FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Shenyang Tongfang Multimedia Technology Co., Limited

LED TV

Model Number: WD55UT4490

FCC ID: 2ACWIWD55UT4490

Prepared for : Shenyang Tongfang Multimedia Technology Co., Limited
No. 10 Nanping East Road HunNan New District Shenyang, LiaoNing Province P.R. China

Prepared By : EST Technology Co., Ltd.
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Report Number: ESTE-R1610035
Date of Test : September 19~ October 20, 2016
Date of Report : October 22, 2016

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Test Report Verification

Applicant: **Address:**	Shenyang Tongfang Multimedia Technology Co., Limited No. 10 Nanping East Road HunNan New District Shenyang,LiaoNing Province P.R. China
Manufacturer **Address:**	Shenyang Tongfang Multimedia Technology Co., Limited No. 10 Nanping East Road HunNan New District Shenyang,LiaoNing Province P.R. China
Factory **Address:**	Shenyang Tongfang Multimedia Technology Co., Limited No. 10 Nanping East Road HunNan New District Shenyang,LiaoNing Province P.R. China
E.U.T:	LED TV
Model Number:	WD55UT4490
Power Supply:	AC 100~240V;50/60Hz
Test Voltage:	AC 120V/60Hz
Trade Name:	WESTINGHOUSE Serial No.: ------
Date of Receipt:	September 19, 2016 Date of Test: September19~ October 20, 2016
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2016 ANSI C63.10:2013
Test Result:	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. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: October 22, 2016

Prepared by:	Tested by:	Approved by:
Ada / Assistant	Tony.Tang/ Engineer	IcemanHu / Manager

Other Aspects:

None.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

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.

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	LED TV
Model Number	:	WD55UT4490
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 1.8dBi gain (Max) Directional gain: 4.8 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 v03r05，KDB 662911 D01		

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.

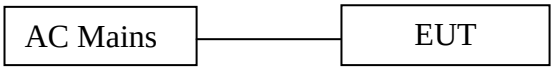
Site Location : San Tun Management Zone, Houjie Town, Dongguan, Guangdong, China

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 be set into Wifi test mode by software before test.



(EUT: LED 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. 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		

2.7. Test Equipment

2.7.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June,28,16	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	June,28,16	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June,28,16	1 Year

2.7.2. For radiated emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June,28,16	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June,28,16	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June,28,16	1 Year
Signal Amplifier	Agilent	310N	187037	June,28,16	1 Year

2.7.3. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120D1002	June,28,16	1 Year
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	June,28,16	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June,28,16	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June,28,16	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.

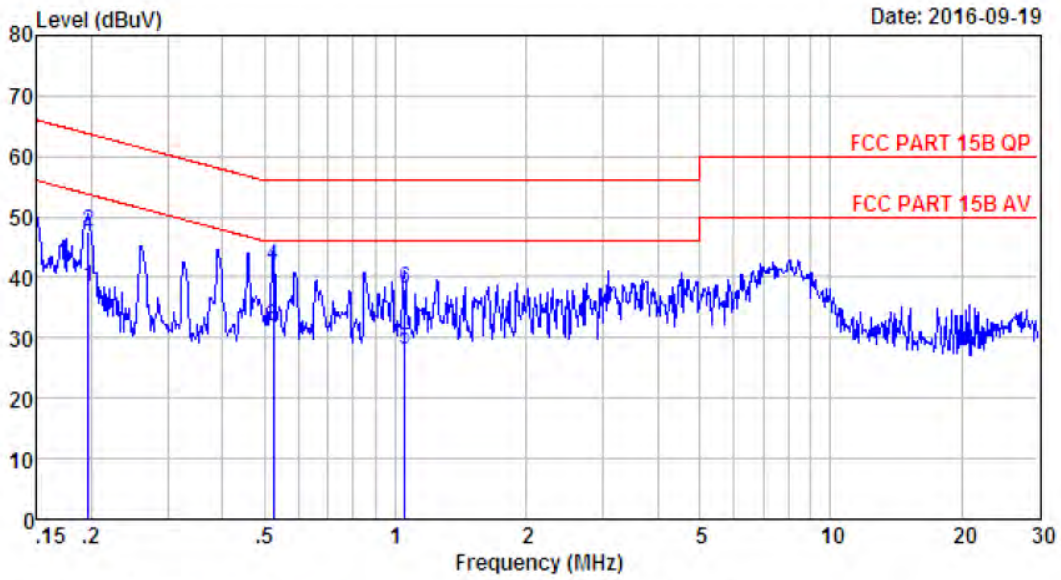
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

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

3.4. Test Result

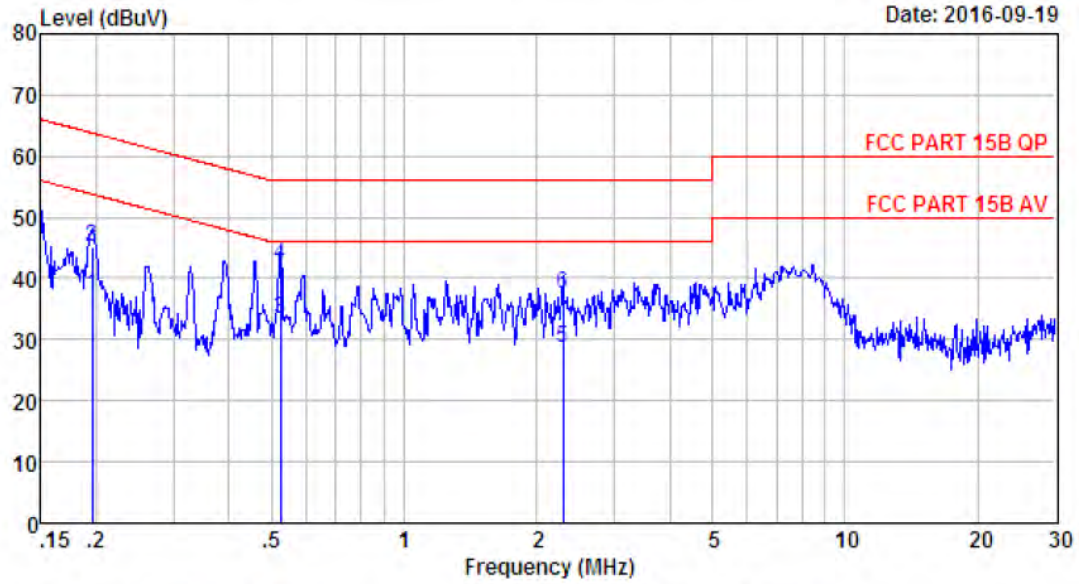
PASS. **(**All emissions not reported below are too low against the prescribed limits.)

3.5. Test data



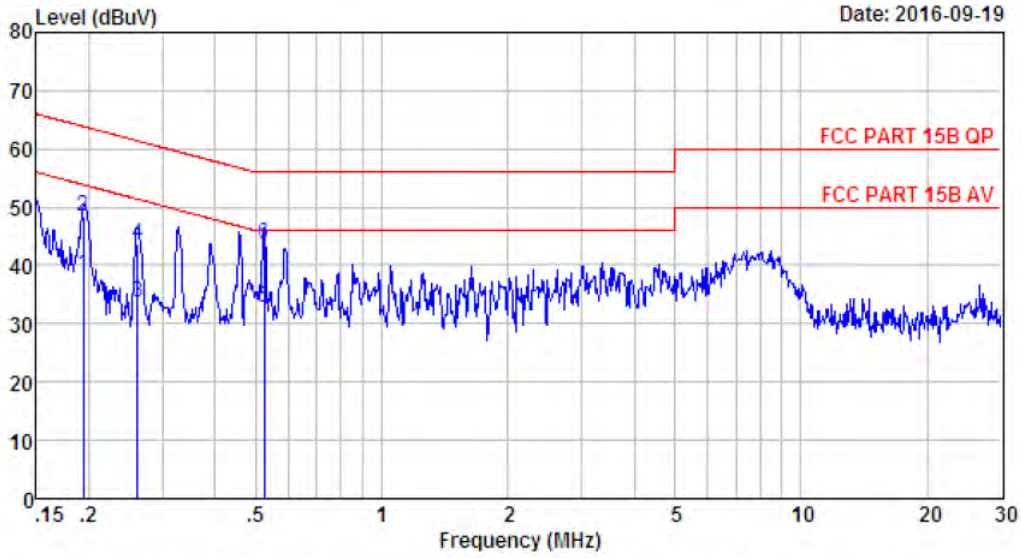
Site no : 844 Shield Room Data no. : 201
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : Bible
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.20	9.61	9.80	19.08	38.49	53.76	15.27	Average
2	0.20	9.61	9.80	28.08	47.49	63.76	16.27	QP
3	0.52	9.61	9.81	12.58	32.00	46.00	14.00	Average
4	0.52	9.61	9.81	22.58	42.00	56.00	14.00	QP
5	1.05	9.64	9.84	8.69	28.17	46.00	17.83	Average
6	1.05	9.64	9.84	18.69	38.17	56.00	17.83	QP



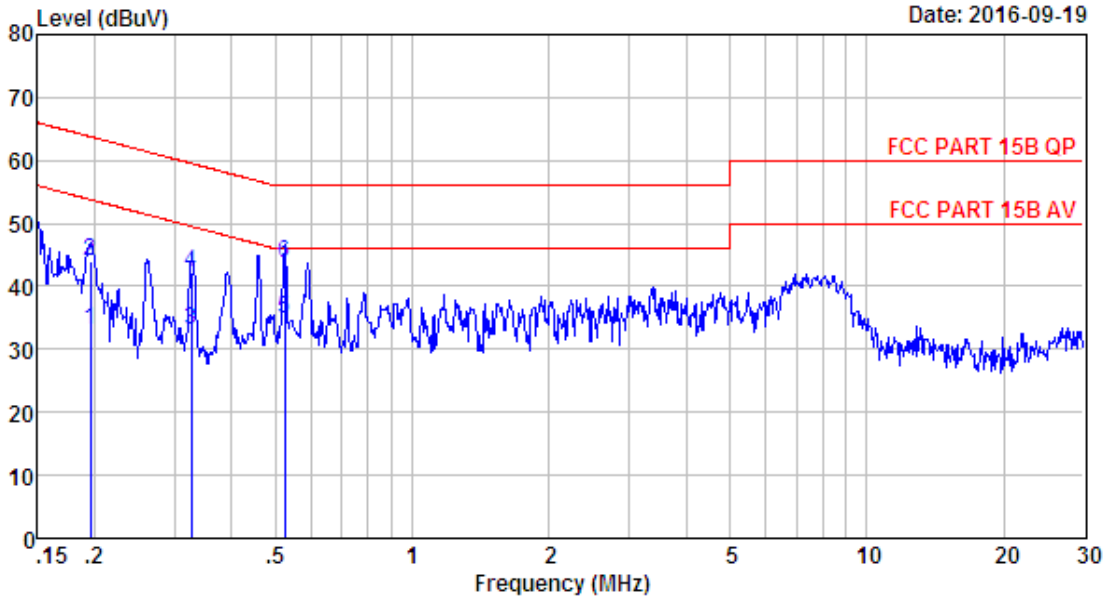
Site no : 844 Shield Room Data no. : 203
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : Bible
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.20	9.59	9.80	17.66	37.05	53.80	16.75	Average
2	0.20	9.59	9.80	25.66	45.05	63.80	18.75	QP
3	0.52	9.60	9.81	13.89	33.30	46.00	12.70	Average
4	0.52	9.60	9.81	22.89	42.30	56.00	13.70	QP
5	2.30	9.62	9.84	9.05	28.51	46.00	17.49	Average
6	2.30	9.62	9.84	18.05	37.51	56.00	18.49	QP



Site no : 844 Shield Room Data no. : 205
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : Bible
EUT : LED TV
Power : AC 240V/50Hz
M/N : WD55UT4490
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.19	9.59	9.80	18.96	38.35	53.84	15.49	Average
2	0.19	9.59	9.80	28.96	48.35	63.84	15.49	QP
3	0.26	9.60	9.82	14.29	33.71	51.38	17.67	Average
4	0.26	9.60	9.82	24.29	43.71	61.38	17.67	QP
5	0.52	9.60	9.81	13.29	32.70	46.00	13.30	Average
6	0.52	9.60	9.81	24.29	43.70	56.00	12.30	QP



Site no : 844 Shield Room Data no. : 207
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : Bible
EUT : LED TV
Power : AC 240V/50Hz
M/N : WD55UT4490
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.20	9.61	9.80	13.52	32.93	53.80	20.87	Average
2	0.20	9.61	9.80	24.52	43.93	63.80	19.87	QP
3	0.33	9.61	9.83	13.65	33.09	49.53	16.44	Average
4	0.33	9.61	9.83	22.65	42.09	59.53	17.44	QP
5	0.52	9.61	9.81	15.32	34.74	46.00	11.26	Average
6	0.52	9.61	9.81	24.32	43.74	56.00	12.26	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 dBμV = 20 log Emission level μV/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.

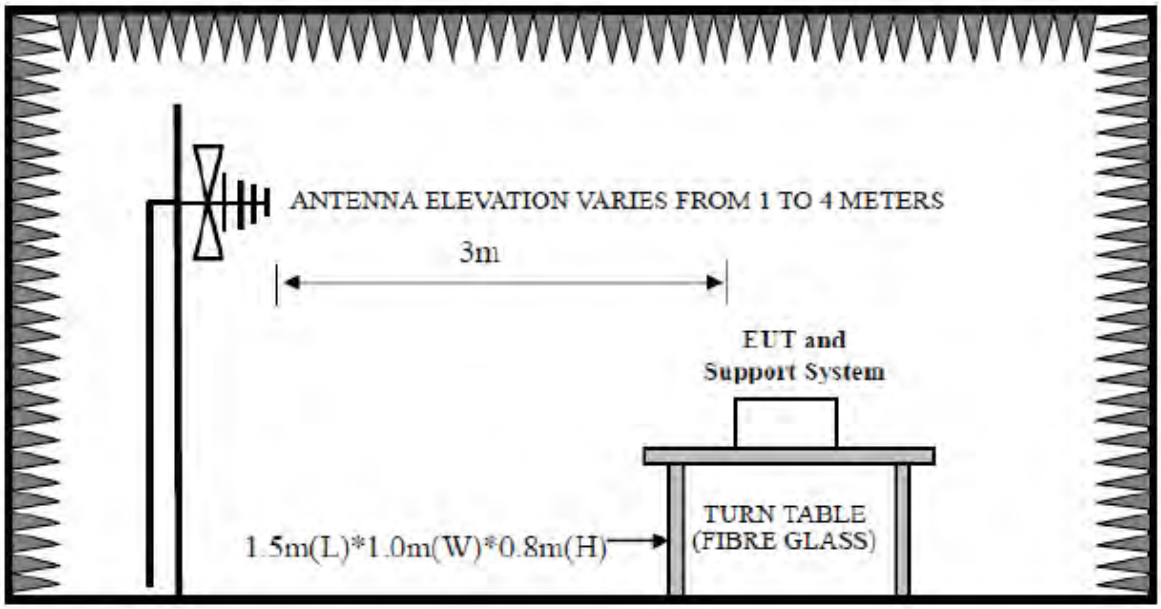
4.1.2 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]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	([2])

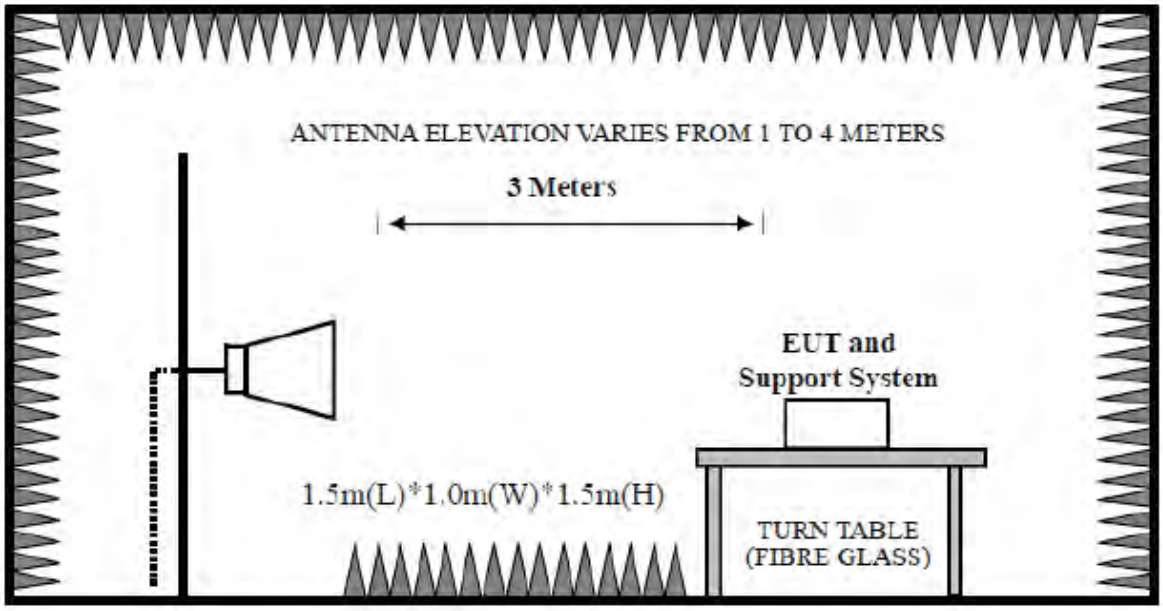
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

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^{th} harmonic (25GHz) are checked.

4.4. Test Result

PASS.

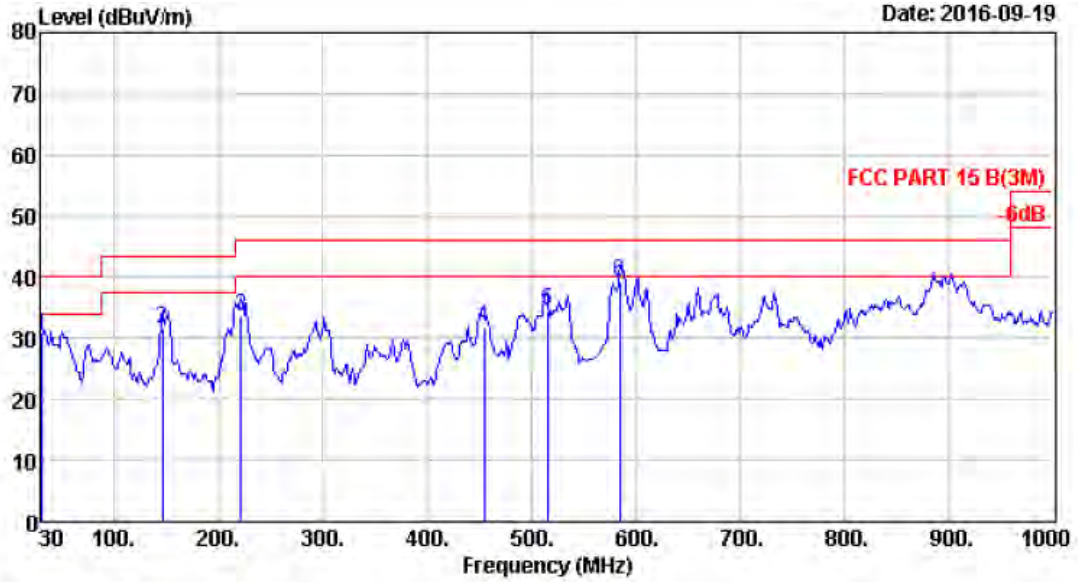
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

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.

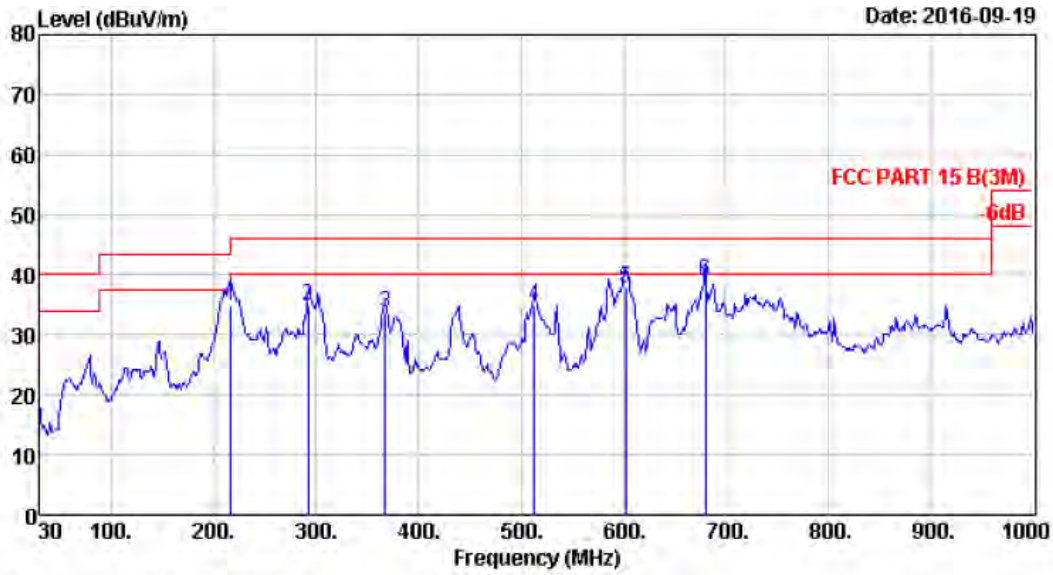
4.5. Test Data

30-1000 MHz



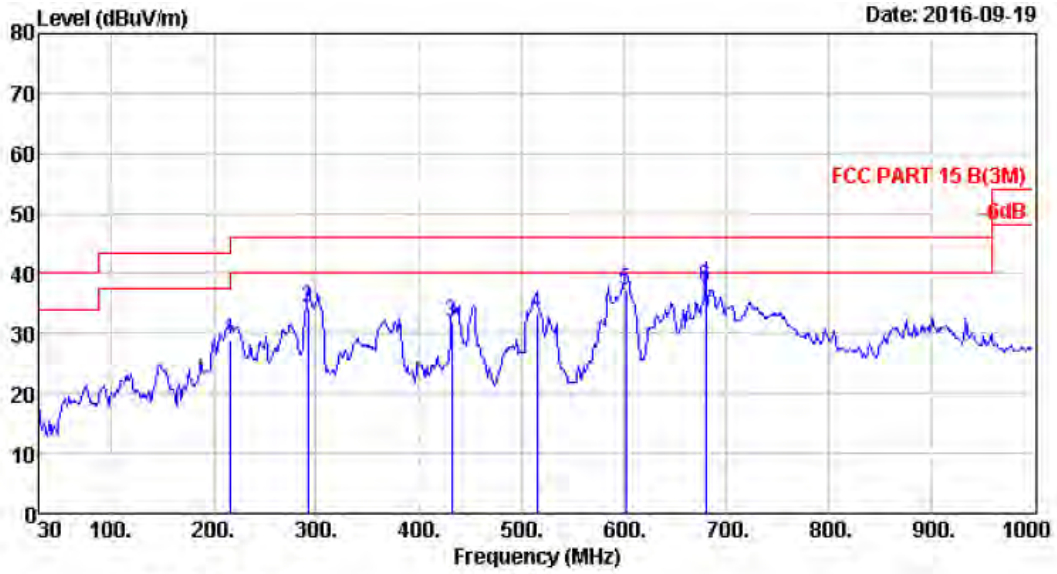
Site no. : 966 1# chamber Data no. : 1
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH1 2412TX
Antenna a

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	11.82	30.98	40.00	9.02	QP
2	146.40	11.15	1.58	18.87	31.60	43.50	11.90	QP
3	222.06	9.31	2.01	22.29	33.61	46.00	12.39	QP
4	454.86	16.65	2.94	12.42	32.01	46.00	13.99	QP
5	515.00	17.95	3.17	13.47	34.59	46.00	11.41	QP
6	584.84	19.47	3.37	16.29	39.13	46.00	6.87	QP



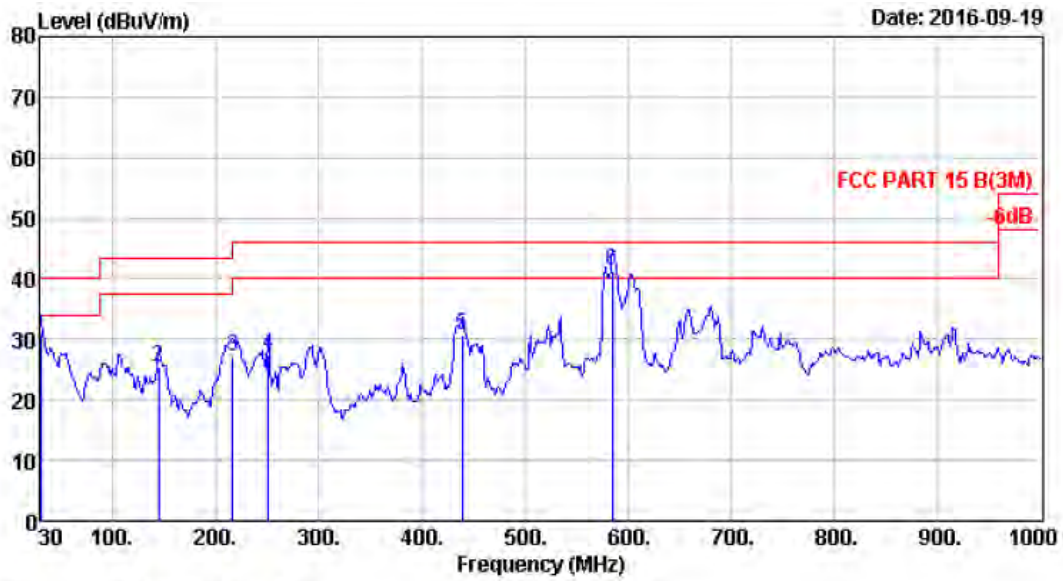
Site no. : 966 1# chamber Data no. : 2
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH1 2412TX
Antenna a

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	216.24	8.80	1.95	55.10	34.85	46.00	11.15	QP
2	291.90	12.83	2.33	50.71	34.72	46.00	11.28	QP
3	367.56	14.76	2.68	47.05	33.61	46.00	12.39	QP
4	513.06	17.95	3.19	44.46	34.82	46.00	11.18	QP
5	602.30	19.66	3.41	46.01	37.89	46.00	8.11	QP
6	679.90	20.29	3.66	45.72	38.91	46.00	7.09	QP



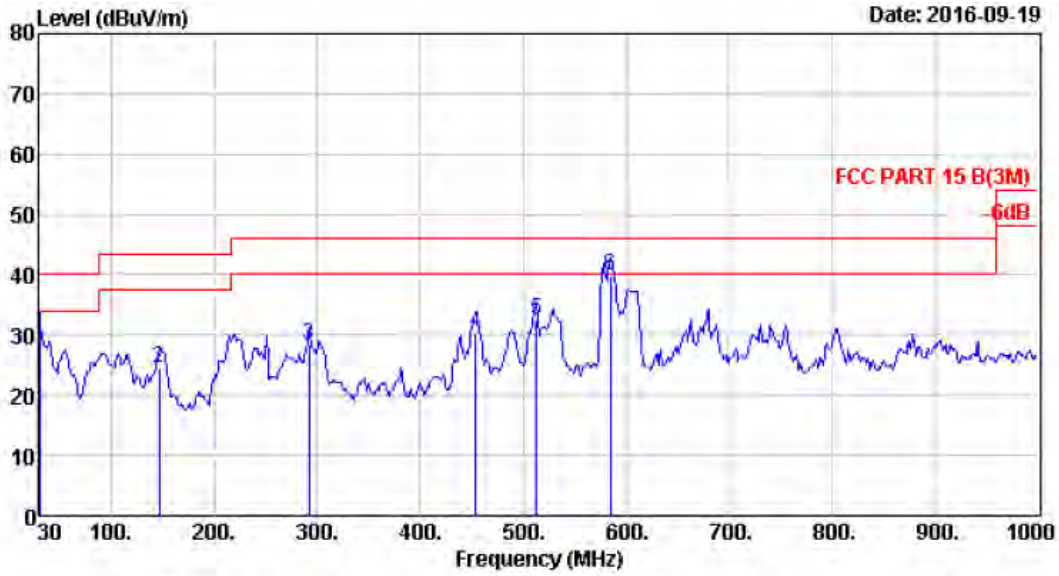
Site no. : 966 1# chamber Data no. : 3
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH6 2437TX
Antenna a

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	216.24	8.80	1.95	18.10	28.85	46.00	17.15	QP
2	291.90	12.83	2.33	19.22	34.38	46.00	11.62	QP
3	432.55	16.11	2.78	12.91	31.80	46.00	14.20	QP
4	515.00	17.95	3.17	12.20	33.32	46.00	12.68	QP
5	602.30	19.66	3.41	14.16	37.23	46.00	8.77	QP
6	679.90	20.29	3.66	13.94	37.89	46.00	8.11	QP



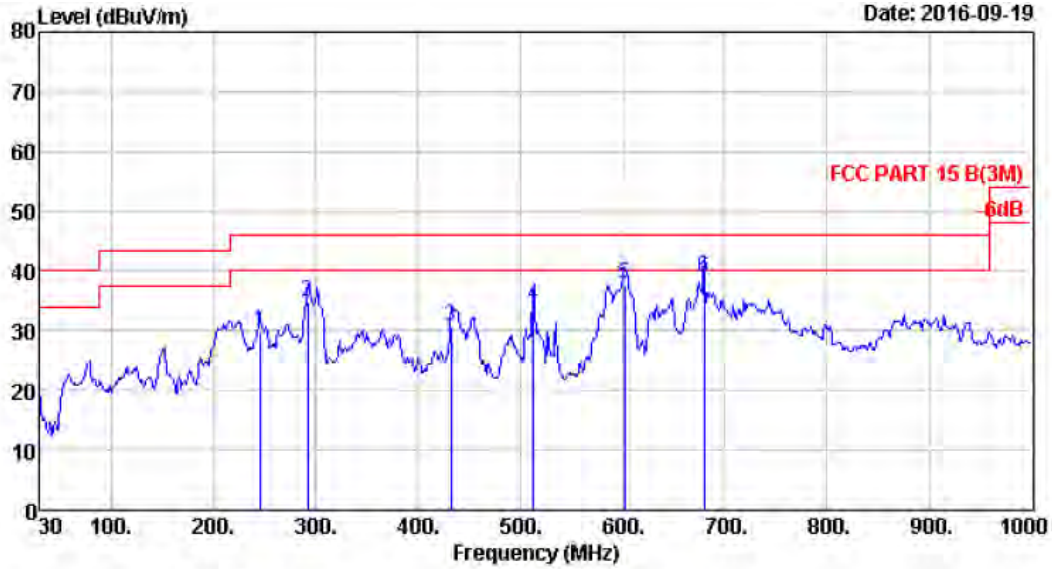
Site no. : 966 1# chamber Data no. : 4
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH6 2437TX
Antenna a

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	11.71	30.87	40.00	9.13	QP
2	144.46	11.26	1.54	12.73	25.53	43.50	17.97	QP
3	216.24	8.80	1.95	16.34	27.09	46.00	18.91	QP
4	251.16	11.94	2.15	13.31	27.40	46.00	18.60	QP
5	439.34	16.23	2.89	11.64	30.76	46.00	15.24	QP
6	584.84	19.47	3.37	18.63	41.47	46.00	4.53	QP



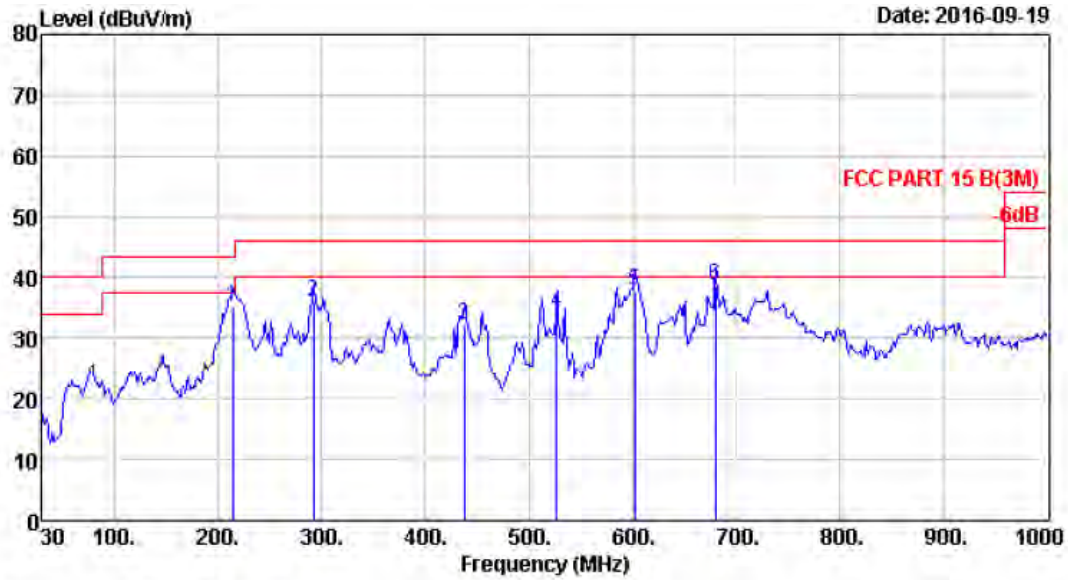
Site no. : 966 1# chamber Data no. : 5
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH11 2462TX
Antenna a

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	11.42	30.58	40.00	9.42	QP
2	146.40	11.15	1.58	11.89	24.62	43.50	18.88	QP
3	291.90	12.83	2.33	13.24	28.40	46.00	17.60	QP
4	453.89	16.62	2.98	10.67	30.27	46.00	15.73	QP
5	513.06	17.95	3.19	11.28	32.42	46.00	13.58	QP
6	584.84	19.47	3.37	16.96	39.80	46.00	6.20	QP



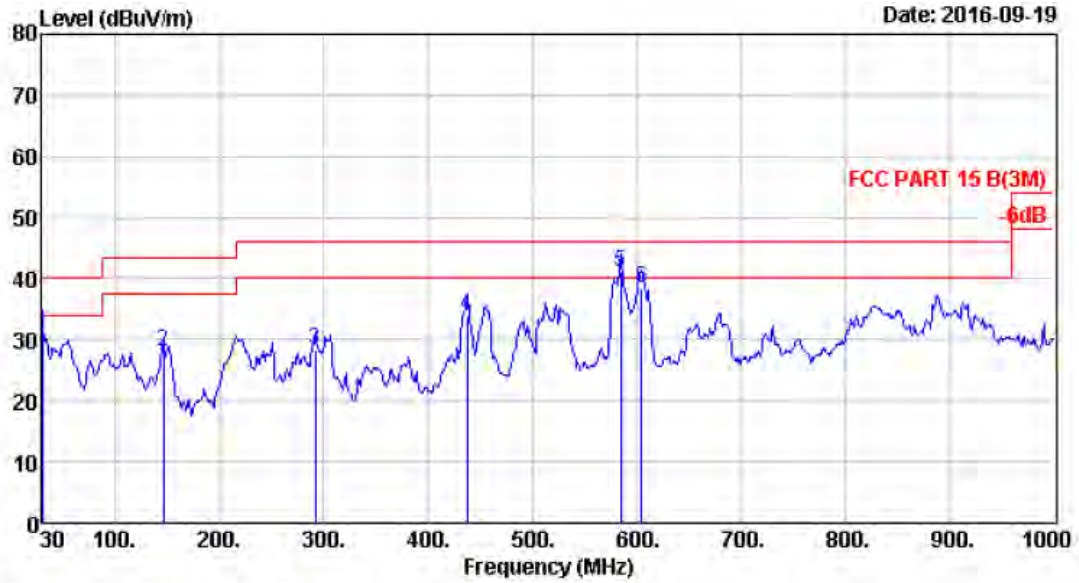
Site no. : 966 1# chamber Data no. : 6
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH11 2462TX
Antenna a

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	245.34	11.06	2.10	16.77	29.93	46.00	16.07	QP
2	291.90	12.83	2.33	19.72	34.88	46.00	11.12	QP
3	432.55	16.11	2.78	11.92	30.81	46.00	15.19	QP
4	513.06	17.95	3.19	13.09	34.23	46.00	11.77	QP
5	602.30	19.66	3.41	14.80	37.87	46.00	8.13	QP
6	679.90	20.29	3.66	15.14	39.09	46.00	6.91	QP



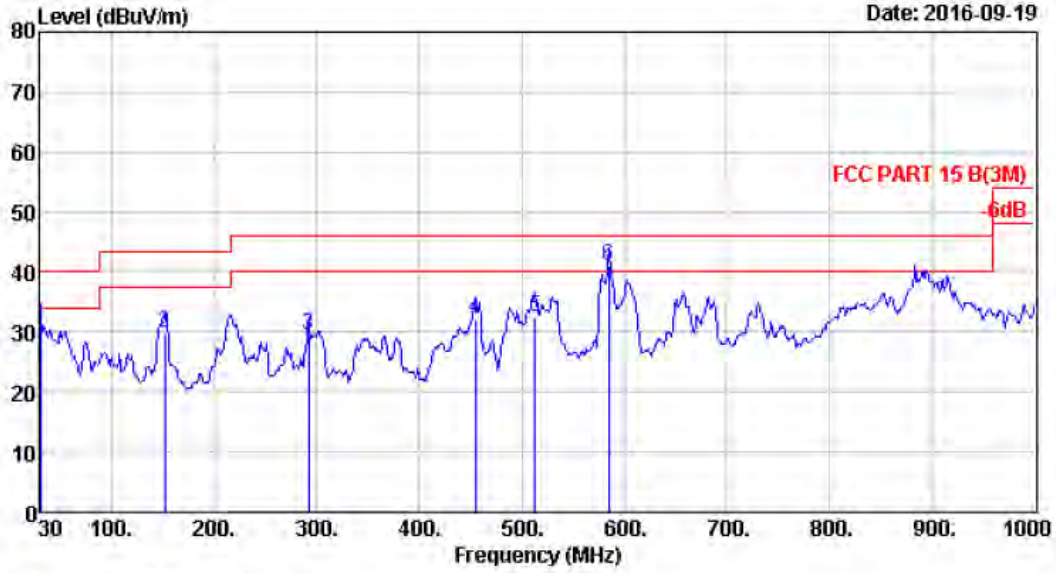
Site no. : 966 1# chamber Data no. : 7
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH1 2412TX
Antenna a

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	214.30	8.65	1.96	24.40	35.01	43.50	8.49	QP
2	291.90	12.83	2.33	20.84	36.00	46.00	10.00	QP
3	437.40	16.20	2.85	13.23	32.28	46.00	13.72	QP
4	526.64	18.15	3.16	12.94	34.25	46.00	11.75	QP
5	602.30	19.66	3.41	14.82	37.89	46.00	8.11	QP
6	679.90	20.29	3.66	14.65	38.60	46.00	7.40	QP



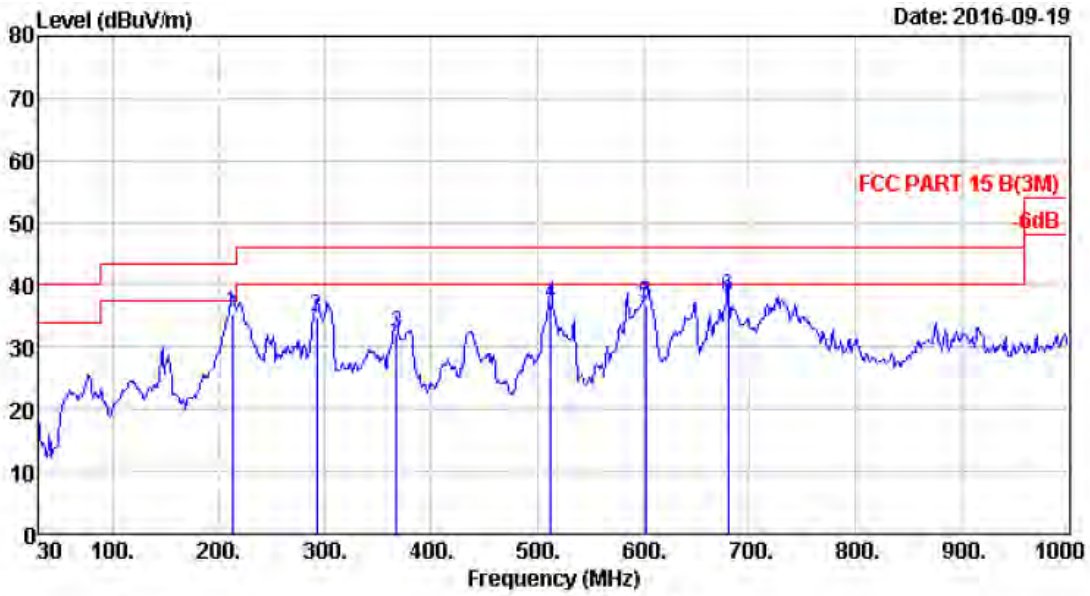
Site no. : 966 1# chamber Data no. : 8
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH1 2412TX
Antenna a

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	12.72	31.88	40.00	8.12	QP
2	146.40	11.15	1.58	15.20	27.93	43.50	15.57	QP
3	291.90	12.83	2.33	13.26	28.42	46.00	17.58	QP
4	437.40	16.20	2.85	14.94	33.99	46.00	12.01	QP
5	584.84	19.47	3.37	18.18	41.02	46.00	4.98	QP
6	604.24	19.71	3.41	15.26	38.38	46.00	7.62	QP



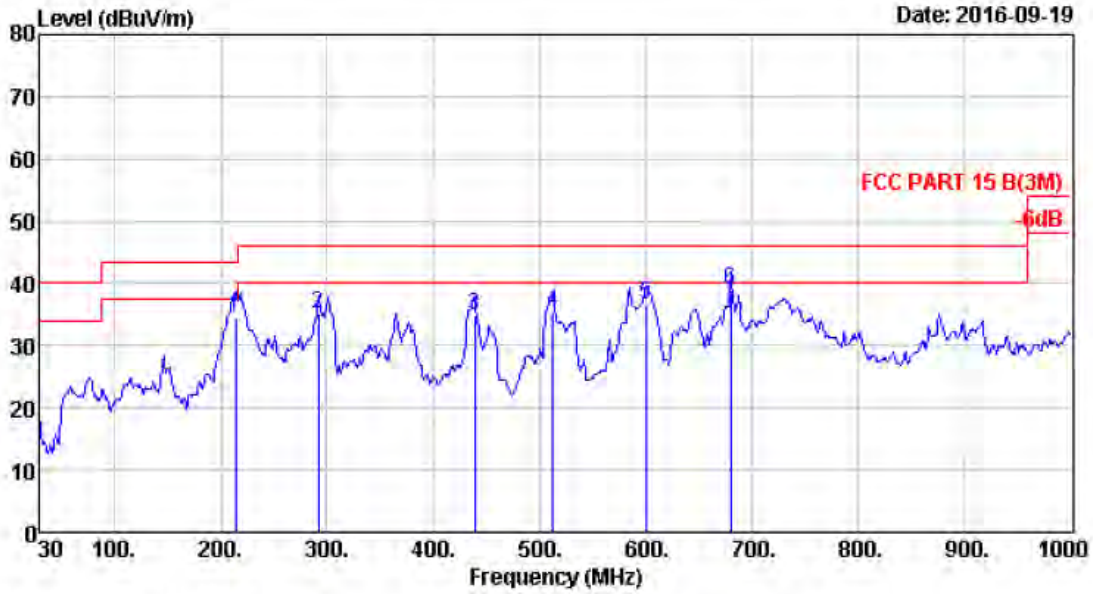
Site no. : 966 1# chamber Data no. : 9
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH6 2437TX
Antenna a

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	12.49	31.65	40.00	8.35	QP
2	151.25	10.82	1.61	17.51	29.94	43.50	13.56	QP
3	291.90	12.83	2.33	14.37	29.53	46.00	16.47	QP
4	454.86	16.65	2.94	12.69	32.28	46.00	13.72	QP
5	513.06	17.95	3.19	11.45	32.59	46.00	13.41	QP
6	584.84	19.47	3.37	18.14	40.98	46.00	5.02	QP



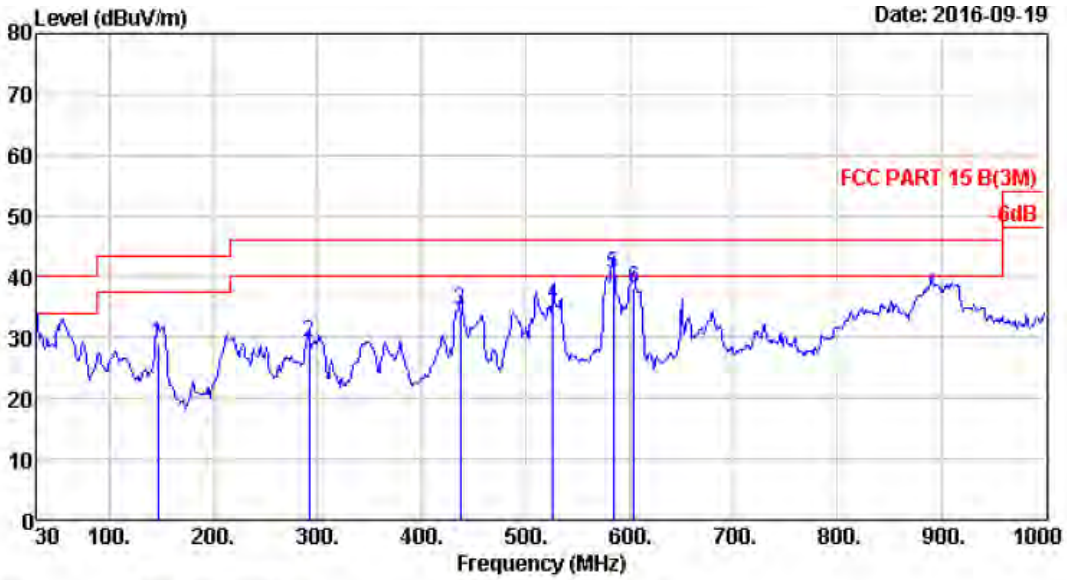
Site no. : site Data no. : 10
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH6 2437TX
Antenna a

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	212.36	8.56	1.91	24.82	35.29	43.50	8.21	QP
2	291.90	12.83	2.33	19.69	34.85	46.00	11.15	QP
3	367.56	14.76	2.68	14.68	32.12	46.00	13.88	QP
4	513.06	17.95	3.19	15.76	36.90	46.00	9.10	QP
5	602.30	19.66	3.41	13.94	37.01	46.00	8.99	QP
6	679.90	20.29	3.66	14.13	38.08	46.00	7.92	QP



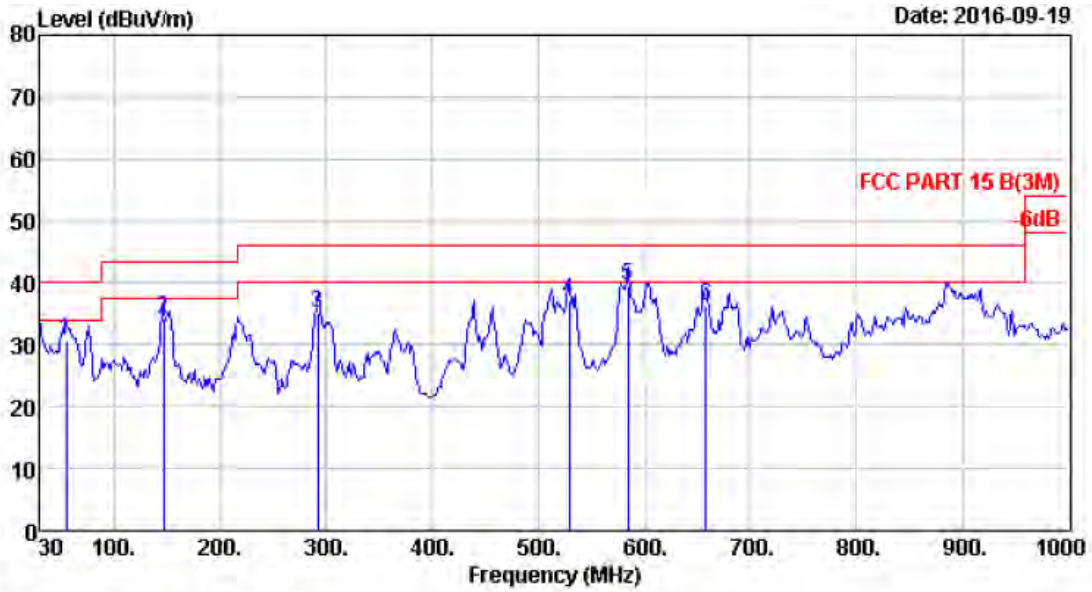
Site no. : 966 1# chamber Data no. : 11
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH11 2462TX
Antenna a

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	214.30	8.65	1.96	23.93	34.54	43.50	8.96	QP
2	291.90	12.83	2.33	20.02	35.18	46.00	10.82	QP
3	439.34	16.23	2.89	15.75	34.87	46.00	11.13	QP
4	513.06	17.95	3.19	14.17	35.31	46.00	10.69	QP
5	600.36	19.60	3.44	13.60	36.64	46.00	9.36	QP
6	679.90	20.29	3.66	15.05	39.00	46.00	7.00	QP



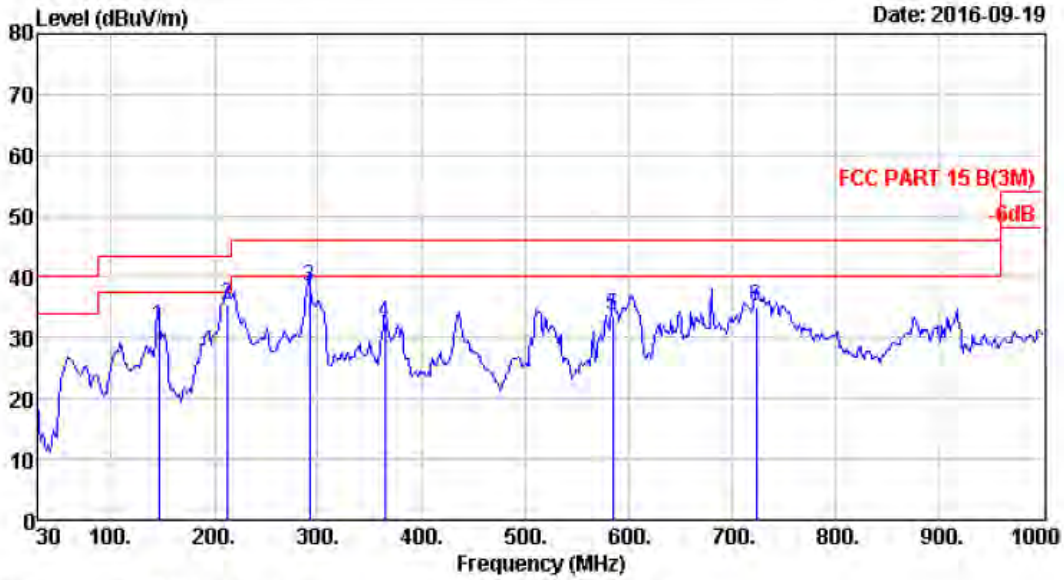
Site no. : 966 1# chamber Data no. : 12
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH11 2462TX
Antenna a

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	16.33	29.06	43.50	14.44	QP
2	291.90	12.83	2.33	14.08	29.24	46.00	16.76	QP
3	437.40	16.20	2.85	15.63	34.68	46.00	11.32	QP
4	526.64	18.15	3.16	14.20	35.51	46.00	10.49	QP
5	584.84	19.47	3.37	17.46	40.30	46.00	5.70	QP
6	604.24	19.71	3.41	14.86	37.98	46.00	8.02	QP



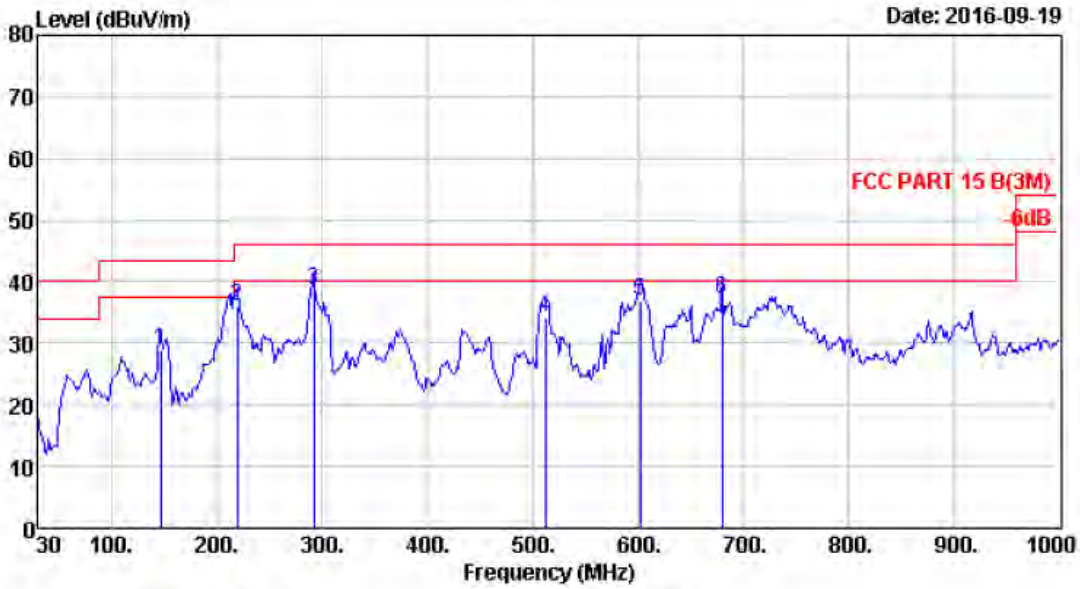
Site no. : 966 1# chamber Data no. : 13
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH1 2412TX
Antenna a+b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	54.25	5.82	0.93	23.88	30.63	40.00	9.37	QP
2	146.40	11.15	1.58	21.43	34.16	43.50	9.34	QP
3	291.90	12.83	2.33	20.10	35.26	46.00	10.74	QP
4	529.55	18.23	3.21	15.63	37.07	46.00	8.93	QP
5	584.84	19.47	3.37	16.80	39.64	46.00	6.36	QP
6	658.56	20.06	3.61	12.70	36.37	46.00	9.63	QP



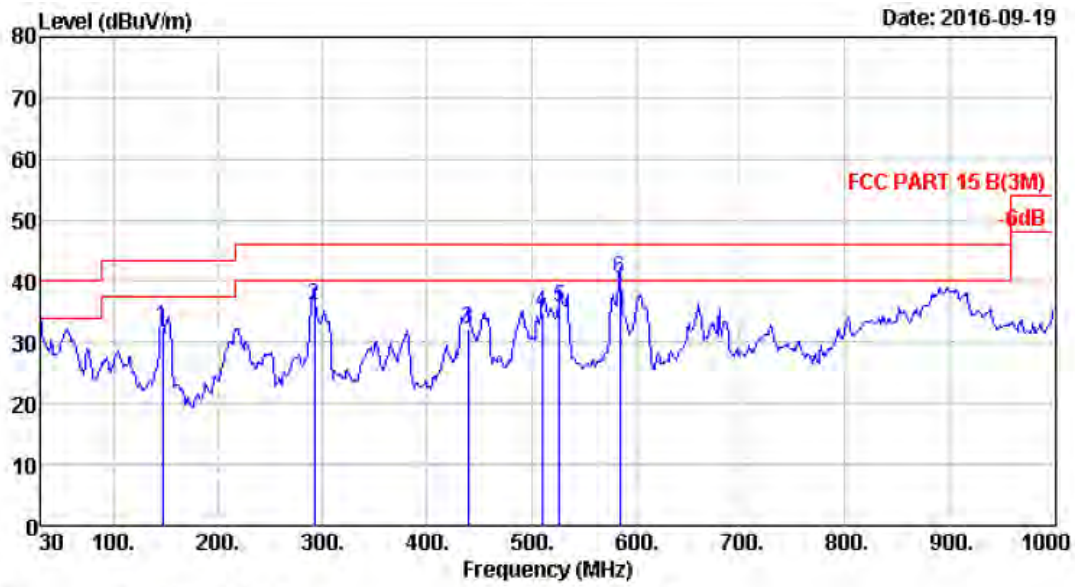
Site no. : 966 1# chamber Data no. : 14
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH1 2412TX
Antenna a+b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	19.24	31.97	43.50	11.53	QP
2	212.36	8.56	1.91	25.02	35.49	43.50	8.01	QP
3	291.90	12.83	2.33	23.25	38.41	46.00	7.59	QP
4	364.65	14.65	2.63	15.26	32.54	46.00	13.46	QP
5	584.84	19.47	3.37	10.95	33.79	46.00	12.21	QP
6	723.55	21.73	3.77	9.52	35.02	46.00	10.98	QP



