

FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

INMUSIC BRANDS INC

INTERNET RADIO PLAYER

Model Number: DN-350UI

Additional Model: DP28

FCC ID: Y4O-DP28

Prepared for:	INMUSIC BRANDS INC
	200 SCENIC VIEW DRIVE, SUITE 201,
	CUMBERLAND, RI 02864,U.S.A
Prepared By:	EST Technology Co., Ltd.
	San Tun Management Zone, Houjie District, Dongguan, China
	Tel: 86-769-83081888-808

Report Number:	ESTE-R1708032
Date of Test:	May10 ~ June 30, 2017
Date of Report:	July 03, 2017

## TABLE OF CONTENTS

Description	Page
TEST REPORT VERIFICATION.....	3
1. GENERAL INFORMATION.....	5
1.1. Description of Device (EUT).....	5
2. SUMMARY OF TEST.....	6
2.1. Summary of test result.....	6
2.2. Test Facilities.....	7
2.3. Assistant equipment used for test.....	8
2.4. Block Diagram.....	8
2.5. Test mode.....	9
2.6. Channel List for wifi.....	9
2.7. Test Equipment.....	10
3 POWER LINE CONDUCTED EMISSION TEST.....	11
3.1. Limit.....	11
3.2. Test Procedure.....	11
3.3. Test Result.....	11
3.4. Test data.....	12
4 RADIATED EMISSION TEST.....	16
4.1 Limit.....	16
4.2. Block Diagram of Test setup.....	17
4.3. Test Procedure.....	18
4.4. Test Result.....	18
4.5. Test Data.....	19
5 BAND EDGE COMPLIANCE TEST.....	35
5.1 Limit.....	35
5.2 Block Diagram of Test setup.....	35
5.3 Test Procedure.....	35
5.4 Test Result.....	35
5.5 Test Data.....	36
6 6dB & 20dB Bandwidth Test.....	52
6.1 Limit.....	52
6.2 Test Procedure for 6dB.....	52
6.3 Test Procedure for 20dB.....	52
6.4 Test Result.....	54
6.5 6dB Test Data.....	55
6.6 20dB Test Data.....	63
7 OUTPUT POWER TEST.....	71
7.1 Limit.....	71
7.2 Test Procedure.....	71
7.3 Test Result.....	72
7.4 Test Data.....	73
8 POWER SPECTRAL DENSITY TEST.....	81
8.1 Limit.....	81
8.2 Test Procedure.....	81

8.3 Test Result..... 82

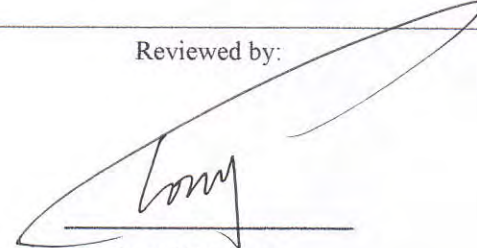

8.4 Test Data ..... 83

9 ANTENNA REQUIREMENTS .....91

9.1 Limit..... 91

9.2 Result ..... 91

## EST Technology Co., Ltd.

<b>Applicant:</b>	INMUSIC BRANDS INC		
<b>Address:</b>	200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND, RI 02864,U.S.A		
<b>Manufacturer:</b>	INMUSIC BRANDS INC		
<b>Address:</b>	200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND, RI 02864,U.S.A		
<b>E.U.T:</b>	INTERNET RADIO PLAYER		
<b>Model Number:</b>	DN-350UI		
<b>Additional Model:</b>	DP28 Note: The two models have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, except the different model number.		
<b>Power Supply:</b>	AC 100-240V ~ 50/60Hz		
<b>Test Voltage:</b>	AC 120V/60Hz AC 240V/60Hz		
<b>Trade Name:</b>	DENON PROFESSIONAL	<b>Serial No.:</b>	-----
<b>Date of Receipt:</b>	May 10, 2017	<b>Date of Test:</b>	May 10 ~ June 30, 2017
<b>Test Specification:</b>	FCC Rules and Regulations Part 15 Subpart C:2016 ANSI C63.10:2013		
<b>Test Result:</b>	<p>The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p>		
<b>Prepared by:</b>	<b>Reviewed by:</b>	<b>Date:</b> July 03, 2017	
 _____ Amy / Assistant	 _____ Tony / Engineer	<b>Approved by:</b>  _____ Ice-man Hu / Manager	
<b>Other Aspects:</b>	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	:	INTERNET RADIO PLAYER	
Model Number	:	DN-350UI	
FCC ID	:	Y4O-DP28	
Modulation	:	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 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 2412 ~ 2462 MHz: 11 Channels IEEE 802.11g 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT20 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT20 2422 ~ 2452 MHz: 7 Channels	
Antenna	:	External antenna	
		Frequency Range	Antenna 0
		2400~2483.5 MHz	4.0 dBi
		5150~5875 MHz	5.5 dBi
Sample Type	:	Prototype production	

## 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: KDB 558074 D01 DTS Meas Guidance v04		

2.2. Test Facilities

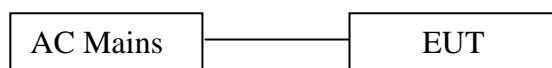
EMC Lab	:	<p>Certificated by CNAS, CHINA  Registration No.: L5288  Date of registration: November 13, 2014</p> <p>Certificated by FCC, USA  Registration No.: 989591  Date of registration: November 15, 2016</p> <p>Certificated by Industry Canada  Registration No.: 9405A-1  Date of registration: December 30, 2015</p> <p>Certificated by VCCI, Japan  Registration No.: R-3663 &amp; C-4103  Date of registration: July 25, 2014</p> <p>Certificated by TUV Rheinland, Germany  Registration No.: UA 50195514 0001  Date of registration: February 07, 2015</p> <p>Certificated by TUV/PS, Shenzhen  Registration No.: SCN1017  Date of registration: January 27, 2011</p> <p>Certificated by Intertek ETL SEMKO  Registration No.: 2011-RTL-L1-18  Date of registration: April 28, 2011</p> <p>Certificated by Siemic, Inc.  Registration No.: SLCN021  Date of registration: November 8, 2011</p> <p>Certificated by Nemko, Hong Kong  Registration No.: 175193  Date of registration: May 4, 2011</p>
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 or 1.5 meter high above ground. EUT was be set into Wi-Fi test mode by software before test.



(EUT: INTERNET RADIO PLAYER)



2.5. Test mode

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

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

2.6. Channel List for wifi

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

## 2.7. Test Equipment

### 2.7.1. For conducted emission test

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

### 2.7.2. For radiated emission test(9 kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	100435	June 17,17	1 Year
Loop Antenna	ETS-LINDGREN	6502	00071730	June 08,17	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 17,17	1 Year

### 2.7.3. For radiated emissions test (30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June 17,17	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June 08,17	1 Year
Signal Amplifier	Agilent	310N	187037	June 17,17	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 17,17	1 Year

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

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120D1002	June 08,17	1 Year
Board-Band Antenna	Horn SCHWARZBECK	BBHA 9170	9170-497	June 08,17	1 Year
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June 17,17	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	June 17,17	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June 17,17	1 Year

### 3 POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Limit

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

Notes: 1. \* Decreasing linearly with logarithm of frequency.  
 2. The lower limit shall apply at the transition frequencies.

#### 3.2. 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.

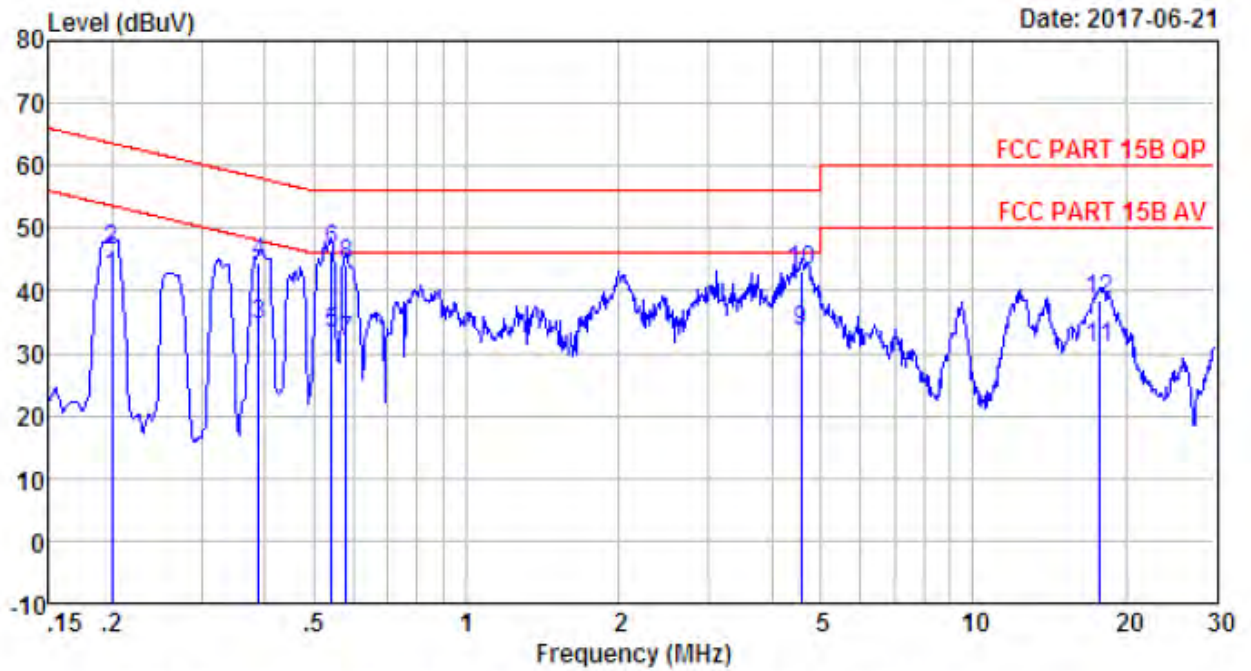
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

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

#### 3.3. Test Result

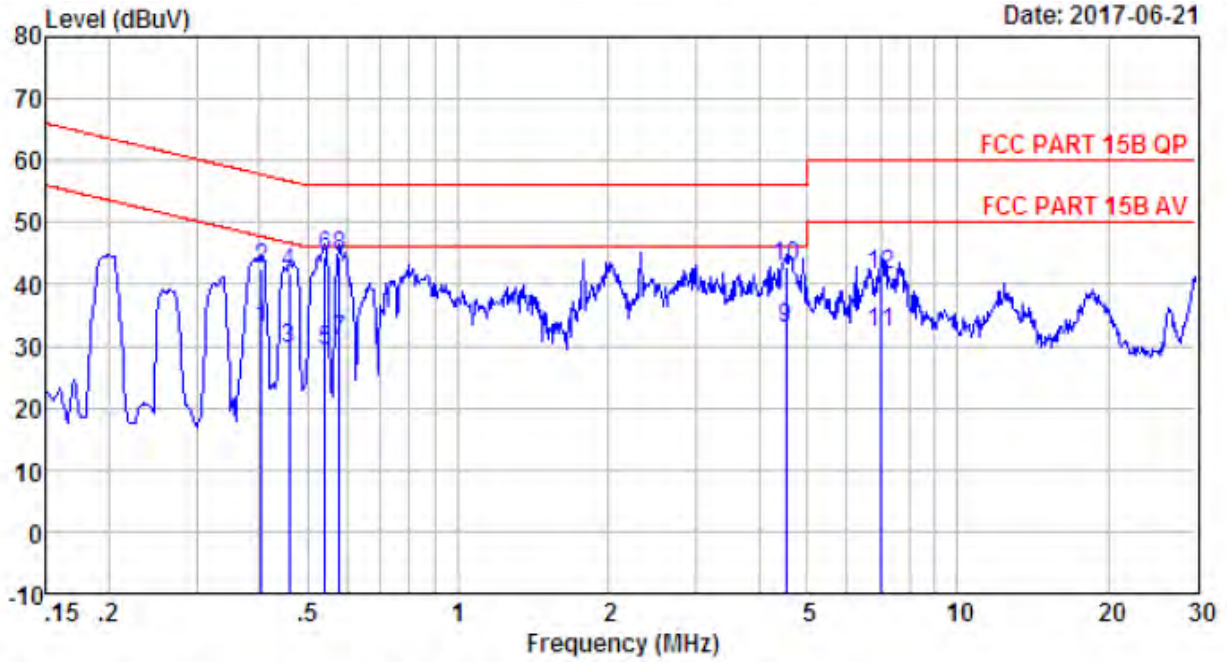
**PASS.**

3.4. Test data



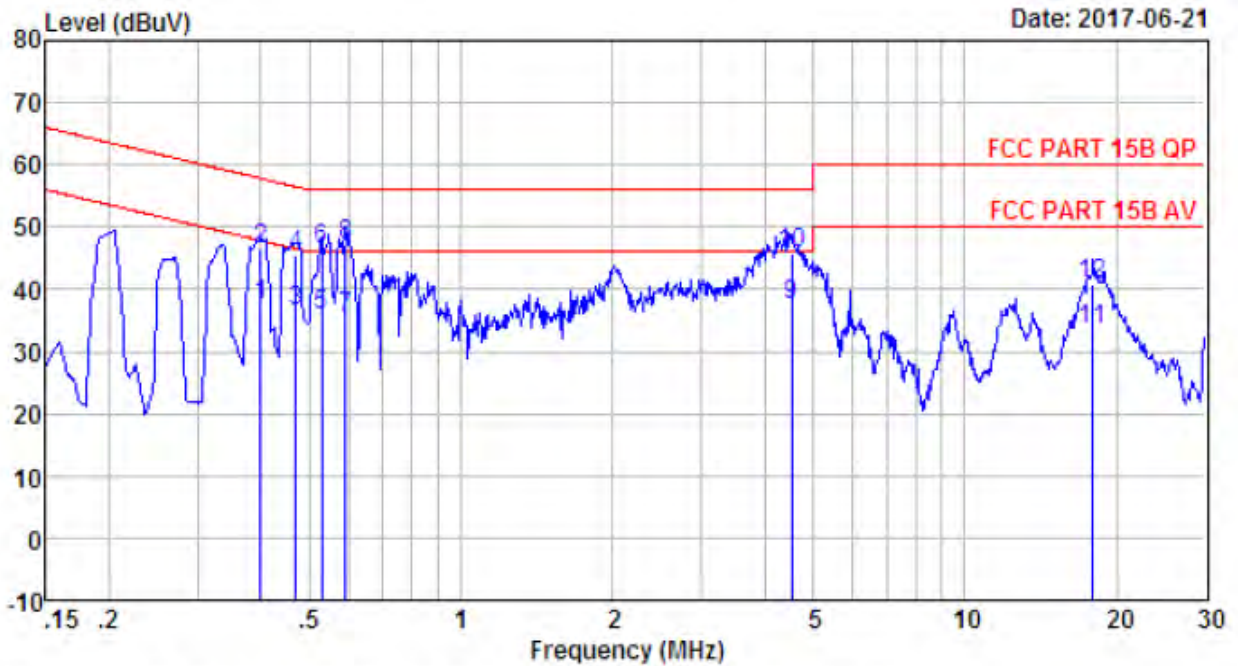
Site no : 2# Conduction Shield Room Data no. : 113  
 Env. / Ins. : Temp:27.9'C Humi:60% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.20	9.61	9.80	22.57	41.98	53.62	11.64	Average
2	0.20	9.61	9.80	26.93	46.34	63.62	17.28	QP
3	0.39	9.61	9.82	14.94	34.37	48.08	13.71	Average
4	0.39	9.61	9.82	24.89	44.32	58.08	13.76	QP
5	0.54	9.61	9.82	13.71	33.14	46.00	12.86	Average
6	0.54	9.61	9.82	27.17	46.60	56.00	9.40	QP
7	0.58	9.60	9.82	12.29	31.71	46.00	14.29	Average
8	0.58	9.60	9.82	24.83	44.25	56.00	11.75	QP
9	4.57	9.65	9.85	13.95	33.45	46.00	12.55	Average
10	4.57	9.65	9.85	23.67	43.17	56.00	12.83	QP
11	17.75	9.69	9.94	11.33	30.96	50.00	19.04	Average
12	17.75	9.69	9.94	18.91	38.54	60.00	21.46	QP



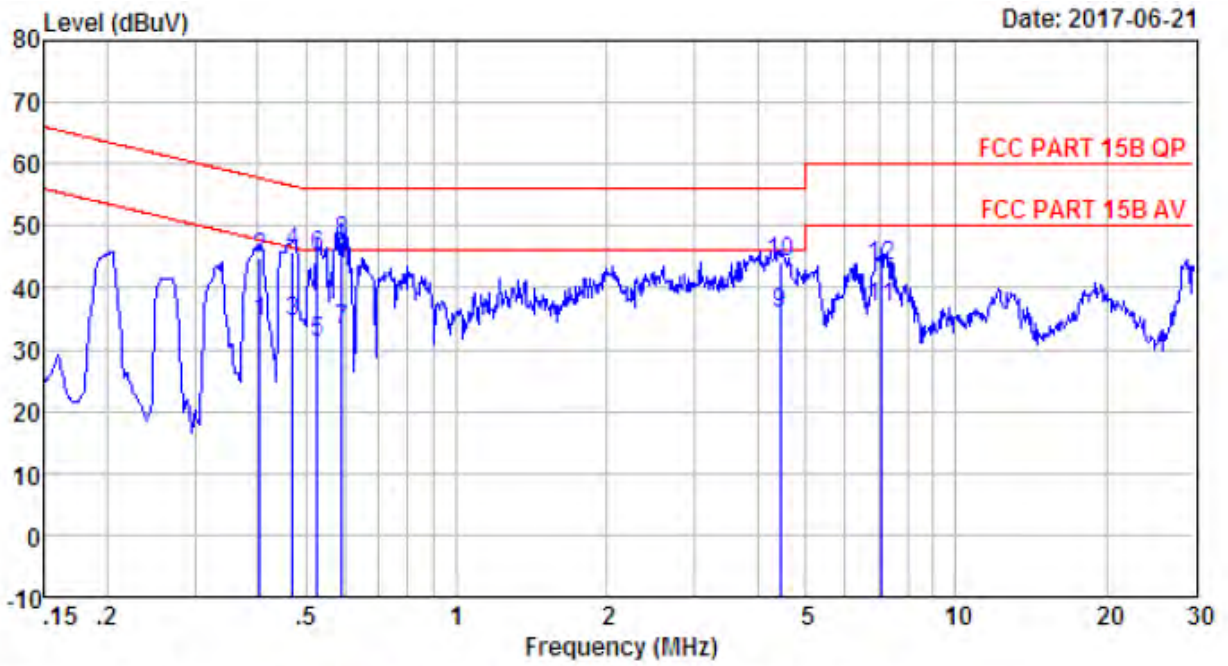
Site no : 2# Conduction Shield Room Data no. : 115  
 Env. / Ins. : Temp:27.9'C Humi:60% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.40	9.59	9.82	13.34	32.75	47.77	15.02	Average
2	0.40	9.59	9.82	23.17	42.58	57.77	15.19	QP
3	0.46	9.59	9.81	10.24	29.64	46.71	17.07	Average
4	0.46	9.59	9.81	22.24	41.64	56.71	15.07	QP
5	0.54	9.60	9.82	9.82	29.24	46.00	16.76	Average
6	0.54	9.60	9.82	25.18	44.60	56.00	11.40	QP
7	0.58	9.61	9.82	11.44	30.87	46.00	15.13	Average
8	0.58	9.61	9.82	24.96	44.39	56.00	11.61	QP
9	4.53	9.65	9.85	13.46	32.96	46.00	13.04	Average
10	4.53	9.65	9.85	23.17	42.67	56.00	13.33	QP
11	7.02	9.66	9.87	12.62	32.15	50.00	17.85	Average
12	7.02	9.66	9.87	21.79	41.32	60.00	18.68	QP



Site no : 2# Contuction Shield Room Data no. : 117  
 Env. / Ins. : Temp:27.9'C Humi:60% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 240V/60Hz  
 M/N : DN-350UI  
 Test Mode : IX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.40	9.61	9.82	18.01	37.44	47.86	10.42	Average
2	0.40	9.61	9.82	27.03	46.46	57.86	11.40	QP
3	0.47	9.61	9.81	17.00	36.42	46.49	10.07	Average
4	0.47	9.61	9.81	26.12	45.54	56.49	10.95	QP
5	0.53	9.61	9.81	16.42	35.84	46.00	10.16	Average
6	0.53	9.61	9.81	26.93	46.35	56.00	9.65	QP
7	0.59	9.60	9.82	16.04	35.46	46.00	10.54	Average
8	0.59	9.60	9.82	27.69	47.11	56.00	8.89	QP
9	4.53	9.65	9.85	18.12	37.62	46.00	8.38	Average
10	4.53	9.65	9.85	26.17	45.67	56.00	10.33	QP
11	17.94	9.69	9.94	13.73	33.36	50.00	16.64	Average
12	17.94	9.69	9.94	21.16	40.79	60.00	19.21	QP



Site no : 2# Contuction Shield Room Data no. : 119  
 Env. / Ins. : Temp:27.9'C Humi:60% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 240V/60Hz  
 M/N : DN-350UI  
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.40	9.59	9.82	15.09	34.50	47.77	13.27	Average
2	0.40	9.59	9.82	25.54	44.95	57.77	12.82	QP
3	0.47	9.59	9.81	15.17	34.57	46.49	11.92	Average
4	0.47	9.59	9.81	26.42	45.82	56.49	10.67	QP
5	0.53	9.60	9.81	11.84	31.25	46.00	14.75	Average
6	0.53	9.60	9.81	25.58	44.99	56.00	11.01	QP
7	0.59	9.61	9.82	13.83	33.26	46.00	12.74	Average
8	0.59	9.61	9.82	27.88	47.31	56.00	8.69	QP
9	4.45	9.65	9.85	16.47	35.97	46.00	10.03	Average
10	4.45	9.65	9.85	24.71	44.21	56.00	11.79	QP
11	7.10	9.66	9.86	17.21	36.73	50.00	13.27	Average
12	7.10	9.66	9.86	23.83	43.35	60.00	16.65	QP

## 4 RADIATED EMISSION TEST

### 4.1 Limit

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.

#### 15.205 Restricted frequency band

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

#### 15.209 Limit

Frequency (MHz)	Field Strength(μV/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark : (1) Emission level dBμV = 20 log Emission level μV/m

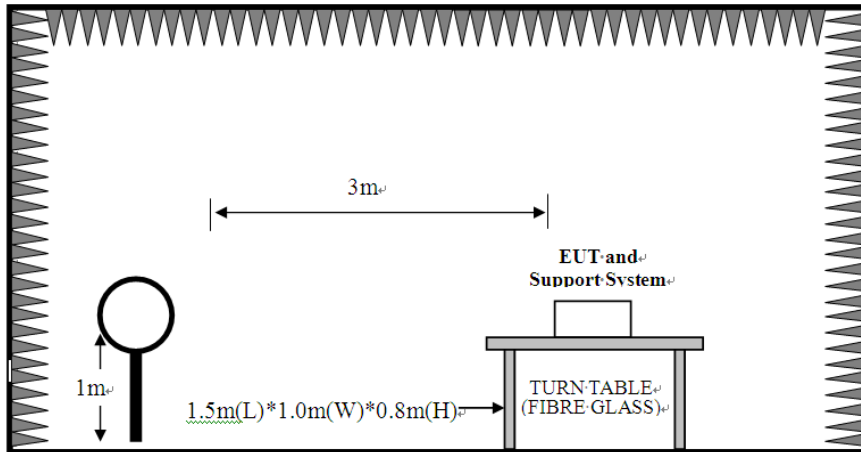
(2) The smaller limit shall apply at the cross point between two frequency bands.

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

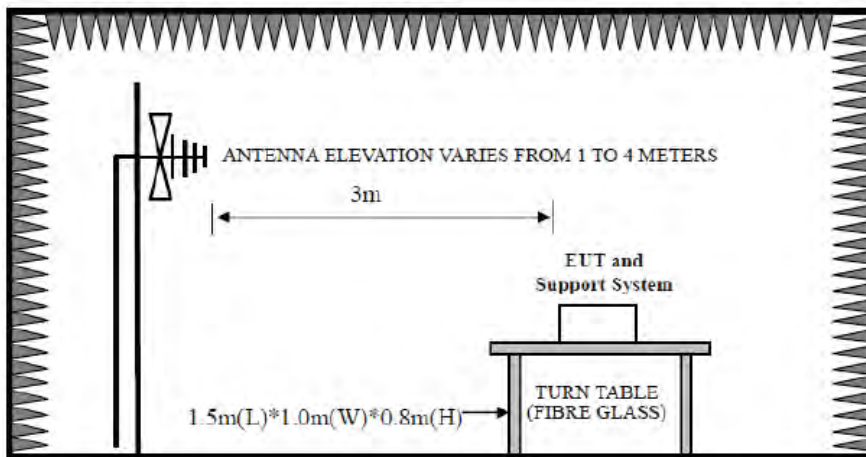


### 4.2. Block Diagram of Test setup

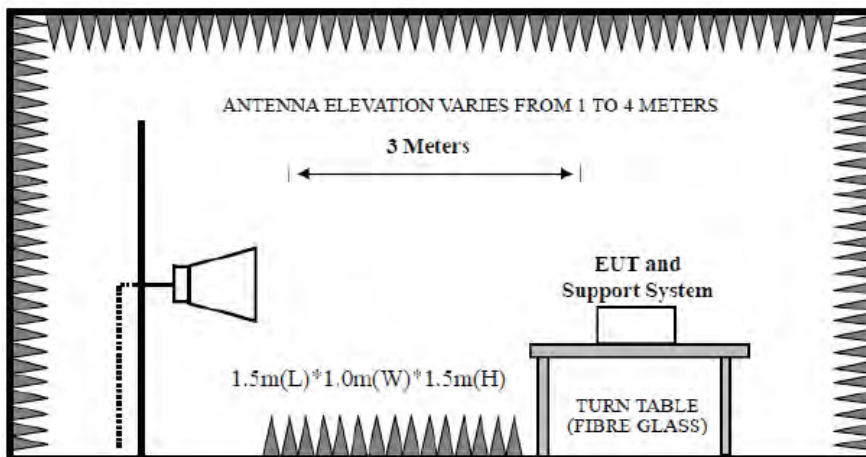
9kHz~30MHz



30~1000MHz



Above 1GHz



### 4.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. 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 an antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz 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.**

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 、 2437MHz 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.

