

APPLICATION FOR CERTIFICATION

On Behalf of

LG Electronics Inc.

Wi-Fi module

Model No. : WN8122E

FCC ID : BEJWN8122E

Brand : LG

Prepared for : LG Electronics Inc.
19-1, Cheongho-ri, Jinwi-myeon,
Pyeongtaek-si, Gyeonggi-do, 451-713, Korea

Prepared by : AUDIX Technology Corporation
EMC Department
No. 53-11, Dingfu, Linkou Dist.,
New Taipei City 244, Taiwan, R.O.C.

Tel : (02) 2609-9301, 2609-2133
Fax: (02) 2609-9303

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TEST REPORT CERTIFICATION

Applicant : LG Electronics Inc.
 Manufacturer : Arcadyan Technology Corp.
 EUT Description : Wi-Fi module
 FCC ID : **BEJWN8122E**
 (A) Model No. : WN8122E
 (B) Serial No. : N/A
 (C) Brand : LG
 (D) Power Supply : DC 5V (Powered by Notebook PC)

Measurement Procedure Used:

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

(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: Sep. 20 ~ 26, 2011

Date of Report: Sep. 26, 2011

Producer: 
 (Tina Huang/Administrator)

Signatory: 
 (Ben Cheng/Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Wi-Fi module The frequency range of 2400MHz ~ 2483.5MHz、 5725MHz ~ 5850MHz was tested in this report. The frequency range 5150 ~ 5250MHz has been tested and the test data are reported in other report of EM-F1000826.
Model Number	:	WN8122E
Serial Number	:	N/A
Brand	:	LG
FCC ID	:	BEJWN8122E
Applicant	:	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea
Manufacturer	:	Arcadyan Technology Corp. 4F, No.9, Park Avenue II, Science-based Industrial Park, Hsinchu, 300 Taiwan
Fundamental Range	:	2412MHz ~ 2462MHz and 5180MHz ~ 5240MHz and 5745MHz ~ 5825MHz
Radio Technology	:	802.11b: DSSS Modulation (DBPSK/DQPSK/CCK) 802.11a/g/n-HT20/n-HT40: OFDM Modulation 2T2R, (BPSK/QPSK/16QAM/64QAM)
Data Transfer Rate	:	802.11b: 1/2/5.5/11Mbps 802.11a/g: 6/9/12/18/24/48/54Mbps 802.11n: up to 300Mbps
Antenna Gain	:	2.4GHz: -0.68dBi (Peak) 5.8GHz: 0.62dBi (Peak)
Date of Receipt of Sample	:	Sep. 09, 2011
Date of Test	:	Sep. 20 ~ 26, 2011

Antenna Information

Antenna Part Number	Manufacture	Antenna Type	Peak Gain W/ Cable loss (dBi)	
			Frequency (MHz)	Max Gain (dBi)
Ant./120800003400J	arcadyan	MIFA Antenna	2.4GHz	-0.91dBi (peak)
			2.45GHz	-0.79dBi (peak)
			2.5GHz	-0.68dBi (peak)
			5.15GHz	0.47dBi (peak)
			5.25GHz	0.54dBi (peak)
			5.35GHz	0.12dBi (peak)
			5.47GHz	-0.84dBi (peak)
			5.725GHz	0.00dBi (peak)
			5.85GHz	0.52dBi (peak)
Inner Ant./120800003500J	arcadyan	MIFA Antenna	2.4GHz	-1.46dBi (peak)
			2.45GHz	-1.54dBi (peak)
			2.5GHz	-1.29dBi (peak)
			5.15GHz	0.62dBi (peak)
			5.25GHz	0.57dBi (peak)
			5.35GHz	0.50dBi (peak)
			5.47GHz	-0.18dBi (peak)
			5.725GHz	-0.77dBi (peak)
			5.85GHz	-0.51dBi (peak)

1.2. Data Rate Relative to Output Power

802.11b			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	DBPSK	1	17.44
1	DQPSK	2	17.43
1	CCK	5.5	17.39
1	CCK	11	17.35

802.11g				802.11a			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)	Channel	Modulation	Date Rate (Mbps)	Power (dBm)
1	BPSK	6	17.47	149	BPSK	6	19.43
1	BPSK	9	17.45	149	BPSK	9	19.42
1	QPSK	12	17.45	149	QPSK	12	19.41
1	QPSK	18	17.41	149	QPSK	18	19.41
1	16-QAM	24	17.39	149	16-QAM	24	19.38
1	16-QAM	36	17.38	149	16-QAM	36	19.33
1	64-QAM	48	17.35	149	64-QAM	48	19.30
1	64-QAM	54	17.30	149	64-QAM	54	19.29

802.11n-HT20				802.11n-HT20			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)	Channel	Modulation	Date Rate (Mbps)	Power (dBm)
1	BPSK	6.5	18.15	149	BPSK	6.5	19.27
1	QPSK	13	18.14	149	QPSK	13	19.26
1	QPSK	19.5	18.11	149	QPSK	19.5	19.20
1	16-QAM	26	18.09	149	16-QAM	26	19.19
1	16-QAM	39	18.09	149	16-QAM	39	19.18
1	64-QAM	52	18.05	149	64-QAM	52	19.16
1	64-QAM	58.6	17.99	149	64-QAM	58.6	19.15
1	64-QAM	65	17.97	149	64-QAM	65	19.13

802.11g-HT40				802.11g-HT40			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)	Channel	Modulation	Date Rate (Mbps)	Power (dBm)
3	BPSK	13.5	14.03	151	BPSK	13.5	19.76
3	QPSK	27	14.00	151	QPSK	27	19.75
3	QPSK	40.5	13.98	151	QPSK	40.5	19.70
3	16-QAM	54	13.95	151	16-QAM	54	19.69
3	16-QAM	81	13.94	151	16-QAM	81	19.68
3	64-QAM	108	13.92	151	64-QAM	108	19.63
3	64-QAM	121.5	13.91	151	64-QAM	121.5	19.61
3	64-QAM	135	13.88	151	64-QAM	135	19.54

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 Bandwidth	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

1.4. Tested Supporting System Details

1.4.1. NOTEBOOK PC

Model Number	:	PP2130
Serial Number	:	5Y32KSQZ40ME
FCC ID	:	By DoC
BSMI ID	:	3912A556
Brand	:	Compaq
AC Adapter	:	COMPAQ, M/N: PA-1650-02C
		DC Cord: Non-Shielded, Undetachable, 1.8m
USB Cable	:	Non-Shielded, Detachable, 0.25m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.5. Description of Test Facility

Name of Firm	:	AUDIX Technology Corporation EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan, R.O.C.
Test Site (C5/Semi-AC)	:	No. 5 Shielded Room & No. 67-4, Dingfu, Linkou Dist., New Taipei City 244, Taiwan, R.O.C. Semi-Anechoic Chamber No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan, R.O.C. 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
Band edges	± 0.13dB
Power spectral density	± 0.13dB
Emission Limitations	± 0.13dB

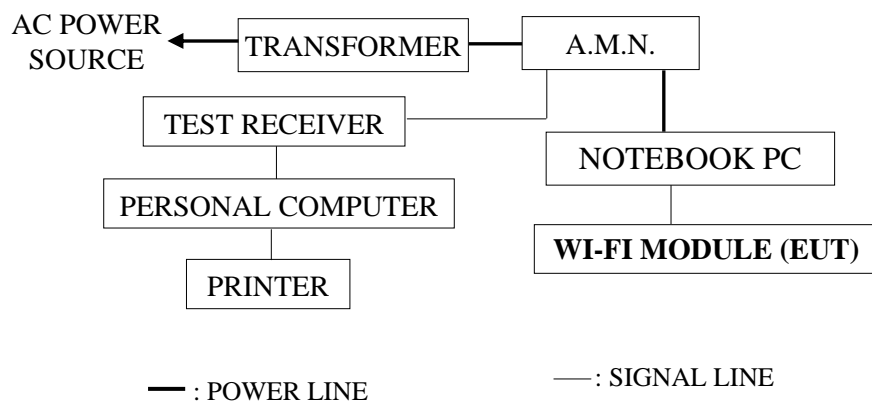
2. CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment was used during the conducted emission measurement :
(No. 5 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS 30	100039	Jun. 23, 11'	Jun. 22, 12'
3.	A.M.N.	R & S	ENV4200	100003	Jun. 09, 11'	Jun. 08, 12'

2.2. Block Diagram of Test Setup



2.3. Powerline Conducted Emission Limit (§15.207, Class B)

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

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. Setup the EUT and simulator as shown on 2.2.
- 2.4.2. Turn on the power of all equipment.
- 2.4.3. The Notebook PC was running test software “Broadcom WL Command” to set EUT (Wi-Fi module) on transmitting and receiving during all testing.

2.5. Test Procedure

The EUT (link Notebook PC) was placed on the table which was above the ground by 80cm and Notebook PC’s adapter’s power cord connected to the AC mains through an Artificial Mains Network (A.M.N.). This provided a 50 ohm coupling impedance for the measuring 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 simulators of the interface cables should be manipulated according to FCC ANSI C63.4-2003 regulation during conducted measurement.

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

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

All the final readings from Test Receiver were measured 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.)

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

EUT : Wi-Fi module M/N : WN8122E

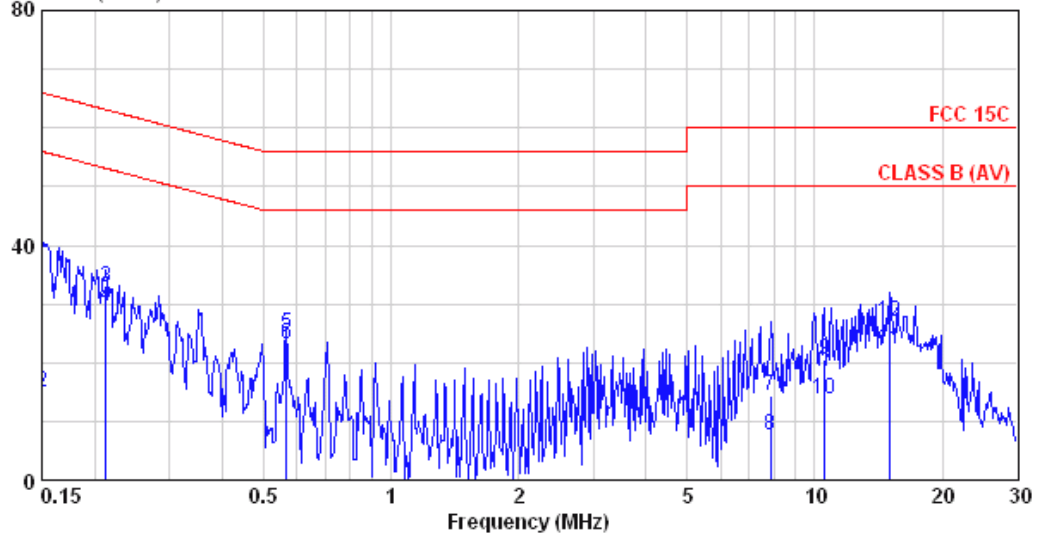
Test Date : Sep. 23, 2011 Temperature : 24 Humidity : 50%

Reference Test Data : Neutral # 2; Line # 1



AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu T sun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:emc@audixtech.com

Data: 2 File: C:\Documents and Settings\Administrator\桌面\C1M1109126-C.EMI (4) Date: 2011-09-23



Site : NO.5 Shielded Room Data : 2
 Condition : ENV 4200 Phase : NEUTRAL
 Limit : FCC 15C
 Env. / Ins. : 24*C/50% ESCS 30 (039) Engineer: Jasper Hong
 EUT M/N : WN8122E
 Power Rating : 120Vac / 60Hz
 Test Mode : operating

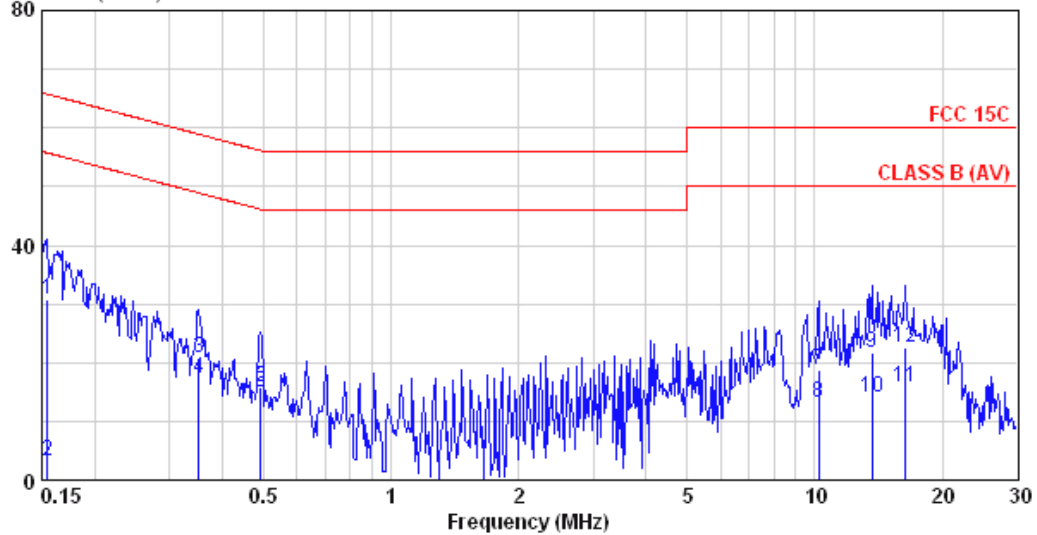
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	10.10	0.20	21.88	32.18	66.00	33.82	QP
2	0.150	10.10	0.20	4.51	14.81	56.00	41.19	AVERAGE
3	0.213	10.00	0.20	22.60	32.80	63.10	30.30	QP
4	0.213	10.00	0.20	19.34	29.54	53.10	23.56	AVERAGE
5	0.567	9.87	0.20	14.89	24.96	56.00	31.04	QP
6	0.567	9.87	0.20	13.02	23.09	46.00	22.91	AVERAGE
7	7.852	9.93	0.60	3.87	14.40	60.00	45.60	QP
8	7.852	9.93	0.60	-2.90	7.62	50.00	42.38	AVERAGE
9	10.564	10.00	0.70	9.89	20.59	60.00	39.41	QP
10	10.564	10.00	0.70	3.19	13.89	50.00	36.11	AVERAGE
11	15.053	10.00	0.70	11.55	22.25	50.00	27.75	AVERAGE
12	15.053	10.00	0.70	16.39	27.09	60.00	32.91	QP

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.



AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu T sun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:emc@audixtech.com

Data: 1 File: C:\Documents and Settings\Administrator\桌面\C1M1109126-C.EMI (4) Date: 2011-09-23



Site : NO.5 Shielded Room Data : 1
 Condition : ENV 4200 Phase : LINE
 Limit : FCC 15C
 Env. / Ins. : 24*C/50% ESCS 30 (039) Engineer: Jasper Hong
 EUT M/N : WN8122E
 Power Rating : 120Vac / 60Hz
 Test Mode : operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.155	10.10	0.20	20.54	30.84	65.74	34.90	QP
2	0.155	10.10	0.20	-7.22	3.09	55.74	52.65	AVERAGE
3	0.352	9.92	0.20	10.72	20.84	58.91	38.07	QP
4	0.352	9.92	0.20	7.11	17.23	48.91	31.68	AVERAGE
5	0.491	9.88	0.20	5.72	15.80	56.14	40.34	QP
6	0.491	9.88	0.20	4.72	14.80	46.14	31.34	AVERAGE
7	10.233	9.90	0.70	8.22	18.82	60.00	41.18	QP
8	10.233	9.90	0.70	2.59	13.19	50.00	36.81	AVERAGE
9	13.623	9.90	0.70	11.16	21.76	60.00	38.24	QP
10	13.623	9.90	0.70	3.33	13.93	50.00	36.07	AVERAGE
11	16.312	9.93	0.70	5.12	15.75	50.00	34.25	AVERAGE
12	16.312	9.93	0.70	11.87	22.50	60.00	37.50	QP

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)

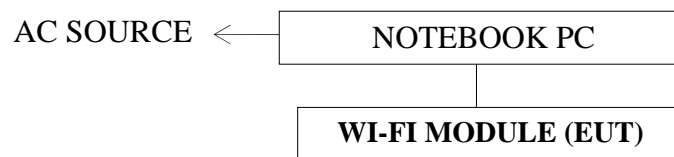
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 11'	Aug. 03, 12'
2.	Test Receiver	R & S	ESCS30	100338	Jul. 12, 11'	Jul. 11, 12'
3.	Amplifier	HP	8447D	2944A06305	Feb. 10, 11'	Feb. 09, 12'
4.	Log Periodic Antenna	Schwarzbeck	UHALP 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)

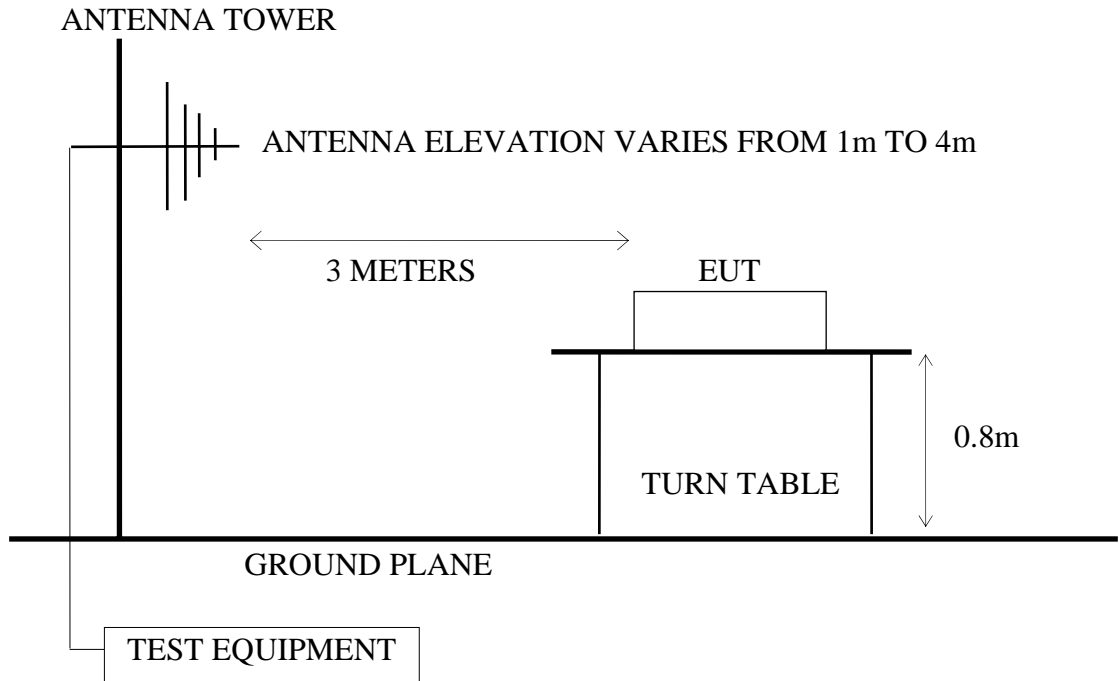
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 11'	Aug. 03, 12'
2.	Test Receiver	R & S	ESCS30	100338	Jul. 12, 11'	Jul. 11, 12'
3.	Amplifier	HP	8449B	3008A00529	Dec. 10, 10'	Dec. 09, 11'
4.	2.4GHz Notch Filter	EWT	EWT-14-0 070-R1	G2	Dec. 05, 10'	Dec. 04, 11'
5.	3.5G High Pass Filter	HP	84300-800 38	005	Jan. 05, 11'	Jan. 04, 12'
6.	Horn Antenna	EMCO	3115	9112-3775	May 09, 11'	May 08, 12'
7.	Horn Antenna	EMCO	3116	2653	Oct. 04, 10'	Oct. 03, 11'

3.2. Test Setup

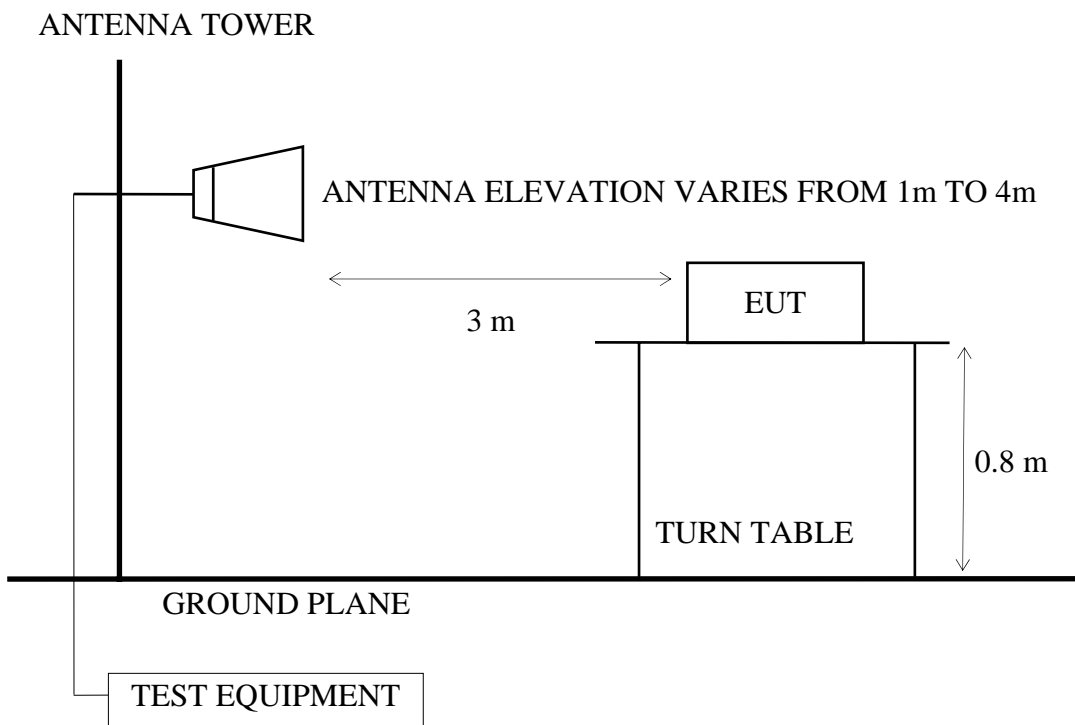
3.2.1. Block Diagram of connection between EUT and simulators



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	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
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 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (Average)	

- Remark :
- (1) Emission level ($\text{dB}\mu\text{V/m}$) = 20 log Emission level ($\mu\text{V/m}$)
 - (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 (Wi-Fi module) via Notebook PC and simulator as shown on 3.2.
- 3.4.2. To turn on the power of all equipments.
- 3.4.3. The EUT was set the Notebook PC using test program “Broadcom WL Command”.
- 3.4.4. The EUT supports 802.11b/g/n-HT20/n-HT40 modes, we performed pre-scan high, middle, low channels for each mode for spurious emission and listed the worst channel of each mode in test report.

The worst channel of each mode as following:

Mode	Type of Network	Channel
1.	802.11b	CH 6
2.	802.11g	CH 6
3.	802.11a	CH 149
4.	802.11n-HT20	CH 6
5.	802.11n-HT20	CH 157
6.	802.11n-HT40	CH 6
7.	802.11n-HT40	CH 151

3.5. Test Procedure

The EUT and its simulators were placed on a 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 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.

For emissions above 1GHz were measured with peak and average detectors, and performed measurement in 1 m distance for frequency range from 5500MHz up to 40000MHz where there is no emission be found.

Pursuant to ANSI C63.4 8.3.1.2, when peak value complies with the average limit, we didn't perform measurement in average detector.

3.6. Test Results

PASSED.

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

EUT : Wi-Fi module M/N : WN8122E

Test Date : Sep. 20, 2011 Temperature : 27 Humidity : 49%

The radiation tests on three different axes (stand, lie and side), we assessed the value and we selected the worst radiation position “stand” for our measured results.

For Frequency Range 30MHz~1000MHz:

The EUT select **worst position “stand”** and with following test modes were performed during this section testing and all the test results are listed in section 3.6.1.

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	802.11b	CH 6	2437MHz	Transmit	# 2	# 1
2.	802.11g	CH 6	2437MHz		# 2	# 1
3.	802.11a	CH 149	5745MHz		# 2	# 1
4.	802.11n-HT20	CH 6	2437MHz		# 2	# 1
5.		CH 157	5785MHz		# 2	# 1
6.	802.11n-HT40	CH 6	2437MHz		# 2	# 1
7.		CH 151	5755MHz		# 2	# 1

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

2.4GHz for Frequency above 1GHz:

The EUT select **worst position “stand”** and with following test modes was performed during this section testing and all the test results are listed in section 3.6.2.

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data			
					Horizontal		Vertical	
					Peak	Average	Peak	Average
1.	802.11b	CH 6	2437MHz	Transmit	# 4, 7	--(Note2)	# 3, 8	--(Note2)
2.	802.11g	CH 6	2437MHz		# 7, 4	--(Note2)	# 8, 3	--(Note2)
3.	802.11n-HT20	CH 6	2437MHz		# 4	--(Note2)	# 3	--(Note2)
4.	802.11n-HT40	CH 6	2437MHz		# 8	# 12	# 7	# 11

Note: 1. Above all final readings were measured with Peak and Average detector.

2. For measurements above 1GHz to 2.68GHz or 4GHz-5.5GHz, 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)

3. The emissions (up to 25GHz) not reported are too low to be measured.

5.8GHz for Frequency above 1GHz:

The emissions (up to 40GHz) not reported are too low to be measured.

For Restricted Bands:

The EUT was tested in restricted bands and all the test results are listed in section 3.6.4. (The restricted bands defined in part 15.205(a))

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	802.11b	CH 6	2412MHz	Transmit	# 2, # 3	# 1, # 4
2.		CH 11	2462MHz		# 6, # 7	# 5, # 8
3.	802.11g	CH 6	2412MHz	Transmit	# 2, # 3	# 1, # 4
4.		CH 11	2462MHz		# 6, # 7	# 5, # 8
5.	802.11n-HT20	CH 6	2412MHz	Transmit	# 1, # 4	# 2, # 3
6.		CH 11	2462MHz		# 5, # 8	# 6, # 7
7.	802.11n-HT40	CH 3	2422MHz	Transmit	# 1, # 4	# 5, # 3
8.		CH 9	2452MHz		# 5, # 8	# 6, # 7

3.6.1. For 30-1000MHz Frequency Range Measurement Results

802.11b, Transmit, Frequency: 2437MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	140.580	20.22	2.50	19.25	41.98	43.50	1.52	
2	241.460	23.16	3.40	5.29	31.85	46.00	14.15	
3	400.540	17.66	4.80	7.00	29.46	46.00	16.54	
4	667.290	22.80	6.40	12.79	41.99	46.00	4.01	
5	704.150	23.56	6.60	8.42	38.58	46.00	7.42	
6	800.180	24.14	6.90	5.66	36.70	46.00	9.30	

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 VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	133.790	19.89	2.40	10.92	33.21	43.50	10.29	
2	399.570	17.69	4.80	5.46	27.94	46.00	18.06	
3	501.420	18.95	6.52	8.20	33.68	46.00	12.32	
4	534.400	19.57	7.00	10.20	36.77	46.00	9.23	
5	665.350	22.65	6.40	14.59	43.64	46.00	2.36	
6	704.150	23.56	6.60	7.05	37.21	46.00	8.79	
7	800.180	24.14	6.90	6.02	37.05	46.00	8.95	
8	929.190	24.92	7.50	6.39	38.81	46.00	7.19	

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. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2437(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	142.520	20.26	2.50	16.85	39.62	43.50	3.88	
2	400.540	17.66	4.80	6.66	29.12	46.00	16.88	
3	600.360	21.31	6.30	6.21	33.82	46.00	12.18	
4	663.410	22.52	6.32	10.61	39.44	46.00	6.56	
5	704.150	23.56	6.60	9.89	40.05	46.00	5.95	
6	795.330	24.03	6.90	7.07	37.99	46.00	8.01	

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 VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2437(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	133.790	19.89	2.40	9.64	31.93	43.50	11.57	
2	399.570	17.69	4.80	9.73	32.21	46.00	13.79	
3	501.420	18.95	6.52	7.90	33.38	46.00	12.62	
4	534.400	19.57	7.00	10.20	36.77	46.00	9.23	
5	667.290	22.80	6.40	13.90	43.10	46.00	2.90	
6	704.150	23.56	6.60	6.59	36.75	46.00	9.25	

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

802.11a, Transmit, Frequency: 5745MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX5745(802.11a)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	137.670	20.01	2.43	17.90	40.34	43.50	3.16	
2	241.460	23.16	3.40	5.49	32.05	46.00	13.95	
3	400.540	17.66	4.80	7.61	30.07	46.00	15.93	
4	600.360	21.31	6.30	3.77	31.38	46.00	14.62	
5	663.410	22.52	6.32	11.24	40.07	46.00	5.93	
6	704.150	23.56	6.60	9.02	39.18	46.00	6.82	
7	798.240	24.09	6.90	6.98	37.97	46.00	8.03	

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 VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX5745(802.11a)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	133.790	19.89	2.40	8.88	31.17	43.50	12.33	
2	400.540	17.66	4.80	5.08	27.54	46.00	18.46	
3	501.420	18.95	6.52	7.37	32.85	46.00	13.15	
4	532.460	19.64	7.00	10.24	36.88	46.00	9.12	
5	567.380	20.97	6.50	5.40	32.88	46.00	13.12	
6	667.290	22.80	6.40	11.76	40.96	46.00	5.04	
7	704.150	23.56	6.60	6.59	36.75	46.00	9.25	

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. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	137.670	20.01	2.43	44.37	40.74	43.50	2.76	
2	241.460	23.16	3.40	30.58	31.39	46.00	14.61	
3	400.540	17.66	4.80	36.60	32.46	46.00	13.54	
4	667.290	22.80	6.40	41.22	43.08	46.00	2.92	
5	704.150	23.56	6.60	36.90	39.67	46.00	6.33	
6	800.180	24.14	6.90	36.59	40.32	46.00	5.68	
7	966.050	26.89	7.70	28.36	36.15	54.00	17.85	

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 VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	133.790	19.89	2.40	8.22	30.51	43.50	12.99	
2	400.540	17.66	4.80	4.87	27.33	46.00	18.67	
3	534.400	19.57	7.00	11.49	38.06	46.00	7.94	
4	663.410	22.52	6.32	12.57	41.40	46.00	4.60	
5	704.150	23.56	6.60	7.61	37.77	46.00	8.23	
6	798.240	24.09	6.90	5.55	36.54	46.00	9.46	