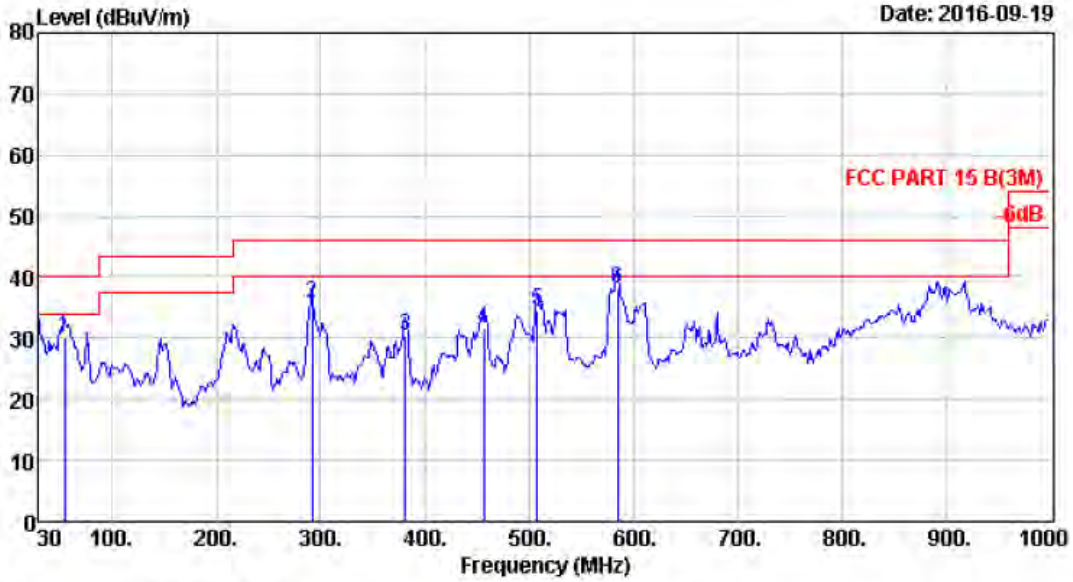
Site no. : 966 1# chamber Data no. : 15
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH6 2437TX
Antenna a+b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	16.31	29.04	43.50	14.46	QP
2	219.15	9.10	1.94	24.95	35.99	46.00	10.01	QP
3	291.90	12.83	2.33	23.46	38.62	46.00	7.38	QP
4	512.09	17.94	3.19	13.01	34.14	46.00	11.86	QP
5	602.30	19.66	3.41	13.97	37.04	46.00	8.96	QP
6	679.90	20.29	3.66	13.37	37.32	46.00	8.68	QP



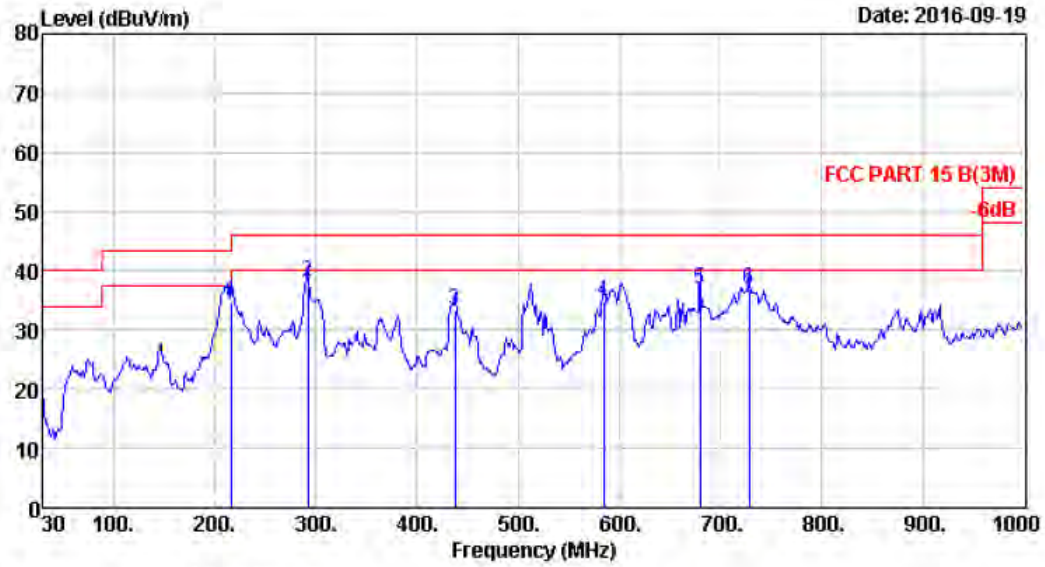
Site no. : 966 1# chamber Data no. : 16
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH6 2437TX
Antenna a+b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	19.68	32.41	43.50	11.09	QP
2	291.90	12.83	2.33	20.83	35.99	46.00	10.01	QP
3	439.34	16.23	2.89	13.16	32.28	46.00	13.72	QP
4	510.15	17.94	3.16	13.61	34.71	46.00	11.29	QP
5	526.64	18.15	3.16	14.40	35.71	46.00	10.29	QP
6	584.84	19.47	3.37	17.51	40.35	46.00	5.65	QP



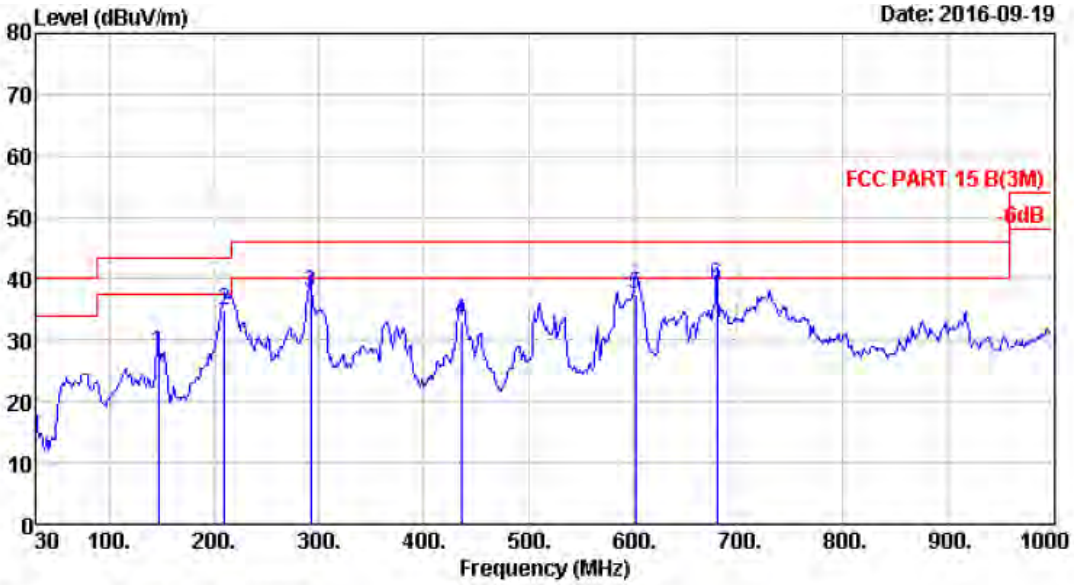
Site no. : 966 1# chamber Data no. : 17
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH11 2462TX
Antenna a+b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	54.25	5.82	0.93	23.33	30.08	40.00	9.92	QP
2	291.90	12.83	2.33	20.62	35.78	46.00	10.22	QP
3	381.14	15.06	2.67	12.72	30.45	46.00	15.55	QP
4	456.80	16.73	2.93	11.83	31.49	46.00	14.51	QP
5	507.24	17.92	3.17	13.54	34.63	46.00	11.37	QP
6	584.84	19.47	3.37	15.35	38.19	46.00	7.81	QP



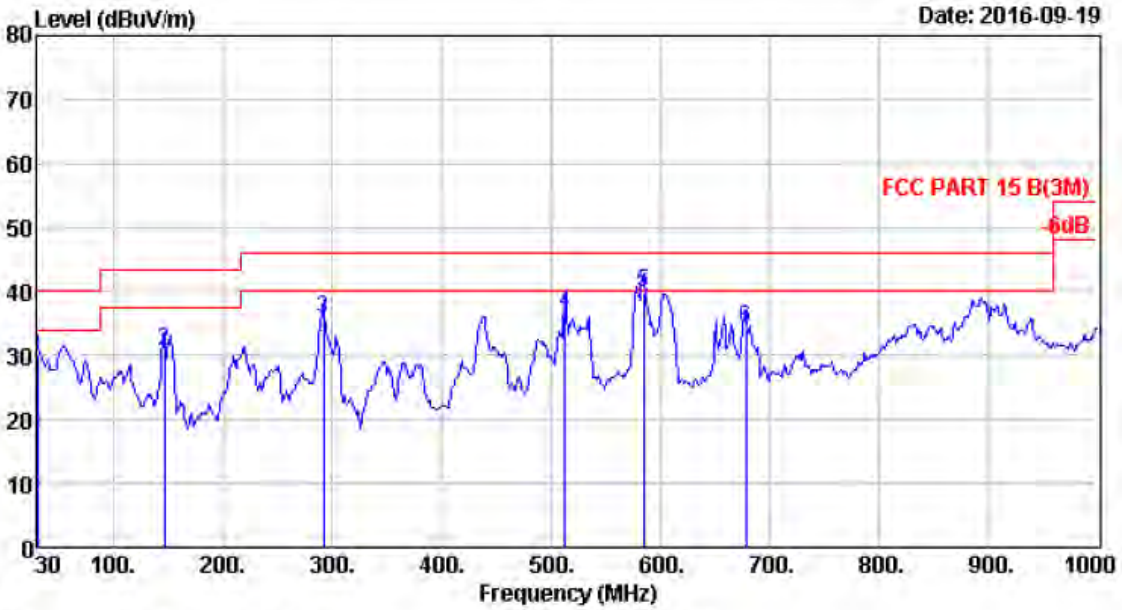
Site no. : 966 1# chamber Data no. : 18
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH11 2462TX
Antenna a+b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	216.24	8.80	1.95	23.97	34.72	46.00	11.28	QP
2	291.90	12.83	2.33	22.88	38.04	46.00	7.96	QP
3	437.40	16.20	2.85	14.18	33.23	46.00	12.77	QP
4	584.84	19.47	3.37	12.08	34.92	46.00	11.08	QP
5	679.90	20.29	3.66	12.97	36.92	46.00	9.08	QP
6	728.40	22.03	3.75	11.17	36.95	46.00	9.05	QP



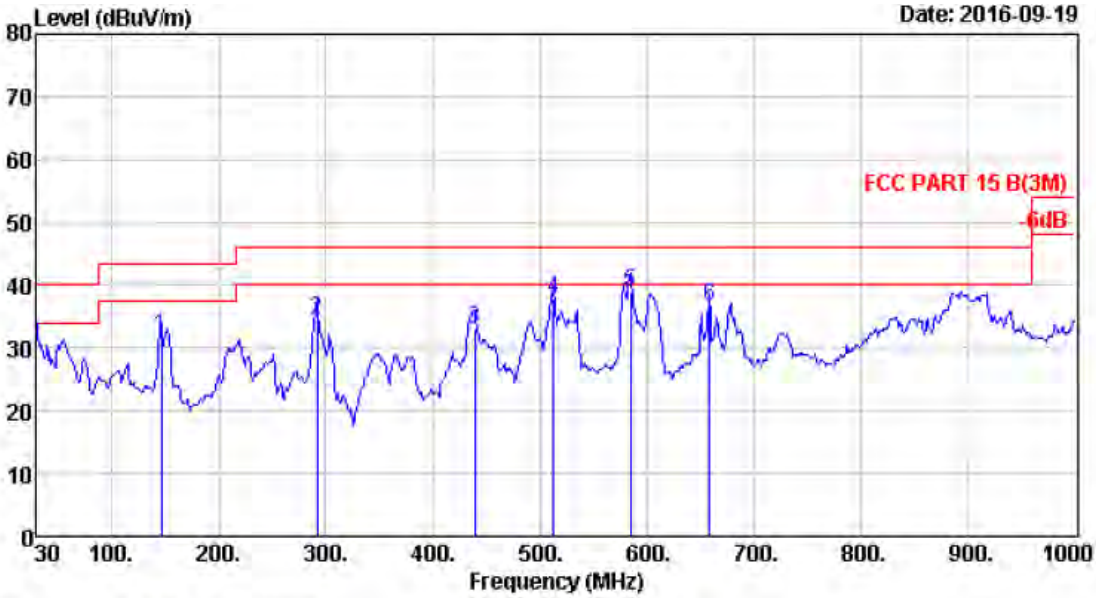
Site no. : 966 1# chamber Data no. : 19
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT40 CH3 2422TX
Antenna a+b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	15.45	28.18	43.50	15.32	QP
2	209.45	8.37	1.91	24.49	34.77	43.50	8.73	QP
3	291.90	12.83	2.33	22.75	37.91	46.00	8.09	QP
4	435.46	16.16	2.82	14.11	33.09	46.00	12.91	QP
5	602.30	19.66	3.41	14.55	37.62	46.00	8.38	QP
6	679.90	20.29	3.66	15.05	39.00	46.00	7.00	QP



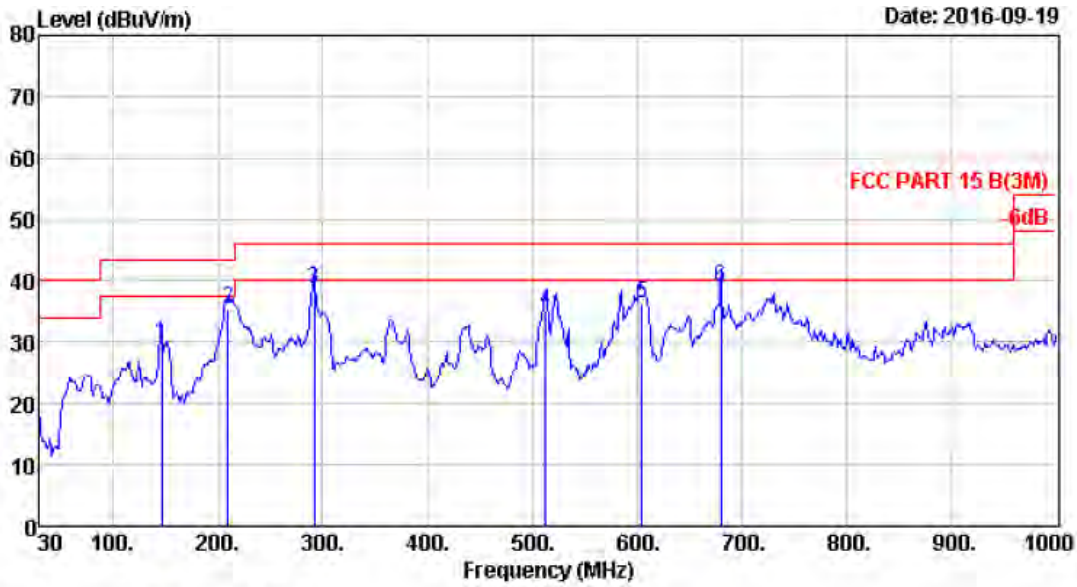
Site no. : 966 1# chamber Data no. : 20
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT40 CH3 2422TX
Antenna a+b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	10.86	30.02	40.00	9.98	QP
2	146.40	11.15	1.58	18.04	30.77	43.50	12.73	QP
3	291.90	12.83	2.33	20.52	35.68	46.00	10.32	QP
4	513.06	17.95	3.19	15.60	36.74	46.00	9.26	QP
5	584.84	19.47	3.37	17.05	39.89	46.00	6.11	QP
6	677.96	20.28	3.65	10.31	34.24	46.00	11.76	QP



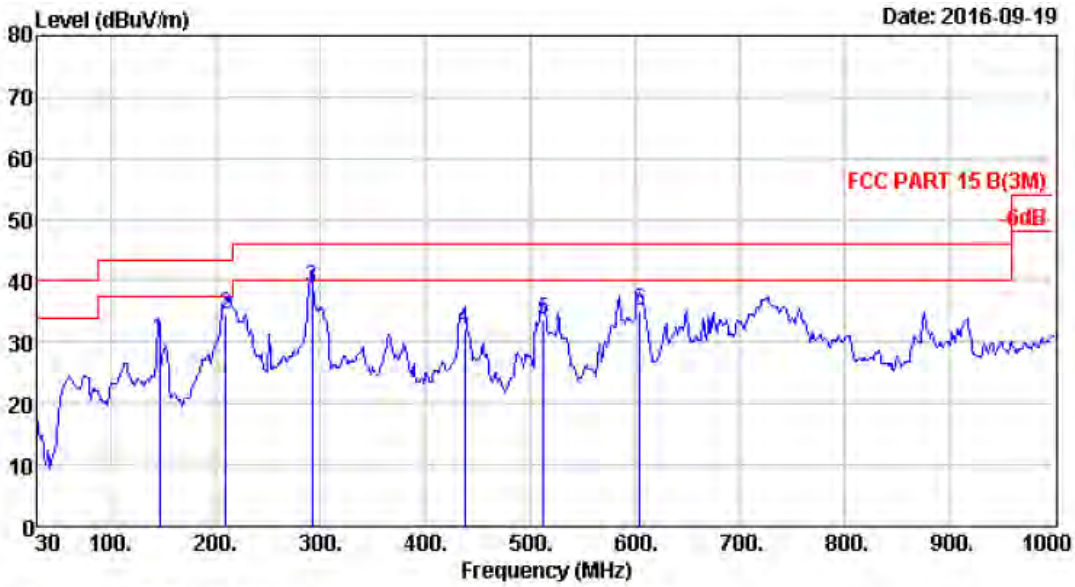
Site no. : 966 1# chamber Data no. : 21
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT40 CH6 2437TX
Antenna a+b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	19.26	31.99	43.50	11.51	QP
2	291.90	12.83	2.33	19.52	34.68	46.00	11.32	QP
3	439.34	16.23	2.89	13.96	33.08	46.00	12.92	QP
4	513.06	17.95	3.19	16.60	37.74	46.00	8.26	QP
5	584.84	19.47	3.37	16.05	38.89	46.00	7.11	QP
6	658.56	20.06	3.61	13.03	36.70	46.00	9.30	QP



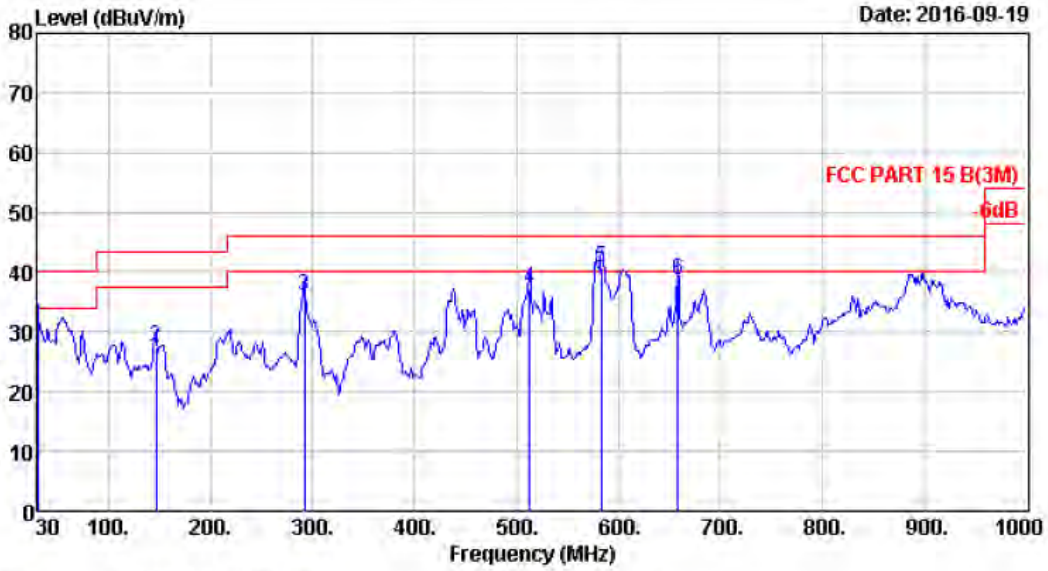
Site no. : 966 1# chamber Data no. : 22
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT40 CH6 2437TX
Antenna a+b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	17.10	29.83	43.50	13.67	QP
2	209.45	8.37	1.91	25.21	35.49	43.50	8.01	QP
3	291.90	12.83	2.33	23.65	38.81	46.00	7.19	QP
4	513.06	17.95	3.19	14.07	35.21	46.00	10.79	QP
5	604.24	19.71	3.41	13.25	36.37	46.00	9.63	QP
6	679.90	20.29	3.66	15.11	39.06	46.00	6.94	QP



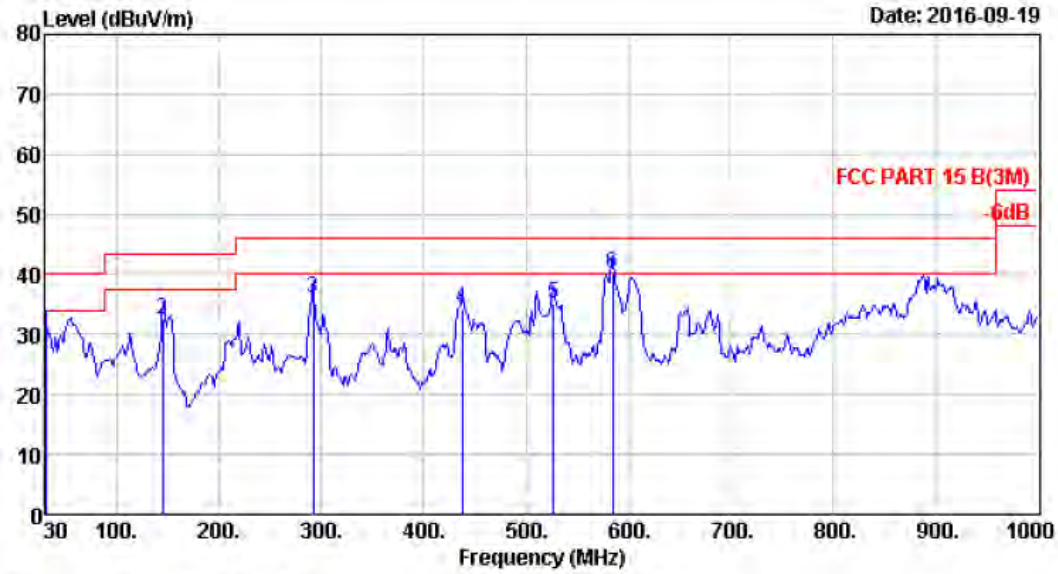
Site no. : 966 1# chamber Data no. : 23
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT40 CH9 2452TX
Antenna a+b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	17.66	30.39	43.50	13.11	QP
2	209.45	8.37	1.91	24.24	34.52	43.50	8.98	QP
3	291.90	12.83	2.33	23.77	38.93	46.00	7.07	QP
4	437.40	16.20	2.85	13.17	32.22	46.00	13.78	QP
5	513.06	17.95	3.19	12.47	33.61	46.00	12.39	QP
6	604.24	19.71	3.41	12.03	35.15	46.00	10.85	QP



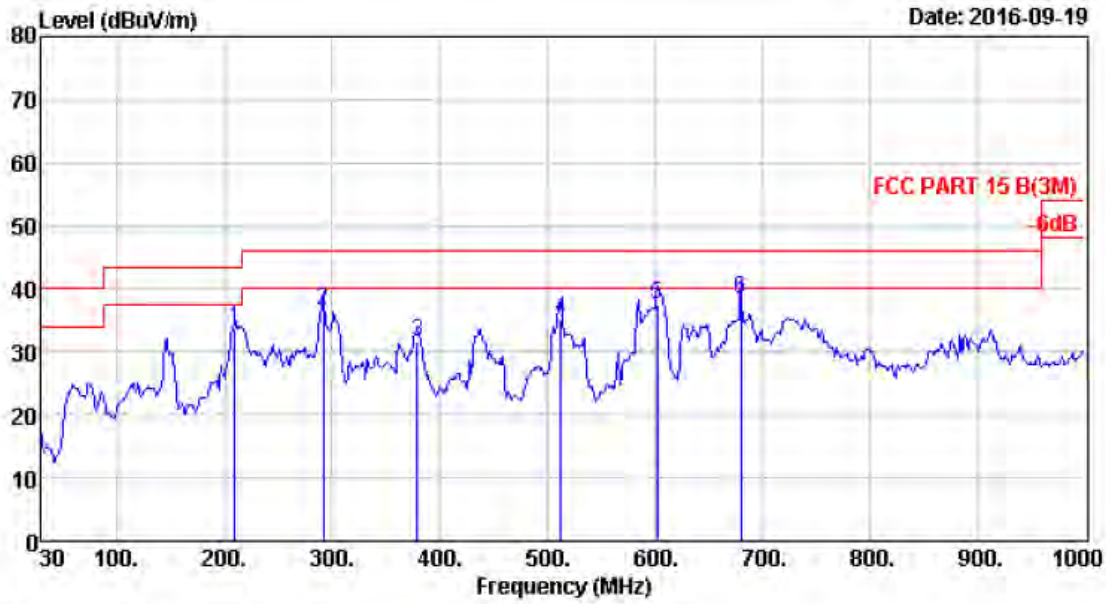
Site no. : 966 1# chamber Data no. : 24
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT40 CH9 2452TX
Antenna a+b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	13.31	32.47	40.00	7.53	QP
2	146.40	11.15	1.58	14.59	27.32	43.50	16.18	QP
3	291.90	12.83	2.33	20.74	35.90	46.00	10.10	QP
4	513.06	17.95	3.19	15.93	37.07	46.00	8.93	QP
5	582.90	19.48	3.38	17.96	40.82	46.00	5.18	QP
6	658.56	20.06	3.61	15.12	38.79	46.00	7.21	QP



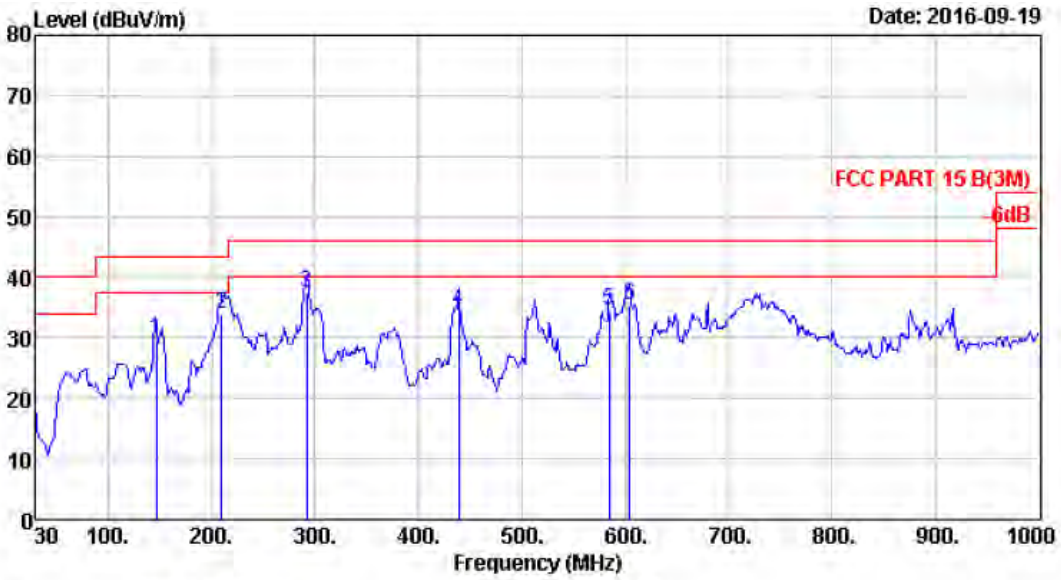
Site no. : 966 1# chamber Data no. : 25
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH1 2412TX
Antenna b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	12.67	31.83	40.00	8.17	QP
2	144.46	11.26	1.54	19.67	32.47	43.50	11.03	QP
3	291.90	12.83	2.33	20.71	35.87	46.00	10.13	QP
4	437.40	16.20	2.85	15.21	34.26	46.00	11.74	QP
5	526.64	18.15	3.16	13.92	35.23	46.00	10.77	QP
6	584.84	19.47	3.37	17.23	40.07	46.00	5.93	QP



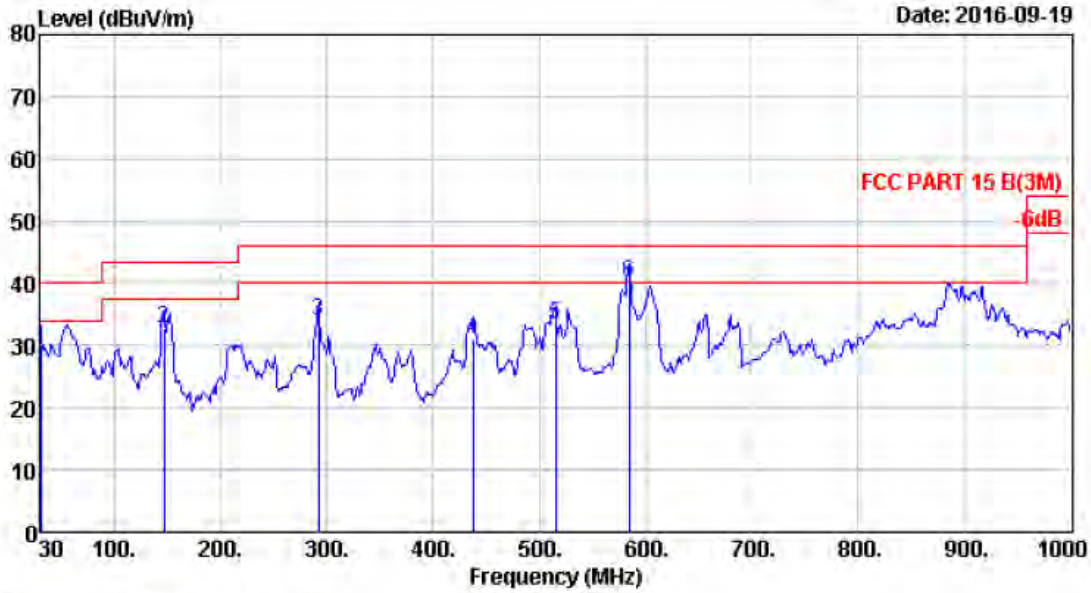
Site no. : 966 1# chamber Data no. : 26
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH1 2412TX
Antenna b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	209.45	8.37	1.91	23.27	33.55	43.50	9.95	QP
2	291.90	12.83	2.33	21.36	36.52	46.00	9.48	QP
3	379.20	14.99	2.64	14.06	31.69	46.00	14.31	QP
4	513.06	17.95	3.19	13.95	35.09	46.00	10.91	QP
5	602.30	19.66	3.41	14.38	37.45	46.00	8.55	QP
6	679.90	20.29	3.66	14.37	38.32	46.00	7.68	QP



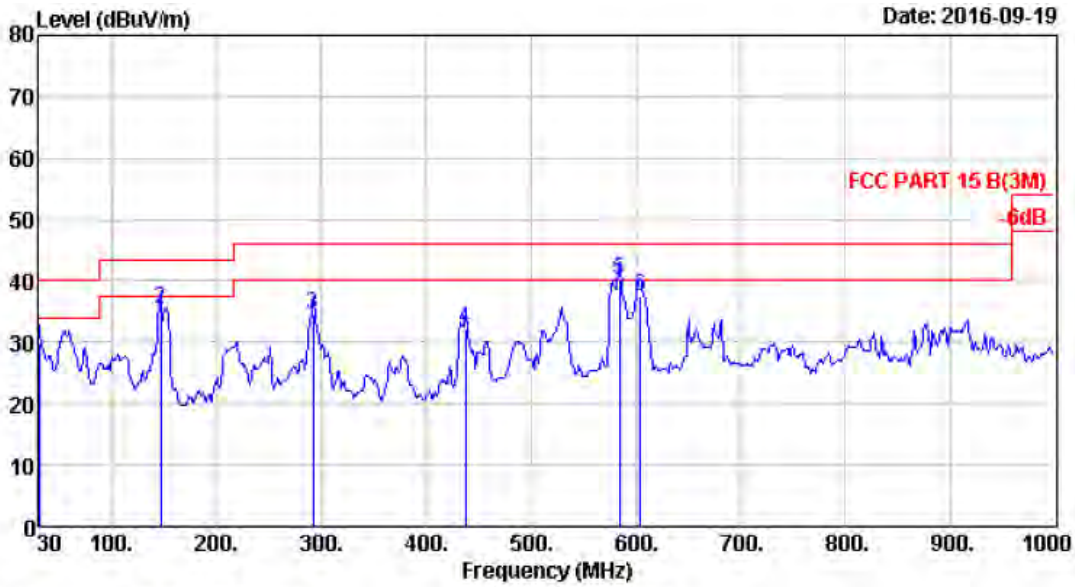
Site no. : 966 1# chamber Data no. : 27
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH6 2437TX
Antenna b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	17.15	29.88	43.50	13.62	QP
2	209.45	8.37	1.91	23.81	34.09	43.50	9.41	QP
3	291.90	12.83	2.33	22.43	37.59	46.00	8.41	QP
4	439.34	16.23	2.89	15.54	34.66	46.00	11.34	QP
5	584.84	19.47	3.37	11.64	34.48	46.00	11.52	QP
6	604.24	19.71	3.41	12.44	35.56	46.00	10.44	QP



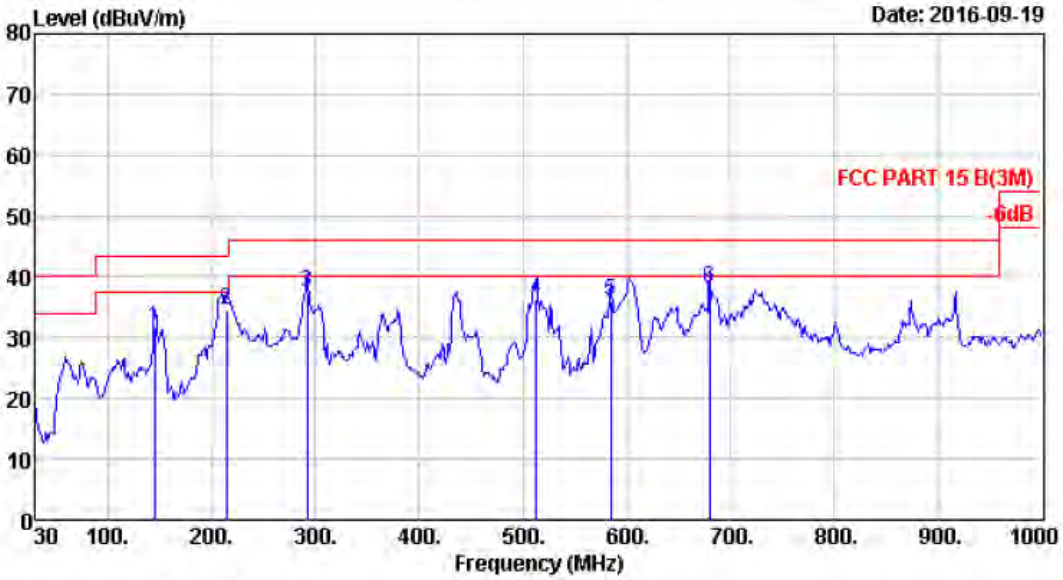
Site no. : 966 1# chamber Data no. : 28
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH6 2437TX
Antenna b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	10.92	30.08	40.00	9.92	QP
2	146.40	11.15	1.58	20.02	32.75	43.50	10.75	QP
3	291.90	12.83	2.33	18.85	34.01	46.00	11.99	QP
4	437.40	16.20	2.85	12.07	31.12	46.00	14.88	QP
5	515.00	17.95	3.17	12.15	33.27	46.00	12.73	QP
6	584.84	19.47	3.37	17.26	40.10	46.00	5.90	QP



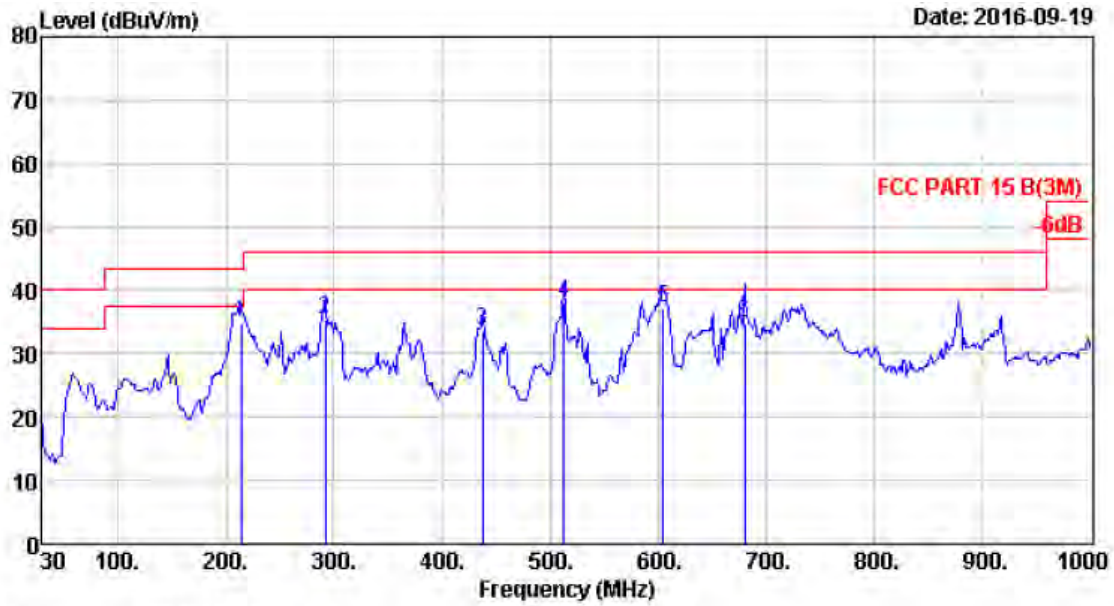
Site no. : 966 1# chamber Data no. : 29
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH11 2462TX
Antenna b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	10.62	29.78	40.00	10.22	QP
2	146.40	11.15	1.58	22.59	35.32	43.50	8.18	QP
3	291.90	12.83	2.33	19.45	34.61	46.00	11.39	QP
4	437.40	16.20	2.85	13.04	32.09	46.00	13.91	QP
5	584.84	19.47	3.37	17.30	40.14	46.00	5.86	QP
6	604.24	19.71	3.41	14.37	37.49	46.00	8.51	QP



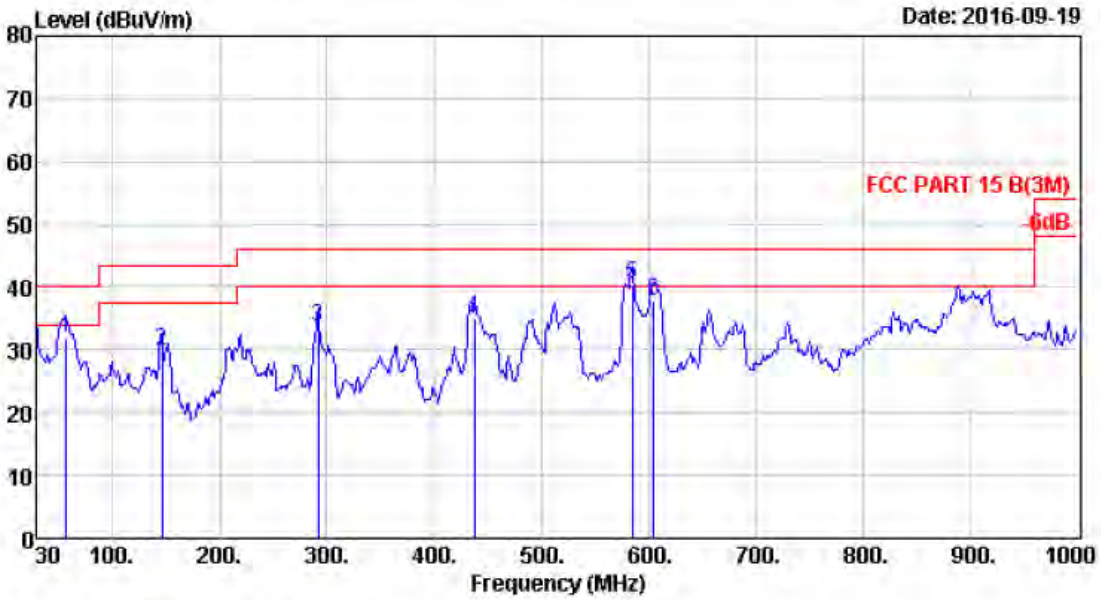
Site no. : 966 1# chamber Data no. : 30
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH11 2462TX
Antenna b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	144.46	11.26	1.54	18.84	31.64	43.50	11.86	QP
2	214.30	8.65	1.96	23.89	34.50	43.50	9.00	QP
3	291.90	12.83	2.33	22.45	37.61	46.00	8.39	QP
4	513.06	17.95	3.19	15.05	36.19	46.00	9.81	QP
5	584.84	19.47	3.37	13.21	36.05	46.00	9.95	QP
6	679.90	20.29	3.66	14.16	38.11	46.00	7.89	QP



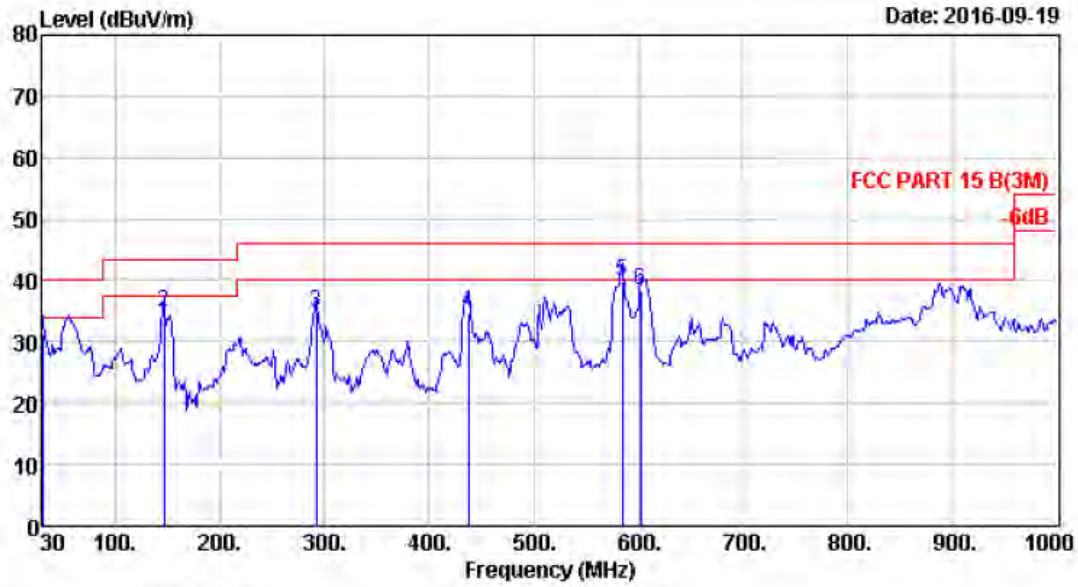
Site no. : 966 1# chamber Data no. : 31
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH1 2412TX
Antenna b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	214.30	8.65	1.96	24.29	34.90	43.50	8.60	QP
2	291.90	12.83	2.33	20.37	35.53	46.00	10.47	QP
3	437.40	16.20	2.85	14.59	33.64	46.00	12.36	QP
4	513.06	17.95	3.19	16.95	38.09	46.00	7.91	QP
5	604.24	19.71	3.41	14.20	37.32	46.00	8.68	QP
6	679.90	20.29	3.66	10.96	34.91	46.00	11.09	QP



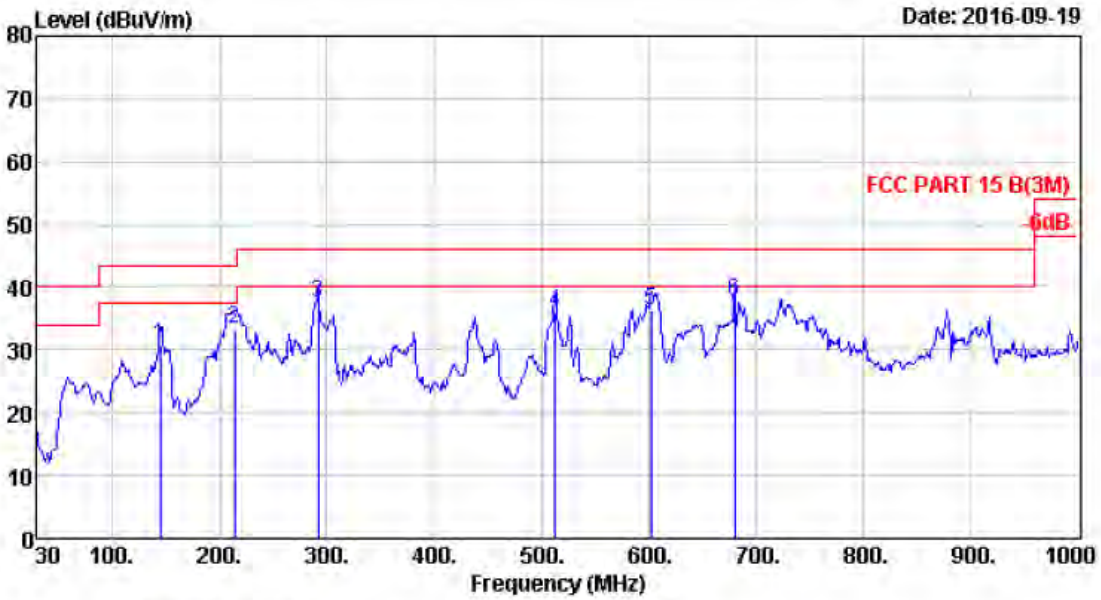
Site no. : 966 1# chamber Data no. : 32
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH1 2412TX
Antenna b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	57.16	5.06	0.99	25.84	31.89	40.00	8.11	QP
2	146.40	11.15	1.58	17.15	29.88	43.50	13.62	QP
3	291.90	12.83	2.33	18.54	33.70	46.00	12.30	QP
4	437.40	16.20	2.85	15.99	35.04	46.00	10.96	QP
5	584.84	19.47	3.37	17.48	40.32	46.00	5.68	QP
6	604.24	19.71	3.41	14.65	37.77	46.00	8.23	QP



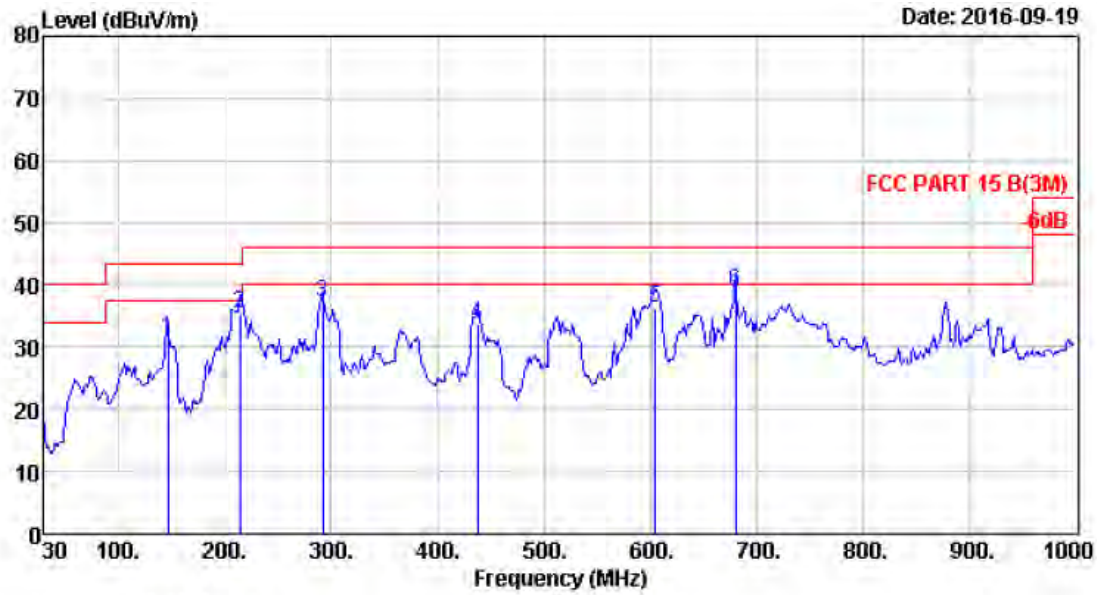
Site no. : 966 1# chamber Data no. : 33
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH6 2437TX
Antenna b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	12.18	31.34	40.00	8.66	QP
2	146.40	11.15	1.58	22.08	34.81	43.50	8.69	QP
3	291.90	12.83	2.33	19.74	34.90	46.00	11.10	QP
4	437.40	16.20	2.85	15.87	34.92	46.00	11.08	QP
5	584.84	19.47	3.37	16.89	39.73	46.00	6.27	QP
6	602.30	19.66	3.41	15.25	38.32	46.00	7.68	QP



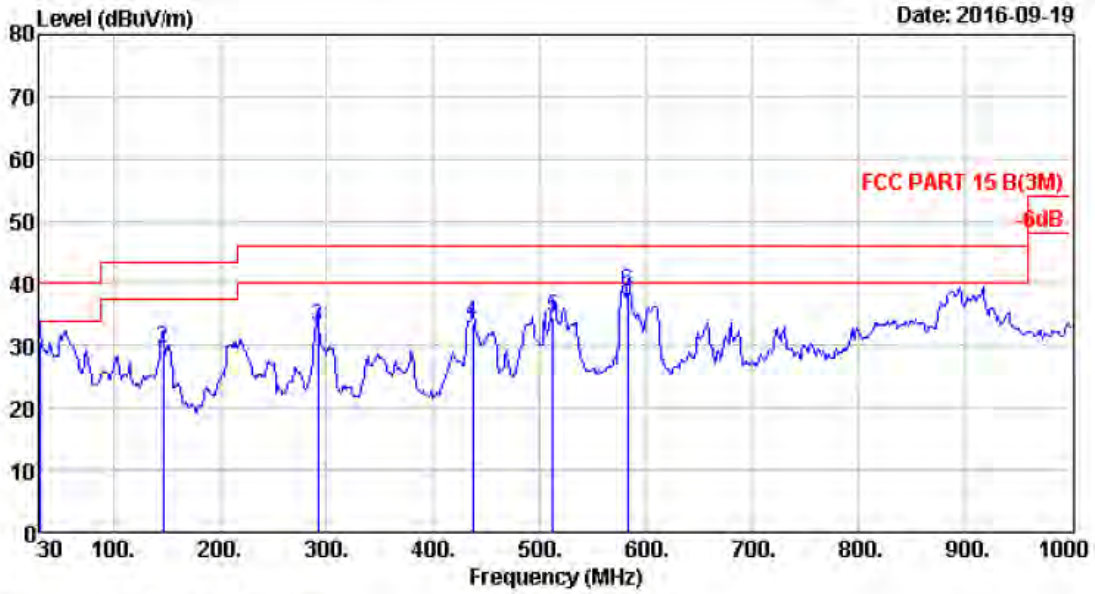
Site no. : 966 1# chamber Data no. : 34
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH6 2437TX
Antenna b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	144.46	11.26	1.54	17.97	30.77	43.50	12.73	QP
2	214.30	8.65	1.96	22.84	33.45	43.50	10.05	QP
3	291.90	12.83	2.33	22.39	37.55	46.00	8.45	QP
4	513.06	17.95	3.19	14.98	36.12	46.00	9.88	QP
5	602.30	19.66	3.41	13.15	36.22	46.00	9.78	QP
6	679.90	20.29	3.66	13.78	37.73	46.00	8.27	QP



Site no. : 966 1# chamber Data no. : 35
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH11 2462TX
Antenna b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	18.43	31.16	43.50	12.34	QP
2	214.30	8.65	1.96	24.78	35.39	43.50	8.11	QP
3	291.90	12.83	2.33	21.92	37.08	46.00	8.92	QP
4	437.40	16.20	2.85	14.63	33.68	46.00	12.32	QP
5	604.24	19.71	3.41	13.26	36.38	46.00	9.62	QP
6	679.90	20.29	3.66	15.01	38.96	46.00	7.04	QP



Site no. : 966 1# chamber Data no. : 36
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH11 2462TX
Antenna b

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.51	0.65	11.50	30.66	40.00	9.34	QP
2	146.40	11.15	1.58	16.76	29.49	43.50	14.01	QP
3	291.90	12.83	2.33	17.79	32.95	46.00	13.05	QP
4	437.40	16.20	2.85	14.63	33.68	46.00	12.32	QP
5	513.06	17.95	3.19	13.29	34.43	46.00	11.57	QP
6	582.90	19.48	3.38	15.78	38.64	46.00	7.36	QP

1000-18000 MHz

Site no. : 966 1# chamber Data no. : 37
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH1 2412TX
Antenna a

	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	1714.00	24.73	5.13	35.17	50.52	45.21	74.00	28.79	Peak
2	2412.00	27.60	6.64	34.64	88.81	88.41	74.00	-14.41	Peak
3	2785.00	27.89	8.04	36.69	48.11	47.35	74.00	26.65	Peak
4	4824.00	31.28	11.84	35.66	28.59	36.05	74.00	37.95	Peak
5	7236.00	36.53	11.55	33.99	28.80	42.89	74.00	31.11	Peak
6	11234.00	39.37	11.12	33.25	29.67	46.91	74.00	27.09	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. : 966 1# chamber Data no. : 38
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH1 2412TX
Antenna a

	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	2412.00	27.60	6.64	34.64	89.01	88.61	74.00	-14.61	Peak
2	2955.00	28.12	8.82	37.21	45.45	45.18	74.00	28.82	Peak
3	4824.00	31.28	11.84	35.66	30.54	38.00	74.00	36.00	Peak
4	7236.00	36.53	11.55	33.99	30.13	44.22	74.00	29.78	Peak
5	9330.00	37.97	11.62	34.68	30.99	45.90	74.00	28.10	Peak
6	13546.00	40.21	11.44	32.61	29.29	48.33	74.00	25.67	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. : 966 1# chamber Data no. : 39
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH6 2437TX
Antenna a