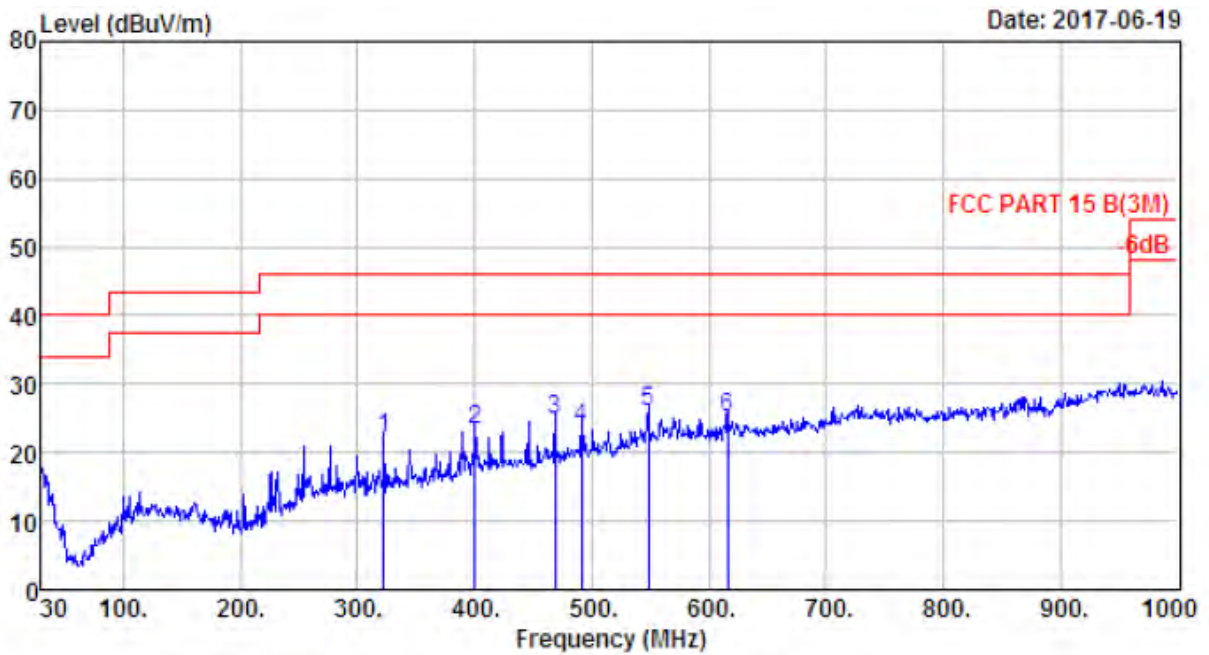
#### 4.5. Test Data

9 kHz – 30 MHz

Pass

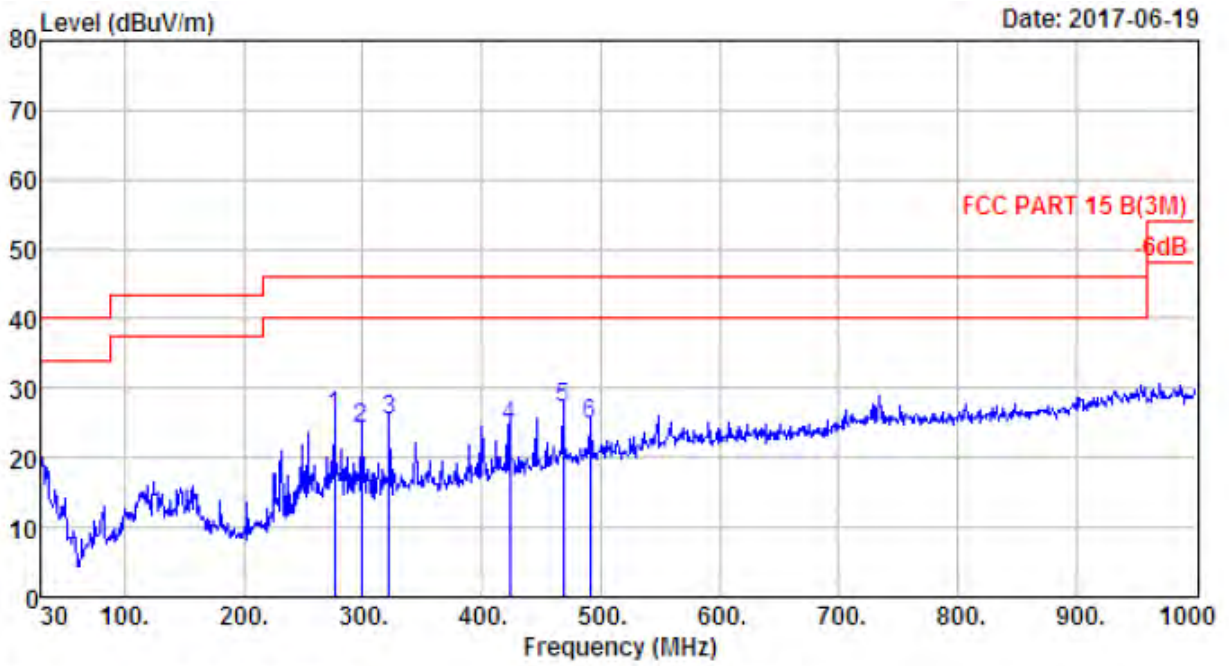
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

30-1000 MHz



Site no. : 1# 966 Chamber Data no. : 963  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:24.3';Humi:51%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 Test Mode : IX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	321.97	13.63	2.42	6.05	22.10	46.00	23.90	QP
2	400.54	16.07	2.66	4.63	23.36	46.00	22.64	QP
3	468.44	17.14	3.09	4.65	24.88	46.00	21.12	QP
4	490.75	17.82	3.09	2.59	23.50	46.00	22.50	QP
5	547.98	19.45	3.23	3.29	25.97	46.00	20.03	QP
6	615.88	19.97	3.49	1.64	25.10	46.00	20.90	QP



```

Site no.       : 1# 966 Chamber           Data no.   : 964
Dis. / Ant.    : 3m 27137                Ant. pol.  : VERTICAL
Limit         : FCC PART 15 B(3M)
Env. / Ins.    : Temp:24.3';Humi:51%;Press:101.52kPa
Engineer      : Viking
EUI           : INTERNET RADIO PLAYER
Power         : AC 120V/60Hz
M/N           : DN-350UI
Test Mode     : TX Mode
  
```

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	276.38	12.36	2.26	11.37	25.99	46.00	20.01	QP
2	298.69	13.00	2.40	8.66	24.06	46.00	21.94	QP
3	321.97	13.63	2.42	9.24	25.29	46.00	20.71	QP
4	423.82	16.20	2.77	5.57	24.54	46.00	21.46	QP
5	468.44	17.14	3.09	7.01	27.24	46.00	18.76	QP
6	490.75	17.82	3.09	3.75	24.66	46.00	21.34	QP

1000-18000 MHz

Site no. : 1# 966 Chamber Data no. : 569  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUI : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	97.81	97.41	74.00	-23.41	Peak
2	4824.00	31.28	11.84	35.66	44.30	51.76	74.00	22.24	Peak
3	7236.00	36.53	11.55	33.99	29.34	43.43	74.00	30.57	Peak
4	8684.00	37.32	11.45	33.66	28.89	44.00	74.00	30.00	Peak
5	11200.00	39.39	11.14	33.24	26.07	43.36	74.00	30.64	Peak
6	13495.00	40.07	11.50	32.65	24.86	43.78	74.00	30.22	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. : 570  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUI : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	95.54	95.14	74.00	-21.14	Peak
2	4824.00	31.28	11.84	35.66	39.58	47.04	74.00	26.96	Peak
3	7236.00	36.53	11.55	33.99	28.04	42.13	74.00	31.87	Peak
4	8684.00	37.32	11.45	33.66	28.45	43.56	74.00	30.44	Peak
5	11370.00	39.28	11.02	33.51	26.95	43.74	74.00	30.26	Peak
6	14005.00	41.46	10.90	33.01	25.06	44.41	74.00	29.59	Peak

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

Site no. : 1# 966 Chamber Data no. : 573  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	98.25	97.67	74.00	-23.67	Peak
2	4874.00	31.37	12.07	35.76	39.70	47.38	74.00	26.62	Peak
3	7311.00	36.55	11.57	34.12	28.50	42.50	74.00	31.50	Peak
4	8684.00	37.32	11.45	33.66	27.60	42.71	74.00	31.29	Peak
5	11115.00	39.44	11.20	33.55	25.44	42.53	74.00	31.47	Peak
6	13546.00	40.21	11.44	32.61	24.99	44.03	74.00	29.97	Peak

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

Site no. : 1# 966 Chamber Data no. : 574  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	96.18	95.60	74.00	-21.60	Peak
2	4874.00	31.37	12.07	35.76	39.78	47.46	74.00	26.54	Peak
3	7311.00	36.55	11.57	34.12	28.88	42.88	74.00	31.12	Peak
4	8735.00	37.40	11.45	33.76	28.25	43.34	74.00	30.66	Peak
5	11064.00	39.48	11.24	33.83	26.44	43.33	74.00	30.67	Peak
6	14056.00	41.51	10.90	33.06	24.08	43.43	74.00	30.57	Peak

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

Site no. : 1# 966 Chamber Data no. : 575  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUI : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	95.59	94.88	74.00	-20.88	Peak
2	4924.00	31.45	12.29	35.91	39.98	47.81	74.00	26.19	Peak
3	7386.00	36.57	11.59	34.23	28.50	42.43	74.00	31.57	Peak
4	8684.00	37.32	11.45	33.66	27.56	42.67	74.00	31.33	Peak
5	11234.00	39.37	11.12	33.25	26.04	43.28	74.00	30.72	Peak
6	13954.00	41.35	10.96	32.99	25.66	44.98	74.00	29.02	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. : 576  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUI : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	98.32	97.61	74.00	-23.61	Peak
2	4924.00	31.45	12.29	35.91	39.94	47.77	74.00	26.23	Peak
3	7386.00	36.57	11.59	34.23	28.90	42.83	74.00	31.17	Peak
4	8684.00	37.32	11.45	33.66	27.19	42.30	74.00	31.70	Peak
5	11166.00	39.41	11.17	33.31	25.87	43.14	74.00	30.86	Peak
6	14124.00	41.57	10.91	33.22	24.83	44.09	74.00	29.91	Peak

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



Site no. : 1# 966 Chamber Data no. : 579  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	93.72	93.32	74.00	-19.32	Peak
2	4824.00	31.28	11.84	35.66	39.44	46.90	74.00	27.10	Peak
3	7236.00	36.53	11.55	33.99	28.23	42.32	74.00	31.68	Peak
4	8480.00	36.91	11.45	34.18	29.80	43.98	74.00	30.02	Peak
5	11200.00	39.39	11.14	33.24	25.83	43.12	74.00	30.88	Peak
6	13920.00	41.26	11.00	33.00	24.00	43.26	74.00	30.74	Peak

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

Site no. : 1# 966 Chamber Data no. : 580  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	96.14	95.74	74.00	-21.74	Peak
2	4824.00	31.28	11.84	35.66	41.93	49.39	74.00	24.61	Peak
3	7236.00	36.53	11.55	33.99	29.30	43.39	74.00	30.61	Peak
4	8684.00	37.32	11.45	33.66	29.29	44.40	74.00	29.60	Peak
5	10996.00	39.52	11.29	34.11	27.33	44.03	74.00	29.97	Peak
6	14090.00	41.54	10.91	33.13	25.81	45.13	74.00	28.87	Peak

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

Site no. : 1# 966 Chamber Data no. : 583  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	93.85	93.27	74.00	-19.27	Peak
2	4874.00	31.37	12.07	35.76	34.22	41.90	74.00	32.10	Peak
3	7311.00	36.55	11.57	34.12	28.76	42.76	74.00	31.24	Peak
4	8684.00	37.32	11.45	33.66	28.85	43.96	74.00	30.04	Peak
5	10265.00	38.56	11.44	34.49	27.59	43.10	74.00	30.90	Peak
6	14124.00	41.57	10.91	33.22	24.85	44.11	74.00	29.89	Peak

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

Site no. : 1# 966 Chamber Data no. : 584  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	94.79	94.21	74.00	-20.21	Peak
2	4874.00	31.37	12.07	35.76	35.86	43.54	74.00	30.46	Peak
3	7311.00	36.55	11.57	34.12	28.53	42.53	74.00	31.47	Peak
4	8684.00	37.32	11.45	33.66	29.08	44.19	74.00	29.81	Peak
5	11285.00	39.33	11.08	33.32	27.53	44.62	74.00	29.38	Peak
6	14056.00	41.51	10.90	33.06	25.53	44.88	74.00	29.12	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. : 585  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	96.51	95.80	74.00	-21.80	Peak
2	4924.00	31.45	12.29	35.91	41.01	48.84	74.00	25.16	Peak
3	7386.00	36.57	11.59	34.23	29.30	43.23	74.00	30.77	Peak
4	8684.00	37.32	11.45	33.66	28.25	43.36	74.00	30.64	Peak
5	10724.00	39.22	11.30	34.14	27.01	43.39	74.00	30.61	Peak
6	14056.00	41.51	10.90	33.06	25.28	44.63	74.00	29.37	Peak

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

Site no. : 1# 966 Chamber Data no. : 586  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	95.43	94.72	74.00	-20.72	Peak
2	4924.00	31.45	12.29	35.91	38.96	46.79	74.00	27.21	Peak
3	7386.00	36.57	11.59	34.23	30.38	44.31	74.00	29.69	Peak
4	8667.00	37.30	11.45	33.67	29.23	44.31	74.00	29.69	Peak
5	11540.00	39.16	10.95	33.36	26.70	43.45	74.00	30.55	Peak
6	13240.00	39.46	11.46	32.88	26.72	44.76	74.00	29.24	Peak

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

Site no. : 1# 966 Chamber Data no. : 589  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	94.07	93.67	74.00	-19.67	Peak
2	4824.00	31.28	11.84	35.66	40.18	47.64	74.00	26.36	Peak
3	7236.00	36.53	11.55	33.99	28.16	42.25	74.00	31.75	Peak
4	8684.00	37.32	11.45	33.66	28.64	43.75	74.00	30.25	Peak
5	11064.00	39.48	11.24	33.83	27.13	44.02	74.00	29.98	Peak
6	13886.00	41.16	11.04	33.03	25.71	44.88	74.00	29.12	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. : 590  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	92.86	92.46	74.00	-18.46	Peak
2	4824.00	31.28	11.84	35.66	37.22	44.68	74.00	29.32	Peak
3	7236.00	36.53	11.55	33.99	28.19	42.28	74.00	31.72	Peak
4	8684.00	37.32	11.45	33.66	29.23	44.34	74.00	29.66	Peak
5	11404.00	39.25	10.99	33.57	27.72	44.39	74.00	29.61	Peak
6	14124.00	41.57	10.91	33.22	25.20	44.46	74.00	29.54	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.

Site no. : 1# 966 Chamber Data no. : 593  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	94.57	93.99	74.00	-19.99	Peak
2	4874.00	31.37	12.07	35.76	40.67	48.35	74.00	25.65	Peak
3	7311.00	36.55	11.57	34.12	29.36	43.36	74.00	30.64	Peak
4	8650.00	37.27	11.45	33.68	28.64	43.68	74.00	30.32	Peak
5	11234.00	39.37	11.12	33.25	26.97	44.21	74.00	29.79	Peak
6	13614.00	40.40	11.36	32.68	25.43	44.51	74.00	29.49	Peak

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

Site no. : 1# 966 Chamber Data no. : 594  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	92.77	92.19	74.00	-18.19	Peak
2	4874.00	31.37	12.07	35.76	34.29	41.97	74.00	32.03	Peak
3	7311.00	36.55	11.57	34.12	30.03	44.03	74.00	29.97	Peak
4	8701.00	37.35	11.45	33.65	29.19	44.34	74.00	29.66	Peak
5	11200.00	39.39	11.14	33.24	26.63	43.92	74.00	30.08	Peak
6	14090.00	41.54	10.91	33.13	25.42	44.74	74.00	29.26	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. : 595  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	92.98	92.27	74.00	-18.27	Peak
2	4924.00	31.45	12.29	35.91	37.26	45.09	74.00	28.91	Peak
3	7386.00	36.57	11.59	34.23	29.15	43.08	74.00	30.92	Peak
4	8684.00	37.32	11.45	33.66	28.65	43.76	74.00	30.24	Peak
5	11200.00	39.39	11.14	33.24	26.87	44.16	74.00	29.84	Peak
6	14005.00	41.46	10.90	33.01	26.45	45.80	74.00	28.20	Peak

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

Site no. : 1# 966 Chamber Data no. : 596  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	93.90	93.19	74.00	-19.19	Peak
2	4924.00	31.45	12.29	35.91	38.21	46.04	74.00	27.96	Peak
3	7386.00	36.57	11.59	34.23	28.93	42.86	74.00	31.14	Peak
4	8684.00	37.32	11.45	33.66	28.56	43.67	74.00	30.33	Peak
5	11285.00	39.33	11.08	33.32	27.09	44.18	74.00	29.82	Peak
6	13104.00	39.13	11.44	32.77	26.49	44.29	74.00	29.71	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. : 599  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	92.03	91.55	74.00	-17.55	Peak
2	4844.00	31.31	11.92	35.68	34.85	42.40	74.00	31.60	Peak
3	7266.00	36.54	11.56	34.05	29.33	43.38	74.00	30.62	Peak
4	8004.00	37.01	11.40	34.96	30.60	44.05	74.00	29.95	Peak
5	11336.00	39.30	11.04	33.44	27.33	44.23	74.00	29.77	Peak
6	13240.00	39.46	11.46	32.88	26.92	44.96	74.00	29.04	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. : 600  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	93.10	92.62	74.00	-18.62	Peak
2	4844.00	31.31	11.92	35.68	38.74	46.29	74.00	27.71	Peak
3	7266.00	36.54	11.56	34.05	29.76	43.81	74.00	30.19	Peak
4	8684.00	37.32	11.45	33.66	28.94	44.05	74.00	29.95	Peak
5	12220.00	38.68	11.19	33.57	28.25	44.55	74.00	29.45	Peak
6	13716.00	40.69	11.24	32.94	25.72	44.71	74.00	29.29	Peak

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

Site no. : 1# 966 Chamber Data no. : 603  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	91.88	91.30	74.00	-17.30	Peak
2	4874.00	31.37	12.07	35.76	34.15	41.83	74.00	32.17	Peak
3	7311.00	36.55	11.57	34.12	28.66	42.66	74.00	31.34	Peak
4	8684.00	37.32	11.45	33.66	28.25	43.36	74.00	30.64	Peak
5	11217.00	39.38	11.13	33.24	26.70	43.97	74.00	30.03	Peak
6	13886.00	41.16	11.04	33.03	25.18	44.35	74.00	29.65	Peak

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

Site no. : 1# 966 Chamber Data no. : 604  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	93.38	92.80	74.00	-18.80	Peak
2	4874.00	31.37	12.07	35.76	38.70	46.38	74.00	27.62	Peak
3	7311.00	36.55	11.57	34.12	30.51	44.51	74.00	29.49	Peak
4	8684.00	37.32	11.45	33.66	28.81	43.92	74.00	30.08	Peak
5	11166.00	39.41	11.17	33.31	26.70	43.97	74.00	30.03	Peak
6	13274.00	39.54	11.47	32.92	25.98	44.07	74.00	29.93	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. : 605  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	93.06	92.47	74.00	-18.47	Peak
2	4904.00	31.42	12.22	35.87	36.00	43.77	74.00	30.23	Peak
3	7356.00	36.56	11.58	34.19	30.28	44.23	74.00	29.77	Peak
4	8684.00	37.32	11.45	33.66	29.05	44.16	74.00	29.84	Peak
5	11336.00	39.30	11.04	33.44	27.03	43.93	74.00	30.07	Peak
6	13886.00	41.16	11.04	33.03	25.14	44.31	74.00	29.69	Peak

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

Site no. : 1# 966 Chamber Data no. : 606  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	91.90	91.31	74.00	-17.31	Peak
2	4904.00	31.42	12.22	35.87	33.82	41.59	74.00	32.41	Peak
3	7356.00	36.56	11.58	34.19	29.17	43.12	74.00	30.88	Peak
4	8684.00	37.32	11.45	33.66	28.17	43.28	74.00	30.72	Peak
5	11234.00	39.37	11.12	33.25	27.17	44.41	74.00	29.59	Peak
6	13614.00	40.40	11.36	32.68	25.20	44.28	74.00	29.72	Peak

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

**18000MHz – 25000MHz**

Pass

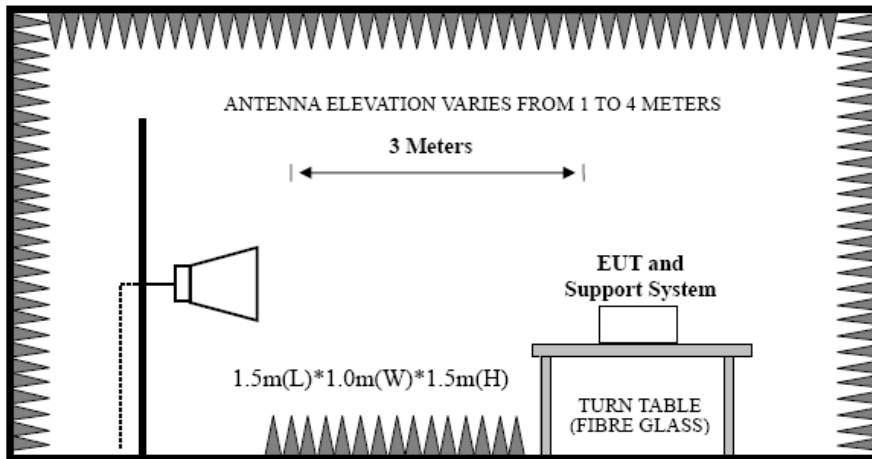
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

## 5 BAND EDGE COMPLIANCE TEST

### 5.1 Limit

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

### 5.2 Block Diagram of Test setup



### 5.3 Test Procedure

EUT was placed on a turn table, which is 1.5 m 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 an antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of emissions

Peak : RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto.

AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

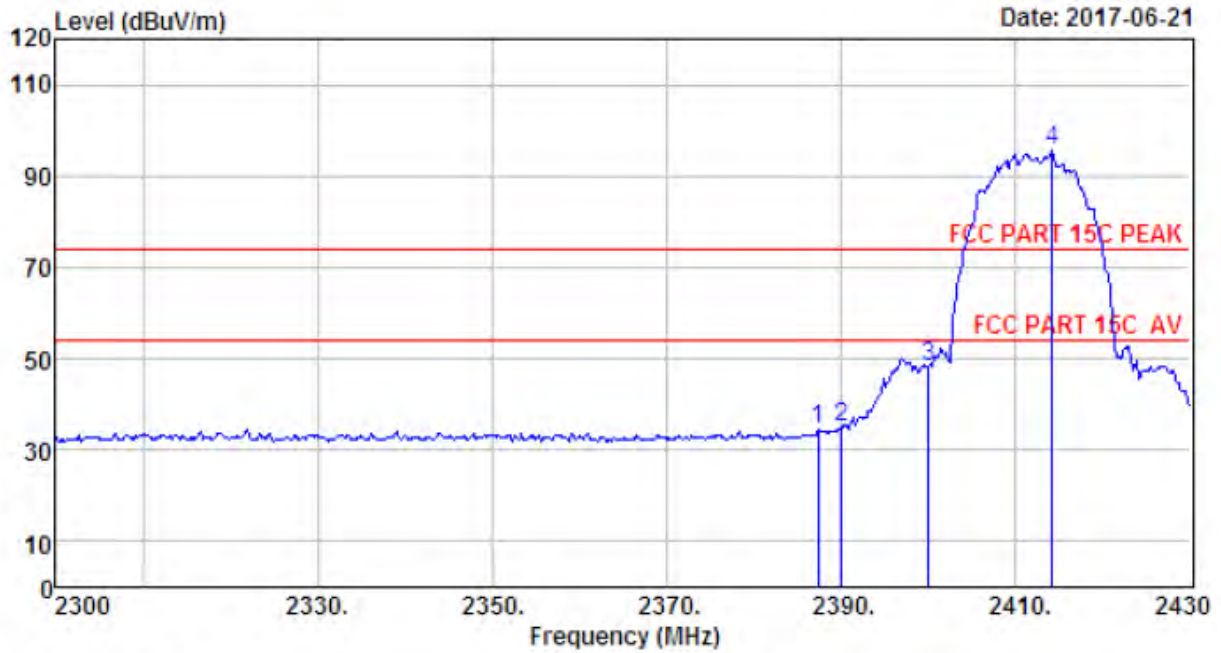
### 5.4 Test Result

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

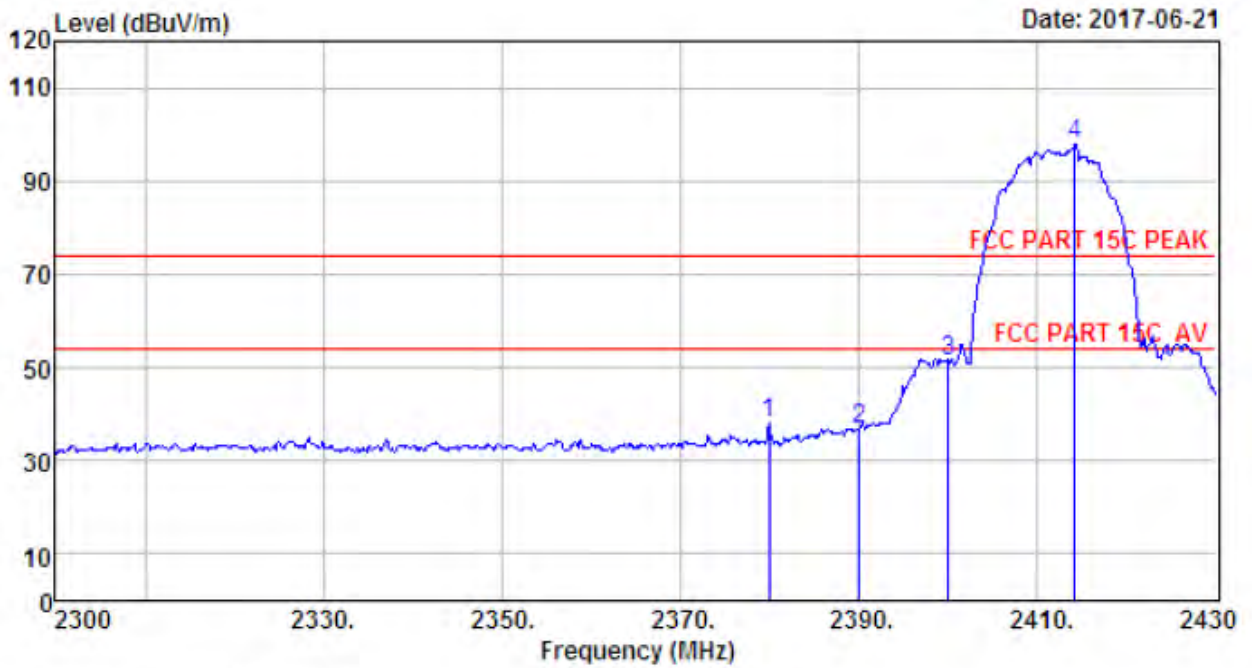
5.5 Test Data



Site no. : 1# 966 Chamber Data no. : 571  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	2387.36	27.64	6.62	34.62	35.05	34.69	74.00	39.31	Peak
2	2390.00	27.64	6.62	34.62	35.26	34.90	74.00	39.10	Peak
3	2400.00	27.61	6.62	34.64	48.69	48.28	74.00	25.72	Peak
4	2414.14	27.60	6.64	34.64	95.91	95.51	74.00	-21.51	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. : 572  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	2379.95	27.64	6.60	34.59	38.48	38.13	74.00	35.87	Peak
2	2390.00	27.64	6.62	34.62	37.10	36.74	74.00	37.26	Peak
3	2400.00	27.61	6.62	34.64	51.61	51.20	74.00	22.80	Peak
4	2414.14	27.60	6.64	34.64	98.19	97.79	74.00	-23.79	Peak

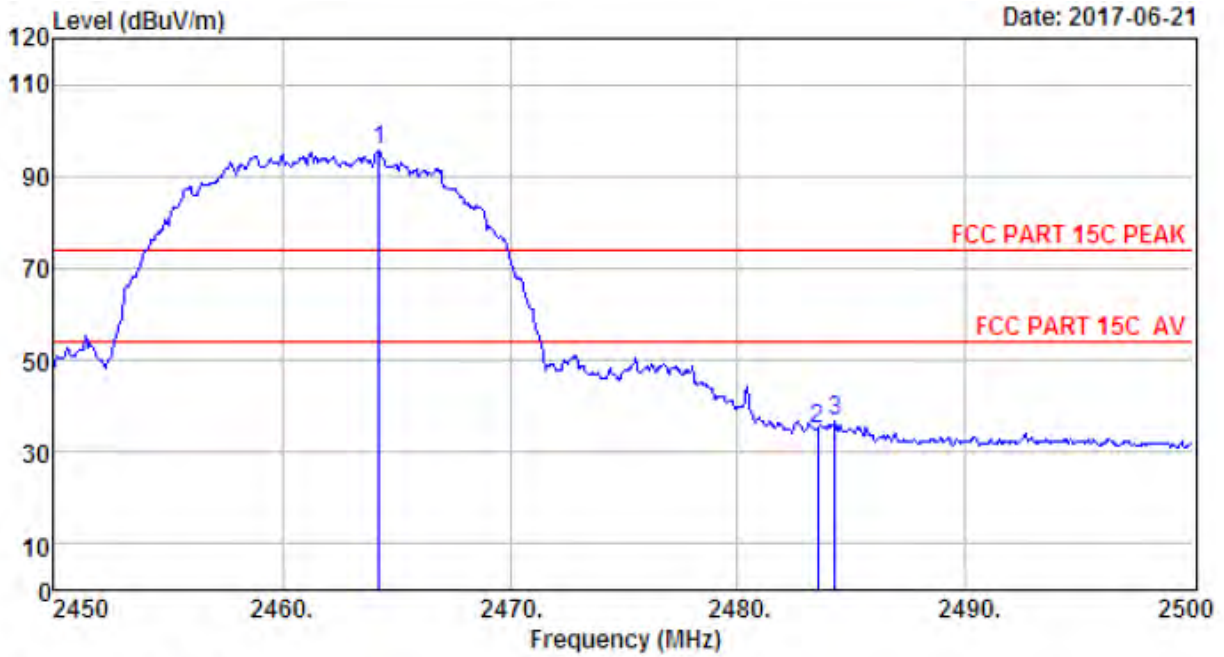
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 577  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUI : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	98.56	97.85	74.00	-23.85	Peak
2	2483.50	27.58	6.71	35.11	39.94	39.12	74.00	34.88	Peak
3	2483.90	27.58	6.71	35.11	42.34	41.52	74.00	32.48	Peak

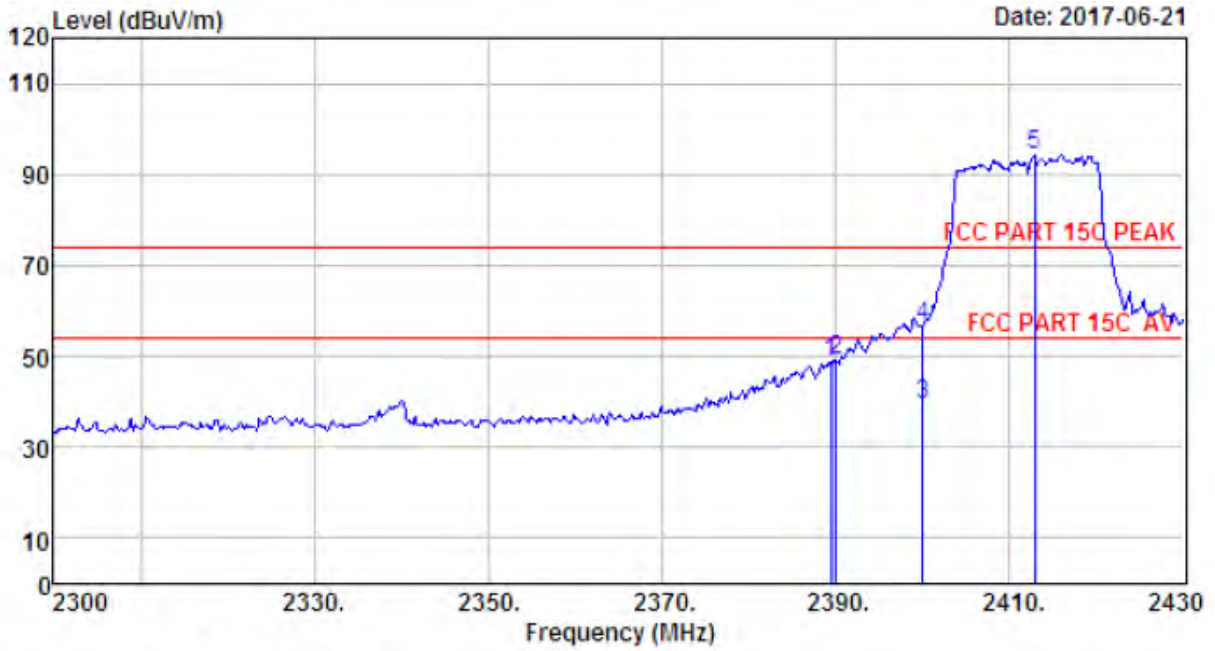
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 578  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUI : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	96.39	95.68	74.00	-21.68	Peak
2	2483.50	27.58	6.71	35.11	35.96	35.14	74.00	38.86	Peak
3	2484.25	27.58	6.71	35.11	37.67	36.85	74.00	37.15	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.

