

FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

Chunghsin Technology Group CO., LTD

38.5inch HD SMART TV

Model Number: ELSW3917BF

FCC ID: 2AE2W-3917BF1

Prepared for : Chunghsin Technology Group CO., LTD  
No. 618 GONGREN WEST ROAD, JIAOJIANG AREA,  
TAIZHOU CITY, ZHEJIANG, CHINA

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Report Number: ESTE-R1707031  
Date of Test : June 23~July 04, 2017  
Date of Report : July 06, 2017

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## Test Report Verification

<b>Applicant:</b>	Chunghsin Technology Group CO., LTD No. 618 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, ZHEJIANG, CHINA		
<b>Manufacturer</b>	Chunghsin Technology Group CO., LTD No. 618 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, ZHEJIANG, CHINA		
<b>Factory</b>	Chunghsin Technology Group CO., LTD No. 618 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, ZHEJIANG, CHINA		
<b>E.U.T:</b>	38.5inch HD SMART TV		
<b>Model Number:</b>	ELSW3917BF		
<b>Power Supply:</b>	AC 120V;50/60Hz		
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Trade Name:</b>	<b>element</b>	Serial No.:	-----
<b>Date of Receipt:</b>	June 23, 2017	Date of Test:	June 23~July 04, 2017
<b>Test Specification:</b>	FCC Rules and Regulations Part 15 Subpart C:2016 ANSI C63.10:2013		
<b>Test Result:</b>	<p>The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p>		
	Date:	July 06, 2017	
Prepared by:	Tested by:	Approved by:	
<hr/>	<hr/>	<hr/>	
Amy / Assistant	Seven.Wang/ Engineer	IcemanHu / Manager	
<b>Other Aspects:</b> None.			
Abbreviations: OK/P=passed      fail/F=failed      n.a/N=not applicable      E.U.T=equipment under tested			
<i>This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.</i>			

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Product Name	:	38.5inch HD SMART TV
	:	
Model Number	:	ELSW3917BF
	:	
Modulation	:	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM)
	:	
Operation Frequency	:	IEEE 802.11b/g: 2412 ~ 2462 MHz IEEE 802.11n HT20 : 2412 ~ 2462 MHz IEEE 802.11n HT40 : 2422 ~ 2452 MHz
	:	
Number of channel	:	IEEE 802.11b: 11 Channels IEEE 802.11g: 11 Channels IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
	:	
Antenna and Gain	:	PCB Antenna with 1.21dBi gain (Max) Directional gain: 2.04 dBi
	:	

## 2. SUMMARY OF TEST

### 2.1. Summary of test result

Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10:2013	PASS
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10:2013 KDB 558074	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Conducted spurious emissions	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: 558074 D01 DTS Meas Guidance v04, KDB 662911 D02		

## 2.2. Test Facilities

EMC Lab	:	Certificated by CNAL, CHINA Registration No.: L5288 Date of registration: November 13, 2014
		Certificated by FCC, USA Registration No.: 989591 Date of registration: November 20, 2013
		Certificated by Industry Canada Registration No.: 9405A-1 Date of registration: January 03, 2013
		Certificated by VCCI, Japan Registration No.: R-3663 & C-4103 Date of registration: July 25, 2011
		Certificated by TUV Rheinland, Germany Registration No.: UA 50195514 0001 Date of registration: January 07, 2011
		Certificated by TUV/PS, Shenzhen Registration No.: SCN1017 Date of registration: January 27, 2011
		Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L1-18 Date of registration: April 28, 2011
		Certificated by Siemic, Inc. Registration No.: SLCN021 Date of registration: November 8, 2011
		Certificated by Nemko, Hong Kong Registration No.: 175193 Date of registration: May 4, 2011
Name of Firm	:	EST Technology Co., Ltd.
Site Location	:	San Tun Management Zone, Houjie Town, Dongguan, Guangdong, China

### 2.3. Assistant equipment used for test

#### 2.3.1. N/A

### 2.4. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was set into Wifi test mode by software before test.



(EUT: 38.5inch HD SMART TV)

## 2.5. Test mode

A special test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

Test mode	Lower channel	Center channel	Upper channel
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20 Transmitting	2412MHz	2437MHz	2462MHz
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20 Receiving	2412MHz	2437MHz	2462MHz
IEEE 802.11n HT40 Transmitting	2422MHz	2437MHz	2452MHz
IEEE 802.11n HT40 Receiving	2422MHz	2437MHz	2452MHz

## 2.6. Antenna Information

Frequency band	Mode	Antenna TX mode	Support MIMO
2.4 GHz	802.11b,g	<input checked="" type="checkbox"/> 1TX, <input type="checkbox"/> 2TX	<input checked="" type="checkbox"/> No, <input type="checkbox"/> Yes
	802.11n(20 MHz)	<input type="checkbox"/> 1TX, <input checked="" type="checkbox"/> 2TX	<input type="checkbox"/> No, <input checked="" type="checkbox"/> Yes
	802.11n(40 MHz)		

## 2.7. Channel List for wifi

IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462
2	2417	7	2442		
3	2422	8	2447		
4	2427	9	2452		
5	2432	10	2457		
IEEE 802.11n HT40					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2422	4	2437	7	2452
2	2427	5	2442		
3	2432	6	2447		

## 2.8. Test Equipment

### 2.8.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June 17,17	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	101260	June 17,17	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June 17,17	1 Year

### 2.8.2. For radiated emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	101780	June 17,17	1 Year
Bilog Antenna	Teseq	CBL 6111D	37062	June 08,17	1 Year

### 2.8.3. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120D1 002	June 08,17	1 Year
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June 17,17	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June 17,17	1 Year

### 3 POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Limit

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

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

#### 3.3 Test Procedure

The EUT was placed on a non-metallic table, 10cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

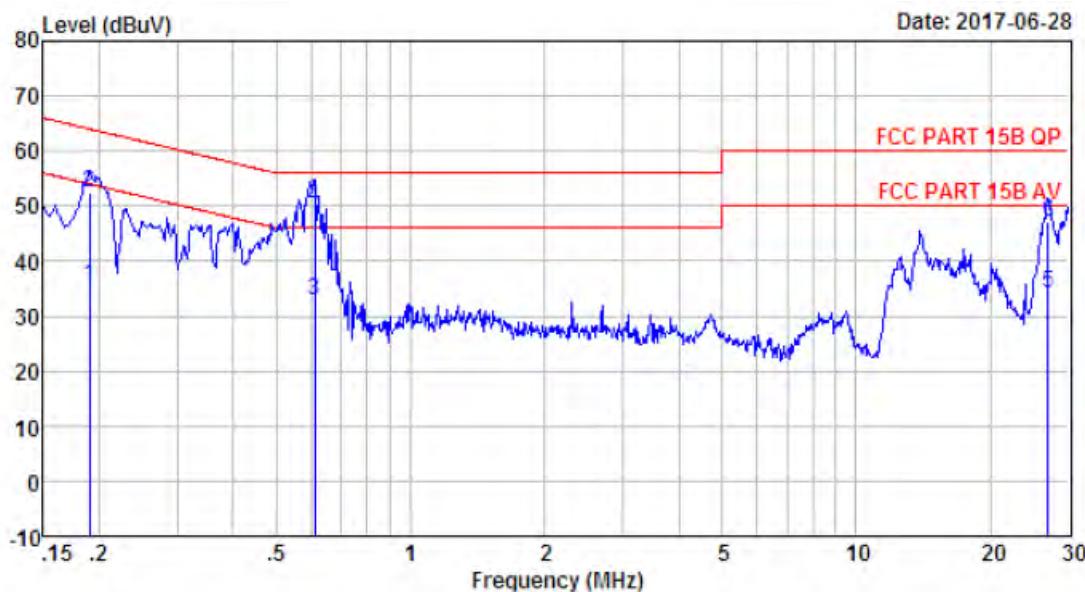
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

#### 3.4. Test Result

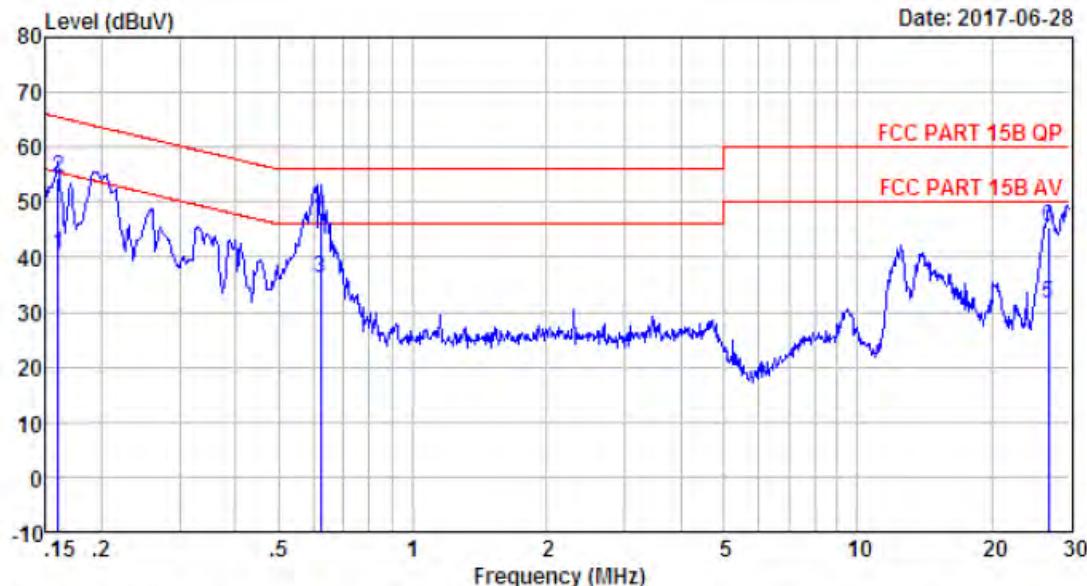
**PASS.** (All emissions not reported below are too low against the prescribed limits.)

### 3.5. Test data



Site no : 2# Contuction Shield Room Data no. : 205  
 Env. / Ins. : Temp:27.3'C Humi:55.5% Press:101.50kPa INE Phase : NEUTRAL  
 Limit : FCC PARI 15B QP  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : TX Mode

	LISN	Cable	Emission				
Freq.	Factor	Loss	Reading	Level	Limit	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.19	9.58	9.80	15.99	35.37	54.02	Average
2	0.19	9.58	9.80	32.99	52.37	64.02	QP
3	0.61	9.61	9.82	13.41	32.84	46.00	Average
4	0.61	9.61	9.82	30.41	49.84	56.00	QP
5	26.98	9.82	10.04	14.42	34.28	50.00	Average
6	26.98	9.82	10.04	27.42	47.28	60.00	QP



Site no : 2# Contuction Shield Room Data no. : 207  
 Env. / Ins. : Temp:27.3'C Humi:55.5% Press:101.50kPa INE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : TX Mode

Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 0.16	9.61	9.81	21.02	40.44	55.47	15.03	Average
2 0.16	9.61	9.81	35.02	54.44	65.47	11.03	QP
3 0.62	9.60	9.82	16.68	36.10	46.00	9.90	Average
4 0.62	9.60	9.82	28.68	48.10	56.00	7.90	QP
5 26.84	9.70	10.04	11.81	31.55	50.00	18.45	Average
6 26.84	9.70	10.04	25.81	45.55	60.00	14.45	QP

## 4 RADIATED EMISSION TEST

### 4.1 Limit

#### 4.1.1 15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

Remark : (1) Emission level  $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

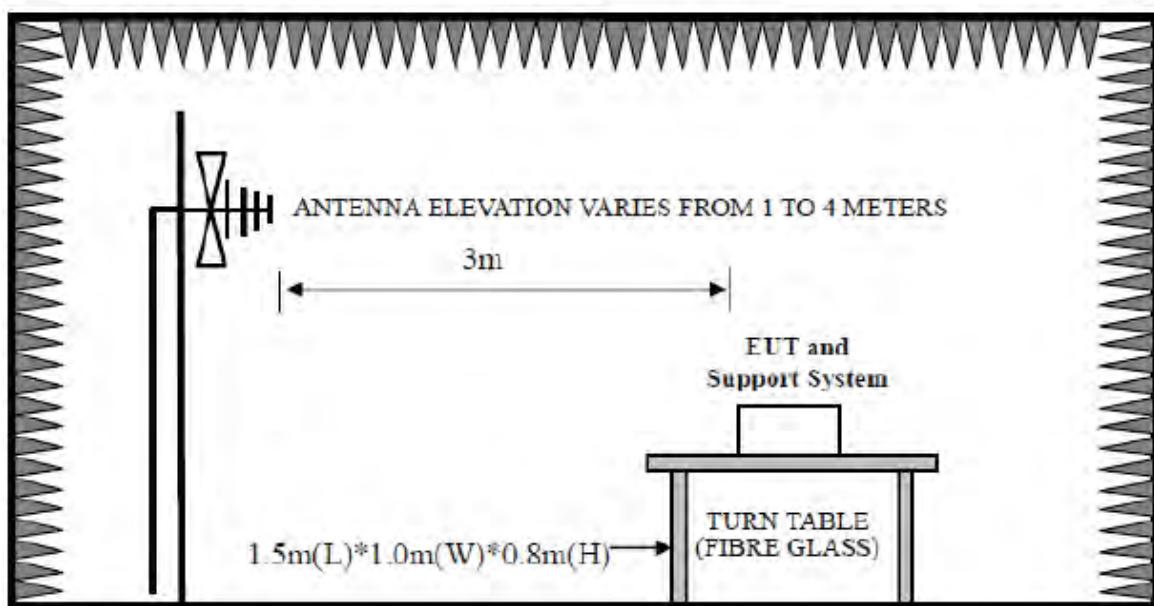
#### 4.1.2 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )

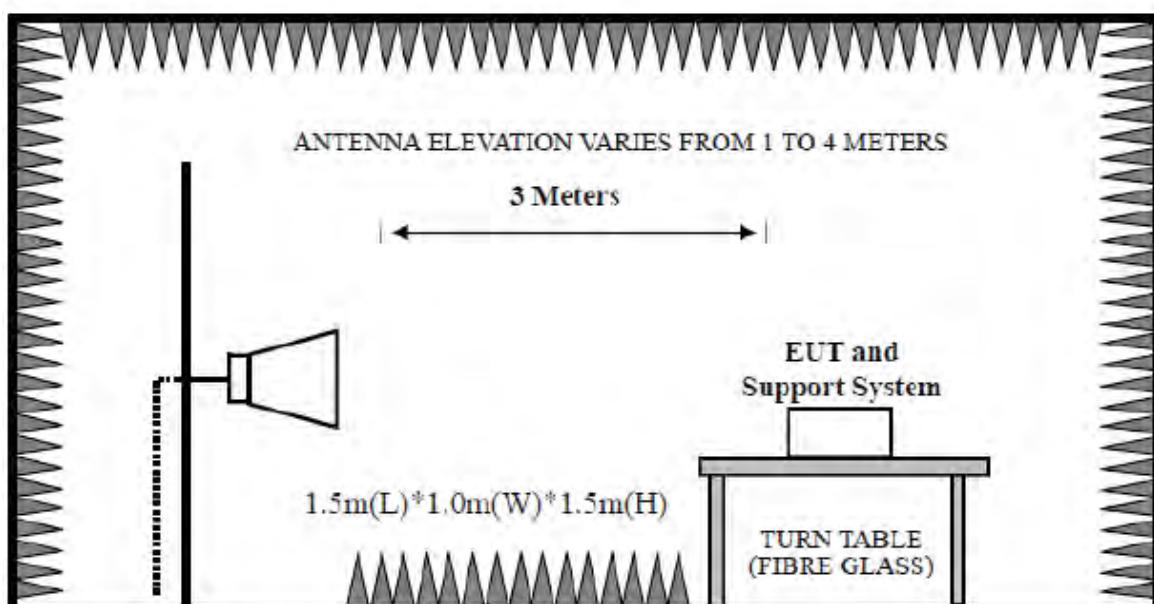
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

#### 4.2. Block Diagram of Test setup

30~1000MHz



Above 1GHz



#### 4.3. Test Procedure

EUT and its simulators are placed on a turn table, which is 1.5 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,

PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10<sup>th</sup> harmonic (25GHz) are checked.

#### 4.4. Test Result

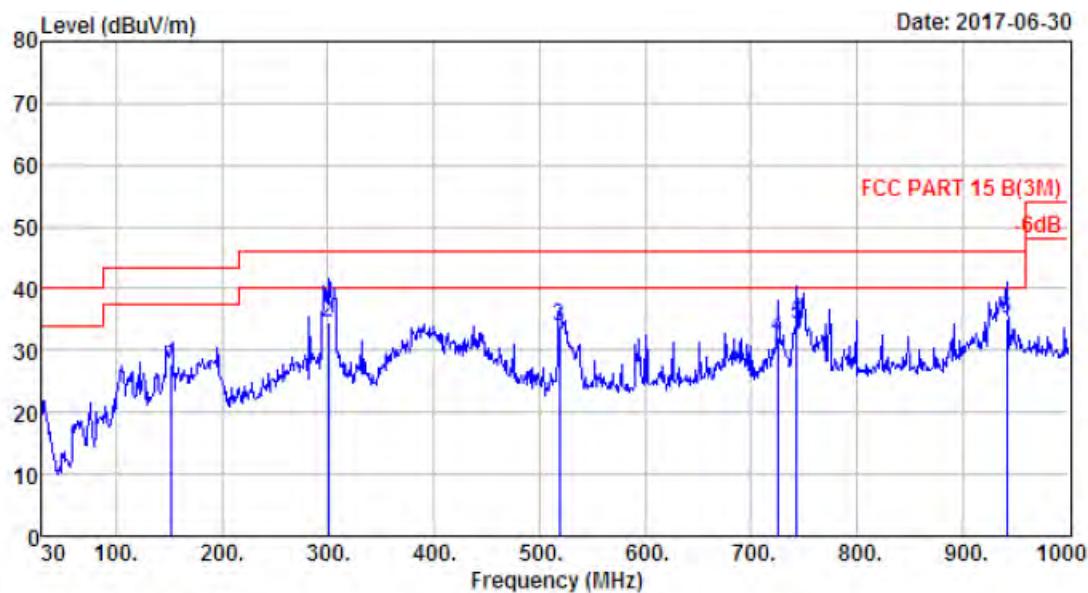
**PASS.**

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

- Note: 1、For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
- 2、The frequency 2412MHz 、2422MHz、 2437MHz、 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

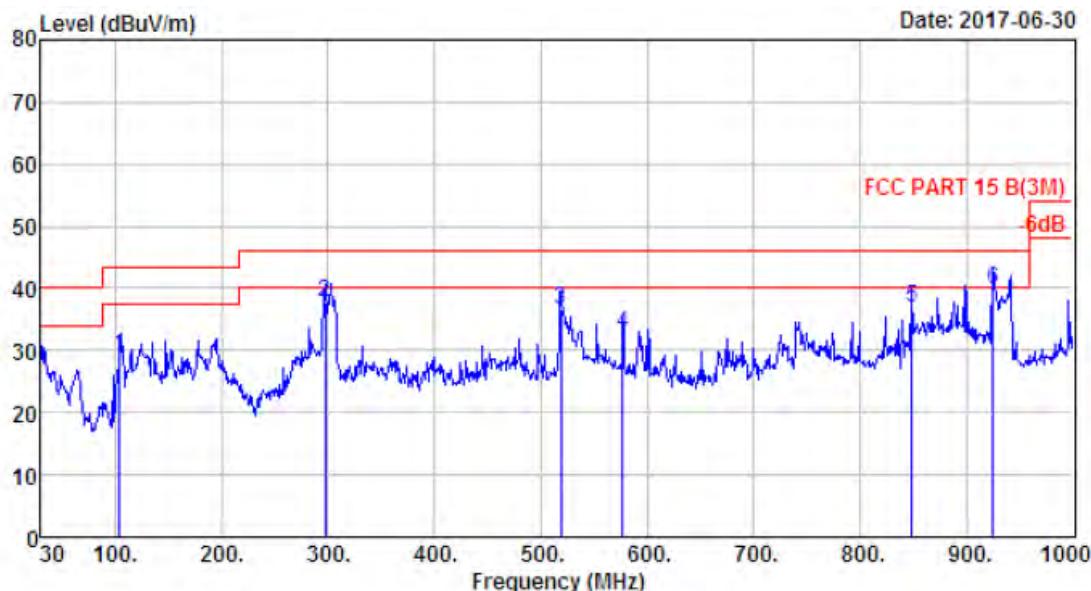
## 4.5. Test Data

30-1000 MHz



Site no. : 1# 966 Chamber Data no. : 1  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:28.6';Humi:48%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 39.5 inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : TX Mode

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 152.22	10.78	1.62	15.33	27.73	43.50	15.77	QP
2 300.63	13.03	2.37	19.21	34.61	46.00	11.39	QP
3 518.88	17.96	3.15	12.80	33.91	46.00	12.09	QP
4 725.49	21.85	3.75	6.48	32.08	46.00	13.92	QP
5 742.95	22.31	3.86	8.21	34.38	46.00	11.62	QP
6 941.80	24.68	4.55	5.80	35.03	46.00	10.97	QP



Site no. : 1# 966 Chamber Data no. : 2  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:28.6';Humi:48%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5 inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : TX Mode

	ANT	Cable	Emission				
Freq.	Factor	Loss	Reading	Level	Limit	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 103.72	9.85	1.39	17.96	29.20	43.50	14.30	QP
2 296.75	12.99	2.32	22.56	37.87	46.00	8.13	QP
3 518.88	17.96	3.15	15.40	36.51	46.00	9.49	QP
4 577.08	19.53	3.30	10.00	32.83	46.00	13.17	QP
5 848.68	22.92	3.73	10.33	36.98	46.00	9.02	QP
6 925.31	24.18	4.50	11.29	39.97	46.00	6.03	QP

## 1000-18000 MHz

Site no. : 1# 966 Chamber Data no. : 185  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH1 2412TX  
 Antenna 0

		Ant.	Cable	Amp	Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2412.00	27.60	6.64	34.64	97.56	97.16	74.00	-23.16 Peak
2	4824.00	31.28	11.84	35.66	41.39	48.85	74.00	25.15 Peak
3	7236.00	36.53	11.55	33.99	29.90	43.99	74.00	30.01 Peak
4	8684.00	37.32	11.45	33.66	30.71	45.82	74.00	28.18 Peak
5	11336.00	39.30	11.04	33.44	28.72	45.62	74.00	28.38 Peak
6	14396.00	41.79	10.92	33.39	28.83	48.15	74.00	25.85 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 186  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH1 2412TX  
 Antenna 0

		Ant.	Cable	Amp	Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2412.00	27.60	6.64	34.64	89.58	89.18	74.00	-15.18 Peak
2	4824.00	31.28	11.84	35.66	42.70	50.16	74.00	23.84 Peak
3	7236.00	36.53	11.55	33.99	31.21	45.30	74.00	28.70 Peak
4	8735.00	37.40	11.45	33.76	32.34	47.43	74.00	26.57 Peak
5	11234.00	39.37	11.12	33.25	29.79	47.03	74.00	26.97 Peak
6	13274.00	39.54	11.47	32.92	30.99	49.08	74.00	24.92 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 187  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH6 2437TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	93.03	92.45	74.00	-18.45	Peak
2	4874.00	31.37	12.07	35.76	39.15	46.83	74.00	27.17	Peak
3	7311.00	36.55	11.57	34.12	31.42	45.42	74.00	28.58	Peak
4	9160.00	38.42	11.49	34.53	31.43	46.81	74.00	27.19	Peak
5	11030.00	39.39	11.14	33.24	31.14	48.43	74.00	25.57	Peak
6	14940.00	41.89	10.93	33.57	28.44	47.69	74.00	26.31	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 188  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH6 2437TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	97.39	96.81	74.00	-22.81	Peak
2	4874.00	31.37	12.07	35.76	43.13	50.81	74.00	23.19	Peak
3	7311.00	36.55	11.57	34.12	35.59	49.59	74.00	24.41	Peak
4	9160.00	37.69	11.54	34.07	30.62	45.78	74.00	28.22	Peak
5	11030.00	39.50	11.27	33.98	29.48	46.27	74.00	27.73	Peak
6	14940.00	40.42	10.87	33.59	29.54	47.24	74.00	26.76	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 189  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH11 2462TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	95.44	94.73	74.00	-20.73	Peak
2	4924.00	31.45	12.29	35.91	39.76	47.59	74.00	26.41	Peak
3	7386.00	36.57	11.59	34.23	32.28	46.21	74.00	27.79	Peak
4	8684.00	37.32	11.45	33.66	31.56	46.67	74.00	27.33	Peak
5	11234.00	39.37	11.12	33.25	30.14	47.38	74.00	26.62	Peak
6	14396.00	41.79	10.92	33.39	28.47	47.79	74.00	26.21	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 190  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH11 2462TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	92.27	91.56	74.00	-17.56	Peak
2	4924.00	31.45	12.29	35.91	32.37	40.20	74.00	33.80	Peak
3	7386.00	36.57	11.59	34.23	30.81	44.74	74.00	29.26	Peak
4	9126.00	37.62	11.52	34.09	29.29	44.34	74.00	29.66	Peak
5	12050.00	38.63	11.37	33.55	27.19	43.64	74.00	30.36	Peak
6	14124.00	41.57	10.91	33.22	27.86	47.12	74.00	26.88	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 191  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH1 2412TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
<hr/>									
1	2412.00	27.60	6.64	34.64	98.19	97.79	74.00	-23.79	Peak
2	4824.00	31.28	11.84	35.66	42.21	49.67	74.00	24.33	Peak
3	7236.00	36.53	11.55	33.99	31.12	45.21	74.00	28.79	Peak
4	8684.00	37.32	11.45	33.66	31.87	46.98	74.00	27.02	Peak
5	11285.00	39.33	11.08	33.32	29.16	46.25	74.00	27.75	Peak
6	14345.00	41.76	10.92	33.39	28.99	48.28	74.00	25.72	Peak

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Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 192  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH1 2412TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
<hr/>									
1	2412.00	27.60	6.64	34.64	91.30	90.90	74.00	-16.90	Peak
2	4824.00	31.28	11.84	35.66	34.79	42.25	74.00	31.75	Peak
3	7236.00	36.53	11.55	33.99	29.69	43.78	74.00	30.22	Peak
4	8650.00	37.27	11.45	33.68	30.65	45.69	74.00	28.31	Peak
5	11234.00	39.37	11.12	33.25	30.47	47.71	74.00	26.29	Peak
6	14056.00	41.51	10.90	33.06	27.99	47.34	74.00	26.66	Peak

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Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 193  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH6 2437TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	94.98	94.40	74.00	-20.40	Peak
2	4874.00	31.37	12.07	35.76	32.77	40.45	74.00	33.55	Peak
3	7311.00	36.55	11.57	34.12	30.61	44.61	74.00	29.39	Peak
4	8684.00	37.32	11.45	33.66	30.71	45.82	74.00	28.18	Peak
5	12390.00	38.73	11.01	33.44	27.44	43.74	74.00	30.26	Peak
6	14226.00	41.66	10.91	33.41	28.07	47.23	74.00	26.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 194  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH6 2437TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	102.28	101.70	74.00	-27.70	Peak
2	4874.00	31.37	12.07	35.76	41.69	49.37	74.00	24.63	Peak
3	7311.00	36.55	11.57	34.12	31.70	45.70	74.00	28.30	Peak
4	9160.00	37.69	11.54	34.07	30.70	45.86	74.00	28.14	Peak
5	11370.00	39.28	11.02	33.51	28.75	45.54	74.00	28.46	Peak
6	13325.00	39.66	11.48	32.94	29.24	47.44	74.00	26.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 195  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH11 2462TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	94.48	93.77	74.00	-19.77	Peak
2	4924.00	31.45	12.29	35.91	37.27	45.10	74.00	28.90	Peak
3	7386.00	36.57	11.59	34.23	32.33	46.26	74.00	27.74	Peak
4	8684.00	37.32	11.45	33.66	30.40	45.51	74.00	28.49	Peak
5	11115.00	39.44	11.20	33.55	30.87	47.96	74.00	26.04	Peak
6	13563.00	40.26	11.42	32.62	28.94	48.00	74.00	26.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 196  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH11 2462TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	91.40	90.69	74.00	-16.69	Peak
2	4924.00	31.45	12.29	35.91	31.85	39.68	74.00	34.32	Peak
3	7386.00	36.57	11.59	34.23	32.28	46.21	74.00	27.79	Peak
4	8684.00	37.32	11.45	33.66	33.00	48.11	74.00	25.89	Peak
5	11166.00	39.41	11.17	33.31	31.15	48.42	74.00	25.58	Peak
6	13274.00	39.54	11.47	32.92	29.04	47.13	74.00	26.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 197  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	100.21	99.81	74.00	-25.81	Peak
2	4824.00	31.28	11.84	35.66	43.88	51.34	74.00	22.66	Peak
3	7236.00	36.53	11.55	33.99	30.18	44.27	74.00	29.73	Peak
4	8684.00	37.32	11.45	33.66	30.68	45.79	74.00	28.21	Peak
5	10775.00	39.28	11.30	34.02	29.84	46.40	74.00	27.60	Peak
6	14124.00	41.57	10.91	33.22	28.53	47.79	74.00	26.21	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 198  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	94.18	93.78	74.00	-19.78	Peak
2	4824.00	31.28	11.84	35.66	32.54	40.00	74.00	34.00	Peak
3	7236.00	36.53	11.55	33.99	31.39	45.48	74.00	28.52	Peak
4	8684.00	37.32	11.45	33.66	31.23	46.34	74.00	27.66	Peak
5	11166.00	39.41	11.17	33.31	29.18	46.45	74.00	27.55	Peak
6	13886.00	41.16	11.04	33.03	28.94	48.11	74.00	25.89	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 199  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT20 CH6 2437TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	95.79	95.21	74.00	-21.21	Peak
2	4874.00	31.37	12.07	35.76	41.00	48.68	74.00	25.32	Peak
3	7311.00	36.55	11.57	34.12	33.76	47.76	74.00	26.24	Peak
4	8684.00	37.32	11.45	33.66	34.01	49.12	74.00	24.88	Peak
5	10520.00	39.00	11.31	34.48	31.42	47.25	74.00	26.75	Peak
6	13954.00	41.35	10.96	32.99	28.54	47.86	74.00	26.14	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 200  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT20 CH6 2437TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	91.79	91.21	74.00	-17.21	Peak
2	4874.00	31.37	12.07	35.76	31.76	39.44	74.00	34.56	Peak
3	7311.00	36.55	11.57	34.12	29.80	43.80	74.00	30.20	Peak
4	8684.00	37.32	11.45	33.66	30.51	45.62	74.00	28.38	Peak
5	10826.00	39.33	11.30	34.00	31.83	48.46	74.00	25.54	Peak
6	14056.00	41.51	10.90	33.06	29.13	48.48	74.00	25.52	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 201  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX  
              Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
<hr/>									
1	2462.00	27.58	6.69	34.98	90.78	90.07	74.00	-16.07	Peak
2	4924.00	31.45	12.29	35.91	32.66	40.49	74.00	33.51	Peak
3	7386.00	36.57	11.59	34.23	31.92	45.85	74.00	28.15	Peak
4	8786.00	37.48	11.46	33.90	30.32	45.36	74.00	28.64	Peak
5	11149.00	39.42	11.18	33.38	29.05	46.27	74.00	27.73	Peak
6	14005.00	41.46	10.90	33.01	27.71	47.06	74.00	26.94	Peak

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Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 202  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX  
              Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
<hr/>									
1	2462.00	27.58	6.69	34.98	95.52	94.81	74.00	-20.81	Peak
2	4924.00	31.45	12.29	35.91	34.33	42.16	74.00	31.84	Peak
3	7386.00	36.57	11.59	34.23	31.39	45.32	74.00	28.68	Peak
4	9126.00	37.62	11.52	34.09	30.44	45.49	74.00	28.51	Peak
5	11200.00	39.39	11.14	33.24	29.46	46.75	74.00	27.25	Peak
6	13376.00	39.78	11.48	32.91	28.10	46.45	74.00	27.55	Peak

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Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 203  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.60	6.66	34.74	85.59	85.11	74.00	-11.11	Peak
2	4904.00	31.42	12.22	35.87	33.55	41.32	74.00	32.68	Peak
3	7356.00	36.56	11.58	34.19	31.00	44.95	74.00	29.05	Peak
4	8684.00	37.32	11.45	33.66	31.73	46.84	74.00	27.16	Peak
5	10384.00	38.77	11.38	34.53	29.49	45.11	74.00	28.89	Peak
6	14124.00	41.57	10.91	33.22	28.73	47.99	74.00	26.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 204  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.60	6.66	34.74	92.16	91.68	74.00	-17.68	Peak
2	4804.00	31.25	11.77	35.64	32.47	39.85	74.00	34.15	Peak
3	7206.00	36.52	11.54	33.95	32.30	46.41	74.00	27.59	Peak
4	8667.00	37.30	11.45	33.67	32.46	47.54	74.00	26.46	Peak
5	11200.00	39.39	11.14	33.24	29.95	47.24	74.00	26.76	Peak
6	13665.00	40.55	11.30	32.75	30.14	49.24	74.00	24.76	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 205  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT40 CH6 2437TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	89.27	88.69	74.00	-14.69	Peak
2	4874.00	31.37	12.07	35.76	33.14	40.82	74.00	33.18	Peak
3	7311.00	36.55	11.57	34.12	29.37	43.37	74.00	30.63	Peak
4	8684.00	37.32	11.45	33.66	31.33	46.44	74.00	27.56	Peak
5	11115.00	39.44	11.20	33.55	29.72	46.81	74.00	27.19	Peak
6	13954.00	41.35	10.96	32.99	29.13	48.45	74.00	25.55	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 206  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT40 CH6 2437TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	99.04	98.46	74.00	-24.46	Peak
2	4874.00	31.37	12.07	35.76	43.08	50.76	74.00	23.24	Peak
3	7311.00	36.55	11.57	34.12	29.65	43.65	74.00	30.35	Peak
4	9177.00	37.72	11.55	34.12	30.55	45.70	74.00	28.30	Peak
5	11234.00	39.37	11.12	33.25	30.11	47.35	74.00	26.65	Peak
6	13920.00	41.26	11.00	33.00	28.72	47.98	74.00	26.02	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 207  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.59	6.67	34.85	93.16	92.57	74.00	-18.57	Peak
2	4904.00	31.42	12.22	35.87	38.64	46.41	74.00	27.59	Peak
3	7356.00	36.56	11.58	34.19	30.06	44.01	74.00	29.99	Peak
4	8684.00	37.32	11.45	33.66	31.12	46.23	74.00	28.86	Peak
5	11336.00	39.30	11.04	33.44	28.57	45.47	74.00	27.21	Peak
6	14056.00	41.51	10.90	33.06	27.78	47.13	74.00	25.76	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 208  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.59	6.67	34.85	90.35	89.76	74.00	-15.76	Peak
2	4904.00	31.42	12.22	35.87	32.80	40.57	74.00	33.43	Peak
3	7356.00	36.56	11.58	34.19	30.86	44.81	74.00	29.19	Peak
4	8684.00	37.32	11.45	33.66	31.12	46.23	74.00	27.77	Peak
5	11336.00	39.30	11.04	33.44	28.57	45.47	74.00	28.53	Peak
6	14056.00	41.51	10.90	33.06	27.78	47.13	74.00	26.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 209  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH1 2412TX  
              Antenna 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	94.55	94.15	74.00	-20.15	Peak
2	4824.00	31.28	11.84	35.66	40.13	47.59	74.00	26.41	Peak
3	7236.00	36.53	11.55	33.99	31.23	45.32	74.00	28.68	Peak
4	9109.00	37.59	11.51	34.10	31.34	46.34	74.00	27.66	Peak
5	10996.00	39.52	11.29	34.11	29.43	46.13	74.00	27.87	Peak
6	13954.00	41.35	10.96	32.99	28.15	47.47	74.00	26.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 210  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH1 2412TX  
              Antenna 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	85.92	85.52	74.00	-11.52	Peak
2	4824.00	31.28	11.84	35.66	39.08	46.54	74.00	27.46	Peak
3	7236.00	36.53	11.55	33.99	31.60	45.69	74.00	28.31	Peak
4	8650.00	37.27	11.45	33.68	31.33	46.37	74.00	27.63	Peak
5	11183.00	39.40	11.15	33.24	29.56	46.87	74.00	27.13	Peak
6	14124.00	41.57	10.91	33.22	27.51	46.77	74.00	27.23	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 211  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH6 2437TX  
 Antenna 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	92.54	91.96	74.00	-17.96	Peak
2	4874.00	31.37	12.07	35.76	42.44	50.12	74.00	23.88	Peak
3	7311.00	36.55	11.57	34.12	32.64	46.64	74.00	27.36	Peak
4	8650.00	37.27	11.45	33.68	30.79	45.83	74.00	28.17	Peak
5	11064.00	39.48	11.24	33.83	28.95	45.84	74.00	28.16	Peak
6	13954.00	41.35	10.96	32.99	29.13	48.45	74.00	25.55	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 212  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH6 2437TX  
 Antenna 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	89.88	89.30	74.00	-15.30	Peak
2	4874.00	31.37	12.07	35.76	34.96	42.64	74.00	31.36	Peak
3	7311.00	36.55	11.57	34.12	30.10	44.10	74.00	29.90	Peak
4	8650.00	37.27	11.45	33.68	31.04	46.08	74.00	27.92	Peak
5	9755.00	38.13	11.65	35.10	31.00	45.68	74.00	28.32	Peak
6	14464.00	41.85	10.93	33.45	28.88	48.21	74.00	25.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 213  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH11 2462TX  
 Antenna 1

		Ant.	Cable	Amp	Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.00	27.58	6.69	34.98	89.62	88.91	74.00	-14.91 Peak
2	4924.00	31.45	12.29	35.91	34.89	42.72	74.00	31.28 Peak
3	7386.00	36.57	11.59	34.23	30.22	44.15	74.00	29.85 Peak
4	8684.00	37.32	11.45	33.66	29.46	44.57	74.00	29.43 Peak
5	11064.00	39.48	11.24	33.83	27.49	44.38	74.00	29.62 Peak
6	13835.00	41.02	11.10	33.06	28.59	47.65	74.00	26.35 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 214  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH11 2462TX  
 Antenna 1

		Ant.	Cable	Amp	Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.00	27.58	6.69	34.98	94.26	93.55	74.00	-19.55 Peak
2	4924.00	31.45	12.29	35.91	37.85	45.68	74.00	28.32 Peak
3	7386.00	36.57	11.59	34.23	33.67	47.60	74.00	26.40 Peak
4	8684.00	37.32	11.45	33.66	29.81	44.92	74.00	29.08 Peak
5	11234.00	39.37	11.12	33.25	28.90	46.14	74.00	27.86 Peak
6	14294.00	41.71	10.92	33.42	27.56	46.77	74.00	27.23 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 215  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH1 2412TX  
 Antenna 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	89.35	88.95	74.00	-14.95	Peak
2	4824.00	31.28	11.84	35.66	32.91	40.37	74.00	33.63	Peak
3	7236.00	36.53	11.55	33.99	30.36	44.45	74.00	29.55	Peak
4	9160.00	37.69	11.54	34.07	30.47	45.63	74.00	28.37	Peak
5	11404.00	39.25	10.99	33.57	28.20	44.87	74.00	29.13	Peak
6	14005.00	41.46	10.90	33.01	28.84	48.19	74.00	25.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 216  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH1 2412TX  
 Antenna 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	94.10	93.70	74.00	-19.70	Peak
2	4824.00	31.28	11.84	35.66	43.29	50.75	74.00	23.25	Peak
3	7236.00	36.53	11.55	33.99	29.89	43.98	74.00	30.02	Peak
4	8684.00	37.32	11.45	33.66	30.13	45.24	74.00	28.76	Peak
5	10996.00	39.52	11.29	34.11	28.33	45.03	74.00	28.97	Peak
6	14124.00	41.57	10.91	33.22	28.64	47.90	74.00	26.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 217  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH6 2437TX  
              Antenna 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	89.75	89.17	74.00	-15.17	Peak
2	4874.00	31.37	12.07	35.76	32.23	39.91	74.00	34.09	Peak
3	7311.00	36.55	11.57	34.12	31.71	45.71	74.00	28.29	Peak
4	9126.00	37.62	11.52	34.09	32.57	47.62	74.00	26.38	Peak
5	11285.00	39.33	11.08	33.32	30.73	47.82	74.00	26.18	Peak
6	13954.00	41.35	10.96	32.99	29.48	48.80	74.00	25.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 218  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH6 2437TX  
              Antenna 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	94.00	93.42	74.00	-19.42	Peak
2	4874.00	31.37	12.07	35.76	39.56	47.24	74.00	26.76	Peak
3	7311.00	36.55	11.57	34.12	31.80	45.80	74.00	28.20	Peak
4	8684.00	37.32	11.45	33.66	30.68	45.79	74.00	28.21	Peak
5	10996.00	39.52	11.29	34.11	30.45	47.15	74.00	26.85	Peak
6	13614.00	40.40	11.36	32.68	29.11	48.19	74.00	25.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 219  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH11 2462TX  
               Antenna 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	94.03	93.32	74.00	-19.32	Peak
2	4924.00	31.45	12.29	35.91	34.90	42.73	74.00	31.27	Peak
3	7386.00	36.57	11.59	34.23	32.94	46.87	74.00	27.13	Peak
4	8684.00	37.32	11.45	33.66	31.45	46.56	74.00	27.44	Peak
5	11251.00	39.35	11.10	33.25	28.83	46.03	74.00	27.97	Peak
6	14056.00	41.51	10.90	33.06	29.35	48.70	74.00	25.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 220  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH11 2462TX  
               Antenna 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	89.54	88.83	74.00	-14.83	Peak
2	4924.00	31.45	12.29	35.91	32.61	40.44	74.00	33.56	Peak
3	7386.00	36.57	11.59	34.23	32.39	46.32	74.00	27.68	Peak
4	8684.00	37.32	11.45	33.66	32.34	47.45	74.00	26.55	Peak
5	10996.00	39.52	11.29	34.11	30.05	46.75	74.00	27.25	Peak
6	14124.00	41.57	10.91	33.22	28.17	47.43	74.00	26.57	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

**18000MHz – 25000MHz**

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

## 5 BAND EDGE COMPLIANCE TEST

### 5.1 Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits

### 5.2 Test Procedure

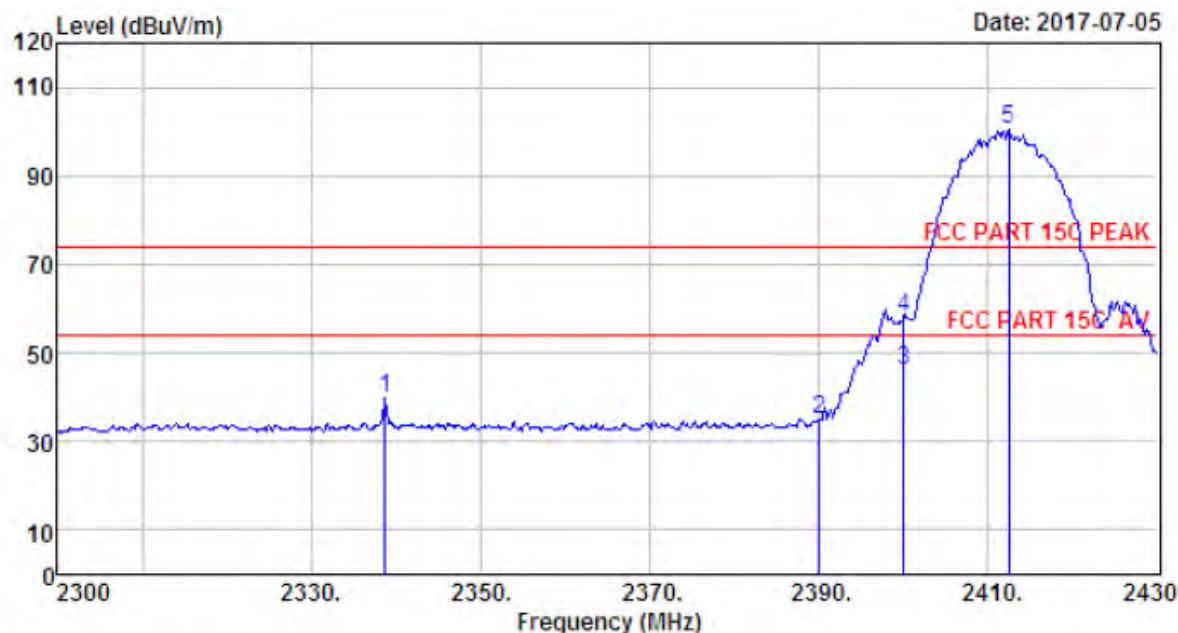
1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
  - (a) Peak : RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto
  - (b) AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto

### 5.3 Test Result

Pass (The testing data was attached in the next pages.)

