



FCC ID: WWMDN4210DV1

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Proware Technologies Co., Ltd.

Wireless High Gain USB Adapter

Model No.: PW-DN4210D

FCC ID: WWMDN4210DV1

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Date of Test : Jun.28~Jul.03, 2011
Date of Report : Jul.05, 2011

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TEST REPORT CERTIFICATION

Applicant : Proware Technologies Co., Ltd.
Manufacturer : Proware Technologies Co., Ltd.
EUT Description : Wireless High Gain USB Adapter
FCC ID : WWMDN4210DV1
(A) MODEL NO. : PW-DN4210D
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : DC 5V
(D) TEST VOLTAGE : DC 5V From PC Input, AC 120/60Hz

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 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 : Jun.28~ Jul.03, 2011 Report of date: Jul.05, 2011

Prepared by : Blove Ye Reviewer by : Sunny Lu
Blove Ye / Assistant Sunny Lu / Senior Assistant



Approved & Authorized Signer : 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	:	Wireless High Gain USB Adapter
Model Number	:	PW-DN4210D
FCC ID	:	WWMDN4210DV1
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	:	IEEE 802.11b: 18.02dBm IEEE 802.11g: 22.34dBm IEEE 802.11n HT20: 21.98dBm IEEE 802.11n HT40: 20.80dBm
Antenna and Gain	:	One PCB antenna (Only used for Receive), One Dipole Antenna (Used for Receive and Transmit), 2.12dBi gain for Dipole antenna.
Applicant	:	Proware Technologies Co., Ltd. 2nd F1 East Wing, South Section, Factory Building 24, Science & Technology Park, Shennan Rd, Nanshan District, Shenzhen
Manufacturer	:	Proware Technologies Co., Ltd. 2nd F1 East Wing, South Section, Factory Building 24, Science & Technology Park, Shennan Rd, Nanshan District, Shenzhen
Date of Test	:	Jun.28~Jul.03, 2011
Date of Receipt	:	Jun.27, 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

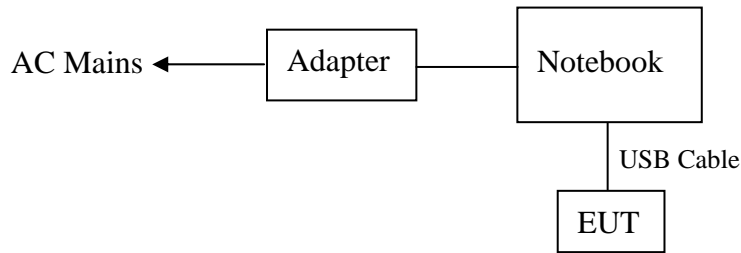
Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.3. Tested Supporting System Details

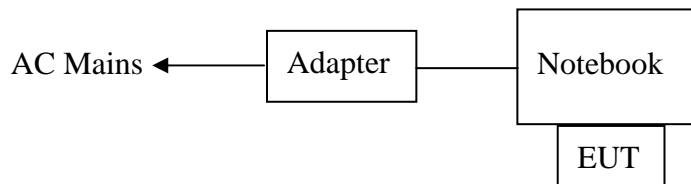
No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Notebook	N/A	DELL	PP09S	N/A	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: R41108
Power Cord: Unshielded, Detachable, 1.8m Power Adapter: Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachable, 4.0m(Bond one ferrite core)						

2.4. Block diagram of connection between the EUT and simulators

USB Line:



No USB Line:



Note: This product will be connected to computer USB port with 1m line USB cable or direct connected to USB port of computer, and according exploratory test when connected to computer with USB cable will have worse radiated spurious emissions, so the below final spurious emissions test was chose with USB cable.

(EUT: Wireless High Gain USB Adapter)

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)

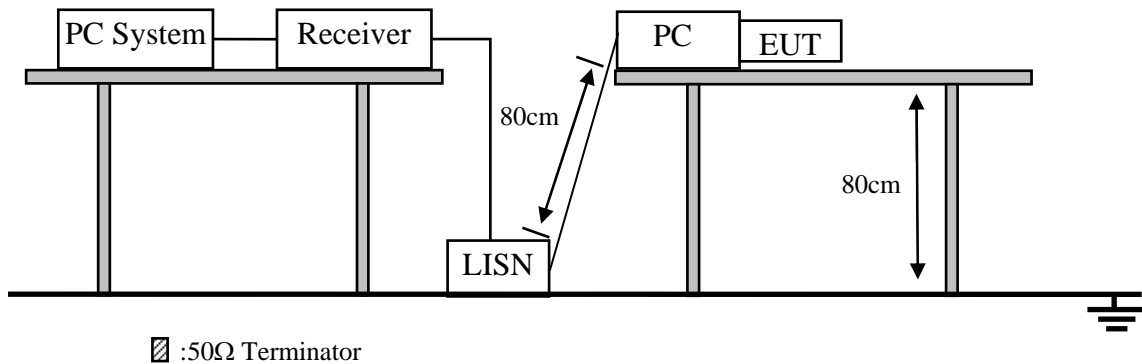
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.2 dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.6 dB(30~200MHz, Polarize: H)
	3.7 dB(30~200MHz, Polarize: V)
	4.0 dB(200M~1GHz, Polarize: H)
	3.7 dB(200M~1GHz, Polarize: V)
Uncertainty for 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.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 11	1 Year
4.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 11	1 Year
5.	Coaxial Switch	Anritsu	MP59B	M55367	May.08, 11	1 Year
6.	Passive Probe	Rohde & Schwarz	ESH2-Z3	299.7810.52	May.08, 11	1 Year
7.	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. Wireless High Gain USB Adapter (EUT)

Model Number : PW-DN4210D

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 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.

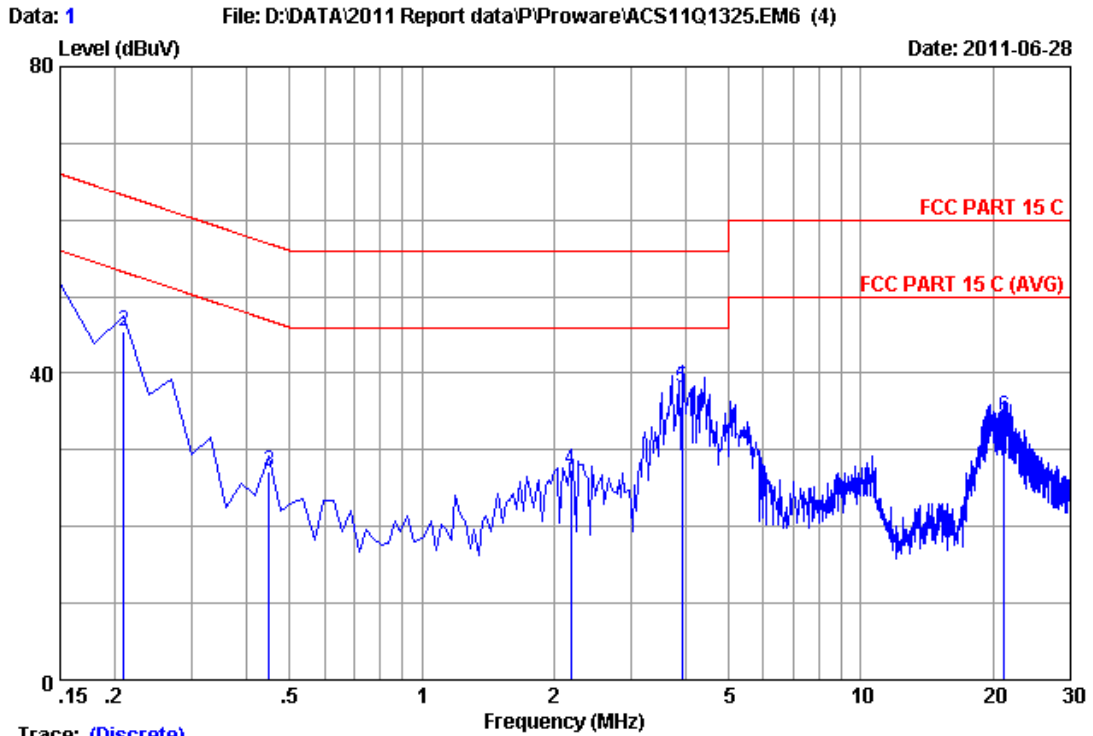
The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

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.)

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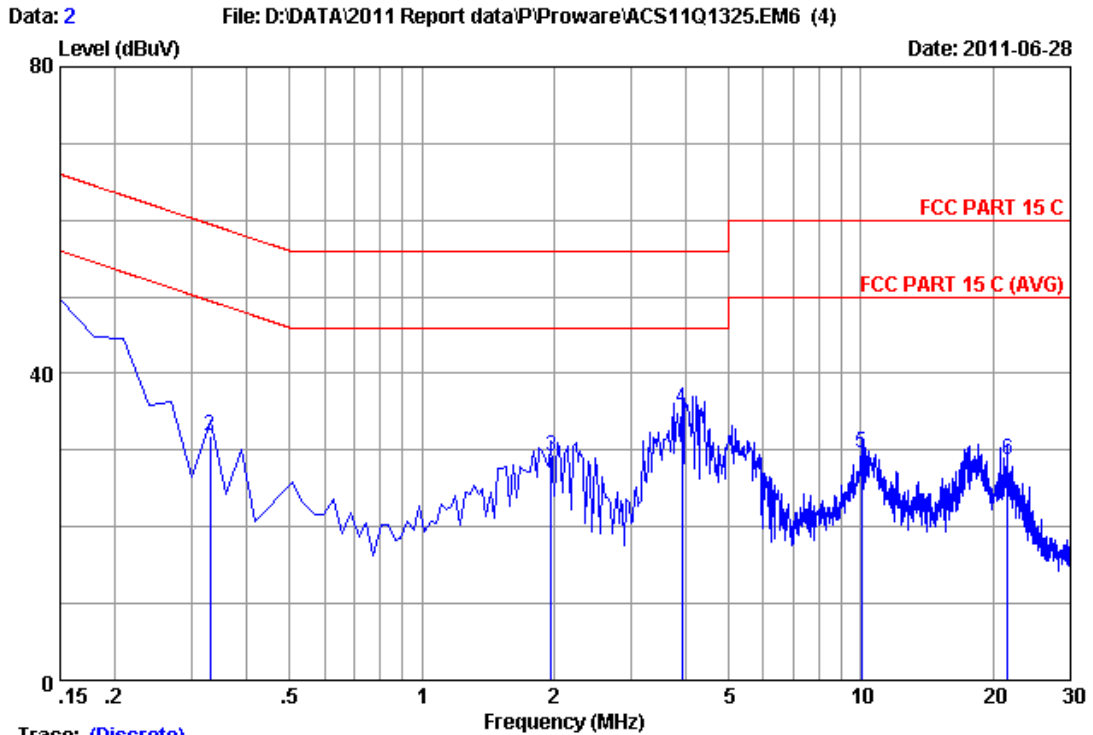
Trace: (Discrete)

Site no :1#conduction Data No :1
 Dis./Ant. :** 2011 ESH2-Z5 LINE
 Limit :FCC PART 15 C
 Env./Ins. :29.5*C/55% Engineer :Leo_Li
 EUT :Wireless High Gain USB Adapter
 Power Rating :DC 5V From PC Input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:PW-DN4210D

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.15000	0.17	9.98	38.61	48.76	66.00	17.24	QP
2	0.20970	0.17	9.98	35.33	45.48	63.22	17.74	QP
3	0.44850	0.19	9.98	17.04	27.21	56.90	29.69	QP
4	2.180	0.31	9.96	17.04	27.31	56.00	28.69	QP
5	3.911	0.35	9.94	27.72	38.01	56.00	17.99	QP
6	21.194	1.05	10.03	23.32	34.40	60.00	25.60	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.

FCC ID: WWMDN4210DV1



Trace: (Discrete)

Site no :1#conduction Data No :2
 Dis./Ant. **: 2011 ESH2-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :29.5°C/55% Engineer :Leo_Li
 EUT :Wireless High Gain USB Adapter
 Power Rating :DC 5V From PC Input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:PW-DN4210D

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.21	9.98	36.47	46.66	66.00	19.34	QP
2	0.32910	0.22	9.98	21.77	31.97	59.47	27.50	QP
3	1.971	0.27	9.96	18.98	29.21	56.00	26.79	QP
4	3.911	0.31	9.94	25.18	35.43	56.00	20.57	QP
5	10.030	0.45	9.90	19.31	29.66	60.00	30.34	QP
6	21.552	0.81	10.03	17.98	28.82	60.00	31.18	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

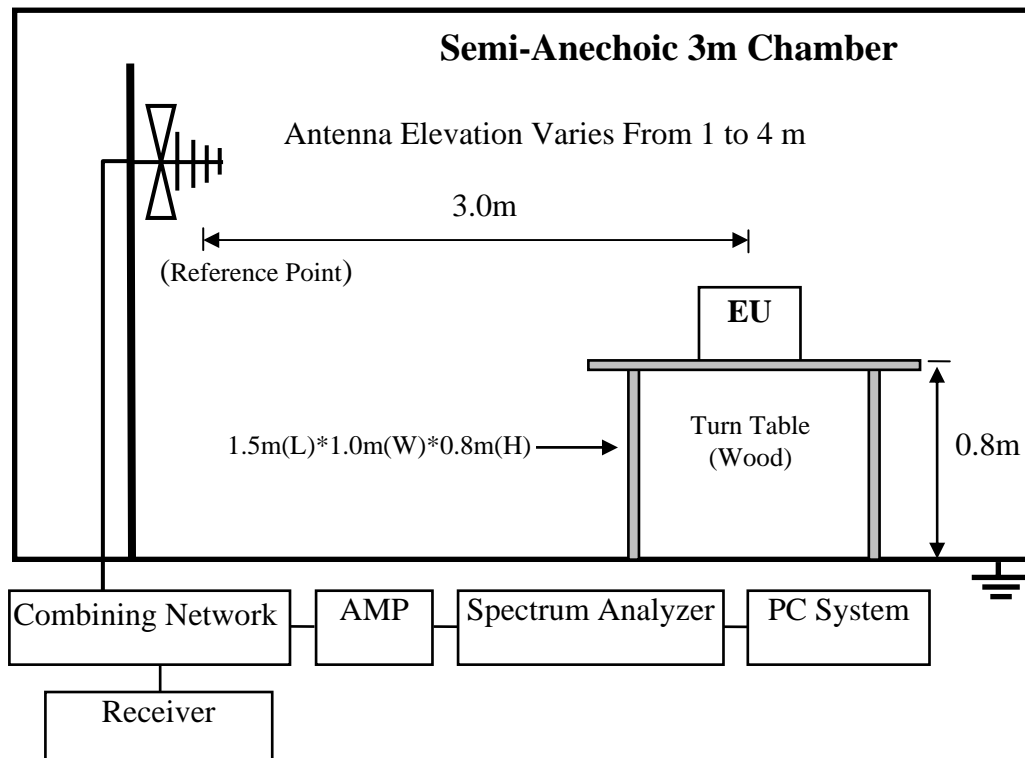
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.06,10	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 11	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 11	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 11	1 Year
5	Bilog 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

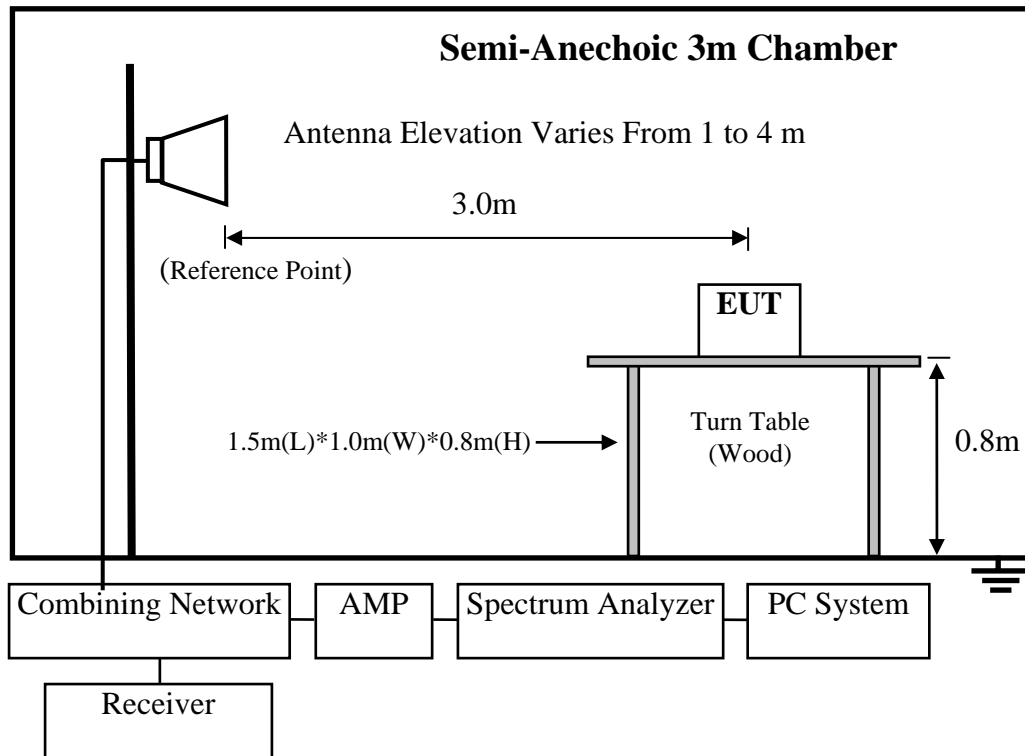
4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



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For frequency range 1GHz-25GHz



4.3. Radiated Emission Limit

4.3.1.15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Remark : (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$

(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.

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4.7. Radiated Emission Test Results

PASS.

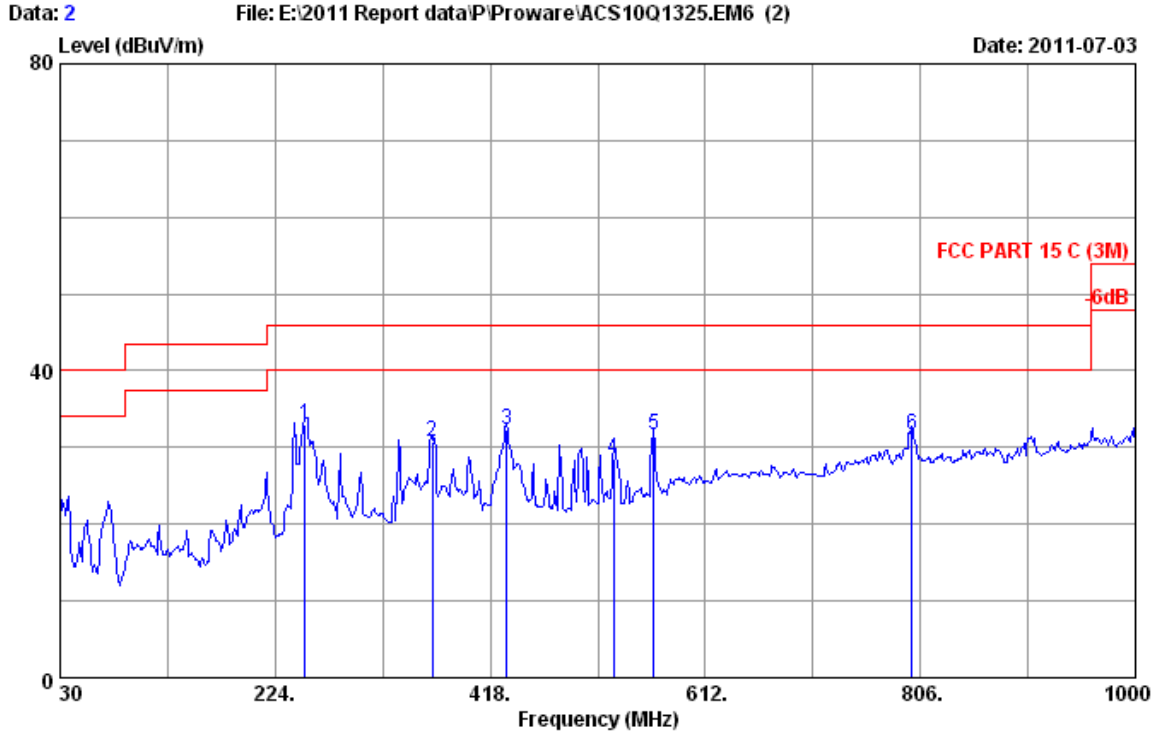
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

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

Remark: The worst case axes (Horizontal) of EUT was reported in this report.

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Frequency: 30MHz~1GHz

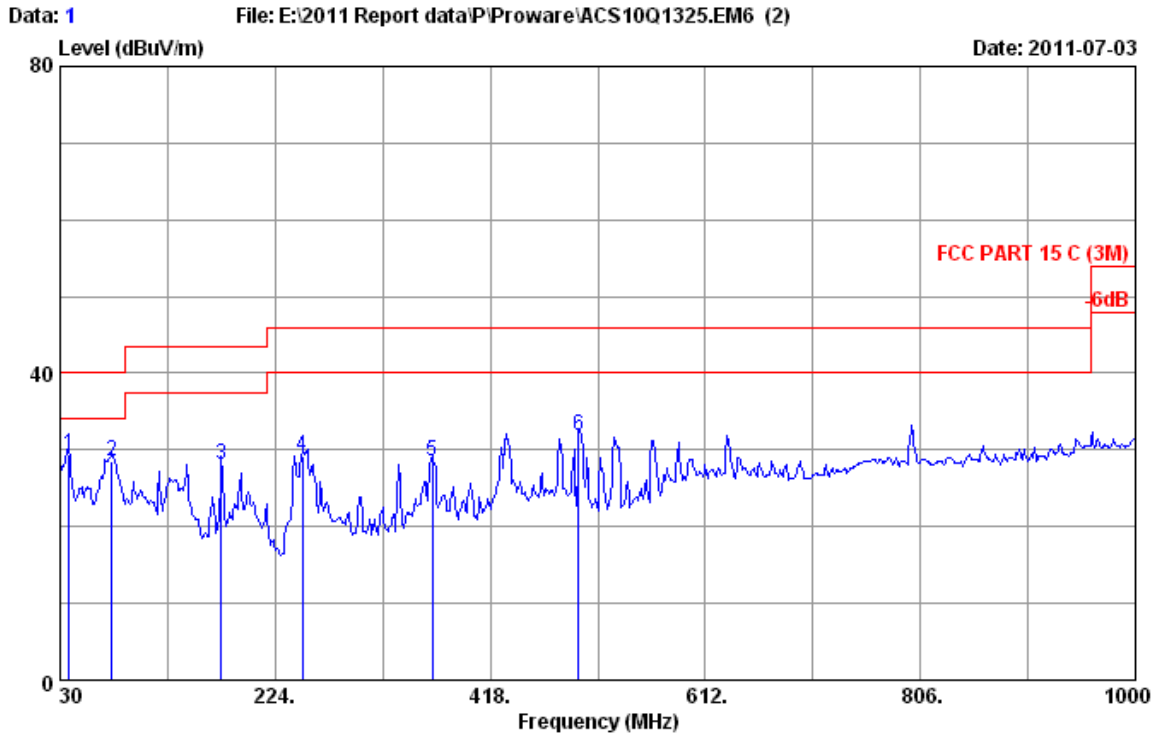


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Gary
 EUT : Wireless High Gain USB Adapter
 Power rating : DC 5V From PC input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N:PW-DN4210D

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	251.160	12.90	2.43	17.60	32.93	46.00	13.07	QP
2	365.620	15.55	3.22	11.96	30.73	46.00	15.27	QP
3	432.550	17.42	3.55	11.25	32.22	46.00	13.78	QP
4	529.550	18.30	4.15	6.05	28.50	46.00	17.50	QP
5	565.440	19.61	4.32	7.70	31.63	46.00	14.37	QP
6	798.240	22.02	5.49	4.14	31.65	46.00	14.35	QP

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

FCC ID: WWMDN4210DV1



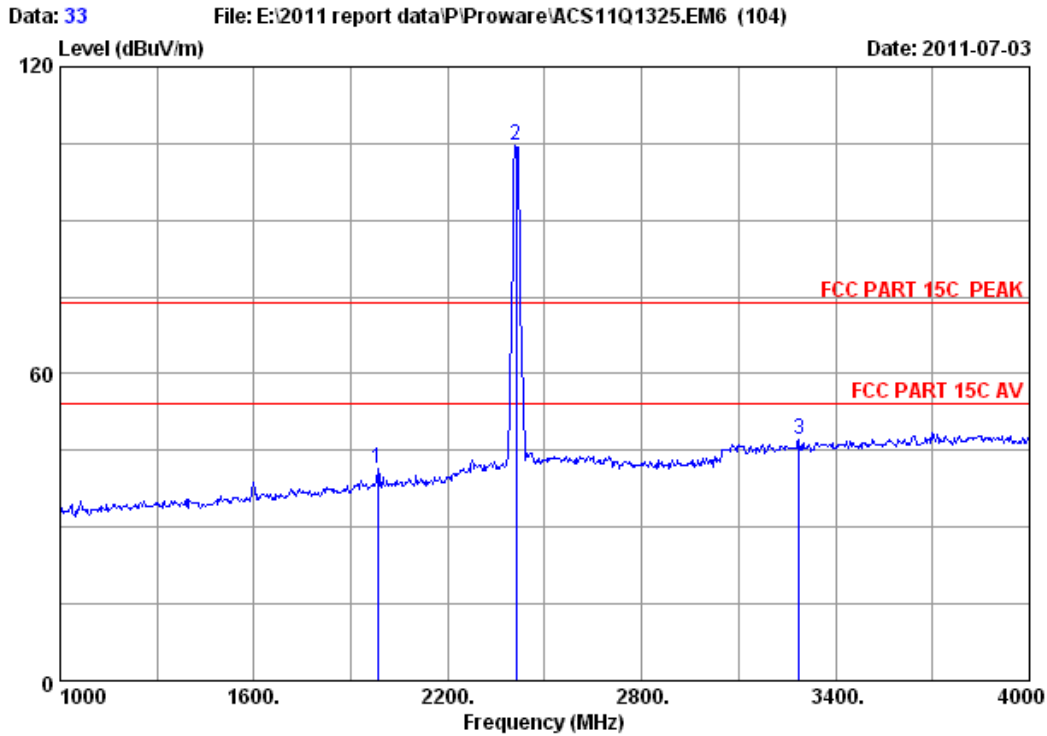
Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Gary
 EUT : Wireless High Gain USB Adapter
 Power rating : DC 5V From PC input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N:PW-DN4210D

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	37.760	15.58	0.68	13.20	29.46	40.00	10.54	QP
2	76.560	7.47	1.01	20.06	28.54	40.00	11.46	QP
3	175.500	9.65	1.66	16.85	28.16	43.50	15.34	QP
4	248.250	12.56	2.39	14.22	29.17	46.00	16.83	QP
5	365.620	15.55	3.22	9.70	28.47	46.00	17.53	QP
6	497.540	18.27	3.99	9.54	31.80	46.00	14.20	QP

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

FCC ID: WWMDN4210DV1

Frequency: 1GHz~18GHz



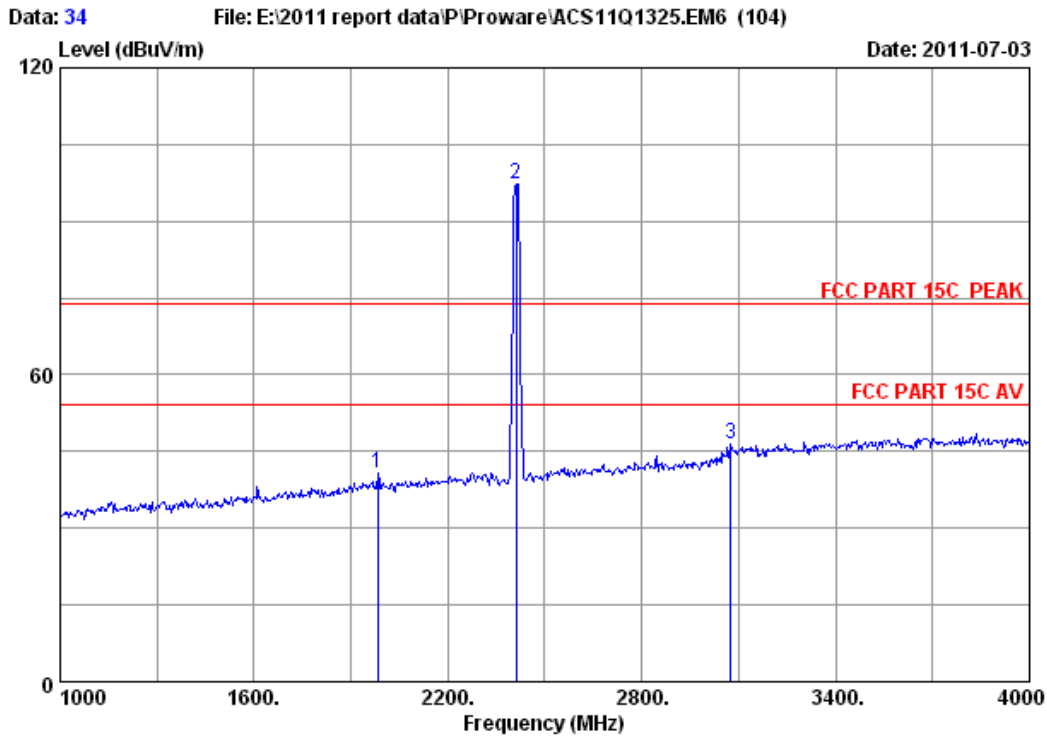
Site no. : 3m Chamber Data no. : 33
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	41.79	41.32	74.00	32.68	Peak
2	2412.000	28.48	8.60	35.95	103.47	104.60	74.00	-30.60	Peak
3	3286.000	30.97	10.26	35.79	41.79	47.23	74.00	26.77	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.

FCC ID: WWMDN4210DV1



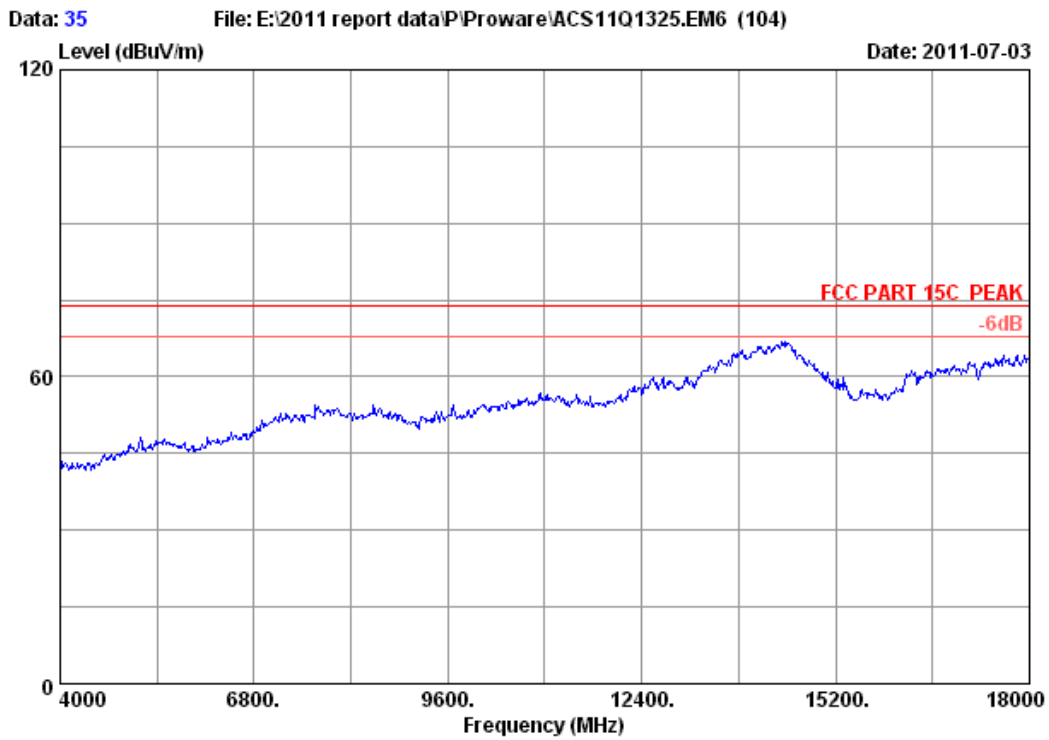
Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	41.18	40.71	74.00	33.29	Peak
2	2412.000	28.48	8.60	35.95	96.12	97.25	74.00	-23.25	Peak
3	3076.000	30.39	9.96	35.90	41.99	46.44	74.00	27.56	Peak

Remarks:

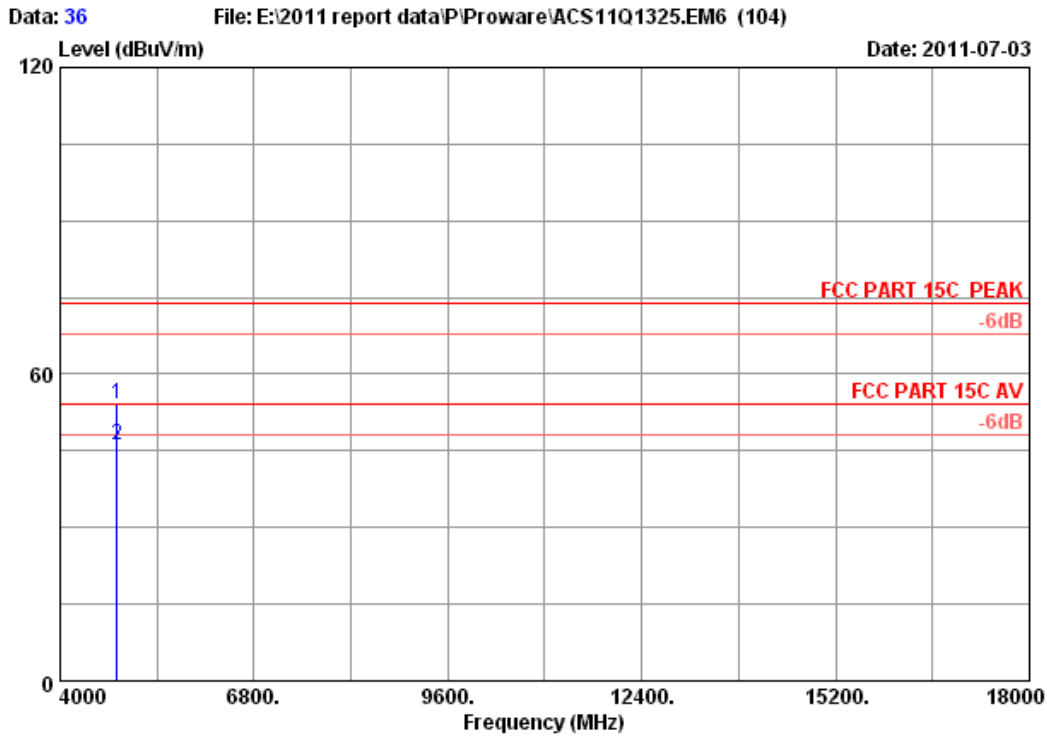
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 35
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



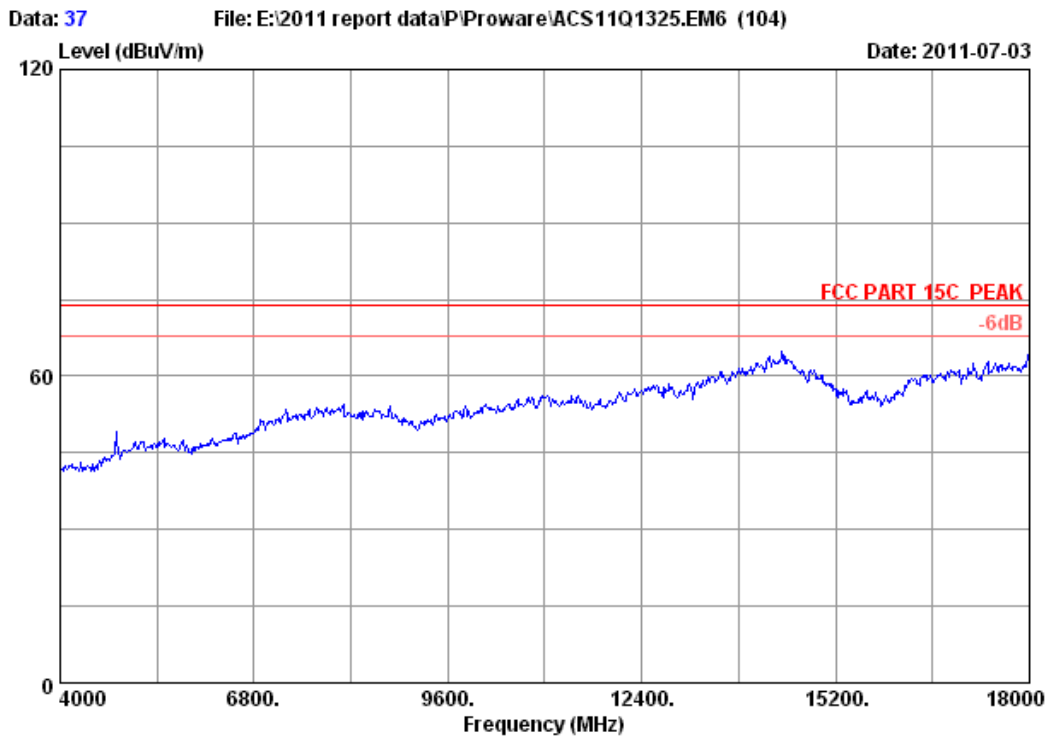
Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : PW-DN4210D

	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	42.47	54.27	74.00	19.73	Peak
2	4824.000	34.47	12.58	35.25	34.27	46.07	54.00	7.93	Average

Remarks:

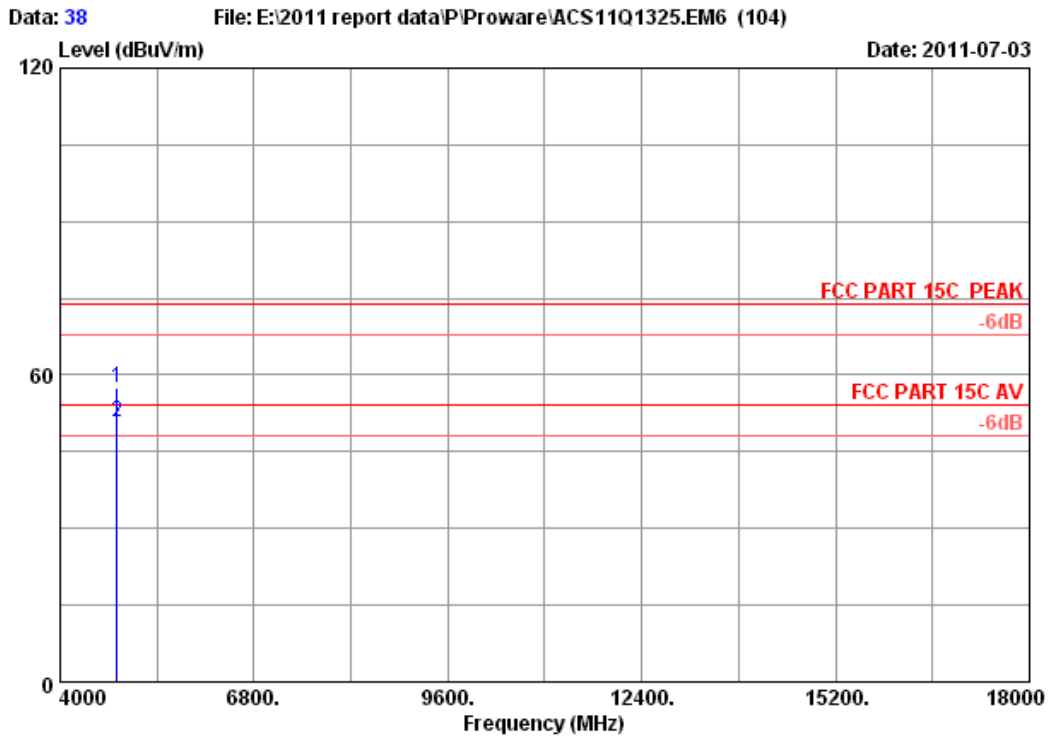
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



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 : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



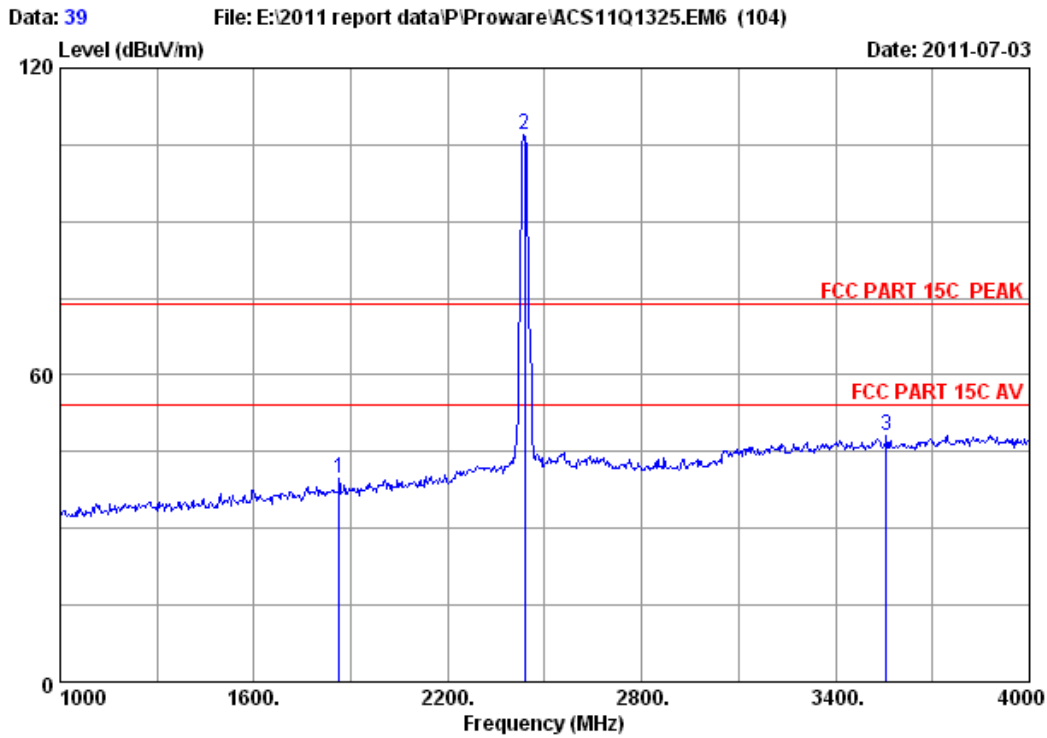
Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : PW-DN4210D

	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	4824.000	34.47	12.58	35.25	45.63	57.43	74.00	16.57	Peak
2	4824.000	34.47	12.58	35.25	38.99	50.79	54.00	3.21	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.

FCC ID: WWMDN4210DV1



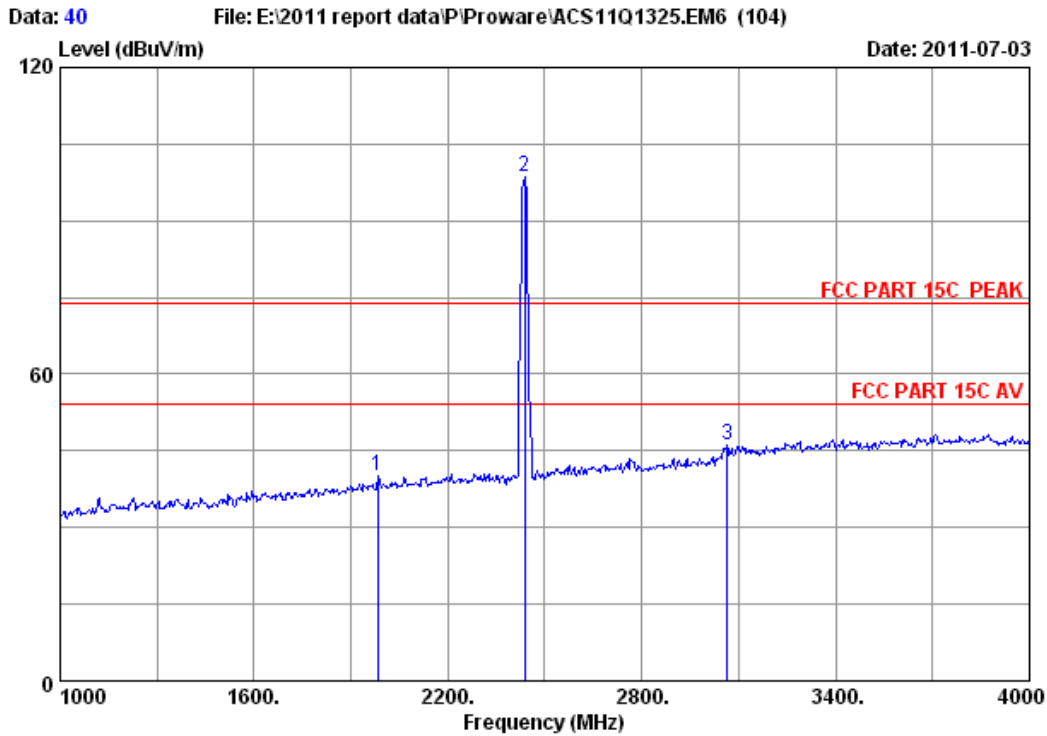
Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz
 M/N : PW-DN4210D

	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	1864.000	27.37	7.57	36.22	41.16	39.88	74.00	34.12	Peak
2	2437.000	28.53	8.60	36.06	105.94	107.01	74.00	-33.01	Peak
3	3556.000	31.67	10.62	35.58	41.51	48.22	74.00	25.78	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.

FCC ID: WWMDN4210DV1



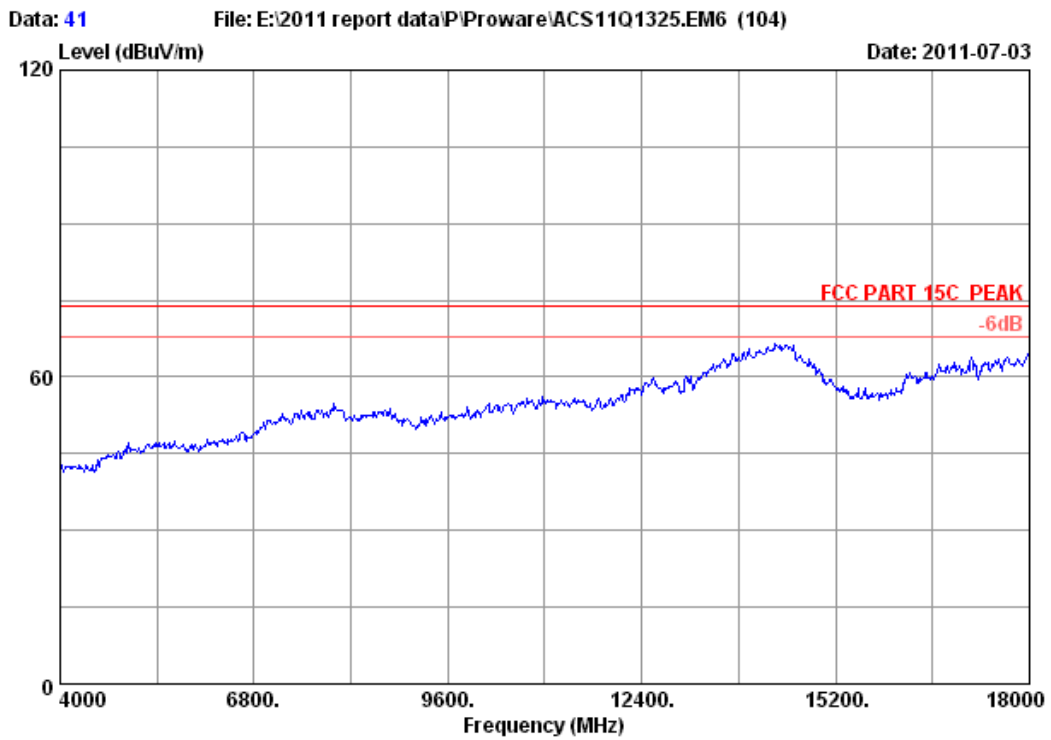
Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	40.59	40.12	74.00	33.88	Peak
2	2437.000	28.53	8.60	36.06	97.65	98.72	74.00	-24.72	Peak
3	3064.000	30.34	9.96	35.84	41.64	46.10	74.00	27.90	Peak

Remarks:

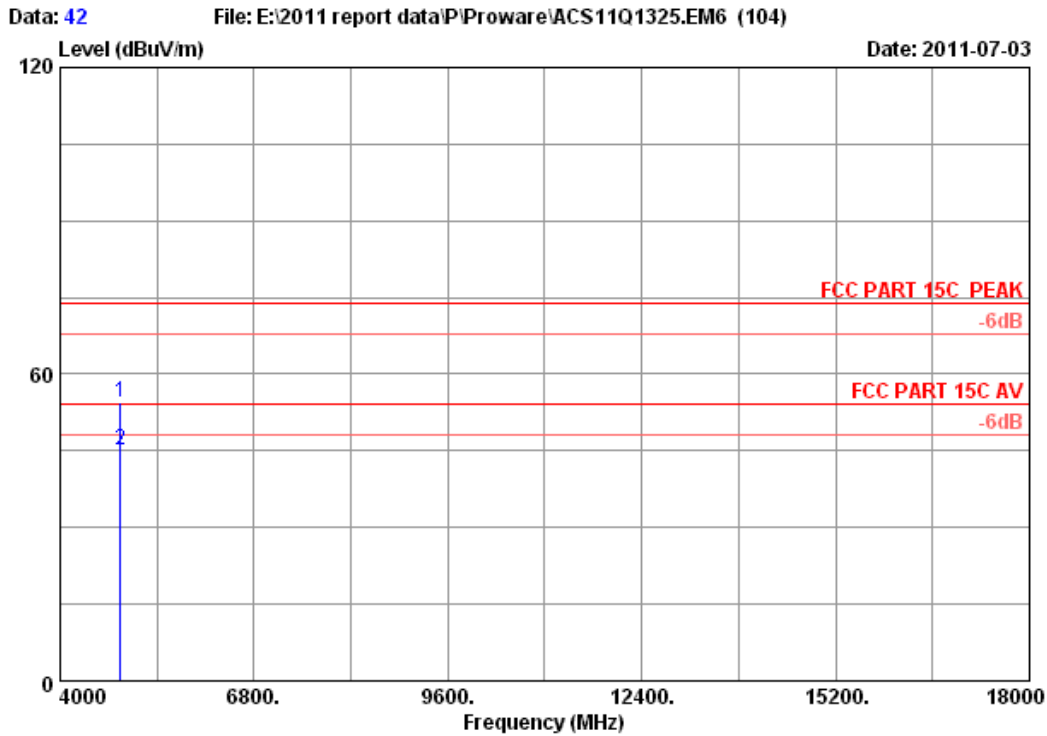
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



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	: Wireless High Gain USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11b CH6 2437MHz		
M/N	: PW-DN4210D		

FCC ID: WWMDN4210DV1



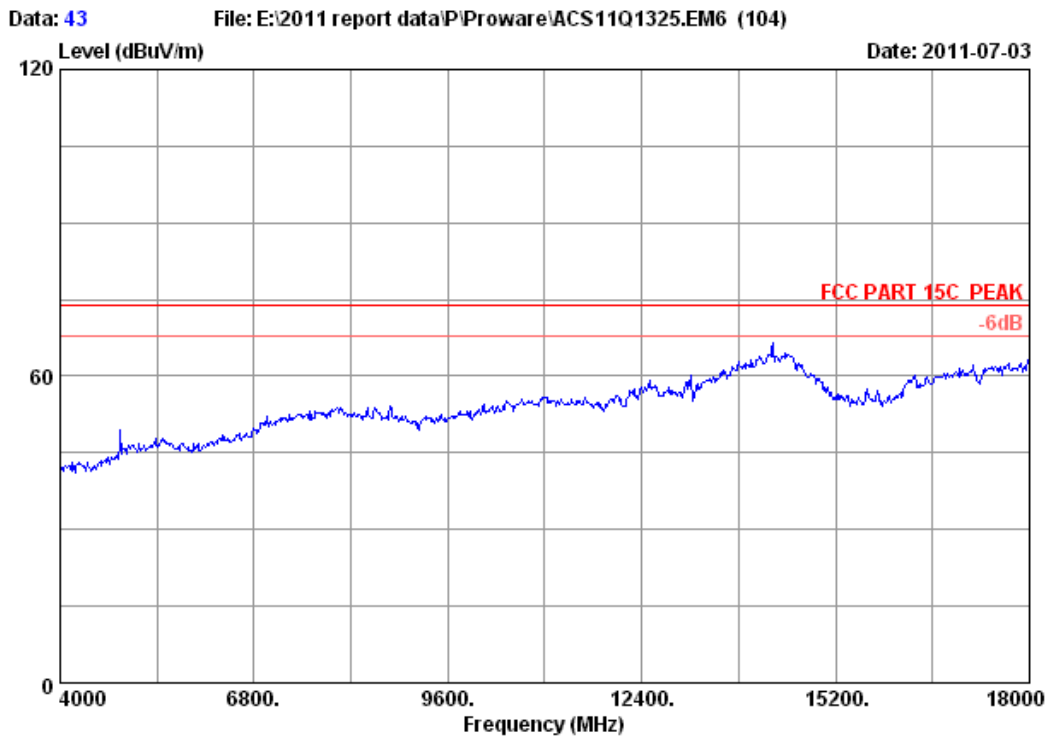
Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz
 M/N : PW-DN4210D

	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	42.67	54.32	74.00	19.68	Peak
2	4874.000	34.78	12.23	35.36	33.56	45.21	54.00	8.79	Average

Remarks:

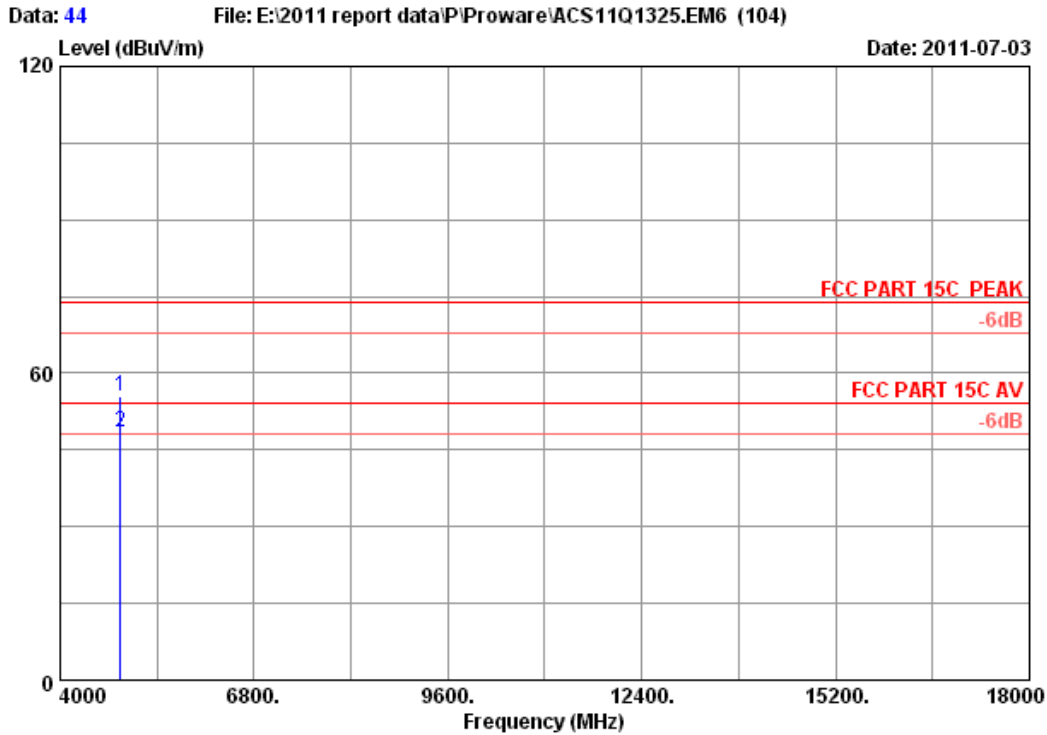
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 43
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



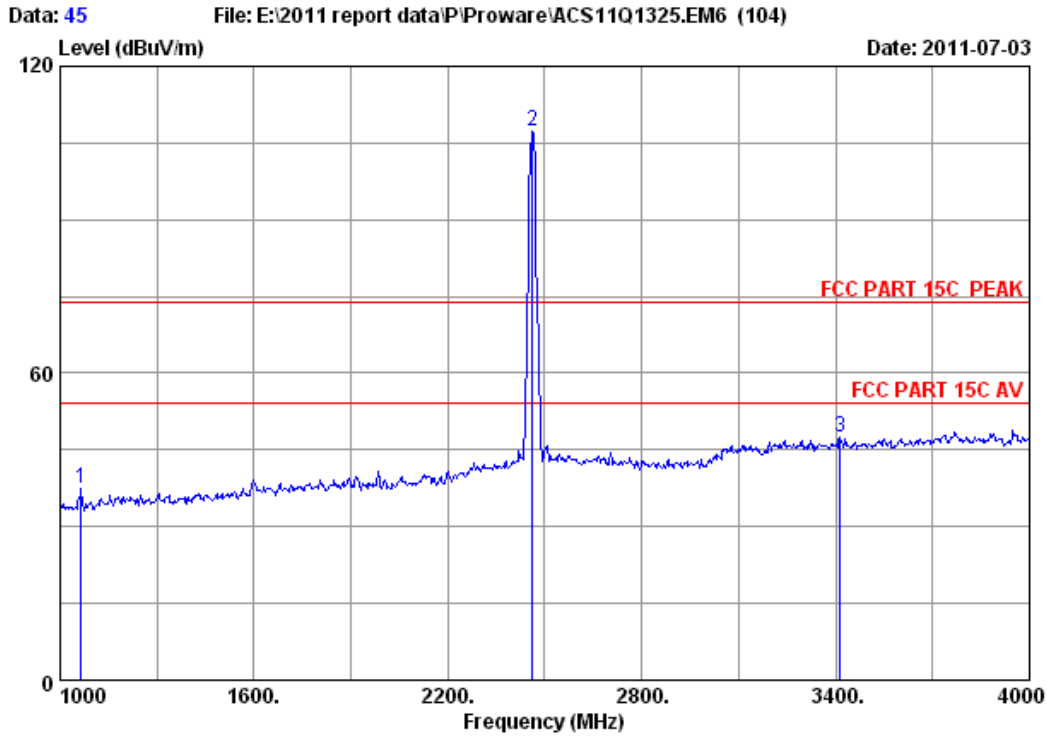
Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz
 M/N : PW-DN4210D

	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	43.84	55.49	74.00	18.51	Peak
2	4874.000	34.78	12.23	35.36	36.96	48.61	54.00	5.39	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.