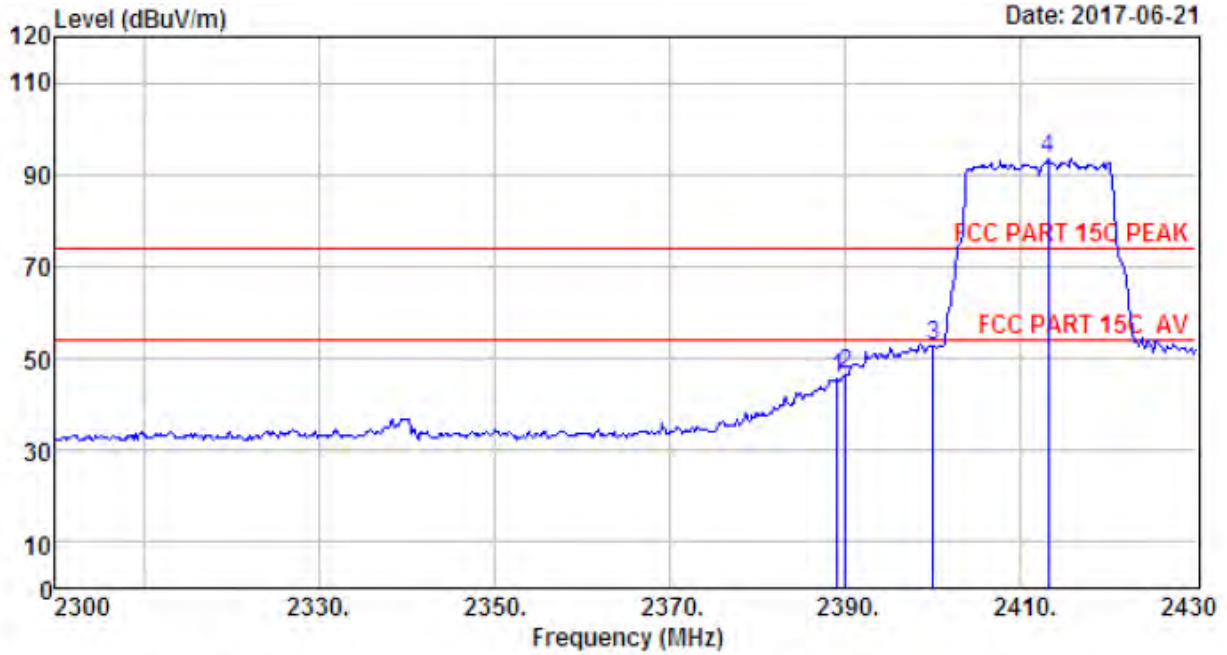


Site no. : 1# 966 Chamber Data no. : 581  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 Test Mode : IEEE 802.11g CH1 2412TX

	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	2389.44	27.64	6.62	34.62	49.23	48.87	74.00	25.13	Peak
2	2390.00	27.64	6.62	34.62	49.52	49.16	74.00	24.84	Peak
3	2400.00	27.61	6.62	34.64	39.63	39.22	54.00	14.78	Average
4	2400.00	27.61	6.62	34.64	57.18	56.77	74.00	17.23	Peak
5	2412.84	27.60	6.64	34.64	94.65	94.25	74.00	-20.25	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.

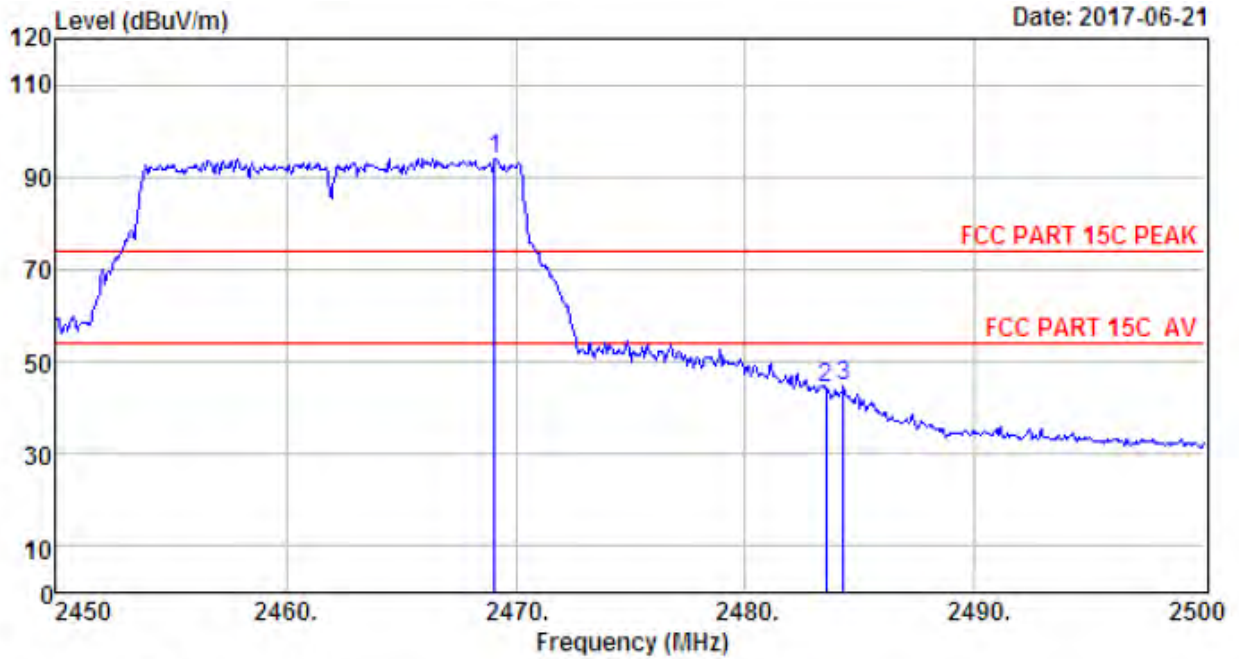




Site no. : 1# 966 Chamber Data no. : 582  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUI : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 Test Mode : IEEE 802.11g CH1 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	2389.05	27.64	6.62	34.62	45.79	45.43	74.00	28.57	Peak
2	2390.00	27.64	6.62	34.62	46.78	46.42	74.00	27.58	Peak
3	2400.00	27.61	6.62	34.64	53.20	52.79	74.00	21.21	Peak
4	2413.10	27.60	6.64	34.64	93.94	93.54	74.00	-19.54	Peak

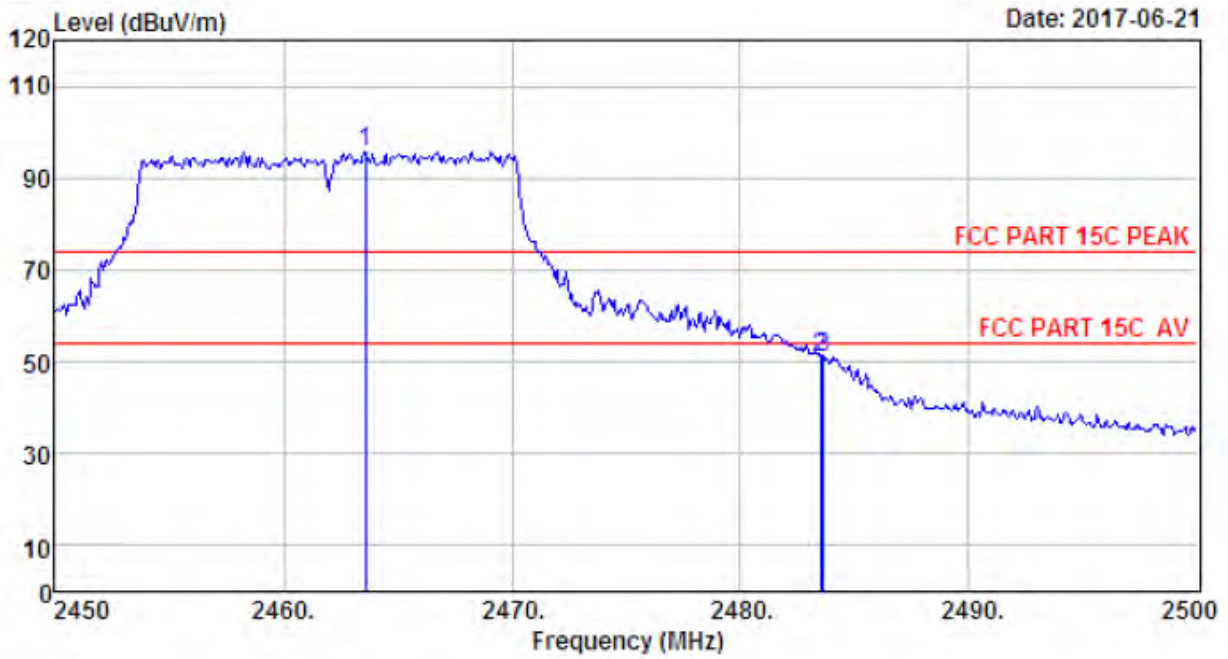
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber                      Data no. : 587  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	2469.10	27.58	6.69	34.98	94.80	94.09	74.00	-20.09	Peak
2	2483.50	27.58	6.71	35.11	44.99	44.17	74.00	29.83	Peak
3	2484.25	27.58	6.71	35.11	45.33	44.51	74.00	29.49	Peak

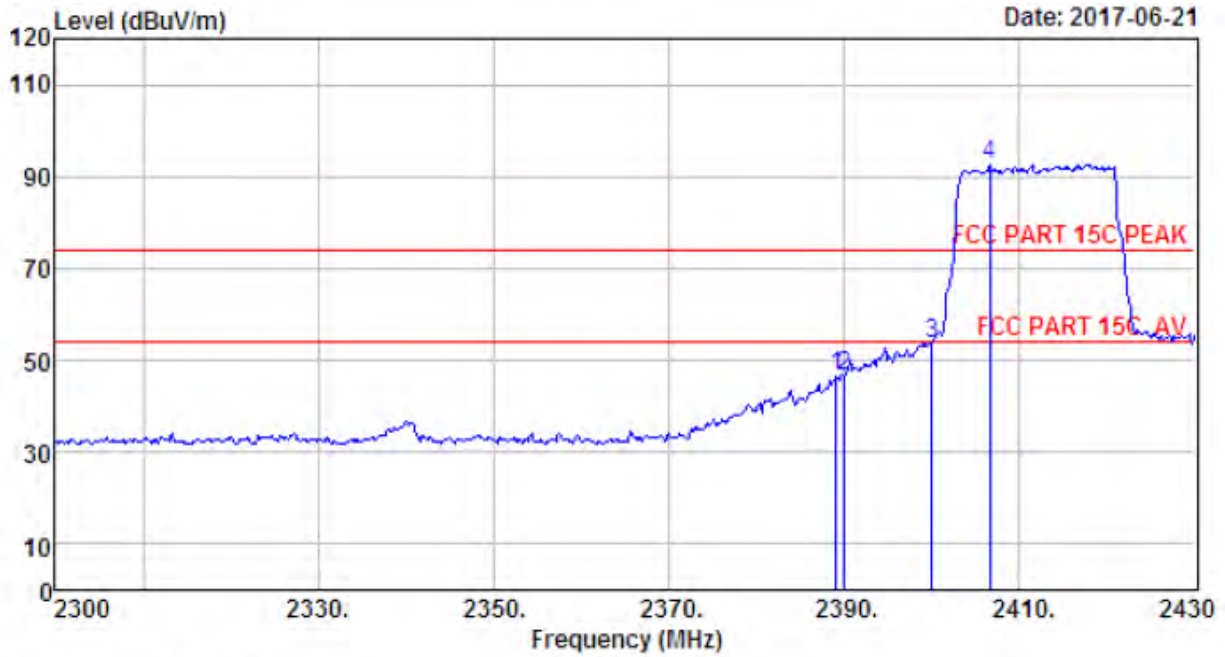
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber                      Data no. : 588  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUI : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	2463.60	27.58	6.69	34.98	96.50	95.79	74.00	-21.79	Peak
2	2483.50	27.58	6.71	35.11	51.93	51.11	74.00	22.89	Peak
3	2483.65	27.58	6.71	35.11	51.89	51.07	74.00	22.93	Peak

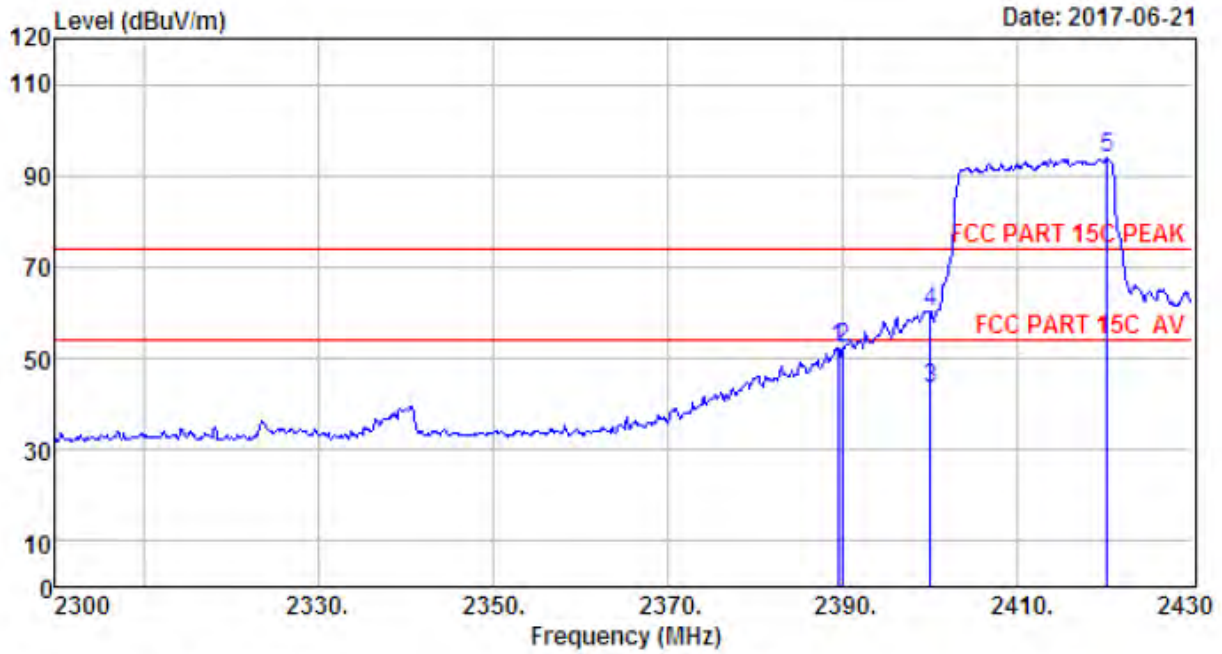
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber                      Data no. : 591  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	2389.05	27.64	6.62	34.62	46.93	46.57	74.00	27.43	Peak
2	2390.00	27.64	6.62	34.62	46.84	46.48	74.00	27.52	Peak
3	2400.00	27.61	6.62	34.64	54.15	53.74	74.00	20.26	Peak
4	2406.60	27.61	6.64	34.64	93.09	92.70	74.00	-18.70	Peak

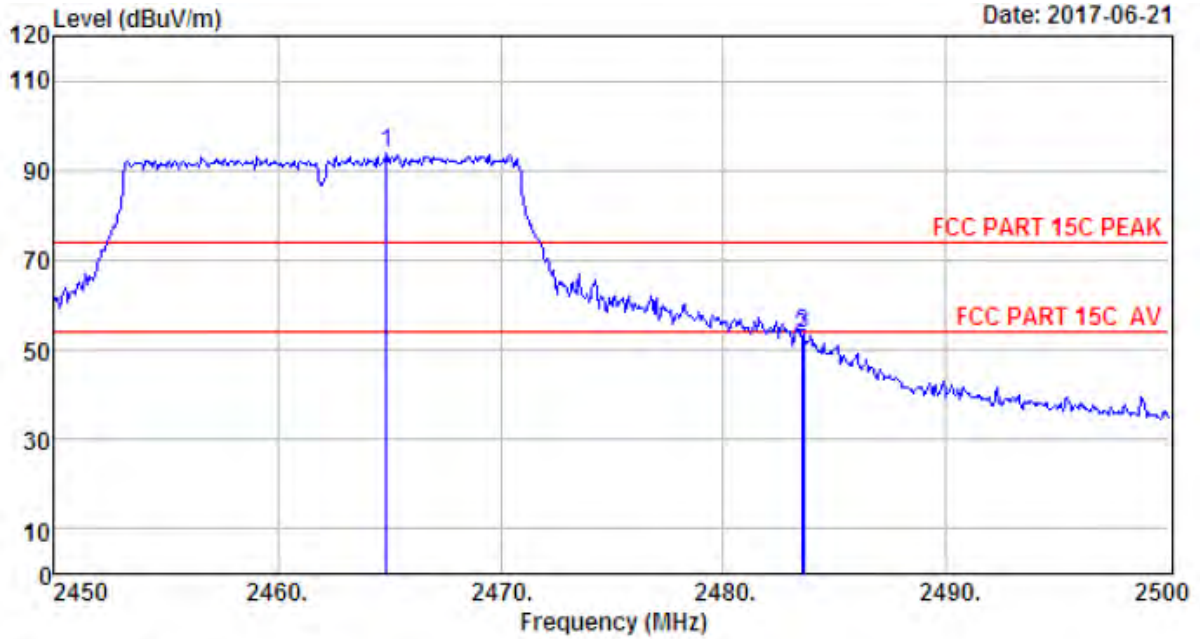
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber                      Data no. : 592  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 Test Mode : IEEE 802.11n HT20 CH1 2412IX

	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	2389.44	27.64	6.62	34.62	52.82	52.46	74.00	21.54	Peak
2	2390.00	27.64	6.62	34.62	52.56	52.20	74.00	21.80	Peak
3	2400.00	27.61	6.62	34.64	43.77	43.36	54.00	10.64	Average
4	2400.00	27.61	6.62	34.64	60.57	60.16	74.00	13.84	Peak
5	2420.25	27.60	6.66	34.74	94.31	93.83	74.00	-19.83	Peak

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

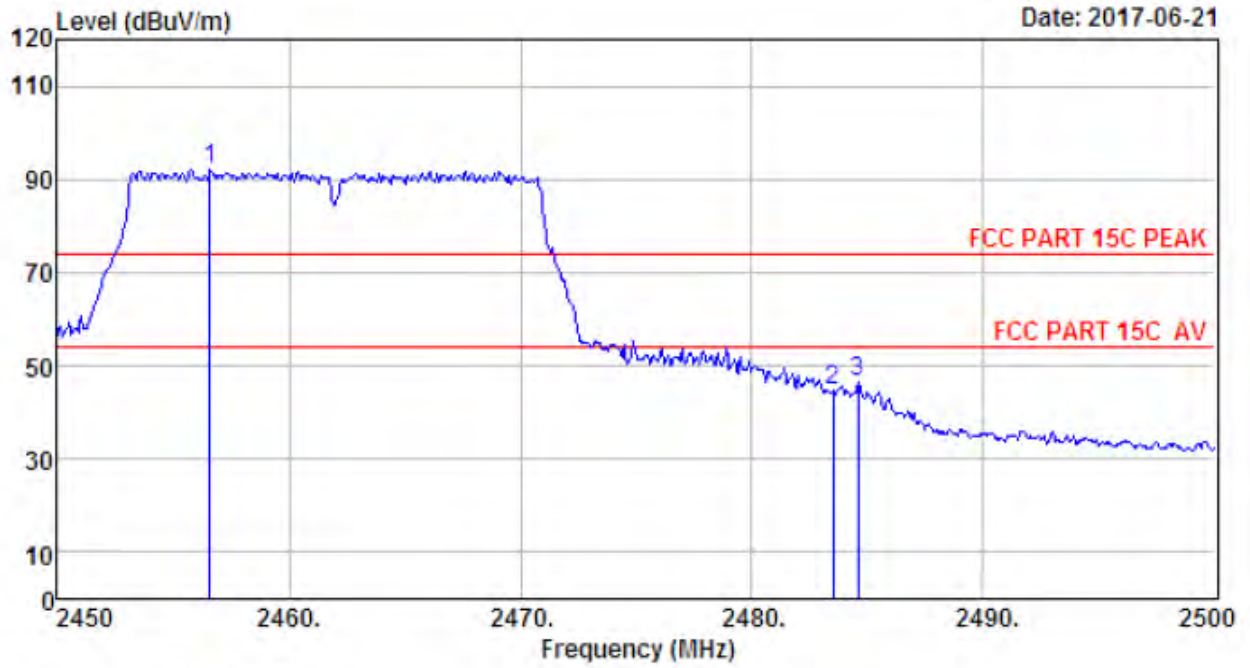


Date: 2017-06-21

Site no. : 1# 966 Chamber                      Data no. : 597  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	2464.90	27.58	6.69	34.98	94.38	93.67	74.00	-19.67	Peak
2	2483.50	27.58	6.71	35.11	53.46	52.64	74.00	21.36	Peak
3	2483.60	27.58	6.71	35.11	54.36	53.54	74.00	20.46	Peak

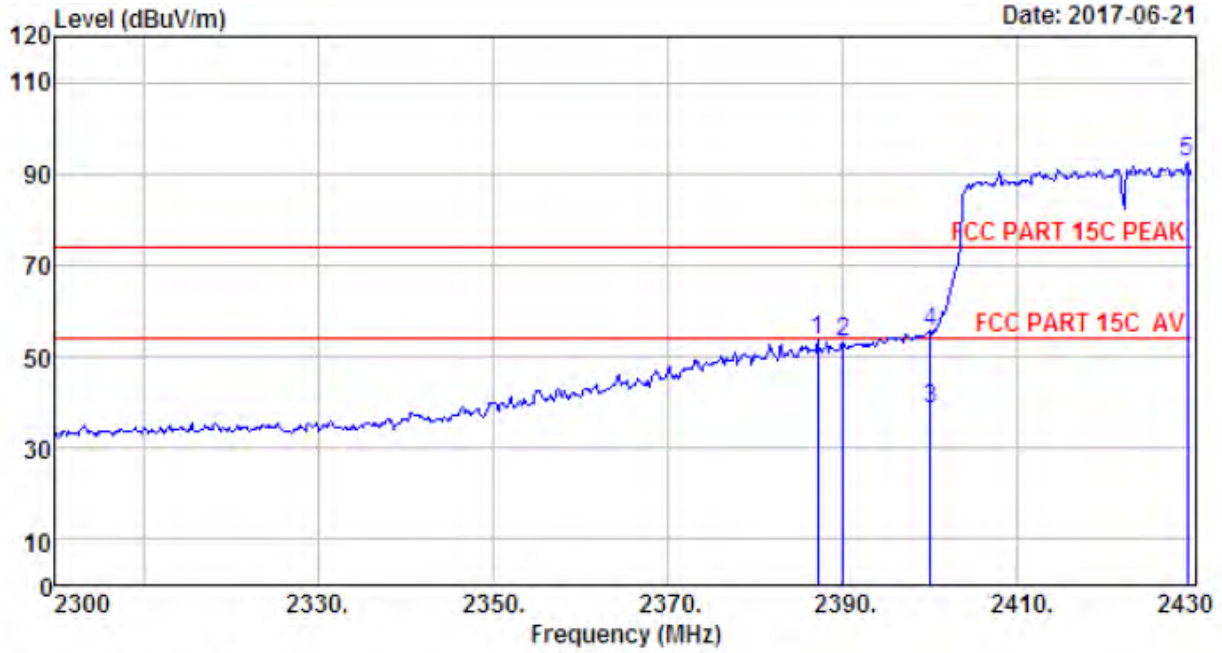
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 598  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	2456.60	27.59	6.69	34.98	92.93	92.23	74.00	-18.23	Peak
2	2483.50	27.58	6.71	35.11	45.53	44.71	74.00	29.29	Peak
3	2484.60	27.58	6.71	35.11	47.10	46.28	74.00	27.72	Peak

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

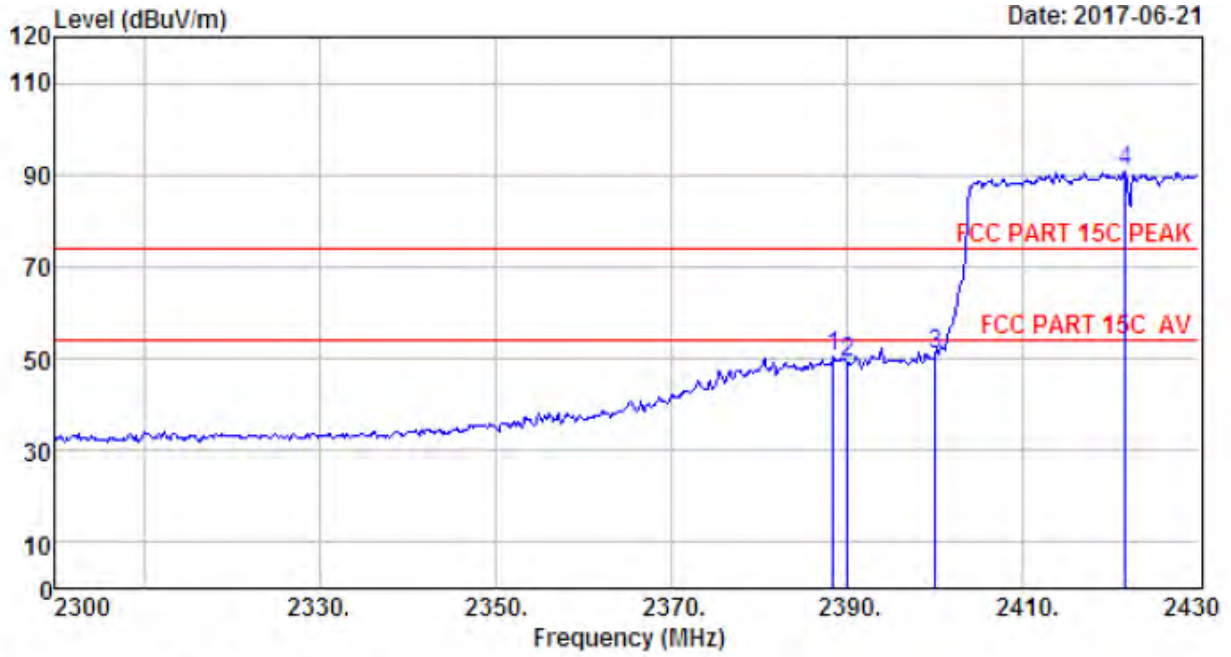


Site no. : 1# 966 Chamber                      Data no. : 601  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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)	Limite (dBuV/m)	Margin (dB)	Remark
1	2387.10	27.64	6.62	34.62	53.81	53.45	74.00	20.55	Peak
2	2390.00	27.64	6.62	34.62	53.36	53.00	74.00	21.00	Peak
3	2400.00	27.61	6.62	34.64	39.06	38.65	54.00	15.35	Average
4	2400.00	27.61	6.62	34.64	55.84	55.43	74.00	18.57	Peak
5	2429.35	27.60	6.66	34.74	92.86	92.38	74.00	-18.38	Peak