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: 5785MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX5785(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	135.730	19.95	2.40	18.00	40.34	43.50	3.16	
2	241.460	23.16	3.40	4.21	30.77	46.00	15.23	
3	397.630	17.64	4.80	7.80	30.24	46.00	15.76	
4	534.400	19.57	7.00	4.86	31.43	46.00	14.57	
5	666.320	22.78	6.40	7.45	36.63	46.00	9.37	
6	704.150	23.56	6.60	9.44	39.60	46.00	6.40	
7	800.180	24.14	6.90	6.04	37.07	46.00	8.93	
8	933.070	25.23	7.50	2.81	35.54	46.00	10.46	

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 VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX5785(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	137.670	20.01	2.43	7.99	30.43	43.50	13.07	
2	501.420	18.95	6.52	6.81	32.29	46.00	13.71	
3	534.400	19.57	7.00	8.89	35.46	46.00	10.54	
4	666.320	22.78	6.40	12.40	41.58	46.00	4.42	
5	704.150	23.56	6.60	7.49	37.65	46.00	8.35	
6	798.240	24.09	6.90	2.84	33.83	46.00	12.17	
7	935.010	25.42	7.50	1.93	34.86	46.00	11.14	

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. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	139.610	20.15	2.50	17.70	40.35	43.50	3.15	
2	400.540	17.66	4.80	6.82	29.28	46.00	16.72	
3	480.080	18.68	6.05	5.13	29.86	46.00	16.14	
4	665.350	22.65	6.40	13.08	42.13	46.00	3.87	
5	704.150	23.56	6.60	8.67	38.83	46.00	7.17	
6	715.790	22.74	6.55	4.35	33.65	46.00	12.35	
7	798.240	24.09	6.90	4.42	35.41	46.00	10.59	
8	935.010	25.42	7.50	2.61	35.54	46.00	10.46	
9	964.110	26.80	7.60	0.62	35.02	54.00	18.98	

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 VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	133.790	19.89	2.40	8.83	31.12	43.50	12.38	
2	399.570	17.69	4.80	3.15	25.63	46.00	20.37	
3	501.420	18.95	6.52	8.67	34.15	46.00	11.85	
4	532.460	19.64	7.00	9.12	35.76	46.00	10.24	
5	666.320	22.78	6.40	12.68	41.86	46.00	4.14	
6	704.150	23.56	6.60	7.19	37.35	46.00	8.65	
7	967.990	26.90	7.69	-0.25	34.34	54.00	19.66	

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: 5755MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX5755 (802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	144.460	20.31	2.60	17.66	40.57	43.50	2.93	
2	233.700	22.46	3.38	6.20	32.04	46.00	13.96	
3	397.630	17.64	4.80	7.55	29.98	46.00	16.02	
4	667.290	22.80	6.40	9.95	39.15	46.00	6.85	
5	704.150	23.56	6.60	7.84	38.00	46.00	8.00	
6	800.180	24.14	6.90	5.83	36.86	46.00	9.14	
7	964.110	26.80	7.60	0.37	34.77	54.00	19.23	

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 VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX5755 (802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark
1	133.790	19.89	2.40	11.63	33.92	43.50	9.58	
2	400.540	17.66	4.80	4.78	27.24	46.00	18.76	
3	532.460	19.64	7.00	9.19	35.83	46.00	10.17	
4	567.380	20.97	6.50	4.33	31.81	46.00	14.19	
5	667.290	22.80	6.40	13.90	43.10	46.00	2.90	
6	704.150	23.56	6.60	6.38	36.54	46.00	9.46	
7	798.240	24.09	6.90	2.57	33.56	46.00	12.44	

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. 2.4GHz for Above 1GHz Frequency Range Measurement Results

802.11b 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/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	2540.560	28.39	6.53	12.10	47.02	54.00	6.98	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 Data no. : 3
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	2532.160	28.33	6.52	14.60	49.44	54.00	4.56	Peak

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

Site no. : A/C Chamber Data no. : 7
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	4876.000	33.06	9.15	10.98	53.18	74.00	20.82	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. : 8
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	4876.000	33.06	9.15	13.44	55.64	74.00	18.36	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. : 7
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	2548.960	28.39	6.54	13.21	48.15	54.00	5.85	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 Data no. : 8
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	2527.120	28.33	6.50	15.28	50.10	54.00	3.90	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. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	4876.000	33.06	9.15	6.94	49.14	54.00	4.86	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 Data no. : 3
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	4876.000	33.06	9.15	11.77	53.97	54.00	0.03	Peak

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

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/49%      Jarwei Wang
EUT          : WN8122E
Power Rating : DC 5V via Notebook
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	2527.120	28.33	6.50	11.88	46.70	54.00	7.30 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/49%      Jarwei Wang
EUT          : WN8122E
Power Rating : DC 5V via Notebook
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	2540.560	28.39	6.53	15.05	49.97	54.00	4.03 Peak

