APPLICATION FOR CERTIFICATION

On Behalf of

SONY CORPORATION

Information Alarm Clock

Model No. : (1)HID-B70 (2)HID-B7

FCC ID: AK8HIDB70

Brand: SONY

Prepared for : SONY CORPORATION
1-7-1 KONAN MINATO-KU TOKYO 108-0075
JAPAN

Prepared by : AUDIX Technology Corporation
EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
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File Number	:	C1M1105310 (ACS Ref. No.: ACS11Q1006)
Report Number	:	EM-F1000529
Date of Test	:	Jun. 02 ~ 08, 2011
Date of Report	:	Jun. 09, 2011

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TEST REPORT CERTIFICATION

Applicant	:	SONY CORPORATION		
Manufacturer	:	SONY CORPORATION		
EUT Description	:	Information Alarm Clock		
FCC ID	:	**AK8HIDB70**		
		(A) Model No.	:	(1)HID-B70 (2)HID-B7
		(B) Serial No.	:	N/A
		(C) Brand	:	SONY
		(D) Power Supply	:	DC 12V
		(E) Test Voltage	:	AC 120V/60Hz (Via AC Adapter)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C, Oct. 2010
And ANSI C63.4/2003 + KDB558074

(FCC 47 CFR Part 15C, §15.205 and §15.207 and §15.209 and §15.247)

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 Subpart C limits.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the requirements of FCC Part 15 standards.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

Date of Test: Jun. 02 ~ 08, 2011   Date of Report: Jun. 08, 2011

Producer :
(Nita Lee/Administrator)

Signatory :
(Leon Liu/Deputy General Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Information Alarm Clock
Model Number	:	(1)HID-B70 (2)HID-B7 M/N: HID-B70 With Battery M/N: HID-B7 Without Battery Model HID-B70 is tested in this report.
Technical Judgment	:	1. The difference between these 2 models is with battery or not, all the schematics and WiFi module are identical. Model HID-B70 is tested in this report. 2. After function check, the USB supports downlink only and can't link to PC thus FCC DoC is no need.
Serial Number	:	N/A
Brand	:	SONY
FCC ID	:	AK8HIDB70
Applicant	:	SONY CORPORATION 1-7-1 KONAN MINATO-KU TOKYO 108-0075 JAPAN
Manufacturer	:	SONY CORPORATION 1-7-1 KONAN MINATO-KU TOKYO 108-0075 JAPAN
Fundamental Range	:	2412MHz ~ 2462MHz
Frequency Channel	:	802.11b/g: 11 channels 802.11n-HT20: 11 channels 802.11n-HT40: 7 channels
Radio Technology	:	802.11b: DSSS Modulation (DBPSK/DQPSK/CCK) 802.11g/n: OFDM Modulation (BPSK/QPSK/16QAM/64QAM)

Data Transfer Rate	:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 150Mbps
Antenna Gain	:	WiFi Antenna: 1.0dBi (Peak) Skycross, DPAD00296
Battery	:	1060mAh, 7.4V, Lithium-ion
AC Adapter (2Pin)	:	SONY, M/N: AC-P1215xy (x=A-Z or blank, y= 0-9 or blank) Test Model: AC-P1215A Input: 100-240V~, 50/60Hz, 0.4A Output: DC 12.0V, 1.5A Cable: Non-Shielded, Undetachable, 1.5m Bonded a ferrite core
Date of Receipt of Sample	:	May 30, 2011
Date of Test	:	Jun. 02 ~ 08, 2011

1.2. Data Rate Relative to Output Power

802.11b			
Channel	Modulation	Date Rate(Mbps)	Average Power(dBm)
1	DBPSK	1	15.55
1	DQPSK	2	15.50
1	CCK	5.5	14.65
1	CCK	11	14.67

802.11g			
Channel	Modulation	Date Rate(Mbps)	Average Power(dBm)
1	BPSK	6	12.41
1	BPSK	9	12.37
1	QPSK	12	12.07
1	QPSK	18	11.65
1	16-QAM	24	11.61
1	16-QAM	36	11.22
1	64-QAM	48	10.63
1	64-QAM	54	10.53

802.11n-HT20			
Channel	Modulation	Date Rate(Mbps)	Average Power(dBm)
1	BPSK	6.5	10.73
1	QPSK	13	10.21
1	QPSK	19.5	10.03
1	16-QAM	26	9.87
1	16-QAM	39	9.35
1	64-QAM	52	8.91
1	64-QAM	58.6	8.85
1	64-QAM	65	8.56

802.11g-HT40			
Channel	Modulation	Date Rate(Mbps)	Average Power(dBm)
3	BPSK	13.5	9.78
3	QPSK	27	9.17
3	QPSK	40.5	8.61
3	16-QAM	54	9.13
3	16-QAM	81	8.31
3	64-QAM	108	8.02
3	64-QAM	121.5	7.73
3	64-QAM	150	7.56

1.3. Test Configuration for Each Test Item

Test Item	802.11b	802.11g	802.11n-HT20	802.11n-HT40
	Data Rate for Test(Mbps)			
6dB BW	1	6	6.5	13.5
Peak Power Spectral Density	1	6	6.5	13.5
Peak Output Power	1	6	6.5	13.5
Band Edge	1	6	6.5	13.5
Conducted Spurious Emission	1	6	6.5	13.5
Radiated Spurious Emission	1	6	6.5	13.5

1.4. Tested Supporting System Details

【Only For Conducted Emission Measurement】

1.4.1. SIMULATOR (POWER SOCKET)

Model Number	:	N/A
Serial Number	:	N/A
Manufacturer	:	N/A
AC Power Cord	:	Non-Shielded, Detachable, 1.8m (2 Pin)

1.4.2. EARPHONE

Model Number	:	N/A
Serial Number	:	N/A
Manufacturer	:	APPLE
Earphone Cable	:	Non-Shielded, Detachable, 0.9m

1.4.3. USB 2.0 STORAGE MEDIA (MICRO VAULT)

Model Number	:	U172P
Serial Number	:	95110880023242
FCC ID	:	By DoC
BSMI ID	:	D33311
Manufacturer	:	pqi
Data Cable	:	Shielded, Detachable, 1.5m

1.5. Description of Test Facility

Name of Firm	:	**AUDIX Technology Corporation** EMC Department No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien, Taiwan
Test Site (C3/Semi-AC)	:	**No. 3 Shielded Room** No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang Taipei Hsien, Taiwan **Semi-Anechoic Chamber** No. 53-11, Tin-Fu Tsun, Lin-Kou, Hsiang, Taipei Hsien, Taiwan May 14, 2009 Renewal on Federal Communication Commission Registration Number: 90993
NVLAP Lab. Code	:	200077-0
TAF Accreditation No	:	1724

1.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.74dB
	Above 1GHz	± 5.02dB

Remark：Uncertainty = $ku_c(y)$

Test Item	Uncertainty
6dB Bandwidth	± 0.05kHz
Maximum peak output power	± 0.33dBm
Emission Limitations	± 0.13dB
Band edges	± 0.13dB
Power spectral density	± 0.13dB

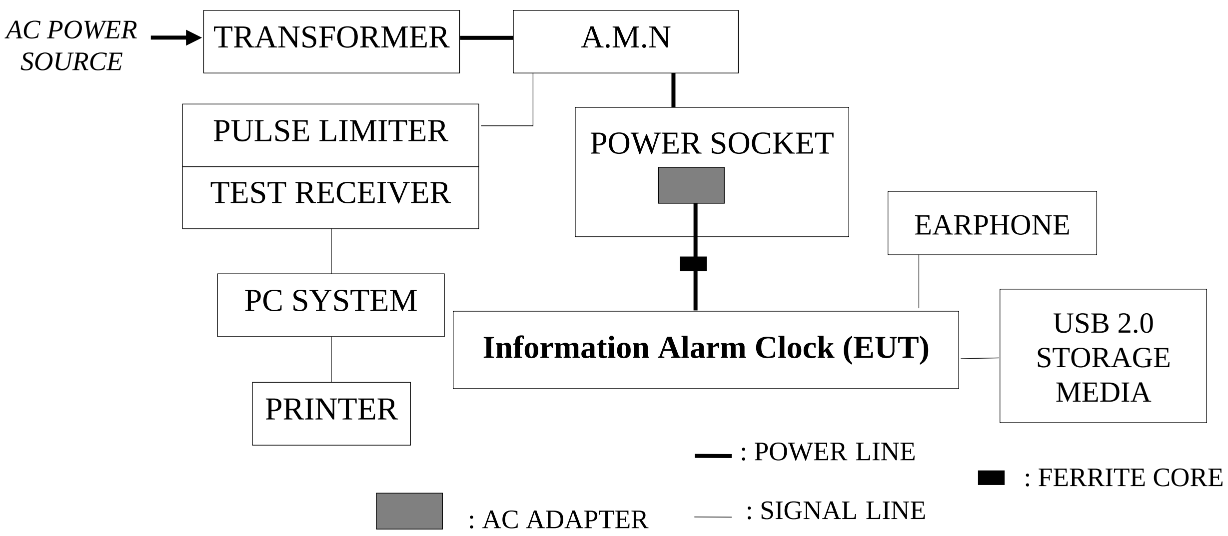
2. CONDUCTED EMISSION MEASUREMET

2.1. Test Equipment

The following test equipment was used during the conducted emission measurement：
(No. 3 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCS30	100337	Apr. 11, 11’	Apr. 10, 12’
2.	A.M.N.	Kyoritsu	KNW-244C	8-1373-5	Jul. 21, 10’	Jul, 20, 11’
3.	Pulse Limiter	R&S	ESH3-Z2	100041	Feb. 01, 11’	Jan, 31, 12’

2.2. Block Diagram of Test Setup



2.3. Conducted Emission Limits (§15.207)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.
2.: The lower limit applies at the band edges.

2.4. Operating Condition of EUT

2.4.1. Set up the EUT and simulator as shown on 2.2.

2.4.2. To turn on the power of all equipment.

2.4.3. The Information Alarm Clock (EUT) was playing file from USB 2.0 storage media during all testing.

2.4.4. The Information Alarm Clock (EUT) was on normal function during all testing.

2.5. Test Procedure

The EUT was put on the table which was above the ground by 80cm and power cord of AC Adapter was connected to the AC mains through an Artificial Mains Network (A.M.N.). This provided a 50Ω coupling impedance for the tested equipment. (Please refer to the block diagram of the test setup and photographs.)
Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to FCC ANSI C63.4-2003 during conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was pre-scanned with a peak detector.

All the readings of measurements were with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Conducted Emission Measurement Results

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

The EUT was performed during this section testing and all the test results are attached in next pages.

EUT：Information Alarm Clock M/N：HID-B70

Test Date：Jun. 02, 2011 Temperature：22℃ Humidity：52%

Reference Test Data：Neutral # 3; Line # 4

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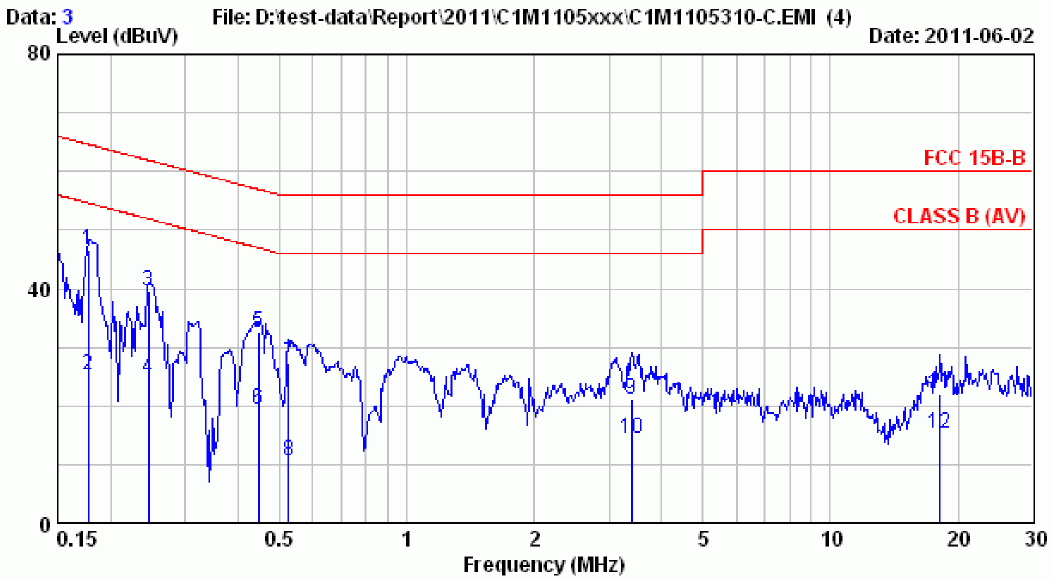


```
Site           : NO.3 Shielded Room          Data     : 3
Condition      : KNW-244C                    Phase    : LINE
Limit          : FCC 15B-B
Env. / Ins.    : 22*C / 52%   ESCS 30 (337)  Engineer: Edward
EUT  M/N       : HID-B70
Power Rating   : AC 120V/60Hz (Via AC Adapter)
Test Mode      : USB PLAYING
```

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.177	0.12	0.20	46.39	46.71	64.64	17.93	QP
2	0.177	0.12	0.20	25.00	25.32	54.64	29.32	AVERAGE
3	0.246	0.10	0.20	39.27	39.57	61.91	22.34	QP
4	0.246	0.10	0.20	24.32	24.62	51.91	27.29	AVERAGE
5	0.447	0.10	0.20	32.34	32.64	56.93	24.29	QP
6	0.447	0.10	0.20	18.95	19.25	46.93	27.68	AVERAGE
7	0.527	0.10	0.20	26.93	27.23	56.00	28.77	QP
8	0.527	0.10	0.20	10.37	10.67	46.00	35.33	AVERAGE
9	3.399	0.18	0.40	20.39	20.97	56.00	35.03	QP
10	3.399	0.18	0.40	13.80	14.38	46.00	31.62	AVERAGE
11	18.135	0.40	0.70	20.98	22.08	60.00	37.92	QP
12	18.135	0.40	0.70	14.17	15.27	50.00	34.73	AVERAGE

Remarks: 1.Emission Level= AMN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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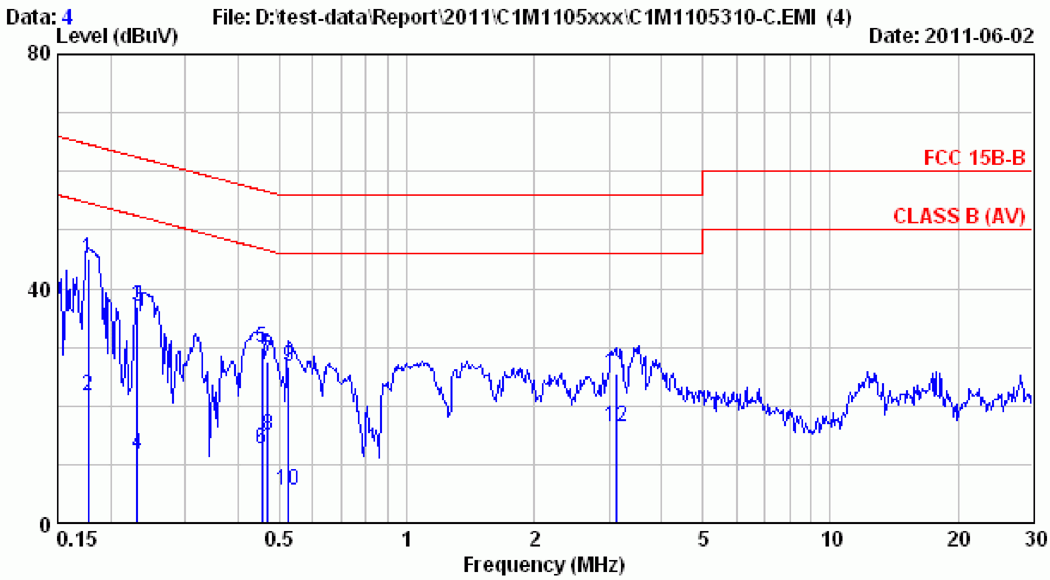


Site	: NO.3 Shielded Room		Data	:	4
Condition	: KNW-244C		Phase	:	NEUTRAL
Limit	: FCC 15B-B				
Env. / Ins.	: 22*C / 52%	ESCS 30 (337)	Engineer:		Edward
EUT M/N	: HID-B70				
Power Rating	: AC 120V/60Hz (Via AC Adapter)				
Test Mode	: USB PLAYING				

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.177	0.12	0.20	44.95	45.27	64.64	19.37	QP
2	0.177	0.12	0.20	21.32	21.64	54.64	33.00	AVERAGE
3	0.232	0.10	0.20	36.70	37.00	62.39	25.39	QP
4	0.232	0.10	0.20	11.44	11.74	52.39	40.65	AVERAGE
5	0.454	0.10	0.20	29.63	29.93	56.80	26.87	QP
6	0.454	0.10	0.20	12.32	12.62	46.80	34.18	AVERAGE
7	0.471	0.10	0.20	27.25	27.55	56.49	28.94	QP
8	0.471	0.10	0.20	14.61	14.91	46.49	31.58	AVERAGE
9	0.527	0.10	0.20	26.24	26.54	56.00	29.46	QP
10	0.527	0.10	0.20	5.38	5.68	46.00	40.32	AVERAGE
11	3.123	0.20	0.40	25.04	25.64	56.00	30.36	QP
12	3.123	0.20	0.40	15.89	16.49	46.00	29.51	AVERAGE

Remarks: 1.Emission Level= AMN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

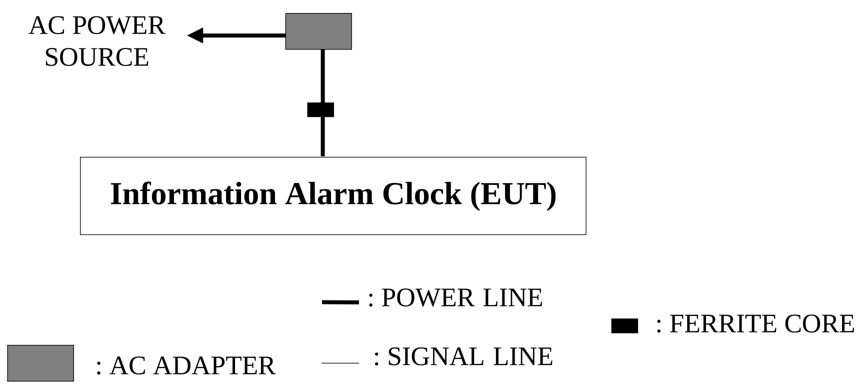
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10’	Aug. 03, 11’
2.	Test Receiver	R & S	ESCS30	100338	Jul. 08, 10’	Jul. 07, 11’
3.	Amplifier	HP	8447D	2944A06305	Feb. 10, 11’	Feb. 09, 12’
4.	Log Periodic Antenna	Schwarzbeck	UHALP 9108-A	0810	Mar. 08, 11’	Mar. 07, 12’
5.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 08, 11’	Mar. 07, 12’

3.1.2. For Frequency Above 1GHz (at Semi-Anechoic Chamber)

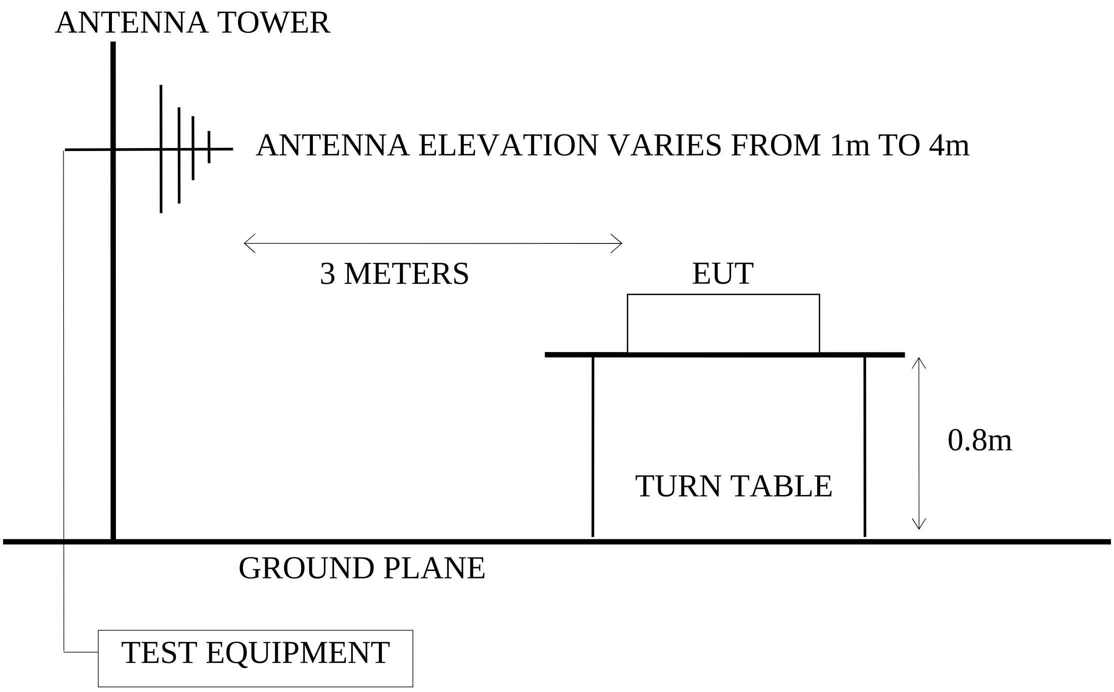
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10’	Aug. 03, 11’
2.	Test Receiver	R & S	ESCS30	100338	Jul. 08, 10’	Jul. 07, 11’
3.	Amplifier	HP	8449B	3008A00529	Dec. 10, 10’	Dec. 09, 11’
4.	Horn Antenna	EMCO	3115	9112-3775	May 09, 11’	May 08, 12’
5.	Horn Antenna	EMCO	3116	2653	Oct. 04, 10’	Oct. 03, 11’
6.	2.4GHz Notch Filter	EWT	EWT-14-0070-R1	G2	Dec. 05, 10’	Dec. 04, 11’
7.	3.5G High Pass Filter	HP	84300-80038	005	Jan. 05, 11’	Jan. 04, 12’

3.2. Test Setup

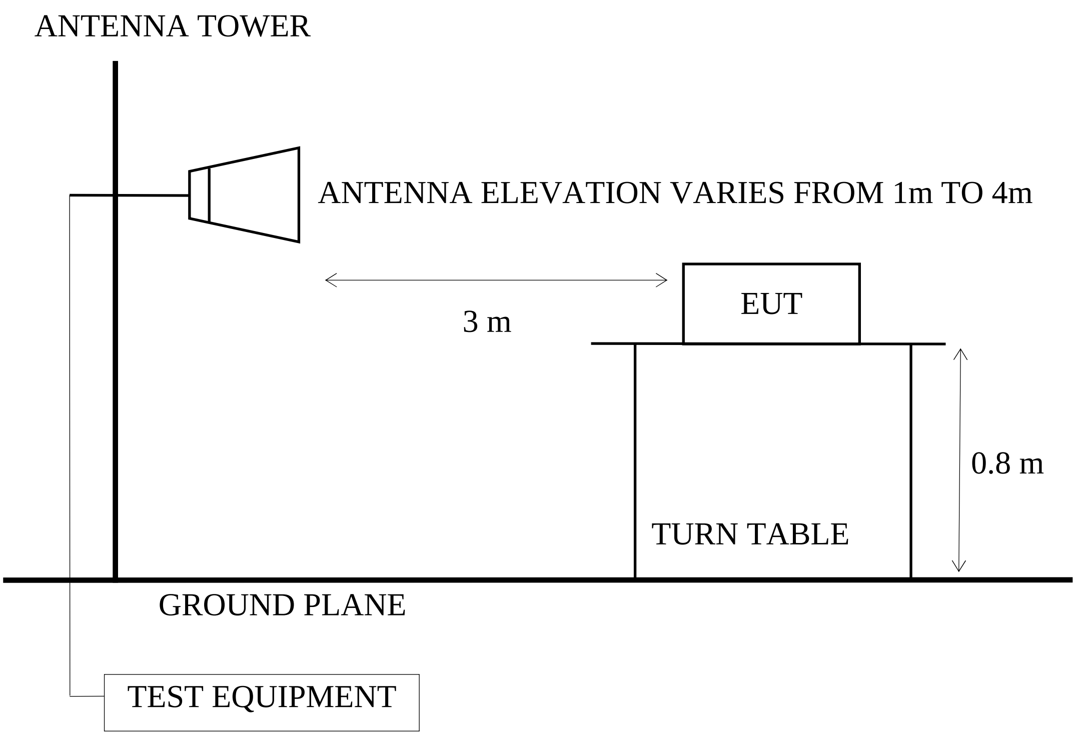
3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



3.3. Radiated Emission Limits (§15.209)

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

Remark：(1) Emission level (dBμV/m) = 20 log Emission level (μV/m)
(2) The tighter limit applies at the edge between two frequency bands.
(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
(4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
(5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35(b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.4. Operating Condition of EUT

3.4.1. Set up the EUT (Information Alarm Clock) and simulator as shown on 3.2.

3.4.2. To turn on the power of all equipments.

3.4.3. The EUT (Information Alarm Clock) was running test program “Hyerterminal”.

802.11b, 802.11g, 802.11n-HT20

3.4.4. Transmit Mode: The EUT was set to continuously transmit signals at 2412Hz、2437MHz and 2462MHz through WiFi Antenna during testing.

3.4.5. Receive Mode: The EUT was set to continuously receive signals at 2437MHz WiFi Antenna during testing.

802.11n-HT40

3.4.6. Transmit Mode: The EUT was set to continuously transmit signals at 2422Hz、2437MHz and 2452MHz WiFi Antenna during testing.

3.4.7. Receive Mode: The EUT was set to continuously receive signals at 2437MHz WiFi Antenna during testing.

3.5. Test Procedure

The EUT and its simulators were placed on the turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set to 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log-periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

The bandwidth of the R&S Test Receiver was set at 120kHz. (For 30MHz to 1000MHz)

The resolution bandwidth and video bandwidth of test spectrum analyzer is 1MHz for peak detection (PK) at frequency above 1GHz.

The resolution bandwidth of test spectrum analyzer is 1MHz and the video bandwidth is 10Hz for average detection (AV) at frequency above 1GHz.

The frequency range from 30MHz to 25GHz (Up to 10th harmonics from fundamental frequency) was checked. 30MHz to 1000MHz was measured with Quasi-Peak detector. Above 1GHz was measured with peak and average detector. For average reading in frequency from 5.5G to 25GHz, we checked it in 1 meter distance and with a shorter cable 2 meter instead of original's. There is no signal exist.

3.6. Test Results

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

EUT：Information Alarm Clock M/N：HID-B70

Test Date：Jun. 08, 2011 Temperature：27℃ Humidity：59%

For Frequency Range 30MHz~1000MHz:

The EUT (Information Alarm Clock) with following test modes was performed during this section testing and all the test results are listed in section 3.6.1.

No.	Test Mode	Channel	Test Mode and Frequency	
1.	WLAN (802.11b)	CH 1	2412MHz	Transmit
2.		CH 6	2437MHz	
3.		CH 11	2462MHz	
4.		CH 6	2437MHz	Receive
5.	WLAN (802.11g)	CH 1	2412MHz	Transmit
6.		CH 6	2437MHz	
7.		CH 11	2462MHz	
8.		CH 6	2437MHz	Receive
9.	WLAN (802.11n-HT20)	CH 1	2412MHz	Transmit
10.		CH 6	2437MHz	
11.		CH 11	2462MHz	
12.		CH 6	2437MHz	Receive
13.	WLAN (802.11n-HT40)	CH 3	2422MHz	Transmit
14.		CH 6	2437MHz	
15.		CH 9	2452MHz	
16.		CH 6	2437MHz	Receive

* Above all final readings were measured with Quasi-Peak detector.

For Frequency above 1GHz:

The EUT (Information Alarm Clock) with following test modes was performed during this section testing and all the test results are listed in section 3.6.2.

No.	Test Mode	Channel	Test Mode and Frequency	
1.	WLAN (802.11b)	CH 1	2412MHz	Transmit
2.		CH 6	2437MHz	
3.		CH 11	2462MHz	
4.	WLAN (802.11g)	CH 1	2412MHz	Transmit
5.		CH 6	2437MHz	
6.		CH 11	2462MHz	
7.	WLAN (802.11n-HT20)	CH 1	2412MHz	Transmit
8.		CH 6	2437MHz	
9.		CH 11	2462MHz	
10.	WLAN (802.11n-HT40)	CH 3	2422MHz	Transmit
11.		CH 6	2437MHz	
12.		CH 9	2452MHz	

Note: 1. Above all final readings were measured with Peak detector.
2. The emissions level of Receive Mode were too low against the official limit and not report.
3. For measurements above 1GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement. (According to ANSI C63.4-2003 section 8.3.1.2)

For Restricted Bands:

The EUT was tested in restricted bands and all the test results are listed in section 3.6.3. (The restricted bands defined in part 15.205(a))

No.	Test Mode	Channel	Frequency	Test Mode
1.	WLAN (802.11b)	CH 1	2412MHz	Transmit
2.		CH 11	2462MHz	
3.	WLAN (802.11g)	CH 1	2412MHz	Transmit
4.		CH 11	2462MHz	
5.	WLAN (802.11n-HT20)	CH 1	2412MHz	Transmit
6.		CH 11	2462MHz	
7.	WLAN (802.11n-HT40)	CH 3	2422MHz	Transmit
8.		CH 9	2452MHz	

3.6.1. For 30-1000MHz Frequency Range Measurement Results

802.11b, Transmit, Frequency: 2412MHz

```
Site no.     : A/C Chamber                 Data no.  : 7
Dis. / Ant.  : 3m   VBA6106A/UHALP9108A    Ant. pol. : HORIZONTAL
Limit        : FCC PART-15C
Env. / Ins.  : E4446A 27*C /59%            Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2412(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	3.67	25.33	40.00	14.67	
2	161.920	20.85	2.70	9.62	33.17	43.50	10.33	
3	298.690	26.72	3.90	2.95	33.57	46.00	12.43	
4	439.340	17.57	5.30	4.29	27.16	46.00	18.84	
5	478.140	18.61	6.00	6.96	31.57	46.00	14.43	
6	604.240	21.42	6.30	0.18	27.89	46.00	18.11	
7	870.020	25.71	7.20	-0.17	32.74	46.00	13.26	

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

```
Site no.     : A/C Chamber                 Data no.  : 8
Dis. / Ant.  : 3m   VBA6106A/UHALP9108A    Ant. pol. : VERTICAL
Limit        : FCC PART-15C
Env. / Ins.  : E4446A 27*C /59%            Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2412(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	15.32	36.98	40.00	3.02	
2	121.180	19.15	2.30	9.44	30.90	43.50	12.60	
3	160.950	20.82	2.70	14.58	38.11	43.50	5.39	
4	439.340	17.57	5.30	6.55	29.42	46.00	16.58	
5	480.080	18.68	6.05	13.73	38.46	46.00	7.54	
6	518.880	20.01	6.90	5.33	32.24	46.00	13.76	
7	917.550	24.84	7.40	1.68	33.92	46.00	12.08	

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

802.11b, Transmit, Frequency: 2437MHz

```
Site no.      : A/C Chamber                  Data no.  : 7
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A     Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C
Env. / Ins.   : E4446A 27*C /59%             Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2437(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	41.640	20.14	1.30	3.38	24.82	40.00	15.18	
2	161.920	20.85	2.70	9.06	32.61	43.50	10.89	
3	307.420	14.94	3.91	14.03	32.87	46.00	13.13	
4	439.340	17.57	5.30	4.56	27.43	46.00	18.57	
5	483.960	18.84	6.14	6.70	31.68	46.00	14.32	
6	518.880	20.01	6.90	0.62	27.53	46.00	18.47	
7	861.290	26.09	7.20	-0.30	32.99	46.00	13.01	
8	918.520	24.82	7.40	1.40	33.62	46.00	12.38	

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

```
Site no.      : A/C Chamber                  Data no.  : 8
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A     Ant. pol. : VERTICAL
Limit         : FCC PART-15C
Env. / Ins.   : E4446A 27*C /59%             Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2437(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	15.45	37.11	40.00	2.89	
2	120.210	19.08	2.30	10.10	31.48	43.50	12.02	
3	160.950	20.82	2.70	14.52	38.04	43.50	5.46	
4	441.280	17.63	5.30	7.08	30.01	46.00	15.99	
5	480.080	18.68	6.05	13.90	38.63	46.00	7.37	
6	519.850	19.99	6.90	4.38	31.27	46.00	14.73	
7	747.800	23.11	6.70	-0.42	29.39	46.00	16.61	
8	918.520	24.82	7.40	1.17	33.39	46.00	12.61	

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

802.11b, Transmit, Frequency: 2462MHz

```
Site no.     : A/C Chamber                   Data no.  : 7
Dis. / Ant.  : 3m   VBA6106A/UHALP9108A      Ant. pol. : HORIZONTAL
Limit        : FCC PART-15C
Env. / Ins.  : E4446A 27*C /59%              Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2462(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	2.87	24.53	40.00	15.47	
2	161.920	20.85	2.70	8.99	32.54	43.50	10.96	
3	302.570	14.73	3.90	14.70	33.33	46.00	12.67	
4	443.220	17.62	5.33	5.02	27.97	46.00	18.03	
5	480.080	18.68	6.05	7.80	32.53	46.00	13.47	
6	523.730	19.76	6.90	1.60	28.26	46.00	17.74	
7	835.100	24.90	7.10	0.32	32.32	46.00	13.68	
8	918.520	24.82	7.40	1.47	33.69	46.00	12.31	

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

```
Site no.     : A/C Chamber                   Data no.  : 8
Dis. / Ant.  : 3m   VBA6106A/UHALP9108A      Ant. pol. : VERTICAL
Limit        : FCC PART-15C
Env. / Ins.  : E4446A 27*C /59%              Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2462(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	16.54	38.20	40.00	1.80	
2	120.210	19.08	2.30	10.19	31.57	43.50	11.93	
3	161.920	20.85	2.70	14.26	37.81	43.50	5.69	
4	441.280	17.63	5.30	6.01	28.94	46.00	17.06	
5	480.080	18.68	6.05	14.06	38.79	46.00	7.21	
6	518.880	20.01	6.90	5.83	32.74	46.00	13.26	
7	922.400	24.52	7.40	1.19	33.11	46.00	12.89	

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

802.11b, Receive, Frequency: 2437MHz

Site no. : A/C Chamber
Dis. / Ant. : 3m VBA6106A/UHALP9108A
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : RX2437(802.11b)

Data no. : 1
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	2.92	24.58	40.00	15.42	
2	161.920	20.85	2.70	8.87	32.42	43.50	11.08	
3	306.450	14.94	3.90	15.38	34.22	46.00	11.78	
4	443.220	17.62	5.33	4.56	27.51	46.00	18.49	
5	483.960	18.84	6.14	7.17	32.15	46.00	13.85	
6	518.880	20.01	6.90	0.93	27.85	46.00	18.15	
7	917.550	24.84	7.40	0.80	33.04	46.00	12.96	

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

Site no. : A/C Chamber
Dis. / Ant. : 3m VBA6106A/UHALP9108A
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : RX2437(802.11b)

Data no. : 2
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	16.61	38.27	40.00	1.73	
2	120.210	19.08	2.30	10.40	31.78	43.50	11.72	
3	160.950	20.82	2.70	14.31	37.83	43.50	5.67	
4	441.280	17.63	5.30	5.75	28.68	46.00	17.32	
5	478.140	18.61	6.00	13.35	37.96	46.00	8.04	
6	518.880	20.01	6.90	4.60	31.51	46.00	14.49	
7	747.800	23.11	6.70	0.46	30.27	46.00	15.73	
8	973.810	26.64	7.70	-0.22	34.13	54.00	19.87	

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

802.11g, Transmit, Frequency: 2412MHz

Site no. : A/C Chamber   Data no. : 5
Dis. / Ant. : 3m VBA6106A/UHALP9108A   Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59%   Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2412(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	2.99	24.65	40.00	15.35	
2	160.950	20.82	2.70	9.66	33.19	43.50	10.31	
3	306.450	14.94	3.90	14.54	33.38	46.00	12.62	
4	441.280	17.63	5.30	4.33	27.26	46.00	18.74	
5	481.050	18.74	6.10	6.93	31.77	46.00	14.23	
6	918.520	24.82	7.40	1.12	33.34	46.00	12.66	
7	966.050	26.89	7.70	-0.48	34.11	54.00	19.89	

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

Site no. : A/C Chamber   Data no. : 6
Dis. / Ant. : 3m VBA6106A/UHALP9108A   Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59%   Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2412(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	15.71	37.37	40.00	2.63	
2	120.210	19.08	2.30	10.12	31.50	43.50	12.00	
3	161.920	20.85	2.70	14.33	37.88	43.50	5.62	
4	443.220	17.62	5.33	6.76	29.71	46.00	16.29	
5	478.140	18.61	6.00	14.12	38.73	46.00	7.27	
6	521.790	19.91	6.90	5.06	31.88	46.00	14.12	
7	747.800	23.11	6.70	0.53	30.34	46.00	15.66	
8	959.260	26.38	7.60	0.10	34.09	46.00	11.91	

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

802.11g, Transmit, Frequency: 2437MHz

Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59% Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2437(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	4.19	25.85	40.00	14.15	
2	161.920	20.85	2.70	9.13	32.68	43.50	10.82	
3	299.660	26.77	3.90	2.65	33.32	46.00	12.68	
4	443.220	17.62	5.33	4.58	27.53	46.00	18.47	
5	480.080	18.68	6.05	6.62	31.35	46.00	14.65	
6	521.790	19.91	6.90	1.30	28.12	46.00	17.88	
7	710.940	23.54	6.51	1.19	31.23	46.00	14.77	
8	959.260	26.38	7.60	0.08	34.07	46.00	11.93	

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

Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59% Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2437(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	15.45	37.11	40.00	2.89	
2	121.180	19.15	2.30	10.65	32.11	43.50	11.39	
3	160.950	20.82	2.70	14.03	37.55	43.50	5.95	
4	443.220	17.62	5.33	6.17	29.12	46.00	16.88	
5	478.140	18.61	6.00	13.93	38.54	46.00	7.46	
6	518.880	20.01	6.90	5.08	31.99	46.00	14.01	
7	918.520	24.82	7.40	1.01	33.23	46.00	12.77	

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

802.11g, Transmit, Frequency: 2462MHz

```
Site no.     : A/C Chamber                Data no.  : 5
Dis. / Ant.  : 3m   VBA6106A/UHALP9108A   Ant. pol. : HORIZONTAL
Limit        : FCC PART-15C
Env. / Ins.  : E4446A 27*C /59%           Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2462(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	3.12	24.78	40.00	15.22	
2	161.920	20.85	2.70	8.92	32.47	43.50	11.03	
3	302.570	14.73	3.90	15.21	33.84	46.00	12.16	
4	441.280	17.63	5.30	4.31	27.24	46.00	18.76	
5	478.140	18.61	6.00	6.91	31.52	46.00	14.48	
6	917.550	24.84	7.40	1.16	33.40	46.00	12.60	

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

```
Site no.     : A/C Chamber                Data no.  : 6
Dis. / Ant.  : 3m   VBA6106A/UHALP9108A   Ant. pol. : VERTICAL
Limit        : FCC PART-15C
Env. / Ins.  : E4446A 27*C /59%           Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2462(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	41.640	20.14	1.30	17.36	38.80	40.00	1.20	
2	120.210	19.08	2.30	10.24	31.62	43.50	11.88	
3	161.920	20.85	2.70	14.52	38.07	43.50	5.43	
4	443.220	17.62	5.33	6.29	29.24	46.00	16.76	
5	478.140	18.61	6.00	13.91	38.52	46.00	7.48	
6	519.850	19.99	6.90	5.41	32.30	46.00	13.70	
7	996.120	24.67	7.71	3.33	35.71	54.00	18.29	

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

802.11g, Receive, Frequency: 2437MHz

```
Site no.     : A/C Chamber                 Data no.  : 1
Dis. / Ant.  : 3m   VBA6106A/UHALP9108A    Ant. pol. : HORIZONTAL
Limit        : FCC PART-15C
Env. / Ins.  : E4446A 27*C /59%            Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : RX2437(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	3.42	25.08	40.00	14.92	
2	160.950	20.82	2.70	9.55	33.07	43.50	10.43	
3	306.450	14.94	3.90	14.21	33.05	46.00	12.95	
4	443.220	17.62	5.33	4.69	27.64	46.00	18.36	
5	483.960	18.84	6.14	7.32	32.30	46.00	13.70	
6	519.850	19.99	6.90	0.77	27.66	46.00	18.34	
7	971.870	26.79	7.70	-0.19	34.30	54.00	19.70	

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

```
Site no.     : A/C Chamber                 Data no.  : 2
Dis. / Ant.  : 3m   VBA6106A/UHALP9108A    Ant. pol. : VERTICAL
Limit        : FCC PART-15C
Env. / Ins.  : E4446A 27*C /59%            Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : RX2437(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	16.59	38.25	40.00	1.75	
2	120.210	19.08	2.30	9.86	31.24	43.50	12.26	
3	161.920	20.85	2.70	14.80	38.35	43.50	5.15	
4	443.220	17.62	5.33	5.94	28.89	46.00	17.11	
5	478.140	18.61	6.00	14.59	39.20	46.00	6.80	
6	523.730	19.76	6.90	5.25	31.91	46.00	14.09	
7	602.300	21.37	6.30	0.37	28.04	46.00	17.96	
8	918.520	24.82	7.40	1.28	33.50	46.00	12.50	

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

802.11n-HT20, Transmit, Frequency: 2412MHz

Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59% Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2412(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	3.95	25.61	40.00	14.39	
2	160.950	20.82	2.70	9.49	33.02	43.50	10.48	
3	306.450	14.94	3.90	14.61	33.45	46.00	12.55	
4	441.280	17.63	5.30	4.22	27.15	46.00	18.85	
5	478.140	18.61	6.00	6.82	31.43	46.00	14.57	
6	521.790	19.91	6.90	1.05	27.87	46.00	18.13	
7	859.350	26.01	7.20	-0.78	32.42	46.00	13.58	

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

Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59% Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2412(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	16.22	37.88	40.00	2.12	
2	120.210	19.08	2.30	10.02	31.40	43.50	12.10	
3	161.920	20.85	2.70	14.61	38.16	43.50	5.34	
4	439.340	17.57	5.30	6.15	29.02	46.00	16.98	
5	478.140	18.61	6.00	14.30	38.91	46.00	7.09	
6	519.850	19.99	6.90	5.93	32.82	46.00	13.18	
7	747.800	23.11	6.70	0.55	30.36	46.00	15.64	

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

802.11n-HT20, Transmit, Frequency: 2437MHz

```
Site no.     : A/C Chamber                  Data no.  : 5
Dis. / Ant.  : 3m   VBA6106A/UHALP9108A     Ant. pol. : HORIZONTAL
Limit        : FCC PART-15C
Env. / Ins.  : E4446A 27*C /59%             Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2437(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	41.640	20.14	1.30	3.22	24.66	40.00	15.34	
2	160.950	20.82	2.70	9.39	32.91	43.50	10.59	
3	302.570	14.73	3.90	14.68	33.31	46.00	12.69	
4	439.340	17.57	5.30	4.67	27.54	46.00	18.46	
5	483.960	18.84	6.14	6.87	31.85	46.00	14.15	
6	518.880	20.01	6.90	1.02	27.93	46.00	18.07	
7	963.140	26.63	7.60	1.08	35.31	54.00	18.69	

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

```
Site no.     : A/C Chamber                  Data no.  : 6
Dis. / Ant.  : 3m   VBA6106A/UHALP9108A     Ant. pol. : VERTICAL
Limit        : FCC PART-15C
Env. / Ins.  : E4446A 27*C /59%             Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2437(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	16.47	38.13	40.00	1.87	
2	120.210	19.08	2.30	10.05	31.43	43.50	12.07	
3	160.950	20.82	2.70	14.67	38.20	43.50	5.30	
4	441.280	17.63	5.30	5.94	28.87	46.00	17.13	
5	480.080	18.68	6.05	12.87	37.60	46.00	8.40	
6	519.850	19.99	6.90	5.05	31.94	46.00	14.06	
7	871.960	25.52	7.20	-0.42	32.30	46.00	13.70	

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

802.11n-HT20, Transmit, Frequency: 2462MHz

Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59% Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	41.640	20.14	1.30	3.79	25.23	40.00	14.77	
2	161.920	20.85	2.70	9.55	33.10	43.50	10.40	
3	306.450	14.94	3.90	14.61	33.45	46.00	12.55	
4	443.220	17.62	5.33	4.90	27.85	46.00	18.15	
5	480.080	18.68	6.05	7.18	31.91	46.00	14.09	
6	518.880	20.01	6.90	0.42	27.33	46.00	18.67	
7	966.050	26.89	7.70	-1.15	33.44	54.00	20.56	

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

Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59% Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	16.22	37.88	40.00	2.12	
2	120.210	19.08	2.30	9.61	30.99	43.50	12.51	
3	161.920	20.85	2.70	14.38	37.93	43.50	5.57	
4	441.280	17.63	5.30	6.96	29.89	46.00	16.11	
5	478.140	18.61	6.00	13.67	38.28	46.00	7.72	
6	518.880	20.01	6.90	4.92	31.83	46.00	14.17	
7	917.550	24.84	7.40	1.44	33.68	46.00	12.32	

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

802.11n-HT20, Receive, Frequency: 2437MHz

```
Site no.     : A/C Chamber                    Data no.  : 1
Dis. / Ant.  : 3m   VBA6106A/UHALP9108A       Ant. pol. : HORIZONTAL
Limit        : FCC PART-15C
Env. / Ins.  : E4446A 27*C /59%               Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : RX2437(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	41.640	20.14	1.30	3.58	25.02	40.00	14.98	
2	161.920	20.85	2.70	8.50	32.05	43.50	11.45	
3	306.450	14.94	3.90	15.24	34.08	46.00	11.92	
4	441.280	17.63	5.30	4.79	27.72	46.00	18.28	
5	483.960	18.84	6.14	7.14	32.12	46.00	13.88	
6	763.320	23.75	6.74	0.25	30.74	46.00	15.26	
7	996.120	24.67	7.71	3.33	35.71	54.00	18.29	

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

```
Site no.     : A/C Chamber                    Data no.  : 2
Dis. / Ant.  : 3m   VBA6106A/UHALP9108A       Ant. pol. : VERTICAL
Limit        : FCC PART-15C
Env. / Ins.  : E4446A 27*C /59%               Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : RX2437(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	16.29	37.95	40.00	2.05	
2	121.180	19.15	2.30	10.23	31.69	43.50	11.81	
3	160.950	20.82	2.70	14.29	37.81	43.50	5.69	
4	443.220	17.62	5.33	6.03	28.98	46.00	17.02	
5	480.080	18.68	6.05	12.92	37.65	46.00	8.35	
6	519.850	19.99	6.90	5.41	32.30	46.00	13.70	
7	747.800	23.11	6.70	-0.21	29.60	46.00	16.40	
8	926.280	24.67	7.43	1.66	33.76	46.00	12.24	

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

802.11n-HT40, Transmit, Frequency: 2422MHz

```
Site no.      : A/C Chamber                  Data no.  : 3
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A     Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C
Env. / Ins.   : E4446A 27*C /59%             Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2422(802.11n-HT40)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	3.44	25.10	40.00	14.90	
2	161.920	20.85	2.70	9.18	32.73	43.50	10.77	
3	302.570	14.73	3.90	14.98	33.61	46.00	12.39	
4	443.220	17.62	5.33	4.46	27.41	46.00	18.59	
5	483.960	18.84	6.14	6.20	31.18	46.00	14.82	
6	518.880	20.01	6.90	0.62	27.53	46.00	18.47	
7	917.550	24.84	7.40	0.95	33.19	46.00	12.81	

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

```
Site no.      : A/C Chamber                  Data no.  : 4
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A     Ant. pol. : VERTICAL
Limit         : FCC PART-15C
Env. / Ins.   : E4446A 27*C /59%             Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2422(802.11n-HT40)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	16.22	37.88	40.00	2.12	
2	120.210	19.08	2.30	10.02	31.40	43.50	12.10	
3	161.920	20.85	2.70	14.19	37.74	43.50	5.76	
4	443.220	17.62	5.33	6.78	29.73	46.00	16.27	
5	481.050	18.74	6.10	13.63	38.47	46.00	7.53	
6	519.850	19.99	6.90	5.25	32.14	46.00	13.86	
7	918.520	24.82	7.40	1.17	33.39	46.00	12.61	

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

802.11n-HT40, Transmit, Frequency: 2437MHz

```
Site no.      : A/C Chamber                Data no.  : 3
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A   Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C
Env. / Ins.   : E4446A 27*C /59%           Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2437(802.11n-HT40)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	3.29	24.95	40.00	15.05	
2	160.950	20.82	2.70	8.74	32.27	43.50	11.23	
3	308.390	14.93	4.00	14.43	33.36	46.00	12.64	
4	443.220	17.62	5.33	4.76	27.71	46.00	18.29	
5	478.140	18.61	6.00	7.05	31.66	46.00	14.34	
6	519.850	19.99	6.90	2.10	28.99	46.00	17.01	
7	861.290	26.09	7.20	-0.80	32.49	46.00	13.51	

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