	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	1850.00	25.15	5.63	35.27	46.64	42.15	74.00	31.85	Peak
2	2437.00	27.60	6.67	34.85	86.44	85.86	74.00	-11.86	Peak
3	2785.00	27.89	8.04	36.69	49.71	48.95	74.00	25.05	Peak
4	4874.00	31.37	12.07	35.76	31.28	38.96	74.00	35.04	Peak
5	7281.00	36.54	11.56	34.09	30.03	44.04	74.00	29.96	Peak
6	11574.00	39.12	10.99	33.27	28.96	45.80	74.00	28.20	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. : 966 1# chamber Data no. : 40
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH6 2437TX
Antenna a

	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	1816.00	25.02	5.50	35.28	46.77	42.01	74.00	31.99	Peak
2	2437.00	27.60	6.67	34.85	85.14	84.56	74.00	-10.56	Peak
3	2955.00	28.12	8.82	37.21	45.59	45.32	74.00	28.68	Peak
4	4874.00	31.37	12.07	35.76	32.88	40.56	74.00	33.44	Peak
5	7281.00	36.54	11.56	34.09	29.10	43.11	74.00	30.89	Peak
6	8684.00	37.32	11.45	33.66	30.66	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.

```
Site no.      : 966 1# chamber              Data no.  : 41
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11b CH11 2462TX
                Antenna a
```

	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	1850.00	25.15	5.63	35.27	43.45	38.96	74.00	35.04	Peak
2	2462.00	27.58	6.69	34.98	88.70	87.99	74.00	-13.99	Peak
3	2955.00	28.12	8.82	37.21	46.11	45.84	74.00	28.16	Peak
4	4924.00	31.45	12.29	35.91	31.68	39.51	74.00	34.49	Peak
5	7386.00	36.57	11.59	34.23	30.27	44.20	74.00	29.80	Peak
6	8684.00	37.32	11.45	33.66	28.86	43.97	74.00	30.03	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.      : 966 1# chamber              Data no.  : 42
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11b CH11 2462TX
                Antenna a
```

	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	1850.00	25.15	5.63	35.27	45.76	41.27	74.00	32.73	Peak
2	2462.00	27.58	6.69	34.98	87.57	86.86	74.00	-12.86	Peak
3	2836.00	27.93	8.28	37.01	49.31	48.51	74.00	25.49	Peak
4	4924.00	31.45	12.29	35.91	34.29	42.12	74.00	31.88	Peak
5	7386.00	36.57	11.59	34.23	28.83	42.76	74.00	31.24	Peak
6	14090.00	41.54	10.91	33.13	26.53	45.85	74.00	28.15	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. : 966 1# chamber Data no. : 43
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH1 2412TX
Antenna a

	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	1850.00	25.15	5.63	35.27	45.22	40.73	74.00	33.27	Peak
2	2412.00	27.60	6.64	34.64	82.57	82.17	74.00	-8.17	Peak
3	2955.00	28.12	8.82	37.21	45.02	44.75	74.00	29.25	Peak
4	4824.00	31.28	11.84	35.66	36.31	43.77	74.00	30.23	Peak
5	7236.00	36.53	11.55	33.99	29.68	43.77	74.00	30.23	Peak
6	8667.00	37.30	11.45	33.67	28.69	43.77	74.00	30.23	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. : 966 1# chamber Data no. : 44
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH1 2412TX
Antenna a

	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	1850.00	25.15	5.63	35.27	42.33	37.84	74.00	36.16	Peak
2	2412.00	27.60	6.64	34.64	83.51	83.11	74.00	-9.11	Peak
3	2785.00	27.89	8.04	36.69	47.75	46.99	74.00	27.01	Peak
4	4824.00	31.28	11.84	35.66	31.41	38.87	74.00	35.13	Peak
5	7236.00	36.53	11.55	33.99	29.29	43.38	74.00	30.62	Peak
6	8684.00	37.32	11.45	33.66	30.51	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.      : 966 1# chamber              Data no.  : 45
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11g CH6 2437TX
                Antenna a
```

	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	1850.00	25.15	5.63	35.27	45.15	40.66	74.00	33.34	Peak
2	2437.00	27.60	6.67	34.85	86.55	85.97	74.00	-11.97	Peak
3	2955.00	28.12	8.82	37.21	45.00	44.73	74.00	29.27	Peak
4	4874.00	31.37	12.07	35.76	31.58	39.26	74.00	34.74	Peak
5	7281.00	36.54	11.56	34.09	29.56	43.57	74.00	30.43	Peak
6	14260.00	41.68	10.92	33.42	28.13	47.31	74.00	26.69	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.      : 966 1# chamber              Data no.  : 46
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11g CH6 2437TX
                Antenna a
```

	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	1816.00	25.02	5.50	35.28	46.23	41.47	74.00	32.53	Peak
2	2437.00	27.60	6.67	34.85	83.78	83.20	74.00	-9.20	Peak
3	2836.00	27.93	8.28	37.01	47.09	46.29	74.00	27.71	Peak
4	4874.00	31.37	12.07	35.76	30.70	38.38	74.00	35.62	Peak
5	7281.00	36.54	11.56	34.09	30.25	44.26	74.00	29.74	Peak
6	8684.00	37.32	11.45	33.66	31.29	46.40	74.00	27.60	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.      : 966 1# chamber              Data no.  : 47
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11g CH11 2462TX
                Antenna a
```

	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	86.12	85.41	74.00	-11.41	Peak
2	2955.00	28.12	8.82	37.21	40.56	40.29	74.00	33.71	Peak
3	4924.00	31.45	12.29	35.91	30.13	37.96	74.00	36.04	Peak
4	7386.00	36.57	11.59	34.23	29.32	43.25	74.00	30.75	Peak
5	10775.00	39.28	11.30	34.02	28.78	45.34	74.00	28.66	Peak
6	14056.00	41.51	10.90	33.06	27.81	47.16	74.00	26.84	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.      : 966 1# chamber              Data no.  : 48
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11g CH11 2462TX
                Antenna a
```

	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	83.70	82.99	74.00	-8.99	Peak
2	2955.00	28.12	8.82	37.21	44.83	44.56	74.00	29.44	Peak
3	4924.00	31.45	12.29	35.91	34.55	42.38	74.00	31.62	Peak
4	7386.00	36.57	11.59	34.23	29.88	43.81	74.00	30.19	Peak
5	8650.00	37.27	11.45	33.68	29.74	44.78	74.00	29.22	Peak
6	13886.00	41.16	11.04	33.03	27.54	46.71	74.00	27.29	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. : 966 1# chamber Data no. : 49
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH1 2412TX
Antenna a+b

	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	1884.00	25.28	5.75	35.23	44.82	40.62	74.00	33.38	Peak
2	2412.00	27.60	6.64	34.64	85.50	85.10	74.00	-11.10	Peak
3	2785.00	27.89	8.04	36.69	43.35	42.59	74.00	31.41	Peak
4	4824.00	31.28	11.84	35.66	30.84	38.30	74.00	35.70	Peak
5	7236.00	36.53	11.55	33.99	29.72	43.81	74.00	30.19	Peak
6	8684.00	37.32	11.45	33.66	30.98	46.09	74.00	27.91	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. : 966 1# chamber Data no. : 50
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH1 2412TX
Antenna a+b

	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	1850.00	25.15	5.63	35.27	40.86	36.37	74.00	37.63	Peak
2	2412.00	27.60	6.64	34.64	86.12	85.72	74.00	-11.72	Peak
3	2955.00	28.12	8.82	37.21	44.19	43.92	74.00	30.08	Peak
4	4824.00	31.28	11.84	35.66	29.40	36.86	74.00	37.14	Peak
5	7236.00	36.53	11.55	33.99	30.31	44.40	74.00	29.60	Peak
6	8480.00	36.91	11.45	34.18	30.68	44.86	74.00	29.14	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. : 966 1# chamber Data no. : 51
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH6 2437TX
Antenna a+b

	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	1425.00	25.09	4.20	35.06	45.50	39.73	74.00	34.27	Peak
2	1816.00	25.02	5.50	35.28	46.90	42.14	74.00	31.86	Peak
3	2445.00	27.59	6.67	34.85	84.34	83.75	74.00	-9.75	Peak
4	2836.00	27.93	8.28	37.01	42.51	41.71	74.00	32.29	Peak
5	4874.00	31.37	12.07	35.76	30.04	37.72	74.00	36.28	Peak
6	7281.00	36.54	11.56	34.09	28.16	42.17	74.00	31.83	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. : 966 1# chamber Data no. : 52
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH6 2437TX
Antenna a+b

	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	1595.00	24.86	4.69	35.12	43.55	37.98	74.00	36.02	Peak
2	1816.00	25.02	5.50	35.28	44.87	40.11	74.00	33.89	Peak
3	2437.00	27.60	6.67	34.85	84.87	84.29	74.00	-10.29	Peak
4	4874.00	31.37	12.07	35.76	30.65	38.33	74.00	35.67	Peak
5	7281.00	36.54	11.56	34.09	30.25	44.26	74.00	29.74	Peak
6	8684.00	37.32	11.45	33.66	31.51	46.62	74.00	27.38	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. : 966 1# chamber Data no. : 53
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH11 2462TX
Antenna a+b

	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	1595.00	24.86	4.69	35.12	50.14	44.57	74.00	29.43	Peak
2	2462.00	27.58	6.69	34.98	88.75	88.04	74.00	-14.04	Peak
3	2785.00	27.89	8.04	36.69	46.06	45.30	74.00	28.70	Peak
4	4655.00	30.94	11.09	35.57	39.57	46.03	74.00	27.97	Peak
5	4924.00	31.45	12.29	35.91	32.51	40.34	74.00	33.66	Peak
6	7386.00	36.57	11.59	34.23	30.56	44.49	74.00	29.51	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. : 966 1# chamber Data no. : 54
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH11 2462TX
Antenna a+b

	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	1884.00	25.28	5.75	35.23	50.34	46.14	74.00	27.86	Peak
2	2462.00	27.58	6.69	34.98	86.41	85.70	74.00	-11.70	Peak
3	4604.00	30.80	10.87	35.59	39.83	45.91	74.00	28.09	Peak
4	4924.00	31.45	12.29	35.91	30.14	37.97	74.00	36.03	Peak
5	7386.00	36.57	11.59	34.23	28.67	42.60	74.00	31.40	Peak
6	8735.00	37.40	11.45	33.76	28.64	43.73	74.00	30.27	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. : 966 1# chamber Data no. : 55
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT40 CH3 2422TX
Antenna a+b

	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	1595.00	24.86	4.69	35.12	54.31	48.74	74.00	25.26	Peak
2	2422.00	27.60	6.66	34.74	88.48	88.00	74.00	-14.00	Peak
3	2785.00	27.89	8.04	36.69	44.94	44.18	74.00	29.82	Peak
4	4536.00	30.67	10.57	35.63	41.47	47.08	74.00	26.92	Peak
5	4844.00	31.31	11.92	35.68	31.45	39.00	74.00	35.00	Peak
6	7266.00	36.54	11.56	34.05	29.68	43.73	74.00	30.27	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. : 966 1# chamber Data no. : 56
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT40 CH3 2422TX
Antenna a+b

	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	1884.00	25.28	5.75	35.23	52.06	47.86	74.00	26.14	Peak
2	2422.00	27.60	6.66	34.74	88.47	87.99	74.00	-13.99	Peak
3	2785.00	27.89	8.04	36.69	44.26	43.50	74.00	30.50	Peak
4	4621.00	30.85	10.94	35.58	40.04	46.25	74.00	27.75	Peak
5	4844.00	31.31	11.92	35.68	30.73	38.28	74.00	35.72	Peak
6	7266.00	36.54	11.56	34.05	30.26	44.31	74.00	29.69	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.      : 966 1# chamber              Data no.  : 57
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11n HT40 CH6 2437TX
                Antenna a+b
```

	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	1595.00	24.86	4.69	35.12	53.20	47.63	74.00	26.37	Peak
2	2437.00	27.60	6.67	34.85	89.57	88.99	74.00	-14.99	Peak
3	2836.00	27.93	8.28	37.01	45.74	44.94	74.00	29.06	Peak
4	4536.00	30.67	10.57	35.63	41.34	46.95	74.00	27.05	Peak
5	4874.00	31.37	12.07	35.76	30.02	37.70	74.00	36.30	Peak
6	7281.00	36.54	11.56	34.09	27.50	41.51	74.00	32.49	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.      : 966 1# chamber              Data no.  : 58
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11n HT40 CH6 2437TX
                Antenna a+b
```

	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	1884.00	25.28	5.75	35.23	52.28	48.08	74.00	25.92	Peak
2	2437.00	27.60	6.67	34.85	89.21	88.63	74.00	-14.63	Peak
3	2836.00	27.93	8.28	37.01	44.33	43.53	74.00	30.47	Peak
4	4706.00	31.09	11.32	35.57	40.10	46.94	74.00	27.06	Peak
5	4874.00	31.37	12.07	35.76	28.60	36.28	74.00	37.72	Peak
6	7281.00	36.54	11.56	34.09	25.16	39.17	74.00	34.83	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. : 966 1# chamber Data no. : 59
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT40 CH9 2452TX
Antenna a+b

	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	1884.00	25.28	5.75	35.23	52.88	48.68	74.00	25.32	Peak
2	2452.00	27.59	6.67	34.85	90.59	90.00	74.00	-16.00	Peak
3	4706.00	31.09	11.32	35.57	41.62	48.46	74.00	25.54	Peak
4	4904.00	31.42	12.22	35.87	29.77	37.54	74.00	36.46	Peak
5	7356.00	36.56	11.58	34.19	31.26	45.21	74.00	28.79	Peak
6	9126.00	37.62	11.52	34.09	28.60	43.65	74.00	30.35	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. : 966 1# chamber Data no. : 60
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT40 CH9 2452TX
Antenna a+b

	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	1595.00	24.86	4.69	35.12	53.80	48.23	74.00	25.77	Peak
2	2452.00	27.59	6.67	34.85	90.62	90.03	74.00	-16.03	Peak
3	4570.00	30.74	10.72	35.61	41.13	46.98	74.00	27.02	Peak
4	4904.00	31.42	12.22	35.87	28.50	36.27	74.00	37.73	Peak
5	7356.00	36.56	11.58	34.19	28.60	42.55	74.00	31.45	Peak
6	8684.00	37.32	11.45	33.66	27.52	42.63	74.00	31.37	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. : 966 1# chamber Data no. : 61
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH1 2412TX
Antenna b

	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	2412.00	27.60	6.64	34.64	91.39	90.99	74.00	-16.99	Peak
2	2785.00	27.89	8.04	36.69	44.10	43.34	74.00	30.66	Peak
3	4655.00	30.94	11.09	35.57	37.81	44.27	74.00	29.73	Peak
4	4824.00	31.28	11.84	35.66	30.65	38.11	74.00	35.89	Peak
5	7236.00	36.53	11.55	33.99	26.72	40.81	74.00	33.19	Peak
6	9075.00	37.53	11.49	34.20	27.30	42.12	74.00	31.88	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. : 966 1# chamber Data no. : 62
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH1 2412TX
Antenna b

	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	1595.00	24.86	4.69	35.12	54.12	48.55	74.00	25.45	Peak
2	2412.00	27.60	6.64	34.64	88.33	87.93	74.00	-13.93	Peak
3	2785.00	27.89	8.04	36.69	44.20	43.44	74.00	30.56	Peak
4	4570.00	30.74	10.72	35.61	41.57	47.42	74.00	26.58	Peak
5	4824.00	31.28	11.84	35.66	30.25	37.71	74.00	36.29	Peak
6	7236.00	36.53	11.55	33.99	25.27	39.36	74.00	34.64	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.      : 966 1# chamber              Data no.  : 63
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11b  CH6 2437TX
                Antenna b
```

	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	1884.00	25.28	5.75	35.23	52.70	48.50	74.00	25.50	Peak
2	2437.00	27.60	6.67	34.85	91.69	91.11	74.00	-17.11	Peak
3	2836.00	27.93	8.28	37.01	43.66	42.86	74.00	31.14	Peak
4	4655.00	30.94	11.09	35.57	40.98	47.44	74.00	26.56	Peak
5	4874.00	31.37	12.07	35.76	30.32	38.00	74.00	36.00	Peak
6	7281.00	36.54	11.56	34.09	28.63	42.64	74.00	31.36	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.      : 966 1# chamber              Data no.  : 64
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11b  CH6 2437TX
                Antenna b
```

	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	1595.00	24.86	4.69	35.12	52.54	46.97	74.00	27.03	Peak
2	2437.00	27.60	6.67	34.85	93.59	93.01	74.00	-19.01	Peak
3	2785.00	27.89	8.04	36.69	45.01	44.25	74.00	29.75	Peak
4	4536.00	30.67	10.57	35.63	42.18	47.79	74.00	26.21	Peak
5	4874.00	31.37	12.07	35.76	30.57	38.25	74.00	35.75	Peak
6	7281.00	36.54	11.56	34.09	26.57	40.58	74.00	33.42	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.       : 966 1# chamber              Data no.  : 65
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       : Tony
EUT            : LED TV
Power          : AC 120V/60Hz
M/N            : WD55UT4490
Test Mode      : IEEE 802.11b  CH11 2462TX
                 Antenna b
```

	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	1595.00	24.86	4.69	35.12	53.30	47.73	74.00	26.27	Peak
2	2462.00	27.58	6.69	34.98	94.03	93.32	74.00	-19.32	Peak
3	2836.00	27.93	8.28	37.01	45.44	44.64	74.00	29.36	Peak
4	4570.00	30.74	10.72	35.61	41.48	47.33	74.00	26.67	Peak
5	4924.00	31.45	12.29	35.91	30.39	38.22	74.00	35.78	Peak
6	7386.00	36.57	11.59	34.23	29.66	43.59	74.00	30.41	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.       : 966 1# chamber              Data no.  : 66
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       : Tony
EUT            : LED TV
Power          : AC 120V/60Hz
M/N            : WD55UT4490
Test Mode      : IEEE 802.11b  CH11 2462TX
                 Antenna b
```

	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	1884.00	25.28	5.75	35.23	53.08	48.88	74.00	25.12	Peak
2	2462.00	27.58	6.69	34.98	98.39	97.68	74.00	-23.68	Peak
3	2785.00	27.89	8.04	36.69	45.43	44.67	74.00	29.33	Peak
4	4621.00	30.85	10.94	35.58	39.13	45.34	74.00	28.66	Peak
5	4924.00	31.45	12.29	35.91	31.58	39.41	74.00	34.59	Peak
6	7386.00	36.57	11.59	34.23	31.61	45.54	74.00	28.46	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. : 966 1# chamber Data no. : 67
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH1 2412TX
Antenna b

	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	1816.00	25.02	5.50	35.28	45.23	40.47	74.00	33.53	Peak
2	2412.00	27.60	6.64	34.64	86.08	85.68	74.00	-11.68	Peak
3	2734.00	27.88	7.81	36.43	43.66	42.92	74.00	31.08	Peak
4	4824.00	31.28	11.84	35.66	38.31	45.77	74.00	28.23	Peak
5	7236.00	36.53	11.55	33.99	27.19	41.28	74.00	32.72	Peak
6	13495.00	40.07	11.50	32.65	24.40	43.32	74.00	30.68	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. : 966 1# chamber Data no. : 68
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH1 2412TX
Antenna b

	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	1884.00	25.28	5.75	35.23	52.00	47.80	74.00	26.20	Peak
2	2412.00	27.60	6.64	34.64	85.04	84.64	74.00	-10.64	Peak
3	2836.00	27.93	8.28	37.01	46.35	45.55	74.00	28.45	Peak
4	4655.00	30.94	11.09	35.57	39.41	45.87	74.00	28.13	Peak
5	4824.00	31.28	11.84	35.66	36.77	44.23	74.00	29.77	Peak
6	7236.00	36.53	11.55	33.99	30.03	44.12	74.00	29.88	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. : 966 1# chamber Data no. : 69
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH6 2437TX
Antenna b

	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	1595.00	24.86	4.69	35.12	52.57	47.00	74.00	27.00	Peak
2	2437.00	27.60	6.67	34.85	86.45	85.87	74.00	-11.87	Peak
3	2836.00	27.93	8.28	37.01	47.79	46.99	74.00	27.01	Peak
4	4874.00	31.37	12.07	35.76	39.18	46.86	74.00	27.14	Peak
5	5930.00	32.63	12.10	35.68	33.06	42.11	74.00	31.89	Peak
6	7281.00	36.54	11.56	34.09	26.88	40.89	74.00	33.11	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. : 966 1# chamber Data no. : 70
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH6 2437TX
Antenna b

	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	1884.00	25.28	5.75	35.23	51.98	47.78	74.00	26.22	Peak
2	2437.00	27.60	6.67	34.85	89.49	88.91	74.00	-14.91	Peak
3	2734.00	27.88	7.81	36.43	44.92	44.18	74.00	29.82	Peak
4	4672.00	30.99	11.17	35.57	38.54	45.13	74.00	28.87	Peak
5	4874.00	31.37	12.07	35.76	30.32	38.00	74.00	36.00	Peak
6	7281.00	36.54	11.56	34.09	29.17	43.18	74.00	30.82	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.      : 966 1# chamber              Data no.  : 71
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11g  CH11 2462TX
                Antenna b
```

	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	1884.00	25.28	5.75	35.23	52.31	48.11	74.00	25.89	Peak
2	2462.00	27.58	6.69	34.98	90.55	89.84	74.00	-15.84	Peak
3	2785.00	27.89	8.04	36.69	46.87	46.11	74.00	27.89	Peak
4	4655.00	30.94	11.09	35.57	42.55	49.01	74.00	24.99	Peak
5	4924.00	31.45	12.29	35.91	31.40	39.23	74.00	34.77	Peak
6	7386.00	36.57	11.59	34.23	27.60	41.53	74.00	32.47	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.      : 966 1# chamber              Data no.  : 72
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11g  CH11 2462TX
                Antenna b
```

	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	1595.00	24.86	4.69	35.12	53.89	48.32	74.00	25.68	Peak
2	2462.00	27.58	6.69	34.98	87.69	86.98	74.00	-12.98	Peak
3	2785.00	27.89	8.04	36.69	46.37	45.61	74.00	28.39	Peak
4	4924.00	31.45	12.29	35.91	34.19	42.02	74.00	31.98	Peak
5	5930.00	32.63	12.10	35.68	33.58	42.63	74.00	31.37	Peak
6	7386.00	36.57	11.59	34.23	27.31	41.24	74.00	32.76	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.
```

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. : 966 1# chamber Data no. : 73
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH1 2412TX
Antenna a

	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	2379.04	27.64	6.60	34.59	36.30	35.95	74.00	38.05	Peak
2	2390.00	27.64	6.62	34.62	39.36	39.00	74.00	35.00	Peak
3	2400.00	27.61	6.62	34.64	48.98	48.57	54.00	5.43	Average
4	2400.00	27.61	6.62	34.64	58.98	58.57	74.00	15.43	Peak
5	2410.50	27.60	6.64	34.64	91.91	91.51	74.00	-17.51	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. : 966 1# chamber Data no. : 74
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH1 2412TX
Antenna a

	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	2375.40	27.64	6.60	34.59	36.97	36.62	74.00	37.38	Peak
2	2390.00	27.64	6.62	34.62	40.71	40.35	74.00	33.65	Peak
3	2400.00	27.61	6.62	34.64	48.92	48.51	54.00	5.49	Average
4	2400.00	27.61	6.62	34.64	57.92	57.51	74.00	16.49	Peak
5	2410.50	27.60	6.64	34.64	90.53	90.13	74.00	-16.13	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.       : 966 1# chamber              Data no.  : 75
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       : Tony
EUT            : LED TV
Power          : AC 120V/60Hz
M/N            : WD55UT4490
Test Mode      : IEEE 802.11b CH11 2462TX
                 Antenna a
```

	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	89.16	88.45	74.00	-14.45	Peak
2	2483.50	27.58	6.71	35.11	36.32	35.50	74.00	38.50	Peak
3	2484.00	27.58	6.71	35.11	42.88	42.06	74.00	31.94	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.       : 966 1# chamber              Data no.  : 76
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       : Tony
EUT            : LED TV
Power          : AC 120V/60Hz
M/N            : WD55UT4490
Test Mode      : IEEE 802.11b CH11 2462TX
                 Antenna a
```

	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	2464.10	27.58	6.69	34.98	88.44	87.73	74.00	-13.73	Peak
2	2483.50	27.58	6.71	35.11	40.20	39.38	74.00	34.62	Peak
3	2484.00	27.58	6.71	35.11	46.46	45.64	74.00	28.36	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. : 966 1# chamber Data no. : 77
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH1 2412TX
Antenna a

	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	2373.45	27.67	6.60	34.59	35.70	35.38	74.00	38.62	Peak
2	2390.00	27.64	6.62	34.62	45.18	44.82	74.00	29.18	Peak
3	2400.00	27.61	6.62	34.64	48.34	47.93	54.00	6.07	Average
4	2400.00	27.61	6.62	34.64	57.34	56.93	74.00	17.07	Peak
5	2411.80	27.60	6.64	34.64	83.71	83.31	74.00	-9.31	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. : 966 1# chamber Data no. : 78
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH1 2412TX
Antenna a

	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	2373.84	27.64	6.60	34.59	35.71	35.36	74.00	38.64	Peak
2	2390.00	27.64	6.62	34.62	41.47	41.11	74.00	32.89	Peak
3	2400.00	27.61	6.62	34.64	47.45	47.04	54.00	6.96	Average
4	2400.00	27.61	6.62	34.64	53.45	53.04	74.00	20.96	Peak
5	2411.80	27.60	6.64	34.64	81.46	81.06	74.00	-7.06	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.       : 966 1# chamber              Data no.  : 79
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       : Tony
EUT            : LED TV
Power          : AC 120V/60Hz
M/N            : WD55UT4490
Test Mode      : IEEE 802.11g CH11 2462TX
                 Antenna a
```

	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	2469.75	27.58	6.69	34.98	87.24	86.53	74.00	-12.53	Peak
2	2483.50	27.58	6.71	35.11	45.13	44.31	54.00	9.69	Average
3	2483.50	27.58	6.71	35.11	53.13	52.31	74.00	21.69	Peak
4	2486.60	27.58	6.71	35.11	47.95	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.       : 966 1# chamber              Data no.  : 80
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       : Tony
EUT            : LED TV
Power          : AC 120V/60Hz
M/N            : WD55UT4490
Test Mode      : IEEE 802.11g CH11 2462TX
                 Antenna a
```

	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	2466.40	27.58	6.69	34.98	89.86	89.15	74.00	-15.15	Peak
2	2483.50	27.58	6.71	35.11	46.10	45.28	54.00	8.72	Average
3	2483.50	27.58	6.71	35.11	53.10	52.28	74.00	21.72	Peak
4	2484.10	27.58	6.71	35.11	52.47	51.65	74.00	22.35	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. : 966 1# chamber Data no. : 81
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH1 2412TX
Antenna a+b

	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	2390.00	27.64	6.62	34.62	46.50	46.14	74.00	27.86	Peak
2	2400.00	27.61	6.62	34.64	49.52	49.11	54.00	4.89	Average
3	2400.00	27.61	6.62	34.64	59.52	59.11	74.00	14.89	Peak
4	2418.95	27.60	6.64	34.74	86.74	86.24	74.00	-12.24	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. : 966 1# chamber Data no. : 82
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH1 2412TX
Antenna a+b

	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	2390.00	27.64	6.62	34.62	48.49	48.13	74.00	25.87	Peak
2	2400.00	27.61	6.62	34.64	49.12	48.71	54.00	5.29	Average
3	2400.00	27.61	6.62	34.64	55.12	54.71	74.00	19.29	Peak
4	2416.35	27.60	6.64	34.64	82.00	81.60	74.00	-7.60	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. : 966 1# chamber Data no. : 83
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH11 2462TX
Antenna a+b

	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	2466.40	27.58	6.69	34.98	88.43	87.72	74.00	-13.72	Peak
2	2483.50	27.58	6.71	35.11	46.18	45.36	54.00	8.64	Average
3	2483.50	27.58	6.71	35.11	56.18	55.36	74.00	18.64	Peak
4	2484.10	27.58	6.71	35.11	45.19	44.37	54.00	9.63	Average
5	2484.10	27.58	6.71	35.11	56.19	55.37	74.00	18.63	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. : 966 1# chamber Data no. : 84
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT20 CH11 2462TX
Antenna a+b

	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	2456.40	27.59	6.69	34.98	94.64	93.94	74.00	-19.94	Peak
2	2483.50	27.58	6.71	35.11	49.53	48.71	54.00	5.29	Average
3	2483.50	27.58	6.71	35.11	59.53	58.71	74.00	15.29	Peak
4	2484.10	27.58	6.71	35.11	49.37	48.55	54.00	5.45	Average
5	2484.10	27.58	6.71	35.11	58.37	57.55	74.00	16.45	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. : 966 1# chamber Data no. : 85
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT40 CH3 2422TX
Antenna a+b

	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	2386.45	27.64	6.62	34.62	46.56	46.20	54.00	7.80	Average
2	2386.45	27.64	6.62	34.62	54.56	54.20	74.00	19.80	Peak
3	2390.00	27.64	6.62	34.62	47.86	47.50	54.00	6.50	Average
4	2390.00	27.64	6.62	34.62	53.86	53.50	74.00	20.50	Peak
5	2400.00	27.61	6.62	34.64	50.37	49.96	54.00	4.04	Average
6	2400.00	27.61	6.62	34.64	62.37	61.96	74.00	12.04	Peak
7	2426.36	27.60	6.66	34.74	90.20	89.72	74.00	-15.72	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. : 966 1# chamber Data no. : 86
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11n HT40 CH3 2422TX
Antenna a+b

	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	2386.45	27.64	6.62	34.62	47.54	47.18	54.00	6.82	Average
2	2386.45	27.64	6.62	34.62	56.54	56.18	74.00	17.82	Peak
3	2390.00	27.64	6.62	34.62	55.73	55.37	74.00	18.63	Peak
4	2400.00	27.61	6.62	34.64	49.97	49.56	54.00	4.44	Average
5	2400.00	27.61	6.62	34.64	47.97	47.56	54.00	6.44	Average
6	2400.00	27.61	6.62	34.64	61.97	61.56	74.00	12.44	Peak
7	2426.36	27.60	6.66	34.74	92.33	91.85	74.00	-17.85	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.      : 966 1# chamber              Data no.  : 87
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11n HT40 CH9 2452TX
                Antenna a+b
```

	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	2456.40	27.59	6.69	34.98	91.59	90.89	74.00	-16.89	Peak
2	2483.50	27.58	6.71	35.11	49.41	48.59	54.00	5.41	Average
3	2483.50	27.58	6.71	35.11	66.41	65.59	74.00	8.41	Peak
4	2487.40	27.58	6.71	35.11	48.75	47.93	54.00	6.07	Average
5	2487.40	27.58	6.71	35.11	66.75	65.93	74.00	8.07	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.      : 966 1# chamber              Data no.  : 88
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      : Tony
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WD55UT4490
Test Mode     : IEEE 802.11n HT40 CH9 2452TX
                Antenna a+b
```

	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	2456.40	27.59	6.69	34.98	91.64	90.94	74.00	-16.94	Peak
2	2483.50	27.58	6.71	35.11	45.78	44.96	54.00	9.04	Average
3	2483.50	27.58	6.71	35.11	58.78	57.96	74.00	16.04	Peak
4	2490.10	27.58	6.73	35.24	44.37	43.44	54.00	10.56	Average
5	2490.10	27.58	6.73	35.24	61.37	60.44	74.00	13.56	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. : 966 1# chamber Data no. : 89
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH1 2412TX
Antenna b

	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	2373.06	27.67	6.60	34.59	45.46	45.14	74.00	28.86	Peak
2	2390.00	27.64	6.62	34.62	46.19	45.83	74.00	28.17	Peak
3	2400.00	27.61	6.62	34.64	49.04	48.63	54.00	5.37	Average
4	2400.00	27.61	6.62	34.64	58.04	57.63	74.00	16.37	Peak
5	2410.50	27.60	6.64	34.64	90.76	90.36	74.00	-16.36	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. : 966 1# chamber Data no. : 90
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH1 2412TX
Antenna b

	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	2376.05	27.64	6.60	34.59	42.51	42.16	74.00	31.84	Peak
2	2390.00	27.64	6.62	34.62	47.73	47.37	74.00	26.63	Peak
3	2400.00	27.61	6.62	34.64	48.29	47.88	54.00	6.12	Average
4	2400.00	27.61	6.62	34.64	61.29	60.88	74.00	13.12	Peak
5	2410.50	27.60	6.64	34.64	92.20	91.80	74.00	-17.80	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. : 966 1# chamber Data no. : 91
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH11 2462TX
Antenna b

	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	2460.50	27.58	6.69	34.98	98.49	97.78	74.00	-23.78	Peak
2	2483.50	27.58	6.71	35.11	44.39	43.57	74.00	30.43	Peak
3	2486.90	27.58	6.71	35.11	45.45	44.63	74.00	29.37	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. : 966 1# chamber Data no. : 92
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11b CH11 2462TX
Antenna b

	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	2460.50	27.58	6.69	34.98	96.95	96.24	74.00	-22.24	Peak
2	2483.50	27.58	6.71	35.11	44.60	43.78	74.00	30.22	Peak
3	2488.25	27.58	6.73	35.11	49.01	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. : 966 1# chamber Data no. : 93
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH1 2412TX
Antenna b

	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	2370.85	27.67	6.60	34.59	42.25	41.93	74.00	32.07	Peak
2	2390.00	27.64	6.62	34.62	45.65	45.29	54.00	8.71	Average
3	2390.00	27.64	6.62	34.62	53.65	53.29	74.00	20.71	Peak
4	2400.00	27.61	6.62	34.64	49.22	48.81	54.00	5.19	Average
5	2400.00	27.61	6.62	34.64	62.22	61.81	74.00	12.19	Peak
6	2406.34	27.61	6.64	34.64	86.35	85.96	74.00	-11.96	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. : 966 1# chamber Data no. : 94
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH1 2412TX
Antenna b

	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	2350.05	27.70	6.56	34.57	45.33	45.02	74.00	28.98	Peak
2	2390.00	27.64	6.62	34.62	47.60	47.24	74.00	26.76	Peak
3	2400.00	27.61	6.62	34.64	47.01	46.60	54.00	7.40	Average
4	2400.00	27.61	6.62	34.64	57.01	56.60	74.00	17.40	Peak
5	2411.80	27.60	6.64	34.64	84.23	83.83	74.00	-9.83	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. : 966 1# chamber Data no. : 95
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH11 2462TX
Antenna b

	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	2456.40	27.59	6.69	34.98	87.83	87.13	74.00	-13.13	Peak
2	2483.50	27.58	6.71	35.11	44.23	43.41	74.00	30.59	Peak
3	2483.90	27.58	6.71	35.11	46.51	45.69	74.00	28.31	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. : 966 1# chamber Data no. : 96
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 : Tony
EUT : LED TV
Power : AC 120V/60Hz
M/N : WD55UT4490
Test Mode : IEEE 802.11g CH11 2462TX
Antenna b

	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	2456.40	27.59	6.69	34.98	92.00	91.30	74.00	-17.30	Peak
2	2483.50	27.58	6.71	35.11	45.63	44.81	54.00	9.19	Average
3	2483.50	27.58	6.71	35.11	54.63	53.81	74.00	20.19	Peak
4	2484.10	27.58	6.71	35.11	45.02	44.20	54.00	9.80	Average
5	2484.10	27.58	6.71	35.11	55.02	54.20	74.00	19.80	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) ≥ 3 x 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 andvideo 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.

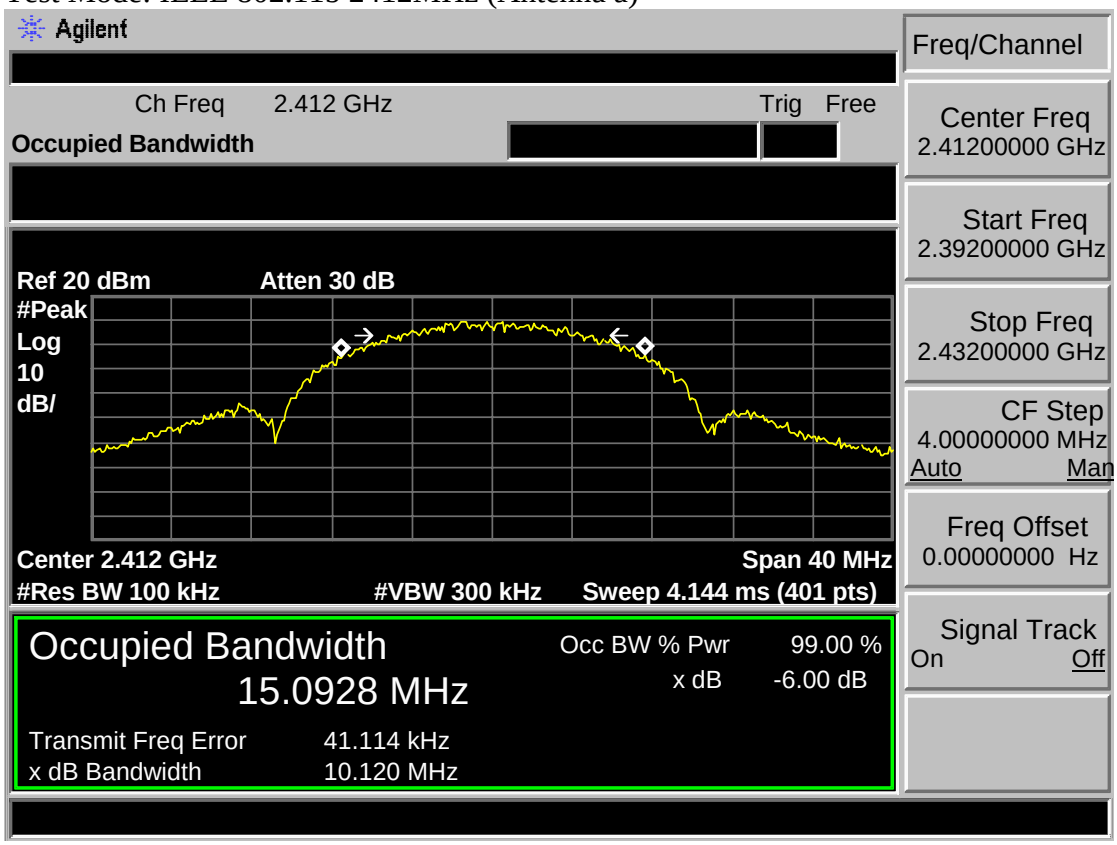
(11). The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

6.4 Test Result

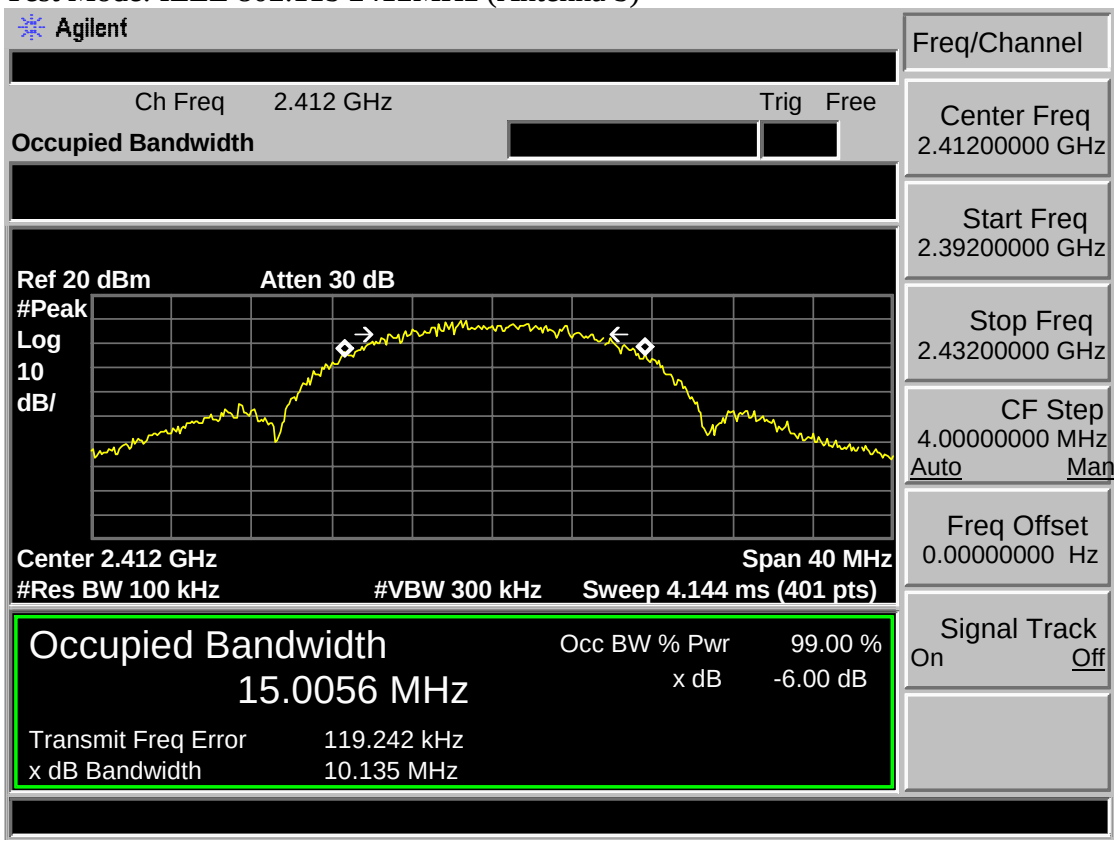
EUT: LED TV				
M/N: WD55UT4490				
Test date: 2016-09-30		Tested by: Tony.Tang		Test site: RF Site
Antenna a				
Test Mode	CH	6dB bandwidth（MHz）	20dB bandwidth（MHz）	Limit (KHz)
IEEE 802.11 b	CH1	10.120	17.712	>500
	CH6	10.157	17.715	>500
	CH11	9.527	17.700	>500
IEEE 802.11 g	CH1	16.570	19.123	>500
	CH6	16.643	19.350	>500
	CH11	16.586	19.454	>500
IEEE 802.11 n HT 20	CH1	16.596	19.442	>500
	CH6	16.584	19.064	>500
	CH11	16.521	19.193	>500
IEEE 802.11 n HT 40	CH3	36.605	42.667	>500
	CH6	36.606	42.648	>500
	CH9	36.574	43.073	>500
Antenna b				
Test Mode	CH	6dB bandwidth（MHz）	20dB bandwidth（MHz）	Limit (KHz)
IEEE 802.11 b	CH1	10.135	17.468	>500
	CH6	9.332	17.679	>500
	CH11	10.152	17.555	>500
IEEE 802.11 g	CH1	16.619	19.177	>500
	CH6	16.593	19.275	>500
	CH11	16.612	19.334	>500
IEEE 802.11 n HT 20	CH1	16.572	19.221	>500
	CH6	16.625	19.163	>500
	CH11	16.584	19.251	>500
IEEE 802.11 n HT 40	CH3	36.606	42.782	>500
	CH6	36.554	42.937	>500
	CH9	36.548	42.596	>500
Conclusion：PASS				

6.5 6dB Test Data

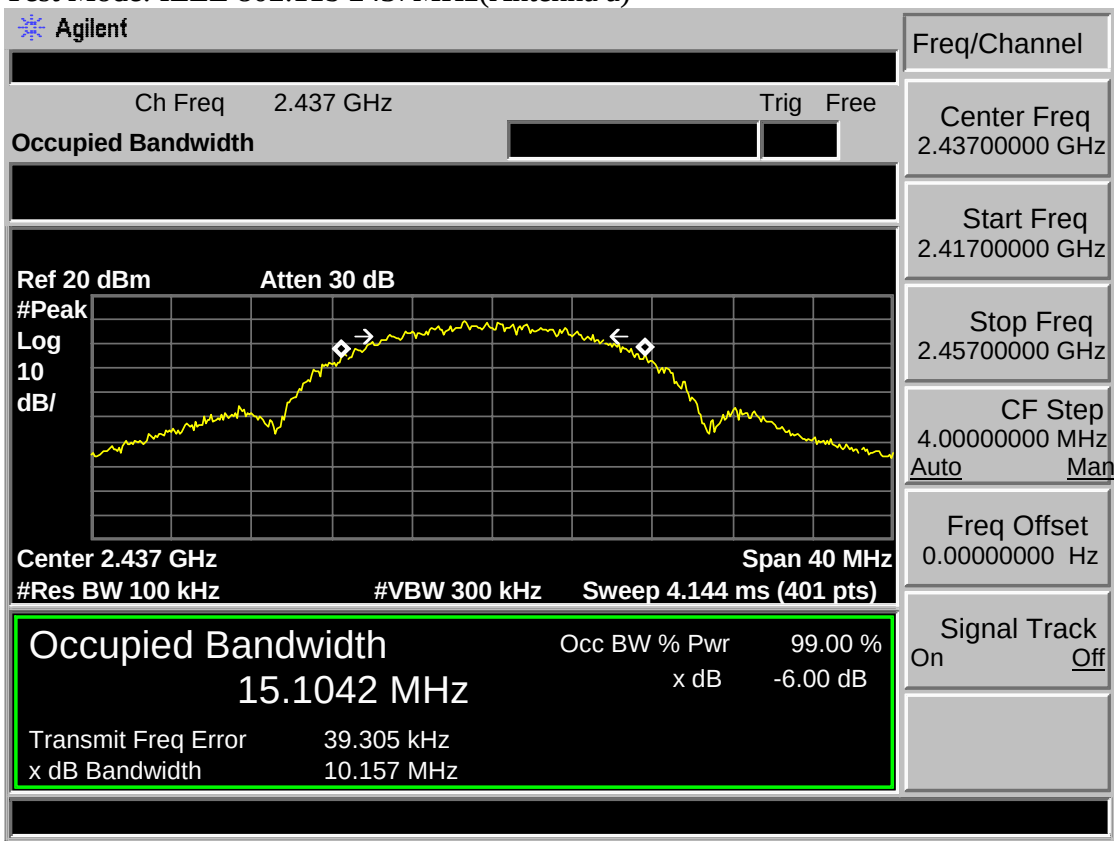
Test Mode: IEEE 802.11b 2412MHz (Antenna a)



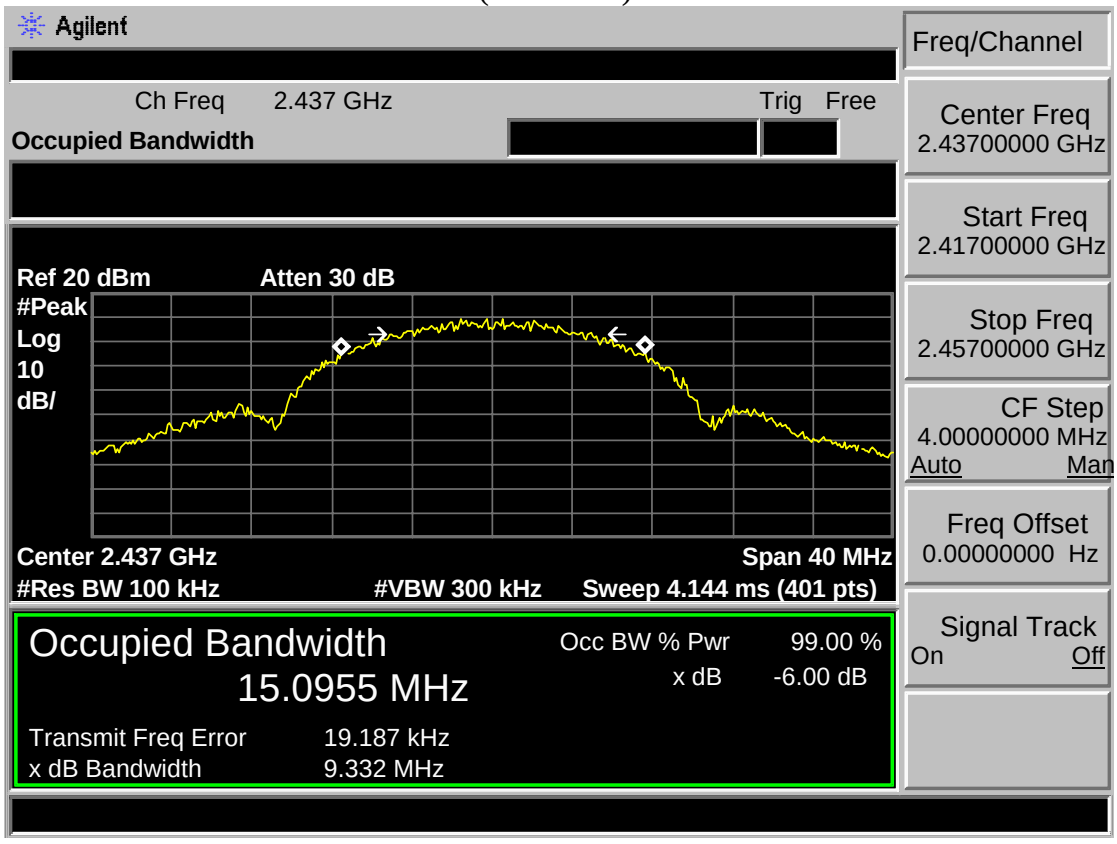
Test Mode: IEEE 802.11b 2412MHz (Antenna b)



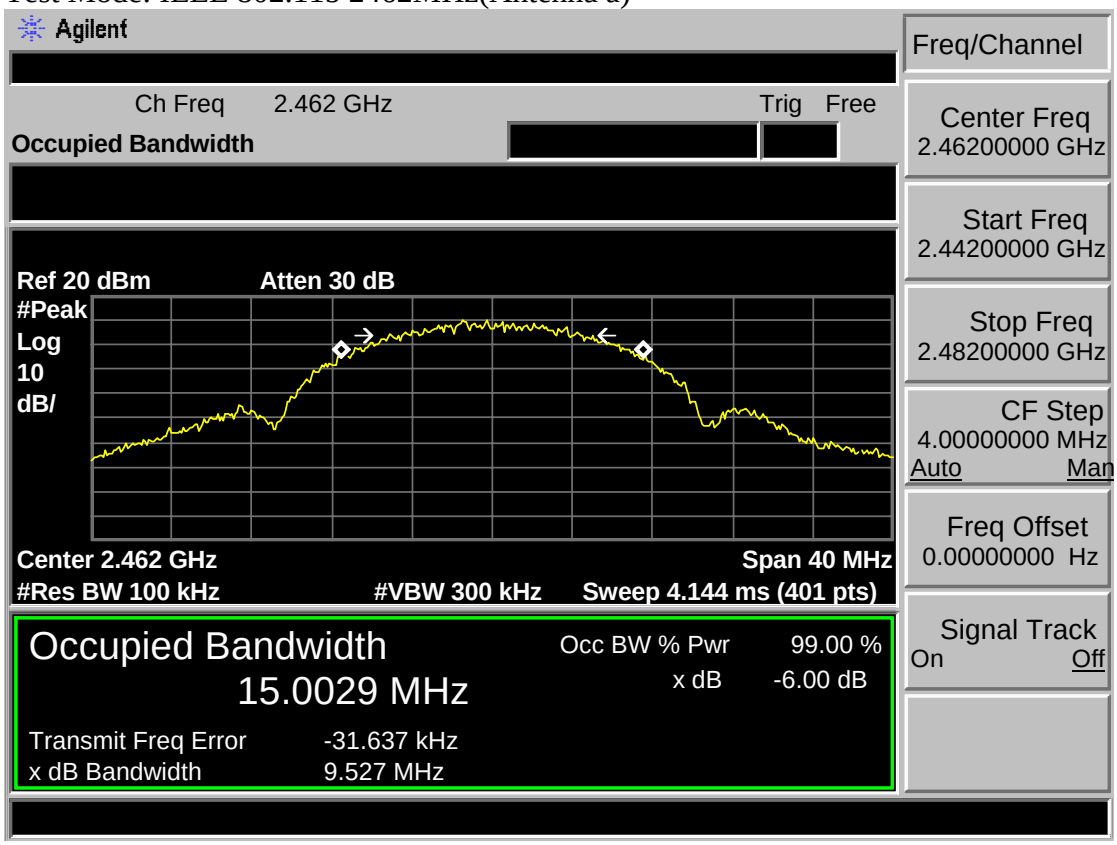
Test Mode: IEEE 802.11b 2437MHz(Antenna a)



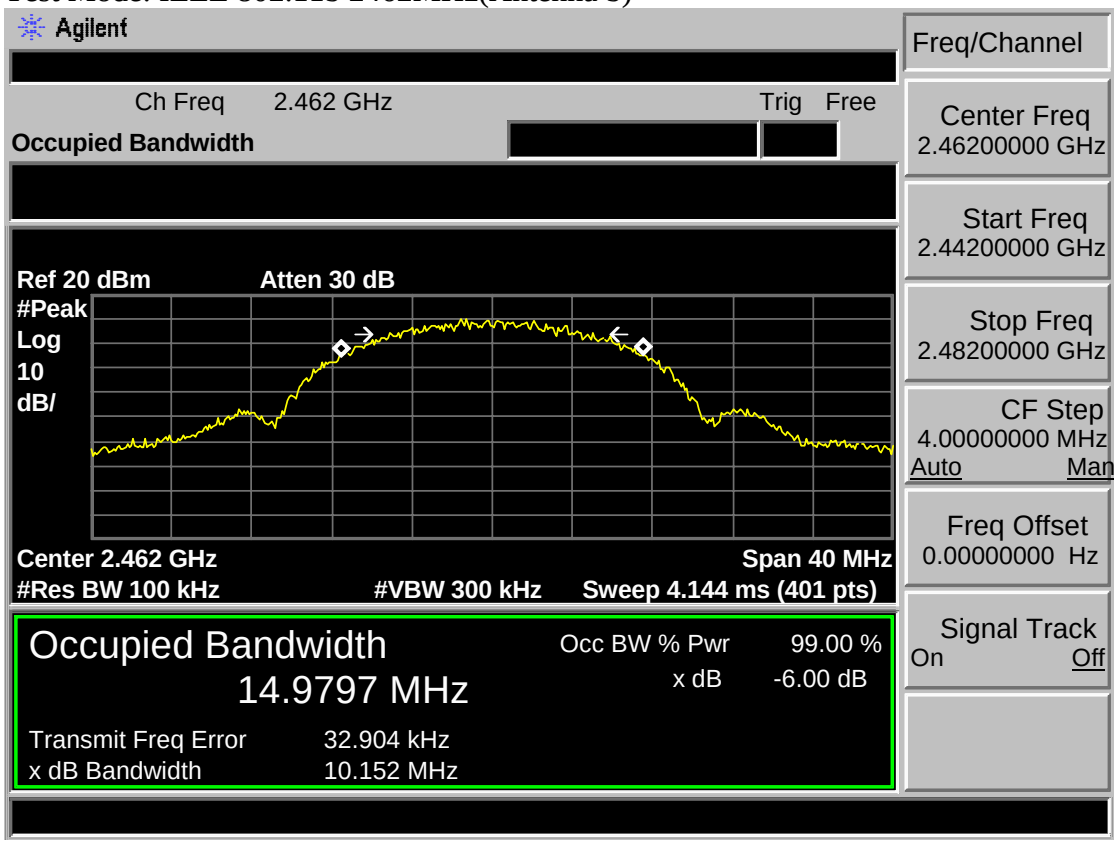
Test Mode: IEEE 802.11b 2437MHz(Antenna b)



