



FCC ID: YZKSMCWGBR14N2

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Edgecore Networks Corporation

802.11n Wireless 4-port Gigabit Broadband Router

Model No.: SMCWGBR14-N2

FCC ID: YZKSMCWGBR14N2

Prepared for : Edgecore Networks Corporation
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Date of Test : Jul.09~17, 2011
Date of Report : Jul.27, 2011

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FCC ID: YZKSMCWGBR14N2

TEST REPORT CERTIFICATION

Applicant : Edgecore Networks Corporation
 Manufacturer : Edgecore Networks Corporation
 EUT Description : 802.11n Wireless 4-port Gigabit Broadband Router
 FCC ID : YZKSMCWGBR14N2
 (A) MODEL NO. : SMCWGBR14-N2
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 12V
 (D) TEST VOLTAGE : DC 12V From Adapter Input AC 120V/60Hz

Tested for comply with:
FCC Rules and Regulations Part 15 Subpart C: 2008

Test procedure used:
ANSI C63.10:2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Jul.09~ 17, 2011 Report of date: Jul.27, 2011

Prepared by : Cerry He Reviewer by : Sunny Lu
 Cerry He/ Assistant Sunny Lu/ Senior Assistant



Approved & Authorized Signer : Ken Lu
Ken Lu / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10: 2009	PASS
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10: 2009	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Conducted spurious emissions	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name	:	802.11n Wireless 4-port Gigabit Broadband Router
Model Number	:	SMCWGBR14-N2
FCC ID	:	YZKSMCWGBR14N2
Operation Frequency	:	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE802.11n HT20: 2412MHz—2462MHz IEEE802.11n HT40: 2422MHz—2452MHz
Channel Number	:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7Channels
Modulation Technology	:	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
Output Power (maximum eirp)	:	IEEE 802.11b: 13.96dBm IEEE 802.11g: 13.04dBm IEEE 802.11n HT20: 16.93Bm IEEE 802.11n HT40: 14.80dBm
Antenna Assembly Gain	:	MIMO 3X3 Dipole antenna, 3dBi gain
Applicant	:	Edgecore Networks Corporation No.1 Creation Rd.3, Hsinchu Science Park, Hsinchu, 30077, Taiwan, R.O.C
Manufacturer	:	Edgecore Networks Corporation No.1 Creation Rd.3, Hsinchu Science Park, Hsinchu, 30077, Taiwan, R.O.C
Power Adapter	:	Manufacturer: LEADER ELECTRONICS INC. M/N: MU18-2120150-A1 Cable: Unshielded, Undetachable, 1.5m
Date of Test	:	Jul.09~17, 2011
Date of Receipt	:	Jul.09, 2011
Sample Type	:	Prototype production

2.2. Test Information

A special test software was used to control EUT work in Continuous TX mode(100% duty cycle), and select test channel, wireless mode and data rate.

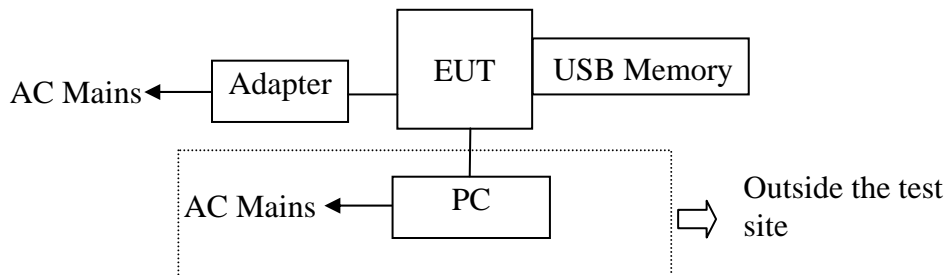
Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	11	Low :CH1	2412
	11	Middle: CH6	2437
	11	High: CH11	2462
IEEE 802.11g	54	Low :CH1	2412
	54	Middle: CH6	2437
	54	High: CH11	2462
IEEE 802.11n HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11n HT40	13.5	Low :CH1	2422
	13.5	Middle: CH4	2437
	13.5	High: CH7	2452

Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.
 Note2: This device use MIMO 3X3 antennas ,all the radiated spurious emissions and band edge test were performed with two antennas transmit synchronous.

2.3. Tested Supporting System Details

	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1	Personal Computer	Test PC M	DELL	Studio 540	224XK2X	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID:R33002
		Power Cord: Unshielded, Detachable, 1.8m Display Card: HD3450 (DVI+VGA+HDMI)				
2	USB Memory	Manufacturer: SONY, M/N: BNP-01				

2.4. Block diagram of connection between the EUT and simulators



PC run test software to control EUT work in Continuous TX mode

(EUT: 802.11n Wireless 4-port Gigabit Broadband Router)

2.5. Test Facility

Site Description

- Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen
Science & Industrial Park, Nantou,
Shenzhen, Guangdong, China

- 3m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 90454
Valid Date: Mar.31, 2012

- 3m & 10m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 794232
Valid Date: Dec.30, 2012

- EMC Lab. : Certificated by Industry Canada
Registration Number: IC 5183A-1
Valid Date: Jul. 02, 2011

- : Accredited by DATech, German
Registration Number: DAT-P-091/99-01
Valid Date: Feb.01, 2014

- Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2012

2.6. Measurement Uncertainty (95% confidence levels, k=2)

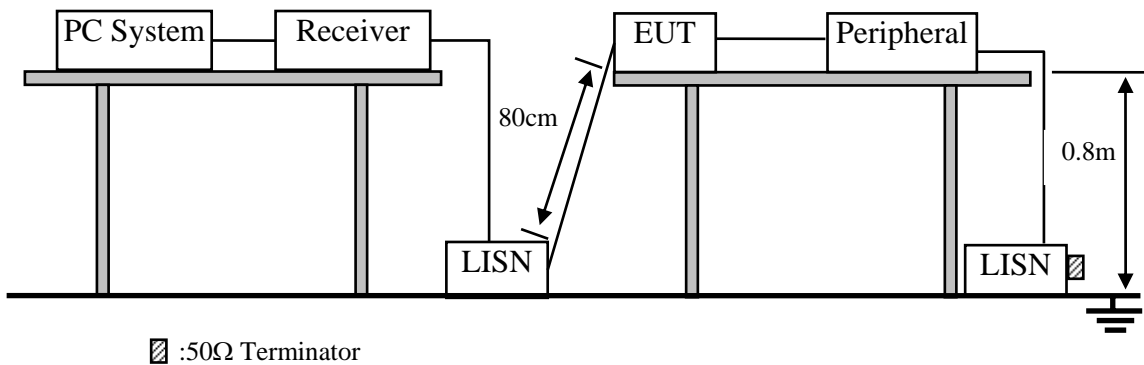
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.2 dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.6 dB(30~200MHz, Polarize: H)
	3.7 dB(30~200MHz, Polarize: V)
	4.0 dB(200M~1GHz, Polarize: H)
	3.7 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57dB
Uncertainty for Conduction Spurious emission test	2.00 dB
Uncertainty for Output power test	0.73 dB
Uncertainty for Power density test	2.00 dB
Uncertainty for Frequency range test	7×10^{-8}
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Nov.05, 10	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Nov.05, 11	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 11	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 11	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 11	1 Year
6.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 11	1Year
7.	Coaxial Switch	Anritsu	MP59B	M55367	May.08, 11	1 Year
8.	Passive Probe	Rohde & Schwarz	ESH2-Z3	299.7810.52	May.08, 11	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 11	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

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

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1.802.11n Wireless 4-port Gigabit Broadband Router (EUT)

Model Number : SMCWGBR14-N2
Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.3.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 2.4.

3.5.2. Turned on the power of all equipment.

3.5.3. Notebook run test software to control EUT work in Tx mode.

3.6. Test Procedure

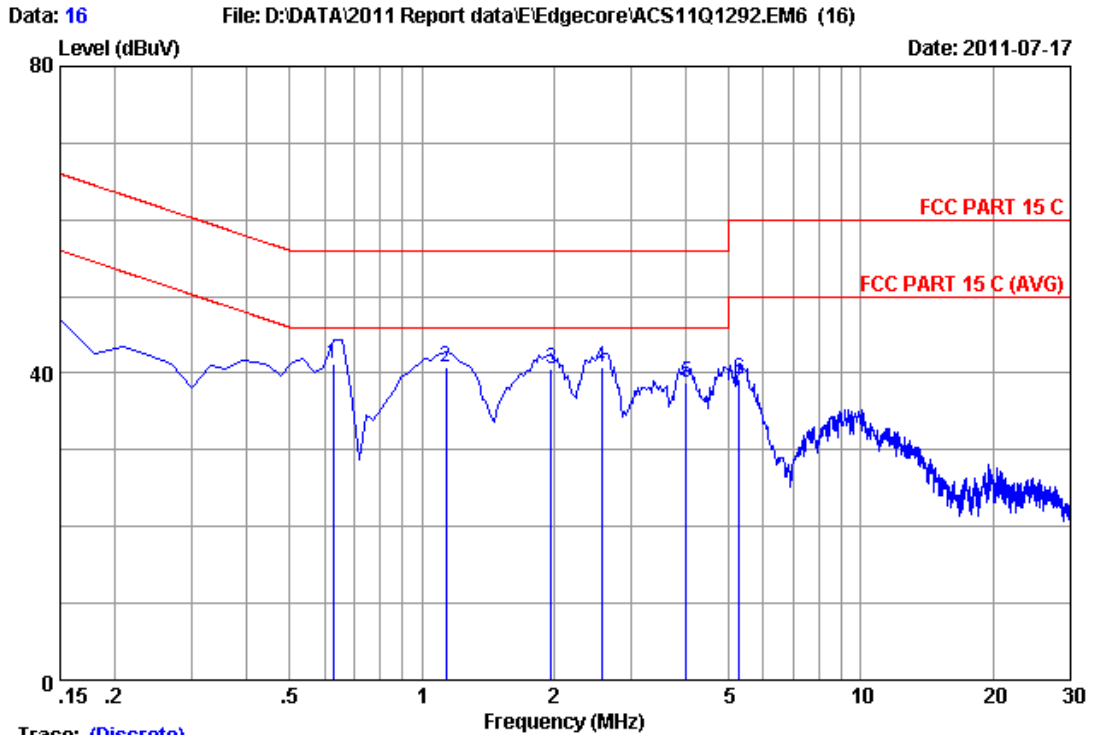
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

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

3.7. Power Line Conducted Emission Test Results

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

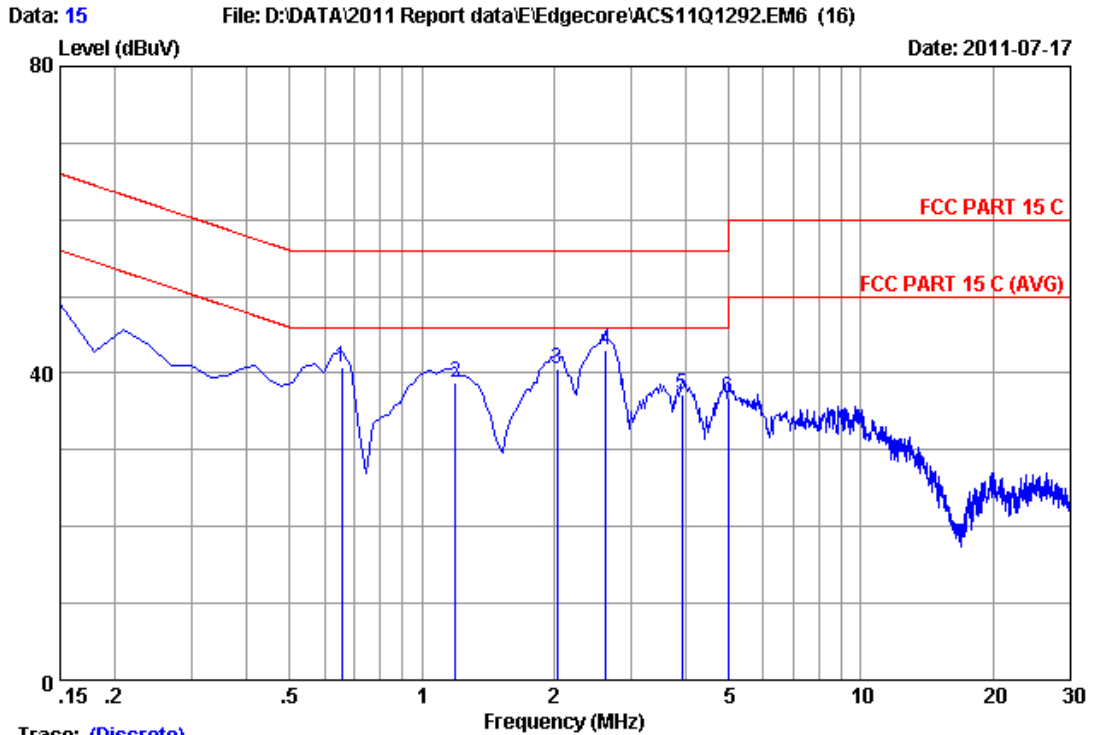


Trace: (Discrete)

Site no :1#conduction Data No :16
 Dis./Ant. : ** 2011 ESH2-25 LINE
 Limit : FCC PART 15 C
 Env./Ins. : 29.5°C/55% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : Tx Mode
 SMCWGBR14-N2

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.62760	0.19	9.98	31.17	41.34	56.00	14.66	QP
2	1.135	0.24	9.98	30.47	40.69	56.00	15.31	QP
3	1.971	0.31	9.96	30.19	40.46	56.00	15.54	QP
4	2.568	0.32	9.95	30.52	40.79	56.00	15.21	QP
5	4.001	0.35	9.94	28.38	38.67	56.00	17.33	QP
6	5.284	0.38	9.93	28.96	39.27	60.00	20.73	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+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.



Trace: (Discrete)

Site no :1#conduction Data No :15
 Dis./Ant. :** 2011 ESH2-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :29.5*C/55% Engineer :Leo-Li
 EUT :802.11n Wireless 4-port Gigabit Broadband Router
 Power Rating :DC 12V From Adapter Input AC 120V/60Hz
 Test Mode :Tx Mode
 SMCWGBR14-N2

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.65745	0.23	9.97	30.62	40.82	56.00	15.18	QP
2	1.195	0.25	9.97	28.60	38.82	56.00	17.18	QP
3	2.031	0.27	9.96	30.26	40.49	56.00	15.51	QP
4	2.628	0.28	9.95	32.86	43.09	56.00	12.91	QP
5	3.911	0.31	9.94	26.96	37.21	56.00	18.79	QP
6	4.986	0.33	9.93	26.50	36.76	56.00	19.24	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+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.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

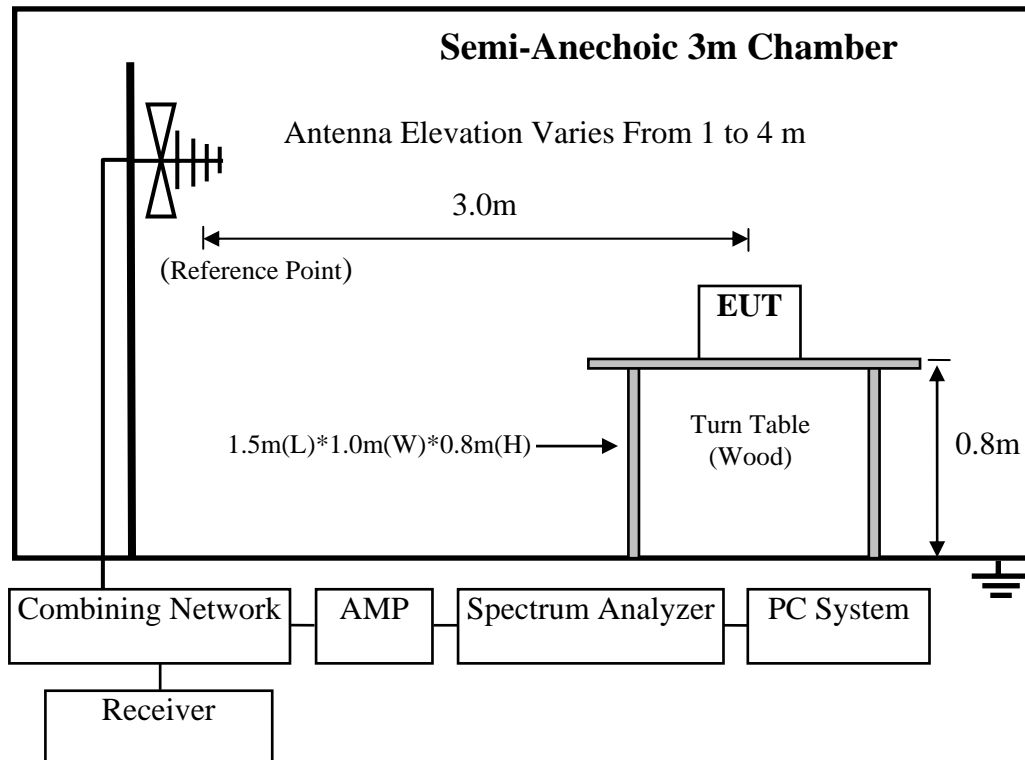
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.06,10	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 11	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 11	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 11	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Oct.26, 10	1 Year
6	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 11	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 11	1 Year

Frequency rang: above 1000MHz

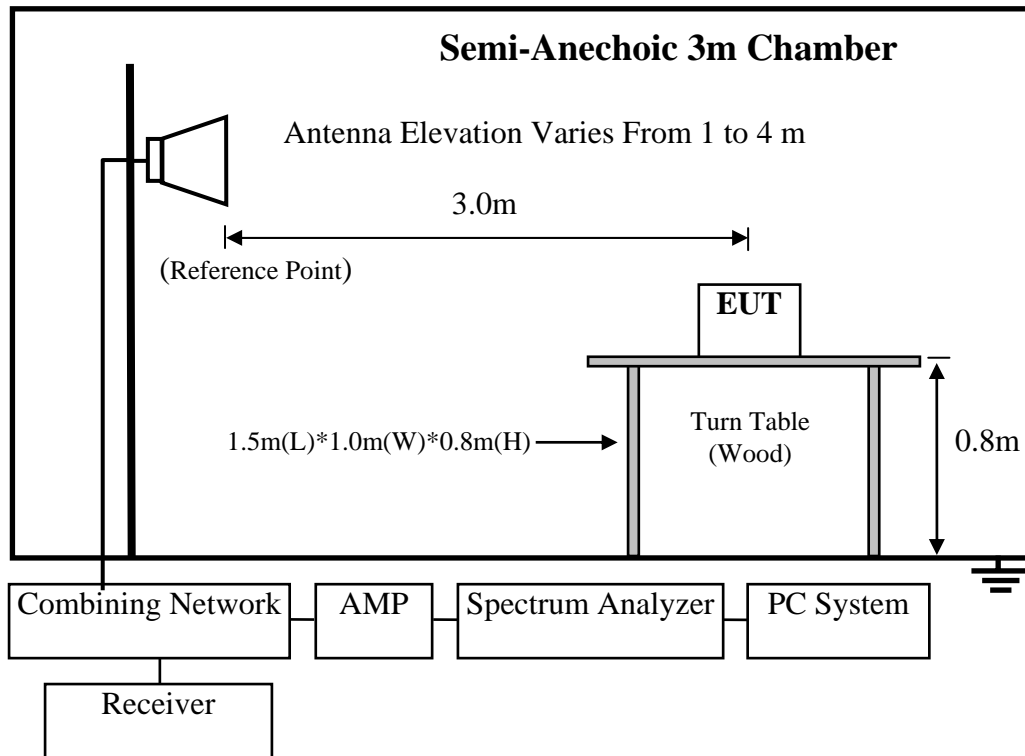
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 11	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May.25, 11	1.5 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 11	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX102	28622/2	May.08, 11	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	29091/2	May.08, 11	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3. Radiated Emission Limit

4.3.1.15.209 limits

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

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

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

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

4.3.2.15.205 Restricted bands of operation

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

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

4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

4.5.Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.6. except the test set up replaced by Section 4.2.

4.6.Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

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

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7. Radiated Emission Test Results

PASS.

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

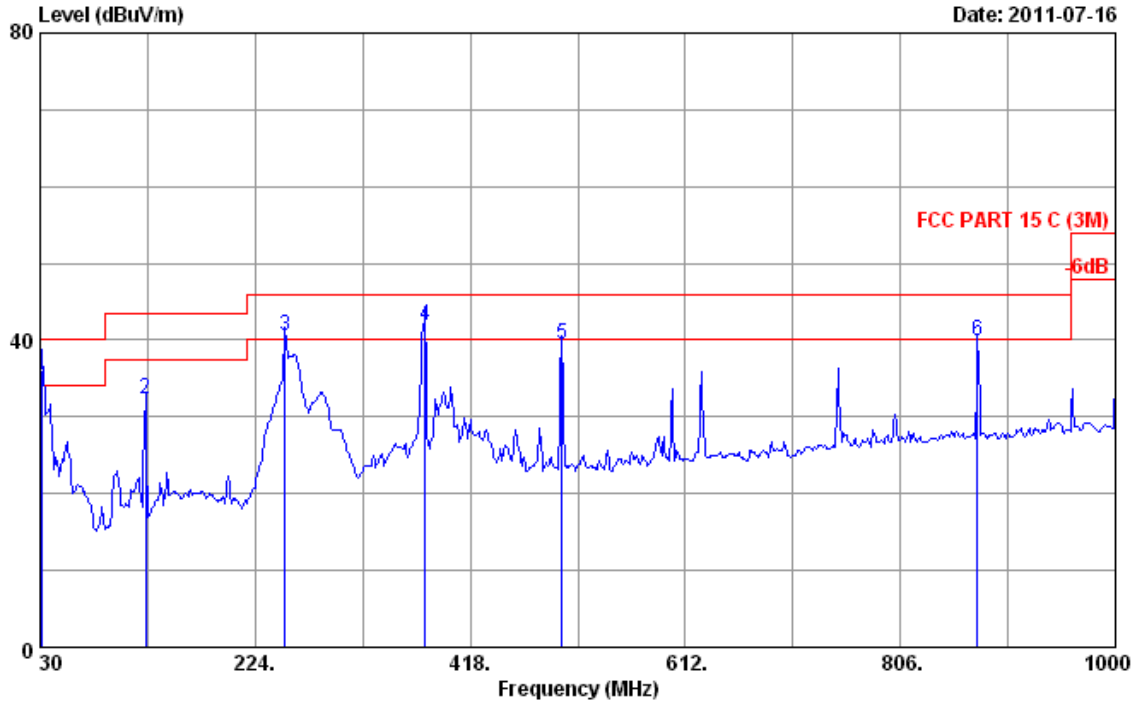
Note: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

Frequency: 30MHz~1GHz

Data: 2

File: E:\2011 Report data\E\Edgecore\ACS11Q1292.EM6 (2)

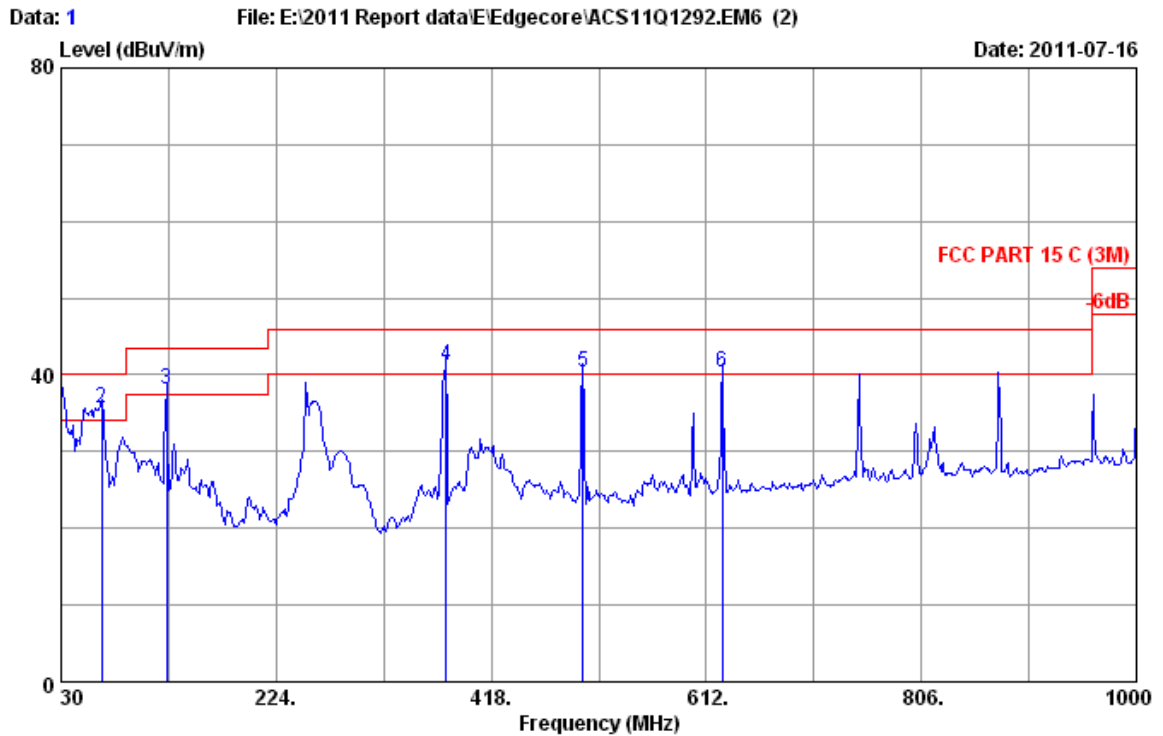
Date: 2011-07-16



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Leo_Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N:SMCWGBR14-N2

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	18.88	0.61	16.56	36.05	40.00	3.95	QP
2	125.060	12.10	1.34	18.78	32.22	43.50	11.28	QP
3	251.160	12.90	2.43	25.28	40.61	46.00	5.39	QP
4	377.260	15.64	3.25	23.04	41.93	46.00	4.07	QP
5	500.450	18.30	4.00	17.25	39.55	46.00	6.45	QP
6	875.840	22.80	5.62	11.41	39.83	46.00	6.17	QP

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

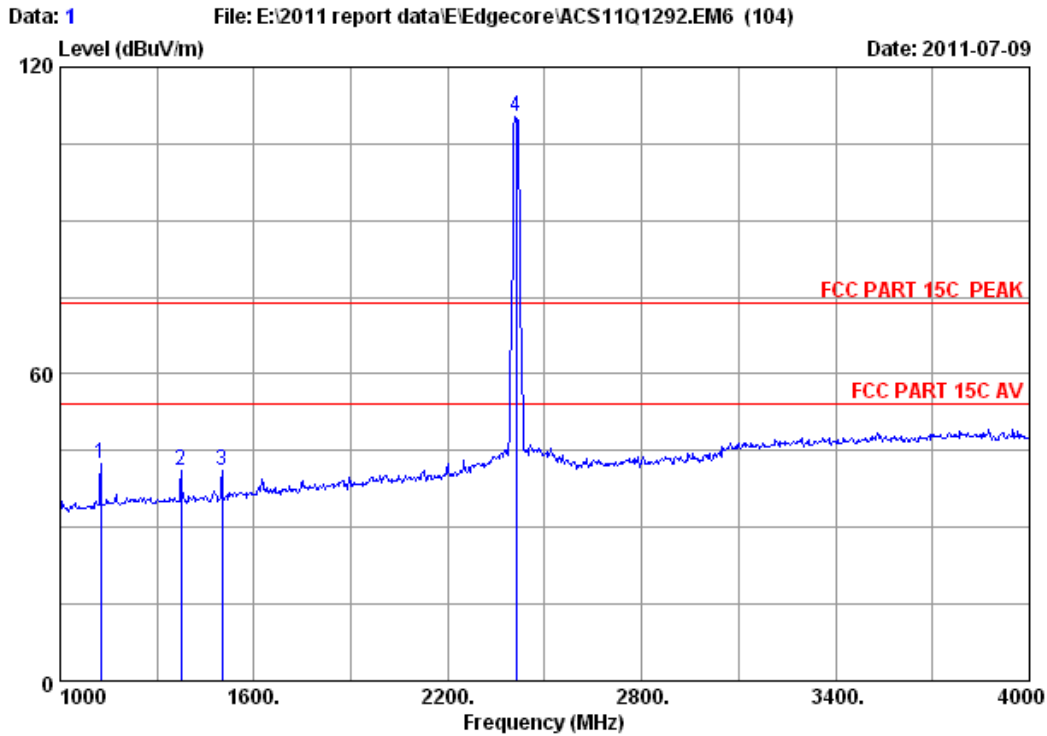


Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Leo_Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N:SMCWGBR14-N2

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.00	0.58	15.98	36.56	40.00	3.44	QP
2	66.860	6.24	0.95	28.53	35.72	40.00	4.28	QP
3	125.060	12.10	1.34	24.63	38.07	43.50	5.43	QP
4	377.260	15.64	3.25	22.43	41.32	46.00	4.68	QP
5	500.450	18.30	4.00	18.09	40.39	46.00	5.61	QP
6	626.550	20.13	4.64	15.65	40.42	46.00	5.58	QP

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

Frequency: 1GHz~18GHz

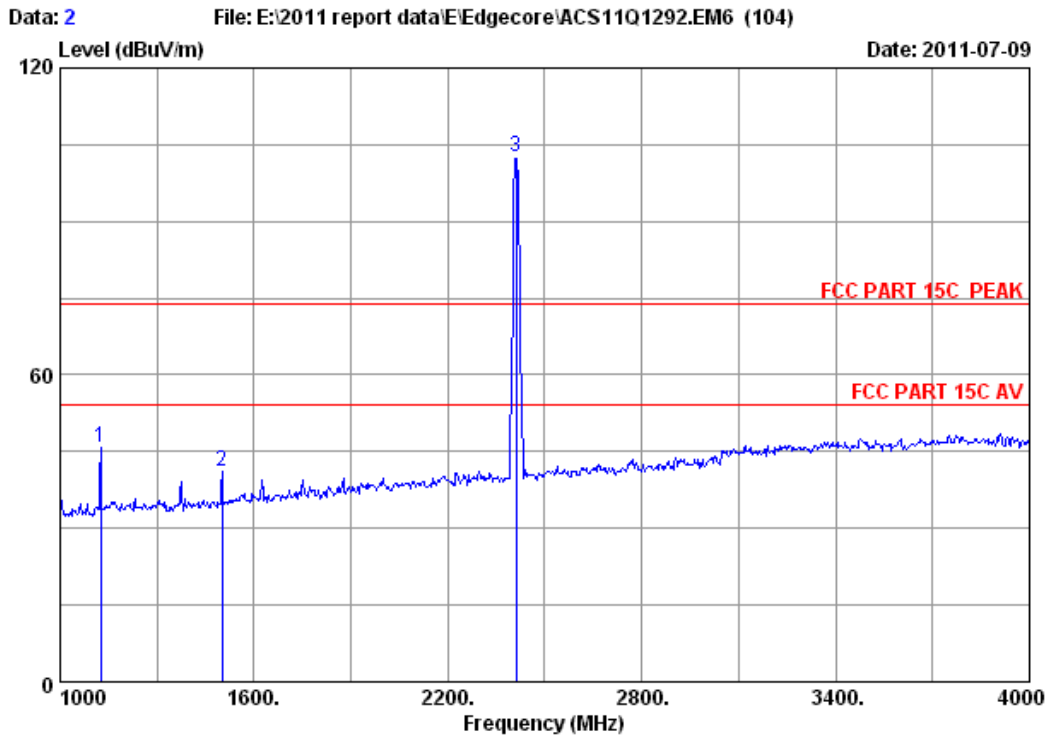


Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadban
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	48.19	42.52	74.00	31.48	Peak
2	1375.000	25.73	6.43	36.40	45.36	41.12	74.00	32.88	Peak
3	1501.000	25.90	6.77	36.57	44.93	41.03	74.00	32.97	Peak
4	2412.000	28.48	8.60	35.95	109.11	110.24	74.00	-36.24	Peak

Remarks:

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

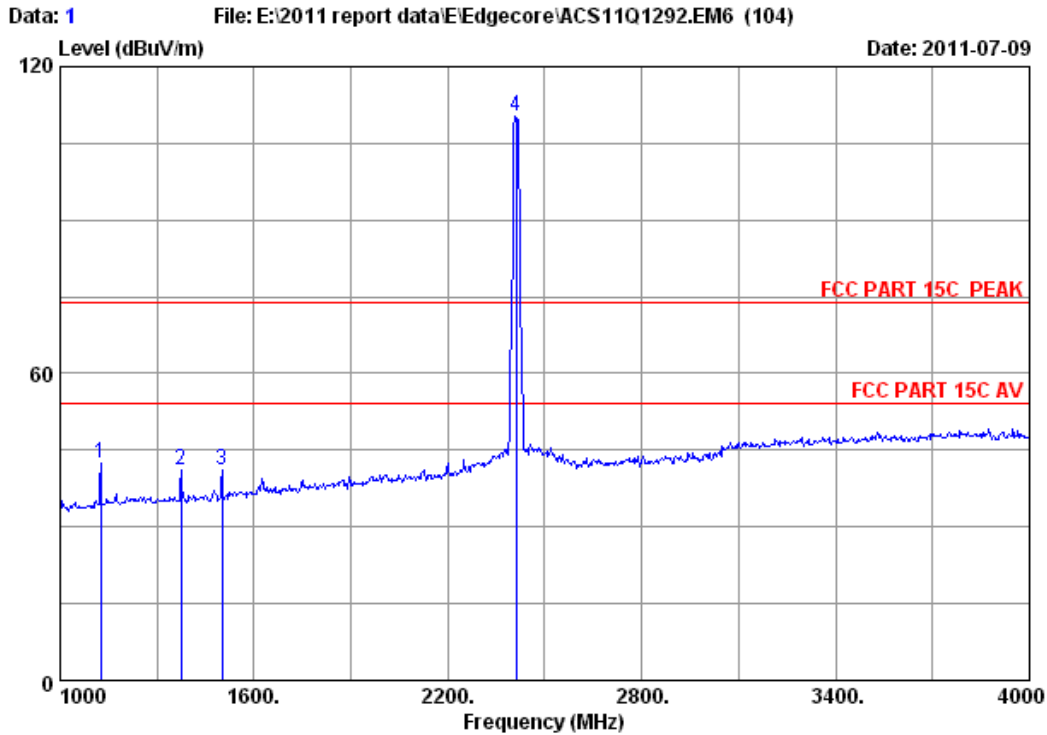


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadban
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	51.61	45.94	74.00	28.06	Peak
2	1501.000	25.90	6.77	36.57	44.89	40.99	74.00	33.01	Peak
3	2412.000	28.48	8.60	35.95	101.52	102.65	74.00	-28.65	Peak

Remarks:

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

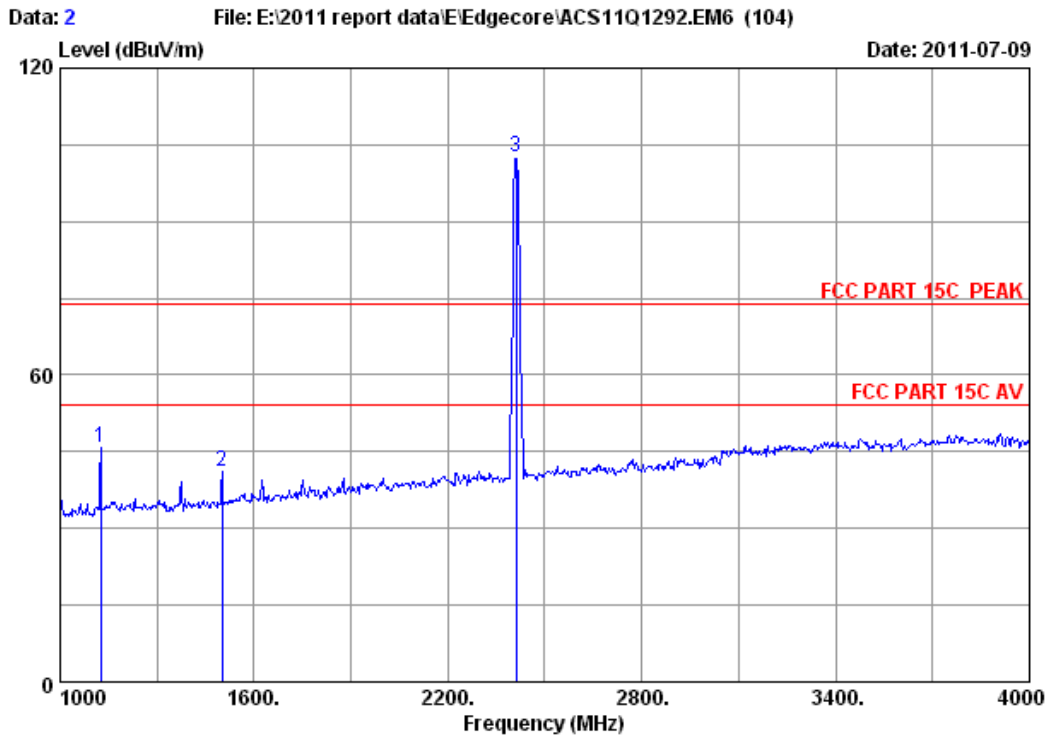


Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	48.19	42.52	74.00	31.48	Peak
2	1375.000	25.73	6.43	36.40	45.36	41.12	74.00	32.88	Peak
3	1501.000	25.90	6.77	36.57	44.93	41.03	74.00	32.97	Peak
4	2412.000	28.48	8.60	35.95	109.11	110.24	74.00	-36.24	Peak

Remarks:

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



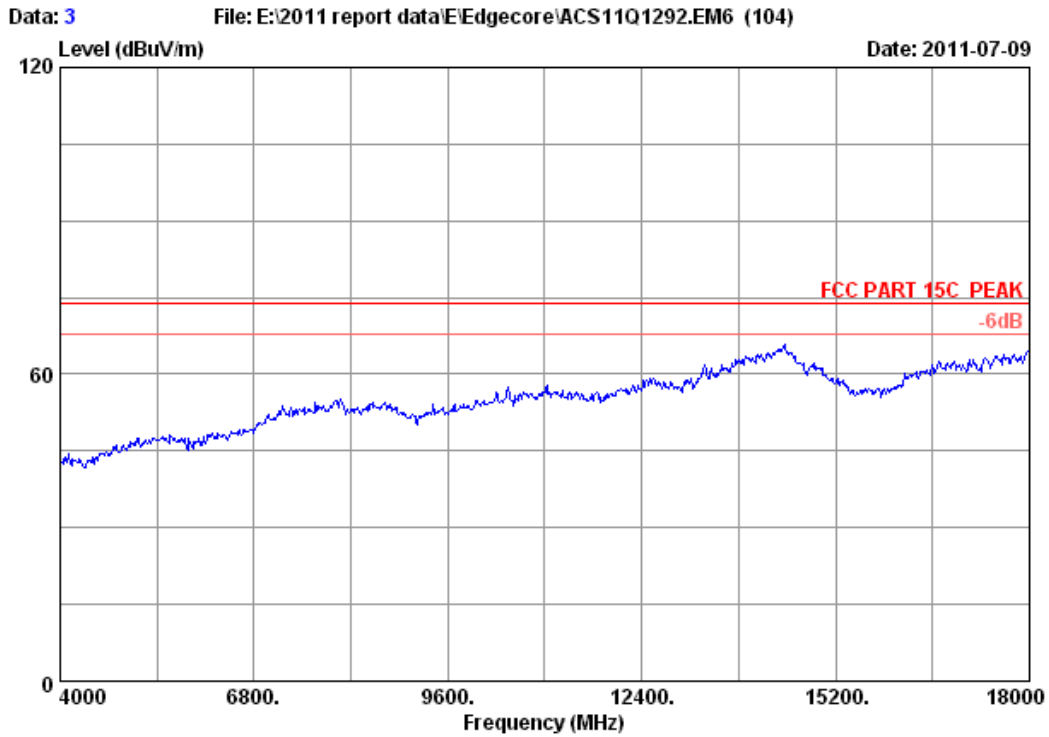
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Site no.      : 3m Chamber           Data no. : 2
Dis. / Ant.  : 3m 3115(0905)       Ant. pol.: HORIZONTAL
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23*C/54%           Engineer : Leo-Li
EUT          : 802.11n Wireless 4-port Gigabit Broadband Router
Power        : DC 12V From Adapter input AC 120V/60Hz
Test mode    : IEEE802.11b CH1 2412MHz Tx
M/N          : SMCWGBR14-N2
    
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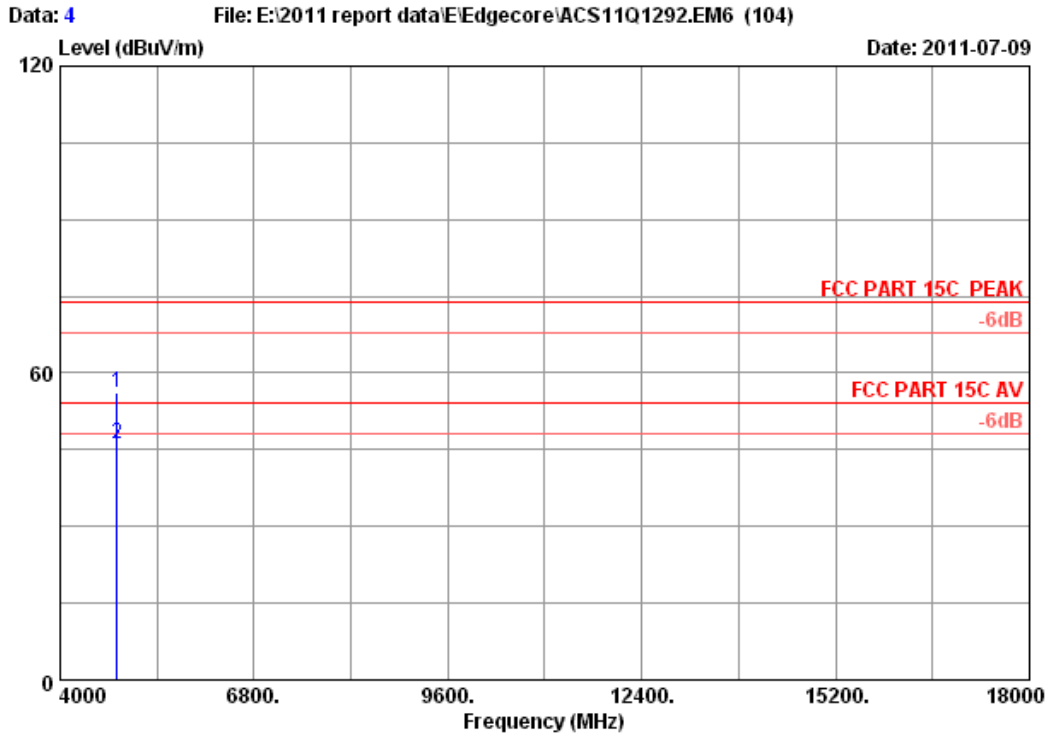
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	51.61	45.94	74.00	28.06	Peak
2	1501.000	25.90	6.77	36.57	44.89	40.99	74.00	33.01	Peak
3	2412.000	28.48	8.60	35.95	101.52	102.65	74.00	-28.65	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWGBR14-N2

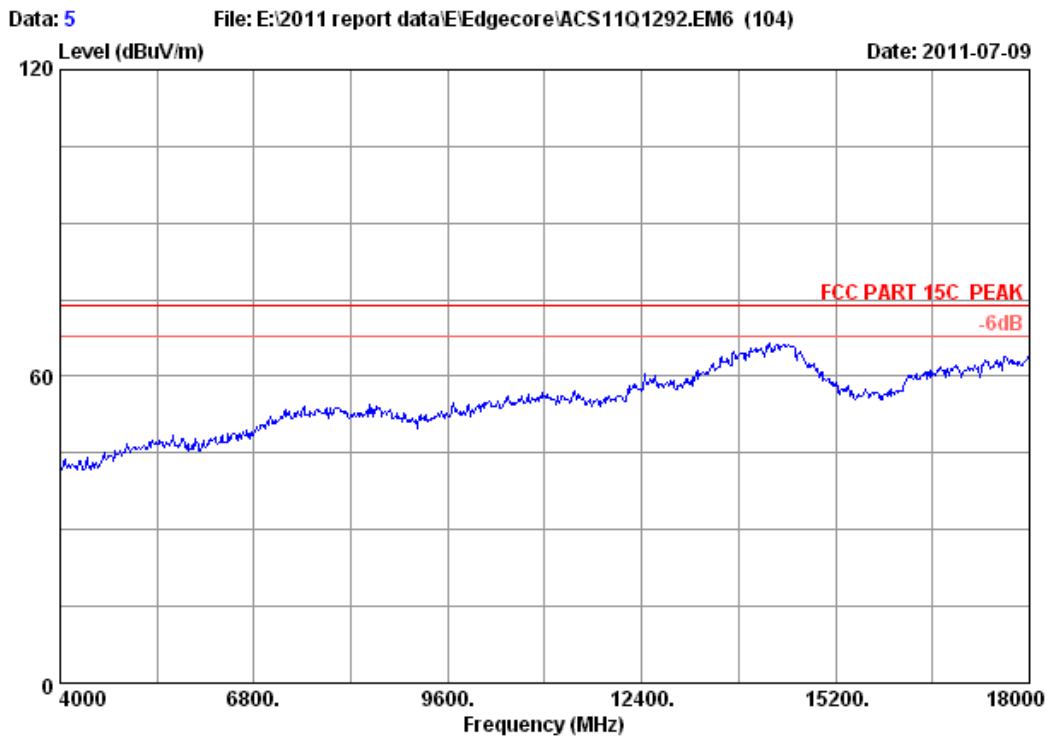


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

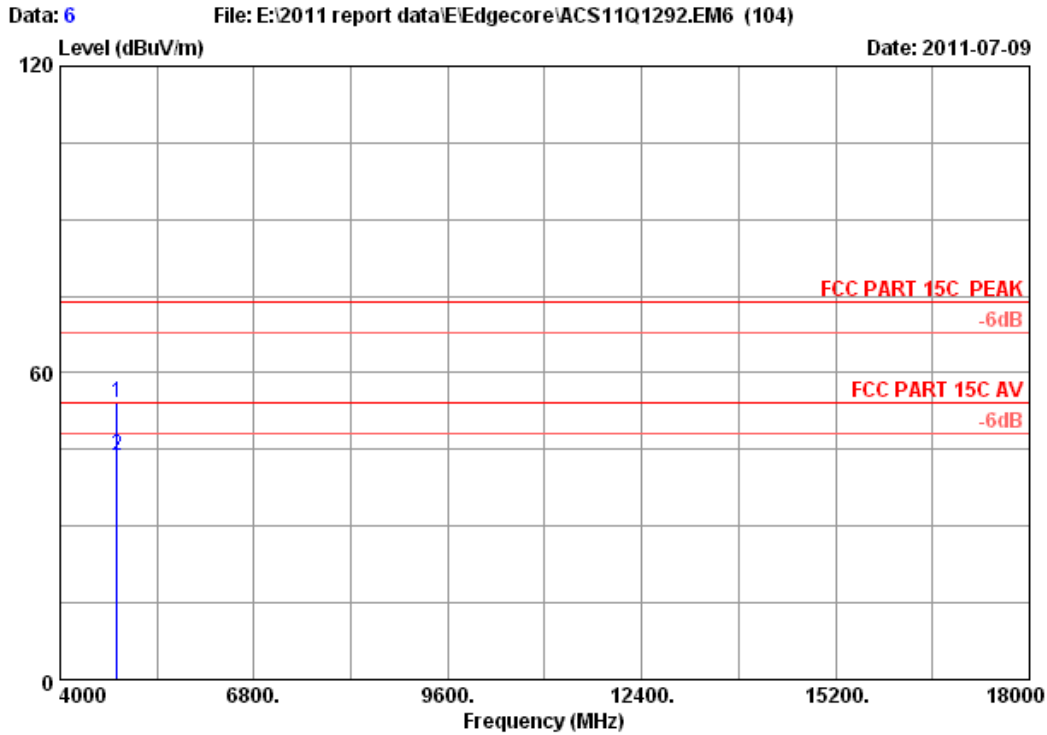
	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.000	34.47	12.58	35.25	44.38	56.18	74.00	17.82	Peak
2	4824.000	34.47	12.58	35.25	34.23	46.03	54.00	7.97	Average

Remarks:

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



Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWGBR14-N2

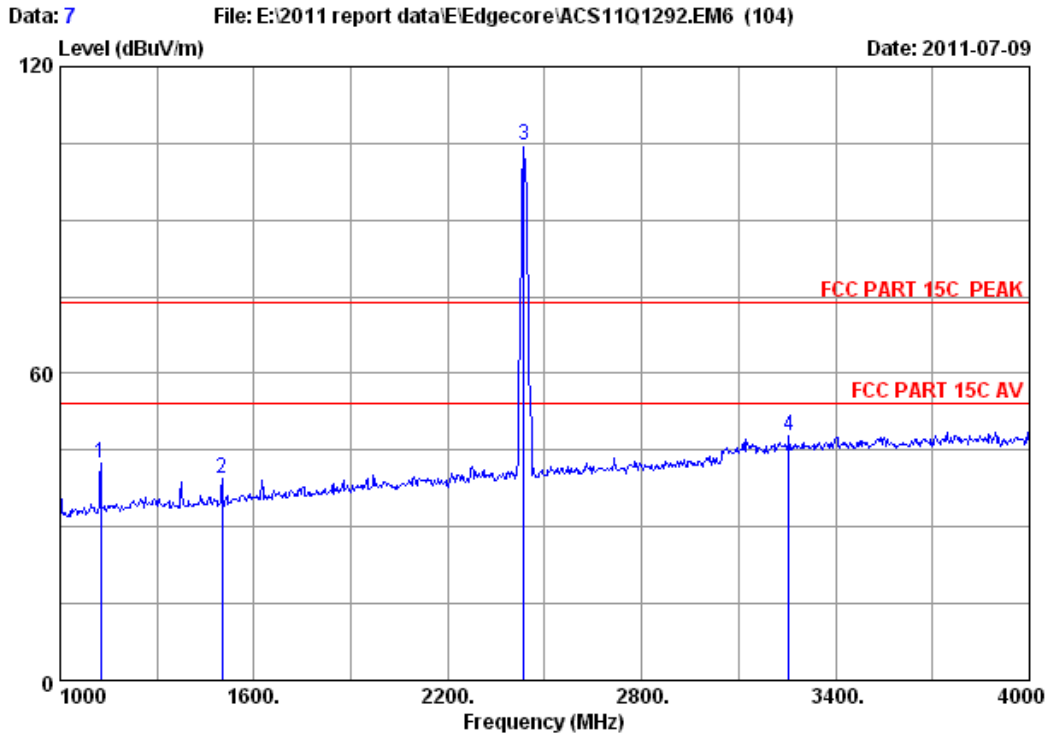


Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.47	12.58	35.25	42.20	54.00	74.00	20.00	Peak
2	4824.000	34.47	12.58	35.25	32.08	43.88	54.00	10.12	Average

Remarks:

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

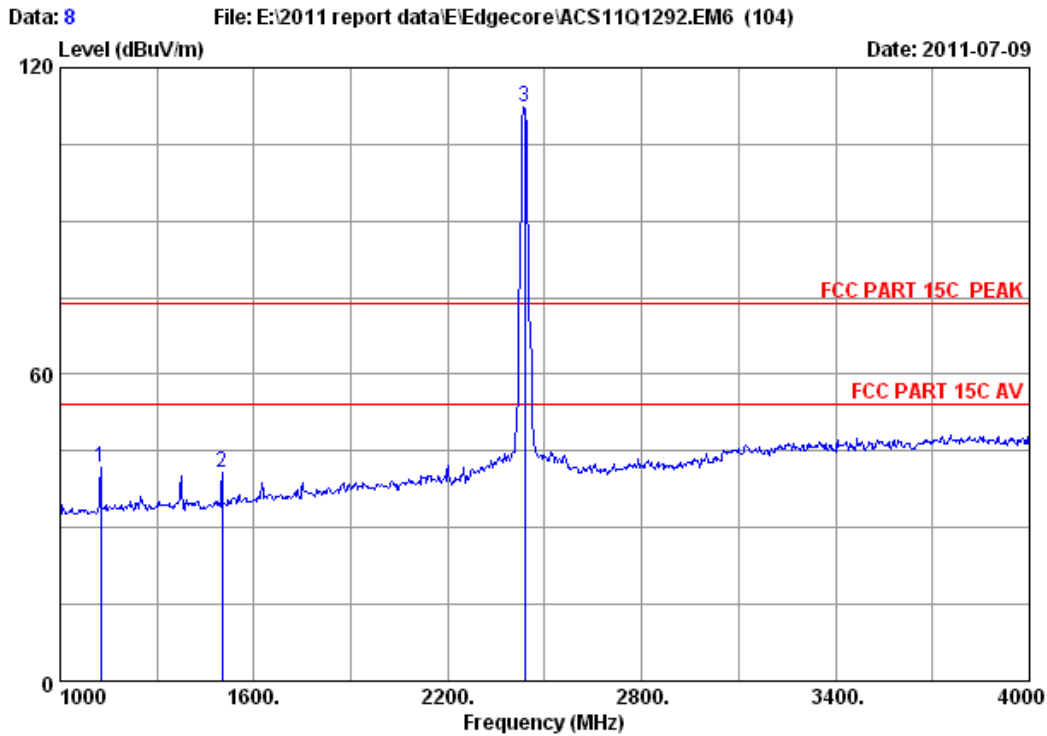


Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	48.19	42.52	74.00	31.48	Peak
2	1501.000	25.90	6.77	36.57	43.46	39.56	74.00	34.44	Peak
3	2434.000	28.50	8.60	36.01	103.51	104.60	74.00	-30.60	Peak
4	3256.000	30.92	10.19	35.79	42.56	47.88	74.00	26.12	Peak

Remarks:

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

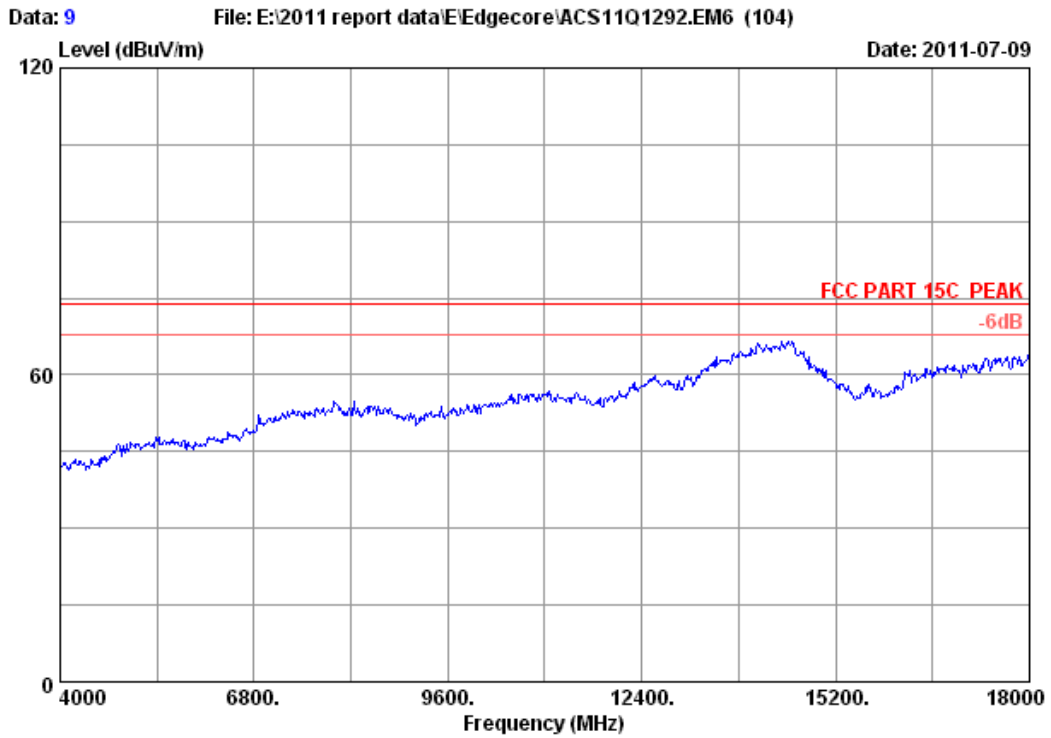


Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : SMCWGBR14-N2

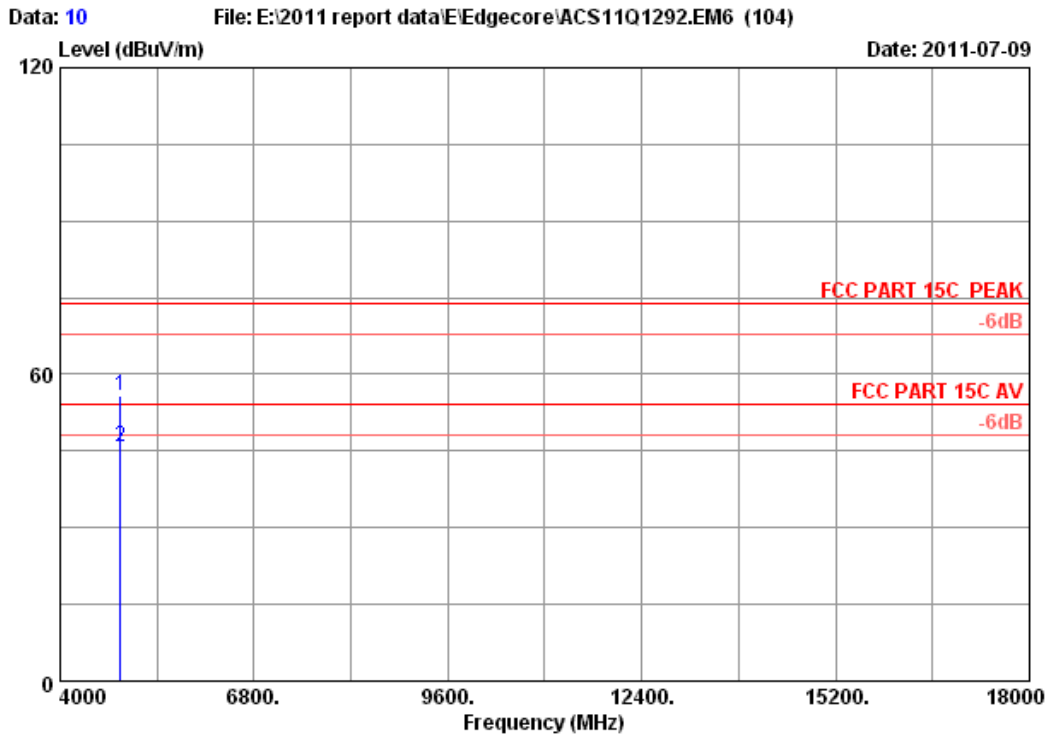
	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	1126.000	25.37	6.15	37.19	47.47	41.80	74.00 32.20	Peak	
2	1501.000	25.90	6.77	36.57	44.61	40.71	74.00 33.29	Peak	
3	2437.000	28.53	8.60	36.06	111.13	112.20	74.00 -38.20	Peak	

Remarks:

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



Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWGBR14-N2

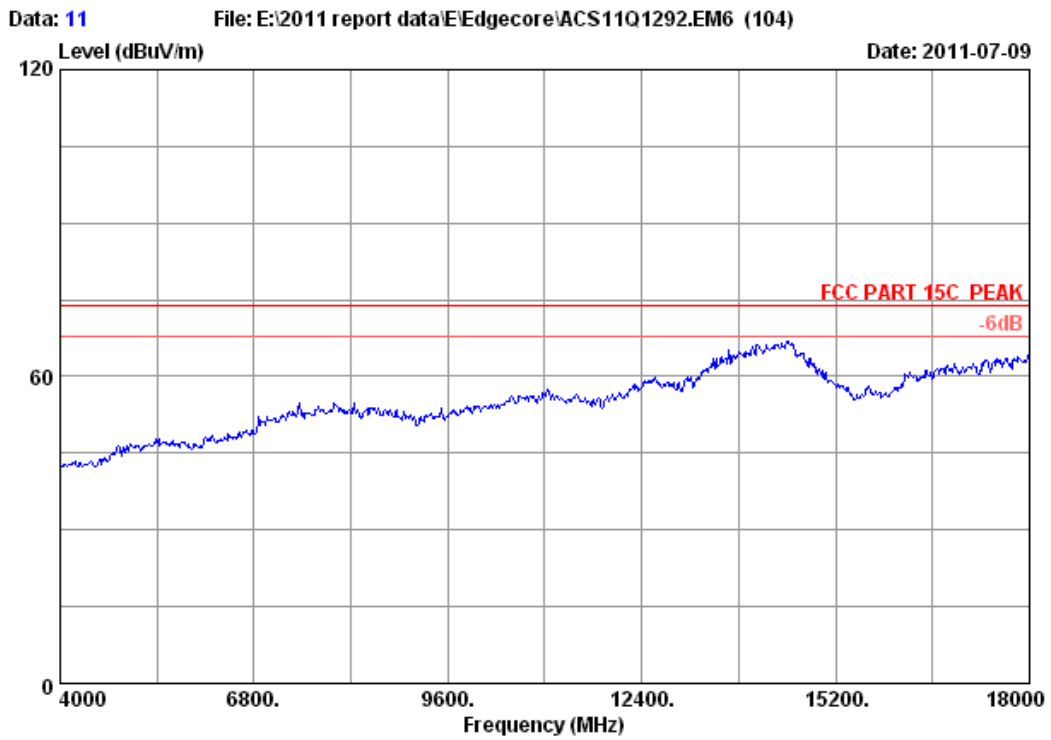


Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : SMCWGBR14-N2

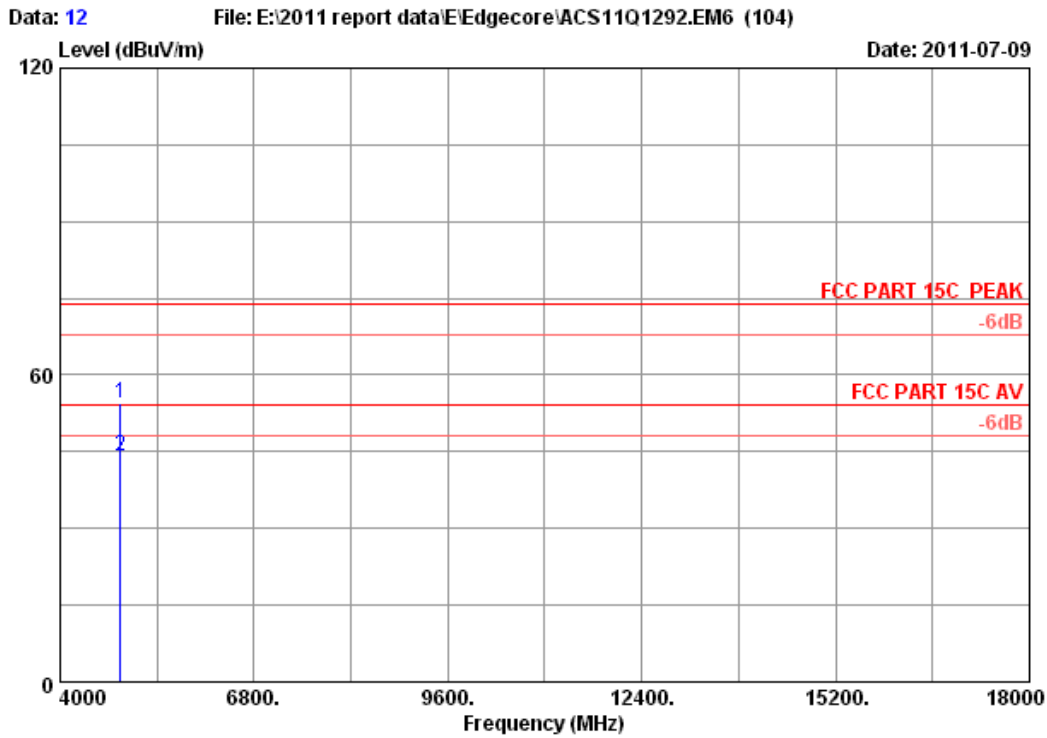
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	12.23	35.36	44.08	55.73	74.00	18.27	Peak
2	4874.000	34.78	12.23	35.36	34.28	45.93	54.00	8.07	Average

Remarks:

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



Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWGBR14-N2

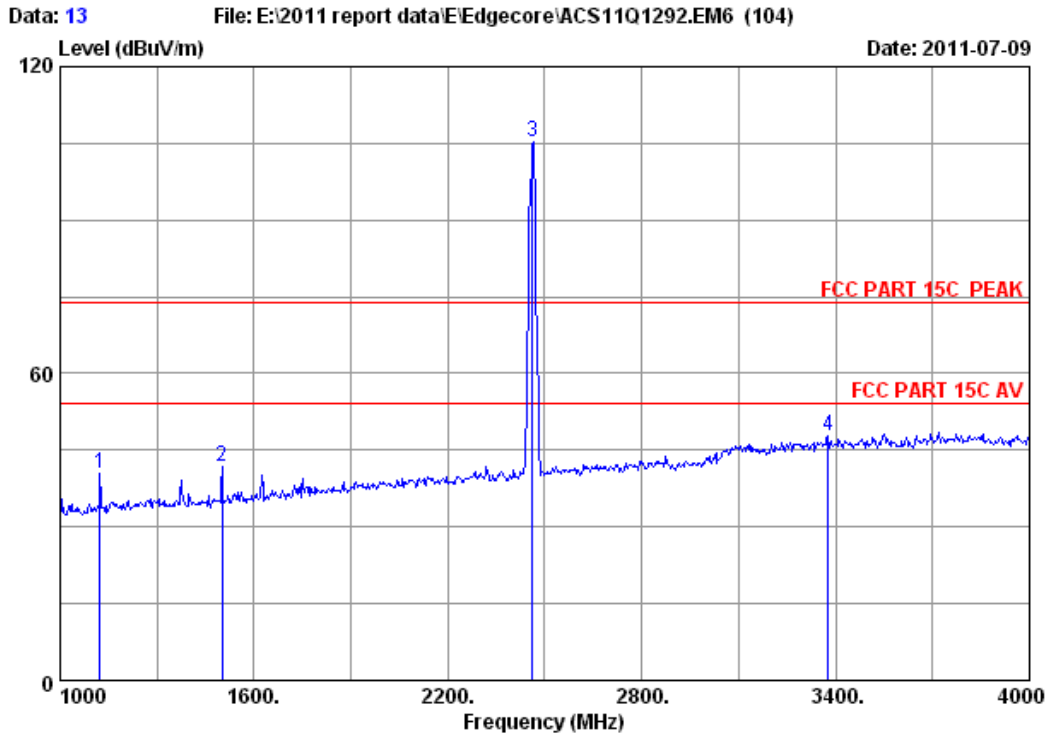


Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	12.23	35.36	42.95	54.60	74.00	19.40	Peak
2	4874.000	34.78	12.23	35.36	32.57	44.22	54.00	9.78	Average

Remarks:

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

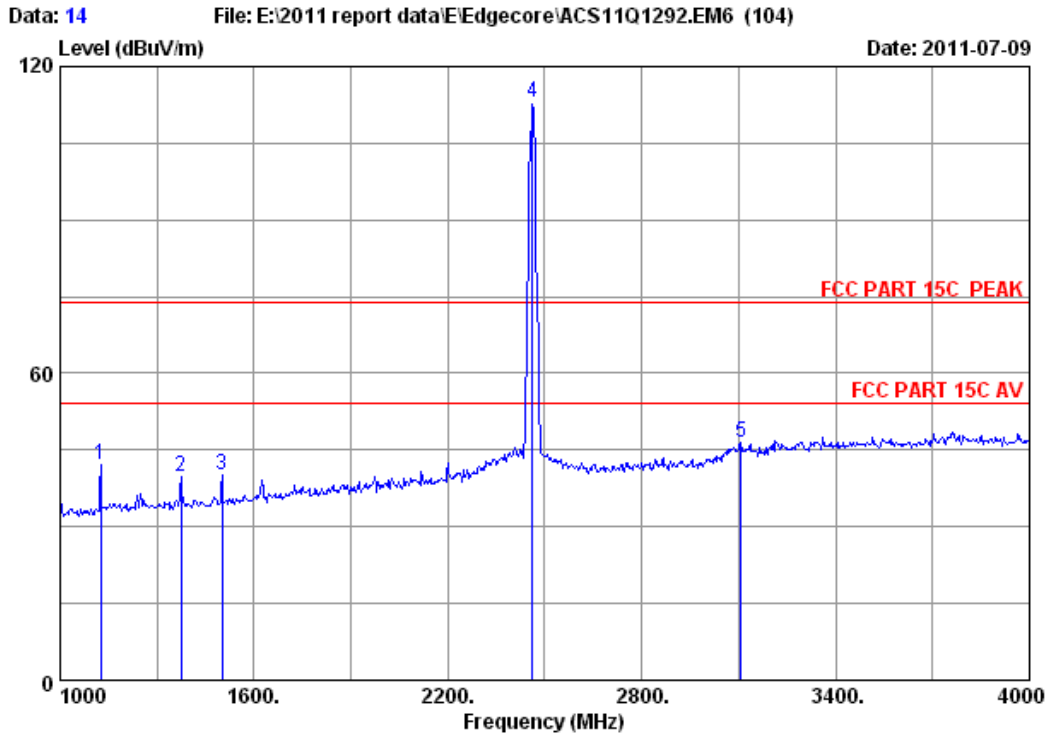


Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Freq.	Ant.	Cable	Amp.	Reading	Emission	Limits	Margin	Remark
	(MHz)	(dB/m)	loss	Factor	(dBuV)	Level	(dBuV/m)	(dB)	
			(dB)	(dB)		(dBuV/m)	(dBuV/m)	(dB)	
1	1123.000	25.37	6.15	37.19	46.05	40.38	74.00	33.62	Peak
2	1501.000	25.90	6.77	36.57	45.75	41.85	74.00	32.15	Peak
3	2462.000	28.55	8.76	36.02	104.09	105.38	74.00	-31.38	Peak
4	3376.000	31.26	10.37	35.53	41.71	47.81	74.00	26.19	Peak

Remarks:

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

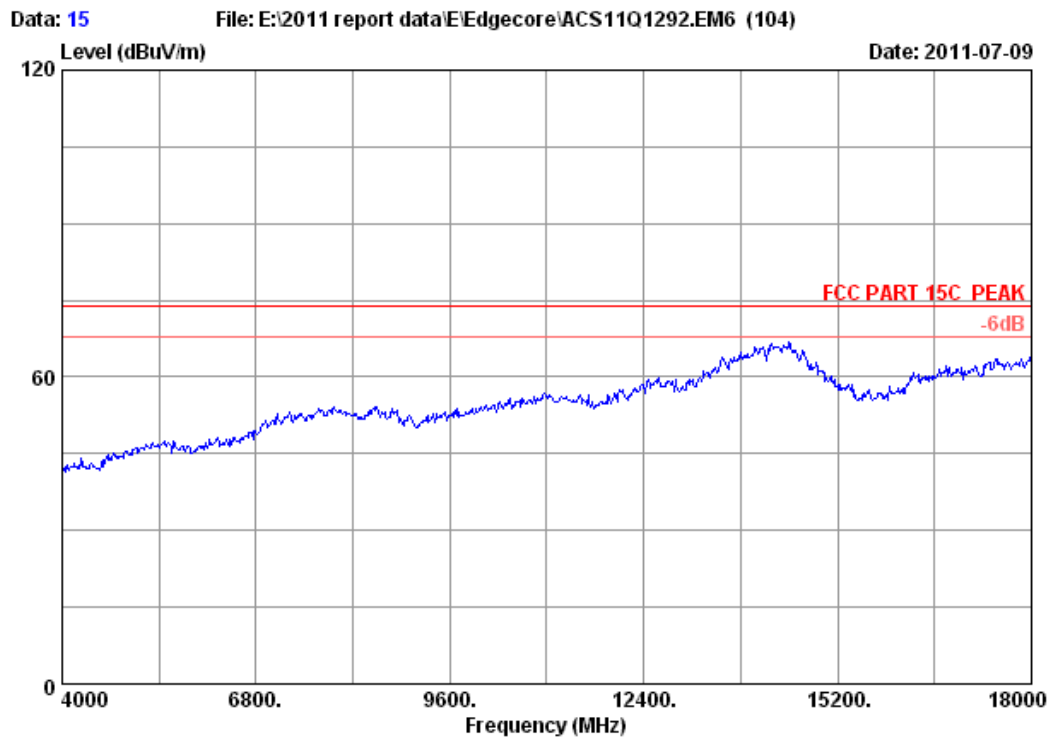


Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

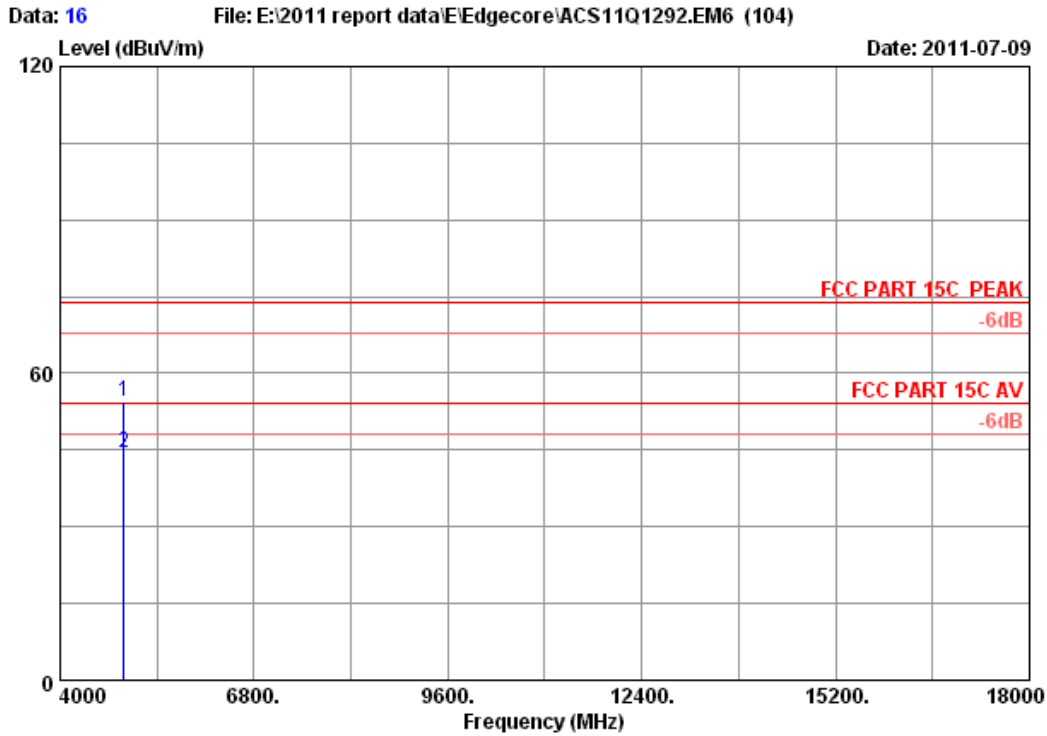
	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	1126.000	25.37	6.15	37.19	47.76	42.09	74.00	31.91	Peak
2	1375.000	25.73	6.43	36.40	44.03	39.79	74.00	34.21	Peak
3	1501.000	25.90	6.77	36.57	43.98	40.08	74.00	33.92	Peak
4	2462.000	28.55	8.76	36.02	111.64	112.93	74.00	-38.93	Peak
5	3106.000	30.49	9.98	35.73	41.71	46.45	74.00	27.55	Peak

Remarks:

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



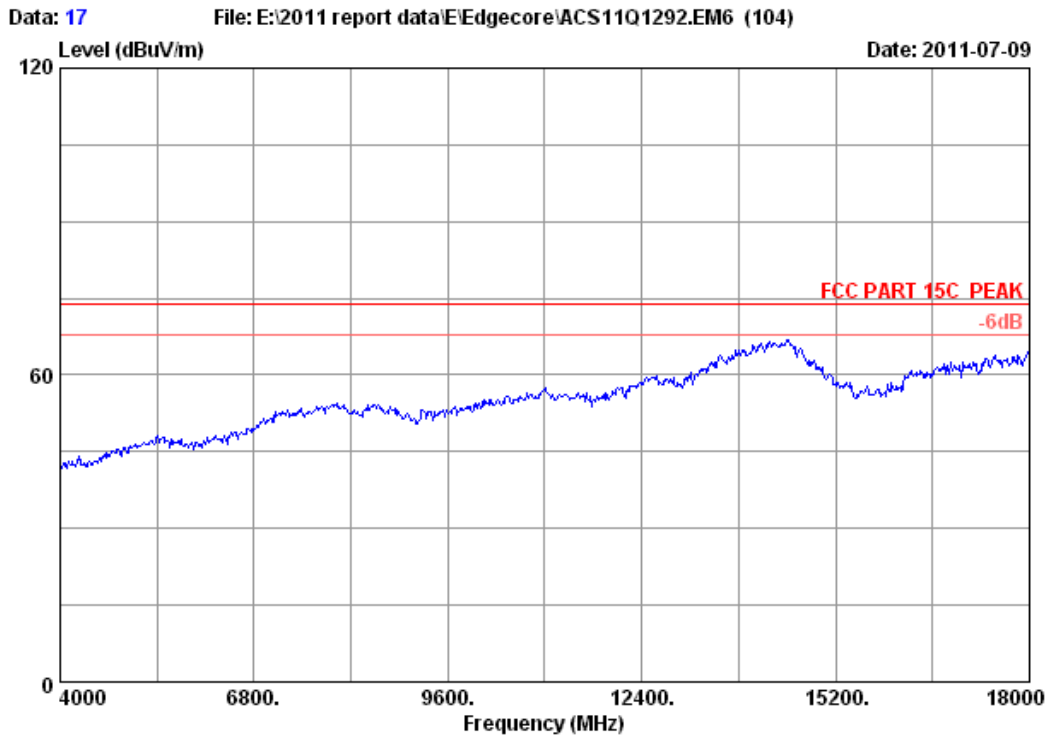
Site no. : 3m Chamber Data no. : 15
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : SMCWGBR14-N2



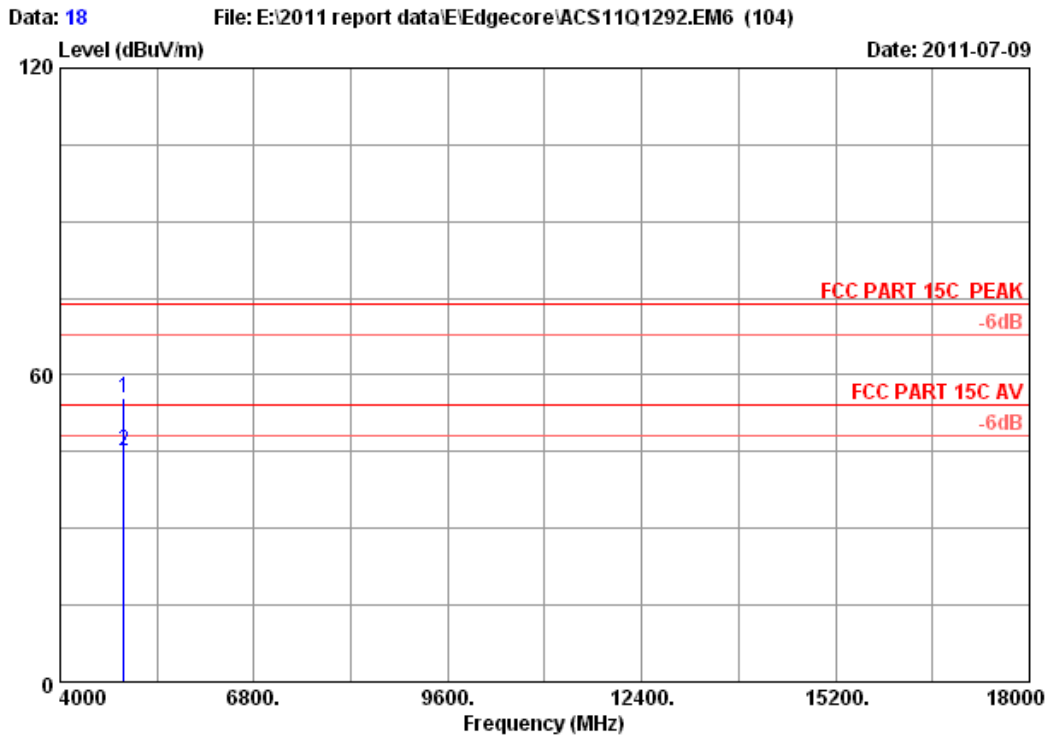
Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	4924.000	35.09	12.58	35.34	42.18	54.51	74.00	19.49	Peak
2	4924.000	35.09	12.58	35.34	32.08	44.41	54.00	9.59	Average

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



Site no.	: 3m Chamber	Data no. :	17
Dis. / Ant.	: 3m 3115(0905)	Ant. pol. :	VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer :	Leo-Li
EUT	: 802.11n Wireless 4-port Gigabit Broadband Router		
Power	: DC 12V From Adapter input AC 120V/60Hz		
Test mode	: IEEE802.11b CH11 2462MHz Tx		
M/N	: SMCWGBR14-N2		

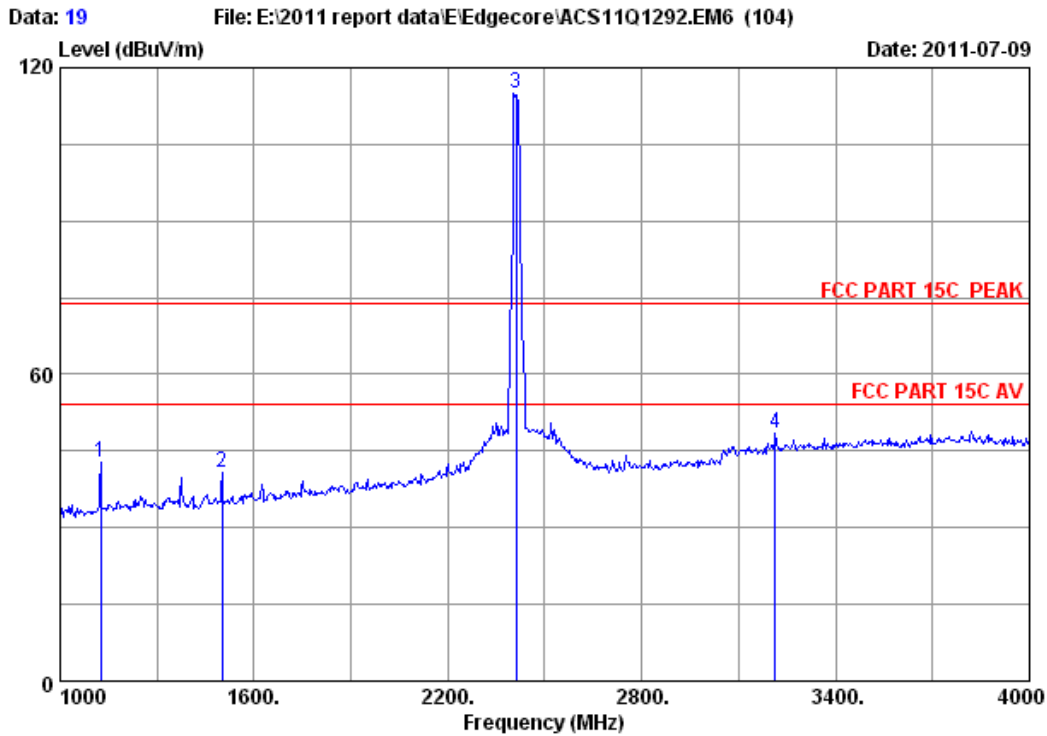


Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.09	12.58	35.34	43.28	55.61	74.00	18.39	Peak
2	4924.000	35.09	12.58	35.34	32.96	45.29	54.00	8.71	Average

Remarks:

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

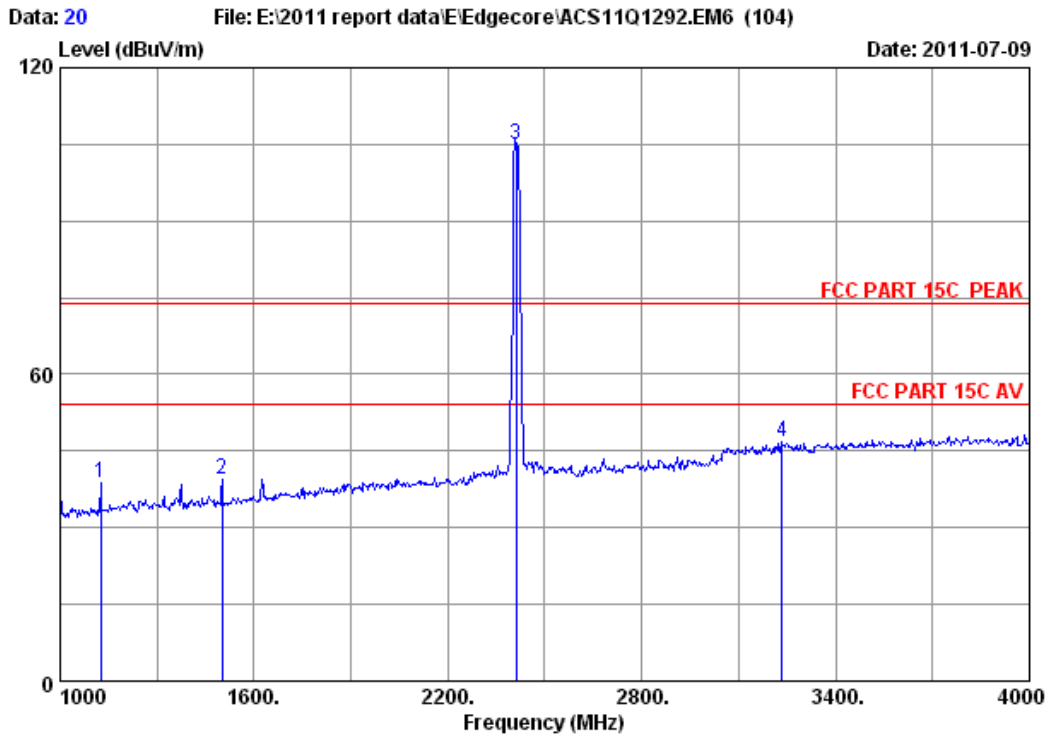


Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	48.60	42.93	74.00	31.07	Peak
2	1501.000	25.90	6.77	36.57	44.62	40.72	74.00	33.28	Peak
3	2412.000	28.48	8.60	35.95	113.88	115.01	74.00	-41.01	Peak
4	3214.000	30.78	9.88	35.86	43.53	48.33	74.00	25.67	Peak

Remarks:

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

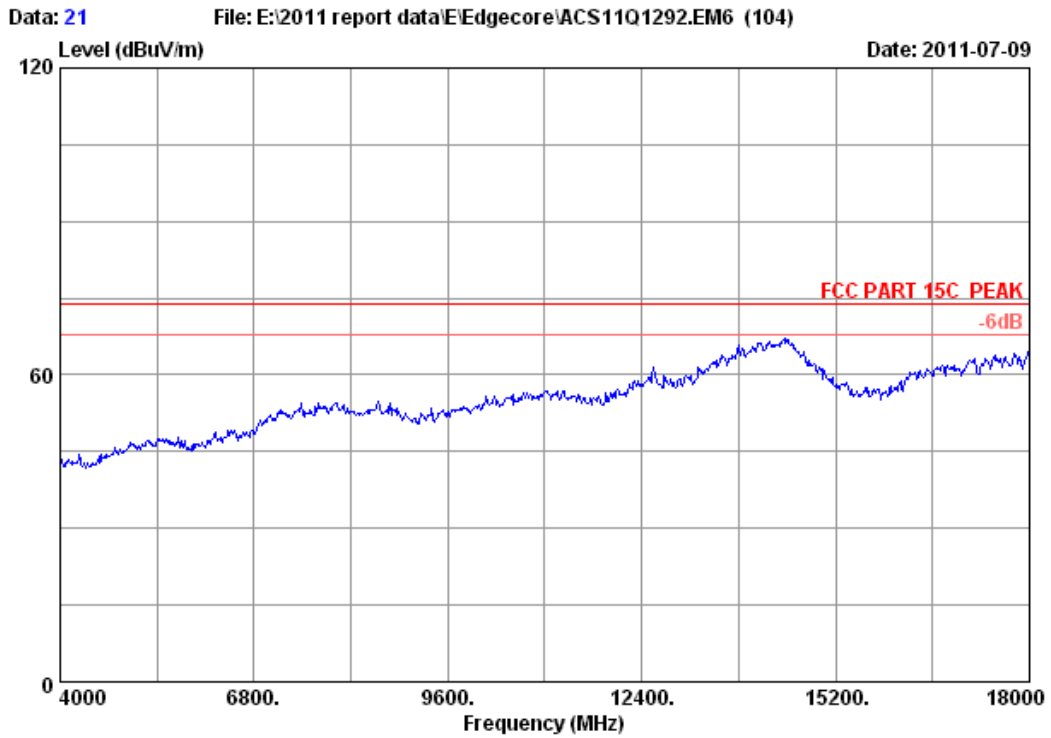


Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

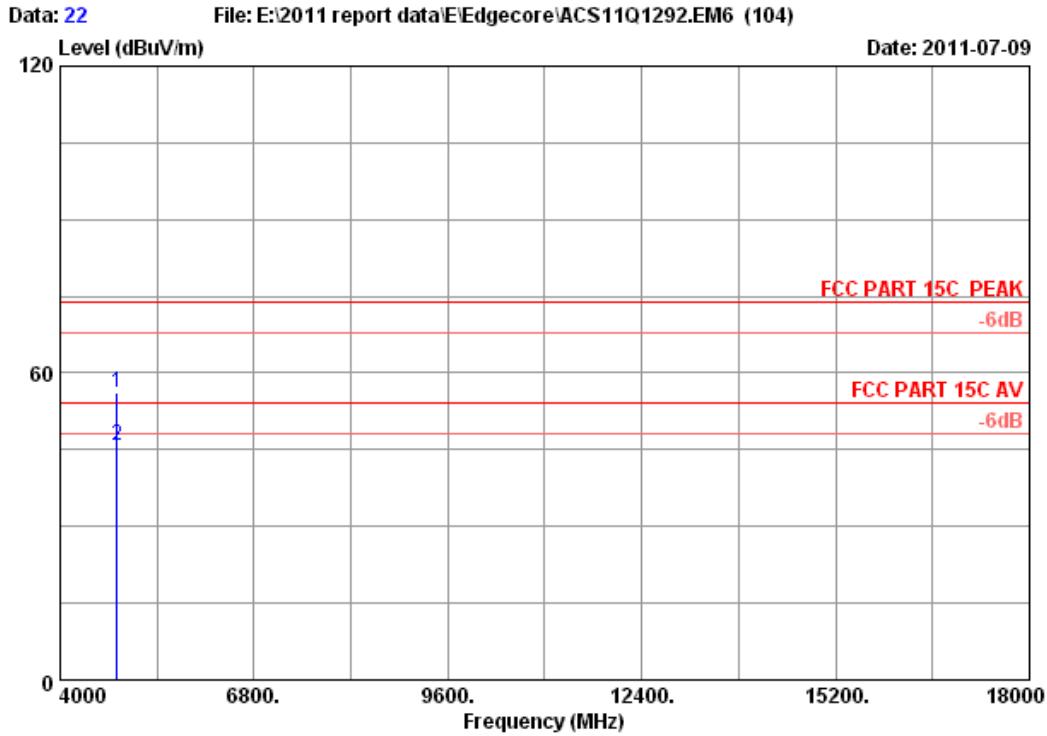
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	44.60	38.93	74.00	35.07	Peak
2	1501.000	25.90	6.77	36.57	43.47	39.57	74.00	34.43	Peak
3	2412.000	28.48	8.60	35.95	103.77	104.90	74.00	-30.90	Peak
4	3235.000	30.83	10.04	35.77	41.55	46.65	74.00	27.35	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWGBR14-N2

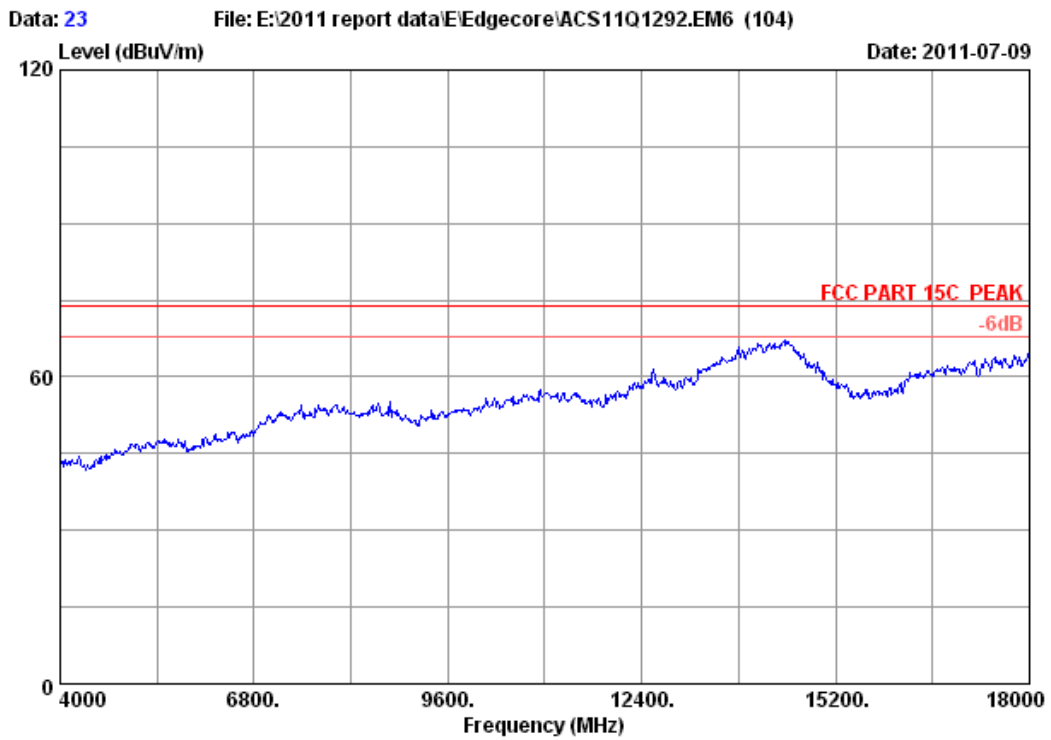


Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

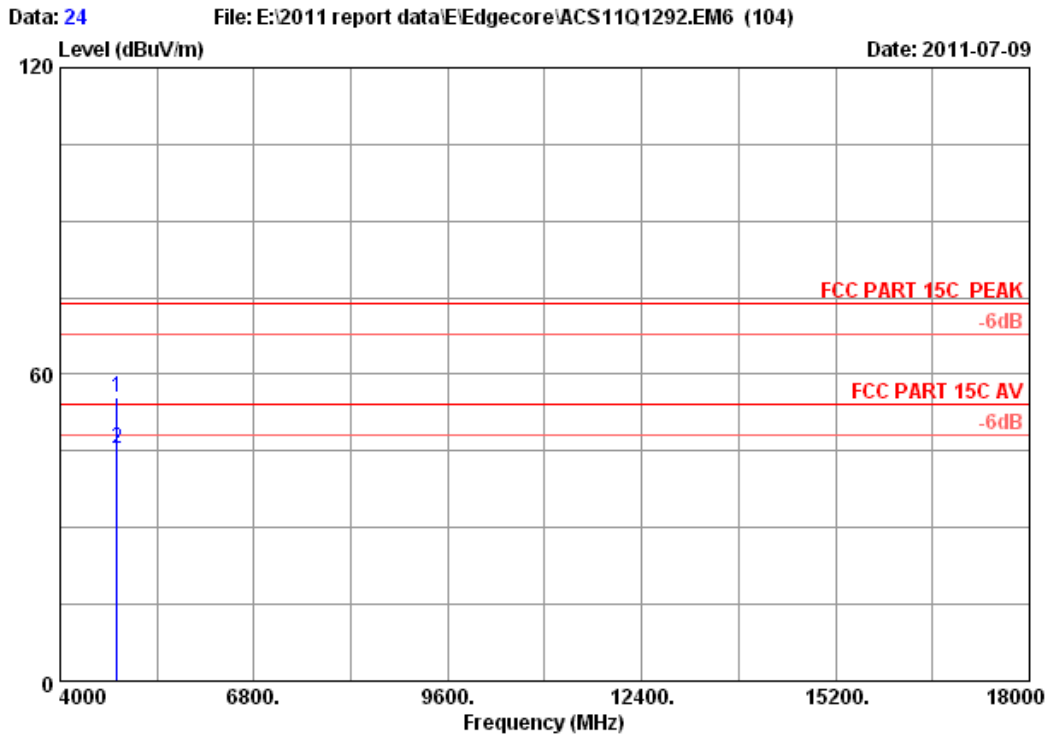
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.47	12.58	35.25	44.23	56.03	74.00	17.97	Peak
2	4824.000	34.47	12.58	35.25	34.00	45.80	54.00	8.20	Average

Remarks:

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



Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWGBR14-N2

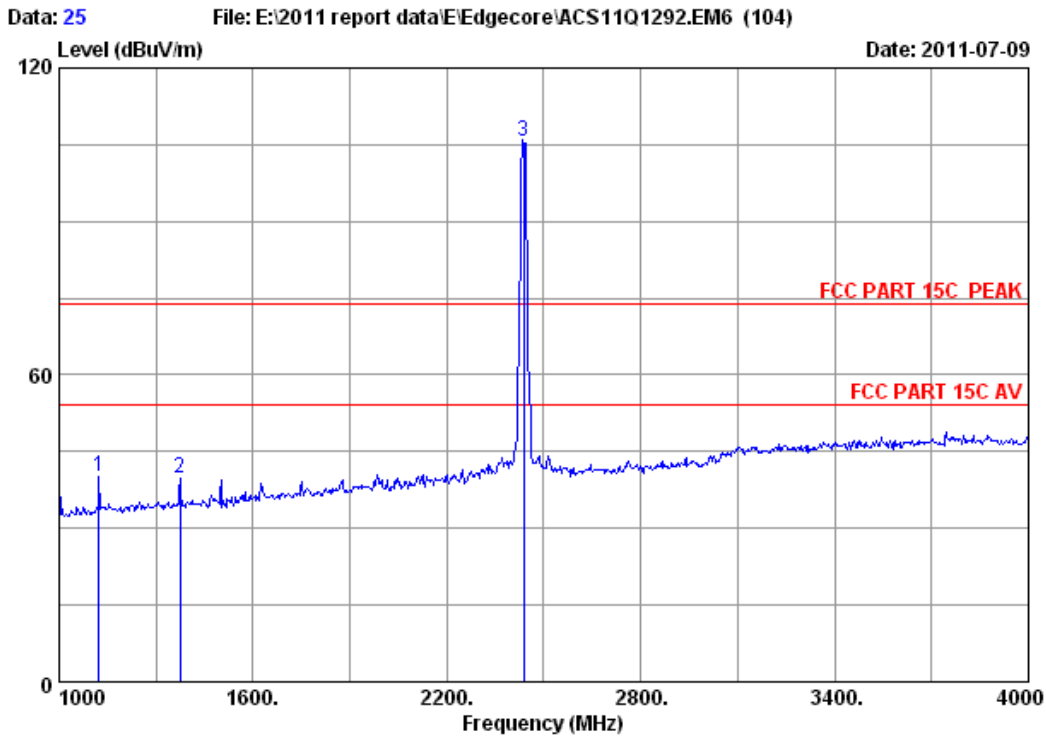


Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.47	12.58	35.25	43.67	55.47	74.00	18.53	Peak
2	4824.000	34.47	12.58	35.25	33.53	45.33	54.00	8.67	Average

Remarks:

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



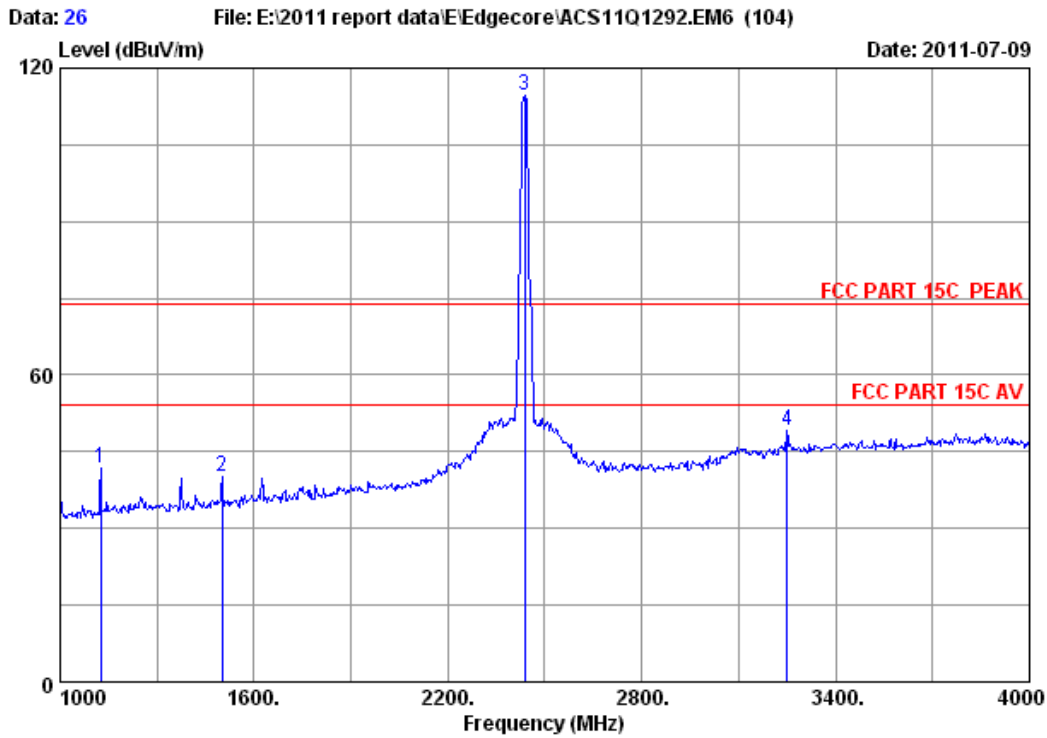
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Site no.      : 3m Chamber           Data no. : 25
Dis. / Ant.  : 3m 3115(0905)        Ant. pol.: HORIZONTAL
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23*C/54%             Engineer : Leo-Li
EUT          : 802.11n Wireless 4-port Gigabit Broadband Router
Power        : DC 12V From Adapter input AC 120V/60Hz
Test mode    : IEEE802.11g CH6 2437MHz Tx
M/N          : SMCWGBR14-N2
    
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1123.000	25.37	6.15	37.19	45.78	40.11	74.00	33.89	Peak
2	1375.000	25.73	6.43	36.40	43.98	39.74	74.00	34.26	Peak
3	2437.000	28.53	8.60	36.06	104.47	105.54	74.00	-31.54	Peak

Remarks:

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

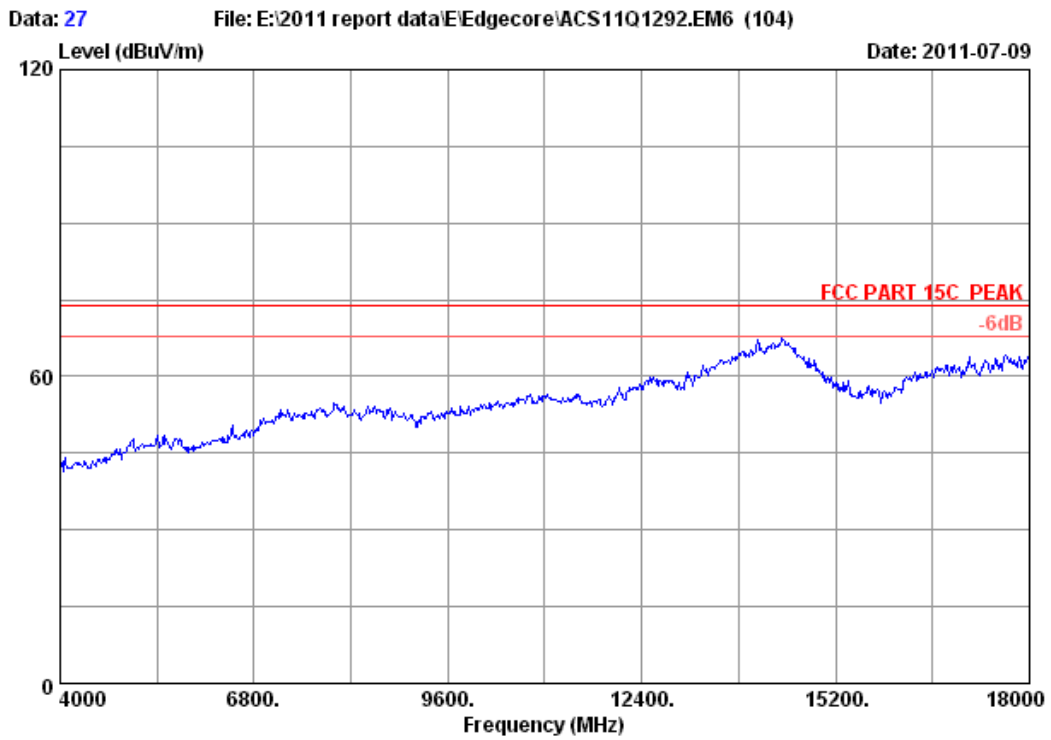


Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : SMCWGBR14-N2

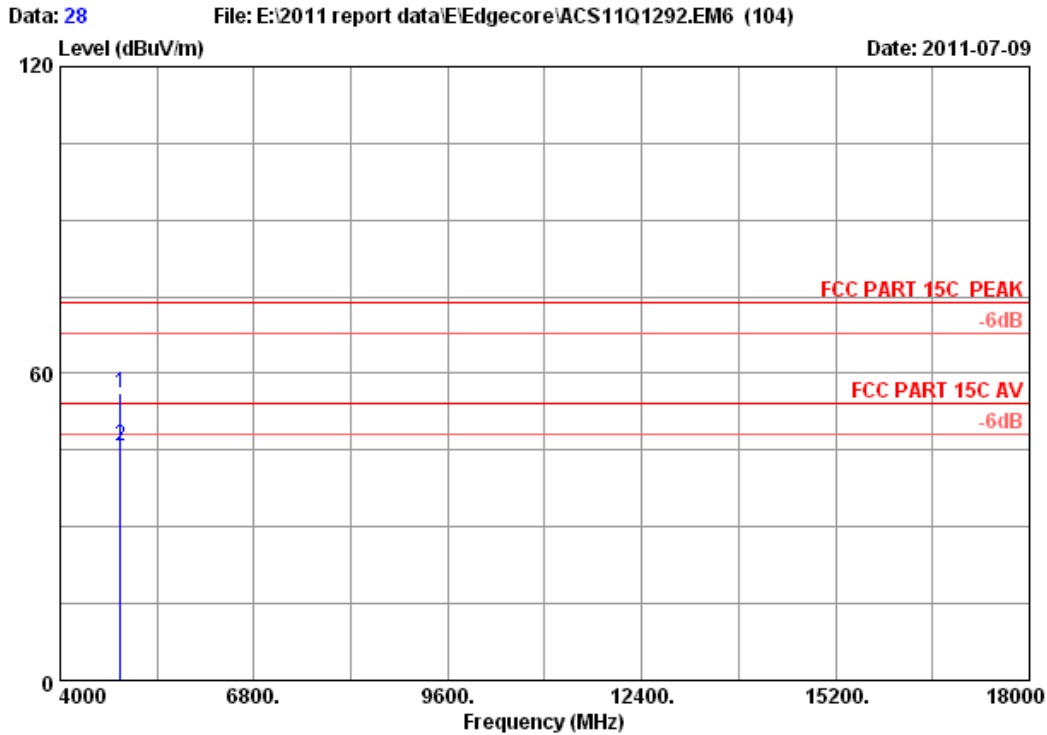
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	47.34	41.67	74.00	32.33	Peak
2	1501.000	25.90	6.77	36.57	44.10	40.20	74.00	33.80	Peak
3	2437.000	28.53	8.60	36.06	113.57	114.64	74.00	-40.64	Peak
4	3250.000	30.88	10.19	35.68	43.59	48.98	74.00	25.02	Peak

Remarks:

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



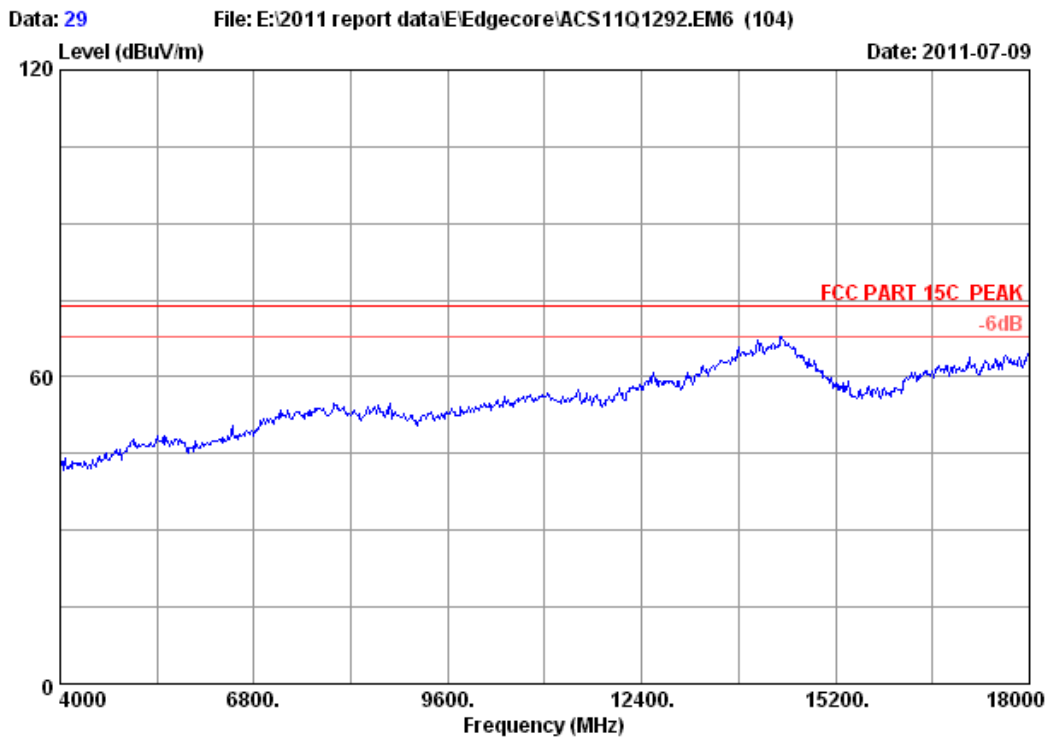
Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWGBR14-N2



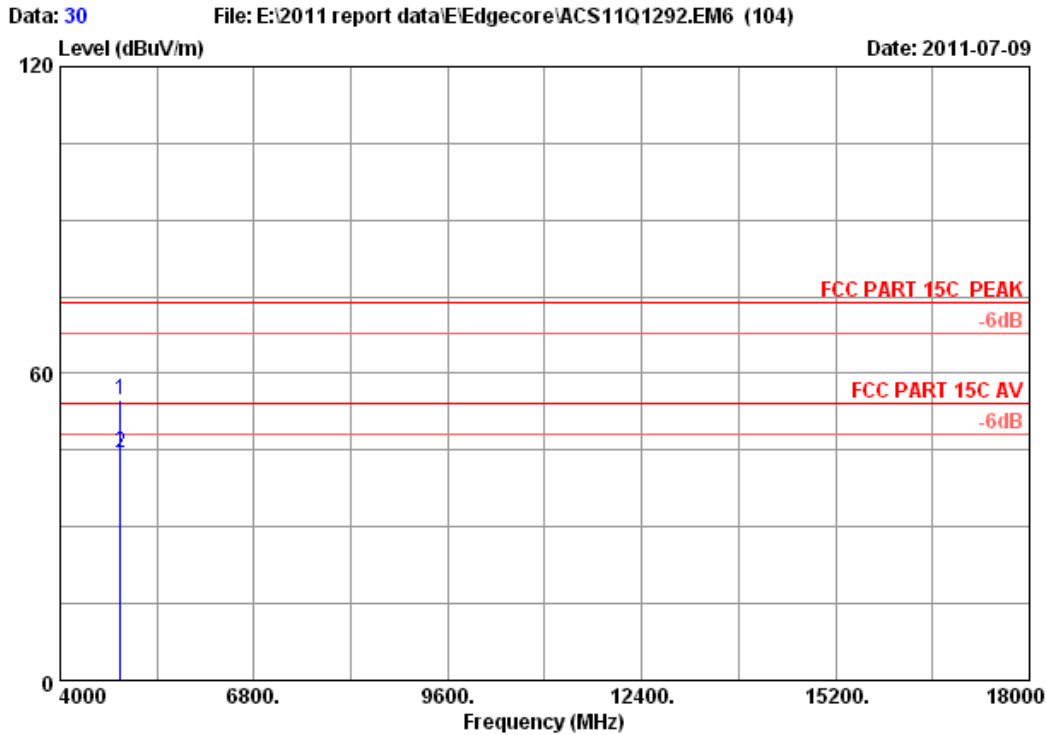
Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	12.23	35.36	44.57	56.22	74.00	17.78	Peak
2	4874.000	34.78	12.23	35.36	34.26	45.91	54.00	8.09	Average

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



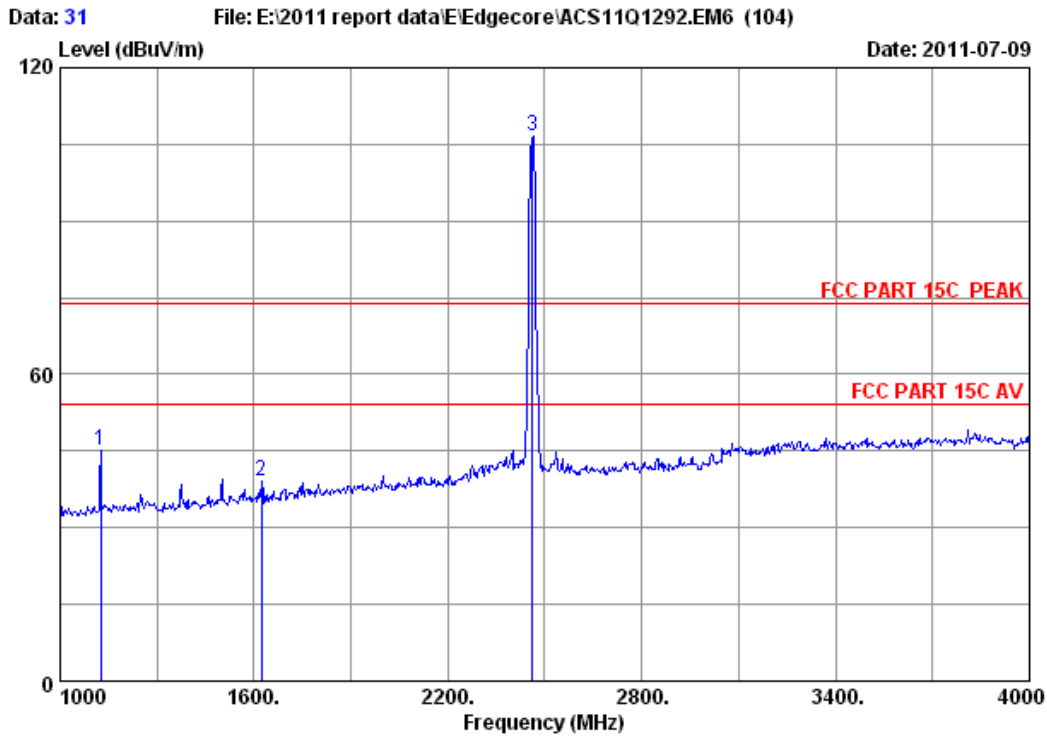
Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWGBR14-N2



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	12.23	35.36	43.24	54.89	74.00	19.11	Peak
2	4874.000	34.78	12.23	35.36	32.95	44.60	54.00	9.40	Average

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

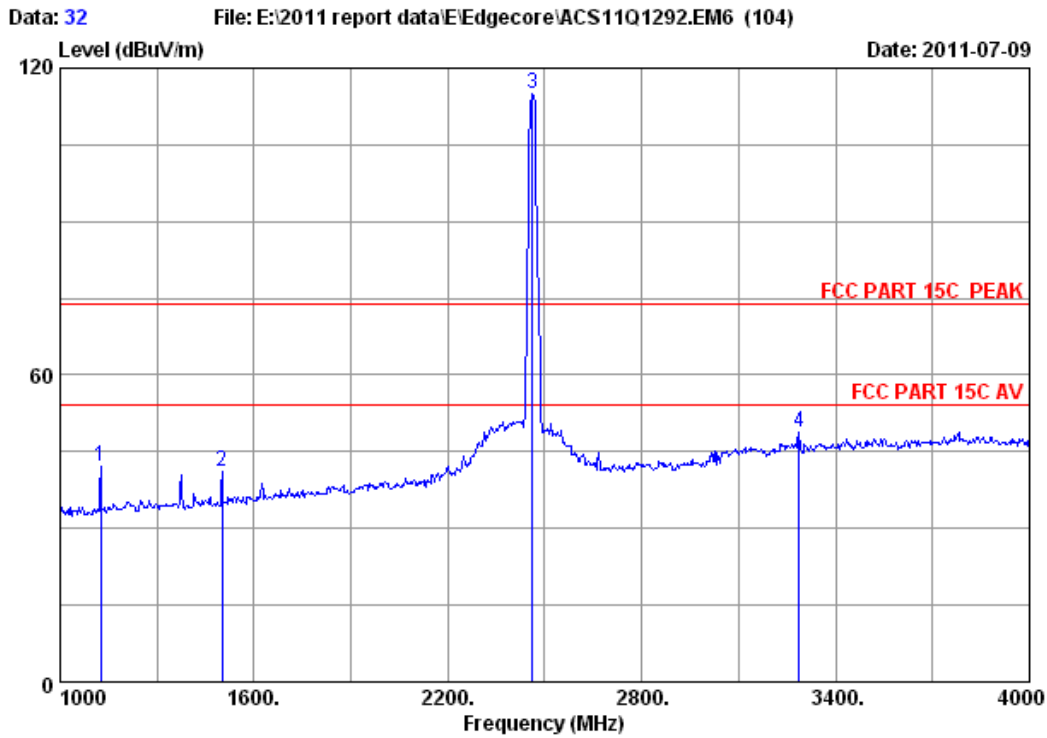


Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	50.91	45.24	74.00	28.76	Peak
2	1624.000	26.43	7.15	36.26	41.90	39.22	74.00	34.78	Peak
3	2462.000	28.55	8.76	36.02	105.22	106.51	74.00	-32.51	Peak

Remarks:

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

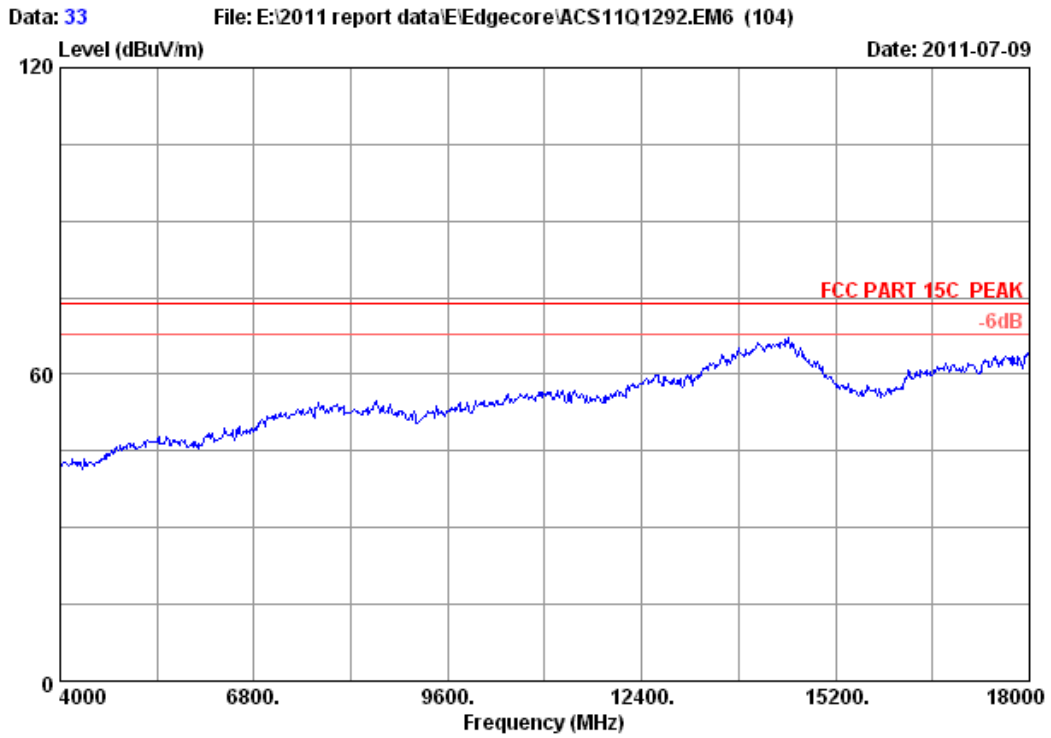


Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

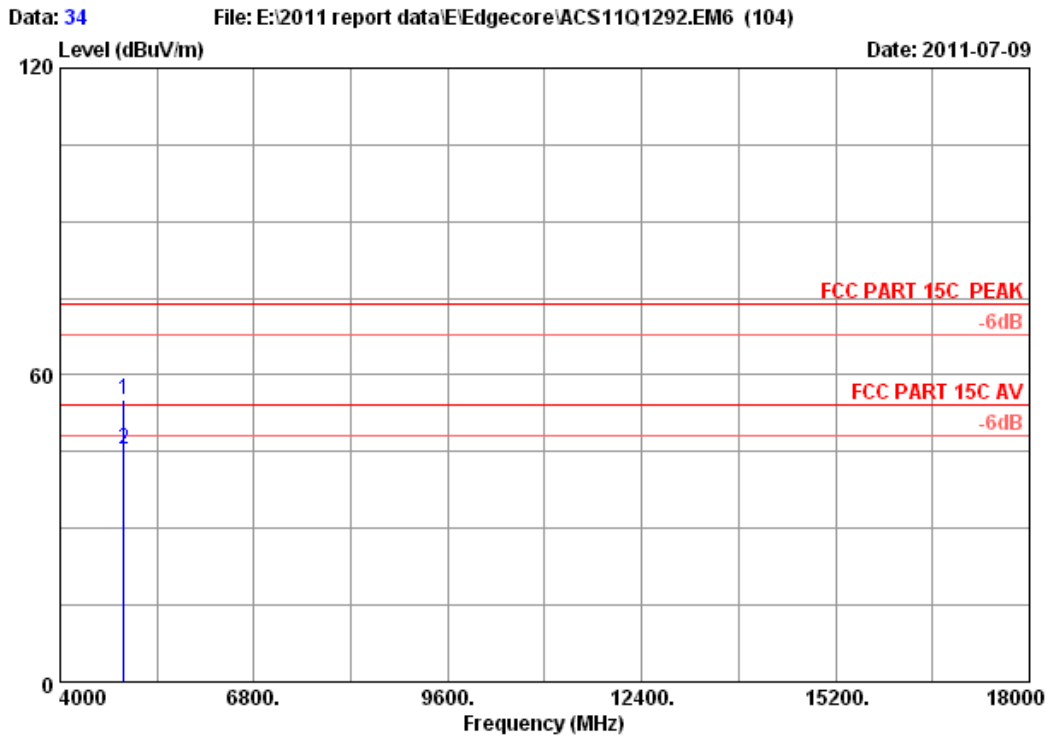
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	47.71	42.04	74.00	31.96	Peak
2	1501.000	25.90	6.77	36.57	44.93	41.03	74.00	32.97	Peak
3	2462.000	28.55	8.76	36.02	113.78	115.07	74.00	-41.07	Peak
4	3286.000	30.97	10.26	35.79	43.41	48.85	74.00	25.15	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 33
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWGBR14-N2

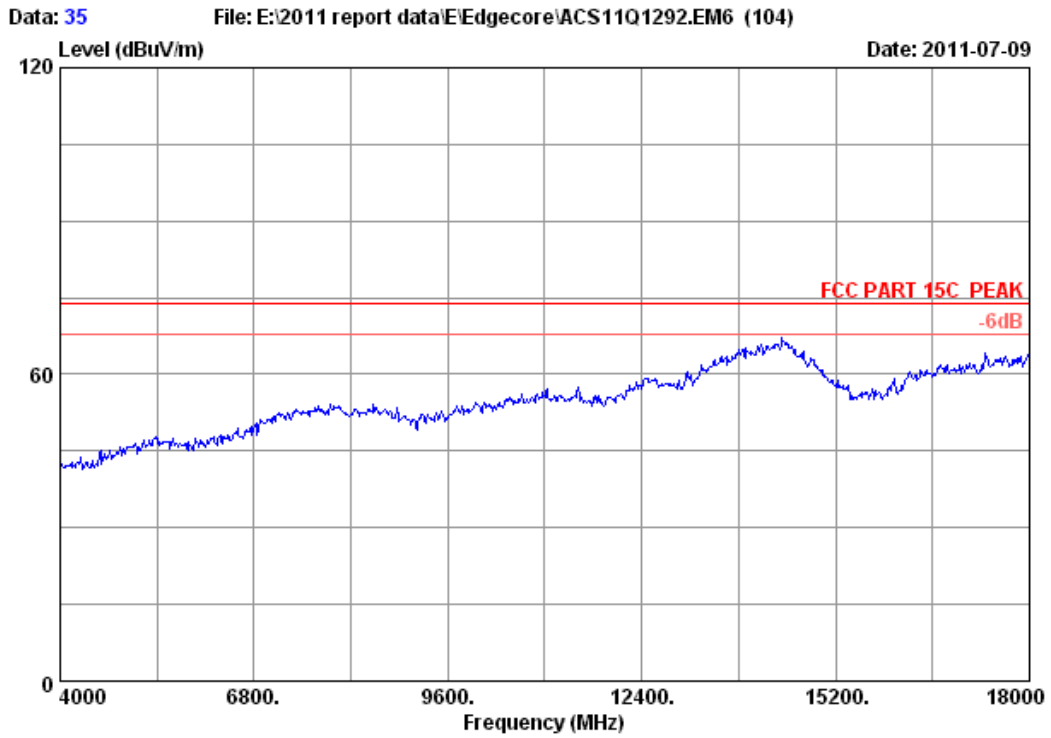


Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

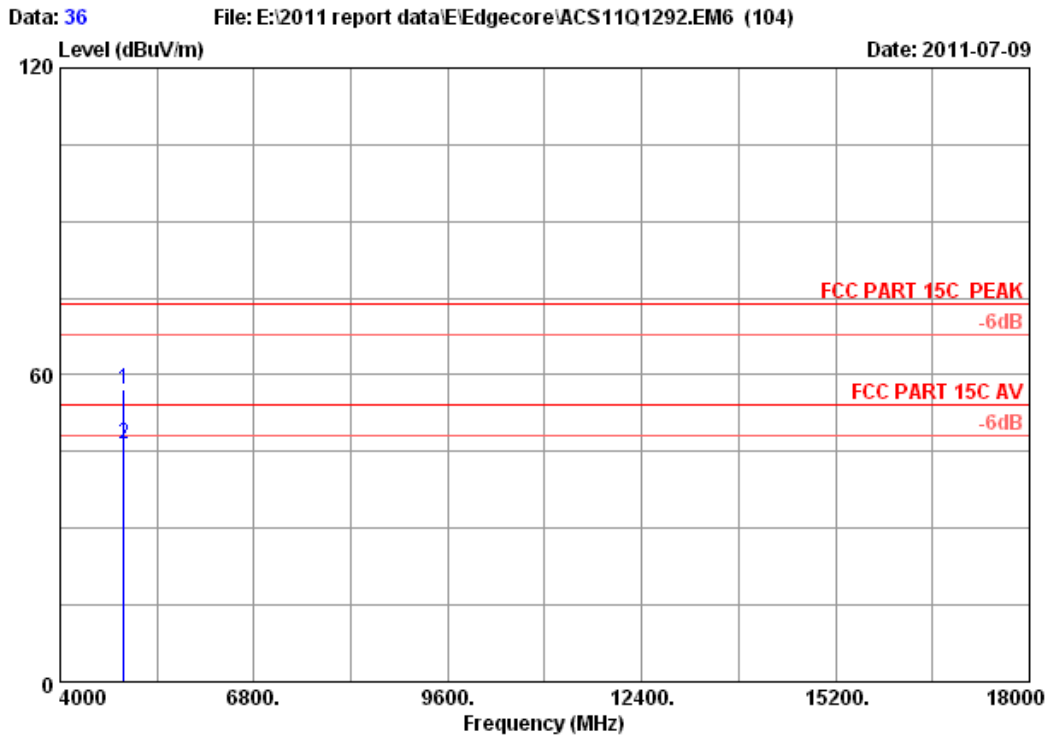
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.09	12.58	35.34	42.98	55.31	74.00	18.69	Peak
2	4924.000	35.09	12.58	35.34	33.12	45.45	54.00	8.55	Average

Remarks:

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



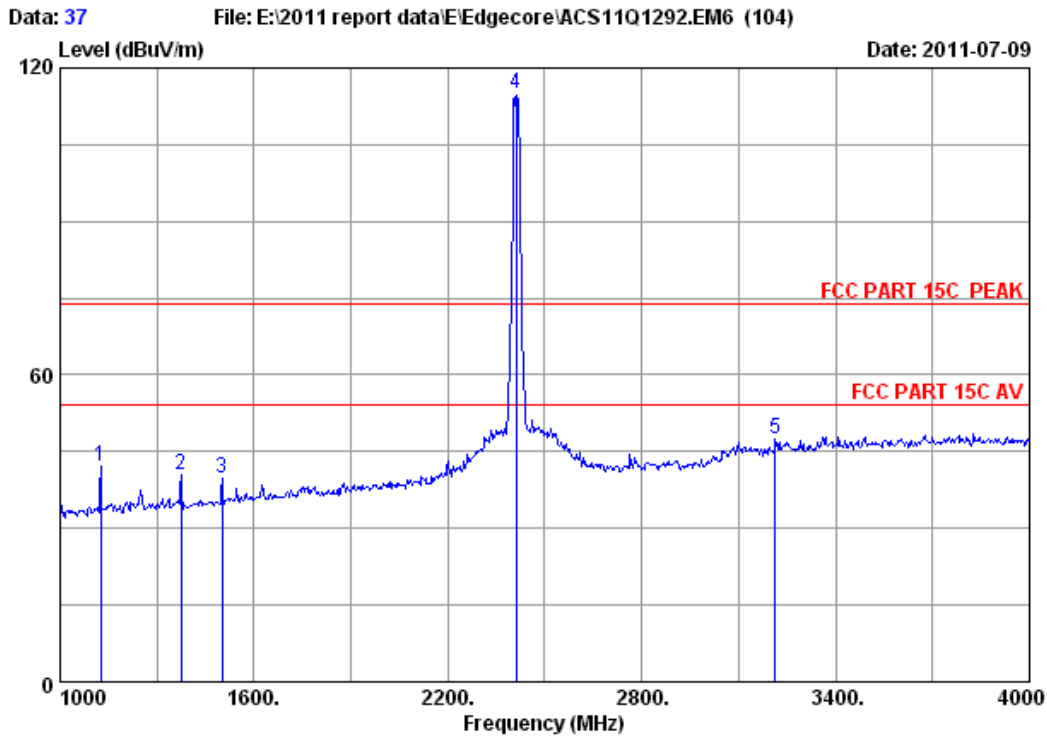
Site no. : 3m Chamber Data no. : 35
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWGBR14-N2



Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.09	12.58	35.34	44.98	57.31	74.00	16.69	Peak
2	4924.000	35.09	12.58	35.34	34.01	46.34	54.00	7.66	Average

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

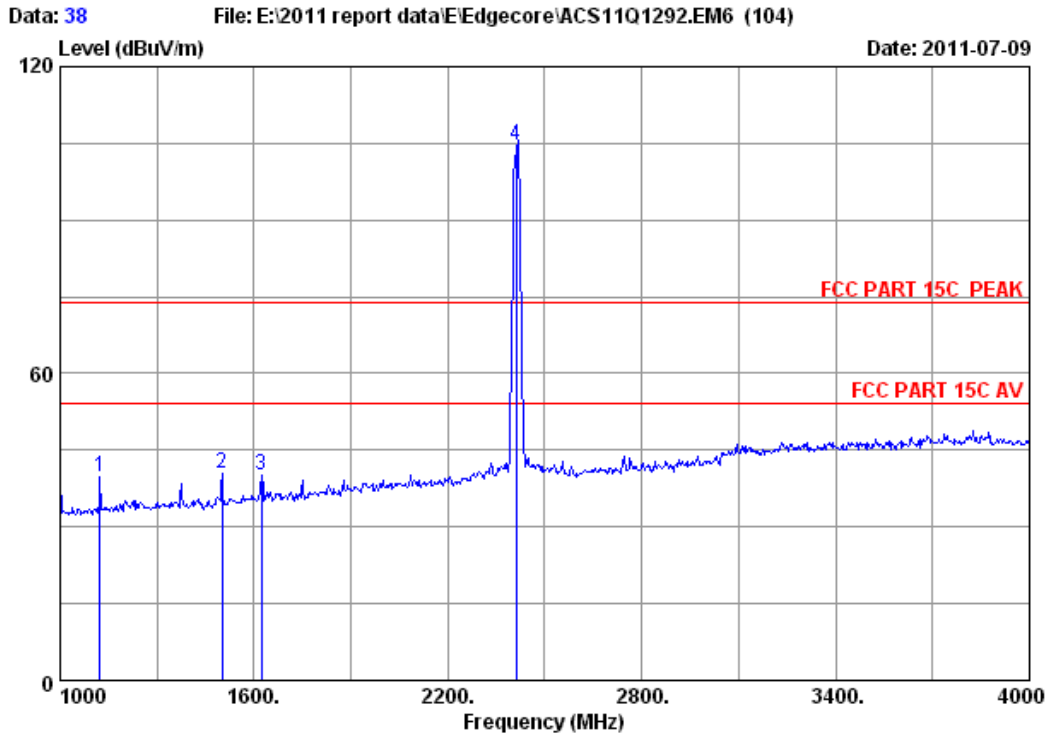


Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	47.64	41.97	74.00	32.03	Peak
2	1375.000	25.73	6.43	36.40	44.78	40.54	74.00	33.46	Peak
3	1501.000	25.90	6.77	36.57	43.72	39.82	74.00	34.18	Peak
4	2412.000	28.48	8.60	35.95	113.72	114.85	74.00	-40.85	Peak
5	3214.000	30.78	9.88	35.86	42.60	47.40	74.00	26.60	Peak

Remarks:

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

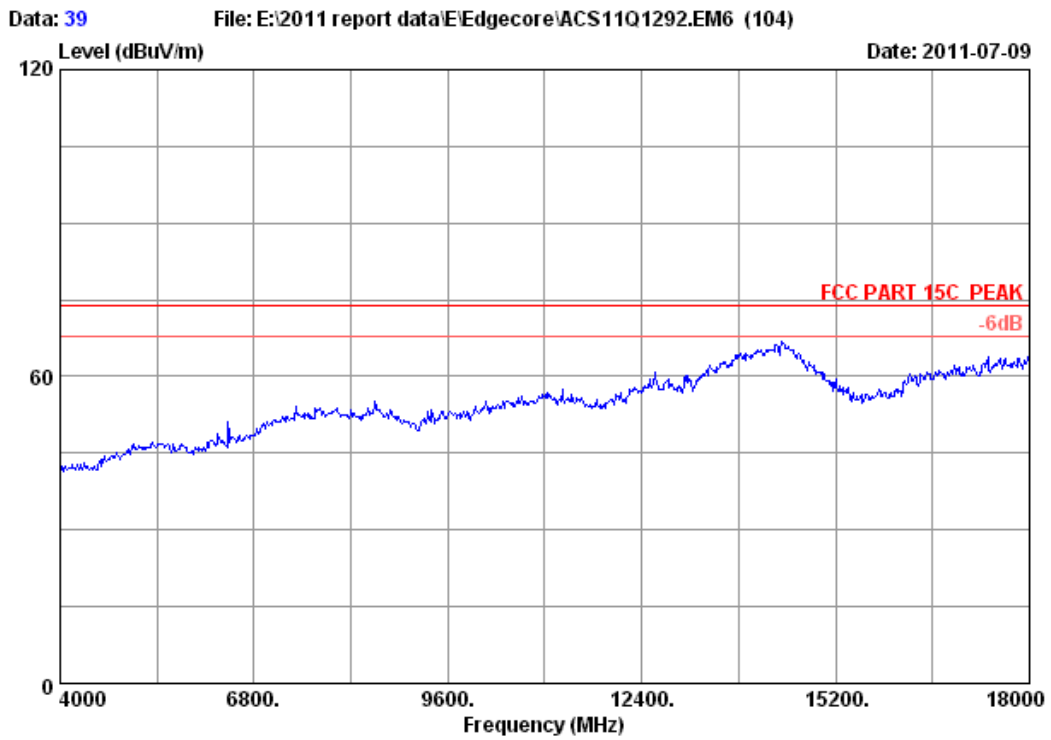


Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

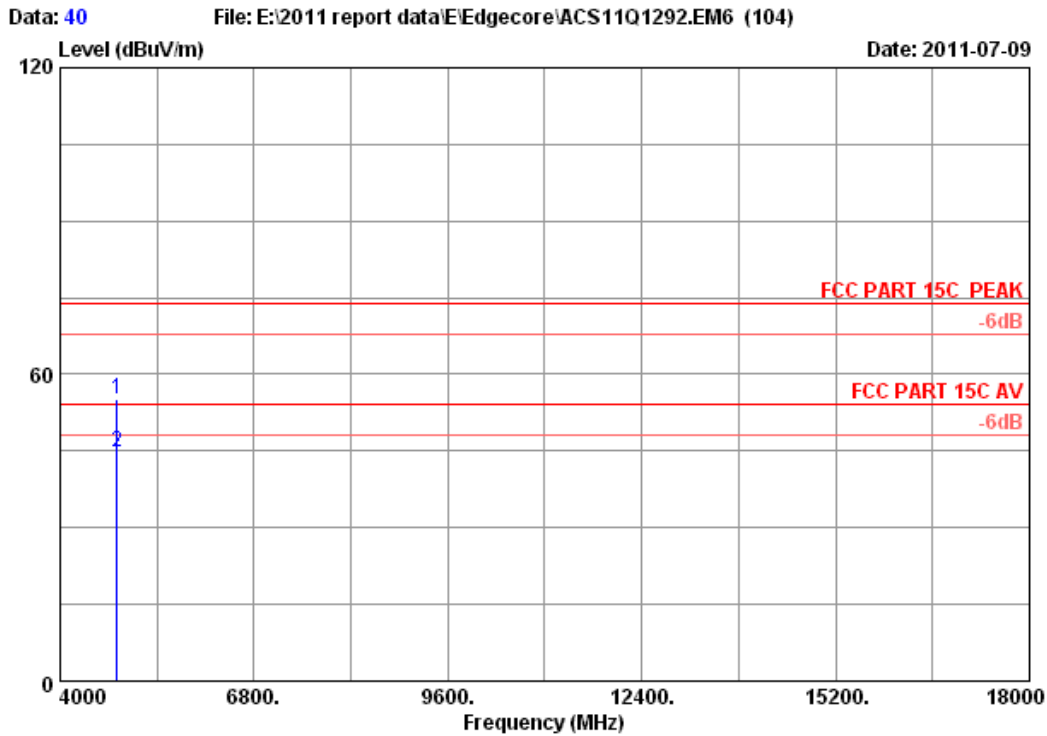
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1123.000	25.37	6.15	37.19	45.47	39.80	74.00	34.20	Peak
2	1501.000	25.90	6.77	36.57	44.24	40.34	74.00	33.66	Peak
3	1624.000	26.43	7.15	36.26	42.96	40.28	74.00	33.72	Peak
4	2412.000	28.48	8.60	35.95	103.44	104.57	74.00	-30.57	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
M/N : SMCWGBR14-N2

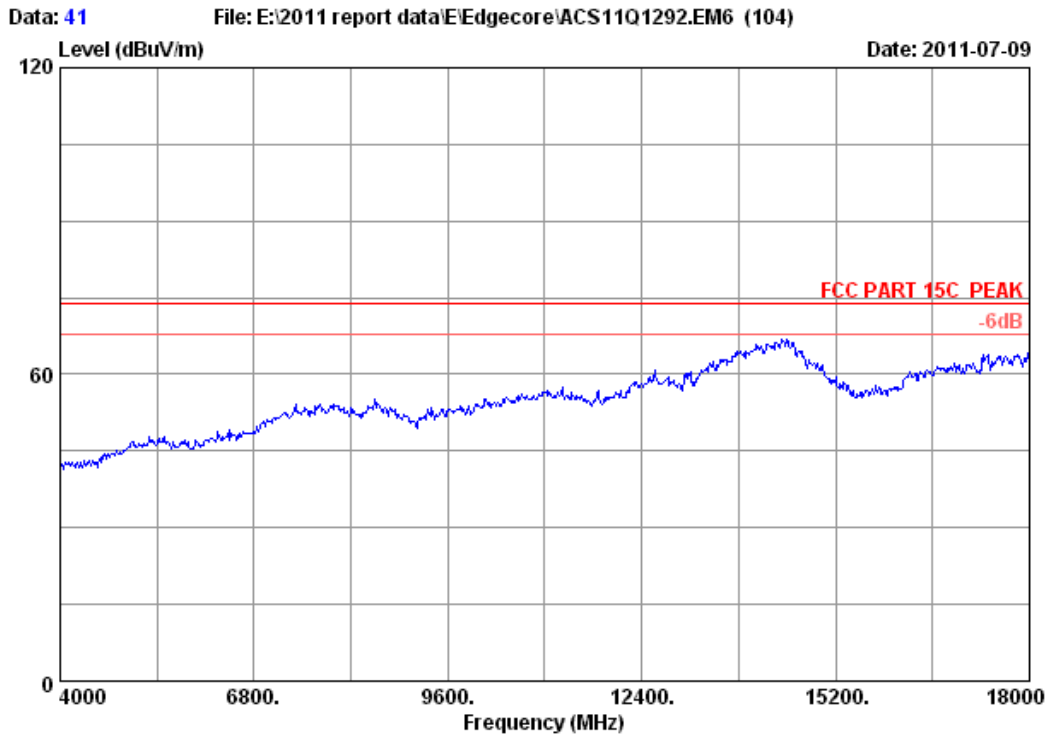


Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

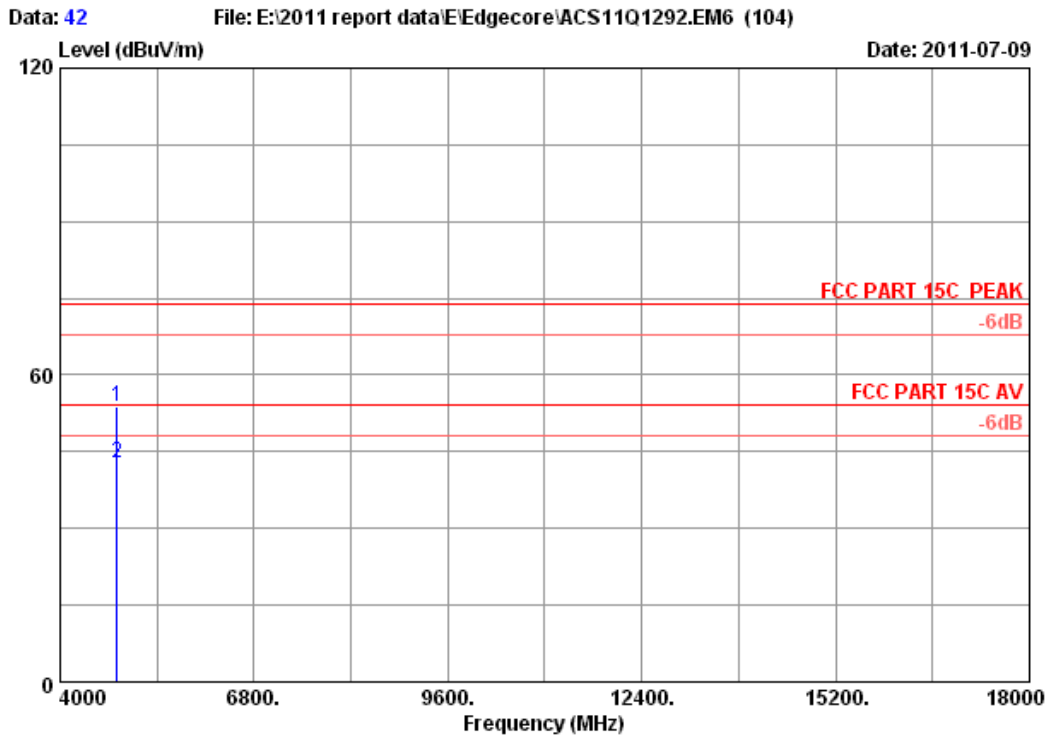
	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.000	34.47	12.58	35.25	43.27	55.07	74.00	18.93	Peak
2	4824.000	34.47	12.58	35.25	32.84	44.64	54.00	9.36	Average

Remarks:

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



Site no. : 3m Chamber Data no. : 41
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
M/N : SMCWGBR14-N2

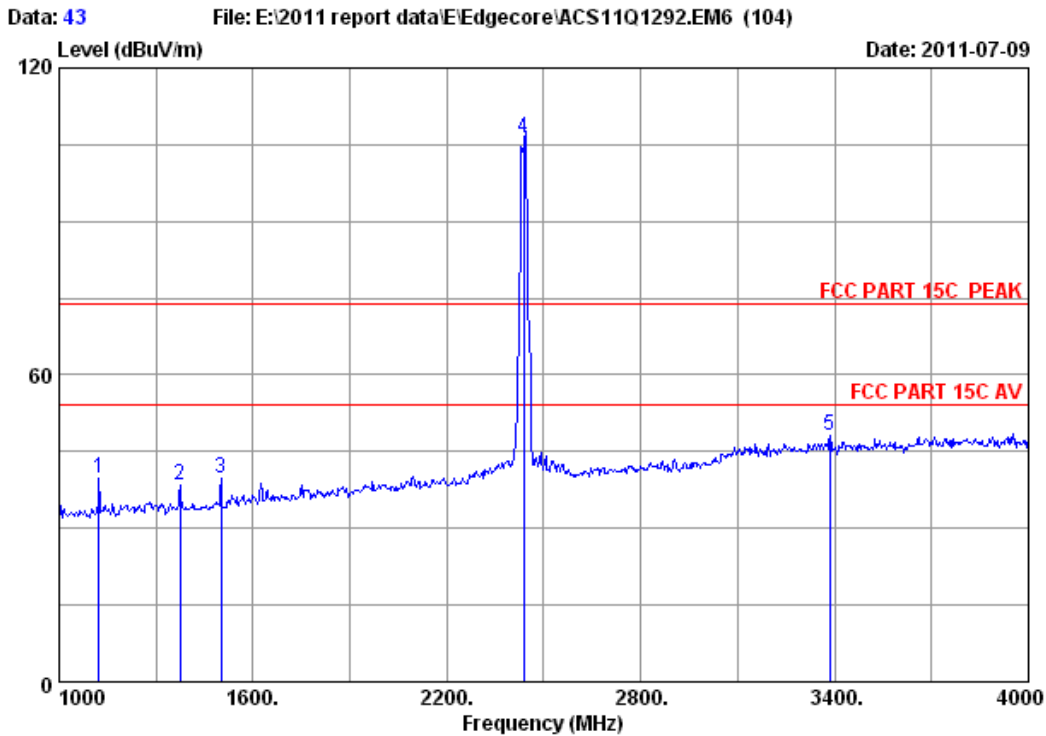


Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.000	34.47	12.58	35.25	42.09	53.89	74.00	20.11	Peak
2	4824.000	34.47	12.58	35.25	31.03	42.83	54.00	11.17	Average

Remarks:

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

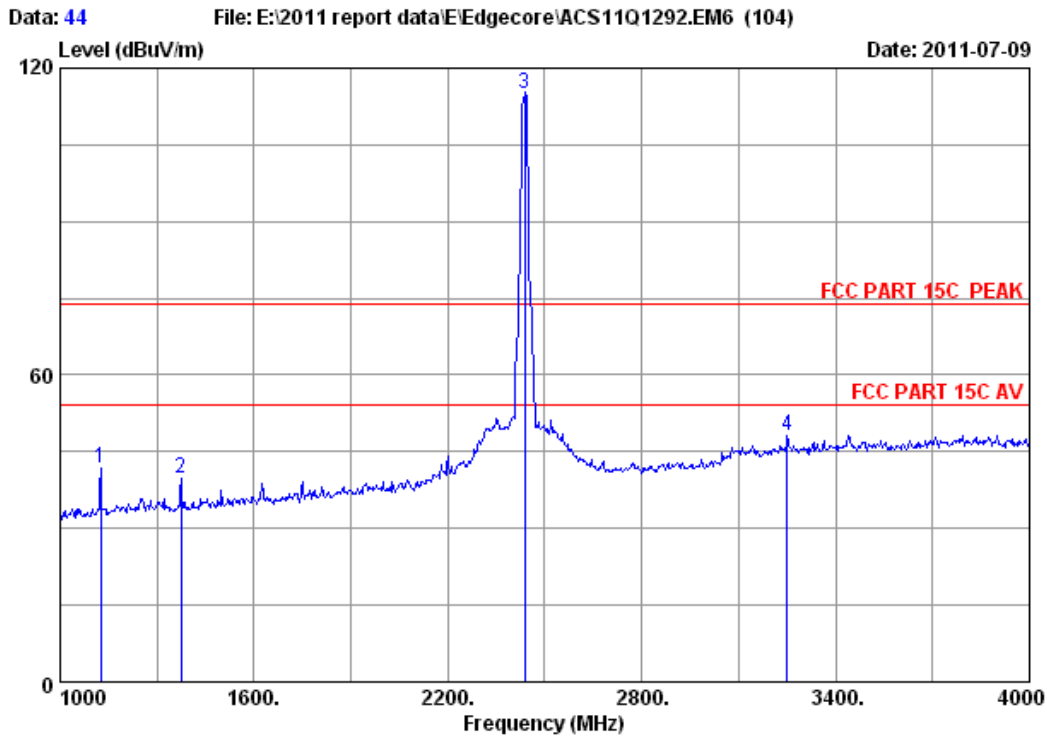


Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1123.000	25.37	6.15	37.19	45.41	39.74	74.00	34.26	Peak
2	1375.000	25.73	6.43	36.40	42.55	38.31	74.00	35.69	Peak
3	1501.000	25.90	6.77	36.57	43.78	39.88	74.00	34.12	Peak
4	2437.000	28.53	8.60	36.06	105.35	106.42	74.00	-32.42	Peak
5	3385.000	31.26	10.39	35.53	42.07	48.19	74.00	25.81	Peak

Remarks:

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

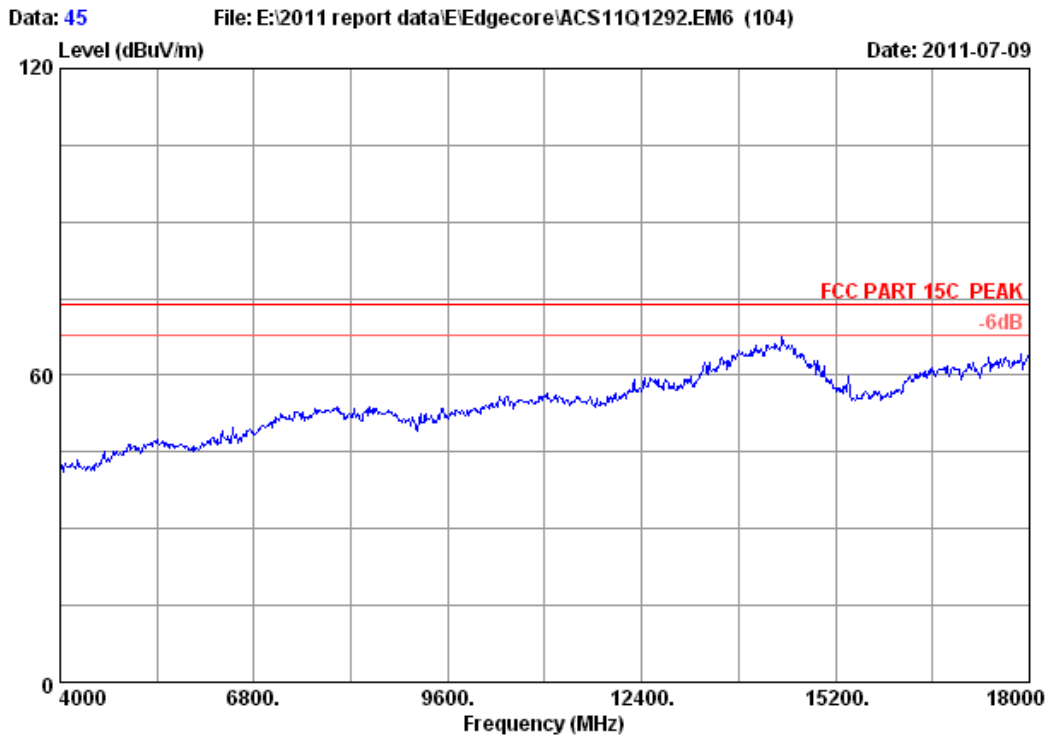


Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : SMCWGBR14-N2

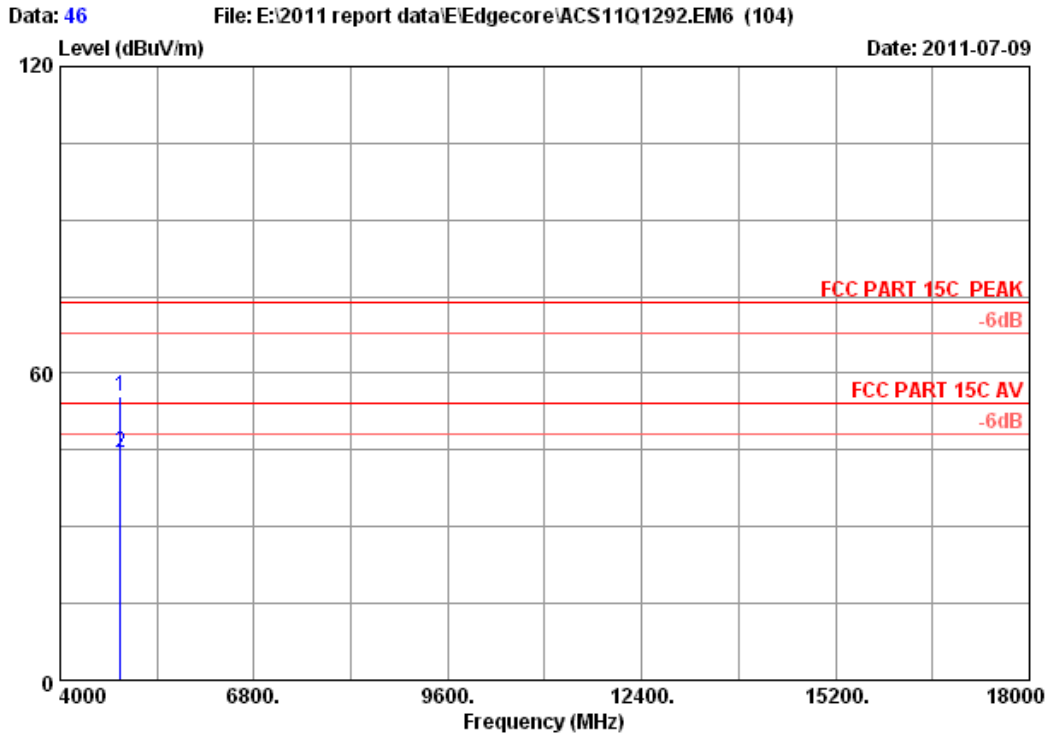
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	47.35	41.68	74.00	32.32	Peak
2	1375.000	25.73	6.43	36.40	43.97	39.73	74.00	34.27	Peak
3	2437.000	28.53	8.60	36.06	113.89	114.96	74.00	-40.96	Peak
4	3250.000	30.88	10.19	35.68	42.87	48.26	74.00	25.74	Peak

Remarks:

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



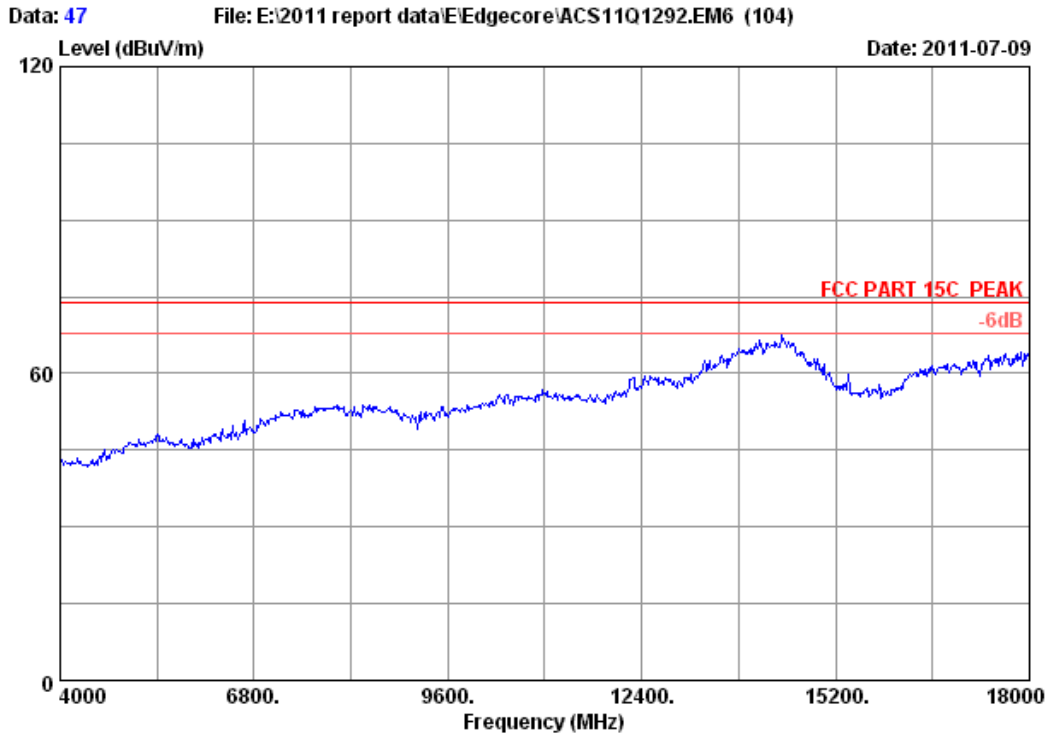
Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
M/N : SMCWGBR14-N2



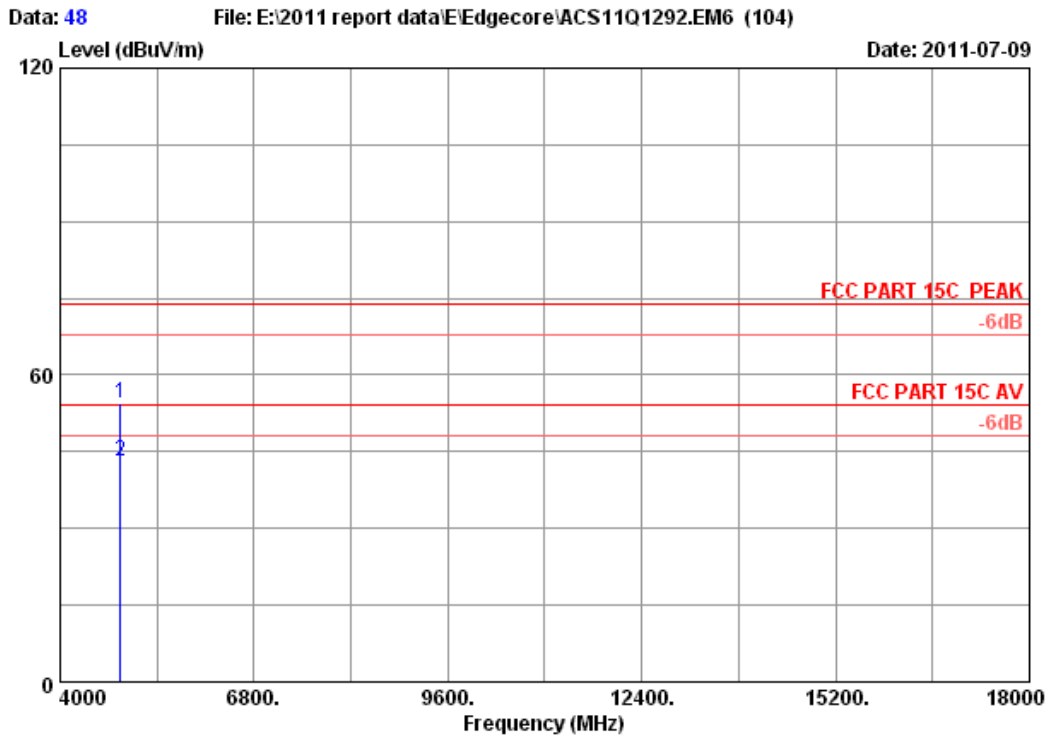
Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : SMCWGBR14-N2

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1 4874.000	34.78	12.23	35.36	43.95	55.60	74.00	18.40	Peak	
2 4874.000	34.78	12.23	35.36	32.97	44.62	54.00	9.38	Average	

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



Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
M/N : SMCWGBR14-N2

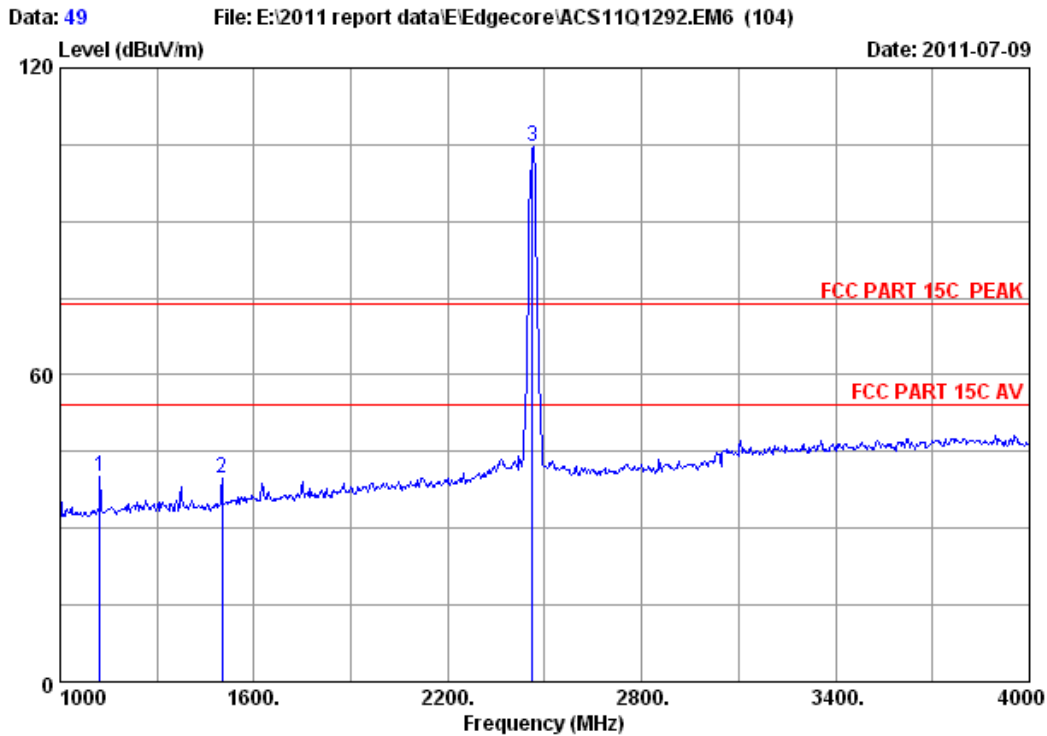


Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : SMCWGBR14-N2

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.000	34.78	12.23	35.36	42.67	54.32	74.00	19.68	Peak
2	4874.000	34.78	12.23	35.36	31.56	43.21	54.00	10.79	Average

Remarks:

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

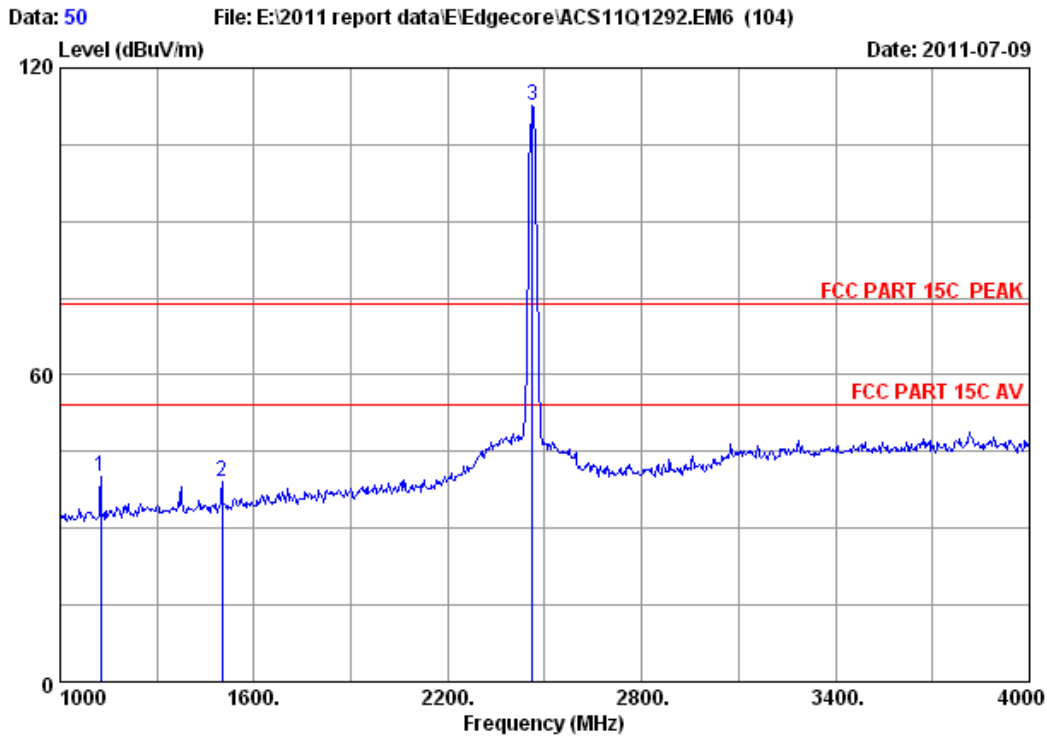


Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1123.000	25.37	6.15	37.19	45.62	39.95	74.00	34.05	Peak
2	1501.000	25.90	6.77	36.57	43.83	39.93	74.00	34.07	Peak
3	2462.000	28.55	8.76	36.02	103.23	104.52	74.00	-30.52	Peak

Remarks:

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

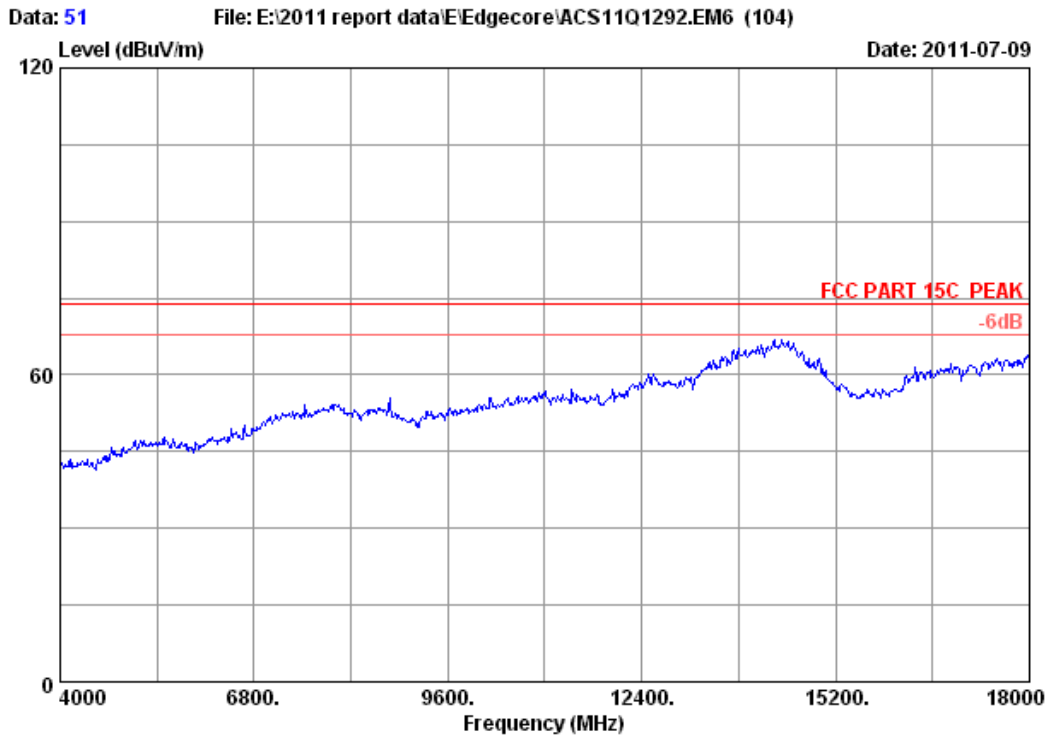


Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

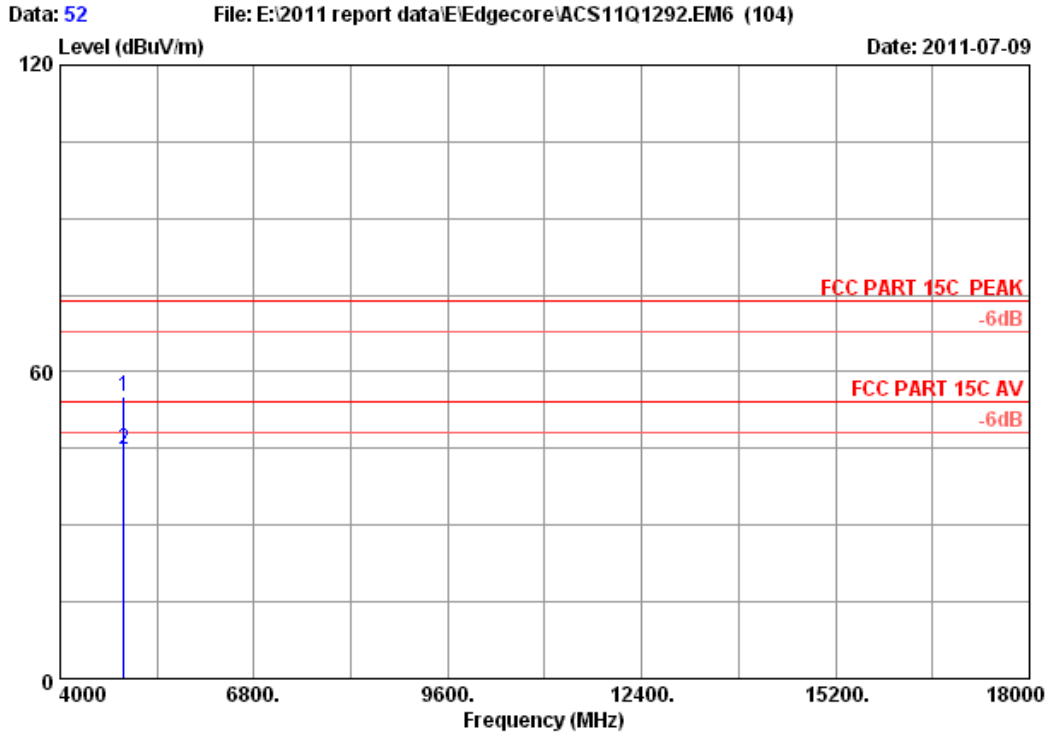
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	45.62	39.95	74.00	34.05	Peak
2	1501.000	25.90	6.77	36.57	42.98	39.08	74.00	34.92	Peak
3	2462.000	28.55	8.76	36.02	111.46	112.75	74.00	-38.75	Peak

Remarks:

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



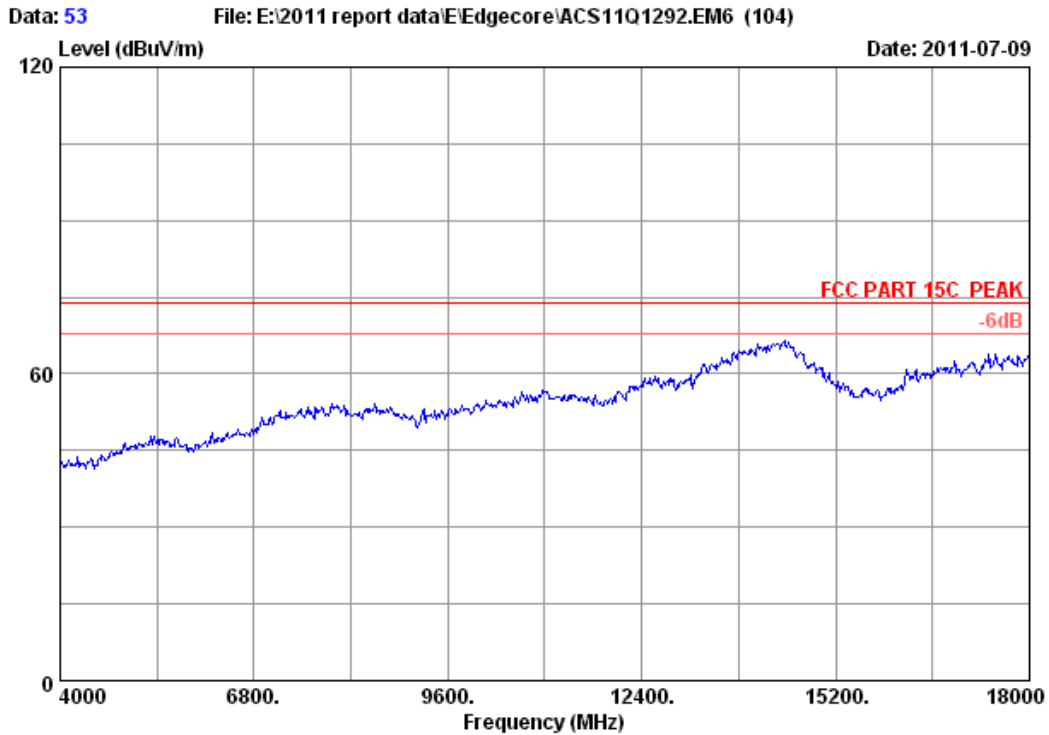
Site no. : 3m Chamber Data no. : 51
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
M/N : SMCWGBR14-N2



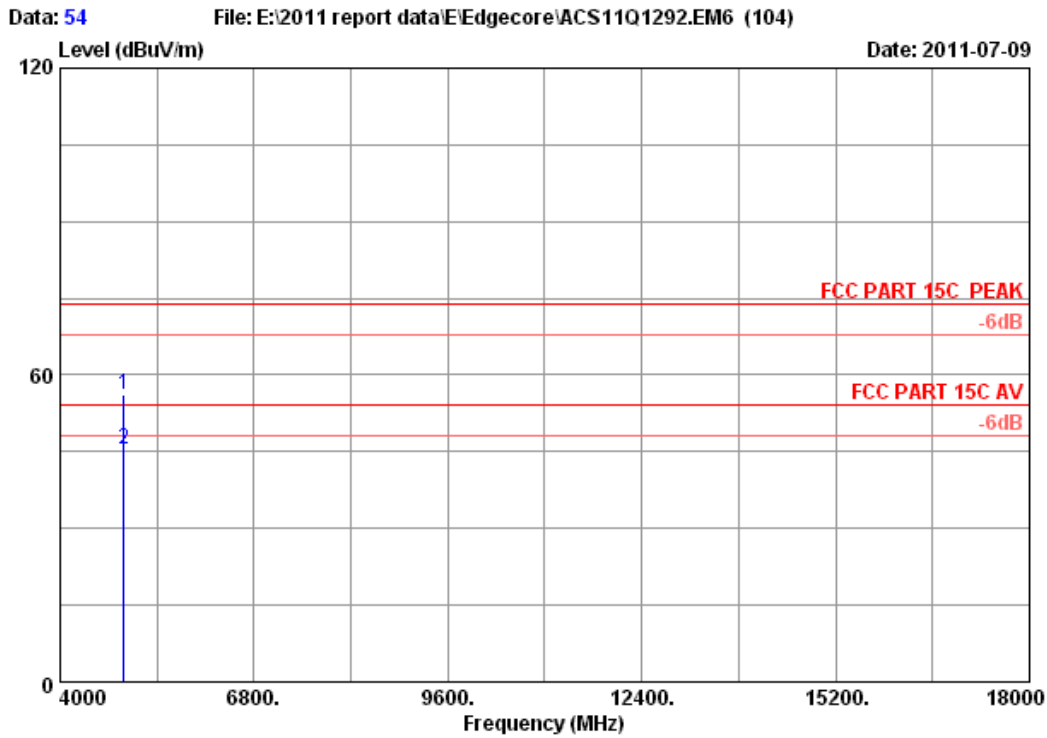
Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.09	12.58	35.34	42.96	55.29	74.00	18.71	Peak
2	4924.000	35.09	12.58	35.34	32.48	44.81	54.00	9.19	Average

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



Site no. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
M/N : SMCWGBR14-N2

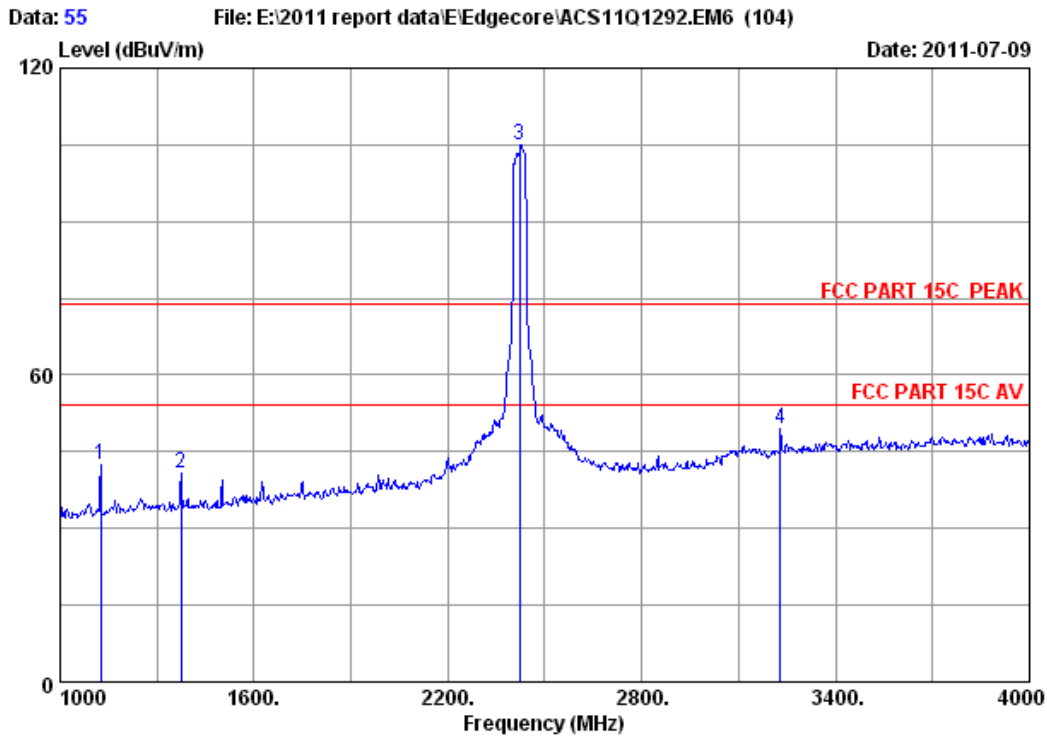


Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4924.000	35.09	12.58	35.34	43.96	56.29	74.00	17.71	Peak
2	4924.000	35.09	12.58	35.34	33.24	45.57	54.00	8.43	Average

Remarks:

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

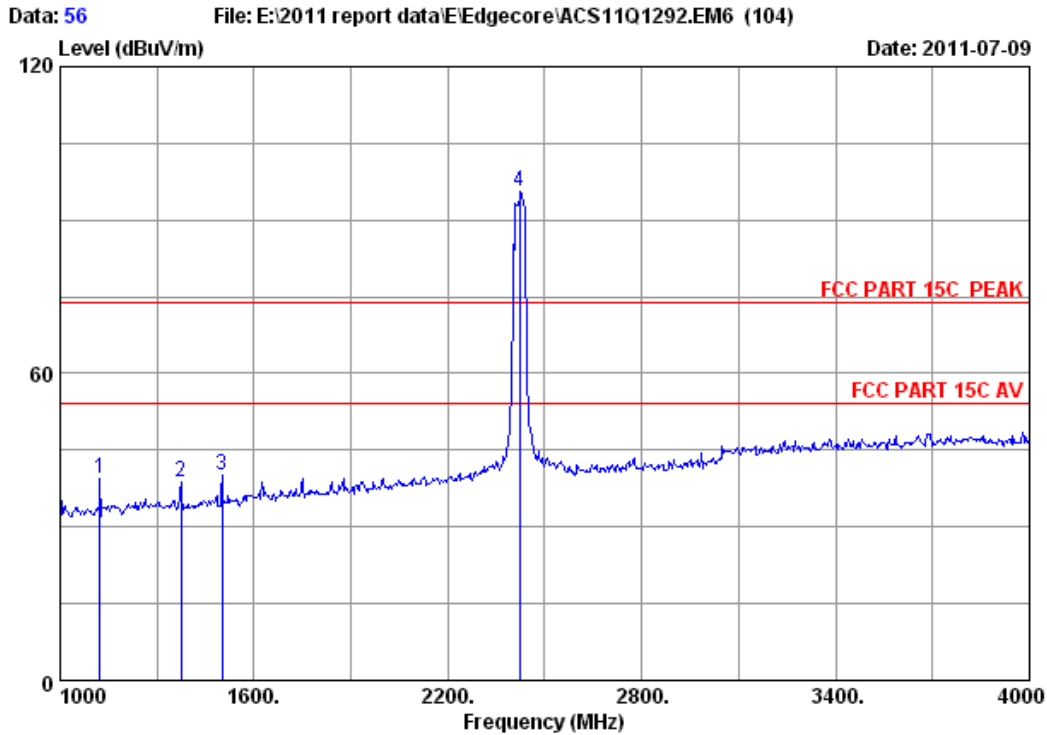


Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	48.18	42.51	74.00	31.49	Peak
2	1375.000	25.73	6.43	36.40	45.18	40.94	74.00	33.06	Peak
3	2422.000	28.50	8.60	36.01	103.98	105.07	74.00	-31.07	Peak
4	3229.000	30.83	10.04	35.77	44.23	49.33	74.00	24.67	Peak

Remarks:

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

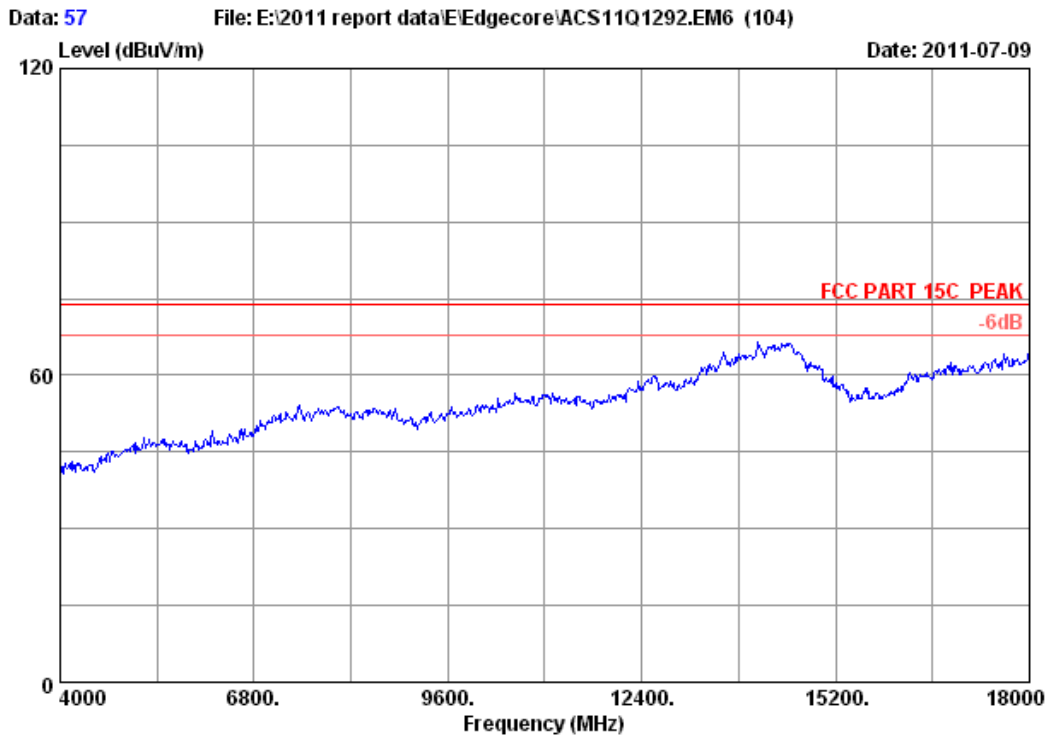


Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : SMCWGBR14-N2

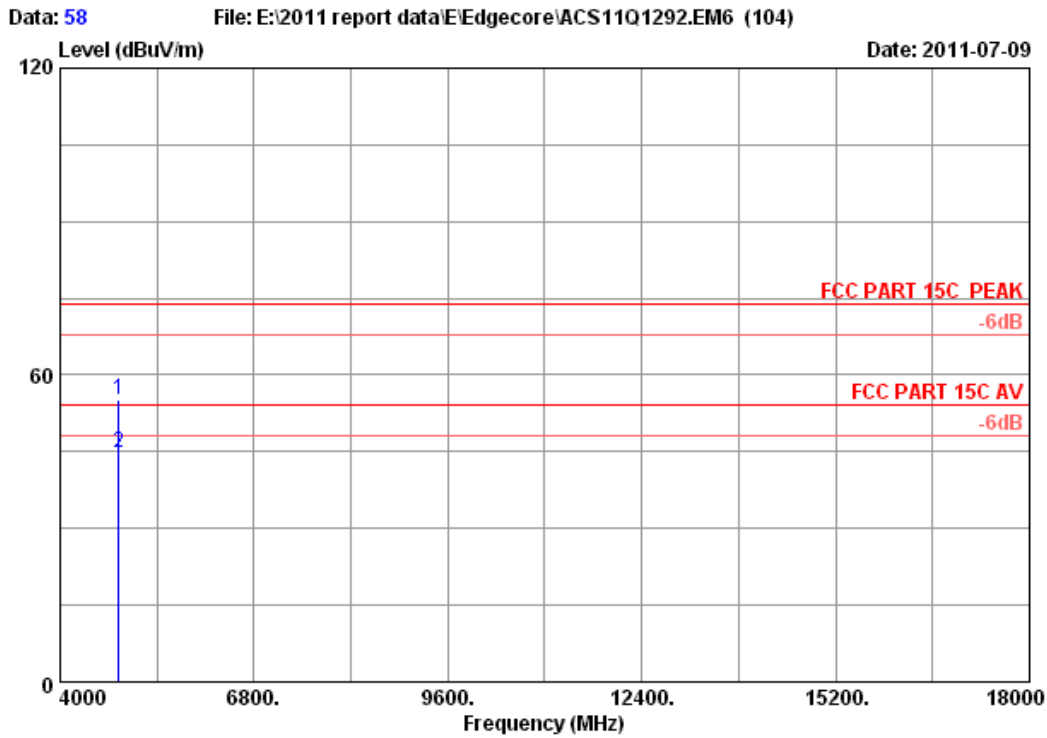
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1123.000	25.37	6.15	37.19	45.27	39.60	74.00	34.40	Peak
2	1375.000	25.73	6.43	36.40	42.96	38.72	74.00	35.28	Peak
3	1501.000	25.90	6.77	36.57	43.98	40.08	74.00	33.92	Peak
4	2422.000	28.50	8.60	36.01	94.43	95.52	74.00	-21.52	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 57
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
M/N : SMCWGBR14-N2

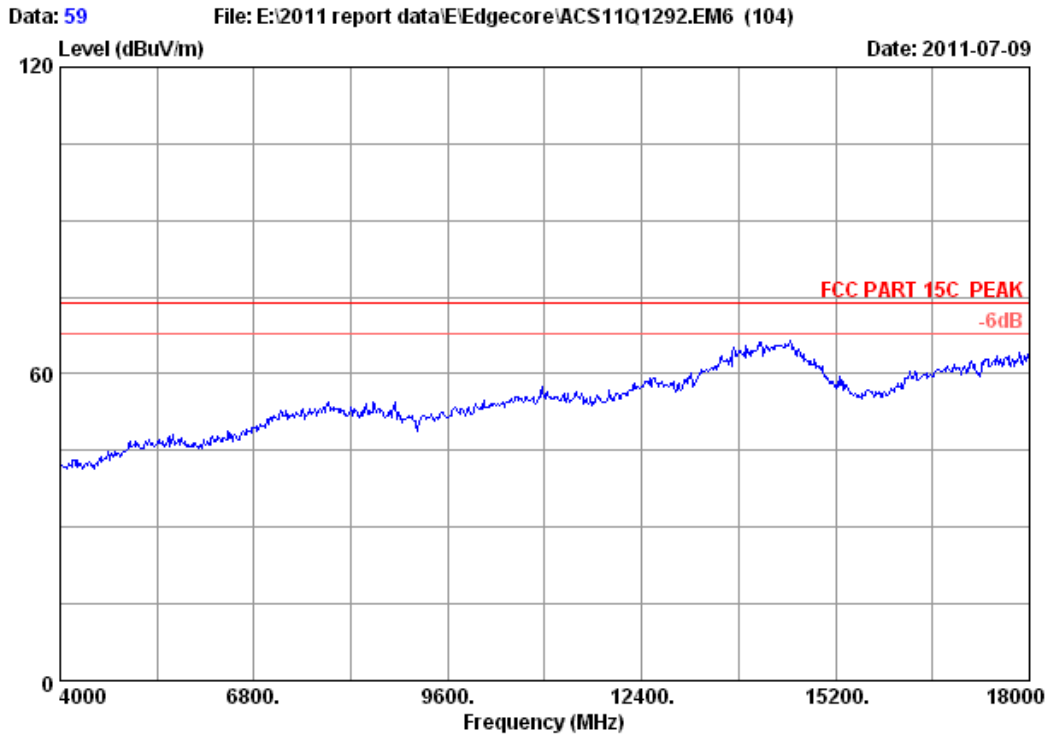


Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : SMCWGBR14-N2

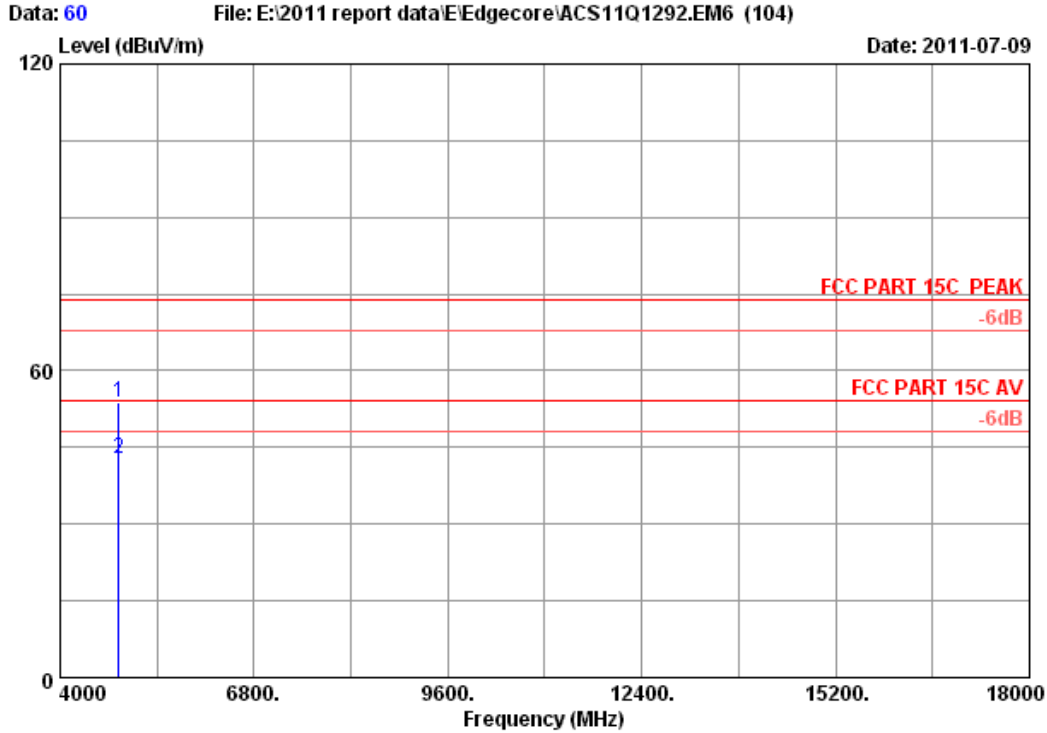
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4844.000	34.57	12.45	35.25	43.28	55.05	74.00	18.95	Peak
2	4844.000	34.57	12.45	35.25	33.14	44.91	54.00	9.09	Average

Remarks:

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



Site no. : 3m Chamber Data no. : 59
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
M/N : SMCWGBR14-N2

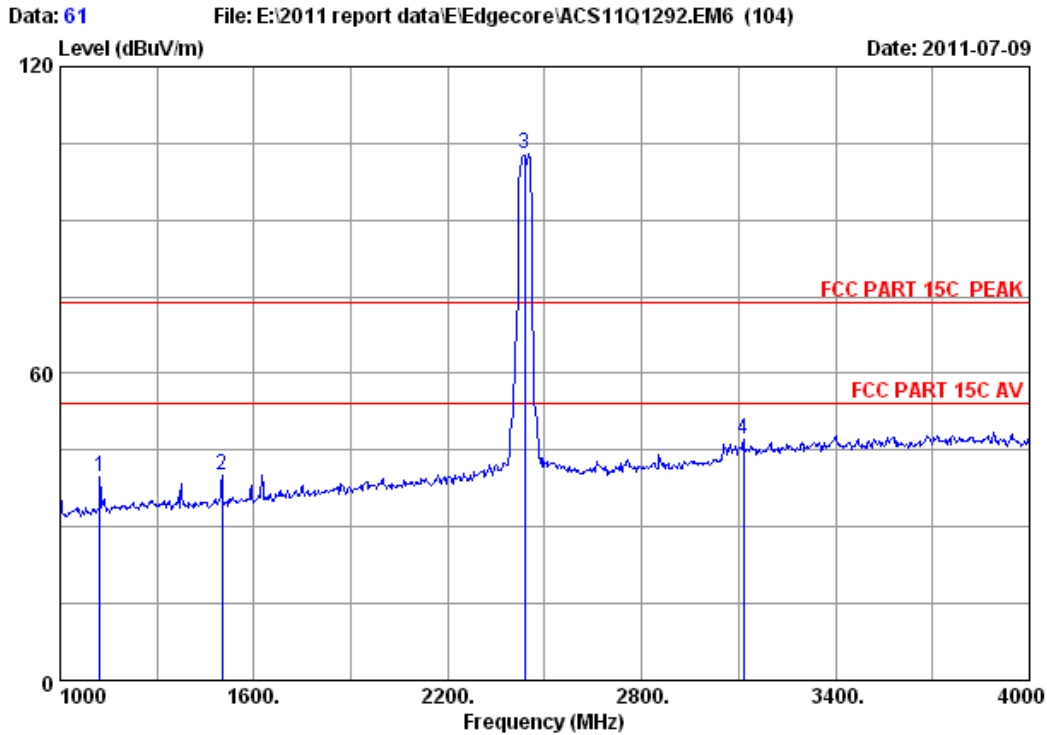


Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	4844.000	34.57	12.45	35.25	42.04	53.81	74.00	20.19	Peak
2	4844.000	34.57	12.45	35.25	31.05	42.82	54.00	11.18	Average

Remarks:

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

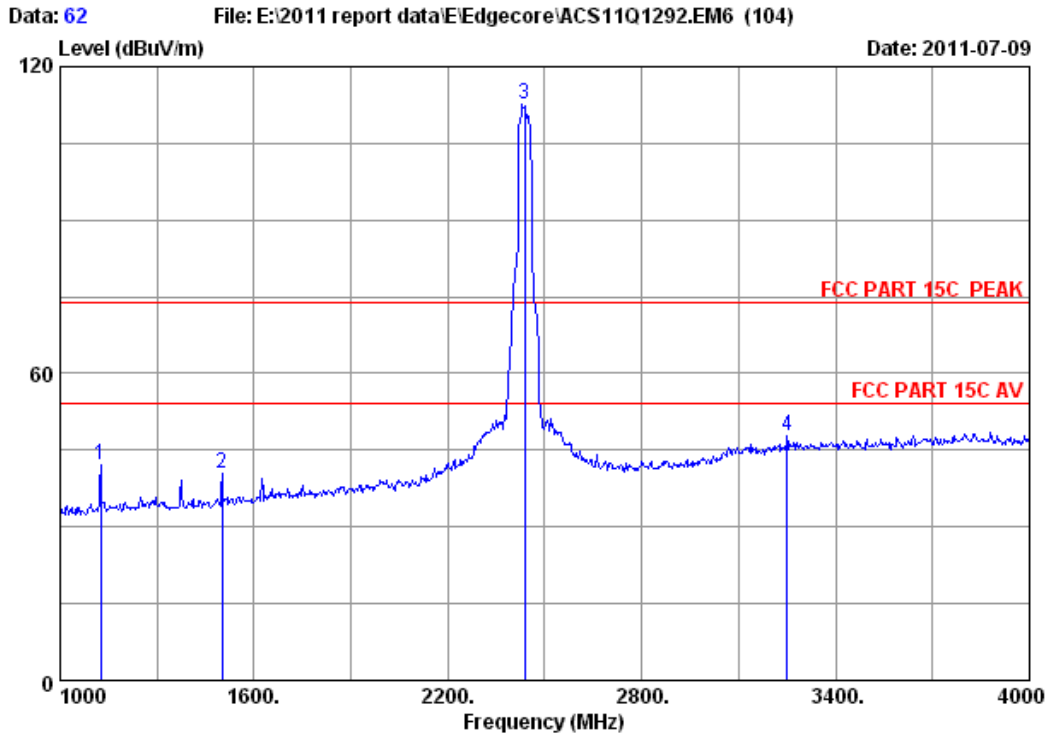


Site no. : 3m Chamber Data no. : 61
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1123.000	25.37	6.15	37.19	45.41	39.74	74.00	34.26	Peak
2	1501.000	25.90	6.77	36.57	44.00	40.10	74.00	33.90	Peak
3	2437.000	28.53	8.60	36.06	101.88	102.95	74.00	-28.95	Peak
4	3115.000	30.49	9.98	35.73	42.27	47.01	74.00	26.99	Peak

Remarks:

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

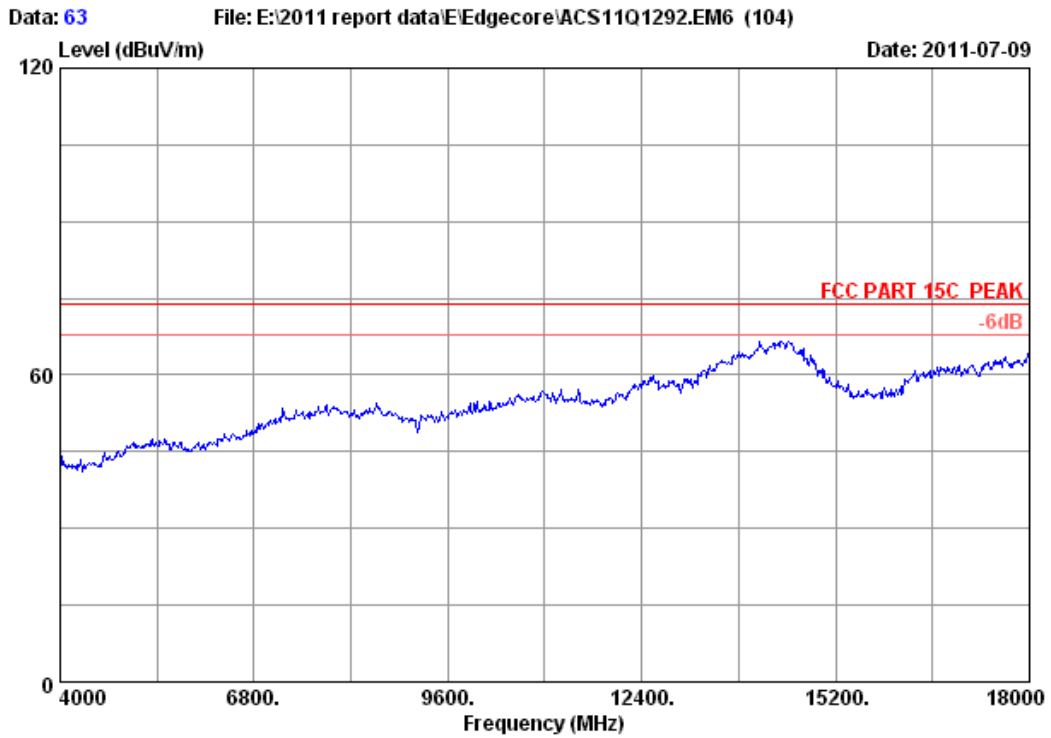


Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
 M/N : SMCWGBR14-N2

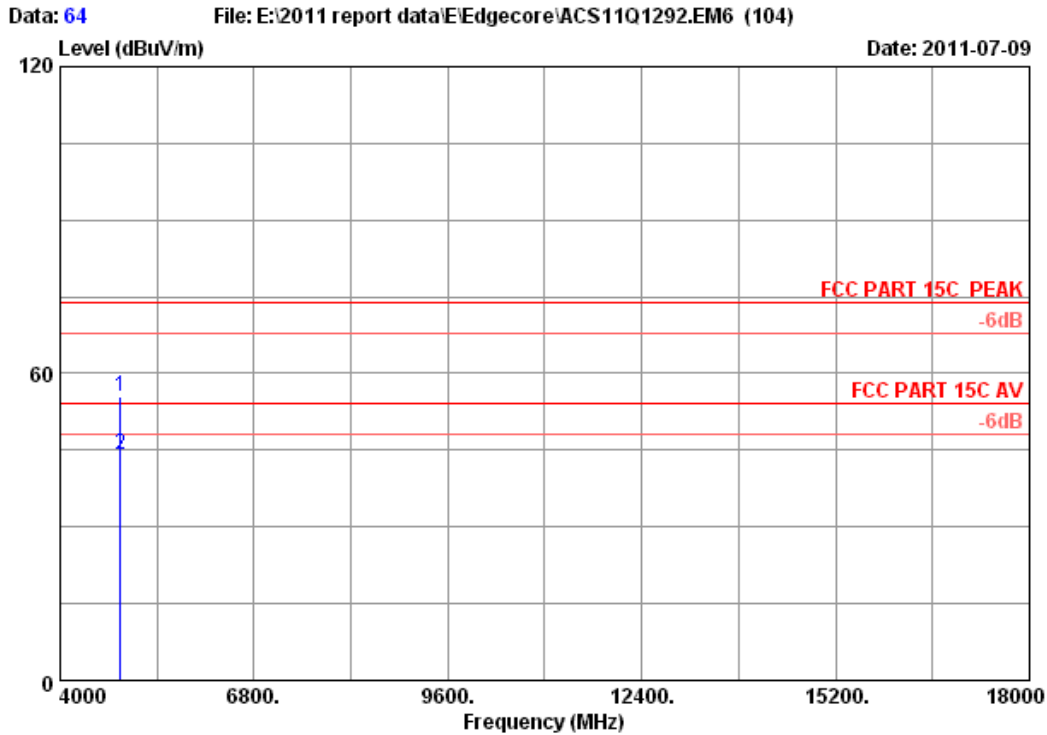
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	47.82	42.15	74.00	31.85	Peak
2	1501.000	25.90	6.77	36.57	44.24	40.34	74.00	33.66	Peak
3	2437.000	28.53	8.60	36.06	111.45	112.52	74.00	-38.52	Peak
4	3250.000	30.88	10.19	35.68	42.54	47.93	74.00	26.07	Peak

Remarks:

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



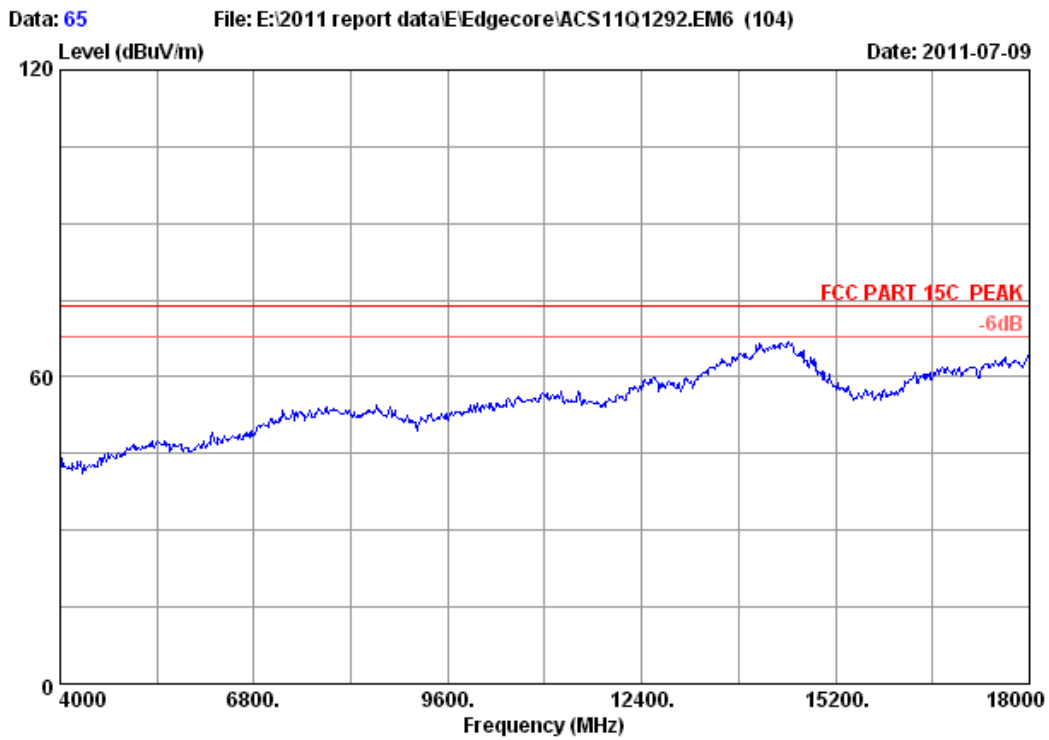
Site no. : 3m Chamber Data no. : 63
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
M/N : SMCWGBR14-N2



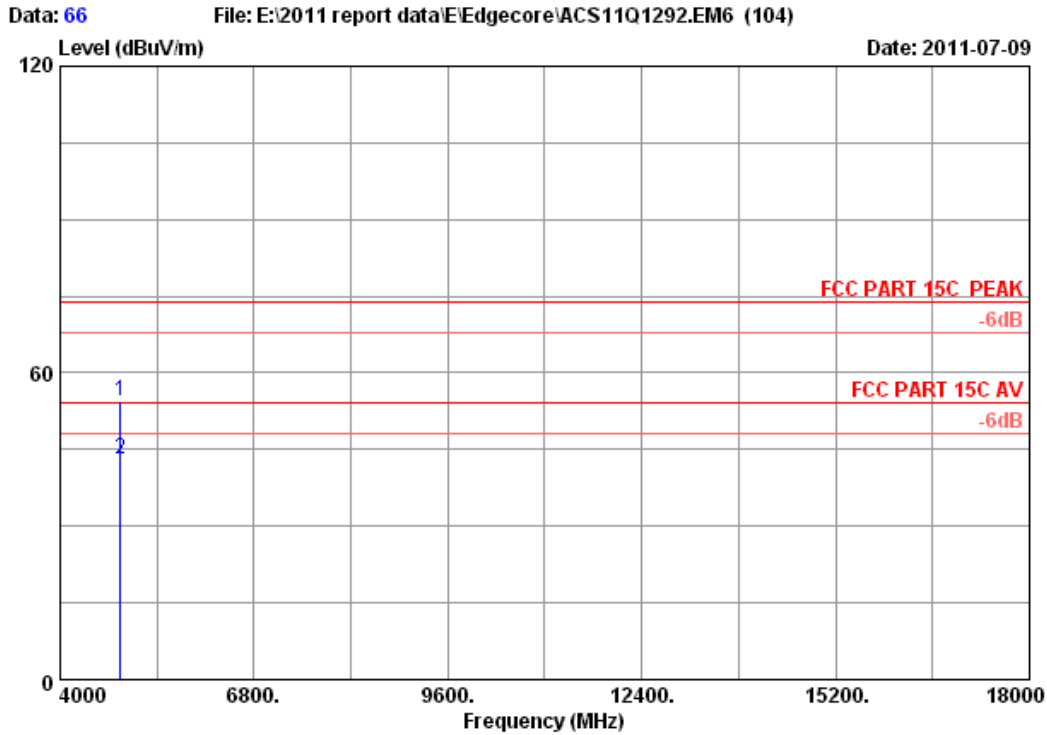
Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	12.23	35.36	43.88	55.53	74.00	18.47	Peak
2	4874.000	34.78	12.23	35.36	32.57	44.22	54.00	9.78	Average

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



Site no. : 3m Chamber Data no. : 65
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
M/N : SMCWGBR14-N2

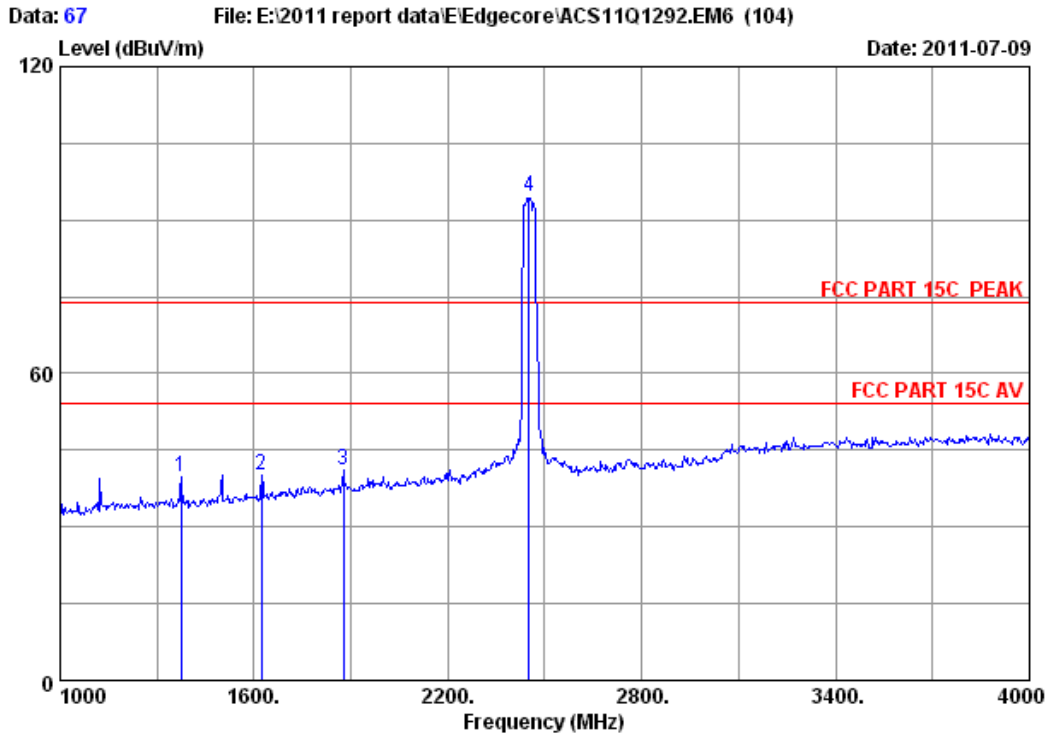


Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	12.23	35.36	42.97	54.62	74.00	19.38	Peak
2	4874.000	34.78	12.23	35.36	31.57	43.22	54.00	10.78	Average

Remarks:

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

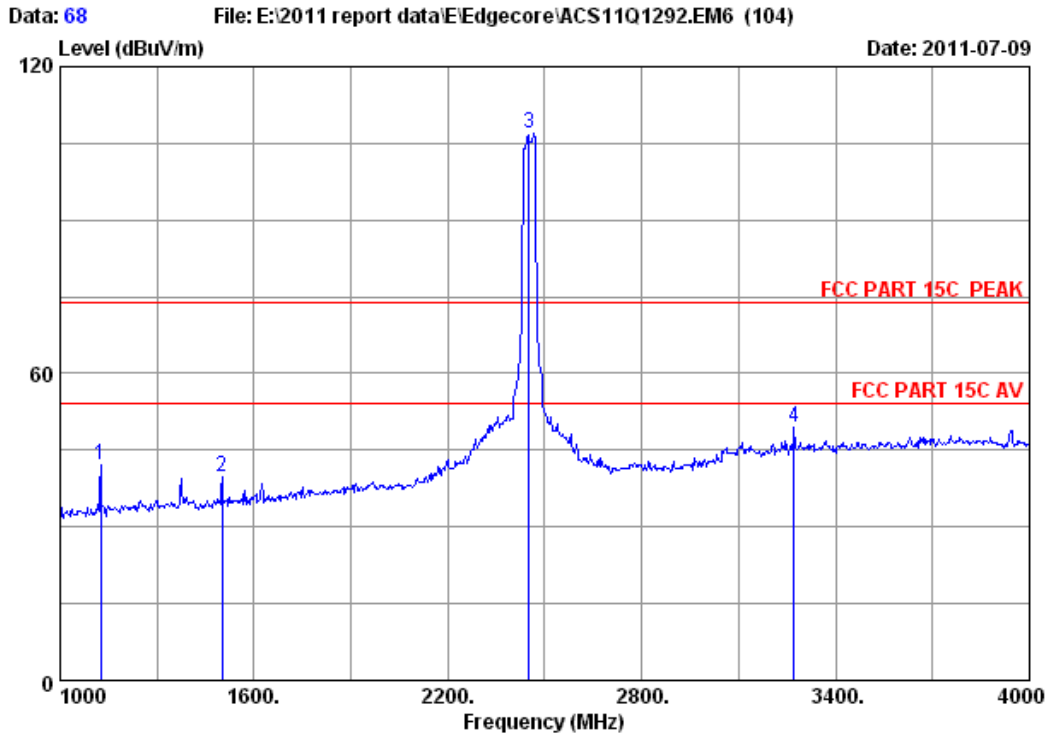


Site no. : 3m Chamber Data no. : 67
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1375.000	25.73	6.43	36.40	43.97	39.73	74.00	34.27	Peak
2	1624.000	26.43	7.15	36.26	42.66	39.98	74.00	34.02	Peak
3	1876.000	27.43	7.57	36.20	42.34	41.14	74.00	32.86	Peak
4	2452.000	28.53	8.48	36.06	93.49	94.44	74.00	-20.44	Peak

Remarks:

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

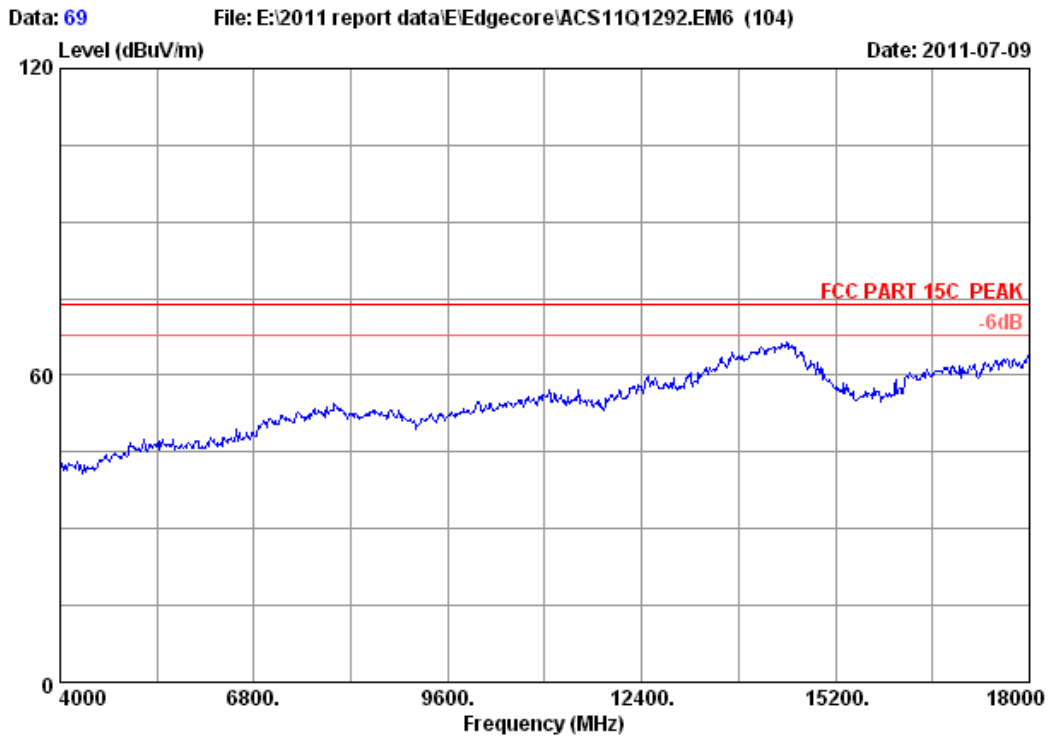


Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : SMCWGBR14-N2

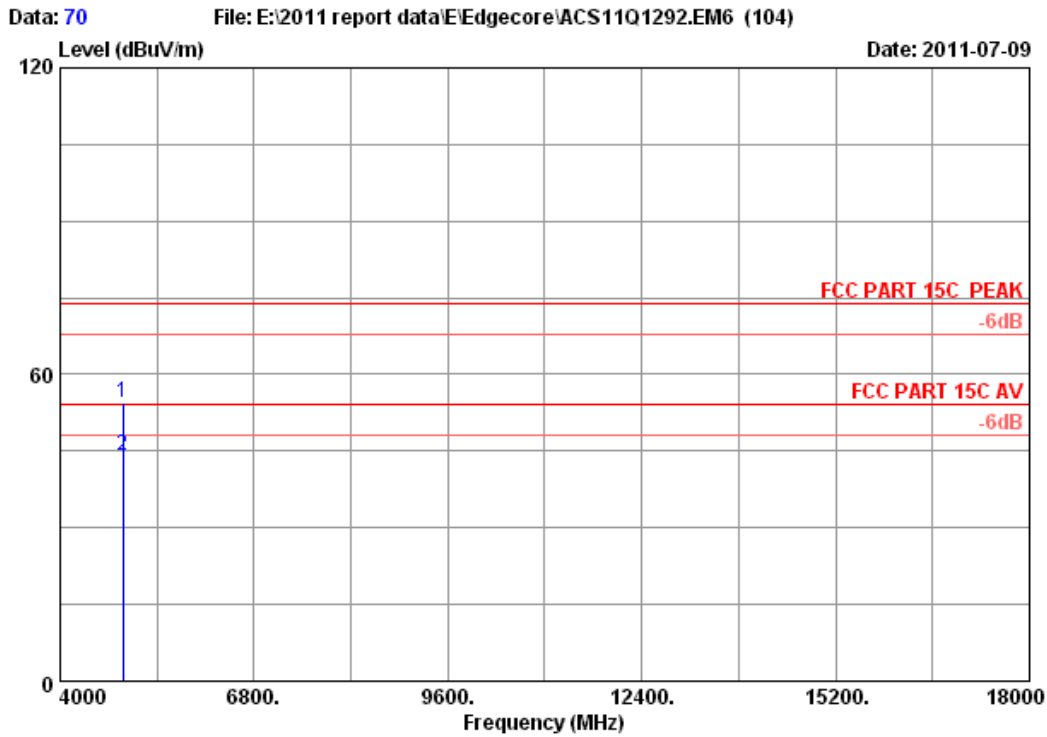
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1126.000	25.37	6.15	37.19	47.69	42.02	74.00	31.98	Peak
2	1501.000	25.90	6.77	36.57	43.66	39.76	74.00	34.24	Peak
3	2452.000	28.53	8.48	36.06	105.88	106.83	74.00	-32.83	Peak
4	3271.000	30.97	10.26	35.79	43.94	49.38	74.00	24.62	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
M/N : SMCWGBR14-N2

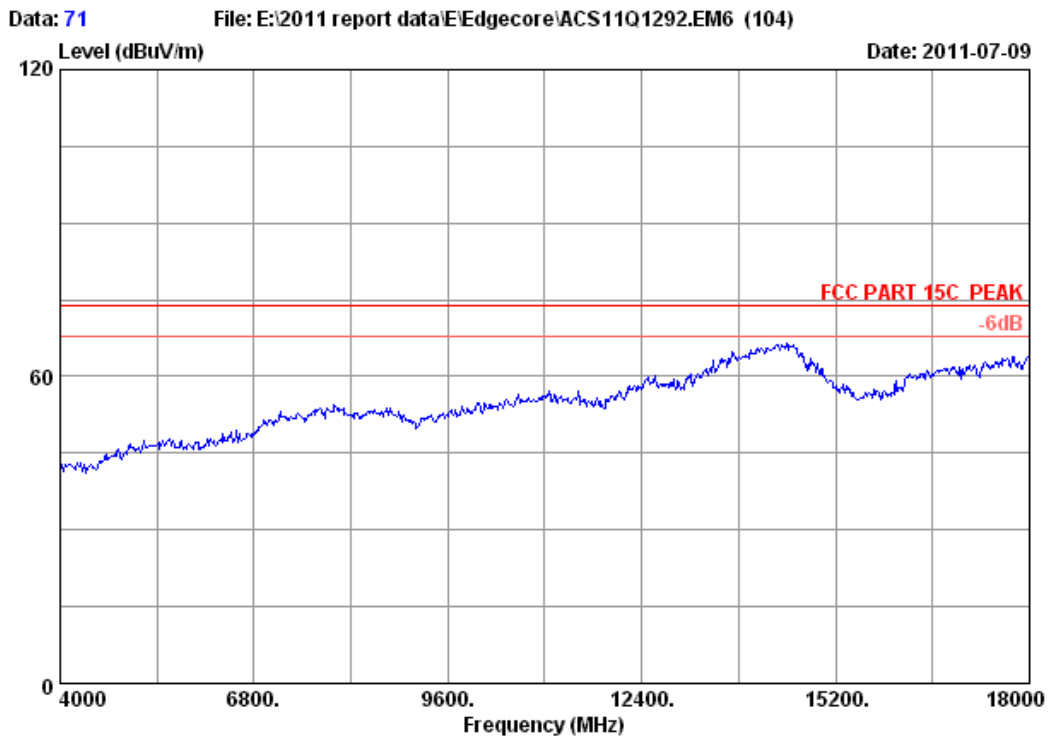


Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : SMCWGBR14-N2

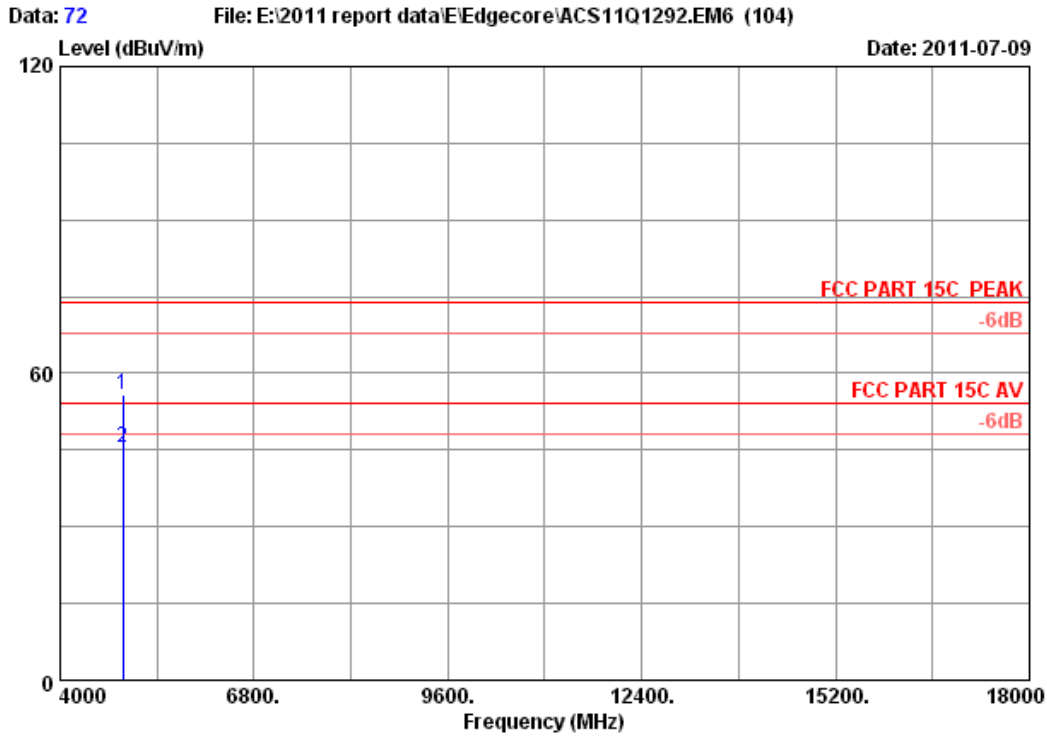
	Ant. Freq. (MHz)	Cable Factor (dB/m)	Amp. loss (dB)	Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4904.000	34.98	12.43	35.27	42.40	54.54	74.00	19.46	Peak
2	4904.000	34.98	12.43	35.27	31.88	44.02	54.00	9.98	Average

Remarks:

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



Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 802.11n Wireless 4-port Gigabit Broadband Router
Power : DC 12V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
M/N : SMCWGBR14-N2



Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : SMCWGBR14-N2

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4904.000	34.98	12.43	35.27	43.69	55.83	74.00	18.17	Peak	
2 4904.000	34.98	12.43	35.27	33.19	45.33	54.00	8.67	Average	

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

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,11	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,11	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,11	1Year

5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

5.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

5.4. Test result

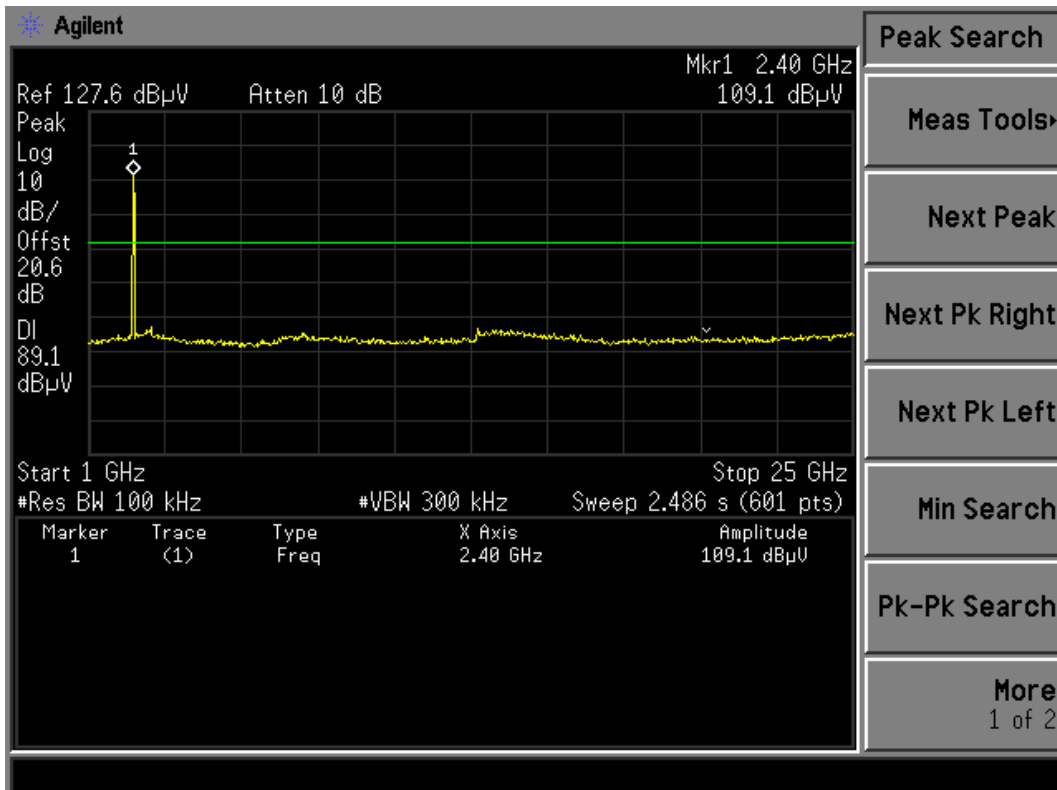
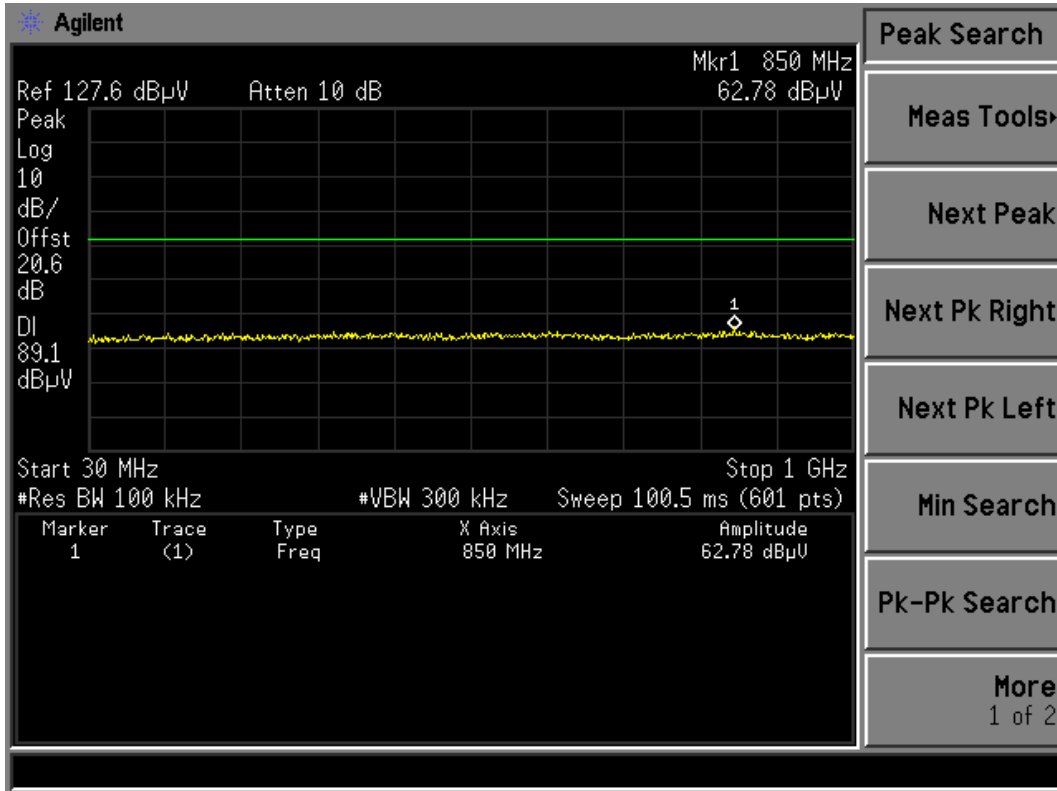
PASS (The testing data was attached in the next pages.)