```
Site no.      : A/C Chamber                Data no.  : 4
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A   Ant. pol. : VERTICAL
Limit         : FCC PART-15C
Env. / Ins.   : E4446A 27*C /59%           Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2437(802.11n-HT40)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	17.25	38.91	40.00	1.09	
2	121.180	19.15	2.30	10.38	31.83	43.50	11.67	
3	161.920	20.85	2.70	14.15	37.70	43.50	5.80	
4	443.220	17.62	5.33	6.64	29.59	46.00	16.41	
5	483.960	18.84	6.14	13.46	38.44	46.00	7.56	
6	518.880	20.01	6.90	5.43	32.34	46.00	13.66	
7	747.800	23.11	6.70	0.29	30.10	46.00	15.90	
8	861.290	26.09	7.20	-0.60	32.69	46.00	13.31	

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

802.11n-HT40, Transmit, Frequency: 2452MHz

Site no. : A/C Chamber   Data no. : 3
Dis. / Ant. : 3m VBA6106A/UHALP9108A   Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59%   Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2452(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	41.640	20.14	1.30	2.58	24.02	40.00	15.98	
2	160.950	20.82	2.70	8.99	32.51	43.50	10.99	
3	306.450	14.94	3.90	13.72	32.56	46.00	13.44	
4	443.220	17.62	5.33	4.49	27.44	46.00	18.56	
5	480.080	18.68	6.05	7.59	32.32	46.00	13.68	
6	519.850	19.99	6.90	0.29	27.18	46.00	18.82	
7	747.800	23.11	6.70	0.50	30.31	46.00	15.69	
8	870.020	25.71	7.20	-1.00	31.91	46.00	14.09	

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

Site no. : A/C Chamber   Data no. : 4
Dis. / Ant. : 3m VBA6106A/UHALP9108A   Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59%   Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2452(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	16.40	38.06	40.00	1.94	
2	121.180	19.15	2.30	9.80	31.26	43.50	12.24	
3	161.920	20.85	2.70	14.00	37.55	43.50	5.95	
4	443.220	17.62	5.33	6.80	29.75	46.00	16.25	
5	481.050	18.74	6.10	13.53	38.37	46.00	7.63	
6	518.880	20.01	6.90	5.45	32.36	46.00	13.64	
7	600.360	21.31	6.30	0.35	27.96	46.00	18.04	
8	964.110	26.80	7.60	0.33	34.73	54.00	19.27	

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

802.11n-HT40, Receive, Frequency: 2437MHz

Site no. : A/C Chamber
Data no. : 1
Dis. / Ant. : 3m VBA6106A/UHALP9108A
Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59%
Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : RX2437(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	4.19	25.85	40.00	14.15	
2	161.920	20.85	2.70	9.27	32.82	43.50	10.68	
3	305.480	14.94	3.90	15.37	34.22	46.00	11.78	
4	443.220	17.62	5.33	5.15	28.10	46.00	17.90	
5	481.050	18.74	6.10	7.10	31.94	46.00	14.06	
6	679.900	22.97	6.40	0.95	30.31	46.00	15.69	
7	803.090	24.20	6.90	1.25	32.35	46.00	13.65	
8	918.520	24.82	7.40	2.06	34.28	46.00	11.72	

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

Site no. : A/C Chamber
Data no. : 2
Dis. / Ant. : 3m VBA6106A/UHALP9108A
Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 27*C /59%
Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : RX2437(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	16.90	38.56	40.00	1.44	
2	120.210	19.08	2.30	10.19	31.57	43.50	11.93	
3	160.950	20.82	2.70	14.24	37.76	43.50	5.74	
4	441.280	17.63	5.30	6.08	29.01	46.00	16.99	
5	481.050	18.74	6.10	14.16	39.00	46.00	7.00	
6	519.850	19.99	6.90	6.09	32.98	46.00	13.02	
7	861.290	26.09	7.20	-1.19	32.10	46.00	13.90	

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

3.6.2. For Above 1GHz Frequency Range Measurement Results

802.11b, Transmit, Frequency: 2412MHz

```
Site no.      : A/C Chamber              Data no.  : 4
Dis. / Ant.   : 3m   3115(3775)          Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 27*C /59%         Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2258.320	27.96	6.17	9.76	43.89	54.00	10.11	Peak
2	2338.960	28.04	6.28	12.73	47.05	54.00	6.95	Peak
1	2735.440	29.09	6.84	15.53	51.46	54.00	2.54	Peak
1	4823.500	32.96	9.14	11.69	53.79	54.00	0.21	Peak

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

```
Site no.      : A/C Chamber              Data no.  : 3
Dis. / Ant.   : 3m   3115(3775)          Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 27*C /59%         Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2254.960	27.96	6.17	11.75	45.88	54.00	8.12	Peak
2	2333.920	28.03	6.27	13.73	48.03	54.00	5.97	Peak
1	2735.440	29.09	6.84	10.38	46.31	54.00	7.69	Peak
1	4828.000	32.96	9.14	8.27	50.36	54.00	3.64	Peak

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

802.11b, Transmit, Frequency: 2437MHz

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2437(802.11b)

Data no. : 2
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2359.120	28.06	6.30	9.74	44.11	54.00	9.89	Peak
1	2680.000	28.90	6.76	14.53	50.18	54.00	3.82	Peak
2	2757.880	29.15	6.88	9.63	45.66	54.00	8.34	Peak

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

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2437(802.11b)

Data no. : 1
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2280.160	27.98	6.20	9.66	43.84	54.00	10.16	Peak
2	2364.160	28.06	6.30	11.42	45.79	54.00	8.21	Peak
1	2682.640	28.90	6.76	12.91	48.57	54.00	5.43	Peak
2	2761.840	29.21	6.88	7.38	43.47	54.00	10.53	Peak

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

802.11b, Transmit, Frequency: 2462MHz

```
Site no.      : A/C Chamber                     Data no.  : 4
Dis. / Ant.   : 3m   3115(3775)                 Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 27*C /59%                Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2462(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2392.720	28.10	6.34	8.71	43.15	54.00	10.85	Peak
1	2705.080	28.96	6.79	11.46	47.21	54.00	6.79	Peak

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

```
Site no.      : A/C Chamber                     Data no.  : 3
Dis. / Ant.   : 3m   3115(3775)                 Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 27*C /59%                Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2462(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2308.720	28.01	6.23	9.54	43.79	54.00	10.21	Peak
1	2705.080	28.96	6.79	9.56	45.31	54.00	8.69	Peak

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

802.11g, Transmit, Frequency: 2412MHz

```
Site no.      : A/C Chamber                    Data no.  : 2
Dis. / Ant.   : 3m   3115(3775)                Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 27*C /59%               Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1003.360	24.30	4.18	13.08	41.56	54.00	12.44	Peak
2	2333.920	28.03	6.27	9.74	44.04	54.00	9.96	Peak
1	2735.440	29.09	6.84	11.49	47.42	54.00	6.58	Peak
2	3217.240	30.51	7.37	8.93	46.81	54.00	7.19	Peak

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

```
Site no.      : A/C Chamber                    Data no.  : 1
Dis. / Ant.   : 3m   3115(3775)                Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 27*C /59%               Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1003.360	24.30	4.18	12.17	40.65	54.00	13.35	Peak
2	2254.960	27.96	6.17	10.33	44.46	54.00	9.54	Peak
3	2338.960	28.04	6.28	11.74	46.06	54.00	7.94	Peak
1	2724.880	29.02	6.83	7.86	43.72	54.00	10.28	Peak
2	3217.240	30.51	7.37	8.58	46.46	54.00	7.54	Peak

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

802.11g, Transmit, Frequency: 2437MHz

```
Site no.       : A/C Chamber                 Data no.  : 1
Dis. / Ant.    : 3m   3115(3775)             Ant. pol. : HORIZONTAL
Limit          : FCC PART-15C (1G-AV)
Env. / Ins.    : E4446A 27*C /59%            Engineer  : Jarwei Wang
EUT            : HID-B70
Power Rating   : 120Vac/60Hz
Test Mode      : TX2437(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1000.000	24.30	4.18	12.60	41.08	54.00	12.92	Peak
2	2359.120	28.06	6.30	10.03	44.40	54.00	9.60	Peak
1	2680.000	28.90	6.76	11.86	47.51	54.00	6.49	Peak
2	3250.240	30.58	7.39	9.00	46.97	54.00	7.03	Peak

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

```
Site no.       : A/C Chamber                 Data no.  : 2
Dis. / Ant.    : 3m   3115(3775)             Ant. pol. : VERTICAL
Limit          : FCC PART-15C (1G-AV)
Env. / Ins.    : E4446A 27*C /59%            Engineer  : Jarwei Wang
EUT            : HID-B70
Power Rating   : 120Vac/60Hz
Test Mode      : TX2437(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1003.360	24.30	4.18	11.19	39.67	54.00	14.33	Peak
2	2359.120	28.06	6.30	11.43	45.80	54.00	8.20	Peak
1	2680.000	28.90	6.76	10.24	45.89	54.00	8.11	Peak
2	3250.240	30.58	7.39	6.47	44.44	54.00	9.56	Peak

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

802.11g, Transmit, Frequency: 2462MHz

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11g)

Data no. : 1
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1000.000	24.30	4.18	12.23	40.71	54.00	13.29	Peak
1	3283.240	30.65	7.44	10.33	48.42	54.00	5.58	Peak

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

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11g)

Data no. : 2
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1003.360	24.30	4.18	12.81	41.29	54.00	12.71	Peak
1	3283.240	30.65	7.44	8.59	46.68	54.00	7.32	Peak

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

802.11n-HT20, Transmit, Frequency: 2412MHz

```
Site no.     : A/C Chamber                Data no.  : 1
Dis. / Ant.  : 3m   3115(3775)            Ant. pol. : HORIZONTAL
Limit        : FCC PART-15C (1G-AV)
Env. / Ins.  : E4446A 27*C /59%           Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2412(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2338.960	28.04	6.28	9.95	44.27	54.00	9.73	Peak
1	3217.240	30.51	7.37	7.07	44.95	54.00	9.05	Peak

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

```
Site no.     : A/C Chamber                Data no.  : 2
Dis. / Ant.  : 3m   3115(3775)            Ant. pol. : VERTICAL
Limit        : FCC PART-15C (1G-AV)
Env. / Ins.  : E4446A 27*C /59%           Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2412(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2342.320	28.04	6.28	10.58	44.91	54.00	9.09	Peak
1	3217.240	30.51	7.37	8.04	45.92	54.00	8.08	Peak

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

802.11n-HT20, Transmit, Frequency: 2437MHz

```
Site no.     : A/C Chamber                 Data no.  : 4
Dis. / Ant.  : 3m   3115(3775)             Ant. pol. : HORIZONTAL
Limit        : FCC PART-15C (1G-AV)
Env. / Ins.  : E4446A 27*C /59%            Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2437(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2359.120	28.06	6.30	9.39	43.76	54.00	10.24	Peak
1	3217.240	30.51	7.37	7.90	45.78	54.00	8.22	Peak

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

```
Site no.     : A/C Chamber                 Data no.  : 3
Dis. / Ant.  : 3m   3115(3775)             Ant. pol. : VERTICAL
Limit        : FCC PART-15C (1G-AV)
Env. / Ins.  : E4446A 27*C /59%            Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2437(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2359.120	28.06	6.30	10.20	44.57	54.00	9.43	Peak
1	3217.240	30.51	7.37	5.18	43.06	54.00	10.94	Peak

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

802.11n-HT20, Transmit, Frequency: 2462MHz

```
Site no.     : A/C Chamber                  Data no.  : 3
Dis. / Ant.  : 3m   3115(3775)              Ant. pol. : HORIZONTAL
Limit        : FCC PART-15C (1G-AV)
Env. / Ins.  : E4446A 27*C /59%             Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2462(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1003.360	24.30	4.18	11.05	39.53	54.00	14.47	Peak

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

```
Site no.     : A/C Chamber                  Data no.  : 4
Dis. / Ant.  : 3m   3115(3775)              Ant. pol. : VERTICAL
Limit        : FCC PART-15C (1G-AV)
Env. / Ins.  : E4446A 27*C /59%             Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2462(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1003.360	24.30	4.18	11.91	40.39	54.00	13.61	Peak

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

802.11n-HT40, Transmit, Frequency: 2422MHz

Site no. : A/C Chamber
Data no. : 2
Dis. / Ant. : 3m 3115(3775)
Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2422(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2112.160	27.80	6.01	10.06	43.87	54.00	10.13	Peak
2	2246.560	27.94	6.16	8.87	42.97	54.00	11.03	Peak

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

Site no. : A/C Chamber
Data no. : 1
Dis. / Ant. : 3m 3115(3775)
Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2422(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2115.520	27.82	6.01	10.72	44.55	54.00	9.45	Peak
2	2254.960	27.96	6.17	11.52	45.65	54.00	8.35	Peak
3	2367.520	28.06	6.31	12.04	46.42	54.00	7.58	Peak

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

802.11n-HT40, Transmit, Frequency: 2437MHz

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2437(802.11n-HT40)

Data no. : 1
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2112.160	27.80	6.01	10.06	43.87	54.00	10.13	Peak
2	2275.120	27.98	6.19	8.66	42.83	54.00	11.17	Peak

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

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2437(802.11n-HT40)

Data no. : 2
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2112.160	27.80	6.01	11.03	44.84	54.00	9.16	Peak
2	2275.120	27.98	6.19	11.61	45.78	54.00	8.22	Peak

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

802.11n-HT40, Transmit, Frequency: 2452MHz

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2452(802.11n-HT40)

Data no. : 2
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2128.960	27.82	6.02	8.87	42.72	54.00	11.28	Peak
2	2280.160	27.98	6.20	9.45	43.63	54.00	10.37	Peak

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

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2452(802.11n-HT40)

Data no. : 1
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2128.960	27.82	6.02	8.76	42.61	54.00	11.39	Peak
2	2300.320	27.99	6.23	10.64	44.86	54.00	9.14	Peak

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

3.6.3. Restricted Bands Measurement Results

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11b, Transmit, Channel: 01, Frequency: 2412MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2333.880	28.03	6.27	14.79	49.09	74.00	24.91
Average *	2389.920	28.10	6.34	1.46	35.90	54.00	18.10

Remark： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2430MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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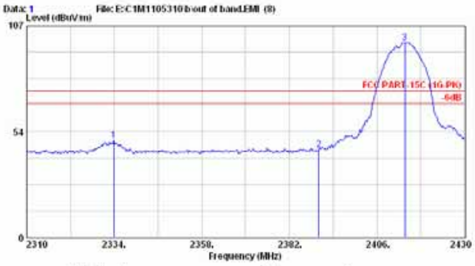
Data: 1 File: E:C1M1105310 b out of band.EMI (8)




```
Site no.     : A/C Chamber              Data no.  : 1
Dis. / Ant.  : 3m   3115(3775)          Ant. pol. : HORIZONTAL
Limit        : FCC PART-15C (1G-PK)
Env. / Ins.  : E4446A 27*C /59%         Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2412(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	
1	2333.880	28.03	6.27	14.79	49.09	74.00	24.91	Peak	
2	2390.040	28.10	6.34	9.97	44.41	74.00	29.59	Peak	
3	2413.680	28.11	6.36	63.99	98.47	74.00	-24.47	Peak	X

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

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Data: 4 File: E:C1M1105310 b out of band.EMI (8)


```
Site no.     : A/C Chamber              Data no.  : 4
Dis. / Ant.  : 3m   3115(3775)          Ant. pol. : HORIZONTAL
Limit        : FCC PART-15C (1G-AV)
Env. / Ins.  : E4446A 27*C /59%         Engineer  : Jarwei Wang
EUT          : HID-B70
Power Rating : 120Vac/60Hz
Test Mode    : TX2412(802.11b)
```

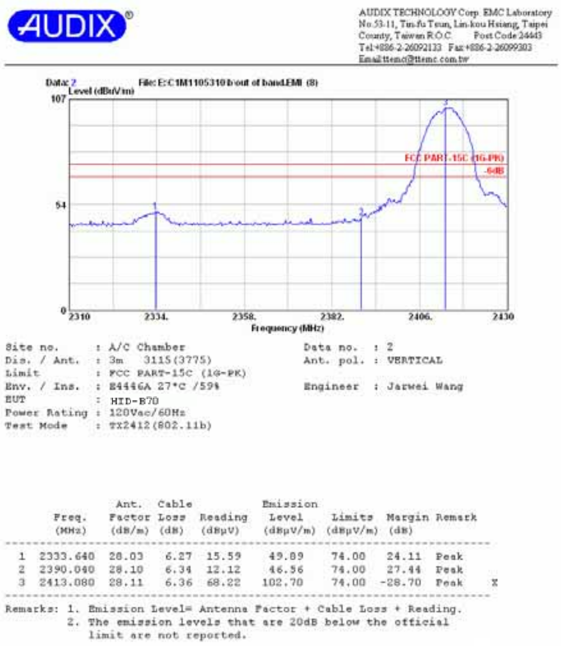
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	1.46	35.90	54.00	18.10	Average
2	2390.040	28.10	6.34	1.77	36.21	54.00	17.79	Average
3	2413.440	28.11	6.36	61.08	95.56	54.00	-41.56	Average X

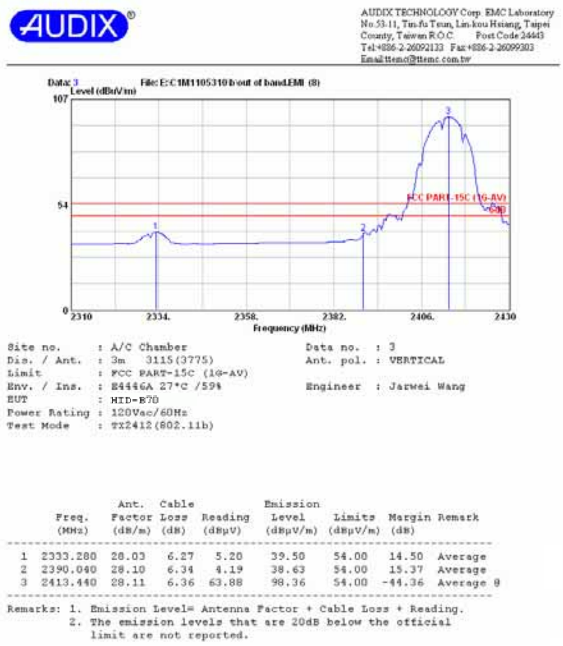
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11b, Transmit, Channel: 01, Frequency: 2412MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2333.640	28.03	6.27	15.59	49.89	74.00	24.11
Average *	2333.280	28.03	6.27	5.20	39.50	54.00	14.50

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2430MHz).
3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

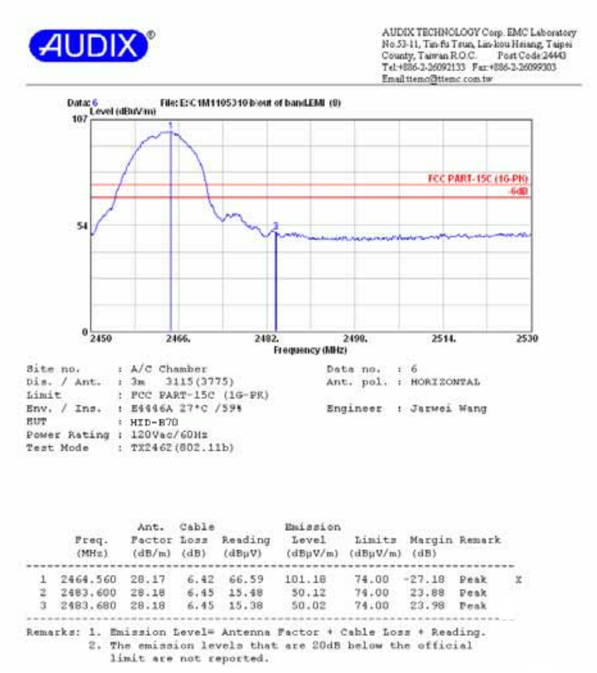




Date of Test：	Jun. 08, 2011		Temperature：	27℃
EUT：	Information Alarm Clock		Humidity：	59%
Test Mode：	802.11b, Transmit, Channel: 11, Frequency: 2462MHz			

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2483.600	28.18	6.45	15.48	50.11	74.00	23.89
Average *	2483.600	28.18	6.45	7.09	41.72	54.00	12.28

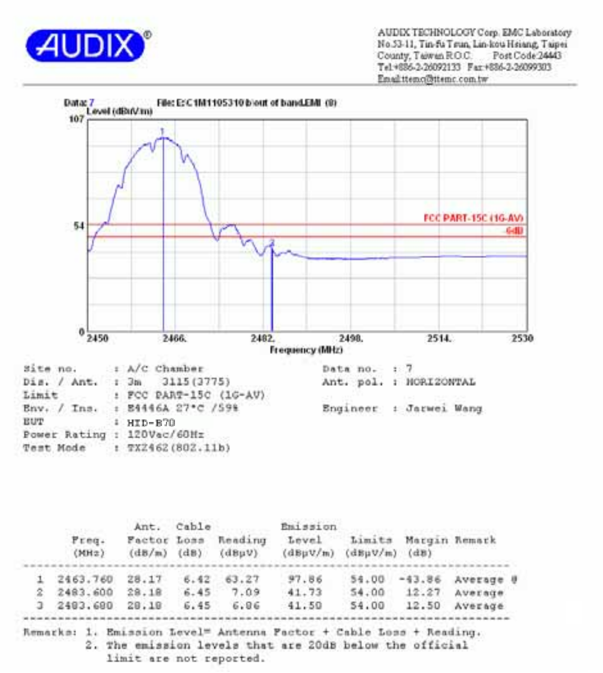
Remark：
1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2450-2530MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11b)
Data no. : 6
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	
1	2464.560	28.17	6.42	66.59	101.18	74.00	-27.18	Peak	X
2	2483.600	28.18	6.45	15.48	50.12	74.00	23.88	Peak	
3	2483.680	28.18	6.45	15.38	50.02	74.00	23.98	Peak	

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



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11b)
Data no. : 7
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

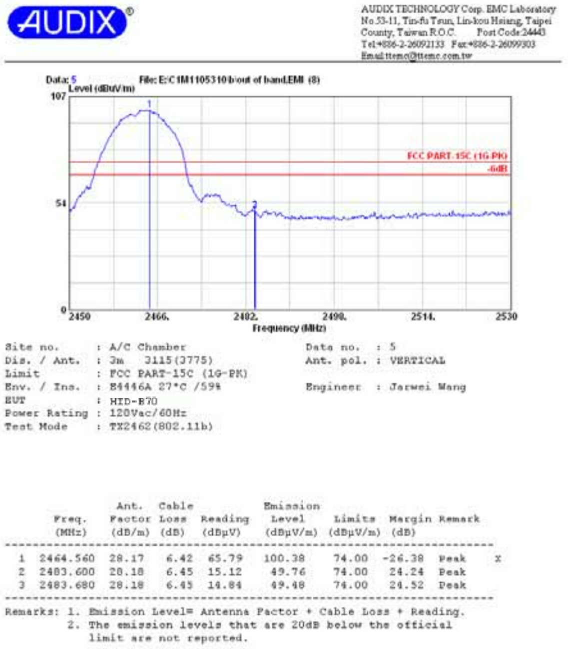
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2463.760	28.17	6.42	63.27	97.86	54.00	-43.86	Average @
2	2483.600	28.18	6.45	7.09	41.73	54.00	12.27	Average
3	2483.680	28.18	6.45	6.86	41.50	54.00	12.50	Average

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

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11b, Transmit, Channel: 11, Frequency: 2462MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2483.600	28.18	6.45	15.12	49.75	74.00	24.25
Average *	2483.600	28.18	6.45	5.46	40.09	54.00	13.91

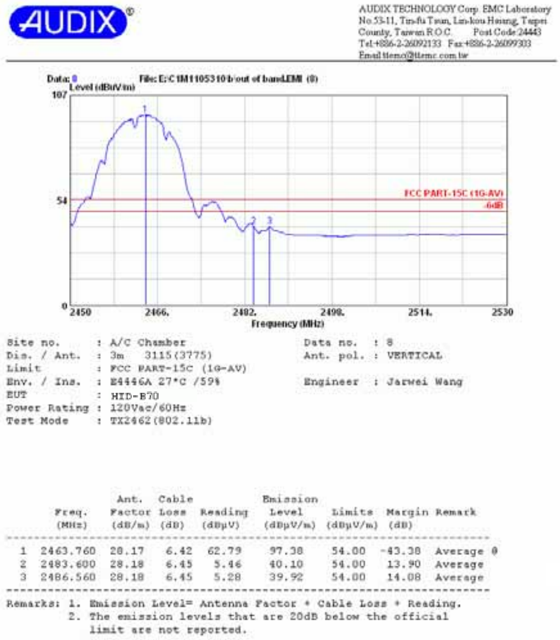
Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2450-2530MHz).
3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11b)
Data no. : 5
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	
1	2464.560	28.17	6.42	65.79	100.38	74.00	-26.38	Peak	x
2	2483.600	28.18	6.45	15.12	49.76	74.00	24.24	Peak	
3	2483.680	28.18	6.45	14.84	49.48	74.00	24.52	Peak	

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



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11b)
Data no. : 8
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2463.760	28.17	6.42	62.79	97.38	54.00	-43.38	Average @
2	2483.600	28.18	6.45	5.46	40.10	54.00	13.90	Average
3	2486.560	28.18	6.45	5.28	39.92	54.00	14.08	Average

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

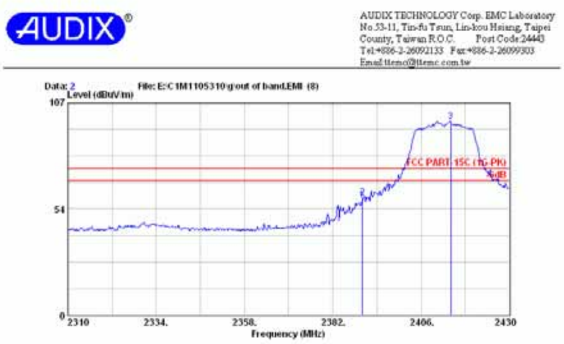
Date of Test： Jun. 08, 2011   Temperature： 27℃

EUT： Information Alarm Clock   Humidity： 59%

Test Mode： 802.11g, Transmit, Channel: 01, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2389.920	28.10	6.34	23.43	57.87	74.00	16.13
Average *	2389.920	28.10	6.34	9.57	44.01	54.00	9.99

Remark：
1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2430MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Site no. : A/C Chamber   Data no. : 2
Dis. / Ant. : 3m 3115(3775)   Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 27°C /59%   Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2412(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	
1	2389.920	28.10	6.34	23.43	57.87	74.00	16.13	Peak	
2	2390.040	28.10	6.34	24.72	59.16	74.00	14.84	Peak	
3	2414.040	28.11	6.36	63.21	97.69	74.00	-23.69	Peak	X

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

Site no. : A/C Chamber   Data no. : 3
Dis. / Ant. : 3m 3115(3775)   Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27°C /59%   Engineer : Jarwei Wang
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2412(802.11g)

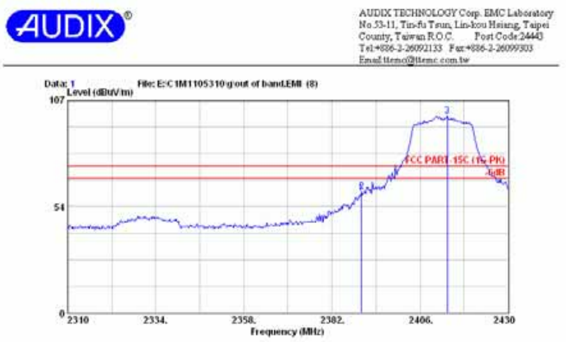
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	
1	2389.920	28.10	6.34	9.57	44.01	54.00	9.99	Average	
2	2390.040	28.10	6.34	9.71	44.15	54.00	9.85	Average	
3	2413.080	28.11	6.36	50.24	84.72	54.00	-30.72	Average	X

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

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11g, Transmit, Channel: 01, Frequency: 2412MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBµV	Emission Level Vertical dBµV/m	Limits dBµV/m	Margin dB
Peak *	2389.920	28.10	6.34	25.84	60.28	74.00	13.72
Average *	2389.920	28.10	6.34	10.76	45.20	54.00	8.80

Remark ：1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2430MHz).
3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.




```
Site no.      : A/C Chamber              Data no.  : 1
Dis. / Ant.   : 3m   3115(3775)          Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 27*C /59%         Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark	
1	2389.920	28.10	6.34	25.84	60.28	74.00	13.72	Peak	
2	2390.040	28.10	6.34	26.78	61.22	74.00	12.78	Peak	
3	2413.440	28.11	6.36	64.65	99.13	74.00	-25.13	Peak	X

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


```
Site no.      : A/C Chamber              Data no.  : 4
Dis. / Ant.   : 3m   3115(3775)          Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 27*C /59%         Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	10.76	45.20	54.00	8.80	Average
2	2390.040	28.10	6.34	10.89	45.33	54.00	8.67	Average
3	2412.840	28.11	6.36	51.55	86.03	54.00	-32.03	Average @

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

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11g, Transmit, Channel: 11, Frequency: 2462MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBµV	Emission Level Horizontal dBµV/m	Limits dBµV/m	Margin dB
Peak *	2483.920	28.18	6.45	26.63	61.26	74.00	12.74
Average *	2483.600	28.18	6.45	11.82	46.45	54.00	7.55

Remark：
1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2450-2530MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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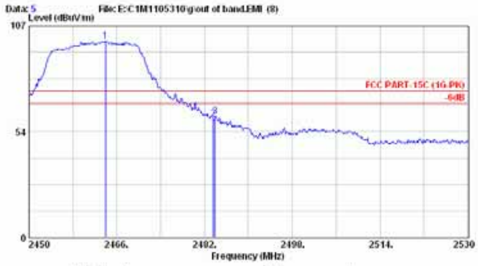
Email:ttemc@ttemc.com.tw

Data: 5 File: E:\C1M1105310\g\out of band.EMI (8)



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11g)

Data no. : 5
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark	
1	2463.920	28.17	6.42	64.66	99.25	74.00	-25.25	Peak	X
2	2483.600	28.18	6.45	25.15	59.79	74.00	14.21	Peak	
3	2483.920	28.18	6.45	26.63	61.26	74.00	12.74	Peak	

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

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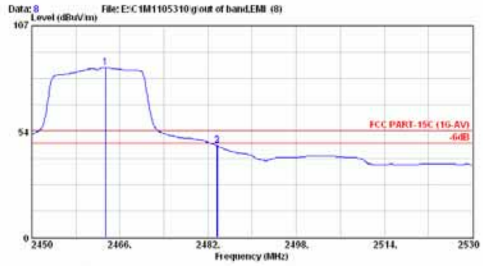
Data: 8 File: E:\C1M1105310\g\out of band.EMI (8)



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11g)

Data no. : 8
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

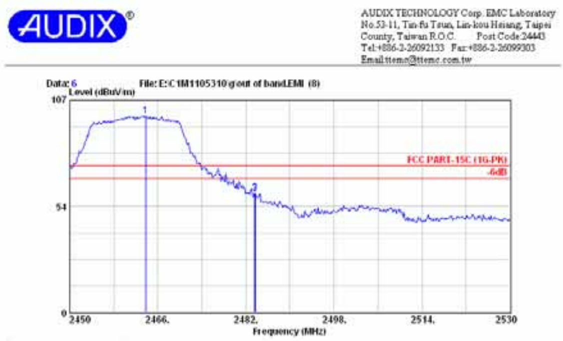
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2463.360	28.17	6.42	51.33	85.92	54.00	-31.92	Average @
2	2483.600	28.18	6.45	11.82	46.45	54.00	7.55	Average
3	2483.680	28.18	6.45	11.74	46.37	54.00	7.63	Average

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

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11g, Transmit, Channel: 11, Frequency: 2462MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2483.600	28.18	6.45	25.70	60.33	74.00	13.67
Average *	2483.600	28.18	6.45	10.73	45.36	54.00	8.64

Remark：
1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2450-2530MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11g)
Data no. : 6
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	
1	2463.760	28.17	6.42	64.39	98.98	74.00	-24.98	Peak	X
2	2483.600	28.18	6.45	25.70	60.34	74.00	13.66	Peak	
3	2483.680	28.18	6.45	25.50	60.14	74.00	13.86	Peak	

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

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11g)
Data no. : 7
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2463.120	28.17	6.42	52.36	86.95	54.00	-32.95	Average @
2	2483.600	28.18	6.45	10.73	45.37	54.00	8.63	Average
3	2483.600	28.18	6.45	10.65	45.29	54.00	8.71	Average

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

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11n-HT20, Transmit, Channel: 01, Frequency: 2412MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2389.920	28.10	6.34	25.87	60.31	74.00	13.69
Average *	2389.920	28.10	6.34	9.75	44.19	54.00	9.81

Remark： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2430MHz).
3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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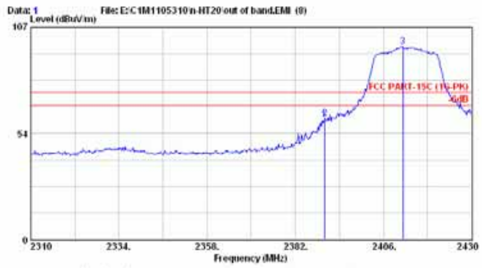

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2412(802.11n-HT20)

Data no. : 1
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	
1	2389.920	28.10	6.34	25.87	60.31	74.00	13.69	Peak	
2	2390.040	28.10	6.34	26.62	61.06	74.00	12.94	Peak	
3	2411.280	28.11	6.36	62.78	97.26	74.00	-23.26	Peak	@

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

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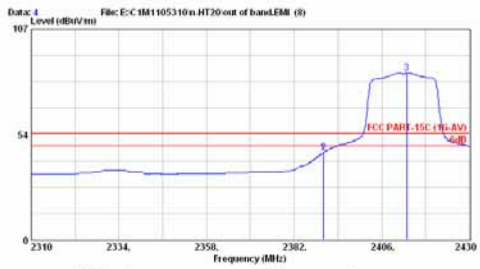


Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2412(802.11n-HT20)

Data no. : 4
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

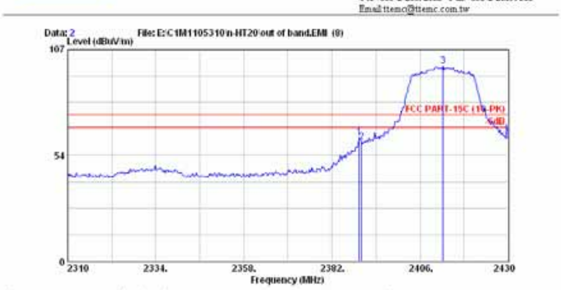
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	
1	2389.920	28.10	6.34	9.75	44.18	54.00	9.82	Average	
2	2390.040	28.10	6.34	9.88	44.32	54.00	9.68	Average	
3	2412.840	28.11	6.36	50.35	84.83	54.00	-30.83	Average	@

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

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11n-HT20, Transmit, Channel: 01, Frequency: 2412MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2389.440	28.10	6.34	28.08	62.52	74.00	11.48
Average *	2389.920	28.10	6.34	10.66	45.10	54.00	8.90

Remark：
1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2430MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

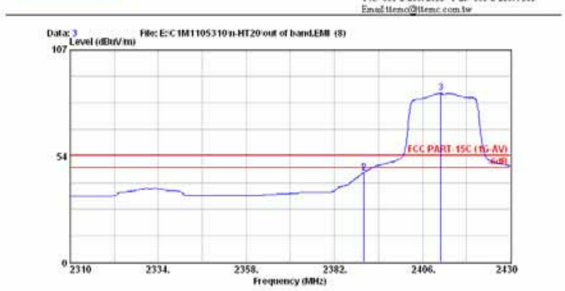


Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2412(802.11n-HT20)

Data no. : 2
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	
1	2389.440	28.10	6.34	28.08	62.52	74.00	11.48	Peak	
2	2390.040	28.10	6.34	26.04	60.48	74.00	13.52	Peak	
3	2412.240	28.11	6.36	64.37	98.85	74.00	-24.85	Peak	@

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



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2412(802.11n-HT20)

Data no. : 3
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	10.66	45.10	54.00	8.90	Average
2	2390.040	28.10	6.34	10.78	45.22	54.00	8.78	Average
3	2411.040	28.11	6.36	50.78	85.26	54.00	-31.26	Average @

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

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11n-HT20, Transmit, Channel: 11, Frequency: 2462MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2483.600	28.18	6.45	24.07	58.70	74.00	15.30
Average *	2483.600	28.18	6.45	10.19	44.82	54.00	9.18

Remark：
1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2450-2530MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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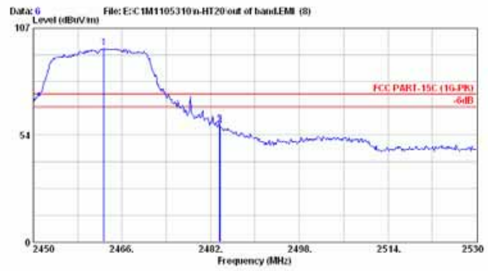

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11n-HT20)

Data no. : 6
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	
1	2462.720	28.17	6.42	62.60	97.19	74.00	-23.19	Peak	X
2	2483.600	28.18	6.45	24.07	58.70	74.00	15.30	Peak	
3	2483.680	28.18	6.45	23.34	57.97	74.00	16.03	Peak	

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

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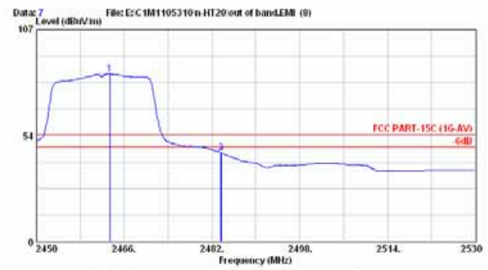


Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11n-HT20)

Data no. : 7
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

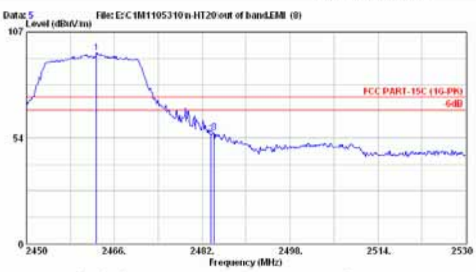
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2463.360	28.17	6.42	49.97	84.56	54.00	-30.56	Average @
2	2483.600	28.18	6.45	10.19	44.83	54.00	9.17	Average
3	2483.680	28.18	6.45	10.14	44.78	54.00	9.22	Average

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

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11n-HT20, Transmit, Channel: 11, Frequency: 2462MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2484.160	28.18	6.45	21.56	56.19	74.00	17.81
Average *	2483.600	28.18	6.45	7.88	42.51	54.00	11.49

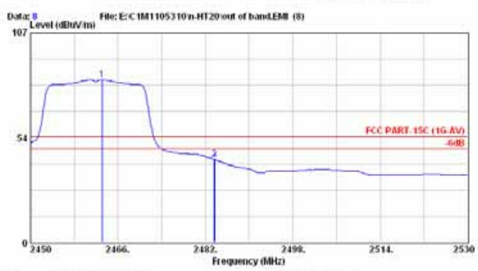
Remark ：
1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2450-2530MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11n-HT20)
Data no. : 5
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	
1	2462.720	28.17	6.42	61.91	96.50	74.00	-22.50	Peak	X
2	2483.600	28.18	6.45	20.45	55.09	74.00	18.91	Peak	
3	2484.160	28.18	6.45	21.56	56.19	74.00	17.81	Peak	

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



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11n-HT20)
Data no. : 8
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2463.120	28.17	6.42	48.55	83.14	54.00	-29.14	Average @
2	2483.600	28.18	6.45	7.88	42.51	54.00	11.49	Average
3	2483.680	28.18	6.45	7.82	42.45	54.00	11.55	Average

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

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11n-HT40, Transmit, Channel: 03, Frequency: 2422MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBµV	Emission Level Horizontal dBµV/m	Limits dBµV/m	Margin dB
Peak *	2385.180	28.08	6.33	23.64	58.05	74.00	15.95
Average *	2389.940	28.10	6.34	10.58	45.02	54.00	8.98

Remark：
1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2450MHz).
3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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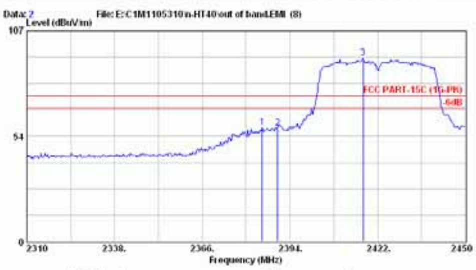
Data: 2 File: E:C1M1105310 n-HT40 out of band.EMI (8)



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2422(802.11n-HT40)

Data no. : 2
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark	
1	2385.180	28.08	6.33	23.64	58.05	74.00	15.95	Peak	
2	2390.080	28.10	6.34	23.28	57.72	74.00	16.28	Peak	
3	2417.380	28.11	6.37	58.81	93.30	74.00	-19.30	Peak	X

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

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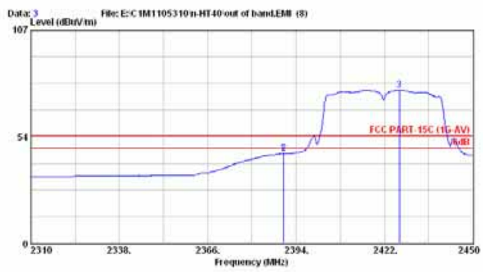
Data: 3 File: E:C1M1105310 n-HT40 out of band.EMI (8)



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27*C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2422(802.11n-HT40)

Data no. : 3
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

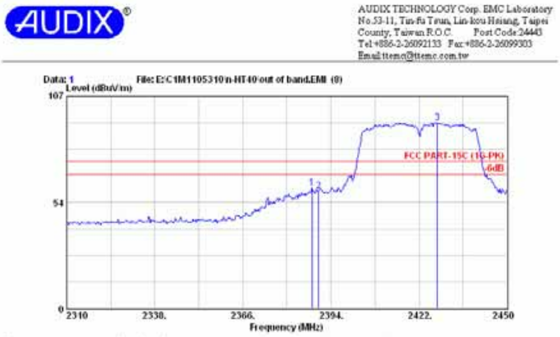
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark	
1	2389.940	28.10	6.34	10.58	45.02	54.00	8.98	Average	
2	2390.080	28.10	6.34	10.64	45.08	54.00	8.92	Average	
3	2426.760	28.13	6.38	42.35	76.86	54.00	-22.86	Average	X

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

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11n-HT40, Transmit, Channel: 03, Frequency: 2422MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2387.980	28.10	6.34	26.27	60.71	74.00	13.29
Average *	2389.940	28.10	6.34	11.78	46.22	54.00	7.78

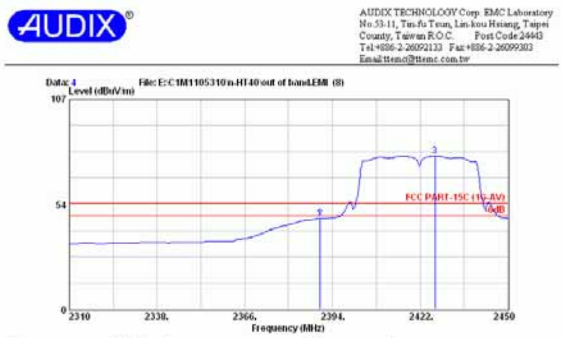
Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2450MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.




```
Site no.      : A/C Chamber              Data no.  : 1
Dis. / Ant.   : 3m   3115(3775)          Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 27*C /59%         Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2422(802.11n-HT40)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	
1	2387.980	28.10	6.34	26.27	60.71	74.00	13.29	Peak	
2	2390.000	28.10	6.34	24.75	59.19	74.00	14.81	Peak	
3	2427.880	28.13	6.38	59.35	93.86	74.00	-19.86	Peak	X

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




```
Site no.      : A/C Chamber              Data no.  : 4
Dis. / Ant.   : 3m   3115(3775)          Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 27*C /59%         Engineer  : Jarwei Wang
EUT           : HID-B70
Power Rating  : 120Vac/60Hz
Test Mode     : TX2422(802.11n-HT40)
```

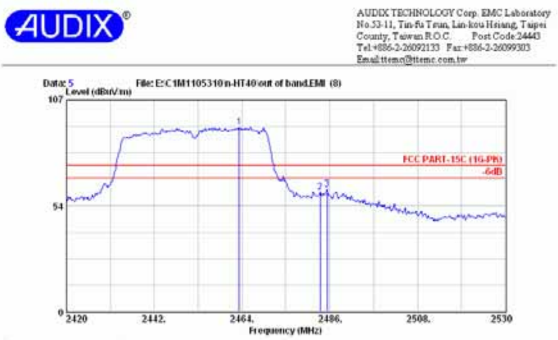
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.940	28.10	6.34	11.78	46.22	54.00	7.78	Average
2	2390.080	28.10	6.34	11.84	46.28	54.00	7.72	Average
3	2426.760	28.13	6.38	43.66	78.17	54.00	-24.17	Average @

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

Date of Test：	Jun. 08, 2011	Temperature：	27℃
EUT：	Information Alarm Clock	Humidity：	59%
Test Mode：	802.11n-HT40, Transmit, Channel: 9, Frequency: 2452MHz		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBµV	Emission Level Horizontal dBµV/m	Limits dBµV/m	Margin dB
Peak *	2485.340	28.18	6.45	27.26	61.89	74.00	12.11
Average *	2484.570	28.18	6.45	11.00	45.63	54.00	8.37

Remark ：
1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2420-2530MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2452(802.11n-HT40)

Data no. : 5
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark	
1	2463.340	28.17	6.42	58.82	93.41	74.00	-19.41	Peak	X
2	2483.500	28.18	6.45	25.53	60.17	74.00	13.83	Peak	
3	2485.340	28.18	6.45	27.26	61.90	74.00	12.10	Peak	

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

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 27°C /59%
EUT : HID-B70
Power Rating : 120Vac/60Hz
Test Mode : TX2452(802.11n-HT40)

Data no. : 8
Ant. pol. : HORIZONTAL
Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark	
1	2456.520	28.17	6.42	42.50	77.09	54.00	-23.09	Average	X
2	2483.580	28.18	6.45	10.93	45.56	54.00	8.44	Average	
3	2484.570	28.18	6.45	11.00	45.63	54.00	8.37	Average	

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

Date of Test：	Jun. 08, 2011		Temperature：	27℃
EUT：	Information Alarm Clock		Humidity：	59%
Test Mode：	802.11n-HT40, Transmit, Channel: 9, Frequency: 2452MHz			

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2485.120	28.18	6.45	25.51	60.14	74.00	13.86
Average *	2483.580	28.18	6.45	9.55	44.18	54.00	9.82

Remark：1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2420-2530MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

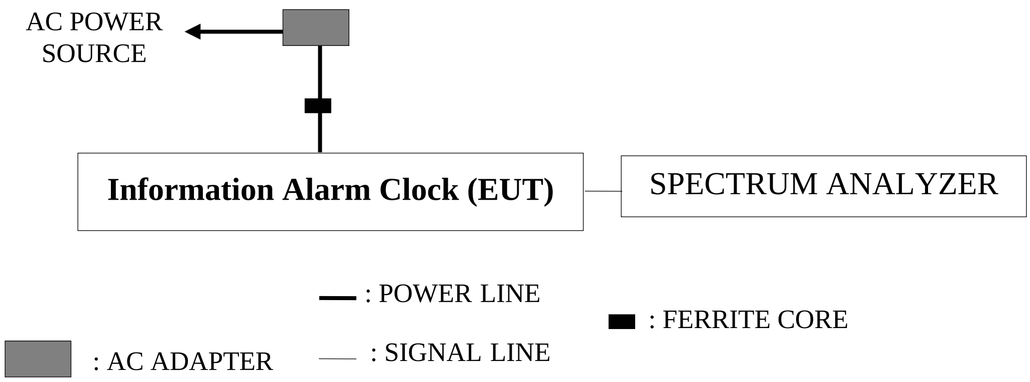
4. 6dB BANDWIDTH MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10’	Aug. 03, 11’

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.247(a)(2))

The minimum 6dB bandwidth shall be at least 500kHz.

4.4. Operating Condition of EUT

The test program “Hyerterminal” was used to enable the EUT to transmit data at different channel frequency individually.

4.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.
The measurement guideline was according to KDB 558074.