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

802.11n-HT40, Transmit, Frequency: 2437MHz

```

Site no.       : A/C Chamber
Dis. / Ant.   : 3m 3115(3775)
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 27°C/49%
EUT          : WN8122E
Power Rating  : DC 5V via Notebook
Test Mode     : TX2437(802.11n-HT40)

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

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2510.320	28.26	6.48	19.61	54.35	74.00	19.65	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-PK)
Env. / Ins.   : E4446A 27°C/49%
EUT          : WN8122E
Power Rating  : DC 5V via Notebook
Test Mode     : TX2437(802.11n-HT40)

Data no.      : 7
Ant. pol.     : VERTICAL
Jarwei Wang
    
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2523.760	28.33	6.50	20.00	54.82	74.00	19.18	

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. : 12
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	2510.320	28.26	6.48	8.50	43.25	54.00	10.75	Average

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. : 11
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 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	2523.760	28.33	6.50	10.75	45.58	54.00	8.42	Average

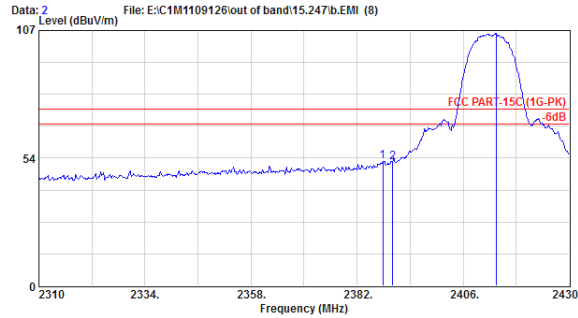
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

3.6.3. Restricted Bands Measurement Results

Date of Test : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11b, Transmit, Channel: 01, Frequency: 2412MHz



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



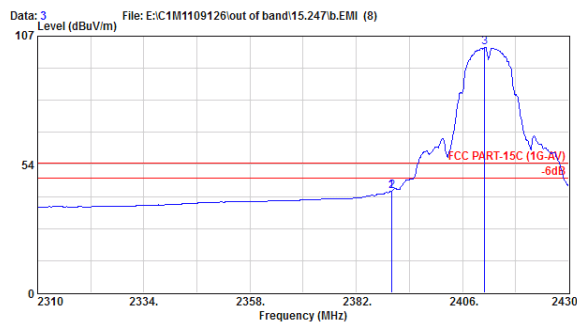
Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V
 Test Mode : TX2412 (802.11b)

	Ant. Freq. (MHz)	Cable Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2387.880	28.10	6.34	17.86	52.30	74.00	21.70	Peak
2	2390.040	28.10	6.34	17.25	51.69	74.00	22.31	Peak
3	2413.440	28.11	6.36	71.36	105.84	74.00	-31.84	Peak

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



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



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/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V
 Test Mode : TX2412 (802.11b)

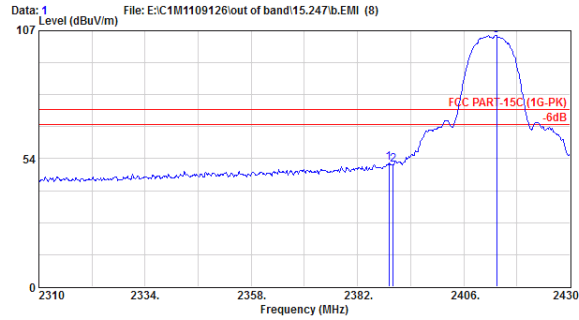
	Ant. Freq. (MHz)	Cable Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	7.91	42.35	54.00	11.65	Average
2	2390.040	28.10	6.34	7.95	42.39	54.00	11.61	Average
3	2411.040	28.11	6.36	67.68	102.16	54.00	-48.16	Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11b, Transmit, Channel: 01, Frequency: 2412MHz



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



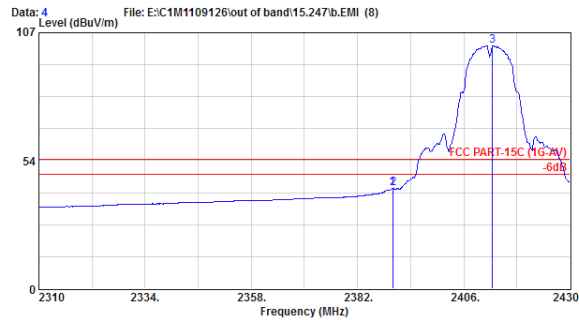
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 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V
 Test Mode : TX2412 (802.11b)

	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.080	28.10	6.34	17.21	51.64	74.00	22.36 Peak
2	2390.040	28.10	6.34	16.44	50.88	74.00	23.12 Peak
3	2413.440	28.11	6.36	70.72	105.20	74.00	-31.20 Peak

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



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



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/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V
 Test Mode : TX2412 (802.11b)

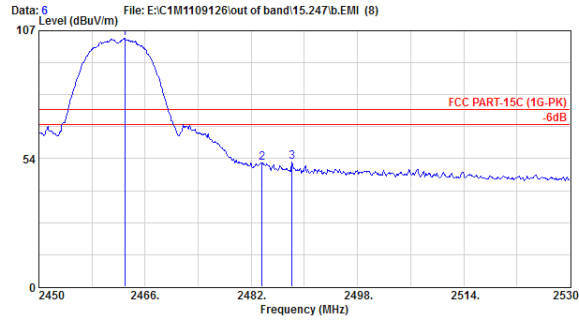
	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	7.40	41.83	54.00	12.17 Average
2	2390.040	28.10	6.34	7.45	41.89	54.00	12.11 Average
3	2412.480	28.11	6.36	67.03	101.51	54.00	-47.51 Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11b, Transmit, Channel: 11, Frequency: 2462MHz



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



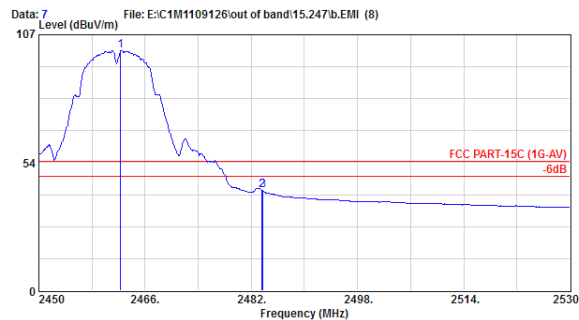
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 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V
 Test Mode : TX2462 (802.11b)

	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	28.17	6.42	69.29	103.88	74.00	-29.88	Peak
2	28.18	6.45	17.09	51.72	74.00	22.28	Peak
3	28.20	6.45	17.50	52.15	74.00	21.85	Peak

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



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



Site no. : A/C Chamber Data no. : 7
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V
 Test Mode : TX2462 (802.11b)

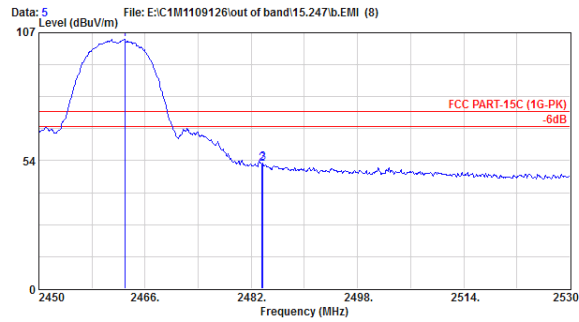