- Note:
- 1、For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
  - 2、The frequency 2412MHz, 2422MHz, 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

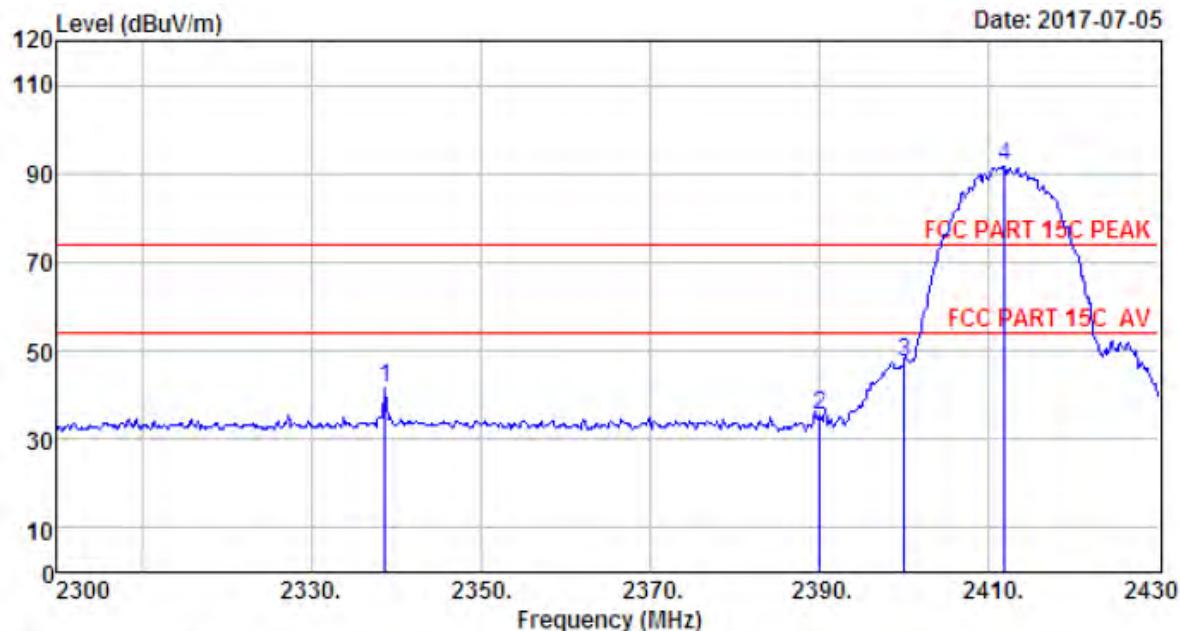
## 5.4 Test Data



Site no. : 1# 966 Chamber Data no. : 221  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH1 2412TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2338.74	27.73	6.56	34.59	40.26	39.96	74.00	34.04	Peak
2	2390.00	27.64	6.62	34.62	35.15	34.79	74.00	39.21	Peak
3	2400.00	27.61	6.62	34.64	46.47	46.06	54.00	7.94	Average
4	2400.00	27.61	6.62	34.64	58.47	58.06	74.00	15.94	Peak
5	2412.45	27.60	6.64	34.64	100.99	100.59	74.00	-26.59	Peak

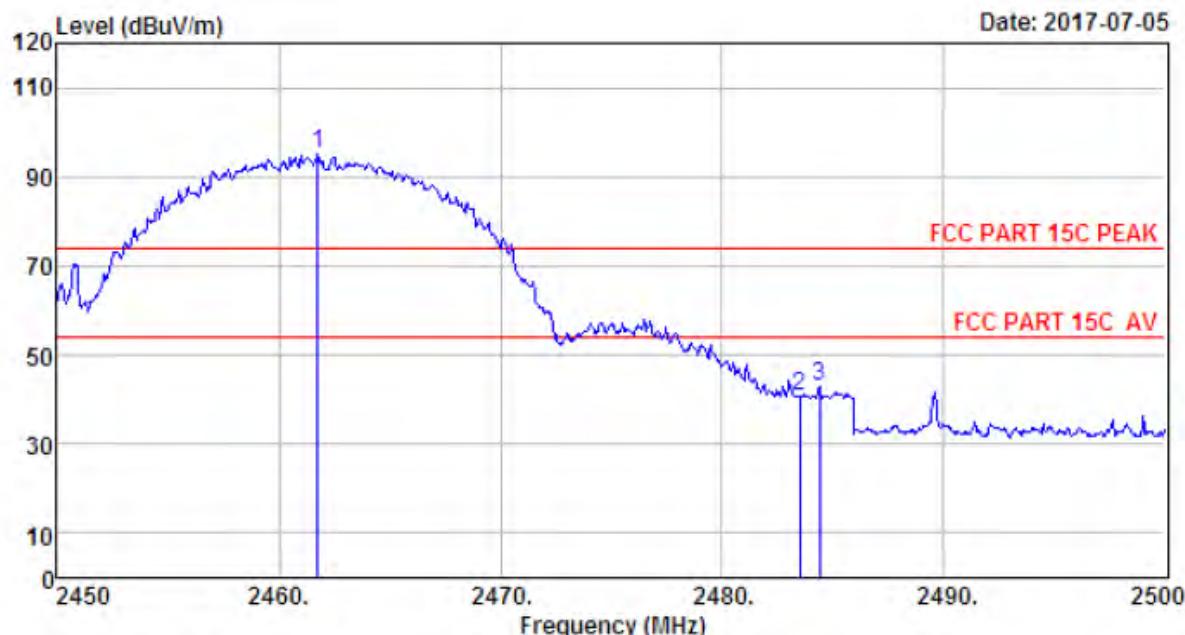
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 222  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH1 2412TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2338.74	27.73	6.56	34.59	41.81	41.51	74.00	32.49	Peak
2	2390.00	27.64	6.62	34.62	35.81	35.45	74.00	38.55	Peak
3	2400.00	27.61	6.62	34.64	47.94	47.53	74.00	26.47	Peak
4	2411.80	27.60	6.64	34.64	92.14	91.74	74.00	-17.74	Peak

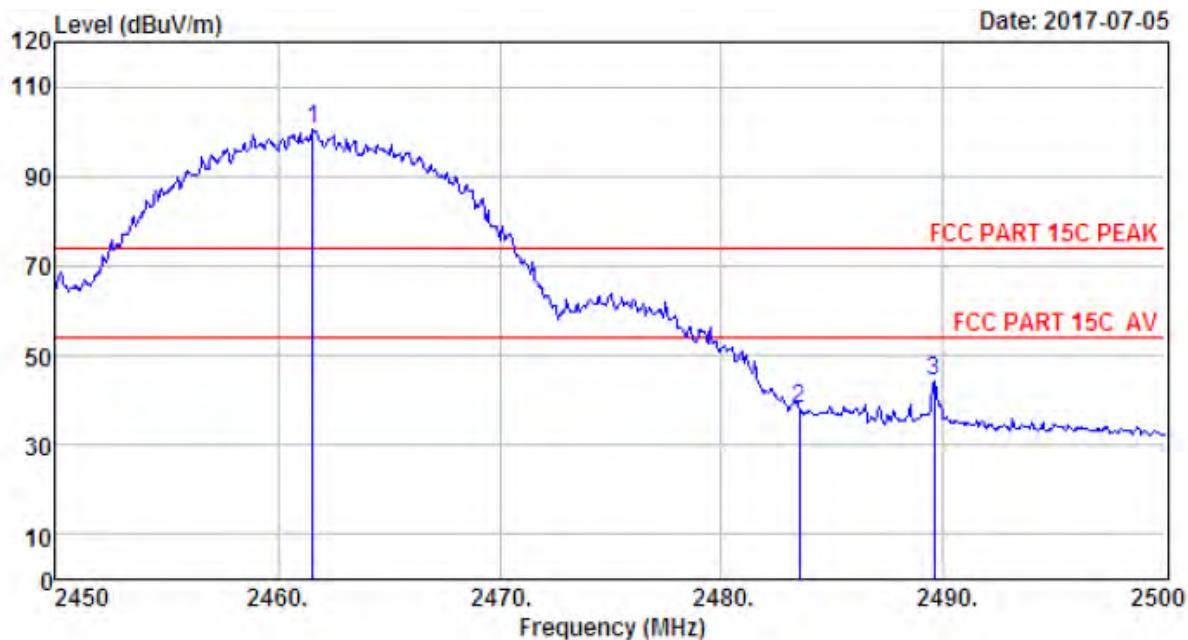
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 223  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH11 2462TX  
 Antenna 0

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2461.75	27.58	6.69	34.98	95.75	95.04	74.00	-21.04	Peak	
2 2483.50	27.58	6.71	35.11	41.37	40.55	74.00	33.45	Peak	
3 2484.40	27.58	6.71	35.11	43.61	42.79	74.00	31.21	Peak	

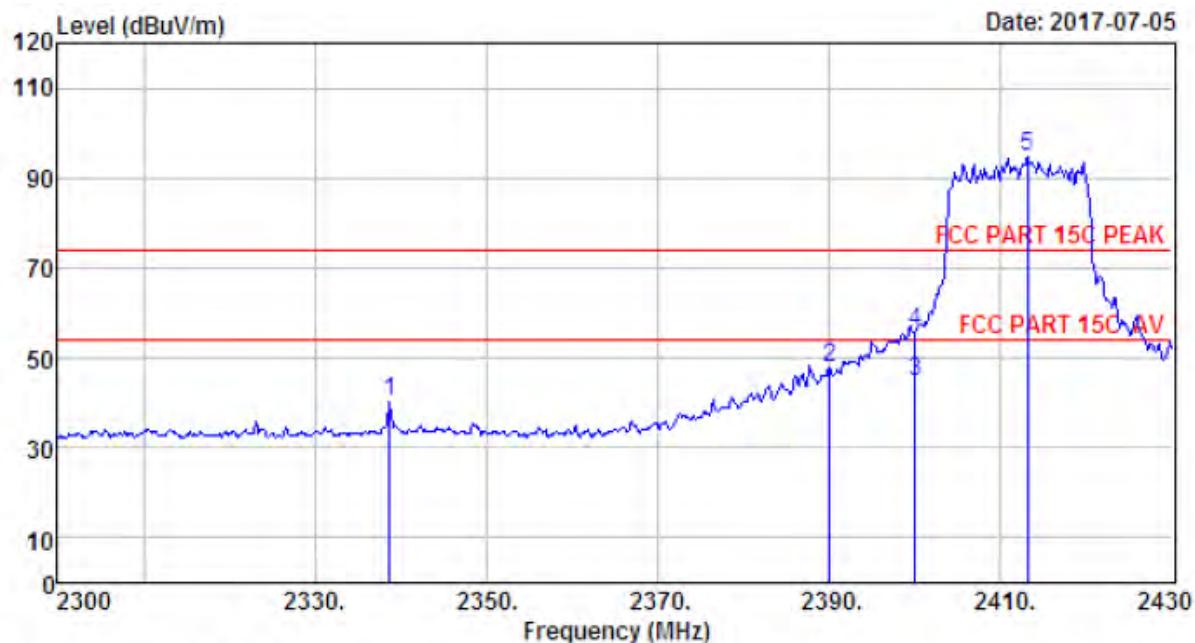
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 224  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH11 2462TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.60	27.58	6.69	34.98	101.23	100.52	74.00	-26.52	Peak
2	2483.50	27.58	6.71	35.11	38.86	38.04	74.00	35.96	Peak
3	2489.60	27.58	6.73	35.24	45.21	44.28	74.00	29.72	Peak

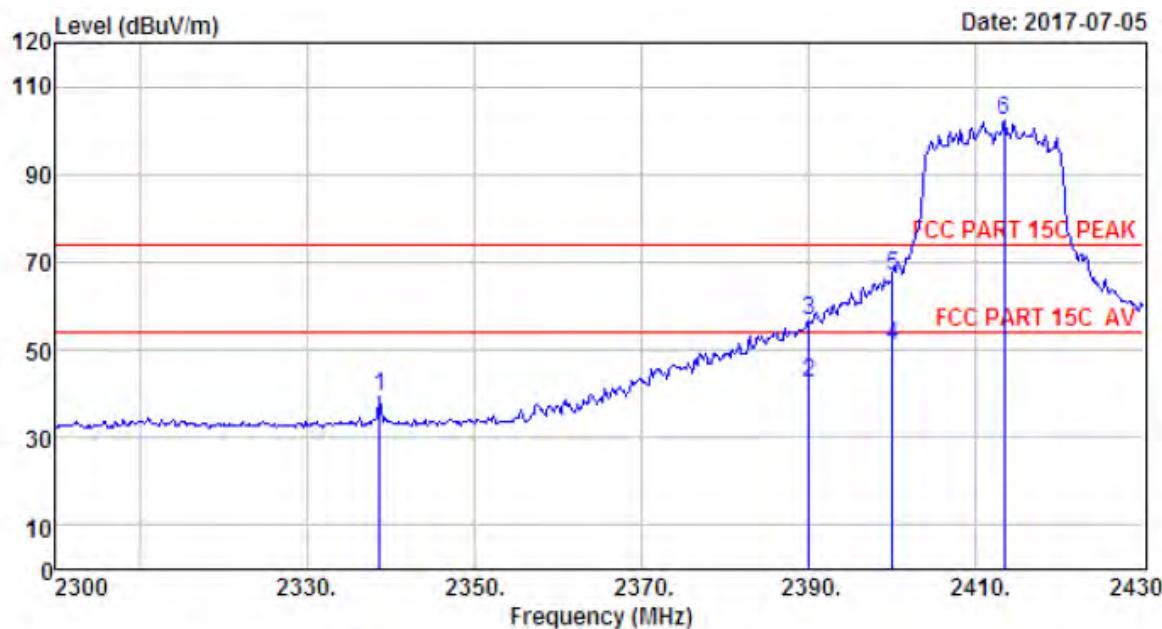
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 225  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH1 2412TX  
 Antenna 0

Freq. (MHz)	Ant.	Cable	Amp	Emission				Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2338.74	27.73	6.56	34.59	40.65	40.35	74.00	33.65	Peak	
2 2390.00	27.64	6.62	34.62	48.13	47.77	74.00	26.23	Peak	
3 2400.00	27.61	6.62	34.64	45.16	44.75	54.00	9.25	Average	
4 2400.00	27.61	6.62	34.64	56.16	55.75	74.00	18.25	Peak	
5 2413.10	27.60	6.64	34.64	95.12	94.72	74.00	-20.72	Peak	

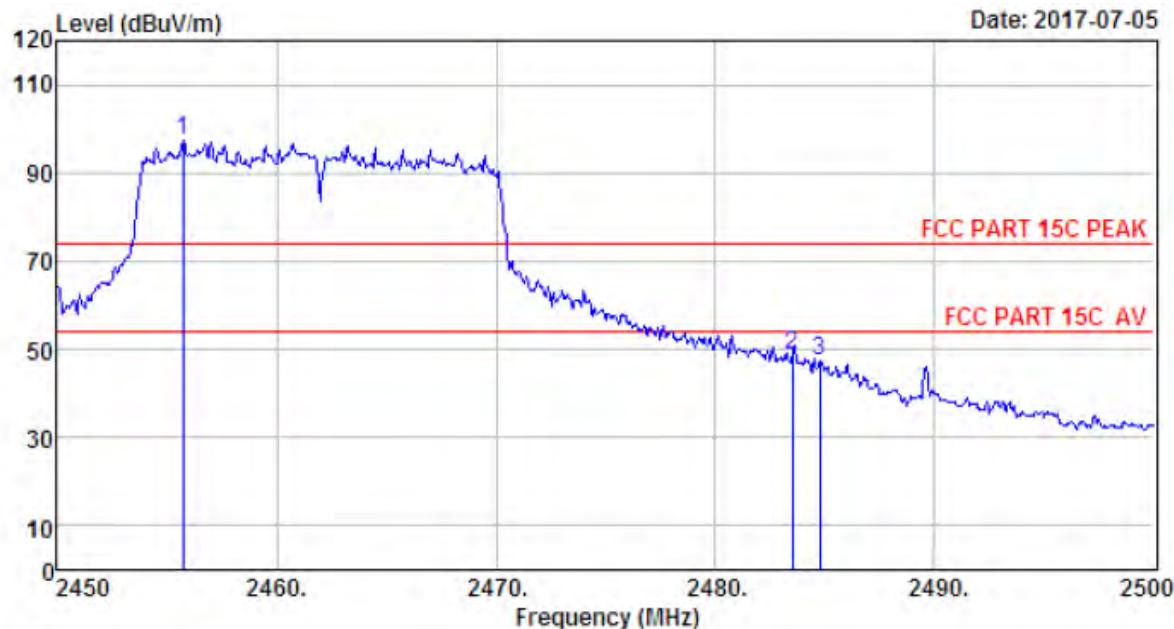
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 226  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH1 2412TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2338.74	27.73	6.56	34.59	39.69	39.39	74.00	34.61	Peak
2	2390.00	27.64	6.62	34.62	42.83	42.47	54.00	11.53	Average
3	2390.00	27.64	6.62	34.62	56.83	56.47	74.00	17.53	Peak
4	2400.00	27.61	6.62	34.64	51.12	50.71	54.00	3.29	Average
5	2400.00	27.61	6.62	34.64	67.12	66.71	74.00	7.29	Peak
6	2413.36	27.60	6.64	34.64	102.54	102.14	74.00	-28.14	Peak

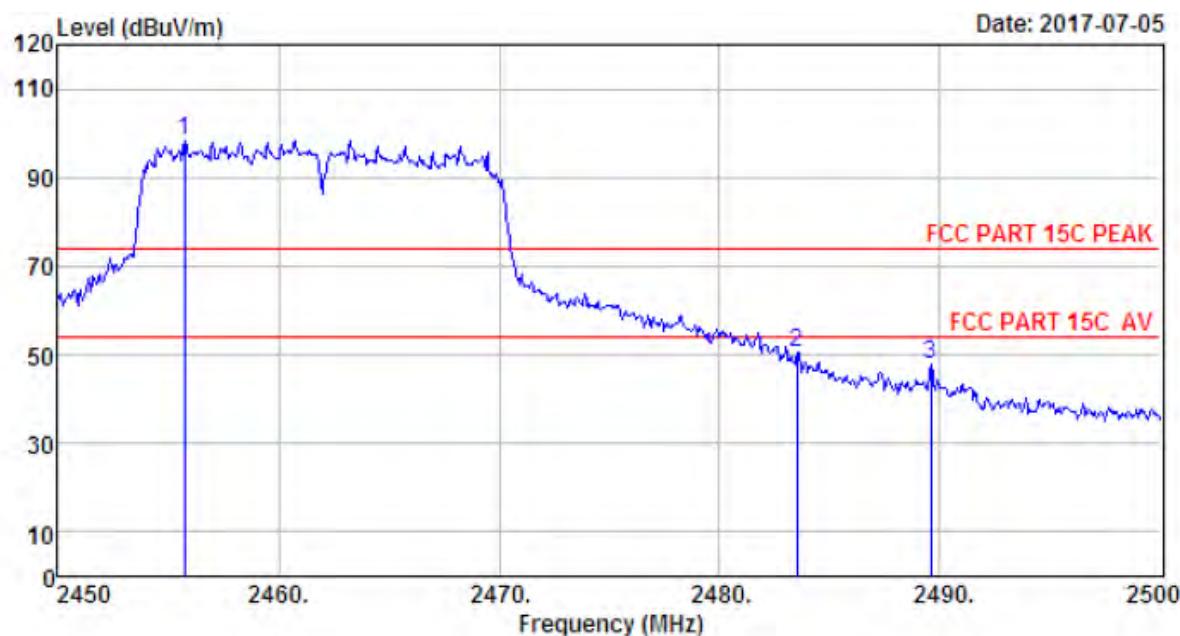
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 227  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH11 2462TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.75	27.59	6.69	34.98	97.98	97.28	74.00	-23.28	Peak
2	2483.50	27.58	6.71	35.11	49.45	48.63	74.00	25.37	Peak
3	2484.75	27.58	6.71	35.11	48.23	47.41	74.00	26.59	Peak

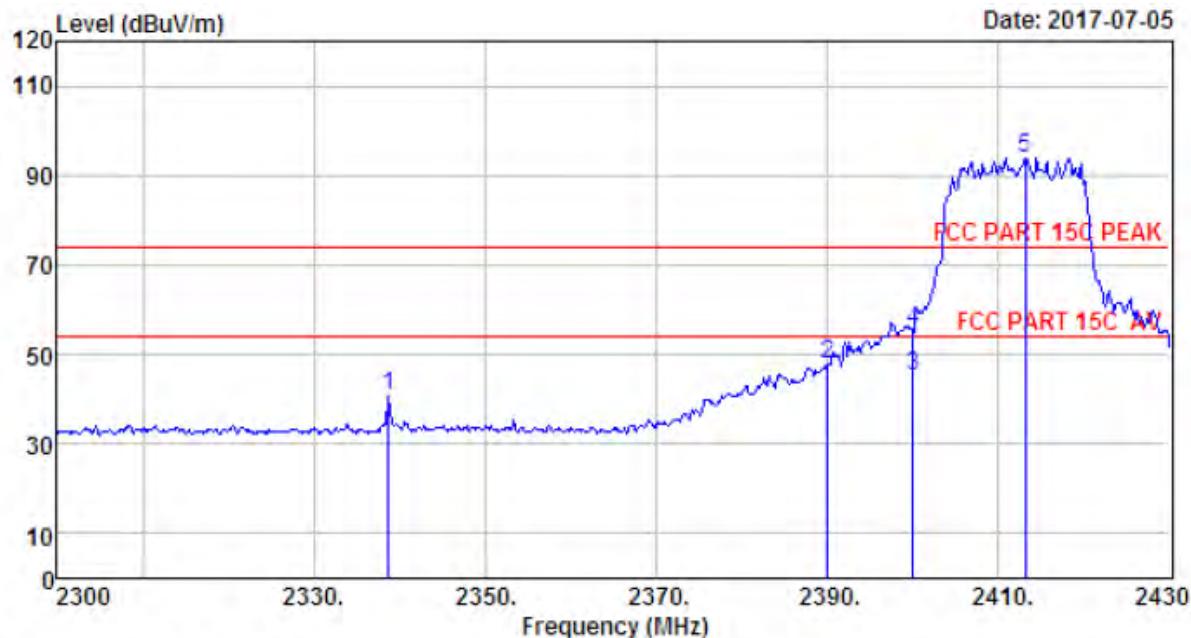
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 228  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH11 2462TX  
 Antenna 0

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.75	27.59	6.69	34.98	99.19	98.49	74.00	-24.49	Peak
2	2483.50	27.58	6.71	35.11	51.34	50.52	74.00	23.48	Peak
3	2489.60	27.58	6.73	35.24	48.71	47.78	74.00	26.22	Peak

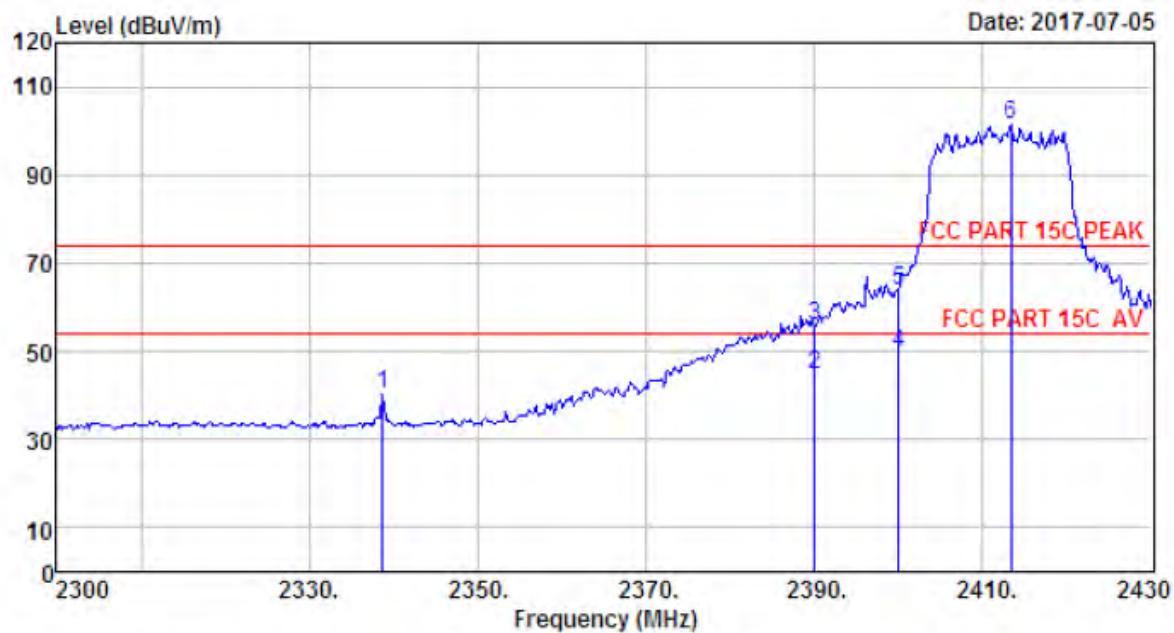
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 229  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX  
 Antenna 0+1

Freq. (MHz)	Ant.	Cable	Amp	Emission				Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2338.74	27.73	6.56	34.59	41.04	40.74	74.00	33.26	Peak	
2 2390.00	27.64	6.62	34.62	48.40	48.04	74.00	25.96	Peak	
3 2400.00	27.61	6.62	34.64	45.76	45.35	54.00	8.65	Average	
4 2400.00	27.61	6.62	34.64	55.76	55.35	74.00	18.65	Peak	
5 2413.10	27.60	6.64	34.64	94.27	93.87	74.00	-19.87	Peak	

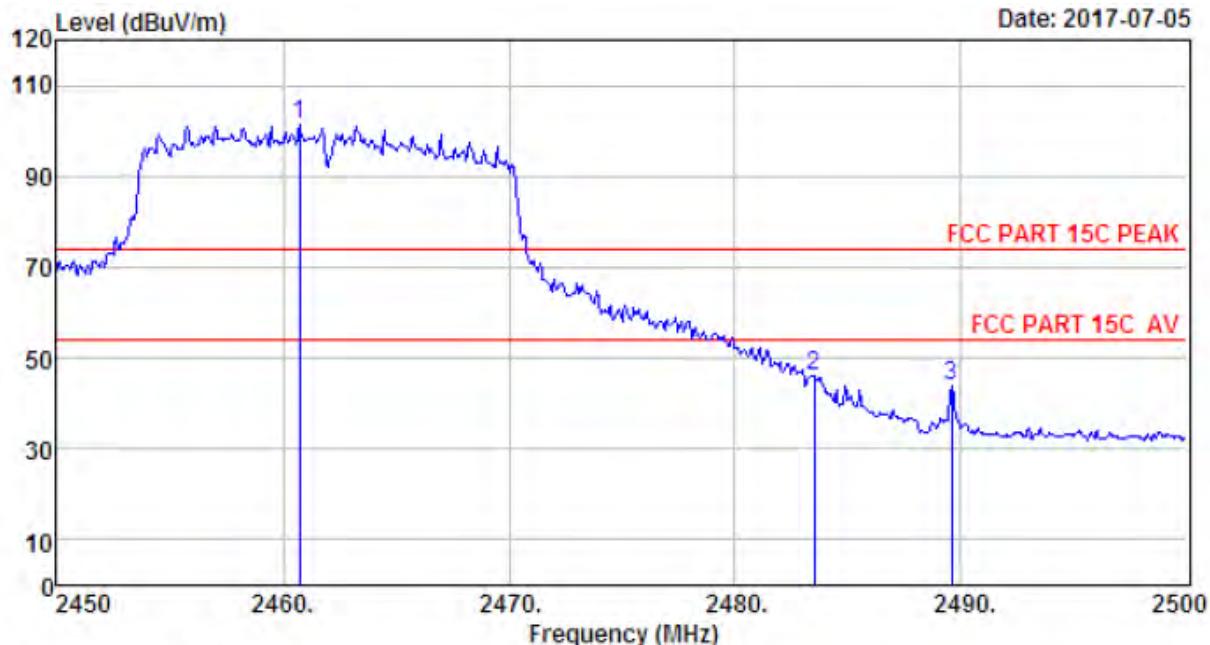
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading,  
 2. The emission levels that are 20dB below the official  
 limit are not reported.



Site no. : 1# 966 Chamber Data no. : 230  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 36.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2338.74	27.73	6.56	34.59	40.64	40.34	74.00	33.66	Peak
2	2390.00	27.64	6.62	34.62	45.14	44.78	54.00	9.22	Average
3	2390.00	27.64	6.62	34.62	56.14	55.78	74.00	18.22	Peak
4	2400.00	27.61	6.62	34.64	50.12	49.71	54.00	4.29	Average
5	2400.00	27.61	6.62	34.64	64.12	63.71	74.00	10.29	Peak
6	2413.36	27.60	6.64	34.64	101.75	101.35	74.00	-27.35	Peak

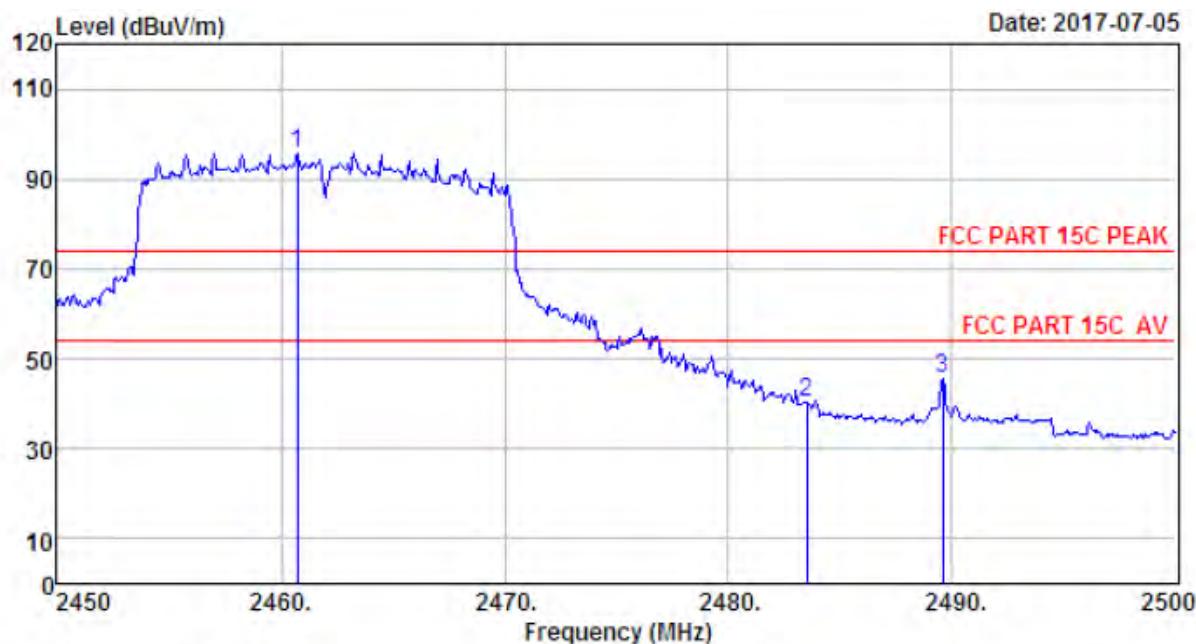
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 231  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.75	27.58	6.69	34.98	102.13	101.42	74.00	-27.42	Peak
2	2483.50	27.58	6.71	35.11	46.81	45.99	74.00	28.01	Peak
3	2489.60	27.58	6.73	35.24	44.96	44.03	74.00	29.97	Peak

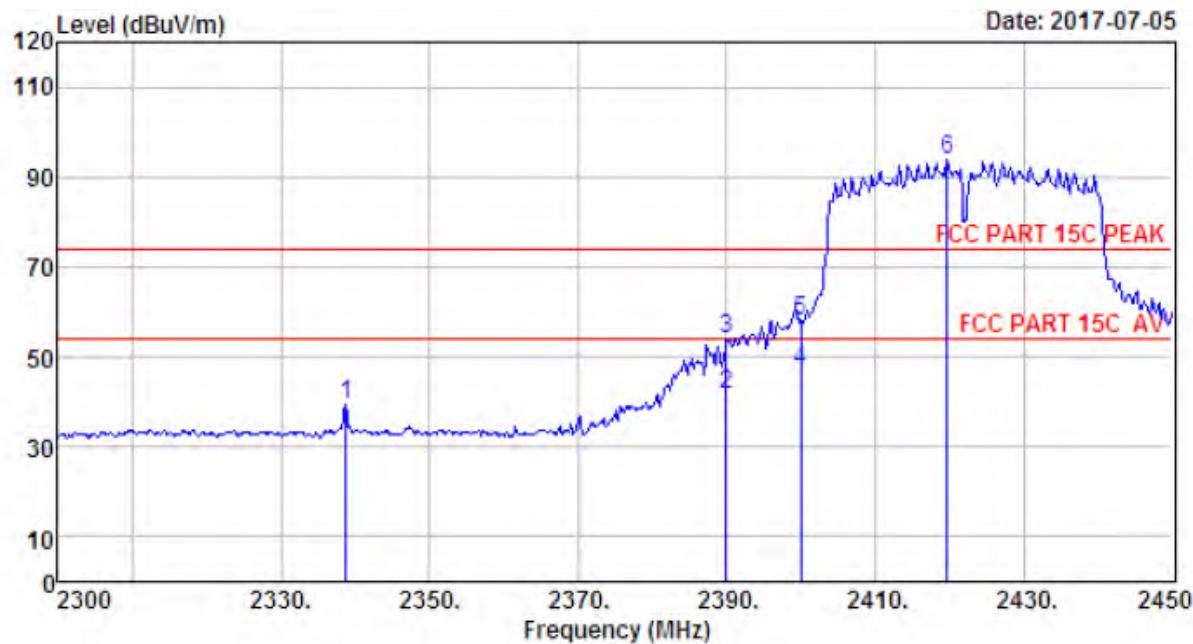
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 232  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX  
 Antenna 0+1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2460.75	27.58	6.69	34.98	96.57	95.86	74.00	-21.86	Peak
2 2483.50	27.58	6.71	35.11	41.18	40.36	74.00	33.64	Peak
3 2489.60	27.58	6.73	35.24	46.55	45.62	74.00	28.38	Peak

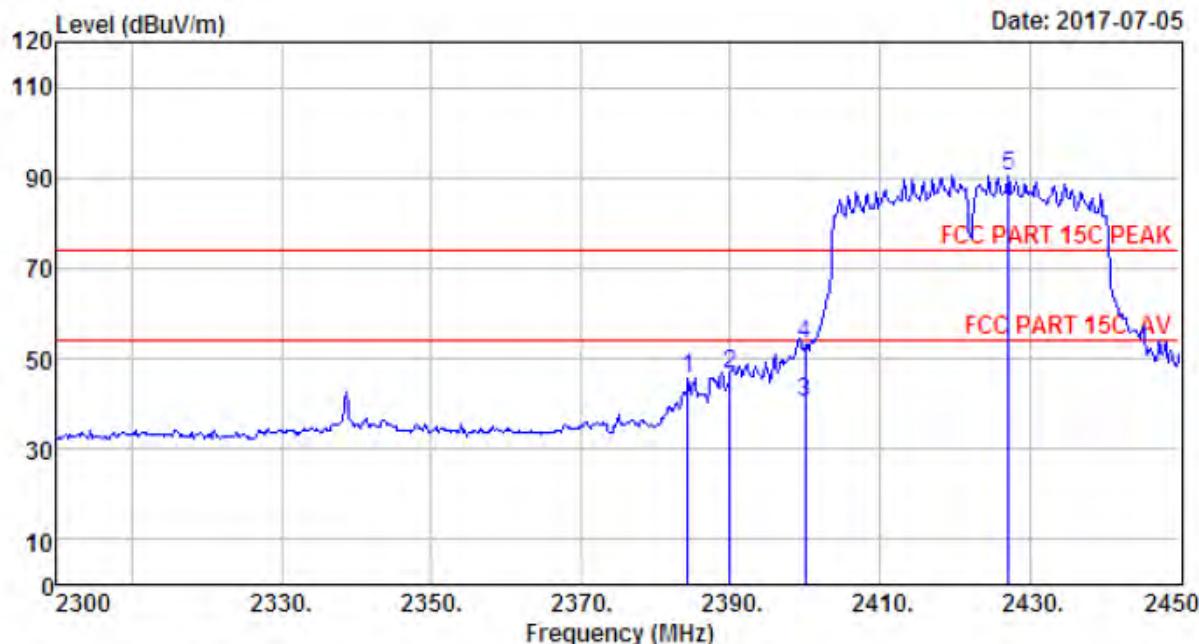
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 233  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX  
 Antenna 0+1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2338.70	27.73	6.56	34.59	39.87	39.57	74.00	34.43	Peak	
2 2390.00	27.64	6.62	34.62	42.19	41.83	54.00	12.17	Average	
3 2390.00	27.64	6.62	34.62	54.19	53.83	74.00	20.17	Peak	
4 2400.00	27.61	6.62	34.64	47.50	47.09	54.00	6.91	Average	
5 2400.00	27.61	6.62	34.64	58.50	58.09	74.00	15.91	Peak	
6 2419.70	27.60	6.66	34.74	94.51	94.03	74.00	-20.03	Peak	

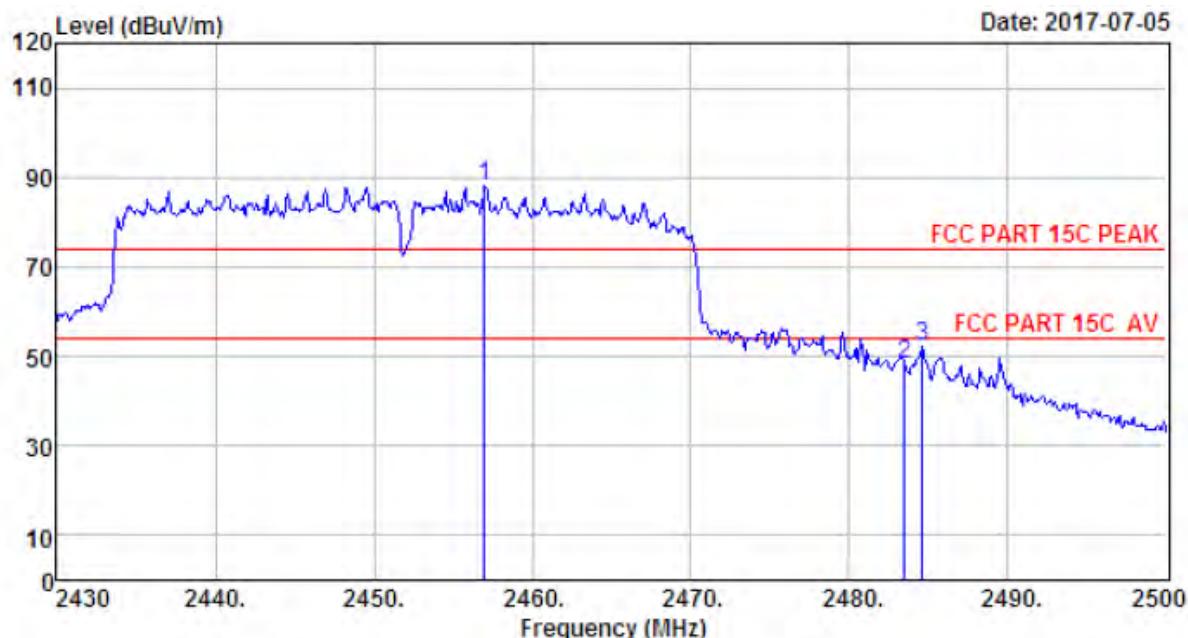
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 234  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX  
 Antenna 0+1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission				Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 2384.30	27.64	6.60	34.62	46.19	45.81	74.00	28.19	Peak	
2 2390.00	27.64	6.62	34.62	47.02	46.66	74.00	27.34	Peak	
3 2400.00	27.61	6.62	34.64	40.51	40.10	54.00	13.90	Average	
4 2400.00	27.61	6.62	34.64	53.51	53.10	74.00	20.90	Peak	
5 2427.20	27.60	6.66	34.74	90.87	90.39	74.00	-16.39	Peak	

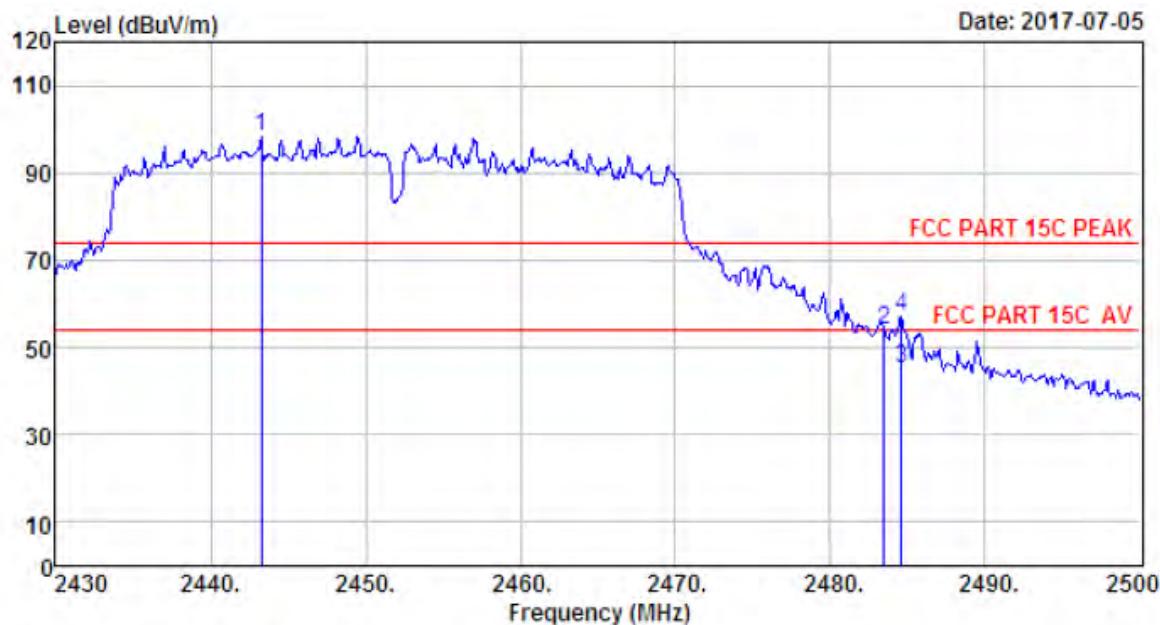
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 235  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX  
 Antenna 0+1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2456.95	27.59	6.69	34.98	88.77	88.07	74.00	-14.07	Peak
2	2483.50	27.58	6.71	35.11	49.27	48.45	74.00	25.55	Peak
3	2484.60	27.58	6.71	35.11	52.86	52.04	74.00	21.96	Peak

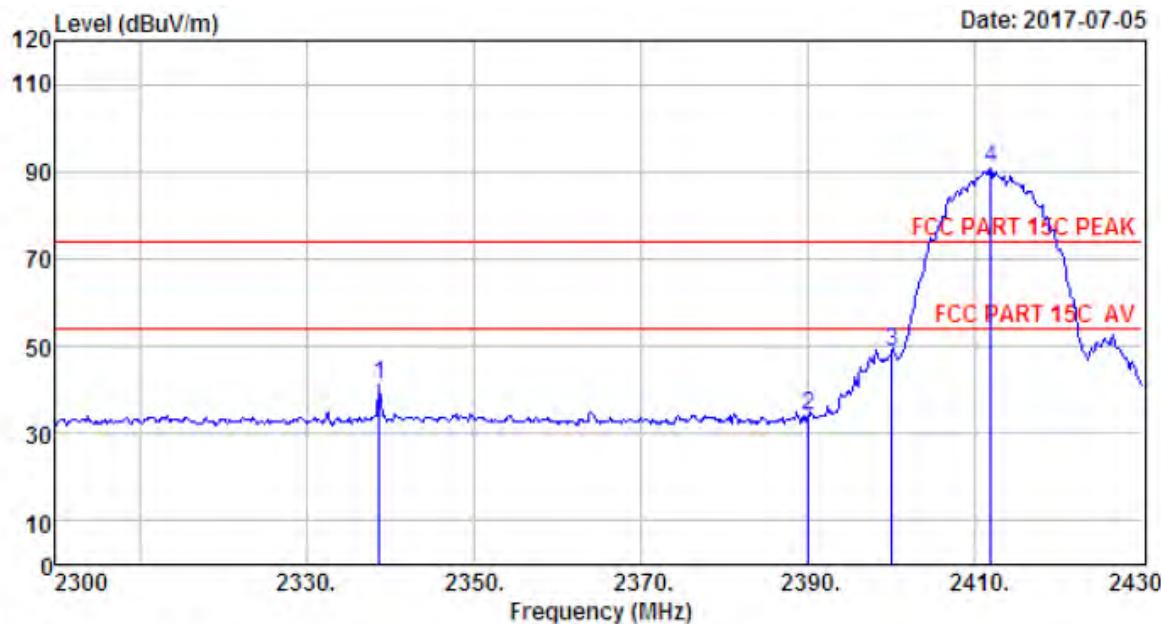
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 236  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX  
 Antenna 0+1

	Ant.	Cable	Amp	Emission					
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1 2443.30	27.59	6.67	34.85	98.89	98.30	74.00	-24.30	Peak	
2 2483.50	27.58	6.71	35.11	54.90	54.08	74.00	19.92	Peak	
3 2484.60	27.58	6.71	35.11	45.97	45.15	54.00	8.85	Average	
4 2484.60	27.58	6.71	35.11	57.97	57.15	74.00	16.85	Peak	

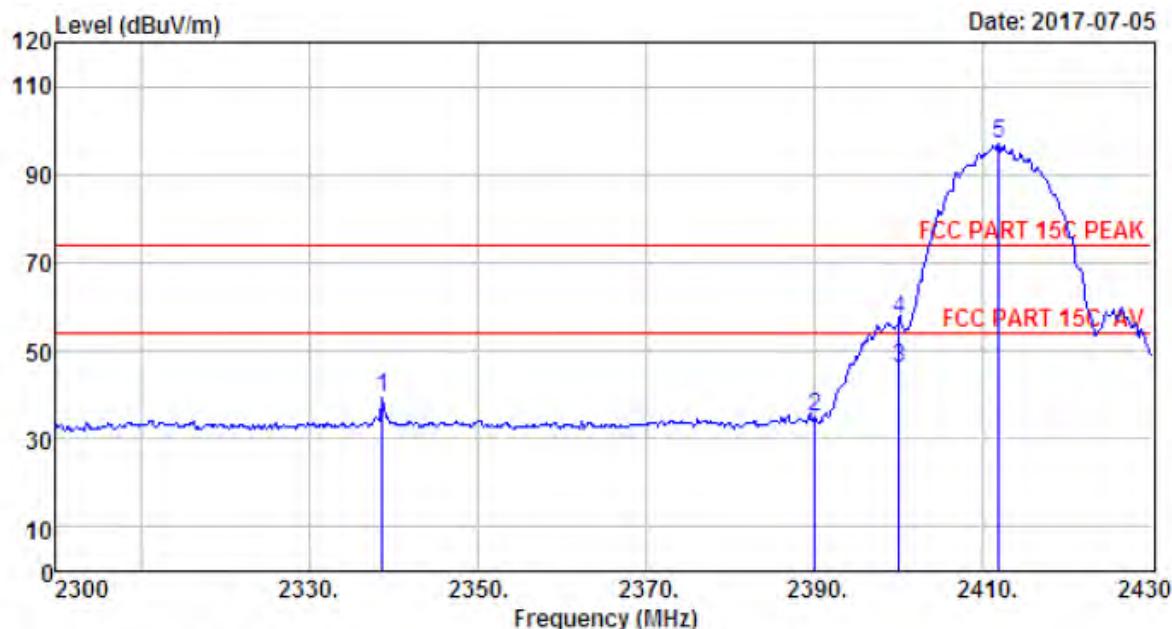
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 237  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 36.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH1 2412TX  
 Antenna 1

Freq. (MHz)	Ant.	Cable	Amp	Emission				Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2338.74	27.73	6.56	34.59	41.42	41.12	74.00	32.88	Peak	
2 2390.00	27.64	6.62	34.62	34.67	34.31	74.00	39.69	Peak	
3 2400.00	27.61	6.62	34.64	49.26	48.85	74.00	25.15	Peak	
4 2411.80	27.60	6.64	34.64	91.05	90.65	74.00	-16.65	Peak	

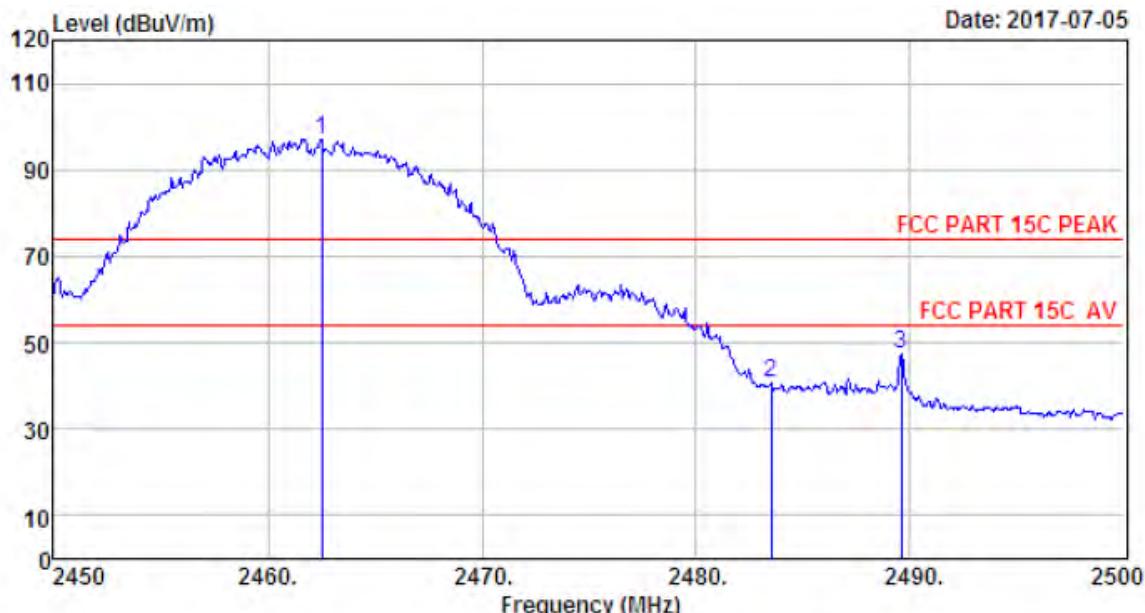
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 238  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH1 2412TX  
 Antenna 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2338.74	27.73	6.56	34.59	39.69	39.39	74.00	34.61	Peak	
2 2390.00	27.64	6.62	34.62	35.31	34.95	74.00	39.05	Peak	
3 2400.00	27.61	6.62	34.64	46.56	46.15	54.00	7.85	Average	
4 2400.00	27.61	6.62	34.64	57.56	57.15	74.00	16.85	Peak	
5 2411.80	27.60	6.64	34.64	97.24	96.84	74.00	-22.84	Peak	

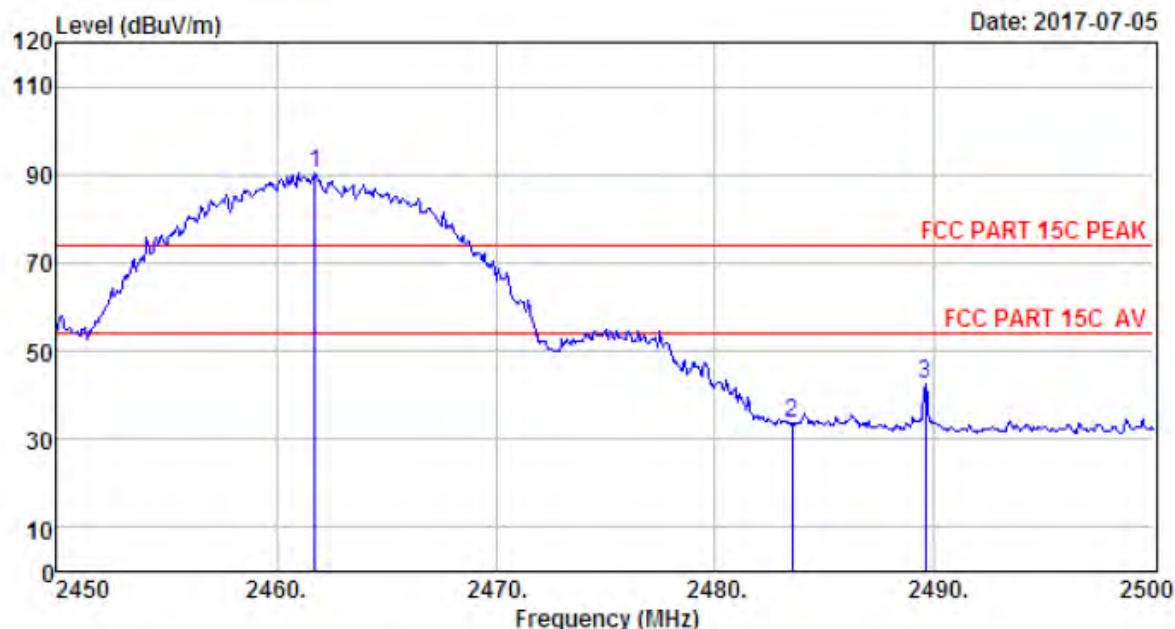
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 239  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH11 2462TX  
 Antenna 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.50	27.58	6.69	34.98	97.79	97.08	74.00	-23.08	Peak
2	2483.50	27.58	6.71	35.11	41.53	40.71	74.00	33.29	Peak
3	2489.60	27.58	6.73	35.24	48.21	47.28	74.00	26.72	Peak