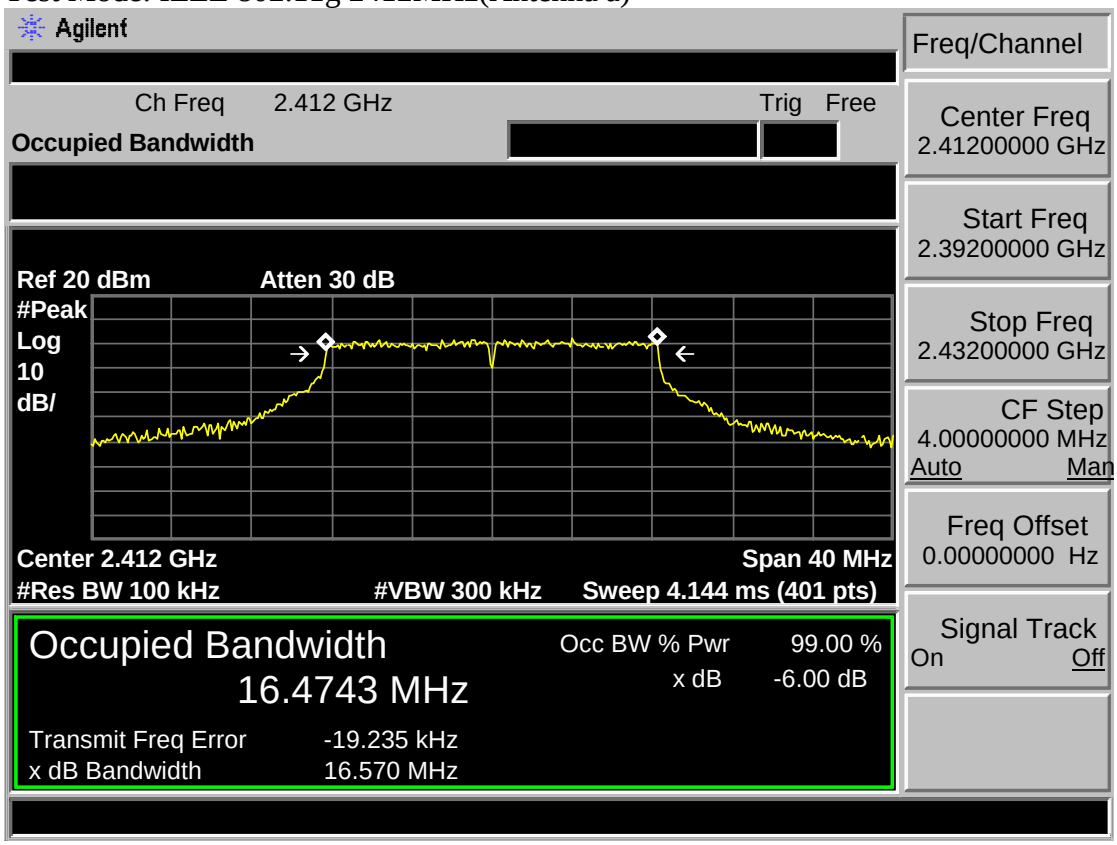
Test Mode: IEEE 802.11b 2462MHz(Antenna a)



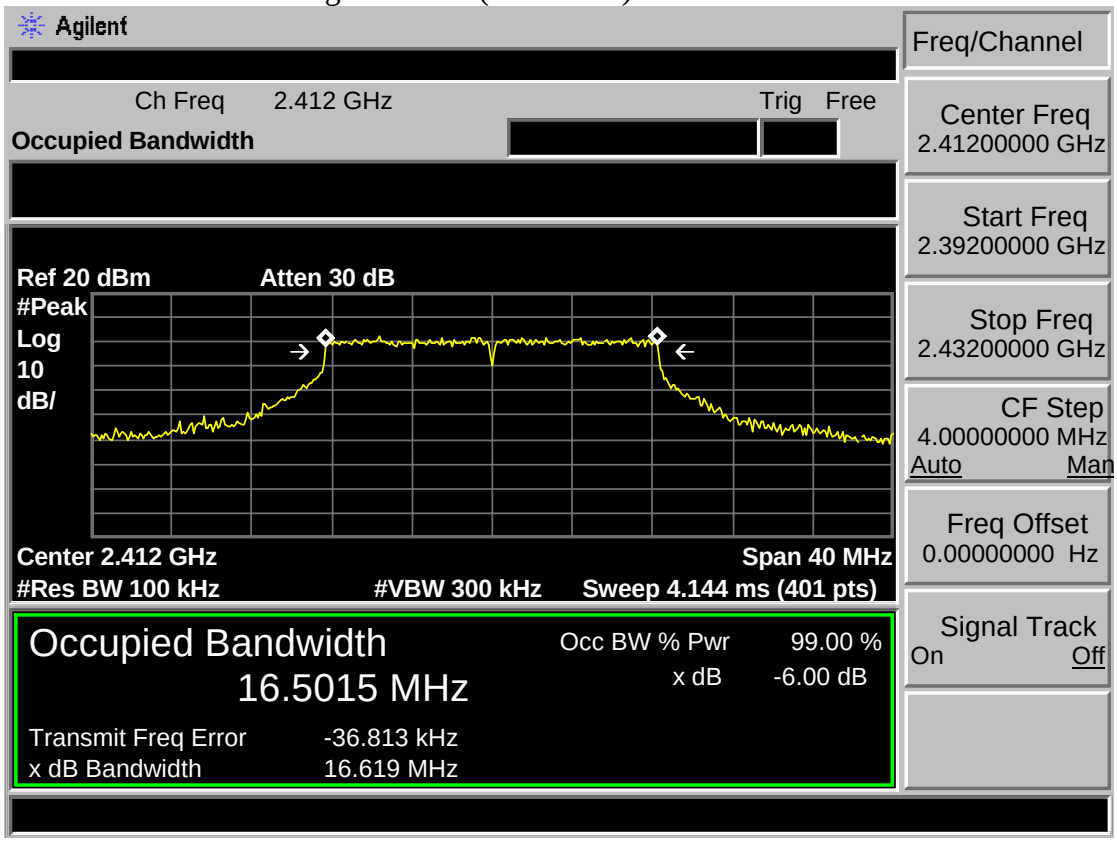
Test Mode: IEEE 802.11b 2462MHz(Antenna b)



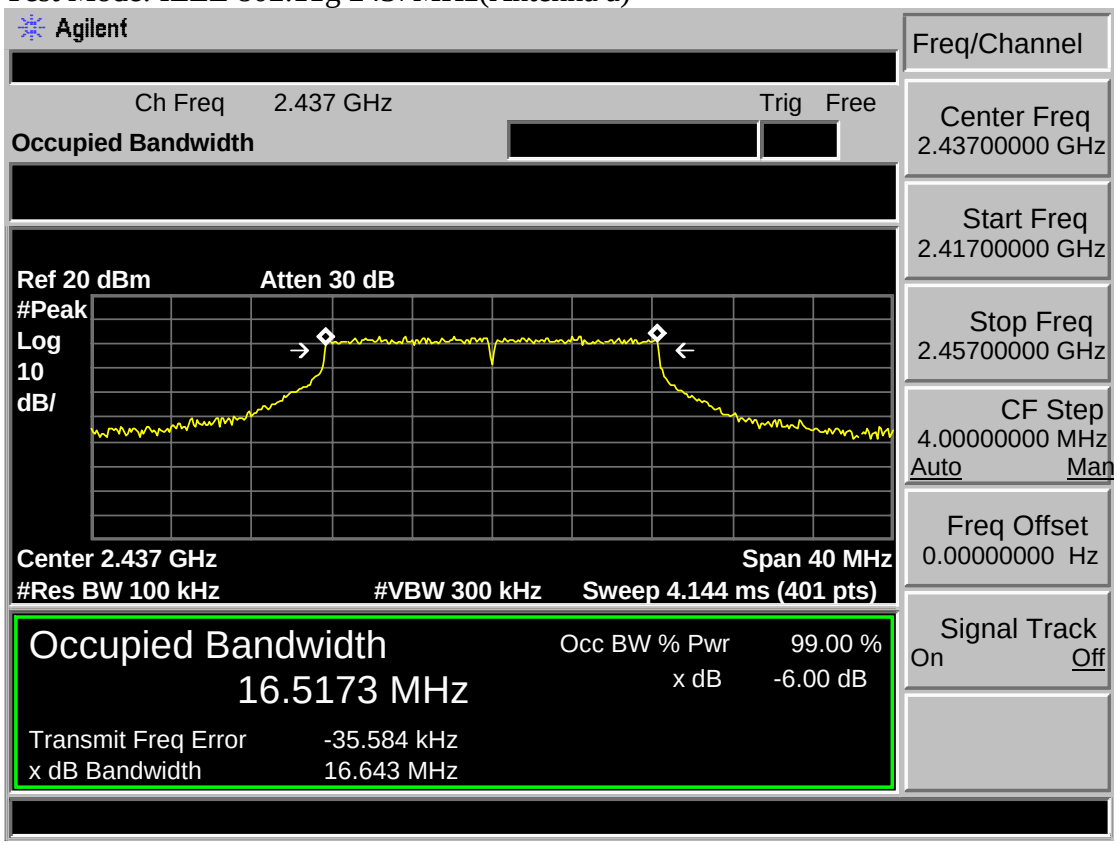
Test Mode: IEEE 802.11g 2412MHz(Antenna a)



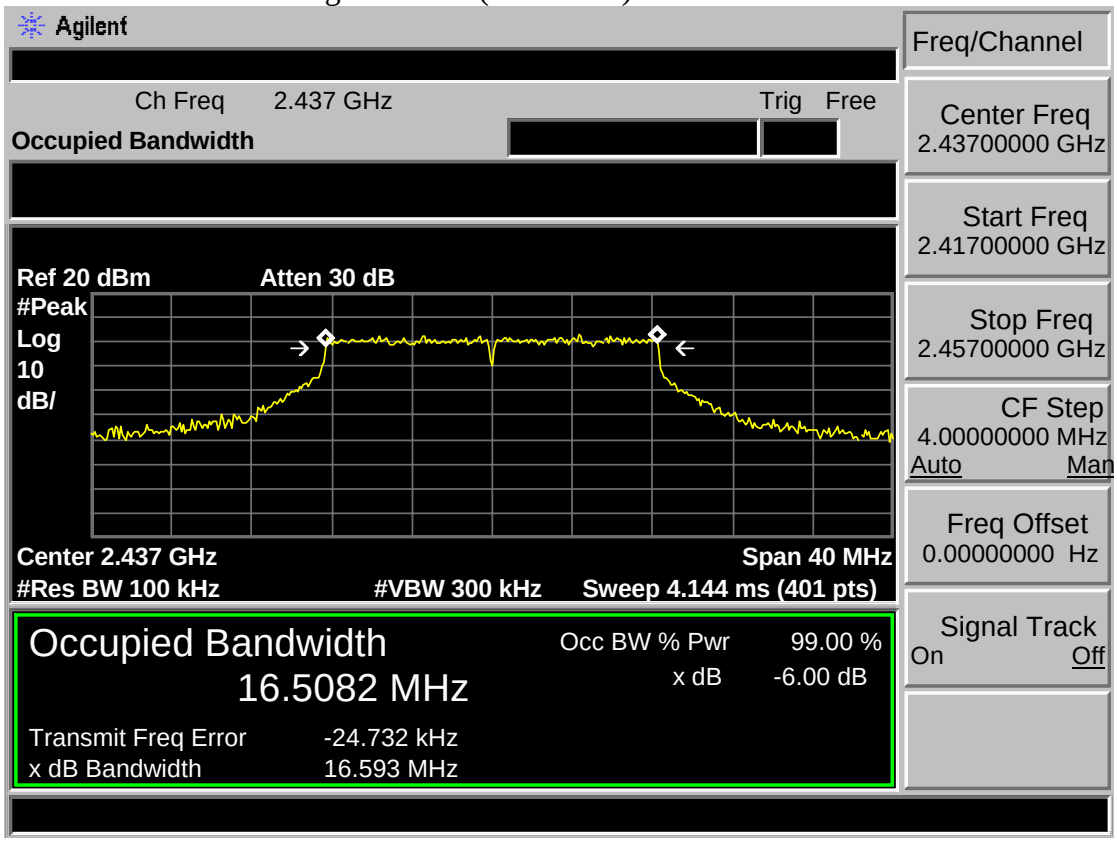
Test Mode: IEEE 802.11g 2412MHz(Antenna b)



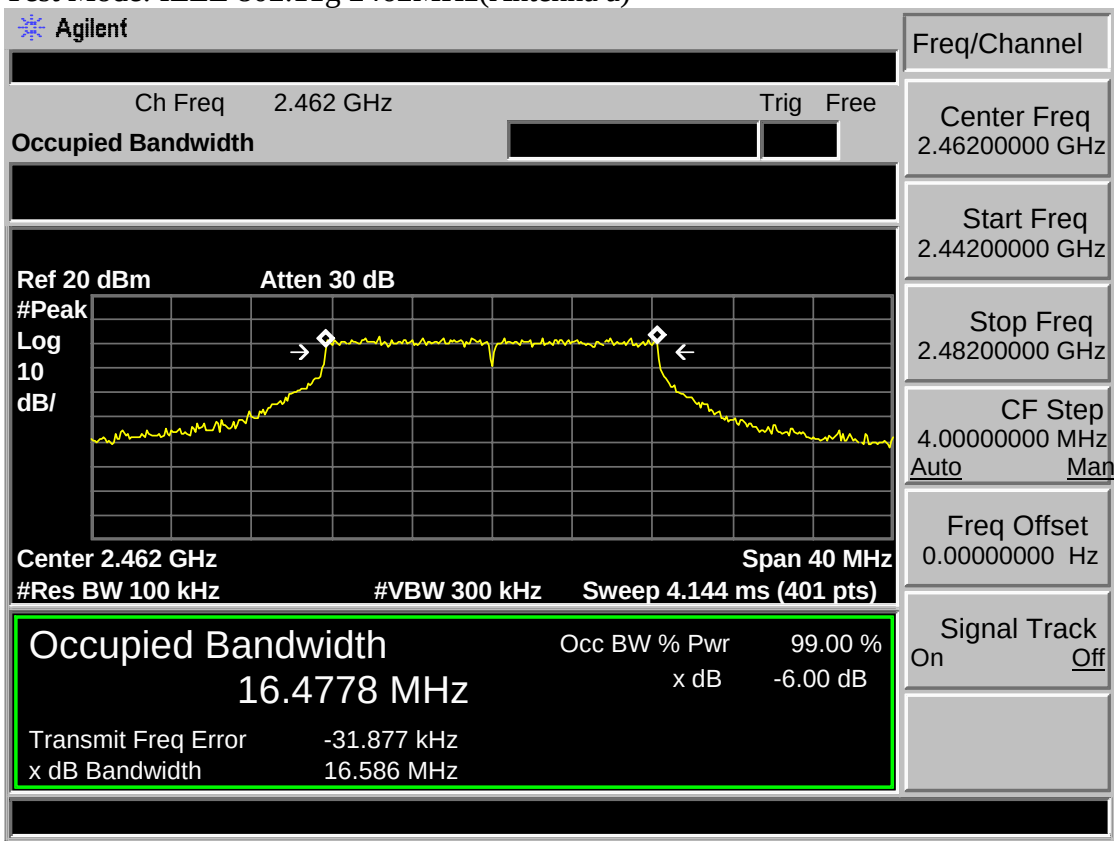
Test Mode: IEEE 802.11g 2437MHz(Antenna a)



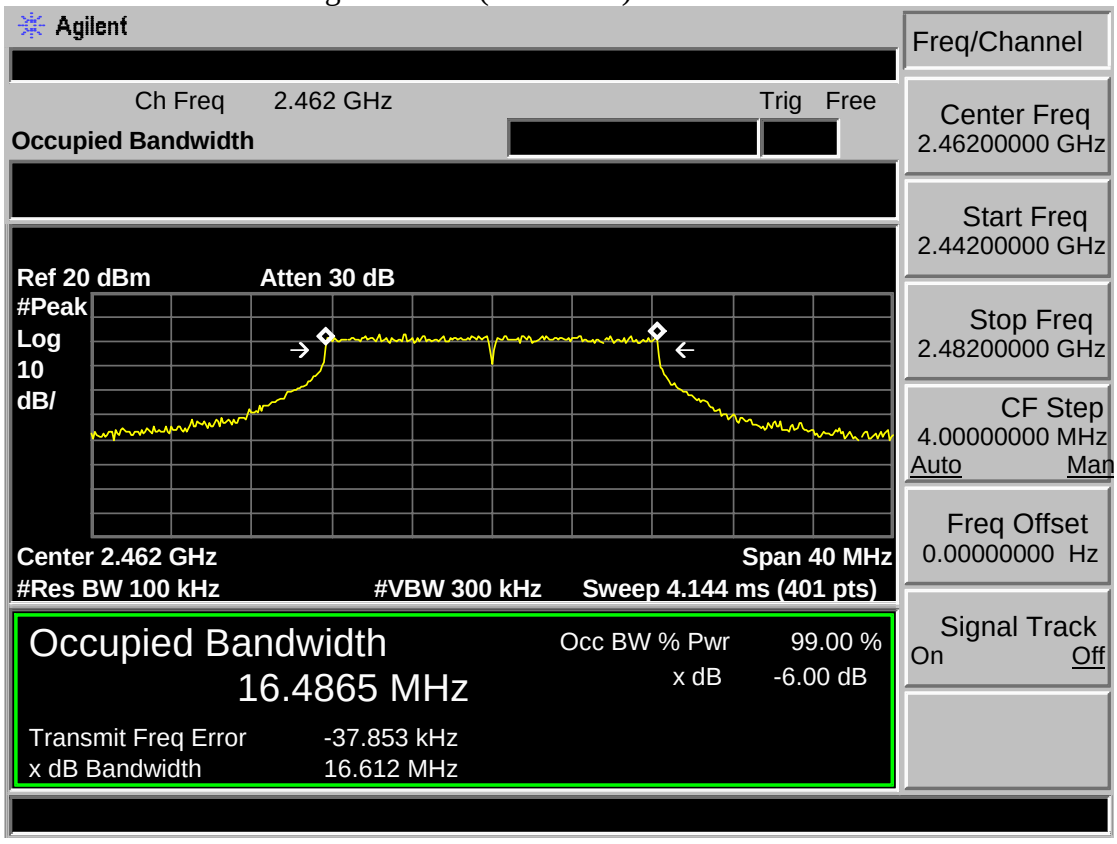
Test Mode: IEEE 802.11g 2437MHz(Antenna b)



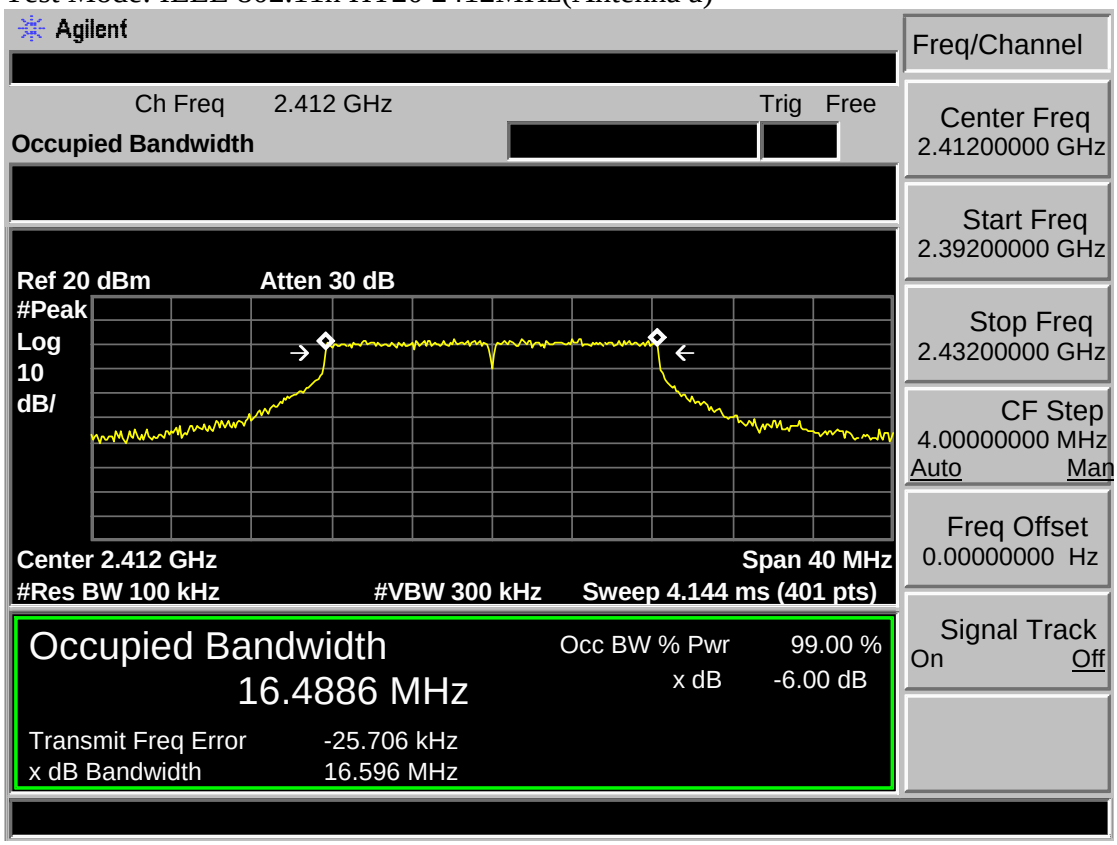
Test Mode: IEEE 802.11g 2462MHz(Antenna a)



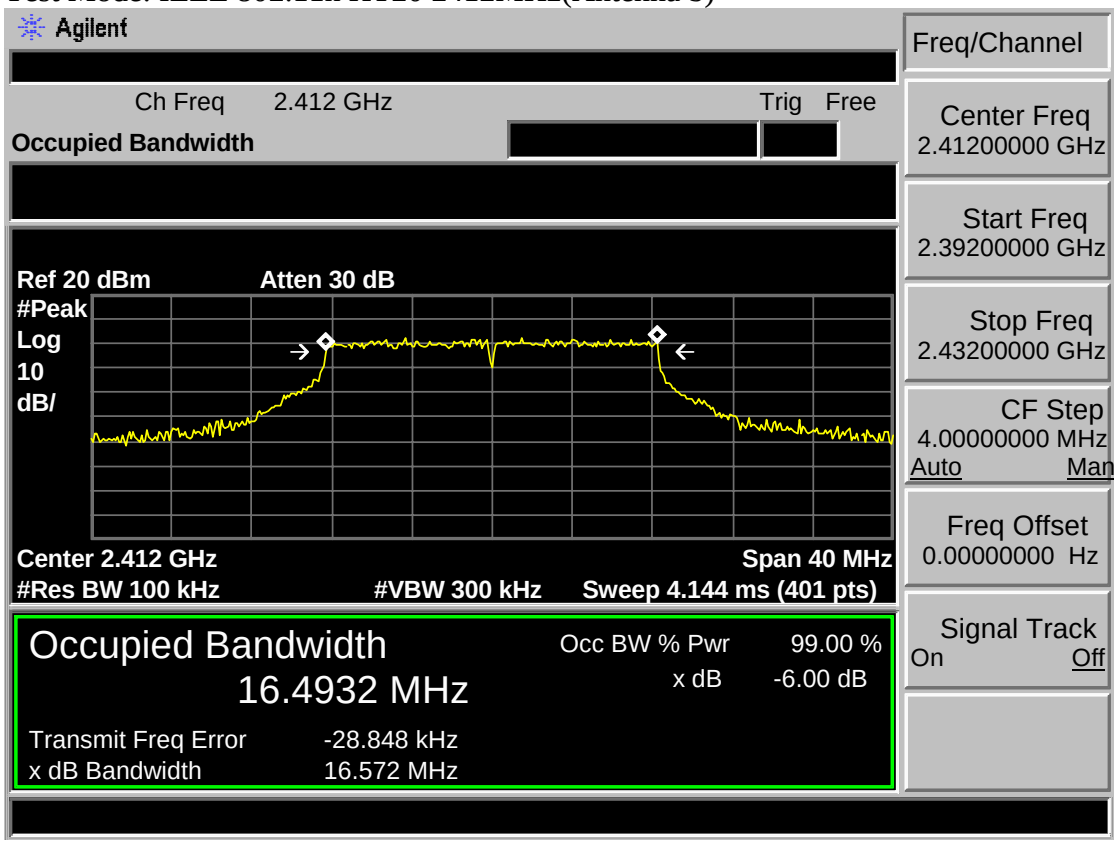
Test Mode: IEEE 802.11g 2462MHz(Antenna b)



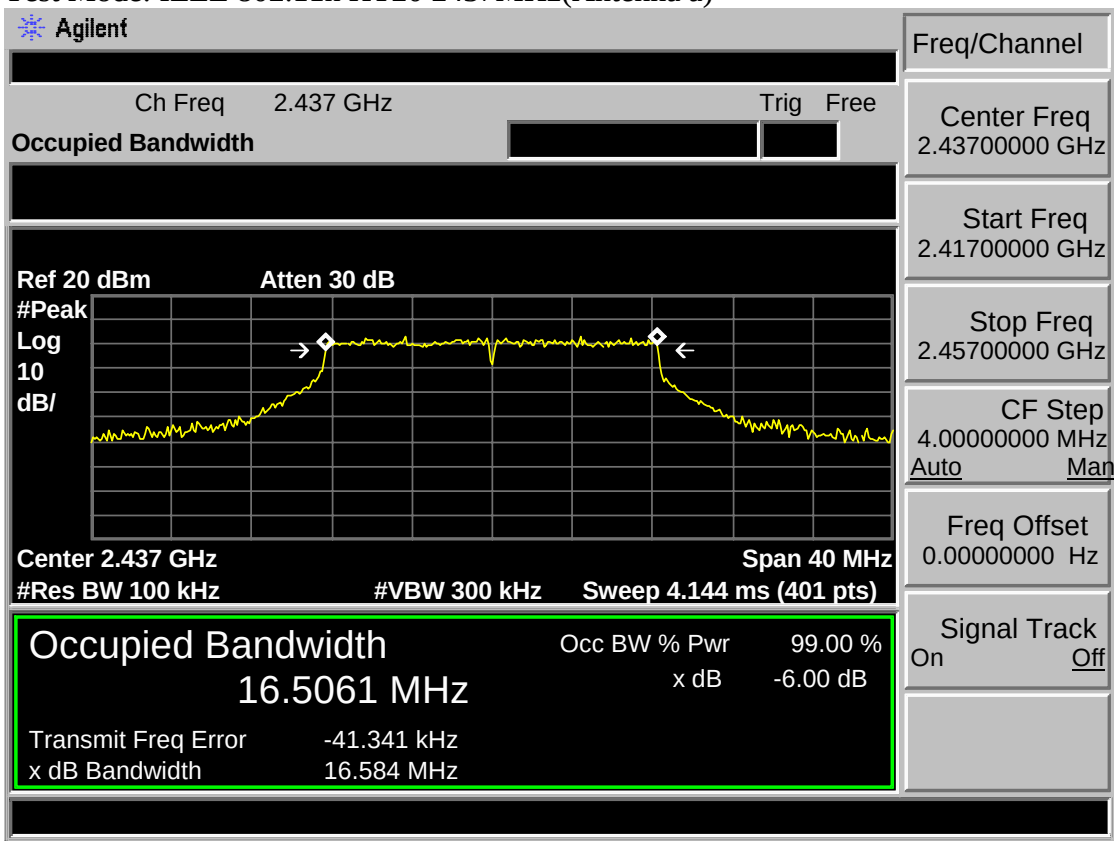
Test Mode: IEEE 802.11n HT20 2412MHz(Antenna a)



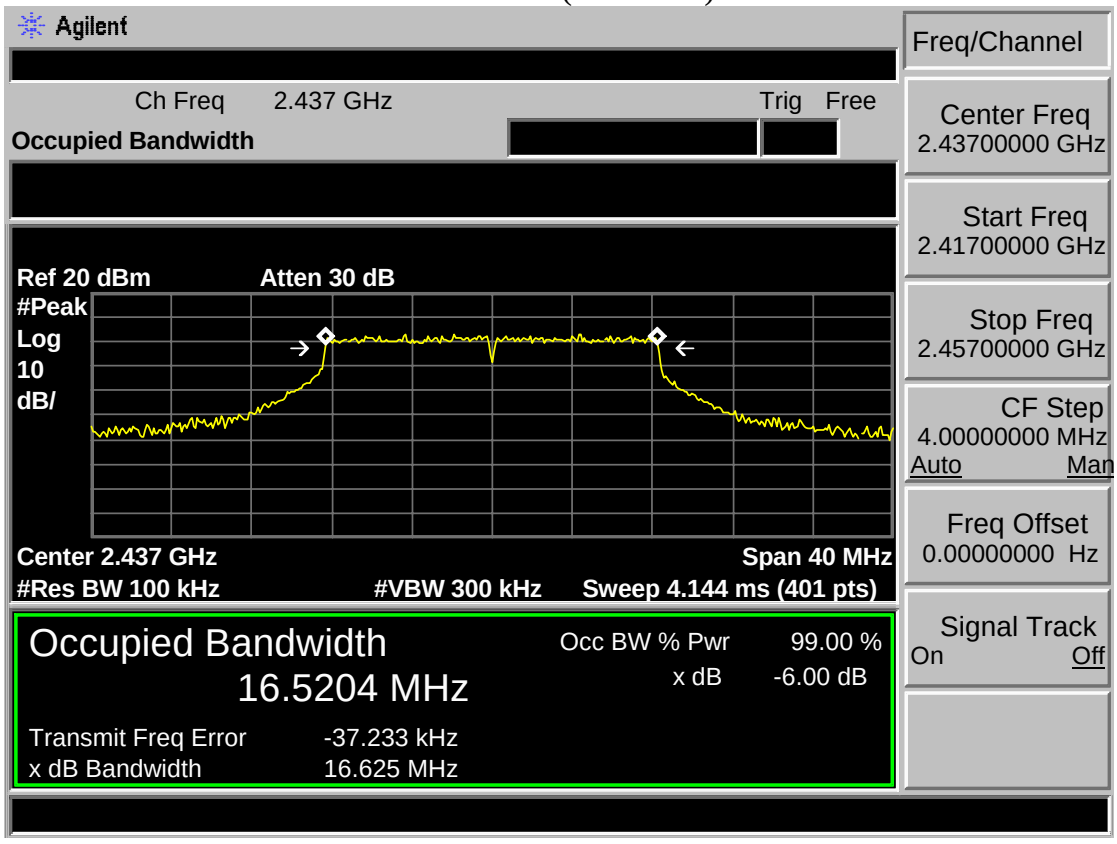
Test Mode: IEEE 802.11n HT20 2412MHz(Antenna b)



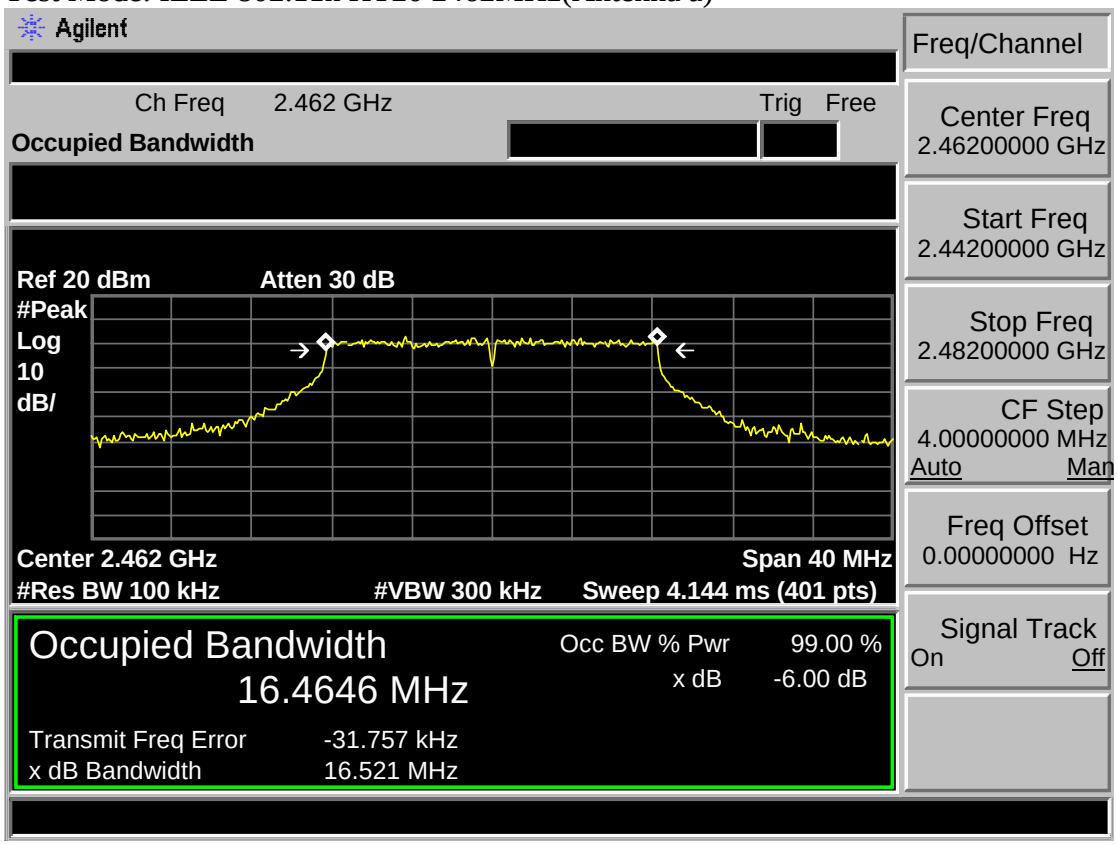
Test Mode: IEEE 802.11n HT20 2437MHz(Antenna a)



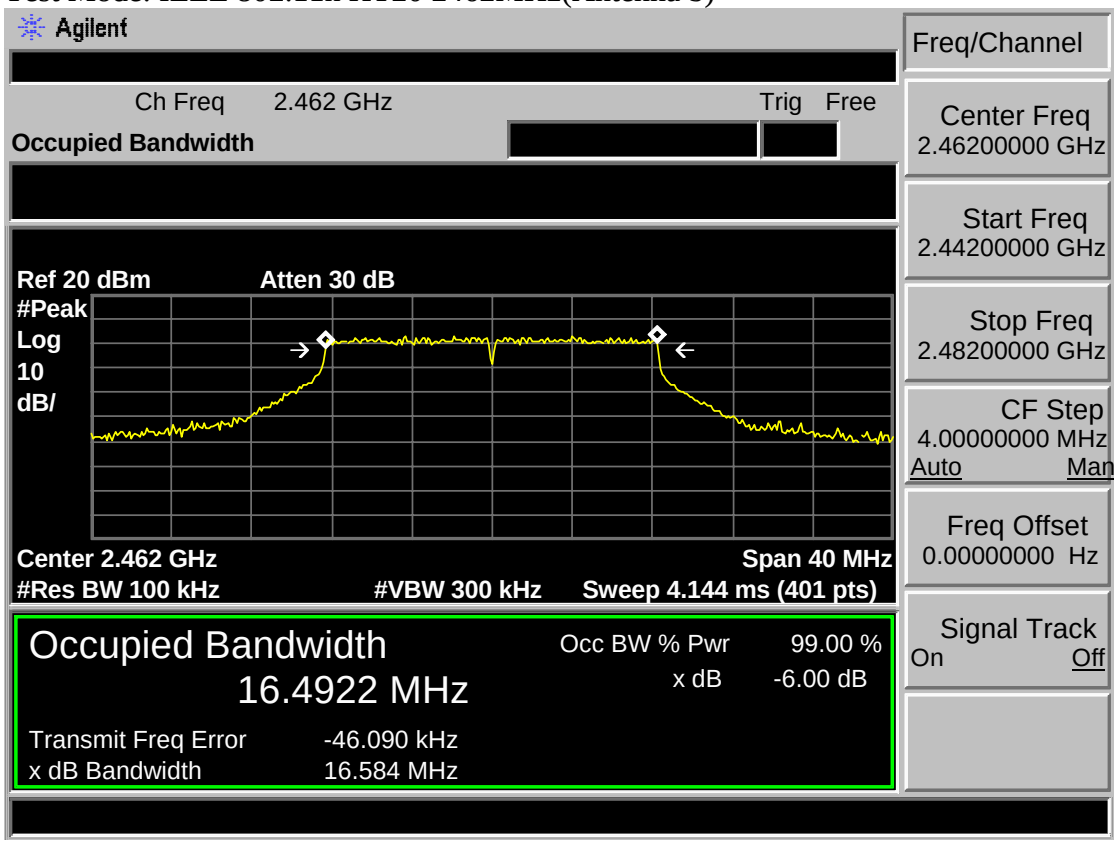
Test Mode: IEEE 802.11n HT20 2437MHz(Antenna b)



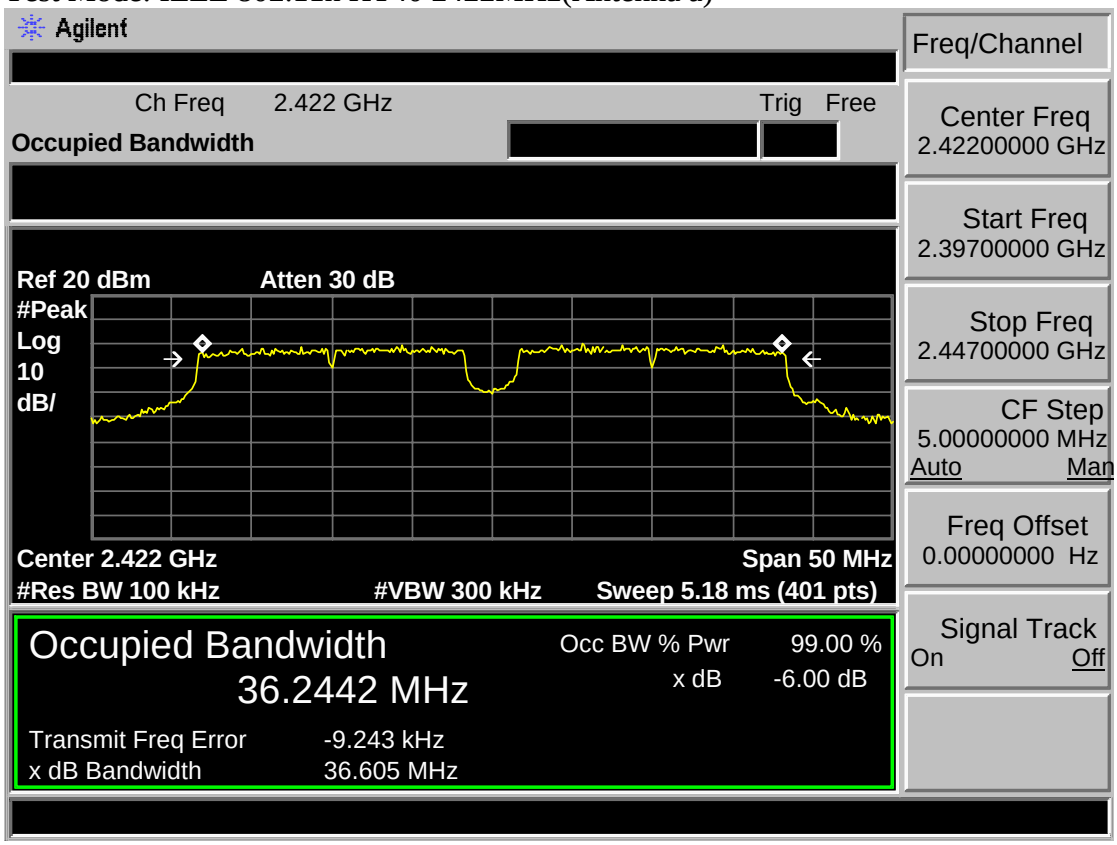
Test Mode: IEEE 802.11n HT20 2462MHz(Antenna a)



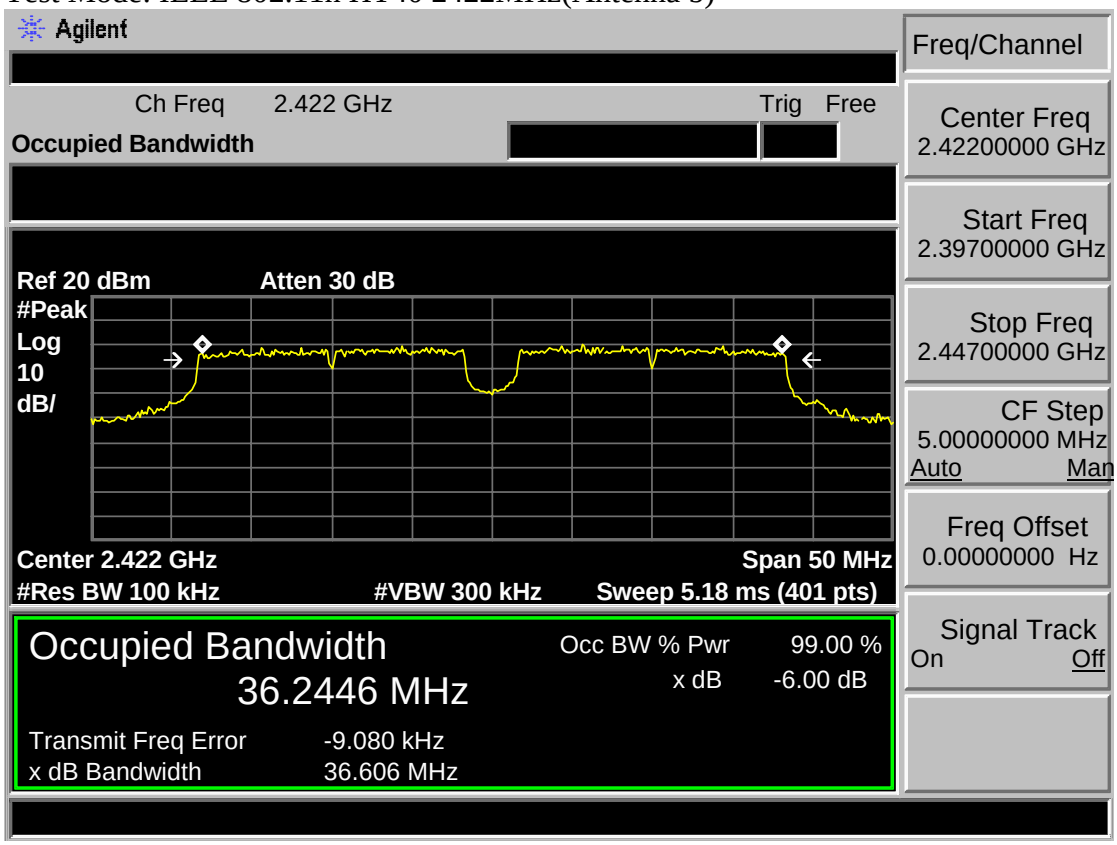
Test Mode: IEEE 802.11n HT20 2462MHz(Antenna b)



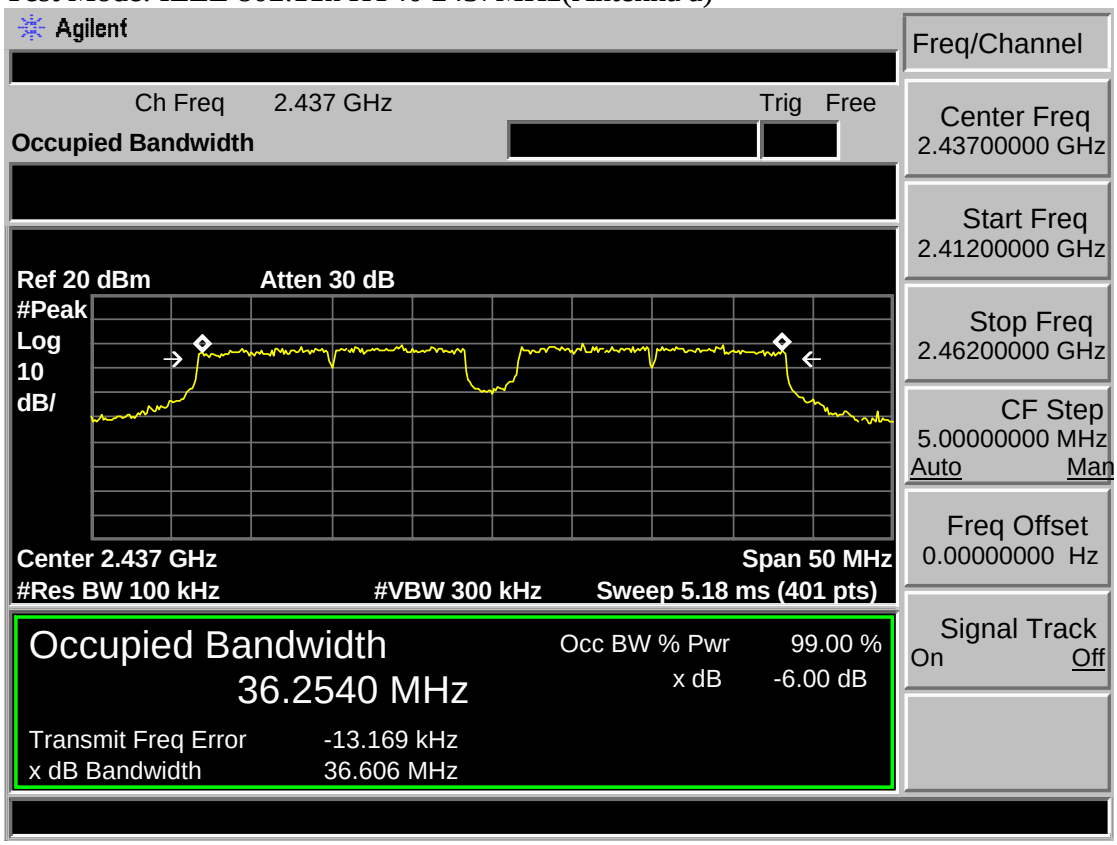
Test Mode: IEEE 802.11n HT40 2422MHz(Antenna a)



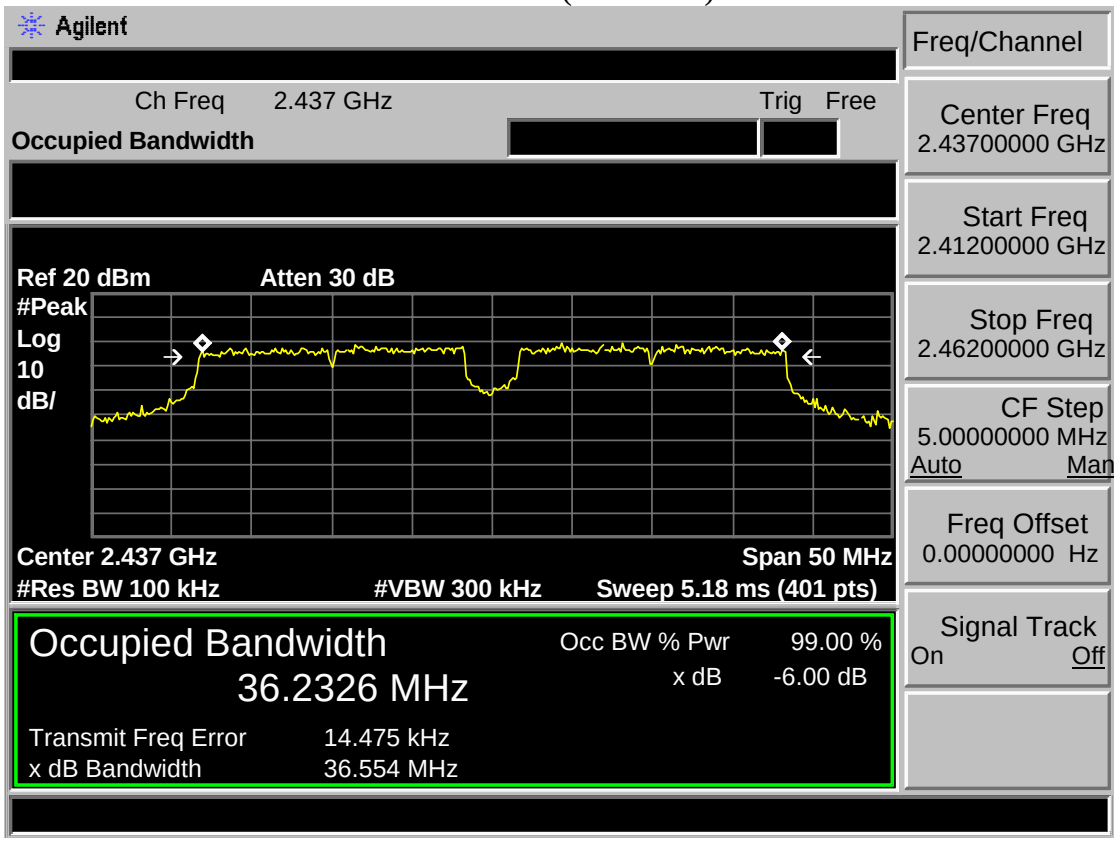
Test Mode: IEEE 802.11n HT40 2422MHz(Antenna b)



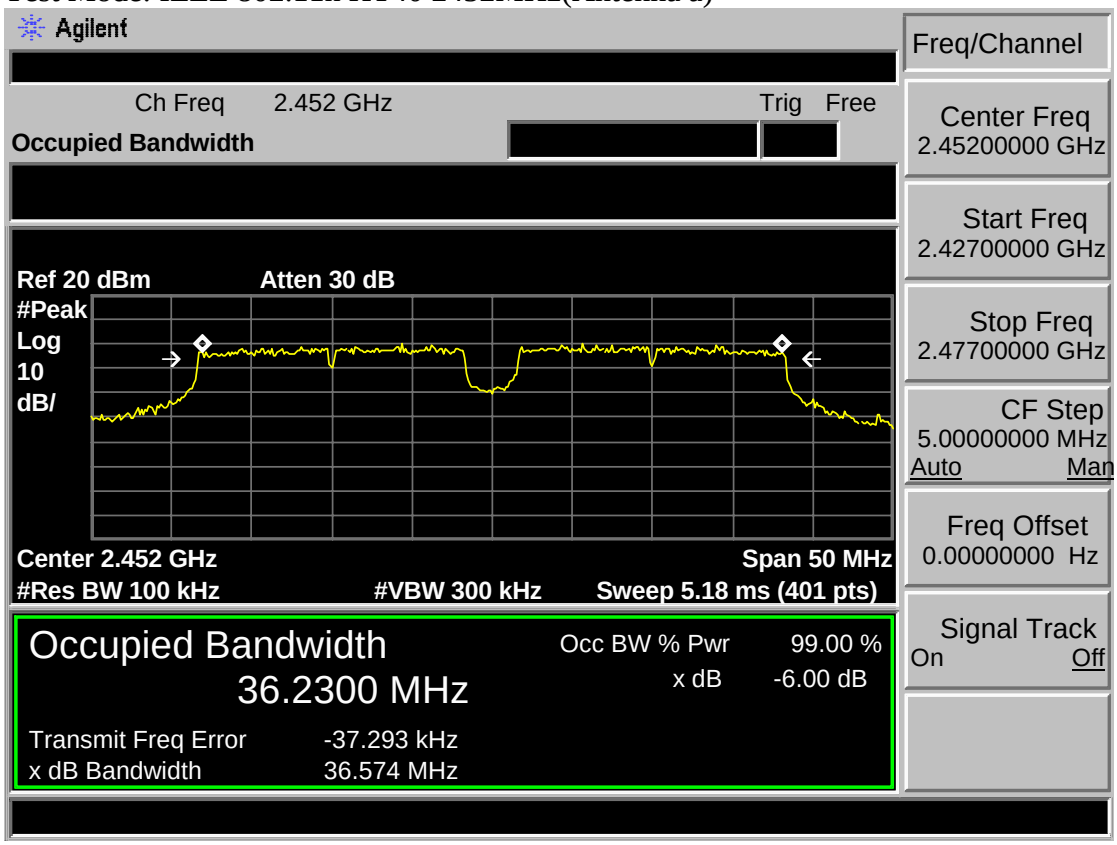
Test Mode: IEEE 802.11n HT40 2437MHz(Antenna a)



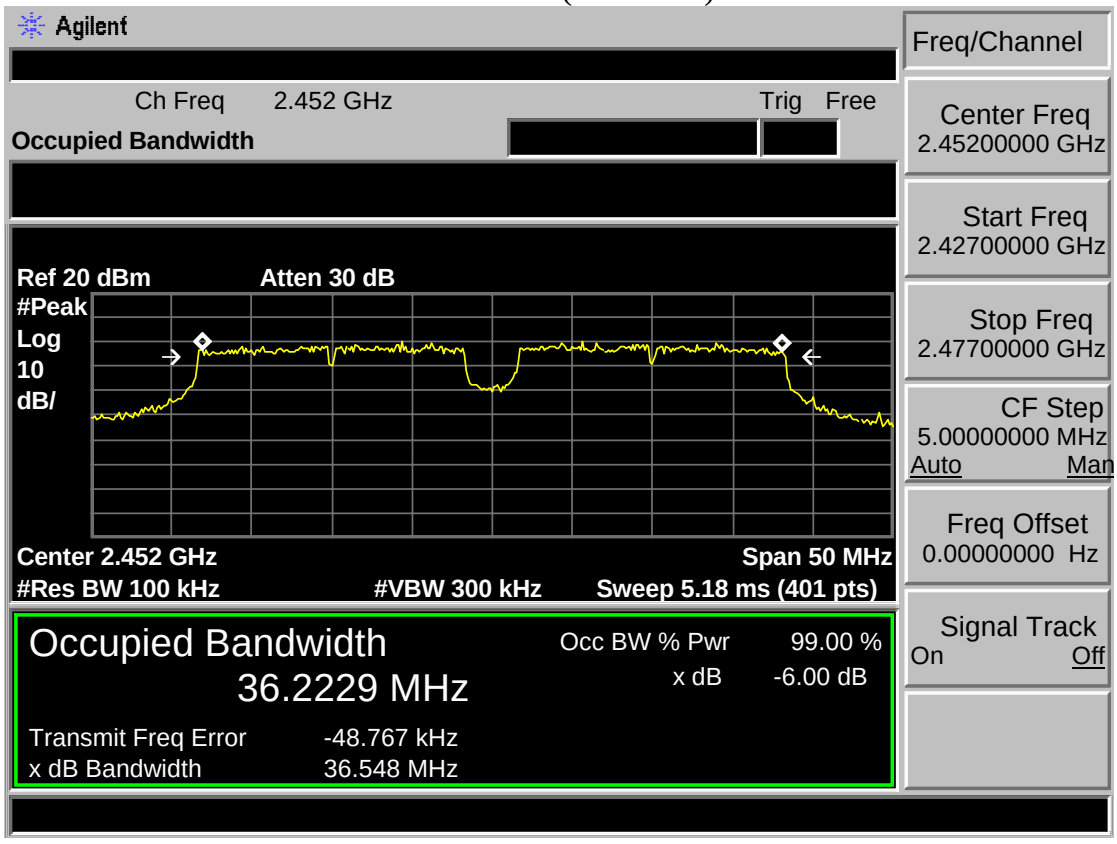
Test Mode: IEEE 802.11n HT40 2437MHz(Antenna b)



