

APPLICATION FOR CERTIFICATION  
On Behalf of  
D-Link Corporation

EUT Description	Model Number
Wireless G USB Adapter	DWA-110
Wireless 150 USB Adapter DWA-125	DWA-125
IEEE 802.11g Wireless LAN USB Adapter	WUA-2340

FCC ID: KA2WA125A1

Prepared for : D-Link Corporation  
No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114,  
Taiwan, R.O.C.

Prepared By : Audix Technology (Shenzhen) Co., Ltd.  
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Report Number : ACS-F09080  
Date of Test : Apr.12~19, 2009  
Date of Report : Apr.22, 2009

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# TEST REPORT CERTIFICATION

Applicant : D-Link Corporation  
 Manufacturer : Alpha Networks Inc.

EUT Description & Model No.	EUT Description	Model Number
	Wireless G USB Adapter	DWA-110
	Wireless 150 USB Adapter DWA-125	DWA-125
	IEEE 802.11g Wireless LAN USB Adapter	WUA-2340

FCC ID : KA2WA125A1  
 Power Supply : DC 5V  
 Test Voltage : DC 5V From PC Input AC 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2008

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.

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. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

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.

Date of Test : Apr.12~ 19, 2009

Prepared by : Edie Huang  
 Edie Huang / Assistant

Reviewer : Jamy Yu  
 Jamy Yu / Senior Engineer

Approved & Authorized Signer : Ken Lu  
 Ken Lu / Manager

**AUDIX** 睿華科技(深圳)有限公司  
 Audix Technology (Shenzhen) Co., Ltd.  
 EMC部門報告專用章  
 Stamp only for EMC Dept. Report  
 Signature: Ken Lu 8/5 09

# 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 Test	FCC Part 15: 15.207 ANSI C63.4: 2003 KDB558074	PASS
Radiated Emission Test	FCC Part 15: 15.209 ANSI C63.4: 2003 KDB558074	PASS
Band Edge Compliance Test	FCC Part 15: 15.247 ANSI C63.4: 2003 KDB558074	PASS
Conducted spurious emissions test	FCC Part 15: 15.247 KDB558074	PASS
6dB Bandwidth Test	FCC Part 15: 15.247 KDB558074	PASS
Output Power Test	FCC Part 15: 15.247 KDB558074	PASS
Power Spectral Density Test	FCC Part 15: 15.247 KDB558074	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

Product Name & Model Number	EUT Description		Model Number
	Wireless G USB Adapter		DWA-110
	Wireless 150 USB Adapter DWA-125		DWA-125
	IEEE 802.11g Wireless LAN USB Adapter		WUA-2340

Note: This product will have three name and model number, and the fact product is the same.

FCC ID : KA2WA125A1

Operation Frequency : IEEE 802.11b: 2412MHz—2462MHz  
IEEE 802.11g: 2412MHz—2462MHz  
IEEE 802.11n HT20: 2412MHz—2462MHz  
IEEE 802.11n 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)

Data Rate : IEEE 802.11b: 11/5.5/2/1Mbps.  
IEEE 802.11g: 54/48/36/24/18/12/9/6Mbps.  
IEEE 802.11n HT20: (MCS0-MCS7)6.5, 13, 19.5, 26, 39, 52, 58.5, 65Mbps  
IEEE 802.11n HT40: (MCS0-MCS7)13.5, 27, 40.5, 54, 81, 108, 121.5, 135Mbps

PK Output Power : IEEE 802.11b: 20.16dBm  
IEEE 802.11g: 26.22dBm  
IEEE 802.11n HT20: 26.32dBm  
IEEE 802.11n HT40: 24.52dBm

Antenna Assembly Gain : 0dBi (maximum)

Applicant : D-Link Corporation  
No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114, Taiwan, R.O.C.

Manufacturer : Alpha Networks Inc.  
NO.8 Li-shing Rd. VII, Science-based Industrial Park, Hsinchu, Taiwan.

USB Cable : Unshielded, Detachable, 1m

Date of Test : Apr.12~19, 2009

Date of Receipt : Apr.10, 2009

Sample Type : Prototype production

## 2.2. Test Information

The test software “RT307xQA” was used to control EUT work in Continuous TX mode, 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	1	Low :CH1	2412
	1	Middle: CH6	2437
	1	High: CH11	2462
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	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
Note: According exploratory test and product specification EUT will have maximum output power in those data rate, so those data rate were used for all test.			

KDB Publication No. 558074 was used as test method for all the test.

## 2.3. Tested Supporting System Details

### 2.3.1. NOTEBOOK

M/N	:	PP09S
S/N	:	N/A
Manufacturer	:	DELL
Power Adaptor	:	Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachable, 4.0m (Bond one ferrite core)



## 2.4. 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 : Mar.31, 2009 File on Federal  
Communication Commission  
Registration Number: 90454

3m & 10m Anechoic Chamber : Jan. 31, 2007 File on Federal  
Communication Commission  
Registration Number: 794232

EMC Lab. : Accredited by DATech, German  
Registration Number: DAT-P-091/99-01  
Feb. 02, 2009

Accredited by NVLAP, USA  
NVLAP Code: 200372-0  
Apr. 01, 2009

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

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.88dB	
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.86dB	Polarize: V
	4.3dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.78dB	Polarize: H
	2.82dB	Polarize: V
Uncertainty for radio frequency	$1 \times 10^{-9}$	
Uncertainty for conducted RF Power	0.34dB	
Uncertainty for temperature	0.2°C	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

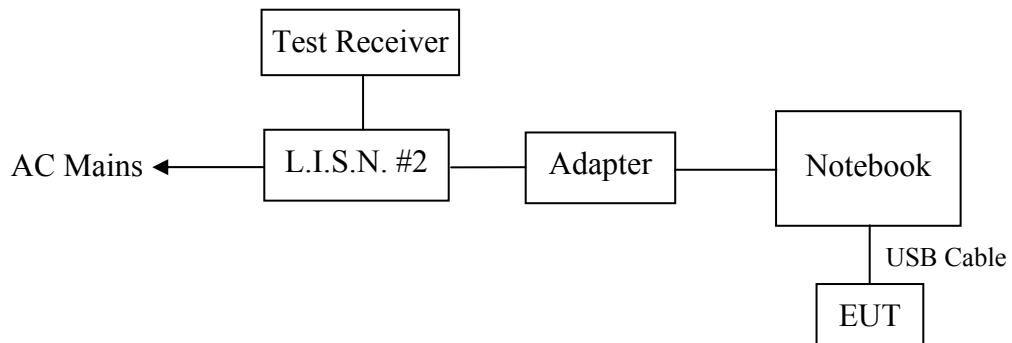
### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI	100842	Oct.24, 08	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 10,08	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May 10,08	1 Year
5.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	Nov.10, 08	1/2 Year
6.	Coaxial Switch	Anritsu	MP59B	M55367	Nov.01, 08	1/2 Year
7.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	Nov.10, 08	1/2 Year

#### 3.2. Block Diagram of Test Setup

Block diagram of connection between the EUT and simulators



*(EUT: Wireless G USB Adapter)*

#### 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 G USB Adapter (EUT)

Model Number : DWA-110  
Serial Number : N/A

#### 3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.4

### 3.5.Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. PC run test software to control the EUT worked in test mode (Tx Mode) and measured it.

### 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. 2#). Power on the PC and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. Both sides of 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 C63.4: 2003 on Conducted Emission Test.

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

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

The test result are reported on Section 3.7.,

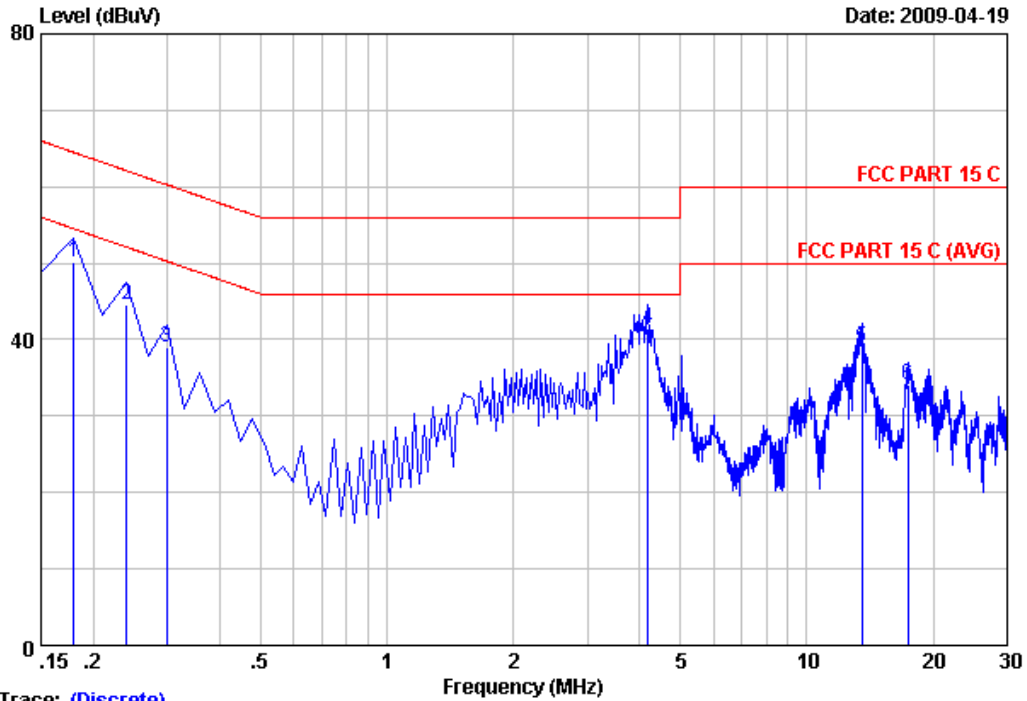
### 3.7.Power Line Conducted Emission Test Results

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



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Data: 1 File: D:\DATA\2009 Report\D\ACS9Q480.EM6 (4)



Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :1  
 Dis./Ant. \*\*: KNW407 1# VA  
 Limit :FCC PART 15 C  
 Env./Ins. :Temp:23'C Humi:54% Engineer :Paul  
 EUT :Wireless G USB Adapter  
 Power Rating :DC 5V From PC input AC 120V/60Hz  
 Test Mode :Tx mode  
 :M/N:DWA-110

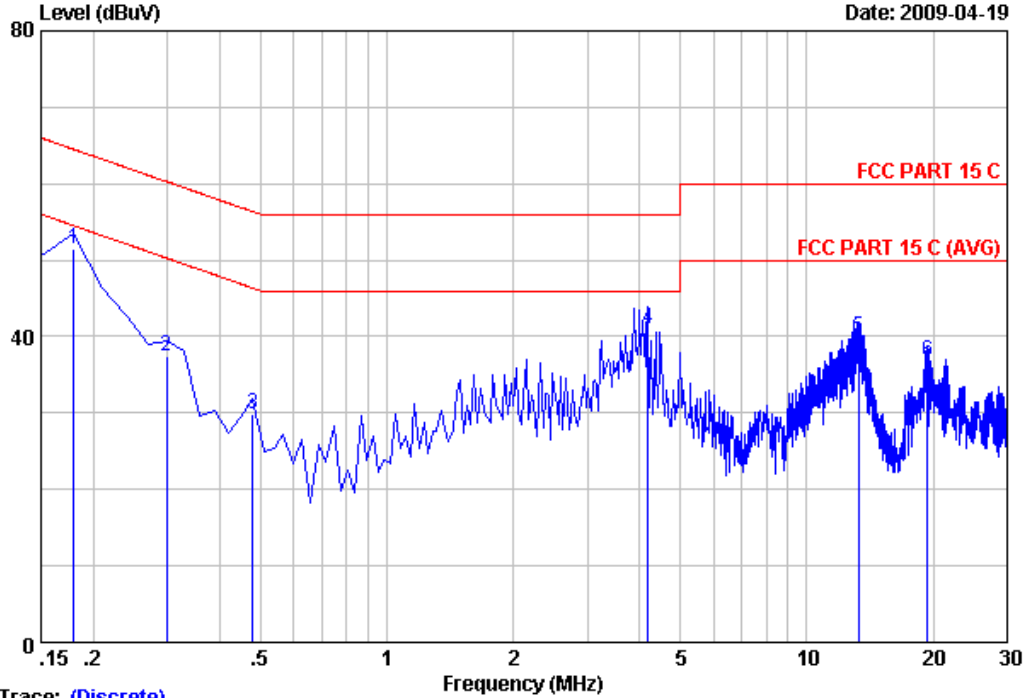
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17985	0.29	9.82	40.13	50.24	64.49	14.25	QP
2	0.23955	0.28	9.90	34.28	44.46	62.11	17.65	QP
3	0.29925	0.26	9.89	28.78	38.93	60.26	21.33	QP
4	4.180	0.10	9.92	31.44	41.46	56.00	14.54	QP
5	13.553	0.27	10.02	28.81	39.10	60.00	20.90	QP
6	17.433	0.36	10.06	23.57	33.99	60.00	26.01	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.



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Data: 2 File: D:\DATA\2009 Report\D\ACS9Q480.EM6 (4)



Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :2  
 Dis./Ant. \*\*: KNW407 1# VB  
 Limit :FCC PART 15 C  
 Env./Ins. :Temp:23'C Humi:54% Engineer :Paul  
 EUT :Wireless G USB Adapter  
 Power Rating :DC 5V From PC input AC 120V/60Hz  
 Test Mode :Tx mode  
 :M/N:DWA-110

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17985	0.15	9.82	41.57	51.54	64.49	12.95	QP
2	0.29925	0.14	9.89	27.43	37.46	60.26	22.80	QP
3	0.47835	0.20	9.87	19.78	29.85	56.37	26.52	QP
4	4.180	0.04	9.92	30.94	40.90	56.00	15.10	QP
5	13.284	0.21	10.01	29.56	39.78	60.00	20.22	QP
6	19.373	0.40	10.07	26.33	36.80	60.00	23.20	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

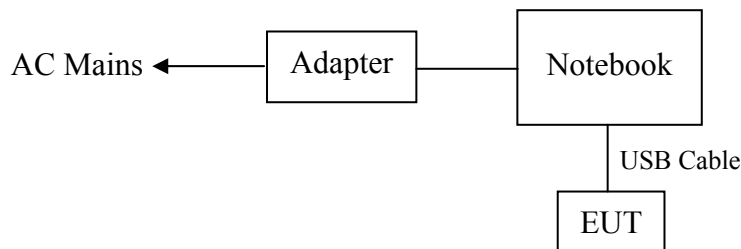
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Dec.05,08	1/2 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	May 10, 08	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May 10, 08	1 Year
4.	Amplifier	HP	8447D	2648A04738	Nov.04, 08	1/2 Year
5.	Bilog Antenna	Schaffner	CBL6111C	2598	Nov.10, 08	1 Year
6.	RF Cable	JINGCHENG	JBV400	3# Chamber No.1	Nov.01, 08	1/2 Year
7.	RF Cable	JINGCHENG	JBV400	3# Chamber No.2	Nov.01, 08	1/2 Year
8.	RF Cable	JINGCHENG	JBV400	3# Chamber No.3	Nov.01, 08	1/2 Year
9.	RF Cable	JINGCHENG	JBV400	3# Chamber No.4	Nov.01, 08	1/2 Year
10.	Coaxial Switch	Anritsu	MP59B	M73989	Nov.01, 08	1/2 Year

Frequency rang: above 1000MHz

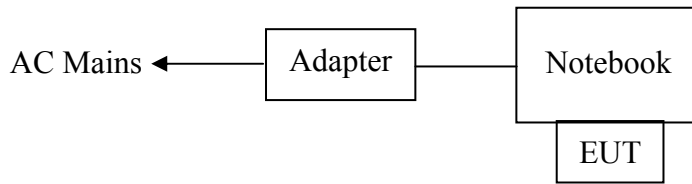
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May 10, 08	1 Year
2.	Amp	HP	8449B	3008A08495	Oct.24, 08	1 Year
3.	Antenna	EMCO	3115	9607-4877	May 27, 08	1.5 Year
4.	Antenna	EMCO	3116	6088	May.27,08	1.5 Year
5.	RF Cable	Hubersuhner	SUCOFLEX 102	28620/2	May,28, 08	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX 102	271471/4	May,28, 08	1 Year
7.	RF Cable	Hubersuhner	SUCOFLEX 102	29086/2	May,28, 08	1 Year

### 4.2. Block Diagram of Test Setup

Block diagram of connection between the EUT and simulators  
Mode I (Worse Case):



Mode II:

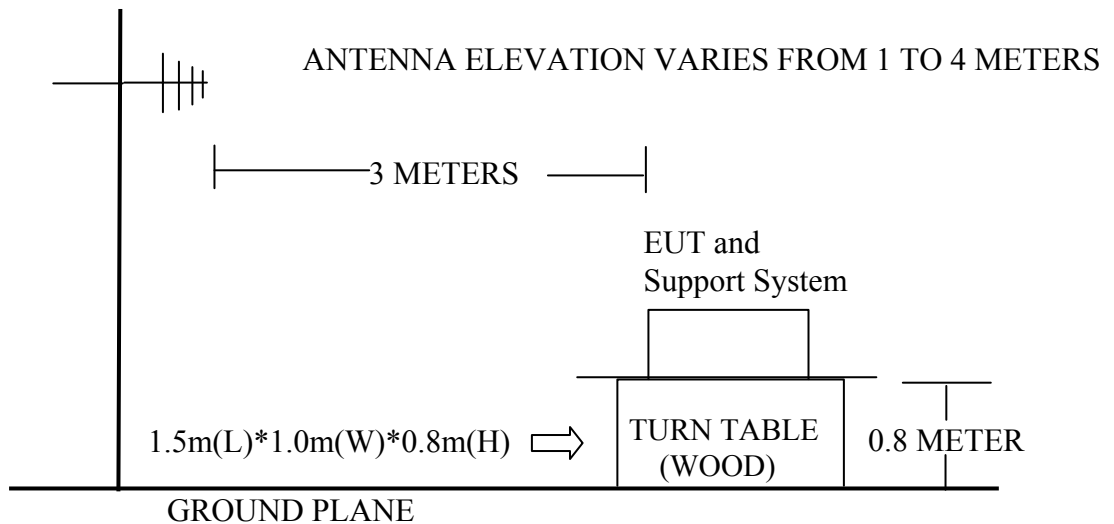


Note: This product will be connected to computer USB port with 1m line USB cable or direct connected to USB port of computer. and according exploratory test when connected to computer with USB cable will have worse radiated emissions, so the below final test was chose with USB cable.

**(EUT: Wireless G USB Adapter)**

4.2.1. In Anechoic Chamber

ANTENNA TOWER



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

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 following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 4.4.1. Wireless G USB Adapter (EUT)

Model Number : DWA-110  
Serial Number : N/A

## 4.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.4

## 4.5.Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turned on the power of all equipment.

4.5.3. Notebook run test software to control the EUT worked in test mode (Tx Mode) and measured it.

## 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 work normally, we use a keyboard test soft ware, let EUT 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 1MHz 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 10<sup>th</sup> harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

#### 4.7.Radiated Emission Test Results

**PASS.**

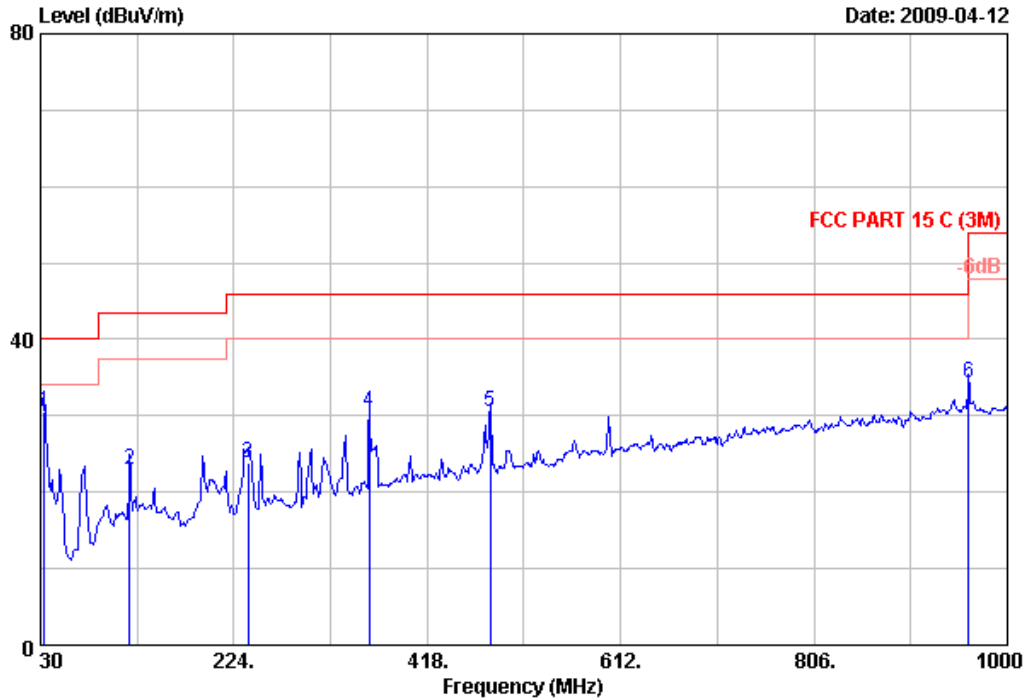
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Frequency: 30MHz~1GHz



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Postcode: 518057

Data: 2 File: D:\2009 Report Data\DWACS9Q480.EM6 (24)



Site no. : 3m Chamber Data no. : 2  
 Dis. / Ant. : 3m CBL6111C Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/47% Engineer : Sunny  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test Mode : Tx Mode

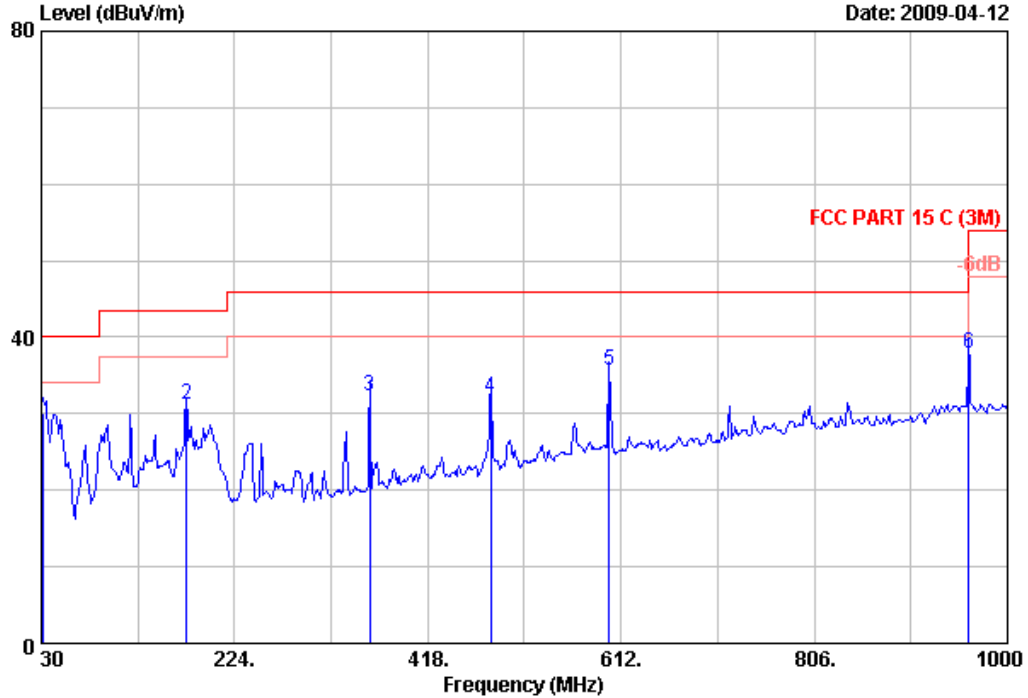
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	33.880	17.60	0.50	40.25	30.42	40.00	9.58	QP
2	119.240	11.75	1.02	37.85	23.06	43.50	20.44	QP
3	238.550	11.55	1.56	37.79	23.82	46.00	22.18	QP
4	359.800	15.32	2.05	40.40	30.46	46.00	15.54	QP
5	481.050	17.68	2.46	38.42	30.54	46.00	15.46	QP
6	961.200	23.69	4.04	33.90	34.38	54.00	19.62	QP

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



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Data: 1 File: D:\2009 Report Data\ACS9Q480.EM6 (24)



Site no. : 3m Chamber Data no. : 1  
 Dis. / Ant. : 3m CBL6111C Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/47% Engineer : Sunny  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test Mode : Tx Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.970	19.30	0.48	38.30	30.15	40.00	9.85	QP
2	175.500	9.64	1.28	47.57	31.15	43.50	12.35	QP
3	359.800	15.32	2.05	42.21	32.27	46.00	13.73	QP
4	481.050	17.68	2.46	39.96	32.08	46.00	13.92	QP
5	600.360	19.47	2.90	41.52	35.72	46.00	10.28	QP
6	961.200	23.69	4.04	37.50	37.98	54.00	16.02	QP

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

Frequency: 1GHz~18GHz

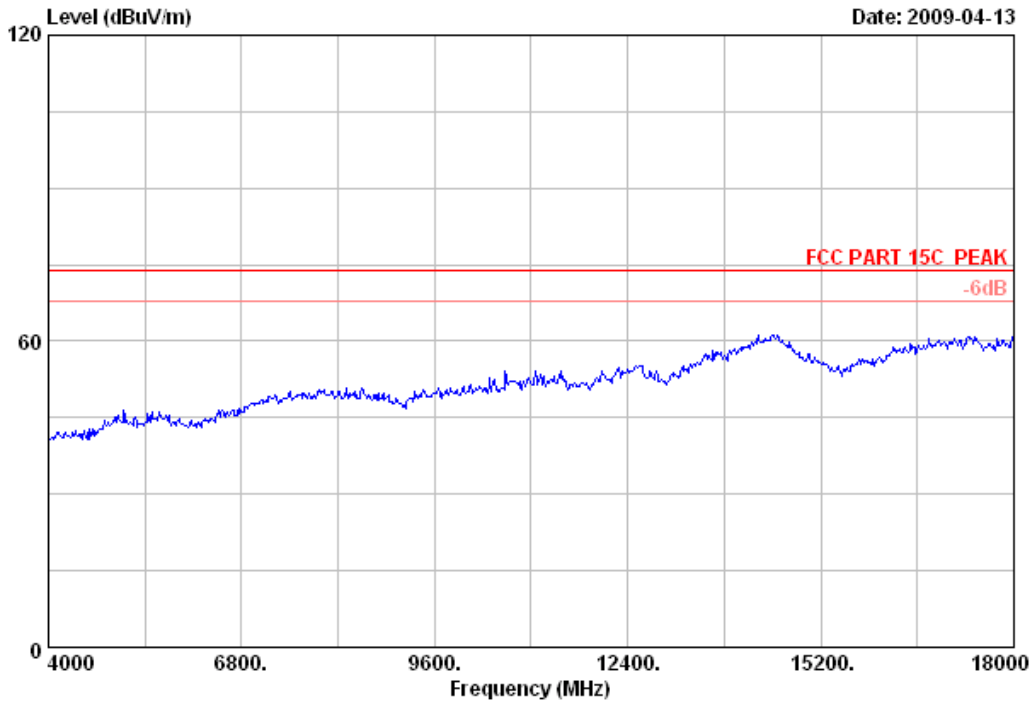


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Data: 49

File: E:\2009 report data\D'D-LINK\ACS9Q480.EM6 (220)

Date: 2009-04-13

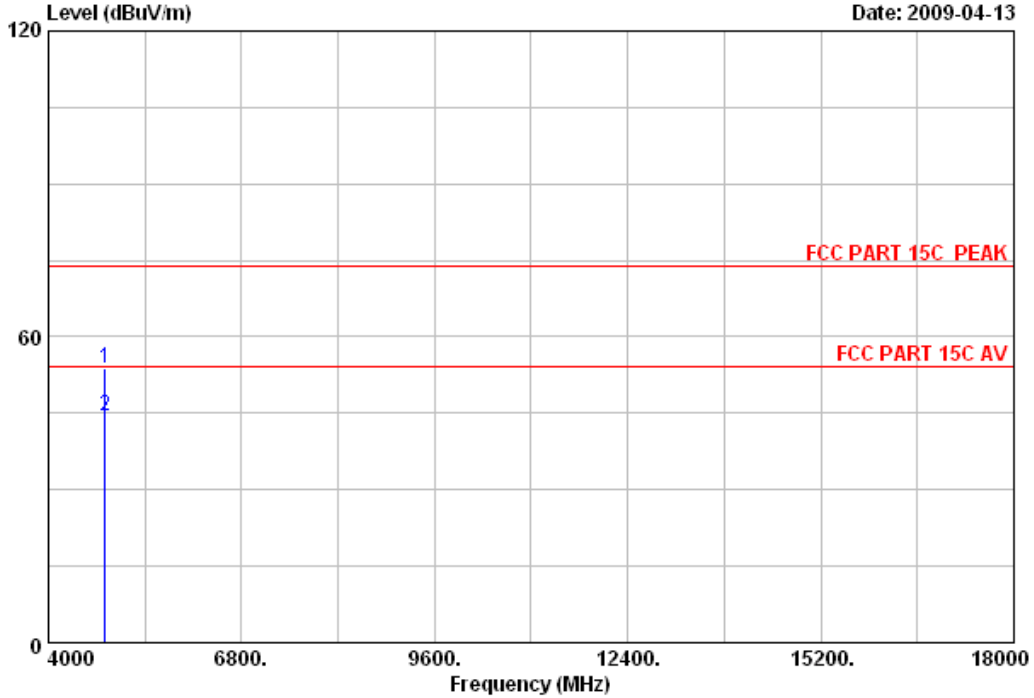


Site no.	: 3m Chamber	Data no.	: 49
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11b CH1 2412MHz		



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Data: 50 File: E:\2009 report data\D'D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 50  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH1 2412MHz

	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	10.55	34.59	43.42	53.85	74.00	20.15	Peak
2	4824.000	34.47	10.55	34.59	34.12	44.55	54.00	9.45	Average

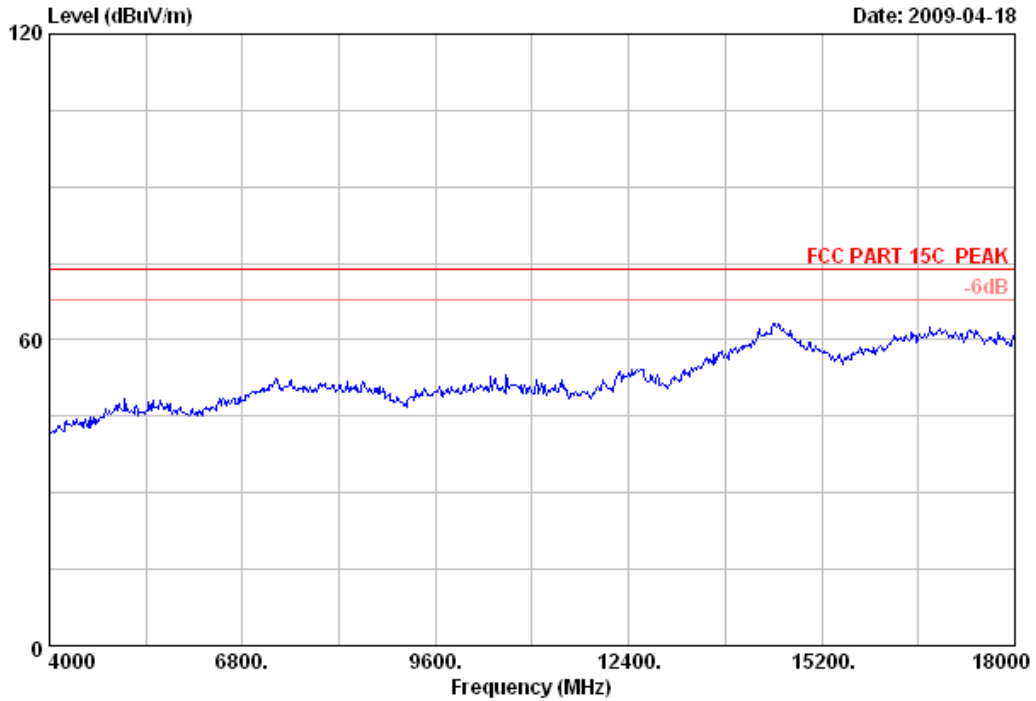
Remarks:

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



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Data: 51 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)

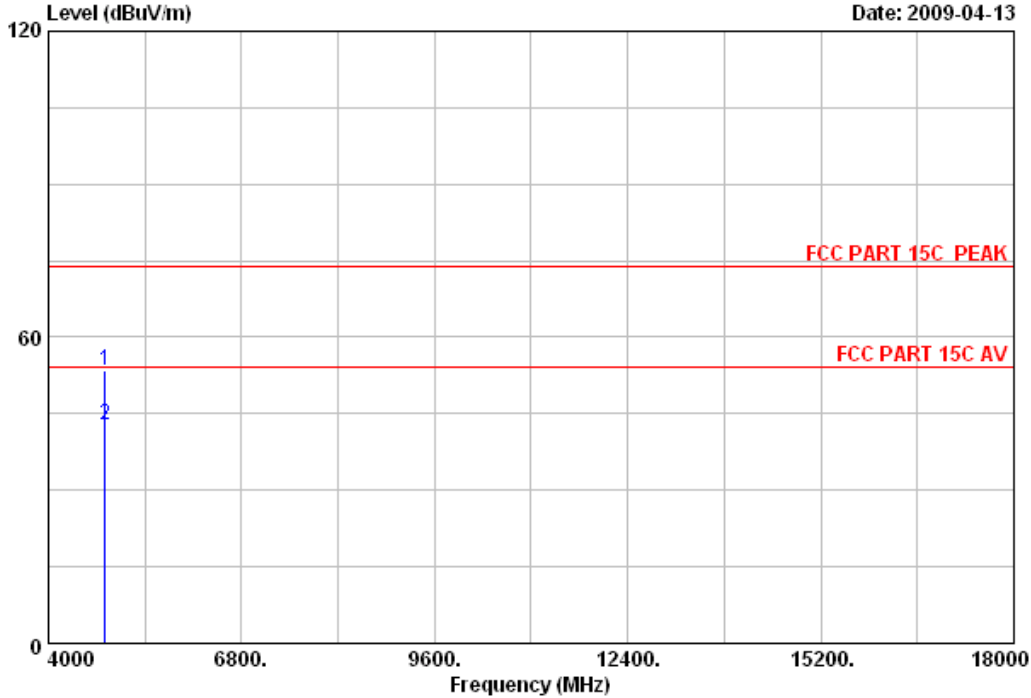


Site no.	: 3m Chamber	Data no.	: 51
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11b CH1 2412MHz		



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Data: 52 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 52  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH1 2412MHz

	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	10.55	34.59	42.94	53.37	74.00	20.63	Peak
2	4824.000	34.47	10.55	34.59	32.50	42.93	54.00	11.07	Average

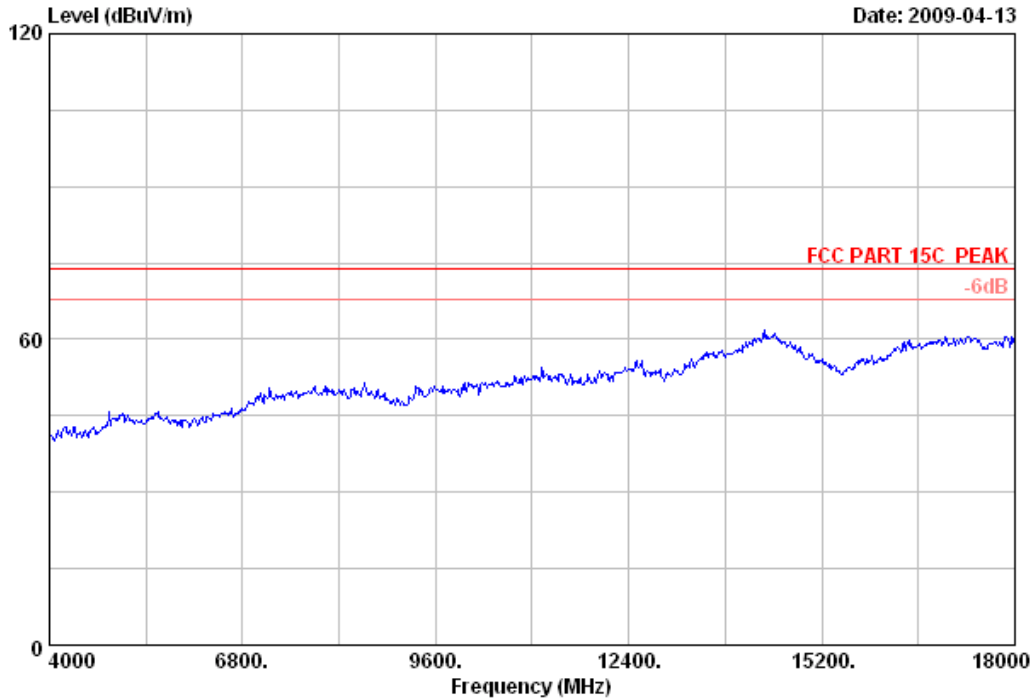
Remarks:

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



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Data: 53 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



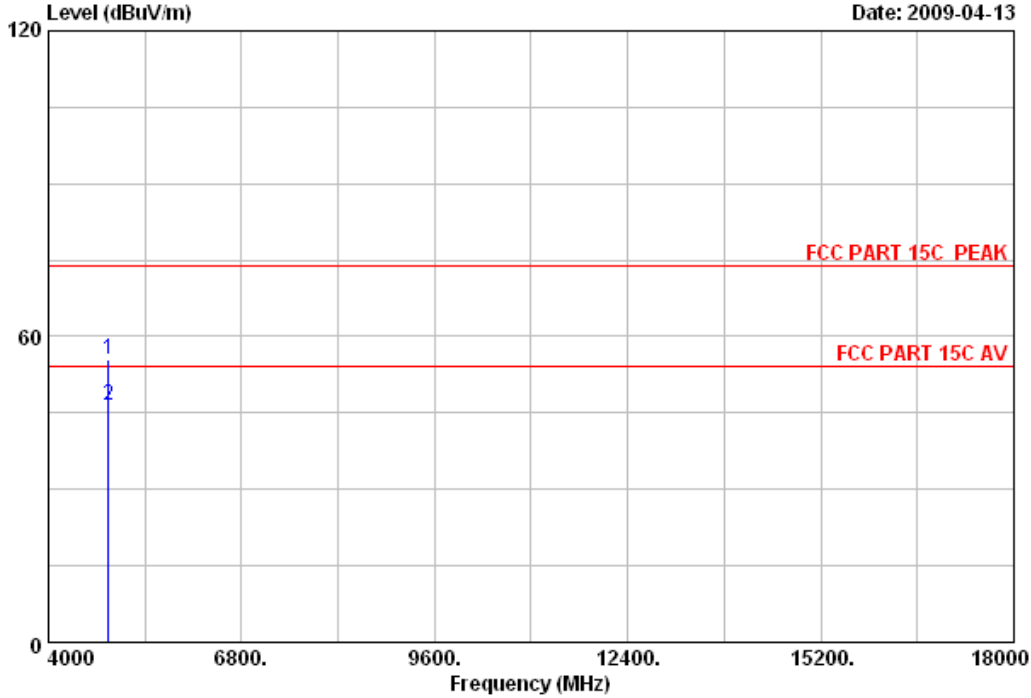
Site no.	: 3m Chamber	Data no.	: 53
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11b CH6 2437MHz		





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Data: 54 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 54  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH6 2437MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	10.56	34.58	44.81	55.57	74.00	18.43	Peak
2	4874.000	34.78	10.56	34.58	35.85	46.61	54.00	7.39	Average

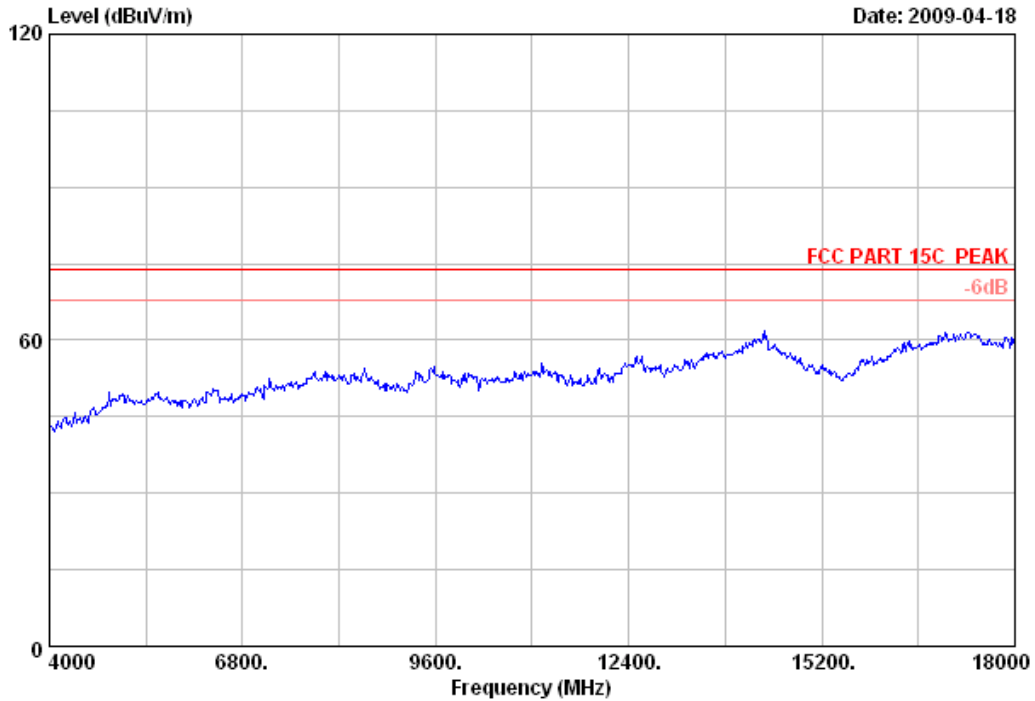
Remarks:

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



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Data: 55 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)

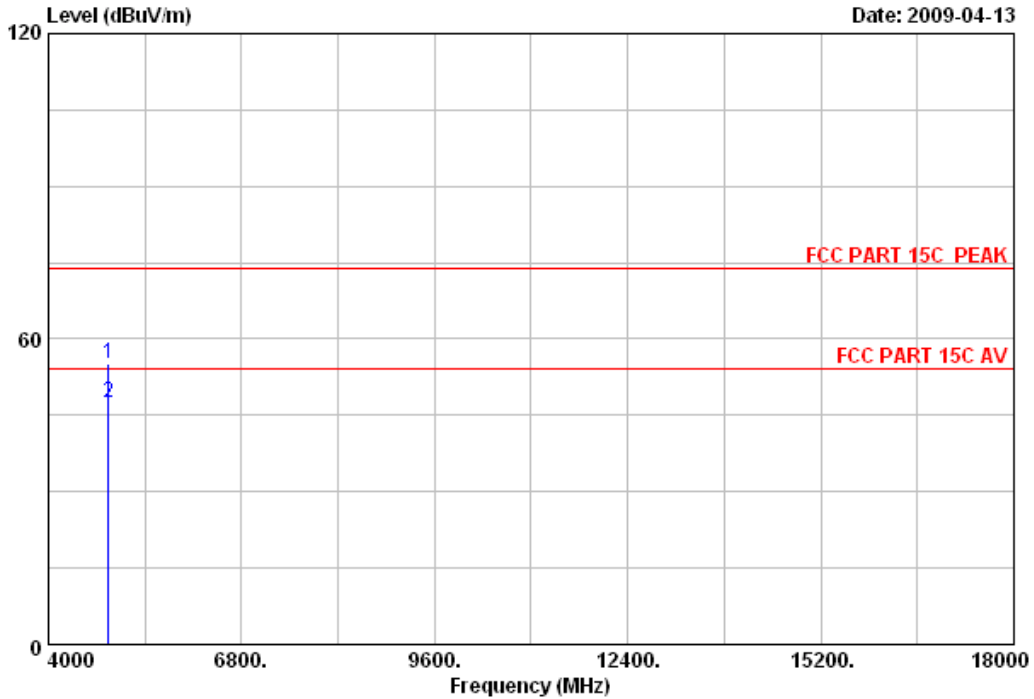


Site no.	: 3m Chamber	Data no.	: 55
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11b CH6 2437MHz		



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Data: 56 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 56  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH6 2437MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	10.56	34.58	44.35	55.11	74.00	18.89	Peak
2	4874.000	34.78	10.56	34.58	36.85	47.61	54.00	6.39	Average

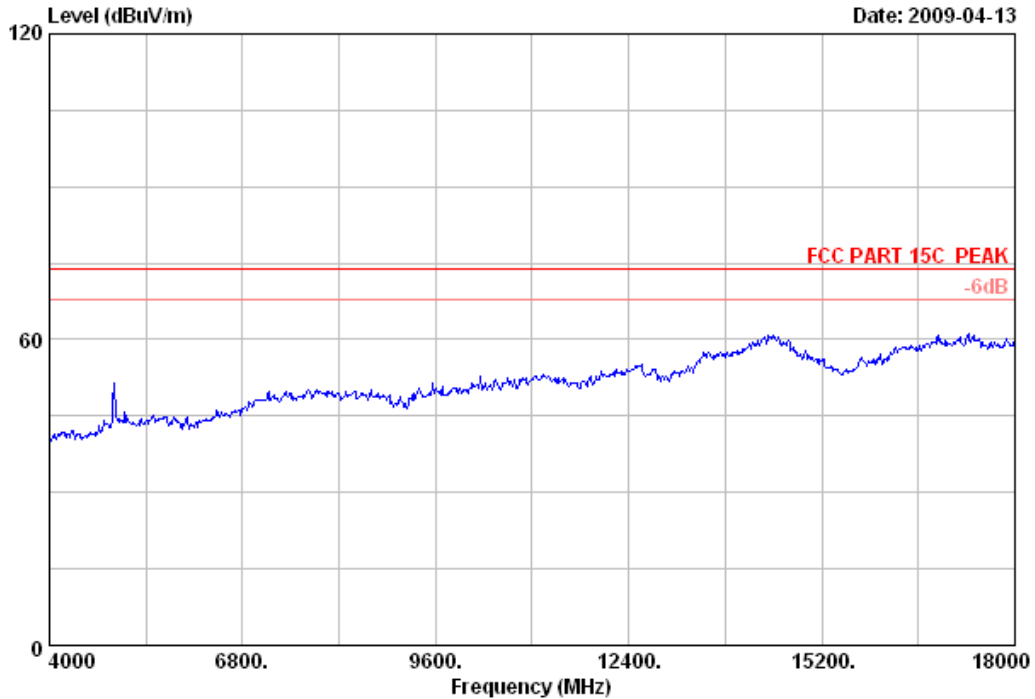
Remarks:

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



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Data: 57 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)

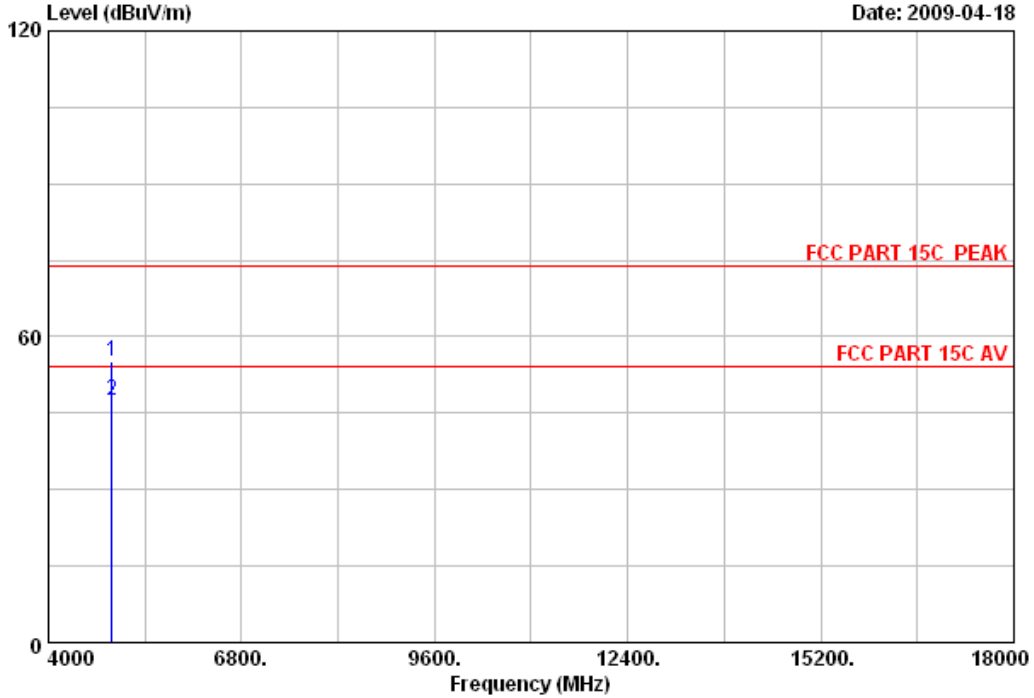


Site no.	: 3m Chamber	Data no.	: 57
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11b CH11 2462MHz		



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Data: 58 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 58  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH11 2462MHz

	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	10.58	34.57	43.94	55.04	74.00	18.96	Peak
2	4924.000	35.09	10.58	34.57	36.34	47.44	54.00	6.56	Average