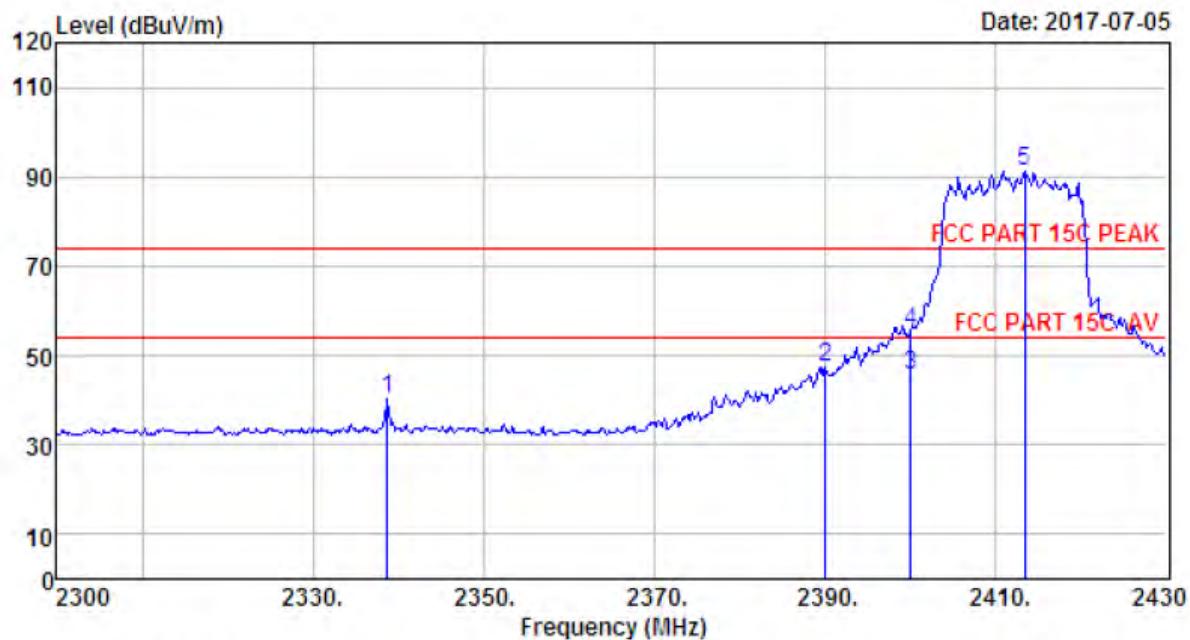
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 240  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11b CH11 2462TX  
 Antenna 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.75	27.58	6.69	34.98	91.18	90.47	74.00	-16.47	Peak
2	2483.50	27.58	6.71	35.11	34.67	33.85	74.00	40.15	Peak
3	2489.60	27.58	6.73	35.24	43.26	42.33	74.00	31.67	Peak

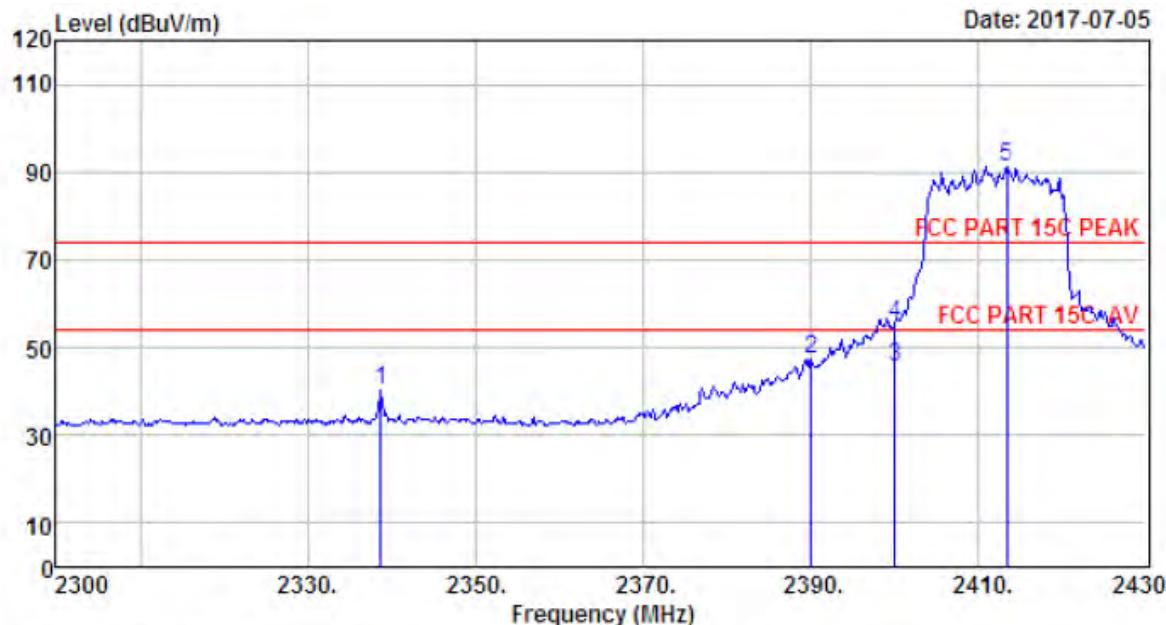
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 242  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH1 2412TX  
 Antenna 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2338.74	27.73	6.56	34.59	40.47	40.17	74.00	33.83	Peak	
2 2390.00	27.64	6.62	34.62	47.64	47.28	74.00	26.72	Peak	
3 2400.00	27.61	6.62	34.64	45.95	45.54	54.00	8.46	Average	
4 2400.00	27.61	6.62	34.64	55.95	55.54	74.00	18.46	Peak	
5 2413.36	27.60	6.64	34.64	91.80	91.40	74.00	-17.40	Peak	

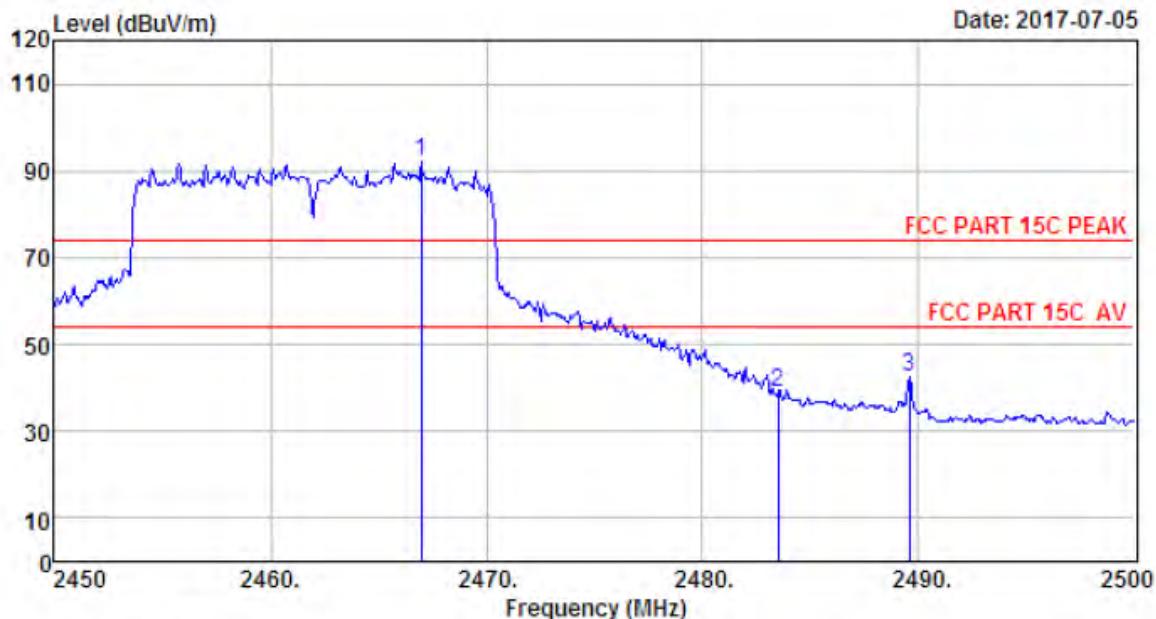
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 242  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH1 2412TX  
 Antenna 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2338.74	27.73	6.56	34.59	40.47	40.17	74.00	33.83	Peak
2 2390.00	27.64	6.62	34.62	47.64	47.28	74.00	26.72	Peak
3 2400.00	27.61	6.62	34.64	45.95	45.54	54.00	8.46	Average
4 2400.00	27.61	6.62	34.64	55.95	55.54	74.00	18.46	Peak
5 2413.36	27.60	6.64	34.64	91.80	91.40	74.00	-17.40	Peak

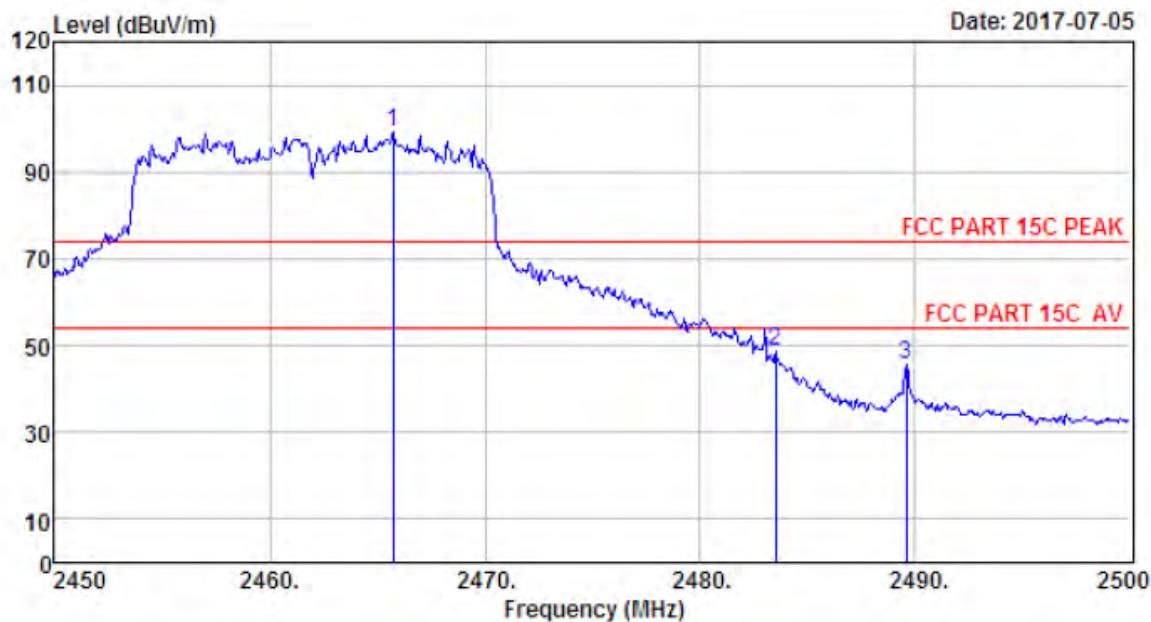
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 243  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUI : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSW3917BF  
 Test Mode : IEEE 802.11g CH11 2462TX  
               Antenna 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2467.00	27.58	6.69	34.98	92.94	92.23	74.00	-18.23	Peak	
2 2483.50	27.58	6.71	35.11	39.99	39.17	74.00	34.83	Peak	
3 2489.60	27.58	6.73	35.24	43.27	42.34	74.00	31.66	Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 244  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 38.5inch HD SMART TV  
 Power : AC 120V/60Hz  
 M/N : ELSN3917BF  
 Test Mode : IEEE 802.11g CH11 2462TX  
 Antenna 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2465.75	27.58	6.69	34.98	99.98	99.27	74.00	-25.27		Peak
2 2483.50	27.58	6.71	35.11	49.32	48.50	74.00	25.50		Peak
3 2489.60	27.58	6.73	35.24	46.70	45.77	74.00	28.23		Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

## 6 6dB & 20dB Bandwidth Test

### 6.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

### 6.2 Test Procedure for 6dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
  - (1). Set resolution bandwidth (RBW) = 100 kHz.
  - (2). Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
  - (3). Detector = Peak.
  - (4). Trace mode = max hold.
  - (5). Sweep = auto couple.
  - (6). Allow the trace to stabilize.
  - (7). Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 6.3 Test Procedure for 20dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in C63.10
  - (1). The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
  - (2). The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
  - (3). Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
  - (4). Steps a) through c) might require iteration to adjust within the specified tolerances.
  - (5). The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
  - (6). Set detection mode to peak and trace mode to max hold.
  - (7). Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
  - (8). Determine the “-xx dB down amplitude” using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
  - (9). If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
  - (10). Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “\_xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value,

then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “\_xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

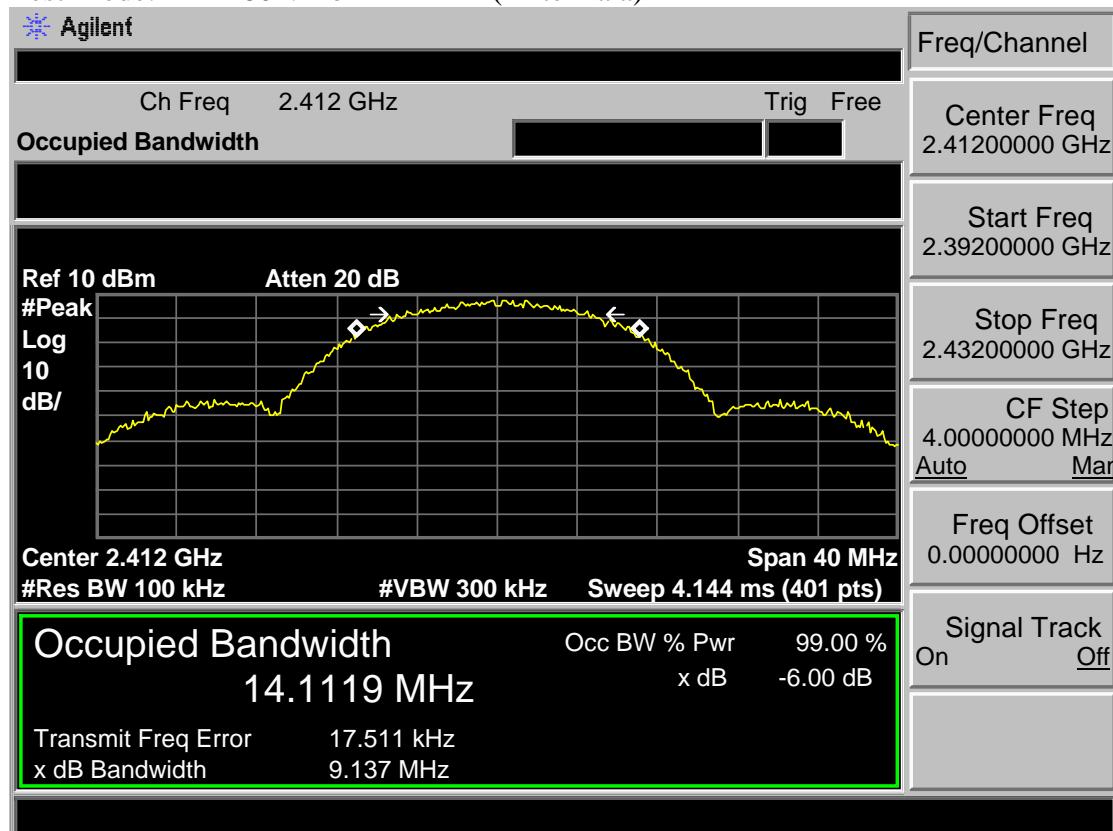
(11). The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

## 6.4 Test Result

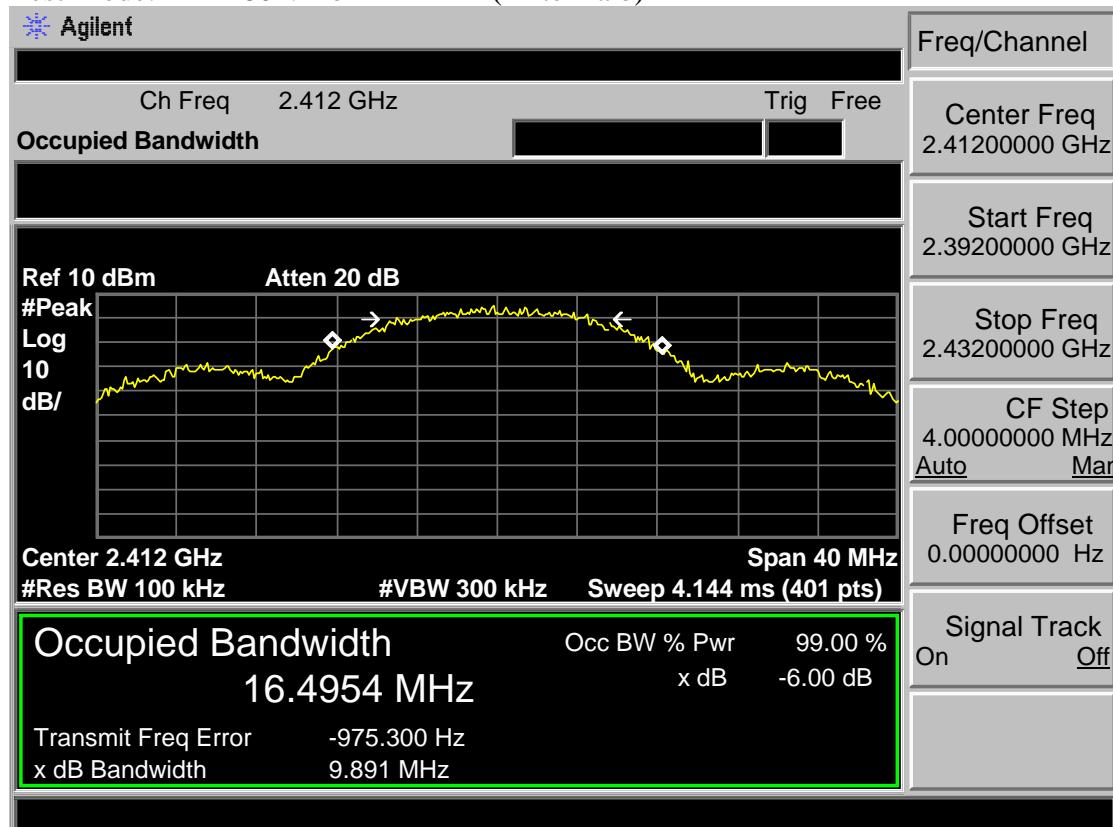
EUT: 38.5inch HD SMART TV				
M/N: ELSW3917BF				
Test date: 2017-06-30		Tested by: Seven		Test site: RF Site
Antenna a				
Test Mode	CH	6dB bandwidth (MHz)	20dB bandwidth (MHz)	Limit (KHz)
IEEE 802.11 b	CH1	9.137	16.305	>500
	CH6	9.487	16.257	>500
	CH11	9.593	16.278	>500
IEEE 802.11 g	CH1	15.692	18.583	>500
	CH6	15.782	18.306	>500
	CH11	15.775	18.460	>500
IEEE 802.11 n HT 20	CH1	15.189	18.232	>500
	CH6	15.150	18.295	>500
	CH11	15.234	18.261	>500
IEEE 802.11 n HT 40	CH3	35.080	39.322	>500
	CH6	35.104	39.145	>500
	CH9	35.098	39.262	>500
Antenna b				
Test Mode	CH	6dB bandwidth (MHz)	20dB bandwidth (MHz)	Limit (KHz)
IEEE 802.11 b	CH1	9.891	17.532	>500
	CH6	10.298	17.449	>500
	CH11	10.301	17.093	>500
IEEE 802.11 g	CH1	15.188	18.652	>500
	CH6	15.205	18.783	>500
	CH11	15.244	18.576	>500
IEEE 802.11 n HT 20	CH1	15.126	19.244	>500
	CH6	15.154	19.459	>500
	CH11	15.246	18.821	>500
IEEE 802.11 n HT 40	CH3	35.091	39.960	>500
	CH6	35.085	39.630	>500
	CH9	33.868	39.269	>500
Conclusion : PASS				

## 6.5 6dB Test Data

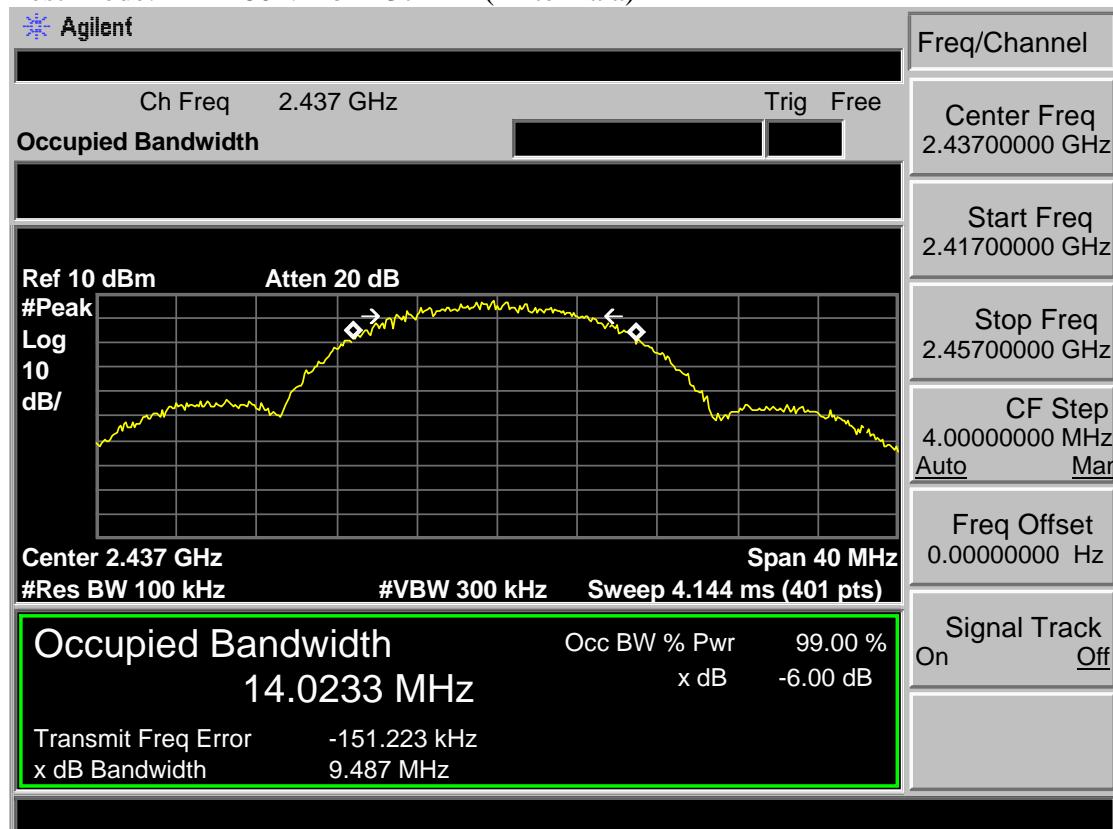
Test Mode: IEEE 802.11b 2412MHz (Antenna a)



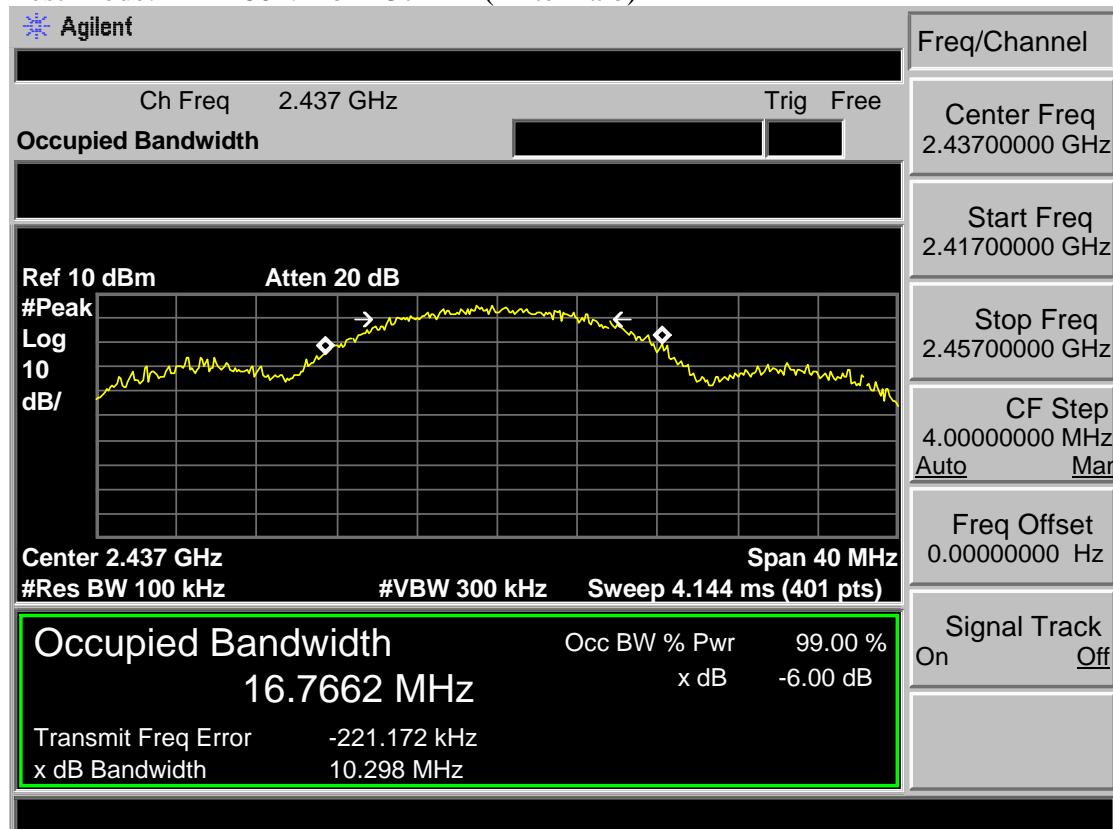
Test Mode: IEEE 802.11b 2412MHz (Antenna b)



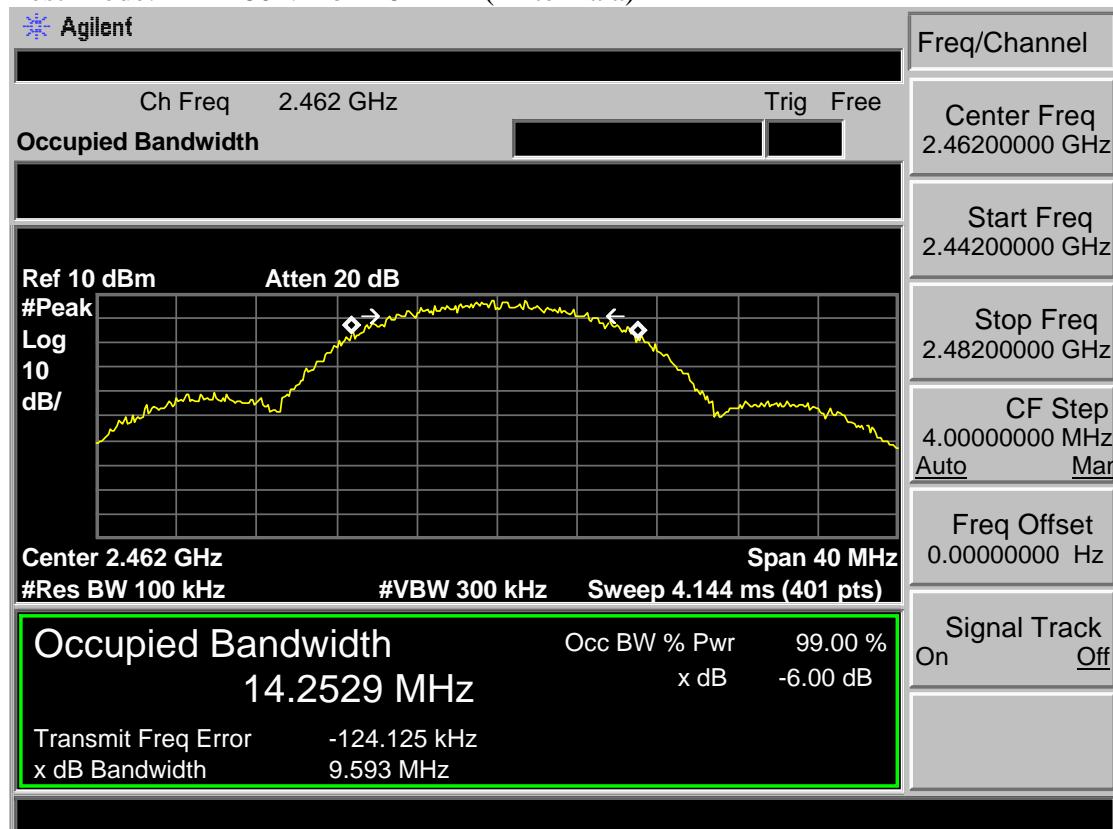
## Test Mode: IEEE 802.11b 2437MHz(Antenna a)



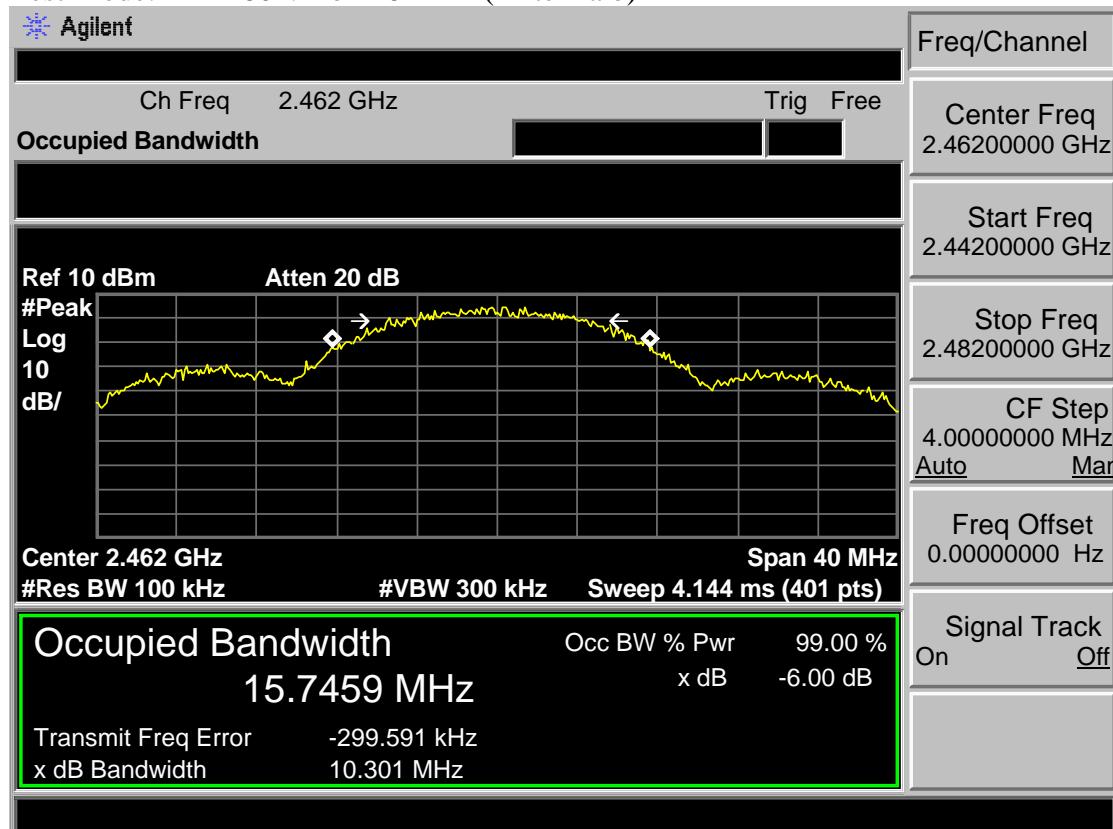
## Test Mode: IEEE 802.11b 2437MHz(Antenna b)



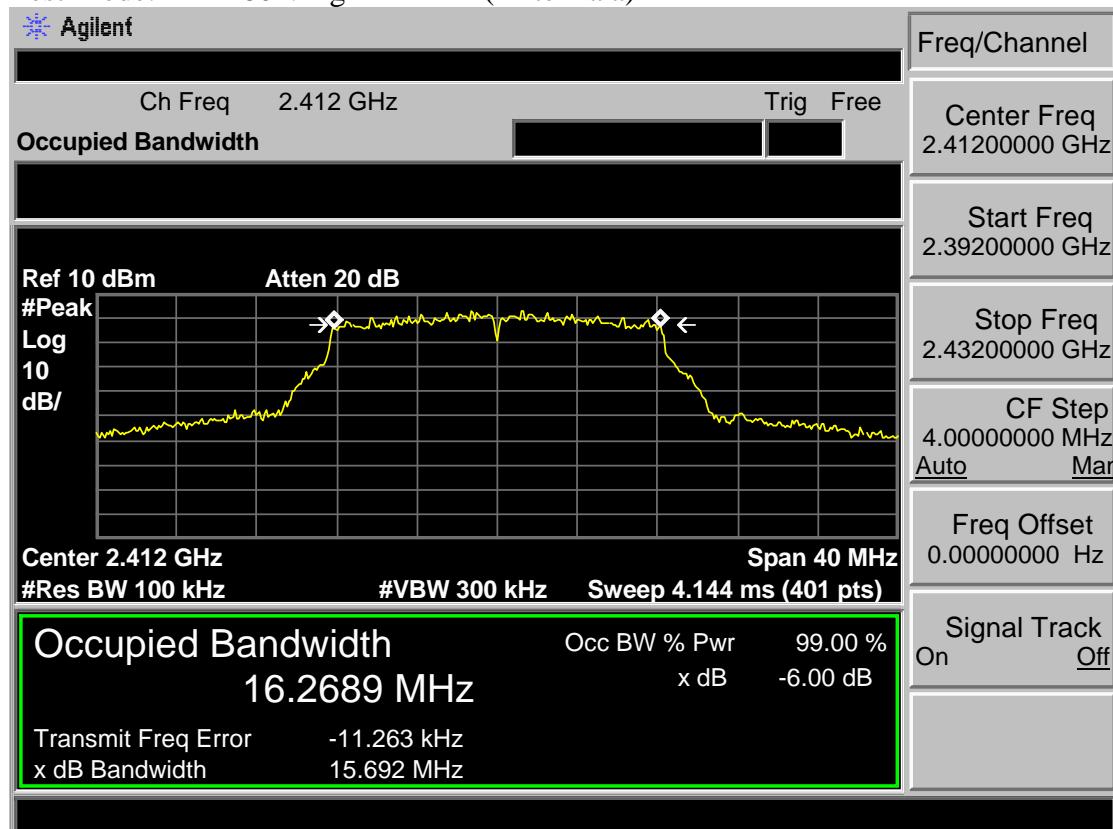
## Test Mode: IEEE 802.11b 2462MHz(Antenna a)



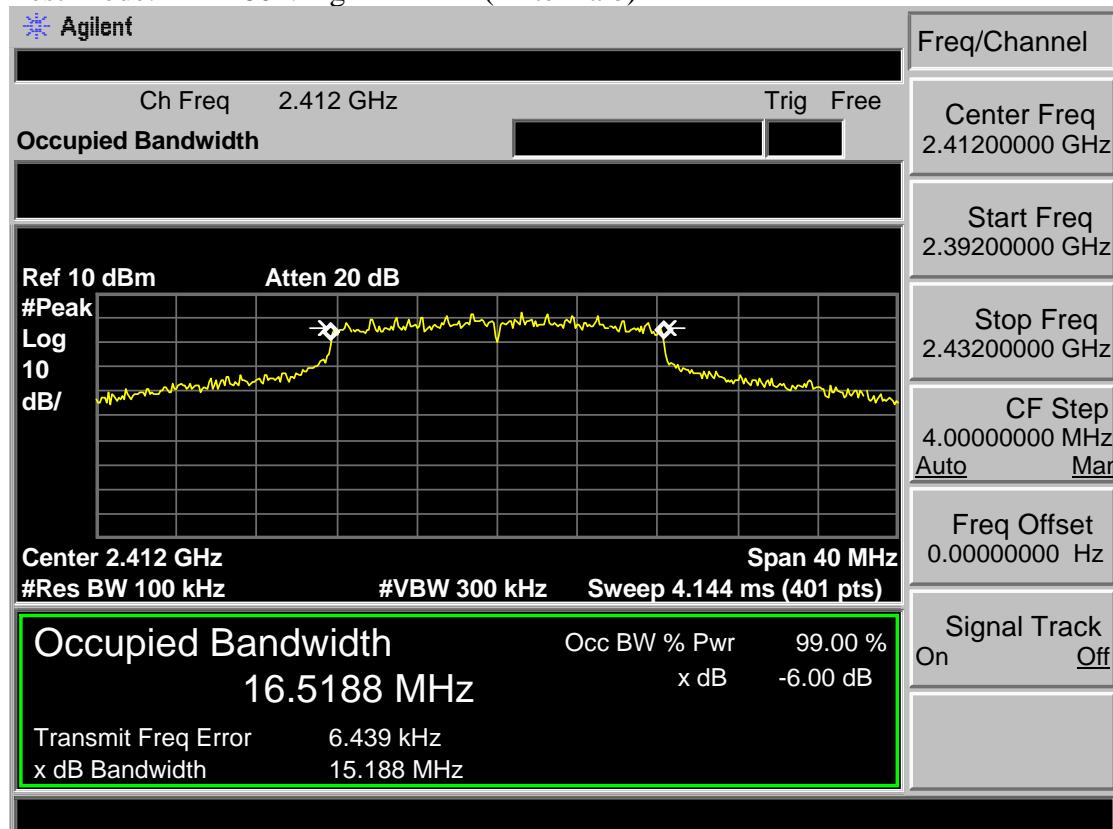
## Test Mode: IEEE 802.11b 2462MHz(Antenna b)



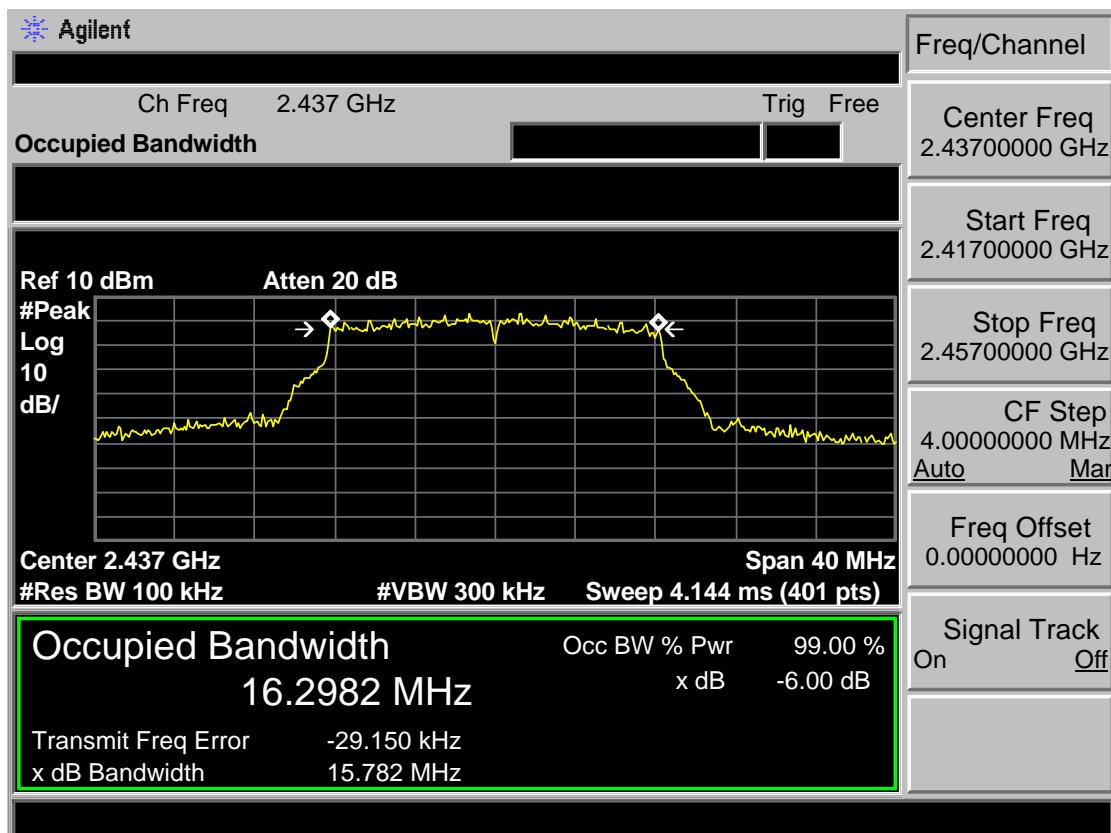
## Test Mode: IEEE 802.11g 2412MHz(Antenna a)



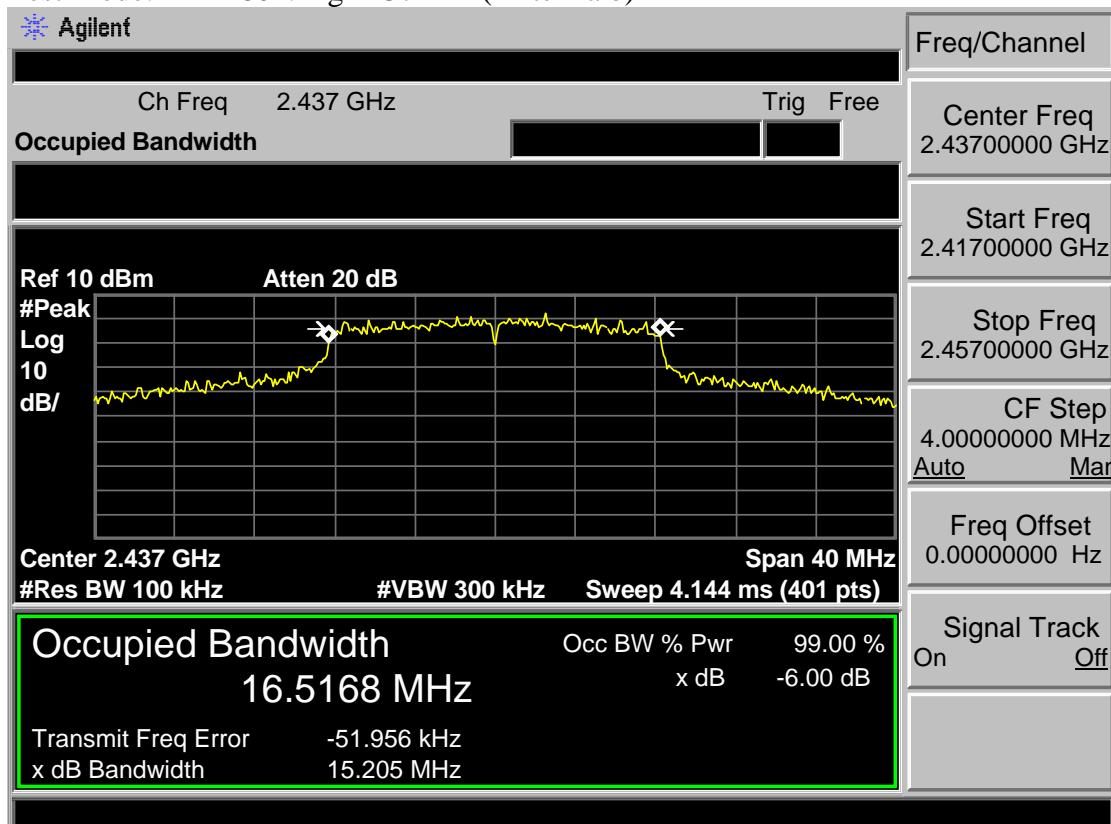
## Test Mode: IEEE 802.11g 2412MHz(Antenna b)



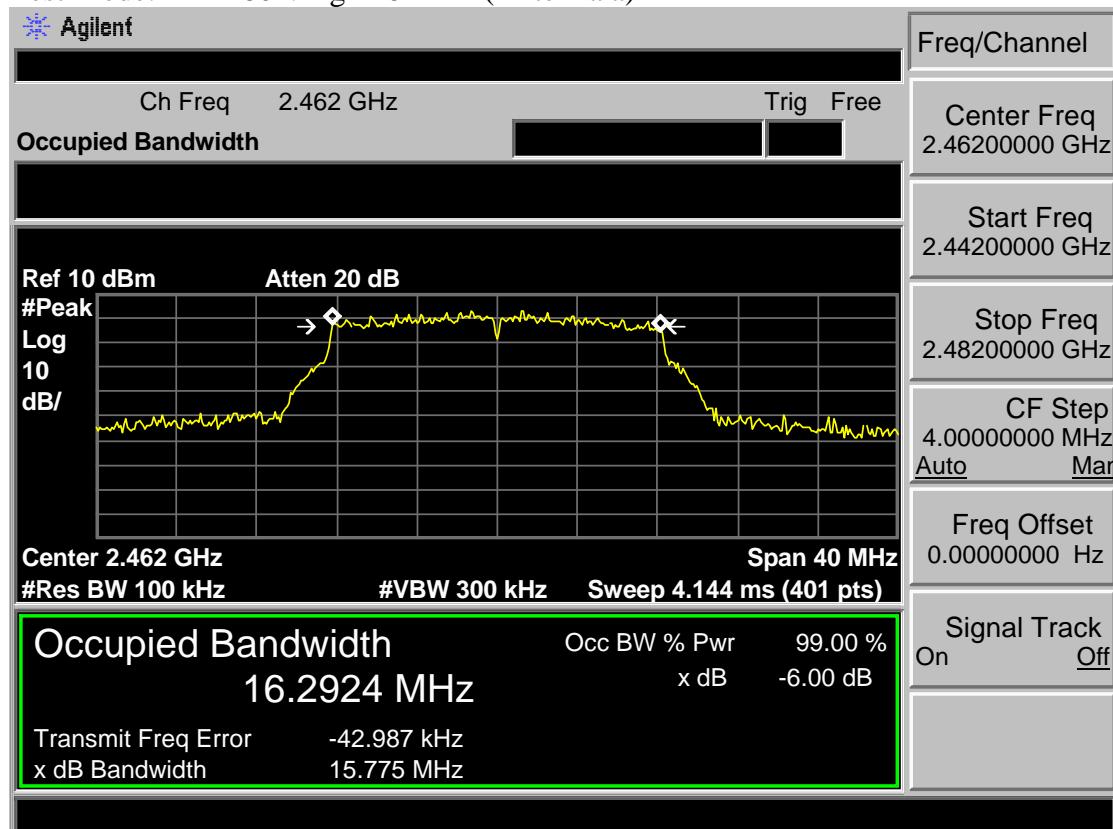
Test Mode: IEEE 802.11g 2437MHz(Antenna a)



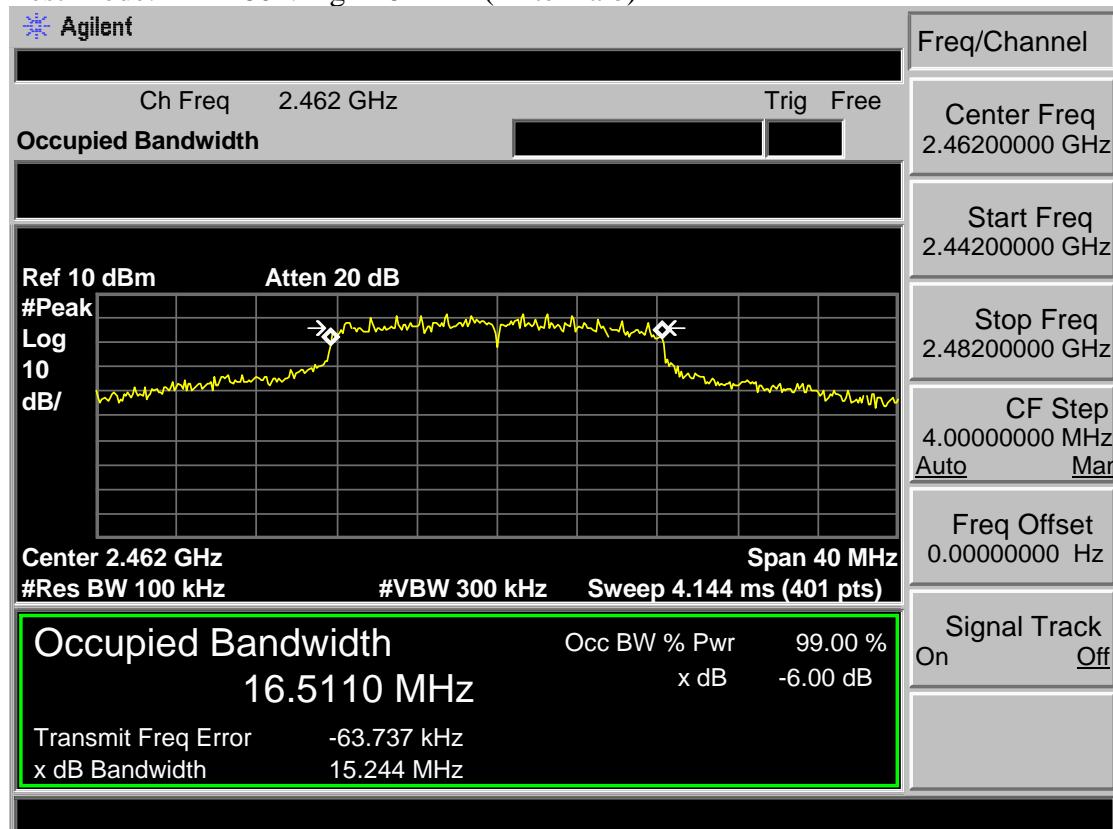
Test Mode: IEEE 802.11g 2437MHz(Antenna b)



