

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Shenyang Tongfang Multimedia Technology Co., Limited

LED TV

Model Number: WA43FBN1001

FCC ID: 2ACWIWA43FBN10

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

Prepared By : EST Technology Co., Ltd.
San Tun Management Zone, Houjie Town, Dongguan,
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Report Number: ESTE-R1705013
Date of Test : April 10~April 25, 2017
Date of Report : May 03, 2017

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Test Report Verification

Applicant:	Shenyang Tongfang Multimedia Technology Co., Limited	
Address:	No. 10 Nanping East Road HunNan New District Shenyang,LiaoNing Province China	
Manufacturer Address:	Shenyang Tongfang Multimedia Technology Co., Limited No. 10 Nanping East Road HunNan New District Shenyang,LiaoNing Province China	
Factory Address:	Shenyang Tongfang Multimedia Technology Co., Limited No. 10 Nanping East Road HunNan New District Shenyang,LiaoNing Province China	
E.U.T:	LED TV	
Model Number:	WA43FBN1001	
Power Supply:	AC 100~240V;50/60Hz	
Test Voltage:	AC 120V/60Hz; AC 240V/60Hz	
Trade Name:	Seiki,THTF,WESTINGG HOUSE,ELEMENT	Serial No.: -----
Date of Receipt:	April 10, 2017	Date of Test: April 10~ April 25, 2017
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2016 ANSI C63.10:2013	
Test Result:	<p>The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: May 03, 2017</p>	
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	:	WA43FBN1001
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 2dBi gain (Max)

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		

2.2. Test Facilities

EMC Lab : Certified by CNAL, CHINA
Registration No.: L5288
Date of registration: December 07, 2015

Certificated by FCC, USA
Registration No.: 989591
Date of registration: November 15, 2016

Certificated by Industry Canada
Registration No.: 9405A-1
Date of registration: December 30, 2015

Certificated by VCCI, Japan
Registration No.: R-3663 & C-4103
Date of registration: July 25, 2011

Certificated by TUV Rheinland, Germany
Registration No.: UA 50195514 0001
Date of registration: January 07, 2011

Certificated by TUV/PS, Shenzhen
Registration No.: SCN1017
Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO
Registration No.: 2011-RTL-L1-18
Date of registration: April 28, 2011

Certificated by Siemic, Inc.
Registration No.: SLCN021
Date of registration: November 8, 2011

Certificated by Nemko, Hong Kong
Registration No.: 175193
Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

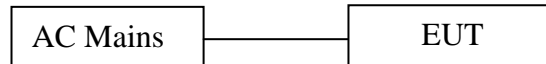
Site Location : San Tun Management Zone, Houjie Town, Dongguan,
Guangdong, China

2.3. Assistant equipment used for test

2.3.1. N/A

2.4. Block Diagram

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



(EUT: 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	2442MHz	2462MHz
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20 Receiving	2412MHz	2442MHz	2462MHz
IEEE 802.11n HT40 Transmitting	2422MHz	2442MHz	2452MHz
IEEE 802.11n HT40 Receiving	2422MHz	2442MHz	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	MY5014069 7	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	SCHWARZB ECK	BBHA 9120 D	BBHA9120D1 002	June,28,16	1 Year
Signal Amplifier	SCHWARZB ECK	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(μ V)	Average Level dB(μ V)
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.

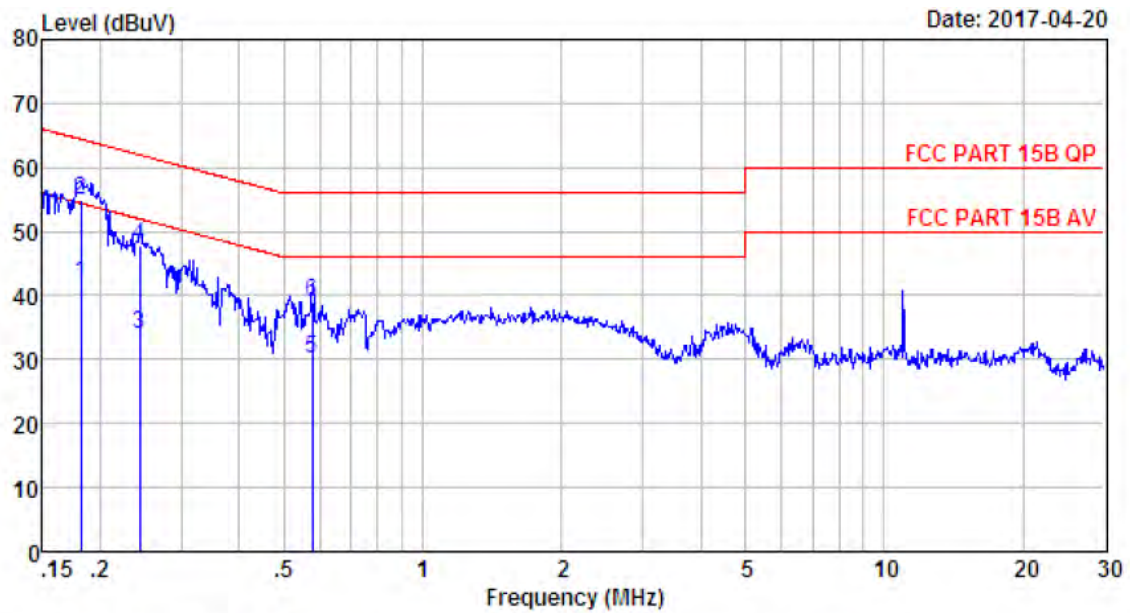
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

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

3.4. Test Result

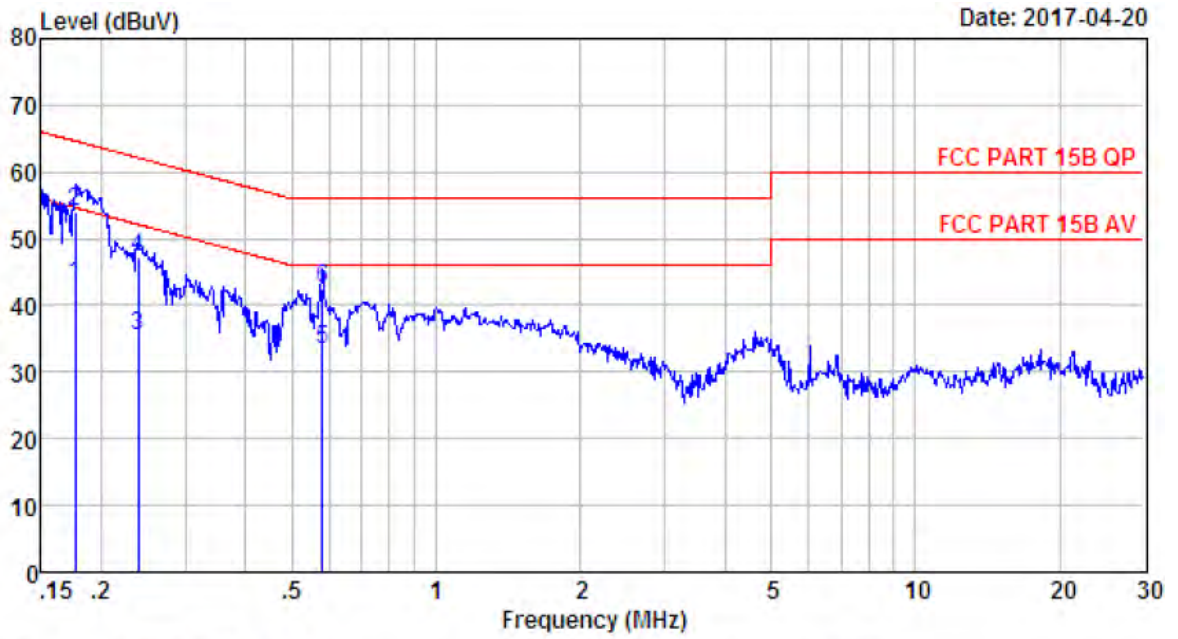
PASS. (All emissions not reported below are too low against the prescribed limits.)

3.5. Test data



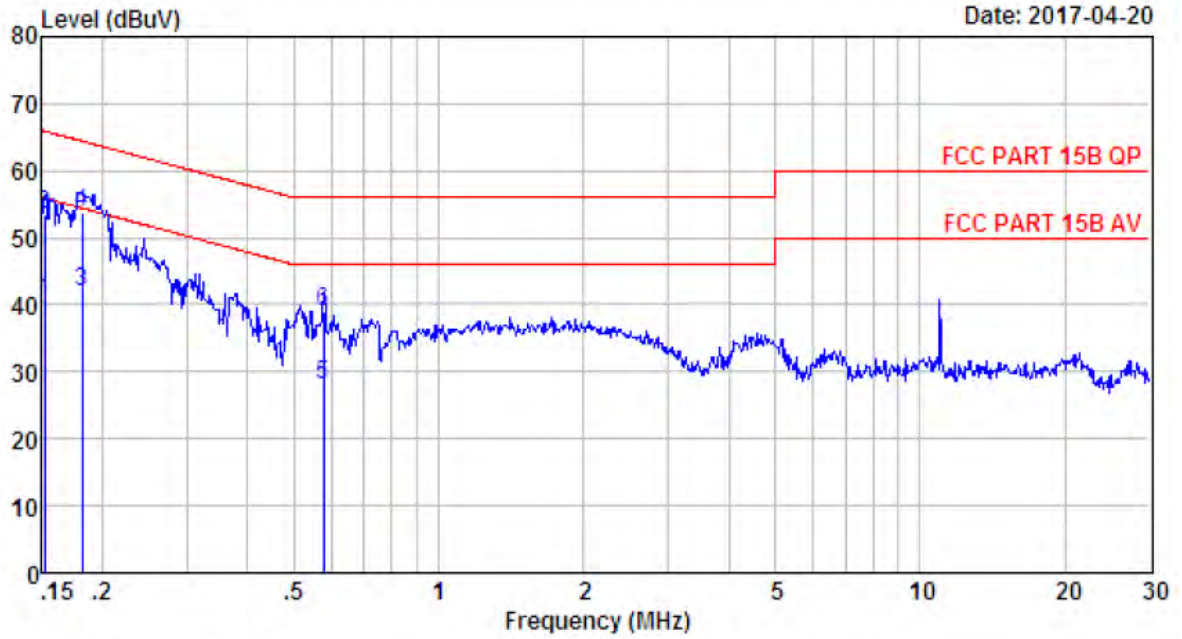
Site no : 844 Shield Room Data no. : 1339
 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.18	9.55	9.80	22.50	41.85	54.42	12.57	Average
2	0.18	9.55	9.80	35.50	54.85	64.42	9.57	QP
3	0.24	9.60	9.82	14.47	33.89	52.00	18.11	Average
4	0.24	9.60	9.82	28.47	47.89	62.00	14.11	QP
5	0.58	9.61	9.82	10.54	29.97	46.00	16.03	Average
6	0.58	9.61	9.82	19.84	38.97	56.00	17.03	QP



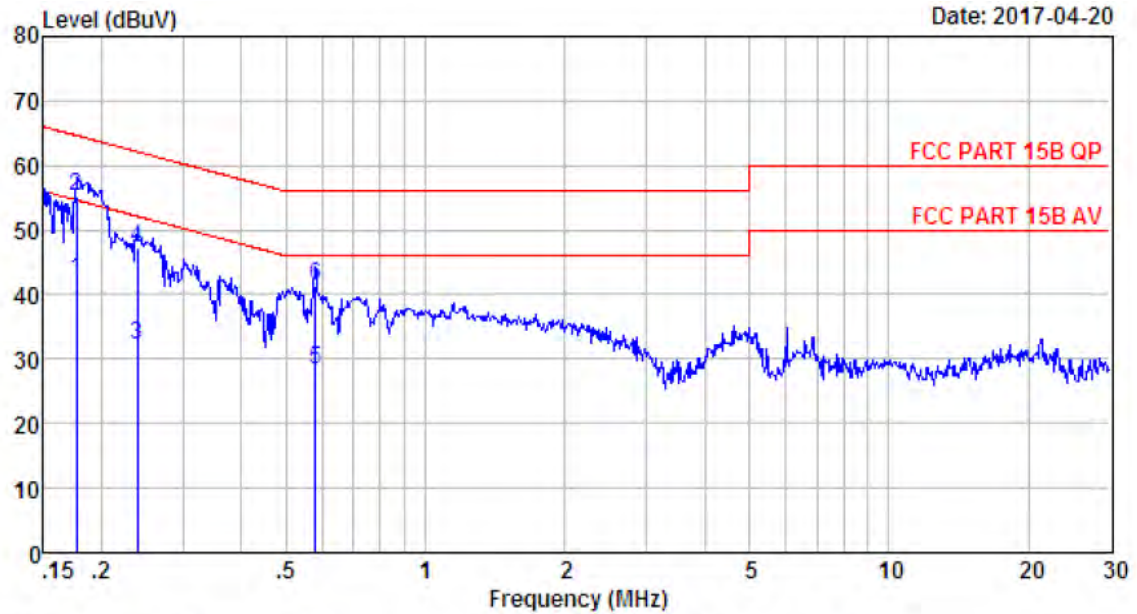
Site no : 844 Shield Room Data no. : 1341
 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.18	9.61	9.80	23.70	43.11	54.64	11.53	Average
2	0.18	9.61	9.80	34.70	54.11	64.64	10.53	QP
3	0.24	9.61	9.82	15.86	35.29	52.13	16.84	Average
4	0.24	9.61	9.82	27.86	47.29	62.13	14.84	QP
5	0.58	9.60	9.82	13.99	33.41	46.00	12.59	Average
6	0.58	9.60	9.82	22.99	42.41	56.00	13.59	QP



Site no : 844 Shield Room Data no. : 1343
 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : LED TV
 Power : AC 240V/60Hz
 M/N : WA43FBN1001
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.46	9.81	21.24	40.51	55.91	15.40	Average
2	0.15	9.46	9.81	34.24	53.51	65.91	12.40	QP
3	0.18	9.55	9.80	22.50	41.85	54.42	12.57	Average
4	0.18	9.55	9.80	34.50	53.85	64.42	10.57	QP
5	0.58	9.61	9.82	8.54	27.97	46.00	18.03	Average
6	0.58	9.61	9.82	19.54	38.97	56.00	17.03	QP



Site no : 844 Shield Room Data no. : 1345
 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : LED TV
 Power : AC 240V/60Hz
 M/N : WA43FBN1001
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18	9.61	9.80	22.70	42.11	54.64	12.53	Average
2	0.18	9.61	9.80	35.70	55.11	64.64	9.53	QP
3	0.24	9.61	9.82	12.86	32.29	52.13	19.84	Average
4	0.24	9.61	9.82	27.86	47.29	62.13	14.84	QP
5	0.58	9.60	9.82	8.99	28.41	46.00	17.59	Average
6	0.58	9.60	9.82	21.99	41.41	56.00	14.59	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)	

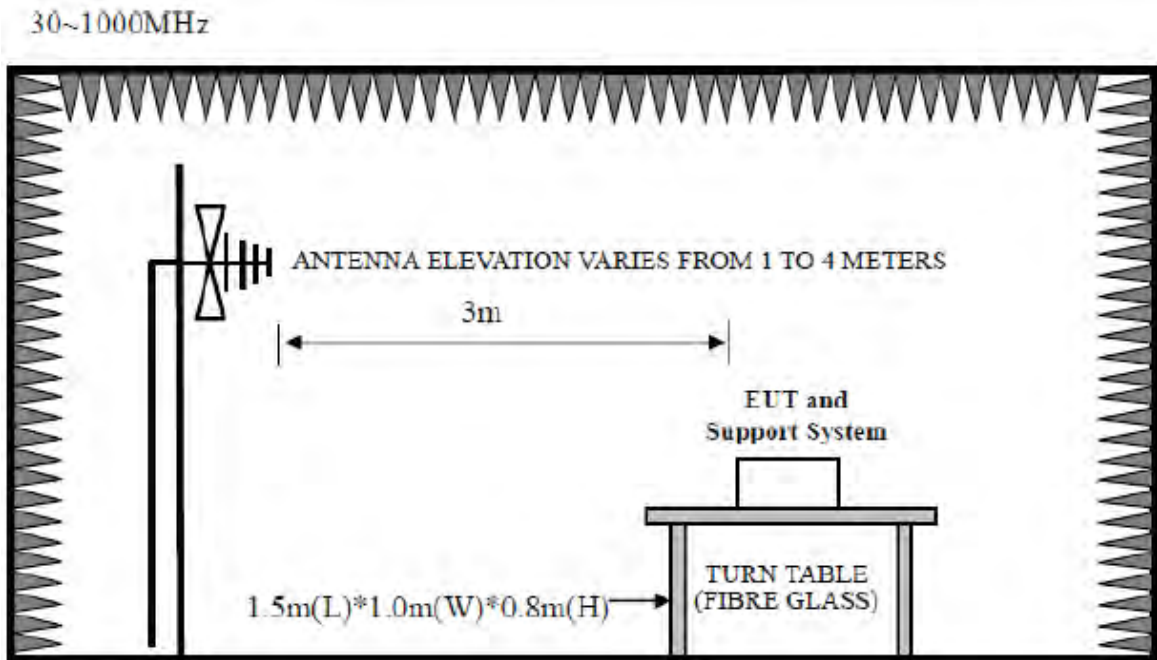
- Remark : (1) Emission level dBμV = 20 log Emission level μV/m
 (2) The smaller limit shall apply at the cross point between two frequency bands.
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.1.2 15.205 Restricted bands of operation

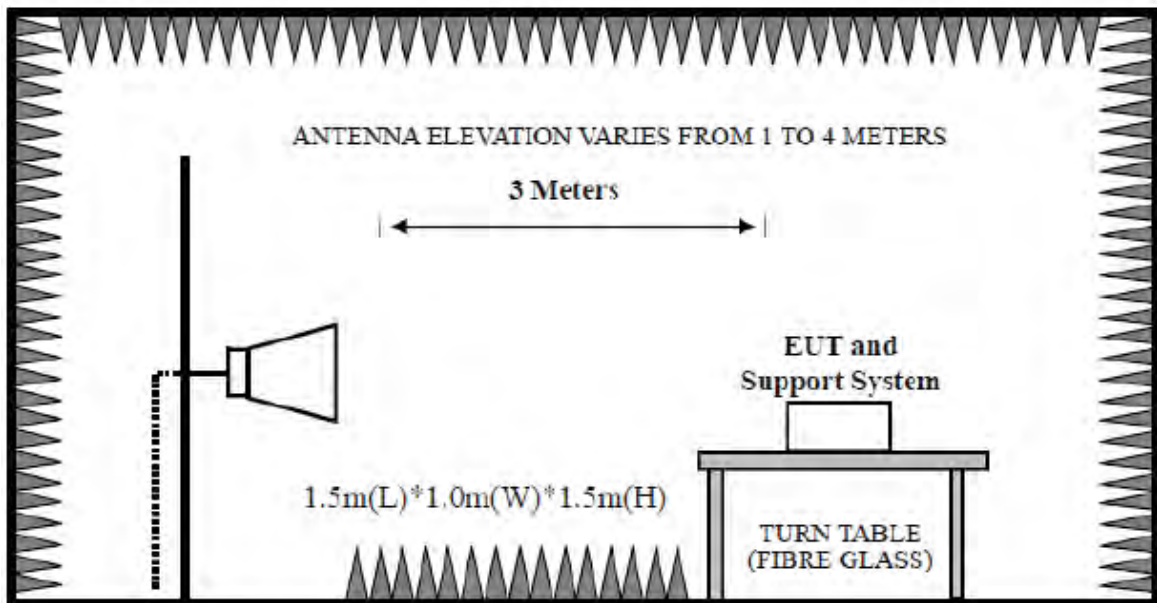
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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



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 10th harmonic (25GHz) are checked.

4.4. Test Result

PASS.

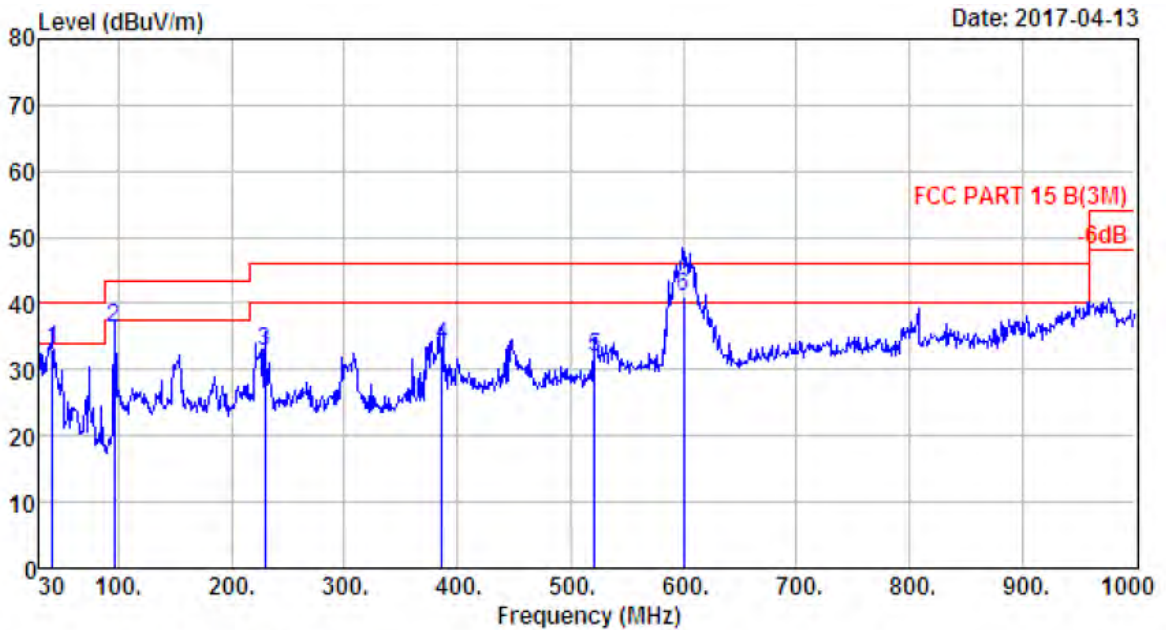
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Note: 1、 For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

2、 The frequency 2412MHz 、 2422MHz、 2437MHz、 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

4.5. Test Data

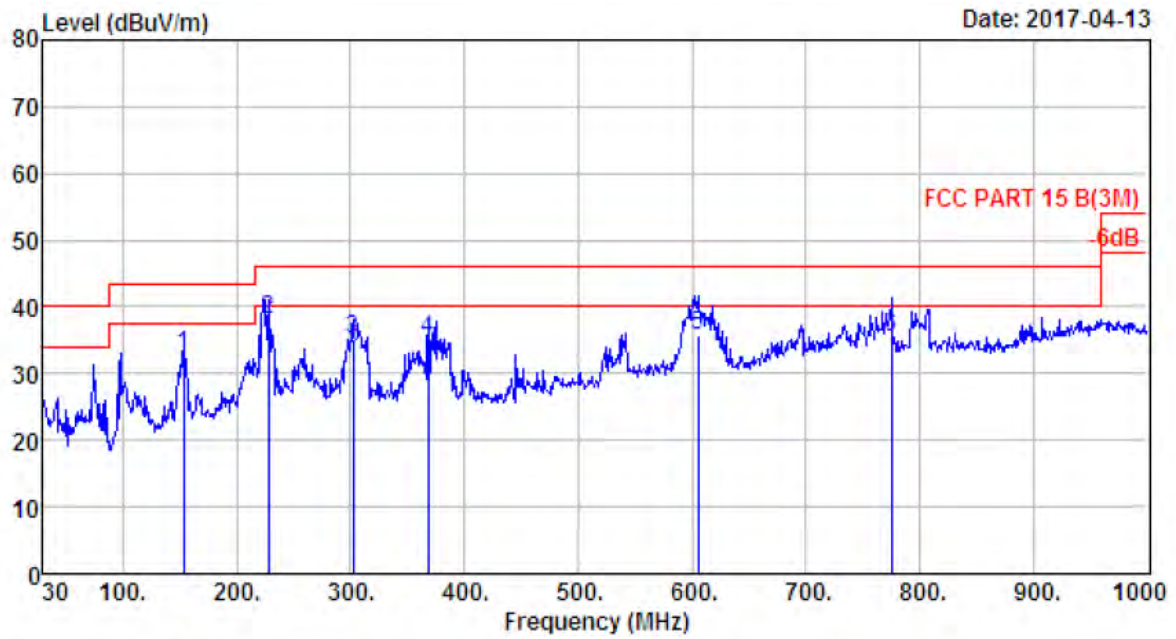
30-1000 MHz



```

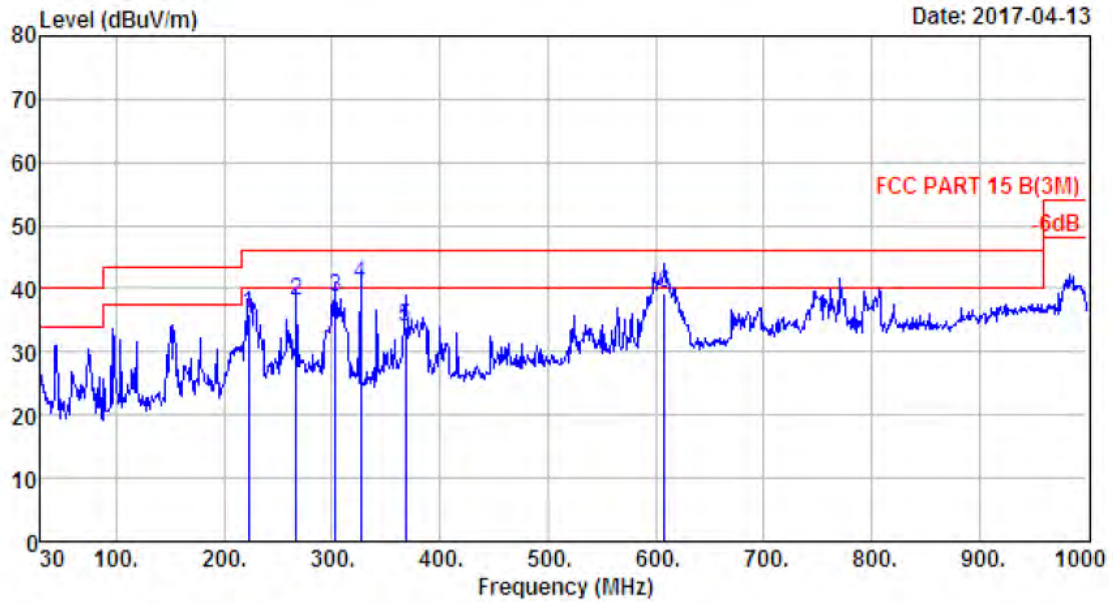
Site no.       : 1# 966 Chamber           Data no.      : 1040
Dis. / Ant.   : 3m 27137                 Ant. pol.    : VERTICAL
Limit         : FCC PART 15 B(3M)
Env. / Ins.   : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer      : Bible
EUT           : LED TV
Power         : AC 120V/60Hz
M/N           : WA43FBN1001
Test Mode     : IEEE 802.11b CH1 2412TX
    
```

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	41.640	11.75	0.85	20.48	33.08	40.00	6.92	QP
2	95.960	8.92	1.31	25.95	36.18	43.50	7.32	QP
3	229.820	9.44	2.07	21.24	32.75	46.00	13.25	QP
4	385.990	15.36	2.64	15.72	33.72	46.00	12.28	QP
5	521.790	18.01	3.22	10.70	31.93	46.00	14.07	QP
6	600.300	19.60	3.44	18.00	41.04	46.00	4.96	QP