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

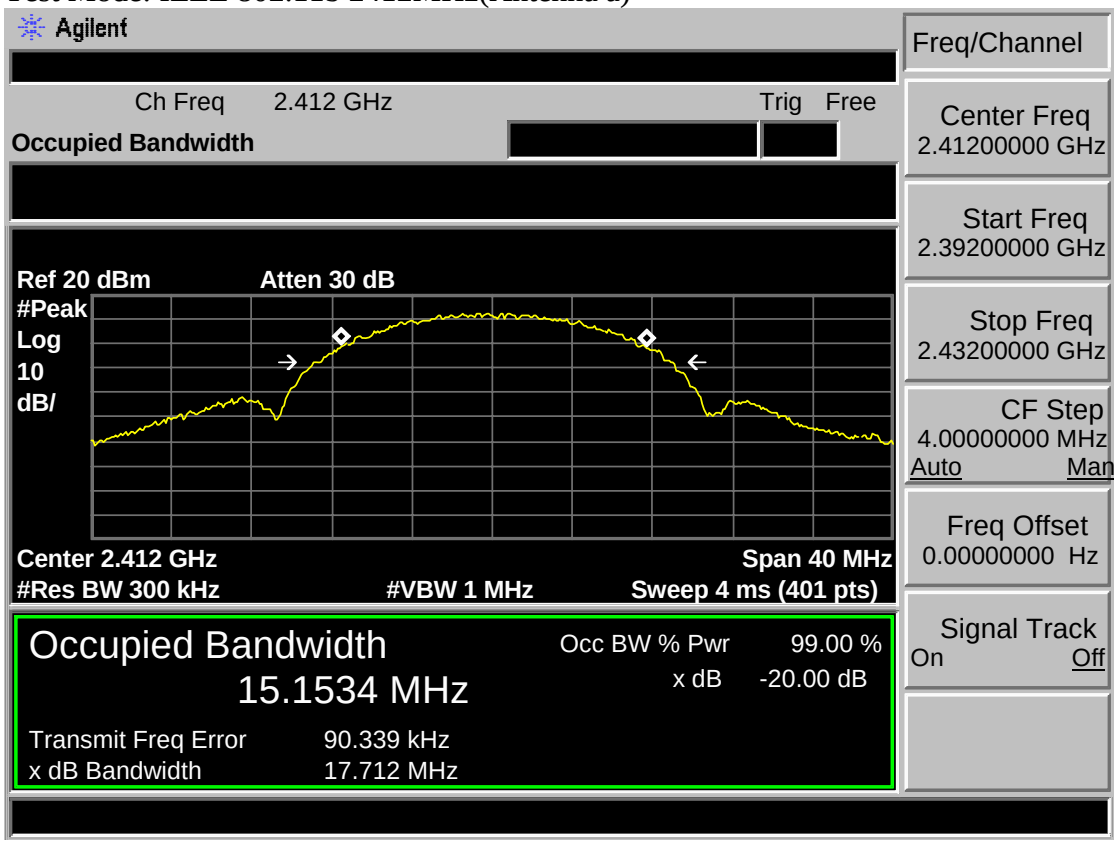


Test Mode: IEEE 802.11n HT40 2452MHz(Antenna b)

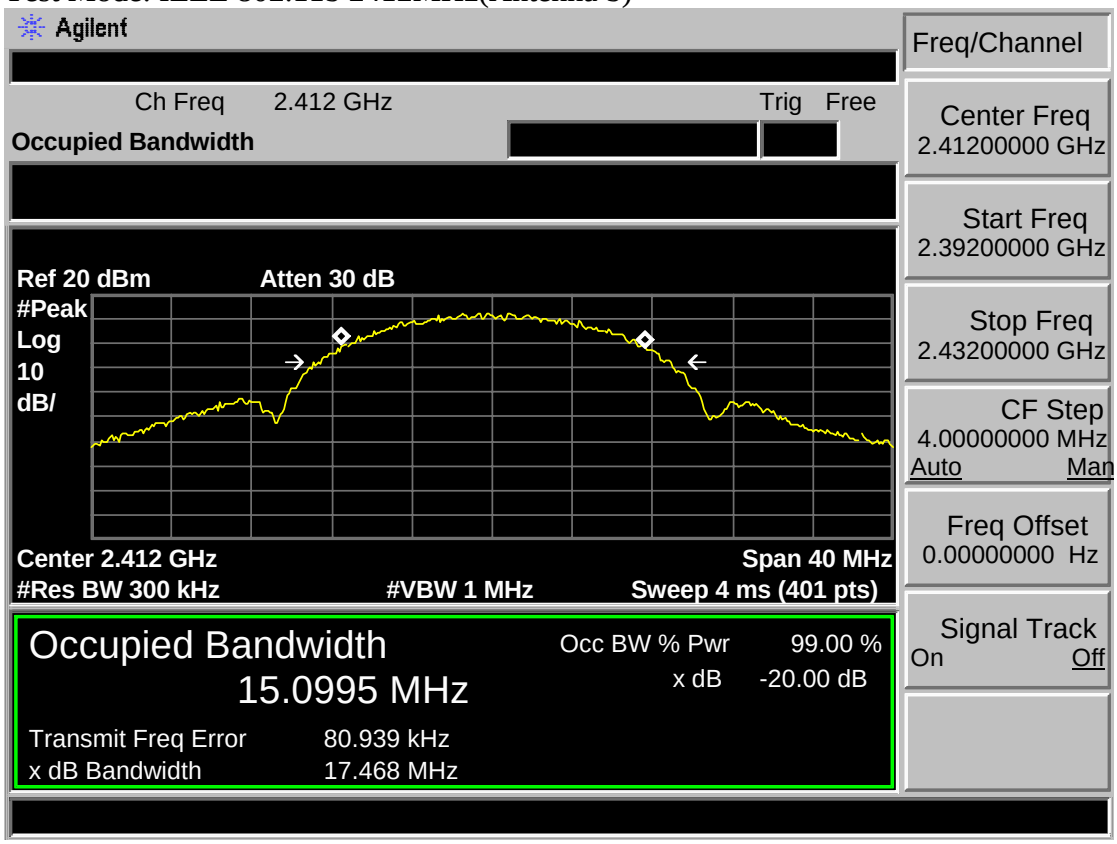


6.6 20dB Test Data

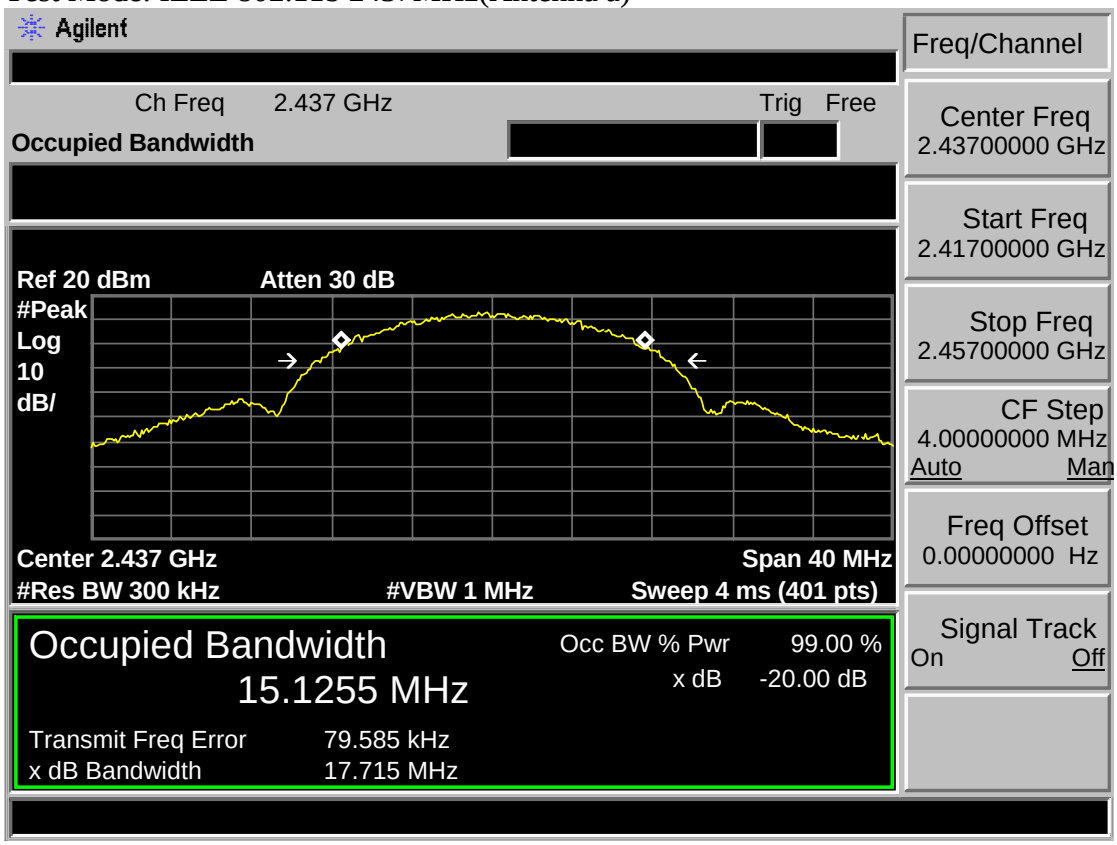
Test Mode: IEEE 802.11b 2412MHz(Antenna a)



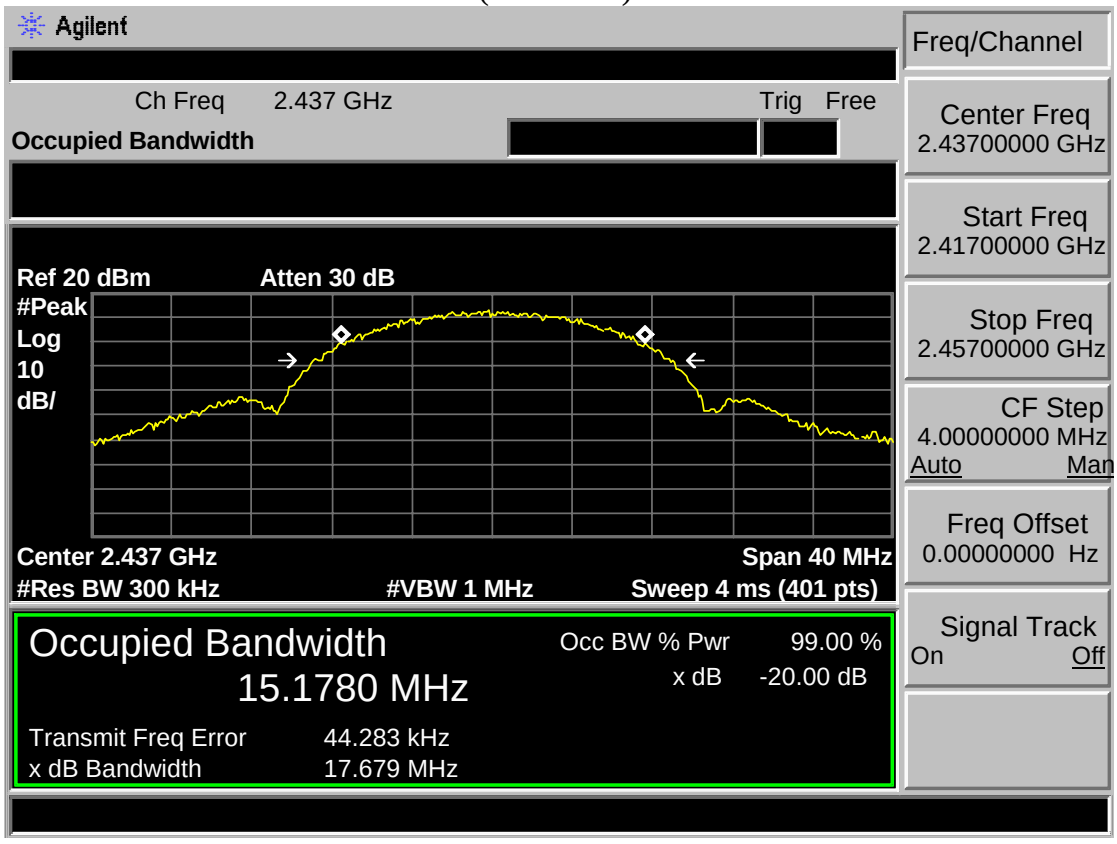
Test Mode: IEEE 802.11b 2412MHz(Antenna b)



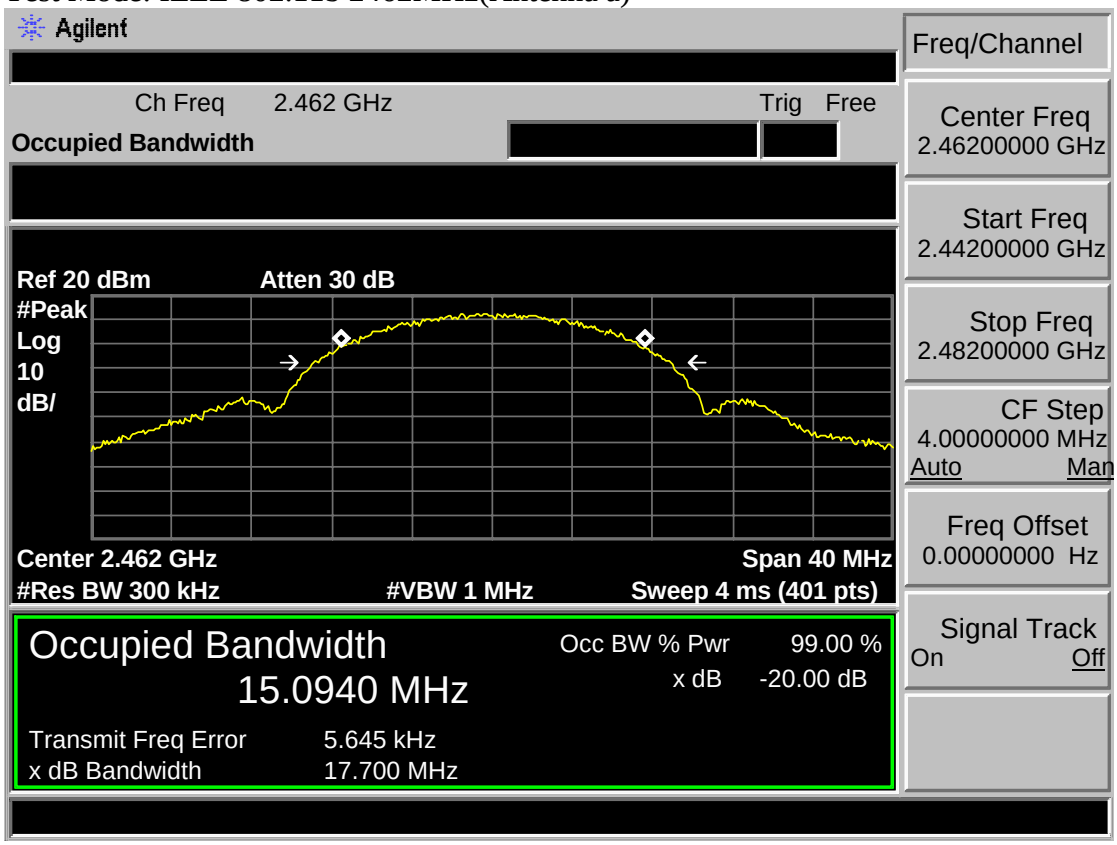
Test Mode: IEEE 802.11b 2437MHz(Antenna a)



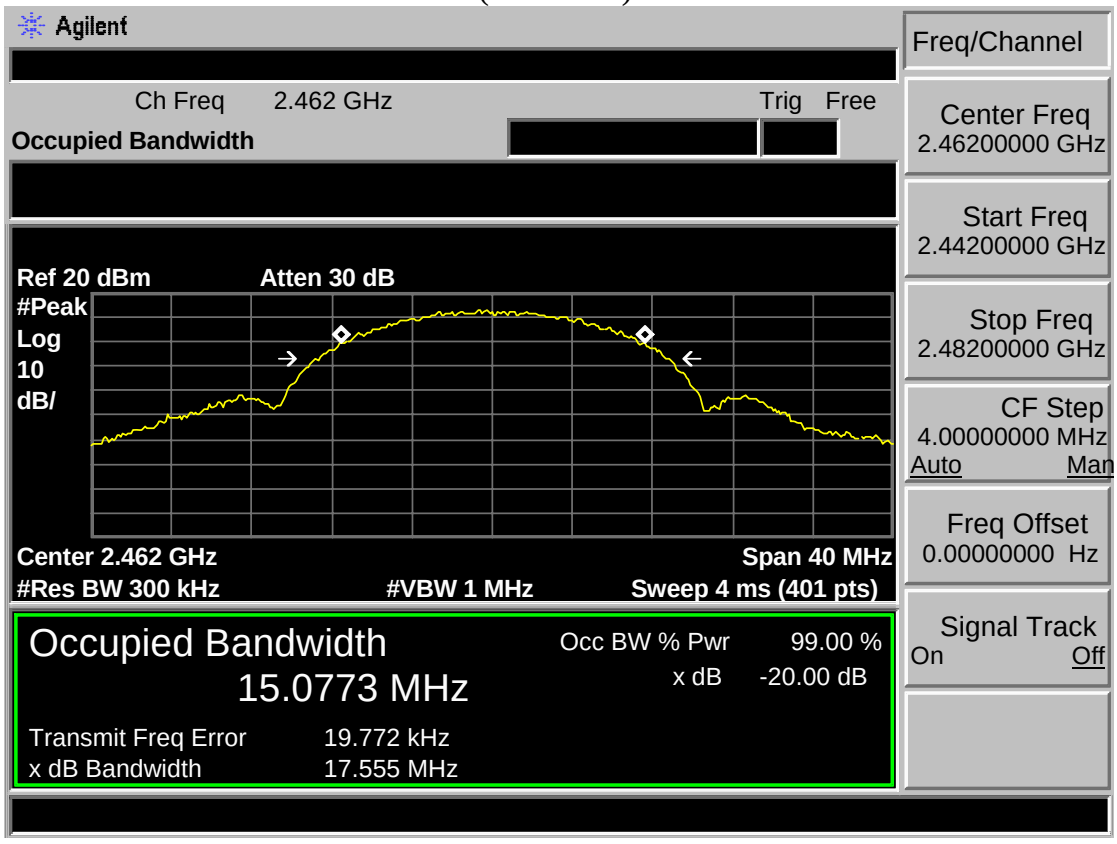
Test Mode: IEEE 802.11b 2437MHz(Antenna b)



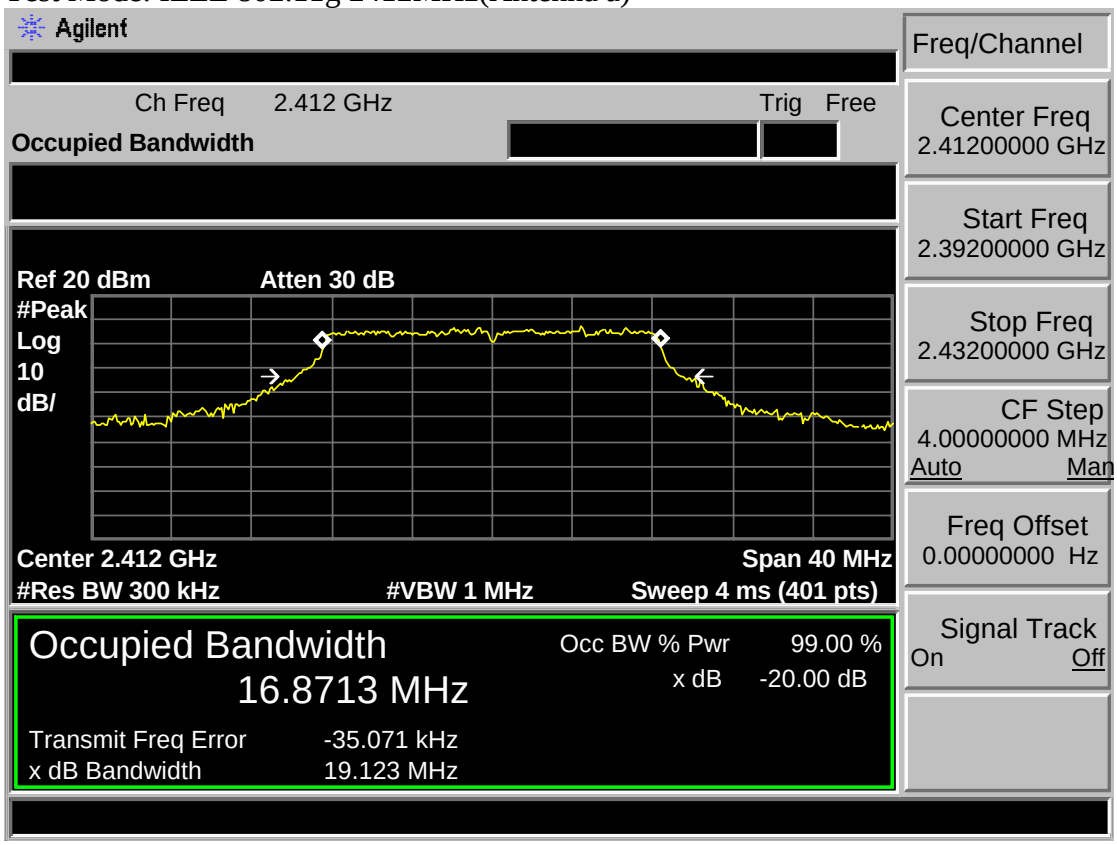
Test Mode: IEEE 802.11b 2462MHz(Antenna a)



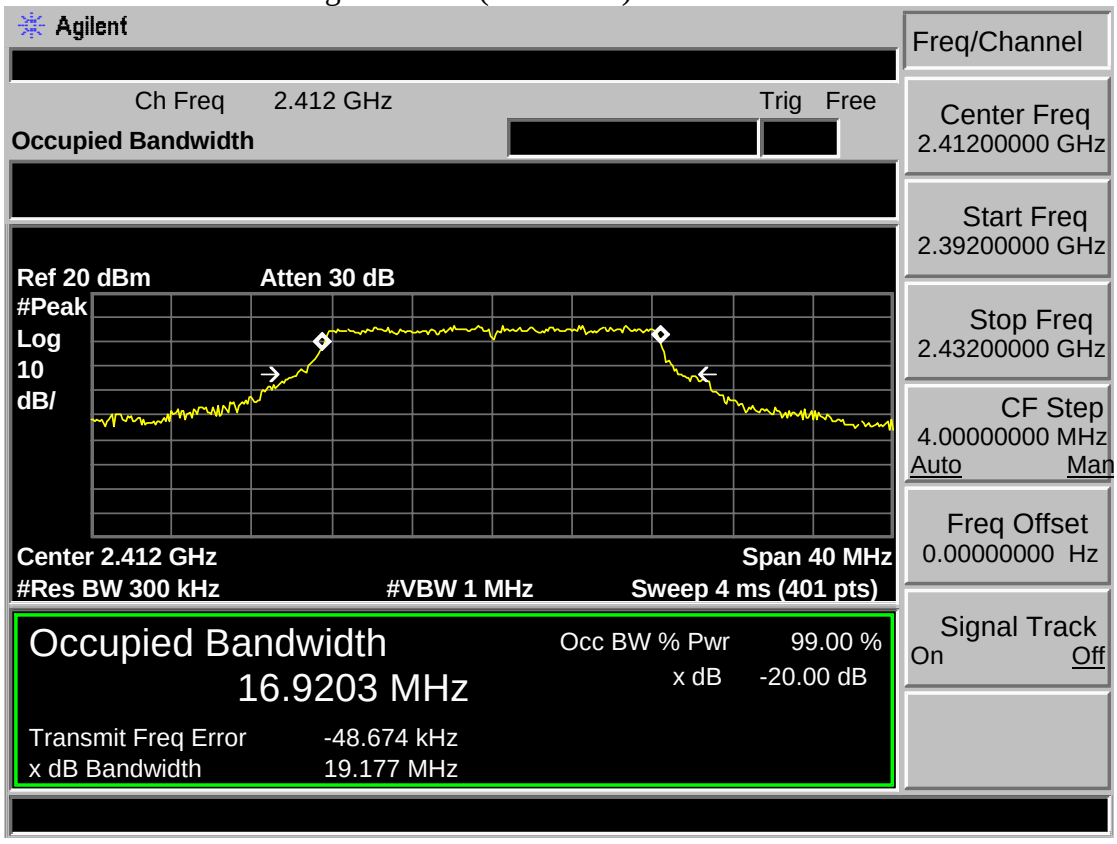
Test Mode: IEEE 802.11b 2462MHz(Antenna b)



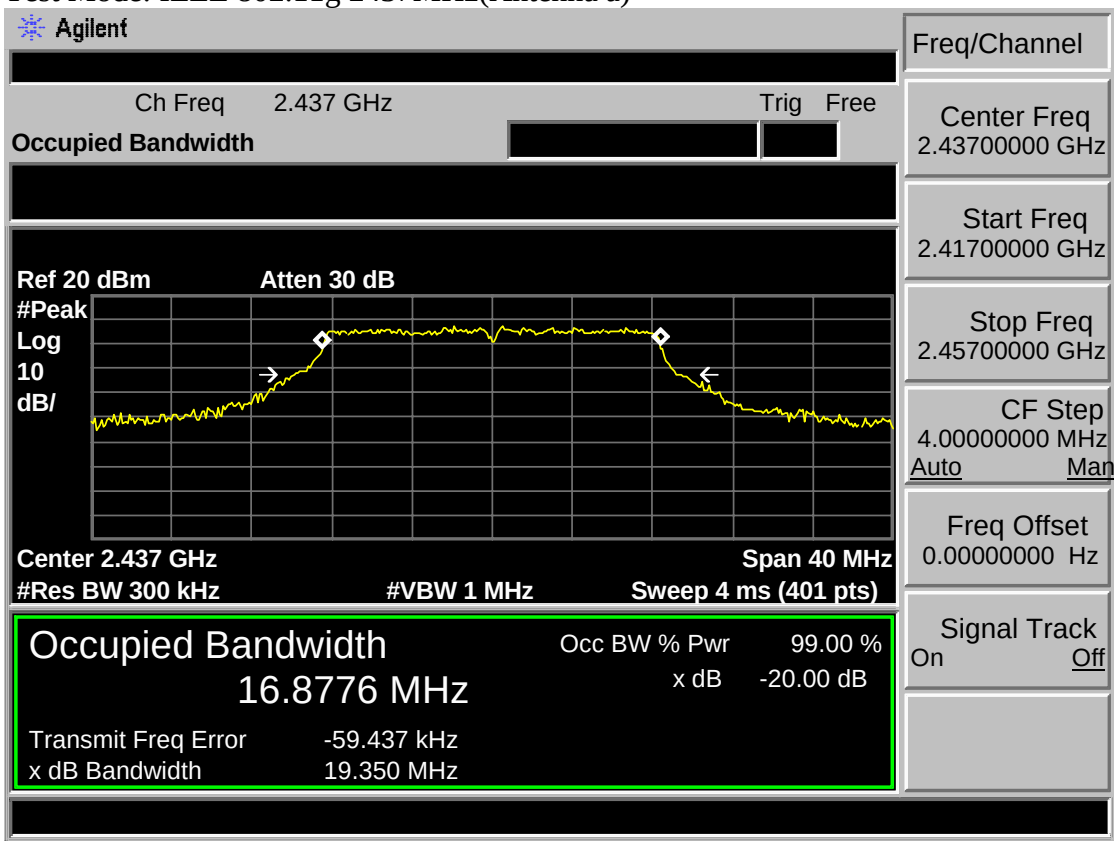
Test Mode: IEEE 802.11g 2412MHz(Antenna a)



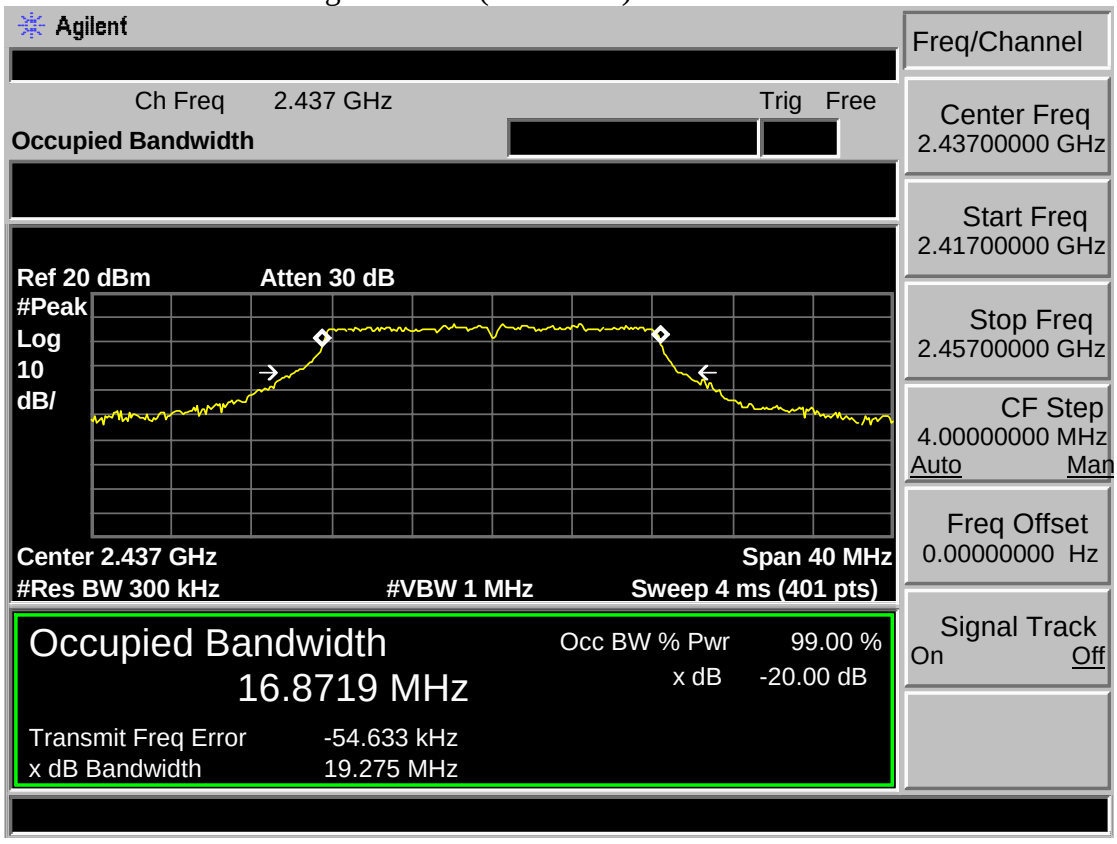
Test Mode: IEEE 802.11g 2412MHz(Antenna b)



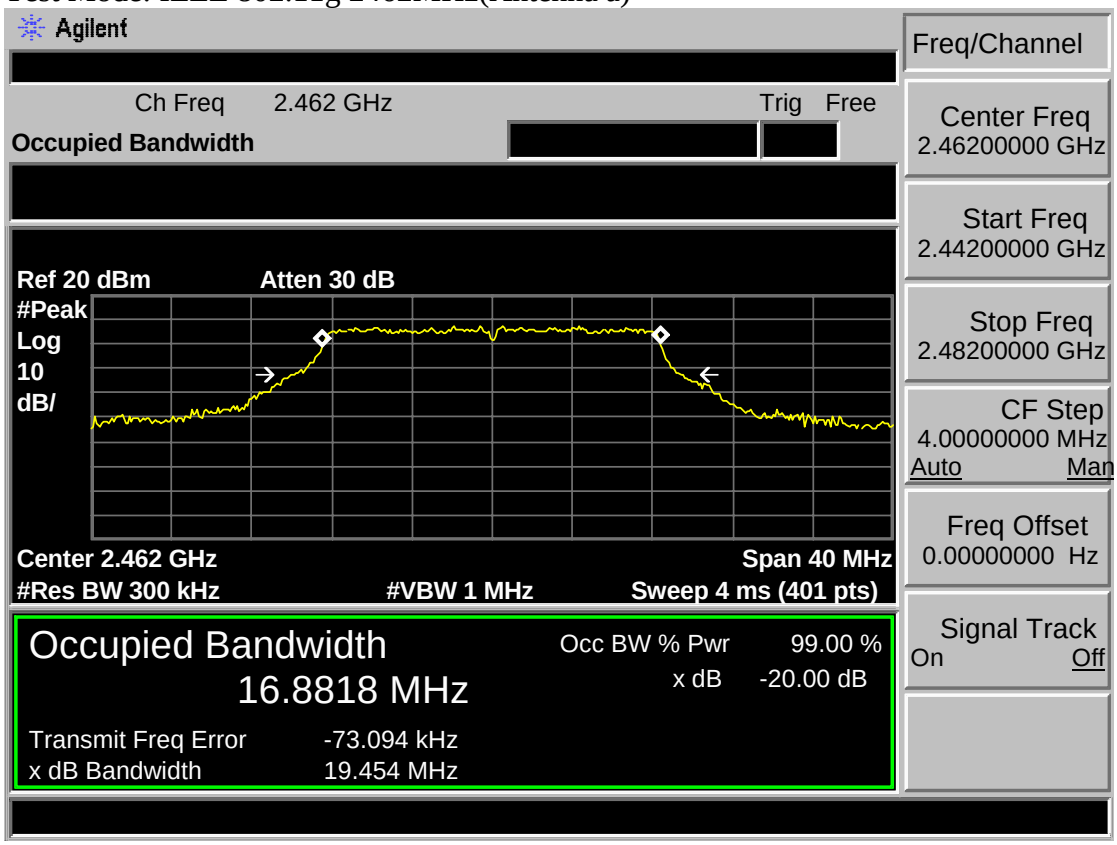
Test Mode: IEEE 802.11g 2437MHz(Antenna a)



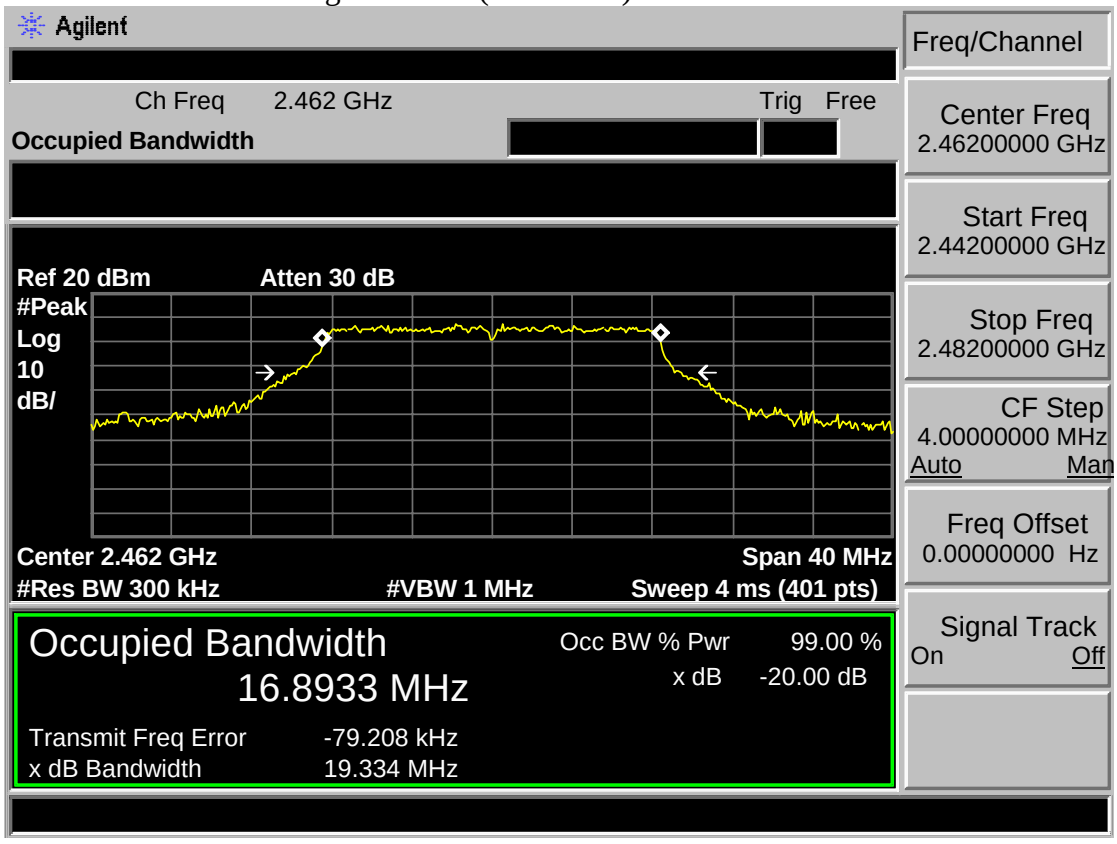
Test Mode: IEEE 802.11g 2437MHz(Antenna b)



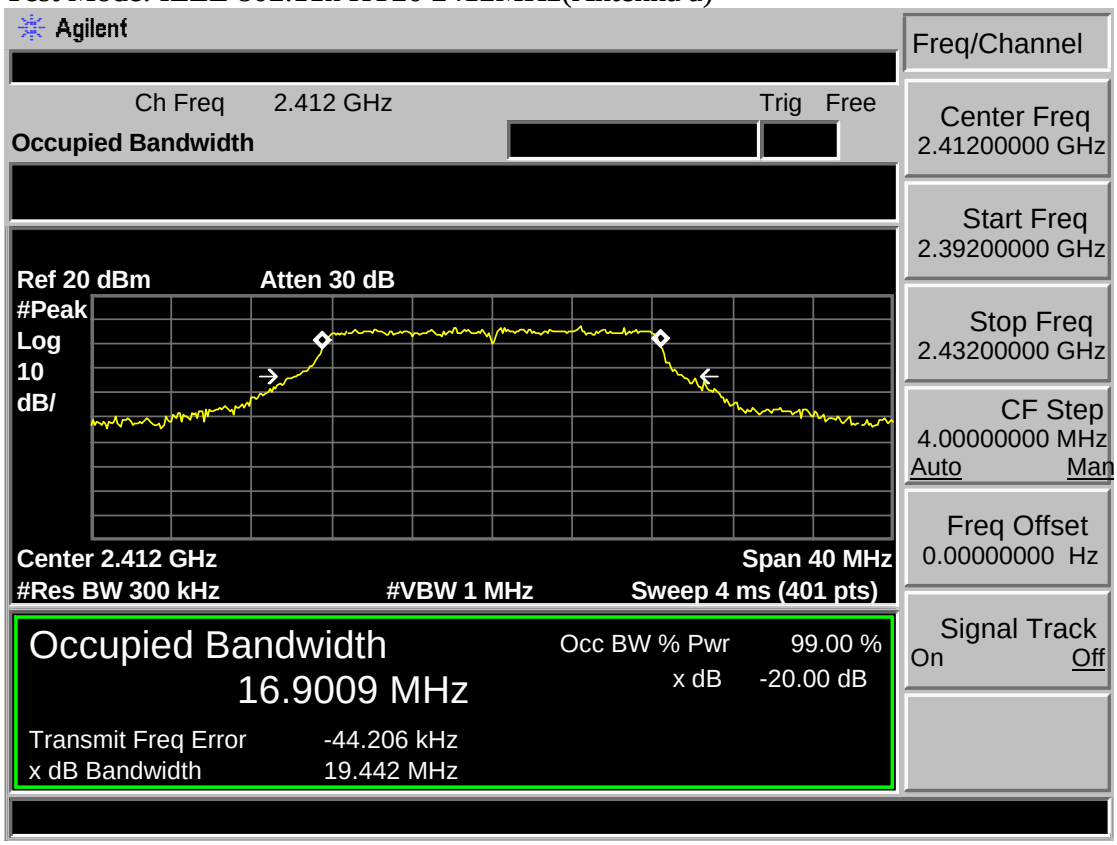
Test Mode: IEEE 802.11g 2462MHz(Antenna a)



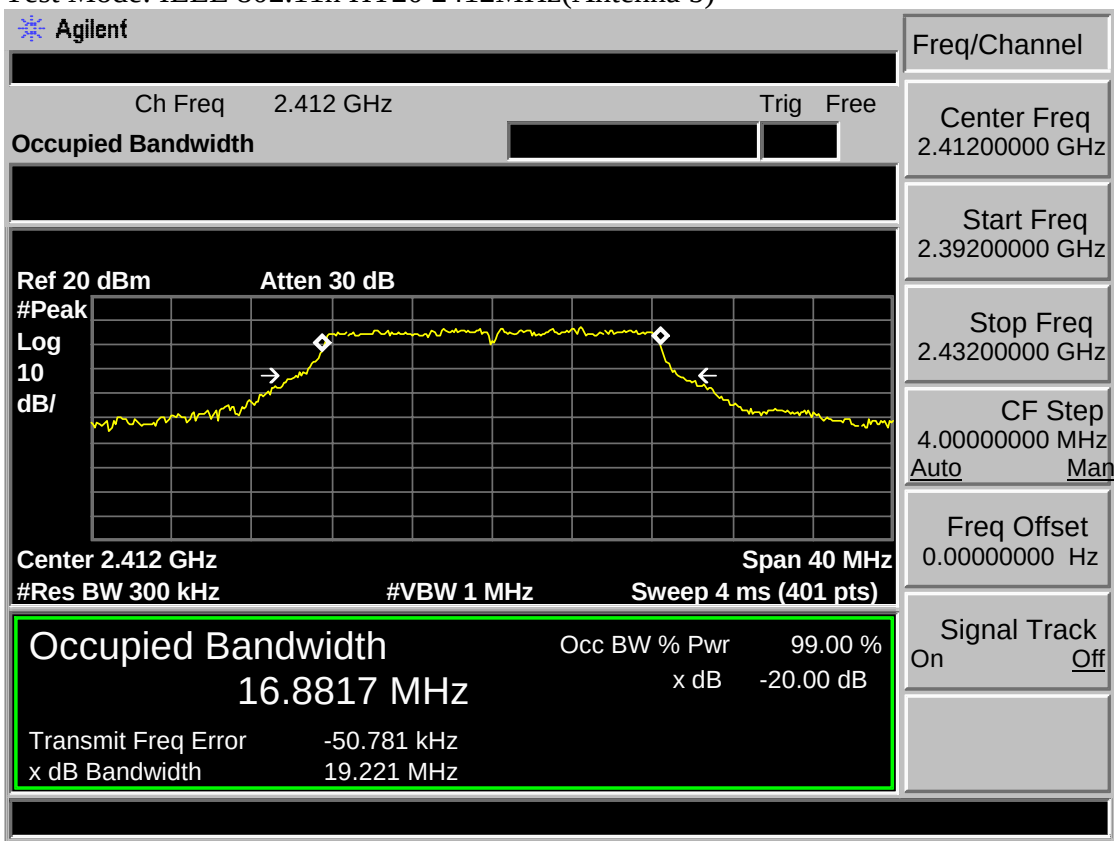
Test Mode: IEEE 802.11g 2462MHz(Antenna b)



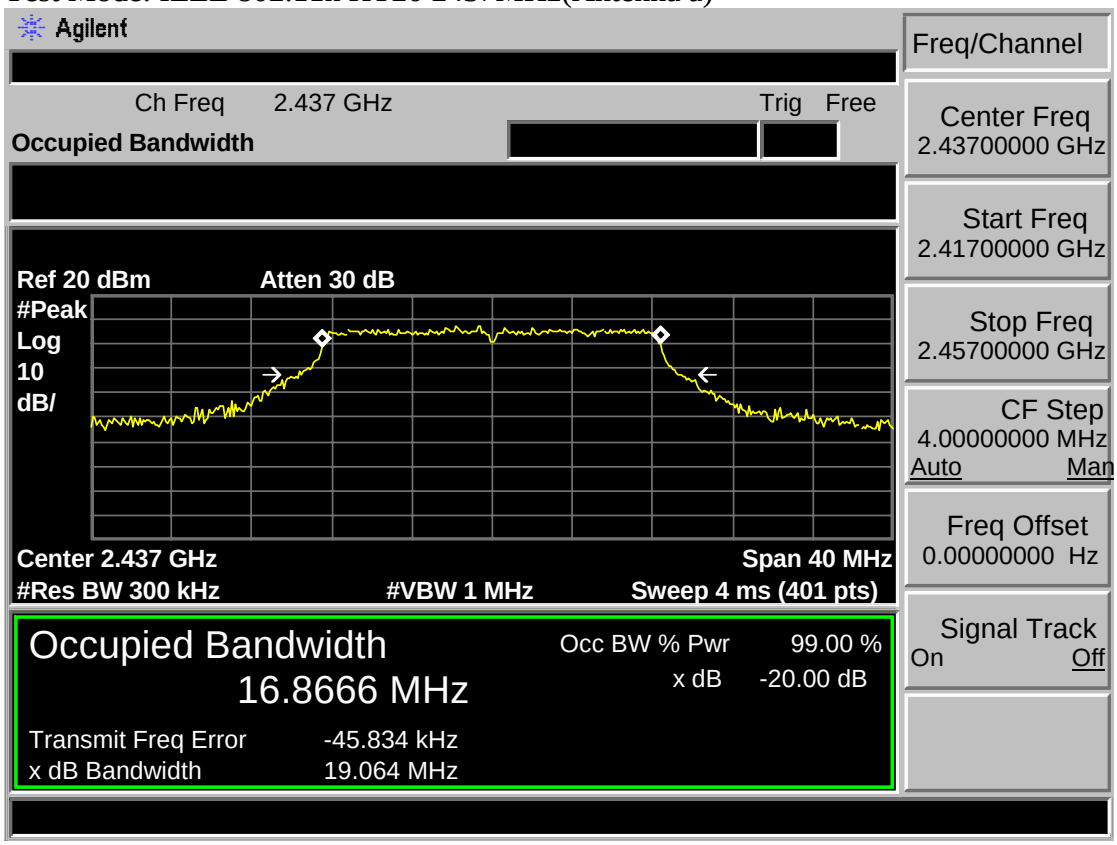
Test Mode: IEEE 802.11n HT20 2412MHz(Antenna a)



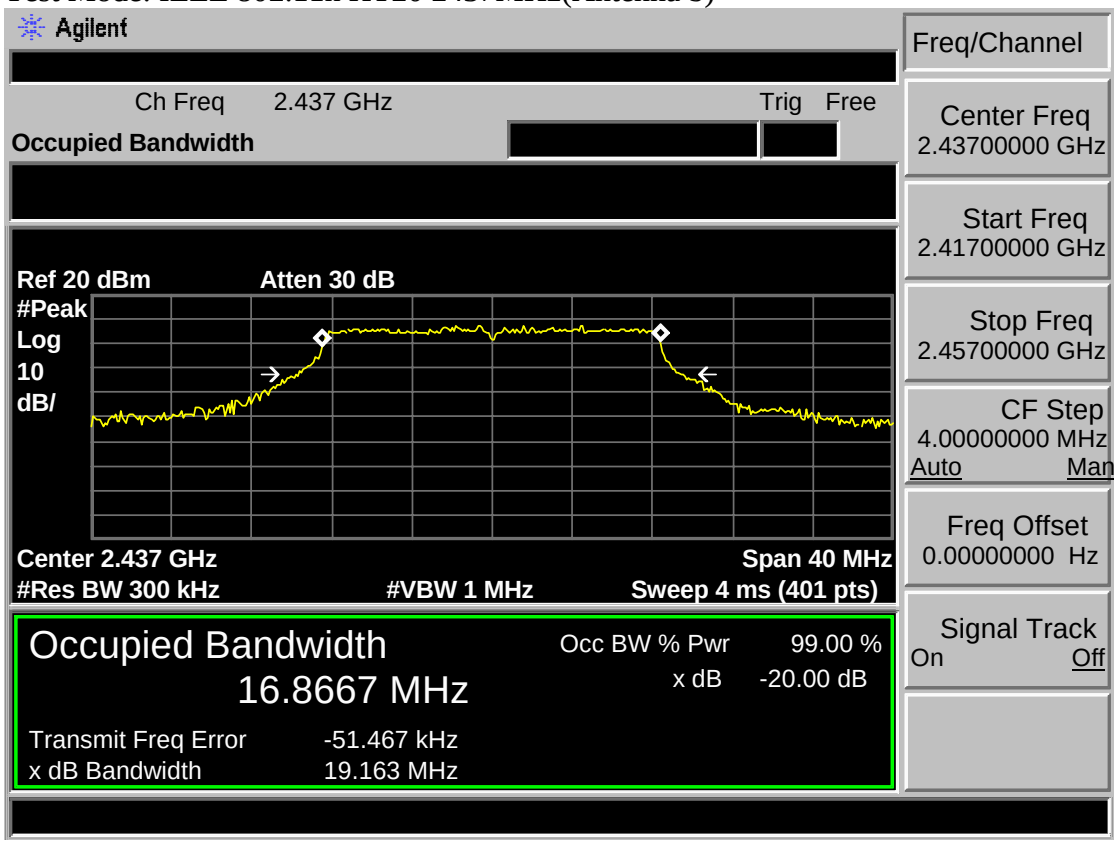
Test Mode: IEEE 802.11n HT20 2412MHz(Antenna b)



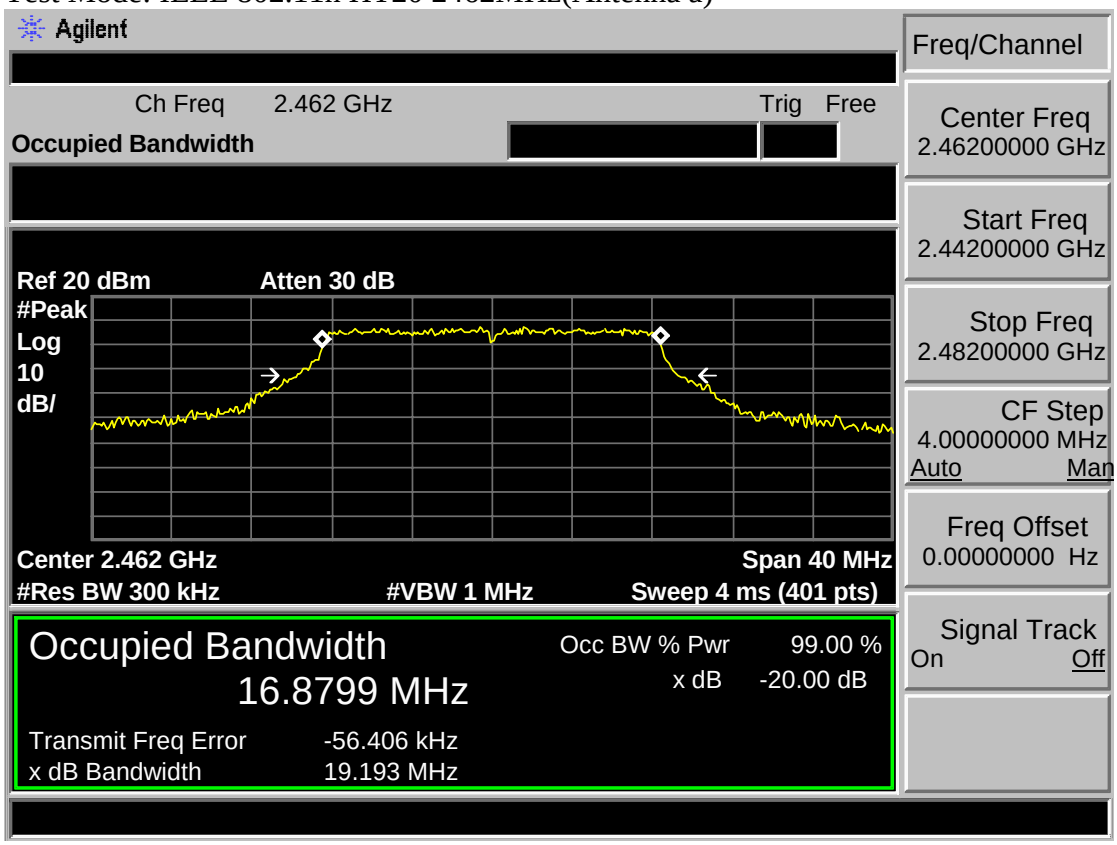
Test Mode: IEEE 802.11n HT20 2437MHz(Antenna a)



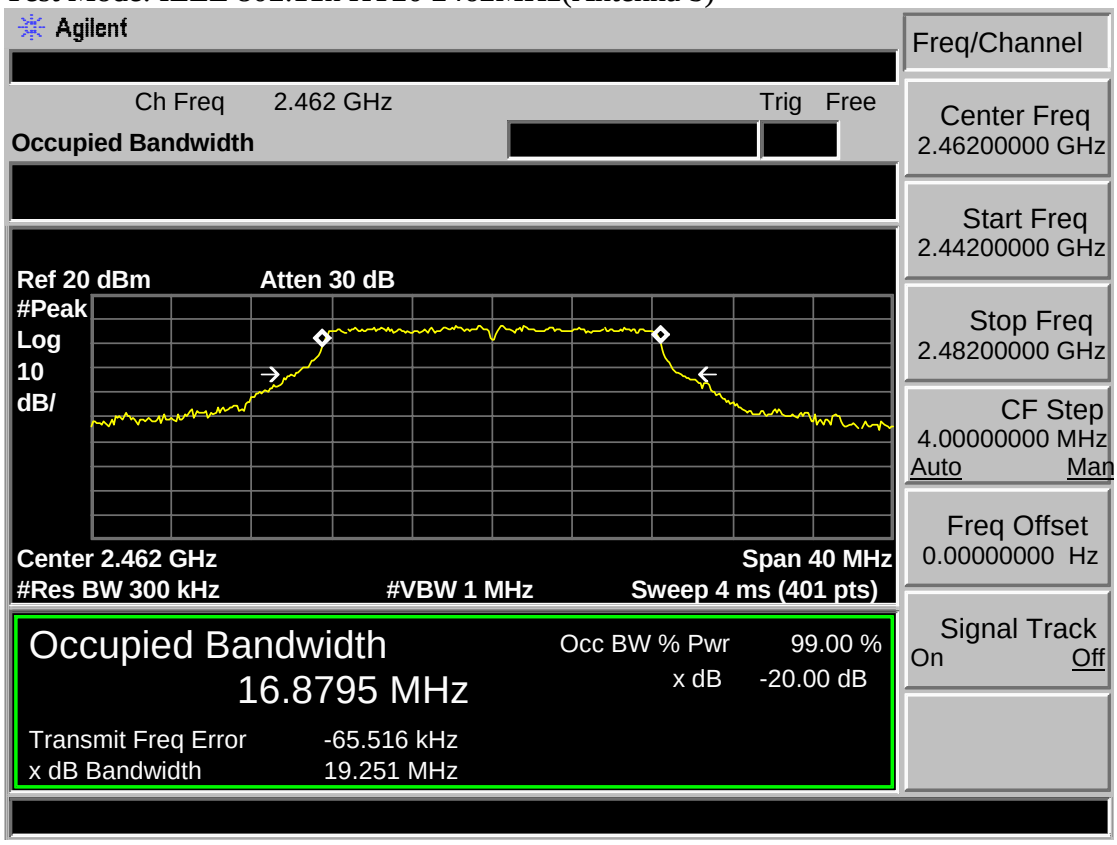
Test Mode: IEEE 802.11n HT20 2437MHz(Antenna b)