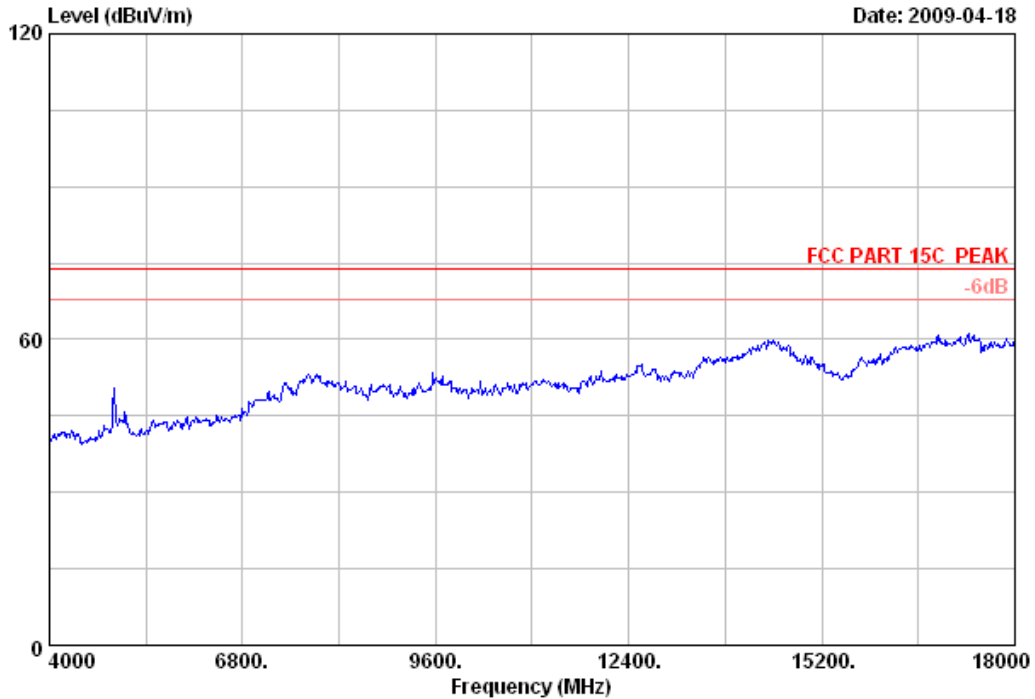
Remarks:

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



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Data: 59 File: E:\2009 report data\D'D-LINK\ACS9Q480.EM6 (220)

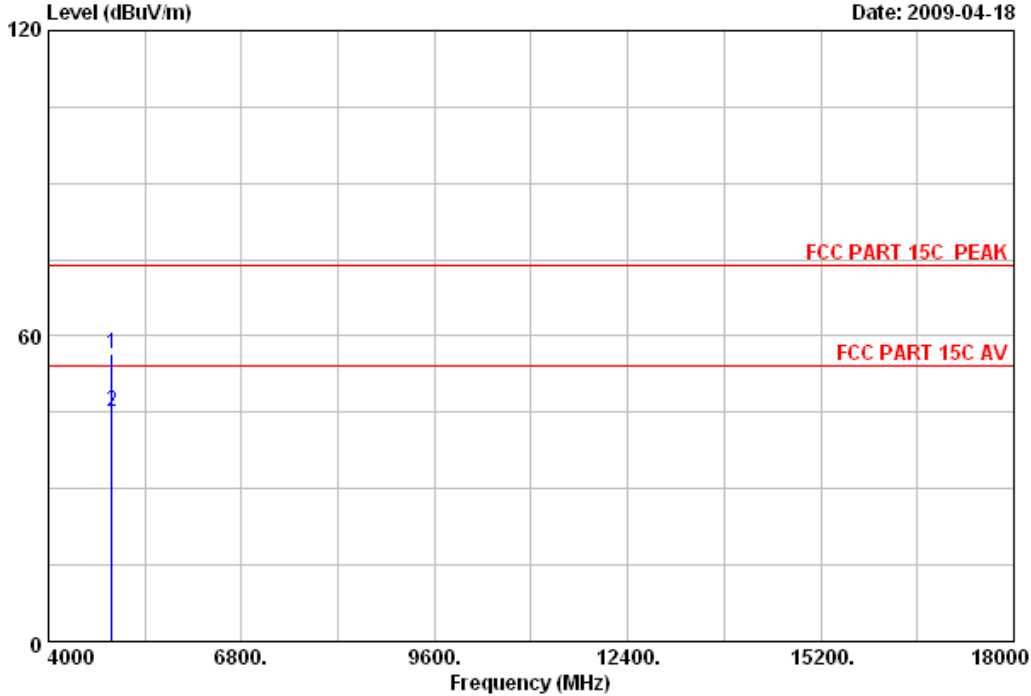


Site no.	: 3m Chamber	Data no.	: 59
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11b CH11 2462MHz		



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Data: 60 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 60  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : S Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH11 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.09	10.58	34.57	45.45	56.55	74.00	17.45	Peak
2	4924.000	35.09	10.58	34.57	33.97	45.07	54.00	8.93	Average

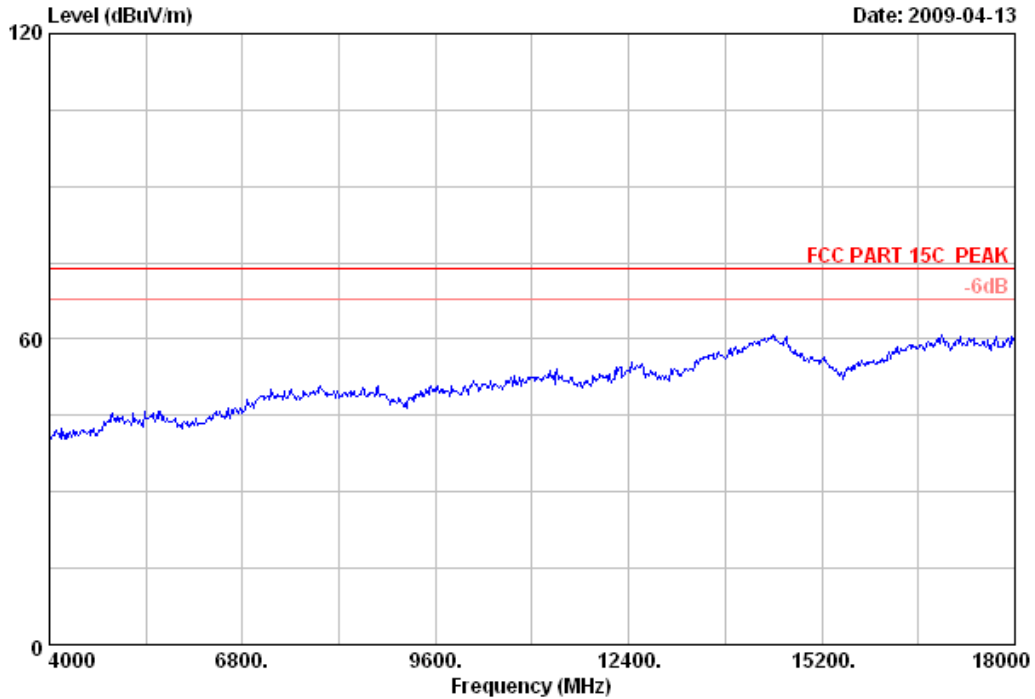
Remarks:

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



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Data: 61 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



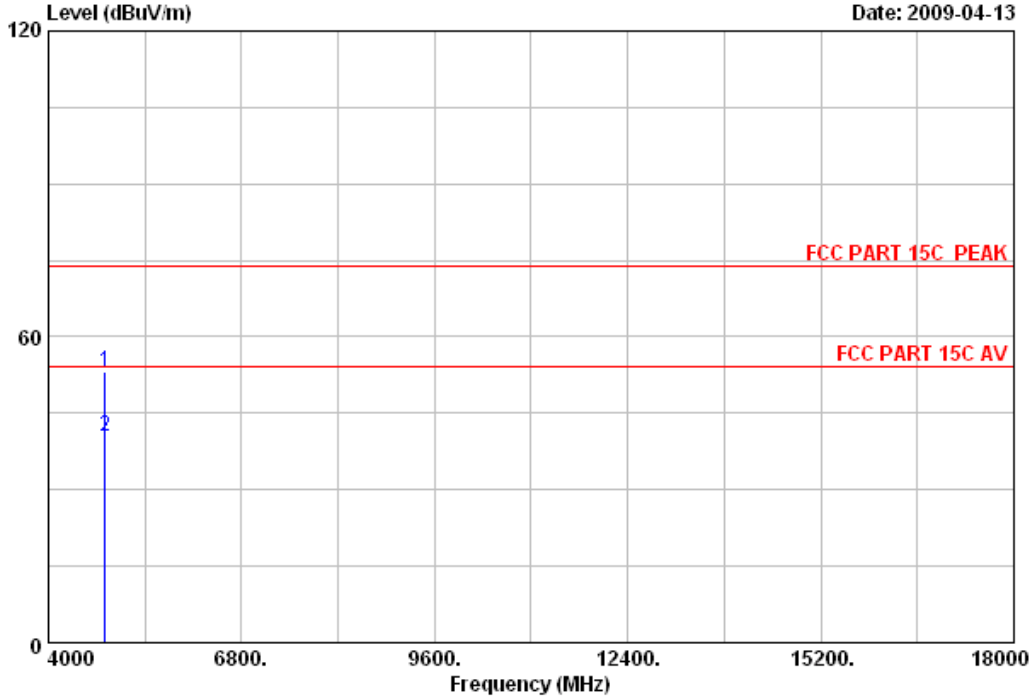
Site no.	: 3m Chamber	Data no.	: 61
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11g CH1 2412MHz		





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Data: 62 File: E:\2009 report data\D'D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 62  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH1 2412MHz

	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	10.55	34.59	42.88	53.31	74.00	20.69	Peak
2	4824.000	34.47	10.55	34.59	29.99	40.42	54.00	13.58	Average

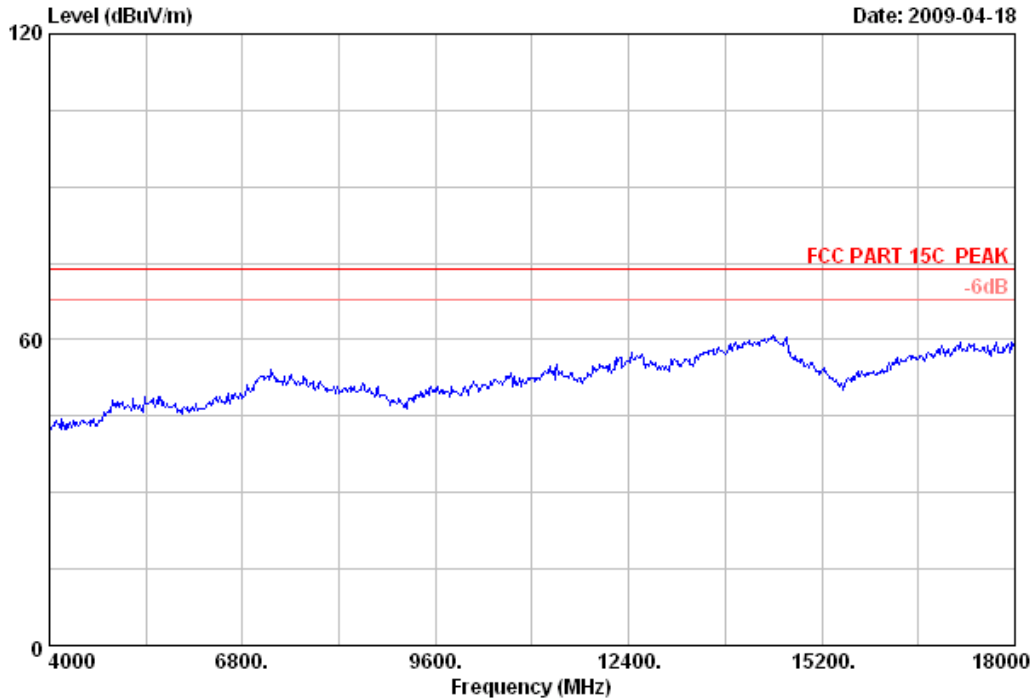
Remarks:

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



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Data: 63 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)

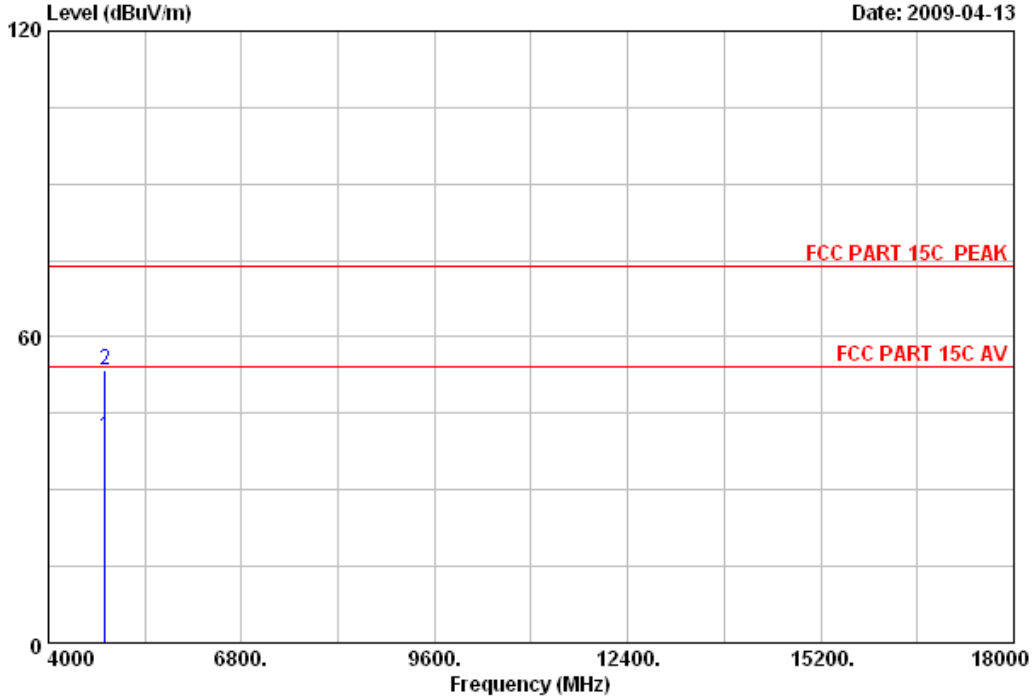


Site no.	: 3m Chamber	Data no.	: 63
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11g CH1 2412MHz		



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Data: 64 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 64  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH1 2412MHz

	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	10.55	34.59	29.97	40.40	54.00	13.60	Average
2	4824.000	34.47	10.55	34.59	43.16	53.59	74.00	20.41	Peak

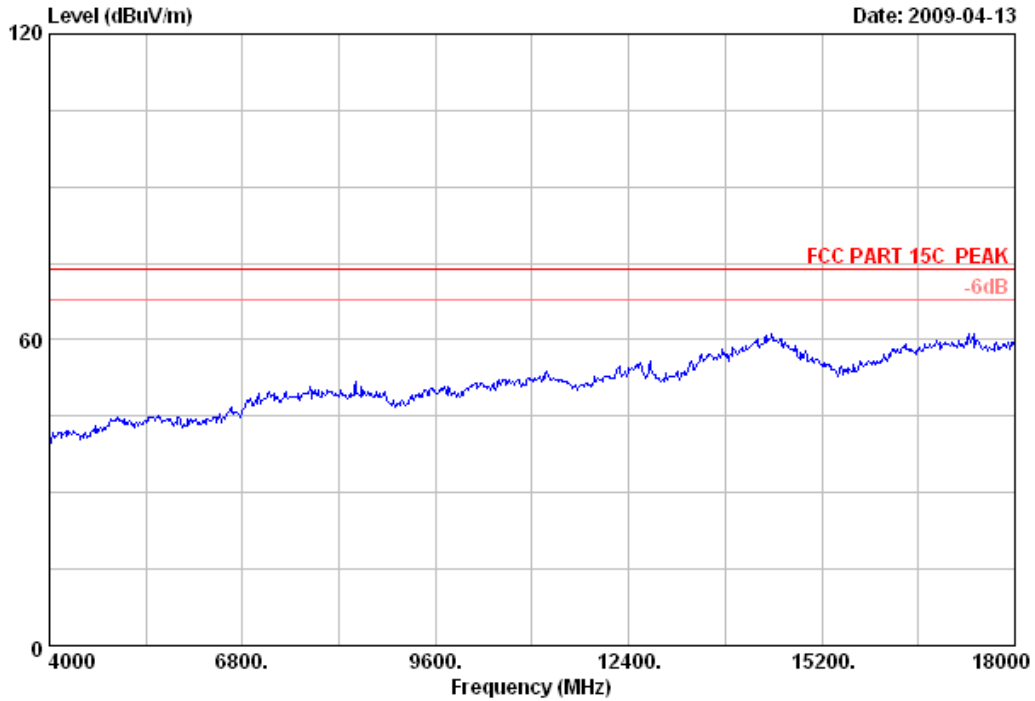
Remarks:

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



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Data: 65 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)

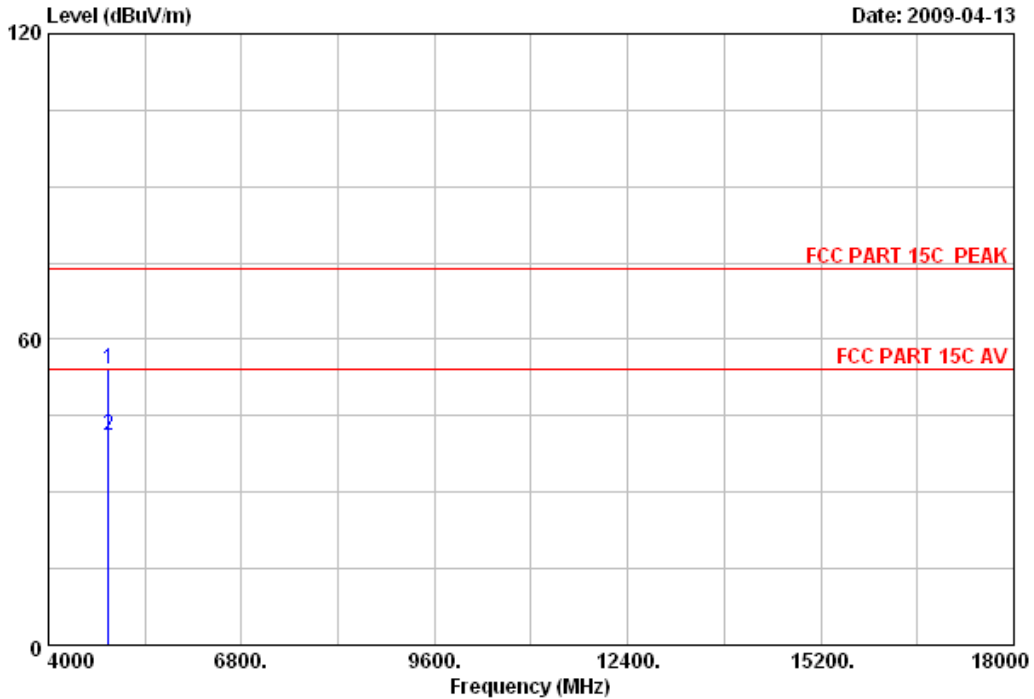


Site no.	: 3m Chamber	Data no.	: 65
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11g CH6 2437MHz		



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Data: 66 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 66  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH6 2437MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	10.56	34.58	43.38	54.14	74.00	19.86	Peak
2	4874.000	34.78	10.56	34.58	30.19	40.95	54.00	13.05	Average

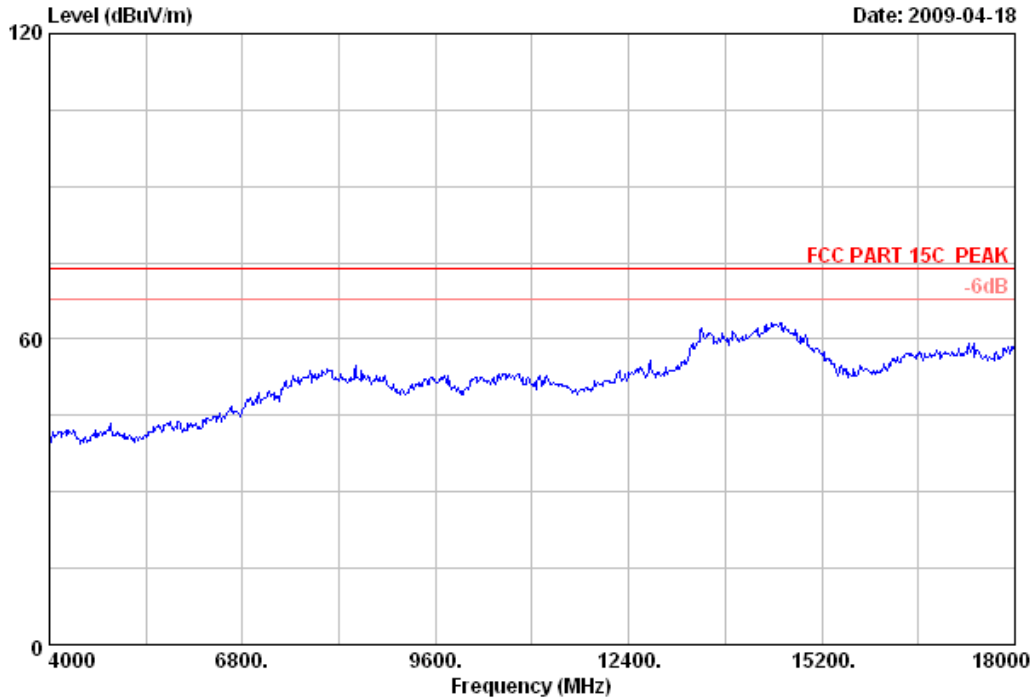
Remarks:

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



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Data: 67 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)

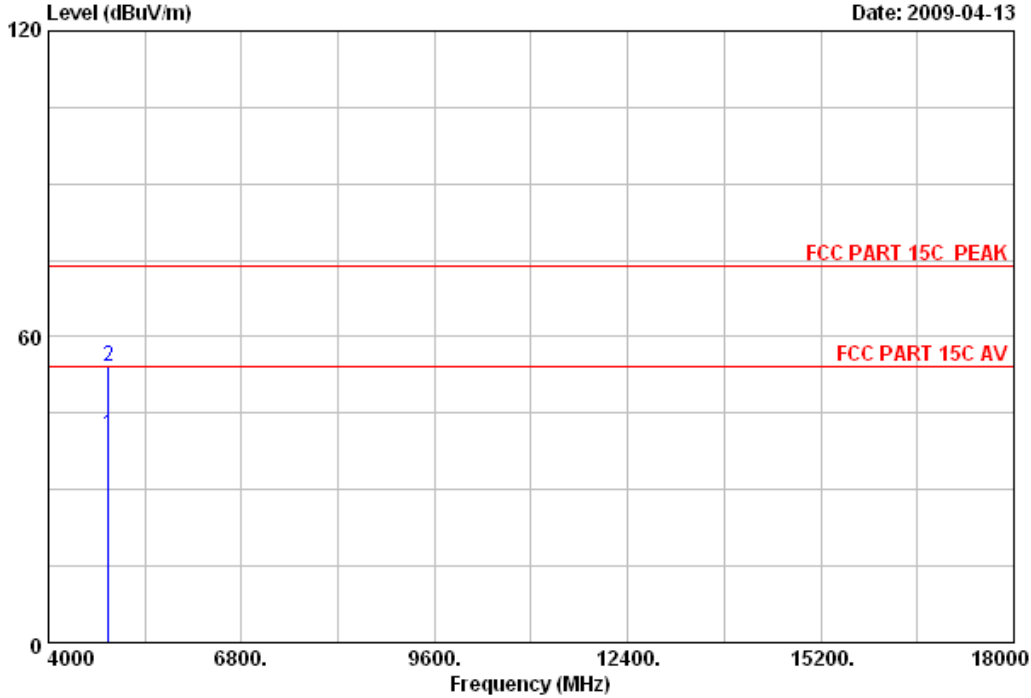


Site no.	: 3m Chamber	Data no.	: 67
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11g CH6 2437MHz		



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Data: 68 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 68  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH6 2437MHz

	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	10.56	34.58	30.12	40.88	54.00	13.12	Average
2	4874.000	34.78	10.56	34.58	43.46	54.22	74.00	19.78	Peak

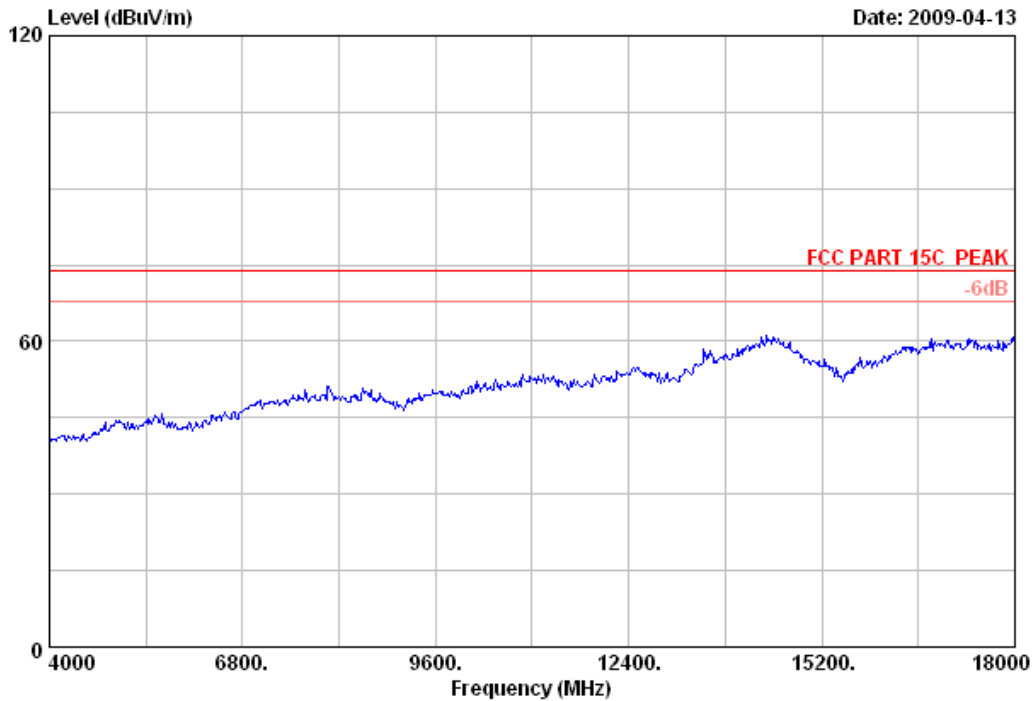
Remarks:

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



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Data: 69 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



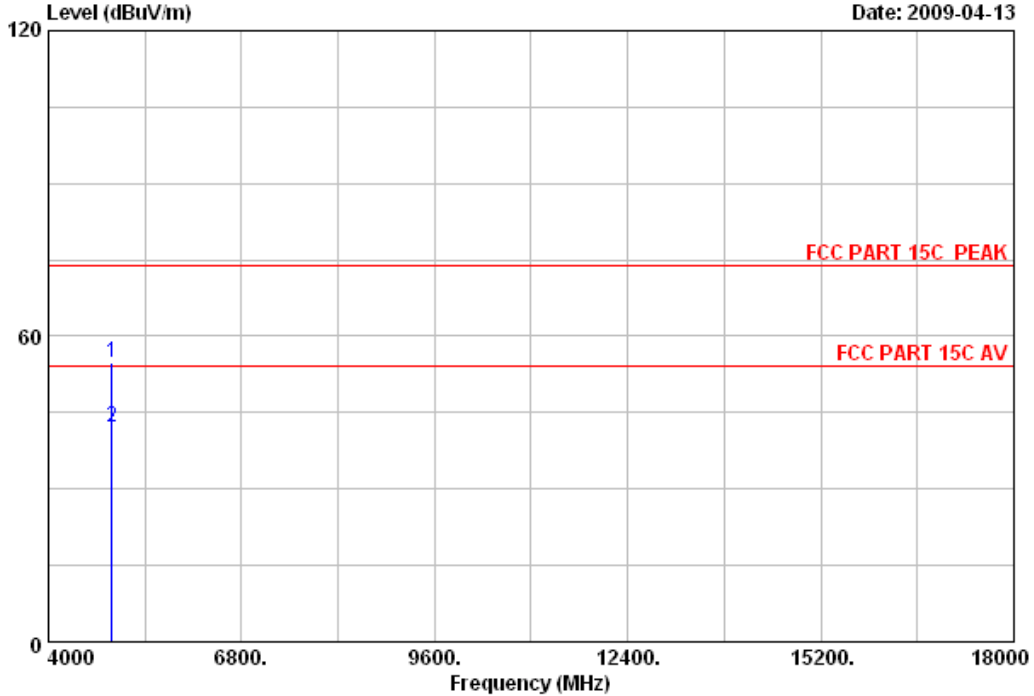
Site no.	: 3m Chamber	Data no.	: 69
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: S	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11g CH11 2462MHz		





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Data: 70 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 70  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH11 2462MHz

	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	10.58	34.57	43.57	54.67	74.00	19.33	Peak
2	4924.000	35.09	10.58	34.57	30.91	42.01	54.00	11.99	Average

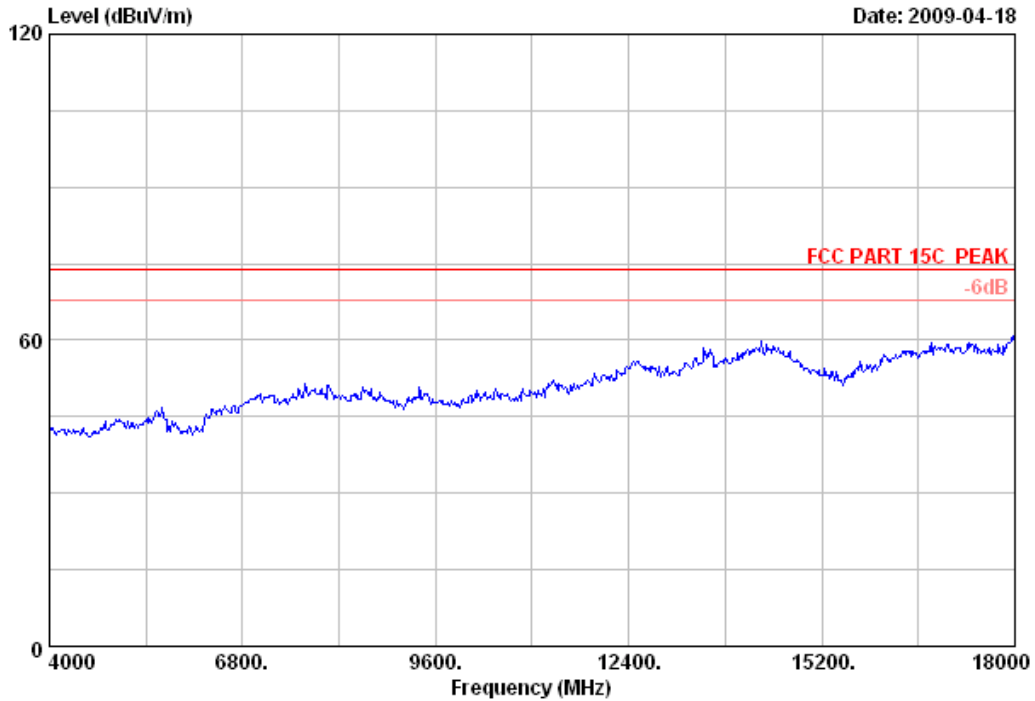
Remarks:

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



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Data: 71 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)

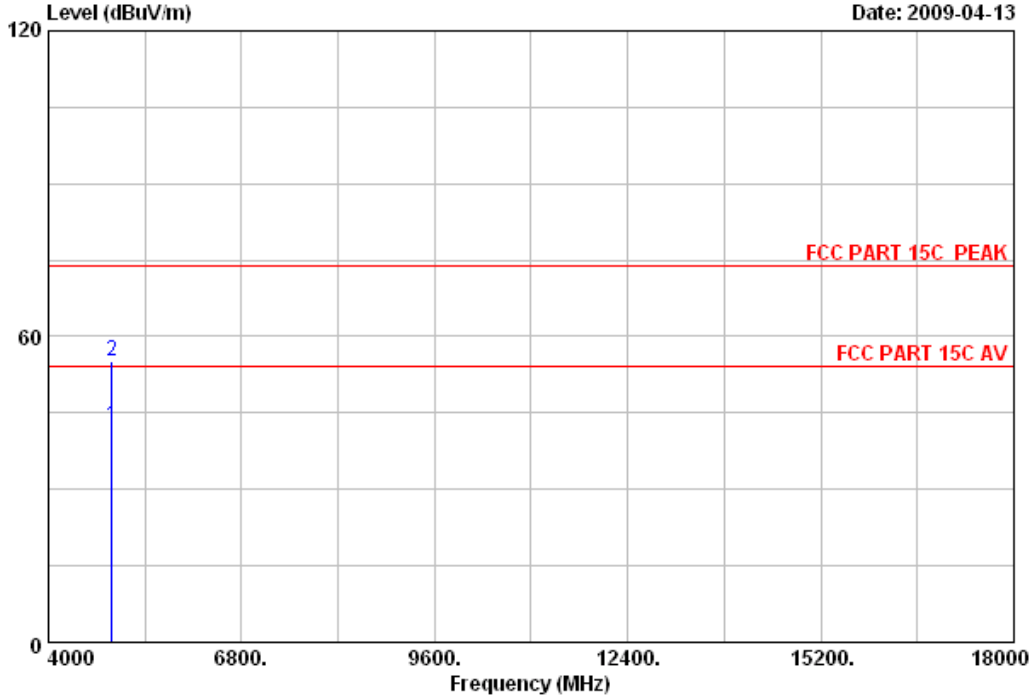


Site no.	: 3m Chamber	Data no.	: 71
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: S	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11g CH11 2462MHz		



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Data: 72 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 72  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH11 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.09	10.58	34.57	31.45	42.55	54.00	11.45	Average
2	4924.000	35.09	10.58	34.57	43.90	55.00	74.00	19.00	Peak

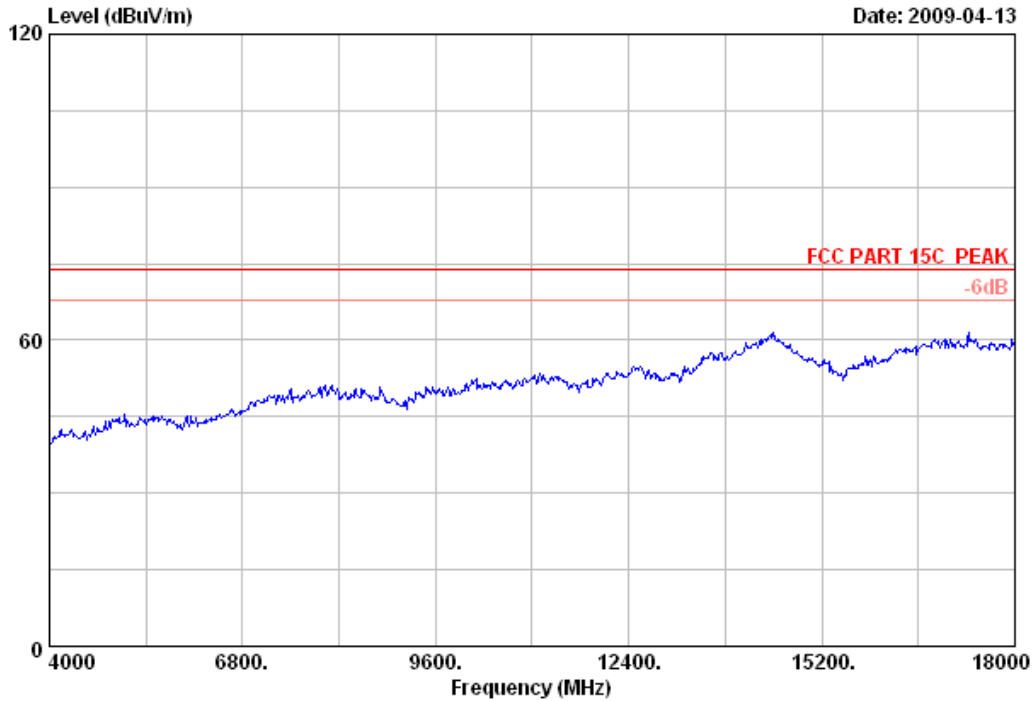
Remarks:

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



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Data: 73 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)

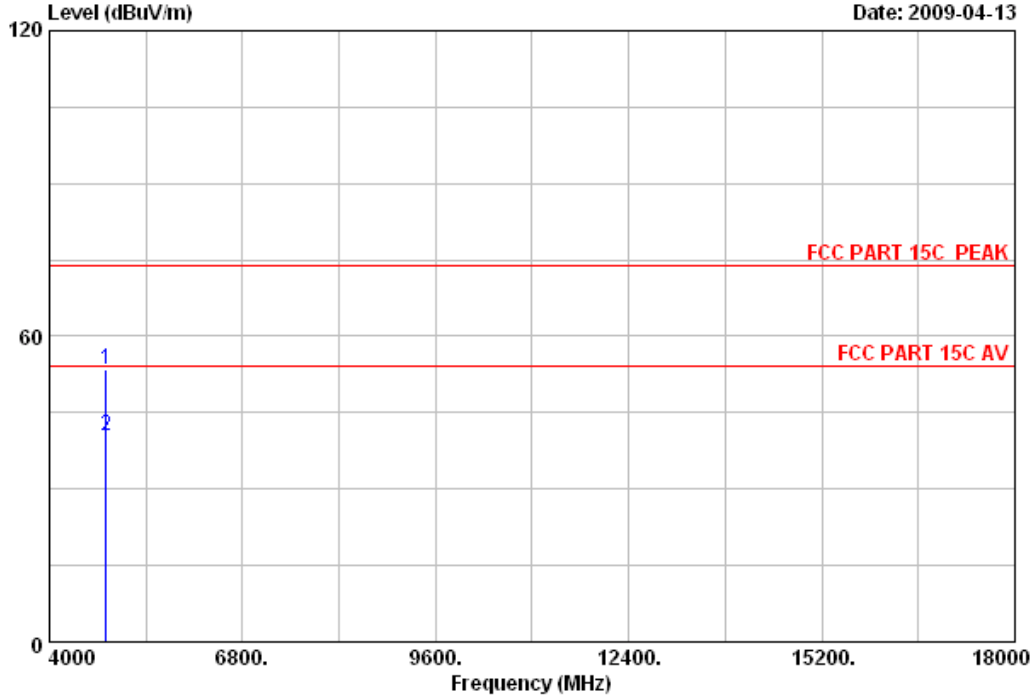


Site no.	: 3m Chamber	Data no.	: 73
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11nHT20 CH1 2412MHz		



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Data: 74 File: E:\2009 report data\D'D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 74  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH1 2412MHz

	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	10.55	34.59	43.22	53.65	74.00	20.35	Peak
2	4824.000	34.47	10.55	34.59	29.90	40.33	54.00	13.67	Average

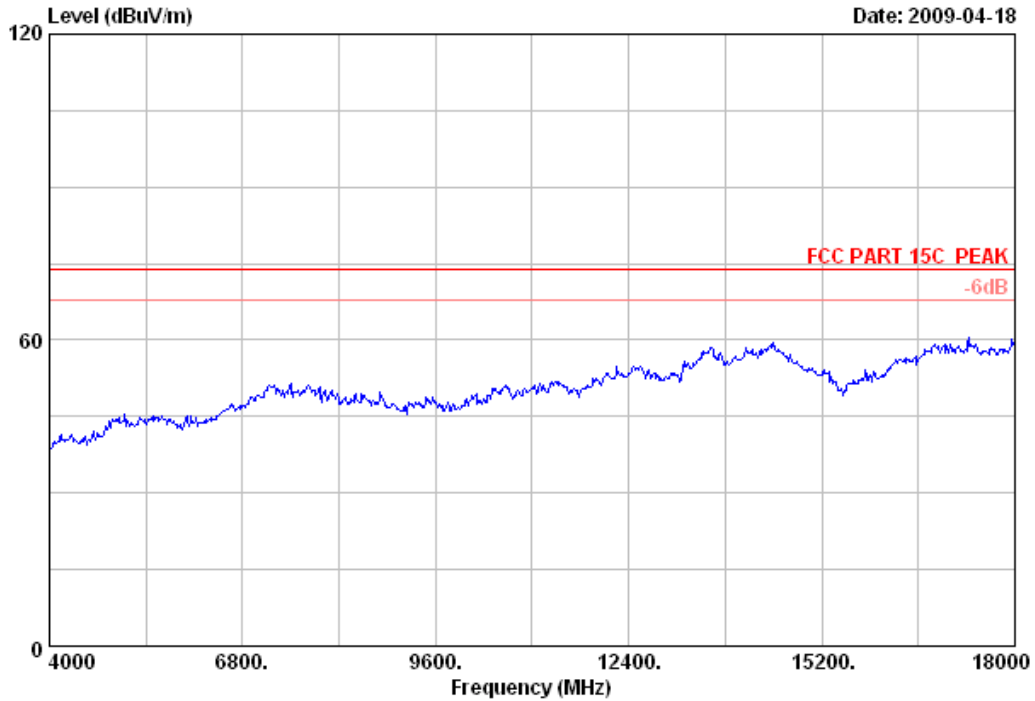
Remarks:

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



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Data: 75 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)

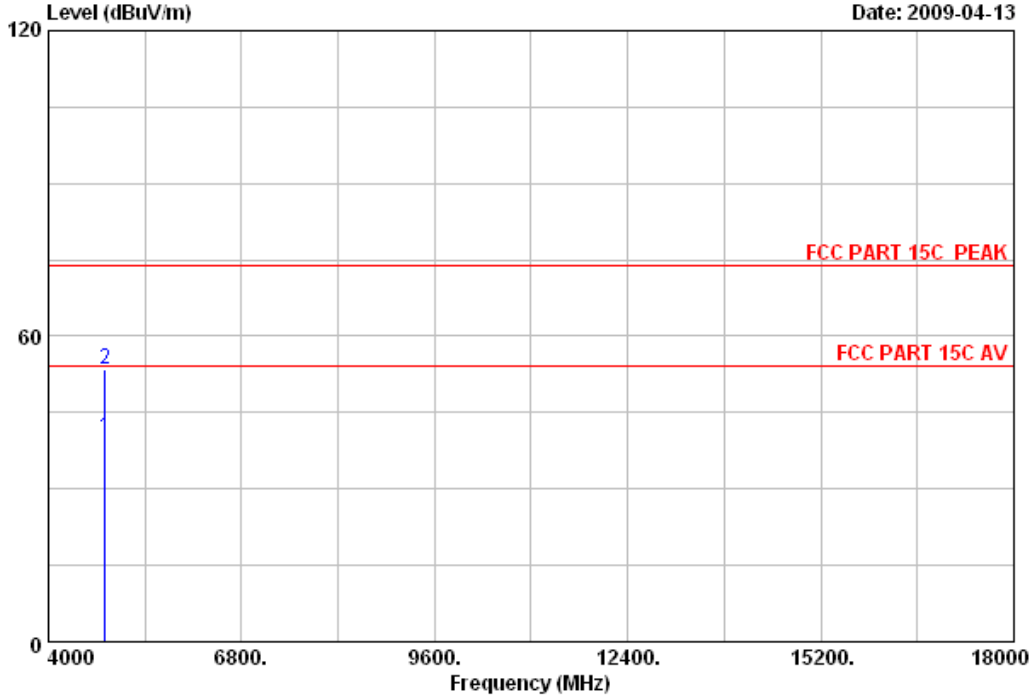


Site no.	: 3m Chamber	Data no.	: 75
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11nHT20 CH1 2412MHz		



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Data: 76 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 76  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH1 2412MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.47	10.55	34.59	29.84	40.27	54.00	13.73	Average
2	4824.000	34.47	10.55	34.59	42.89	53.32	74.00	20.68	Peak

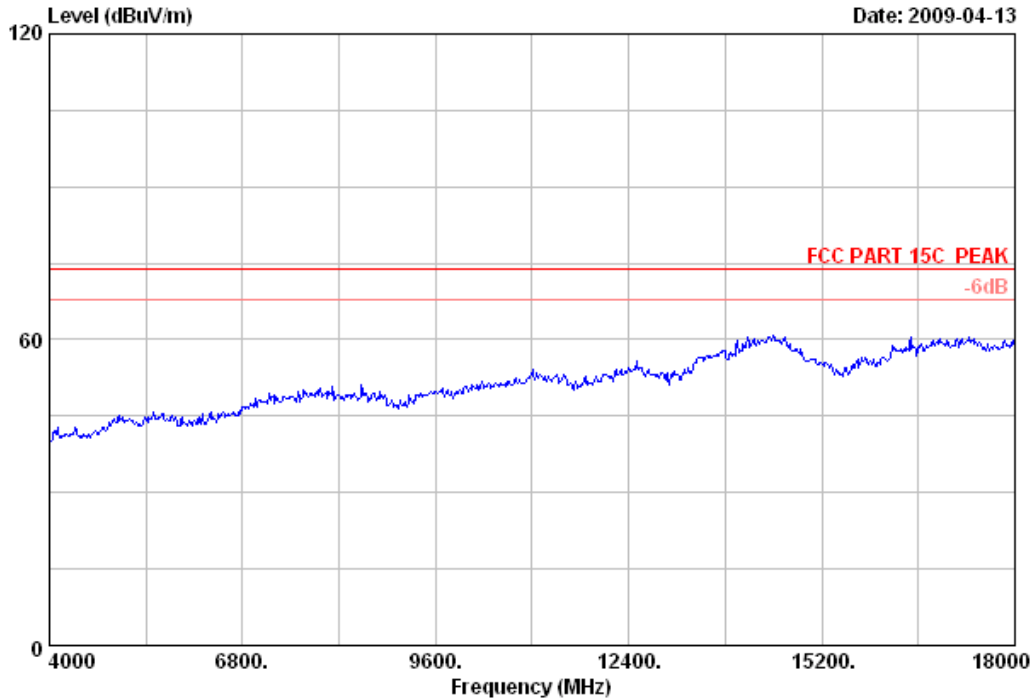
Remarks:

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



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Data: 77 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



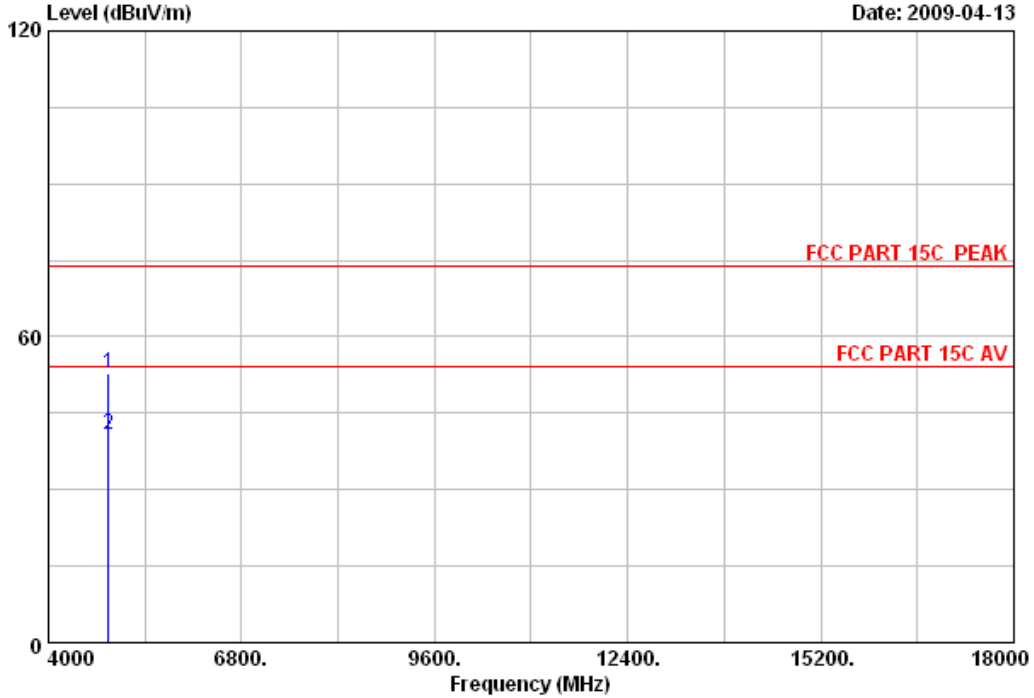
Site no.	: 3m Chamber	Data no.	: 77
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11nHT20 CH6 2437MHz		





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Data: 78 File: E:\2009 report data\D'D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 78  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH6 2437MHz

	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	10.56	34.58	42.19	52.95	74.00	21.05	Peak
2	4874.000	34.78	10.56	34.58	30.05	40.81	54.00	13.19	Average