	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	28.17	6.42	65.77	100.36	54.00	-46.36	Average
2	28.18	6.45	7.18	41.82	54.00	12.18	Average
3	28.18	6.45	7.26	41.89	54.00	12.11	Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11b, Transmit, Channel: 11, Frequency: 2462MHz



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



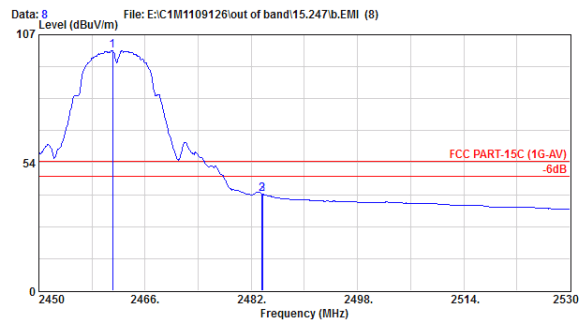
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 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V
 Test Mode : TX2462 (802.11b)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2462.960	28.17	6.42	69.63	104.22	74.00	-30.22	Peak
2 2483.600	28.18	6.45	17.57	52.21	74.00	21.79	Peak
3 2483.760	28.18	6.45	17.88	52.51	74.00	21.49	Peak

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



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



Site no. : A/C Chamber Data no. : 8
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V
 Test Mode : TX2462 (802.11b)

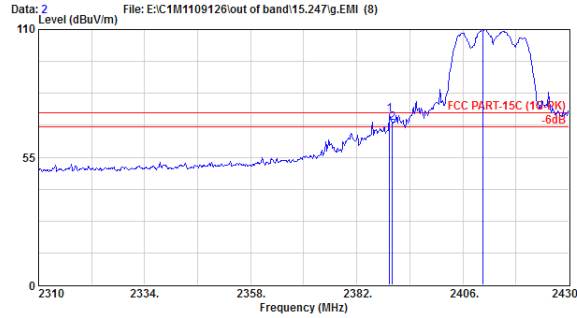
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2461.120	28.17	6.42	65.88	100.47	54.00	-46.47	Average
2 2483.600	28.18	6.45	5.80	40.44	54.00	13.56	Average
3 2483.680	28.18	6.45	5.79	40.43	54.00	13.57	Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11g, Transmit, Channel: 01, Frequency: 2412MHz



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



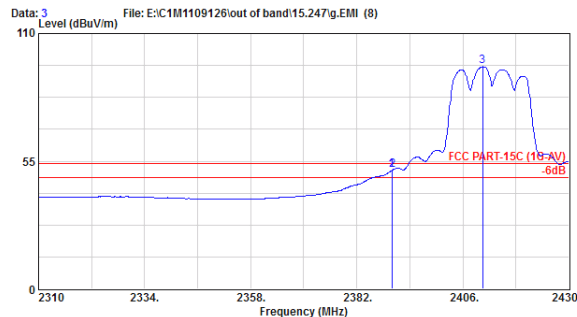
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 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2412(802.11g)

Freq. (MHz)	Ant. Cable		Reading (dBμV)	Emission		
	Factor (dB/m)	Loss (dB)		Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)
1 2389.440	28.10	6.34	38.94	73.38	74.00	0.62 Peak
2 2390.040	28.10	6.34	35.07	69.51	74.00	4.49 Peak
3 2410.440	28.11	6.36	75.99	110.46	74.00	-36.46 Peak

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



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



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/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2412(802.11g)

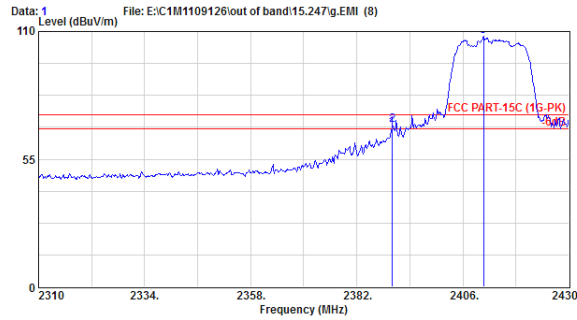
Freq. (MHz)	Ant. Cable		Reading (dBμV)	Emission		
	Factor (dB/m)	Loss (dB)		Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)
1 2389.920	28.10	6.34	16.61	51.05	54.00	2.95 Average
2 2390.040	28.10	6.34	16.76	51.20	54.00	2.80 Average
3 2410.440	28.11	6.36	61.26	95.73	54.00	-41.73 Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11g, Transmit, Channel: 01, Frequency: 2412MHz



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



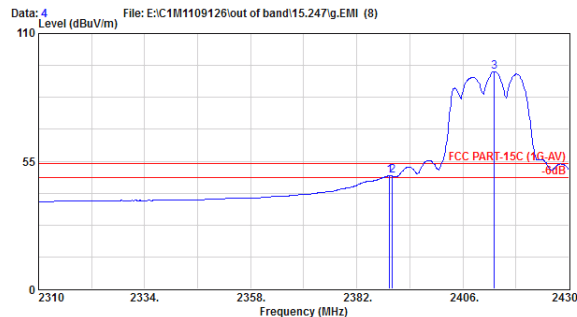
Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2412(802.11g)

	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2389.920	28.10	6.34	33.89	68.33	74.00	5.67	Peak
2 2390.040	28.10	6.34	35.33	69.77	74.00	4.23	Peak
3 2410.680	28.11	6.36	73.47	107.95	74.00	-33.95	Peak

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



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



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/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2412(802.11g)

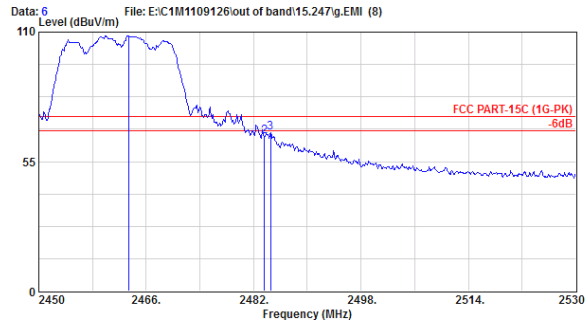
	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2389.440	28.10	6.34	14.24	48.68	54.00	5.32	Average
2 2390.040	28.10	6.34	14.12	48.56	54.00	5.44	Average
3 2413.080	28.11	6.36	59.18	93.66	54.00	-39.66	Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11g, Transmit, Channel: 11, Frequency: 2462MHz



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



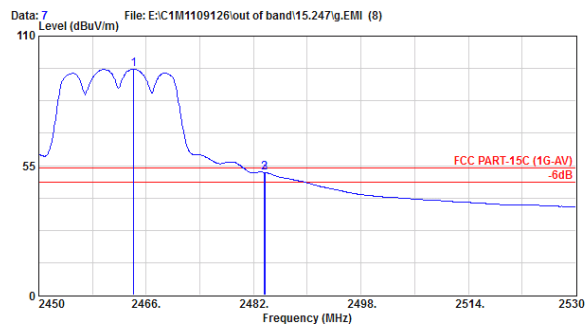
Site no. : A/C Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2462(802.11g)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2463.360	28.17	6.42	73.97	108.56	74.00	-34.56	Peak
2 2483.600	28.18	6.45	30.96	65.60	74.00	8.40	Peak
3 2484.560	28.18	6.45	32.61	67.24	74.00	6.76	Peak

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



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



Site no. : A/C Chamber Data no. : 7
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2462(802.11g)

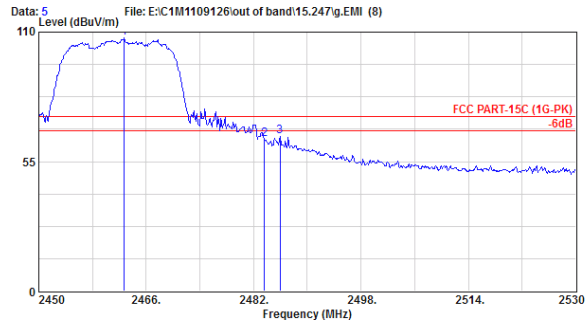
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2464.160	28.17	6.42	61.39	95.98	54.00	-41.98	Average
2 2483.600	28.18	6.45	17.49	52.13	54.00	1.87	Average