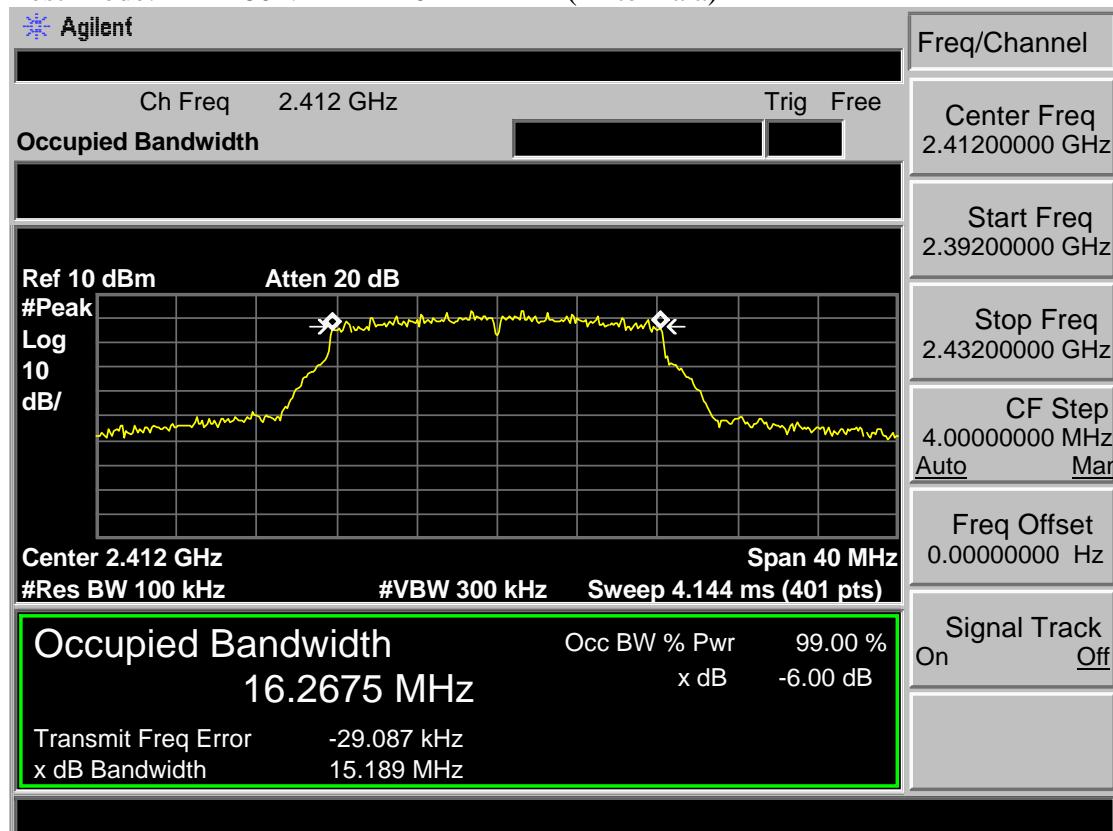
## Test Mode: IEEE 802.11g 2462MHz(Antenna a)



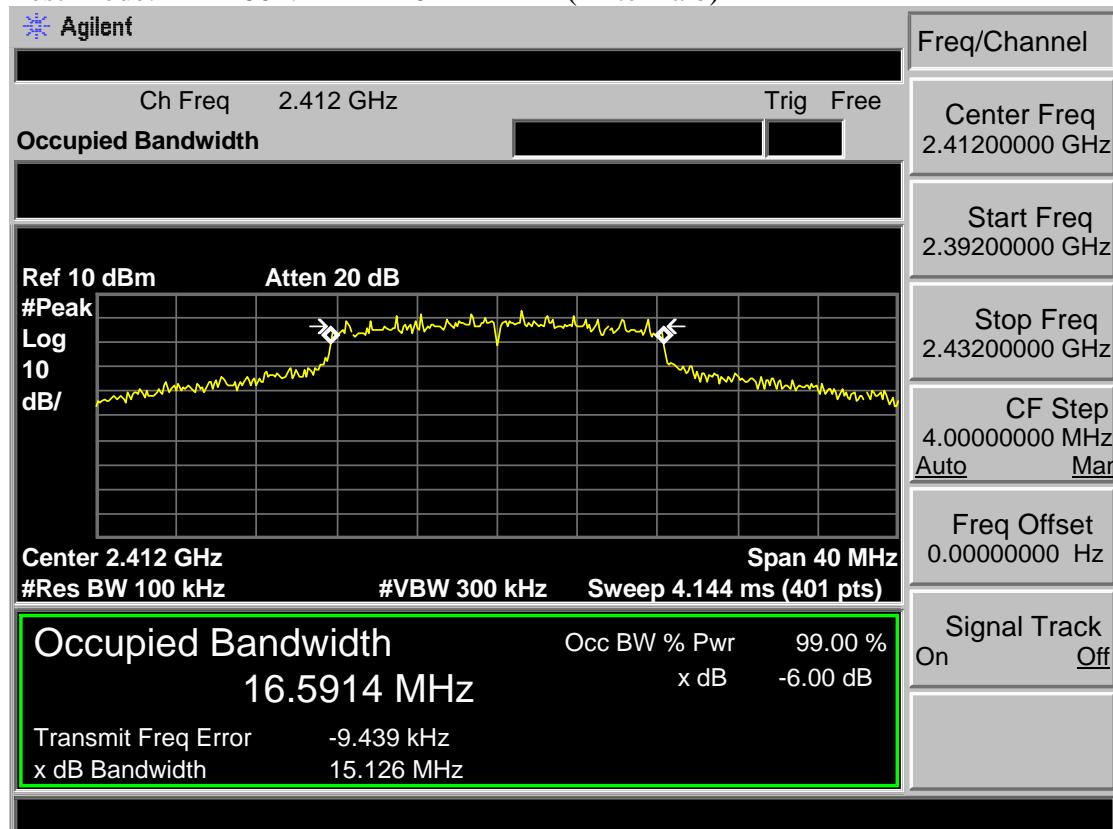
## Test Mode: IEEE 802.11g 2462MHz(Antenna b)



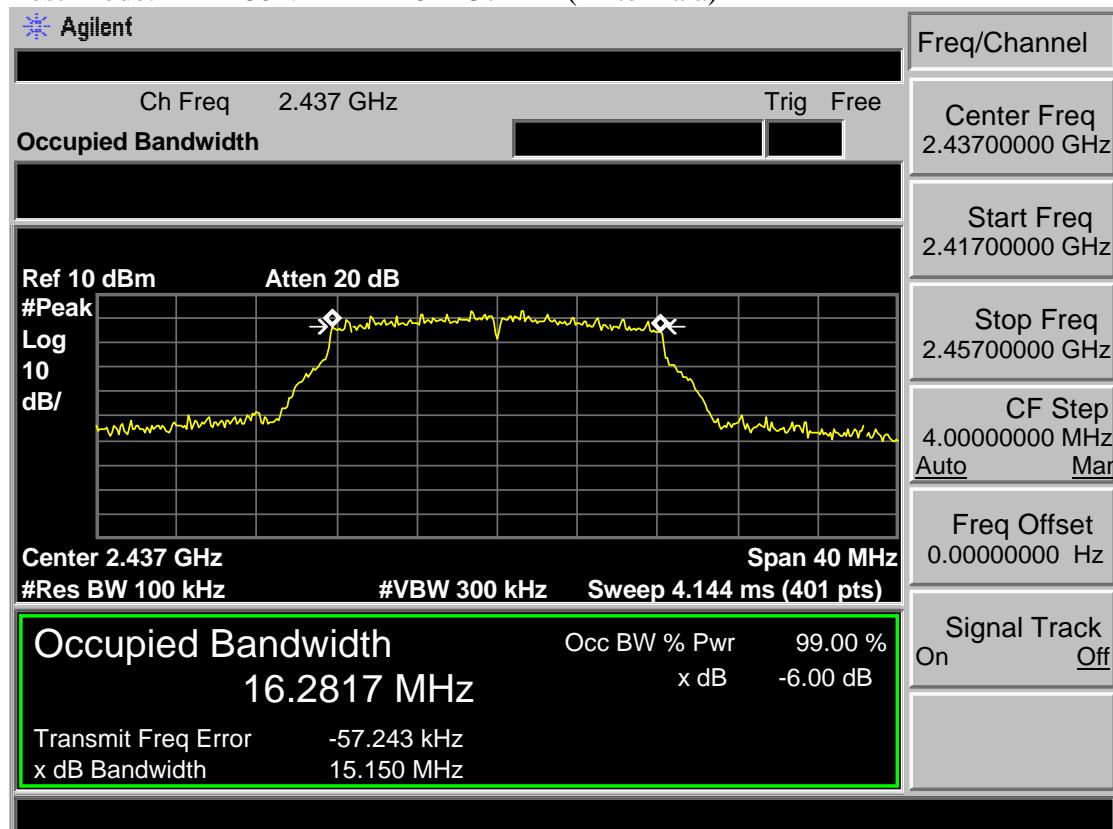
## Test Mode: IEEE 802.11n HT20 2412MHz(Antenna a)



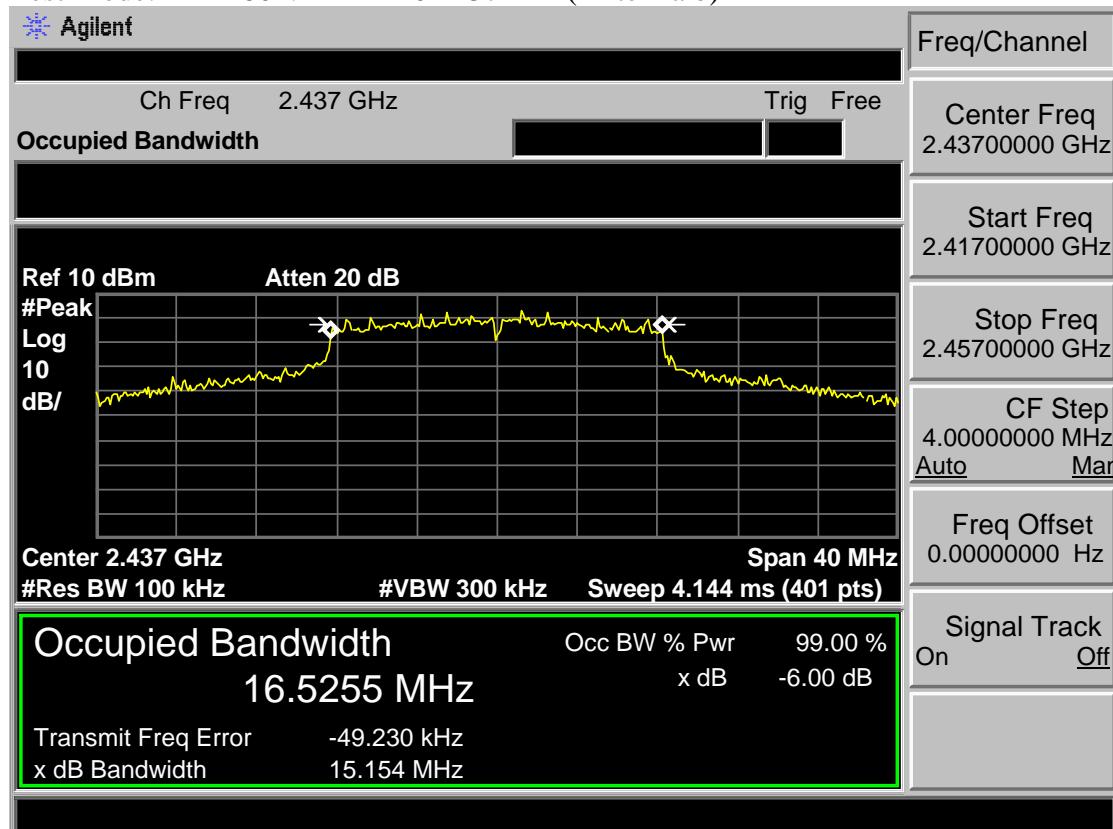
## Test Mode: IEEE 802.11n HT20 2412MHz(Antenna b)



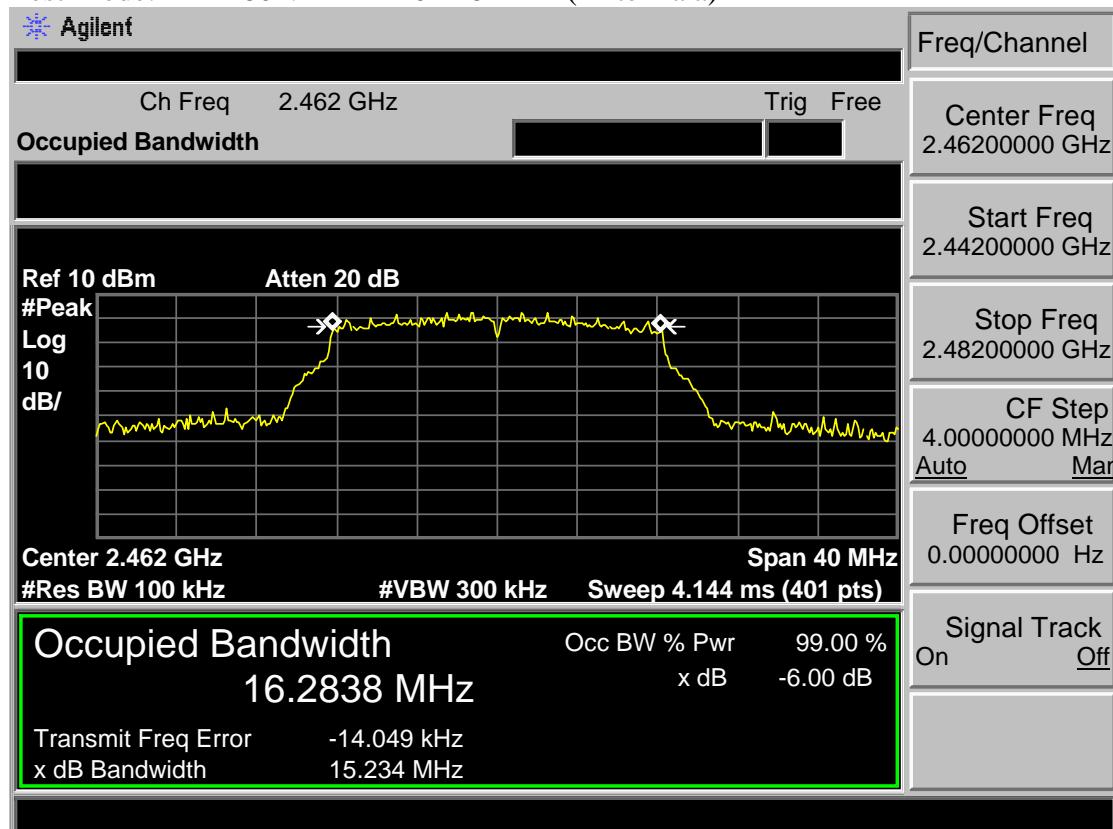
## Test Mode: IEEE 802.11n HT20 2437MHz(Antenna a)



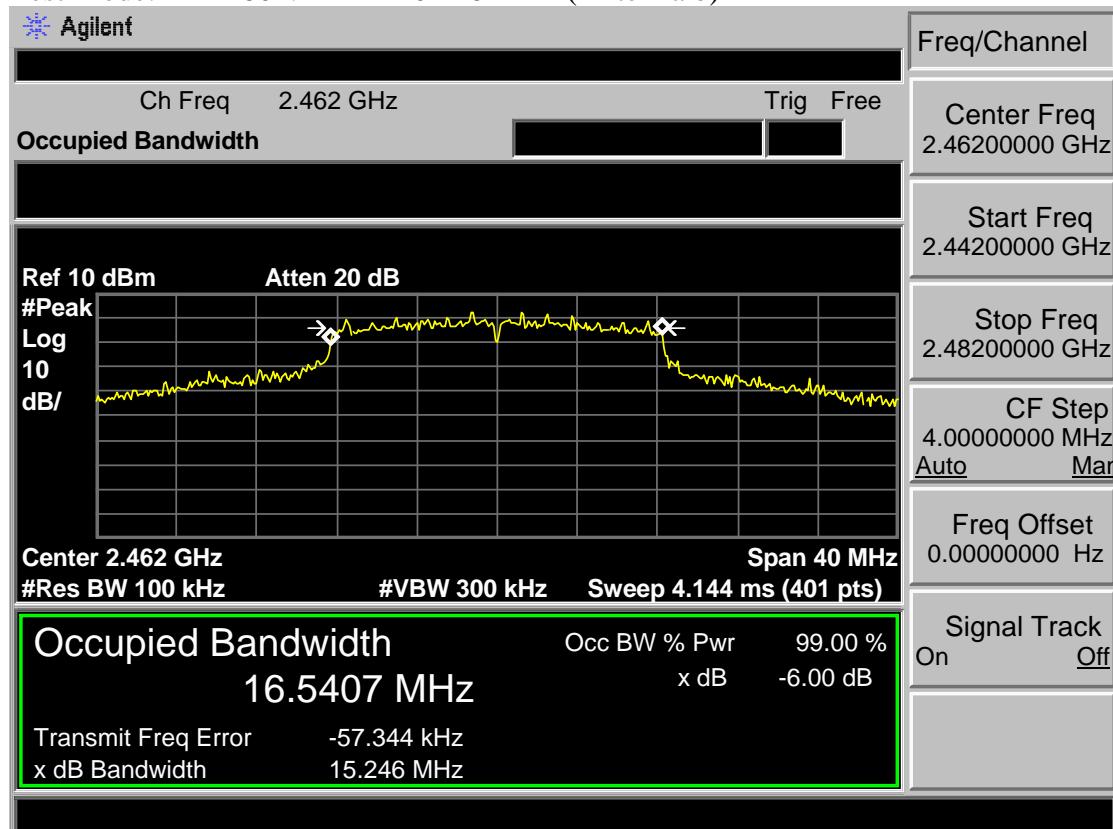
## Test Mode: IEEE 802.11n HT20 2437MHz(Antenna b)



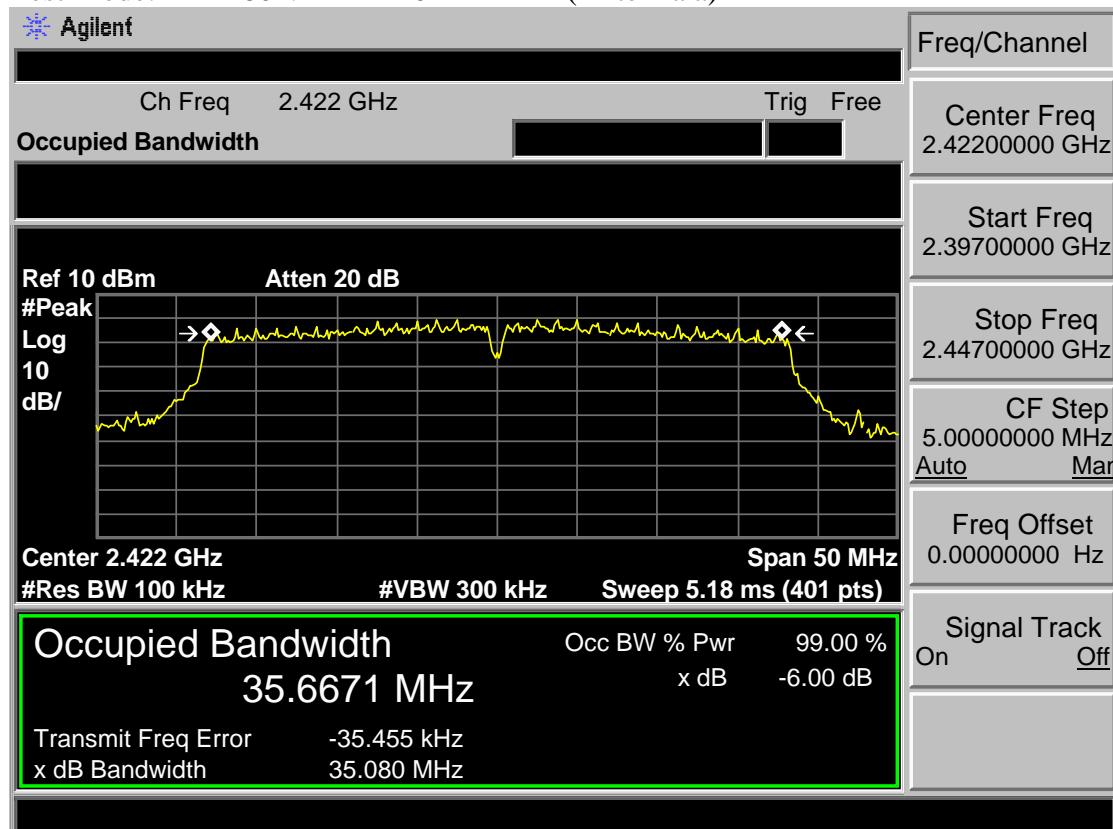
## Test Mode: IEEE 802.11n HT20 2462MHz(Antenna a)



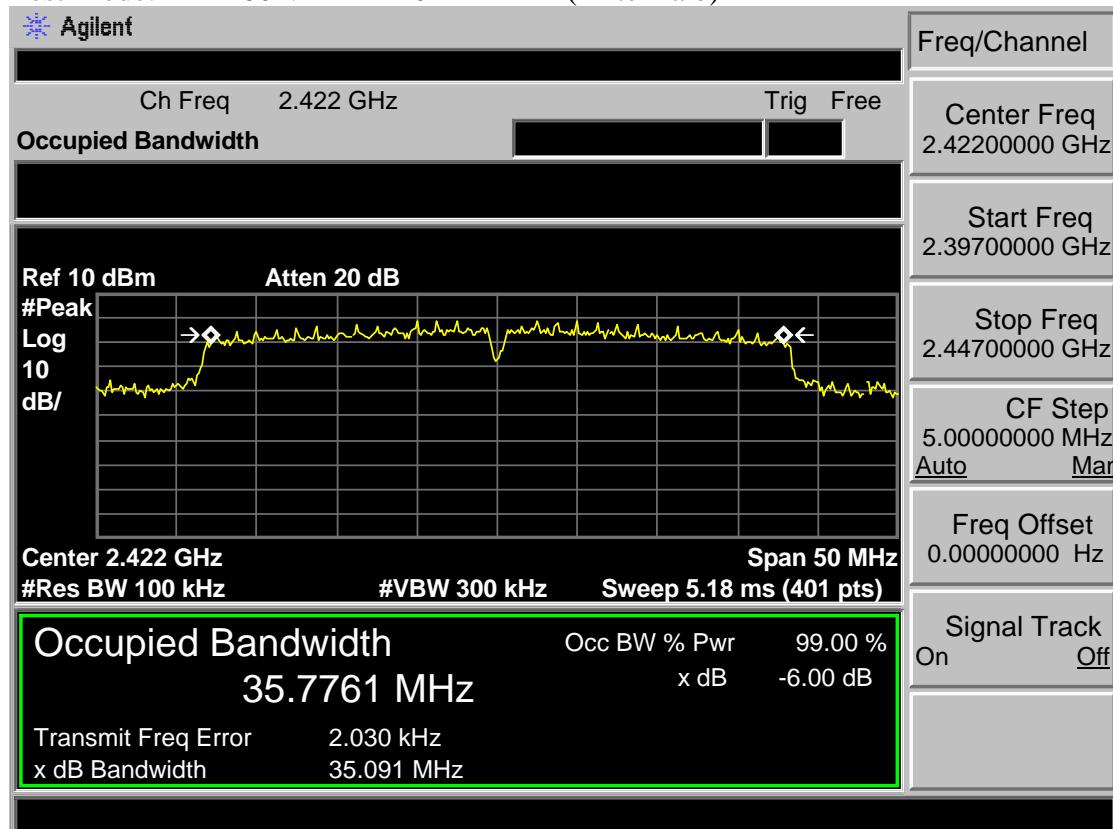
## Test Mode: IEEE 802.11n HT20 2462MHz(Antenna b)



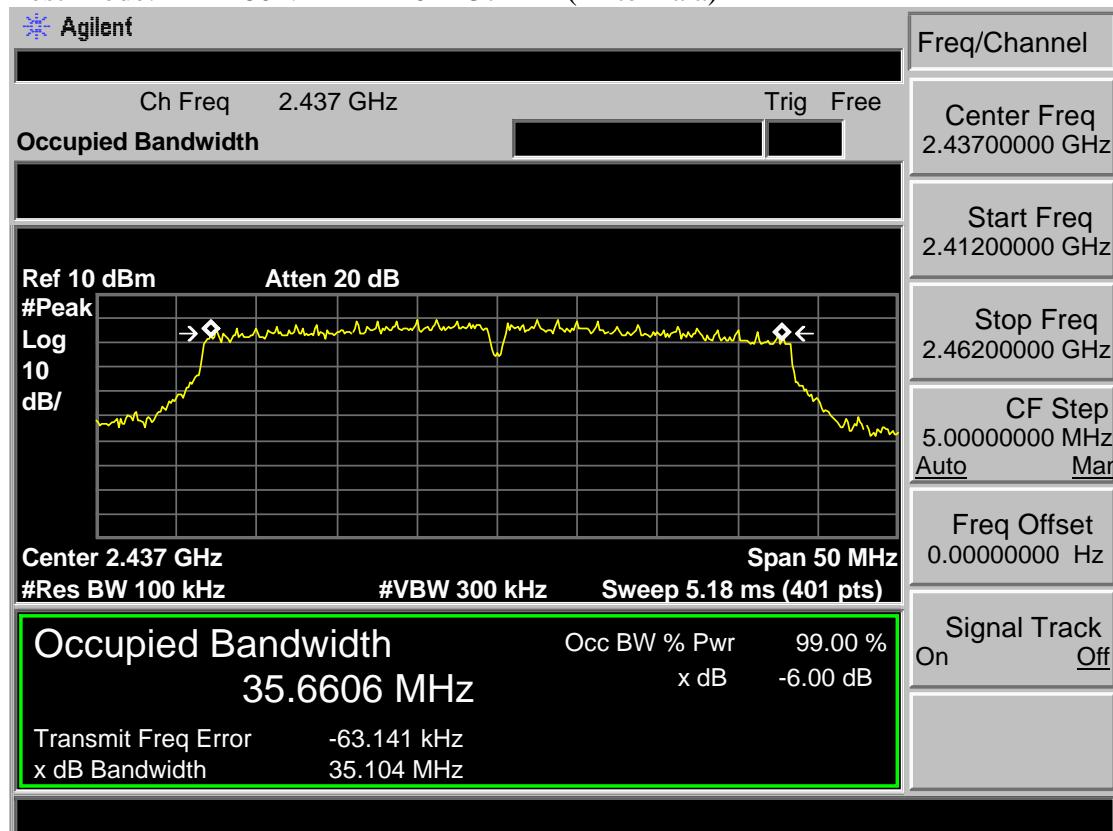
## Test Mode: IEEE 802.11n HT40 2422MHz(Antenna a)



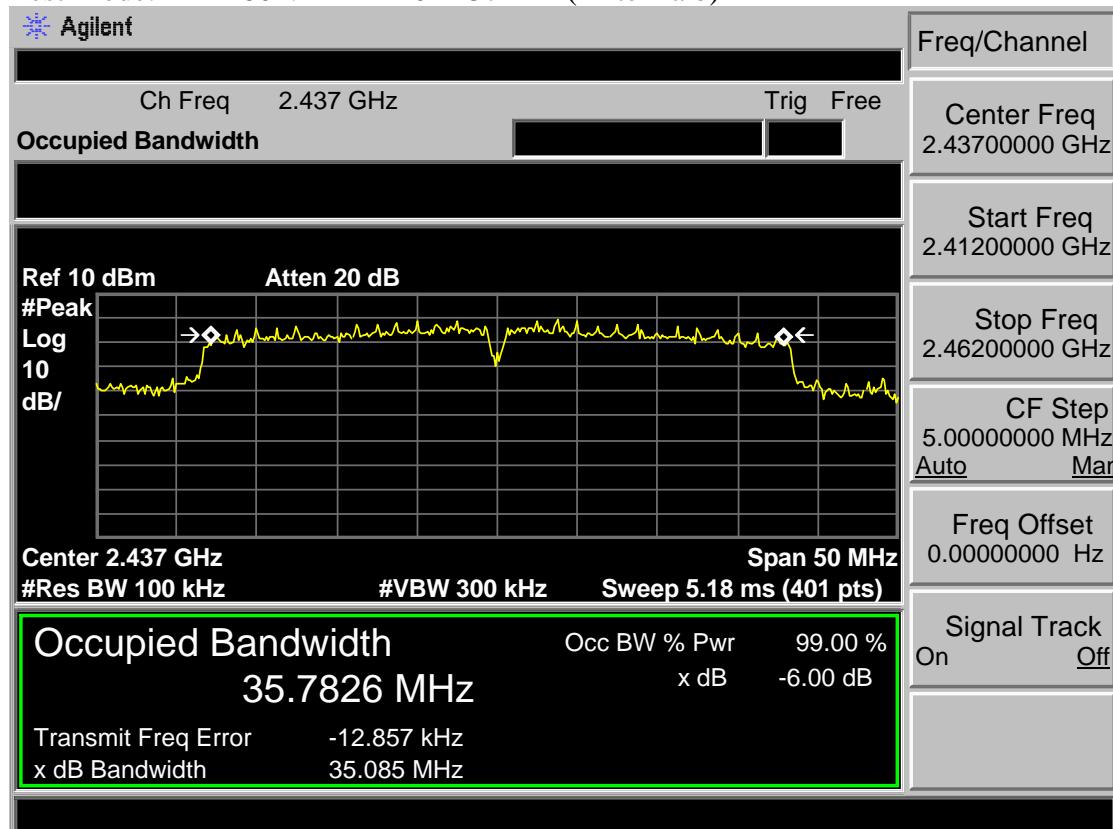
## Test Mode: IEEE 802.11n HT40 2422MHz(Antenna b)



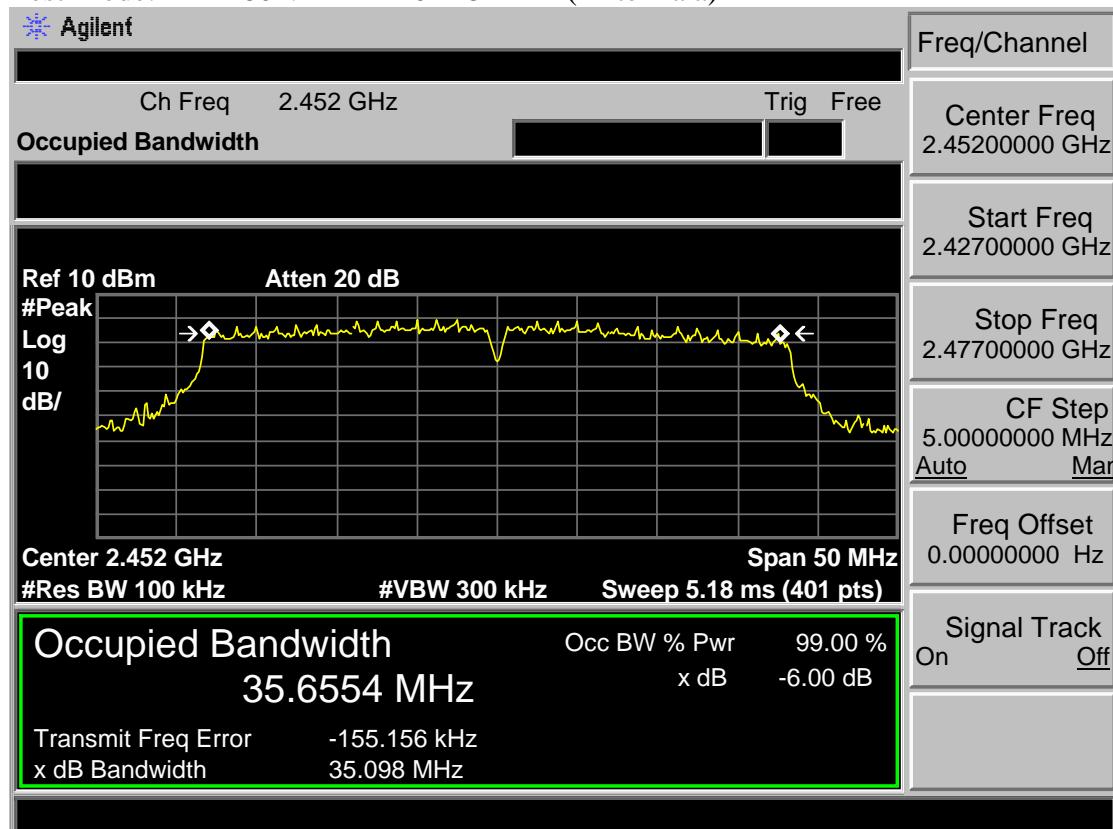
## Test Mode: IEEE 802.11n HT40 2437MHz(Antenna a)



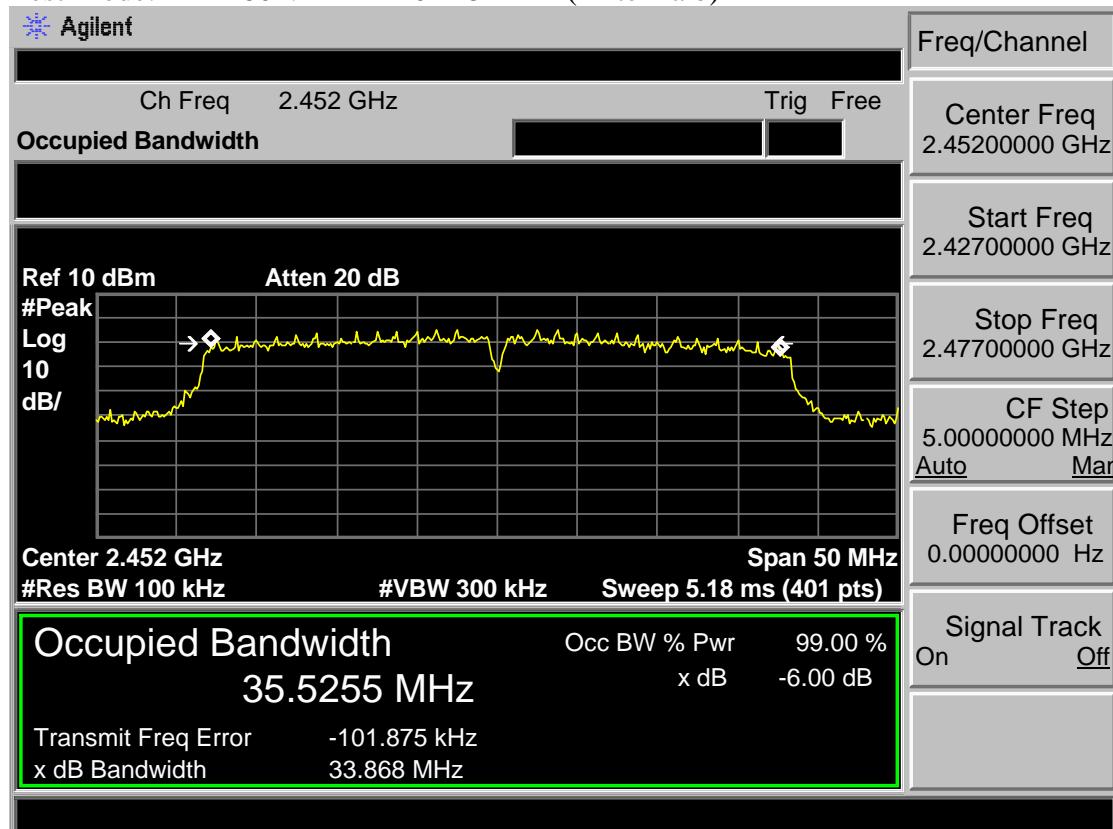
## Test Mode: IEEE 802.11n HT40 2437MHz(Antenna b)



## Test Mode: IEEE 802.11n HT40 2452MHz(Antenna a)

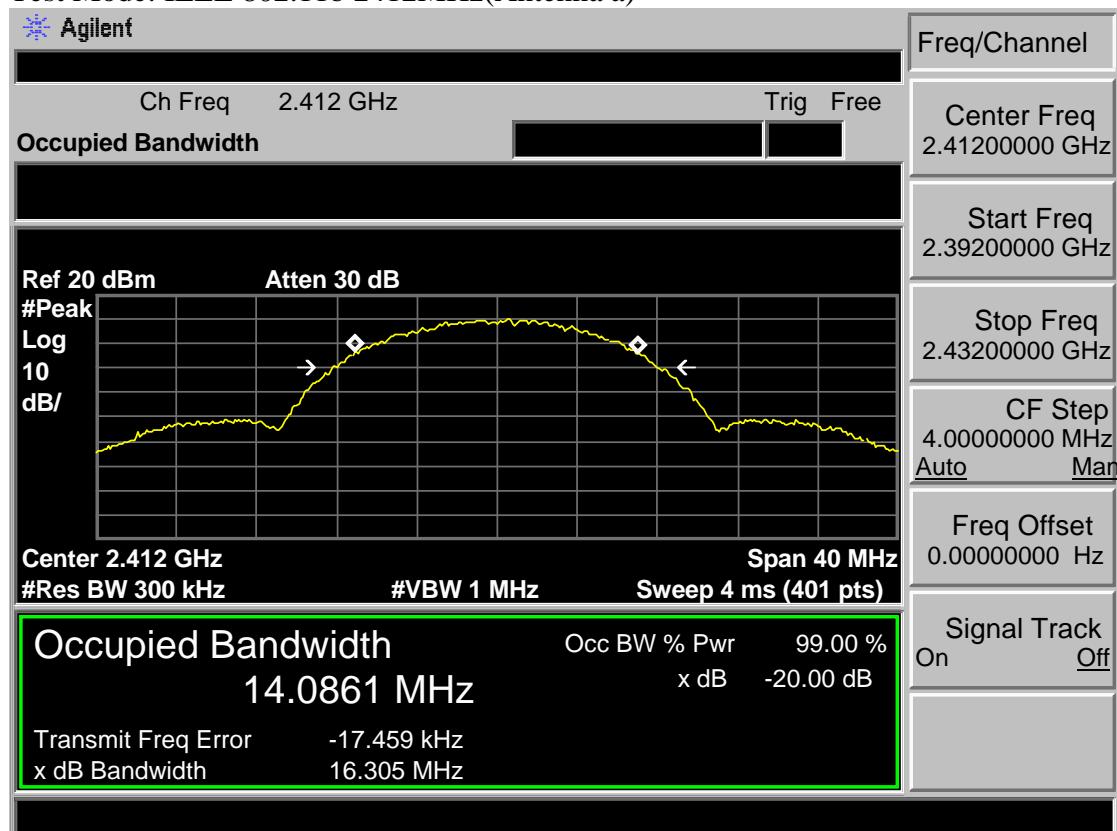


## Test Mode: IEEE 802.11n HT40 2452MHz(Antenna b)

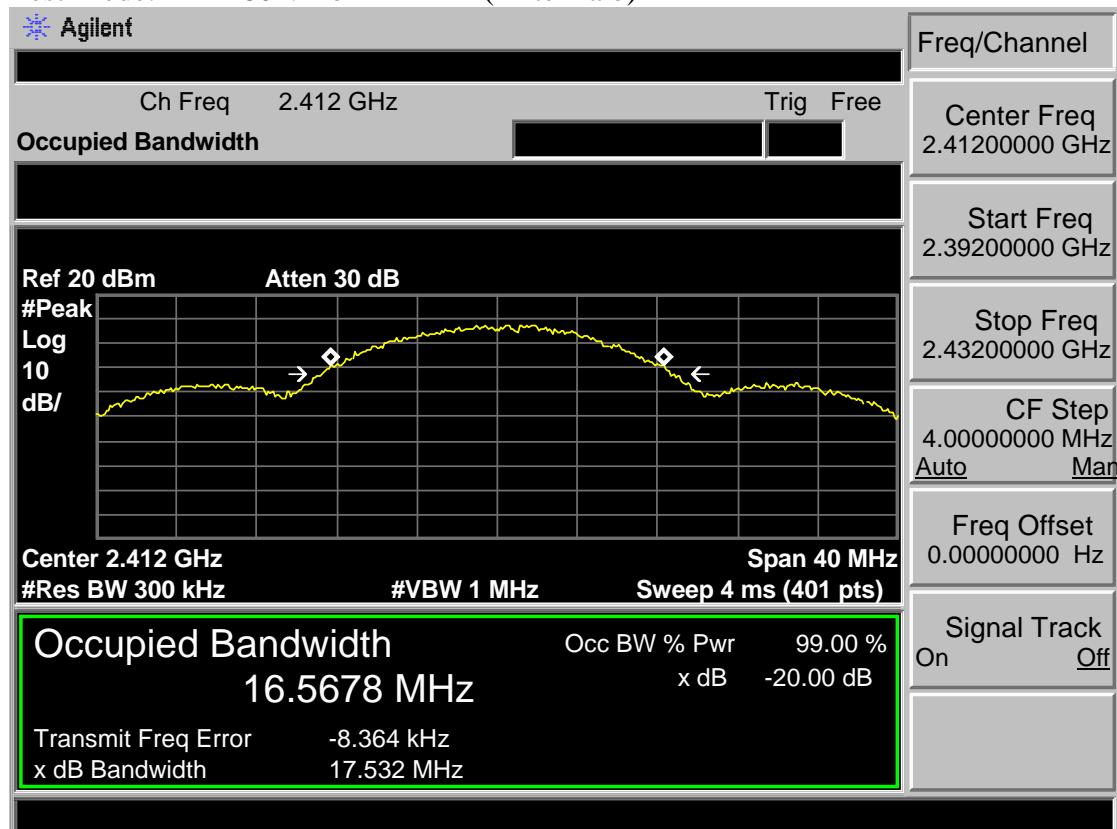


## 6.6 20dB Test Data

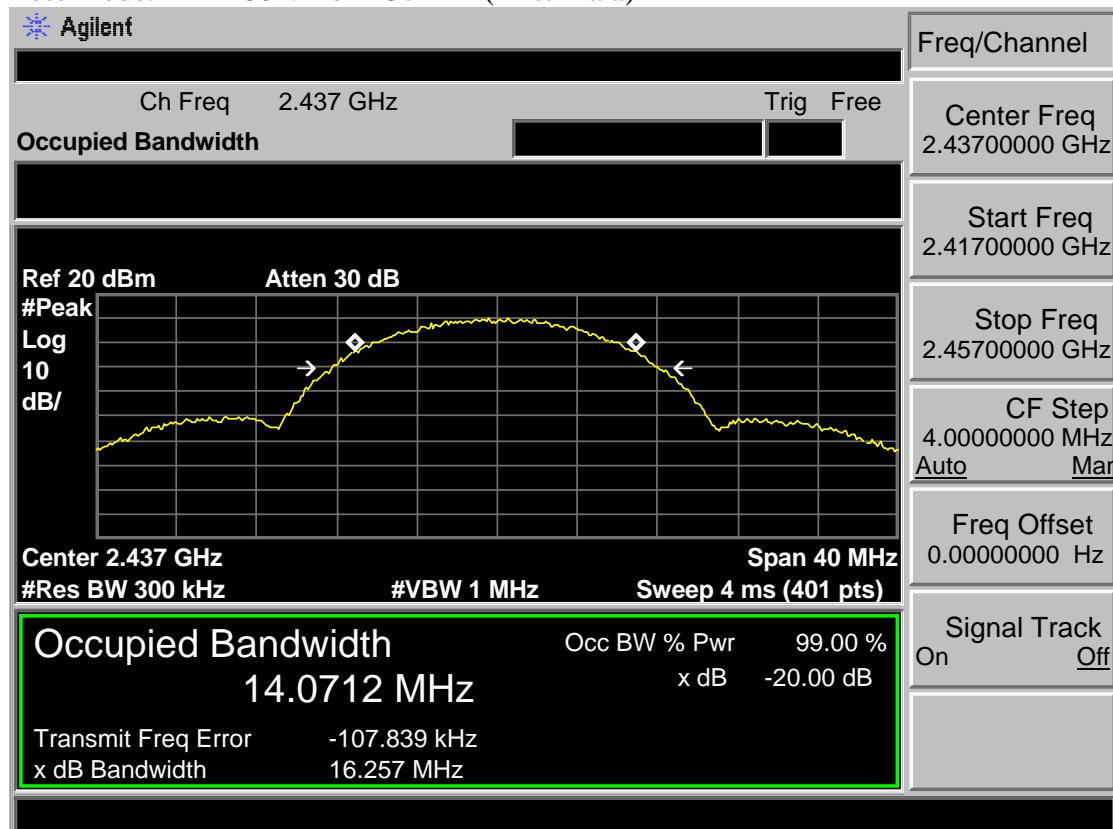
Test Mode: IEEE 802.11b 2412MHz(Antenna a)



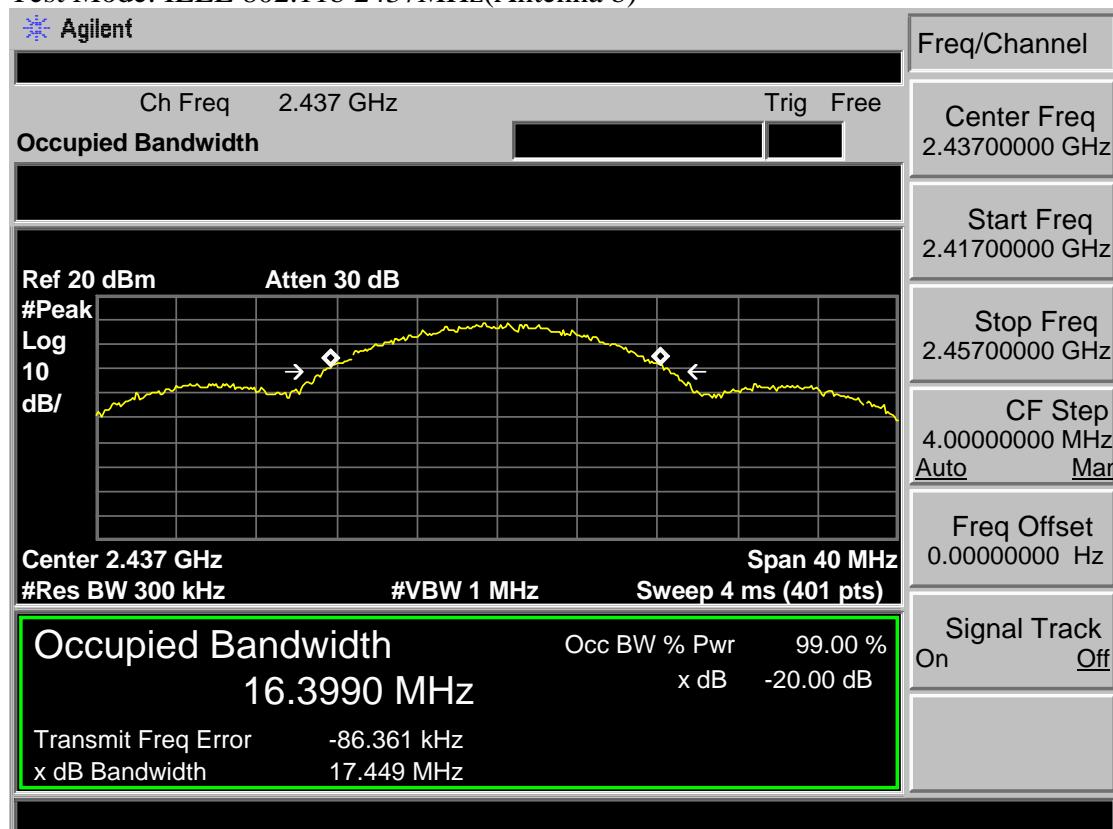
Test Mode: IEEE 802.11b 2412MHz(Antenna b)



## Test Mode: IEEE 802.11b 2437MHz(Antenna a)



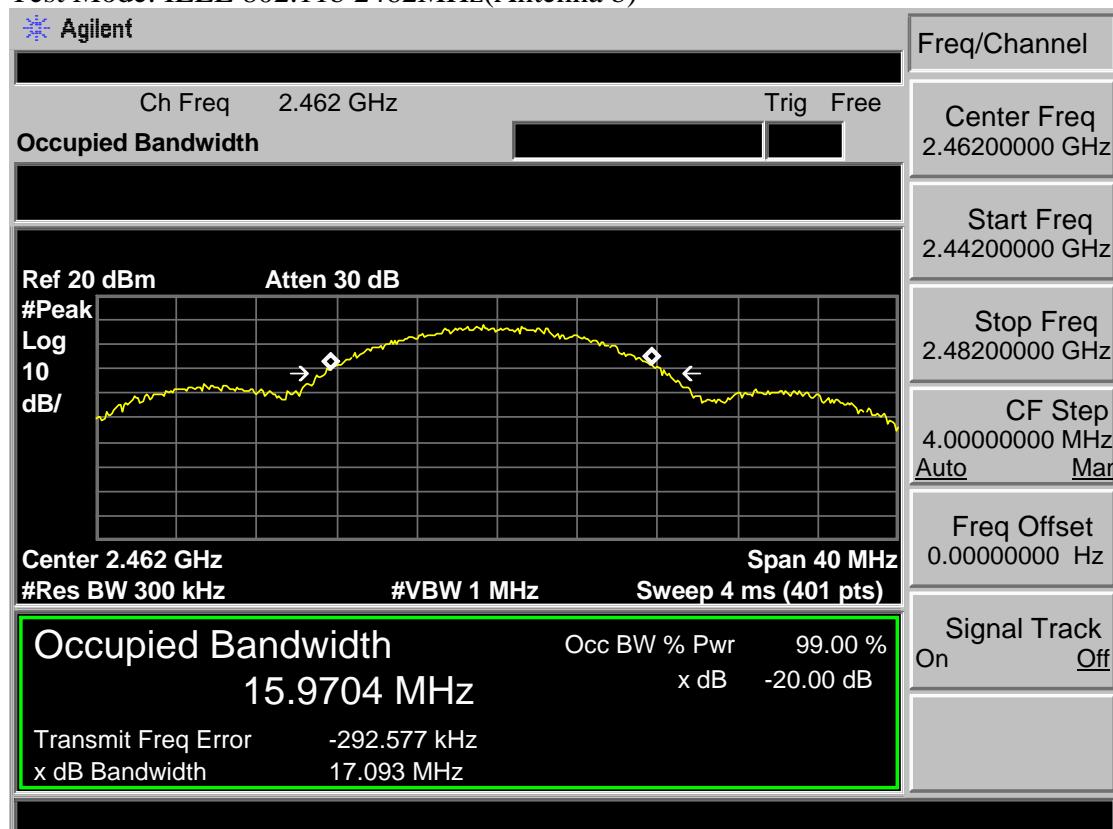
## Test Mode: IEEE 802.11b 2437MHz(Antenna b)