FCC ID: WWMDN4210DV1



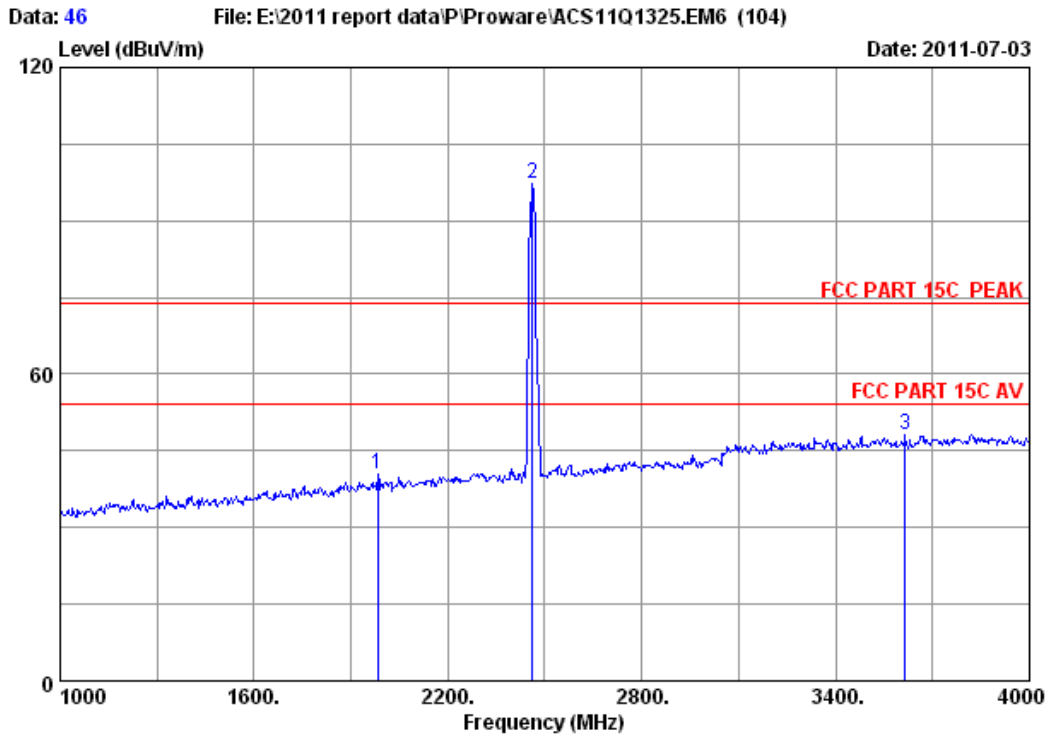
Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : PW-DN4210D

	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	1066.000	25.30	5.74	37.26	43.80	37.58	74.00	36.42	Peak
2	2462.000	28.55	8.76	36.02	106.11	107.40	74.00	-33.40	Peak
3	3415.000	31.36	10.44	35.89	41.69	47.60	74.00	26.40	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.

FCC ID: WWMDN4210DV1



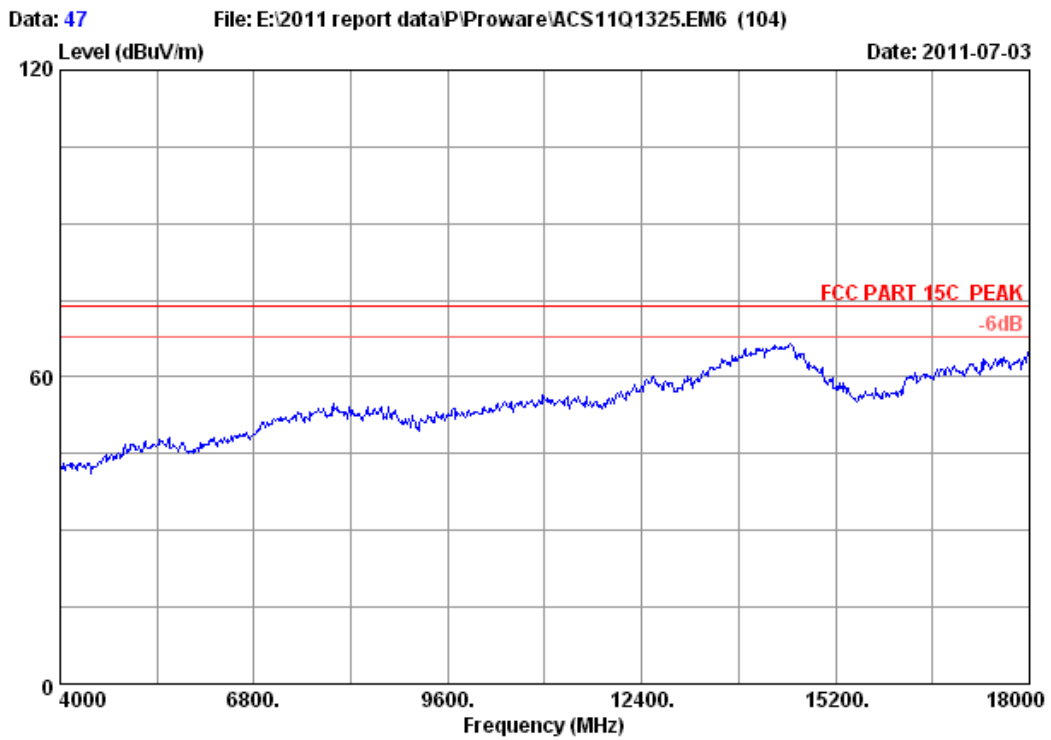
Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	41.07	40.60	74.00	33.40	Peak
2	2462.000	28.55	8.76	36.02	96.06	97.35	74.00	-23.35	Peak
3	3616.000	31.77	10.53	35.56	41.49	48.23	74.00	25.77	Peak

Remarks:

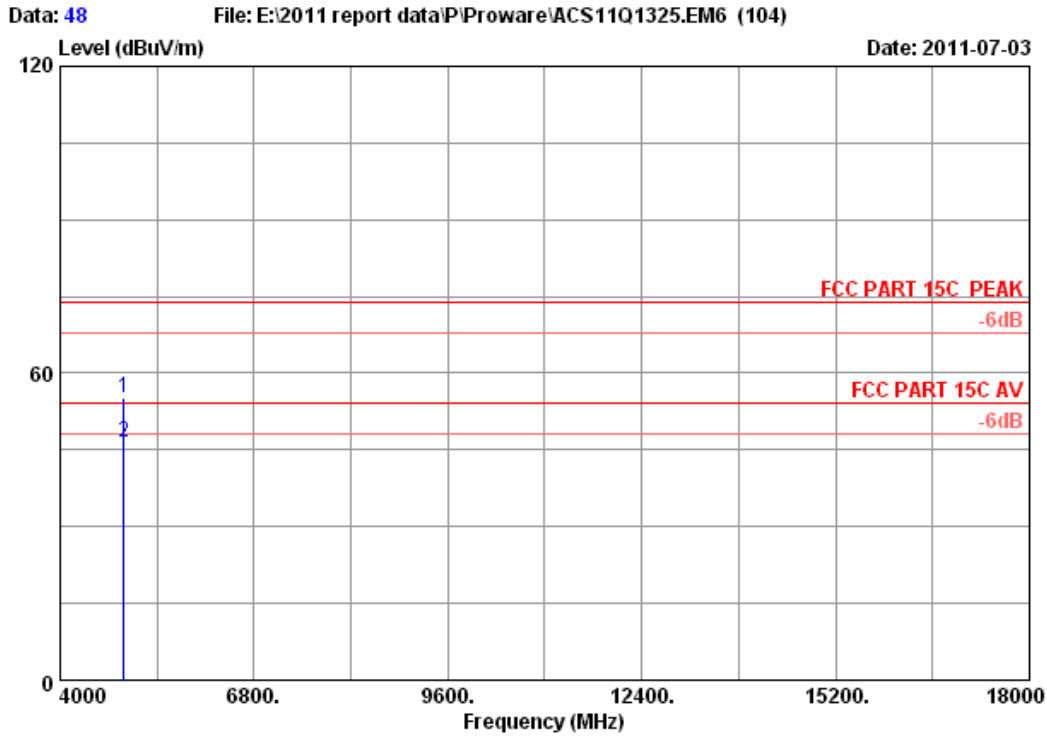
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



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 : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



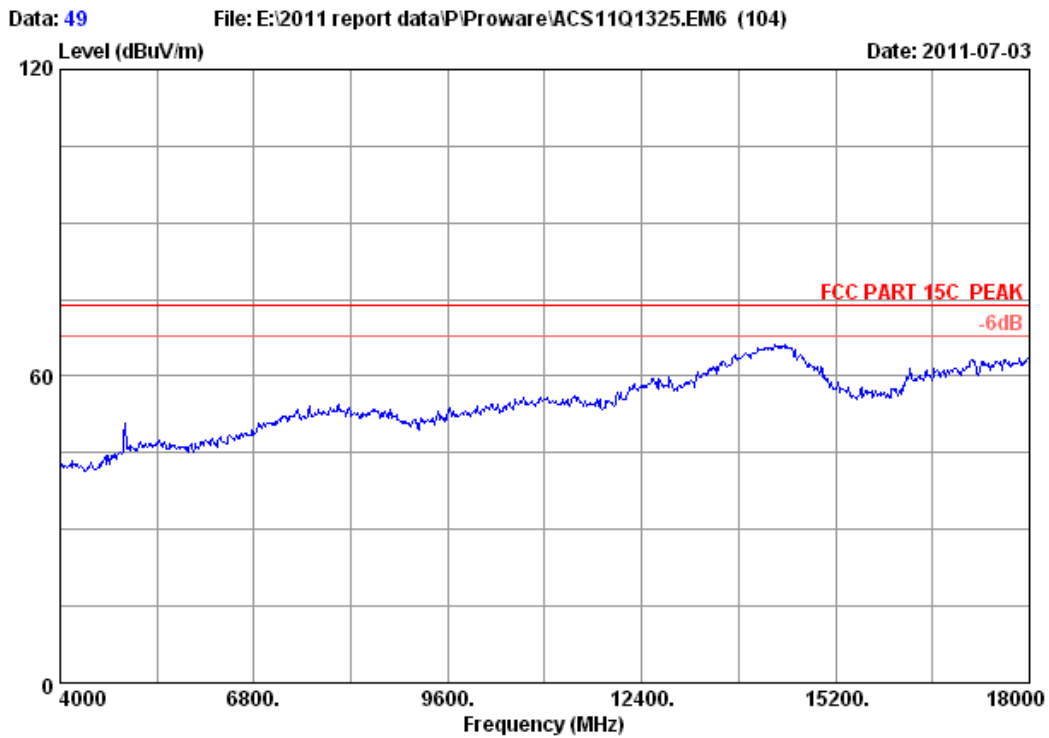
Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : PW-DN4210D

	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	42.69	55.02	74.00	18.98	Peak
2	4924.000	35.09	12.58	35.34	33.98	46.31	54.00	7.69	Average

Remarks:

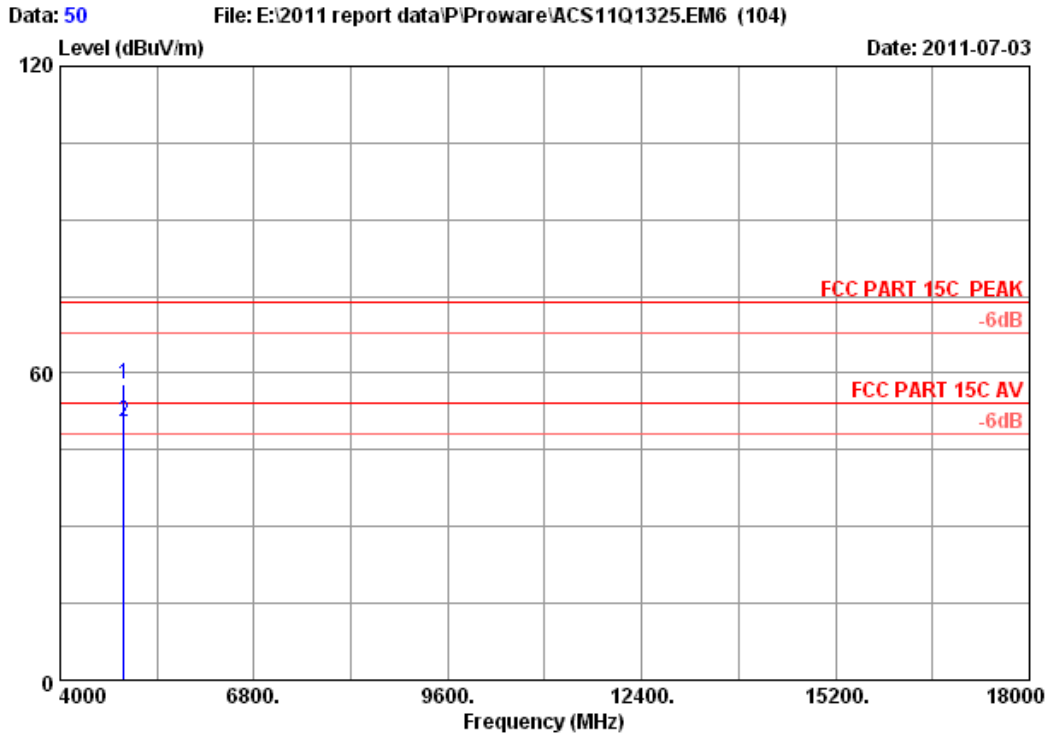
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 49
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



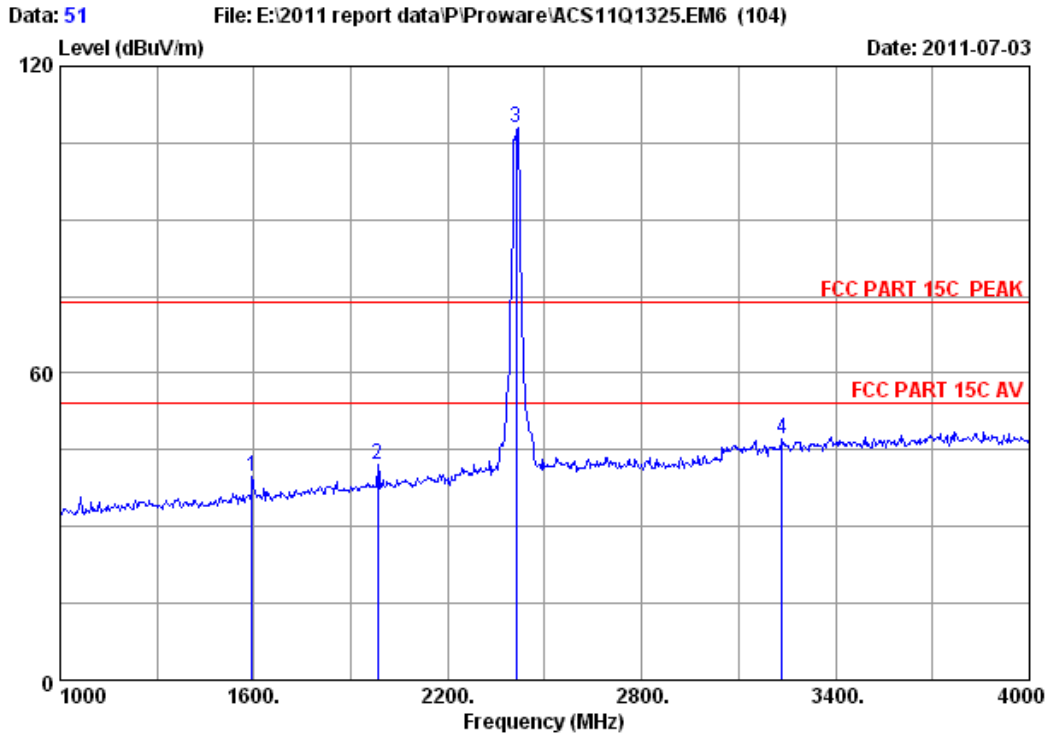
Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : PW-DN4210D

	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	45.39	57.72	74.00	16.28	Peak
2	4924.000	35.09	12.58	35.34	38.20	50.53	54.00	3.47	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.

FCC ID: WWMDN4210DV1



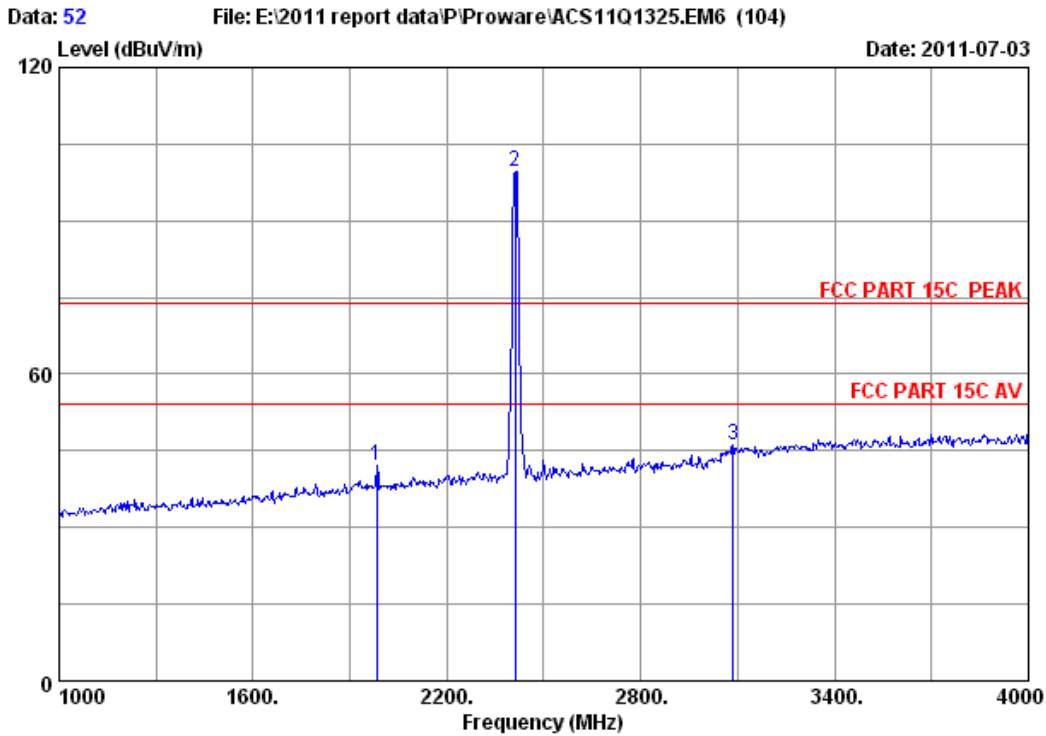
Site no. : 3m Chamber Data no. : 51
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : PW-DN4210D

	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	1594.000	26.30	7.09	36.43	42.70	39.66	74.00	34.34	Peak
2	1984.000	27.83	7.76	36.06	42.68	42.21	74.00	31.79	Peak
3	2412.000	28.48	8.60	35.95	106.96	108.09	74.00	-34.09	Peak
4	3235.000	30.83	10.04	35.77	42.10	47.20	74.00	26.80	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.

FCC ID: WWMDN4210DV1



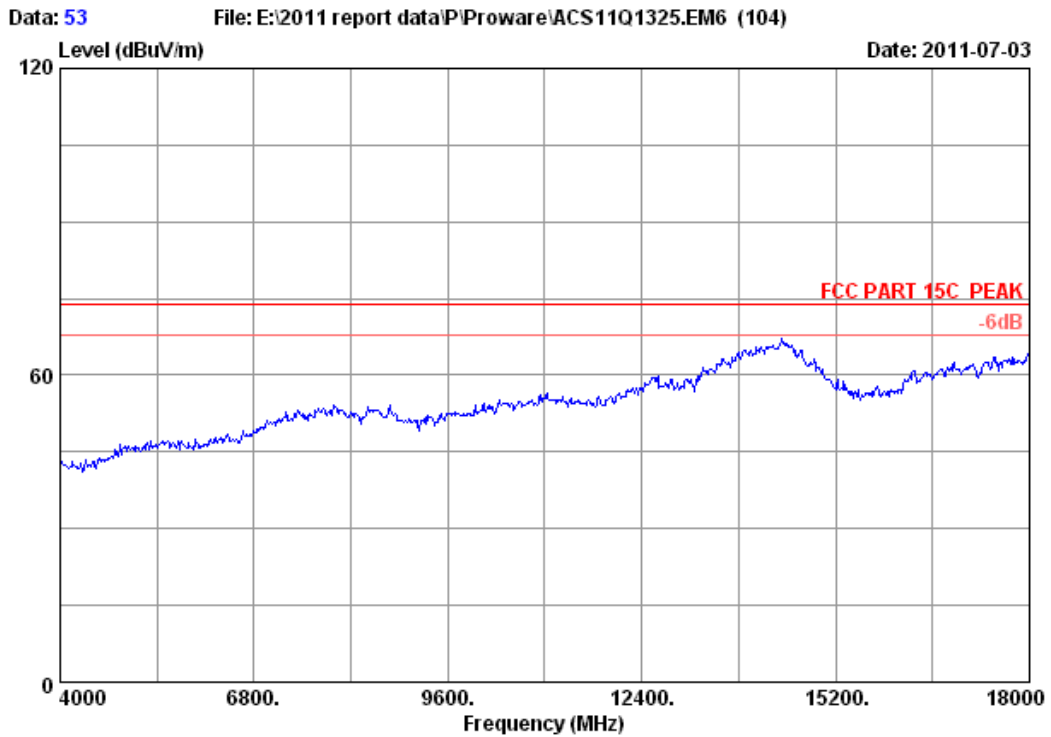
Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	42.64	42.17	74.00	31.83	Peak
2	2412.000	28.48	8.60	35.95	98.42	99.55	74.00	-25.55	Peak
3	3085.000	30.44	9.97	35.71	41.51	46.21	74.00	27.79	Peak

Remarks:

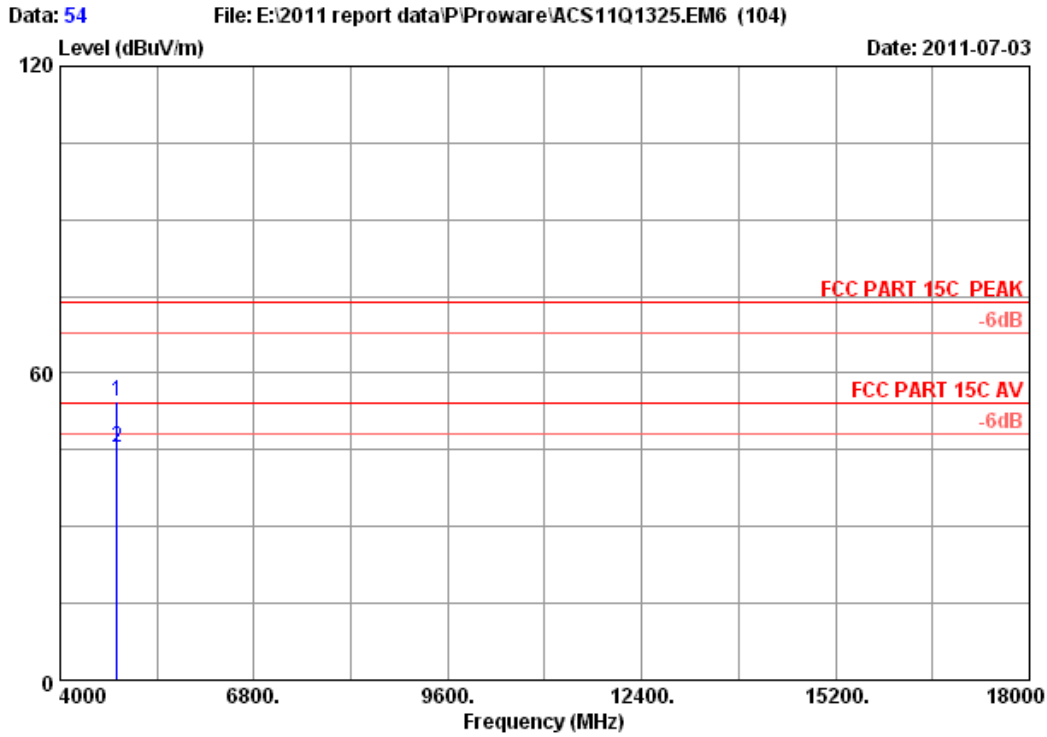
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



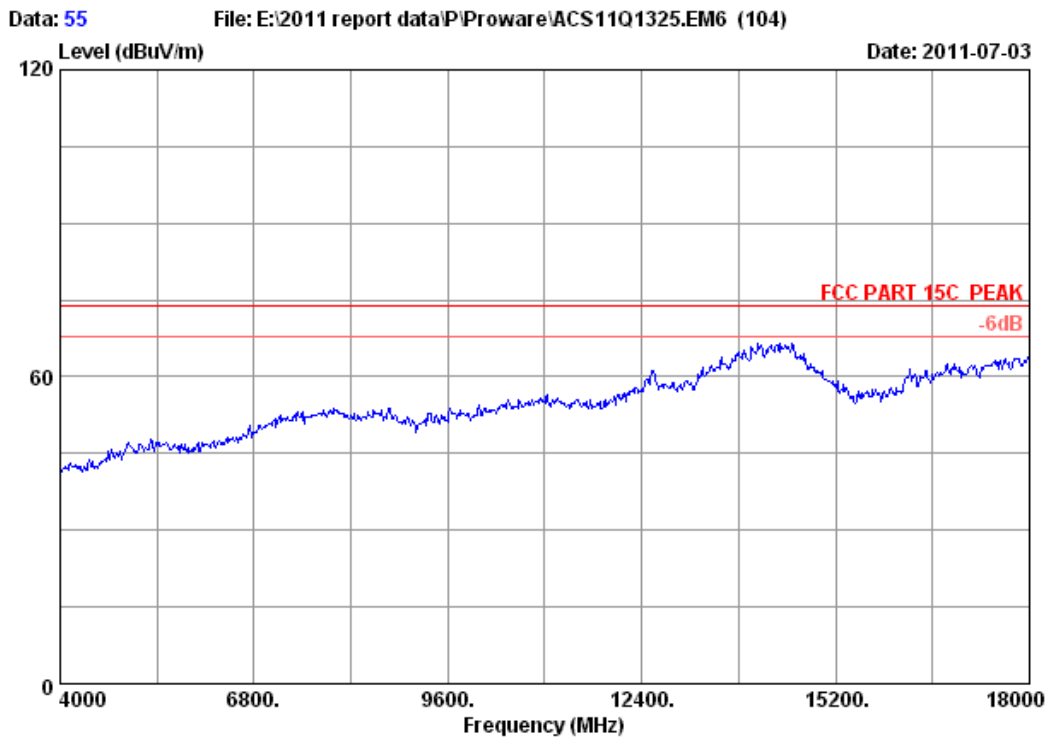
Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : PW-DN4210D

	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	42.76	54.56	74.00	19.44	Peak
2	4824.000	34.47	12.58	35.25	33.66	45.46	54.00	8.54	Average

Remarks:

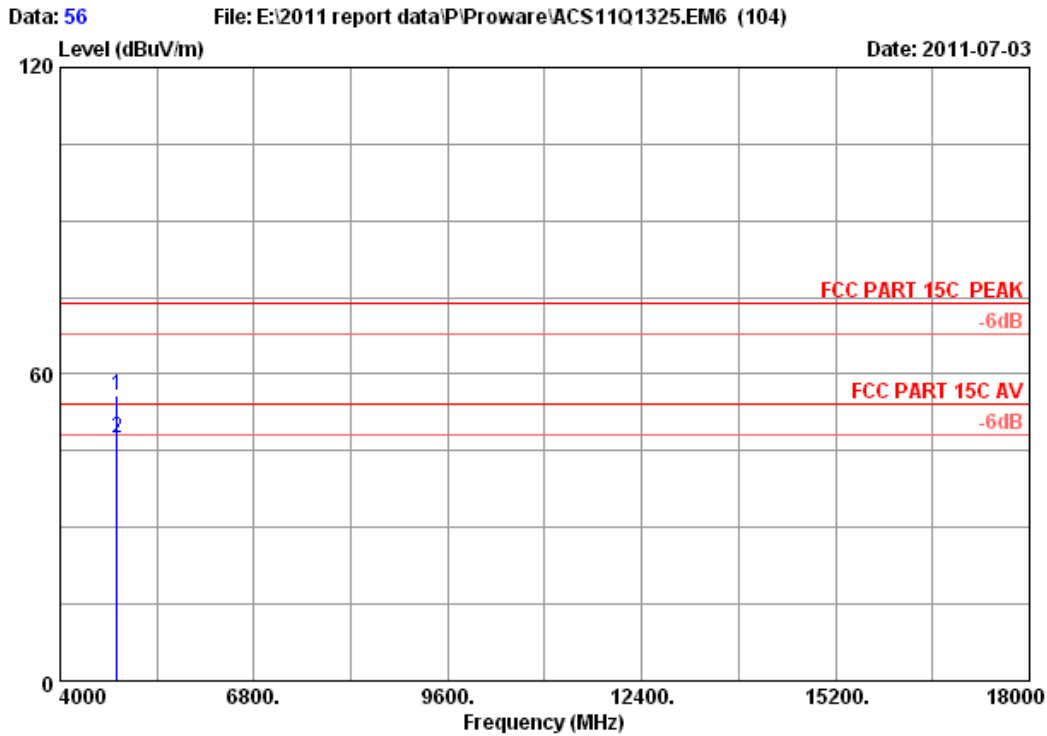
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



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 : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



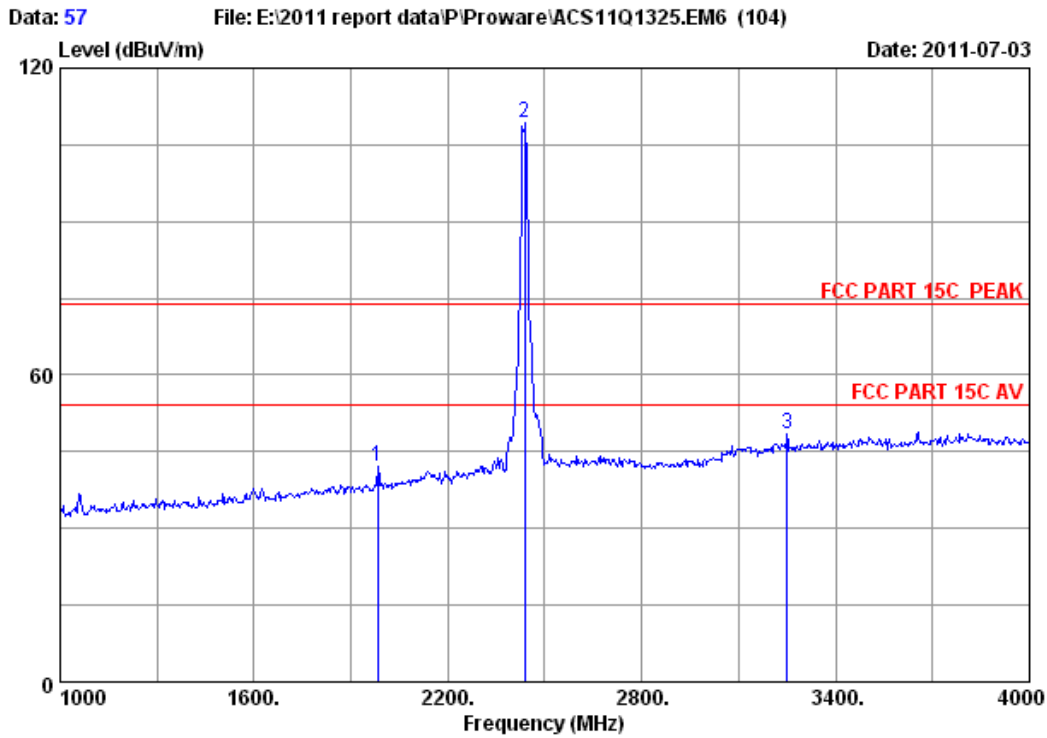
Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : PW-DN4210D

	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	44.17	55.97	74.00	18.03	Peak
2	4824.000	34.47	12.58	35.25	35.68	47.48	54.00	6.52	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.

FCC ID: WWMDN4210DV1



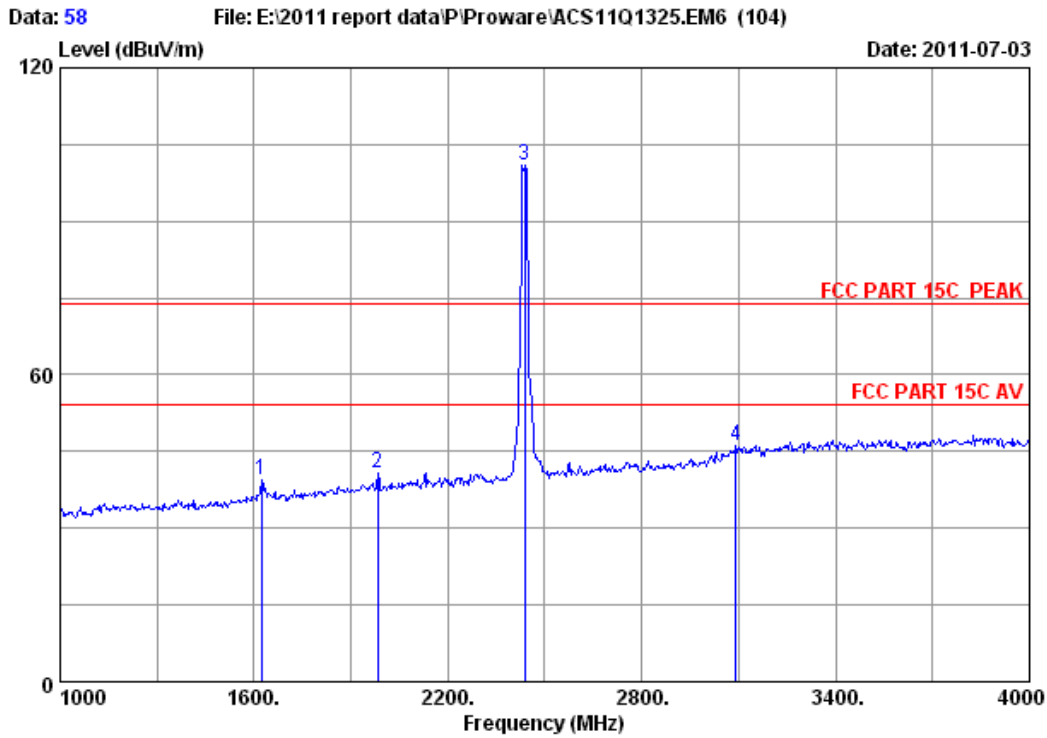
Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	42.51	42.04	74.00	31.96	Peak
2	2437.000	28.53	8.60	36.06	108.30	109.37	74.00	-35.37	Peak
3	3250.000	30.88	10.19	35.68	43.04	48.43	74.00	25.57	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.

FCC ID: WWMDN4210DV1



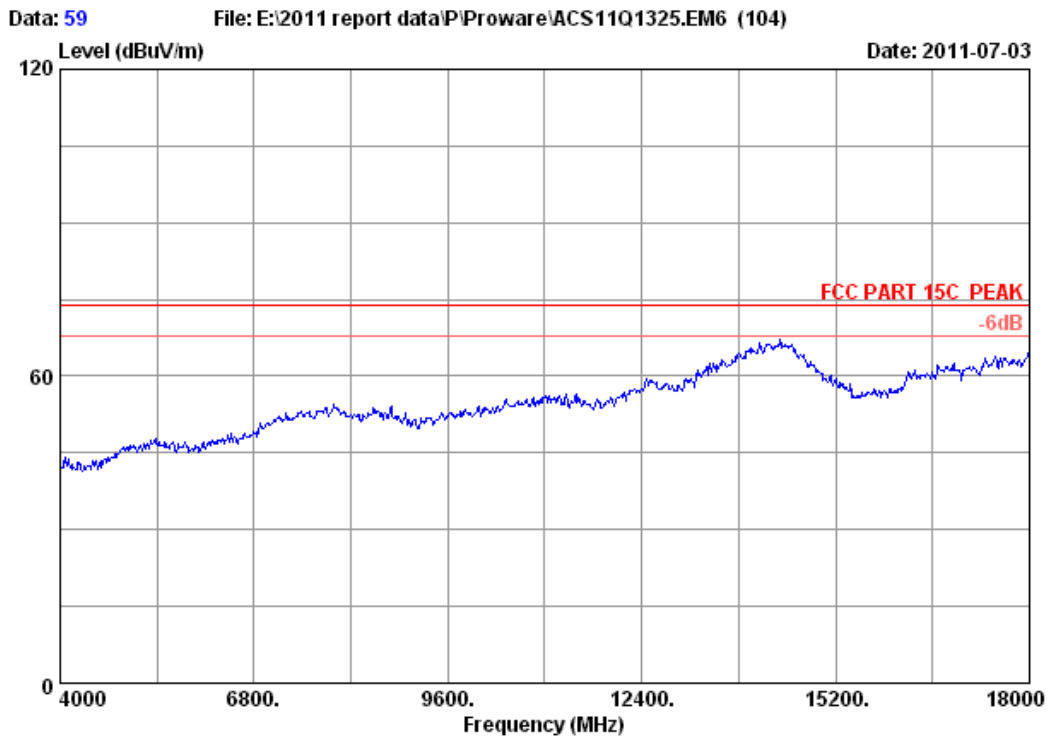
Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N : PW-DN4210D

	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	1624.000	26.43	7.15	36.26	41.99	39.31	74.00	34.69	Peak
2	1984.000	27.83	7.76	36.06	41.24	40.77	74.00	33.23	Peak
3	2437.000	28.53	8.60	36.06	99.88	100.95	74.00	-26.95	Peak
4	3091.000	30.44	9.97	35.71	41.43	46.13	74.00	27.87	Peak

Remarks:

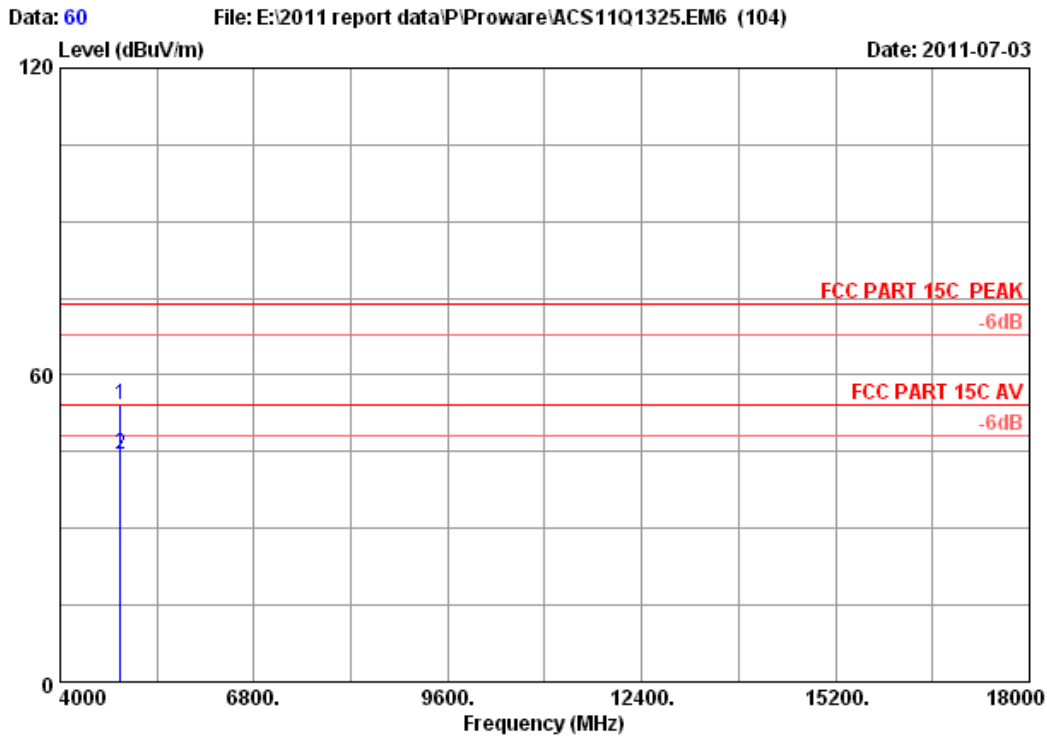
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



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 : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



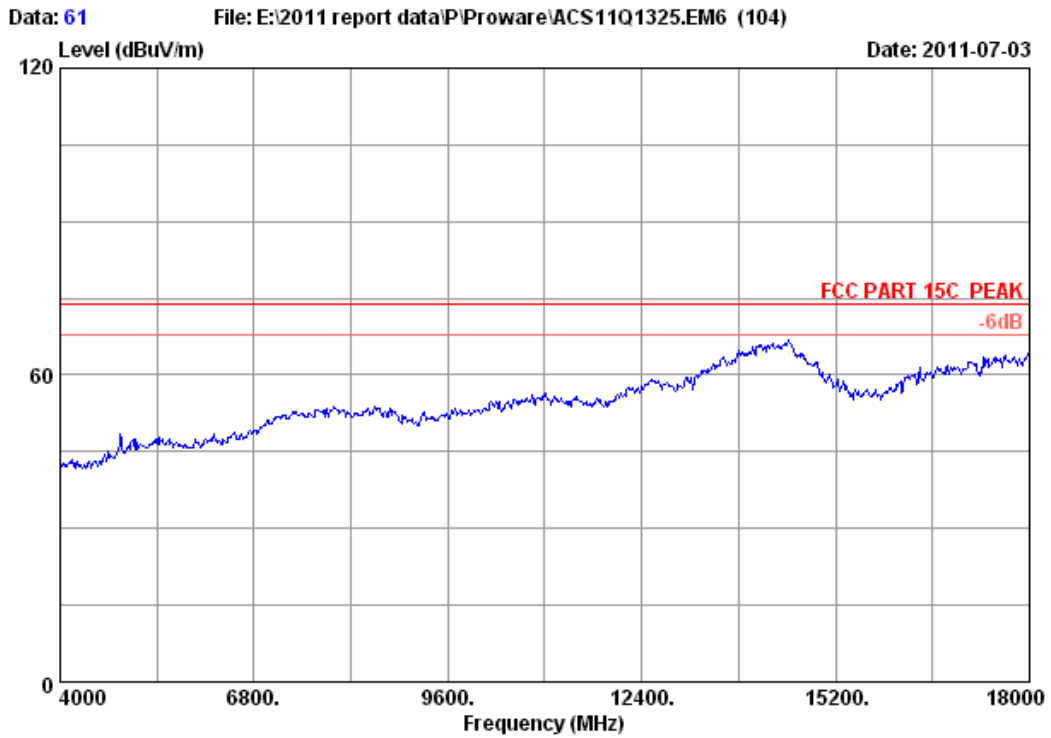
Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N : PW-DN4210D

	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	42.62	54.27	74.00	19.73	Peak
2	4874.000	34.78	12.23	35.36	32.97	44.62	54.00	9.38	Average

Remarks:

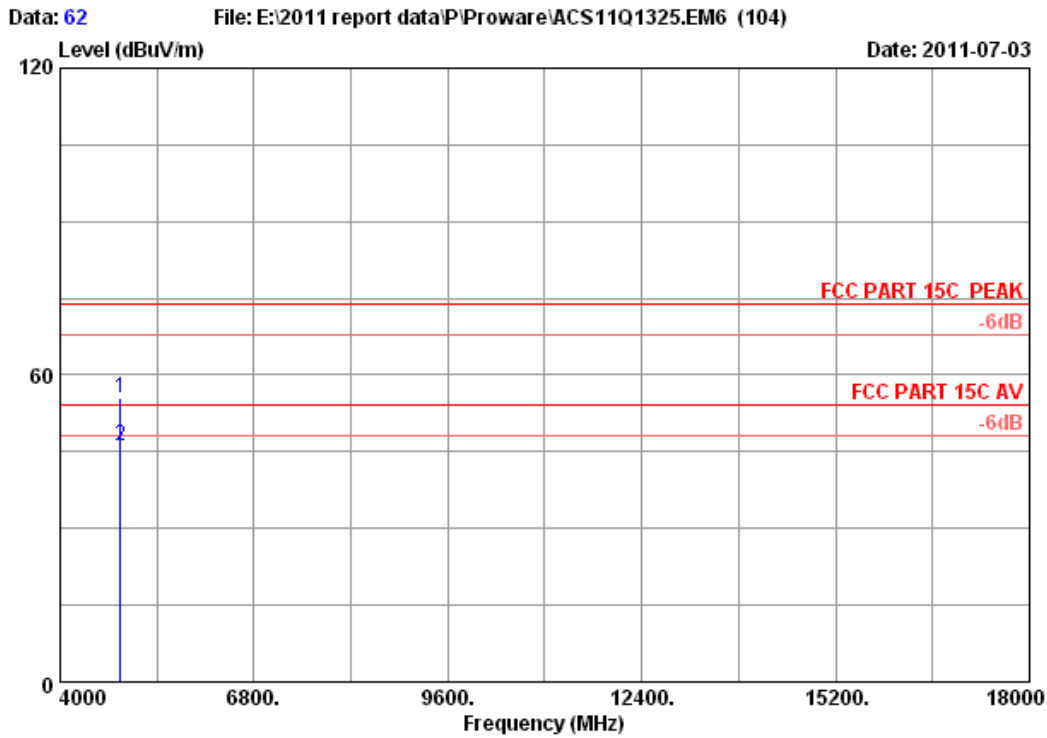
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 61
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



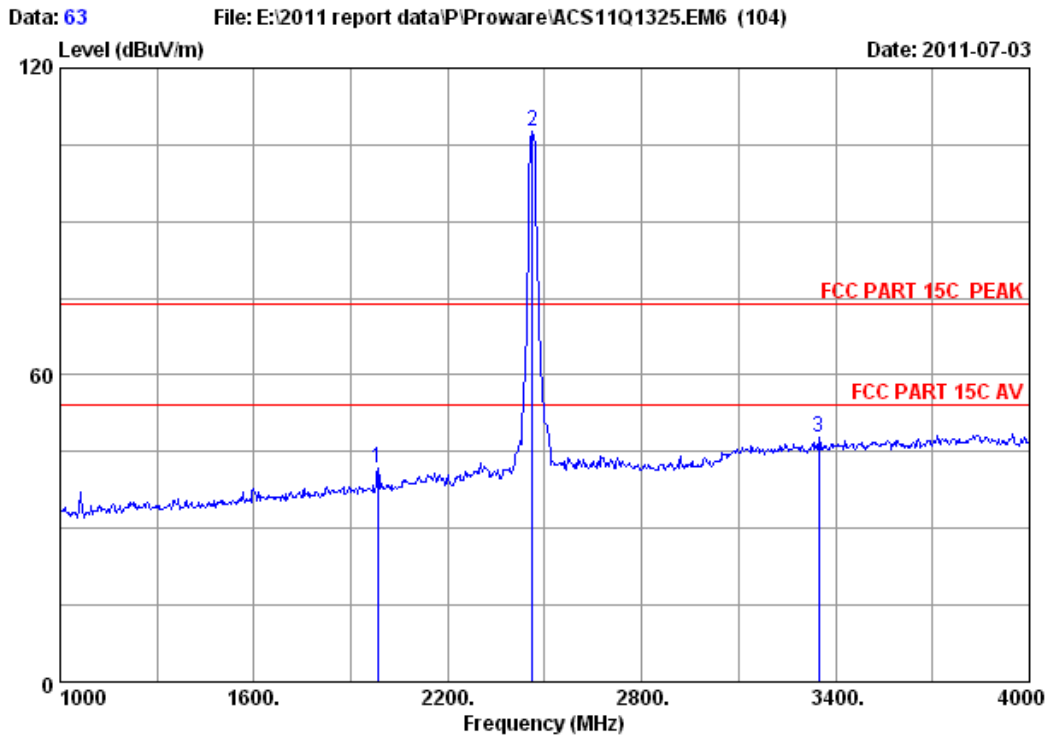
Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N : PW-DN4210D

	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	43.82	55.47	74.00	18.53	Peak
2	4874.000	34.78	12.23	35.36	34.56	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.

FCC ID: WWMDN4210DV1



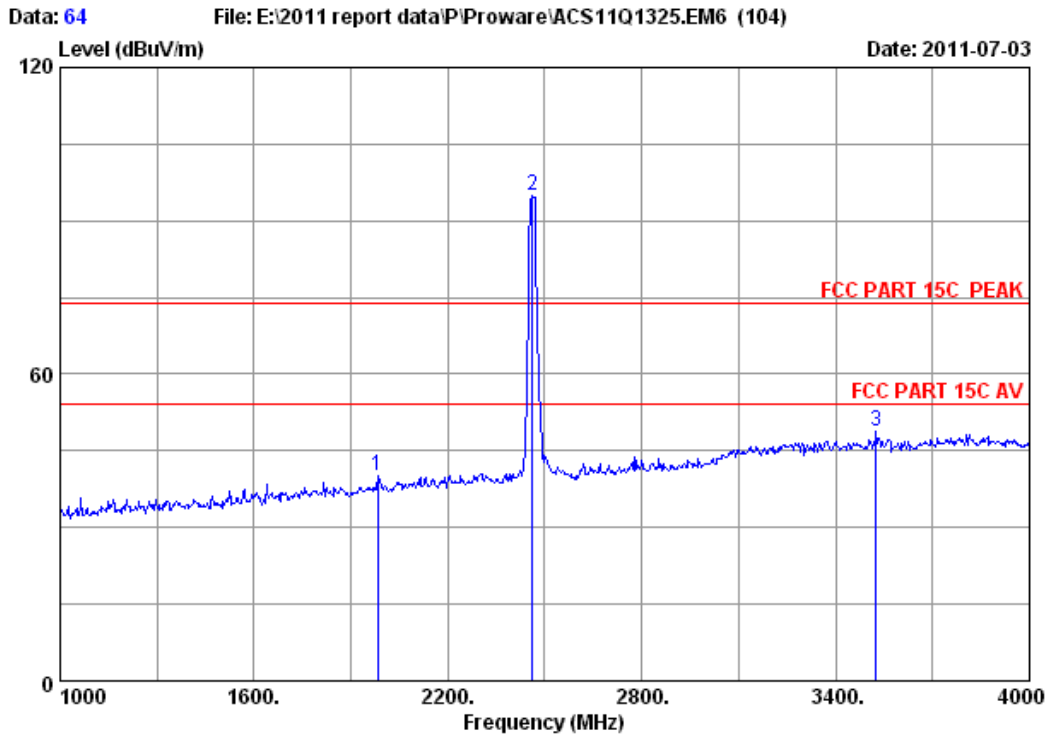
Site no. : 3m Chamber Data no. : 63
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	42.23	41.76	74.00	32.24	Peak
2	2462.000	28.55	8.76	36.02	106.45	107.74	74.00	-33.74	Peak
3	3349.000	31.17	10.33	35.75	41.89	47.64	74.00	26.36	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.