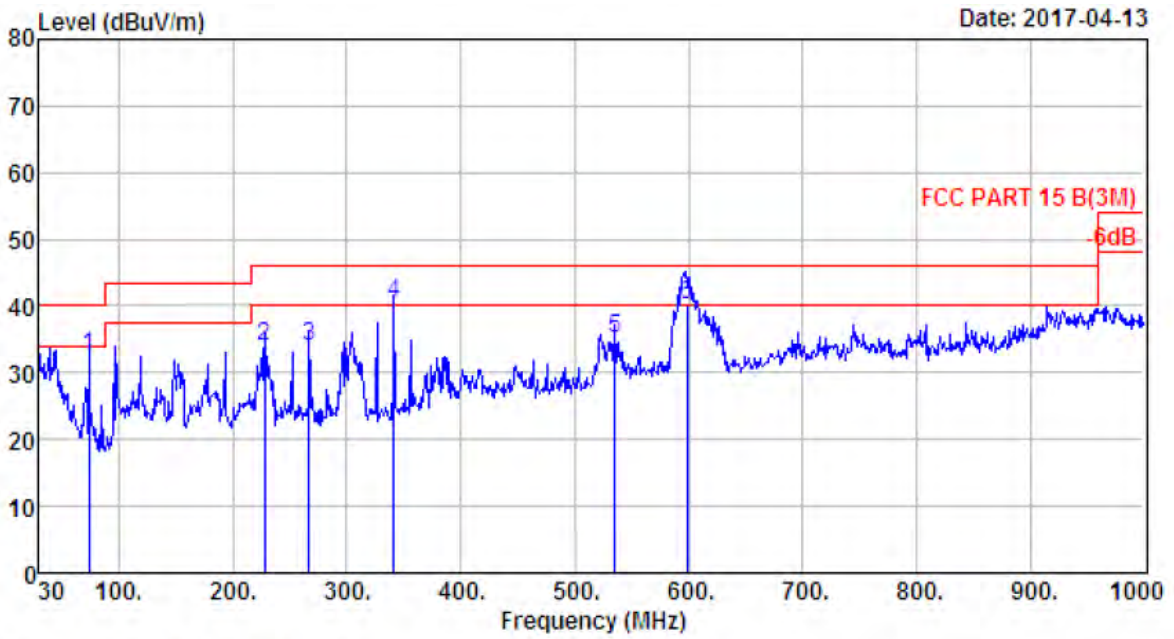
Site no. : 1# 966 Chamber Data no. : 1041
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11b CH1 2412TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	153.190	10.75	1.63	20.37	32.75	43.50	10.75	QP
2	227.880	9.46	2.09	26.54	38.09	46.00	7.91	QP
3	302.570	13.06	2.41	19.64	35.11	46.00	10.89	QP
4	368.530	14.80	2.64	17.56	35.00	46.00	11.00	QP
5	605.210	19.74	3.41	12.55	35.70	46.00	10.30	QP
6	774.960	22.02	3.83	9.49	35.34	46.00	10.66	QP



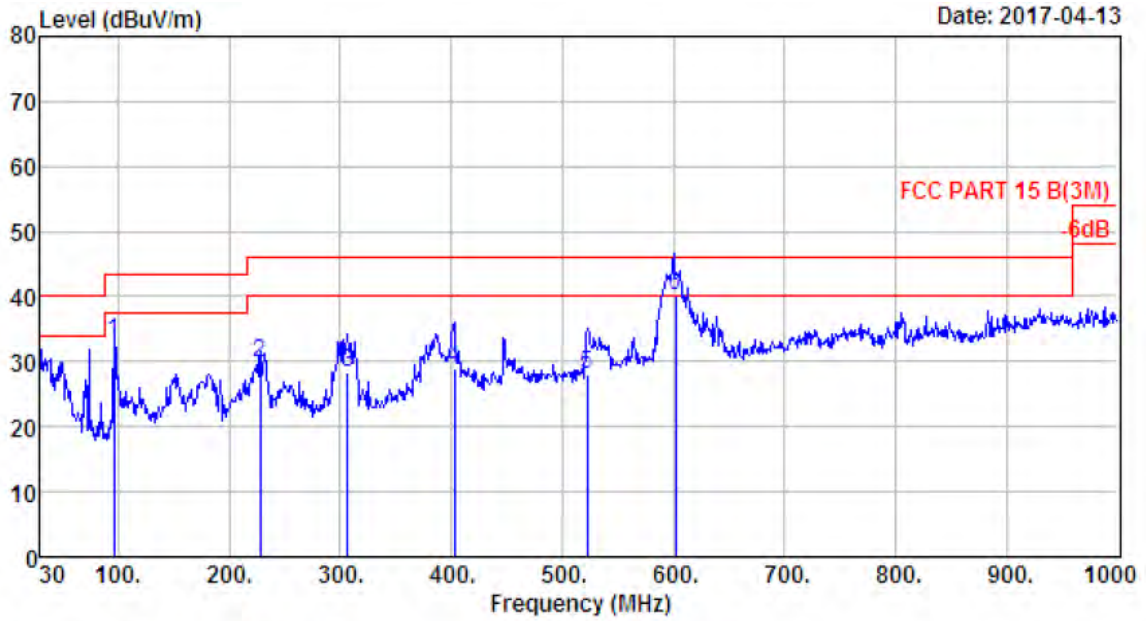
Site no. : 1# 966 Chamber Data no. : 1042
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11b CH6 2437TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	223.030	9.37	2.01	24.51	35.89	46.00	10.11	QP
2	266.680	12.79	2.27	22.93	37.99	46.00	8.01	QP
3	303.540	13.08	2.43	23.28	38.79	46.00	7.21	QP
4	326.820	13.77	2.44	24.67	40.88	46.00	5.12	QP
5	368.530	14.80	2.64	16.41	33.85	46.00	12.15	QP
6	608.120	19.82	3.41	16.01	39.24	46.00	6.76	QP



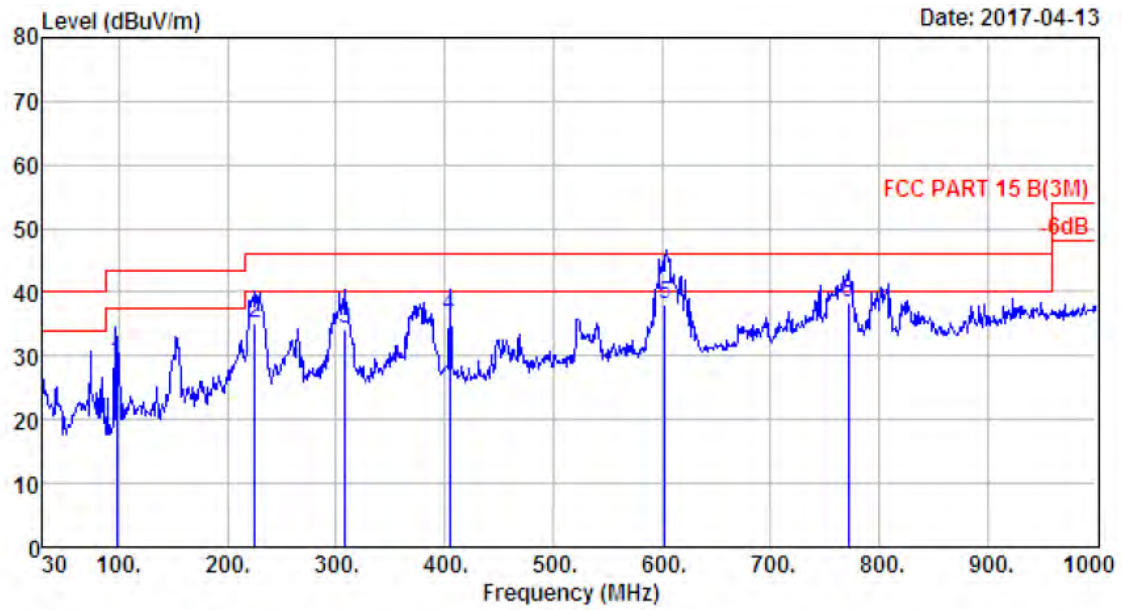
Site no. : 1# 966 Chamber Data no. : 1043
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11b CH6 2437TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	73.650	6.22	1.15	24.99	32.36	40.00	7.64	QP
2	227.880	9.46	2.09	22.44	33.99	46.00	12.01	QP
3	266.680	12.79	2.27	19.00	34.06	46.00	11.94	QP
4	341.370	14.19	2.53	23.77	40.49	46.00	5.51	QP
5	535.370	18.90	3.29	12.87	35.06	46.00	10.94	QP
6	598.400	19.57	3.43	17.00	40.00	46.00	6.00	QP



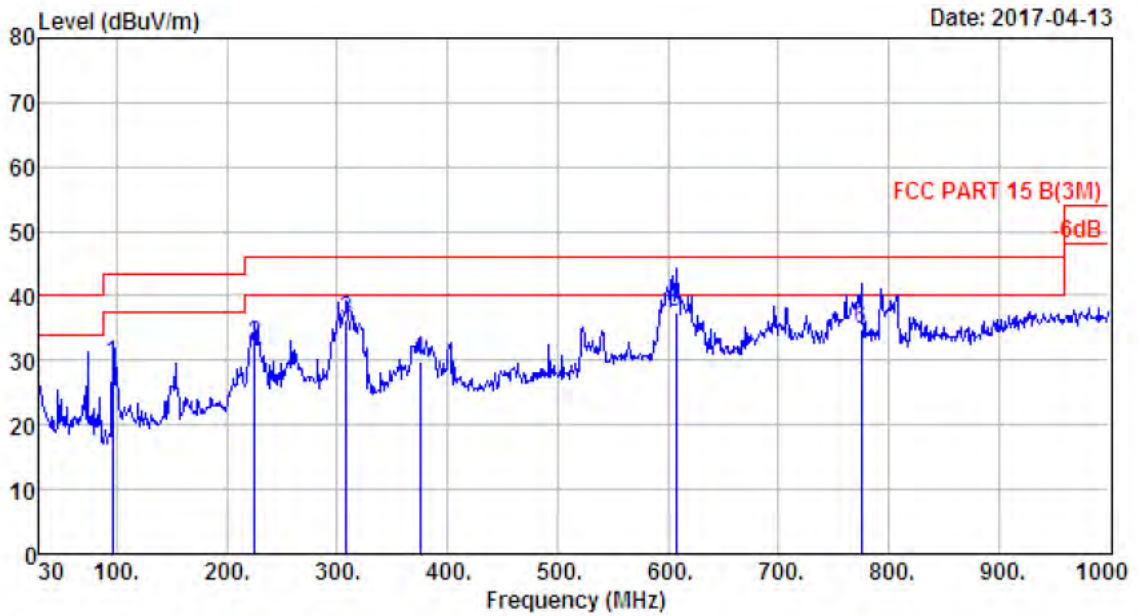
Site no. : 1# 966 Chamber Data no. : 1044
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11b CH11 2462TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	95.960	8.92	1.31	22.78	33.01	43.50	10.49	QP
2	227.880	9.46	2.09	18.17	29.72	46.00	16.28	QP
3	306.450	13.13	2.35	12.89	28.37	46.00	17.63	QP
4	402.480	16.12	2.74	10.06	28.92	46.00	17.08	QP
5	522.760	18.04	3.21	6.75	28.00	46.00	18.00	QP
6	602.000	19.66	3.41	17.00	40.07	46.00	5.93	QP



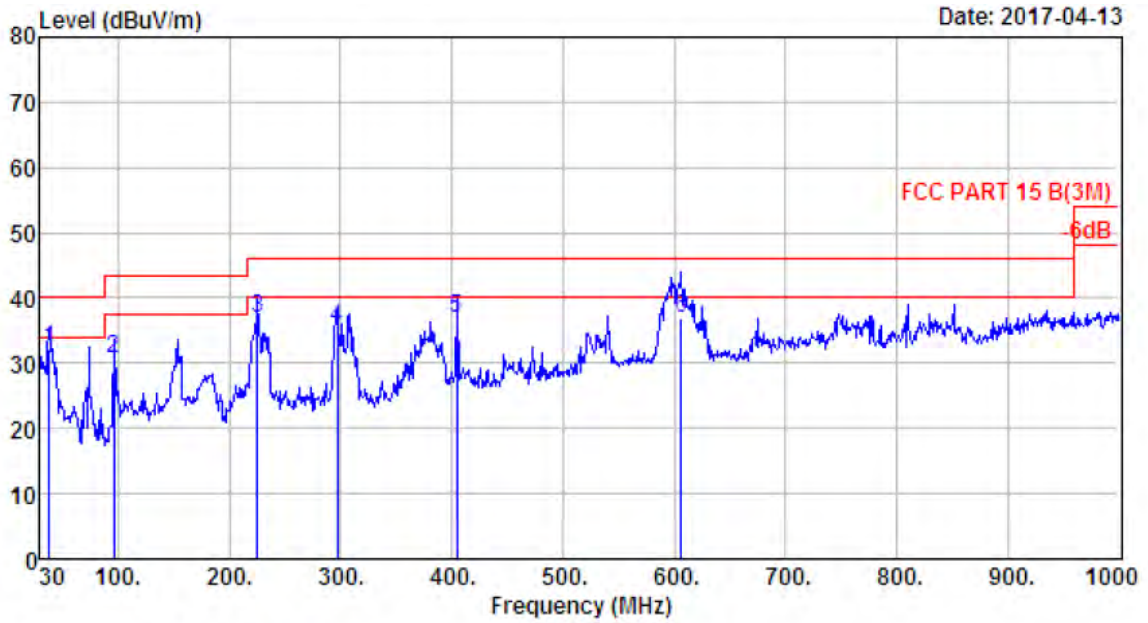
Site no. : 1# 966 Chamber Data no. : 1045
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11b CH11 2462TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	97.900	9.13	1.33	18.53	28.99	43.50	14.51	QP
2	224.970	9.48	2.00	23.79	35.27	46.00	10.73	QP
3	308.390	13.17	2.44	18.72	34.33	46.00	11.67	QP
4	404.420	16.16	2.65	17.54	36.35	46.00	9.65	QP
5	602.900	19.68	3.41	15.01	38.10	46.00	7.90	QP
6	772.050	22.04	3.89	12.39	38.32	46.00	7.68	QP



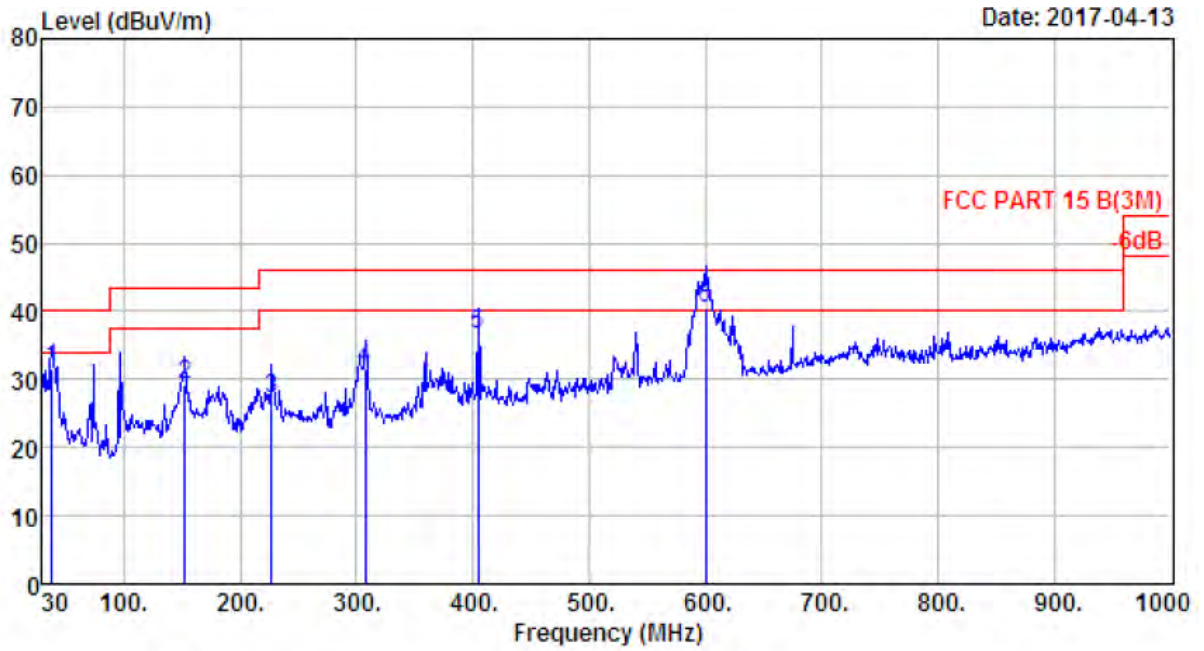
Site no. : 1# 966 Chamber Data no. : 1046
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.960	8.92	1.31	19.30	29.53	43.50	13.97	QP
2	224.970	9.48	2.00	21.09	32.57	46.00	13.43	QP
3	308.390	13.17	2.44	20.63	36.24	46.00	9.76	QP
4	375.320	14.94	2.66	12.07	29.67	46.00	16.33	QP
5	607.150	19.80	3.41	14.19	37.40	46.00	8.60	QP
6	774.960	22.02	3.83	9.08	34.93	46.00	11.07	QP



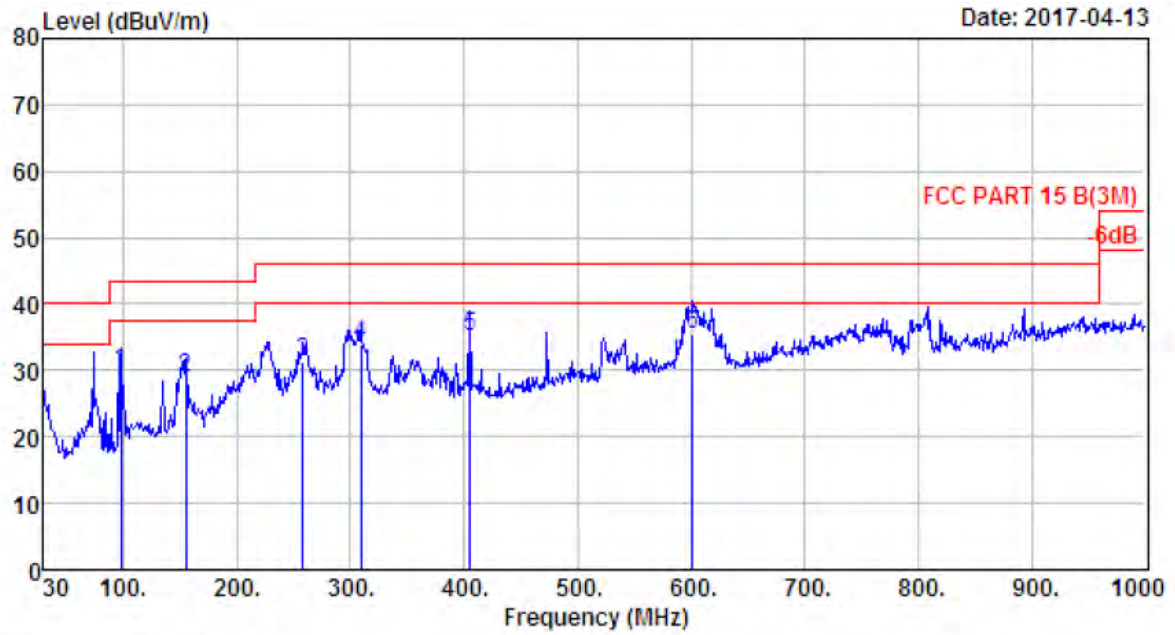
Site no. : 1# 966 Chamber Data no. : 1047
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	37.760	14.05	0.79	17.23	32.07	40.00	7.93	QP
2	95.960	8.92	1.31	20.51	30.74	43.50	12.76	QP
3	224.970	9.48	2.00	25.39	36.87	46.00	9.13	QP
4	296.750	12.99	2.32	20.10	35.41	46.00	10.59	QP
5	404.420	16.16	2.65	18.06	36.87	46.00	9.13	QP
6	606.180	19.77	3.40	13.83	37.00	46.00	9.00	QP



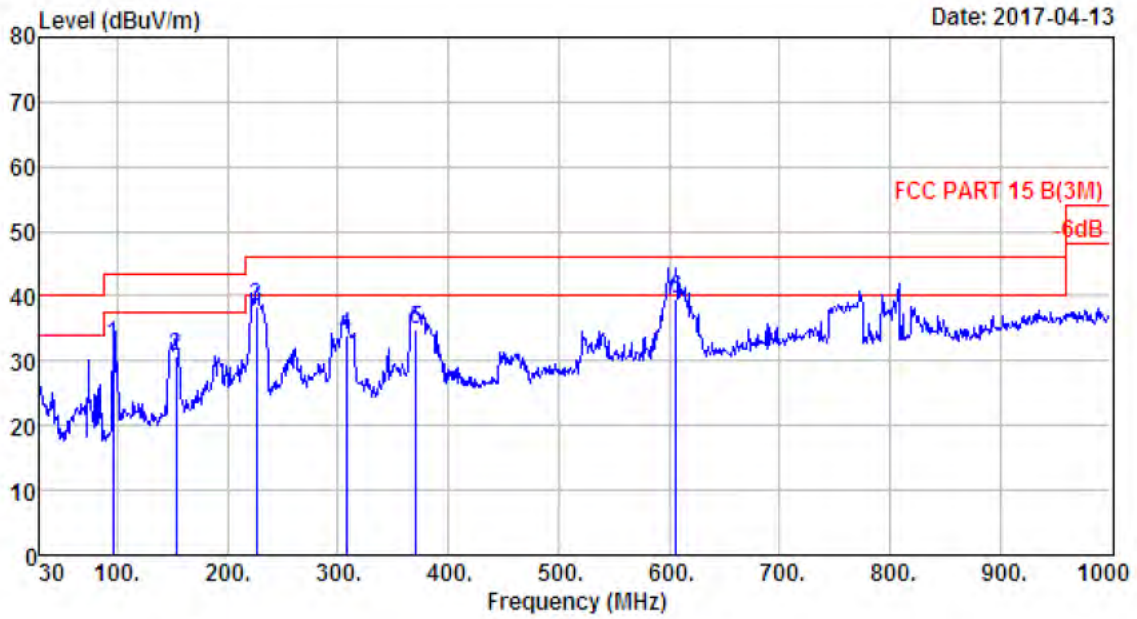
Site no. : 1# 966 Chamber Data no. : 1048
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11g CH6 2437TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	37.760	14.05	0.79	16.83	31.67	40.00	8.33	QP
2	152.220	10.78	1.62	16.87	29.27	43.50	14.23	QP
3	226.910	9.46	2.04	15.76	27.26	46.00	18.74	QP
4	307.420	13.15	2.40	16.17	31.72	46.00	14.28	QP
5	404.420	16.16	2.65	17.77	36.58	46.00	9.42	QP
6	600.360	19.60	3.44	17.55	40.59	46.00	5.41	QP



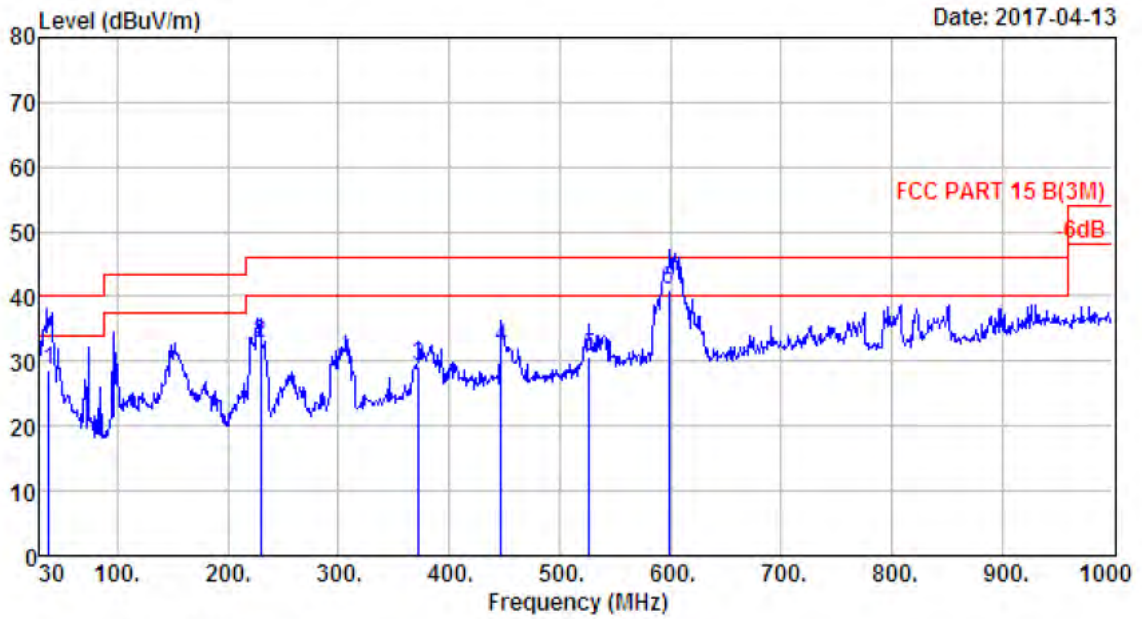
Site no. : 1# 966 Chamber Data no. : 1049
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11g CH6 2437TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	97.900	9.13	1.33	19.42	29.88	43.50	13.62	QP
2	155.130	10.67	1.69	16.66	29.02	43.50	14.48	QP
3	257.950	12.75	2.19	16.42	31.36	46.00	14.64	QP
4	309.360	13.18	2.36	18.33	33.87	46.00	12.13	QP
5	405.390	16.18	2.61	16.22	35.01	46.00	10.99	QP
6	601.330	19.63	3.41	12.40	35.44	46.00	10.56	QP



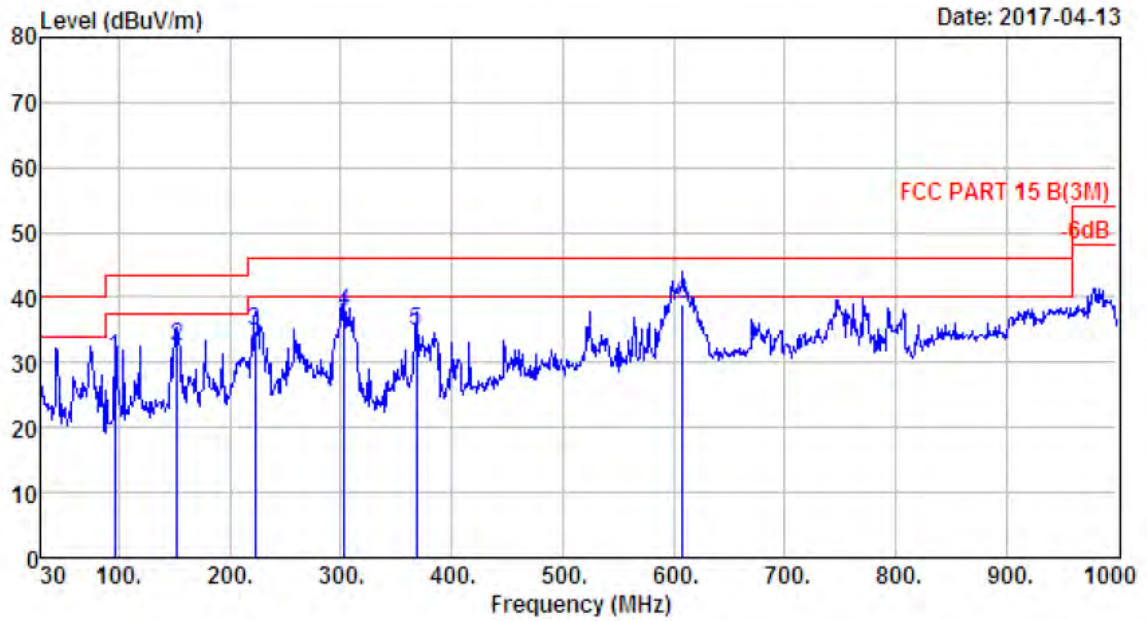
Site no. : 1# 966 Chamber Data no. : 1050
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11g CH11 2462TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.960	8.92	1.31	22.30	32.53	43.50	10.97	QP
2	153.190	10.75	1.63	18.44	30.82	43.50	12.68	QP
3	225.940	9.47	1.99	26.95	38.41	46.00	7.59	QP
4	307.420	13.15	2.40	18.41	33.96	46.00	12.04	QP
5	370.470	14.88	2.66	17.41	34.95	46.00	11.05	QP
6	606.180	19.77	3.40	16.26	39.43	46.00	6.57	QP



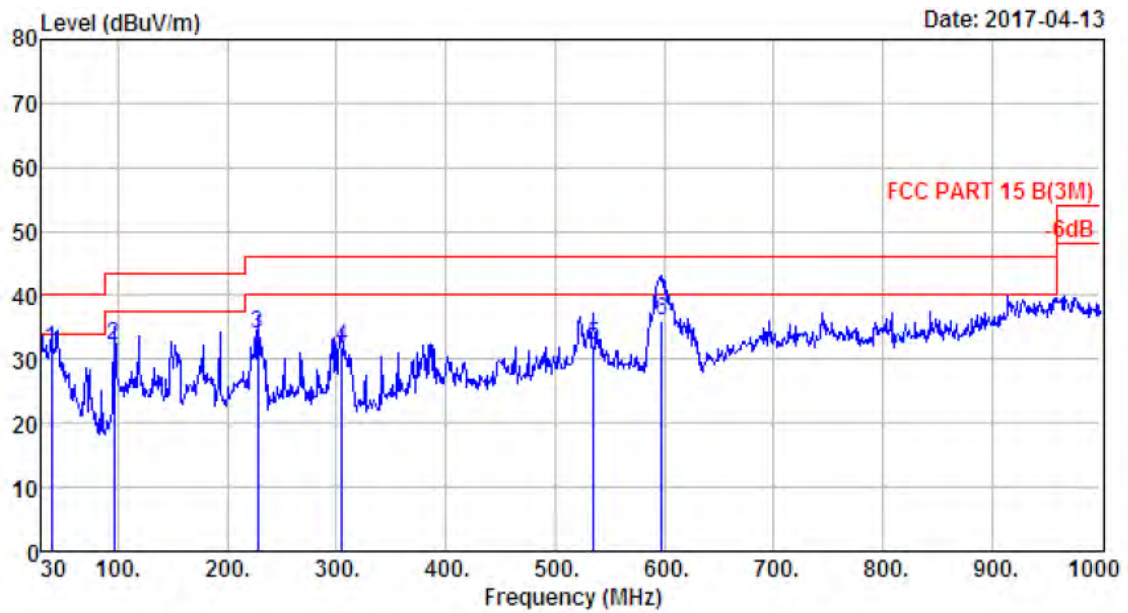
Site no. : 1# 966 Chamber Data no. : 1051
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11g CH11 2462TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	38.100	14.05	0.79	13.80	28.64	40.00	11.36	QP
2	229.820	9.44	2.07	21.23	32.74	46.00	13.26	QP
3	372.410	14.90	2.70	11.58	29.18	46.00	16.82	QP
4	447.100	16.40	2.98	12.83	32.21	46.00	13.79	QP
5	526.640	18.15	3.16	9.30	30.61	46.00	15.39	QP
6	598.300	19.57	3.43	18.10	41.10	46.00	4.90	QP