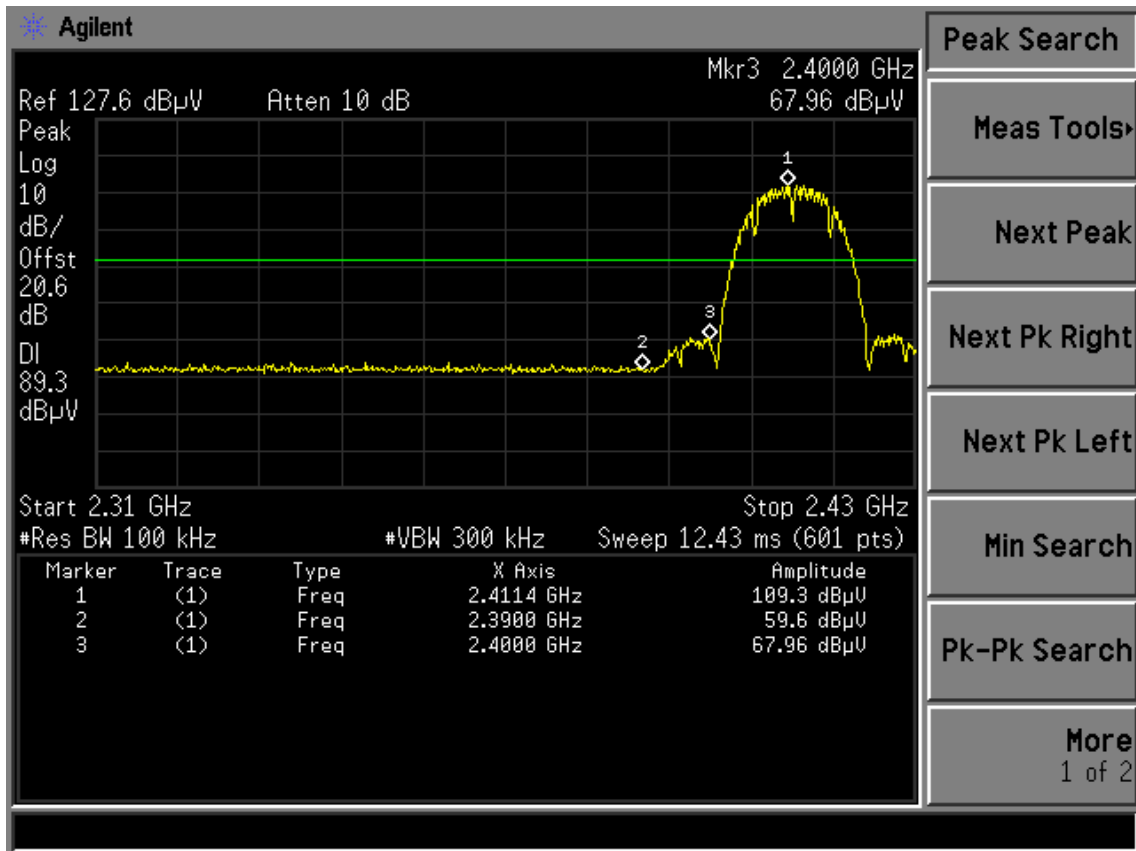
Conducted emission test data:

Chain 1:

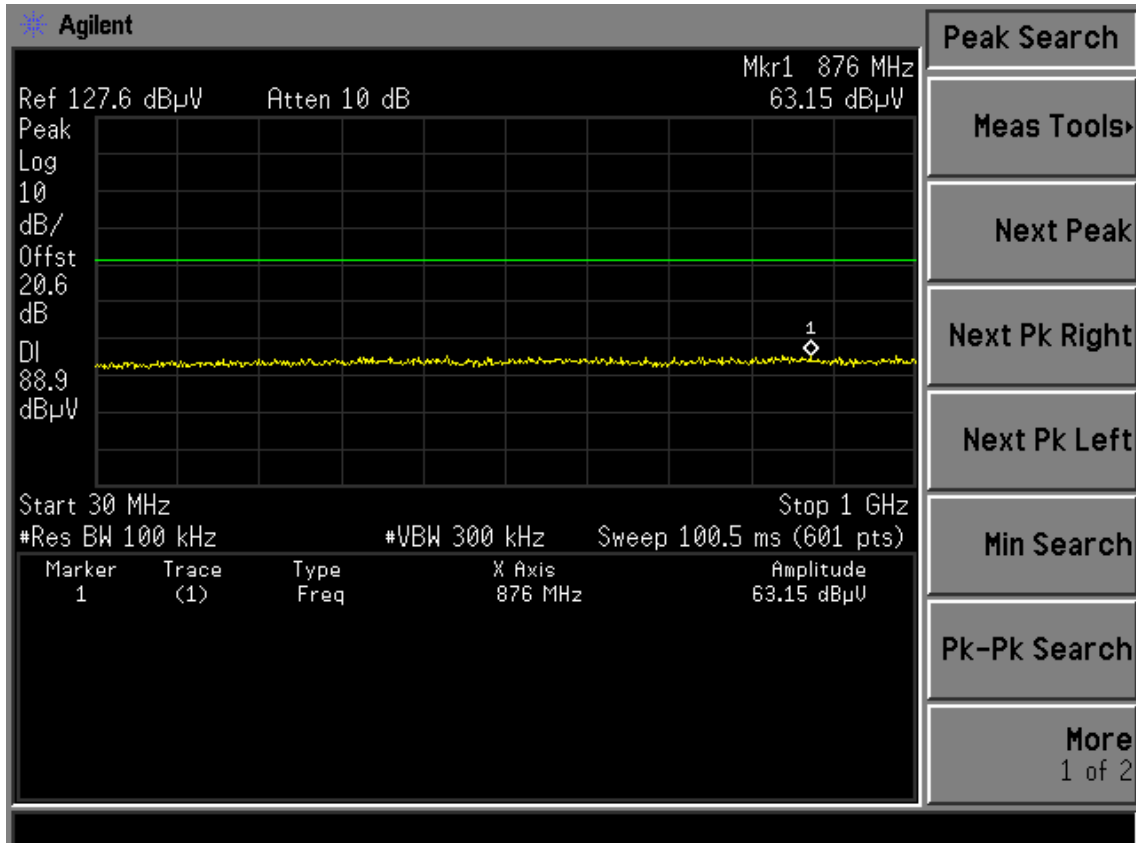
Test Mode: IEEE 802.11b TX

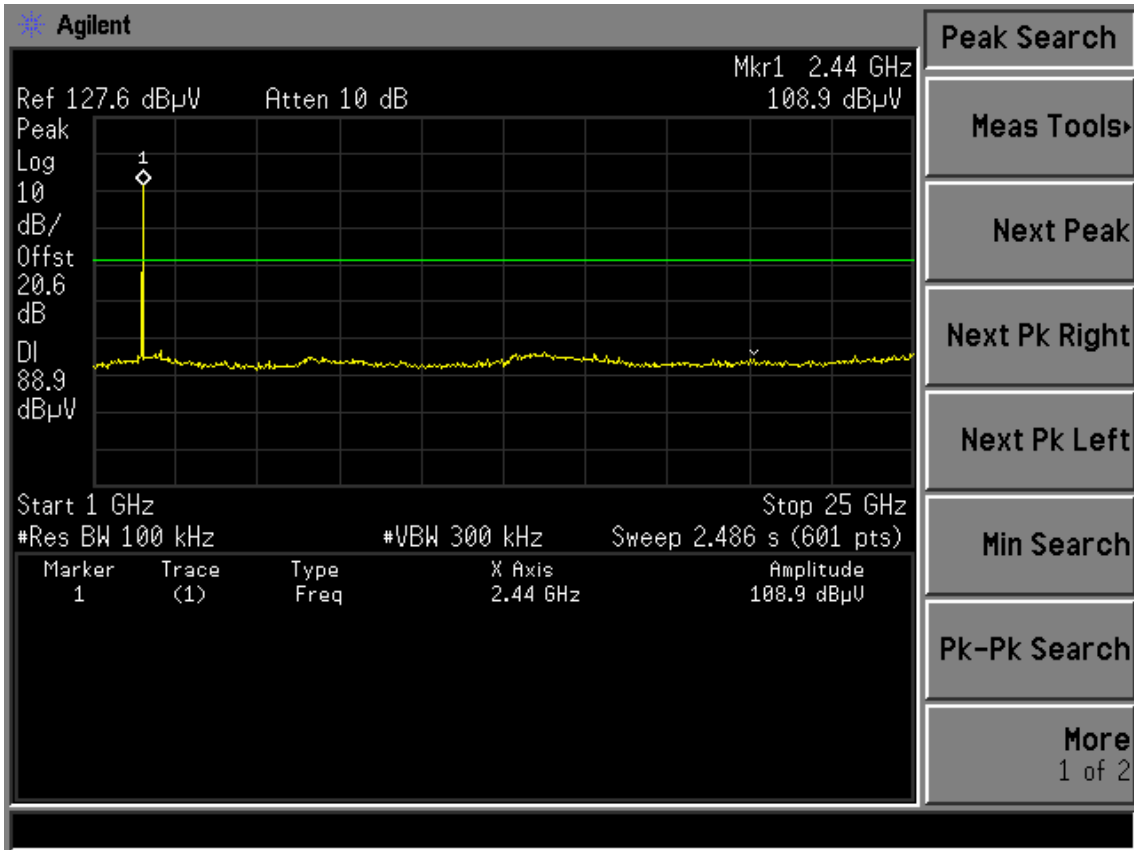
Test CH1: 2412MHz



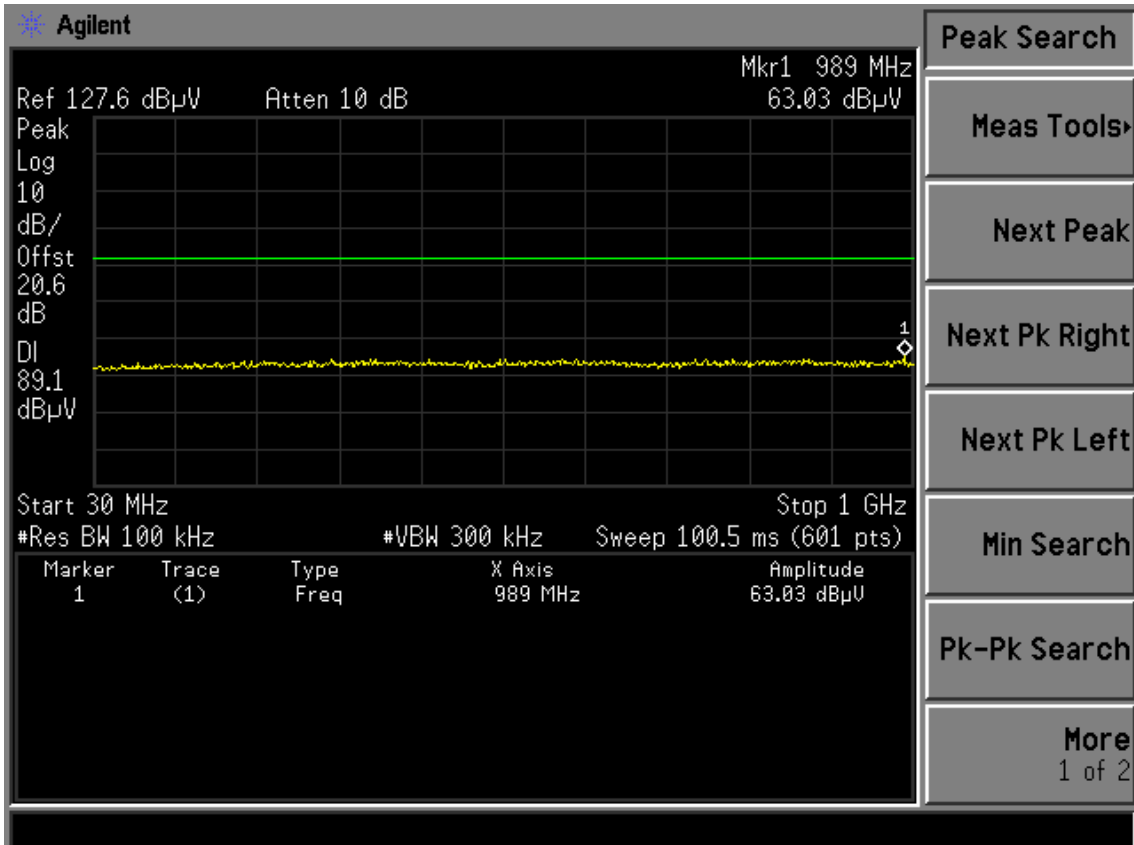


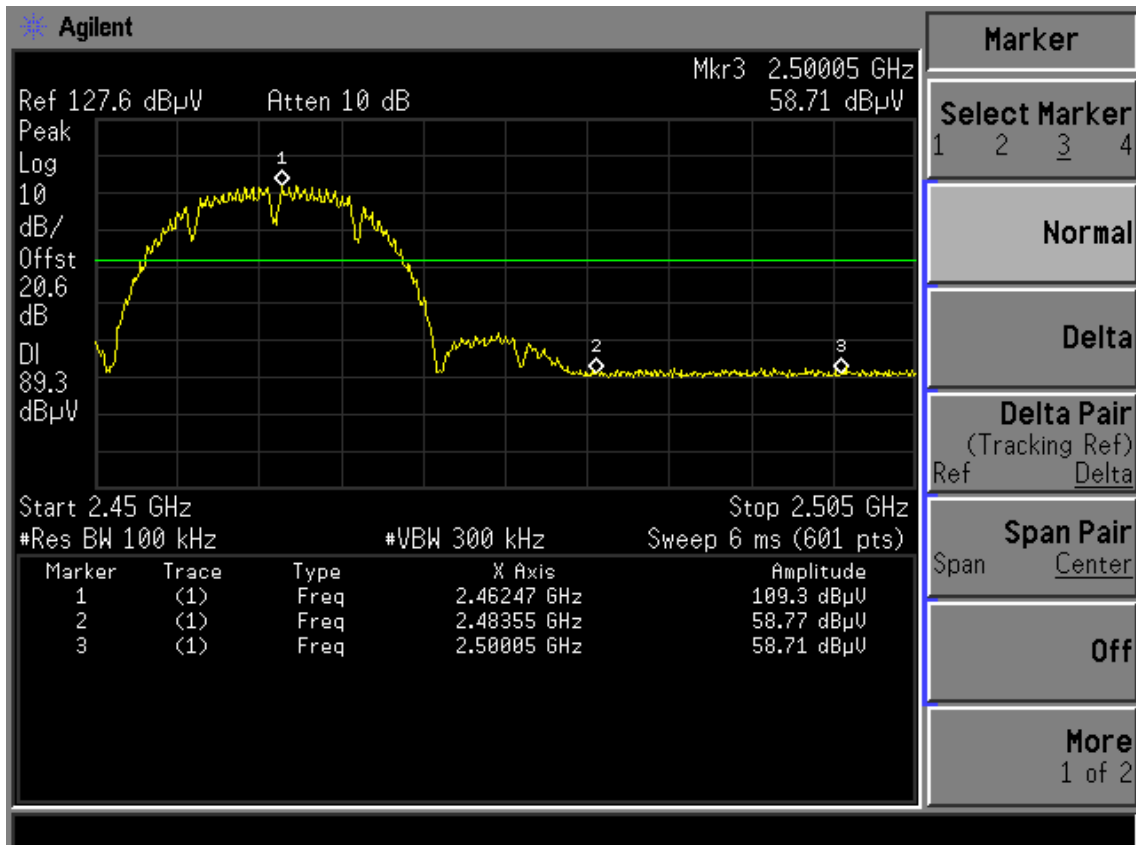
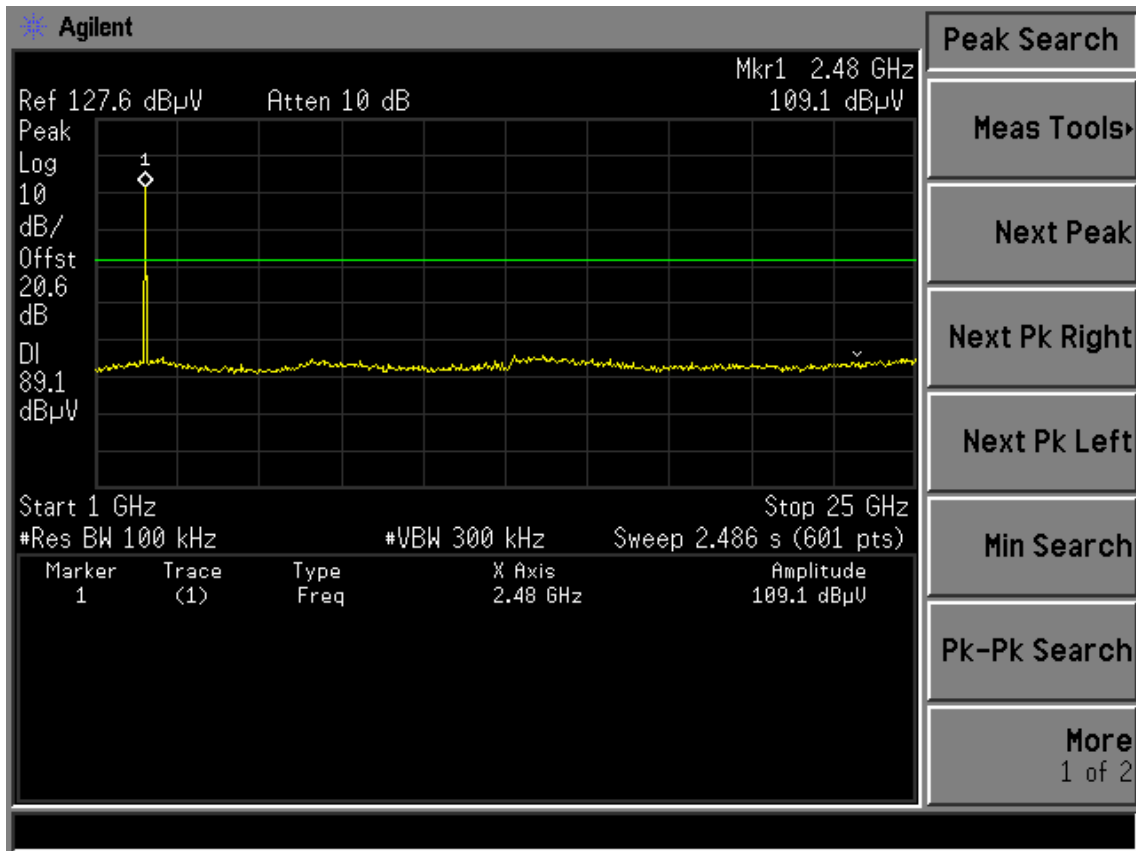
Test CH6: 2437MHz



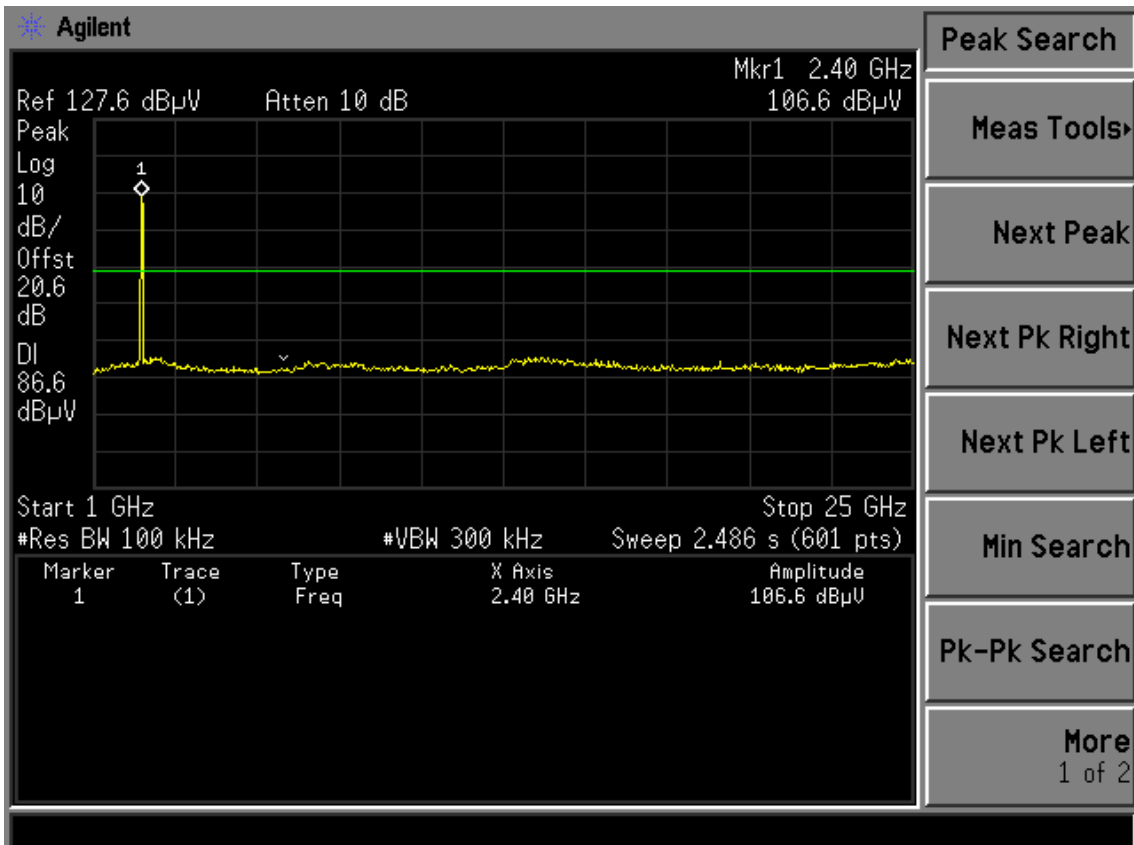
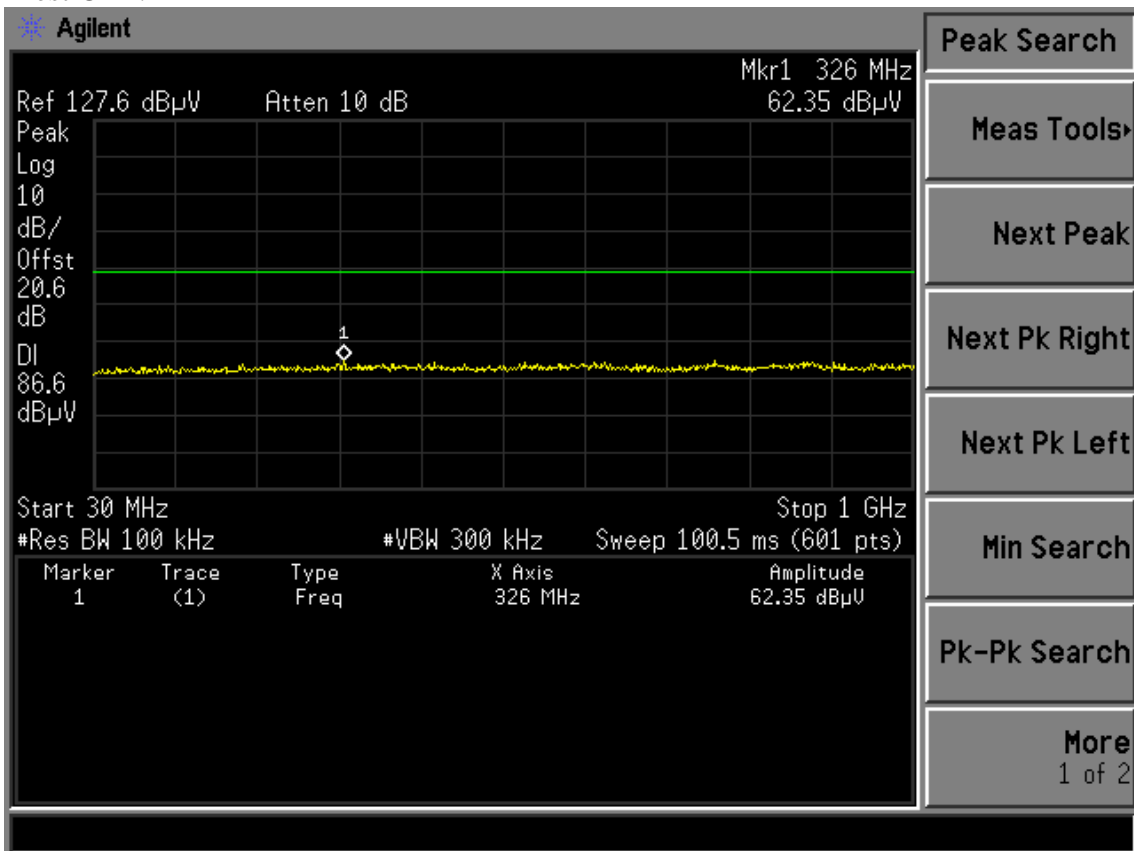


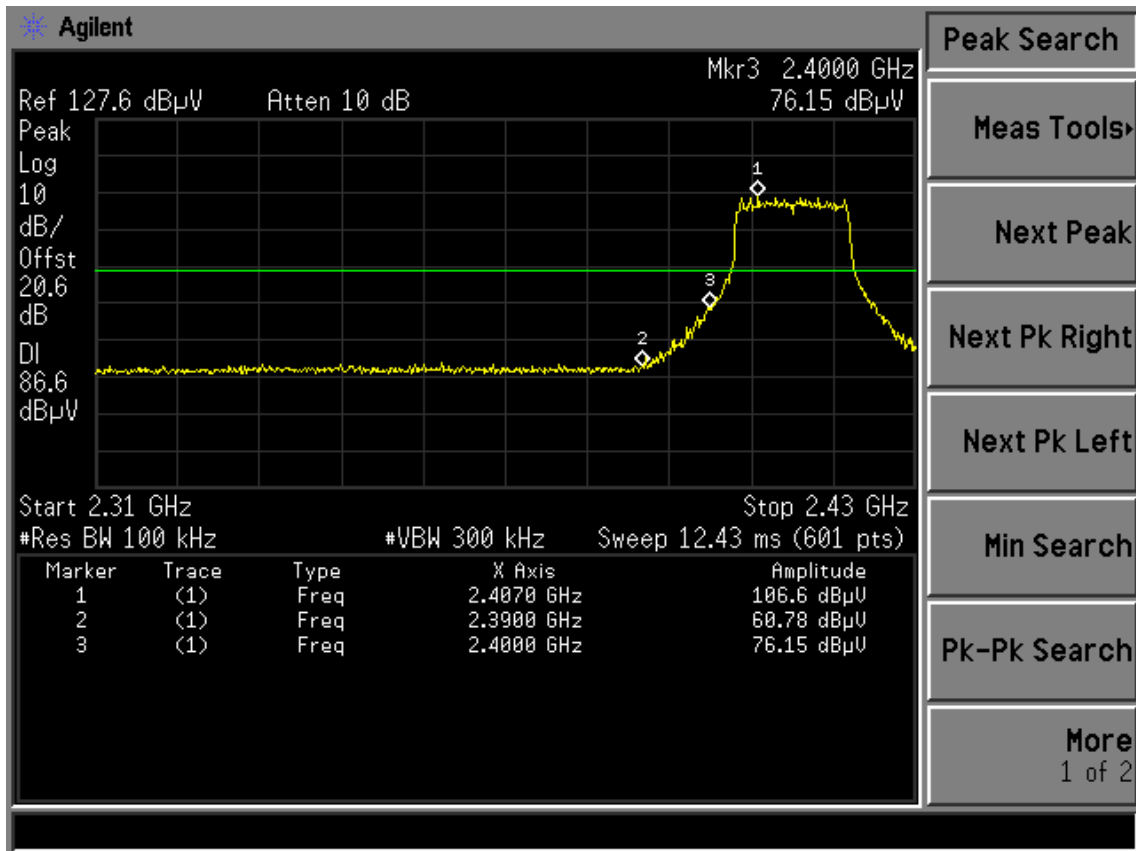
Test CH11: 2462MHz



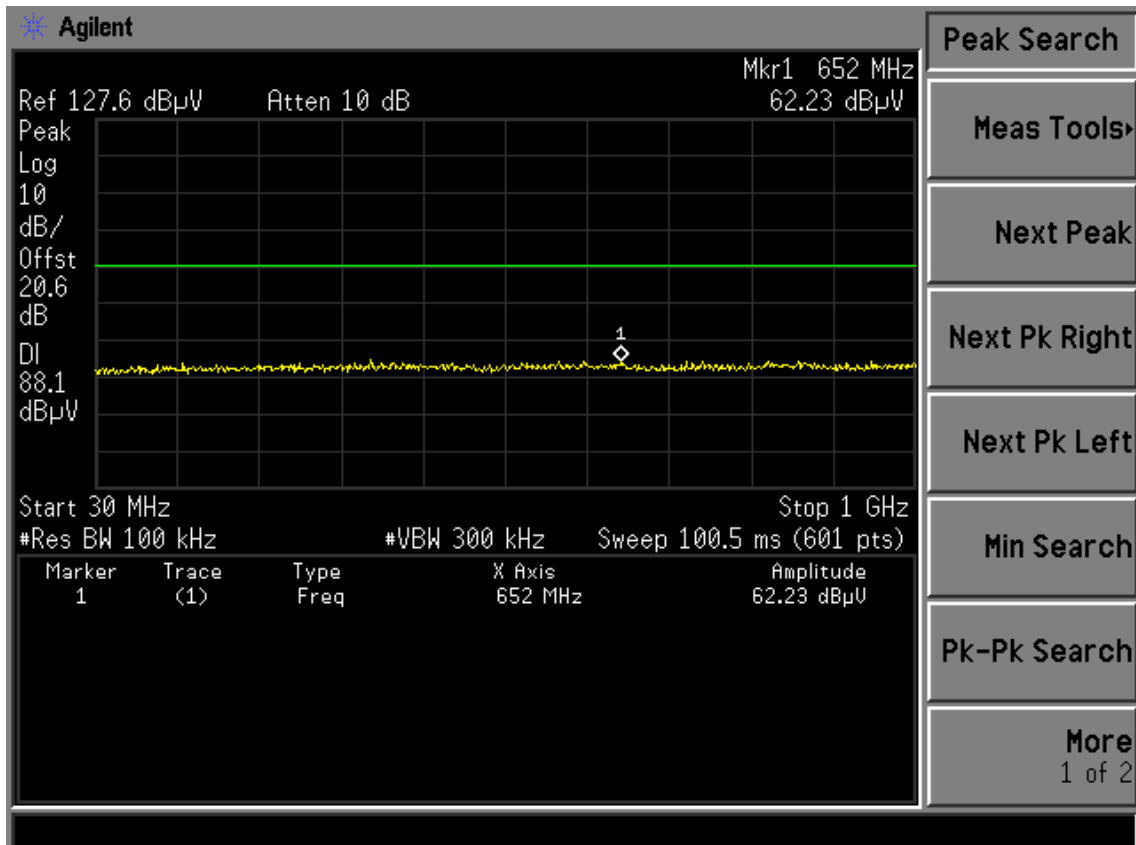


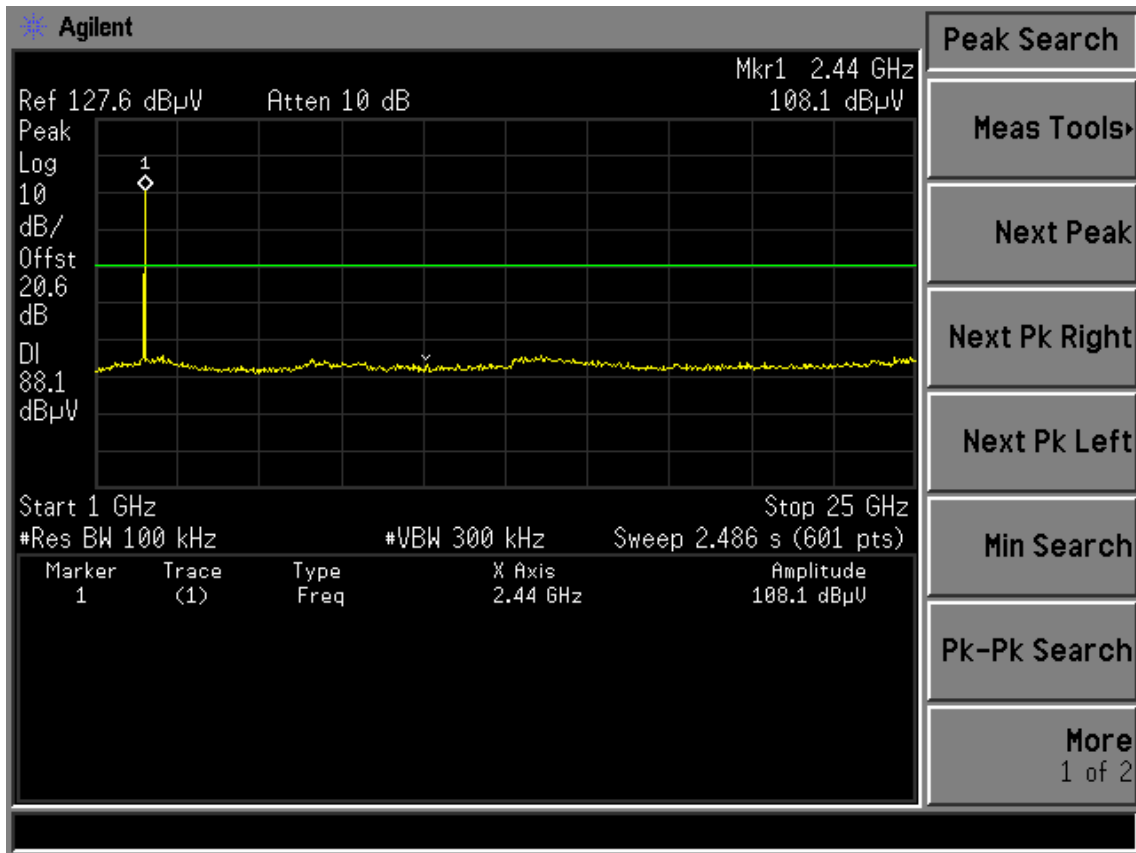
Test Mode: IEEE 802.11g TX
 Test CH1: 2412MHz



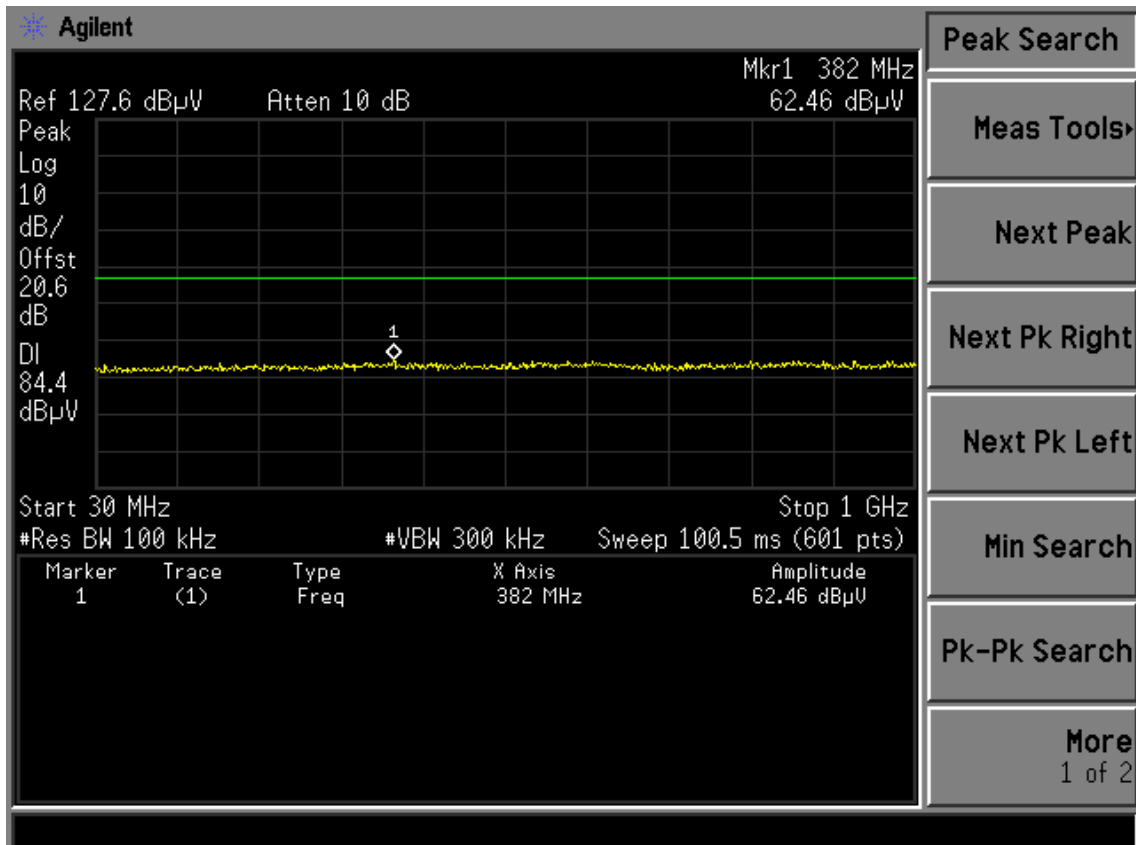


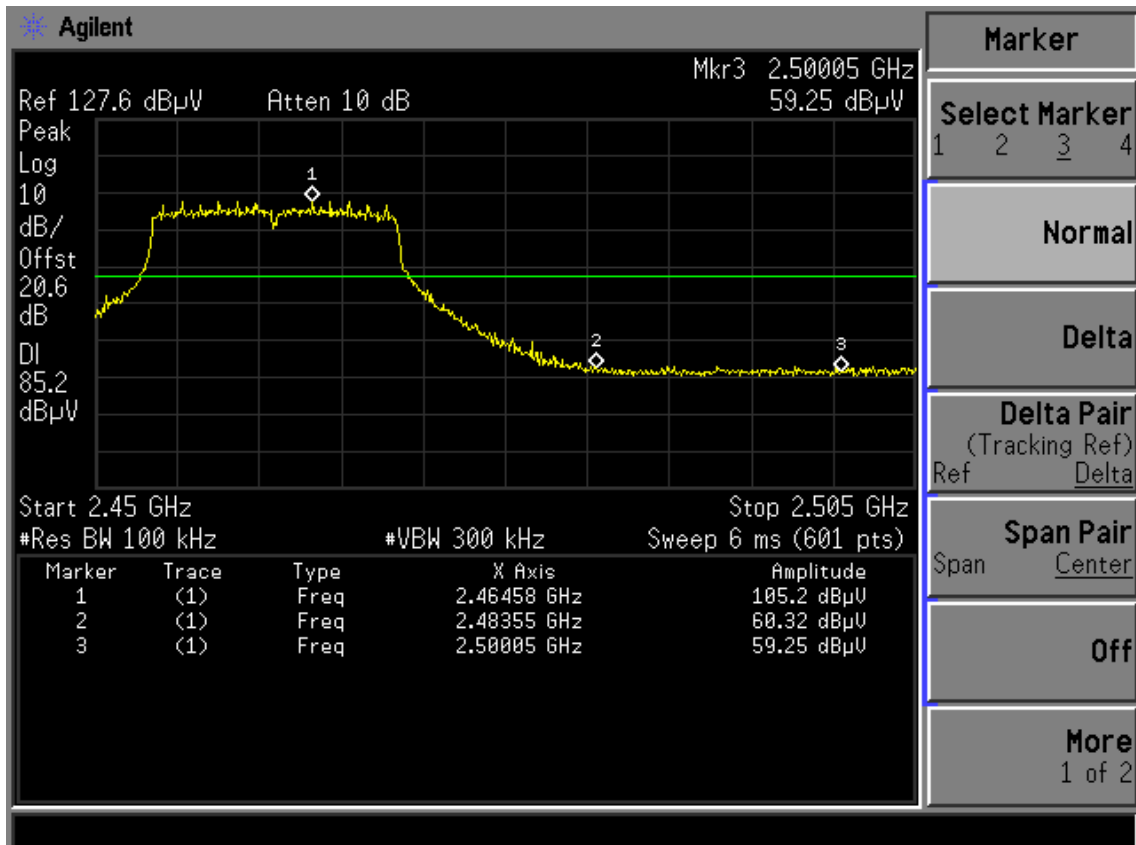
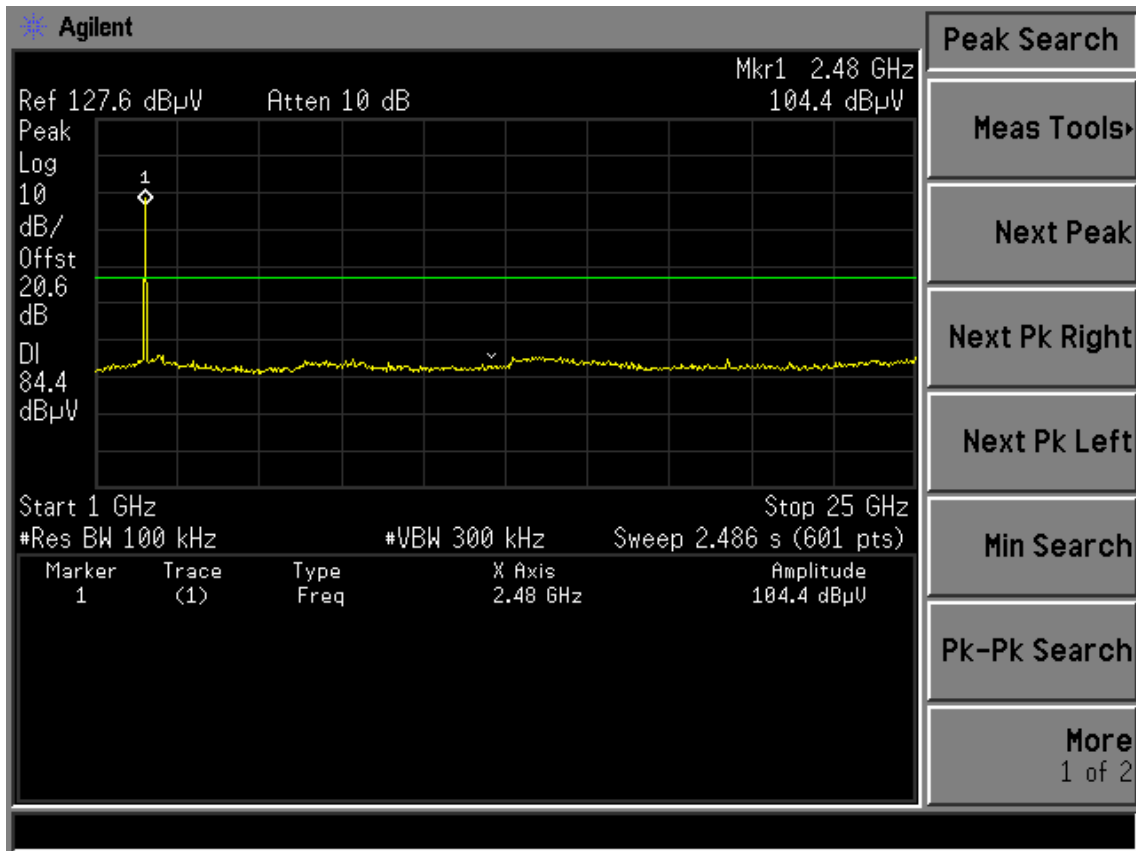
Test CH6: 2437MHz





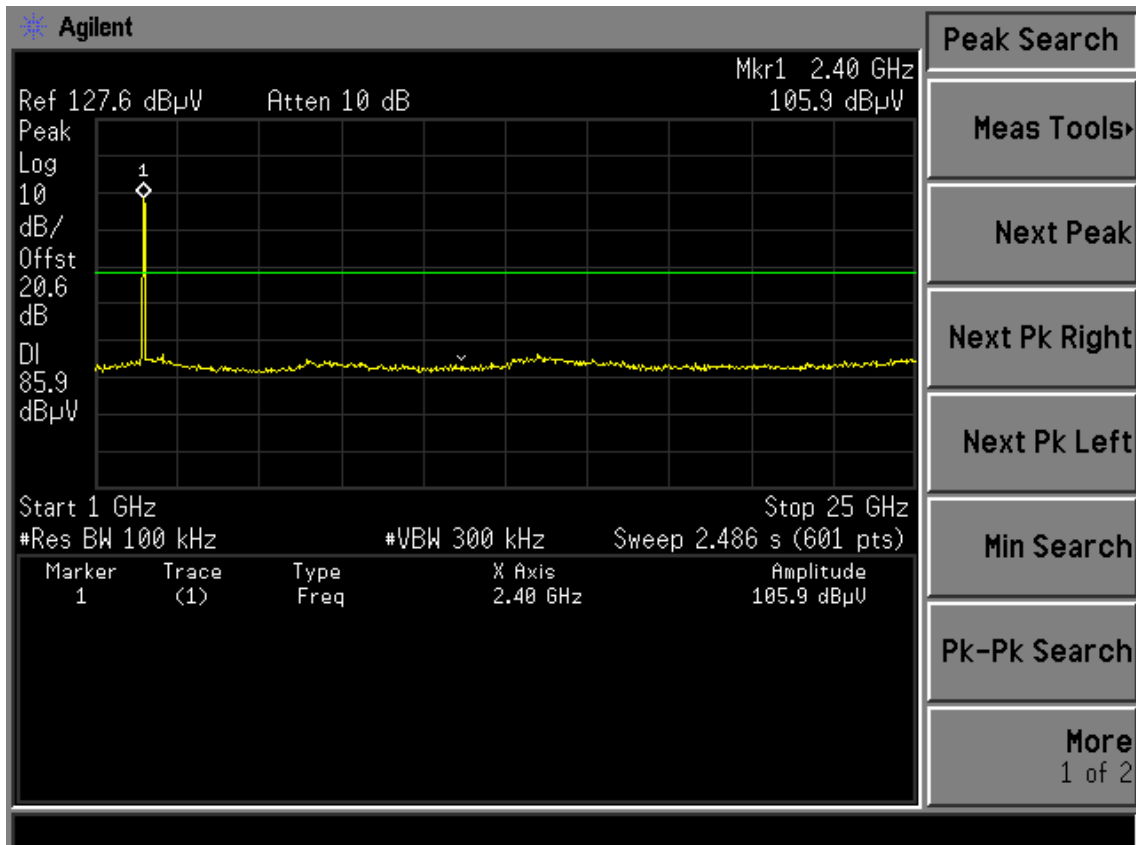
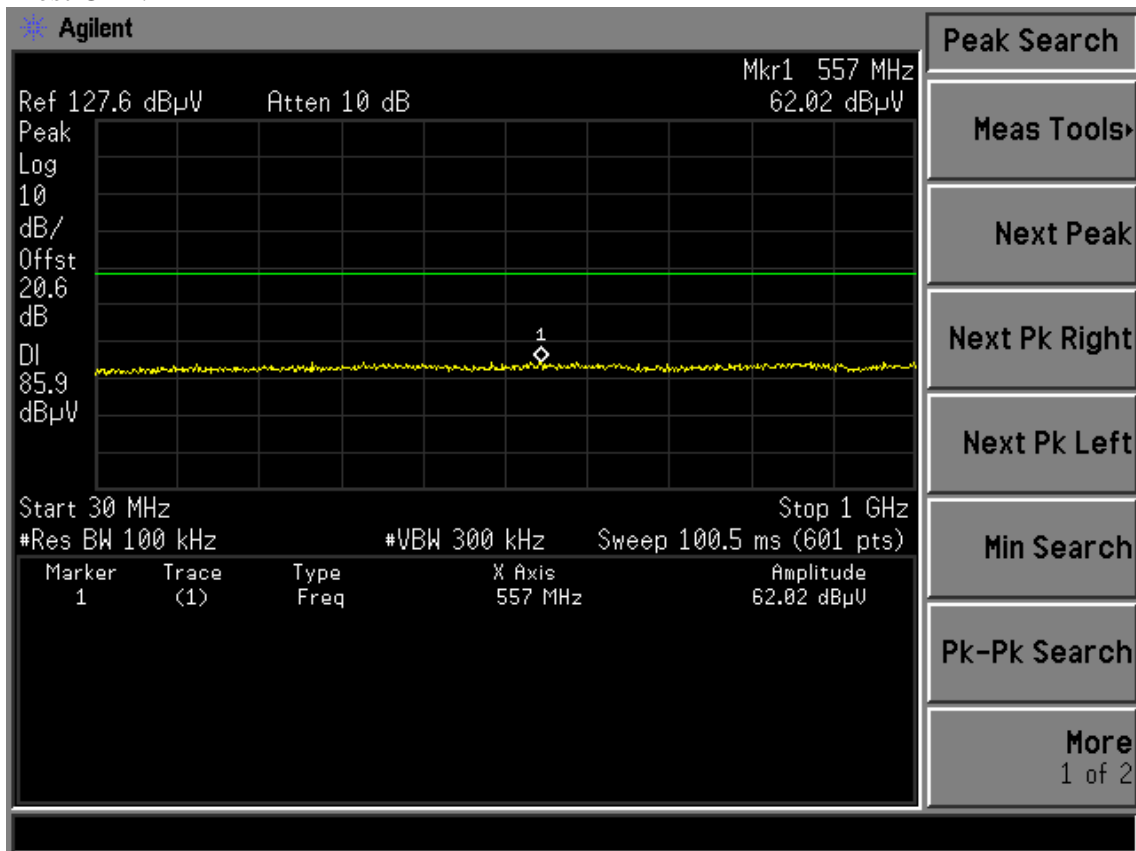
Test CH11: 2462MHz

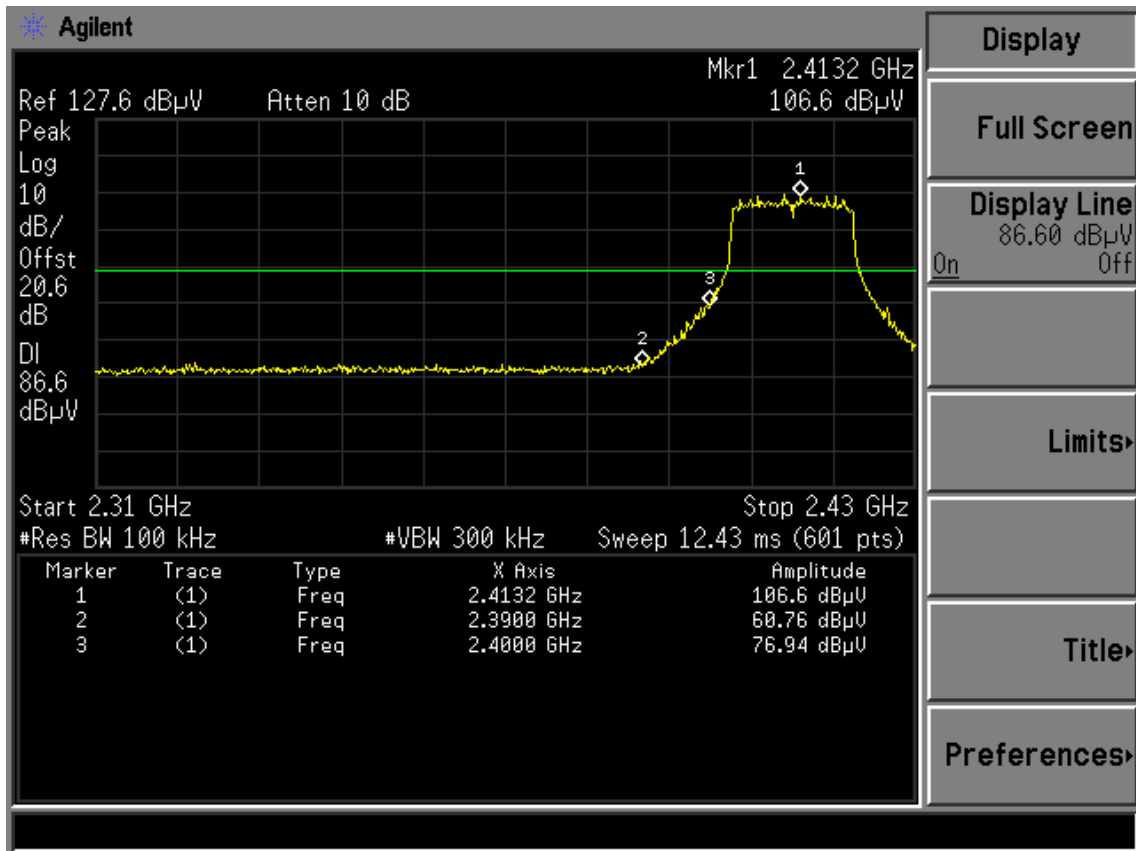




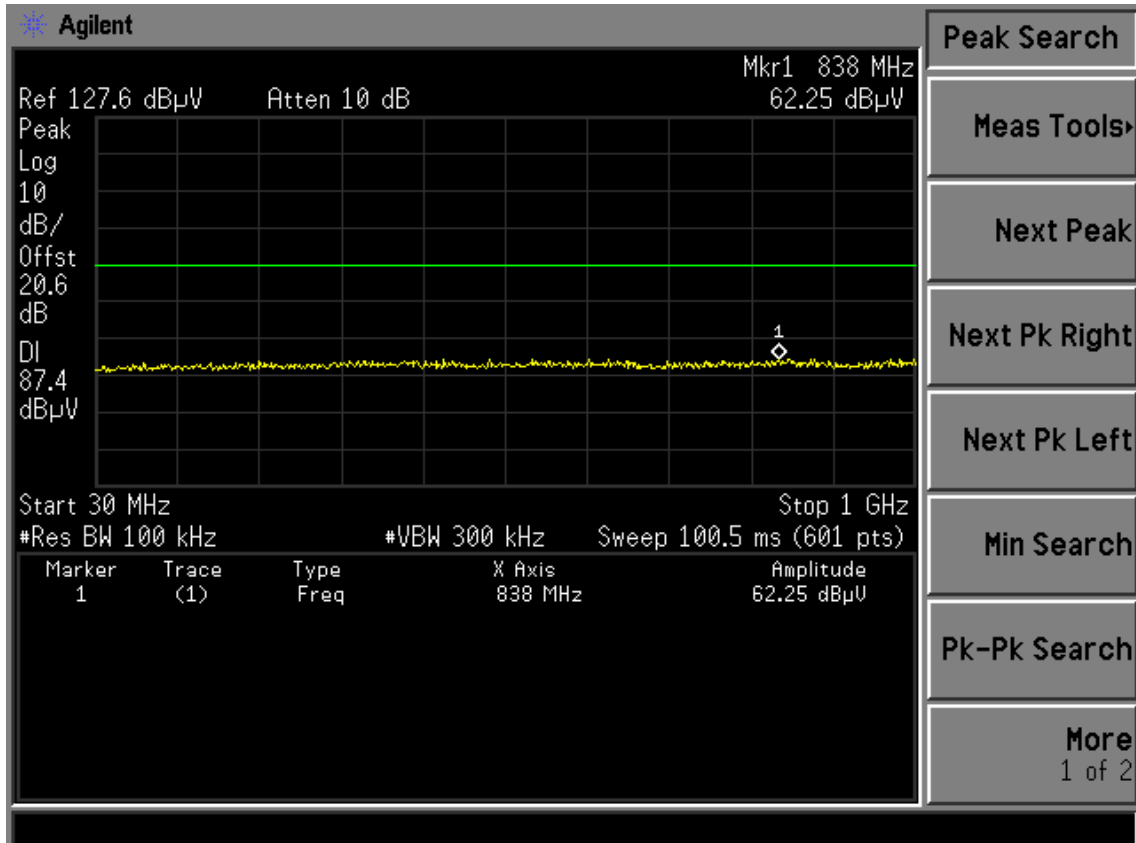
Test Mode: IEEE 802.11n HT20 TX

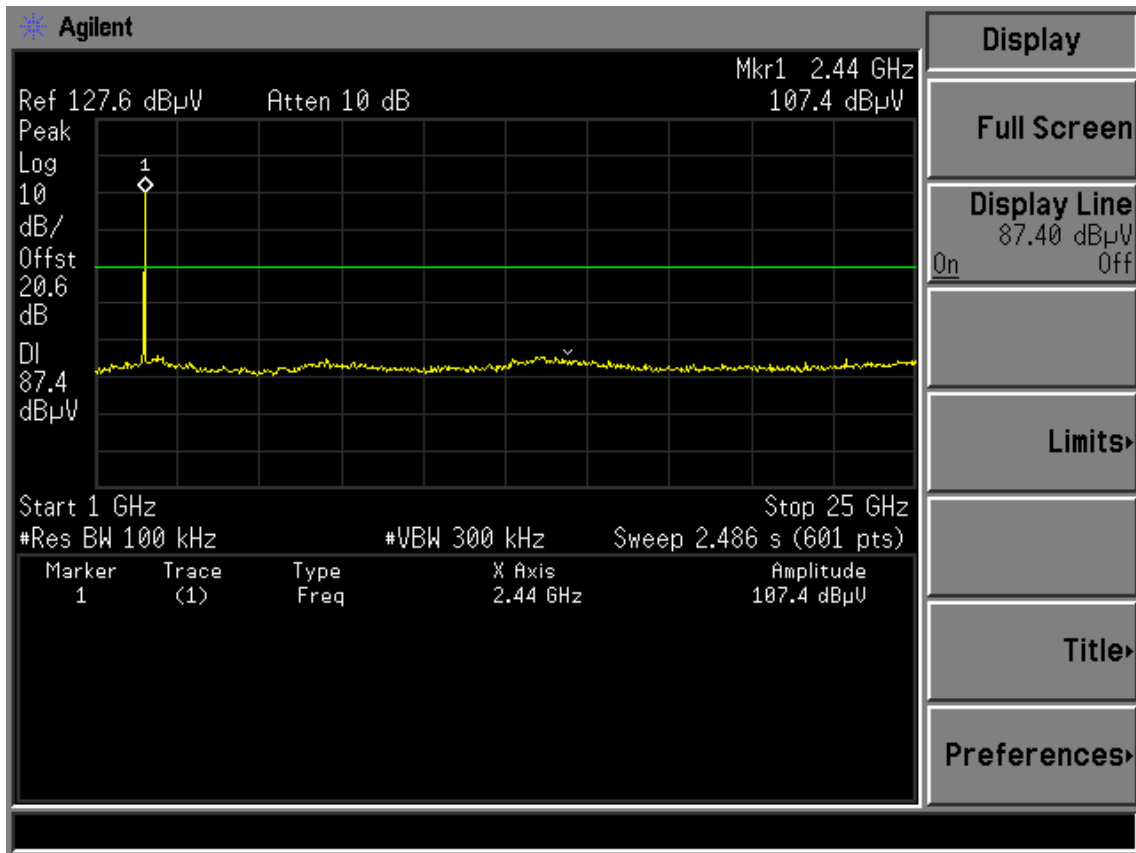
Test CH1: 2412MHz



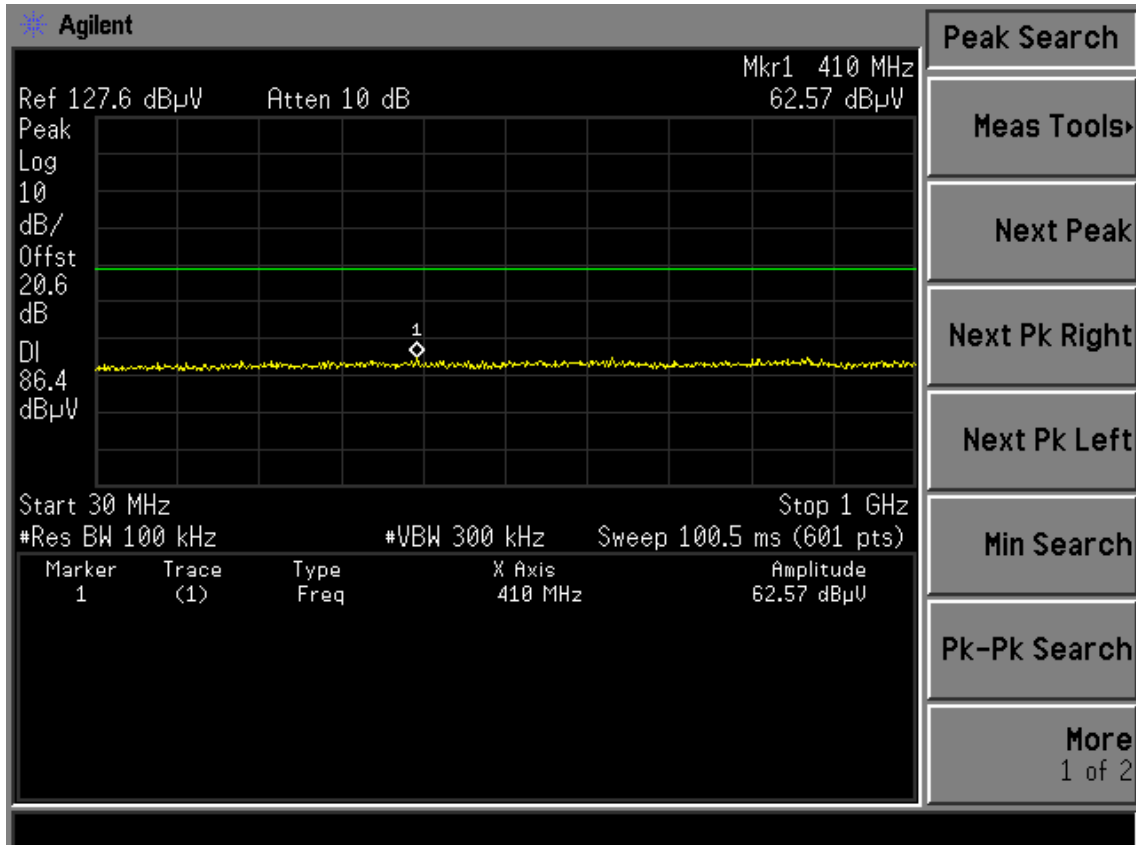


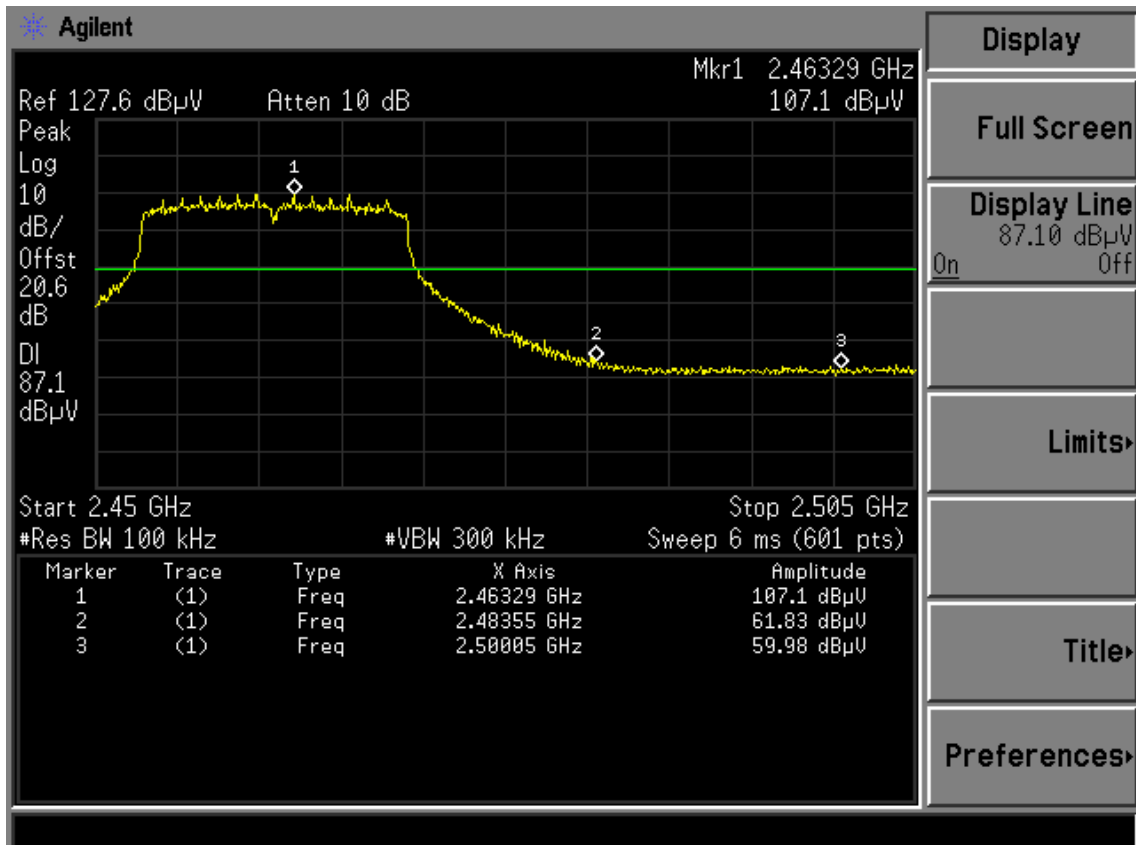
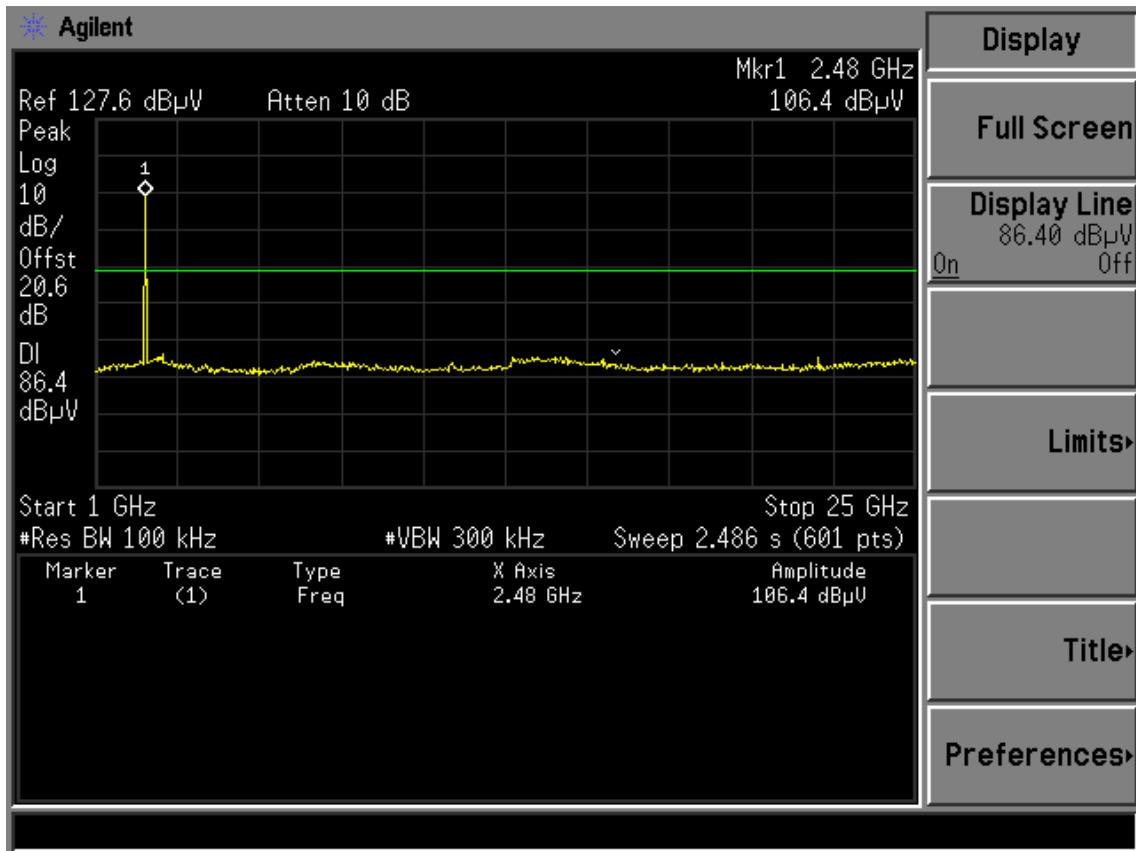
Test CH6: 2437MHz



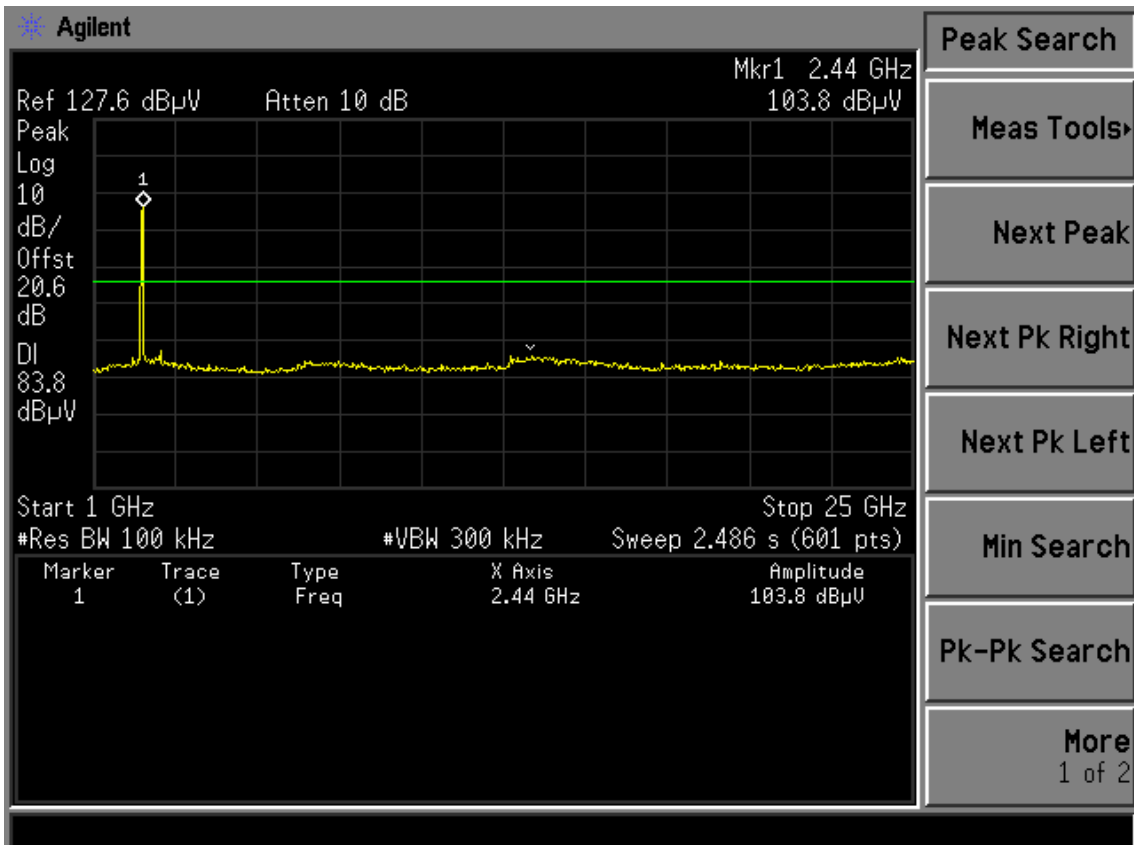
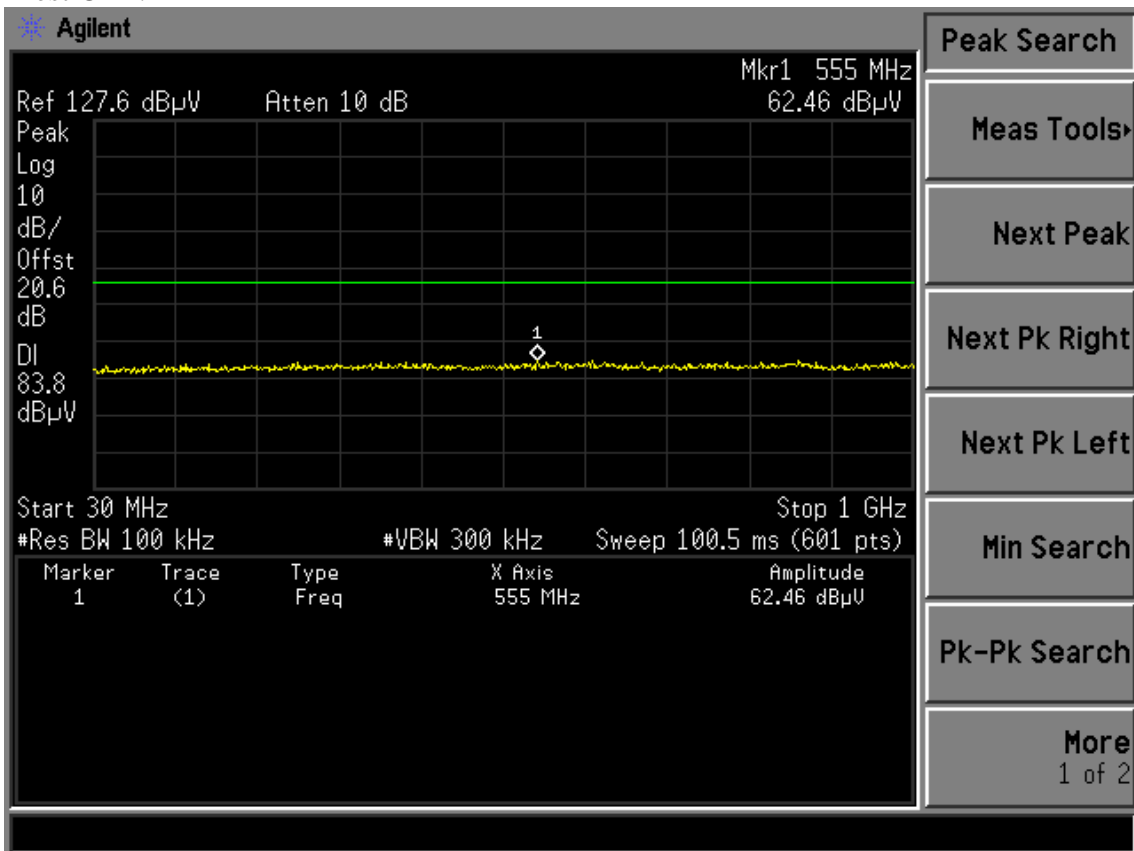


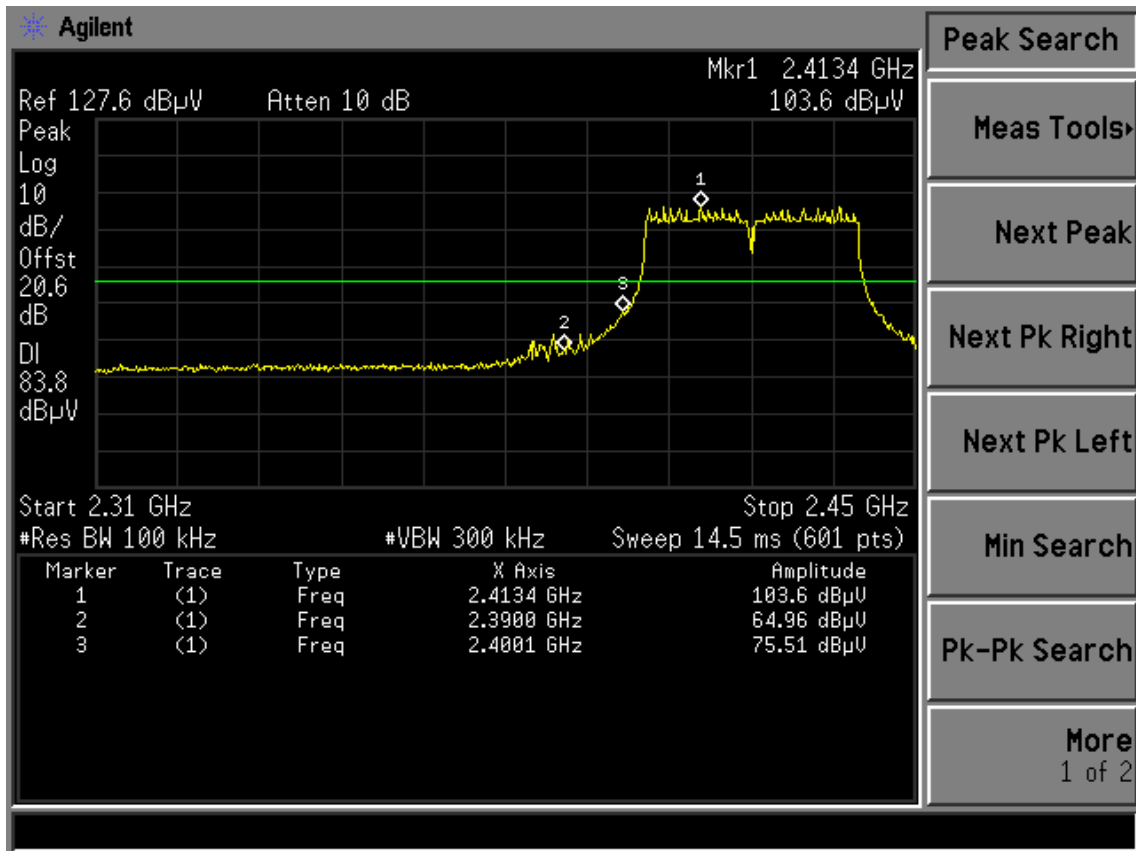
Test CH11: 2462MHz



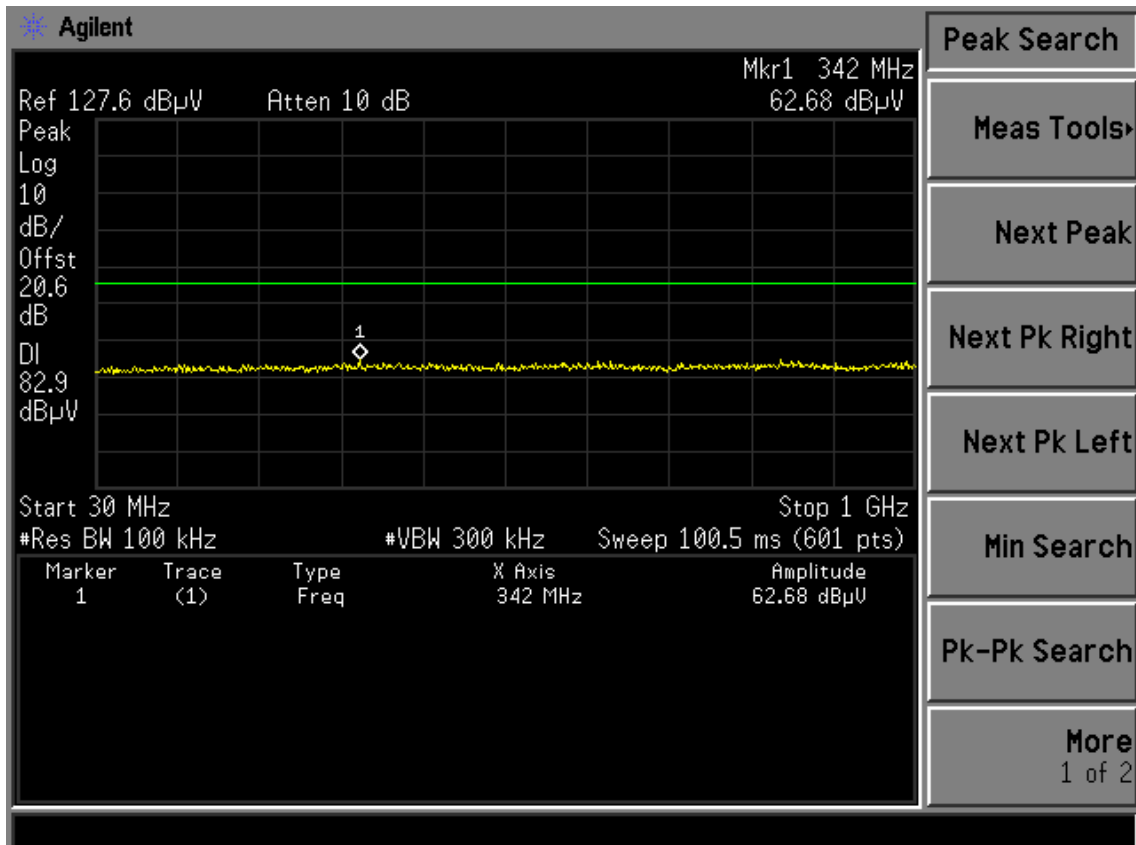


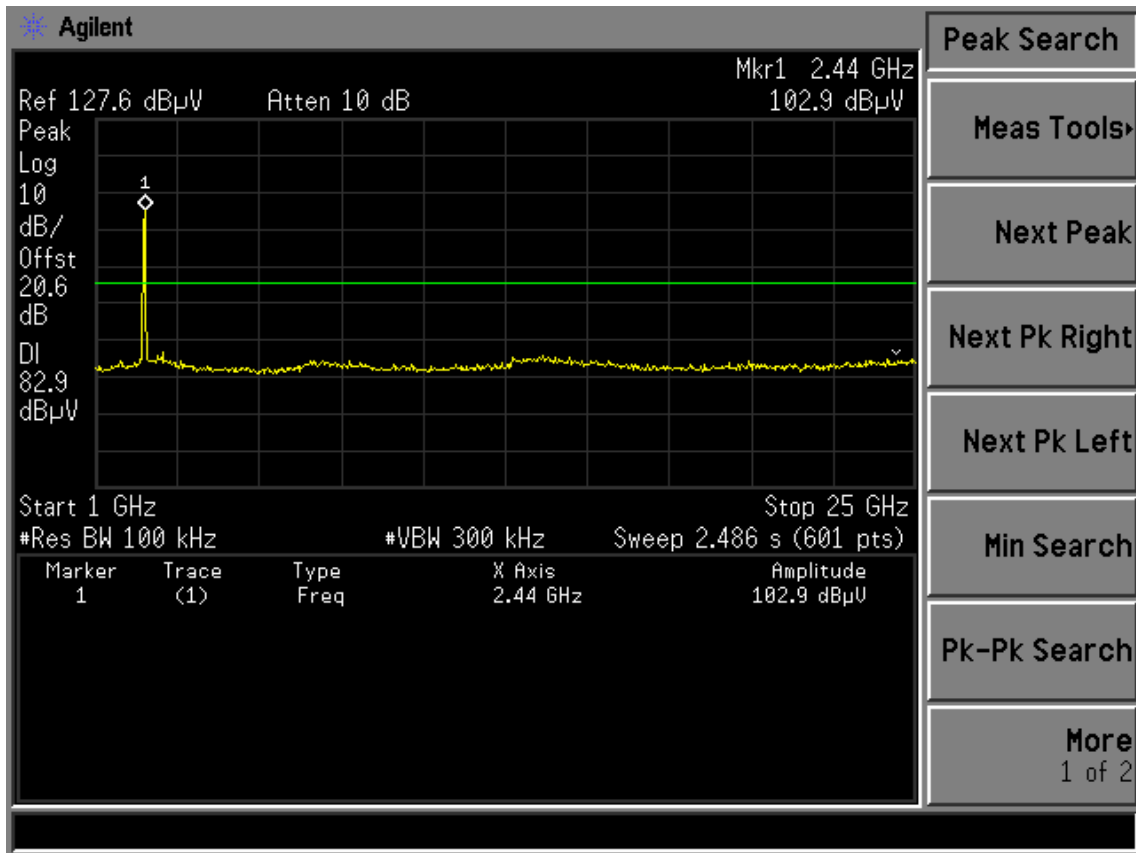
Test Mode: IEEE 802.11n HT40 TX
 Test CH1: 2422MHz



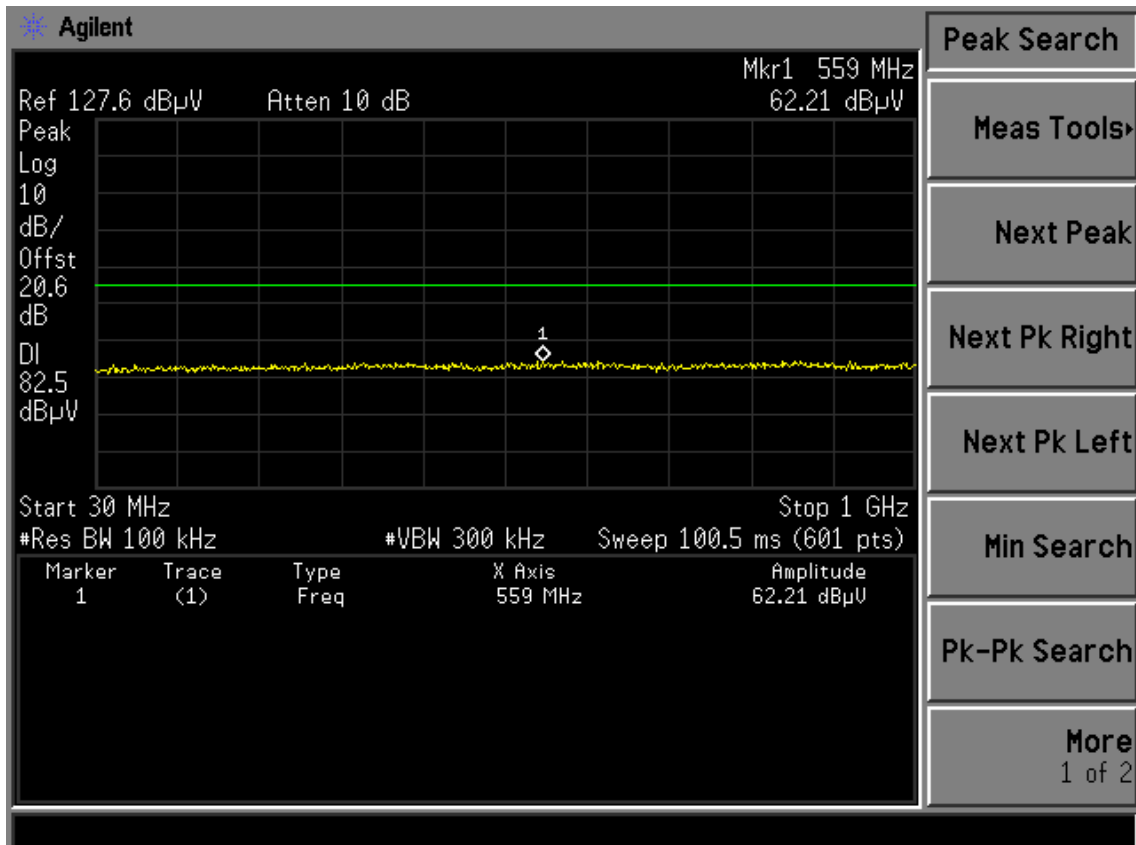


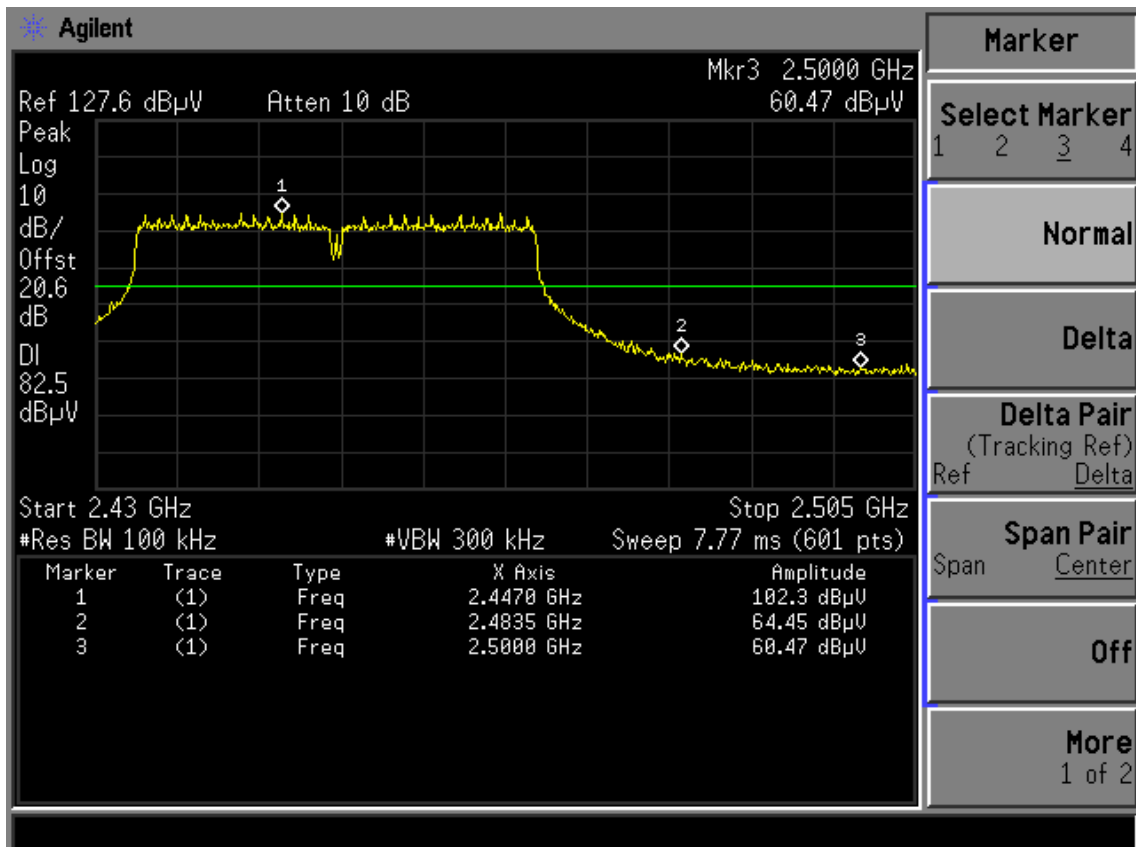
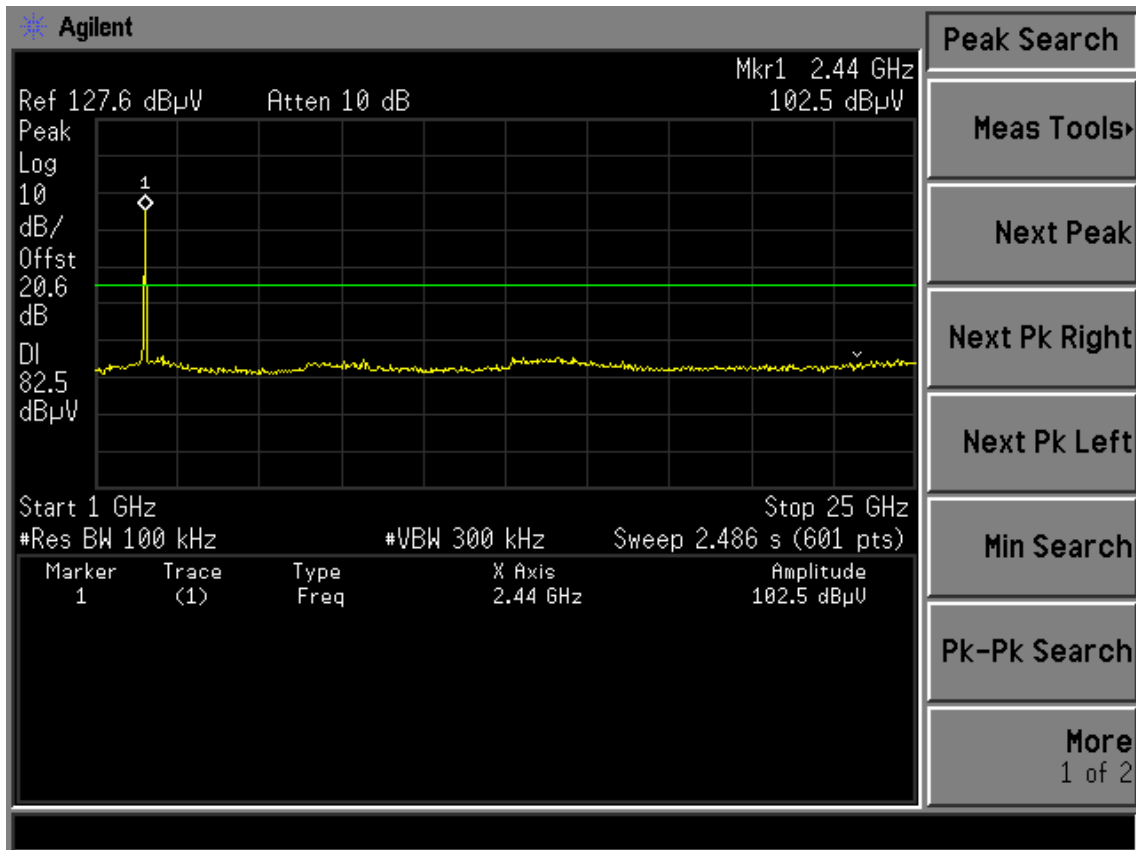
Test CH4: 2437MHz