4.6. Test Results

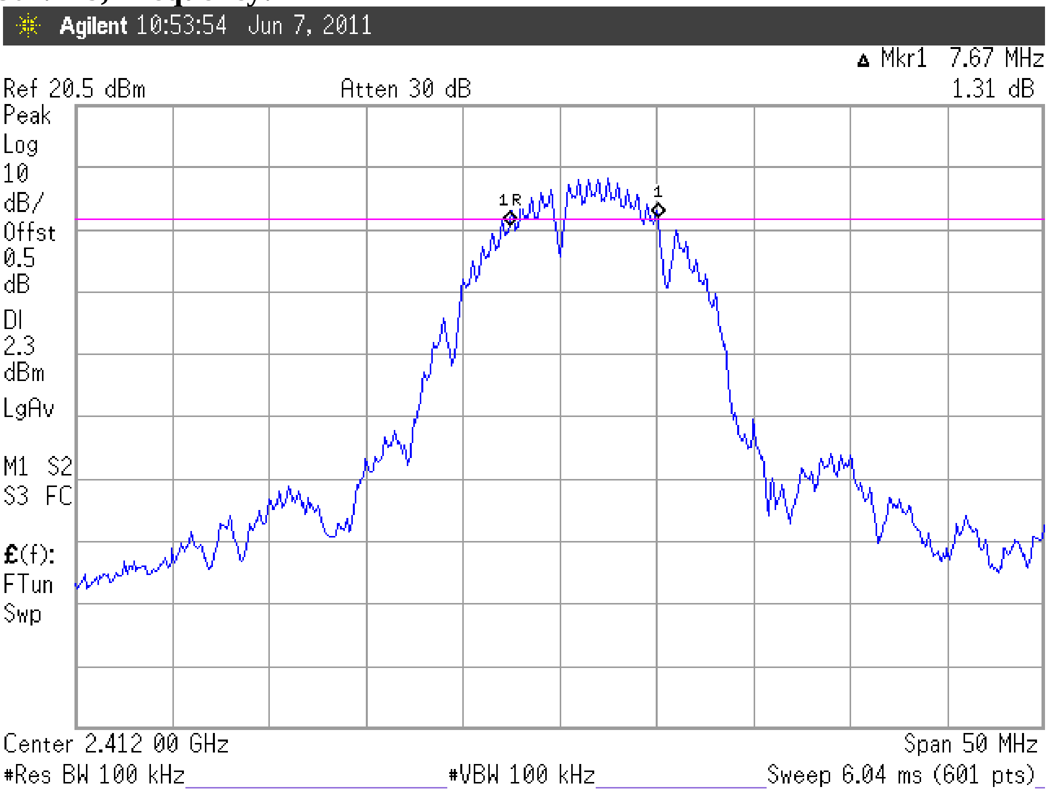
PASSED. All the test results are attached in next pages.

(Test Date: Jun. 07, 2011 Temperature : 26℃ Humidity : 51%)

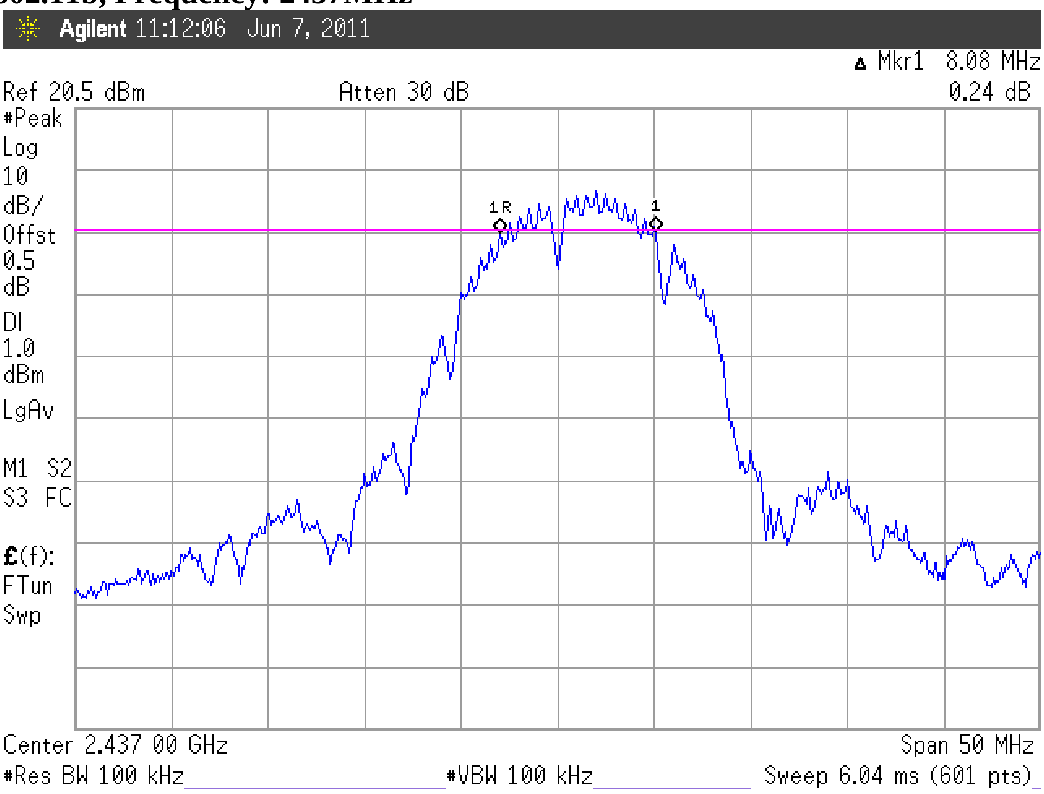
Mode	Type of Network	Channel	Frequency	6dB Bandwidth
1.	802.11b	CH 1	2412MHz	**7.67MHz**
2.		CH 6	2437MHz	**8.08MHz**
3.		CH 11	2462MHz	**8.00MHz**
4.	802.11g	CH 1	2412MHz	**15.67MHz**
5.		CH 6	2437MHz	**15.50MHz**
6.		CH 11	2462MHz	**15.58MHz**
7.	802.11n-HT20	CH 1	2412MHz	**15.58MHz**
8.		CH 6	2437MHz	**15.83MHz**
9.		CH 11	2462MHz	**15.42MHz**
10.	802.11n-HT40	CH 3	2422MHz	**35.47MHz**
11.		CH 6	2437MHz	**35.47MHz**
12.		CH 9	2452MHz	**35.60MHz**

[Limit: least 500kHz]

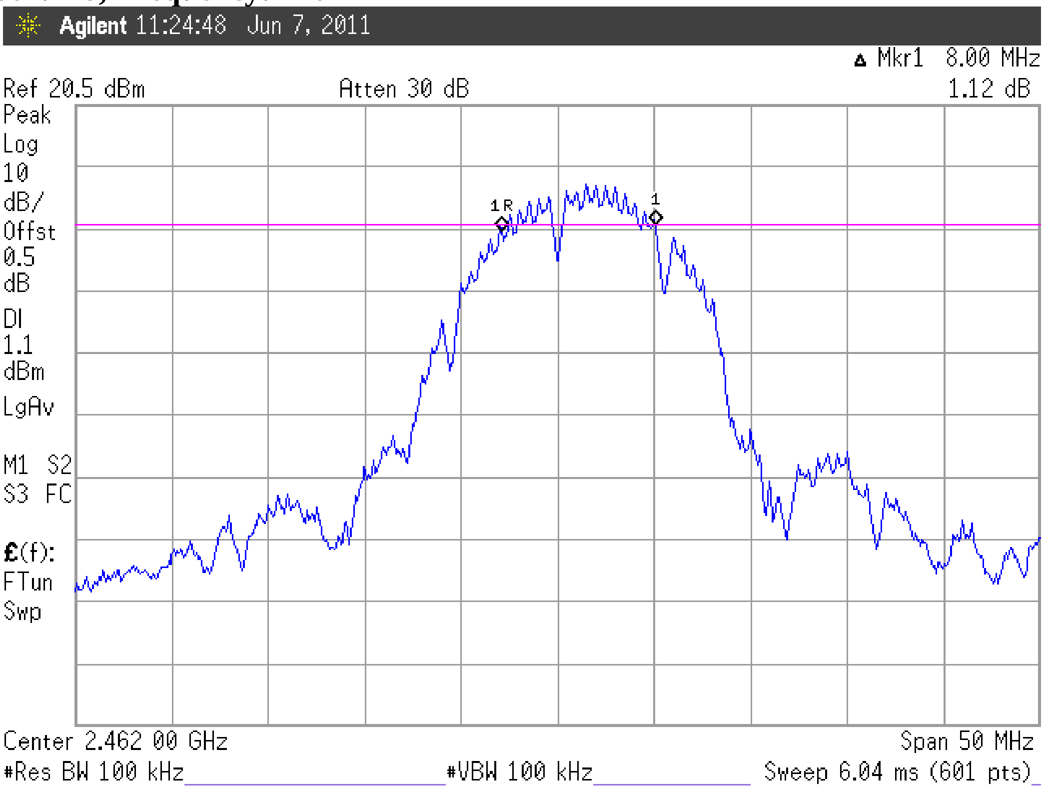
802.11b, Frequency: 2412MHz



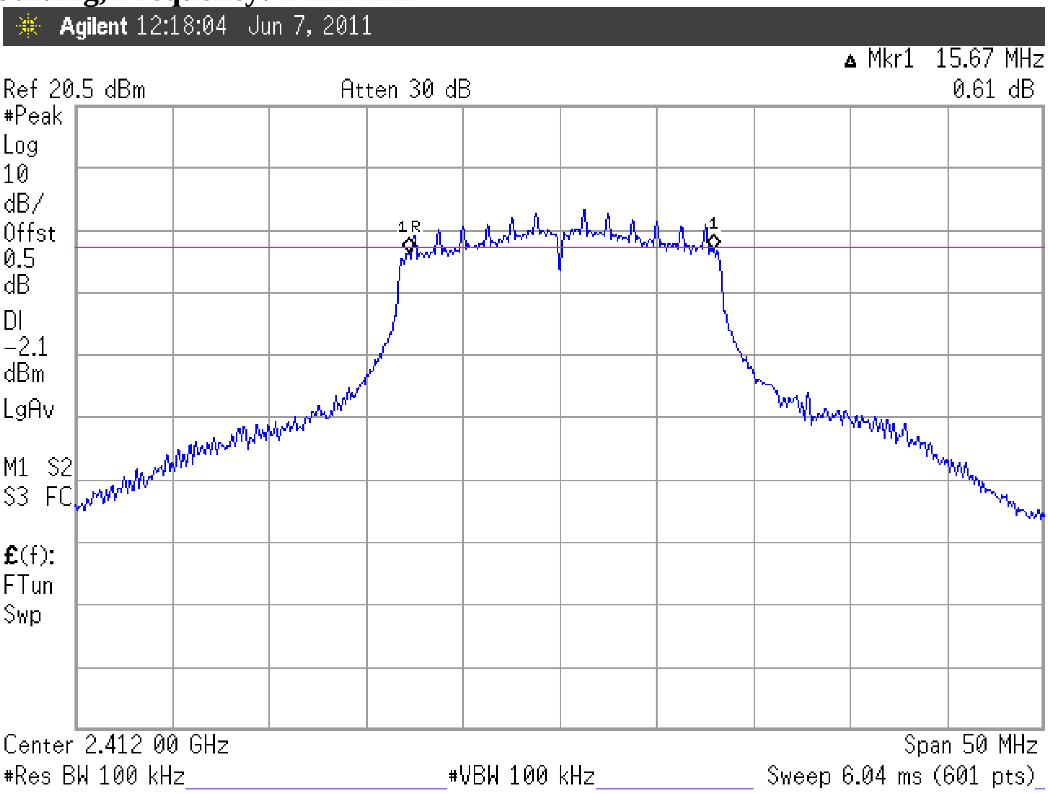
802.11b, Frequency: 2437MHz



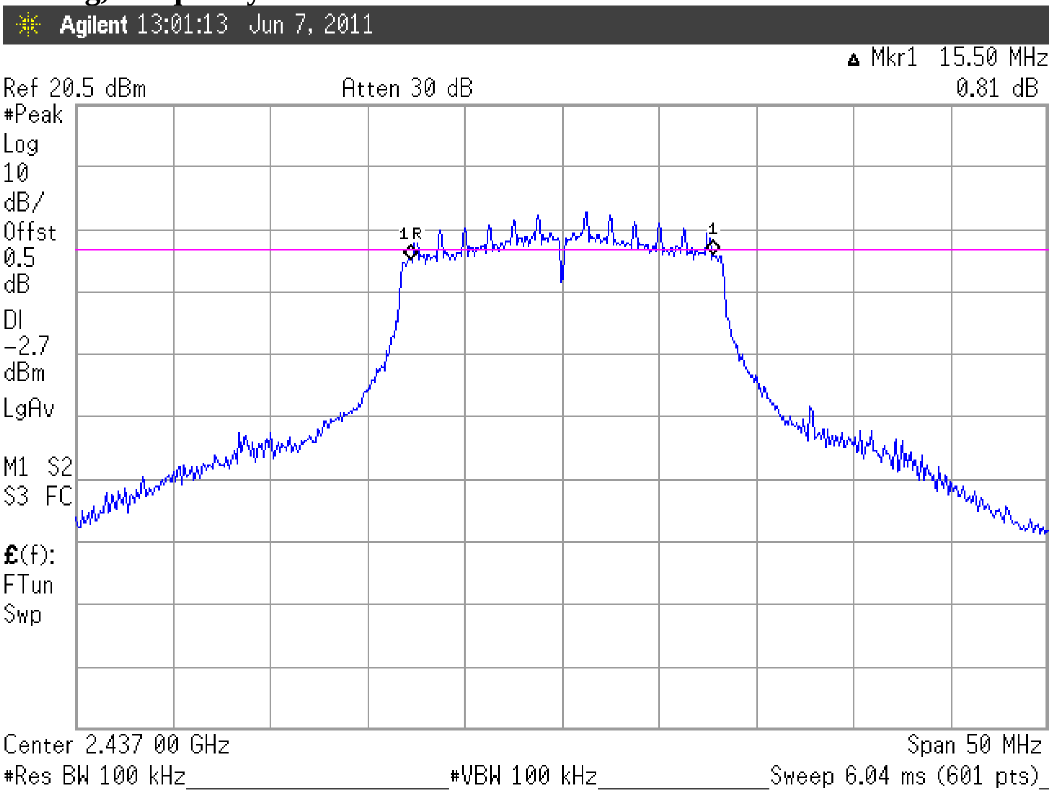
802.11b, Frequency: 2462MHz



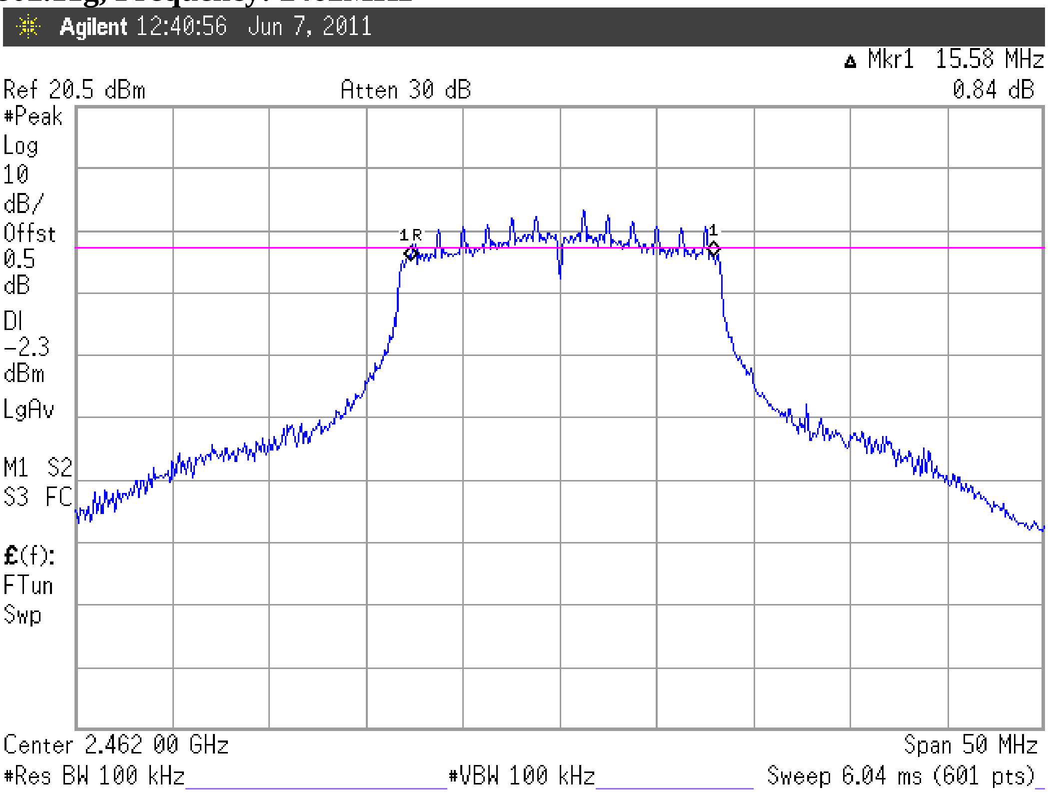
802.11g, Frequency: 2412MHz



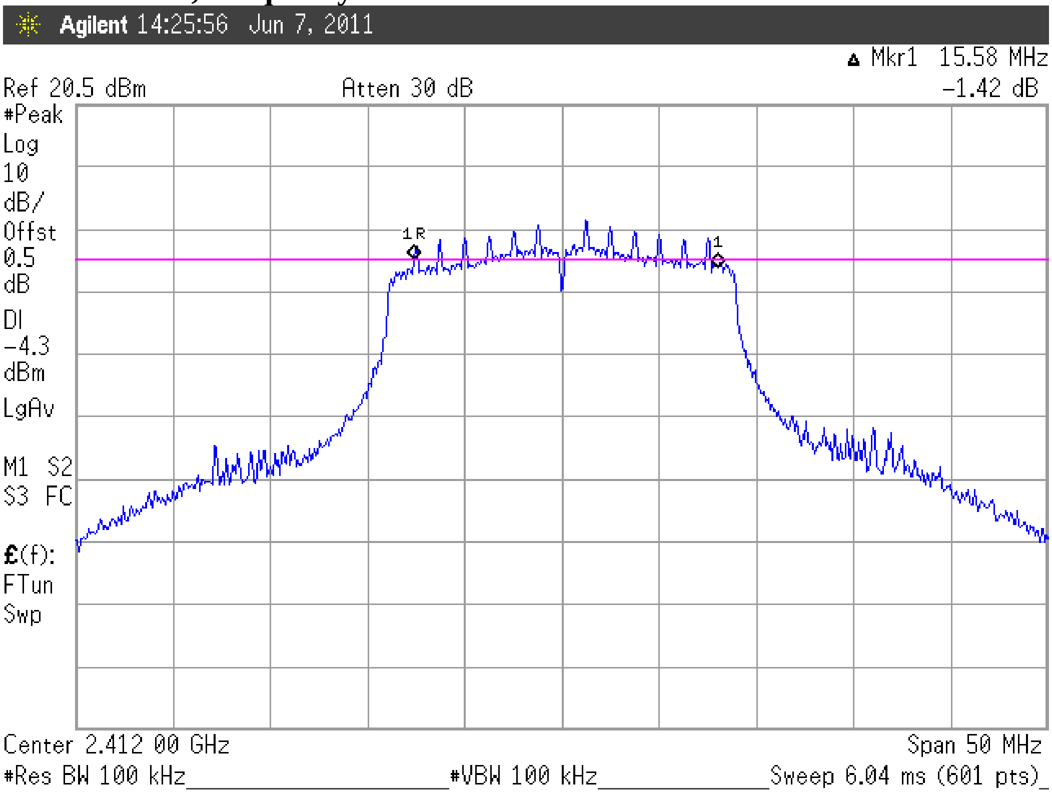
802.11g, Frequency: 2437MHz



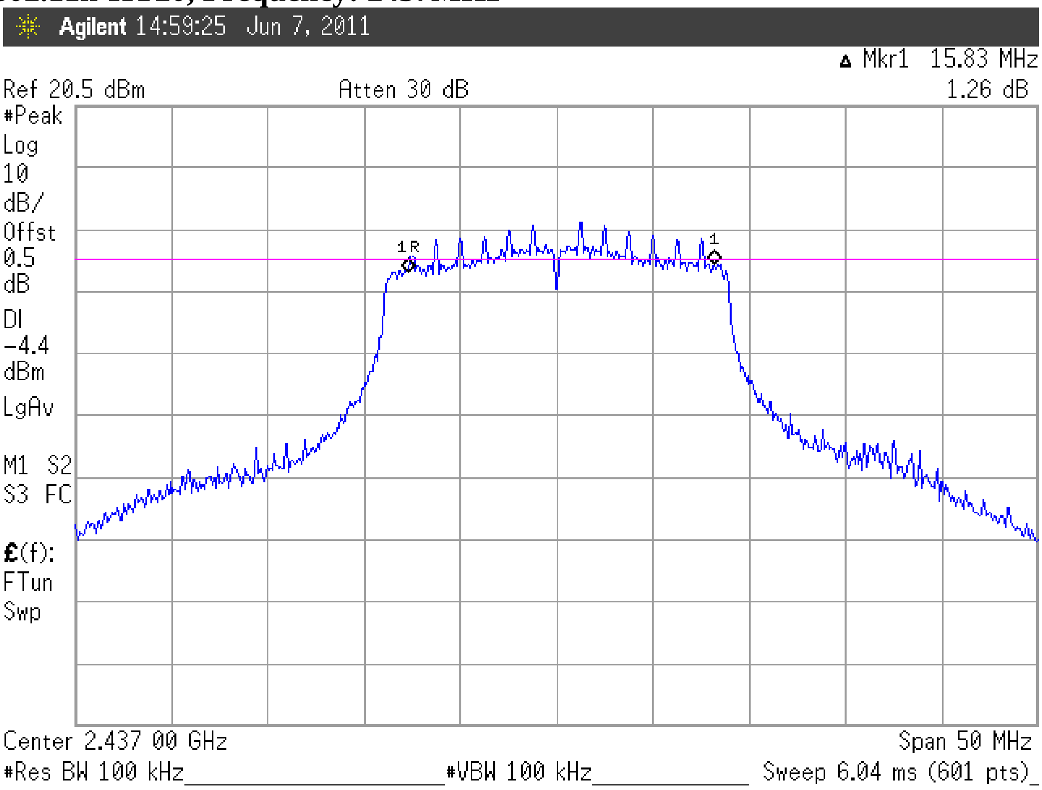
802.11g, Frequency: 2462MHz



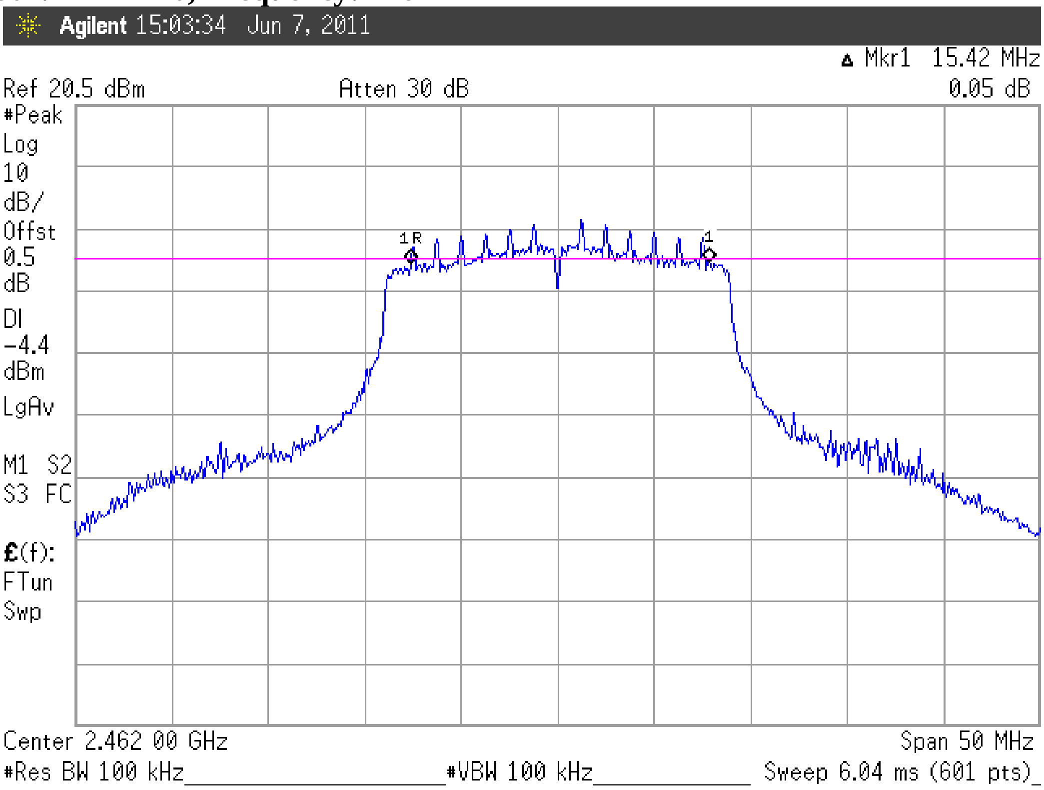
802.11n-HT20, Frequency: 2412MHz



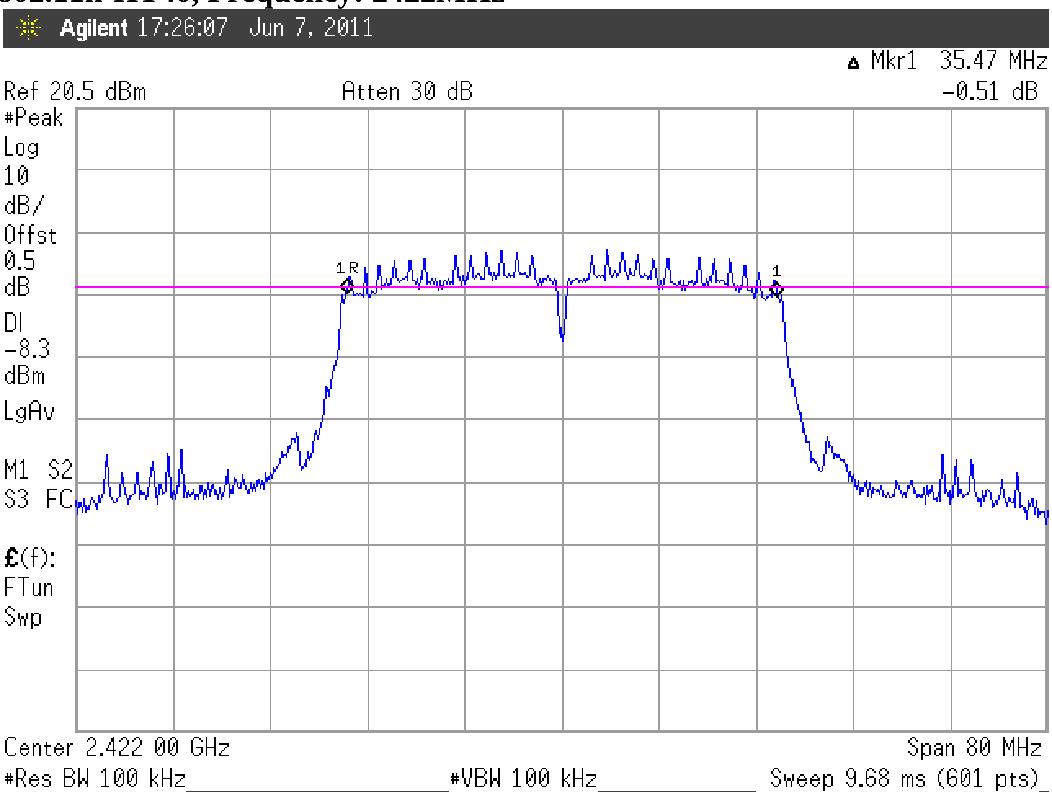
802.11n-HT20, Frequency: 2437MHz



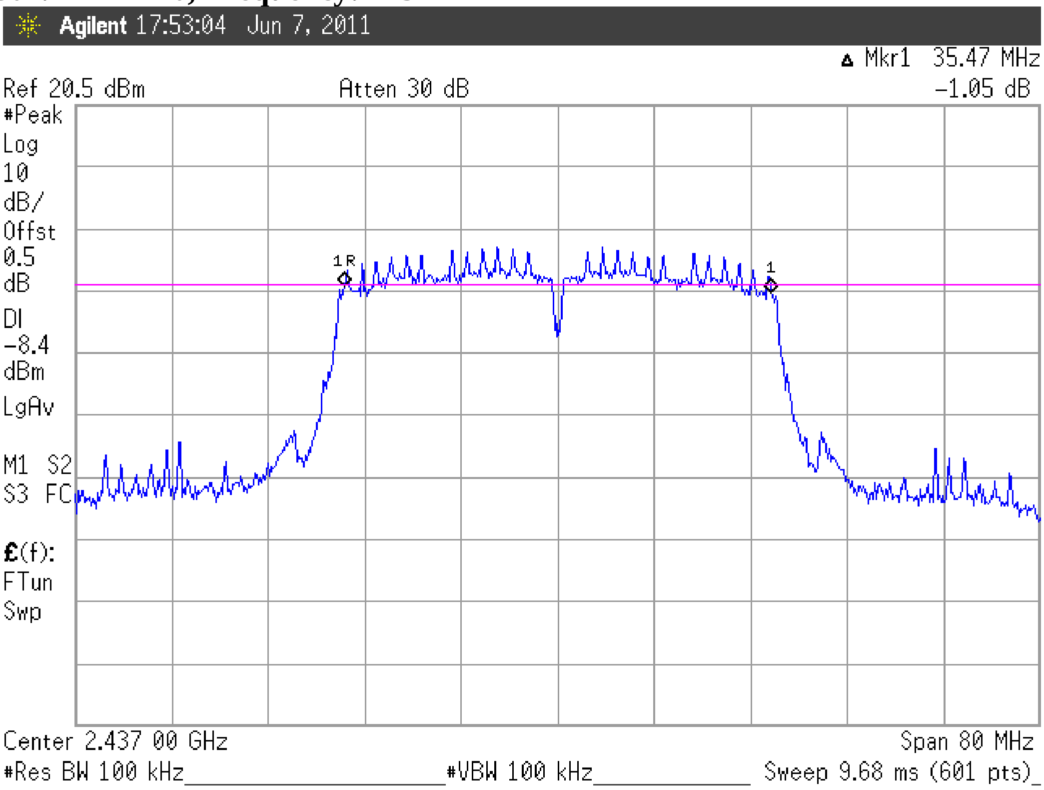
802.11n-HT20, Frequency: 2462MHz



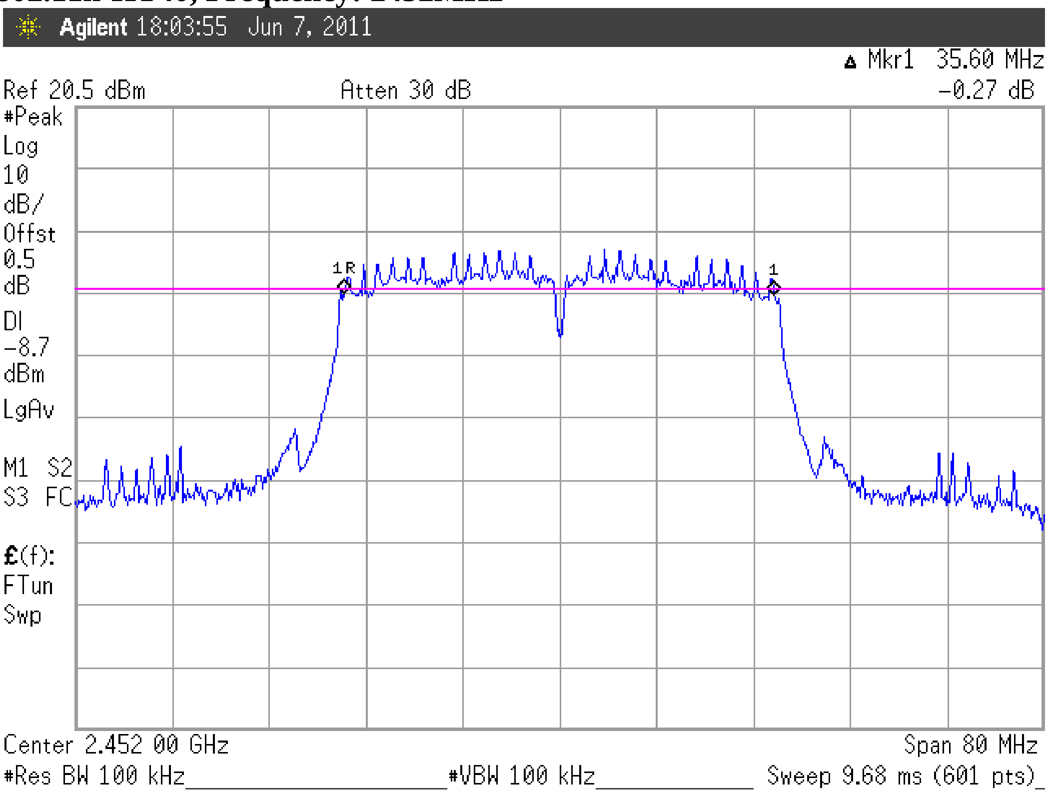
802.11n-HT40, Frequency: 2422MHz



802.11n-HT40, Frequency: 2437MHz



802.11n-HT40, Frequency: 2452MHz



5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

5.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

5.1.1. For 802.11b/802.11g/802.11n-HT20

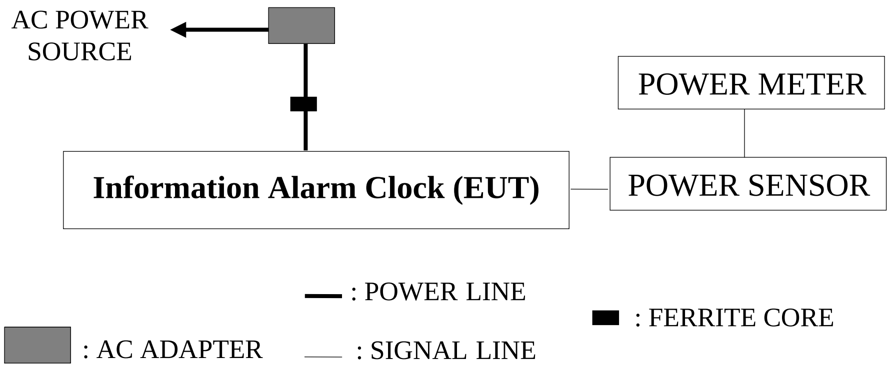
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2487A	6K00005406	Feb. 11, 11’	Feb. 10, 12’
2.	Power Sensor	Anritsu	MA2491A	030873	Feb. 11, 11’	Feb. 10, 12’

5.1.2. For 802.11n-HT40

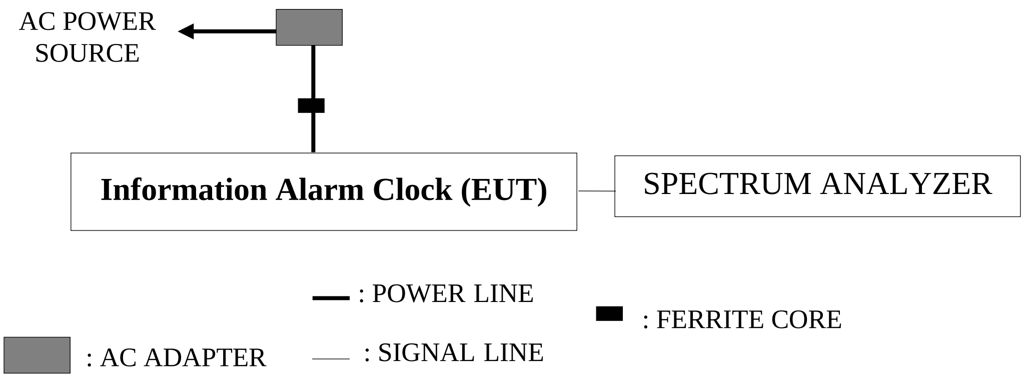
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10’	Aug. 03, 11’

5.2. Block Diagram of Test Setup

5.2.1. For 802.11b/802.11g/802.11n-HT20



5.2.2. For 802.11n-HT40



5.3. Specification Limits (§15.247(b)-(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm)

5.4. Operating Condition of EUT

The test program “Hyerterminal” was used to enable the EUT to transmit data at different channel frequency individually.

5.5. Test Procedure

5.5.1. For 802.11b/802.11g/802.11n-HT20

The EUT connected to power meter and sensor and record the peak value.

5.5.2. For 802.11n-HT40

Setting the spectrum span to encompass the EBW, RBW=1MHz and VBW=3MHz. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
The measurement guideline was according to KDB 558074.

5.6. Test Results

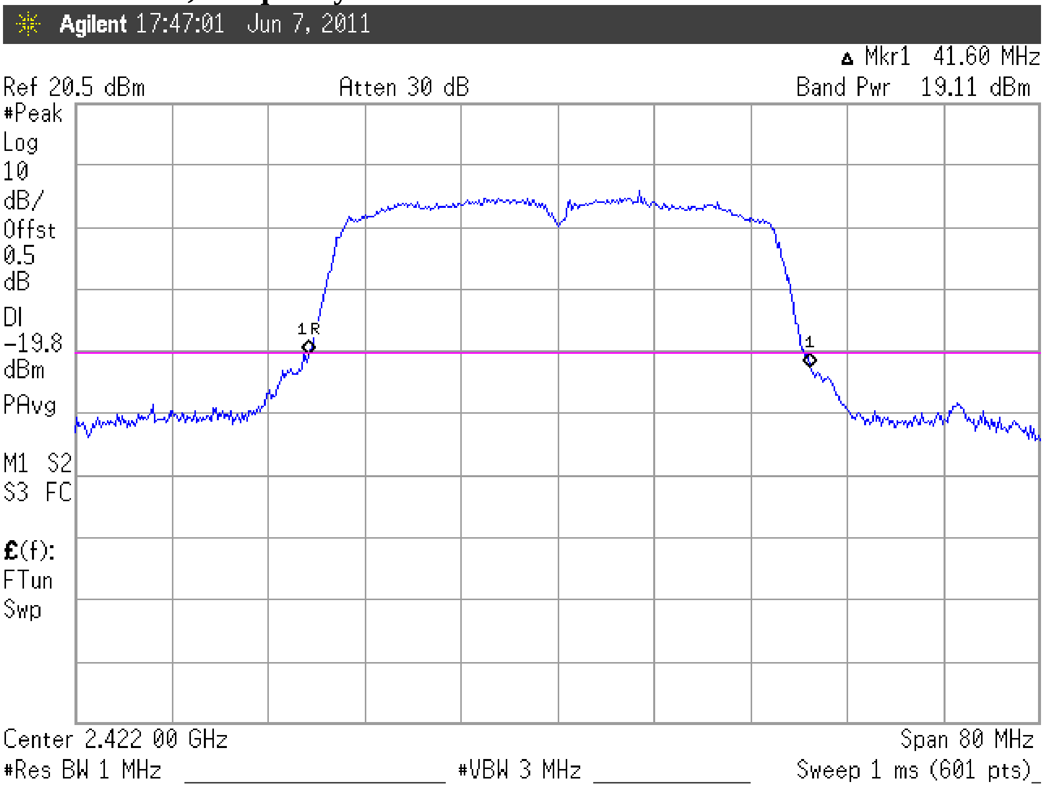
PASSED. All the test results are listed below.

(Test Date: Jun. 07, 2011 Temperature : 26℃ Humidity : 51%)

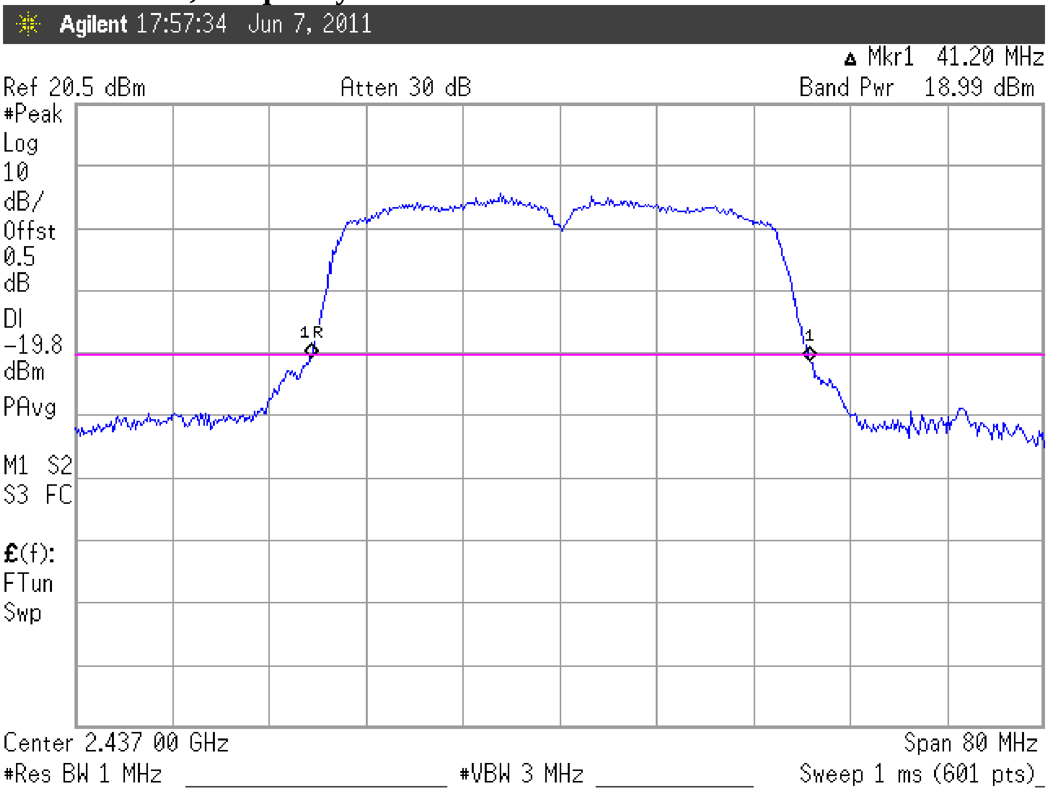
Mode	Type of Network	Channel	Frequency	**Peak Output Power (dBm)**
1.	802.11b	CH 1	2412MHz	**19.05dBm**
2.		CH 6	2437MHz	**17.27dBm**
3.		CH 11	2462MHz	**18.01dBm**
4.	802.11g	CH 1	2412MHz	**22.34dBm**
5.		CH 6	2437MHz	**22.27dBm**
6.		CH 11	2462MHz	**22.05dBm**
7.	802.11n-HT20	CH 1	2412MHz	**20.69dBm**
8.		CH 6	2437MHz	**20.44dBm**
9.		CH 11	2462MHz	**20.64dBm**
10.	802.11n-HT40	CH 3	2422MHz	**19.11dBm**
11.		CH 6	2437MHz	**18.99dBm**
12.		CH 9	2452MHz	**19.06dBm**

[Limit: 1Watt. (30dBm)]

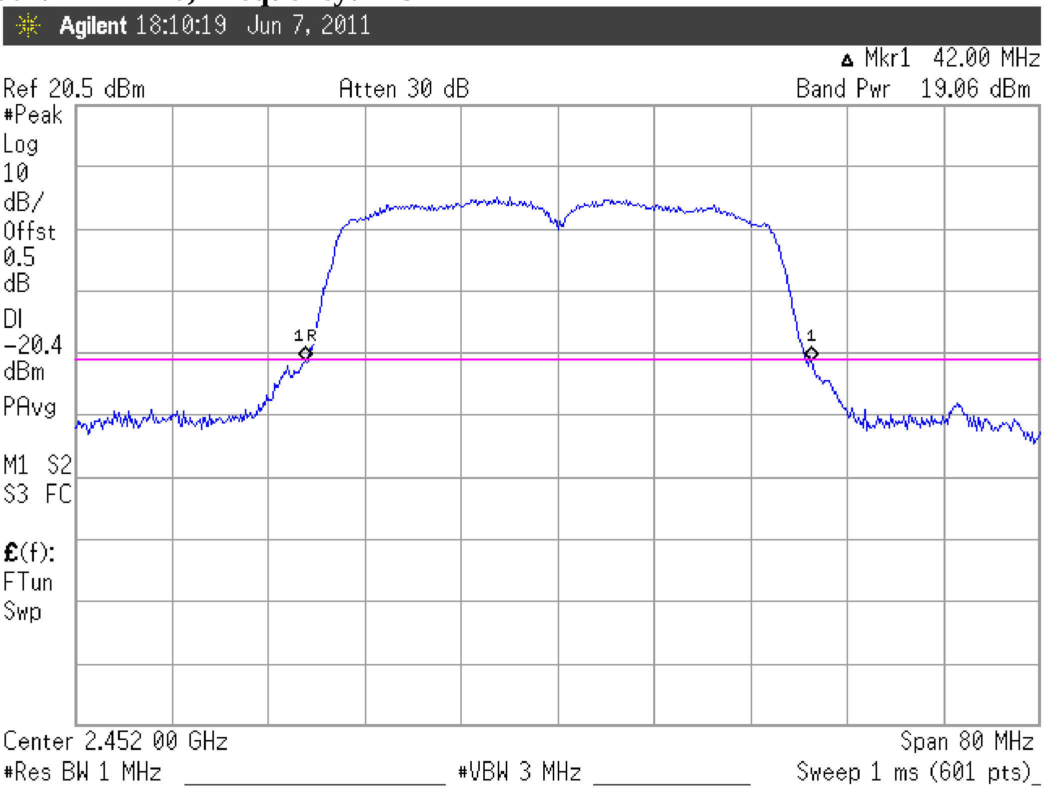
802.11n-HT40, Frequency: 2422MHz



802.11n-HT40, Frequency: 2437MHz



802.11n-HT40, Frequency: 2452MHz



6. EMISSION LIMITATIONS MEASUREMENT

6.1. Test Equipment

The following test equipment was used during the emission limitations test：

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10’	Aug. 03, 11’

6.2. Block Diagram of Test Setup

The same as section.4.2.

6.3. Specification Limits (§15.247(c))

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (See Section 15.205(c)).(※ This test result attaching to §3.6.3)

6.4. Operating Condition of EUT

The test program “Hyerterminal” was used to enable the EUT to transmit data at different channel frequency individually.

6.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW.
The measurement guideline was according to KDB 558074.

6.6. Test Results

PASSED. The testing data was attached in the next pages.

(Test Date: Jun. 07, 2011 Temperature : 26℃ Humidity : 51%)

802.11b

2412MHz: During 30MHz~25GHz bandwidth. In the 2.575GHz, the -38.79dBm is max value that is lower than 20dB of primary channel.

2437MHz: During 30MHz~25GHz bandwidth. In the 2.600GHz, the –40.73dBm is max value that is lower than 20dB of primary channel.

2462MHz: During 30MHz~25GHz bandwidth. In the 2.625GHz, the –41.63dBm is max value that is lower than 20dB of primary channel.

802.11g

2412MHz: During 30MHz~25GHz bandwidth. In the 2.570GHz, the –43.58dBm is max value that is lower than 20dB of primary channel.

2437MHz: During 30MHz~25GHz bandwidth. In the 2.600GHz, the –43.76dBm is max value that is lower than 20dB of primary channel.

2462MHz: During 30MHz~25GHz bandwidth. In the 2.625GHz, the –44.51dBm is max value that is lower than 20dB of primary channel.

802.11n-,HT20

2412MHz: During 30MHz~25GHz bandwidth. In the 2.575GHz, the –44.51dBm is max value that is lower than 20dB of primary channel.

2437MHz: During 30MHz~25GHz bandwidth. In the 2.600GHz, the –46.23dBm is max value that is lower than 20dB of primary channel.

2462MHz: During 30MHz~25GHz bandwidth. In the 2.545GHz, the –46.45dBm is max value that is lower than 20dB of primary channel.

802.11n-HT40

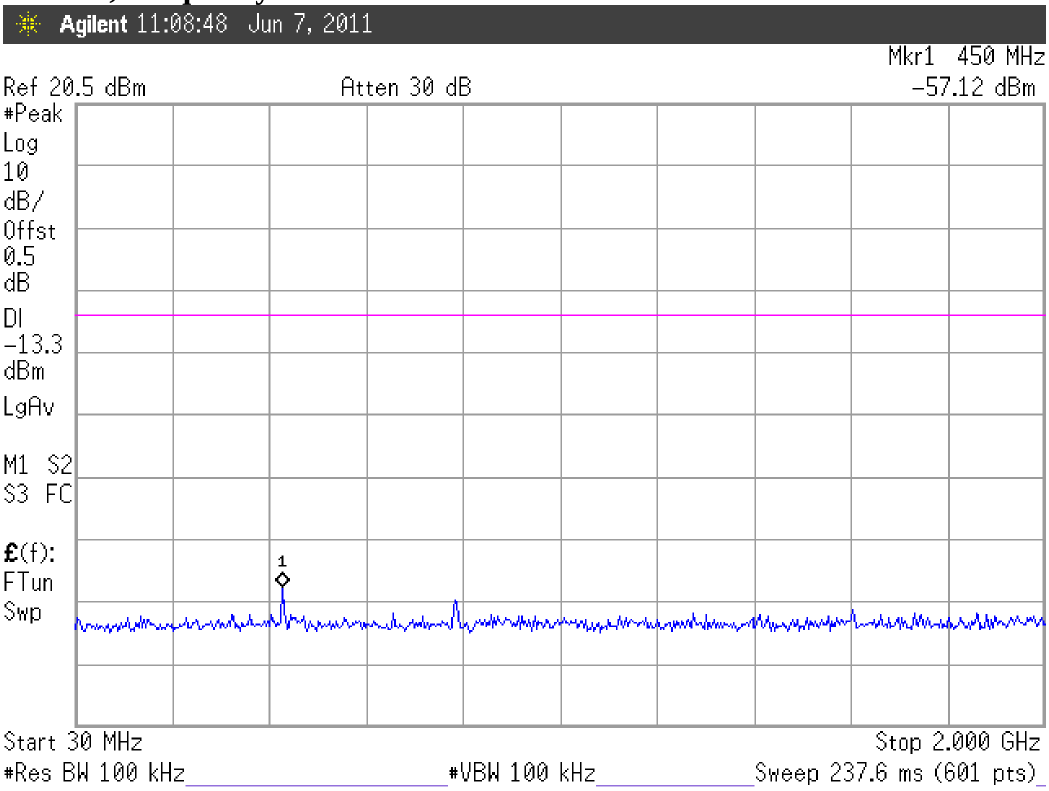
2422MHz: During 30MHz~25GHz bandwidth. In the 2.255GHz, the –48.22dBm is max value that is lower than 20dB of primary channel.