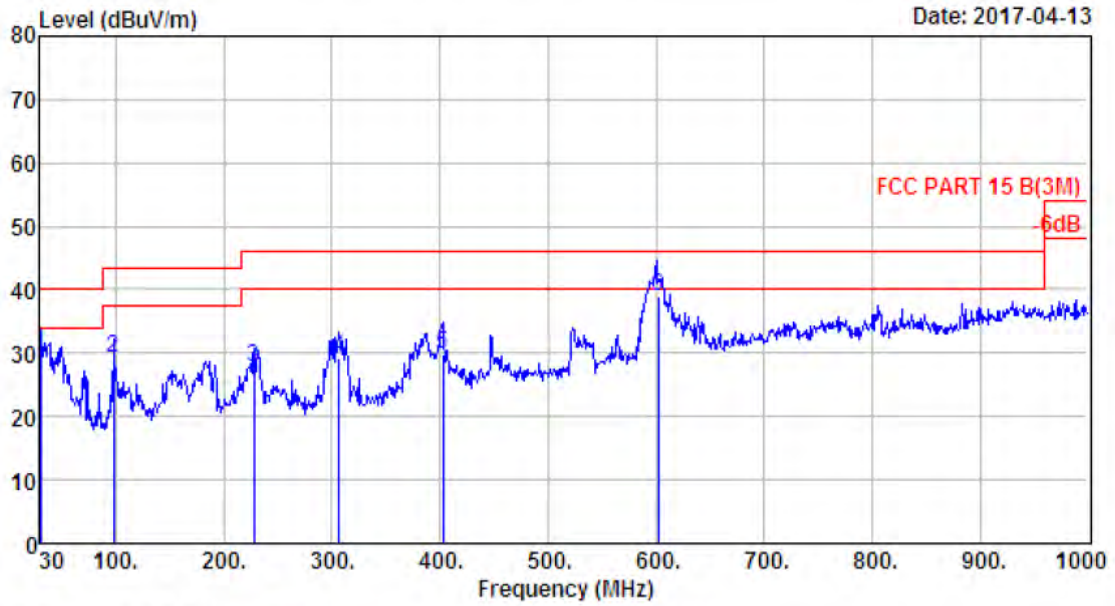
Site no. : 1# 966 Chamber Data no. : 1054
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.960	8.92	1.31	20.50	30.73	43.50	12.77	QP
2	152.220	10.78	1.62	19.98	32.38	43.50	11.12	QP
3	223.030	9.37	2.01	23.51	34.89	46.00	11.11	QP
4	303.540	13.08	2.43	22.28	37.79	46.00	8.21	QP
5	368.530	14.80	2.64	17.41	34.85	46.00	11.15	QP
6	608.120	19.82	3.41	15.61	38.84	46.00	7.16	QP



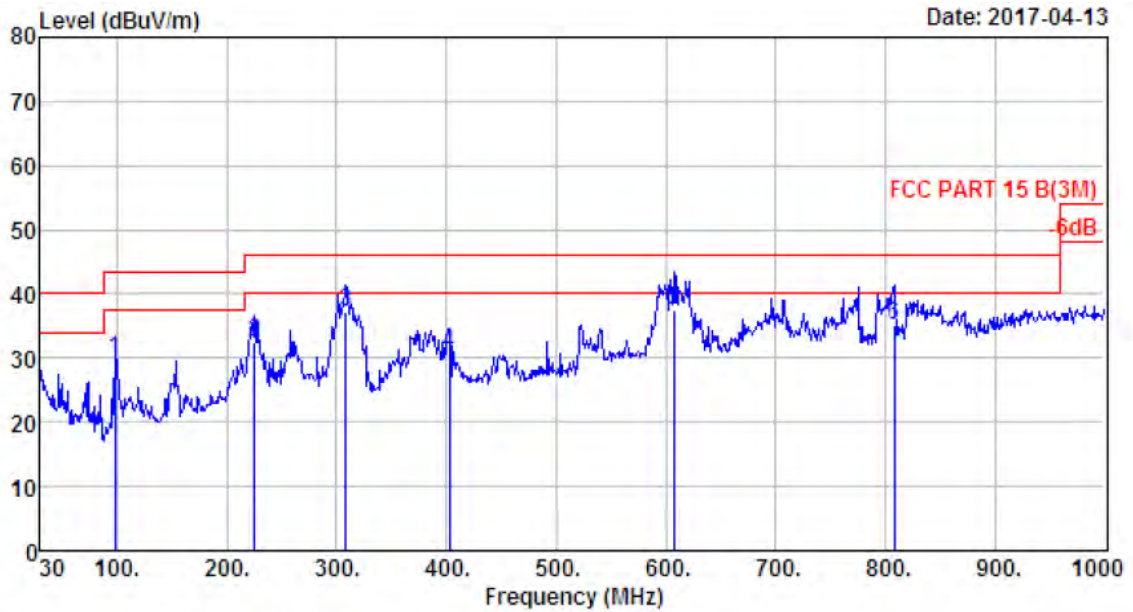
Site no. : 1# 966 Chamber Data no. : 1055
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	38.730	13.48	0.79	17.33	31.60	40.00	8.40	QP
2	95.960	8.92	1.31	21.81	32.04	43.50	11.46	QP
3	227.880	9.46	2.09	22.44	33.99	46.00	12.01	QP
4	304.510	13.10	2.37	16.49	31.96	46.00	14.04	QP
5	535.370	18.90	3.29	9.87	32.06	46.00	13.94	QP
6	597.450	19.55	3.39	13.10	36.04	46.00	9.96	QP



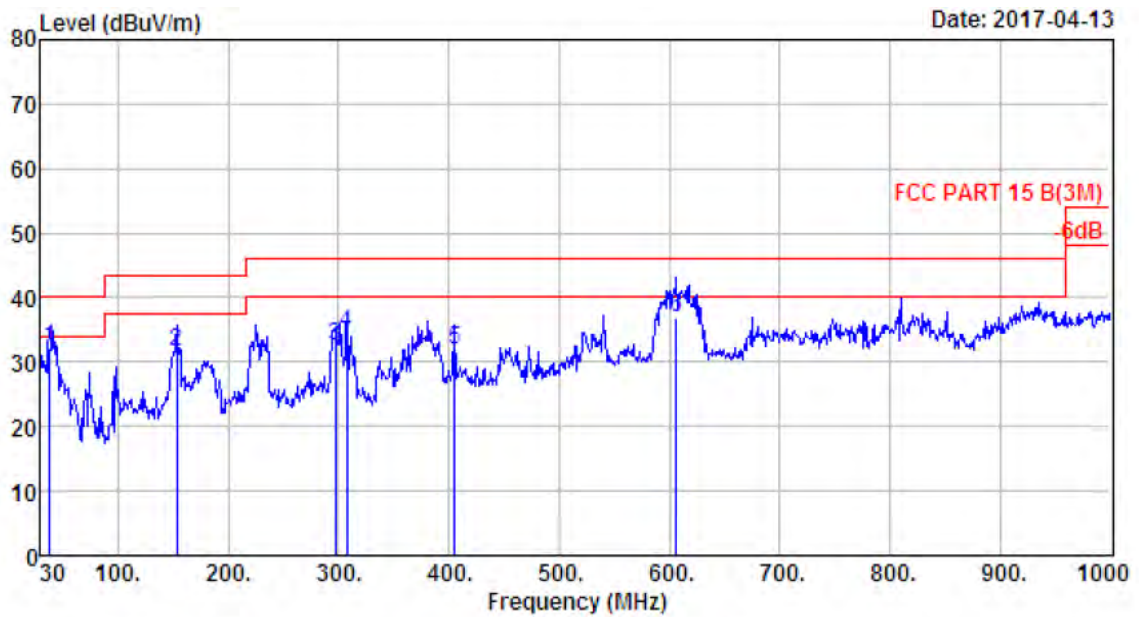
Site no. : 1# 966 Chamber Data no. : 1056
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUI : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.51	0.65	10.87	30.03	40.00	9.97	QP
2	97.900	9.13	1.33	18.66	29.12	43.50	14.38	QP
3	227.880	9.46	2.09	16.17	27.72	46.00	18.28	QP
4	306.450	13.13	2.35	13.89	29.37	46.00	16.63	QP
5	402.480	16.12	2.74	11.06	29.92	46.00	16.08	QP
6	602.000	19.66	3.41	16.00	39.07	46.00	6.93	QP



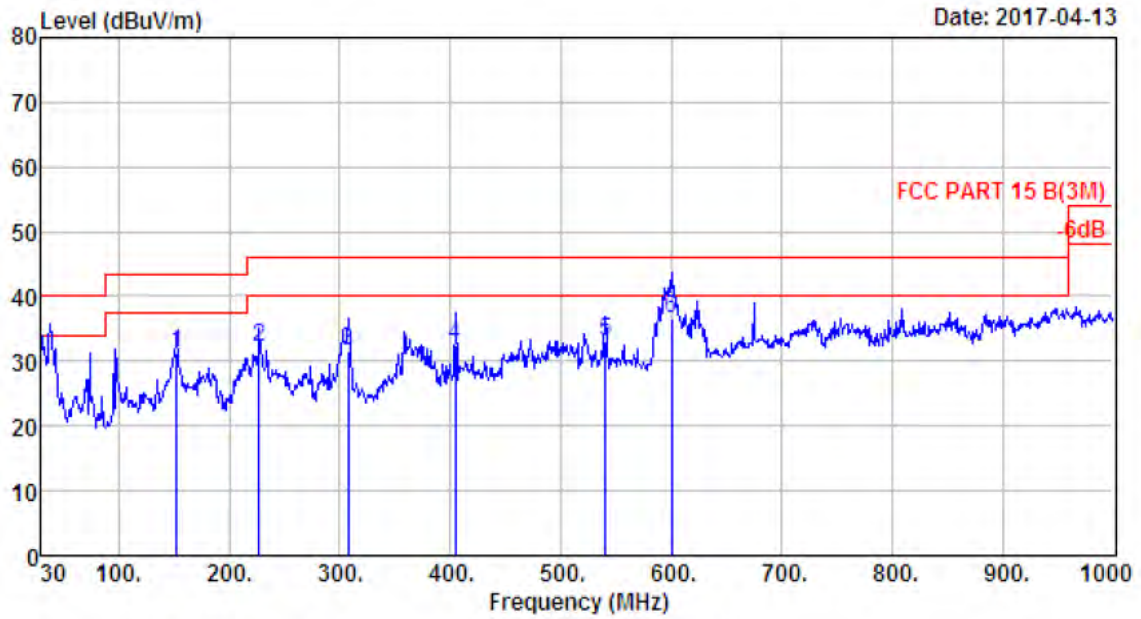
Site no. : 1# 966 Chamber Data no. : 1058
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	97.900	9.13	1.33	19.30	29.76	43.50	13.74	QP
2	224.970	9.48	2.00	21.09	32.57	46.00	13.43	QP
3	308.390	13.17	2.44	21.63	37.24	46.00	8.76	QP
4	402.480	16.12	2.74	11.82	30.68	46.00	15.32	QP
5	607.150	19.80	3.41	14.19	37.40	46.00	8.60	QP
6	807.940	22.31	3.80	9.13	35.24	46.00	10.76	QP



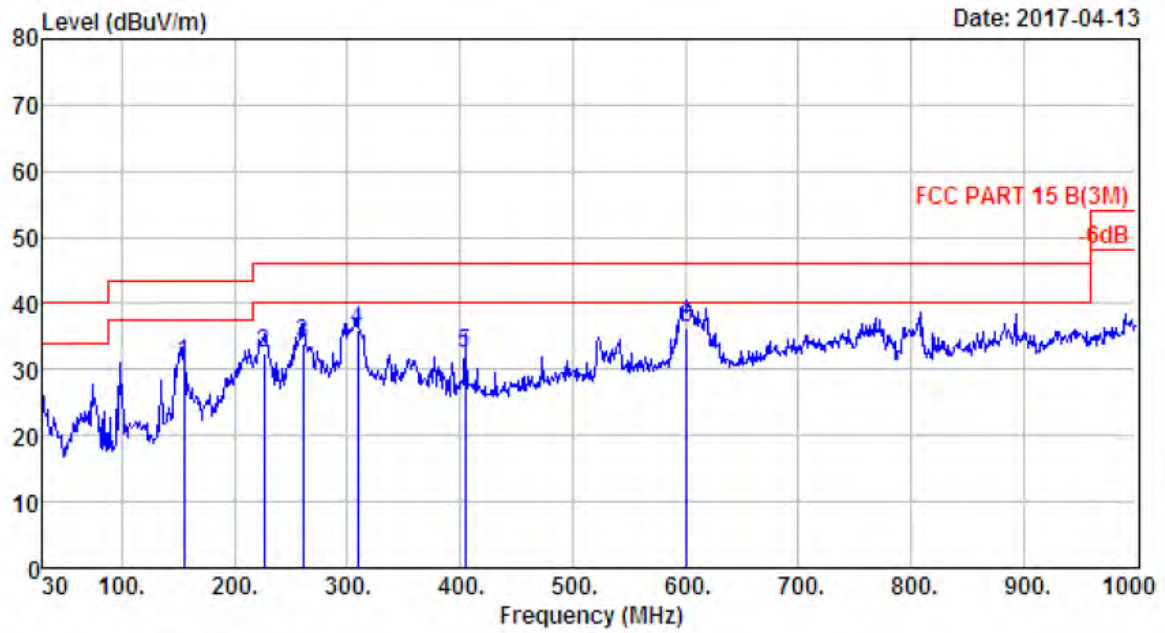
Site no. : 1# 966 Chamber Data no. : 1059
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	37.760	14.05	0.79	17.23	32.07	40.00	7.93	QP
2	153.190	10.75	1.63	19.21	31.59	43.50	11.91	QP
3	296.750	12.99	2.32	17.10	32.41	46.00	13.59	QP
4	307.420	13.15	2.40	18.92	34.47	46.00	11.53	QP
5	405.390	16.18	2.61	12.96	31.75	46.00	14.25	QP
6	606.180	19.77	3.40	13.83	37.00	46.00	9.00	QP



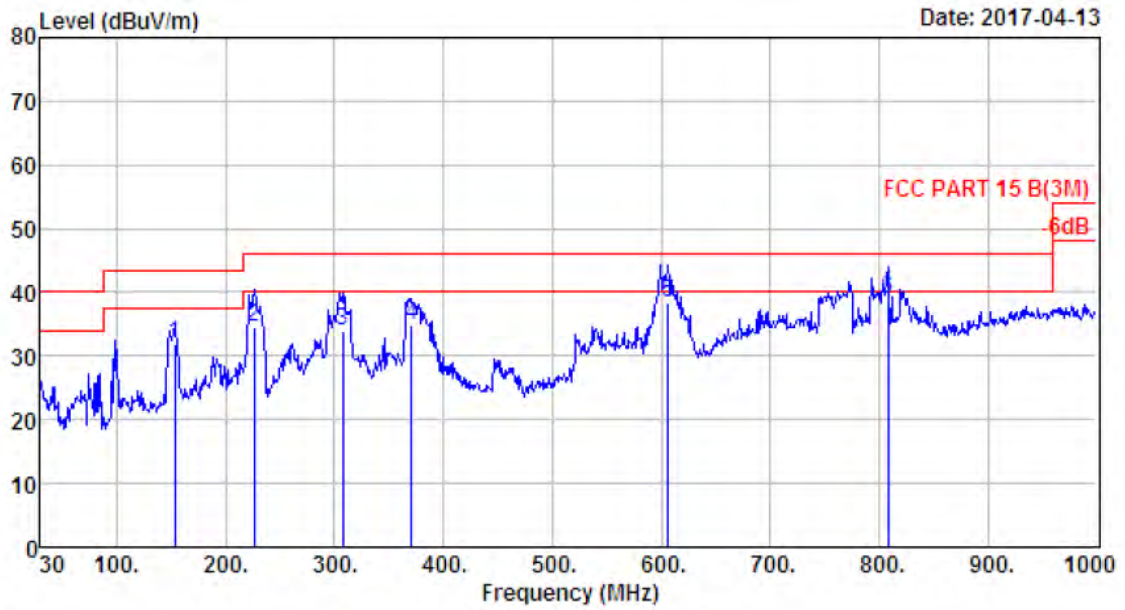
Site no. : 1# 966 Chamber Data no. : 1060
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH6 2437TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	152.220	10.78	1.62	18.87	31.27	43.50	12.23	QP
2	226.910	9.46	2.04	20.76	32.26	46.00	13.74	QP
3	307.420	13.15	2.40	16.17	31.72	46.00	14.28	QP
4	404.420	16.16	2.65	13.77	32.58	46.00	13.42	QP
5	540.220	19.46	3.26	10.32	33.04	46.00	12.96	QP
6	600.360	19.60	3.44	13.55	36.59	46.00	9.41	QP



Site no. : 1# 966 Chamber Data no. : 1061
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH6 2437TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	155.130	10.67	1.69	18.66	31.02	43.50	12.48	QP
2	225.940	9.47	1.99	20.87	32.33	46.00	13.67	QP
3	260.860	12.96	2.22	18.70	33.88	46.00	12.12	QP
4	309.360	13.18	2.36	20.33	35.87	46.00	10.13	QP
5	404.420	16.16	2.65	13.66	32.47	46.00	13.53	QP
6	601.330	19.63	3.41	13.40	36.44	46.00	9.56	QP



Site no. : 1# 966 Chamber Data no. : 1062
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Bible
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	153.190	10.75	1.63	19.44	31.82	43.50	11.68	QP
2	225.940	9.47	1.99	22.95	34.41	46.00	11.59	QP
3	307.420	13.15	2.40	18.41	33.96	46.00	12.04	QP
4	370.470	14.88	2.66	17.41	34.95	46.00	11.05	QP
5	606.180	19.77	3.40	15.26	38.43	46.00	7.57	QP
6	807.940	22.31	3.80	12.94	39.05	46.00	6.95	QP

Above 1G

Site no. : 1# 966 Chamber Data no. : 1081
 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 : WA43FBN1001
 Test Mode : IEEE 802.11b CH1 2412TX

	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	96.60	96.20	74.00	-22.20	Peak
2	4060.00	29.77	10.83	36.18	42.91	47.33	74.00	26.67	Peak
3	4824.00	31.28	11.84	35.66	36.84	44.30	74.00	29.70	Peak
4	7236.00	36.53	11.55	33.99	29.06	43.15	74.00	30.85	Peak
5	10214.00	38.48	11.47	34.50	29.80	45.25	74.00	28.75	Peak
6	13546.00	40.21	11.44	32.61	28.45	47.49	74.00	26.51	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. : 1# 966 Chamber Data no. : 1082
 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 : WA43FBN1001
 Test Mode : IEEE 802.11b CH1 2412TX

	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	100.90	100.50	74.00	-26.50	Peak
2	3975.00	29.60	10.81	36.42	40.48	44.47	74.00	29.53	Peak
3	4824.00	31.28	11.84	35.66	37.90	45.36	74.00	28.64	Peak
4	7236.00	36.53	11.55	33.99	34.32	48.41	74.00	25.59	Peak
5	8684.00	37.32	11.45	33.66	31.38	46.49	74.00	27.51	Peak
6	9670.00	38.01	11.67	35.09	31.46	46.05	74.00	27.95	Peak

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

Site no. : 1# 966 Chamber Data no. : 1083
 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 : WA43FBN1001
 Test Mode : IEEE 802.11b CH6 2437TX

	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	2437.00	27.60	6.67	34.85	86.24	85.66	74.00	-11.66	Peak
2	3992.00	29.65	10.89	36.38	41.66	45.82	74.00	28.18	Peak
3	4874.00	31.37	12.07	35.76	38.89	46.57	74.00	27.43	Peak
4	7311.00	36.55	11.57	34.12	30.24	44.24	74.00	29.76	Peak
5	9126.00	37.62	11.52	34.09	29.86	44.91	74.00	29.09	Peak
6	14005.00	41.46	10.90	33.01	27.24	46.59	74.00	27.41	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. : 1# 966 Chamber Data no. : 1084
 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 : WA43FBN1001
 Test Mode : IEEE 802.11b CH6 2437TX

	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	2437.00	27.60	6.67	34.85	95.95	95.37	74.00	-21.37	Peak
2	4026.00	29.71	10.86	36.28	40.23	44.52	74.00	29.48	Peak
3	4837.00	31.31	11.92	35.68	32.73	40.28	74.00	33.72	Peak
4	7311.00	36.55	11.57	34.12	28.97	42.97	74.00	31.03	Peak
5	8684.00	37.32	11.45	33.66	28.99	44.10	74.00	29.90	Peak
6	11370.00	39.28	11.02	33.51	26.63	43.42	74.00	30.58	Peak

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

Site no. : 1# 966 Chamber Data no. : 1085
 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 : WA43FBN1001
 Test Mode : IEEE 802.11b CH11 2462TX

	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	98.28	97.57	74.00	-23.57	Peak
2	4060.00	29.77	10.83	36.18	40.96	45.38	74.00	28.62	Peak
3	4924.00	31.45	12.29	35.91	38.81	46.64	74.00	27.36	Peak
4	7386.00	36.57	11.59	34.23	33.17	47.10	74.00	26.90	Peak
5	11234.00	39.37	11.12	33.25	28.54	45.78	74.00	28.22	Peak
6	13546.00	40.21	11.44	32.61	27.74	46.78	74.00	27.22	Peak

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

Site no. : 1# 966 Chamber Data no. : 1086
 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 : WA43FBN1001
 Test Mode : IEEE 802.11b CH11 2462TX

	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	91.67	90.96	74.00	-16.96	Peak
2	4060.00	29.77	10.83	36.18	43.22	47.64	74.00	26.36	Peak
3	4924.00	31.45	12.29	35.91	36.32	44.15	74.00	29.85	Peak
4	7386.00	36.57	11.59	34.23	31.18	45.11	74.00	28.89	Peak
5	8650.00	37.27	11.45	33.68	31.68	46.72	74.00	27.28	Peak
6	11200.00	39.39	11.14	33.24	29.48	46.77	74.00	27.23	Peak

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

Site no. : 1# 966 Chamber Data no. : 1087
 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 : WA43FBN1001
 Test Mode : IEEE 802.11g CH1 2412TX

	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	94.12	93.72	74.00	-19.72	Peak
2	4026.00	29.71	10.86	36.28	41.07	45.36	74.00	28.64	Peak
3	4824.00	31.28	11.84	35.66	41.09	48.55	74.00	25.45	Peak
4	7236.00	36.53	11.55	33.99	32.44	46.53	74.00	27.47	Peak
5	8735.00	37.40	11.45	33.76	29.12	44.21	74.00	29.79	Peak
6	14124.00	41.57	10.91	33.22	26.67	45.93	74.00	28.07	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. : 1# 966 Chamber Data no. : 1088
 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 : WA43FBN1001
 Test Mode : IEEE 802.11g CH1 2412TX

	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	89.11	88.71	74.00	-14.71	Peak
2	4824.00	31.28	11.84	35.66	41.05	48.51	74.00	25.49	Peak
3	7236.00	36.53	11.55	33.99	30.01	44.10	74.00	29.90	Peak
4	8684.00	37.32	11.45	33.66	30.83	45.94	74.00	28.06	Peak
5	11166.00	39.41	11.17	33.31	27.38	44.65	74.00	29.35	Peak
6	14124.00	41.57	10.91	33.22	27.44	46.70	74.00	27.30	Peak

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

Site no. : 1# 966 Chamber Data no. : 1089
 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 : WA43FBN1001
 Test Mode : IEEE 802.11g CH6 2437TX

	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	2437.00	27.60	6.67	34.85	92.69	92.11	74.00	-18.11	Peak
2	4874.00	31.37	12.07	35.76	42.72	50.40	74.00	23.60	Peak
3	7311.00	36.55	11.57	34.12	28.94	42.94	74.00	31.06	Peak
4	8650.00	37.27	11.45	33.68	28.75	43.79	74.00	30.21	Peak
5	11285.00	39.33	11.08	33.32	27.23	44.32	74.00	29.68	Peak
6	14090.00	41.54	10.91	33.13	27.31	46.63	74.00	27.37	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. : 1# 966 Chamber Data no. : 1090
 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 : WA43FBN1001
 Test Mode : IEEE 802.11g CH6 2437TX

	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	2437.00	27.60	6.67	34.85	91.27	90.69	74.00	-16.69	Peak
2	3975.00	29.60	10.81	36.42	40.75	44.74	74.00	29.26	Peak
3	4874.00	31.37	12.07	35.76	40.71	48.39	74.00	25.61	Peak
4	7311.00	36.55	11.57	34.12	26.56	40.56	74.00	33.44	Peak
5	10180.00	38.42	11.49	34.53	28.59	43.97	74.00	30.03	Peak
6	14056.00	41.51	10.90	33.06	26.94	46.29	74.00	27.71	Peak

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

Site no. : 1# 966 Chamber Data no. : 1091
 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 : WA43FBN1001
 Test Mode : IEEE 802.11g CH11 2462TX

	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	92.90	92.19	74.00	-18.19	Peak
2	4924.00	31.45	12.29	35.91	43.56	51.39	74.00	22.61	Peak
3	7386.00	36.57	11.59	34.23	30.07	44.00	74.00	30.00	Peak
4	8684.00	37.32	11.45	33.66	30.26	45.37	74.00	28.63	Peak
5	11200.00	39.39	11.14	33.24	28.14	45.43	74.00	28.57	Peak
6	13529.00	40.16	11.46	32.62	27.72	46.72	74.00	27.28	Peak

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

Site no. : 1# 966 Chamber Data no. : 1092
 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 : WA43FBN1001
 Test Mode : IEEE 802.11g CH11 2462TX

	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	93.53	92.82	74.00	-18.82	Peak
2	4924.00	31.45	12.29	35.91	40.07	47.90	74.00	26.10	Peak
3	7386.00	36.57	11.59	34.23	30.04	43.97	74.00	30.03	Peak
4	8480.00	36.91	11.45	34.18	32.47	46.65	74.00	27.35	Peak
5	11506.00	39.20	10.92	33.46	29.25	45.91	74.00	28.09	Peak
6	14345.00	41.76	10.92	33.39	28.24	47.53	74.00	26.47	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. : 1# 966 Chamber Data no. : 1093
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

	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	89.87	89.47	74.00	-15.47	Peak
2	4824.00	31.28	11.84	35.66	40.11	47.57	74.00	26.43	Peak
3	7386.00	36.57	11.59	34.23	30.20	44.13	74.00	29.87	Peak
4	8480.00	36.91	11.45	34.18	31.77	45.95	74.00	28.05	Peak
5	11115.00	39.44	11.20	33.55	28.38	45.47	74.00	28.53	Peak
6	14124.00	41.57	10.91	33.22	28.27	47.53	74.00	26.47	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. : 1# 966 Chamber Data no. : 1094
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

	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	93.07	92.67	74.00	-18.67	Peak
2	4824.00	31.28	11.84	35.66	42.49	49.95	74.00	24.05	Peak
3	7236.00	36.53	11.55	33.99	32.91	47.00	74.00	27.00	Peak
4	9585.00	37.92	11.69	35.00	29.92	44.53	74.00	29.47	Peak
5	11676.00	39.00	11.09	33.24	28.00	44.85	74.00	29.15	Peak
6	14056.00	41.51	10.90	33.06	27.95	47.30	74.00	26.70	Peak

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

Site no. : 1# 966 Chamber Data no. : 1095
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

	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	2437.00	27.60	6.67	34.85	90.92	90.34	74.00	-16.34	Peak
2	4060.00	29.77	10.83	36.18	42.36	46.78	74.00	27.22	Peak
3	4874.00	31.37	12.07	35.76	41.85	49.23	74.00	24.77	Peak
4	7311.00	36.55	11.57	34.12	30.77	44.77	74.00	29.23	Peak
5	8684.00	37.32	11.45	33.66	30.32	45.43	74.00	28.57	Peak
6	11200.00	39.39	11.14	33.24	29.43	46.72	74.00	27.28	Peak

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

Site no. : 1# 966 Chamber Data no. : 1096
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