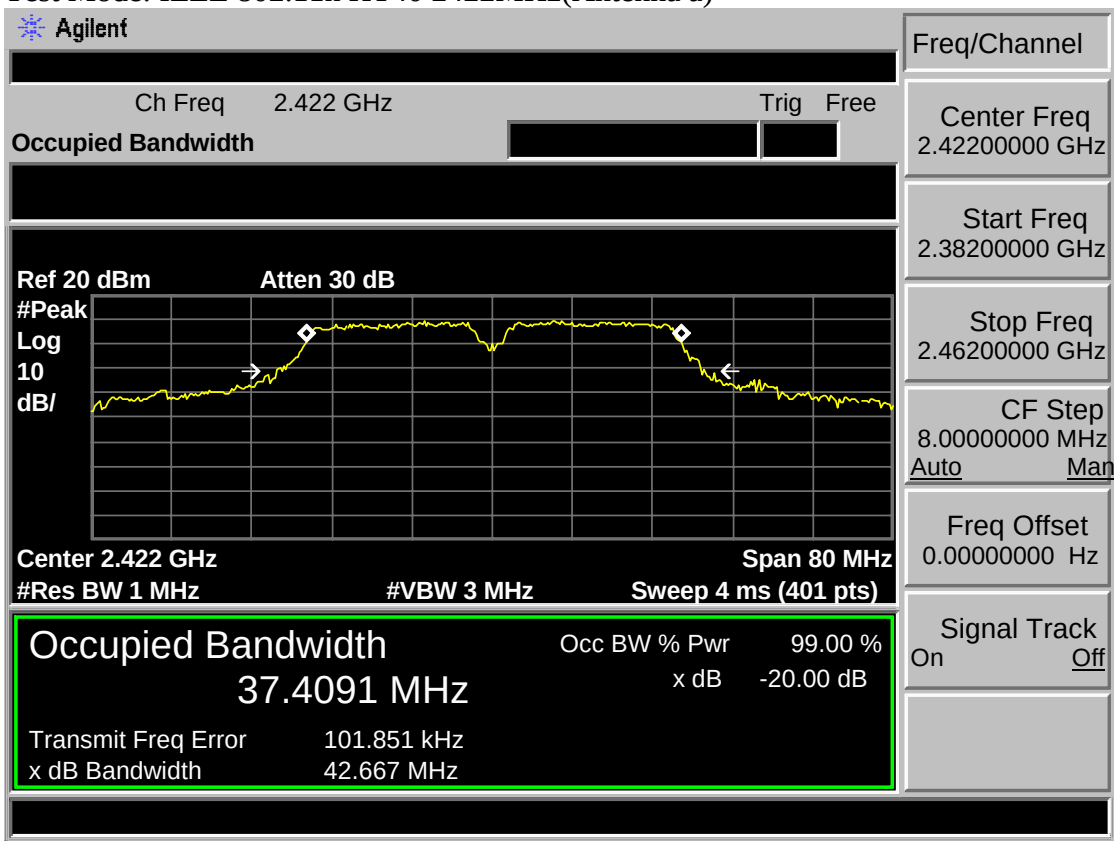
Test Mode: IEEE 802.11n HT20 2462MHz(Antenna a)



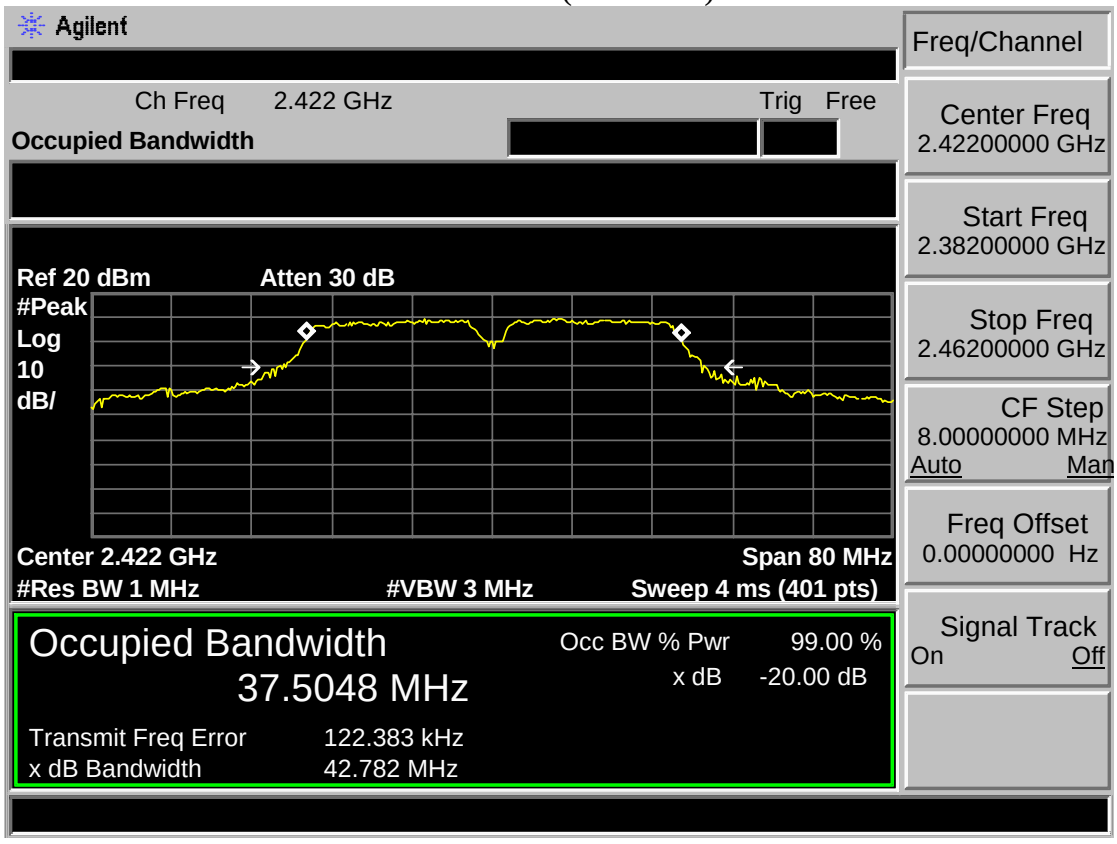
Test Mode: IEEE 802.11n HT20 2462MHz(Antenna b)



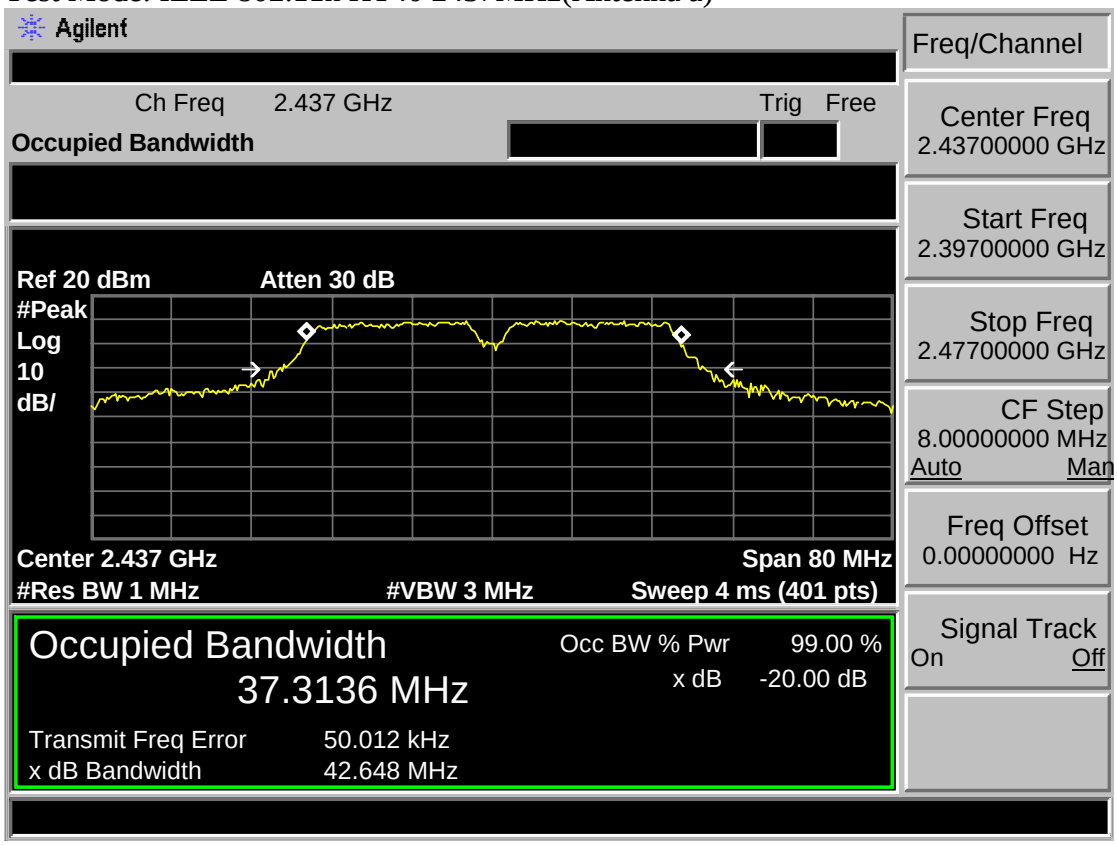
Test Mode: IEEE 802.11n HT40 2422MHz(Antenna a)



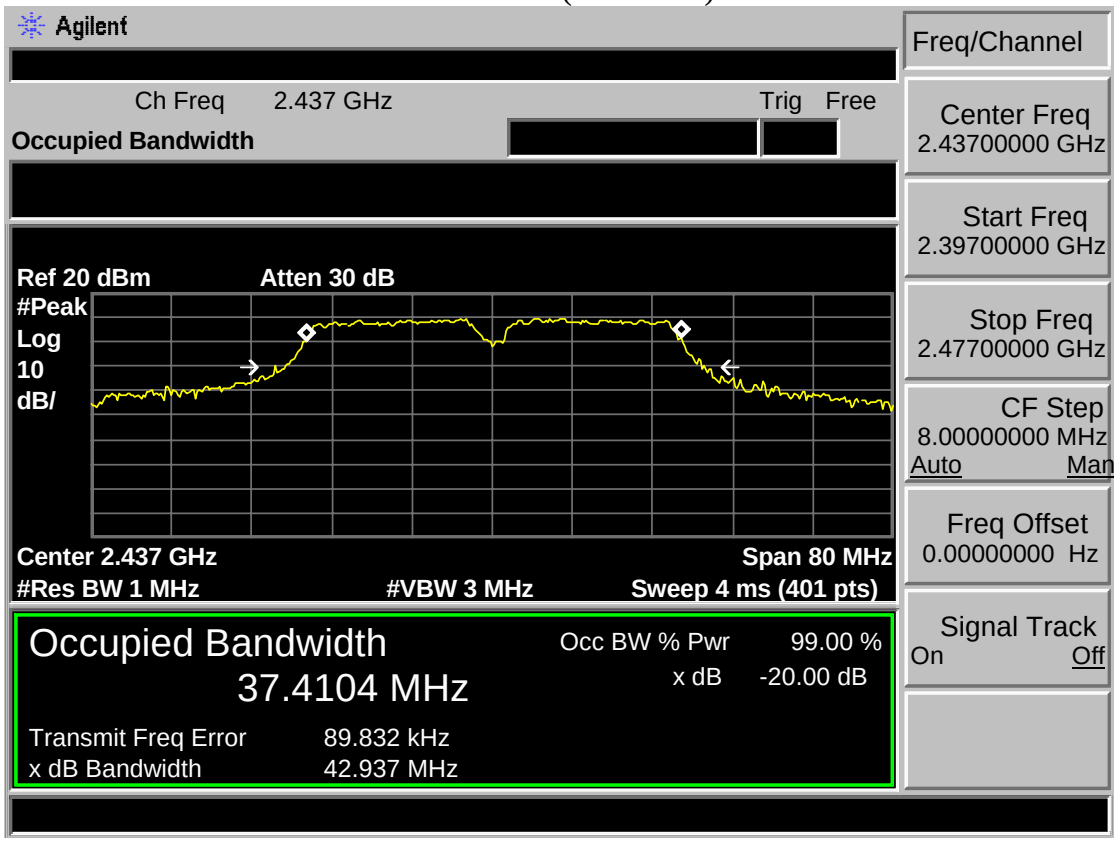
Test Mode: IEEE 802.11n HT40 2422MHz(Antenna b)



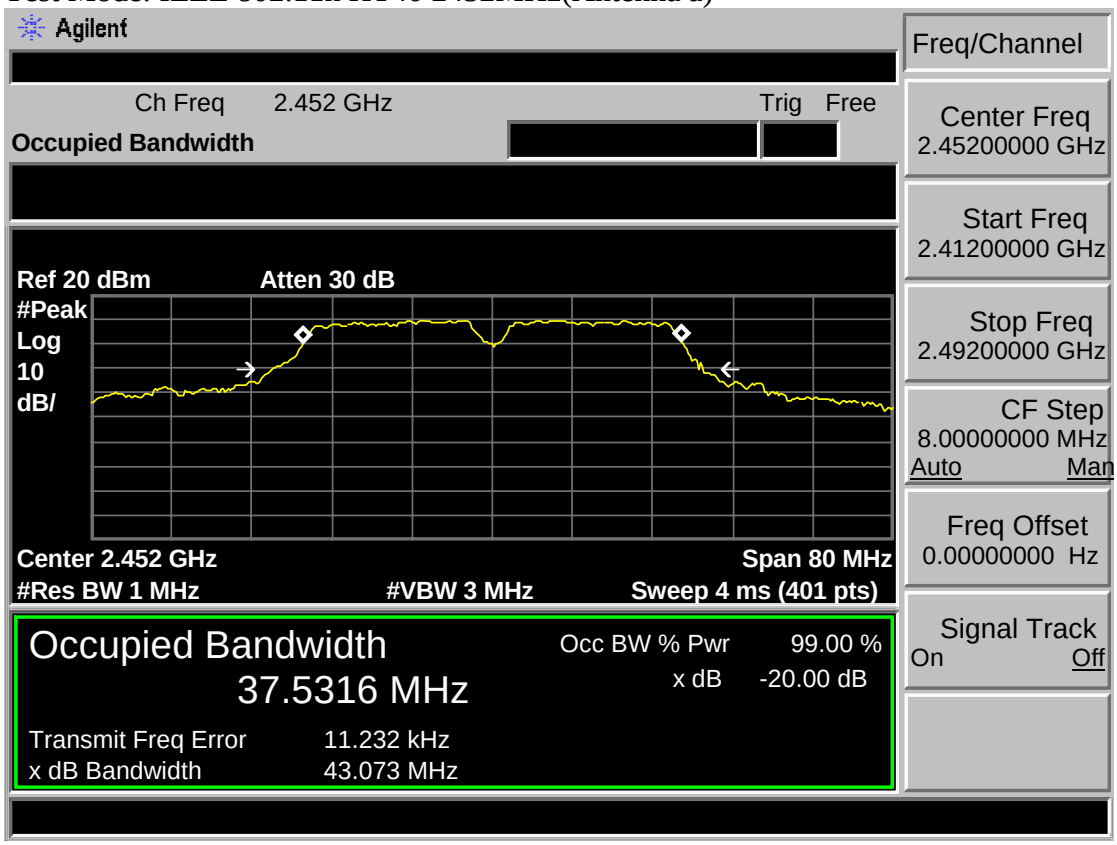
Test Mode: IEEE 802.11n HT40 2437MHz(Antenna a)



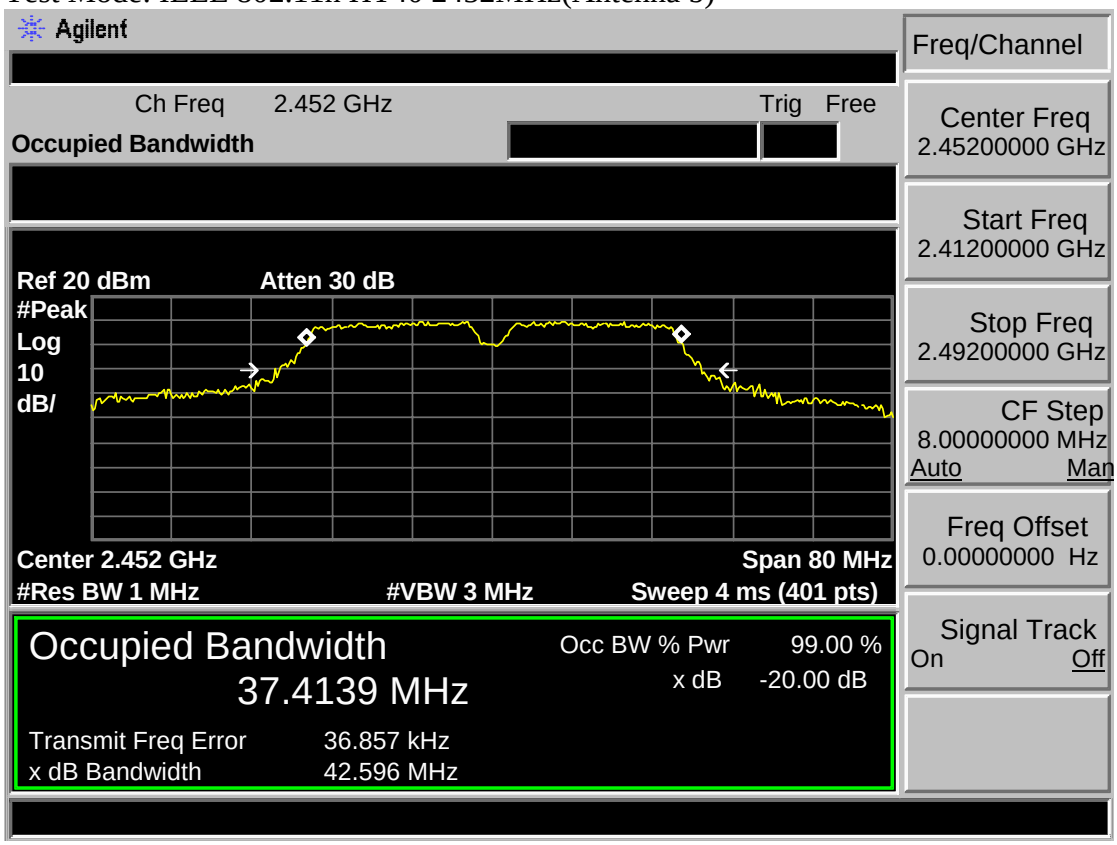
Test Mode: IEEE 802.11n HT40 2437MHz(Antenna b)



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 out put Power shall not exceed 1W(30dBm)

7.2 Test Procedure

7.3Test 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 ≥ 3 x RBW.
(4)Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing ≤ 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 ≥ 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.

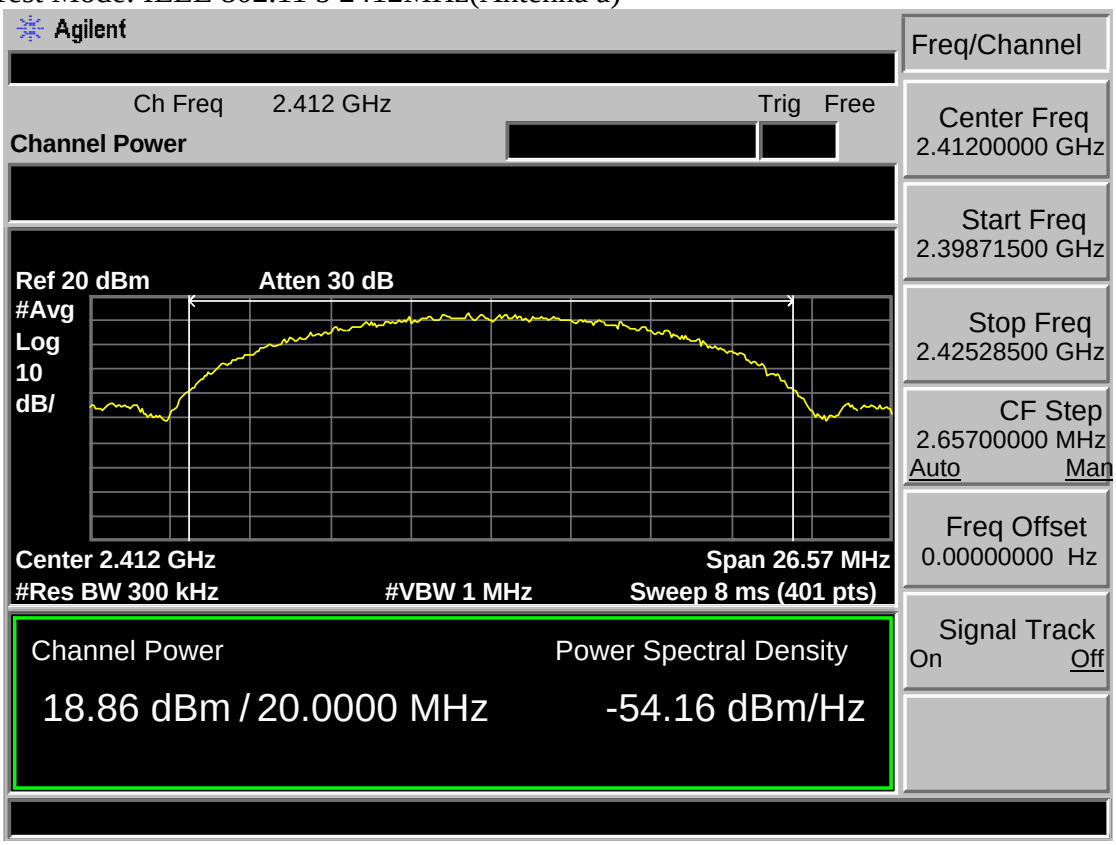
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

7.4 Test Result

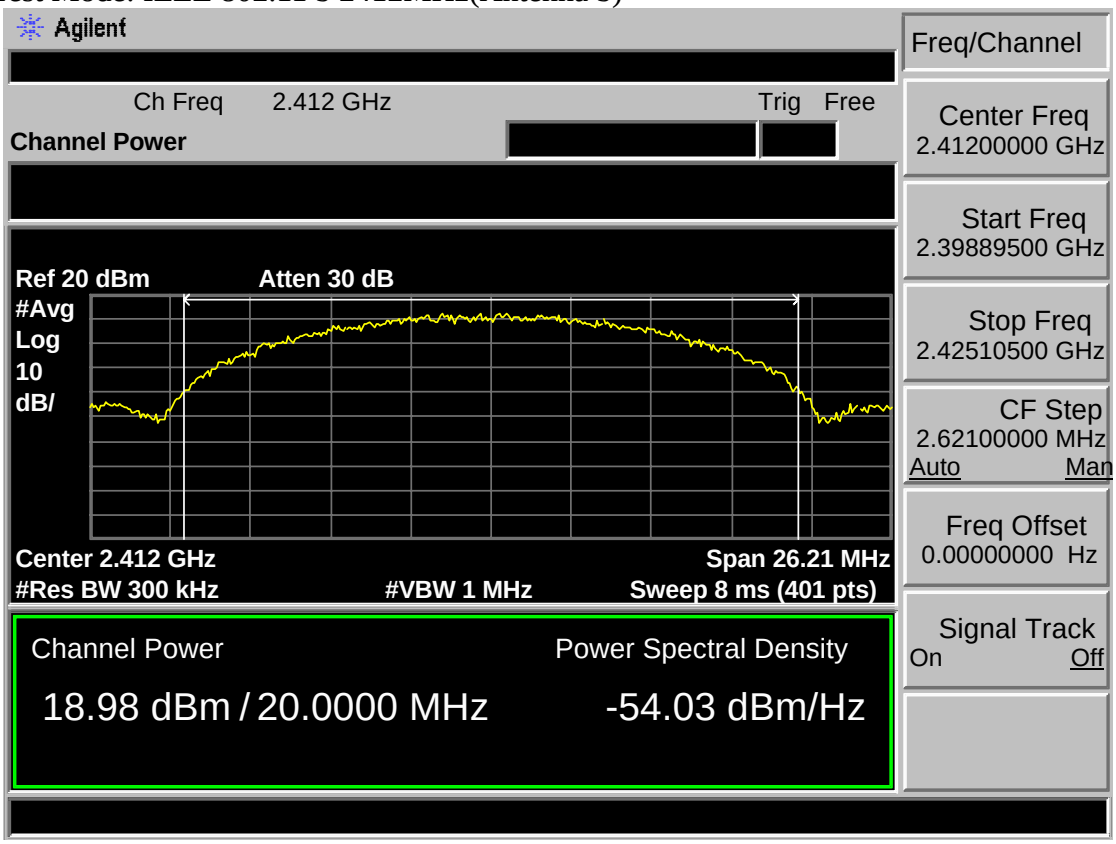
EUT: LED TV					
M/N: WD55UT4490					
Test date: 2016-09-29		Test site: 3m Chamber			Tested by: Tony Tang
Pass					
Test Mode	CH	Conducted Power （dBm）			Limit (dBm)
		ANT a	ANT b	Total	
IEEE 802.11 b	CH1	18.86	18.98	/	30
	CH6	19.15	19.03	/	30
	CH11	18.92	18.78	/	30
IEEE 802.11 g	CH1	14.74	14.53	/	30
	CH6	15.13	14.84	/	30
	CH11	16.08	15.13	/	30
IEEE 802.11 n HT 20	CH1	14.94	14.58	17.77	30
	CH6	15.29	15.16	18.24	30
	CH11	15.41	15.40	18.42	30
IEEE 802.11 n HT 40	CH3	13.37	13.47	16.43	30
	CH6	13.29	14.19	16.77	30
	CH9	13.99	13.11	16.58	30
Conclusion：PASS					

7.5 Test Data

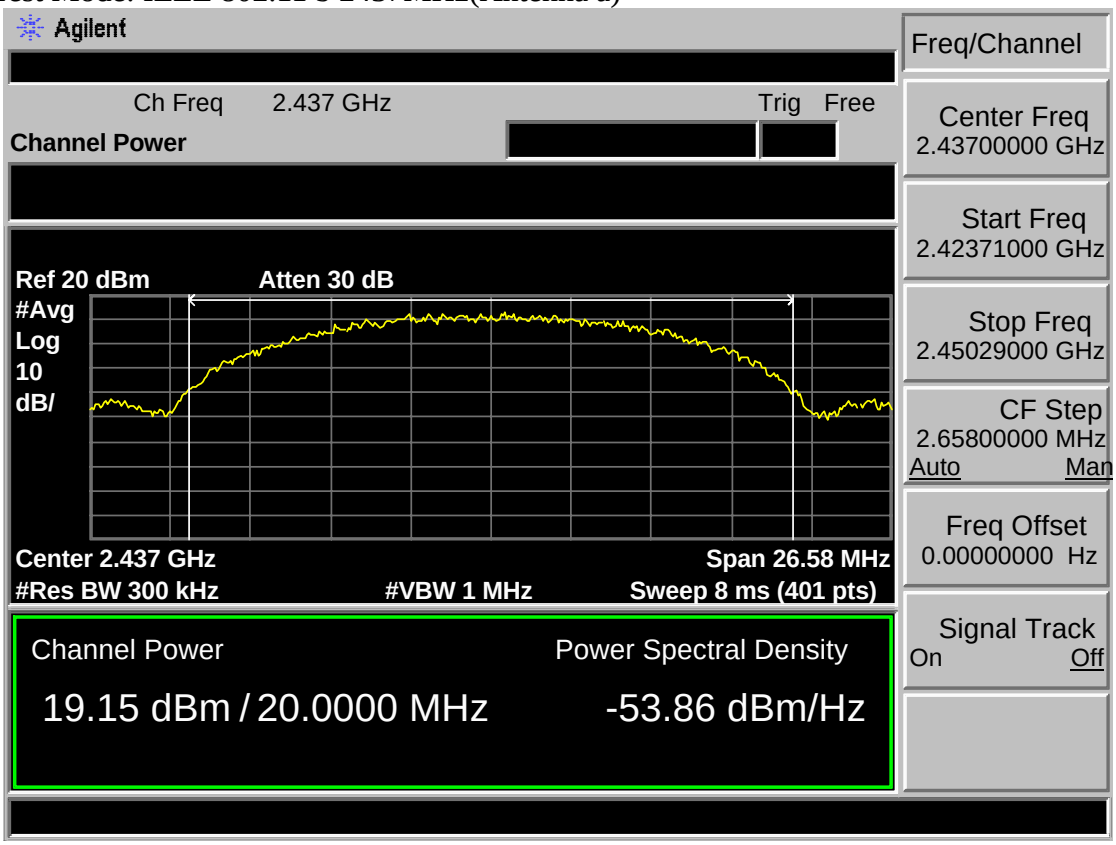
Test Mode: IEEE 802.11 b 2412MHz(Antenna a)



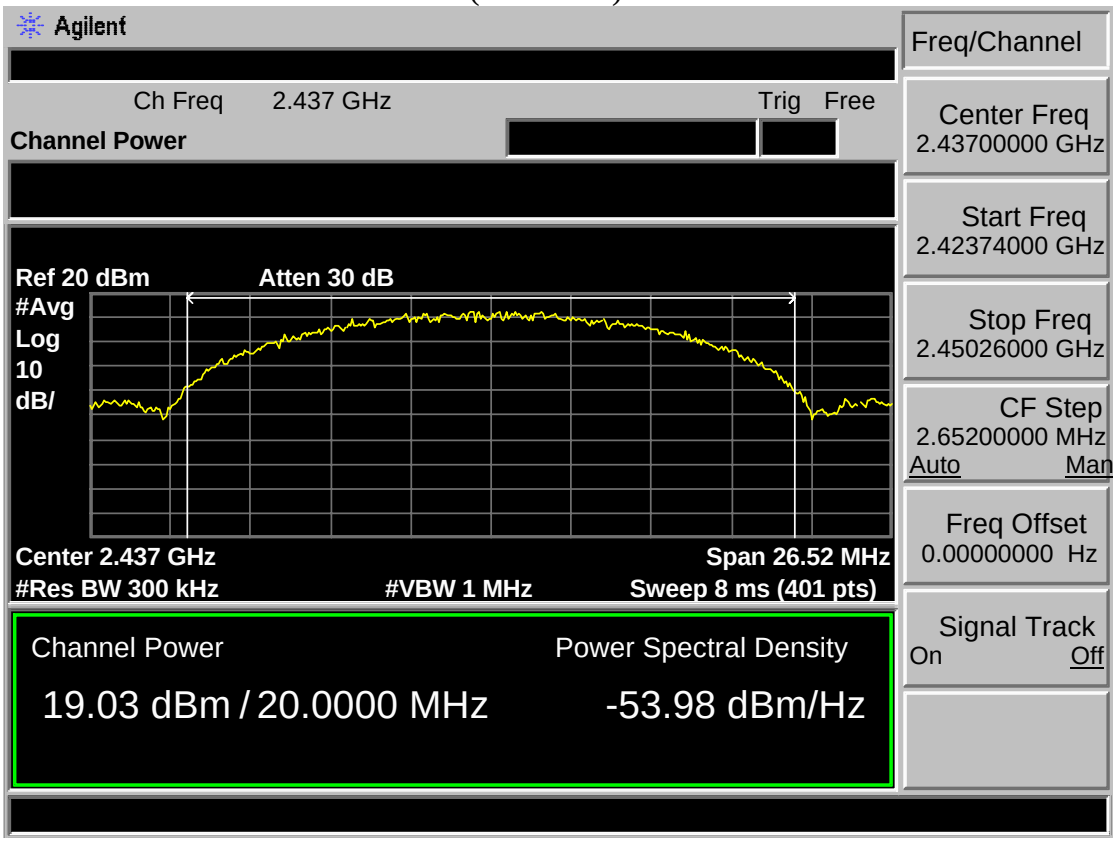
Test Mode: IEEE 802.11 b 2412MHz(Antenna b)



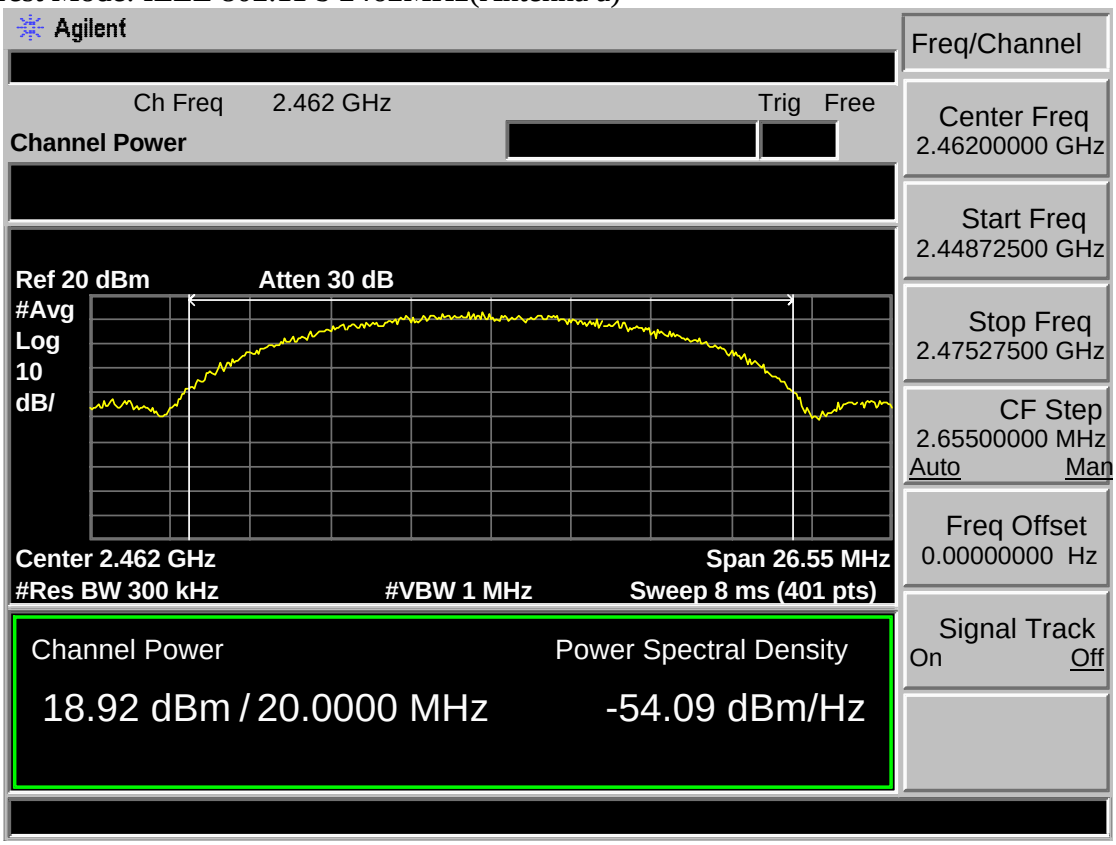
Test Mode: IEEE 802.11 b 2437MHz(Antenna a)



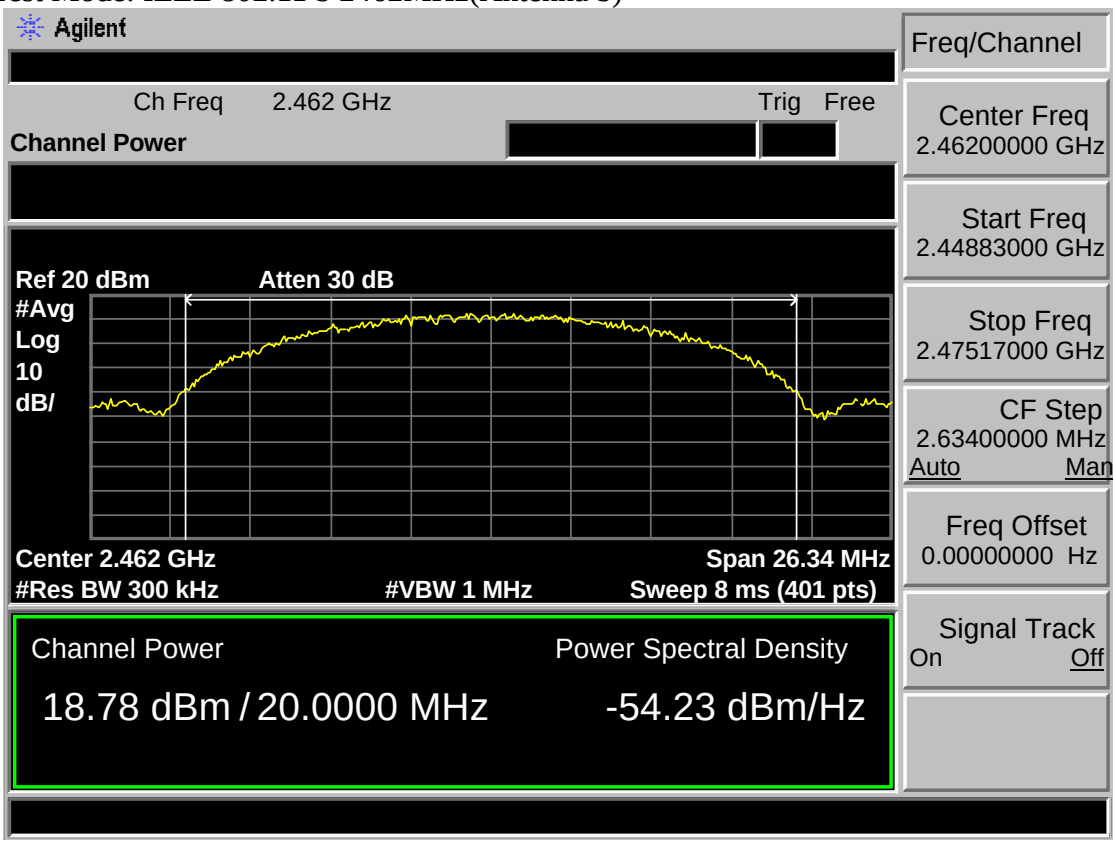
Test Mode: IEEE 802.11 b 2437MHz(Antenna b)



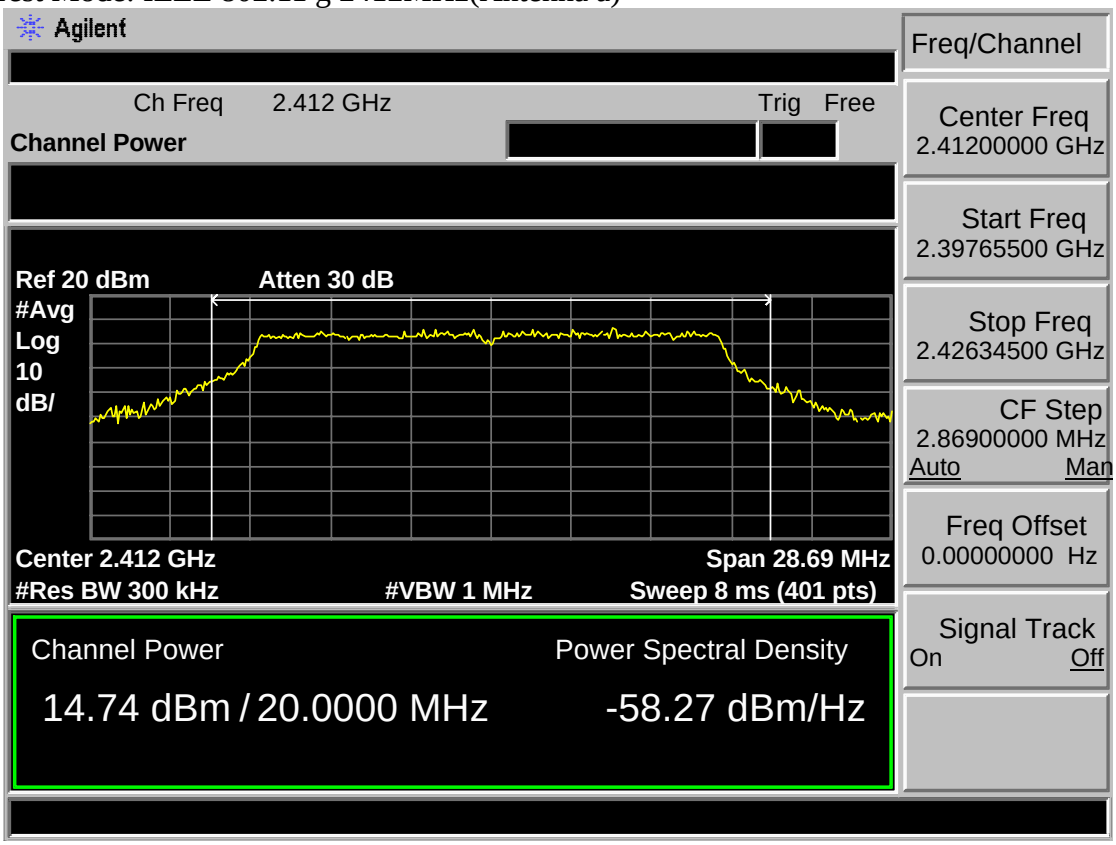
Test Mode: IEEE 802.11 b 2462MHz(Antenna a)



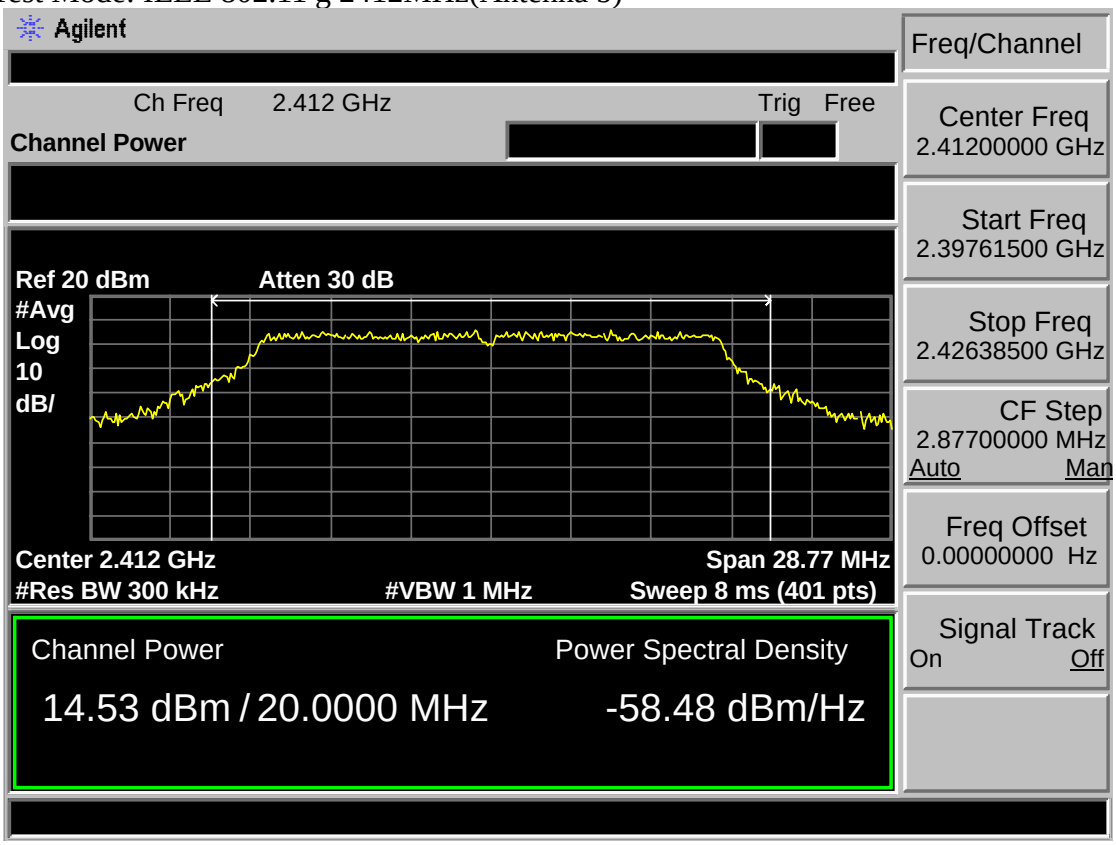
Test Mode: IEEE 802.11 b 2462MHz(Antenna b)



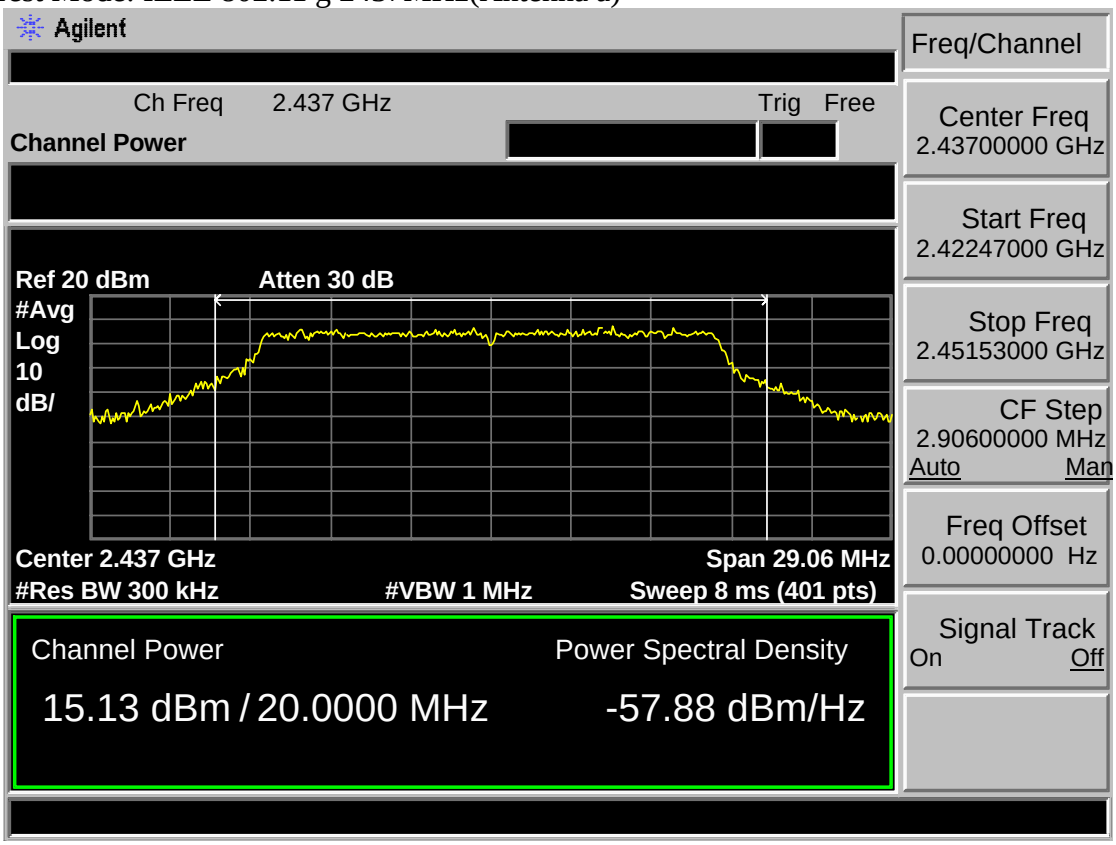
Test Mode: IEEE 802.11 g 2412MHz(Antenna a)



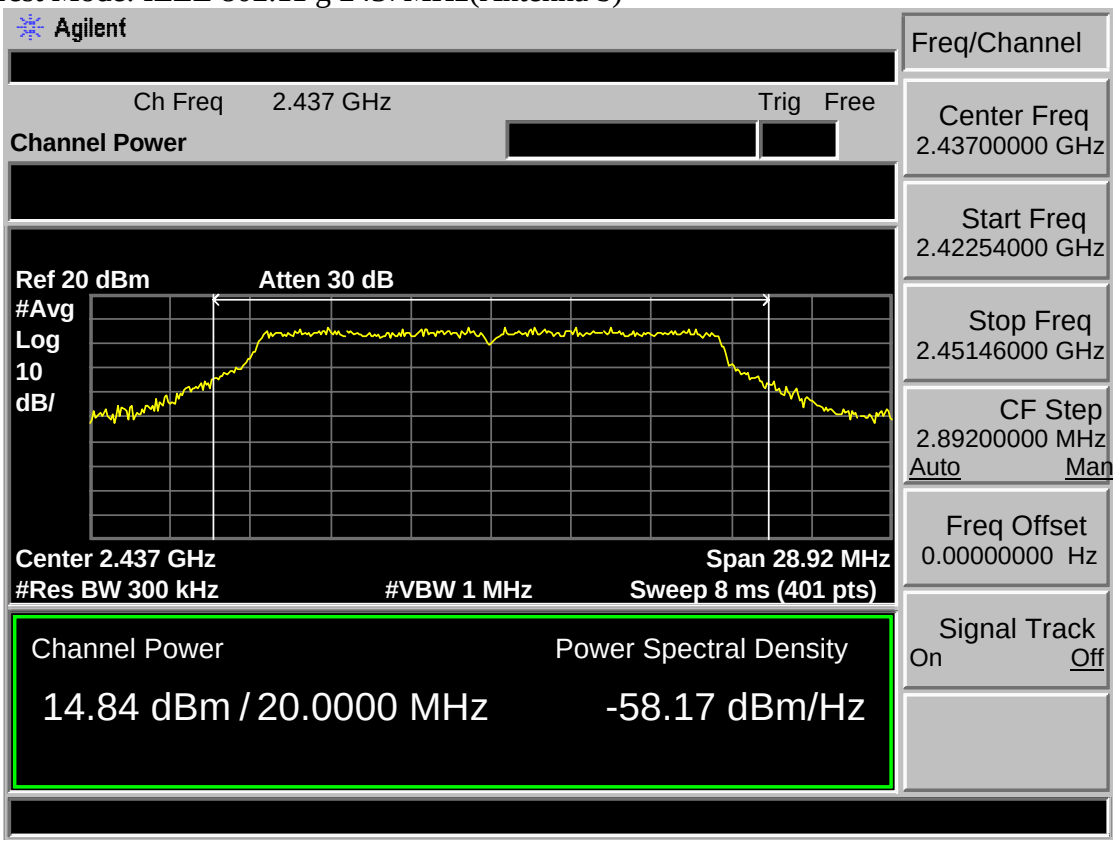
Test Mode: IEEE 802.11 g 2412MHz(Antenna b)



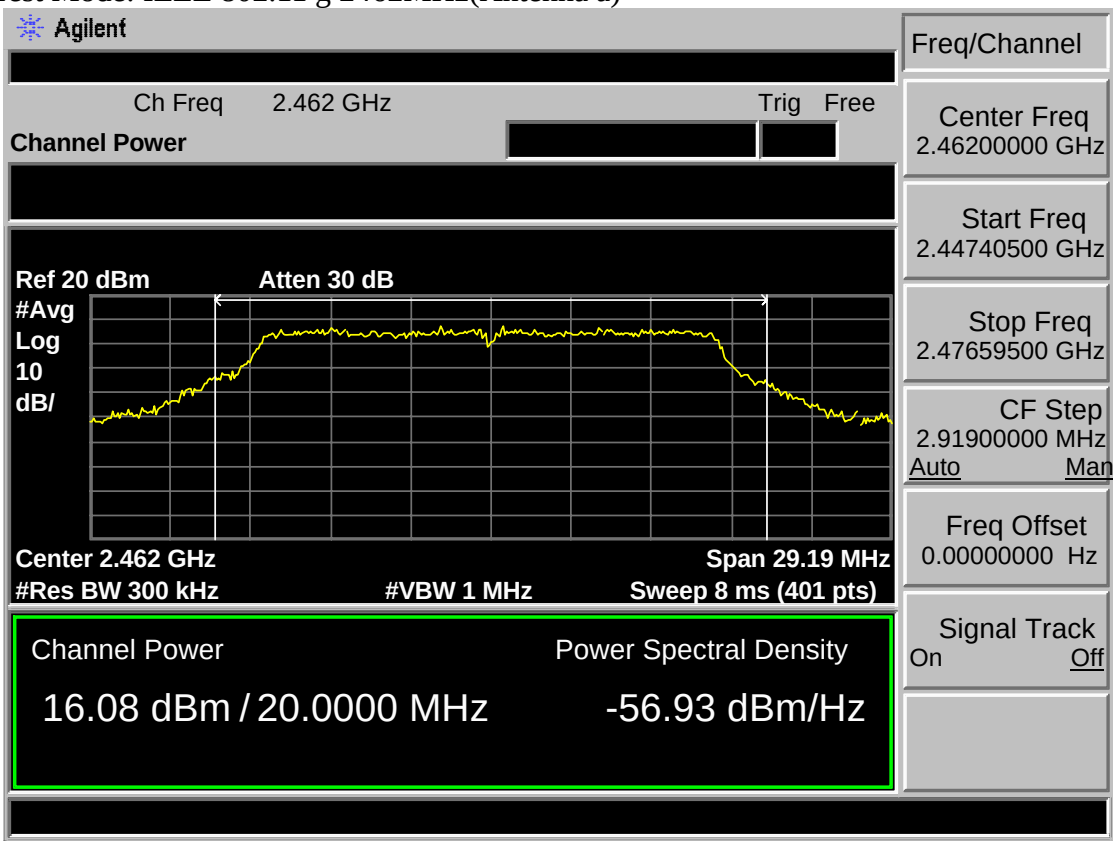
Test Mode: IEEE 802.11 g 2437MHz(Antenna a)



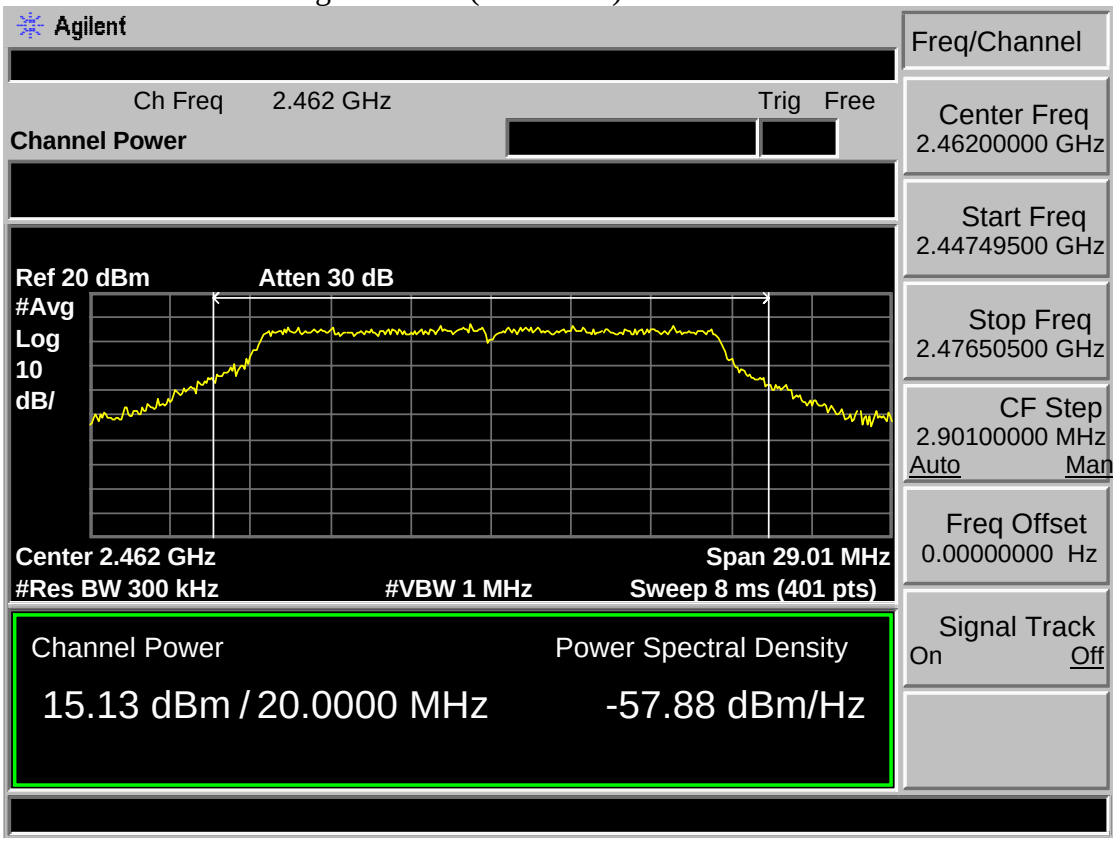
Test Mode: IEEE 802.11 g 2437MHz(Antenna b)