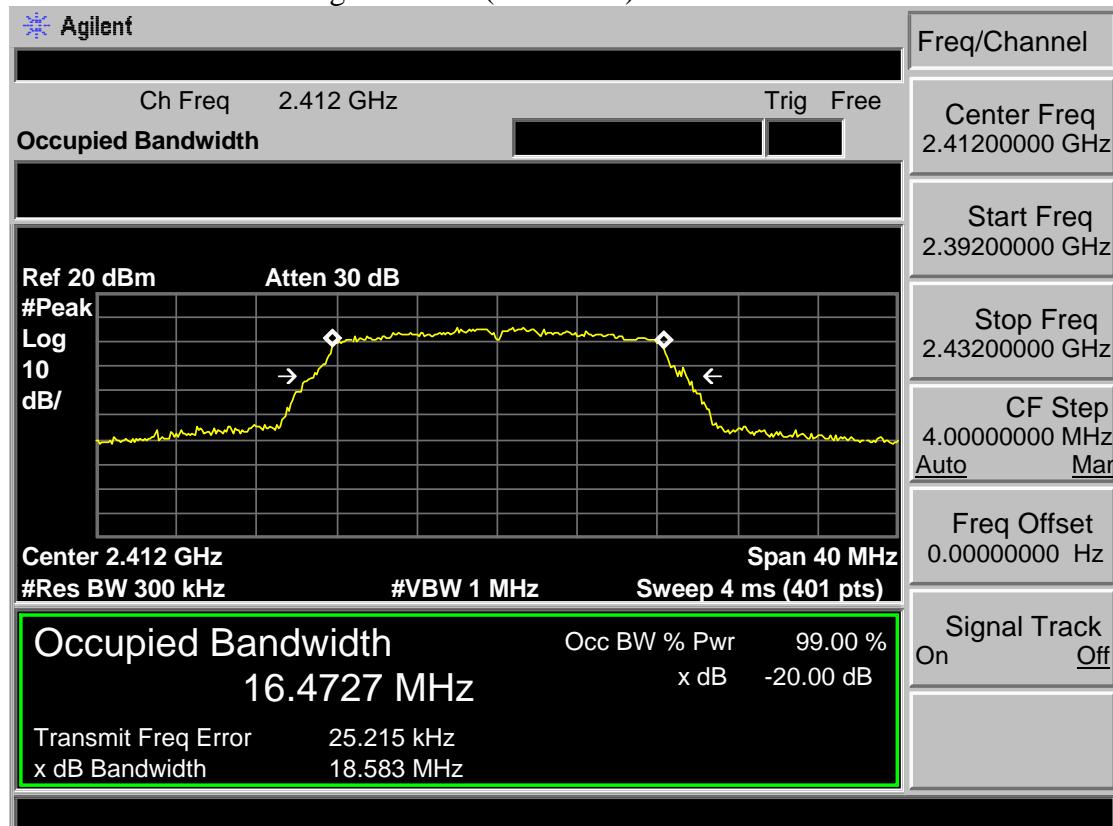
## Test Mode: IEEE 802.11b 2462MHz(Antenna a)



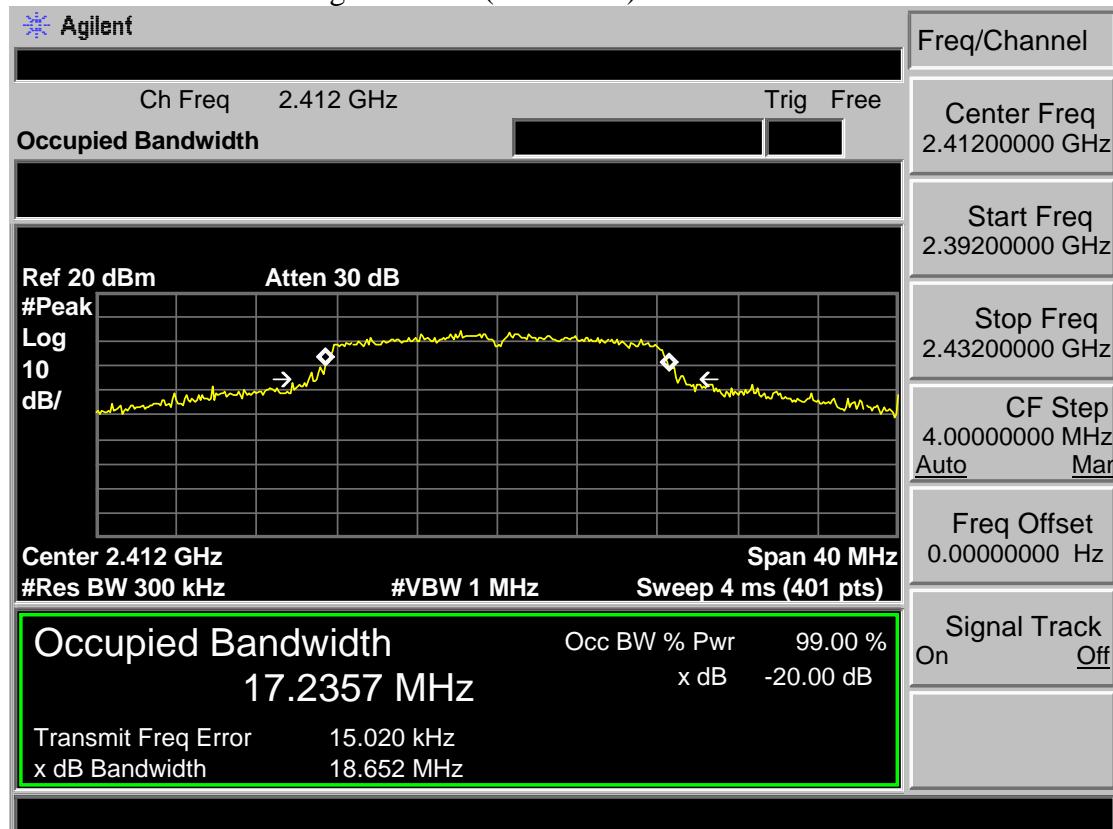
## Test Mode: IEEE 802.11b 2462MHz(Antenna b)



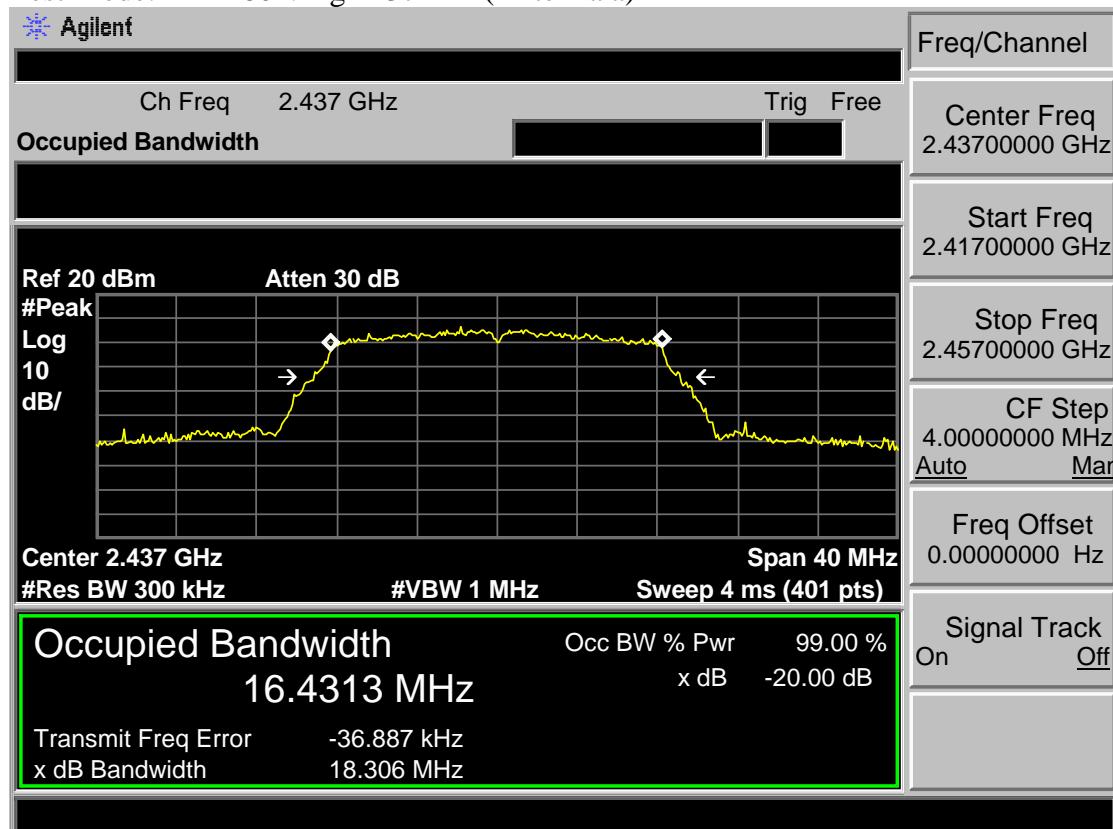
## Test Mode: IEEE 802.11g 2412MHz(Antenna a)



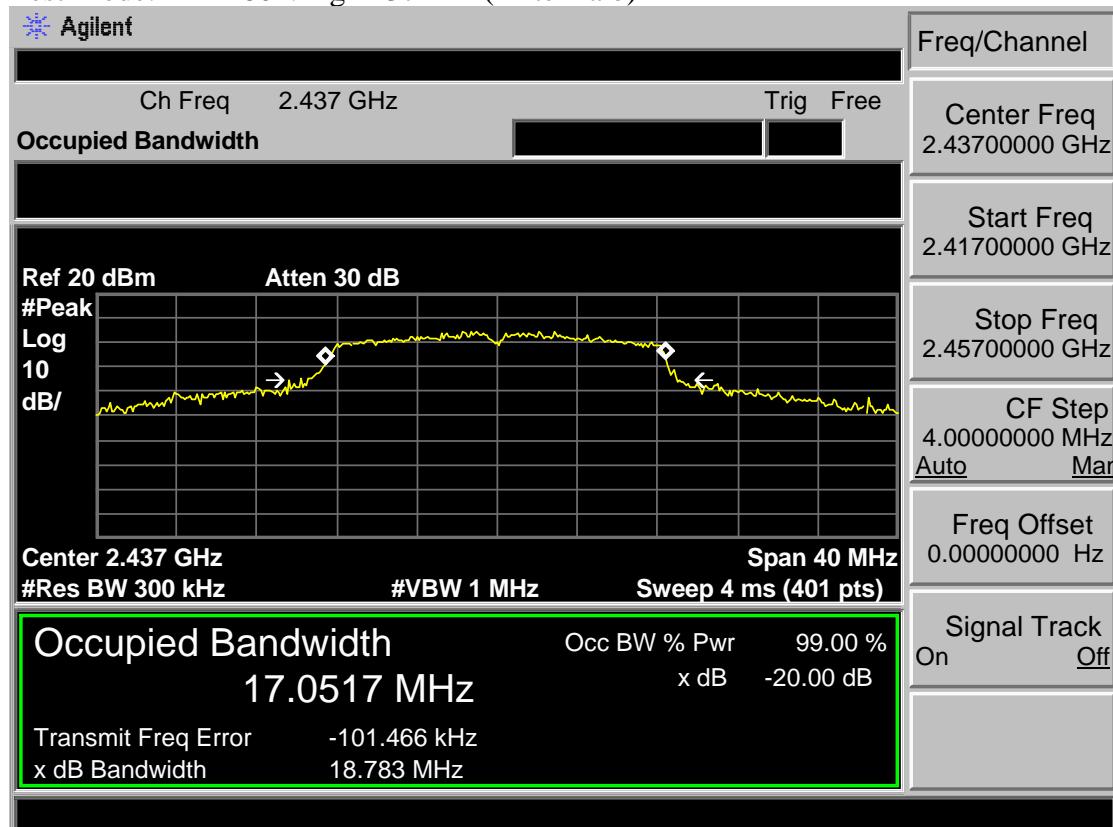
## Test Mode: IEEE 802.11g 2412MHz(Antenna b)



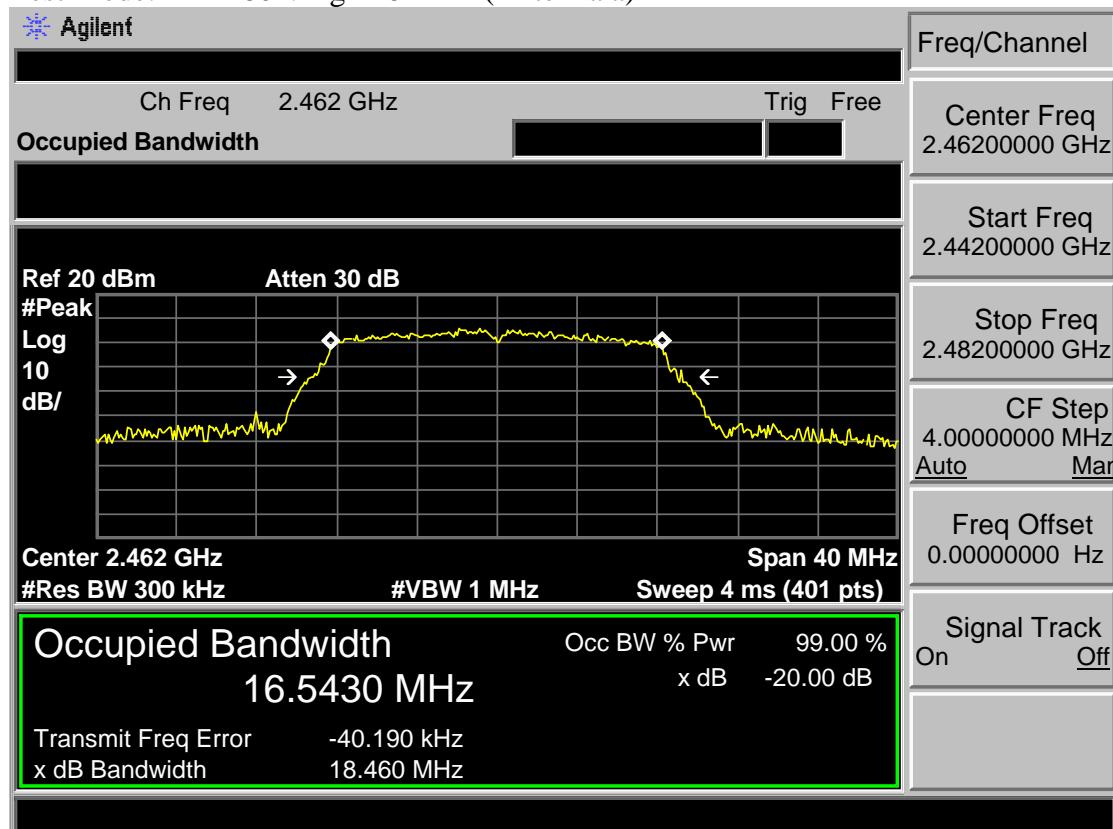
## Test Mode: IEEE 802.11g 2437MHz(Antenna a)



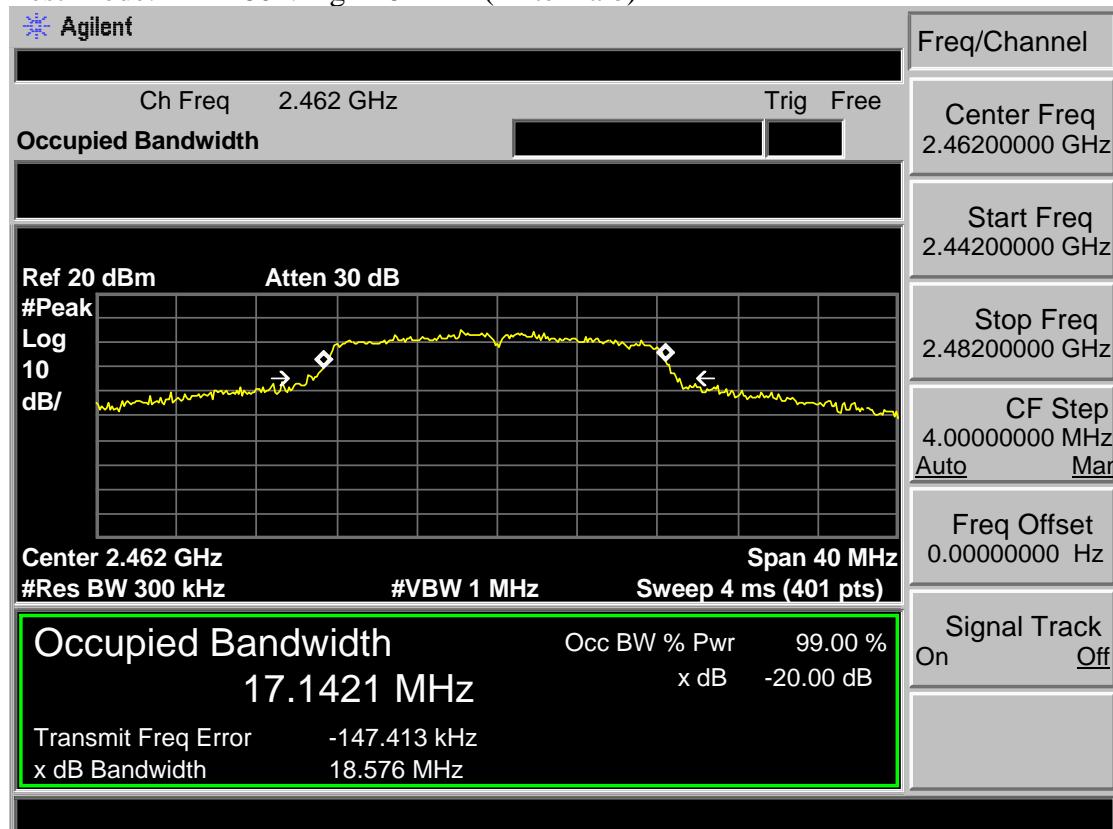
## Test Mode: IEEE 802.11g 2437MHz(Antenna b)



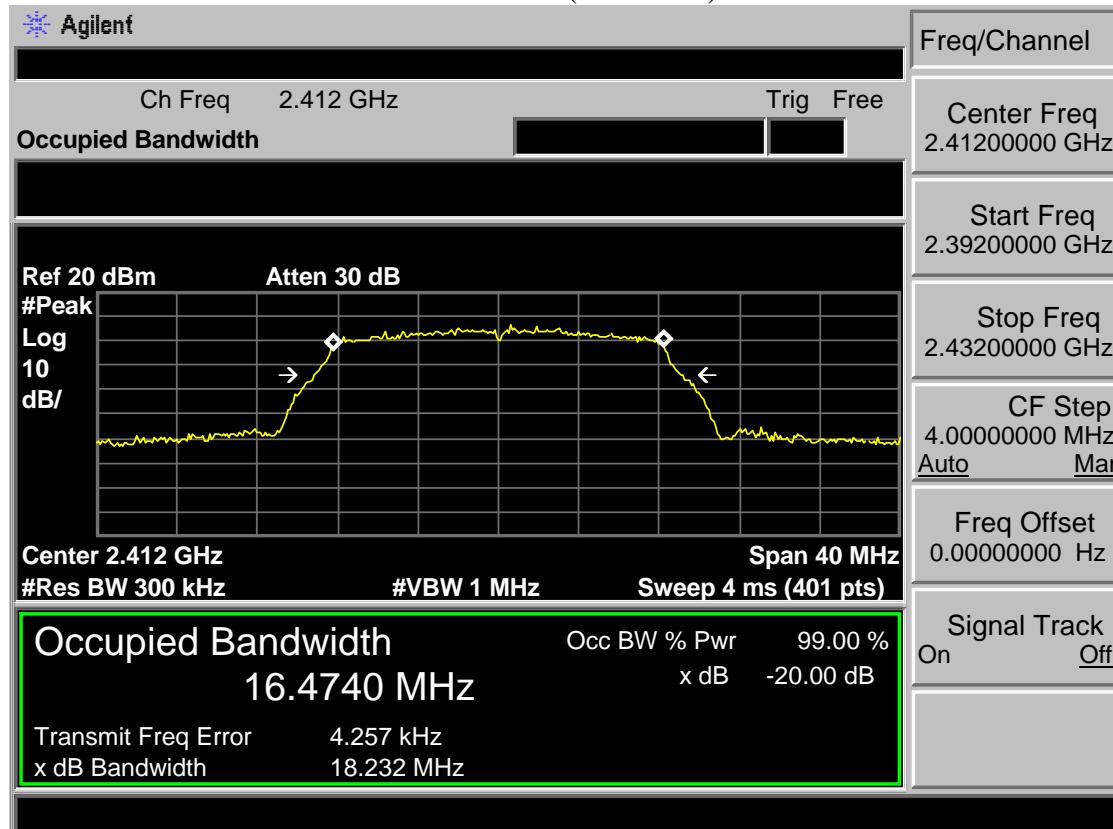
## Test Mode: IEEE 802.11g 2462MHz(Antenna a)



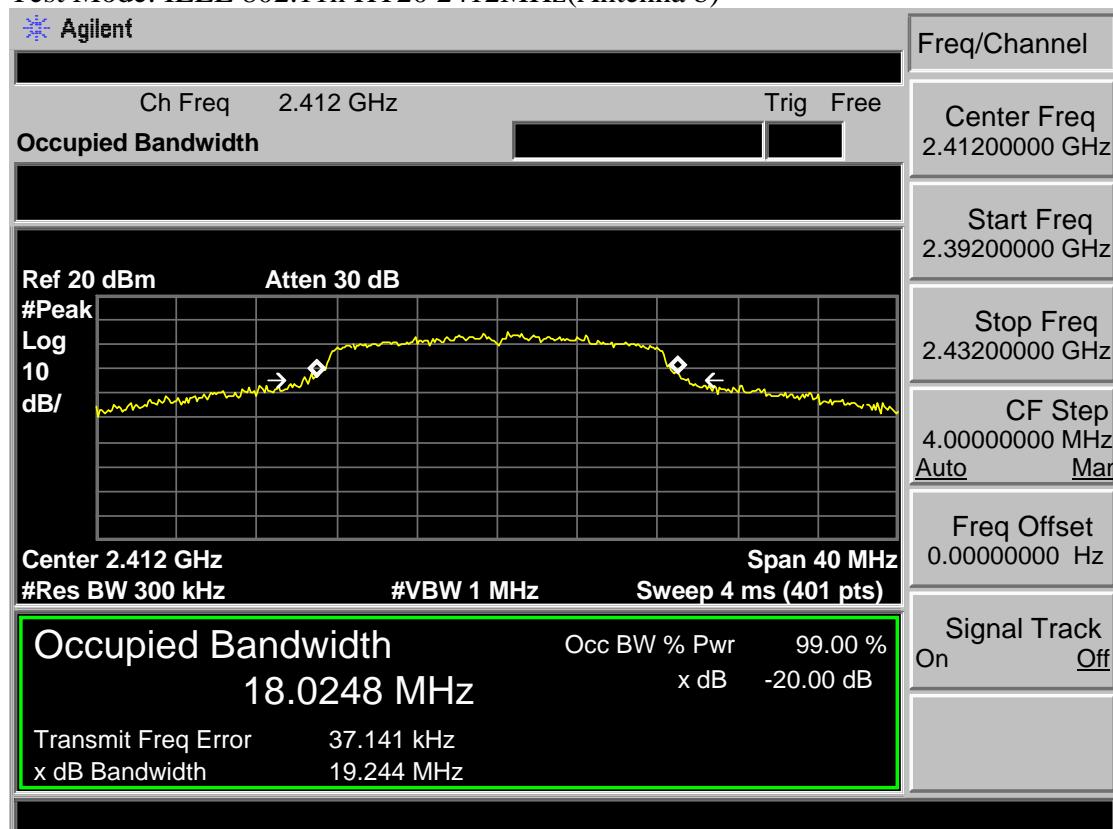
## Test Mode: IEEE 802.11g 2462MHz(Antenna b)



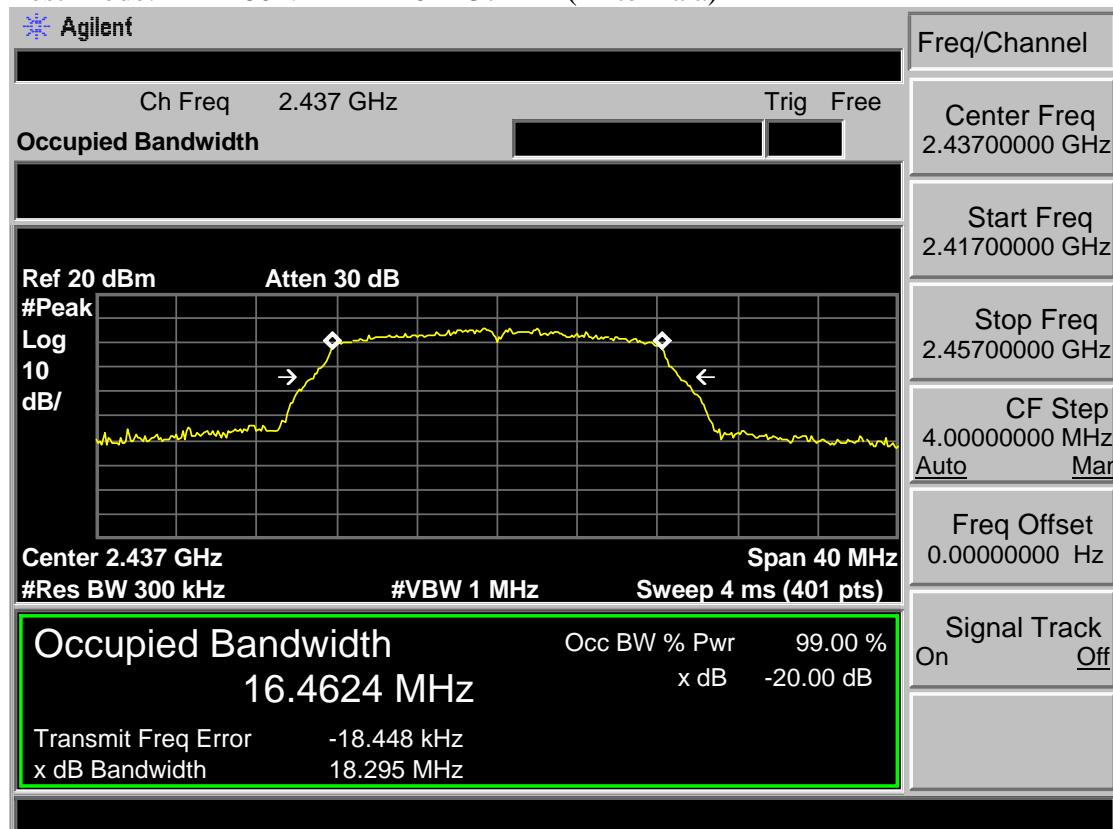
Test Mode: IEEE 802.11n HT20 2412MHz(Antenna a)



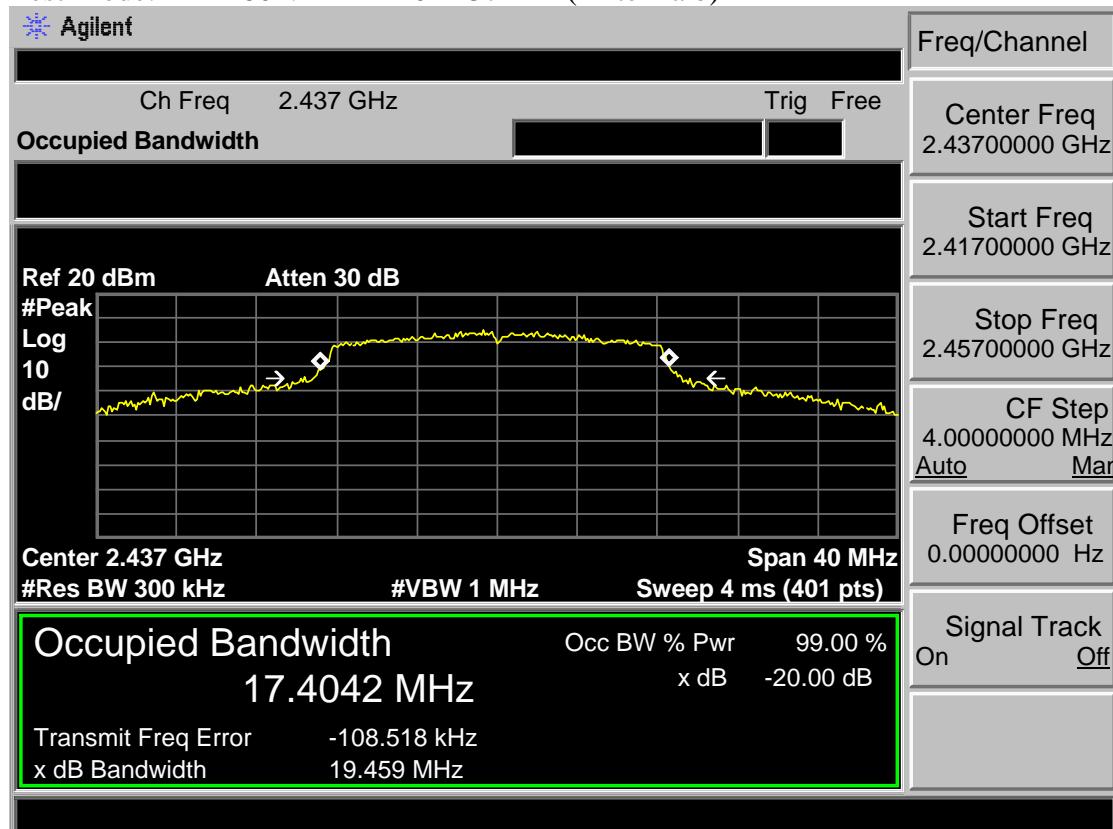
Test Mode: IEEE 802.11n HT20 2412MHz(Antenna b)



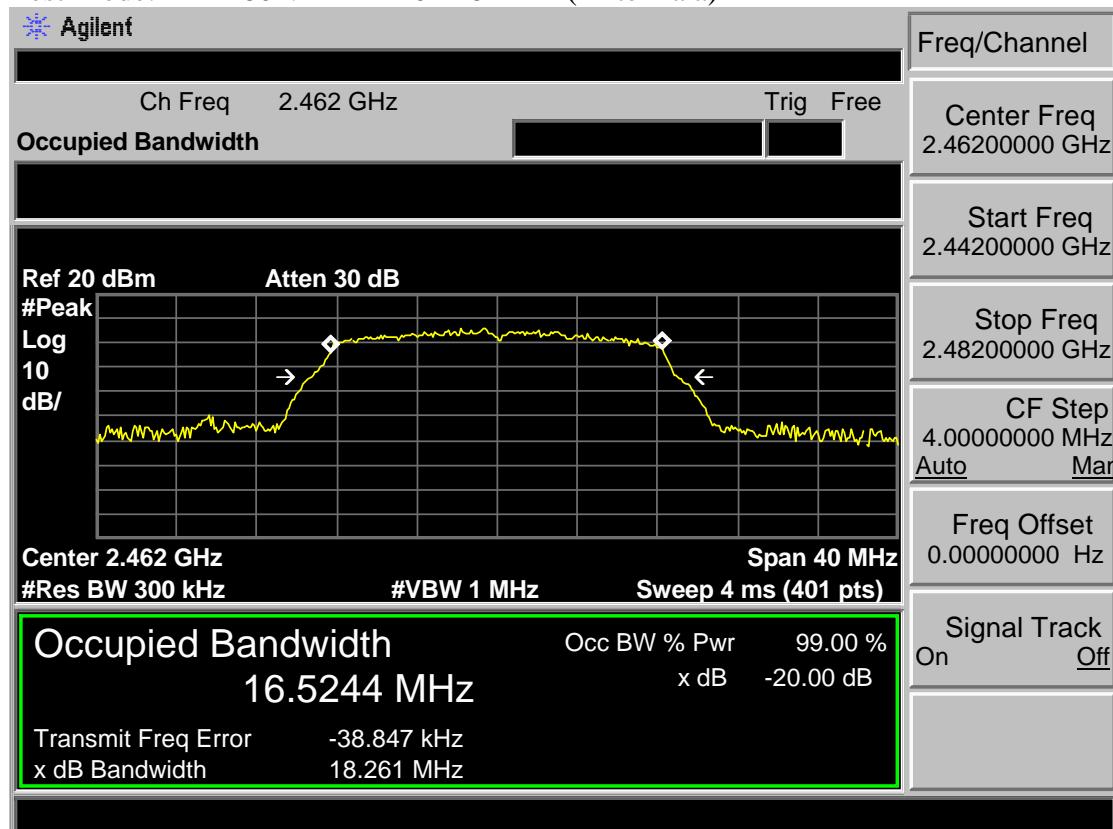
## Test Mode: IEEE 802.11n HT20 2437MHz(Antenna a)



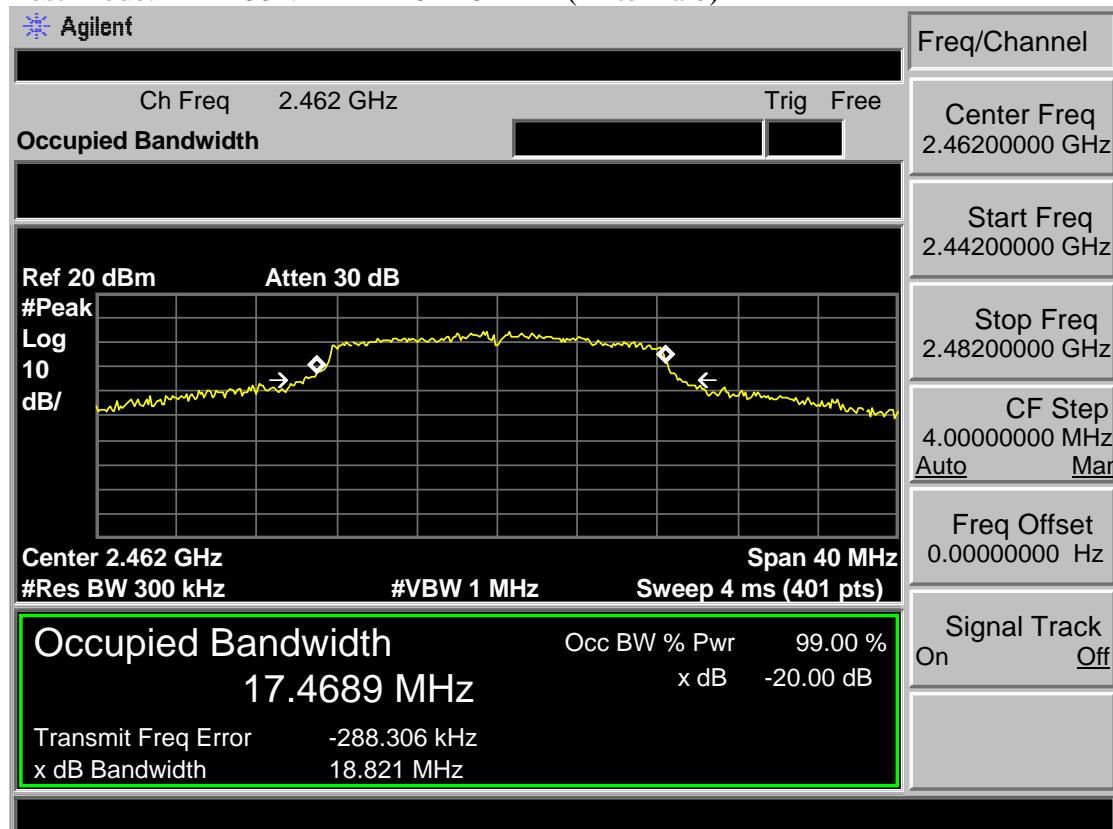
## Test Mode: IEEE 802.11n HT20 2437MHz(Antenna b)



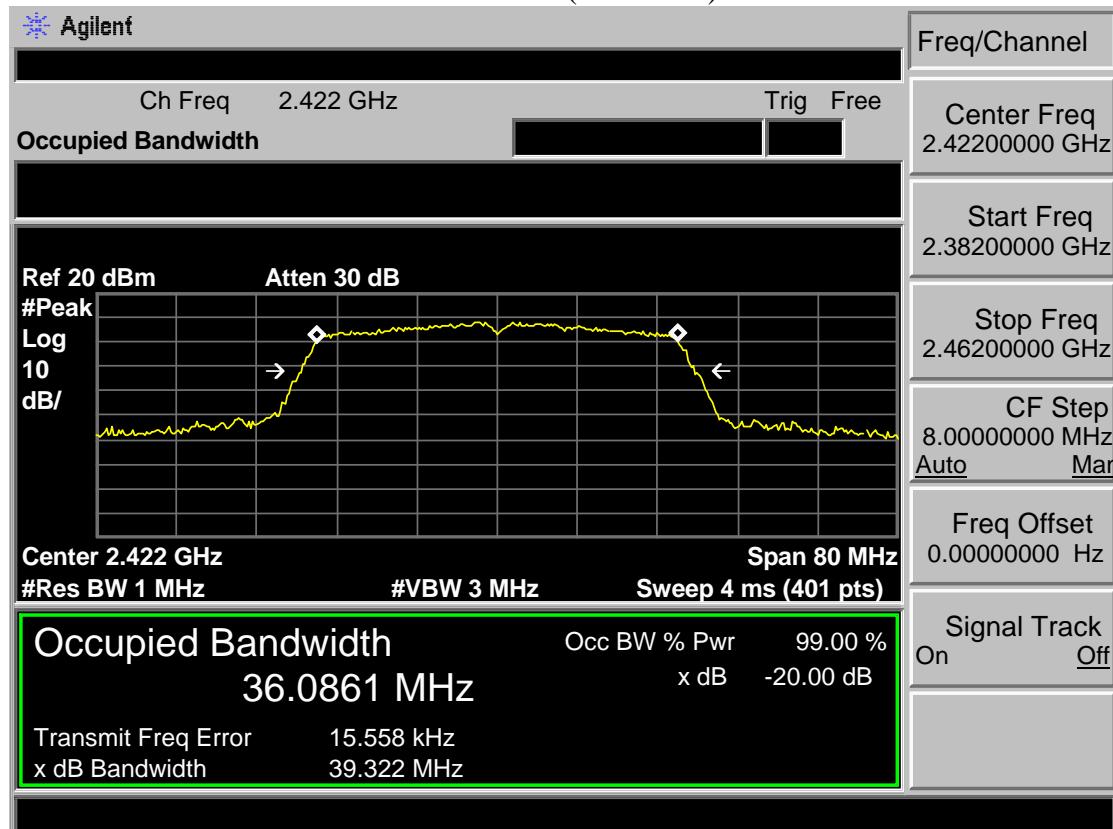
## Test Mode: IEEE 802.11n HT20 2462MHz(Antenna a)



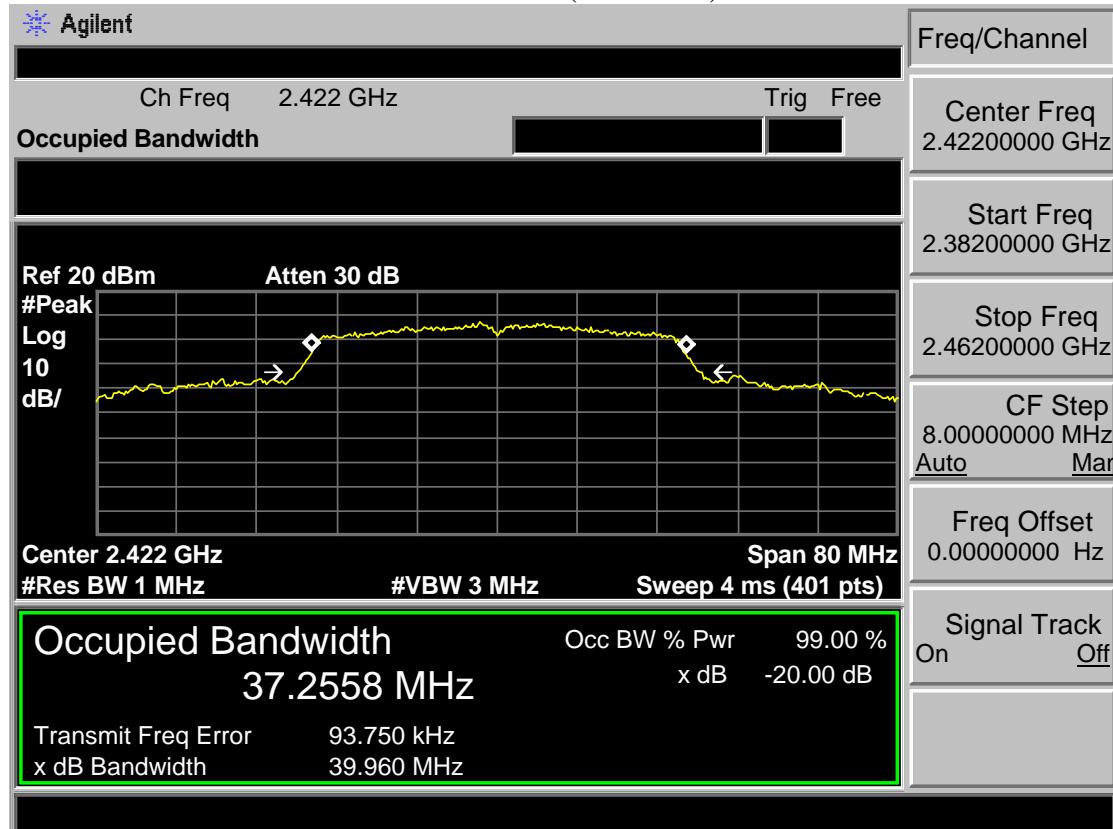
## Test Mode: IEEE 802.11n HT20 2462MHz(Antenna b)



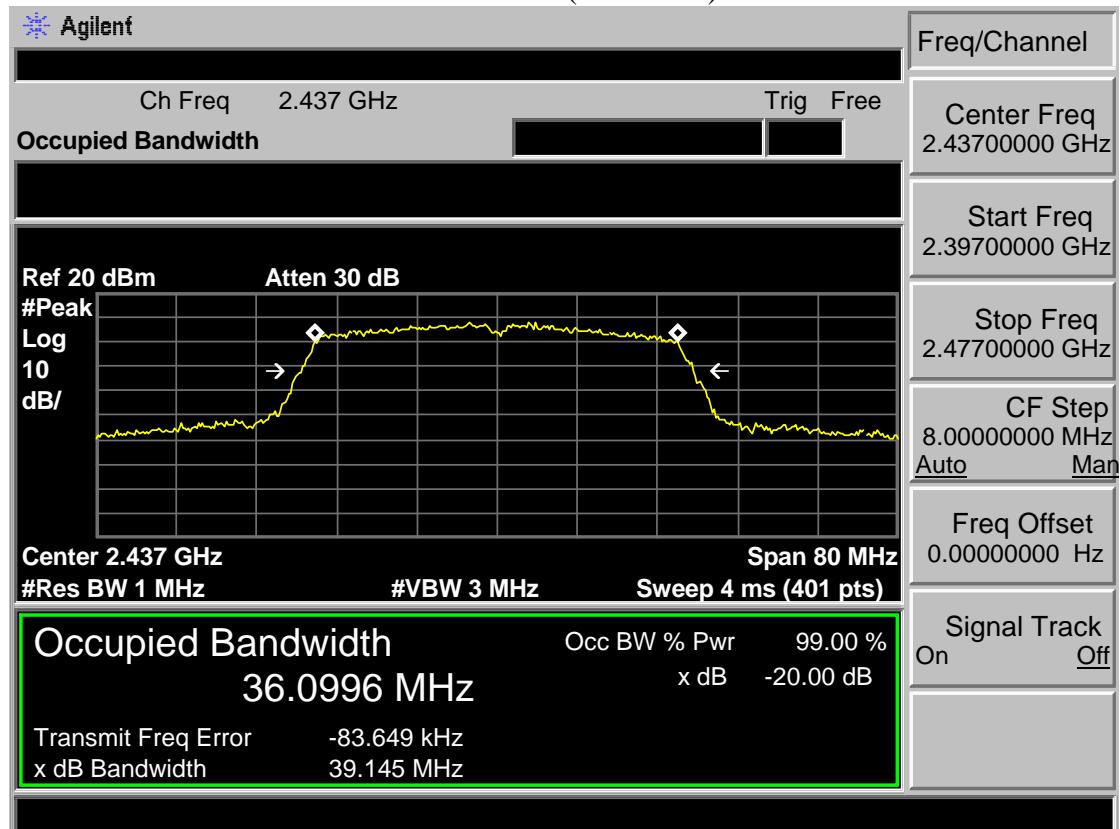
## Test Mode: IEEE 802.11n HT40 2422MHz(Antenna a)



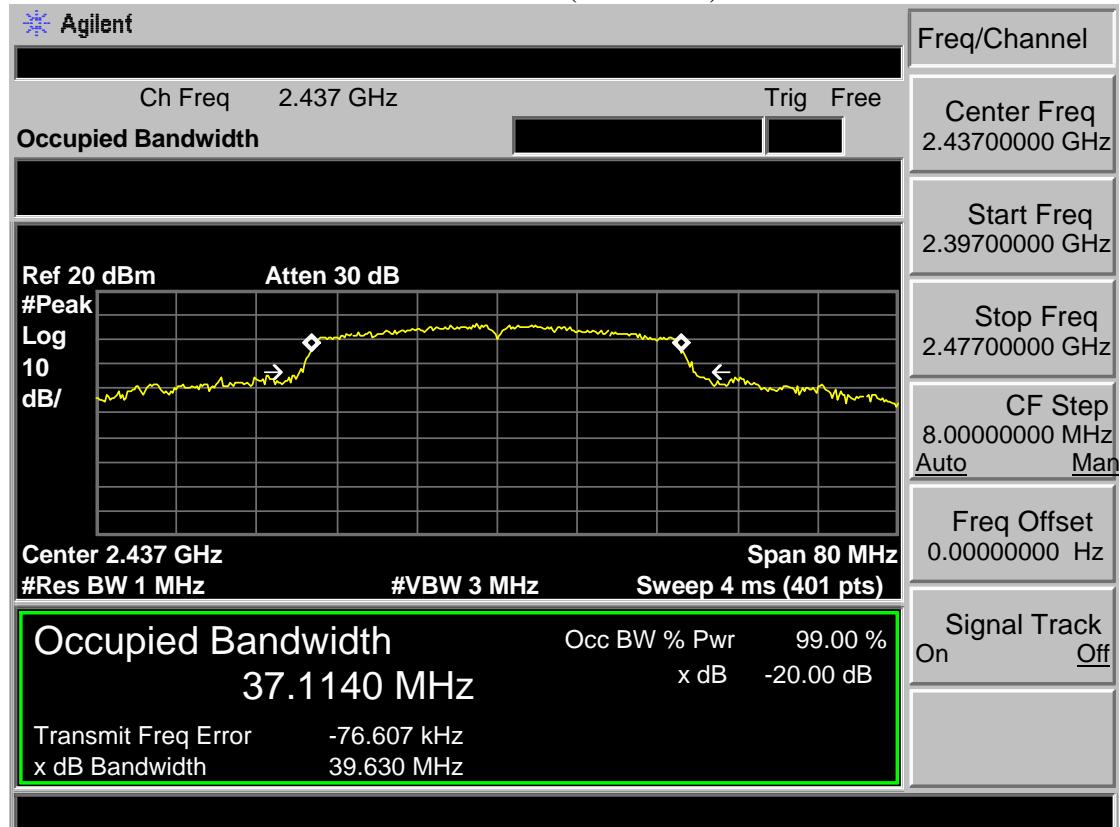
## Test Mode: IEEE 802.11n HT40 2422MHz(Antenna b)