	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	2437.00	27.60	6.67	34.85	91.47	90.89	74.00	-16.89	Peak
2	4874.00	31.37	12.07	35.76	40.61	48.29	74.00	25.71	Peak
3	7311.00	36.55	11.57	34.12	29.99	43.99	74.00	30.01	Peak
4	8650.00	37.27	11.45	33.68	31.56	46.60	74.00	27.40	Peak
5	10996.00	39.52	11.29	34.11	29.49	46.19	74.00	27.81	Peak
6	14090.00	41.54	10.91	33.13	28.72	48.04	74.00	25.96	Peak

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

Site no. : 1# 966 Chamber Data no. : 1097
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	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	93.66	92.95	74.00	-18.95	Peak
2	4924.00	31.45	12.29	35.91	41.89	49.72	74.00	24.28	Peak
3	7386.00	36.57	11.59	34.23	32.48	46.41	74.00	27.59	Peak
4	9126.00	37.62	11.52	34.09	30.32	45.37	74.00	28.63	Peak
5	11200.00	39.39	11.14	33.24	28.56	45.85	74.00	28.15	Peak
6	13614.00	40.40	11.36	32.68	29.34	48.42	74.00	25.58	Peak

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

Site no. : 1# 966 Chamber Data no. : 1098
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	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	92.03	91.32	74.00	-17.32	Peak
2	3975.00	29.60	10.81	36.42	41.30	45.29	74.00	28.71	Peak
3	4924.00	31.45	12.29	35.91	40.96	48.79	74.00	25.21	Peak
4	7386.00	36.57	11.59	34.23	30.44	44.37	74.00	29.63	Peak
5	8684.00	37.32	11.45	33.66	30.03	45.14	74.00	28.86	Peak
6	11285.00	39.33	11.08	33.32	28.74	45.83	74.00	28.17	Peak

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

Site no. : 1# 966 Chamber Data no. : 1099
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.60	6.66	34.74	89.90	89.42	74.00	-15.42	Peak
2	4844.00	31.31	11.92	35.68	40.65	48.20	74.00	25.80	Peak
3	7266.00	36.54	11.56	34.05	29.71	43.76	74.00	30.24	Peak
4	8684.00	37.32	11.45	33.66	31.04	46.15	74.00	27.85	Peak
5	11676.00	39.00	11.09	33.24	28.72	45.57	74.00	28.43	Peak
6	14294.00	41.71	10.92	33.42	27.78	46.99	74.00	27.01	Peak

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

Site no. : 1# 966 Chamber Data no. : 1099
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.60	6.66	34.74	89.90	89.42	74.00	-15.42	Peak
2	4844.00	31.31	11.92	35.68	40.65	48.20	74.00	25.80	Peak
3	7266.00	36.54	11.56	34.05	29.71	43.76	74.00	30.24	Peak
4	8684.00	37.32	11.45	33.66	31.04	46.15	74.00	27.85	Peak
5	11676.00	39.00	11.09	33.24	28.72	45.57	74.00	28.43	Peak
6	14294.00	41.71	10.92	33.42	27.78	46.99	74.00	27.01	Peak

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

Site no. : 1# 966 Chamber Data no. : 1101
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH6 2437TX

	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	2437.00	27.60	6.67	34.85	89.30	88.72	74.00	-14.72	Peak
2	4060.00	29.77	10.83	36.18	40.96	45.38	74.00	28.62	Peak
3	4874.00	31.37	12.07	35.76	41.73	49.41	74.00	24.59	Peak
4	7311.00	36.55	11.57	34.12	29.72	43.72	74.00	30.28	Peak
5	11115.00	39.44	11.20	33.55	27.57	44.66	74.00	29.34	Peak
6	14175.00	41.61	10.91	33.35	26.77	45.94	74.00	28.06	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. : 1# 966 Chamber Data no. : 1102
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH6 2437TX

	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	2437.00	27.60	6.67	34.85	88.46	87.88	74.00	-13.88	Peak
2	4060.00	29.77	10.83	36.18	39.35	43.77	74.00	30.23	Peak
3	4874.00	31.37	12.07	35.76	42.05	49.73	74.00	24.27	Peak
4	7311.00	36.55	11.57	34.12	29.53	43.53	74.00	30.47	Peak
5	8514.00	36.96	11.45	34.07	30.94	45.28	74.00	28.72	Peak
6	10350.00	38.71	11.39	34.53	28.26	43.83	74.00	30.17	Peak

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

Site no. : 1# 966 Chamber Data no. : 1103
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

	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	2452.00	27.59	6.67	34.85	85.97	85.38	74.00	-11.38	Peak
2	4904.00	31.42	12.22	35.87	38.02	45.79	74.00	28.21	Peak
3	7356.00	36.56	11.58	34.19	28.30	42.25	74.00	31.75	Peak
4	8684.00	37.32	11.45	33.66	29.35	44.46	74.00	29.54	Peak
5	10945.00	39.46	11.29	34.13	28.20	44.82	74.00	29.18	Peak
6	13614.00	40.40	11.36	32.68	27.77	46.85	74.00	27.15	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. : 1# 966 Chamber Data no. : 1104
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

	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	2452.00	27.59	6.67	34.85	89.52	88.93	74.00	-14.93	Peak
2	3975.00	29.60	10.81	36.42	40.54	44.53	74.00	29.47	Peak
3	4904.00	31.42	12.22	35.87	43.78	51.55	74.00	22.45	Peak
4	7356.00	36.56	11.58	34.19	32.43	46.38	74.00	27.62	Peak
5	8735.00	37.40	11.45	33.76	31.08	46.17	74.00	27.83	Peak
6	10996.00	39.52	11.29	34.11	30.08	46.78	74.00	27.22	Peak

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

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

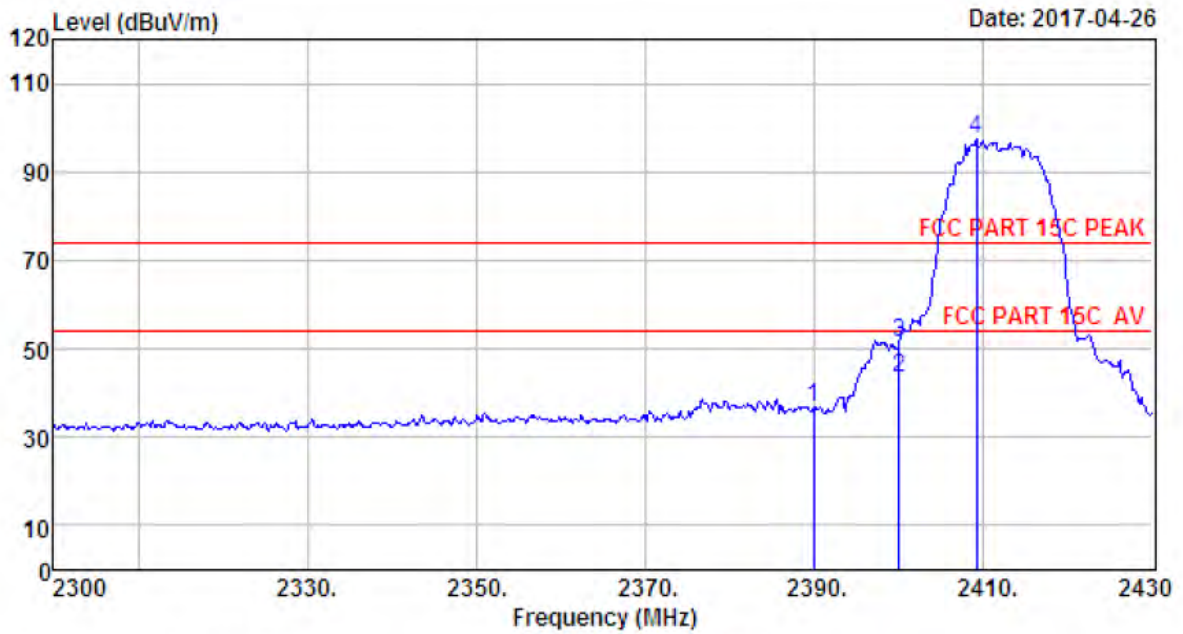
5.2 Test Procedure

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.)

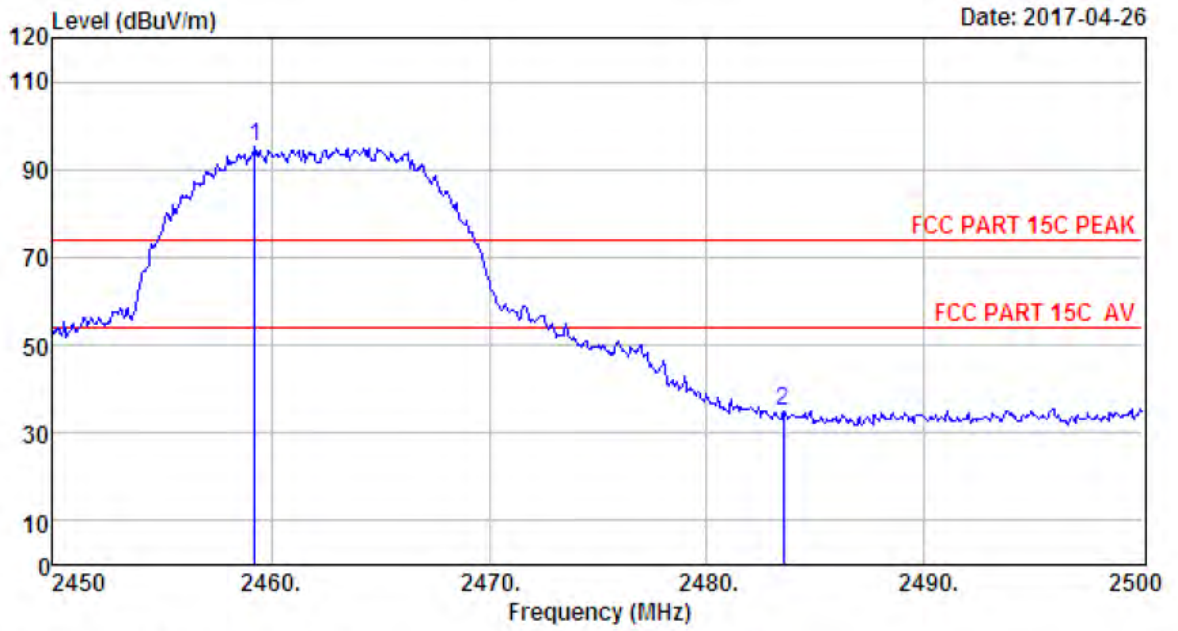
- Note: 1、 For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
- 2、 The frequency 2412MHz. 2422MHz . 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software,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



Site no. : 1# 966 Chamber Data no. : 1106
 Dis. / Ant. : 3m ANI 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 : WA43FBN1001
 Test Mode : IEEE 802.11b CH1 2412TX

	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	2389.96	27.64	6.62	34.62	37.07	36.71	74.00	37.29	Peak
2	2399.97	27.61	6.62	34.64	43.75	43.34	54.00	10.66	Average
3	2399.97	27.61	6.62	34.64	51.75	51.34	74.00	22.66	Peak
4	2409.20	27.60	6.64	34.64	98.02	97.62	74.00	-23.62	Peak

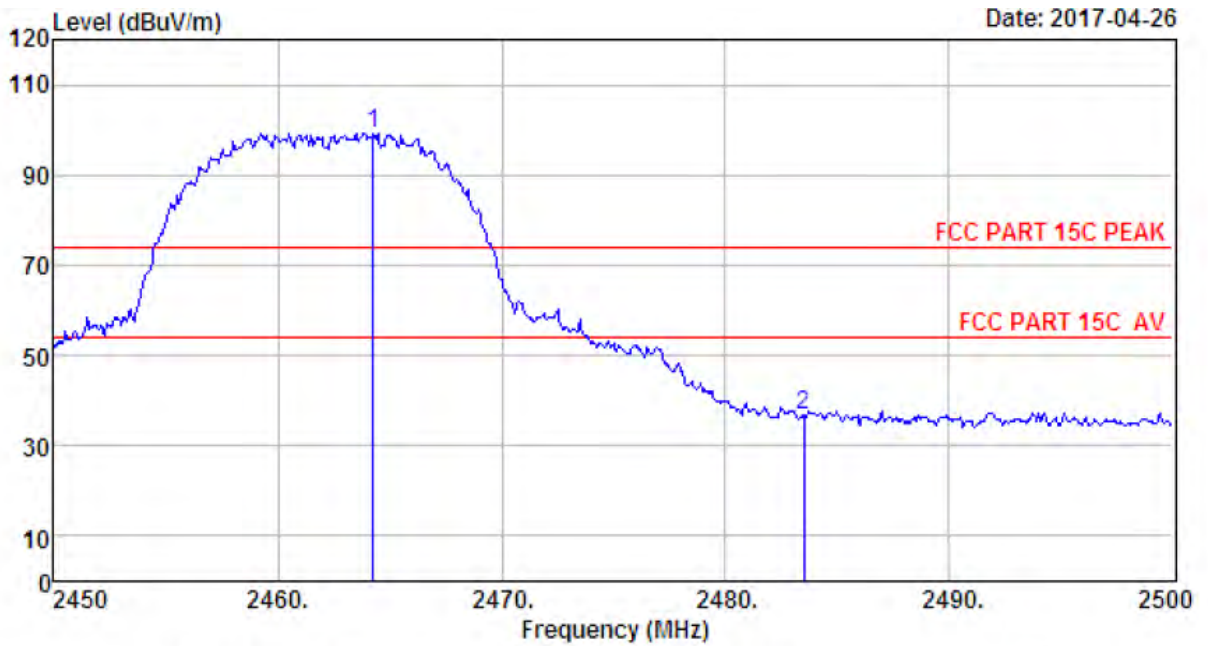
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1107
 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 : WA43FBN1001
 Test Mode : IEEE 802.11b CH11 2462TX

	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	2459.25	27.59	6.69	34.98	95.83	95.13	74.00	-21.13	Peak
2	2483.50	27.58	6.71	35.11	35.65	34.83	74.00	39.17	Peak

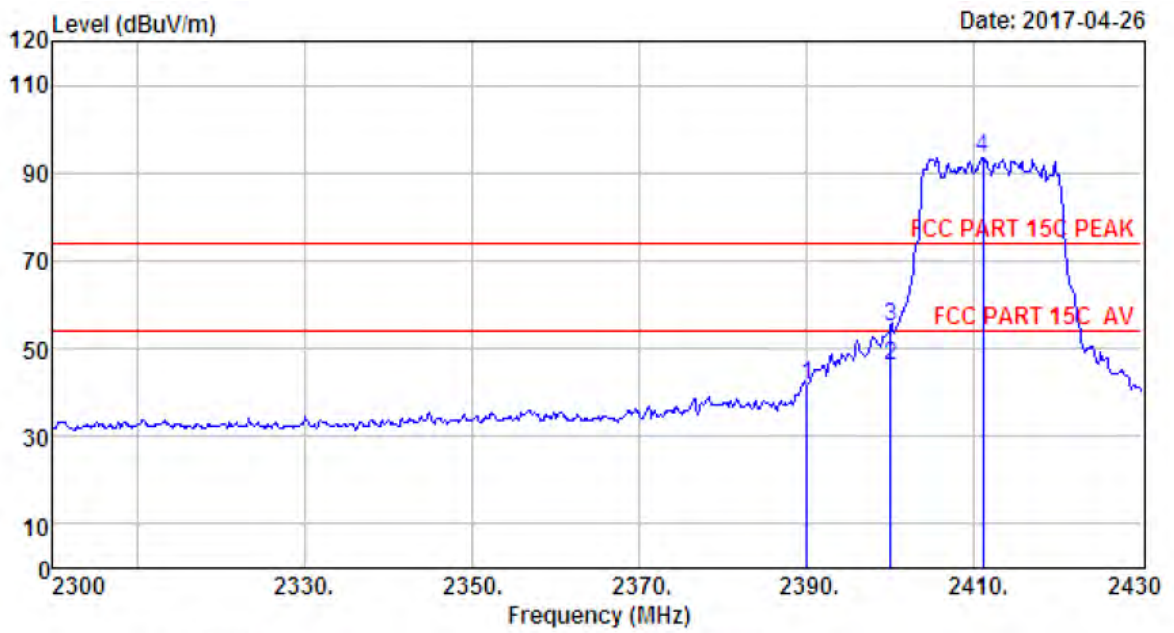
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1108
 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 : WA43FBN1001
 Test Mode : IEEE 802.11b CH11 2462TX

	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	2464.25	27.58	6.69	34.98	100.04	99.33	74.00	-25.33	Peak
2	2483.50	27.58	6.71	35.11	37.56	36.74	74.00	37.26	Peak

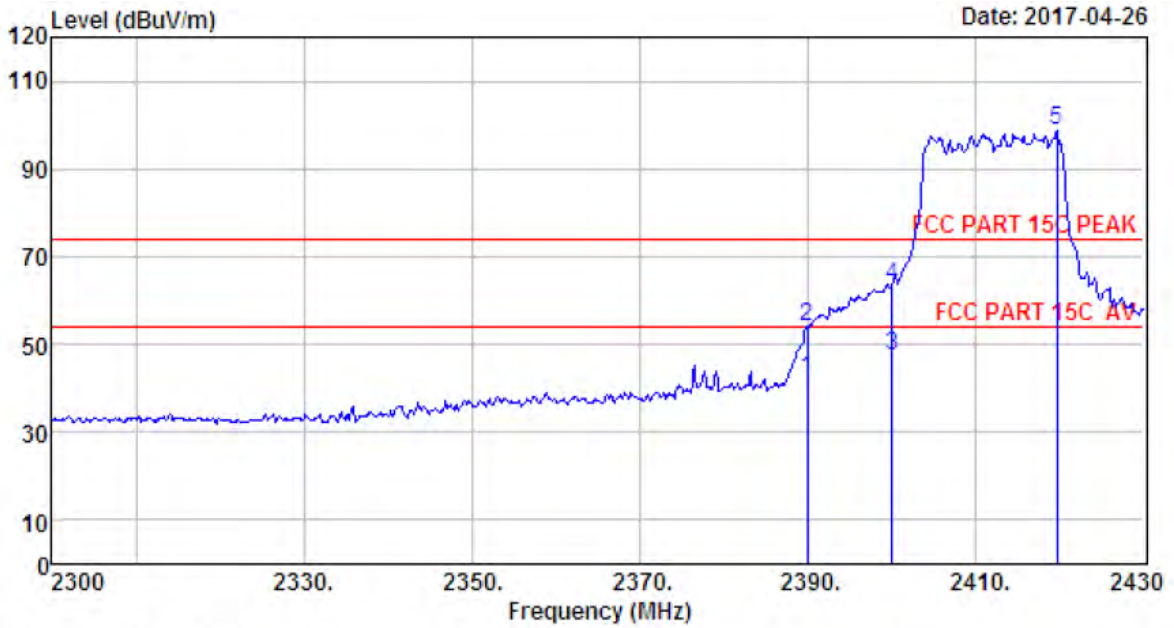
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1109
 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 : WA43FBN1001
 Test Mode : IEEE 802.11g CH1 2412TX

	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	42.15	41.79	74.00	32.21	Peak
2	2400.00	27.61	6.62	34.64	46.24	45.83	54.00	8.17	Average
3	2400.00	27.61	6.62	34.64	55.24	54.83	74.00	19.17	Peak
4	2411.02	27.60	6.64	34.64	93.81	93.41	74.00	-19.41	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. : 1# 966 Chamber Data no. : 1110
 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
 EUI : LED TV
 Power : AC 120V/60Hz
 M/N : WA43FBN1001
 Test Mode : IEEE 802.11g CH1 2412TX

	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	2389.96	27.64	6.62	34.62	42.48	42.12	54.00	11.88	Average
2	2389.96	27.64	6.62	34.62	54.48	54.12	74.00	19.88	Peak
3	2399.97	27.61	6.62	34.64	47.82	47.41	54.00	6.59	Average
4	2399.97	27.61	6.62	34.64	63.82	63.41	74.00	10.59	Peak
5	2419.60	27.60	6.66	34.74	99.02	98.54	74.00	-24.54	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.



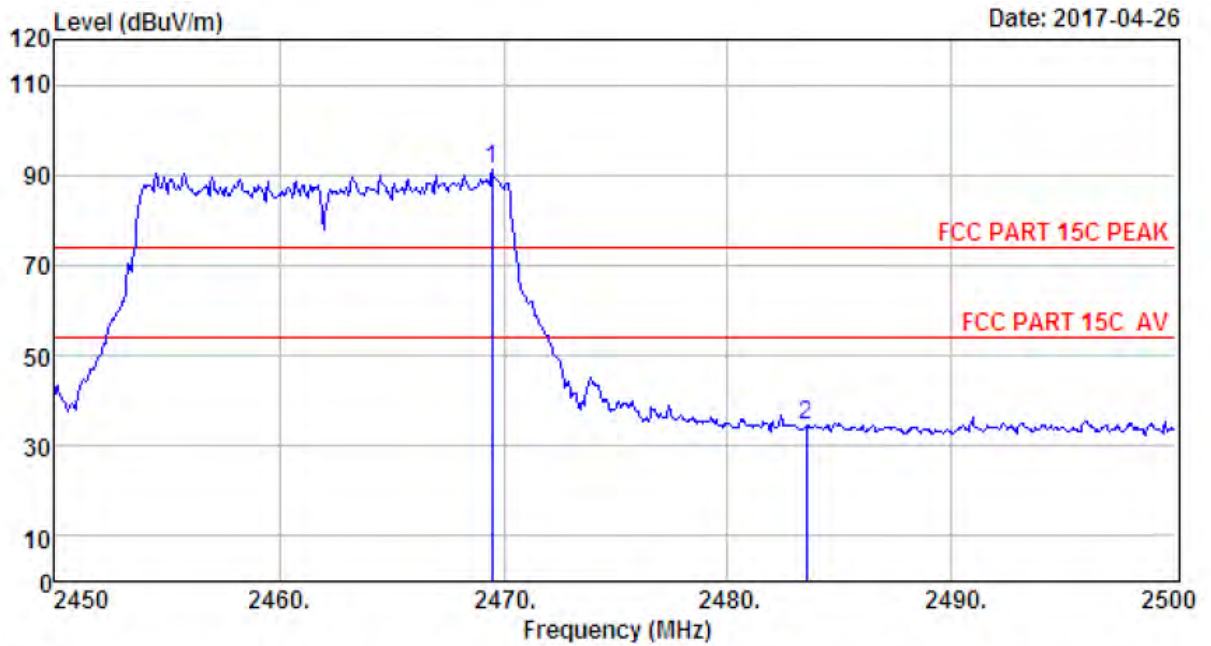
Date: 2017-04-26

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Site no.       : 1# 966 Chamber           Data no.      : 1111
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           : WA43FBN1001
Test Mode     : IEEE 802.11g CH11 2462TX
    
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	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	2469.50	27.58	6.69	34.98	99.96	99.25	74.00	-25.25	Peak
2	2483.50	27.58	6.71	35.11	44.19	43.37	74.00	30.63	Peak

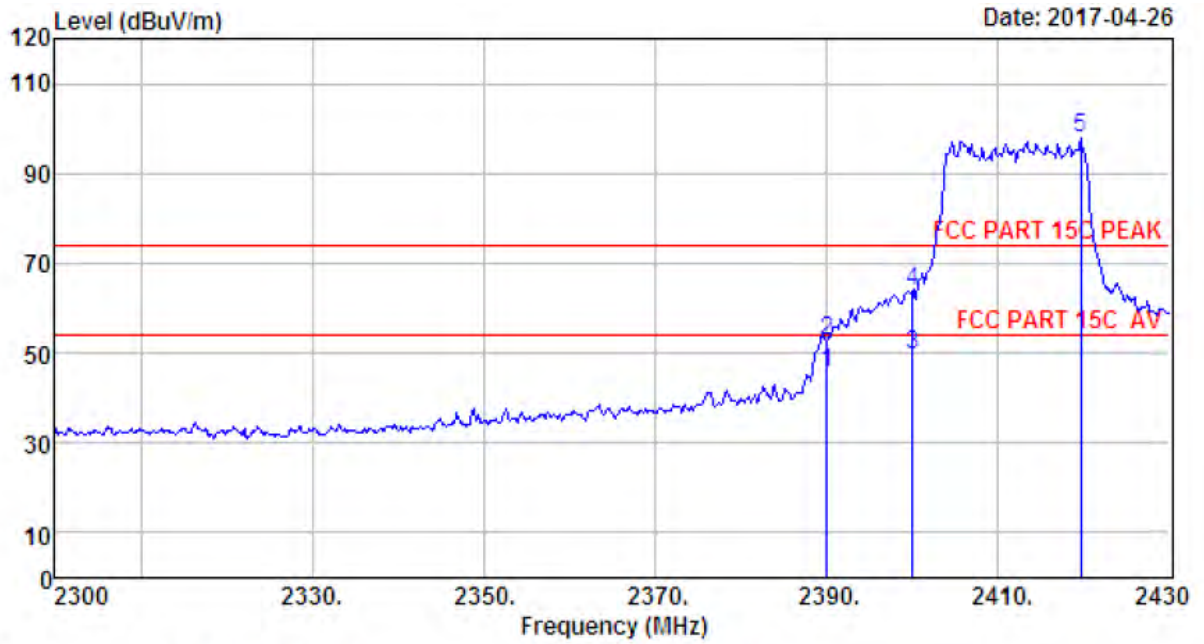
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1112
 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 : WA43FBN1001
 Test Mode : IEEE 802.11g CH11 2462TX

	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	2469.50	27.58	6.69	34.98	92.15	91.44	74.00	-17.44	Peak
2	2483.50	27.58	6.71	35.11	35.36	34.54	74.00	39.46	Peak

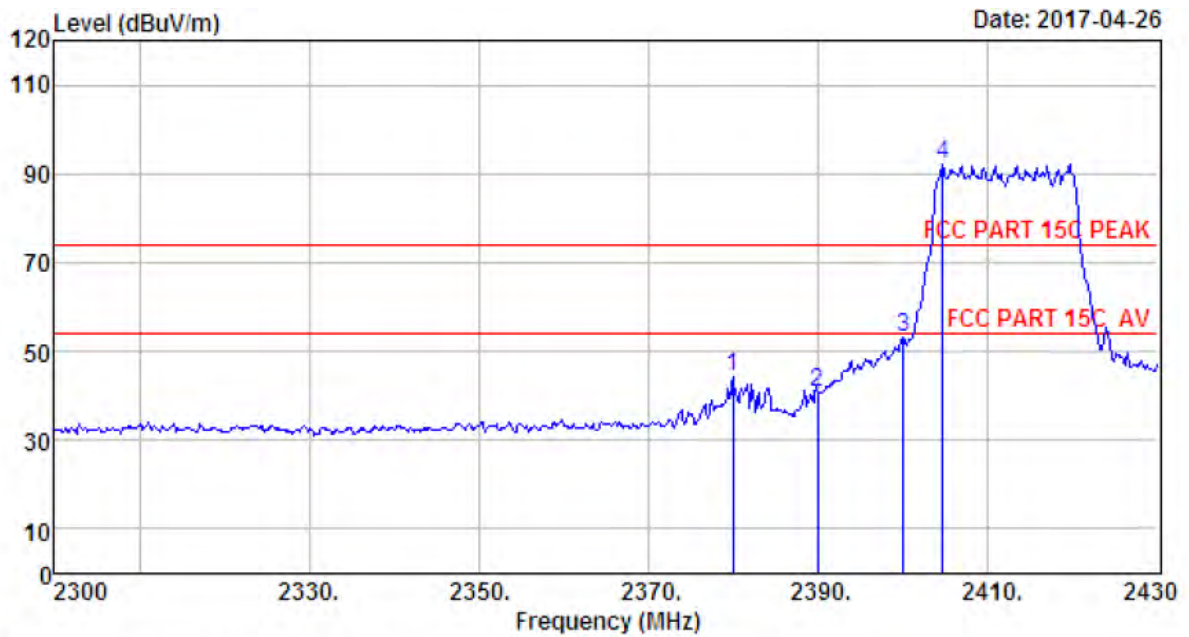
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1113
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

	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	46.00	45.64	54.00	8.36	Average
2	2390.00	27.64	6.62	34.62	53.00	52.64	74.00	21.36	Peak
3	2400.00	27.61	6.62	34.64	50.08	49.67	54.00	4.33	Average
4	2400.00	27.61	6.62	34.64	64.08	63.67	74.00	10.33	Peak
5	2419.60	27.60	6.66	34.74	98.29	97.81	74.00	-23.81	Peak