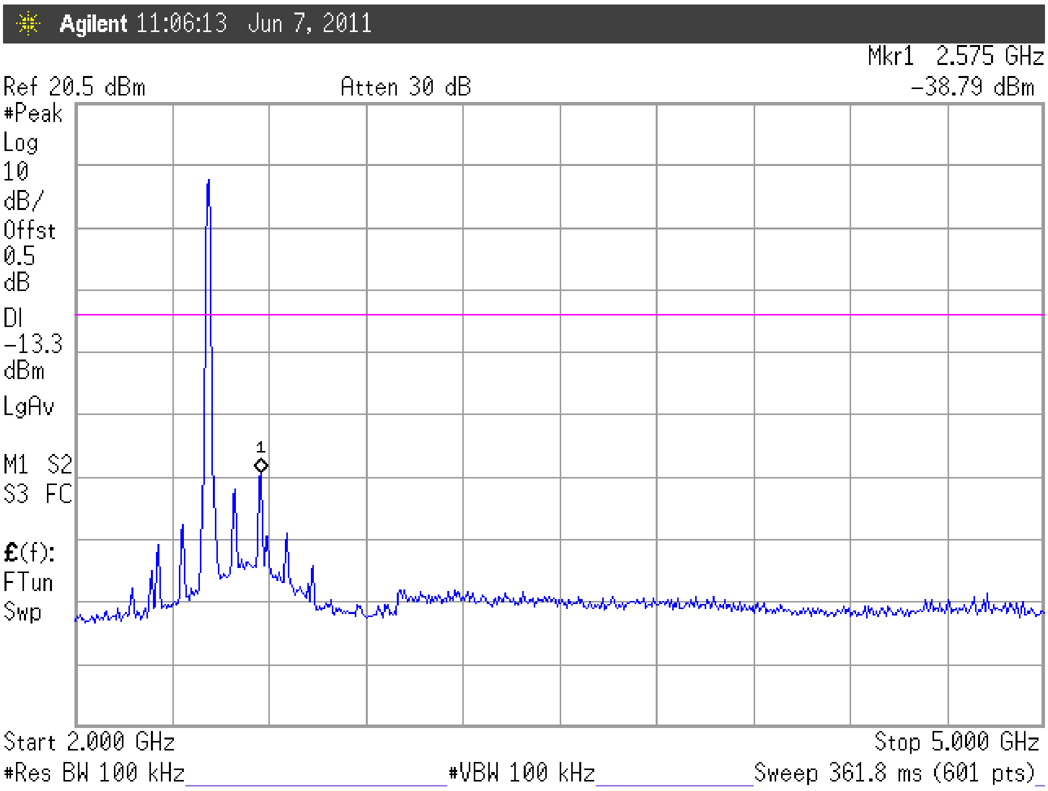
2437MHz: During 30MHz~25GHz bandwidth. In the 2.275GHz, the –49.28dBm is max value that is lower than 20dB of primary channel.

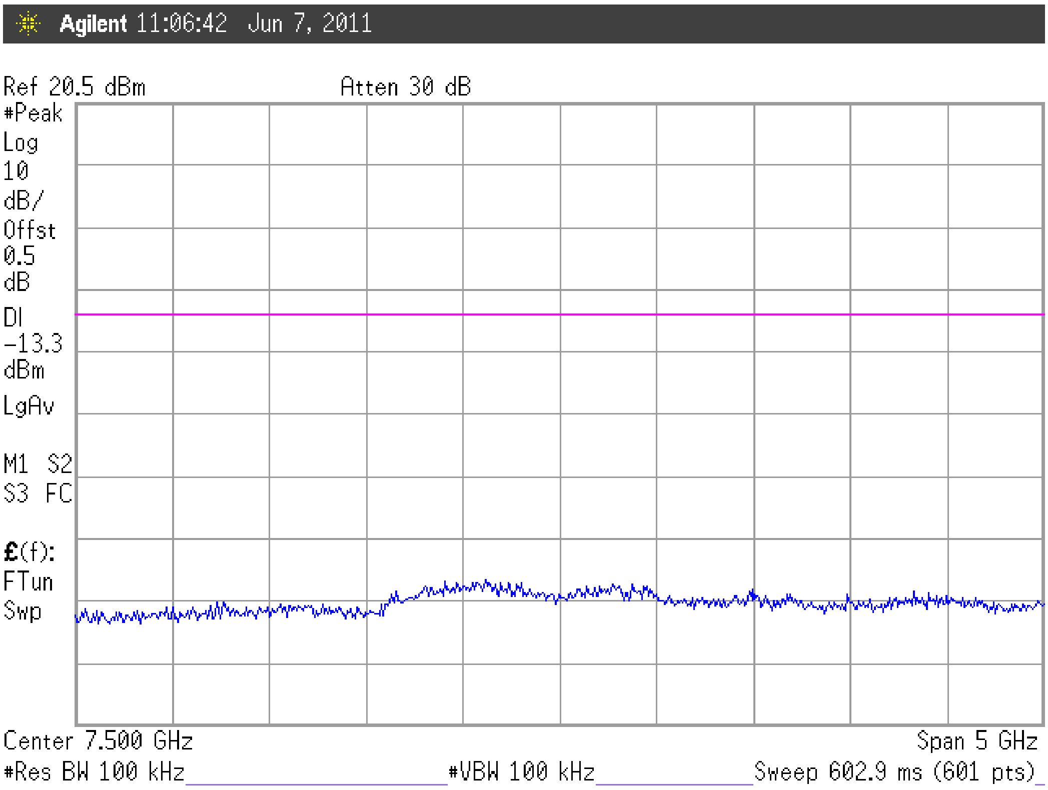
2452MHz: During 30MHz~25GHz bandwidth. In the 2.290GHz, the –48.67dBm is max value that is lower than 20dB of primary channel.

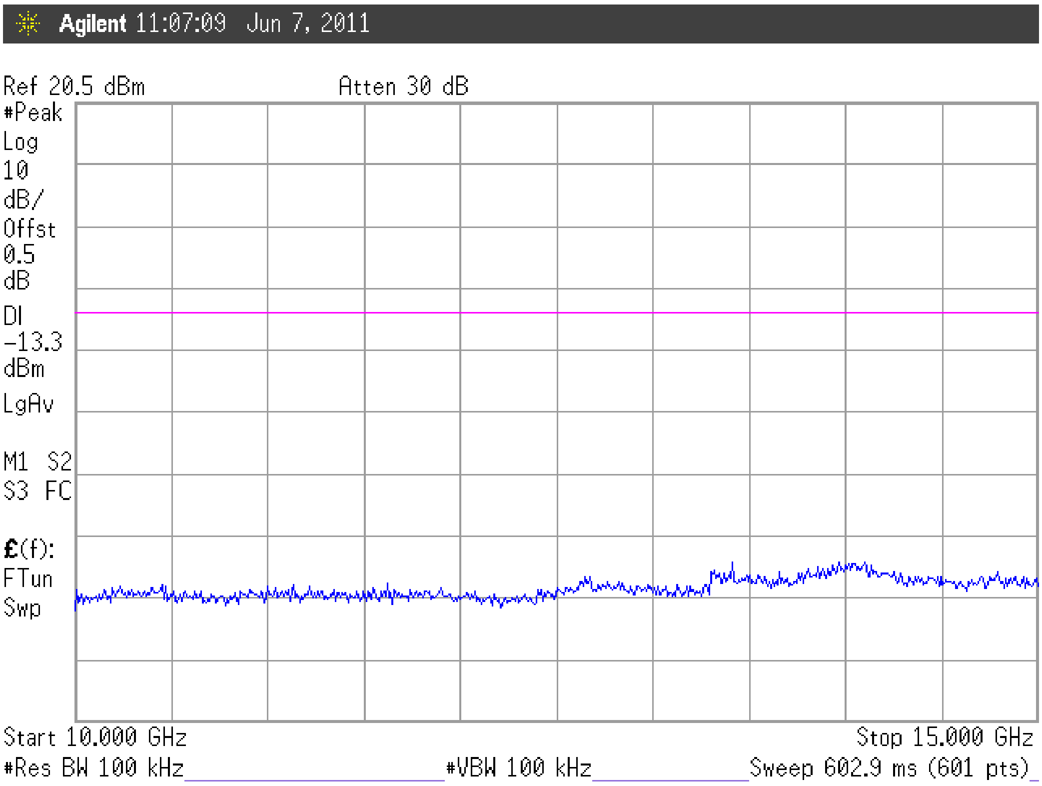
Note: The peak above the limit line is the carrier frequency.

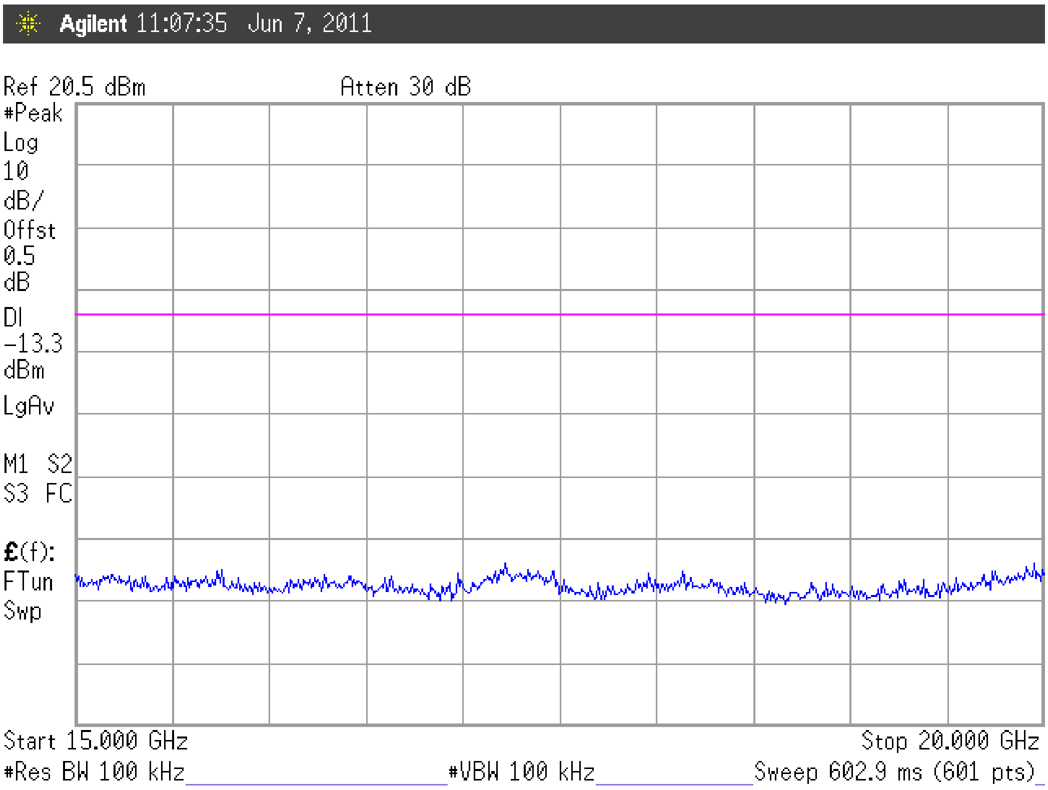
802.11b, Frequency: 2412MHz

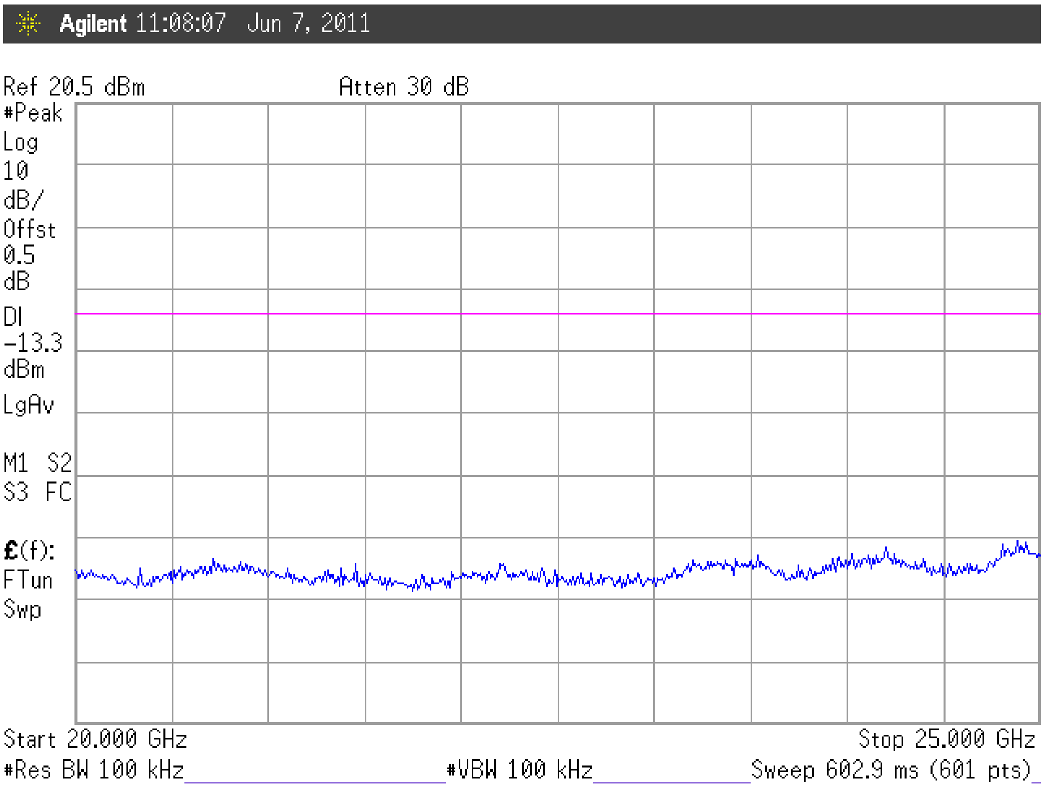




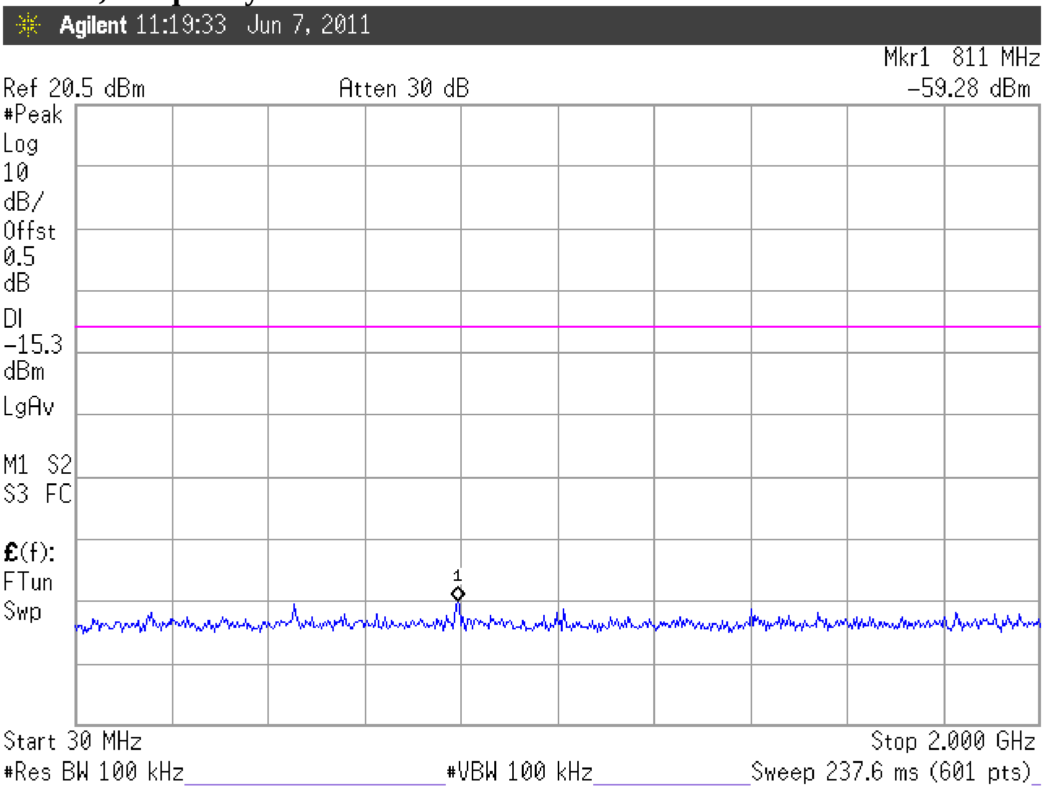

Agilent 11:06:42 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-13.3
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Center 7.500 GHz
Span 5 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

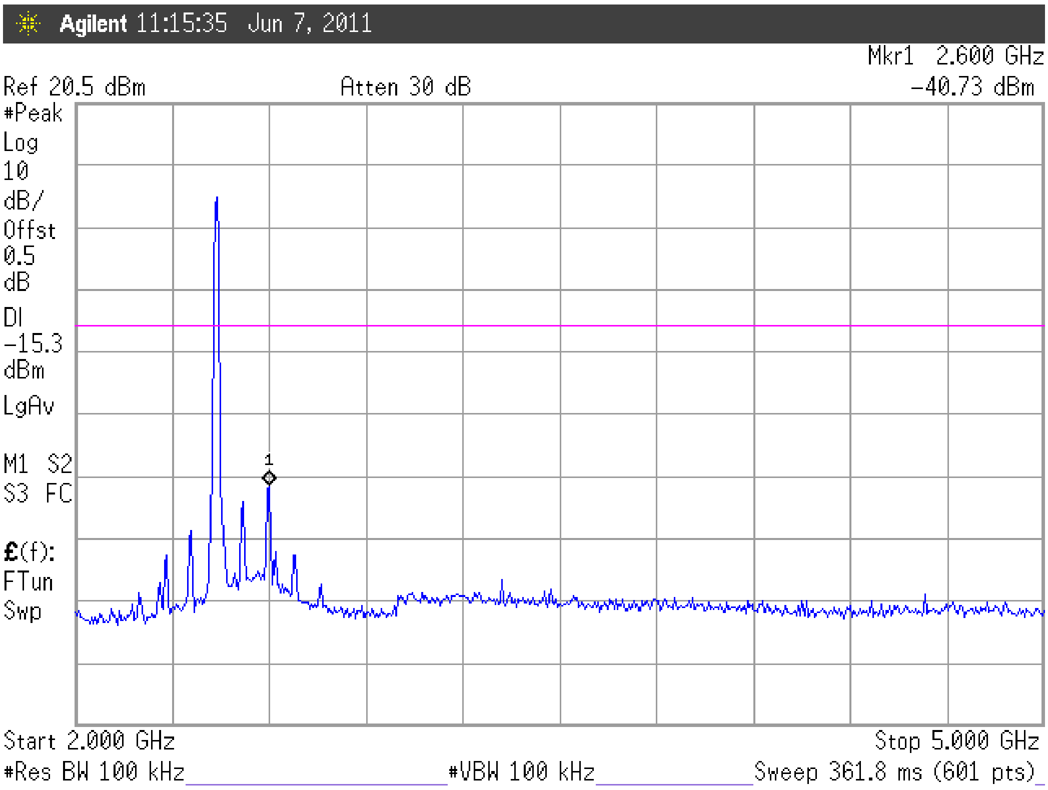

Agilent 11:07:09 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-13.3
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

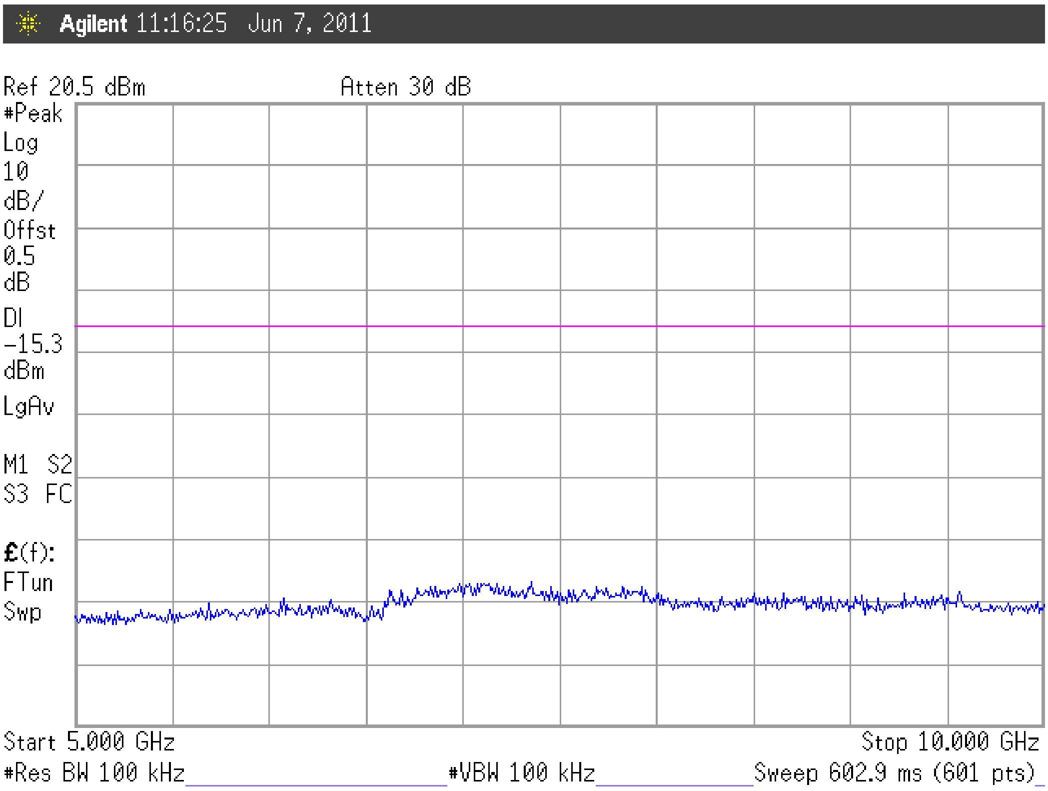

Agilent 11:07:35 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-13.3
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

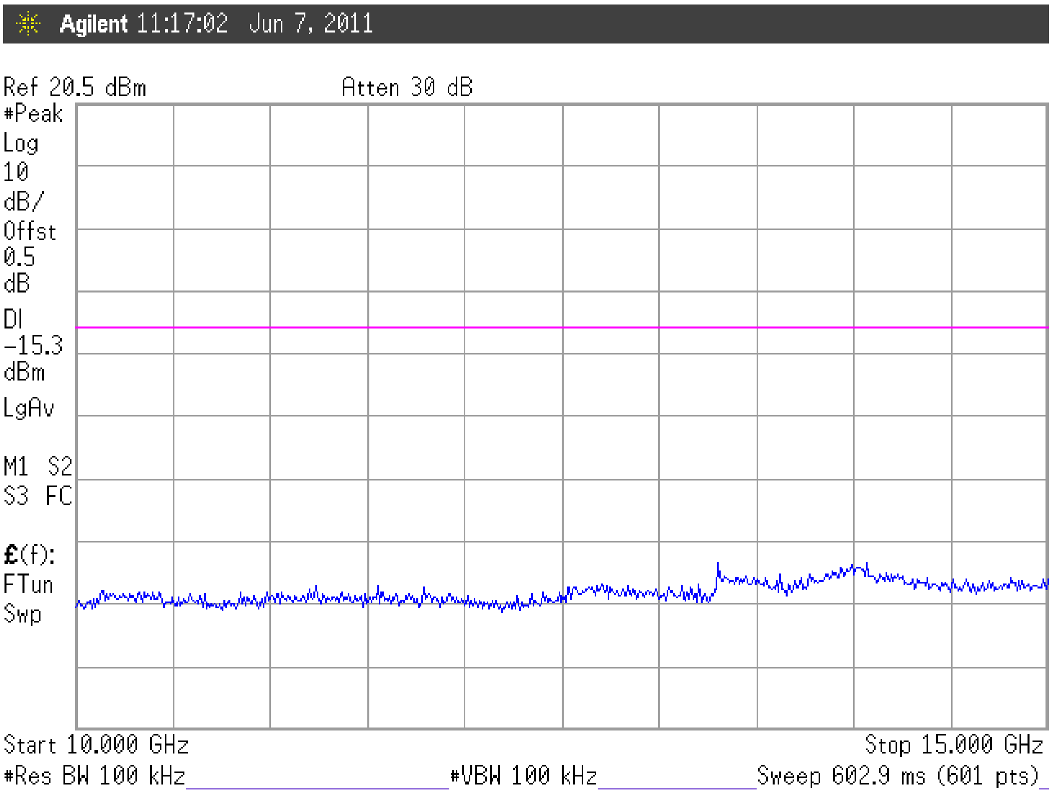

Agilent 11:08:07 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-13.3
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

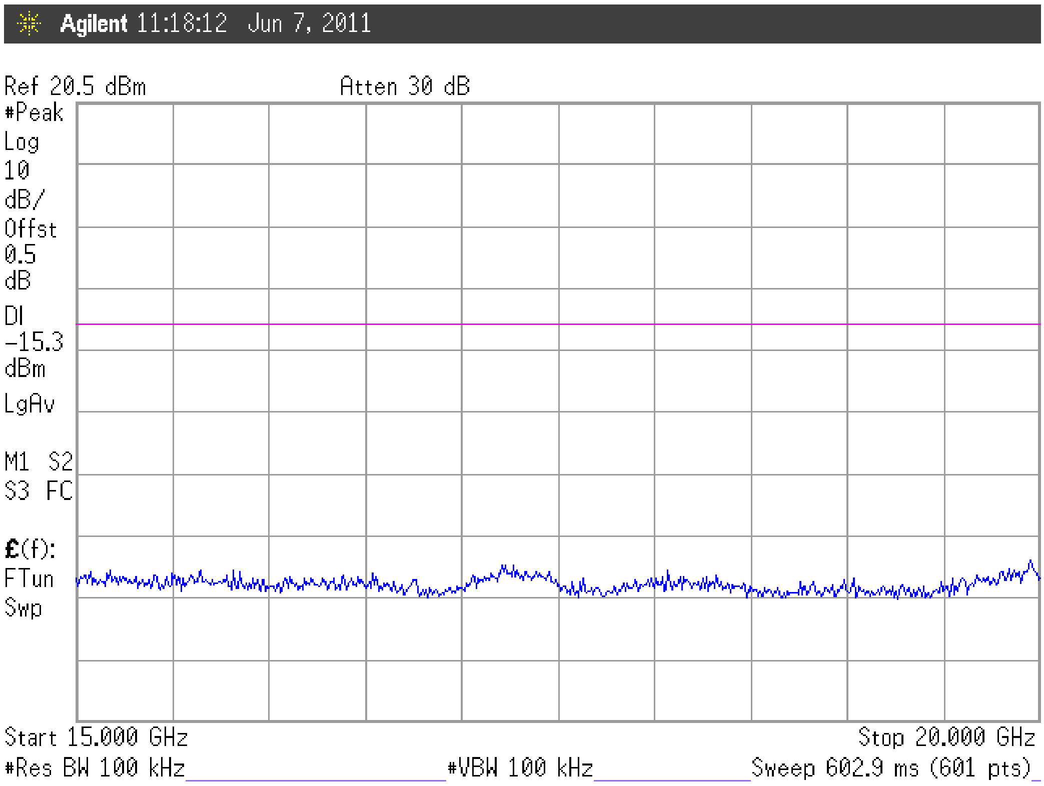
802.11b, Frequency: 2437MHz

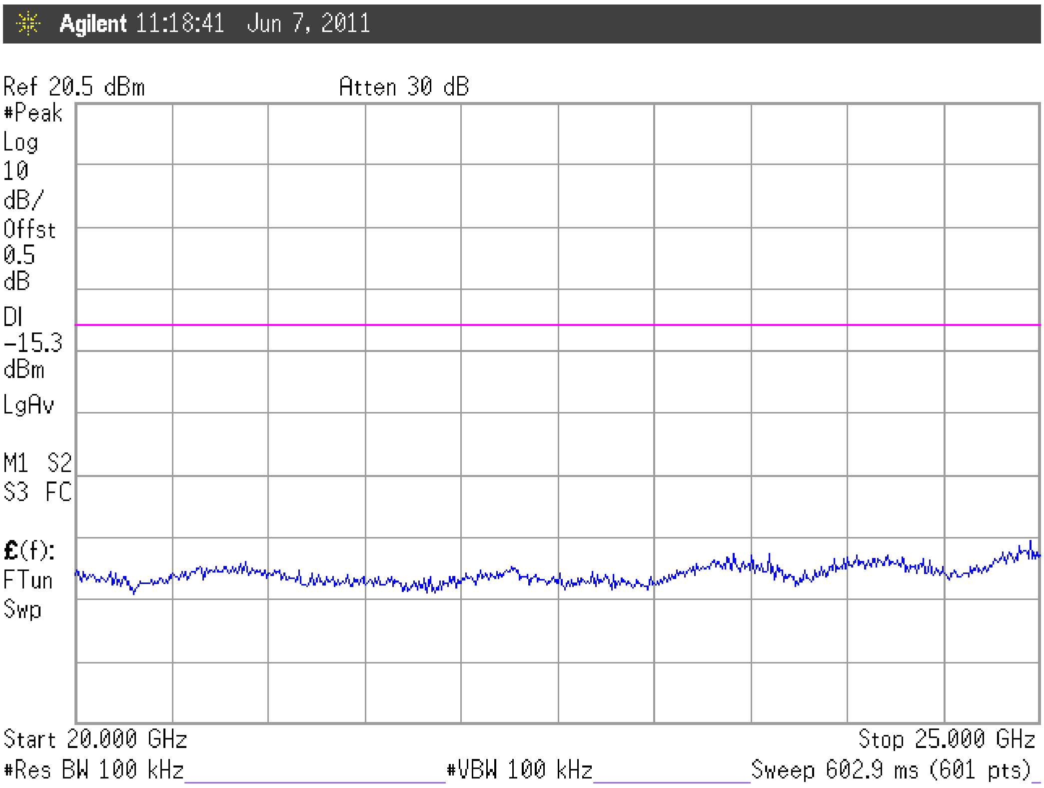




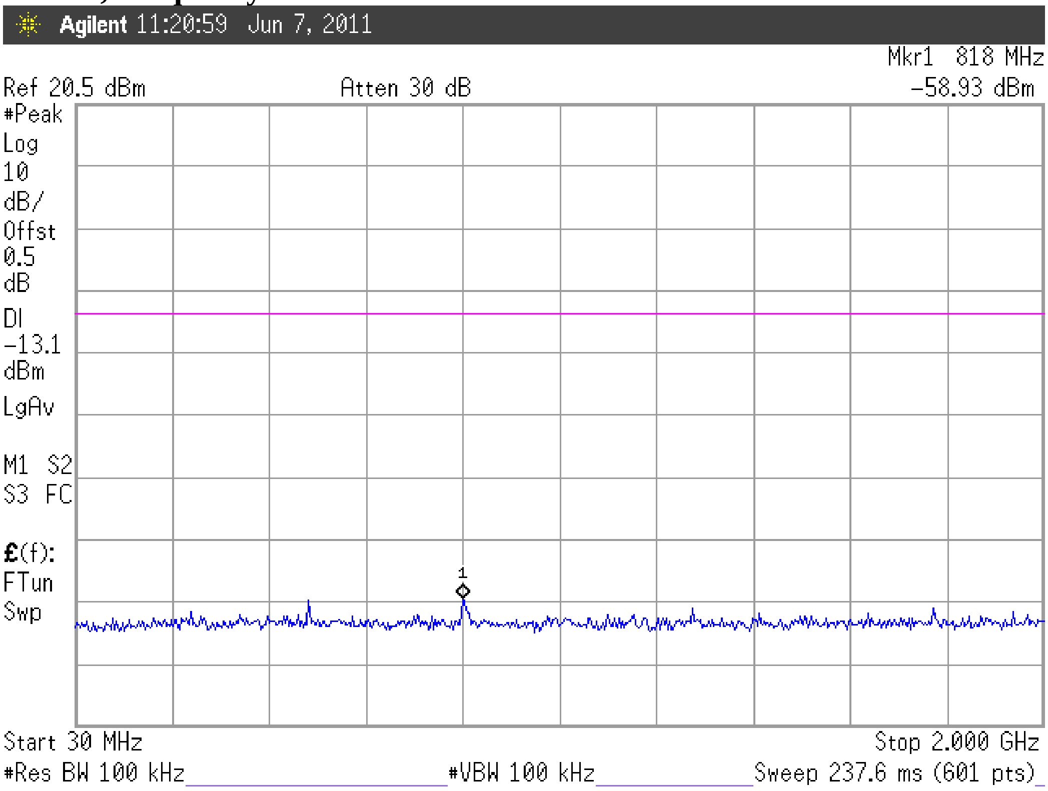

Agilent 11:16:25 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-15.3
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

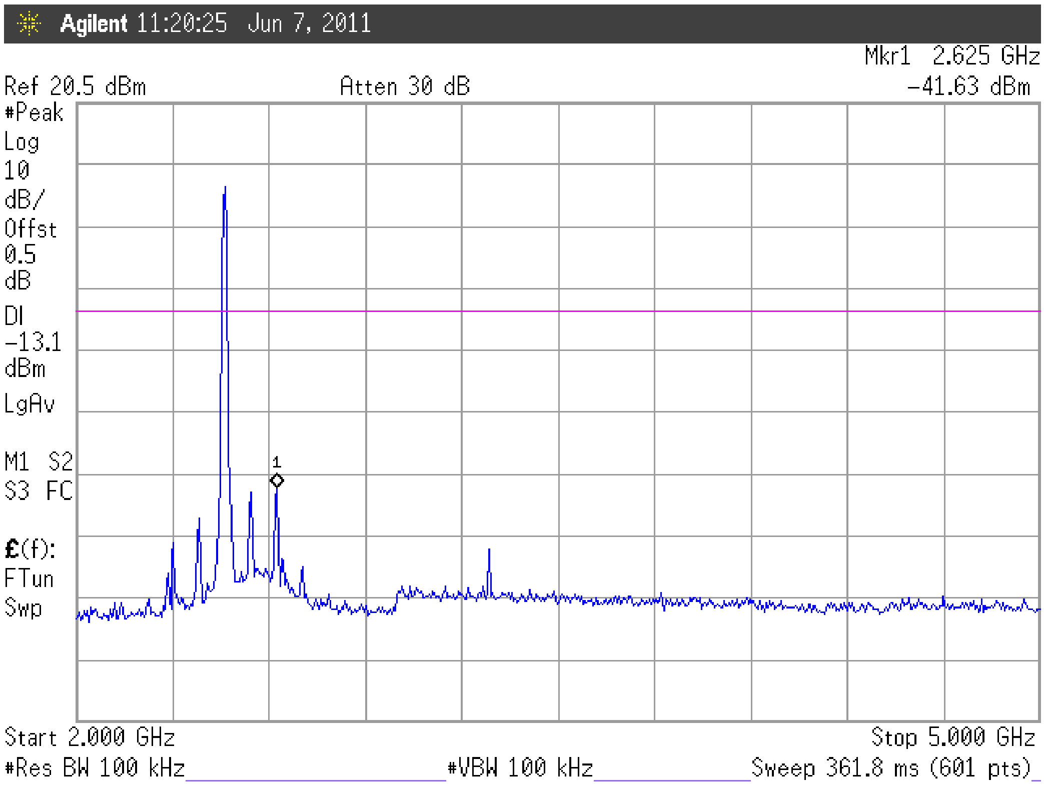

Agilent 11:17:02 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-15.3
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

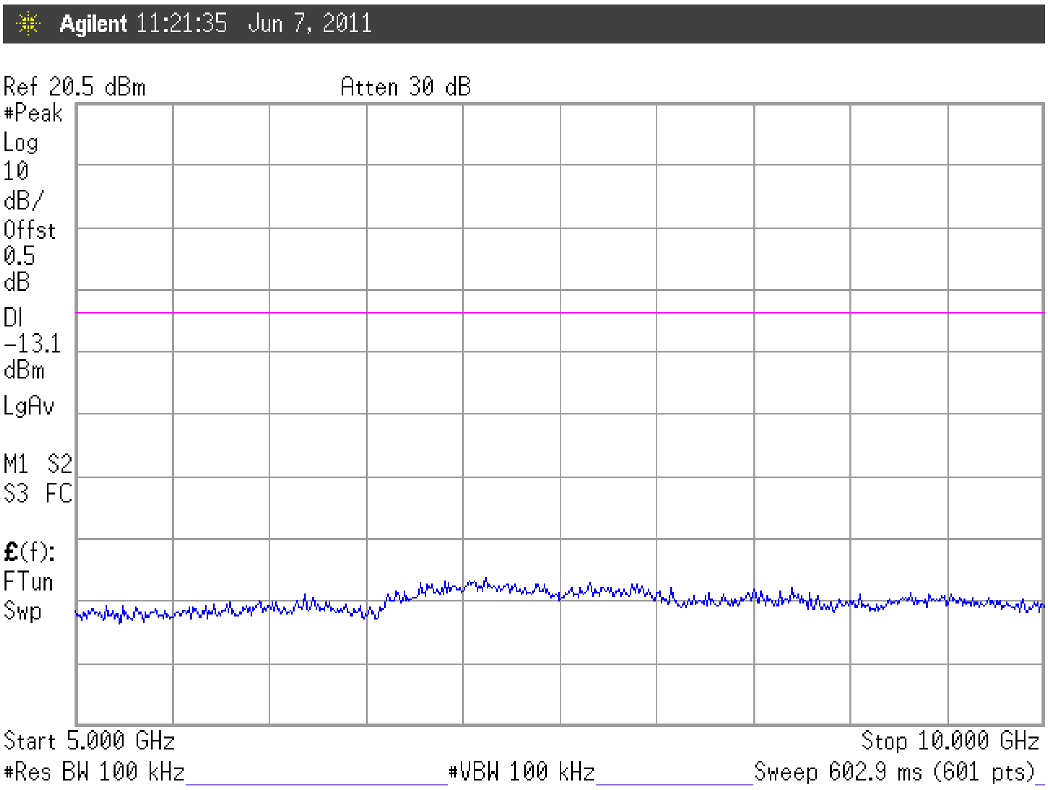

Agilent 11:18:12 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-15.3
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

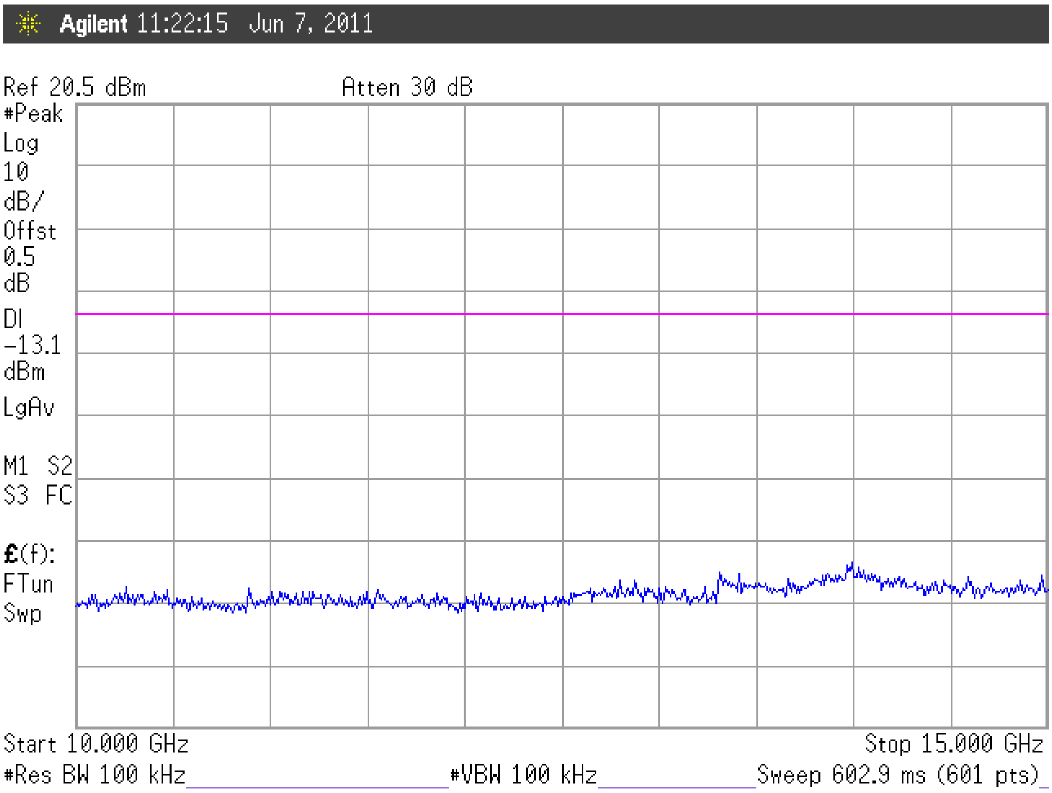

Agilent 11:18:41 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-15.3
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

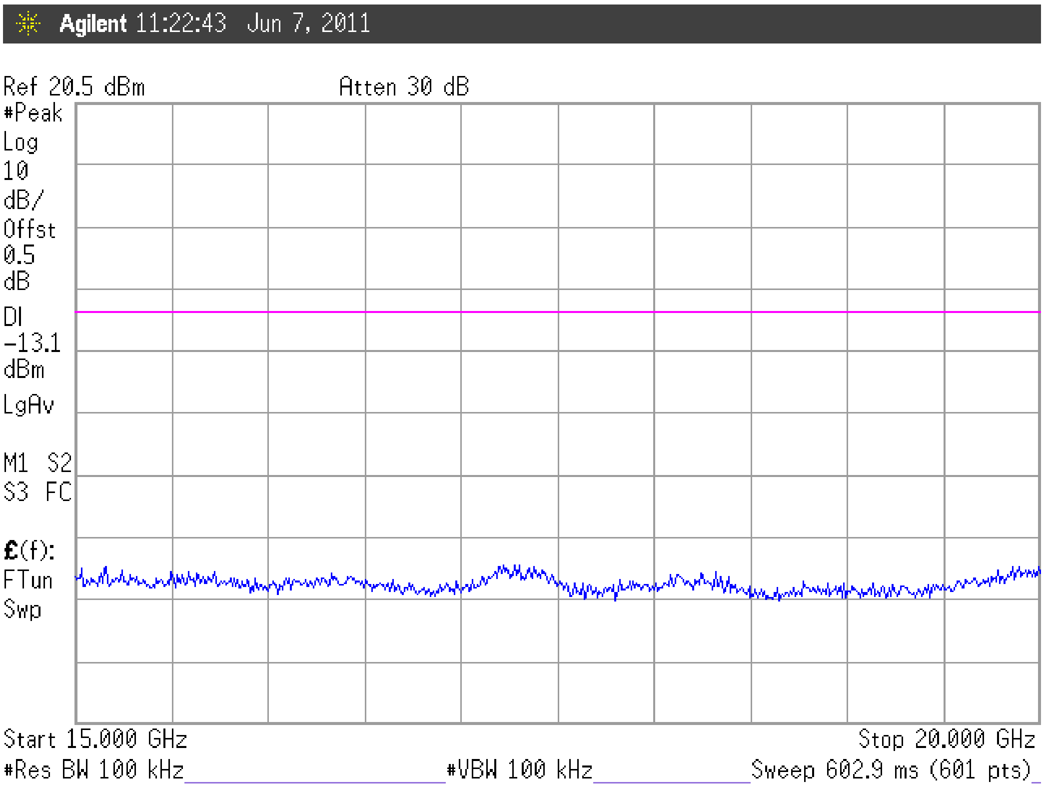
802.11b, Frequency: 2462MHz

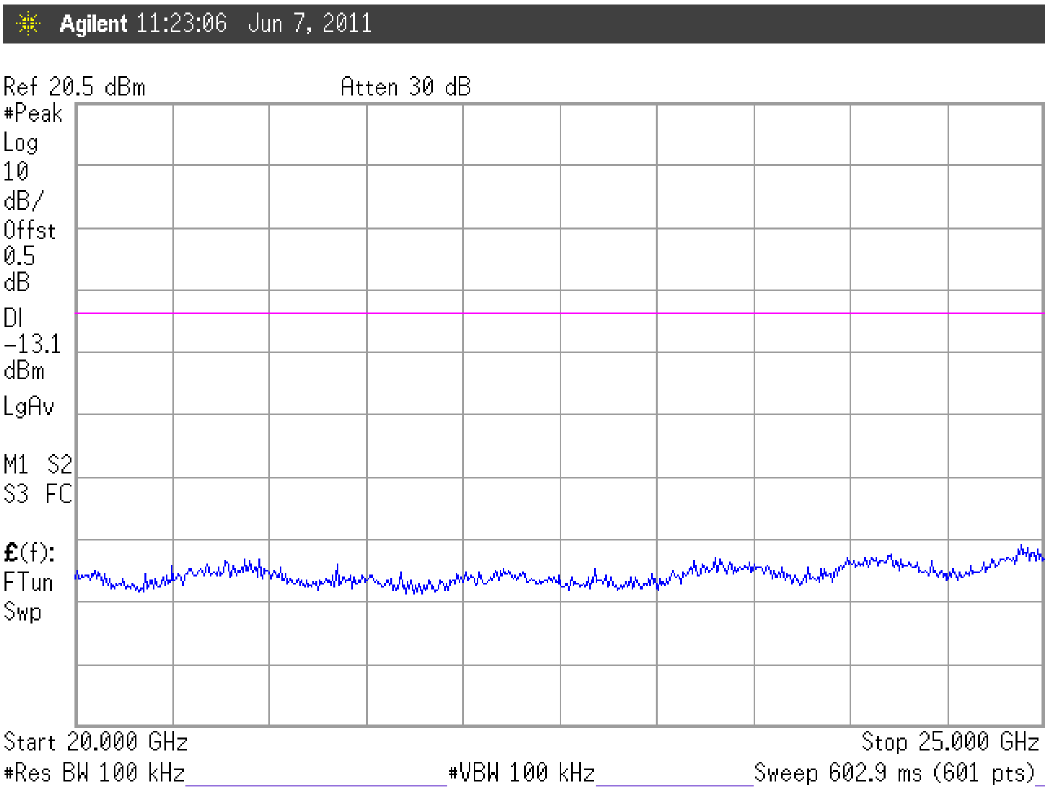




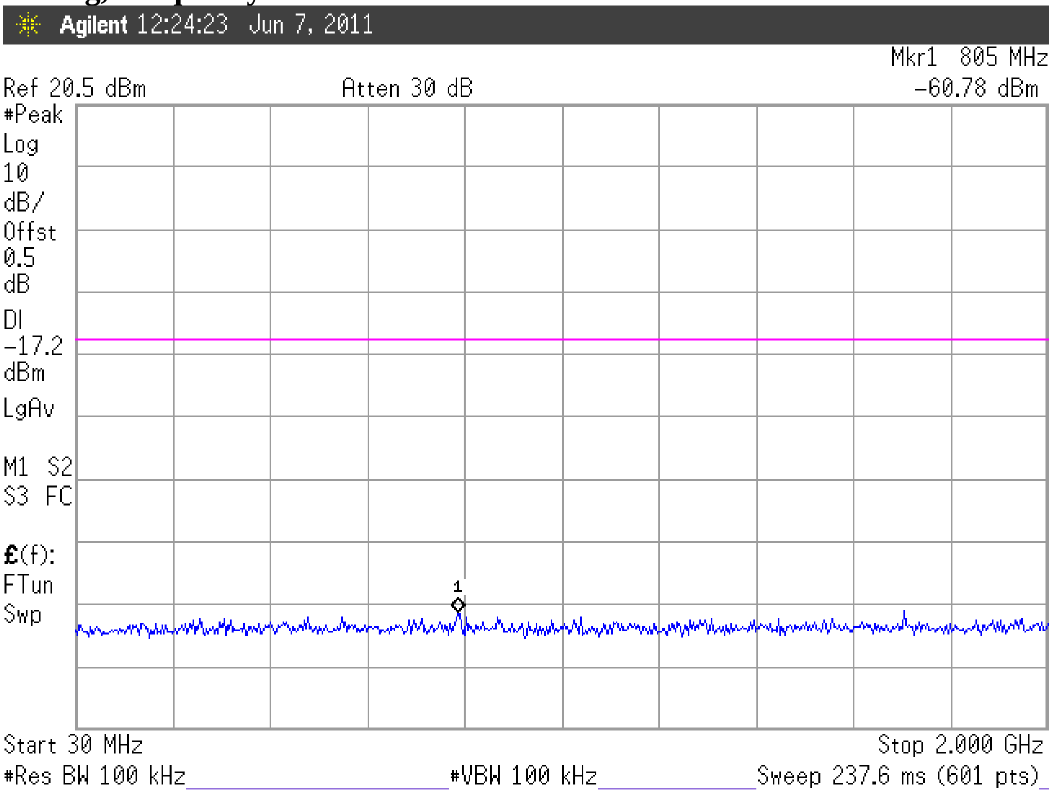

Agilent 11:21:35 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-13.1
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