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

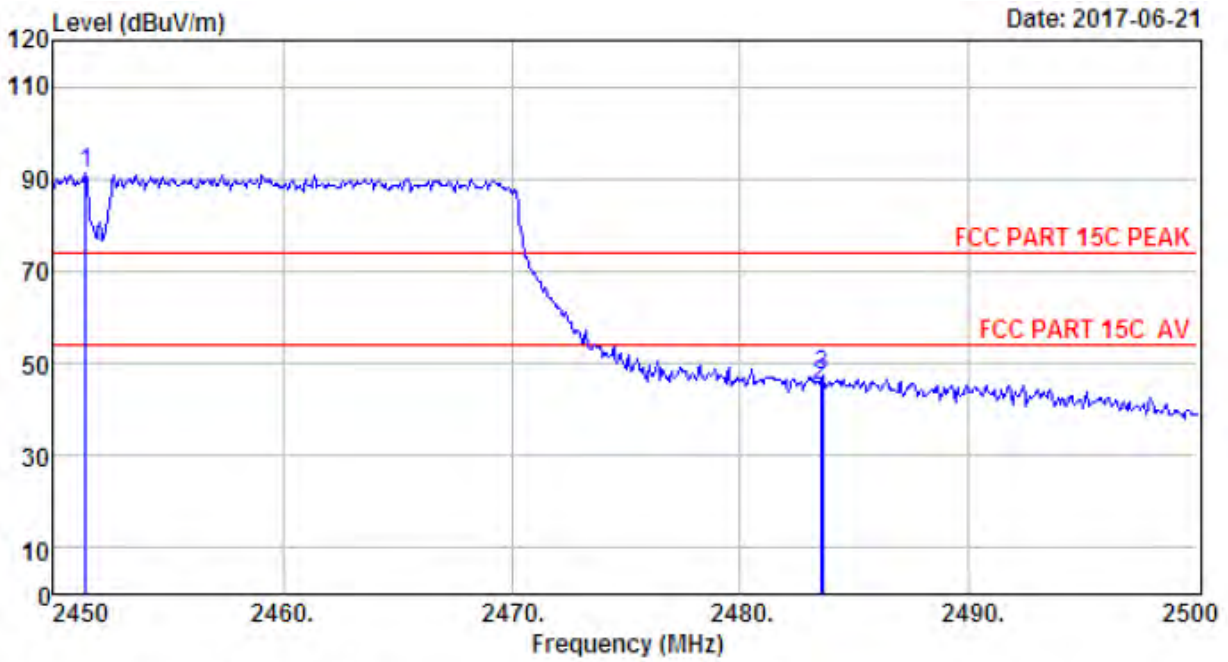




Site no. : 1# 966 Chamber Data no. : 602  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 Test Mode : IEEE 802.11n HT40 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	2388.40	27.64	6.62	34.62	50.74	50.38	74.00	23.62	Peak
2	2390.00	27.64	6.62	34.62	49.42	49.06	74.00	24.94	Peak
3	2400.00	27.61	6.62	34.64	51.44	51.03	74.00	22.97	Peak
4	2421.55	27.60	6.66	34.74	91.38	90.90	74.00	-16.90	Peak

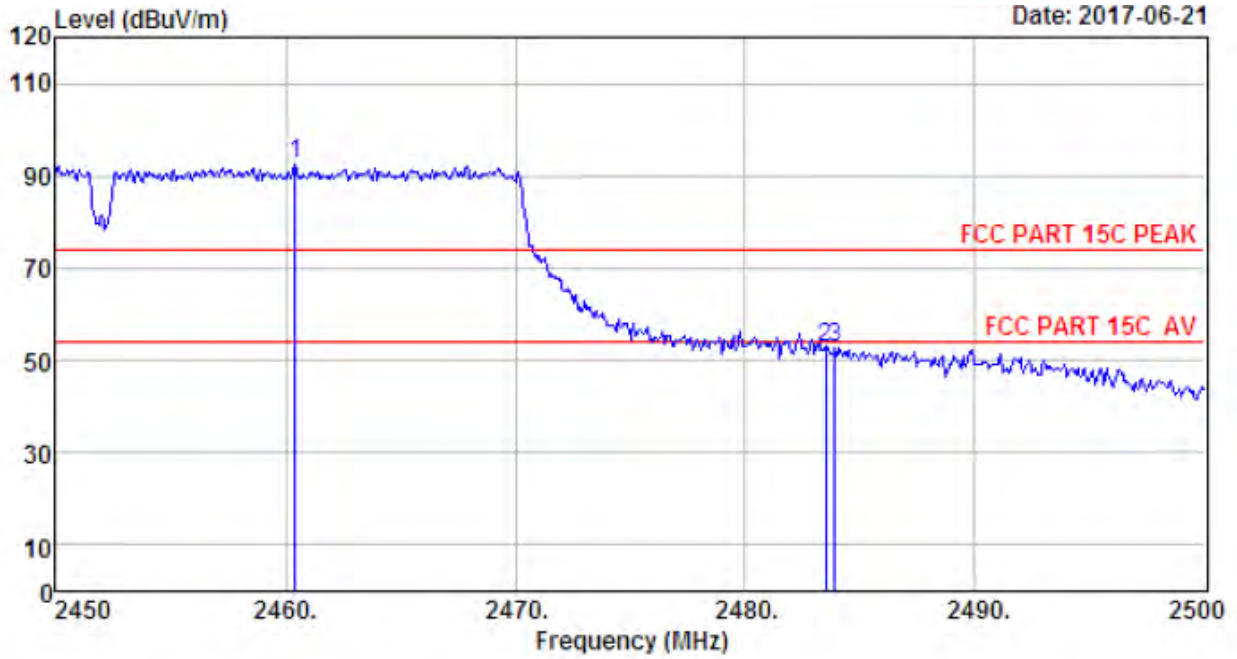
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 607  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUT : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	2451.40	27.59	6.67	34.85	91.85	91.26	74.00	-17.26	Peak
2	2483.50	27.58	6.71	35.11	45.87	45.05	74.00	28.95	Peak
3	2483.60	27.58	6.71	35.11	48.24	47.42	74.00	26.58	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. : 608  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:24.0';Humi:52%;Press:101.52kPa  
 Engineer : Viking  
 EUI : INTERNET RADIO PLAYER  
 Power : AC 120V/60Hz  
 M/N : DN-350UI  
 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	2460.40	27.58	6.69	34.98	93.07	92.36	74.00	-18.36	Peak
2	2483.50	27.58	6.71	35.11	53.69	52.87	74.00	21.13	Peak
3	2483.90	27.58	6.71	35.11	53.66	52.84	74.00	21.16	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.

## 6 6dB & 20dB Bandwidth Test

### 6.1 Limit

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

### 6.2 Test Procedure for 6dB

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

### 6.3 Test Procedure for 20dB

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

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

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

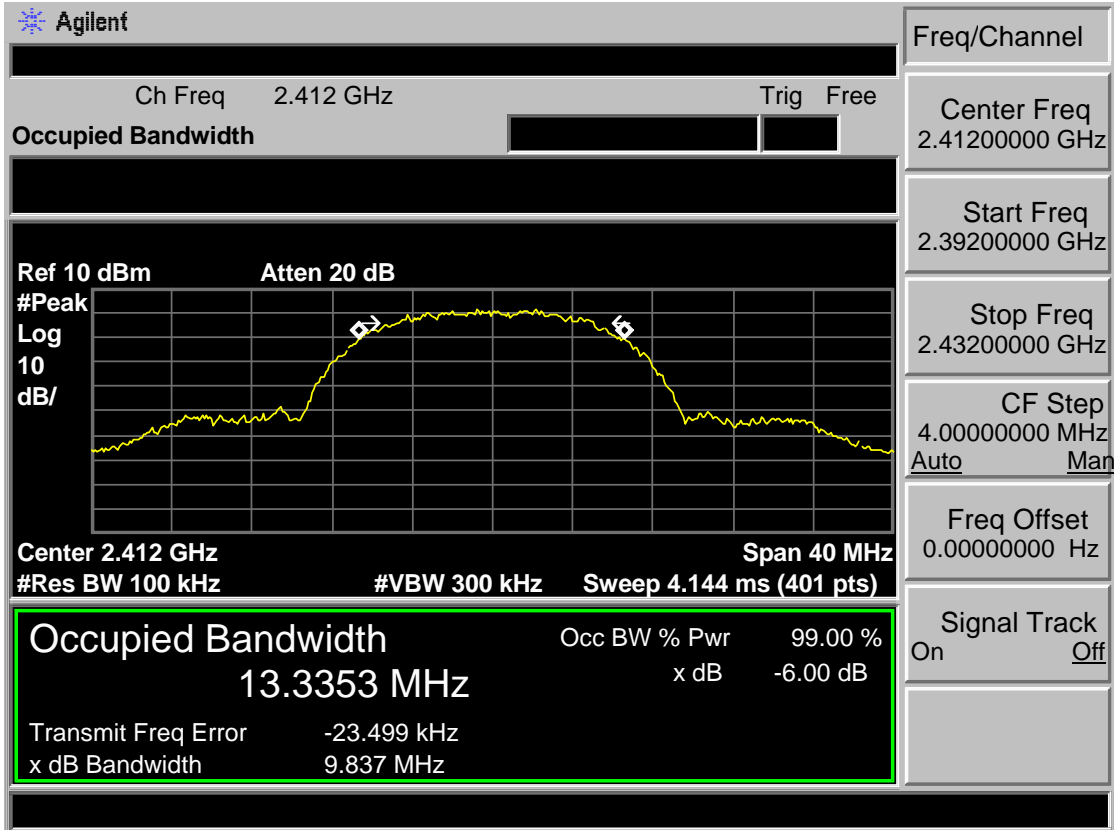
6.4 Test Result

EUT: INTERNET RADIO PLAYER					
M/N: DN-350UI					
Test date: 2017-06-28		Tested by: Viking		Test site: RF Site	
Test Mode	CH	6dB bandwidth (MHz)	20dB bandwidth (MHz)	Limit	
				6dB BW (KHz)	20dB BW
IEEE 802.11 b	CH1	9.837	15.600	>500	/
	CH6	9.902	15.601	>500	/
	CH11	9.809	15.597	>500	/
IEEE 802.11 g	CH1	16.569	19.124	>500	/
	CH6	16.614	19.130	>500	/
	CH11	16.607	19.152	>500	/
IEEE 802.11 n HT 20	CH1	17.867	20.039	>500	/
	CH6	17.853	19.872	>500	/
	CH11	17.845	20.088	>500	/
IEEE 802.11 n HT 40	CH1	36.597	40.585	>500	/
	CH4	36.614	40.850	>500	/
	CH7	36.641	40.927	>500	/
Conclusion: PASS					

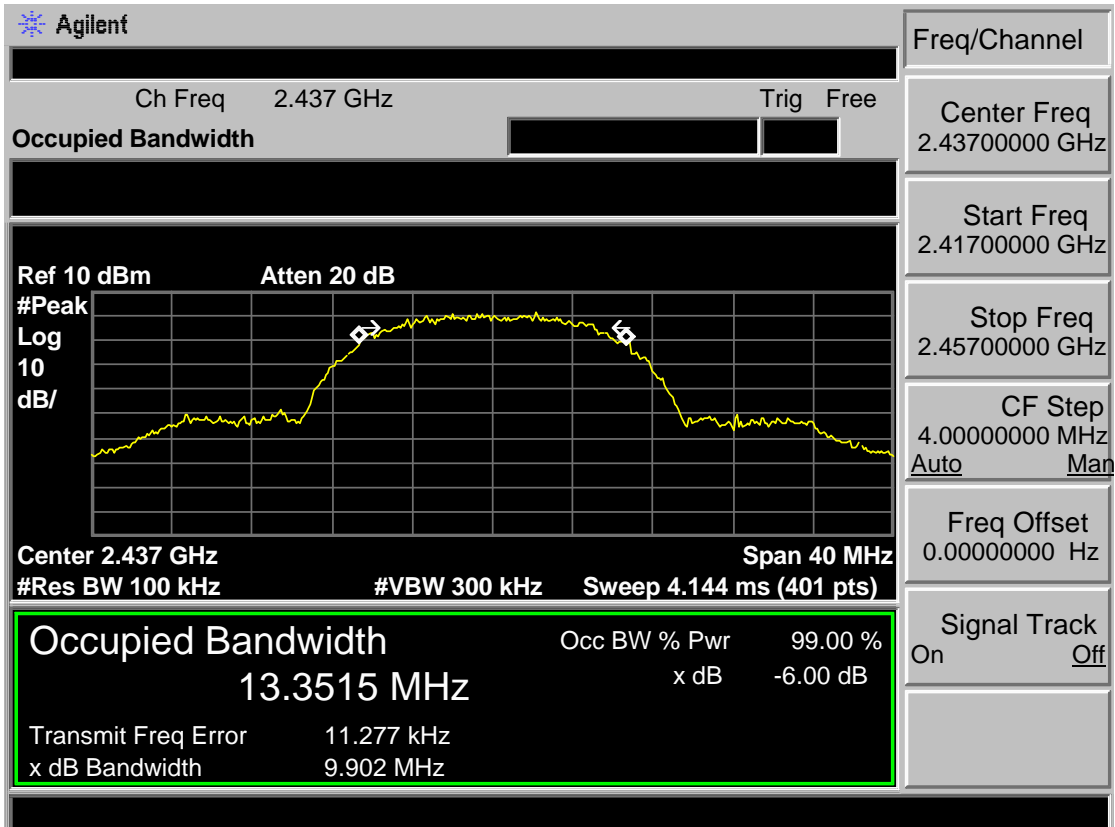
### 6.5 6dB Test Data

Antenna 0

Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz

Agilent

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 <u>Off</u>

Ch Freq	2.462 GHz	Trig	Free
<b>Occupied Bandwidth</b>			

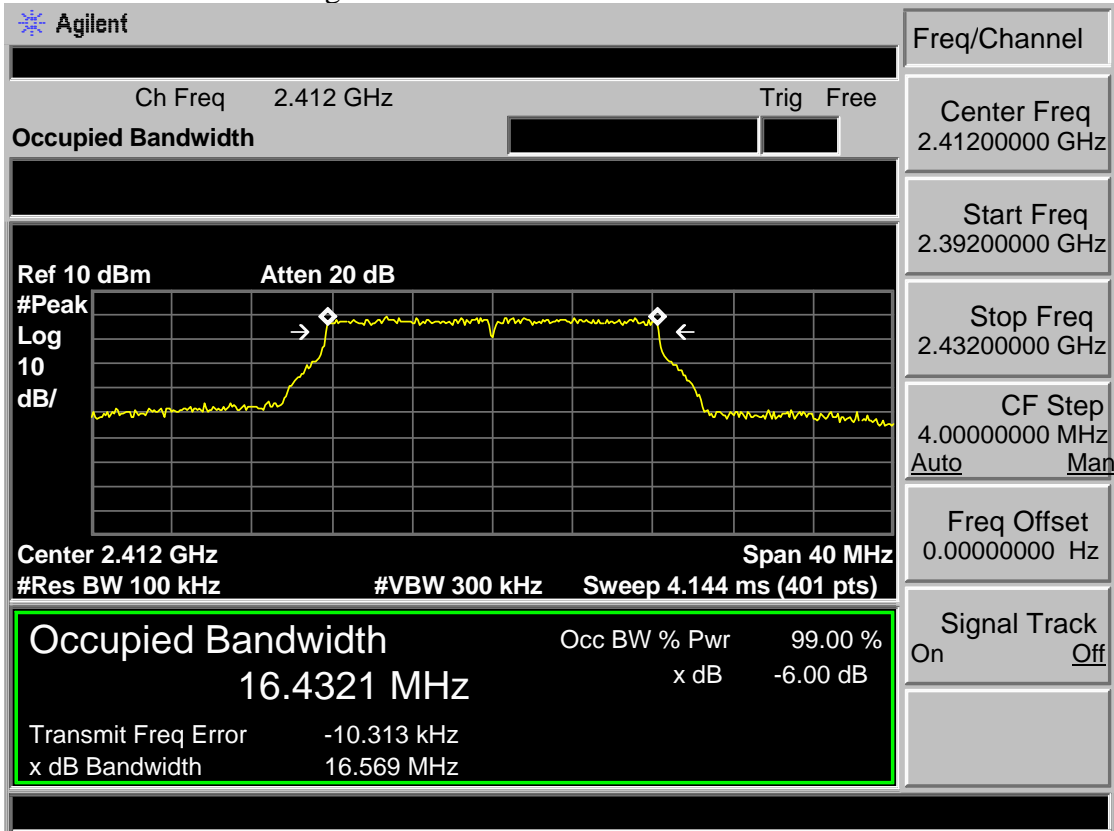
Ref 10 dBm      Atten 20 dB

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

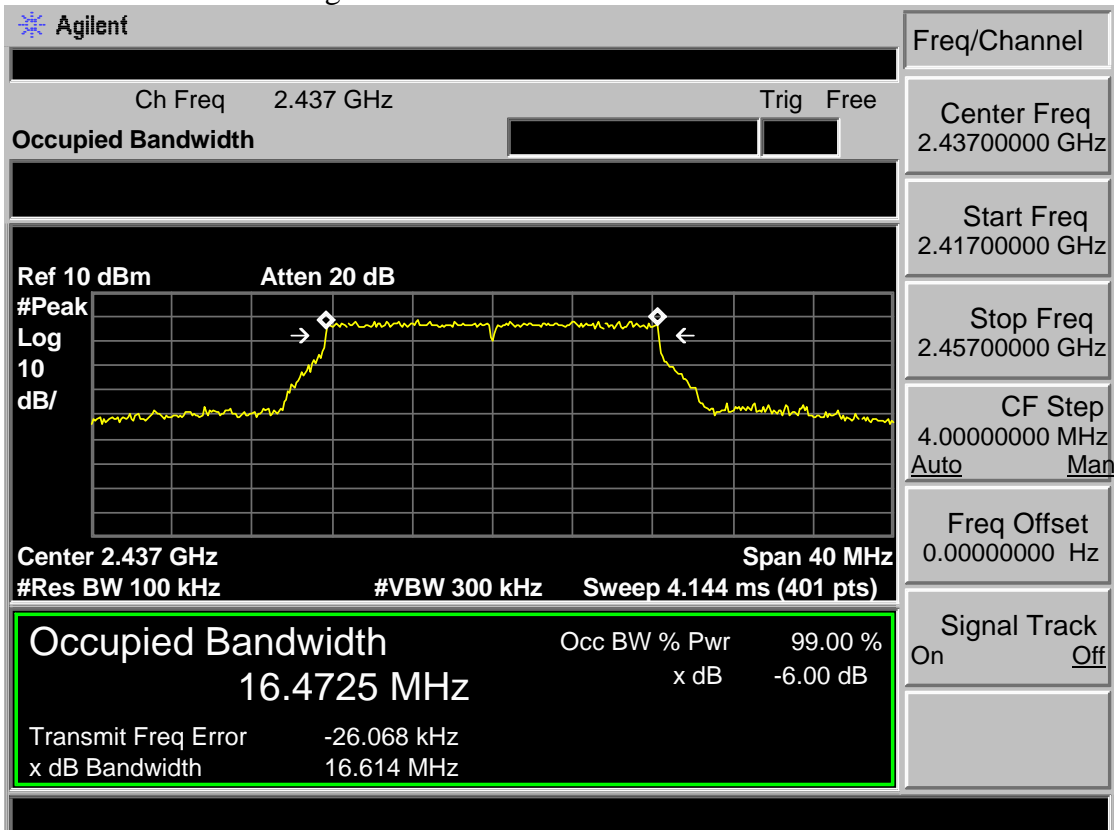
Occupied Bandwidth	Occ BW % Pwr	99.00 %
13.2884 MHz	x dB	-6.00 dB
Transmit Freq Error	-13.515 kHz	
x dB Bandwidth	9.809 MHz	