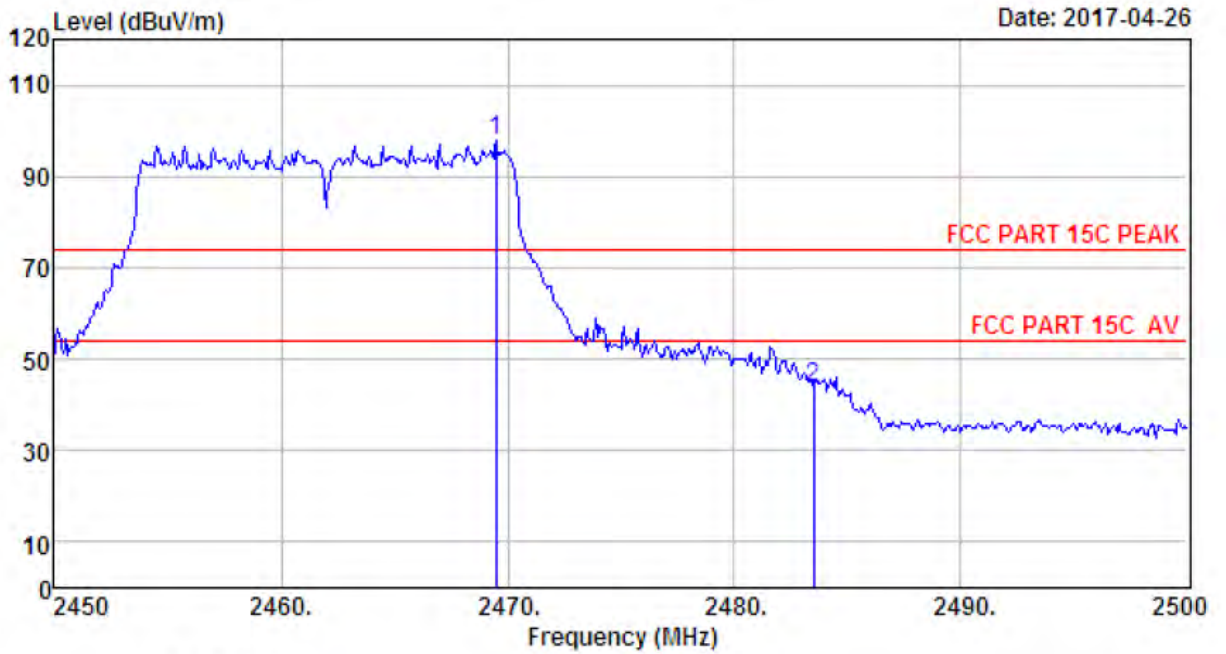
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1114
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

	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	2379.95	27.64	6.60	34.59	44.79	44.44	74.00	29.56	Peak
2	2389.96	27.64	6.62	34.62	40.98	40.62	74.00	33.38	Peak
3	2399.97	27.61	6.62	34.64	53.36	52.95	74.00	21.05	Peak
4	2404.65	27.61	6.64	34.64	92.44	92.05	74.00	-18.05	Peak

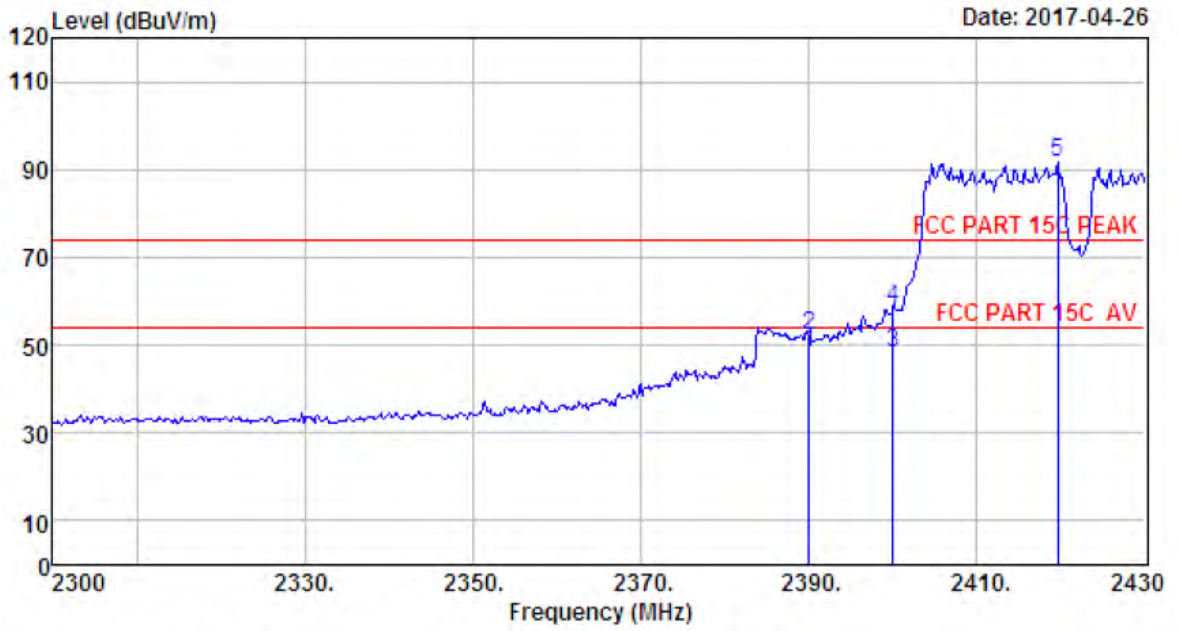
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1116
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	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	2469.50	27.58	6.69	34.98	98.55	97.84	74.00	-23.84	Peak
2	2483.50	27.58	6.71	35.11	44.66	43.84	74.00	30.16	Peak

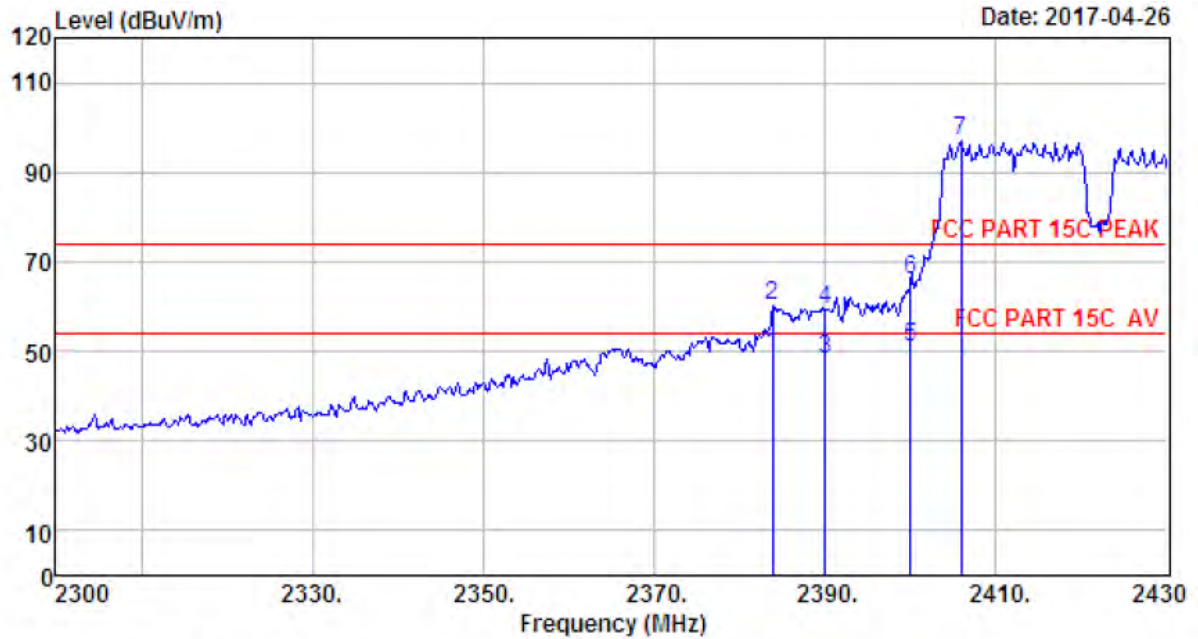
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1117
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

	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	48.48	48.12	54.00	5.88	Average
2	2390.00	27.64	6.62	34.62	52.48	52.12	74.00	21.88	Peak
3	2400.00	27.61	6.62	34.64	48.89	48.48	54.00	5.52	Average
4	2400.00	27.61	6.62	34.64	58.89	58.48	74.00	15.52	Peak
5	2419.60	27.60	6.66	34.74	92.24	91.76	74.00	-17.76	Peak

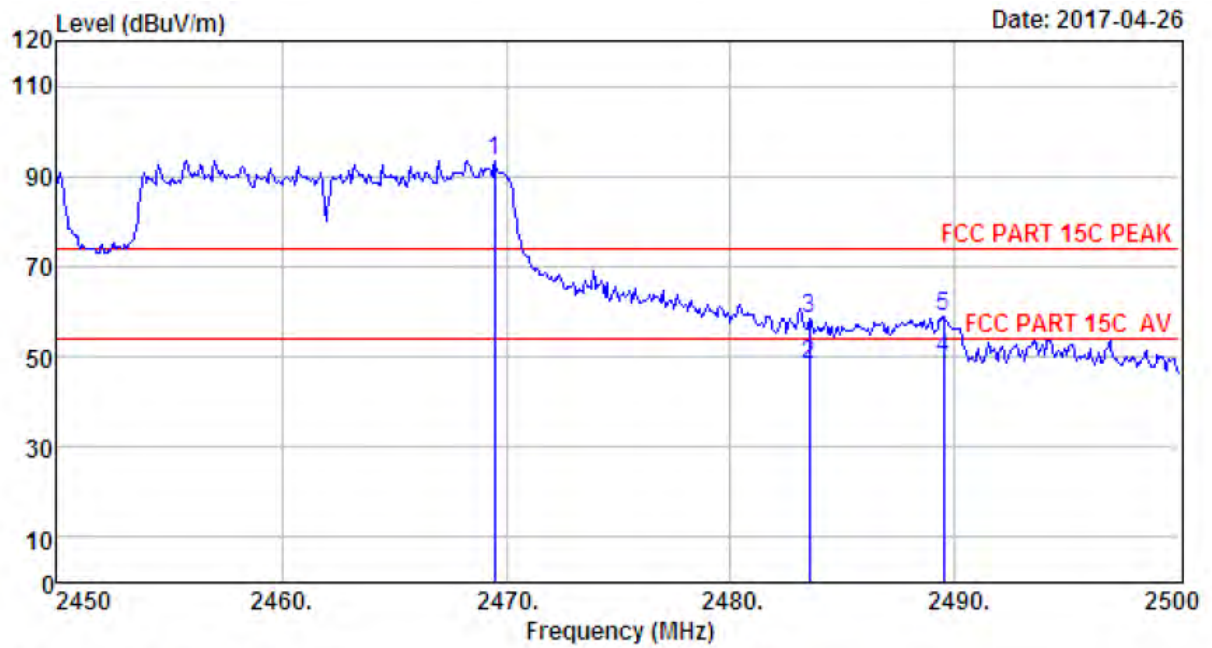
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1118
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

	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	2383.85	27.64	6.60	34.62	49.68	49.30	54.00	4.70	Average
2	2383.85	27.64	6.60	34.62	60.68	60.30	74.00	13.70	Peak
3	2390.00	27.64	6.62	34.62	48.68	48.32	54.00	5.68	Average
4	2390.00	27.64	6.62	34.62	59.68	59.32	74.00	14.68	Peak
5	2400.00	27.61	6.62	34.64	51.37	50.96	54.00	3.04	Average
6	2400.00	27.61	6.62	34.64	66.37	65.96	74.00	8.04	Peak
7	2405.95	27.61	6.64	34.64	97.41	97.02	74.00	-23.02	Peak

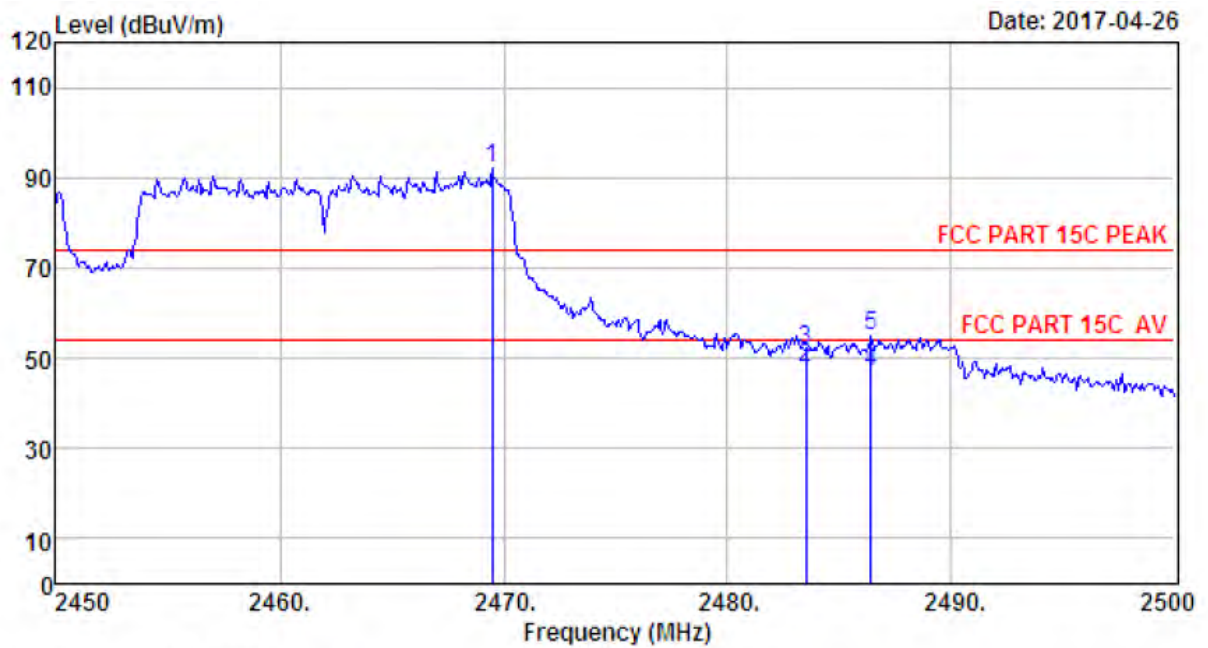
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1119
 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

	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	2469.50	27.58	6.69	34.98	94.36	93.65	74.00	-19.65	Peak
2	2483.50	27.58	6.71	35.11	49.19	48.37	54.00	5.63	Average
3	2483.50	27.58	6.71	35.11	59.19	58.37	74.00	15.63	Peak
4	2489.50	27.58	6.73	35.24	50.73	49.80	54.00	4.20	Average
5	2489.50	27.58	6.73	35.24	60.00	59.07	74.00	14.93	Peak

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



Site no. : 1# 966 Chamber Data no. : 1120
 Dis. / Ant. : 3m ANI 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 : WA43FBN1001
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

	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	2469.50	27.58	6.69	34.98	92.62	91.91	74.00	-17.91	Peak
2	2483.50	27.58	6.71	35.11	48.43	47.61	54.00	6.39	Average
3	2483.50	27.58	6.71	35.11	52.43	51.61	74.00	22.39	Peak
4	2486.40	27.58	6.71	35.11	47.62	46.80	54.00	7.20	Average
5	2486.40	27.58	6.71	35.11	55.85	55.03	74.00	18.97	Peak

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

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

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

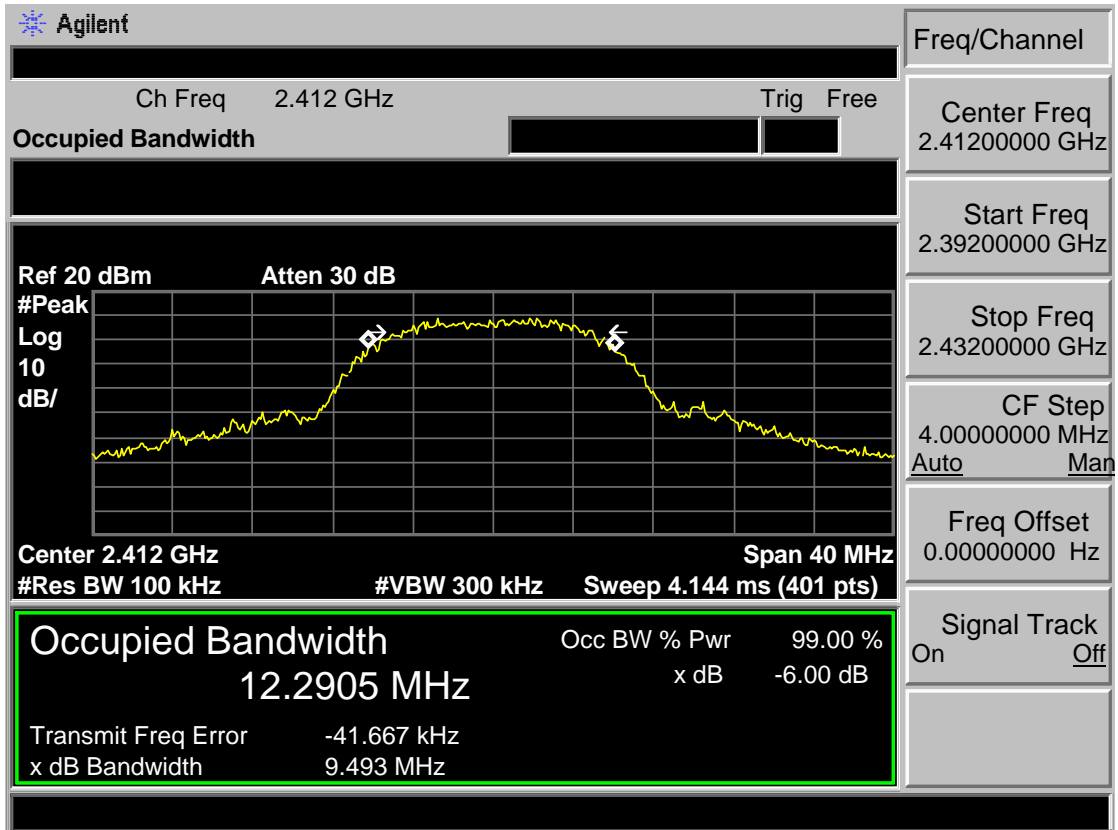
6.3 Test Result

EUT: LED TV			
M/N: WA43FBN1001			
Test date: 2017-04-18		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	6dB bandwidth (MHz)	Limit (KHz)
IEEE 802.11 b	CH1	9.493	>500
	CH6	9.486	>500
	CH11	9.968	>500
IEEE 802.11 g	CH1	16.489	>500
	CH6	16.456	>500
	CH11	16.470	>500
IEEE 802.11 n HT 20	CH1	16.512	>500
	CH6	16.461	>500
	CH11	16.506	>500
IEEE 802.11 n HT 40	CH3	36.203	>500
	CH6	36.464	>500
	CH9	36.457	>500
Conclusion : PASS			

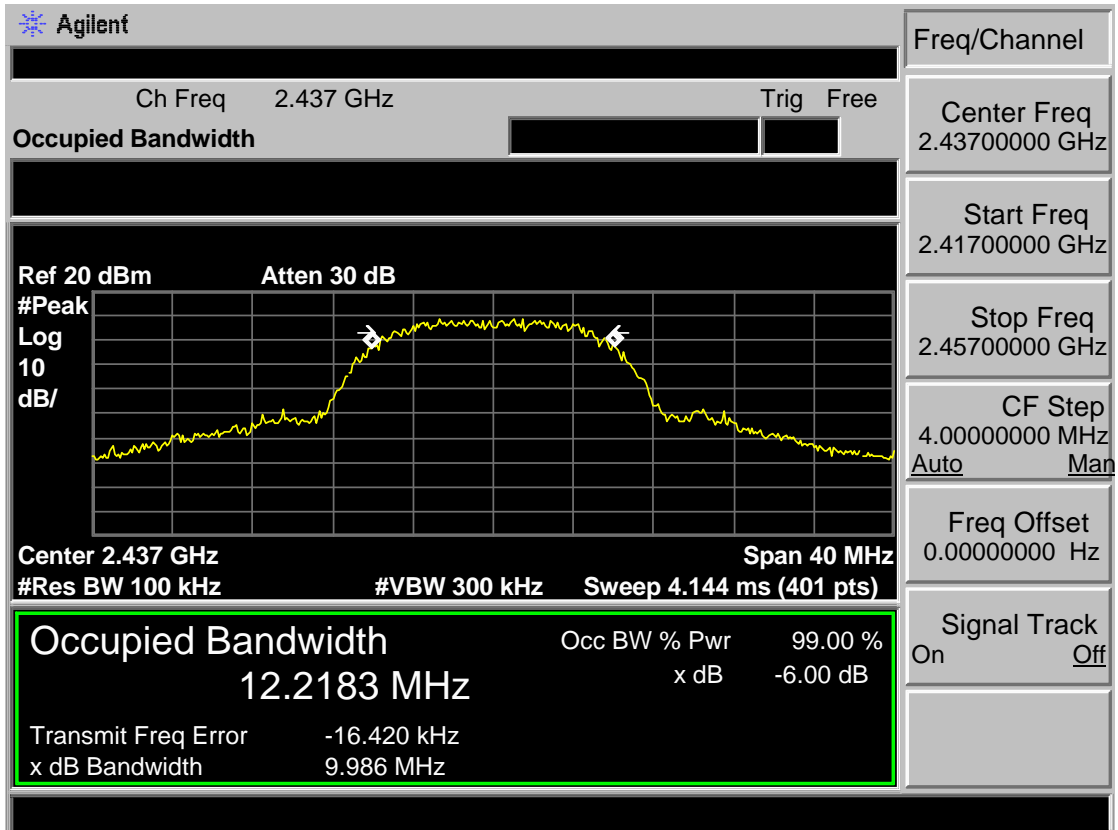
EUT: LED TV			
M/N: WA43FBN1001			
Test date: 2017-04-18		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	20dB bandwidth (MHz)	Limit (KHz)
IEEE 802.11 b	CH1	14.141	/
	CH6	14.101	/
	CH11	14.238	/
IEEE 802.11 g	CH1	18.644	/
	CH6	18.720	/
	CH11	18.510	/
IEEE 802.11 n HT 20	CH1	18.972	/
	CH6	18.394	/
	CH11	19.009	/
IEEE 802.11 n HT 40	CH3	41.207	/
	CH6	40.607	/
	CH9	40.968	/
Conclusion : PASS			

6.4 6dB Test Data

Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
12.2466 MHz		x dB	-6.00 dB
Transmit Freq Error	-11.554 kHz		
x dB Bandwidth	9.968 MHz		

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11g 2412MHz

Agilent

Ch Freq 2.412 GHz Trig Free

Occupied Bandwidth

Center 2.412 GHz Span 40 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.5056 MHz		x dB	-6.00 dB
Transmit Freq Error	16.891 kHz		
x dB Bandwidth	16.489 MHz		

Freq/Channel

Center Freq
2.41200000 GHz

Start Freq
2.39200000 GHz

Stop Freq
2.43200000 GHz

CF Step
4.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11g 2437MHz

Agilent

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Center 2.437 GHz Span 40 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.4613 MHz		x dB	-6.00 dB
Transmit Freq Error	878.544 Hz		
x dB Bandwidth	16.456 MHz		

Freq/Channel

Center Freq
2.43700000 GHz

Start Freq
2.41700000 GHz

Stop Freq
2.45700000 GHz

CF Step
4.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11g 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.4317 MHz		x dB	-6.00 dB
Transmit Freq Error	-5.874 kHz		
x dB Bandwidth	16.470 MHz		

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11n HT20 2412MHz

Agilent

Ch Freq 2.412 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak

Log 10 dB/

Center 2.412 GHz Span 40 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.5199 MHz		x dB	-6.00 dB
Transmit Freq Error	-12.738 kHz		
x dB Bandwidth	16.512 MHz		

Freq/Channel

Center Freq 2.41200000 GHz

Start Freq 2.39200000 GHz

Stop Freq 2.43200000 GHz

CF Step 4.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11n HT20 2437MHz

Agilent

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak

Log 10 dB/

Center 2.437 GHz Span 40 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.4761 MHz		x dB	-6.00 dB
Transmit Freq Error	-16.657 kHz		
x dB Bandwidth	16.461 MHz		

Freq/Channel

Center Freq 2.43700000 GHz

Start Freq 2.41700000 GHz

Stop Freq 2.45700000 GHz

CF Step 4.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11n HT20 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.4475 MHz		x dB	-6.00 dB
Transmit Freq Error	-2.024 kHz		
x dB Bandwidth	16.506 MHz		

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11n HT40 2422MHz

Agilent

Ch Freq 2.422 GHz Trig Free

Occupied Bandwidth

Center 2.422 GHz Span 50 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 5.18 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
36.3012 MHz		x dB	-6.00 dB
Transmit Freq Error	-91.926 kHz		
x dB Bandwidth	36.203 MHz		

Freq/Channel

Center Freq
2.42200000 GHz

Start Freq
2.39700000 GHz

Stop Freq
2.44700000 GHz

CF Step
5.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11n HT40 2437MHz

Agilent

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Center 2.437 GHz Span 50 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 5.18 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
36.3813 MHz		x dB	-6.00 dB
Transmit Freq Error	-65.611 kHz		
x dB Bandwidth	36.464 MHz		

Freq/Channel

Center Freq
2.43700000 GHz

Start Freq
2.41200000 GHz

Stop Freq
2.46200000 GHz

CF Step
5.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11n HT40 2452MHz

Agilent

Ch Freq 2.452 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.452 GHz Span 50 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 5.18 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
36.2507 MHz		x dB	-6.00 dB
Transmit Freq Error	-16.513 kHz		
x dB Bandwidth	36.457 MHz		

Freq/Channel

Center Freq
2.45200000 GHz

Start Freq
2.42700000 GHz

Stop Freq
2.47700000 GHz

CF Step
5.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

6.5 20dB Test Data

Test Mode: IEEE 802.11b 2412MHz

Agilent

Ch Freq 2.412 GHz Trig Free

Occupied Bandwidth

Freq/Channel

Center Freq 2.41200000 GHz

Start Freq 2.39200000 GHz

Stop Freq 2.43200000 GHz

CF Step 4.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Ref 20 dBm Atten 30 dB

#Peak Log 10 dB/

Center 2.412 GHz Span 40 MHz
#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth

12.2304 MHz

Occ BW % Pwr 99.00 %
x dB -20.00 dB

Transmit Freq Error 117.977 Hz
x dB Bandwidth 14.141 MHz

Test Mode: IEEE 802.11b 2437MHz

Agilent

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Freq/Channel

Center Freq 2.43700000 GHz

Start Freq 2.41700000 GHz

Stop Freq 2.45700000 GHz

CF Step 4.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Ref 20 dBm Atten 30 dB

#Peak Log 10 dB/

Center 2.437 GHz Span 40 MHz
#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth

12.1857 MHz

Occ BW % Pwr 99.00 %
x dB -20.00 dB

Transmit Freq Error -214.031 Hz
x dB Bandwidth 14.101 MHz

Test Mode: IEEE 802.11b 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
12.231 MHz		x dB	-20.00 dB
Transmit Freq Error	6.987 kHz		
x dB Bandwidth	14.238 MHz		

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11g 2412MHz

Agilent

Ch Freq 2.412 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak
Log
10
dB/

Center 2.412 GHz Span 40 MHz
#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.8031 MHz		x dB	-20.00 dB
Transmit Freq Error	-12.738 kHz		
x dB Bandwidth	18.644 MHz		

Freq/Channel

Center Freq
2.41200000 GHz

Start Freq
2.39200000 GHz

Stop Freq
2.43200000 GHz

CF Step
4.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11g 2437MHz

Agilent

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak
Log
10
dB/

Center 2.437 GHz Span 40 MHz
#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.8032 MHz		x dB	-20.00 dB
Transmit Freq Error	-20.652 kHz		
x dB Bandwidth	18.720 MHz		

Freq/Channel

Center Freq
2.43700000 GHz

Start Freq
2.41700000 GHz

Stop Freq
2.45700000 GHz

CF Step
4.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11g 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak
Log
10
dB/

Center 2.462 GHz Span 40 MHz
#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.7847 MHz		x dB	-20.00 dB
Transmit Freq Error	-12.077 kHz		
x dB Bandwidth	18.510 MHz		

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11n HT20 2412MHz

Agilent

Ch Freq 2.412 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak Log 10 dB/

Center 2.412 GHz Span 40 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

16.9639 MHz x dB -20.00 dB

Transmit Freq Error 43.683 kHz

x dB Bandwidth 18.972 MHz

Freq/Channel

Center Freq 2.41200000 GHz

Start Freq 2.39200000 GHz

Stop Freq 2.43200000 GHz

CF Step 4.00000000 MHz

Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11n HT20 2437MHz

Agilent

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak Log 10 dB/

Center 2.437 GHz Span 40 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

16.8799 MHz x dB -20.00 dB

Transmit Freq Error 8.793 kHz

x dB Bandwidth 18.394 MHz

Freq/Channel

Center Freq 2.43700000 GHz

Start Freq 2.41700000 GHz

Stop Freq 2.45700000 GHz

CF Step 4.00000000 MHz

Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11n HT20 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
16.9078 MHz		x dB	-20.00 dB
Transmit Freq Error	43.940 kHz		
x dB Bandwidth	19.009 MHz		

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11n HT40 2422MHz

Agilent

Ch Freq 2.422 GHz Trig Free

Occupied Bandwidth

Center 2.422 GHz Span 80 MHz
#Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
38.3016 MHz		x dB	-20.00 dB
Transmit Freq Error	156.854 kHz		
x dB Bandwidth	41.207 MHz		