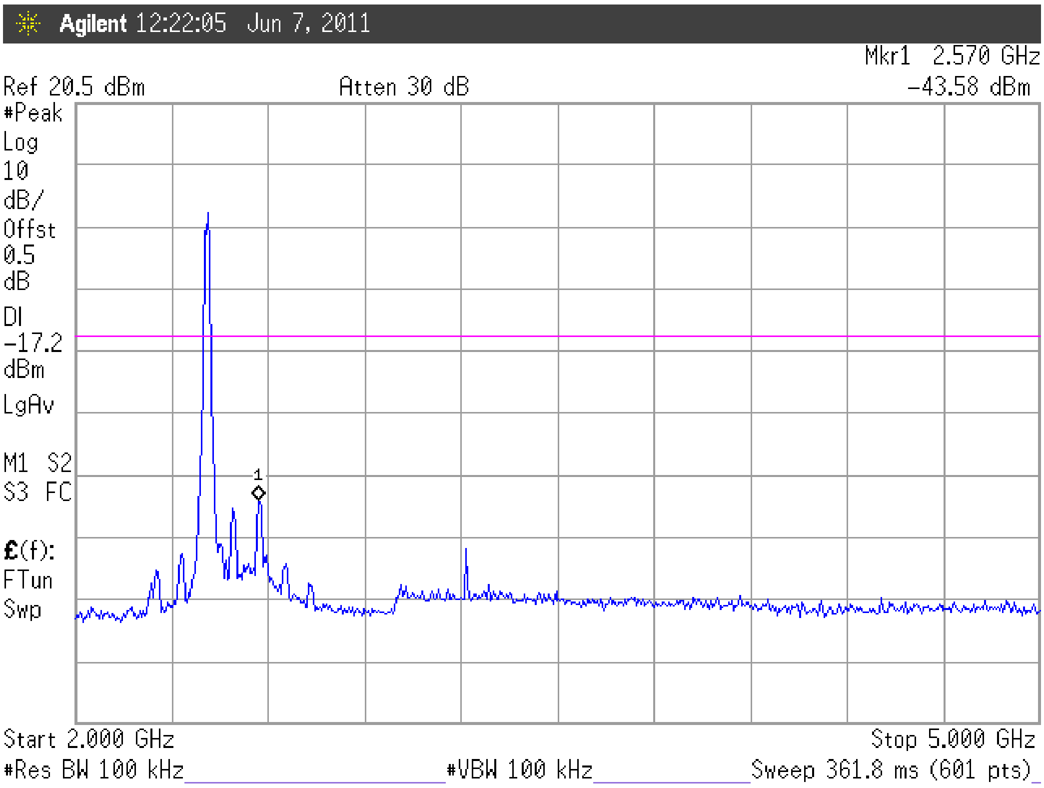

Agilent 11:22:15 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-13.1
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

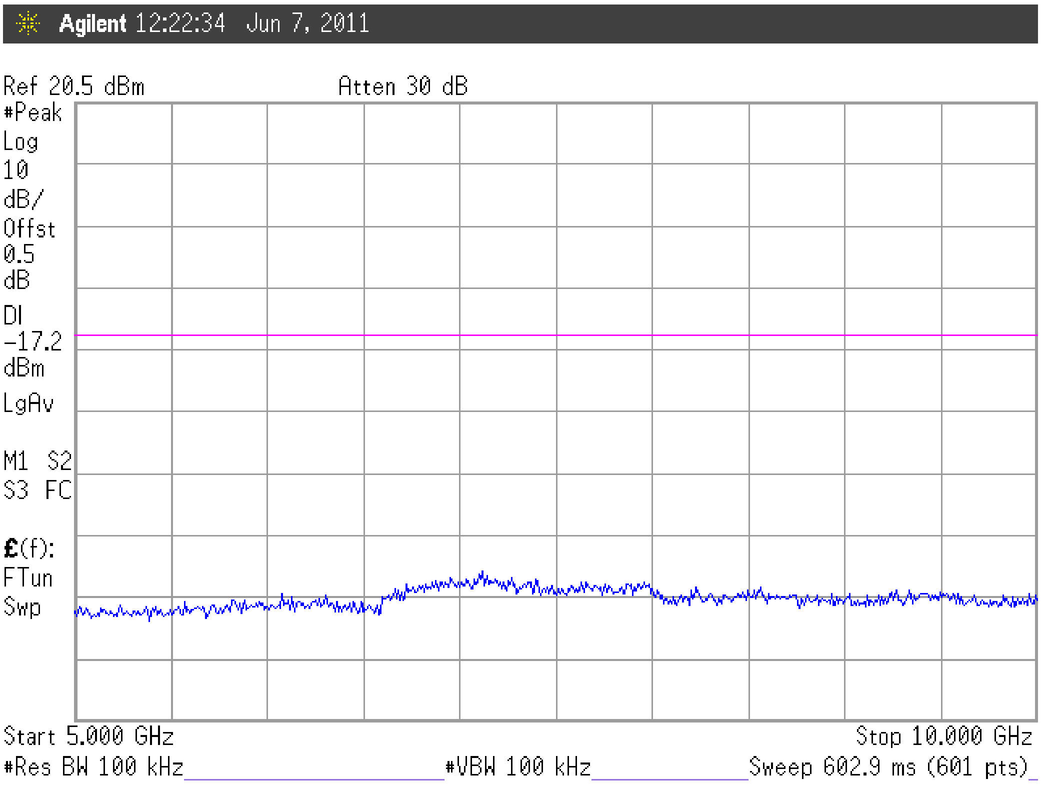

Agilent 11:22:43 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-13.1
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

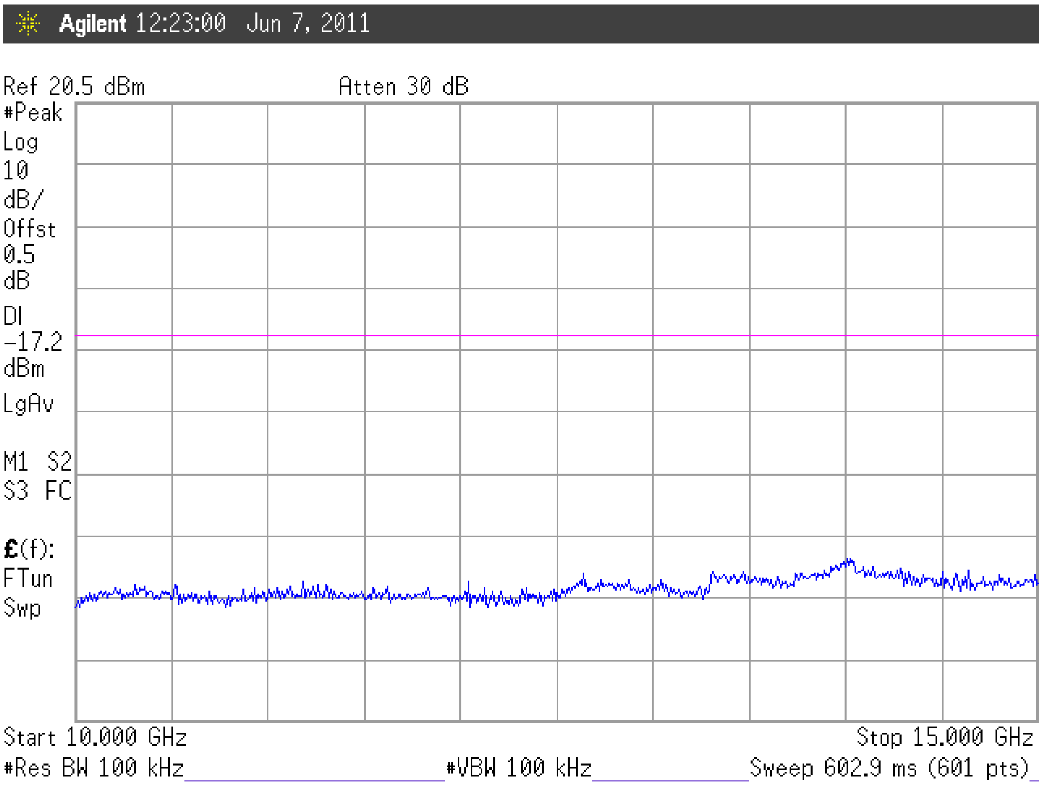

Agilent 11:23:06 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-13.1
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

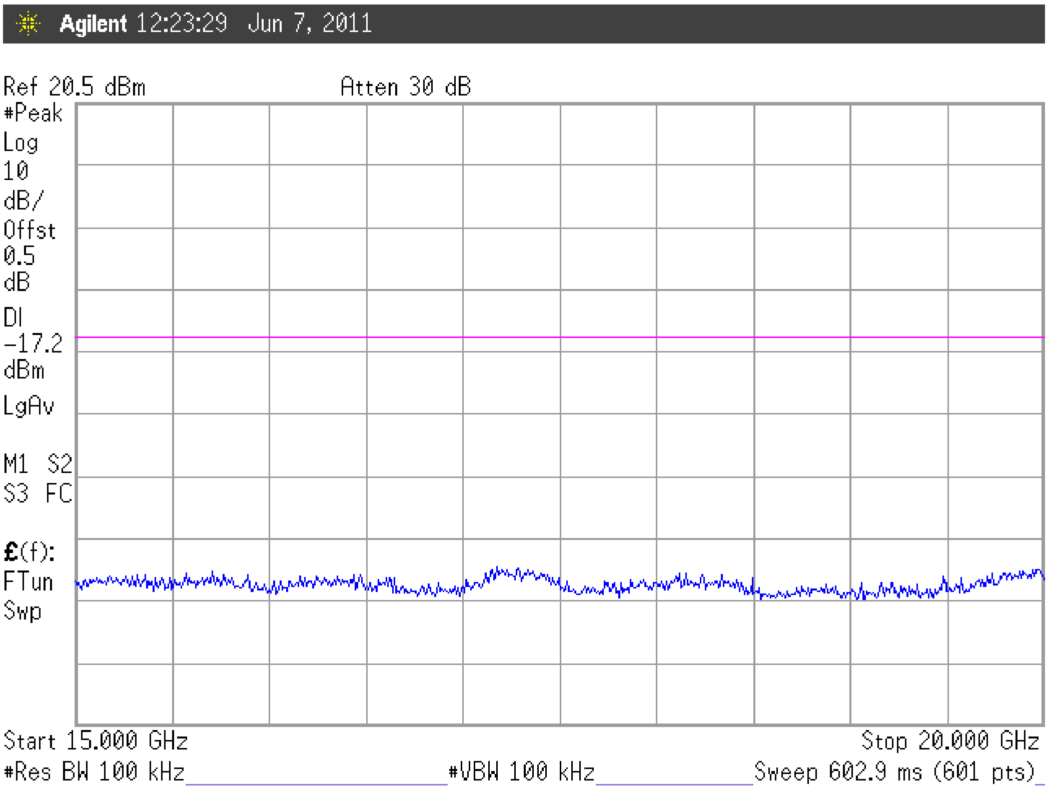
802.11g, Frequency: 2412MHz

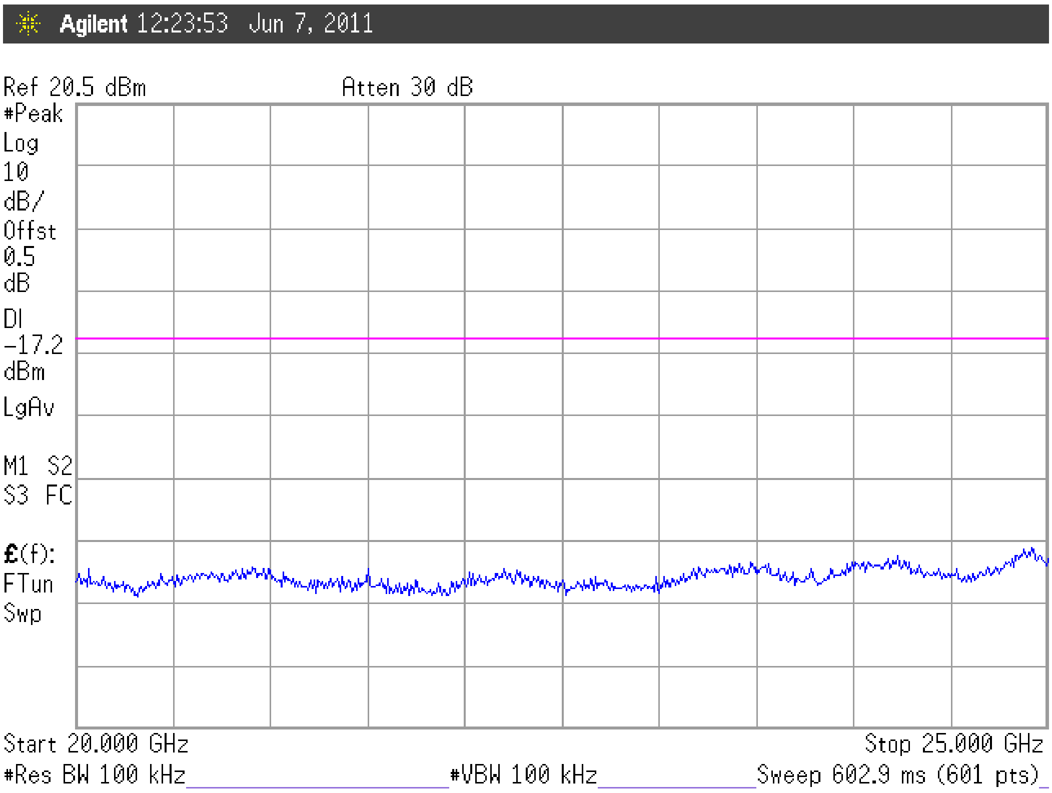




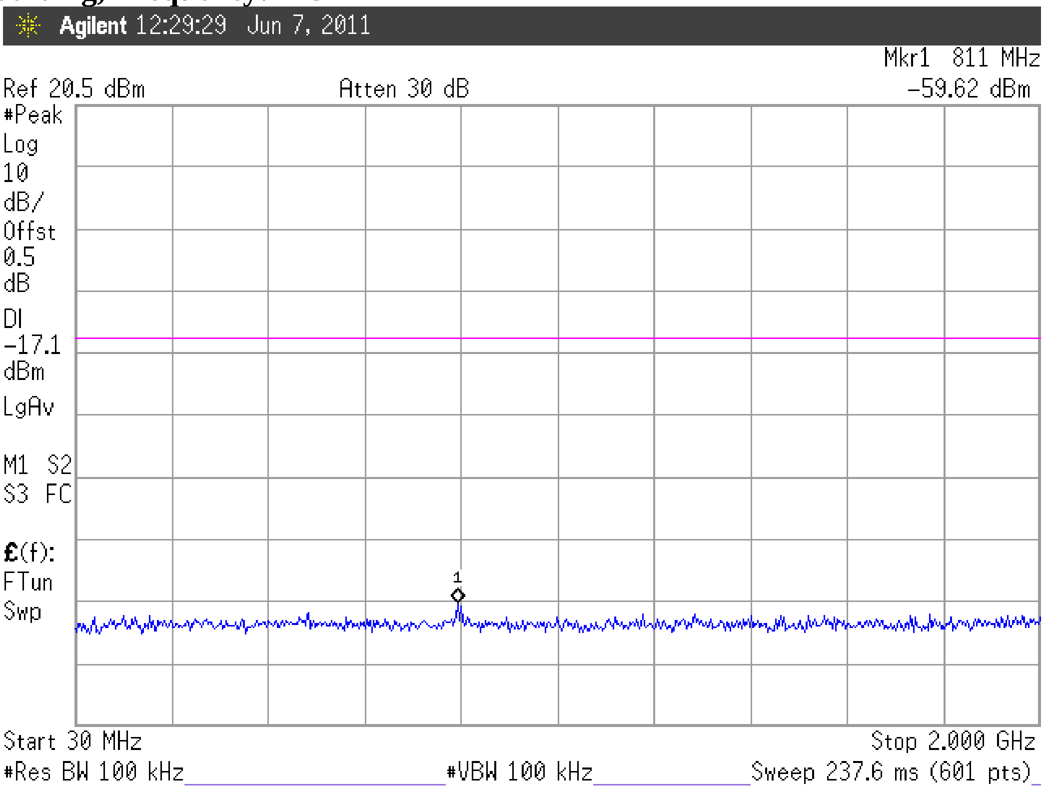

Agilent 12:22:34 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-17.2
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

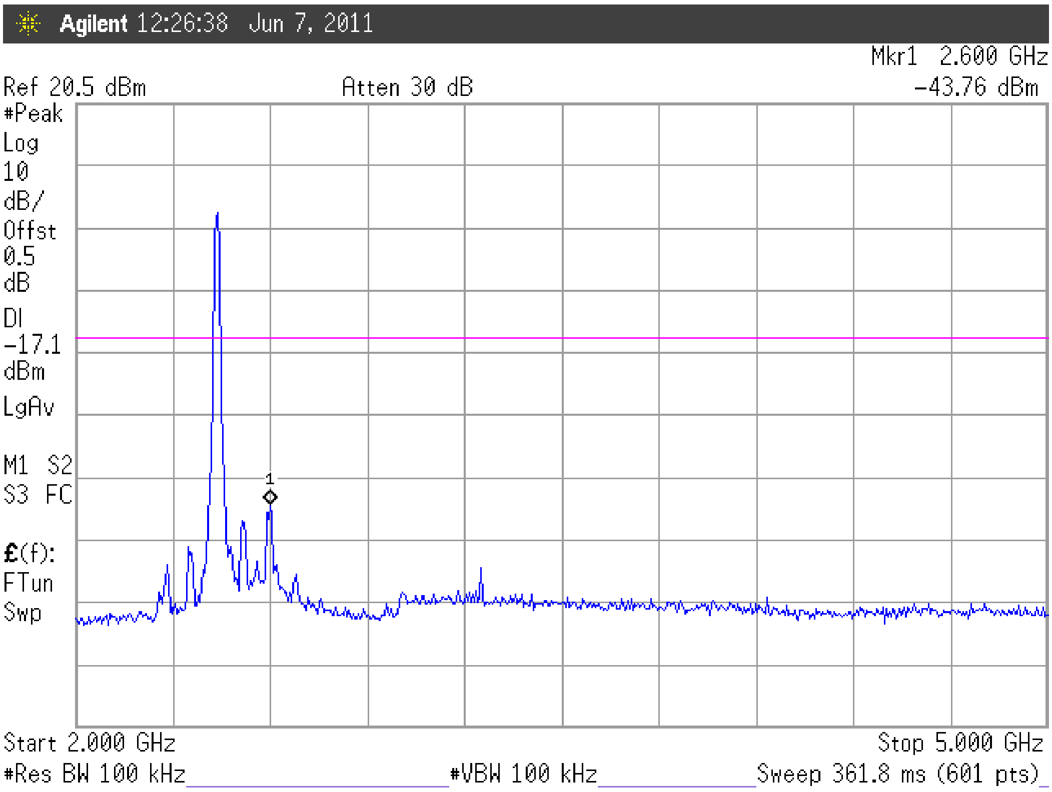

Agilent 12:23:00 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-17.2
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

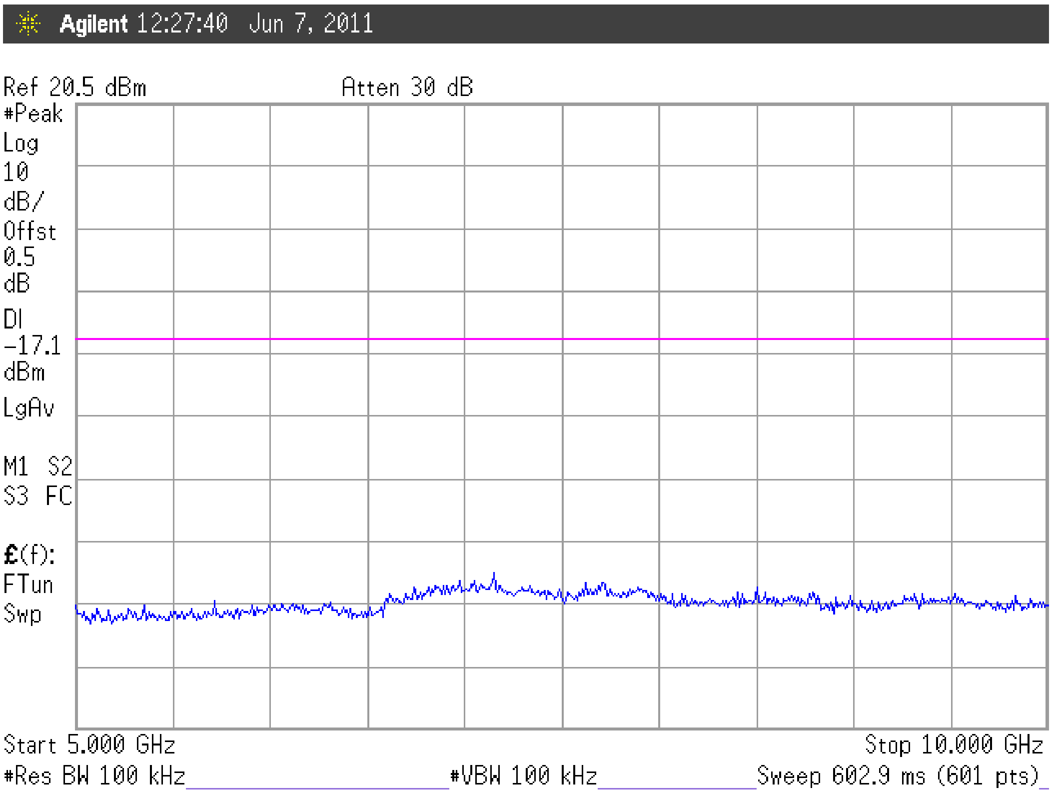

Agilent 12:23:29 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-17.2
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

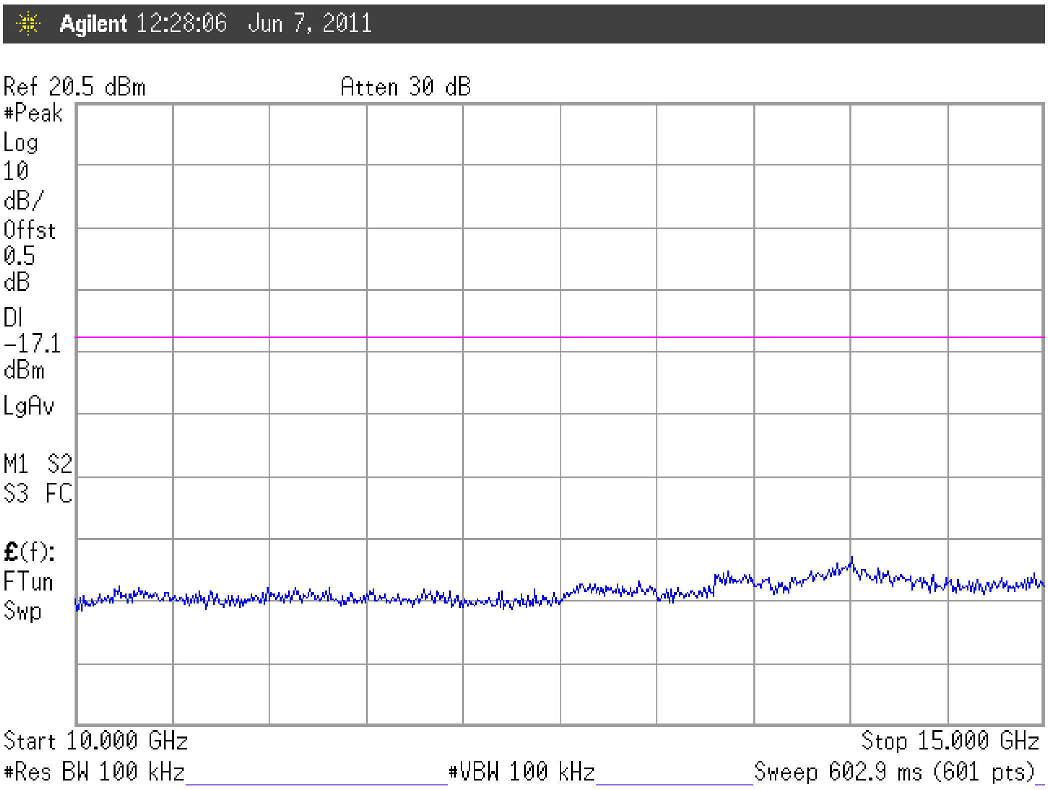

Agilent 12:23:53 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-17.2
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

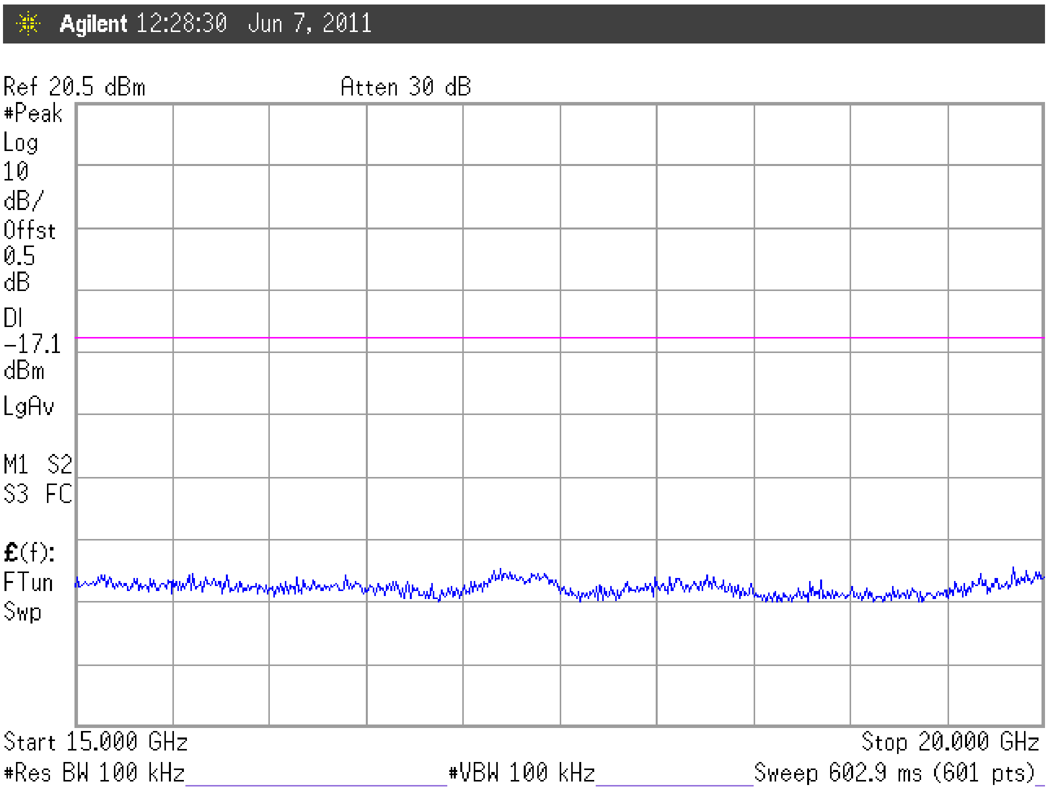
802.11g, Frequency: 2437MHz

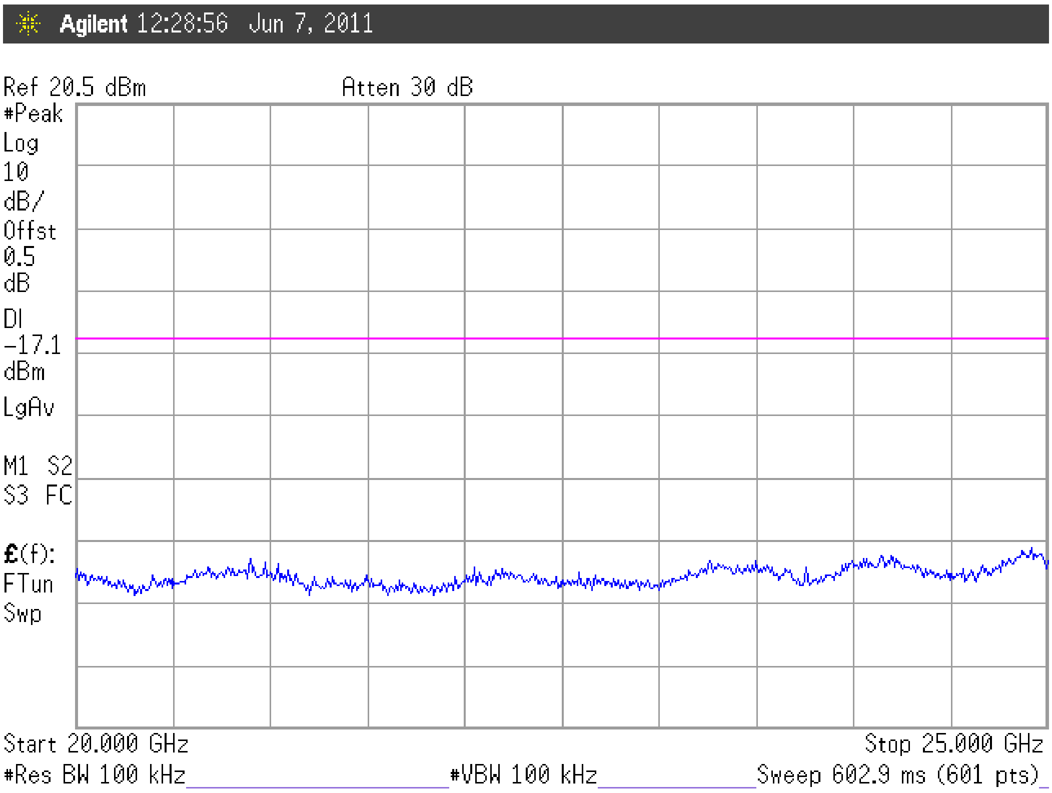




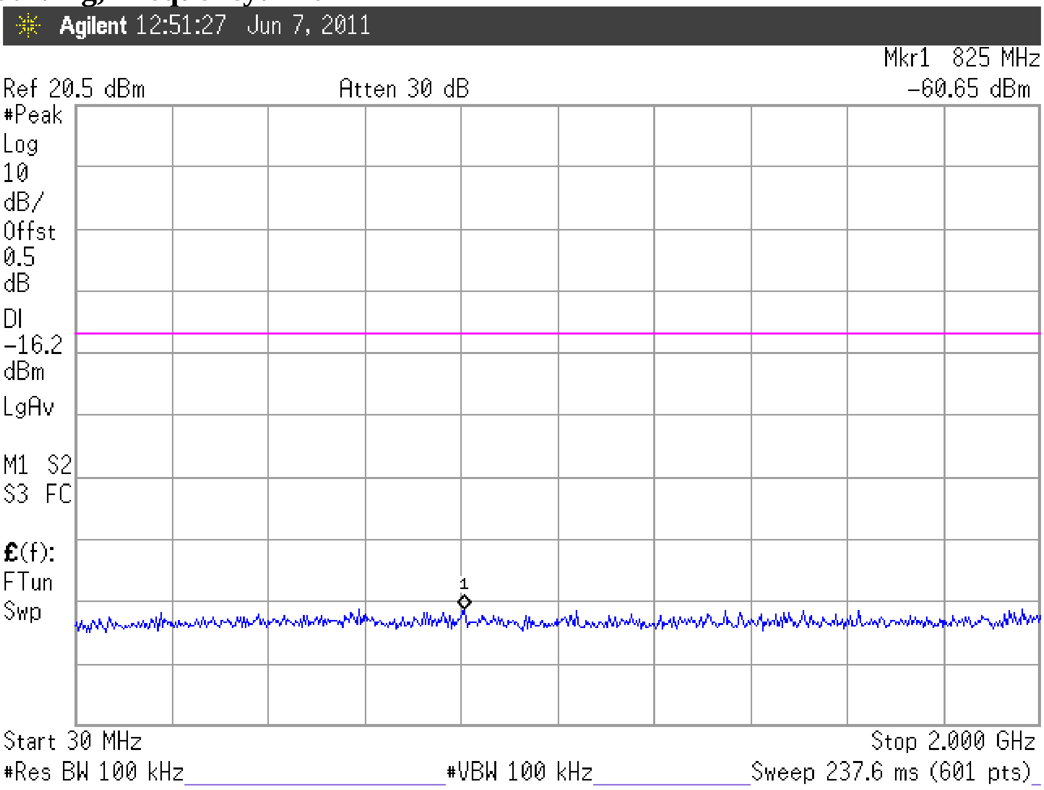

Agilent 12:27:40 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-17.1
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

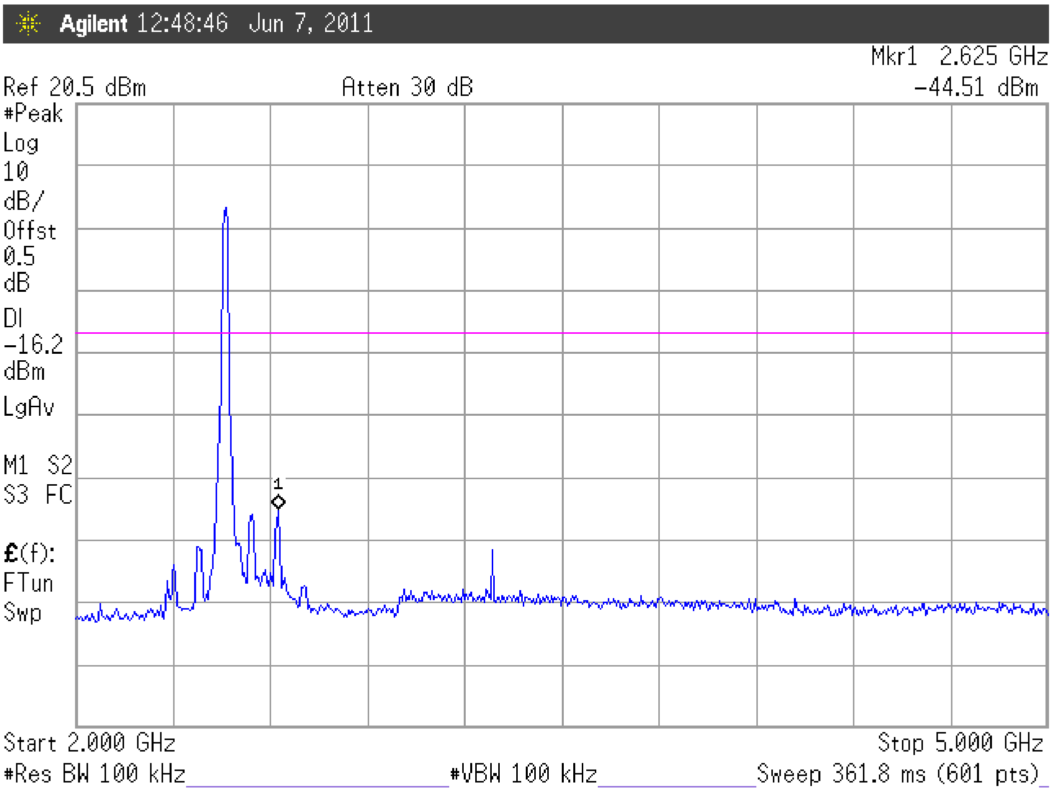

Agilent 12:28:06 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-17.1
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

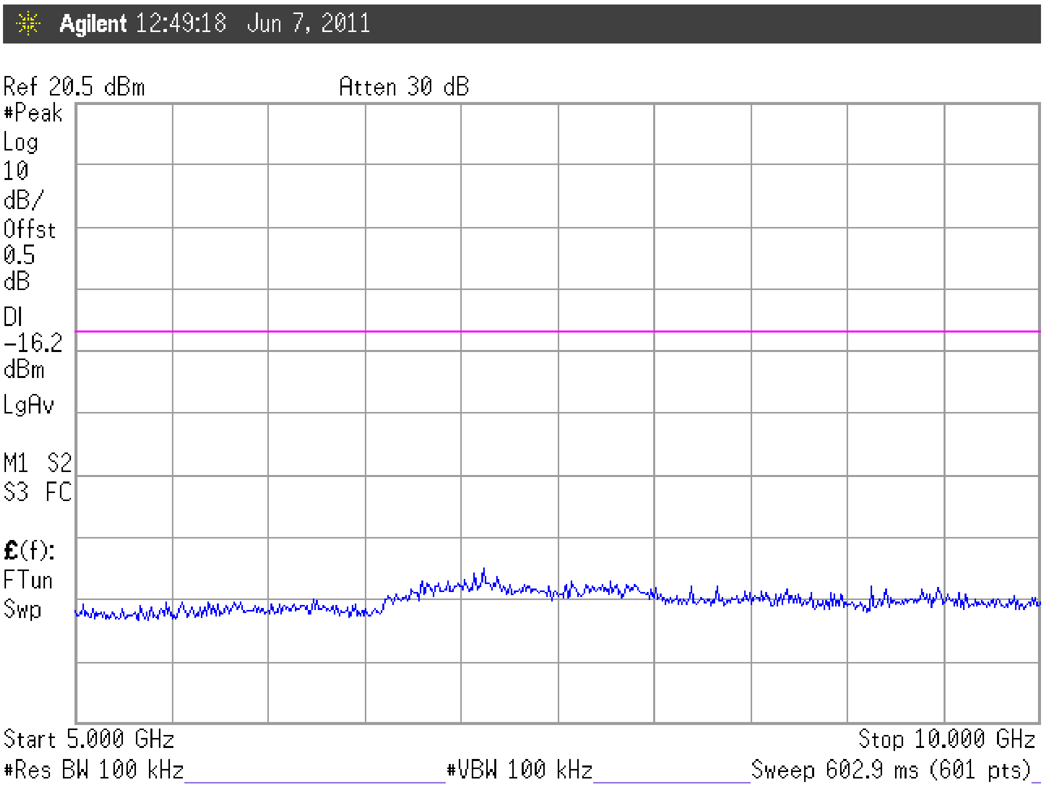

Agilent 12:28:30 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-17.1
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

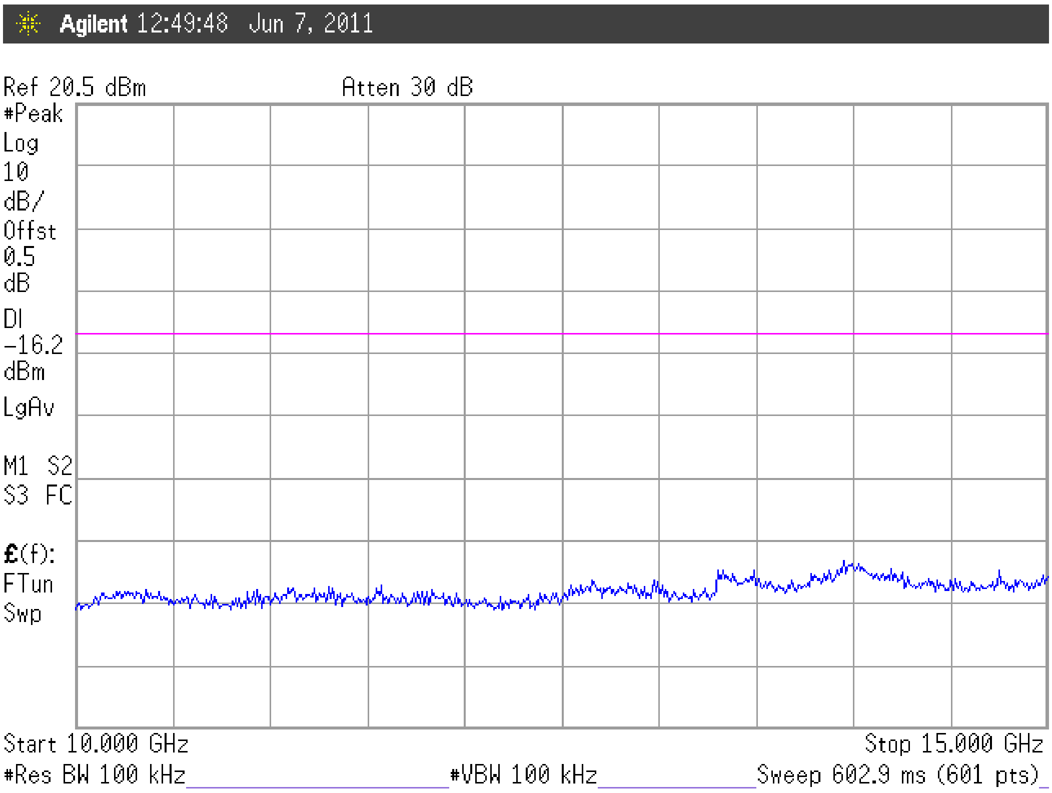

Agilent 12:28:56 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-17.1
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

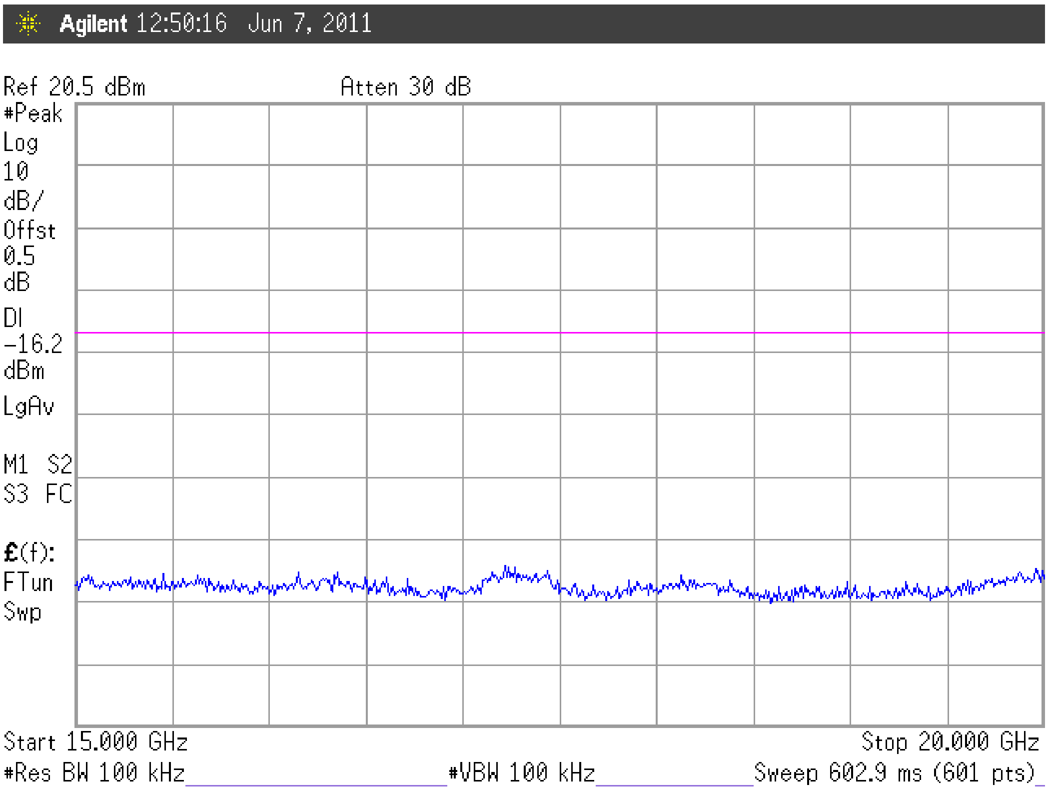
802.11g, Frequency: 2462MHz



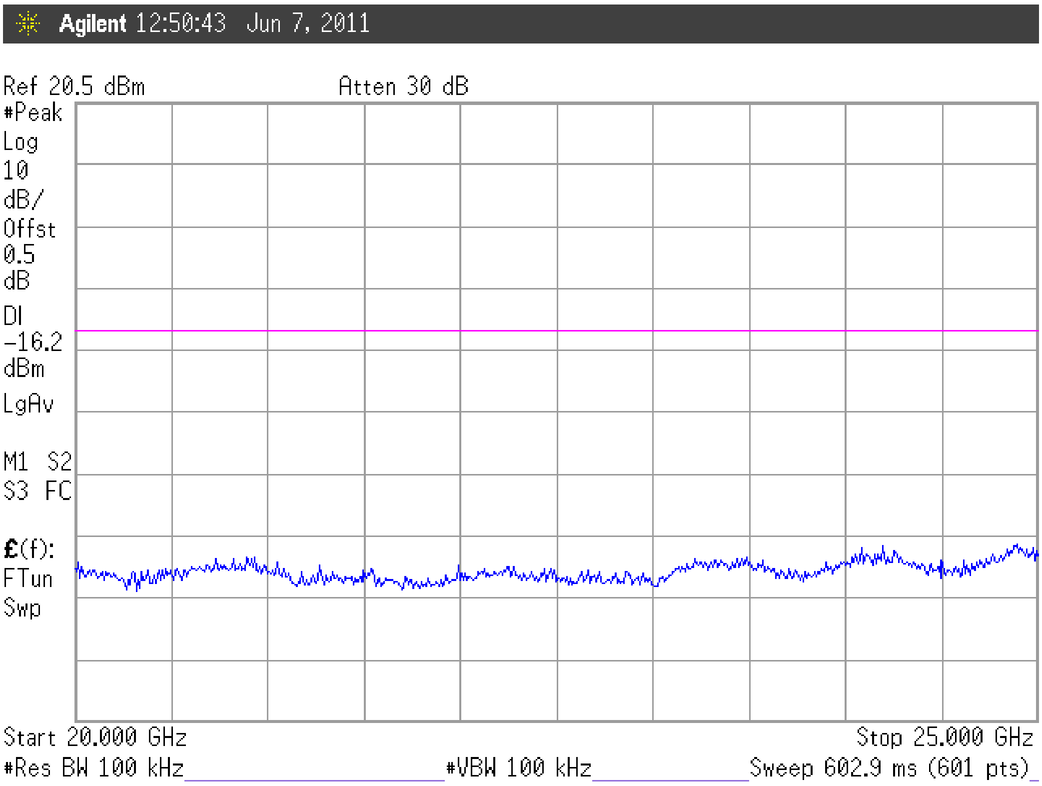



Agilent 12:49:18 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-16.2
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)


Agilent 12:49:48 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-16.2
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

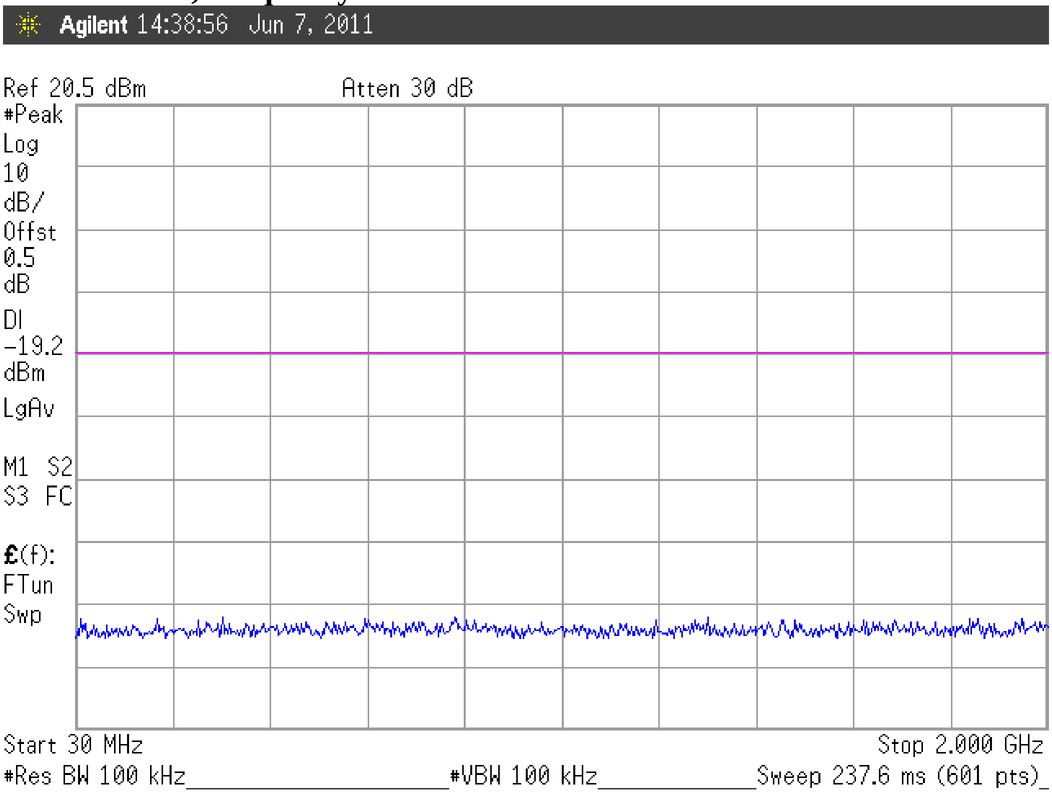


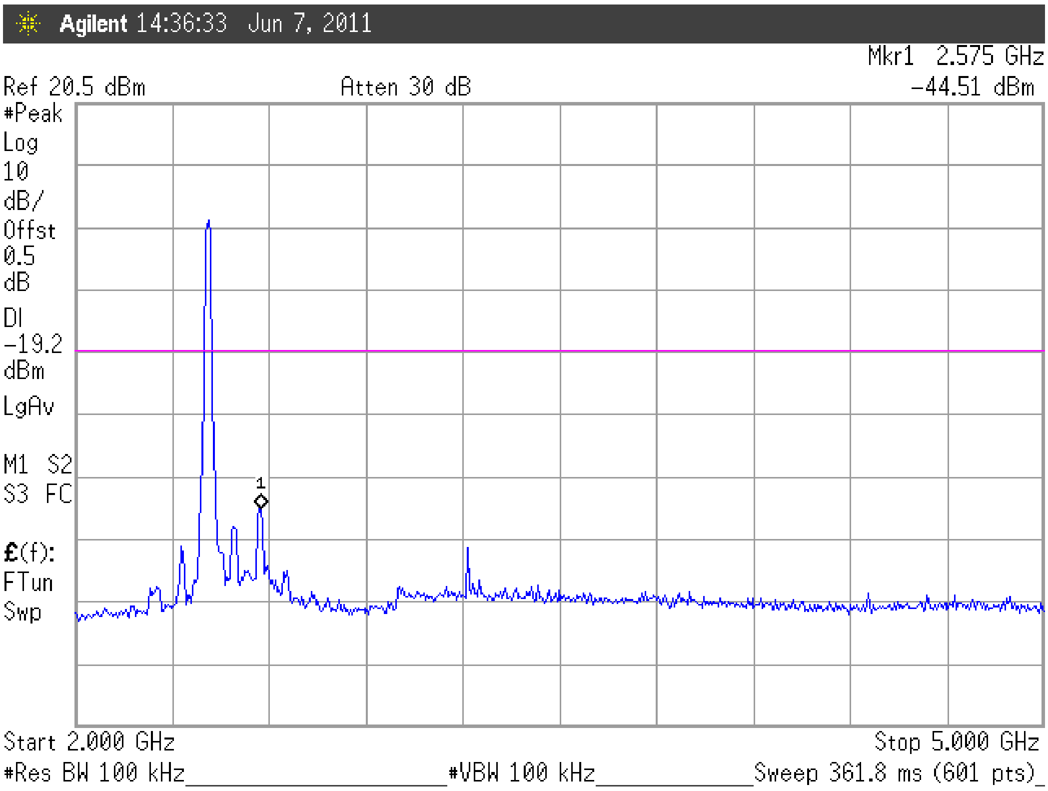
Agilent 12:50:16 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-16.2
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