FCC ID: WWMDN4210DV1

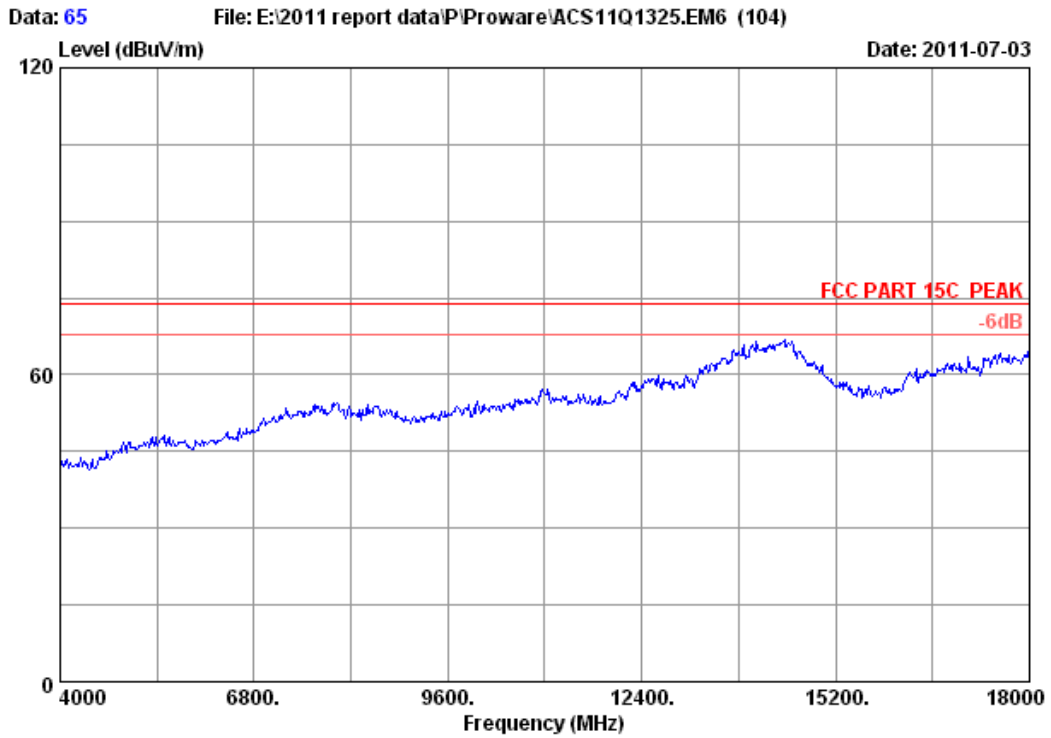


Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	40.71	40.24	74.00	33.76	Peak
2	2462.000	28.55	8.76	36.02	93.72	95.01	74.00	-21.01	Peak
3	3526.000	31.65	10.56	35.63	42.30	48.88	74.00	25.12	Peak

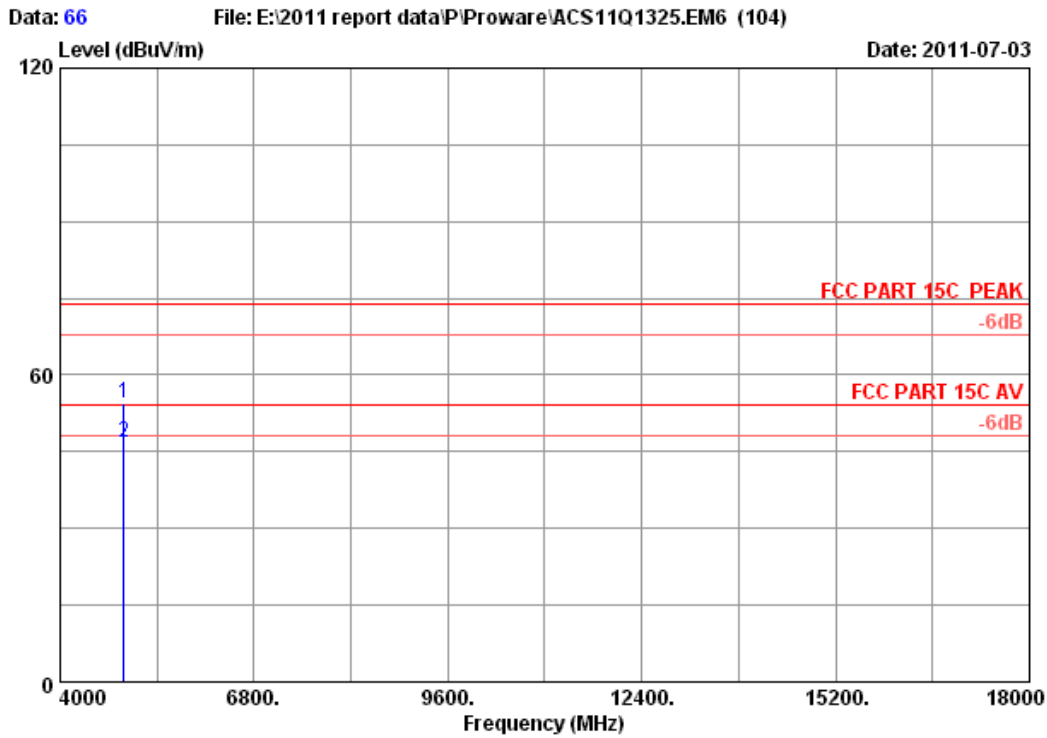
Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



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 : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



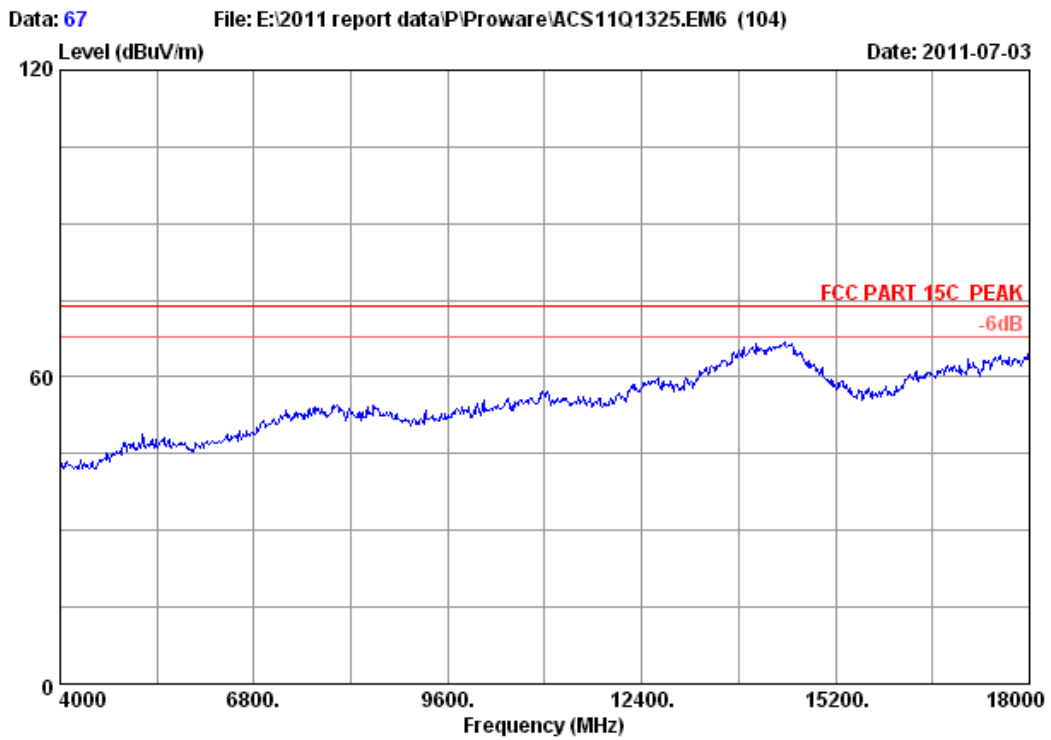
Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : PW-DN4210D

	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	4924.000	35.09	12.58	35.34	42.31	54.64	74.00	19.36	Peak
2	4924.000	35.09	12.58	35.34	34.58	46.91	54.00	7.09	Average

Remarks:

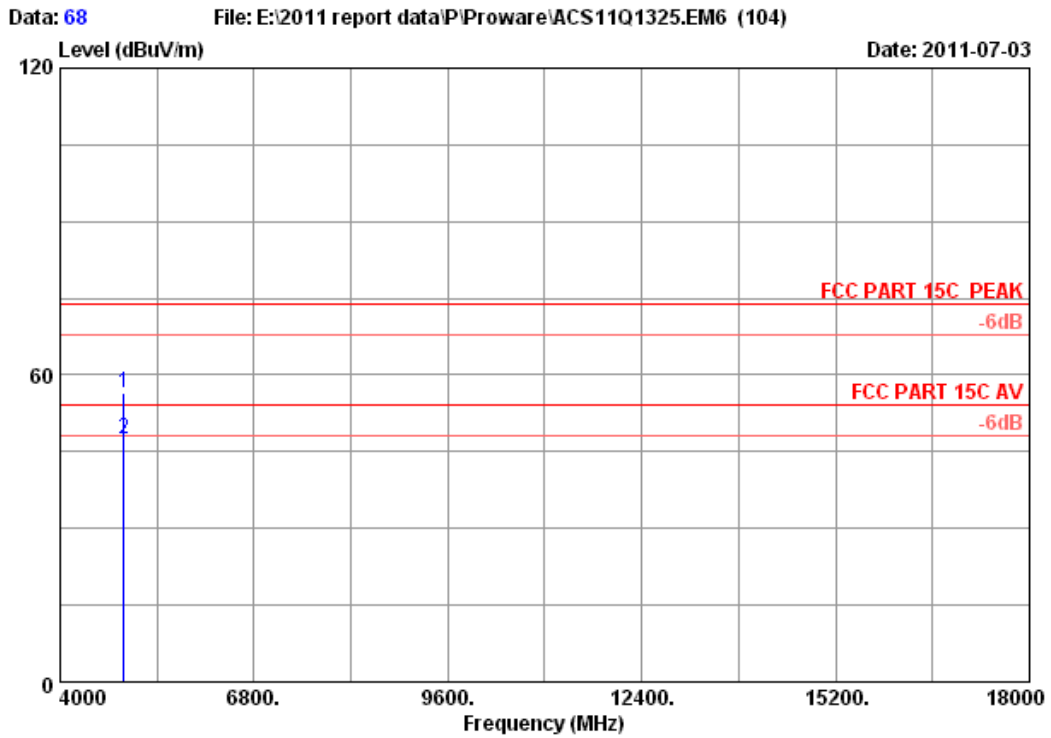
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 67
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



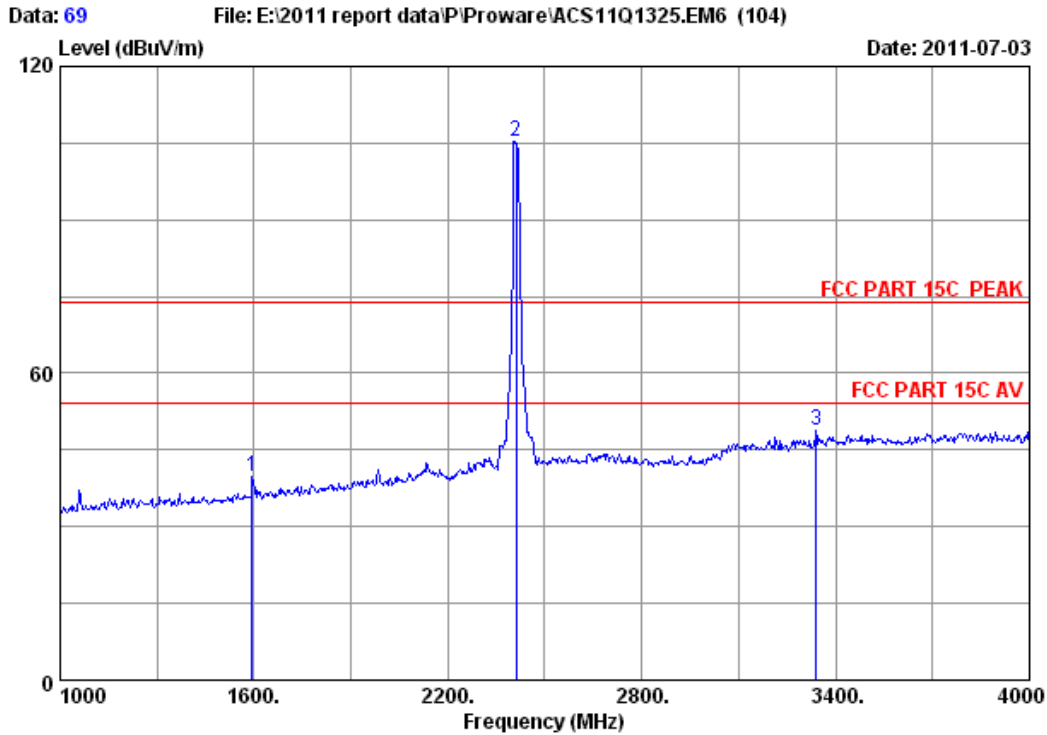
Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : PW-DN4210D

	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	44.29	56.62	74.00	17.38	Peak
2	4924.000	35.09	12.58	35.34	35.24	47.57	54.00	6.43	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.

FCC ID: WWMDN4210DV1



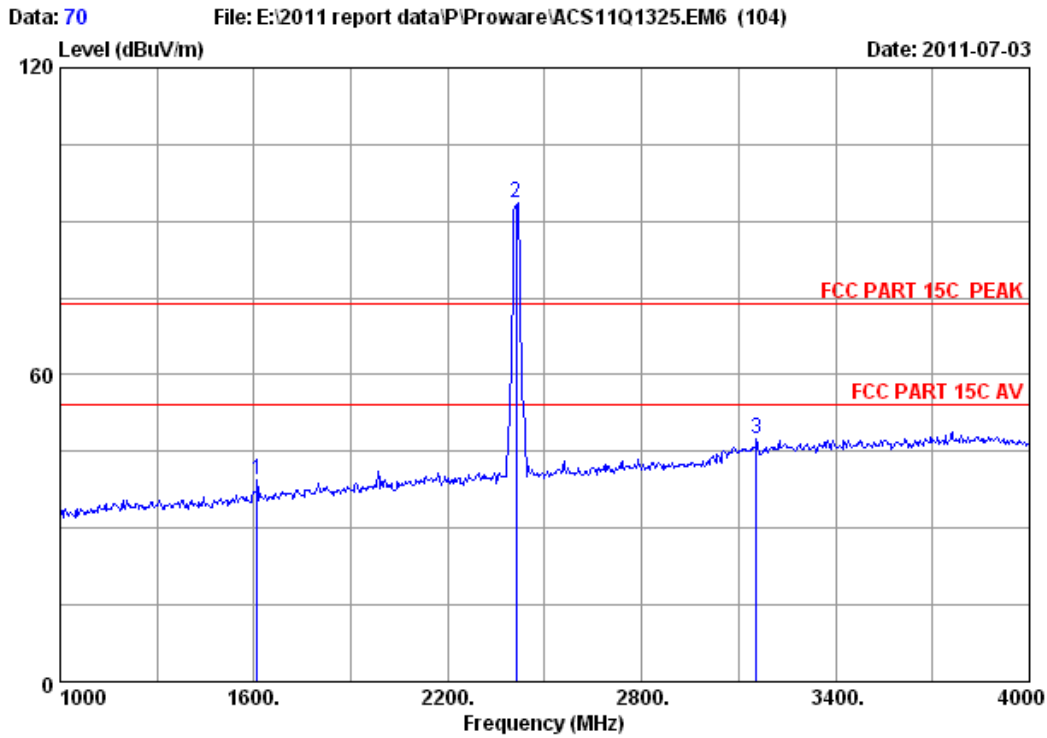
Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz
 M/N : PW-DN4210D

	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	1594.000	26.30	7.09	36.43	42.68	39.64	74.00	34.36	Peak
2	2412.000	28.48	8.60	35.95	104.27	105.40	74.00	-31.40	Peak
3	3340.000	31.17	10.33	35.75	43.16	48.91	74.00	25.09	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.

FCC ID: WWMDN4210DV1



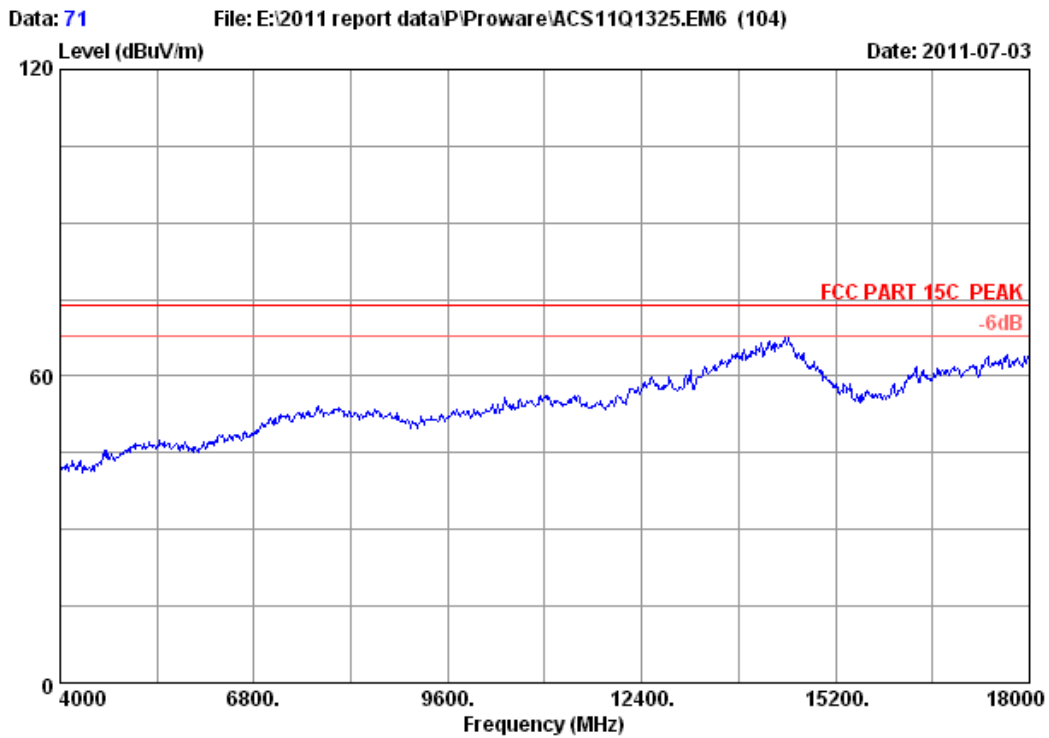
Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz
 M/N : PW-DN4210D

	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	1609.000	26.37	7.15	36.35	42.32	39.49	74.00	34.51	Peak
2	2412.000	28.48	8.60	35.95	92.47	93.60	74.00	-19.60	Peak
3	3154.000	30.63	10.06	35.80	42.47	47.36	74.00	26.64	Peak

Remarks:

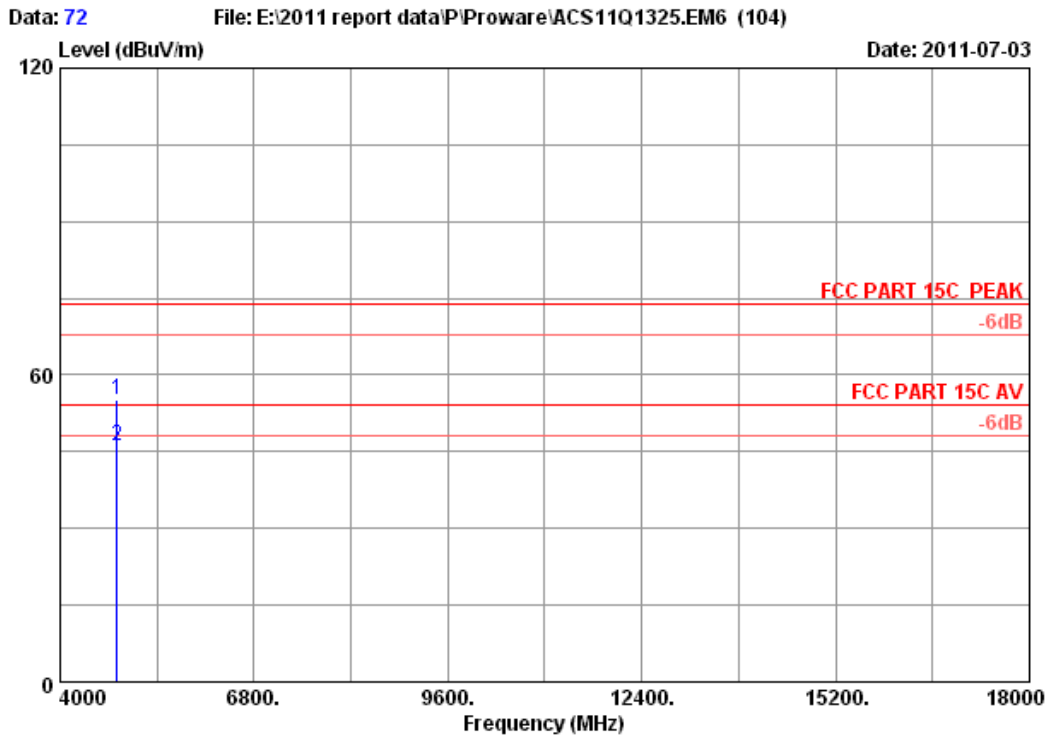
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



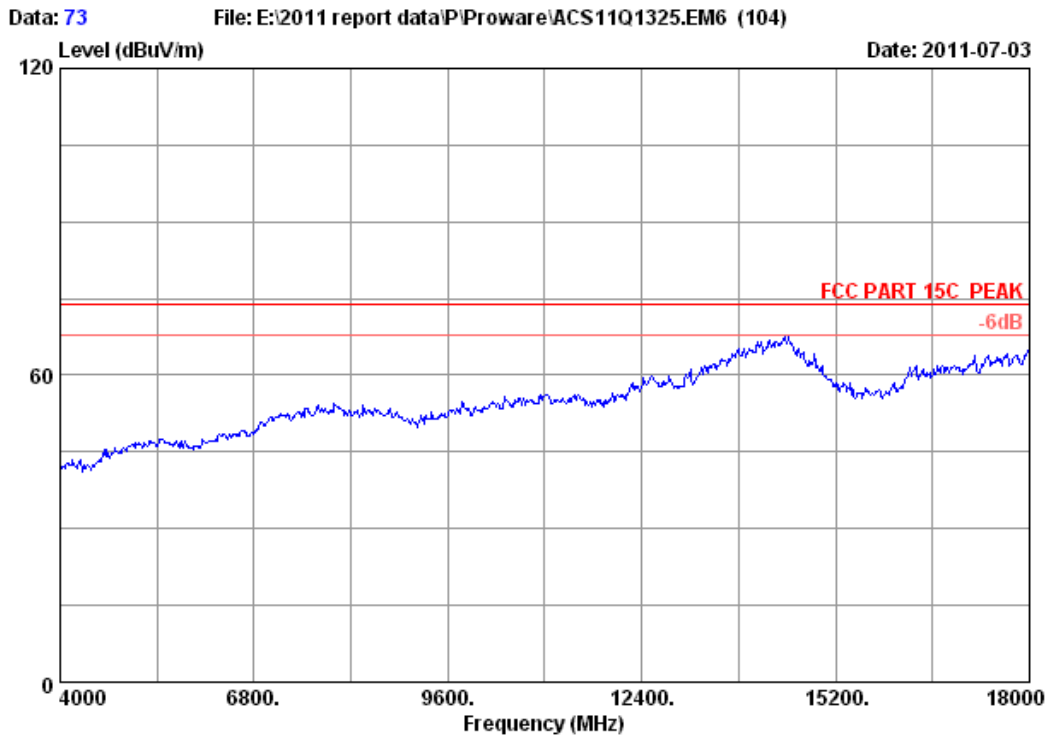
Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz
 M/N : PW-DN4210D

	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	43.37	55.17	74.00	18.83	Peak
2	4824.000	34.47	12.58	35.25	34.23	46.03	54.00	7.97	Average

Remarks:

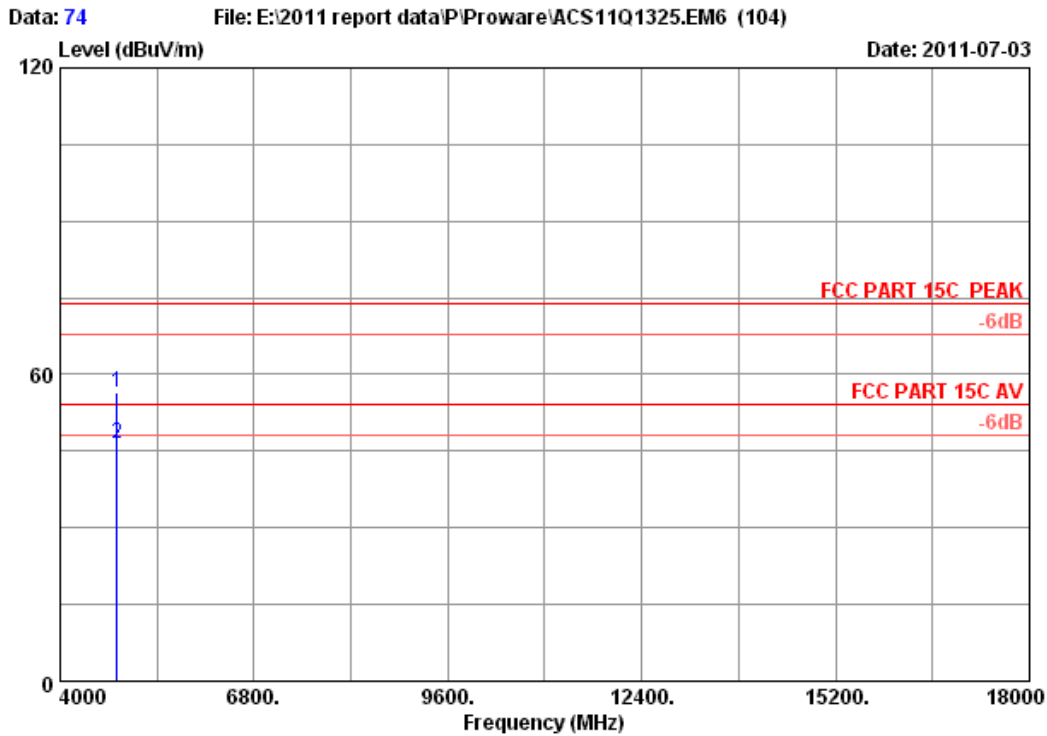
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no.	: 3m Chamber	Data no. :	73
Dis. / Ant.	: 3m 3115(0905)	Ant. pol. :	VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer :	Leo-Li
EUT	: Wireless High Gain USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT20 CH1 2412MHz		
M/N	: PW-DN4210D		

FCC ID: WWMDN4210DV1

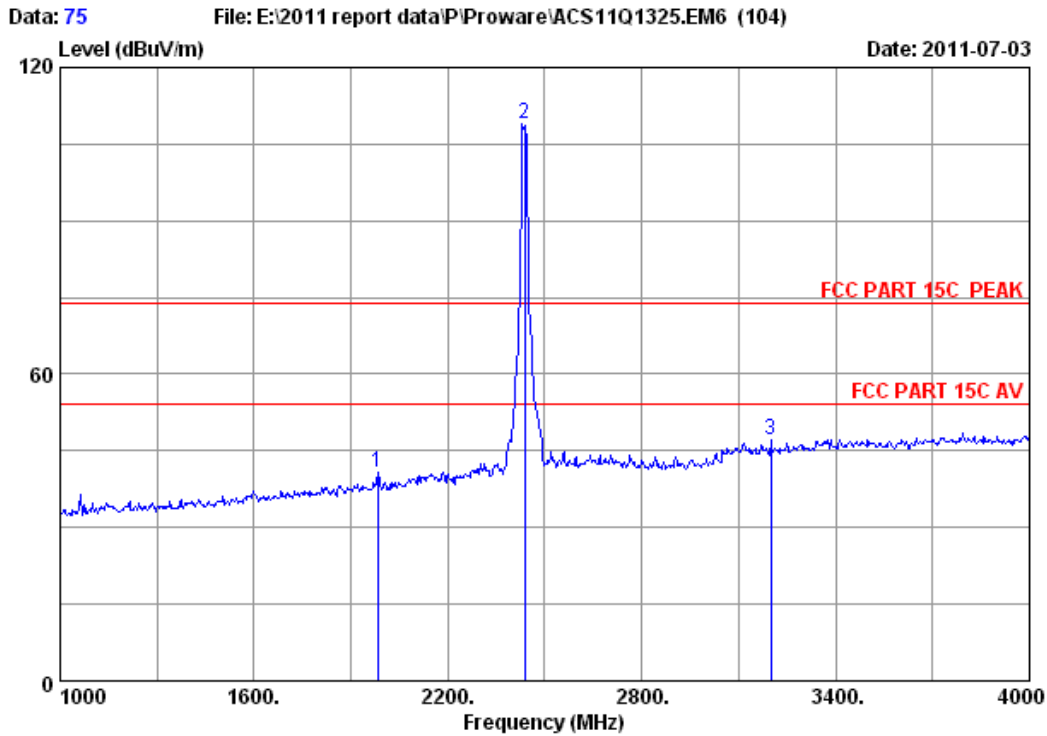


Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz
 M/N : PW-DN4210D

	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	44.61	56.41	74.00	17.59	Peak
2	4824.000	34.47	12.58	35.25	34.63	46.43	54.00	7.57	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.

FCC ID: WWMDN4210DV1



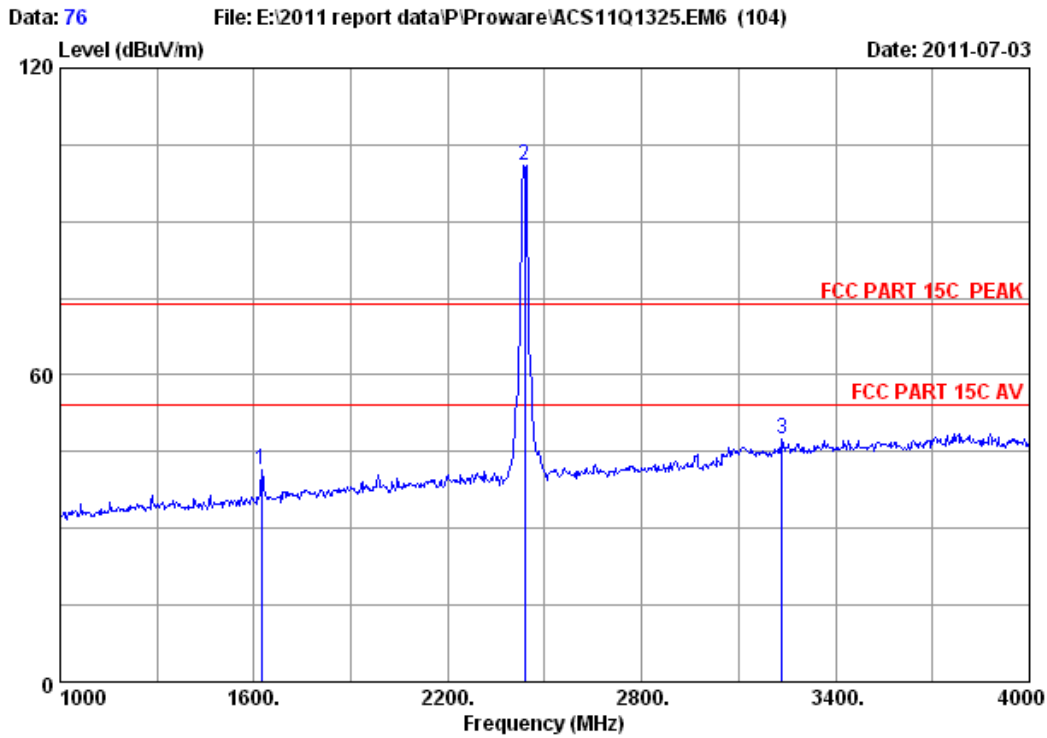
Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	41.11	40.64	74.00	33.36	Peak
2	2437.000	28.53	8.60	36.06	107.80	108.87	74.00	-34.87	Peak
3	3199.000	30.73	9.88	35.93	42.37	47.05	74.00	26.95	Peak

Remarks:

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

FCC ID: WWMDN4210DV1



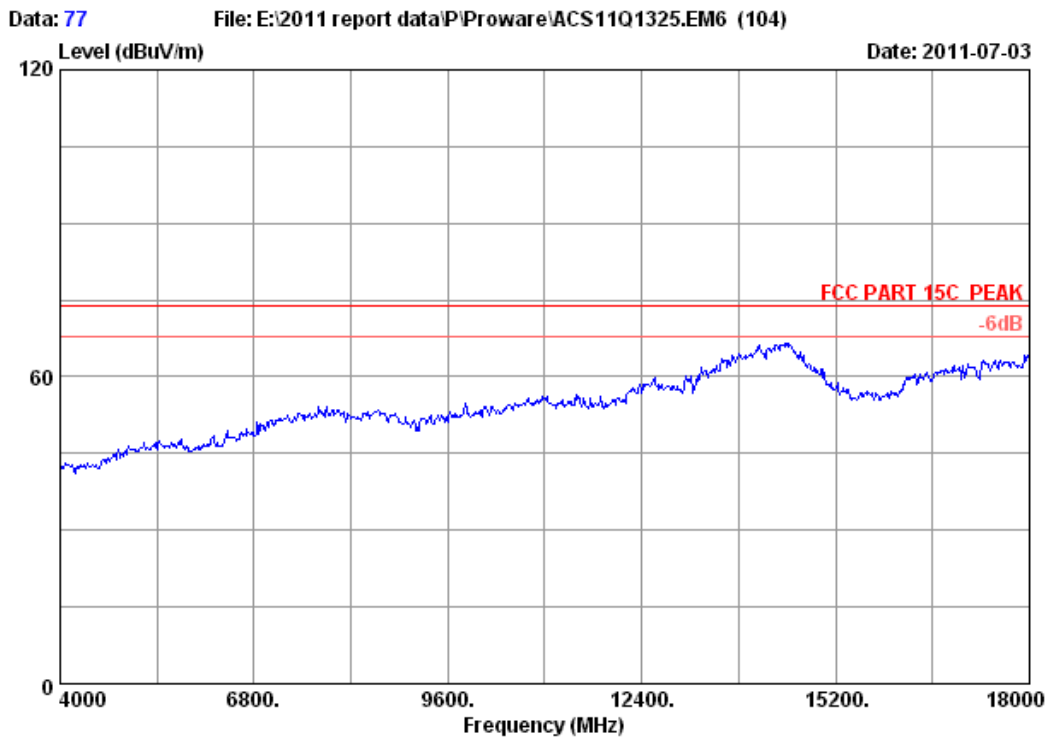
Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz
 M/N : PW-DN4210D

	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	1624.000	26.43	7.15	36.26	44.28	41.60	74.00	32.40	Peak
2	2437.000	28.53	8.60	36.06	99.91	100.98	74.00	-26.98	Peak
3	3235.000	30.83	10.04	35.77	42.33	47.43	74.00	26.57	Peak

Remarks:

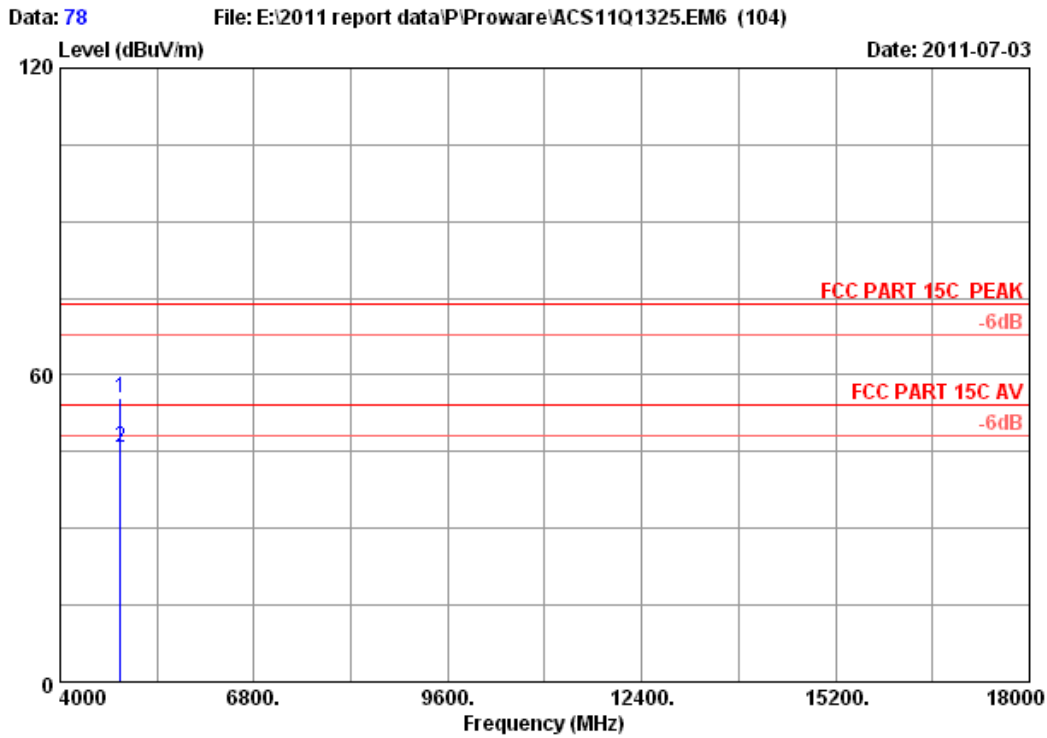
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no.	: 3m Chamber	Data no. :	77
Dis. / Ant.	: 3m 3115(0905)	Ant. pol. :	HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer :	Leo-Li
EUT	: Wireless High Gain USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT20 CH6 2437MHz		
M/N	: PW-DN4210D		

FCC ID: WWMDN4210DV1



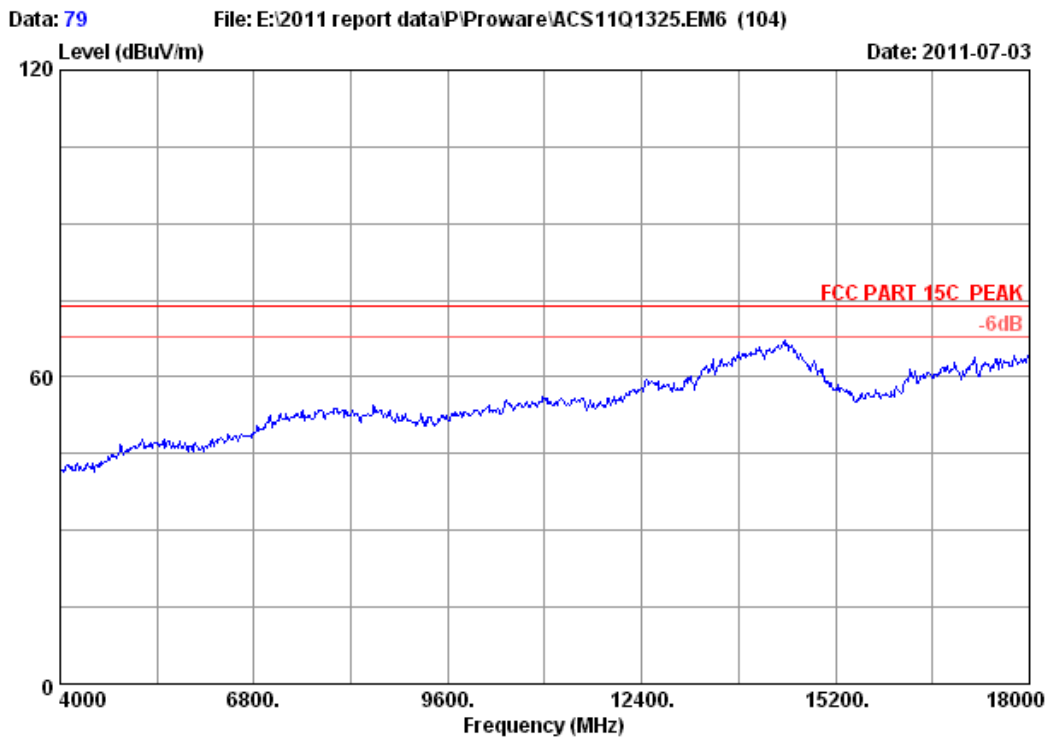
Site no. : 3m Chamber Data no. : 78
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz
 M/N : PW-DN4210D

	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	43.68	55.33	74.00	18.67	Peak
2	4874.000	34.78	12.23	35.36	34.20	45.85	54.00	8.15	Average

Remarks:

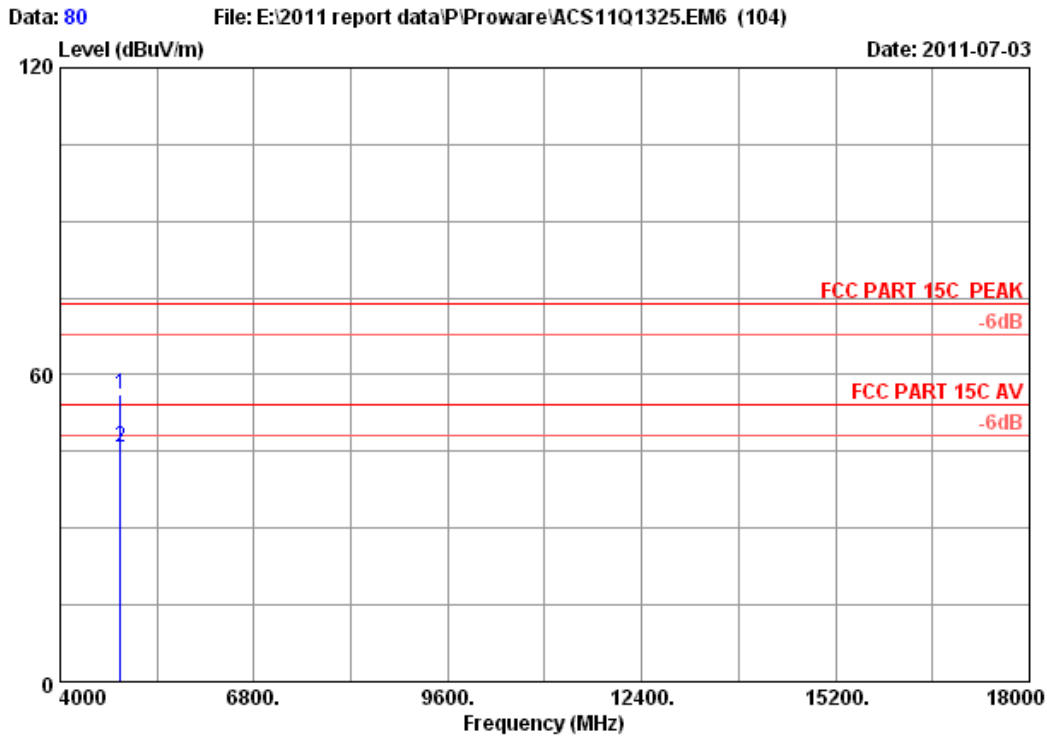
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 79
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



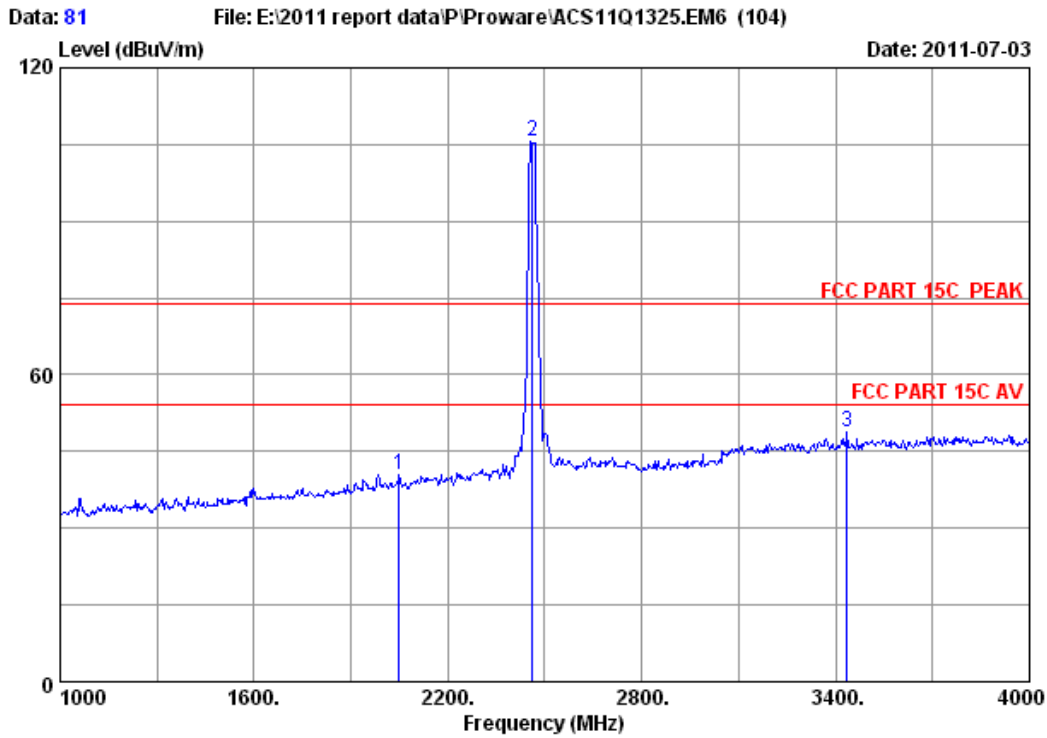
Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz
 M/N : PW-DN4210D

	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	44.66	56.31	74.00	17.69	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.

FCC ID: WWMDN4210DV1



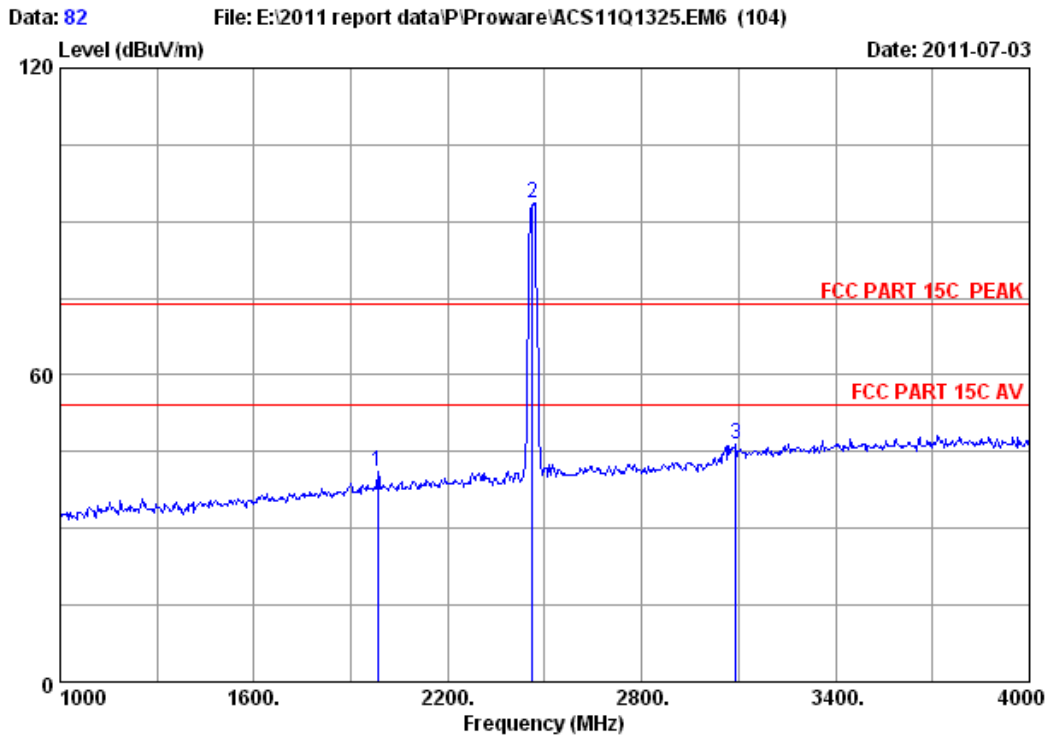
Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz
 M/N : PW-DN4210D

	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	2050.000	27.97	7.97	36.06	40.64	40.52	74.00	33.48	Peak
2	2462.000	28.55	8.76	36.02	104.31	105.60	74.00	-31.60	Peak
3	3436.000	31.41	10.48	35.75	42.70	48.84	74.00	25.16	Peak

Remarks:

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

FCC ID: WWMDN4210DV1



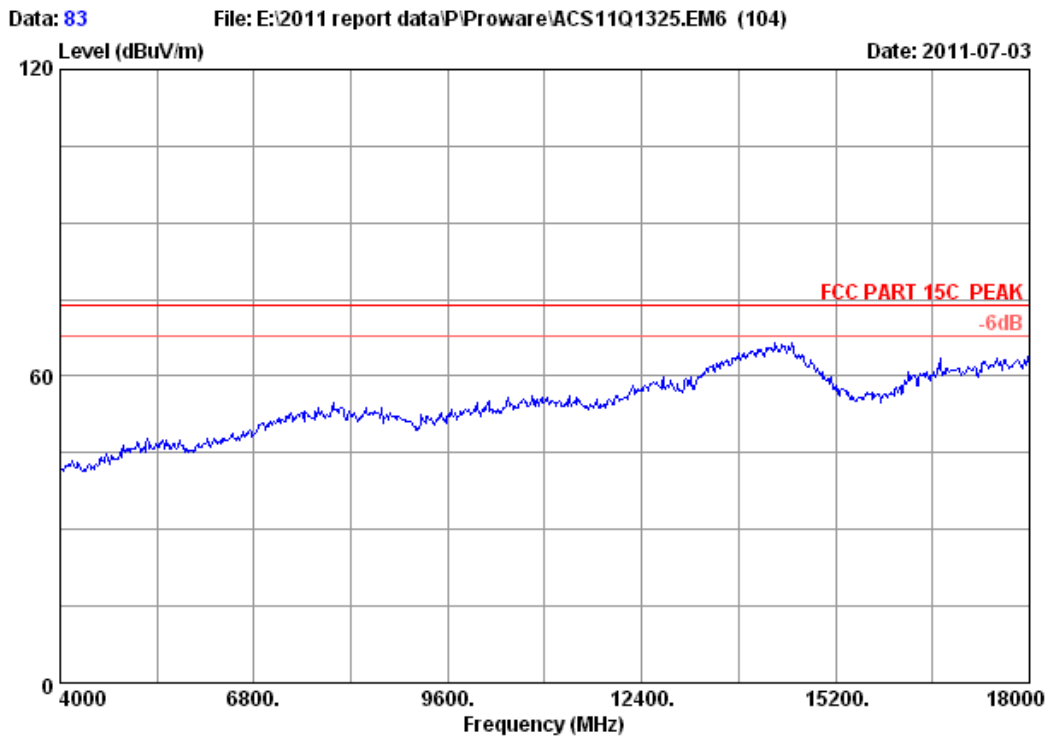
Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	41.60	41.13	74.00	32.87	Peak
2	2462.000	28.55	8.76	36.02	92.21	93.50	74.00	-19.50	Peak
3	3091.000	30.44	9.97	35.71	41.83	46.53	74.00	27.47	Peak

Remarks:

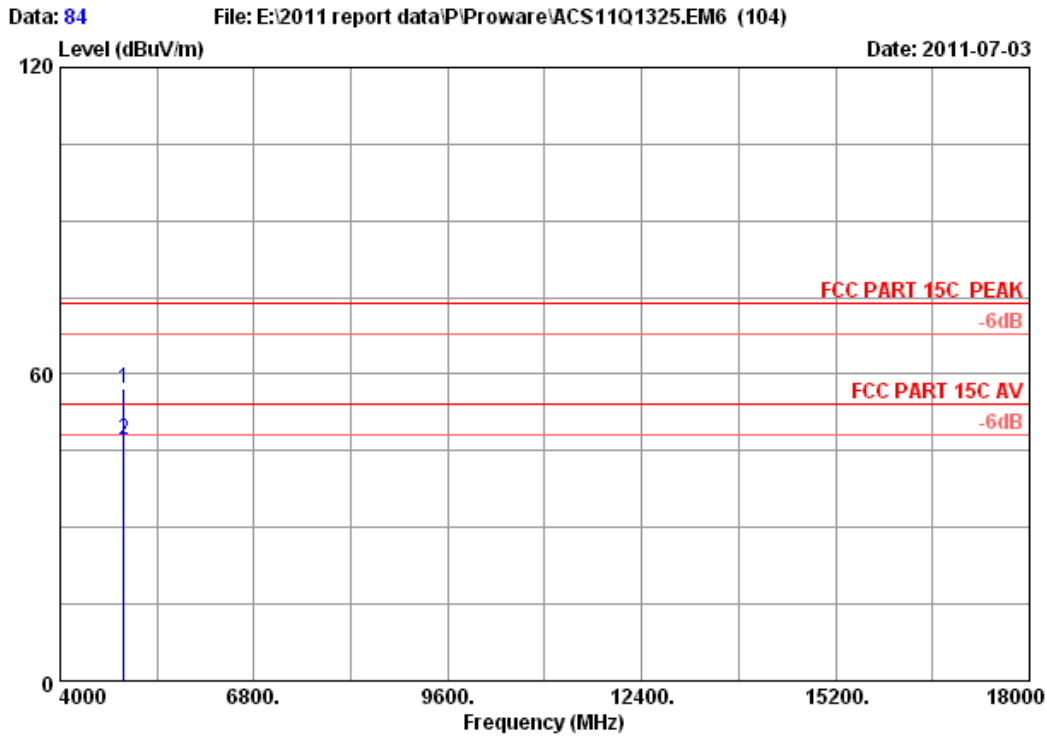
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 83
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



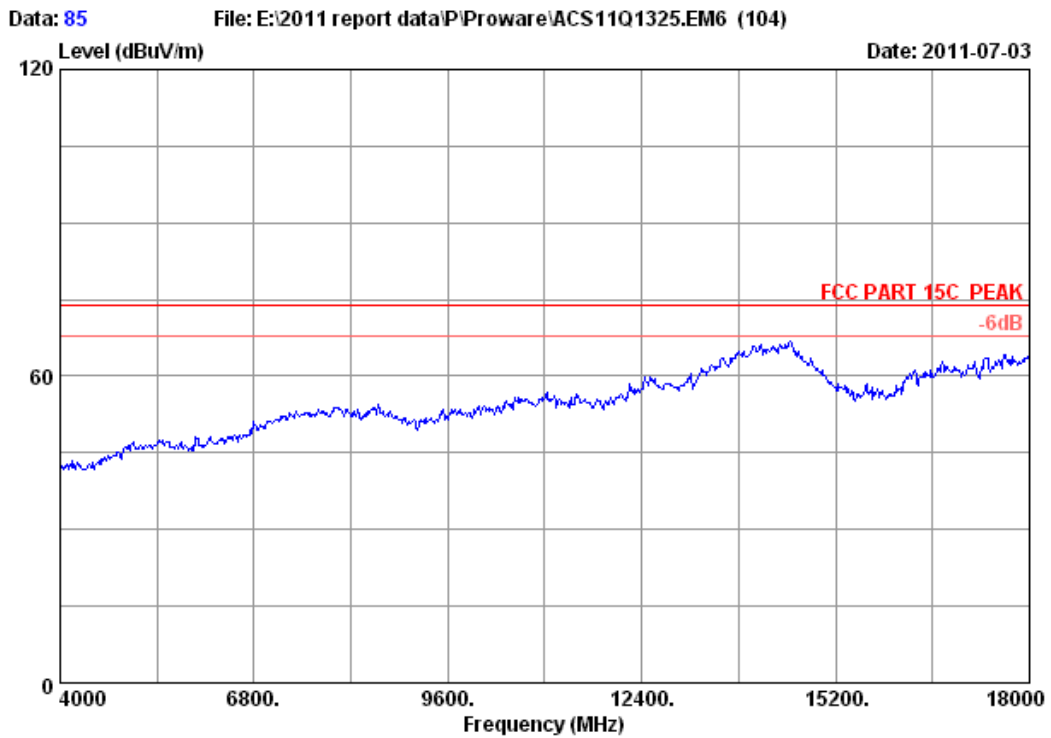
Site no. : 3m Chamber Data no. : 84
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz
 M/N : PW-DN4210D

	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	44.68	57.01	74.00	16.99	Peak
2	4924.000	35.09	12.58	35.34	34.64	46.97	54.00	7.03	Average

Remarks:

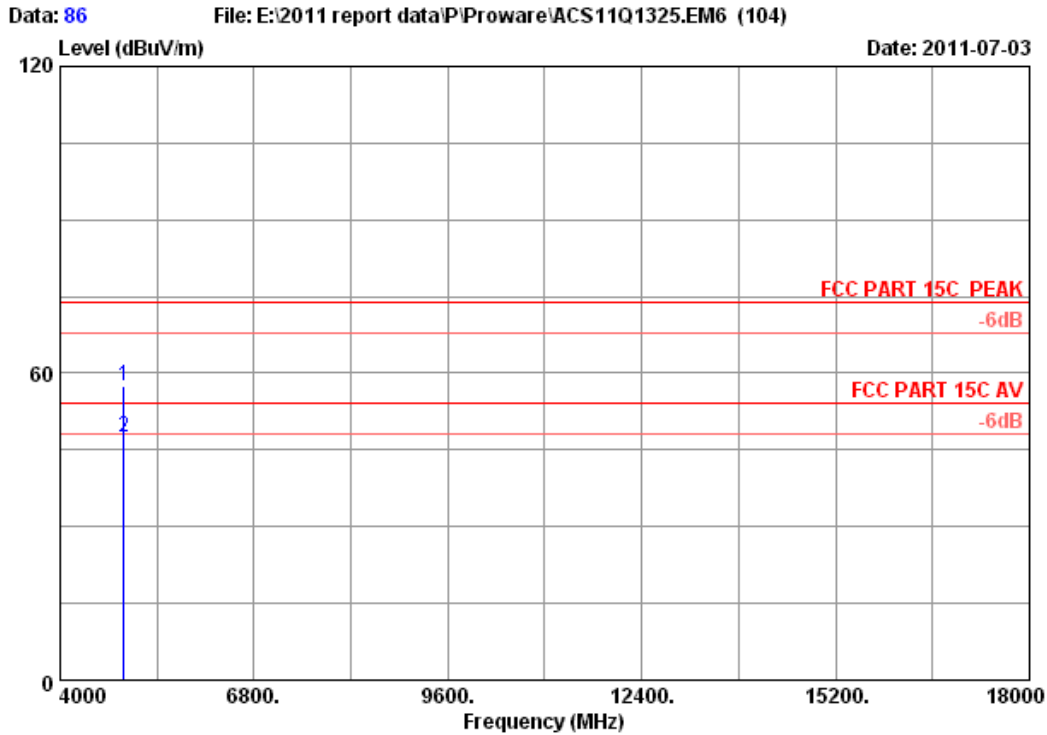
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



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 : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



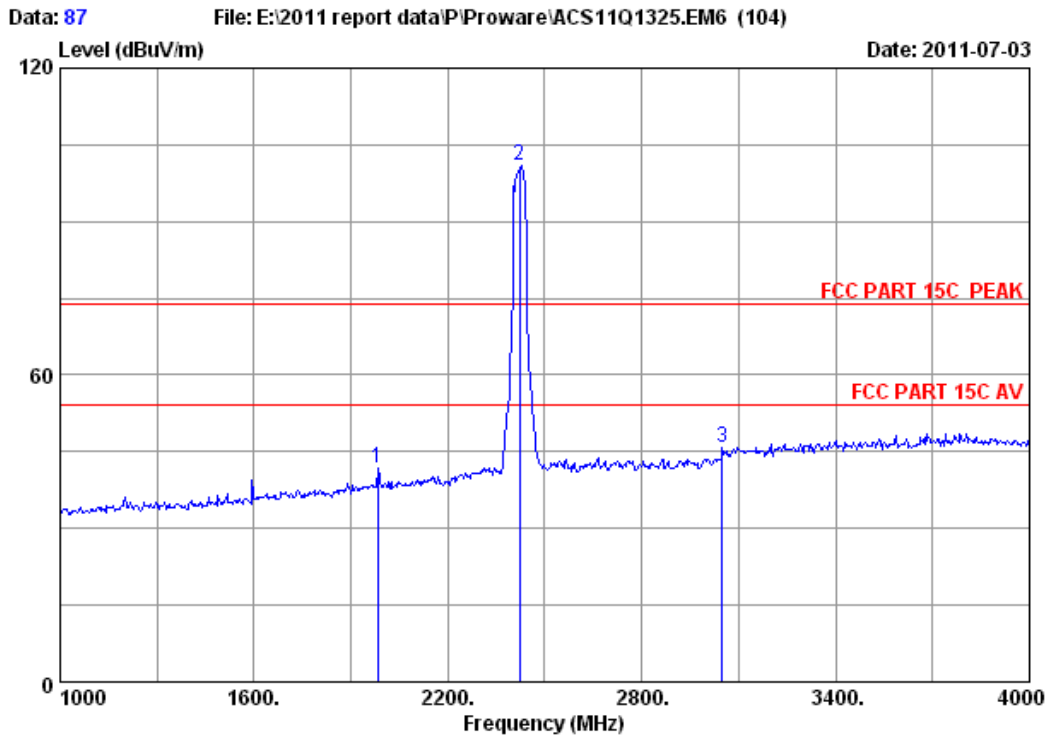
Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz
 M/N : PW-DN4210D

	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	45.21	57.54	74.00	16.46	Peak
2	4924.000	35.09	12.58	35.34	35.24	47.57	54.00	6.43	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.