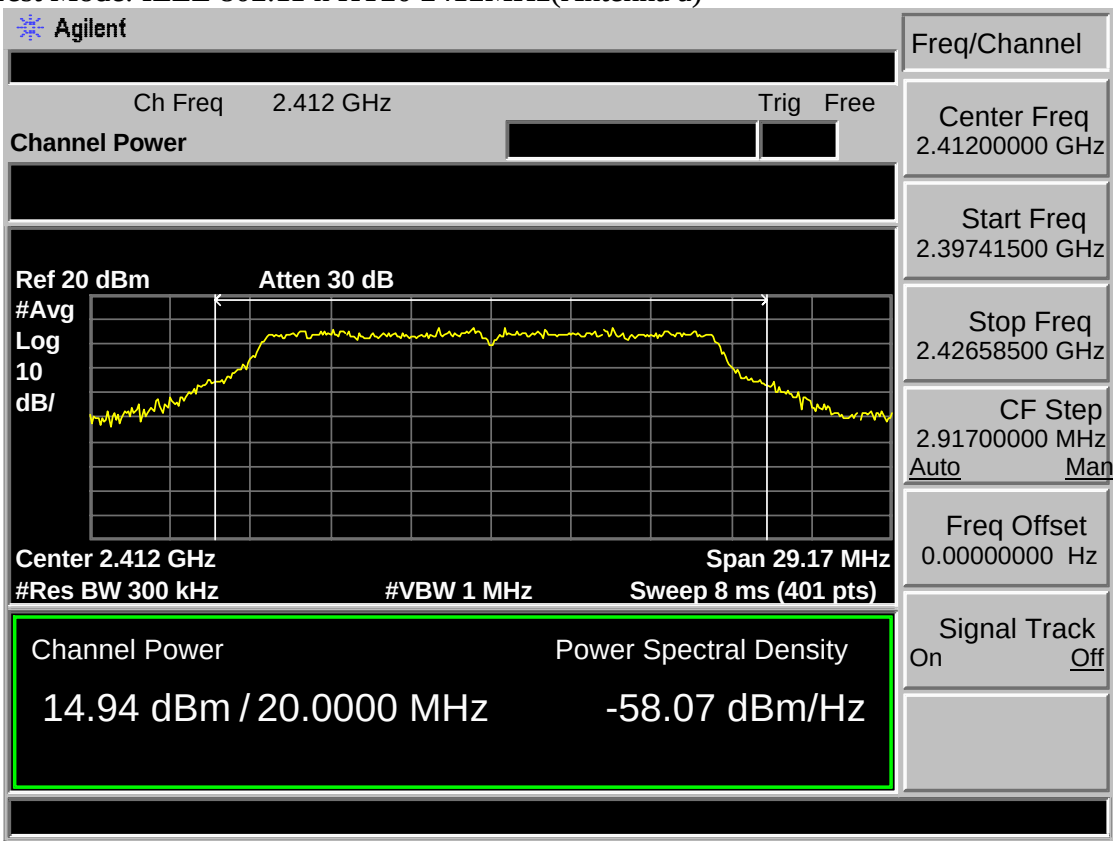
Test Mode: IEEE 802.11 g 2462MHz(Antenna a)



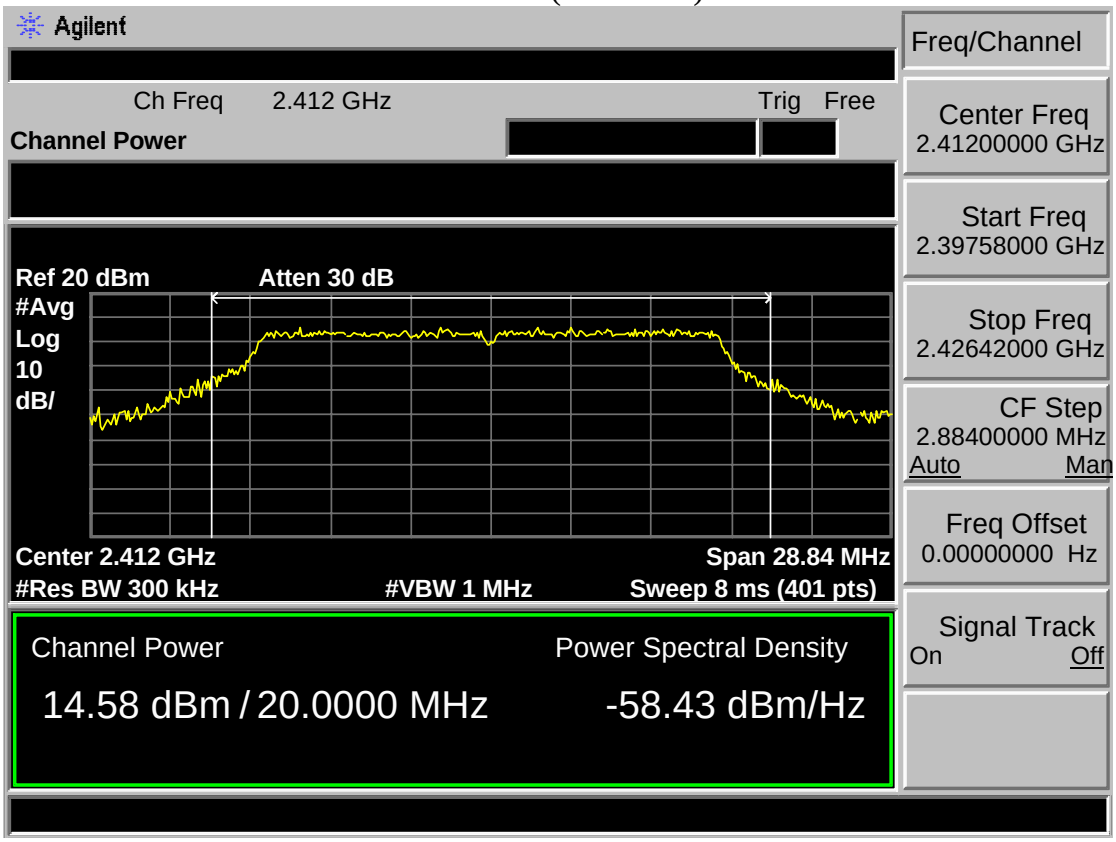
Test Mode: IEEE 802.11 g 2462MHz(Antenna b)



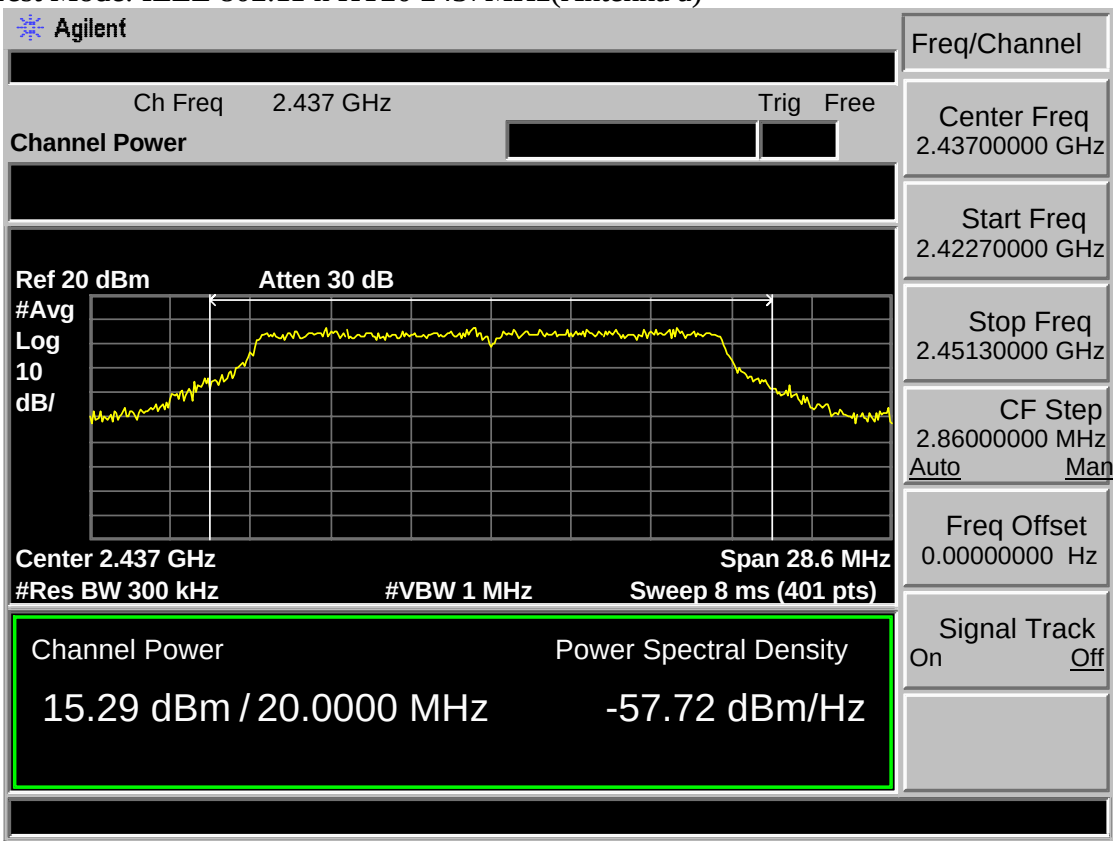
Test Mode: IEEE 802.11 n HT20 2412MHz(Antenna a)



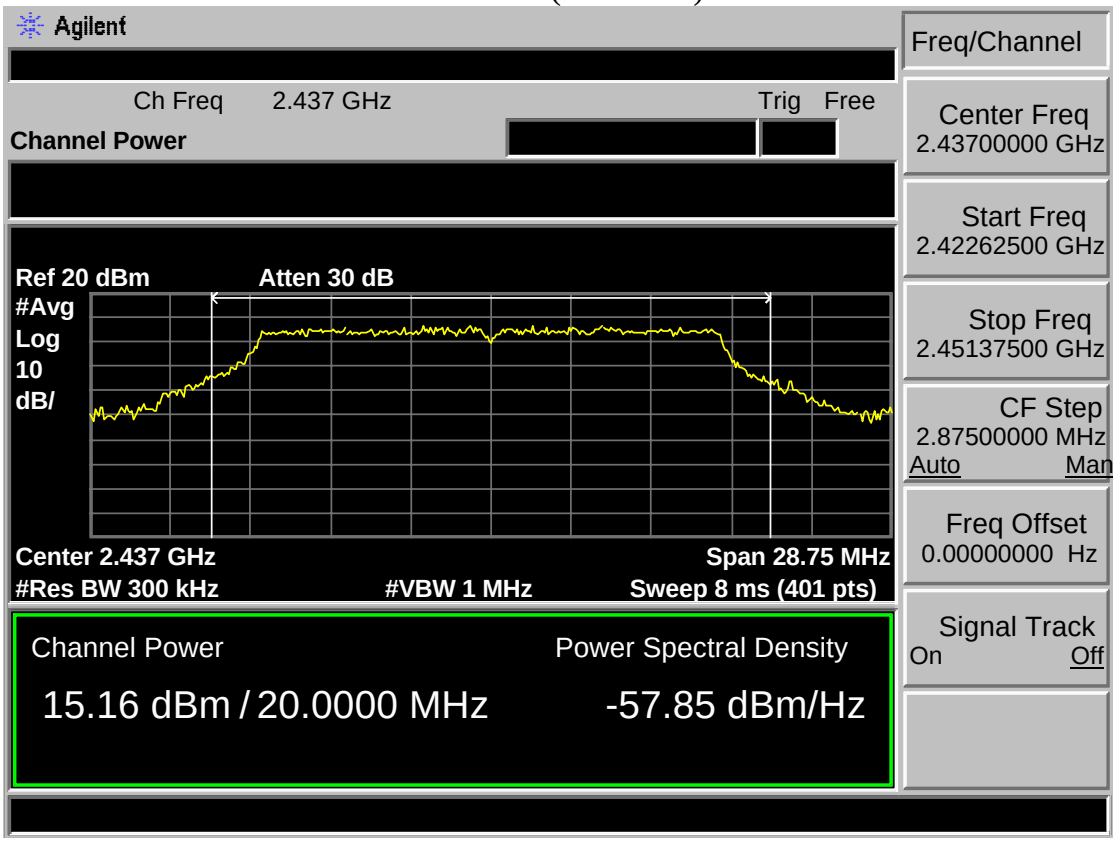
Test Mode: IEEE 802.11 n HT20 2412MHz(Antenna b)



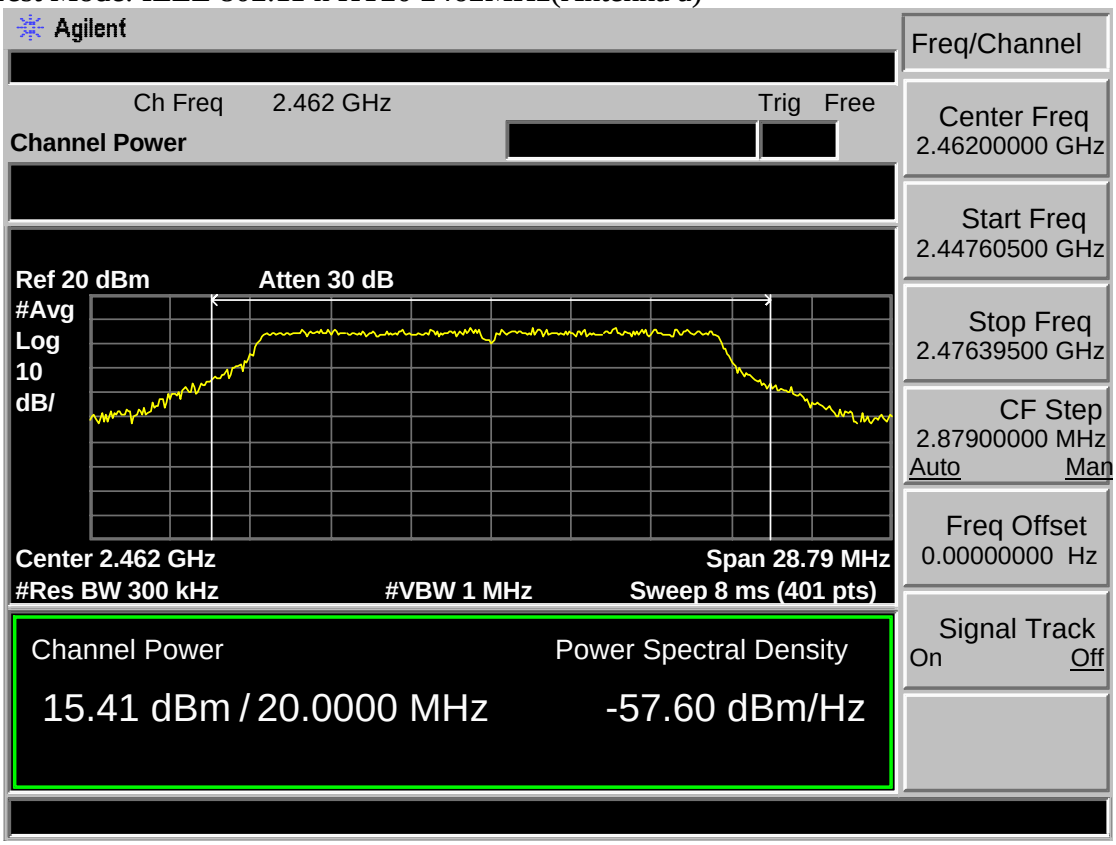
Test Mode: IEEE 802.11 n HT20 2437MHz(Antenna a)



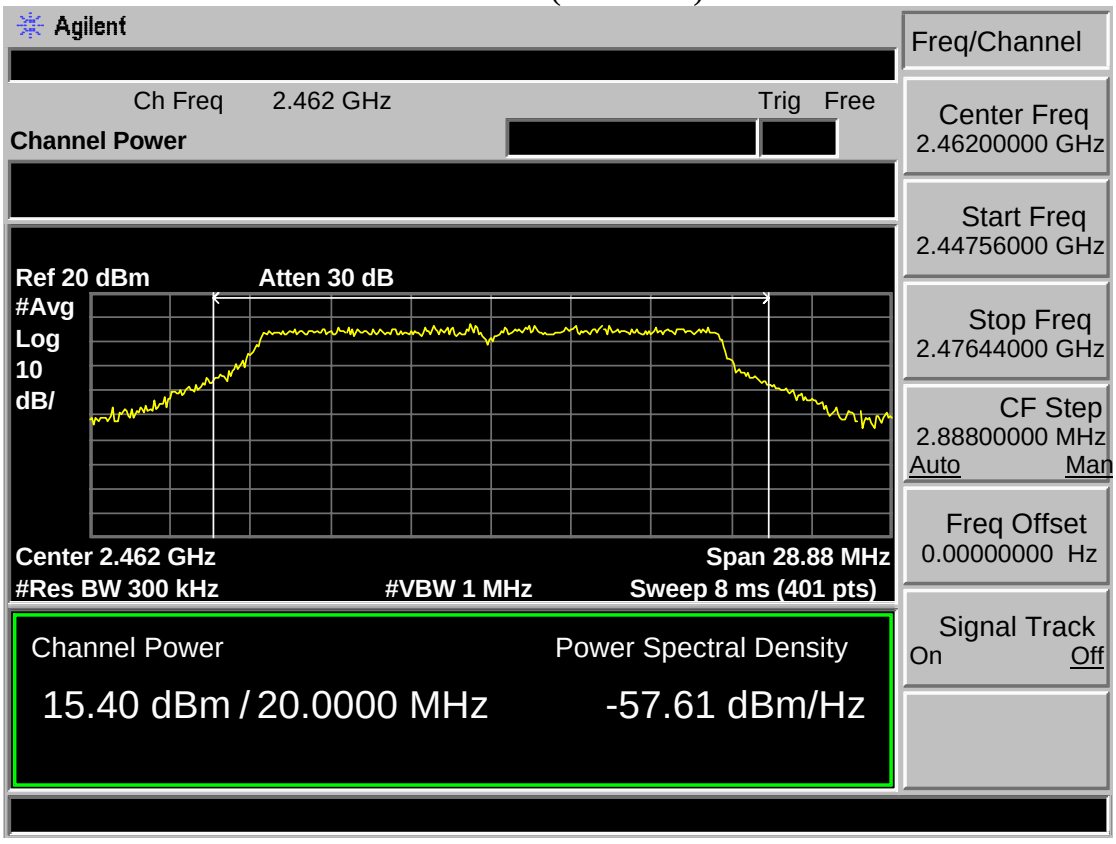
Test Mode: IEEE 802.11 n HT20 2437MHz(Antenna b)



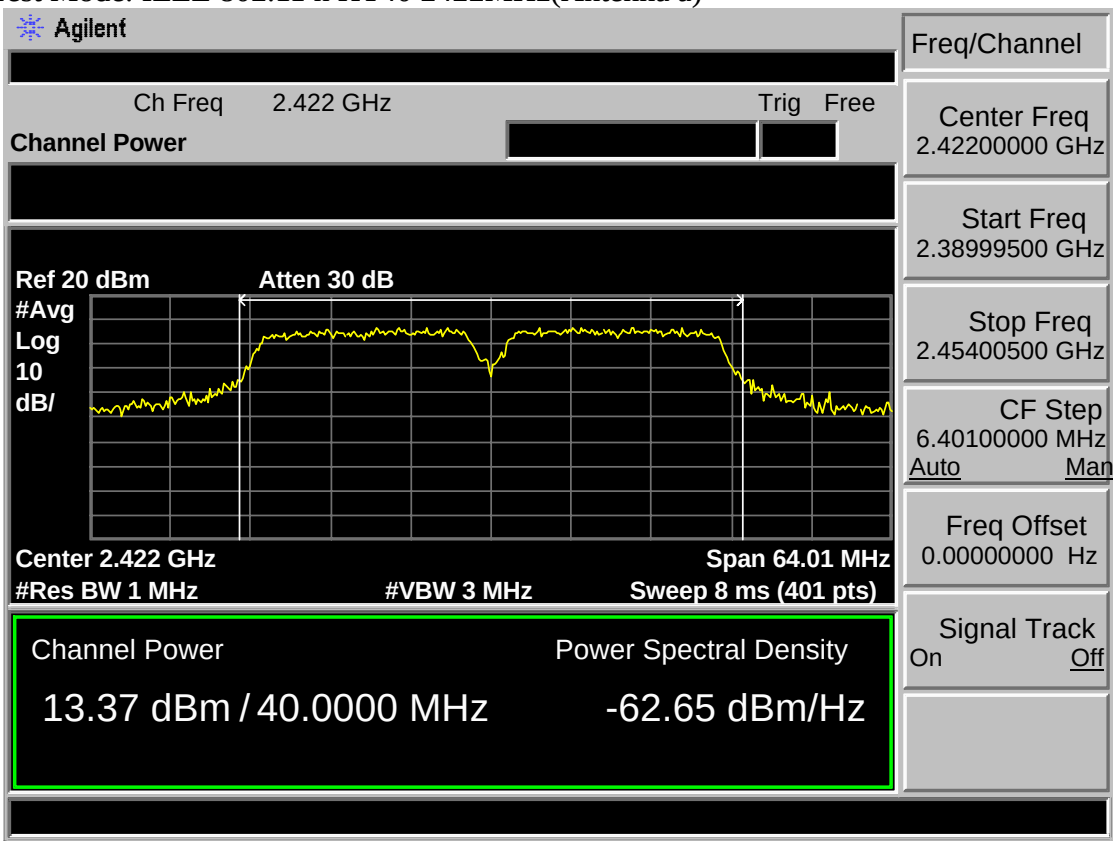
Test Mode: IEEE 802.11 n HT20 2462MHz(Antenna a)



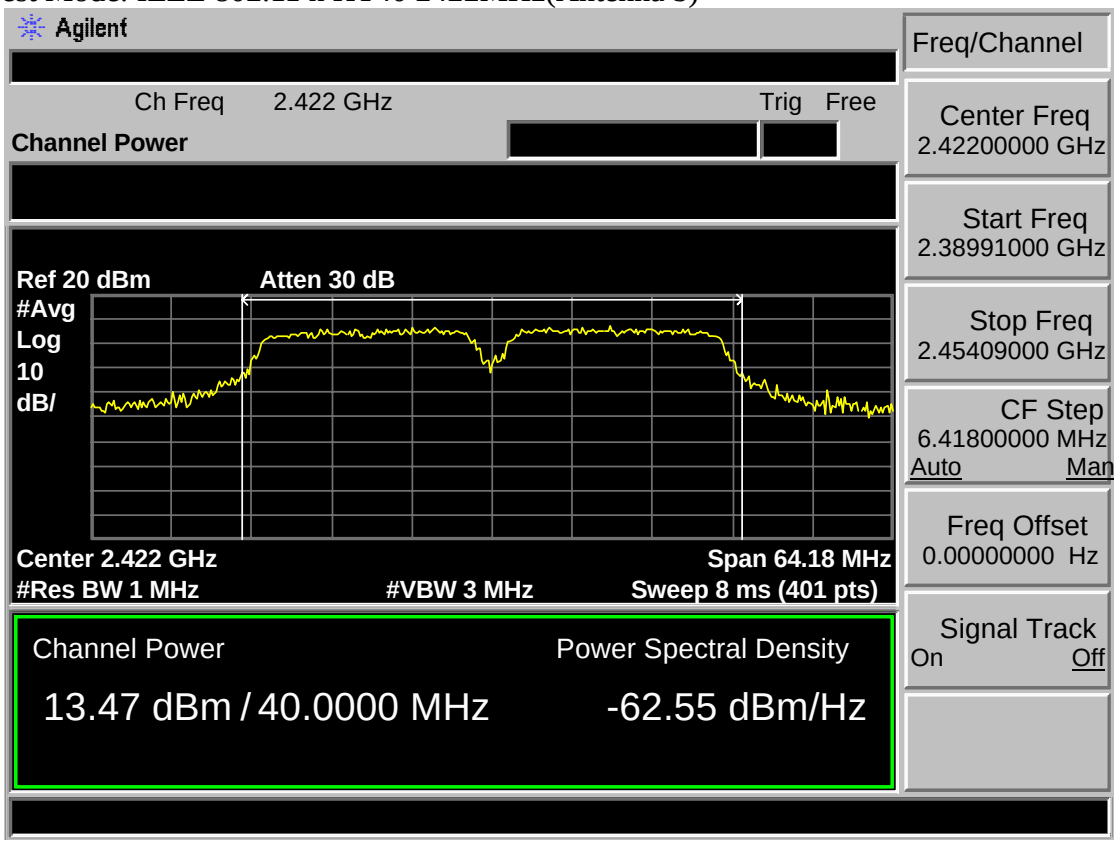
Test Mode: IEEE 802.11 n HT20 2462MHz(Antenna b)



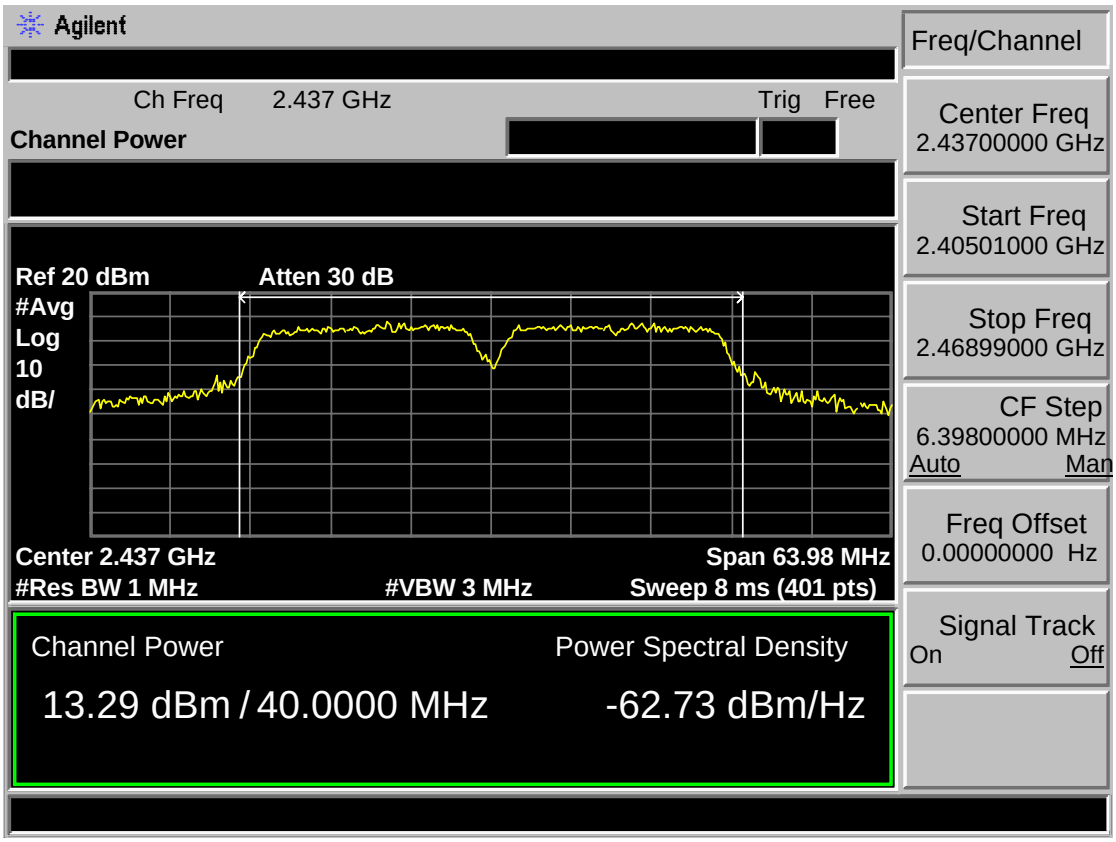
Test Mode: IEEE 802.11 n HT40 2422MHz(Antenna a)



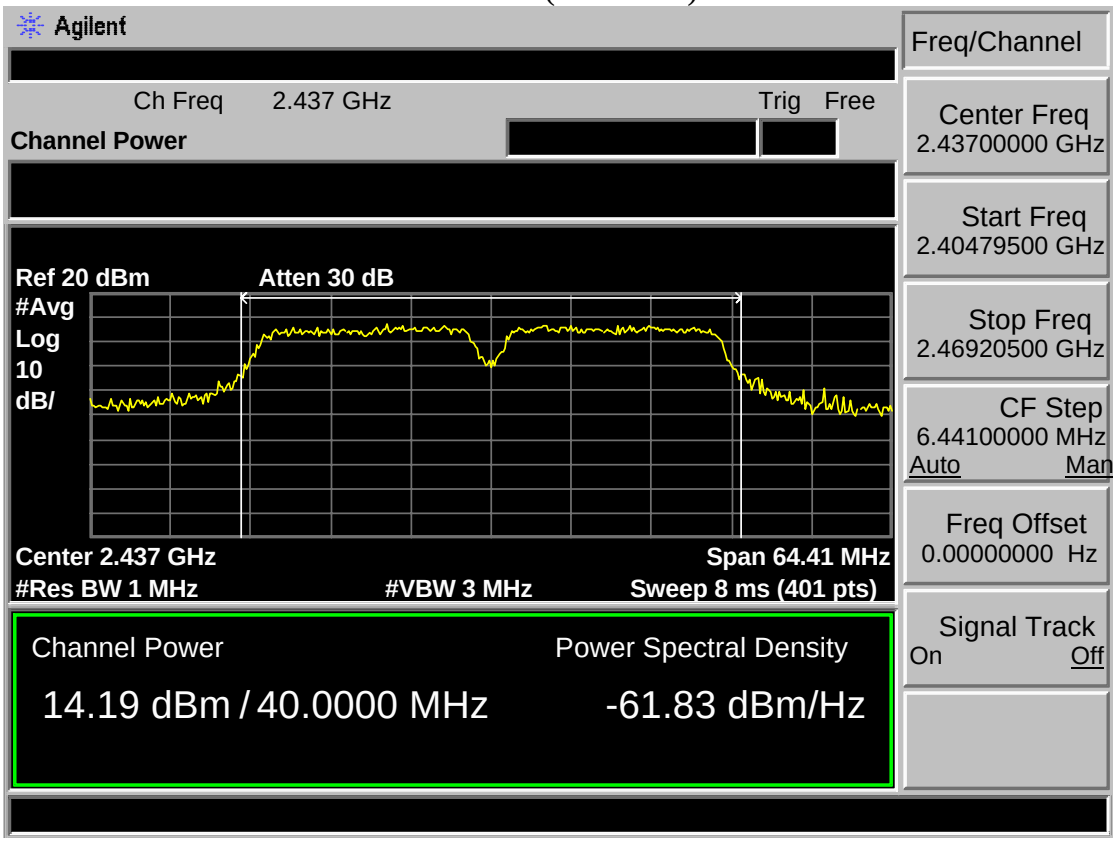
Test Mode: IEEE 802.11 n HT40 2422MHz(Antenna b)



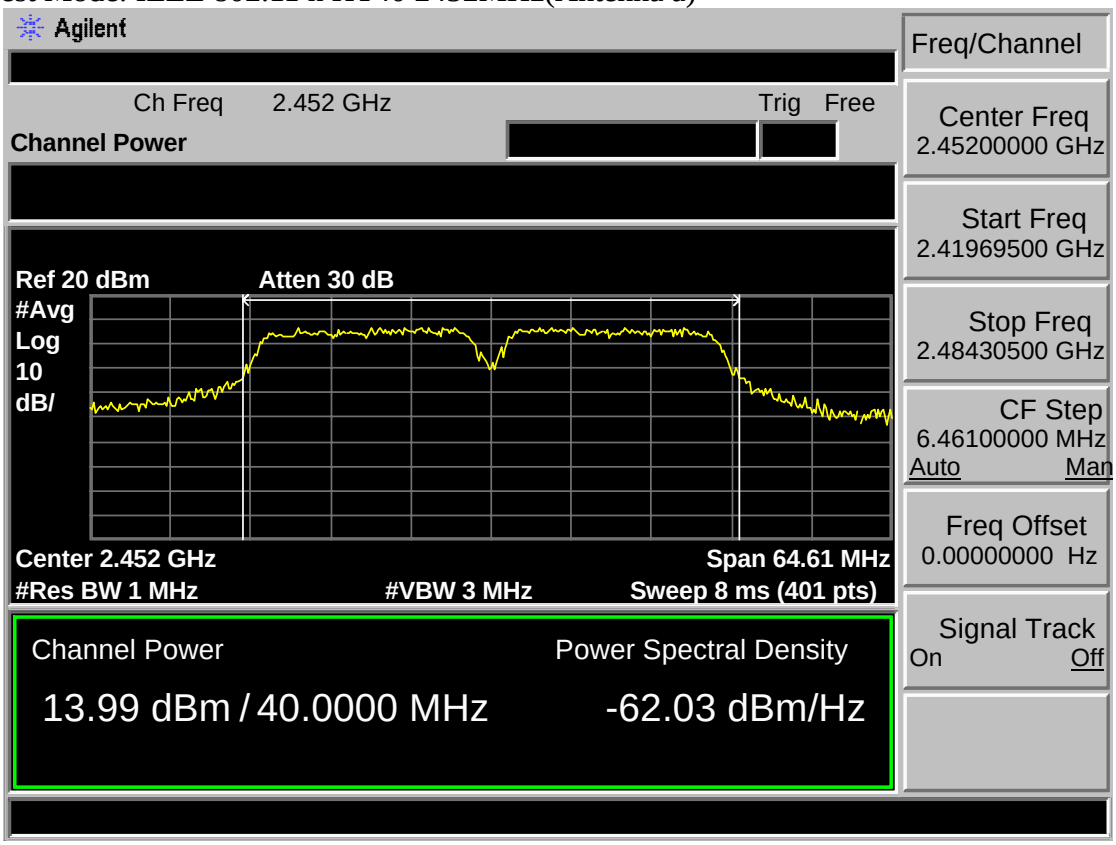
Test Mode: IEEE 802.11 n HT40 2437MHz(Antenna a)



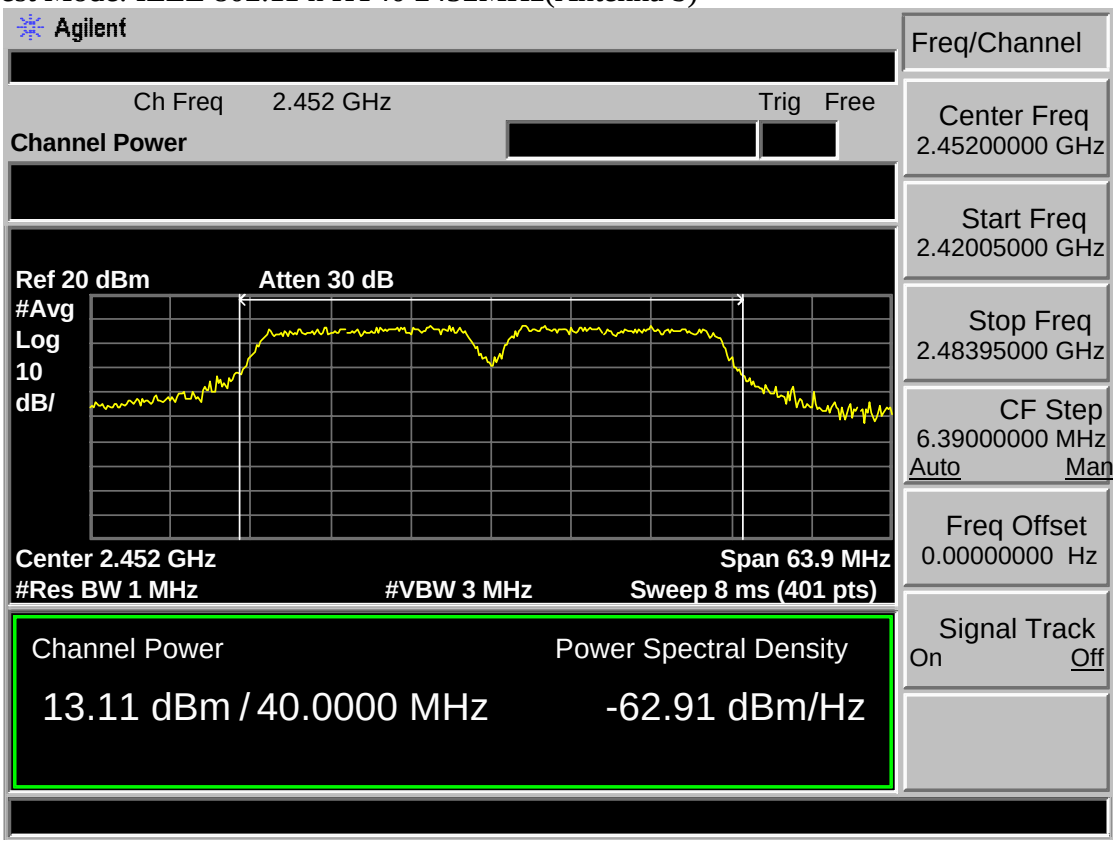
Test Mode: IEEE 802.11 n HT40 2437MHz(Antenna b)



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.

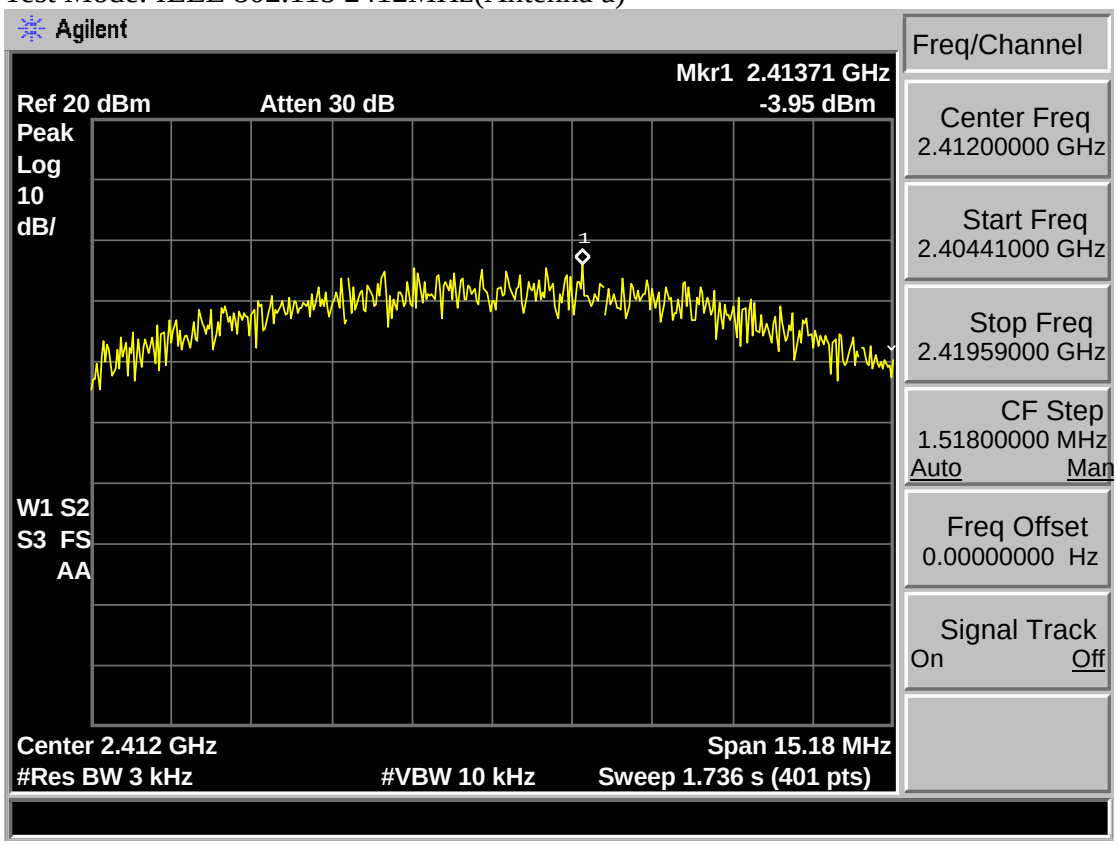
2, Follow the test procedure as described in KDB 558074
(1). Set analyzer center frequency to DTS channel center frequency.
(2). Set the span to 1.5 times the DTS bandwidth.
(3). Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
(4). Set the VBW ≥ 3 RBW.
(5). Detector = peak.
(6). Sweep time = auto couple.
(7). 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

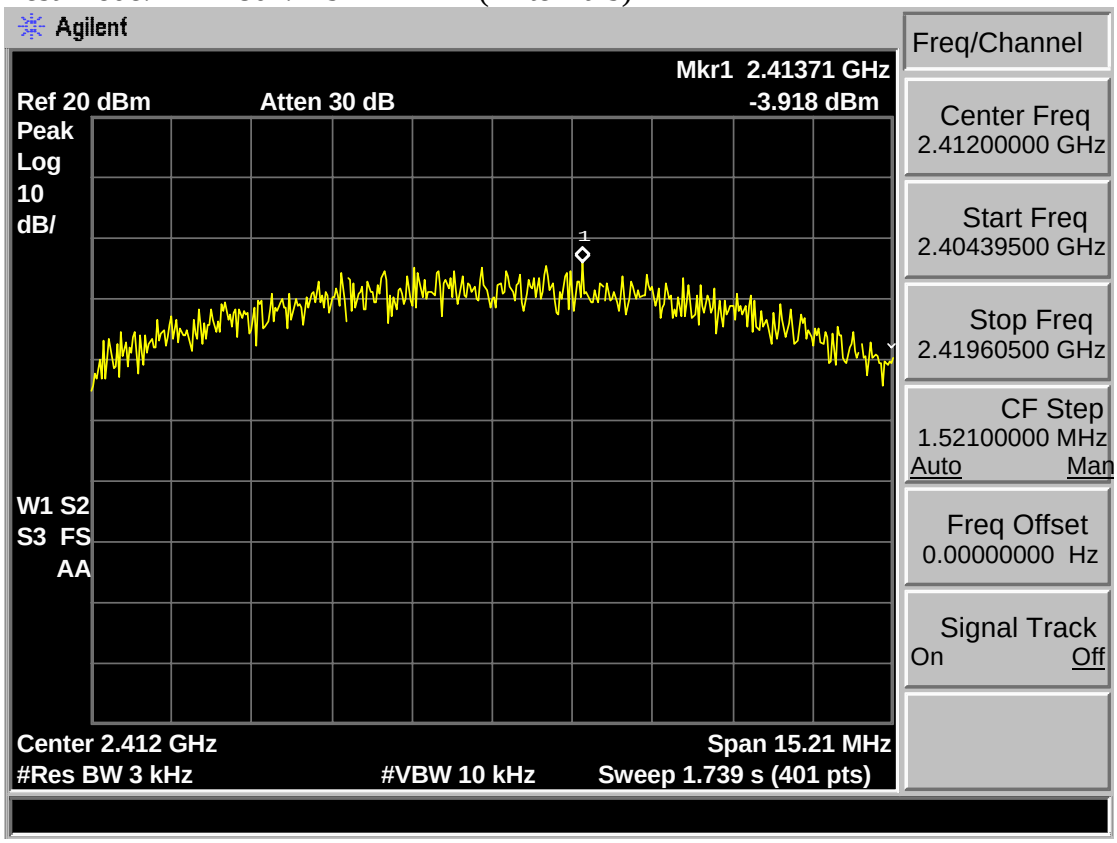
EUT: LED TV					
M/N: WD55UT4490					
Test date: 2016-09-30		Test site: 3m Chamber			Tested by: Tony Tang
Pass					
Test Mode	CH	Power density （dBm/3kHz）			Limit (dBm/3kHz)
		ANT a	ANT b	Total	
IEEE 802.11 b	CH1	-3.95	-3.92	/	8
	CH6	-3.99	-4.11	/	8
	CH11	-3.62	-3.86	/	8
IEEE 802.11 g	CH1	-11.79	-11.85	/	8
	CH6	-11.02	-11.29	/	8
	CH11	-10.90	-11.12	/	8
IEEE 802.11 n HT 20	CH1	-11.95	-11.75	-8.84	8
	CH6	-11.10	-11.19	-8.13	8
	CH11	-11.05	-10.92	-7.97	8
IEEE 802.11 n HT 40	CH3	-14.98	-14.54	-11.74	8
	CH6	-14.27	-14.53	-11.39	8
	CH9	-14.56	-14.76	-11.65	8
Conclusion：PASS					

8.4 Test Data

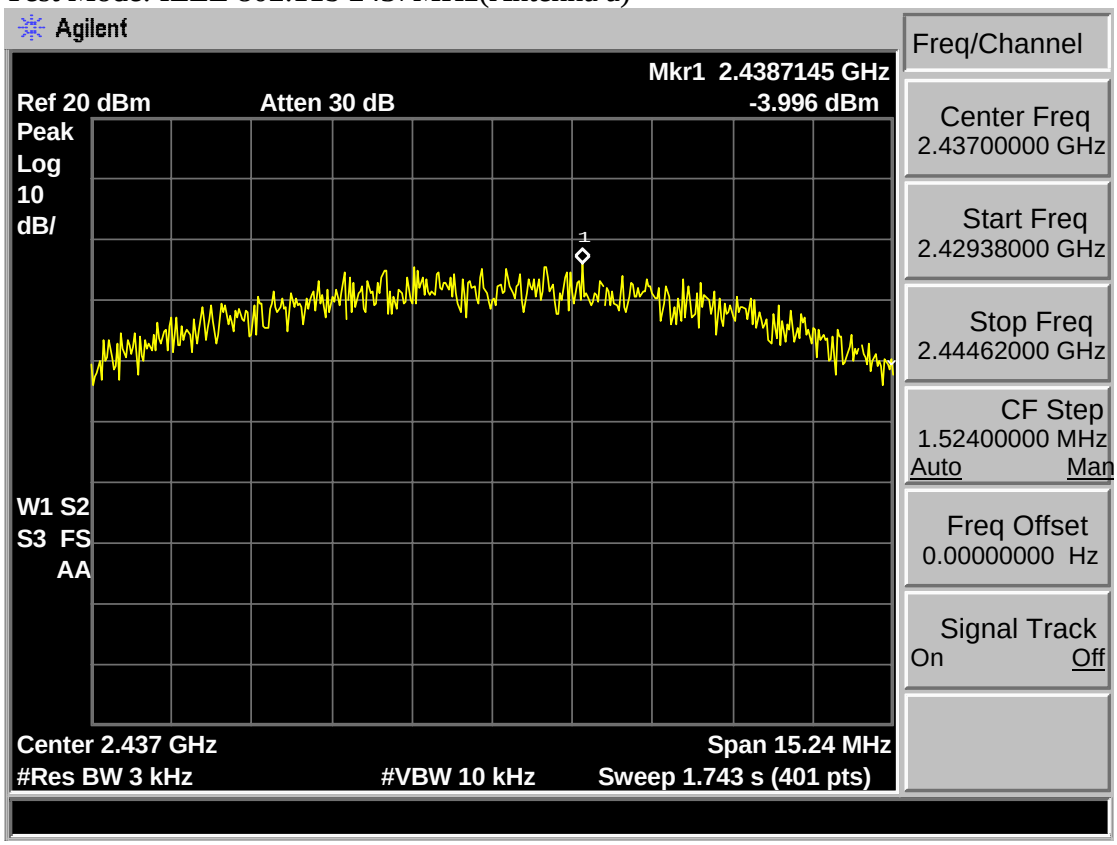
Test Mode: IEEE 802.11b 2412MHz(Antenna a)



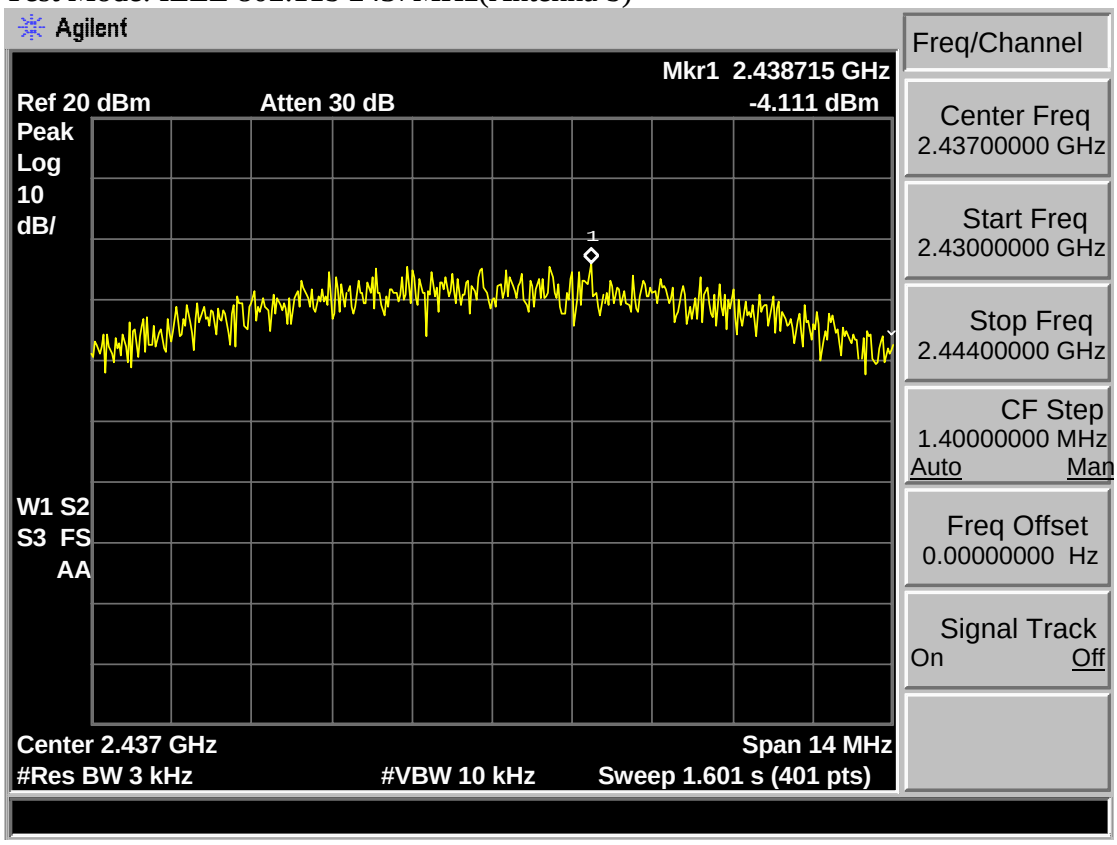
Test Mode: IEEE 802.11b 2412MHz(Antenna b)



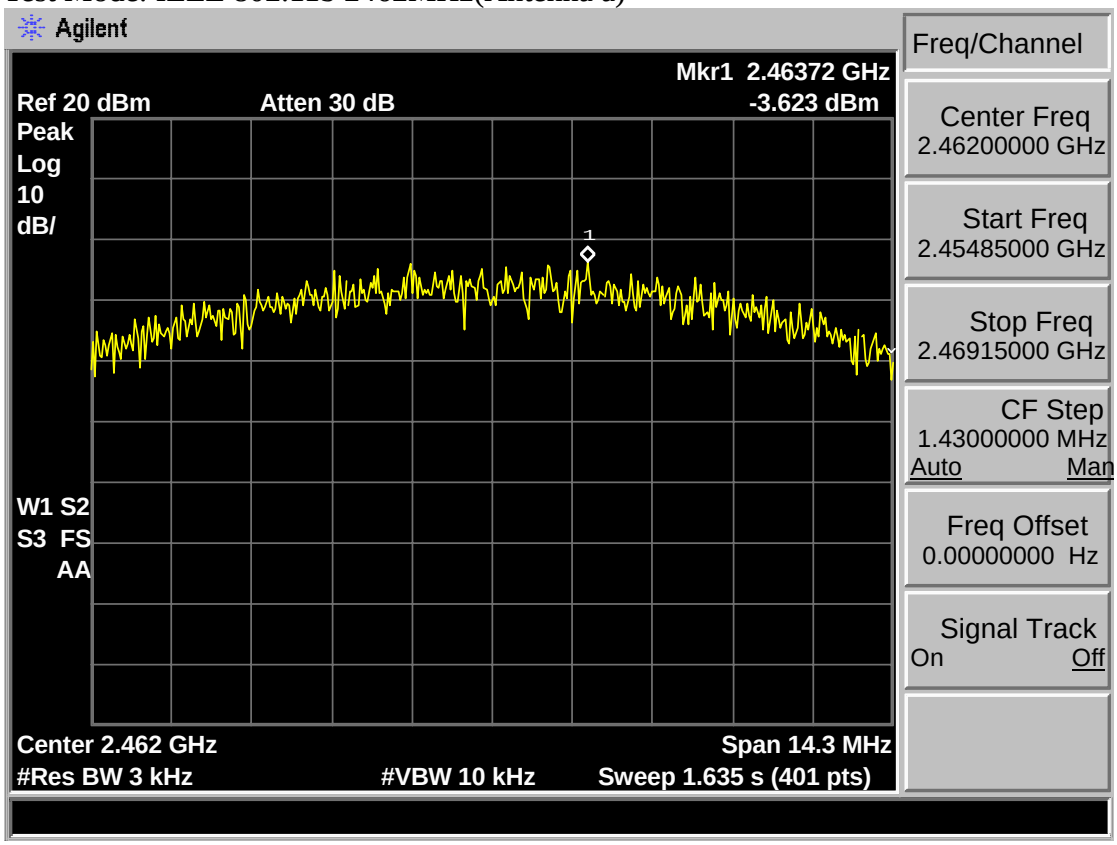
Test Mode: IEEE 802.11b 2437MHz(Antenna a)



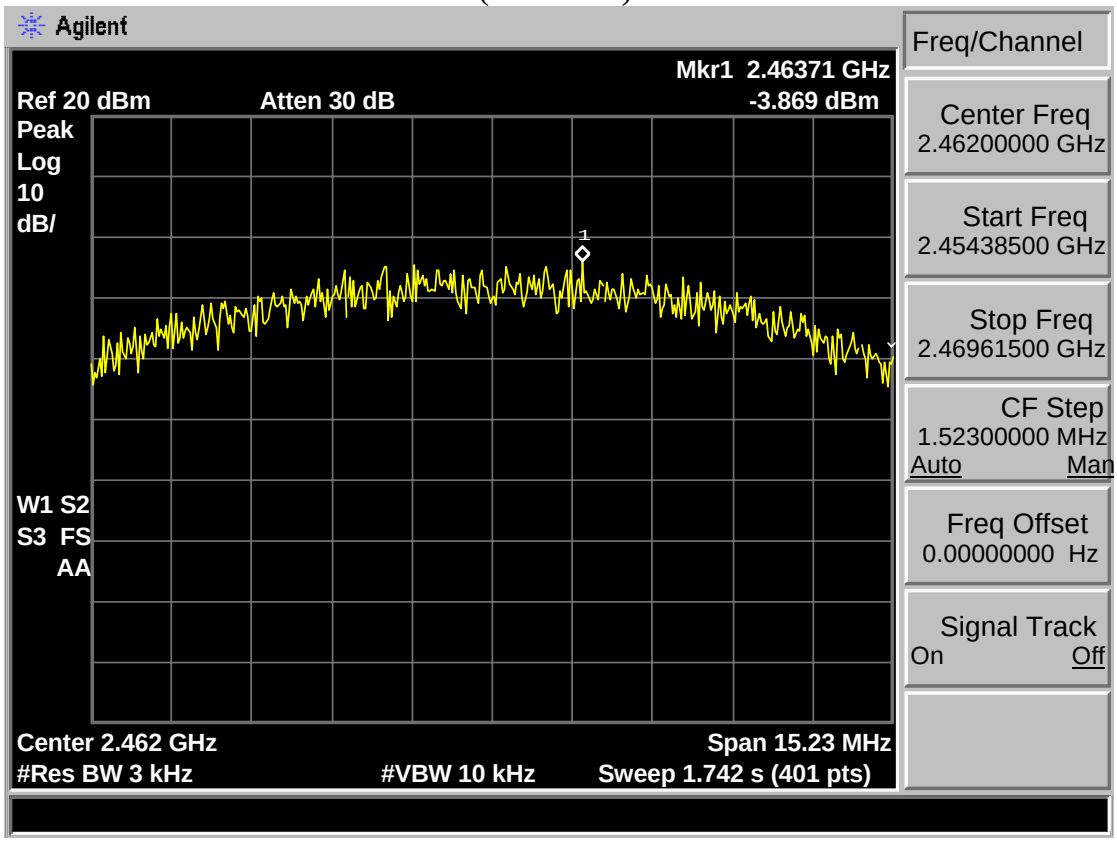
Test Mode: IEEE 802.11b 2437MHz(Antenna b)