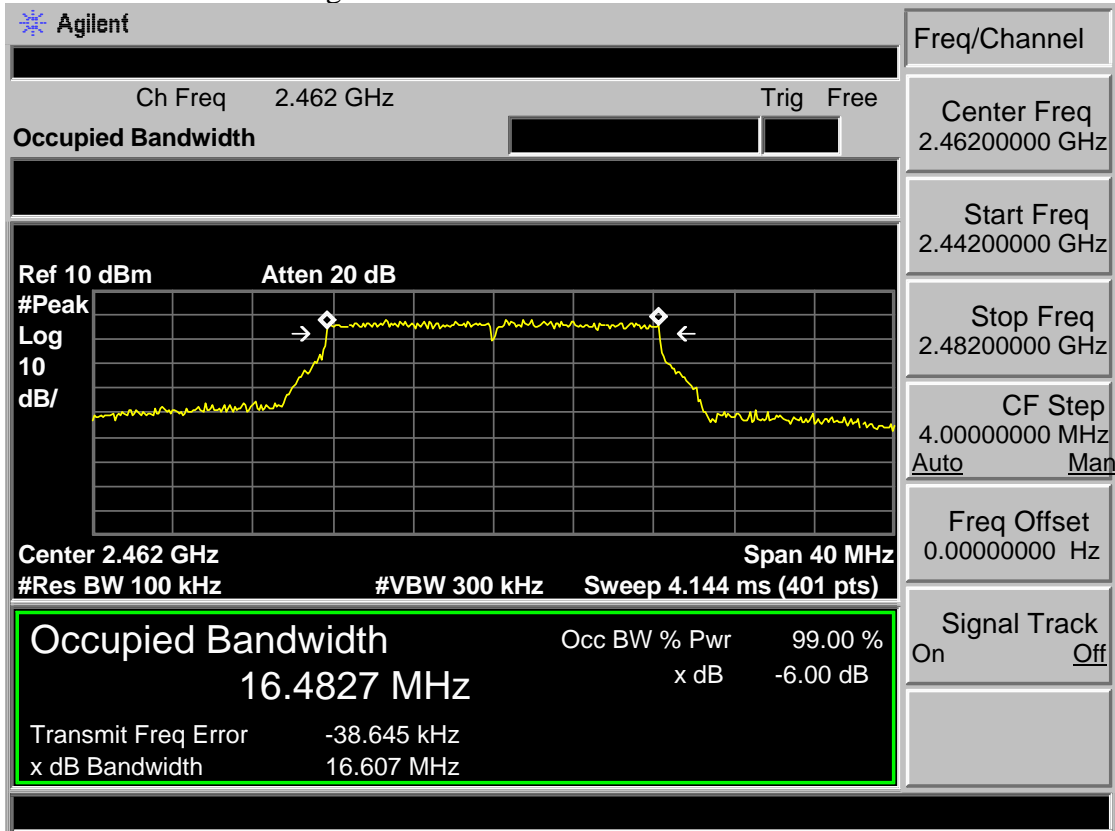
Test Mode: IEEE 802.11g 2412MHz



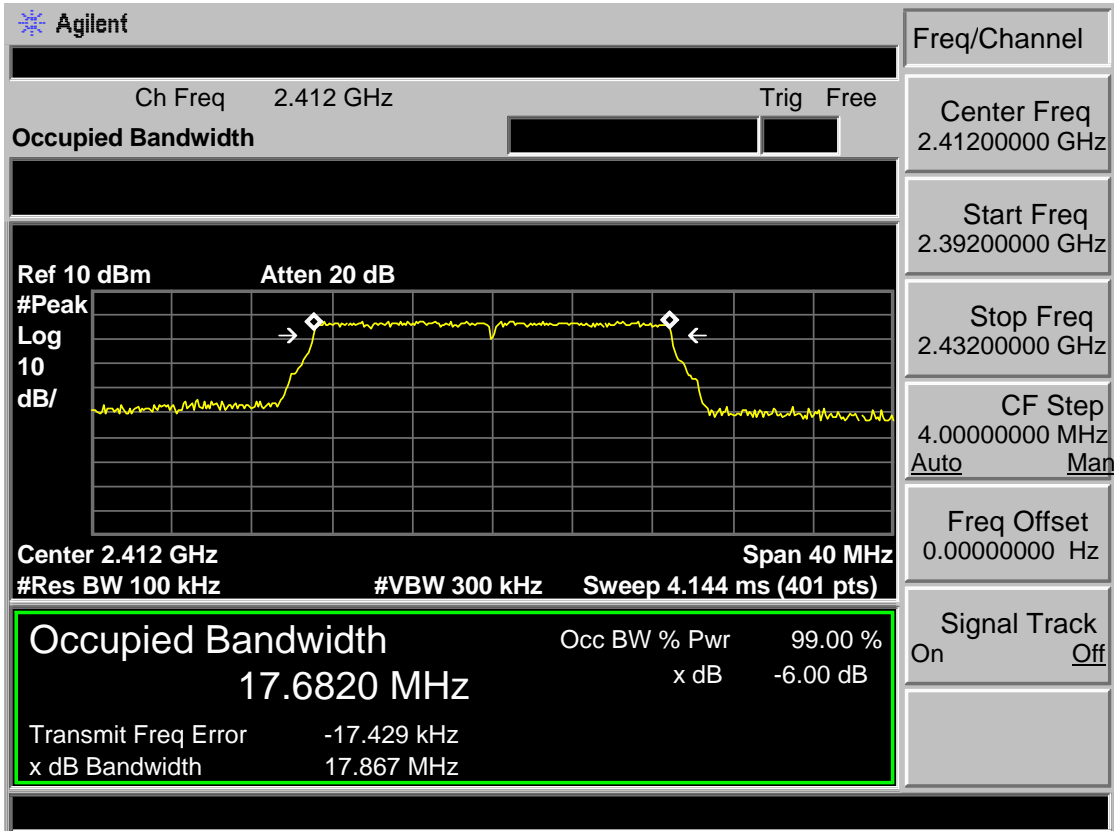
Test Mode: IEEE 802.11g 2437MHz



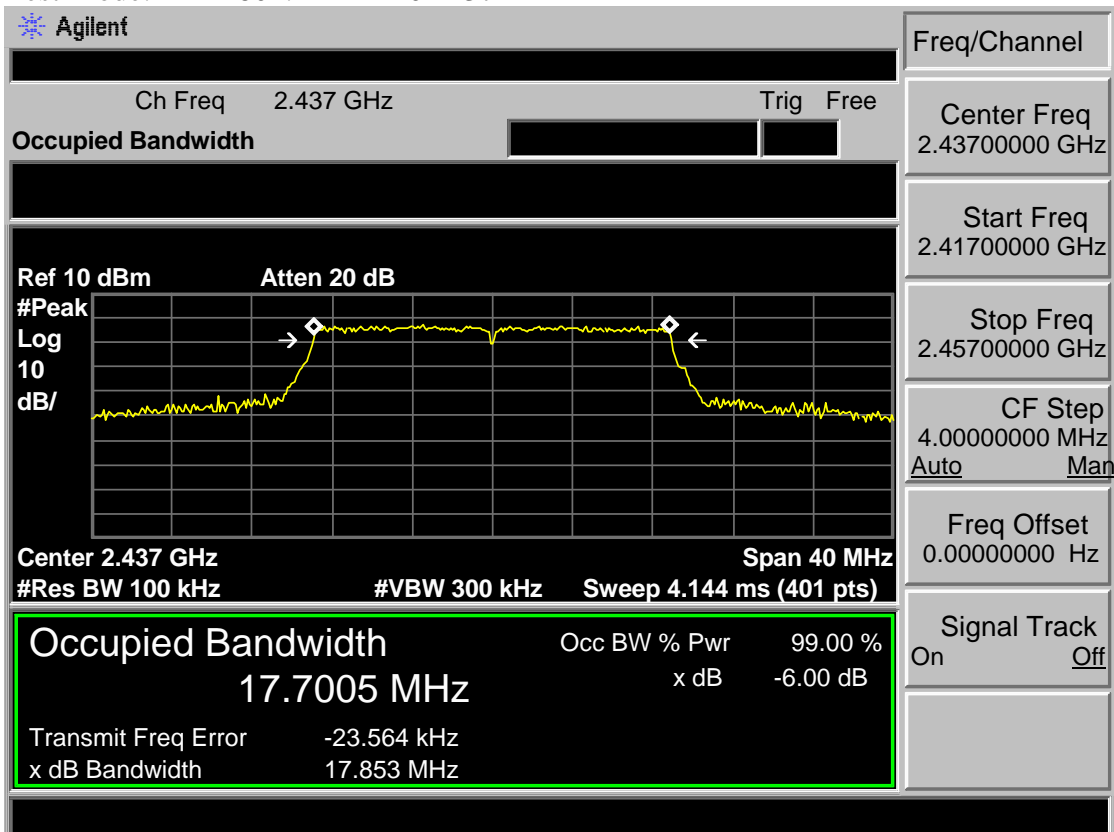
Test Mode: IEEE 802.11g 2462MHz



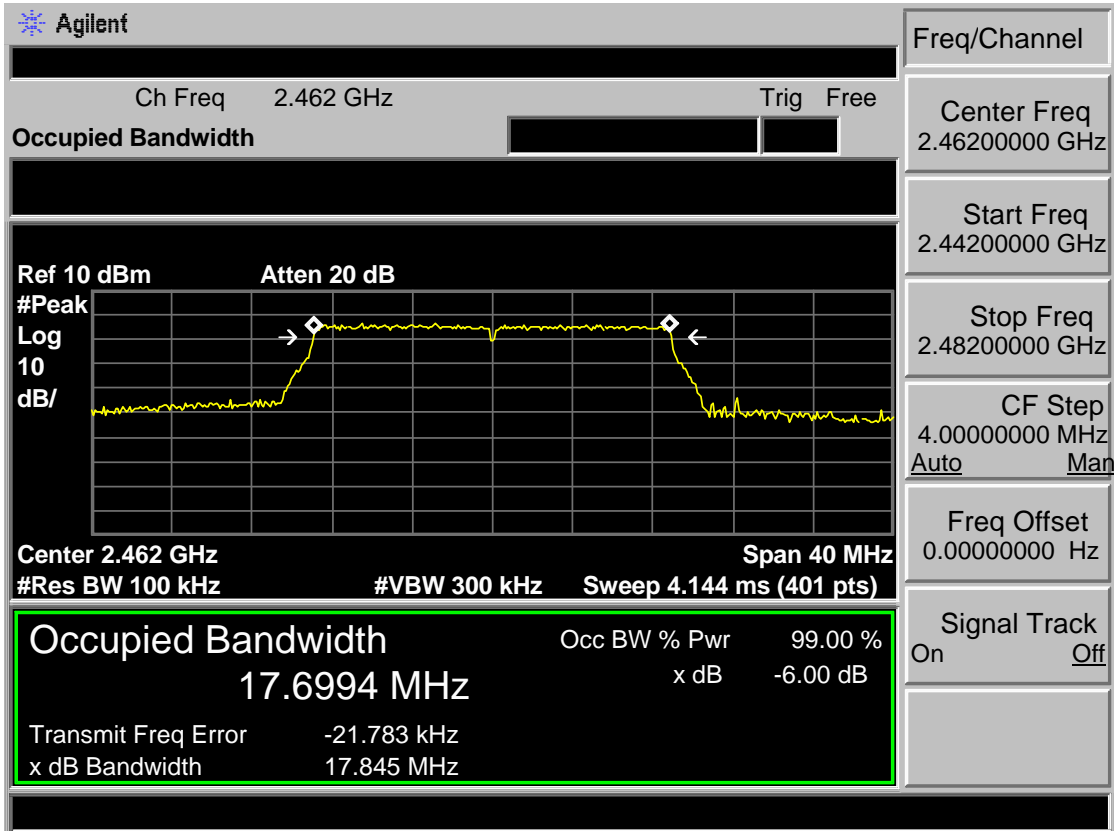
Test Mode: IEEE 802.11n HT20 2412MHz



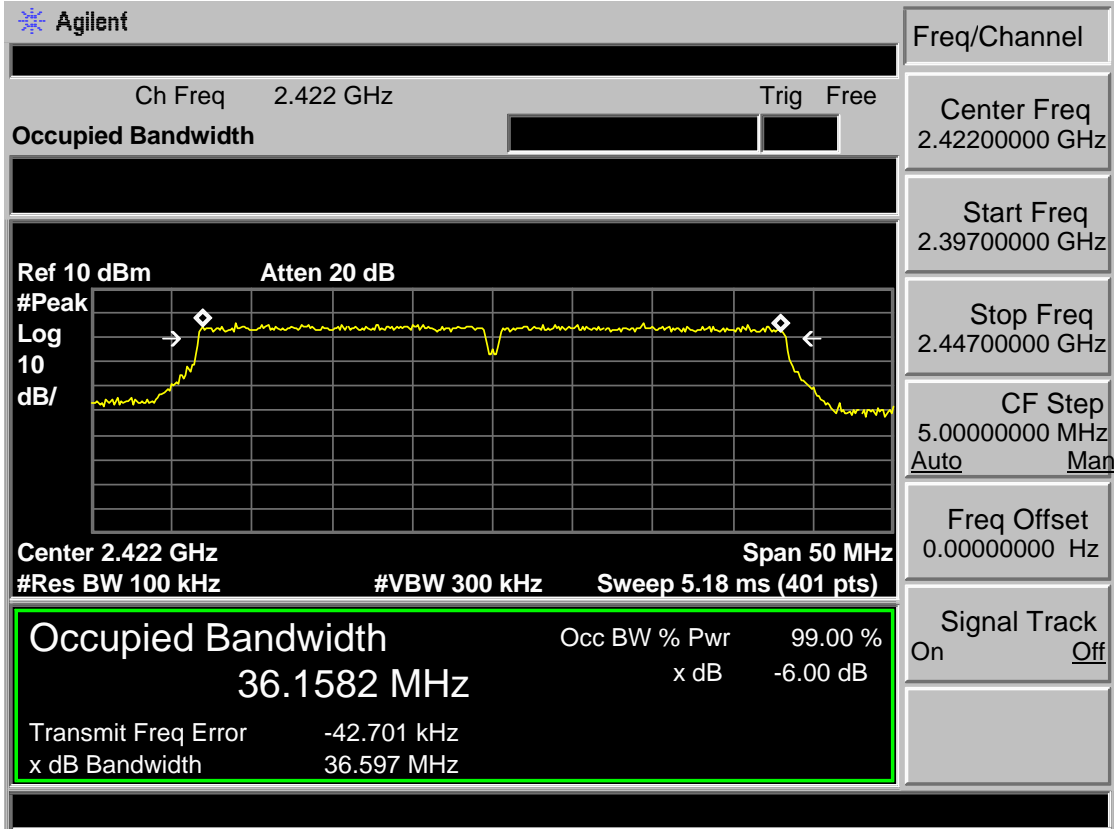
Test Mode: IEEE 802.11n HT20 2437MHz



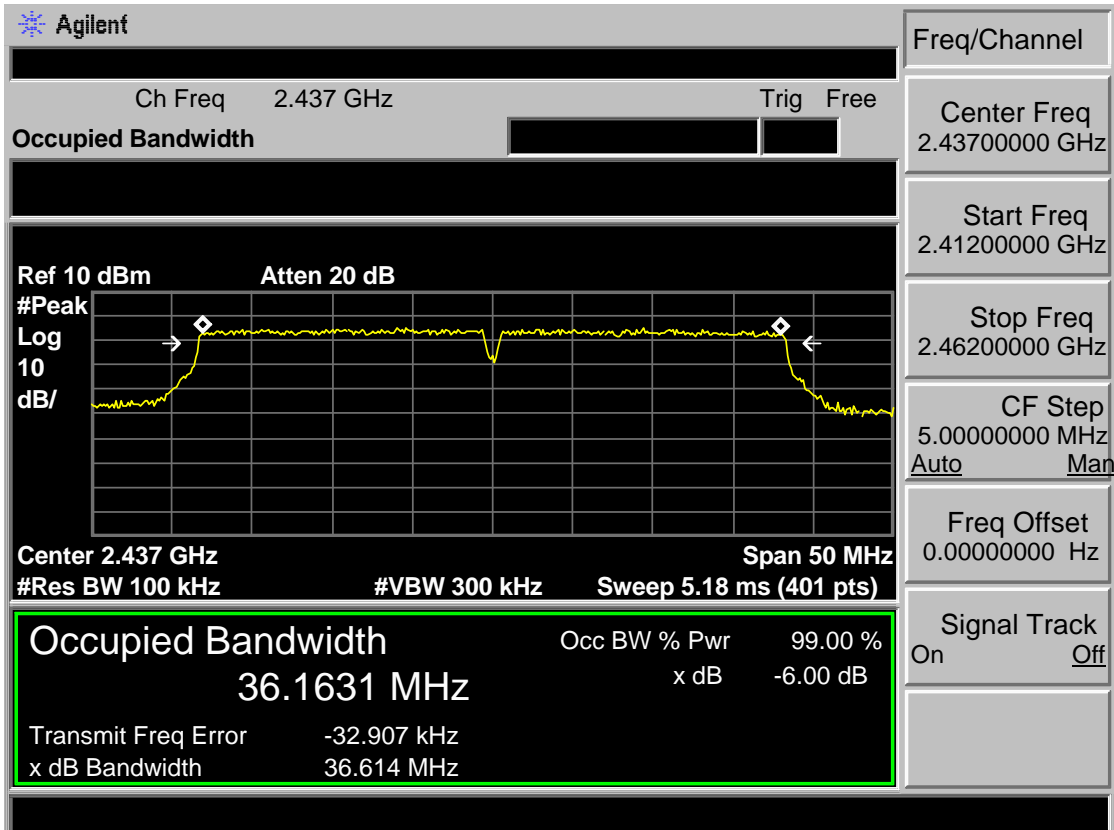
Test Mode: IEEE 802.11n HT20 2462MHz



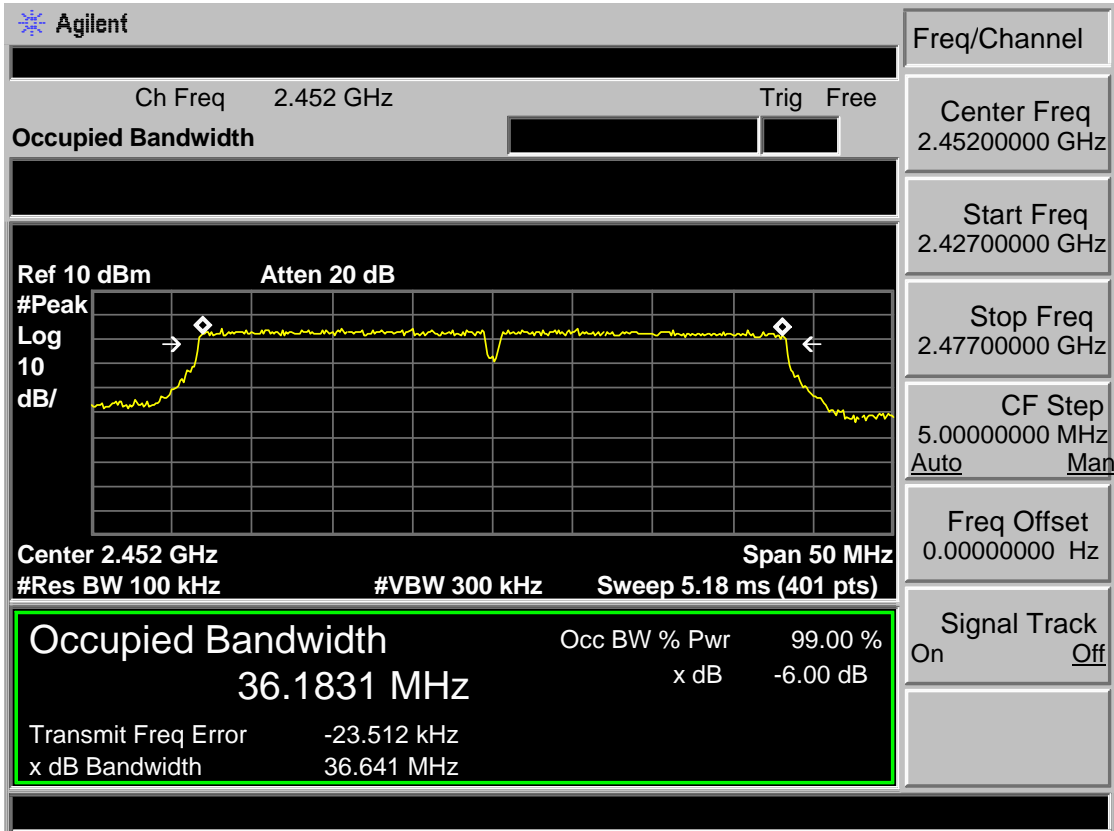
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



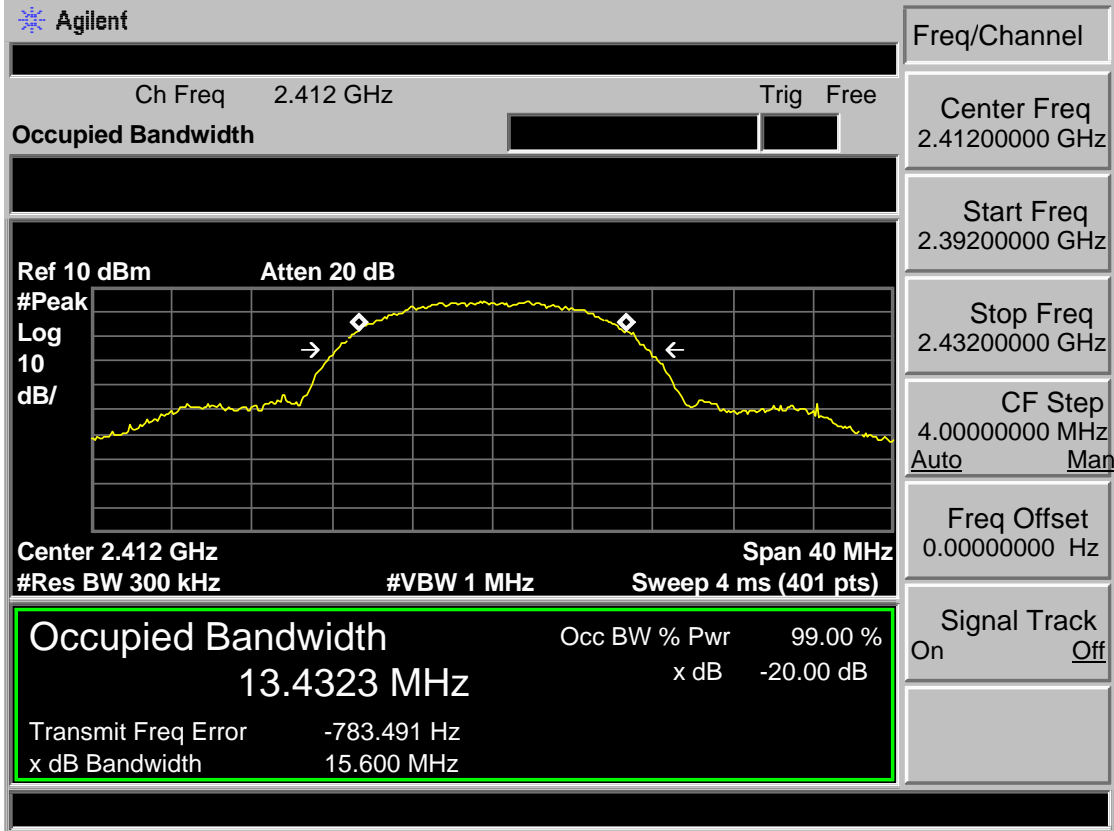
Test Mode: IEEE 802.11n HT40 2452MHz



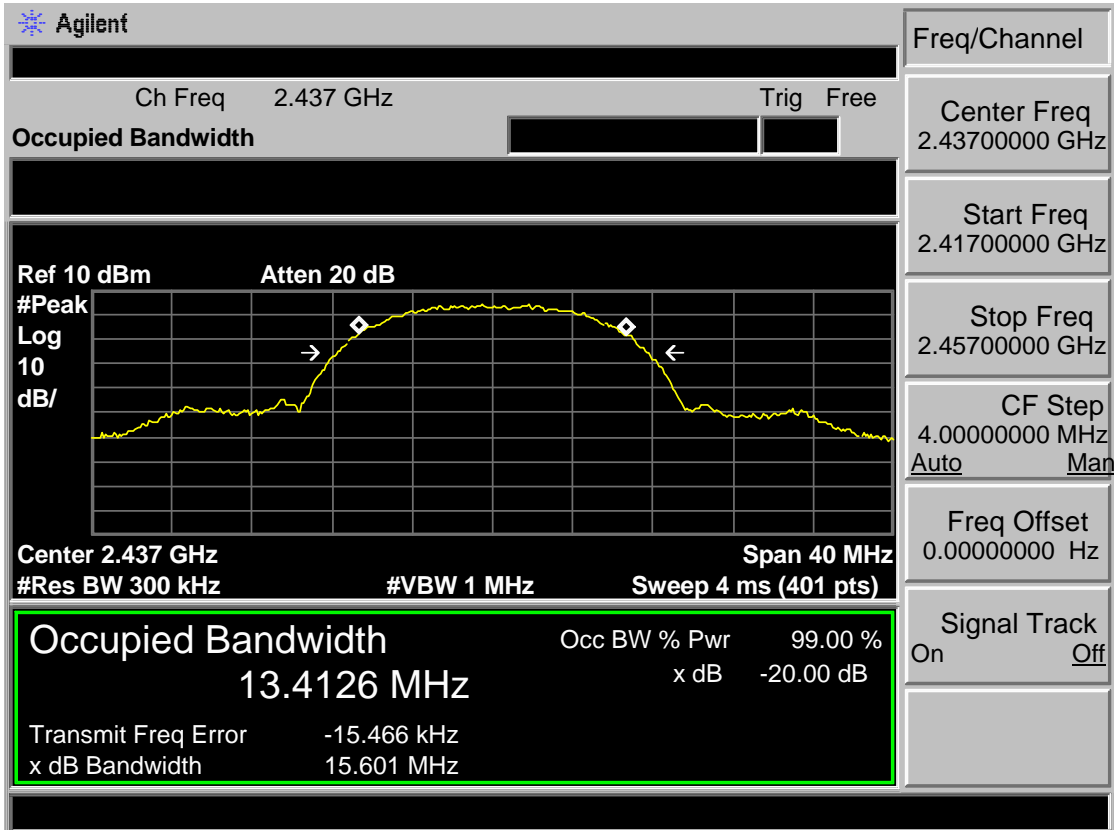
### 6.6 20dB Test Data

Antenna 0

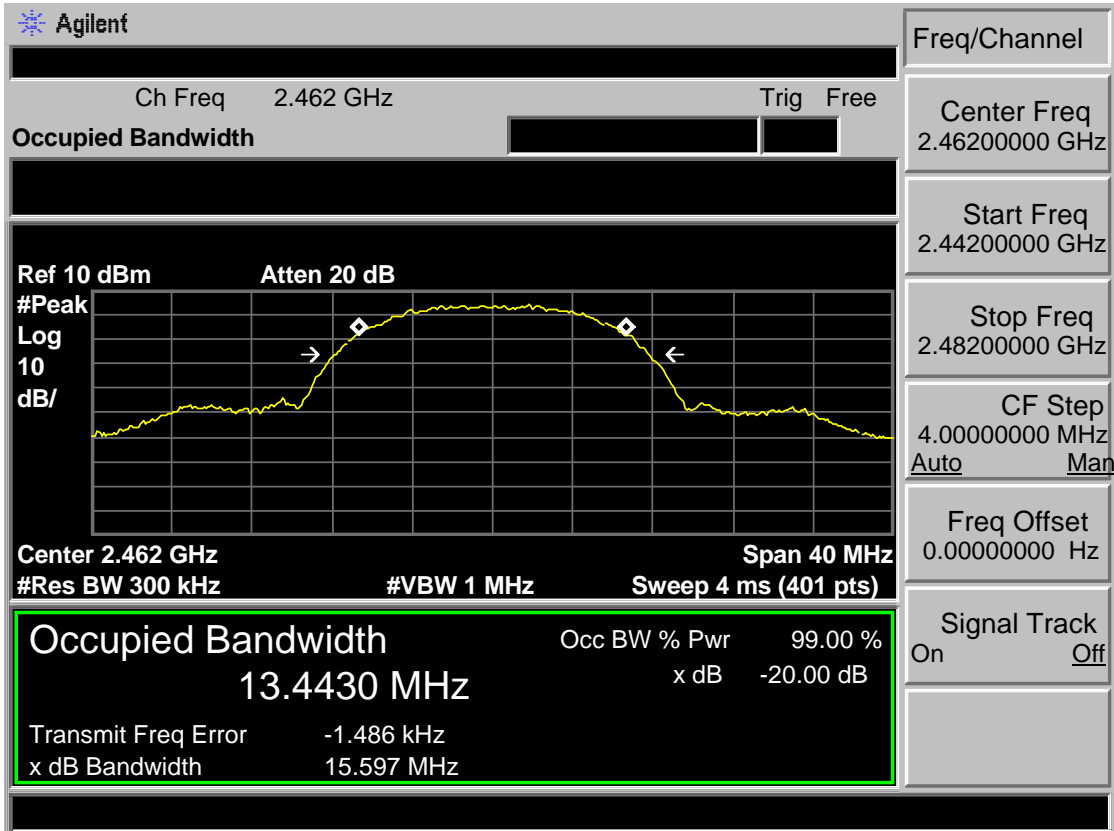
Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz

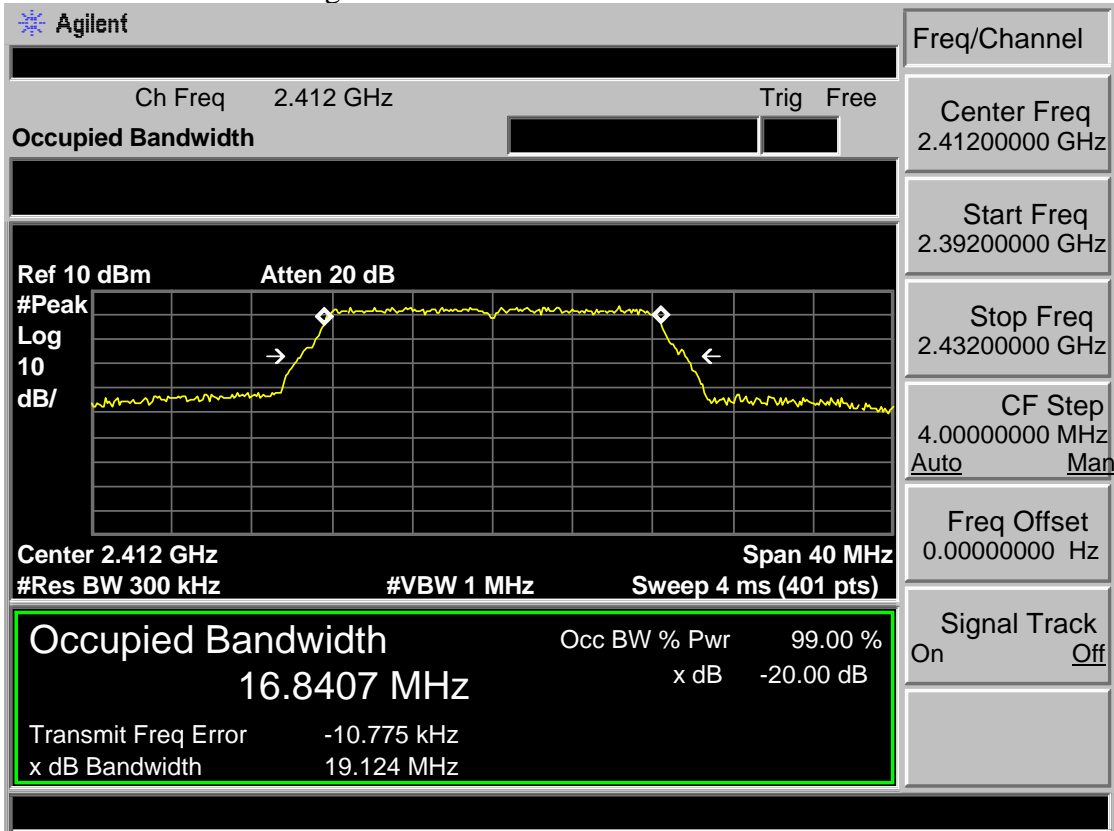


Test Mode: IEEE 802.11b 2462MHz

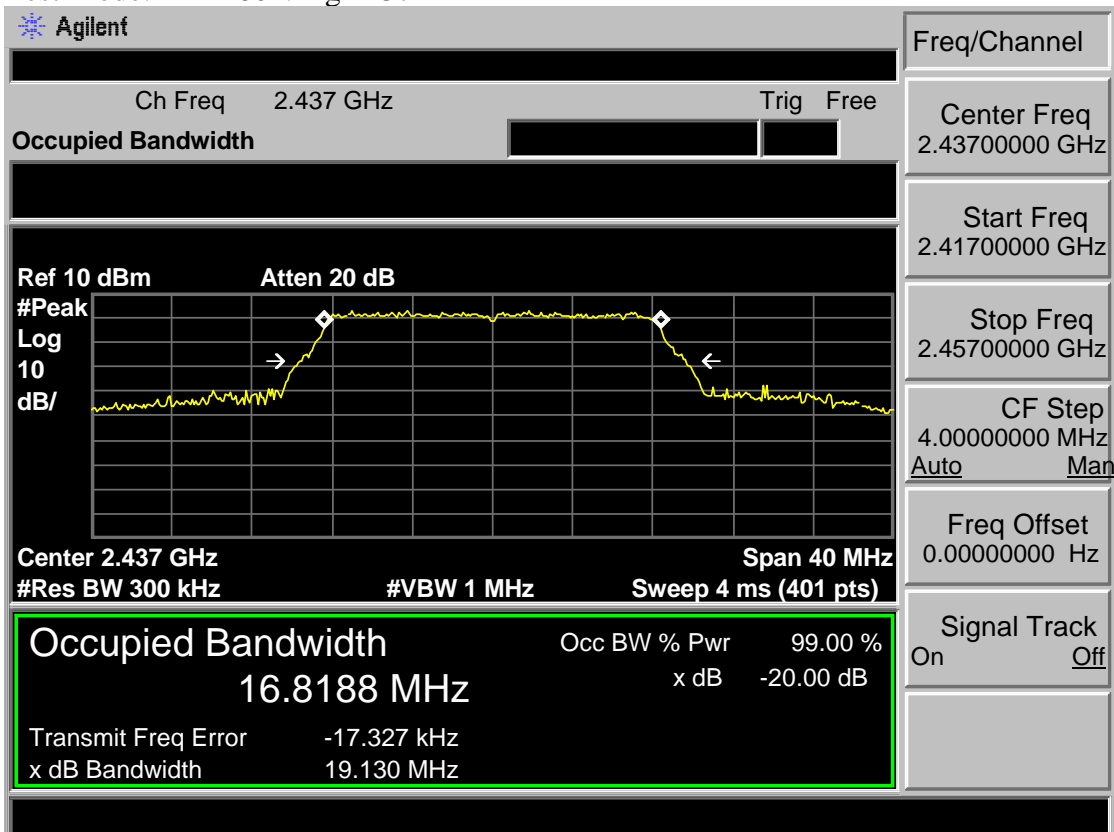




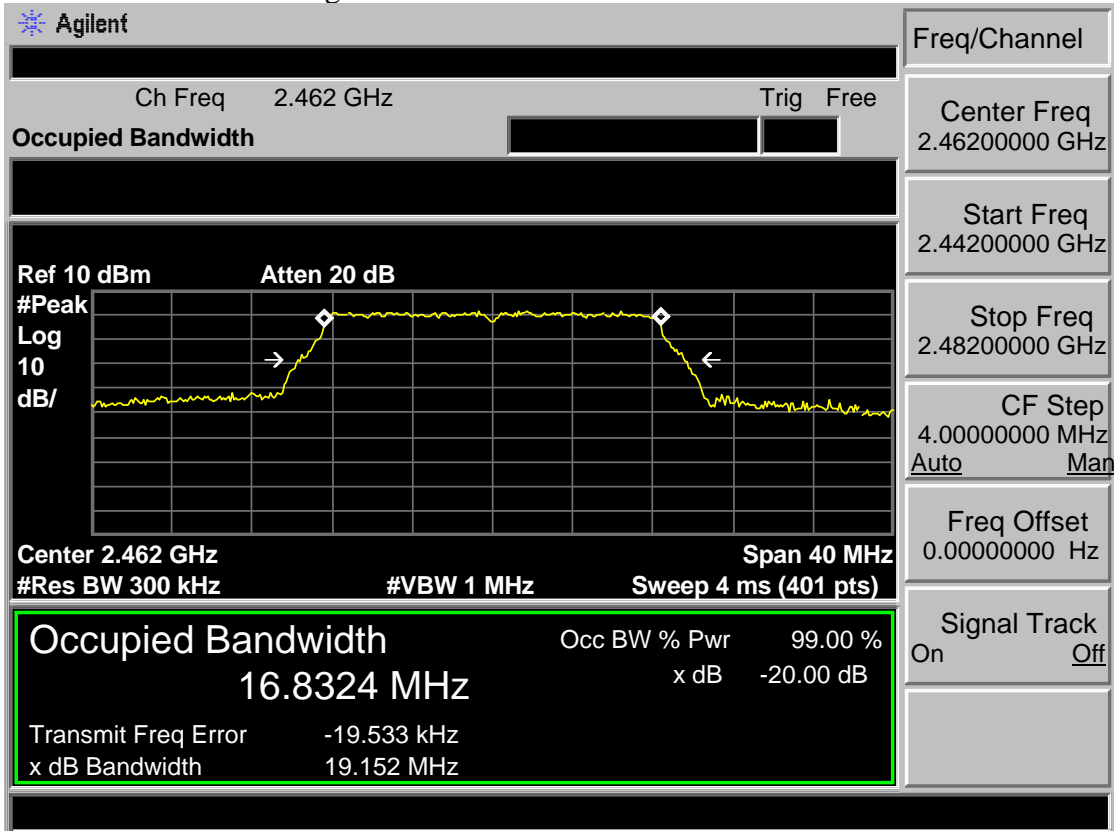
Test Mode: IEEE 802.11g 2412MHz



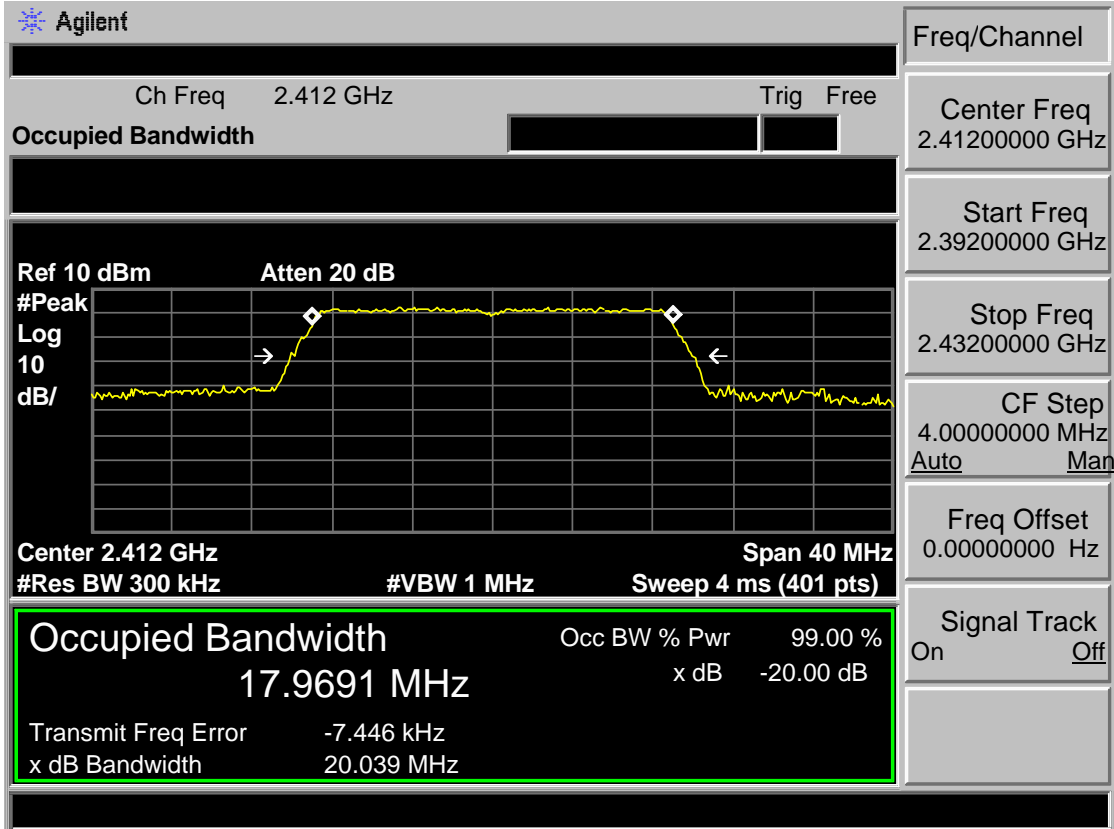
Test Mode: IEEE 802.11g 2437MHz



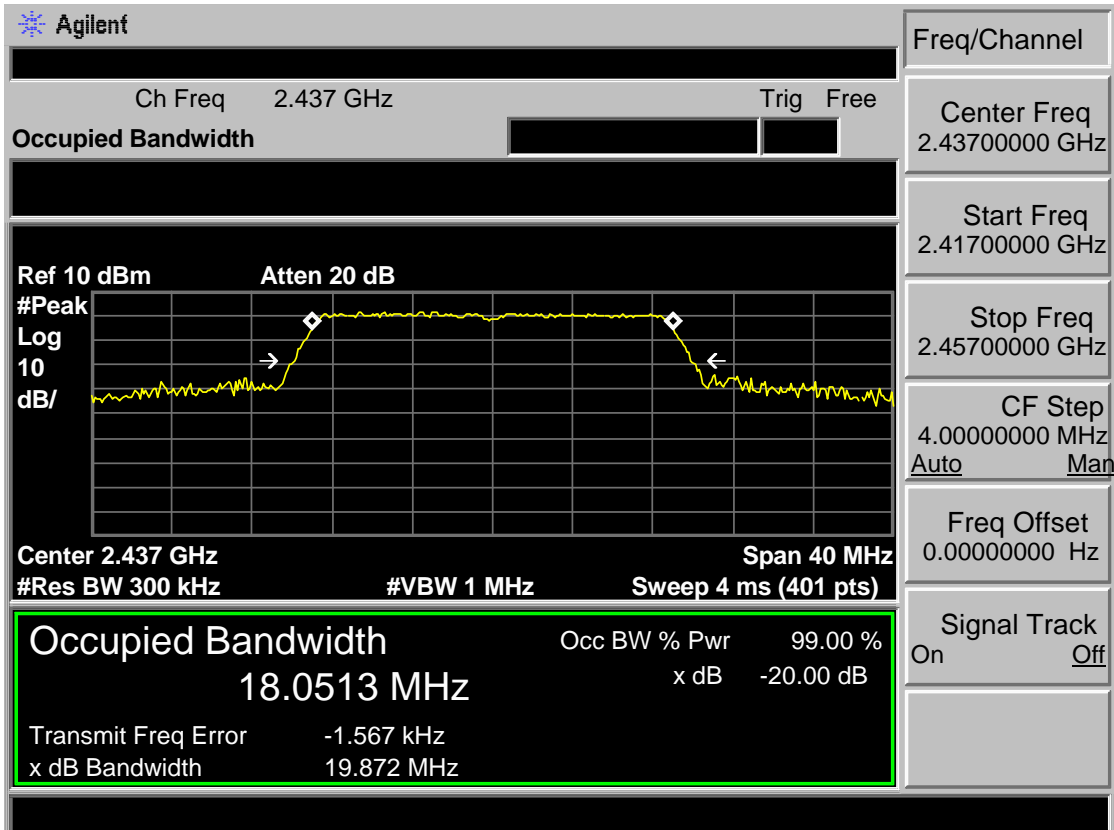
Test Mode: IEEE 802.11g 2462MHz



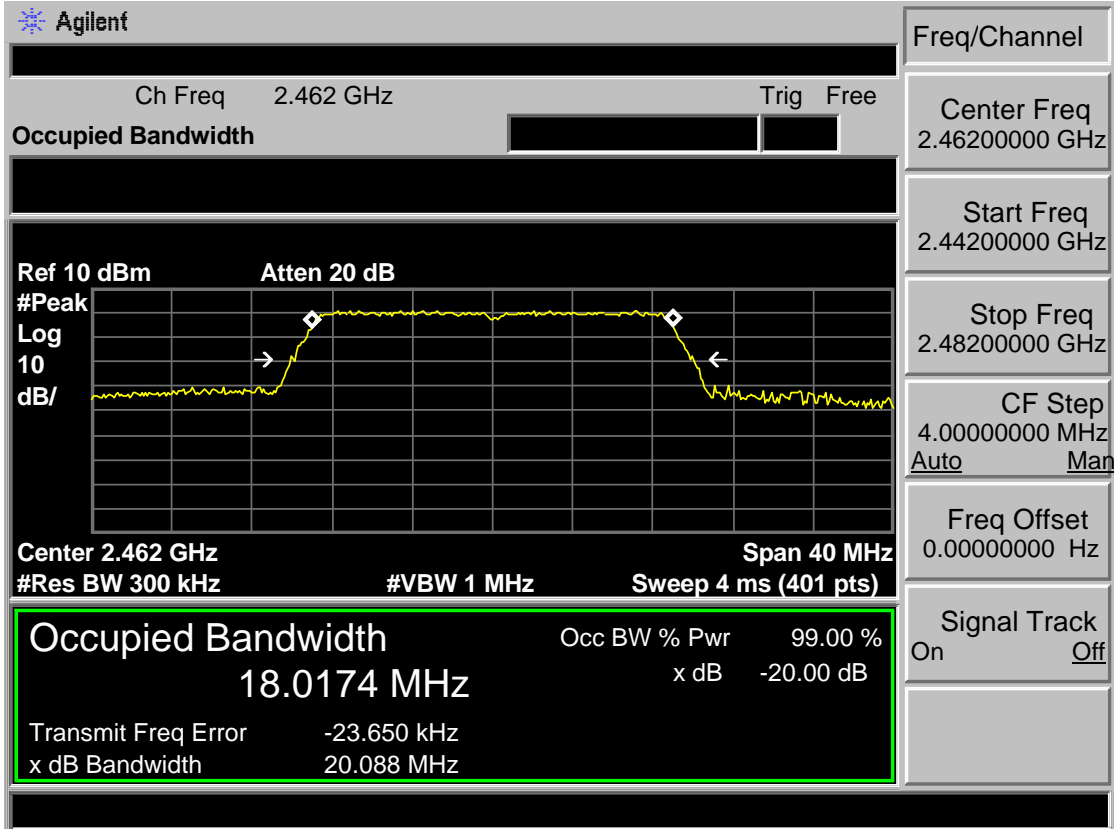
Test Mode: IEEE 802.11n HT20 2412MHz



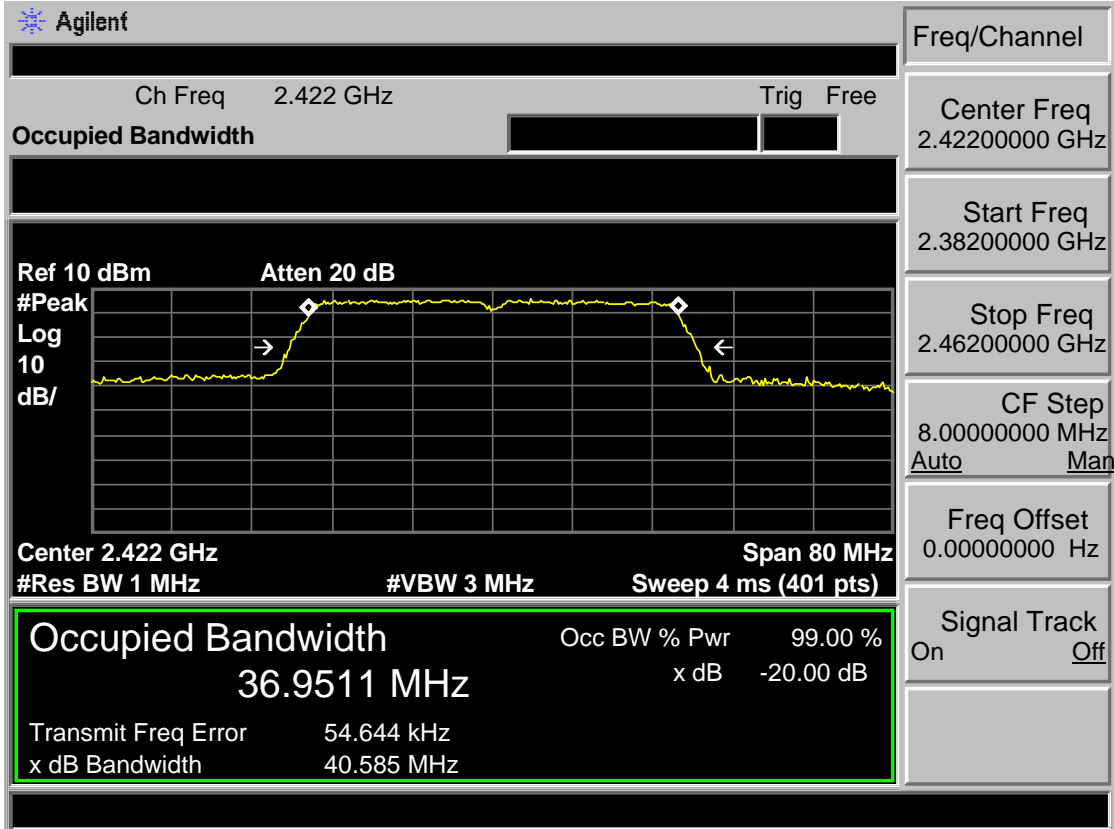
Test Mode: IEEE 802.11n HT20 2437MHz



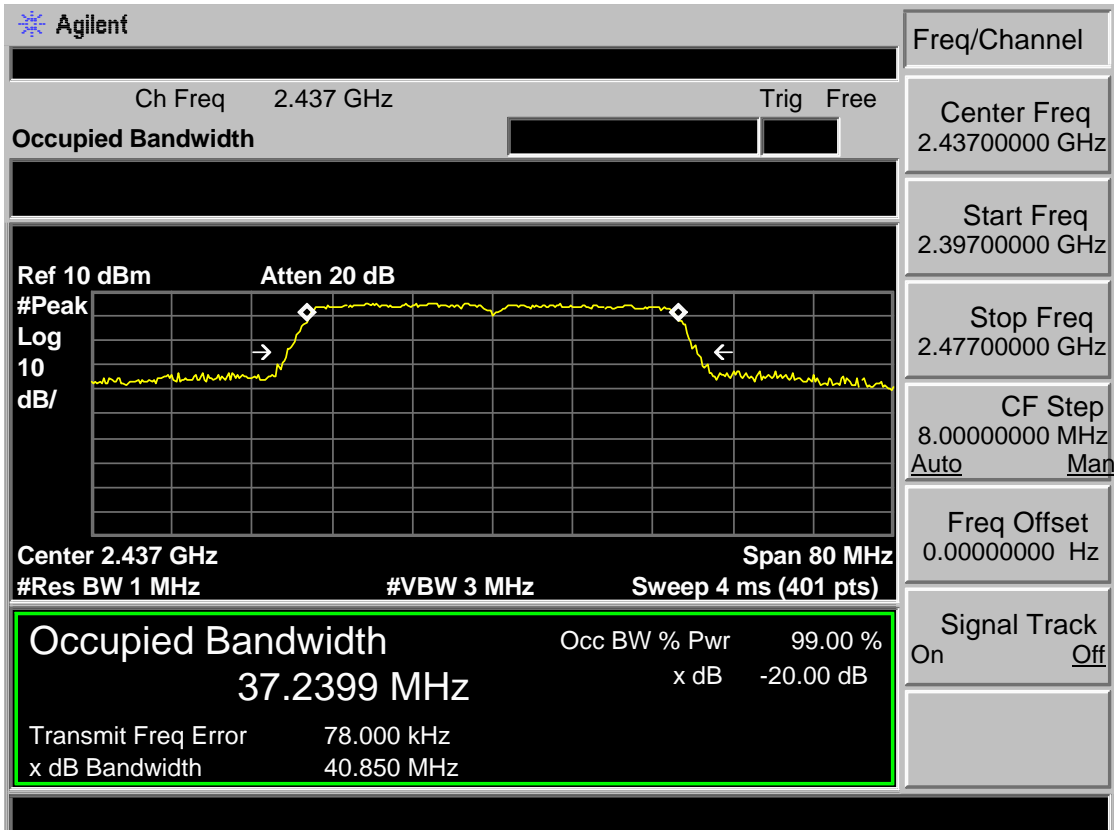
Test Mode: IEEE 802.11n HT20 2462MHz



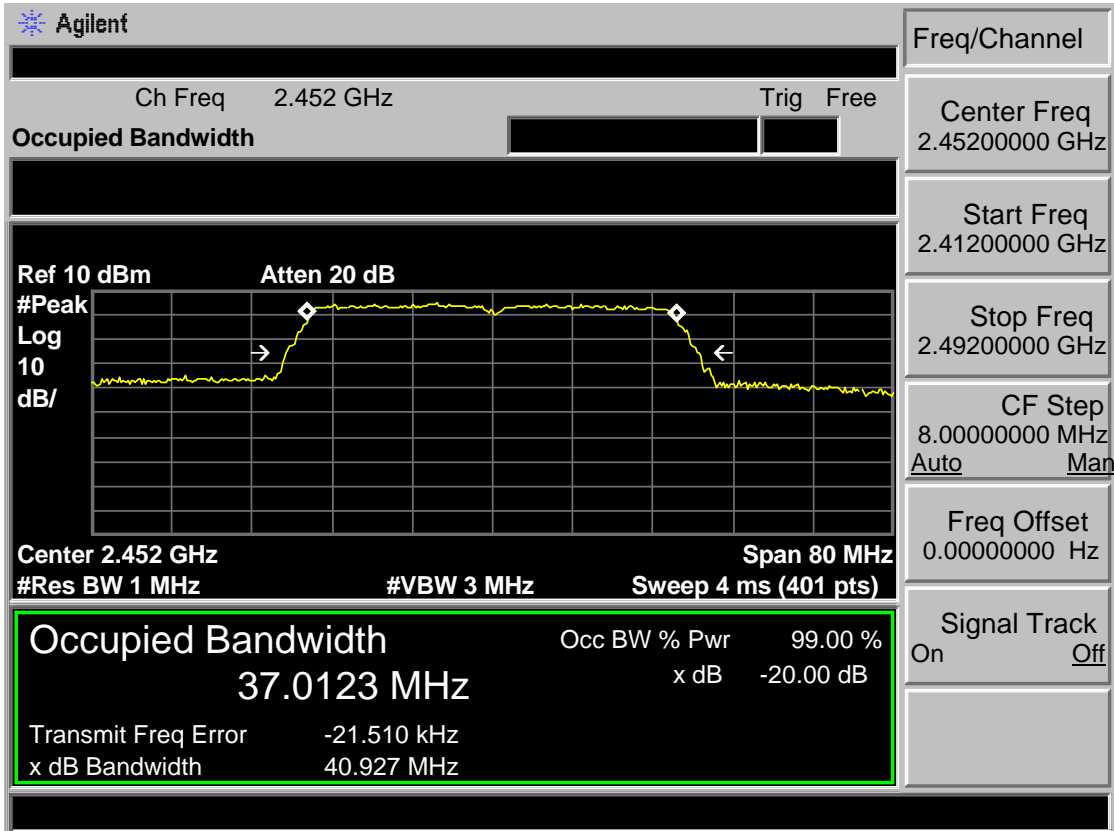
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz



## 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

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
  - (1)Set 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.

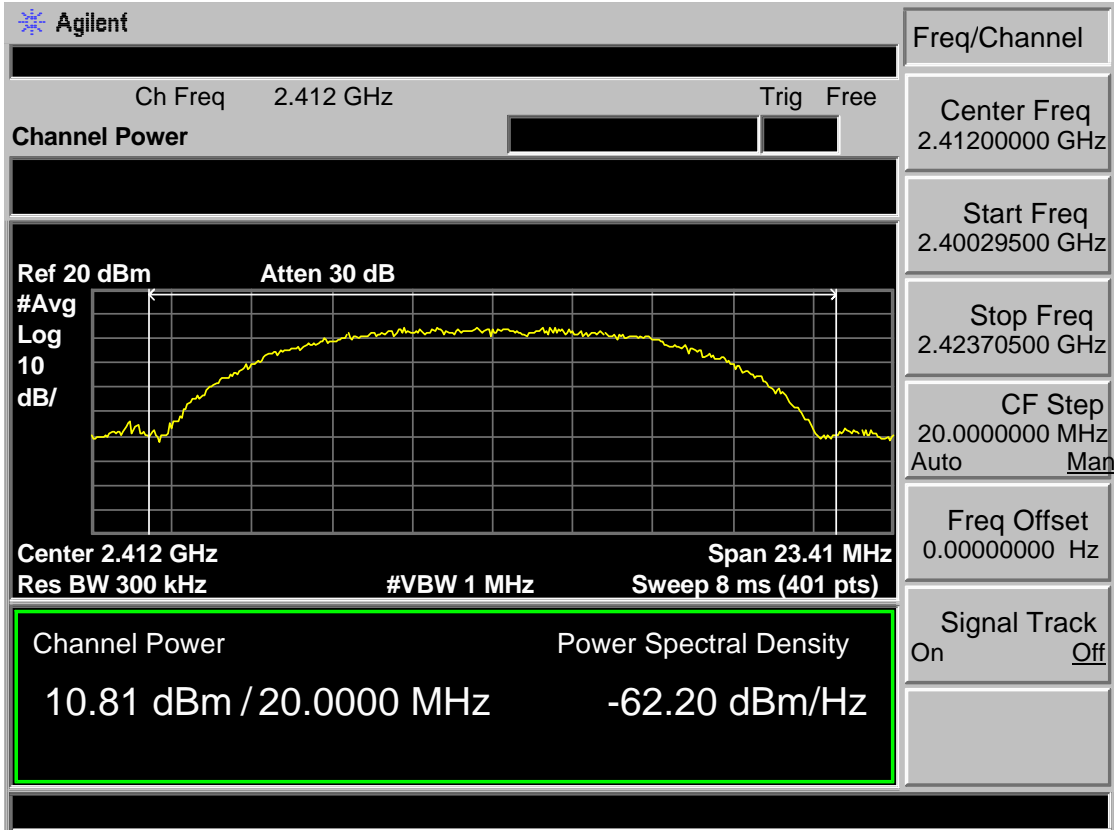
7.3 Test Result

<b>EUT: INTERNET RADIO PLAYER</b>			
<b>M/N: DN-350UI</b>			
<b>Test date: 2017-06-28</b>		<b>Test site: RF Site</b>	
<b>Tested by: Viking</b>			
<b>Pass</b>			
<b>Test Mode</b>	<b>CH</b>	<b>Conducted Power (dBm)</b>	<b>Limit (dBm)</b>
IEEE 802.11 b	CH1	10.81	30
	CH6	10.43	30
	CH11	10.00	30
IEEE 802.11 g	CH1	10.94	30
	CH6	10.65	30
	CH11	9.32	30
IEEE 802.11 n HT 20	CH1	11.01	30
	CH6	10.97	30
	CH11	9.49	30
IEEE 802.11 n HT 40	CH1	9.98	30
	CH4	9.51	30
	CH7	8.64	30
<b>Conclusion : PASS</b>			