FCC ID: WWMDN4210DV1



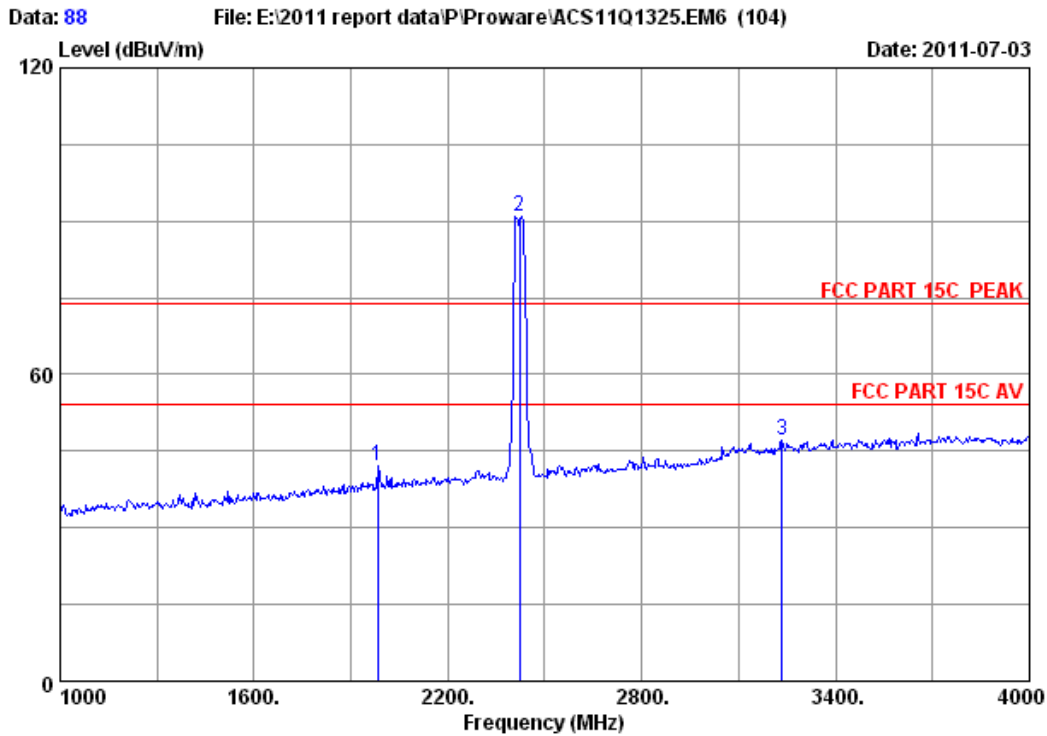
Site no. : 3m Chamber Data no. : 87
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	42.22	41.75	74.00	32.25	Peak
2	2422.000	28.50	8.60	36.01	99.80	100.89	74.00	-26.89	Peak
3	3049.000	30.34	9.82	35.84	41.63	45.95	74.00	28.05	Peak

Remarks:

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

FCC ID: WWMDN4210DV1



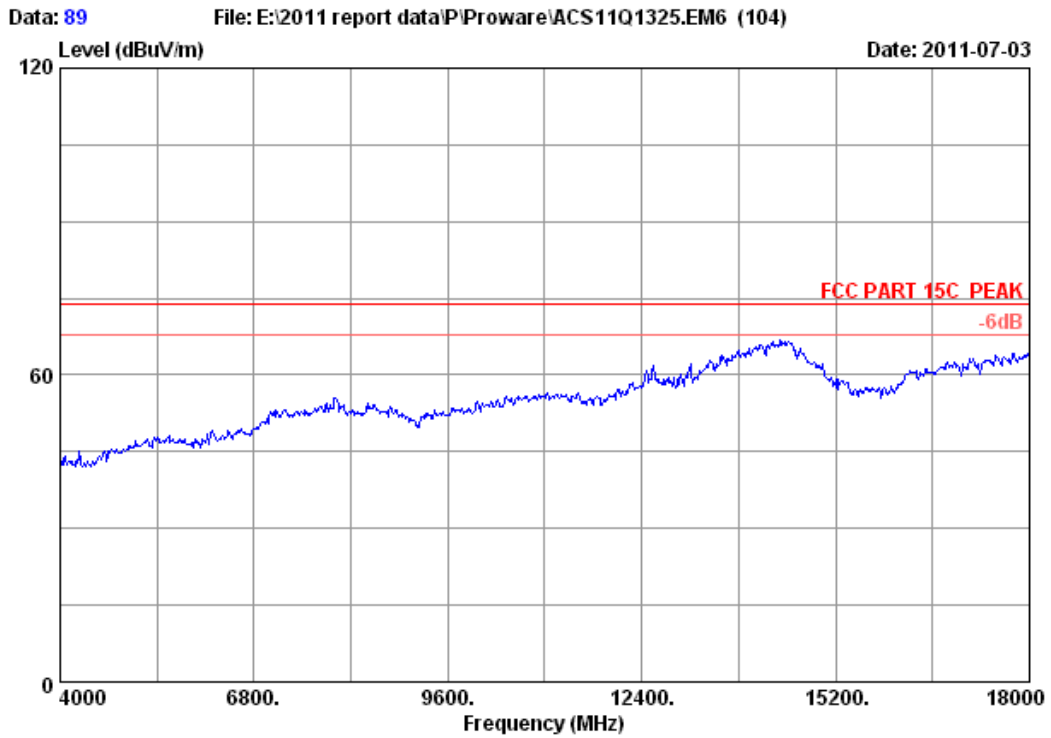
Site no. : 3m Chamber Data no. : 88
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	42.49	42.02	74.00	31.98	Peak
2	2422.000	28.50	8.60	36.01	89.76	90.85	74.00	-16.85	Peak
3	3235.000	30.83	10.04	35.77	41.94	47.04	74.00	26.96	Peak

Remarks:

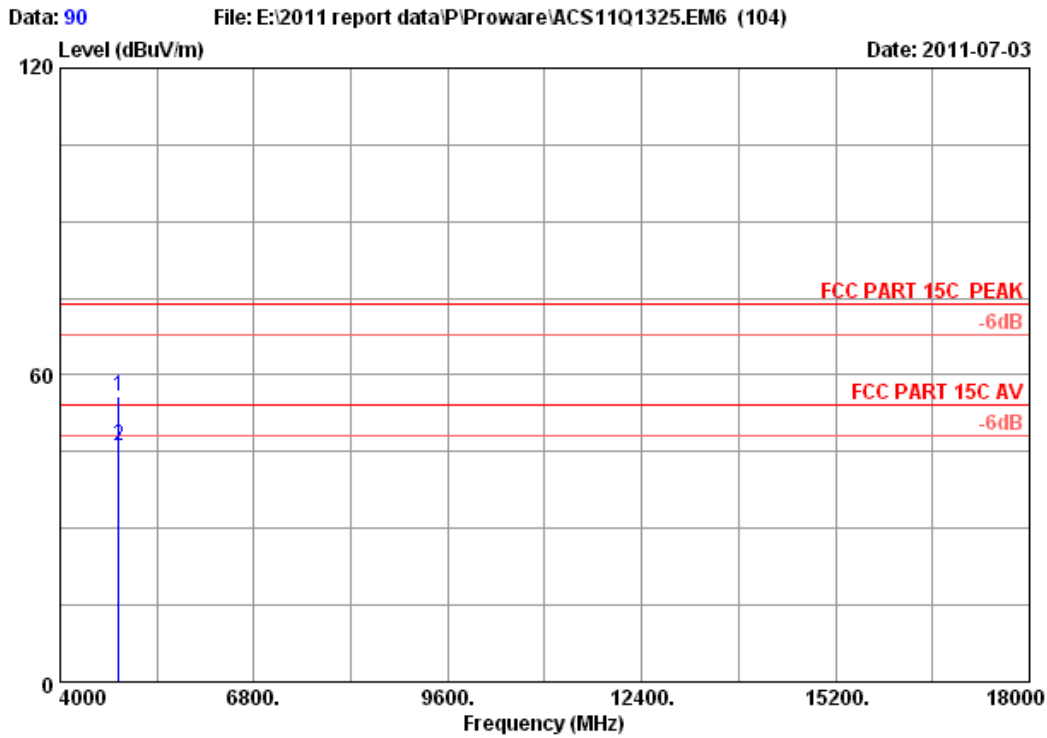
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



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 : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



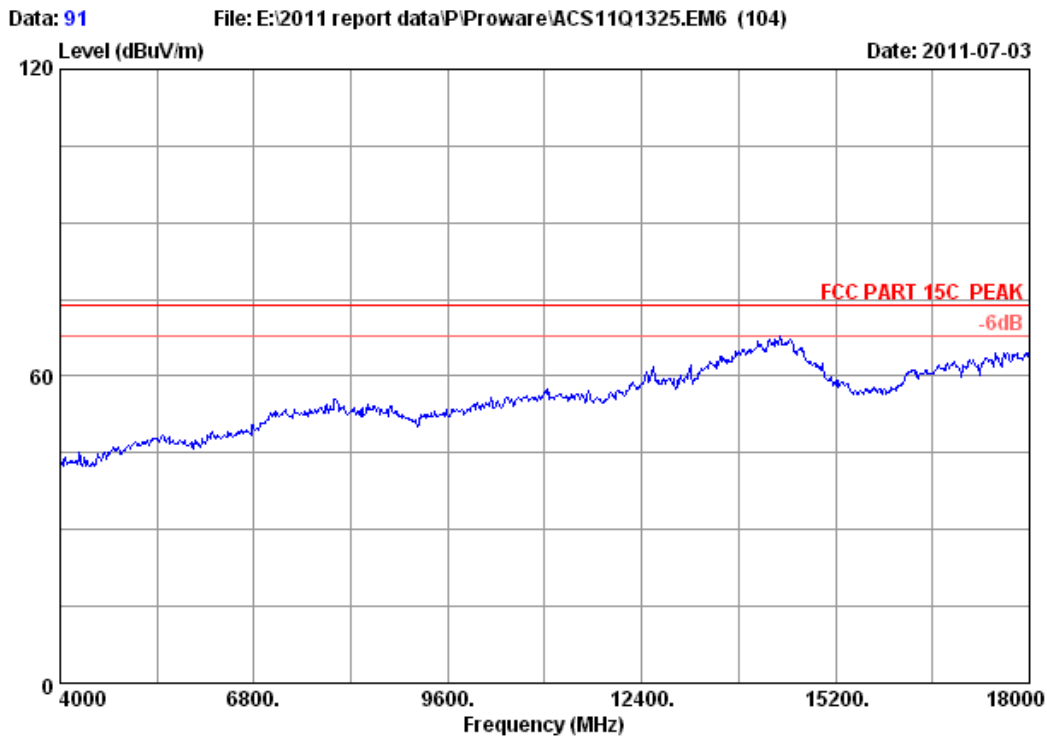
Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz
 M/N : PW-DN4210D

	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	43.98	55.75	74.00	18.25	Peak
2	4844.000	34.57	12.45	35.25	34.27	46.04	54.00	7.96	Average

Remarks:

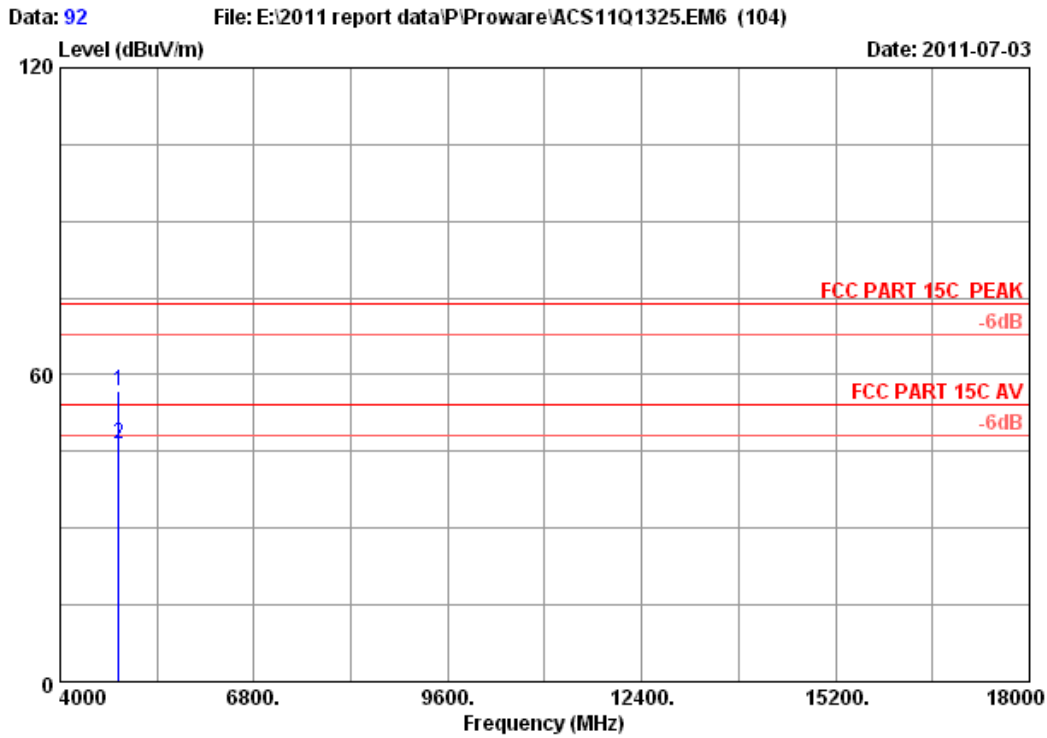
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



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 : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



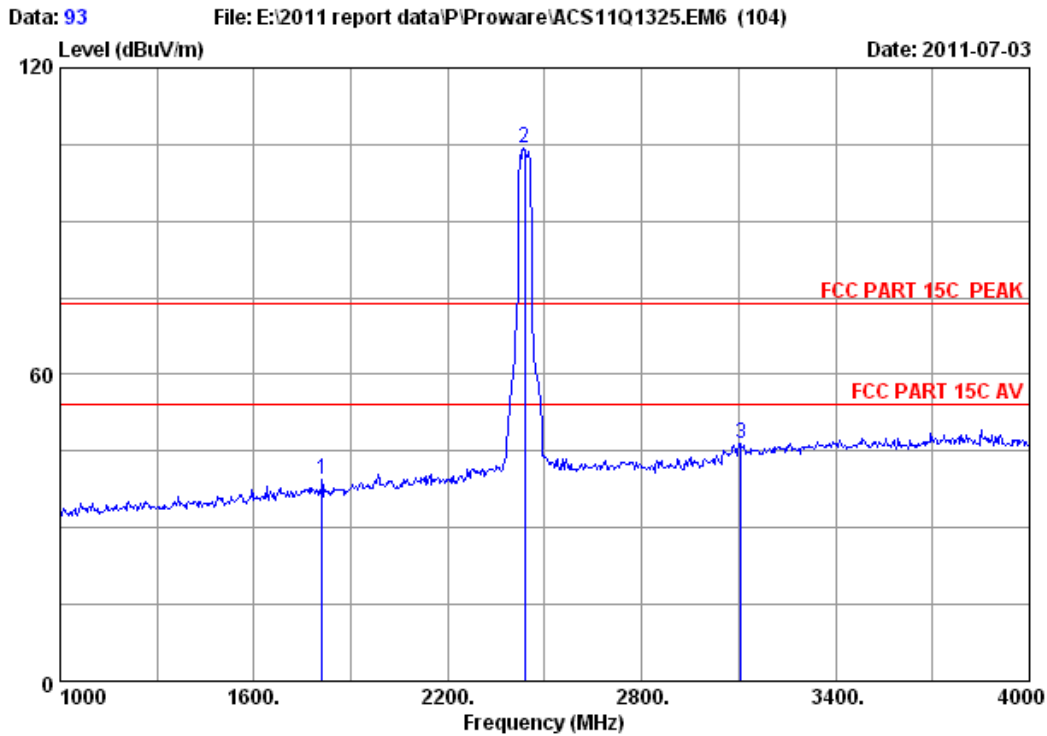
Site no. : 3m Chamber Data no. : 92
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz
 M/N : PW-DN4210D

	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	4844.000	34.57	12.45	35.25	44.95	56.72	74.00	17.28	Peak
2	4844.000	34.57	12.45	35.25	34.61	46.38	54.00	7.62	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.

FCC ID: WWMDN4210DV1



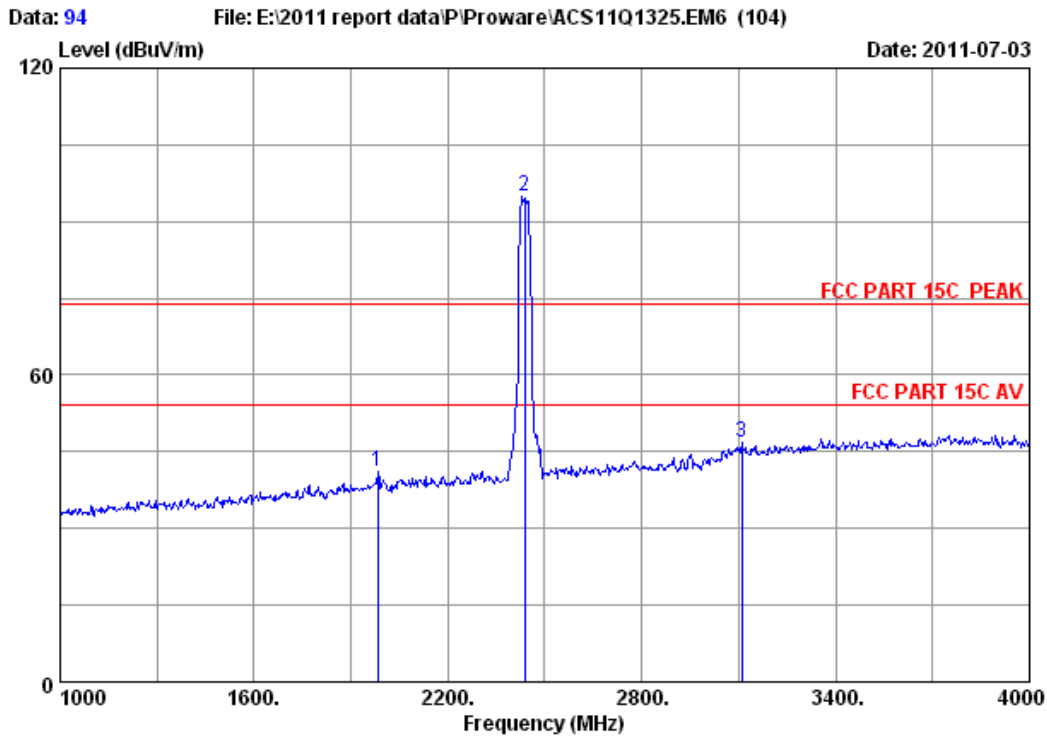
Site no. : 3m Chamber Data no. : 93
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz
 M/N : PW-DN4210D

	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	1810.000	27.17	7.46	36.34	41.11	39.40	74.00	34.60	Peak
2	2437.000	28.53	8.60	36.06	103.13	104.20	74.00	-30.20	Peak
3	3106.000	30.49	9.98	35.73	41.69	46.43	74.00	27.57	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.

FCC ID: WWMDN4210DV1



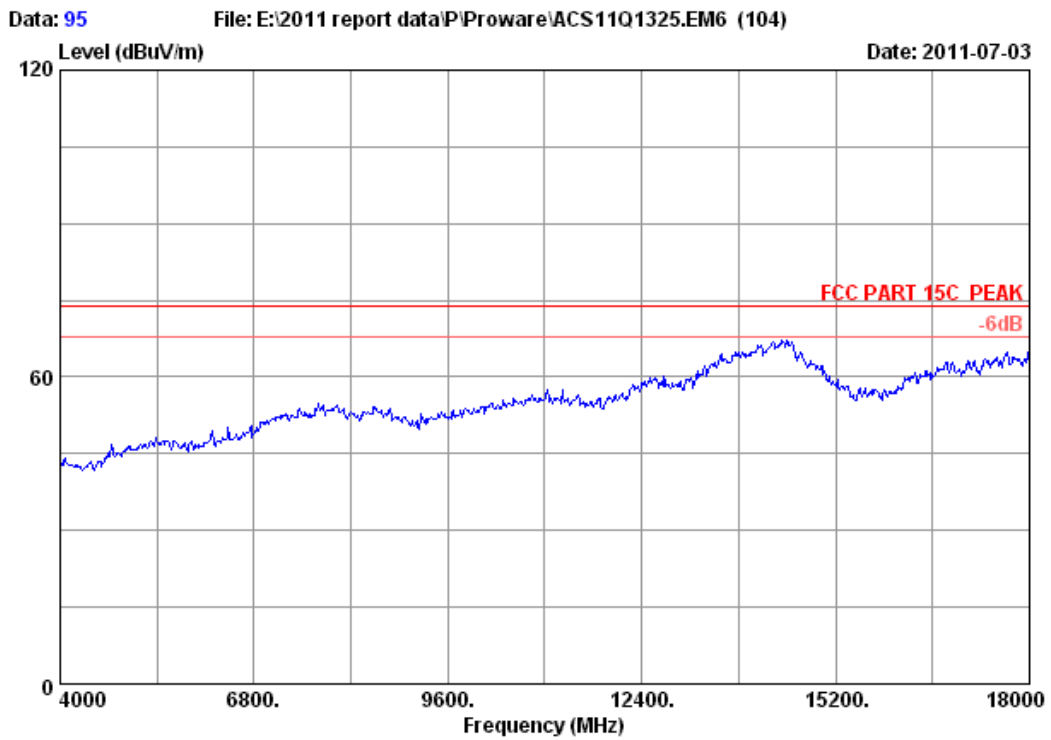
Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz
 M/N : PW-DN4210D

	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	1984.000	27.83	7.76	36.06	41.70	41.23	74.00	32.77	Peak
2	2437.000	28.53	8.60	36.06	93.76	94.83	74.00	-20.83	Peak
3	3109.000	30.49	9.98	35.73	41.95	46.69	74.00	27.31	Peak

Remarks:

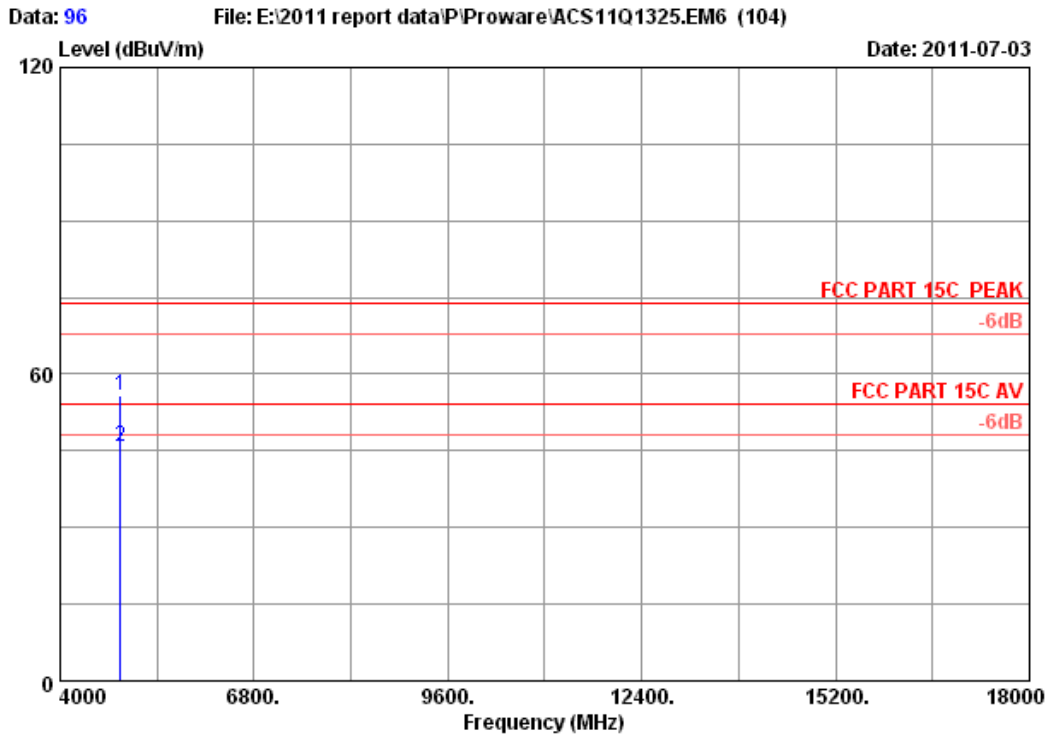
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



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 : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



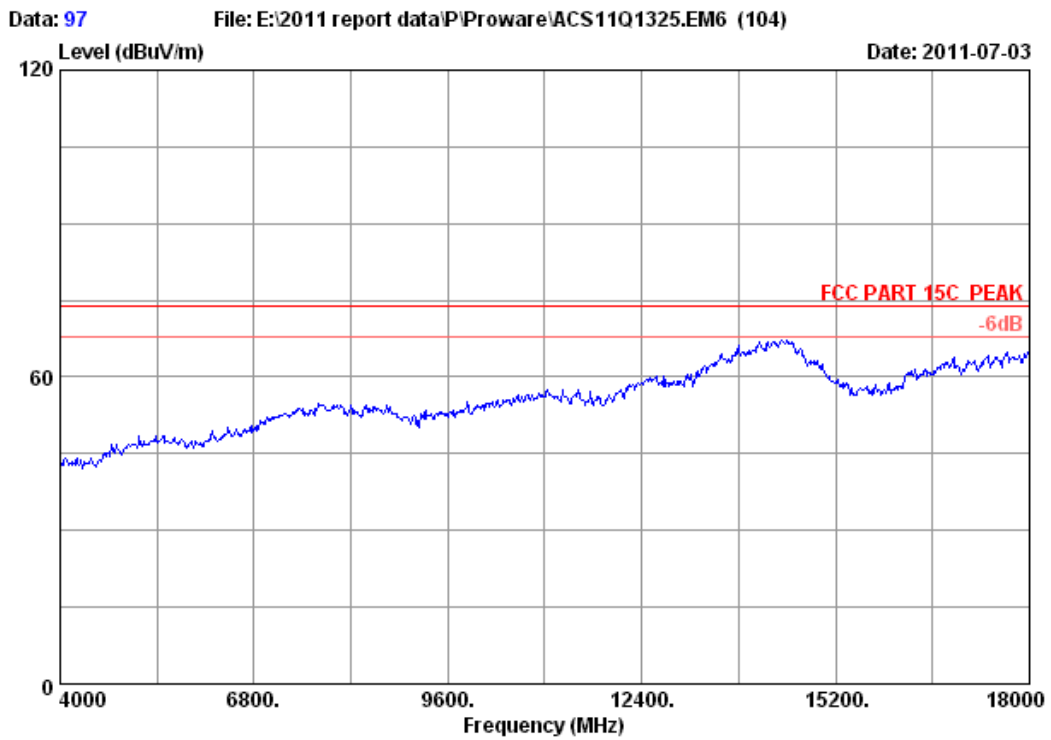
Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz
 M/N : PW-DN4210D

	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	44.01	55.66	74.00	18.34	Peak
2	4874.000	34.78	12.23	35.36	34.04	45.69	54.00	8.31	Average

Remarks:

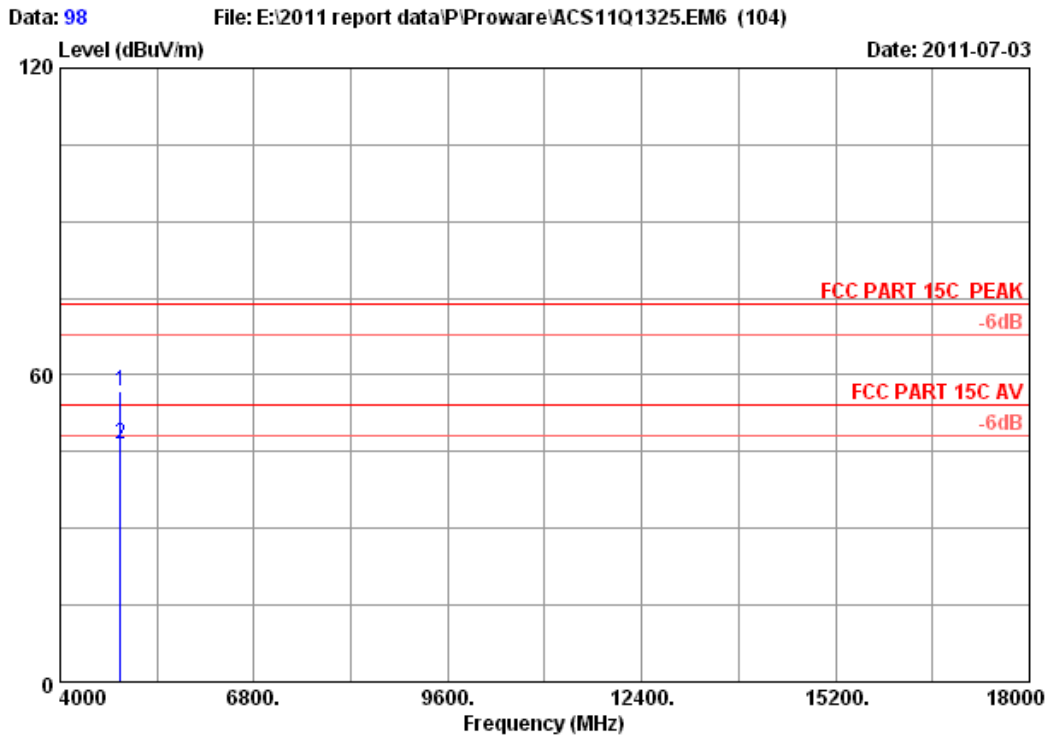
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID:WWMDN4210DV1



Site no. : 3m Chamber Data no. : 97
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



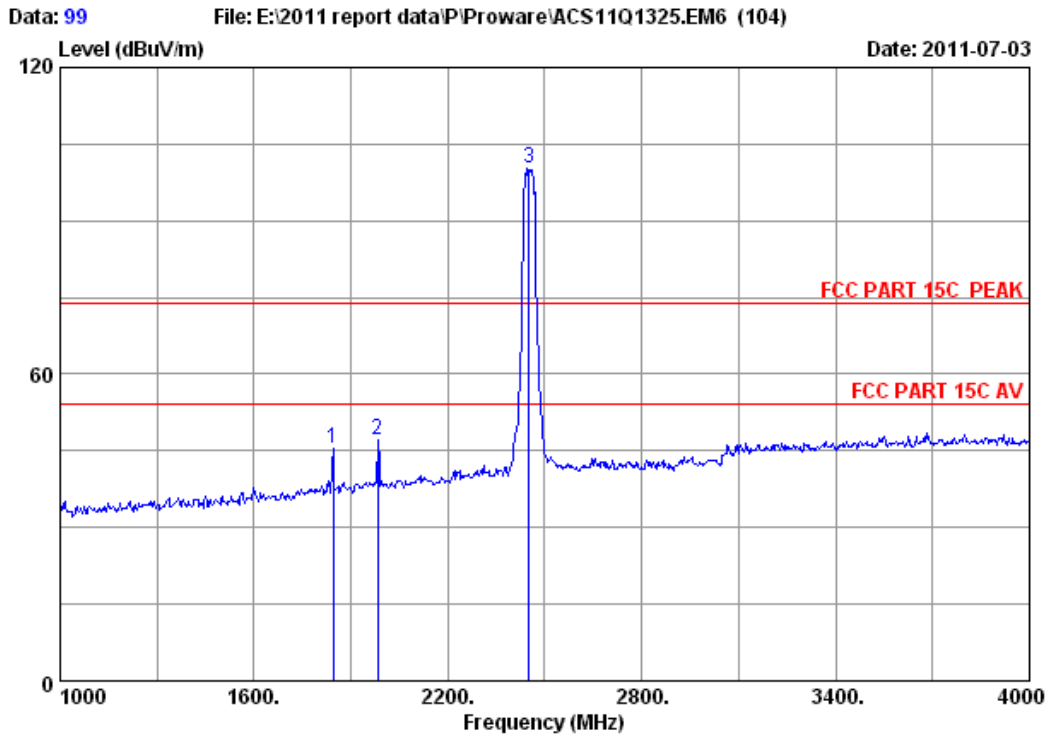
Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz
 M/N : PW-DN4210D

	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	4874.000	34.78	12.23	35.36	45.02	56.67	74.00	17.33	Peak
2	4874.000	34.78	12.23	35.36	34.67	46.32	54.00	7.68	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.

FCC ID: WWMDN4210DV1



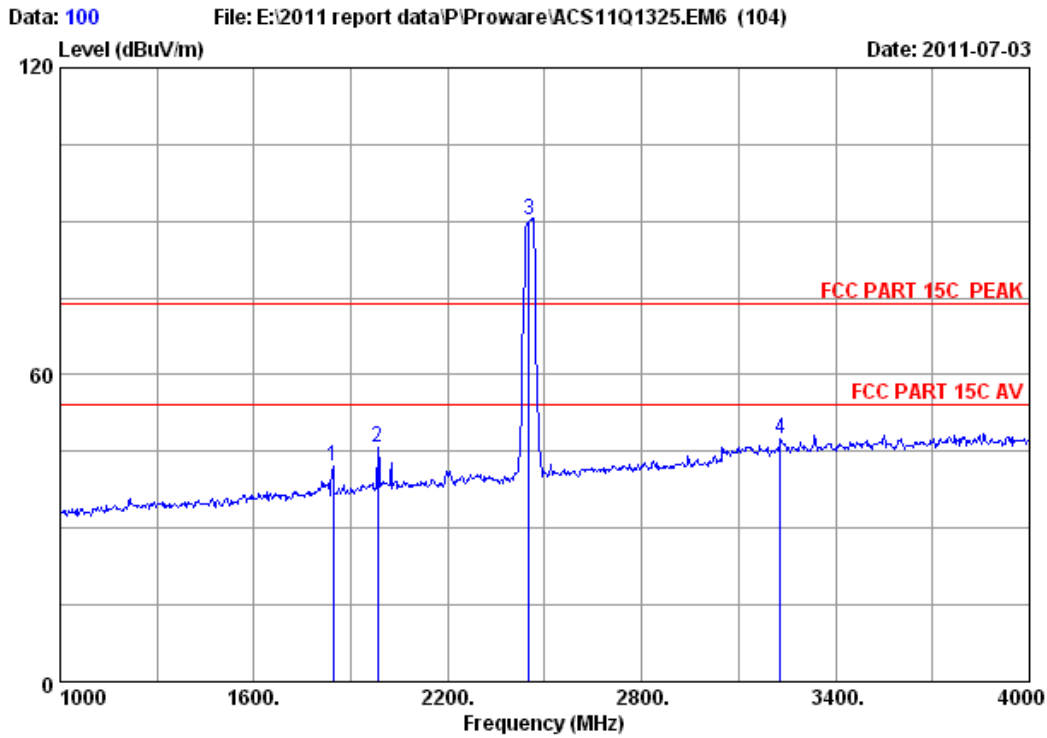
Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz
 M/N : PW-DN4210D

	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	1846.000	27.30	7.52	36.23	46.79	45.38	74.00	28.62	Peak
2	1984.000	27.83	7.76	36.06	47.69	47.22	74.00	26.78	Peak
3	2452.000	28.53	8.48	36.06	99.31	100.26	74.00	-26.26	Peak

Remarks:

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

FCC ID: WWMDN4210DV1



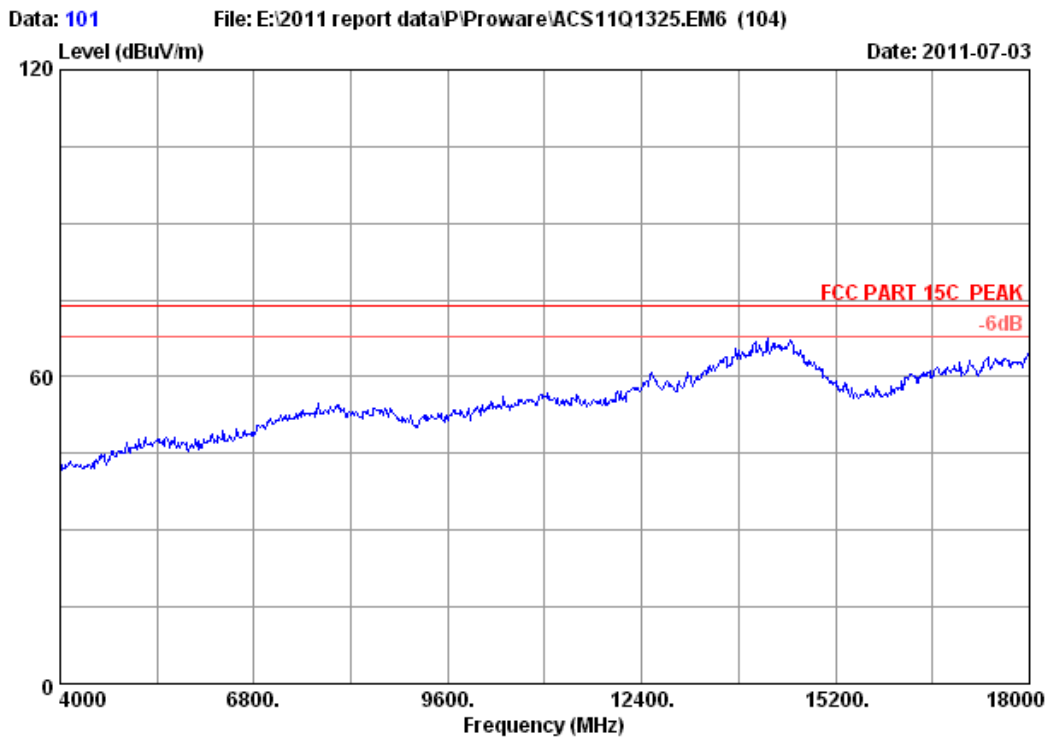
Site no. : 3m Chamber Data no. : 100
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz
 M/N : PW-DN4210D

	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	1846.000	27.30	7.52	36.23	43.45	42.04	74.00	31.96	Peak
2	1984.000	27.83	7.76	36.06	46.30	45.83	74.00	28.17	Peak
3	2452.000	28.53	8.48	36.06	89.19	90.14	74.00	-16.14	Peak
4	3229.000	30.83	10.04	35.77	42.23	47.33	74.00	26.67	Peak

Remarks:

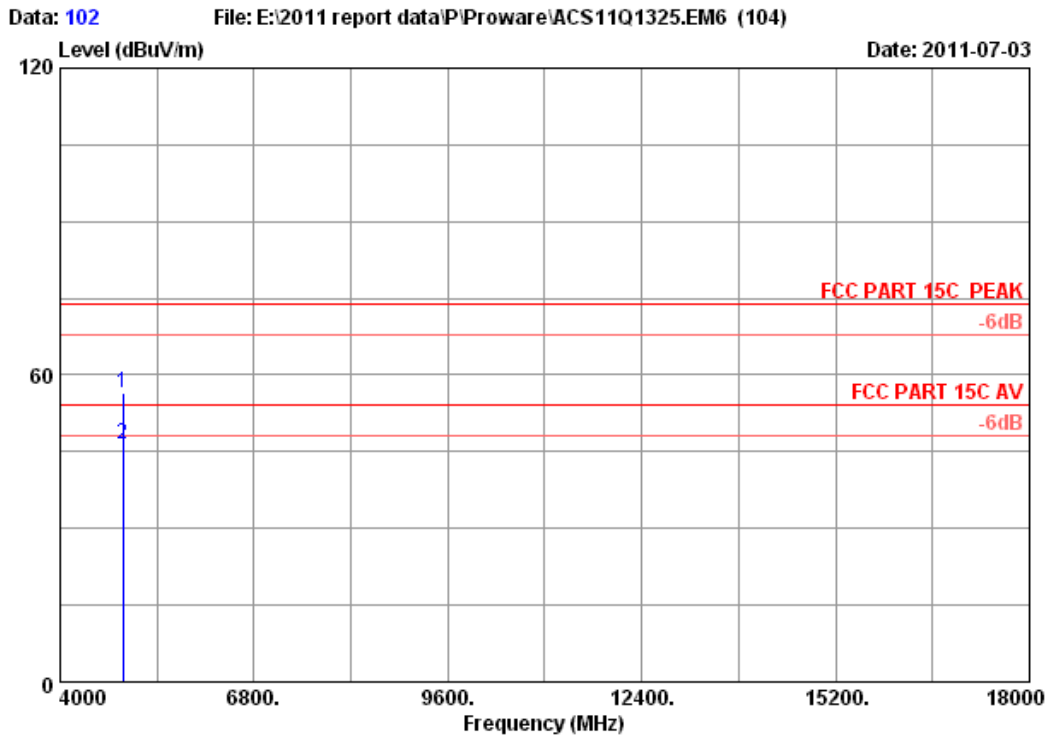
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 101
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



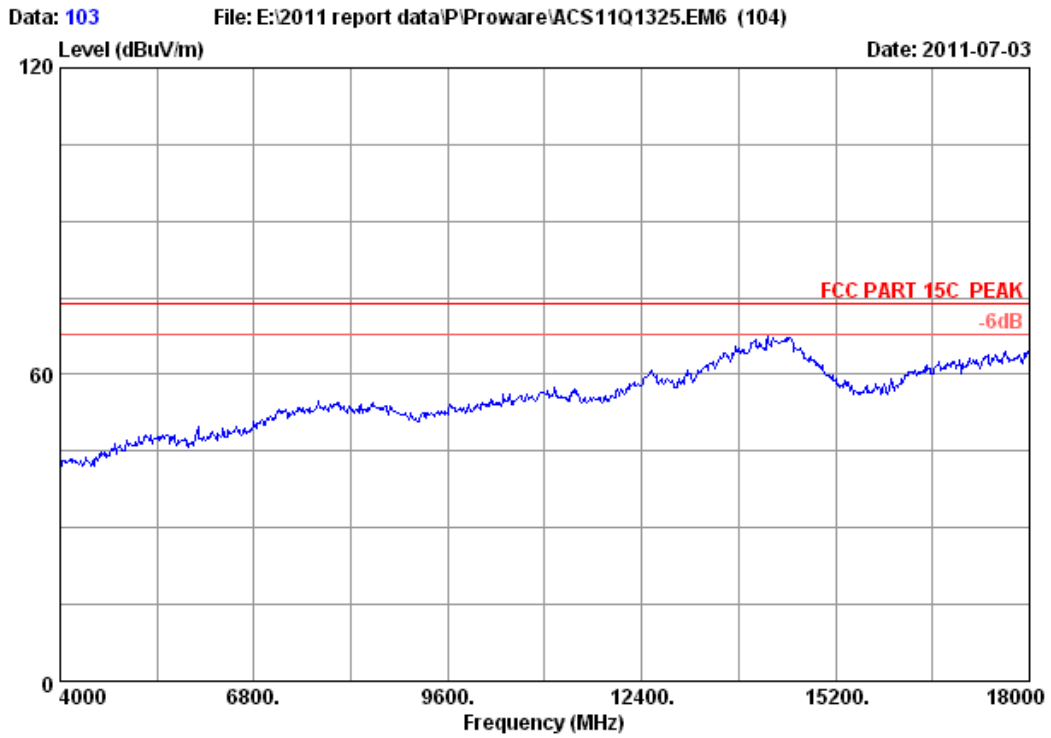
Site no. : 3m Chamber Data no. : 102
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz
 M/N : PW-DN4210D

	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	4904.000	34.98	12.43	35.27	44.36	56.50	74.00	17.50	Peak
2	4904.000	34.98	12.43	35.27	34.22	46.36	54.00	7.64	Average

Remarks:

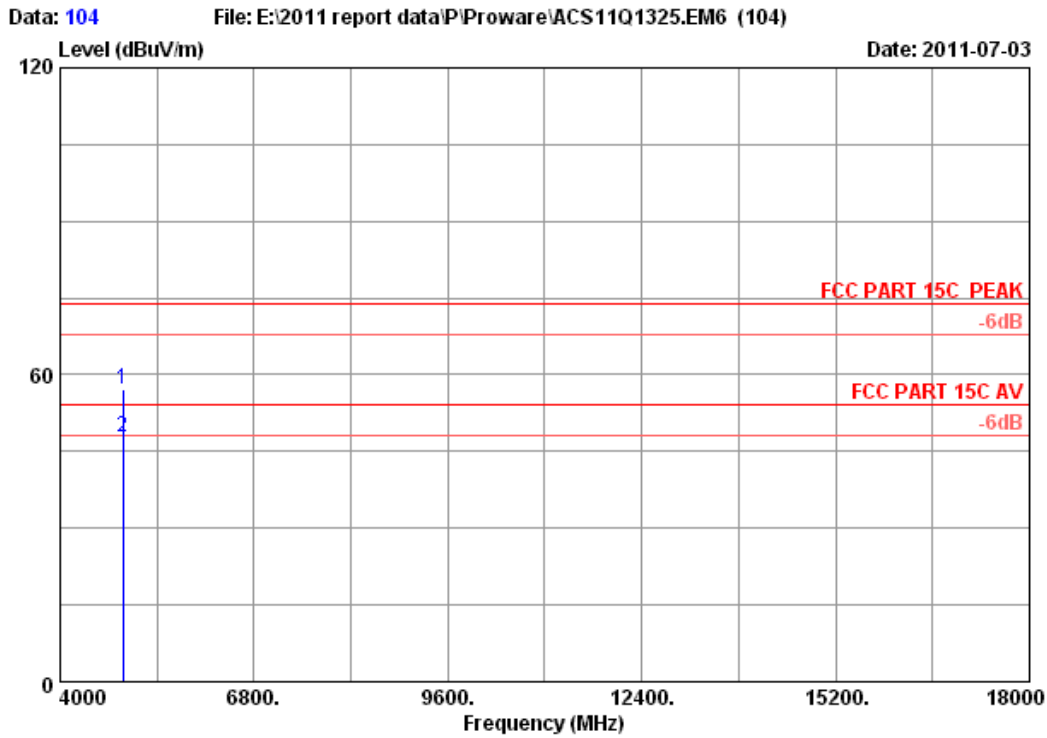
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 103
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless High Gain USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz
M/N : PW-DN4210D

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 104
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz
 M/N : PW-DN4210D

	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	4904.000	34.98	12.43	35.27	45.13	57.27	74.00	16.73	Peak
2	4904.000	34.98	12.43	35.27	35.69	47.83	54.00	6.17	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.

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

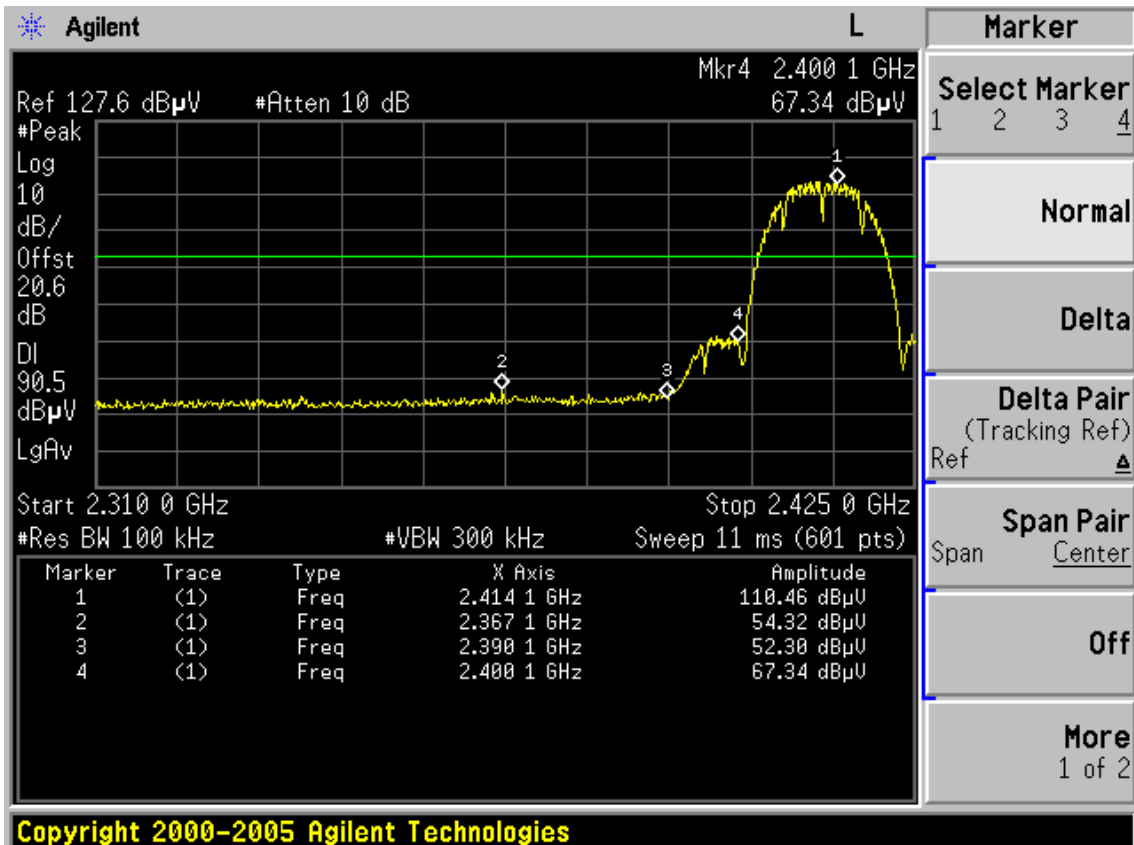
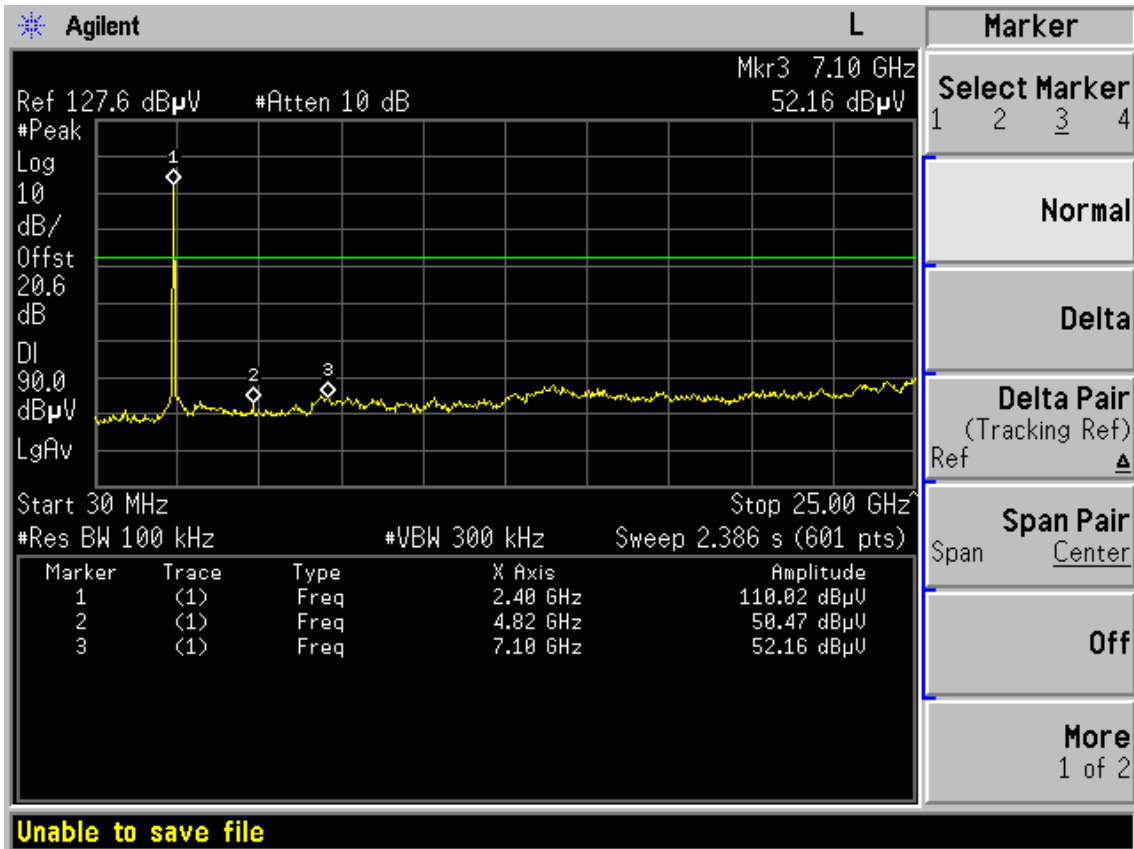
PASS (The testing data was attached in the next pages.)