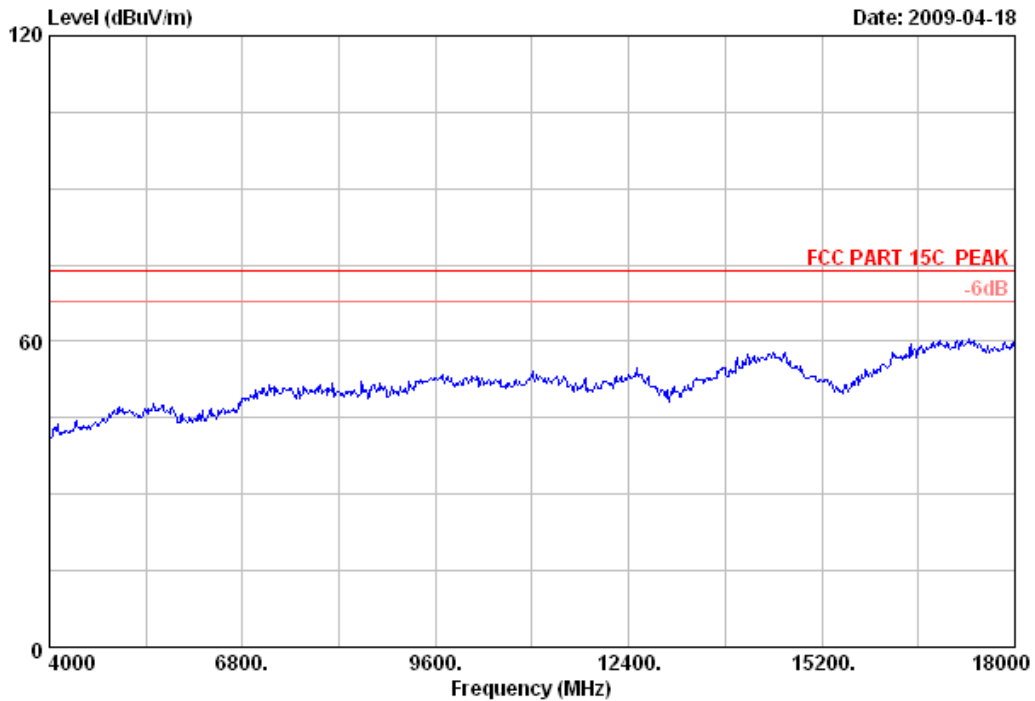
Remarks:

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



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Data: 79 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)

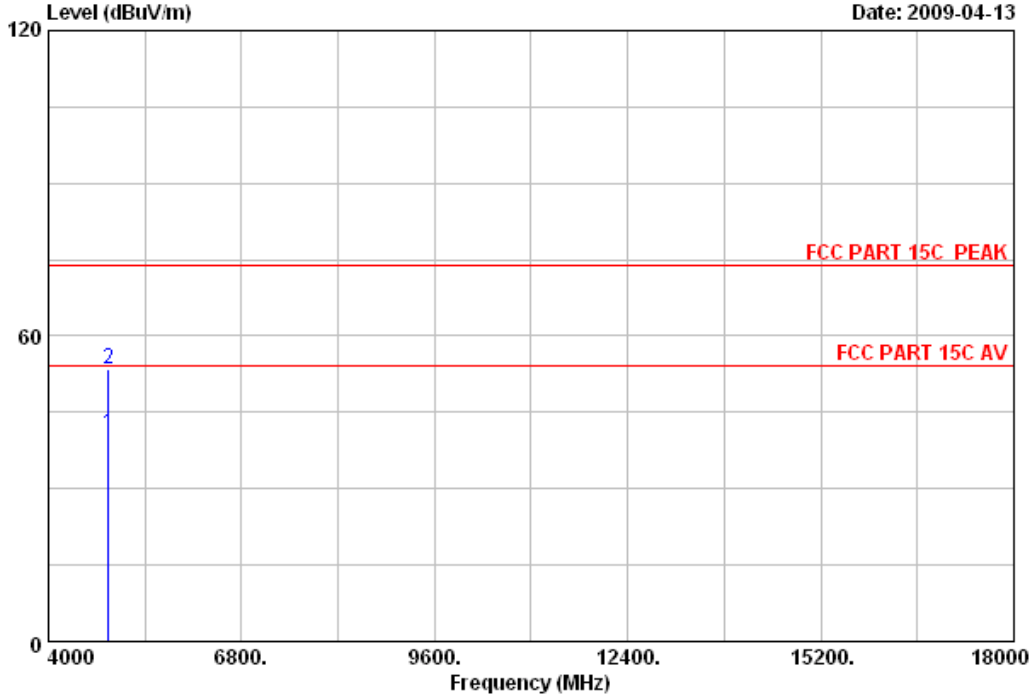


Site no.	: 3m Chamber	Data no.	: 79
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11nHT20 CH6 2437MHz		



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Data: 80 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 80  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH6 2437MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	10.56	34.58	30.10	40.86	54.00	13.14	Average
2	4874.000	34.78	10.56	34.58	42.85	53.61	74.00	20.39	Peak

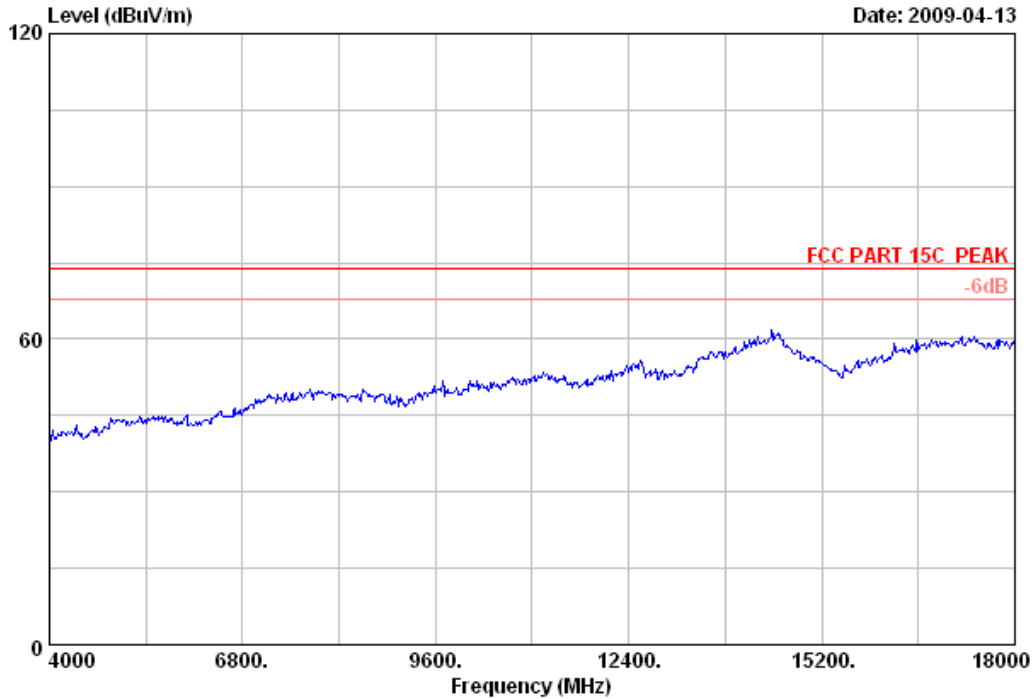
Remarks:

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



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Data: 81 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)

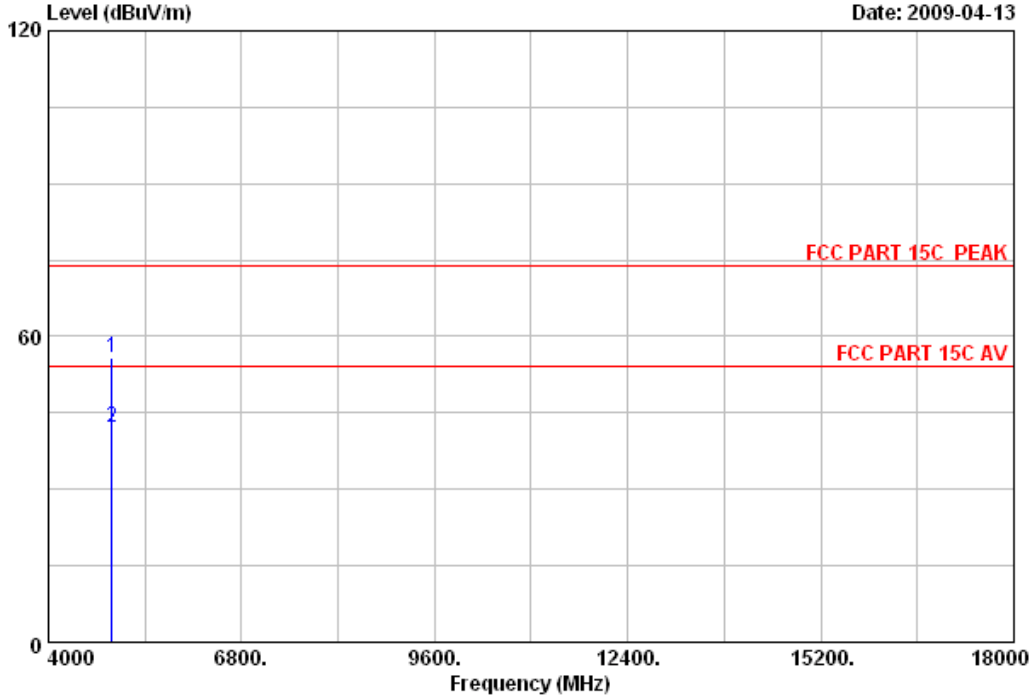


Site no.	: 3m Chamber	Data no.	: 81
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11nHT20 CH11 2462MHz		



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Data: 82 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 82  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH11 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.09	10.58	34.57	44.84	55.94	74.00	18.06	Peak
2	4924.000	35.09	10.58	34.57	31.16	42.26	54.00	11.74	Average

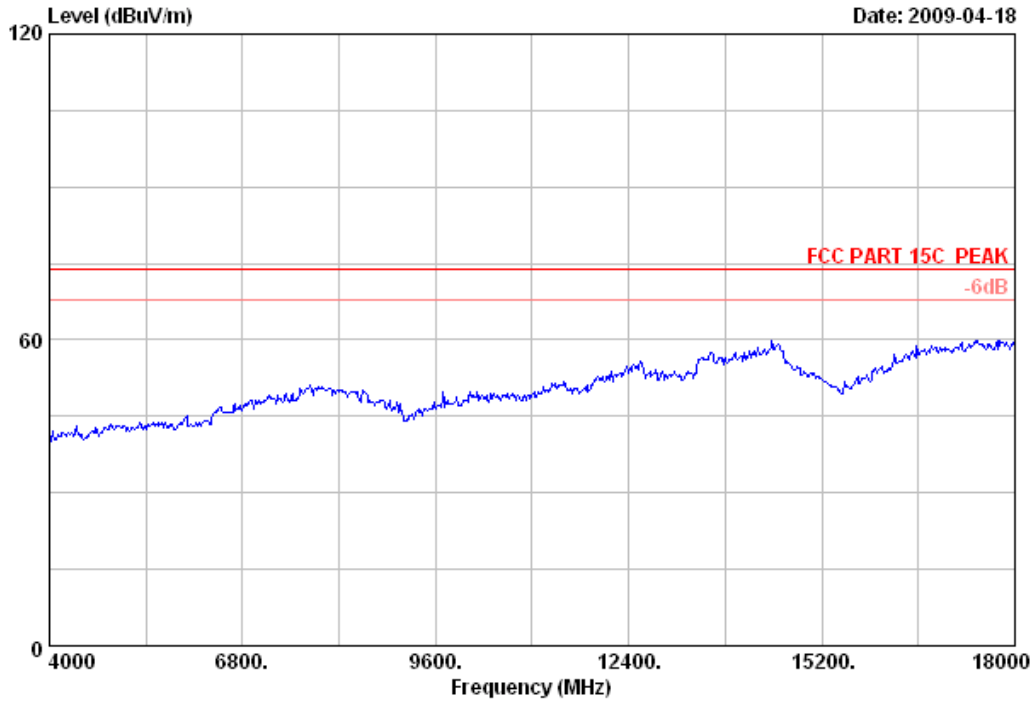
Remarks:

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



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Data: 83 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)

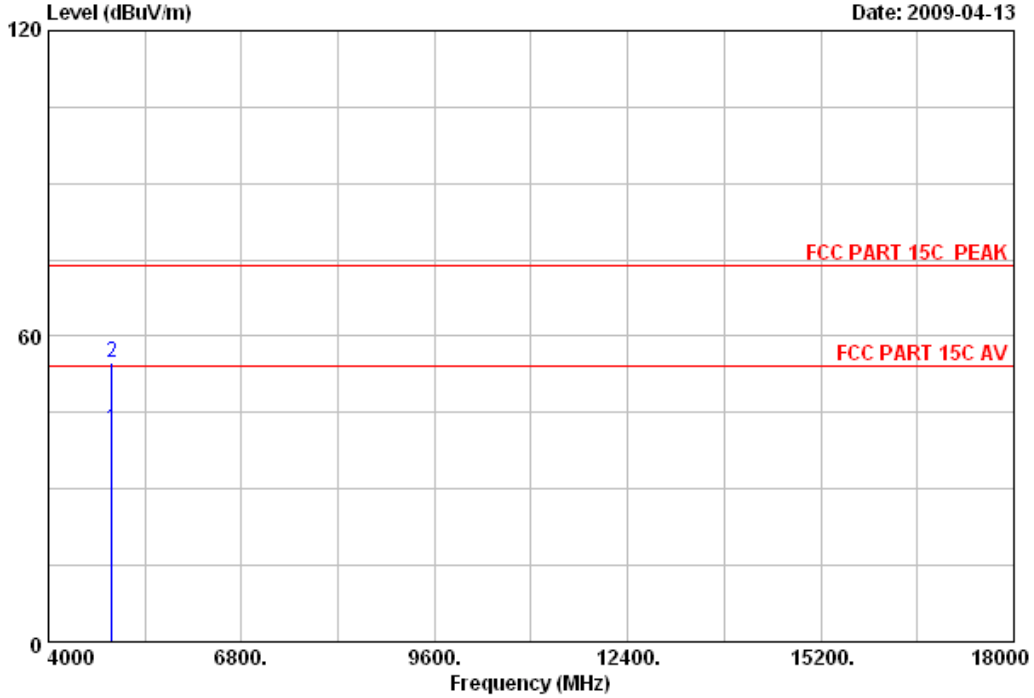


Site no.	: 3m Chamber	Data no.	: 83
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11nHT20 CH11 2462MHz		



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Data: 84 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 84  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH11 2462MHz

	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	10.58	34.57	30.64	41.74	54.00	12.26	Average
2	4924.000	35.09	10.58	34.57	43.56	54.66	74.00	19.34	Peak

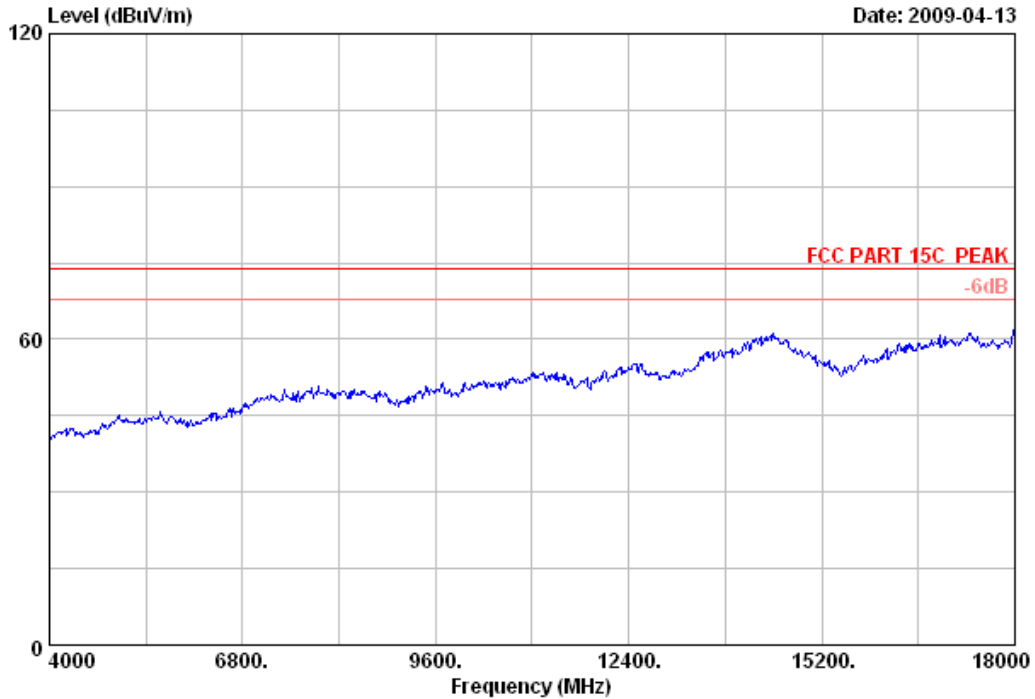
Remarks:

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



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Data: 85 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



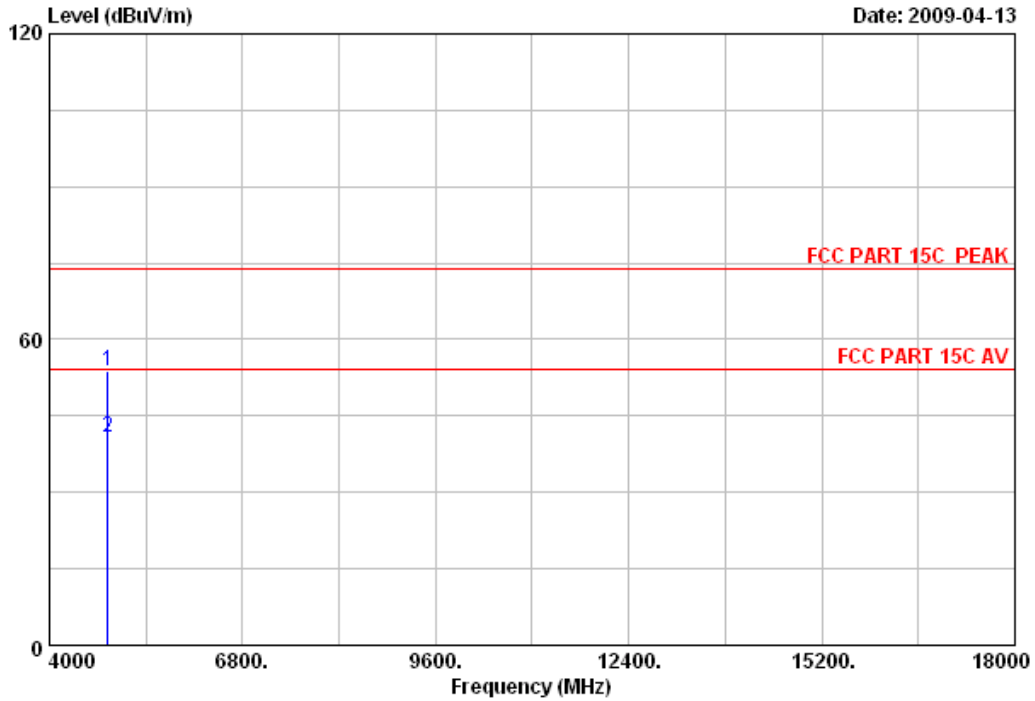
Site no.	: 3m Chamber	Data no.	: 85
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11nHT40 CH1 2422MHz		





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Data: 86 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 86  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH1 2422MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4844.000	34.57	10.56	34.59	43.26	53.80	74.00	20.20	Peak
2	4844.000	34.57	10.56	34.59	30.24	40.78	54.00	13.22	Average

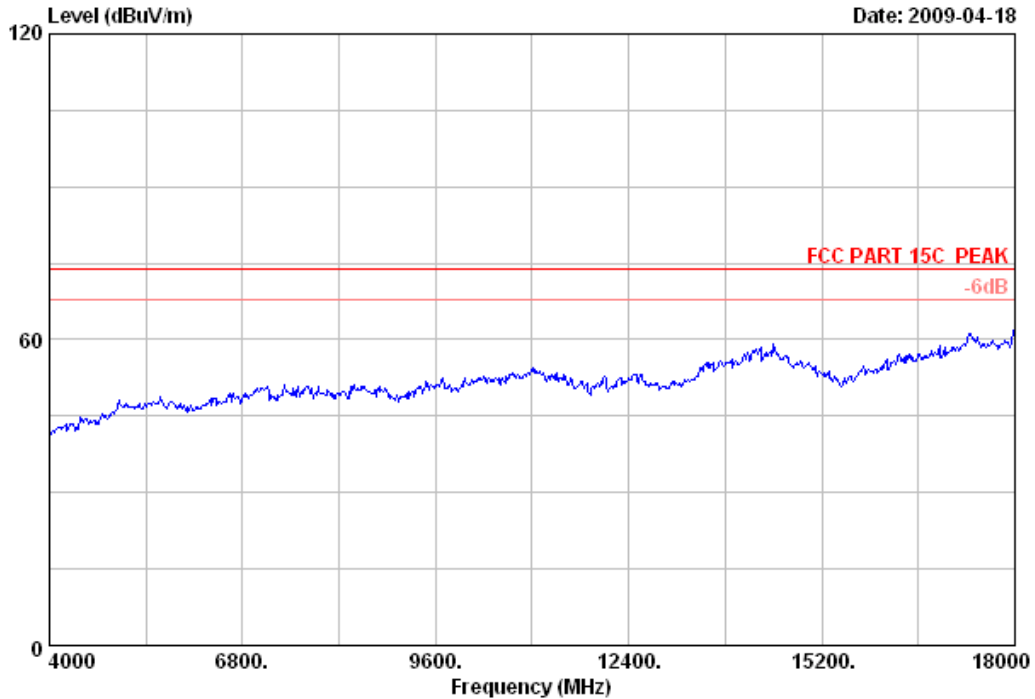
Remarks:

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



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Data: 87 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)

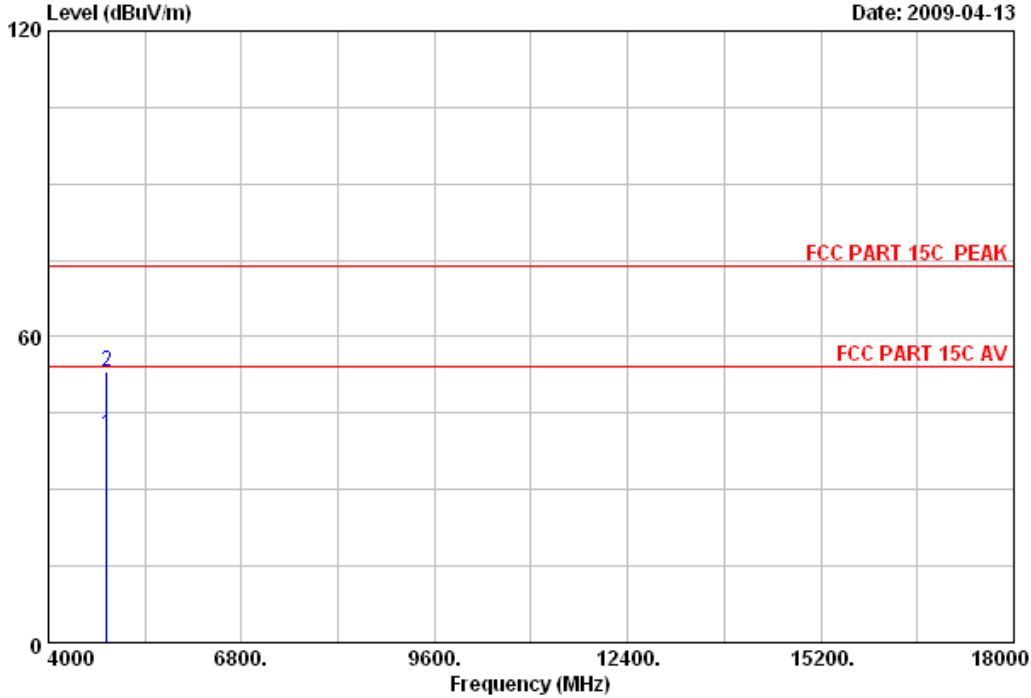


Site no.	: 3m Chamber	Data no.	: 87
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11nHT40 CH1 2422MHz		



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Data: 88 File: E:\2009 report data\D'D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 88  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH1 2422MHz

	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	10.56	34.59	30.10	40.64	54.00	13.36	Average
2	4844.000	34.57	10.56	34.59	42.61	53.15	74.00	20.85	Peak

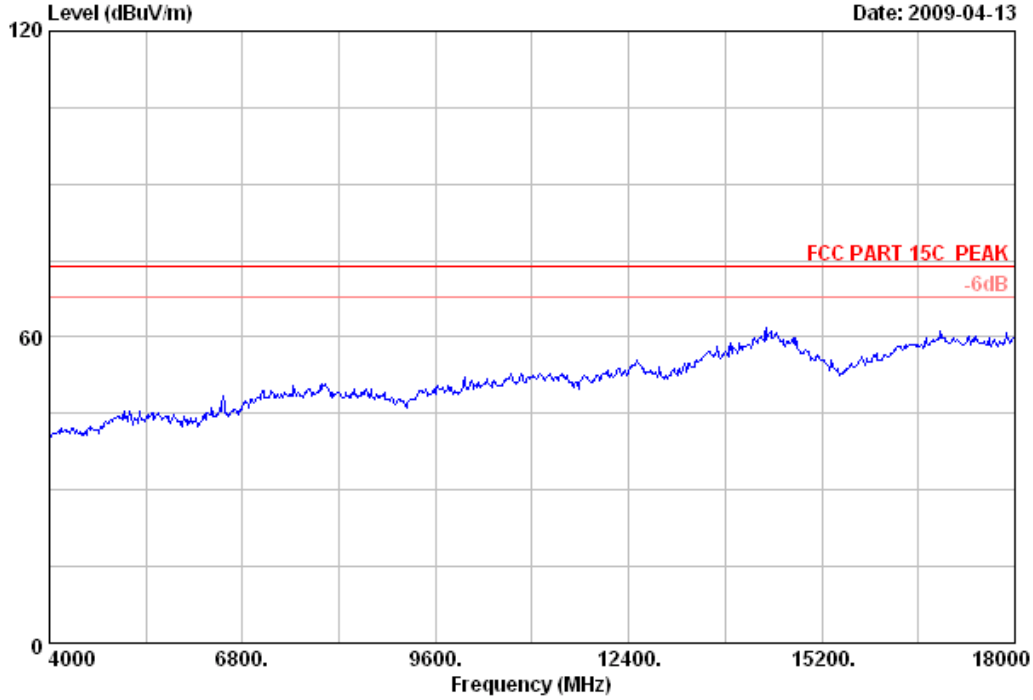
Remarks:

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



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Data: 89 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)

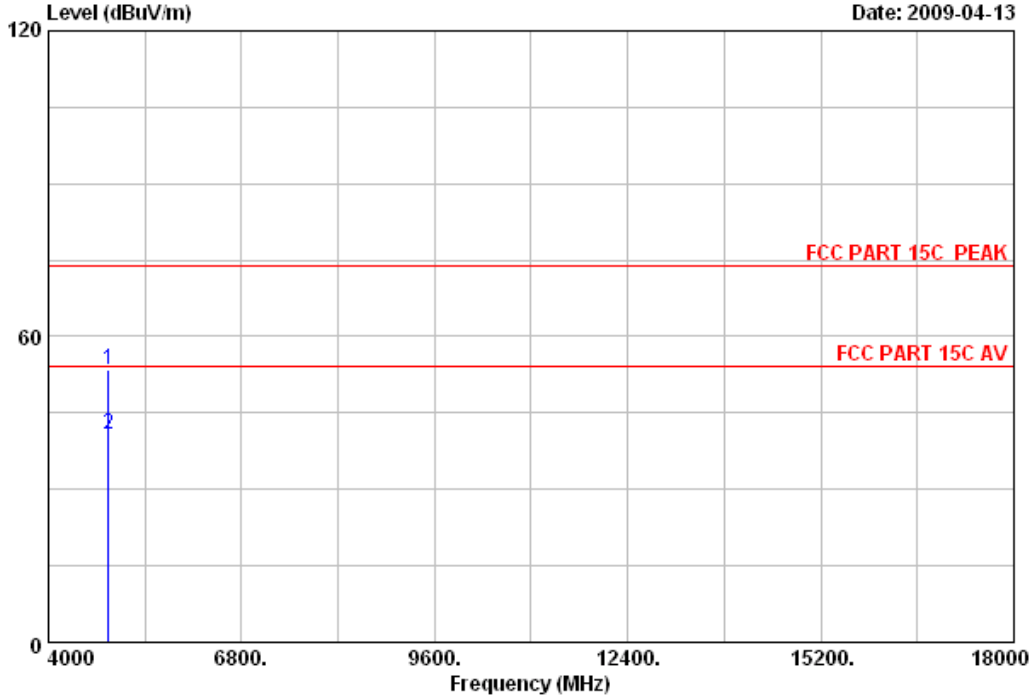


Site no.	: 3m Chamber	Data no.	: 89
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11nHT40 CH4 2437MHz		



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Data: 90 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 90  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH4 2437MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	10.56	34.58	42.85	53.61	74.00	20.39	Peak
2	4874.000	34.78	10.56	34.58	30.03	40.79	54.00	13.21	Average

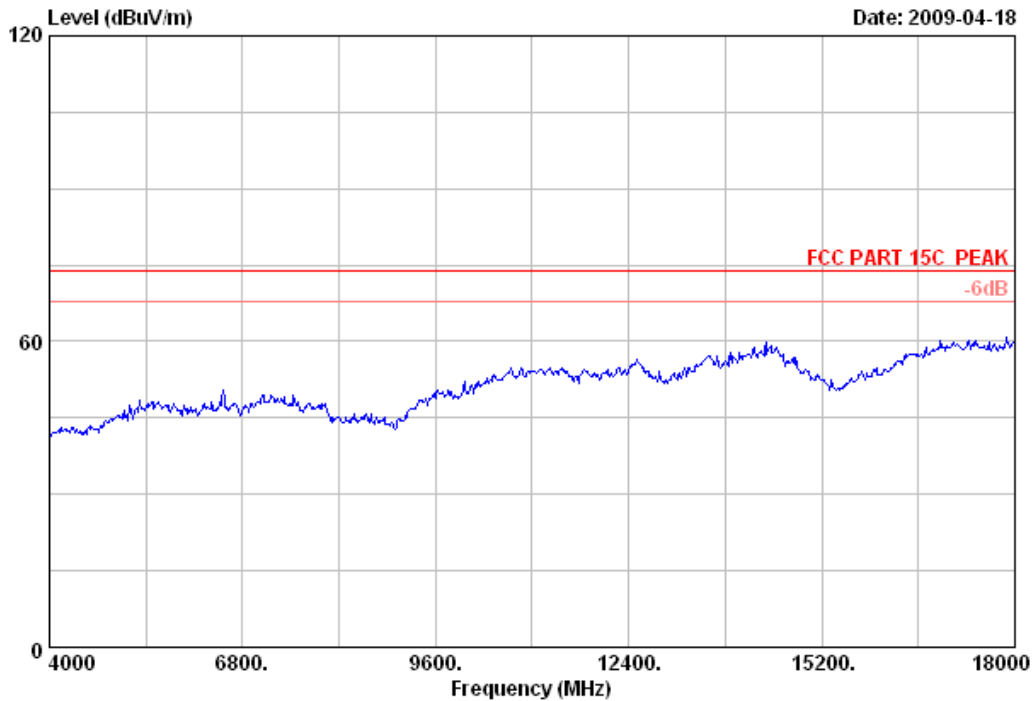
Remarks:

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



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Data: 91 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)

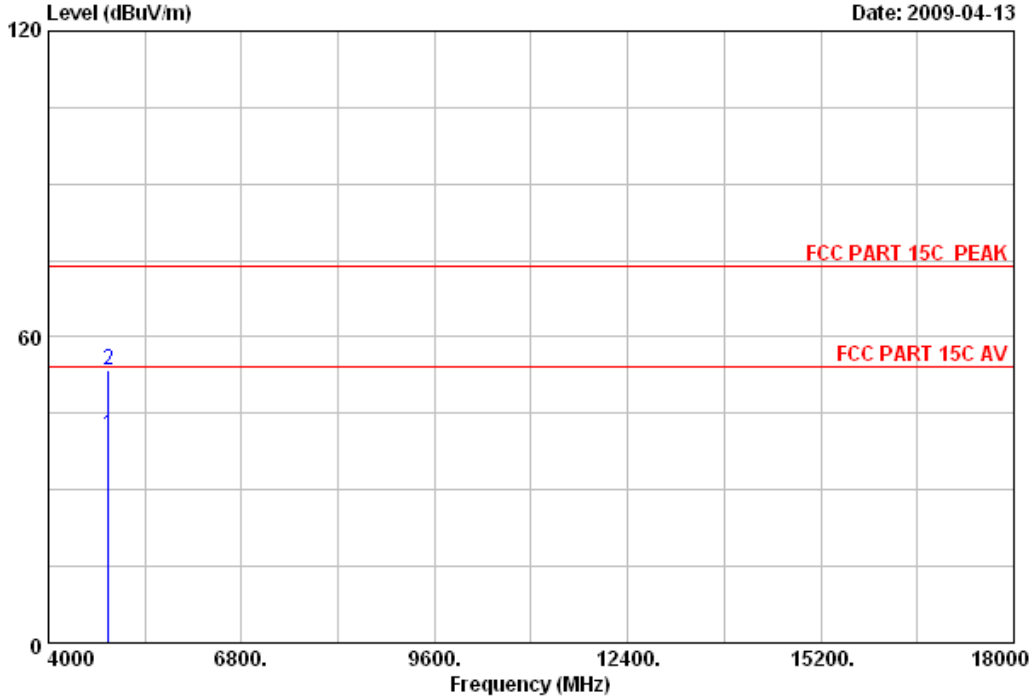


Site no.	: 3m Chamber	Data no.	: 91
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11nHT40 CH4 2437MHz		



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Data: 92 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 92  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH4 2437MHz

	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	10.56	34.58	29.96	40.72	54.00	13.28	Average
2	4874.000	34.78	10.56	34.58	42.78	53.54	74.00	20.46	Peak

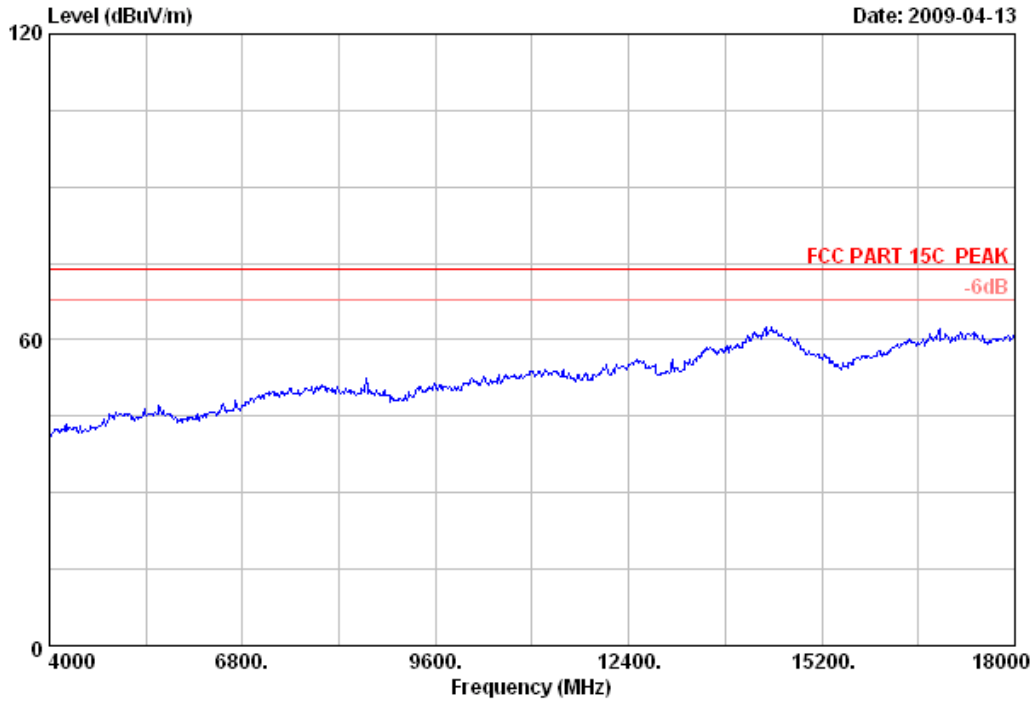
Remarks:

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



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Data: 93 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



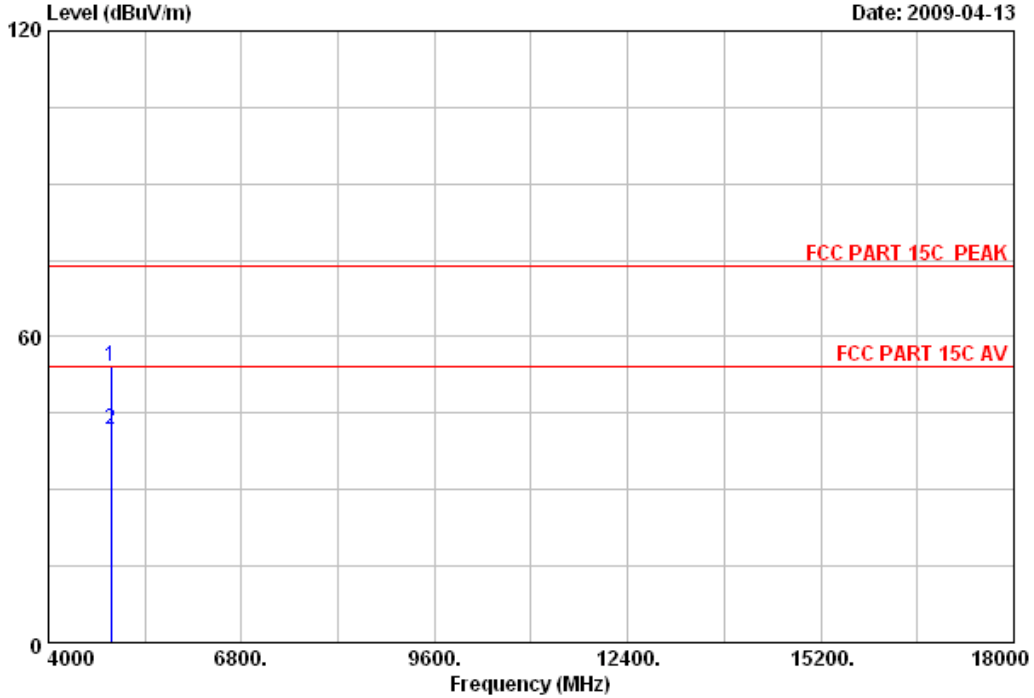
Site no.	: 3m Chamber	Data no.	: 93
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11nHT40 CH7 2452MHz		





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Data: 94 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 94  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH7 2452MHz

	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	10.58	34.58	43.22	54.20	74.00	19.80	Peak
2	4904.000	34.98	10.58	34.58	30.83	41.81	54.00	12.19	Average

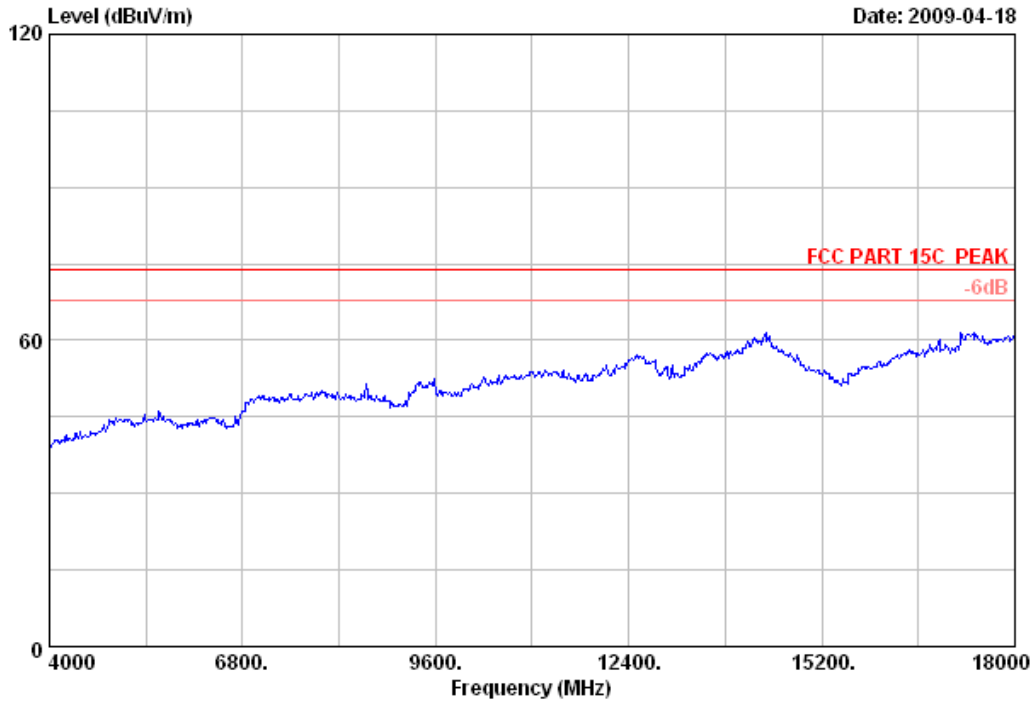
Remarks:

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



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Data: 95 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)

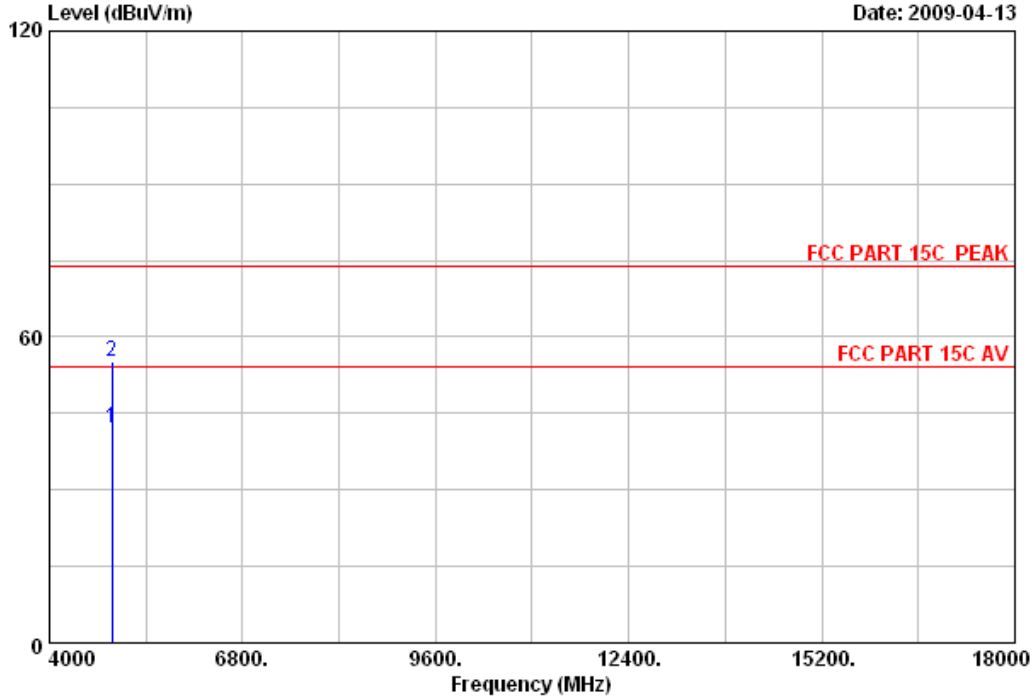


Site no.	: 3m Chamber	Data no.	: 95
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul
EUT	: Wireless G USB Adapter M/N:DWA-110		
Power Rating	: DC 5V From PC input AC 120V/60Hz		
Test mode	: 11nHT40 CH7 2452MHz		



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Data: 96 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 96  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH7 2452MHz

	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	10.58	34.58	31.03	42.01	54.00	11.99	Average
2	4904.000	34.98	10.58	34.58	44.27	55.25	74.00	18.75	Peak

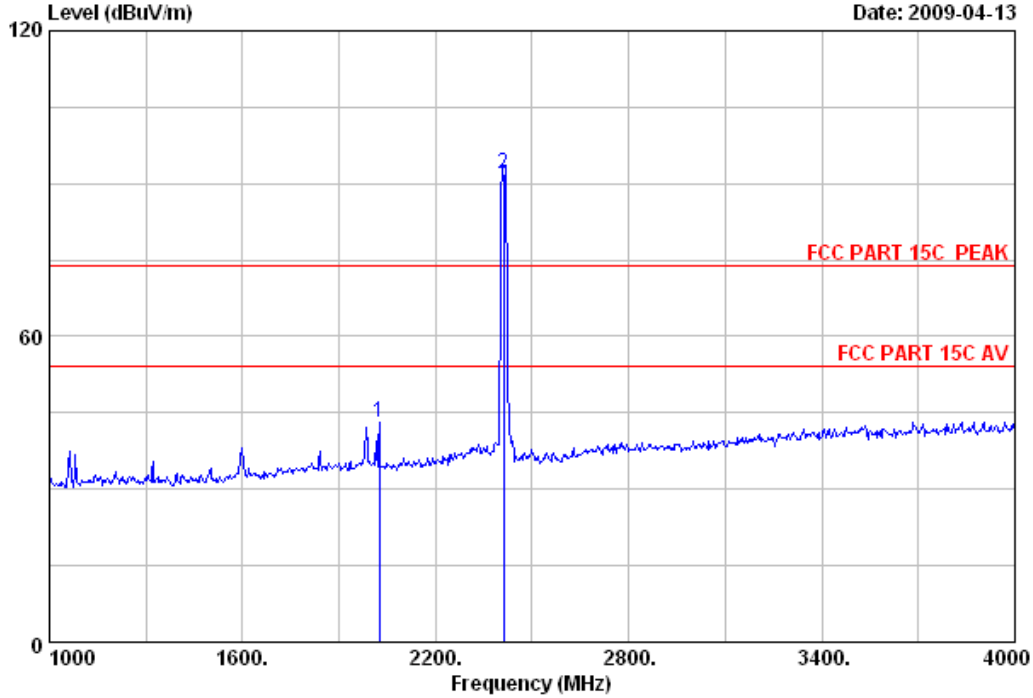
Remarks:

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



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Data: 97 File: E:\2009 report data\D'D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 97  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH1 2412MHz

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	Factor	Loss	Factor	Reading	Level	(dBuV/m)	(dB)	
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2026.000	27.92	6.23	35.19	44.33	43.29	74.00	30.71	Peak
2	2412.000	28.48	6.73	35.12	91.90	91.99	74.00	-17.99	Peak

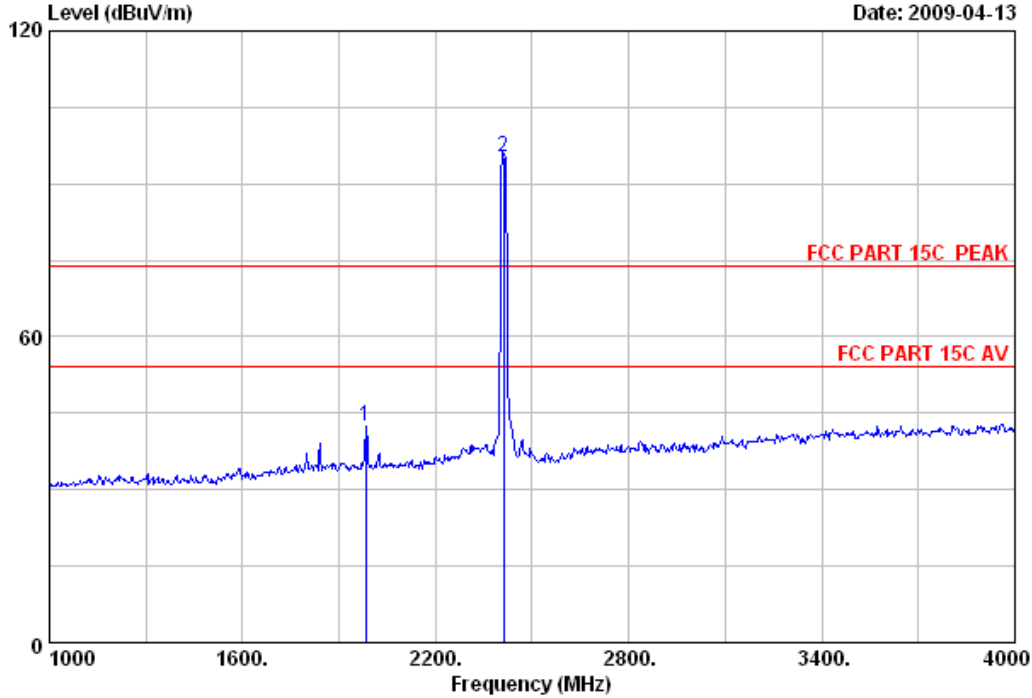
Remarks:

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



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Data: 98 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 98  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH1 2412MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1984.000	27.83	6.16	35.20	43.55	42.34	74.00	31.66	Peak
2	2412.000	28.48	6.73	35.12	95.06	95.15	74.00	-21.15	Peak

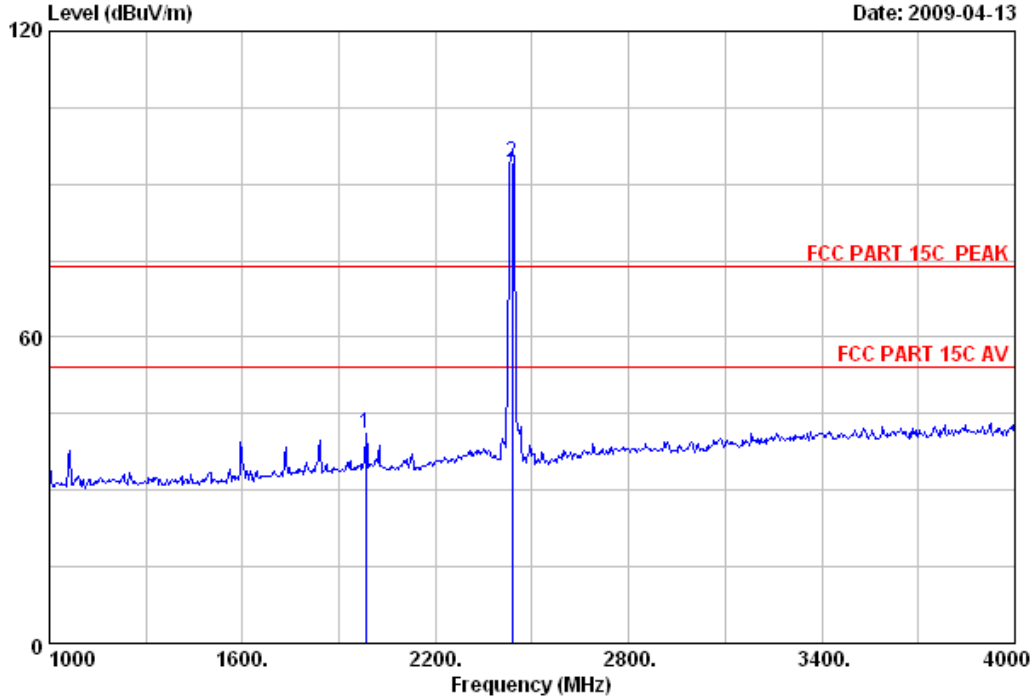
Remarks:

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



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Data: 99 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 99  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH6 2437MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1984.000	27.83	6.16	35.20	42.20	40.99	74.00	33.01	Peak
2	2437.000	28.53	6.80	35.11	94.18	94.40	74.00	-20.40	Peak

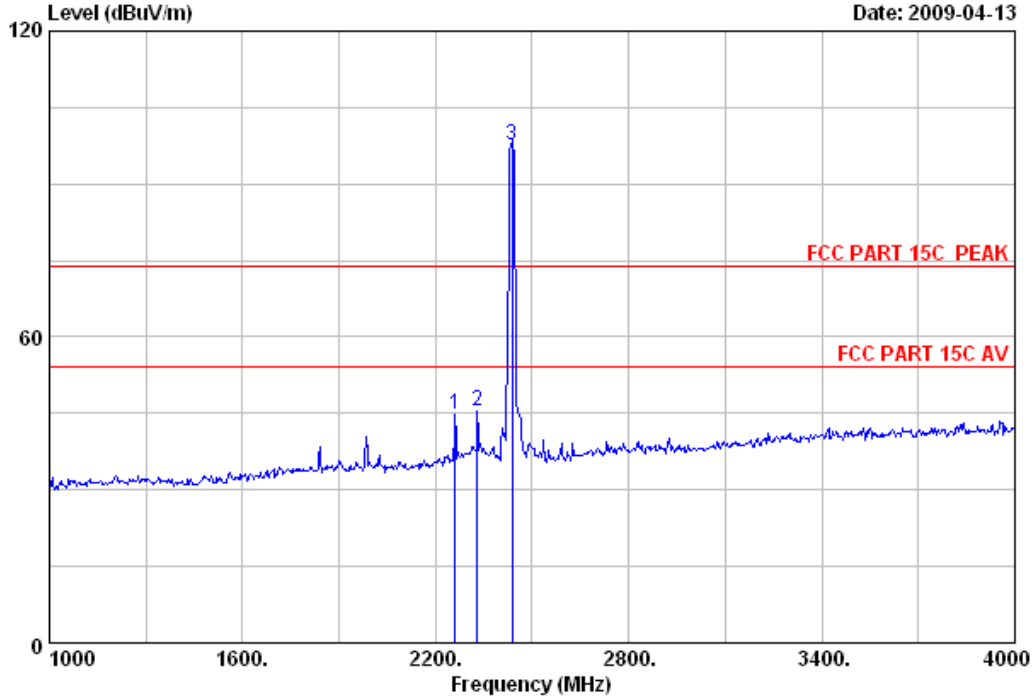
Remarks:

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



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Data: 100 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 100  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH6 2437MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2260.000	28.26	6.56	35.15	45.21	44.88	74.00	29.12	Peak
2	2329.000	28.36	6.65	35.13	45.56	45.44	74.00	28.56	Peak
3	2437.000	28.53	6.80	35.11	97.33	97.55	74.00	-23.55	Peak

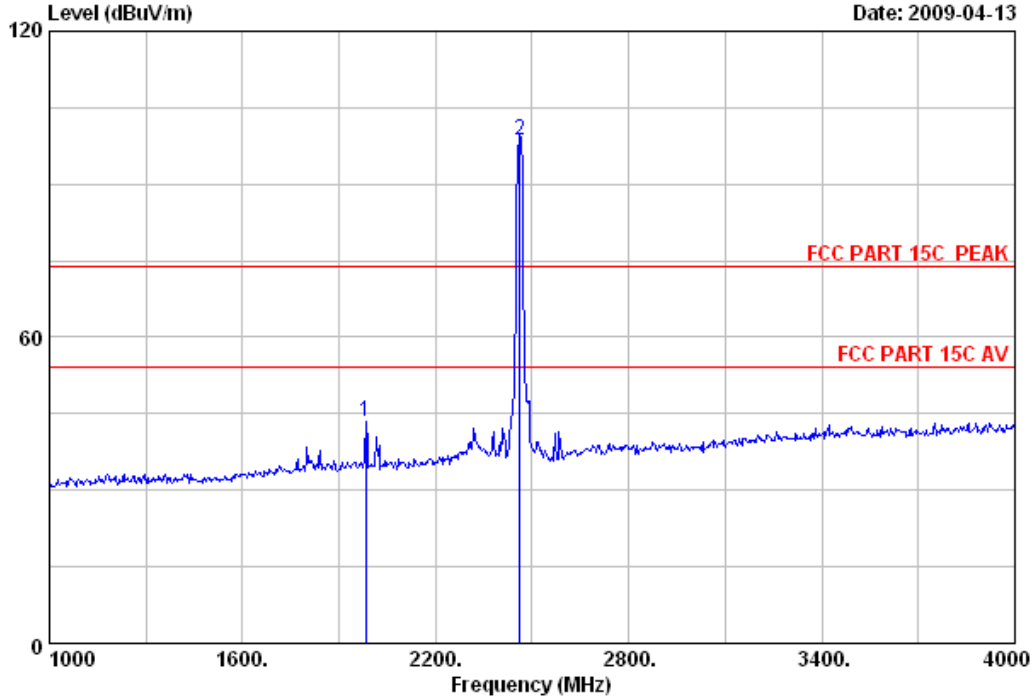
Remarks:

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



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Data: 101 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 101  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH11 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1984.000	27.83	6.16	35.20	44.71	43.50	74.00	30.50	Peak
2	2462.000	28.55	6.84	35.11	98.36	98.64	74.00	-24.64	Peak

Remarks:

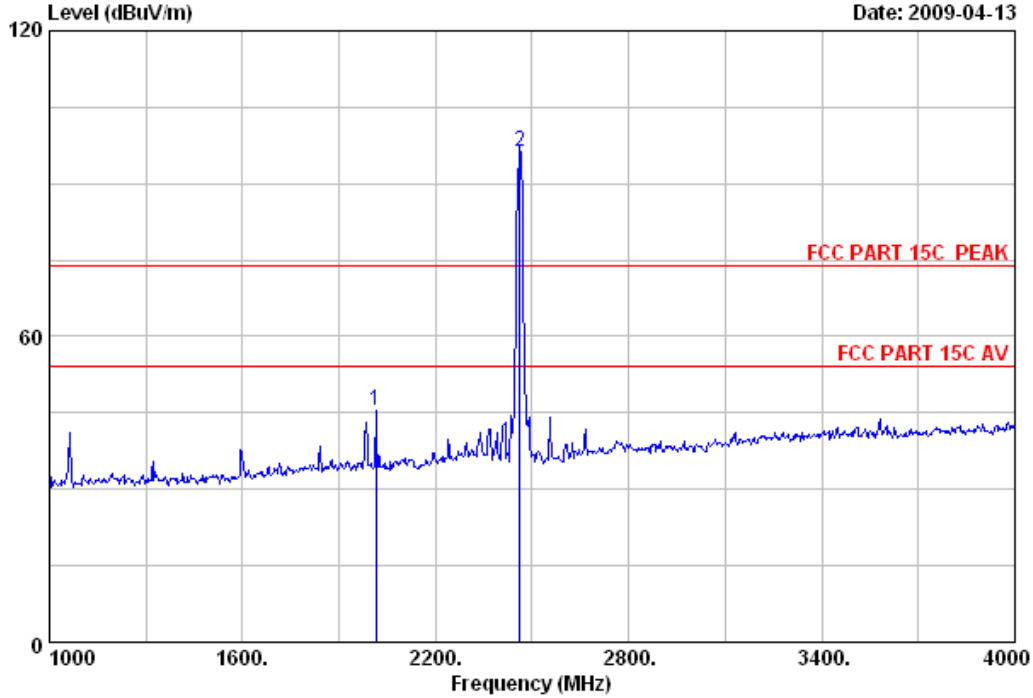
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.





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Data: 102 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 102  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH11 2462MHz

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	Factor	Loss	Factor	Reading	Level	(dBuV/m)	(dB)	
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2014.000	27.92	6.23	35.19	46.47	45.43	74.00	28.57	Peak
2	2462.000	28.55	6.84	35.11	95.90	96.18	74.00	-22.18	Peak

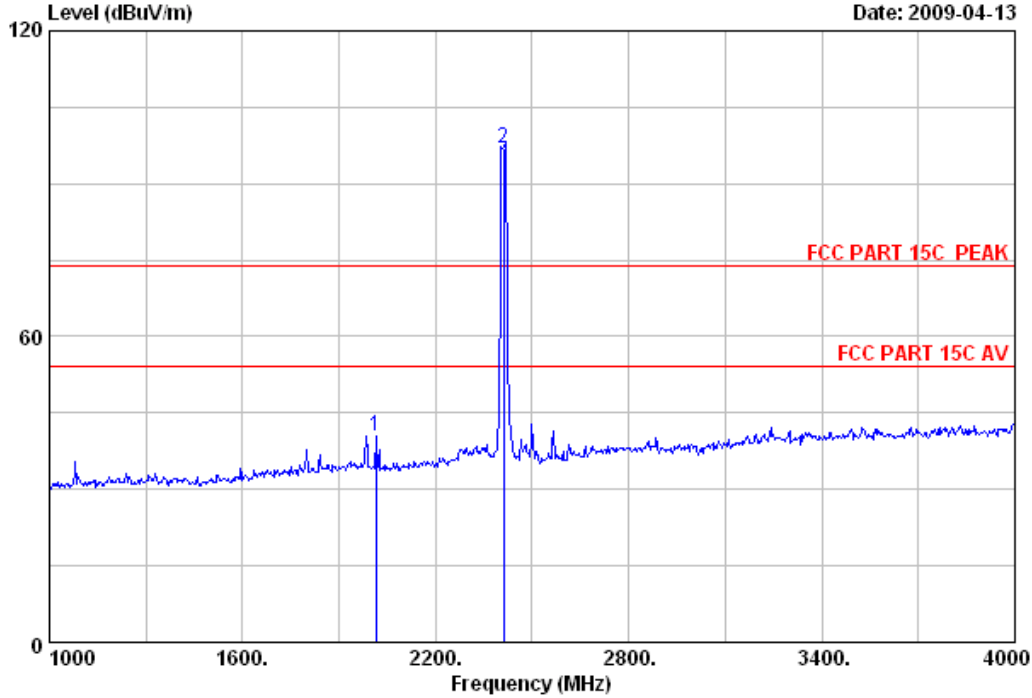
Remarks:

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



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Data: 103 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 103  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH1 2412MHz

	Freq.	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2014.000	27.92	6.23	35.19	41.36	40.32	74.00	33.68	Peak
2	2412.000	28.48	6.73	35.12	96.99	97.08	74.00	-23.08	Peak

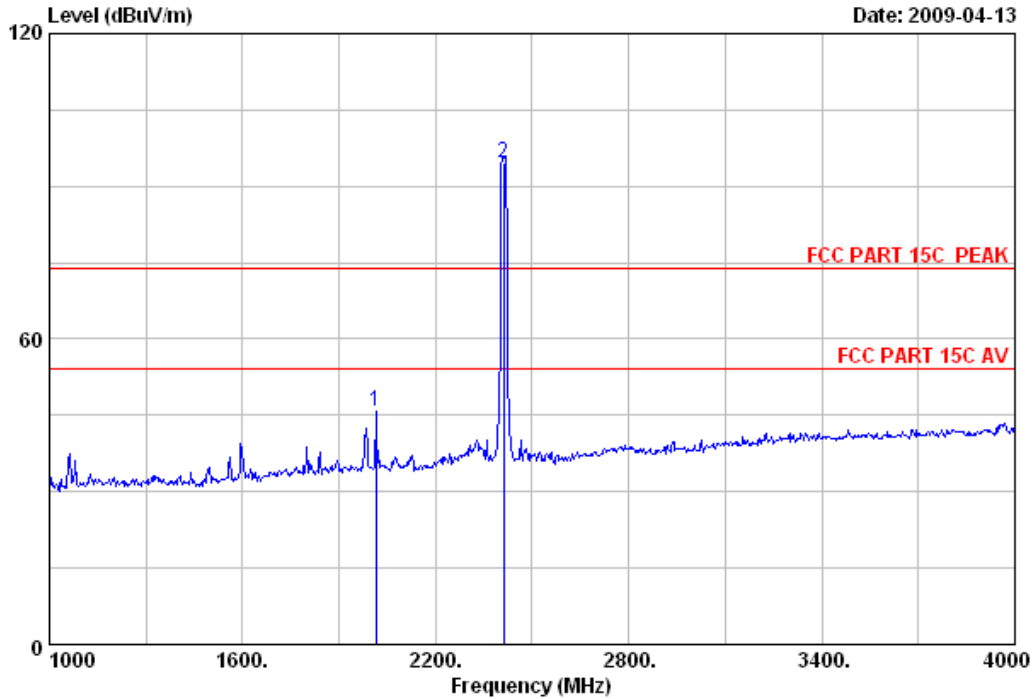
Remarks:

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



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Data: 104 File: E:\2009 report data\D'D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 104  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH1 2412MHz

	Ant.	Cable	Amp	Emission					
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	2014.000	27.92	6.23	35.19	46.69	45.65	74.00	28.35	Peak
2	2412.000	28.48	6.73	35.12	94.58	94.67	74.00	-20.67	Peak

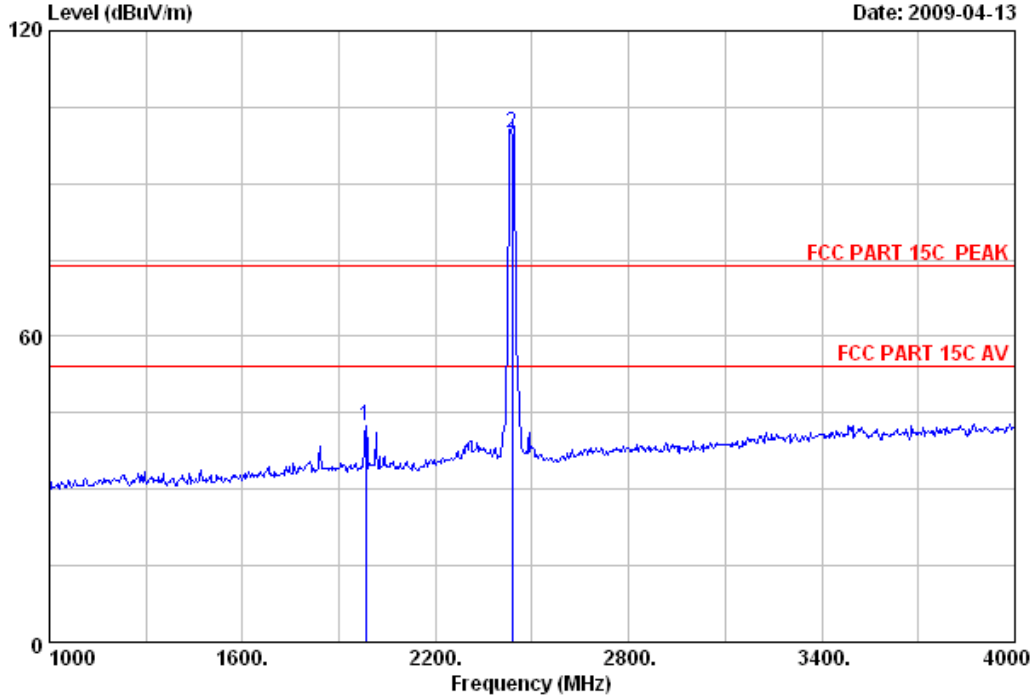
Remarks:

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



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Data: 105 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 105  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH6 2437MHz

	Freq.	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1984.000	27.83	6.16	35.20	43.64	42.43	74.00	31.57	Peak
2	2437.000	28.53	6.80	35.11	99.66	99.88	74.00	-25.88	Peak

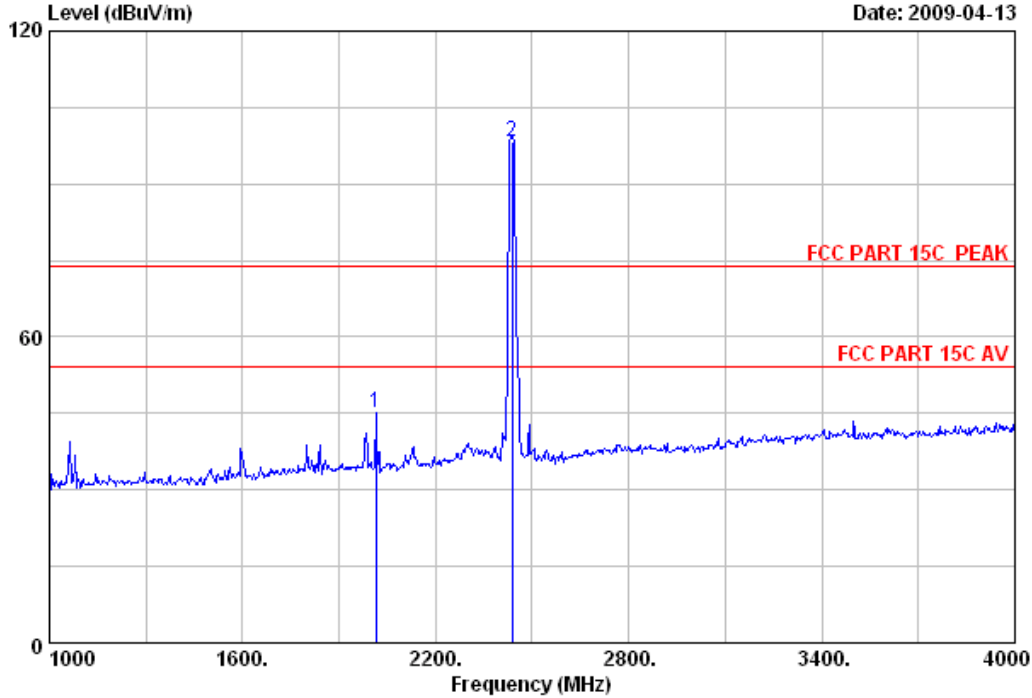
Remarks:

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



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Data: 106 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 106  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH6 2437MHz

	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	2014.000	27.92	6.23	35.19	46.21	45.17	74.00	28.83	Peak
2	2437.000	28.53	6.80	35.11	98.13	98.35	74.00	-24.35	Peak

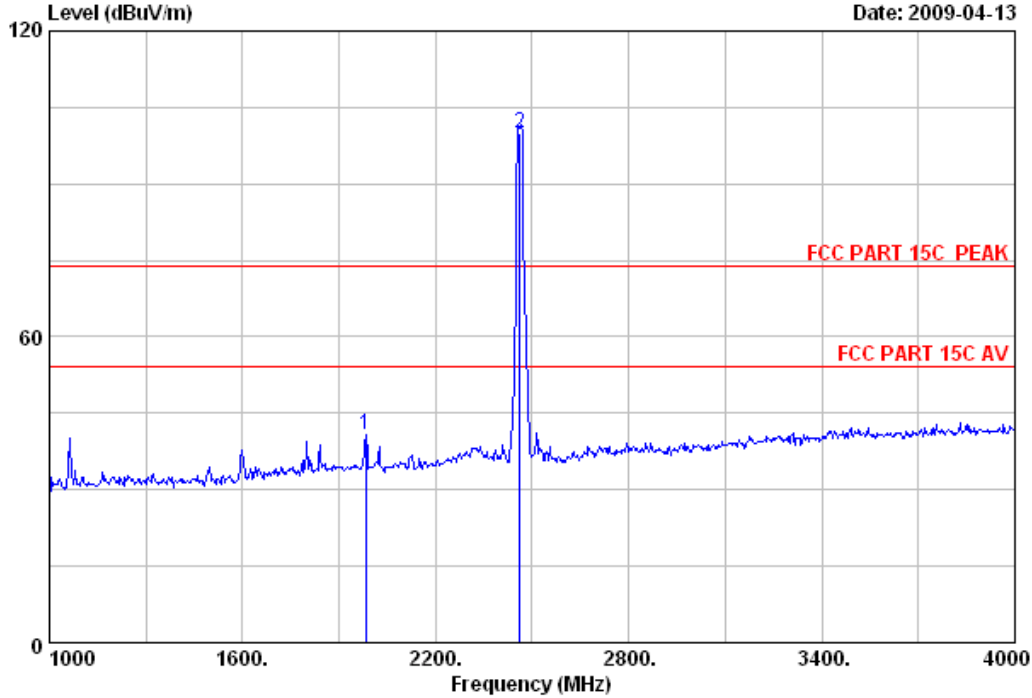
Remarks:

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



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Data: 107 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 107  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH11 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1984.000	27.83	6.16	35.20	41.86	40.65	74.00	33.35	Peak
2	2462.000	28.55	6.84	35.11	99.60	99.88	74.00	-25.88	Peak

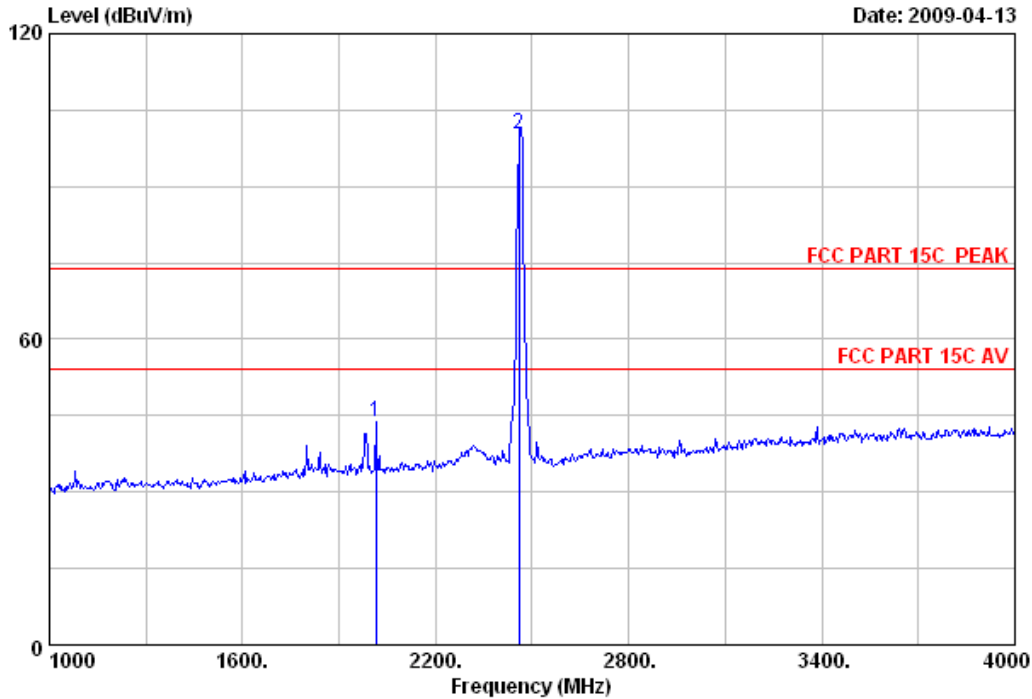
Remarks:

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



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Data: 108 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 108  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH11 2462MHz

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	Factor	Loss	Factor	Reading	Level	(dBuV/m)	(dB)	
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2014.000	27.92	6.23	35.19	44.69	43.65	74.00	30.35	Peak
2	2460.000	28.55	6.84	35.11	100.16	100.44	74.00	-26.44	Peak

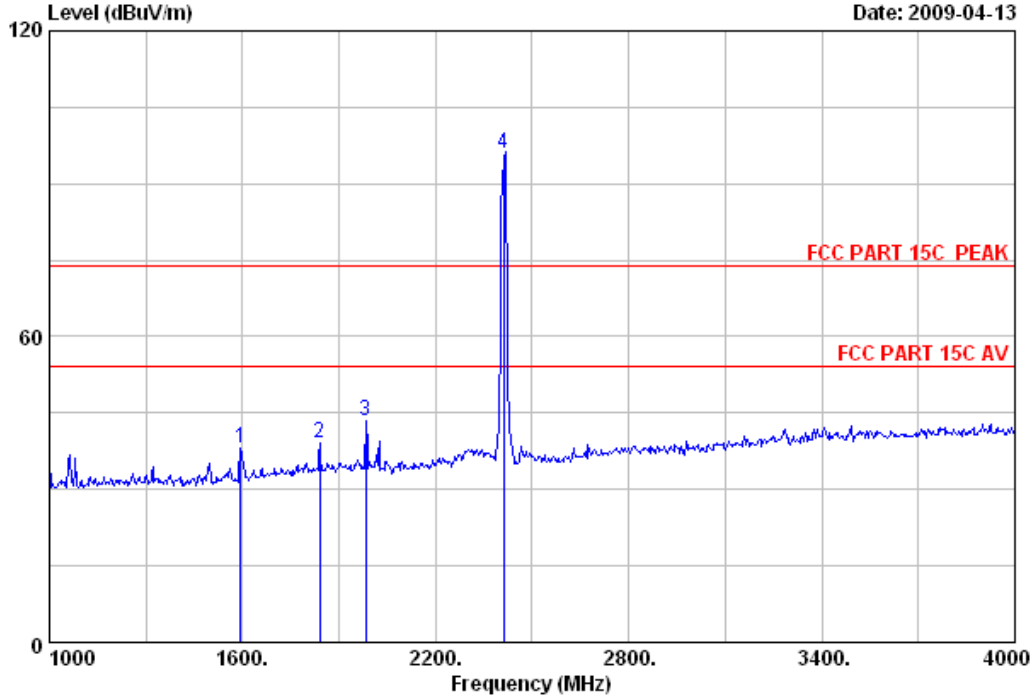
Remarks:

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



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Data: 109 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 109  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH1 2412MHz

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	(dB/m)	Loss	Factor	Reading	Level	(dBuV/m)	(dB)	
			(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)		
1	1594.000	26.30	5.43	35.65	41.89	37.97	74.00	36.03	Peak
2	1840.000	27.23	5.86	35.37	41.37	39.09	74.00	34.91	Peak
3	1984.000	27.83	6.16	35.20	44.71	43.50	74.00	30.50	Peak
4	2412.000	28.48	6.73	35.12	95.75	95.84	74.00	-21.84	Peak

Remarks:

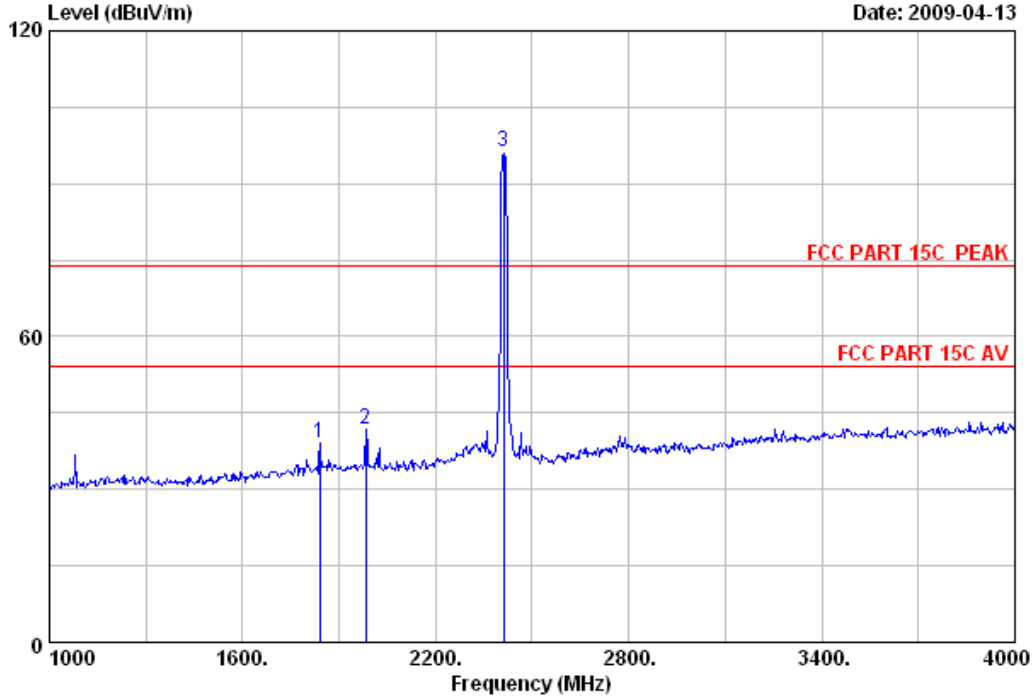
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.





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Data: 110 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 110  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH1 2412MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1840.000	27.23	5.86	35.37	41.46	39.18	74.00	34.82	Peak
2	1984.000	27.83	6.16	35.20	43.10	41.89	74.00	32.11	Peak
3	2412.000	28.48	6.73	35.12	96.14	96.23	74.00	-22.23	Peak

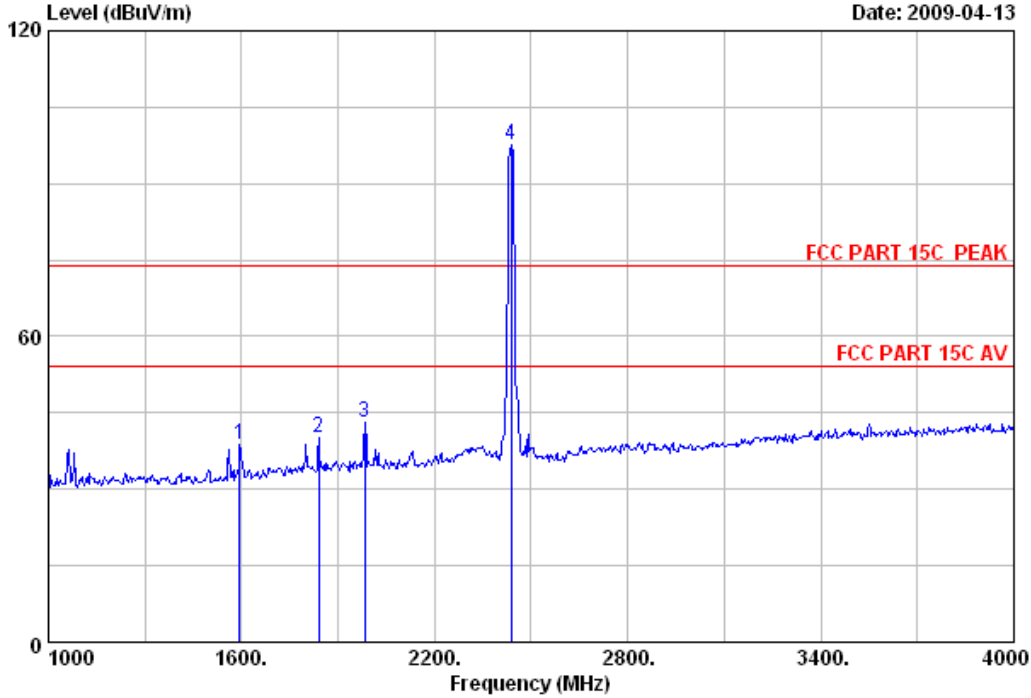
Remarks:

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



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Data: 111 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Date: 2009-04-13

Site no. : 3m Chamber Data no. : 111  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH6 2437MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1594.000	26.30	5.43	35.65	42.60	38.68	74.00	35.32	Peak
2	1840.000	27.23	5.86	35.37	42.29	40.01	74.00	33.99	Peak
3	1984.000	27.83	6.16	35.20	44.35	43.14	74.00	30.86	Peak
4	2437.000	28.53	6.80	35.11	97.22	97.44	74.00	-23.44	Peak

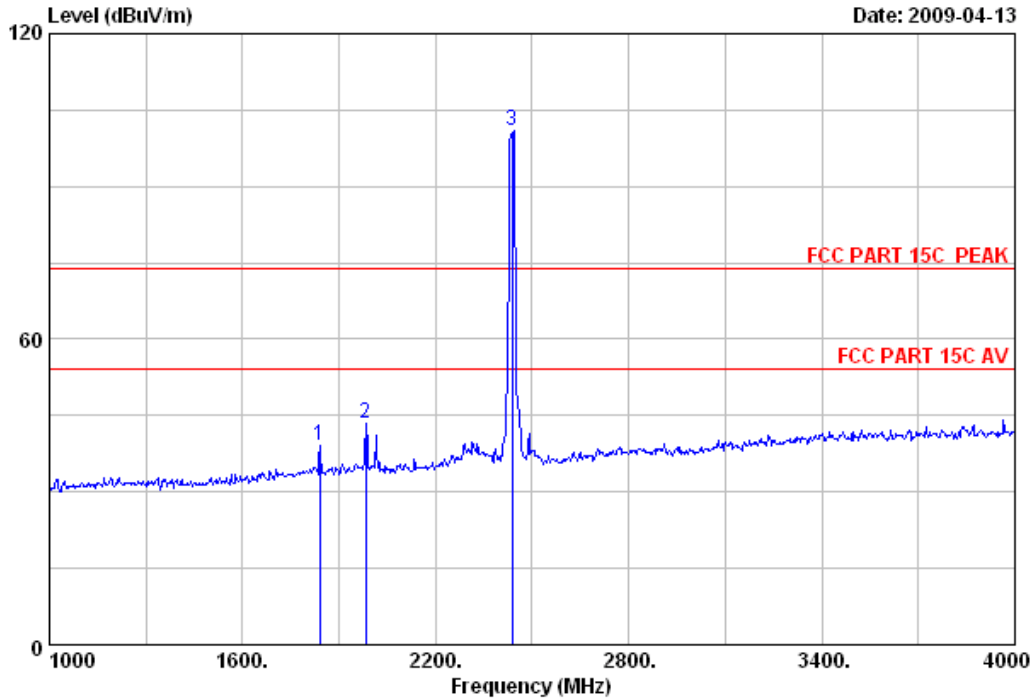
Remarks:

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



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Data: 112 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 112  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH6 2437MHz

	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	1840.000	27.23	5.86	35.37	41.54	39.26	74.00	34.74	Peak
2	1984.000	27.83	6.16	35.20	44.76	43.55	74.00	30.45	Peak
3	2437.000	28.53	6.80	35.11	100.56	100.78	74.00	-26.78	Peak

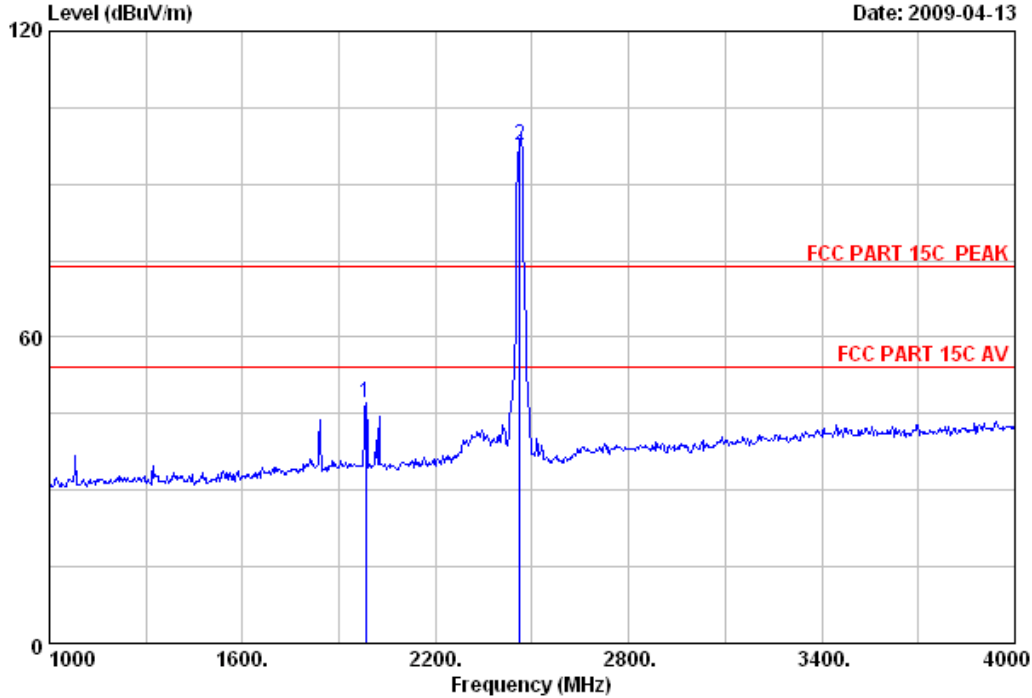
Remarks:

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



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Data: 113 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 113  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH11 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1984.000	27.83	6.16	35.20	48.44	47.23	74.00	26.77	Peak
2	2462.000	28.55	6.84	35.11	97.31	97.59	74.00	-23.59	Peak

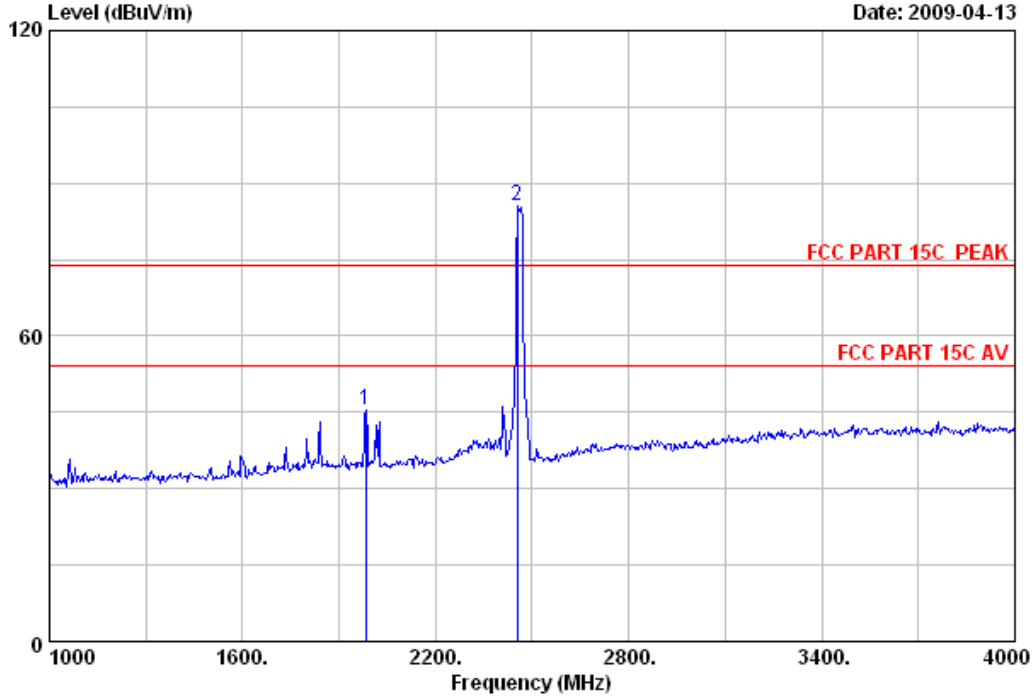
Remarks:

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



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Data: 114 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 114  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH11 2462MHz

	Ant.	Cable	Amp	Emission			Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	(dB)		
1	1984.000	27.83	6.16	35.20	46.66	45.45	74.00	28.55	Peak
2	2455.000	28.55	6.84	35.11	85.14	85.42	74.00	-11.42	Peak

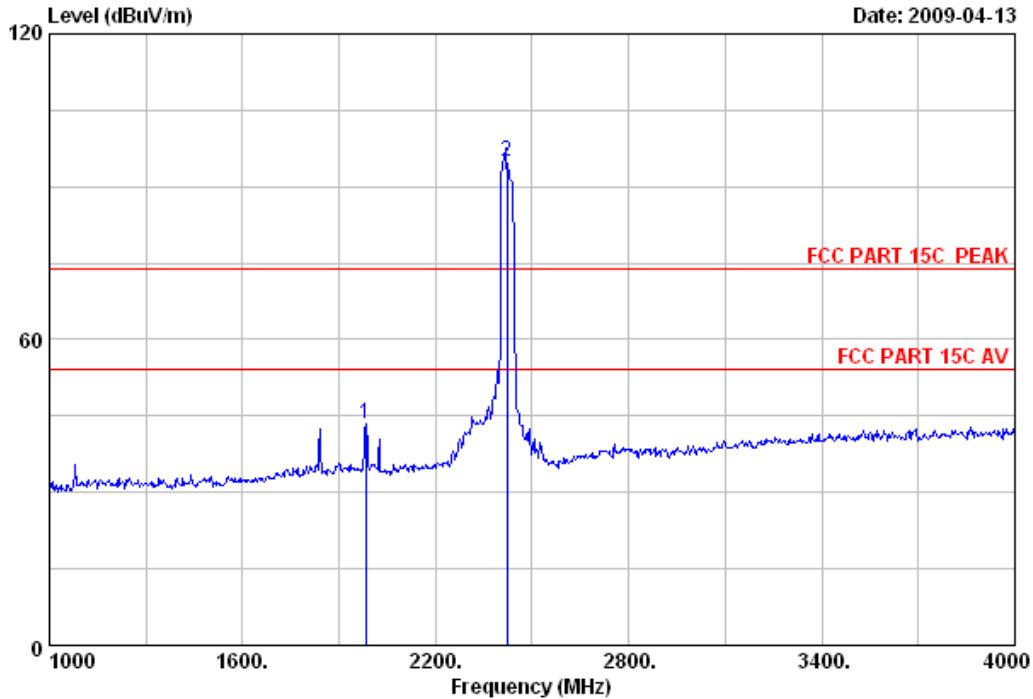
Remarks:

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



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Data: 115 File: E:\2009 report data\D'D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 115  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH1 2422MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1984.000	27.83	6.16	35.20	44.65	43.44	74.00	30.56	Peak
2	2422.000	28.50	6.77	35.11	94.62	94.78	74.00	-20.78	Peak

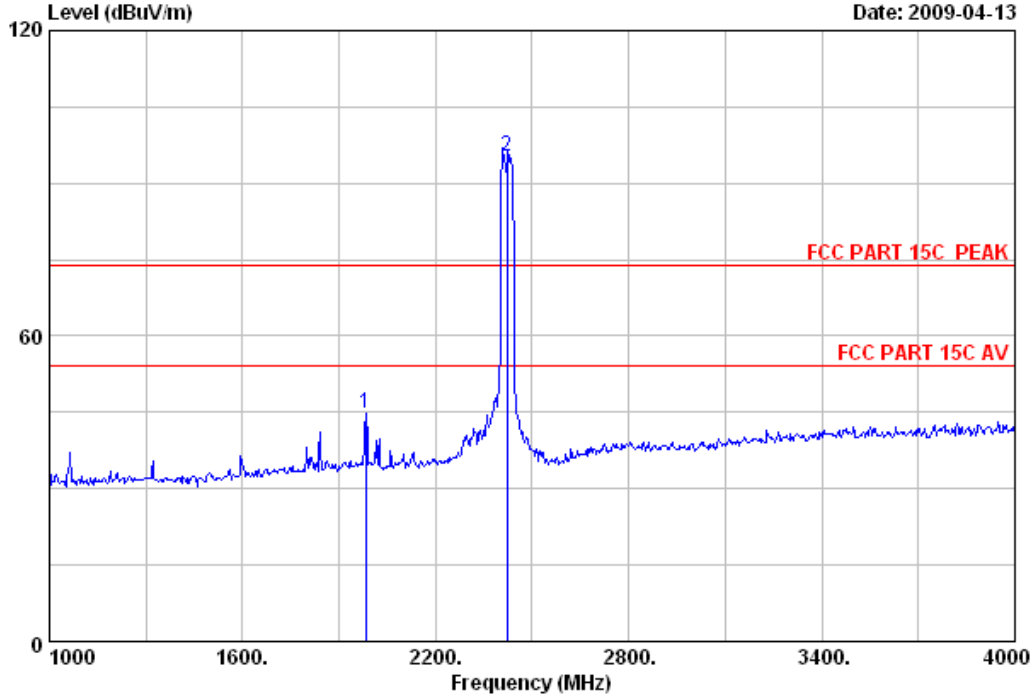
Remarks:

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



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Data: 116 File: E:\2009 report data\D'D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 116  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH1 2422MHz

	Ant.	Cable	Amp	Emission			Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	(dB)	
1 1984.000	27.83	6.16	35.20	46.12	44.91	74.00	29.09	Peak
2 2422.000	28.50	6.77	35.11	95.10	95.26	74.00	-21.26	Peak

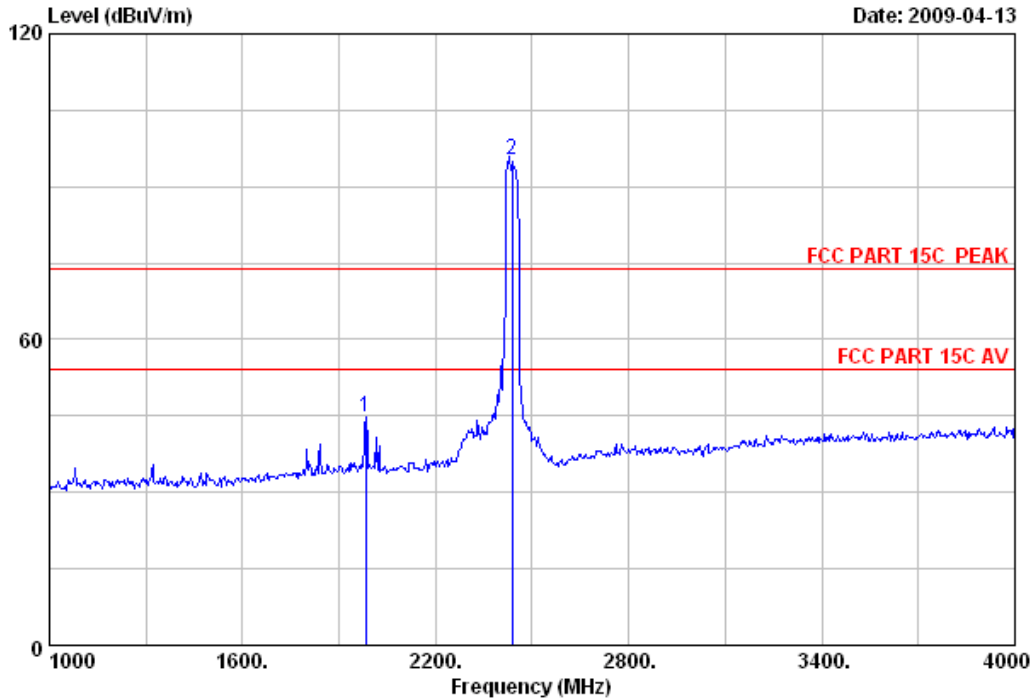
Remarks:

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



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Data: 117 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 117  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH4 2437MHz

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	Factor	Loss	Factor	Reading	Level	(dBuV/m)	(dB)	
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1984.000	27.83	6.16	35.20	45.95	44.74	74.00	29.26	Peak
2	2437.000	28.53	6.80	35.11	95.11	95.33	74.00	-21.33	Peak

Remarks:

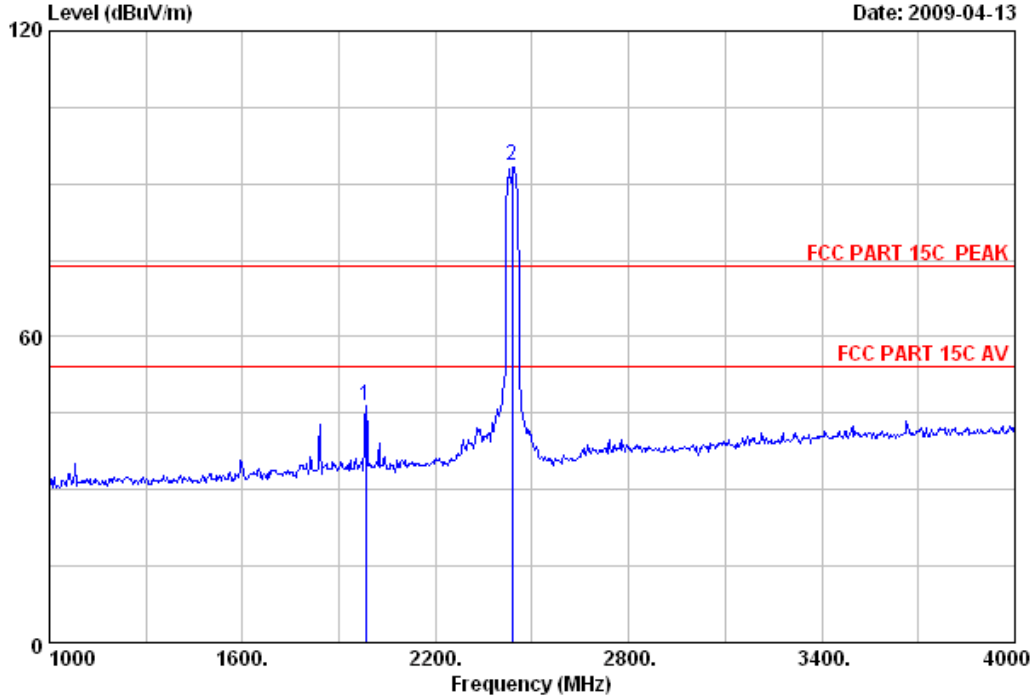
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.