3 2483.680	28.18	6.45	17.47	52.11	54.00	1.89	Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11g, Transmit, Channel: 11, Frequency: 2462MHz



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 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



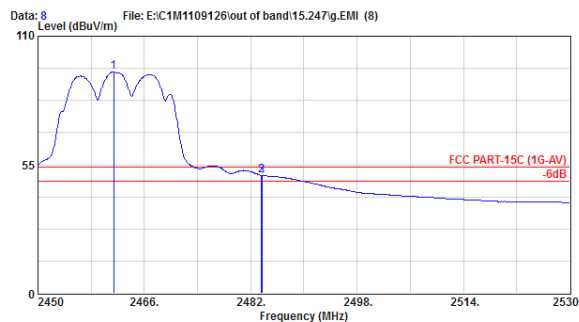
Site no. : A/C Chamber Data no. : 5
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2462 (802.11g)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2462.720	28.17	6.42	72.87	107.46	74.00	-33.46	Peak
2 2483.600	28.18	6.45	29.64	64.27	74.00	9.73	Peak
3 2485.920	28.18	6.45	31.02	65.66	74.00	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.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 8
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2462 (802.11g)

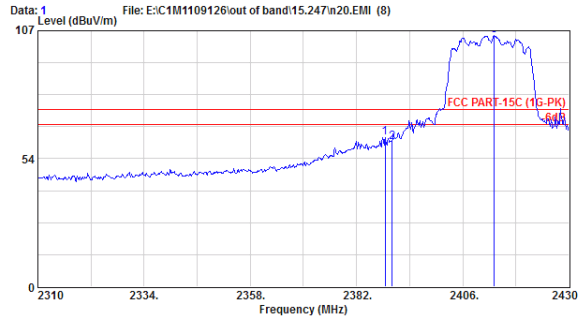
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2461.360	28.17	6.42	60.22	94.81	54.00	-40.81	Average
2 2483.600	28.18	6.45	15.80	50.44	54.00	3.56	Average
3 2483.680	28.18	6.45	15.77	50.41	54.00	3.59	Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11n-HT20, Transmit, Channel: 01, Frequency: 2412MHz



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 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



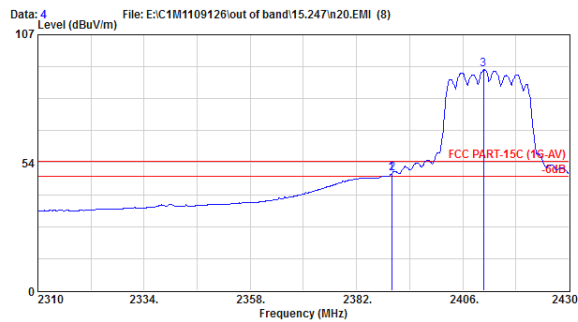
Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2412 (802.11n-HT20)

	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.480	28.10	6.34	27.85	62.28	74.00	11.72 Peak
2	2390.040	28.10	6.34	25.78	60.22	74.00	13.78 Peak
3	2413.080	28.11	6.36	70.46	104.94	74.00	-30.94 Peak

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



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



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/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2412 (802.11n-HT20)

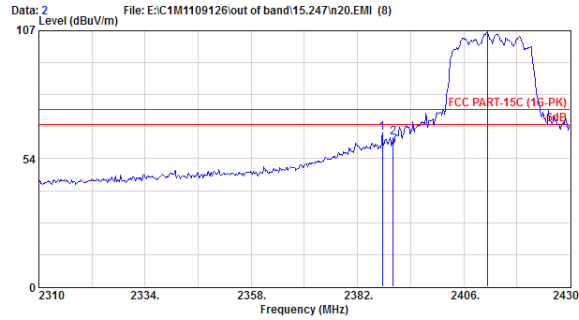
	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	14.47	48.91	54.00	5.09 Average
2	2390.040	28.10	6.34	14.68	49.12	54.00	4.88 Average
3	2410.680	28.11	6.36	57.86	92.34	54.00	-38.34 Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11n-HT20, Transmit, Channel: 01, Frequency: 2412MHz



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



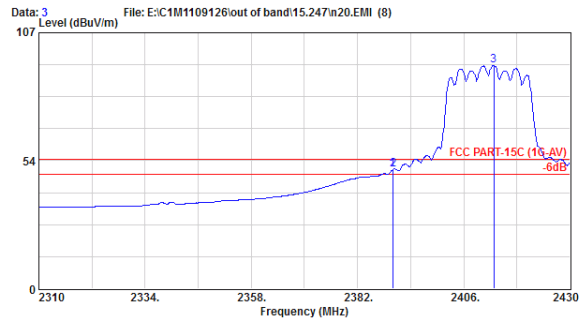
Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2412 (802.11n-HT20)

	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	28.10	6.34	29.65	64.09	74.00	9.91	Peak
2	28.10	6.34	27.73	62.17	74.00	11.83	Peak
3	28.11	6.36	72.05	106.53	74.00	-32.53	Peak

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



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



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/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2412 (802.11n-HT20)

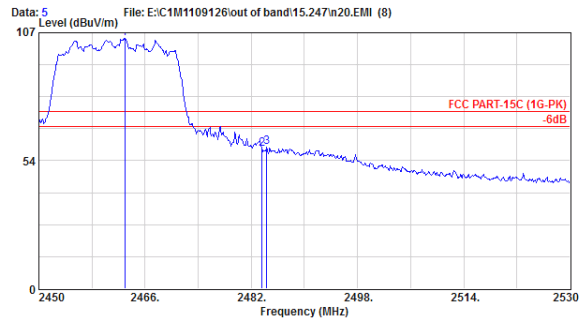
	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	28.10	6.34	15.31	49.75	54.00	4.25	Average
2	28.10	6.34	15.50	49.94	54.00	4.06	Average
3	28.11	6.36	58.94	93.42	54.00	-39.42	Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11n-HT20, Transmit, Channel: 11, Frequency: 2462MHz



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



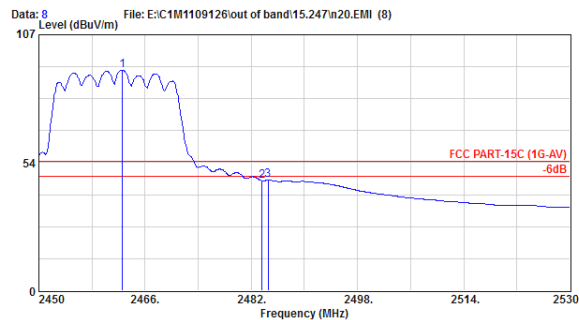
Site no. : A/C Chamber Data no. : 5
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2462 (802.11n-HT20)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2462.960	28.17	6.42	70.02	104.61	74.00	-30.61	Peak
2483.600	28.18	6.45	23.77	58.41	74.00	15.59	Peak
2484.320	28.18	6.45	24.63	59.26	74.00	14.74	Peak

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



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



Site no. : A/C Chamber Data no. : 8
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2462 (802.11n-HT20)

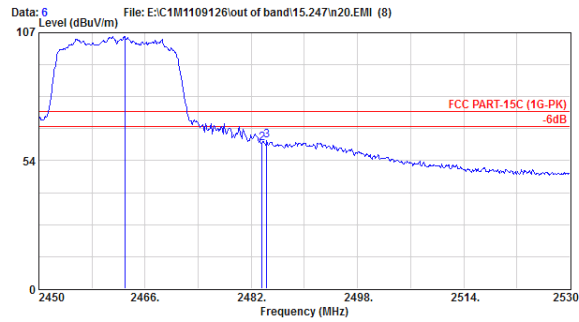
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2462.560	28.17	6.42	57.66	92.25	54.00	-38.25	Average
2483.600	28.18	6.45	11.30	45.93	54.00	8.07	Average
2484.560	28.18	6.45	11.61	46.24	54.00	7.76	Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11n-HT20, Transmit, Channel: 11, Frequency: 2462MHz



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



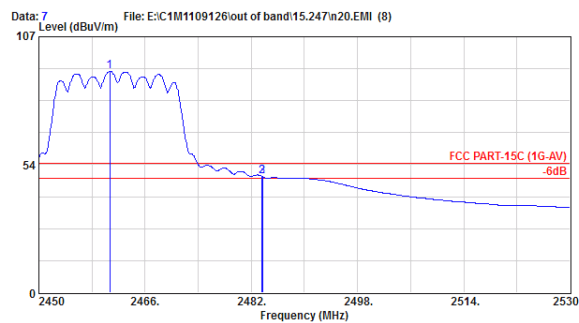