FCC ID: WWMDN4210DV1

Conducted emission test data:

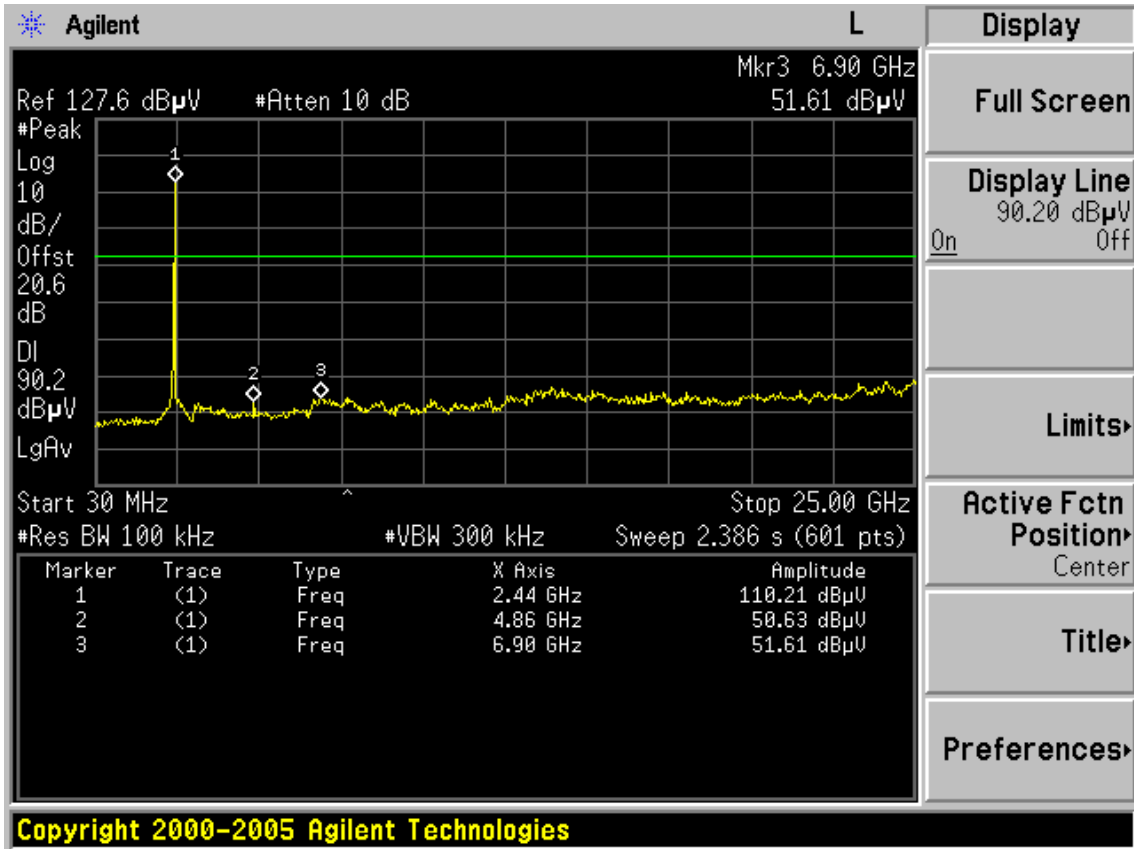
Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz

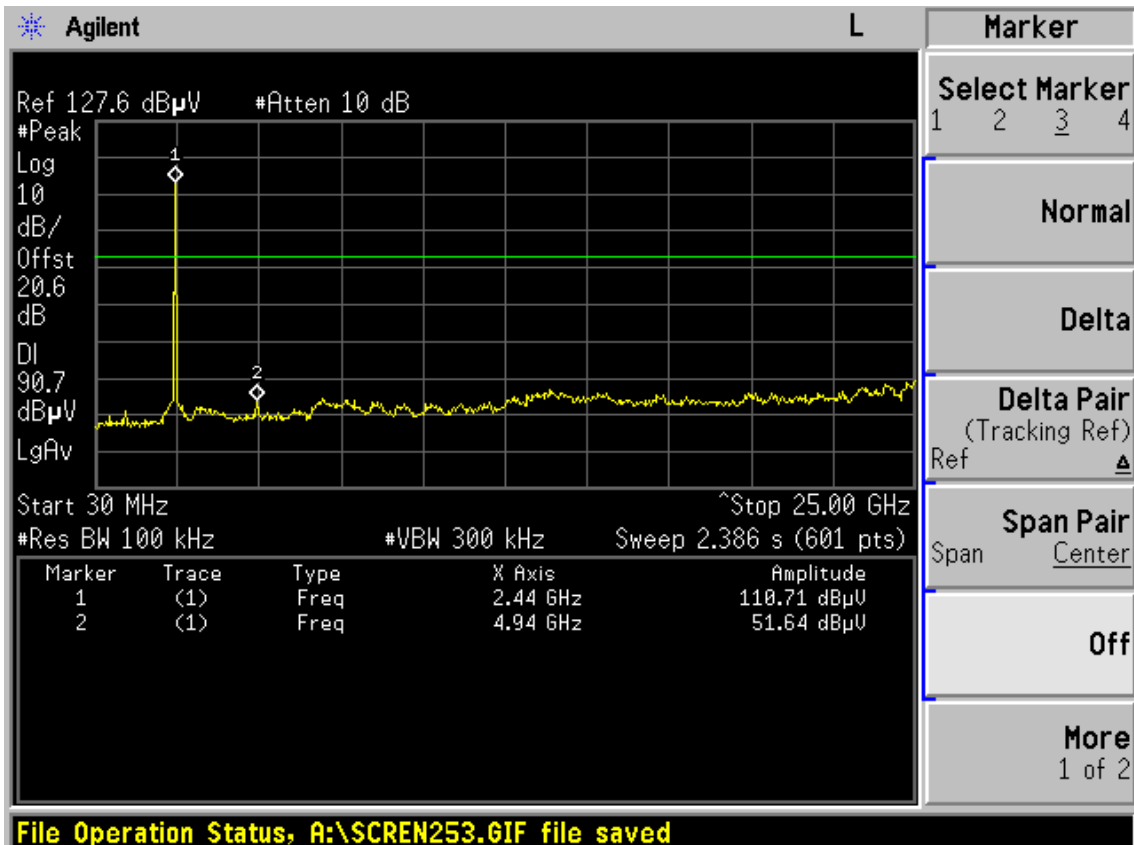


FCC ID: WWMDN4210DV1

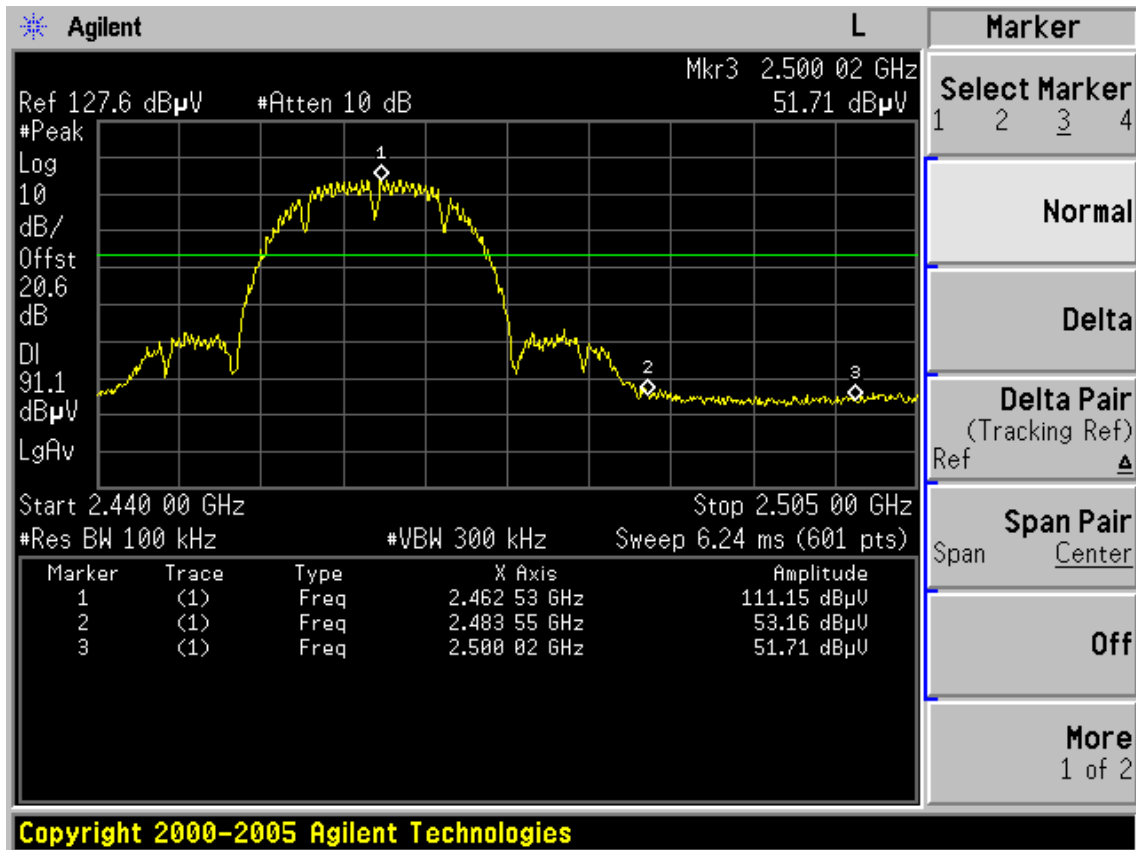
Test CH6: 2437MHz



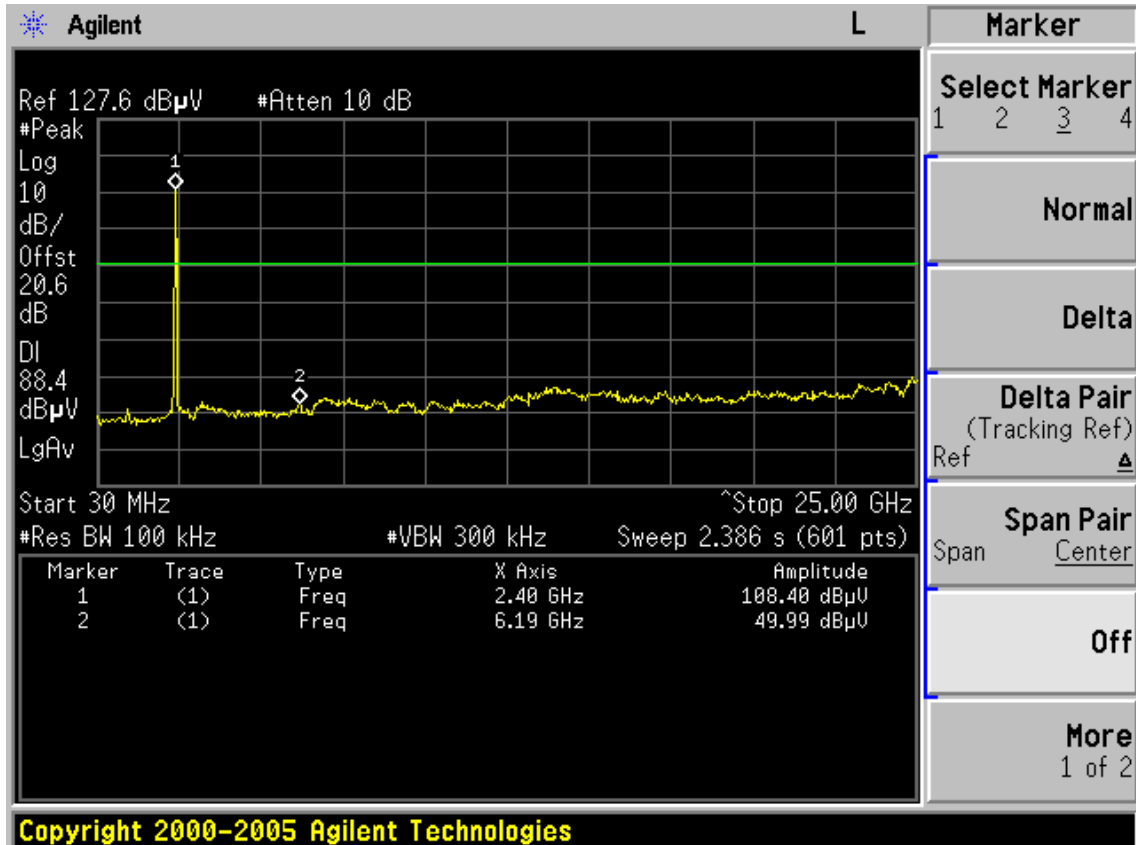
Test CH11: 2462MHz



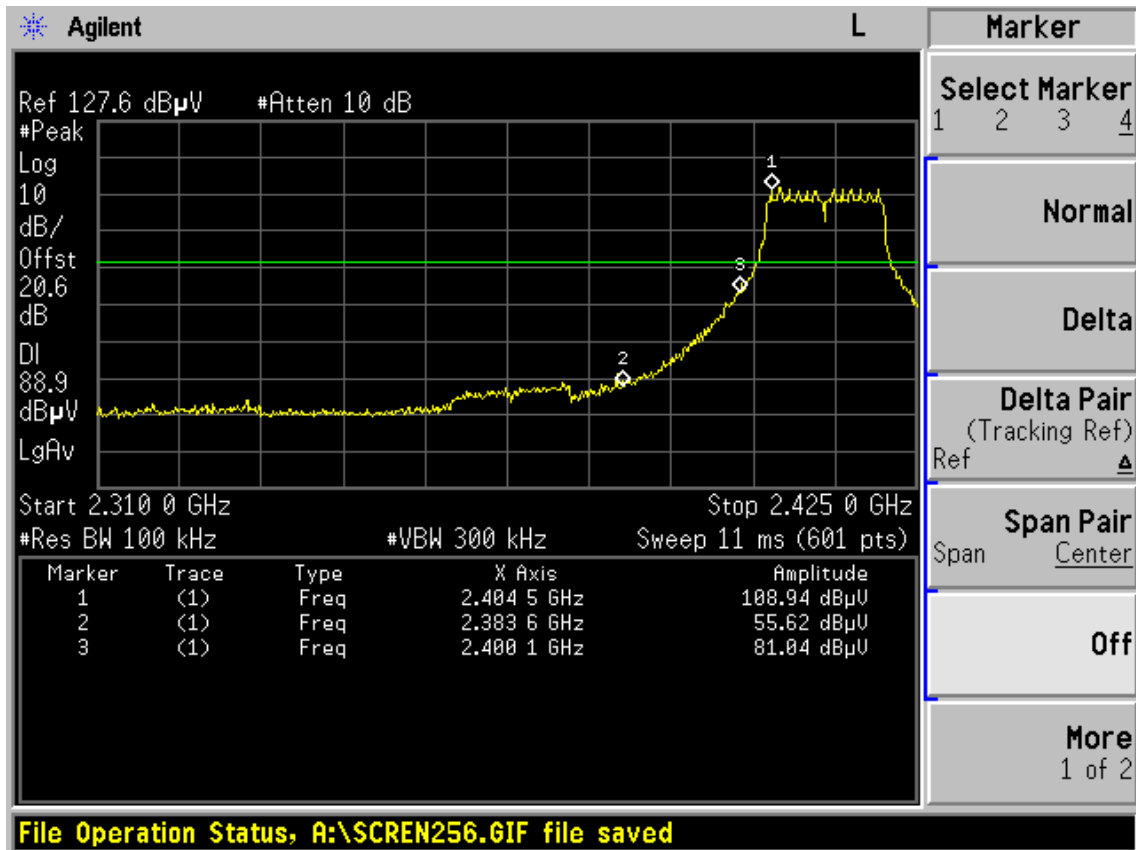
FCC ID: WWMDN4210DV1



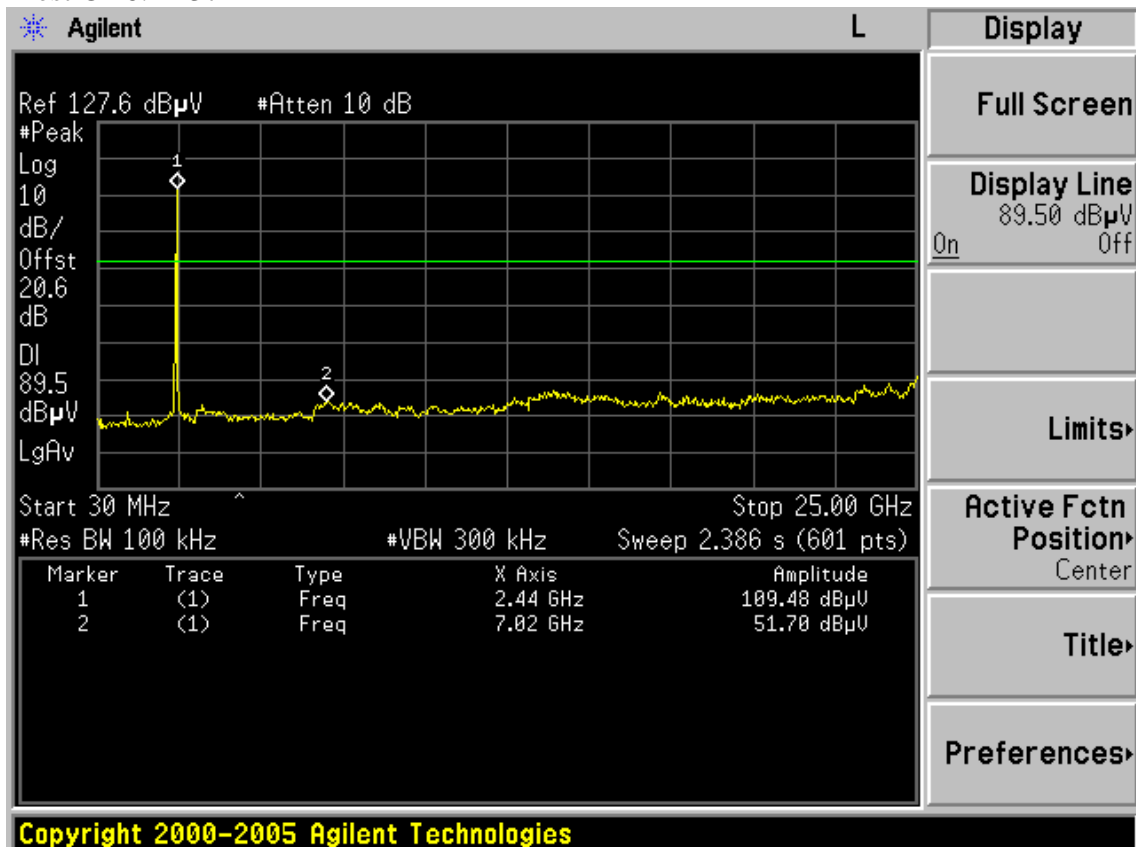
Test Mode: IEEE 802.11g TX
 Test CH1: 2412MHz



FCC ID: WWMDN4210DV1

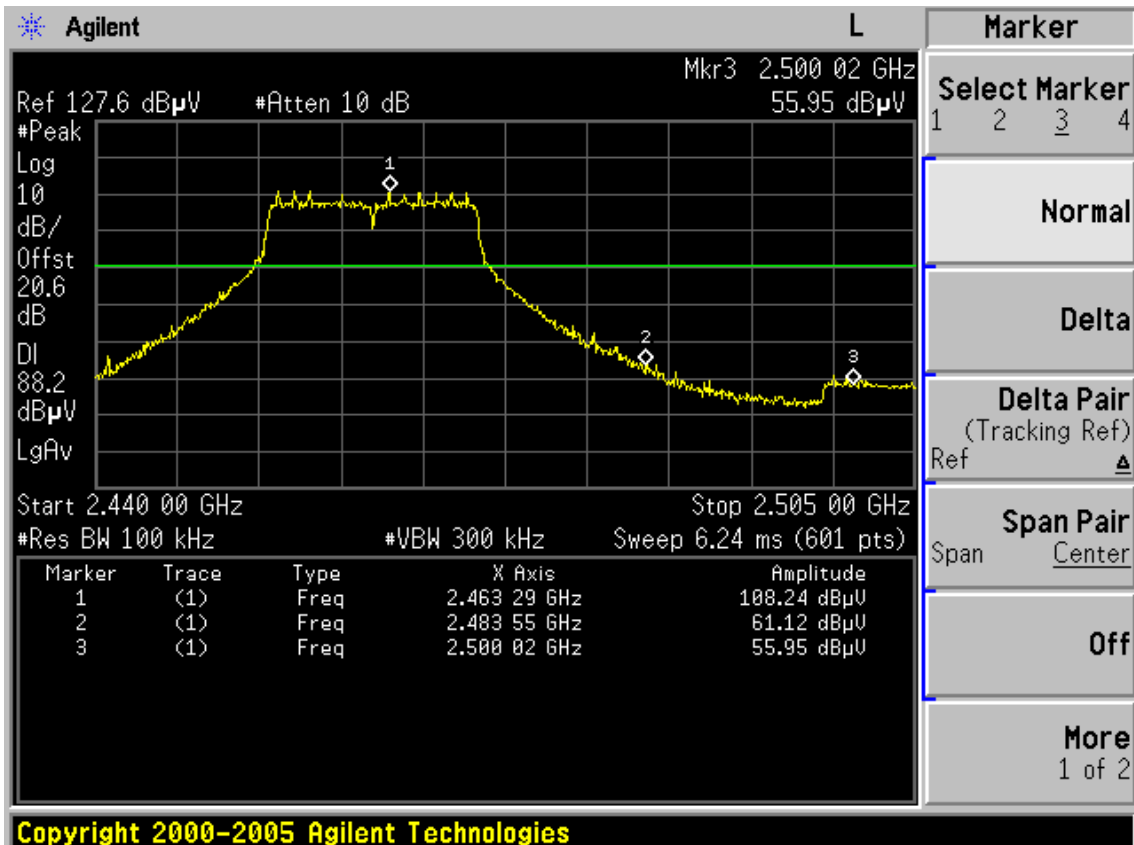
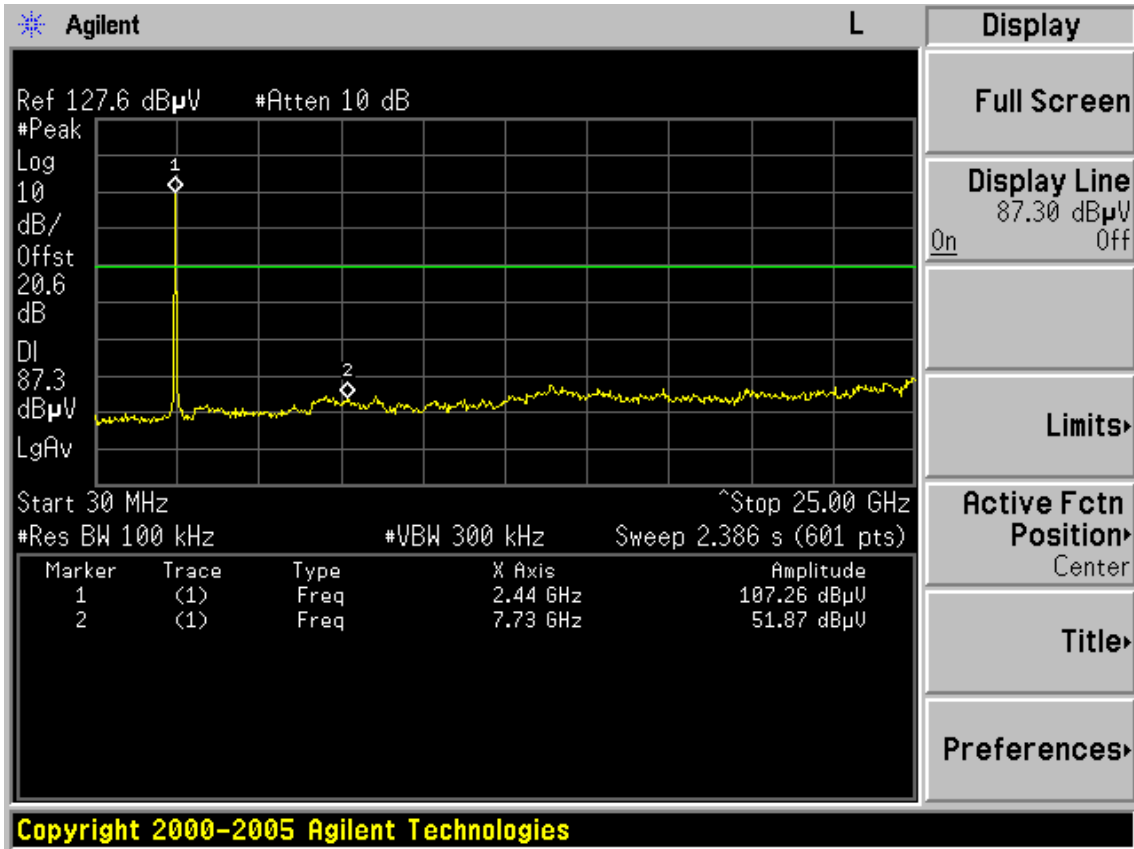


Test CH6: 2437MHz



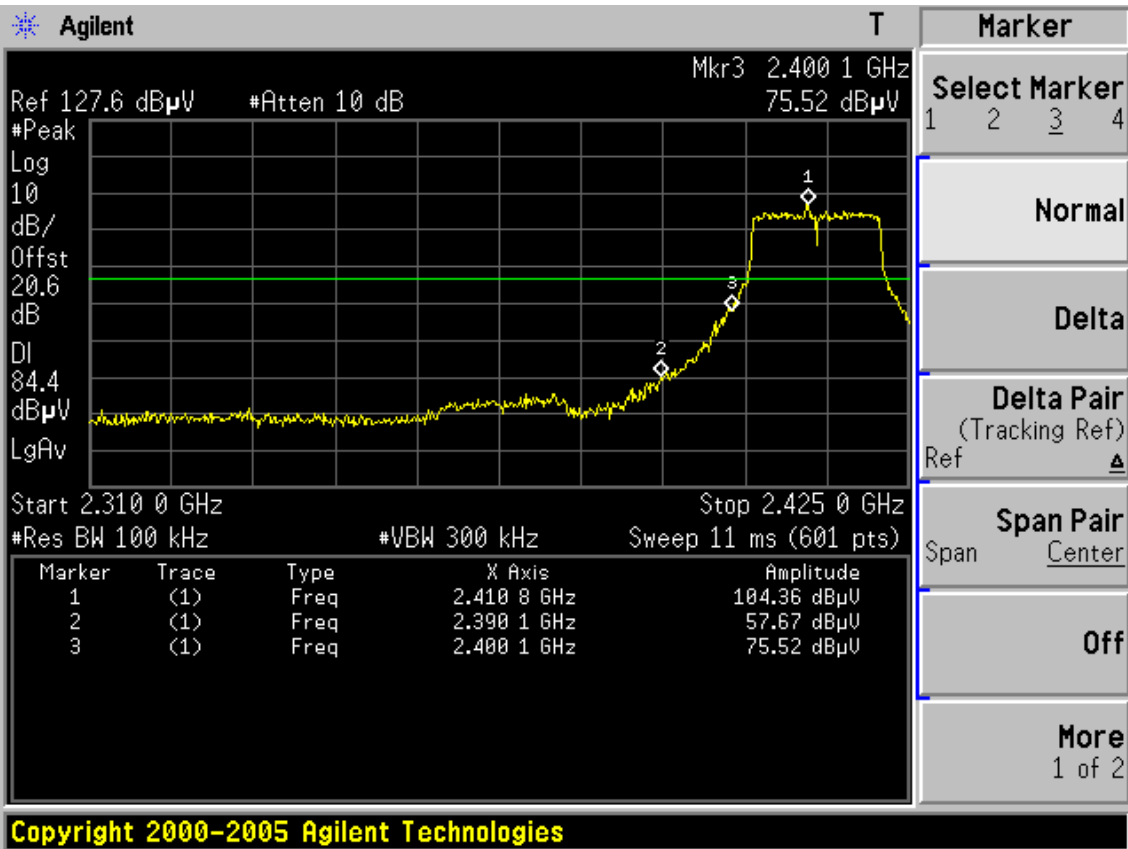
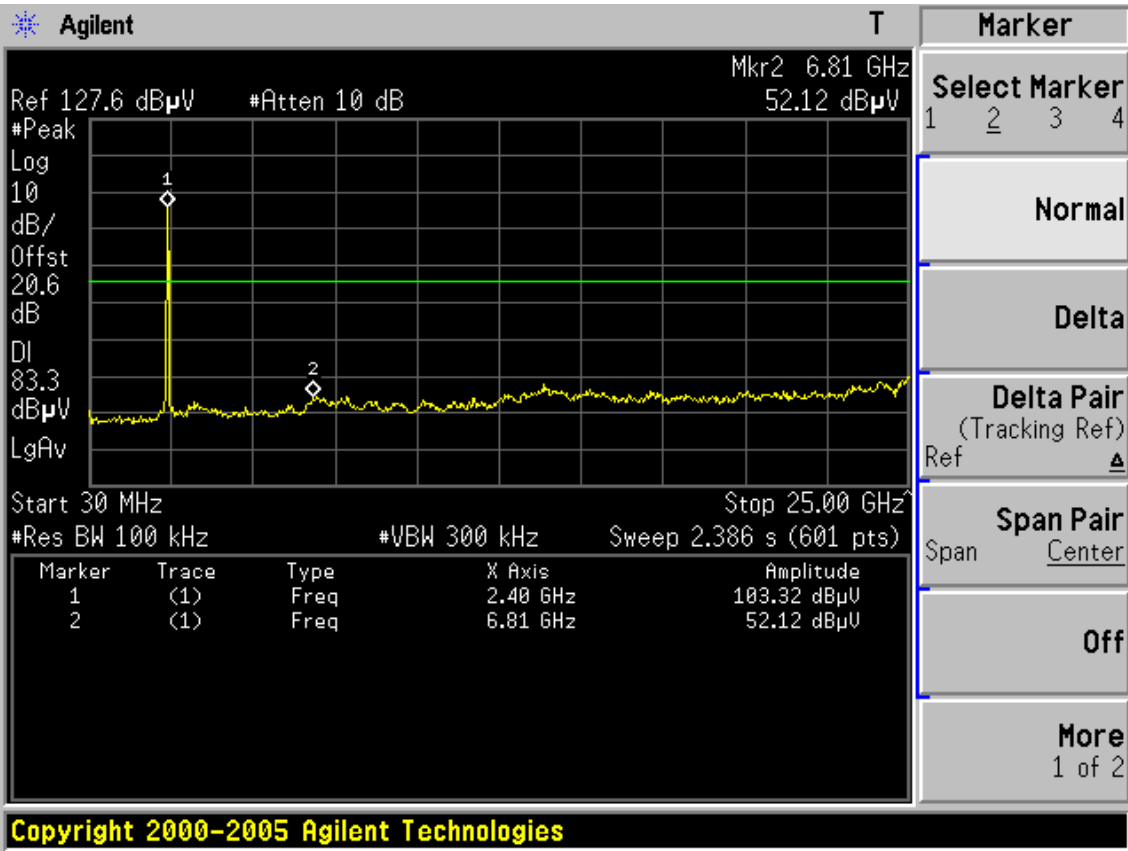
FCC ID: WWMDN4210DV1

Test CH11: 2462MHz



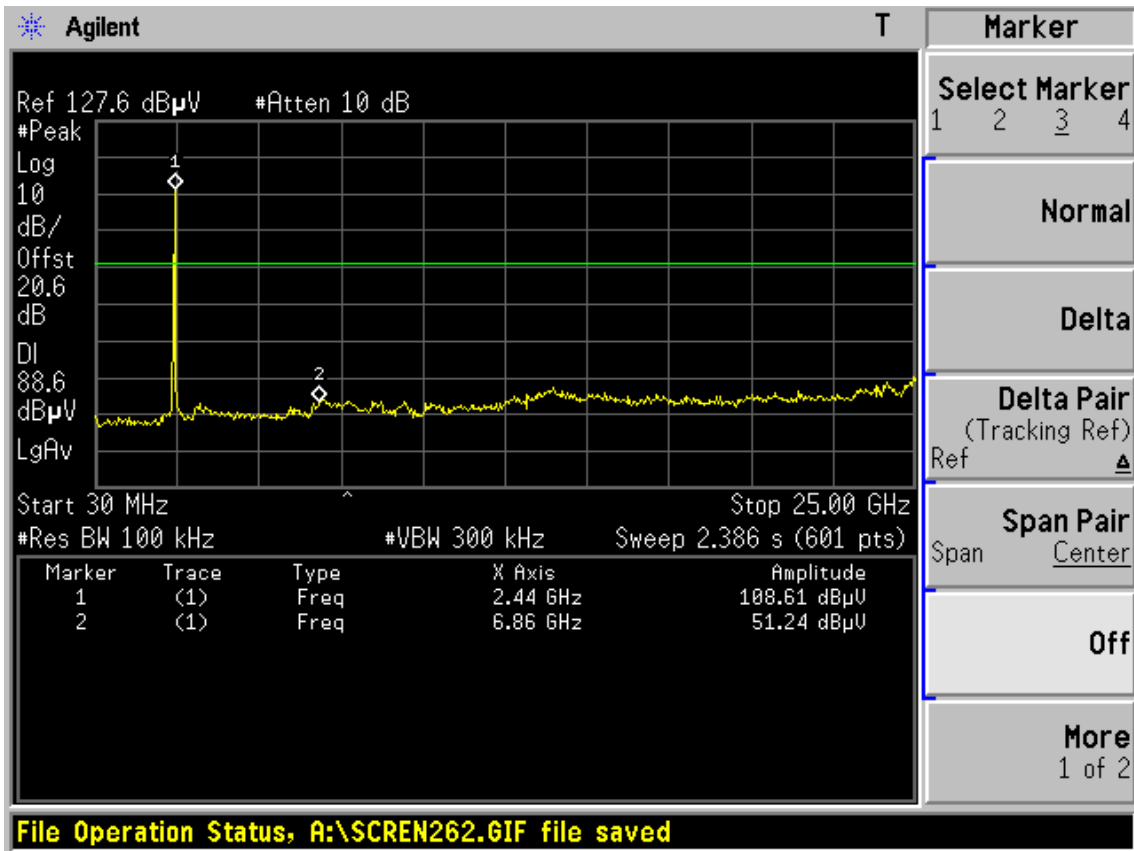
FCC ID: WWMDN4210DV1

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

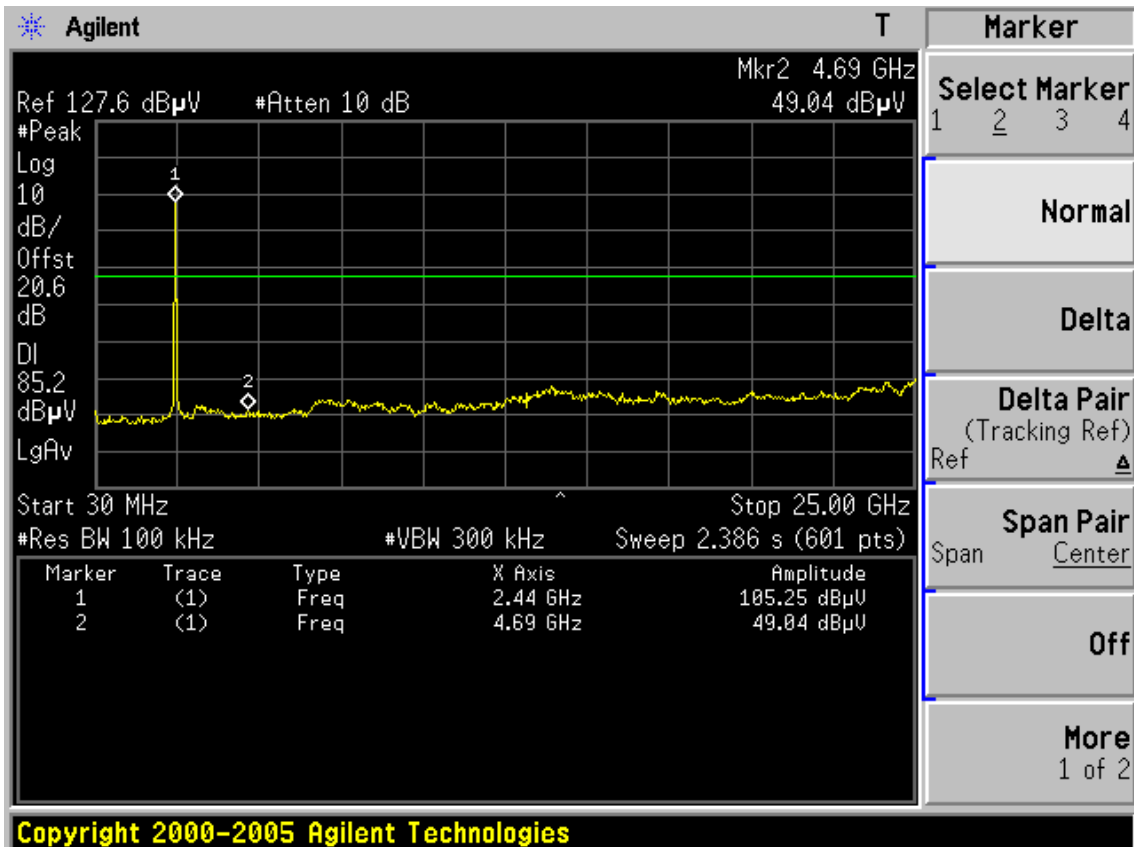


FCC ID: WWMDN4210DV1

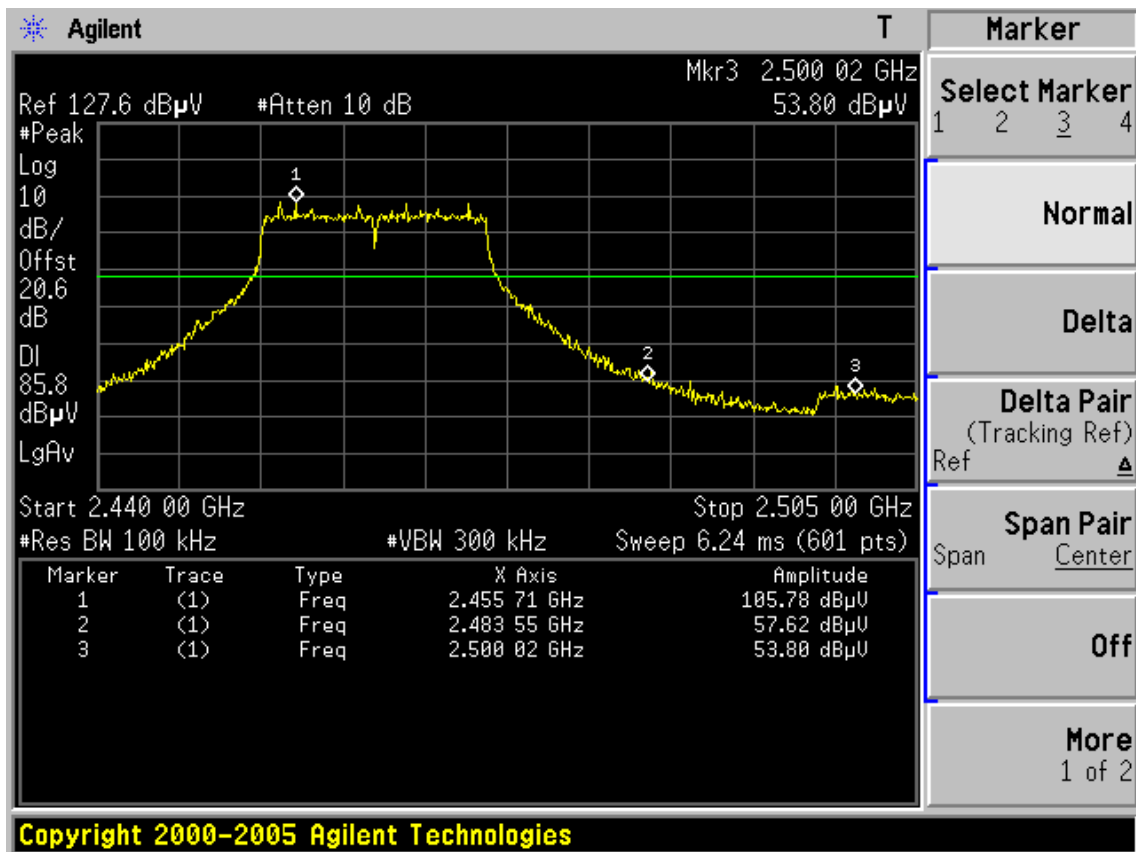
Test CH6: 2437MHz



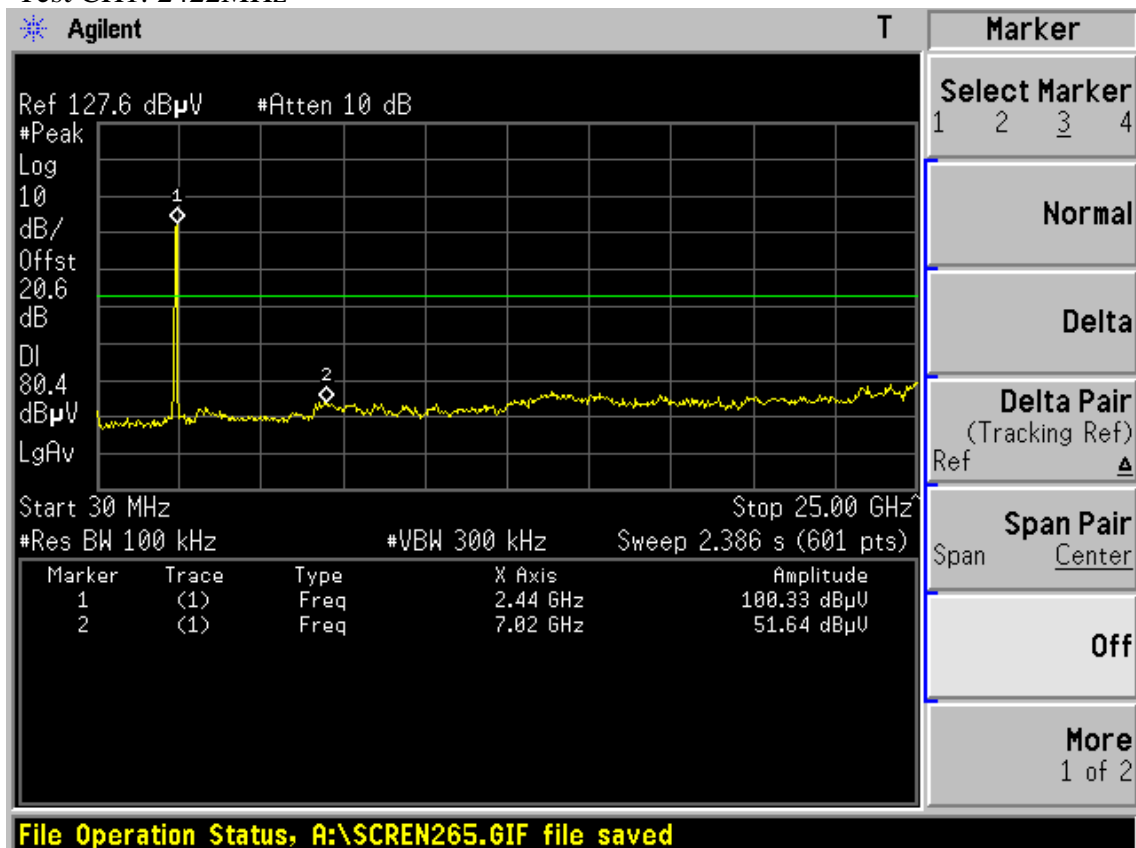
Test CH11: 2462MHz



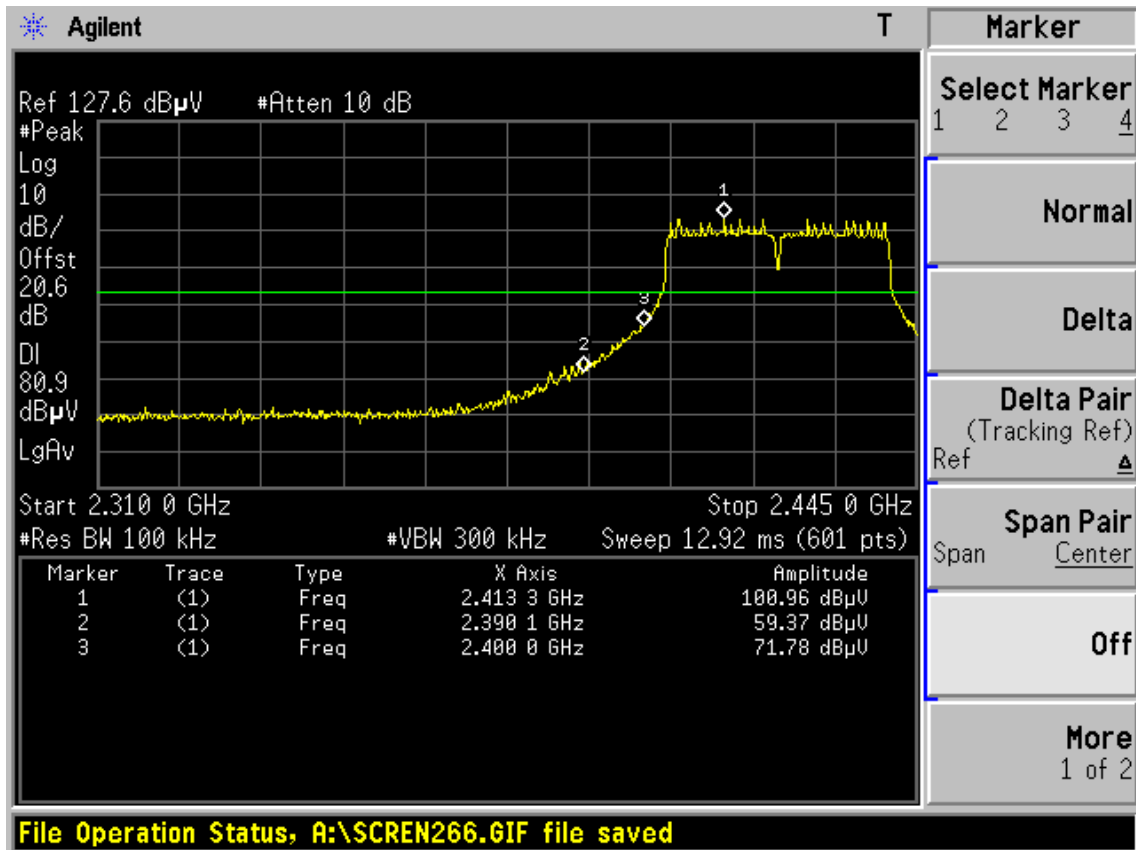
FCC ID: WWMDN4210DV1



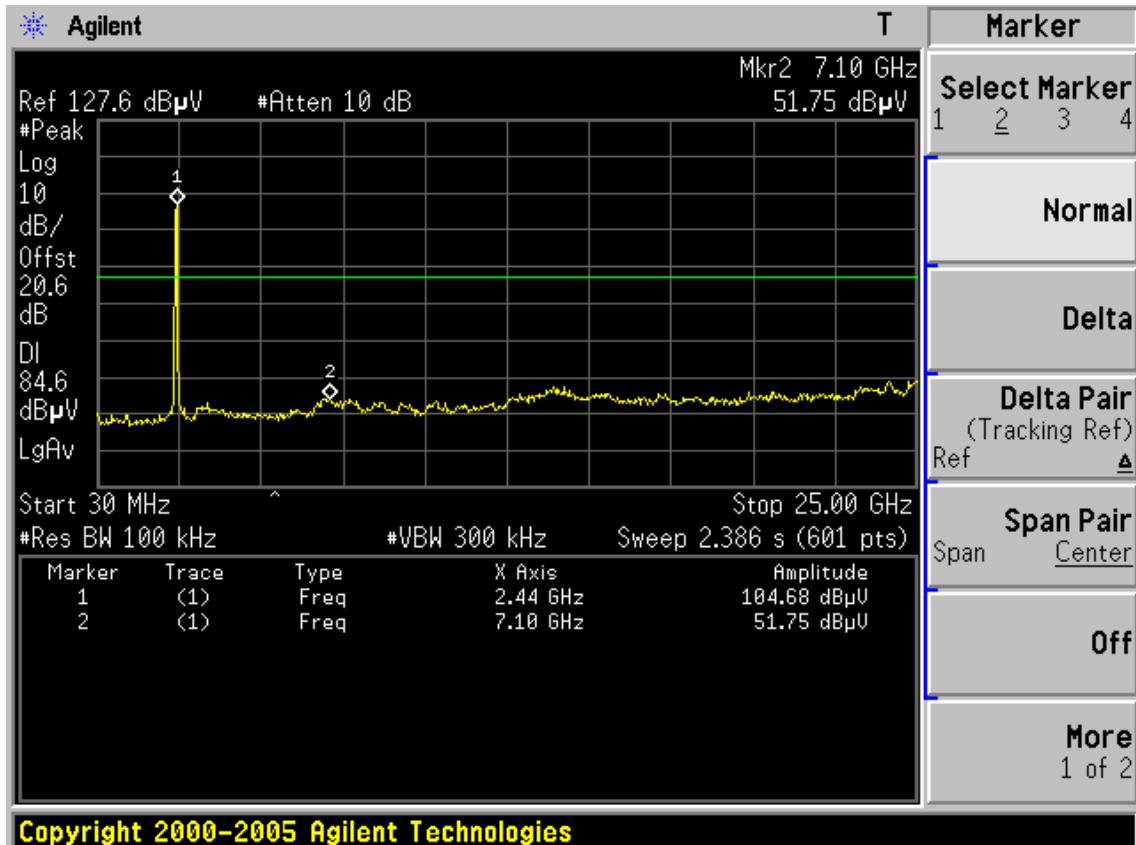
Test Mode: IEEE 802.11n HT40 TX
 Test CH1: 2422MHz



FCC ID: WWMDN4210DV1

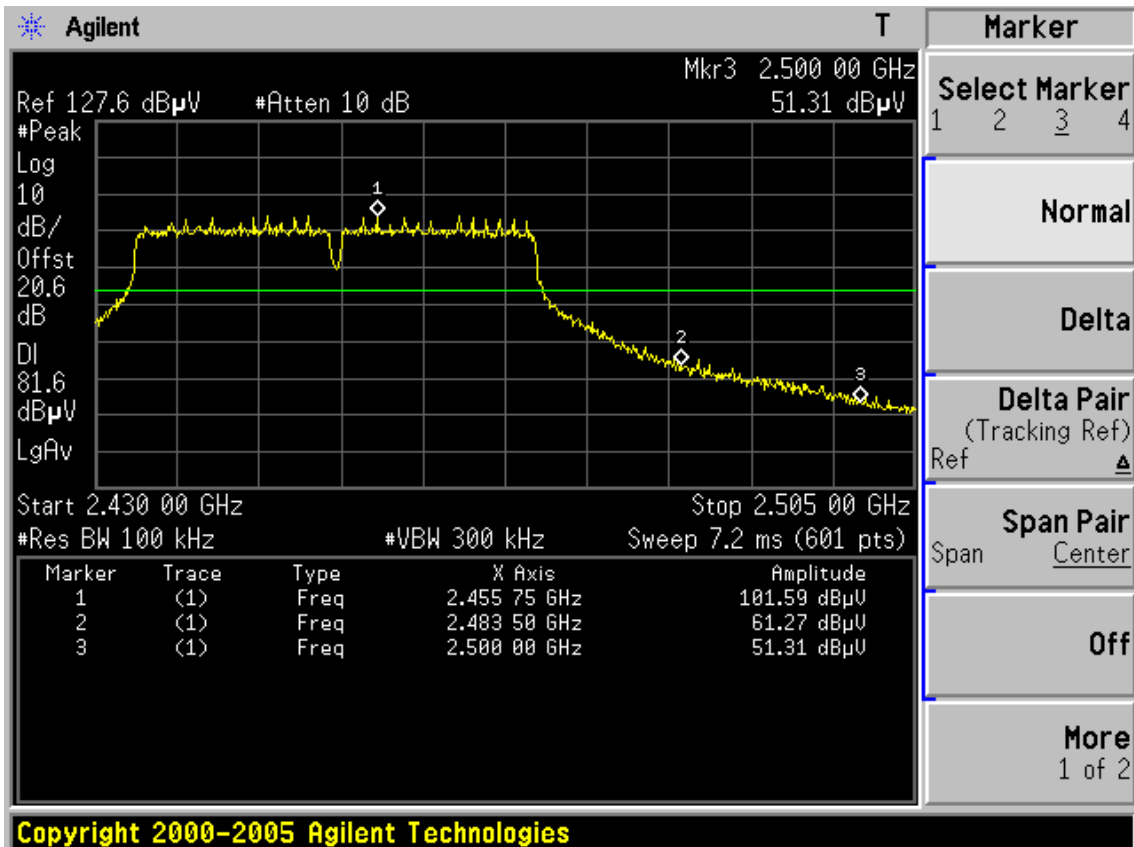
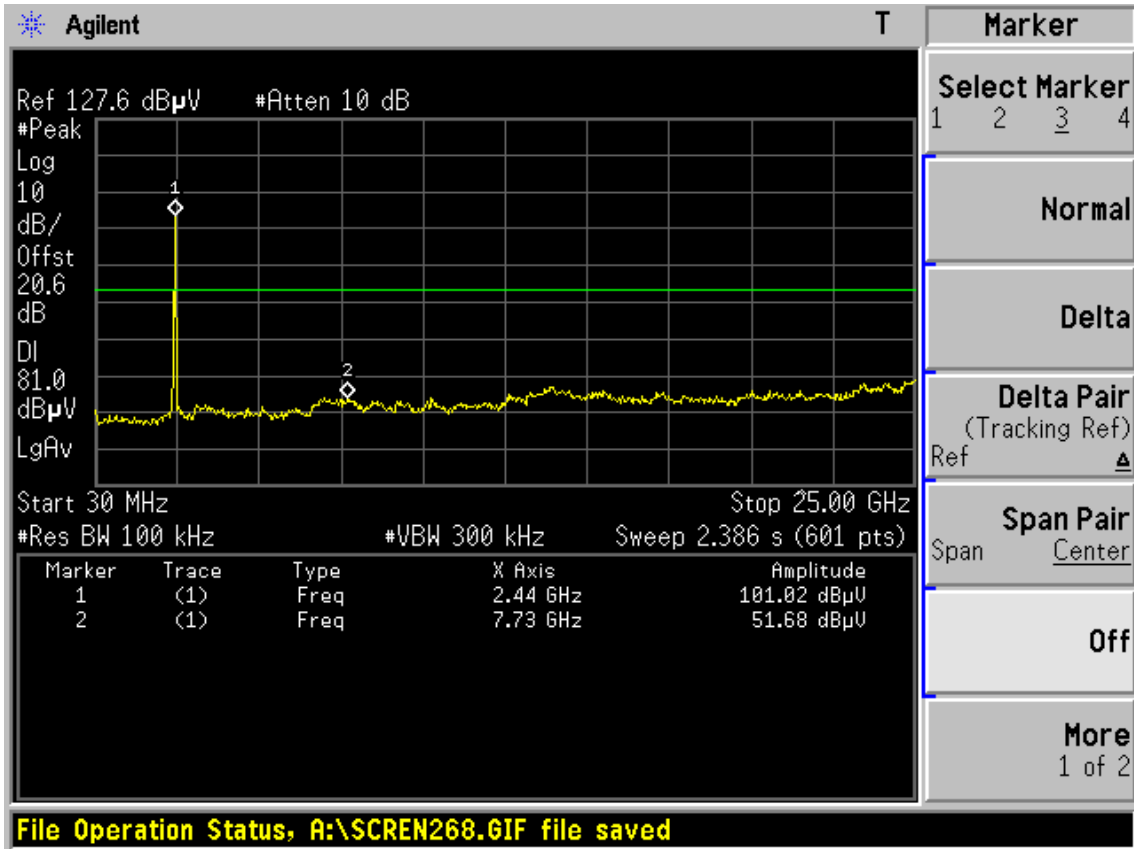


Test CH4: 2437MHz



FCC ID: WWMDN4210DV1

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	Nov.25, 10	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.

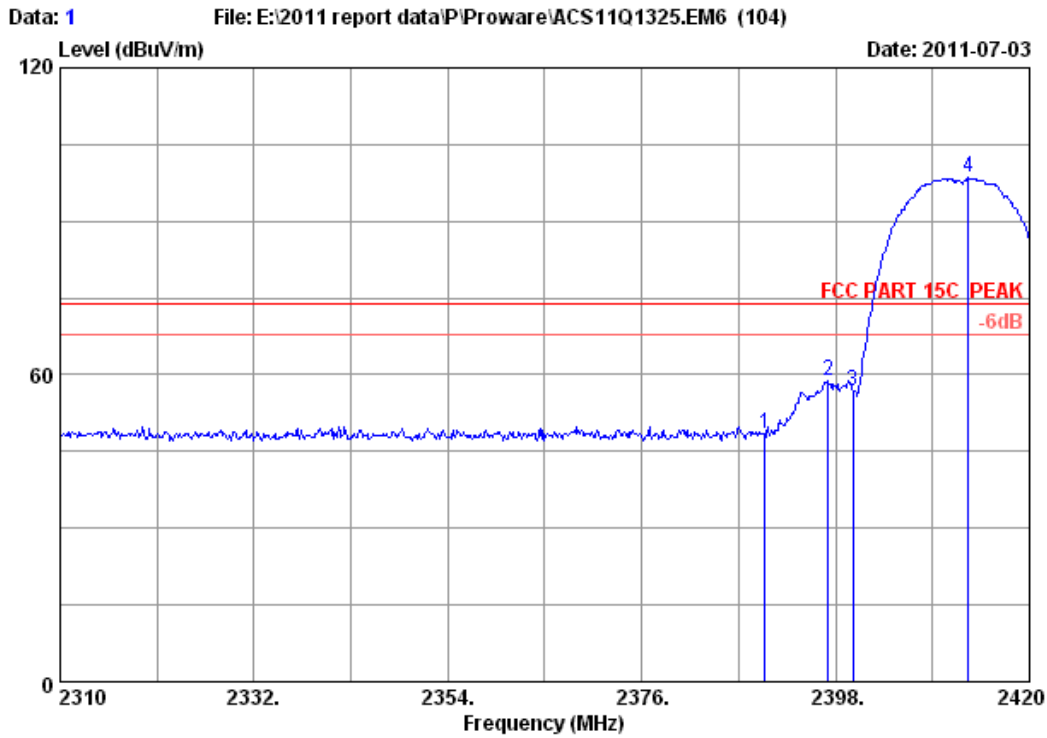
6.3. Test Produce

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.)

FCC ID: WWMDN4210DV1



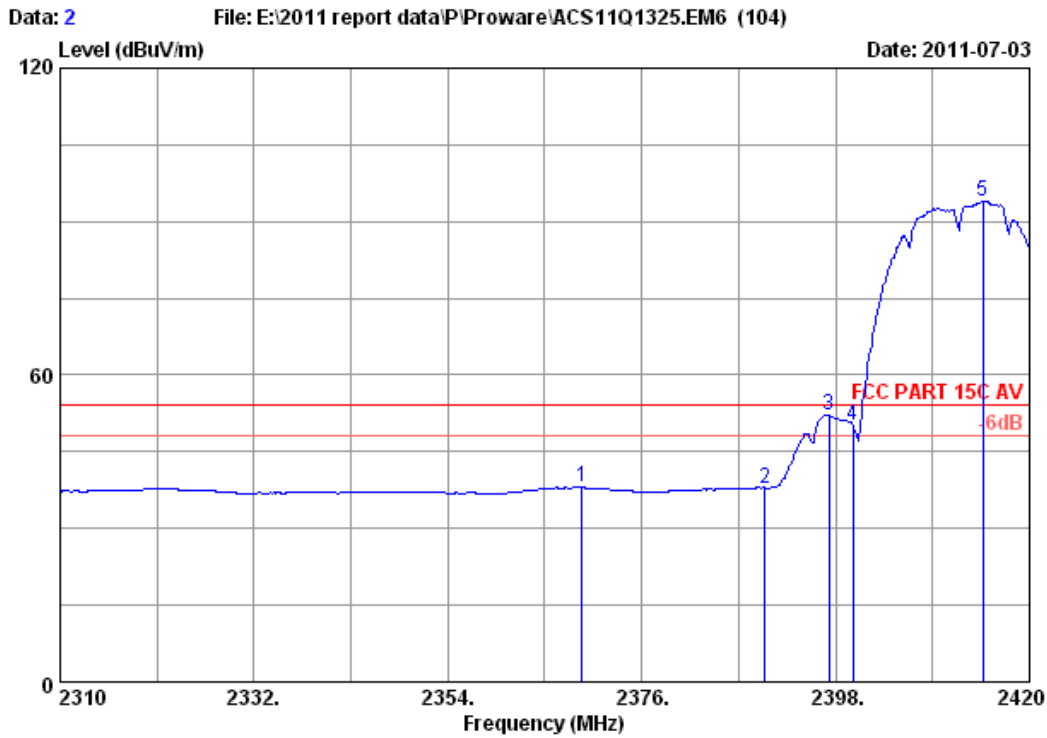
Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : PW-DN4210D

	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	47.75	48.53	74.00	25.47	Peak
2	2397.120	28.46	8.41	36.09	57.92	58.70	74.00	15.30	Peak
3	2400.000	28.46	8.60	36.09	55.74	56.71	74.00	17.29	Peak
4	2413.070	28.48	8.60	35.95	97.32	98.45	74.00	-24.45	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.

FCC ID: WWMDN4210DV1



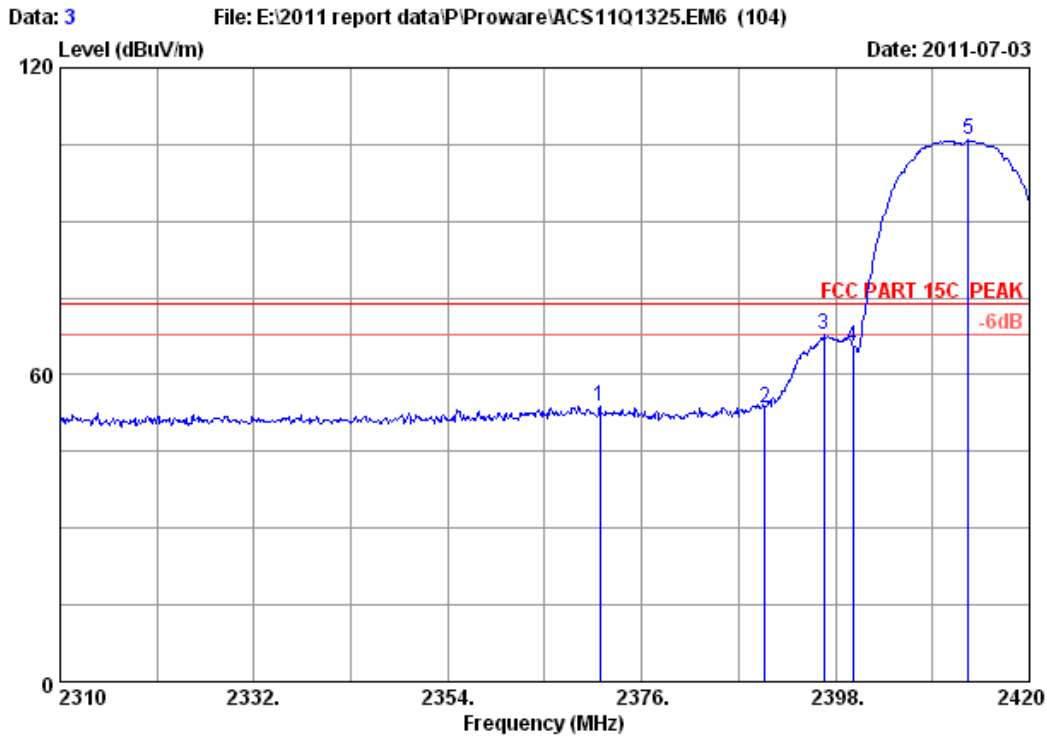
Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : PW-DN4210D

	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	2369.180	28.43	8.44	36.00	37.15	38.02	54.00	15.98	Average
2	2390.000	28.46	8.41	36.09	37.16	37.94	54.00	16.06	Average
3	2397.230	28.46	8.41	36.09	51.29	52.07	54.00	1.93	Average
4	2400.000	28.46	8.60	36.09	49.06	50.03	54.00	3.97	Average
5	2414.720	28.48	8.60	35.95	92.79	93.92	54.00	-39.92	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.