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Data: 118 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 118  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH4 2437MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1984.000	27.83	6.16	35.20	47.74	46.53	74.00	27.47	Peak
2	2437.000	28.53	6.80	35.11	93.39	93.61	74.00	-19.61	Peak

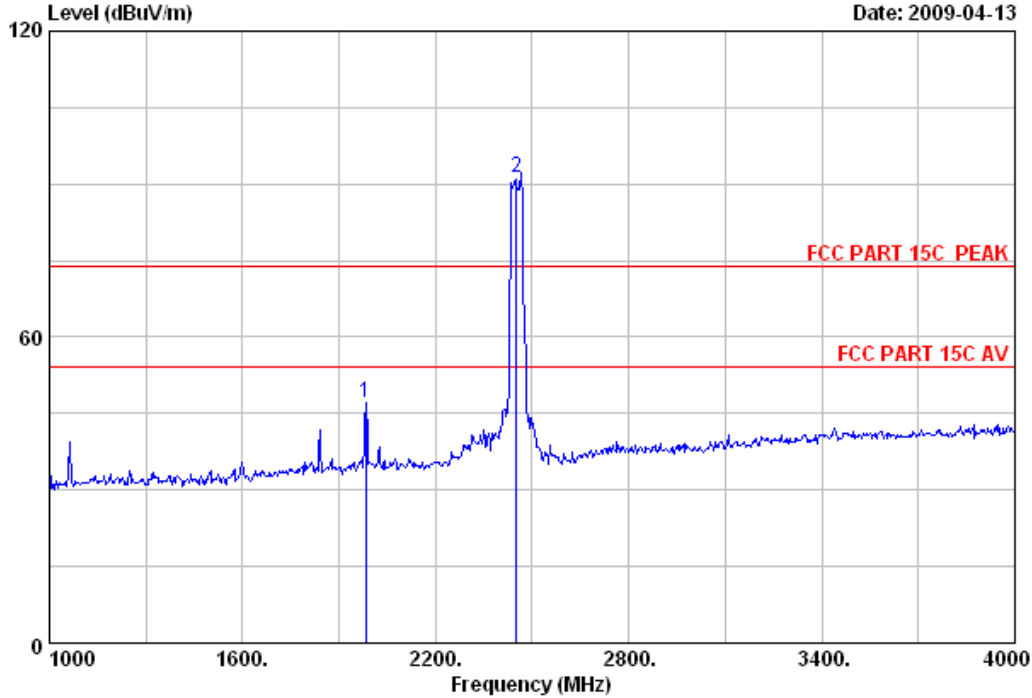
Remarks:

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



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Data: 119 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 119  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH7 2452MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1984.000	27.83	6.16	35.20	48.29	47.08	74.00	26.92	Peak
2	2452.000	28.53	6.84	35.11	90.98	91.24	74.00	-17.24	Peak

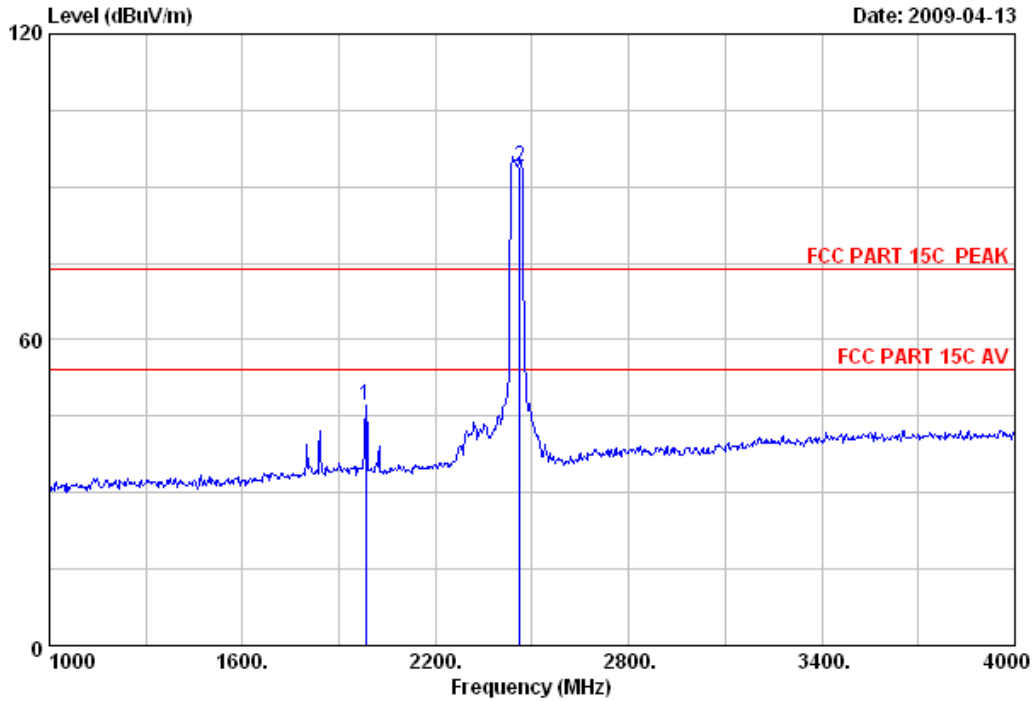
Remarks:

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



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Tel:+86-755-26639495-7  
Fax:+86-755-26632877  
Postcode:518057

Data: 120 File: E:\2009 report data\D\D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 120  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH7 2452MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1984.000	27.83	6.16	35.20	48.19	46.98	74.00	27.02	Peak
2	2462.000	28.55	6.84	35.11	93.72	94.00	74.00	-20.00	Peak

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 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,10, 08	1 Year
2	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May,28, 08	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, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

### 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.

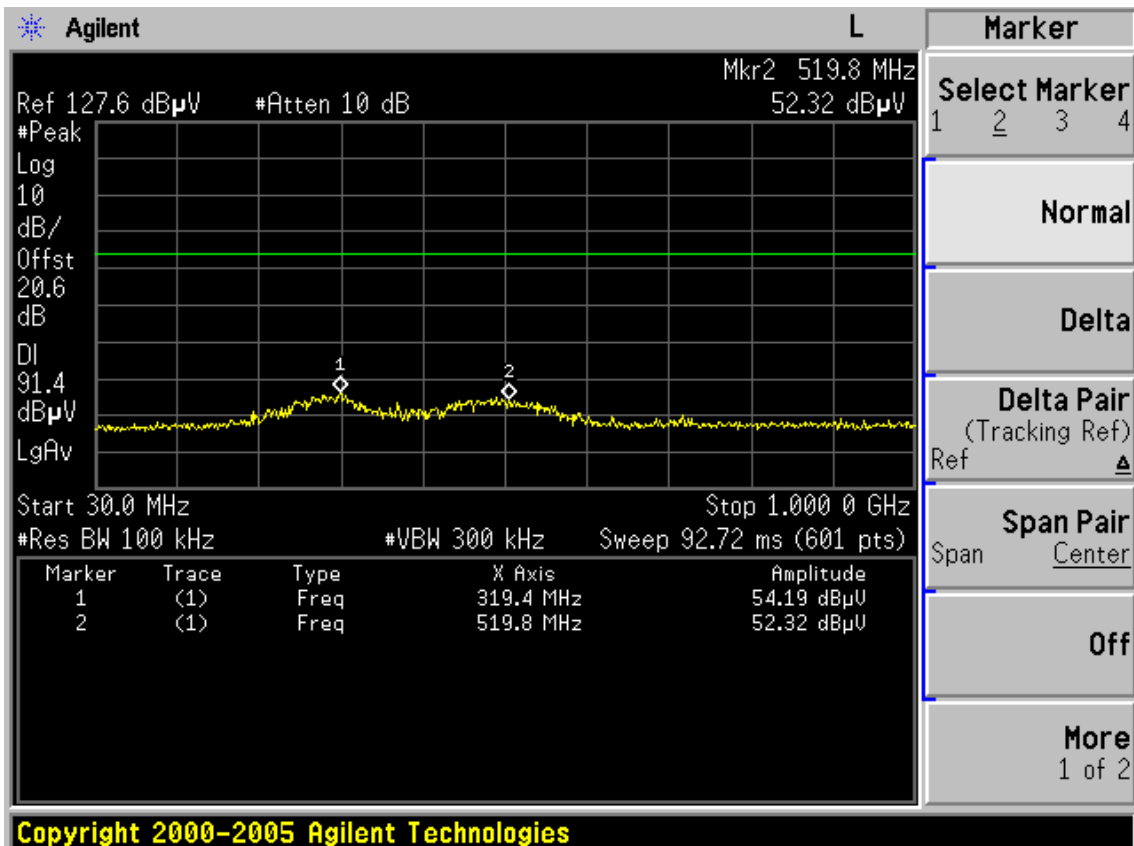
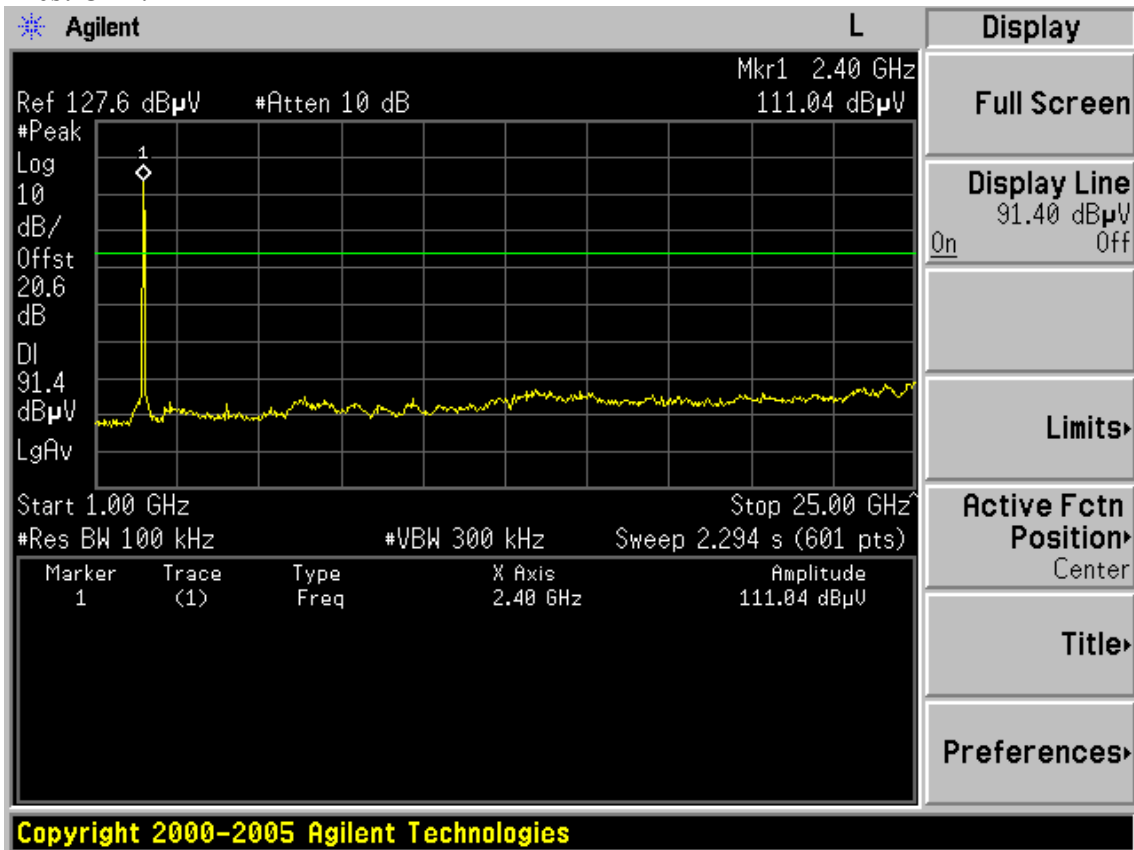
### 5.4. Test result

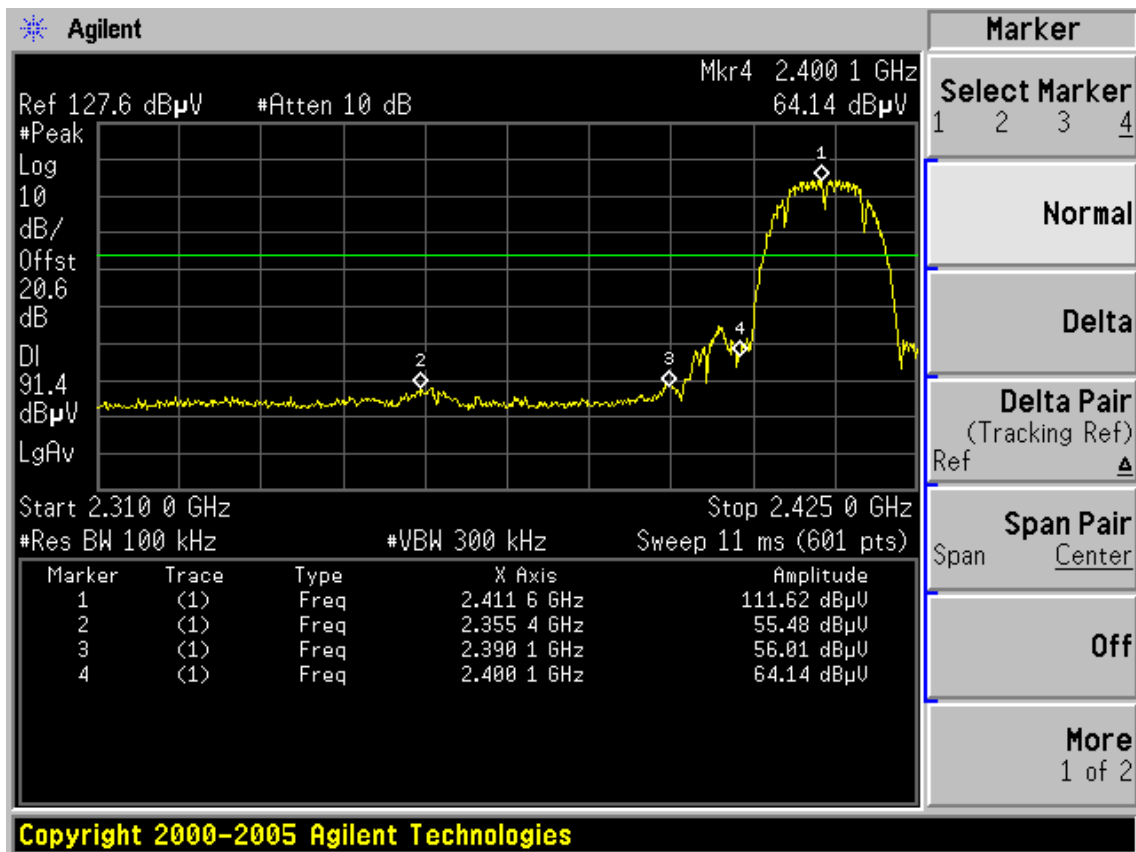
**PASS** (The testing data was attached in the next pages.)

**Conducted emission test data:**

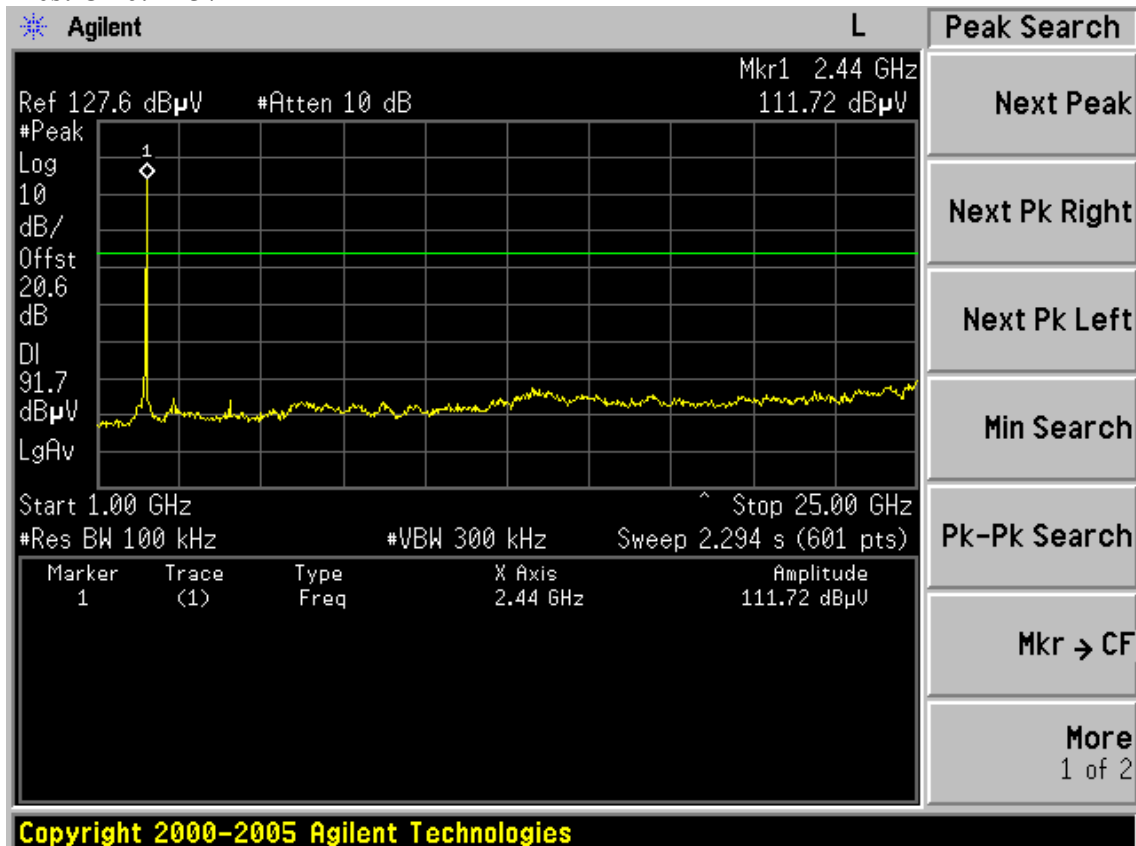
Test Mode: IEEE 802.11b TX

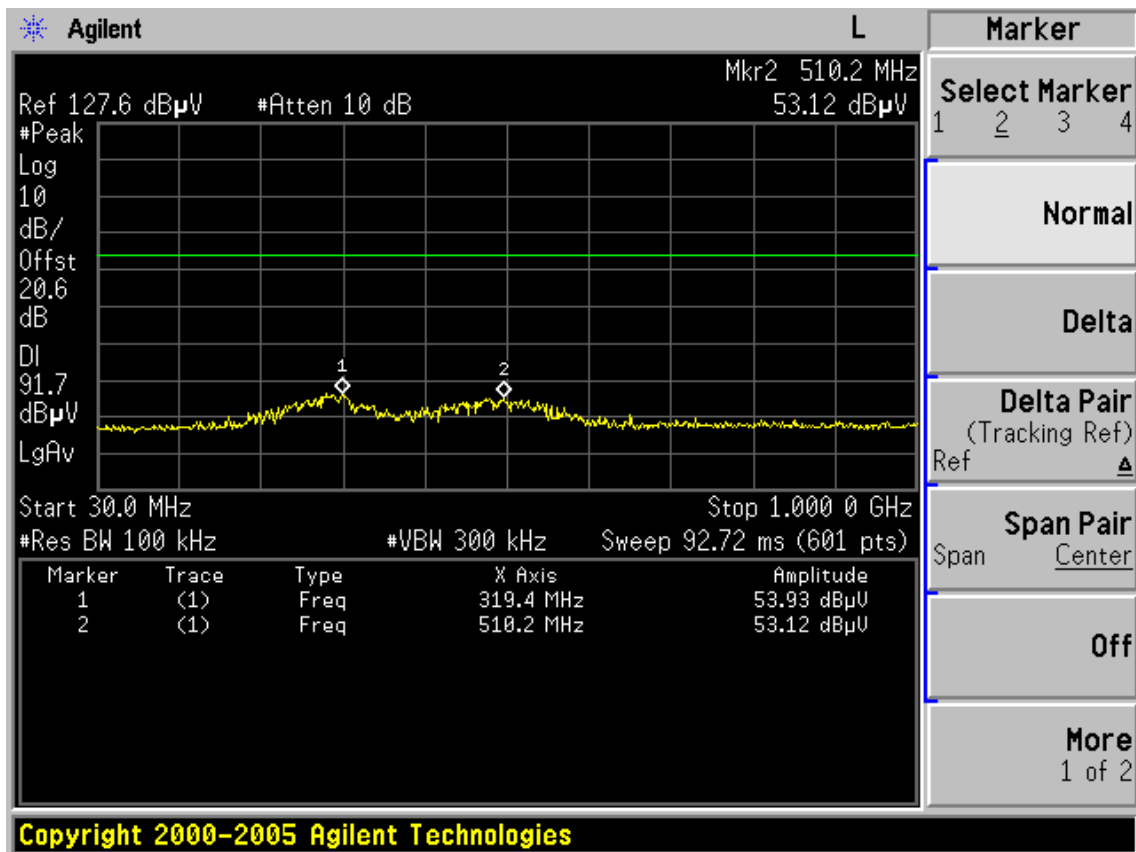
Test CH1: 2412MHz



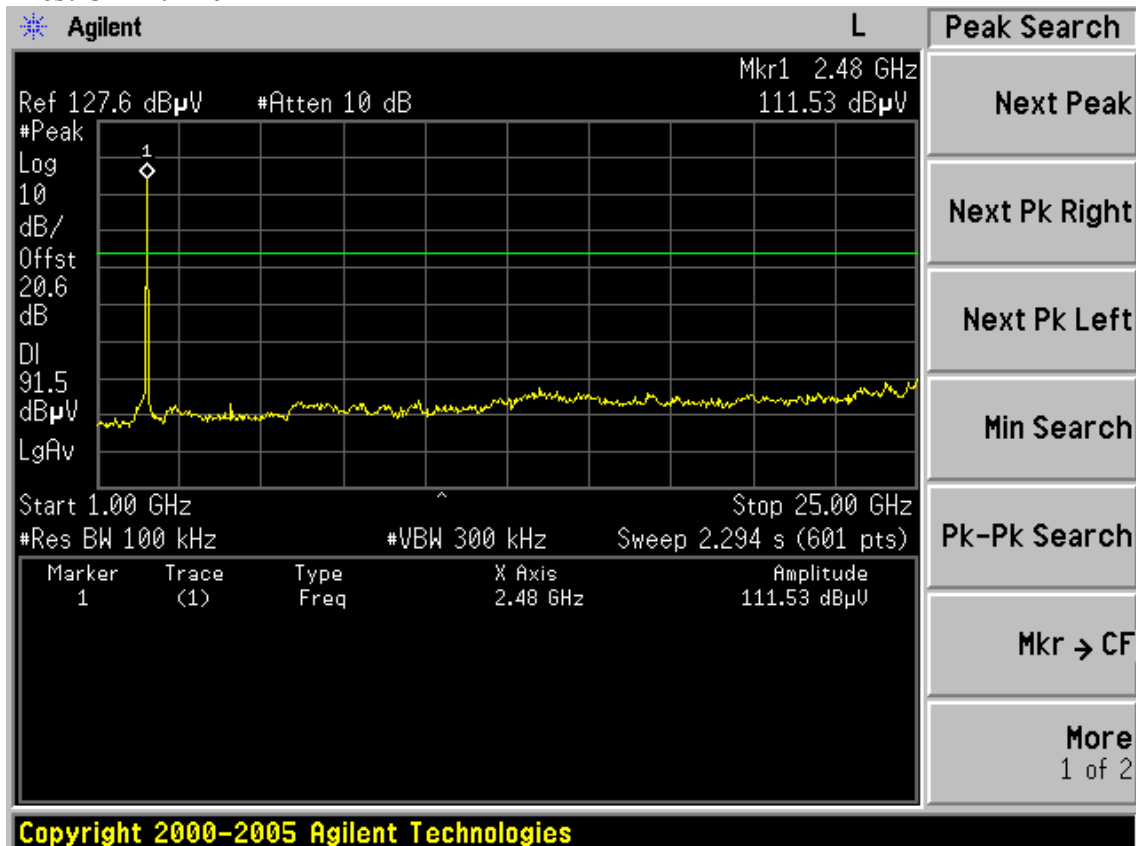


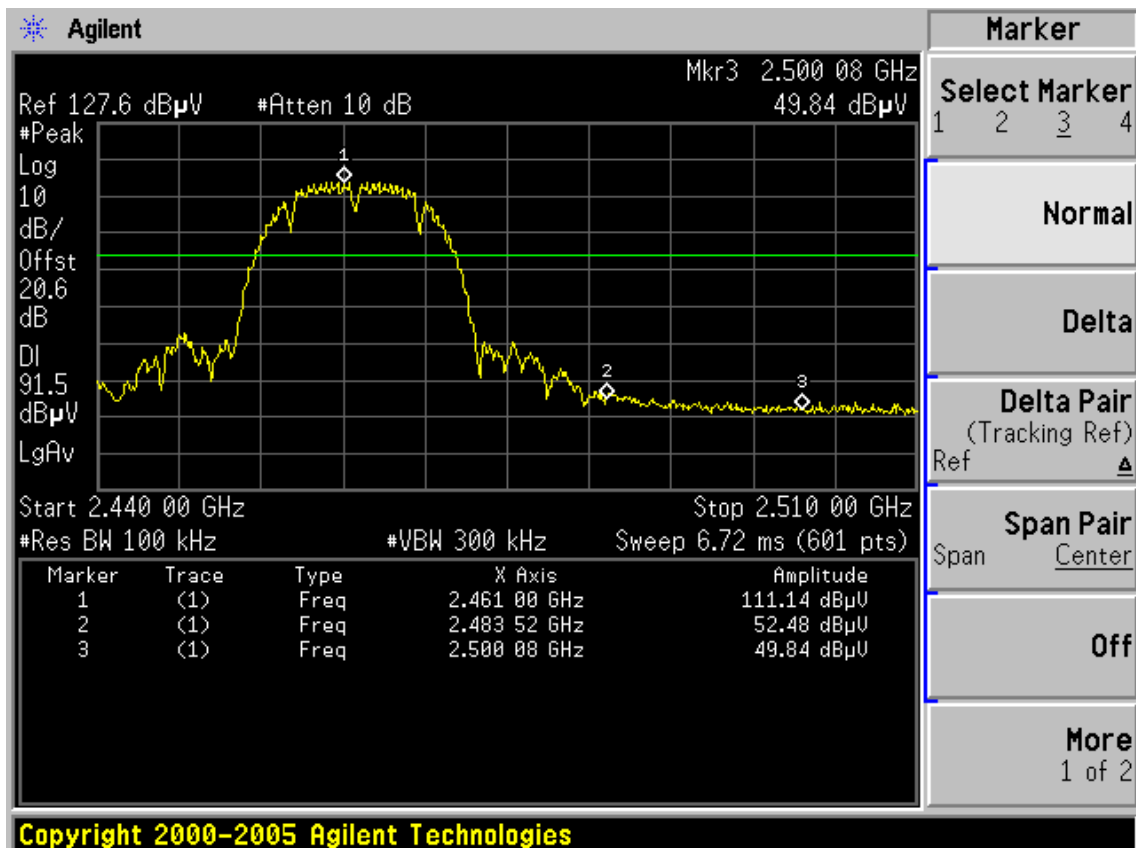
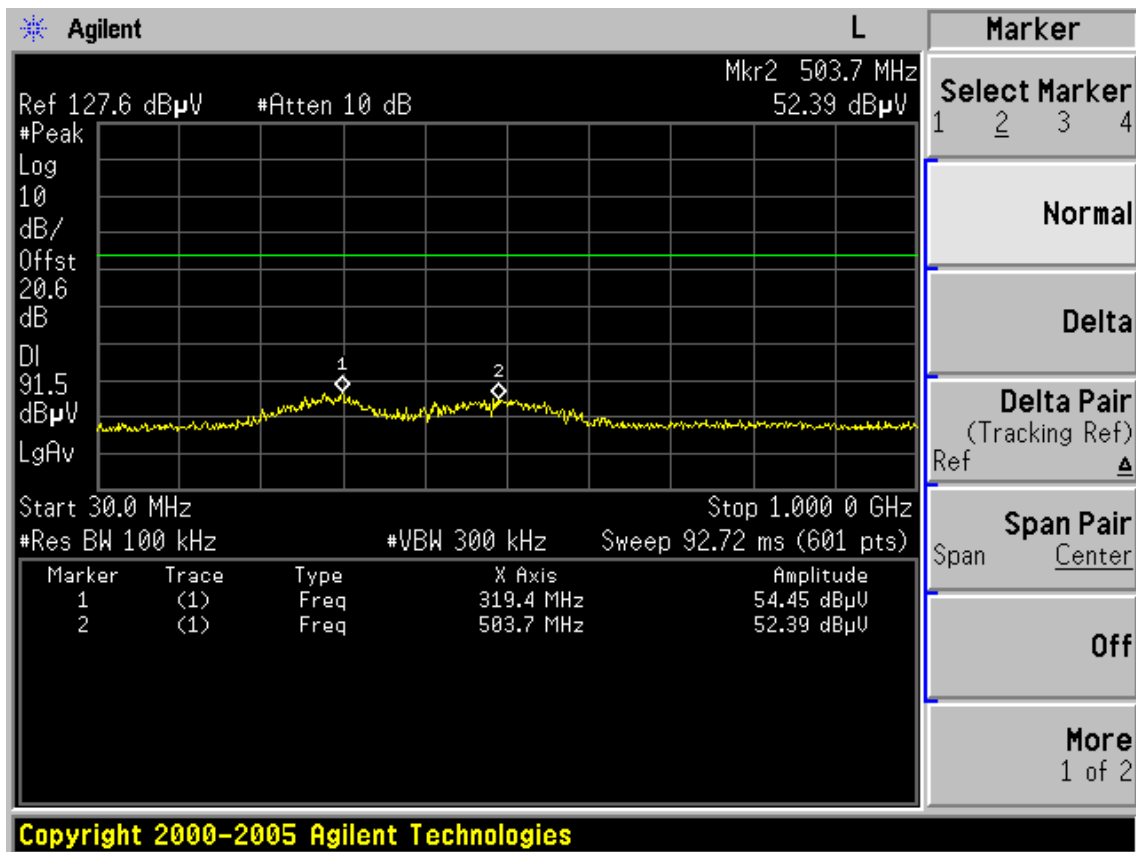
Test CH6: 2437MHz





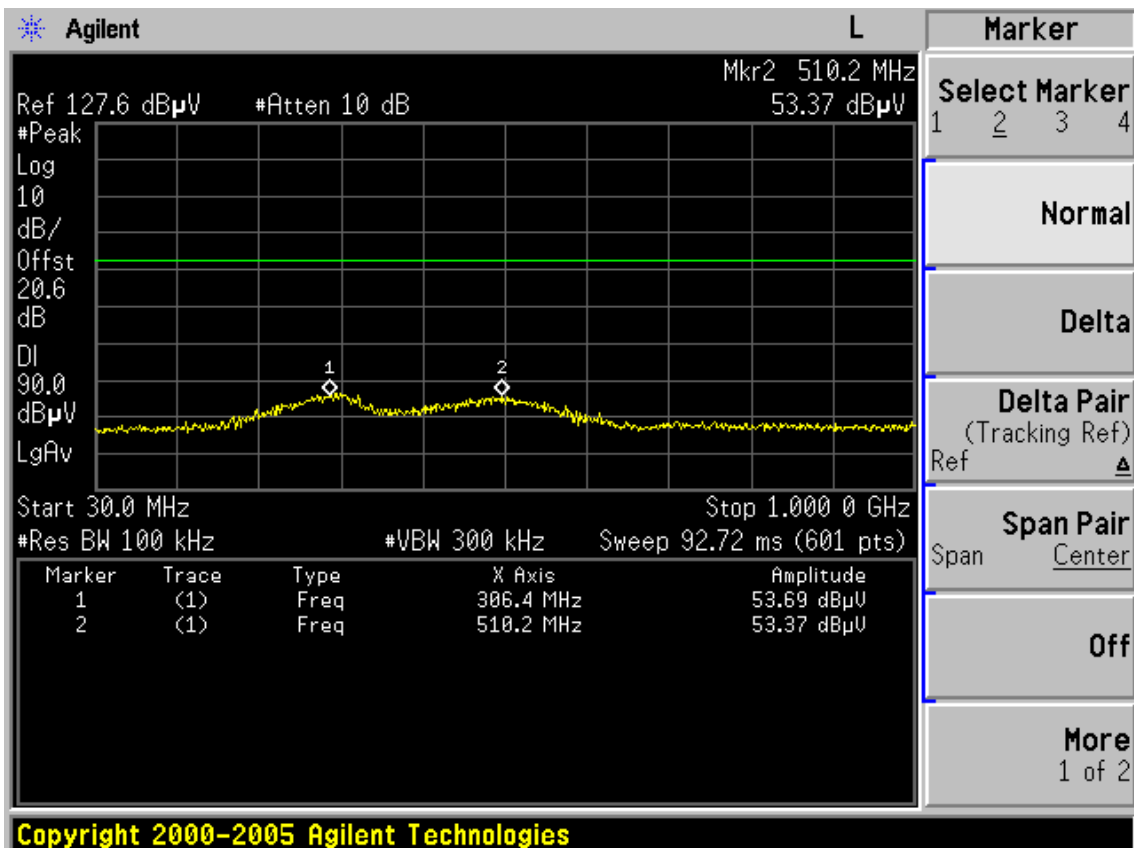
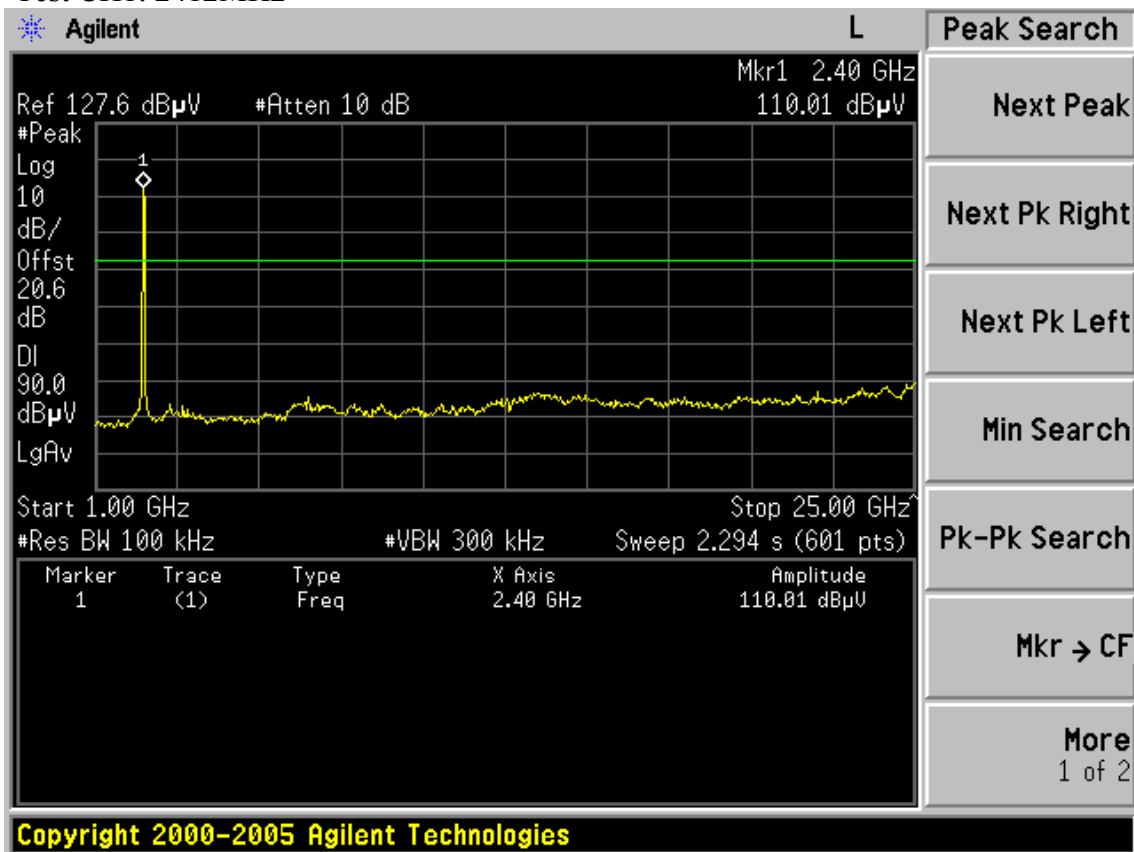
Test CH11: 2462MHz

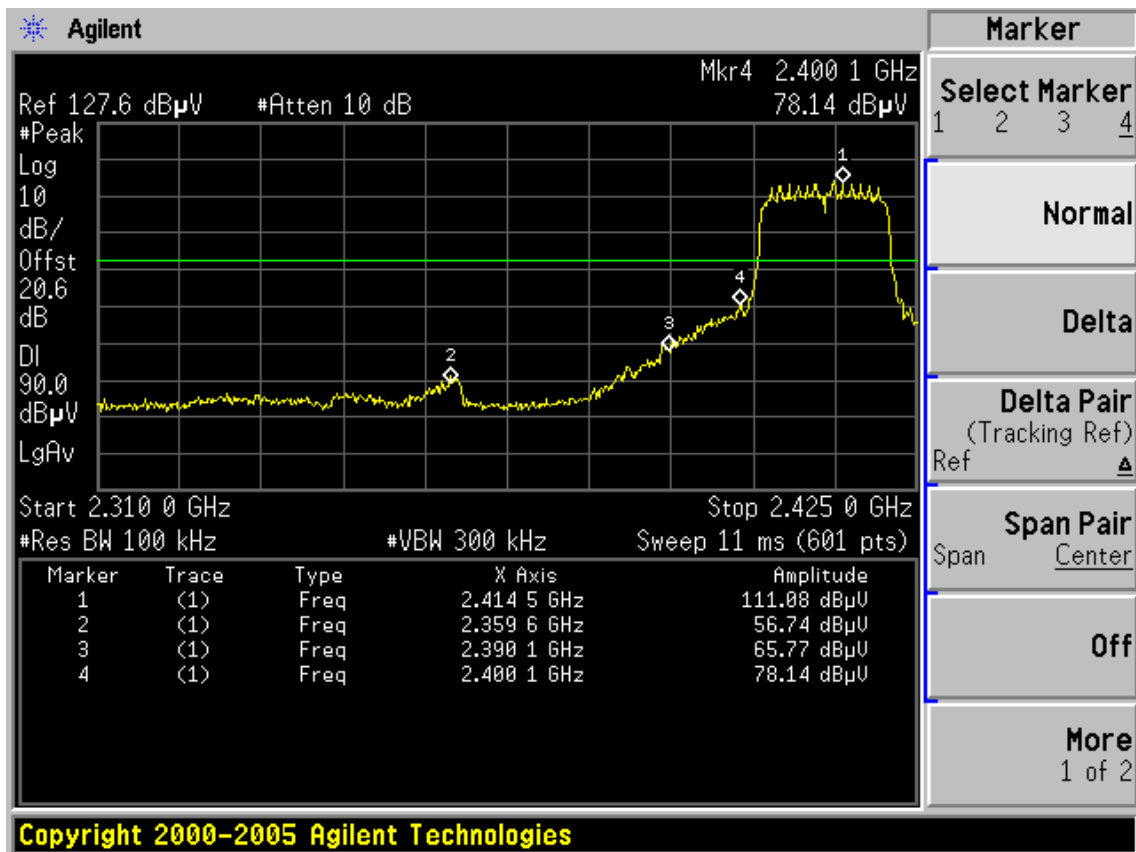




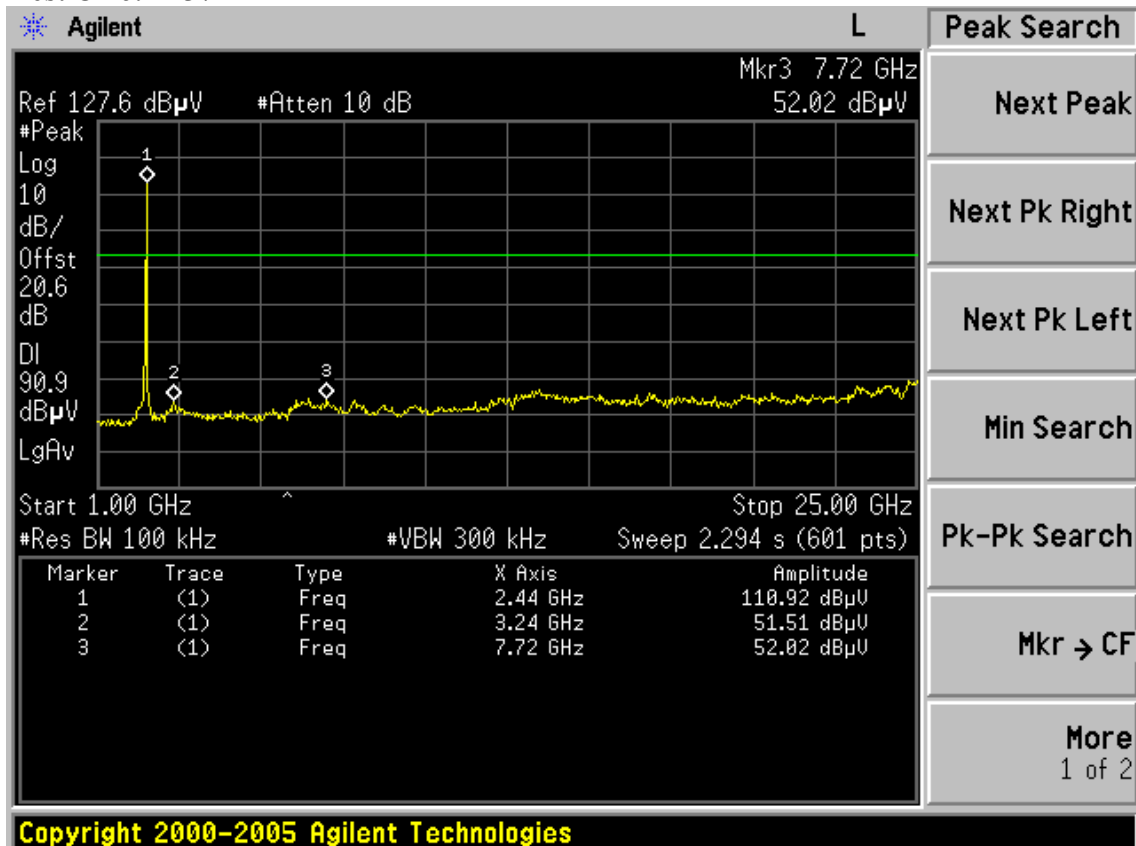


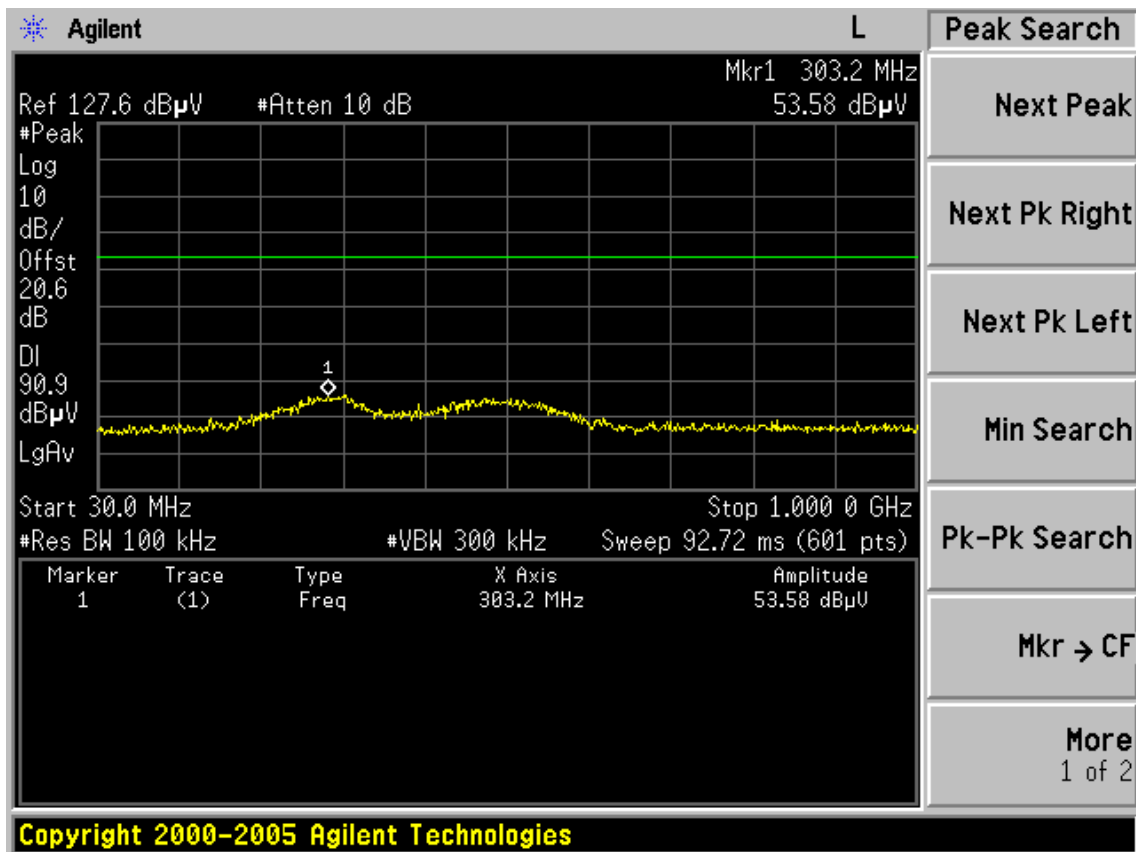
Test Mode: IEEE 802.11g TX  
 Test CH1: 2412MHz