Test CH7: 2452MHz

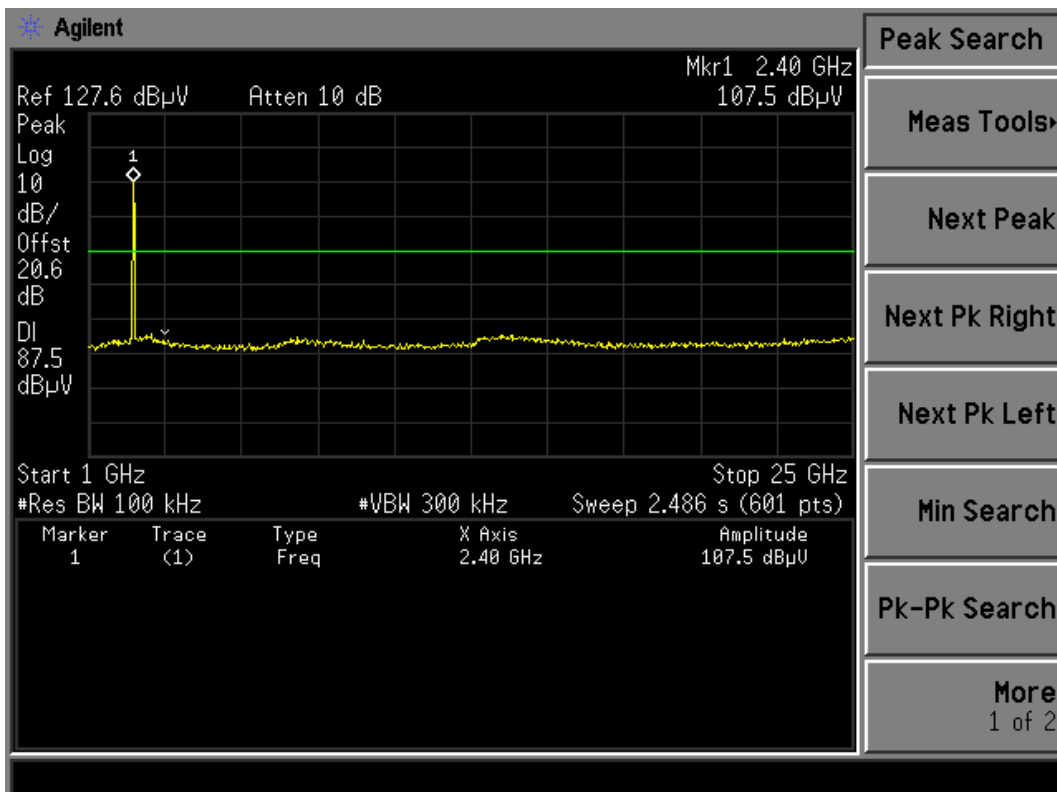
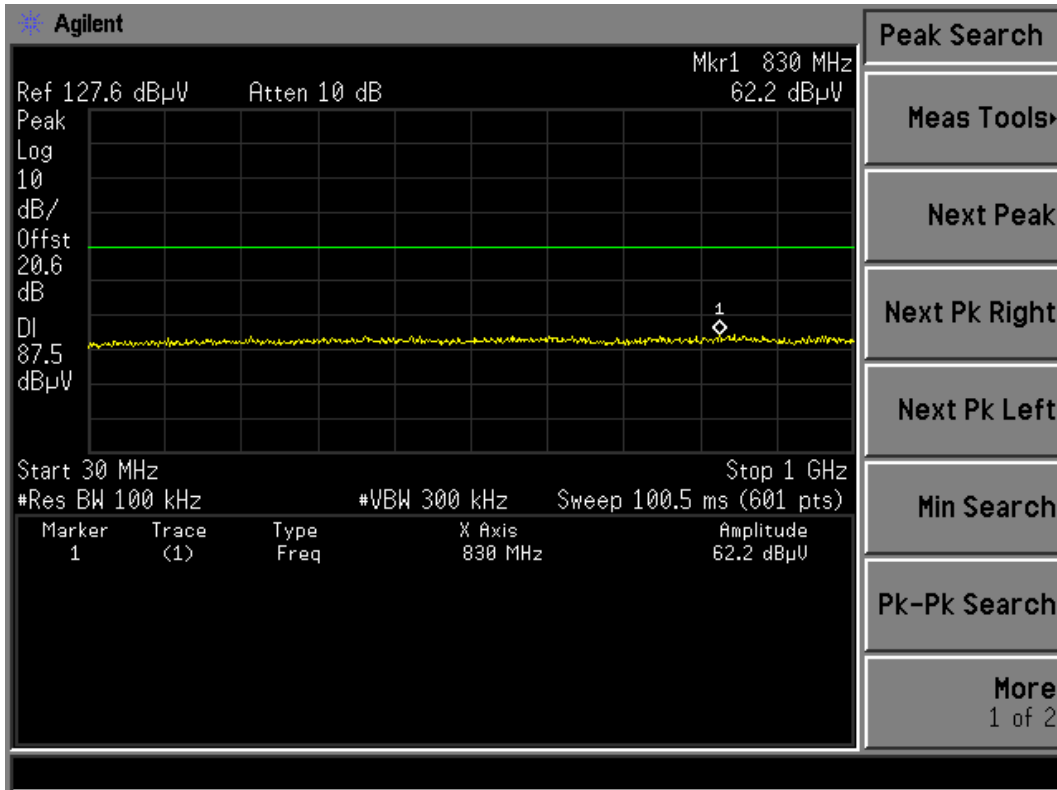


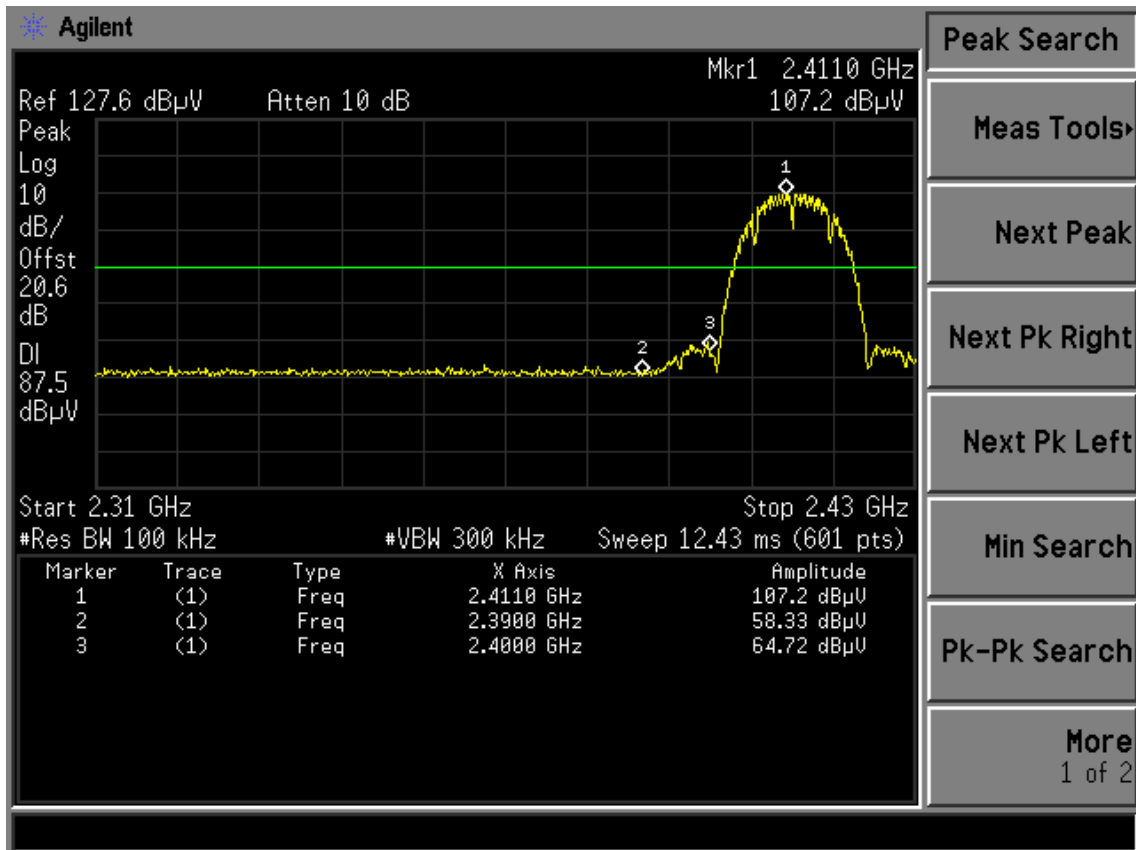


Chain 2:

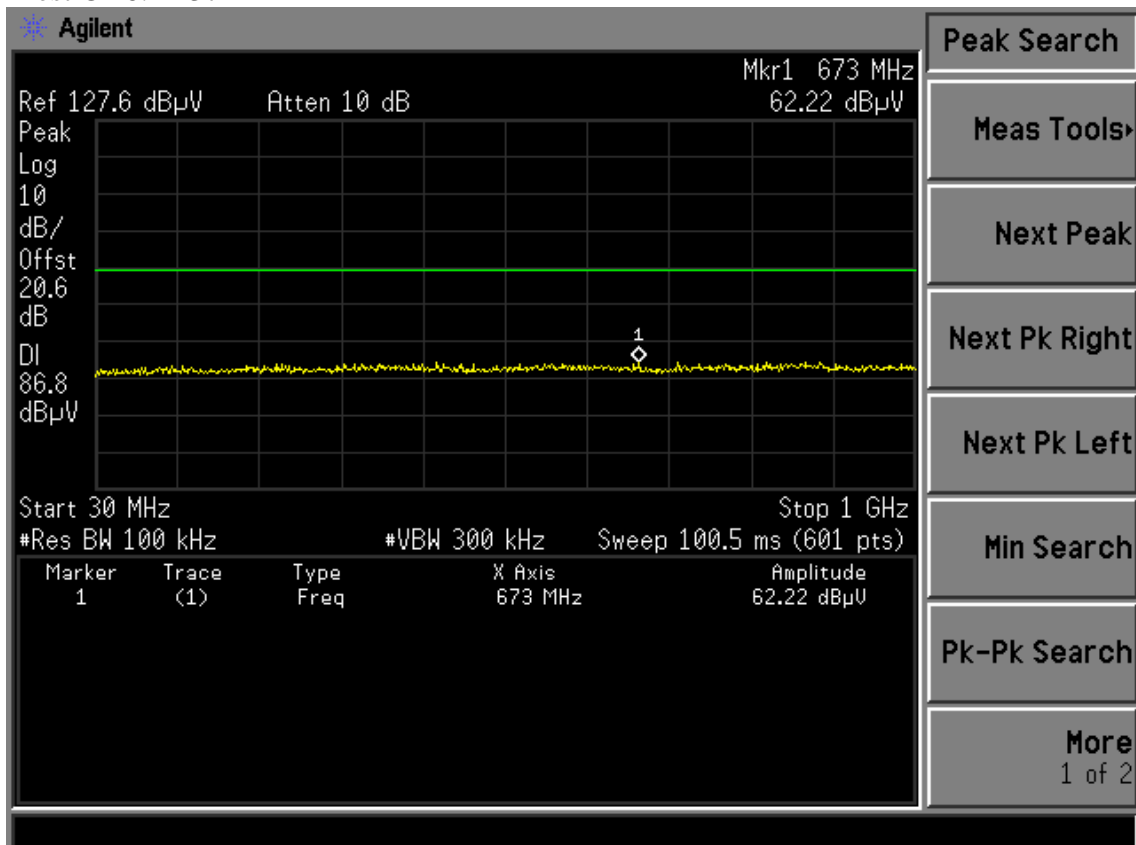
Test Mode: IEEE 802.11b TX

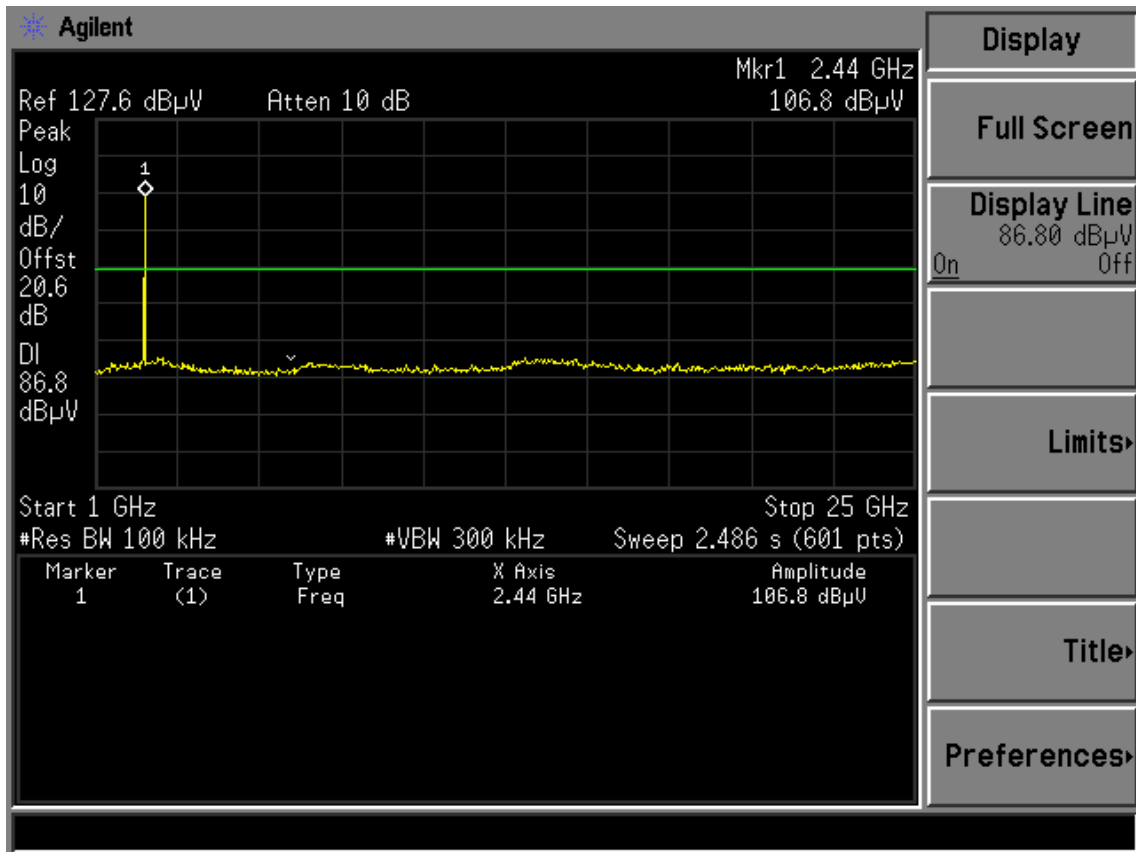
Test CH1: 2412MHz



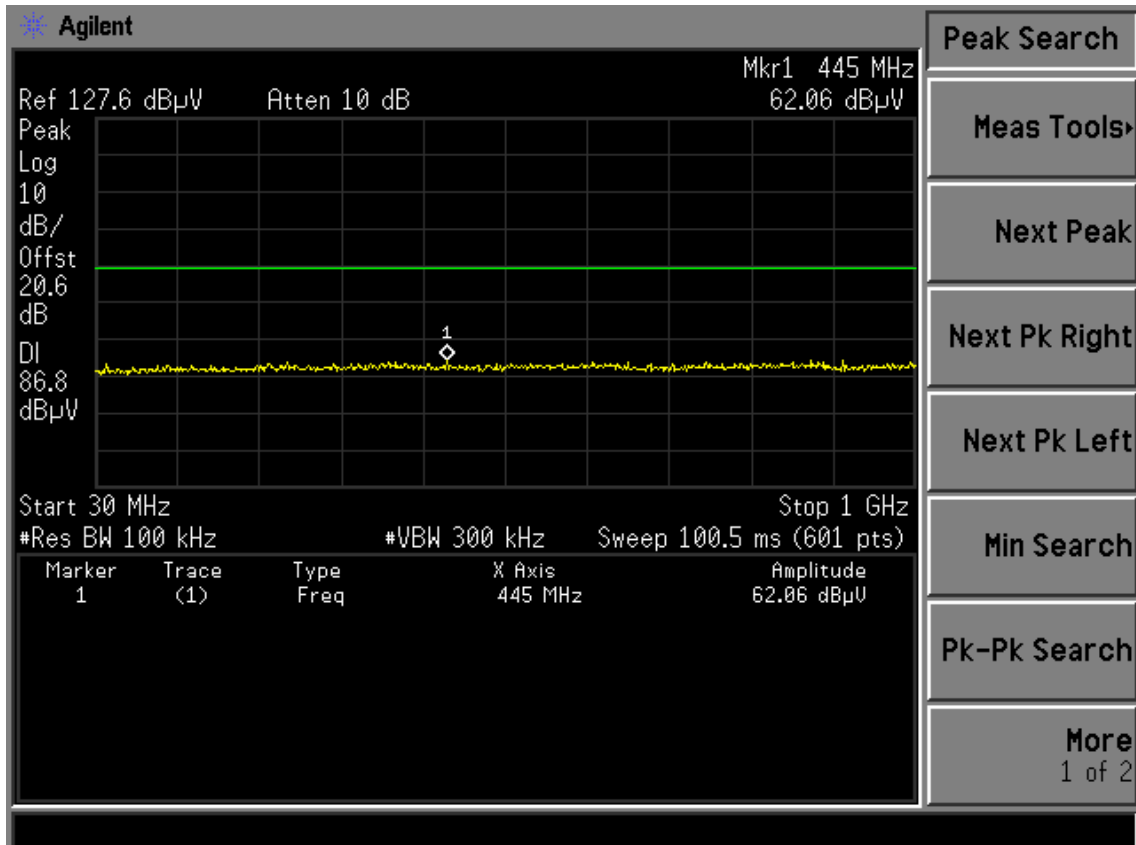


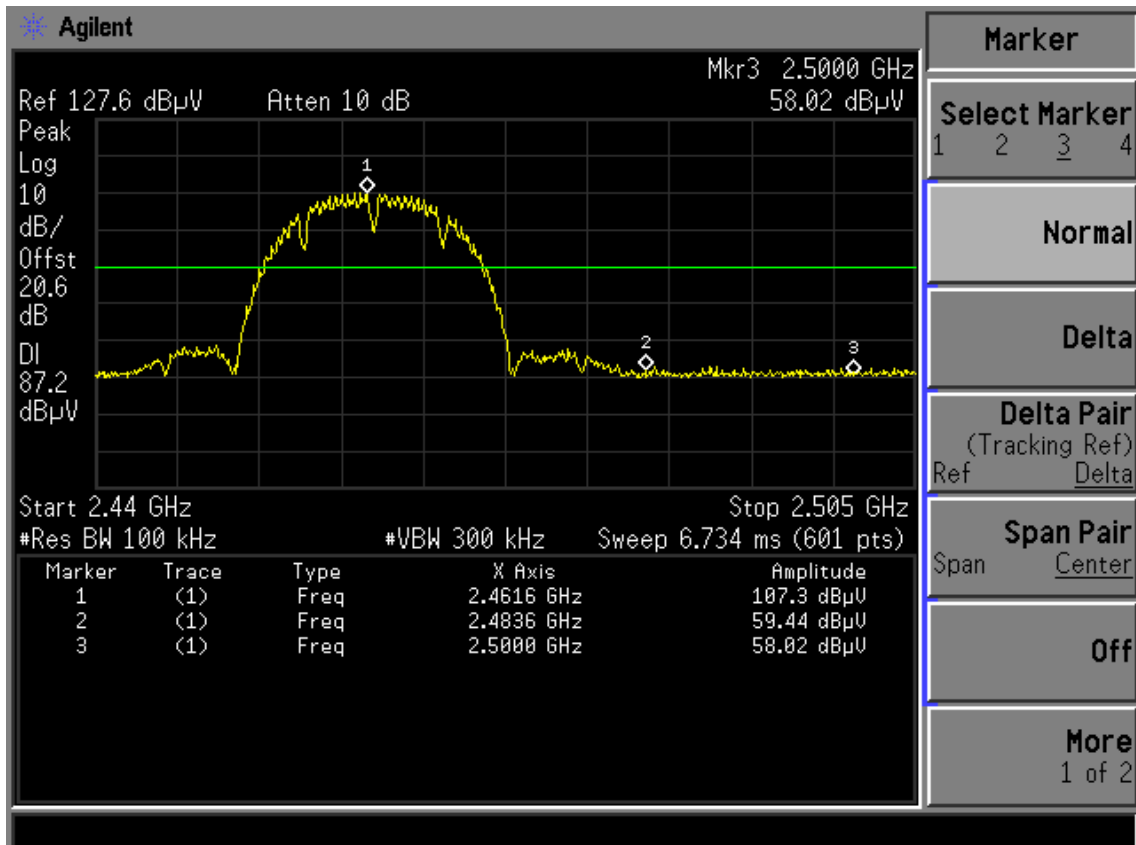
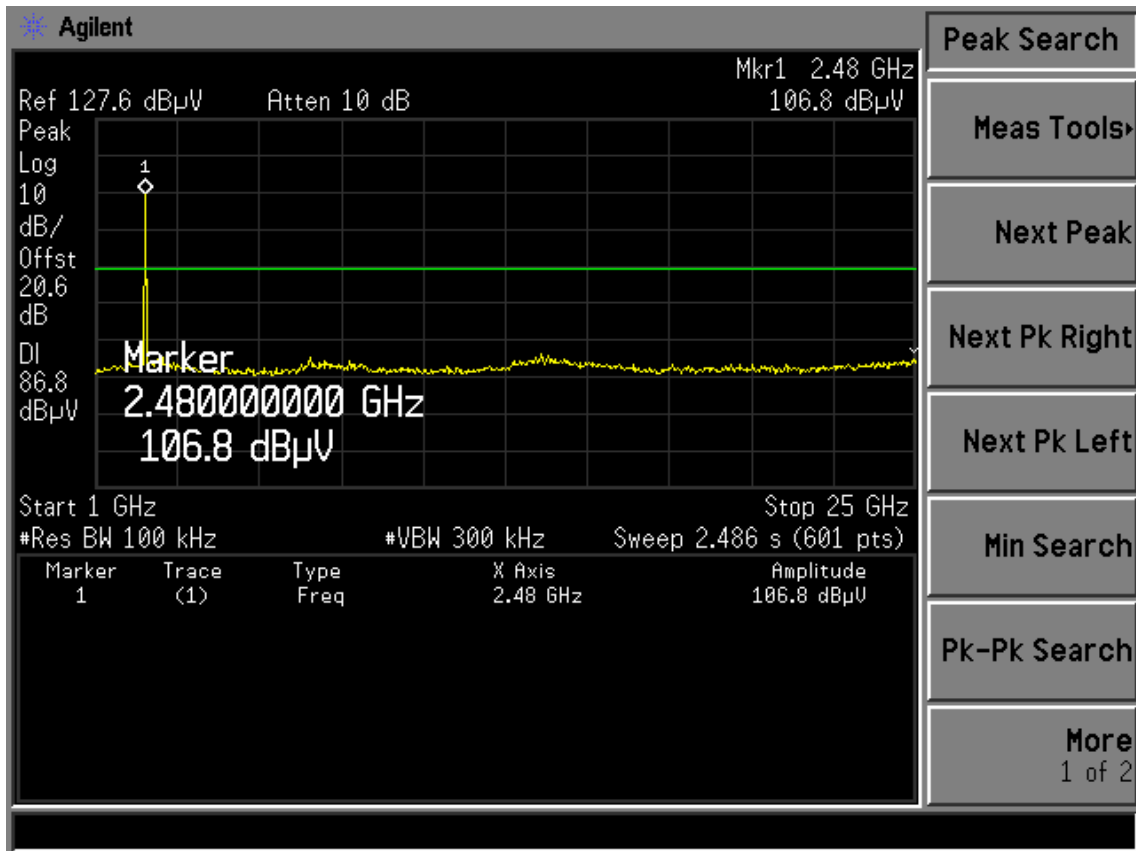
Test CH6: 2437MHz





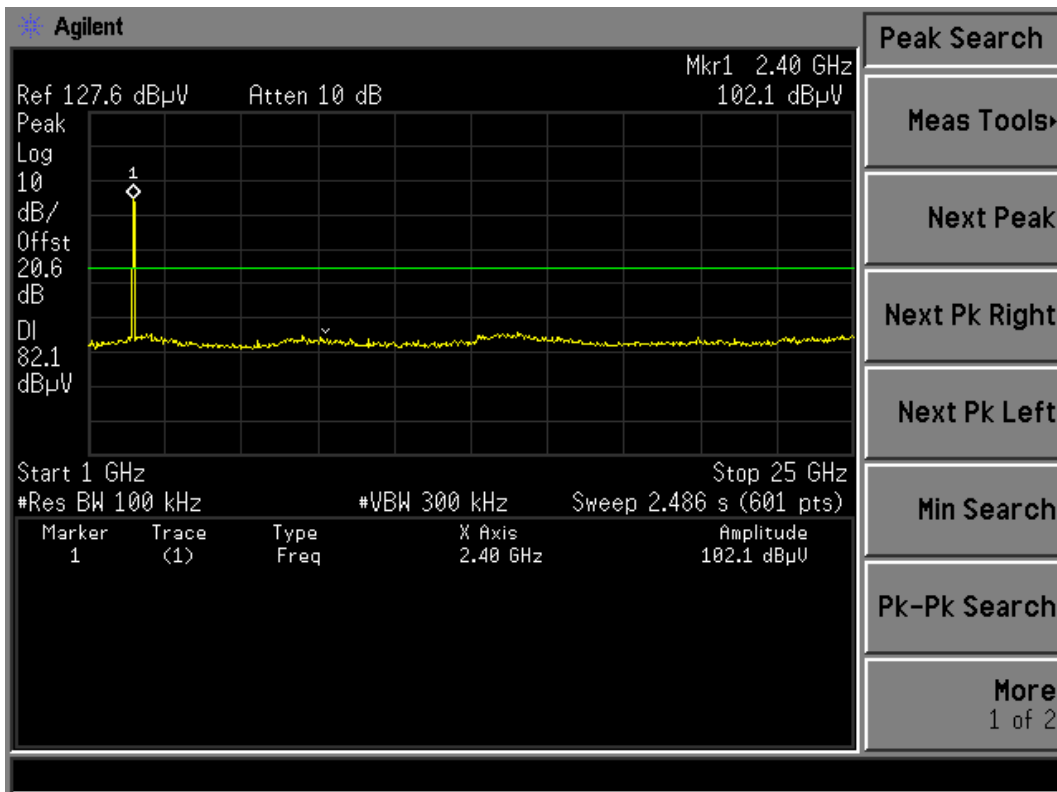
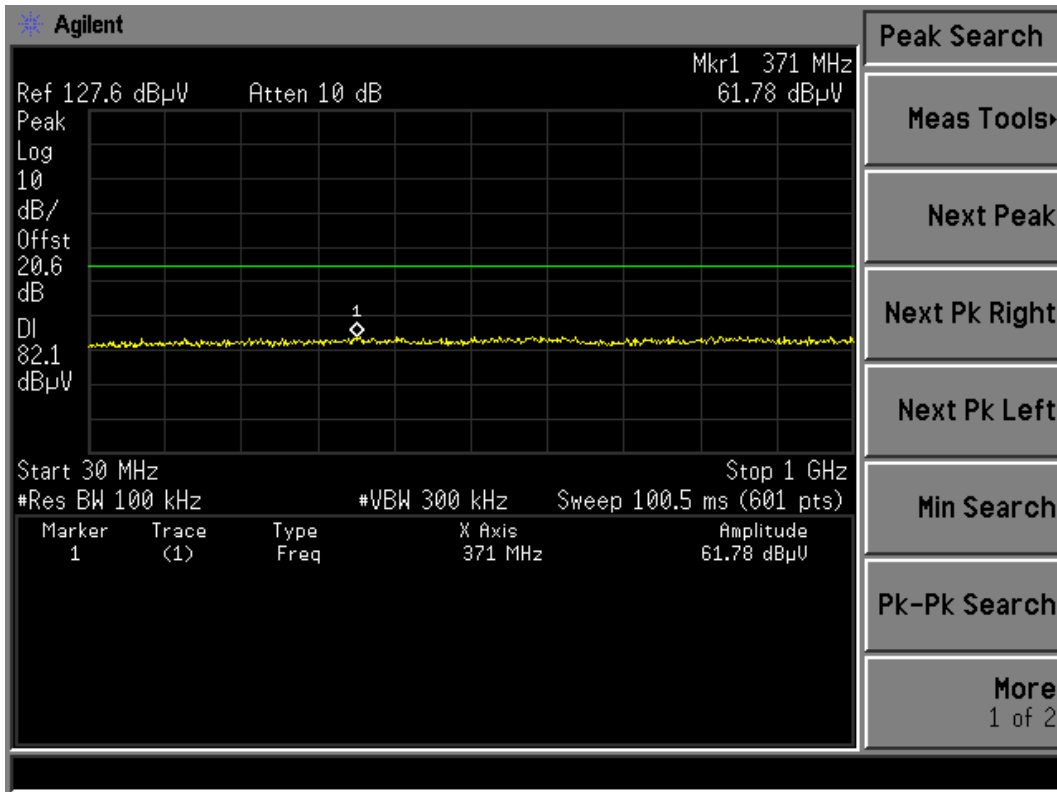
Test CH11: 2462MHz

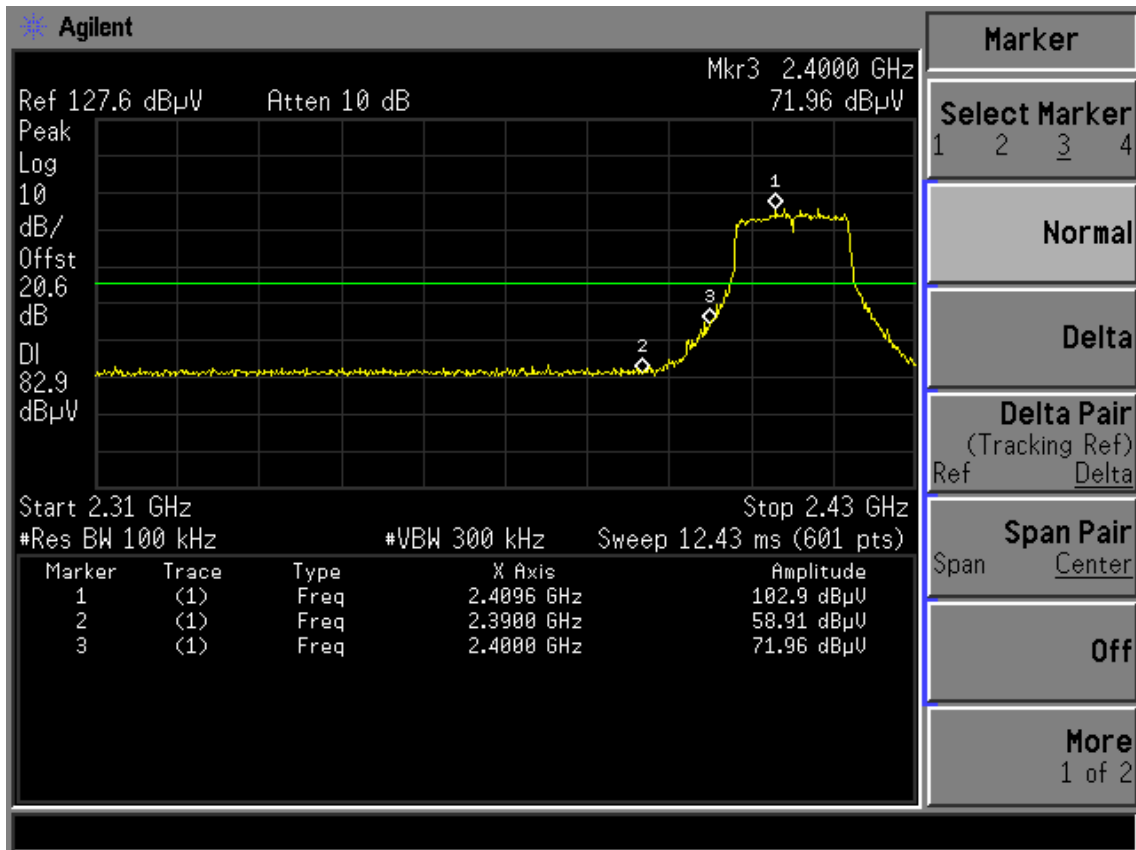




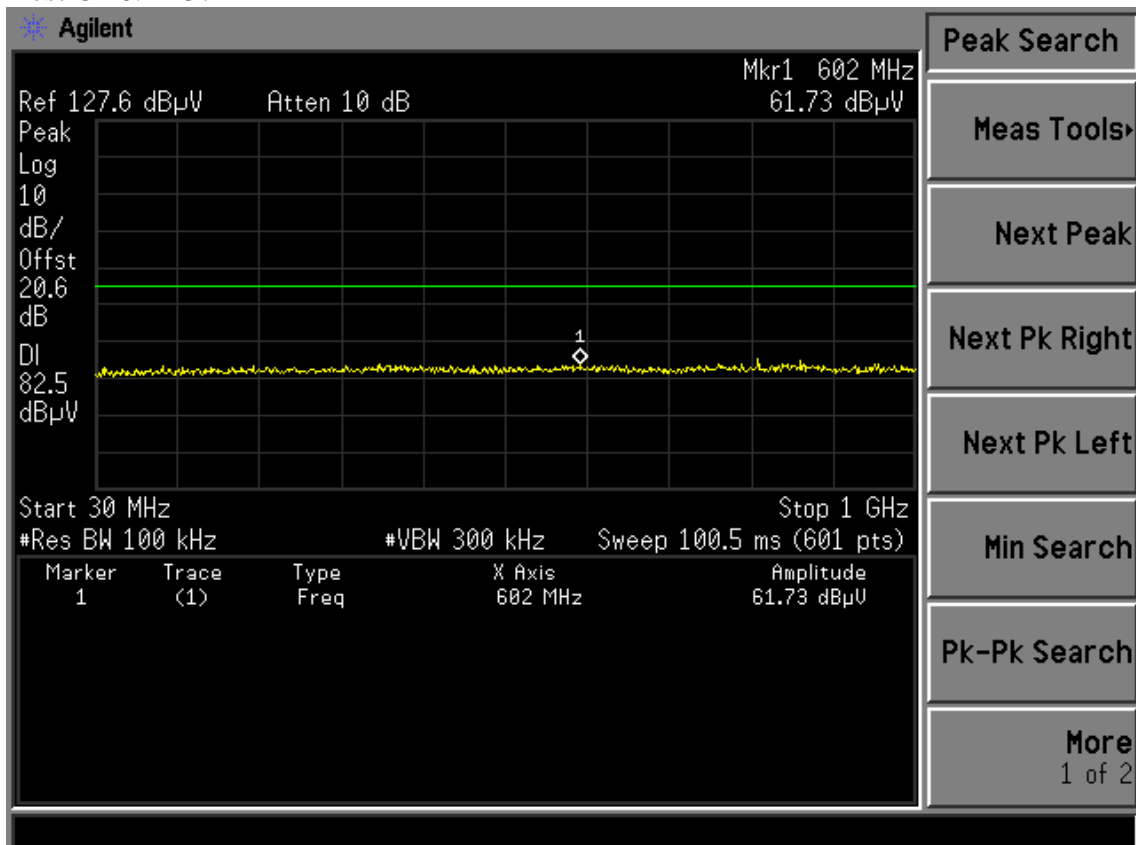
Test Mode: IEEE 802.11g TX

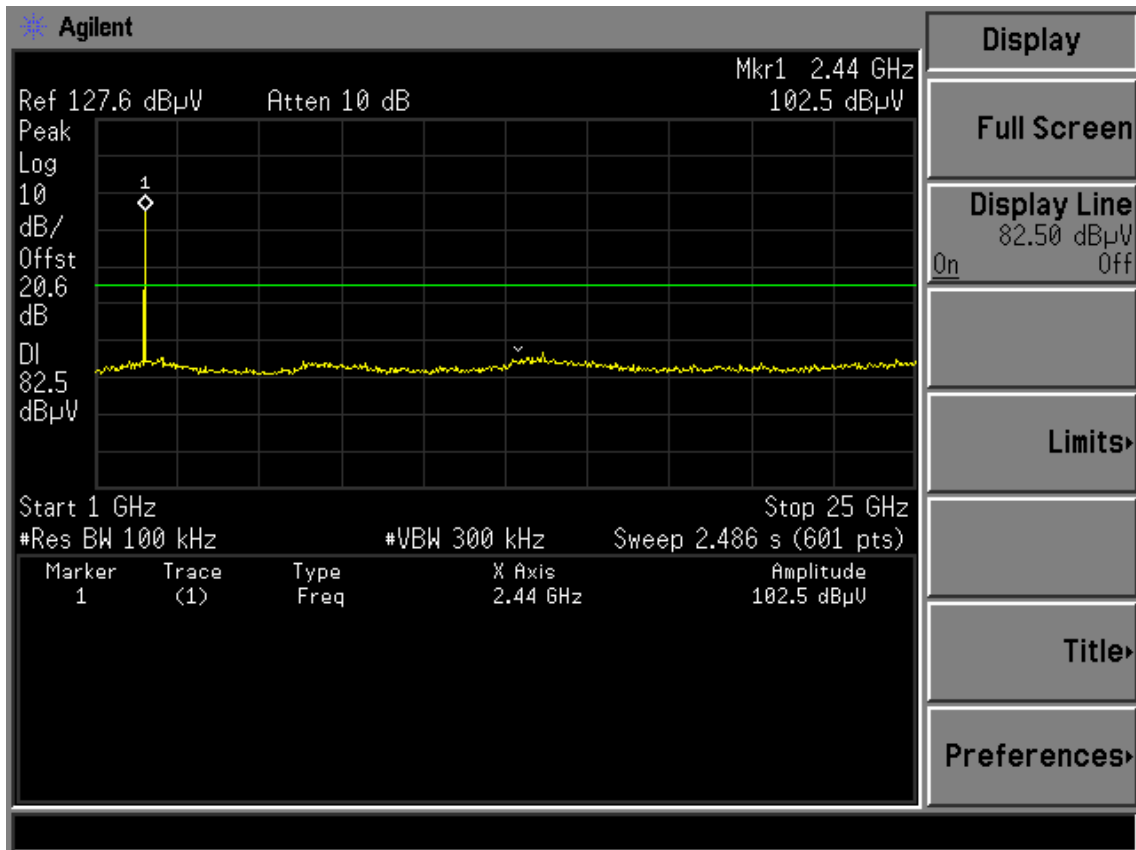
Test CH1: 2412MHz



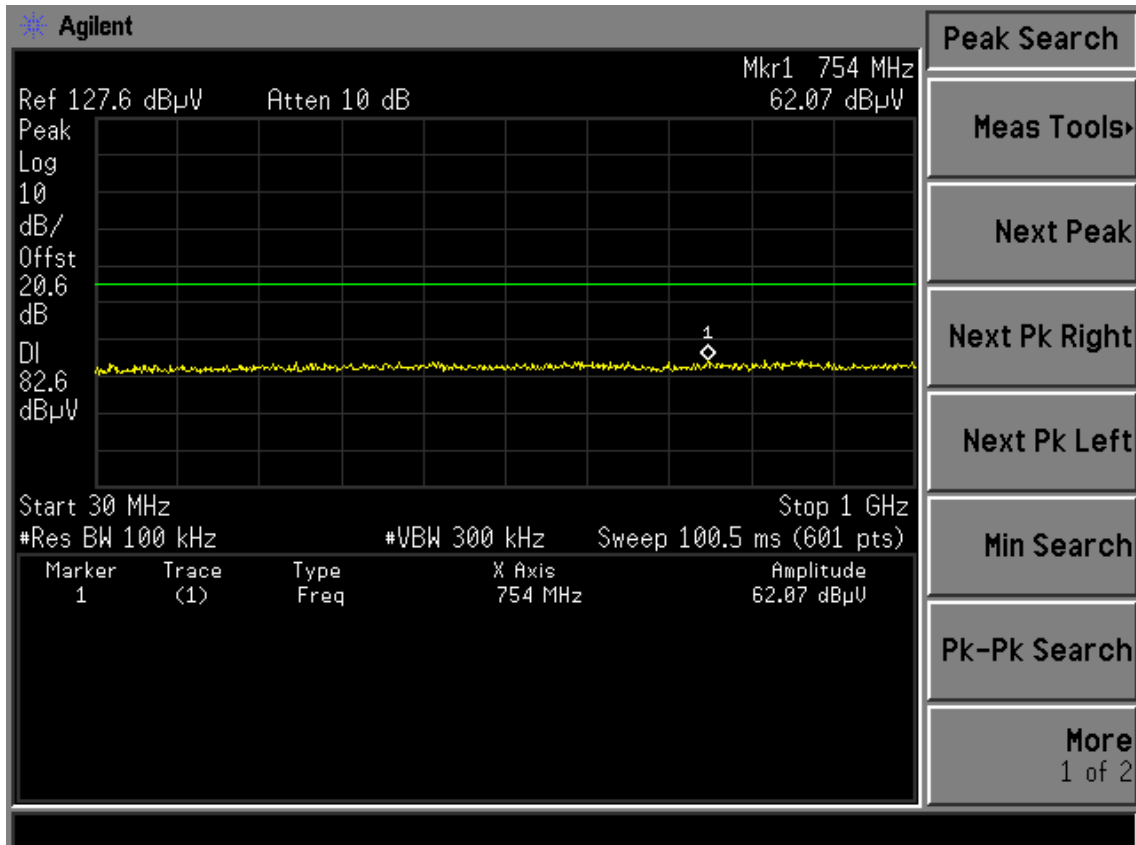


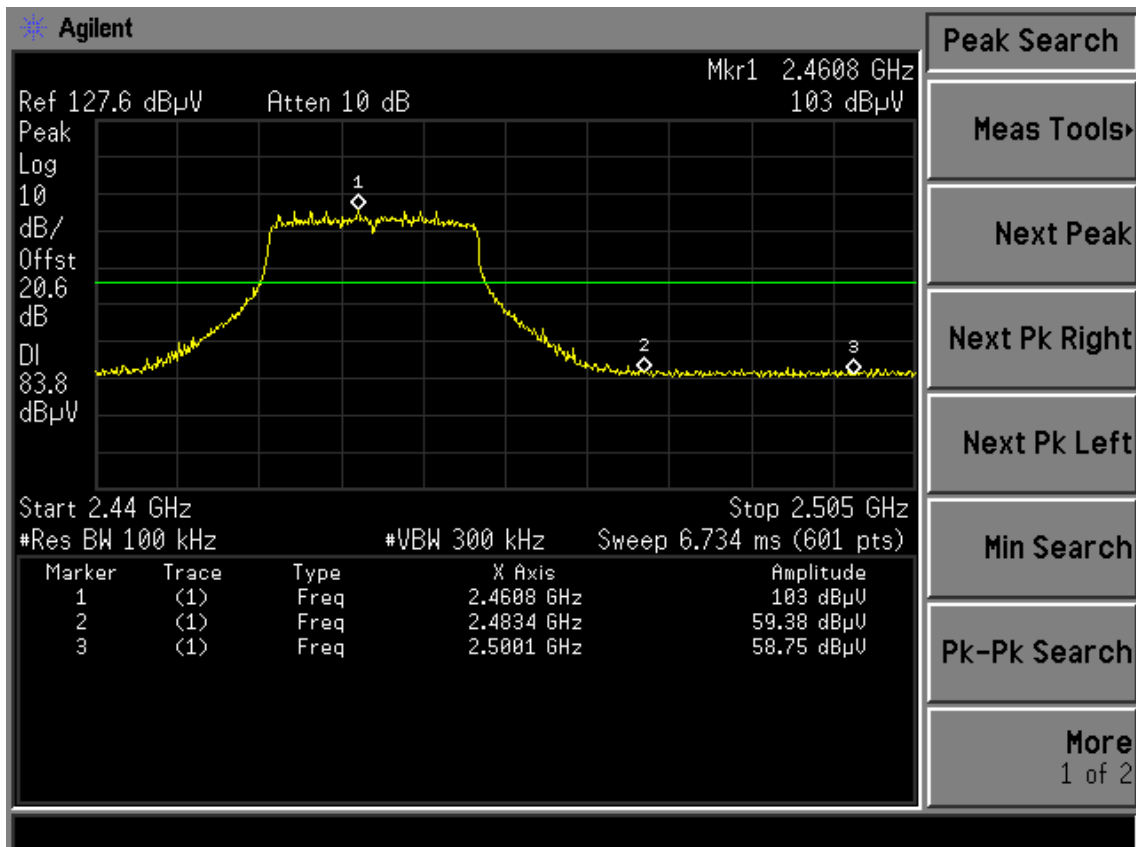
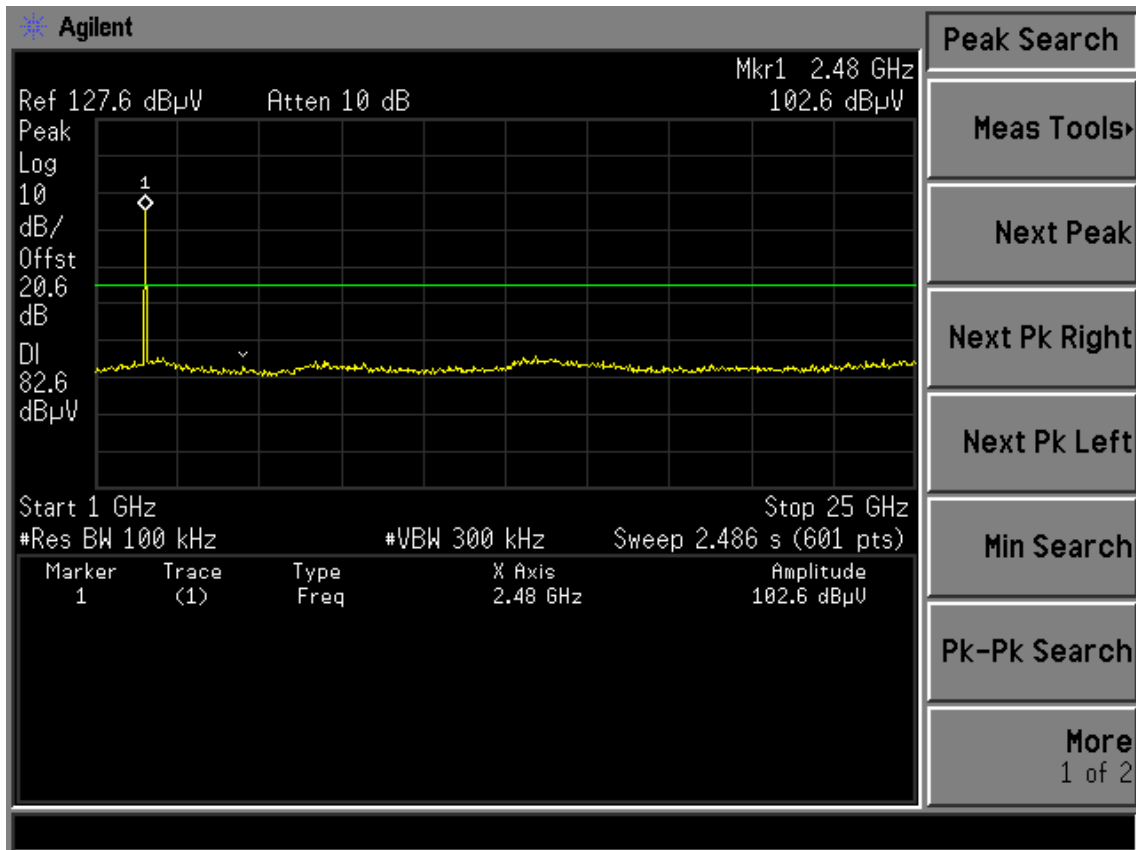
Test CH6: 2437MHz





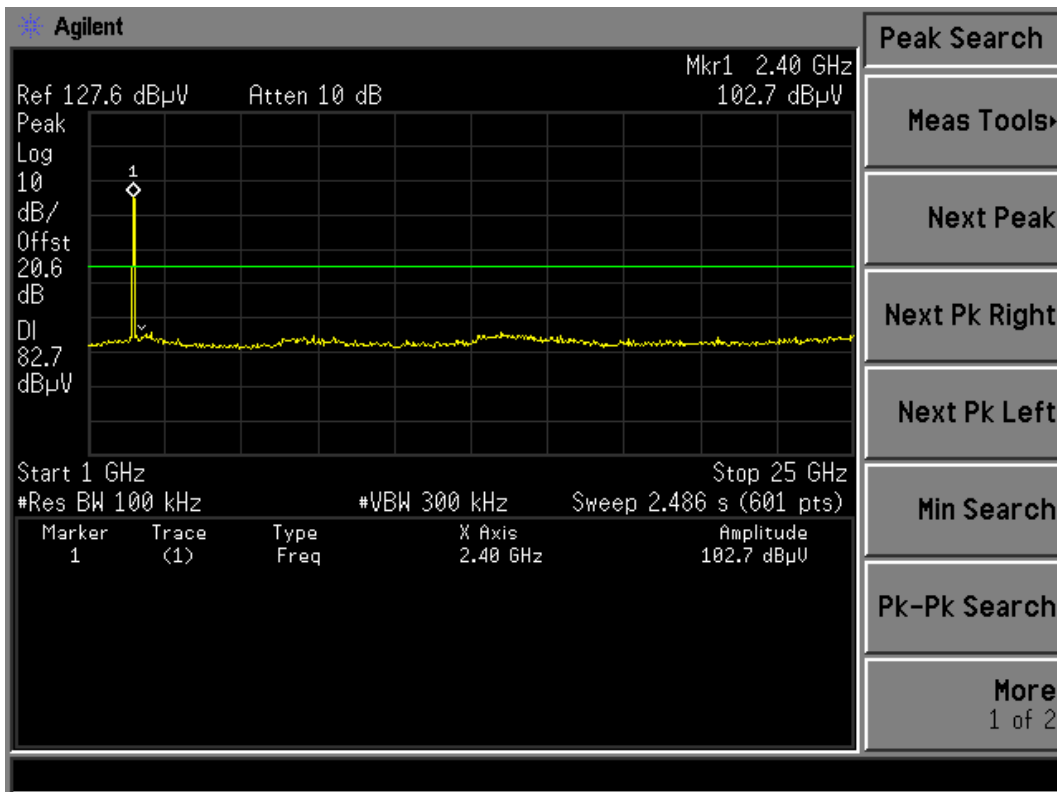
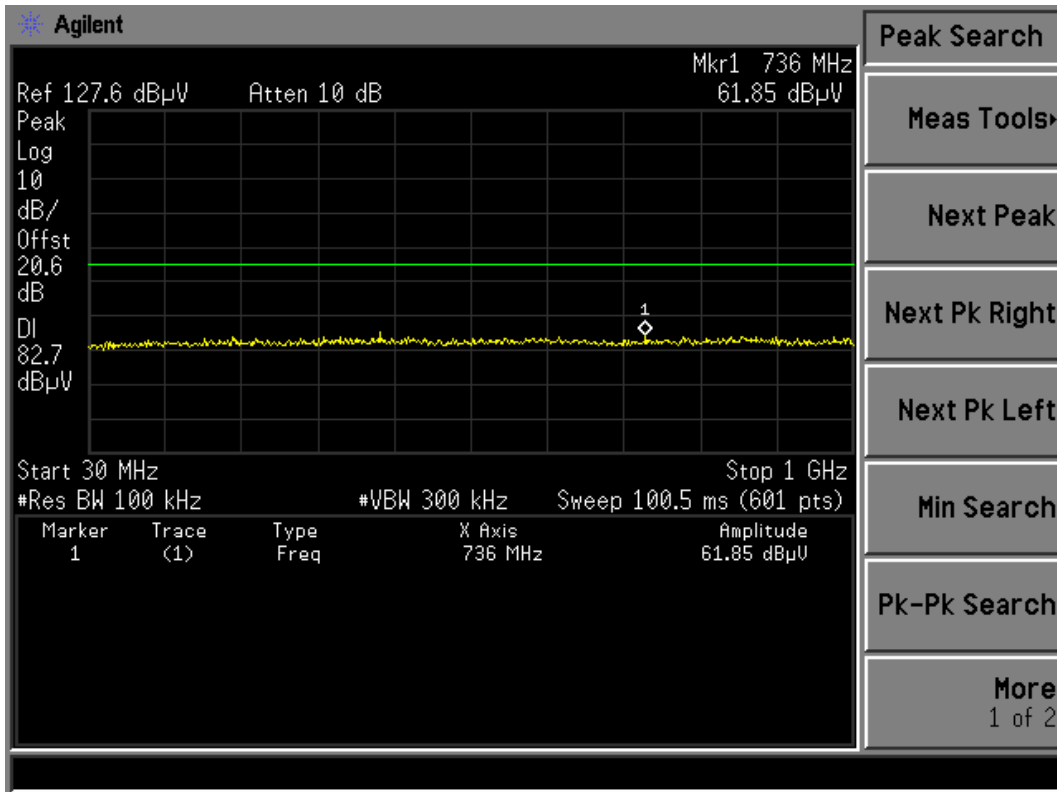
Test CH11: 2462MHz

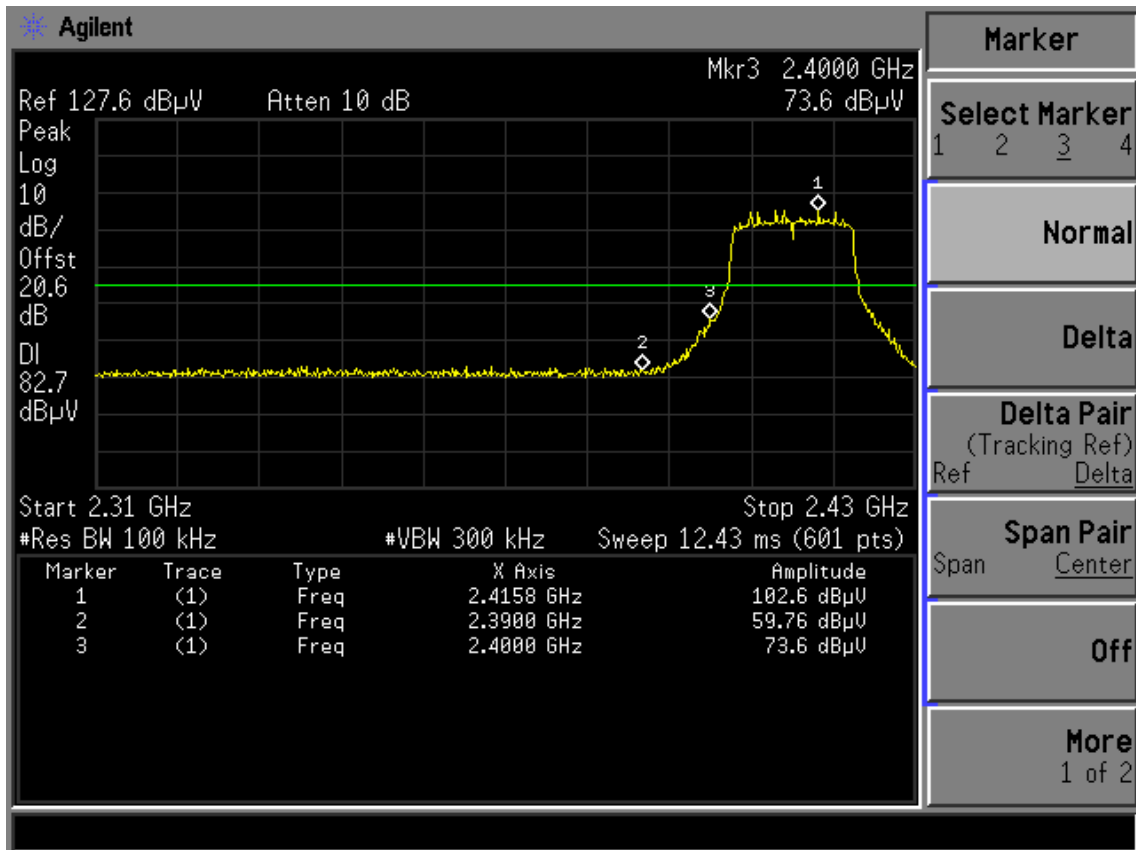




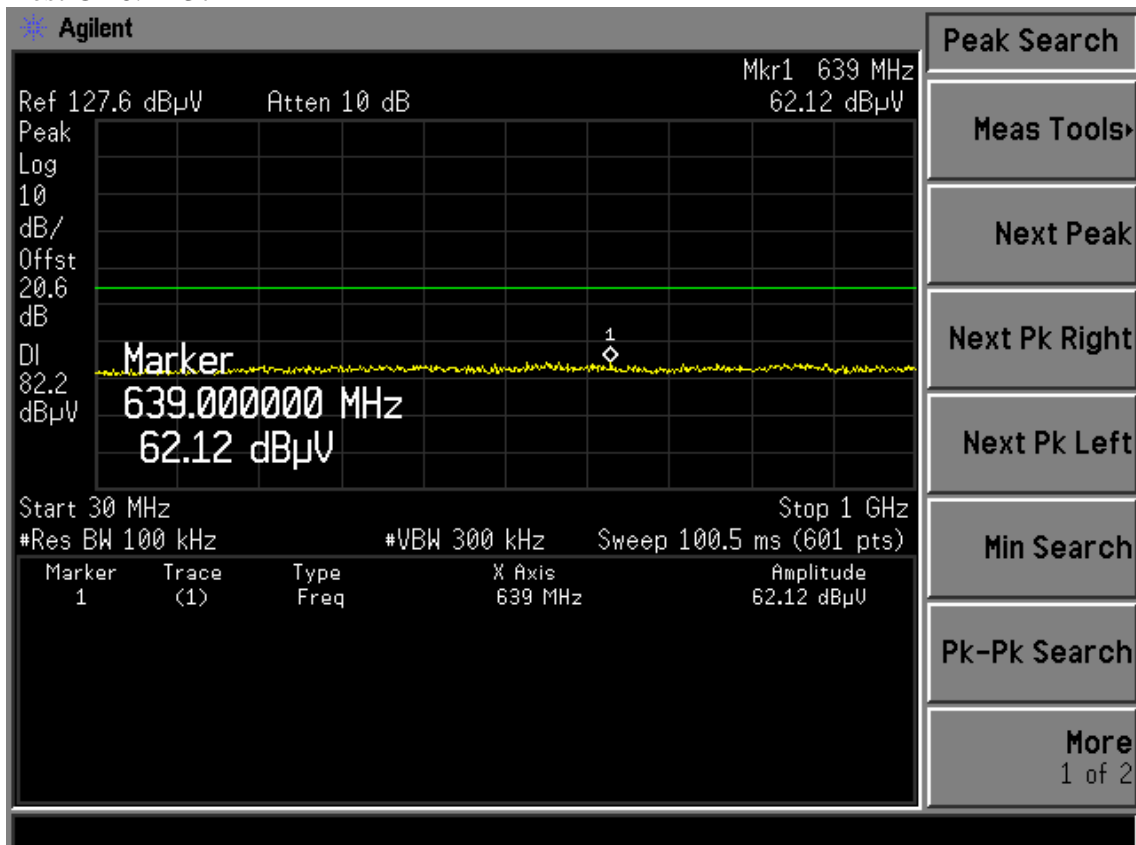
Test Mode: IEEE 802.11n HT20 TX

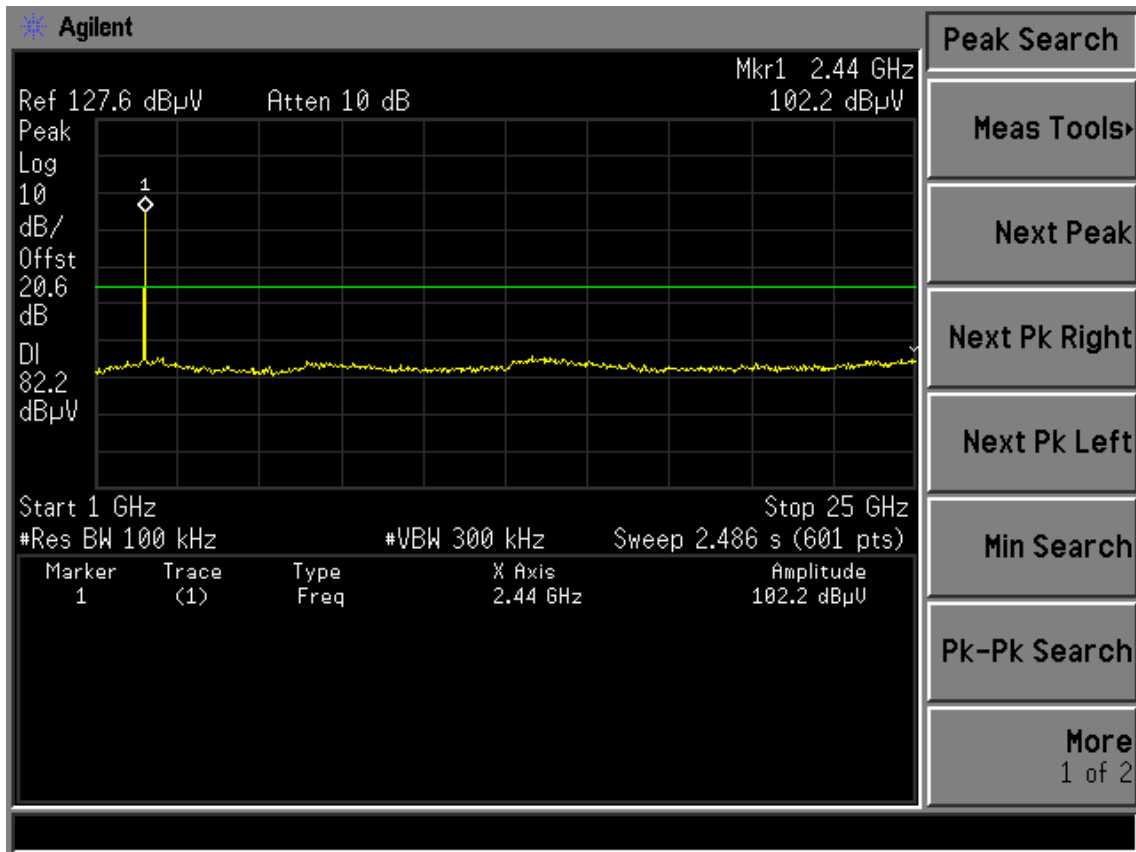
Test CH1: 2412MHz



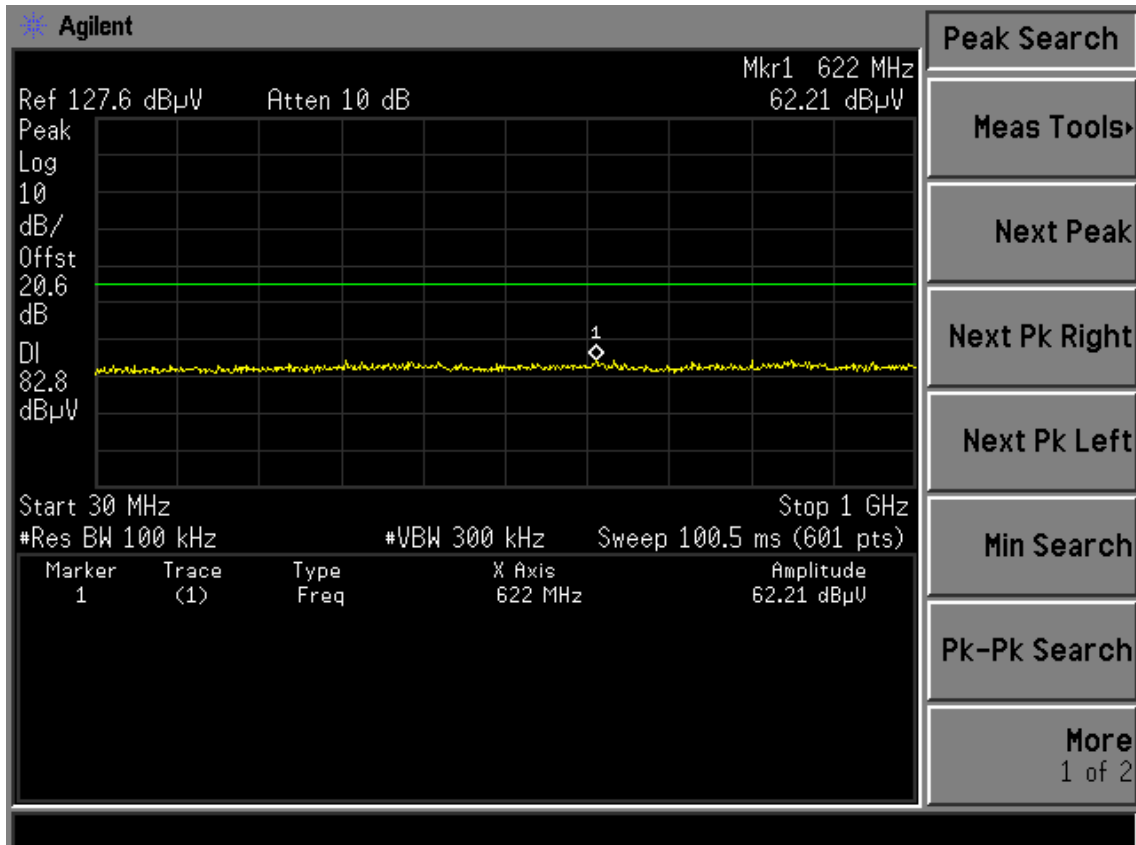


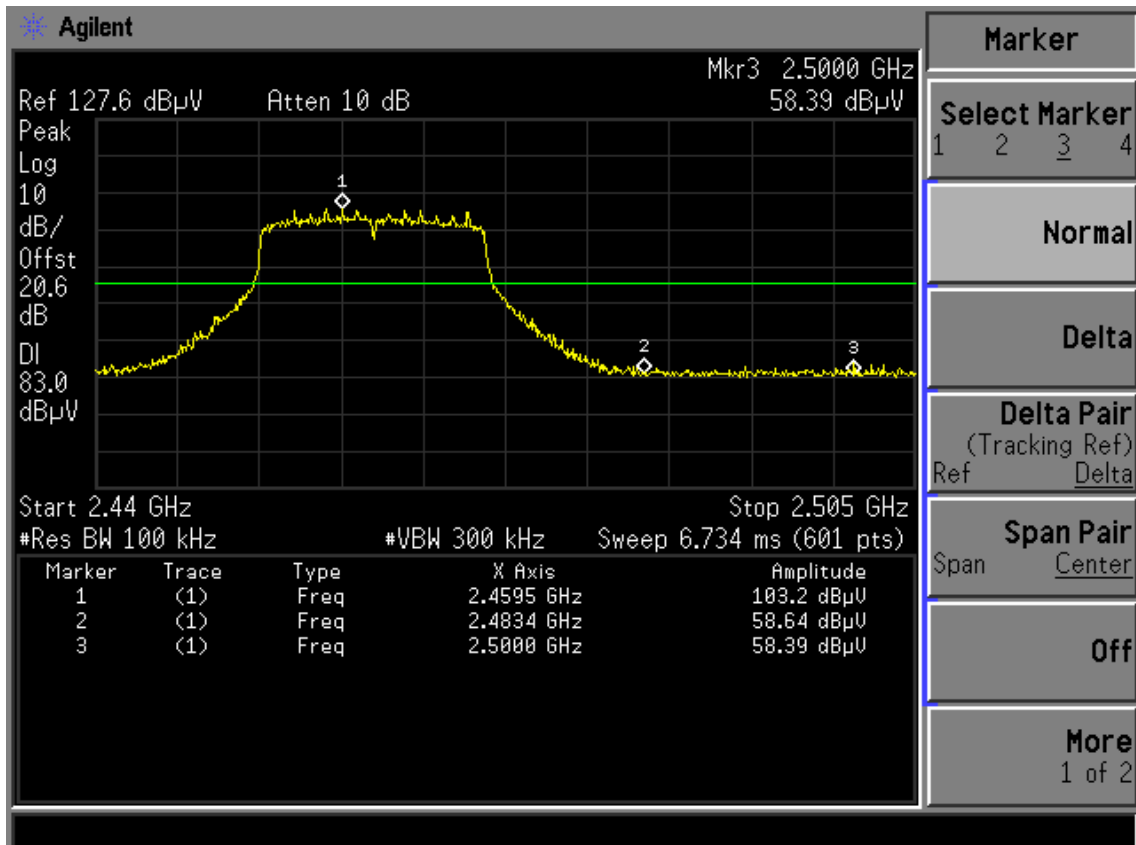
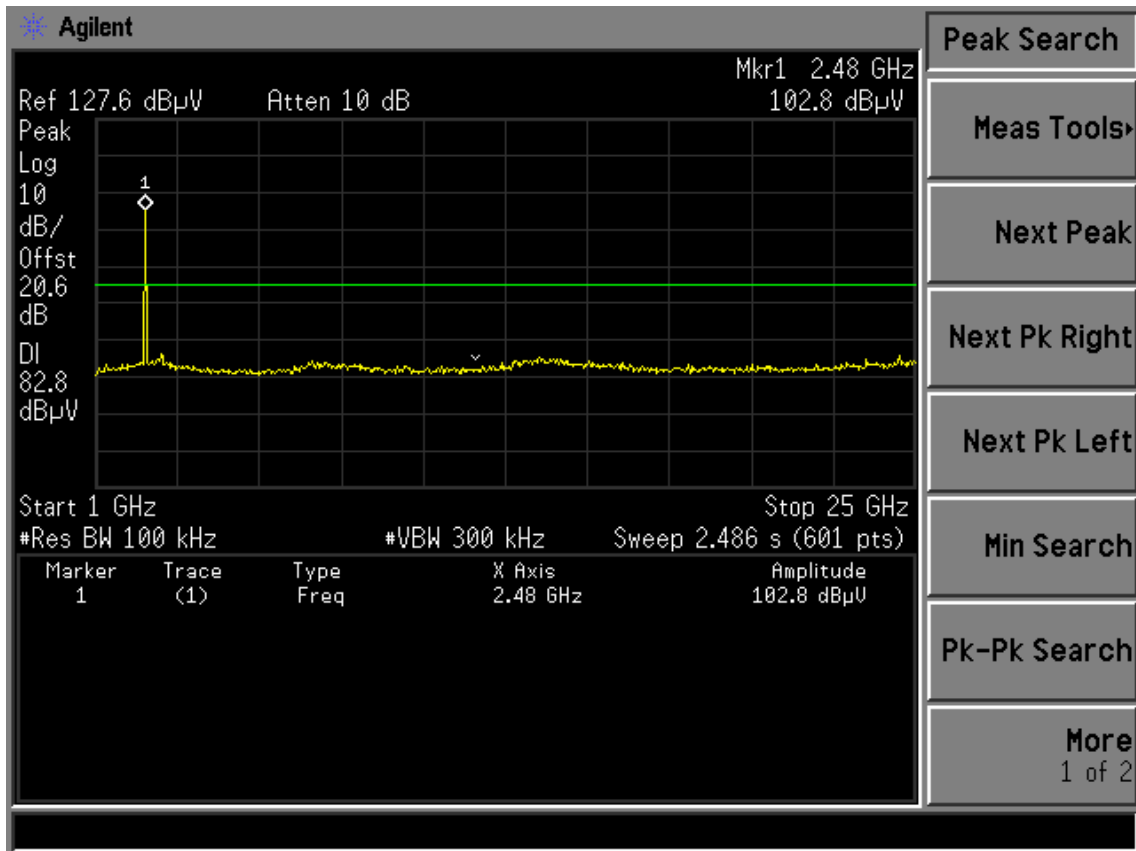
Test CH6: 2437MHz



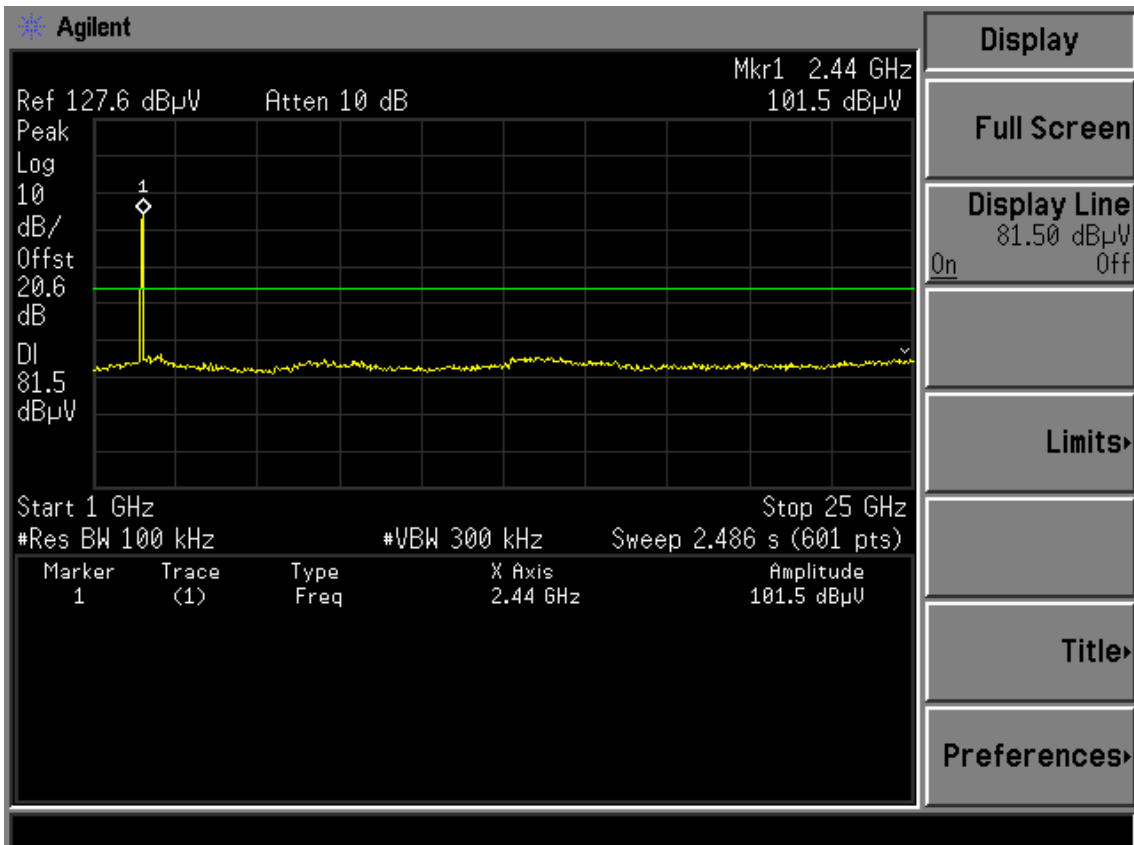
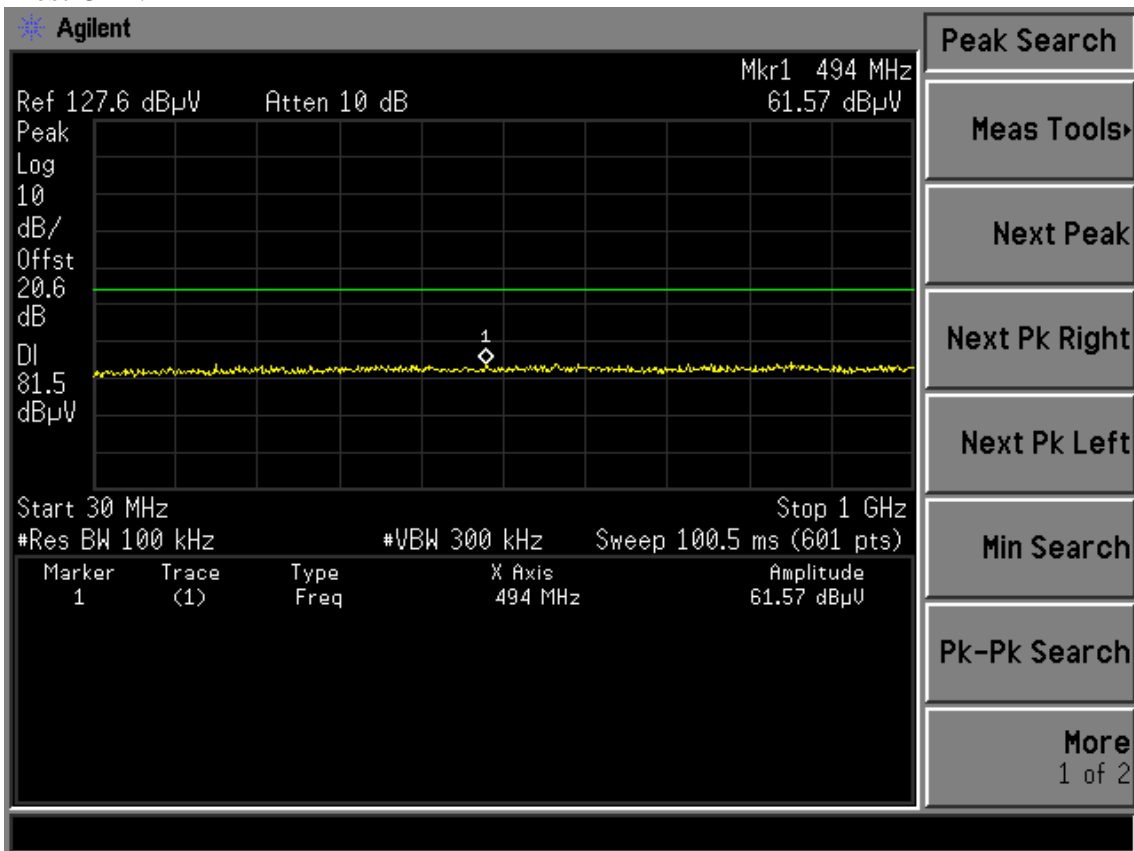


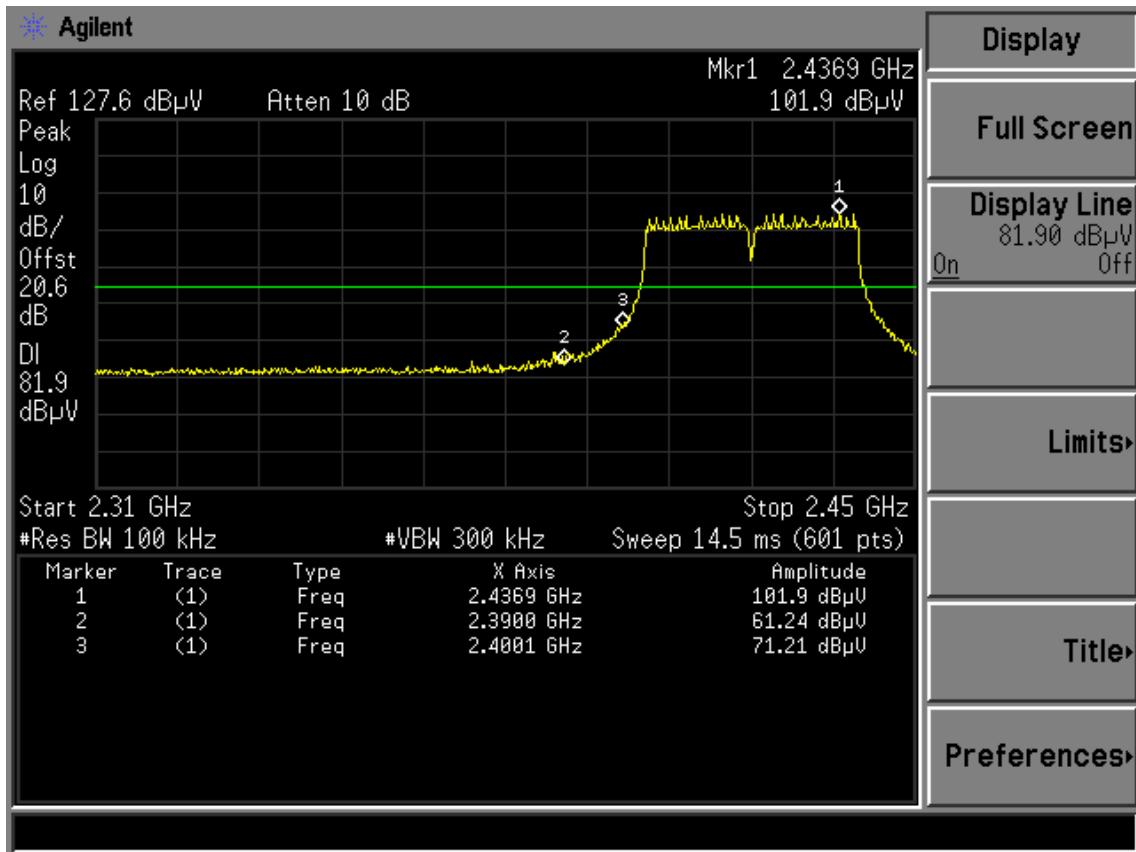
Test CH11: 2462MHz



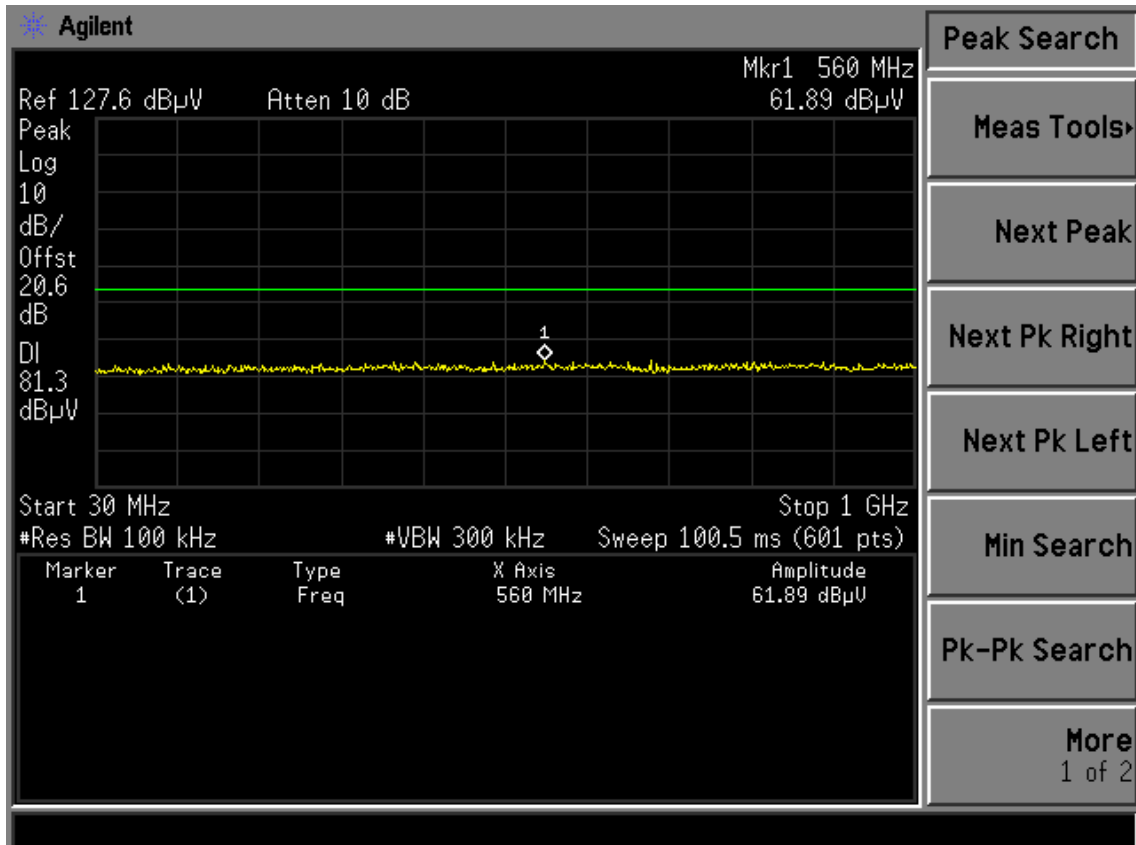


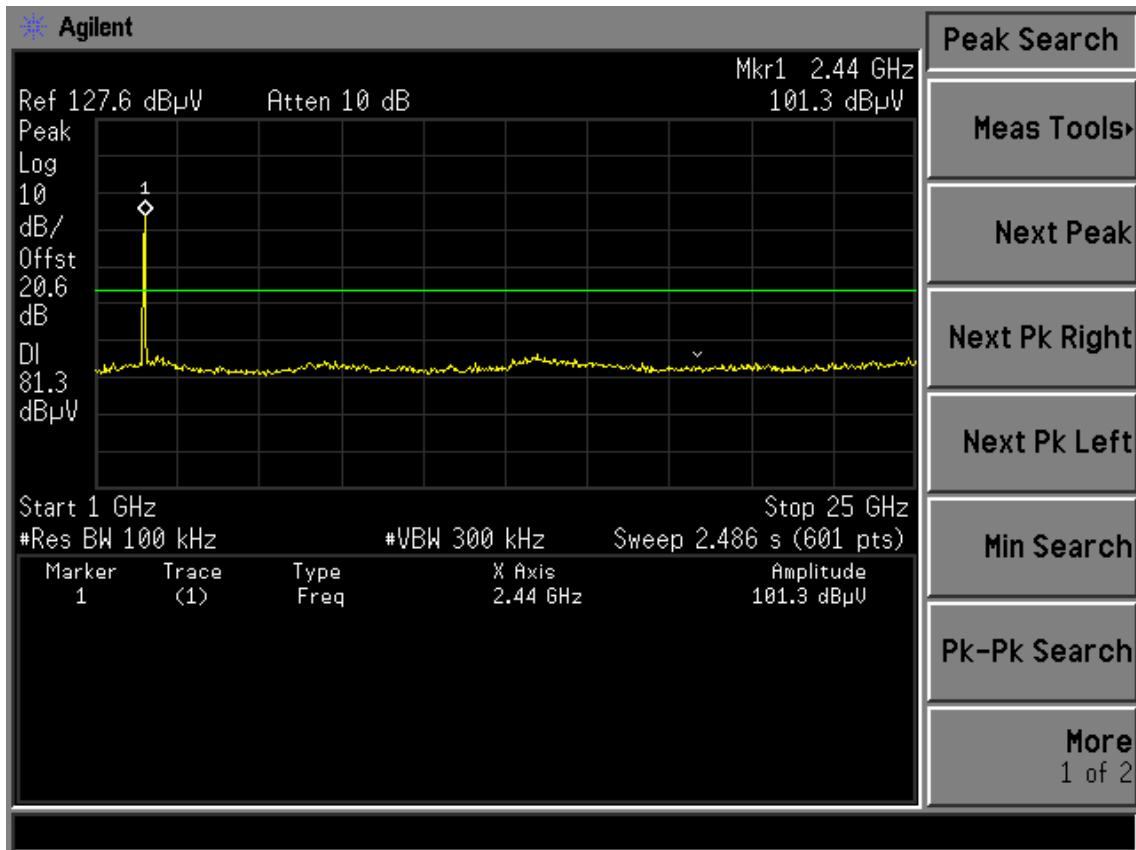
Test Mode: IEEE 802.11n HT40 TX
 Test CH1: 2422MHz



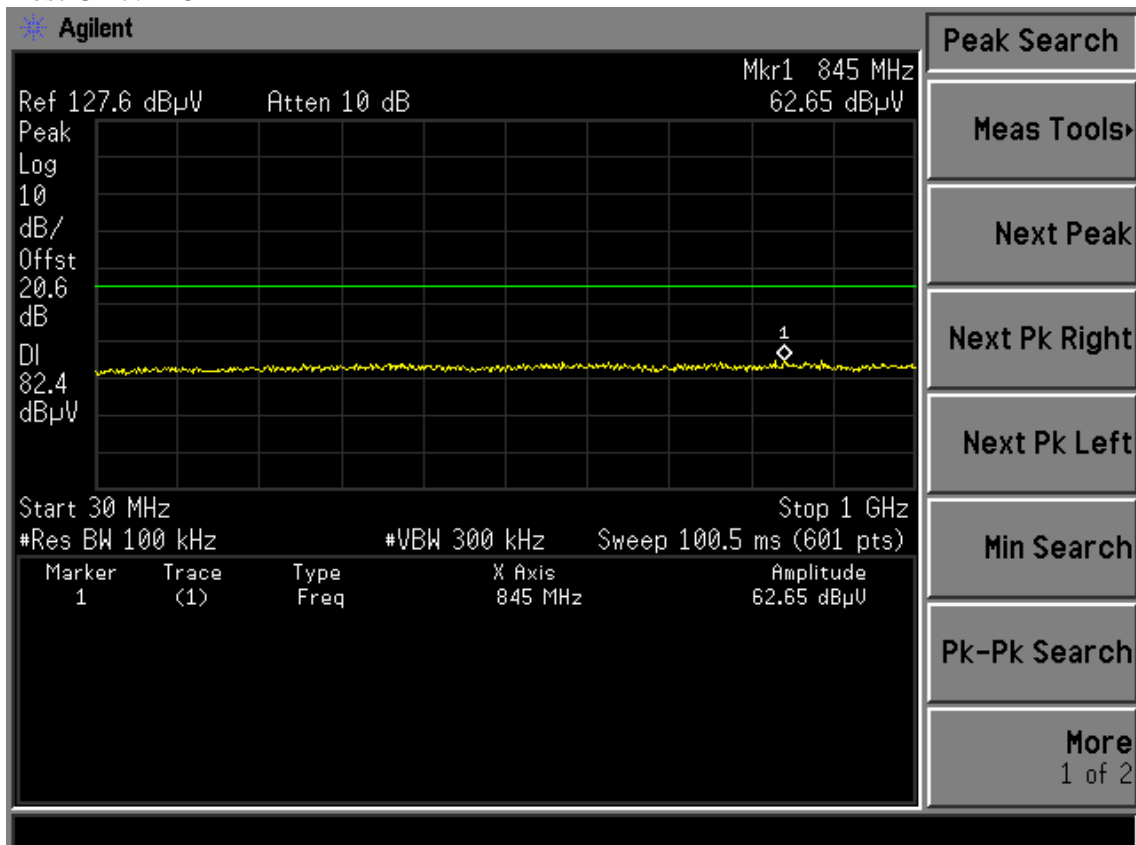


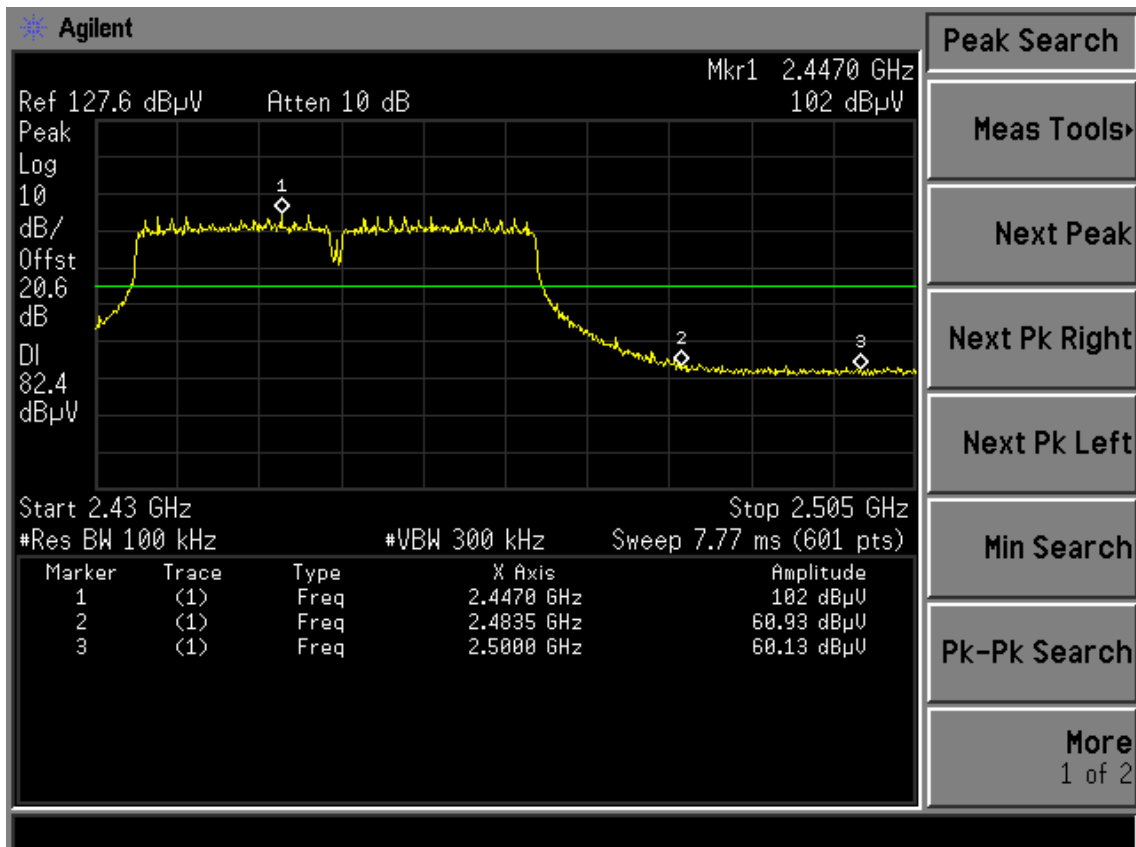
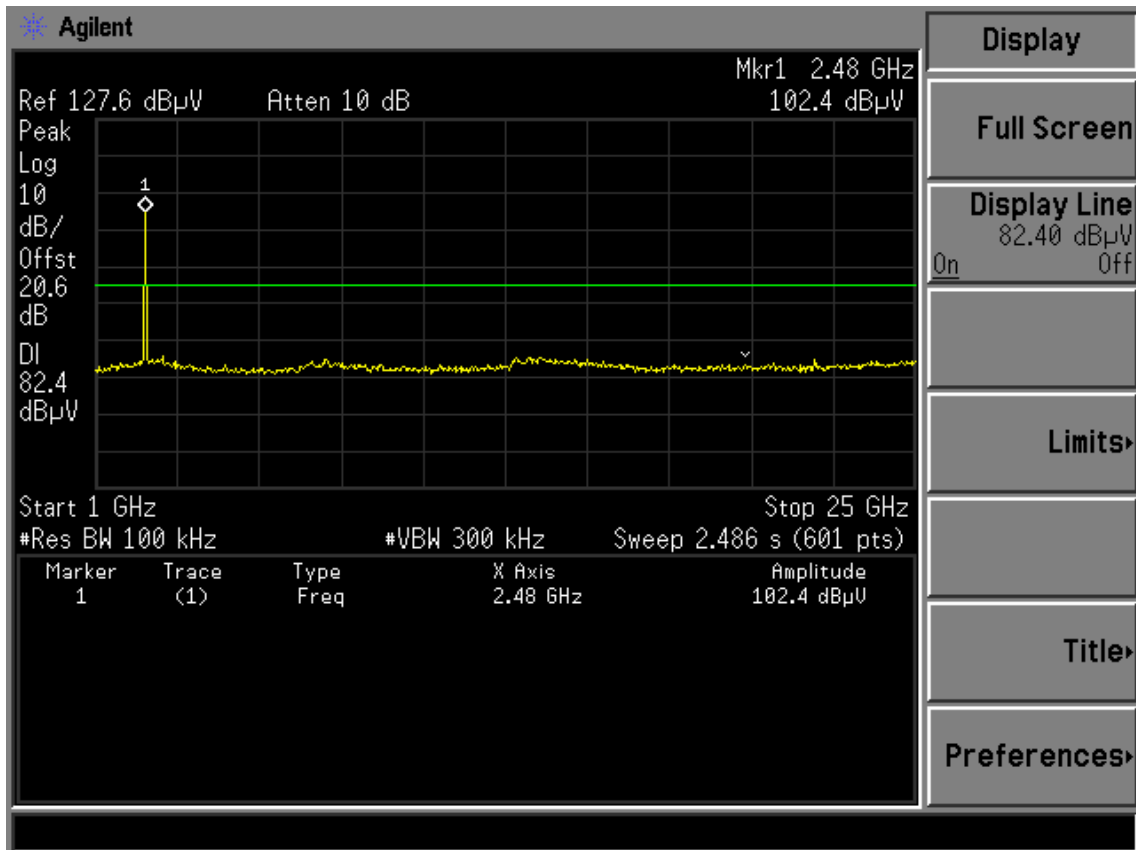
Test CH4: 2437MHz





Test CH7: 2452MHz

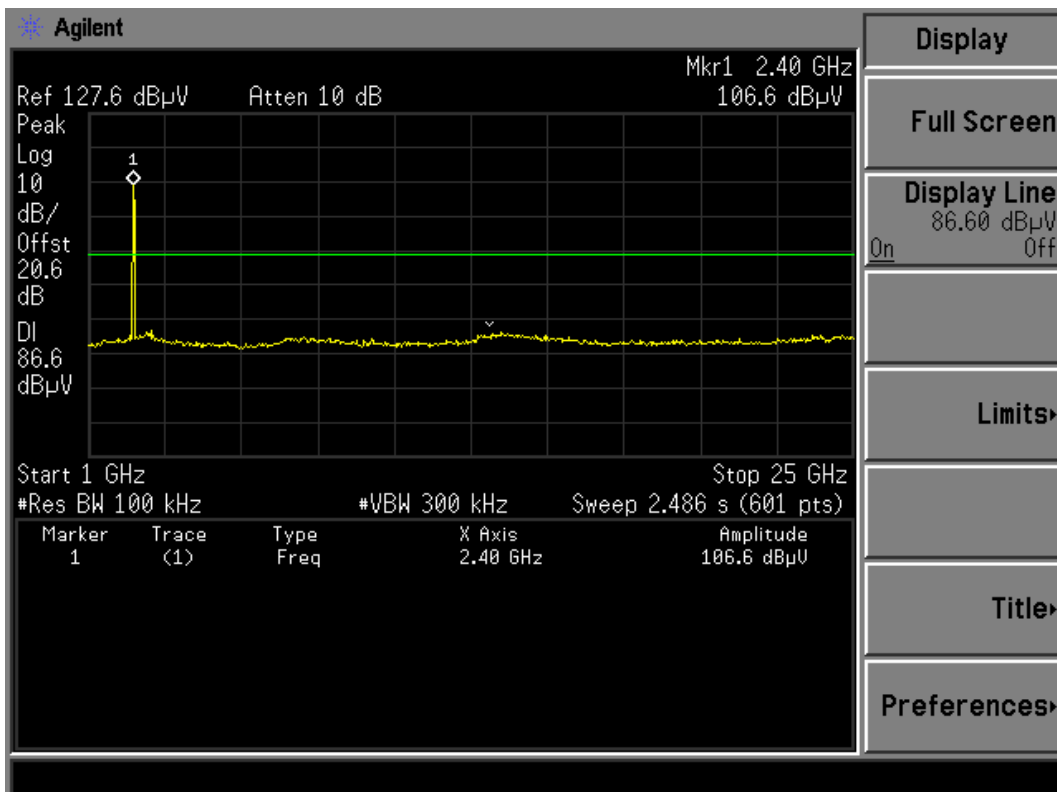
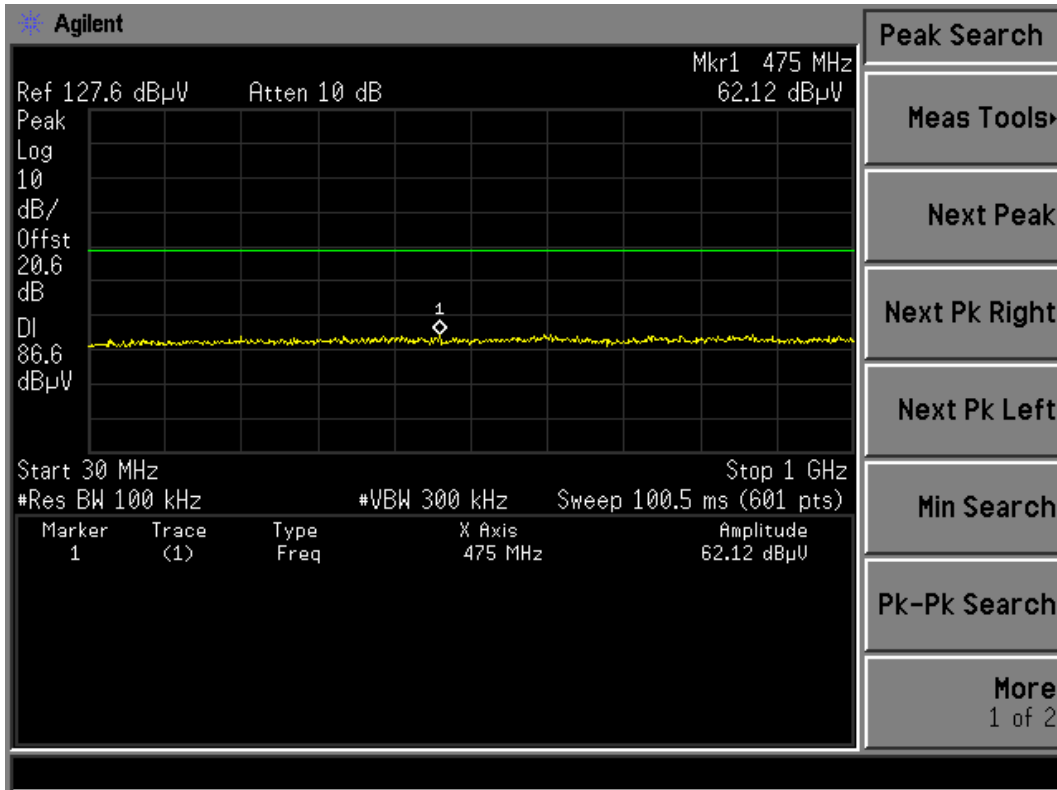


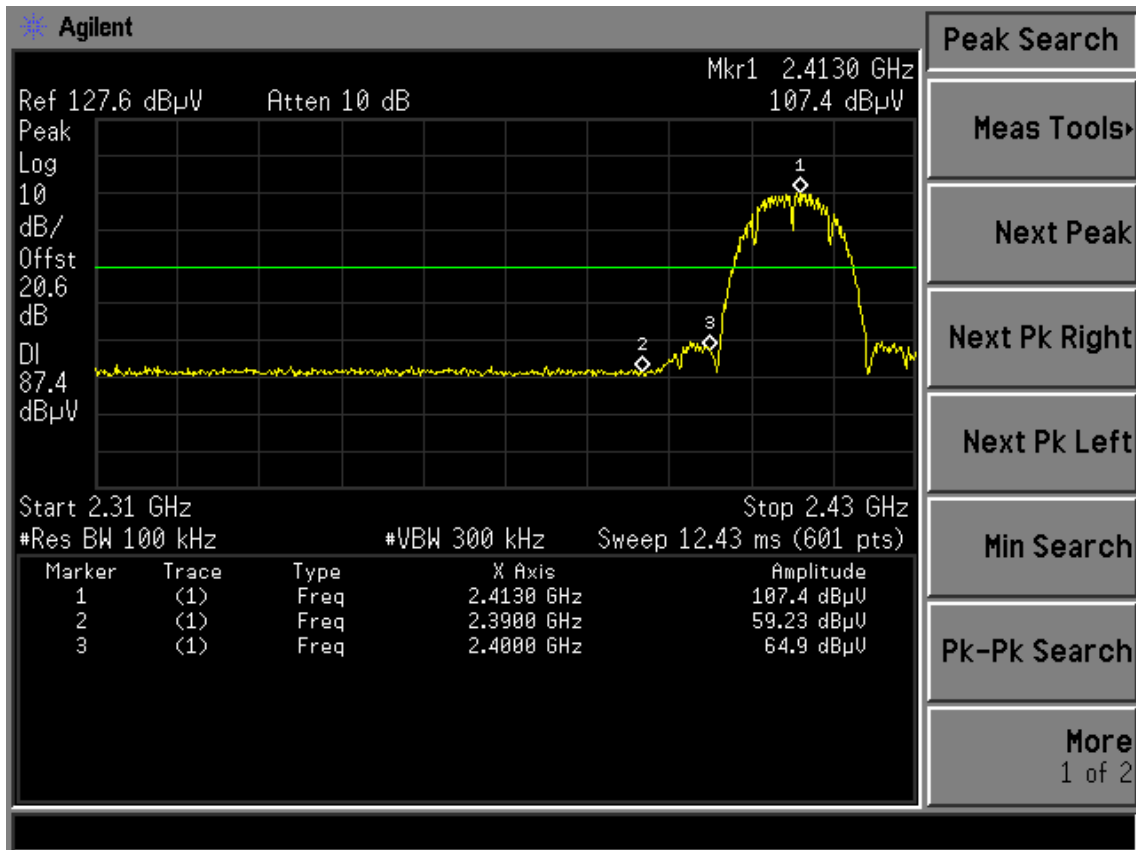


Chain 3:

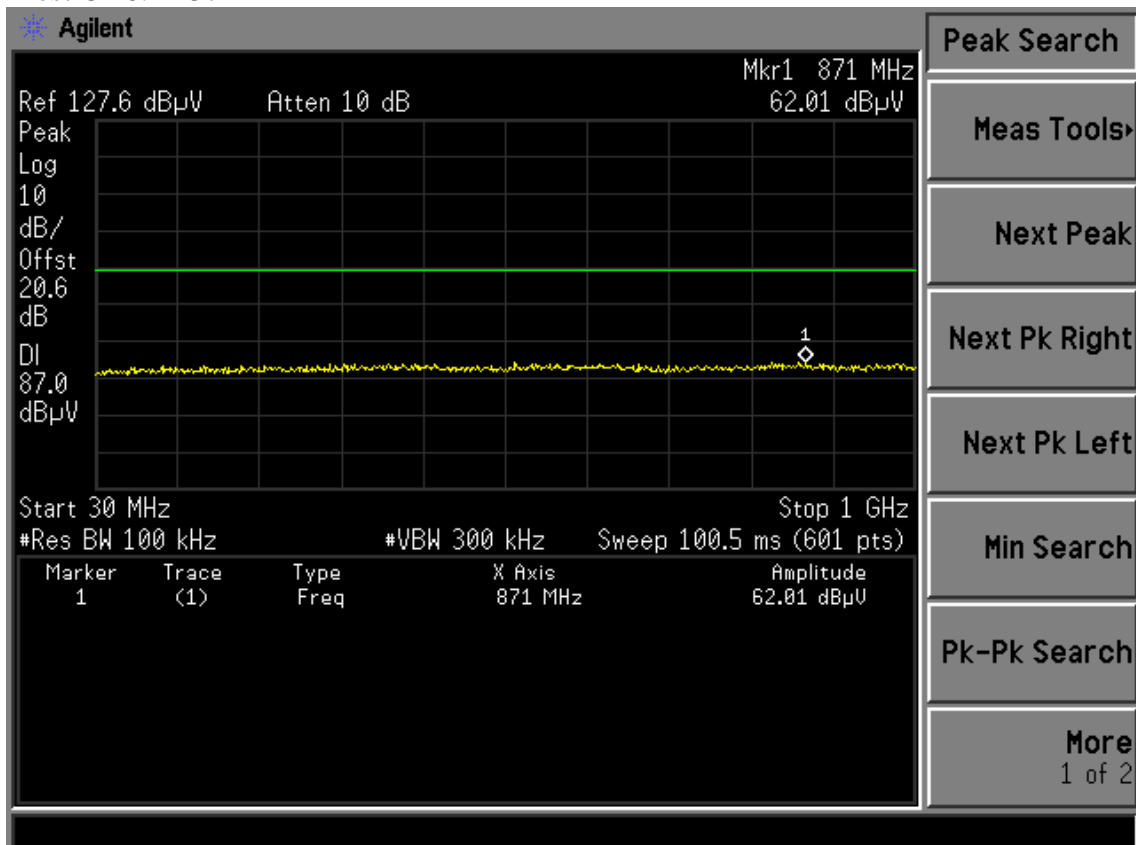
Test Mode: IEEE 802.11b TX

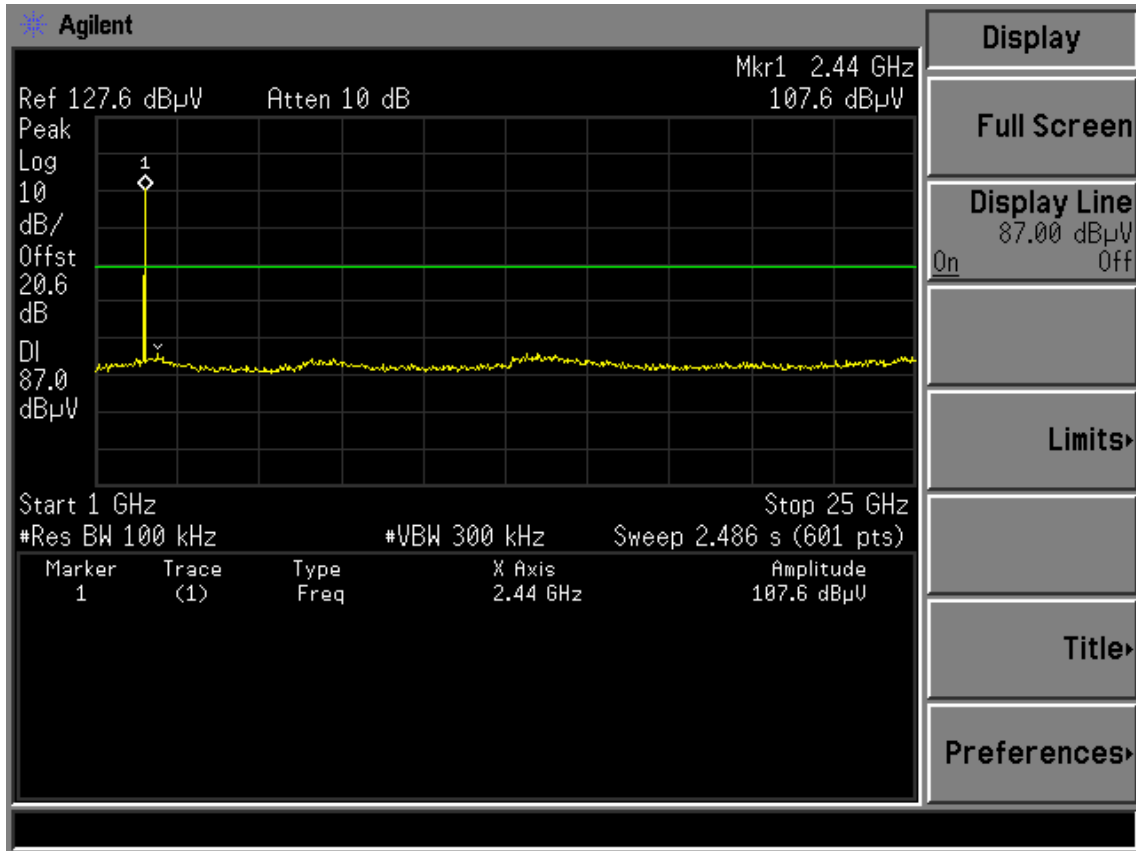
Test CH1: 2412MHz



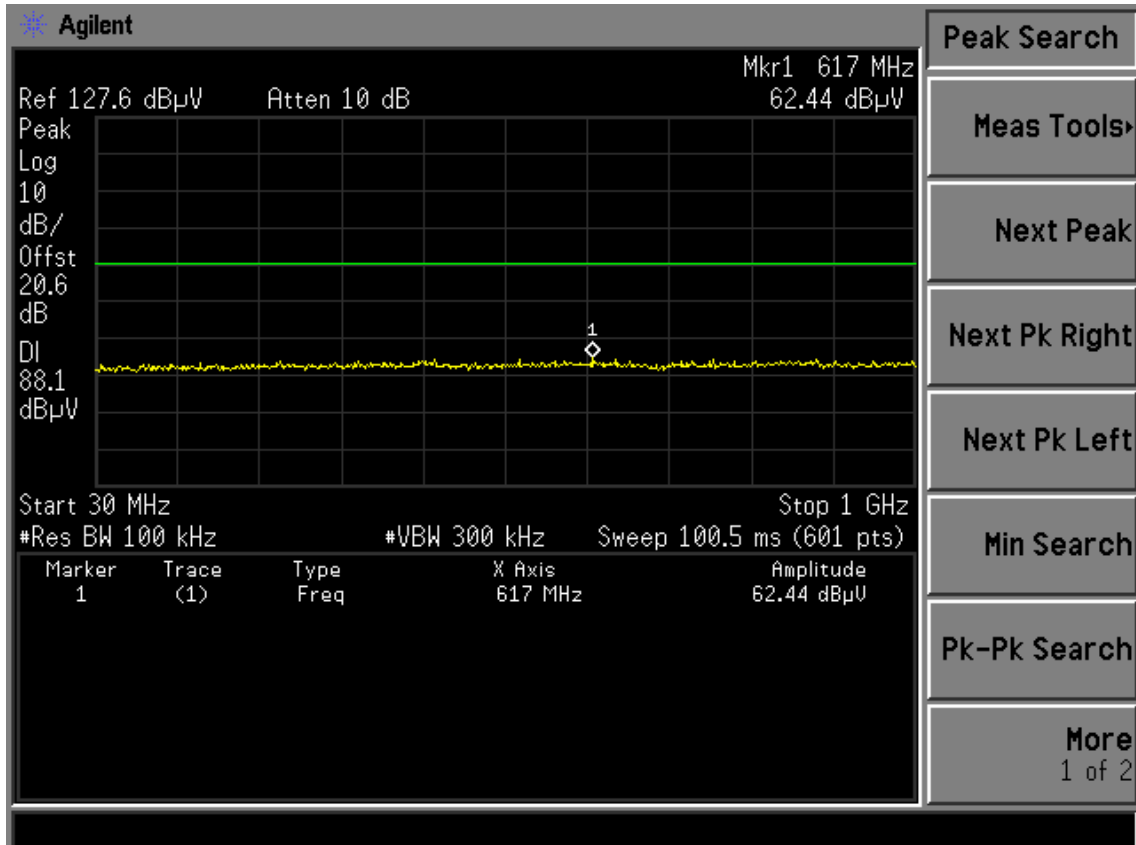


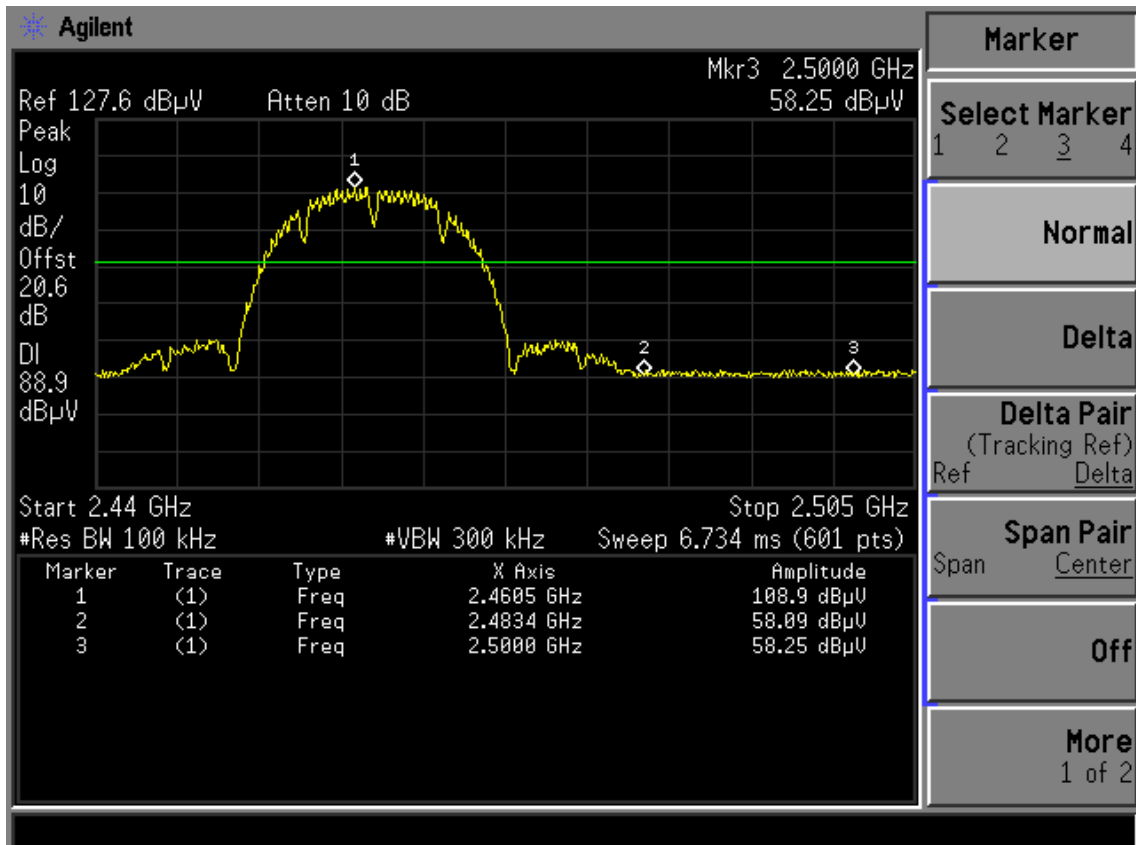
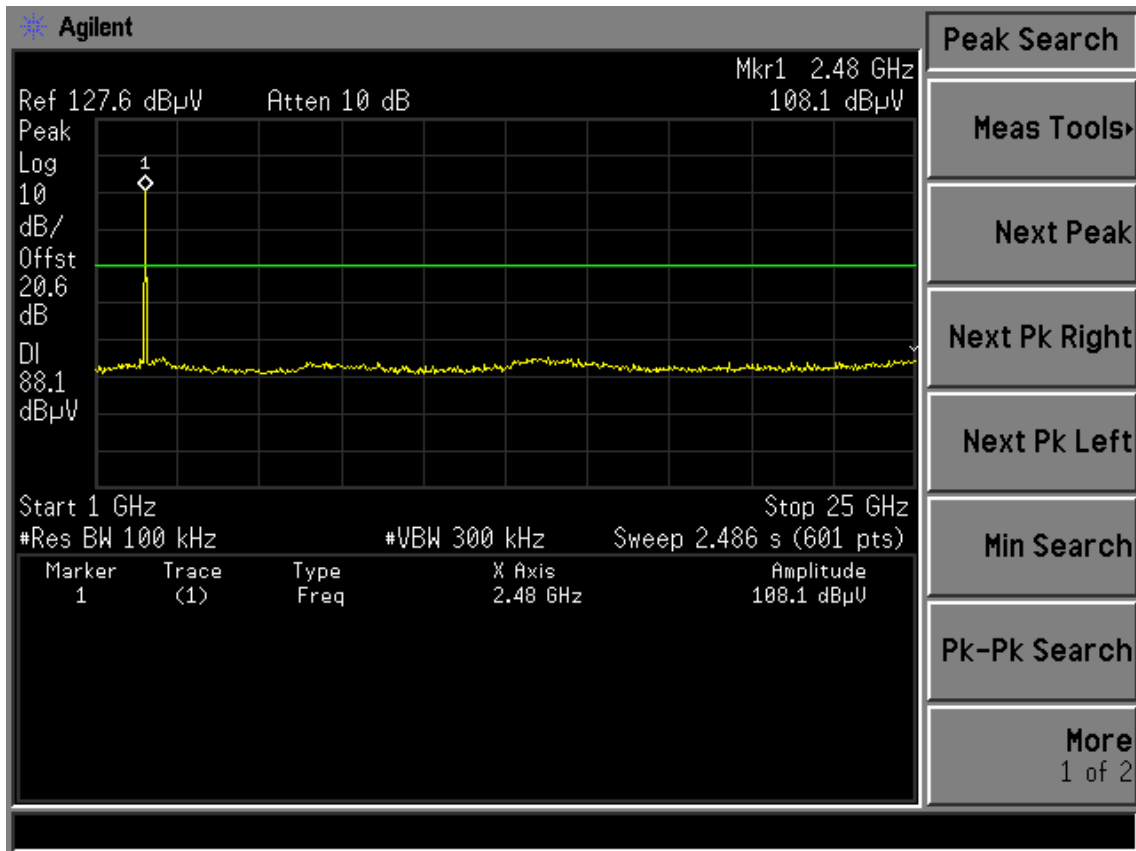
Test CH6: 2437MHz





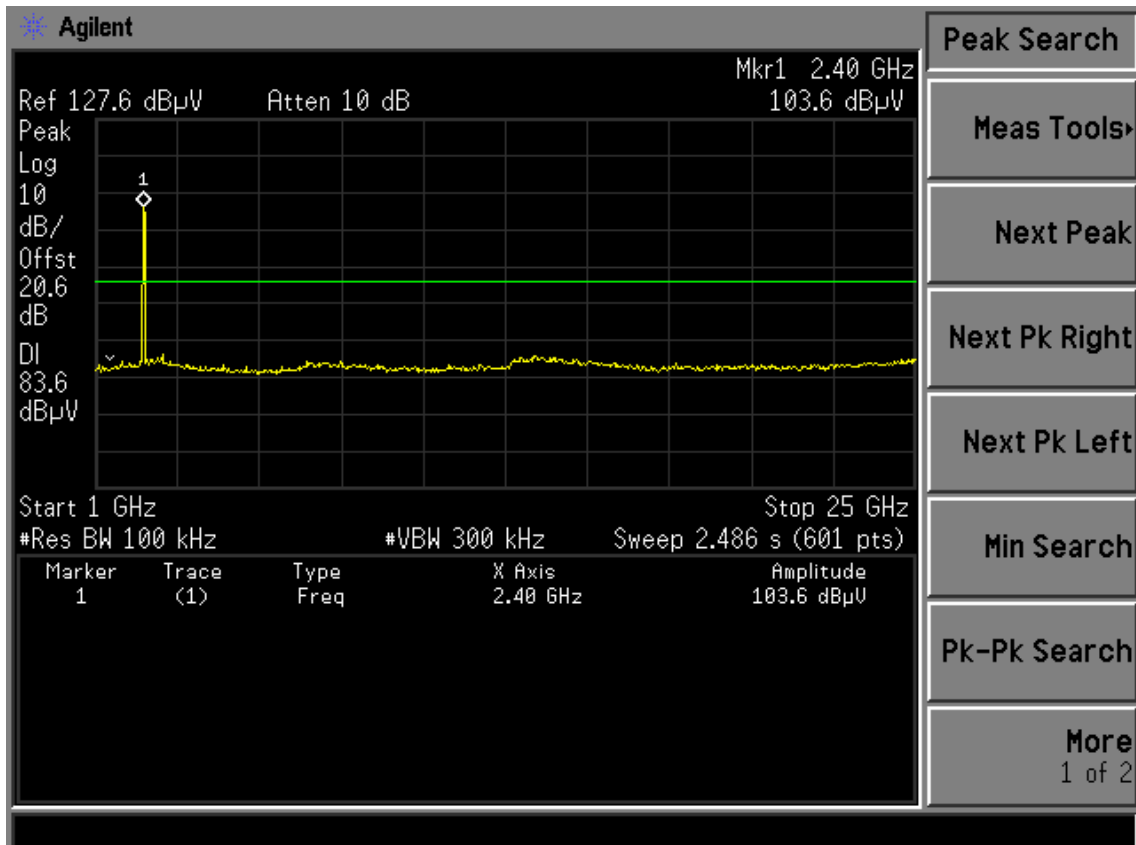
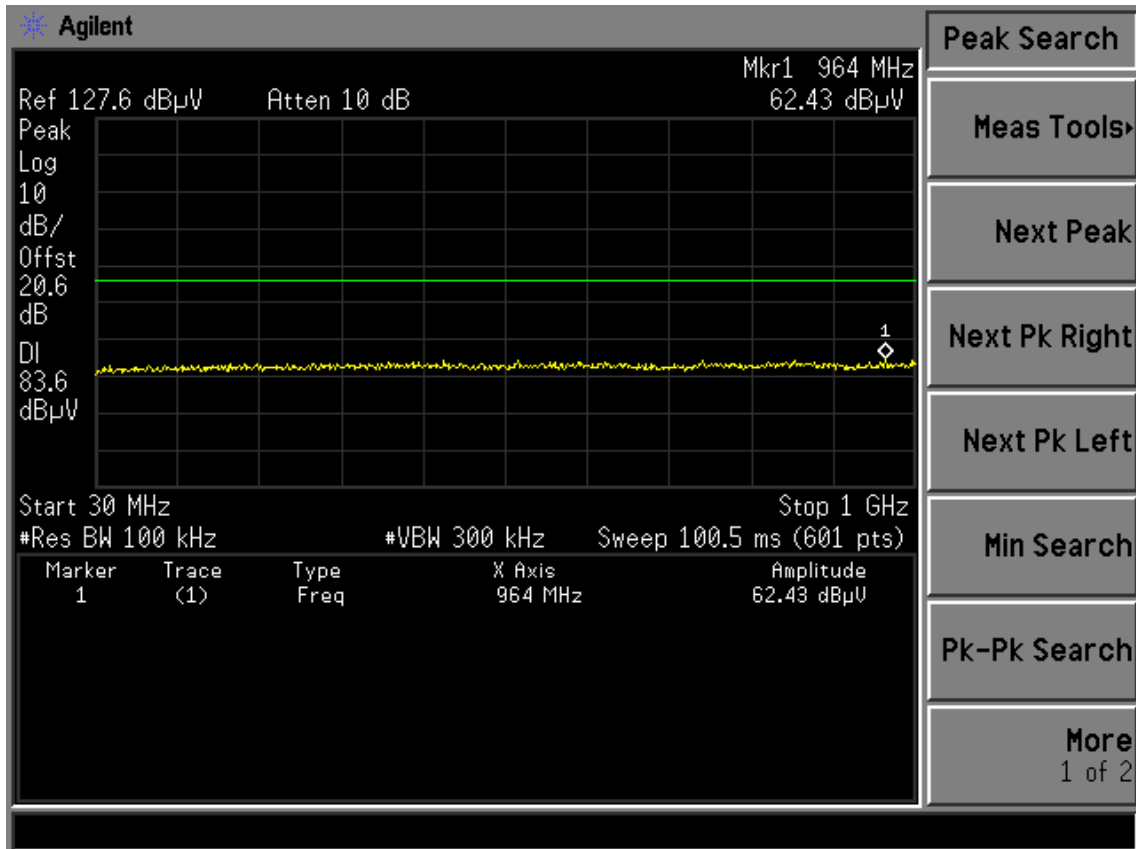
Test CH11: 2462MHz

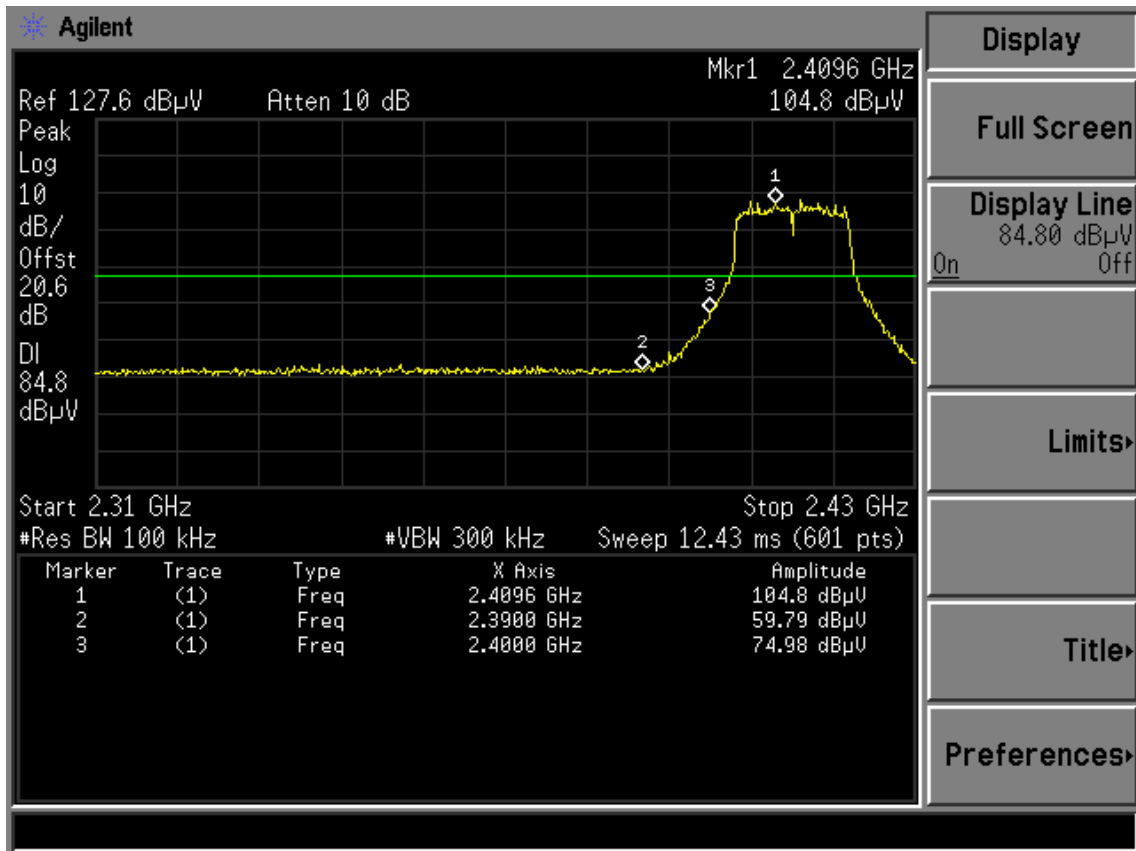




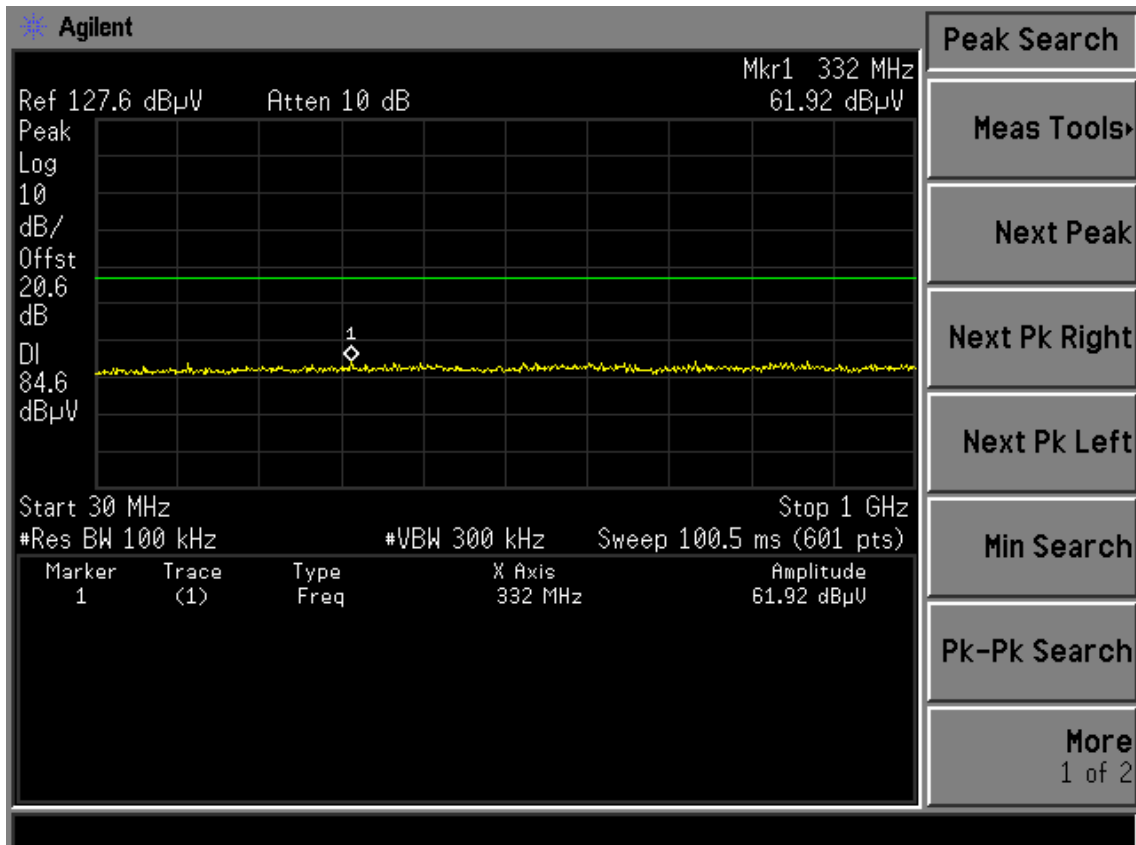
Test Mode: IEEE 802.11g TX

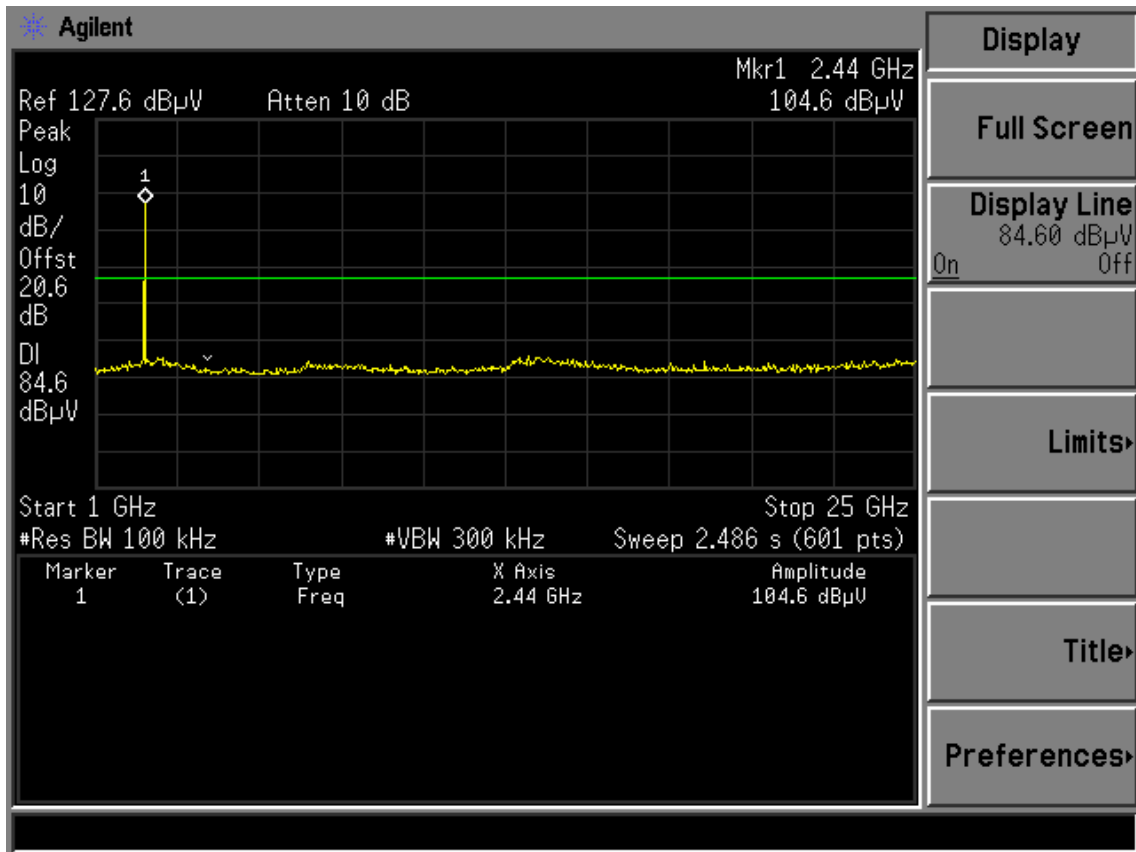
Test CH1: 2412MHz



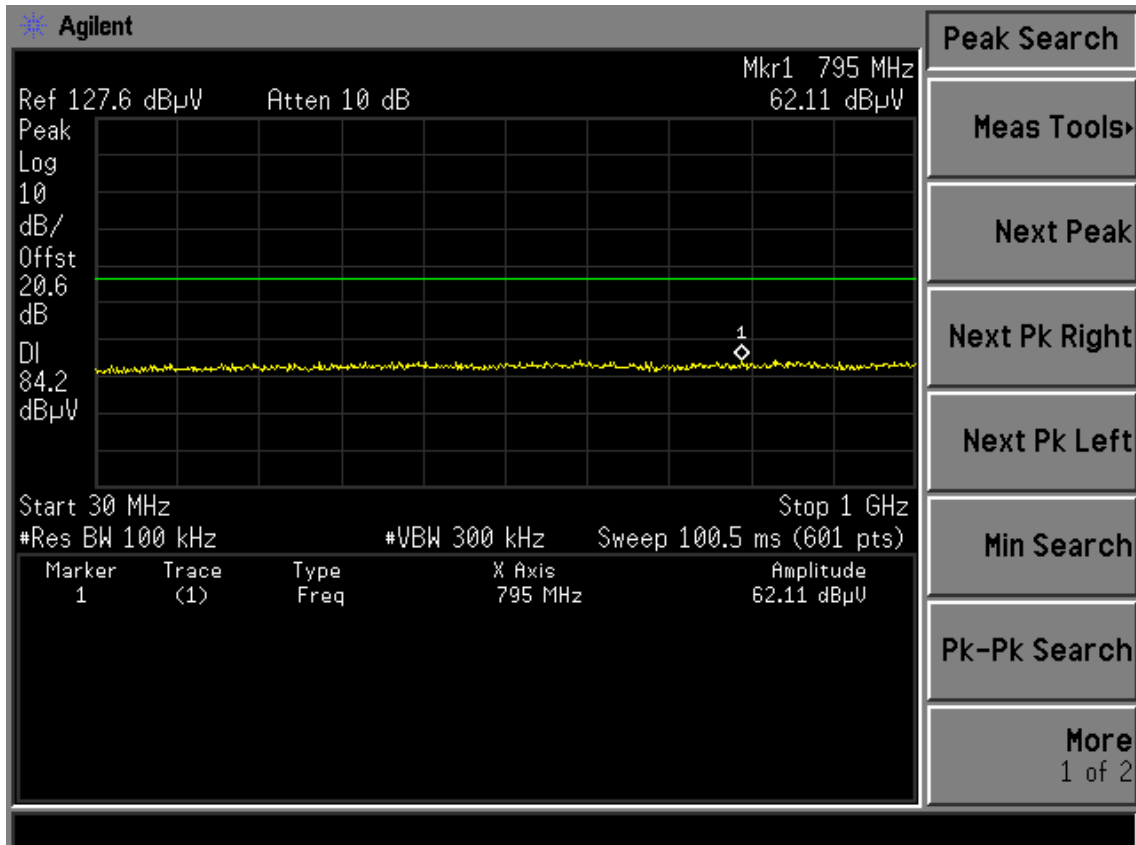


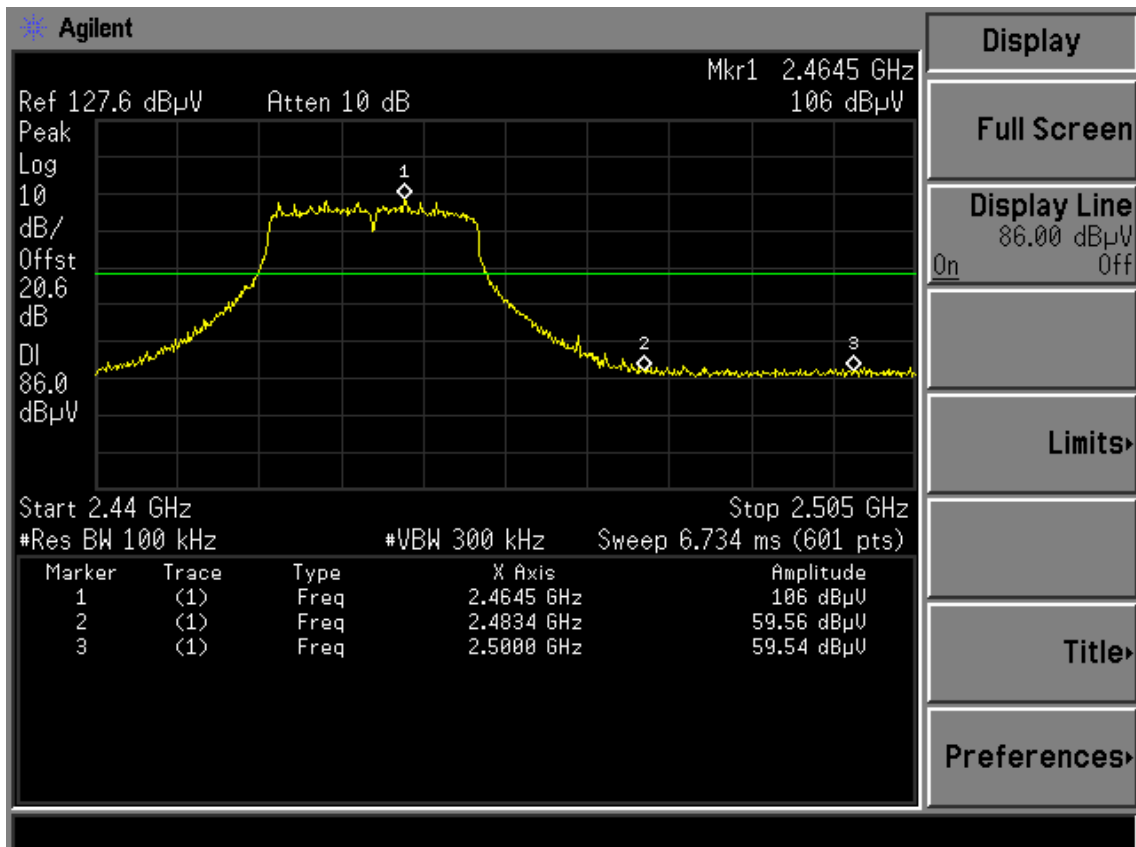
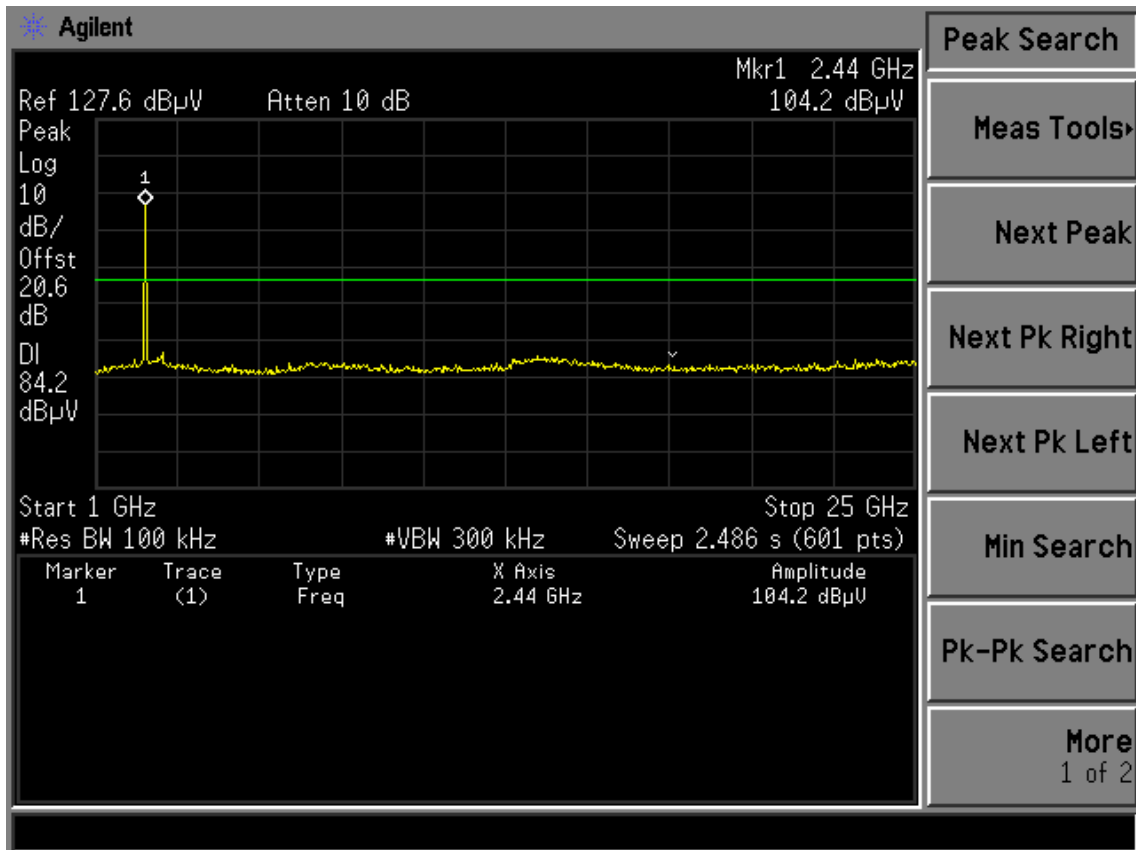
Test CH6: 2437MHz



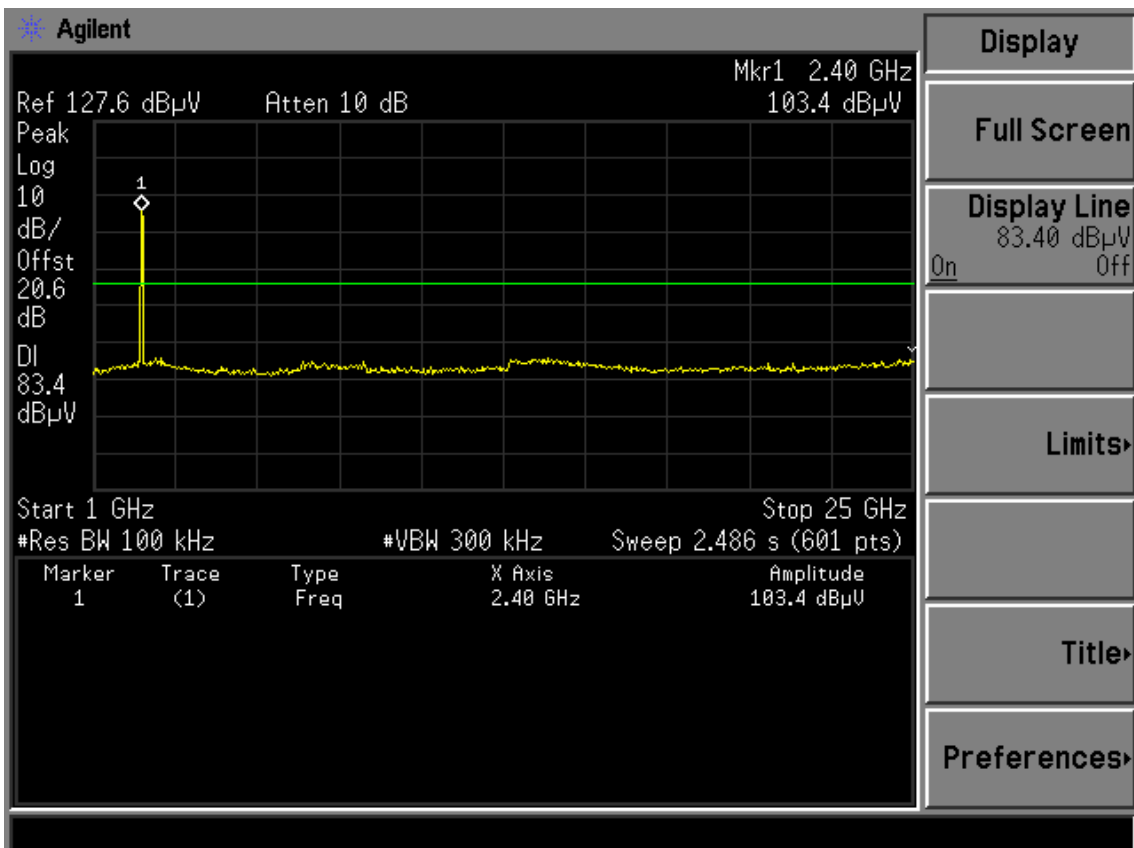
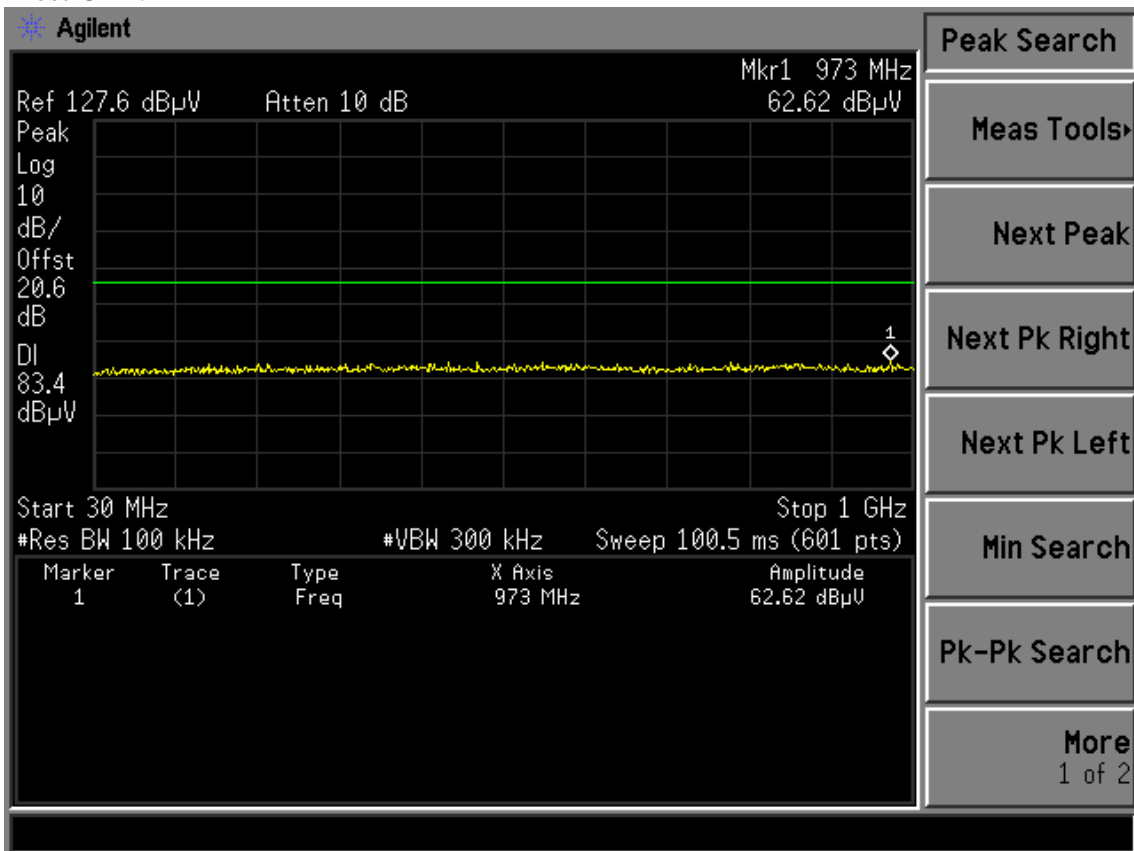


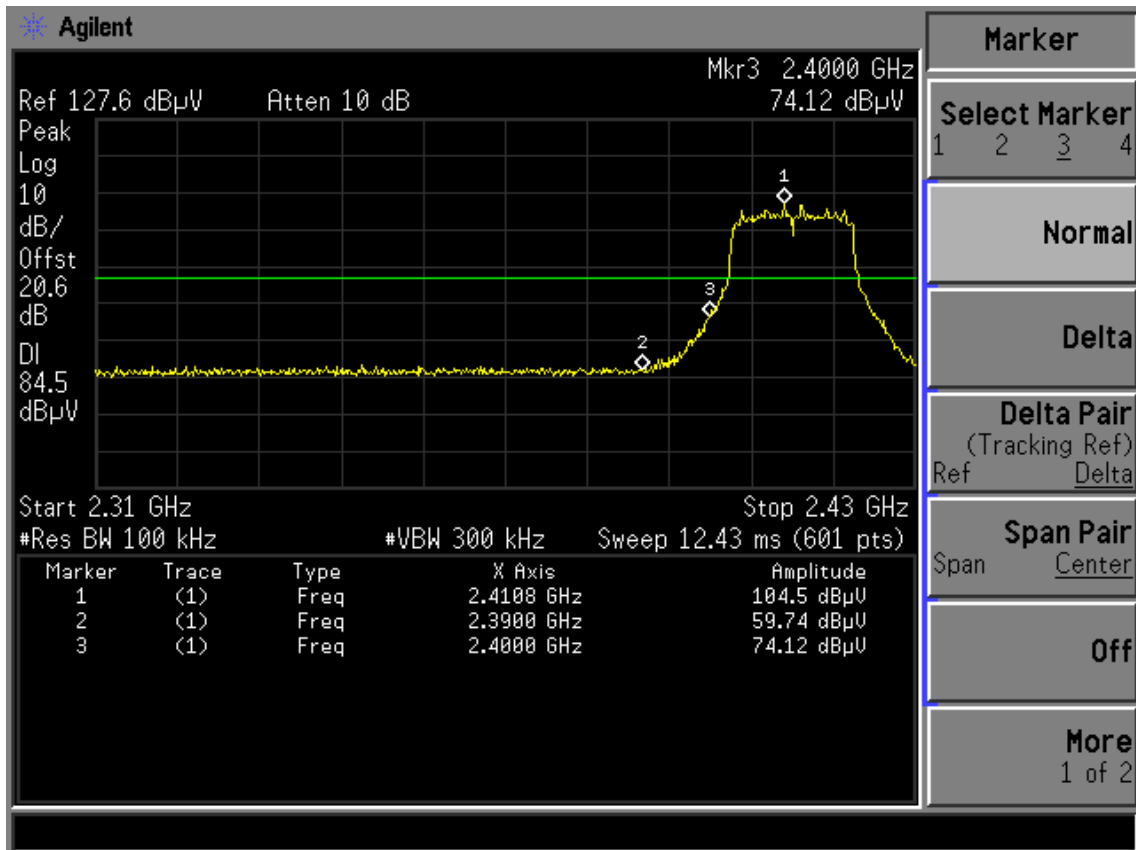
Test CH11: 2462MHz



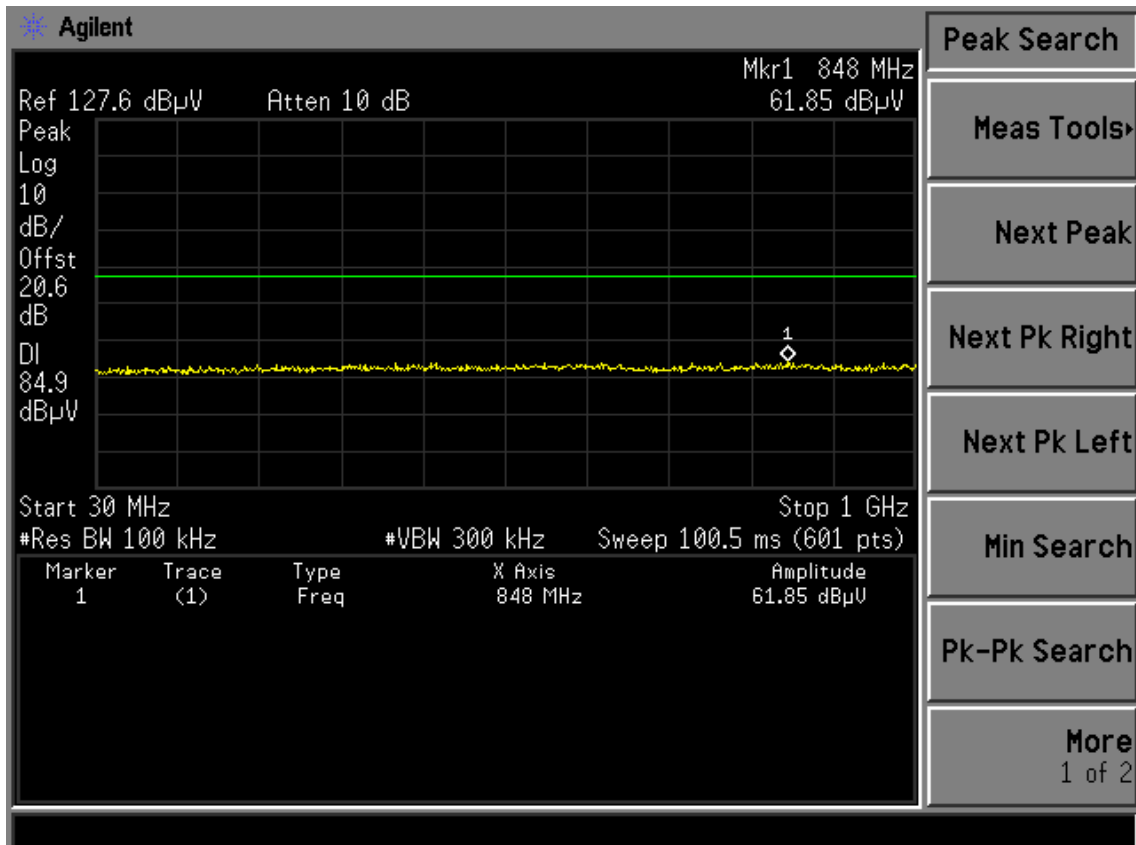


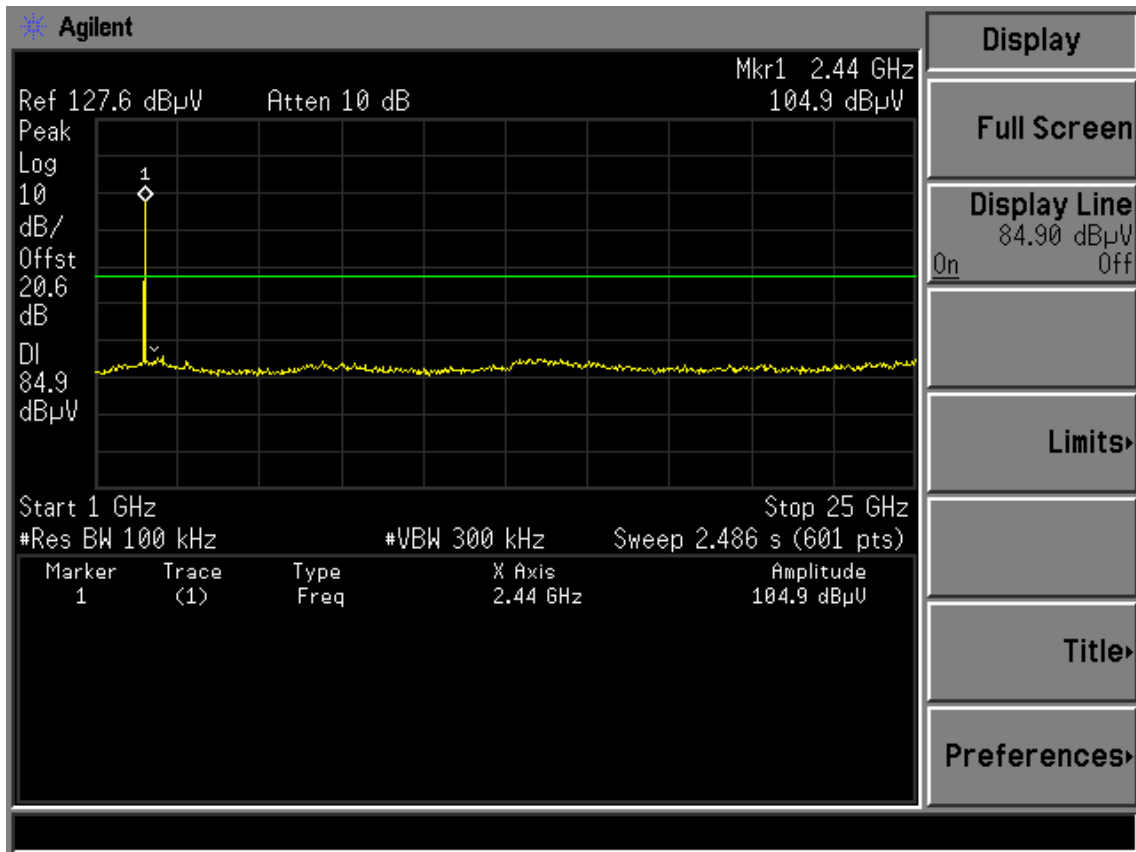
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



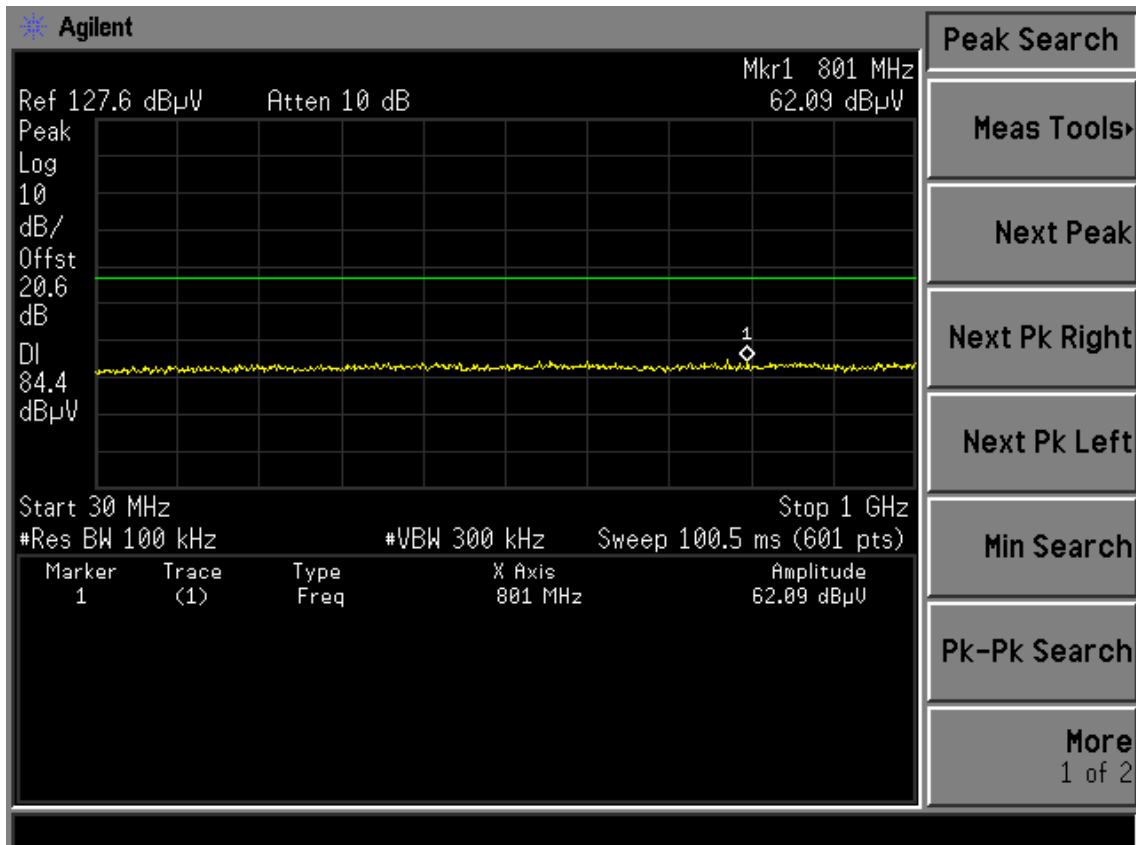


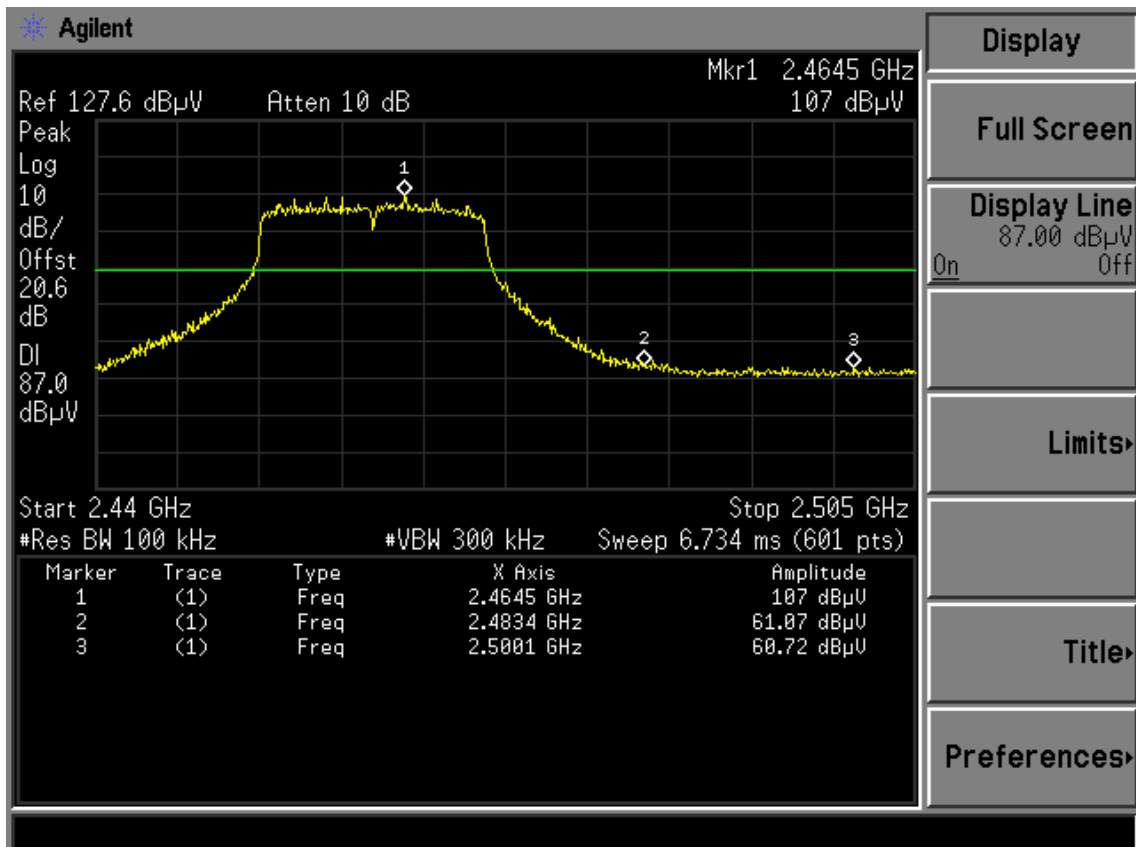
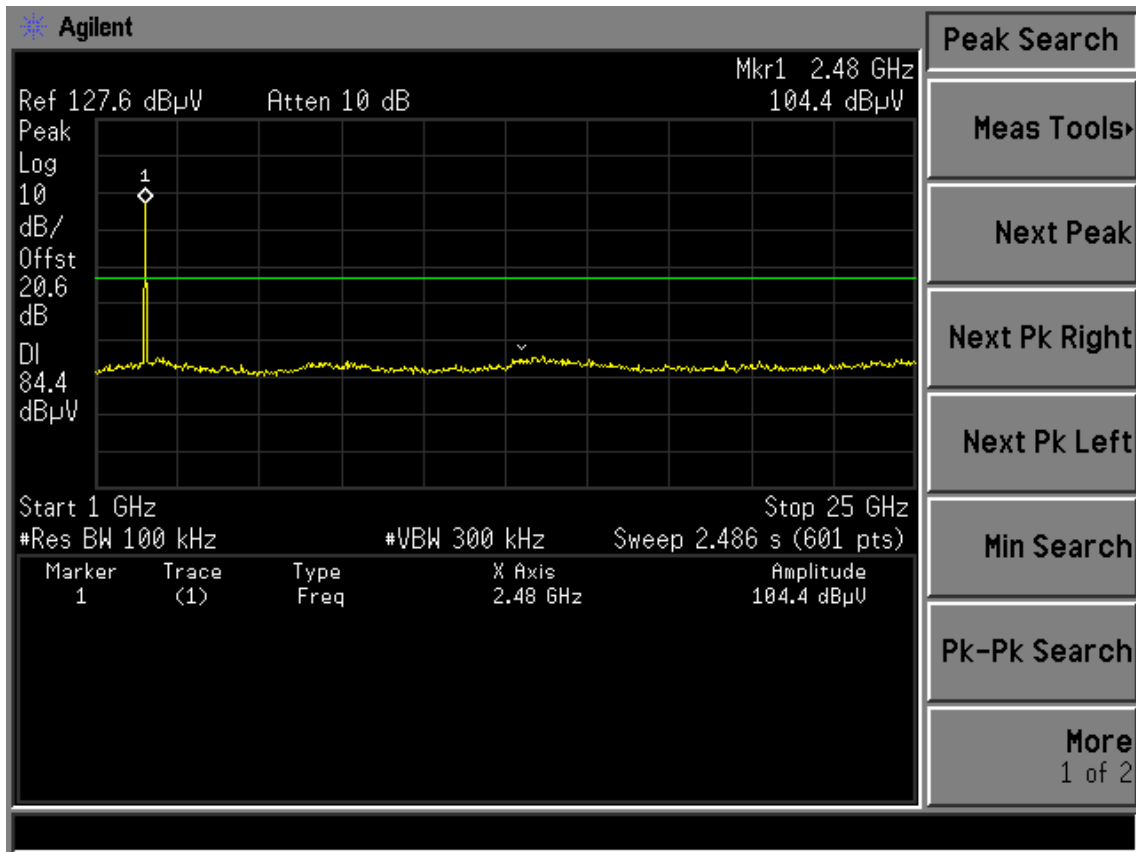
Test CH6: 2437MHz



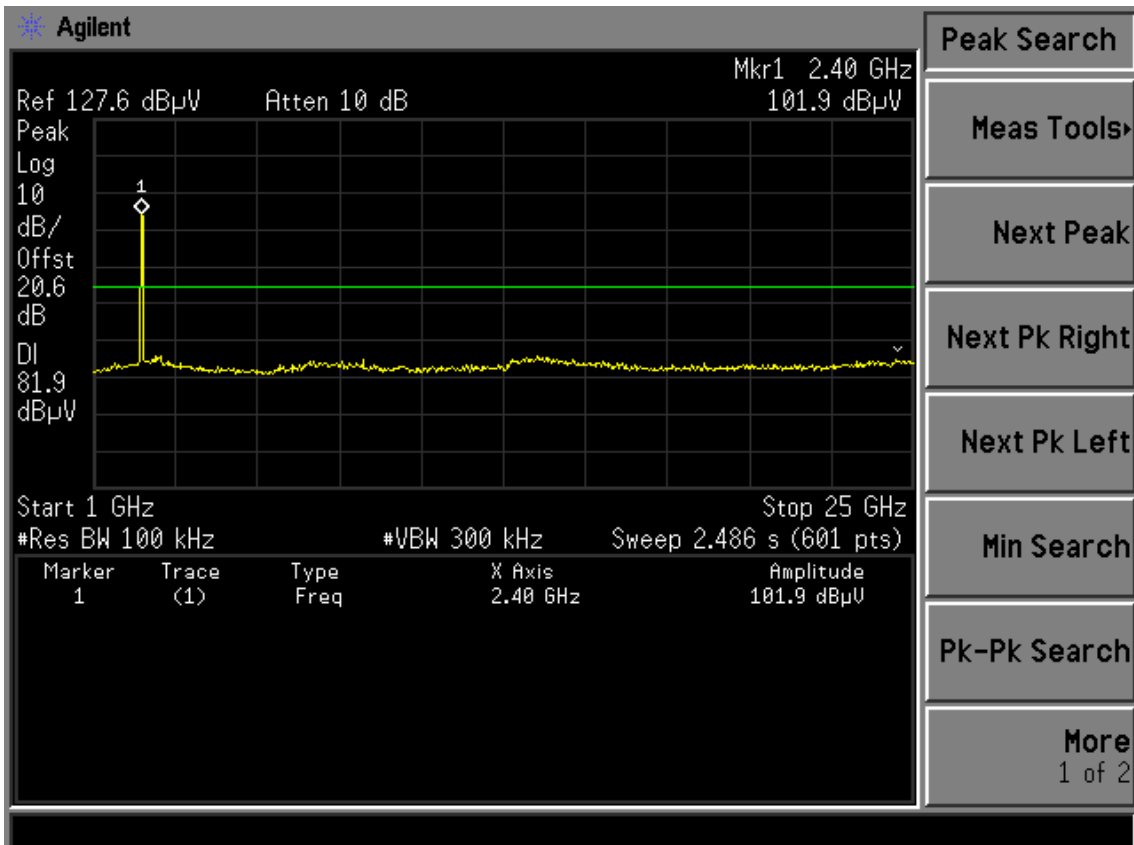
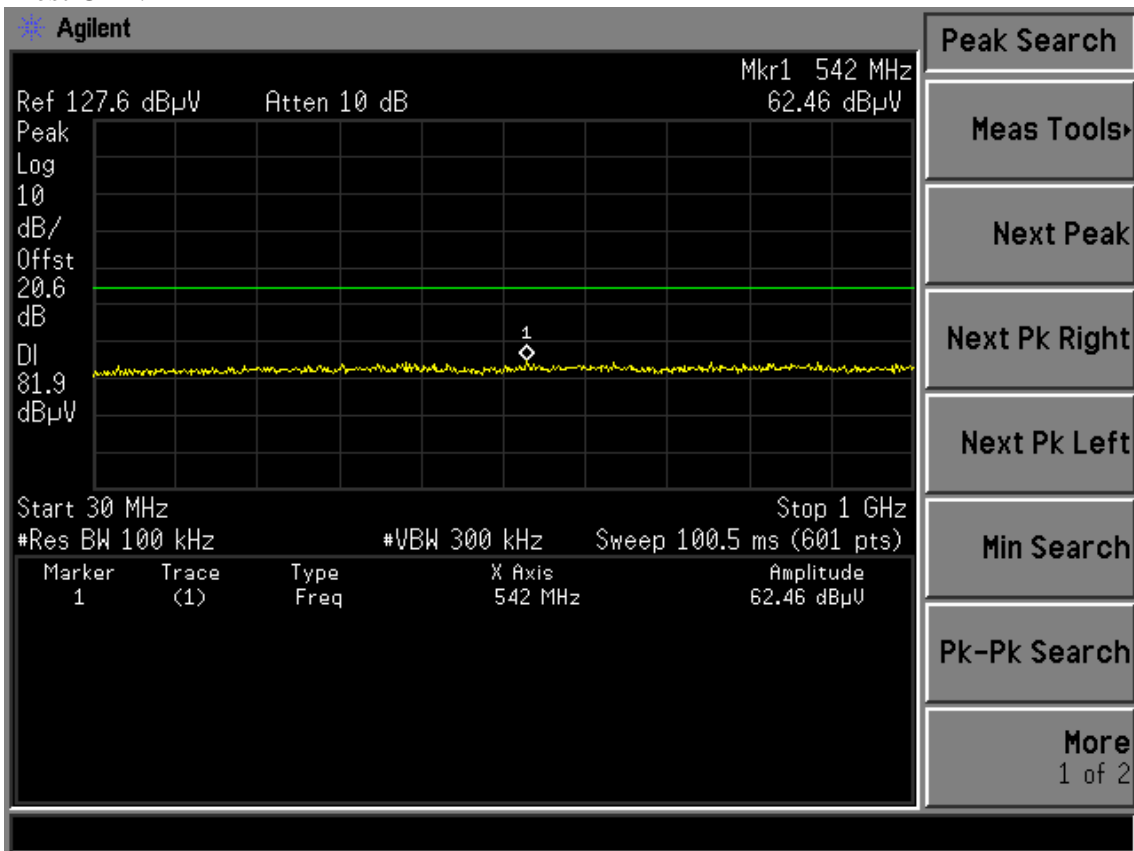


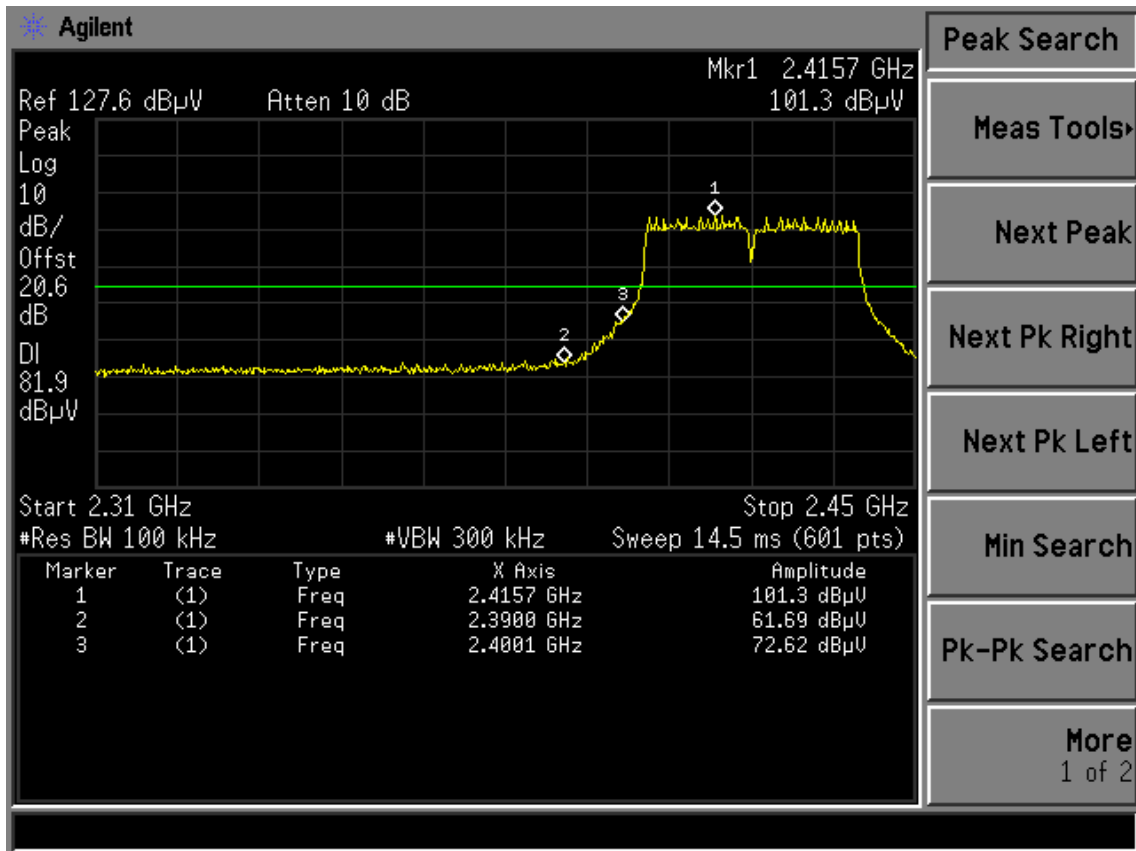
Test CH11: 2462MHz



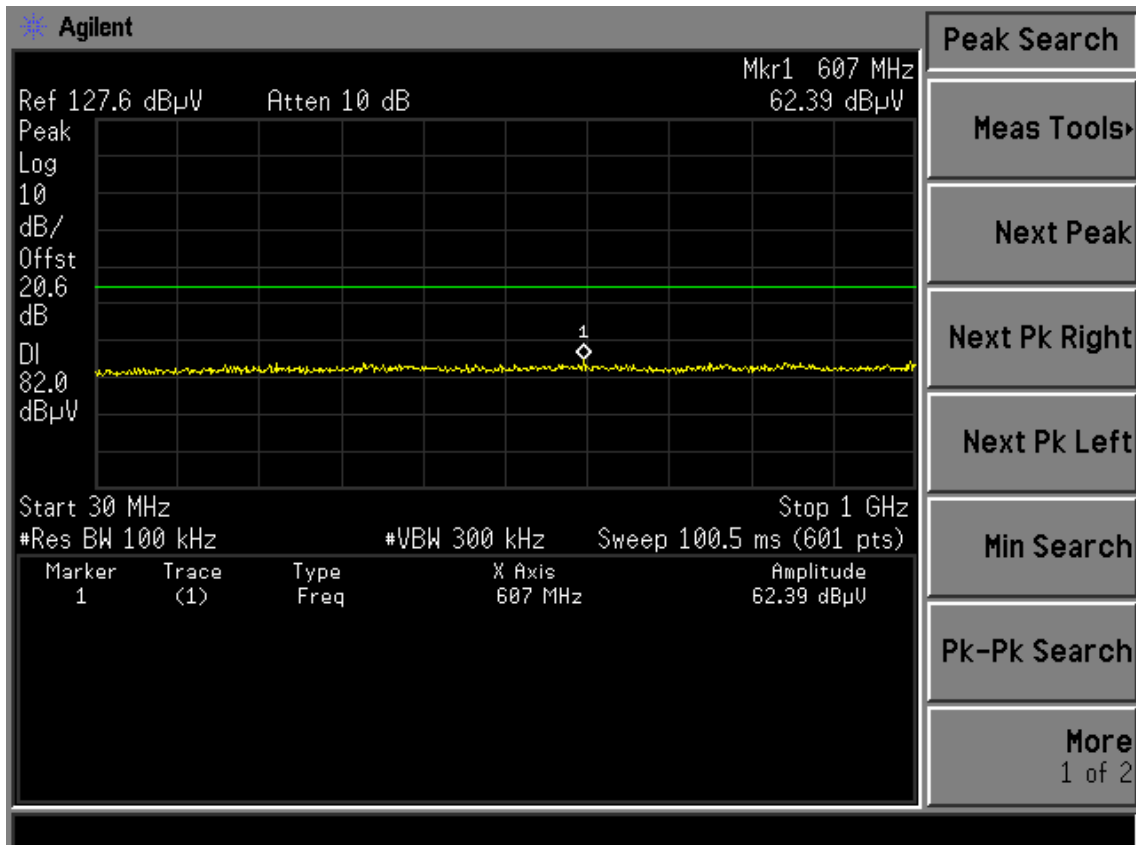


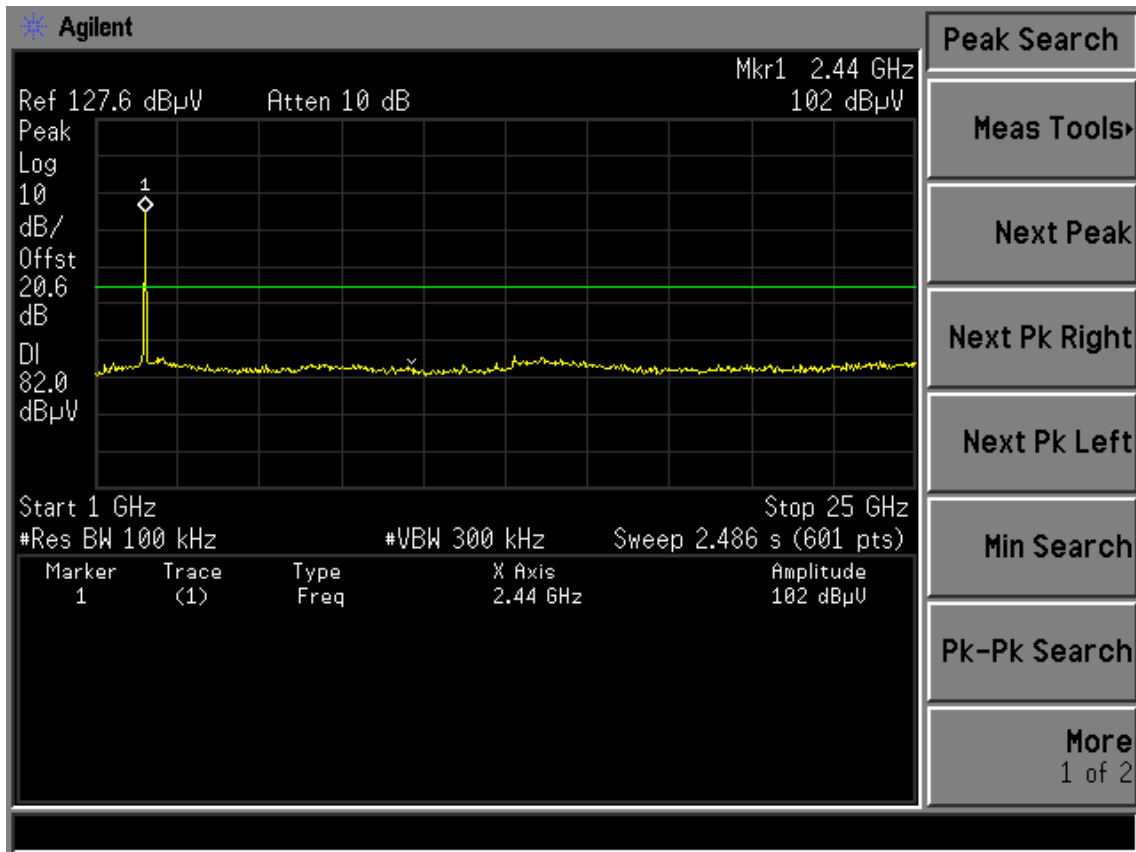
Test Mode: IEEE 802.11n HT40 TX
 Test CH1: 2422MHz



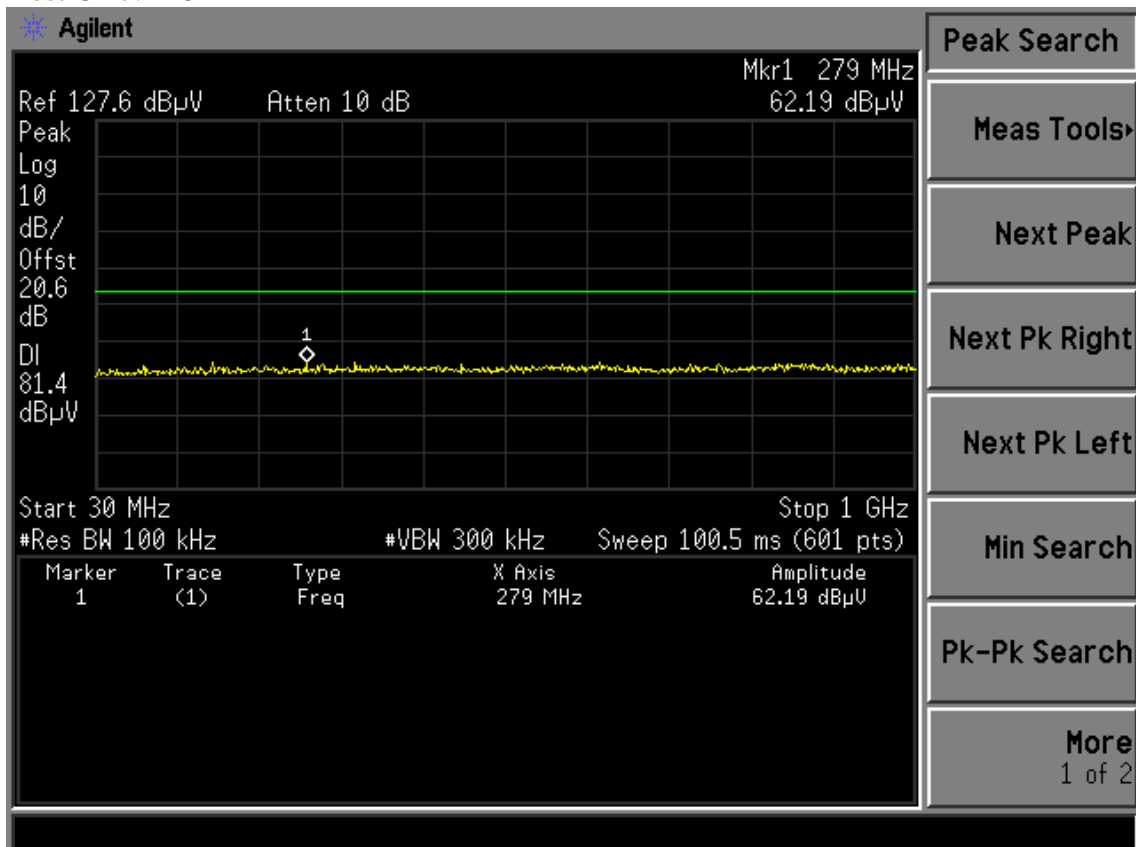


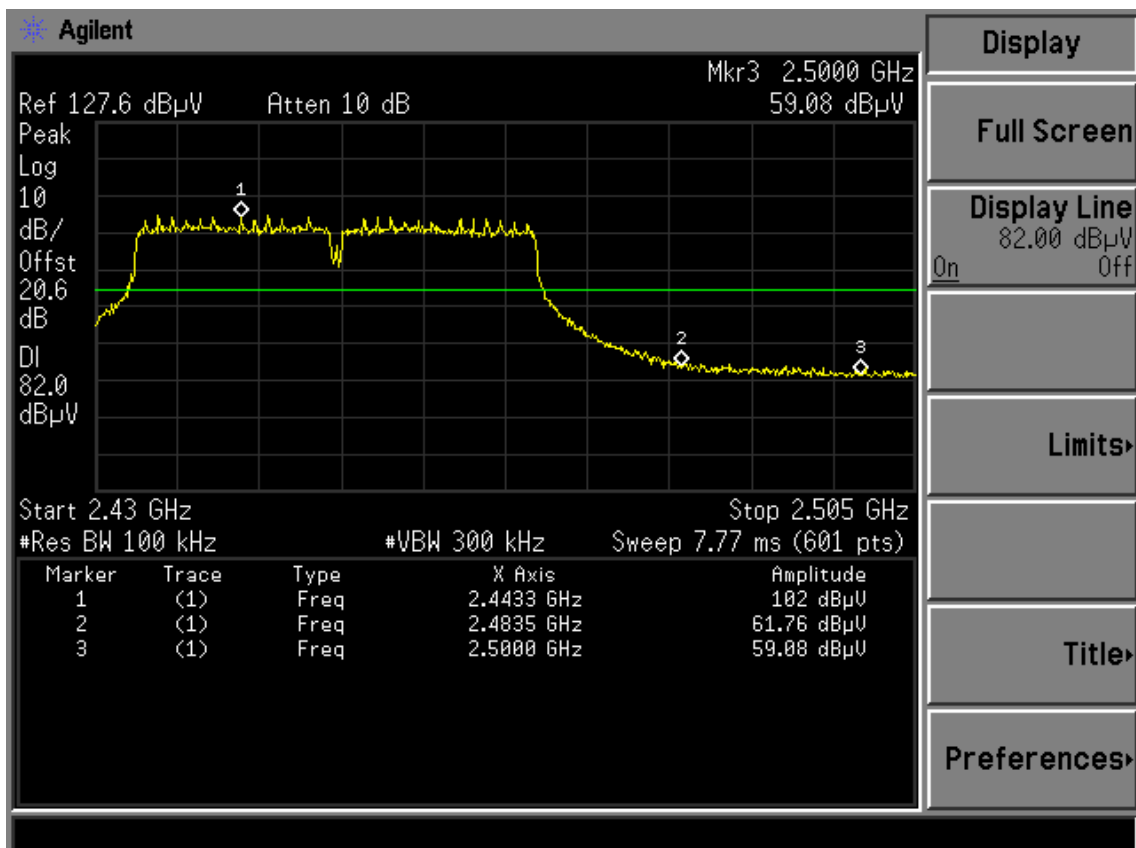
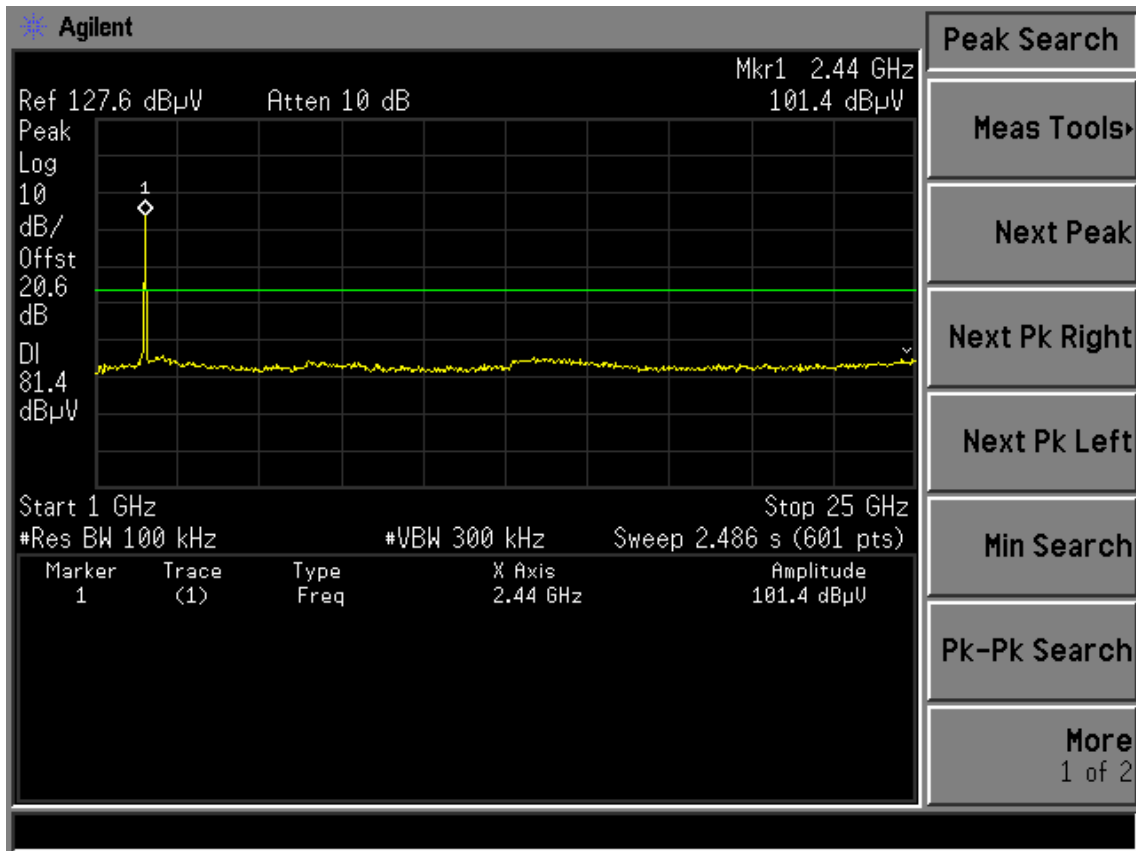
Test CH4: 2437MHz





Test CH7: 2452MHz





6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,11	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	May 08, 11	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 11	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,11	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,11	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,11	1 Year

6.2. Limit

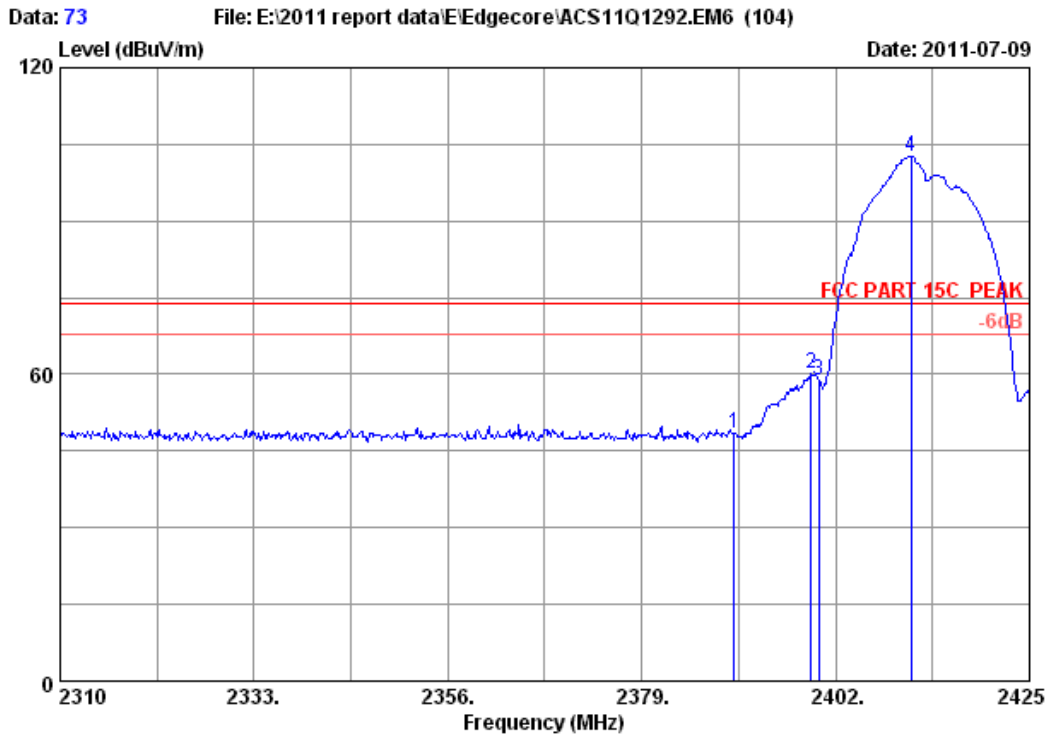
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental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

6.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.4. Test Results

Pass (The testing data was attached in the next pages.)

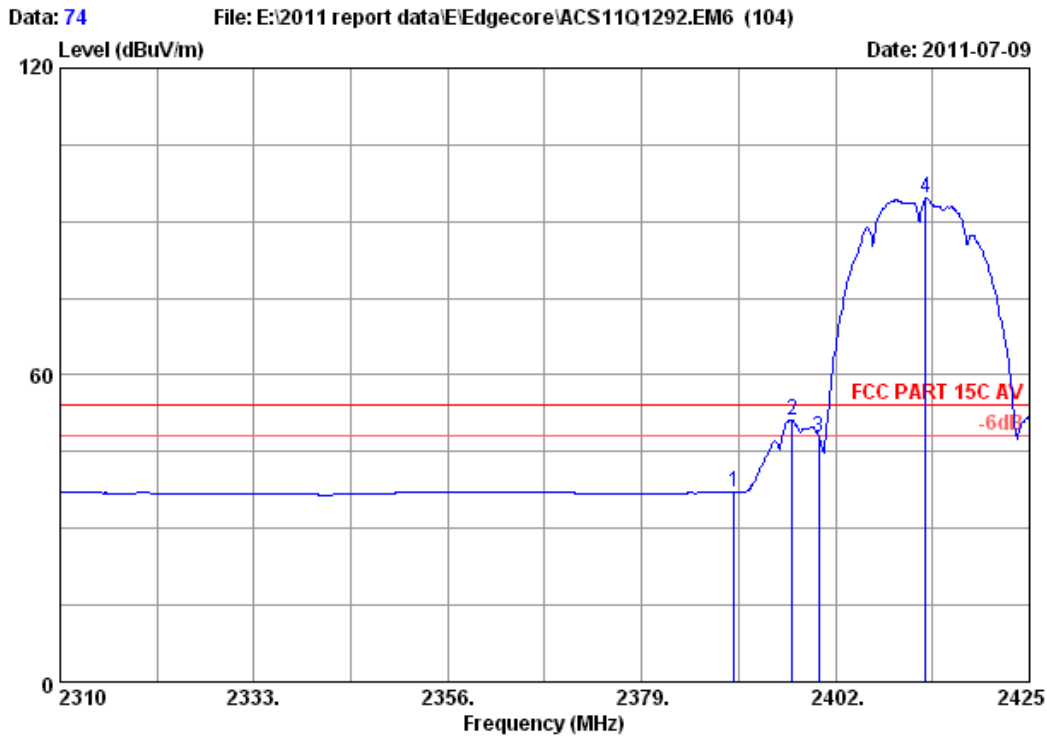


Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.46	8.41	36.09	47.67	48.45	74.00	25.55	Peak
2	2399.125	28.46	8.60	36.09	59.17	60.14	74.00	13.86	Peak
3	2400.000	28.46	8.60	36.09	57.94	58.91	74.00	15.09	Peak
4	2410.970	28.48	8.60	35.95	101.54	102.67	74.00	-28.67	Peak

Remarks:

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

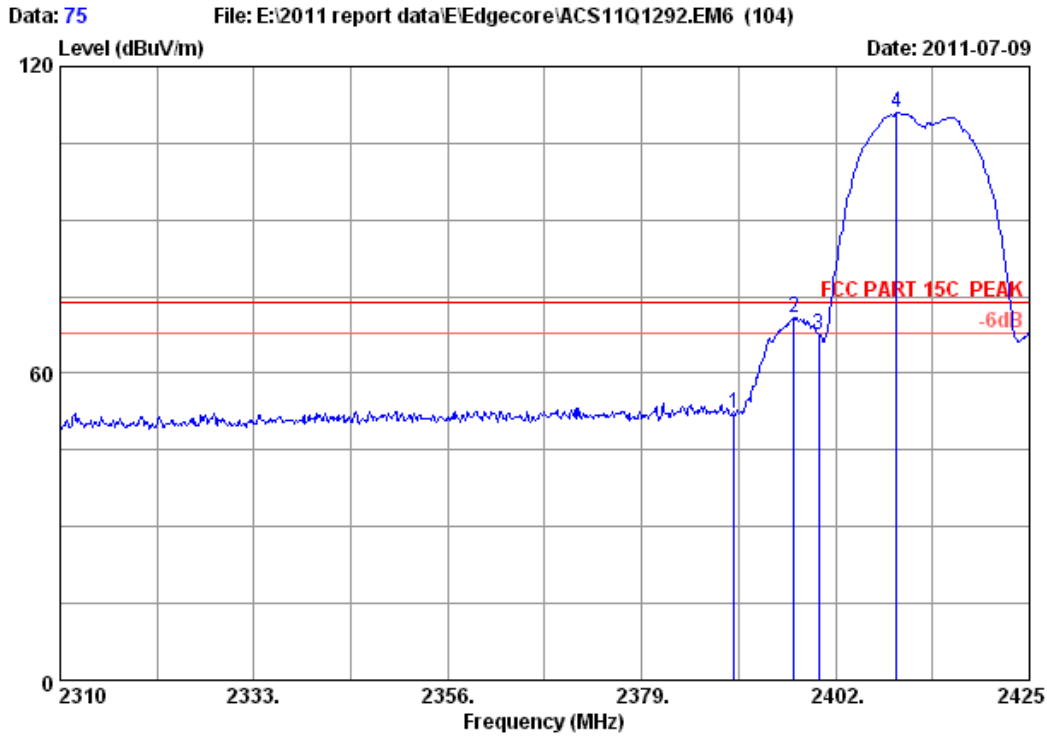


Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.46	8.41	36.09	36.26	37.04	54.00	16.96	Average
2	2396.825	28.46	8.41	36.09	50.41	51.19	54.00	2.81	Average
3	2400.000	28.46	8.60	36.09	46.87	47.84	54.00	6.16	Average
4	2412.695	28.48	8.60	35.95	93.43	94.56	54.00	-40.56	Average

Remarks:

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

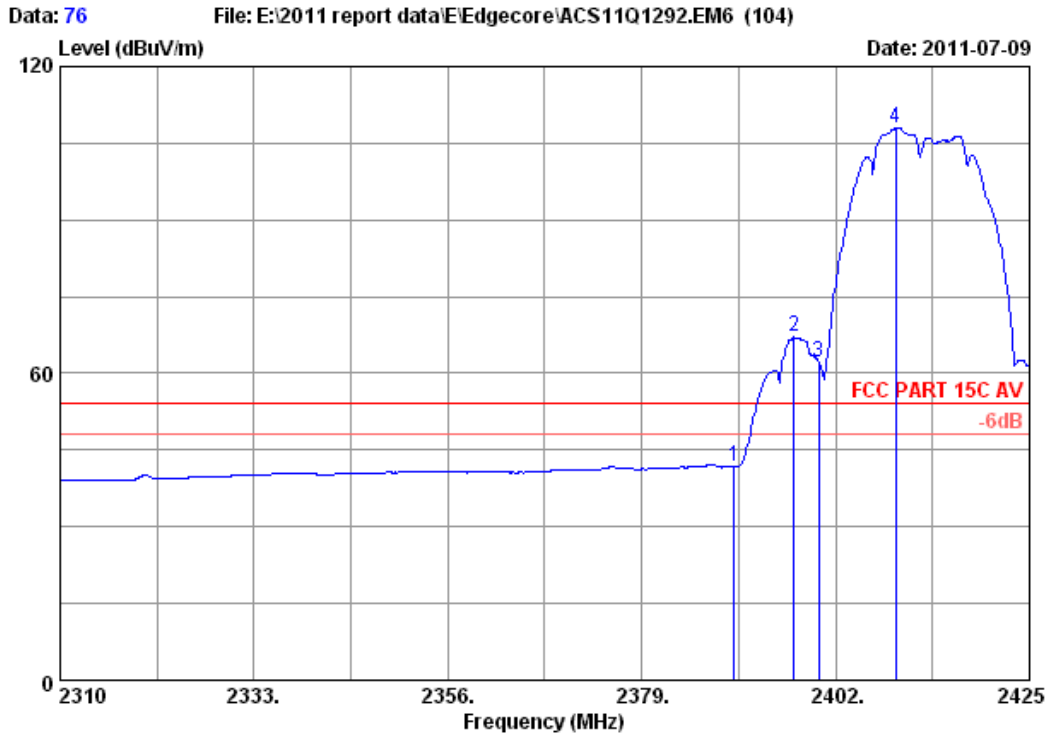


Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2390.000	28.46	8.41	36.09	51.33	52.11	74.00	21.89	Peak
2	2397.055	28.46	8.41	36.09	70.15	70.93	74.00	3.07	Peak
3	2400.000	28.46	8.60	36.09	66.44	67.41	74.00	6.59	Peak
4	2409.245	28.48	8.60	35.95	109.91	111.04	74.00	-37.04	Peak

Remarks:

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

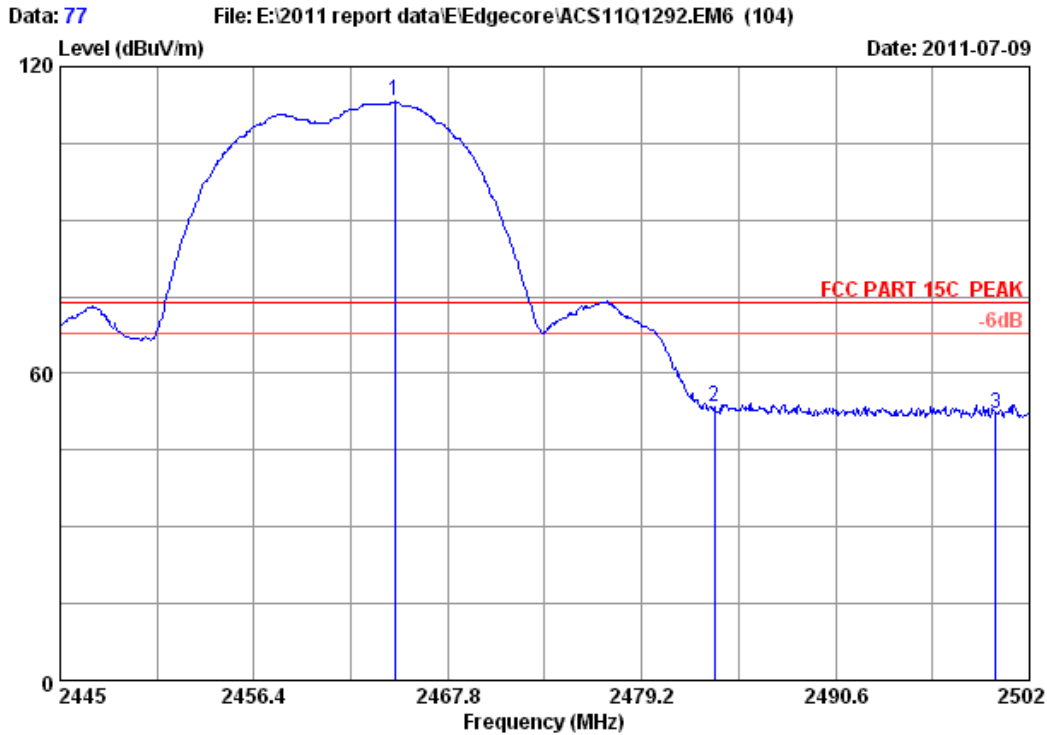


Data: 76 File: E:\2011 report data\E\Edgecore\ACS11Q1292.EM6 (104) Date: 2011-07-09
 Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2390.000	28.46	8.41	36.09	41.07	41.85	54.00	12.15	Average	
2 2397.055	28.46	8.41	36.09	66.32	67.10	54.00	-13.10	Average	
3 2400.000	28.46	8.60	36.09	61.22	62.19	54.00	-8.19	Average	
4 2409.130	28.48	8.60	35.95	106.95	108.08	54.00	-54.08	Average	

Remarks:

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

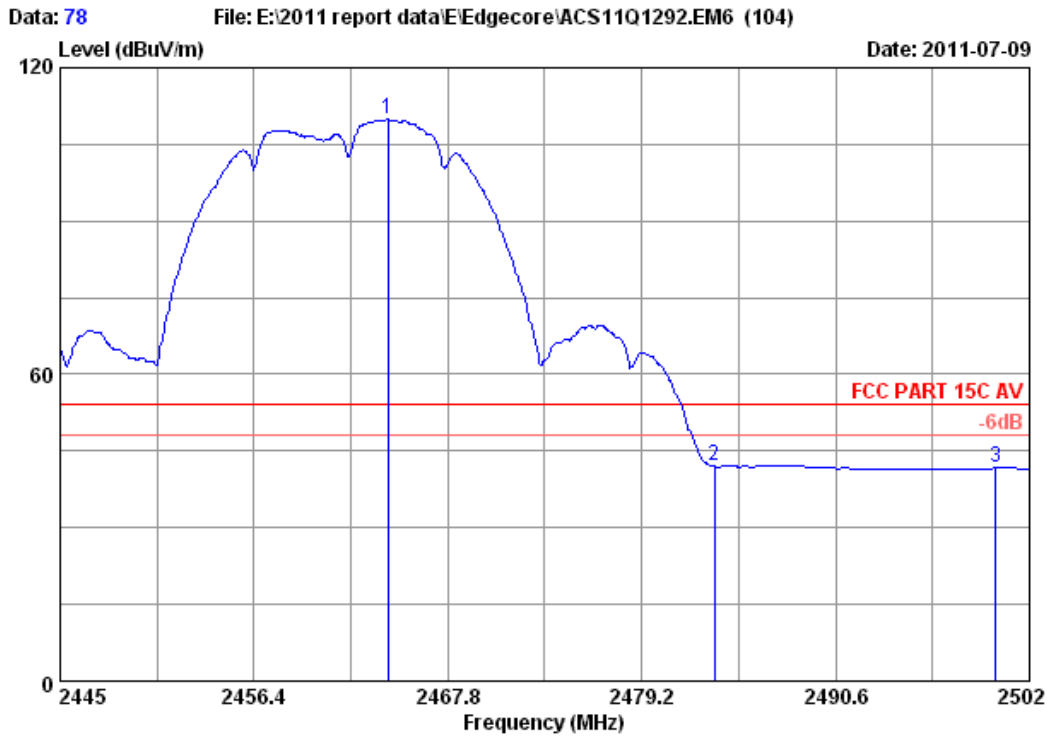


Site no. : 3m Chamber Data no. : 77
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.665	28.55	8.76	36.02	111.90	113.19	74.00	-39.19	Peak
2	2483.500	28.58	8.94	35.97	51.91	53.46	74.00	20.54	Peak
3	2500.000	28.60	8.89	36.00	50.53	52.02	74.00	21.98	Peak

Remarks:

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

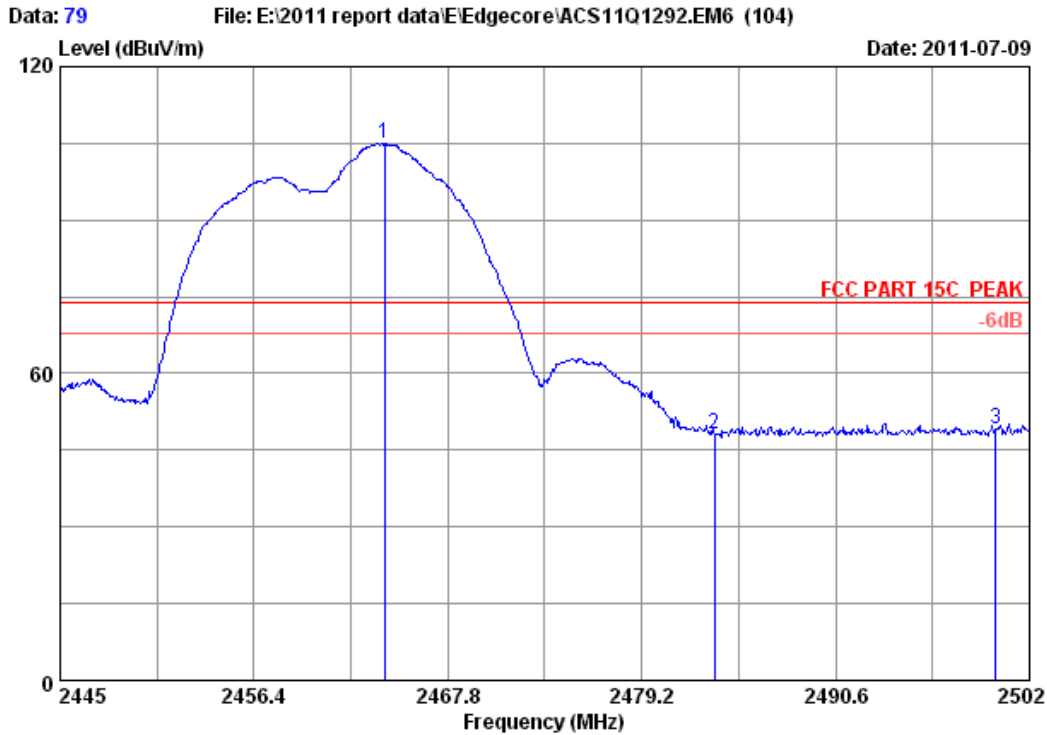


Site no. : 3m Chamber Data no. : 78
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.266	28.55	8.76	36.02	108.58	109.87	54.00	-55.87	Average
2	2483.500	28.58	8.94	35.97	40.45	42.00	54.00	12.00	Average
3	2500.000	28.60	8.89	36.00	40.20	41.69	54.00	12.31	Average

Remarks:

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

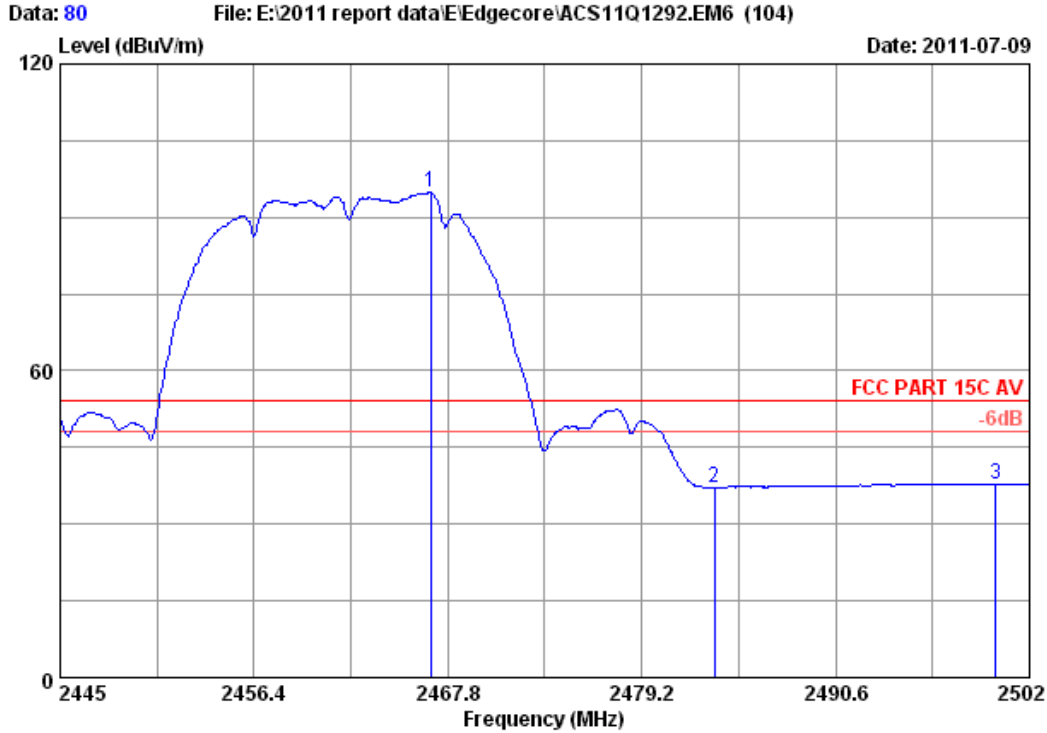


Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.095	28.55	8.76	36.02	103.62	104.91	74.00	-30.91	Peak
2	2483.500	28.58	8.94	35.97	46.71	48.26	74.00	25.74	Peak
3	2500.000	28.60	8.89	36.00	47.64	49.13	74.00	24.87	Peak

Remarks:

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

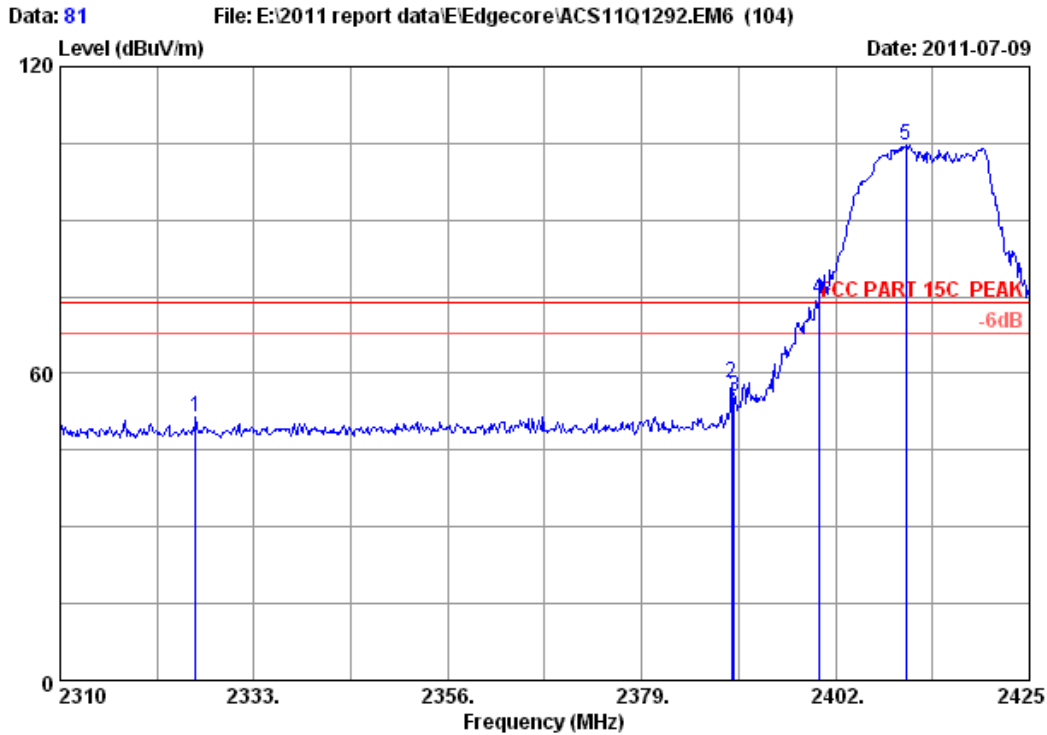


Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2466.774	28.55	8.76	36.02	93.49	94.78	54.00	-40.78	Average
2	2483.500	28.58	8.94	35.97	35.68	37.23	54.00	16.77	Average
3	2500.000	28.60	8.89	36.00	36.35	37.84	54.00	16.16	Average

Remarks:

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

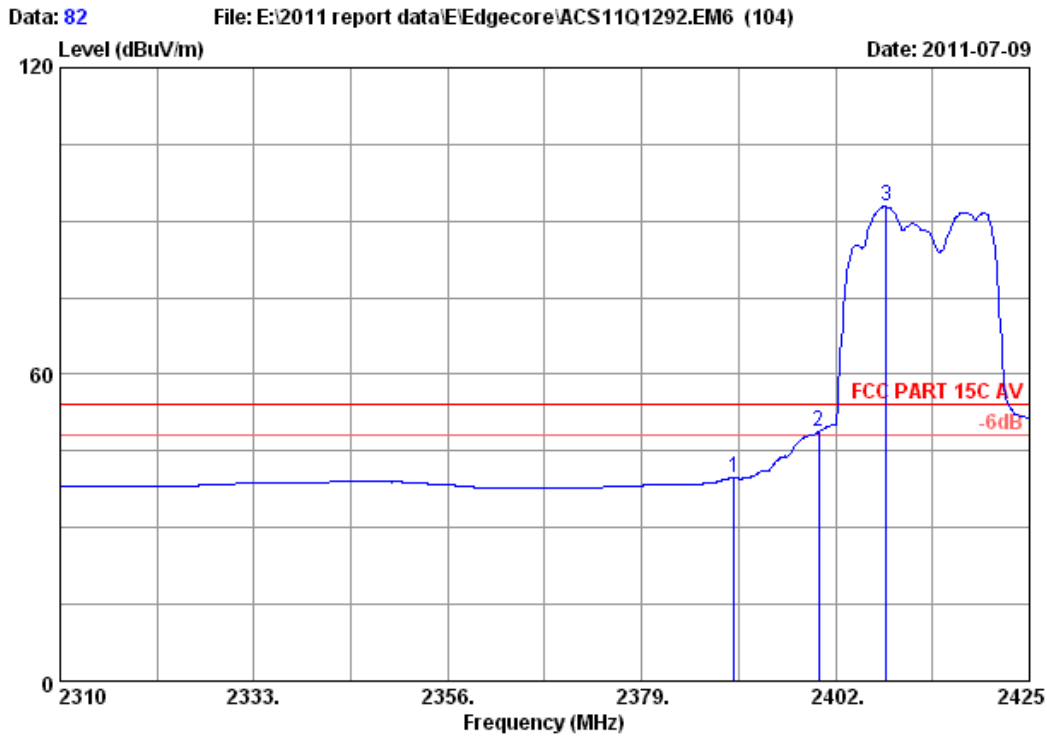


Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2326.100	28.36	8.64	36.06	50.50	51.44	74.00	22.56	Peak
2	2389.695	28.46	8.41	36.09	57.29	58.07	74.00	15.93	Peak
3	2390.000	28.46	8.41	36.09	54.81	55.59	74.00	18.41	Peak
4	2400.000	28.46	8.60	36.09	73.71	74.68	74.00	-0.68	Peak
5	2410.395	28.48	8.60	35.95	103.51	104.64	74.00	-30.64	Peak

Remarks:

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

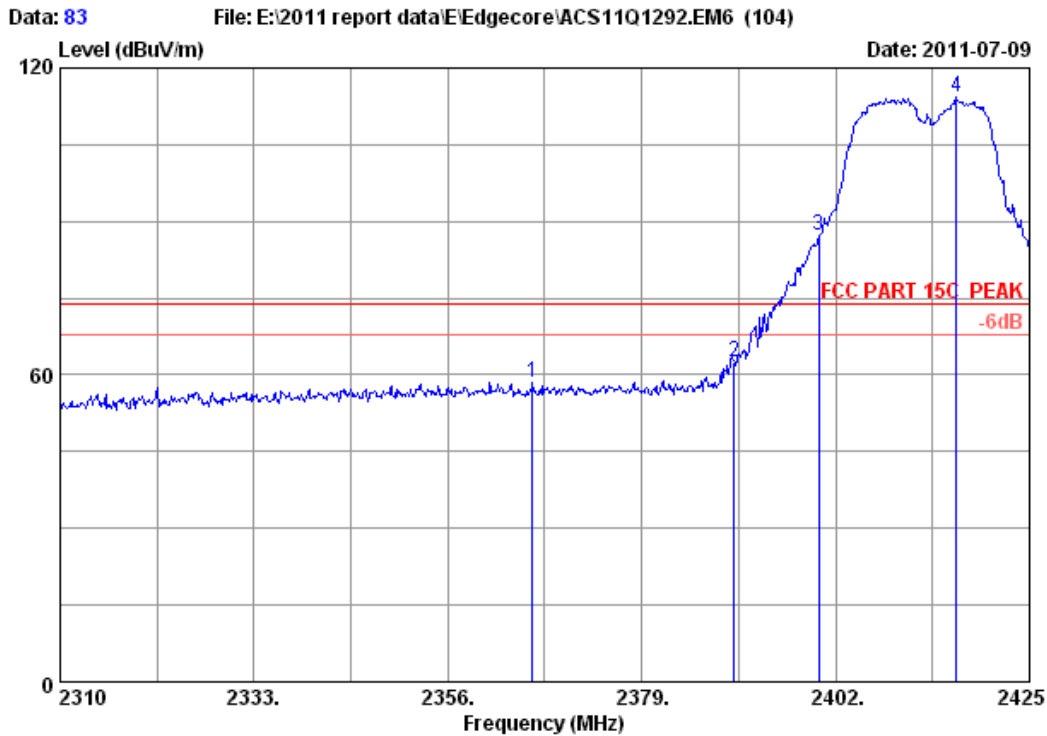


Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	28.46	8.41	36.09	38.94	39.72	54.00	14.28	Average
2	2400.000	28.46	8.60	36.09	47.95	48.92	54.00	5.08	Average
3	2407.980	28.48	8.60	35.95	91.68	92.81	54.00	-38.81	Average

Remarks:

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

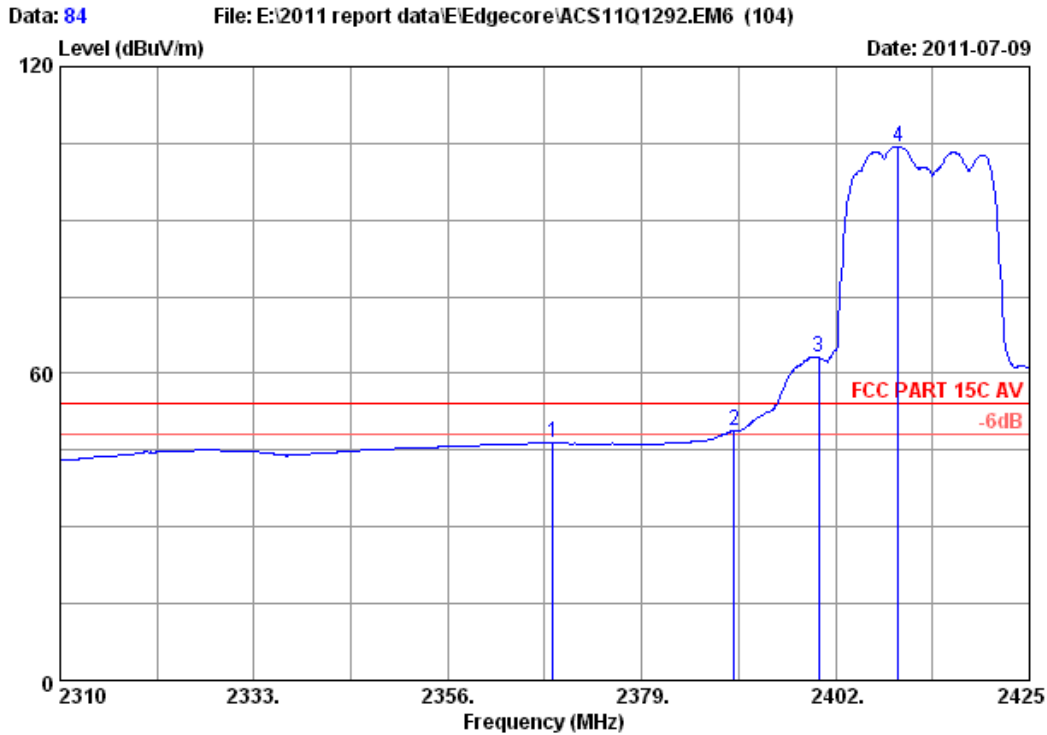


Site no. : 3m Chamber Data no. : 83
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2366.005	28.41	8.44	35.91	57.69	58.63	74.00	15.37	Peak
2	2390.000	28.46	8.41	36.09	61.63	62.41	74.00	11.59	Peak
3	2400.000	28.46	8.60	36.09	86.20	87.17	74.00	-13.17	Peak
4	2416.375	28.48	8.60	35.95	113.07	114.20	74.00	-40.20	Peak

Remarks:

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

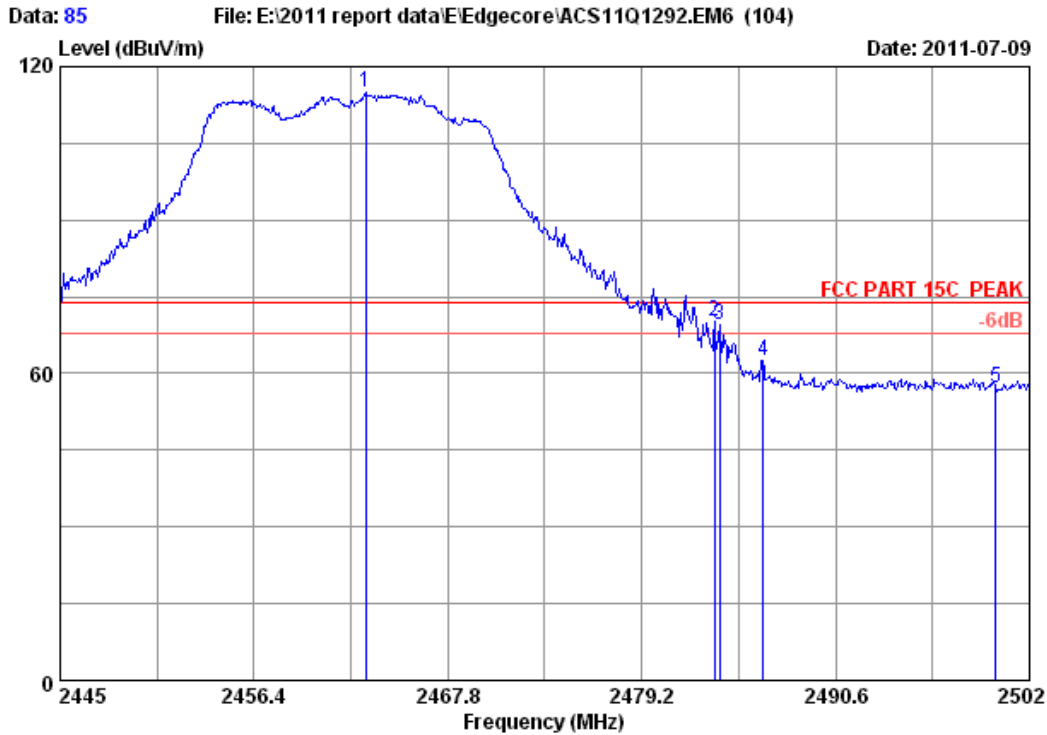


Site no. : 3m Chamber Data no. : 84
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2368.420	28.41	8.44	35.91	45.53	46.47	54.00	7.53	Average
2	2390.000	28.46	8.41	36.09	47.98	48.76	54.00	5.24	Average
3	2400.000	28.46	8.60	36.09	62.07	63.04	54.00	-9.04	Average
4	2409.475	28.48	8.60	35.95	103.25	104.38	54.00	-50.38	Average

Remarks:

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

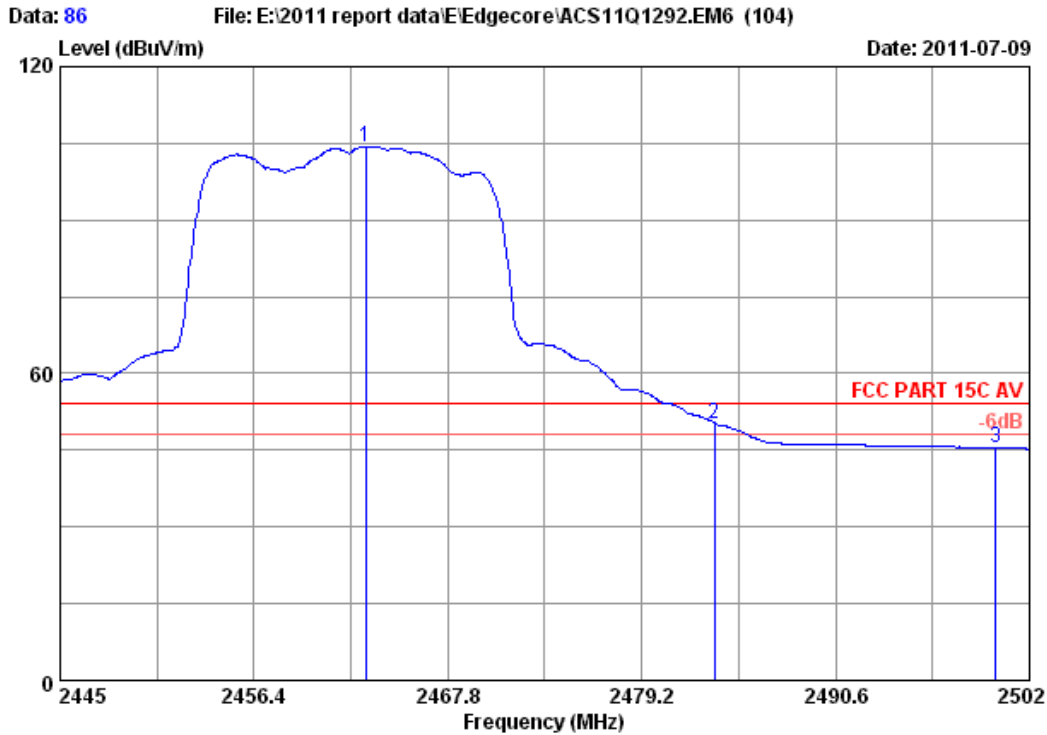


Site no. : 3m Chamber Data no. : 85
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.955	28.55	8.76	36.02	113.57	114.86	74.00	-40.86	Peak
2	2483.500	28.58	8.94	35.97	68.62	70.17	74.00	3.83	Peak
3	2483.760	28.58	8.94	35.97	67.99	69.54	74.00	4.46	Peak
4	2486.325	28.58	8.94	35.97	60.89	62.44	74.00	11.56	Peak
5	2500.000	28.60	8.89	36.00	55.68	57.17	74.00	16.83	Peak

Remarks:

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

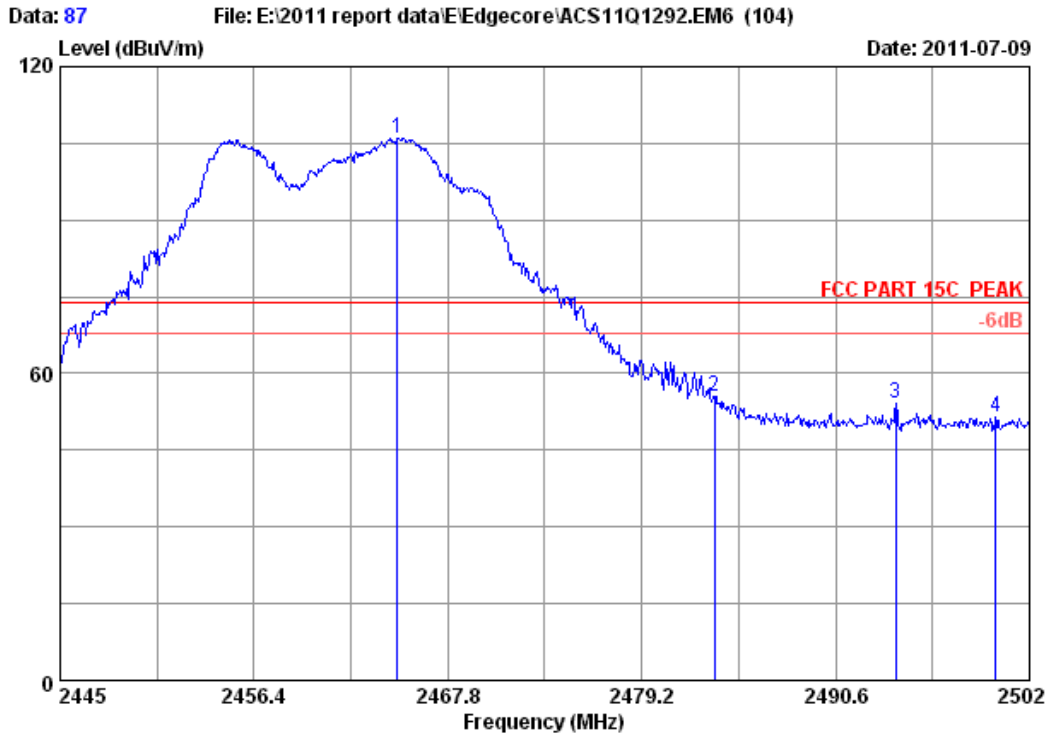


Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.955	28.55	8.76	36.02	103.04	104.33	54.00	-50.33	Average
2	2483.500	28.58	8.94	35.97	48.65	50.20	54.00	3.80	Average
3	2500.000	28.60	8.89	36.00	43.97	45.46	54.00	8.54	Average

Remarks:

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

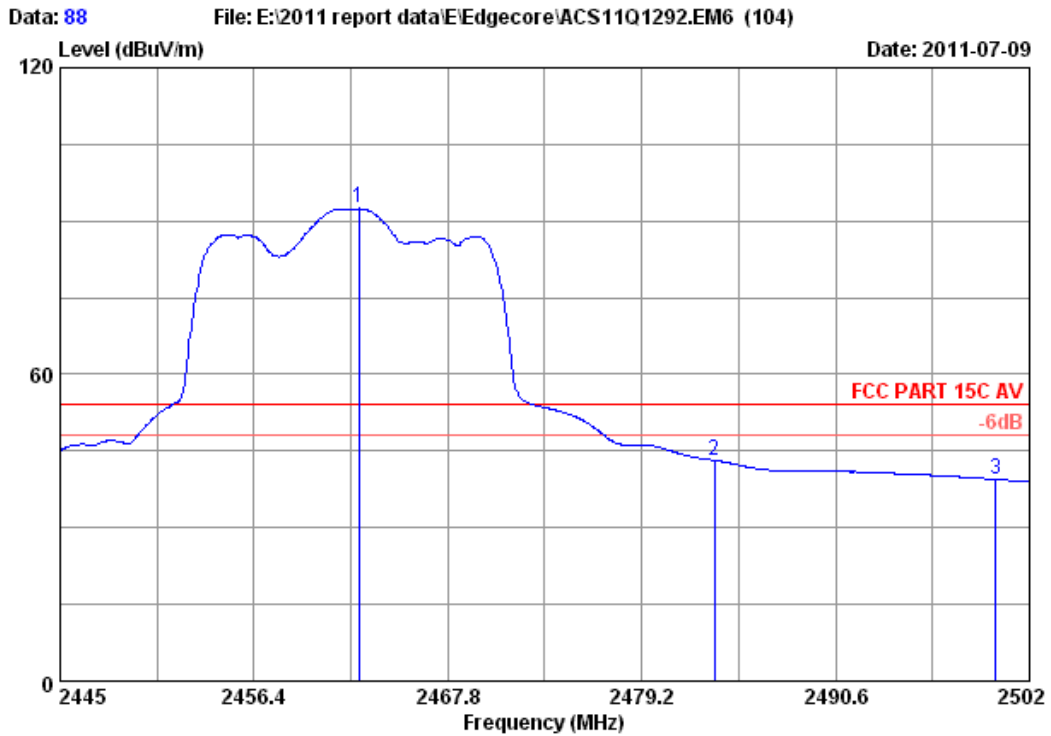


Site no. : 3m Chamber Data no. : 87
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.836	28.55	8.76	36.02	104.80	106.09	74.00	-32.09	Peak
2	2483.500	28.58	8.94	35.97	53.99	55.54	74.00	18.46	Peak
3	2494.134	28.60	8.94	36.00	52.56	54.10	74.00	19.90	Peak
4	2500.000	28.60	8.89	36.00	50.09	51.58	74.00	22.42	Peak

Remarks:

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

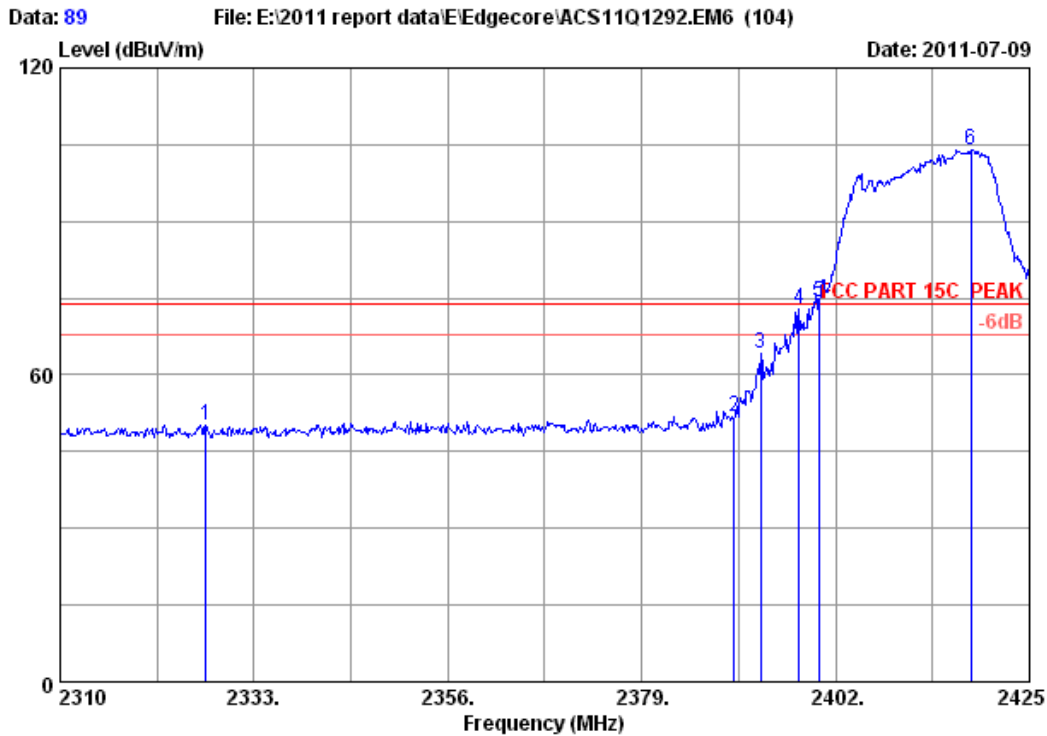


Site no. : 3m Chamber Data no. : 88
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.556	28.55	8.76	36.02	91.13	92.42	54.00	-38.42	Average
2	2483.500	28.58	8.94	35.97	41.62	43.17	54.00	10.83	Average
3	2500.000	28.60	8.89	36.00	37.92	39.41	54.00	14.59	Average

Remarks:

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

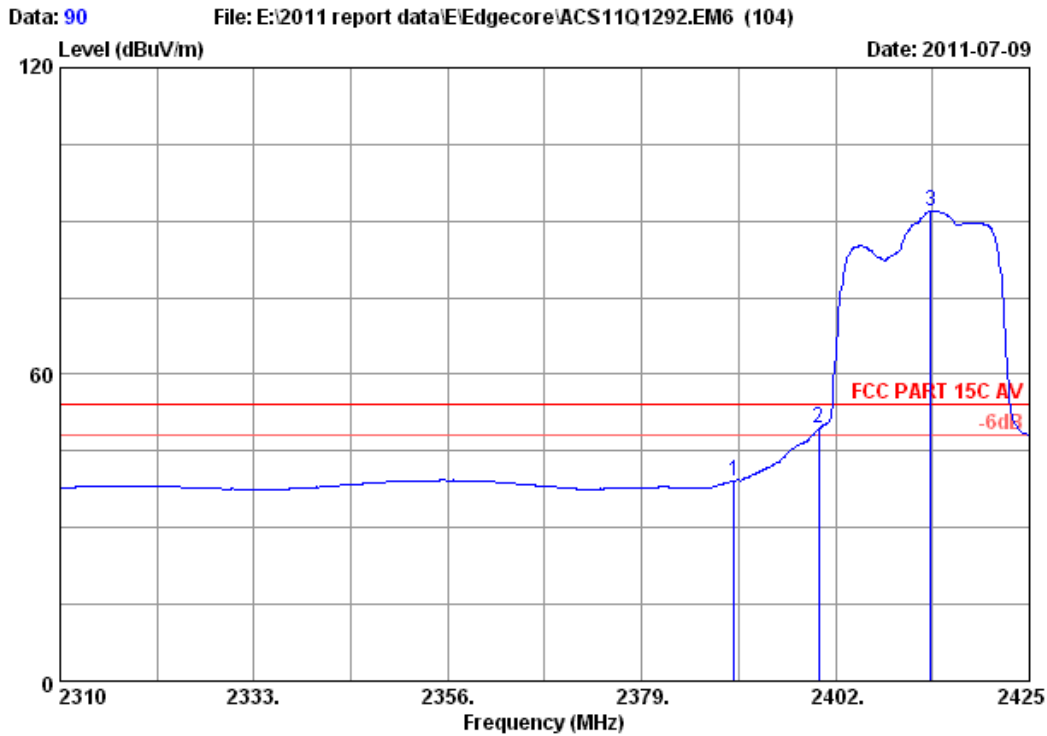


Site no. : 3m Chamber Data no. : 89
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2327.250	28.36	8.64	36.06	49.27	50.21	74.00	23.79	Peak
2	2390.000	28.46	8.41	36.09	51.04	51.82	74.00	22.18	Peak
3	2393.145	28.46	8.41	36.09	63.44	64.22	74.00	9.78	Peak
4	2397.630	28.46	8.41	36.09	72.18	72.96	74.00	1.04	Peak
5	2400.000	28.46	8.60	36.09	73.29	74.26	74.00	-0.26	Peak
6	2418.100	28.48	8.60	35.95	102.84	103.97	74.00	-29.97	Peak

Remarks:

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

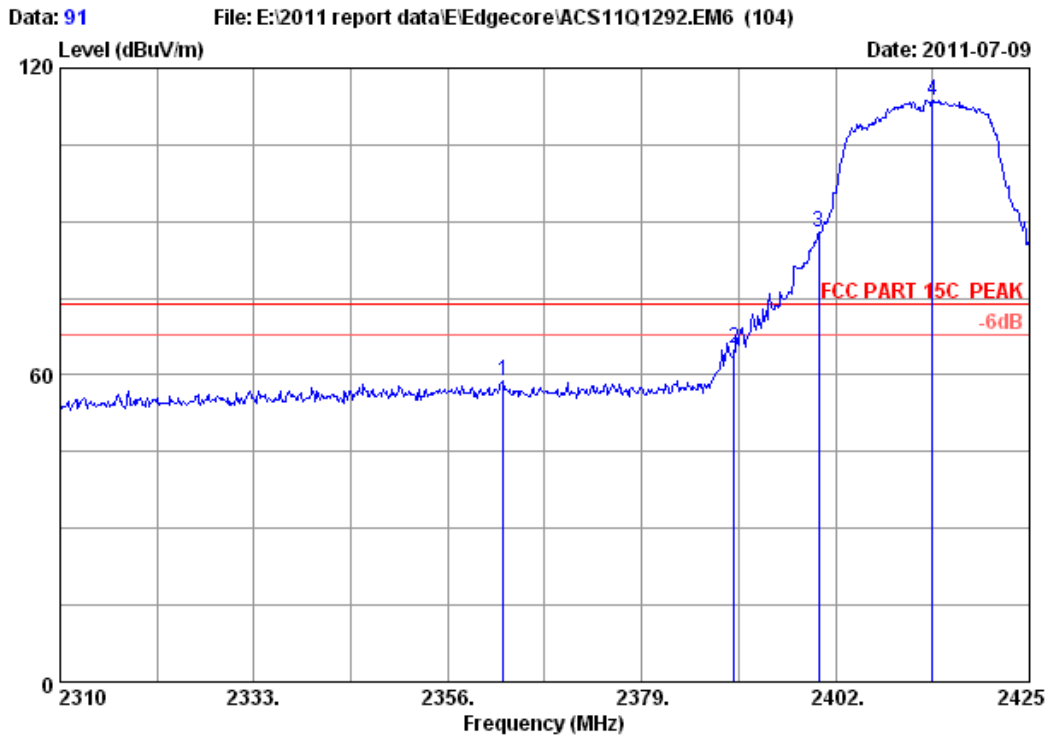


Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.46	8.41	36.09	38.40	39.18	54.00	14.82	Average
2	2400.000	28.46	8.60	36.09	48.43	49.40	54.00	4.60	Average
3	2413.270	28.48	8.60	35.95	90.78	91.91	54.00	-37.91	Average

Remarks:

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

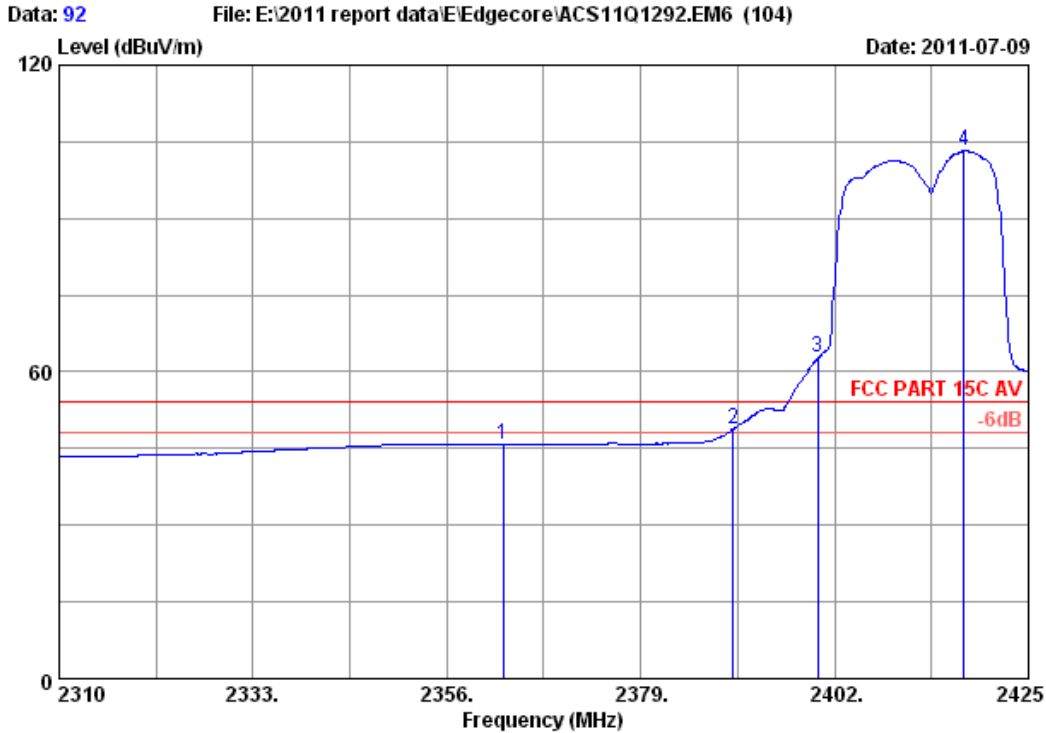


Site no. : 3m Chamber Data no. : 91
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2362.555	28.41	8.44	35.91	57.73	58.67	74.00	15.33	Peak
2	2390.000	28.46	8.41	36.09	64.36	65.14	74.00	8.86	Peak
3	2400.000	28.46	8.60	36.09	86.84	87.81	74.00	-13.81	Peak
4	2413.500	28.48	8.60	35.95	112.57	113.70	74.00	-39.70	Peak

Remarks:

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

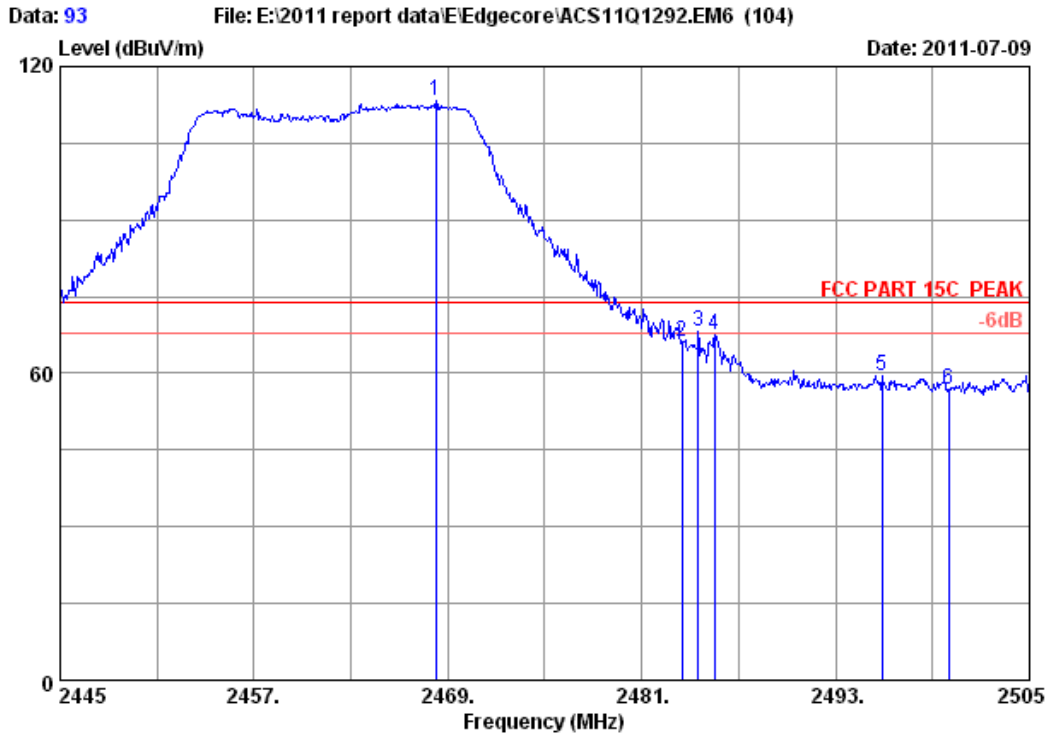


Site no. : 3m Chamber Data no. : 92
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2362.670	28.41	8.44	35.91	45.01	45.95	54.00	8.05	Average
2	2390.000	28.46	8.41	36.09	48.10	48.88	54.00	5.12	Average
3	2400.000	28.46	8.60	36.09	61.79	62.76	54.00	-8.76	Average
4	2417.295	28.48	8.60	35.95	102.08	103.21	54.00	-49.21	Average

Remarks:

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

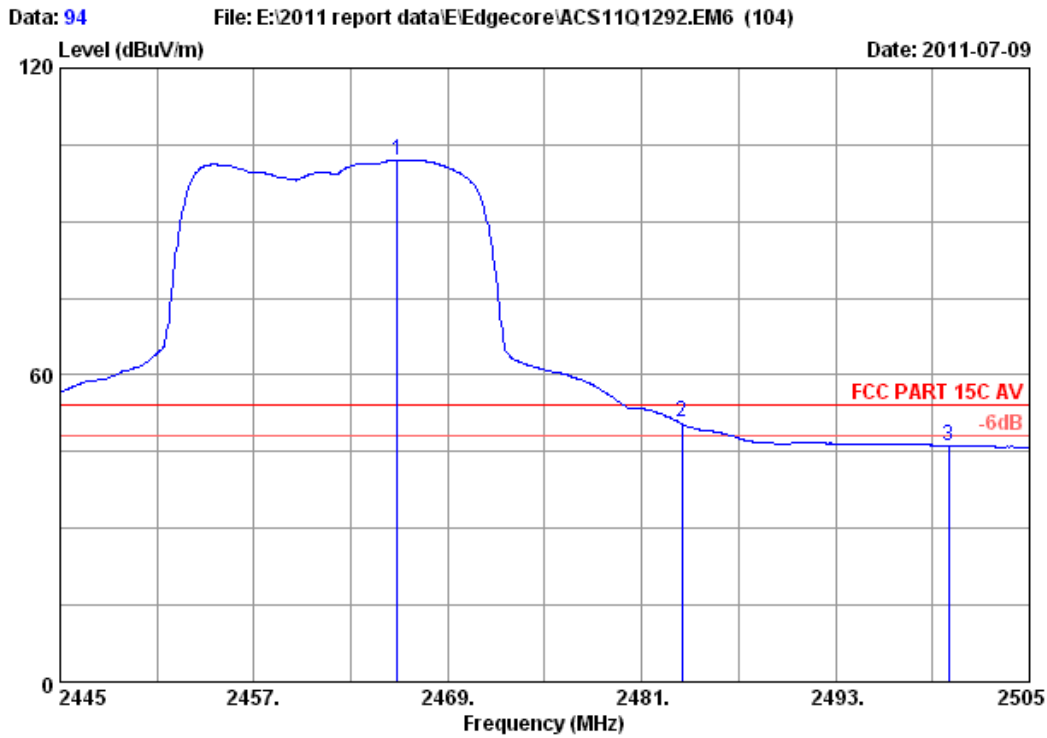


Site no. : 3m Chamber Data no. : 93
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	2468.280	28.55	8.76	36.02	112.00	113.29	74.00	-39.29	Peak
2	2483.500	28.58	8.94	35.97	64.74	66.29	74.00	7.71	Peak
3	2484.480	28.58	8.94	35.97	66.76	68.31	74.00	5.69	Peak
4	2485.500	28.58	8.94	35.97	65.98	67.53	74.00	6.47	Peak
5	2495.880	28.60	8.94	36.00	58.05	59.59	74.00	14.41	Peak
6	2500.000	28.60	8.89	36.00	55.37	56.86	74.00	17.14	Peak

Remarks:

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

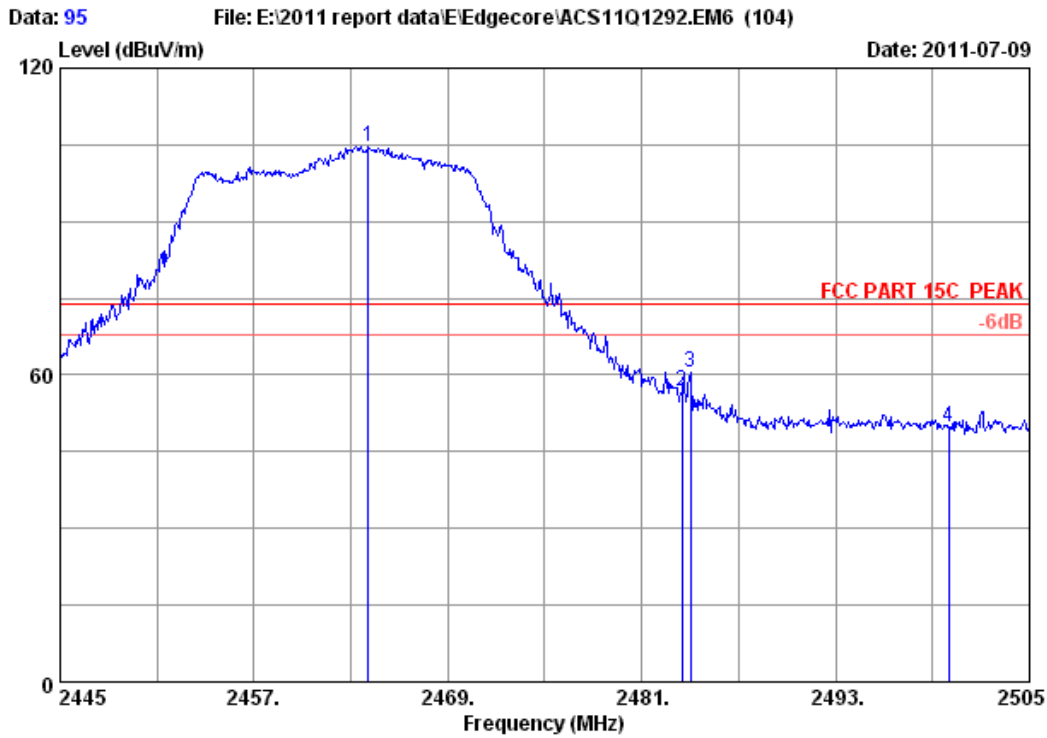


Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2465.880	28.55	8.76	36.02	100.80	102.09	54.00	-48.09	Average
2	2483.500	28.58	8.94	35.97	49.23	50.78	54.00	3.22	Average
3	2500.000	28.60	8.89	36.00	44.72	46.21	54.00	7.79	Average

Remarks:

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

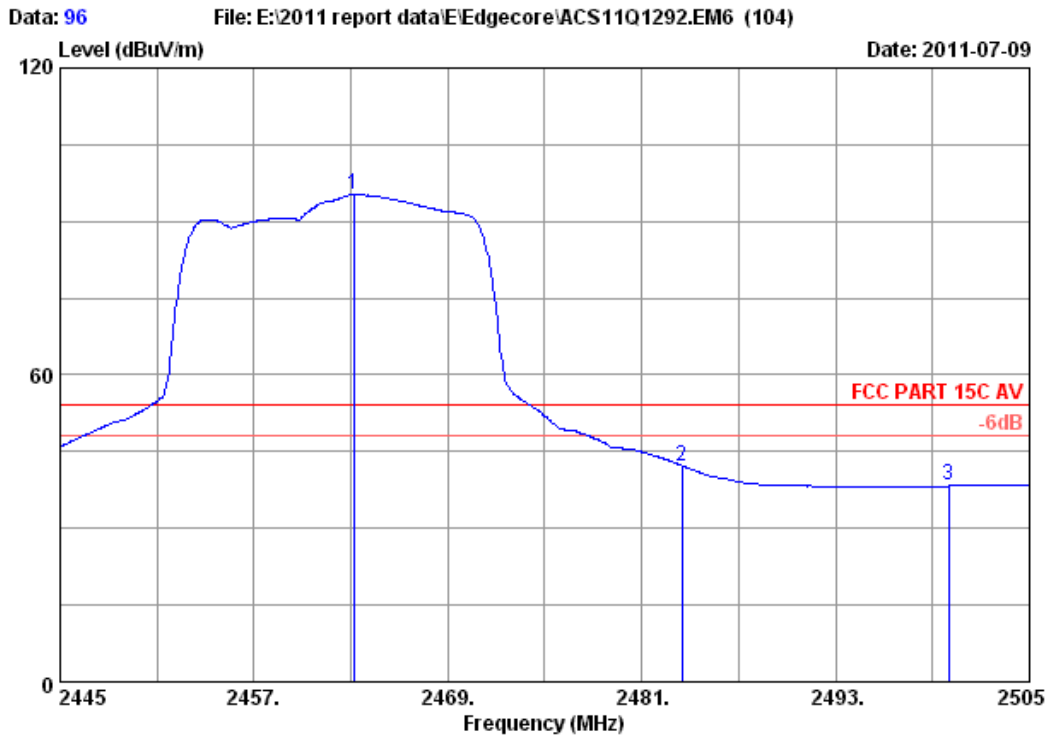


Site no. : 3m Chamber Data no. : 95
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.080	28.55	8.76	36.02	103.21	104.50	74.00	-30.50	Peak
2	2483.500	28.58	8.94	35.97	55.20	56.75	74.00	17.25	Peak
3	2484.000	28.58	8.94	35.97	59.01	60.56	74.00	13.44	Peak
4	2500.000	28.60	8.89	36.00	48.38	49.87	74.00	24.13	Peak

Remarks:

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

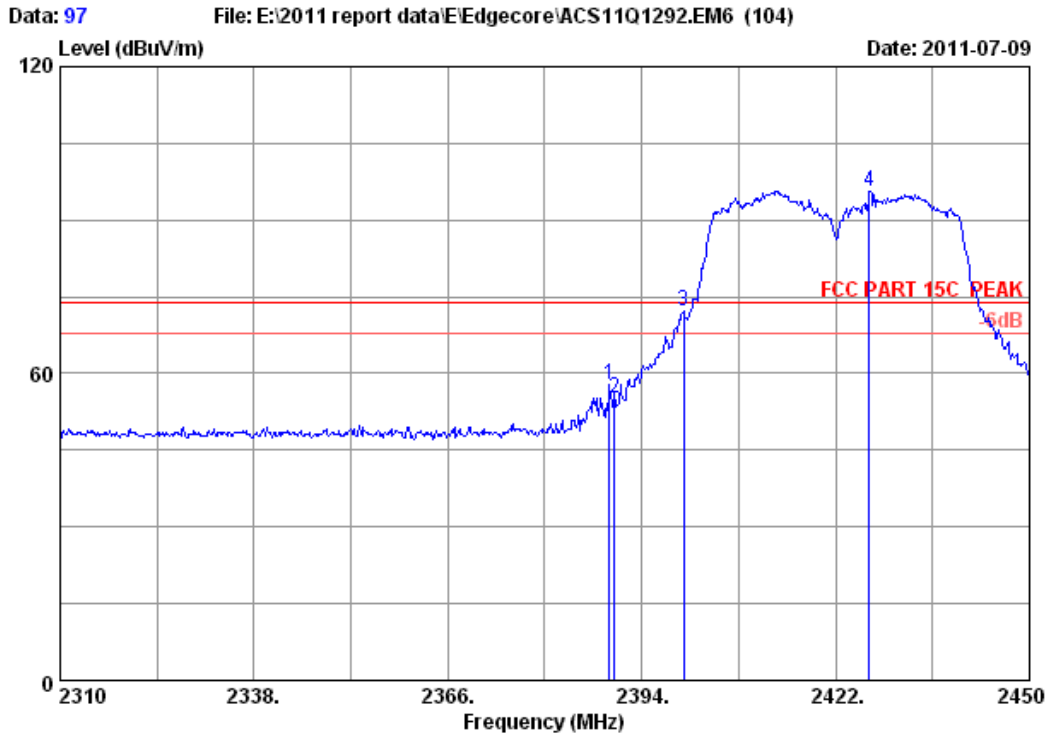


Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.180	28.55	8.76	36.02	93.94	95.23	54.00	-41.23	Average
2	2483.500	28.58	8.94	35.97	40.71	42.26	54.00	11.74	Average
3	2500.000	28.60	8.89	36.00	36.80	38.29	54.00	15.71	Average

Remarks:

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

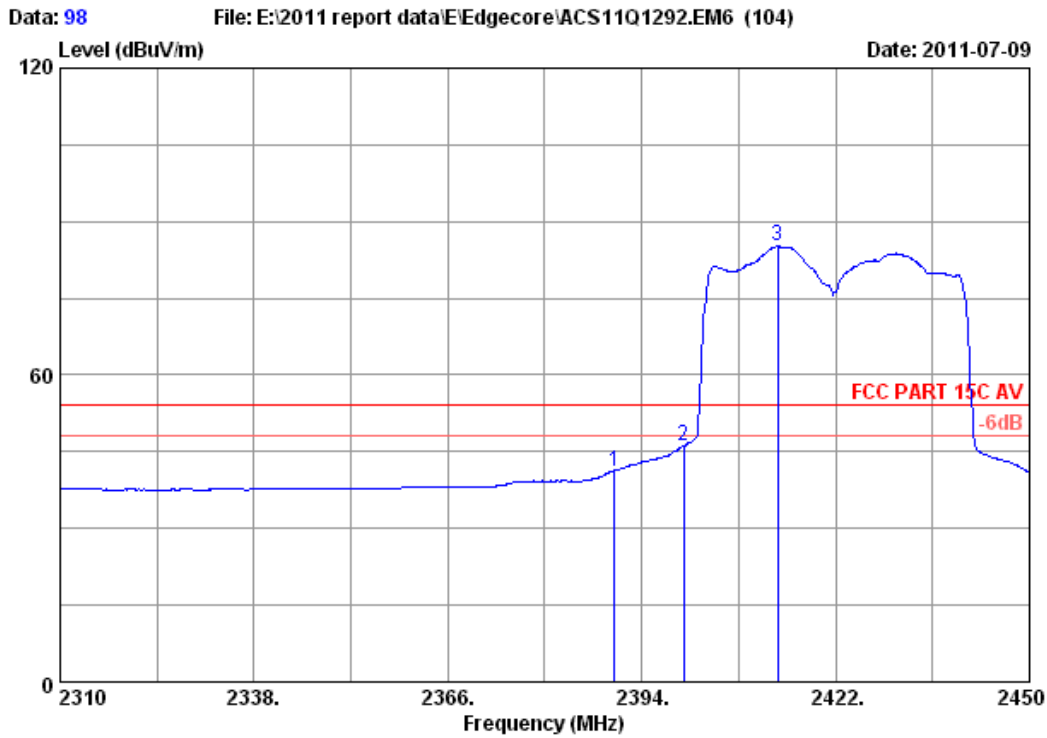


Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.380	28.46	8.41	36.09	57.04	57.82	74.00	16.18	Peak
2	2390.000	28.46	8.41	36.09	54.34	55.12	74.00	18.88	Peak
3	2400.000	28.46	8.60	36.09	71.13	72.10	74.00	1.90	Peak
4	2426.900	28.50	8.60	36.01	94.61	95.70	74.00	-21.70	Peak

Remarks:

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

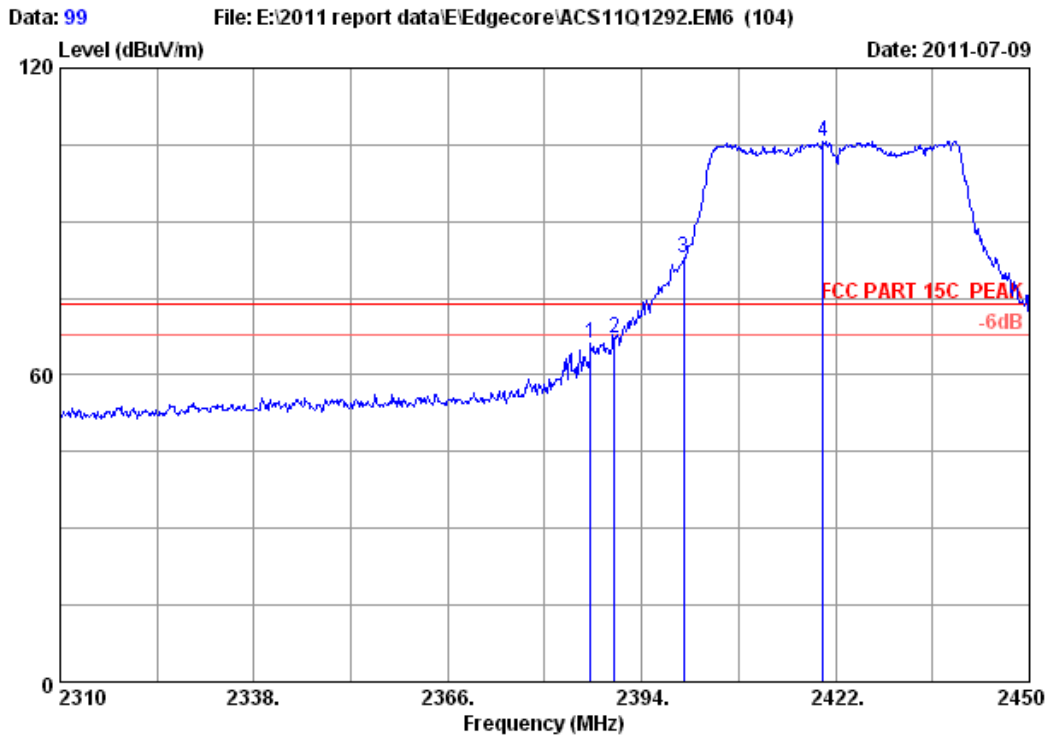


Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.46	8.41	36.09	40.47	41.25	54.00	12.75	Average
2	2400.000	28.46	8.60	36.09	45.08	46.05	54.00	7.95	Average
3	2413.600	28.48	8.60	35.95	84.00	85.13	54.00	-31.13	Average

Remarks:

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

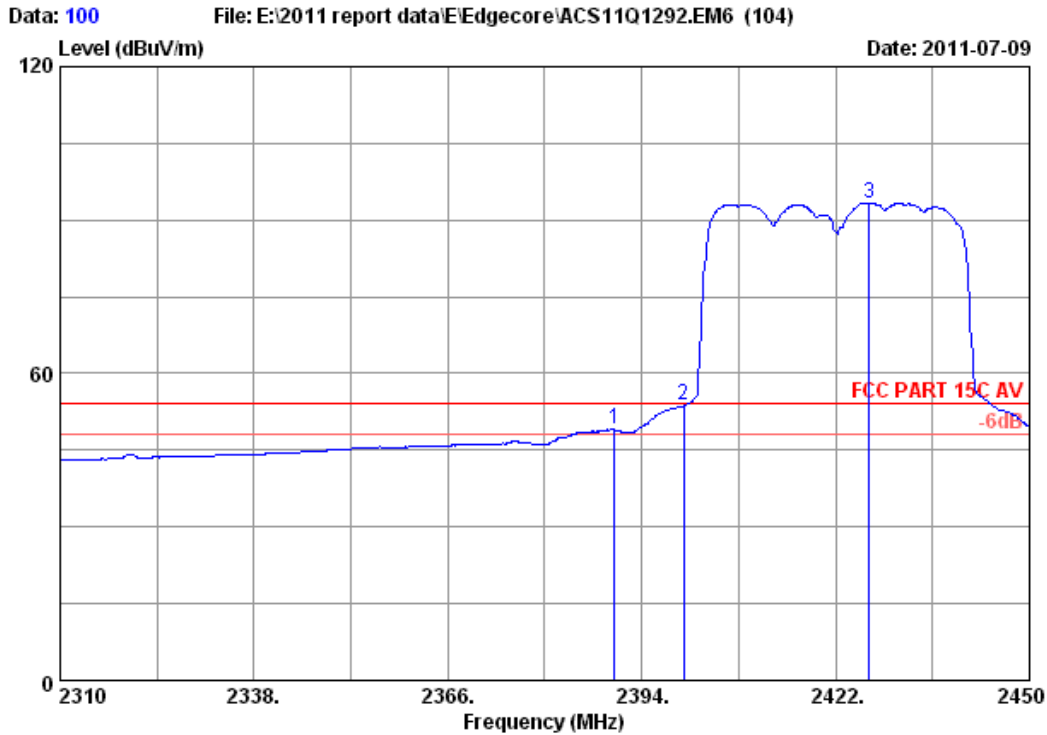


Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2386.580	28.46	8.41	36.09	65.52	66.30	74.00	7.70	Peak
2	2390.000	28.46	8.41	36.09	66.36	67.14	74.00	6.86	Peak
3	2400.000	28.46	8.60	36.09	81.95	82.92	74.00	-8.92	Peak
4	2420.180	28.50	8.60	36.01	104.69	105.78	74.00	-31.78	Peak

Remarks:

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

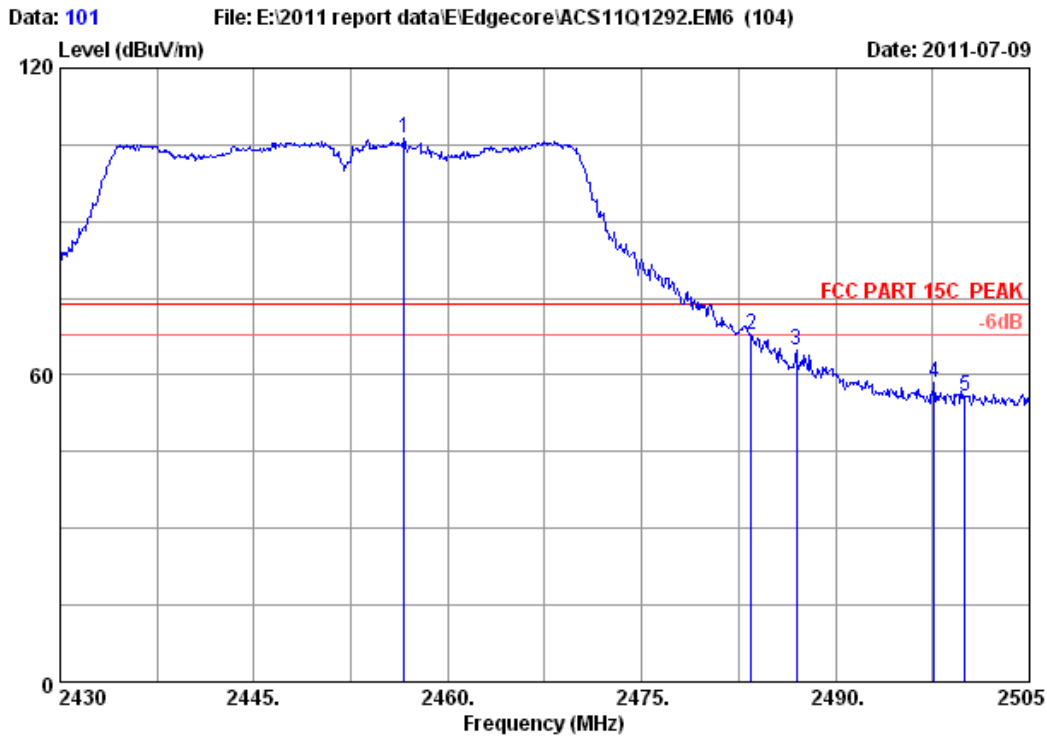


Site no. : 3m Chamber Data no. : 100
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.46	8.41	36.09	48.20	48.98	54.00	5.02	Average
2	2400.000	28.46	8.60	36.09	52.76	53.73	54.00	0.27	Average
3	2426.900	28.50	8.60	36.01	92.31	93.40	54.00	-39.40	Average

Remarks:

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

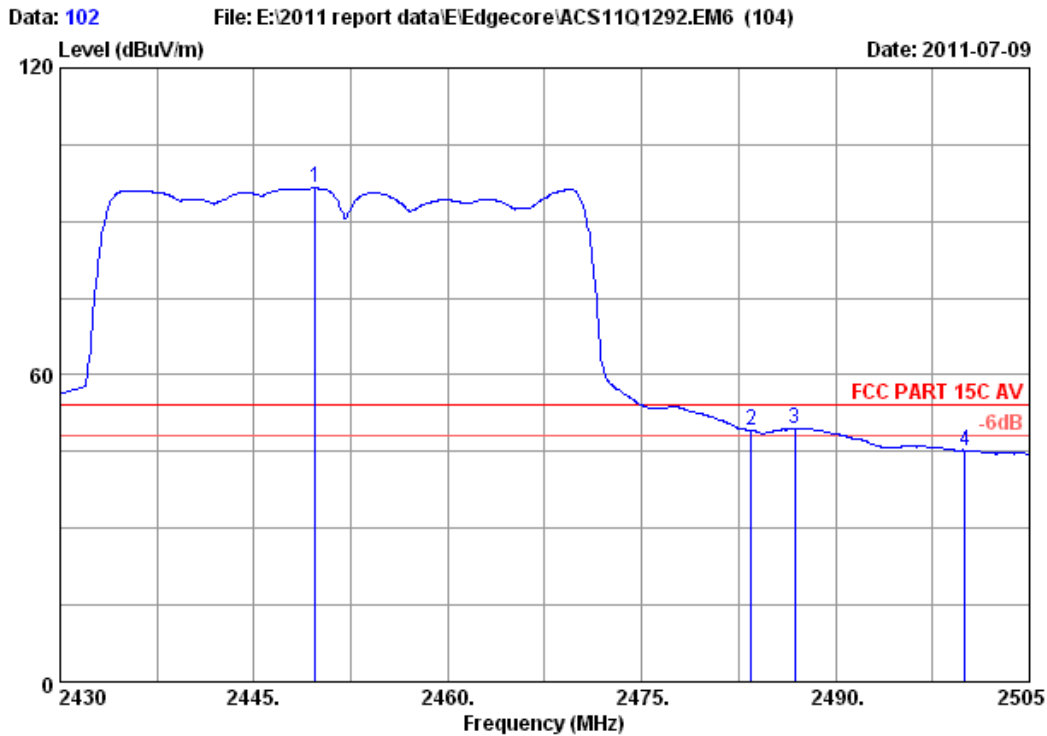


Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2456.625	28.55	8.48	36.02	105.17	106.18	74.00	-32.18	Peak
2	2483.500	28.58	8.94	35.97	66.30	67.85	74.00	6.15	Peak
3	2487.000	28.58	8.94	35.97	63.28	64.83	74.00	9.17	Peak
4	2497.650	28.60	8.94	36.00	57.02	58.56	74.00	15.44	Peak
5	2500.000	28.60	8.89	36.00	54.30	55.79	74.00	18.21	Peak

Remarks:

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

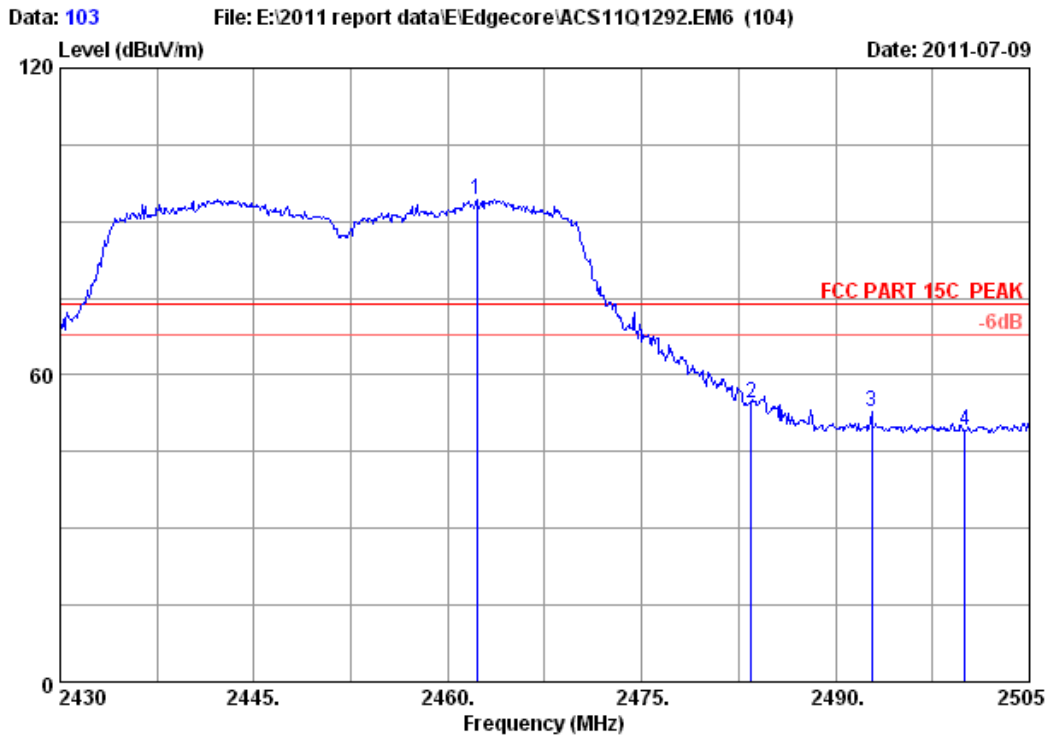


Site no. : 3m Chamber Data no. : 102
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : SMCWGBR14-N2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2449.725	28.53	8.48	36.06	95.53	96.48	54.00	-42.48	Average
2	2483.500	28.58	8.94	35.97	47.61	49.16	54.00	4.84	Average
3	2486.850	28.58	8.94	35.97	47.91	49.46	54.00	4.54	Average
4	2500.000	28.60	8.89	36.00	43.75	45.24	54.00	8.76	Average

Remarks:

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

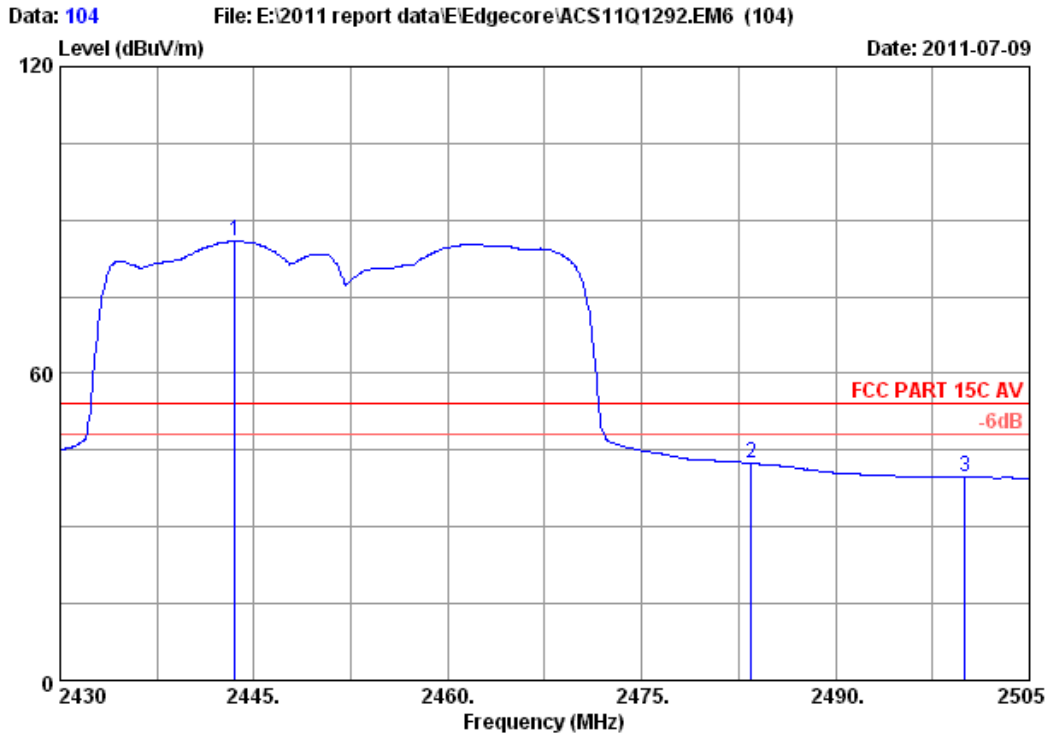


Site no. : 3m Chamber Data no. : 103
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.250	28.55	8.76	36.02	93.13	94.42	74.00	-20.42	Peak
2	2483.500	28.58	8.94	35.97	52.88	54.43	74.00	19.57	Peak
3	2492.775	28.60	8.94	36.00	51.25	52.79	74.00	21.21	Peak
4	2500.000	28.60	8.89	36.00	47.59	49.08	74.00	24.92	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 104
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 802.11n Wireless 4-port Gigabit Broadband Router
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : SMCWGBR14-N2

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2443.500	28.53	8.48	36.06	84.95	85.90	54.00	-31.90	Average
2	2483.500	28.58	8.94	35.97	40.87	42.42	54.00	11.58	Average
3	2500.000	28.60	8.89	36.00	38.32	39.81	54.00	14.19	Average

Remarks:

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

7. 6dB Bandwidth Test

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,11	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,11	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,11	1 Year

7.2. Limit

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

7.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4. Test Results

Chain 1:

Test Mode: IEEE 802.11b TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	12.00	>500	PASS
6	12.08	>500	PASS
11	12.58	>500	PASS

Test Mode: IEEE 802.11g TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	16.50	>500	PASS
6	16.50	>500	PASS
11	16.33	>500	PASS

Test Mode: IEEE 802.11n HT20 TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	17.67	>500	PASS
6	17.75	>500	PASS
11	17.67	>500	PASS

Test Mode: IEEE 802.11n HT40 TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	36.50	>500	PASS
4	36.50	>500	PASS
7	36.33	>500	PASS

Chain 2:

Test Mode: IEEE 802.11b TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	12.00	>500	PASS
6	13.00	>500	PASS
11	12.17	>500	PASS

Test Mode: IEEE 802.11g TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	16.50	>500	PASS
6	16.33	>500	PASS
11	16.50	>500	PASS

Test Mode: IEEE 802.11n HT20 TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	17.75	>500	PASS
6	17.50	>500	PASS
11	17.67	>500	PASS

Test Mode: IEEE 802.11n HT40 TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	36.50	>500	PASS
4	36.50	>500	PASS
7	36.50	>500	PASS

Chain 3:

Test Mode: IEEE 802.11b TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	12.00	>500	PASS
6	12.00	>500	PASS
11	12.17	>500	PASS

Test Mode: IEEE 802.11g TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	16.42	>500	PASS
6	16.50	>500	PASS
11	16.50	>500	PASS

Test Mode: IEEE 802.11n HT20 TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	17.75	>500	PASS
6	17.67	>500	PASS
11	17.67	>500	PASS

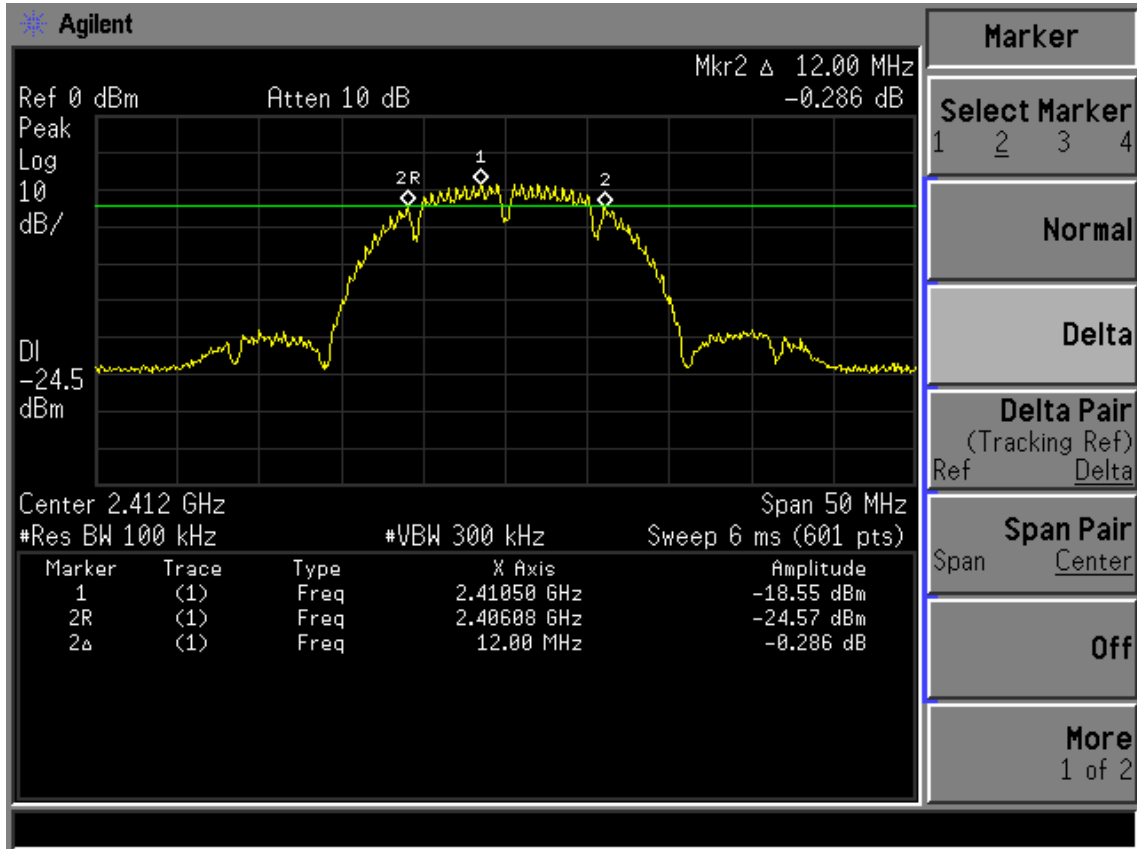
Test Mode: IEEE 802.11n HT40 TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	36.33	>500	PASS
4	36.50	>500	PASS
7	36.50	>500	PASS

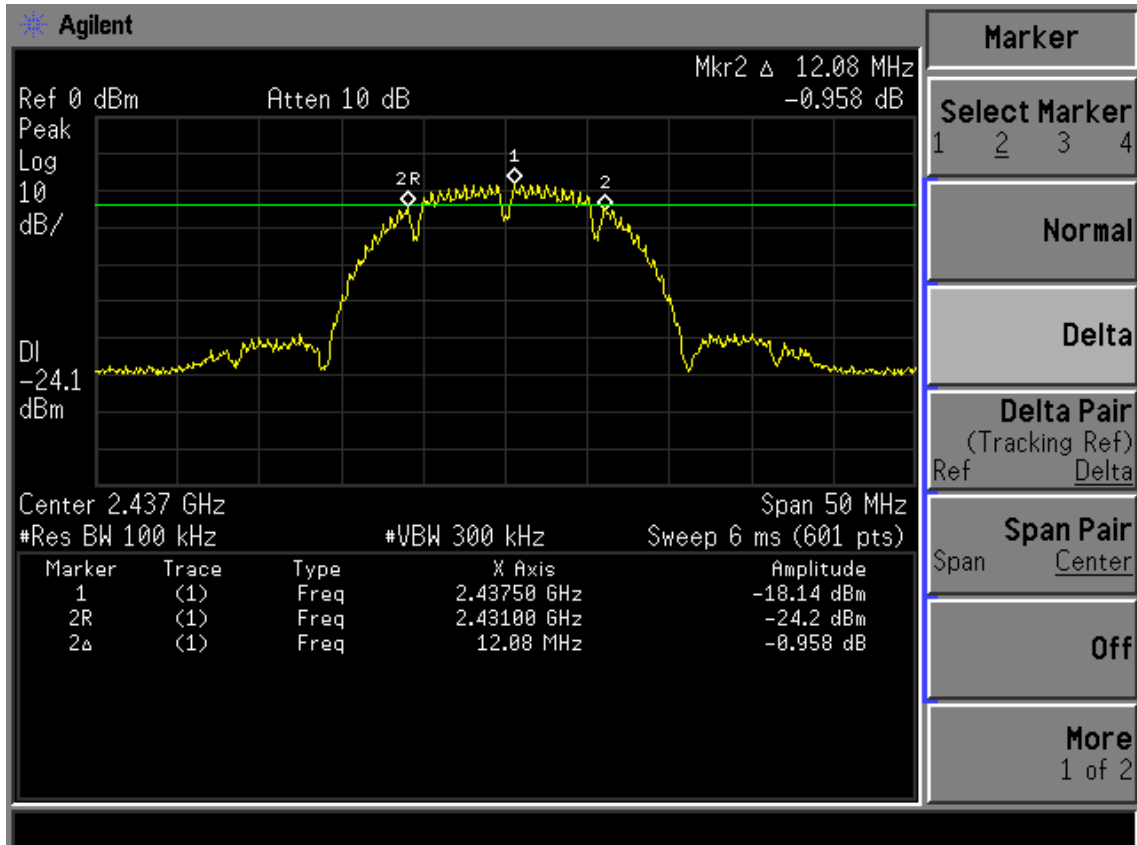
Chain 1:

Test Mode: IEEE 802.11b TX

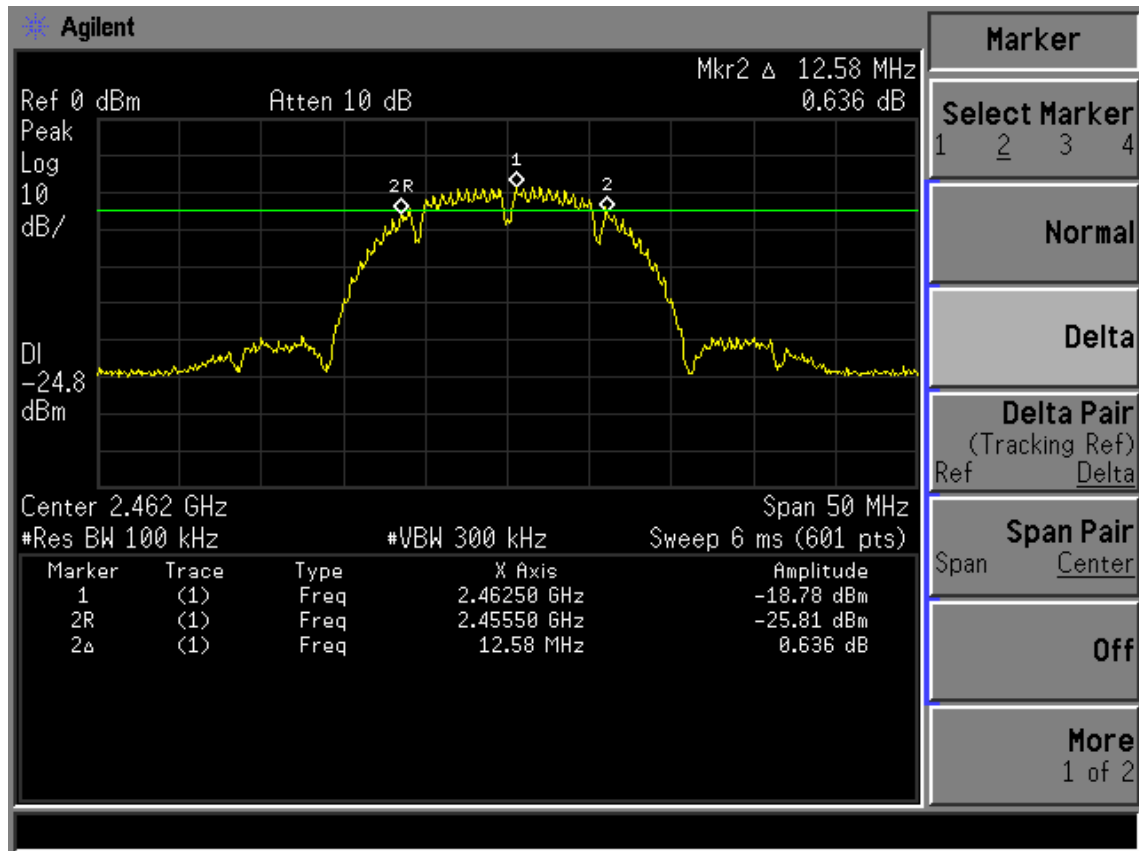
Test CH1: 2412MHz



Test CH6: 2437MHz

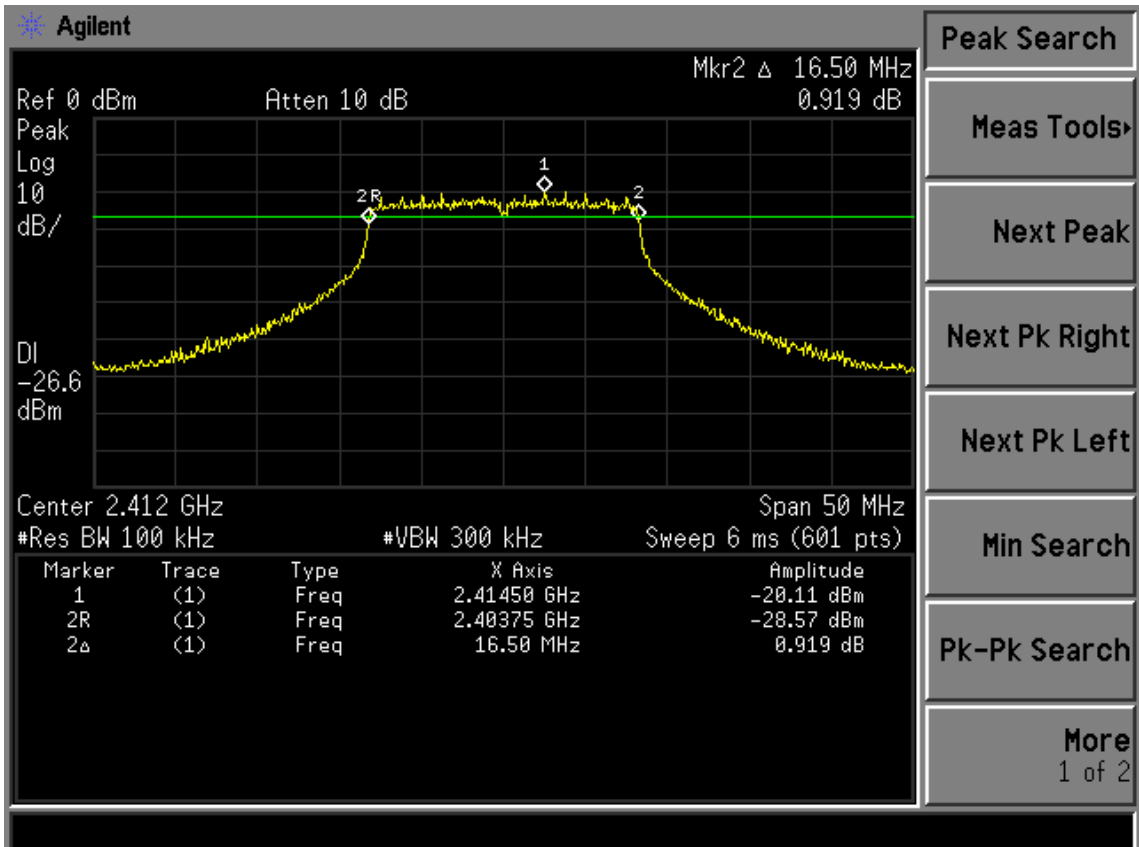


Test CH11: 2462MHz

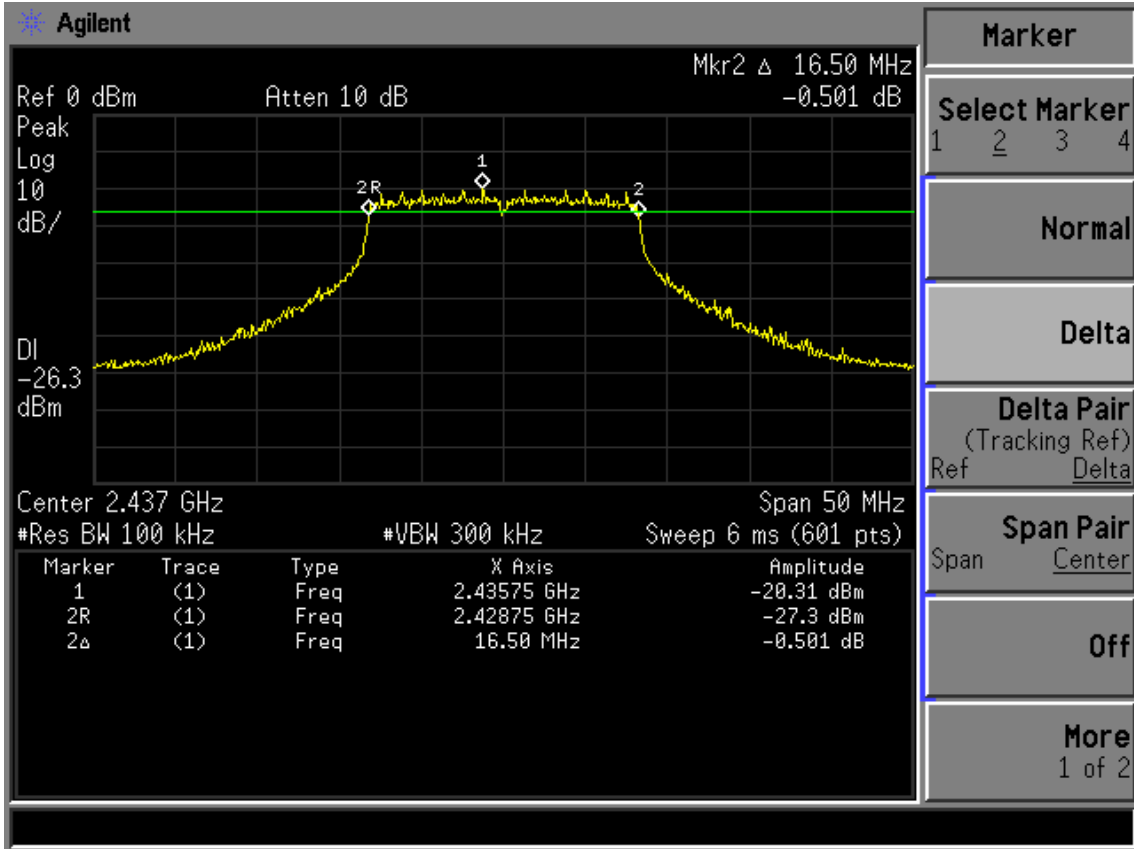


Test Mode: IEEE 802.11g TX

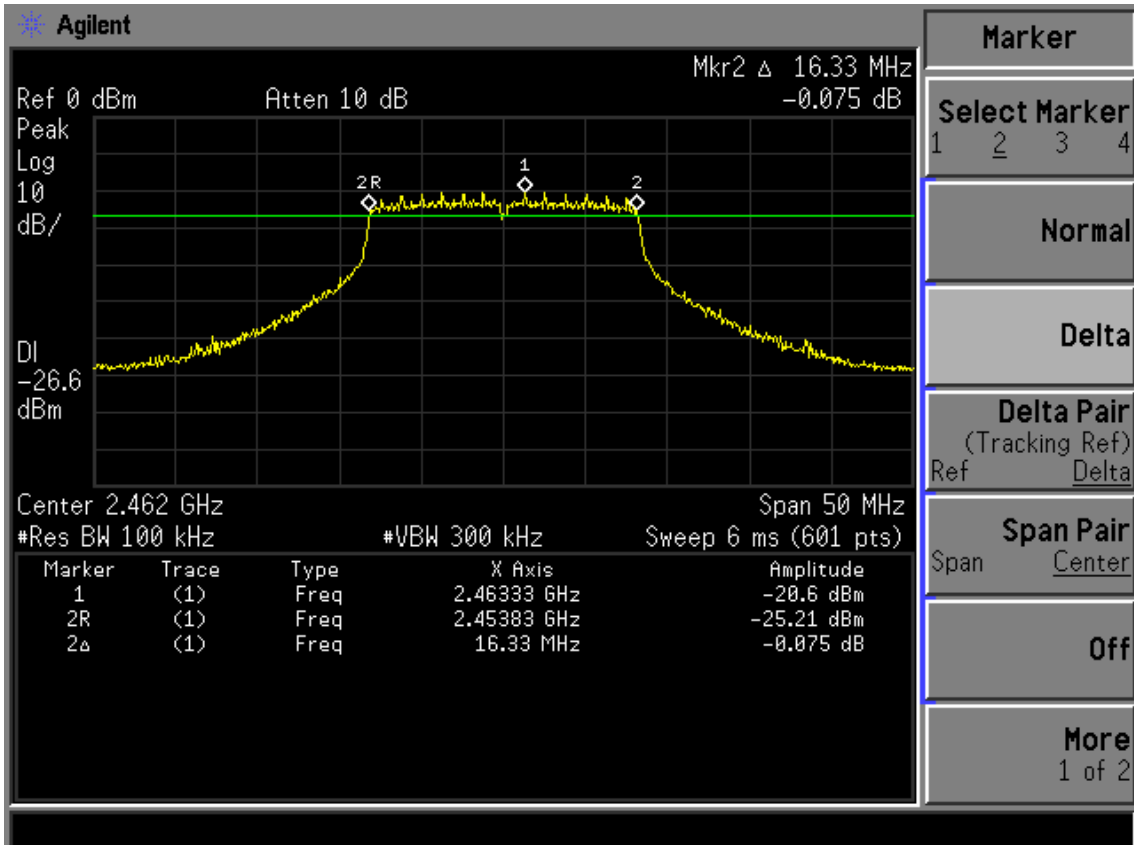
Test CH1: 2412MHz



Test CH6: 2437MHz

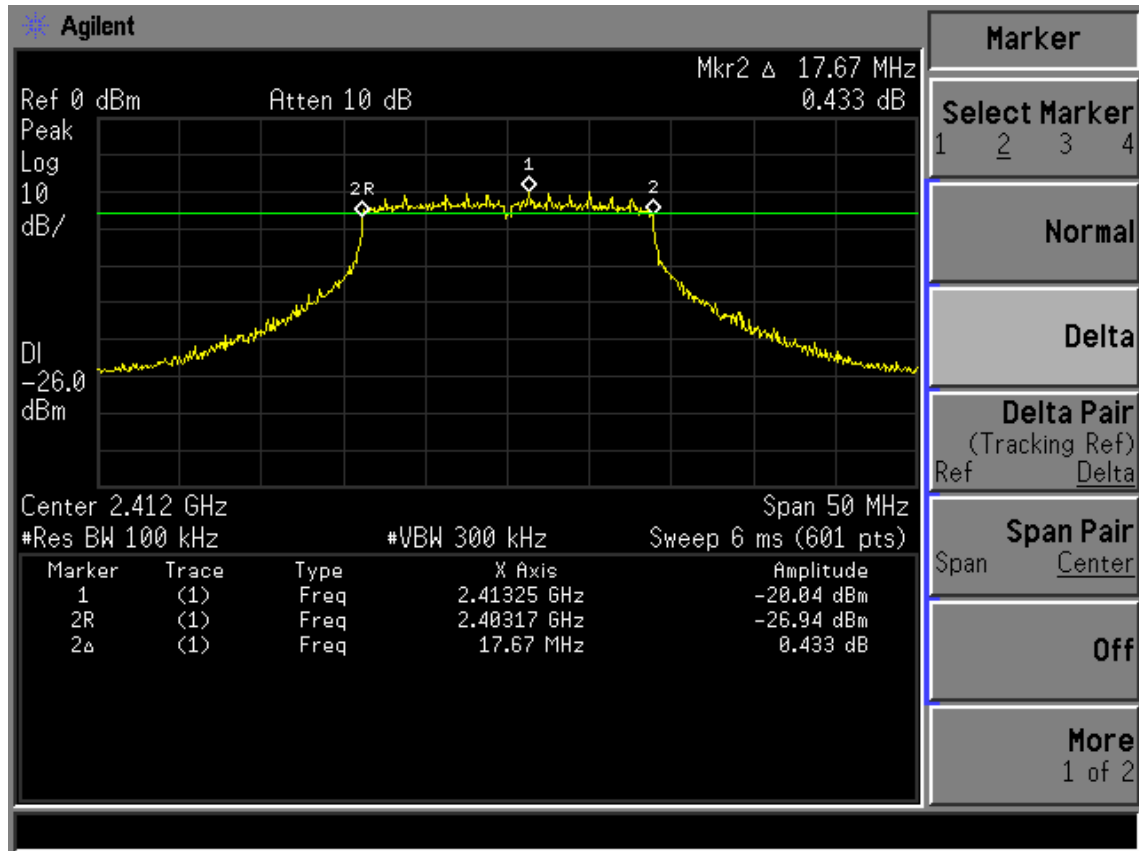


Test CH11: 2462MHz

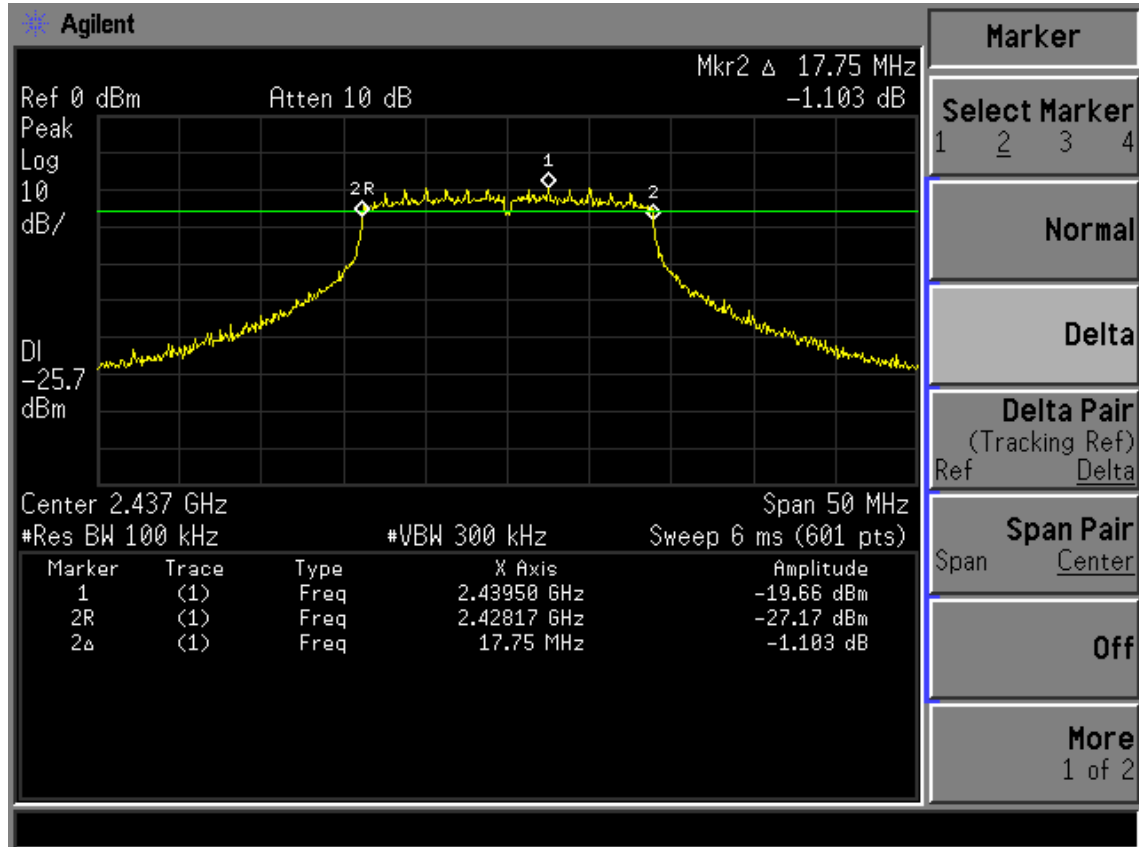


Test Mode: IEEE 802.11n HT20 TX

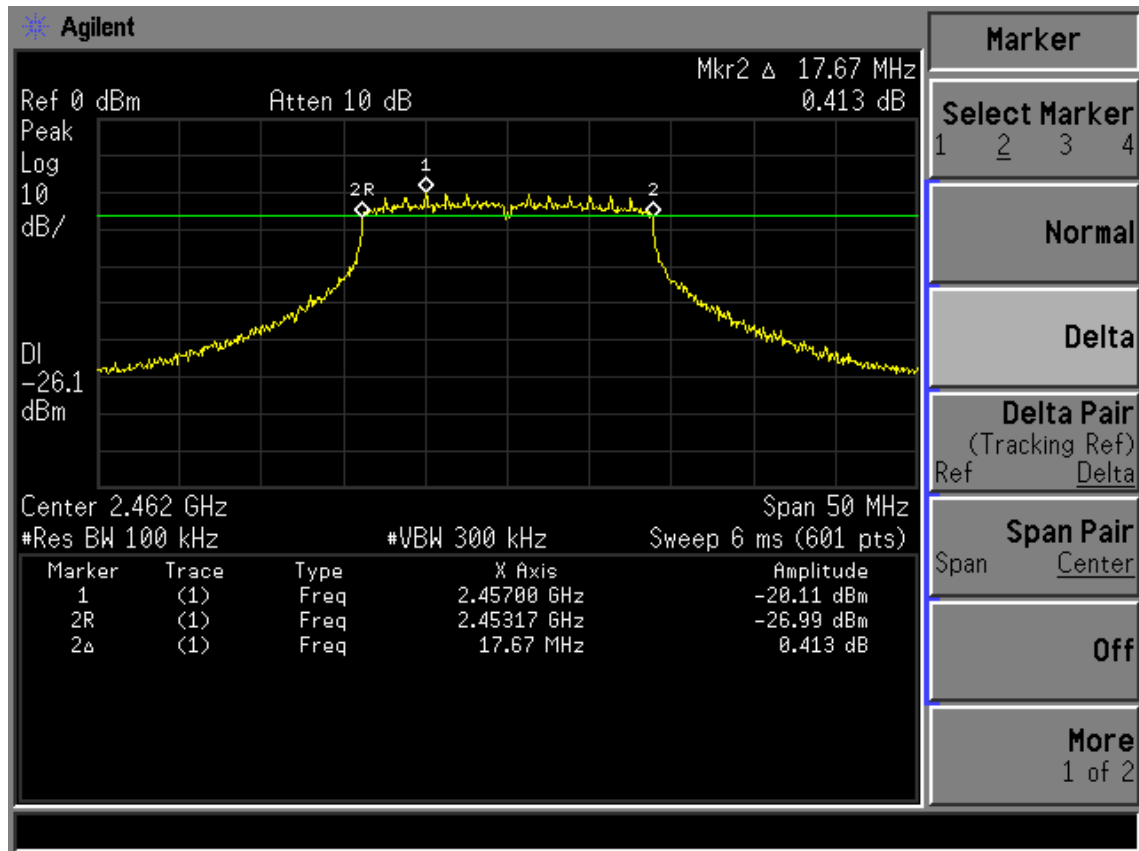
Test CH1: 2412MHz



Test CH6: 2437MHz

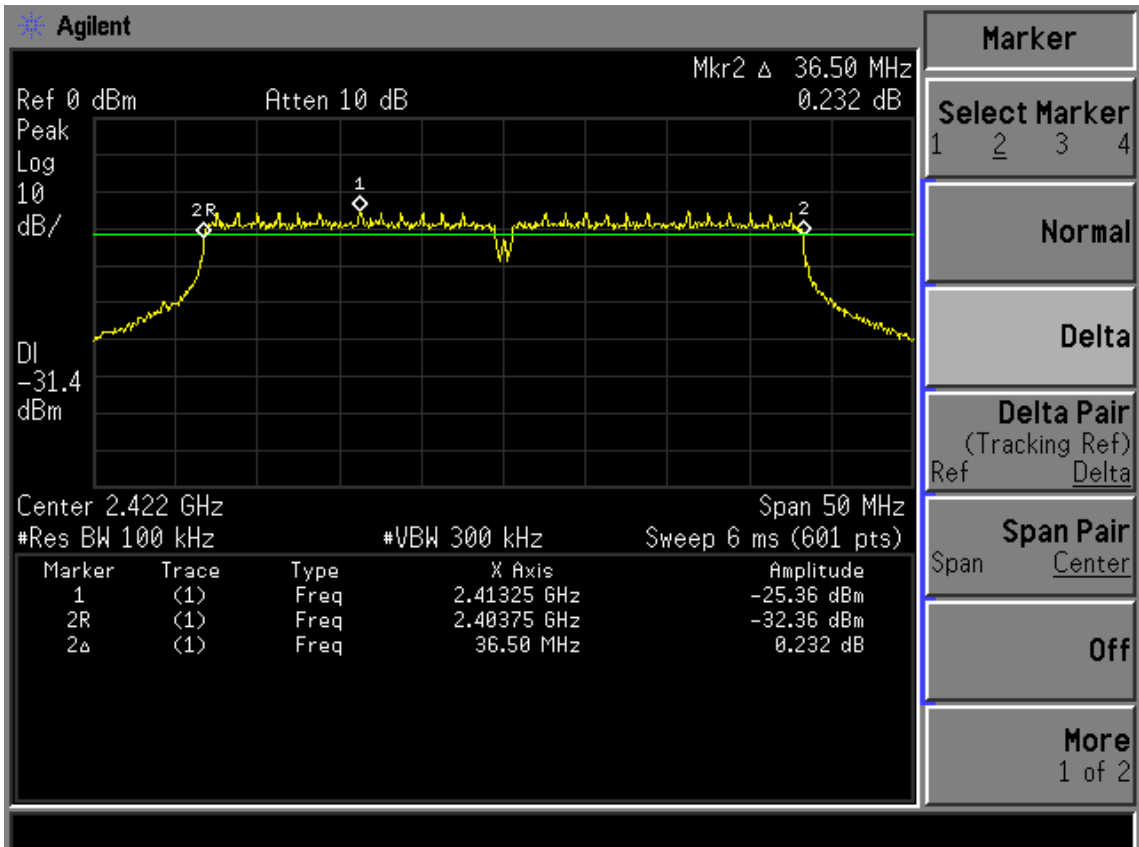


Test CH11: 2462MHz

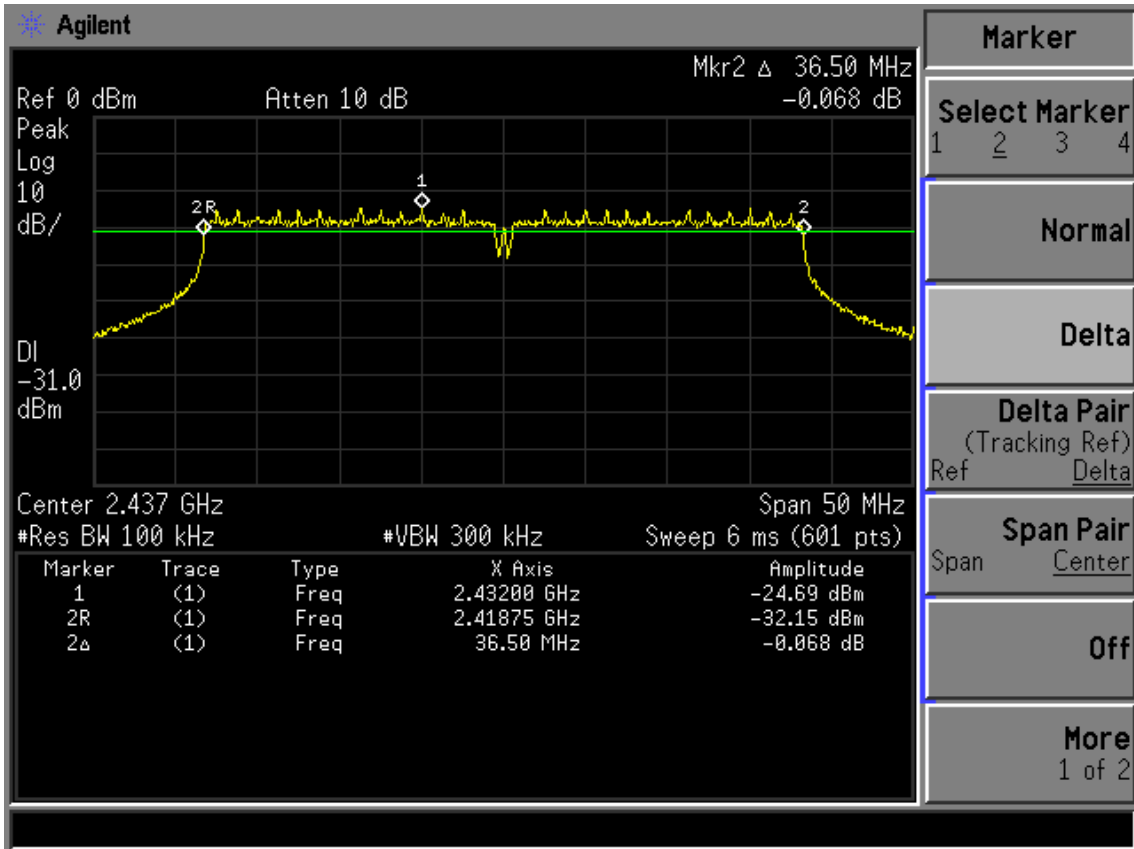


Test Mode: IEEE 802.11n HT40 TX

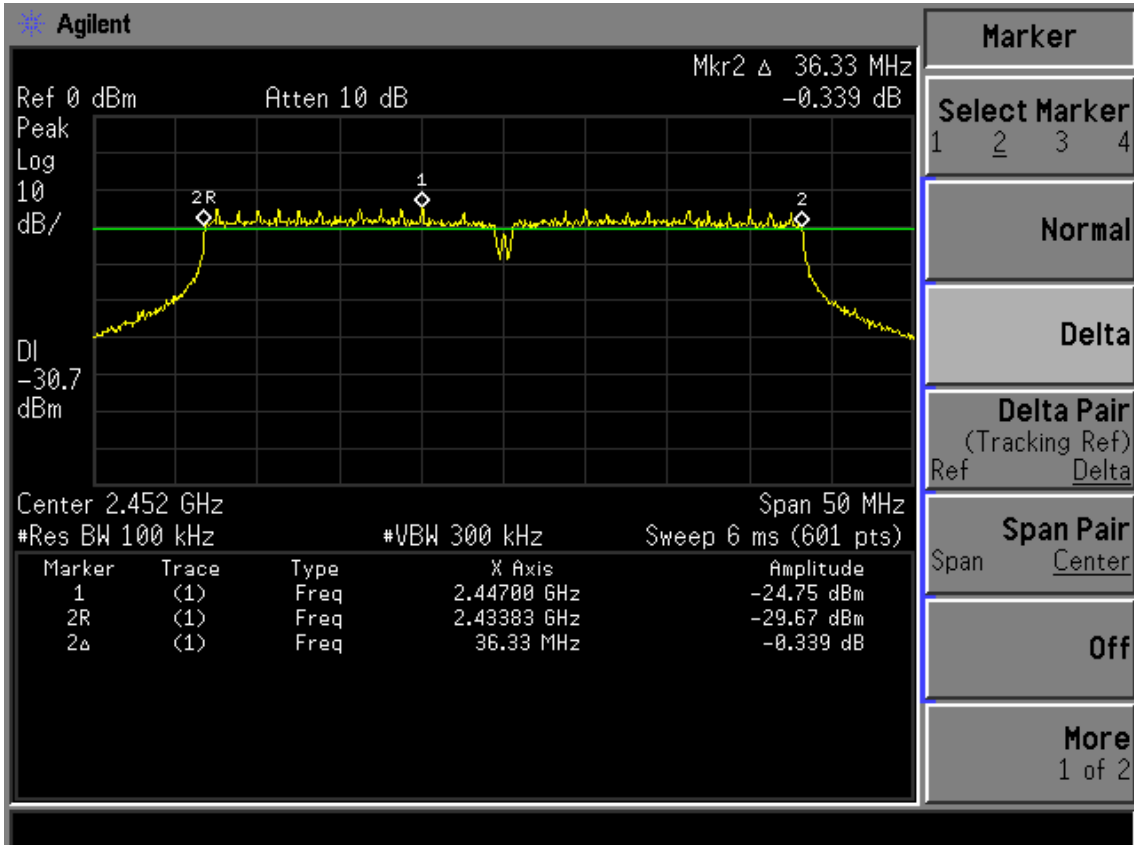
Test CH1: 2422MHz



Test CH4: 2437MHz



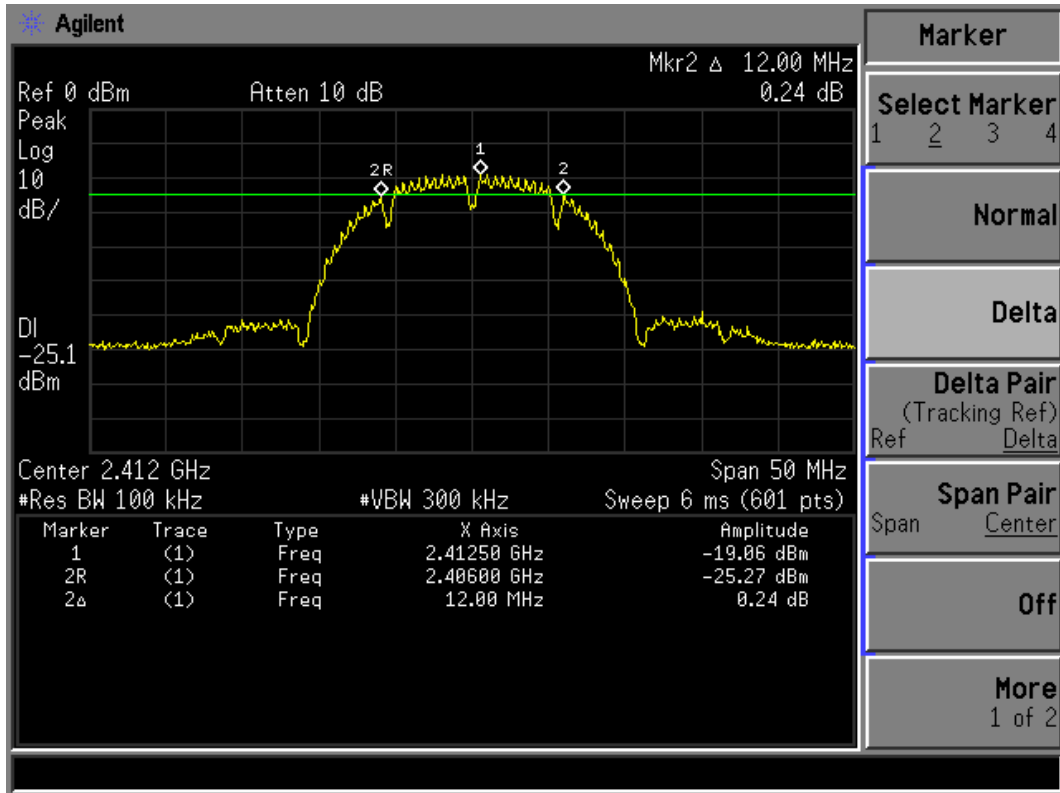
Test CH7: 2452MHz



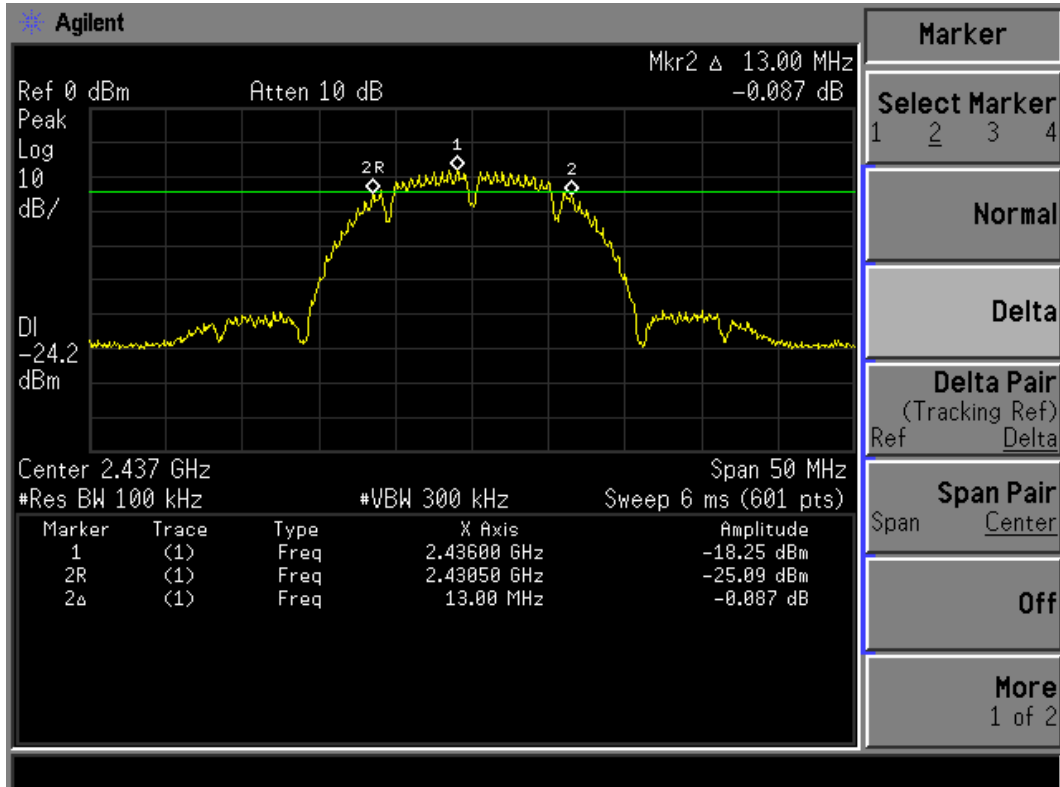
Chain 2:

Test Mode: IEEE 802.11b TX

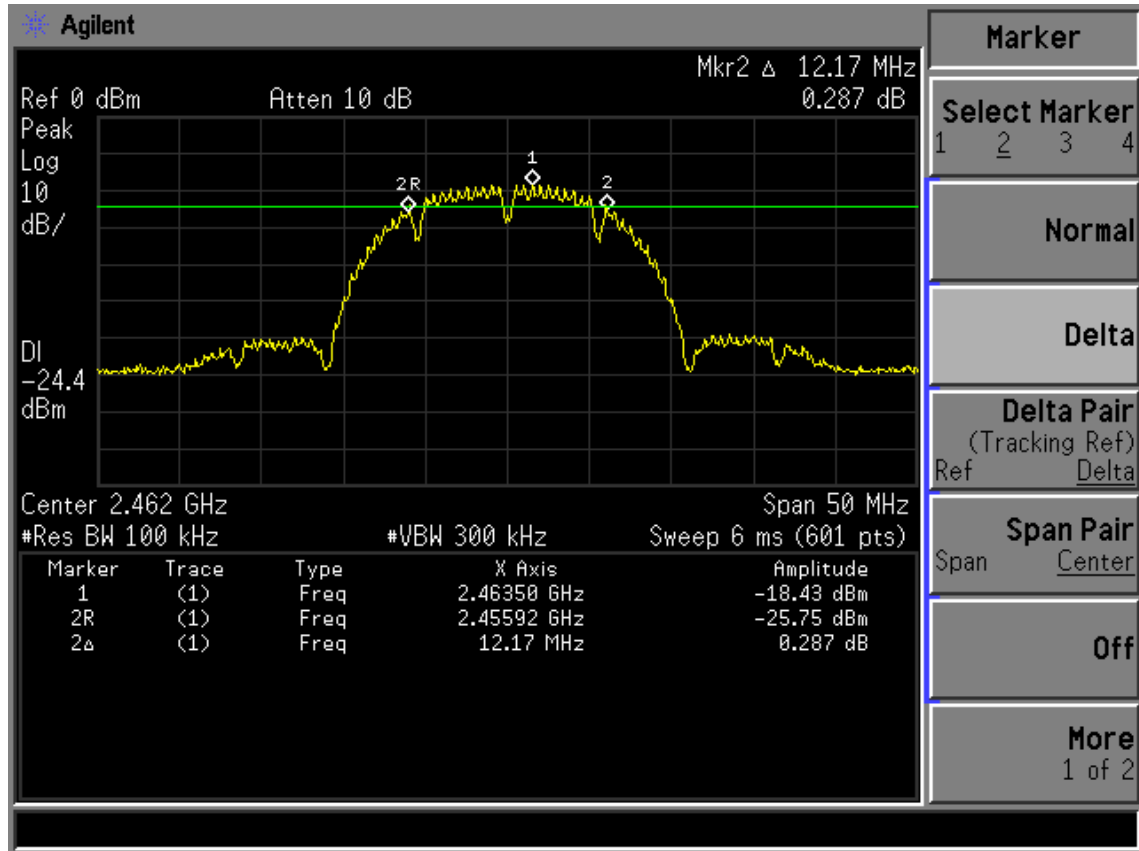
Test CH1: 2412MHz



Test CH6: 2437MHz

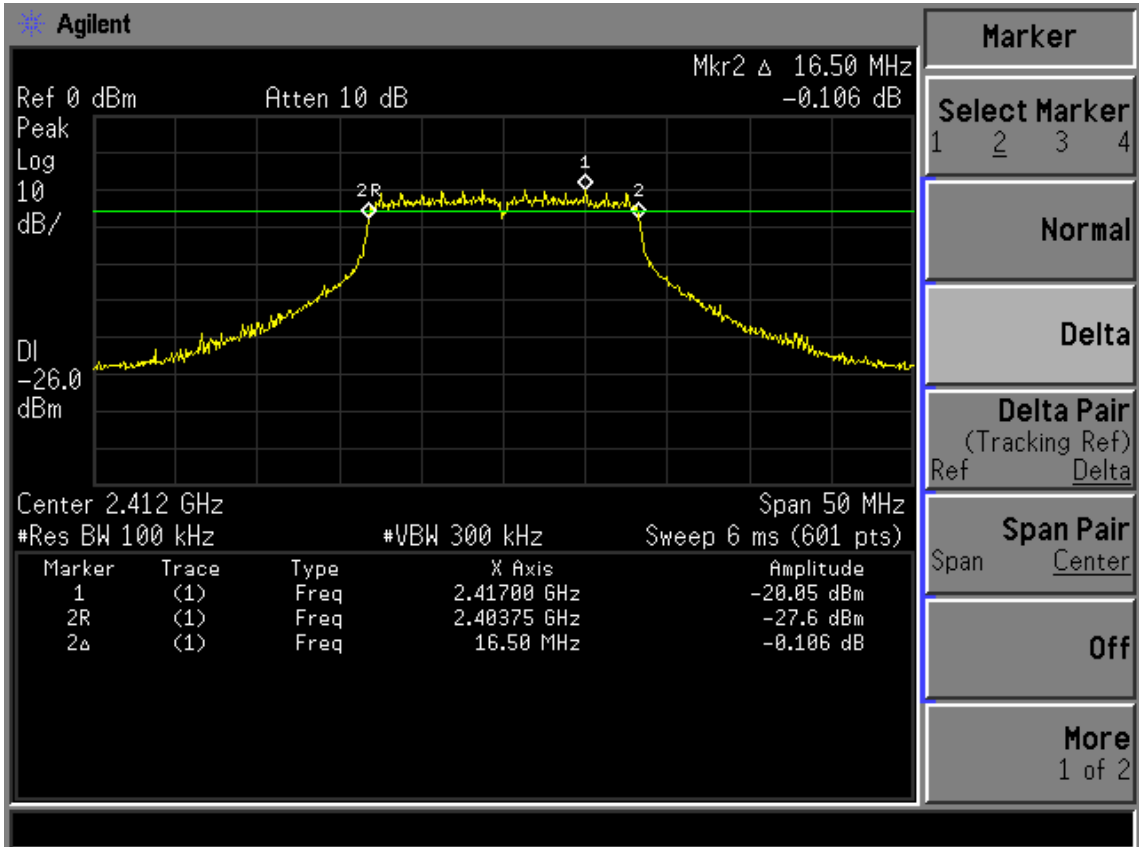


Test CH11: 2462MHz

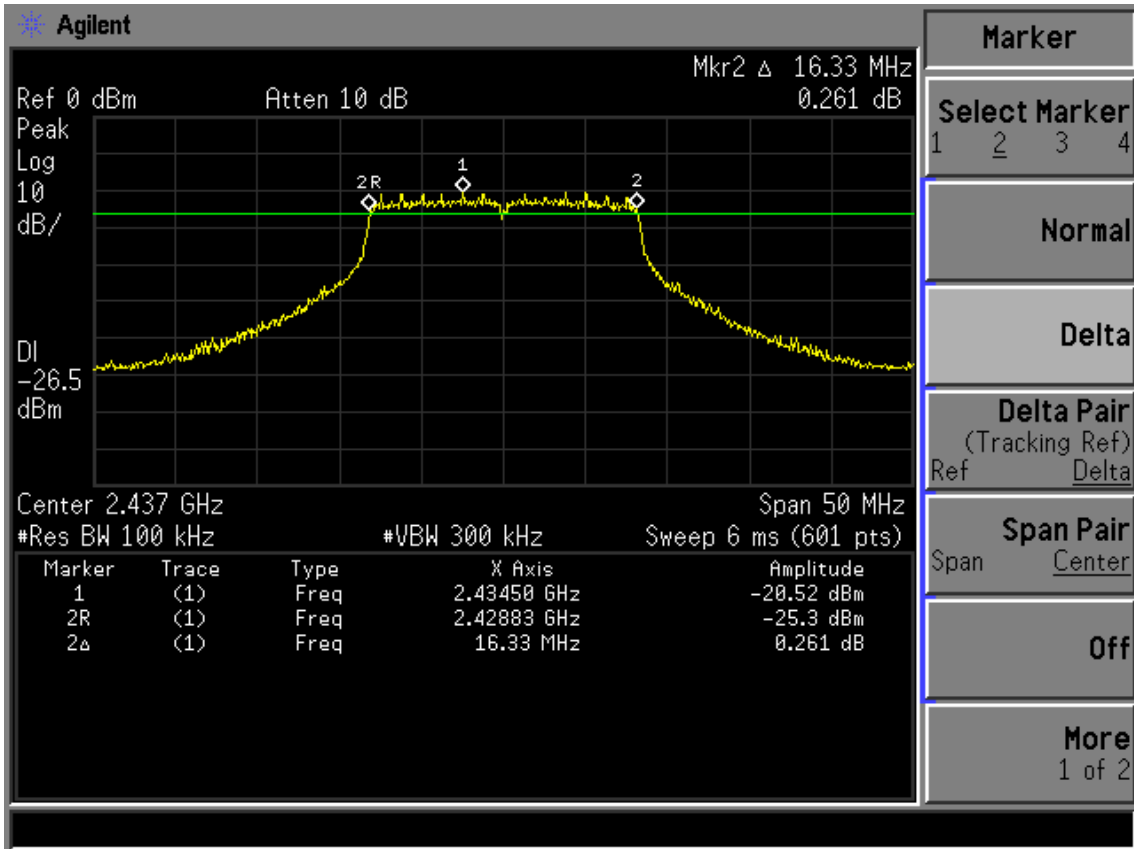


Test Mode: IEEE 802.11g TX

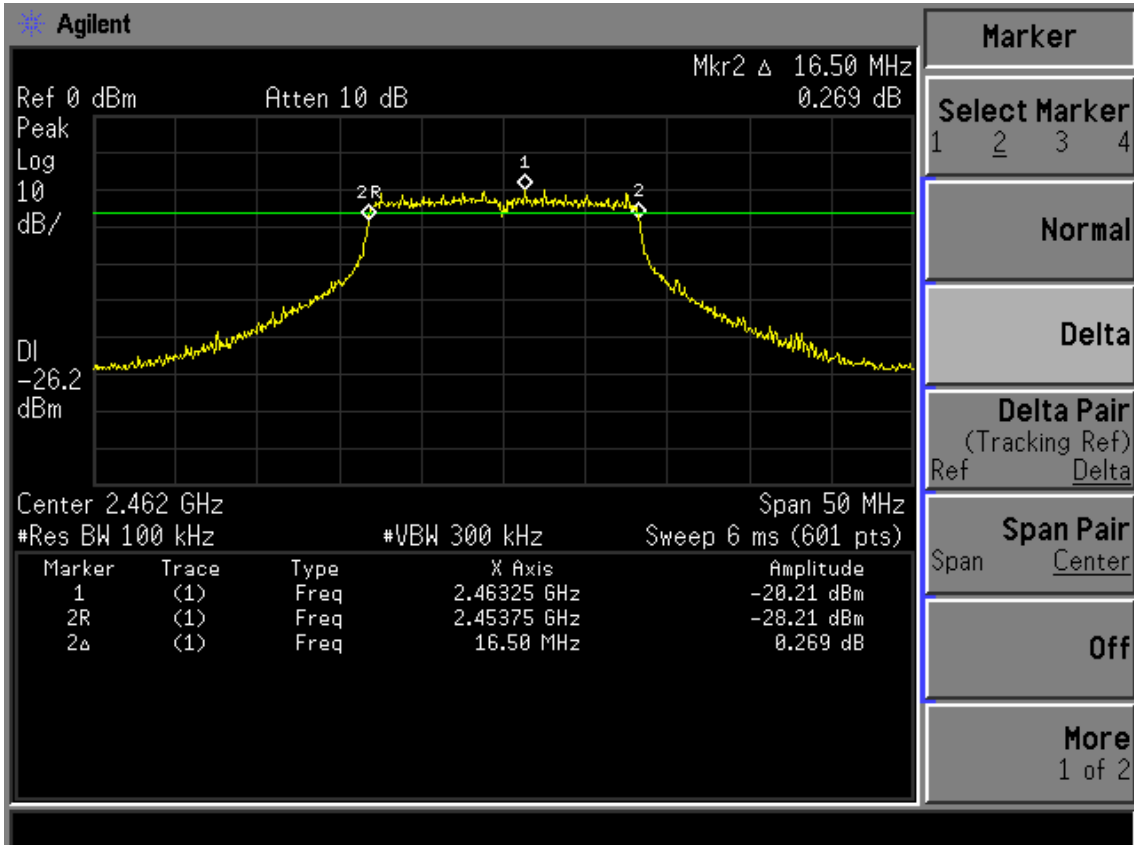
Test CH1: 2412MHz



Test CH6: 2437MHz

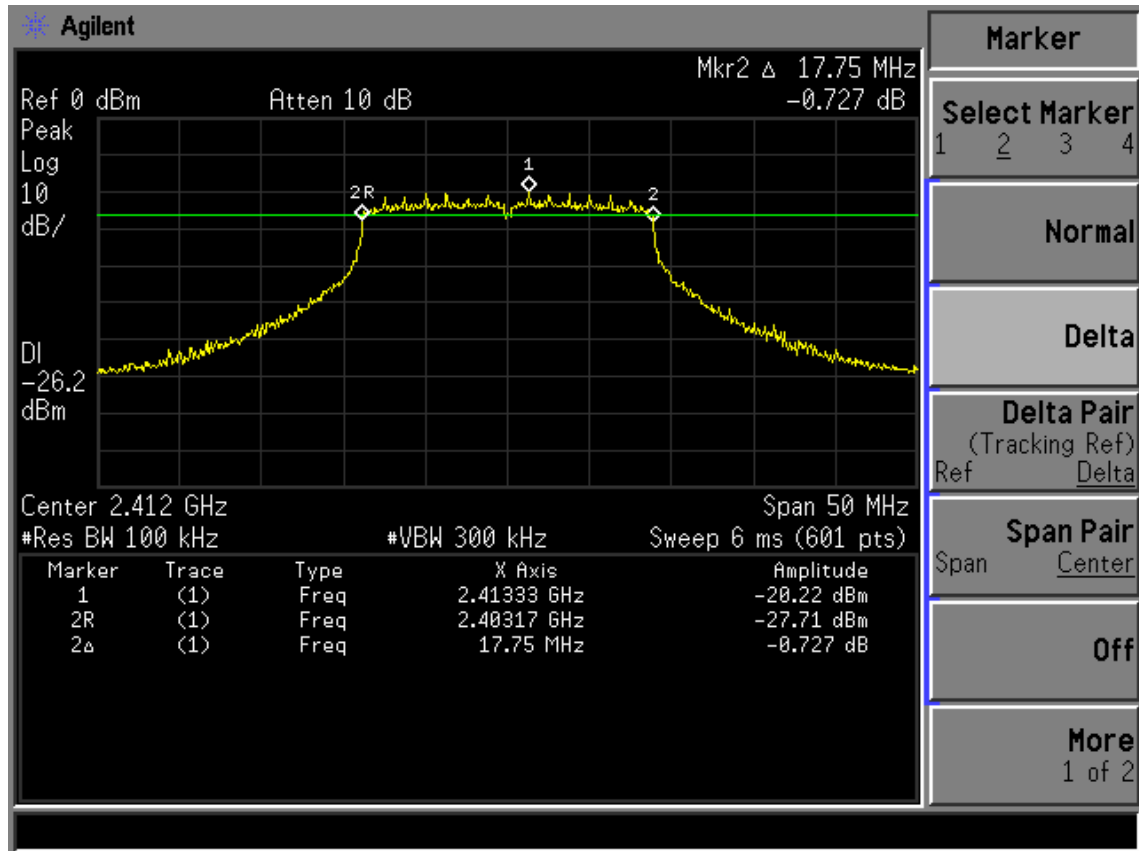


Test CH11: 2462MHz

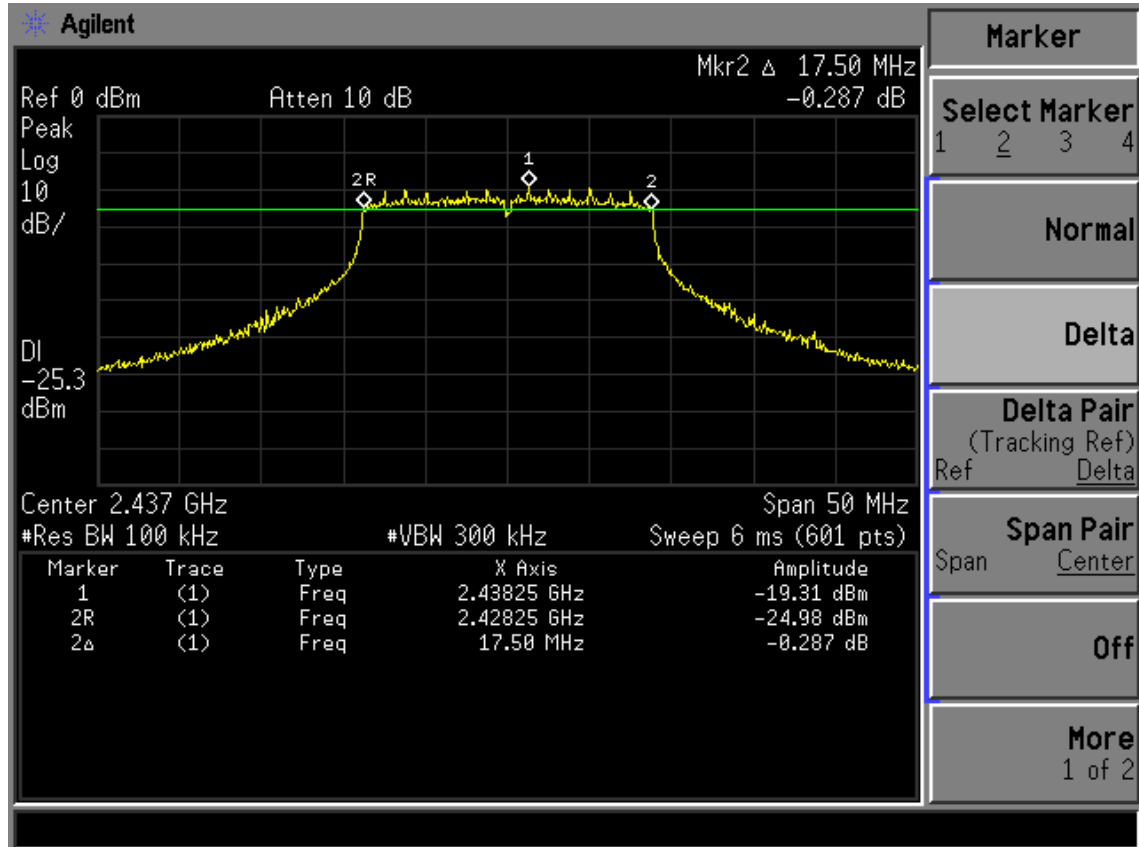


Test Mode: IEEE 802.11n HT20 TX

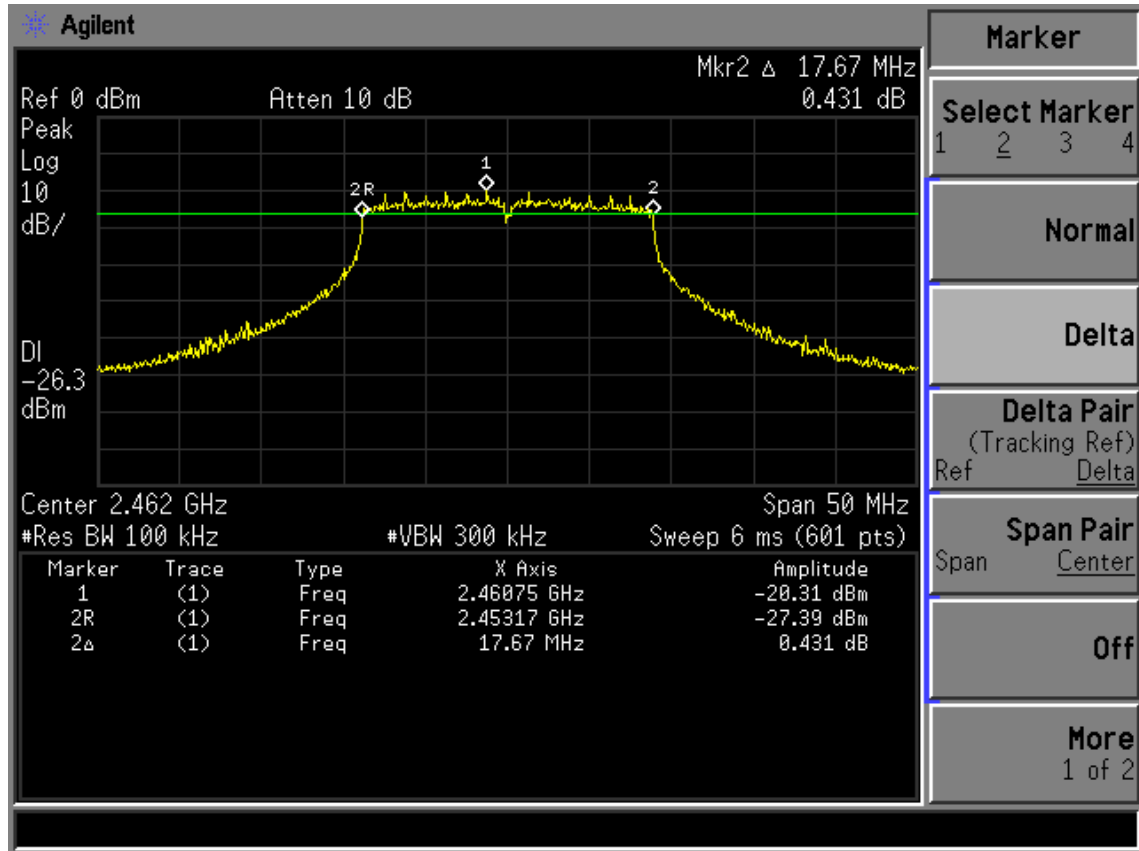
Test CH1: 2412MHz



Test CH6: 2437MHz

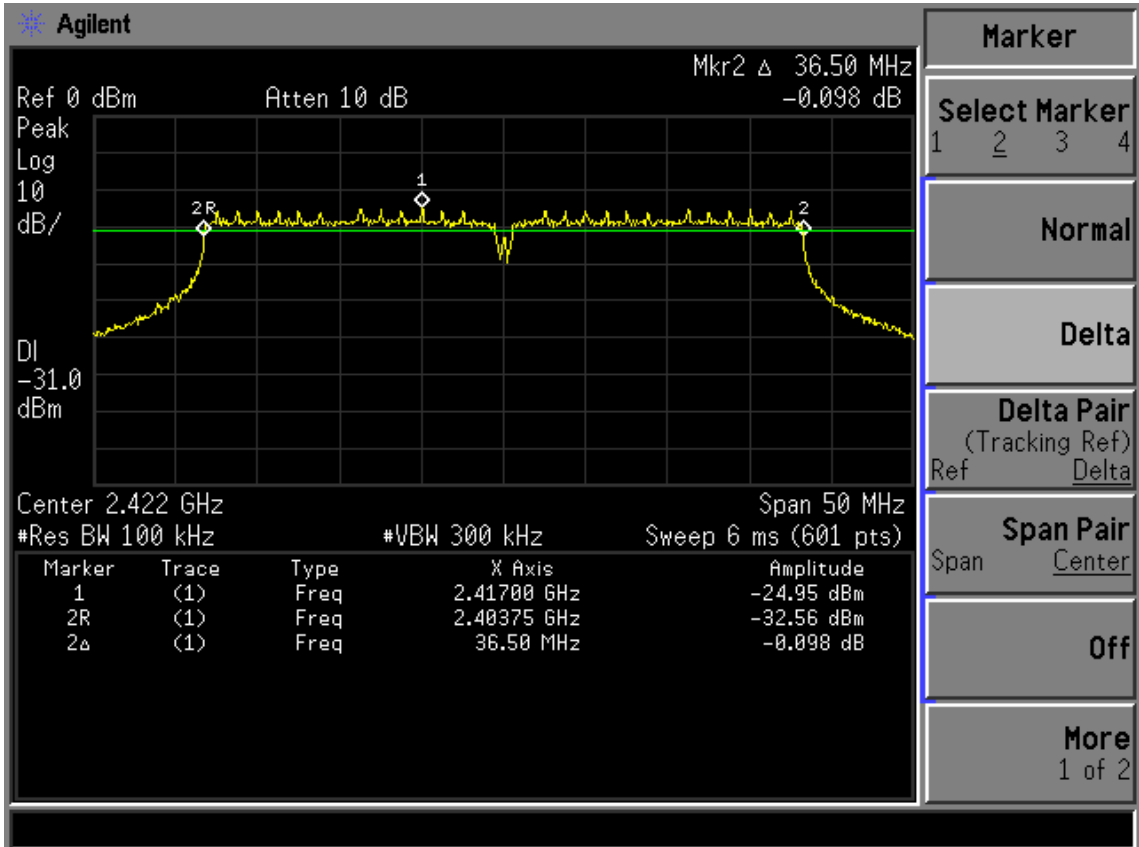


Test CH1: 2462MHz

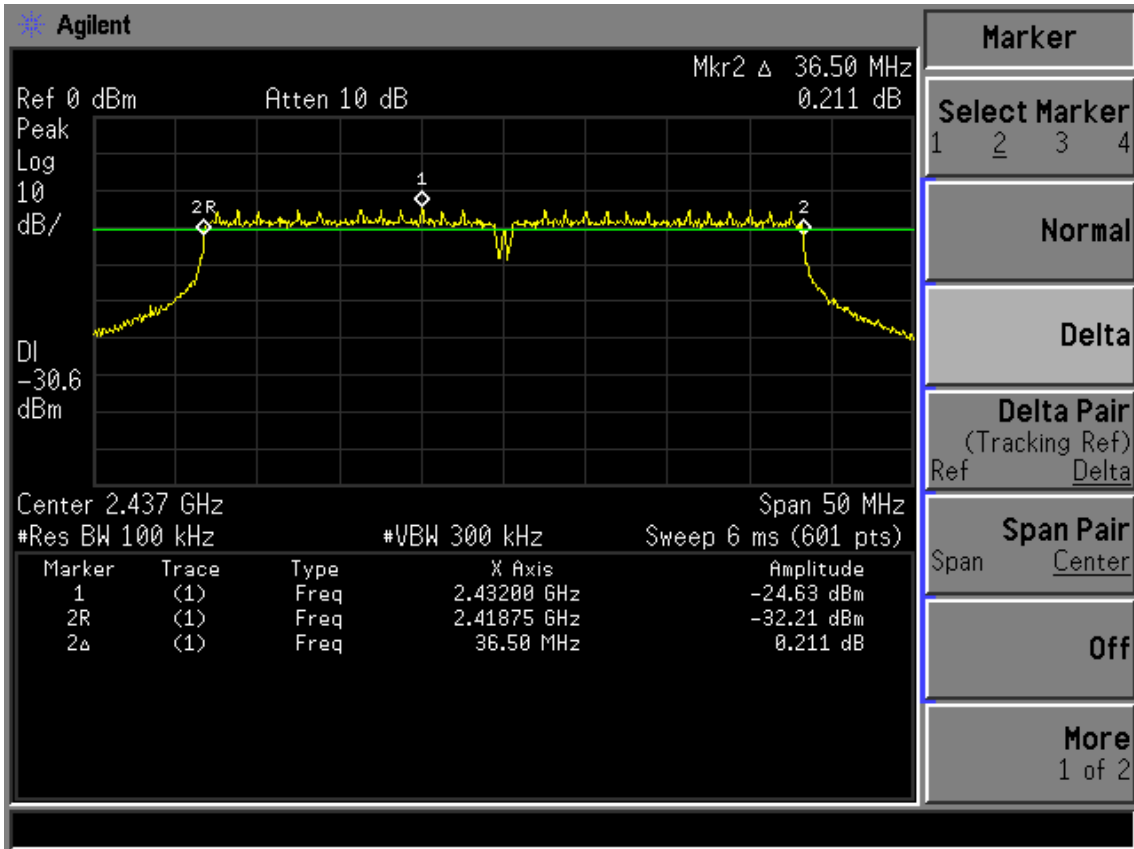


Test Mode: IEEE 802.11n HT40 TX

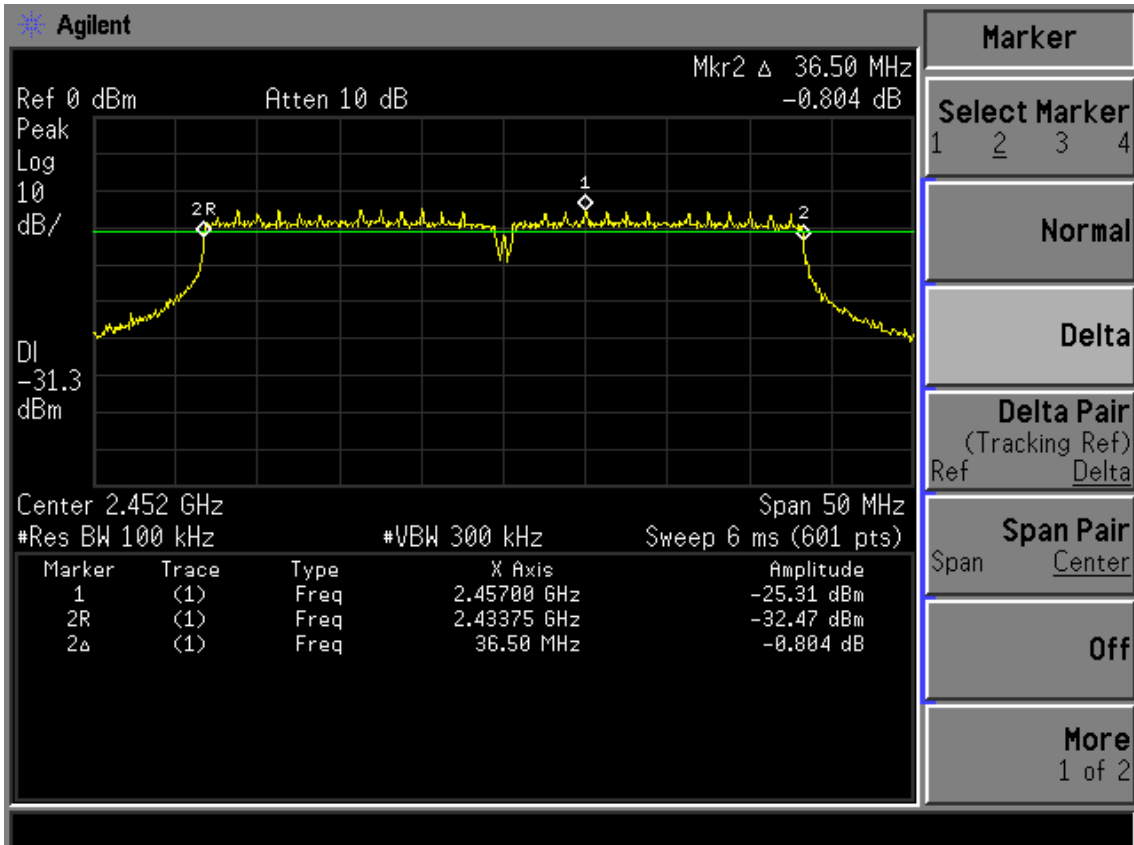
Test CH1: 2422MHz



Test CH4: 2437MHz



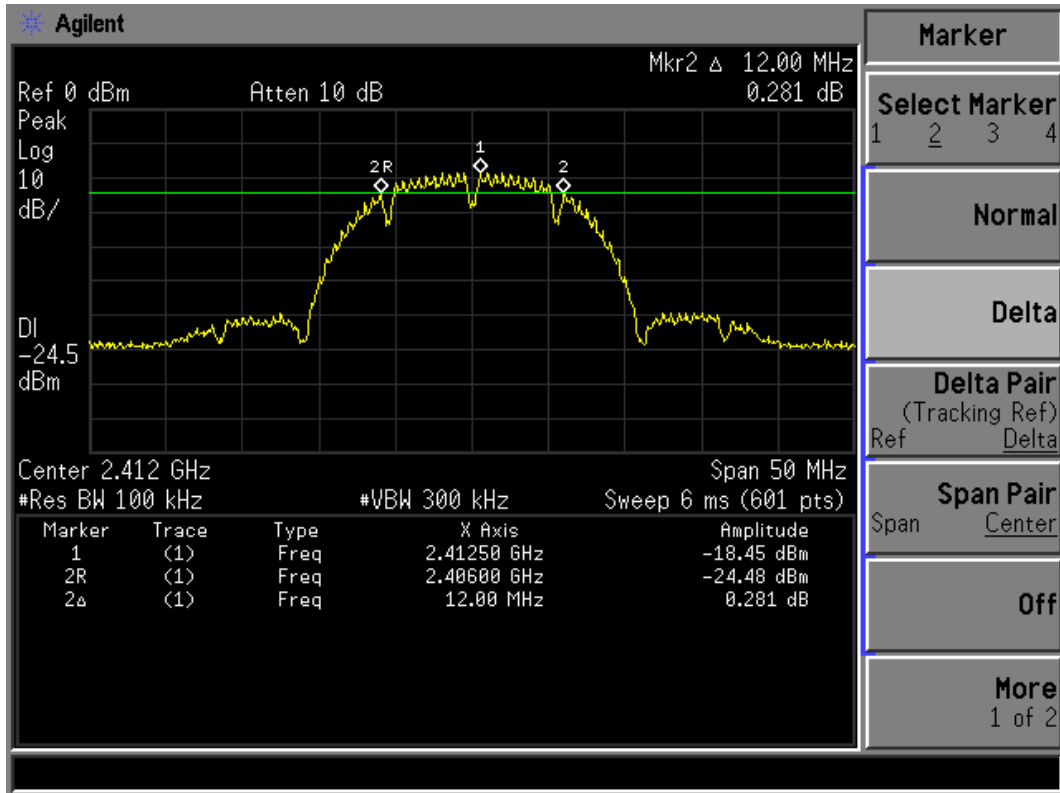
Test CH7: 2452MHz



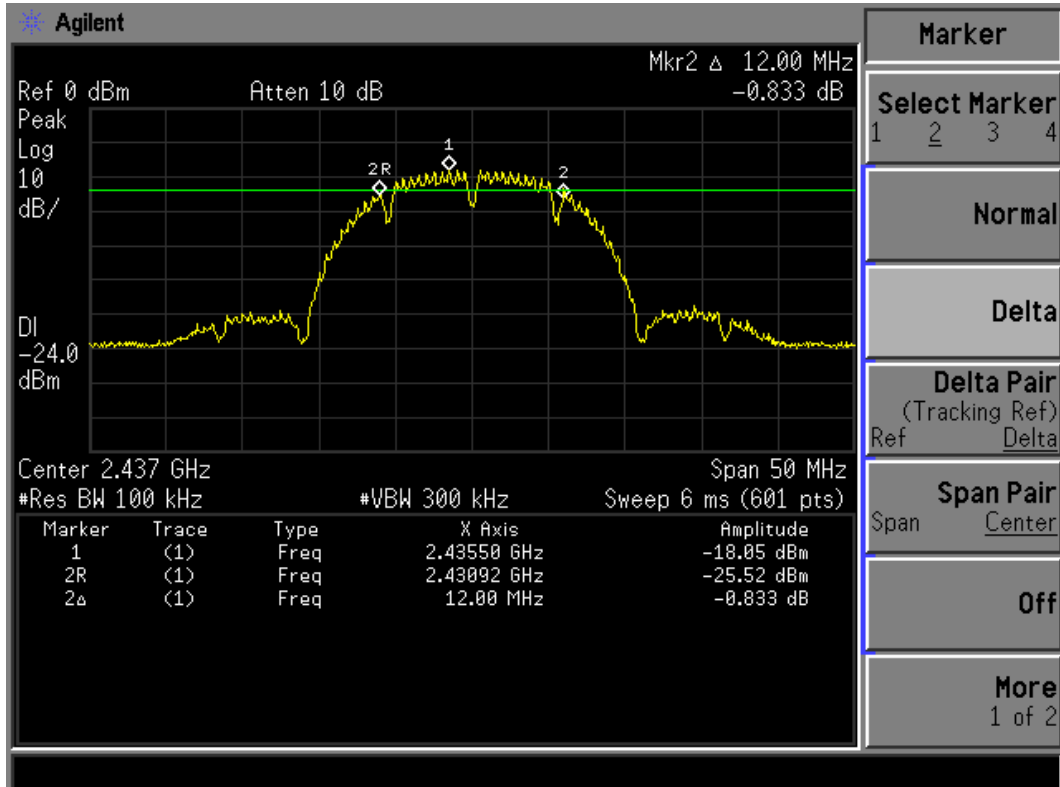
Chain 3:

Test Mode: IEEE 802.11b TX

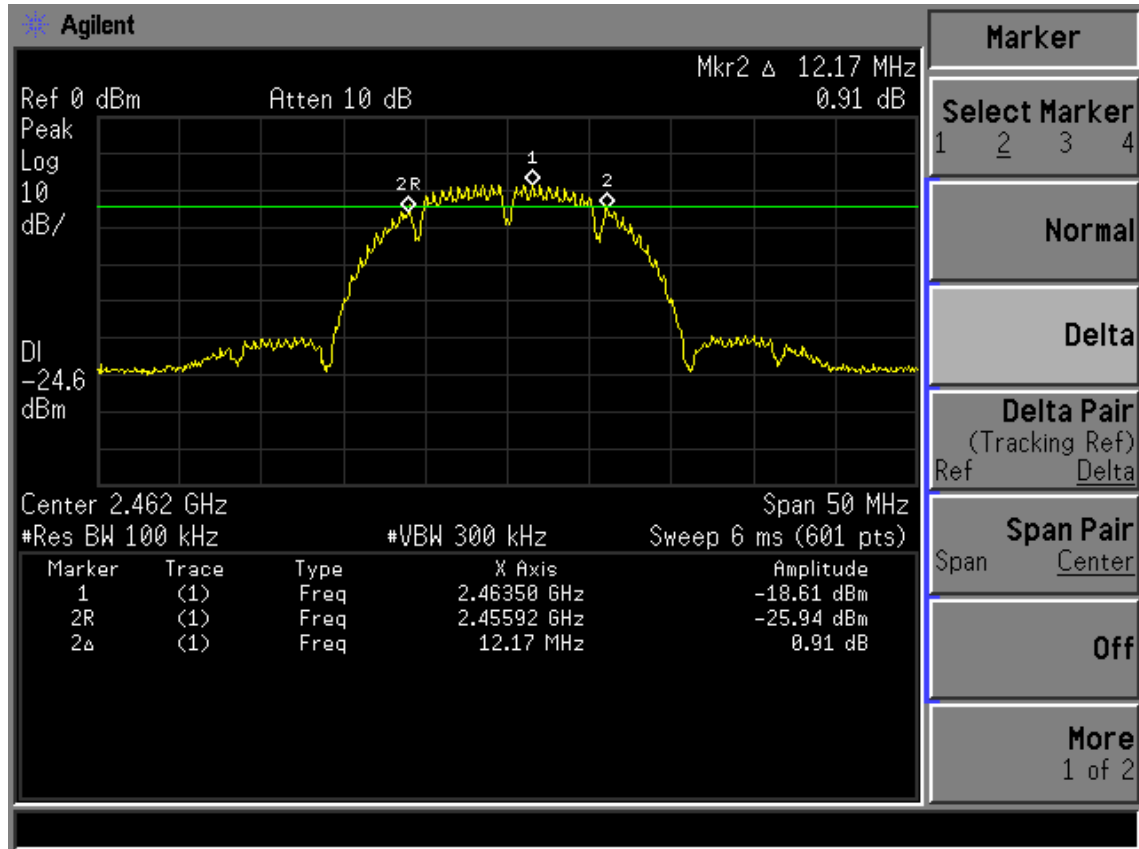
Test CH1: 2412MHz



Test CH6: 2437MHz

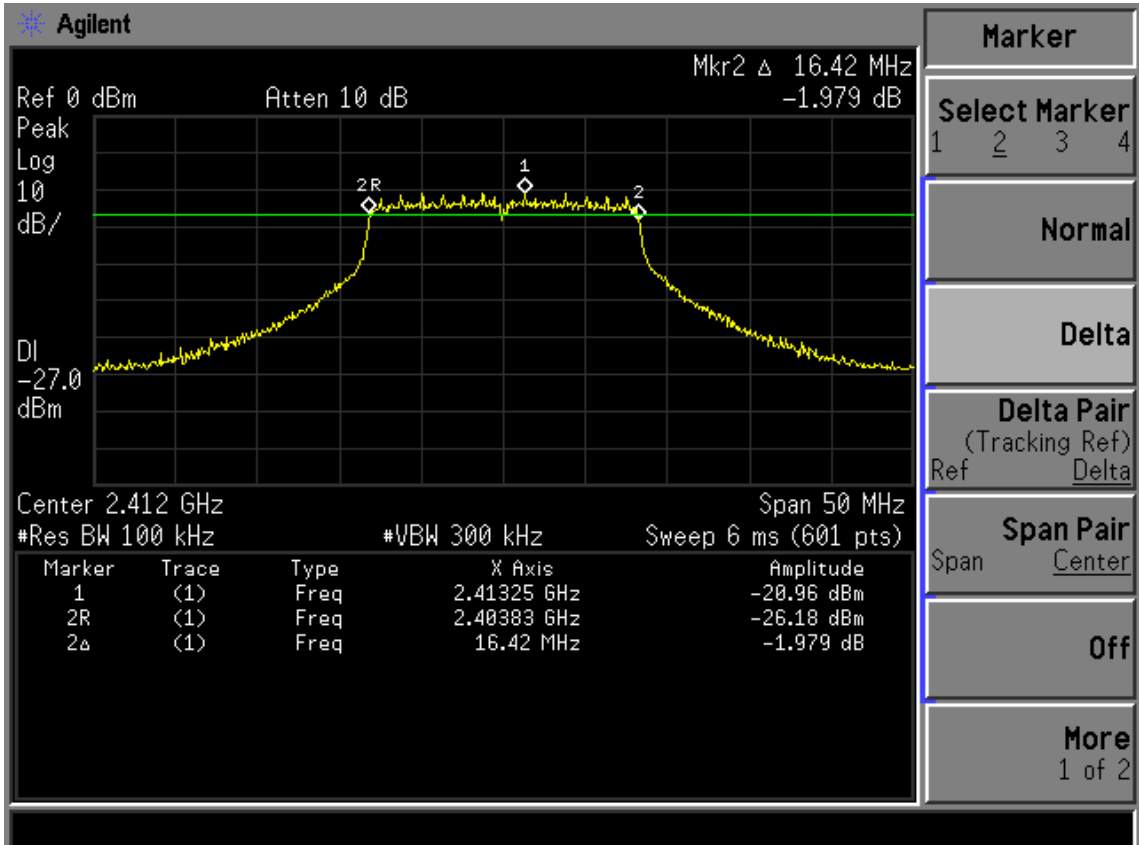


Test CH11: 2462MHz

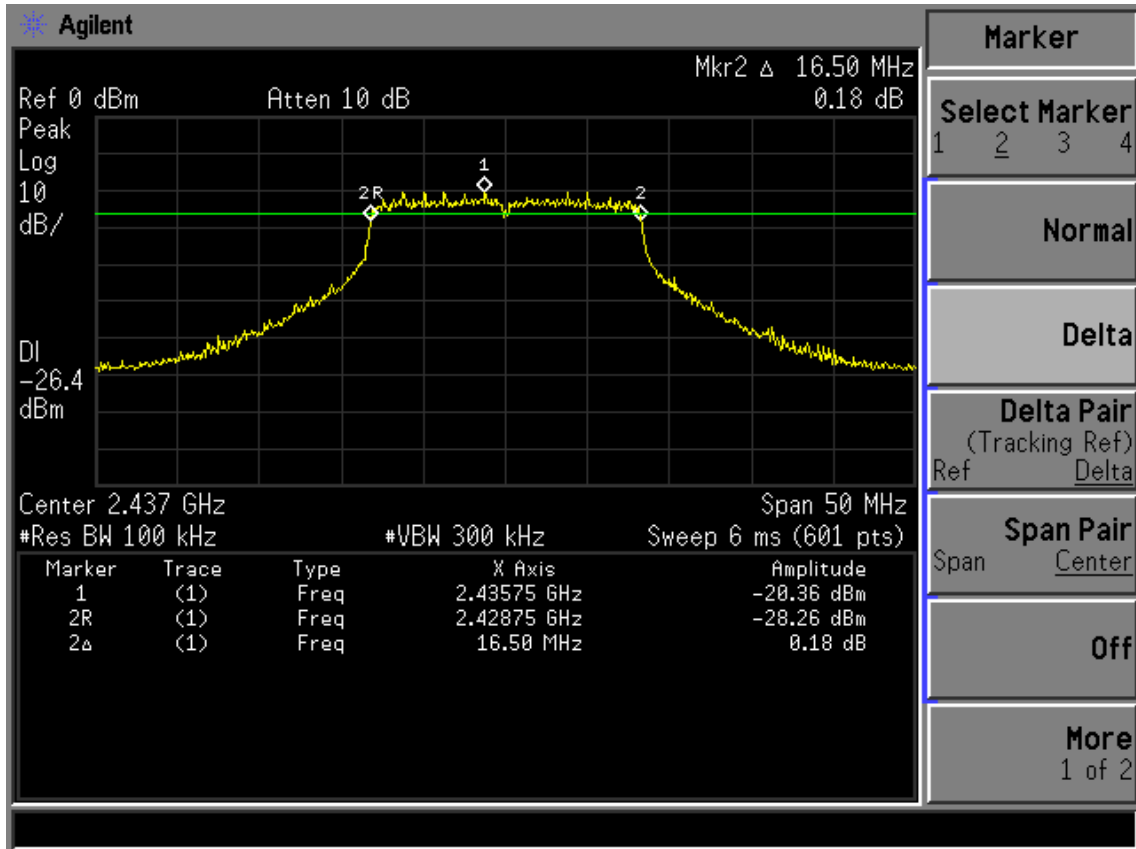


Test Mode: IEEE 802.11g TX

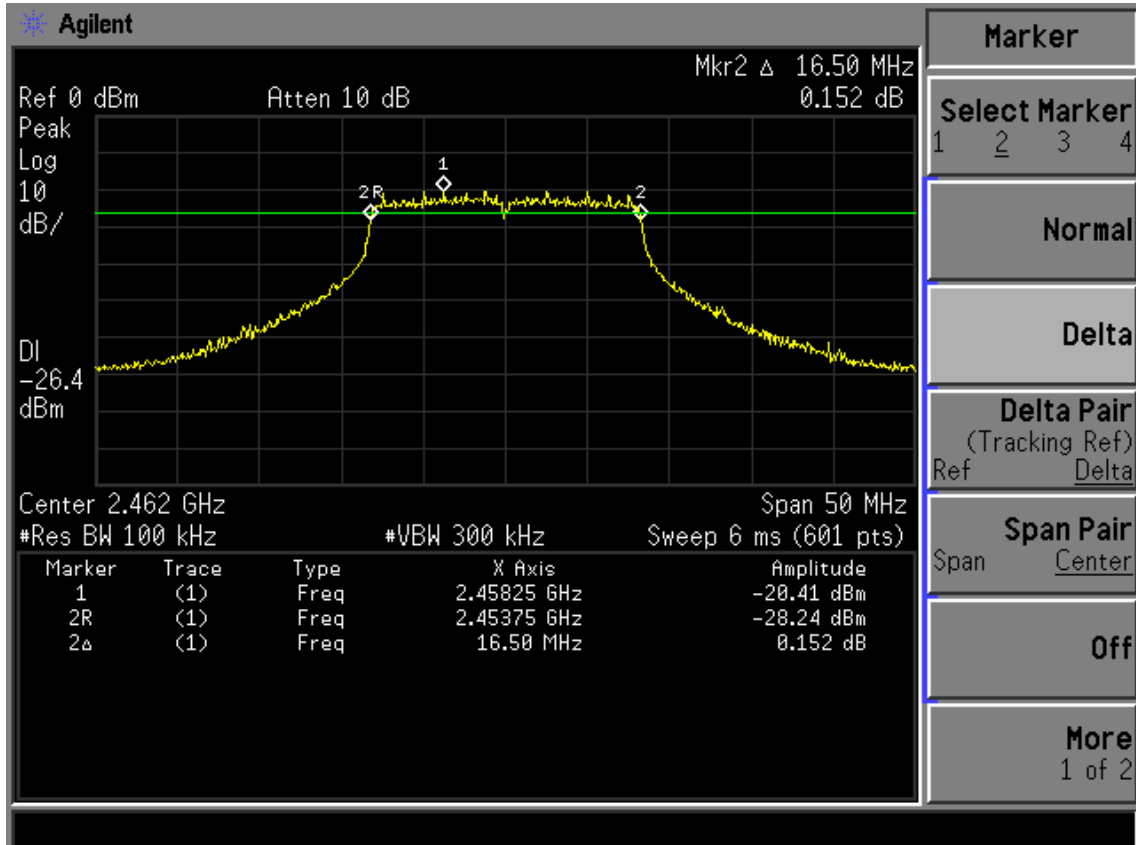
Test CH1: 2412MHz



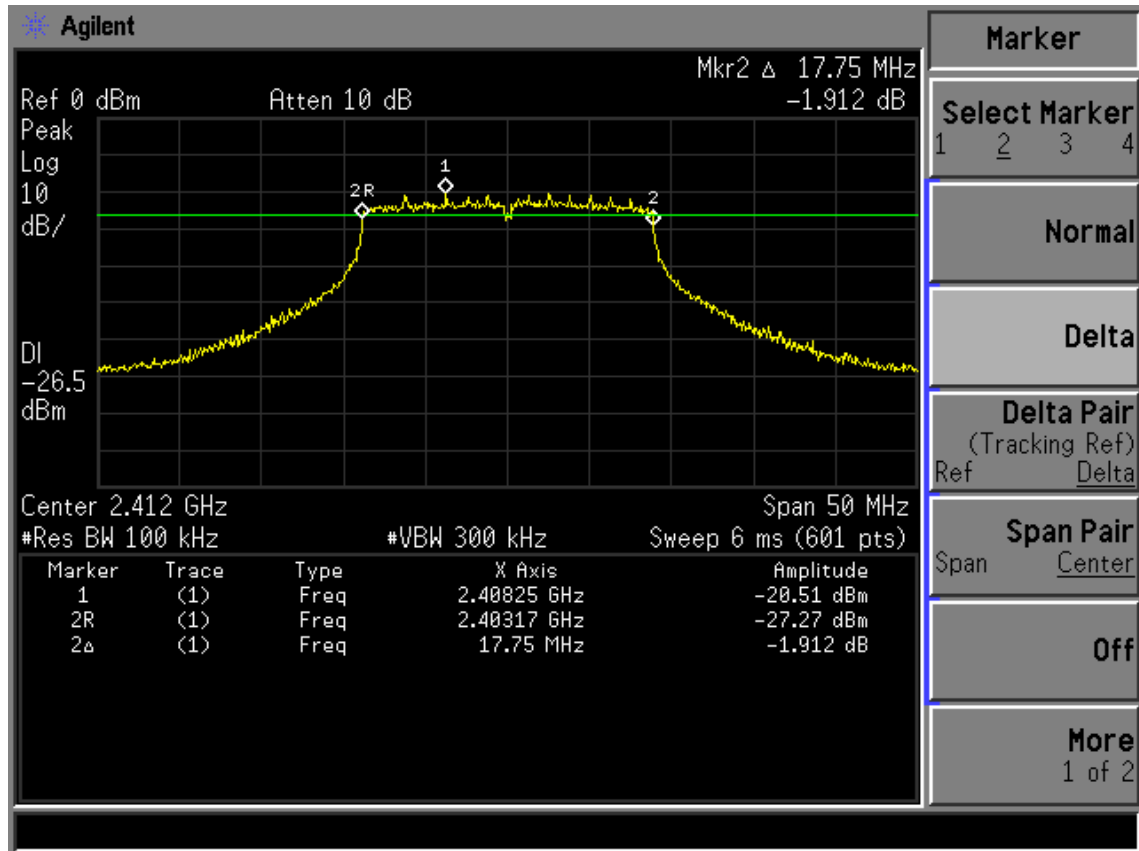
Test CH6: 2437MHz



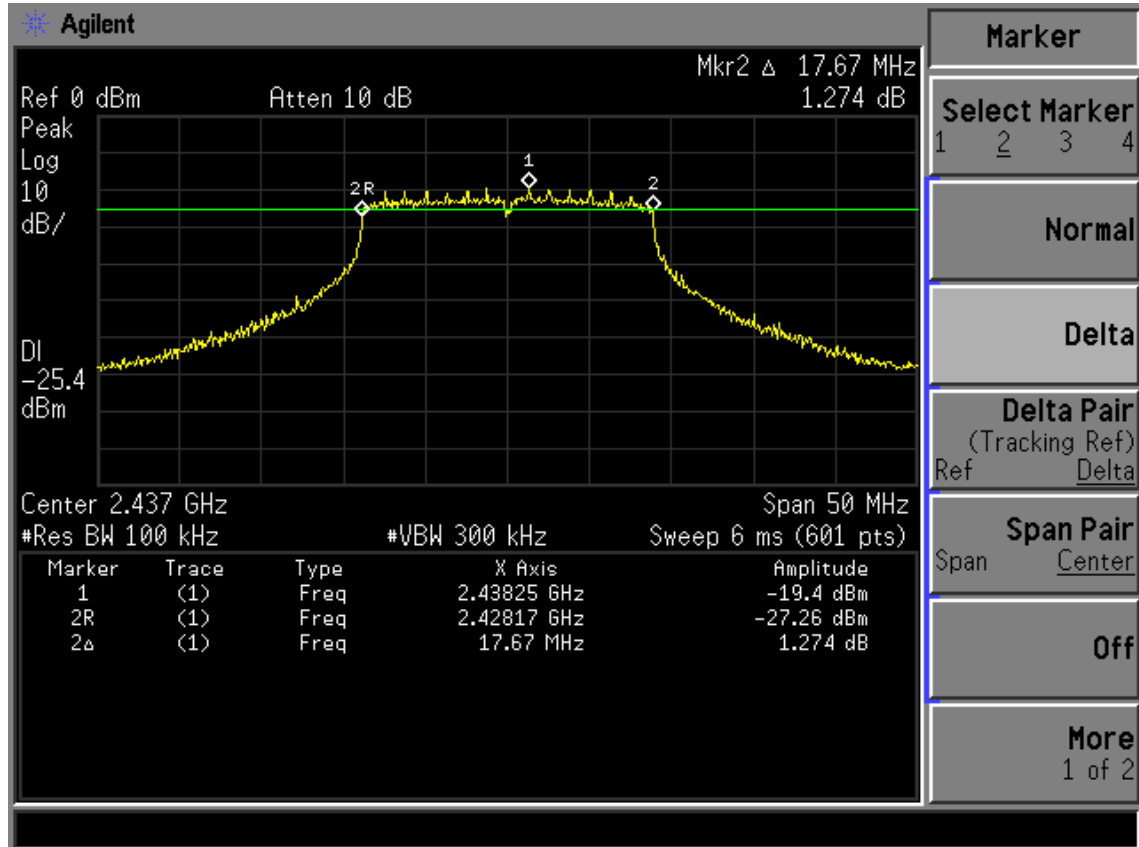
Test CH11: 2462MHz



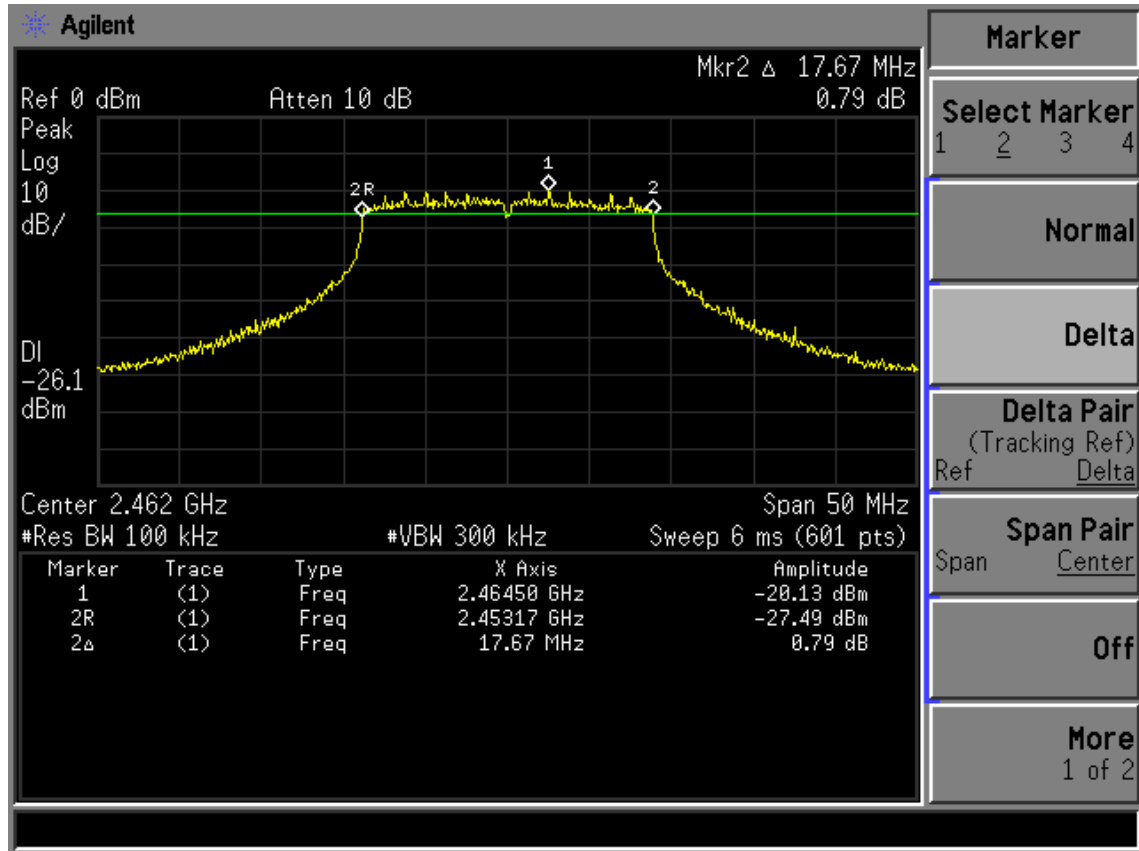
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

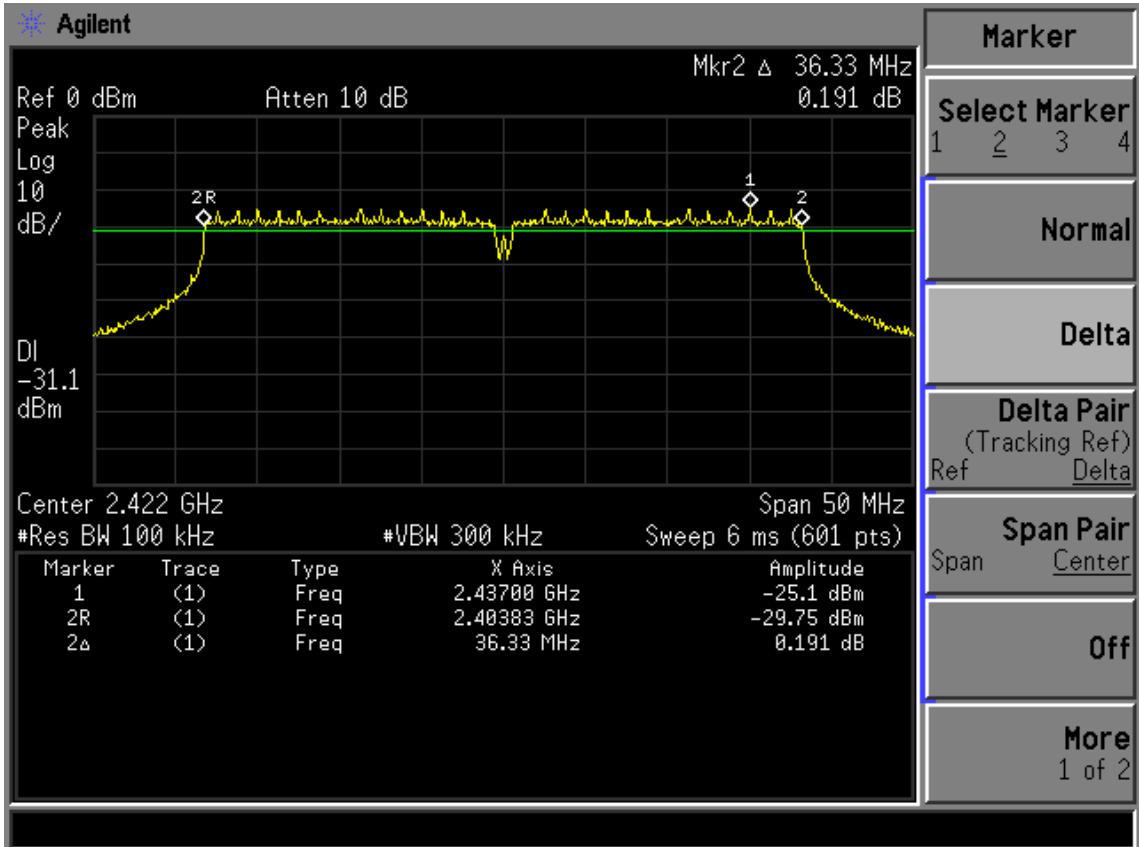


Test CH11: 2462MHz

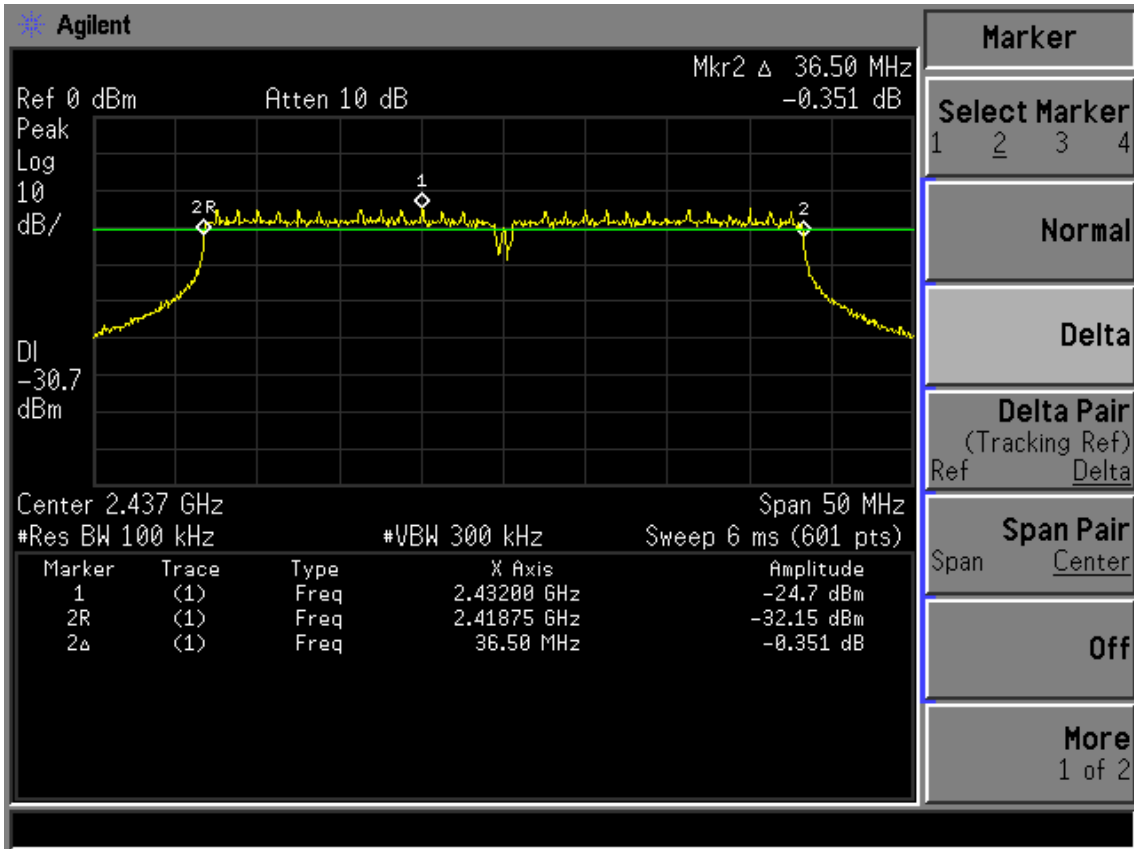


Test Mode: IEEE 802.11n HT40 TX

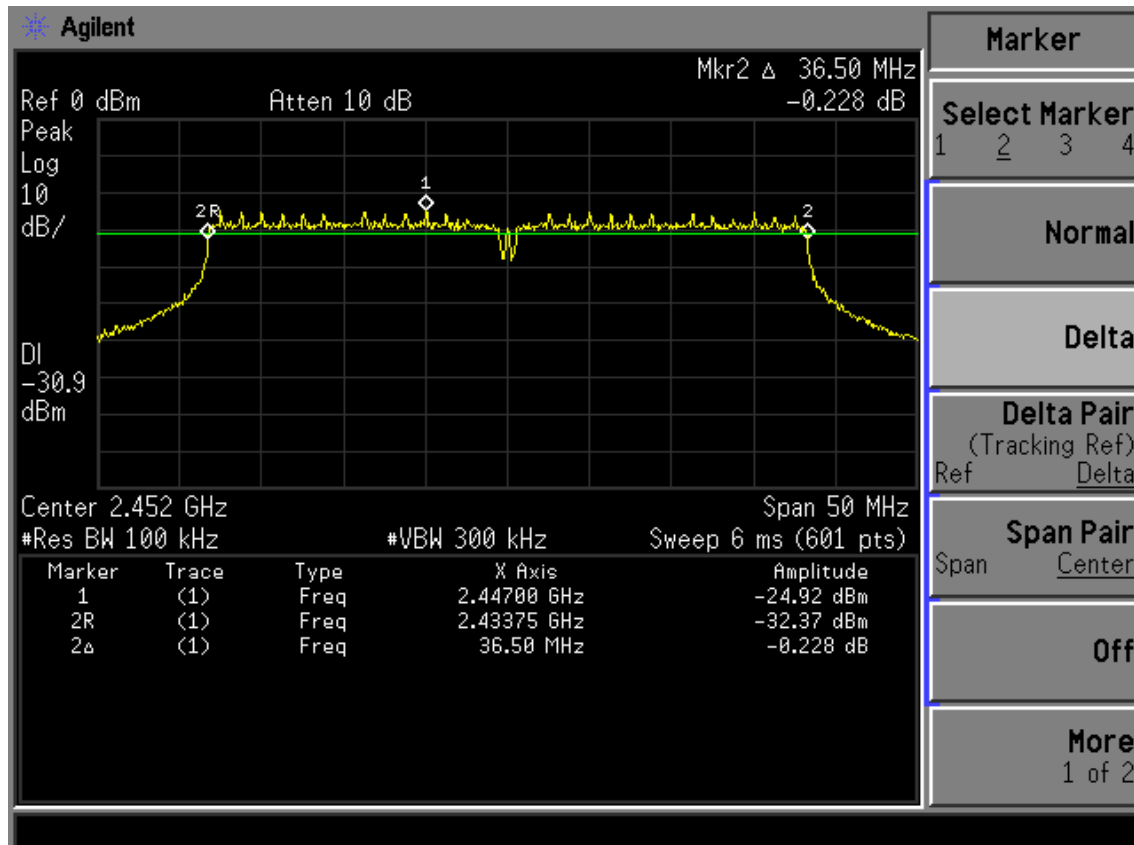
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Power meter	Anritsu	ML2487A	6K00002472	May.08,11	1 Year
2.	Power sensor	Anritsu	MA2491A	0033005	May.08,11	1 Year
3	Attenuator	Agilent	8491B	MY39262165	May.08,11	1 Year
4	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 11	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,11	1 Year

8.2. Limit (FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

8.3. Test Procedure

- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is 20MHz and above 6dB bandwidth of signal to measure out each test modes' PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So Bandwidth correction method according to ANSI C63.10 clause 6.10.2.1 part (c) was used:
 - 1) Set the RBW=3MHz and VBW =8MHz
 - 2) Turn averaging off
 - 3) Set sweep to automatic
 - 4) Set the span just large enough to capture the emission
 - 5) Use a peak detector on max hold
 - 6) Record the measured power
 - 7) Calculate Output power of EUT use the formula:

Peak output power =measured power+ 10log[(6dB bandwidth of emission)/(analyzer RBW)]

- 4, For IEEE802.11n mode, it's MIMO technology, so account total PK output power by add each chain's PK output power.

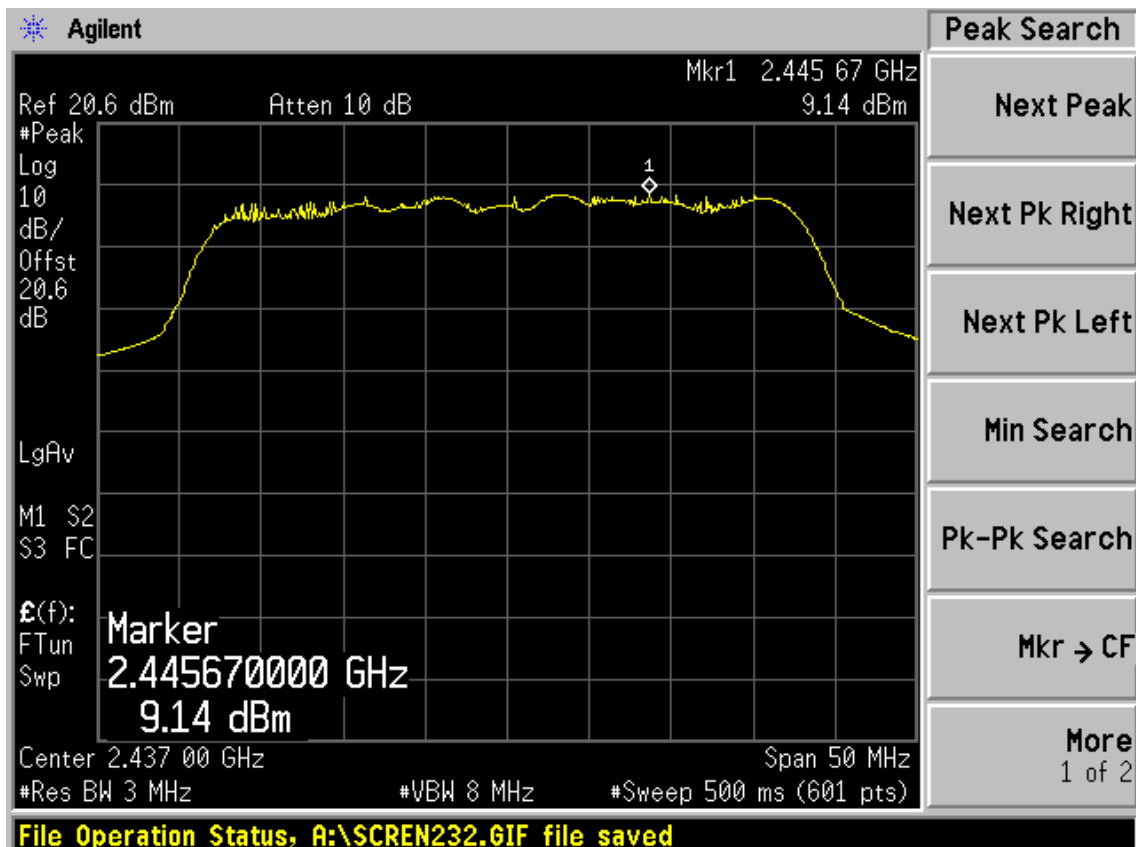
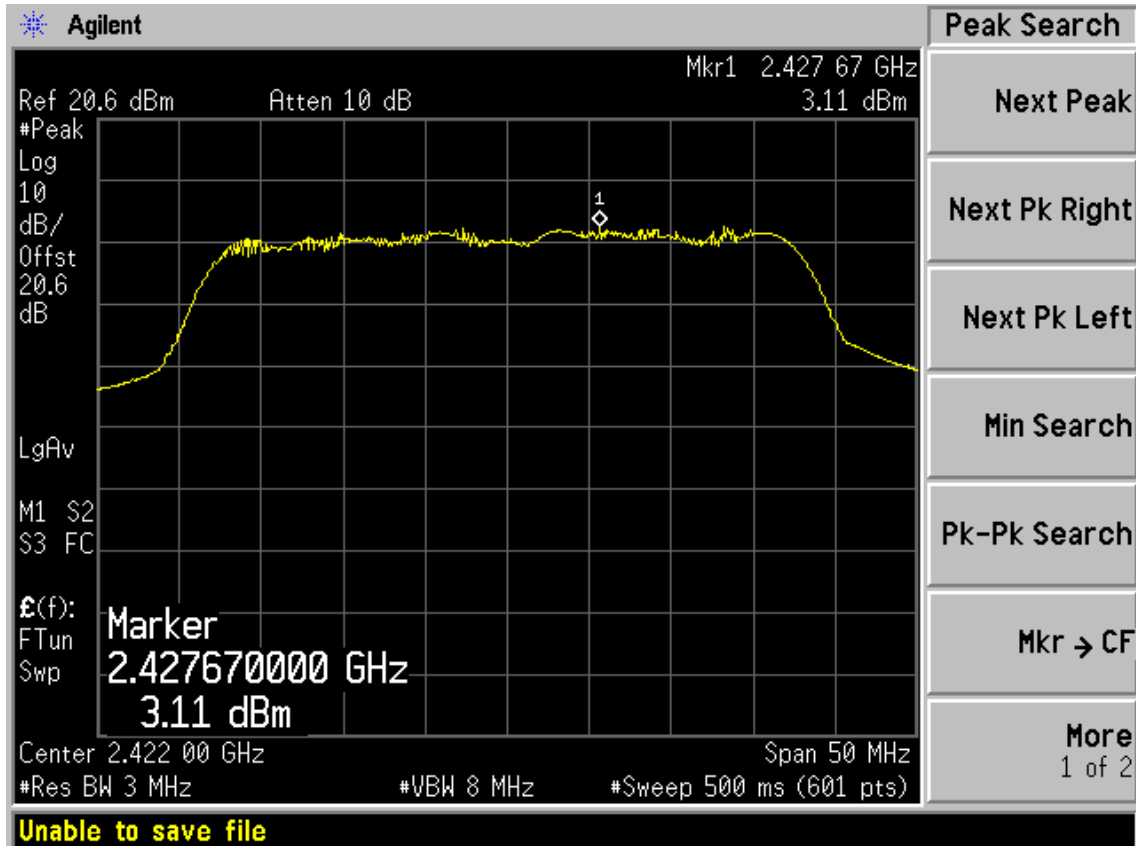
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

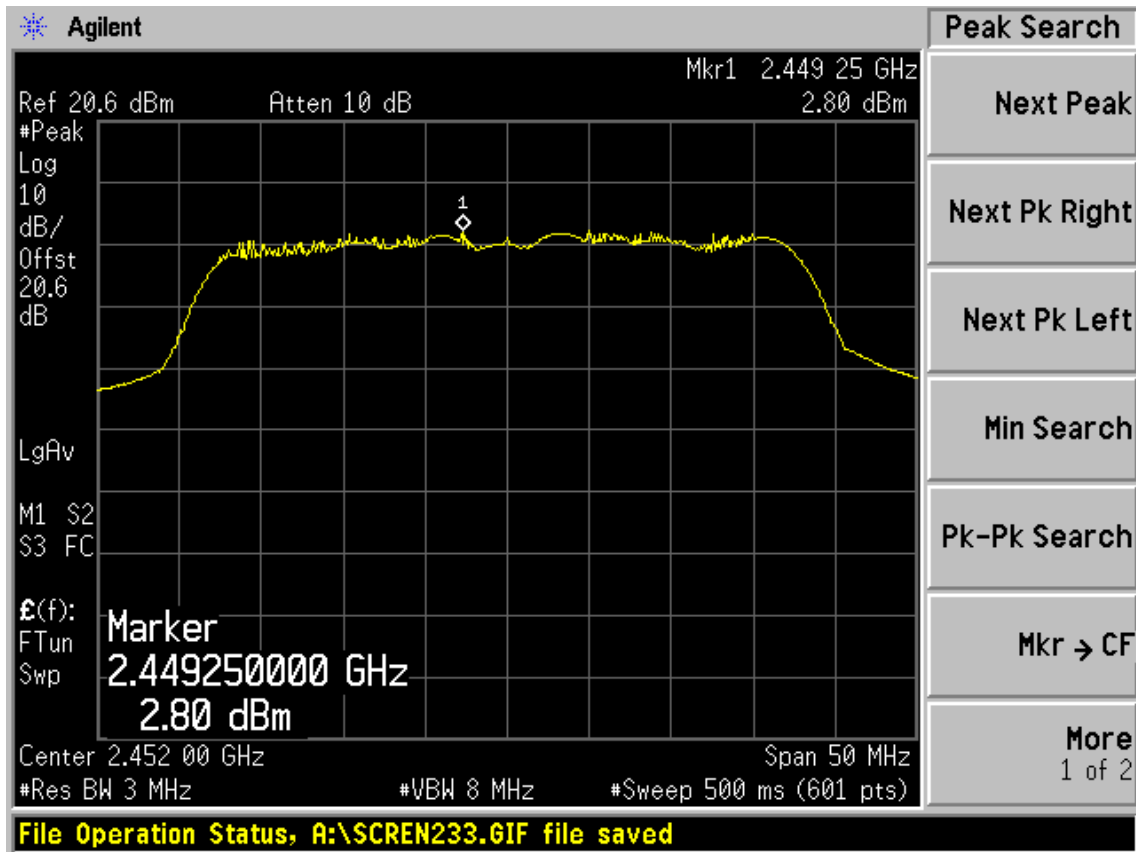
8.4. Test Results

EUT: 802.11n Wireless 4-port Gigabit Broadband Router						
M/N: SMCWGBR14-N2						
Test date: 2011-07-18		Pressure: 101.8 kpa			Humidity: 57 %	
Tested by: Leo-Li		Test site: RF site			Temperature: 25 °C	
Cable loss: 0.6 dB		Attenuator loss: 20 dB			Antenna Gain: 3 dBi	
Test Mode	CH (MHz)	Peak output Power (dBm)				Limit (dBm)
		Chain0	Chain1	Chain2	Total	
11b	CH1	17.43	16.12	16.18	N/A	30
	CH6	18.32	17.19	18.21	N/A	30
	CH11	17.67	16.36	16.99	N/A	30
11g	CH1	20.43	19.88	19.82	N/A	30
	CH6	22.49	21.44	22.17	N/A	30
	CH11	20.65	20.17	20.96	N/A	30
11n HT20	CH1	20.33	19.93	20.47	25.02	30
	CH6	22.48	21.45	22.28	26.86	30
	CH11	20.57	20.23	20.98	25.38	30

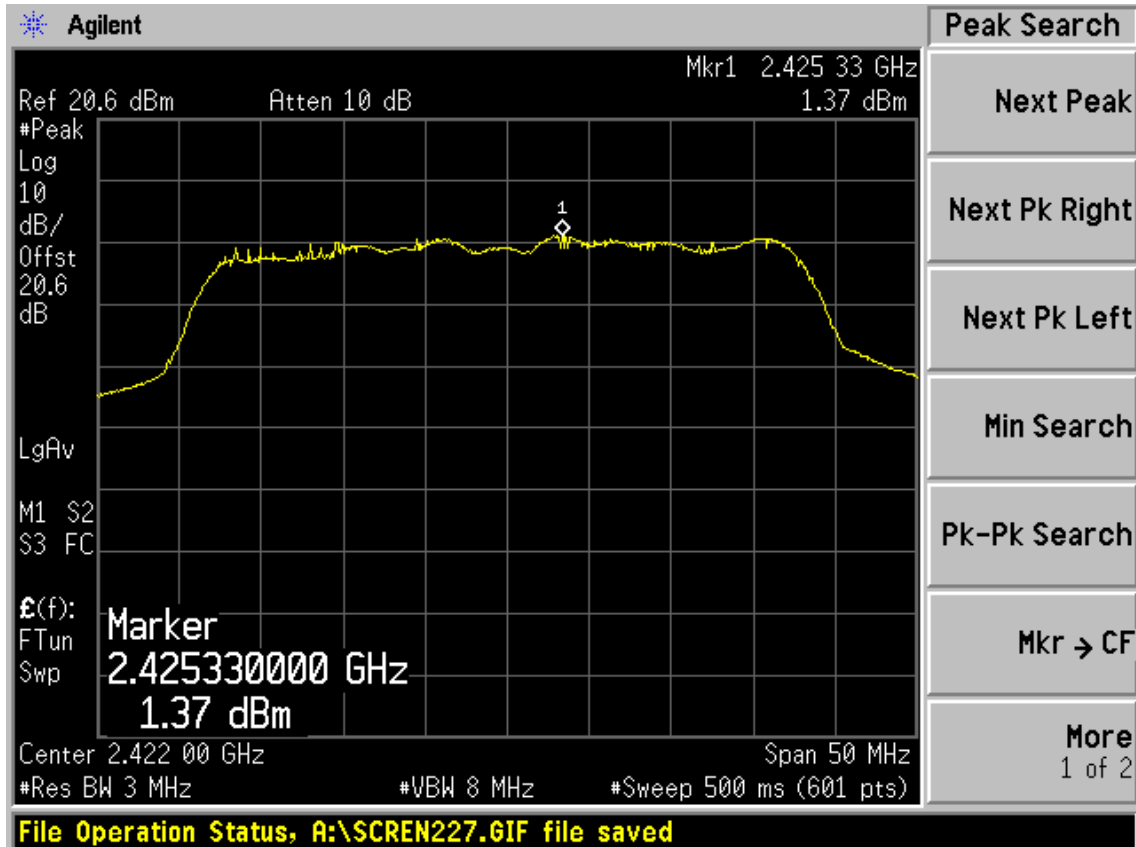
Test Mode	CH	Result							Limit (dBm)
		Measured power(dBm)/3MHz			PK Output power (dBm)				
		Chain0	Chain 1	Chain 2	Chain0	Chain1	Chain2	Total	
11n HT40	CH1	3.11	1.37	1.89	13.96	12.22	12.74	17.81	30
	CH4	9.14	7.22	8.14	19.99	18.07	18.99	23.86	30
	CH7	2.80	1.37	1.69	13.65	12.22	12.54	17.62	30
Chain 0 6dB Bandwidth for 11n HT40: 36.50MHz									
Chain 1 6dB Bandwidth for 11n HT40: 36.50MHz									
Chain 2 6dB Bandwidth for 11n HT40: 36.50MHz									
Chain 0 BW correction factor = $10\log[(36.50\text{MHz})/(3\text{MHz})] = 10.85\text{dB}$									
Chain 1 BW correction factor = $10\log[(36.50\text{MHz})/(3\text{MHz})] = 10.85\text{dB}$									
Chain 2 BW correction factor = $10\log[(36.50\text{MHz})/(3\text{MHz})] = 10.85\text{dB}$									
Conclusion: PASS									

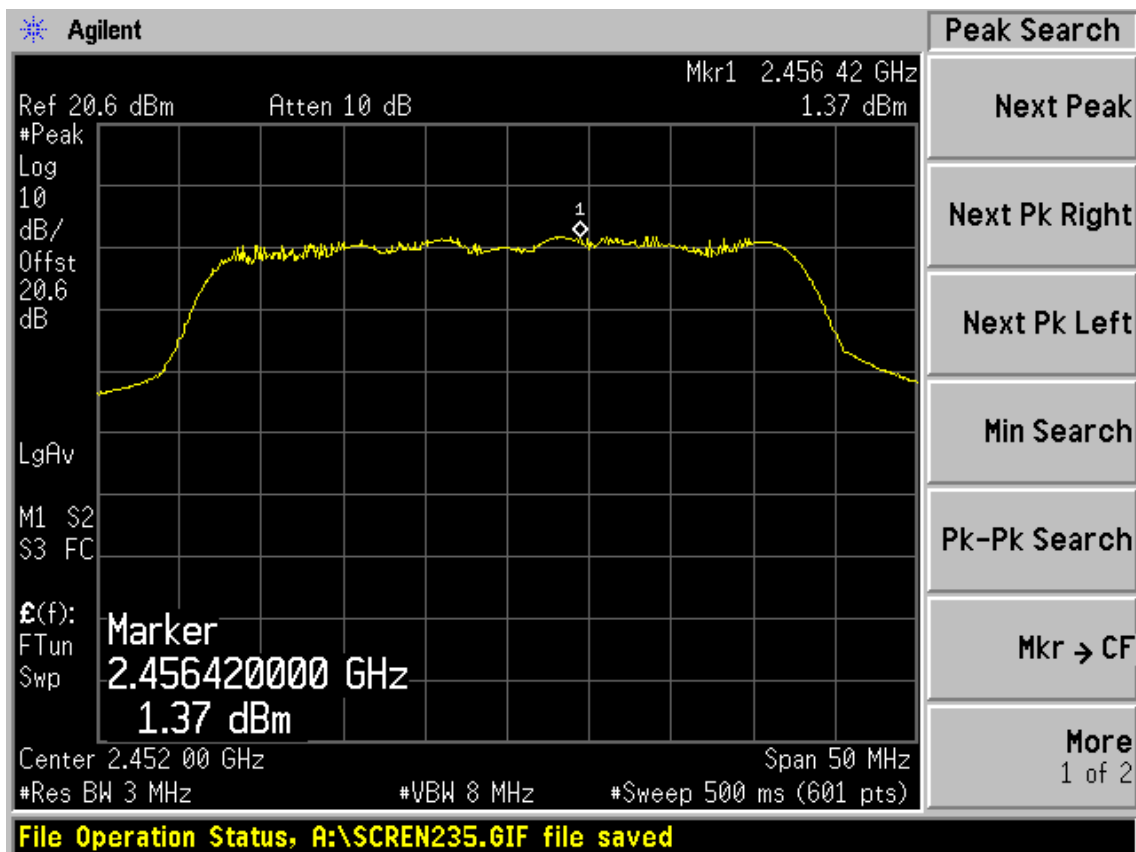
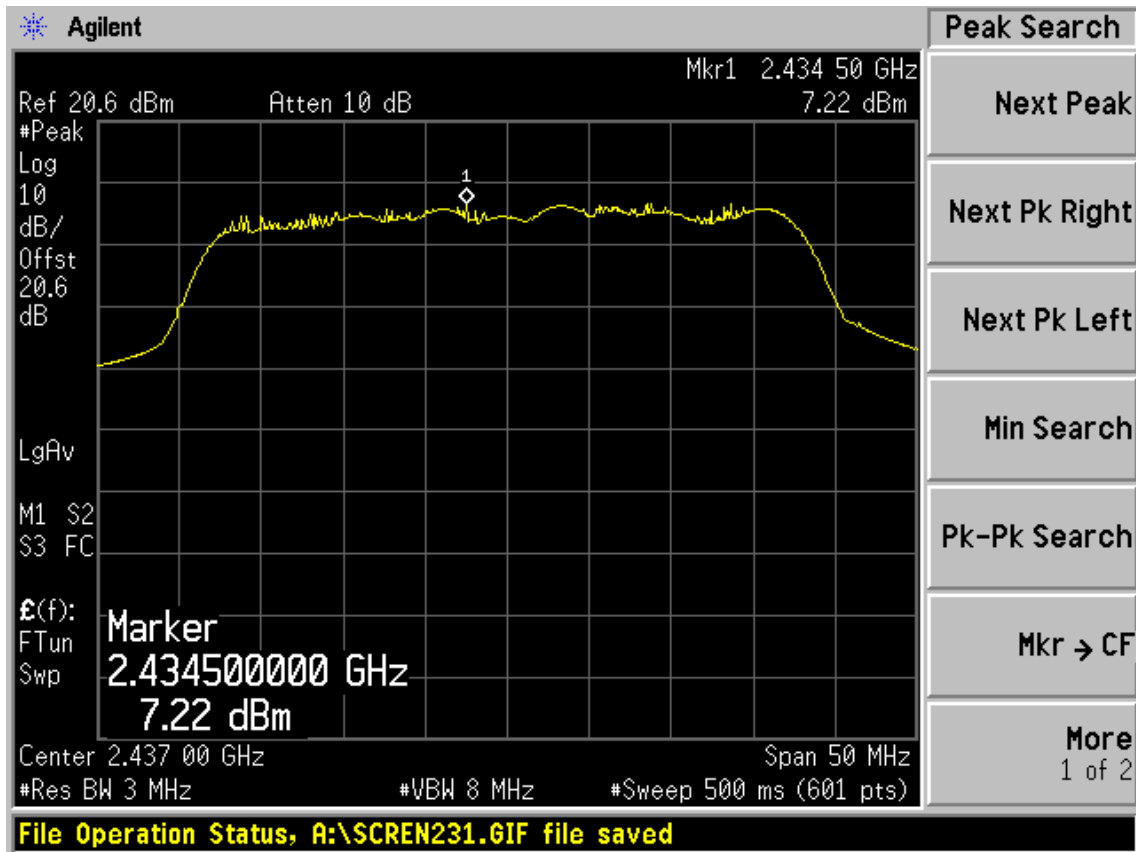
Chain 0



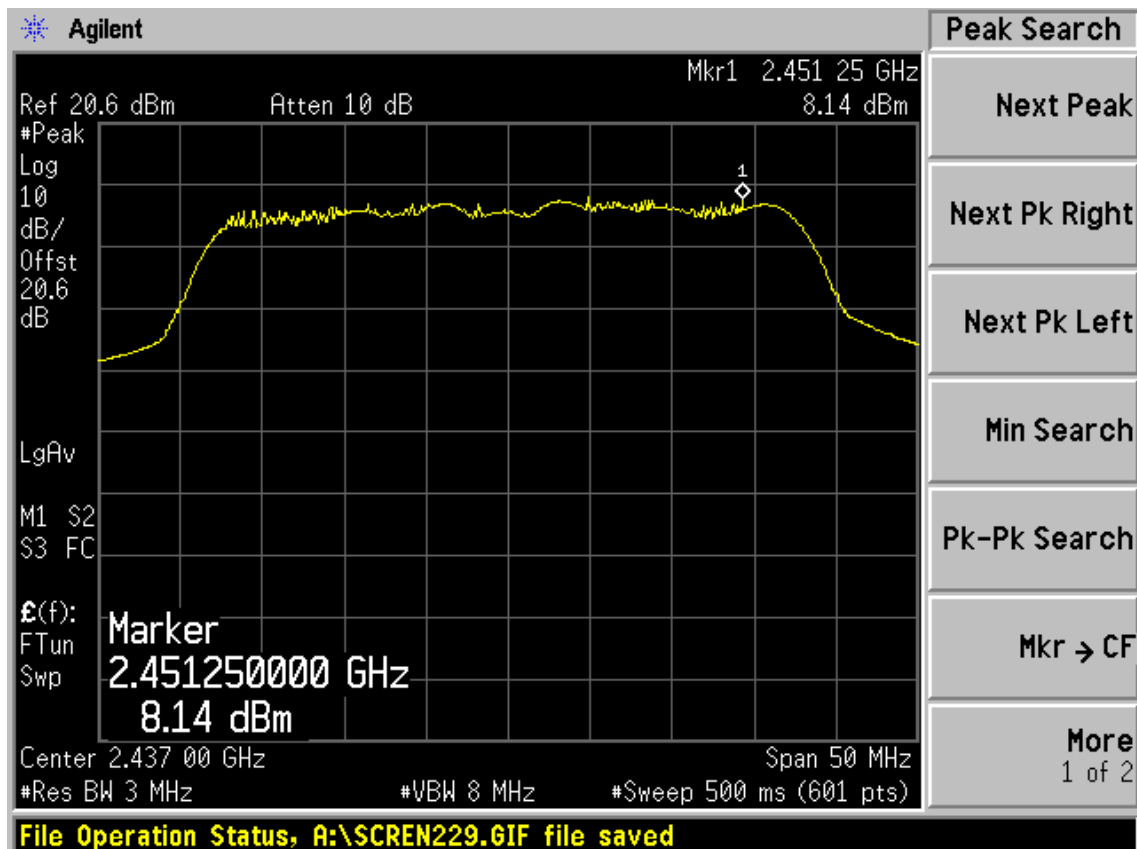
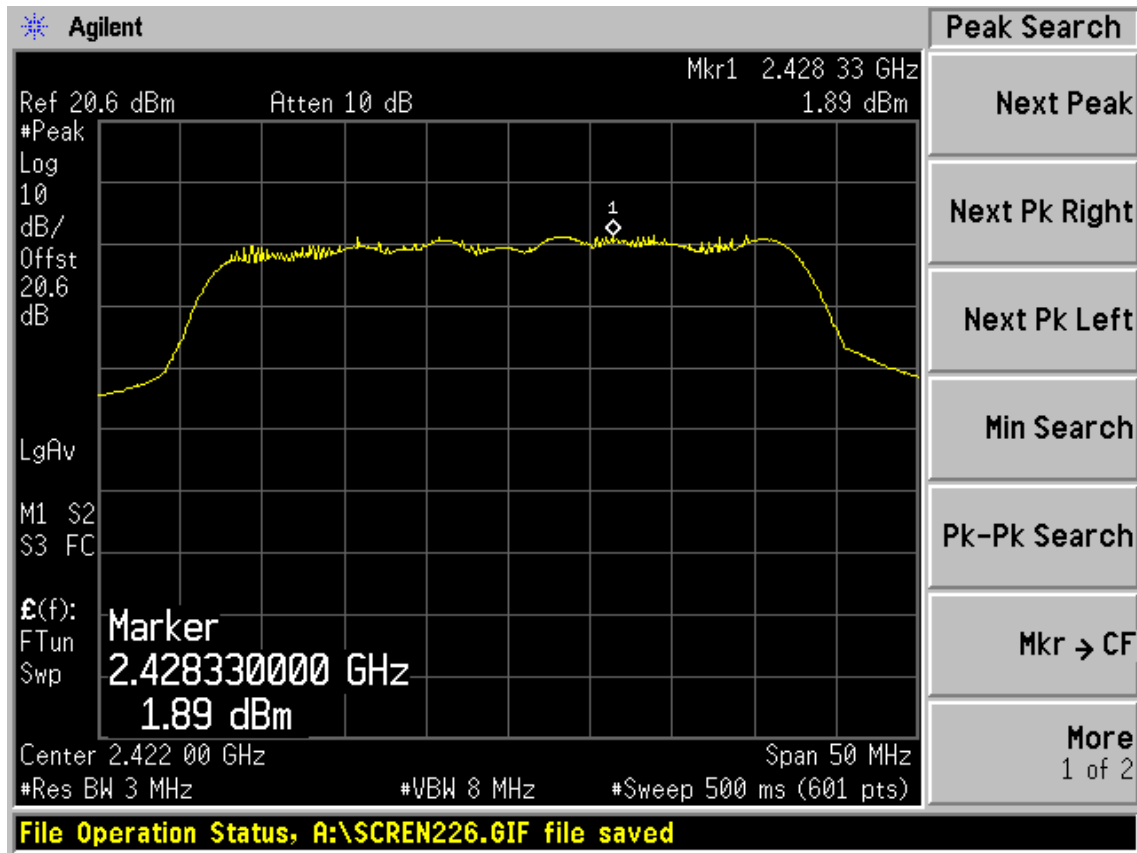


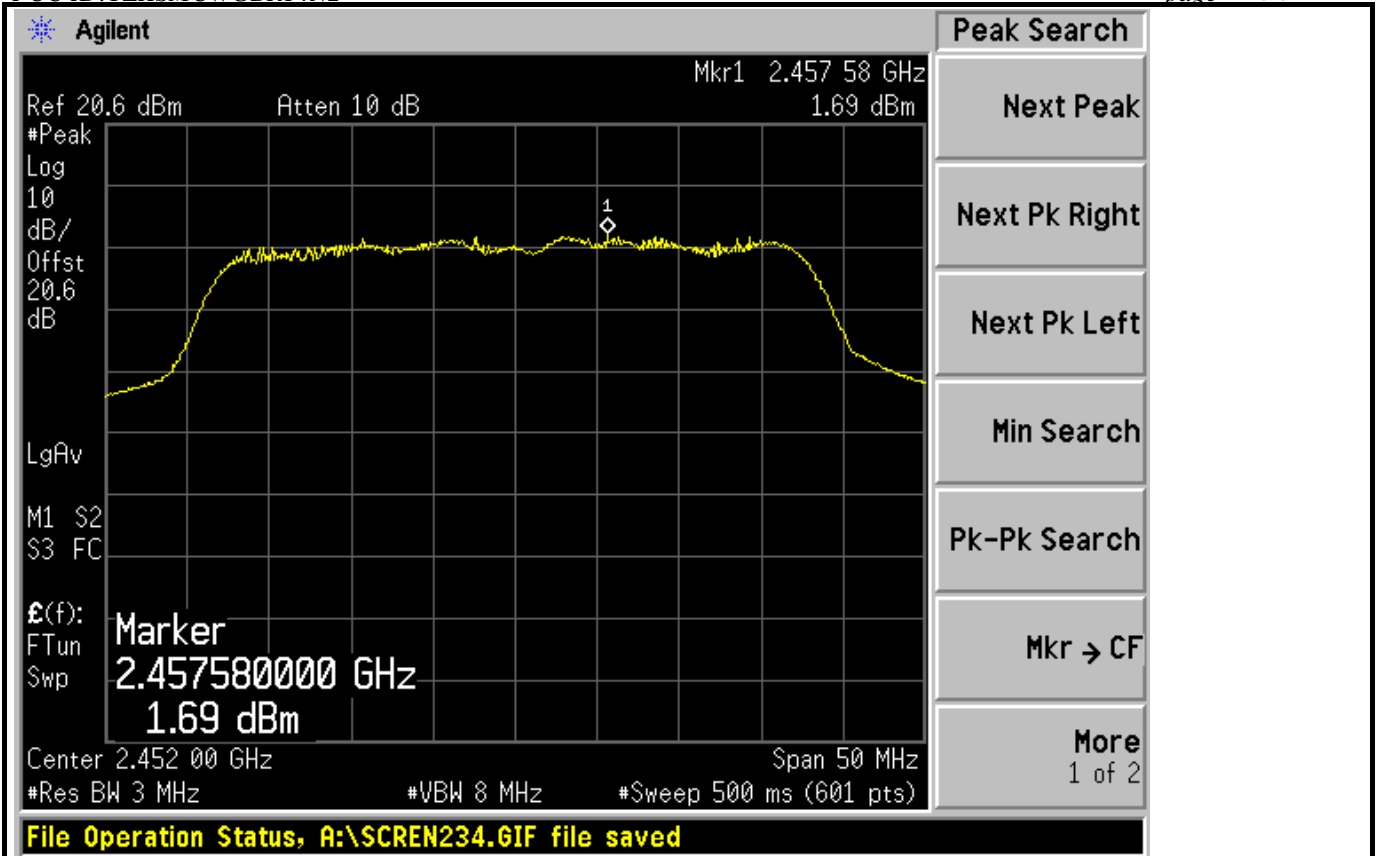
Chain 1





Chain 2





9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 11	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 11	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08, 11	1Year

9.2. Limit

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

9.3. Test Procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 3kHz RBW and 30kHz VBW, sweep time=span/3kHz according PSD option 1 of KDB 558074.