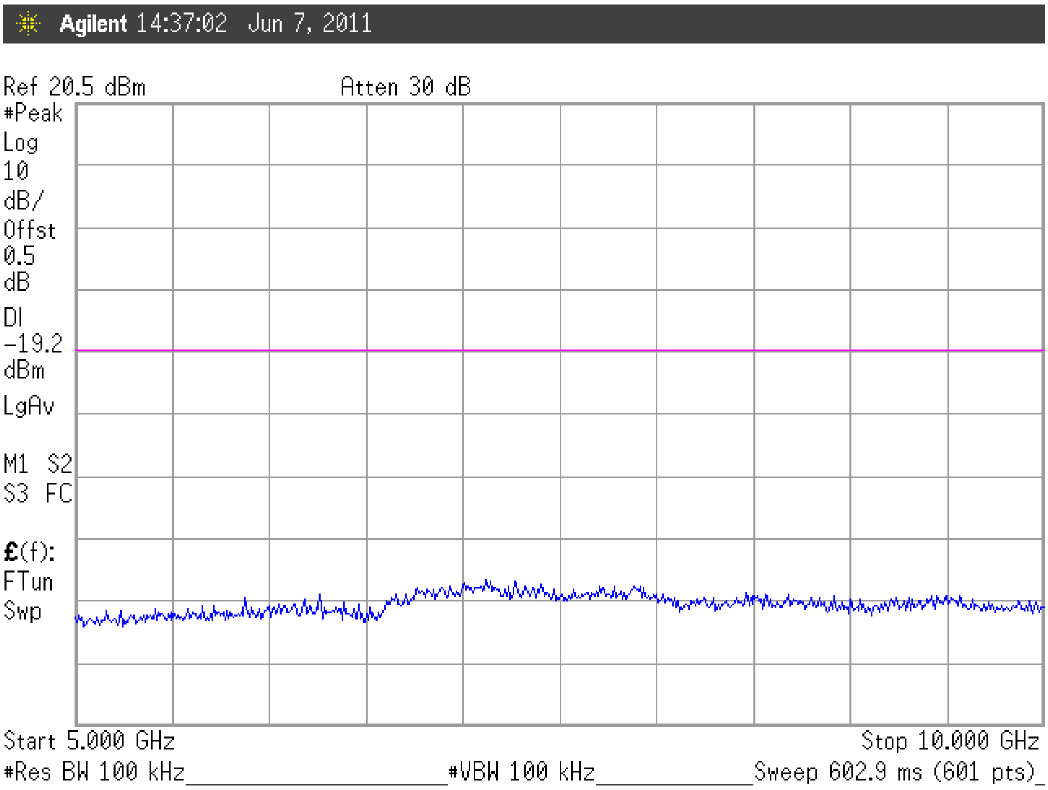


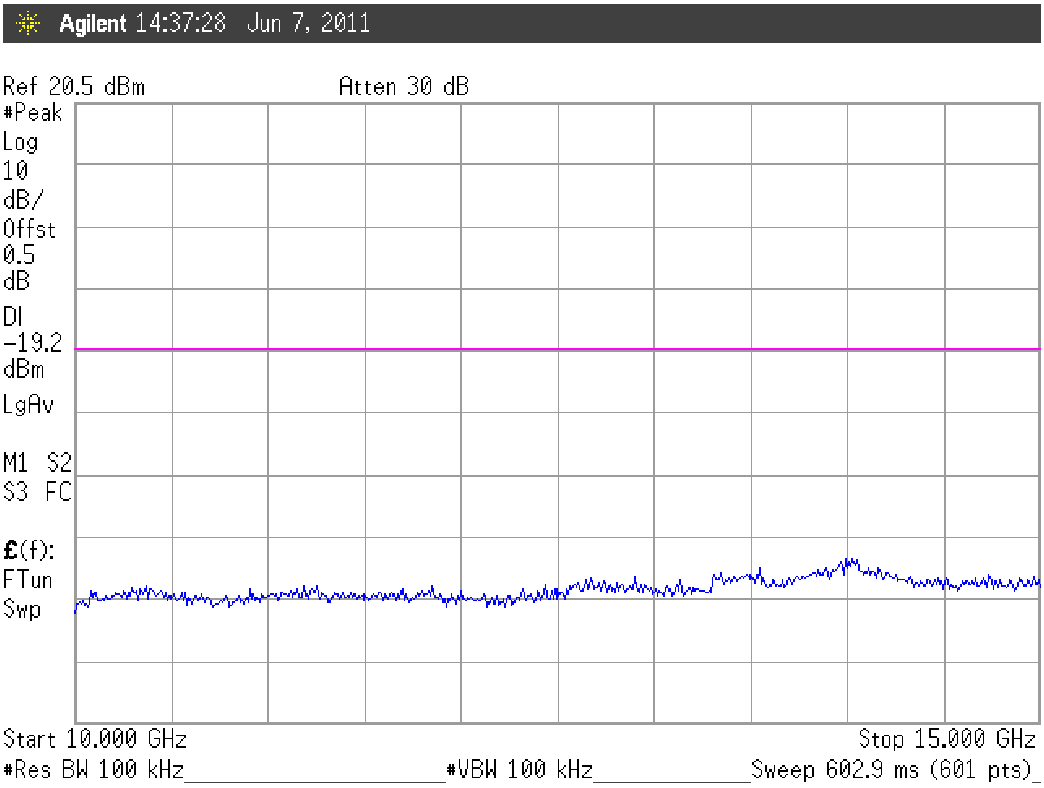
Agilent 12:50:43 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-16.2
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

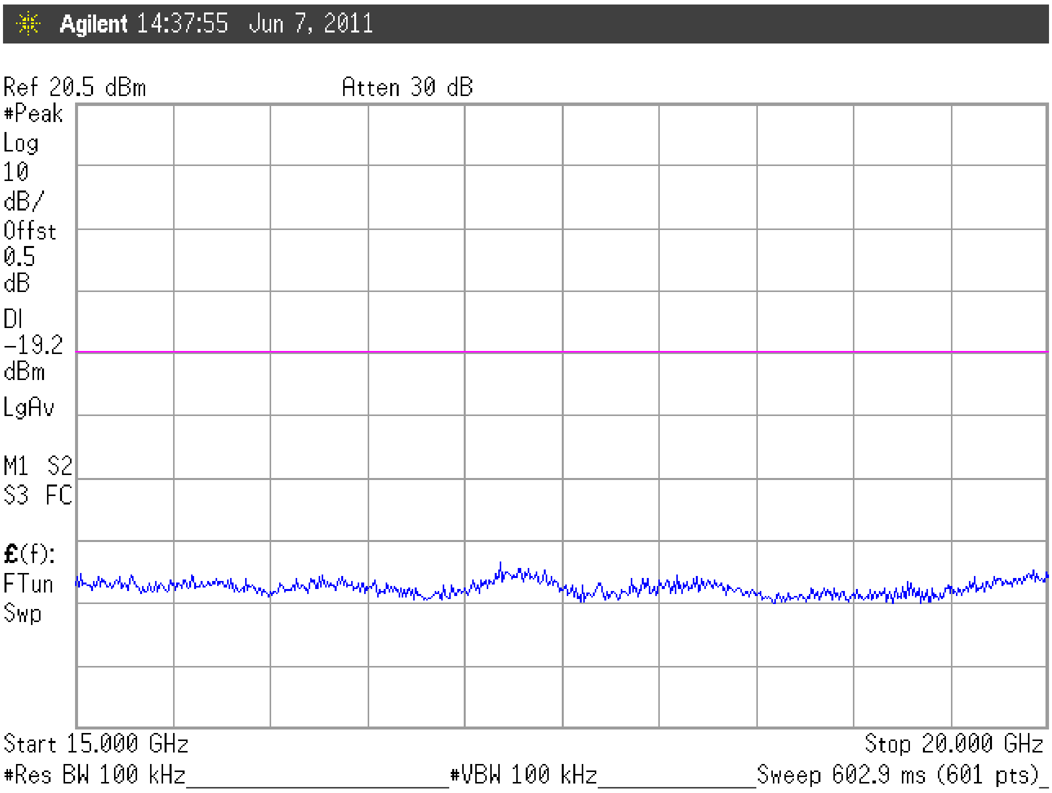
802.11n-HT20, Frequency: 2412MHz

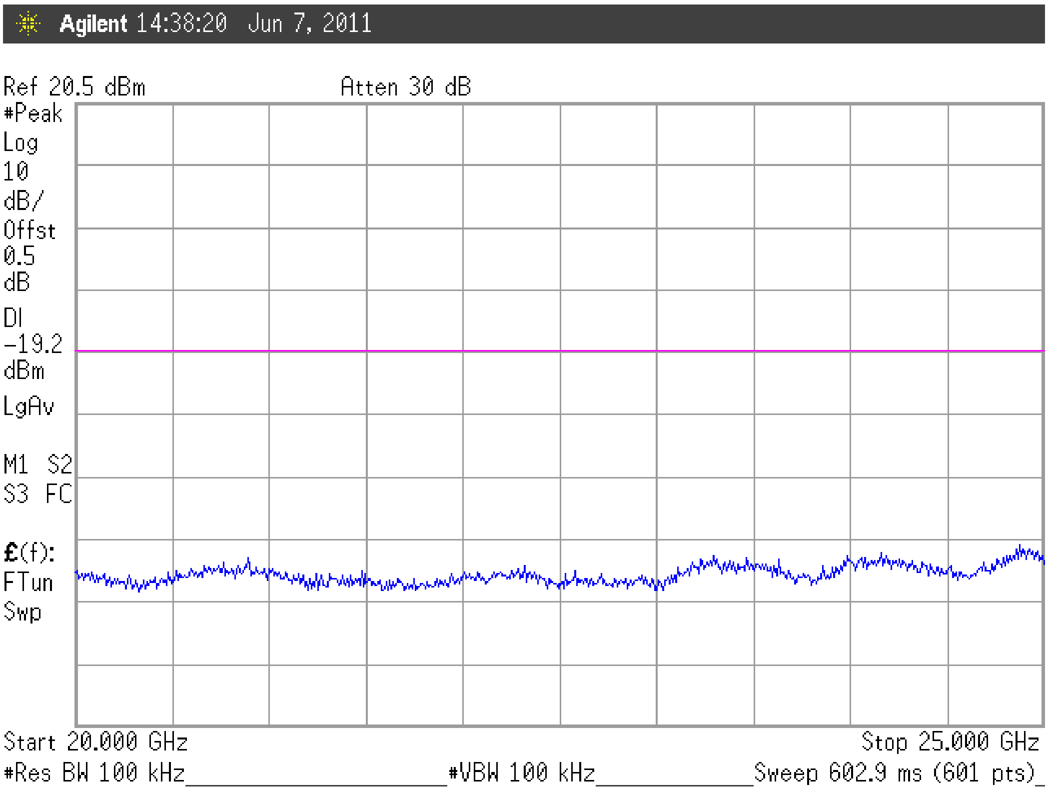




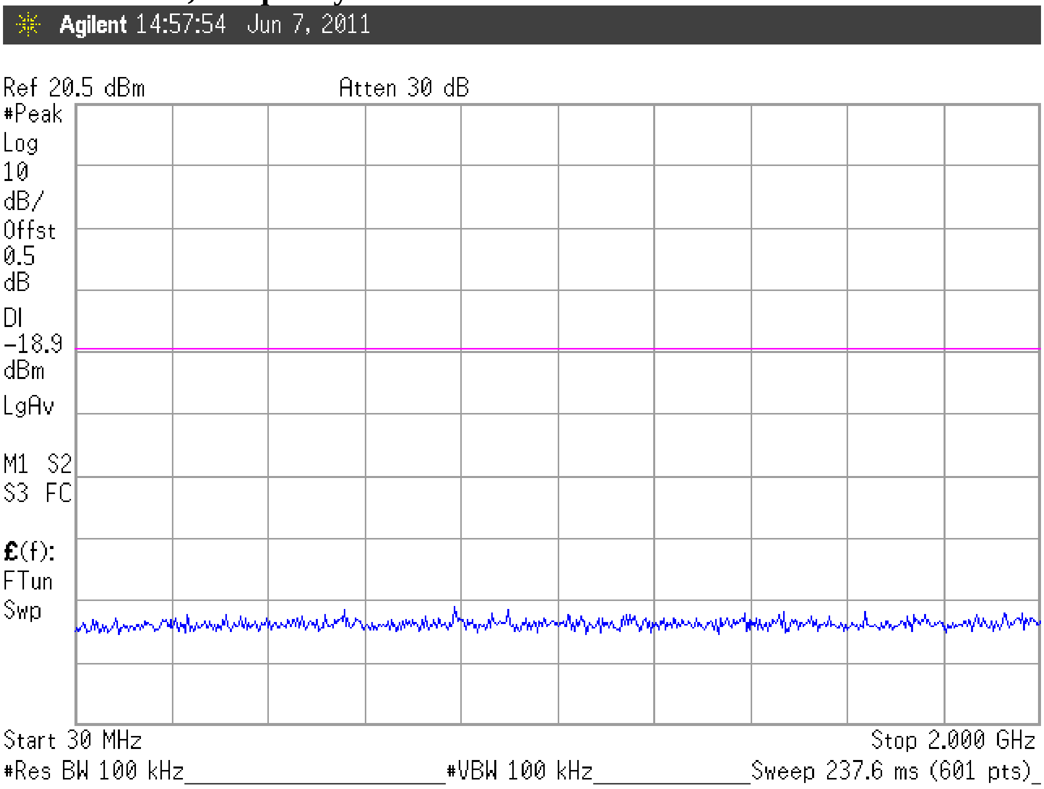

Agilent 14:37:02 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-19.2
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

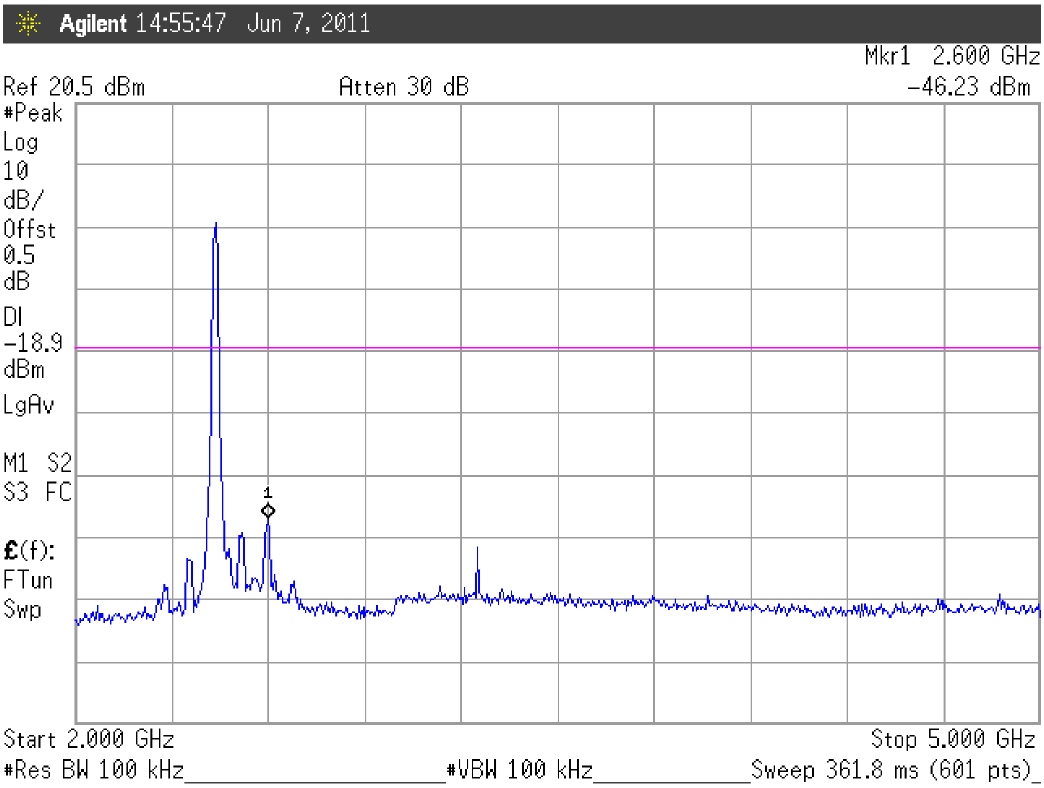

Agilent 14:37:28 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-19.2
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

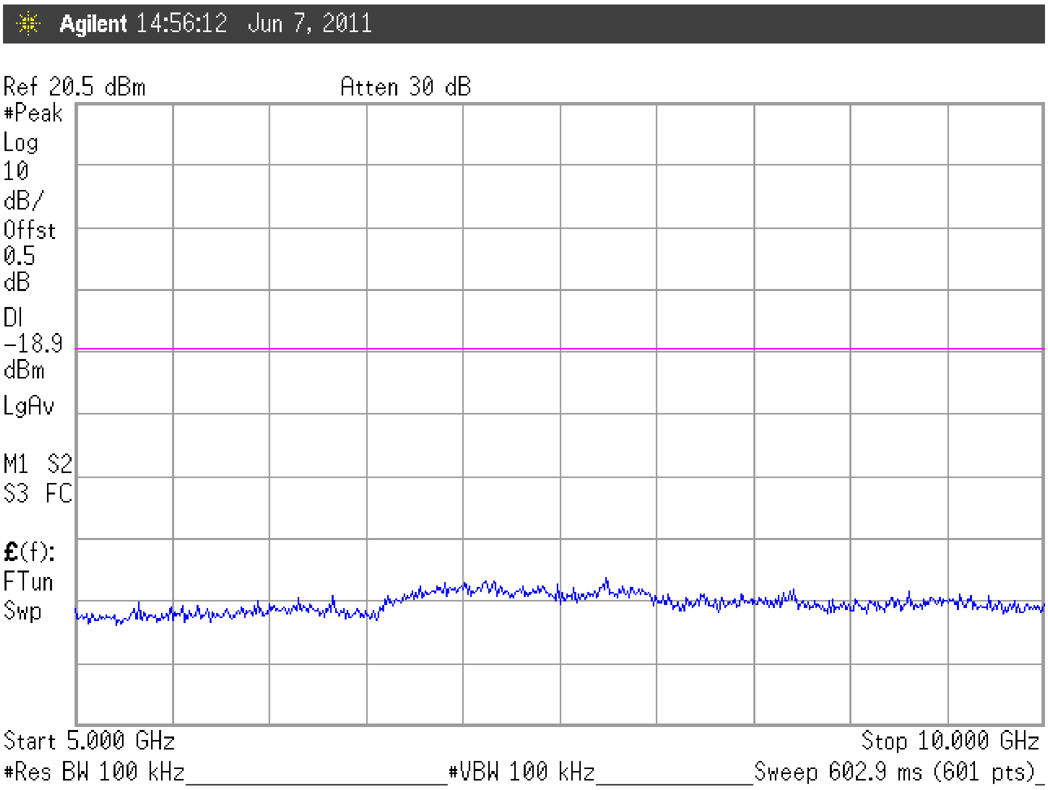

Agilent 14:37:55 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-19.2
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

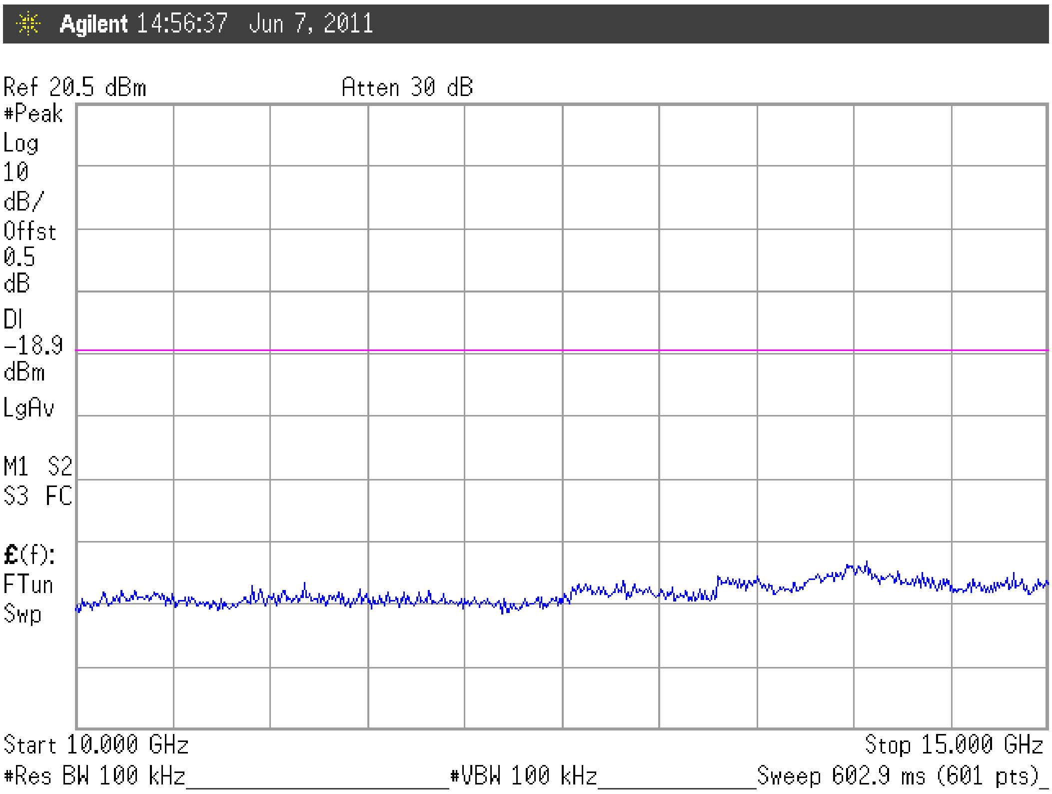

Agilent 14:38:20 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-19.2
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

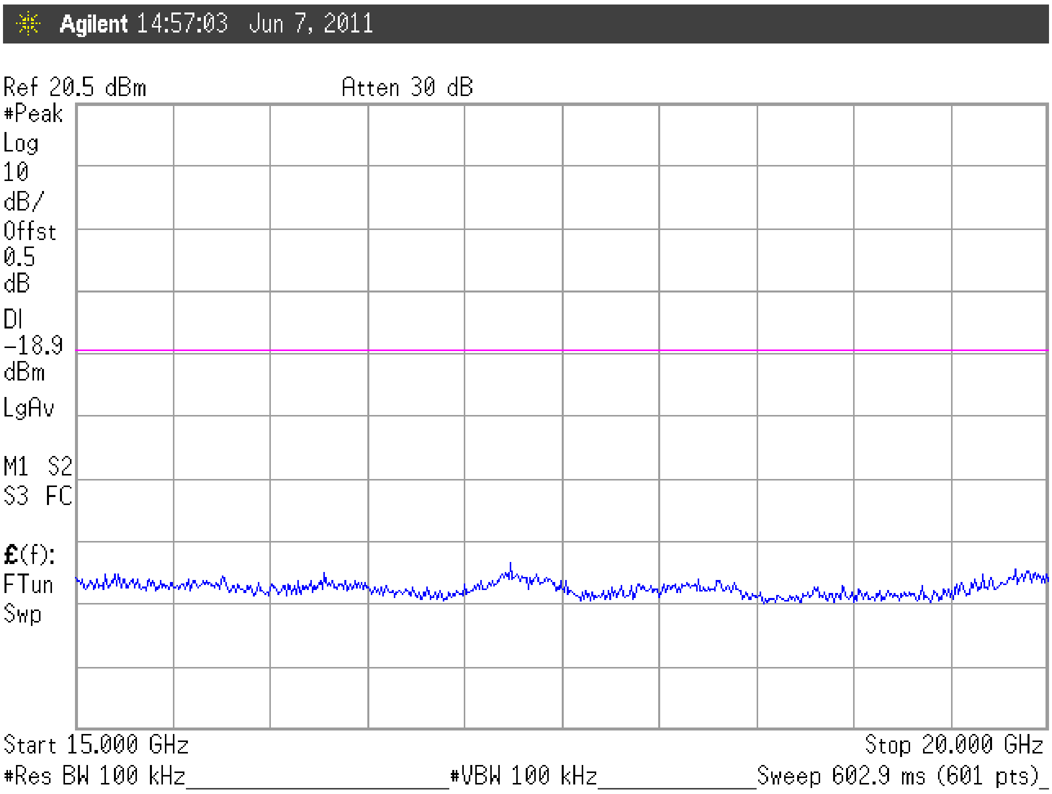
802.11n-HT20, Frequency: 2437MHz

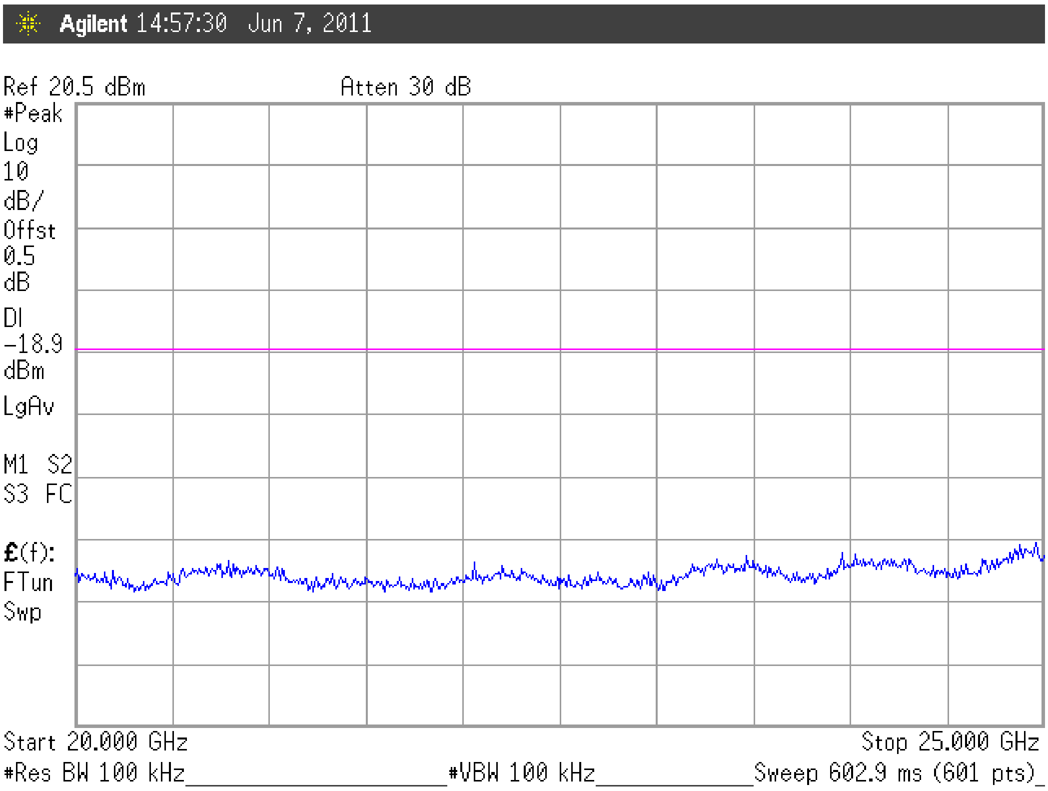




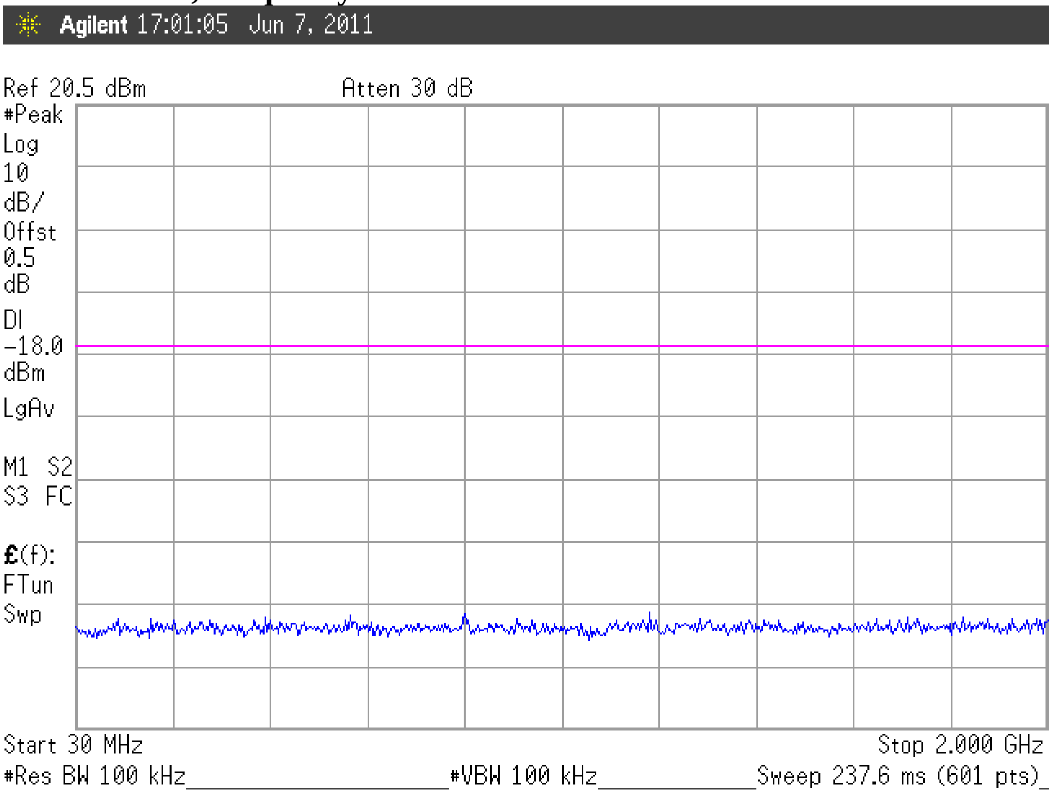

Agilent 14:56:12 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-18.9
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

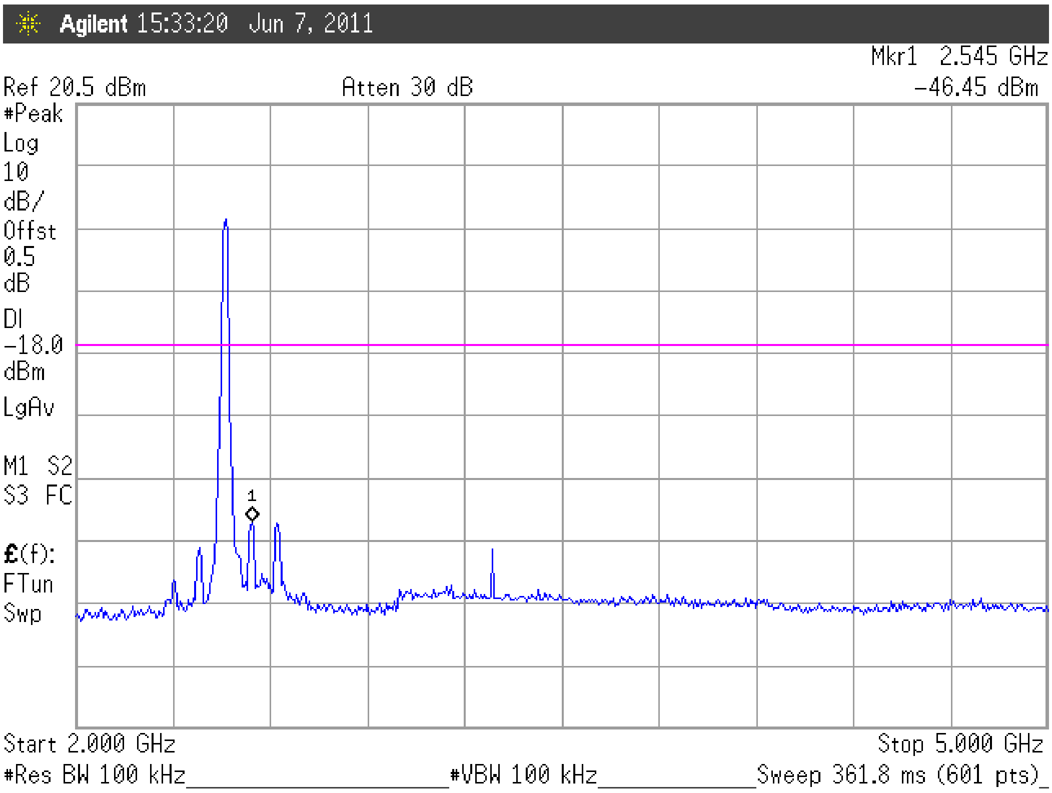

Agilent 14:56:37 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-18.9
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

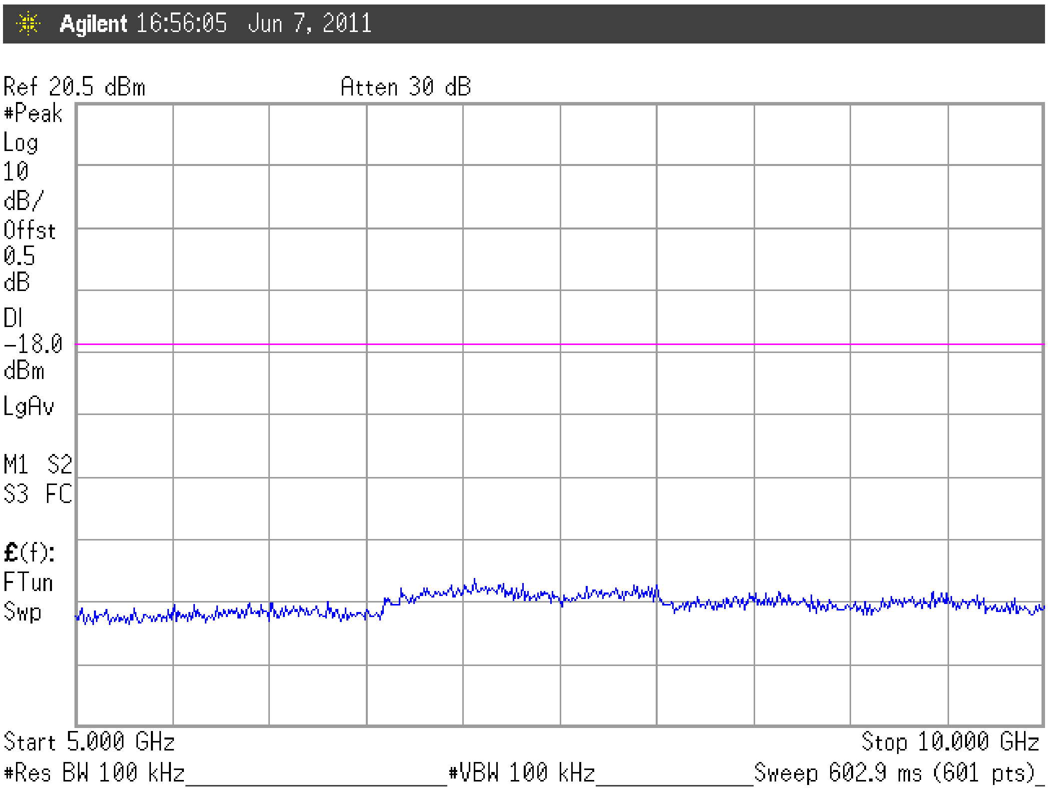

Agilent 14:57:03 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-18.9
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

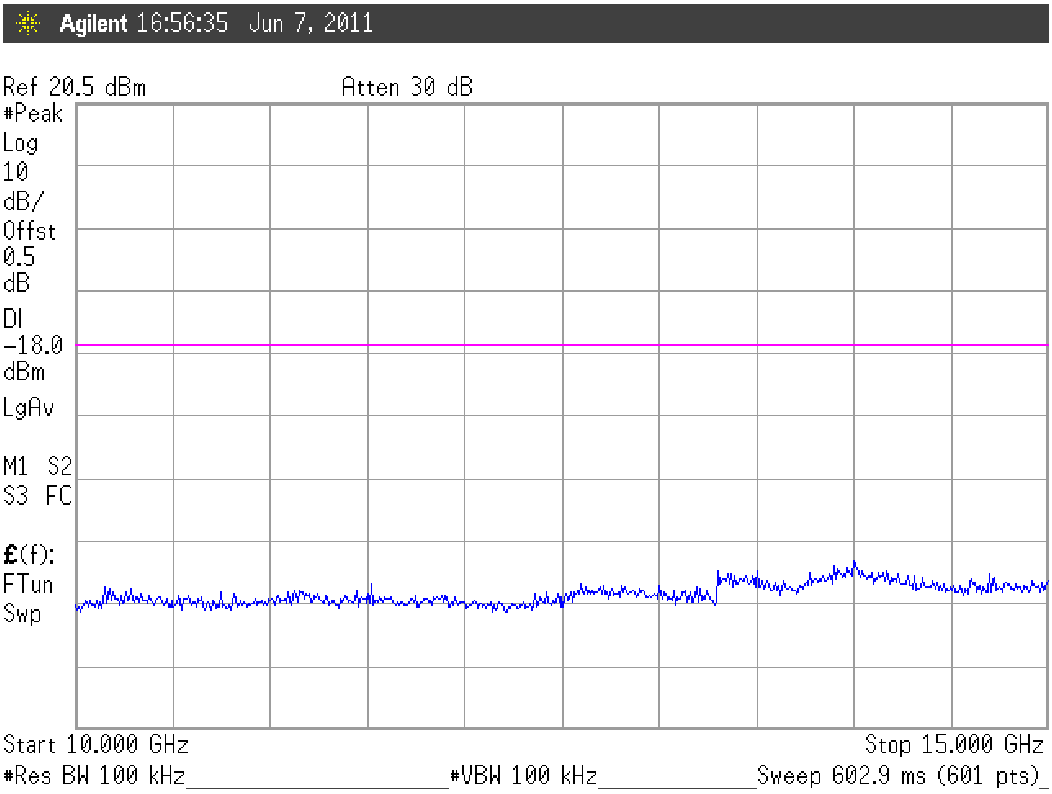

Agilent 14:57:30 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-18.9
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

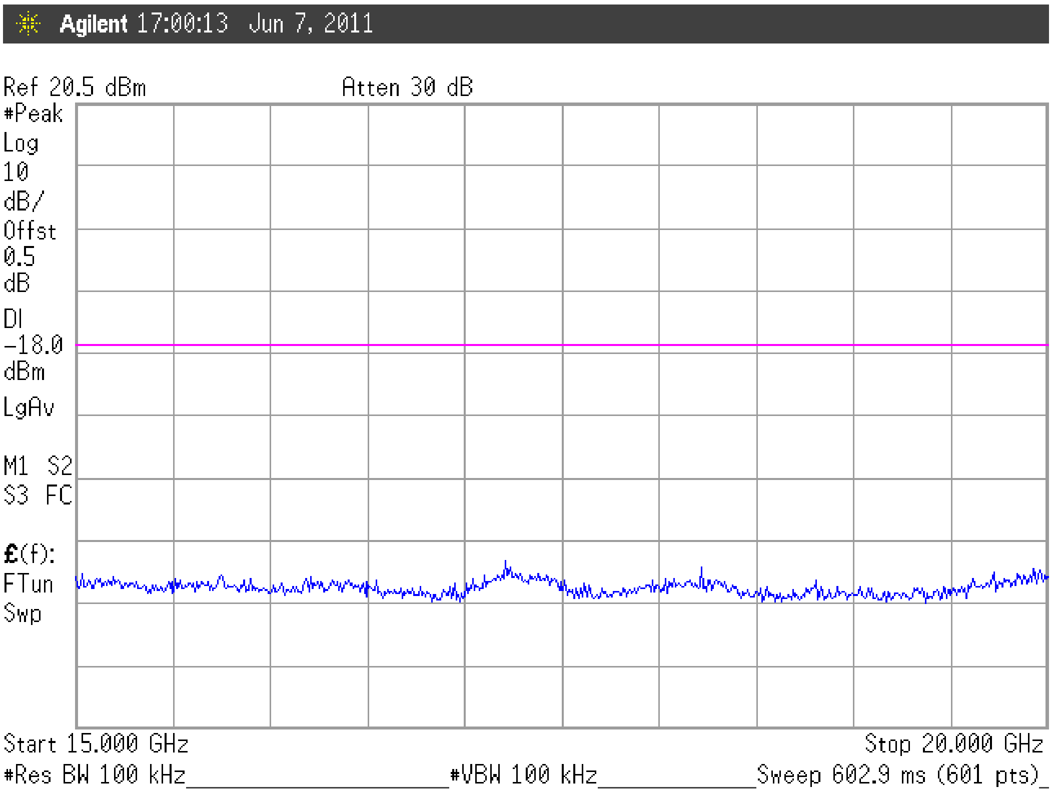
802.11n-HT20, Frequency: 2462MHz

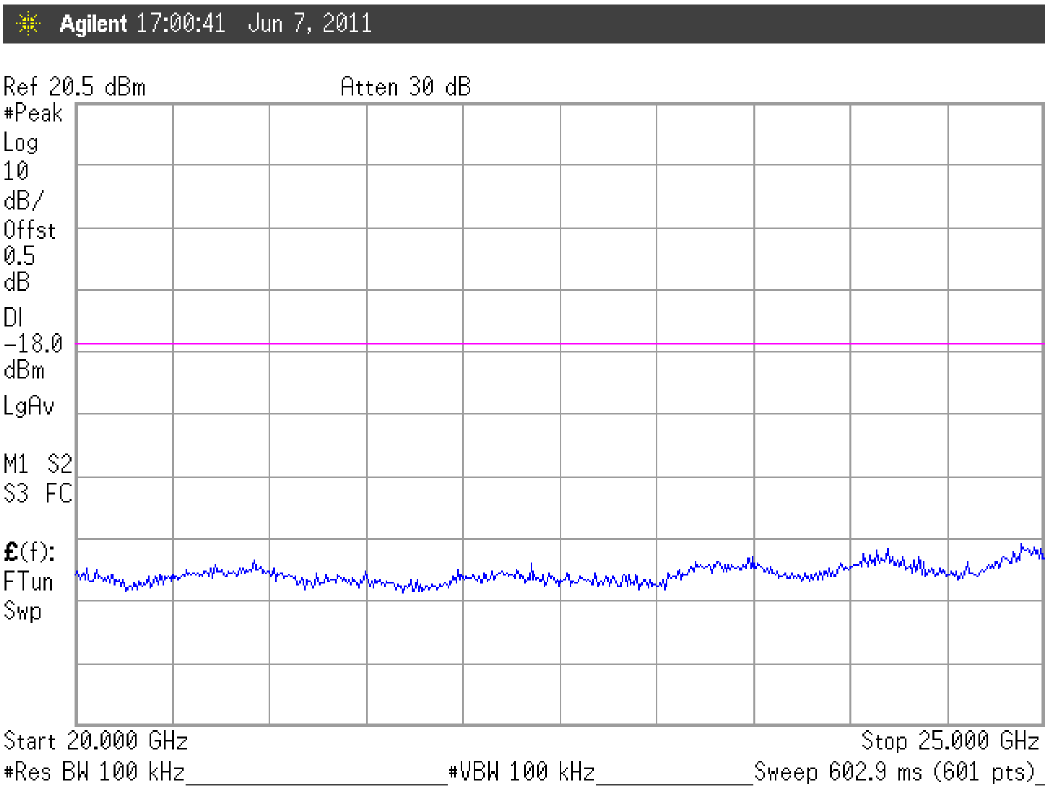




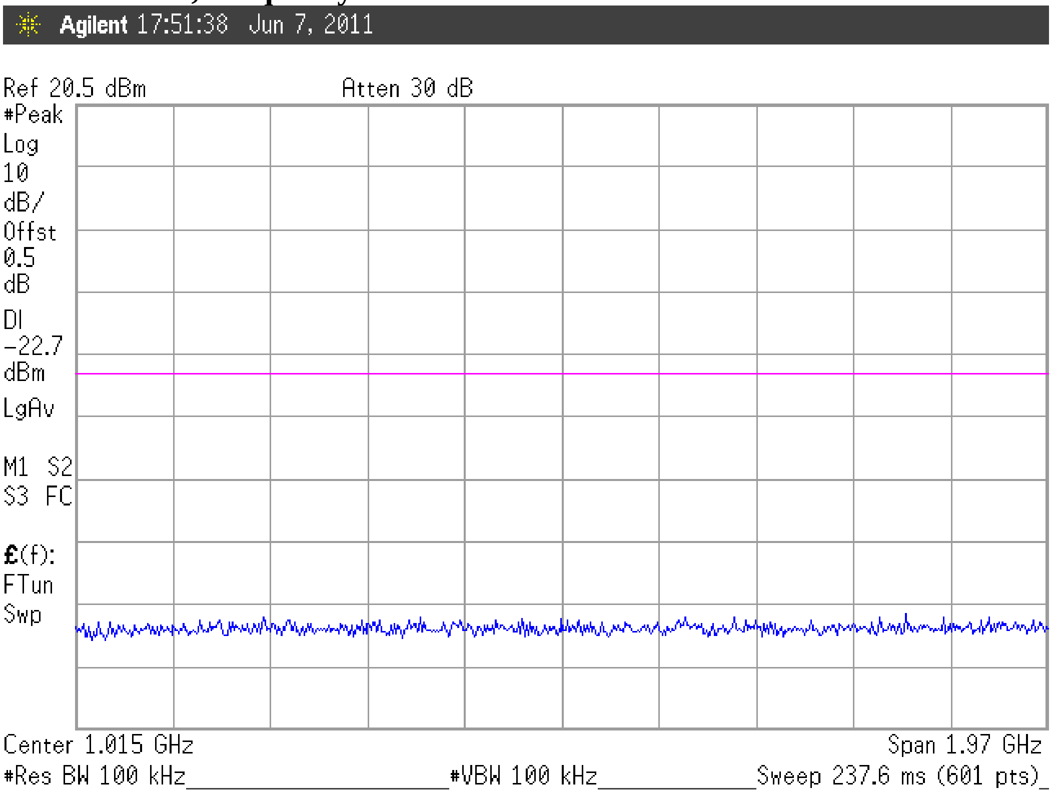

Agilent 16:56:05 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-18.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

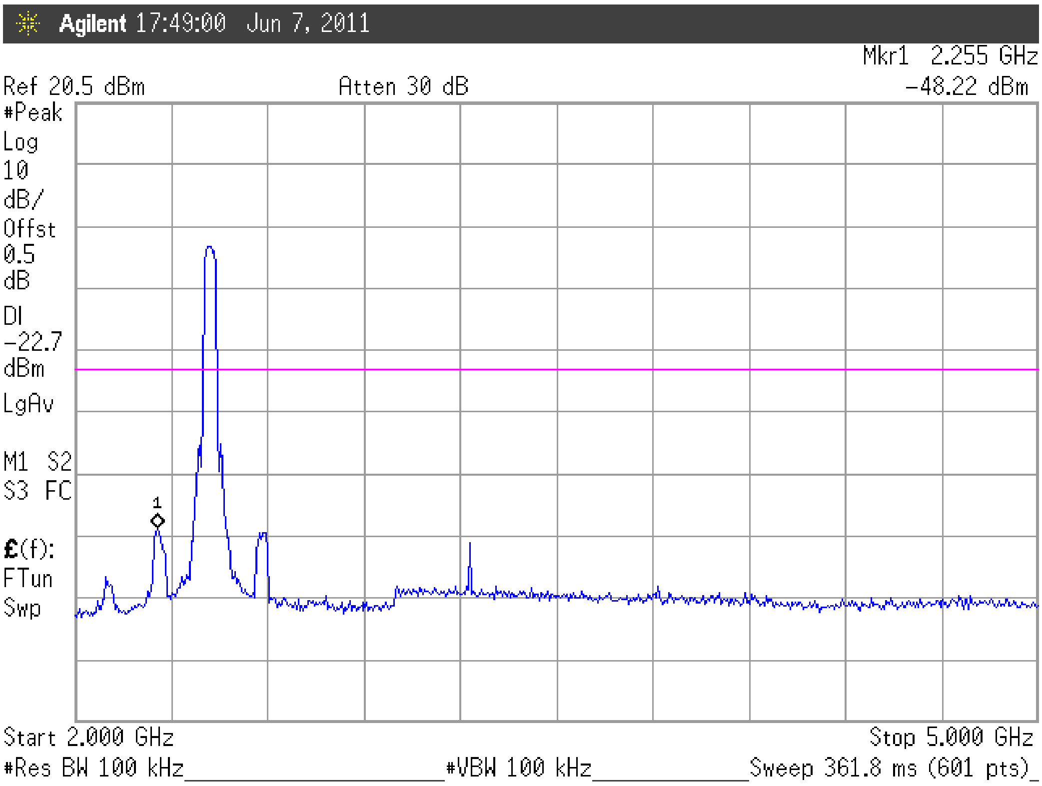

Agilent 16:56:35 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-18.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