Freq/Channel

Center Freq
2.42200000 GHz

Start Freq
2.38200000 GHz

Stop Freq
2.46200000 GHz

CF Step
8.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11n HT40 2437MHz

Agilent

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Center 2.437 GHz Span 80 MHz
#Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
38.1250 MHz		x dB	-20.00 dB
Transmit Freq Error	51.509 kHz		
x dB Bandwidth	40.607 MHz		

Freq/Channel

Center Freq
2.43700000 GHz

Start Freq
2.39700000 GHz

Stop Freq
2.47700000 GHz

CF Step
8.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11n HT40 2452MHz

Agilent

Ch Freq 2.452 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak
Log
10
dB/

Center 2.452 GHz Span 80 MHz
#Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth		Occ BW % Pwr	99.00 %
37.6339 MHz		x dB	-20.00 dB
Transmit Freq Error	161.867 kHz		
x dB Bandwidth	40.968 MHz		

Freq/Channel

Center Freq
2.45200000 GHz

Start Freq
2.41200000 GHz

Stop Freq
2.49200000 GHz

CF Step
8.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

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

7.3 Test Procedure

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

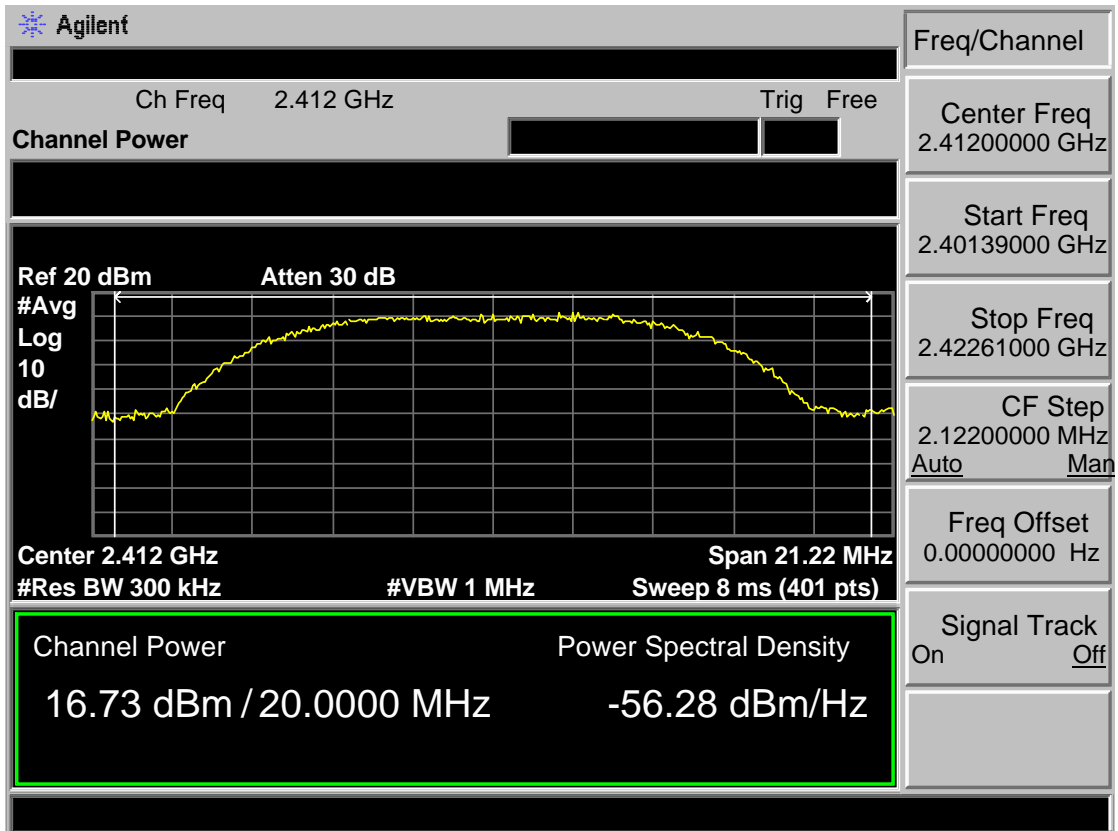
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

7.4 Test Result

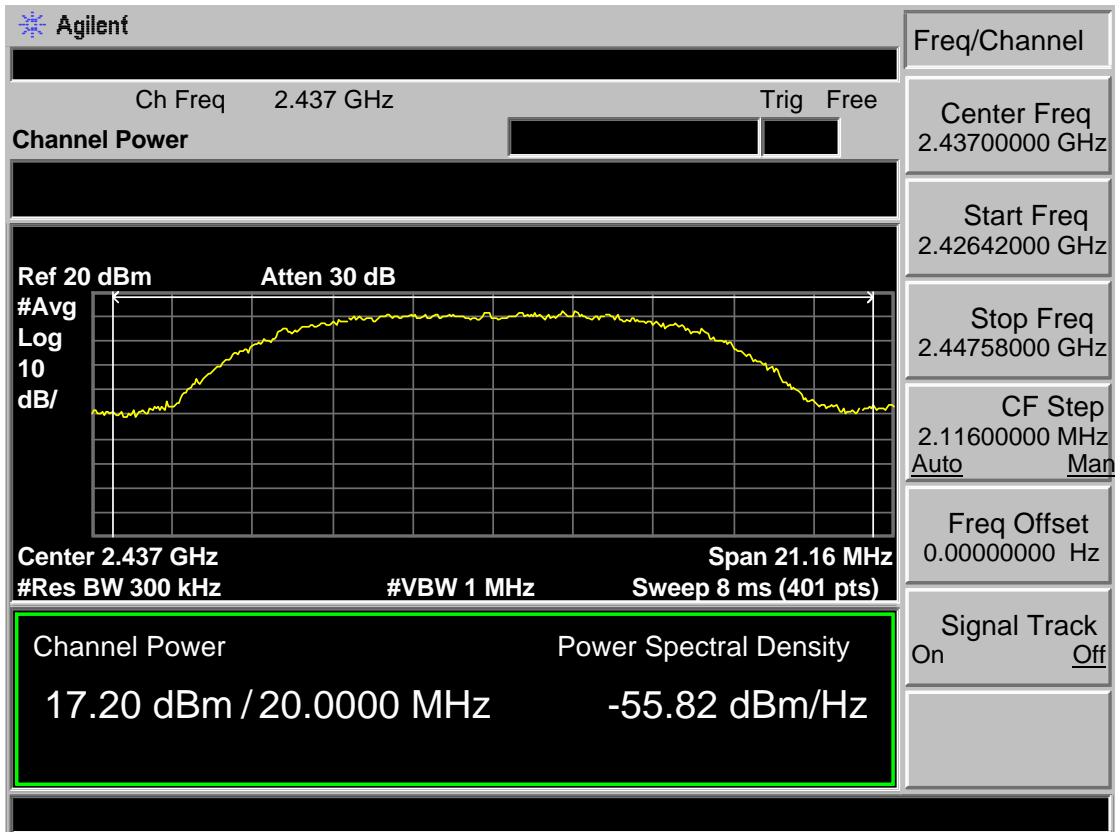
EUT: LED TV			
M/N: WA43FBN1001			
Test date: 2017-04-18		Tested by: Tony.Tang	Test site: RF Site
Pass			
Test Mode	CH	Conducted Power (dBm)	Limit (dBm)
IEEE 802.11 b	CH1	16.73	30
	CH6	17.20	30
	CH11	17.43	30
IEEE 802.11 g	CH1	12.90	30
	CH6	13.73	30
	CH11	13.45	30
IEEE 802.11 n HT 20	CH1	13.38	30
	CH6	13.40	30
	CH11	12.75	30
IEEE 802.11 n HT 40	CH3	12.55	30
	CH6	12.13	30
	CH9	11.92	30
Conclusion : PASS			