FCC ID: WWMDN4210DV1



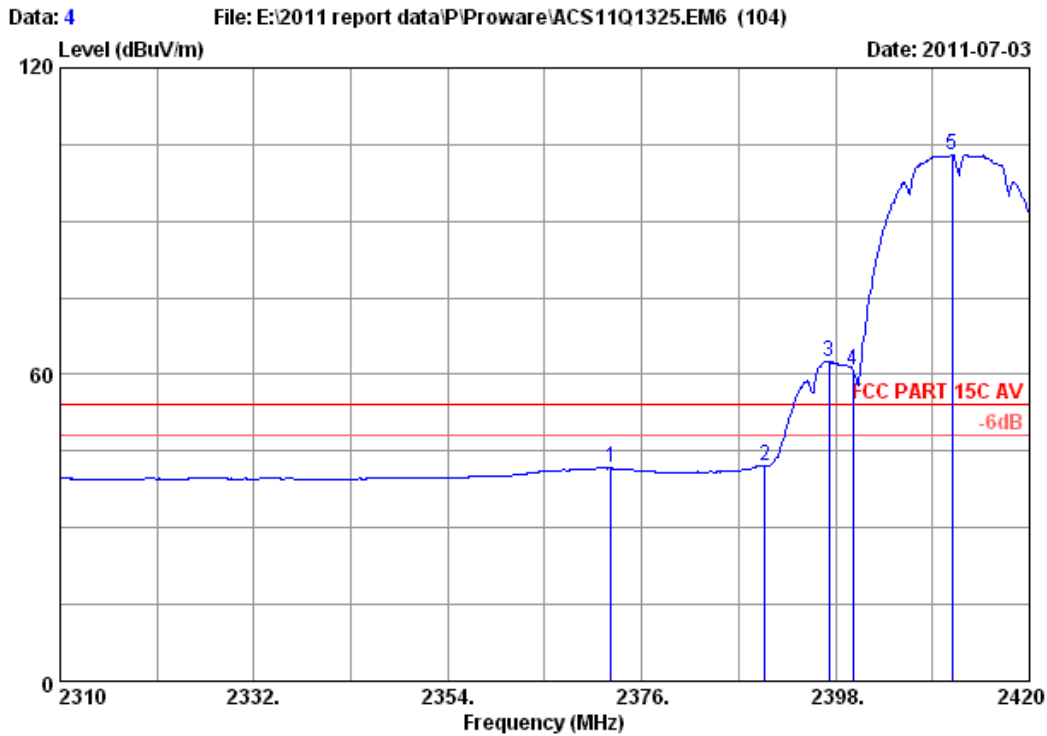
Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : PW-DN4210D

	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	2371.270	28.43	8.44	36.00	53.09	53.96	74.00	20.04	Peak
2	2390.000	28.46	8.41	36.09	52.67	53.45	74.00	20.55	Peak
3	2396.680	28.46	8.41	36.09	67.08	67.86	74.00	6.14	Peak
4	2400.000	28.46	8.60	36.09	64.48	65.45	74.00	8.55	Peak
5	2413.070	28.48	8.60	35.95	104.71	105.84	74.00	-31.84	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.

FCC ID: WWMDN4210DV1



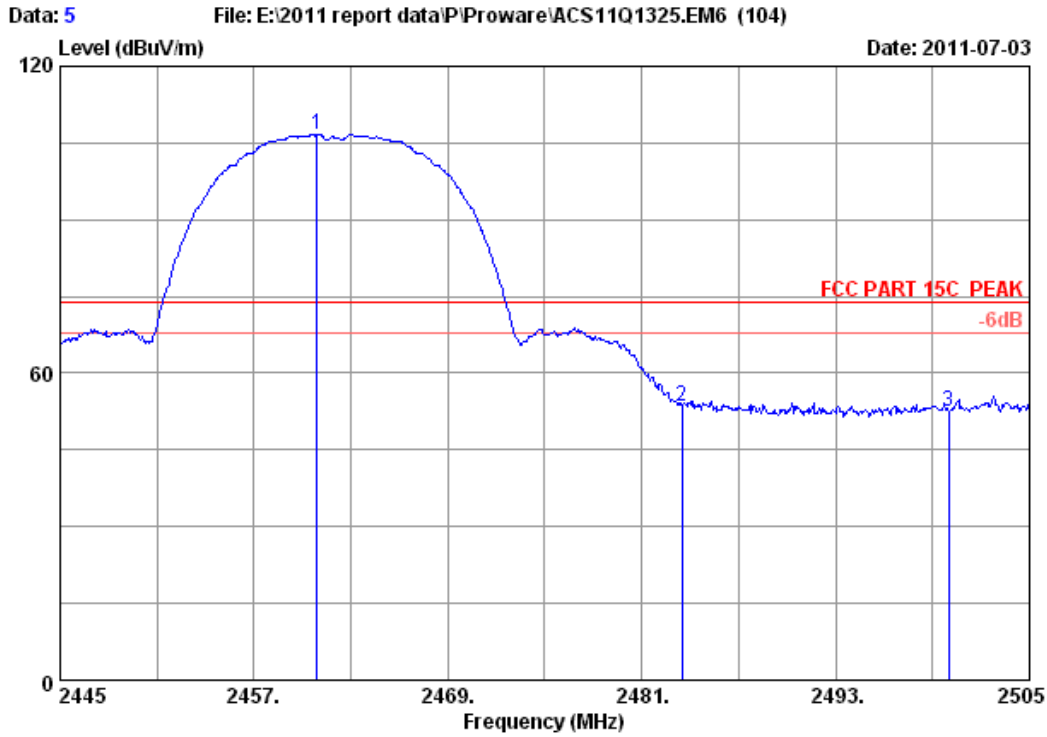
Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : PW-DN4210D

	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	2372.480	28.43	8.44	36.00	40.91	41.78	54.00	12.22	Average
2	2390.000	28.46	8.41	36.09	41.26	42.04	54.00	11.96	Average
3	2397.230	28.46	8.41	36.09	61.78	62.56	54.00	-8.56	Average
4	2400.000	28.46	8.60	36.09	59.93	60.90	54.00	-6.90	Average
5	2411.200	28.48	8.60	35.95	101.92	103.05	54.00	-49.05	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.

FCC ID: WWMDN4210DV1



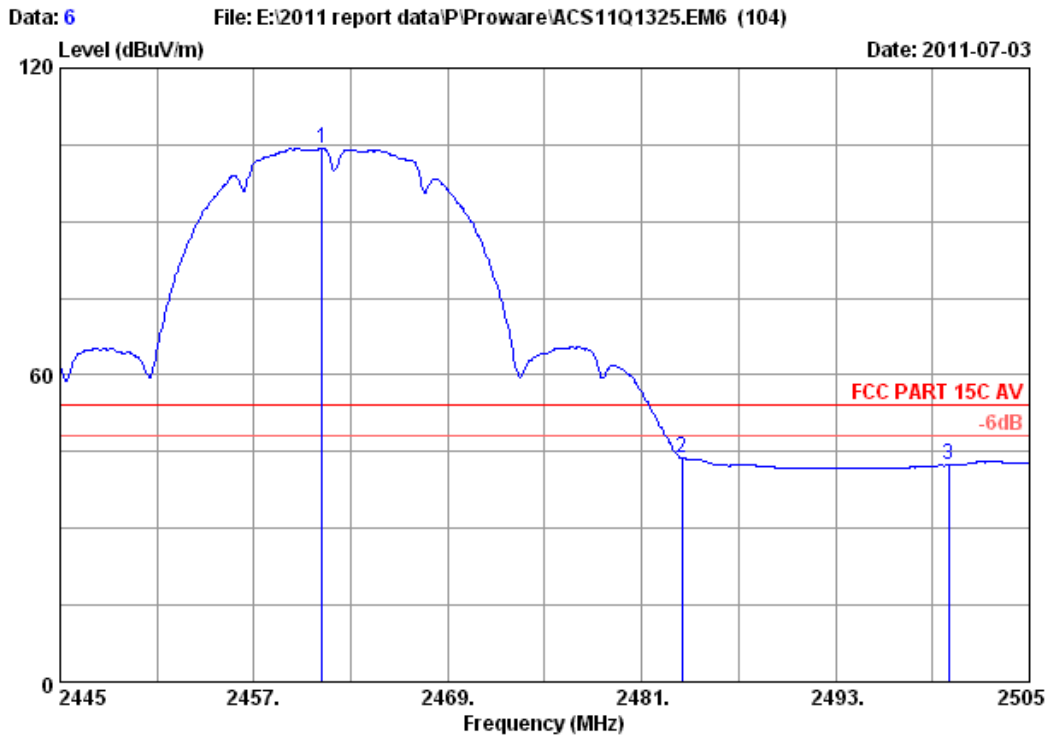
Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : PW-DN4210D

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.900	28.55	8.76	36.02	105.37	106.66	74.00	-32.66	Peak
2	2483.500	28.58	8.94	35.97	51.92	53.47	74.00	20.53	Peak
3	2500.000	28.60	8.89	36.00	51.07	52.56	74.00	21.44	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.

FCC ID: WWMDN4210DV1



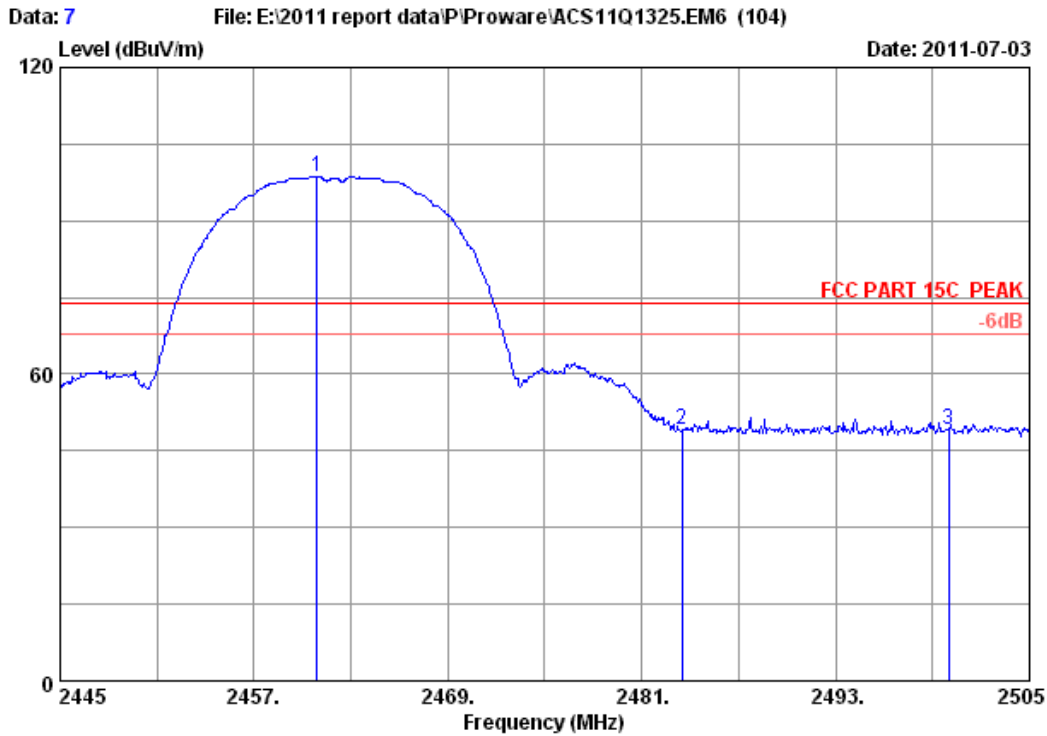
Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : PW-DN4210D

	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	2461.200	28.55	8.76	36.02	103.09	104.38	54.00	-50.38	Average
2	2483.500	28.58	8.94	35.97	42.12	43.67	54.00	10.33	Average
3	2500.000	28.60	8.89	36.00	40.90	42.39	54.00	11.61	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.

FCC ID: WWMDN4210DV1



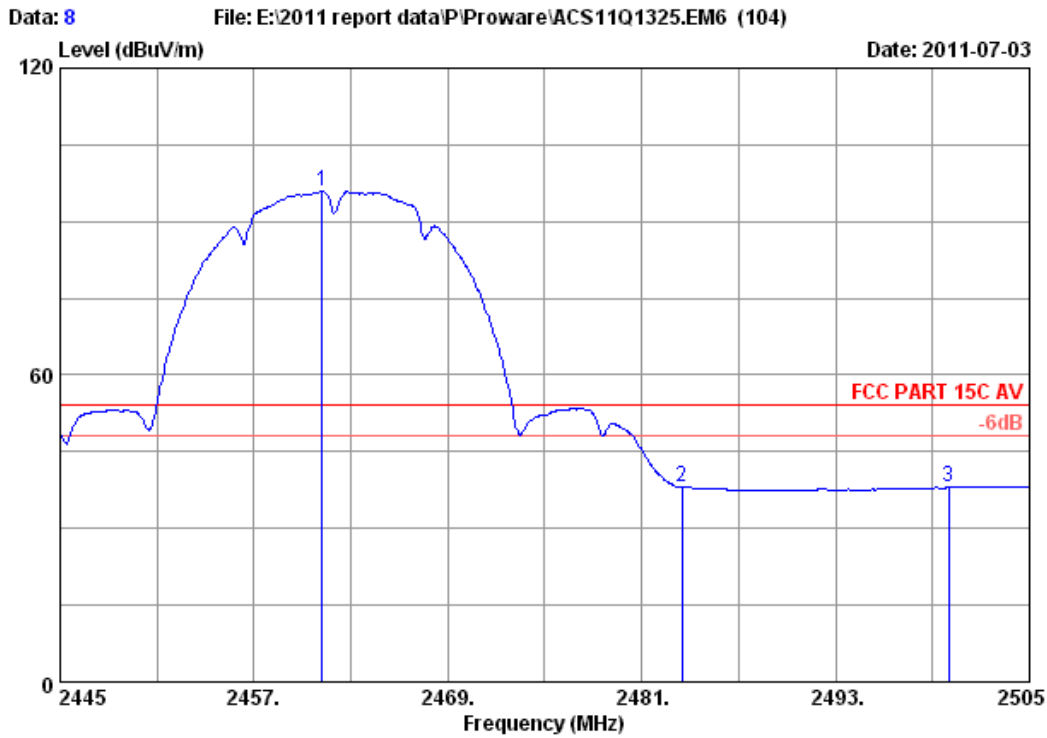
Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : PW-DN4210D

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.900	28.55	8.76	36.02	97.38	98.67	74.00	-24.67	Peak
2	2483.500	28.58	8.94	35.97	47.46	49.01	74.00	24.99	Peak
3	2500.000	28.60	8.89	36.00	47.62	49.11	74.00	24.89	Peak

Remarks:

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

FCC ID: WWMDN4210DV1



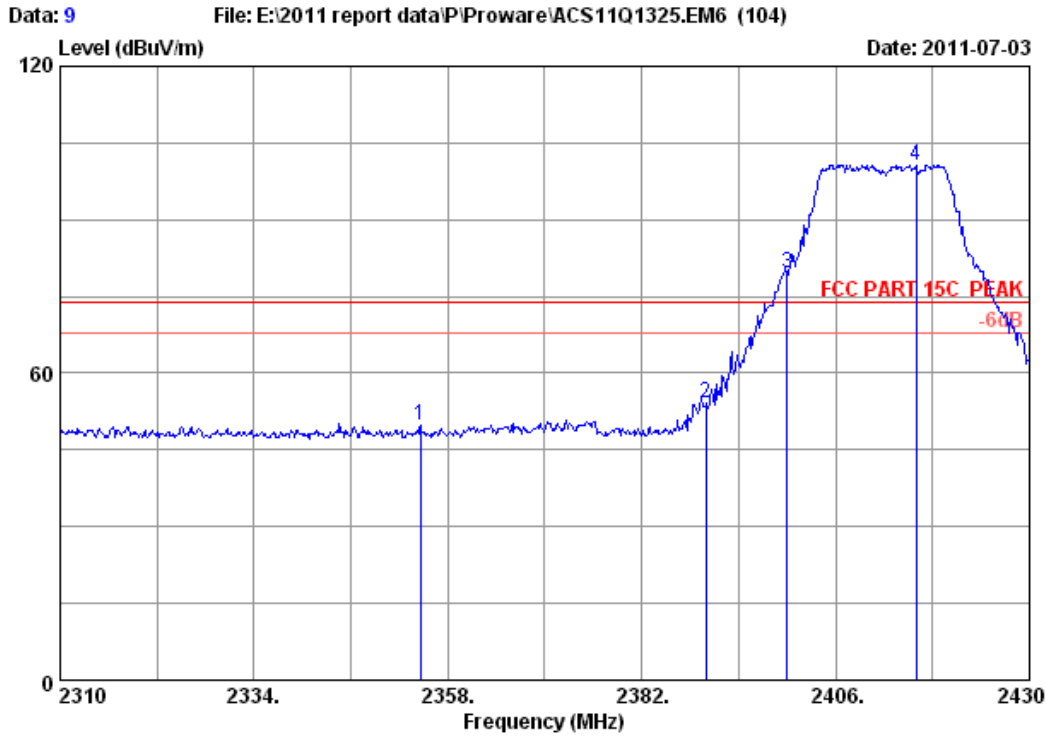
Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : PW-DN4210D

	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	2461.200	28.55	8.76	36.02	94.64	95.93	54.00	-41.93	Average
2	2483.500	28.58	8.94	35.97	36.53	38.08	54.00	15.92	Average
3	2500.000	28.60	8.89	36.00	36.47	37.96	54.00	16.04	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.

FCC ID: WWMDN4210DV1



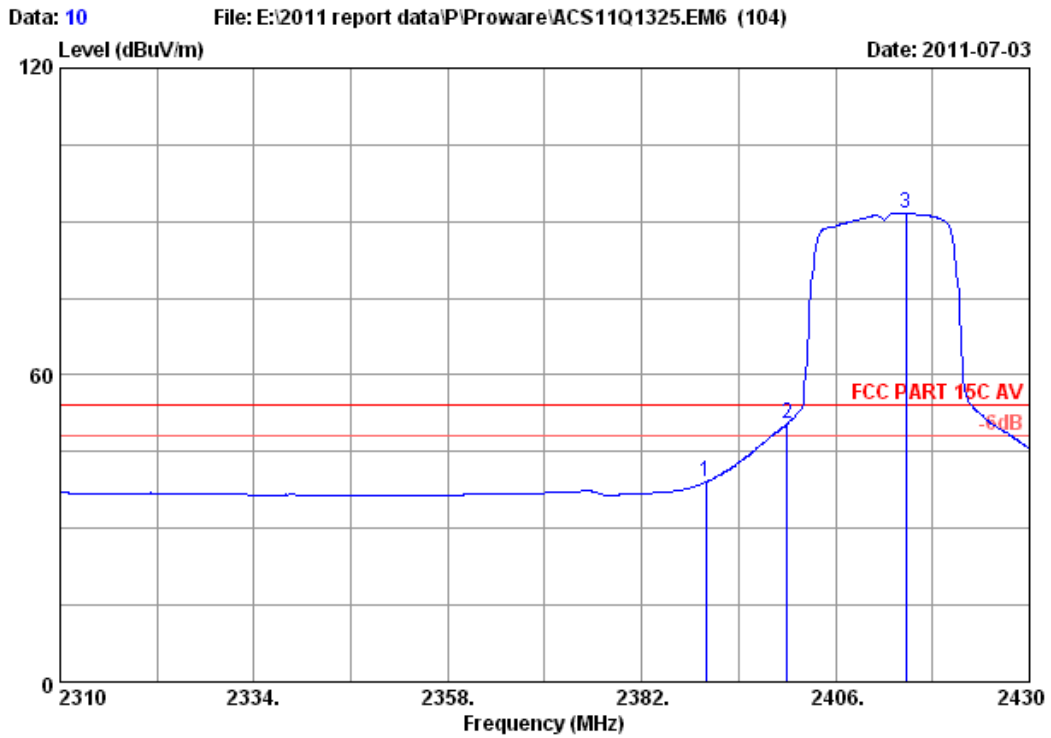
Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : PW-DN4210D

	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	2354.640	28.41	8.57	35.91	48.81	49.88	74.00	24.12	Peak
2	2390.000	28.46	8.41	36.09	53.34	54.12	74.00	19.88	Peak
3	2400.000	28.46	8.60	36.09	78.73	79.70	74.00	-5.70	Peak
4	2415.960	28.48	8.60	35.95	99.65	100.78	74.00	-26.78	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.

FCC ID: WWMDN4210DV1



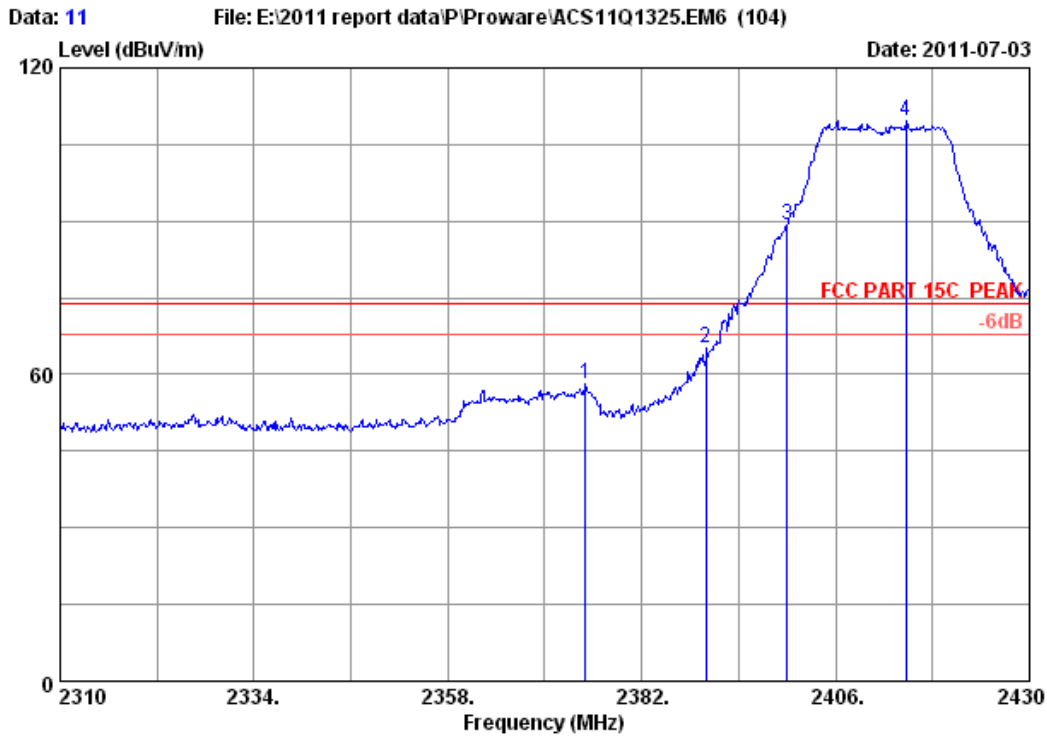
Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : PW-DN4210D

	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	38.37	39.15	54.00	14.85	Average
2	2400.000	28.46	8.60	36.09	49.45	50.42	54.00	3.58	Average
3	2414.760	28.48	8.60	35.95	90.49	91.62	54.00	-37.62	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.

FCC ID: WWMDN4210DV1



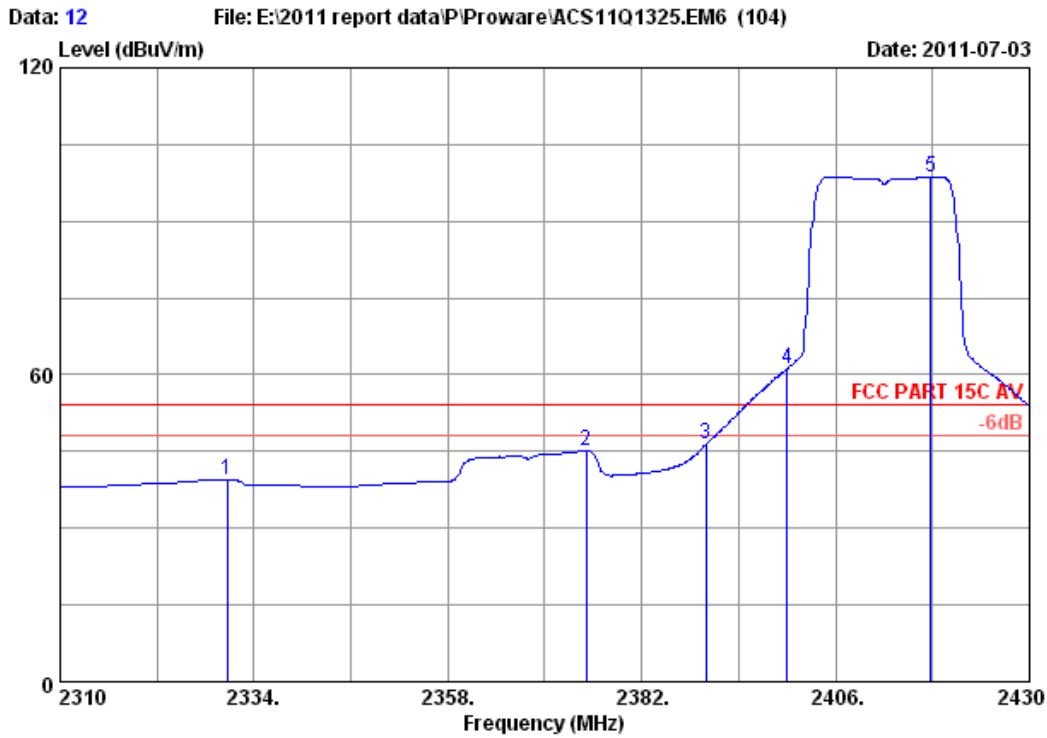
Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : PW-DN4210D

	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	2375.040	28.43	8.44	36.00	57.19	58.06	74.00	15.94	Peak
2	2390.000	28.46	8.41	36.09	64.45	65.23	74.00	8.77	Peak
3	2400.000	28.46	8.60	36.09	88.26	89.23	74.00	-15.23	Peak
4	2414.760	28.48	8.60	35.95	108.39	109.52	74.00	-35.52	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.

FCC ID: WWMDN4210DV1



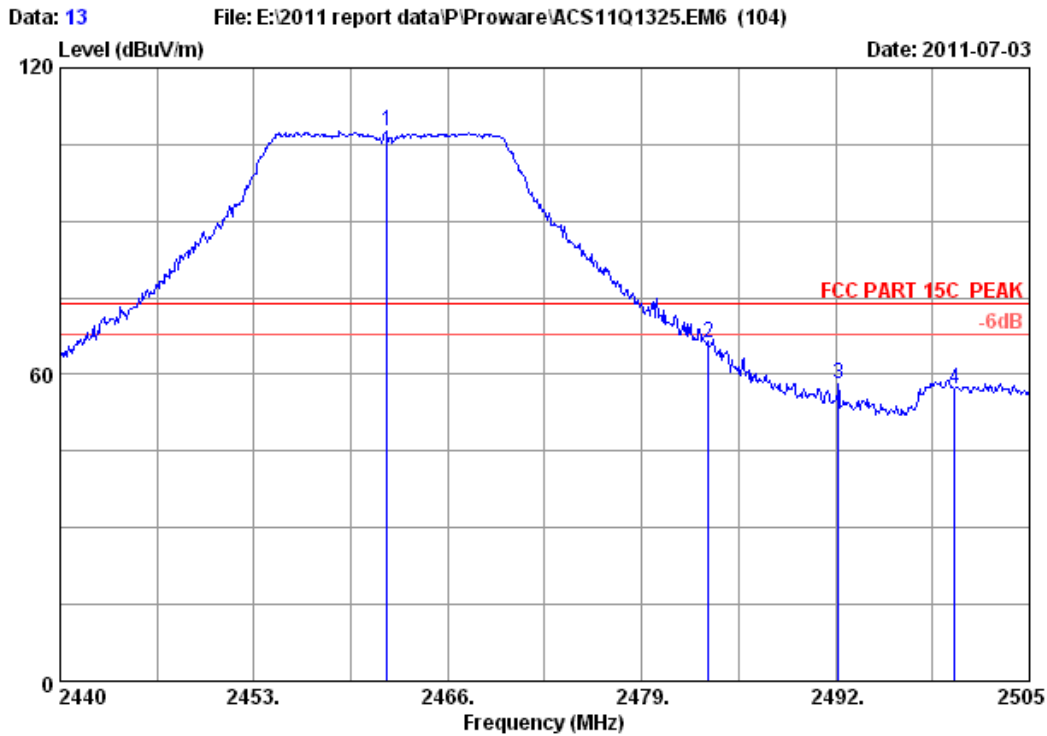
Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : PW-DN4210D

	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	2330.640	28.36	8.64	36.06	38.61	39.55	54.00	14.45	Average
2	2375.160	28.43	8.44	36.00	44.28	45.15	54.00	8.85	Average
3	2390.000	28.46	8.41	36.09	45.68	46.46	54.00	7.54	Average
4	2400.000	28.46	8.60	36.09	60.18	61.15	54.00	-7.15	Average
5	2417.760	28.48	8.60	35.95	97.61	98.74	54.00	-44.74	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.

FCC ID: WWMDN4210DV1



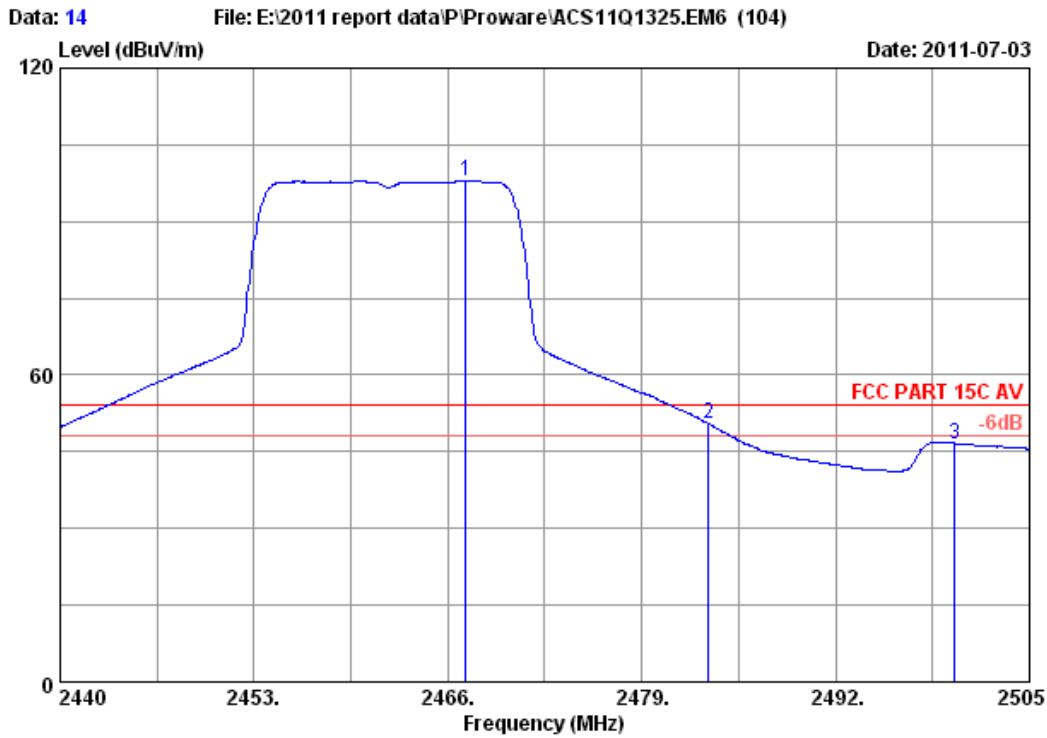
Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : PW-DN4210D

	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	2461.905	28.55	8.76	36.02	106.33	107.62	74.00	-33.62	Peak
2	2483.500	28.58	8.94	35.97	64.53	66.08	74.00	7.92	Peak
3	2492.195	28.60	8.94	36.00	56.59	58.13	74.00	15.87	Peak
4	2500.000	28.60	8.89	36.00	55.82	57.31	74.00	16.69	Peak

Remarks:

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

FCC ID: WWMDN4210DV1



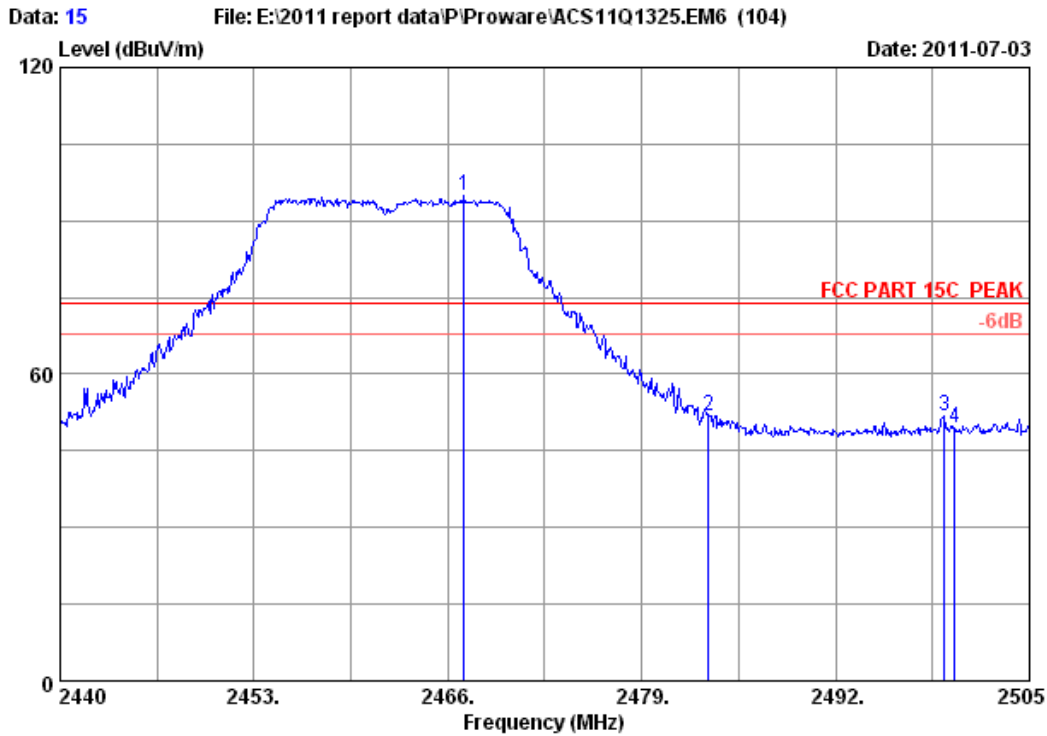
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : PW-DN4210D

	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	2467.170	28.55	8.76	36.02	96.54	97.83	54.00	-43.83	Average
2	2483.500	28.58	8.94	35.97	48.93	50.48	54.00	3.52	Average
3	2500.000	28.60	8.89	36.00	45.11	46.60	54.00	7.40	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.

FCC ID: WWMDN4210DV1



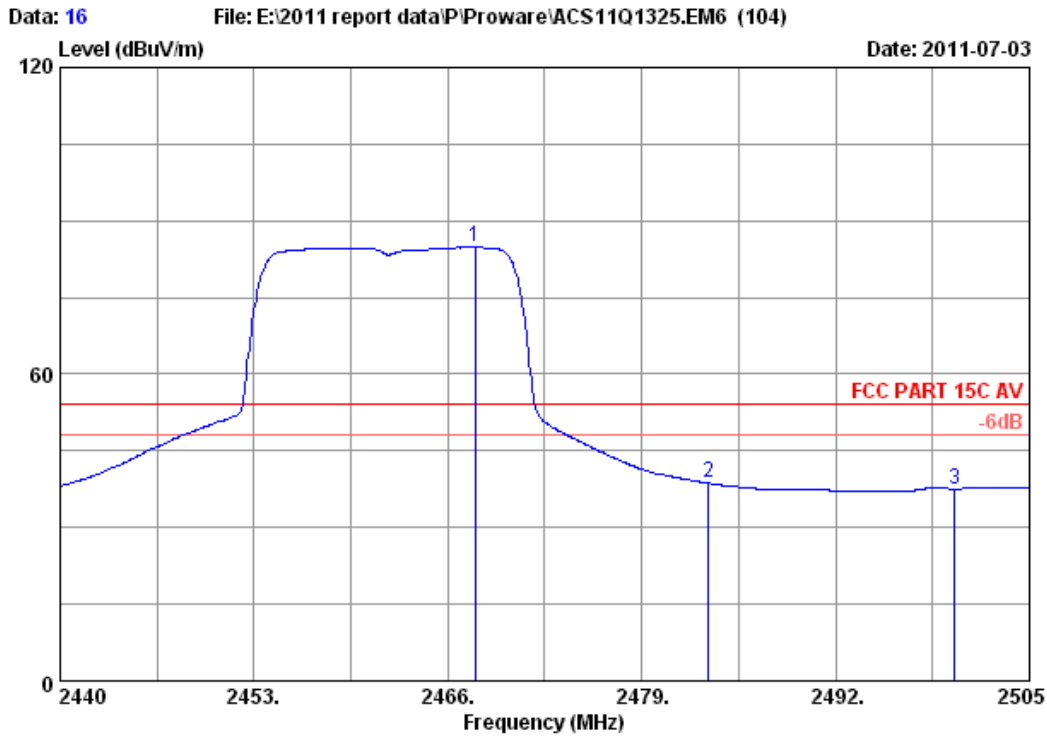
Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : PW-DN4210D

	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	2467.105	28.55	8.76	36.02	93.52	94.81	74.00	-20.81	Peak
2	2483.500	28.58	8.94	35.97	50.41	51.96	74.00	22.04	Peak
3	2499.280	28.60	8.89	36.00	50.20	51.69	74.00	22.31	Peak
4	2500.000	28.60	8.89	36.00	47.82	49.31	74.00	24.69	Peak

Remarks:

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

FCC ID: WWMDN4210DV1



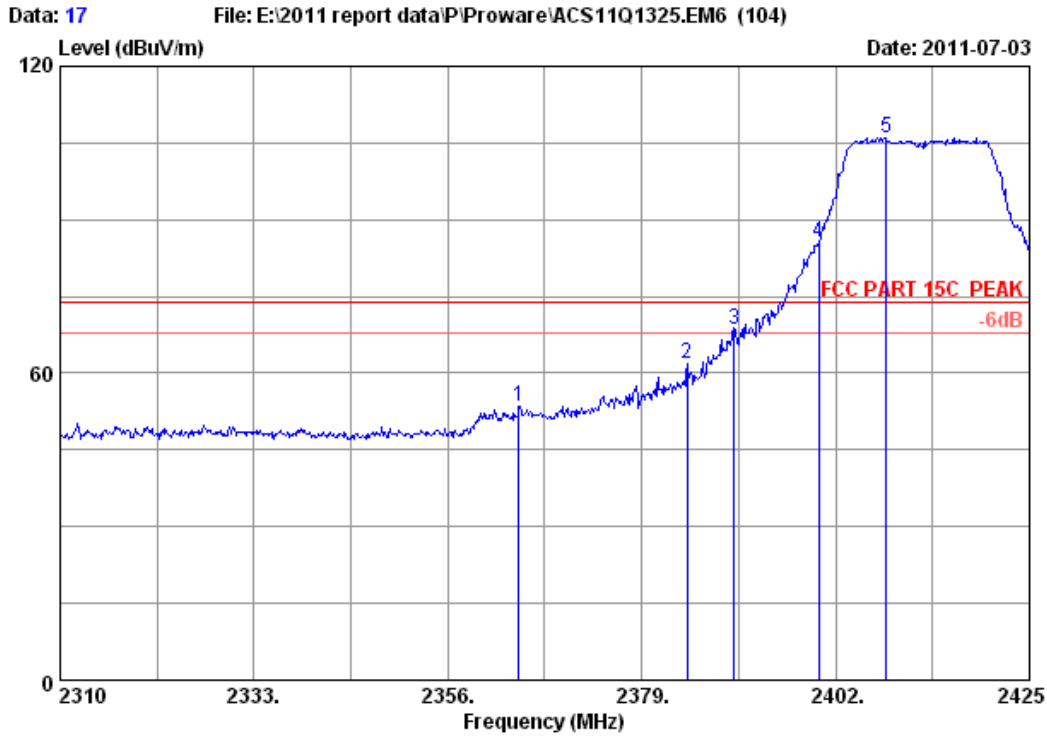
Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : PW-DN4210D

	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	2467.820	28.55	8.76	36.02	83.52	84.81	54.00	-30.81	Average
2	2483.500	28.58	8.94	35.97	37.14	38.69	54.00	15.31	Average
3	2500.000	28.60	8.89	36.00	36.09	37.58	54.00	16.42	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.

FCC ID: WWMDN4210DV1



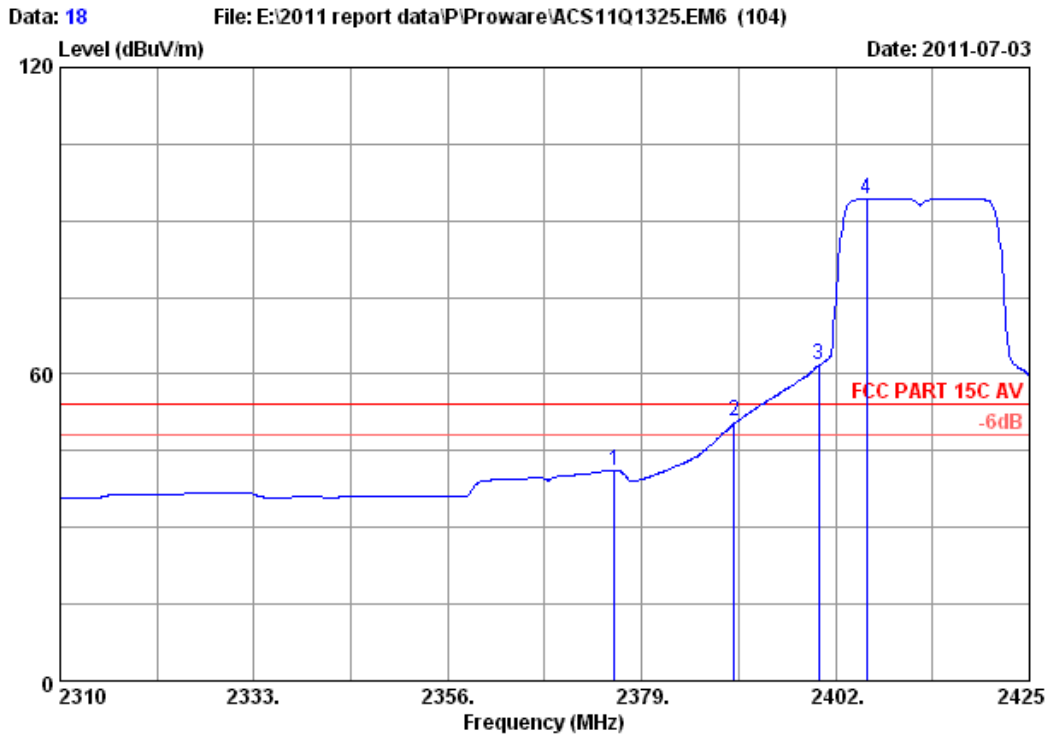
Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz
 M/N : PW-DN4210D

	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	2364.395	28.41	8.44	35.91	52.67	53.61	74.00	20.39	Peak
2	2384.405	28.43	8.41	36.00	60.94	61.78	74.00	12.22	Peak
3	2390.000	28.46	8.41	36.09	67.67	68.45	74.00	5.55	Peak
4	2400.000	28.46	8.60	36.09	84.69	85.66	74.00	-11.66	Peak
5	2407.980	28.48	8.60	35.95	104.79	105.92	74.00	-31.92	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.

FCC ID: WWMDN4210DV1



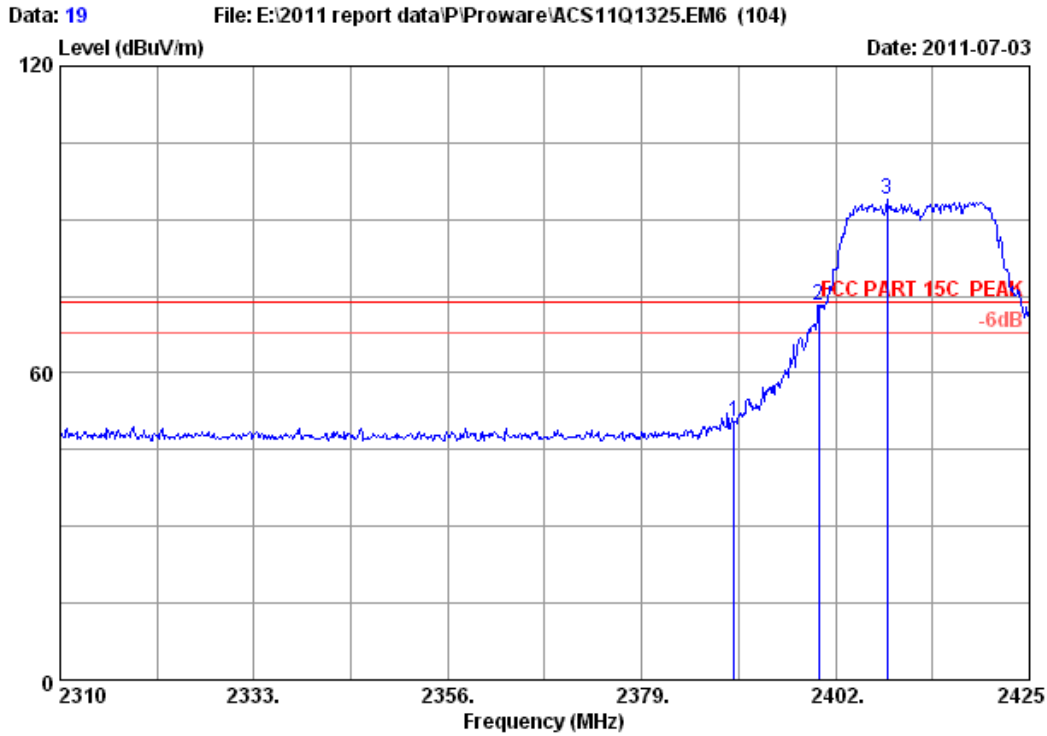
Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz
 M/N : PW-DN4210D

	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	2375.780	28.43	8.44	36.00	40.38	41.25	54.00	12.75	Average
2	2390.000	28.46	8.41	36.09	49.98	50.76	54.00	3.24	Average
3	2400.000	28.46	8.60	36.09	60.71	61.68	54.00	-7.68	Average
4	2405.680	28.48	8.60	35.95	93.25	94.38	54.00	-40.38	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.

FCC ID: WWMDN4210DV1



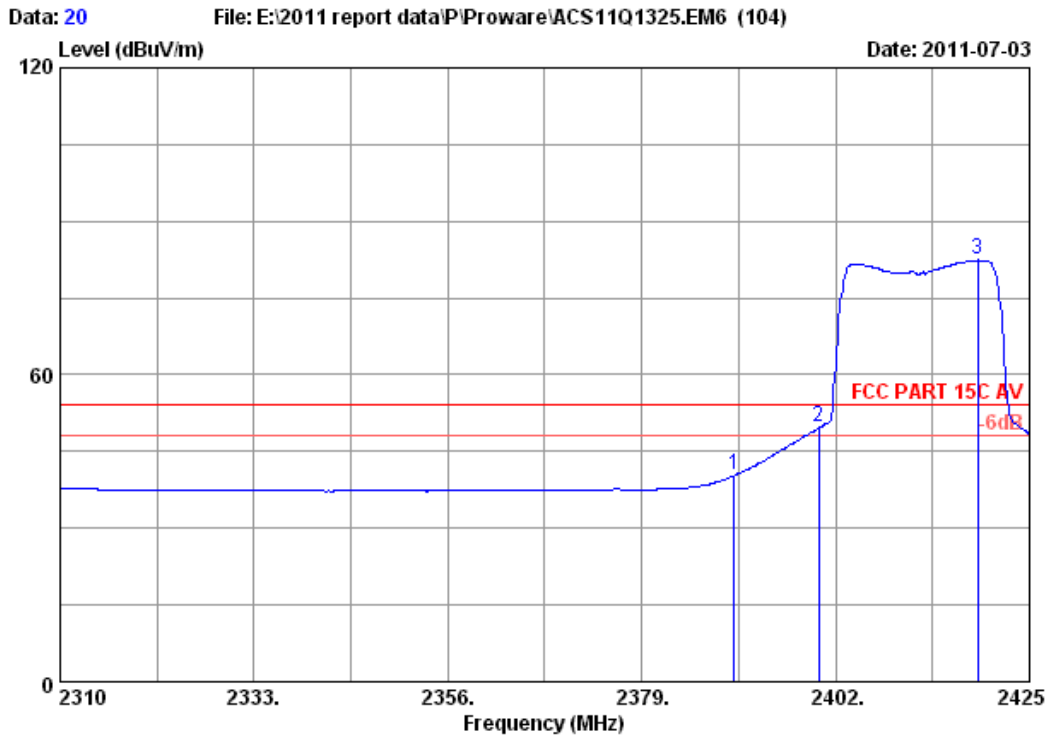
Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz
 M/N : PW-DN4210D

	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	49.80	50.58	74.00	23.42	Peak
2	2400.000	28.46	8.60	36.09	72.18	73.15	74.00	0.85	Peak
3	2408.095	28.48	8.60	35.95	92.76	93.89	74.00	-19.89	Peak

Remarks:

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

FCC ID: WWMDN4210DV1



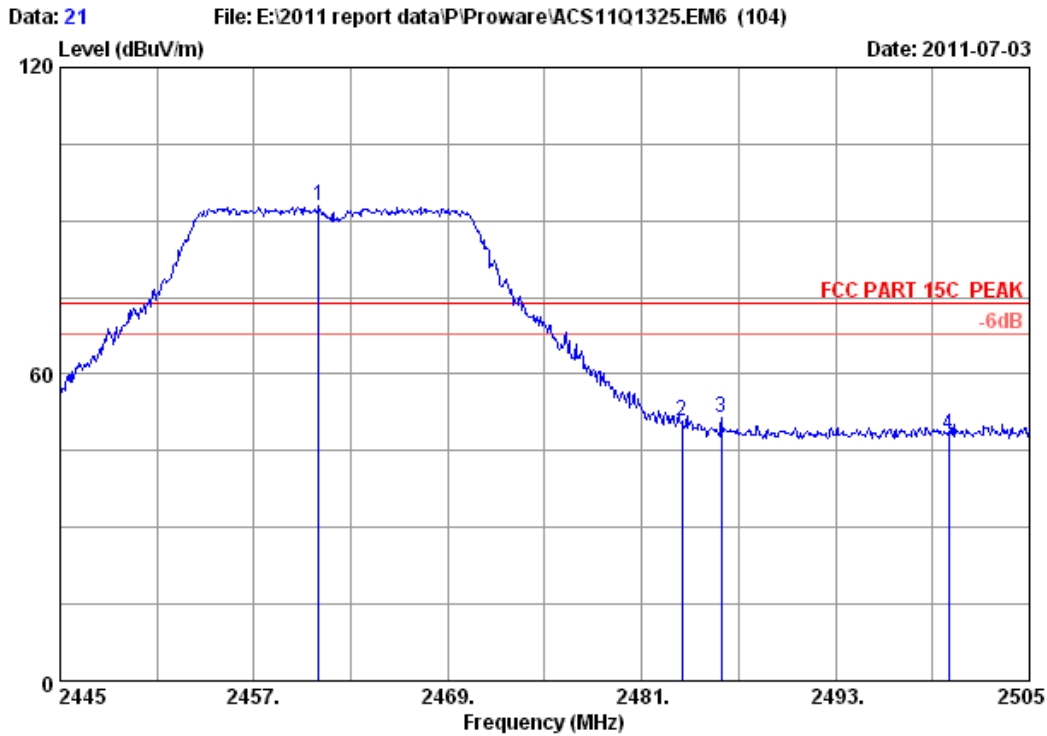
Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz
 M/N : PW-DN4210D

	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	39.58	40.36	54.00	13.64	Average
2	2400.000	28.46	8.60	36.09	48.69	49.66	54.00	4.34	Average
3	2418.905	28.48	8.60	35.95	81.27	82.40	54.00	-28.40	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.

FCC ID: WWMDN4210DV1



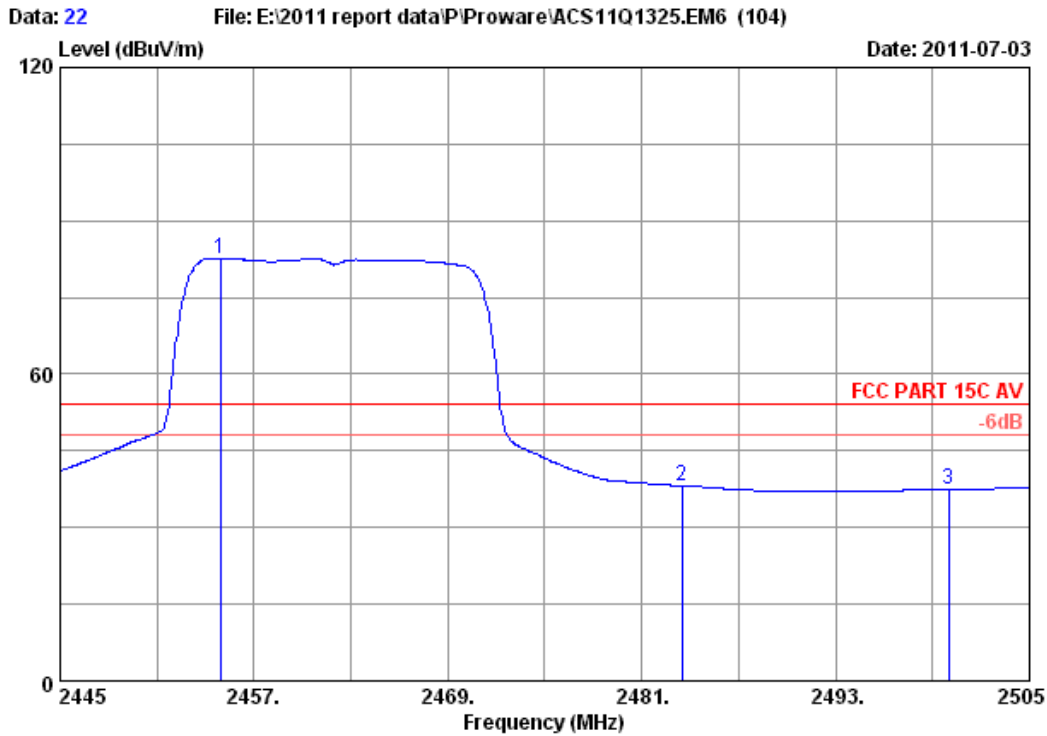
Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz
 M/N : PW-DN4210D

	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	2461.020	28.55	8.76	36.02	91.52	92.81	74.00	-18.81	Peak
2	2483.500	28.58	8.94	35.97	49.16	50.71	74.00	23.29	Peak
3	2485.920	28.58	8.94	35.97	50.07	51.62	74.00	22.38	Peak
4	2500.000	28.60	8.89	36.00	46.63	48.12	74.00	25.88	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.

FCC ID: WWMDN4210DV1



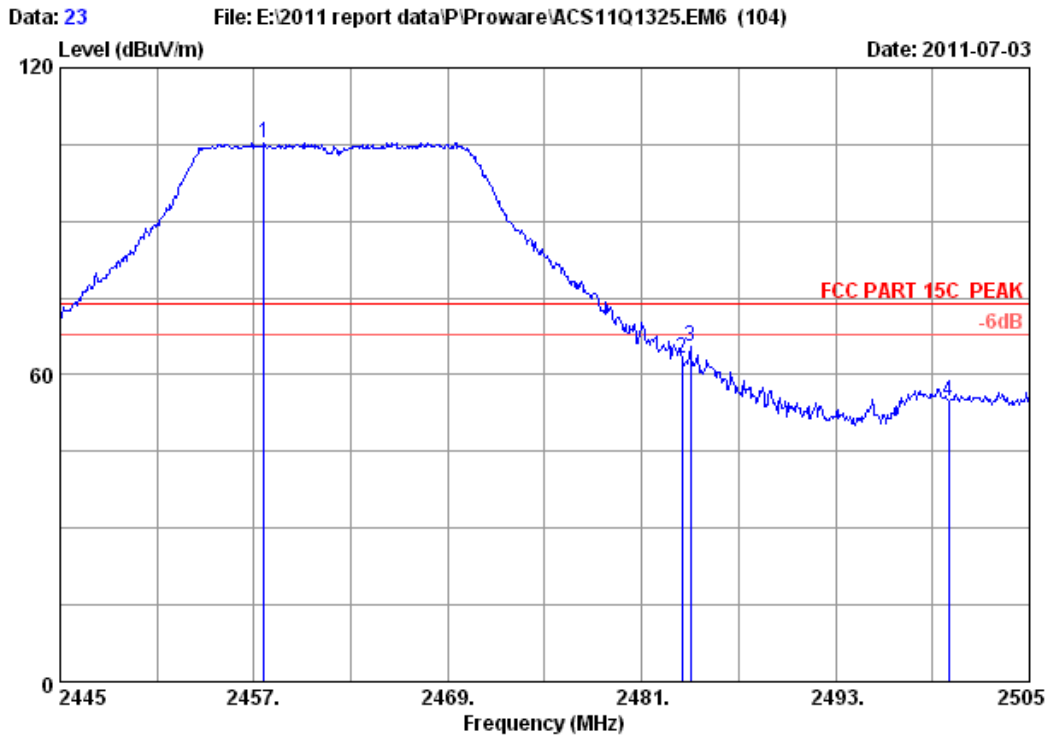
Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz
 M/N : PW-DN4210D

	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	2454.900	28.55	8.48	36.02	81.62	82.63	54.00	-28.63	Average
2	2483.500	28.58	8.94	35.97	36.58	38.13	54.00	15.87	Average
3	2500.000	28.60	8.89	36.00	35.99	37.48	54.00	16.52	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.