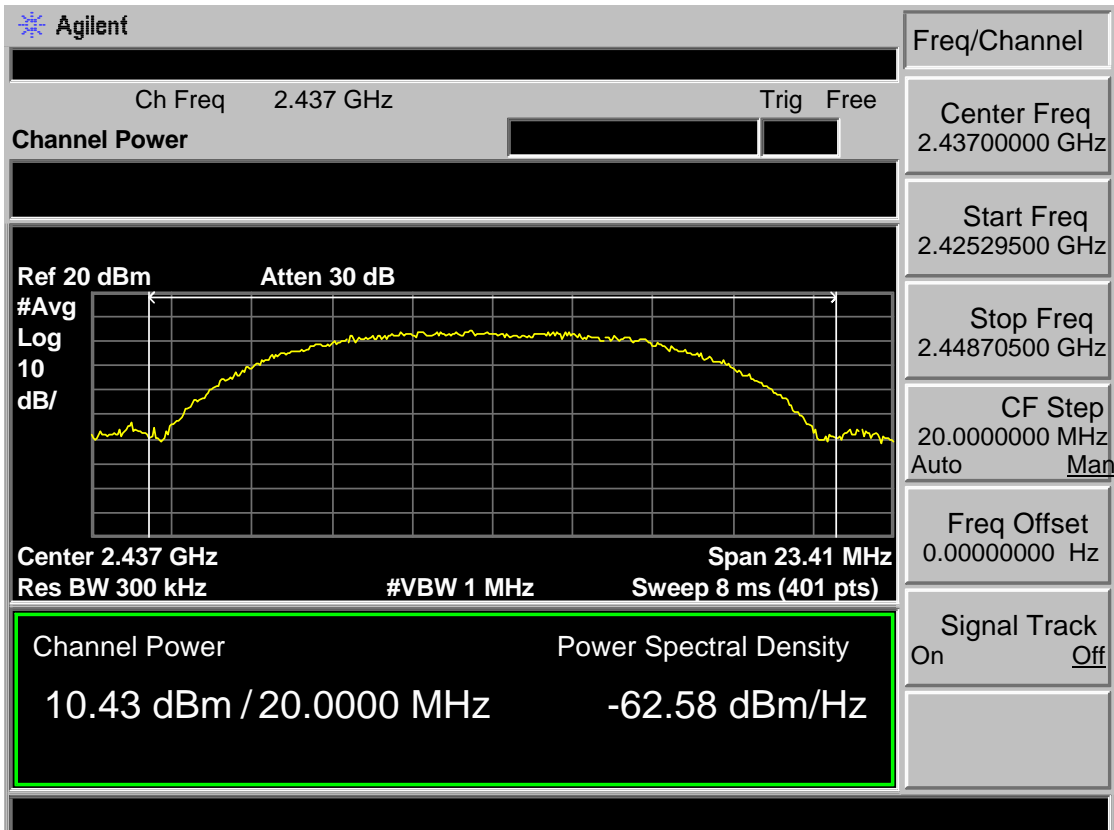


7.4 Test Data

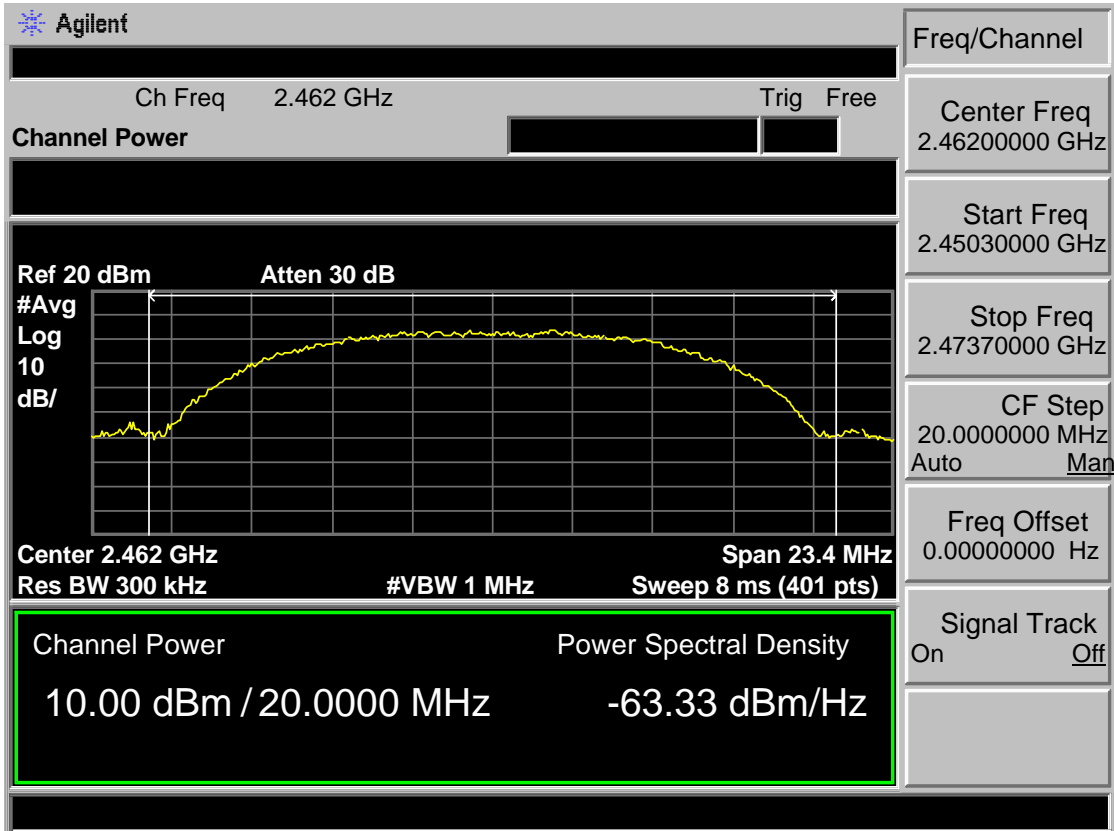
Test Mode: IEEE 802.11b 2412MHz



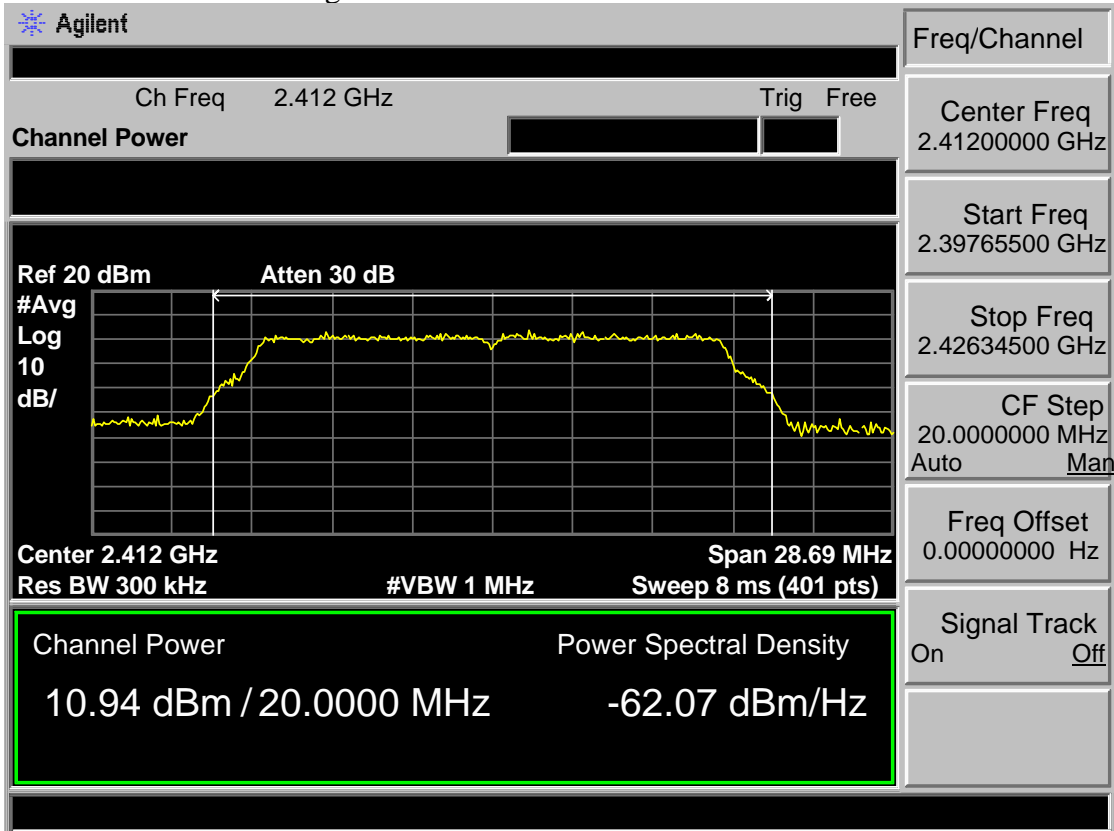
Test Mode: IEEE 802.11b 2437MHz



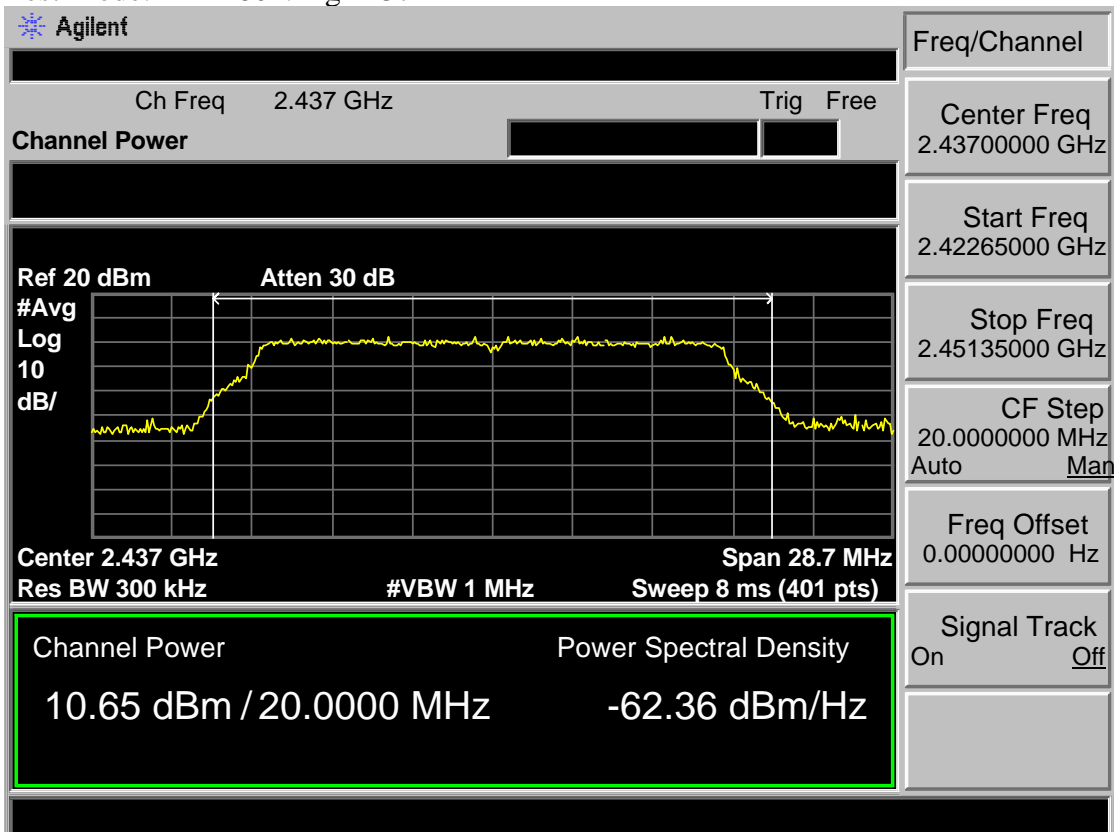
Test Mode: IEEE 802.11b 2462MHz



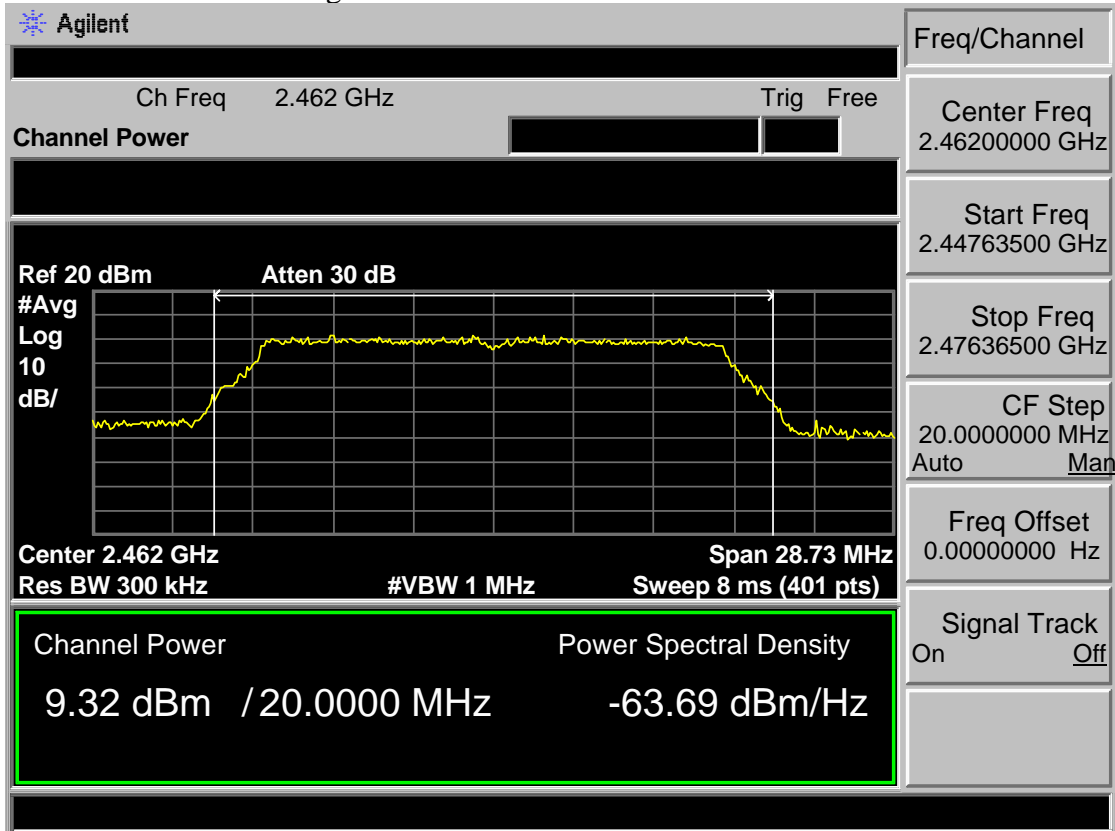
Test Mode: IEEE 802.11g 2412MHz



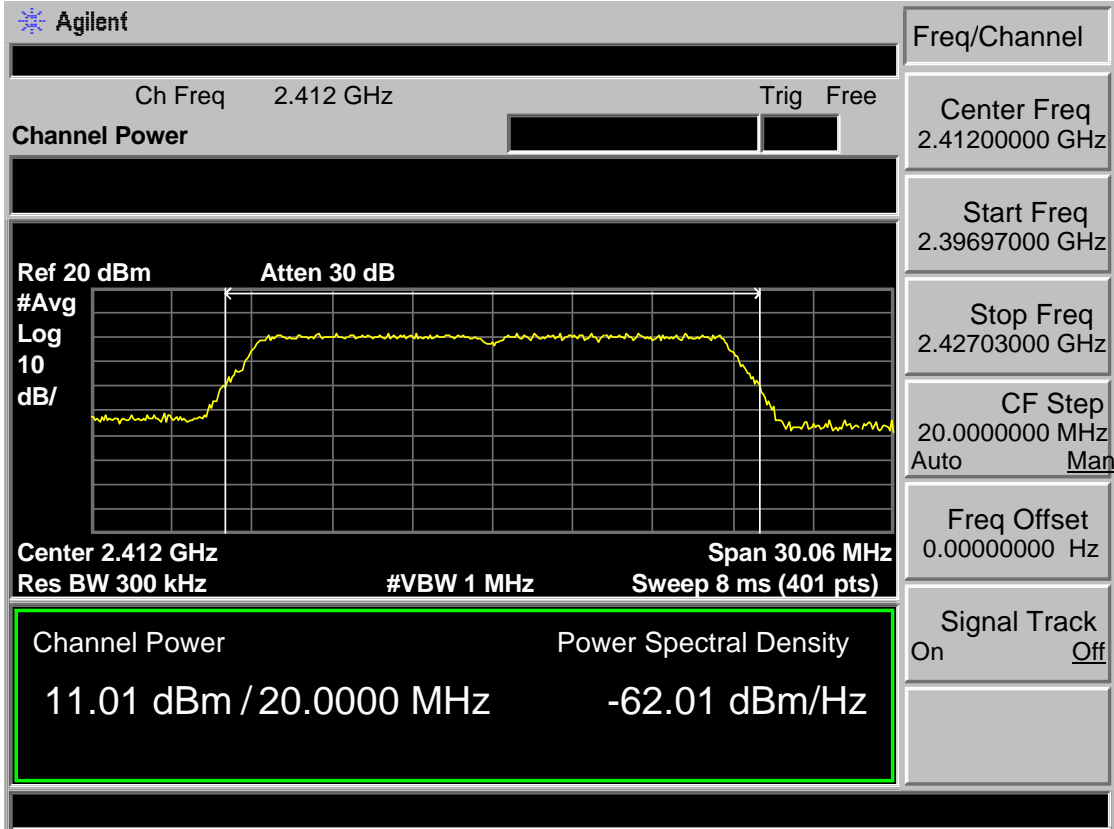
Test Mode: IEEE 802.11g 2437MHz



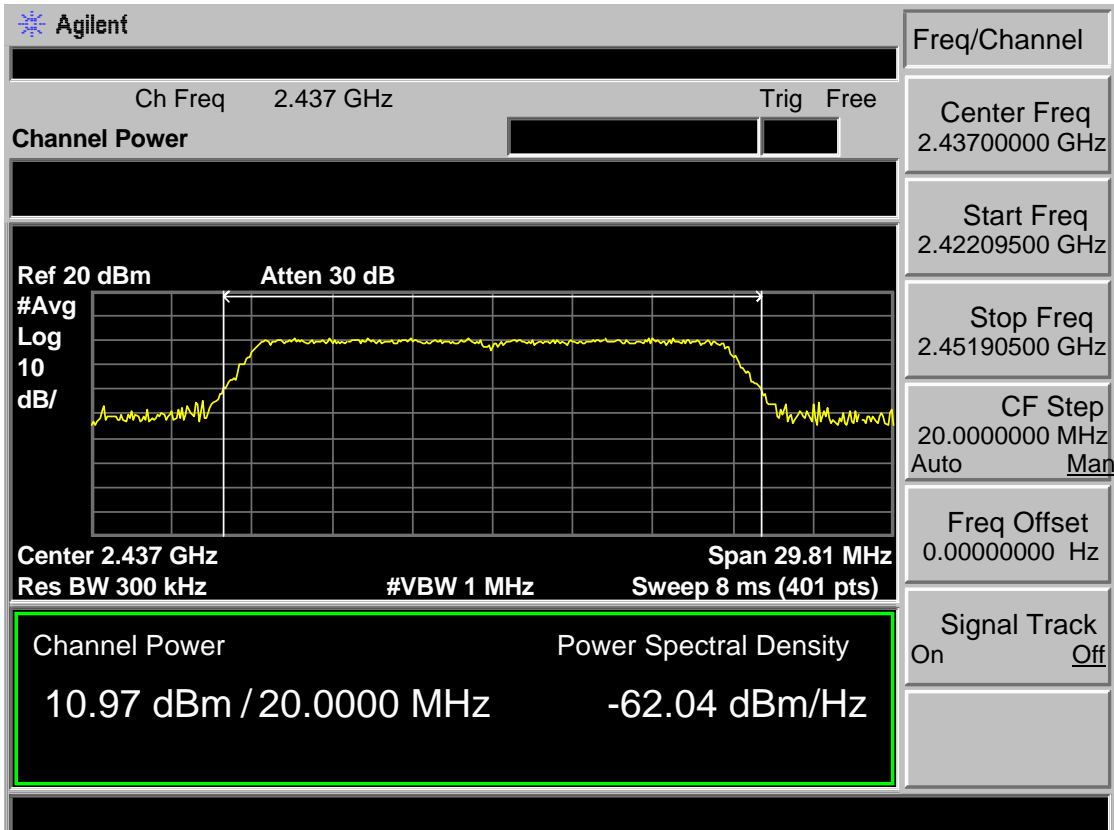
Test Mode: IEEE 802.11g 2462MHz



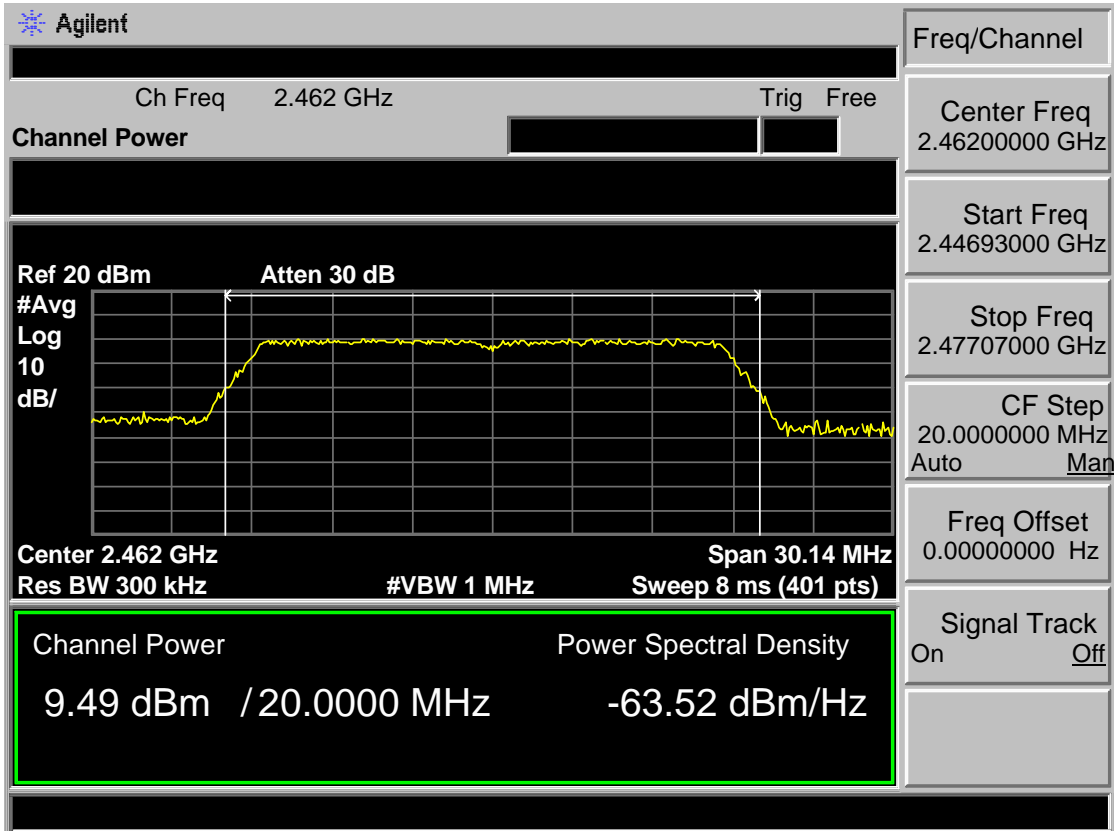
Test Mode: IEEE 802.11n HT20 2412MHz



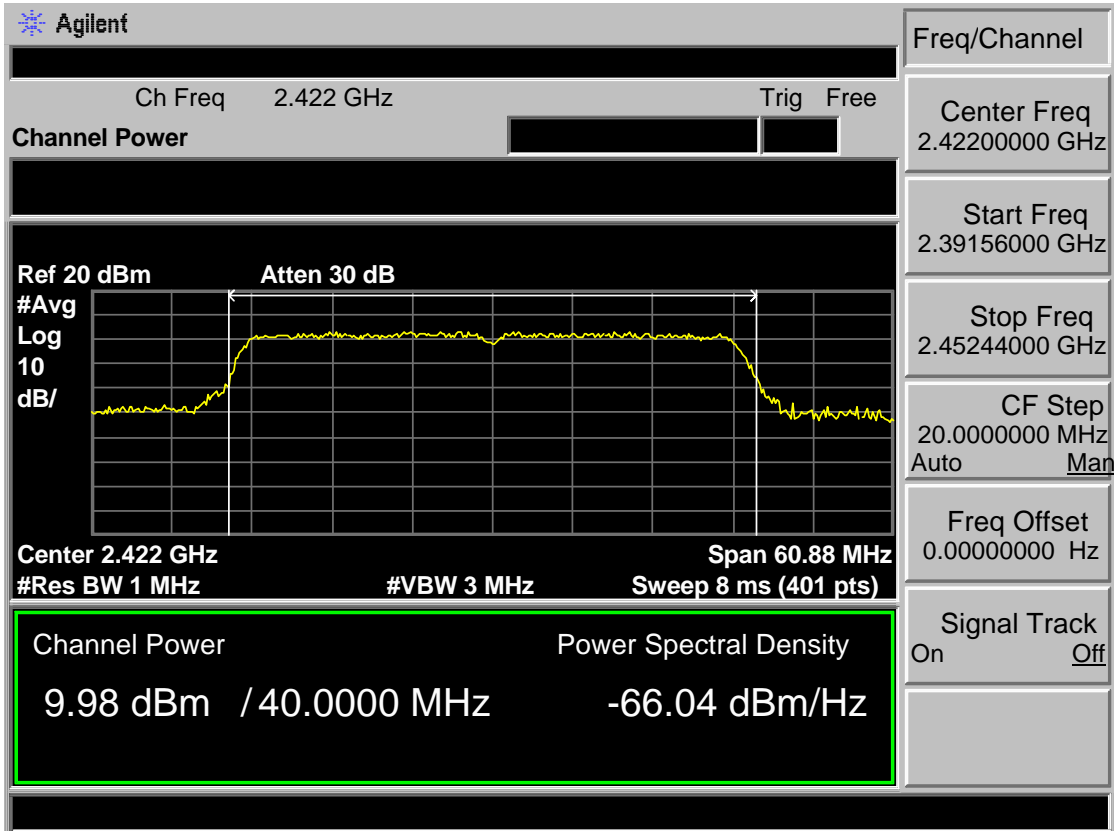
Test Mode: IEEE 802.11n HT20 2437MHz



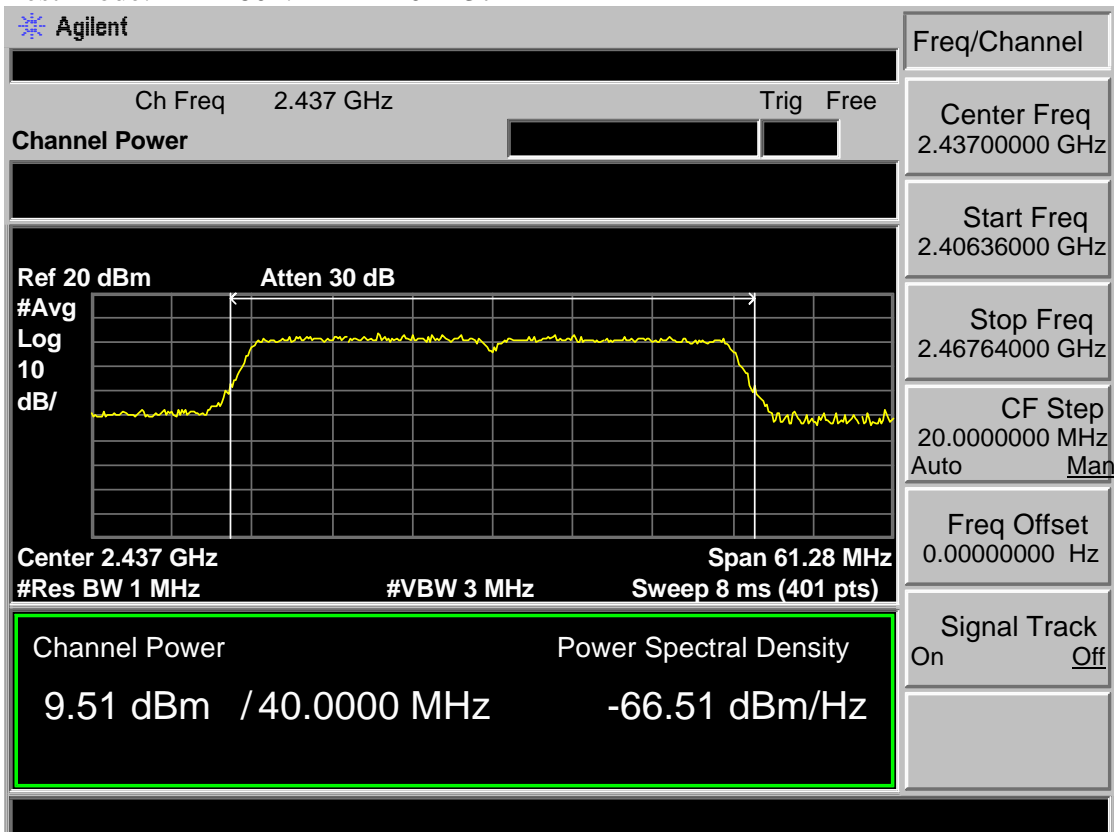
Test Mode: IEEE 802.11n HT20 2462MHz



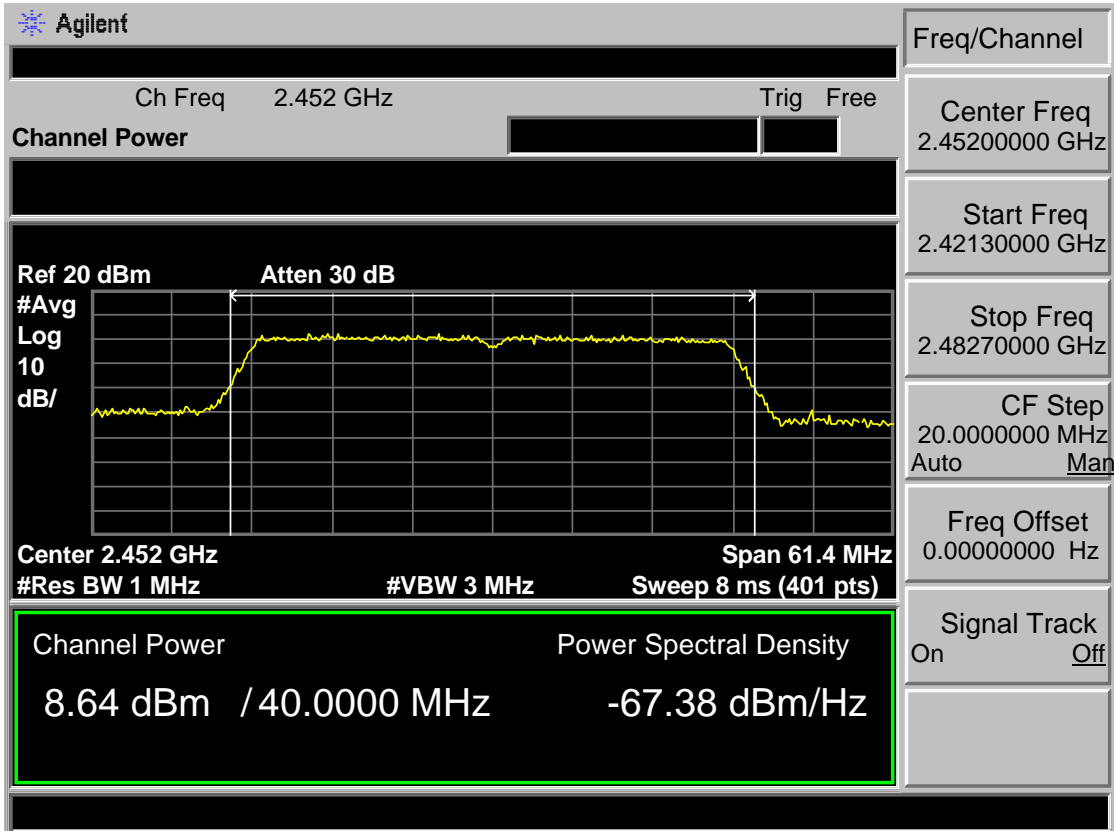
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz





## 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

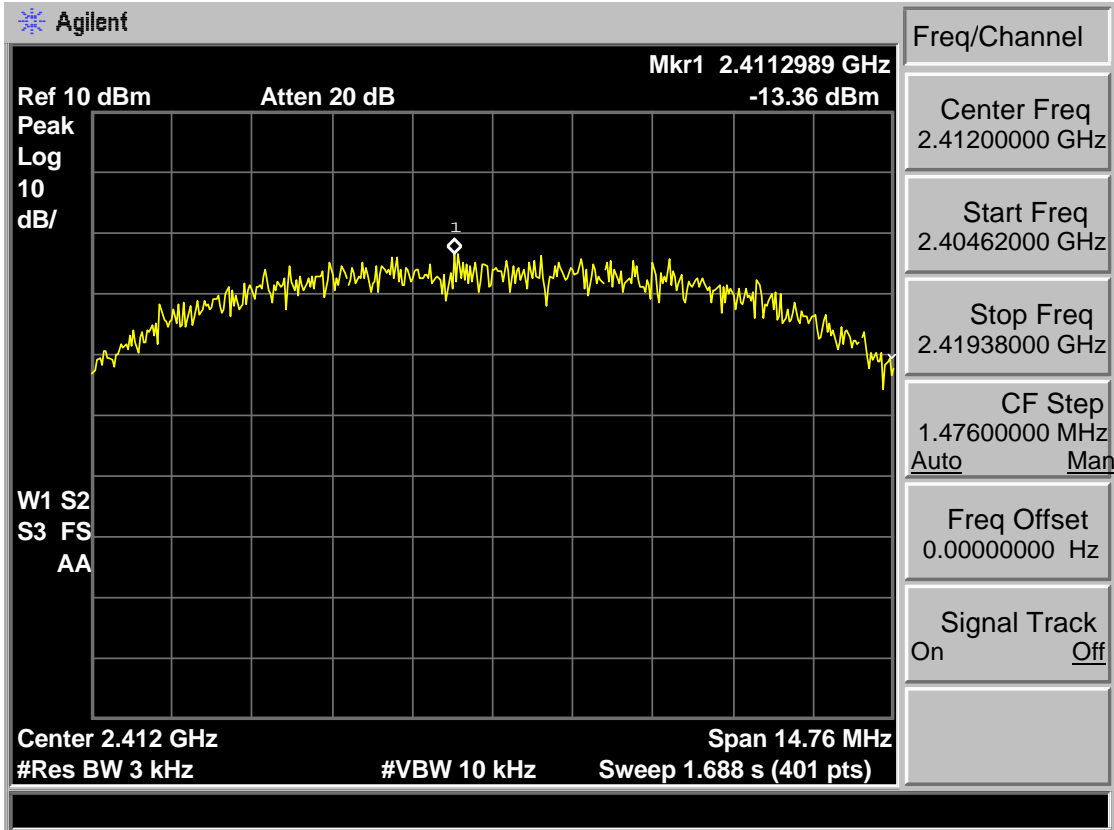
- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
  
- 2, Follow the test procedure as described in KDB 558074
  - (1). Set analyzer center frequency to DTS channel center frequency.
  - (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

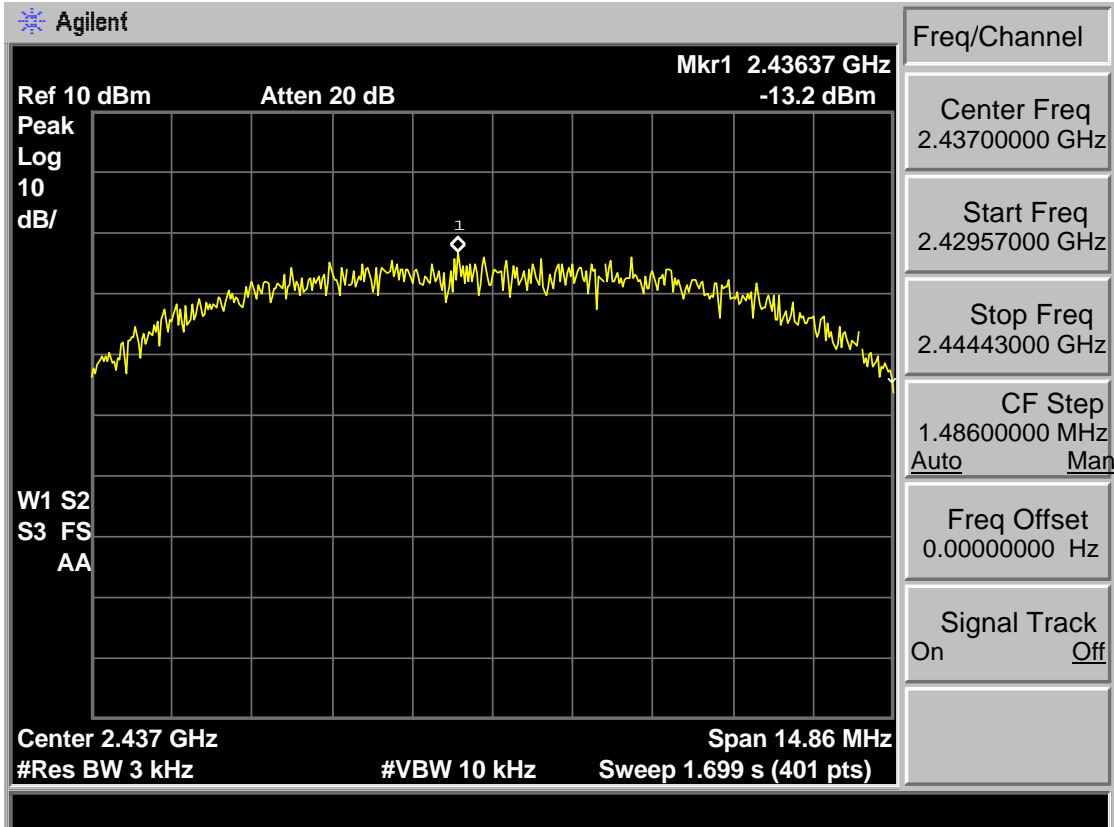
<b>EUT: INTERNET RADIO PLAYER</b>			
<b>M/N: DN-350UI</b>			
<b>Test date: 2017-06-28</b>		<b>Test site: RF Site</b>	
<b>Tested by: Tony Tang</b>			
<b>Pass</b>			
<b>Test Mode</b>	<b>CH</b>	<b>Power density ( dBm/3kHz )</b>	<b>Limit (dBm/3kHz)</b>
IEEE 802.11 b	CH1	-13.36	8
	CH6	-13.20	8
	CH11	-14.33	8
IEEE 802.11 g	CH1	-15.07	8
	CH6	-15.13	8
	CH11	-16.20	8
IEEE 802.11 n HT 20	CH1	-14.77	8
	CH6	-14.49	8
	CH11	-16.28	8
IEEE 802.11 n HT 40	CH1	-17.67	8
	CH4	-18.21	8
	CH7	-18.84	8
<b>Conclusion : PASS</b>			