Site no. : A/C Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2462(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2462.960	28.17	6.42	70.91	105.50	74.00	-31.50	Peak
2	2483.600	28.18	6.45	26.16	60.80	74.00	13.20	Peak
3	2484.320	28.18	6.45	27.18	61.81	74.00	12.19	Peak

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



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



Site no. : A/C Chamber Data no. : 7
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2462(802.11n-HT20)

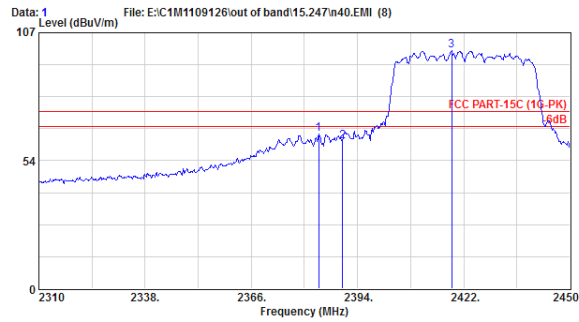
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	2460.720	28.17	6.42	57.83	92.41	54.00	-38.41	Average
2	2483.600	28.18	6.45	13.96	48.60	54.00	5.40	Average
3	2483.680	28.18	6.45	13.88	48.52	54.00	5.48	Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11n-HT40, Transmit, Channel: 03, Frequency: 2422MHz



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 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



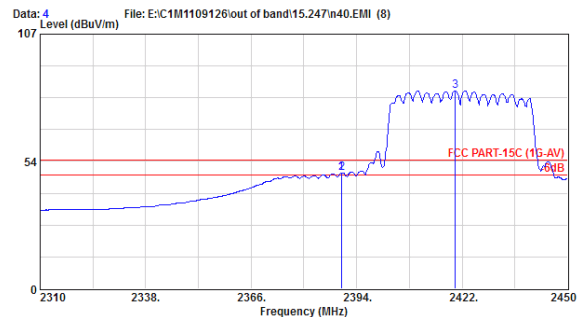
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 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2422 (802.11n-HT40)

	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	28.08	6.33	30.23	64.64	74.00	9.36	Peak
2	28.10	6.34	27.29	61.73	74.00	12.27	Peak
3	28.11	6.37	65.06	99.54	74.00	-25.54	Peak

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



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



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/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2422 (802.11n-HT40)

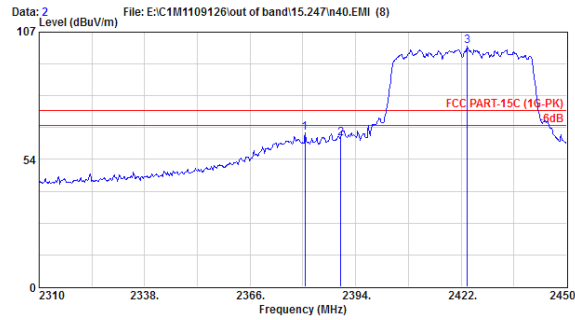
	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	28.10	6.34	14.25	48.68	54.00	5.32	Average
2	28.10	6.34	14.31	48.75	54.00	5.25	Average
3	28.13	6.37	48.76	83.27	54.00	-29.27	Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11n-HT40, Transmit, Channel: 03, Frequency: 2422MHz



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



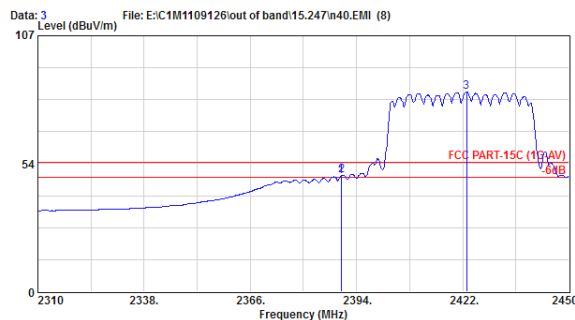
Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2422 (802.11n-HT40)

	Ant. Freq. (MHz)	Cable Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2380.560	28.08	6.33	30.37	64.78	74.00	9.22	Peak
2	2390.080	28.10	6.34	27.73	62.17	74.00	11.83	Peak
3	2423.680	28.13	6.38	66.69	101.20	74.00	-27.20	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 Data no. : 3
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2422 (802.11n-HT40)

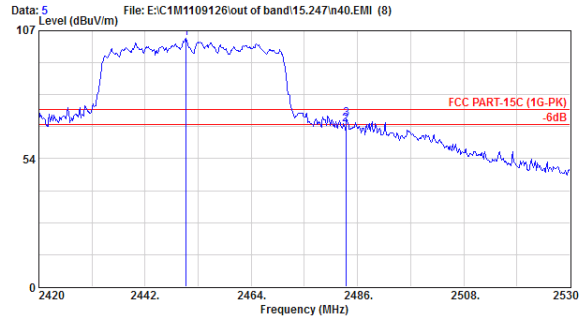
	Ant. Freq. (MHz)	Cable Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.940	28.10	6.34	13.82	48.26	54.00	5.74	Average
2	2390.080	28.10	6.34	14.05	48.49	54.00	5.51	Average
3	2422.980	28.13	6.37	48.92	83.42	54.00	-29.42	Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11n-HT40, Transmit, Channel: 09, Frequency: 2452MHz



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 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



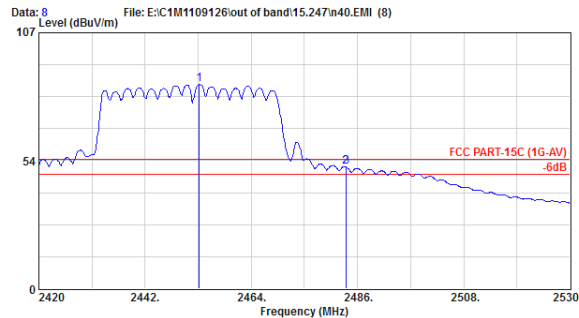
Site no. : A/C Chamber Data no. : 5
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2452 (802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2450.470	28.15	6.41	69.14	103.70	74.00	-29.70	Peak
2	2483.580	28.18	6.45	33.17	67.80	74.00	6.20	Peak
3	2483.690	28.18	6.45	35.52	70.15	74.00	3.85	Peak

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



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 Email:ttenc@ttenc.com.tw



Site no. : A/C Chamber Data no. : 8
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2452 (802.11n-HT40)

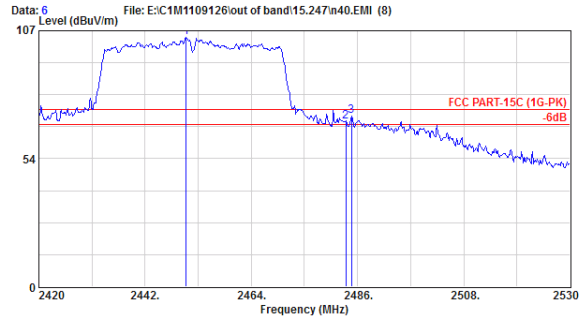
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2453.220	28.15	6.42	50.87	85.43	54.00	-31.43	Average
2	2483.580	28.18	6.45	16.32	50.96	54.00	3.04	Average
3	2483.690	28.18	6.45	16.22	50.85	54.00	3.15	Average

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 : Sep. 20, 2011 Temperature : 27
 EUT : Wi-Fi module Humidity : 49%
 Test Mode : 802.11n-HT40, Transmit, Channel: 09, Frequency: 2452MHz



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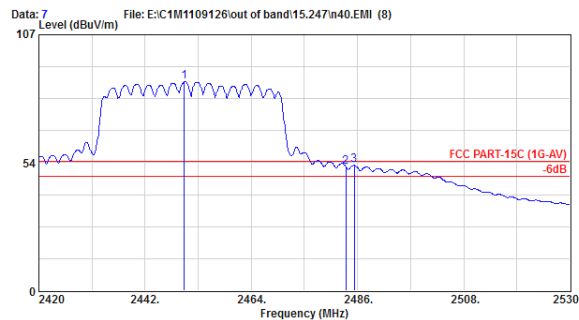
Site no. : A/C Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2452 (802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2450.470	28.15	6.41	69.58	104.14	74.00	-30.14	Peak
2	2483.580	28.18	6.45	34.41	69.05	74.00	4.95	Peak