FCC ID: WWMDN4210DV1



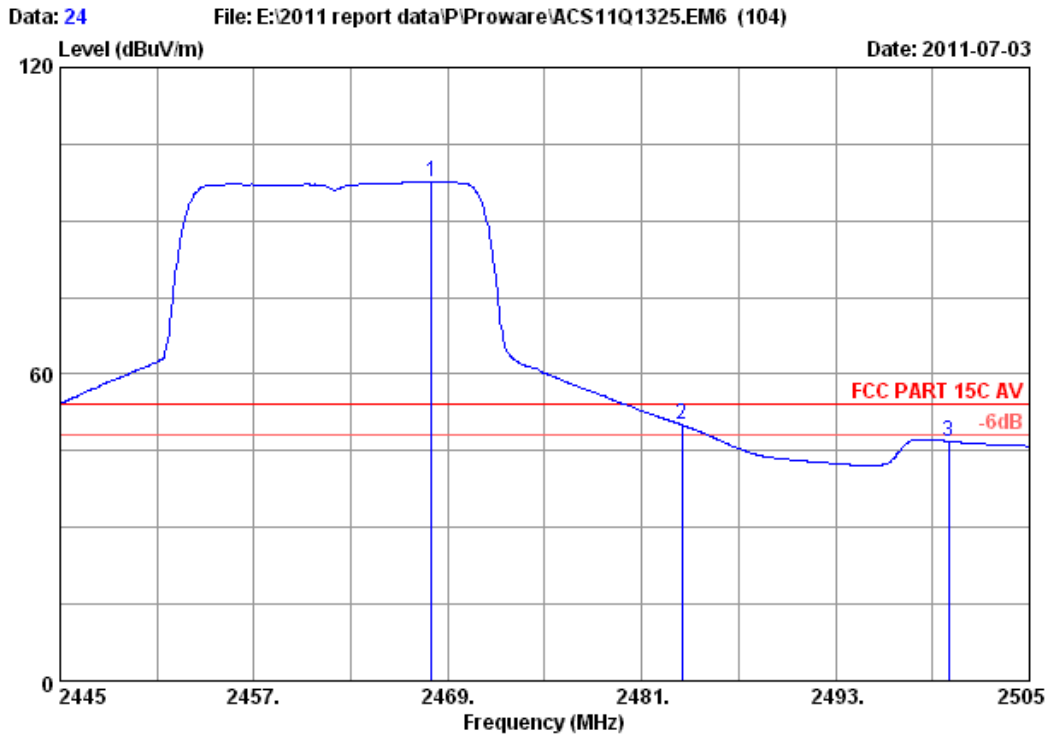
Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz
 M/N : PW-DN4210D

	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	2457.600	28.55	8.48	36.02	104.38	105.39	74.00	-31.39	Peak
2	2483.500	28.58	8.94	35.97	61.75	63.30	74.00	10.70	Peak
3	2484.000	28.58	8.94	35.97	64.11	65.66	74.00	8.34	Peak
4	2500.000	28.60	8.89	36.00	53.40	54.89	74.00	19.11	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.

FCC ID: WWMDN4210DV1



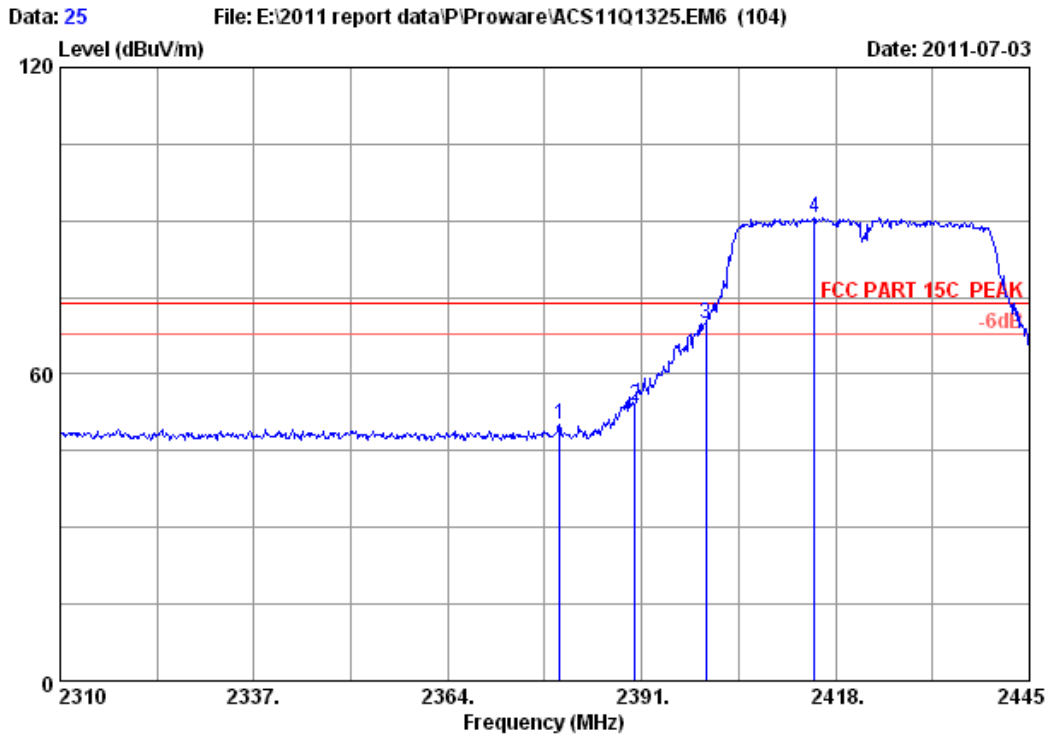
Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz
 M/N : PW-DN4210D

	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	2467.980	28.55	8.76	36.02	96.28	97.57	54.00	-43.57	Average
2	2483.500	28.58	8.94	35.97	48.53	50.08	54.00	3.92	Average
3	2500.000	28.60	8.89	36.00	45.34	46.83	54.00	7.17	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.

FCC ID: WWMDN4210DV1



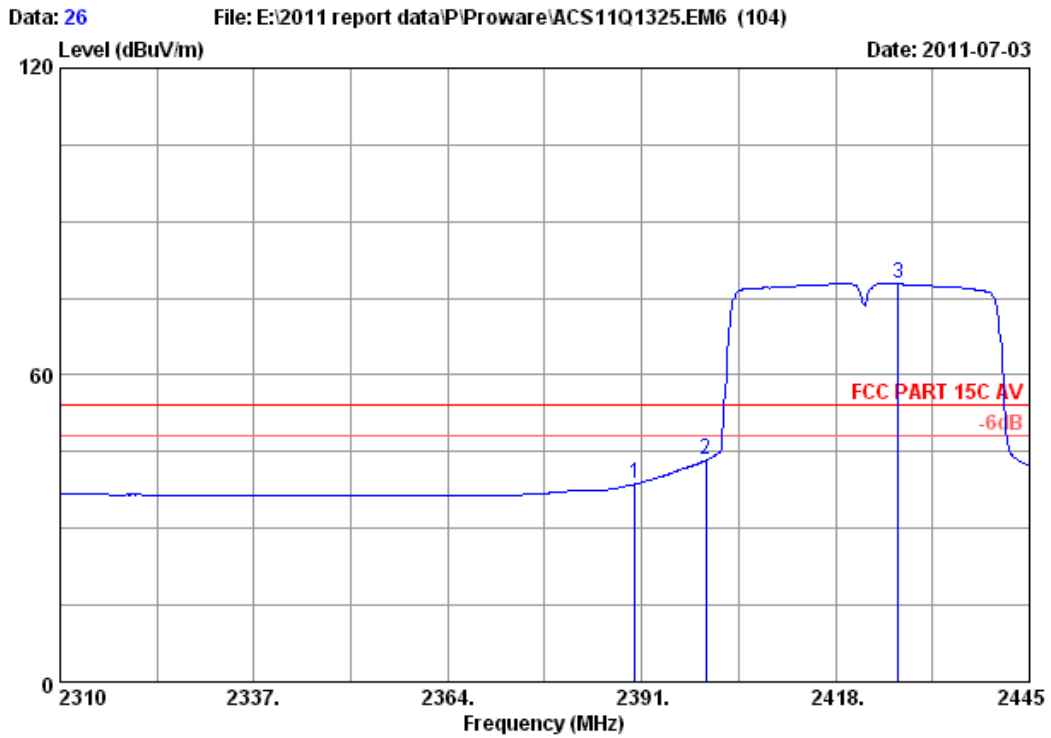
Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz
 M/N : PW-DN4210D

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2379.525	28.43	8.41	36.00	49.45	50.29	74.00	23.71	Peak
2	2390.000	28.46	8.41	36.09	53.07	53.85	74.00	20.15	Peak
3	2400.000	28.46	8.60	36.09	68.99	69.96	74.00	4.04	Peak
4	2415.030	28.48	8.60	35.95	89.59	90.72	74.00	-16.72	Peak

Remarks:

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

FCC ID: WWMDN4210DV1



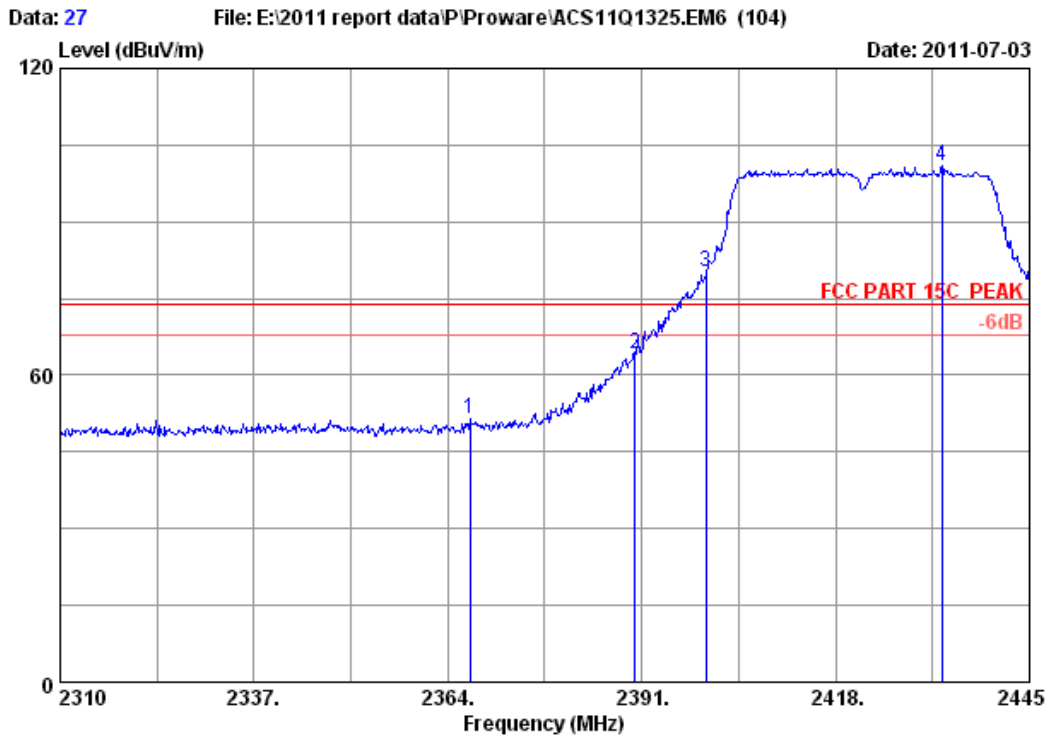
Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz
 M/N : PW-DN4210D

	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	37.89	38.67	54.00	15.33	Average
2	2400.000	28.46	8.60	36.09	42.45	43.42	54.00	10.58	Average
3	2426.775	28.50	8.60	36.01	76.85	77.94	54.00	-23.94	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.

FCC ID: WWMDN4210DV1



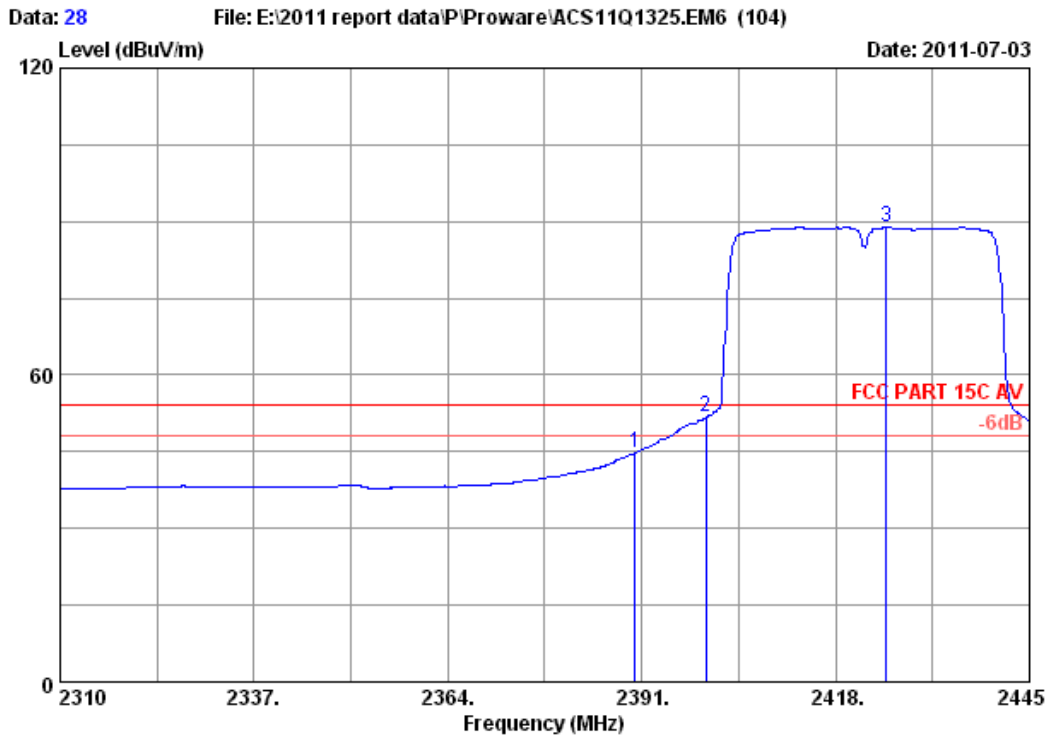
Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz
 M/N : PW-DN4210D

	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	2367.105	28.41	8.44	35.91	50.69	51.63	74.00	22.37	Peak
2	2390.000	28.46	8.41	36.09	63.26	64.04	74.00	9.96	Peak
3	2400.000	28.46	8.60	36.09	79.18	80.15	74.00	-6.15	Peak
4	2432.850	28.50	8.60	36.01	99.75	100.84	74.00	-26.84	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.

FCC ID: WWMDN4210DV1



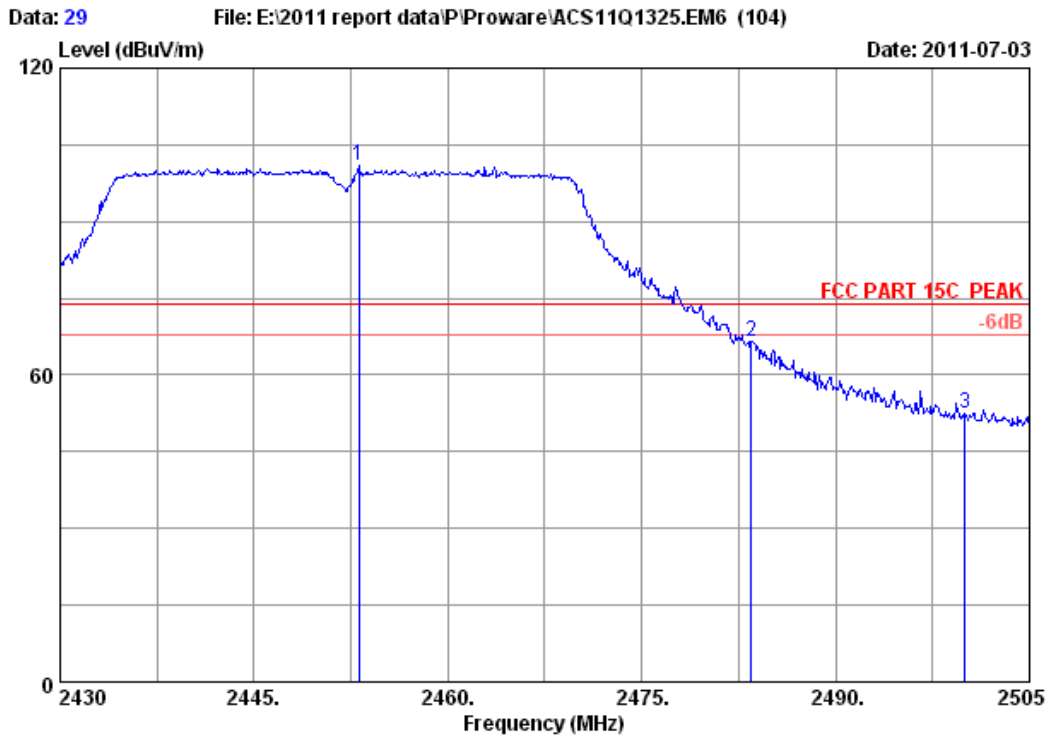
Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz
 M/N : PW-DN4210D

	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	44.03	44.81	54.00	9.19	Average
2	2400.000	28.46	8.60	36.09	50.70	51.67	54.00	2.33	Average
3	2425.020	28.50	8.60	36.01	87.99	89.08	54.00	-35.08	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.

FCC ID: WWMDN4210DV1



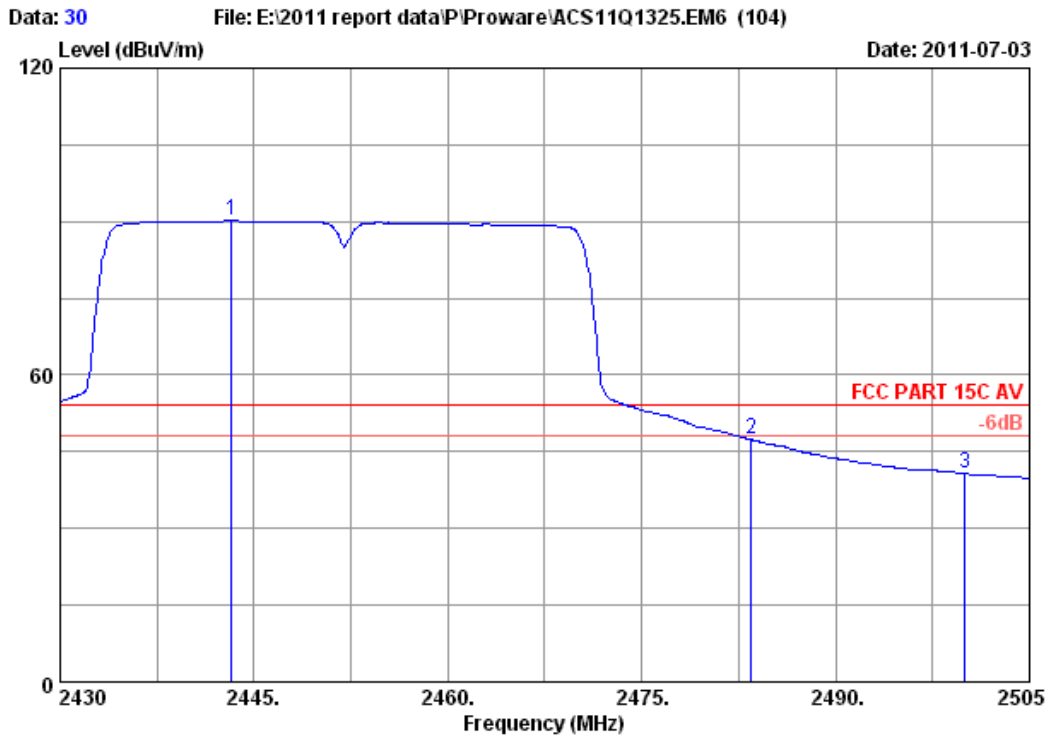
Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz
 M/N : PW-DN4210D

	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	2453.100	28.53	8.48	36.06	99.88	100.83	74.00	-26.83	Peak
2	2483.500	28.58	8.94	35.97	65.03	66.58	74.00	7.42	Peak
3	2500.000	28.60	8.89	36.00	50.98	52.47	74.00	21.53	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.

FCC ID: WWMDN4210DV1



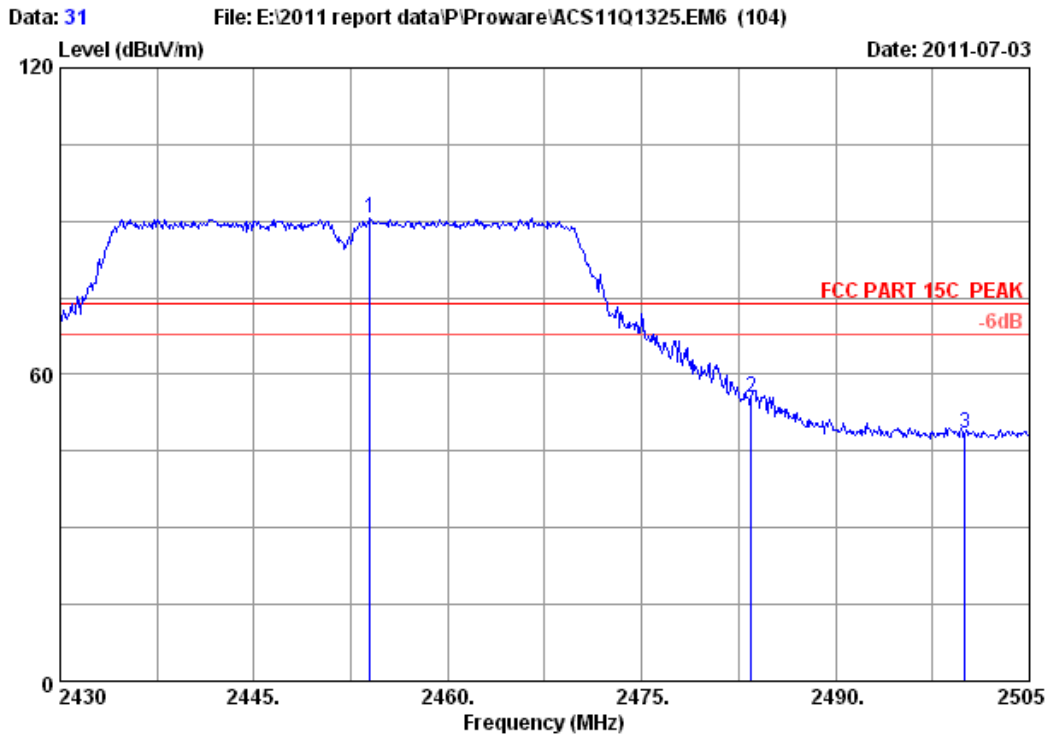
Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz
 M/N : PW-DN4210D

	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	2443.275	28.53	8.48	36.06	89.22	90.17	54.00	-36.17	Average
2	2483.500	28.58	8.94	35.97	45.79	47.34	54.00	6.66	Average
3	2500.000	28.60	8.89	36.00	39.23	40.72	54.00	13.28	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.

FCC ID: WWMDN4210DV1



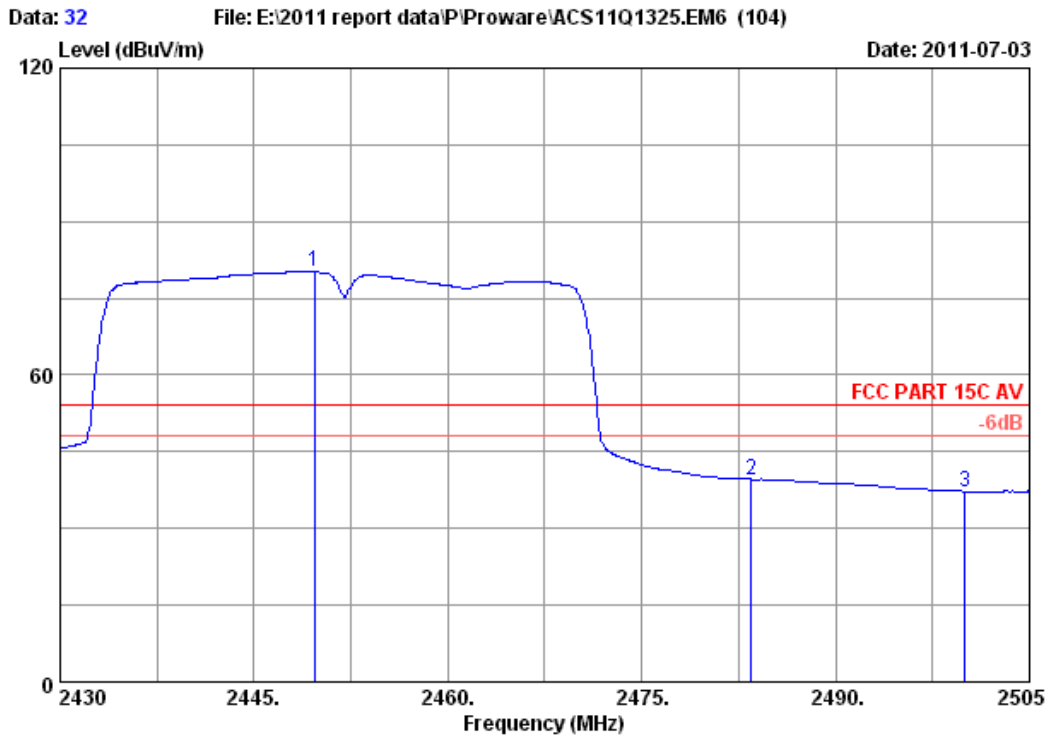
Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz
 M/N : PW-DN4210D

	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	2454.000	28.55	8.48	36.02	89.47	90.48	74.00	-16.48	Peak
2	2483.500	28.58	8.94	35.97	53.99	55.54	74.00	18.46	Peak
3	2500.000	28.60	8.89	36.00	46.88	48.37	74.00	25.63	Peak

Remarks:

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

FCC ID: WWMDN4210DV1



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless High Gain USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz
 M/N : PW-DN4210D

	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	2449.650	28.53	8.48	36.06	79.23	80.18	54.00	-26.18	Average
2	2483.500	28.58	8.94	35.97	38.05	39.60	54.00	14.40	Average
3	2500.000	28.60	8.89	36.00	35.77	37.26	54.00	16.74	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.

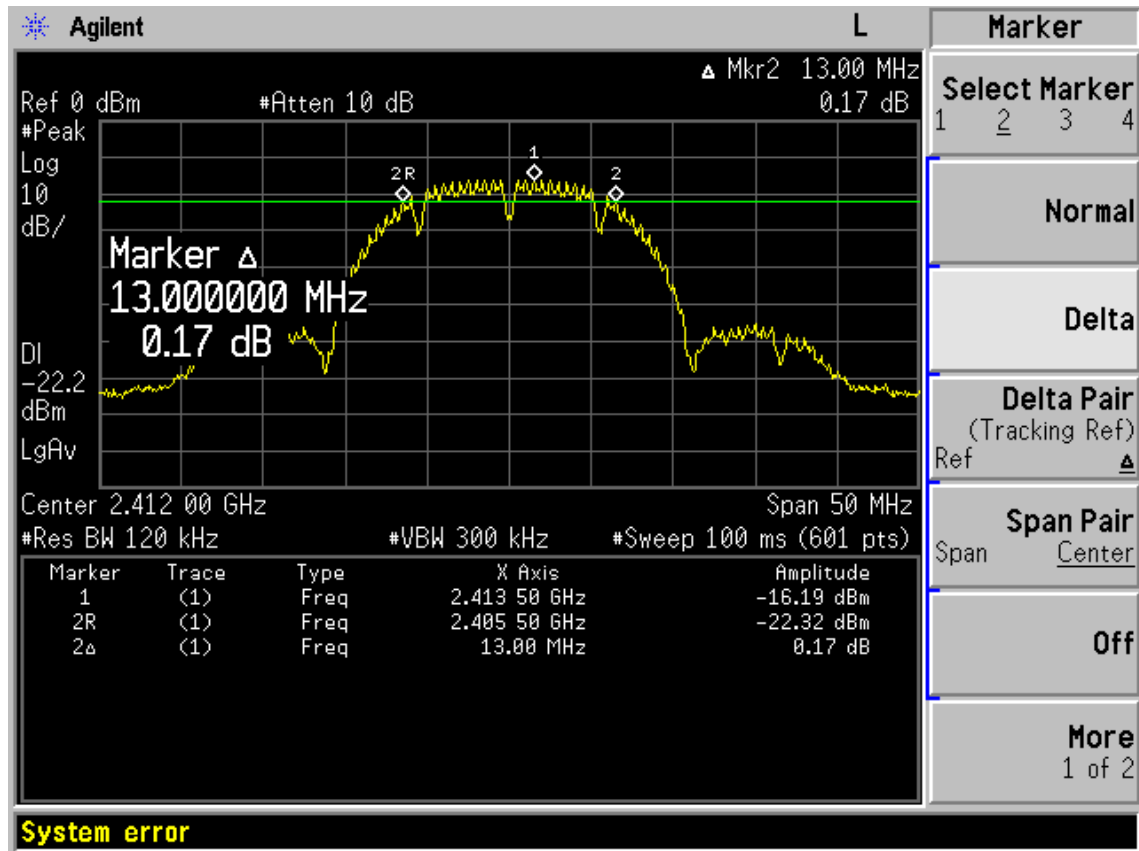
7.4. Test Results

EUT: Wireless High Gain USB Adapter		
M/N: PW-DN4210D		
Test date: 2011-07-03	Pressure: 101.5kpa	Humidity: 55%
Tested by: Leo-Li	Test site: RF Site	Temperature : 25 °C

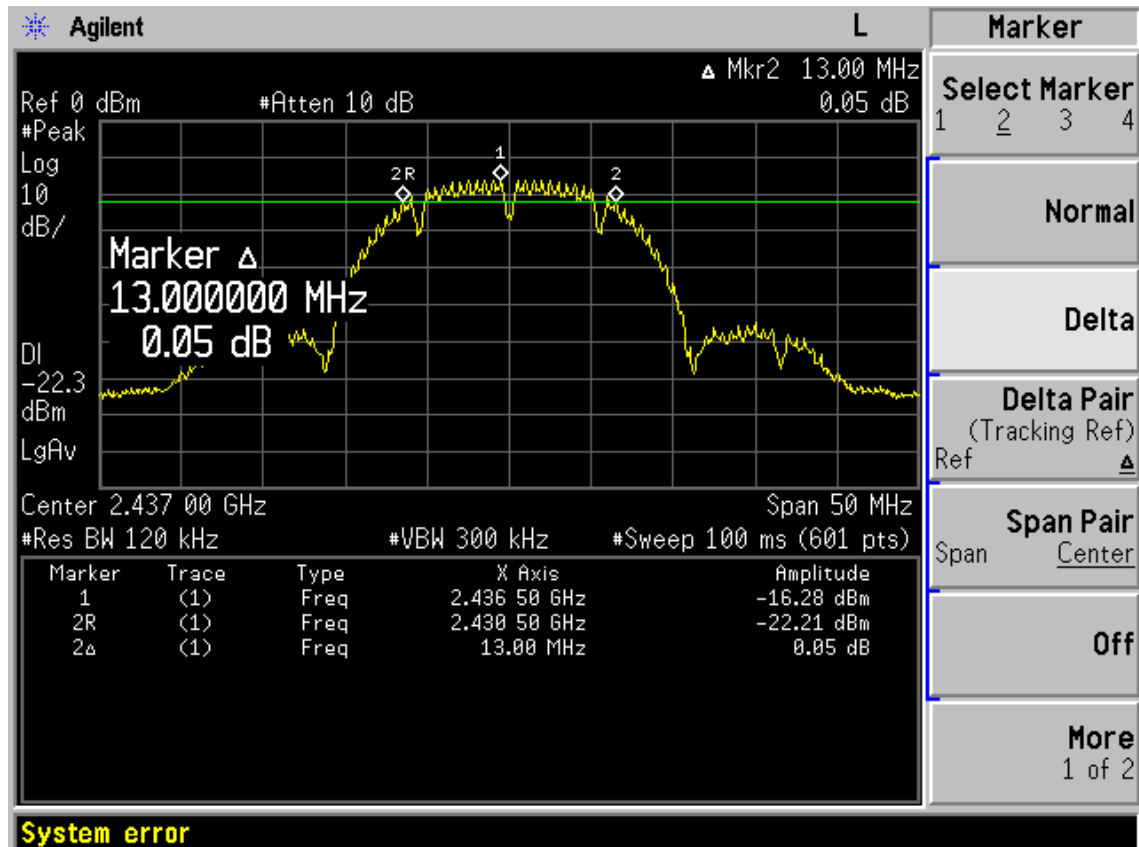
Cable loss: 1 dB		Attenuator loss: 20 dB	Antenna Gain: 2 dBi
Test Mode	CH	6dB bandwidth (MHz)	Limit (KHz)
11b	CH1	13.00	>500
	CH6	13.00	>500
	CH11	13.00	>500
11g	CH1	16.50	>500
	CH6	16.50	>500
	CH11	16.50	>500
11n HT20	CH1	17.67	>500
	CH6	17.67	>500
	CH11	17.67	>500
11n HT40	CH1	36.12	>500
	CH4	36.48	>500
	CH7	36.30	>500
Conclusion : PASS			

FCC ID: WWMDN4210DV1

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

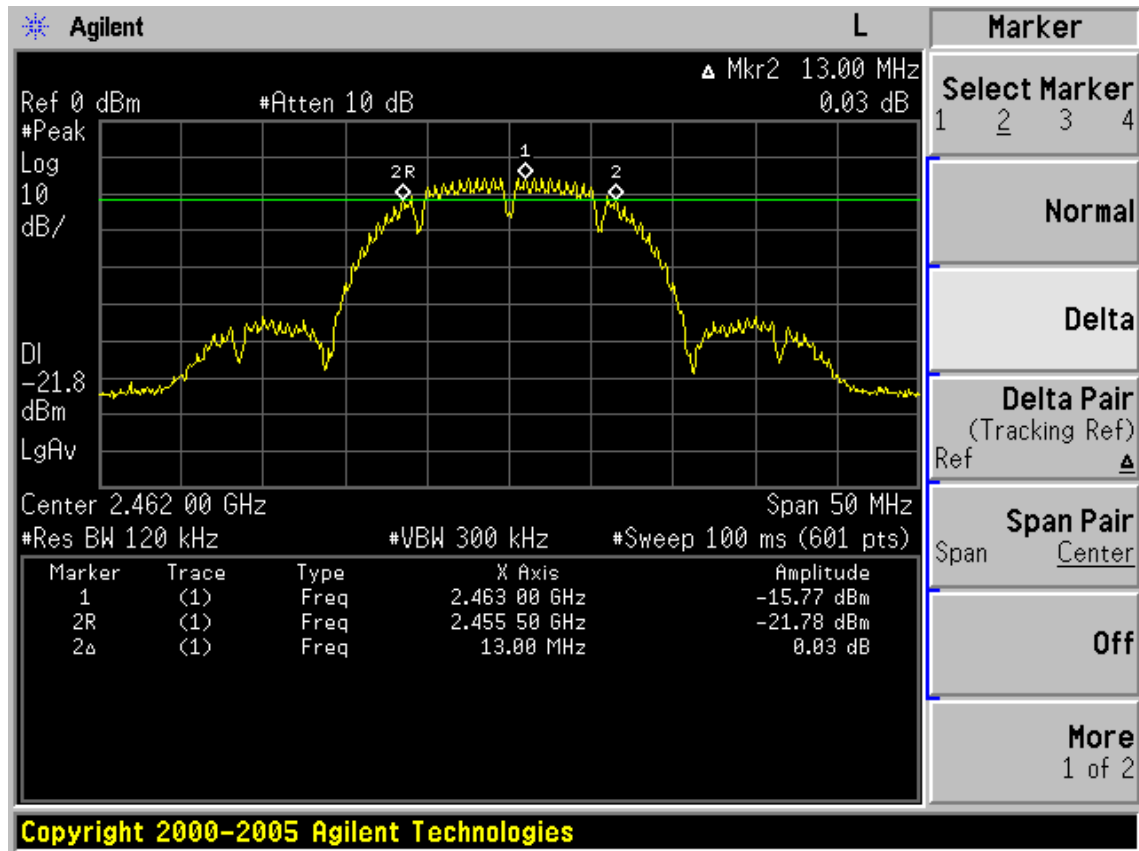


Test CH6: 2437MHz



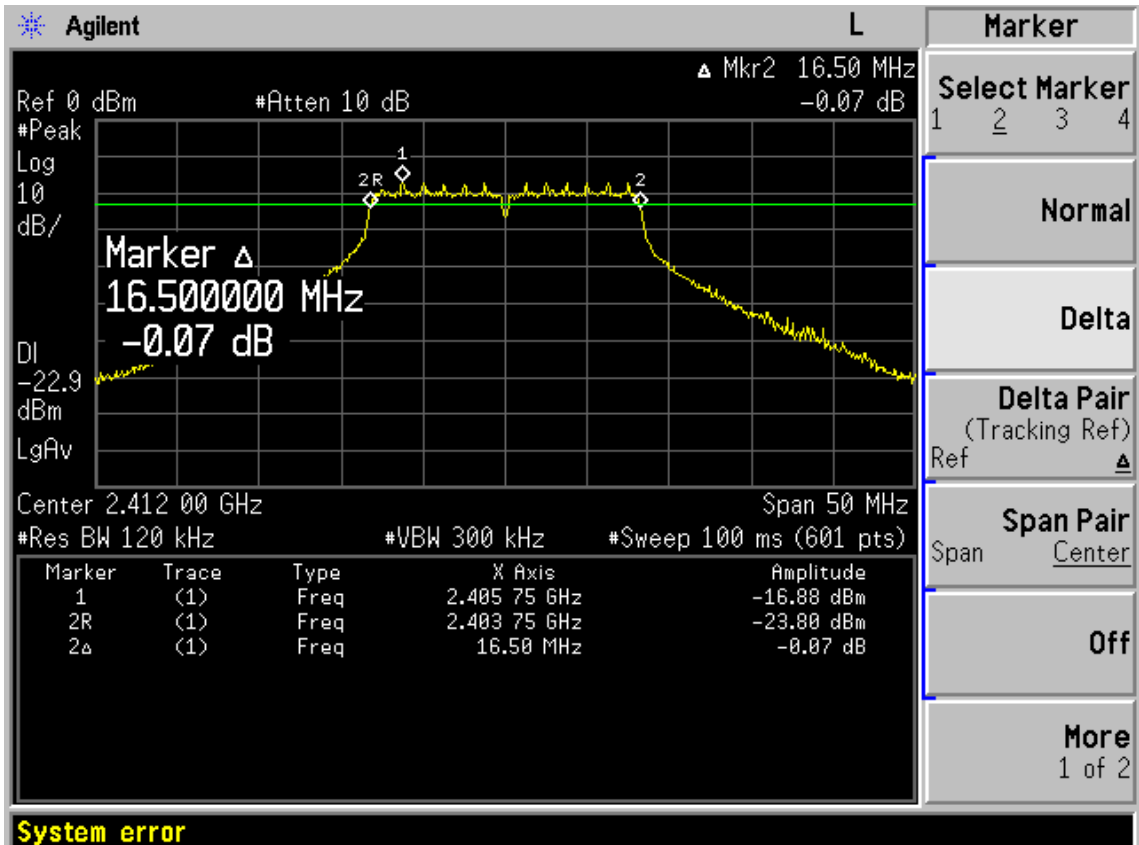
FCC ID: WWMDN4210DV1

Test CH11: 2462MHz



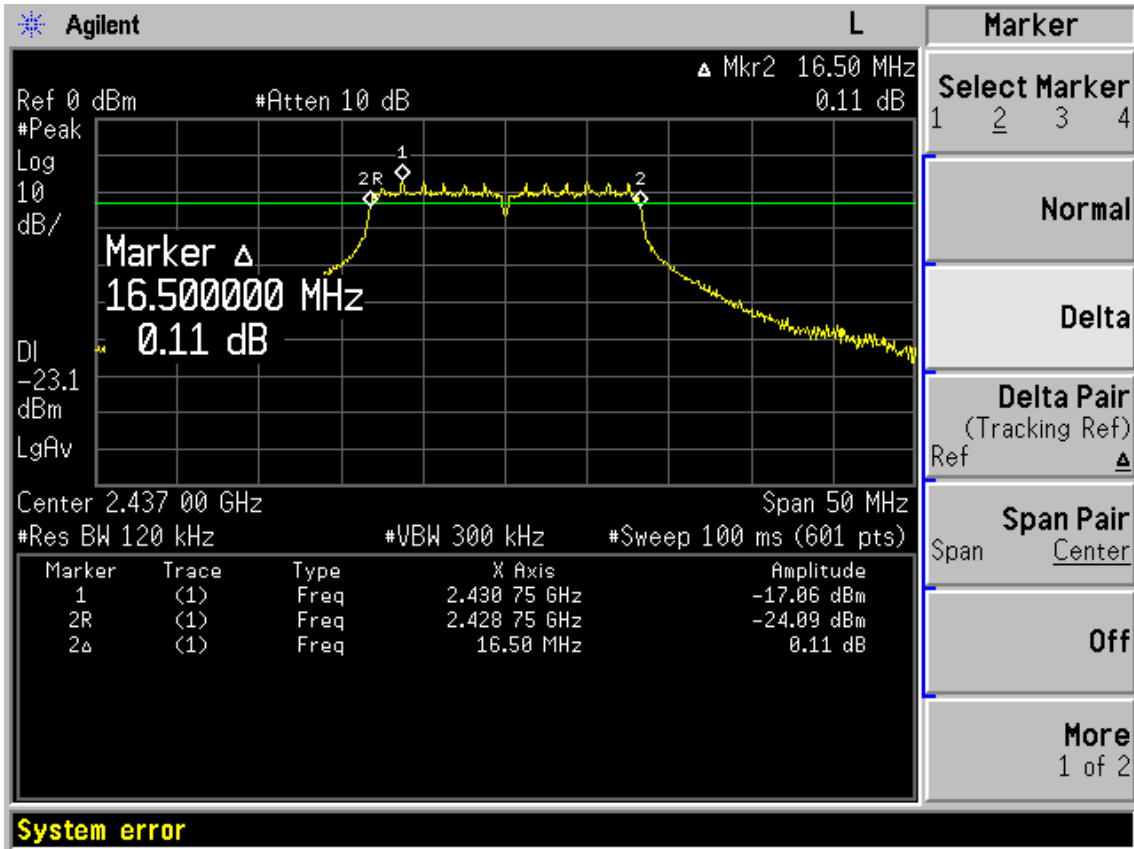
Test Mode: IEEE 802.11g TX

Test CH1: 2412MHz

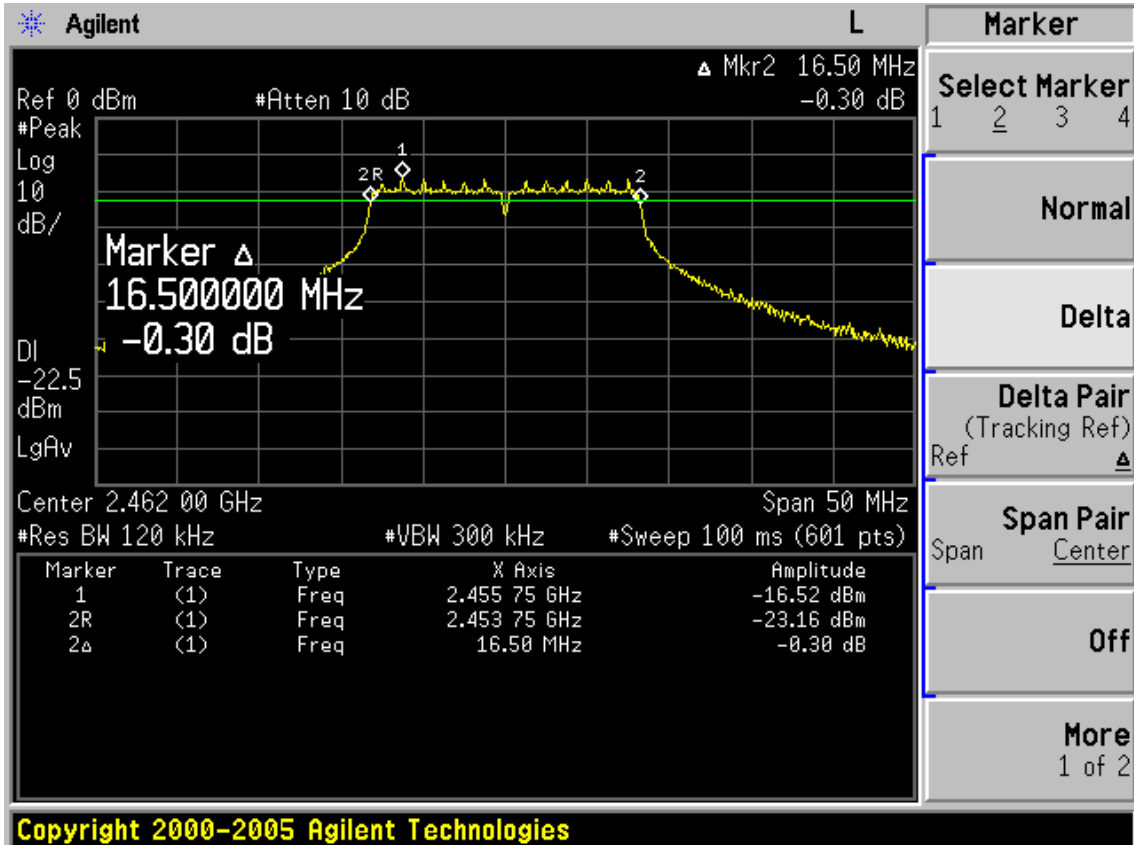


FCC ID: WWMDN4210DV1

Test CH6: 2437MHz



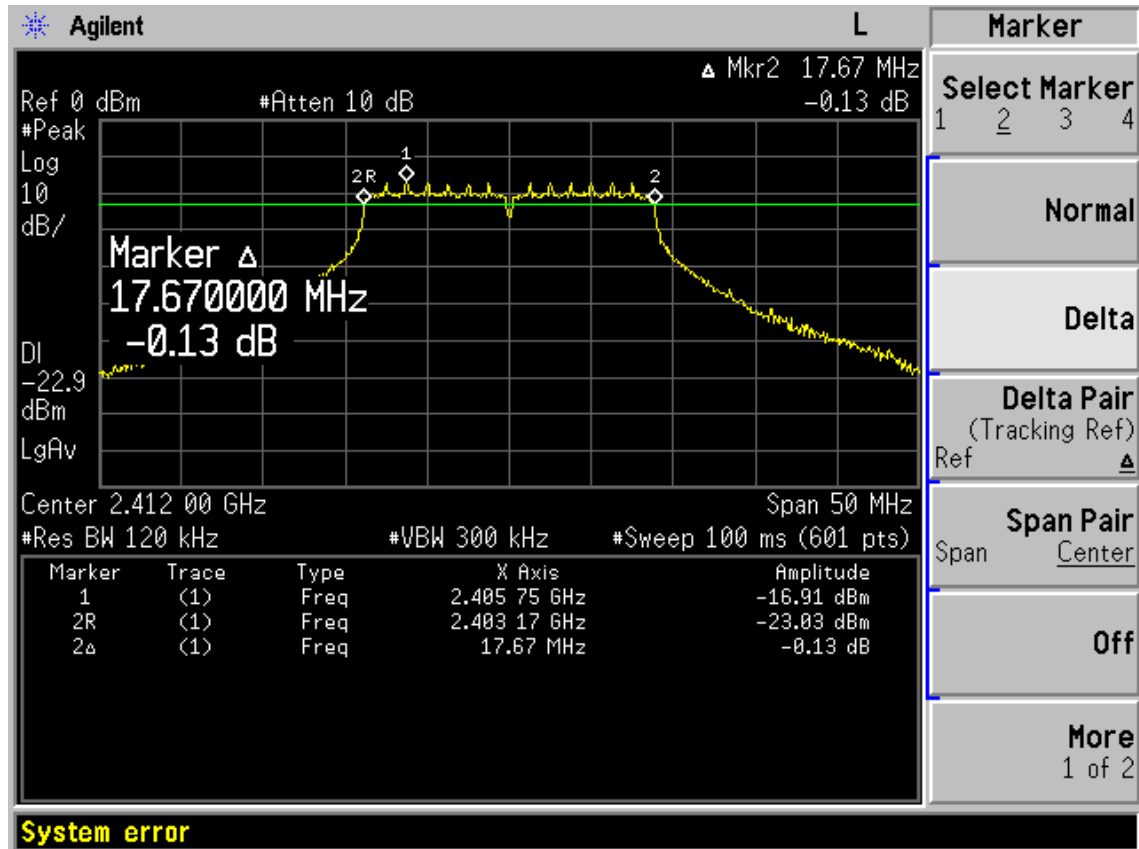
Test CH11: 2462MHz



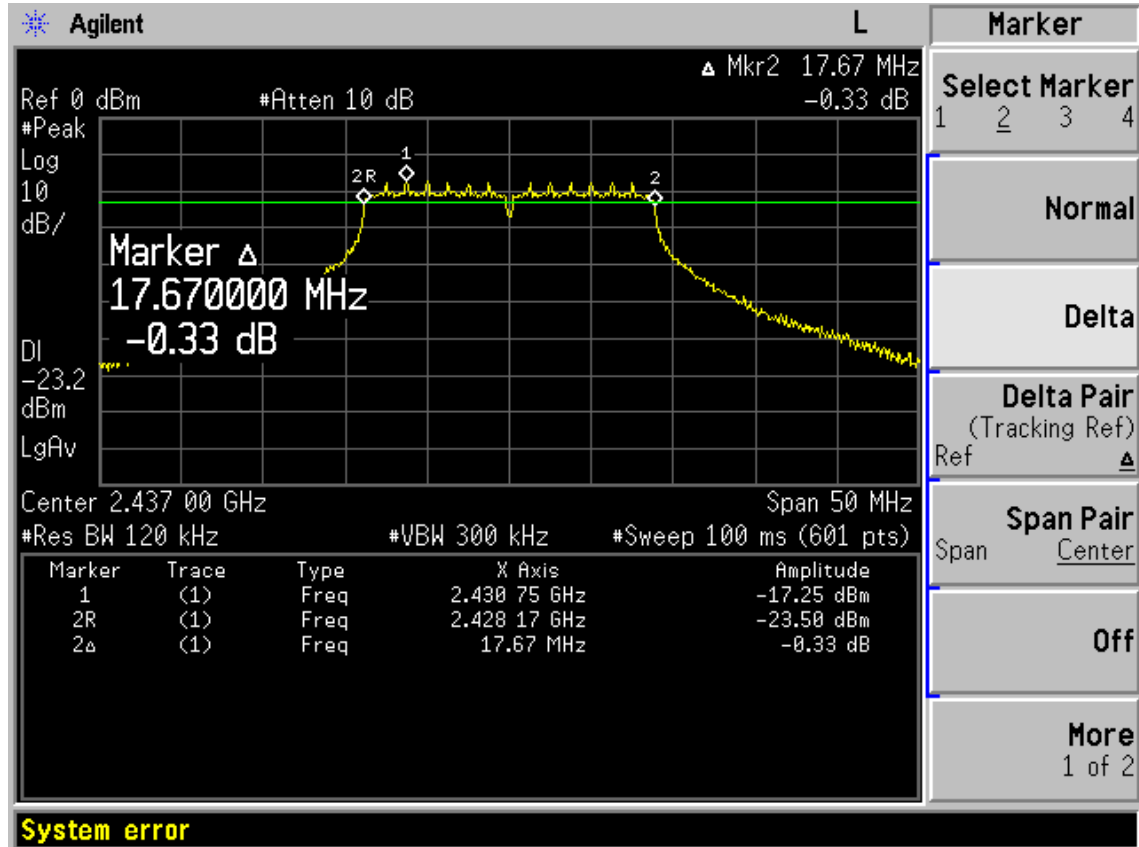
FCC ID: WWMDN4210DV1

Test Mode: IEEE 802.11n HT20 TX

Test CH1: 2412MHz

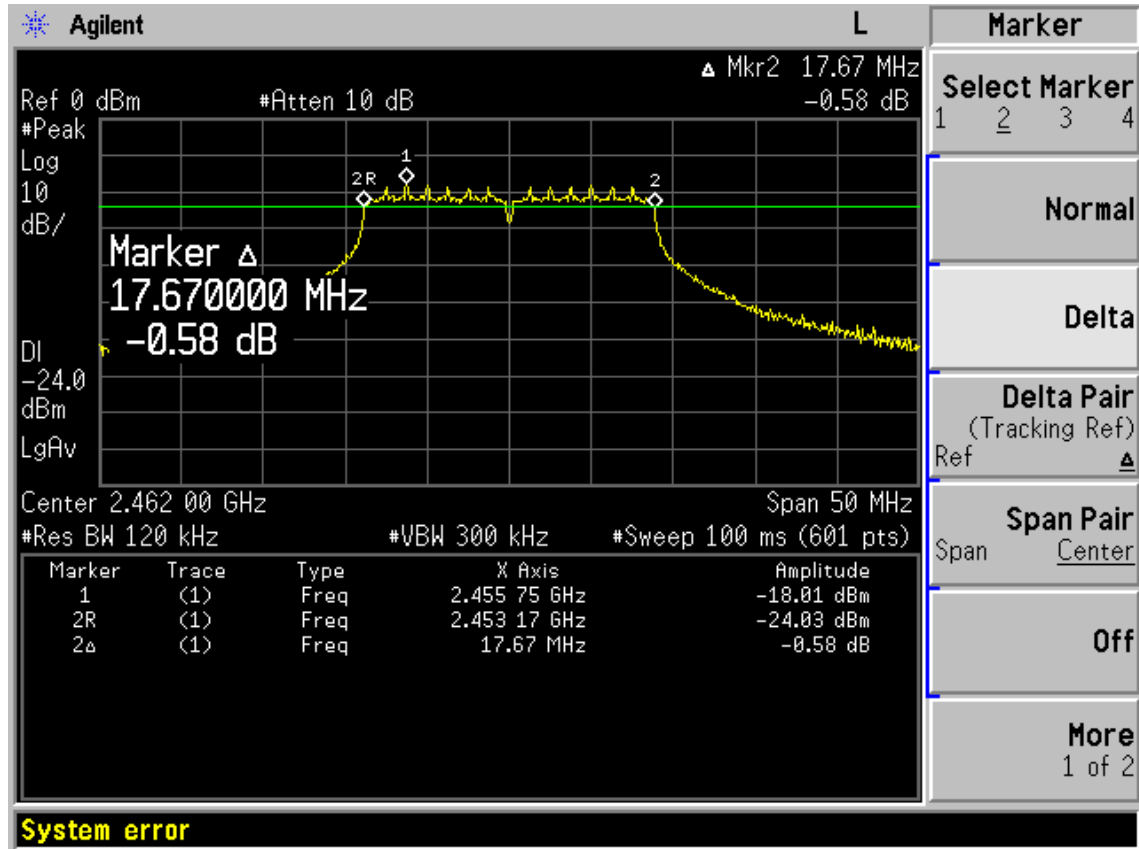


Test CH6: 2437MHz



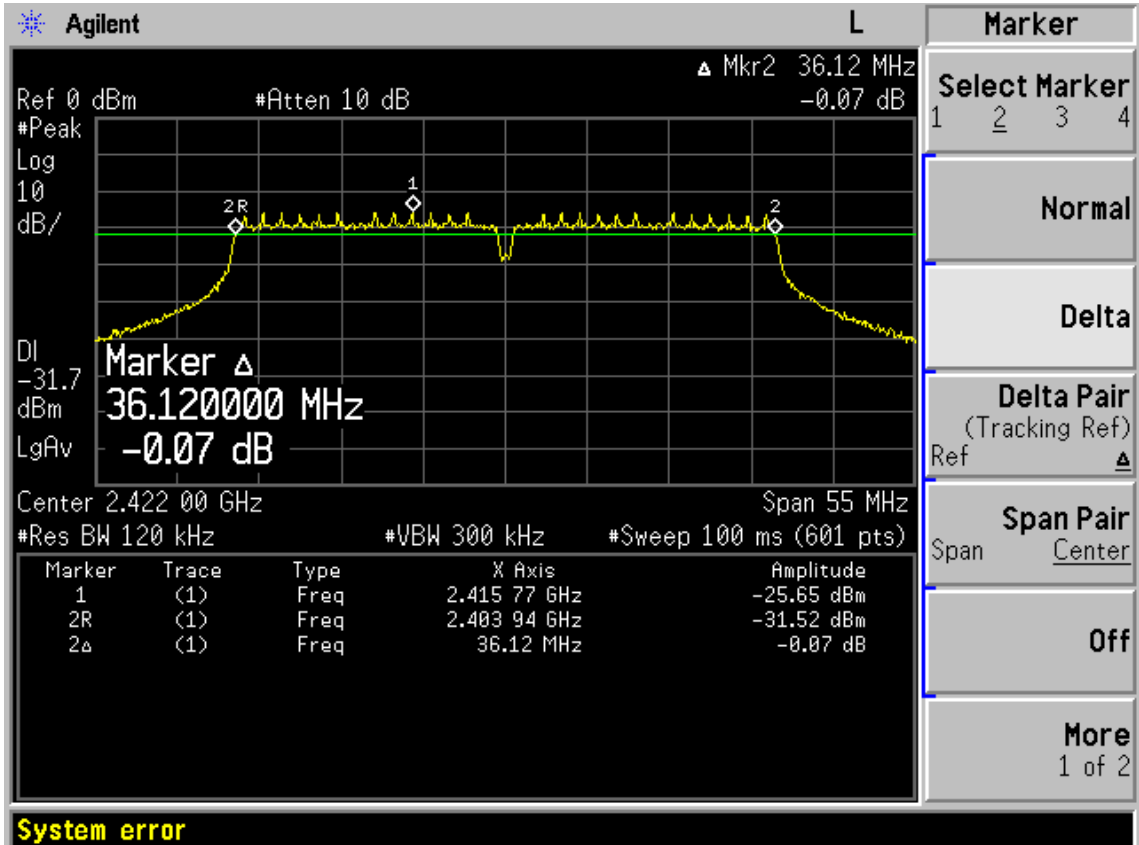
FCC ID: WWMDN4210DV1

Test CH11: 2462MHz



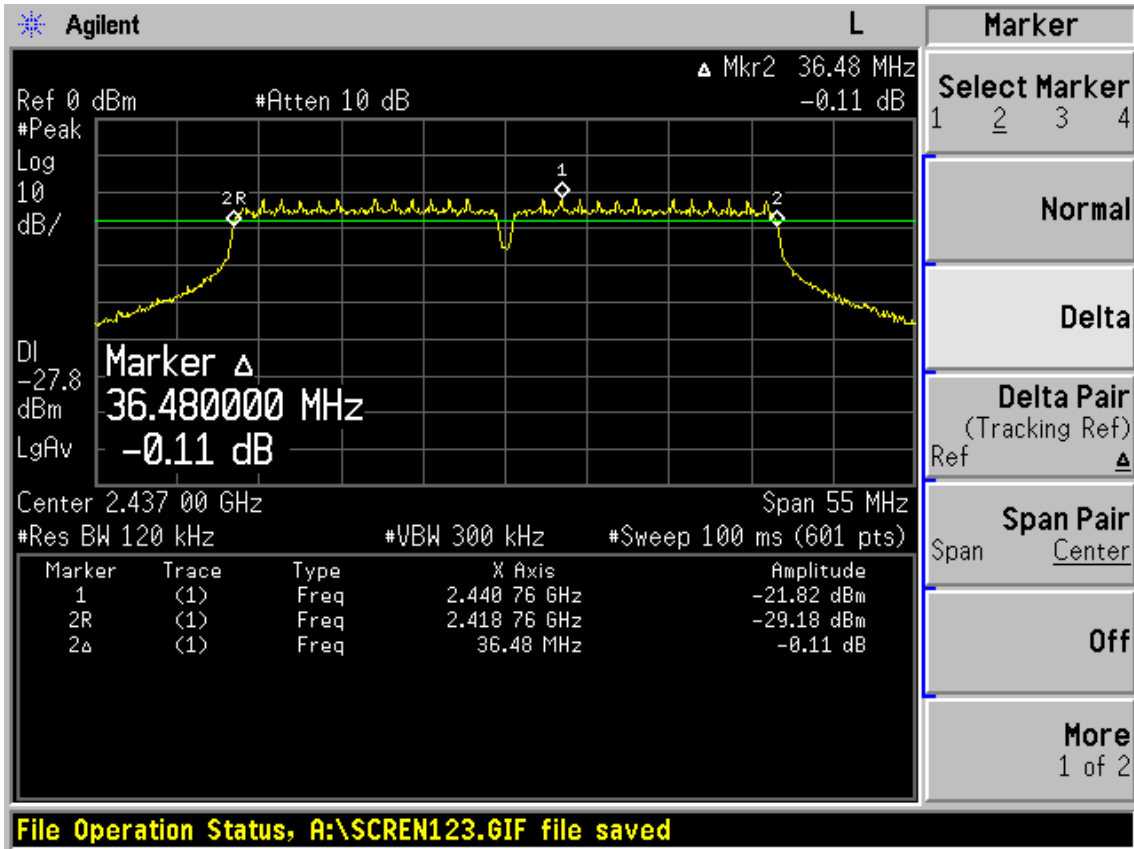
Test Mode: IEEE 802.11n HT40 TX

Test CH1: 2422MHz

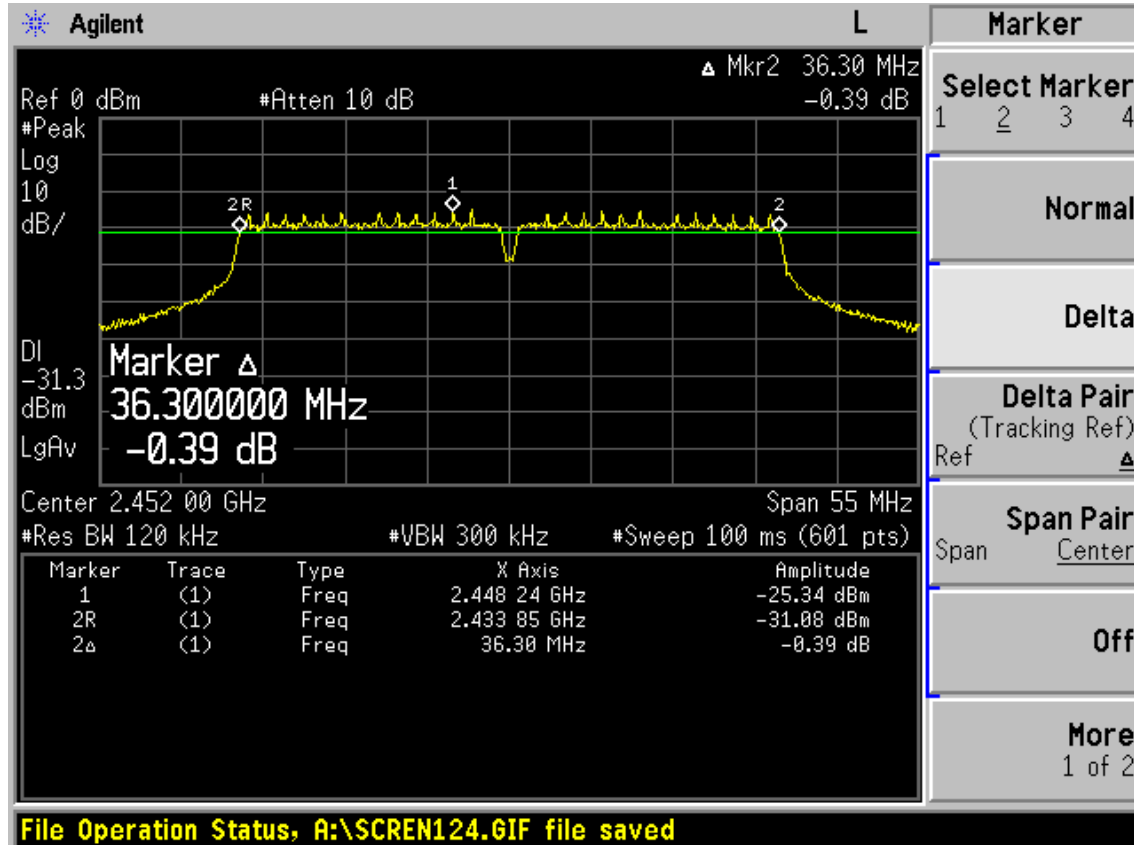


FCC ID: WWMDN4210DV1

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)]