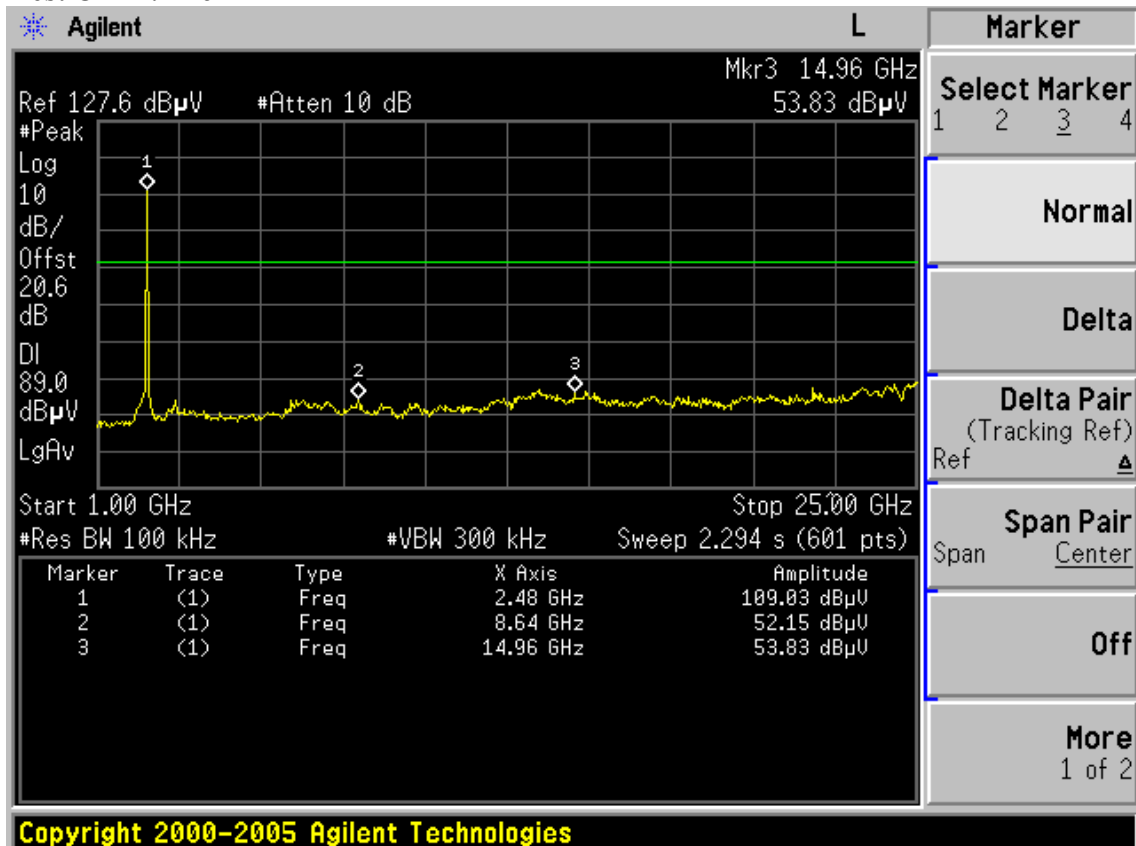


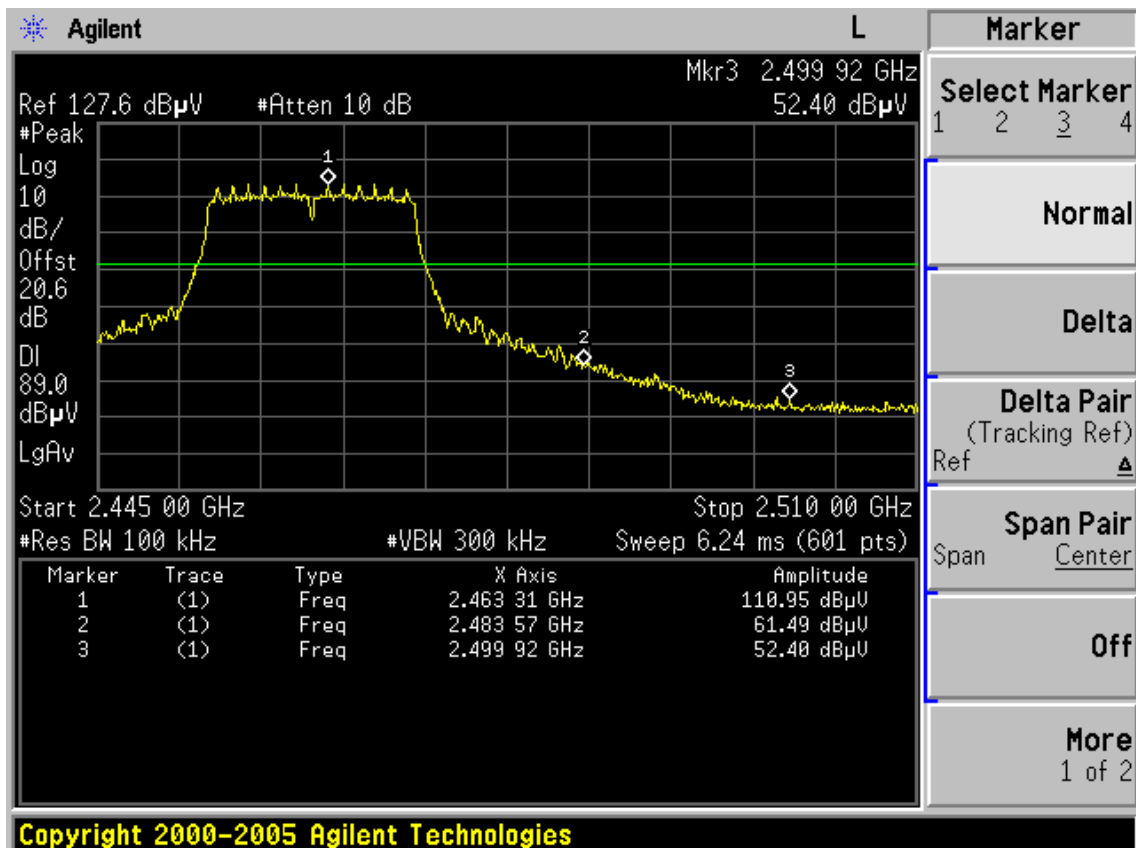
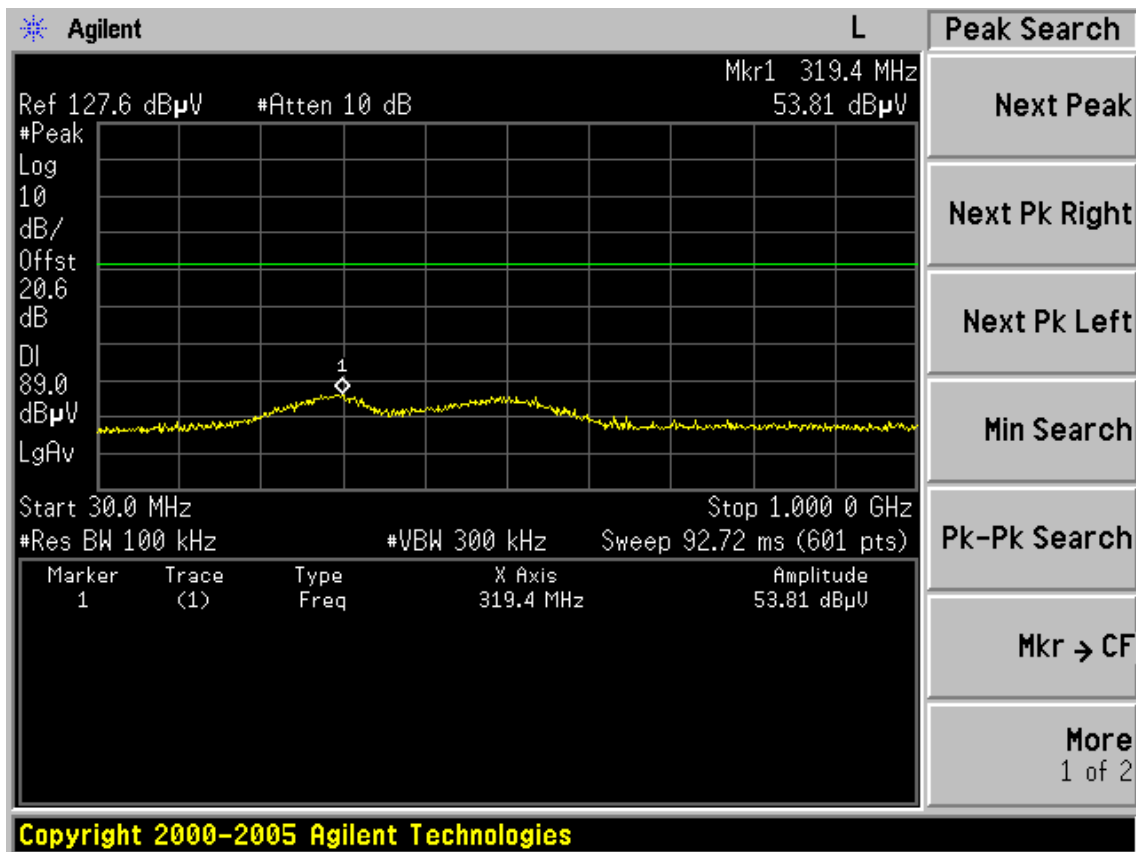
Test CH6: 2437MHz



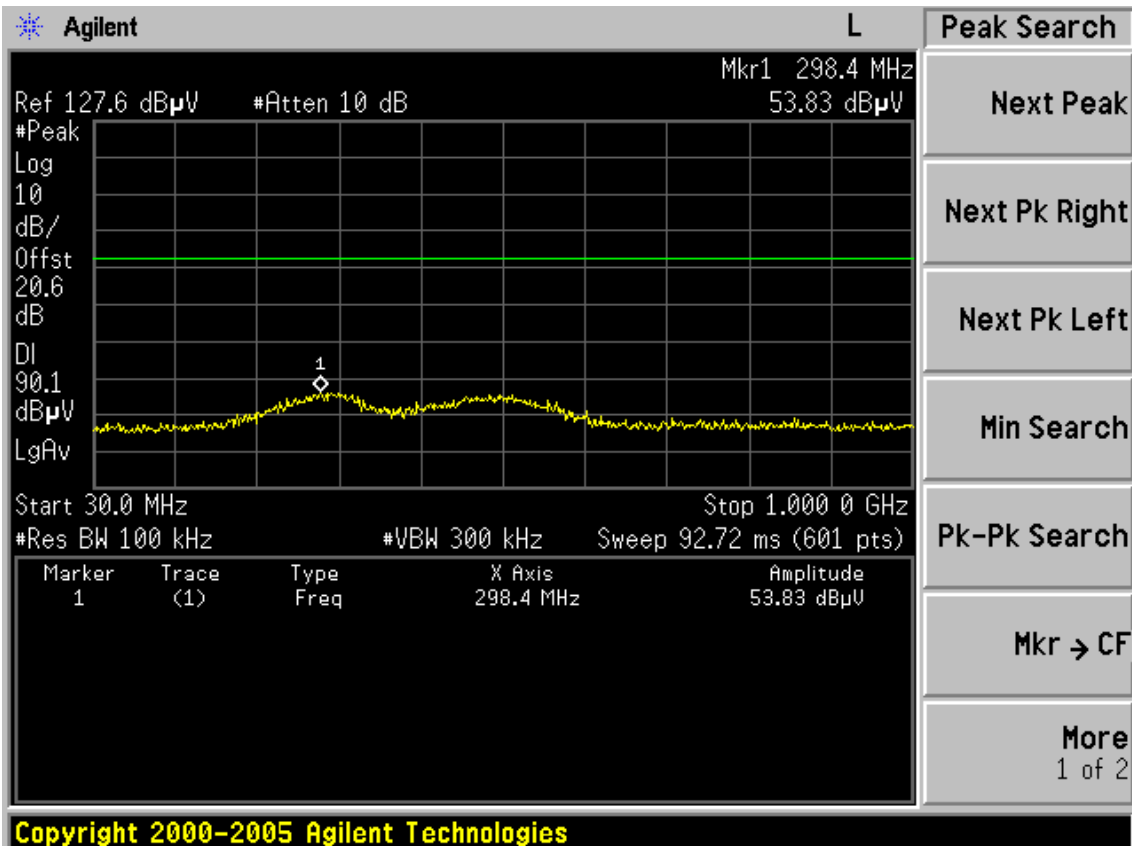
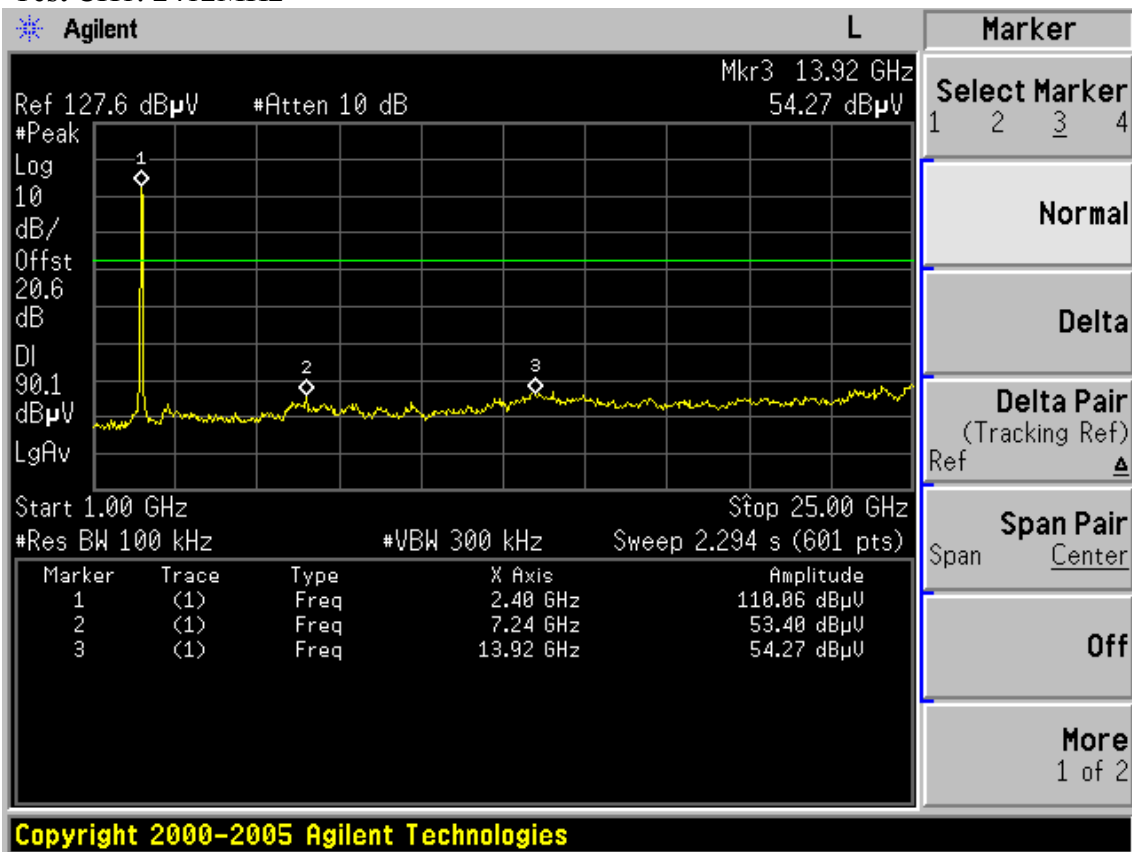


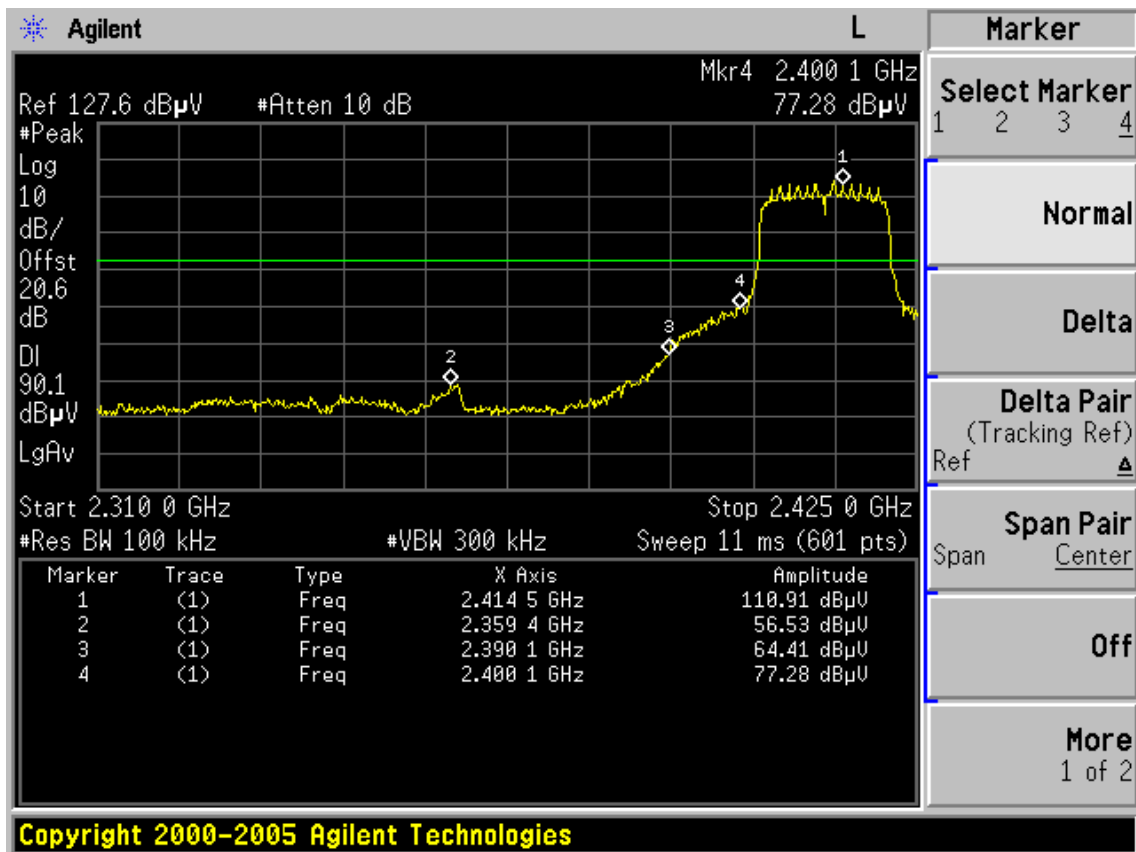
Test CH11: 2462MHz



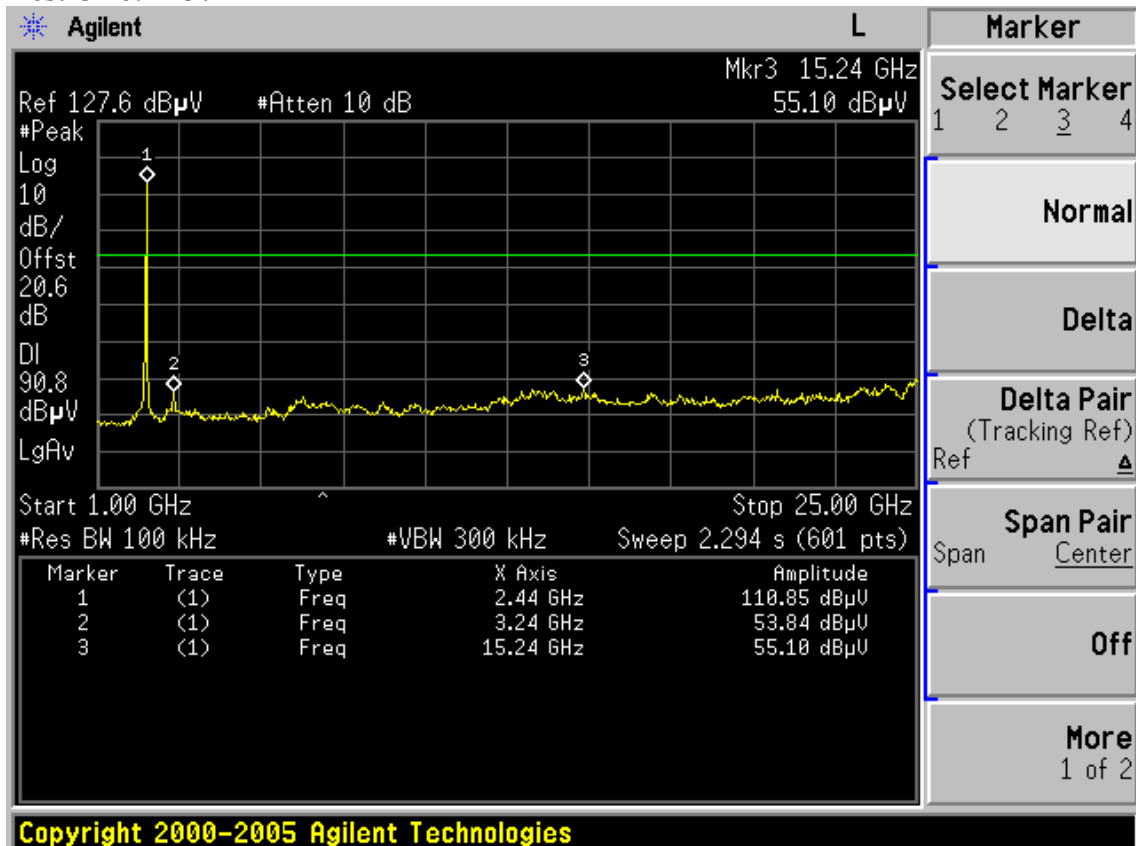


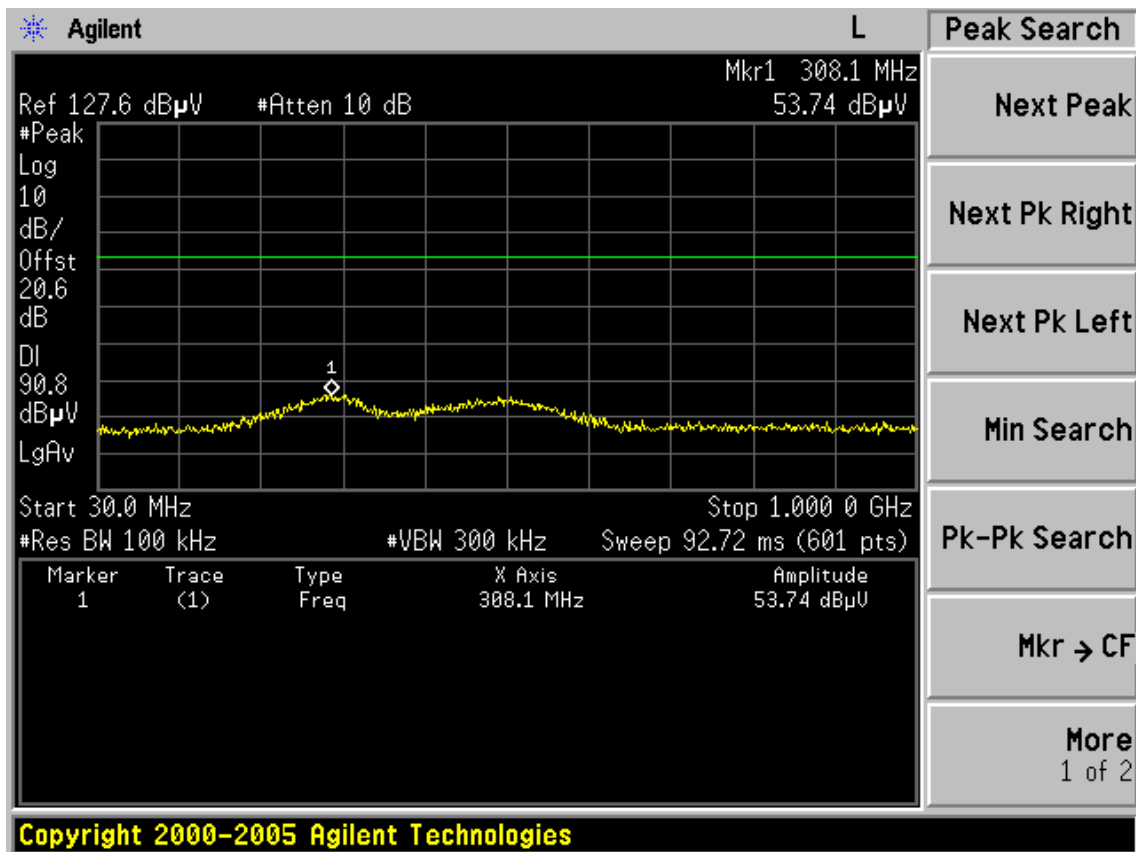
Test Mode: IEEE 802.11n HT20 TX  
 Test CH1: 2412MHz



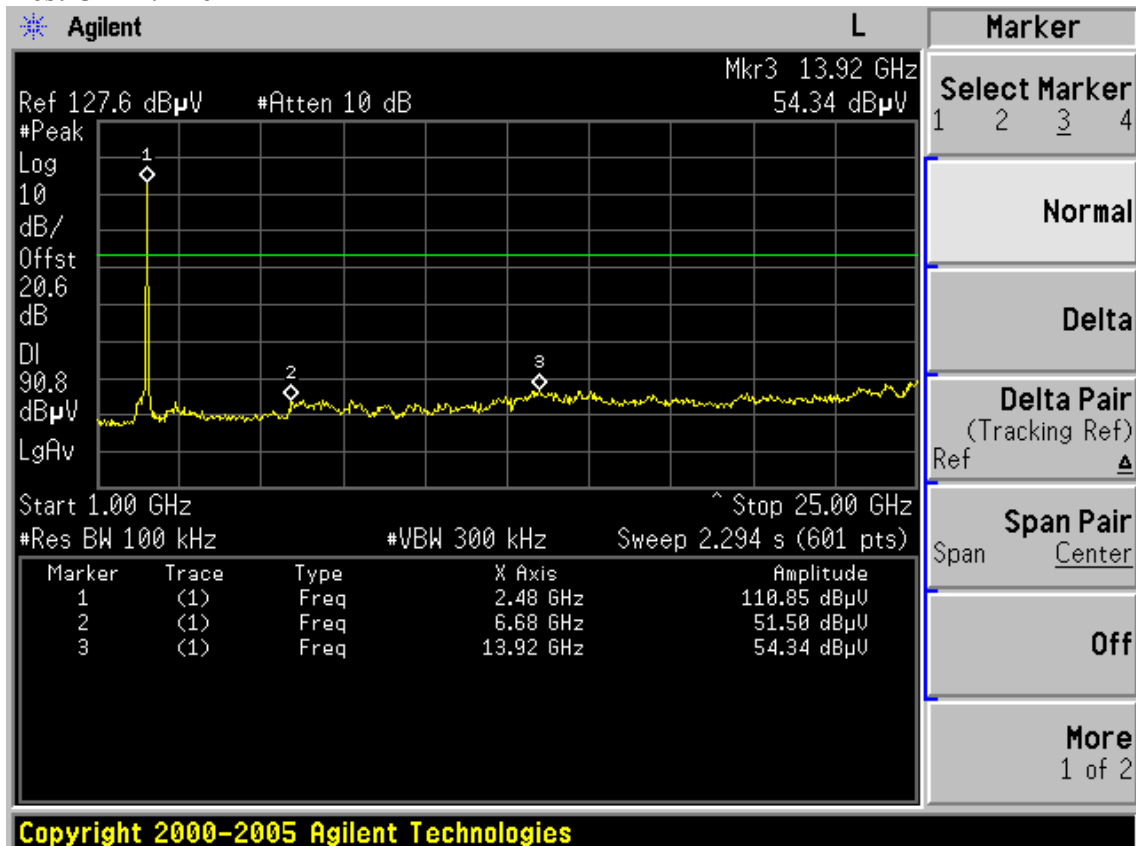


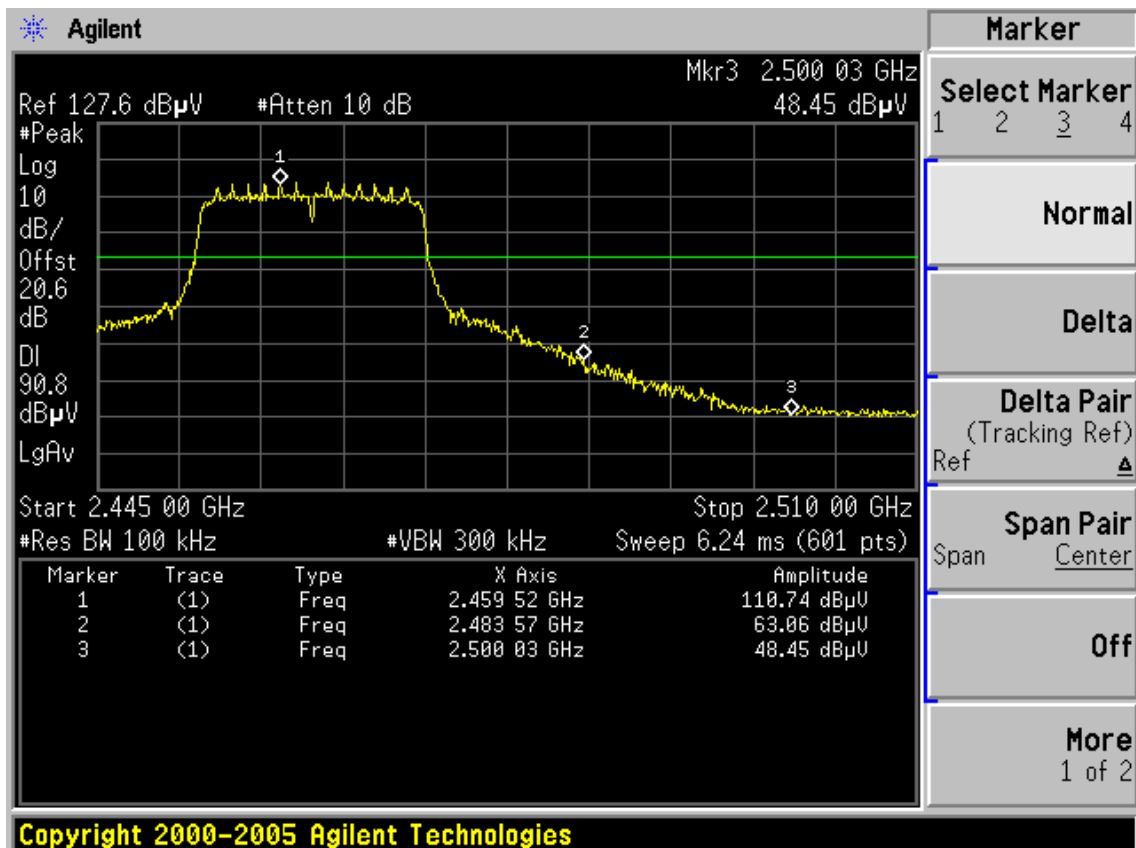
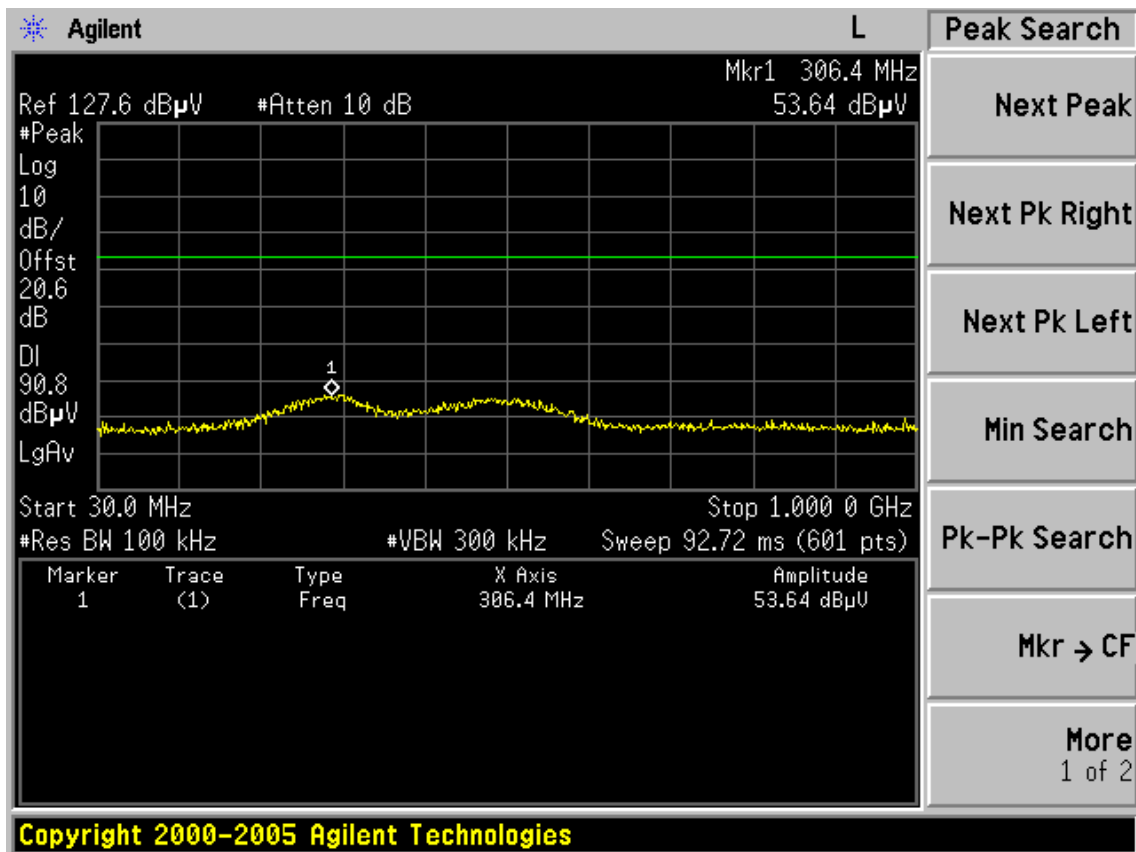
Test CH6: 2437MHz





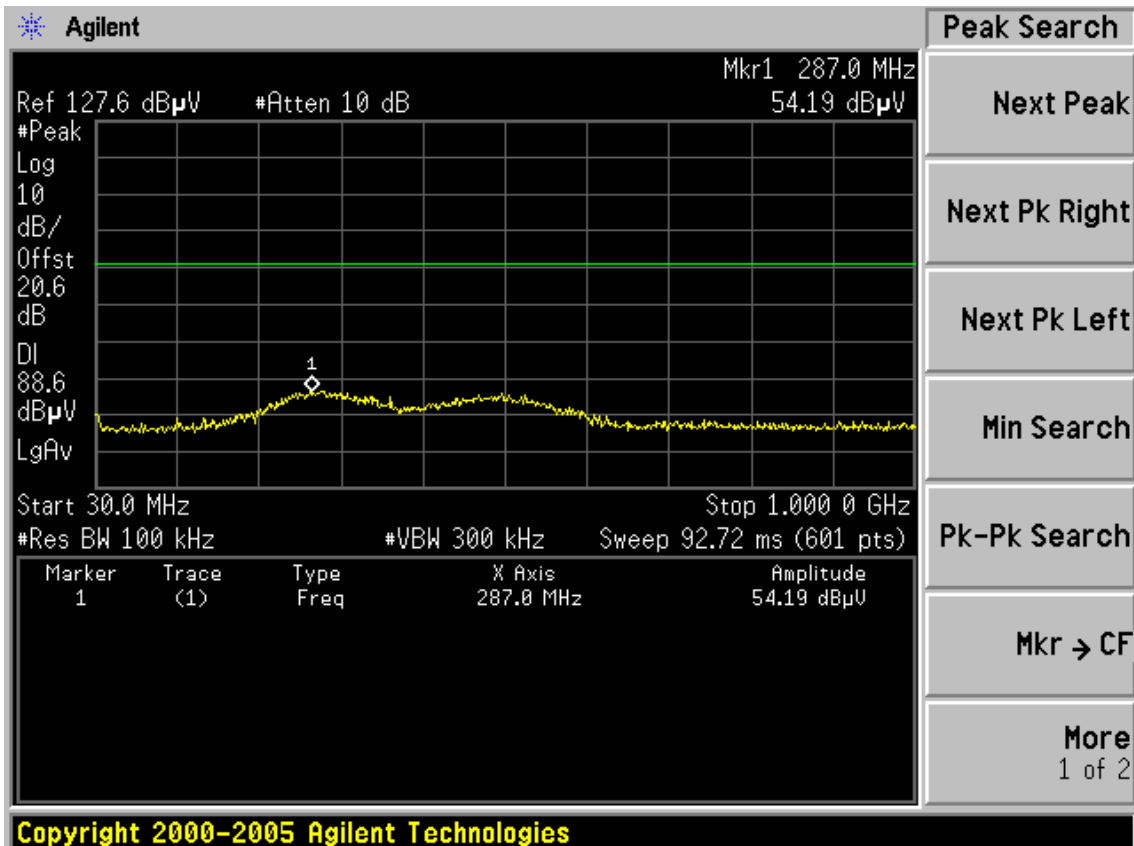
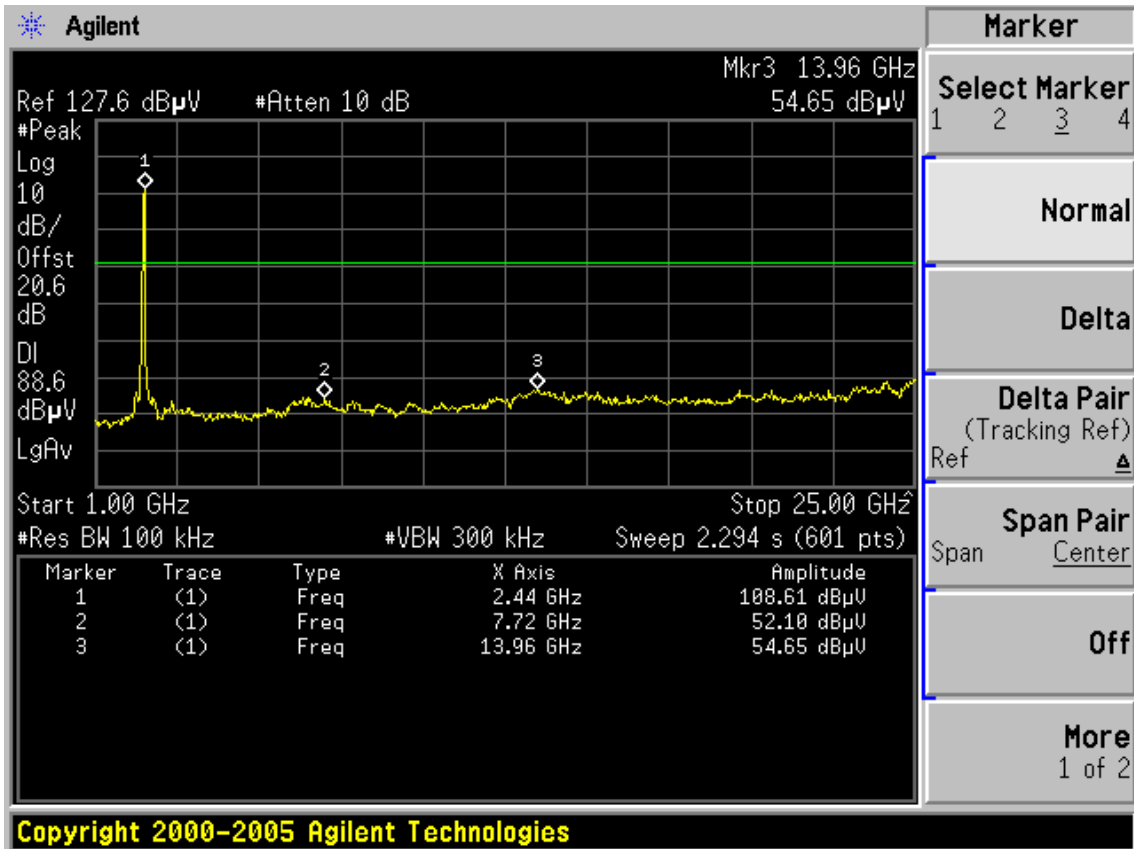
Test CH11: 2462MHz

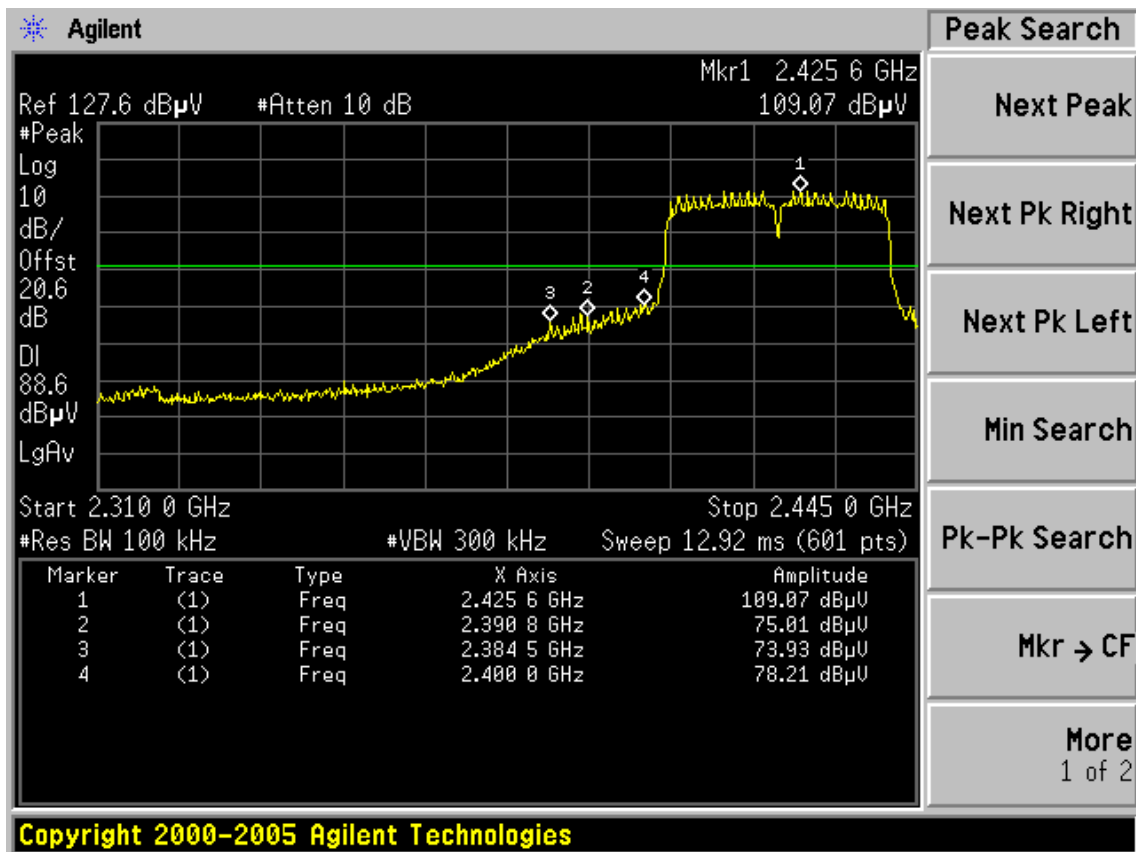




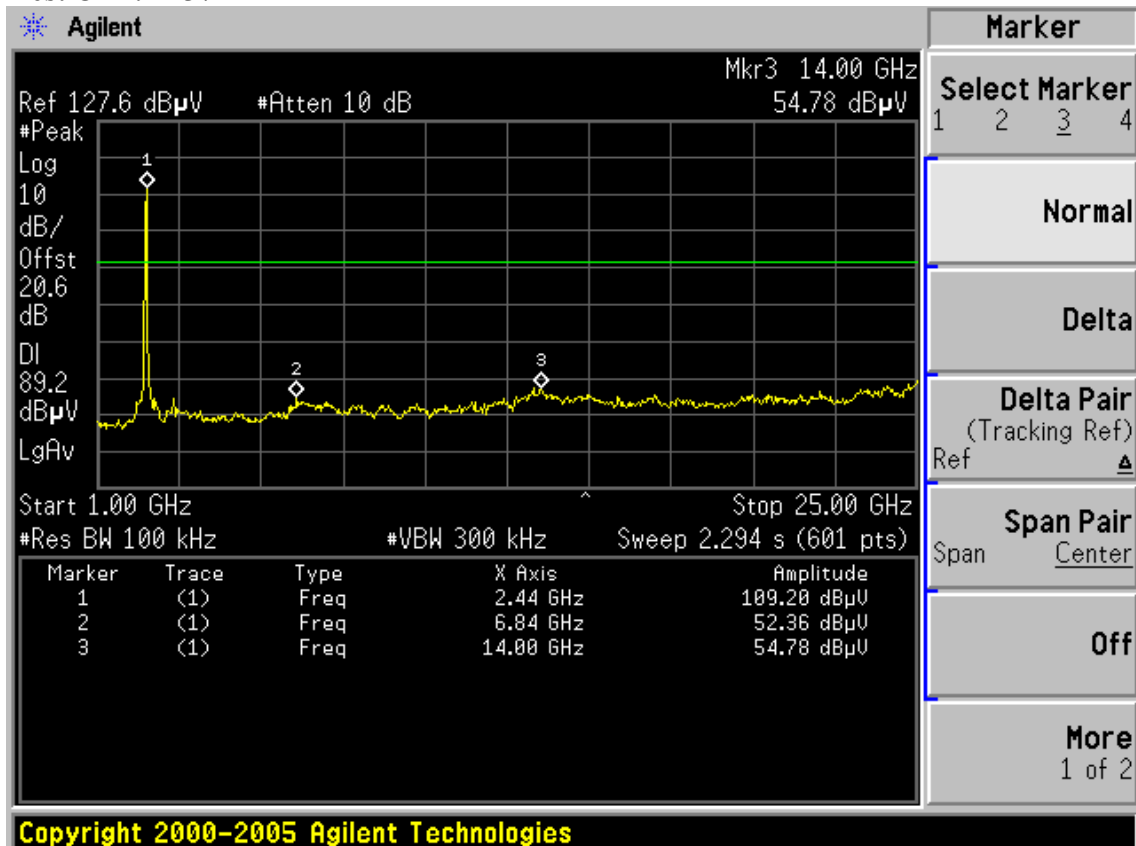


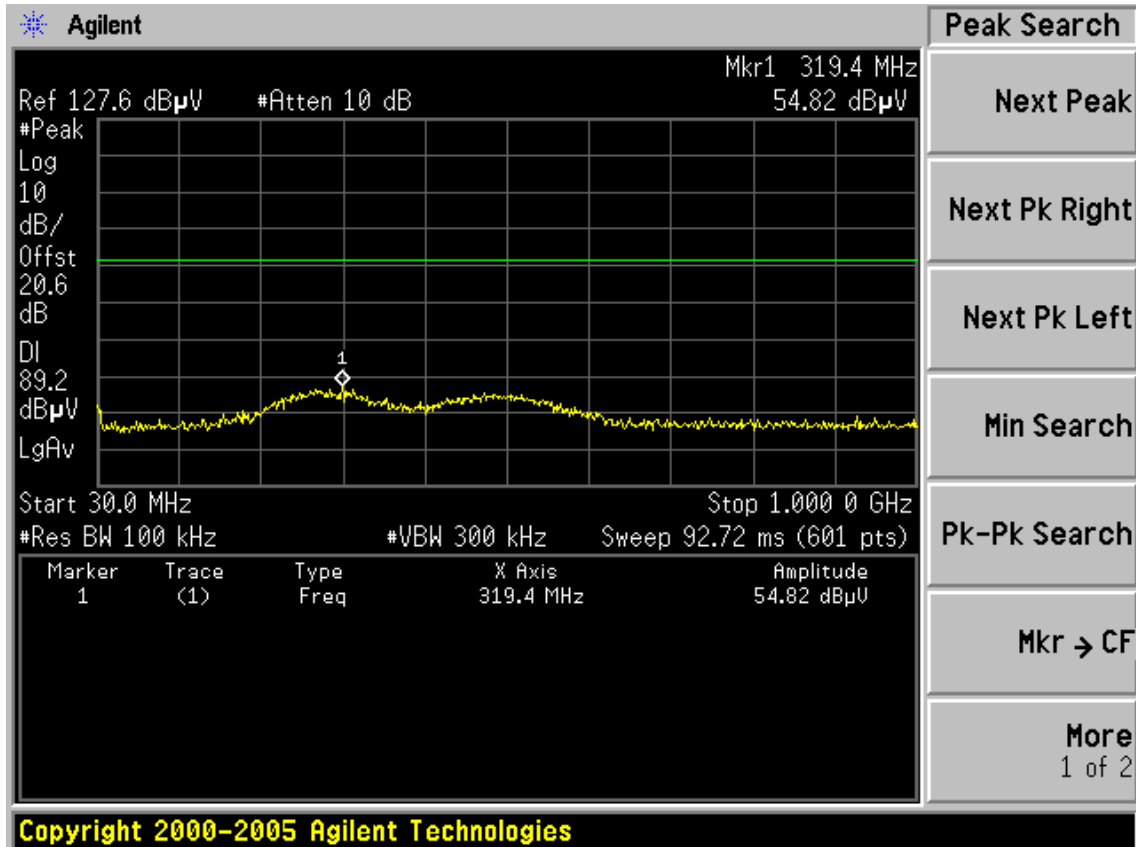
Test Mode: IEEE 802.11n HT40 TX  
 Test CH1: 2422MHz