7.5 Test Data

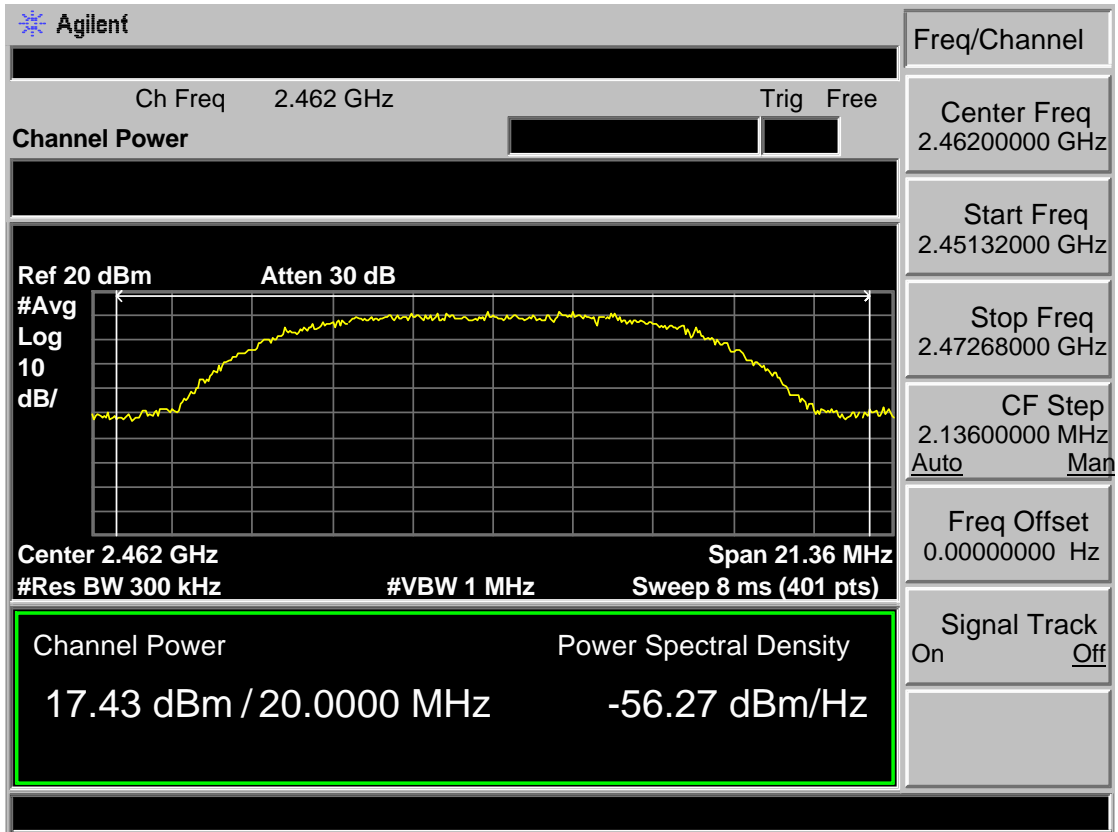
Test Mode: IEEE 802.11 b 2412MHz



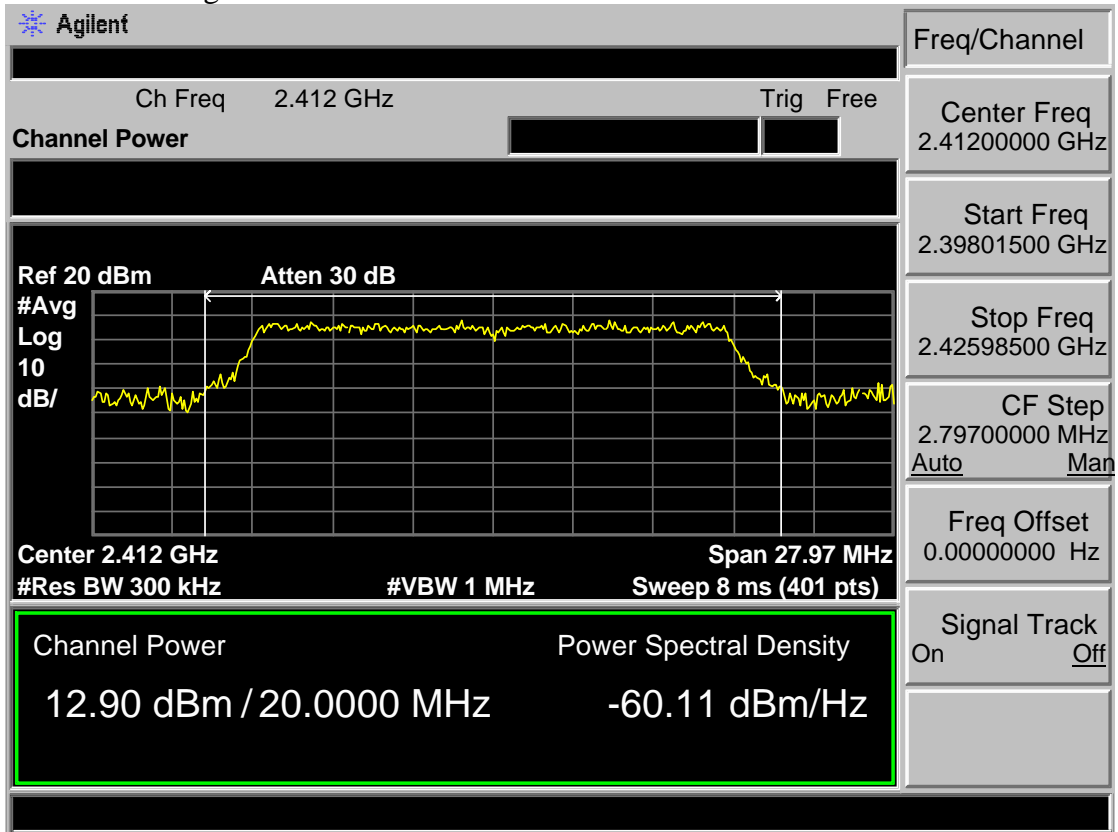
Test Mode: IEEE 802.11 b 2437MHz



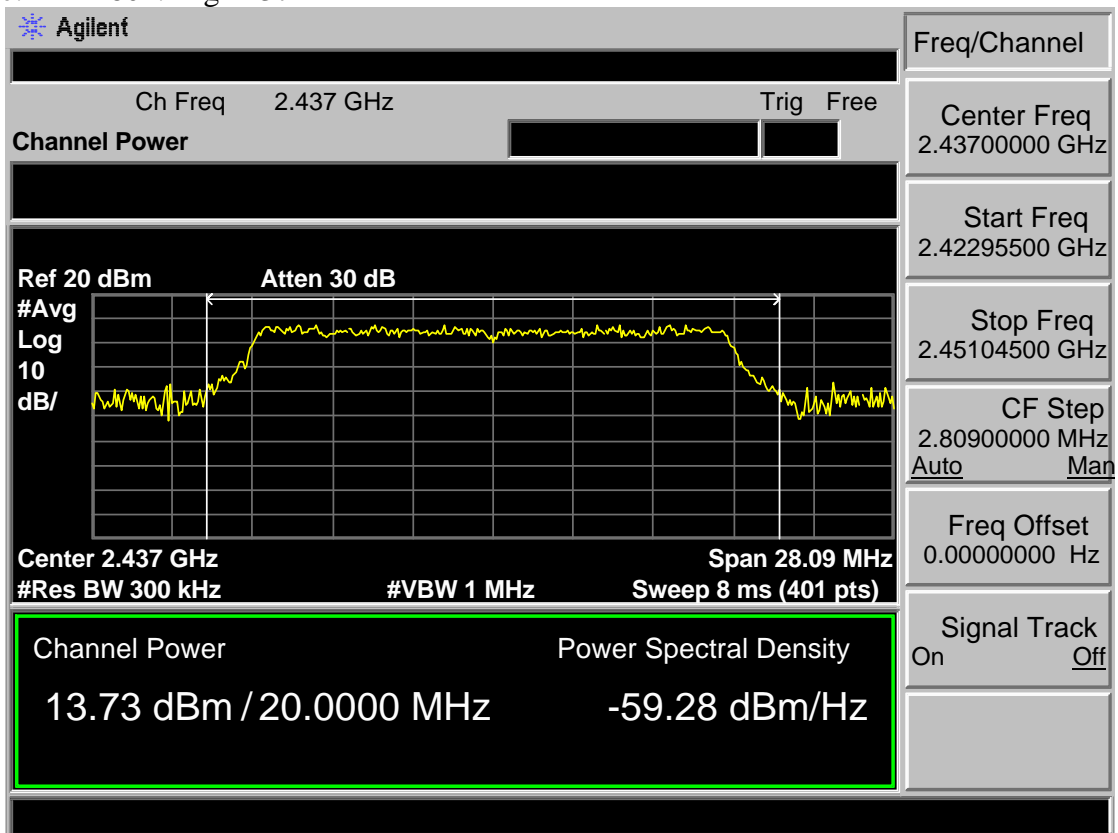
Test Mode: IEEE 802.11 b 2462MHz



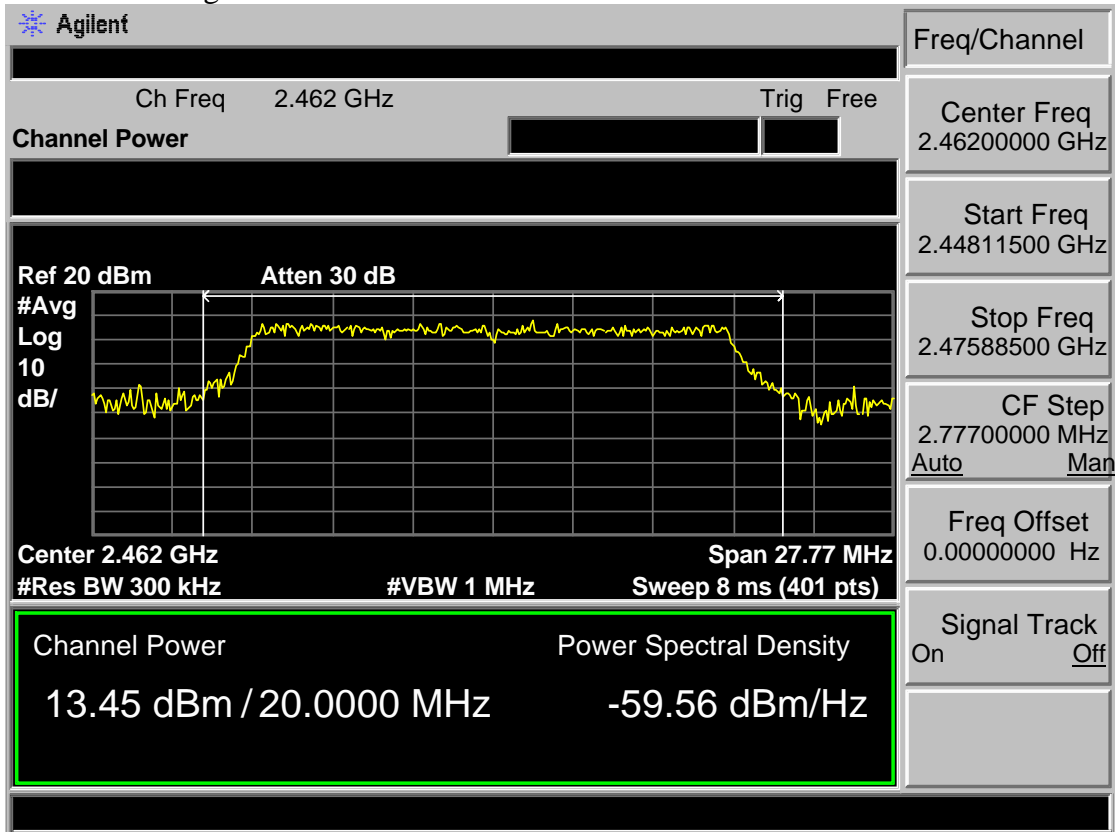
Test Mode: IEEE 802.11 g 2412MHz



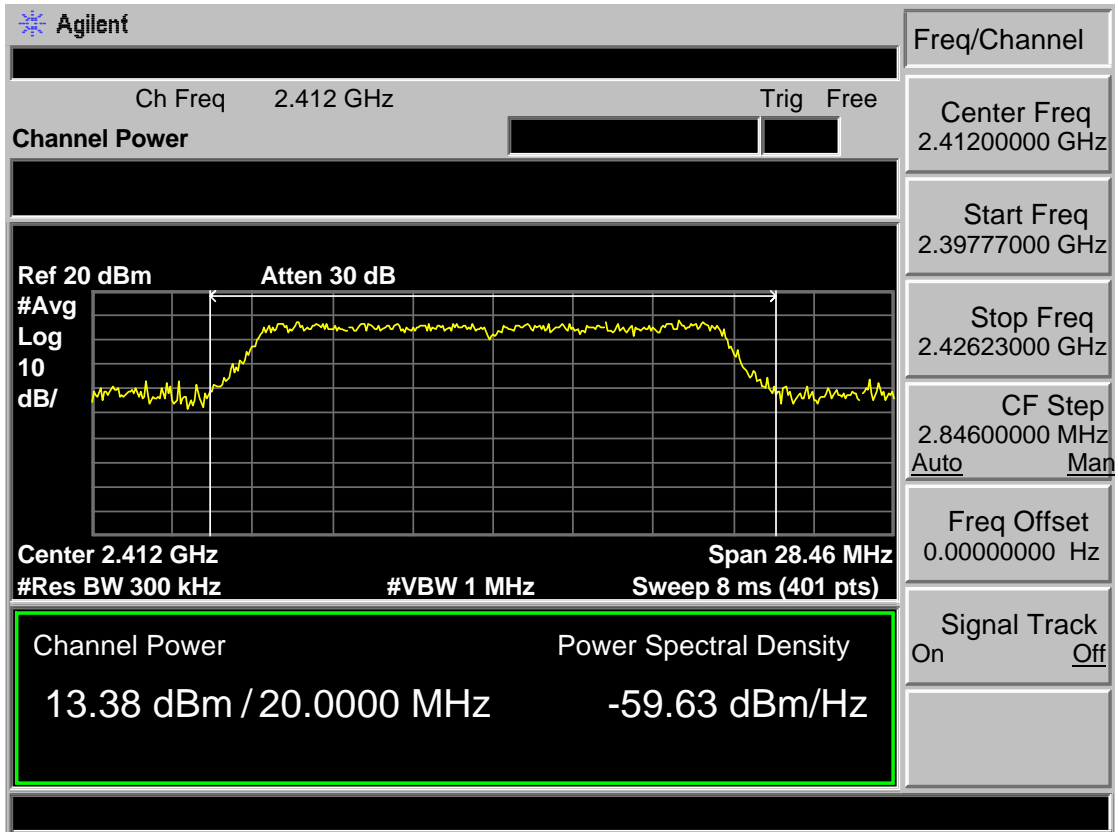
Test Mode: IEEE 802.11 g 2437MHz



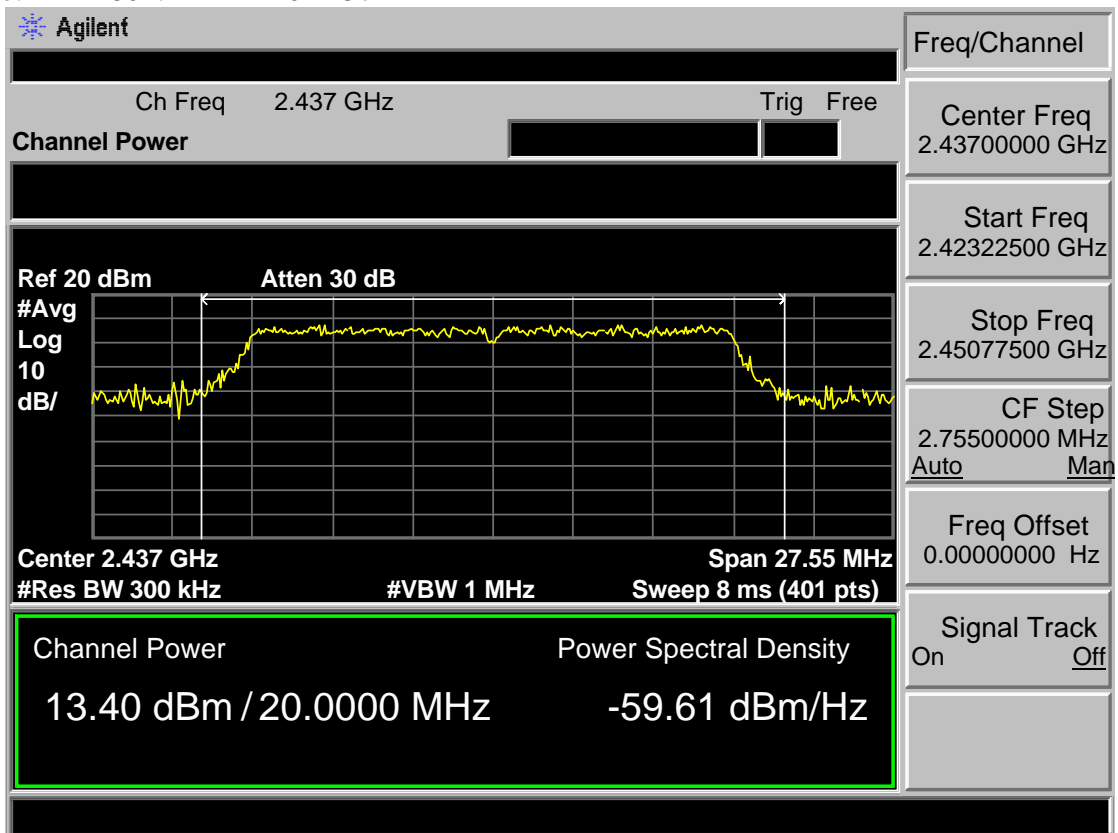
Test Mode: IEEE 802.11 g 2462MHz



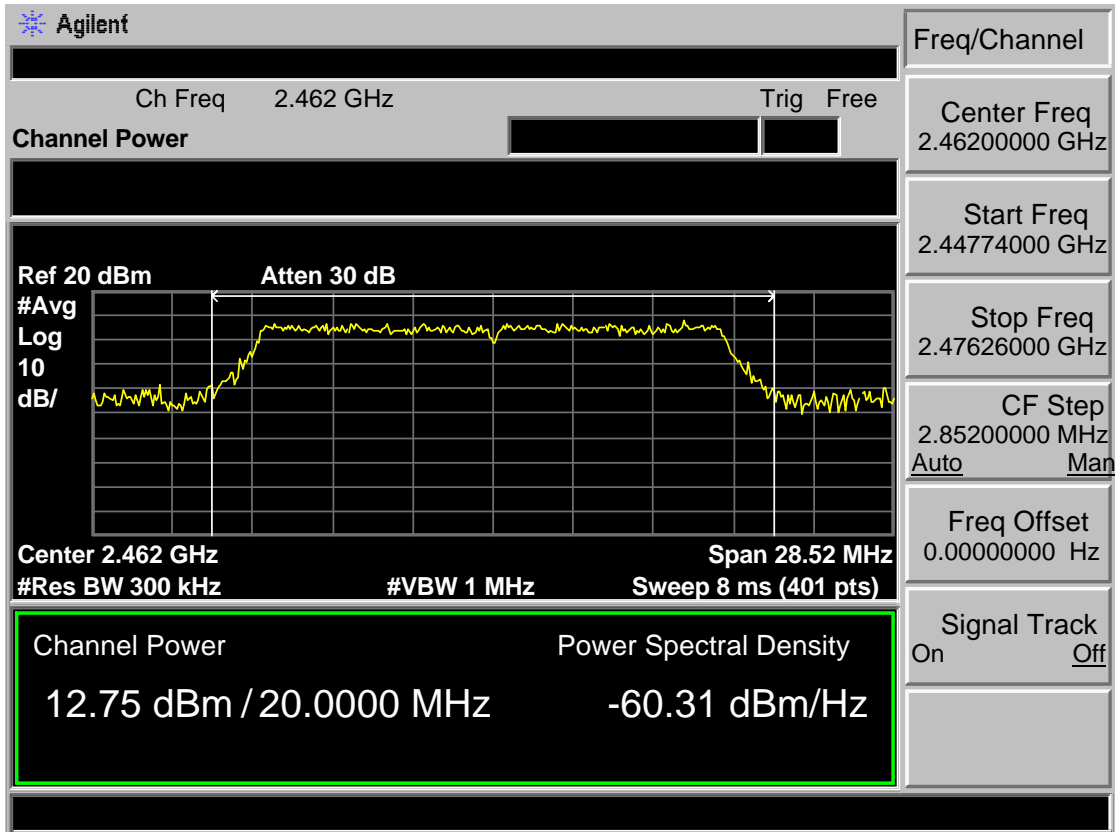
Test Mode: IEEE 802.11n HT20 2412MHz



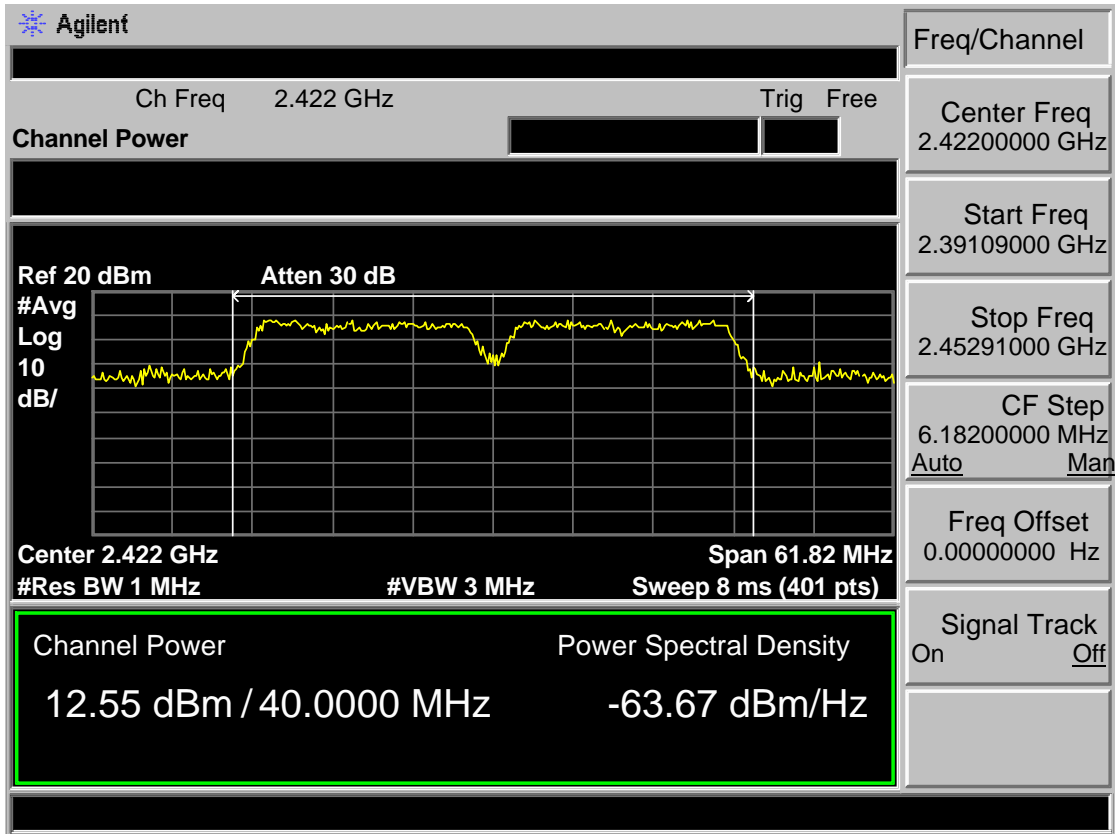
Test Mode: IEEE 802.11 n HT20 2437MHz



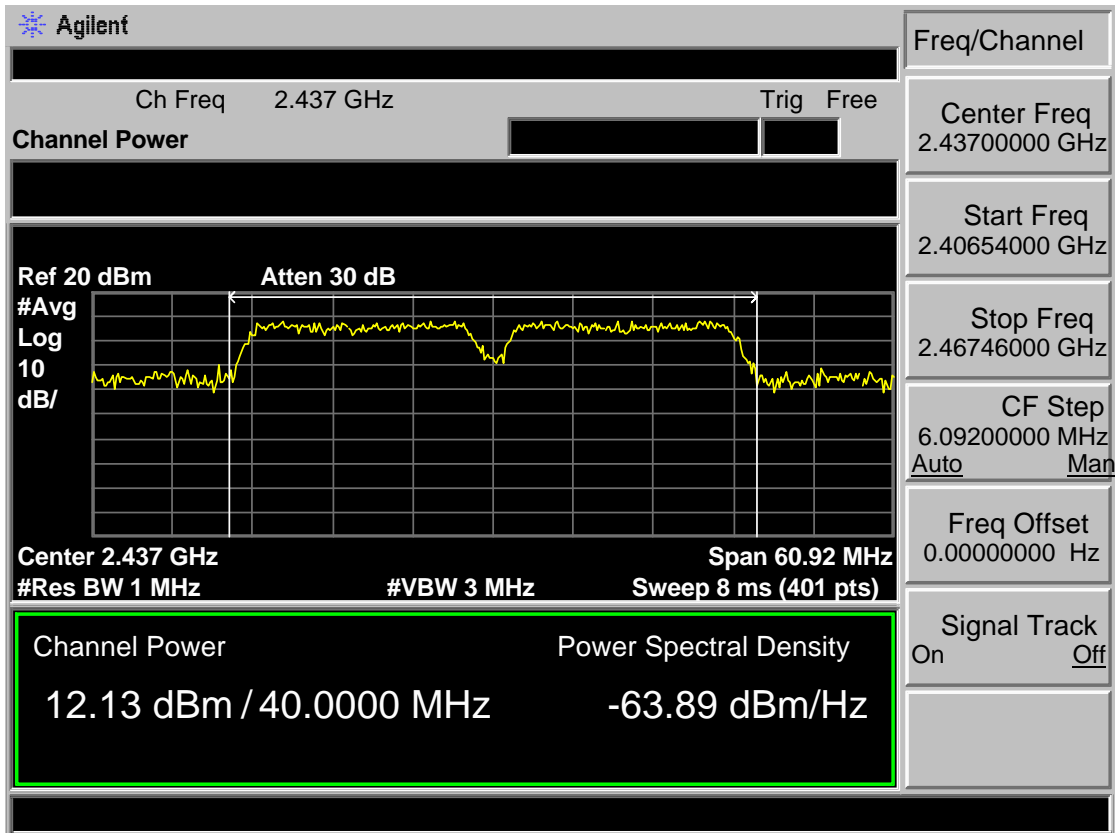
Test Mode: IEEE 802.11 n HT20 2462MHz



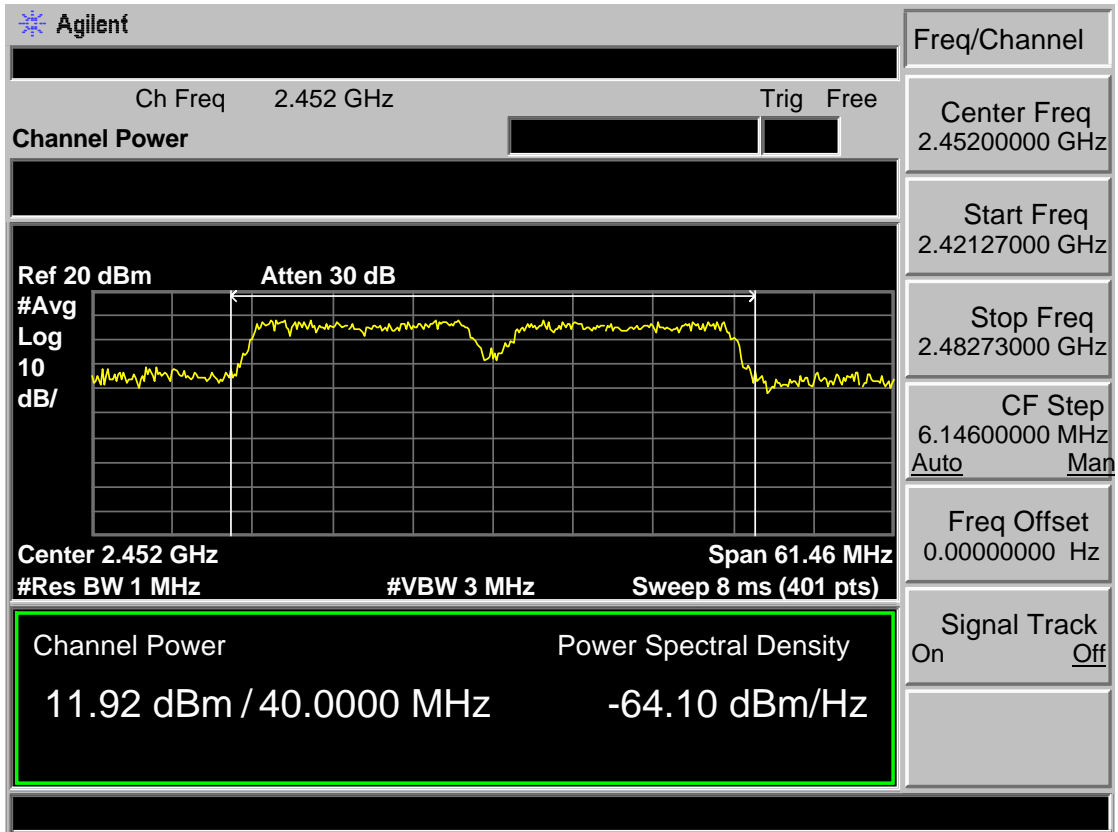
Test Mode: IEEE 802.11 n HT40 2422MHz



Test Mode: IEEE 802.11 n HT40 2437MHz



Test Mode: IEEE 802.11 n HT40 2452MHz



8 POWER SPECTRAL DENSITY TEST

8.1 Limit

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

8.2 Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer device.

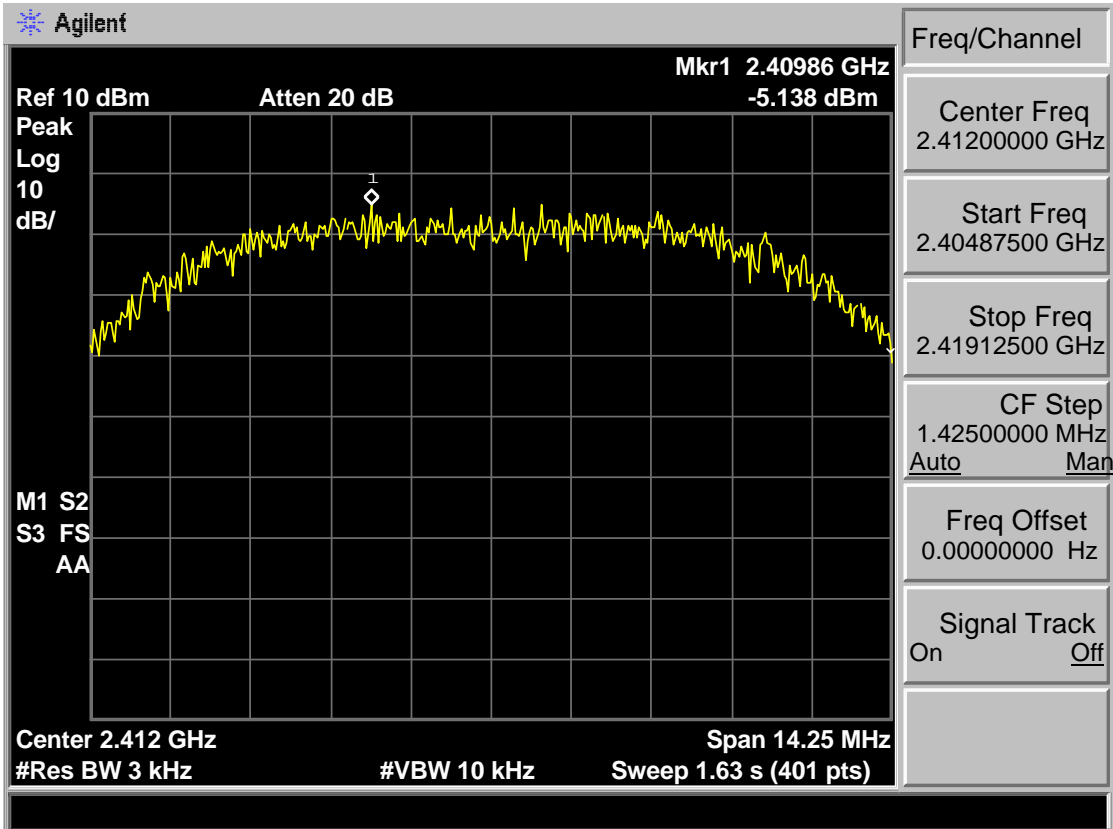
- 2, Follow the test procedure as described in KDB 558074
 - (1). Set analyzer center frequency to DTS channel center frequency.
 - (2). Set the span to 1.5 times the DTS bandwidth.
 - (3). Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - (4). Set the VBW $\geq 3 \text{ RBW}$.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

8.3 Test Result

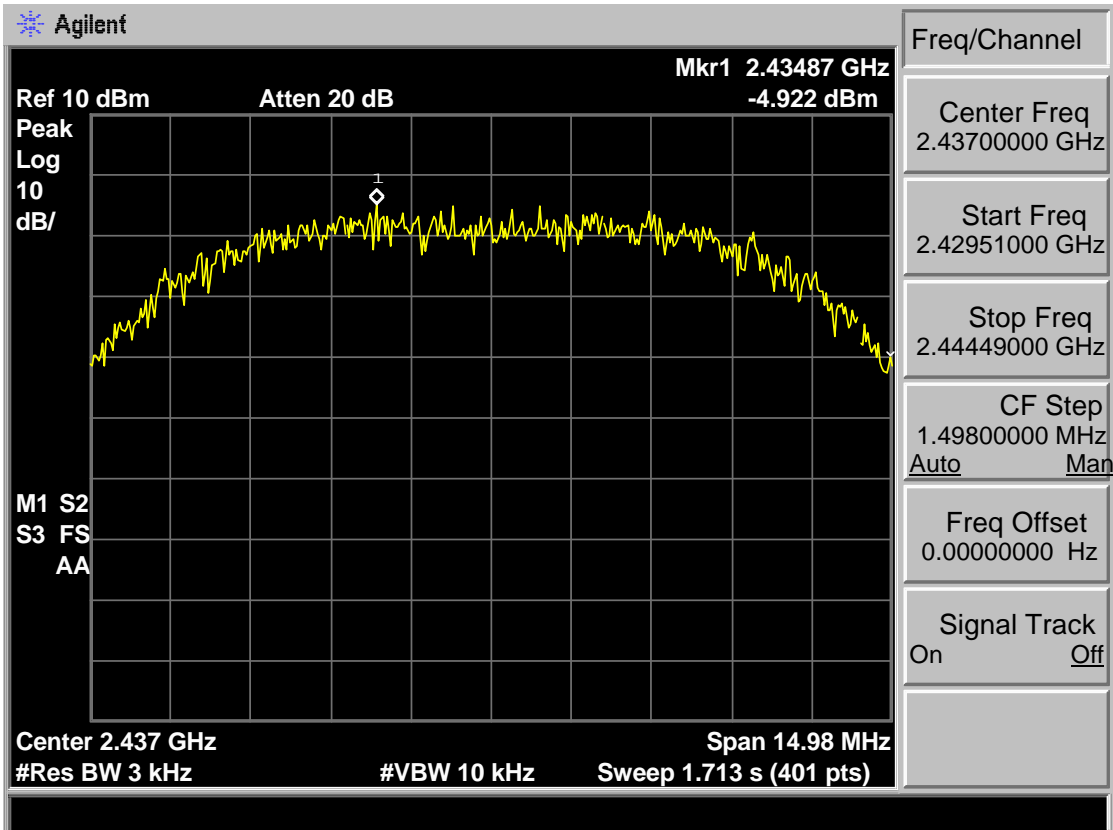
EUT: LED TV			
M/N: WA43FBN1001			
Test date: 2017-04-18		Tested by: Tony Tang	Test site: RF site
Pass			
Test Mode	CH	Power density (dBm/3kHz)	Limit (dBm/3kHz)
IEEE 802.11 b	CH1	-5.14	8
	CH6	-4.92	8
	CH11	-5.35	8
IEEE 802.11 g	CH1	-8.80	8
	CH6	-9.11	8
	CH11	-9.33	8
IEEE 802.11 n HT 20	CH1	-9.94	8
	CH6	-10.09	8
	CH11	-10.14	8
IEEE 802.11 n HT 40	CH3	-12.79	8
	CH6	-12.33	8
	CH9	-12.57	8
Conclusion: PASS			