3	2484.790	28.18	6.45	36.74	71.37	74.00	2.63	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 Data no. : 7
 Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 27°C/49% Jarwei Wang
 EUT : WN8122E
 Power Rating : DC 5V via Notebook
 Test Mode : TX2452 (802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2450.140	28.15	6.41	52.70	87.26	54.00	-33.26	Average
2	2483.580	28.18	6.45	17.28	51.92	54.00	2.08	Average
3	2485.340	28.18	6.45	17.77	52.41	54.00	1.59	Average

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

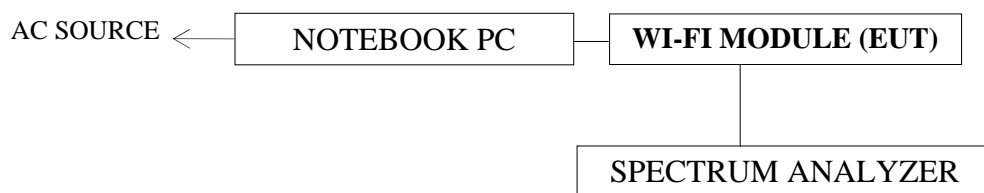
4. 6dB BANDWIDTH MEASUREMENT

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	N9010A-507	MY49061167	Feb. 24, 11'	Feb. 23, 12'

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 “Broadcom WL Command” 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 : Sep. 20, 2011 Temperature : 25 Humidity : 51%)

(Test Date : Sep. 21, 2011 Temperature : 26 Humidity : 55%)

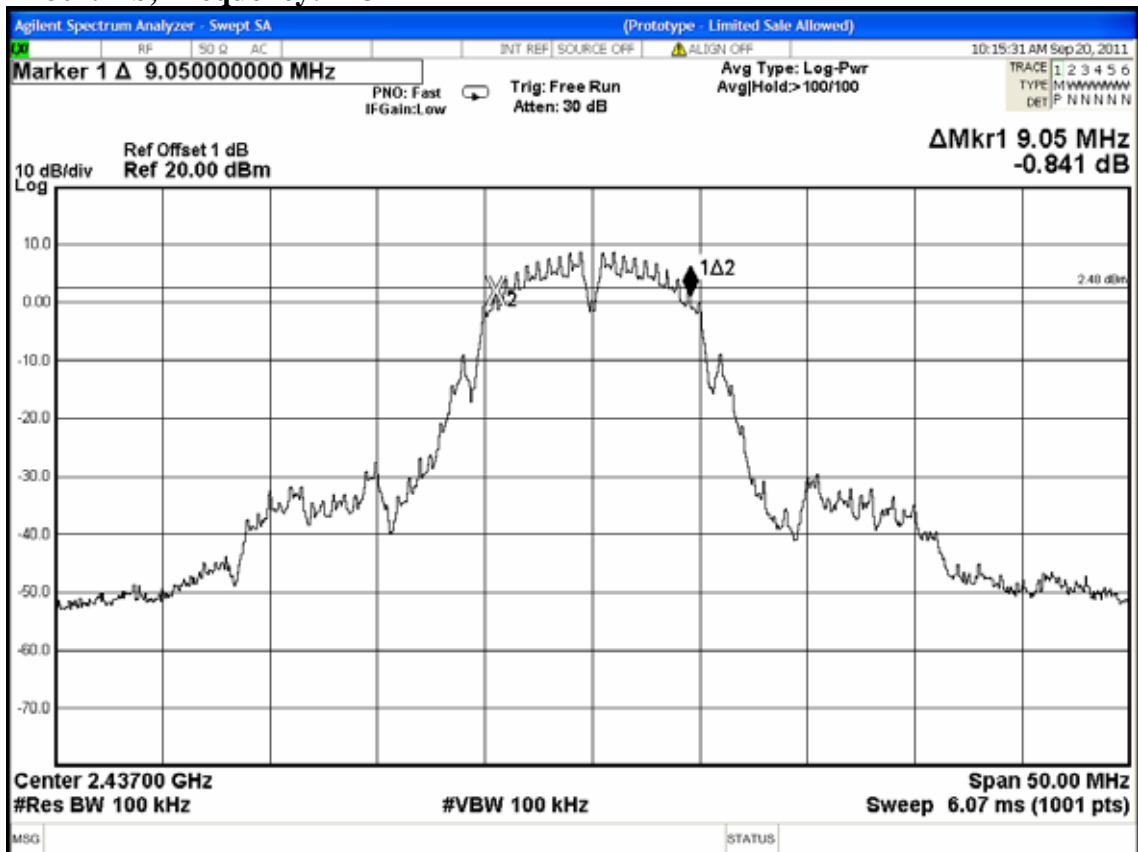
Mode	Type of Network	Channel	Frequency	6dB Bandwidth
1.	802.11b	CH 1	2412MHz	8.20MHz
2.		CH 6	2437MHz	9.05MHz
3.		CH 11	2462MHz	9.10MHz
4.	802.11g	CH 1	2412MHz	15.55MHz
5.		CH 6	2437MHz	15.25MHz
6.		CH 11	2462MHz	15.75MHz
7.	802.11a	CH 149	5745MHz	15.85MHz
8.		CH 157	5785MHz	15.75MHz
9.		CH 165	5825MHz	15.40MHz
10.	802.11n-HT20	CH 1	2412MHz	16.20MHz
11.		CH 6	2437MHz	16.45MHz
12.		CH 11	2462MHz	16.65MHz
13.	802.11n-HT20	CH 149	5745MHz	17..65MHz
14.		CH 157	5785MHz	17.65MHz
15.		CH 165	5825MHz	17.30MHz
16.	802.11n-HT40	CH 3	2422MHz	36.48MHz
17.		CH 6	2437MHz	36.40MHz
18.		CH 9	2452MHz	36.48MHz
19.	802.11n-HT40	CH 151	5755MHz	36.16MHz
20.		CH 159	5795MHz	36.48MHz

[Limit: least 500kHz]

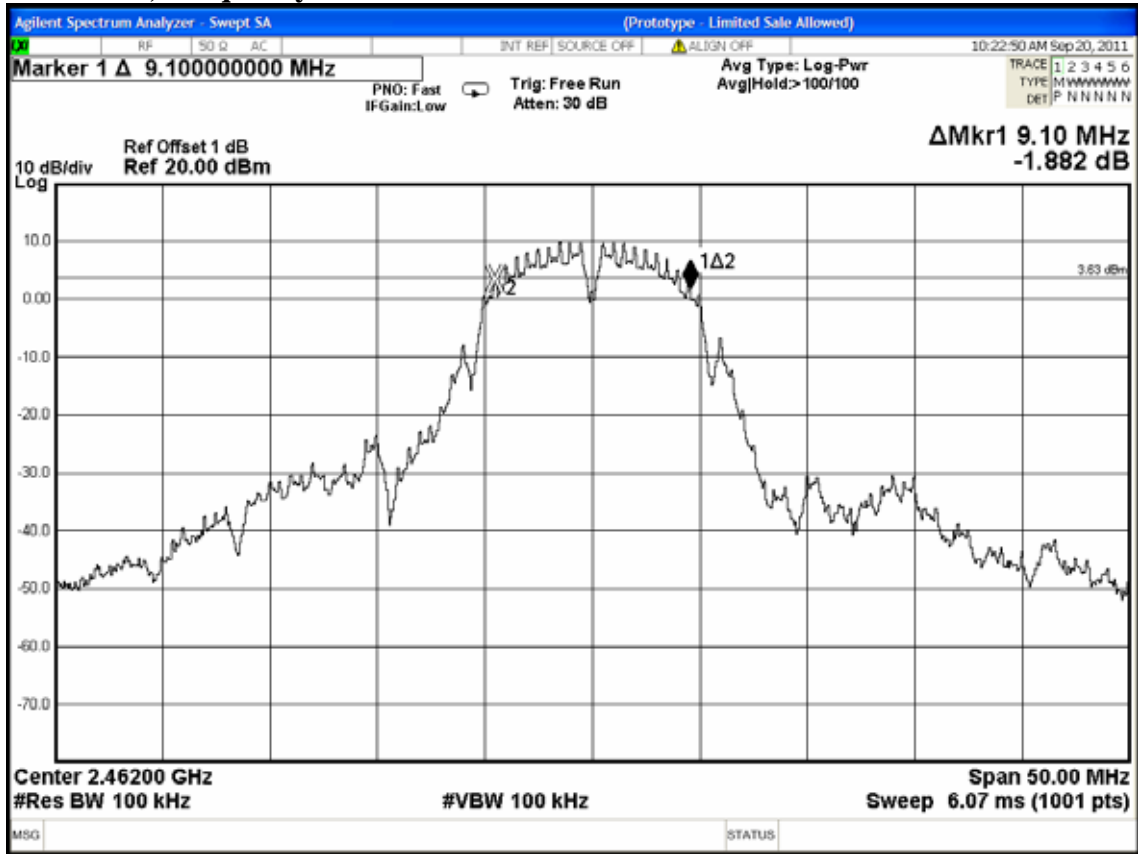
802.11b, Frequency: 2412MHz



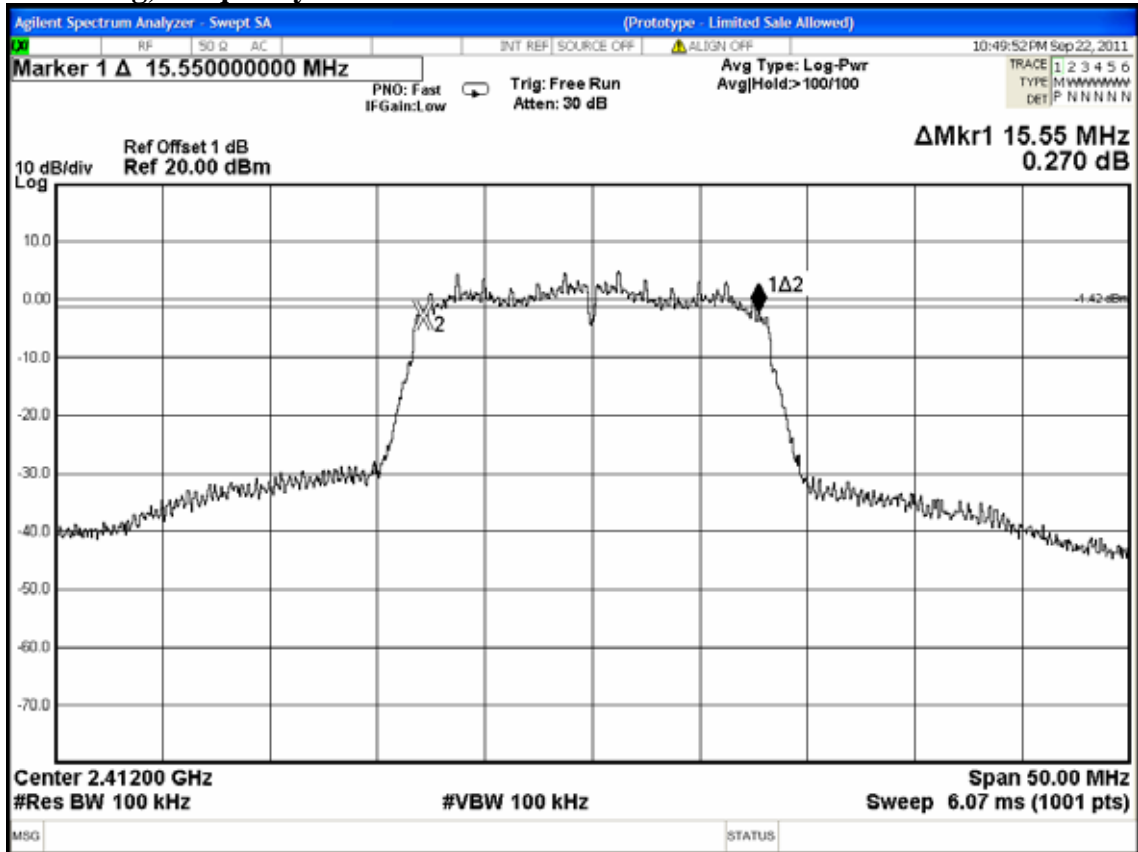
802.11b, Frequency: 2437MHz



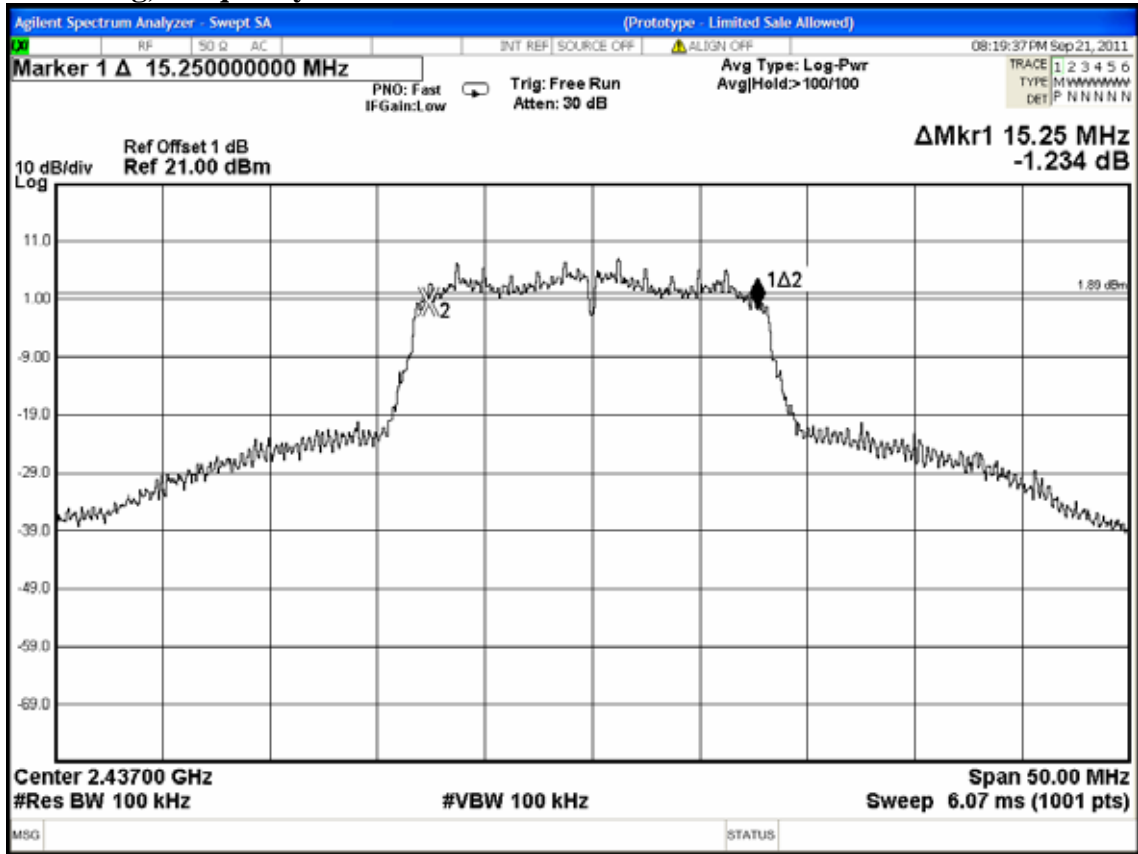
802.11b, Frequency: 2462MHz



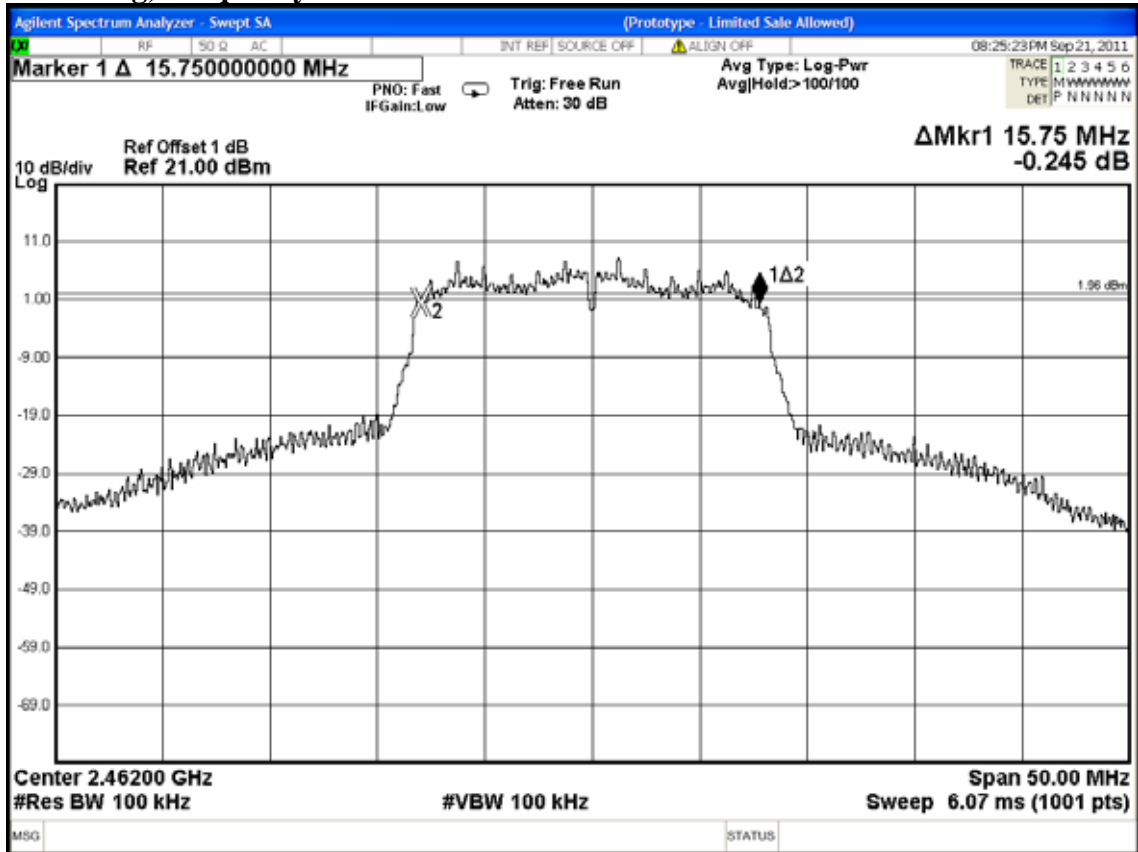
802.11g, Frequency: 2412MHz



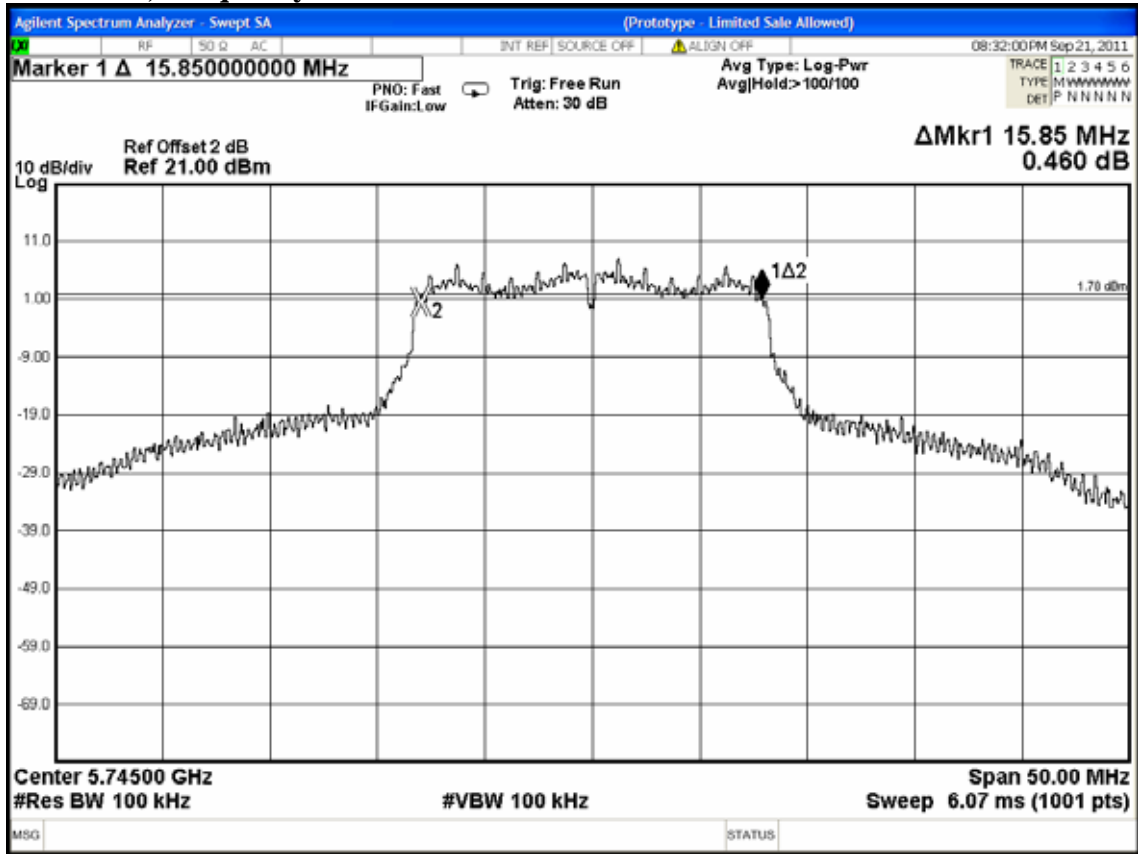
802.11g, Frequency: 2437MHz



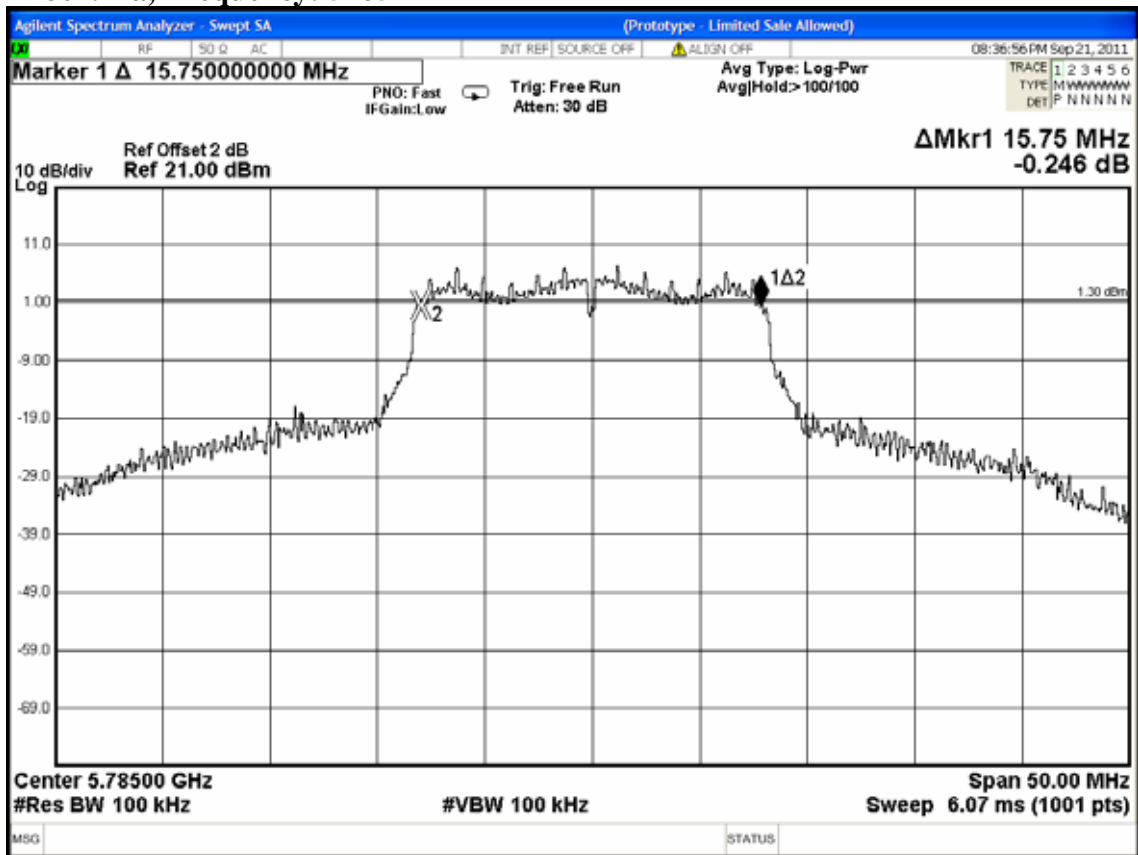
802.11g, Frequency: 2462MHz



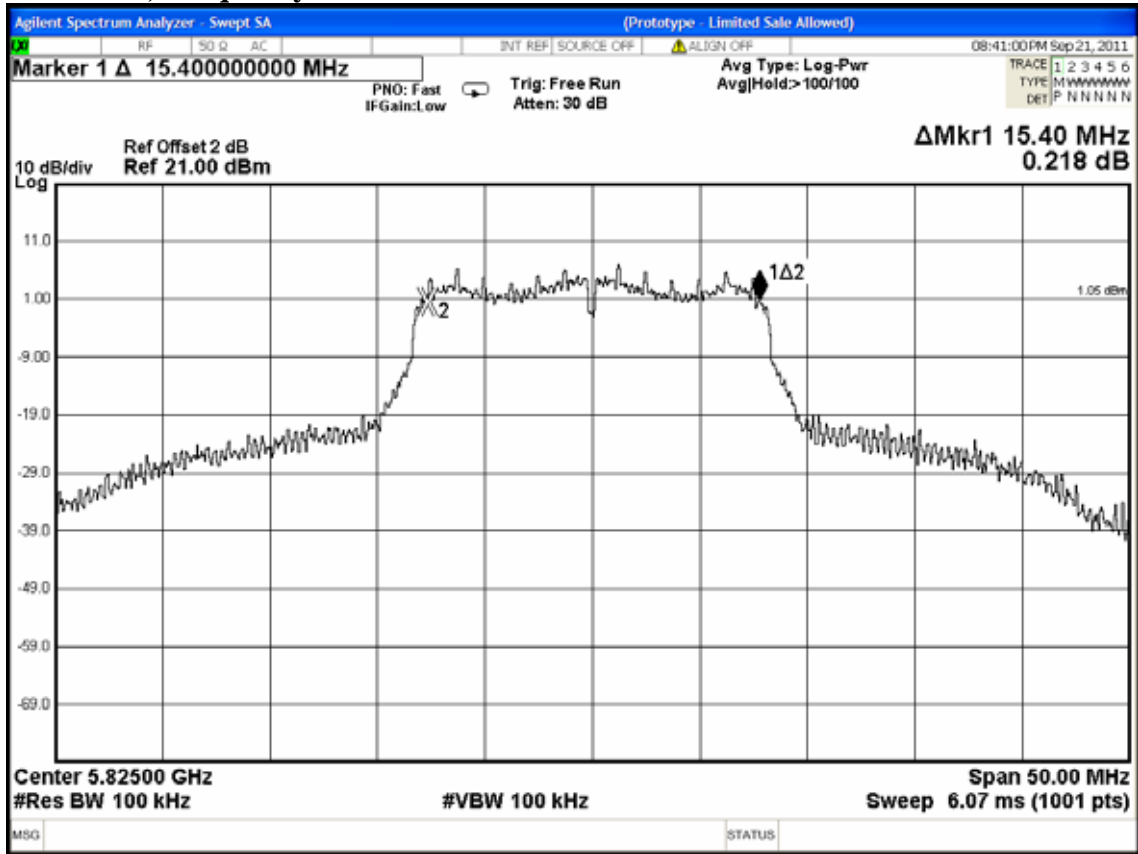
802.11a, Frequency: 5745MHz



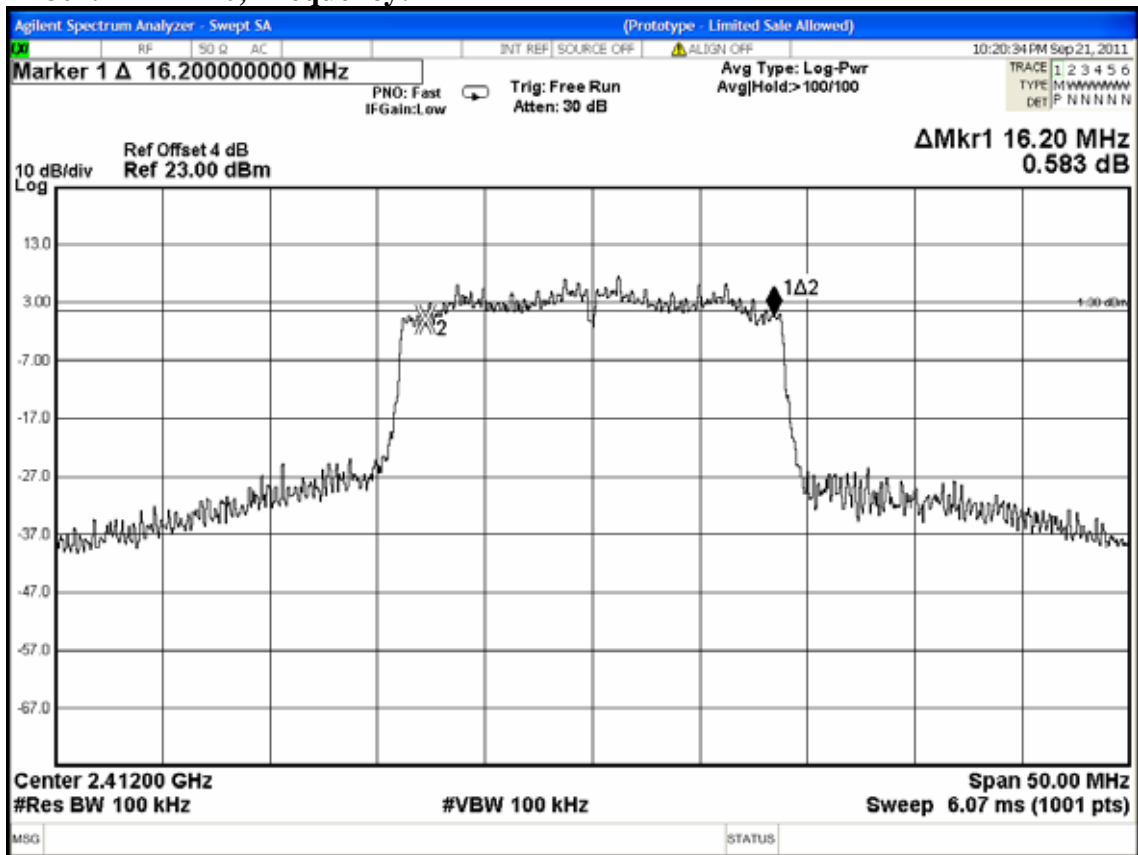
802.11a, Frequency: 5785MHz



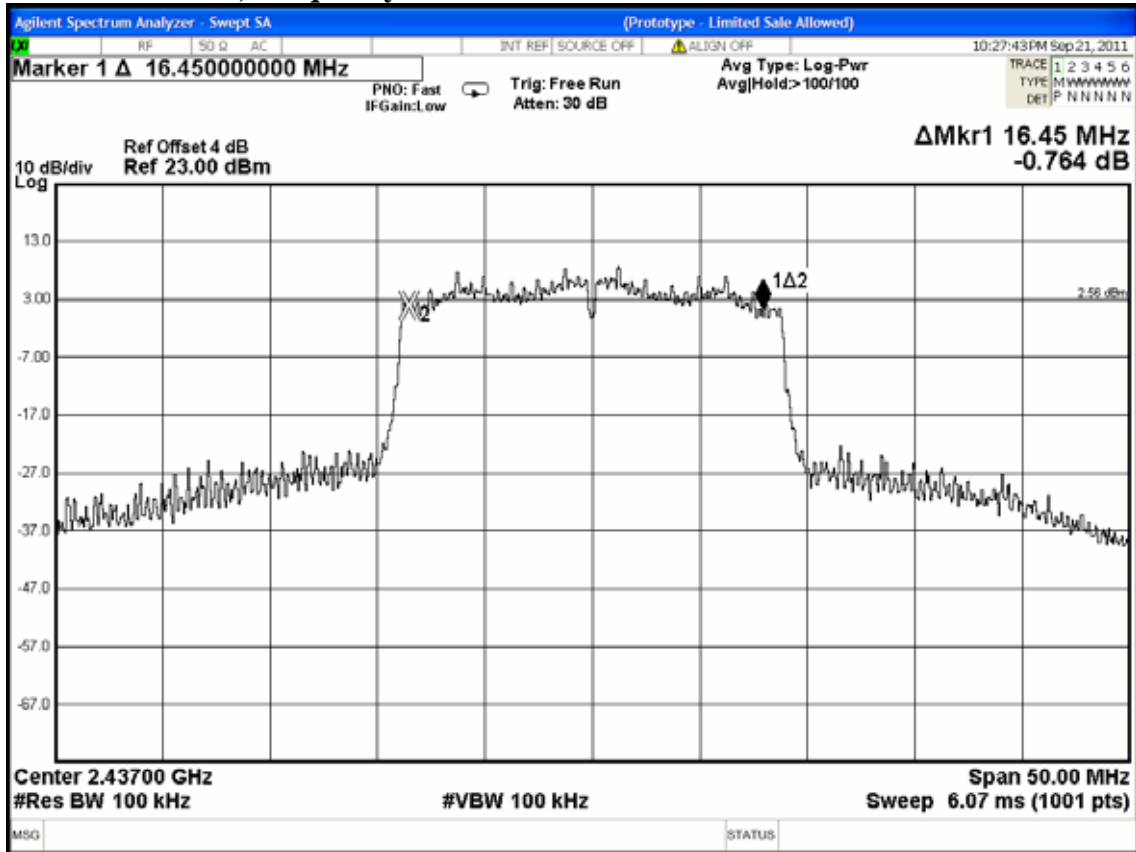
802.11a, Frequency: 5825MHz



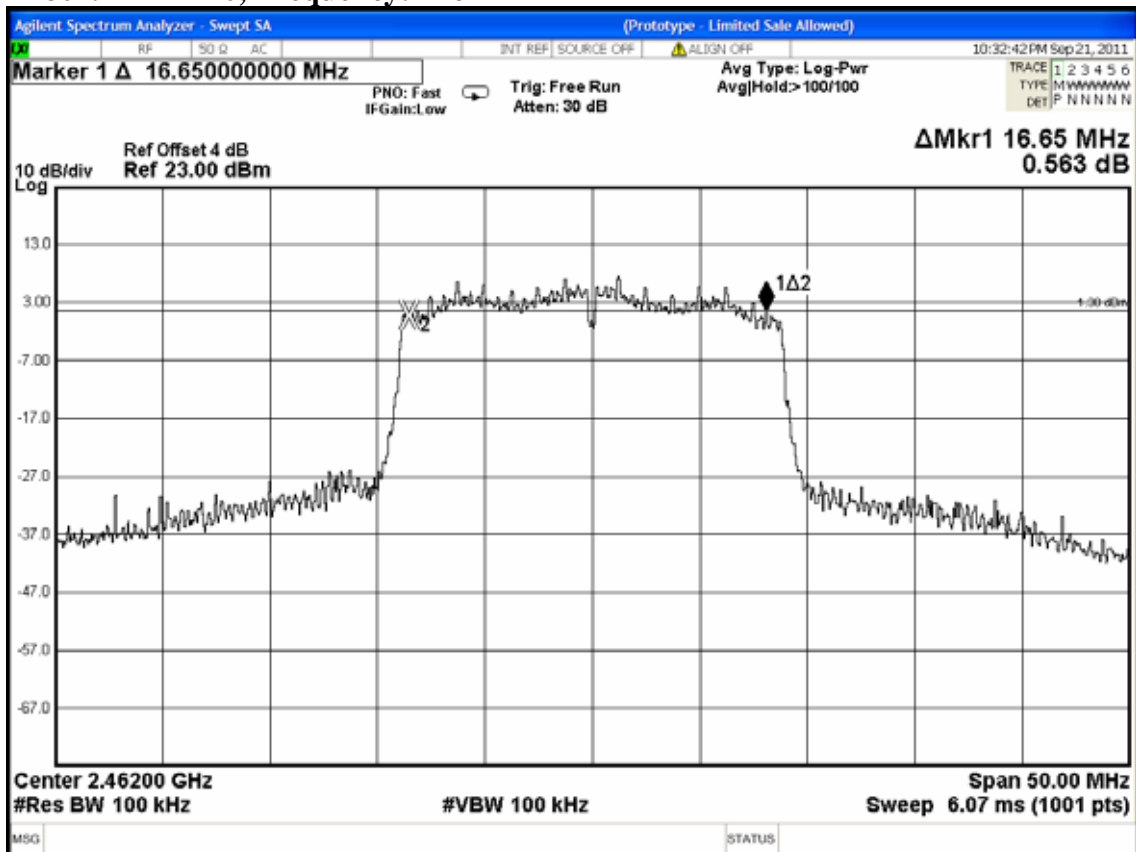
802.11n-HT20, Frequency: 2412MHz



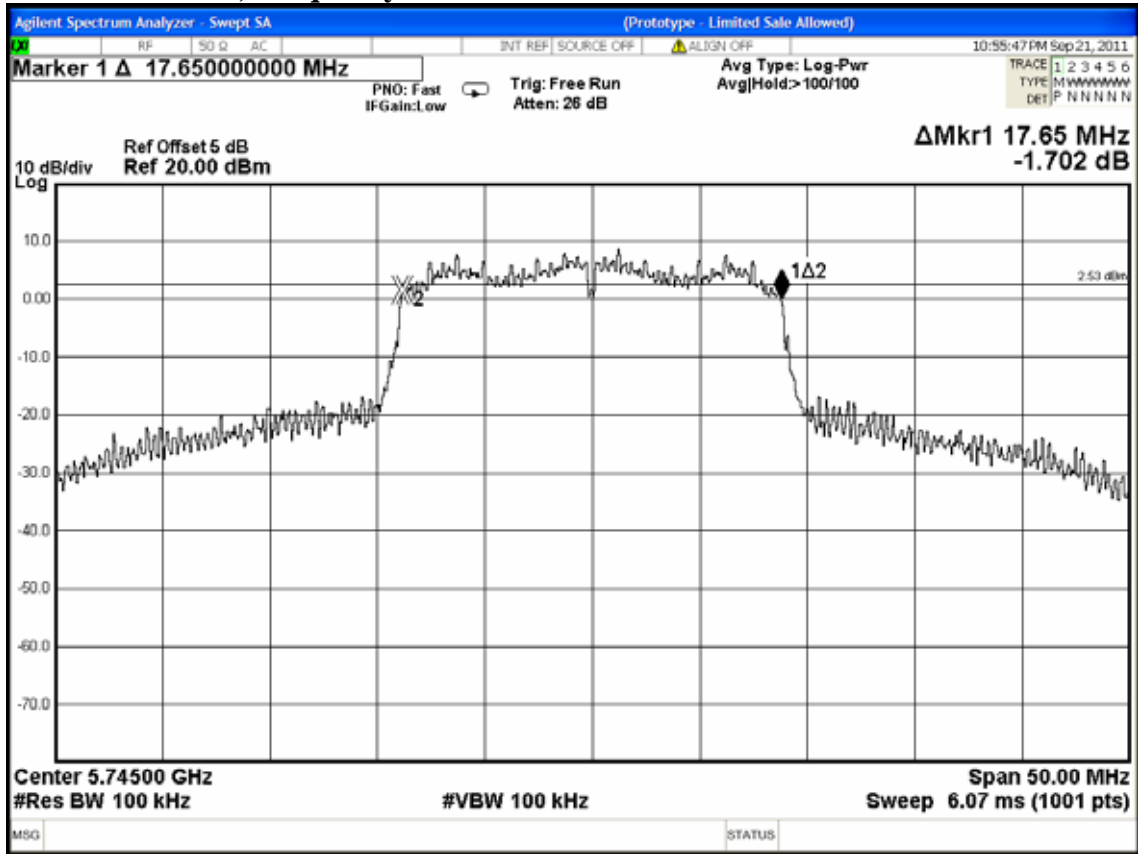
802.11n-HT20, Frequency: 2437MHz



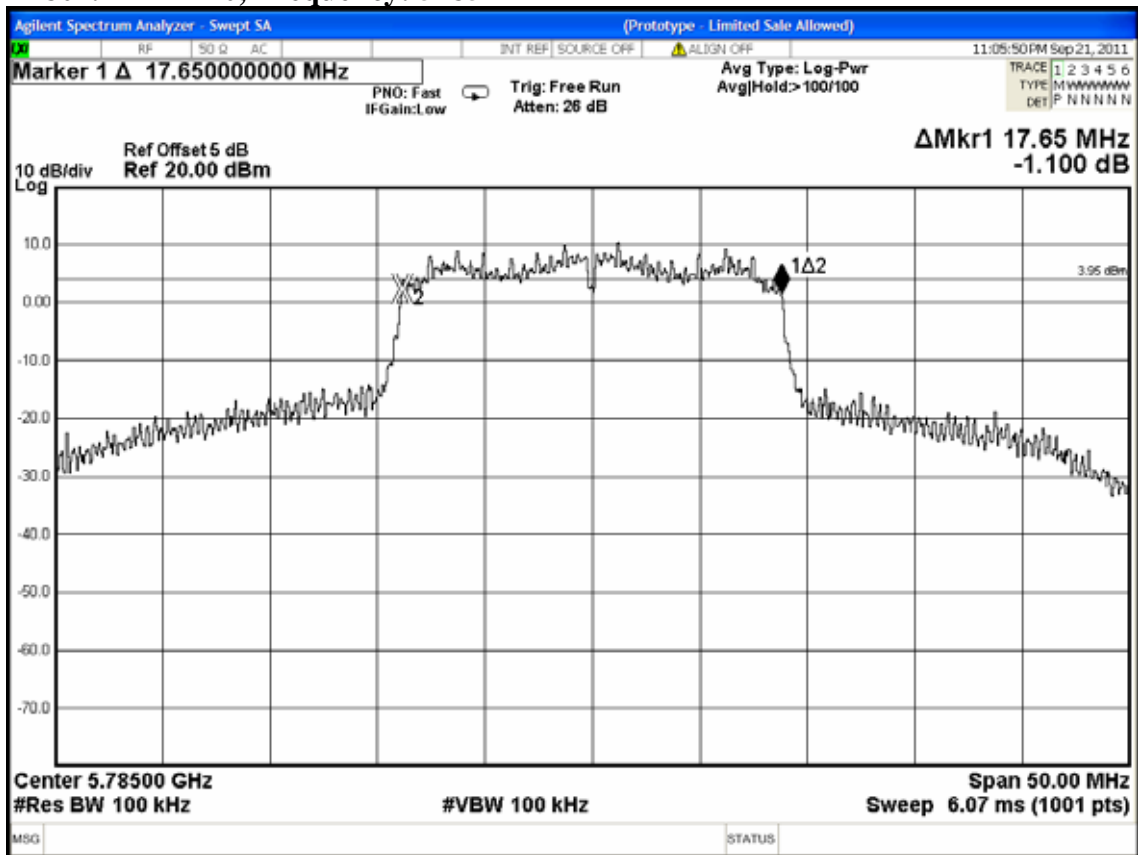
802.11n-HT20, Frequency: 2462MHz



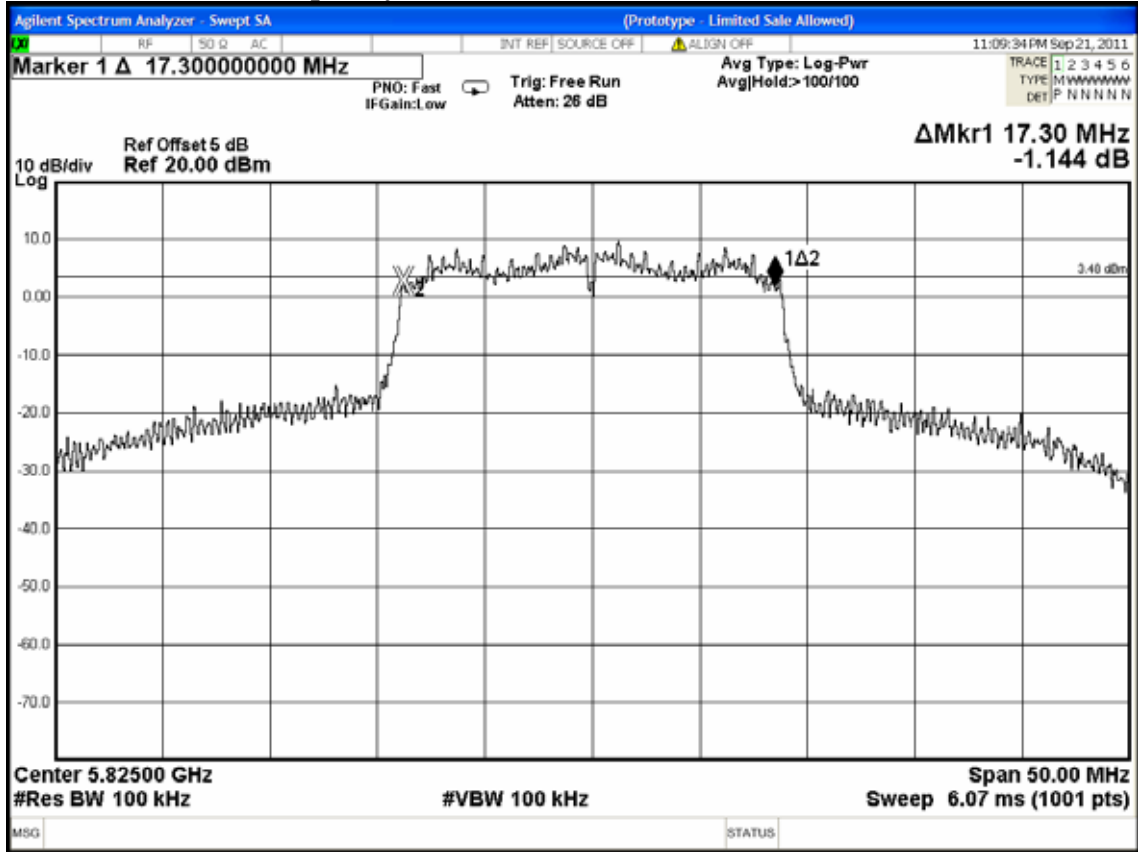
802.11n-HT20, Frequency: 5745MHz



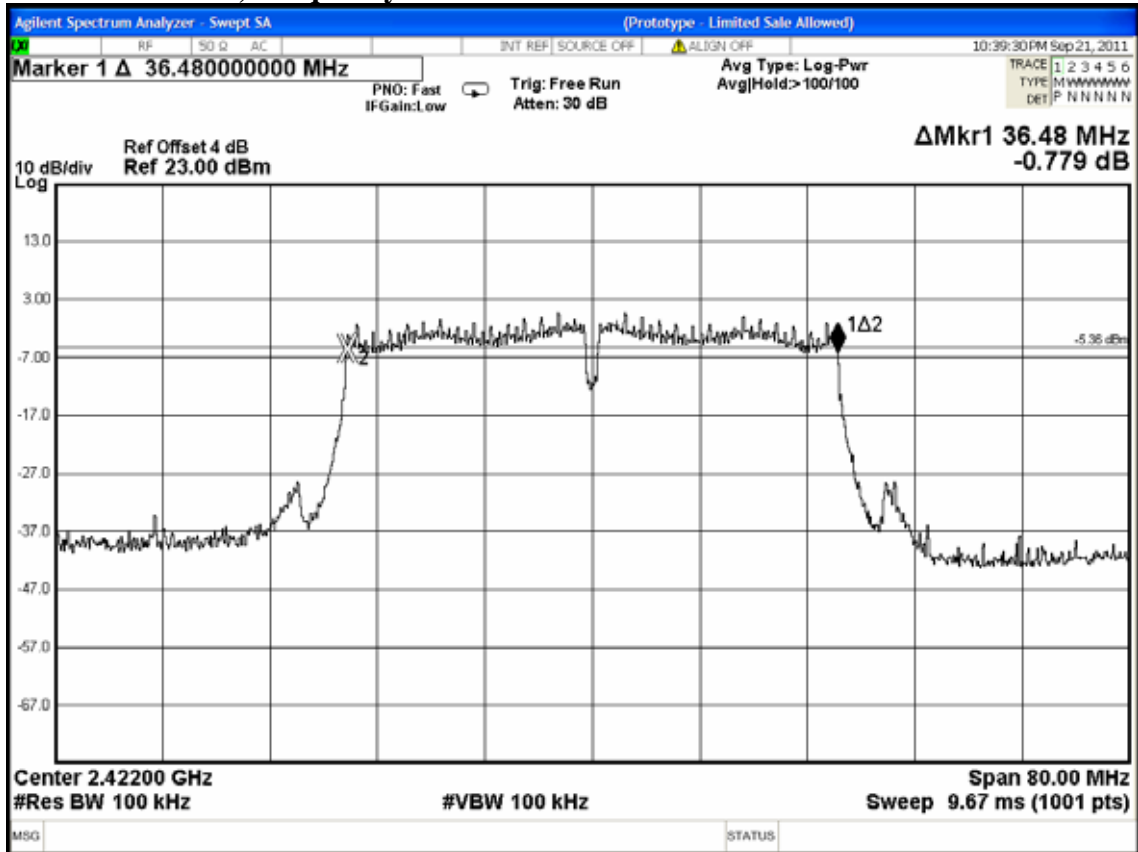
802.11n-HT20, Frequency: 5785MHz



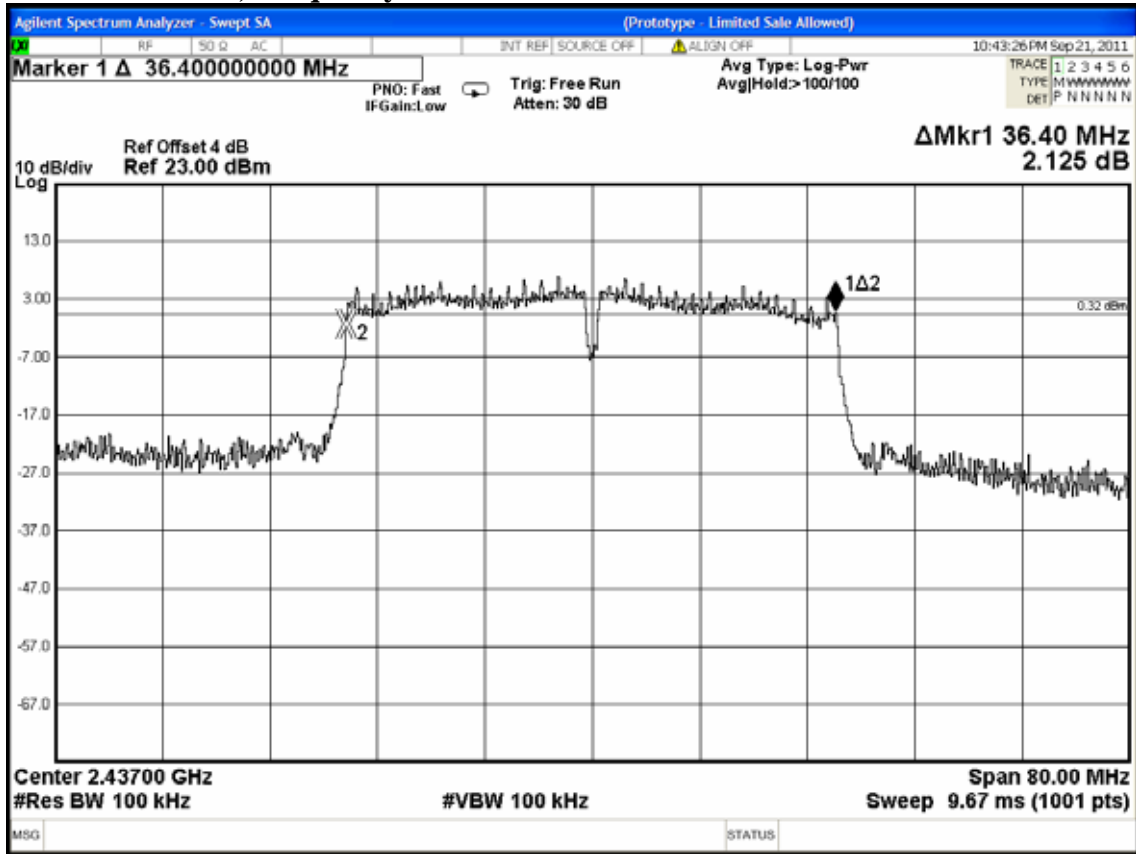
802.11n-HT20, Frequency: 5825MHz



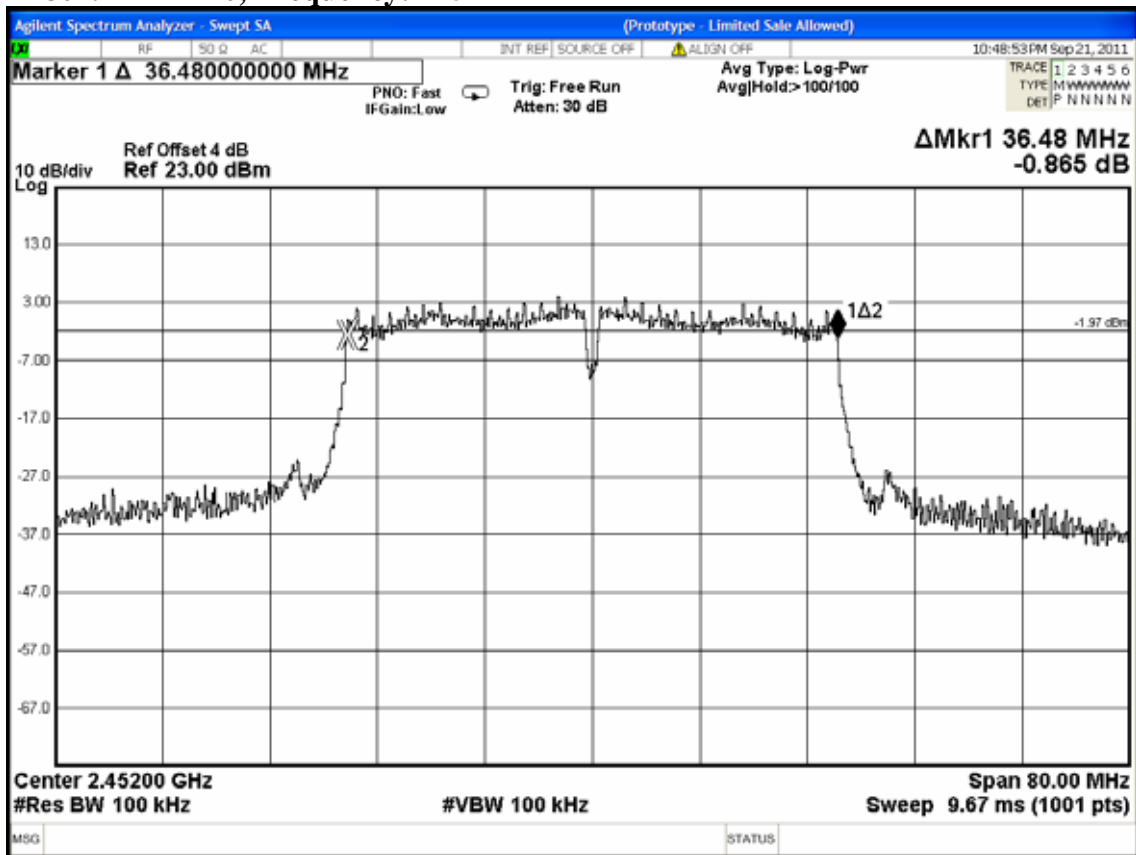
802.11n-HT40, Frequency: 2422MHz



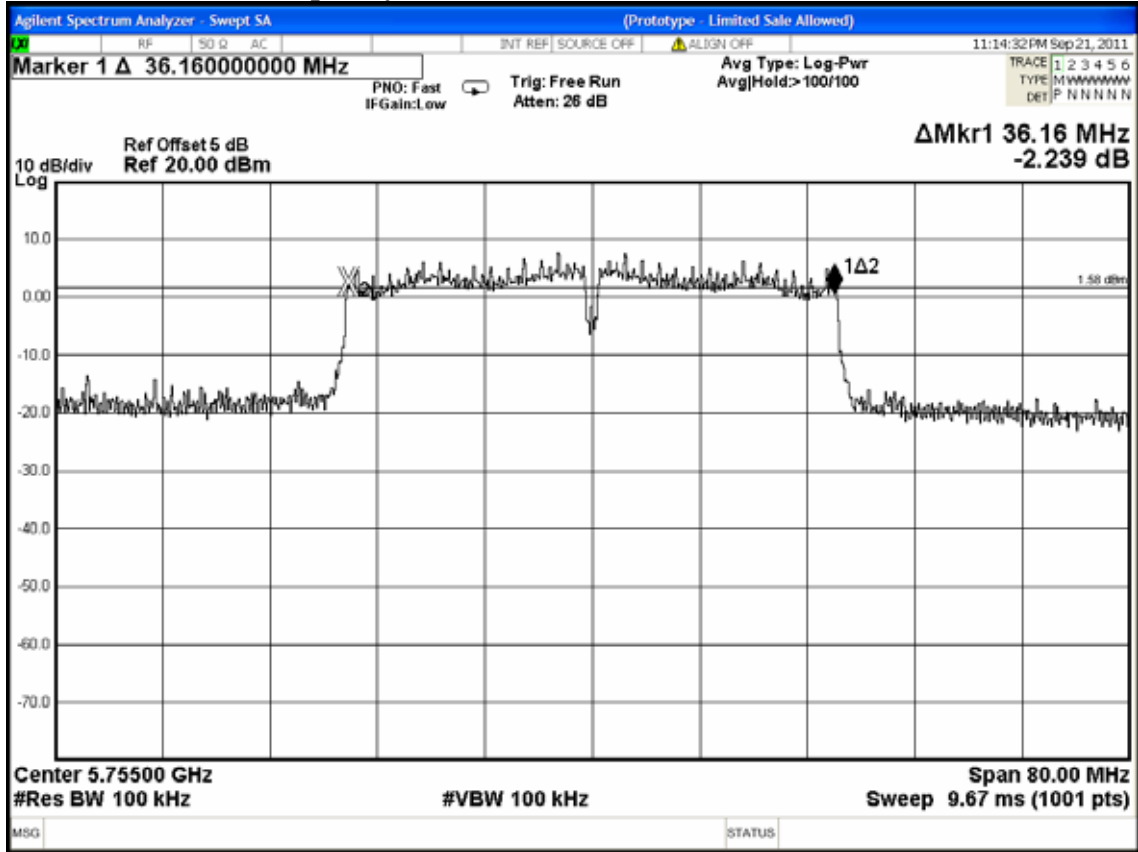
802.11n-HT40, Frequency: 2437MHz



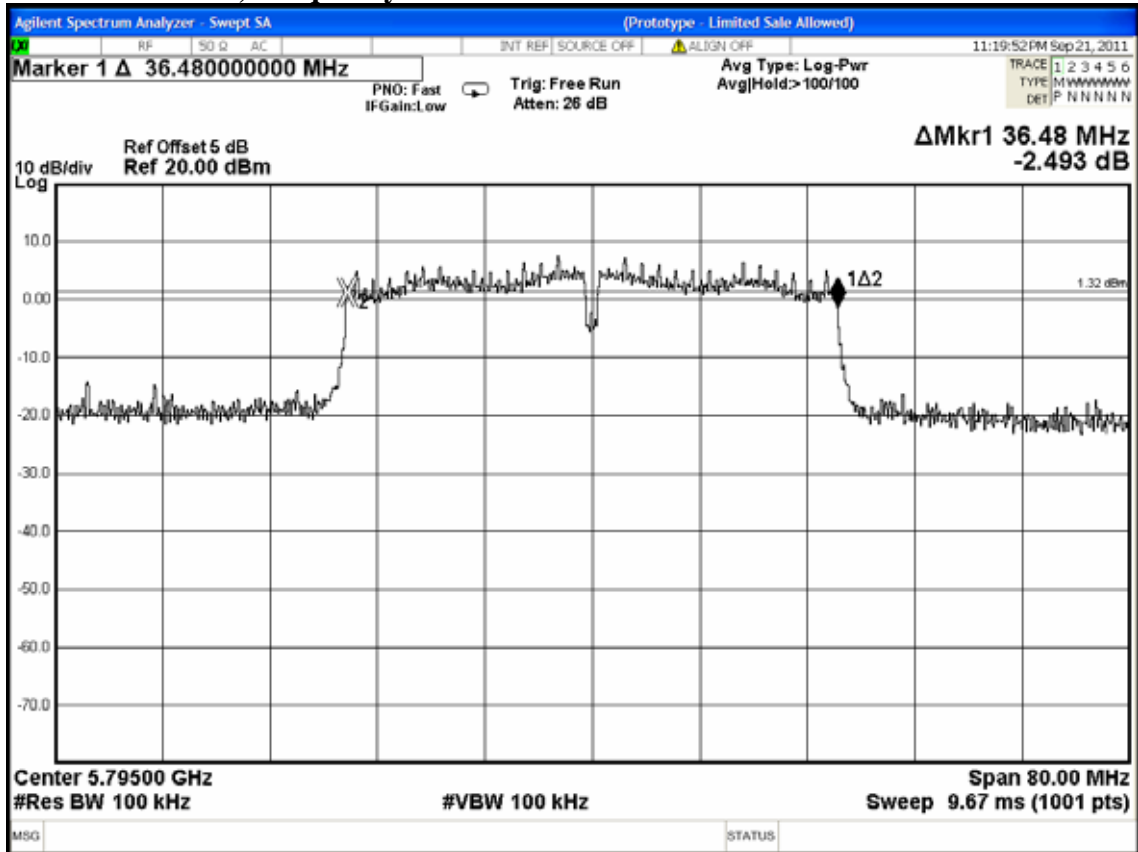
802.11n-HT40, Frequency: 2452MHz



802.11n-HT40, Frequency: 5755MHz



802.11n-HT40, Frequency: 5795MHz



5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

5.1. Test Equipment

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

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A-507	MY49061167	Feb. 24, 11'	Feb. 23, 12'

5.2. Block Diagram of Test Setup

The same as section.4.2.

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

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz & 5725-5850MHz is : 1Watt. (30dBm)

5.4. Operating Condition of EUT

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

5.5. Test Procedure

Setting the spectrum span to encompass the EBW, RBW=1MHz and VBW=3MHz. Compute power by channel power function of spectrum analyzer.

The measurement guideline was according to KDB 558074.

Pursuant to KDB 662911, we performed conducted tests for both antenna chains and submit test data measured on chain 0 as worse performance.

5.6. Test Results

PASSED. All the test results are listed below.

Pursuant to KDB 662911, the test result has been included 3 dB is calculated from $10\log(N)$, where N is the number of outputs.

(Test Date : Sep. 21, 2011 Temperature : 26 Humidity : 55%)