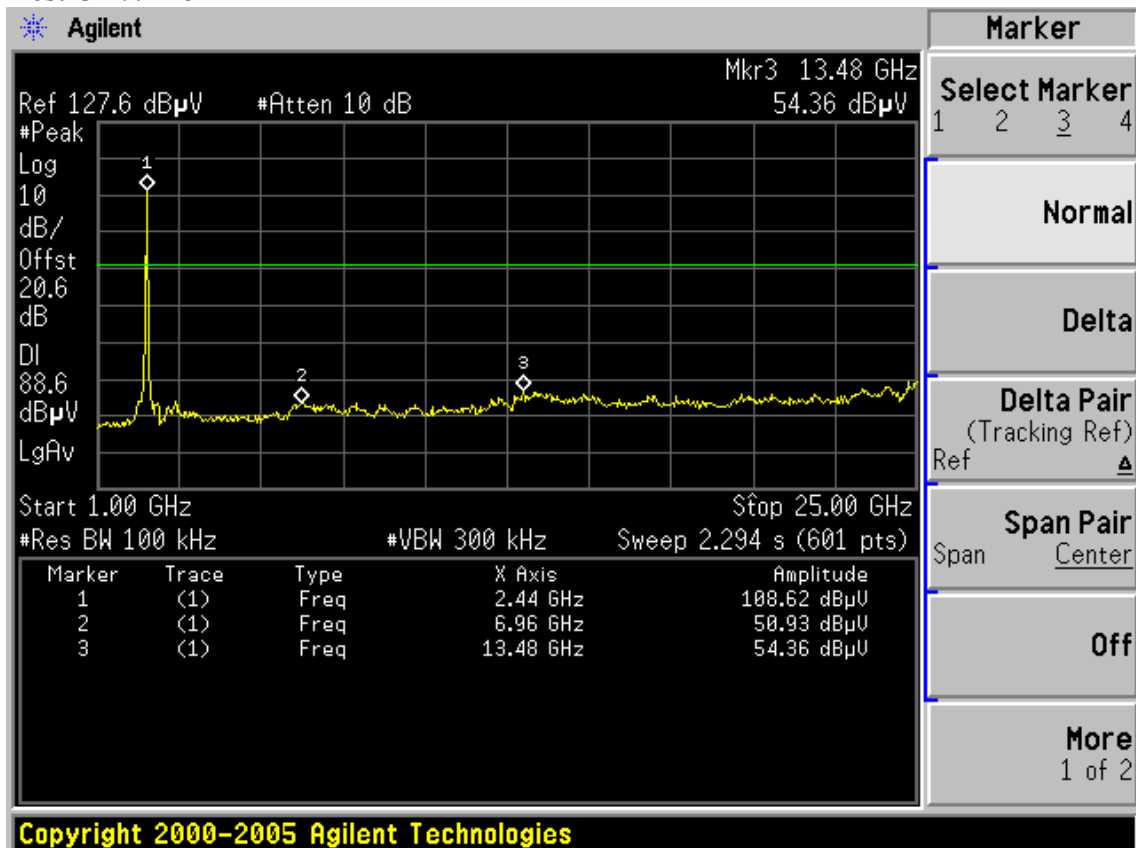


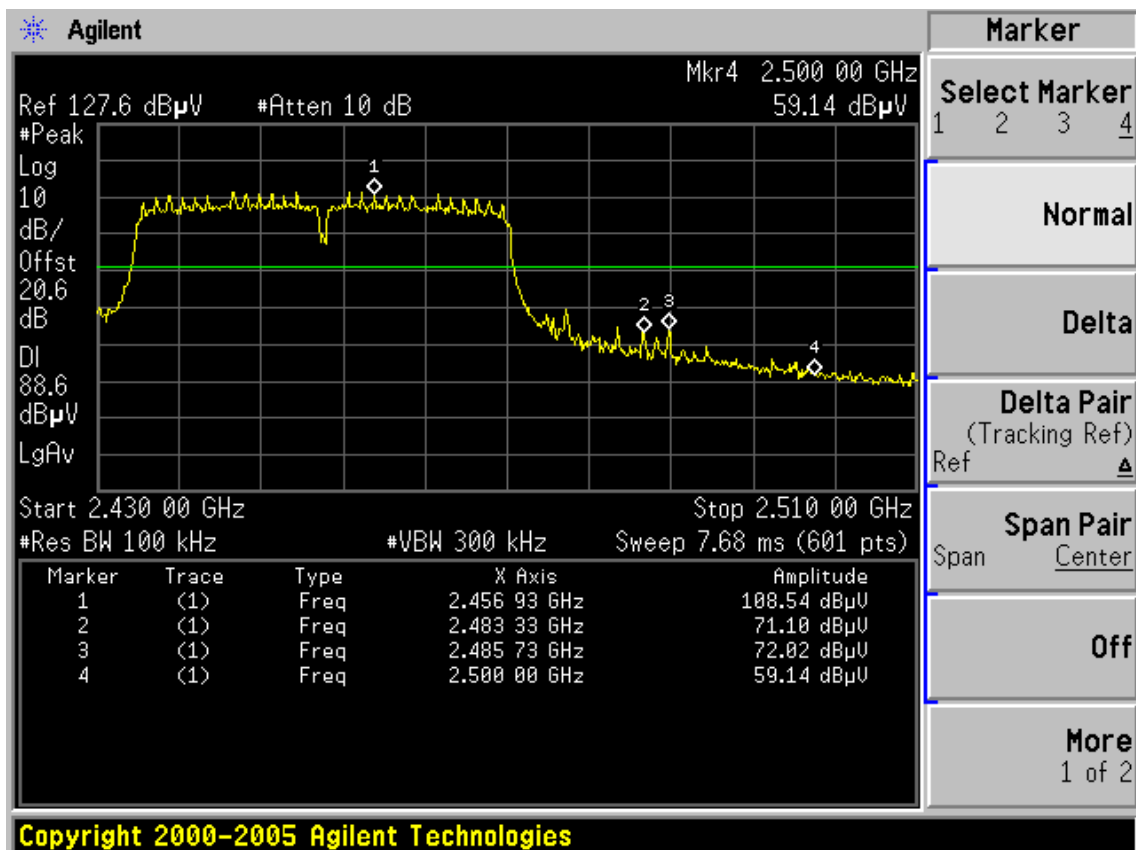
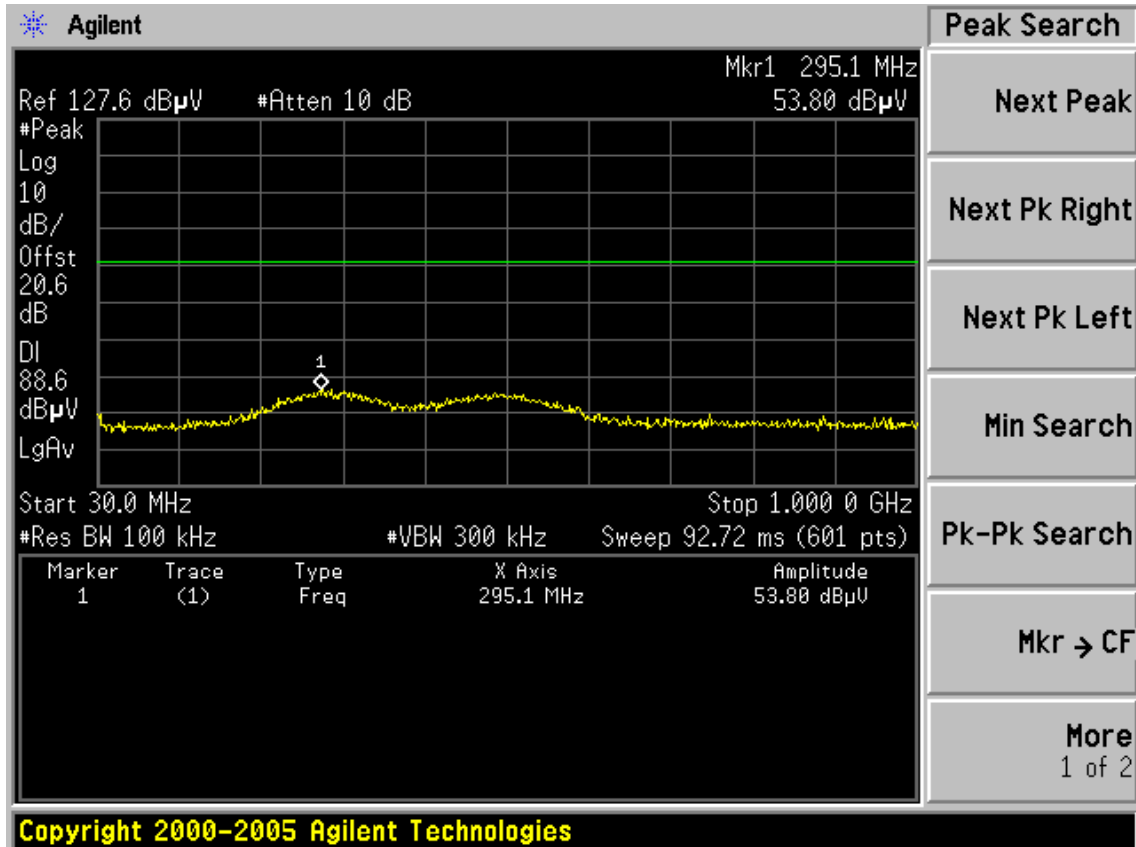
Test CH4: 2437MHz





Test CH7: 2452MHz





## 6. BAND EDGE COMPLIANCE TEST

### 6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May, 27, 08	1.5 Year
3	Amplifier	Agilent	8449B	3008A02495	Nov, 06.08	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	28620/2	May,28, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	271471/4	May,28, 08	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX 102	29086/2	May,28, 08	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 upperband-edges of the emission:
  - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
  - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

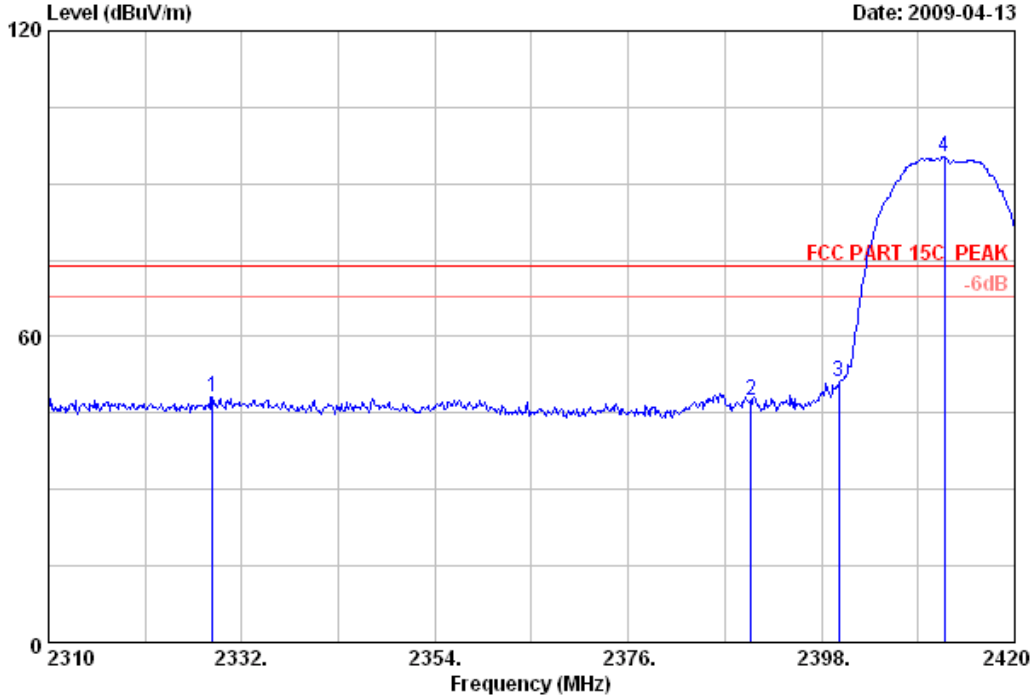
### 6.4. Test Results

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



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Postcode:518057

Data: 1 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 1  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH1 2412MHz

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	Factor	Loss	Factor	Reading	Level	(dBuV/m)	(dB)	
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)		
1	2328.700	28.36	6.65	35.13	48.32	48.20	74.00	25.80	Peak
2	2390.000	28.46	6.71	35.12	47.55	47.60	74.00	26.40	Peak
3	2400.000	28.46	6.73	35.12	51.06	51.13	74.00	22.87	Peak
4	2411.970	28.48	6.73	35.12	95.10	95.19	74.00	-21.19	Peak

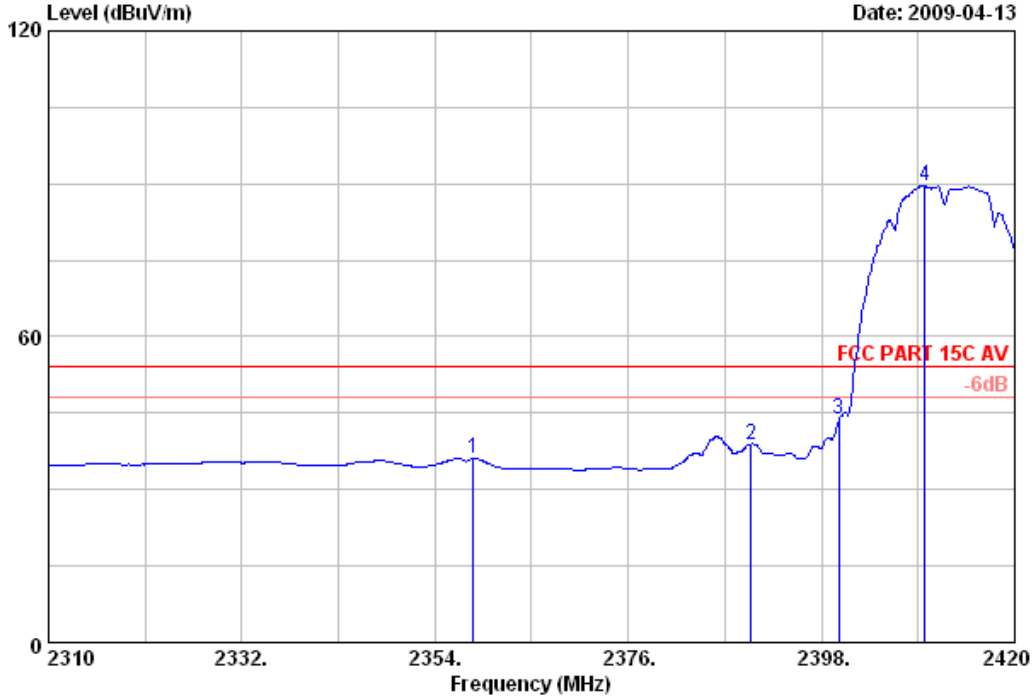
Remarks:

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



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Postcode:518057

Data: 2 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 2  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH1 2412MHz

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	Factor	Loss	Factor	Reading	Level	(dBuV/m)	(dB)	
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2358.400	28.41	6.69	35.13	36.15	36.12	54.00	17.88	Average
2	2390.000	28.46	6.71	35.12	38.85	38.90	54.00	15.10	Average
3	2400.000	28.46	6.73	35.12	43.72	43.79	54.00	10.21	Average
4	2409.770	28.48	6.73	35.12	89.47	89.56	54.00	-35.56	Average

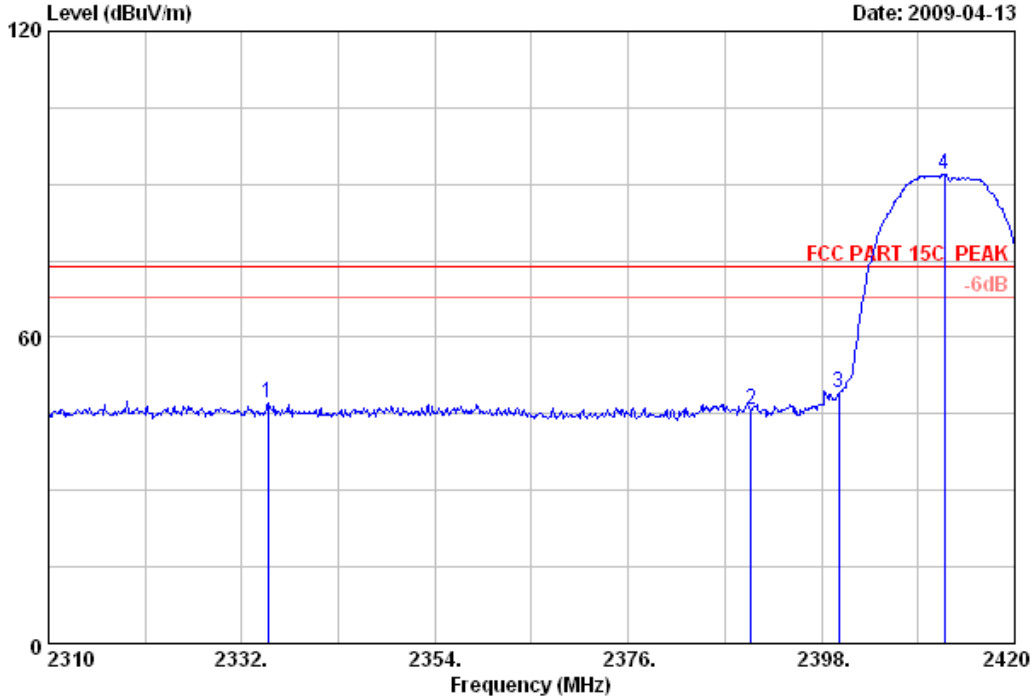
Remarks:

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



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Data: 3 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 3  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH1 2412MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2334.970	28.38	6.65	35.13	47.07	46.97	74.00	27.03	Peak
2	2390.000	28.46	6.71	35.12	45.75	45.80	74.00	28.20	Peak
3	2400.000	28.46	6.73	35.12	48.97	49.04	74.00	24.96	Peak
4	2411.970	28.48	6.73	35.12	91.85	91.94	74.00	-17.94	Peak

Remarks:

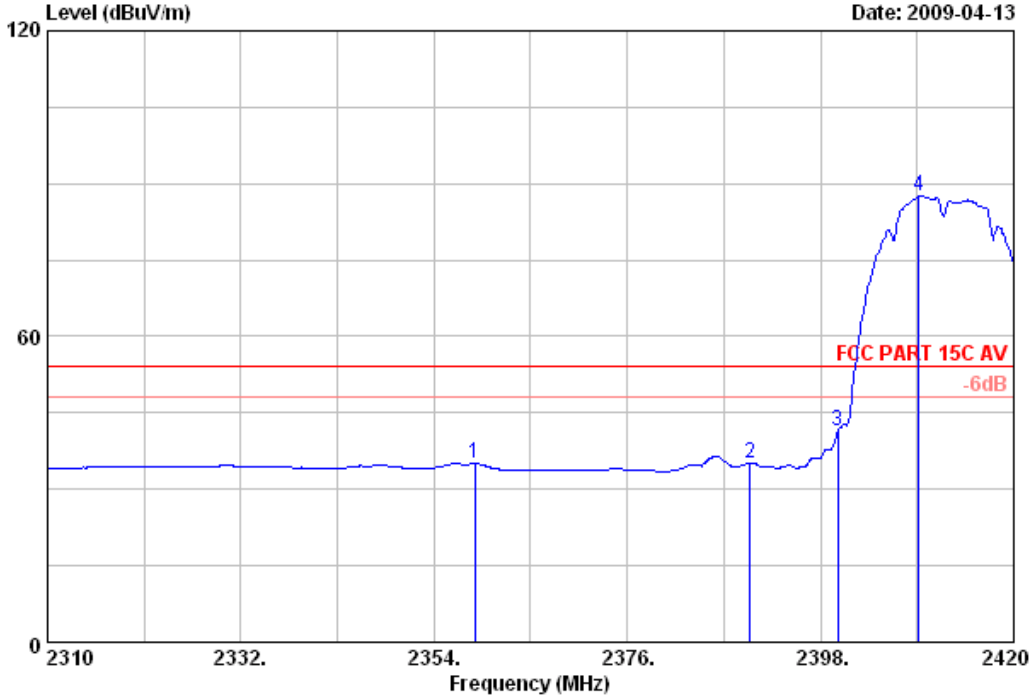
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.





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Data: 4 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 4  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH1 2412MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark	
				Reading (dBuV)	Level (dBuV/m)				
1	2358.620	28.41	6.69	35.13	35.19	35.16	54.00	18.84	Average
2	2390.000	28.46	6.71	35.12	35.20	35.25	54.00	18.75	Average
3	2400.000	28.46	6.73	35.12	41.50	41.57	54.00	12.43	Average
4	2409.220	28.48	6.73	35.12	87.50	87.59	54.00	-33.59	Average

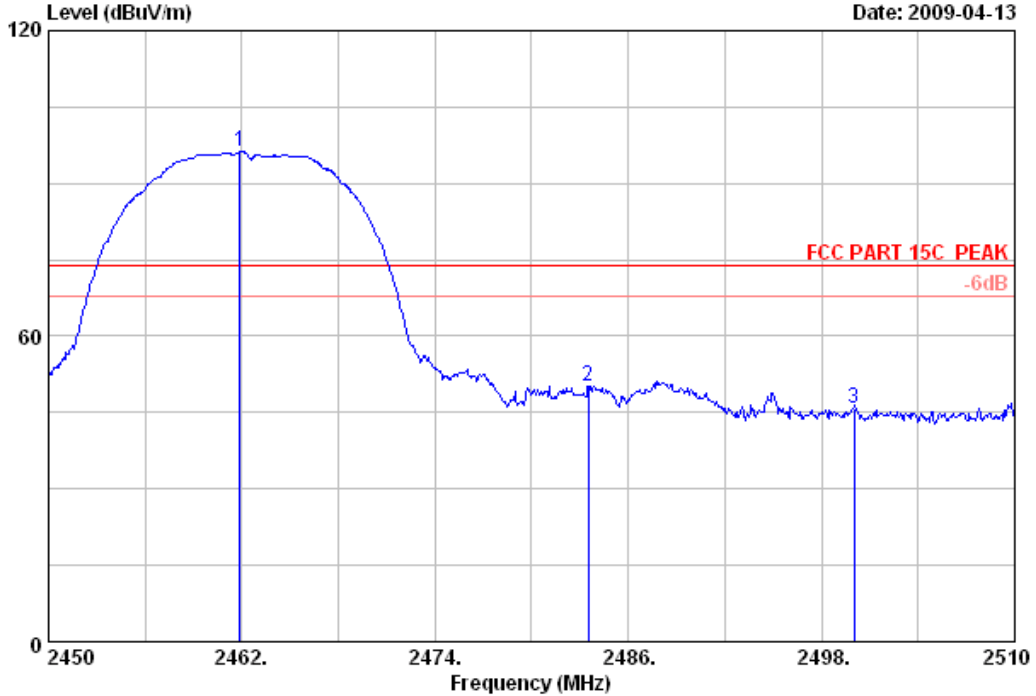
Remarks:

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



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Data: 5 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 5  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH11 2462MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 2461.880	28.55	6.84	35.11	95.98	96.26	74.00	-22.26	Peak
2 2483.500	28.58	6.87	35.10	49.74	50.09	74.00	23.91	Peak
3 2500.000	28.60	6.91	35.10	45.35	45.76	74.00	28.24	Peak

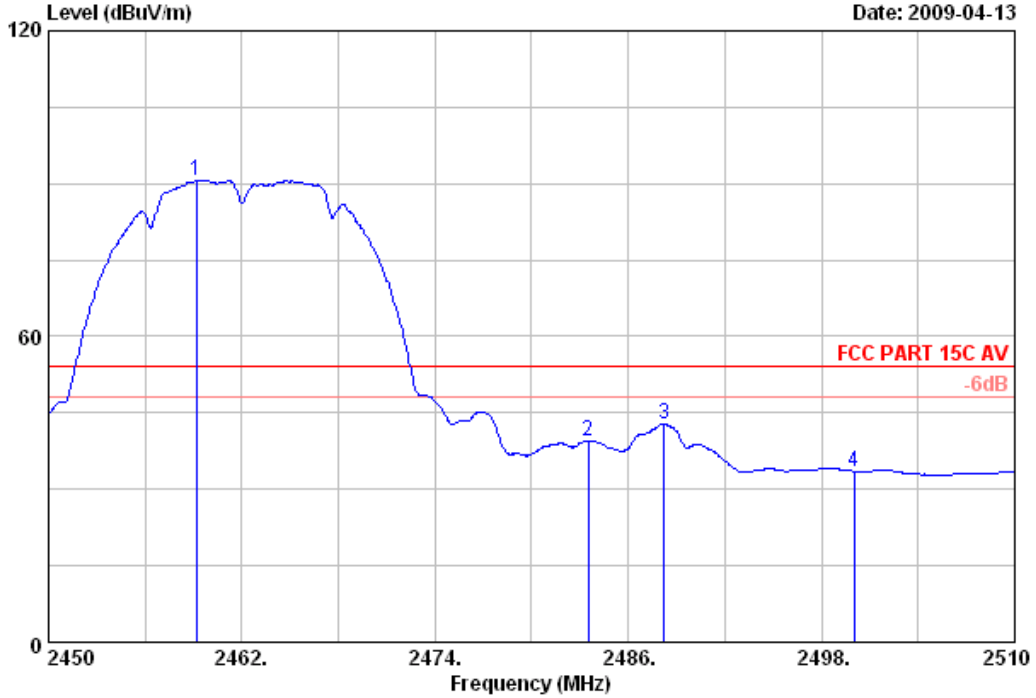
Remarks:

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



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Data: 6 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 6  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH11 2462MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 2459.180	28.55	6.84	35.11	90.45	90.73	54.00	-36.73	Average
2 2483.500	28.58	6.87	35.10	39.22	39.57	54.00	14.43	Average
3 2488.220	28.60	6.91	35.10	42.39	42.80	54.00	11.20	Average
4 2500.000	28.60	6.91	35.10	33.17	33.58	54.00	20.42	Average

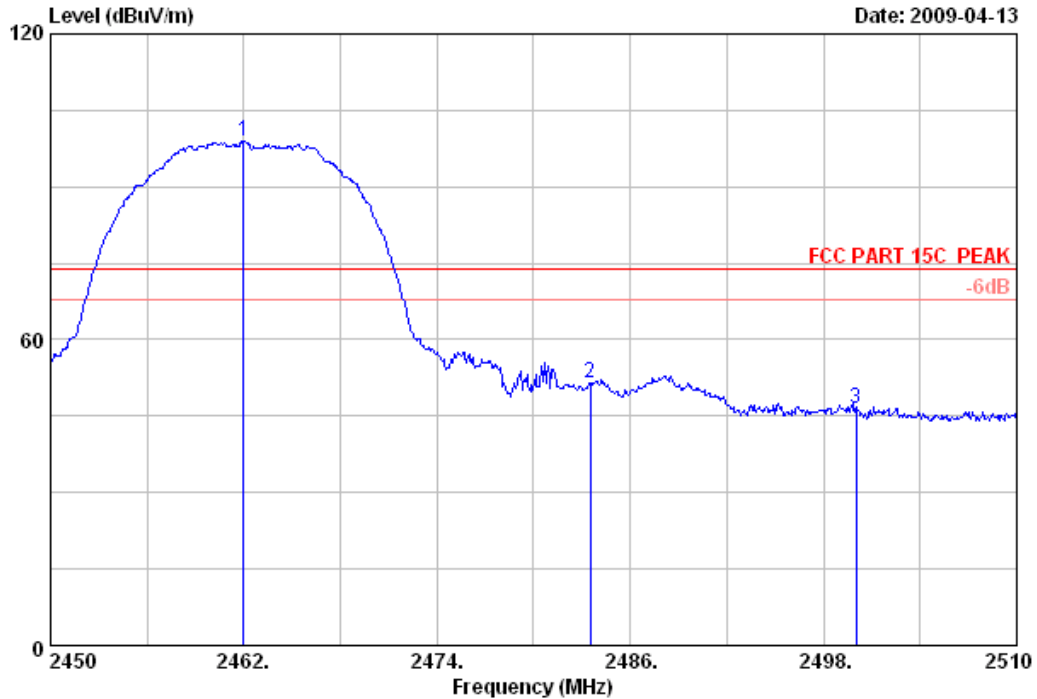
Remarks:

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



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Data: 7 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 7  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH11 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.55	6.84	35.11	98.63	98.91	74.00	-24.91	Peak
2	2483.500	28.58	6.87	35.10	51.08	51.43	74.00	22.57	Peak
3	2500.000	28.60	6.91	35.10	46.02	46.43	74.00	27.57	Peak

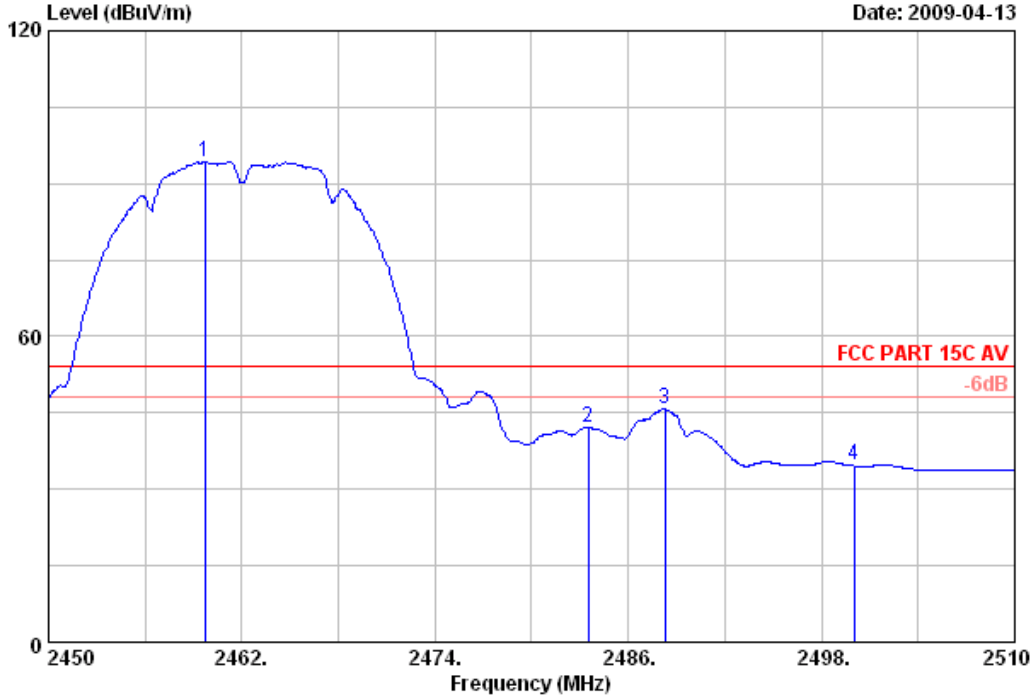
Remarks:

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



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Postcode:518057

Data: 8 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 8  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11b CH11 2462MHz

	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	2459.720	28.55	6.84	35.11	93.99	94.27	54.00	-40.27	Average
2	2483.500	28.58	6.87	35.10	41.70	42.05	54.00	11.95	Average
3	2488.280	28.60	6.91	35.10	45.31	45.72	54.00	8.28	Average
4	2500.000	28.60	6.91	35.10	34.19	34.60	54.00	19.40	Average

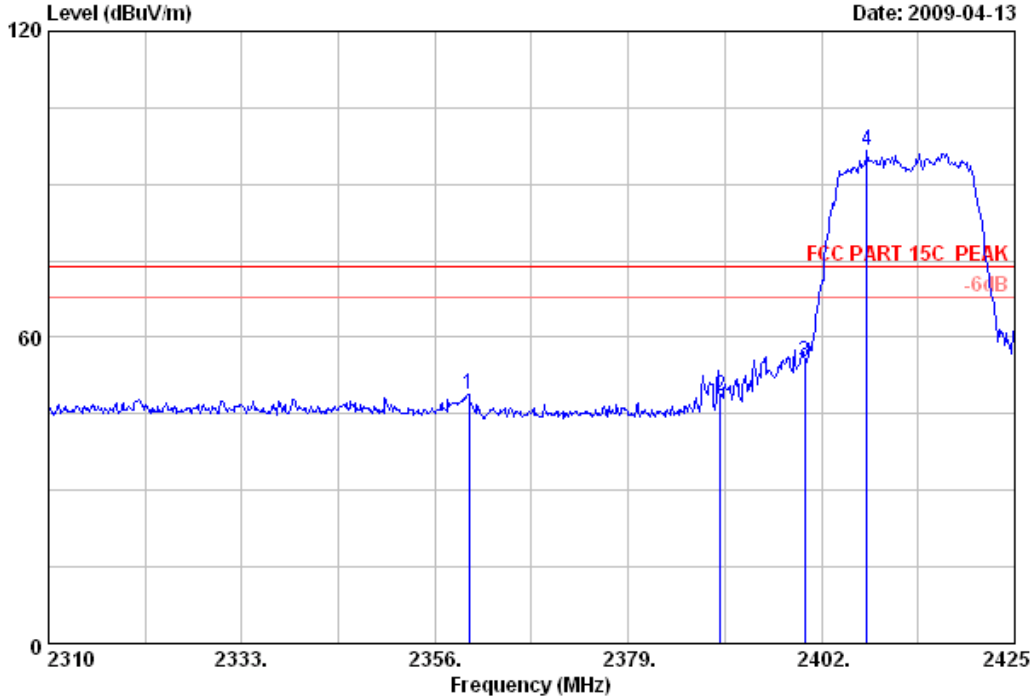
Remarks:

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



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Data: 9 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 9  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH1 2412MHz

	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2360.025	28.41	6.69	35.13	48.97	48.94	74.00	25.06	Peak
2	2390.000	28.46	6.71	35.12	48.35	48.40	74.00	25.60	Peak
3	2400.000	28.46	6.73	35.12	55.22	55.29	74.00	18.71	Peak
4	2407.405	28.48	6.73	35.12	96.65	96.74	74.00	-22.74	Peak

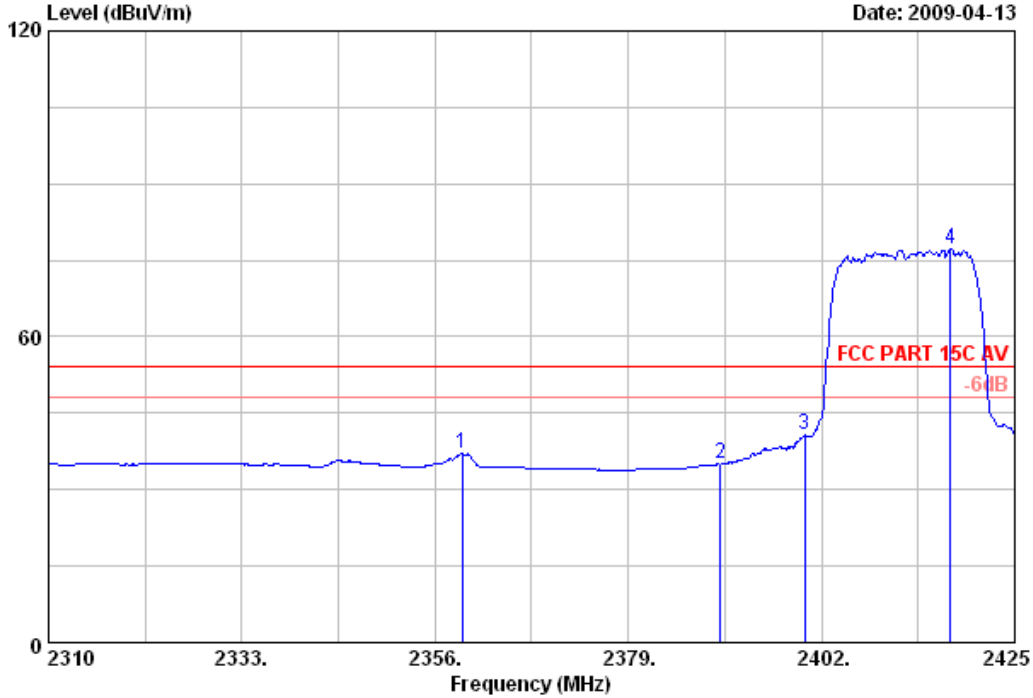
Remarks:

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



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Data: 10 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 10  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH1 2412MHz

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	Reading	Level	(dBuV/m)	(dB)	
					(dBuV)	(dBuV/m)			
1	2359.220	28.41	6.69	35.13	37.14	37.11	54.00	16.89	Average
2	2390.000	28.46	6.71	35.12	34.94	34.99	54.00	19.01	Average
3	2400.000	28.46	6.73	35.12	40.60	40.67	54.00	13.33	Average
4	2417.295	28.48	6.77	35.11	77.19	77.33	54.00	-23.33	Average

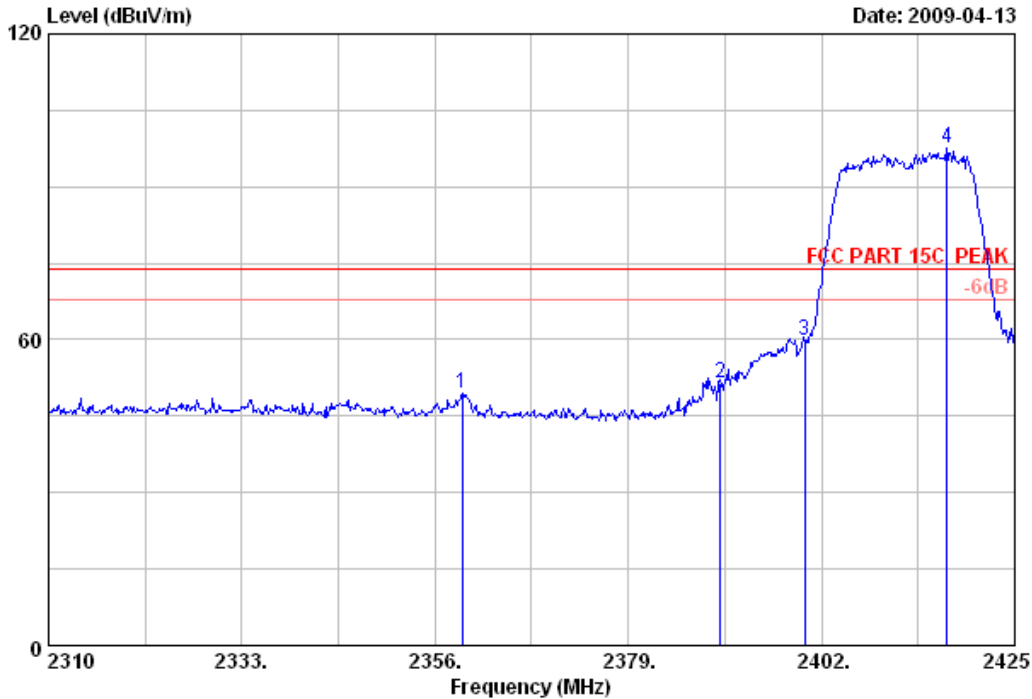
Remarks:

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



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Data: 11 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 11  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH1 2412MHz

	Freq.	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2359.220	28.41	6.69	35.13	49.55	49.52	74.00	24.48	Peak
2	2390.000	28.46	6.71	35.12	51.48	51.53	74.00	22.47	Peak
3	2400.000	28.46	6.73	35.12	59.91	59.98	74.00	14.02	Peak
4	2416.950	28.48	6.77	35.11	97.30	97.44	74.00	-23.44	Peak

Remarks:

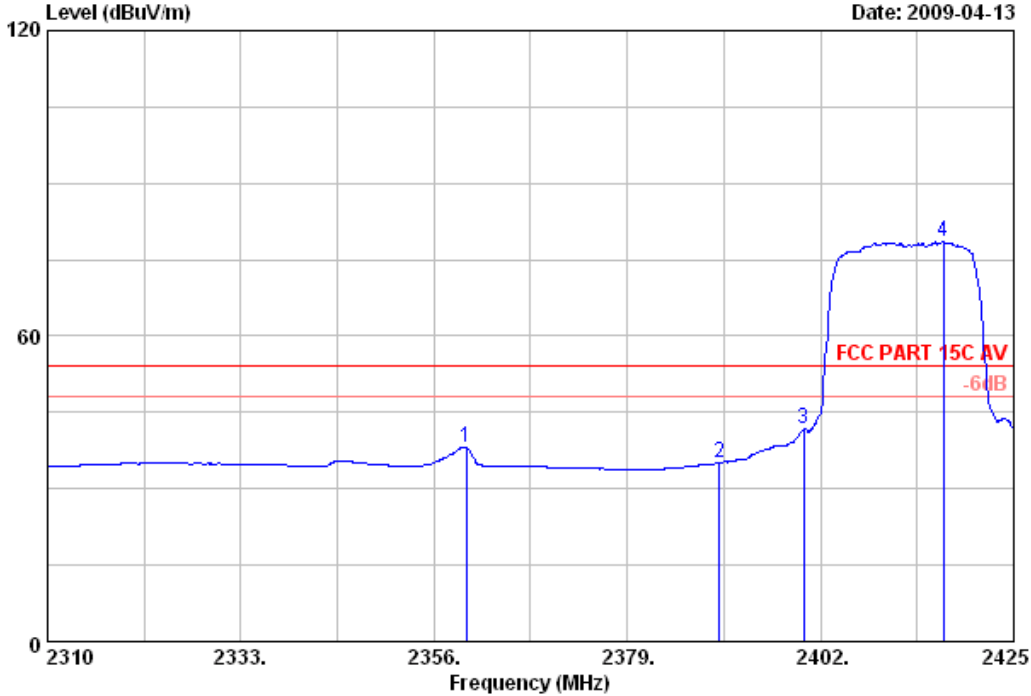
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.





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Data: 12 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 12  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH1 2412MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 2359.795	28.41	6.69	35.13	38.14	38.11	54.00	15.89	Average
2 2390.000	28.46	6.71	35.12	35.10	35.15	54.00	18.85	Average
3 2400.000	28.46	6.73	35.12	41.60	41.67	54.00	12.33	Average
4 2416.605	28.48	6.77	35.11	78.33	78.47	54.00	-24.47	Average

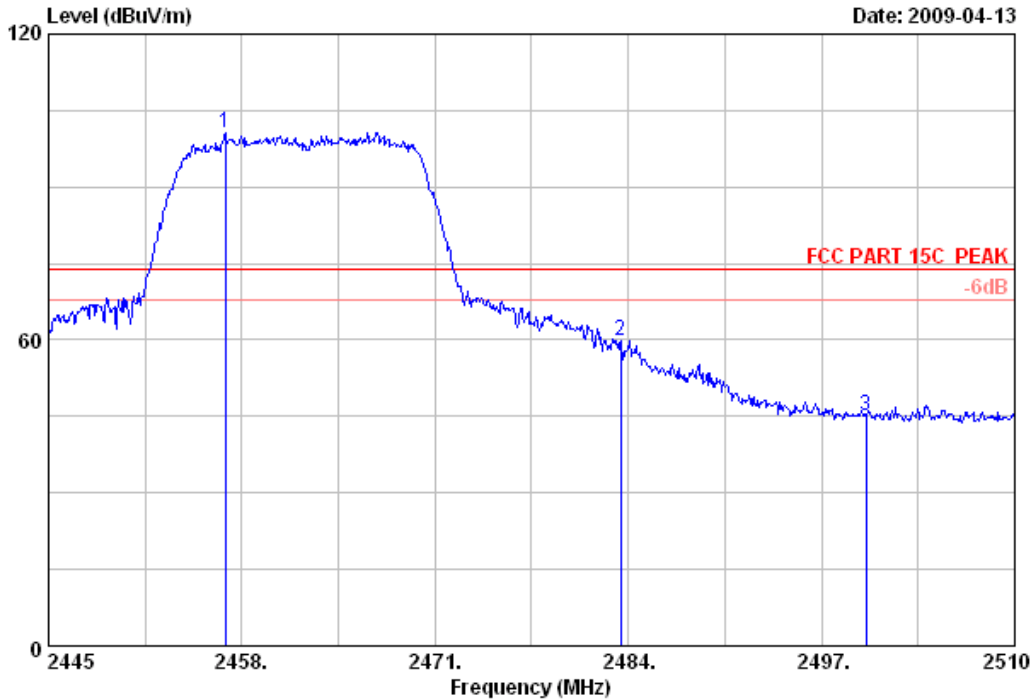
Remarks:

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



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Data: 13 File: E:\2009 report data\D\LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 13  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH11 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2456.895	28.55	6.84	35.11	100.48	100.76	74.00	-26.76	Peak
2	2483.500	28.58	6.87	35.10	59.54	59.89	74.00	14.11	Peak
3	2500.000	28.60	6.91	35.10	44.85	45.26	74.00	28.74	Peak

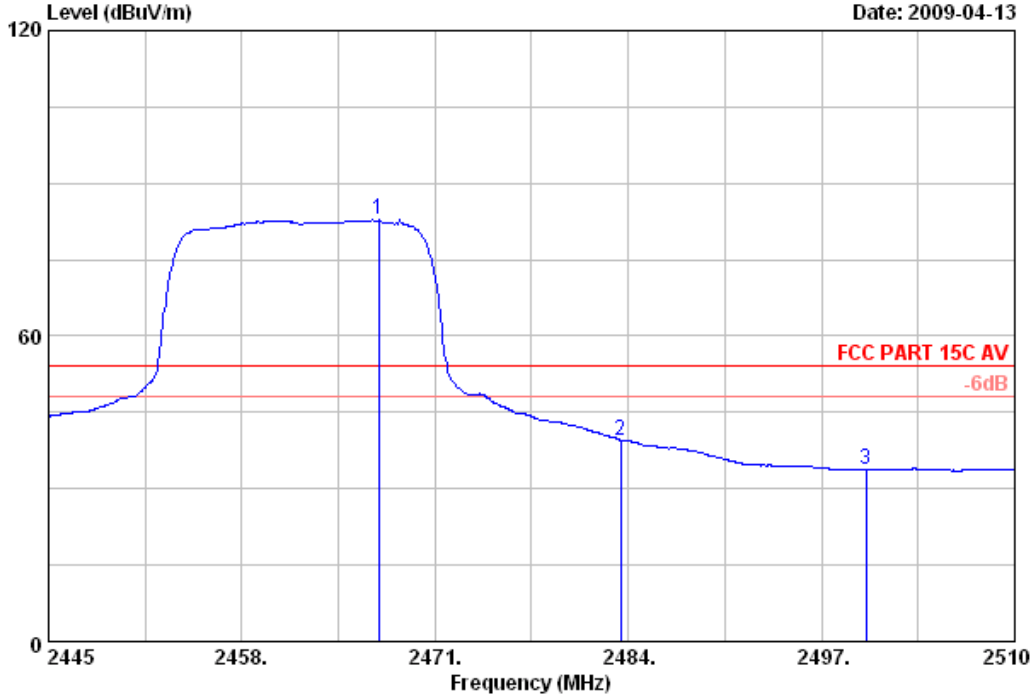
Remarks:

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



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Data: 14 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 14  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH11 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	2467.230	28.55	6.84	35.10	82.56	82.85	54.00	-28.85	Average
2	2483.500	28.58	6.87	35.10	39.15	39.50	54.00	14.50	Average
3	2500.000	28.60	6.91	35.10	33.28	33.69	54.00	20.31	Average

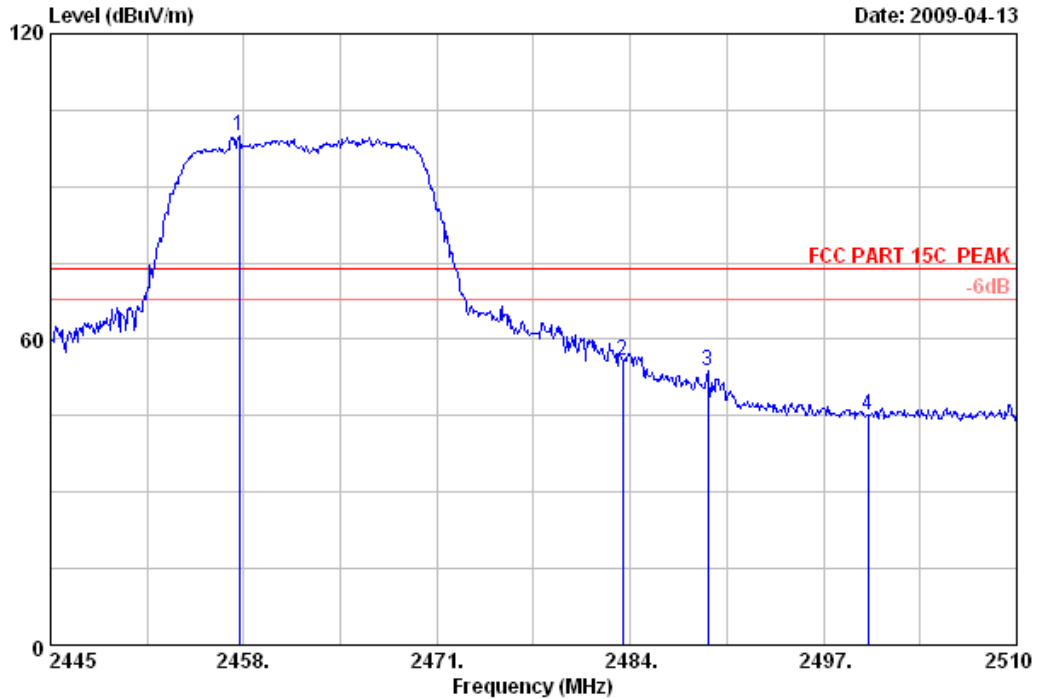
Remarks:

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



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Data: 15 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 15  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH11 2462MHz

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	Factor	Loss	Factor	Reading	Level	(dBuV/m)	(dB)	
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)		
1	2457.675	28.55	6.84	35.11	99.50	99.78	74.00	-25.78	Peak
2	2483.500	28.58	6.87	35.10	55.52	55.87	74.00	18.13	Peak
3	2489.200	28.60	6.91	35.10	53.34	53.75	74.00	20.25	Peak
4	2500.000	28.60	6.91	35.10	44.58	44.99	74.00	29.01	Peak

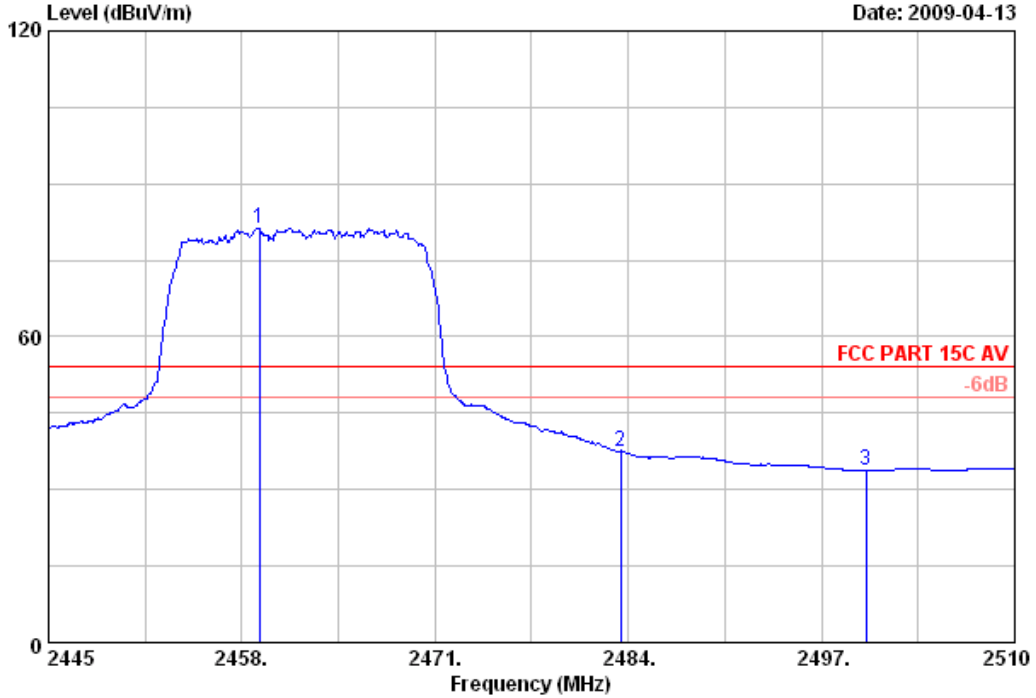
Remarks:

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



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Data: 16 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 16  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11g CH11 2462MHz

	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	2459.170	28.55	6.84	35.11	81.03	81.31	54.00	-27.31	Average
2	2483.500	28.58	6.87	35.10	37.09	37.44	54.00	16.56	Average
3	2500.000	28.60	6.91	35.10	33.38	33.79	54.00	20.21	Average