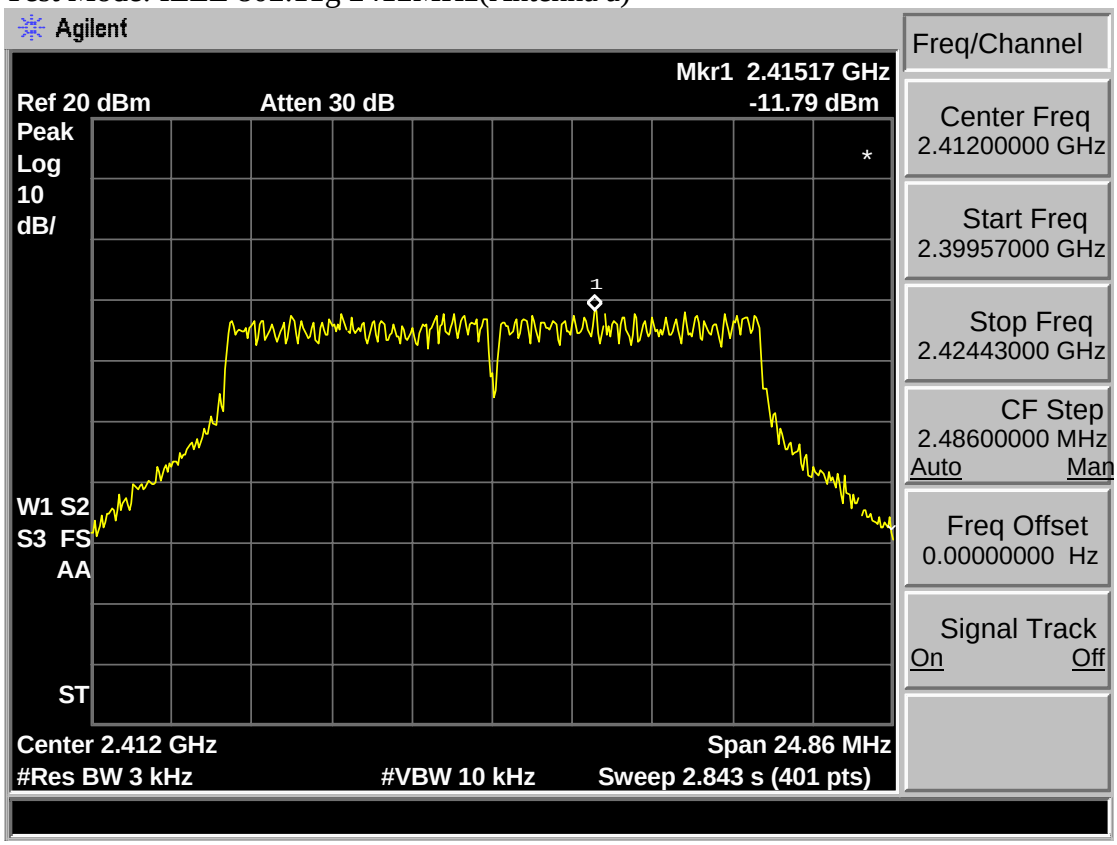
Test Mode: IEEE 802.11b 2462MHz(Antenna a)



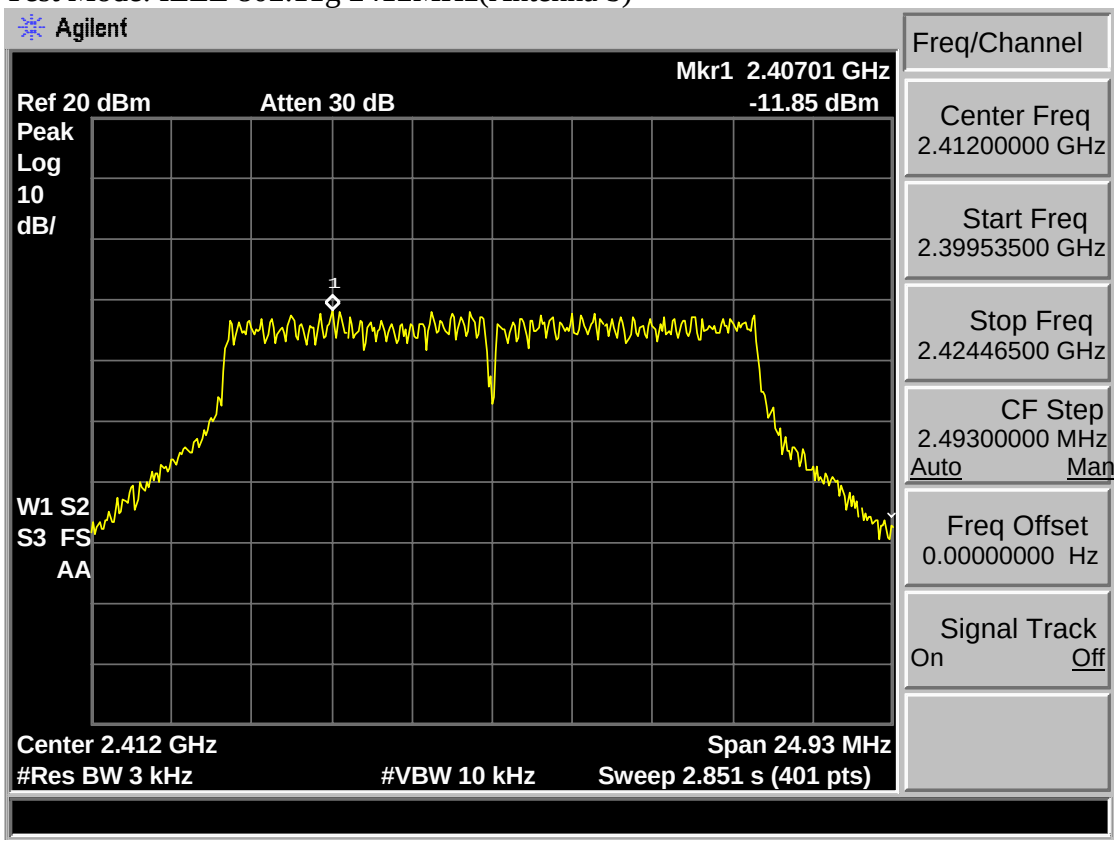
Test Mode: IEEE 802.11b 2462MHz(Antenna b)



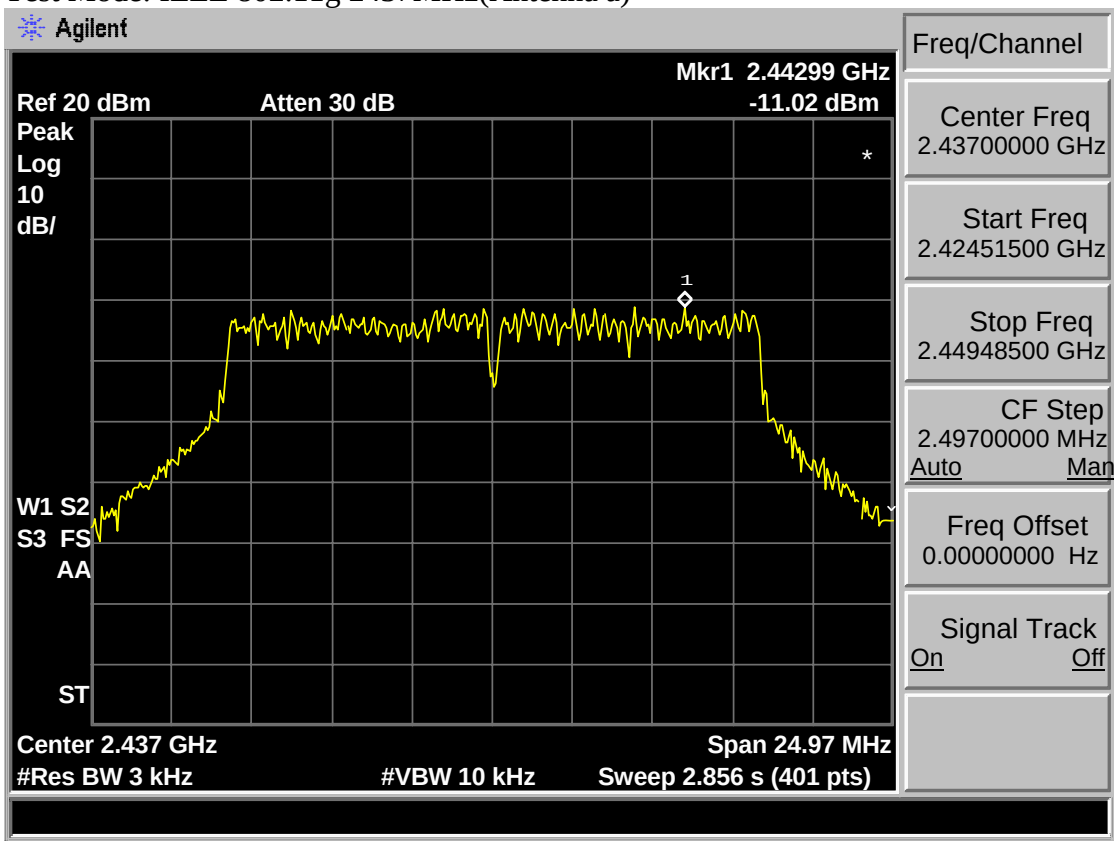
Test Mode: IEEE 802.11g 2412MHz(Antenna a)



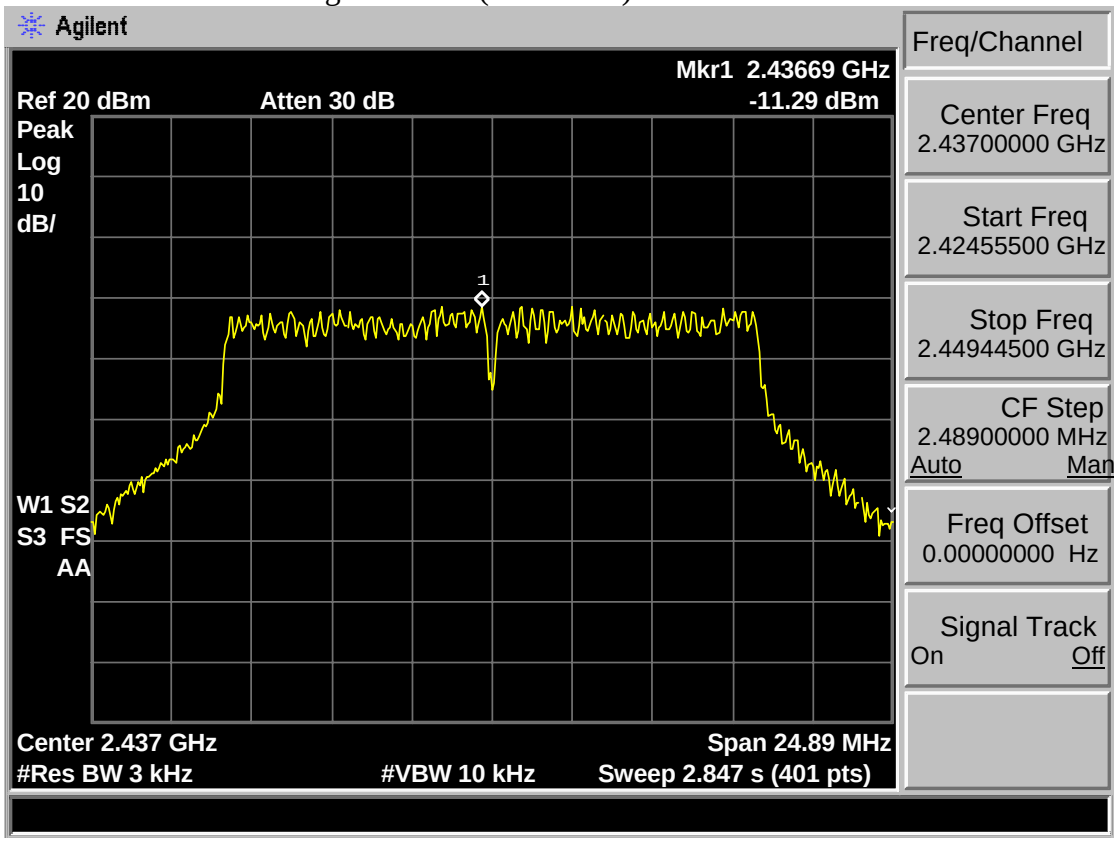
Test Mode: IEEE 802.11g 2412MHz(Antenna b)



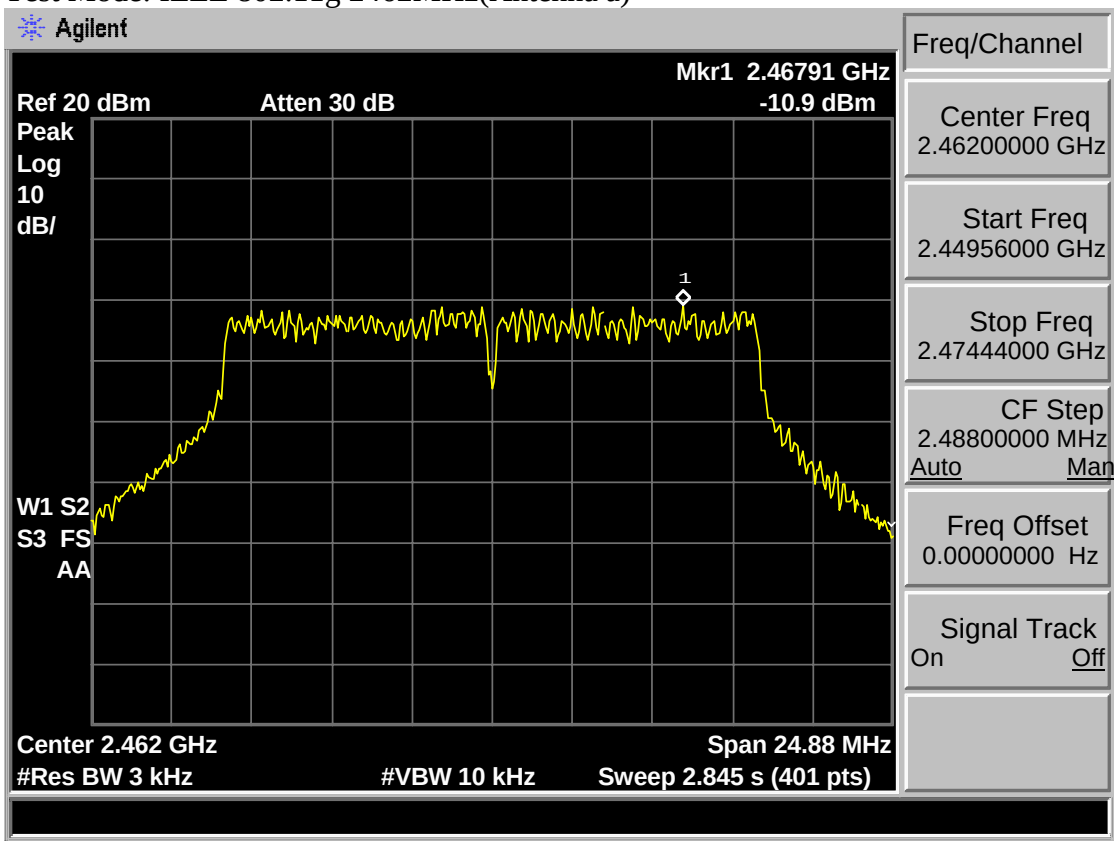
Test Mode: IEEE 802.11g 2437MHz(Antenna a)



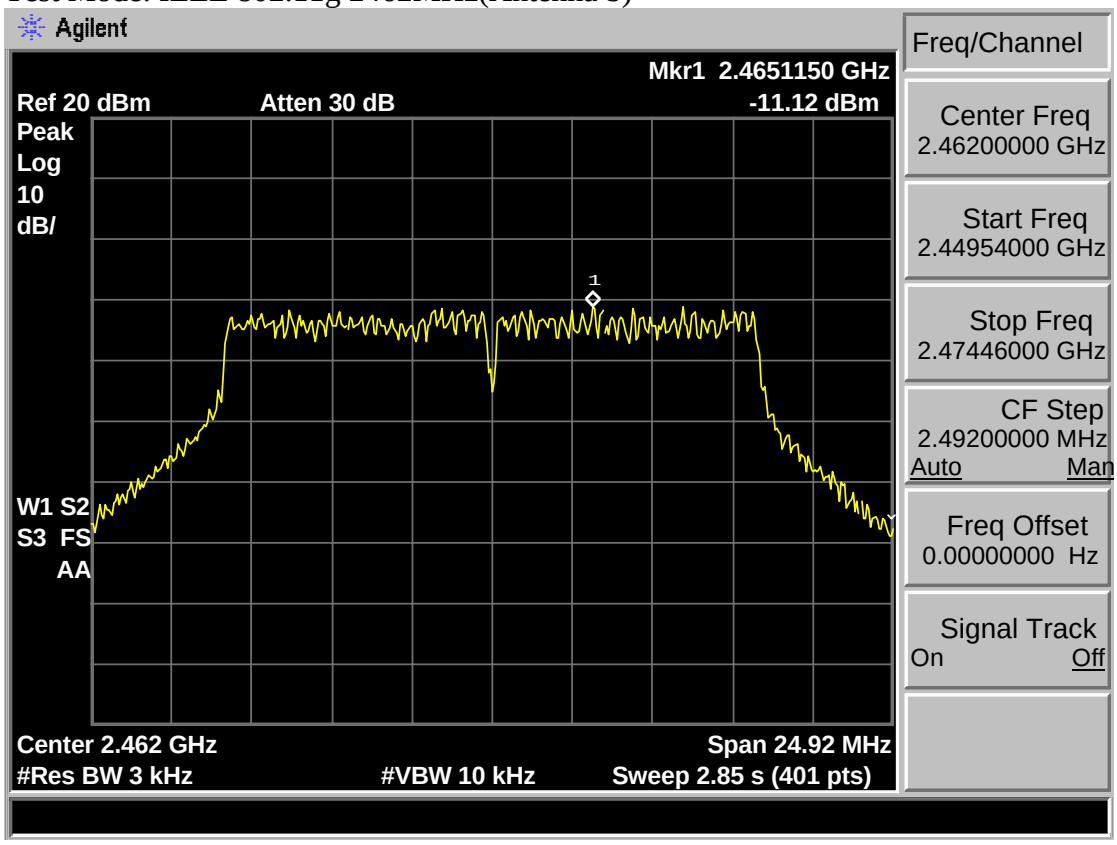
Test Mode: IEEE 802.11g 2437MHz(Antenna b)



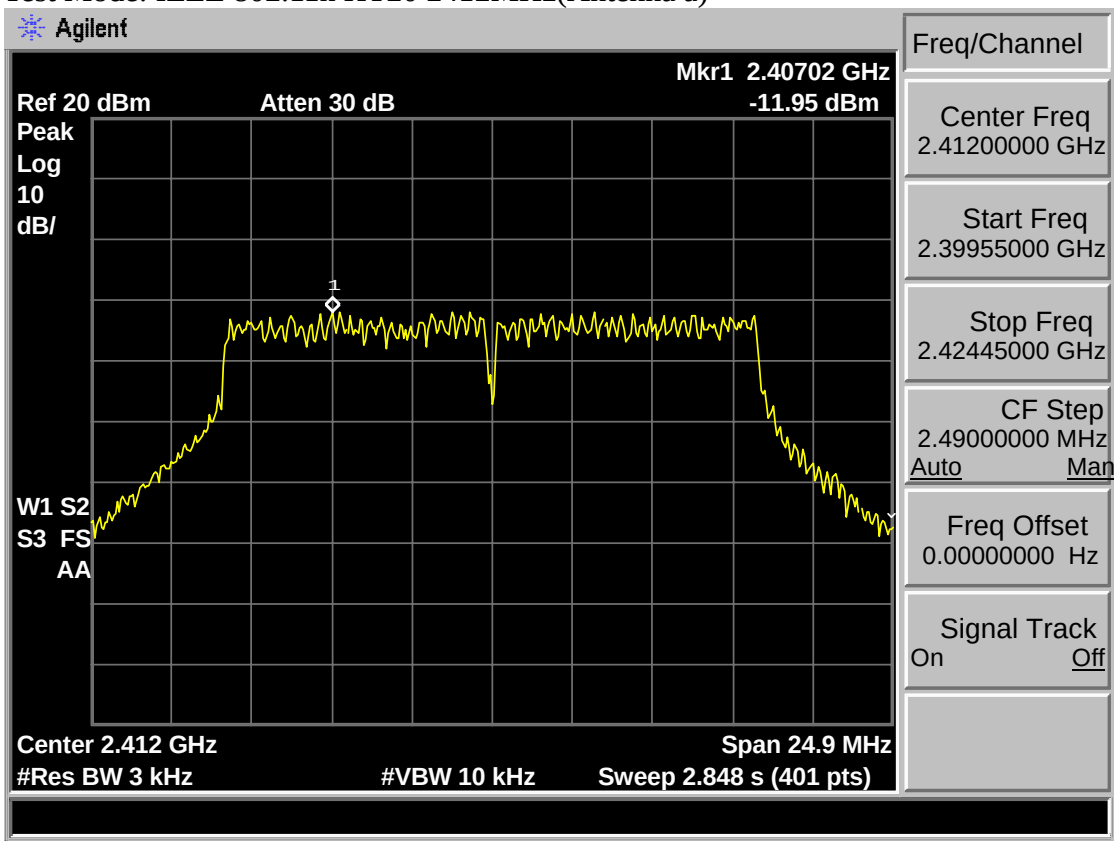
Test Mode: IEEE 802.11g 2462MHz(Antenna a)



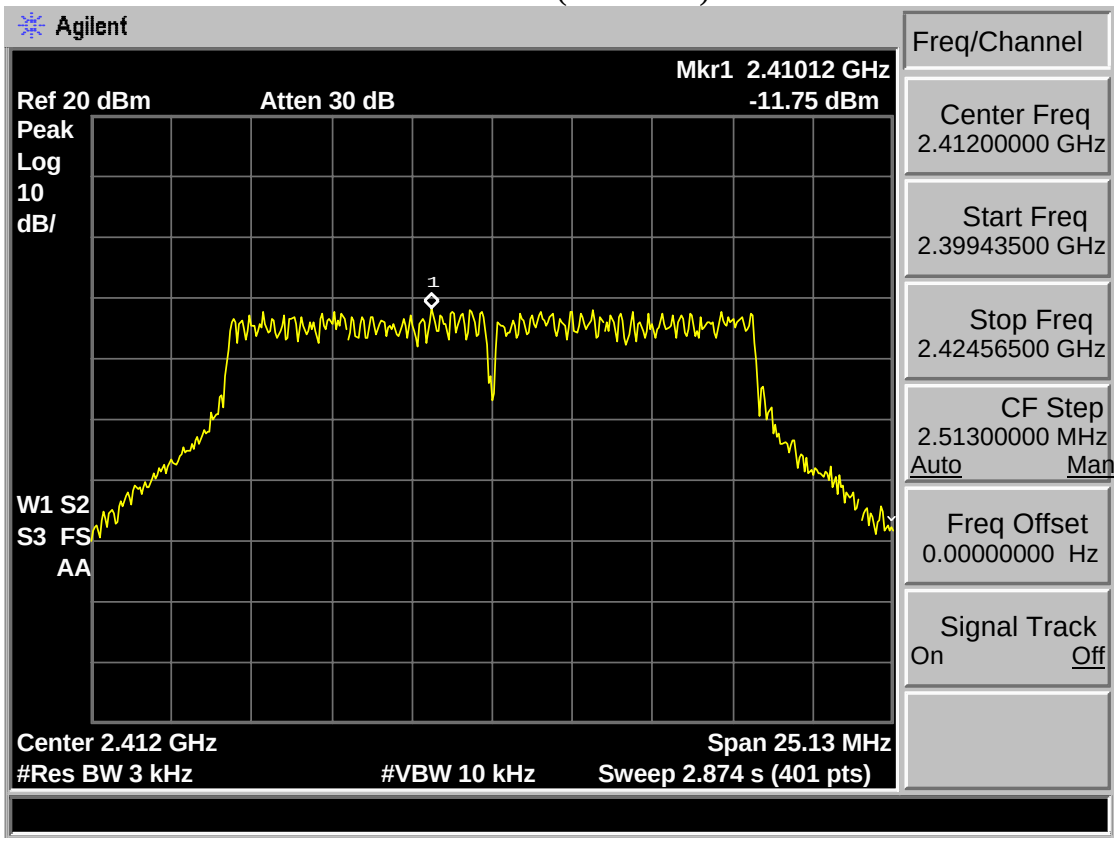
Test Mode: IEEE 802.11g 2462MHz(Antenna b)



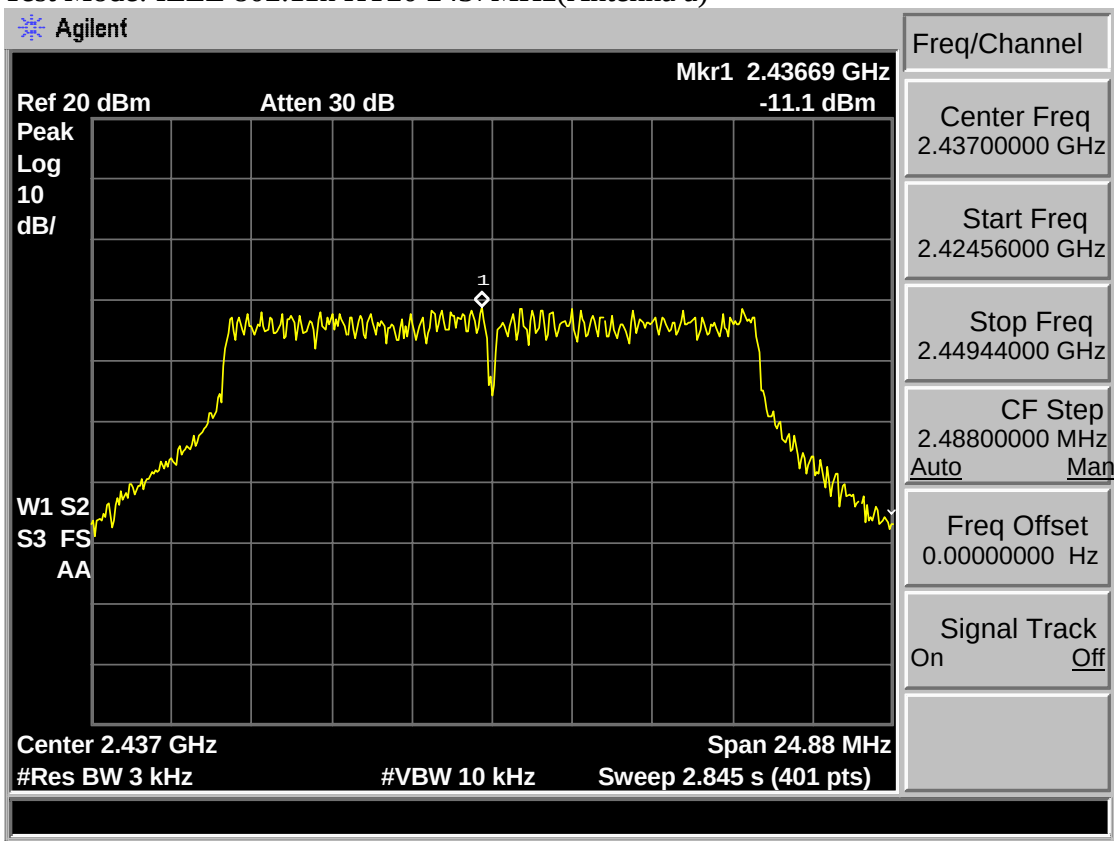
Test Mode: IEEE 802.11n HT20 2412MHz(Antenna a)



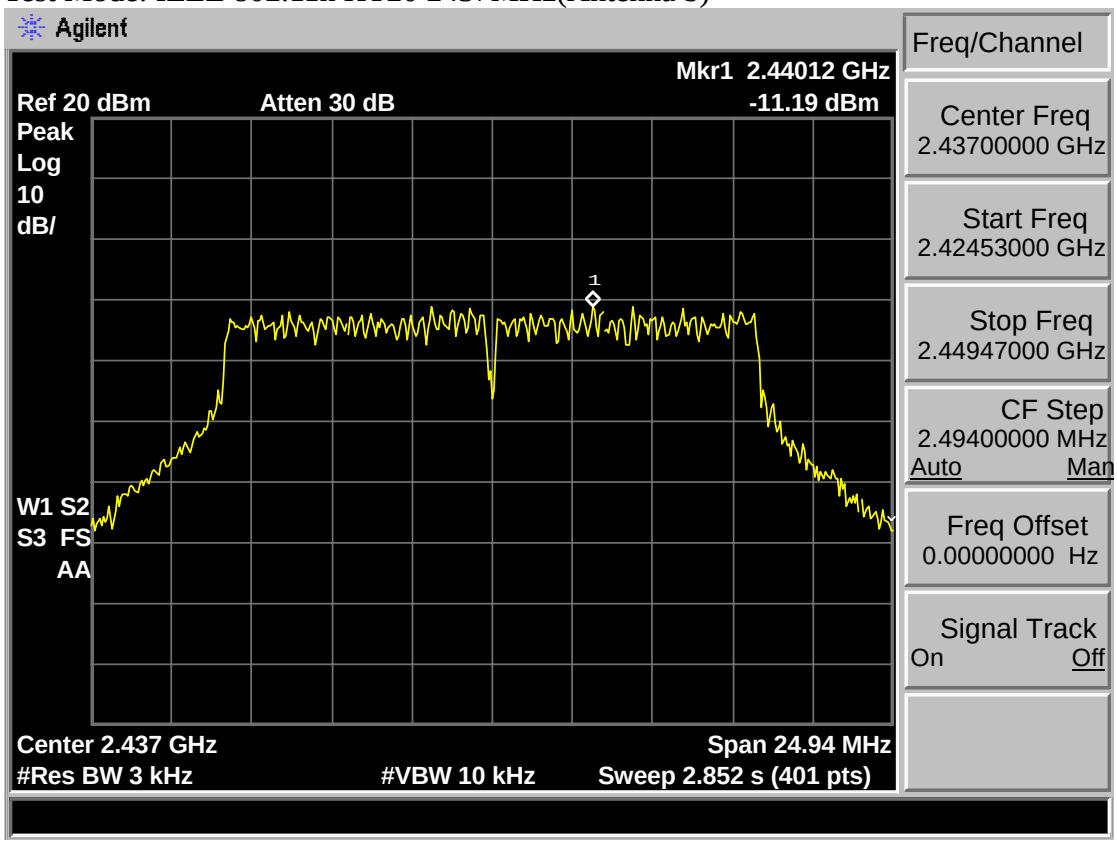
Test Mode: IEEE 802.11n HT20 2412MHz(Antenna b)



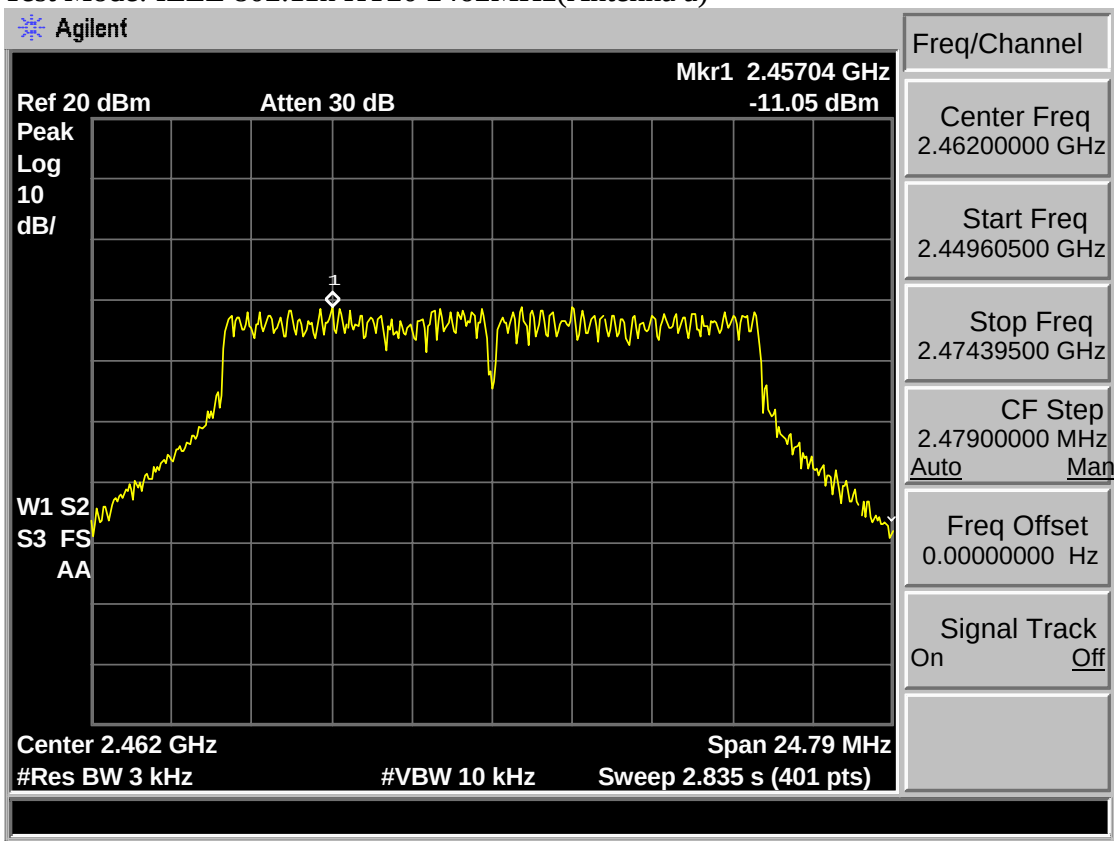
Test Mode: IEEE 802.11n HT20 2437MHz(Antenna a)



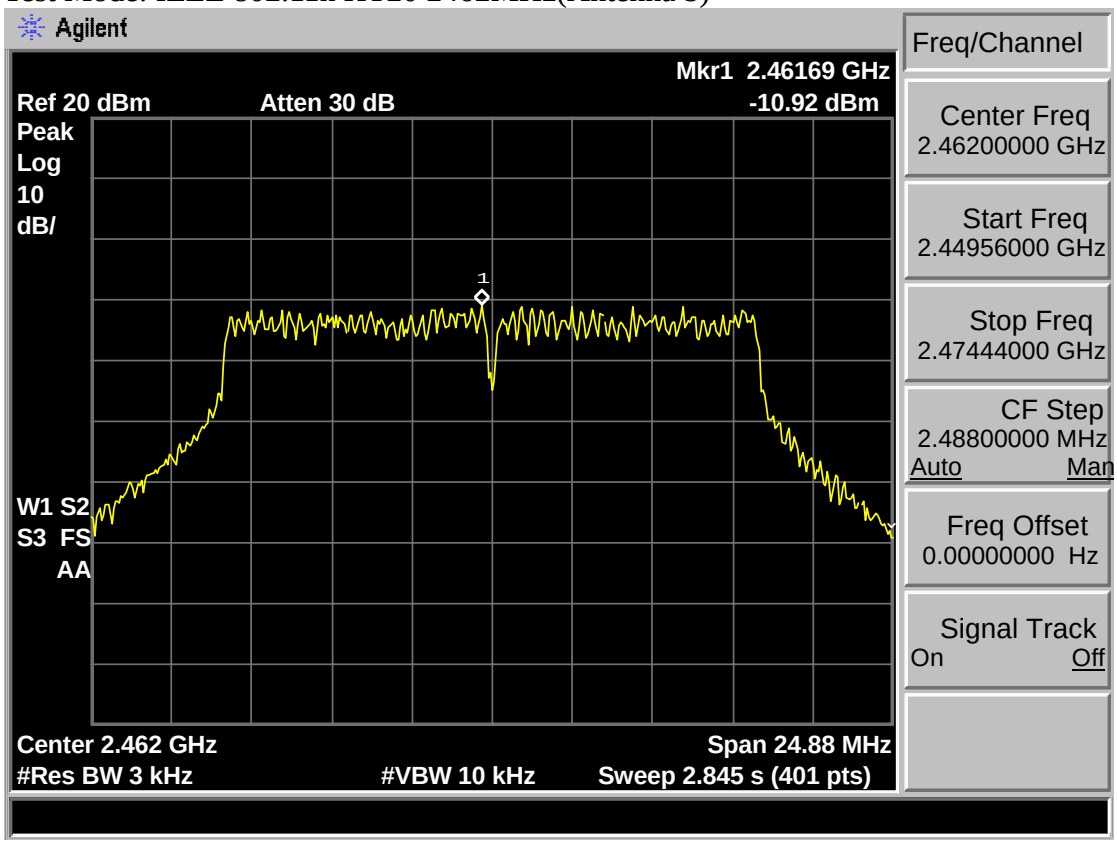
Test Mode: IEEE 802.11n HT20 2437MHz(Antenna b)



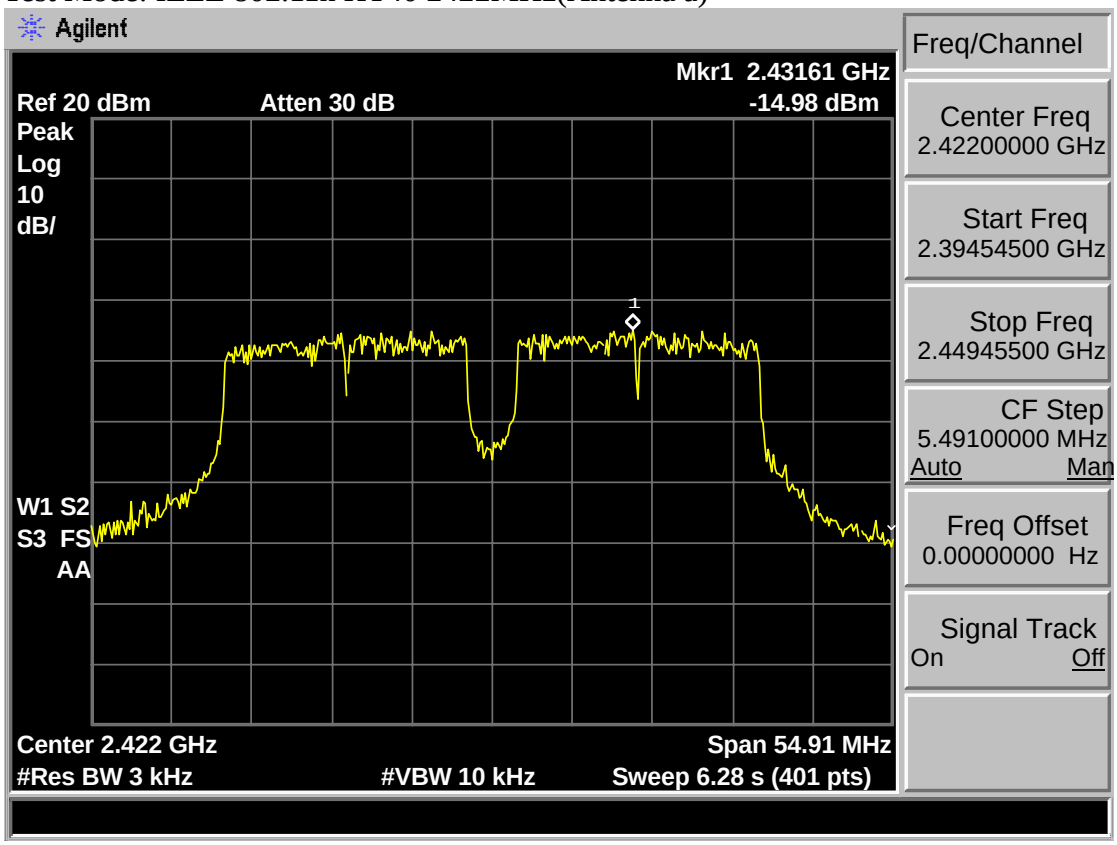
Test Mode: IEEE 802.11n HT20 2462MHz(Antenna a)



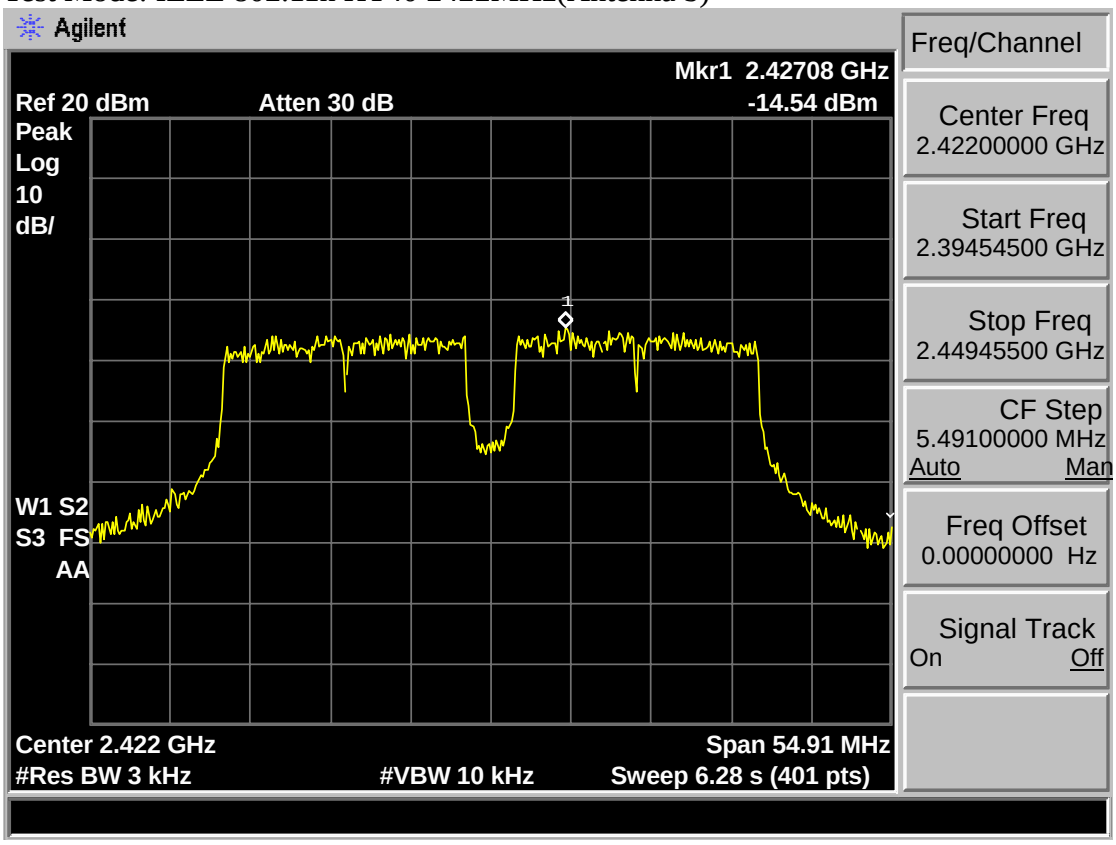
Test Mode: IEEE 802.11n HT20 2462MHz(Antenna b)



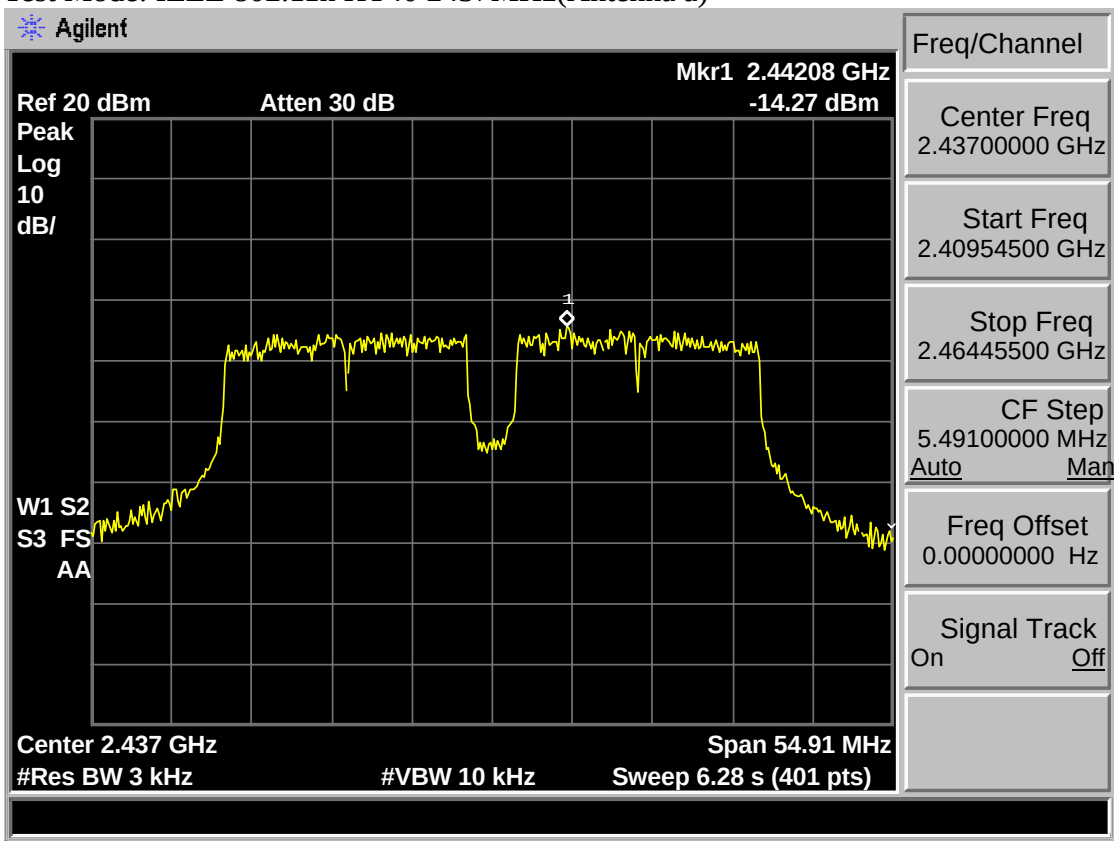
Test Mode: IEEE 802.11n HT40 2422MHz(Antenna a)



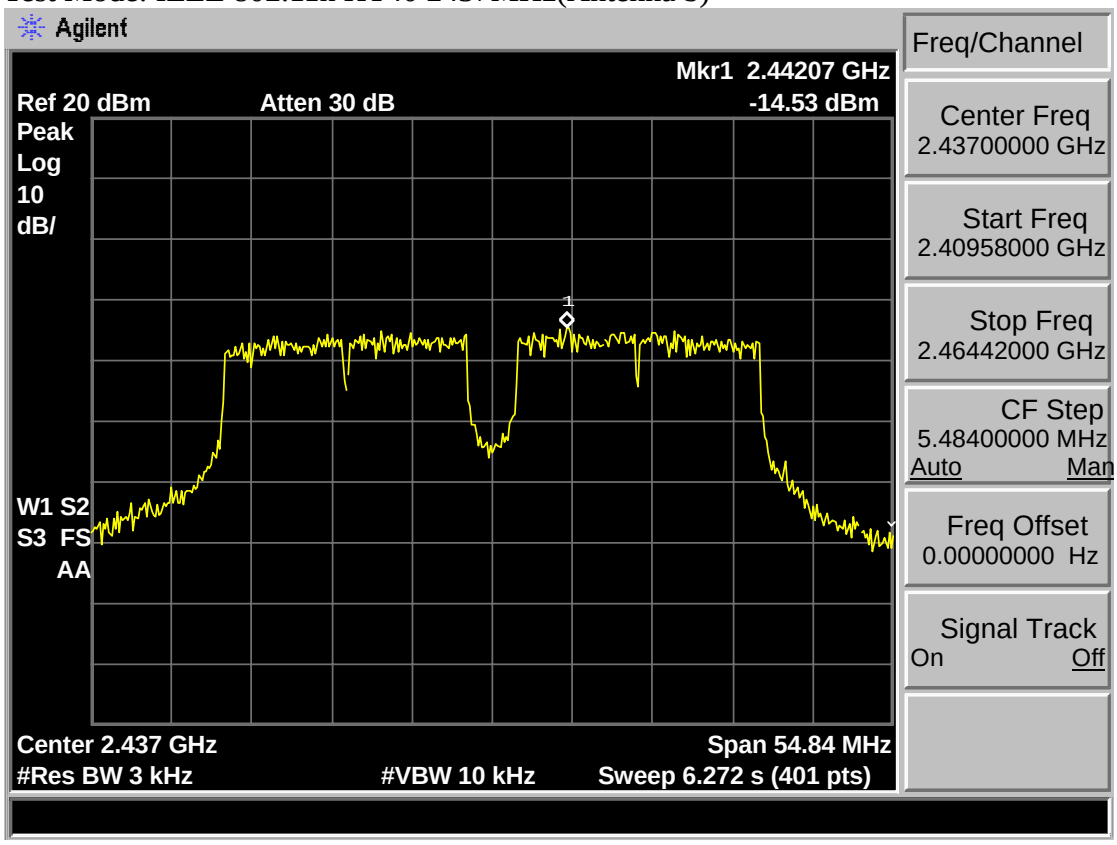
Test Mode: IEEE 802.11n HT40 2422MHz(Antenna b)



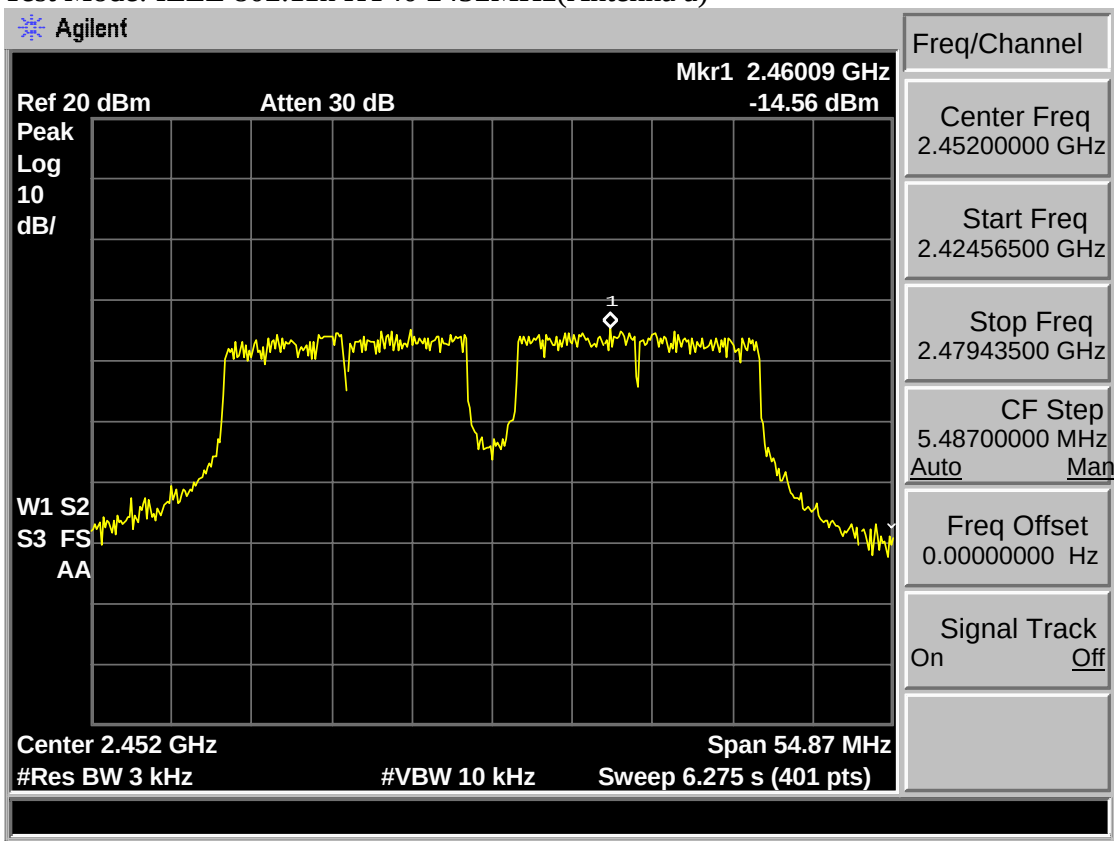
Test Mode: IEEE 802.11n HT40 2437MHz(Antenna a)



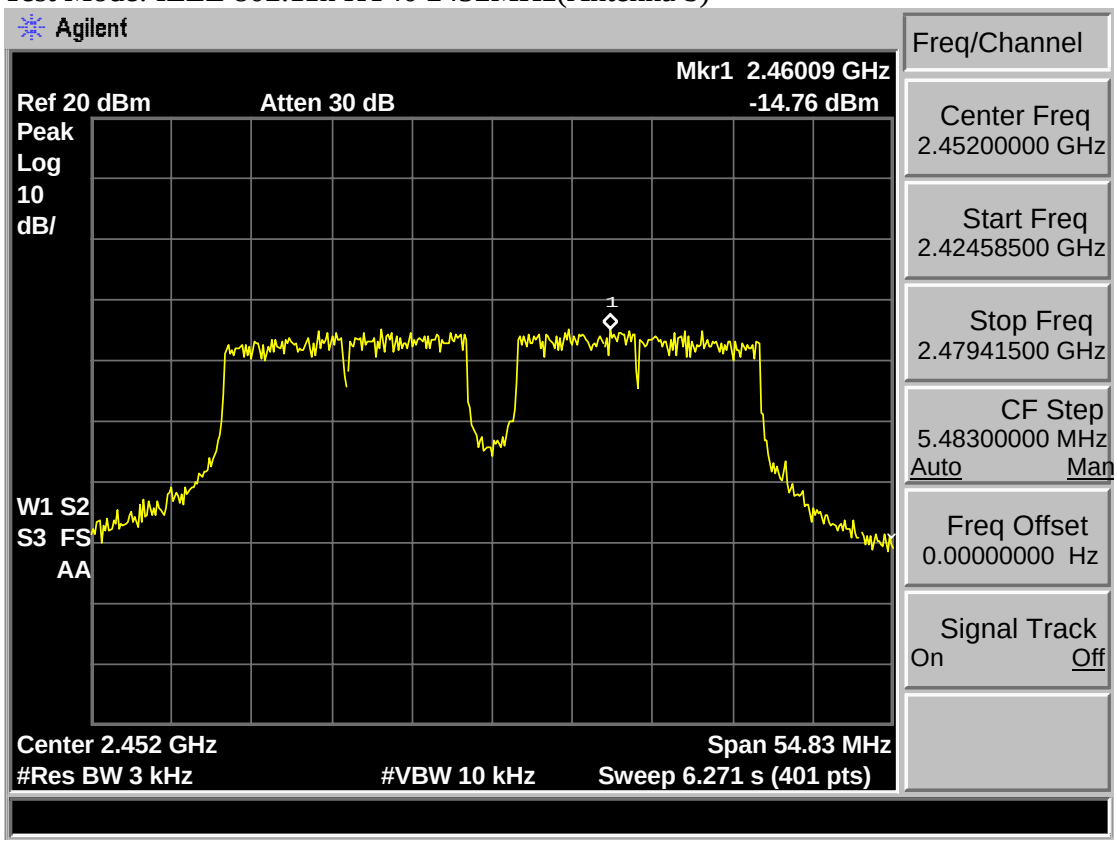
Test Mode: IEEE 802.11n HT40 2437MHz(Antenna b)



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 1.8 dBi.

10 TEST SETUP PHOTO

Please refer to Annex 1

11 PHOTOS OF EUT

Please refer to Annex 2 and 3