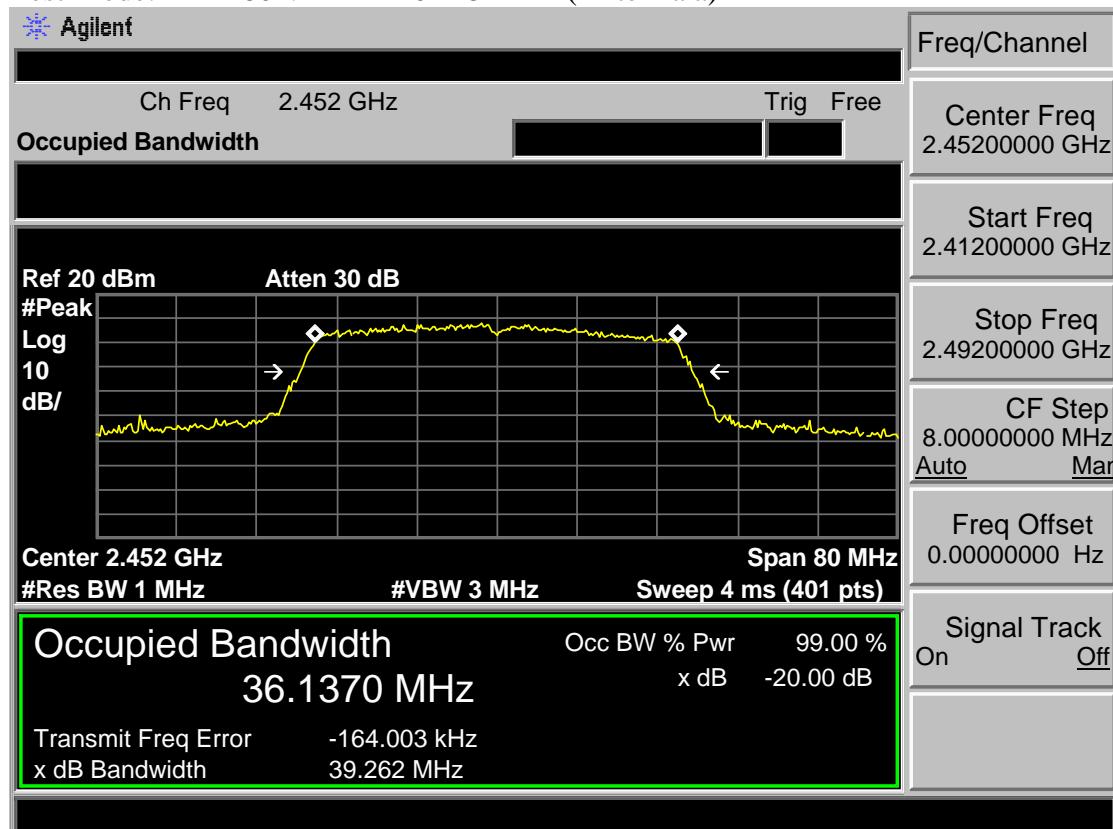
## Test Mode: IEEE 802.11n HT40 2437MHz(Antenna a)



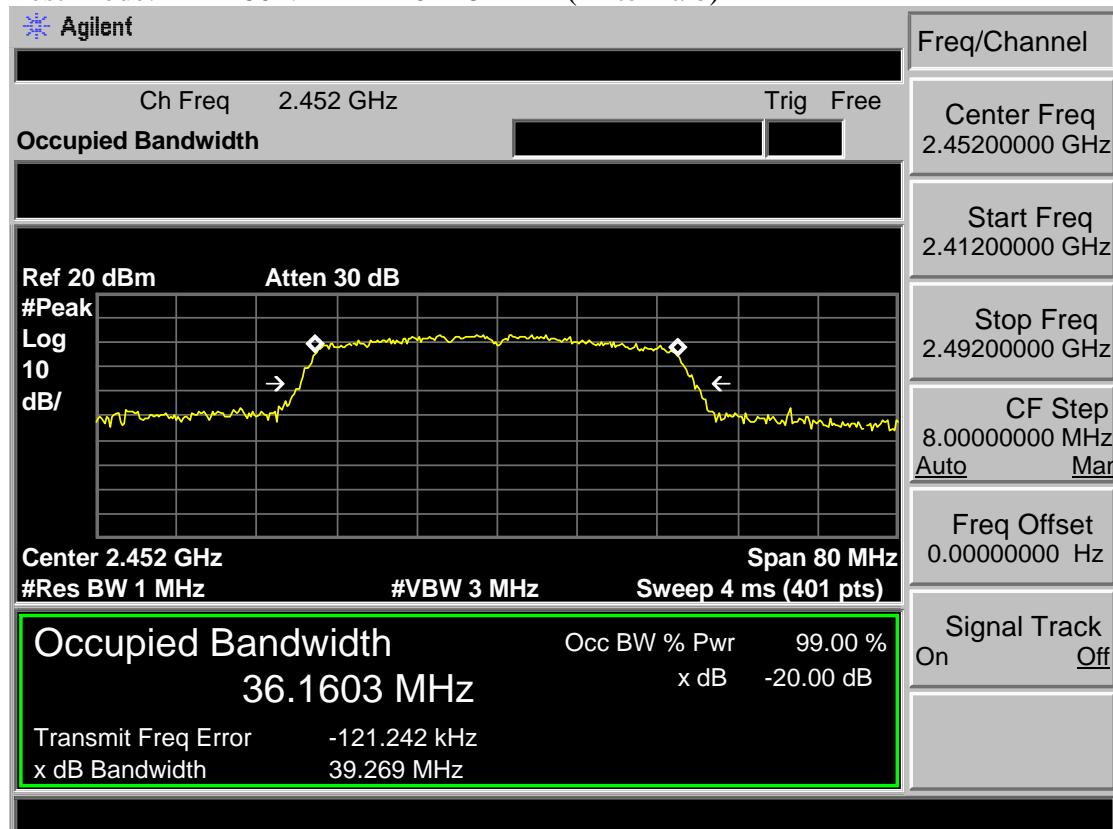
## Test Mode: IEEE 802.11n HT40 2437MHz(Antenna b)



## Test Mode: IEEE 802.11n HT40 2452MHz(Antenna a)



## Test Mode: IEEE 802.11n HT40 2452MHz(Antenna b)



## 7 OUTPUT POWER TEST

### 7.1 Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak output Power shall not exceed 1W(30dBm)

### 7.2 Test Procedure

#### 7.3 Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer device.
- 2, Follow the test procedure as described in KDB 558074
  - (1)Set span to at least 1.5 times the OBW.
  - (2)Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
  - (3)Set VBW  $\geq$  3 x RBW.
  - (4)Number of points in sweep  $\geq 2 \times$  span / RBW. (This gives bin-to-bin spacing  $\leq$  RBW/2, so that narrowband signals are not lost between frequency bins.)
  - (4)Sweep time = auto.
  - (5)Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
  - (6)If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq$  98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
  - (7)Trace average at least 100 traces in power averaging (i.e., RMS) mode.
  - (8)Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

## 7.4 Test Result

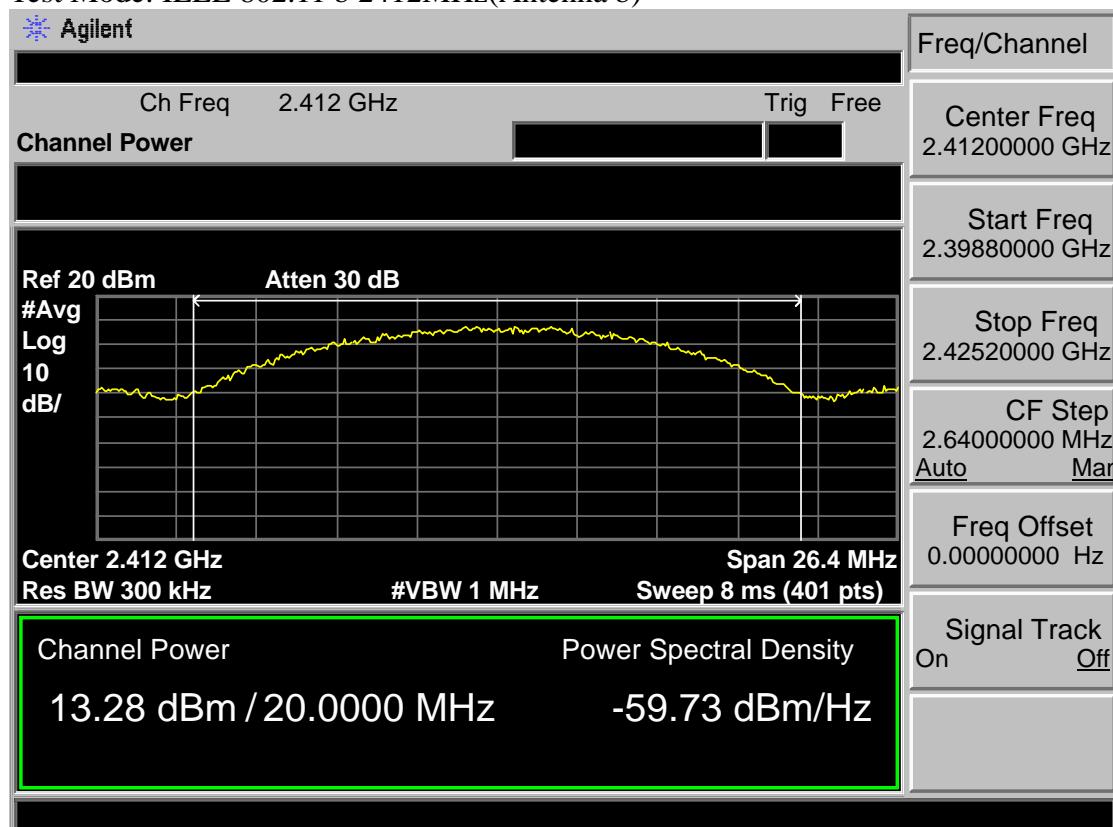
EUT: 38.5inch HD SMART TV							
M/N: ELSW3917BF							
Test date: 2017-06-30	Test site: 3m Chamber		Tested by: Seven				
Pass							
Test Mode	CH	Conducted Power (dBm)			Limit (dBm)		
		ANT a	ANT b	Total			
IEEE 802.11 b	CH1	15.32	13.28	/	30		
	CH6	14.77	13.33	/	30		
	CH11	14.12	13.74	/	30		
IEEE 802.11 g	CH1	11.12	9.68	/	30		
	CH6	10.94	9.51	/	30		
	CH11	10.64	9.94	/	30		
IEEE 802.11 n HT 20	CH1	10.76	8.81	12.90	30		
	CH6	10.97	9.91	13.48	30		
	CH11	10.26	9.48	12.90	30		
IEEE 802.11 n HT 40	CH3	8.14	7.07	10.65	30		
	CH6	8.10	6.99	10.59	30		
	CH9	8.78	4.34	10.11	30		
Conclusion : PASS							

## 7.5 Test Data

Test Mode: IEEE 802.11 b 2412MHz(Antenna a)



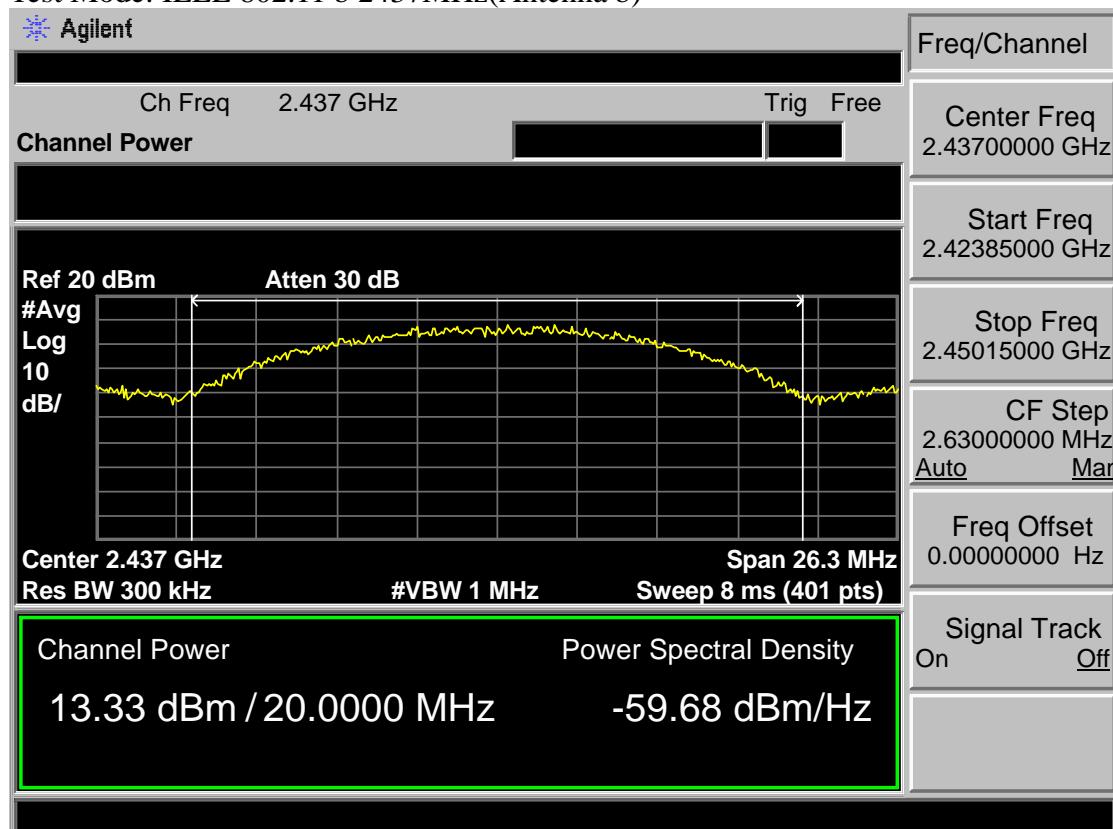
Test Mode: IEEE 802.11 b 2412MHz(Antenna b)



## Test Mode: IEEE 802.11 b 2437MHz(Antenna a)



## Test Mode: IEEE 802.11 b 2437MHz(Antenna b)



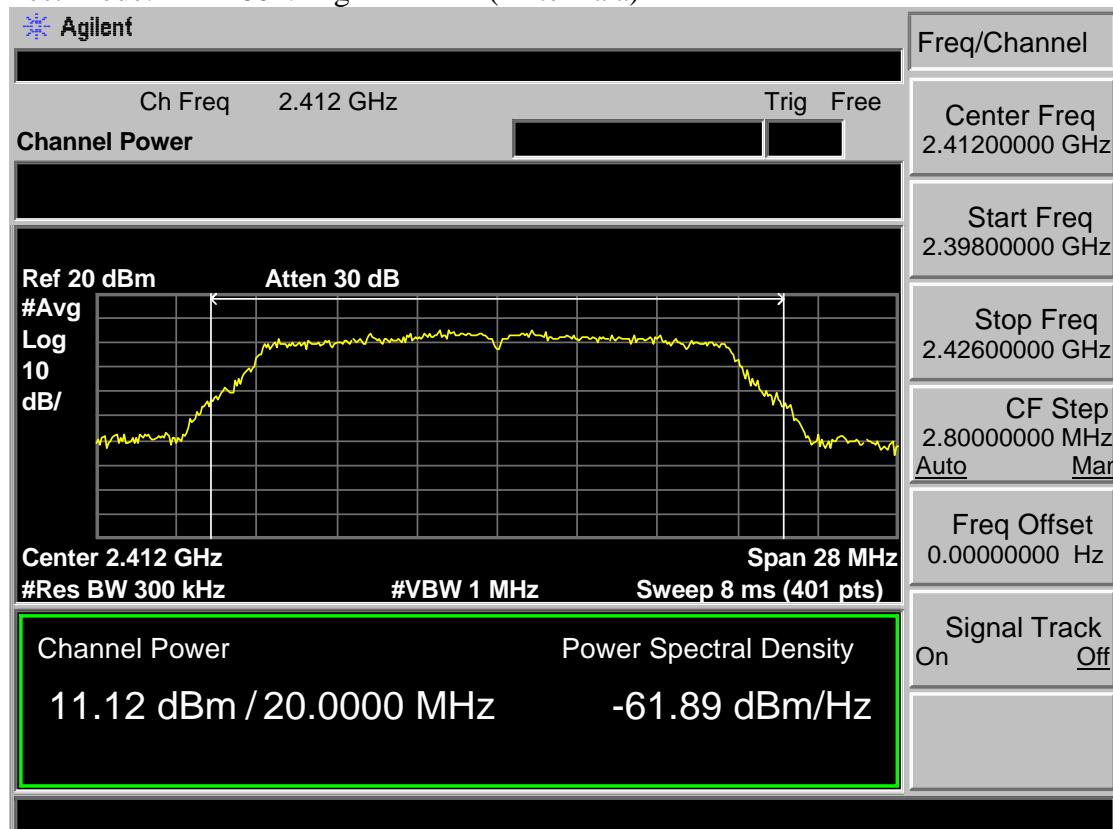
## Test Mode: IEEE 802.11 b 2462MHz(Antenna a)



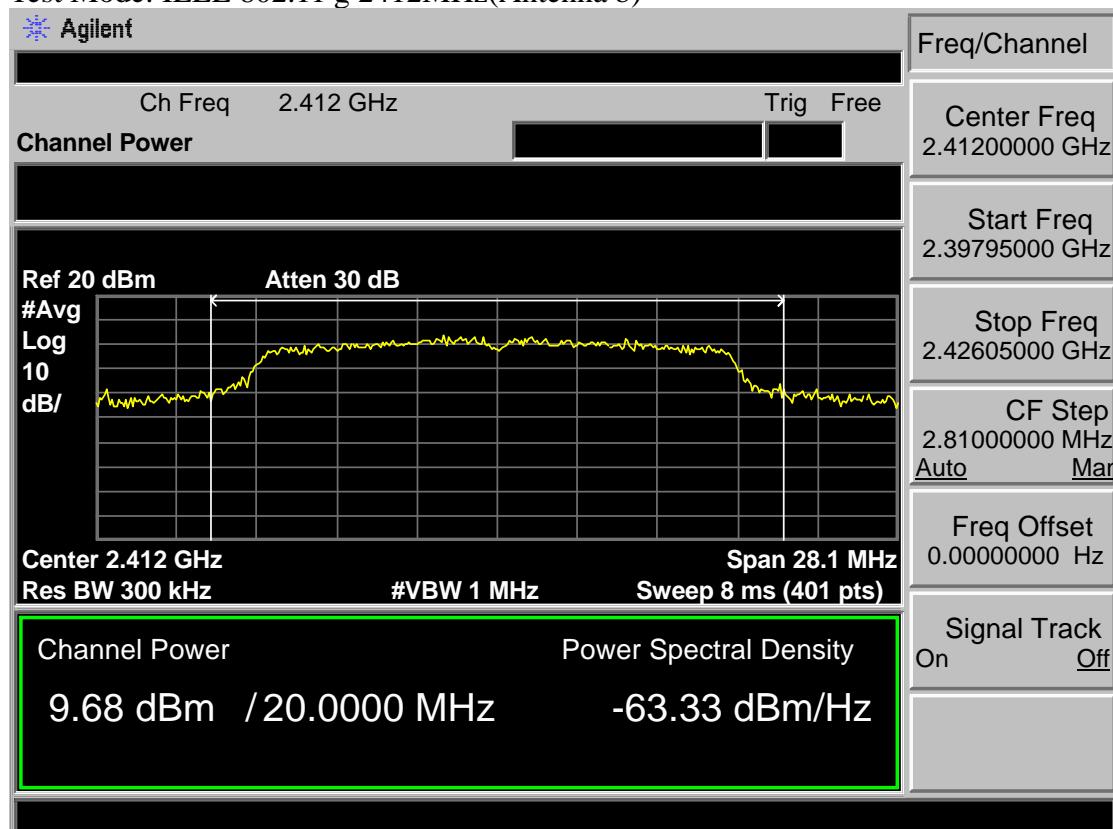
## Test Mode: IEEE 802.11 b 2462MHz(Antenna b)



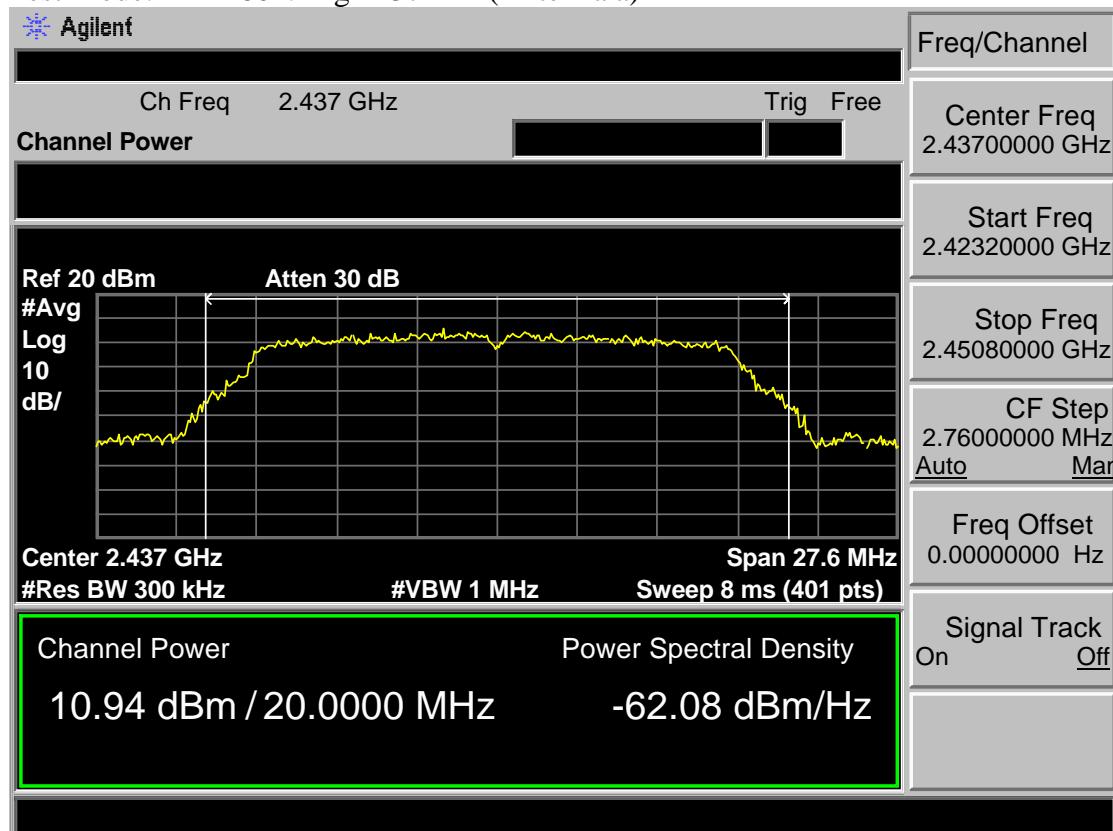
## Test Mode: IEEE 802.11 g 2412MHz(Antenna a)



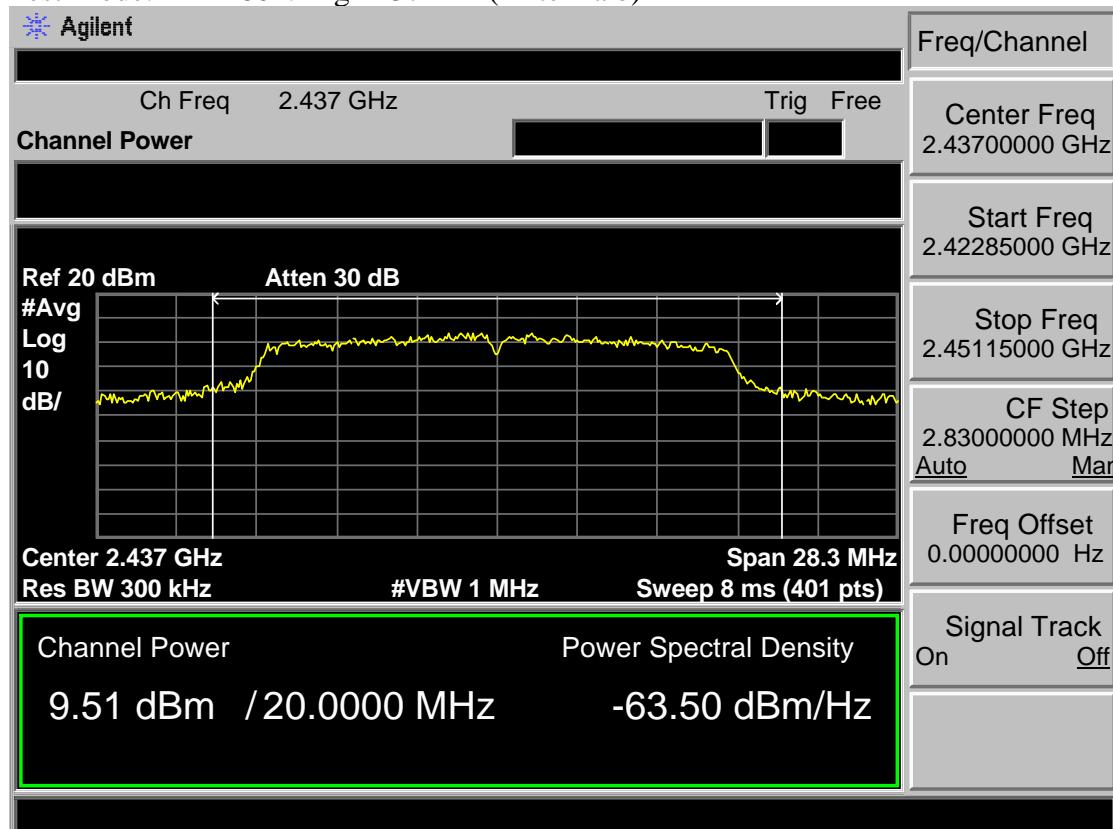
## Test Mode: IEEE 802.11 g 2412MHz(Antenna b)



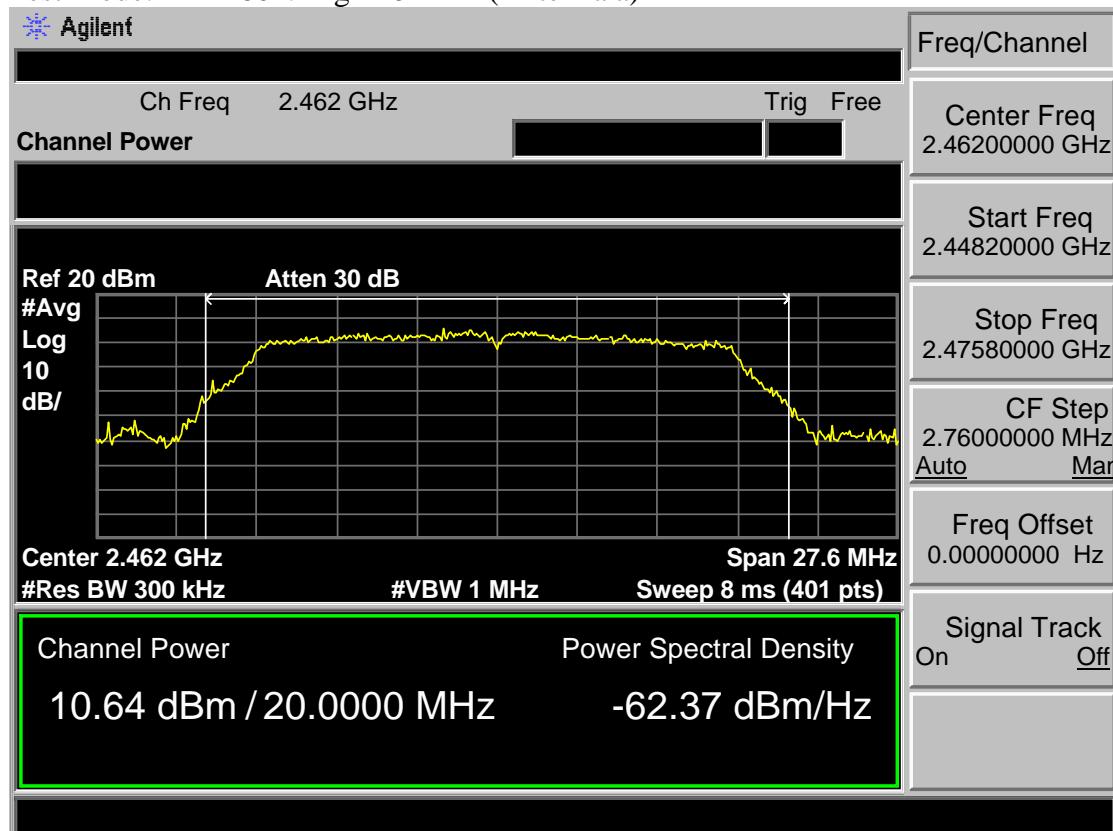
## Test Mode: IEEE 802.11 g 2437MHz(Antenna a)



## Test Mode: IEEE 802.11 g 2437MHz(Antenna b)



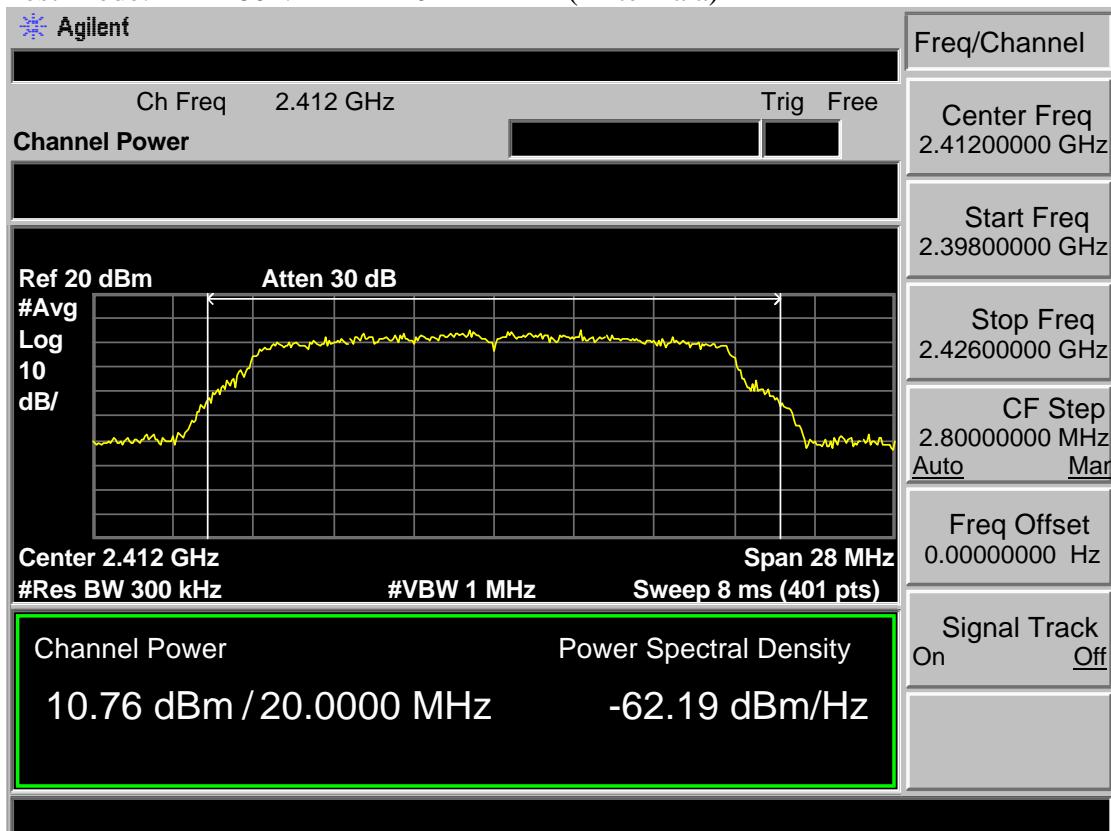
## Test Mode: IEEE 802.11 g 2462MHz(Antenna a)



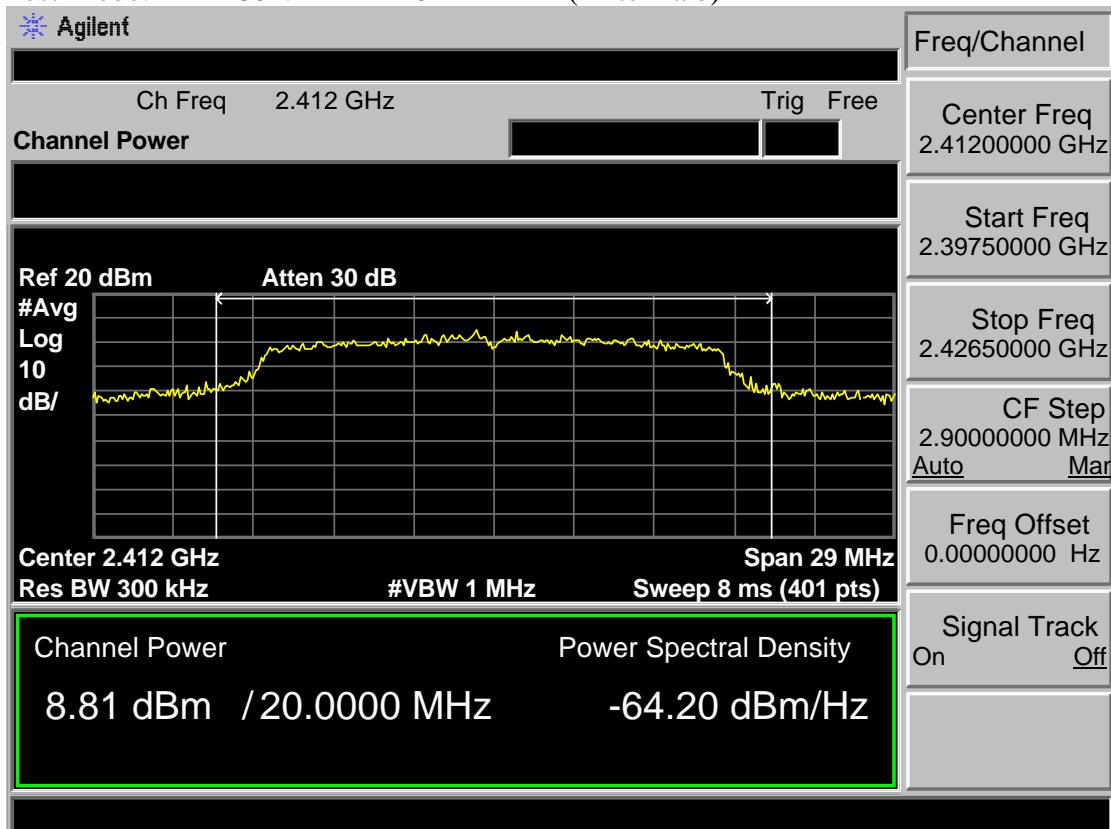
## Test Mode: IEEE 802.11 g 2462MHz(Antenna b)



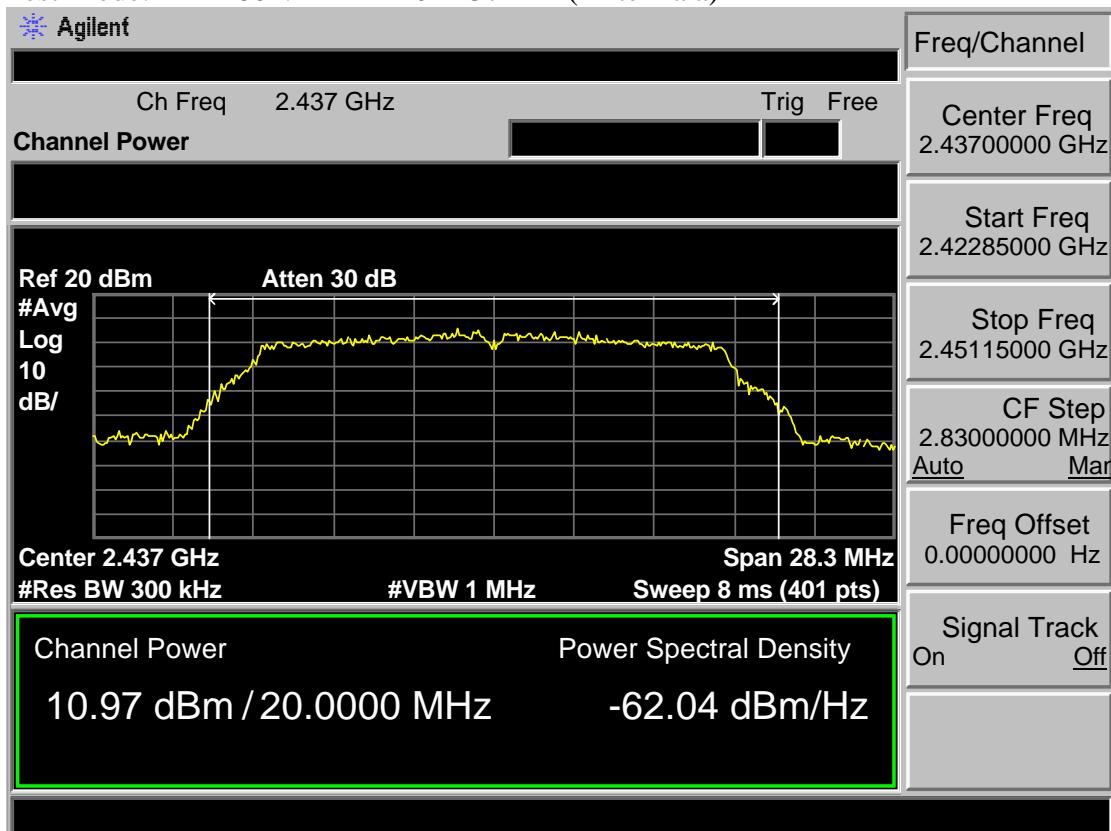
## Test Mode: IEEE 802.11 n HT20 2412MHz(Antenna a)



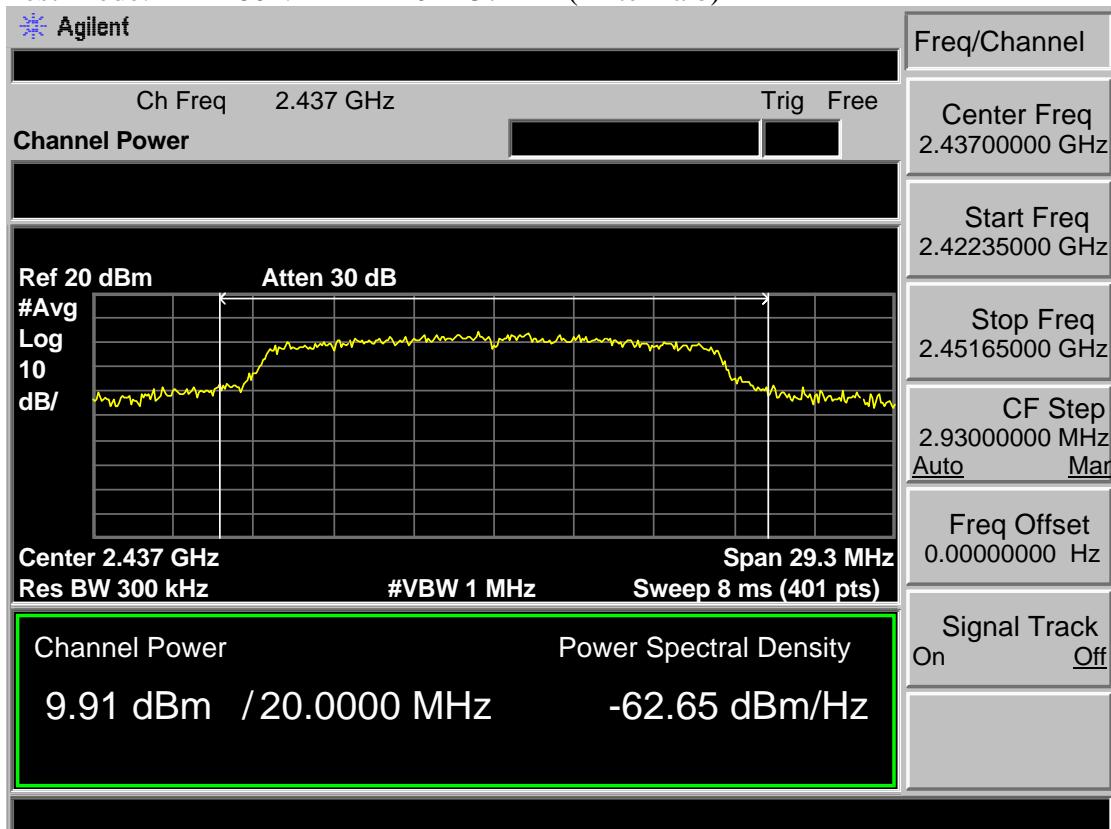
## Test Mode: IEEE 802.11 n HT20 2412MHz(Antenna b)



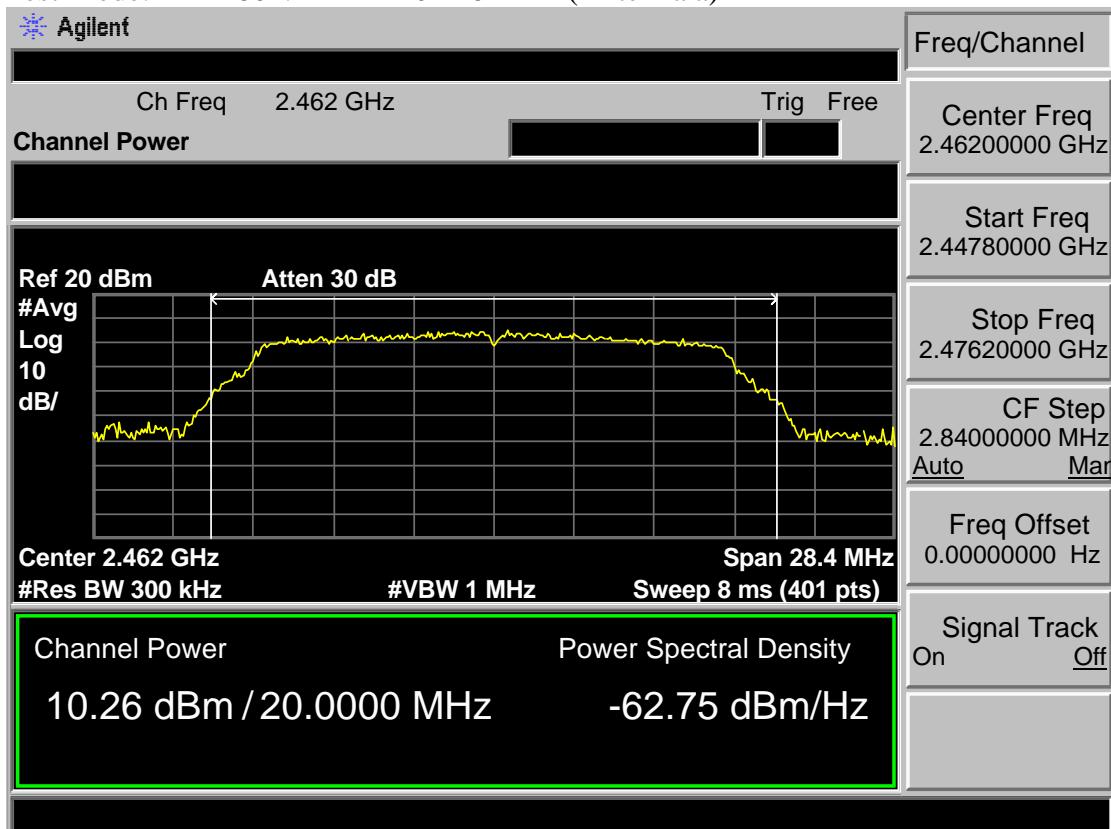
## Test Mode: IEEE 802.11 n HT20 2437MHz(Antenna a)



## Test Mode: IEEE 802.11 n HT20 2437MHz(Antenna b)



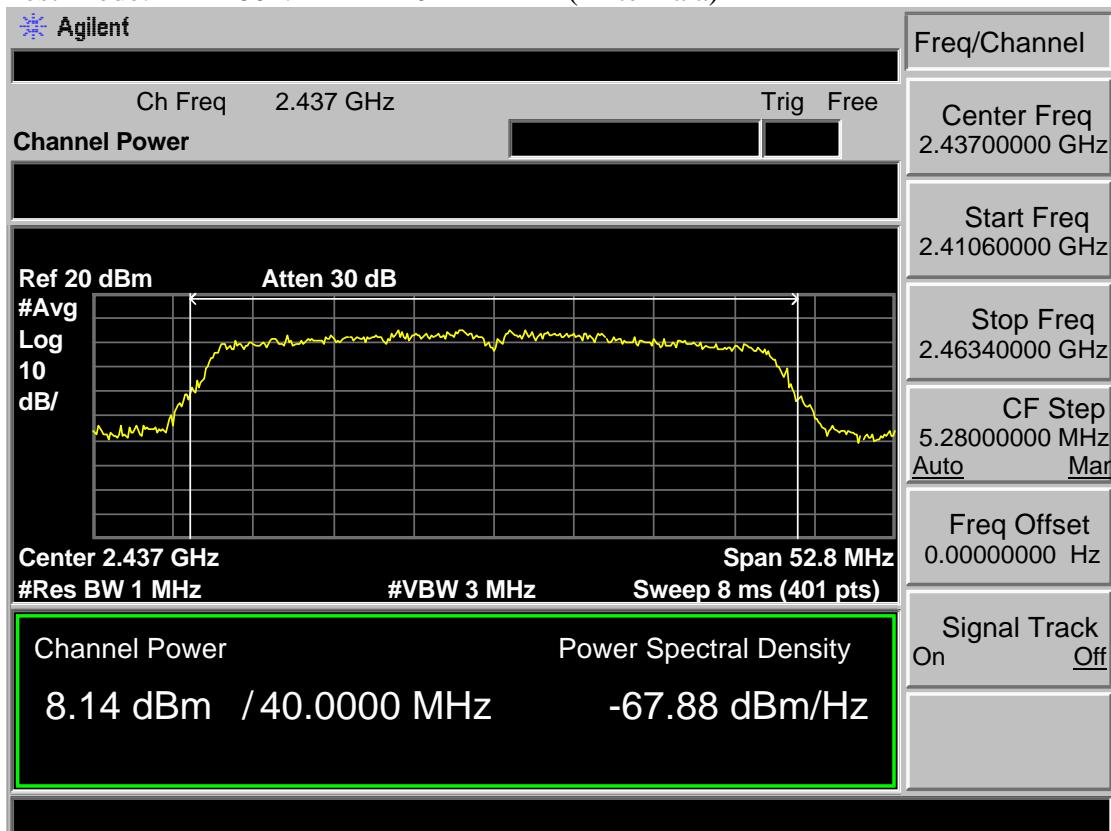
## Test Mode: IEEE 802.11 n HT20 2462MHz(Antenna a)



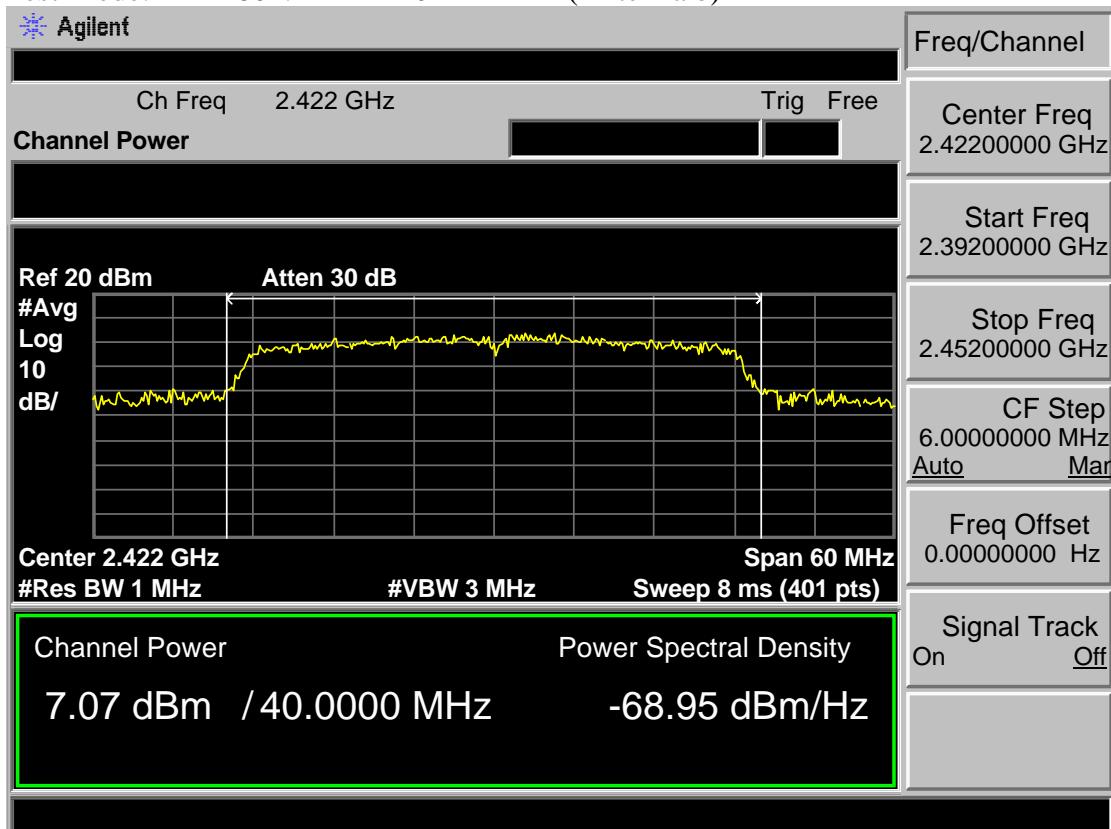
## Test Mode: IEEE 802.11 n HT20 2462MHz(Antenna b)