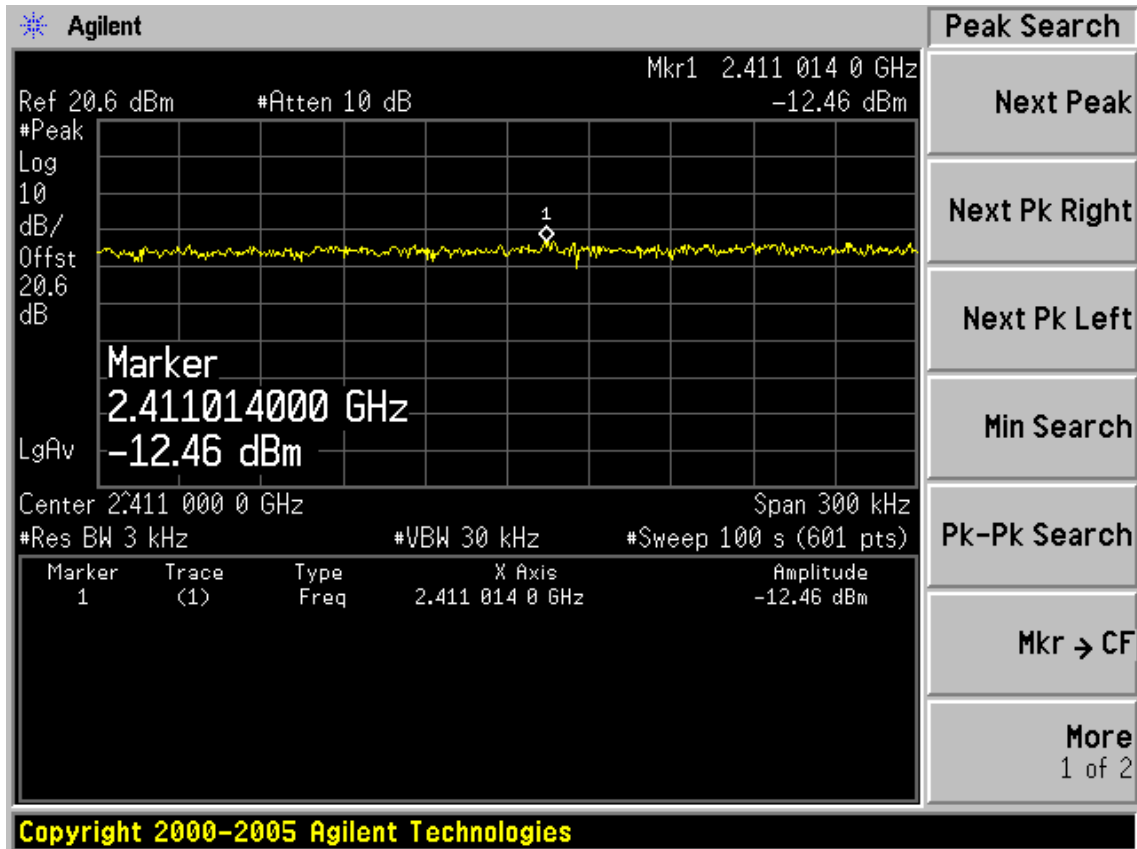
9.4. Test Results

EUT: 802.11n Wireless 4-port Gigabit Broadband Router M/N: SMCWGBR14-N2							
Power: DC 12V From Adapter input AC 120V/60Hz							
Data Rate: 11b 1Mbps ; 11g : 6Mbps ; 11n HT20 : 6.5Mbps ; 11n HT40 : 13.5Mbps(Note 1)							
Ambient Temperature: 25°C				Relative Humidity: 60%			
Test date: 2009/11/23				Test site: RF site		Tested By: Sunny-Lu	
Cable Loss : 0.6dB Attenuator : 20 dB Duty cycle : 100%							
Test CH	11b, 11g, 11n HT20	CH1: 2412MHz		CH6: 2437MHz		CH11: 2462MHz	
Test CH	11n HT40	CH1: 2422MHz		CH4: 2437MHz		CH7: 2452MHz	
Mode	CH	Chain1	Chain2	Chain3	Result		
		Read Level (dBm)	Read Level (dBm)	Read Level (dBm)	Total Power (dBm)	Limit (dBm)	Conclusion
11b	CH1	-12.46	-12.16	-12.75	N/A	8	PASS
	CH6	-11.36	-11.49	-11.58	N/A	8	PASS
	CH11	-11.94	-12.45	-12.33	N/A	8	PASS
11g	CH1	-14.62	-15.14	-14.63	N/A	8	PASS
	CH6	-12.20	-12.64	-12.90	N/A	8	PASS
	CH11	-14.79	-15.38	-14.43	N/A	8	PASS
11n HT20	CH1	-13.09	-14.08	-14.27	-9.01	8	PASS
	CH6	-11.60	-12.24	-12.21	-7.24	8	PASS
	CH11	-14.47	-14.34	-15.19	-9.88	8	PASS
11n HT40	CH1	-17.76	-17.79	-17.95	-13.06	8	PASS
	CH4	-16.09	-16.60	-15.57	-11.30	8	PASS
	CH7	-16.70	-17.71	-18.81	-12.88	8	PASS
Note1: According Exploratory test, These data rate have the maximum output power							
Note2: cable loss and Attenuator were offset to the spectrum analyzer							
Note3: For 11n HT20 and 11n HT40 , Total power = chain1 level + chain2 level + chain3 level (liner)							

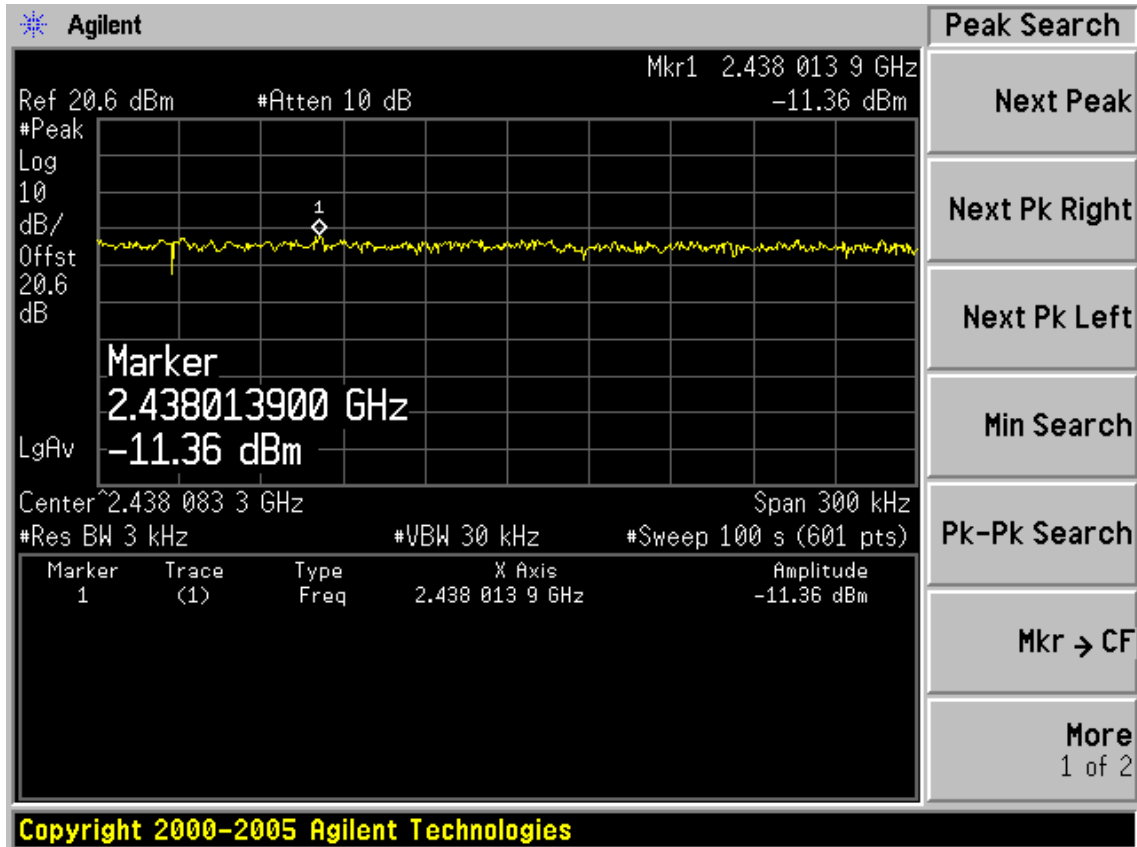
Chain 1:

Test Mode: IEEE 802.11b TX

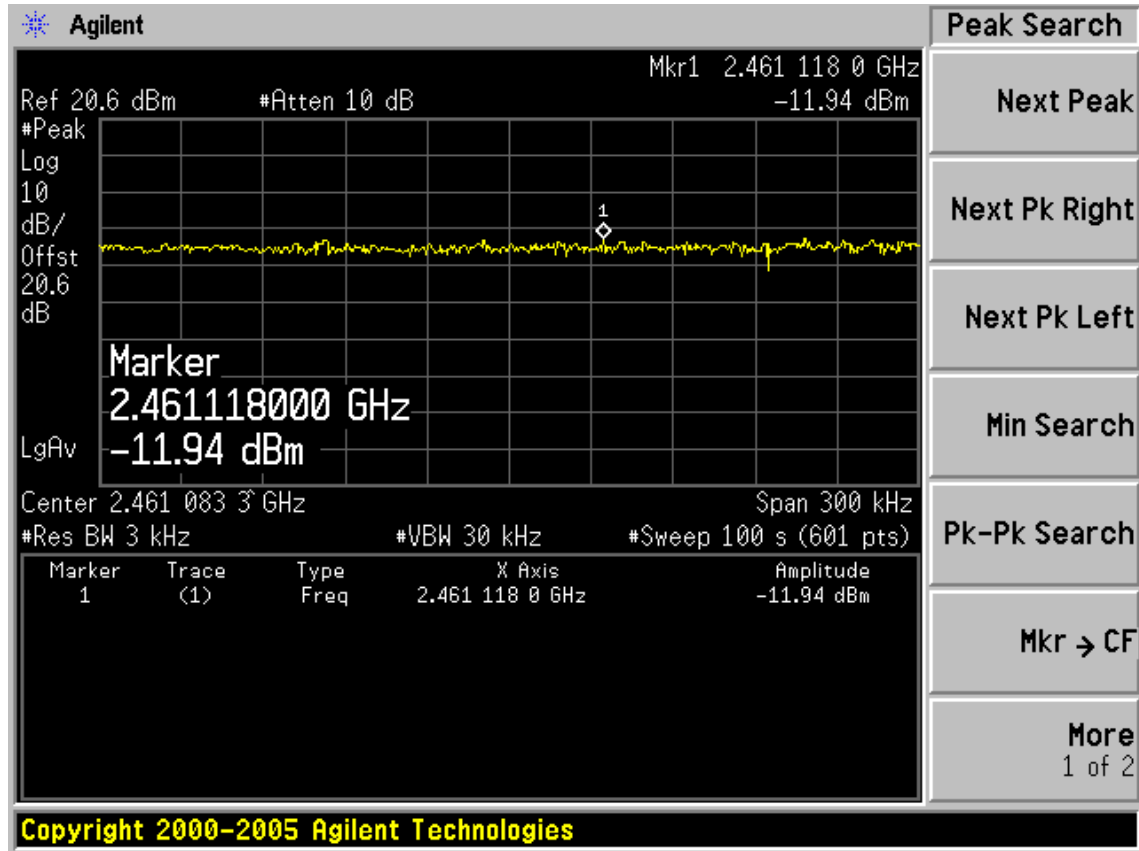
Test CH1: 2412MHz



Test CH6: 2437MHz

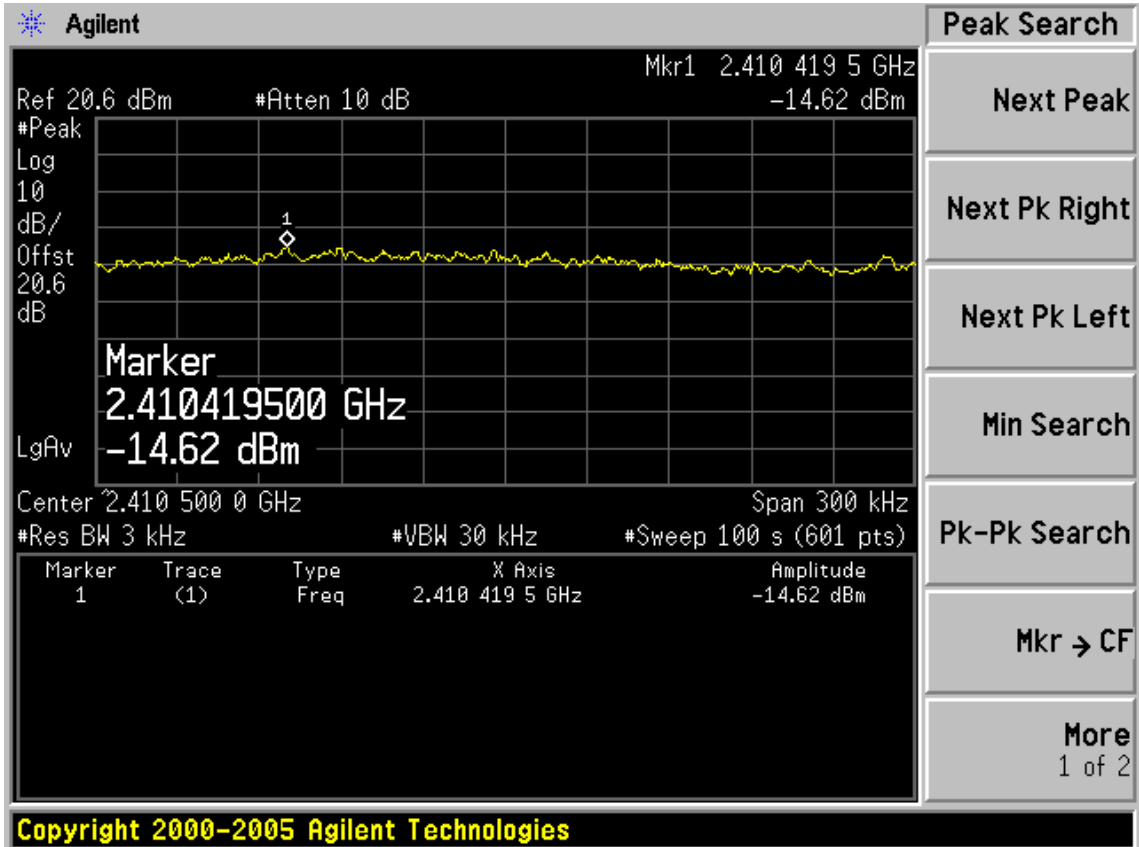


Test CH1: 2462MHz

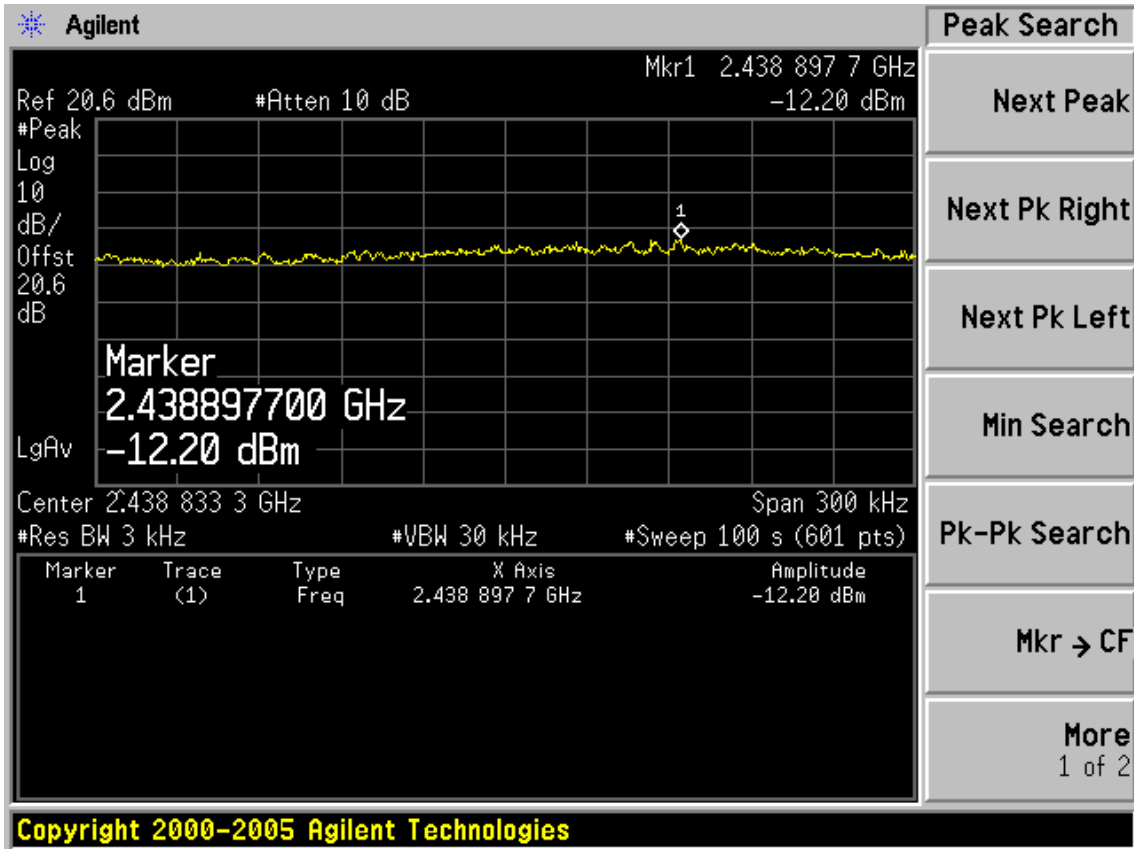


Test Mode: IEEE 802.11g TX

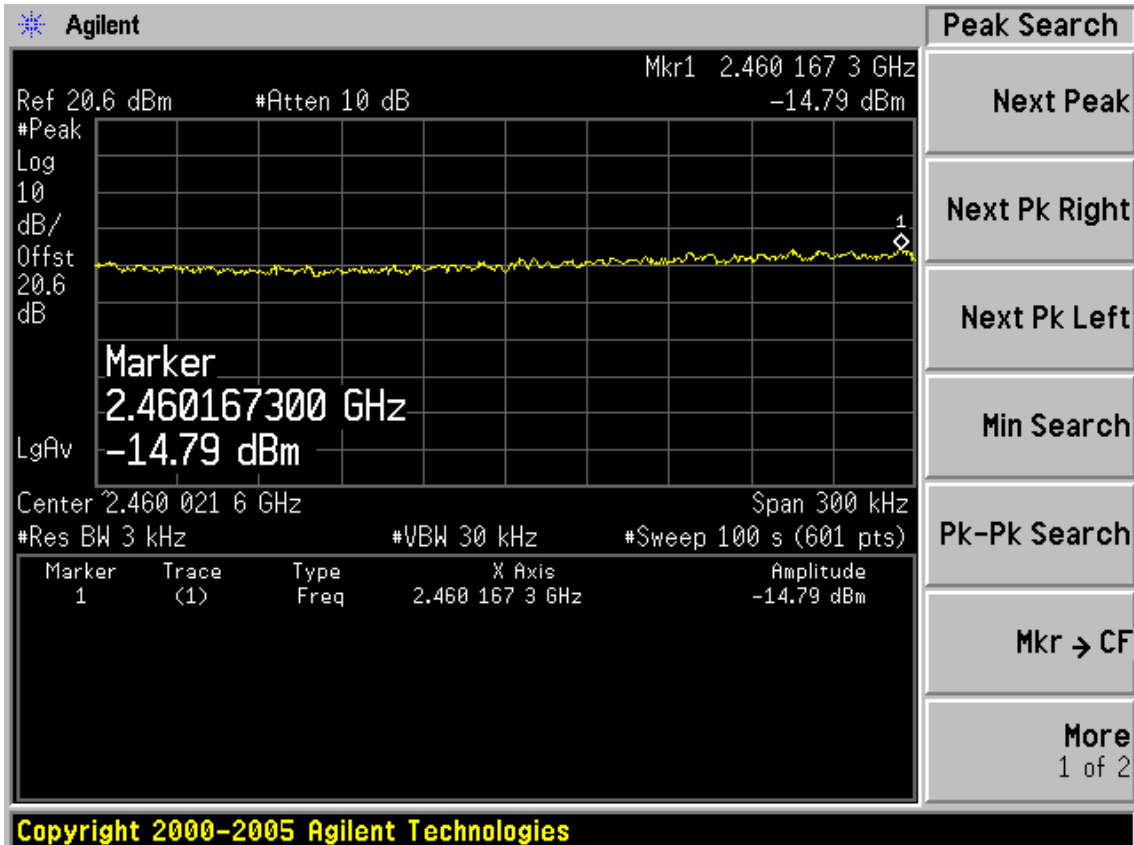
Test CH1: 2412MHz



Test CH6: 2437MHz

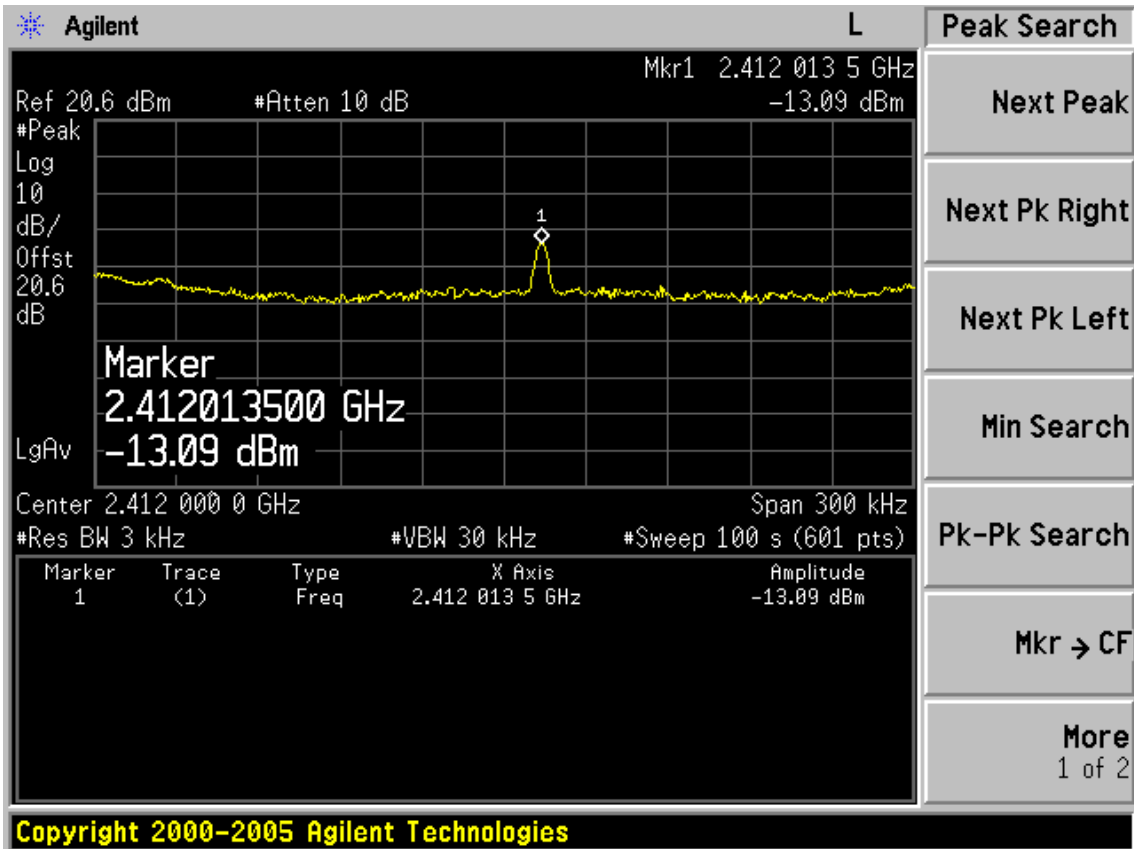


Test CH11: 2462MHz

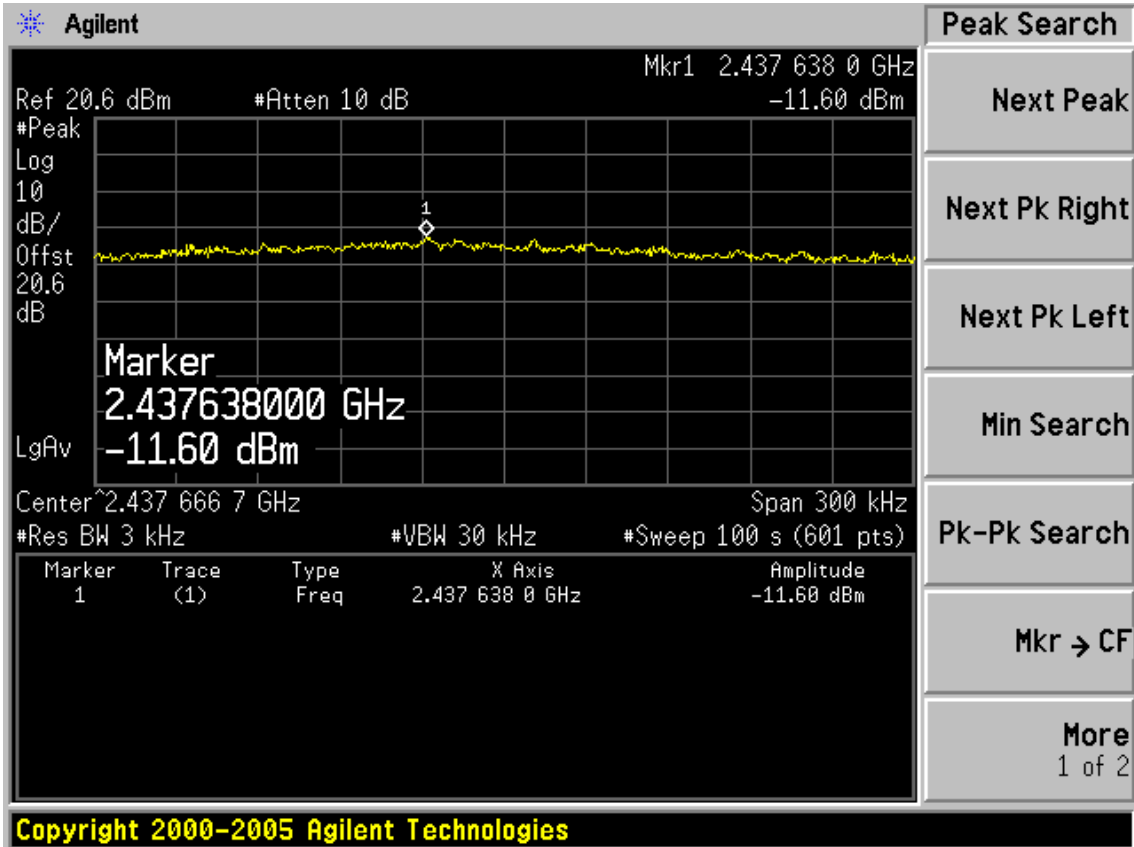


Test Mode: IEEE 802.11n HT20 TX

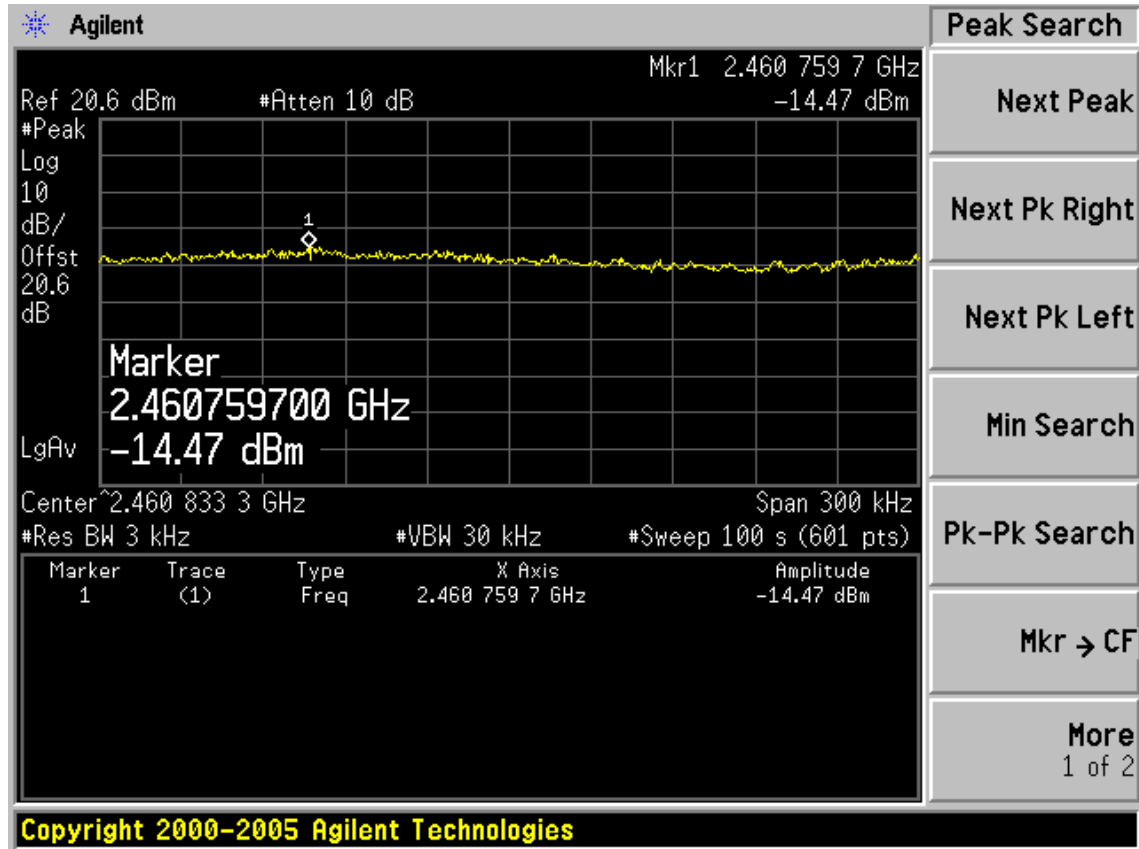
Test CH1: 2412MHz



Test CH6: 2437MHz

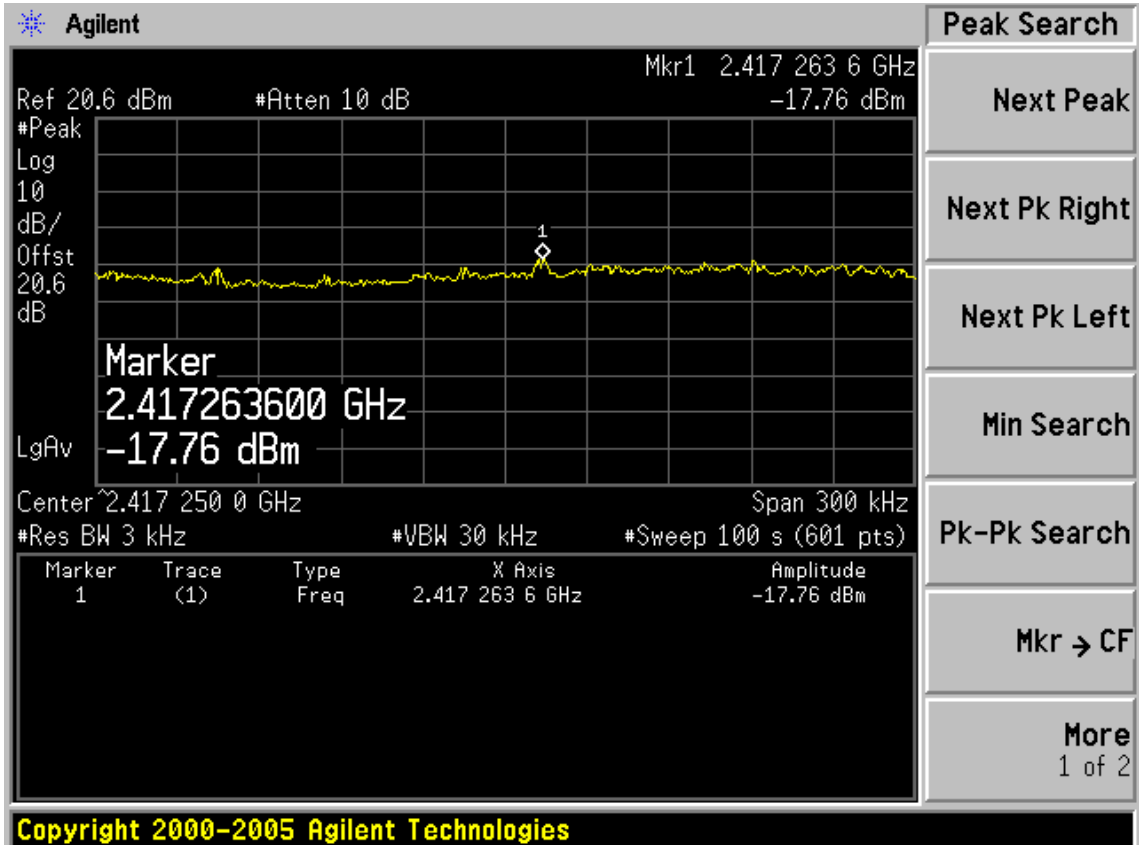


Test CH1: 2462MHz

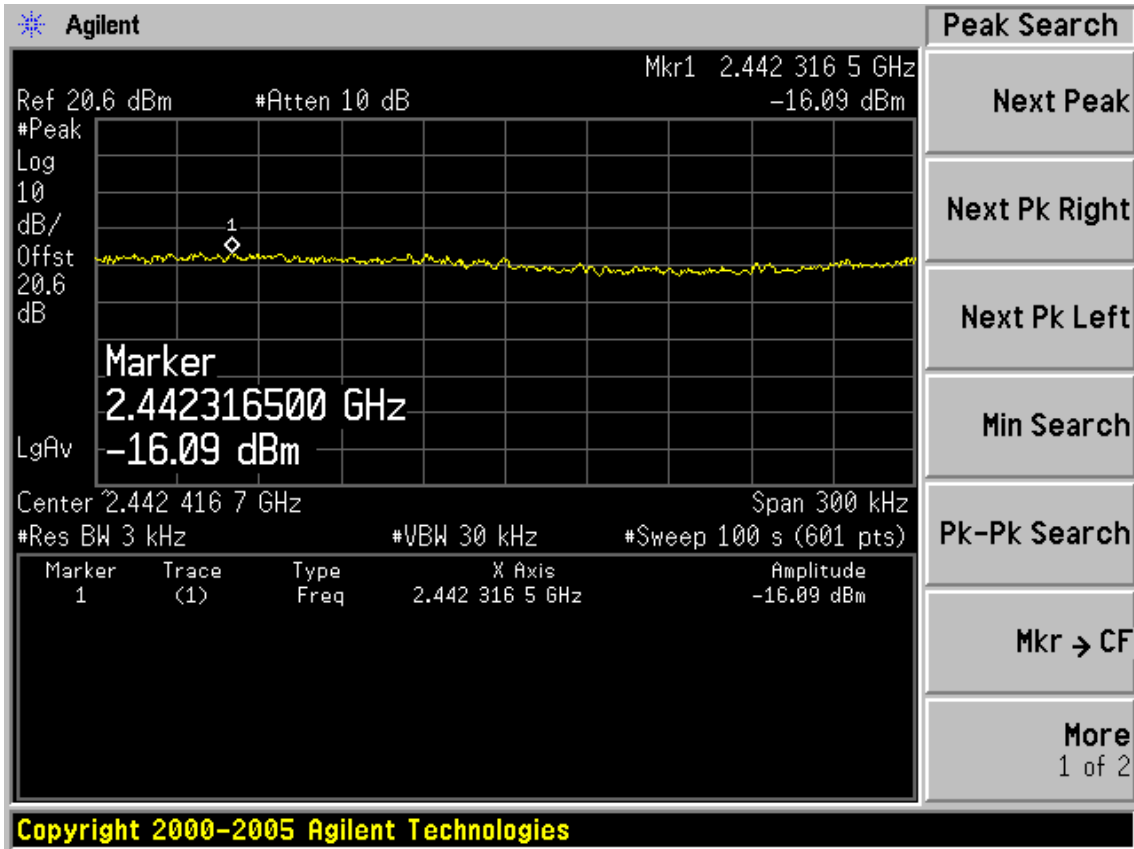


Test Mode: IEEE 802.11n HT40 TX

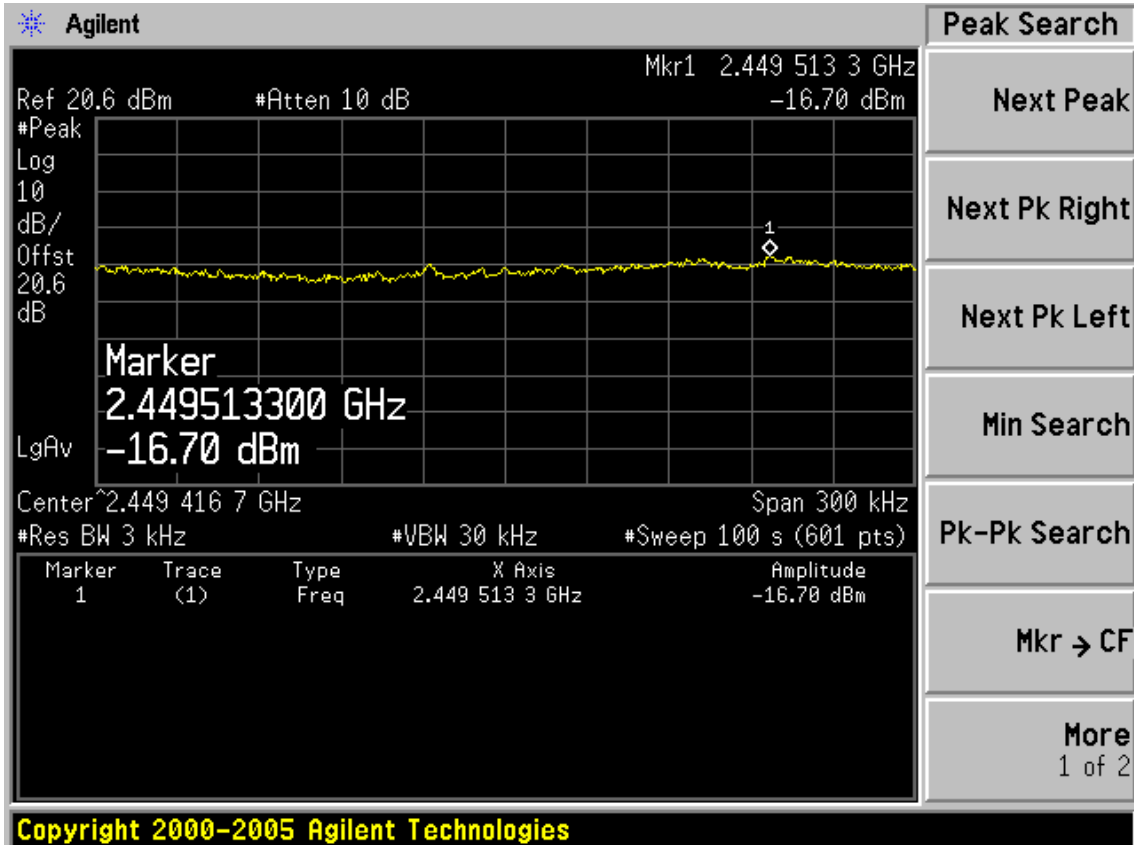
Test CH1: 2422MHz



Test CH4: 2437MHz



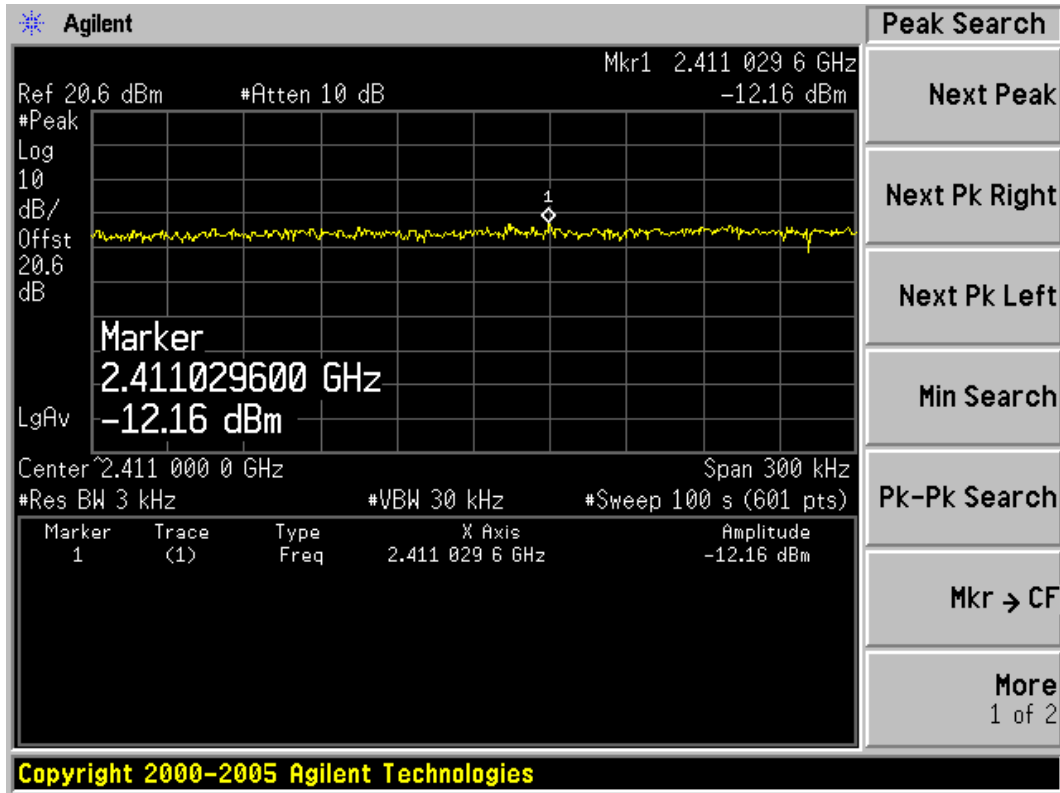
Test CH7: 2452MHz



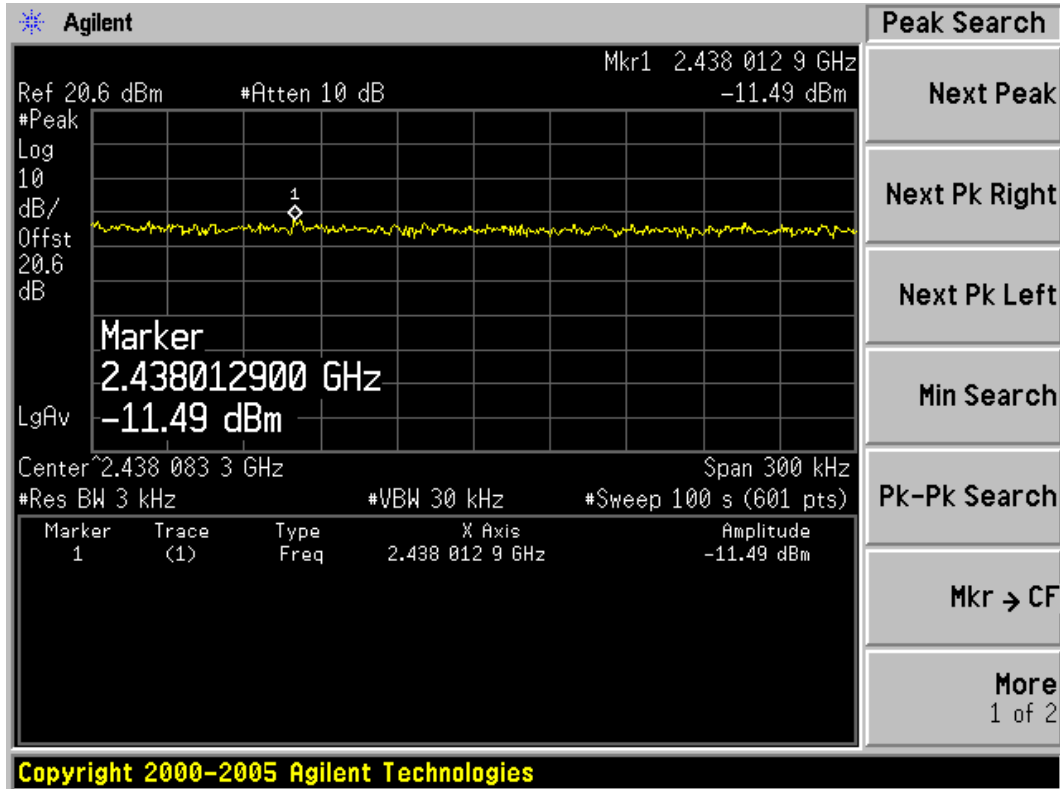
Chain 2:

Test Mode: IEEE 802.11b TX

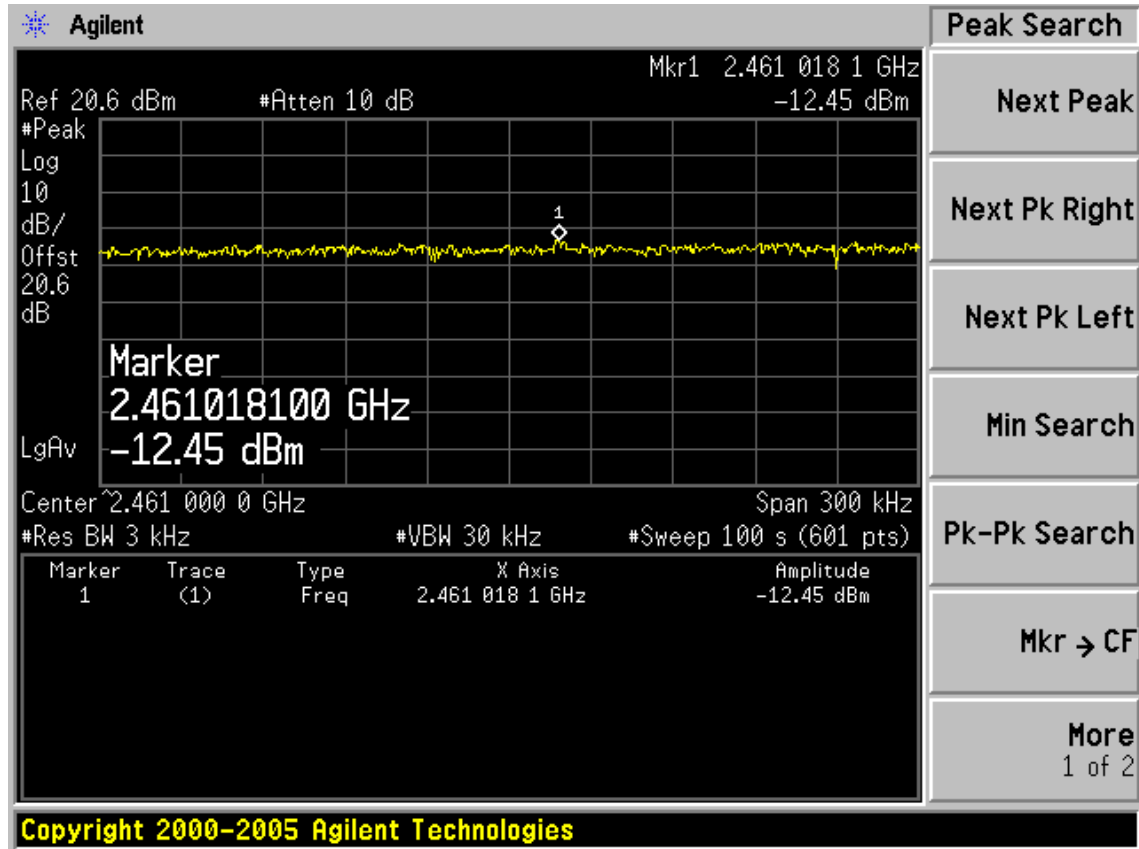
Test CH1: 2412MHz



Test CH6: 2437MHz

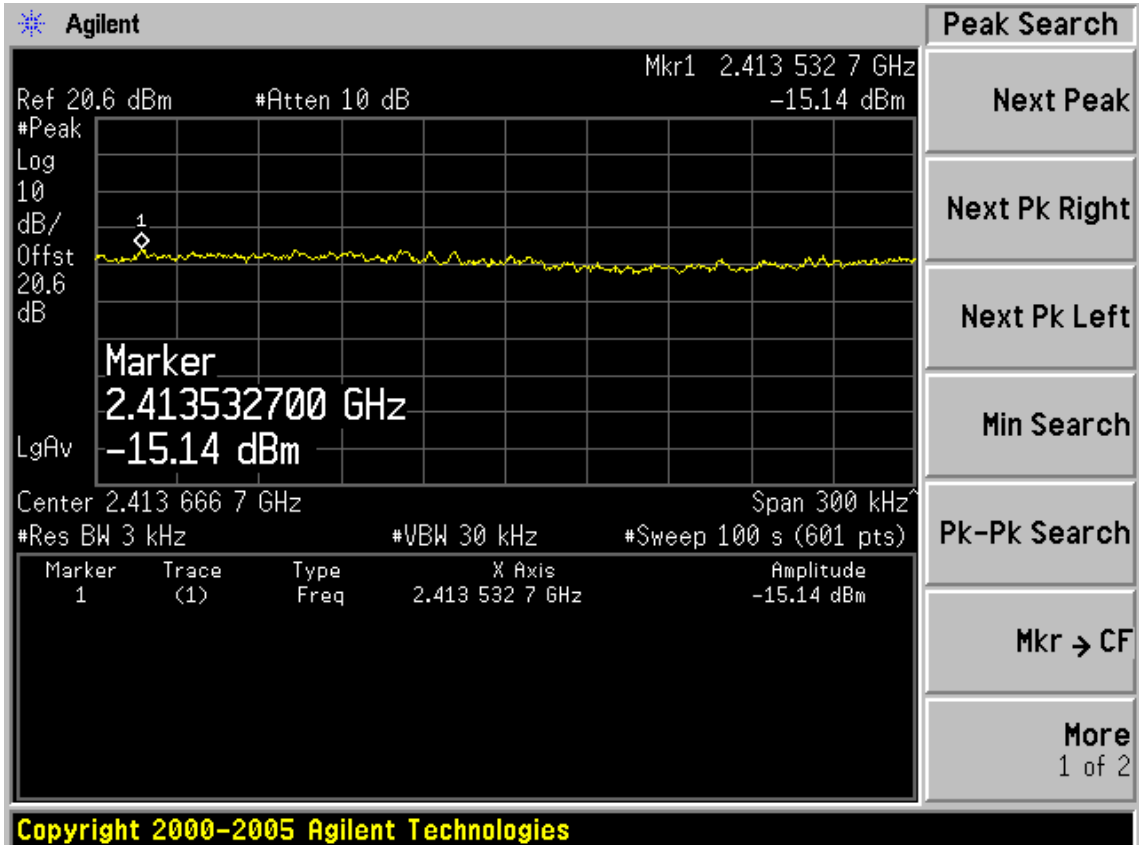


Test CH1: 2462MHz

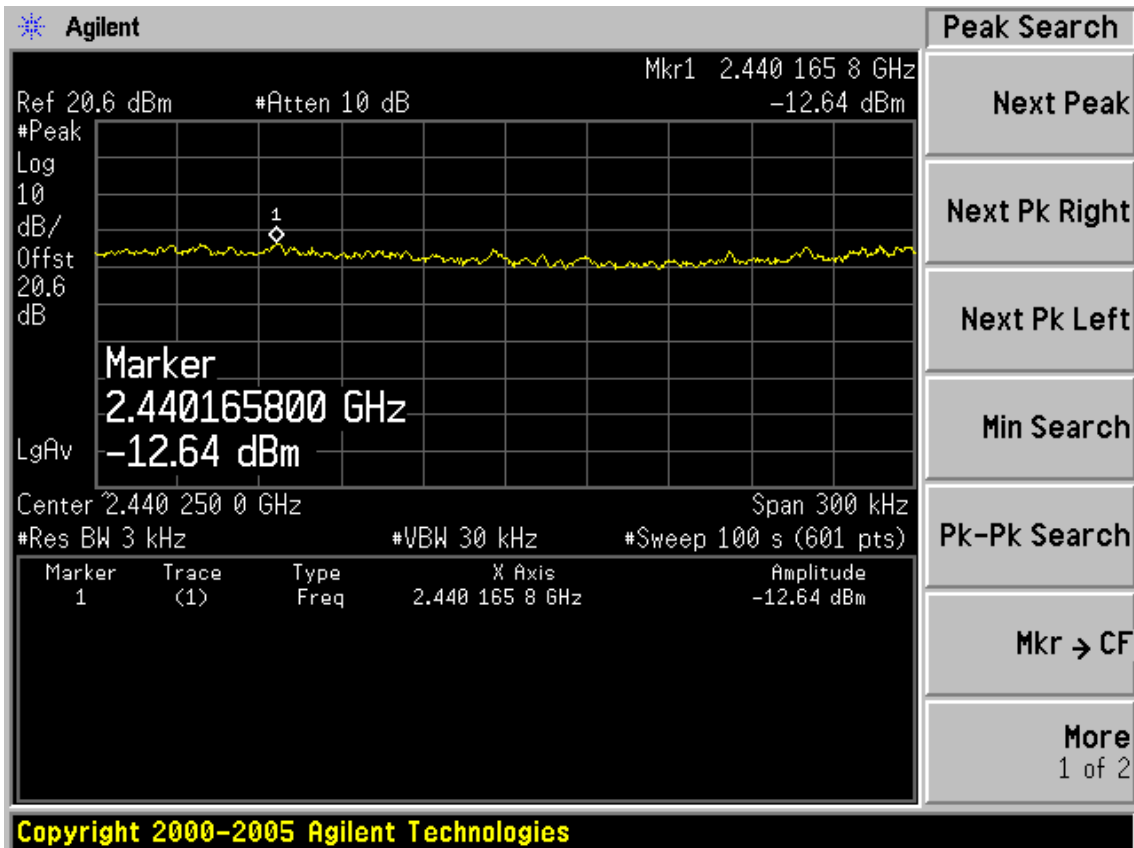


Test Mode: IEEE 802.11g TX

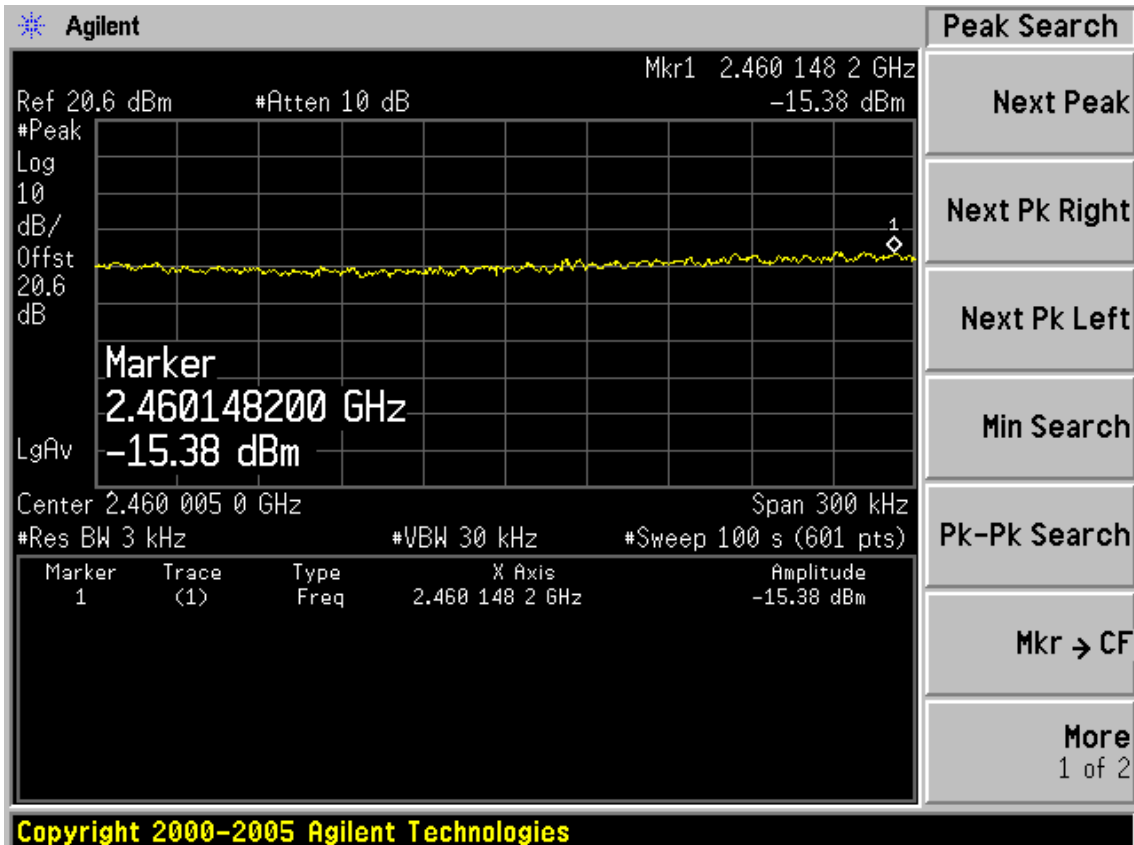
Test CH1: 2412MHz



Test CH6: 2437MHz

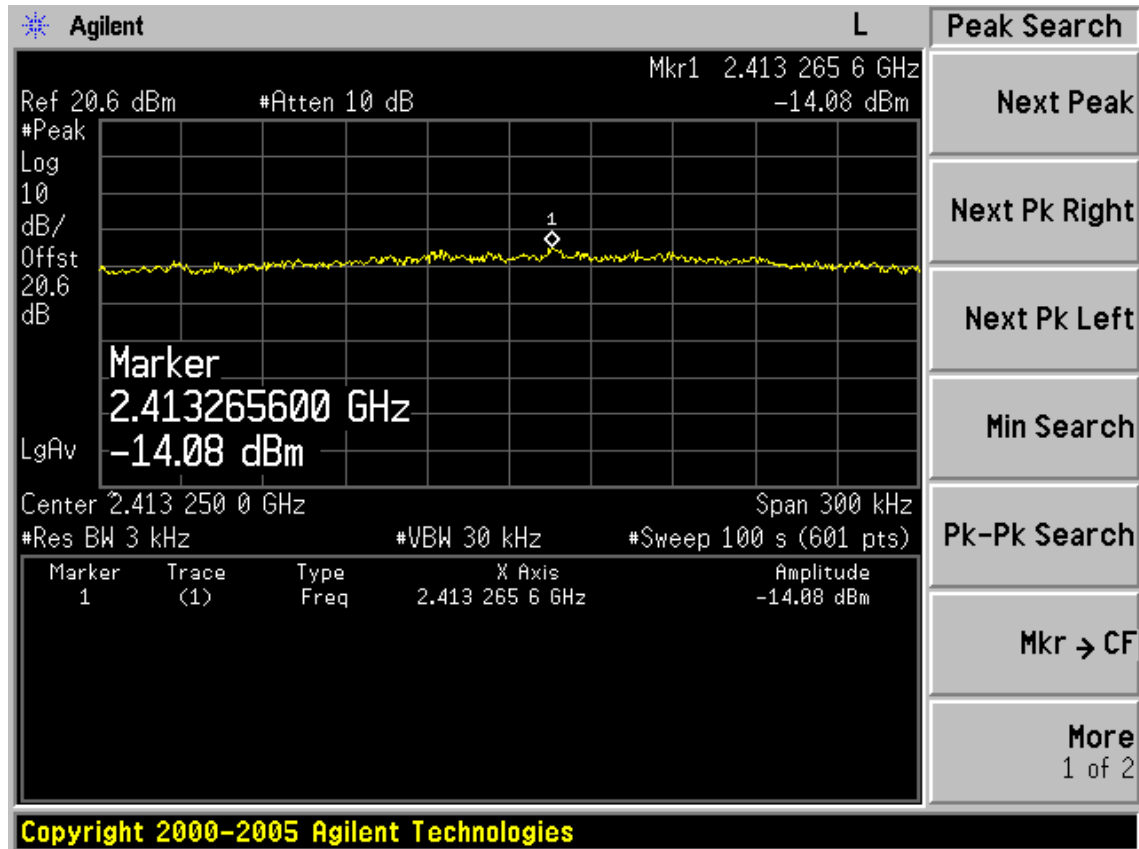


Test CH11: 2462MHz

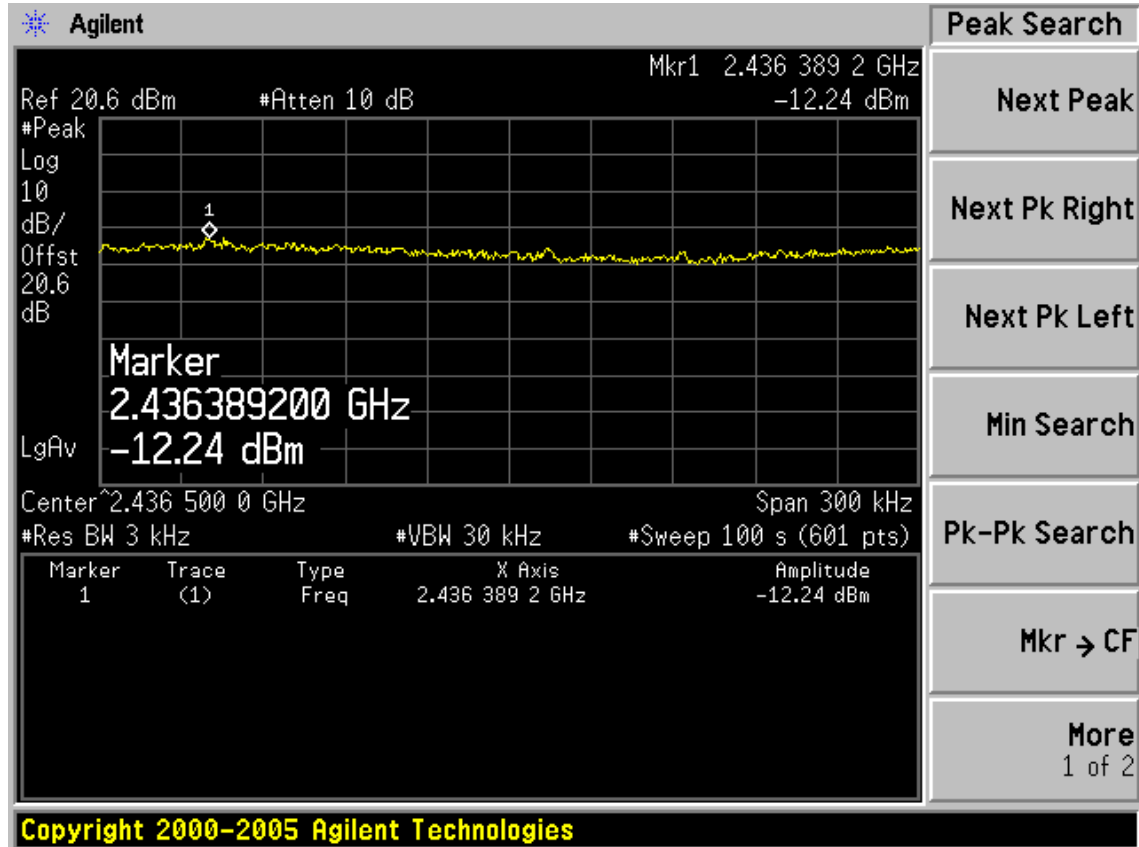


Test Mode: IEEE 802.11n HT20 TX

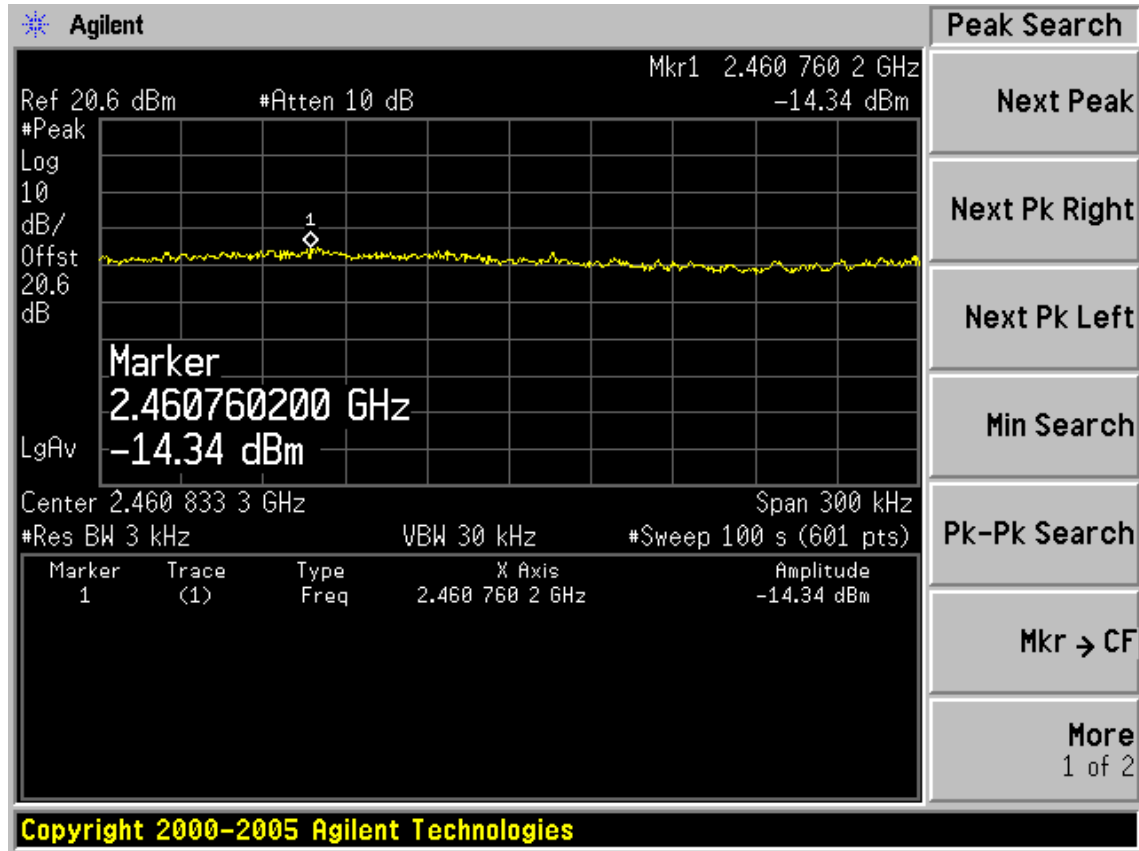
Test CH1: 2412MHz



Test CH6: 2437MHz

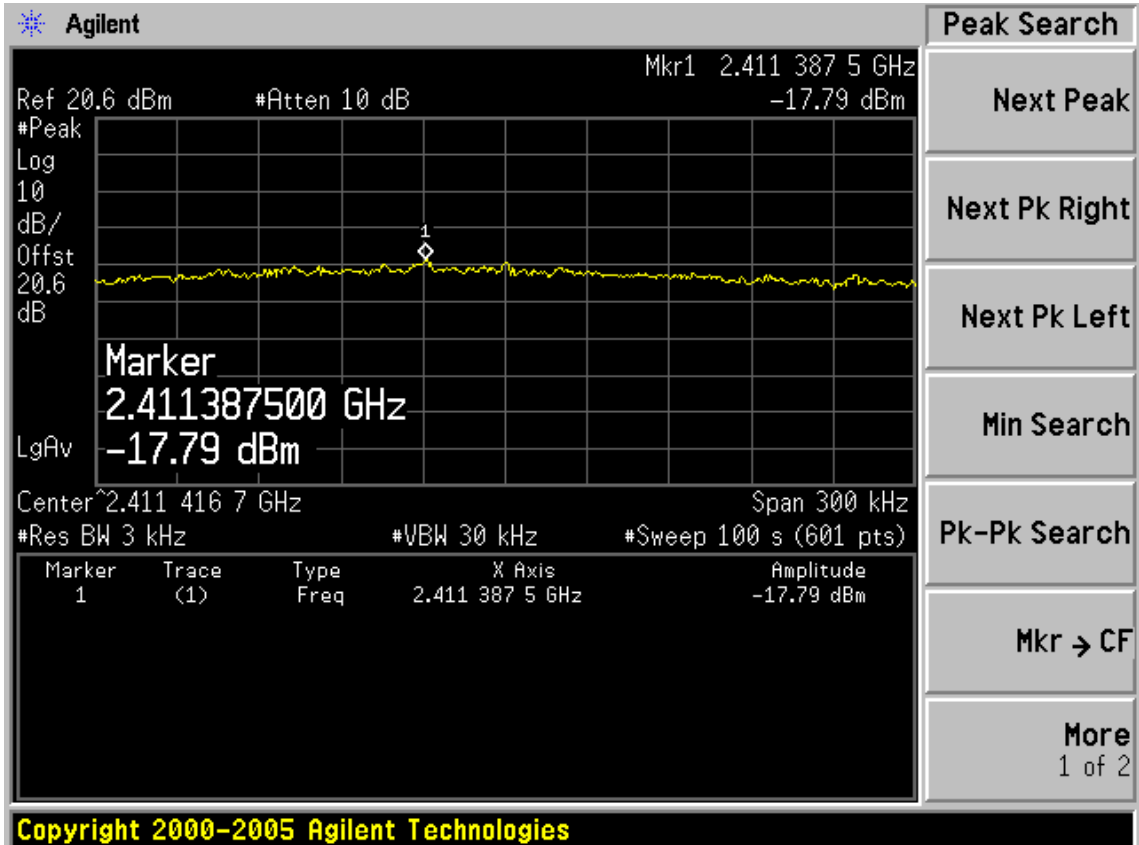


Test CH11: 2462MHz

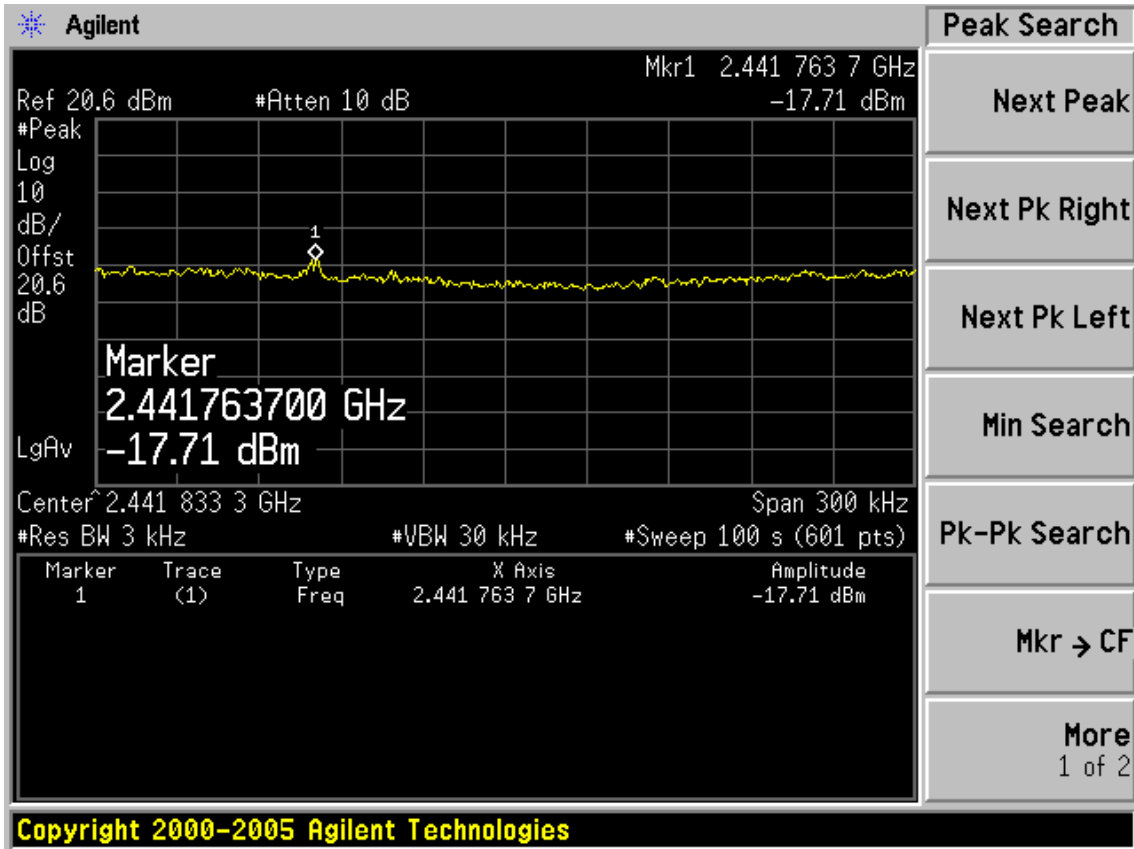


Test Mode: IEEE 802.11n HT40 TX

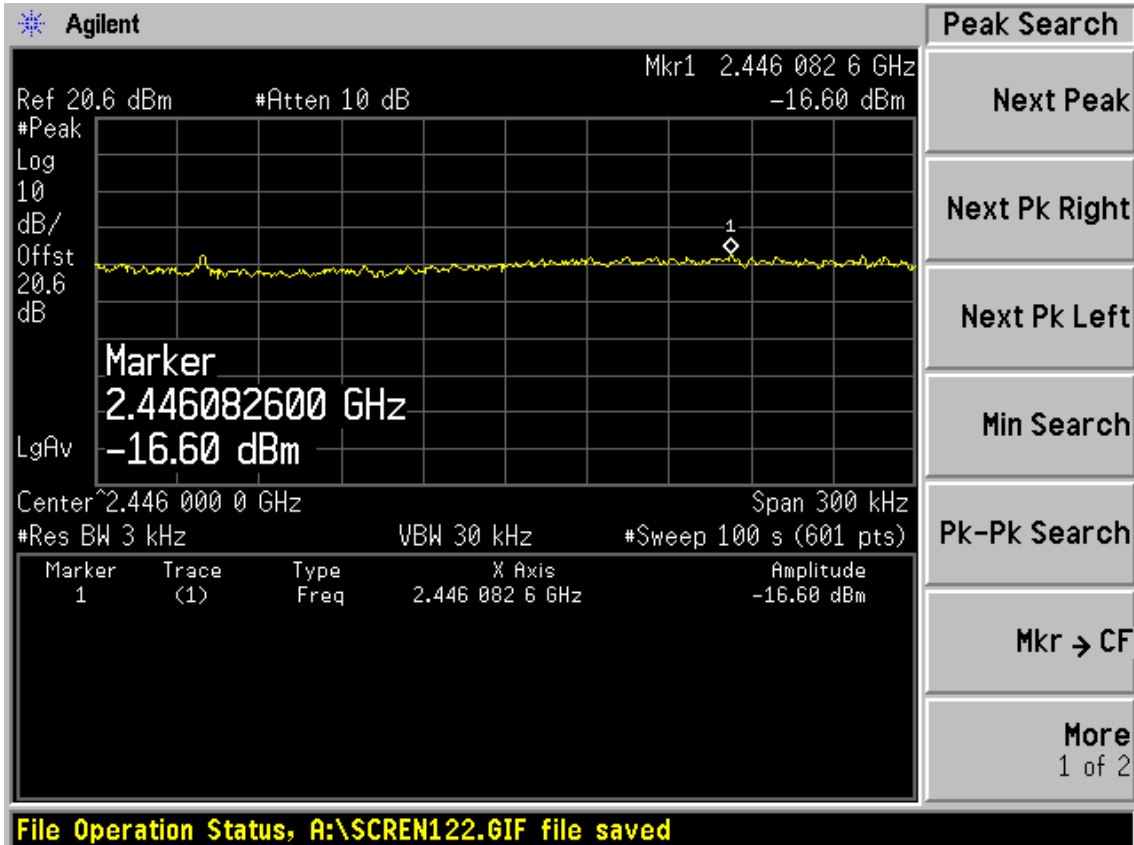
Test CH1: 2422MHz



Test CH4: 2437MHz



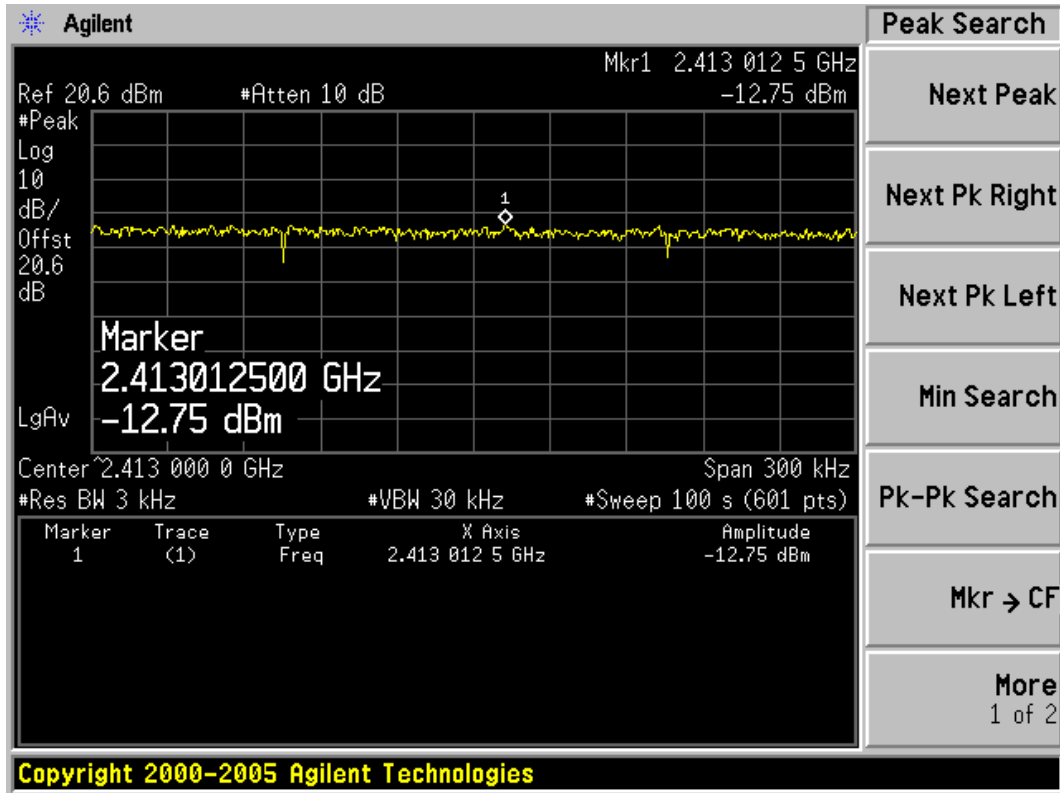
Test CH7: 2452MHz



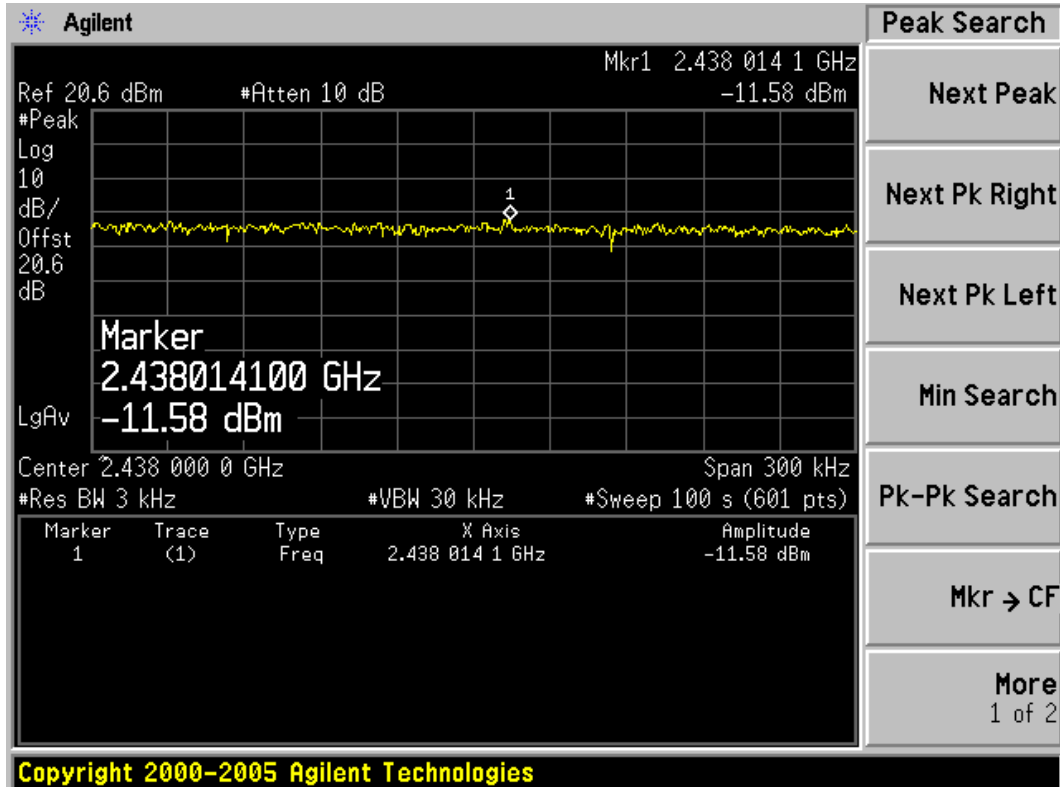
Chain 3:

Test Mode: IEEE 802.11b TX

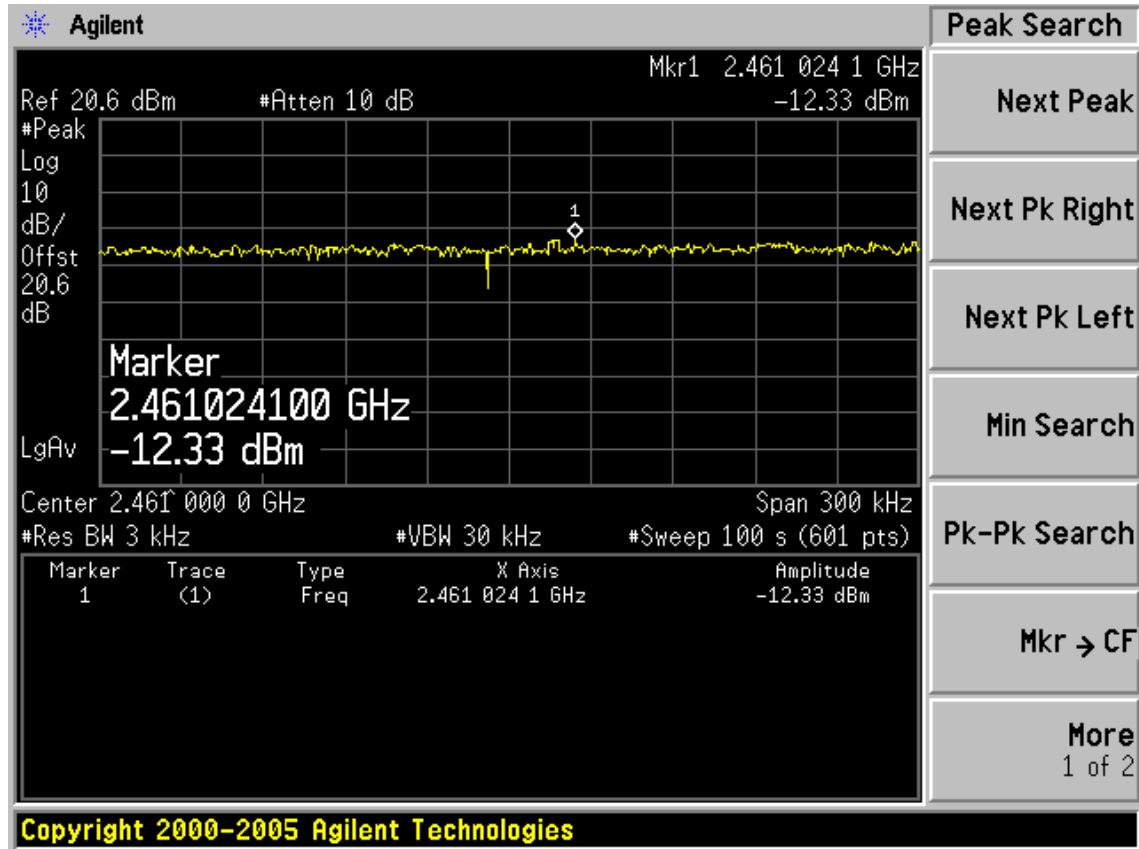
Test CH1: 2412MHz



Test CH6: 2437MHz

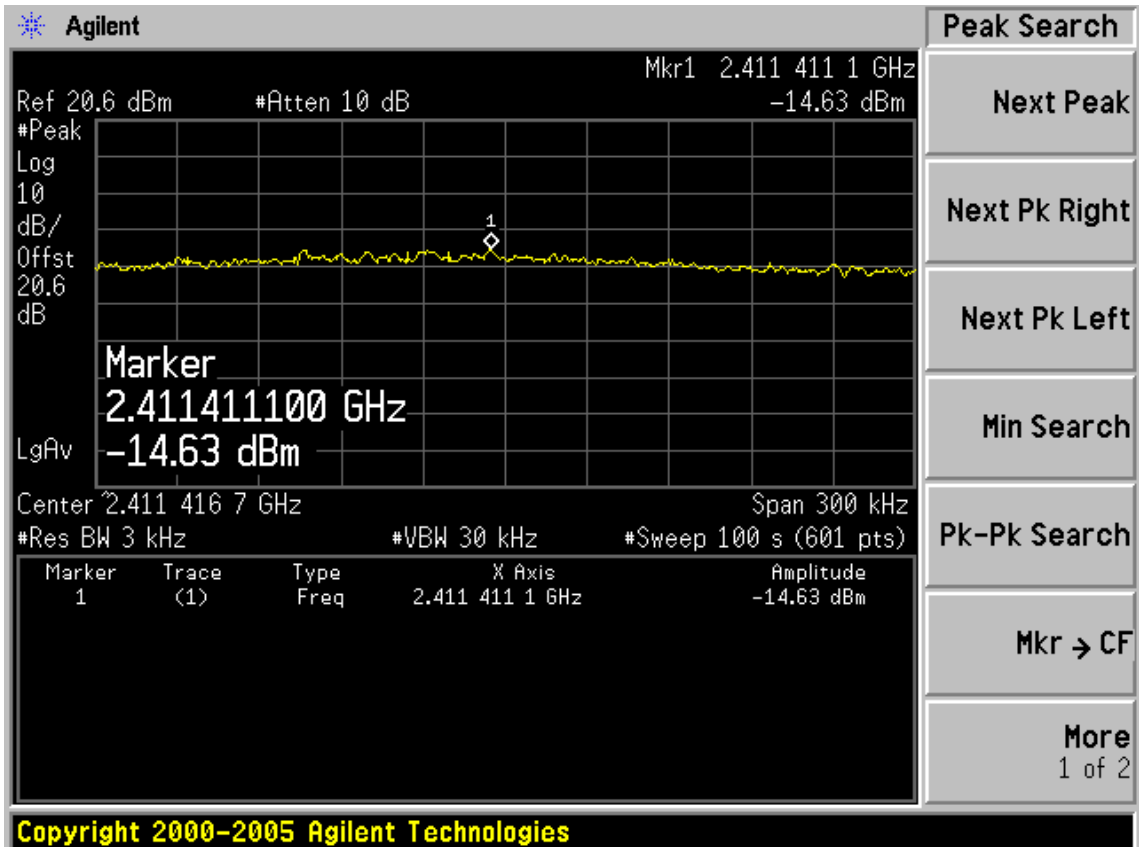


Test CH11: 2462MHz

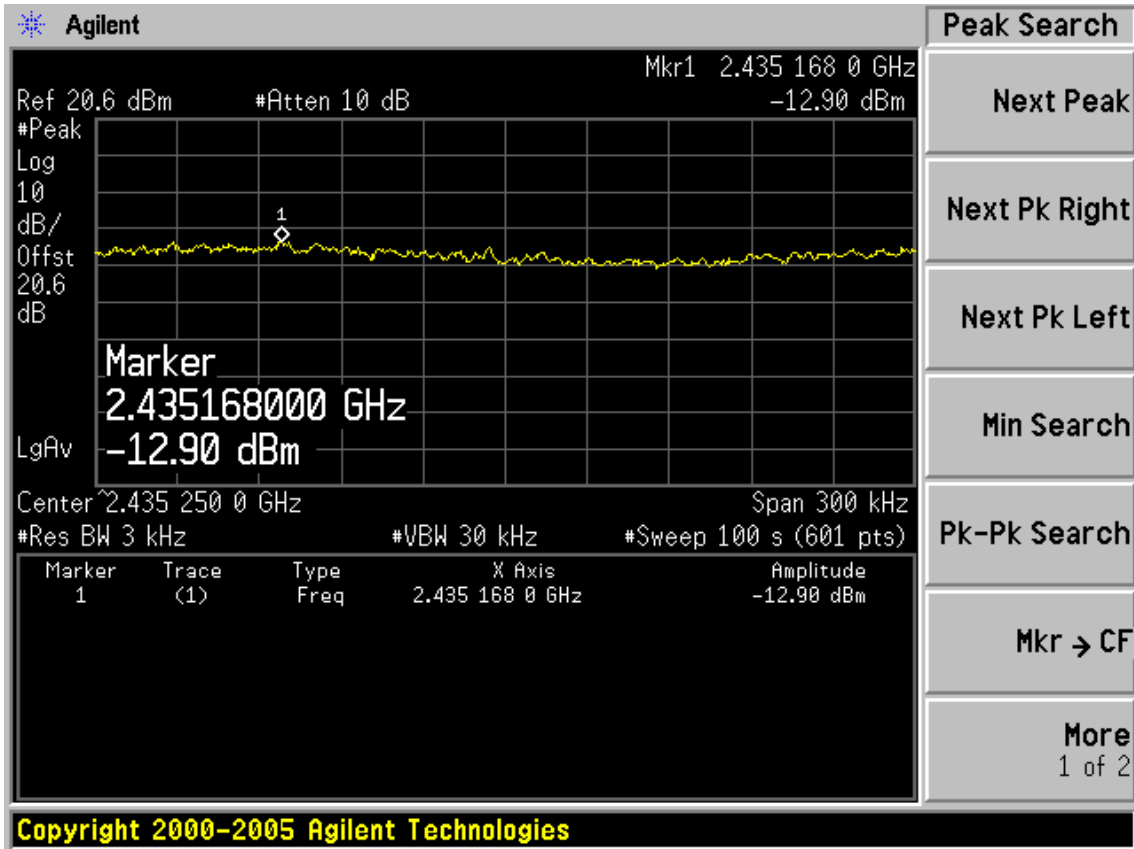


Test Mode: IEEE 802.11g TX

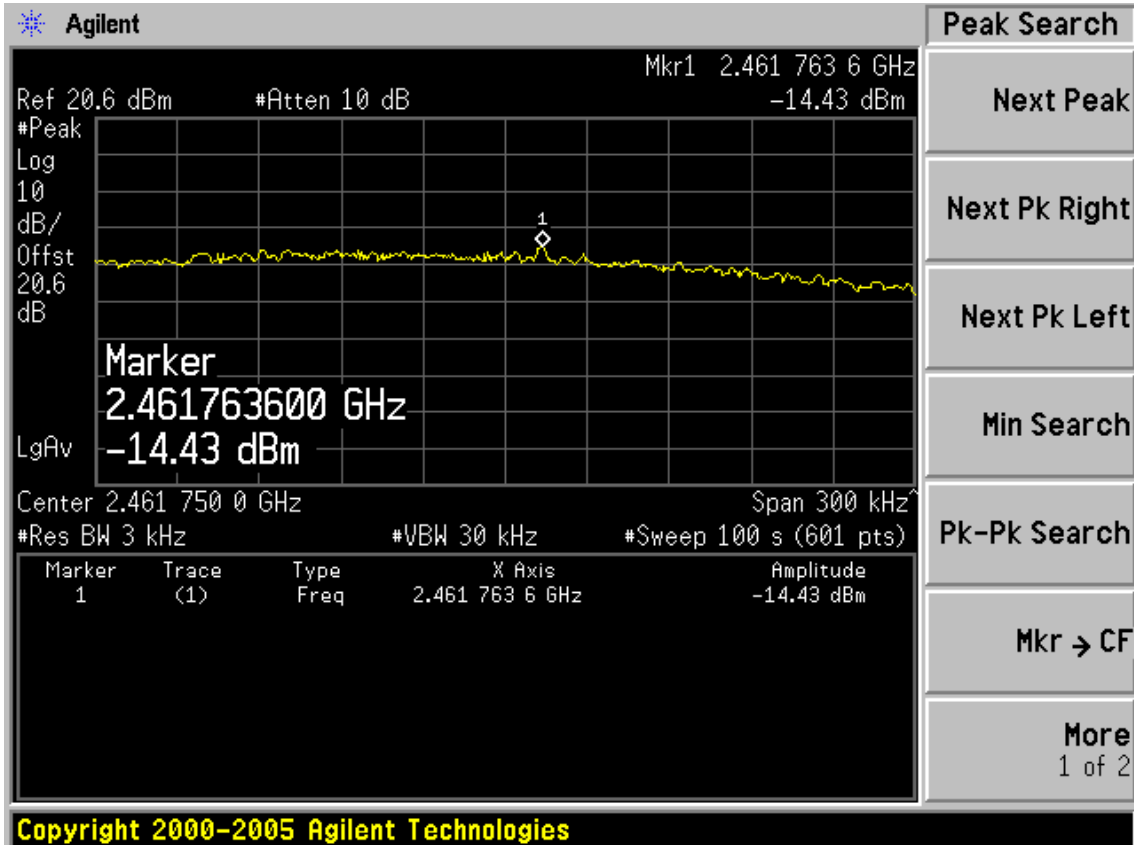
Test CH1: 2412MHz



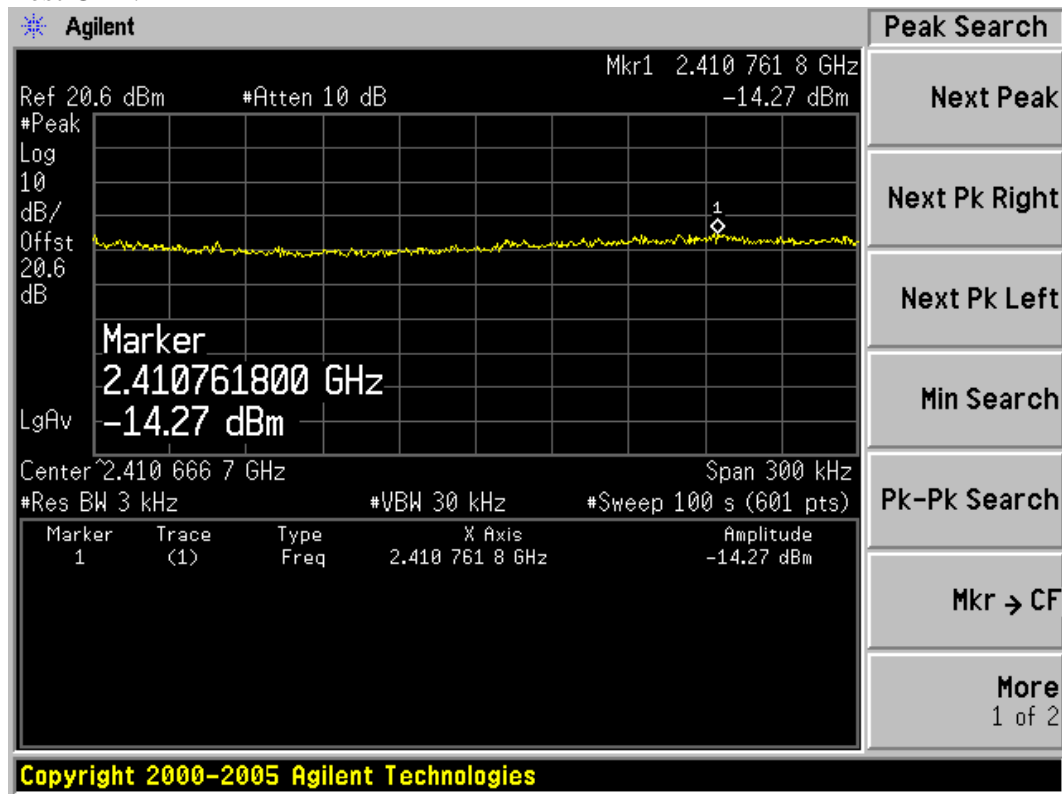
Test CH6: 2437MHz



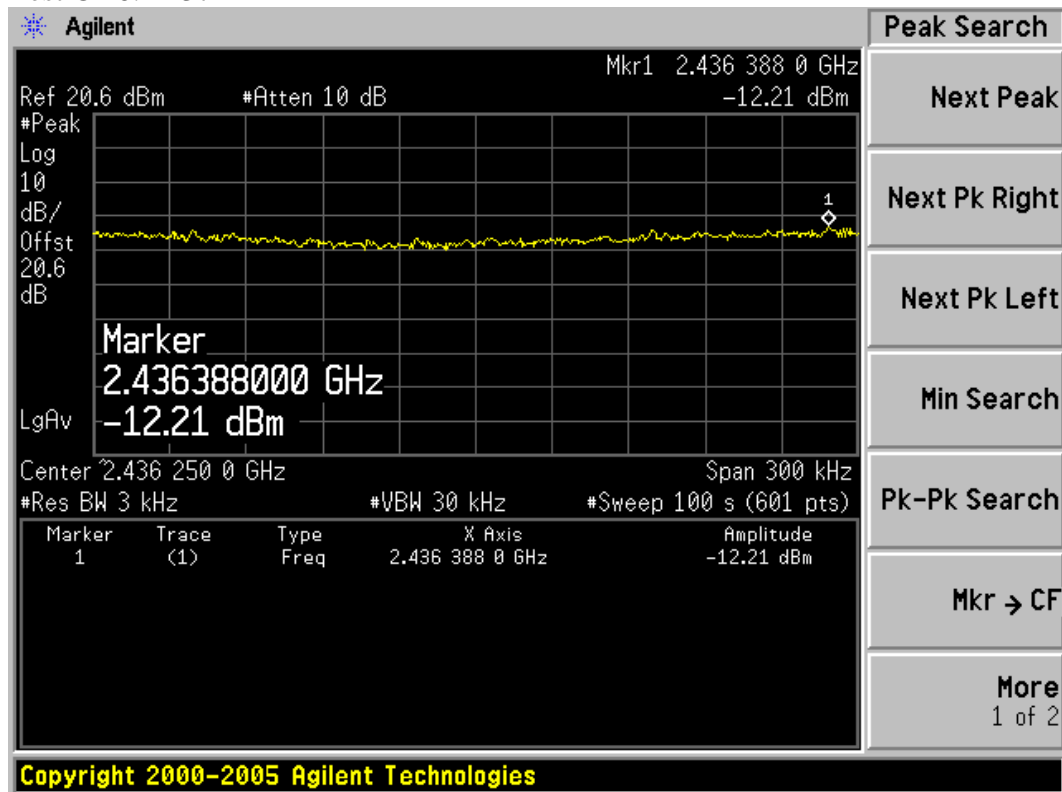
Test CH11: 2462MHz



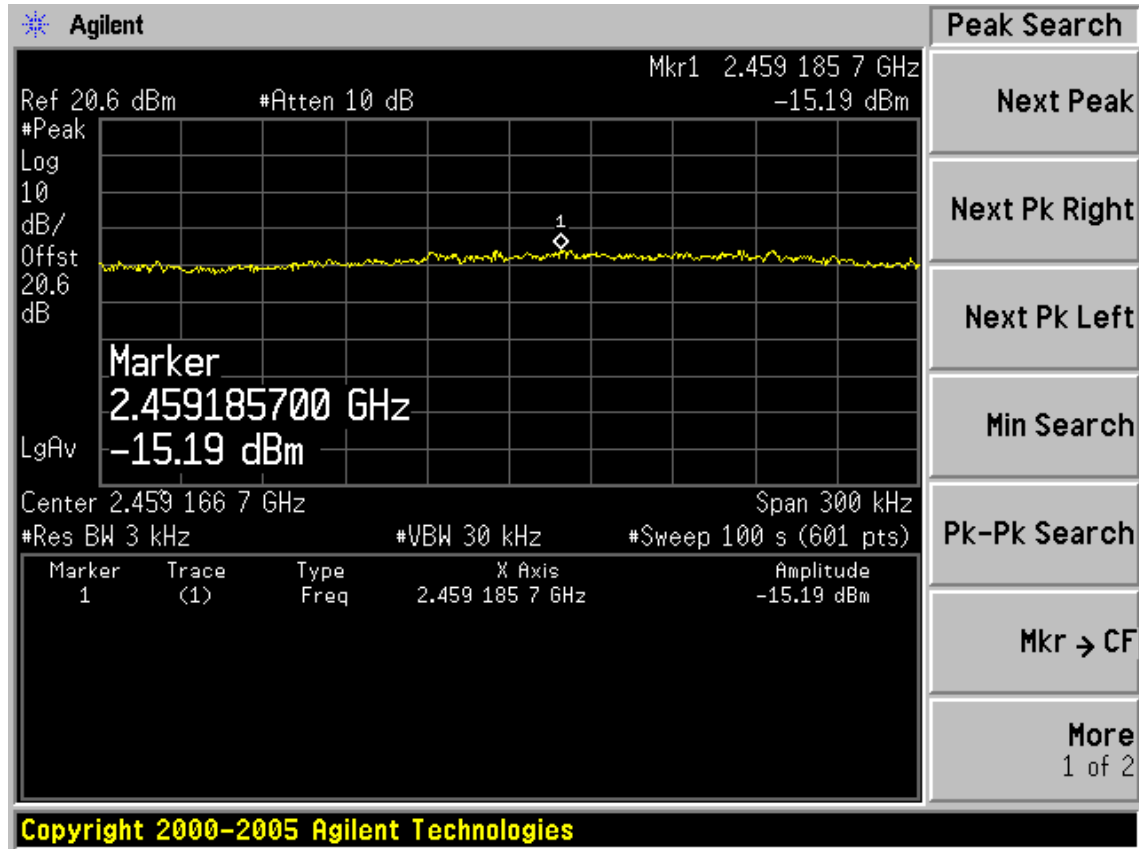
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

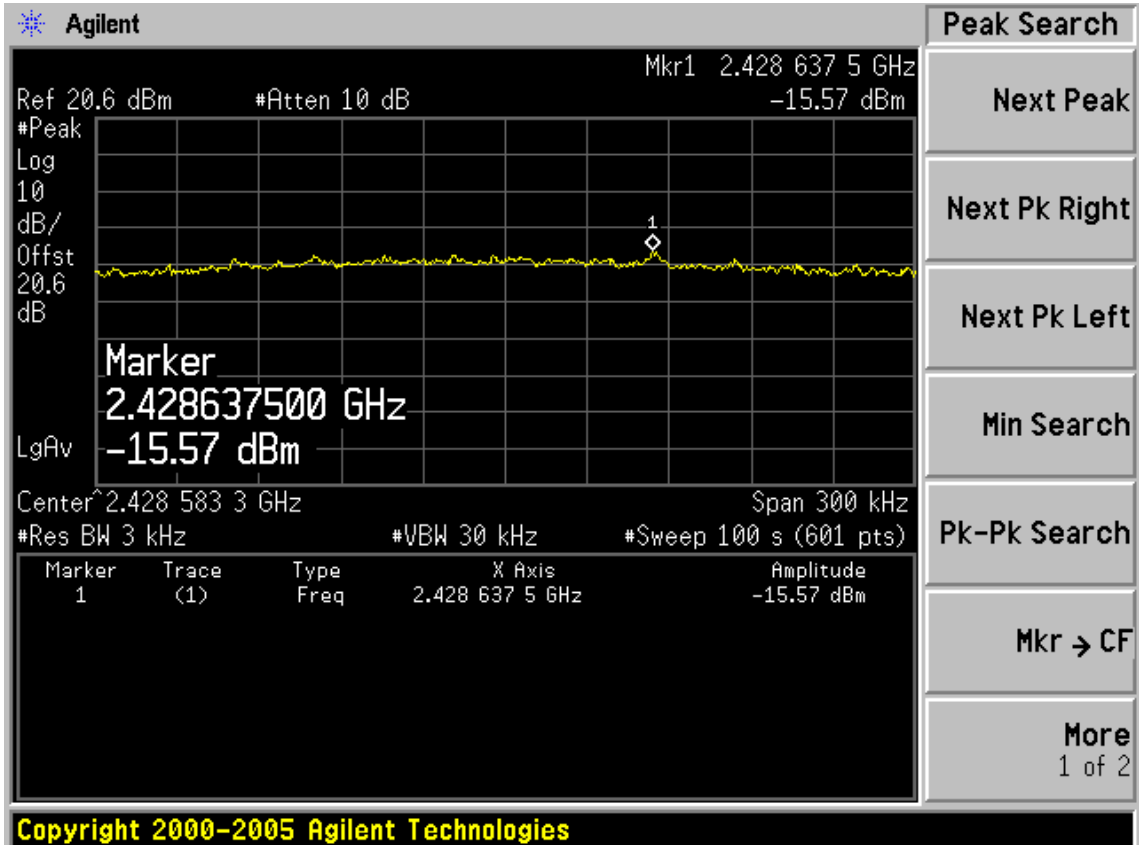


Test CH1: 2462MHz

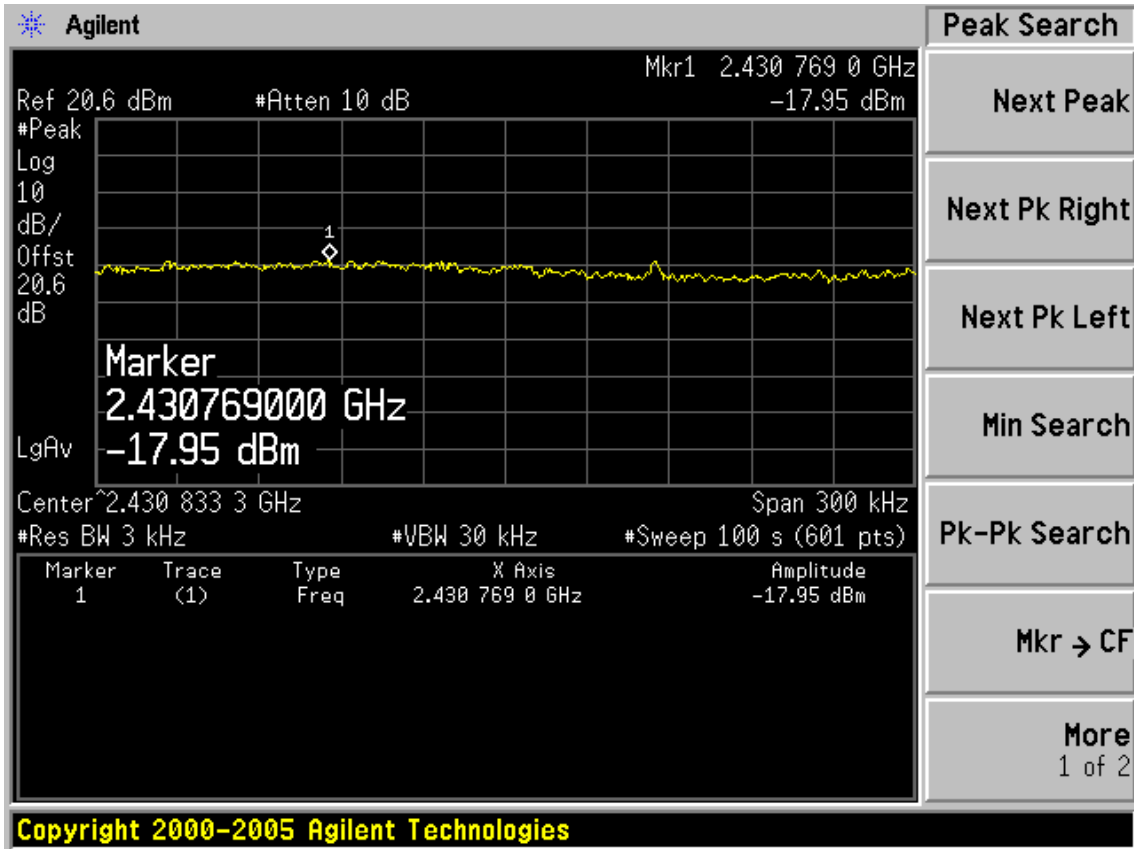


Test Mode: IEEE 802.11n HT40 TX

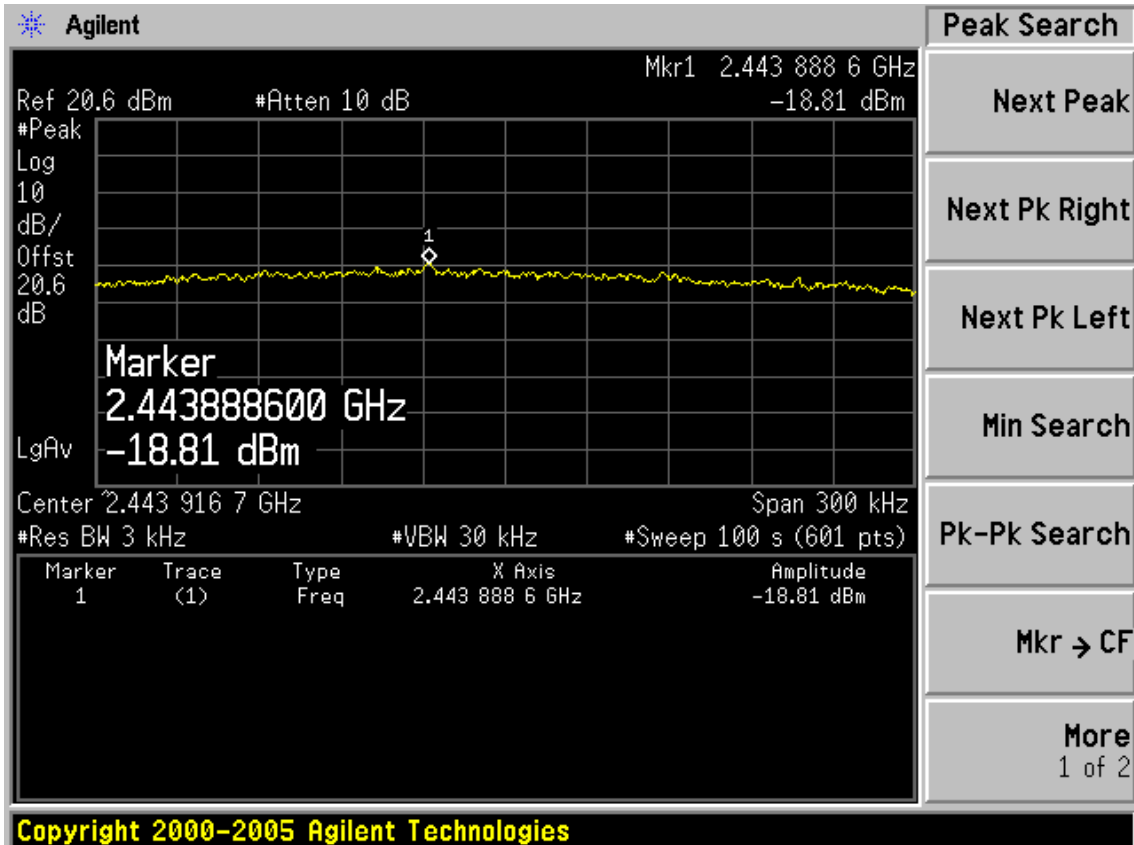
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



10. ANTENNA REQUIREMENT

10.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are MIMO 3X3 dipole antennas and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the antenna is 3dBi.

11.MPE ESTIMATION

11.1.Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Frequency(MHz)	Power density (mW/ cm ²)	Averaging time(minutes)
2412	1	30
2437	1	30
2462	1	30

Note: F= Frequency in MHz

11.2.2, Estimation Result

Mode	CH	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	Antenna Gain (dBi)	Antenna Gain(linear)	MPE (mW/ cm ²)
11b	1	2412	17.43	55.3	3	2.00	0.022
	6	2437	18.32	67.9	3	2.00	0.027
	11	2462	17.67	58.5	3	2.00	0.023
11g	1	2412	20.43	110.4	3	2.00	0.044
	6	2437	22.49	177.4	3	2.00	0.071
	11	2462	20.96	124.7	3	2.00	0.049
11n HT20	1	2412	25.02	317.7	3	2.00	0.126
	6	2437	26.86	485.3	3	2.00	0.193
	11	2462	25.38	345.1	3	2.00	0.137
11n HT40	1	2422	17.81	60.4	3	2.00	0.024
	4	2437	23.86	243.2	3	2.00	0.097
	7	2452	17.62	57.8	3	2.00	0.023

Note: The estimation distance is 20cm

Remark :This a MIMO device,for 11b/g mode,we choose the chain which has the maximum power to estimate,for 11n mode,We use the total chain power to estimate.

12. DEVIATION TO TEST SPECIFICATIONS

[NONE]