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

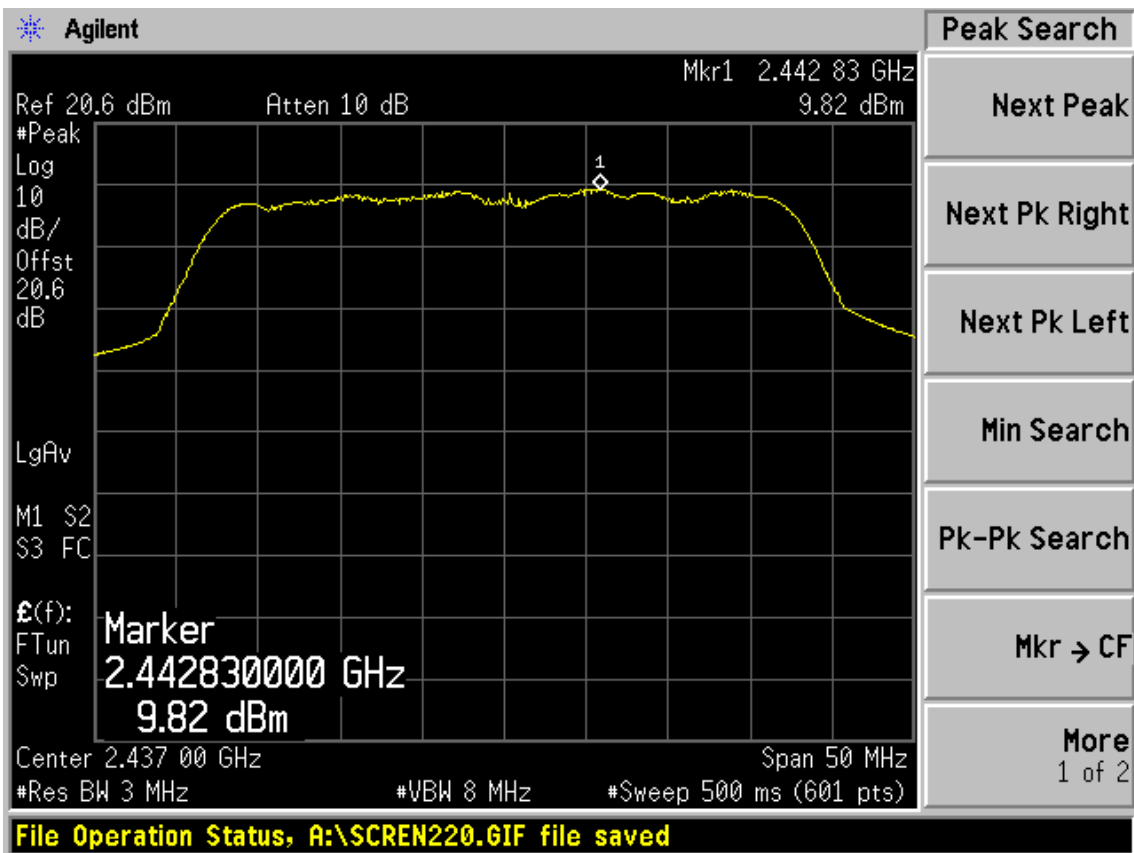
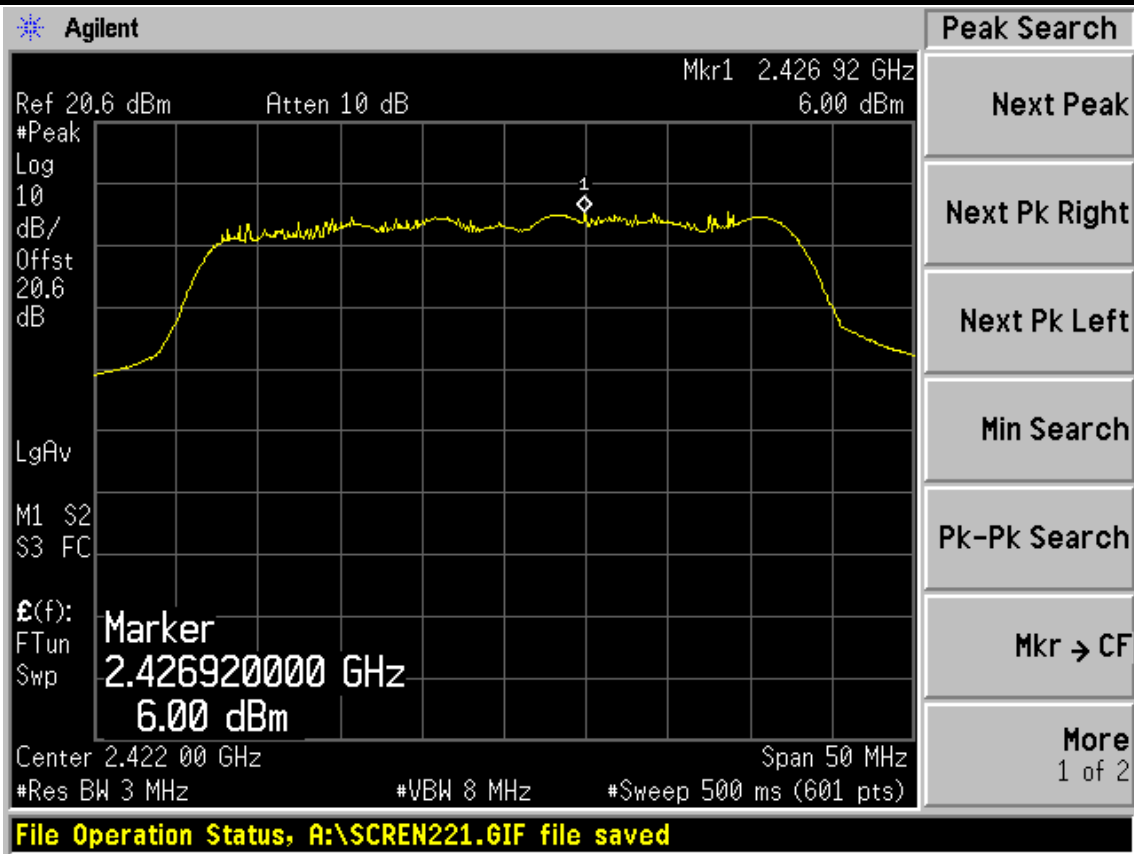
FCC ID: WWMDN4210DV1

8.4. Test Results

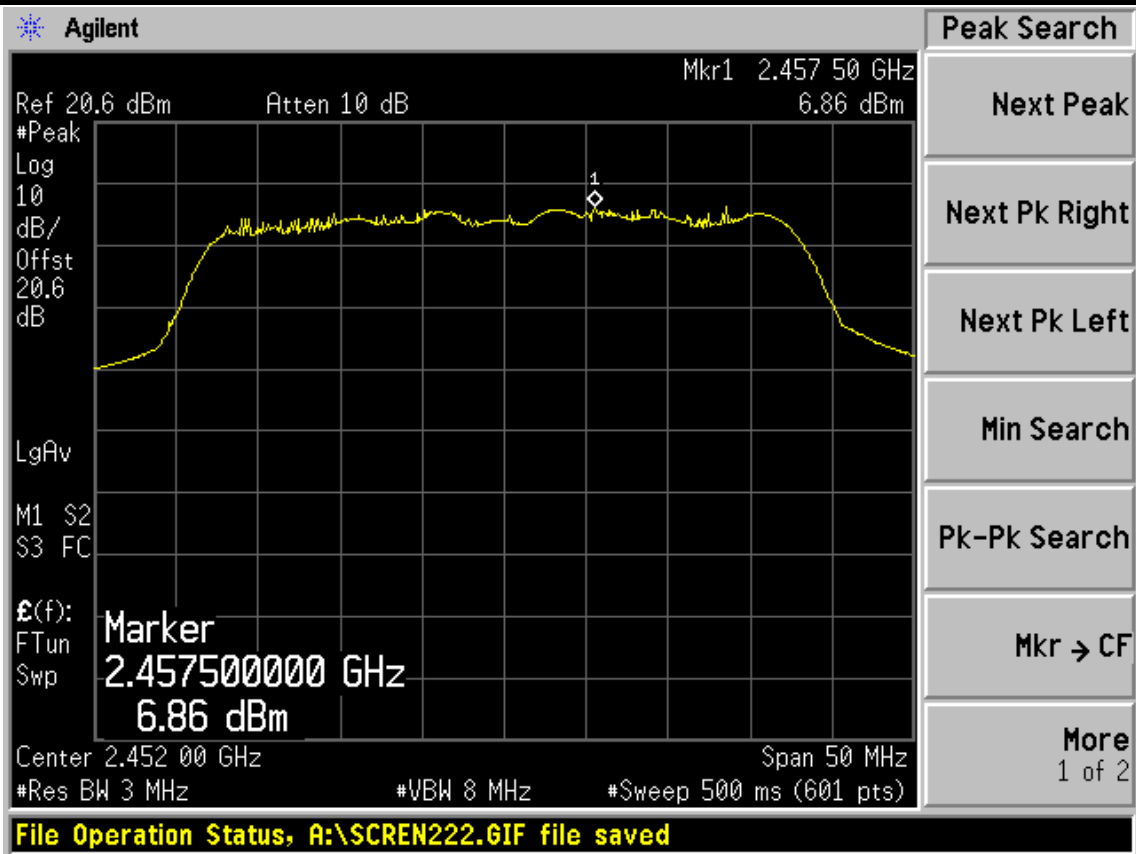
EUT: Wireless High Gain USB Adapter			
M/N: RNX-N150HG			
Test date: 2011-07-17		Pressure: 101.3 kpa	Humidity: 57 %
Tested by: Leo-Li		Test site: RF site	Temperature: 24.8 °C
Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 2 dBi
Test Mode	CH (MHz)	Peak output Power (dBm)	Limit (dBm)
11b	CH1	17.84	30
	CH6	17.76	30
	CH11	18.06	30
11g	CH1	22.31	30
	CH6	22.37	30
	CH11	21.15	30
11n HT20	CH1	18.35	30
	CH6	21.89	30
	CH11	18.70	30

Test Mode	CH	Result		Limit (dBm)
		Measured power(dBm)/3MHz	PK Output power (dBm)	
11n HT40	CH1	6.00	16.85	30
	CH4	9.82	20.67	30
	CH7	6.86	17.71	30
6dB Bandwidth for 11n HT40: 36.48MHz				
BW correction factor = $10\log[(36.48\text{MHz})/(3\text{MHz})] = 10.85\text{dB}$				
Conclusion: PASS				

FCC ID: WWMDN4210DV1



FCC ID: WWMDN4210DV1



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.

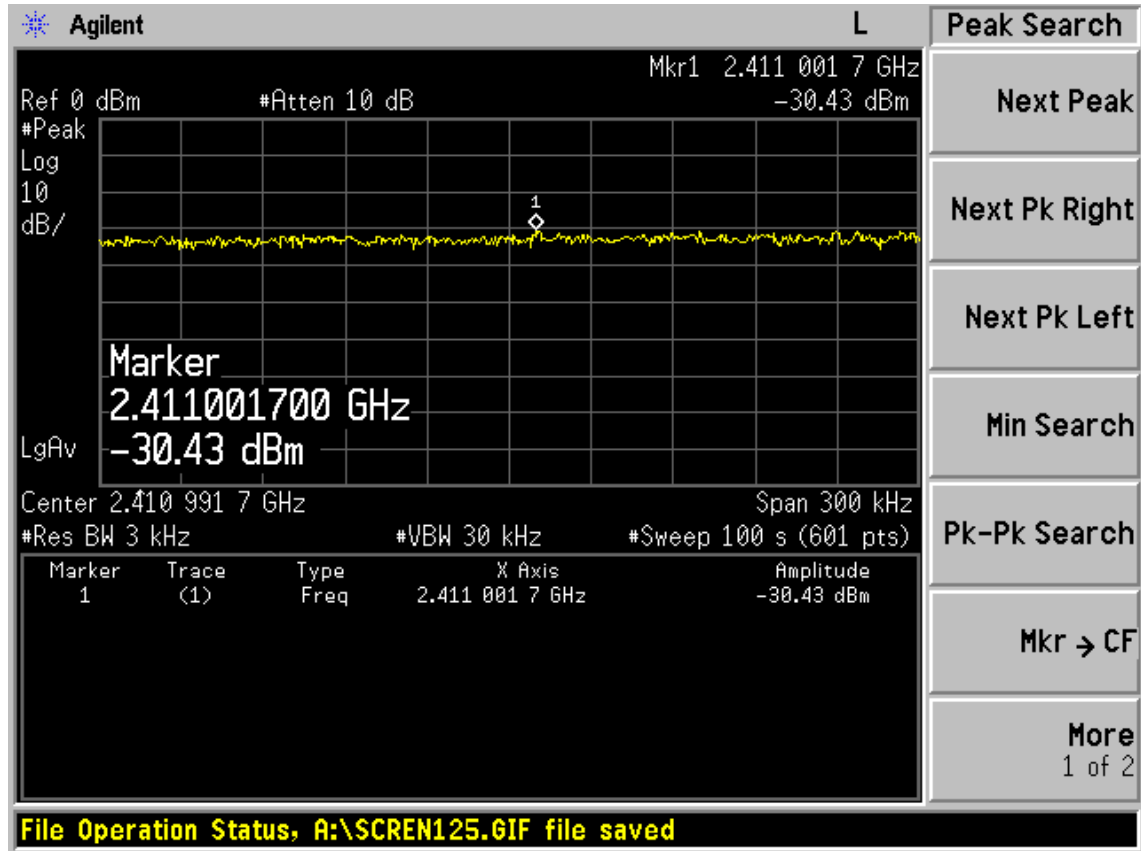
FCC ID: WWMDN4210DV1

9.4. Test Results

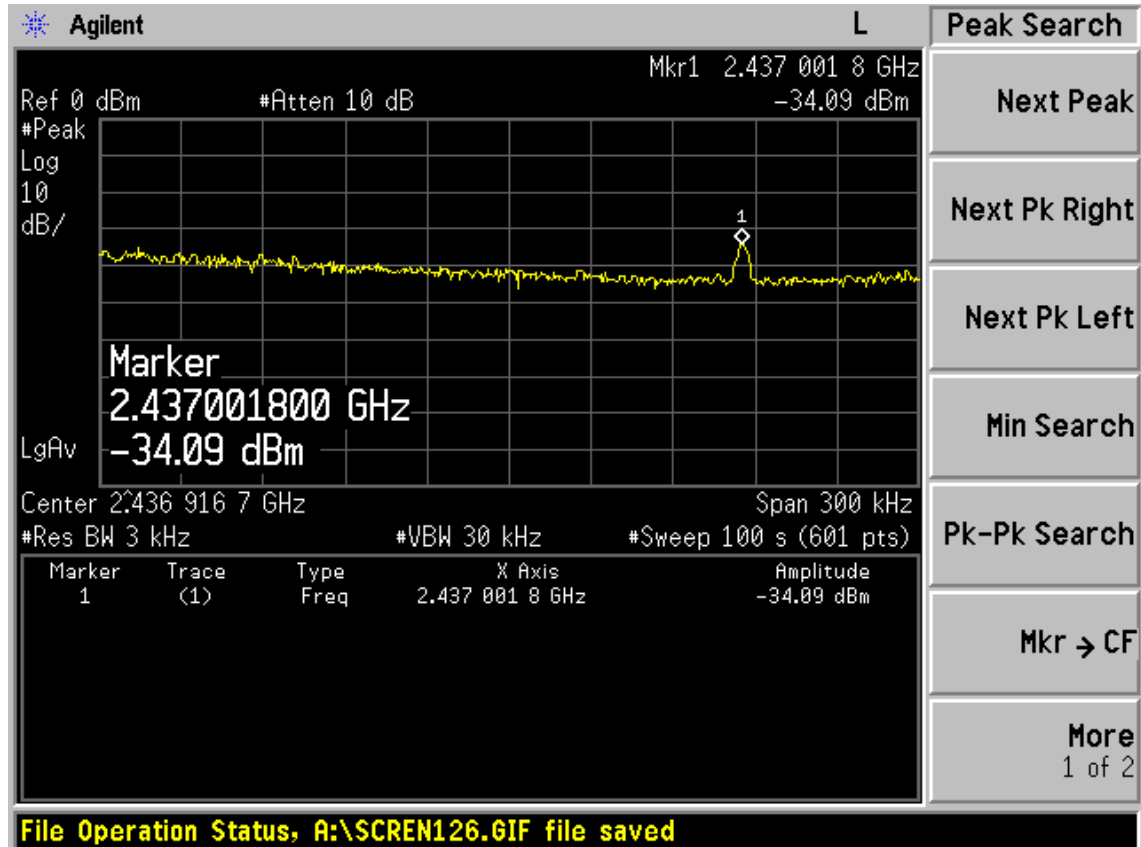
EUT: Wireless High Gain USB Adapter M/N: PW-DN4210D							
Power: DC 5V From PC input AC 120V/60Hz							
Data Rate: 11b: 1Mbps ; 11g : 6Mbps 11n HT20 : 6.5Mbps 11n HT40 : 13.5Mbps (Note 1)							
Ambient Temperature: 23°C			Relative Humidity: 60%				
Test date: 2011-07-03			Test site: RF site		Tested By: Leo-Li		
Test CH	11b 11g 11n HT20		CH1:2412MHz CH6:2437MHz CH11:2462MHz				
Test CH	11n HT40		CH1:2422MHz CH4:2437MHz CH7:2452MHz				
Mode	CH	Read(dBm)	Cable loss (dB)	Attenuator (dB)	Result (dBm)	Limit(dBm)	Conclusion
11b	CH1	-30.43	0.6	20.0	-9.83	8.00	Pass
	CH6	-34.09	0.6	20.0	-13.49	8.00	Pass
	CH11	-32.27	0.6	20.0	-11.67	8.00	Pass
11g	CH1	-31.35	0.6	20.0	-10.75	8.00	Pass
	CH6	-32.22	0.6	20.0	-11.62	8.00	Pass
	CH11	-33.41	0.6	20.0	-12.81	8.00	Pass
11n HT20	CH1	-35.37	0.6	20.0	-14.77	8.00	Pass
	CH6	-31.16	0.6	20.0	-10.56	8.00	Pass
	CH11	-34.14	0.6	20.0	-13.54	8.00	Pass
11n HT40	CH1	-40.76	0.6	20.0	-20.16	8.00	Pass
	CH4	-34.81	0.6	20.0	-14.21	8.00	Pass
	CH7	-38.42	0.6	20.0	-17.82	8.00	Pass
Note1: According Exploratory test, These data rate have the maximum output power							
Note2: Result=Read+Cable loss+Attenuator							

FCC ID: WWMDN4210DV1

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

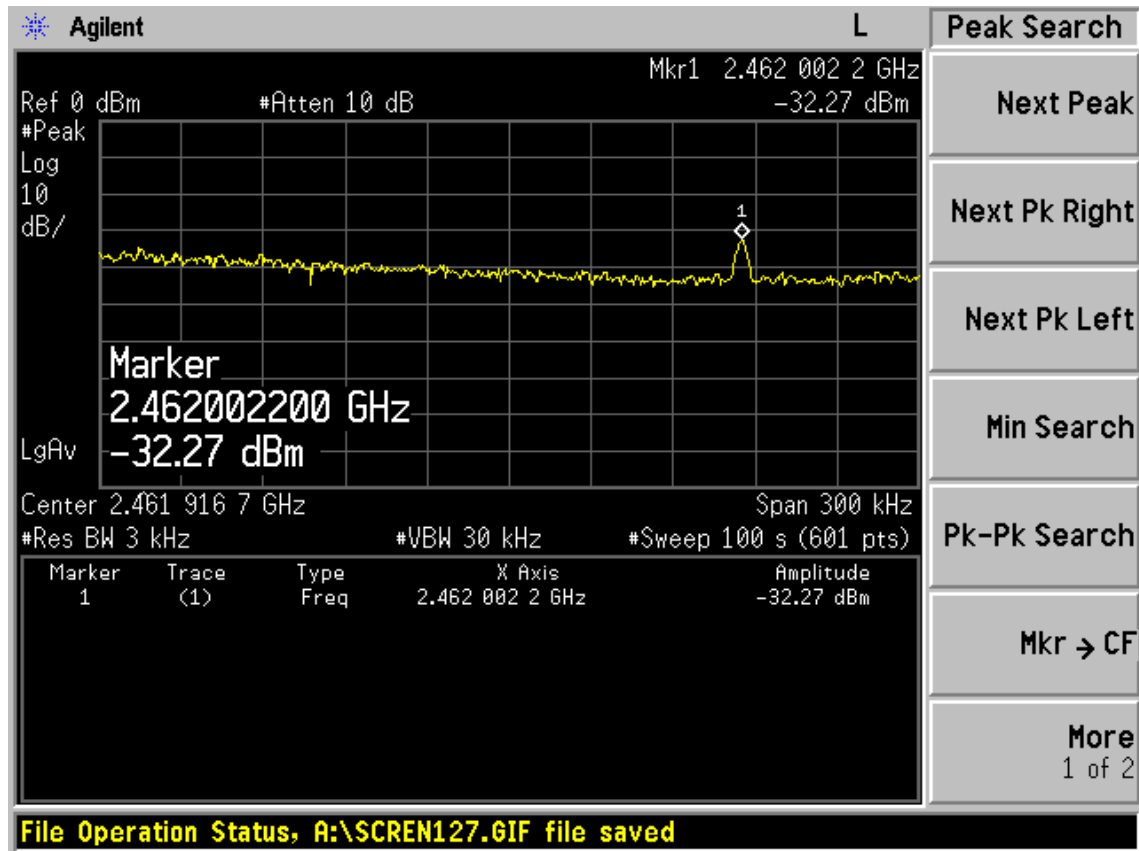


Test CH6: 2437MHz



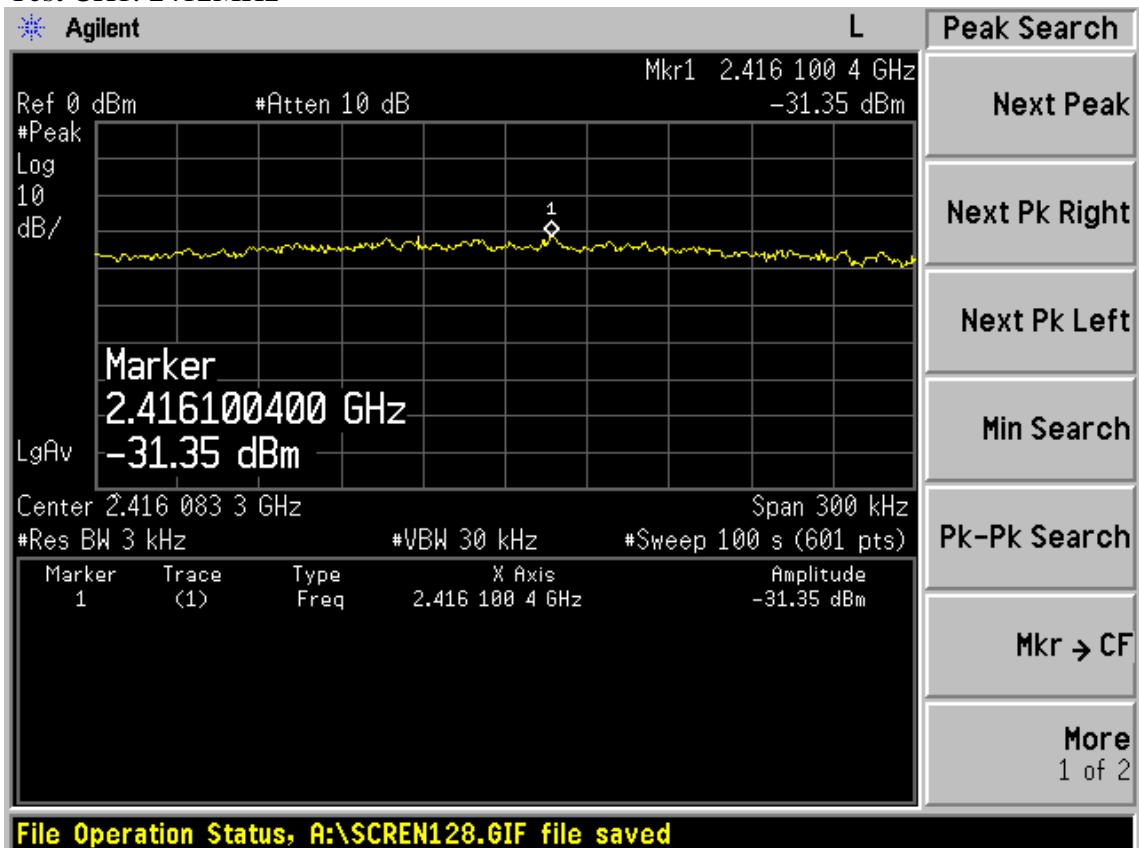
FCC ID: WWMDN4210DV1

Test CH11: 2462MHz



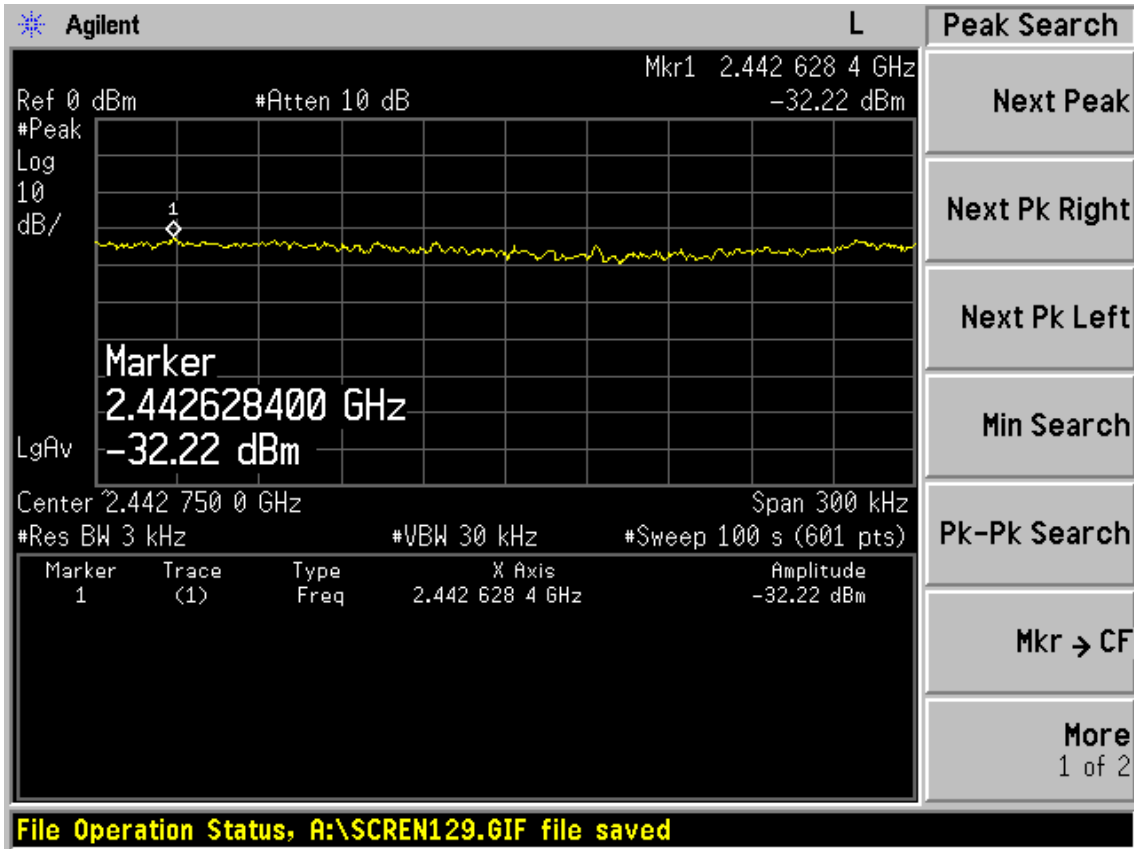
Test Mode: IEEE 802.11g TX

Test CH1: 2412MHz

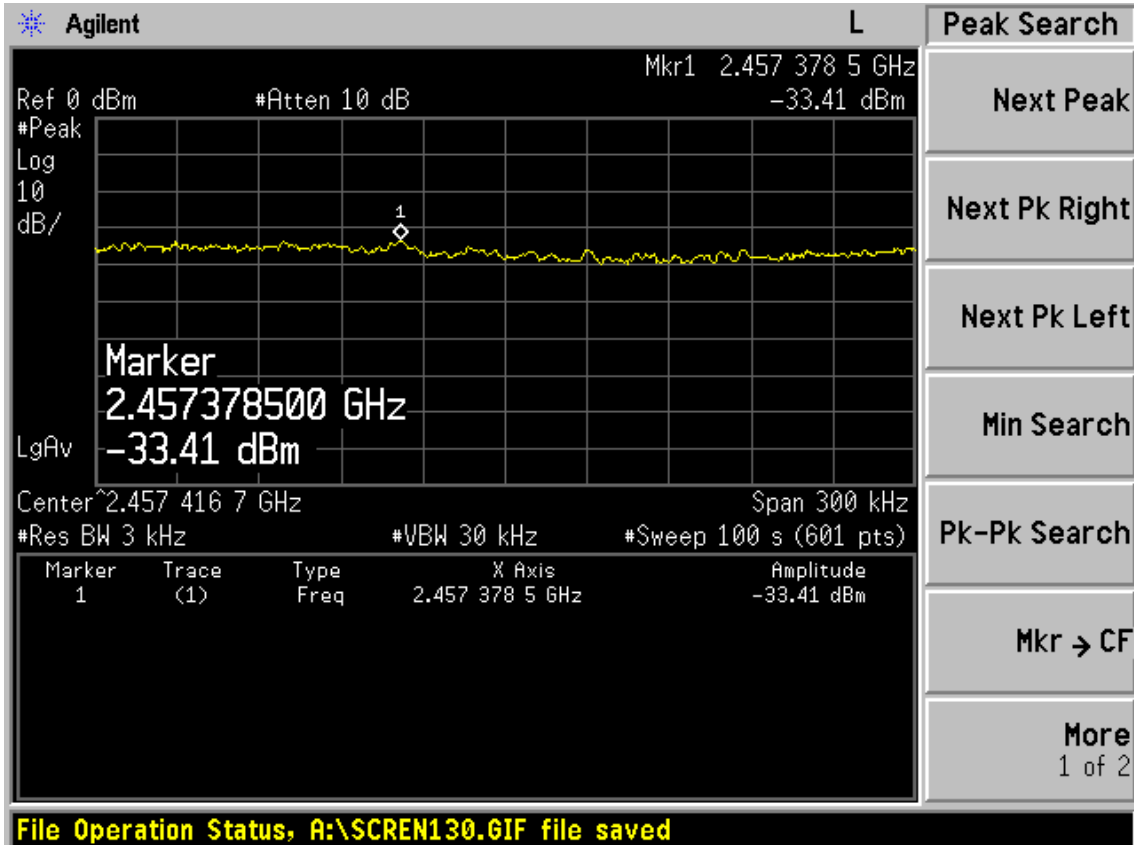


FCC ID: WWMDN4210DV1

Test CH6: 2437MHz



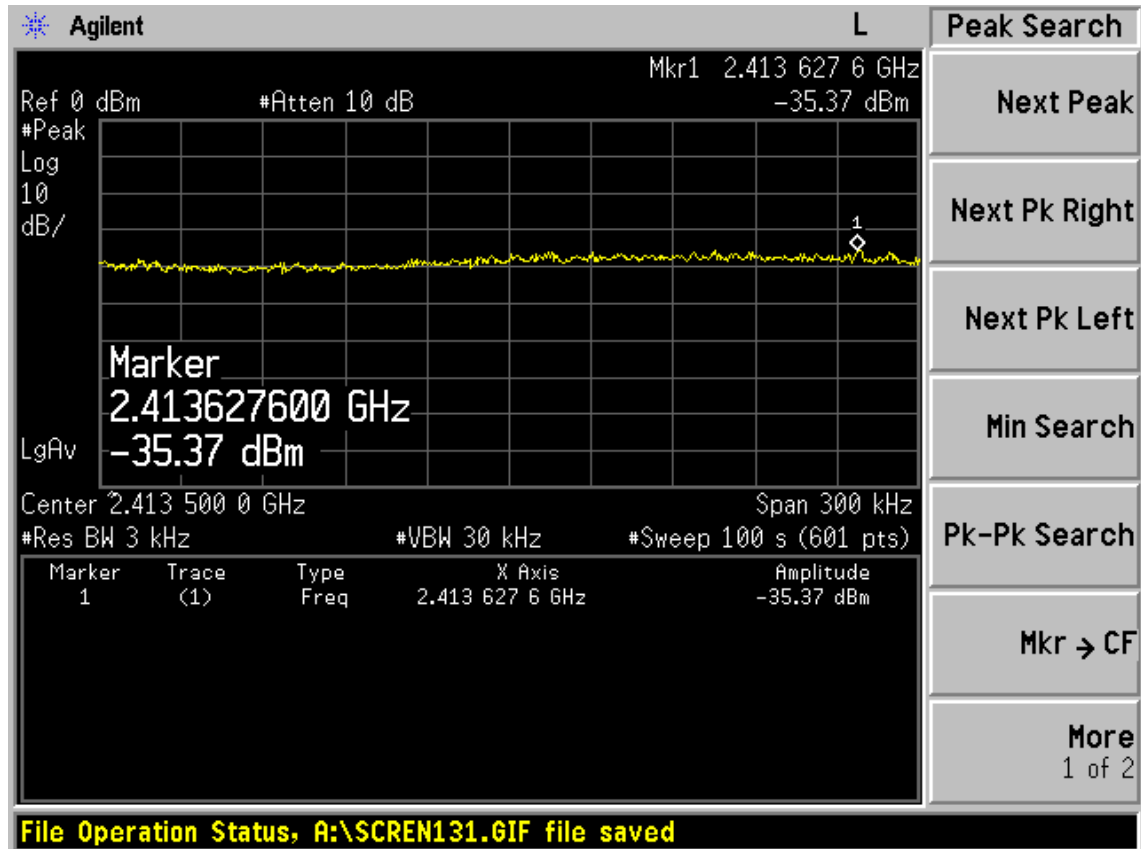
Test CH11: 2462MHz



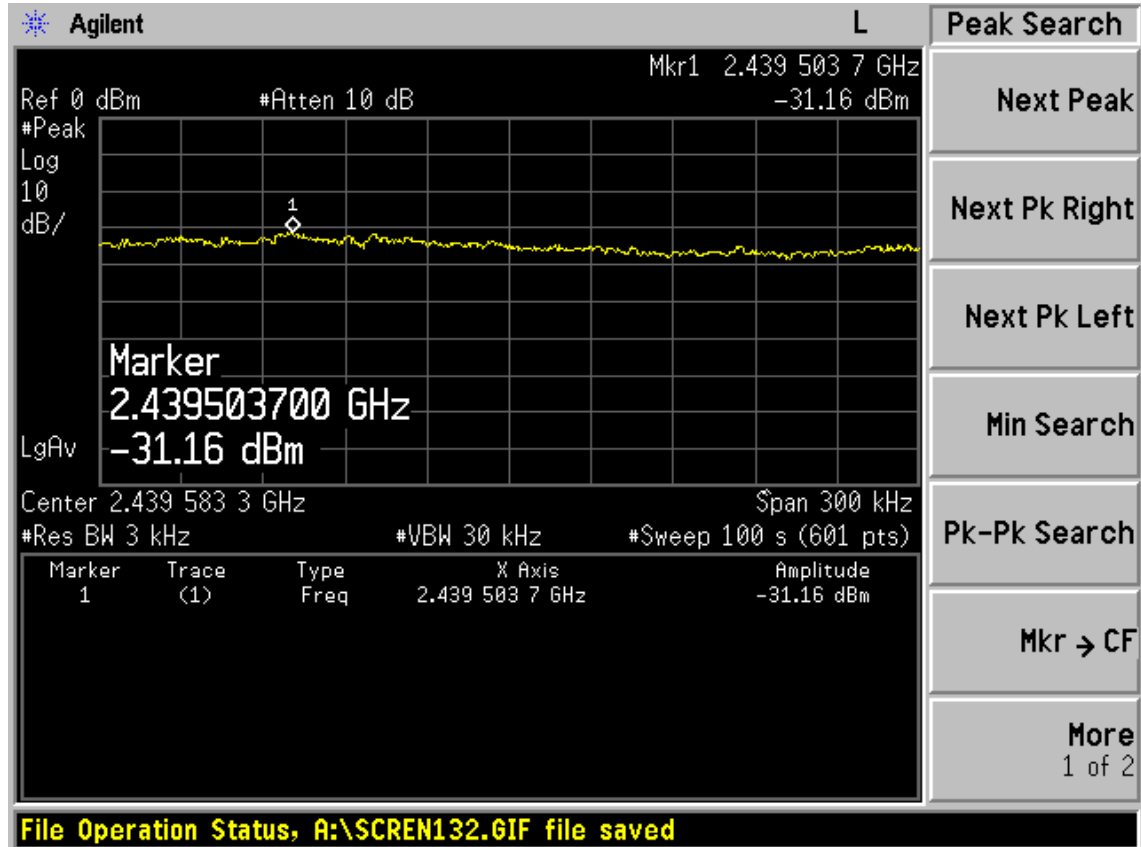
FCC ID: WWMDN4210DV1

Test Mode: IEEE 802.11n HT20 TX

Test CH1: 2412MHz

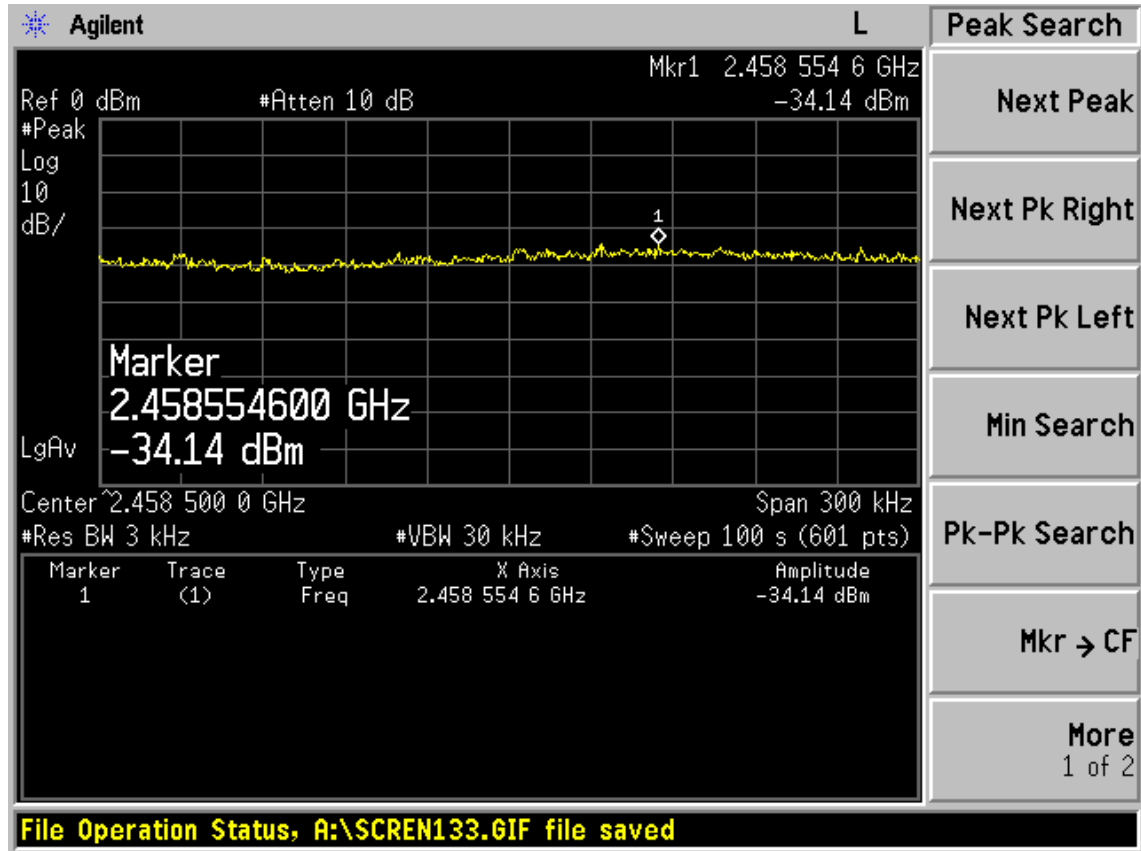


Test CH6: 2437MHz



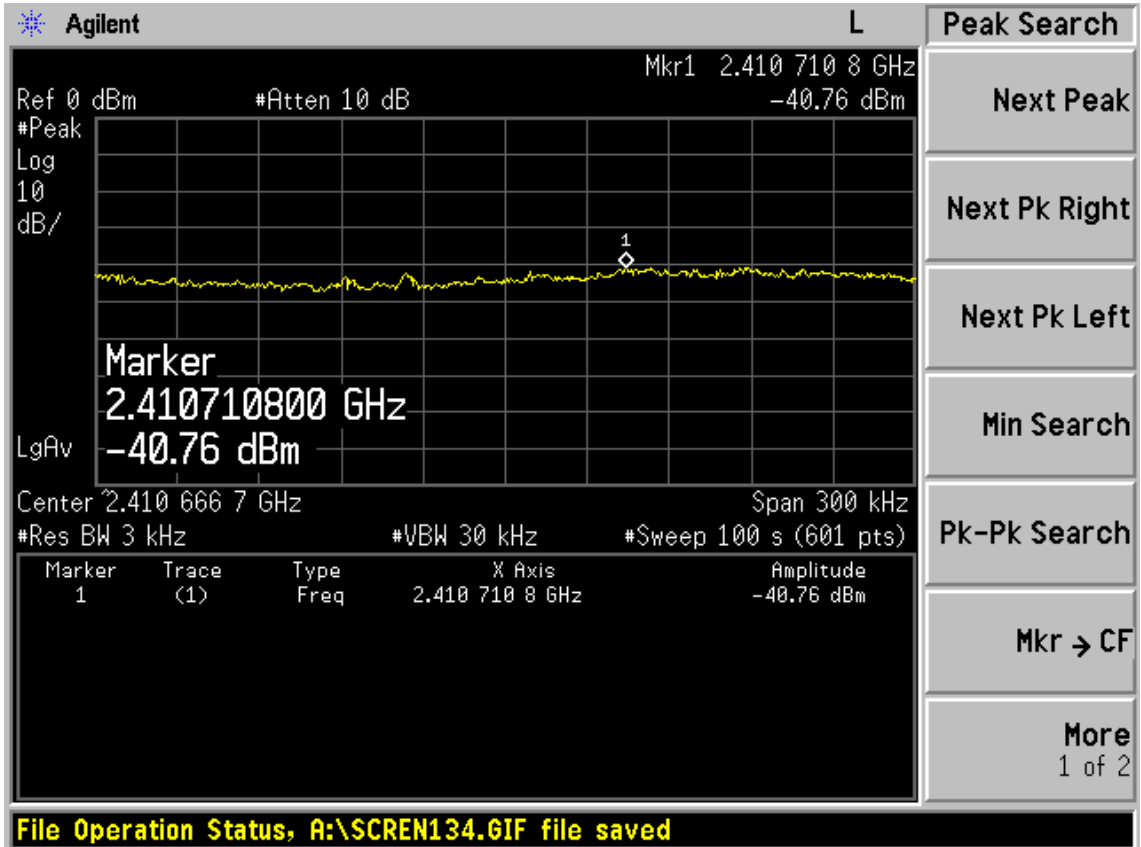
FCC ID: WWMDN4210DV1

Test CH11: 2462MHz



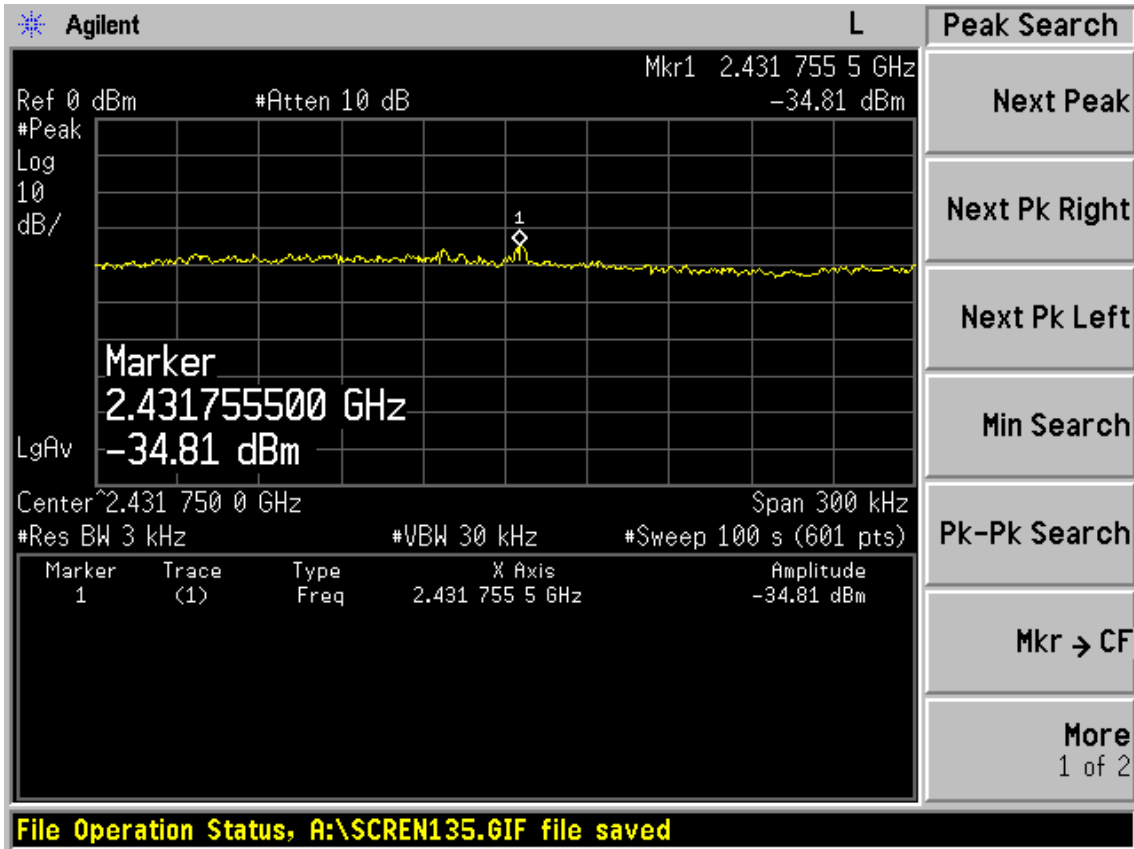
Test Mode: IEEE 802.11n HT40 TX

Test CH1: 2422MHz

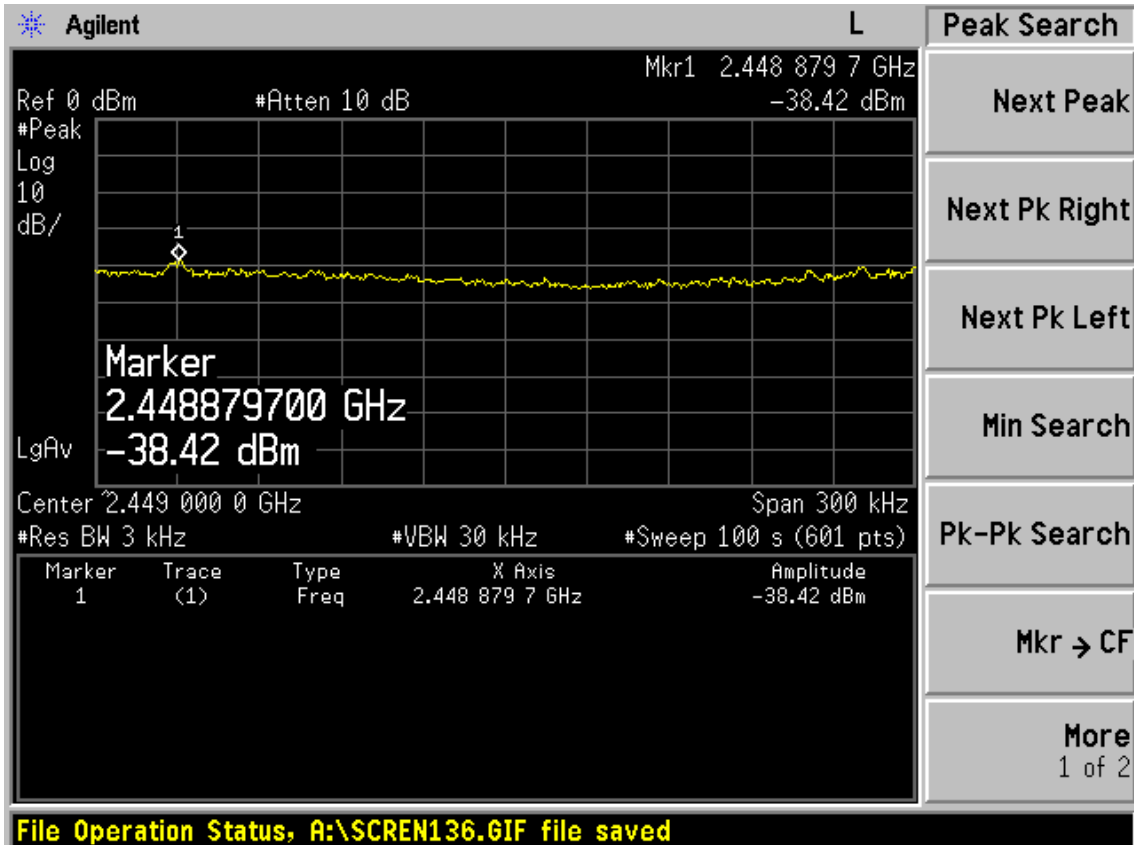


FCC ID: WWMDN4210DV1

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 is integrated PCB antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 0dBi.

FCC ID: WWMDN4210DV1

11. DEVIATION TO TEST SPECIFICATIONS

[NONE]