(Test Date : Sep. 26, 2011 Temperature : 25 Humidity : 54%)

5.6.1. For 802.11b/802.11g/802.11a

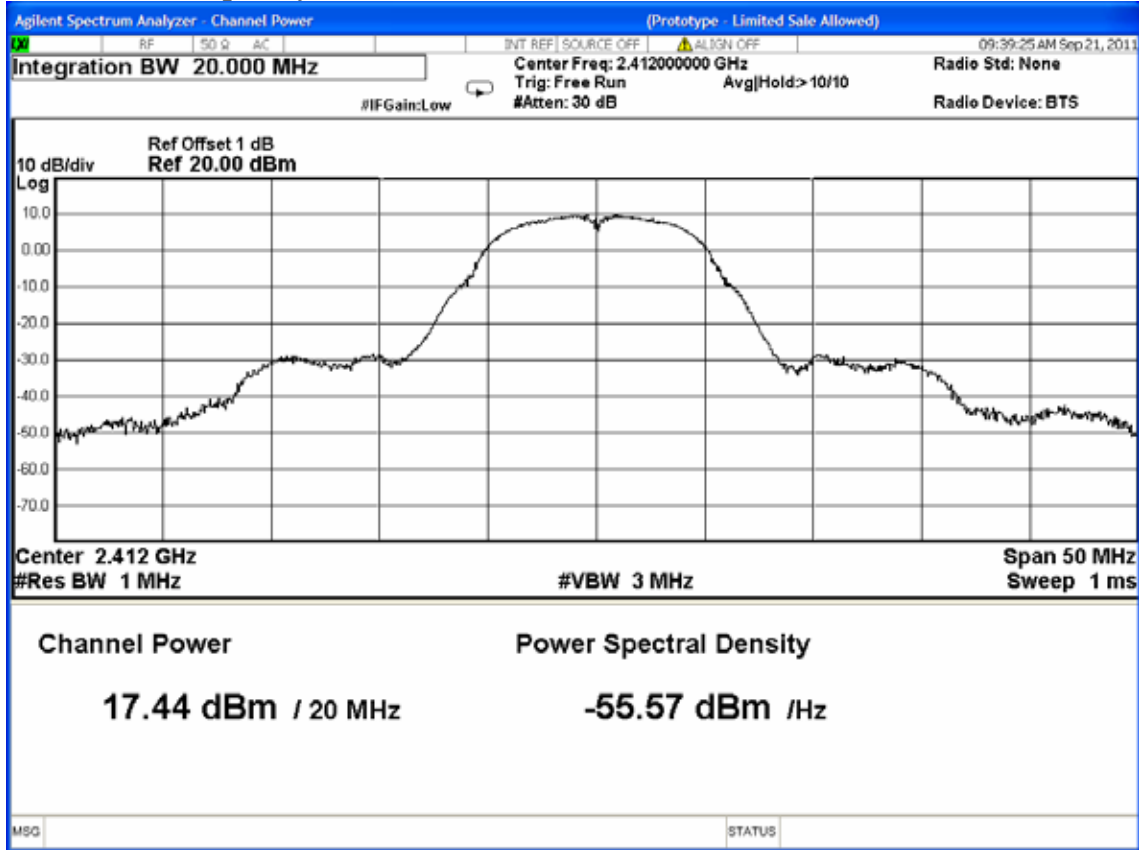
Mode	Type of Network	Channel	Frequency	Peak Output Power (dBm)	Power Setting
1.	802.11b	CH 1	2412MHz	17.44	62
2.		CH 6	2437MHz	17.58	62
3.		CH 11	2462MHz	17.82	62

[Limit: 1Watt. (30dBm)]

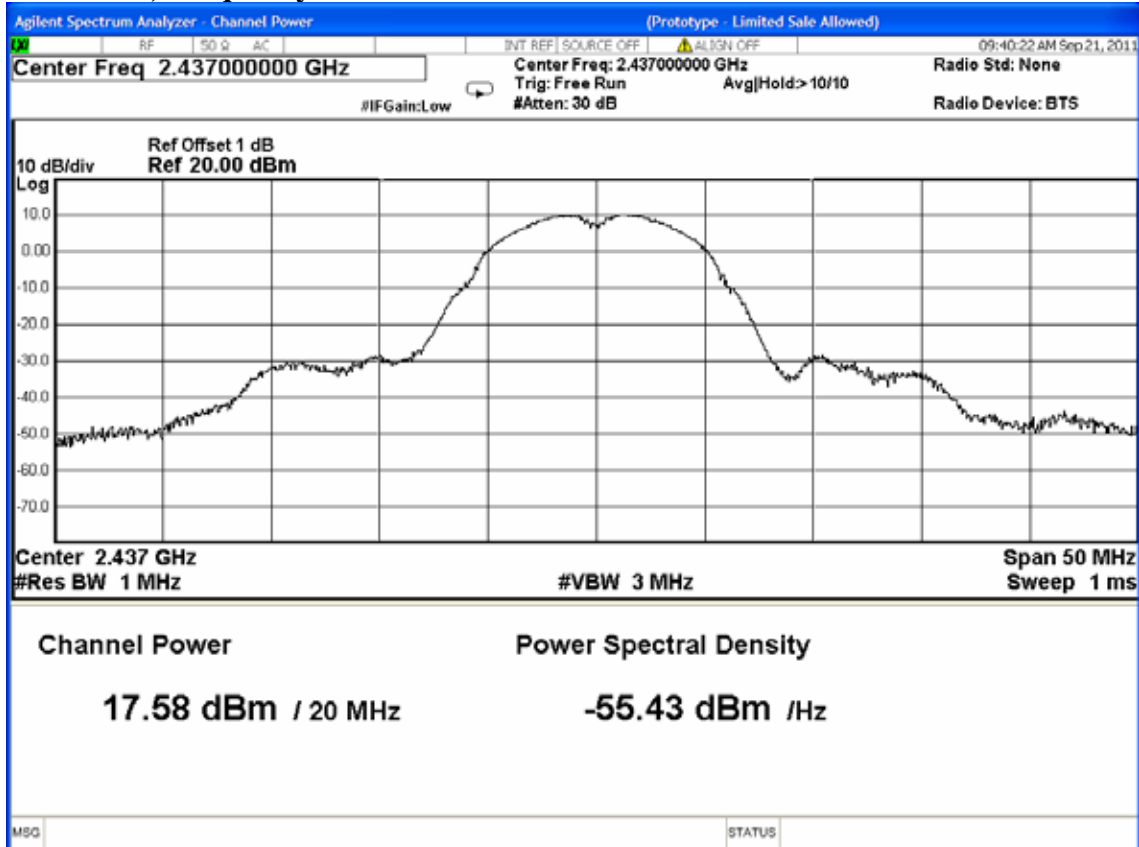
5.6.2. For 802.11n-HT20/802.11n-HT40

Mode	Type of Network	Channel	Frequency	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Power Setting
				Ant.0	Ant.1		
1.	802.11g	CH 1	2412MHz	14.47	14.45	17.47	56
2.		CH 6	2437MHz	16.30	16.21	19.27	62
3.		CH 11	2462MHz	14.62	14.49	17.57	56
4.	802.11a	CH 149	5745MHz	16.43	16.40	19.43	64
5.		CH 157	5785MHz	15.97	16.01	19.00	64
6.		CH 165	5825MHz	15.47	15.55	18.52	64
7.	802.11n-HT20	CH 1	2412MHz	15.17	15.10	18.15	56
8.		CH 6	2437MHz	15.83	15.77	18.81	60
9.		CH 11	2462MHz	15.01	14.90	17.97	56
10.	802.11n-HT20	CH 149	5745MHz	16.27	16.25	19.27	40
11.		CH 157	5785MHz	16.64	16.65	19.66	62
12.		CH 165	5825MHz	16.12	16.47	19.31	52
13.	802.11n-HT40	CH 3	2422MHz	10.97	11.06	14.03	62
14.		CH 6	2437MHz	16.39	16.34	19.38	68
15.		CH 9	2452MHz	14.12	14.34	17.24	68
16.	802.11n-HT40	CH 151	5755MHz	16.88	16.61	19.76	68
17.		CH 159	5795MHz	16.61	16.61	19.62	68

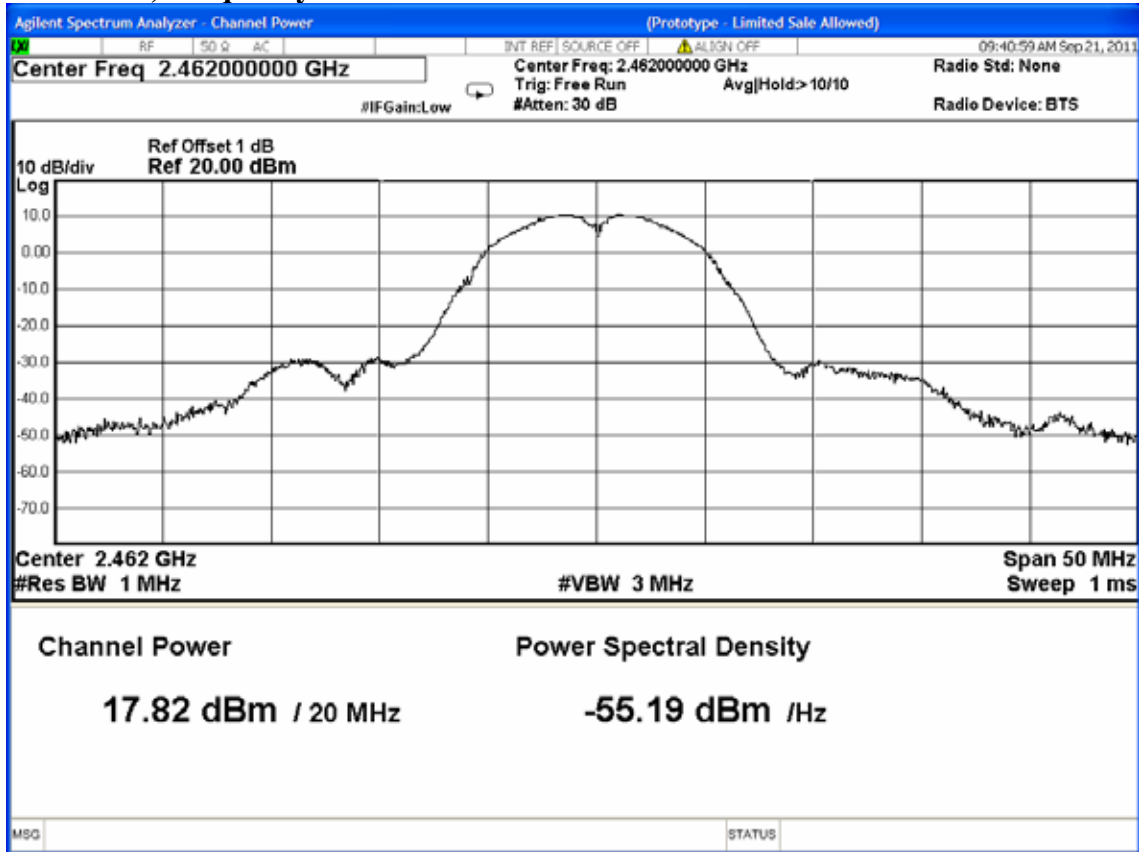
802.11b, Frequency: 2412MHz



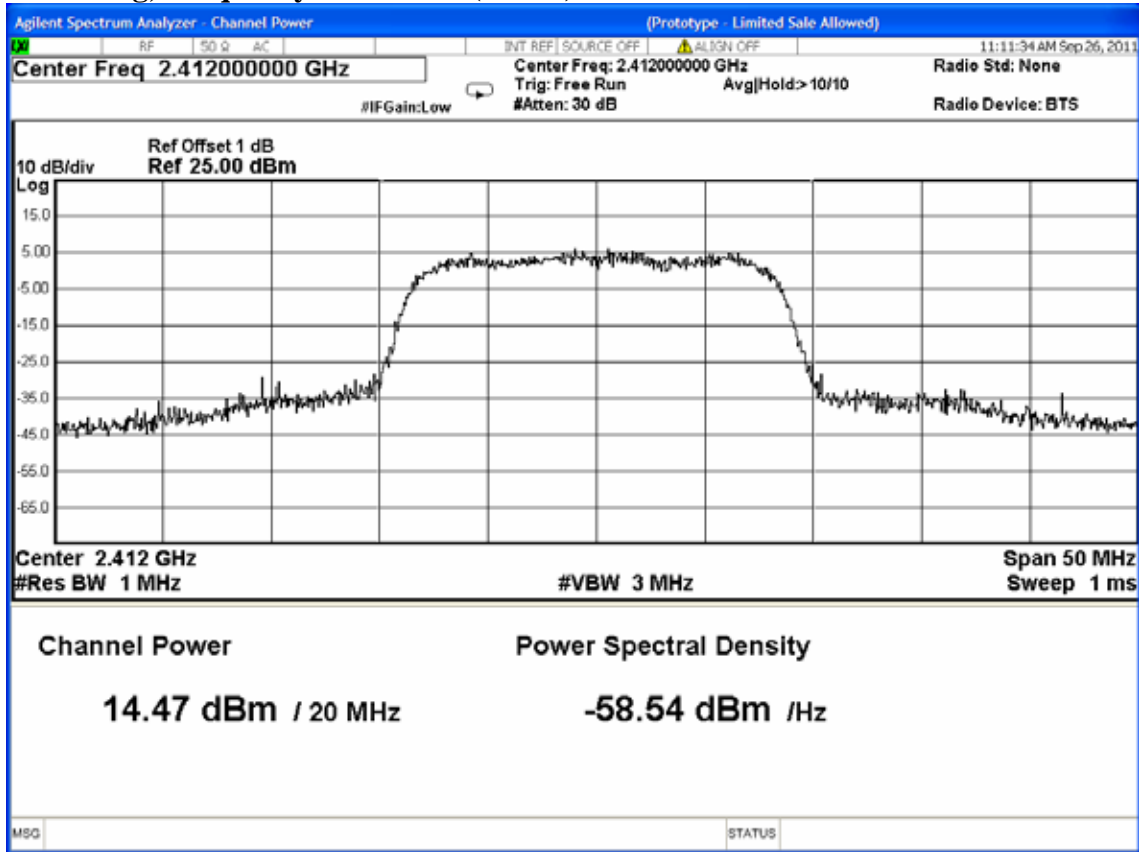
802.11b, Frequency: 2437MHz



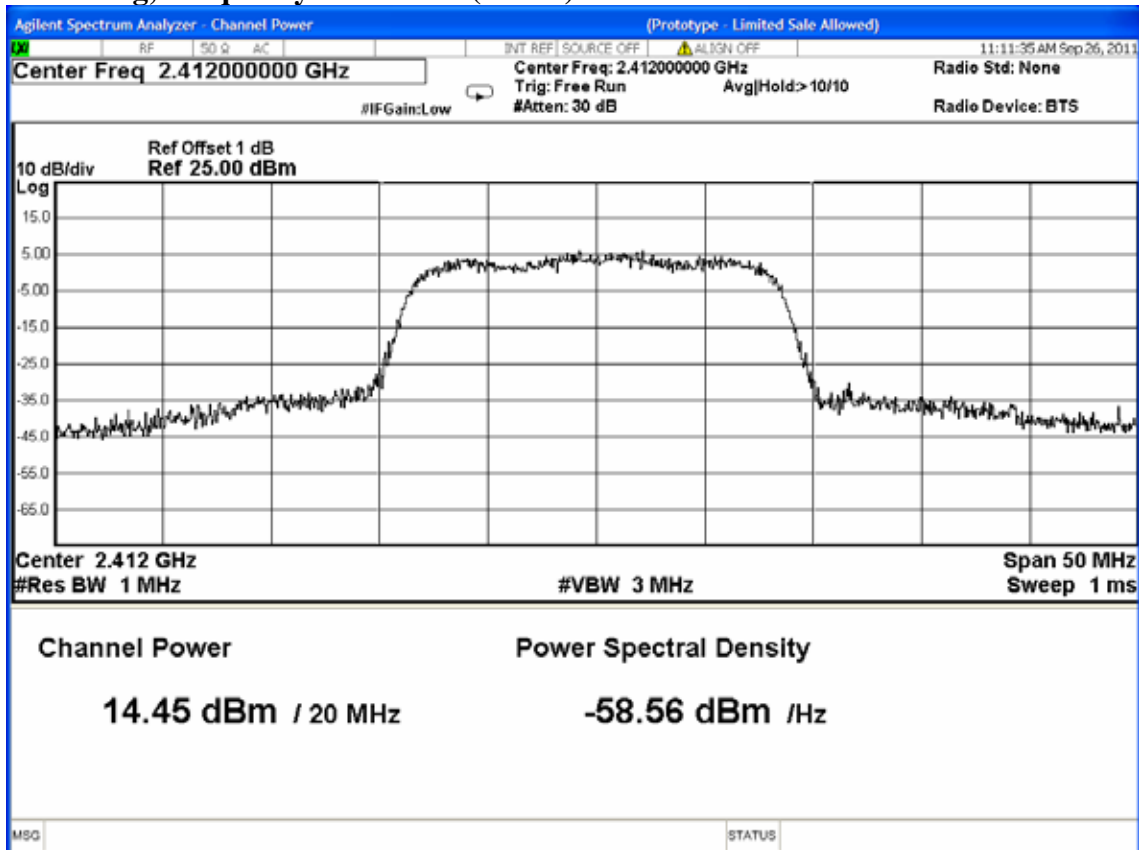
802.11b, Frequency: 2462MHz



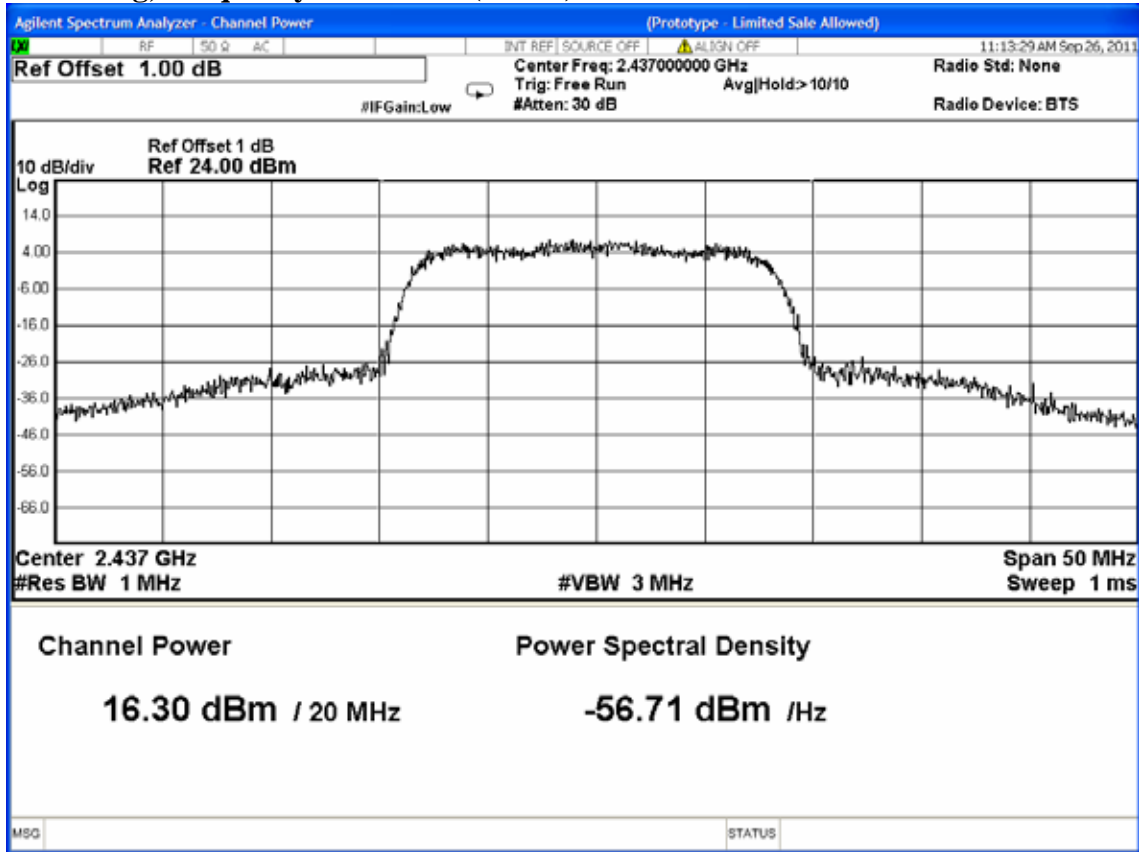
802.11g, Frequency: 2412MHz (Ant. 0)



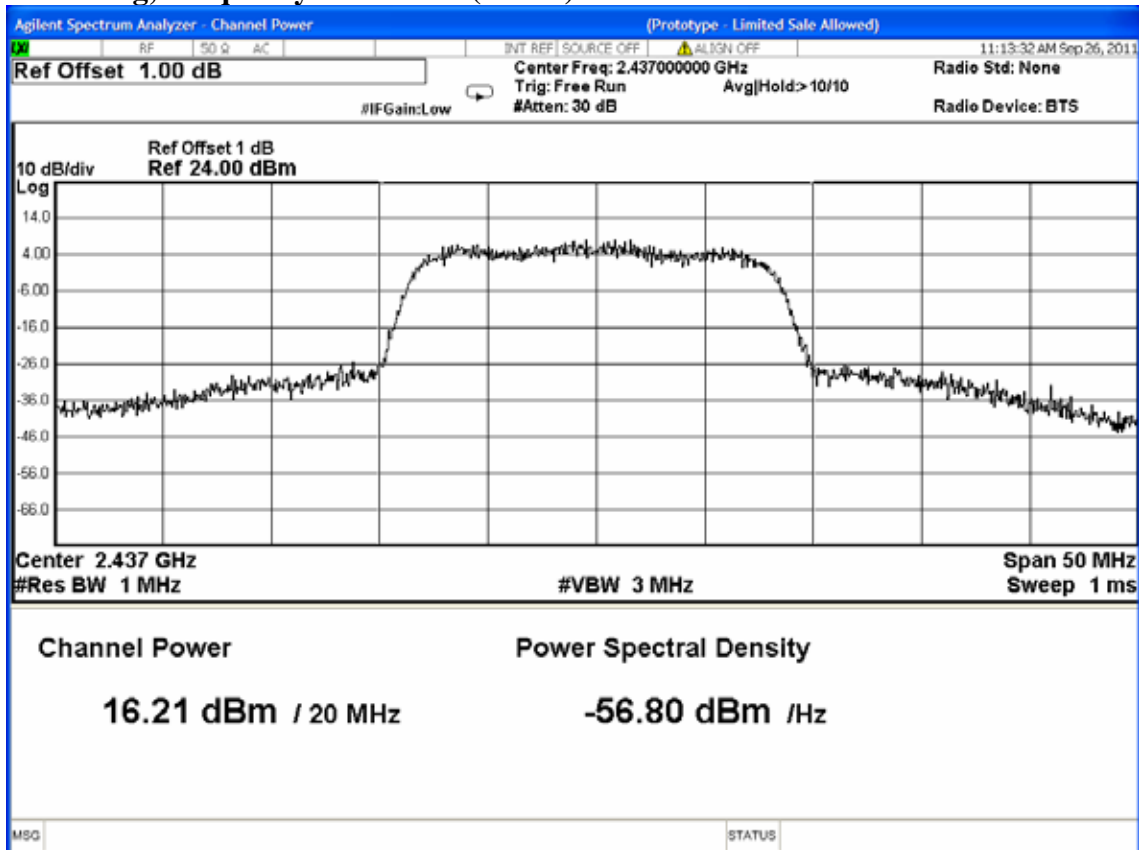
802.11g, Frequency: 2412MHz (Ant. 1)



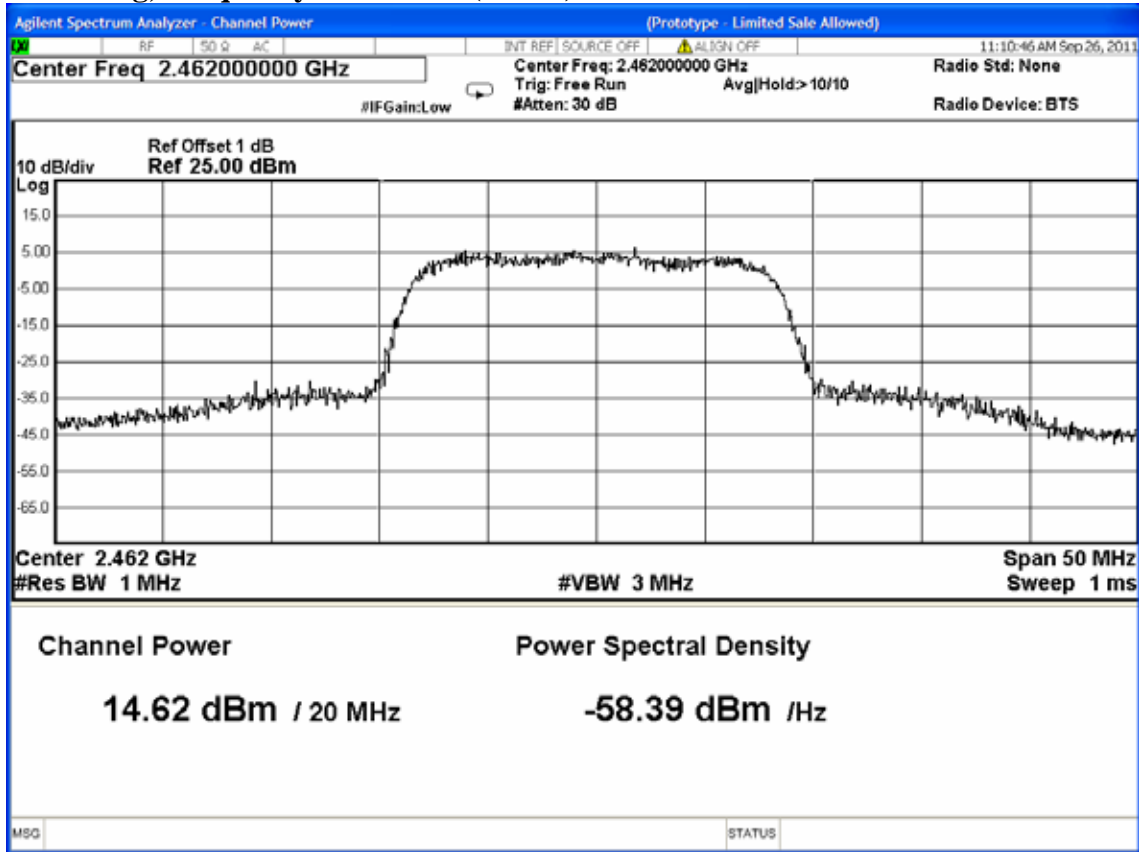
802.11g, Frequency: 2437MHz (Ant. 0)



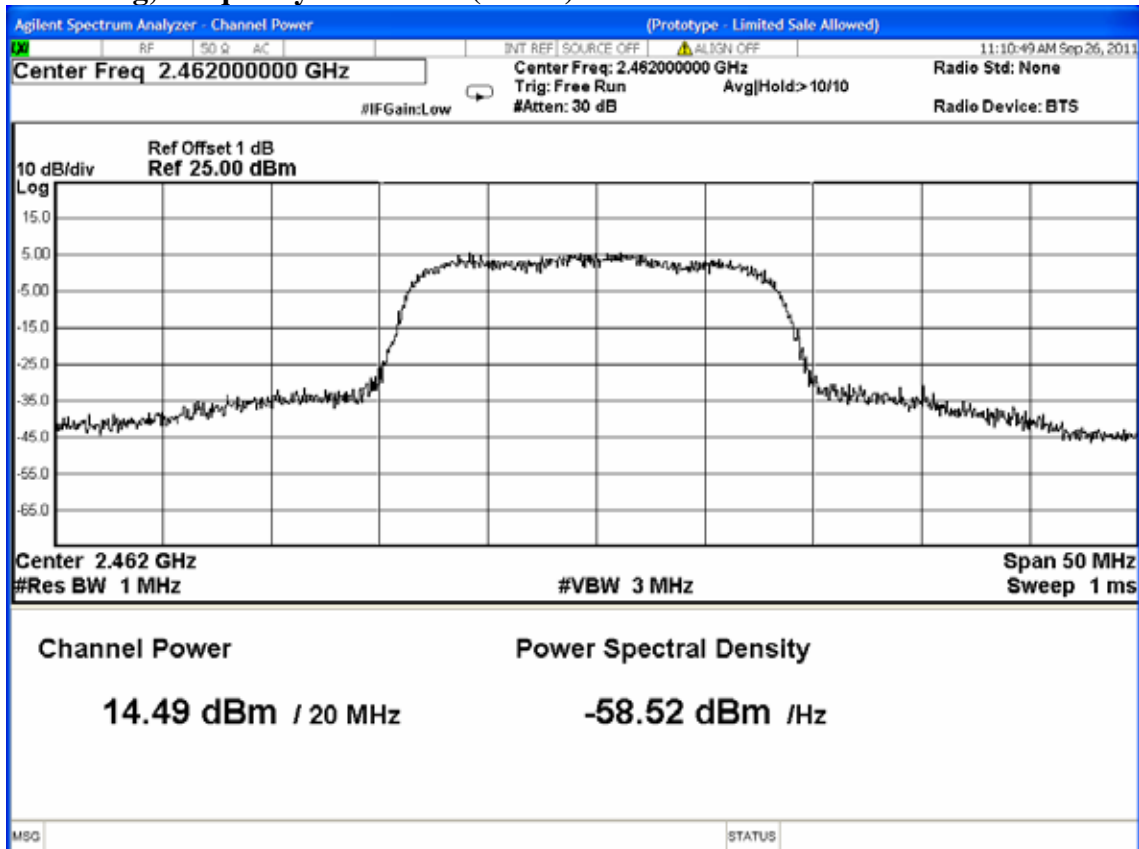
802.11g, Frequency: 2437MHz (Ant. 1)



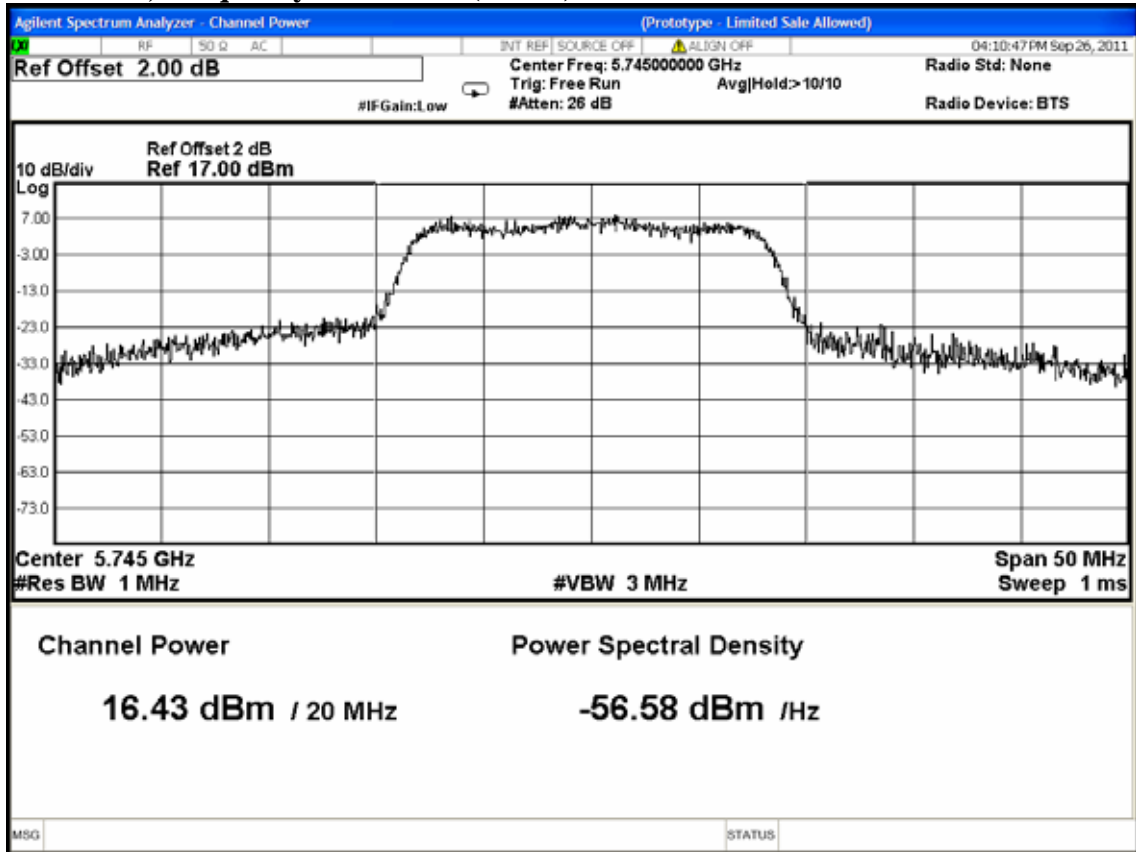
802.11g, Frequency: 2462MHz (Ant. 0)



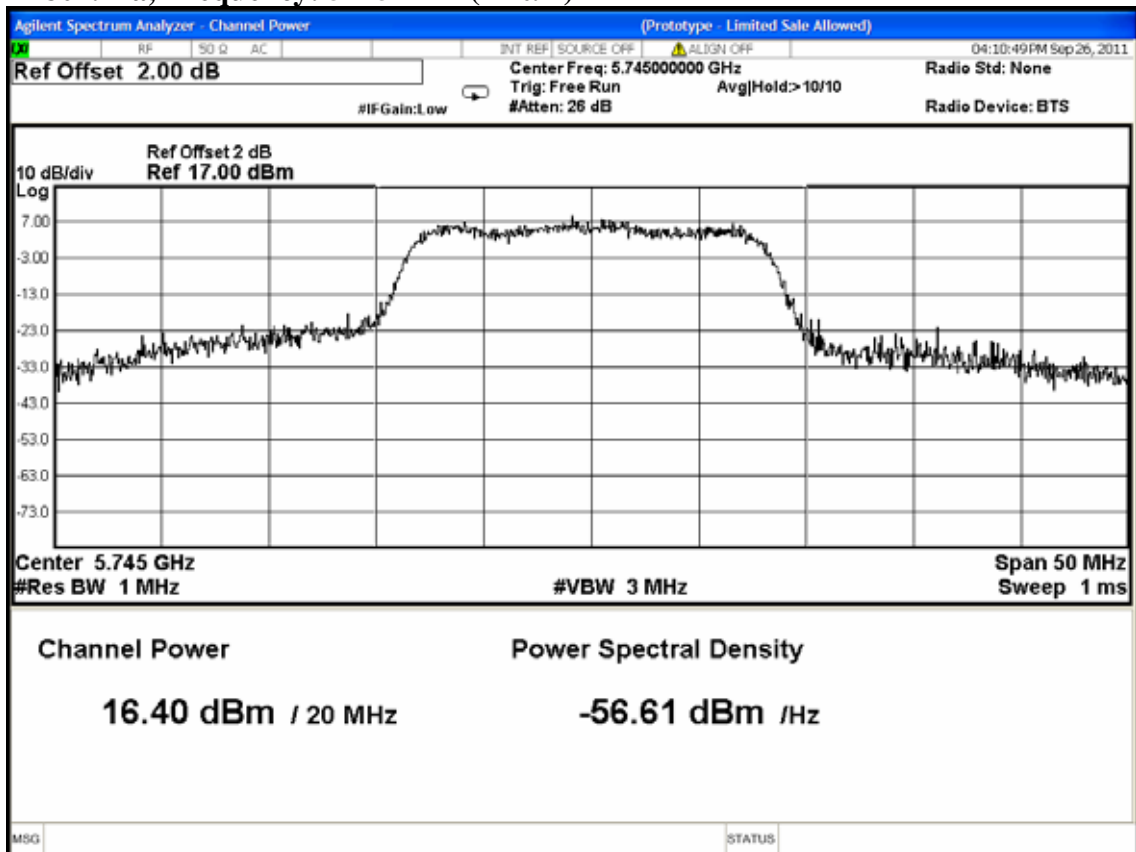
802.11g, Frequency: 2462MHz (Ant. 1)



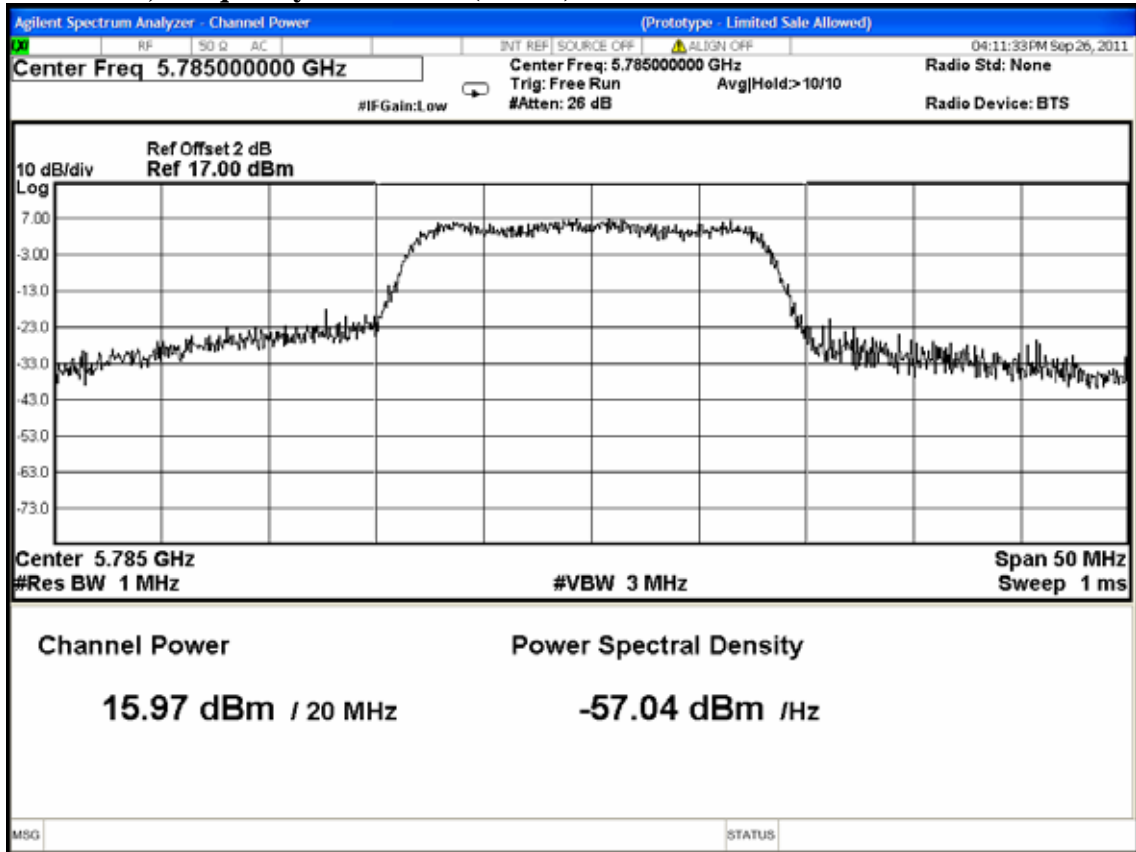
802.11a, Frequency: 5745MHz (Ant. 0)



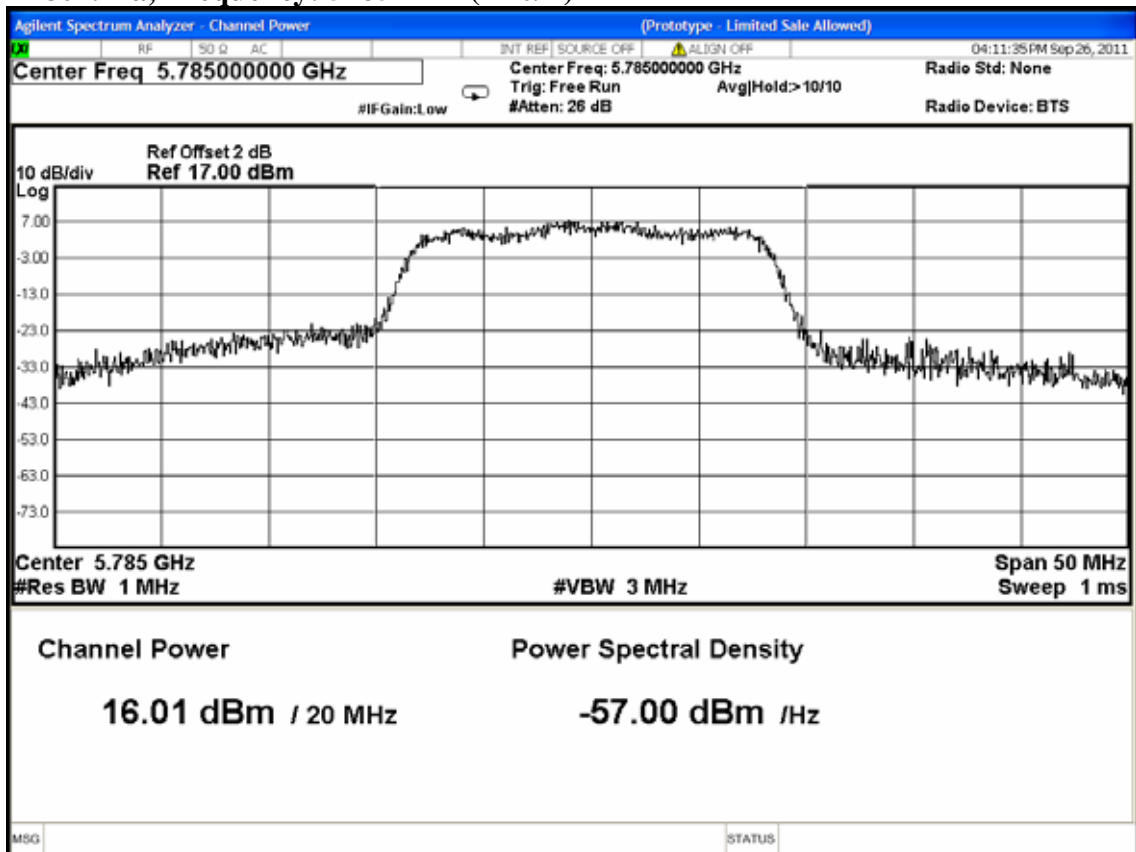
802.11a, Frequency: 5745MHz (Ant. 1)



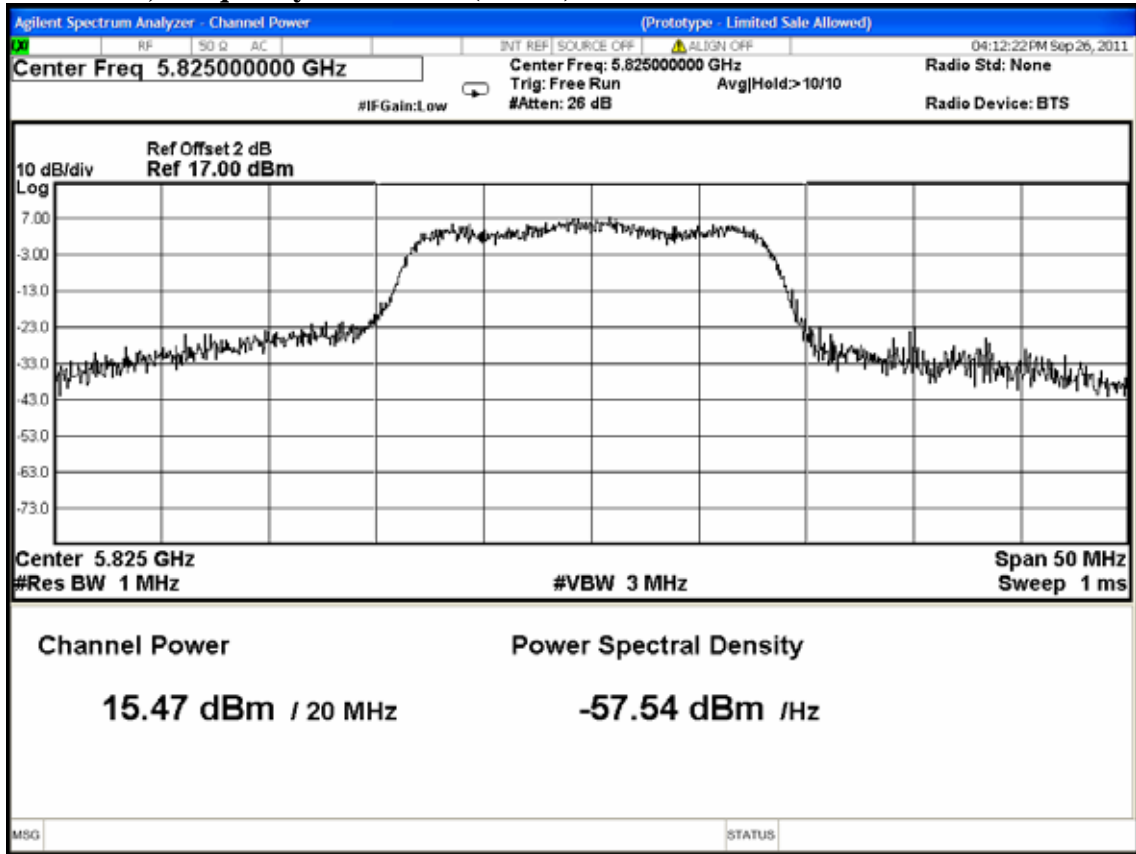
802.11a, Frequency: 5785MHz (Ant. 0)



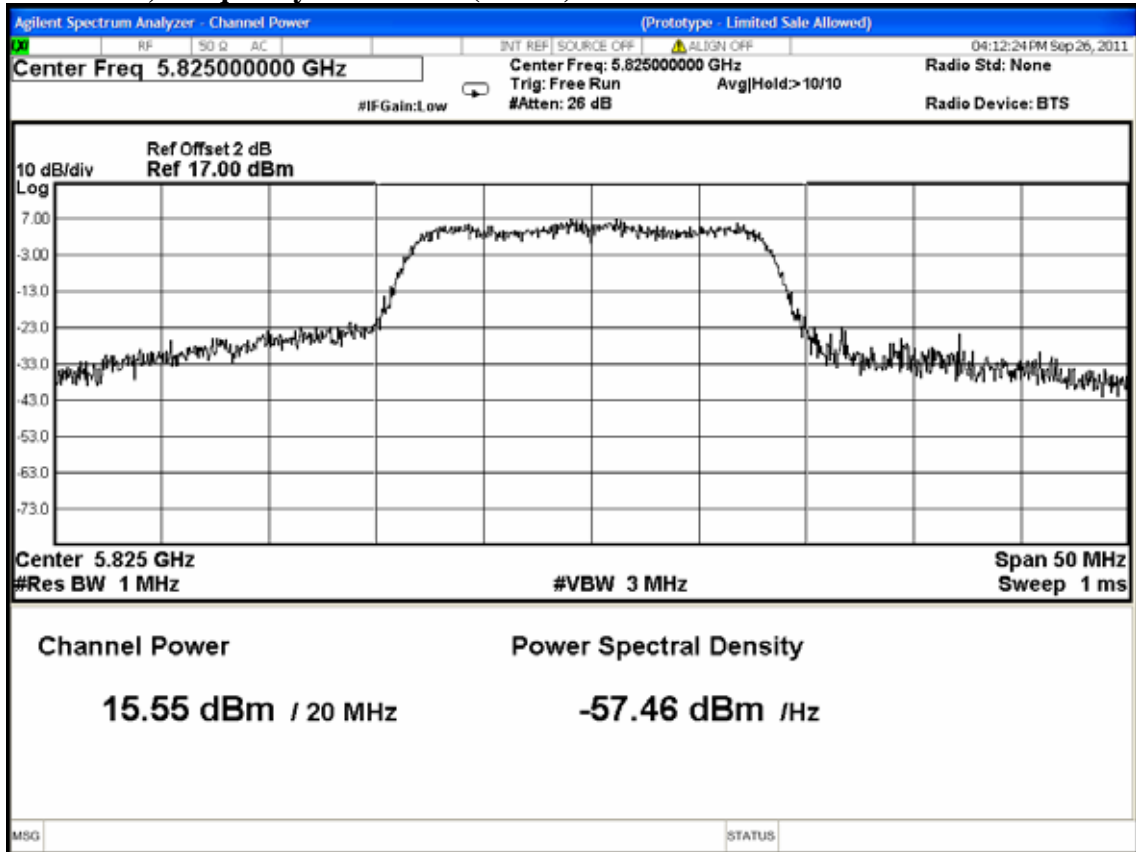
802.11a, Frequency: 5785MHz (Ant. 1)



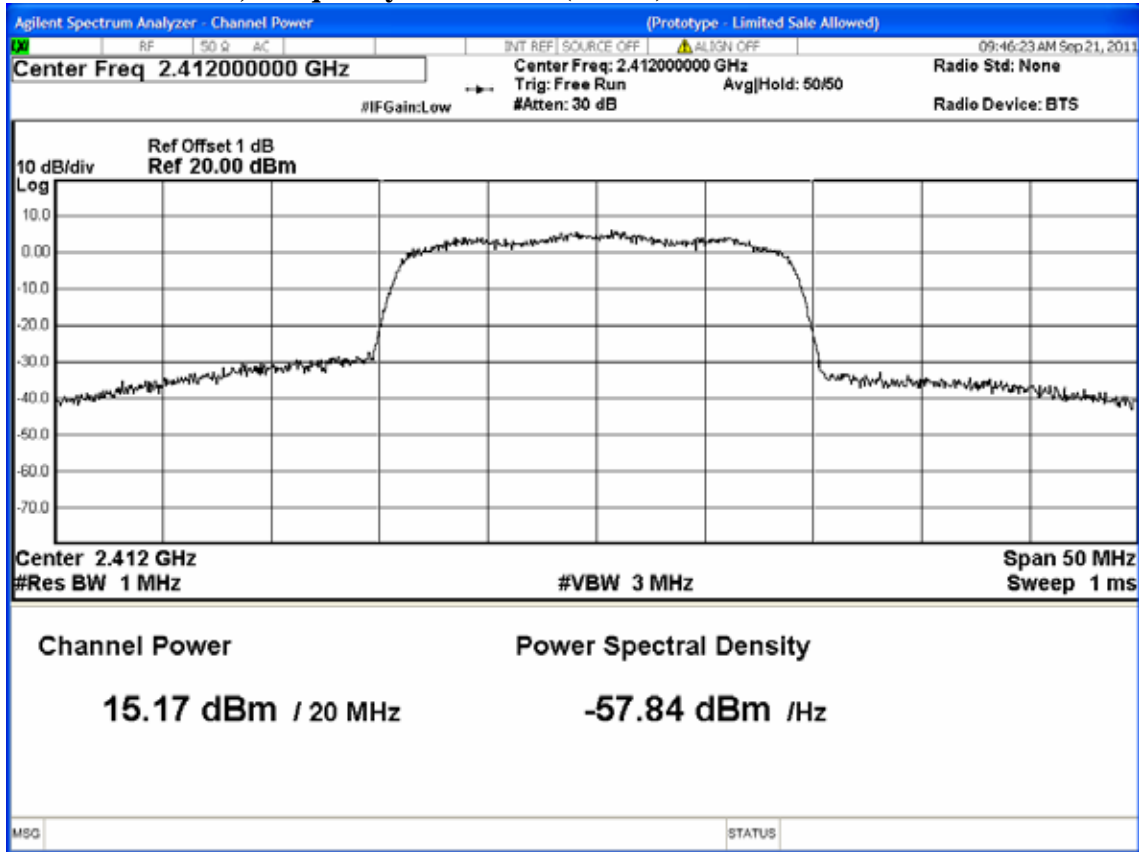
802.11a, Frequency: 5825MHz (Ant. 0)



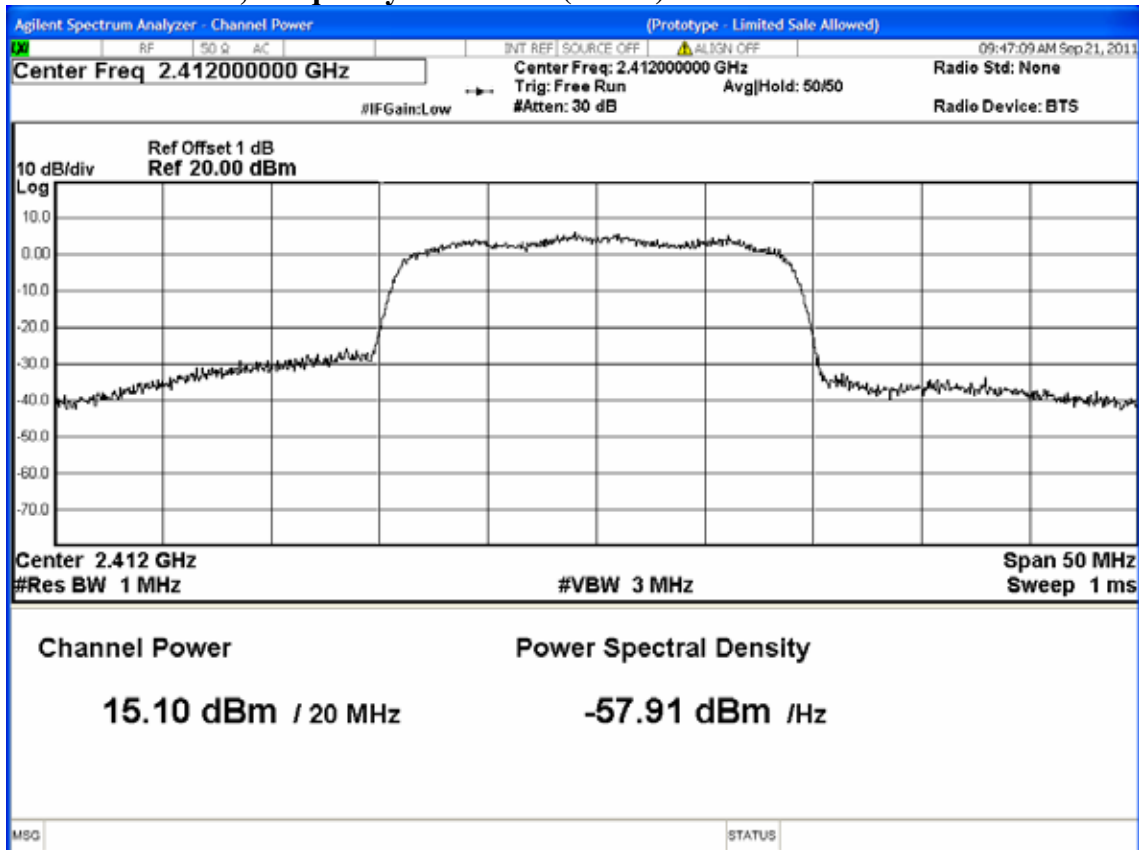
802.11a, Frequency: 5825MHz (Ant. 1)



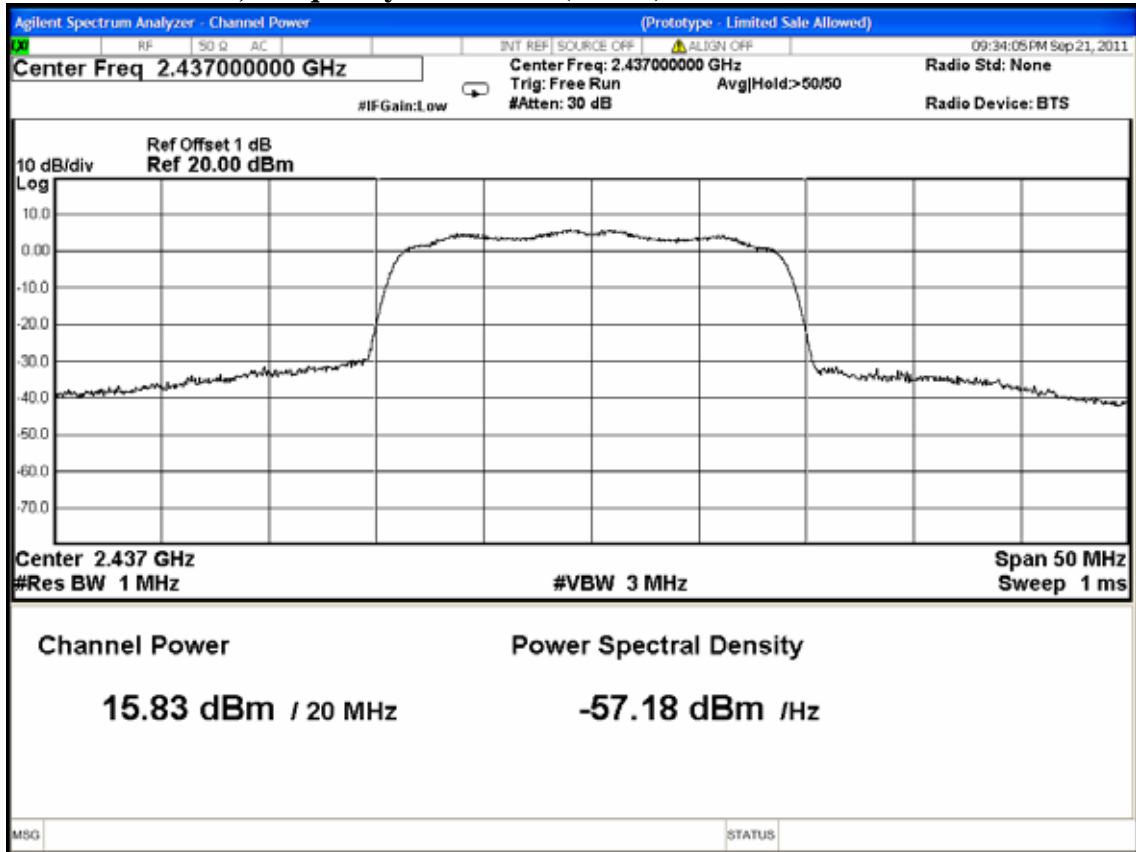
802.11n-HT20, Frequency: 2412MHz (Ant. 0)



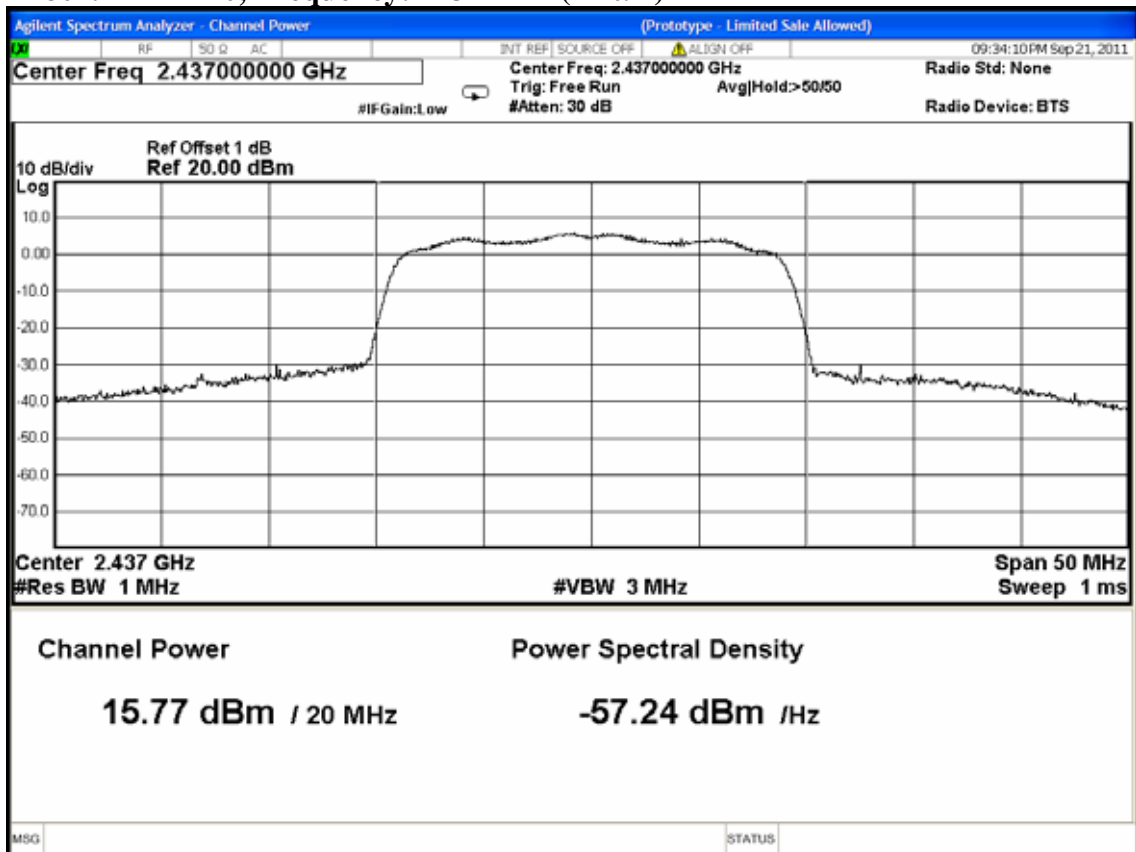
802.11n-HT20, Frequency: 2412MHz (Ant. 1)



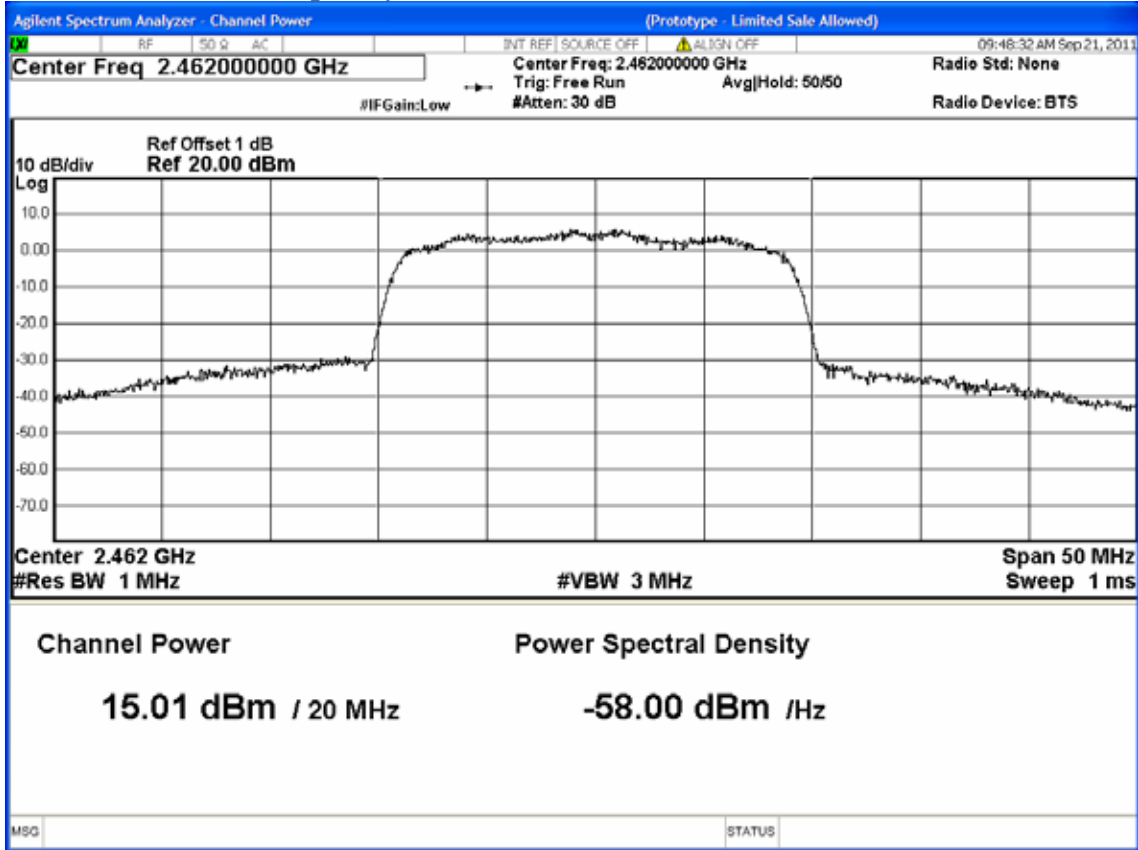
802.11n-HT20, Frequency: 2437MHz (Ant. 0)



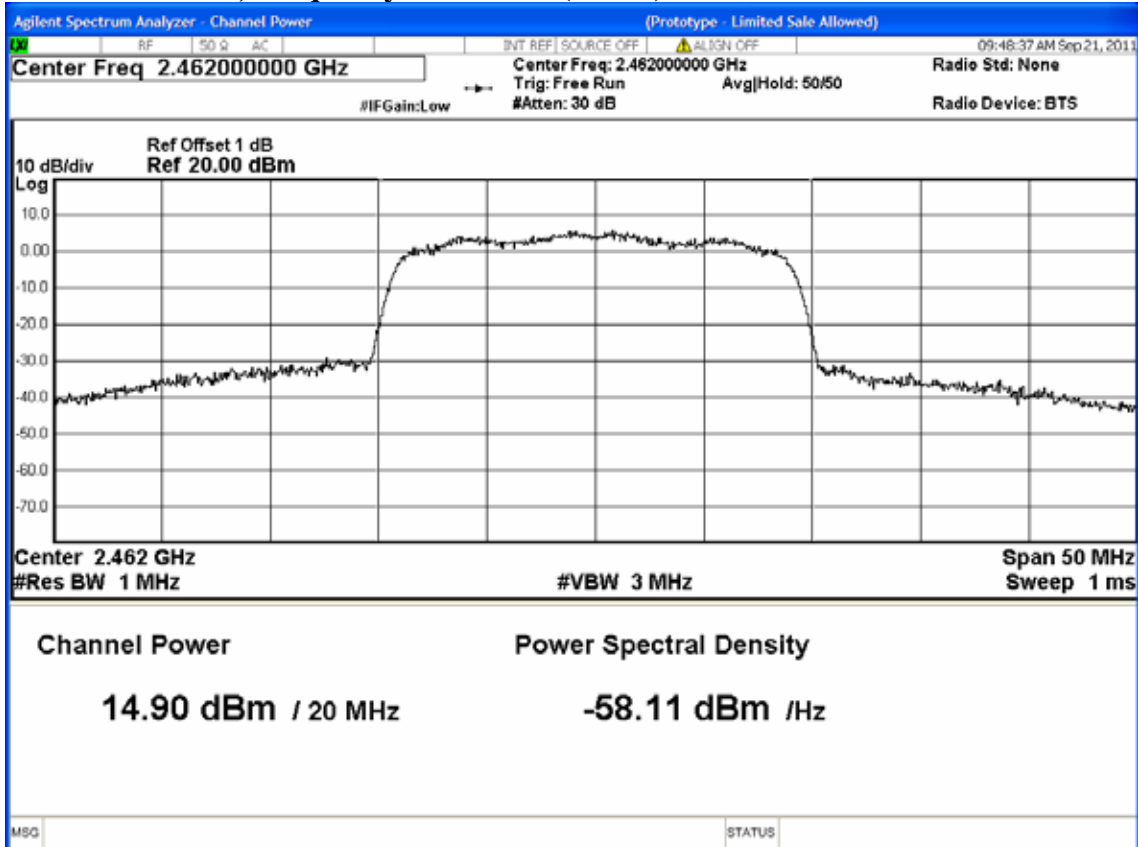
802.11n-HT20, Frequency: 2437MHz (Ant. 1)



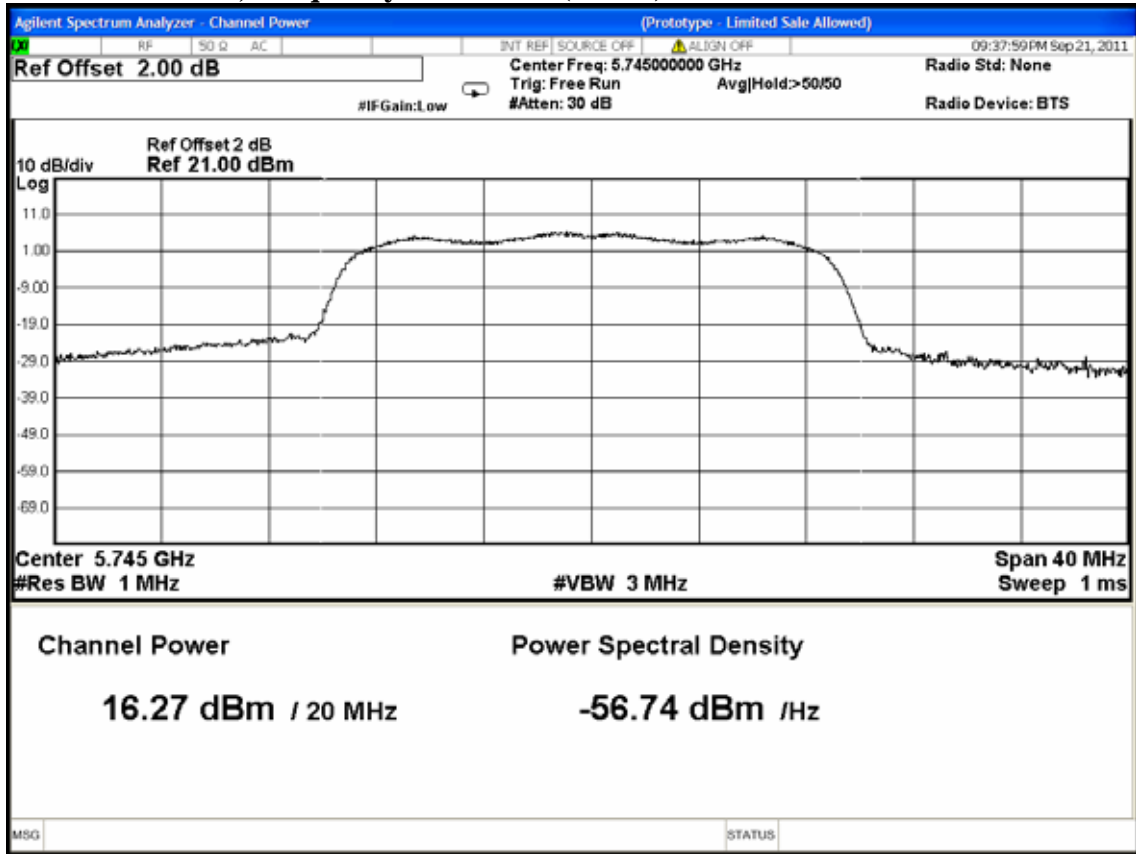
802.11n-HT20, Frequency: 2462MHz (Ant. 0)



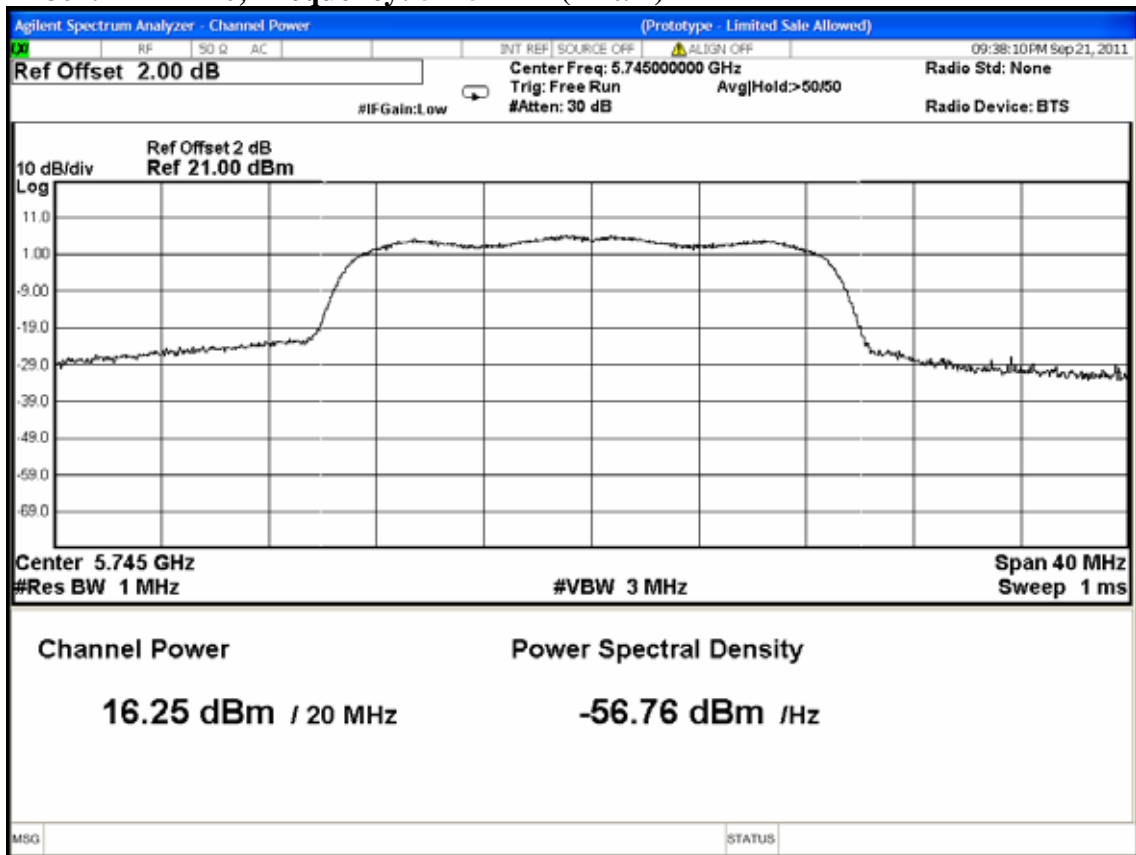
802.11n-HT20, Frequency: 2462MHz (Ant. 1)



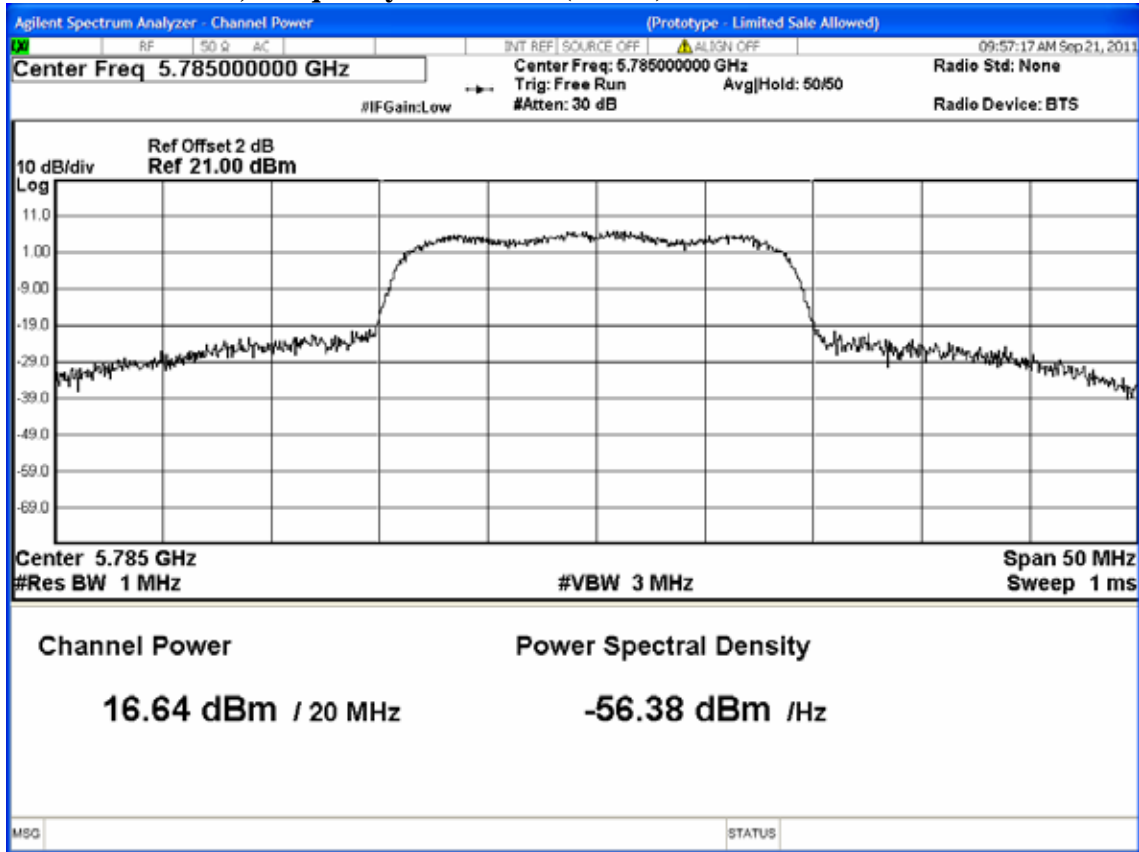
802.11n-HT20, Frequency: 5745MHz (Ant. 0)



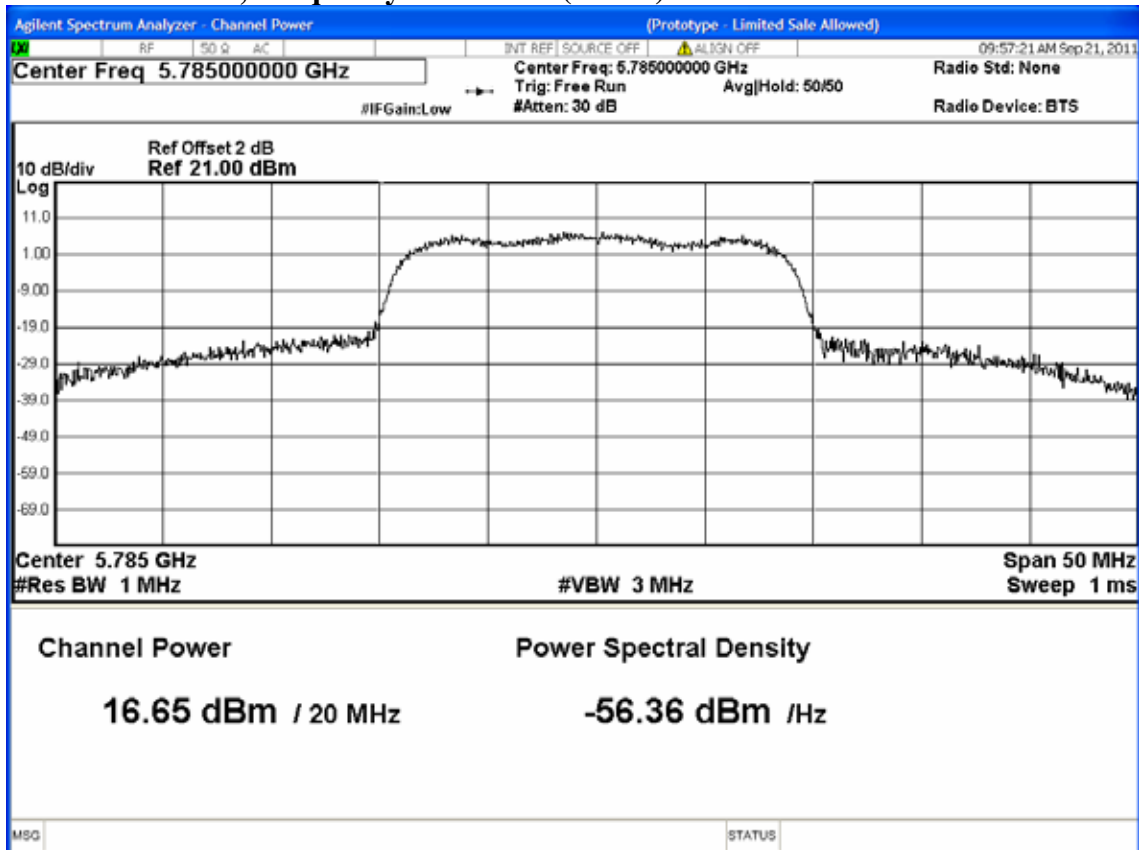
802.11n-HT20, Frequency: 5745MHz (Ant. 1)



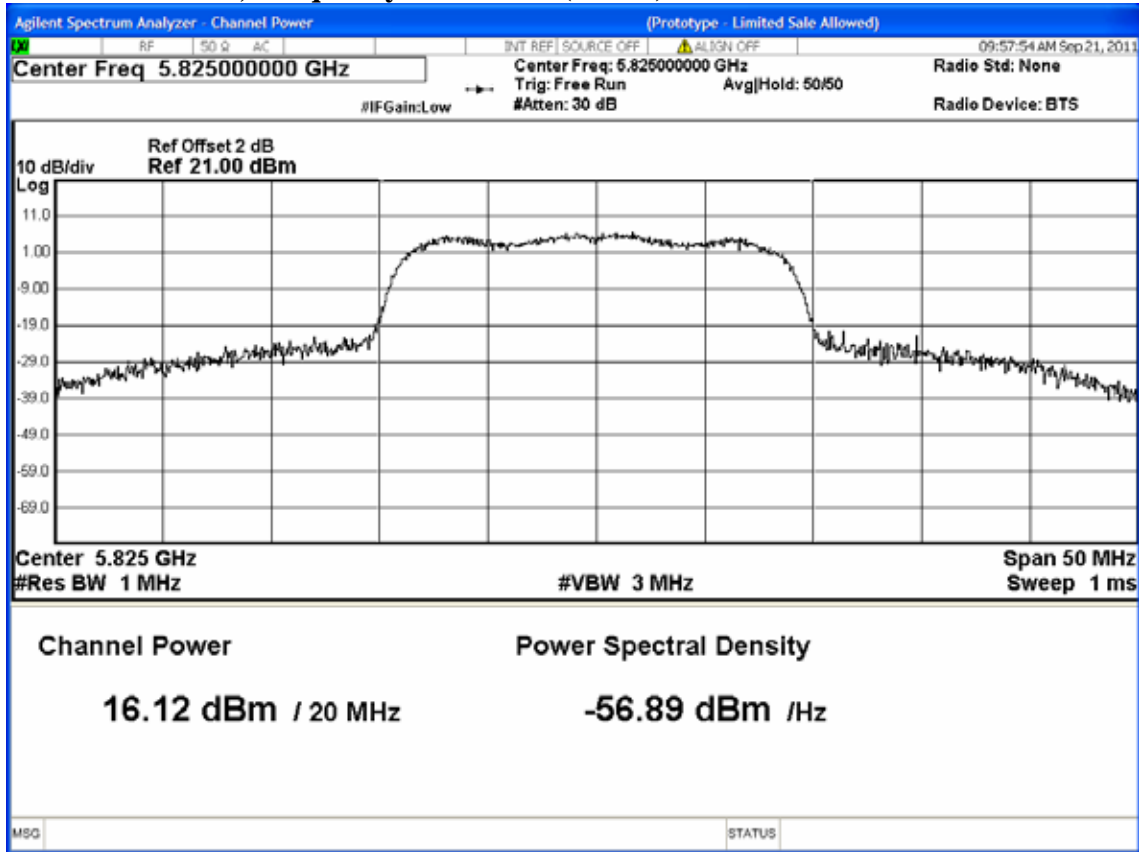
802.11n-HT20, Frequency: 5785MHz (Ant. 0)



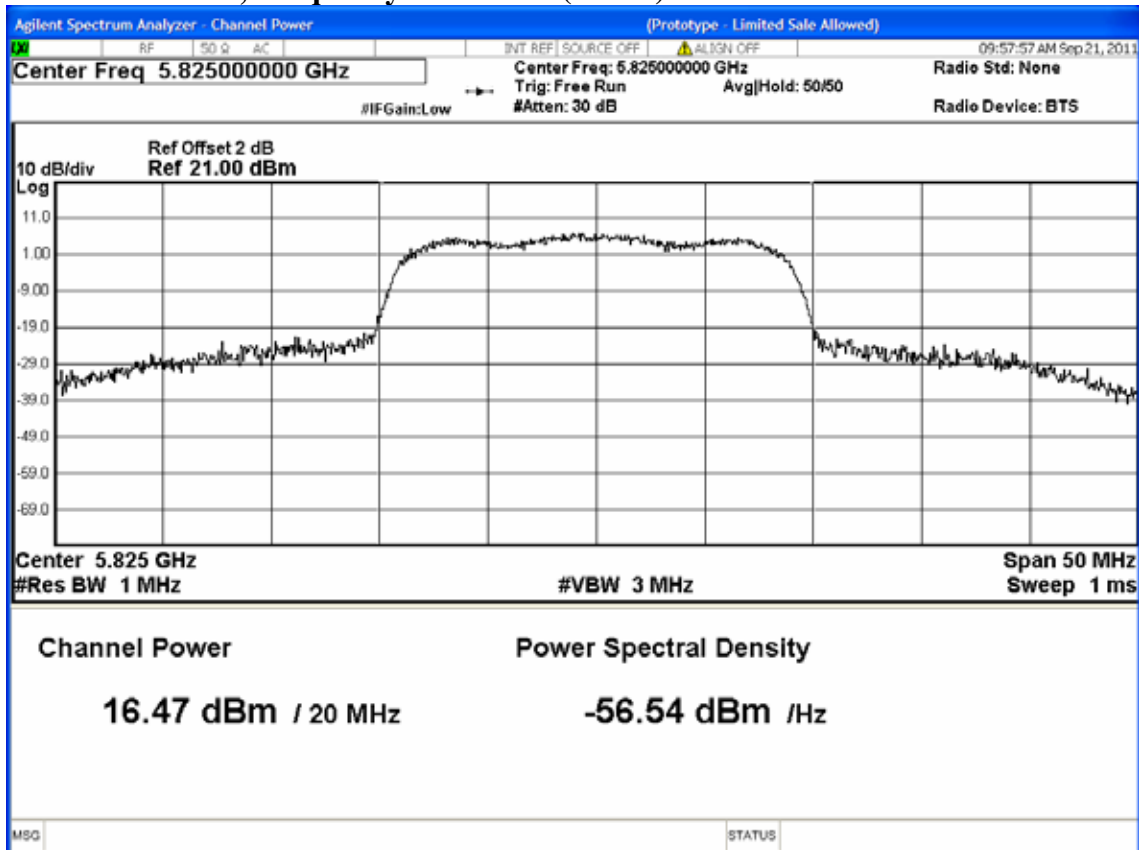
802.11n-HT20, Frequency: 5785MHz (Ant. 1)



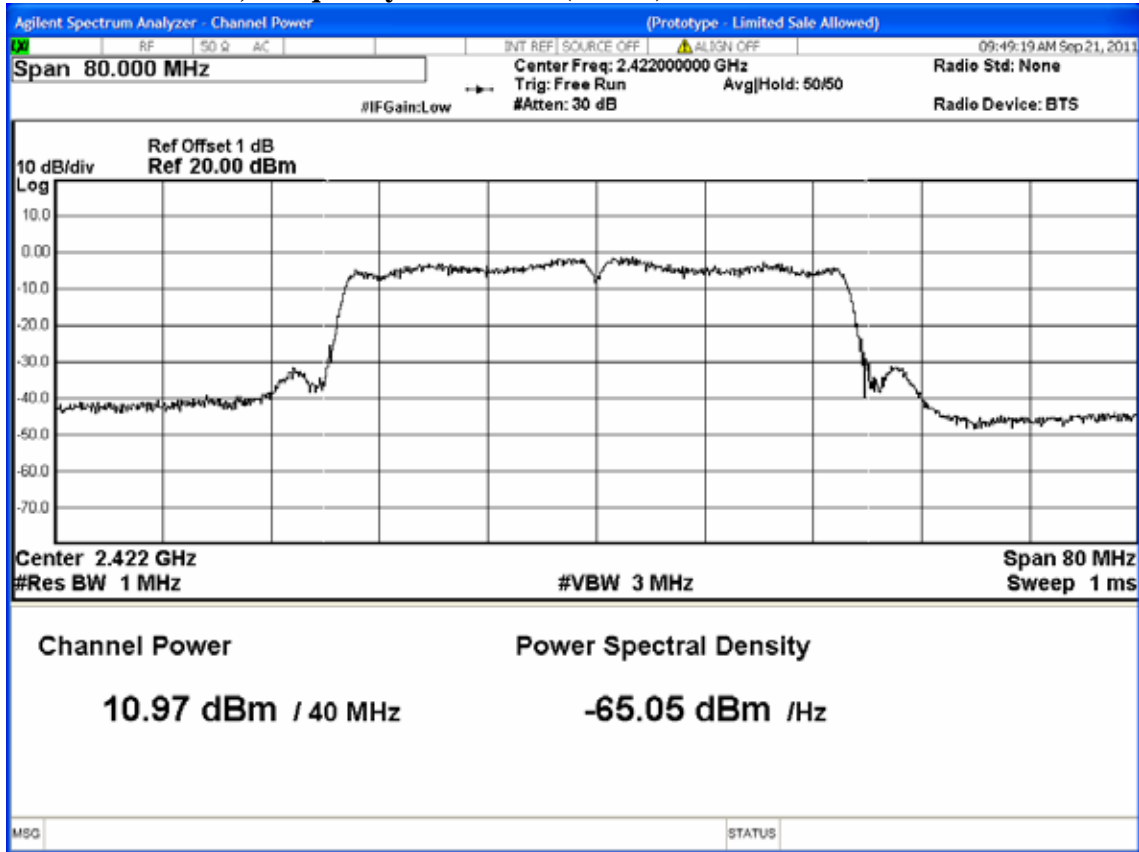
802.11n-HT20, Frequency: 5825MHz (Ant. 0)



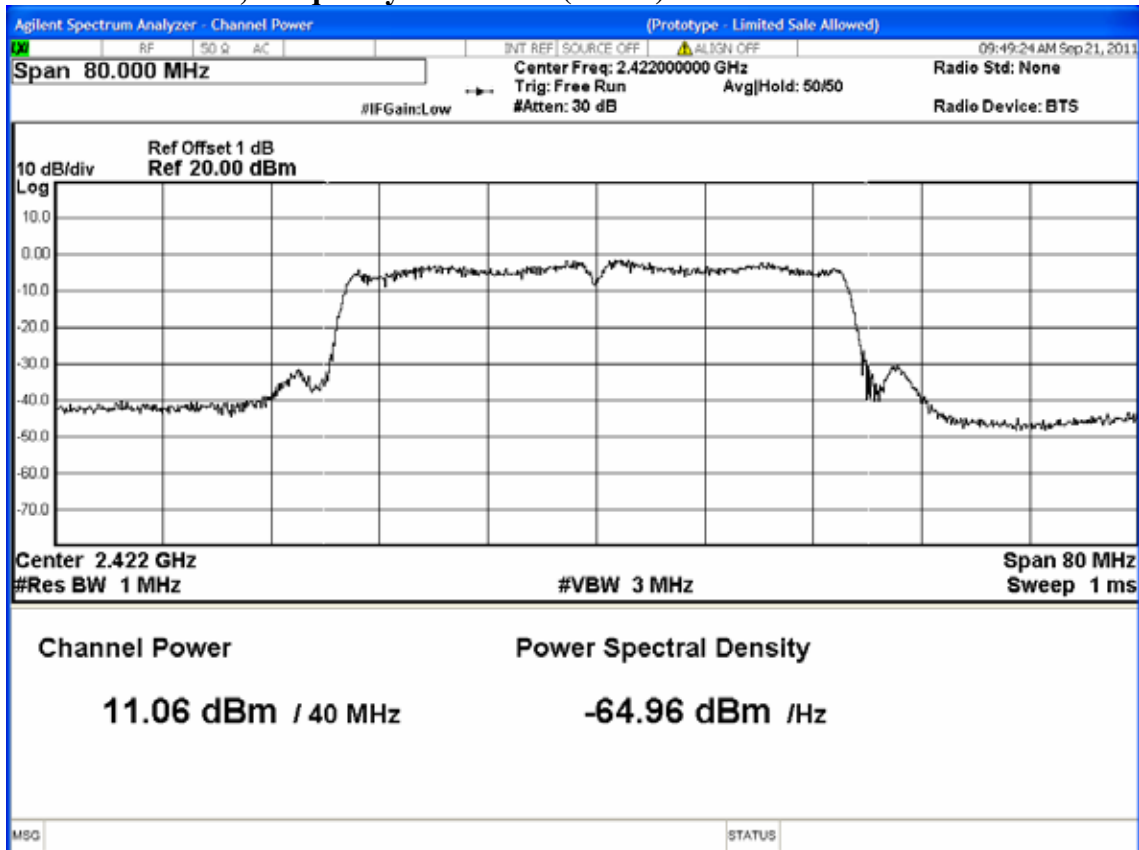
802.11n-HT20, Frequency: 5825MHz (Ant. 1)



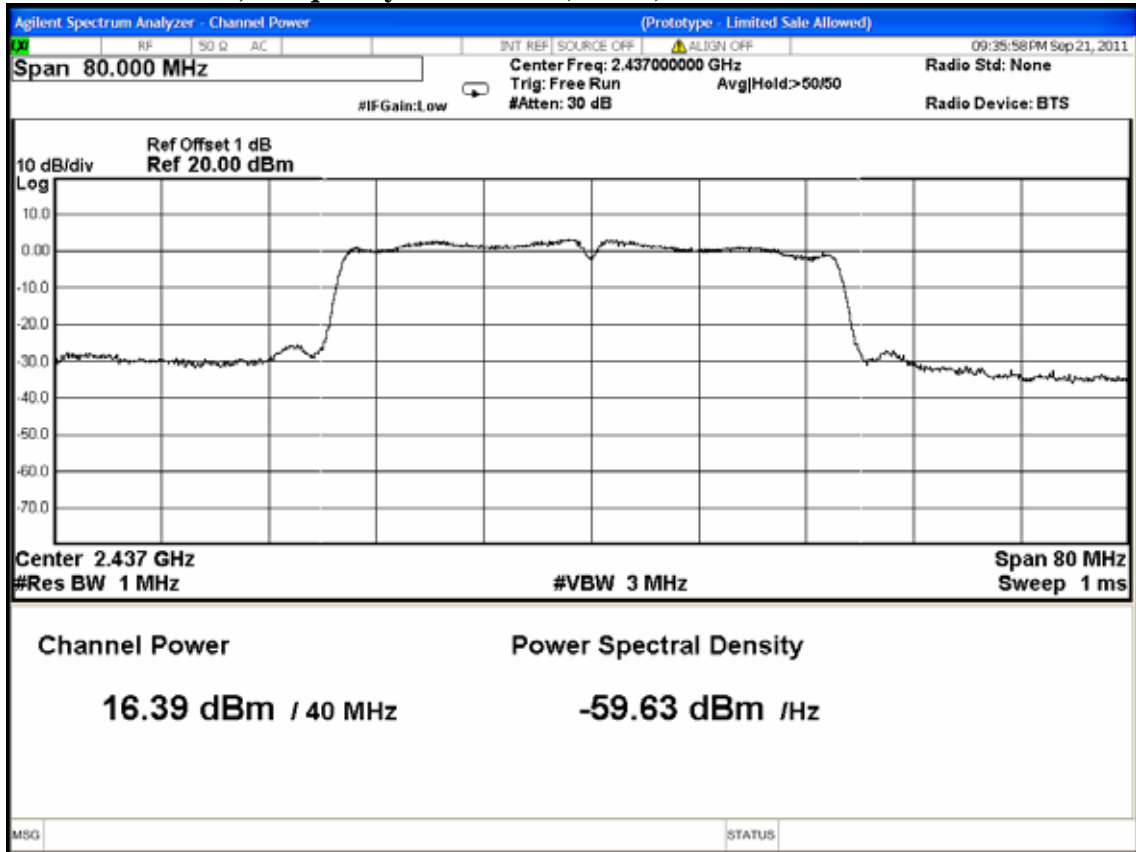
802.11n-HT40, Frequency: 2422MHz (Ant. 0)



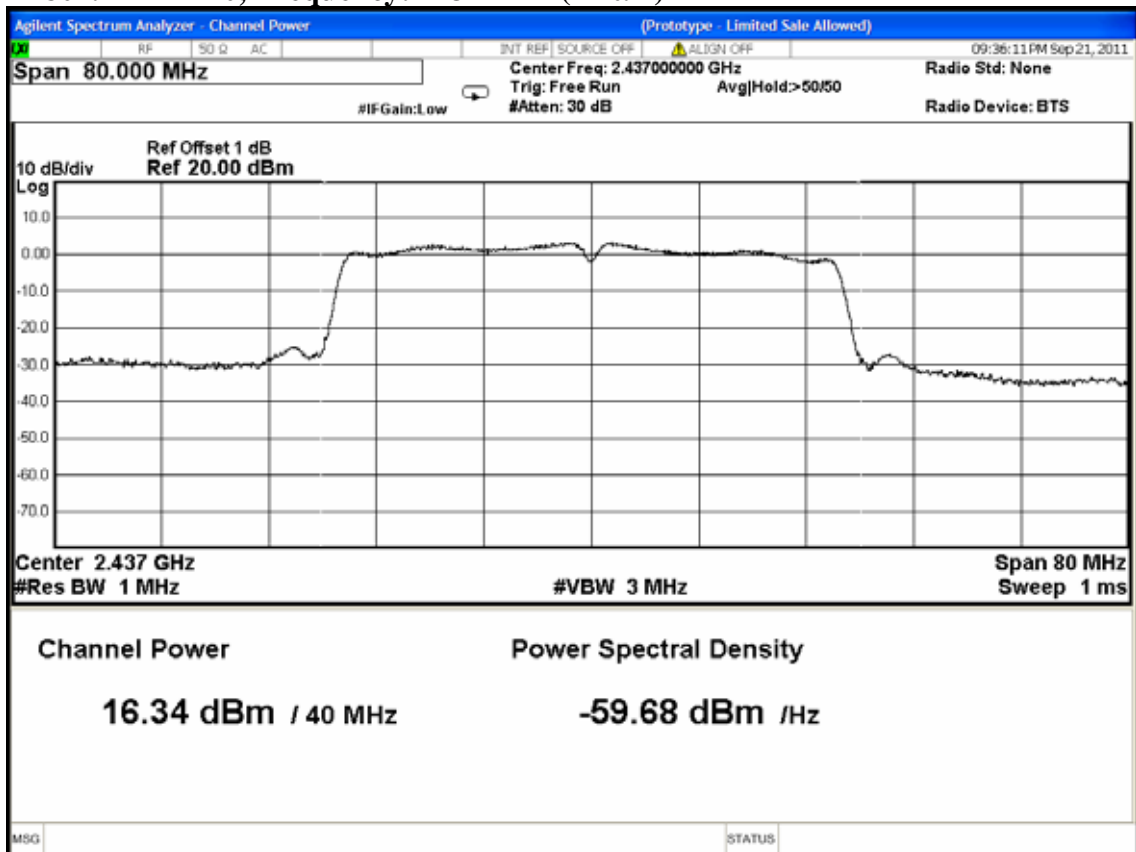
802.11n-HT40, Frequency: 2422MHz (Ant. 1)



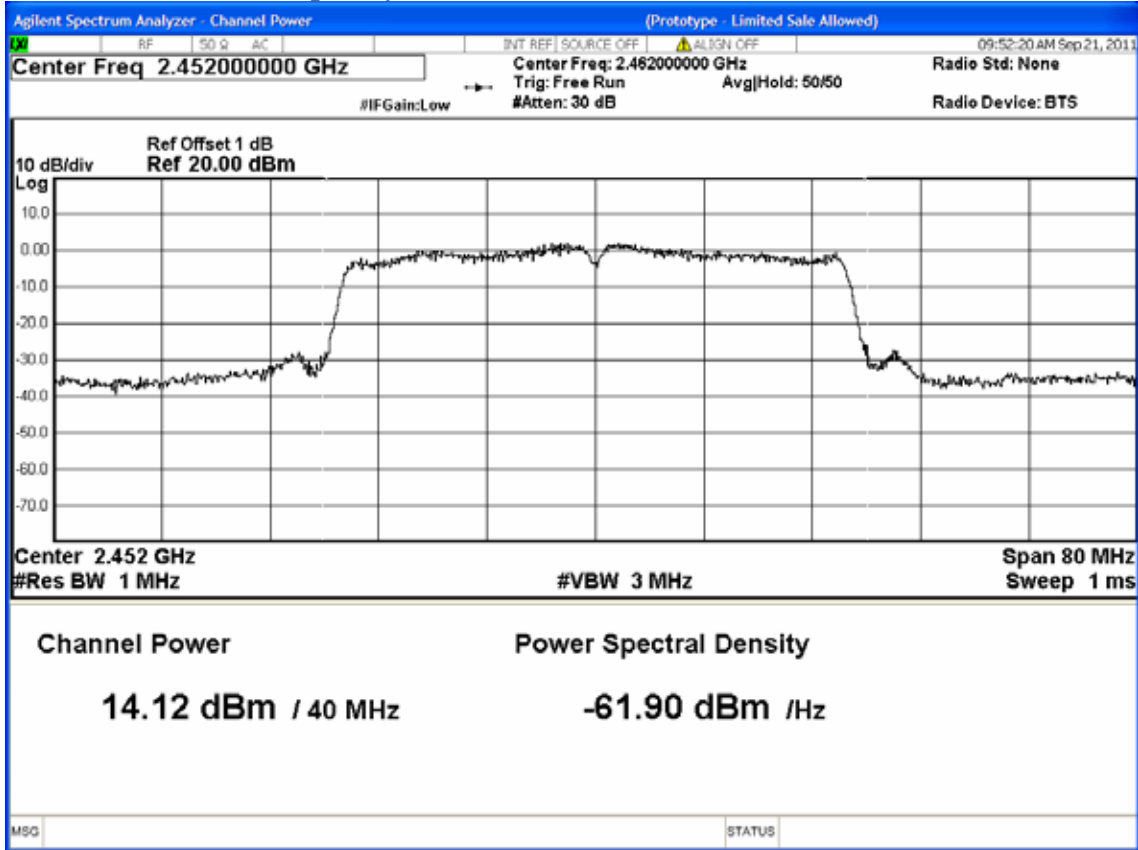
802.11n-HT40, Frequency: 2437MHz (Ant. 0)



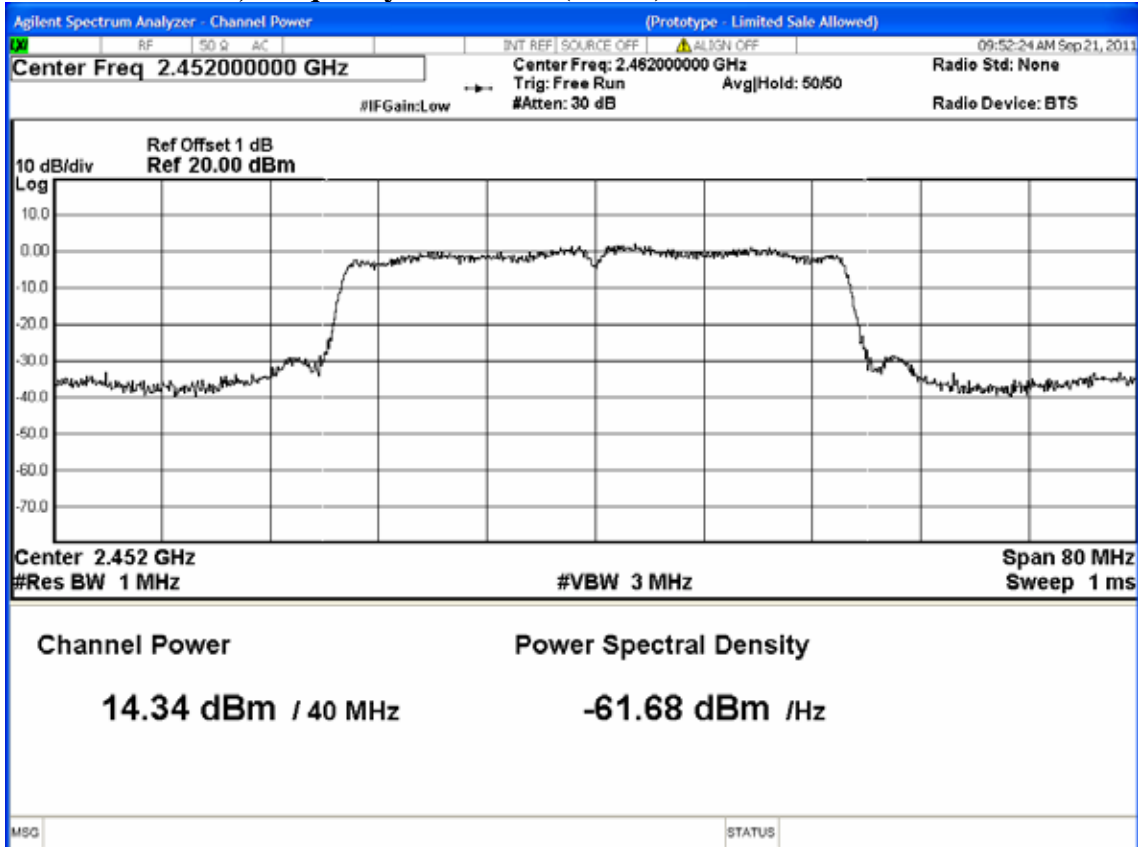
802.11n-HT40, Frequency: 2437MHz (Ant. 1)



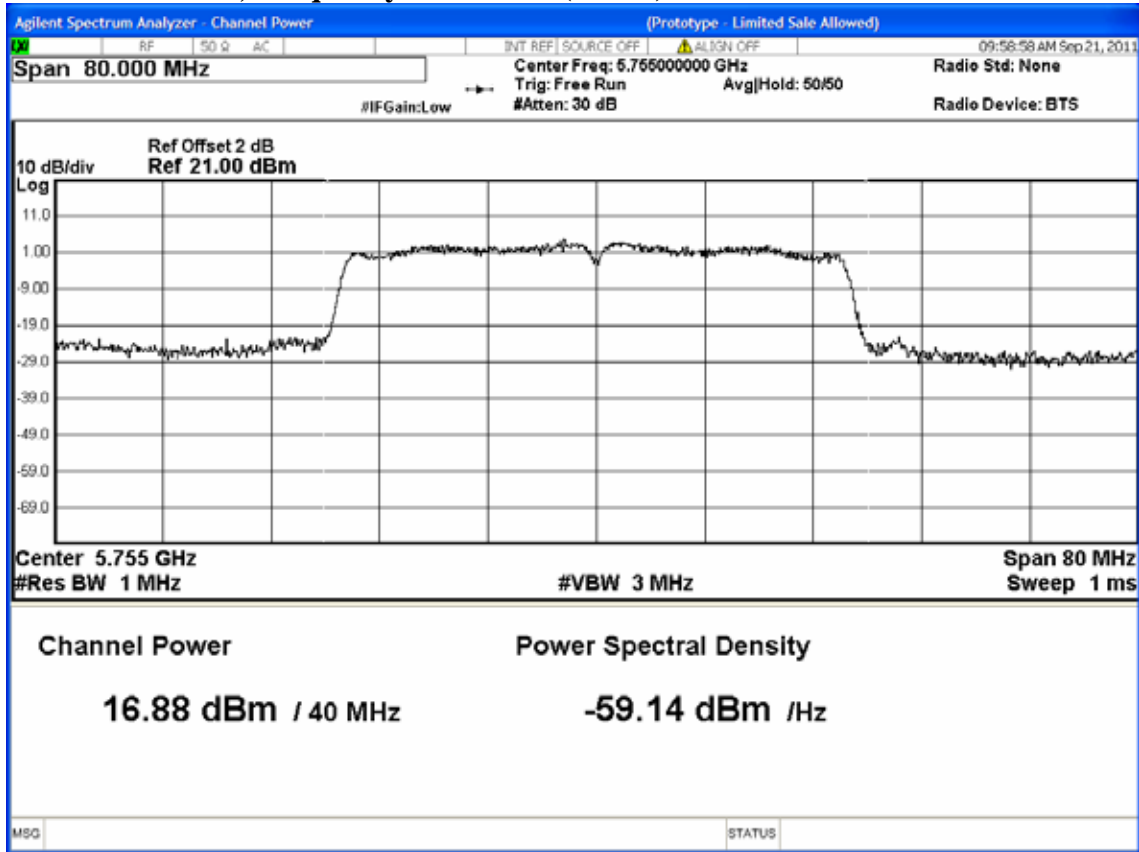
802.11n-HT40, Frequency: 2452MHz (Ant. 0)



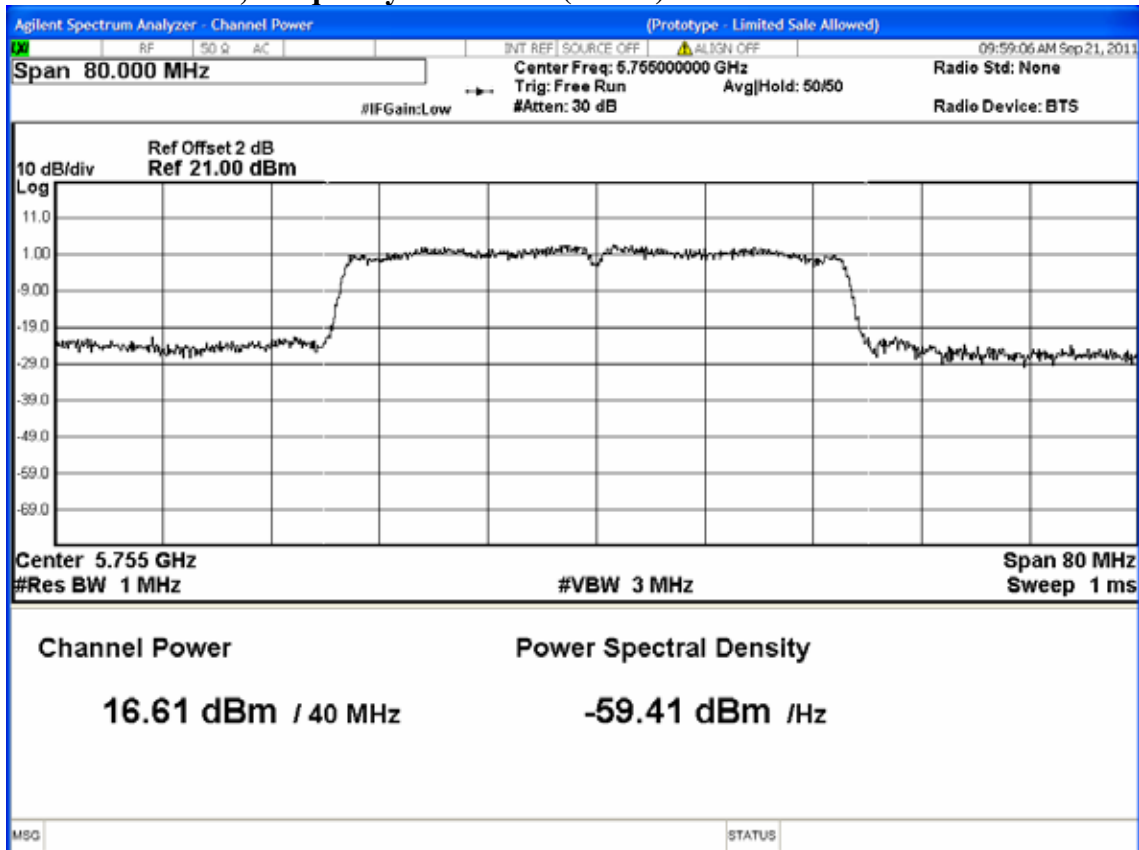
802.11n-HT40, Frequency: 2452MHz (Ant. 1)



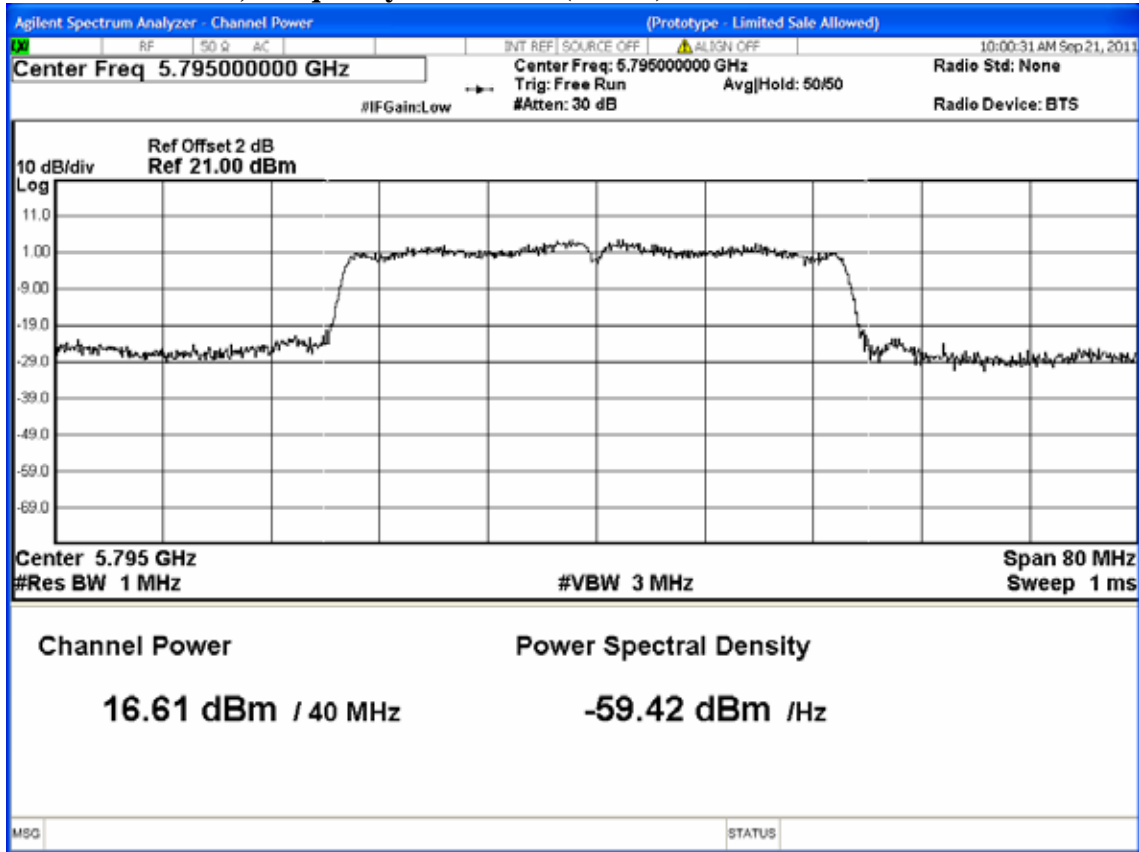
802.11n-HT40, Frequency: 5755MHz (Ant. 0)



802.11n-HT40, Frequency: 5755MHz (Ant. 1)



802.11n-HT40, Frequency: 5795MHz (Ant. 0)



802.11n-HT40, Frequency: 5795MHz (Ant. 1)