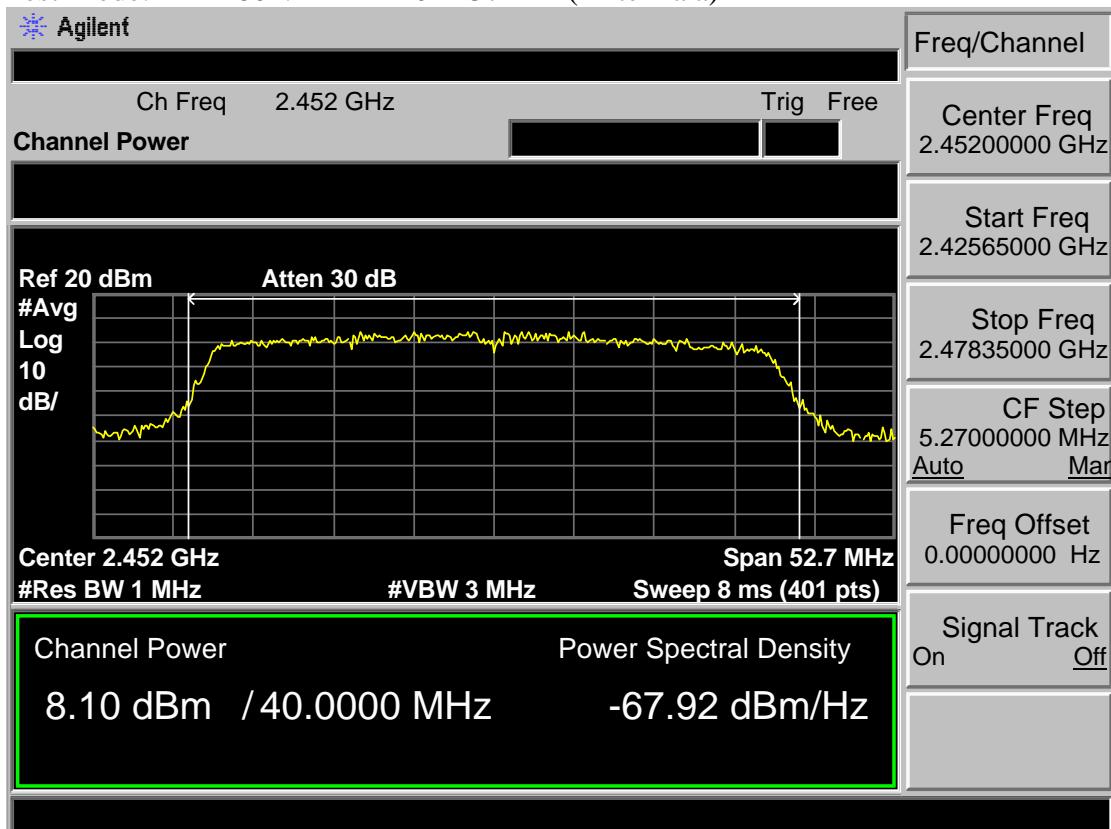
## Test Mode: IEEE 802.11 n HT40 2422MHz(Antenna a)



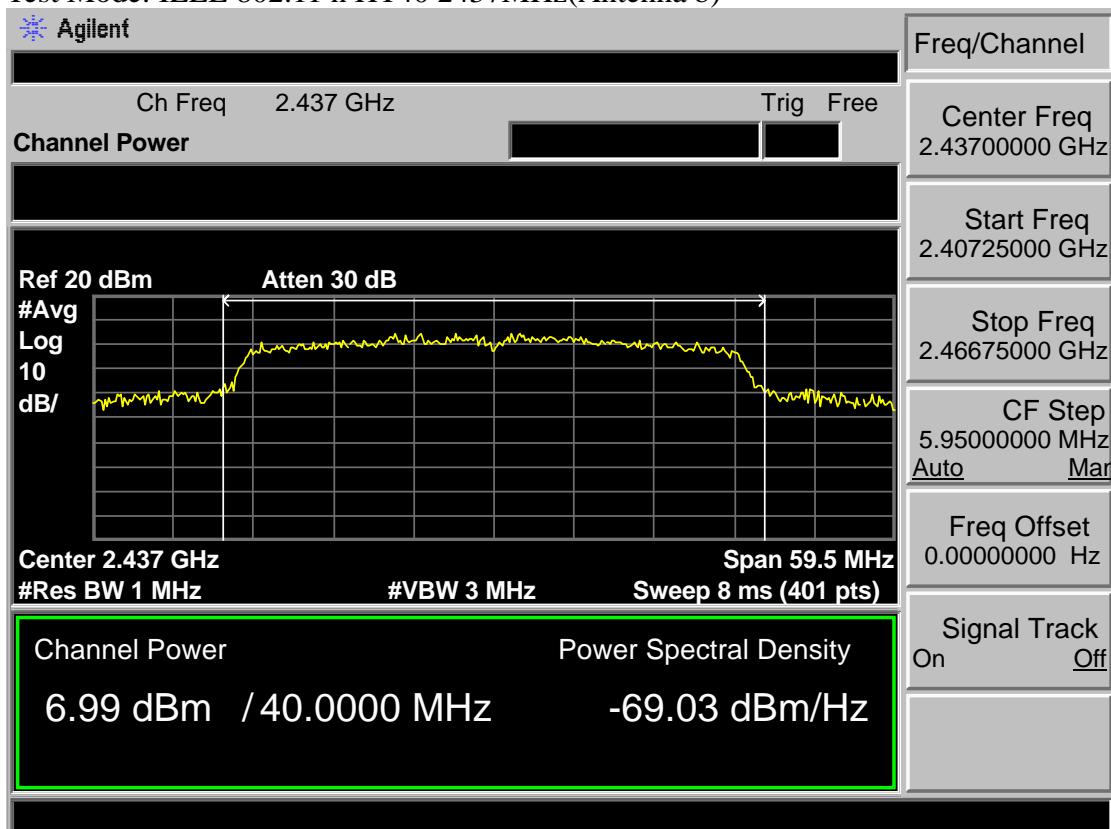
## Test Mode: IEEE 802.11 n HT40 2422MHz(Antenna b)



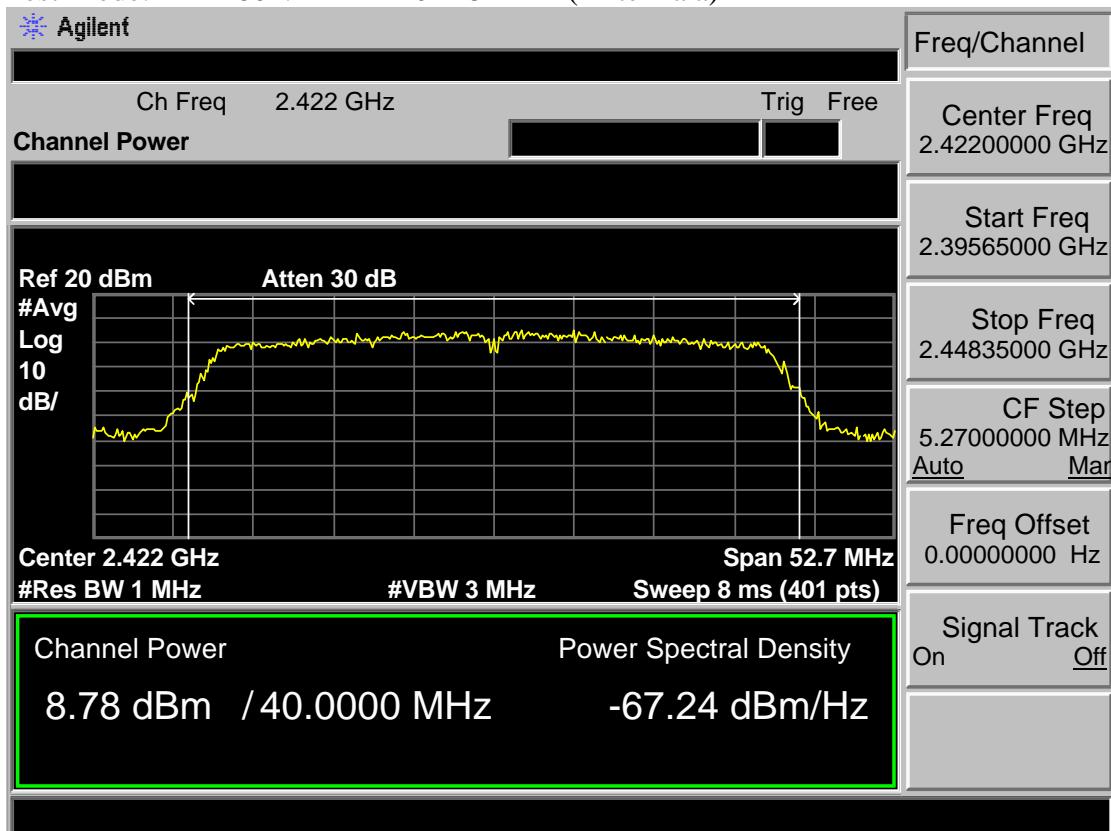
## Test Mode: IEEE 802.11 n HT40 2437MHz(Antenna a)



## Test Mode: IEEE 802.11 n HT40 2437MHz(Antenna b)



## Test Mode: IEEE 802.11 n HT40 2452MHz(Antenna a)



## Test Mode: IEEE 802.11 n HT40 2452MHz(Antenna b)



## 8 POWER SPECTRAL DENSITY TEST

### 8.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 8.2 Test Procedure

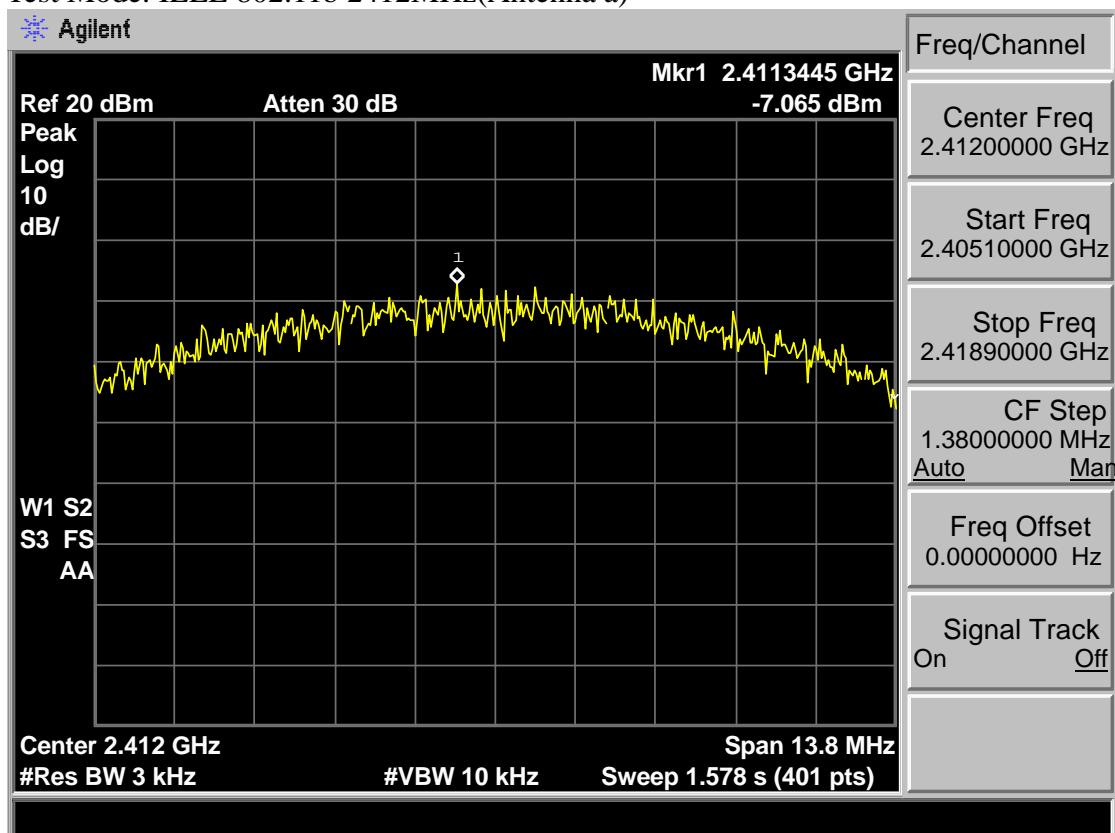
- 1, Connected the EUT's antenna port to spectrum analyzer device.
- 2, Follow the test procedure as described in KDB 558074
  - (1). Set analyzer center frequency to DTS channel center frequency.
  - (2). Set the span to 1.5 times the DTS bandwidth.
  - (3). Set the RBW to:  $3 \text{ kHz} \leqslant \text{RBW} \leqslant 100 \text{ kHz}$ .
  - (4). Set the VBW  $\geqslant 3 \text{ RBW}$ .
  - (5). Detector = peak.
  - (6). Sweep time = auto couple.
  - (7). Trace mode = max hold.
  - (8). Allow trace to fully stabilize.
  - (9). Use the peak marker function to determine the maximum amplitude level.
  - (10). If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 8.3 Test Result

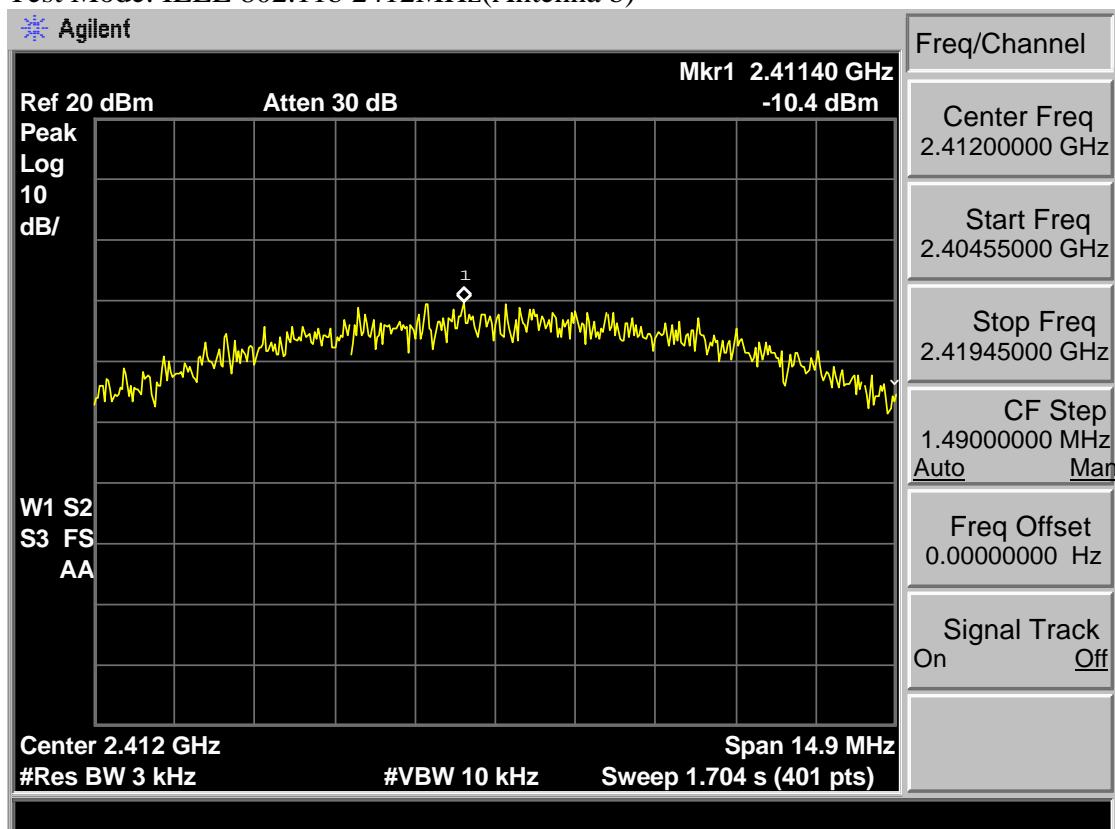
EUT: 38.5inch HD SMART TV							
M/N: ELSW3917BF							
Test date: 2017-06-30	Test site: 3m Chamber		Tested by: Seven				
Pass							
Test Mode	CH	Power density ( dBm/3kHz )			Limit (dBm/3kHz)		
		ANT a	ANT b	Total			
IEEE 802.11 b	CH1	-7.065	-10.400	/	8		
	CH6	-7.141	-8.938	/	8		
	CH11	-7.129	-9.365	/	8		
IEEE 802.11 g	CH1	-13.020	-14.730	/	8		
	CH6	-13.580	-13.560	/	8		
	CH11	-12.180	-13.510	/	8		
IEEE 802.11 n HT 20	CH1	-13.200	-13.680	-10.42	8		
	CH6	-13.530	-13.500	-10.50	8		
	CH11	-13.030	-14.530	-10.71	8		
IEEE 802.11 n HT 40	CH3	-16.780	-18.310	-14.47	8		
	CH6	-15.340	-15.700	-12.51	8		
	CH9	-16.430	-20.970	-15.12	8		
Conclusion : PASS							

## 8.4 Test Data

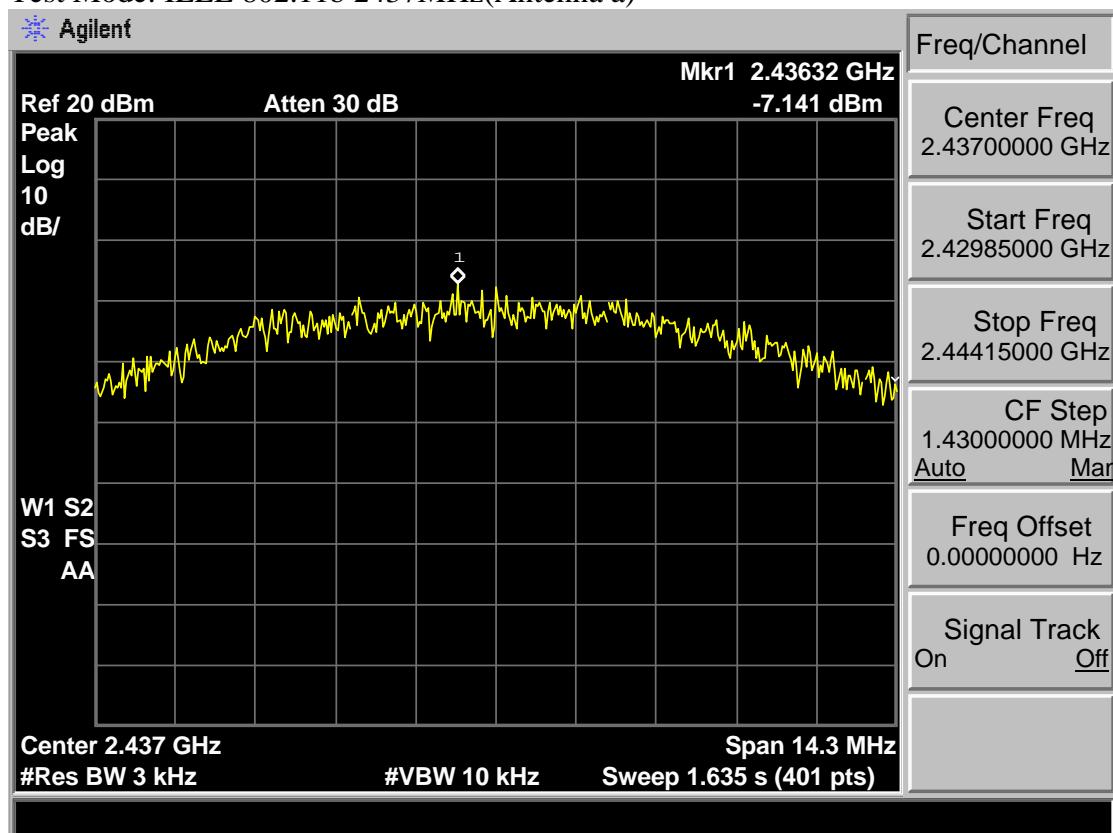
Test Mode: IEEE 802.11b 2412MHz(Antenna a)



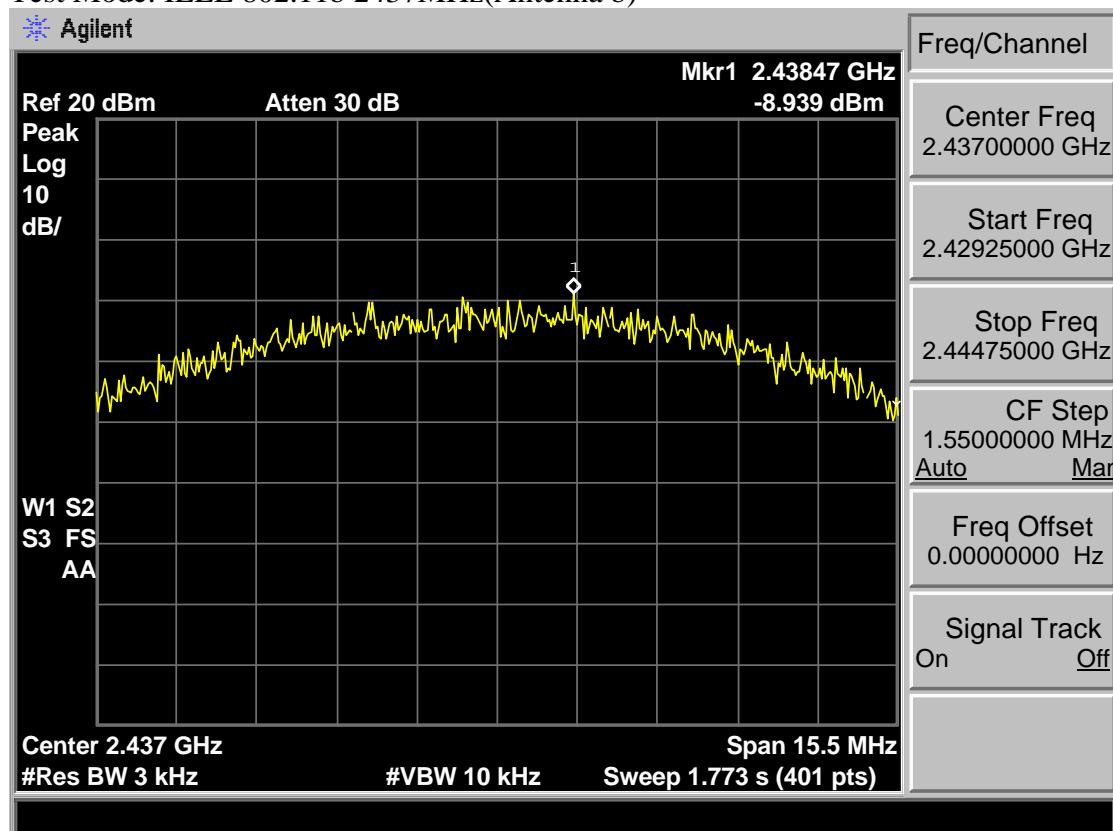
Test Mode: IEEE 802.11b 2412MHz(Antenna b)



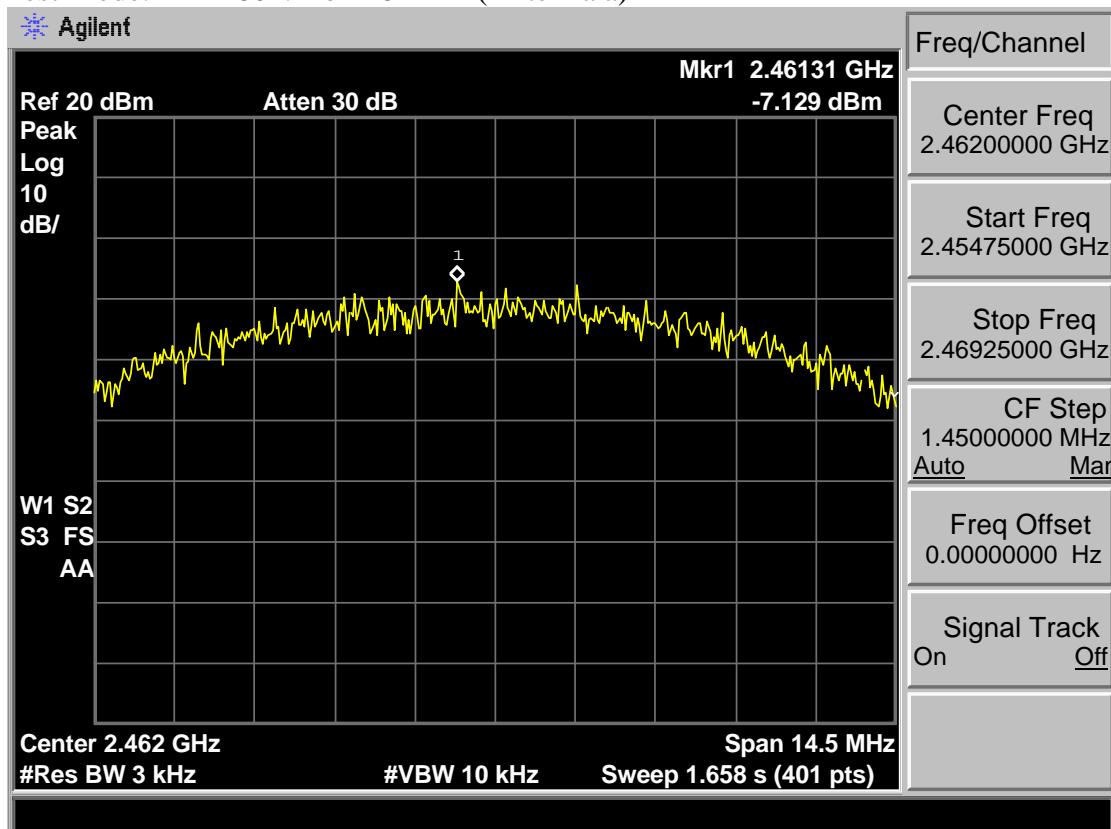
## Test Mode: IEEE 802.11b 2437MHz(Antenna a)



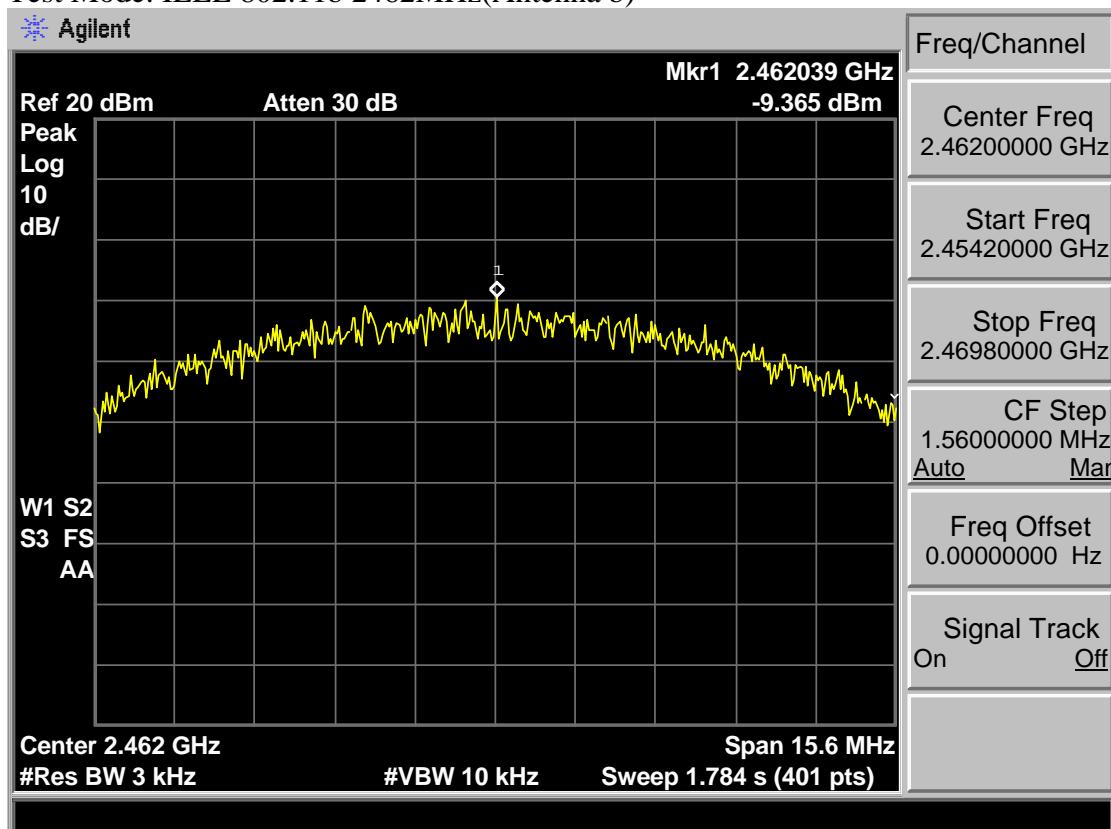
## Test Mode: IEEE 802.11b 2437MHz(Antenna b)



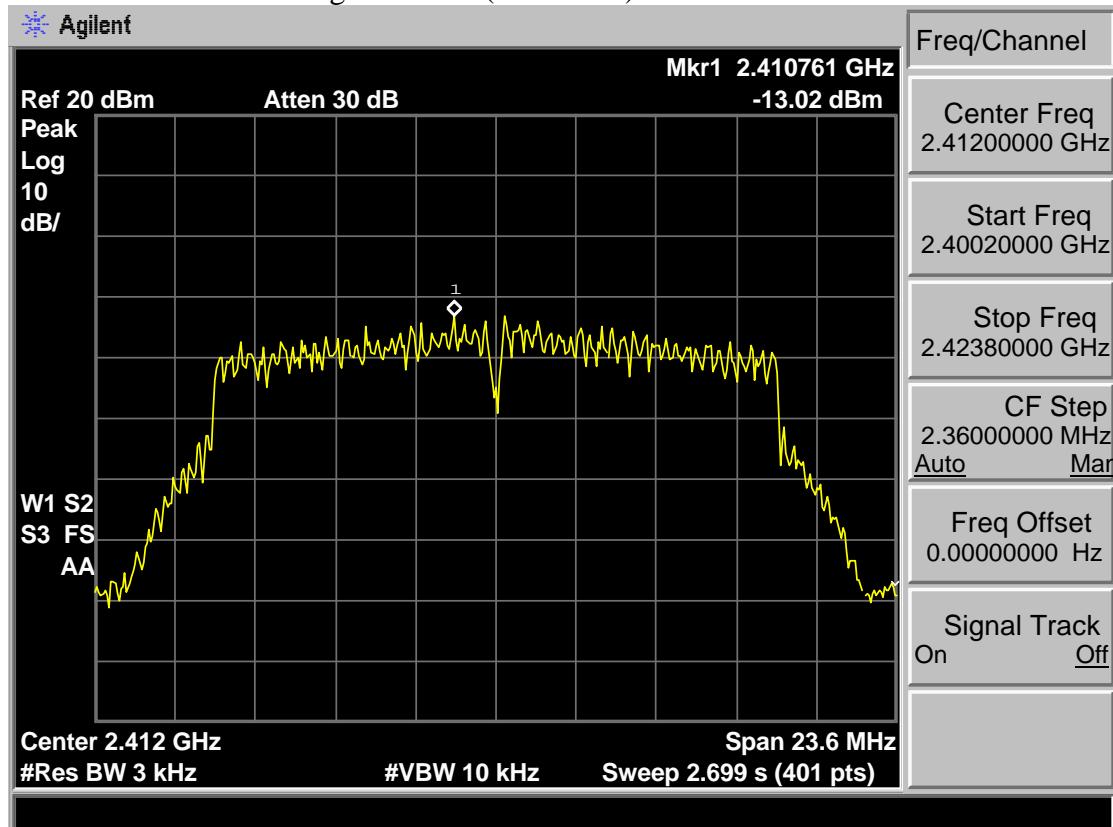
## Test Mode: IEEE 802.11b 2462MHz(Antenna a)



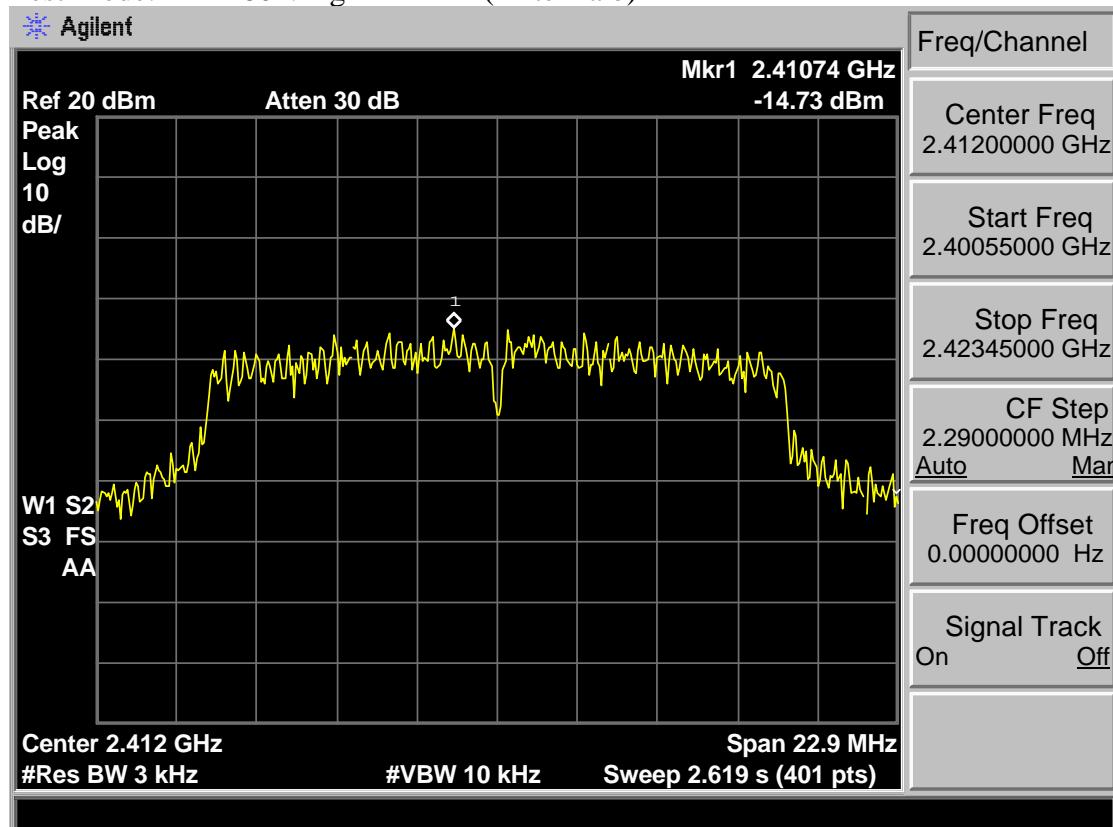
## Test Mode: IEEE 802.11b 2462MHz(Antenna b)



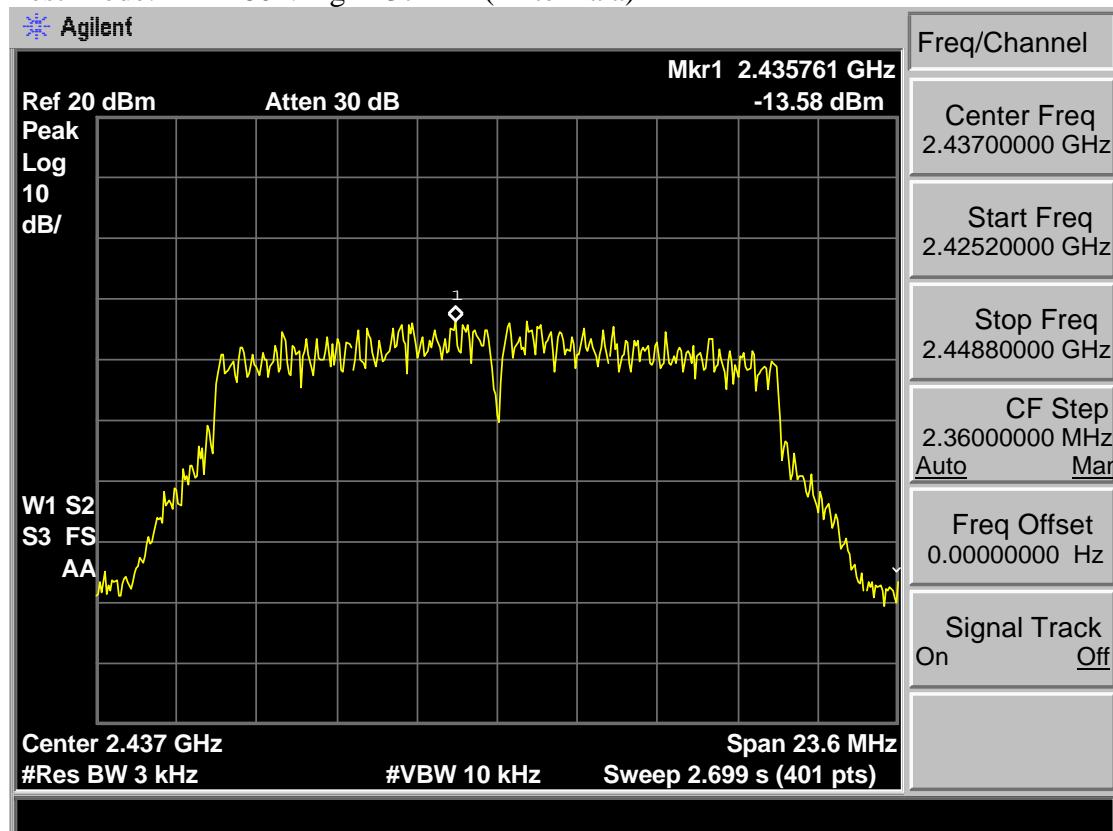
## Test Mode: IEEE 802.11g 2412MHz(Antenna a)



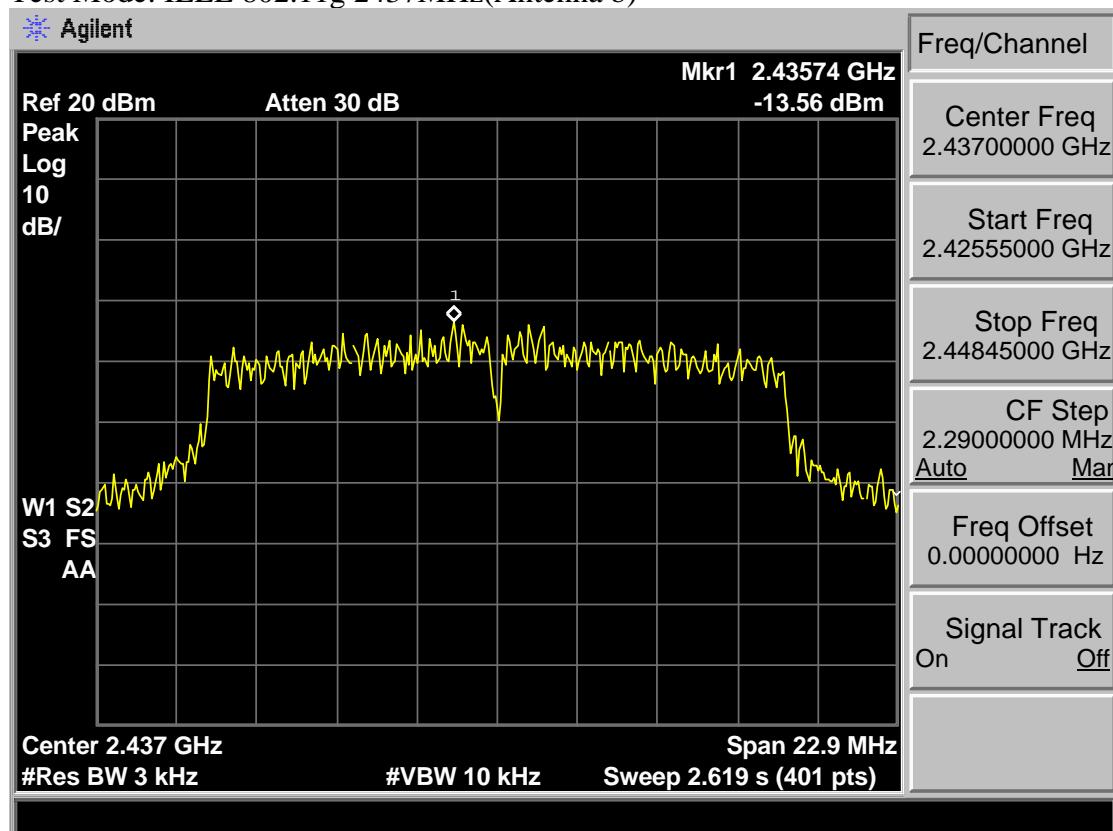
## Test Mode: IEEE 802.11g 2412MHz(Antenna b)



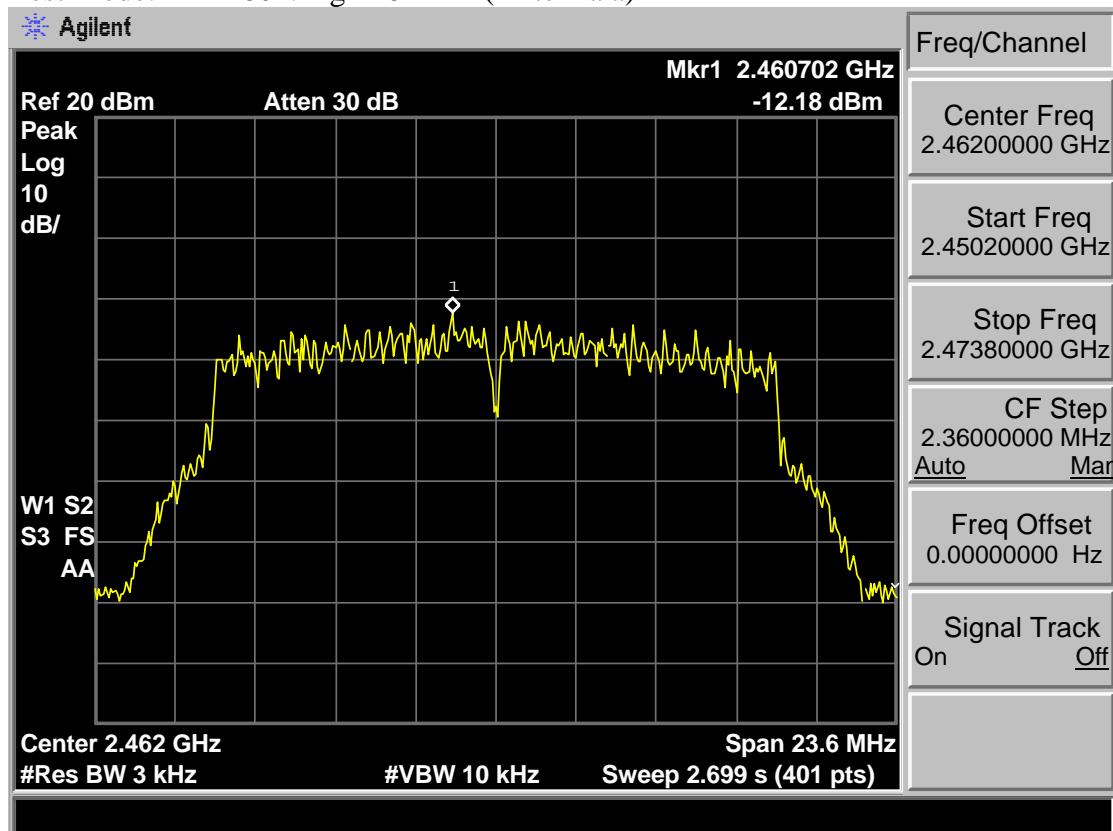
## Test Mode: IEEE 802.11g 2437MHz(Antenna a)



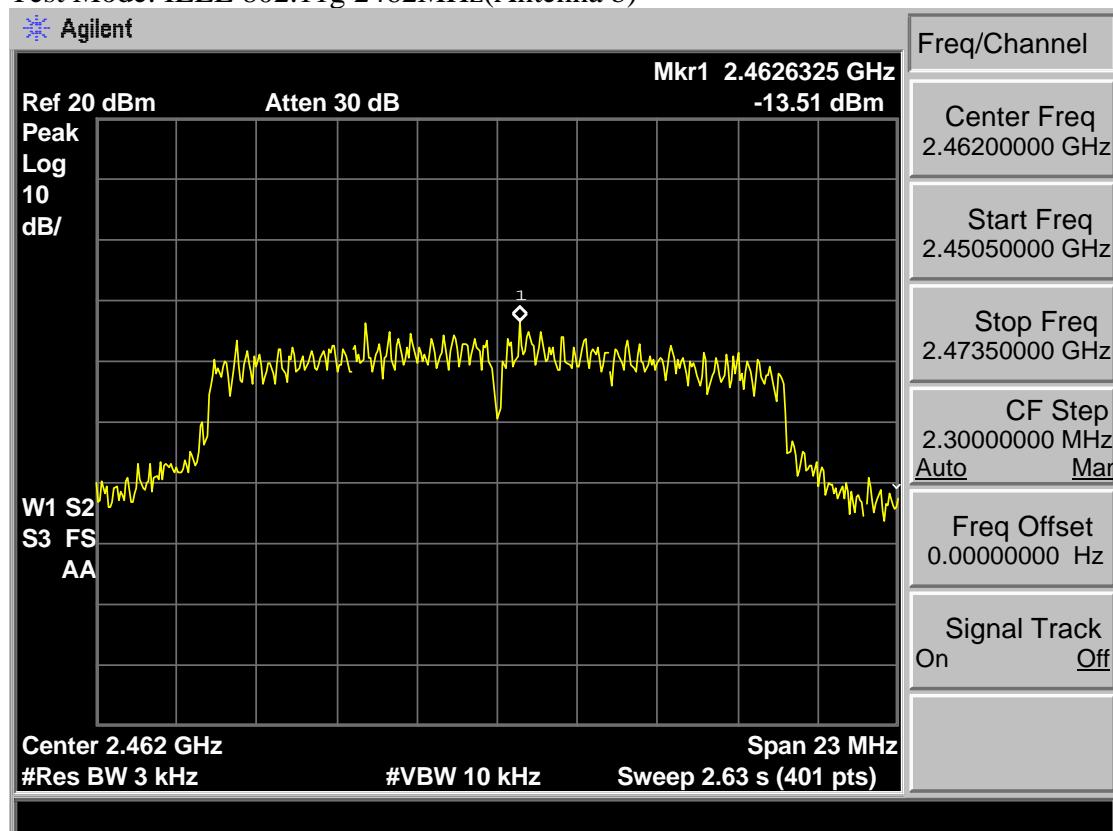
## Test Mode: IEEE 802.11g 2437MHz(Antenna b)



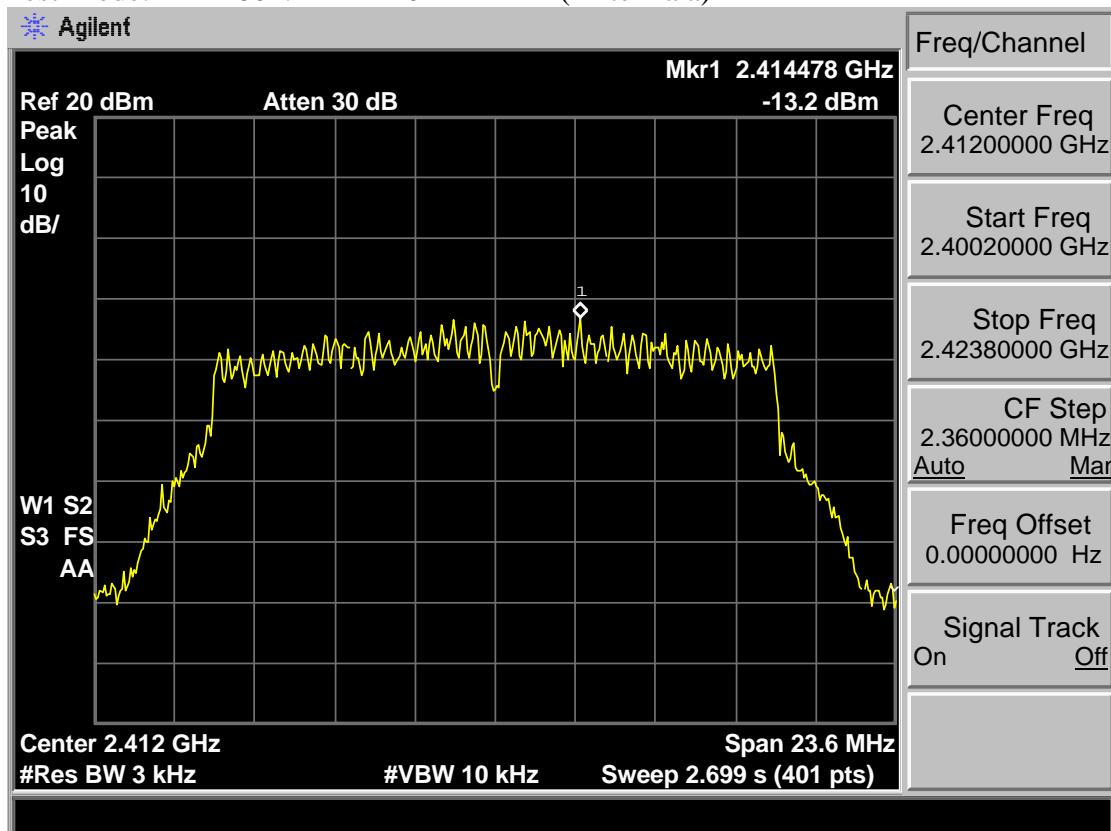
## Test Mode: IEEE 802.11g 2462MHz(Antenna a)