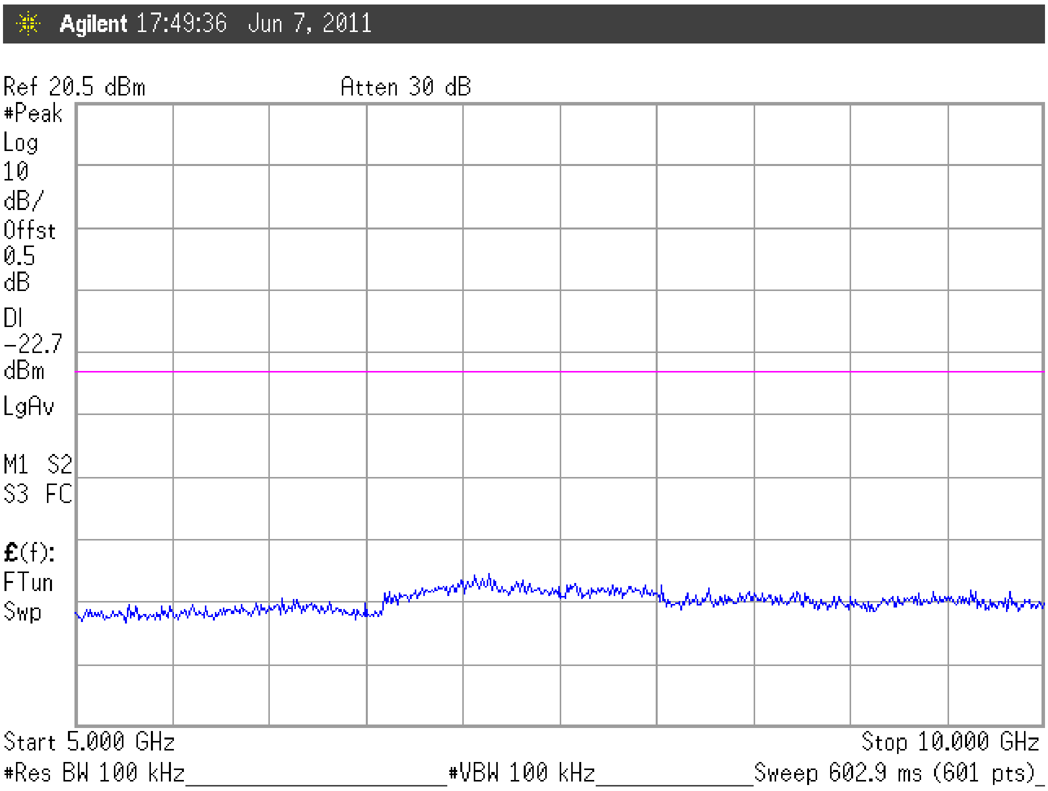

Agilent 17:00:13 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-18.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

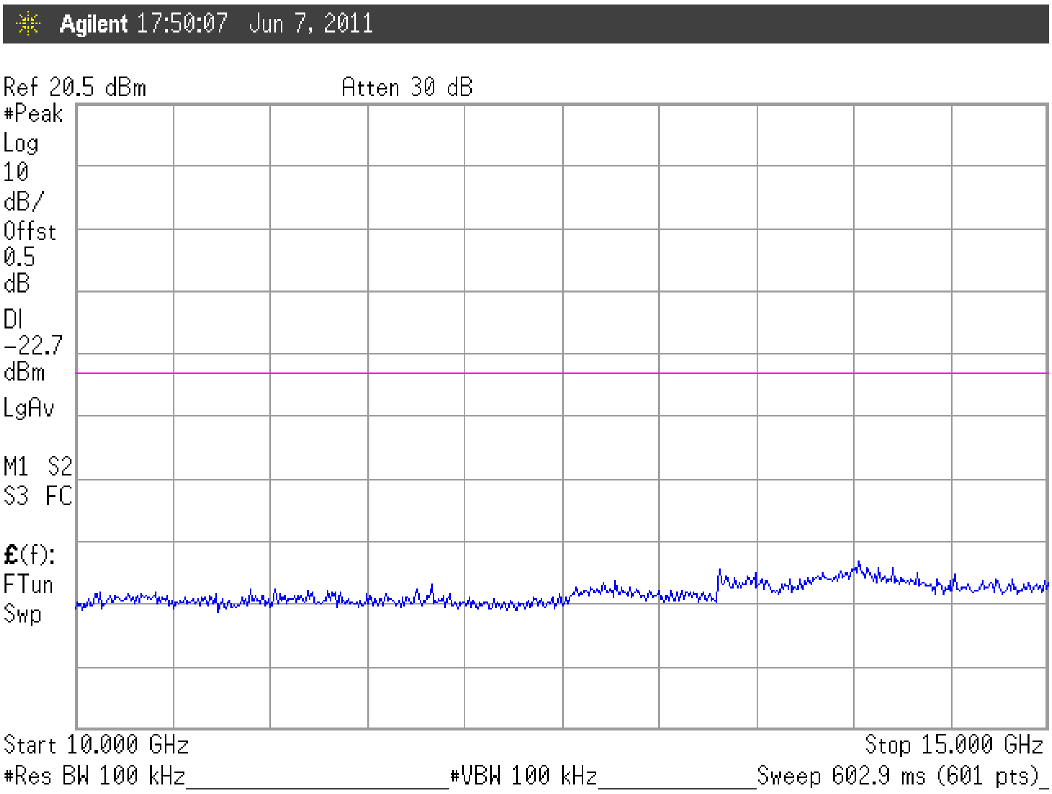

Agilent 17:00:41 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-18.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

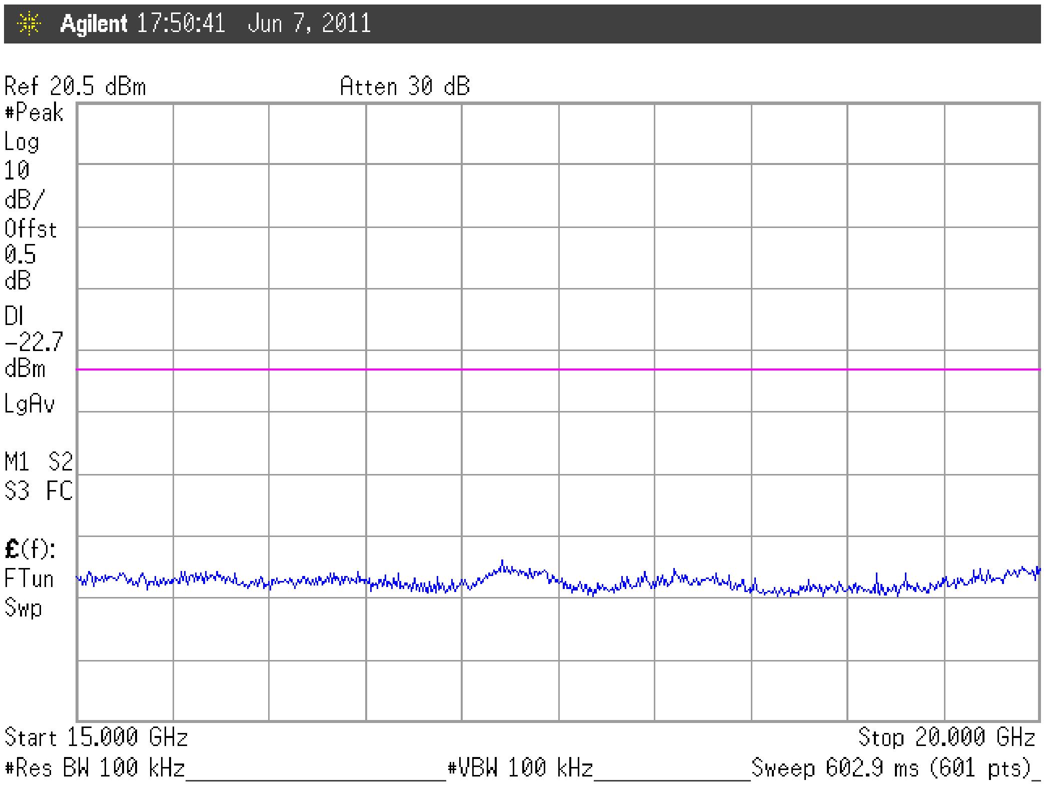
802.11n-HT40, Frequency: 2422MHz

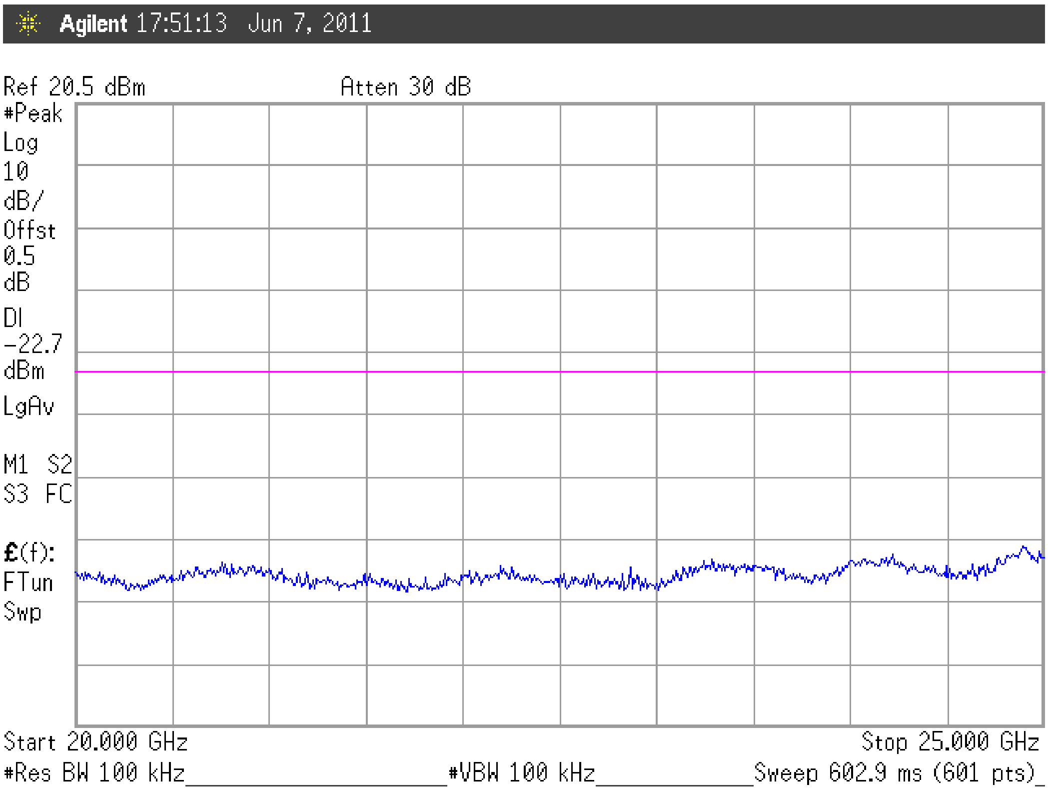




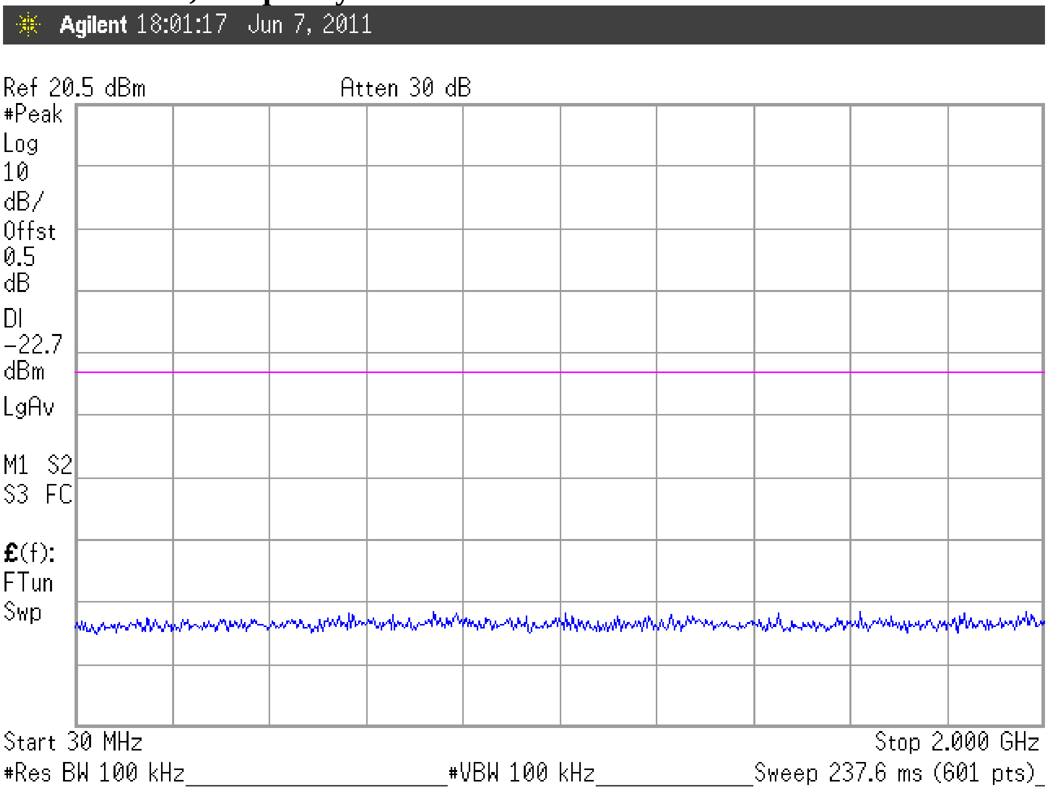

Agilent 17:49:36 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-22.7
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

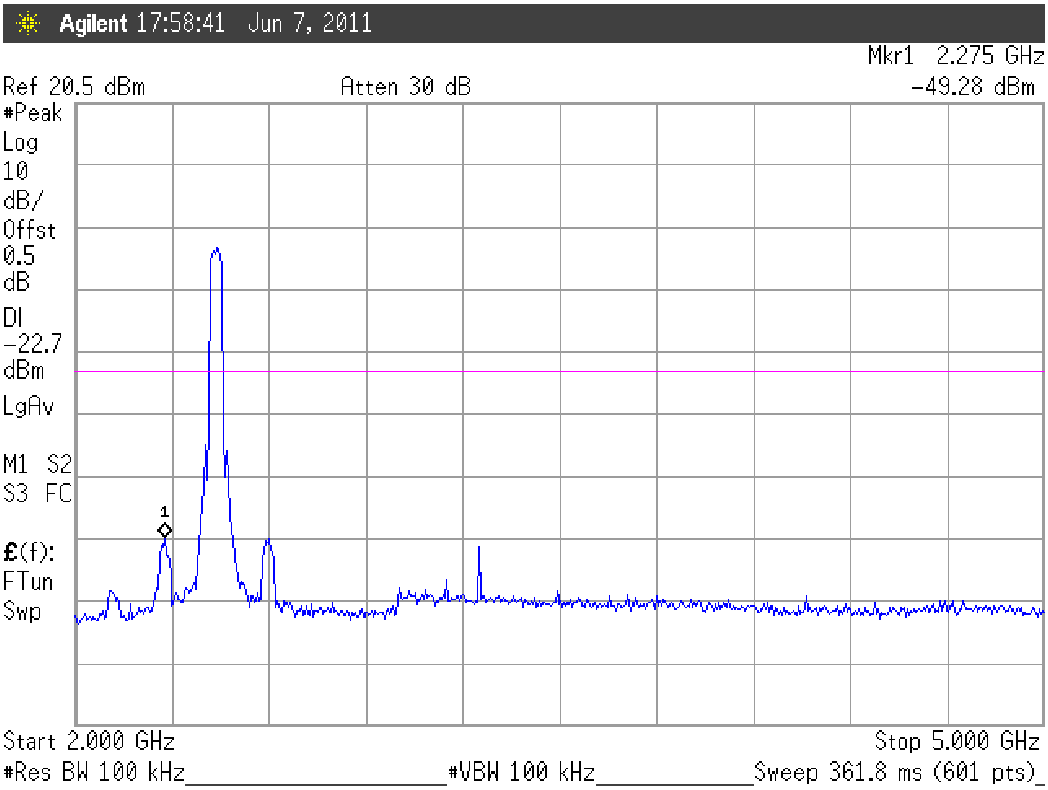

Agilent 17:50:07 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-22.7
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

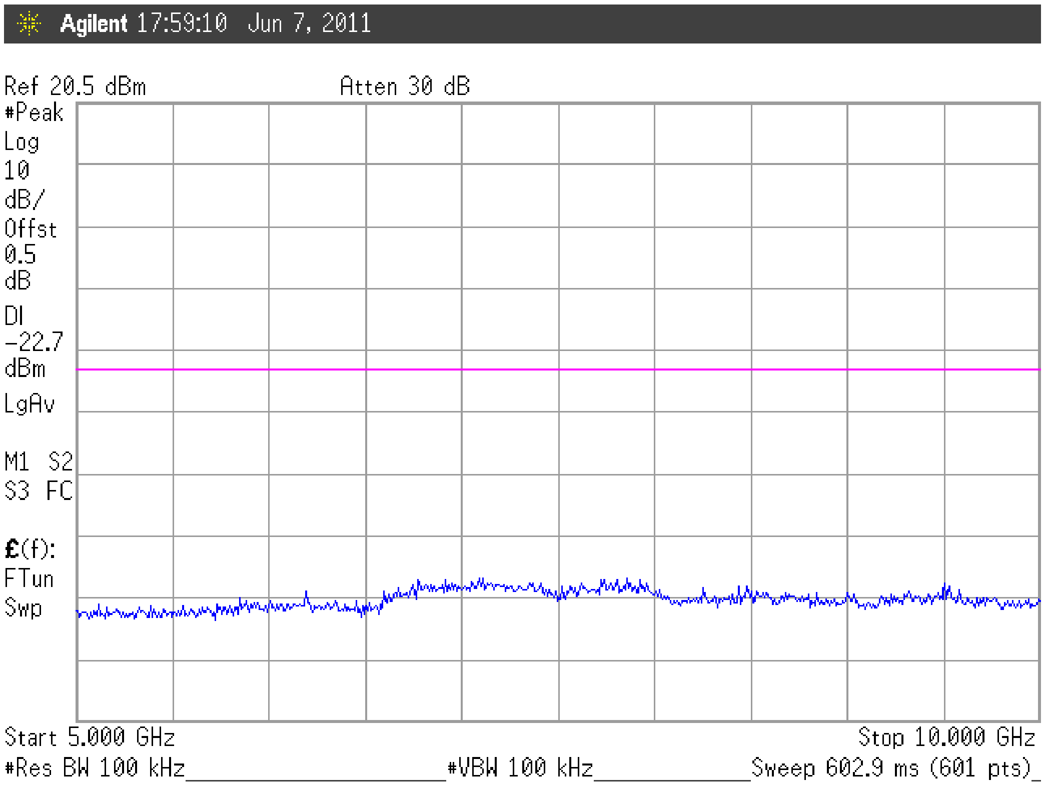

Agilent 17:50:41 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-22.7
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

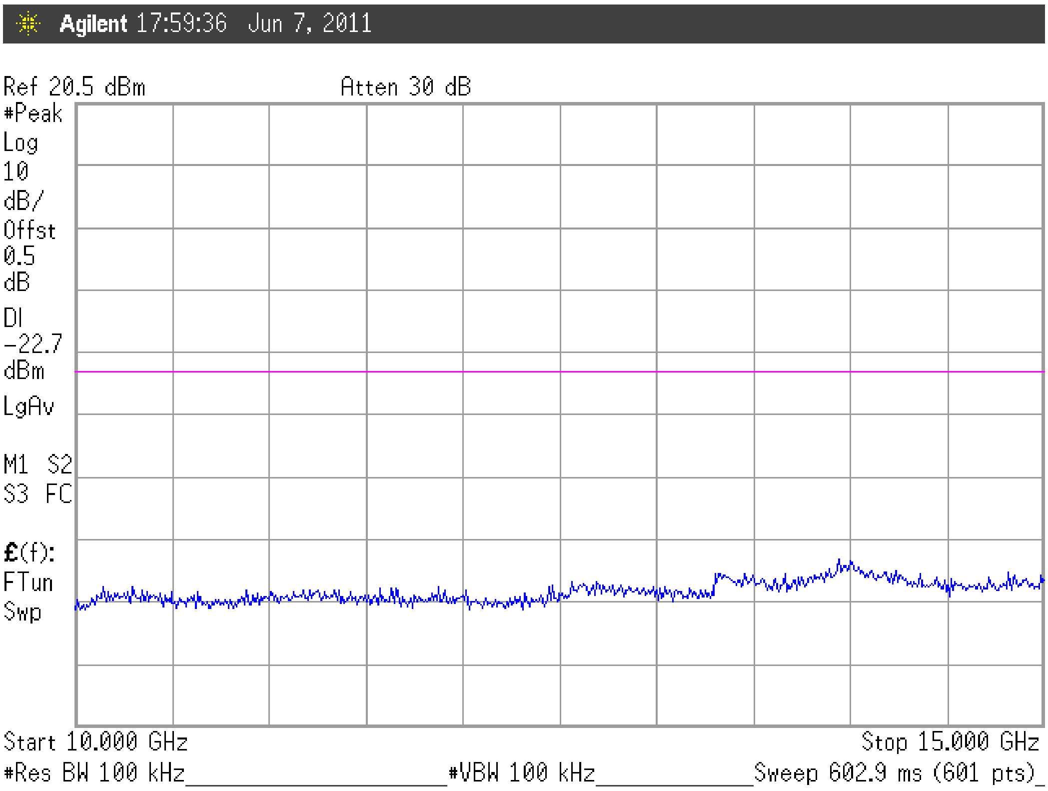

Agilent 17:51:13 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-22.7
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

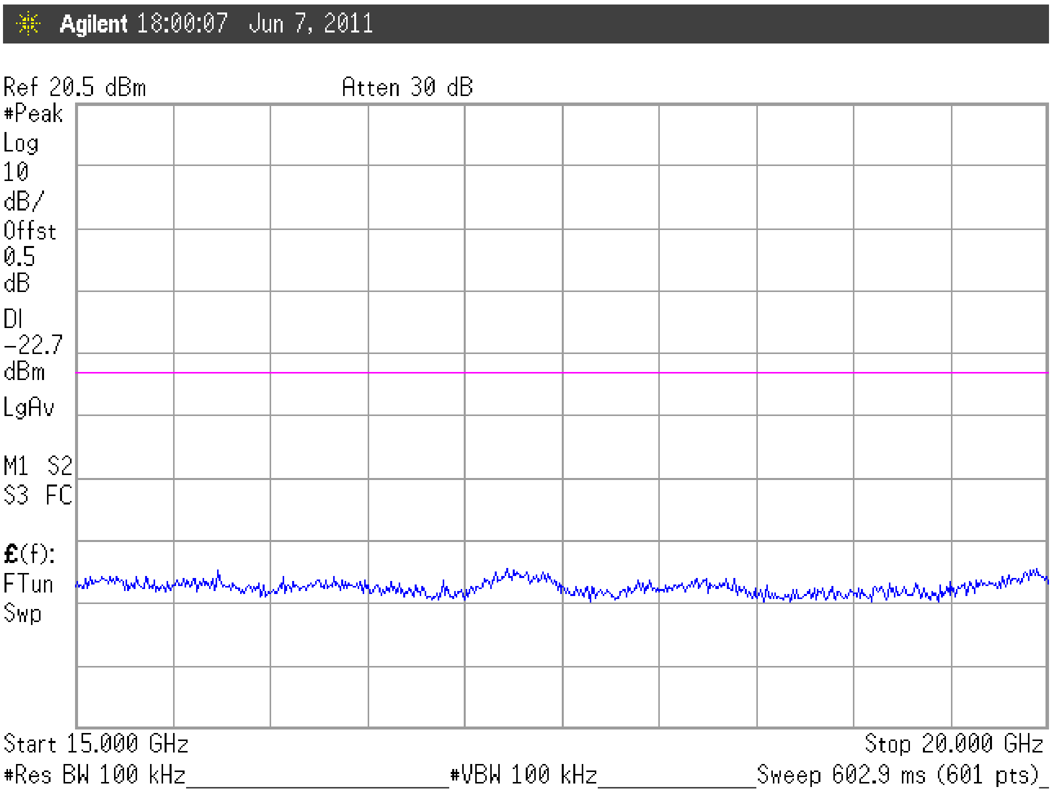
802.11n-HT40, Frequency: 2437MHz

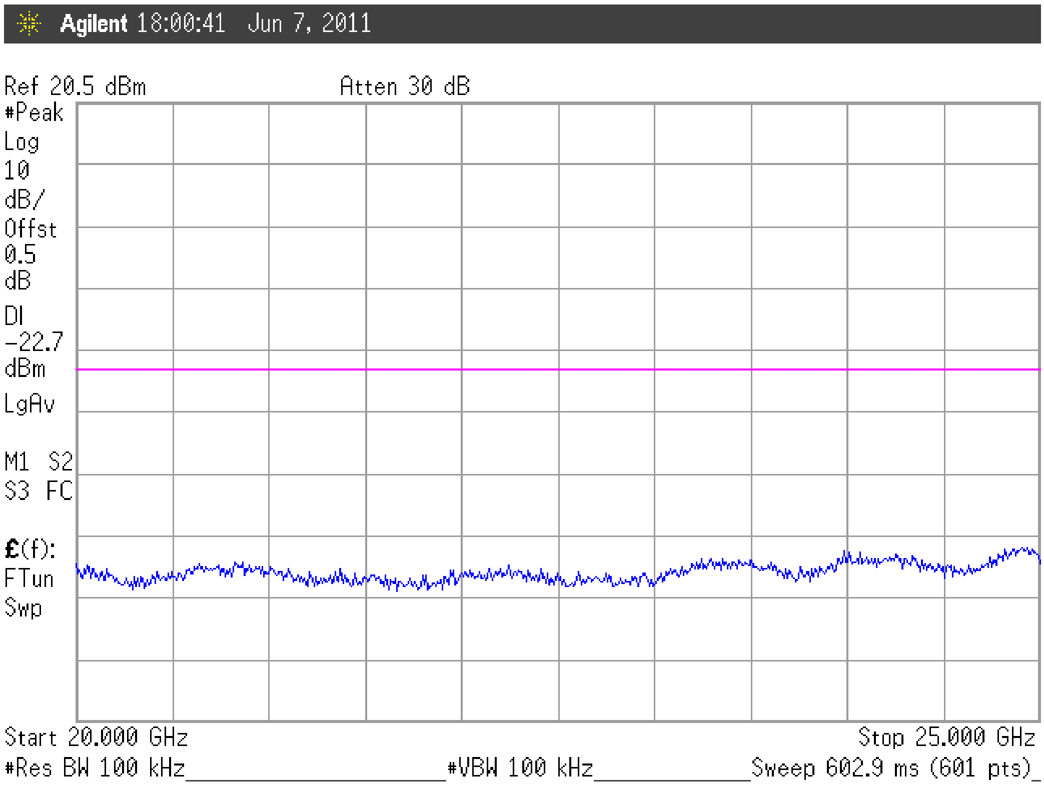




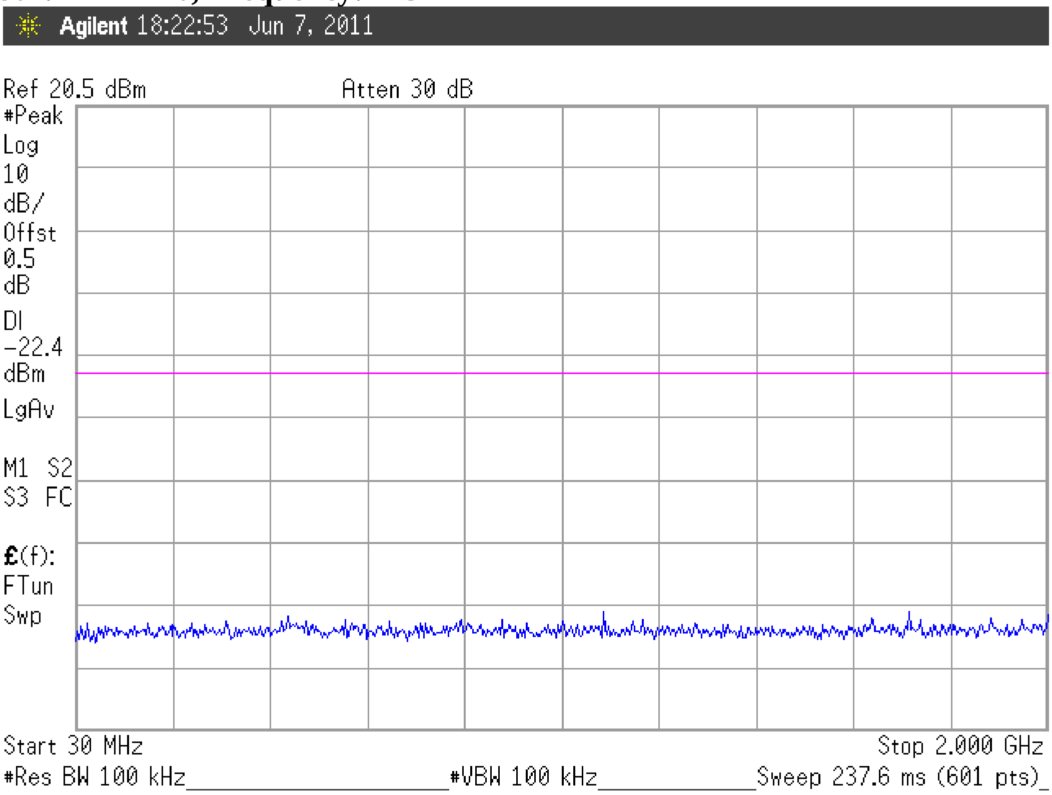

Agilent 17:59:10 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-22.7
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

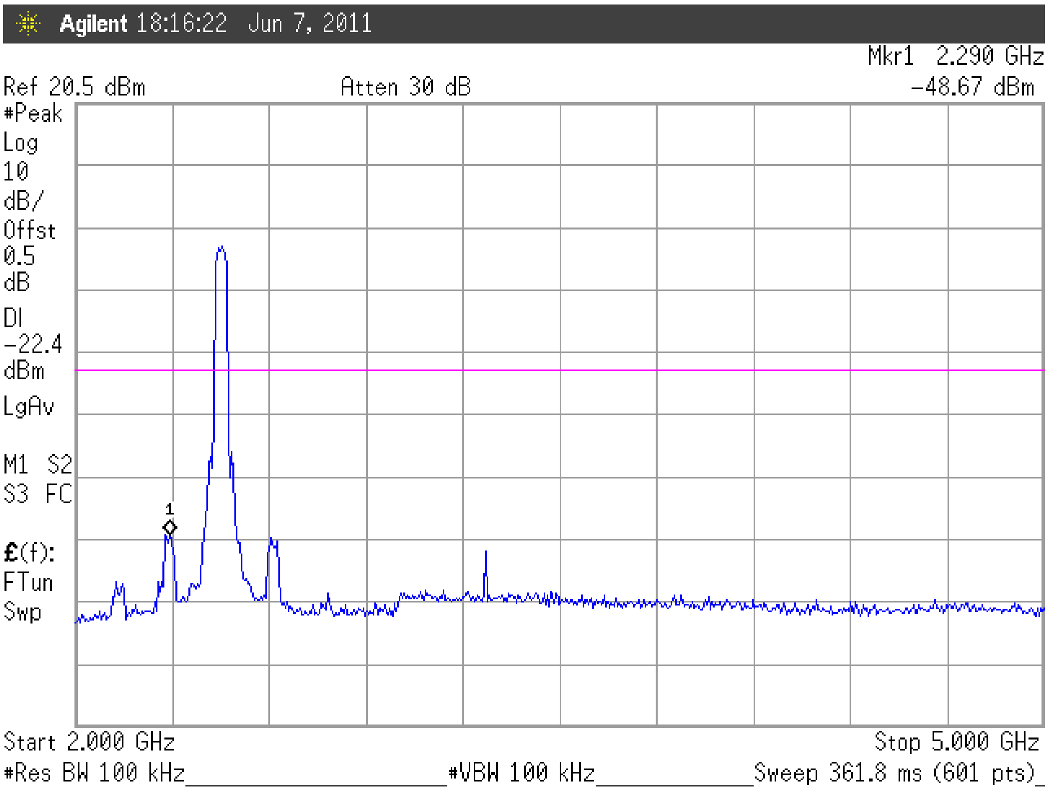

Agilent 17:59:36 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-22.7
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

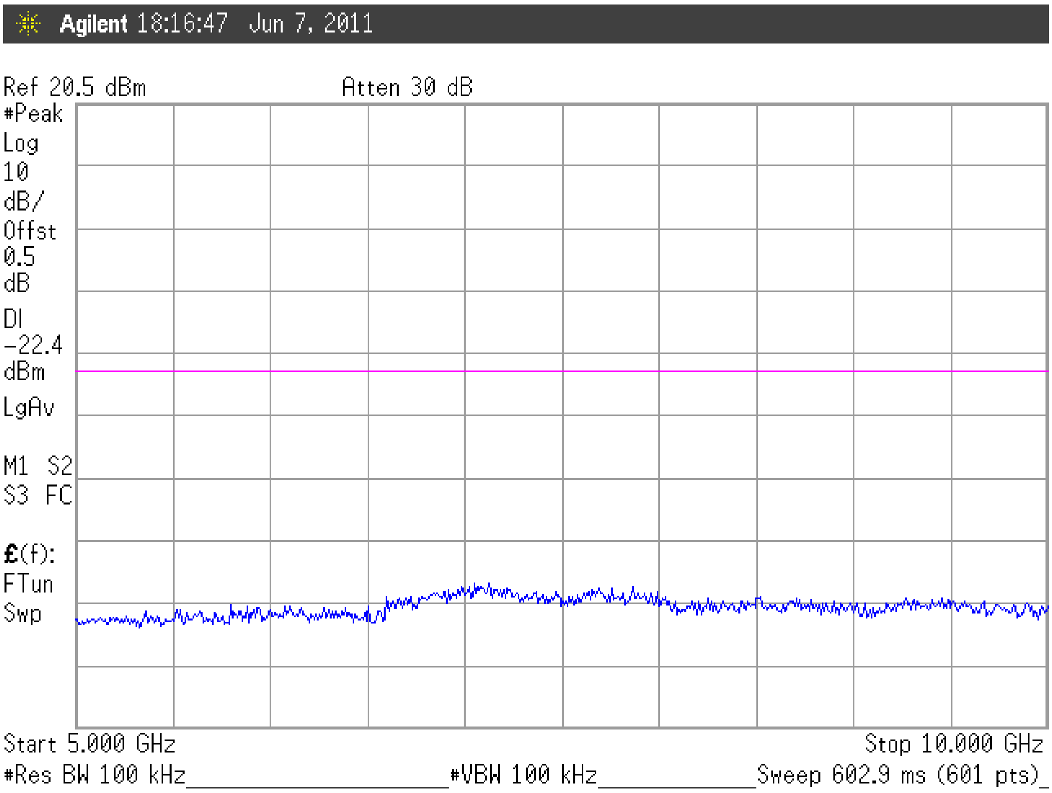

Agilent 18:00:07 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-22.7
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

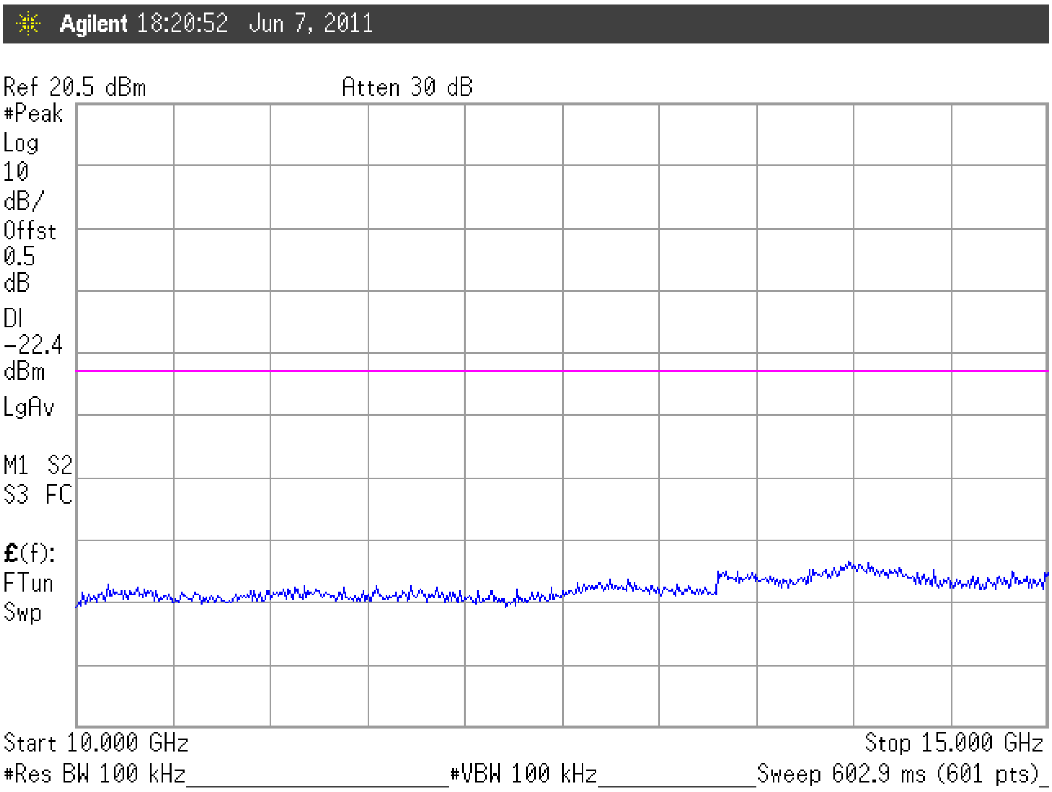

Agilent 18:00:41 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-22.7
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

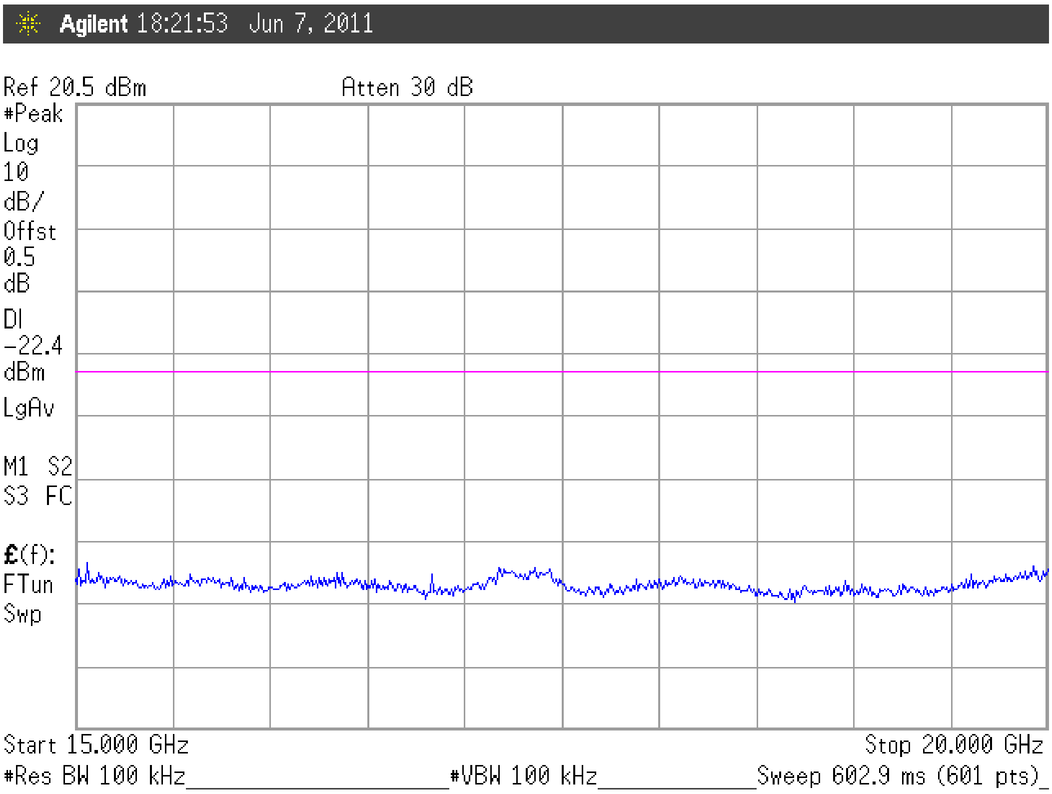
802.11n-HT40, Frequency: 2452MHz

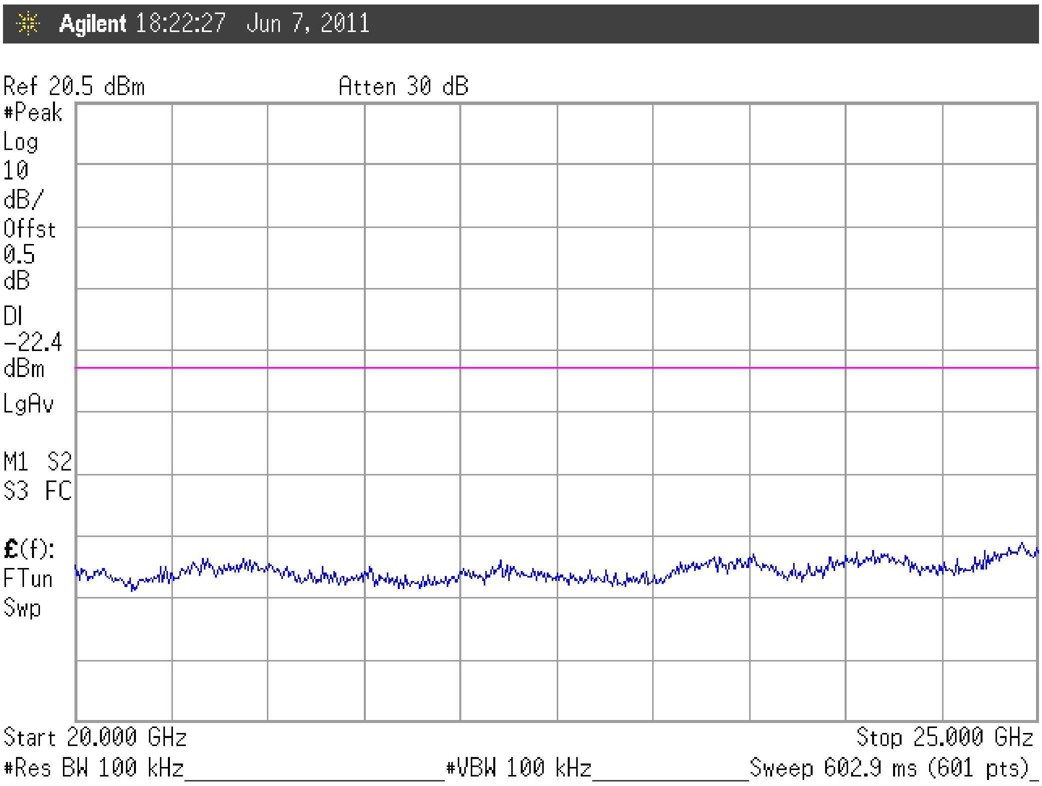





Agilent 18:16:47 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-22.4
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)


Agilent 18:20:52 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-22.4
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)


Agilent 18:21:53 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-22.4
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)


Agilent 18:22:27 Jun 7, 2011
Ref 20.5 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
0.5
dB
Dl
-22.4
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 602.9 ms (601 pts)

7. BAND EDGES MEASUREMENT

7.1. Test Equipment

The following test equipment was used during the band edges measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10’	Aug. 03, 11’

7.2. Block Diagram of Test Setup

The same as section.4.2.

7.3. Specification Limits (§15.247(c))

The highest level should be at least 20 dB below that in the 100kHz bandwidth.

7.4. Operating Condition of EUT

The test program “Hyerterminal” was used to enable the EUT to transmit data at different channel frequency individually.

7.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.
The measurement guideline was according to KDB 558074.

7.6. Test Results

PASSED. All the test results are attached in next pages.