8.4 Test Data

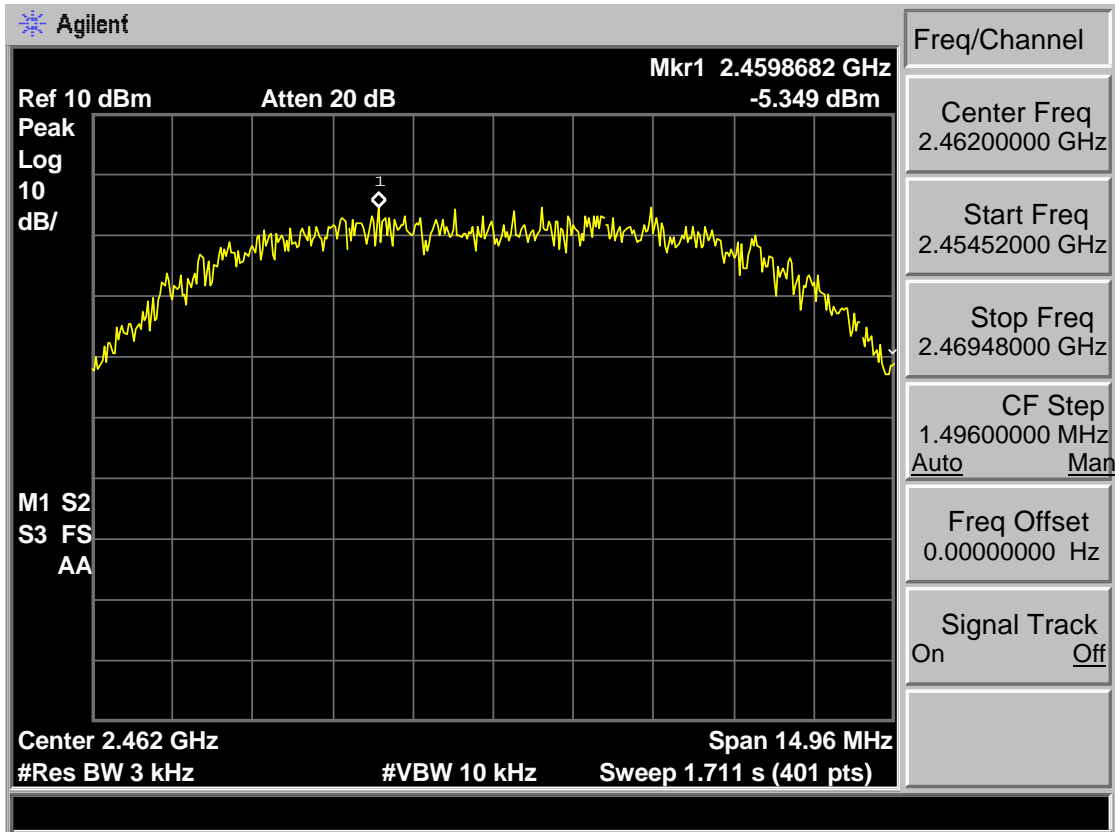
Test Mode: IEEE 802.11b 2412MHz



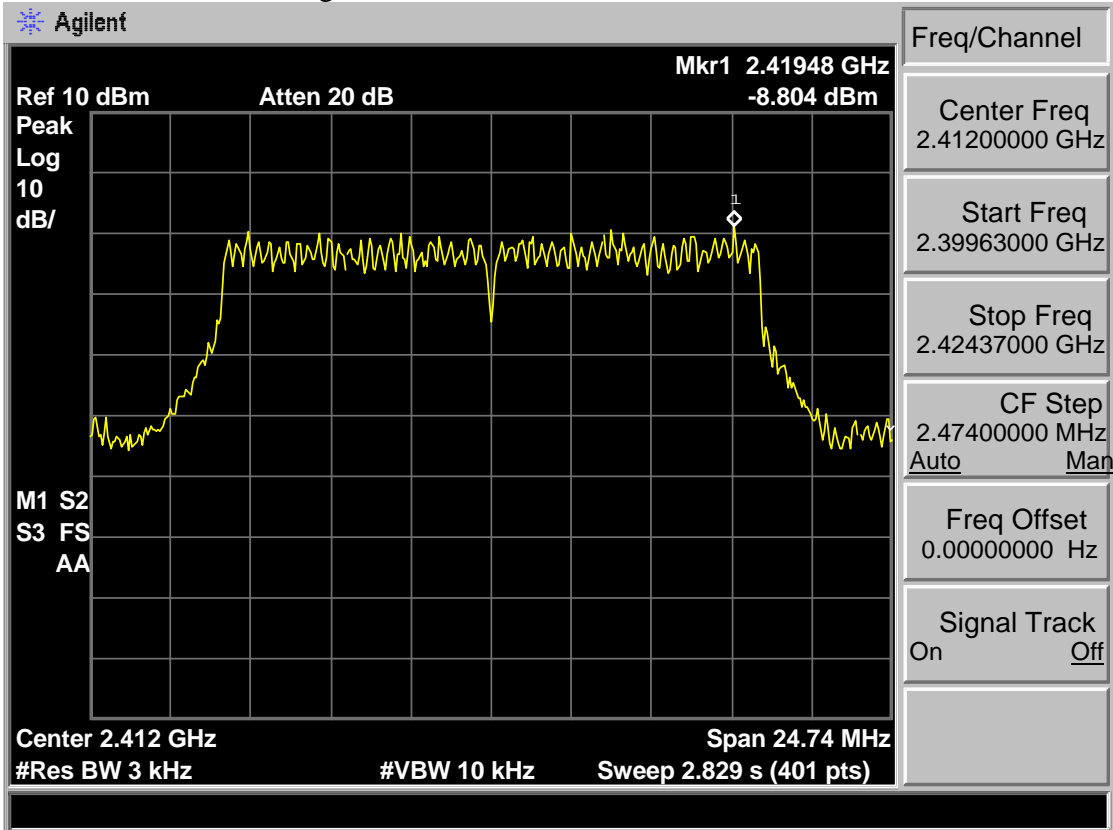
Test Mode: IEEE 802.11b 2437MHz



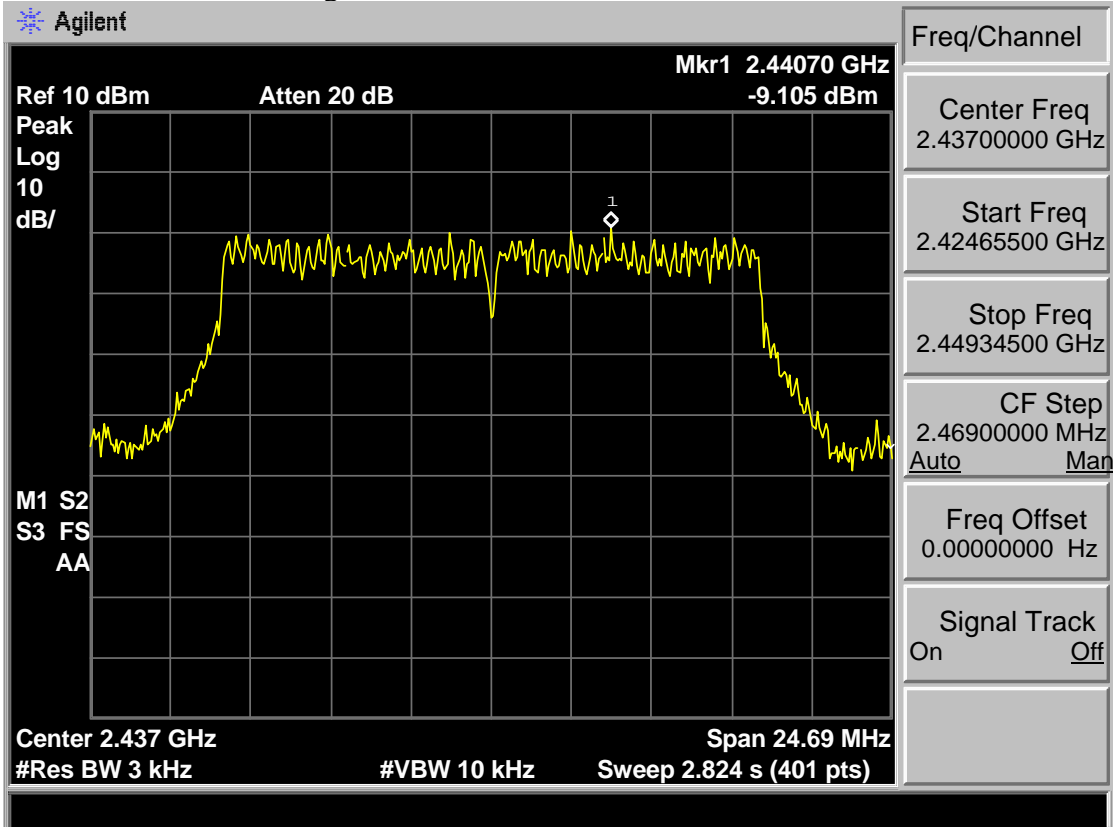
Test Mode: IEEE 802.11b 2462MHz



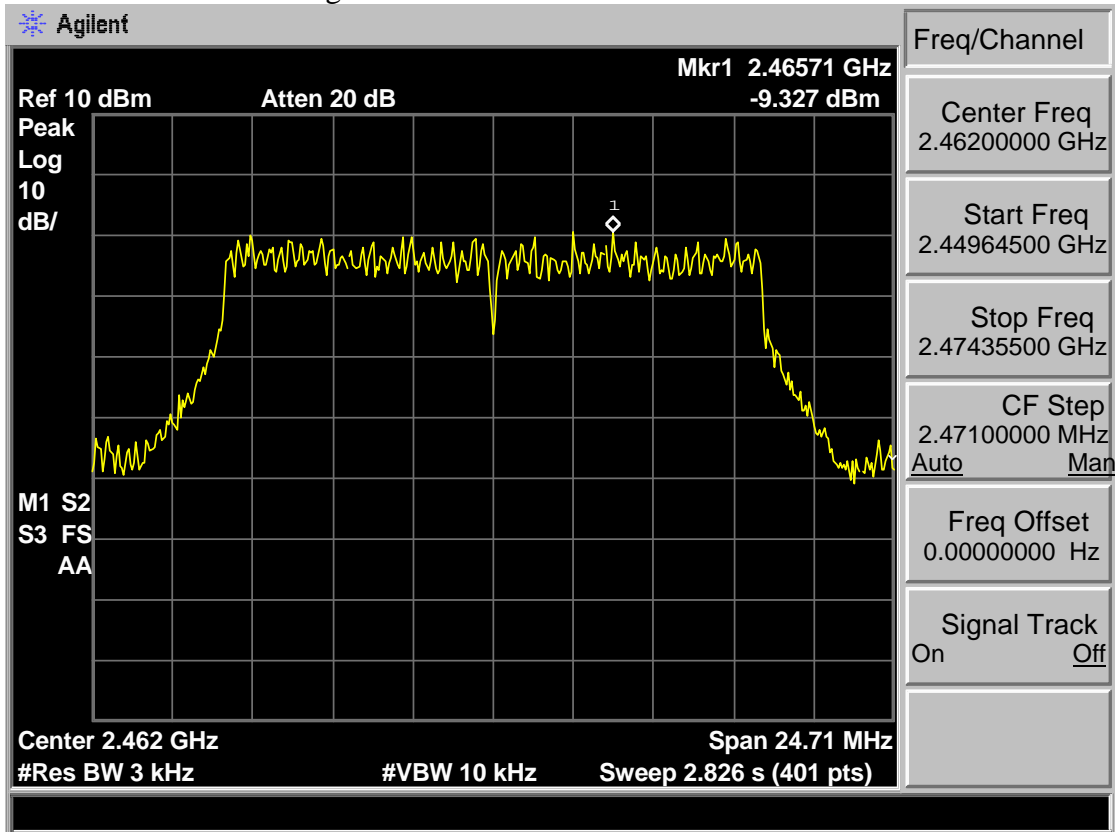
Test Mode: IEEE 802.11g 2412MHz



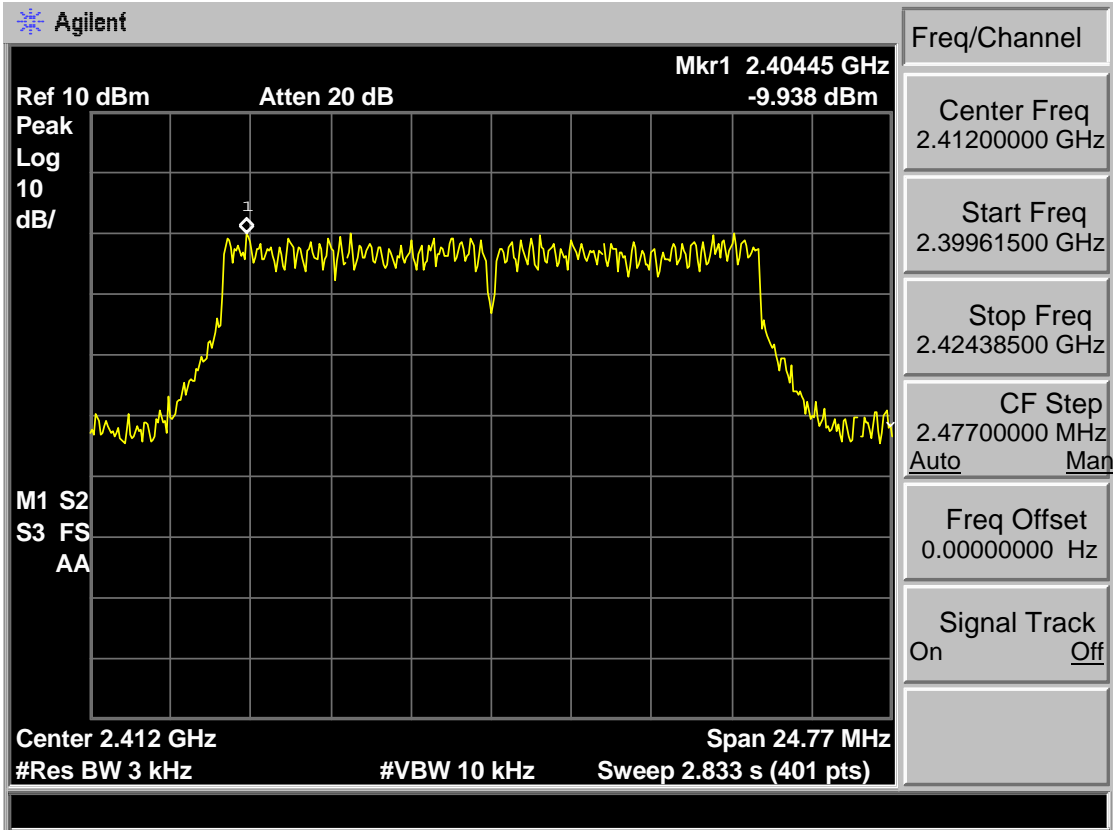
Test Mode: IEEE 802.11g 2437MHz



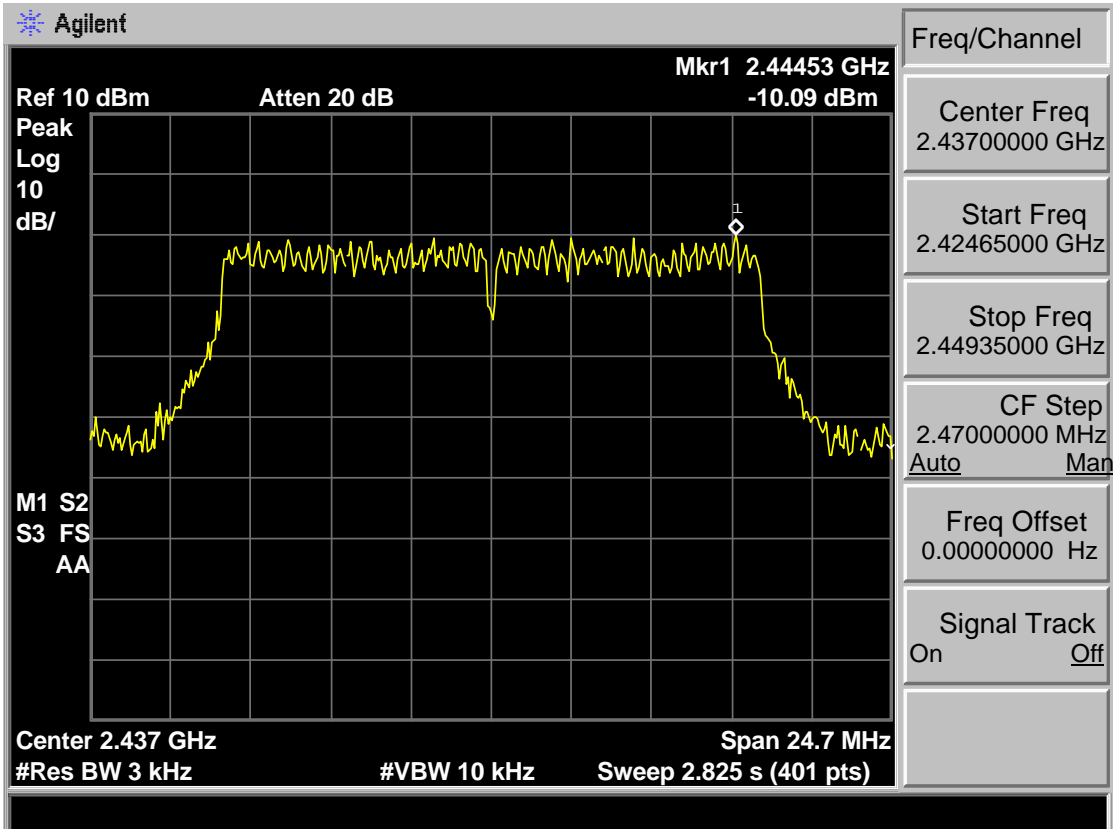
Test Mode: IEEE 802.11g 2462MHz



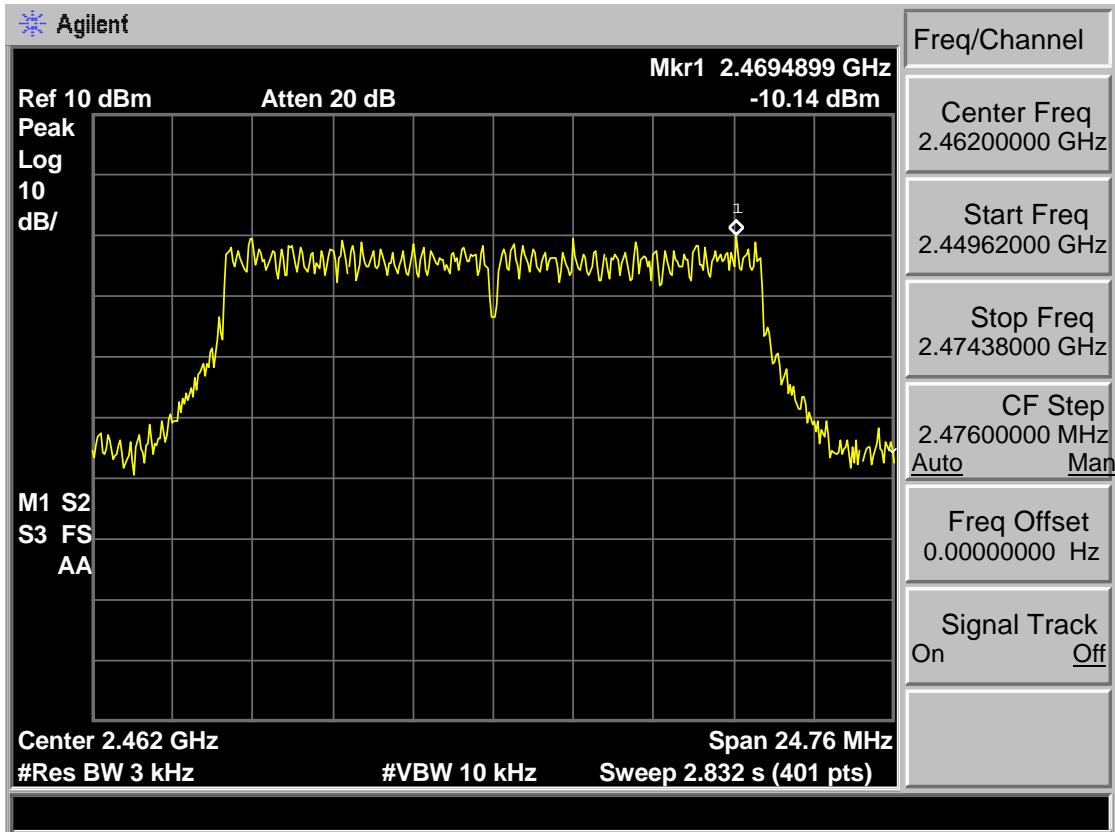
Test Mode: IEEE 802.11n HT20 2412MHz



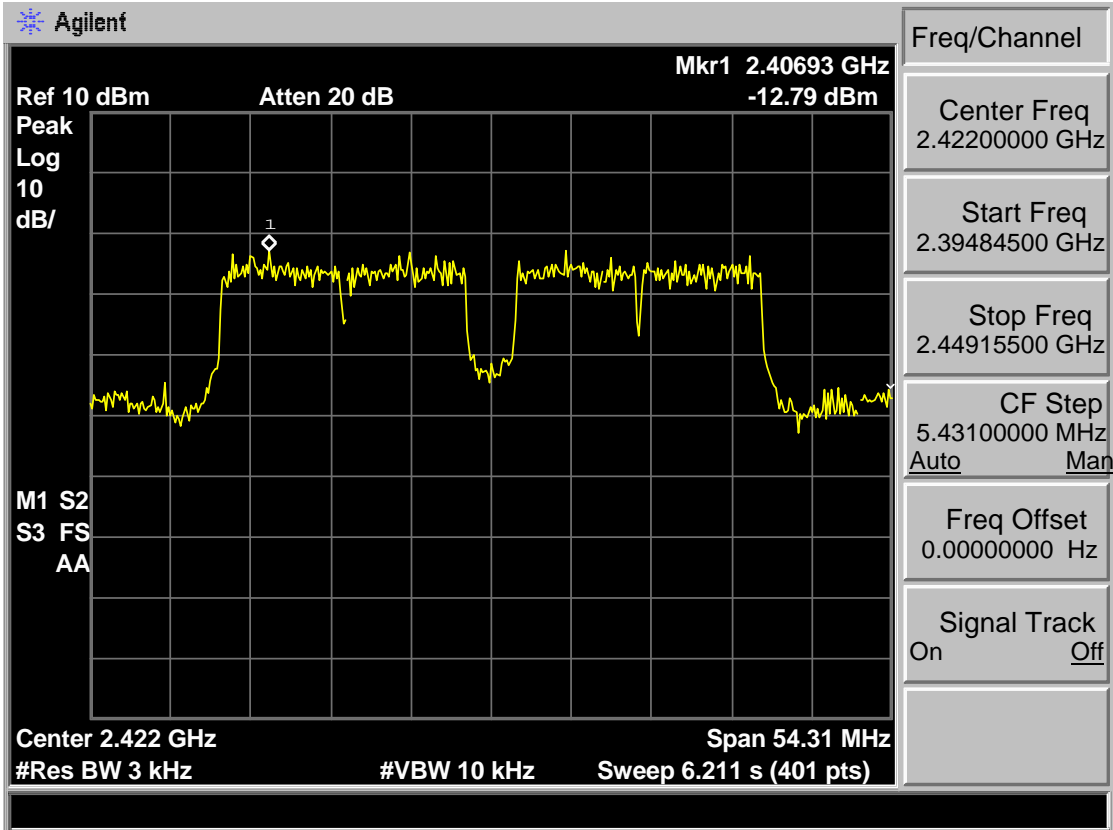
Test Mode: IEEE 802.11n HT20 2437MHz



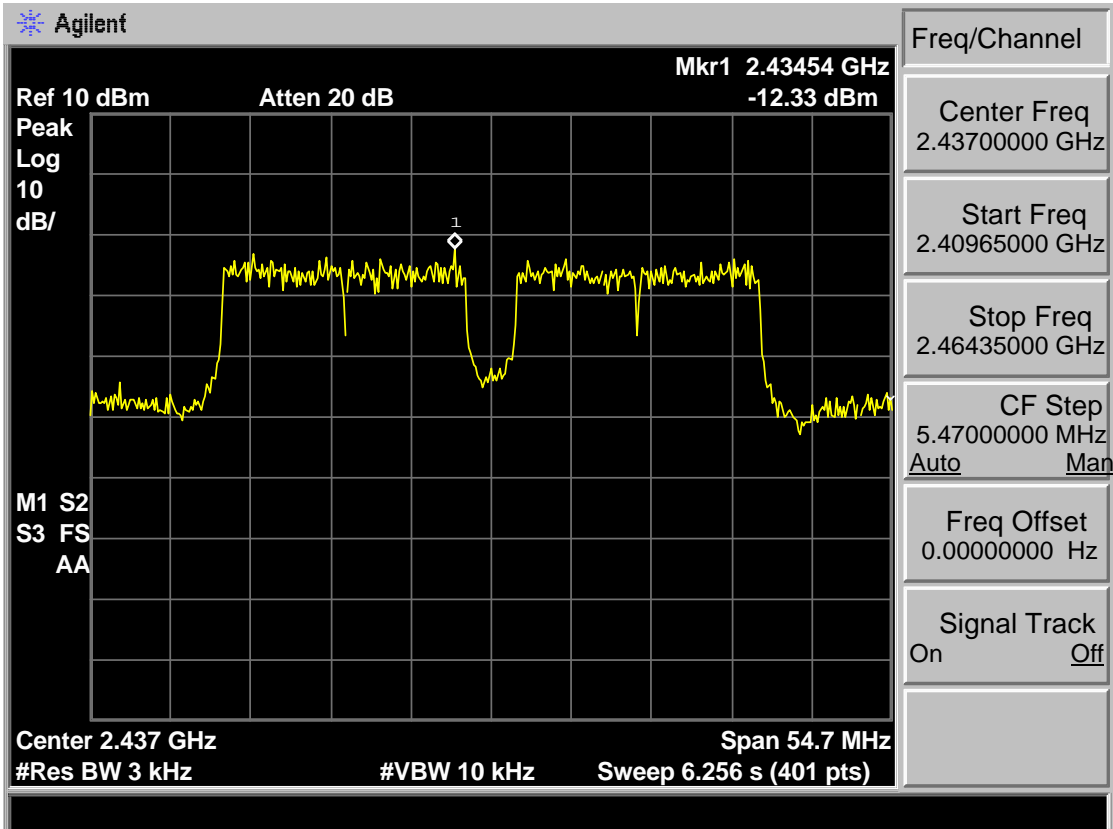
Test Mode: IEEE 802.11n HT20 2462MHz



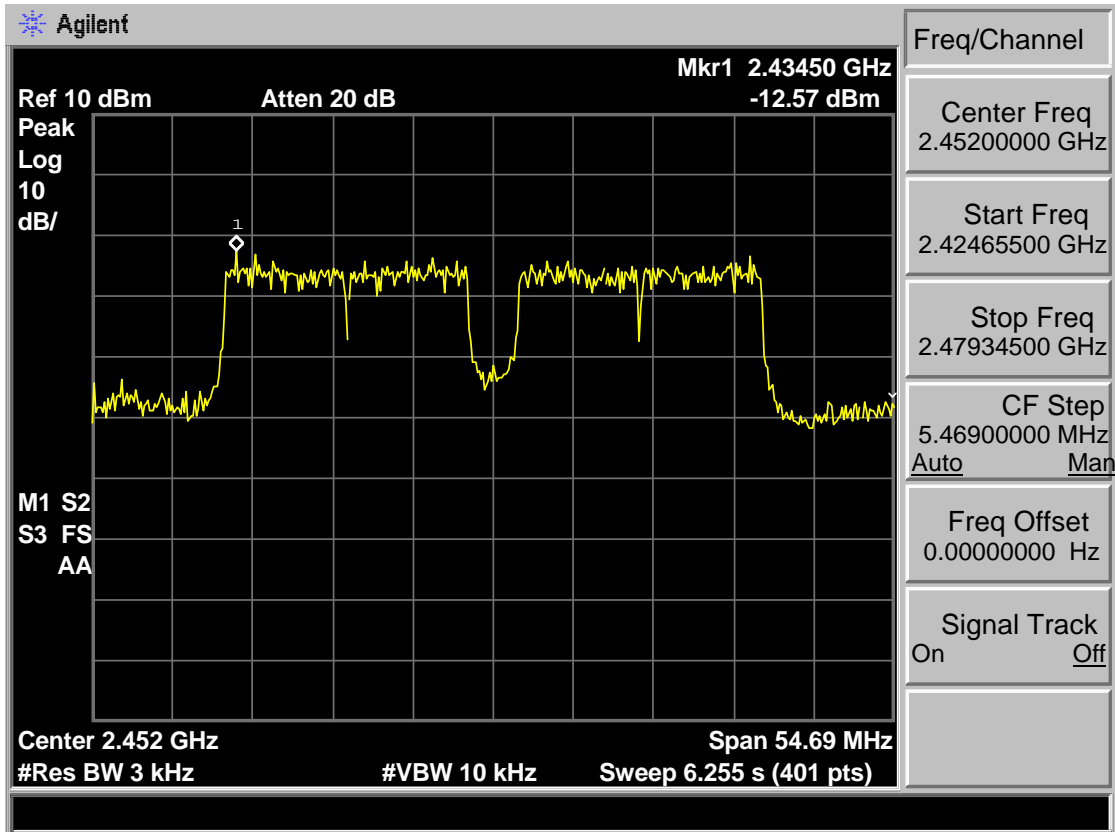
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz



9 ANTENNA REQUIREMENTS

9.1 Limit

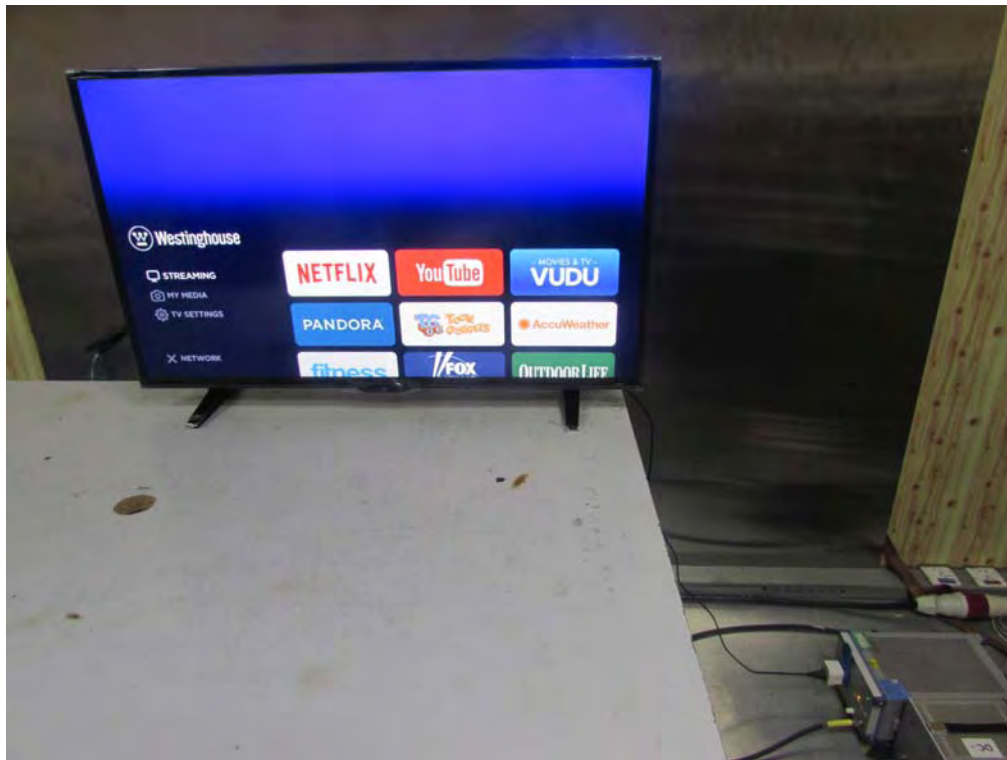
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional 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 2 dBi.

10 TEST SETUP PHOTO

Conducted Test



Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)



11 PHOTOS OF EUT

External Photos
M/N: WA43FBN1001



External Photos
M/N: WA43FBN1001



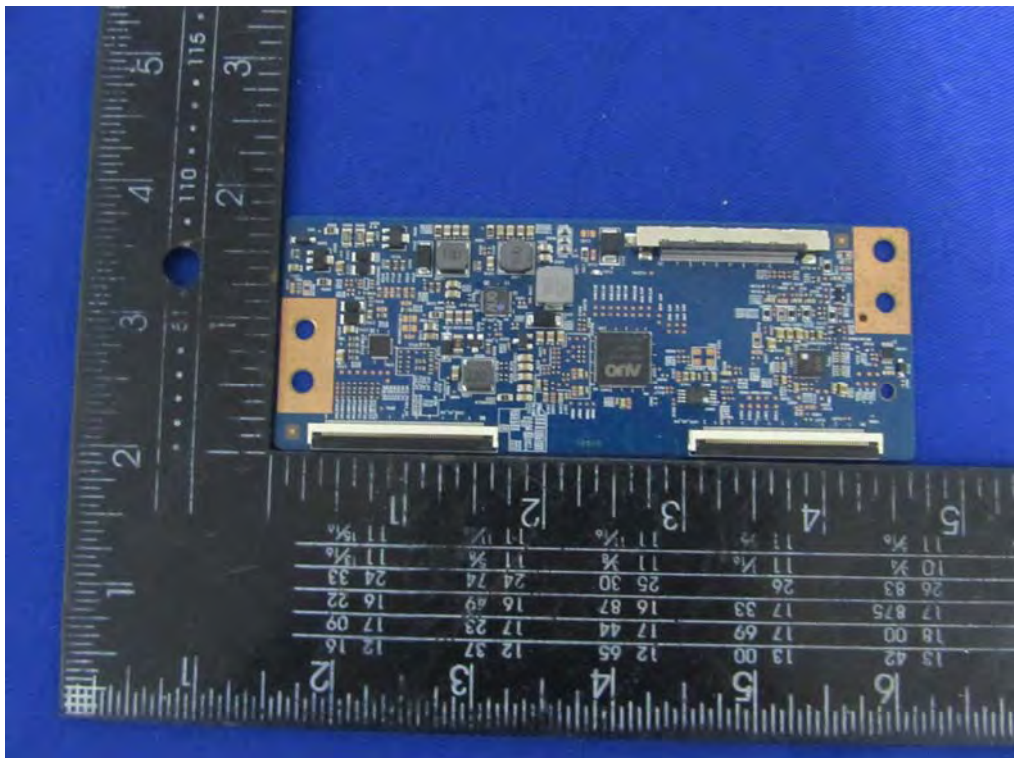
External Photos
M/N: WA43FBN1001



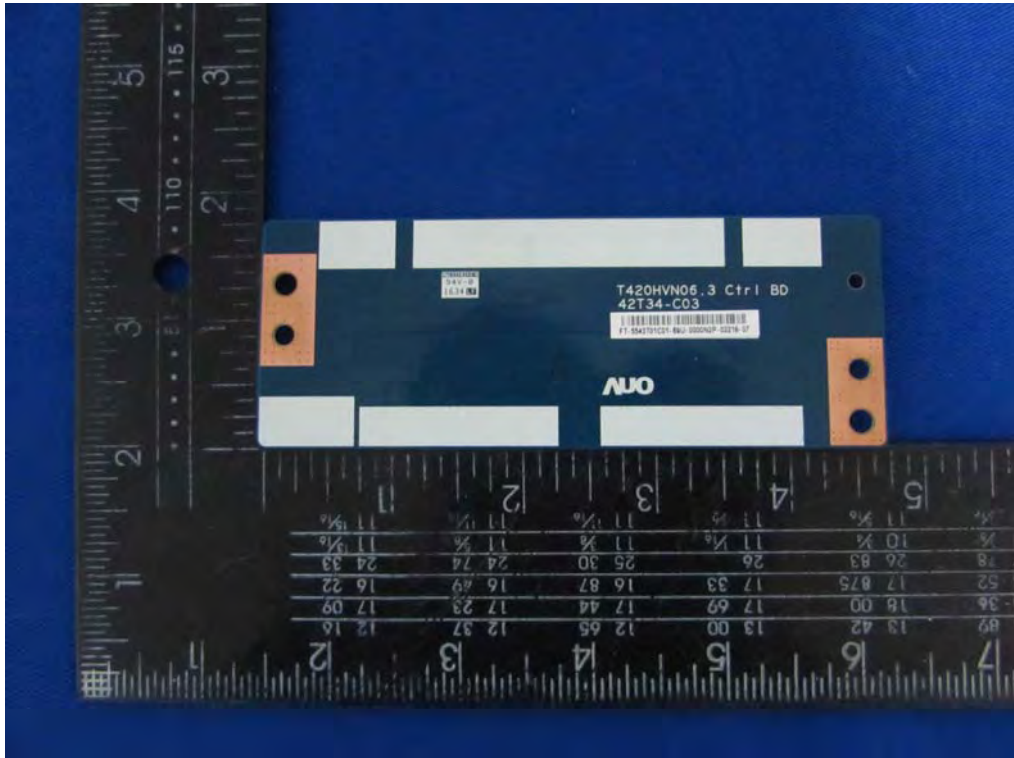
External Photos
M/N: WA43FBN1001



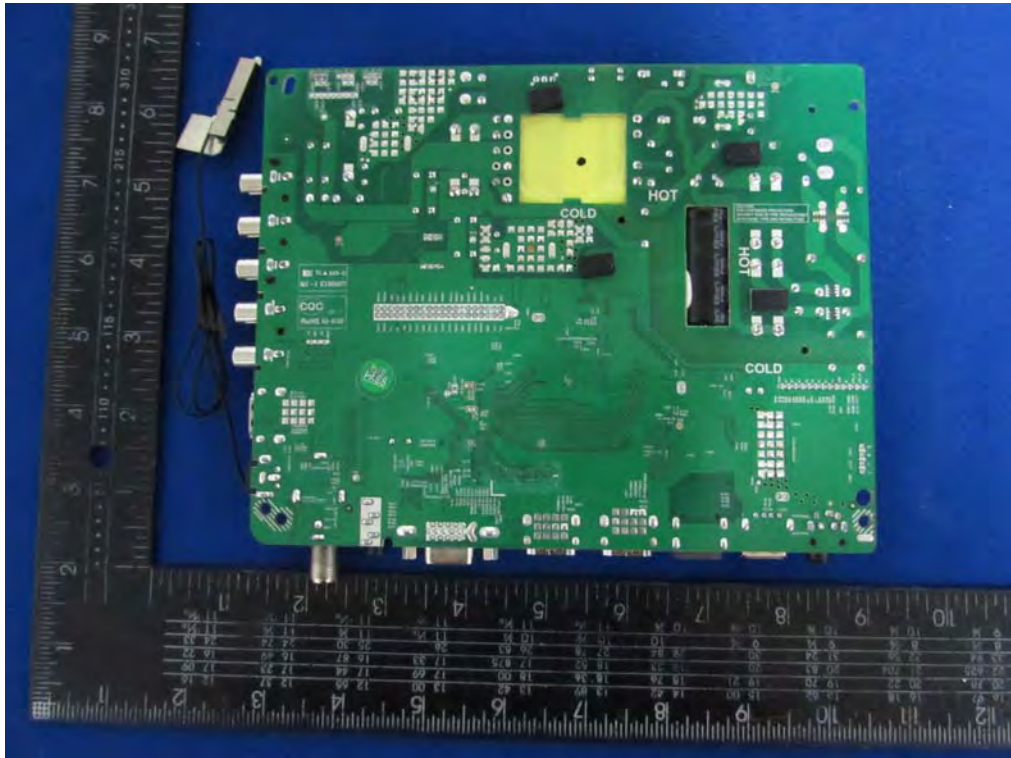
Internal Photos
M/N: WA43FBN1001



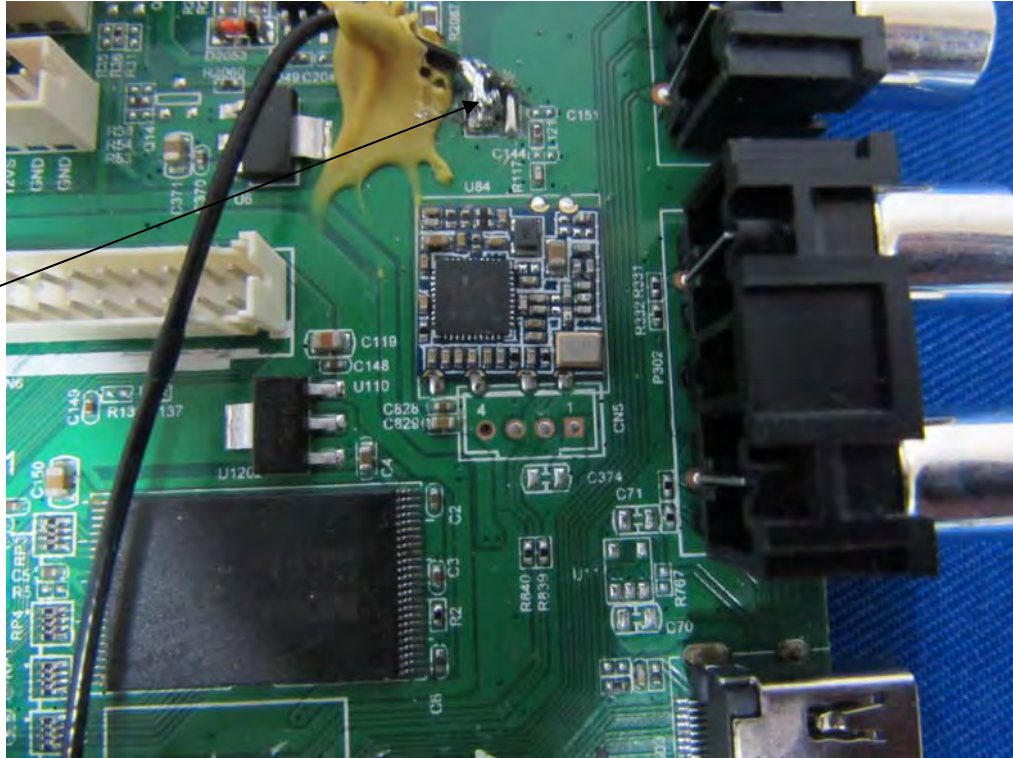
Internal Photos
M/N: WA43FBN1001



Internal Photos
M/N: WA43FBN1001



Internal Photos
M/N: WA43FBN1001



Wifi
Antenna