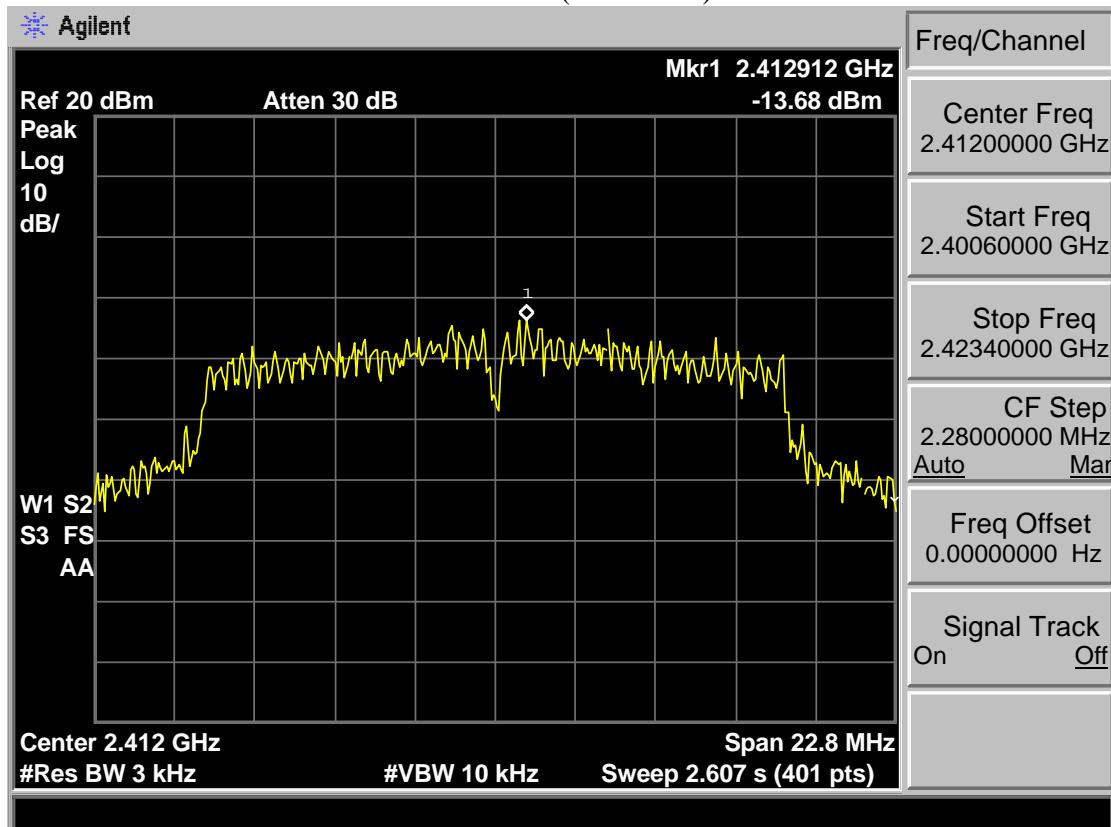
## Test Mode: IEEE 802.11g 2462MHz(Antenna b)



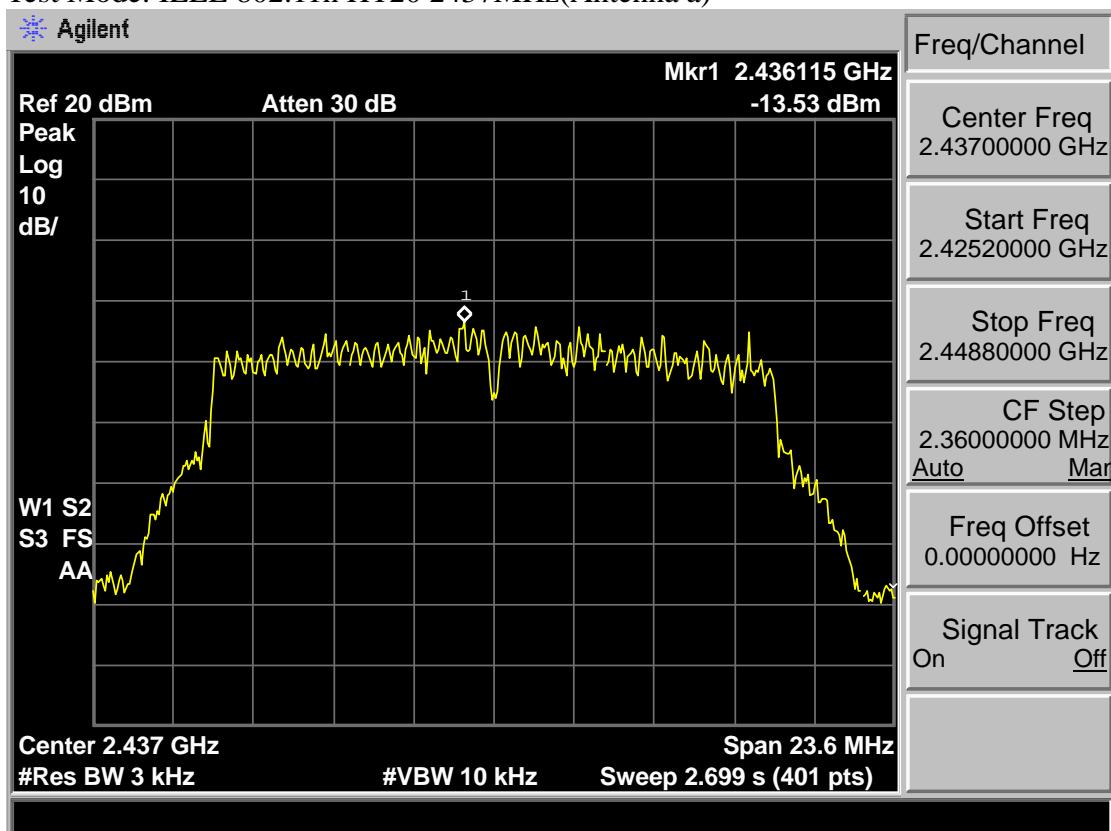
## Test Mode: IEEE 802.11n HT20 2412MHz(Antenna a)



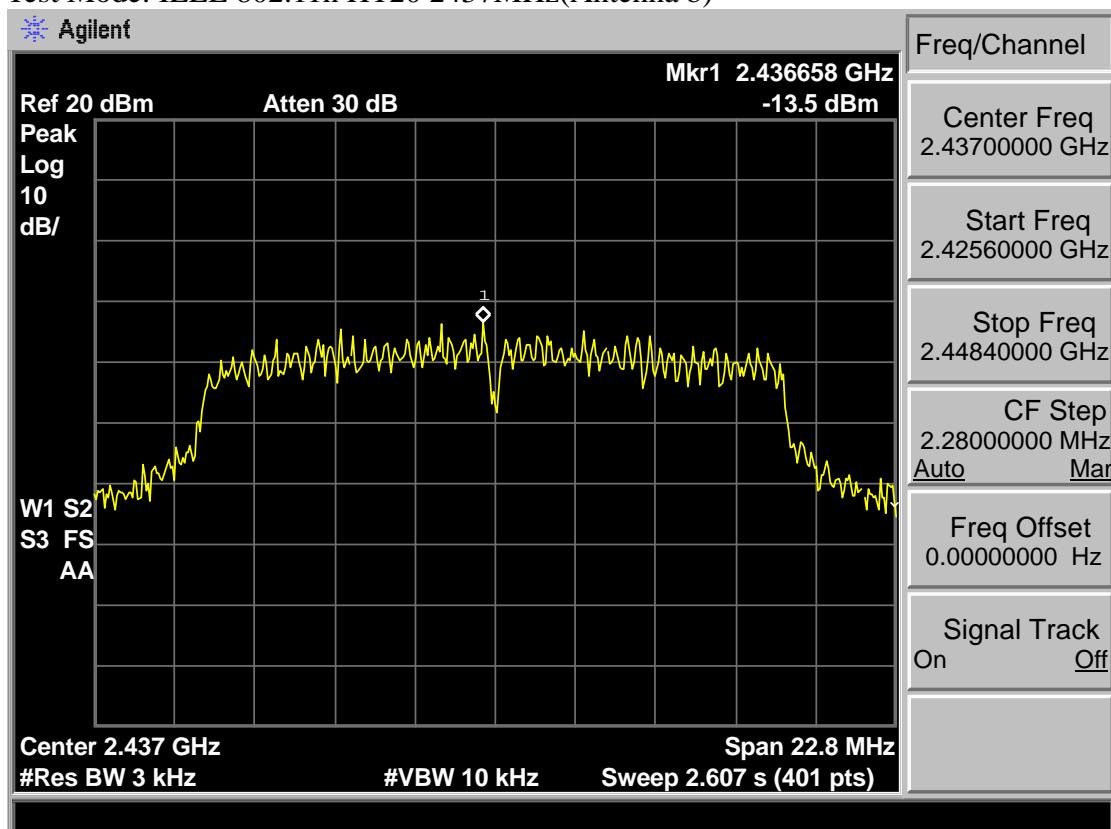
## Test Mode: IEEE 802.11n HT20 2412MHz(Antenna b)



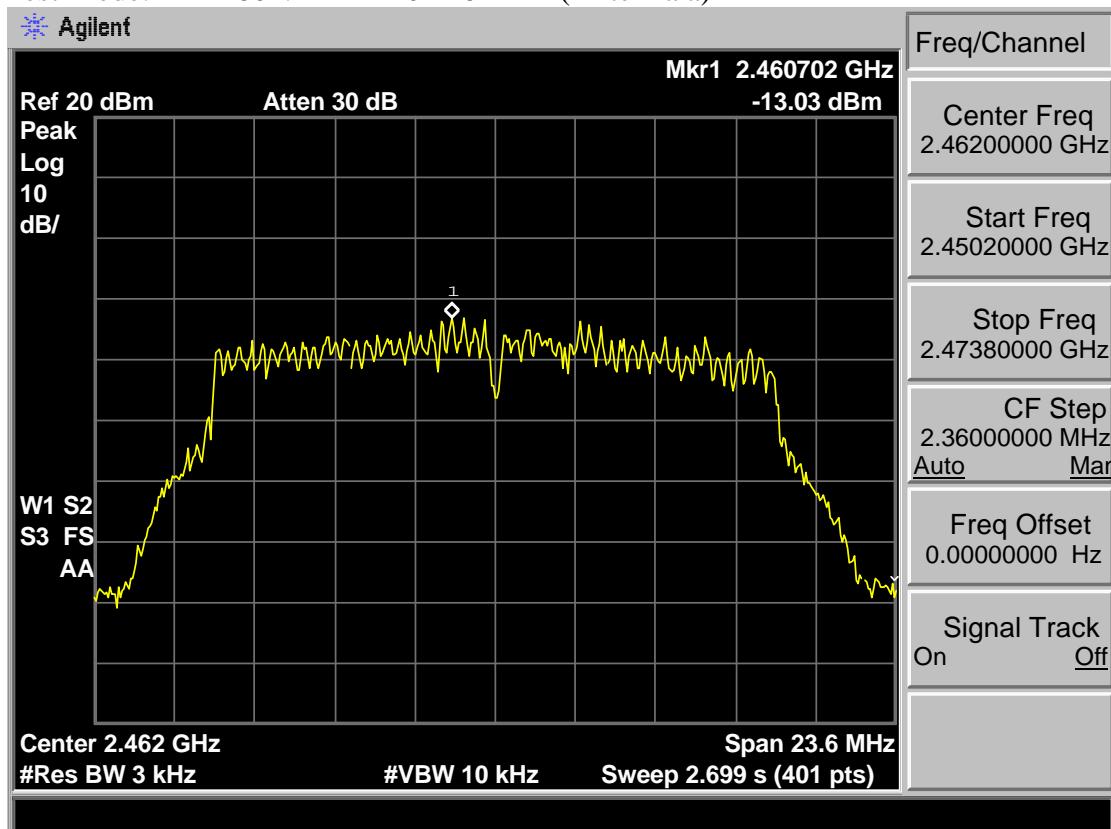
## Test Mode: IEEE 802.11n HT20 2437MHz(Antenna a)



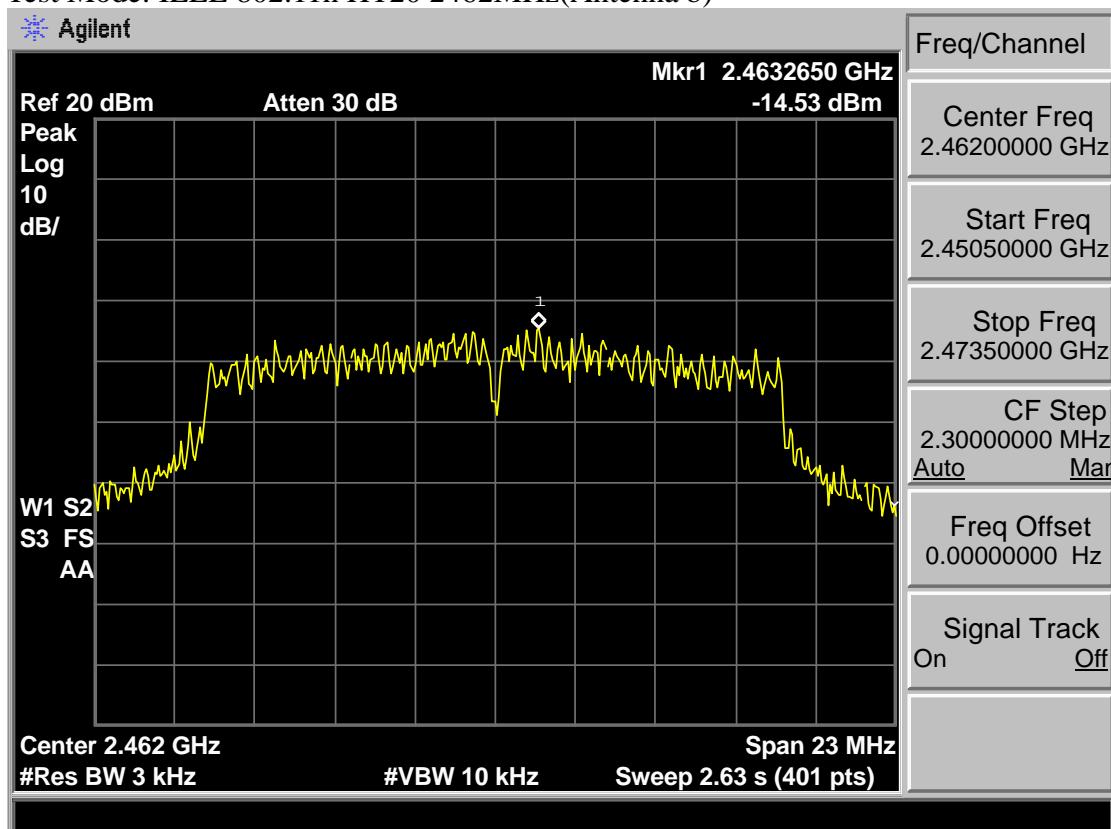
## Test Mode: IEEE 802.11n HT20 2437MHz(Antenna b)



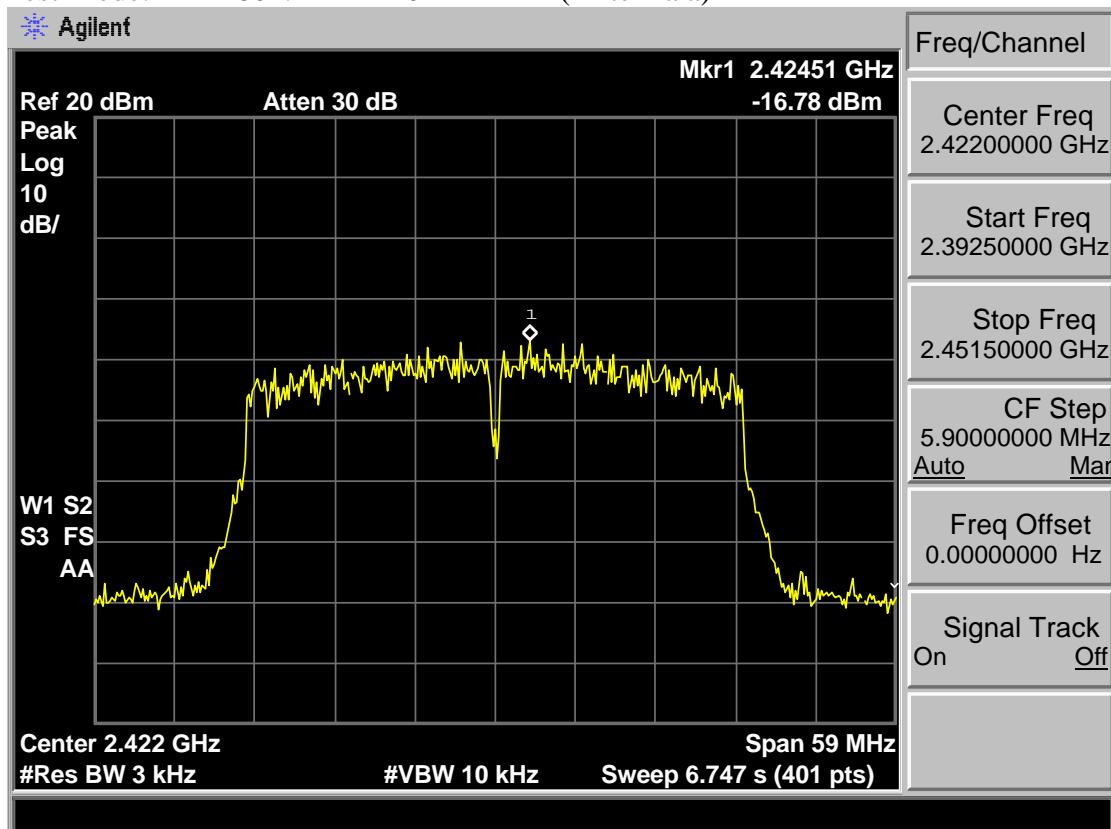
## Test Mode: IEEE 802.11n HT20 2462MHz(Antenna a)



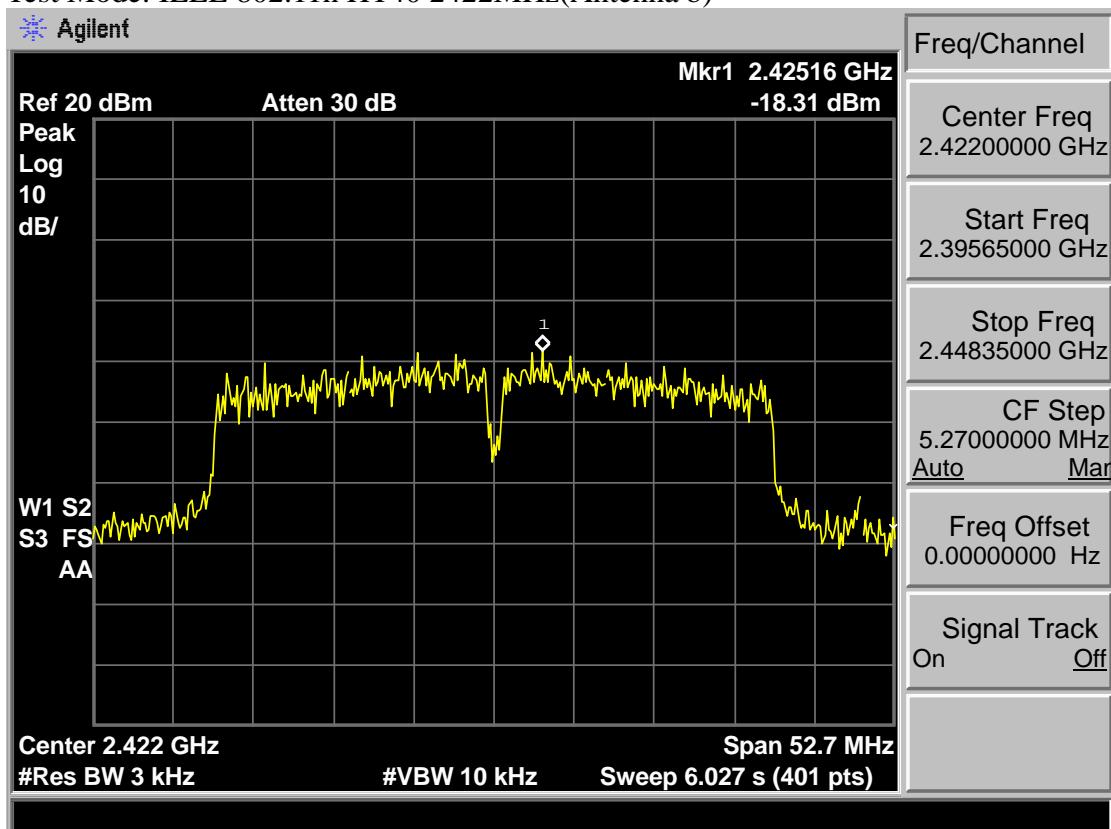
## Test Mode: IEEE 802.11n HT20 2462MHz(Antenna b)



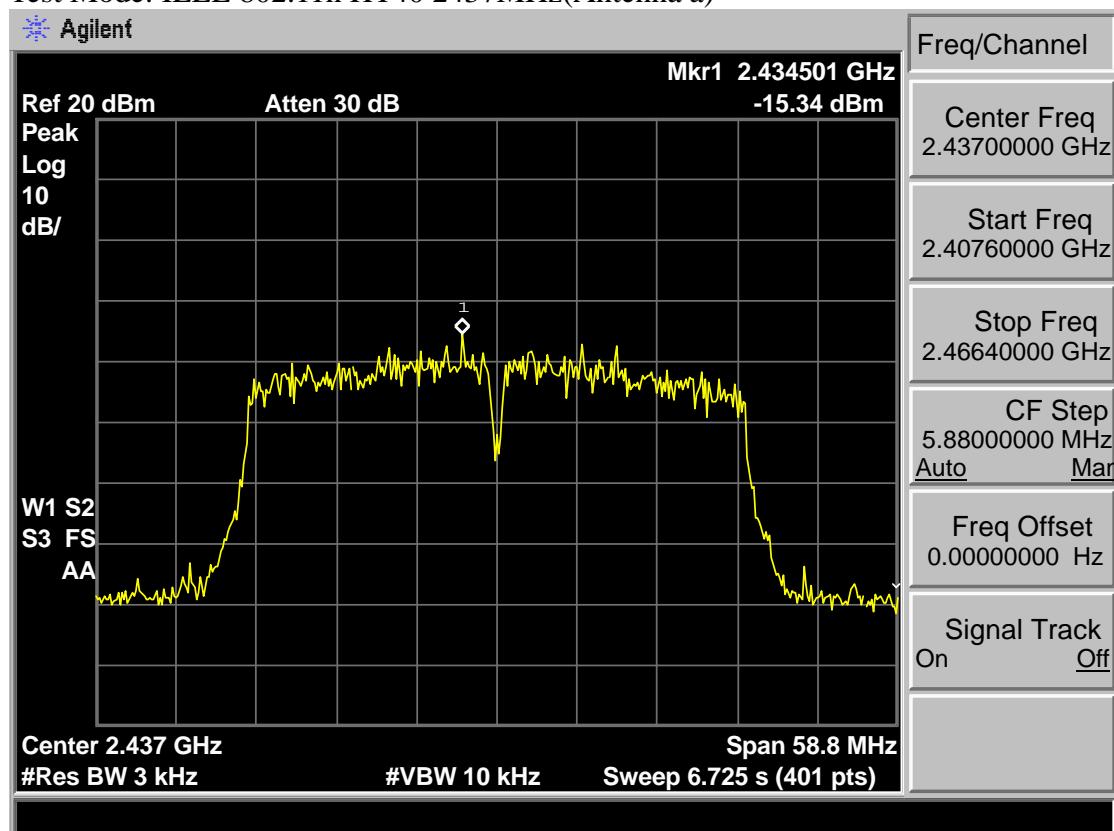
## Test Mode: IEEE 802.11n HT40 2422MHz(Antenna a)



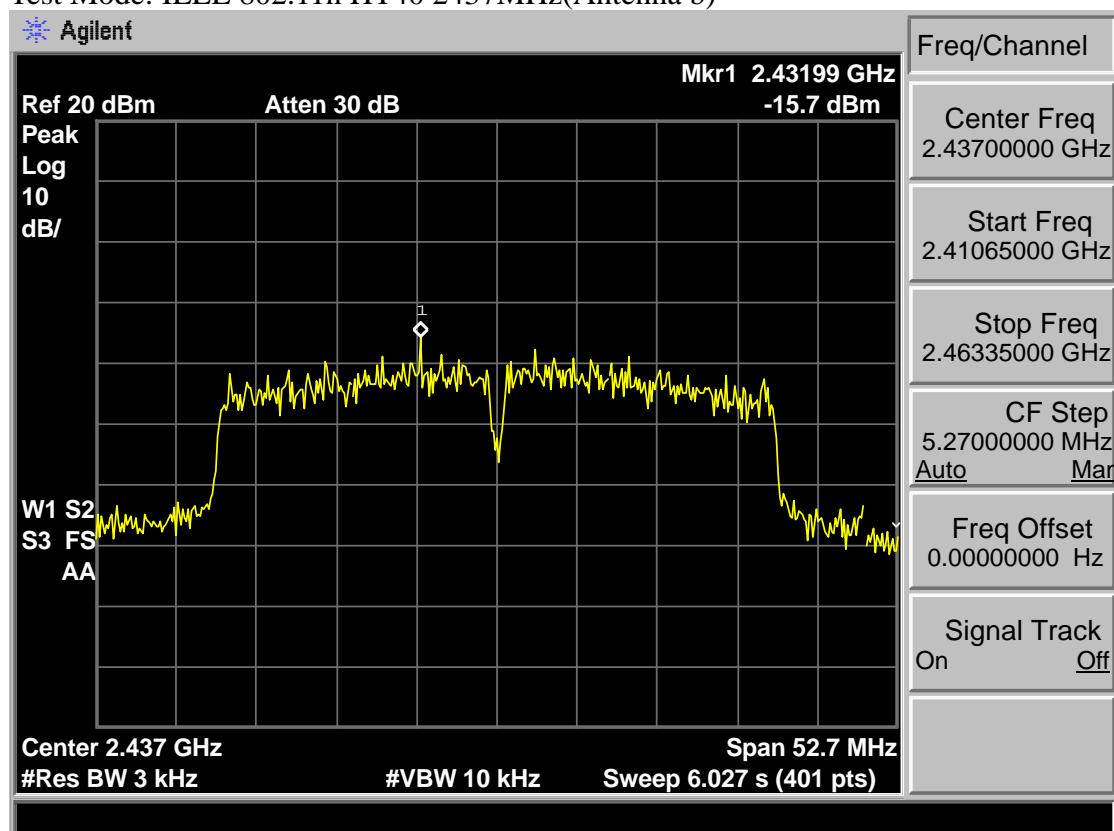
## Test Mode: IEEE 802.11n HT40 2422MHz(Antenna b)



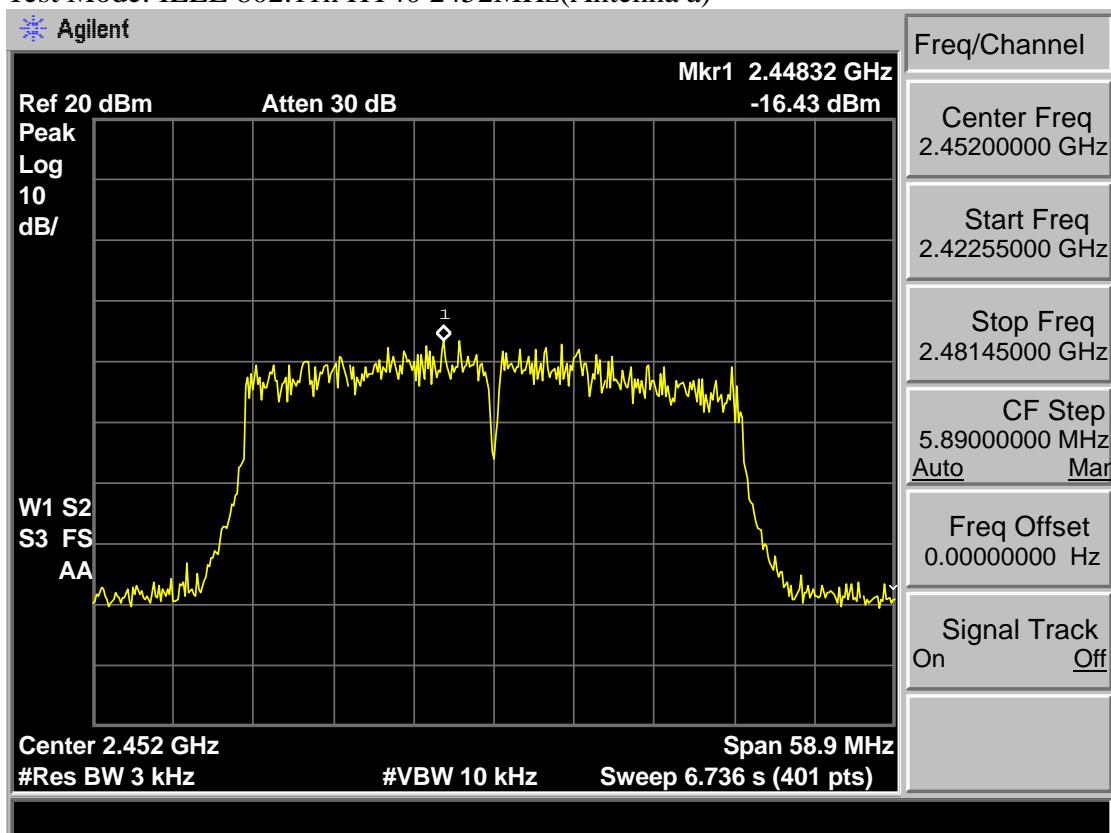
## Test Mode: IEEE 802.11n HT40 2437MHz(Antenna a)



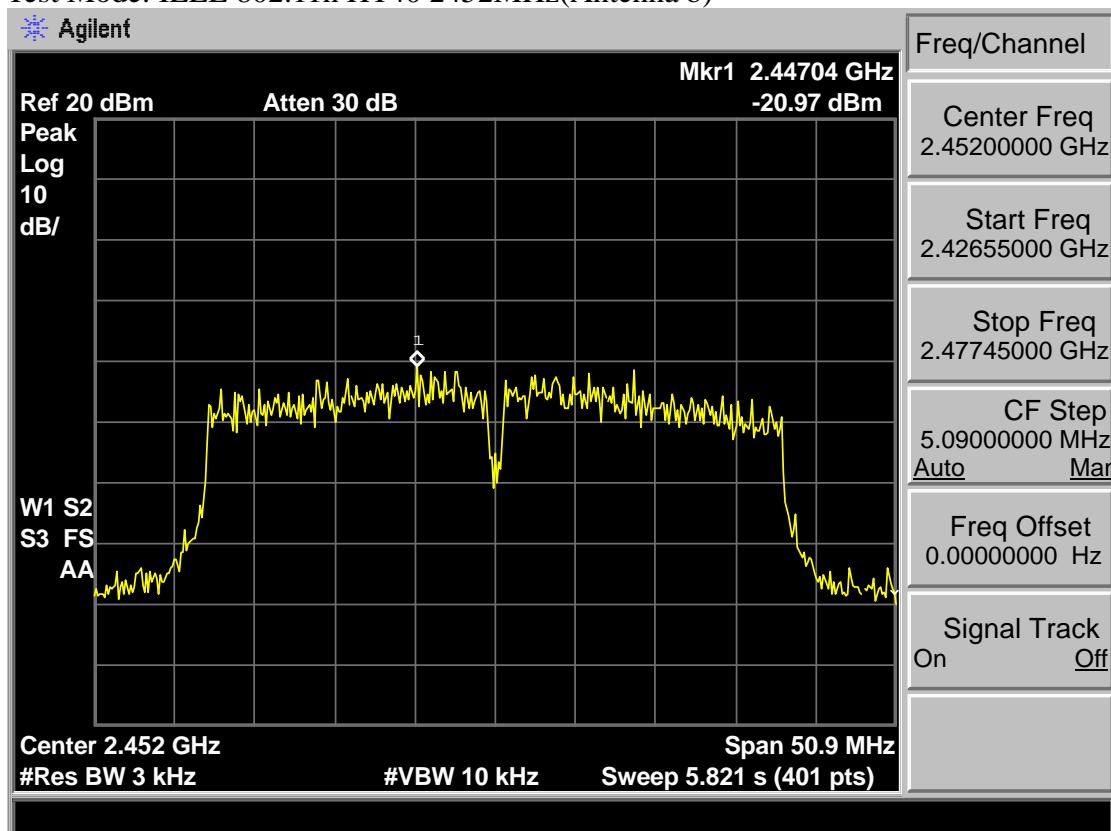
## Test Mode: IEEE 802.11n HT40 2437MHz(Antenna b)



## Test Mode: IEEE 802.11n HT40 2452MHz(Antenna a)



## Test Mode: IEEE 802.11n HT40 2452MHz(Antenna b)



## 9 ANTENNA REQUIREMENTS

### 9.1 Limit

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 9.2 Result

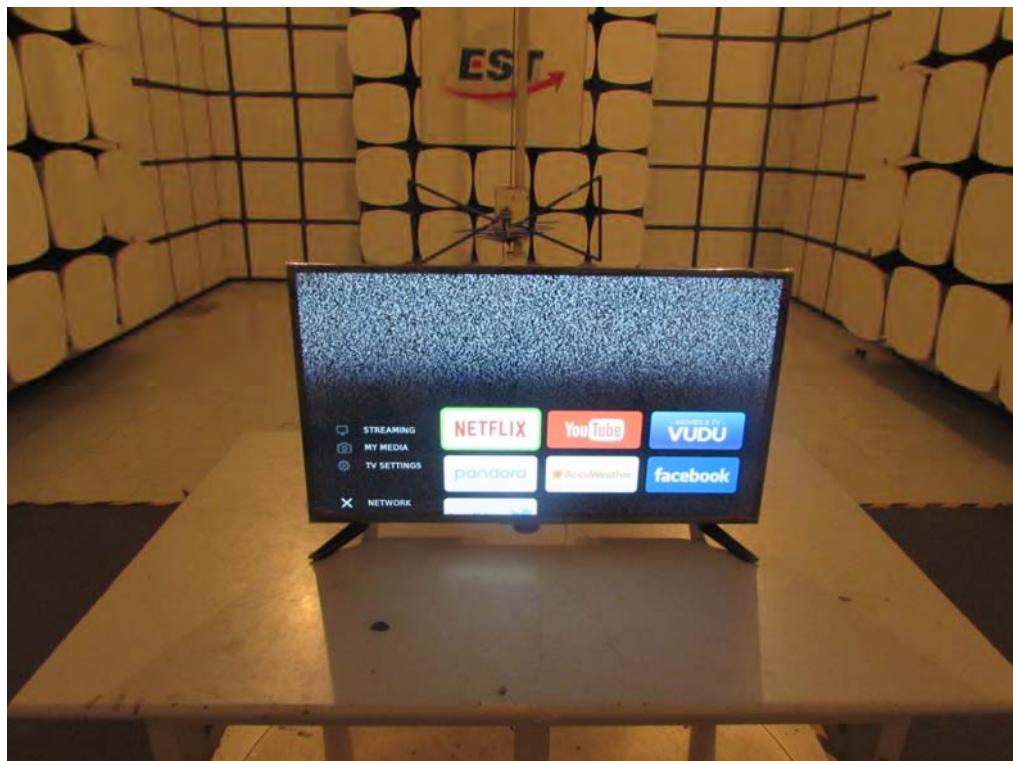
The antennas used for this product are Integral antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1.21 dBi.

## 10 TEST SETUP PHOTO

Conducted Test



Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)



## 11 PHOTOS OF EUT

**External Photos**  
M/N: ELSW3917BF



**External Photos**  
M/N: ELSW3917BF



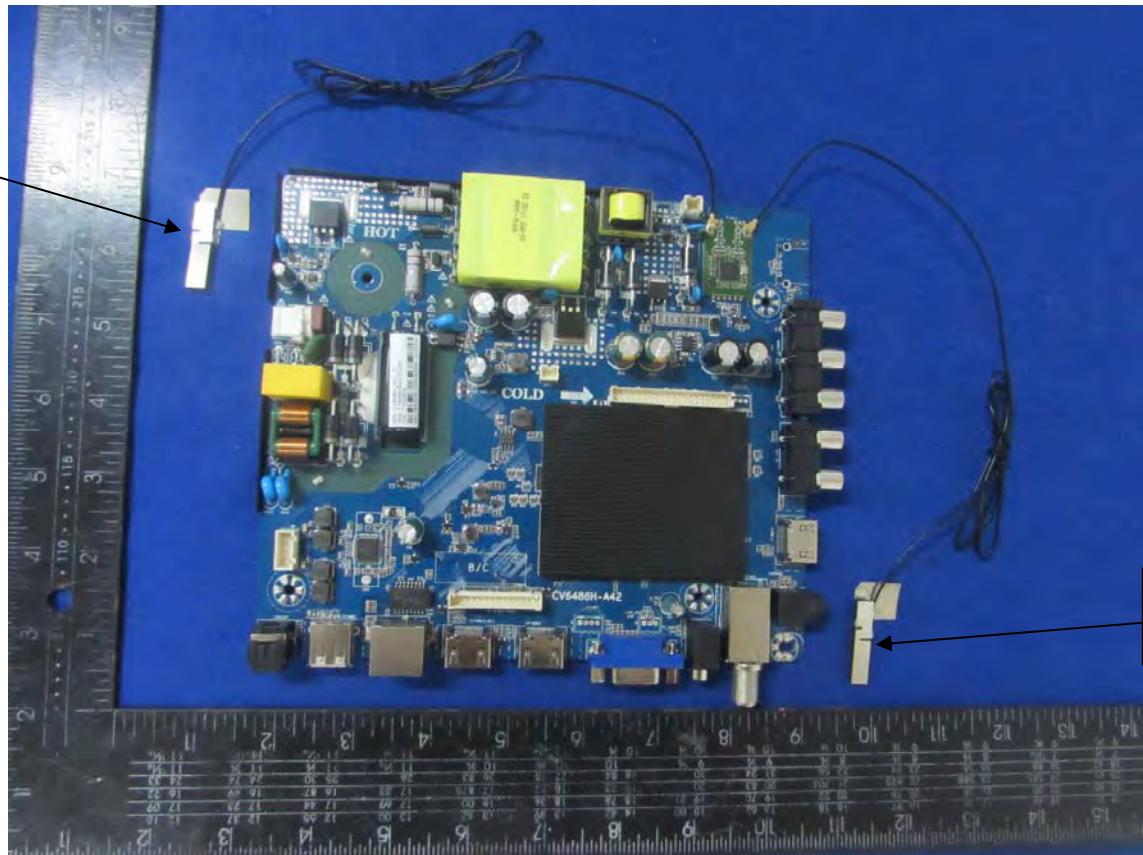
**External Photos**  
M/N: ELSW3917BF



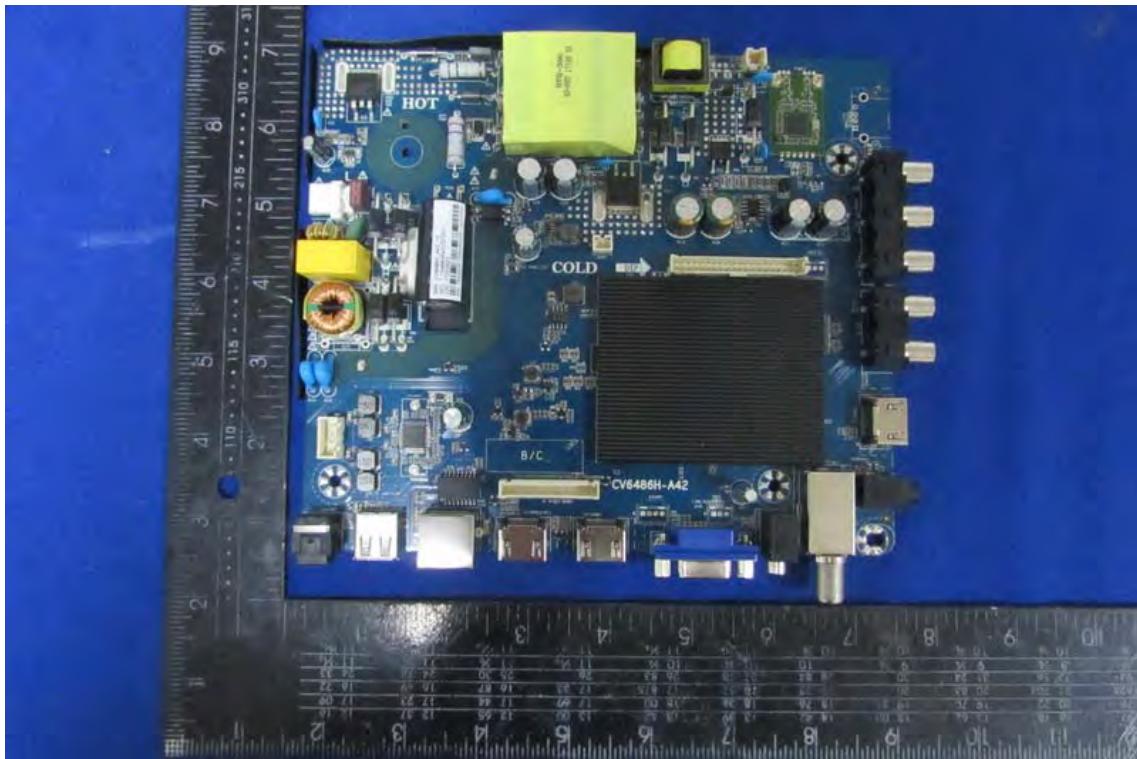
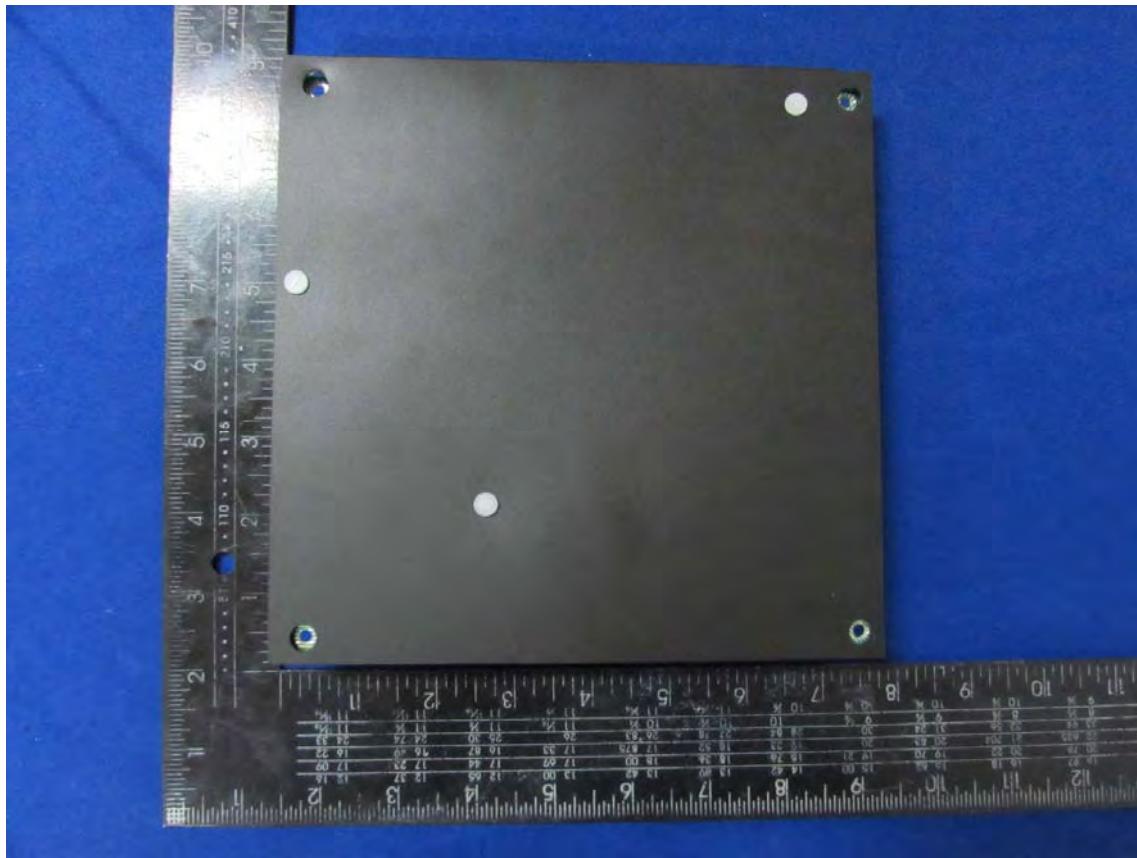
**External Photos**  
M/N: ELSW3917BF



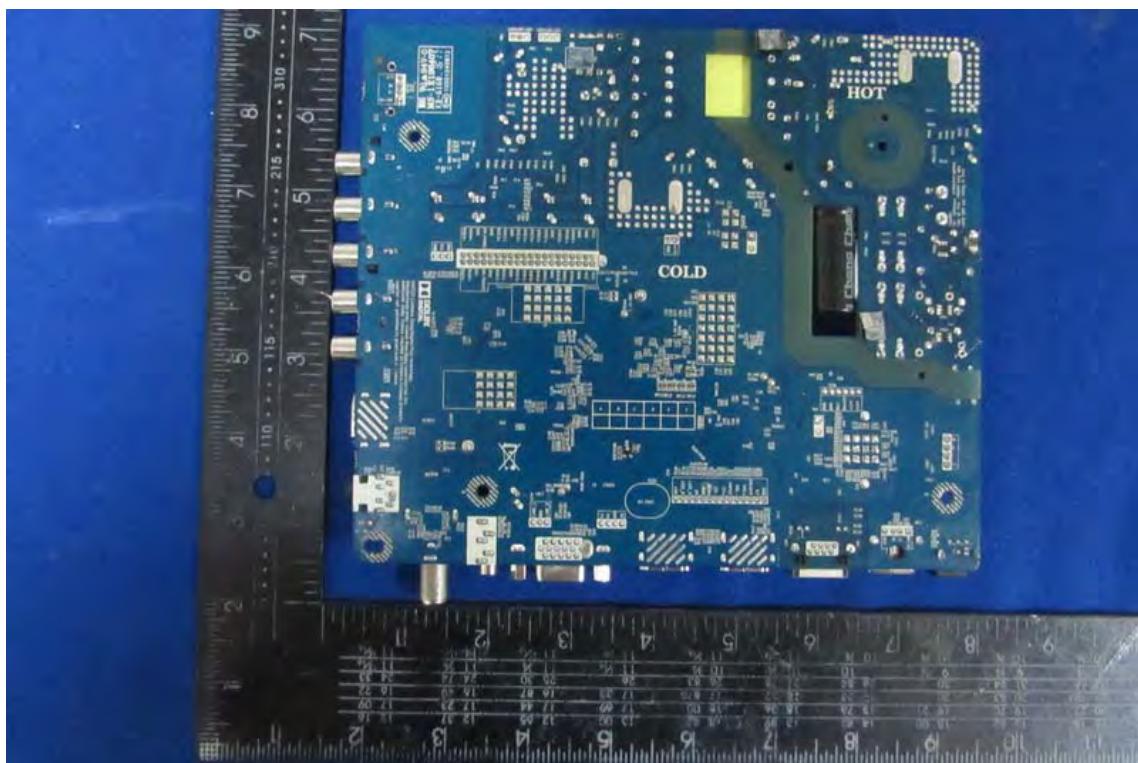
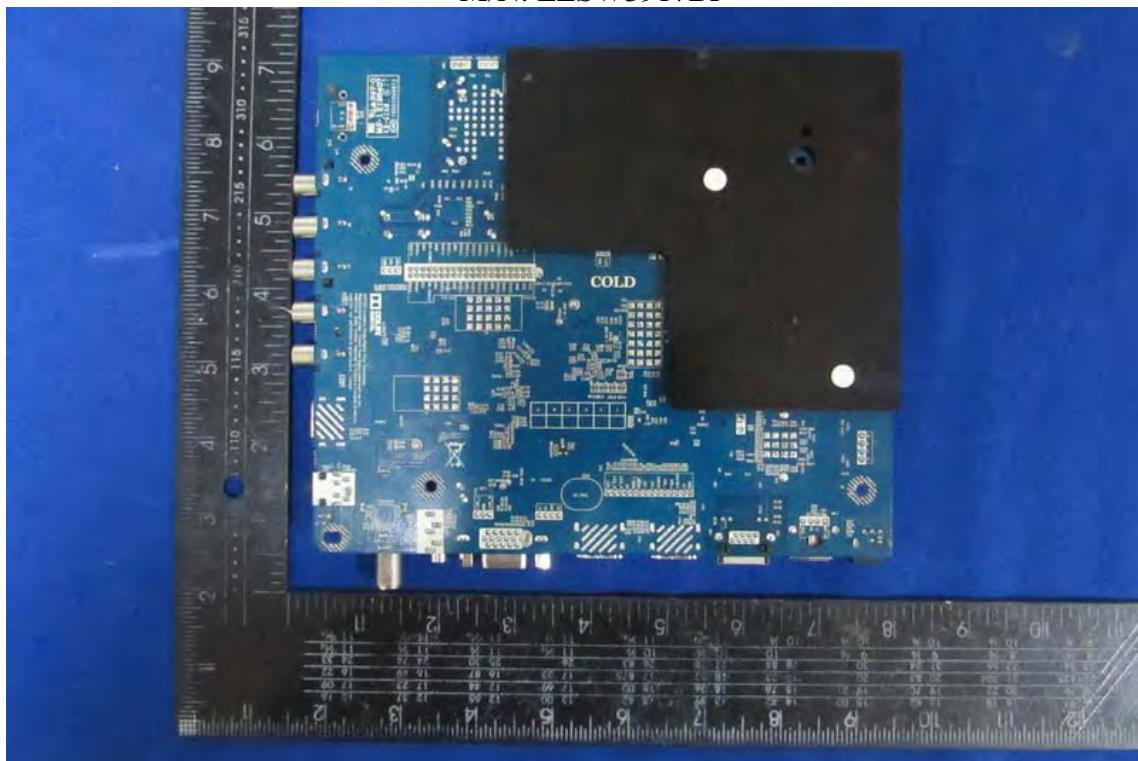
**Internal Photos**  
M/N: ELSW3917BF



**Internal Photos**  
M/N: ELSW3917BF



**Internal Photos**  
M/N: ELSW3917BF



**Internal Photos**  
M/N: ELSW3917BF

Wifi  
Antenna1

Wifi  
Antenna  
2