(Test Date: Jun. 07, 2011 Temperature : 26℃ Humidity : 51%)

802.11b
Below Band edge: The highest emission level is –47.61dBm on 2.39992GHz。
Upper Band edge : The highest emission level is –48.32dBm on 2.48350GHz。

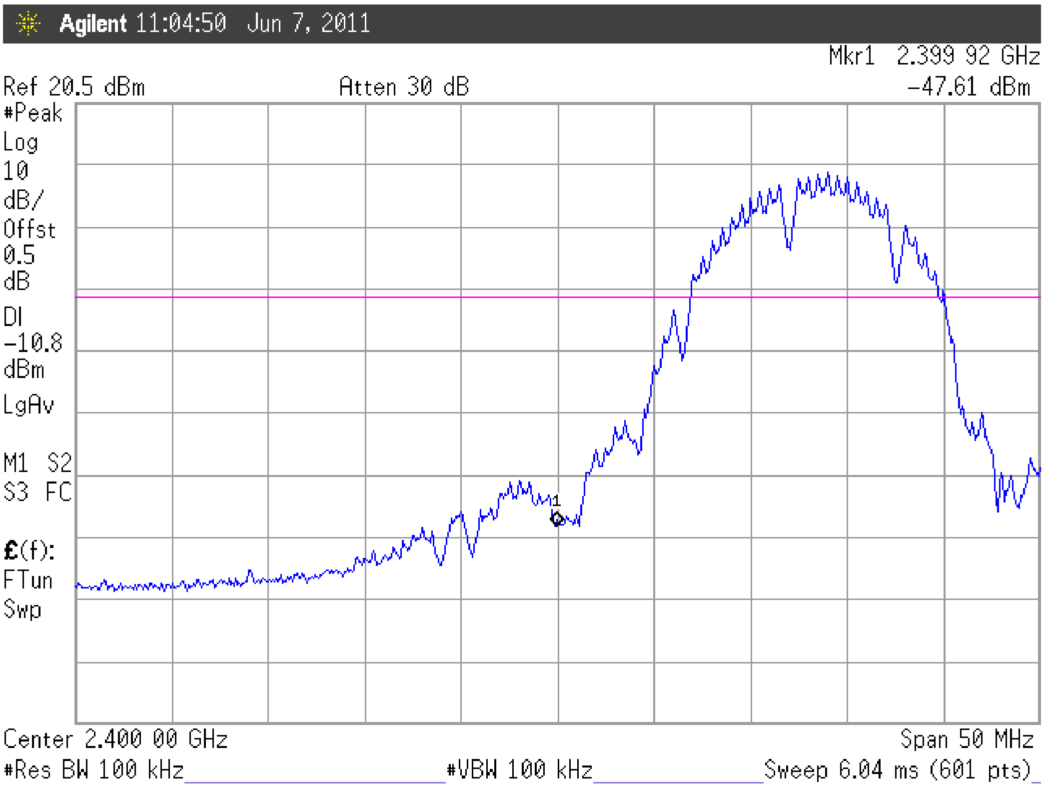
802.11g
Below Band edge: The highest emission level is –29.62dBm on 2.39992GHz。
Upper Band edge : The highest emission level is –41.83dBm on 2.48350GHz。

802.11n-HT20
Below Band edge: The highest emission level is –33.47dBm on 2.39992GHz。
Upper Band edge : The highest emission level is –41.59dBm on 2.48350GHz。

802.11n-HT40
Below Band edge: The highest emission level is –32.82dBm on 2.40000GHz。
Upper Band edge : The highest emission level is –42.66dBm on 2.48350GHz。

802.11b

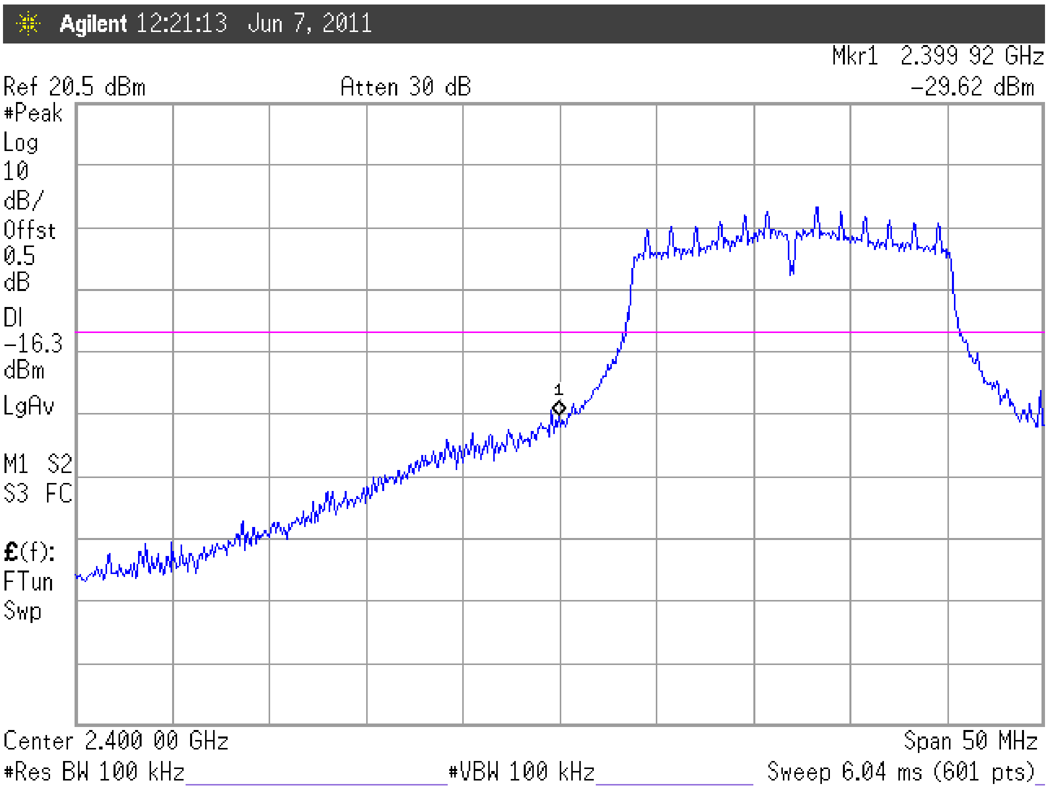
Below Band edge



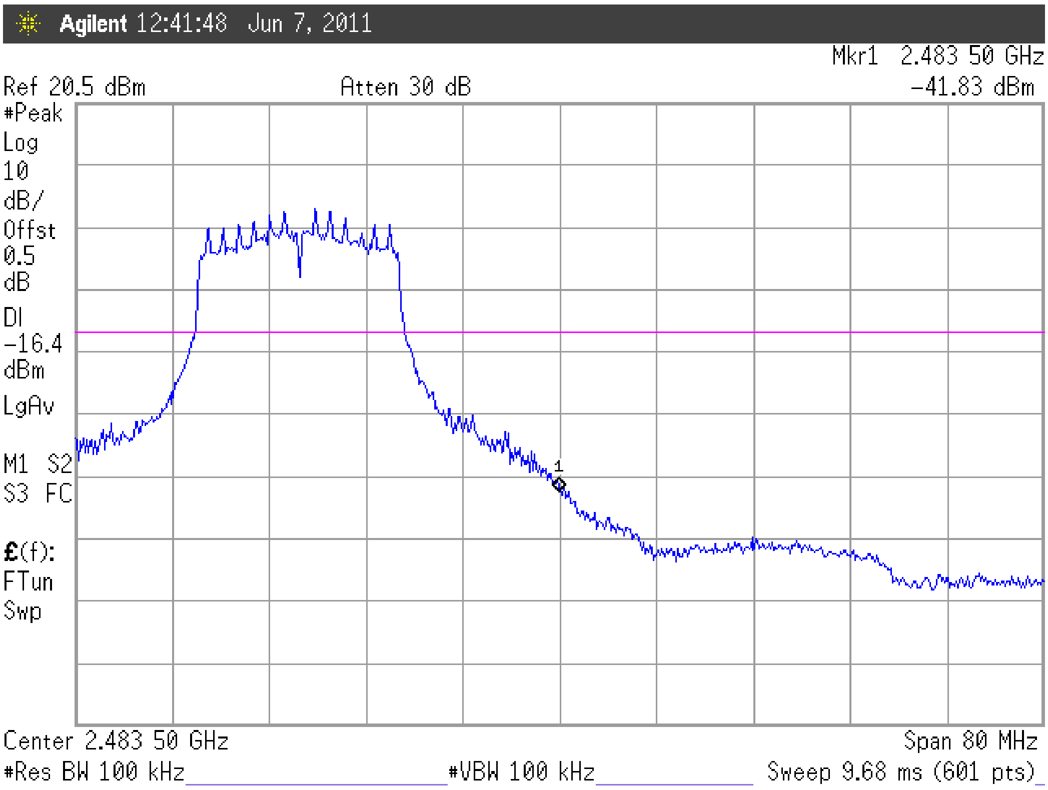
Upper Band edge

802.11g

Below Band edge

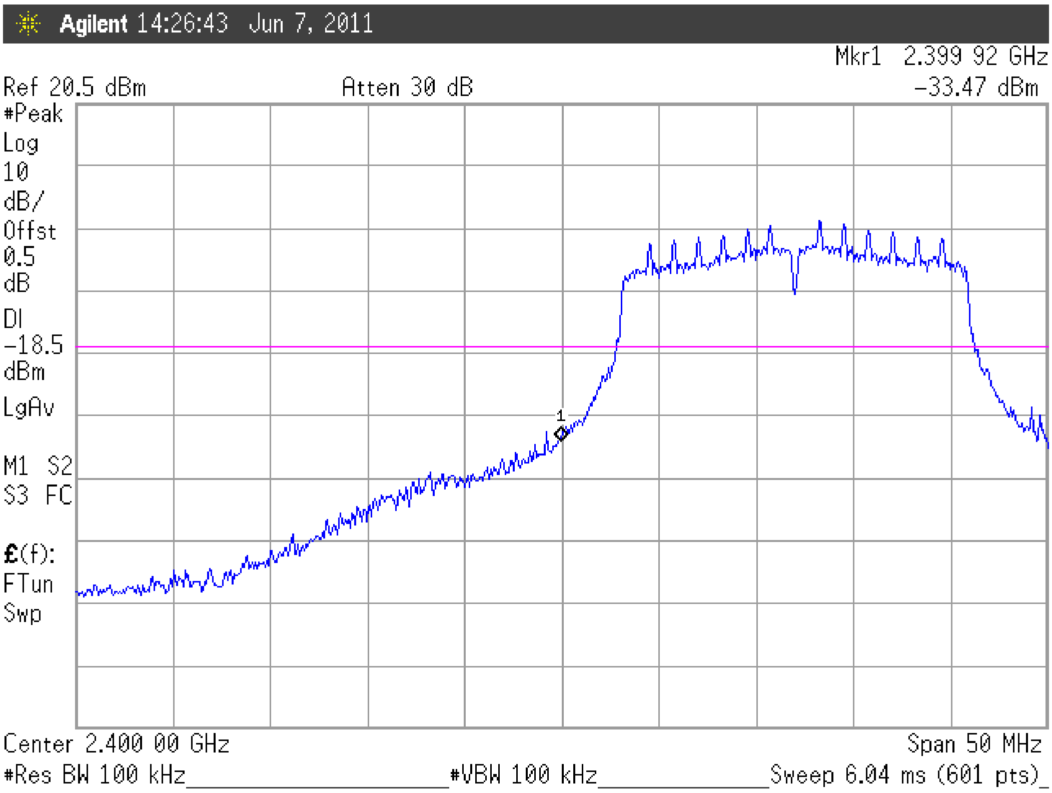


Upper Band edge

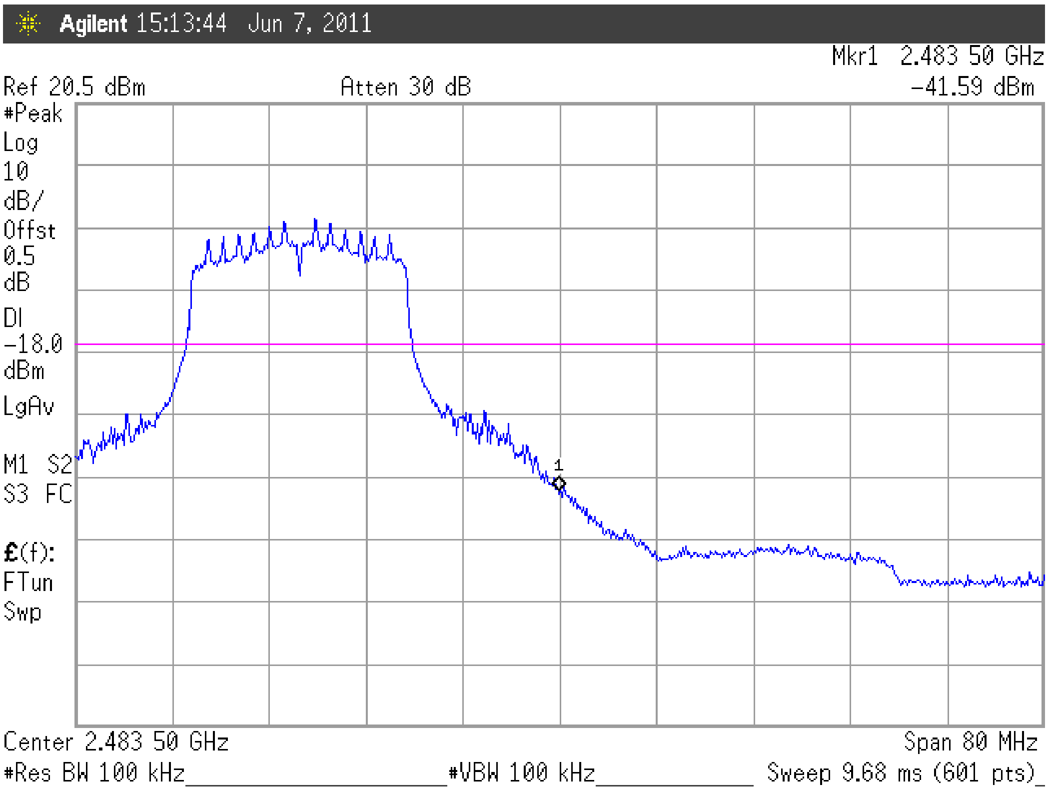


802.11n-HT20

Below Band edge

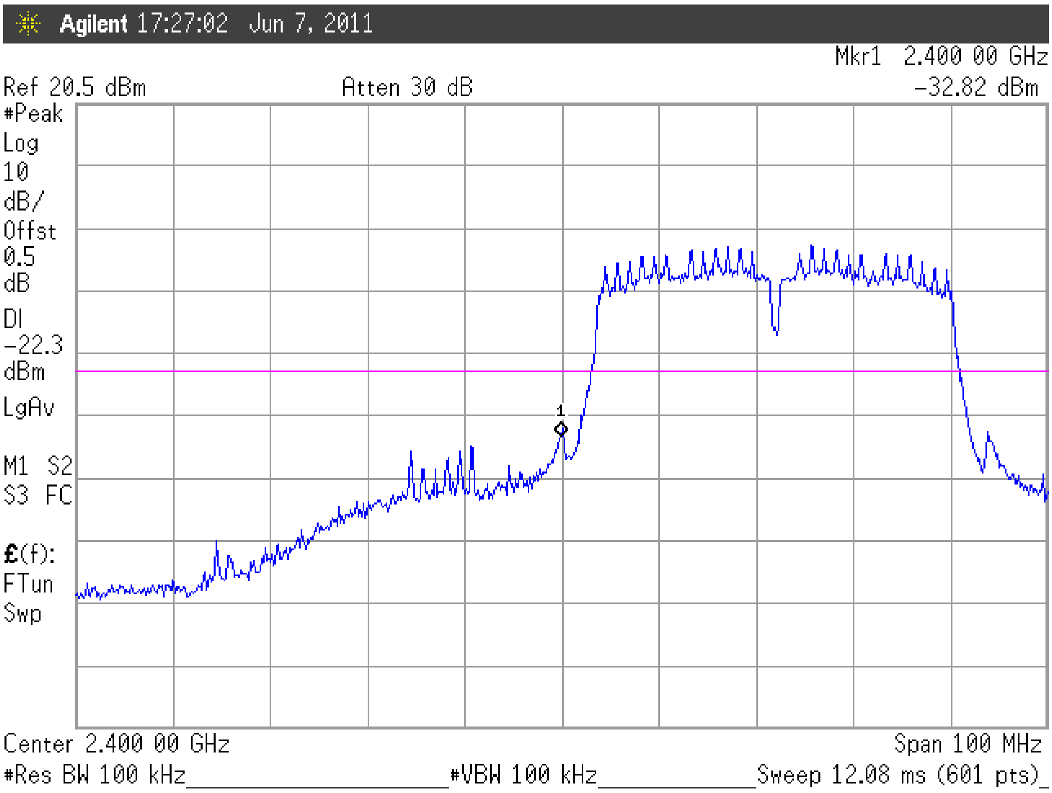


Upper Band edge

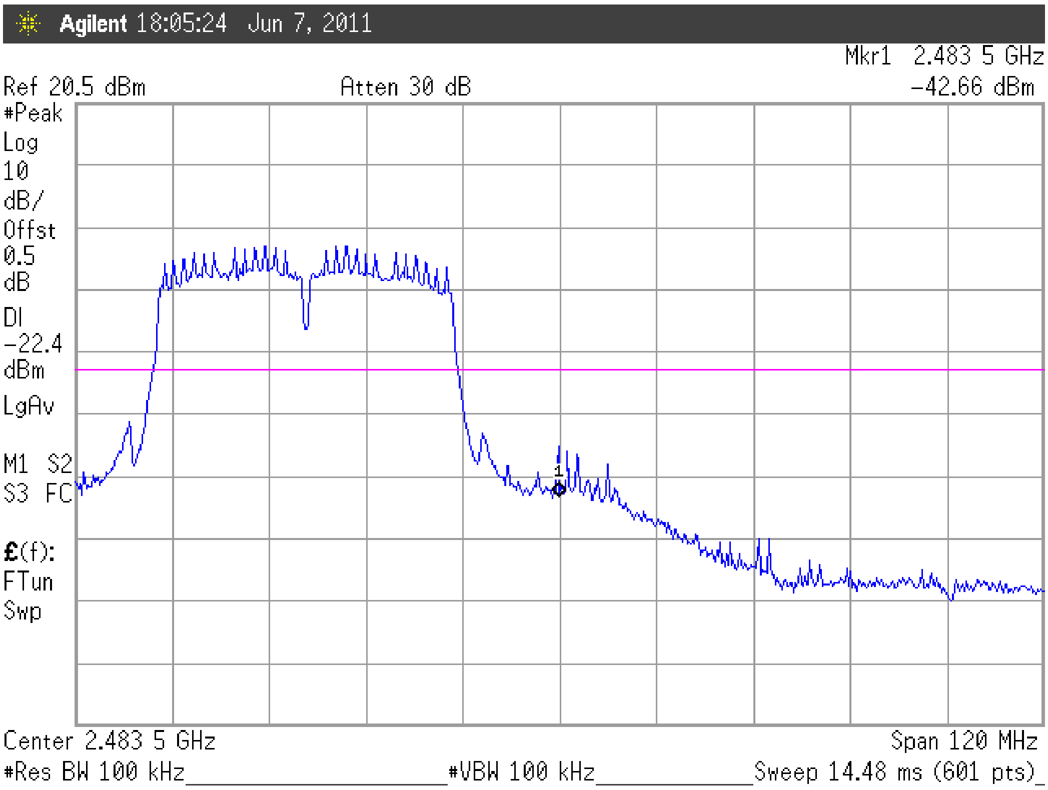


802.11n-HT40

Below Band edge



Upper Band edge



8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10’	Aug. 03, 11’

8.2. Block Diagram of Test Setup

The same as section.4.2.

8.3. Specification Limits (§15.247(d))

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

8.4. Operating Condition of EUT

The test program “Hyerterminal” was used to enable the EUT to transmit data at different channel frequency individually.

8.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/300kHz.
The measurement guideline was according to KDB 558074.

8.6. Test Results

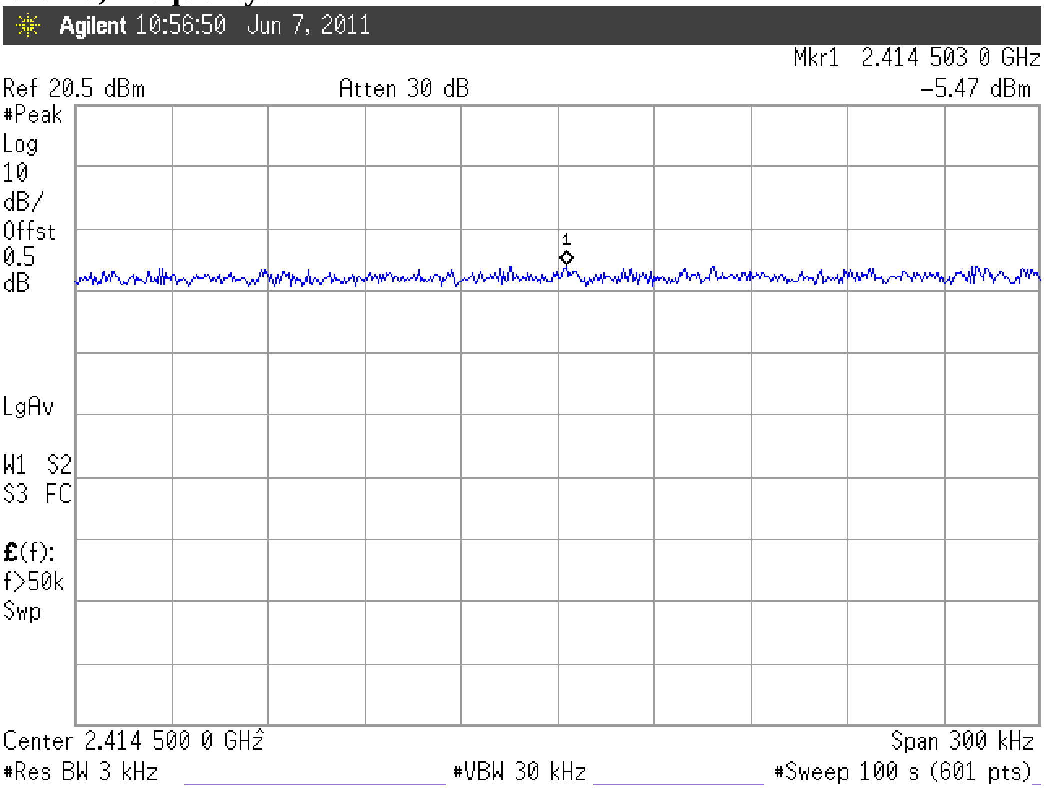
PASSED. All the test results are attached in next pages.

(Test Date: Jun. 07, 2011 Temperature : 26℃ Humidity : 51%)

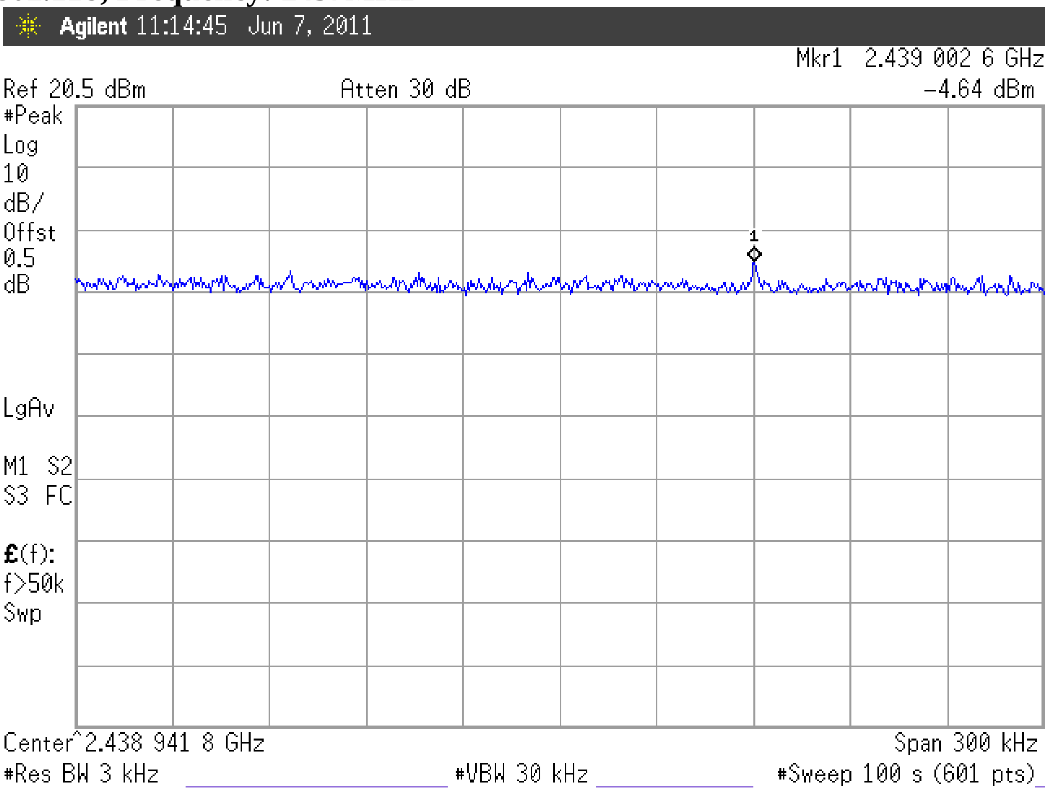
Mode	Type of Network	Channel	Frequency	**Power Spectral Density (dBm)**
1.	802.11b	CH 1	2412MHz	**-5.47dBm**
2.		CH 6	2437MHz	**-4.64dBm**
3.		CH 11	2462MHz	**-6.28dBm**
4.	802.11g	CH 1	2412MHz	**-10.52dBm**
5.		CH 6	2437MHz	**-10.51dBm**
6.		CH 11	2462MHz	**-10.87dBm**
7.	802.11n-HT20	CH 1	2412MHz	**-11.73dBm**
8.		CH 6	2437MHz	**-12.12dBm**
9.		CH 11	2462MHz	**-11.89dBm**
10.	802.11n-HT40	CH 3	2422MHz	**-17.41dBm**
11.		CH 6	2437MHz	**-16.61dBm**
12.		CH 9	2452MHz	**-17.56dBm**

[Limit: 8dBm]

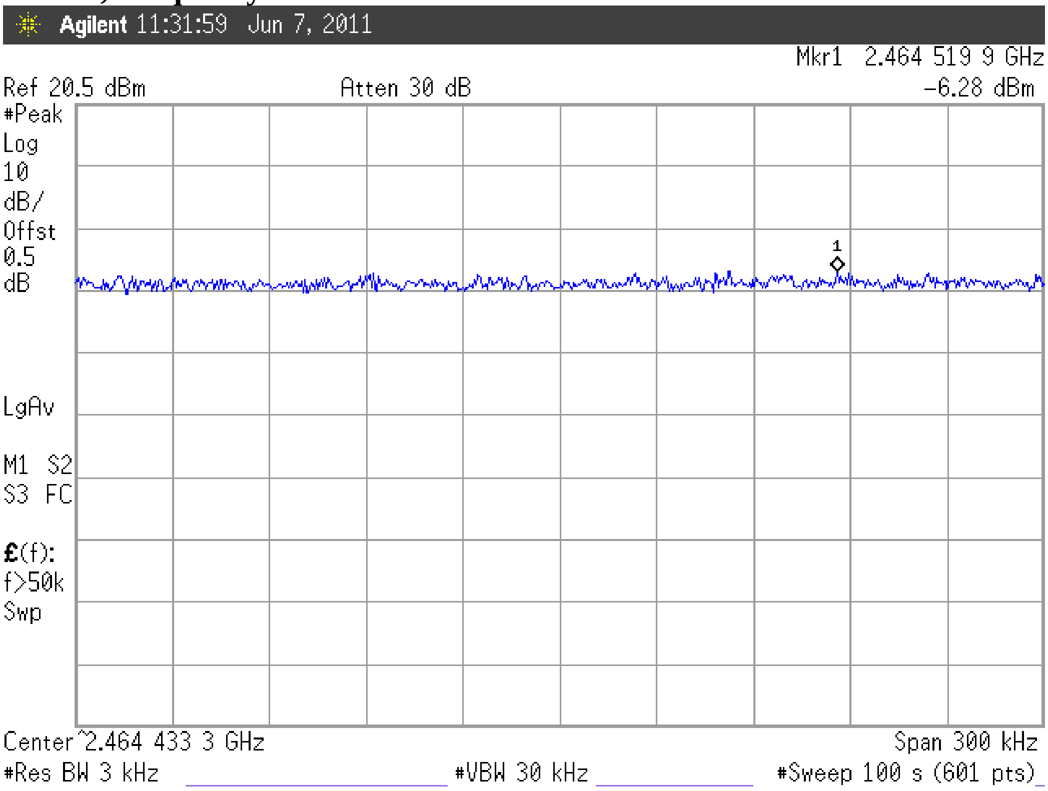
802.11b, Frequency: 2412MHz



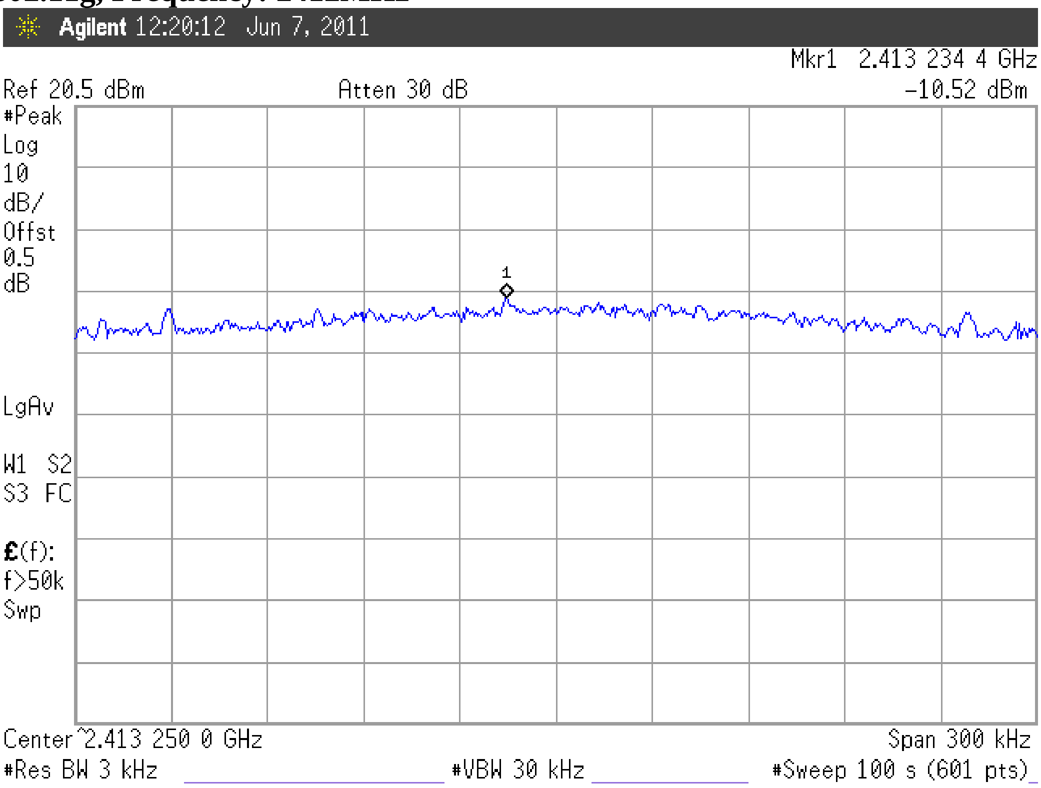
802.11b, Frequency: 2437MHz



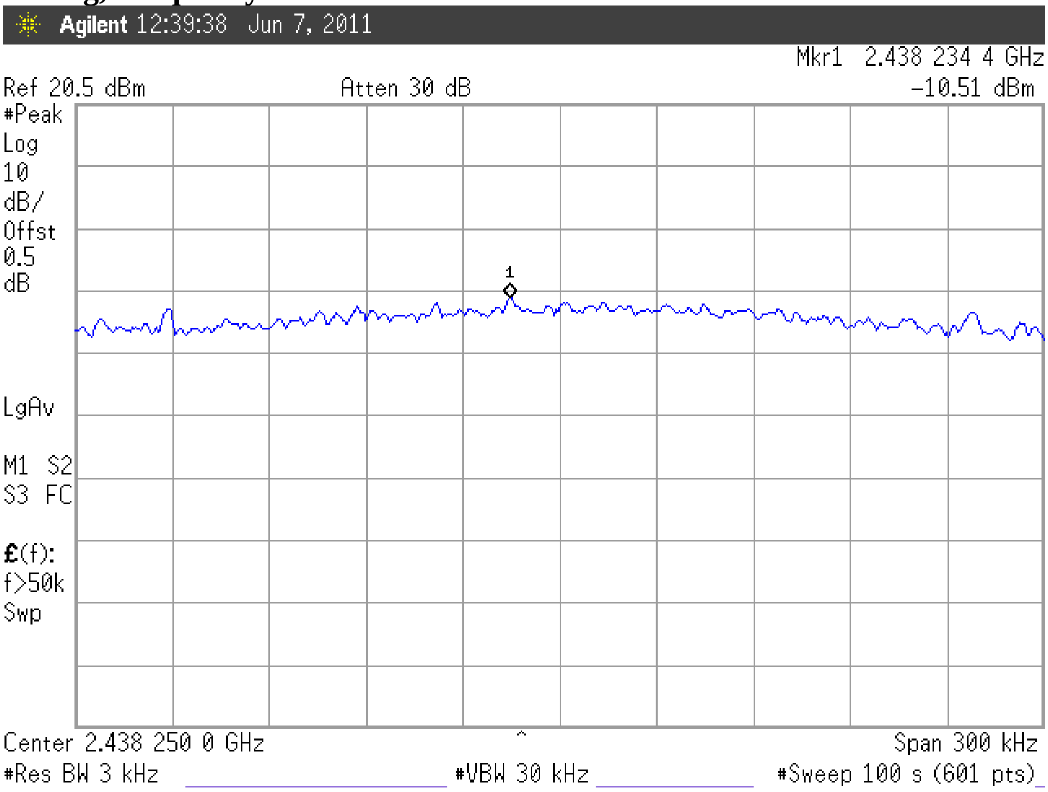
802.11b, Frequency: 2462MHz



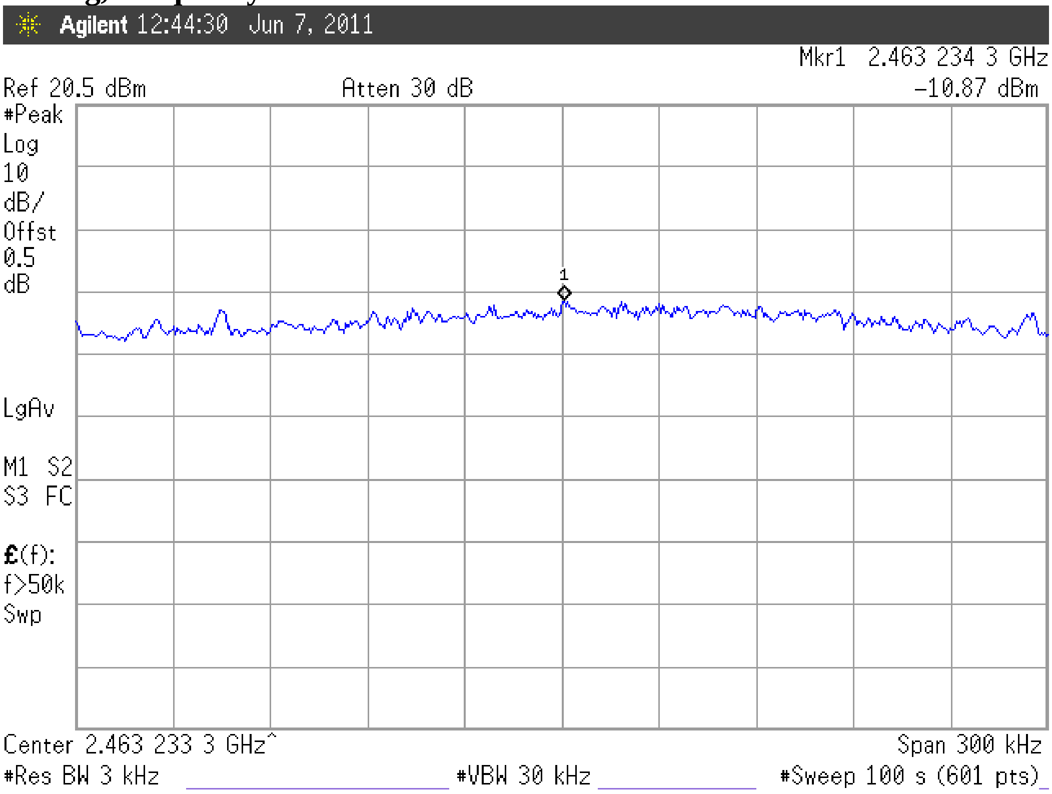
802.11g, Frequency: 2412MHz



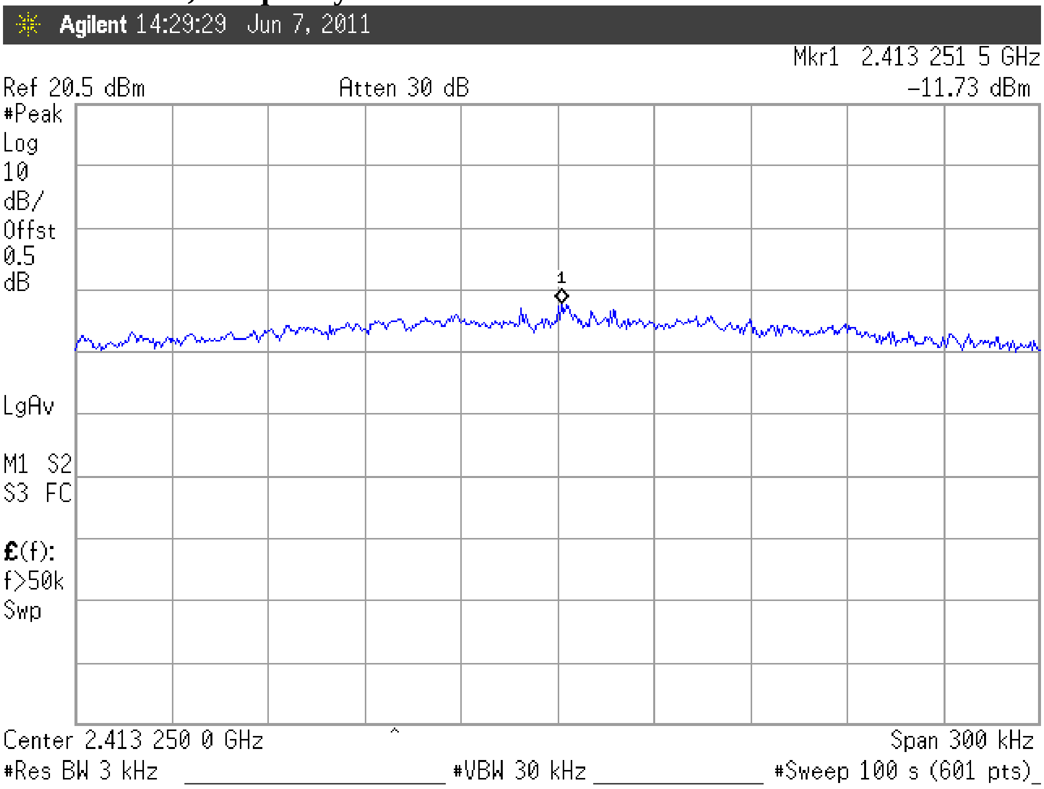
802.11g, Frequency: 2437MHz



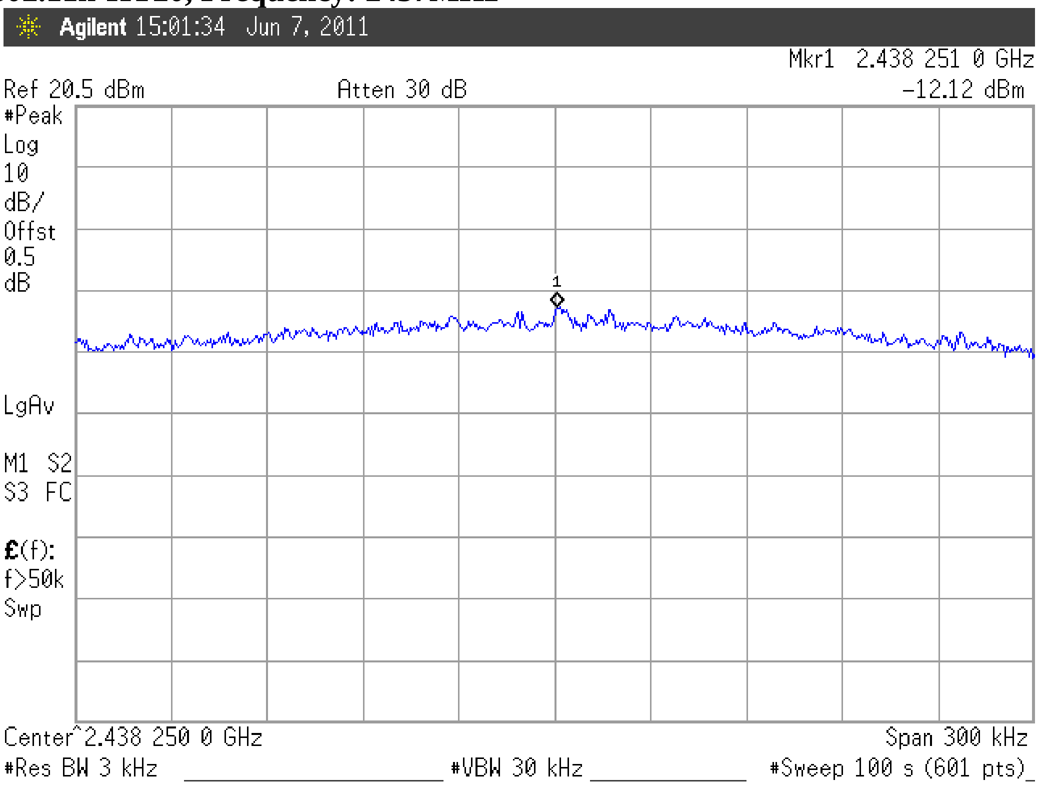
802.11g, Frequency: 2462MHz



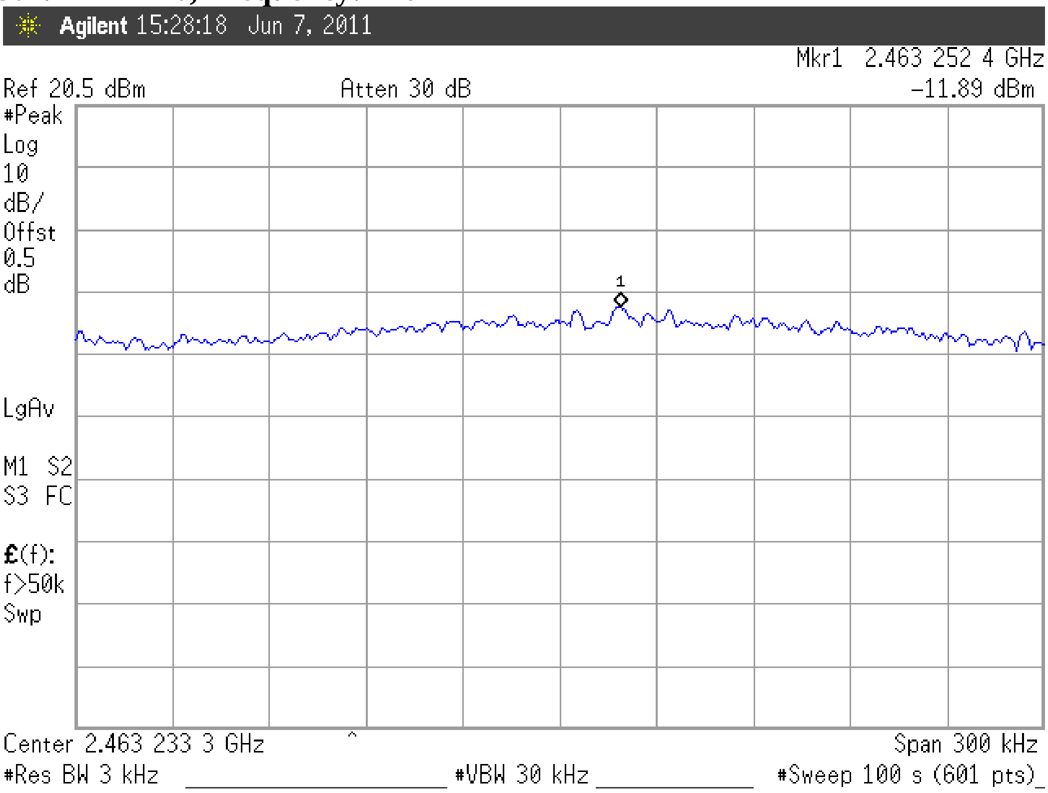
802.11n-HT20, Frequency: 2412MHz



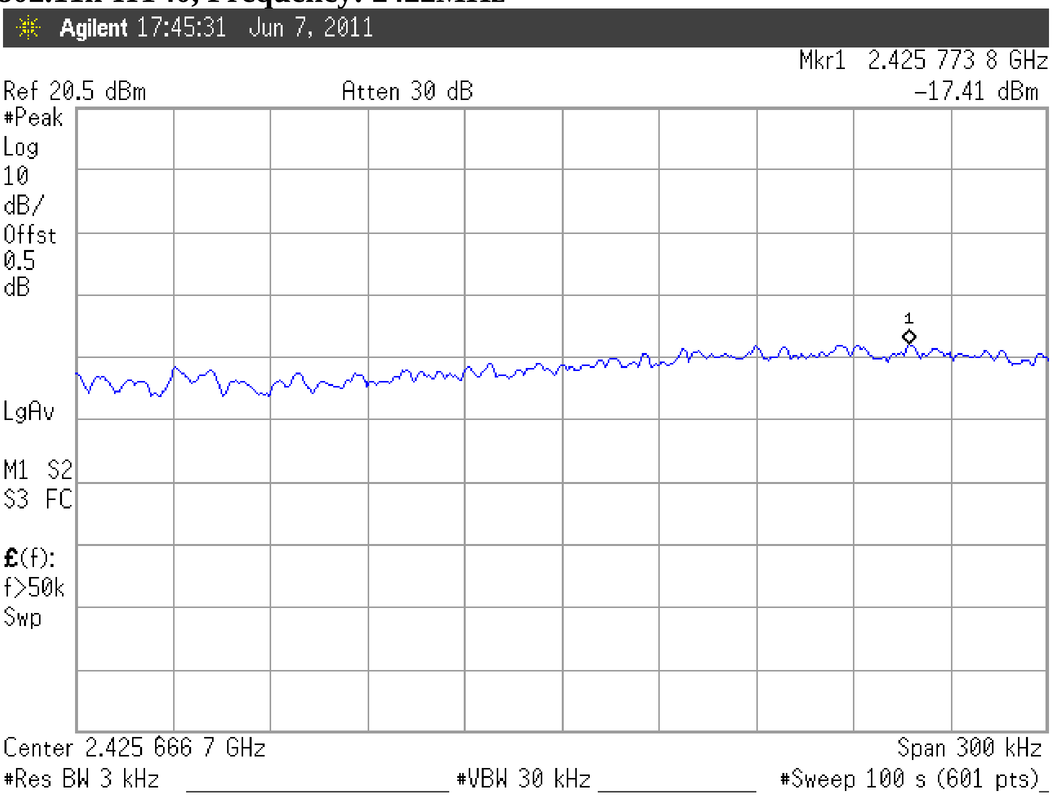
802.11n-HT20, Frequency: 2437MHz



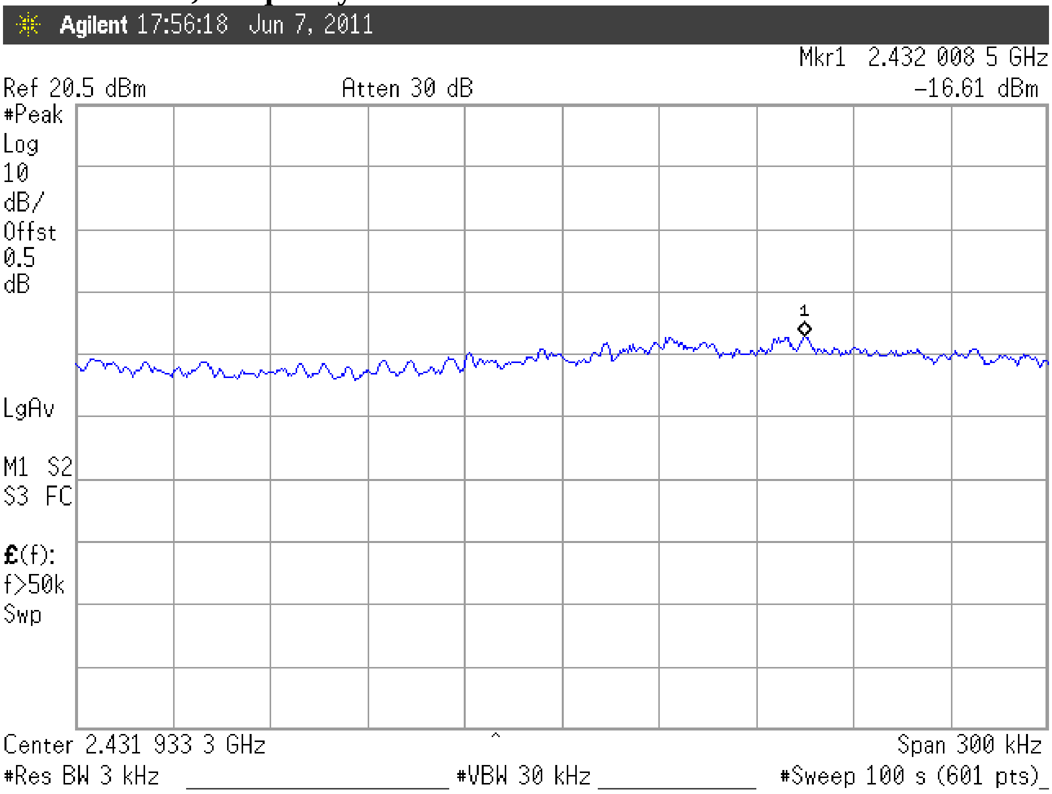
802.11n-HT20, Frequency: 2462MHz



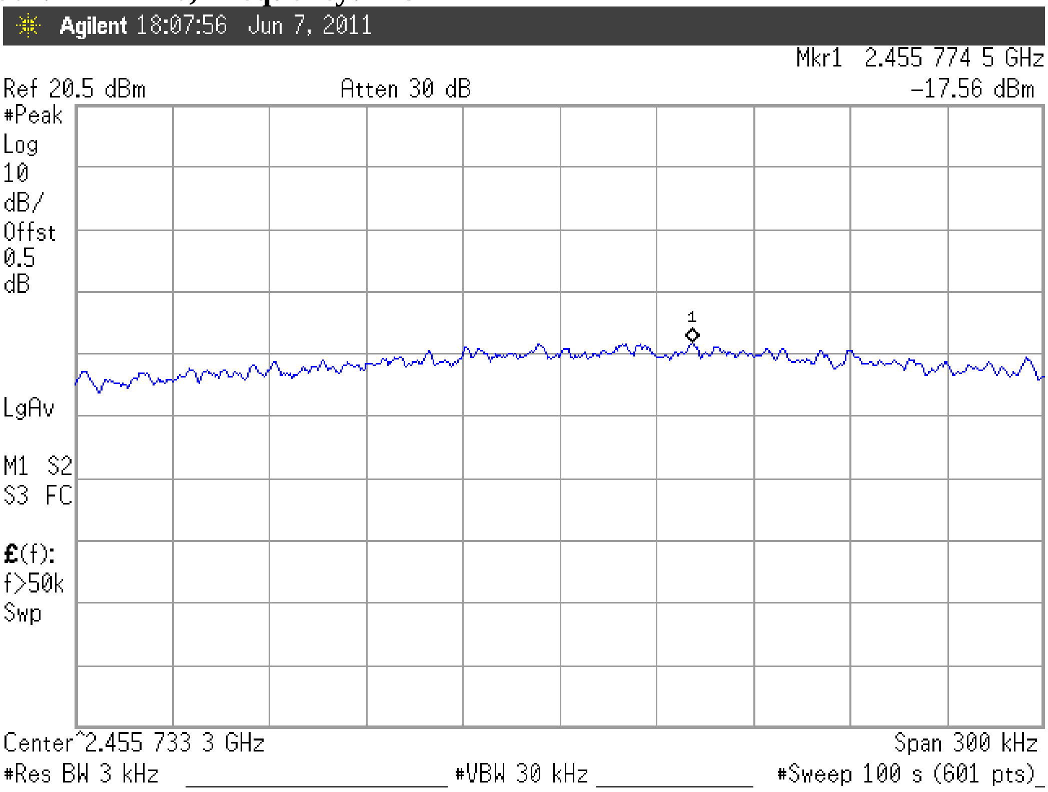
802.11n-HT40, Frequency: 2422MHz



802.11n-HT40, Frequency: 2437MHz



802.11n-HT40, Frequency: 2452MHz



9. DEVIATION TO TEST SPECIFICATIONS

【NONE】