### 8.4 Test Data

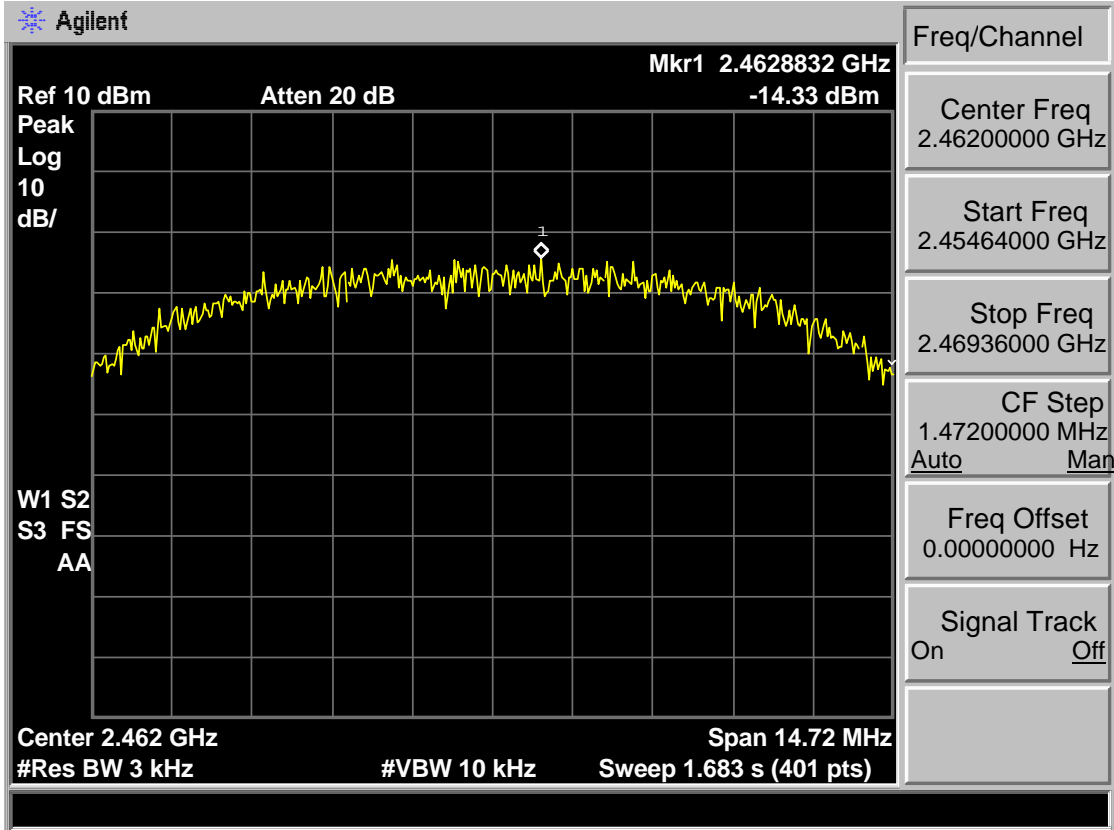
Test Mode: IEEE 802.11b 2412MHz



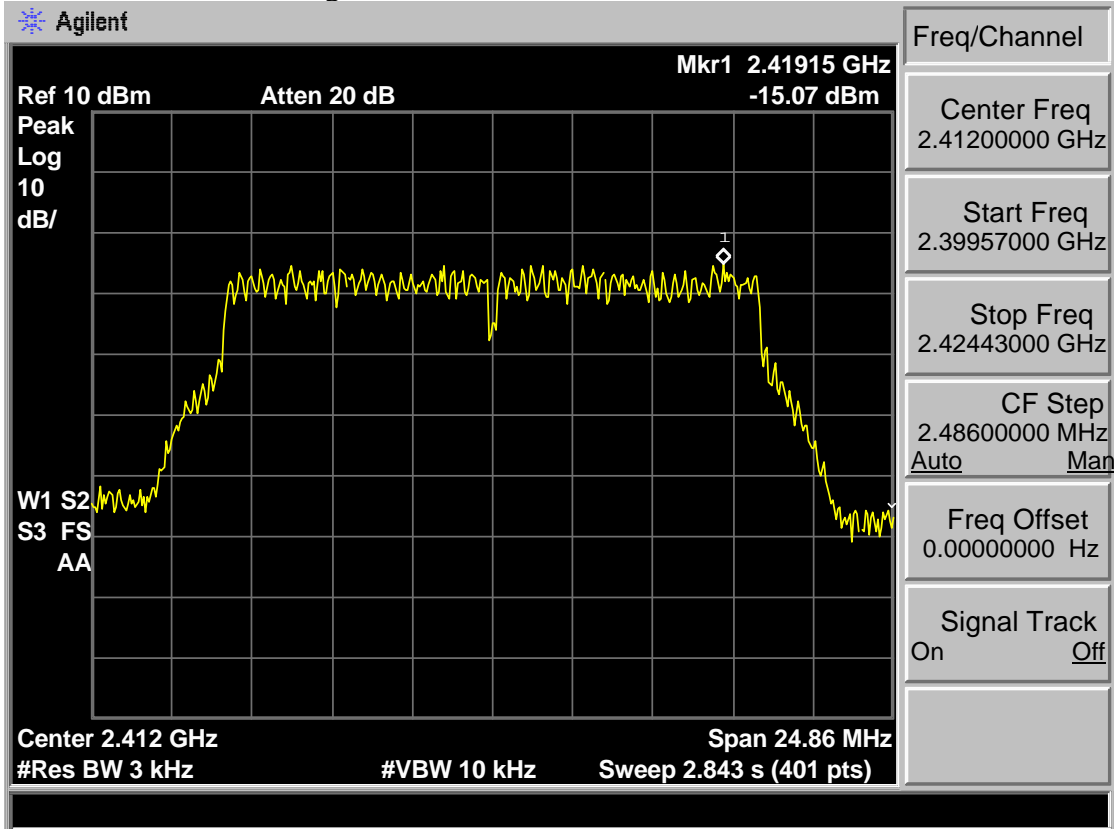
Test Mode: IEEE 802.11b 2437MHz



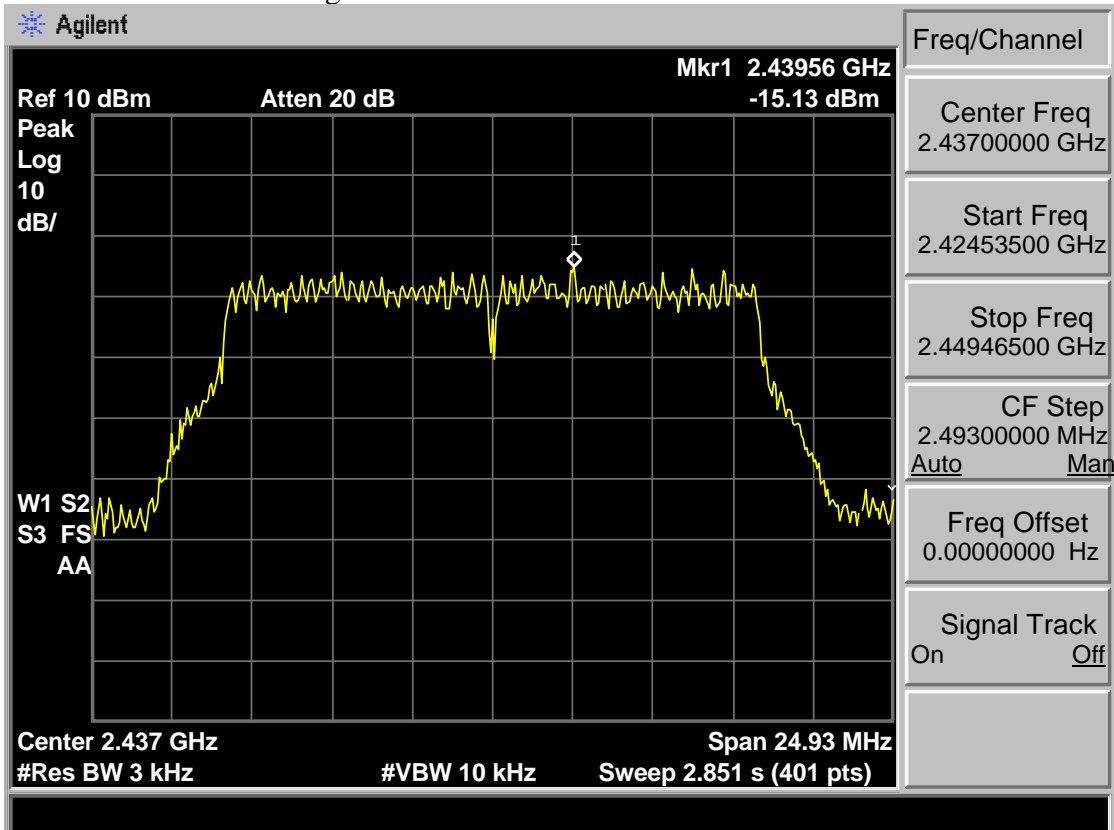
Test Mode: IEEE 802.11b 2462MHz



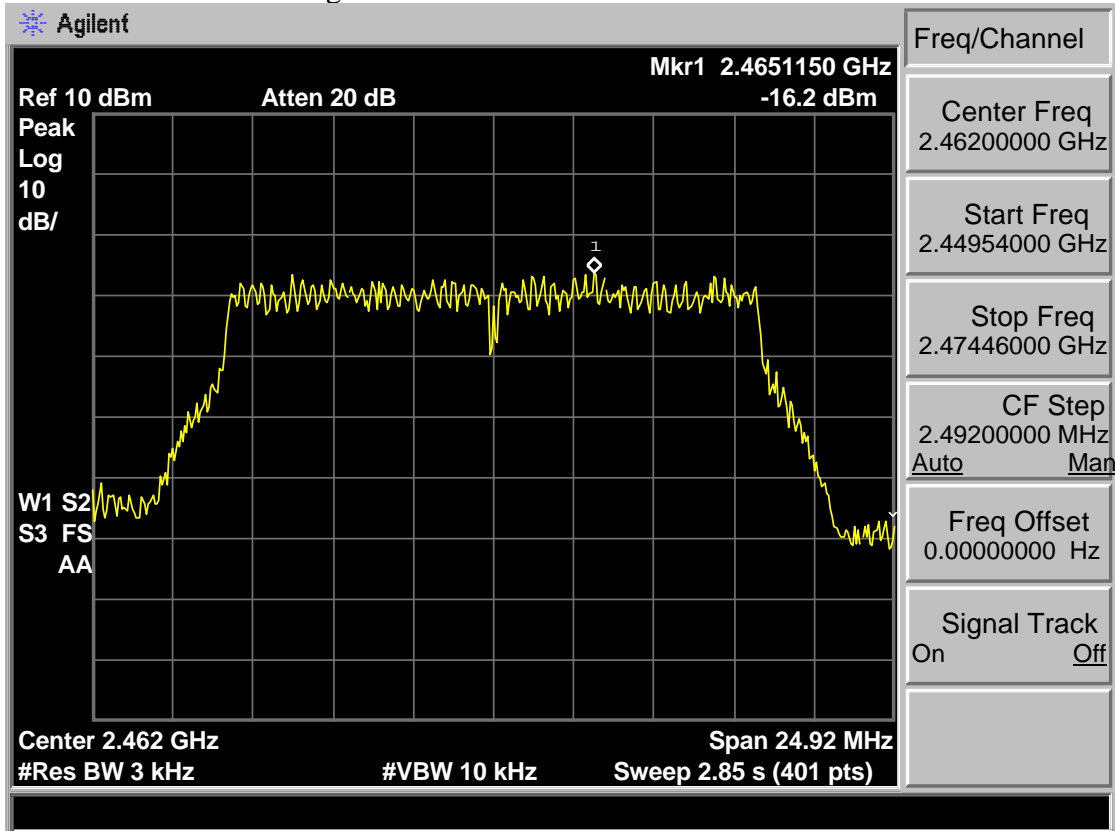
Test Mode: IEEE 802.11g 2412MHz



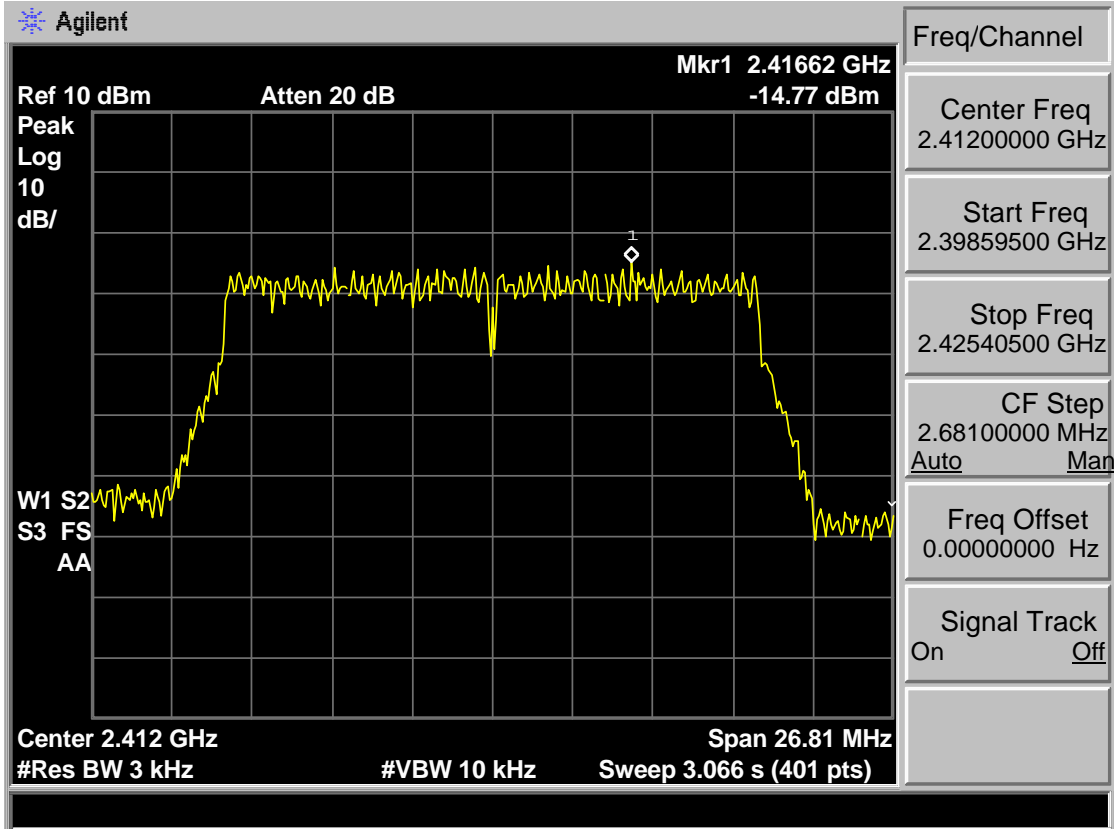
Test Mode: IEEE 802.11g 2437MHz



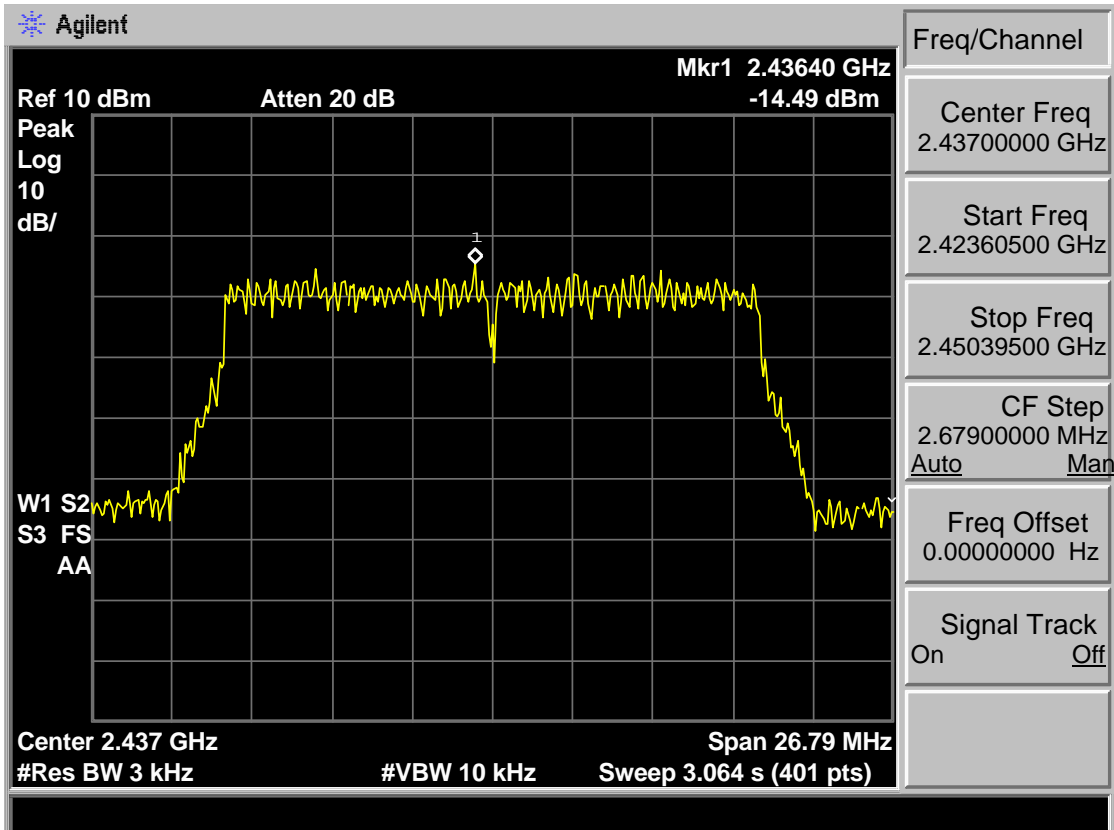
Test Mode: IEEE 802.11g 2462MHz



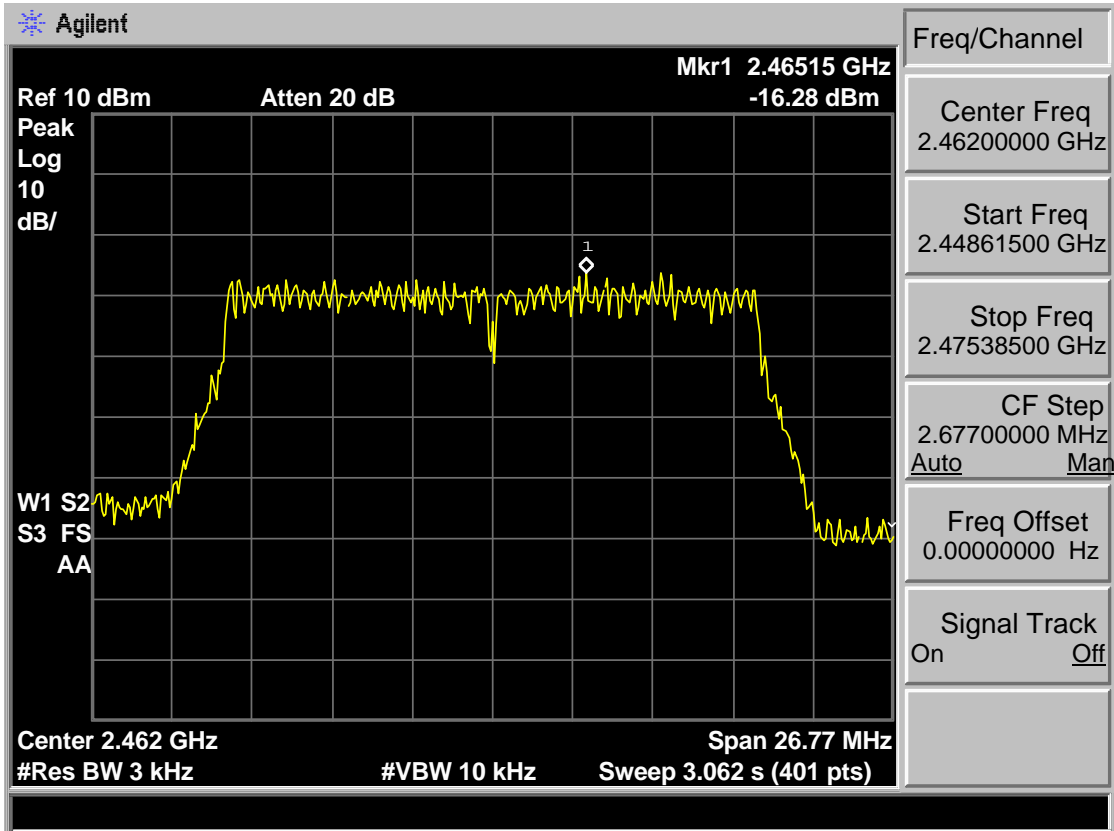
Test Mode: IEEE 802.11n HT20 2412MHz



Test Mode: IEEE 802.11n HT20 2437MHz

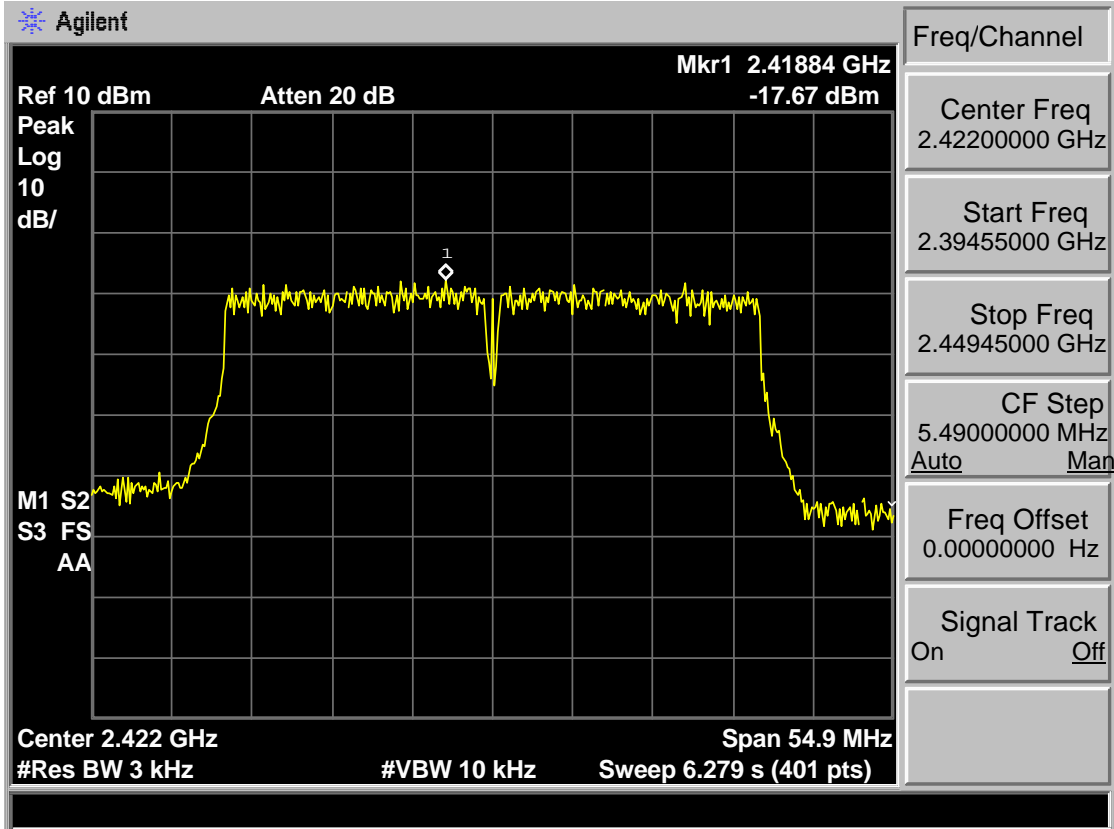


Test Mode: IEEE 802.11n HT20 2462MHz

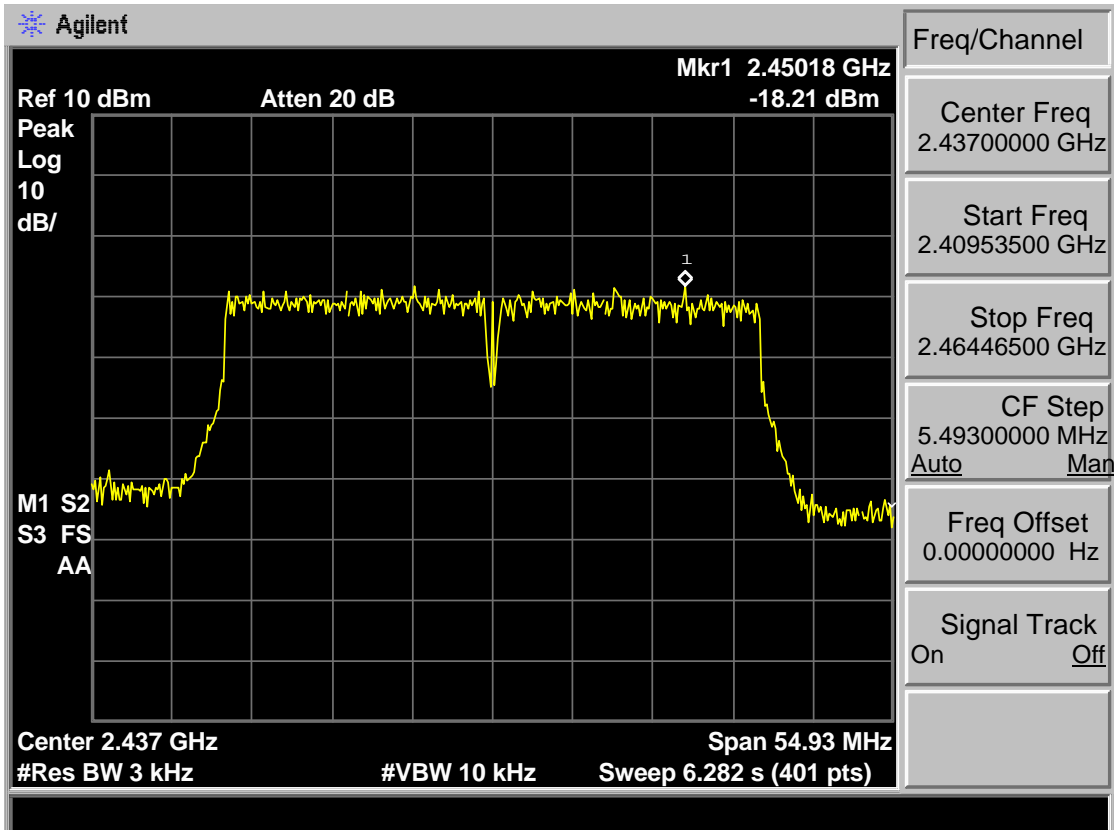




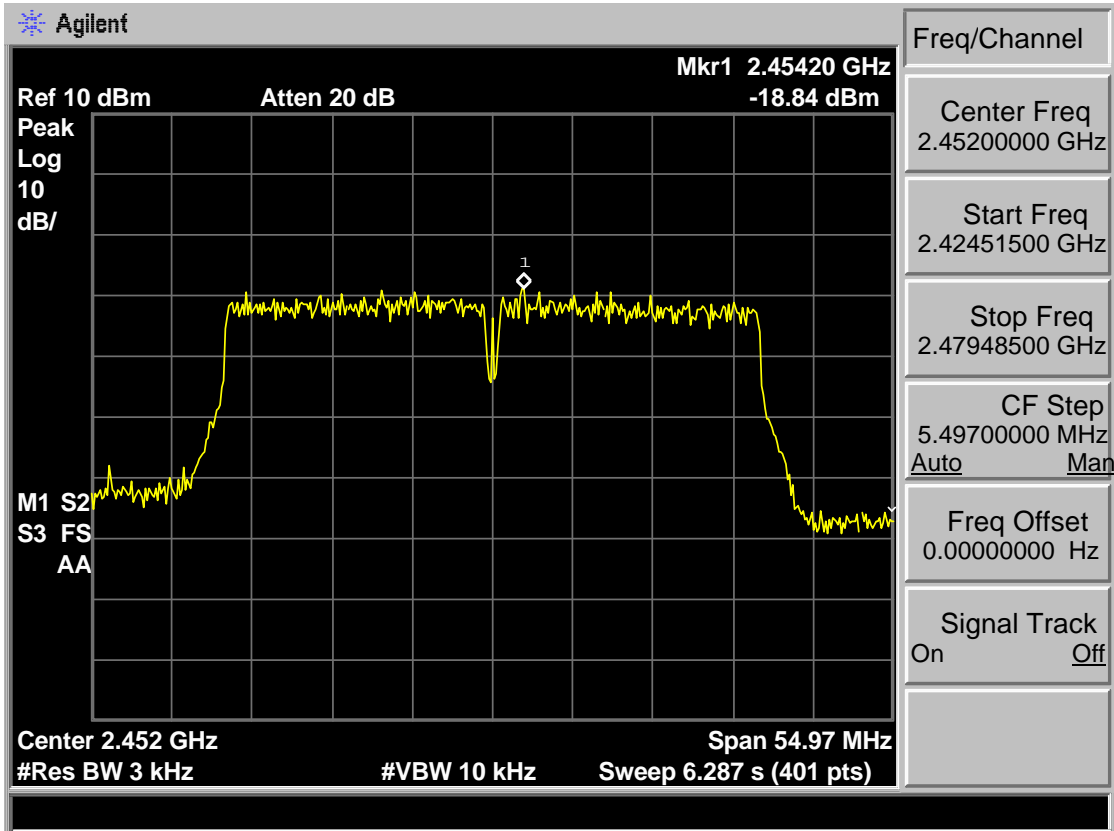
Test Mode: IEEE 802.11n HT40 2422MHz



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 external 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 4.0 dBi.