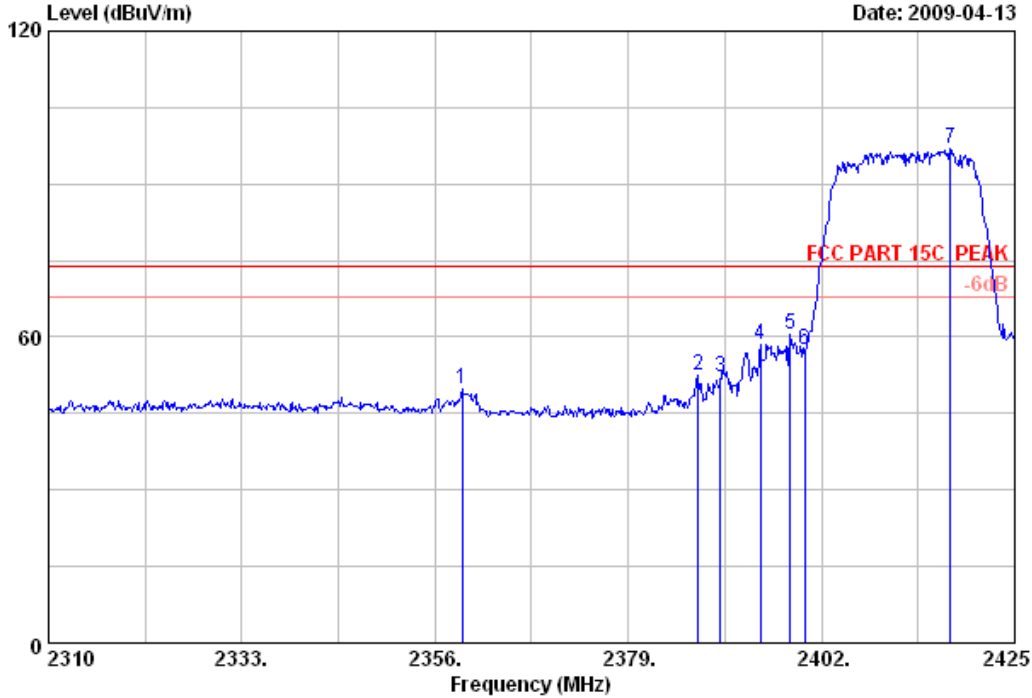
Remarks:

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



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Data: 17 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 17  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH1 2412MHz

Peak	Freq. (MHz)	Antenna			Emission		Limits (dBuV/m)	Margin (dB)	Remark
		Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Level (dBuV/m)			
1	2359.220	28.41	6.69	35.13	49.83	49.80	74.00	24.20	Peak
2	2387.280	28.46	6.71	35.12	52.40	52.45	74.00	21.55	Peak
3	2390.000	28.46	6.71	35.12	52.03	52.08	74.00	21.92	Peak
4	2394.755	28.46	6.73	35.12	58.55	58.62	74.00	15.38	Peak
5	2398.320	28.46	6.73	35.12	60.49	60.56	74.00	13.44	Peak
6	2400.000	28.46	6.73	35.12	57.42	57.49	74.00	16.51	Peak
7	2417.295	28.48	6.77	35.11	96.78	96.92	74.00	-22.92	Peak

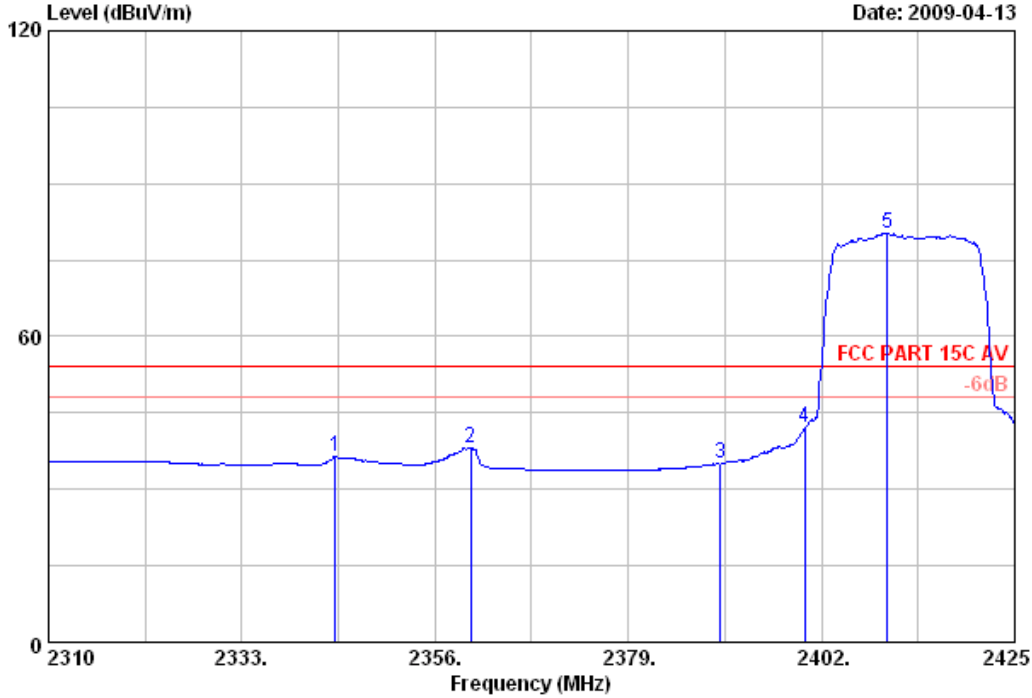
Remarks:

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



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Data: 18 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 18  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH1 2412MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 2344.155	28.38	6.67	35.13	36.36	36.28	54.00	17.72	Average
2 2360.255	28.41	6.69	35.13	38.21	38.18	54.00	15.82	Average
3 2390.000	28.46	6.71	35.12	34.91	34.96	54.00	19.04	Average
4 2400.000	28.46	6.73	35.12	42.21	42.28	54.00	11.72	Average
5 2409.820	28.48	6.73	35.12	80.12	80.21	54.00	-26.21	Average

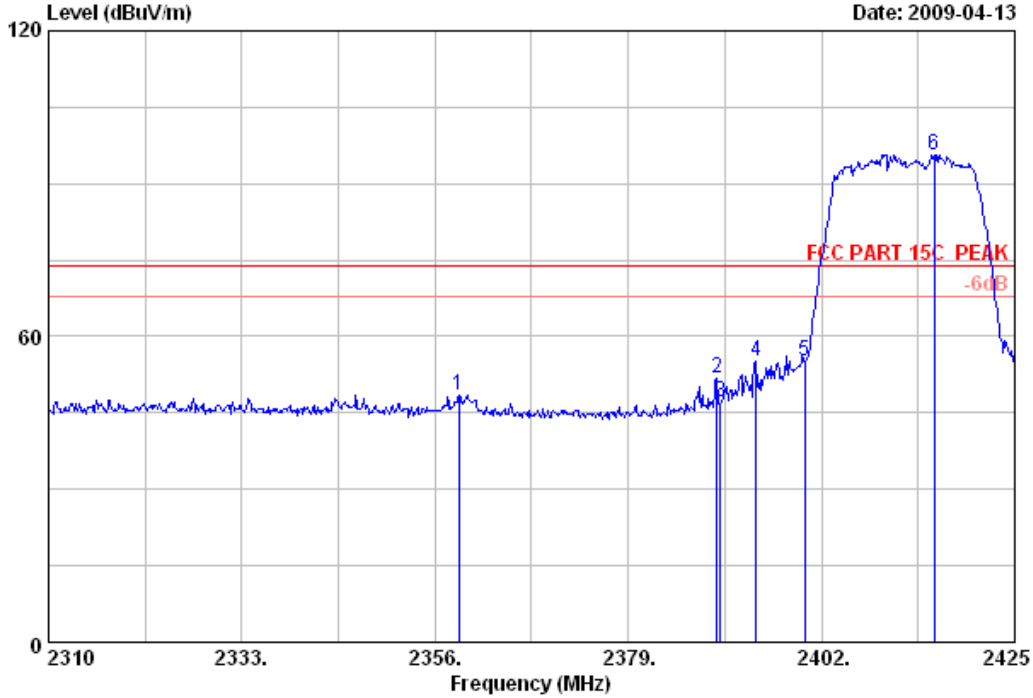
Remarks:

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



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Data: 19 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 19  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH1 2412MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading Level (dBuV)	Level (dBuV/m)			
1	28.41	6.69	35.13	48.65	48.62	74.00	25.38	Peak
2	28.46	6.71	35.12	51.75	51.80	74.00	22.20	Peak
3	28.46	6.71	35.12	46.94	46.99	74.00	27.01	Peak
4	28.46	6.73	35.12	55.10	55.17	74.00	18.83	Peak
5	28.46	6.73	35.12	54.93	55.00	74.00	19.00	Peak
6	28.48	6.77	35.11	95.62	95.76	74.00	-21.76	Peak

Remarks:

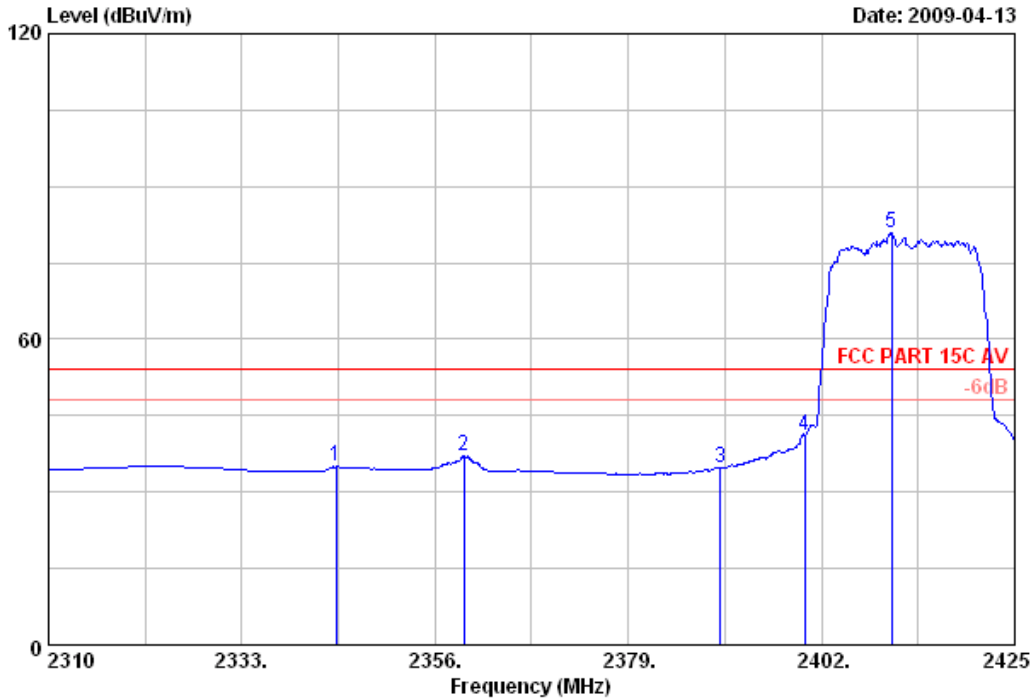
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.





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Data: 20 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 20  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH1 2412MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 2344.270	28.38	6.67	35.13	35.07	34.99	54.00	19.01	Average
2 2359.450	28.41	6.69	35.13	37.10	37.07	54.00	16.93	Average
3 2390.000	28.46	6.71	35.12	34.66	34.71	54.00	19.29	Average
4 2400.000	28.46	6.73	35.12	40.98	41.05	54.00	12.95	Average
5 2410.395	28.48	6.73	35.12	80.76	80.85	54.00	-26.85	Average

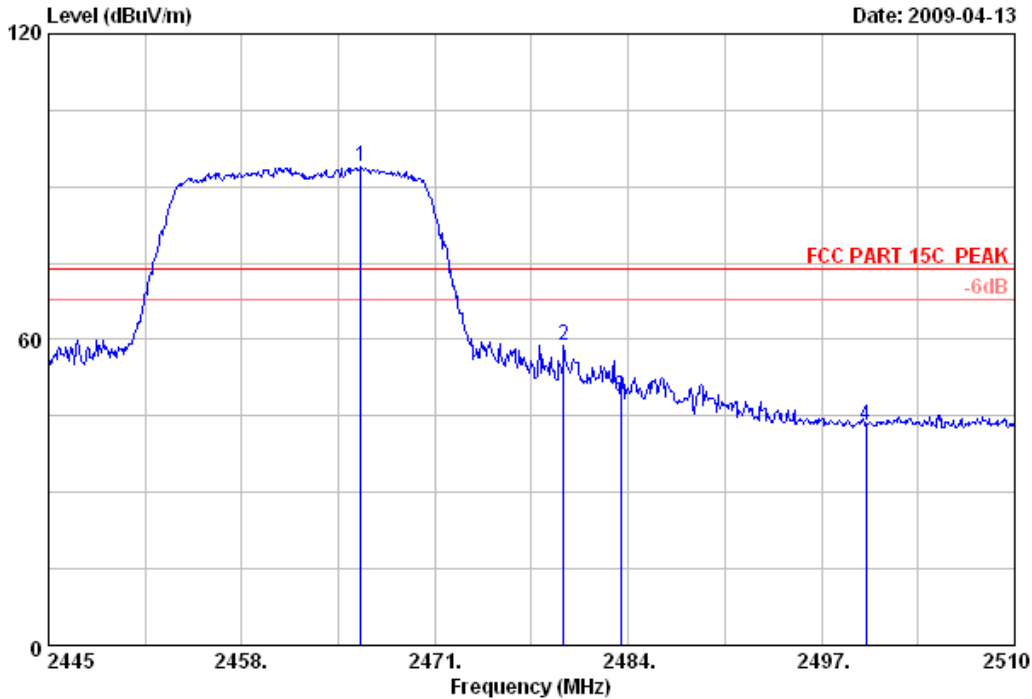
Remarks:

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



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Data: 21 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 21  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH11 2462MHz

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	Factor	Loss	Factor	Reading	Level	(dBuV/m)	(dB)	
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)		
1	2465.995	28.55	6.84	35.11	93.51	93.79	74.00	-19.79	Peak
2	2479.645	28.58	6.87	35.10	58.53	58.88	74.00	15.12	Peak
3	2483.500	28.58	6.87	35.10	48.42	48.77	74.00	25.23	Peak
4	2500.000	28.60	6.91	35.10	42.77	43.18	74.00	30.82	Peak

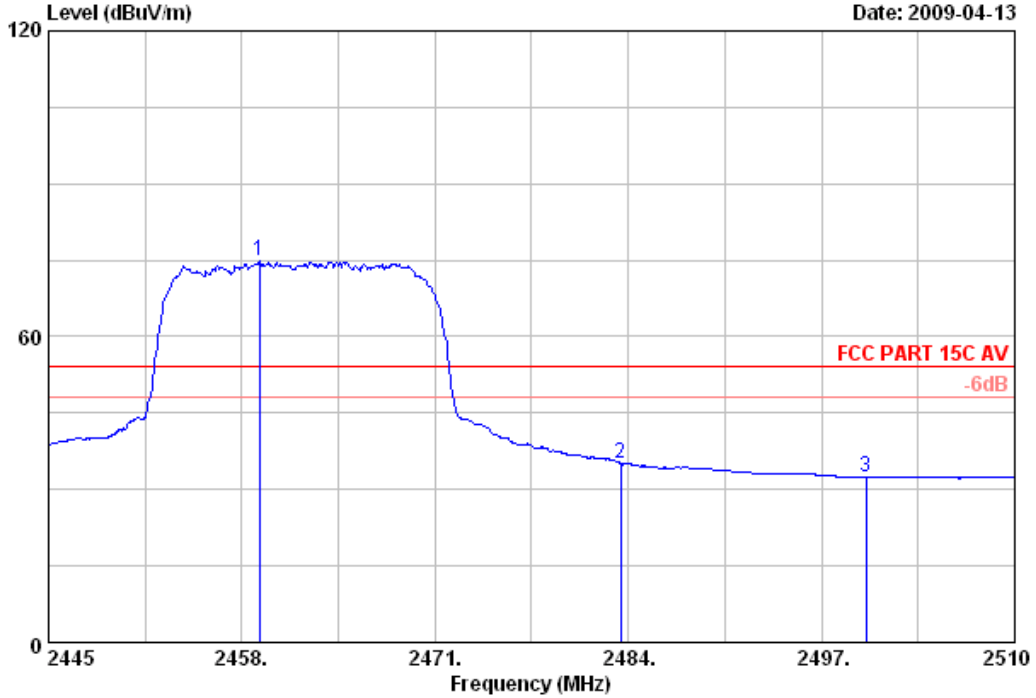
Remarks:

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



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Postcode:518057

Data: 22 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 22  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH11 2462MHz

	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	2459.170	28.55	6.84	35.11	74.71	74.99	54.00	-20.99	Average
2	2483.500	28.58	6.87	35.10	34.86	35.21	54.00	18.79	Average
3	2500.000	28.60	6.91	35.10	31.98	32.39	54.00	21.61	Average

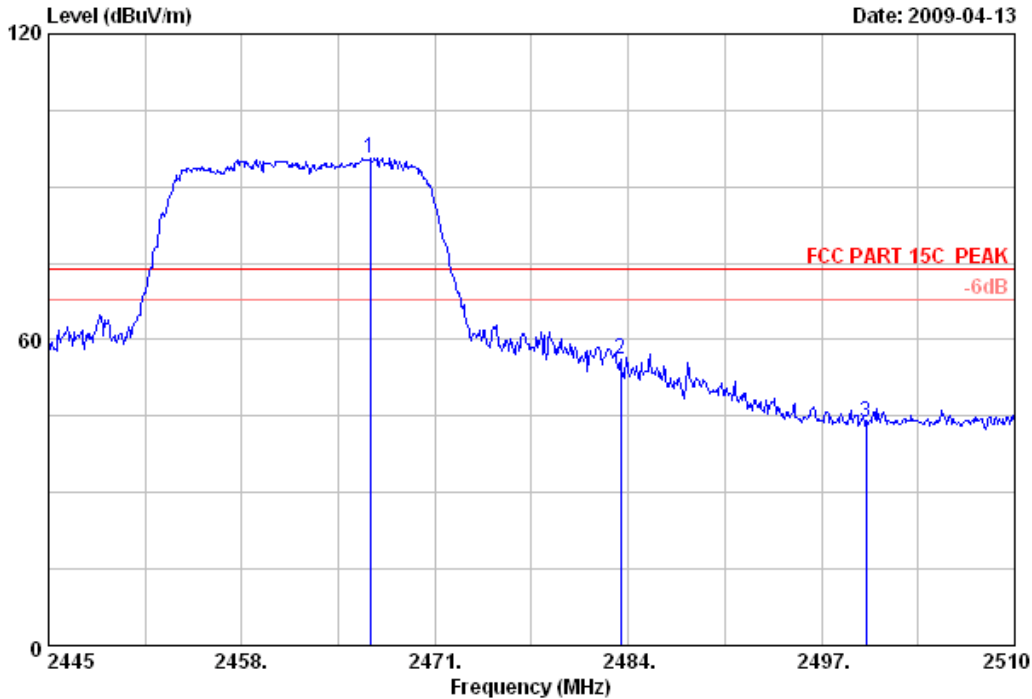
Remarks:

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



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Data: 23 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 23  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH11 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2466.645	28.55	6.84	35.10	95.36	95.65	74.00	-21.65	Peak
2	2483.500	28.58	6.87	35.10	55.71	56.06	74.00	17.94	Peak
3	2500.000	28.60	6.91	35.10	43.25	43.66	74.00	30.34	Peak

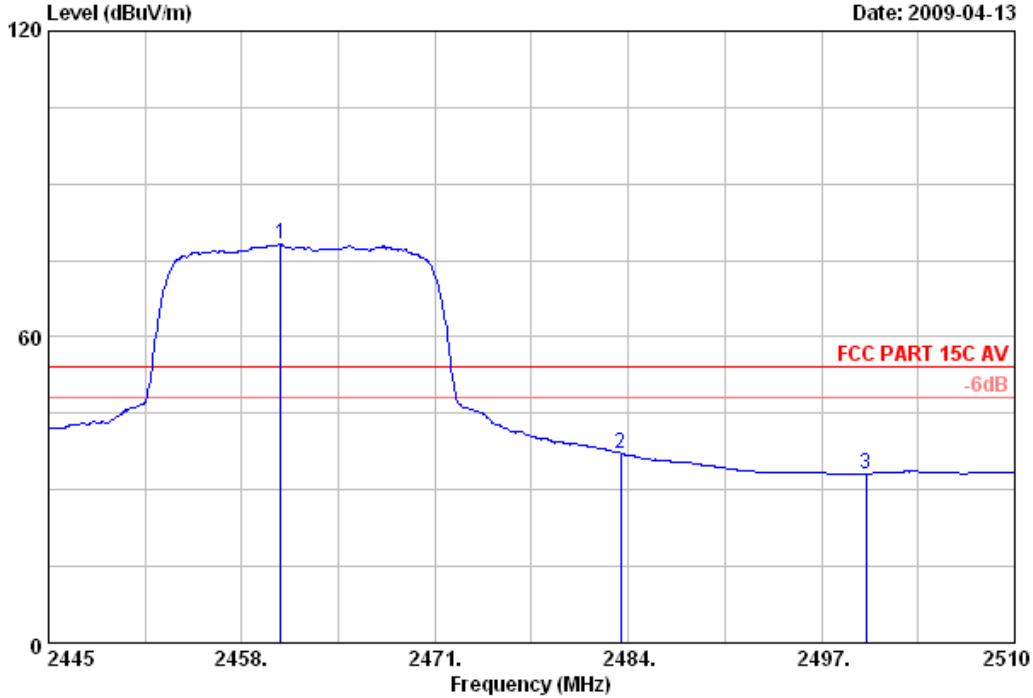
Remarks:

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



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Data: 24 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 24  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT20 CH11 2462MHz

	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	2460.600	28.55	6.84	35.11	77.88	78.16	54.00	-24.16	Average
2	2483.500	28.58	6.87	35.10	36.91	37.26	54.00	16.74	Average
3	2500.000	28.60	6.91	35.10	32.76	33.17	54.00	20.83	Average

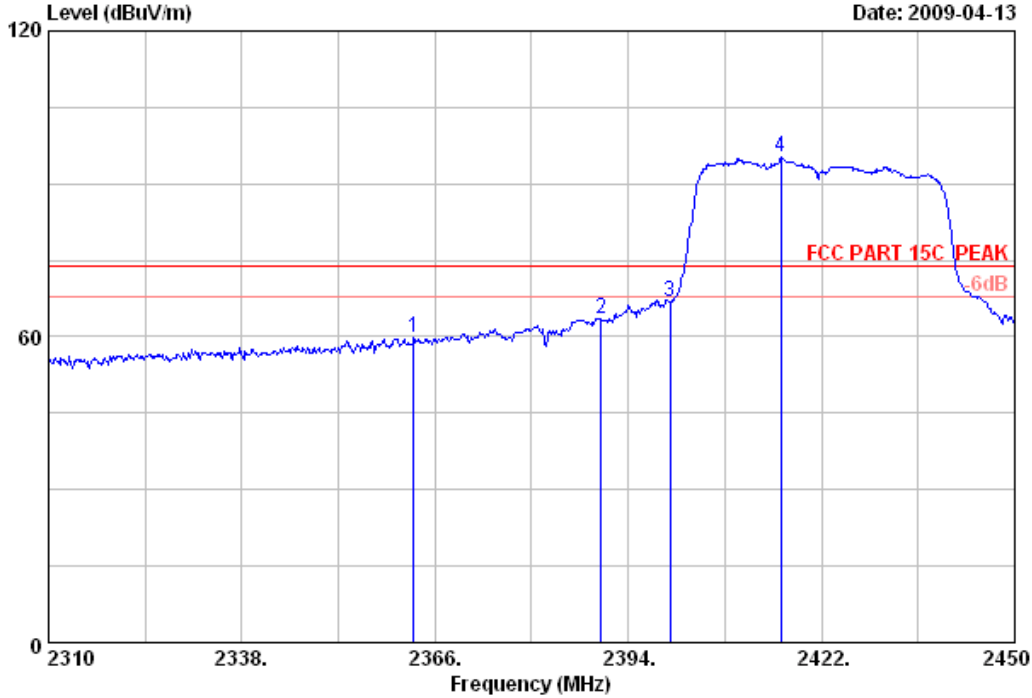
Remarks:

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



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Data: 25 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 25  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH1 2422MHz

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	Reading	Level	(dBuV/m)	(dB)	
					(dBuV)	(dBuV/m)			
1	2362.920	28.41	6.69	35.13	60.01	59.98	74.00	14.02	Peak
2	2390.000	28.46	6.71	35.12	63.45	63.50	74.00	10.50	Peak
3	2400.000	28.46	6.73	35.12	66.86	66.93	74.00	7.07	Peak
4	2416.120	28.48	6.77	35.11	95.18	95.32	74.00	-21.32	Peak

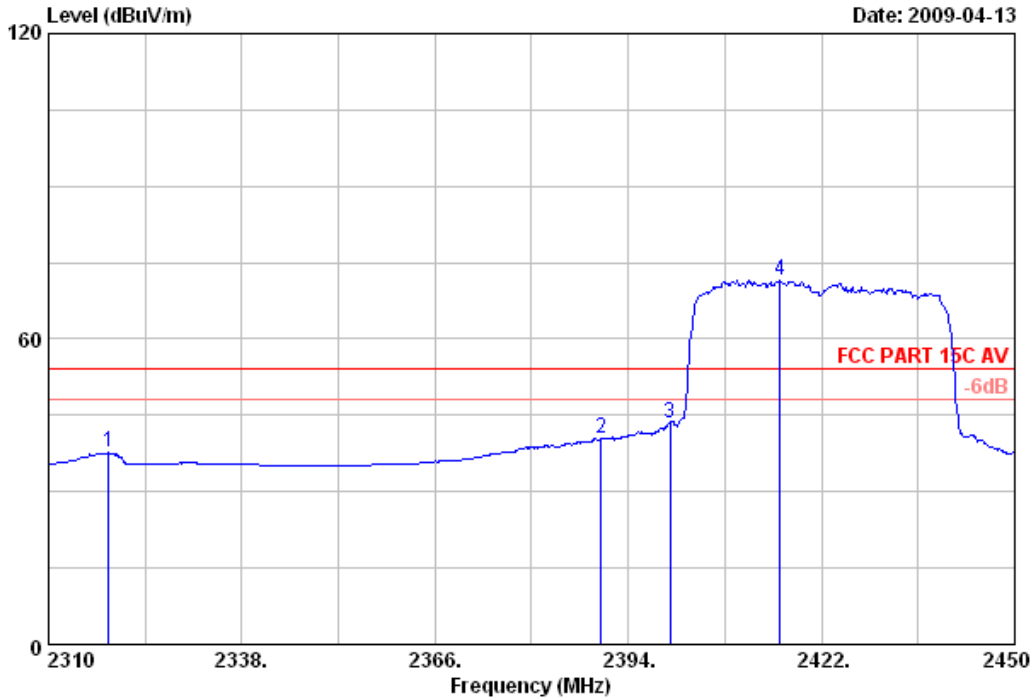
Remarks:

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



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Data: 26 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 26  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH1 2422MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	28.36	6.65	35.13	37.74	37.62	54.00	16.38	Average
2	28.46	6.71	35.12	40.26	40.31	54.00	13.69	Average
3	28.46	6.73	35.12	43.55	43.62	54.00	10.38	Average
4	28.48	6.77	35.11	71.35	71.49	54.00	-17.49	Average

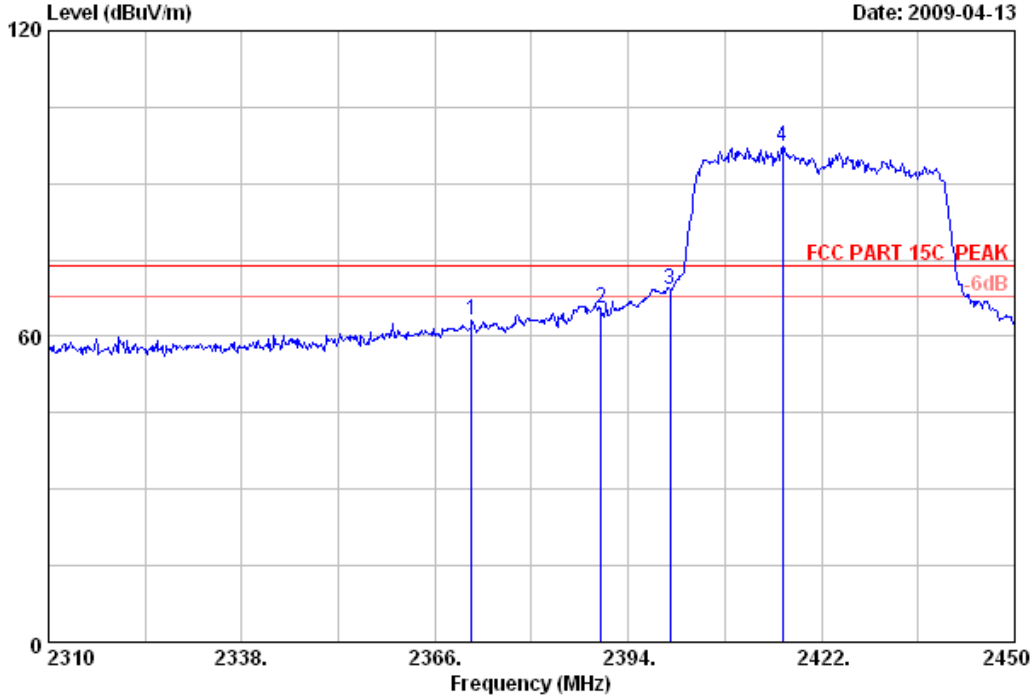
Remarks:

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



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Data: 27 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 27  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH1 2422MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark	
				Reading (dBuV)	Level (dBuV/m)				
1	2371.320	28.43	6.69	35.12	63.01	63.01	74.00	10.99	Peak
2	2390.000	28.46	6.71	35.12	65.59	65.64	74.00	8.36	Peak
3	2400.000	28.46	6.73	35.12	69.05	69.12	74.00	4.88	Peak
4	2416.400	28.48	6.77	35.11	97.12	97.26	74.00	-23.26	Peak

Remarks:

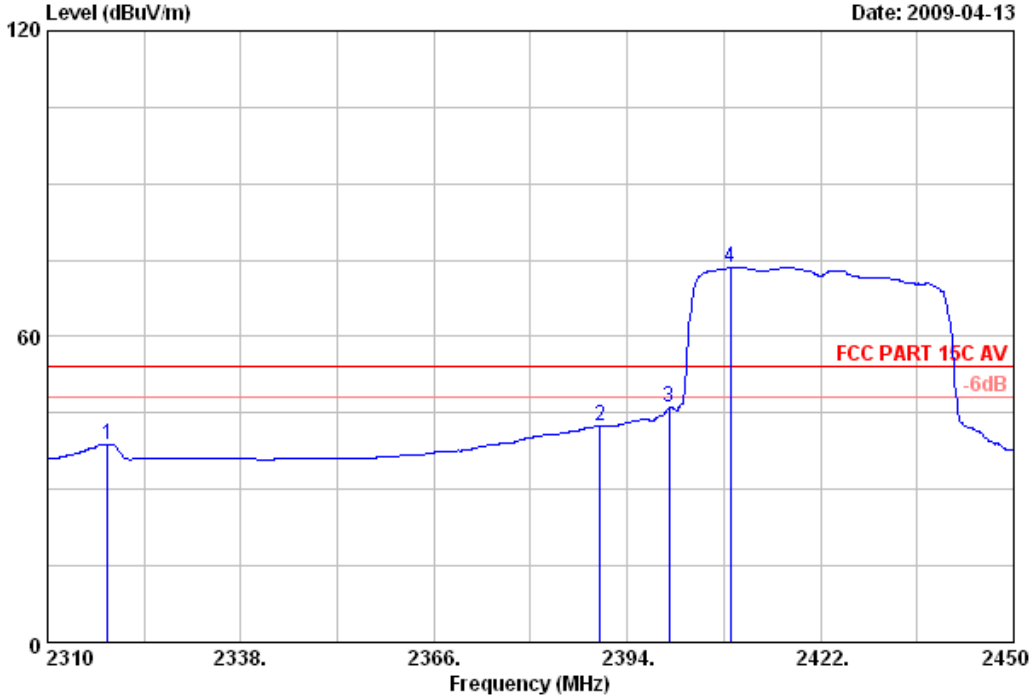
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.





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Data: 28 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 28  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH1 2422MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 2318.680	28.36	6.65	35.13	38.92	38.80	54.00	15.20	Average
2 2390.000	28.46	6.71	35.12	42.32	42.37	54.00	11.63	Average
3 2400.000	28.46	6.73	35.12	46.07	46.14	54.00	7.86	Average
4 2408.980	28.48	6.73	35.12	73.55	73.64	54.00	-19.64	Average

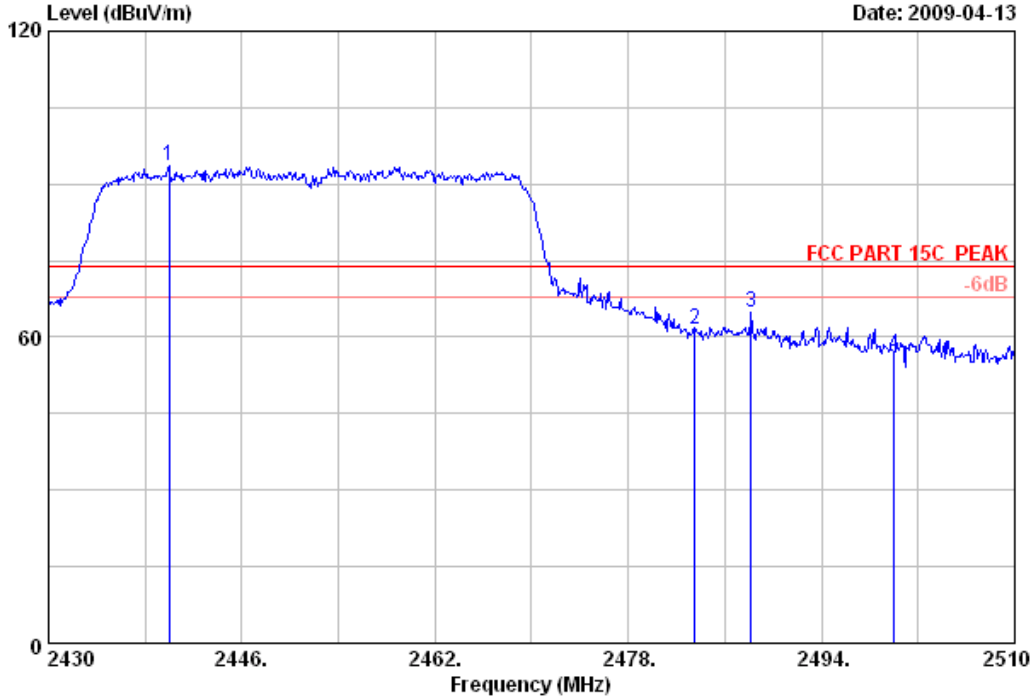
Remarks:

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



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Data: 29 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 29  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH7 2452MHz

	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2440.000	28.53	6.80	35.11	93.24	93.46	74.00	-19.46	Peak
2	2483.500	28.58	6.87	35.10	61.27	61.62	74.00	12.38	Peak
3	2488.160	28.60	6.87	35.10	64.38	64.75	74.00	9.25	Peak
4	2500.000	28.60	6.91	35.10	56.23	56.64	74.00	17.36	Peak

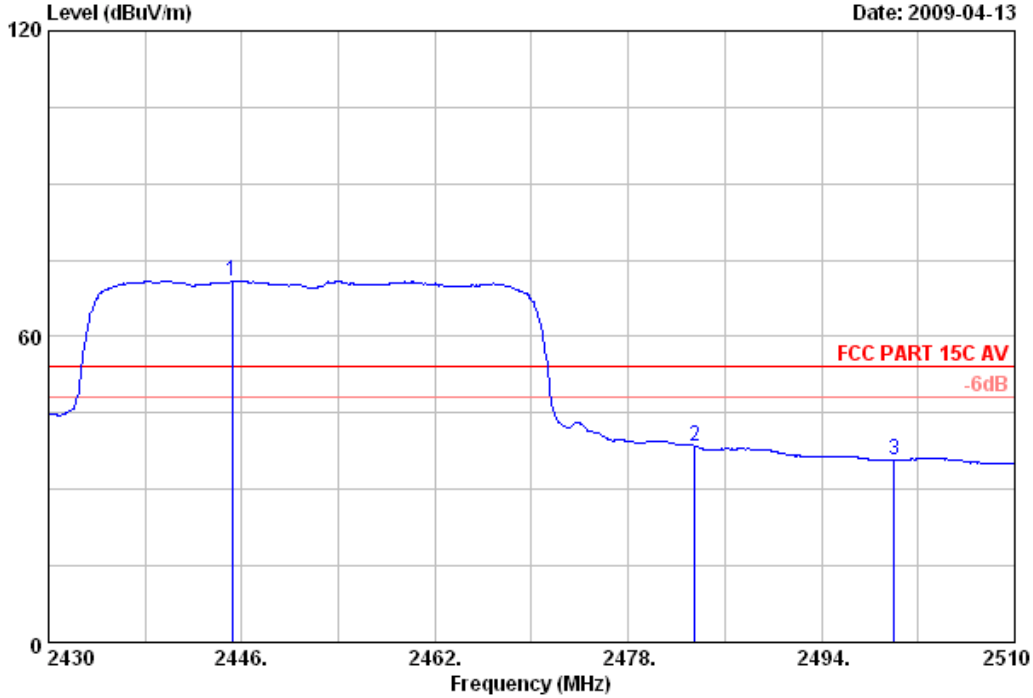
Remarks:

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



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Data: 30 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 30  
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH7 2452MHz

	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	2445.200	28.53	6.80	35.11	70.64	70.86	54.00	-16.86	Average
2	2483.500	28.58	6.87	35.10	38.14	38.49	54.00	15.51	Average
3	2500.000	28.60	6.91	35.10	35.39	35.80	54.00	18.20	Average

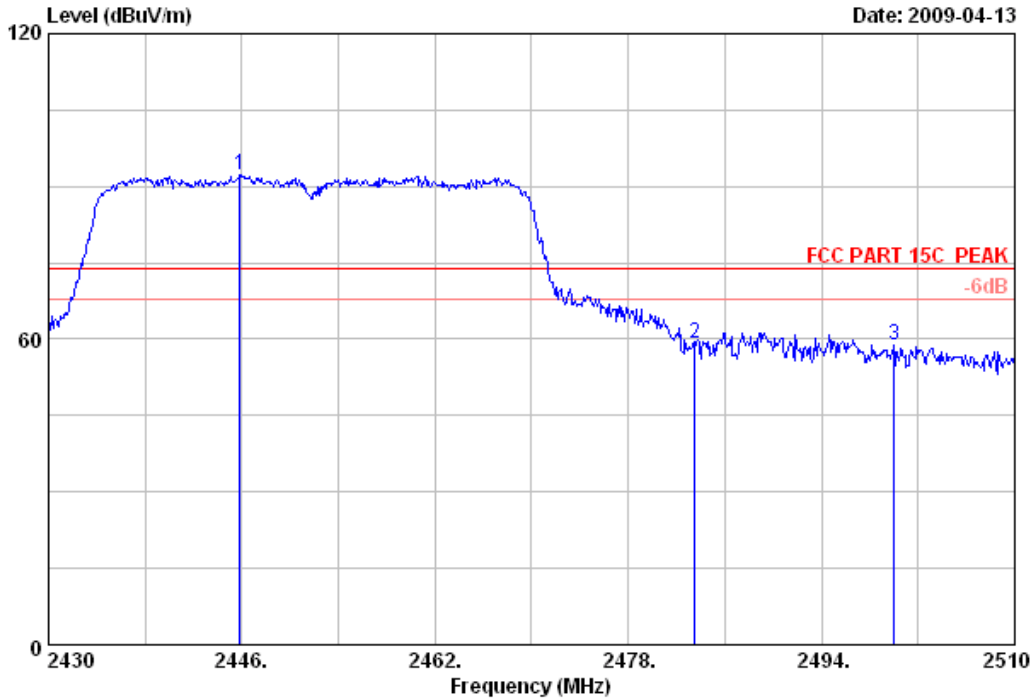
Remarks:

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



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Data: 31 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 31  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH7 2452MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 2445.840	28.53	6.80	35.11	91.89	92.11	74.00	-18.11	Peak
2 2483.500	28.58	6.87	35.10	58.69	59.04	74.00	14.96	Peak
3 2500.000	28.60	6.91	35.10	58.28	58.69	74.00	15.31	Peak

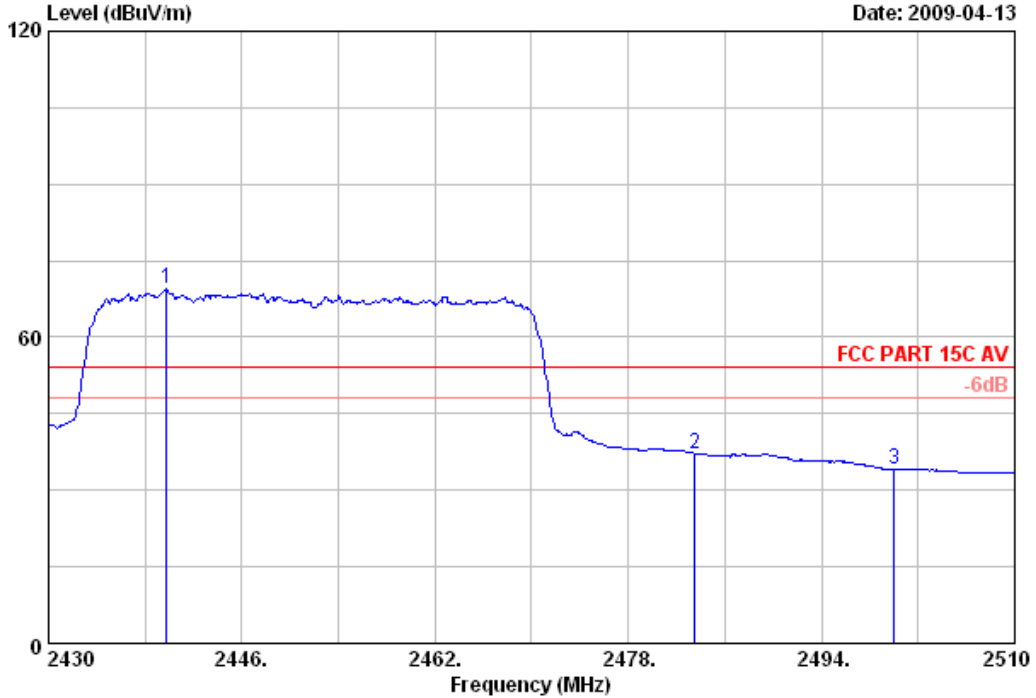
Remarks:

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



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Data: 32 File: E:\2009 report data\D-D-LINK\ACS9Q480.EM6 (220)



Site no. : 3m Chamber Data no. : 32  
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23\*C/54% Engineer : Paul  
 EUT : Wireless G USB Adapter M/N:DWA-110  
 Power Rating : DC 5V From PC input AC 120V/60Hz  
 Test mode : 11nHT40 CH7 2452MHz

	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	2439.760	28.53	6.80	35.11	69.19	69.41	54.00	-15.41	Average
2	2483.500	28.58	6.87	35.10	36.84	37.19	54.00	16.81	Average
3	2500.000	28.60	6.91	35.10	33.84	34.25	54.00	19.75	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,10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
3	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May,28, 08	1Year

### 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 100 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

Test Mode: IEEE 802.11b TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	12.00	>500	<b>PASS</b>
6	12.00	>500	<b>PASS</b>
11	12.00	>500	<b>PASS</b>

Test Mode: IEEE 802.11g TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	16.40	>500	<b>PASS</b>
6	16.40	>500	<b>PASS</b>
11	16.40	>500	<b>PASS</b>

Test Mode: IEEE 802.11n HT20 TX

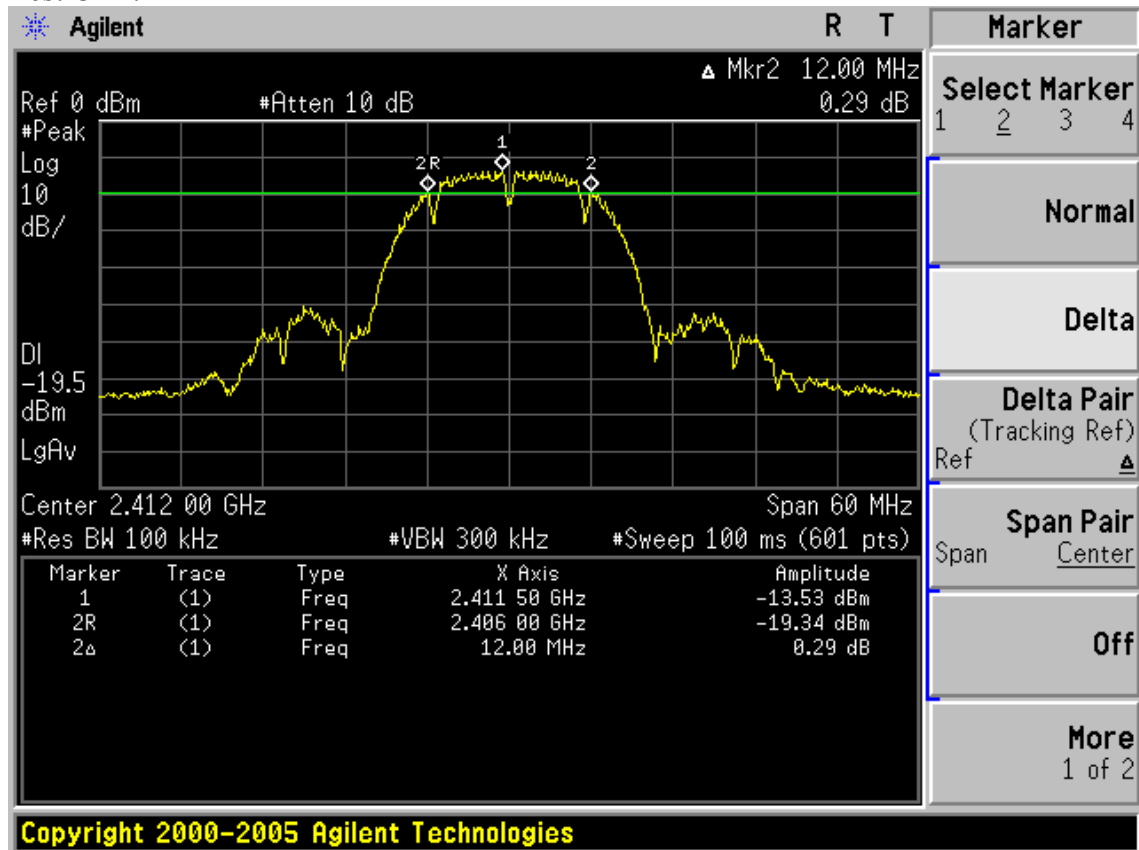
CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	17.00	>500	<b>PASS</b>
6	17.30	>500	<b>PASS</b>
11	17.00	>500	<b>PASS</b>

Test Mode: IEEE 802.11n HT40 TX

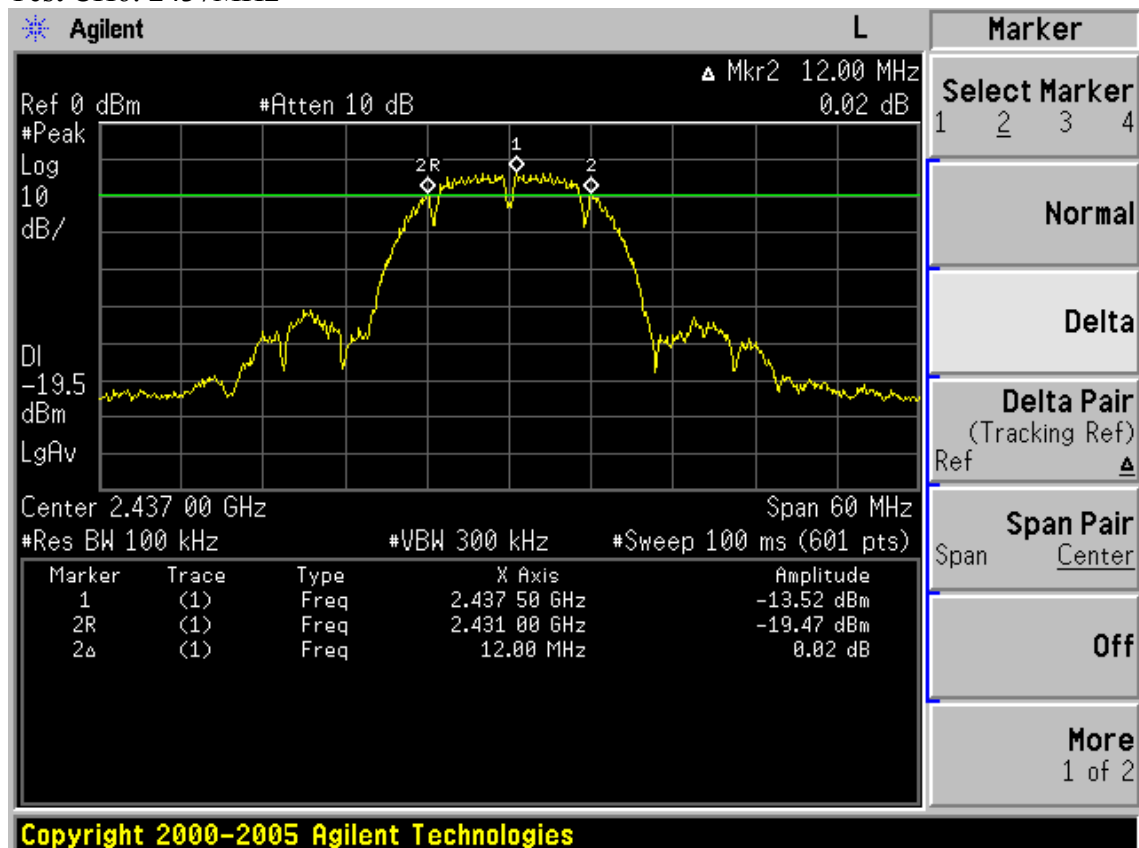
CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	35.60	>500	<b>PASS</b>
4	35.70	>500	<b>PASS</b>
7	35.60	>500	<b>PASS</b>

Test Mode: IEEE 802.11b TX

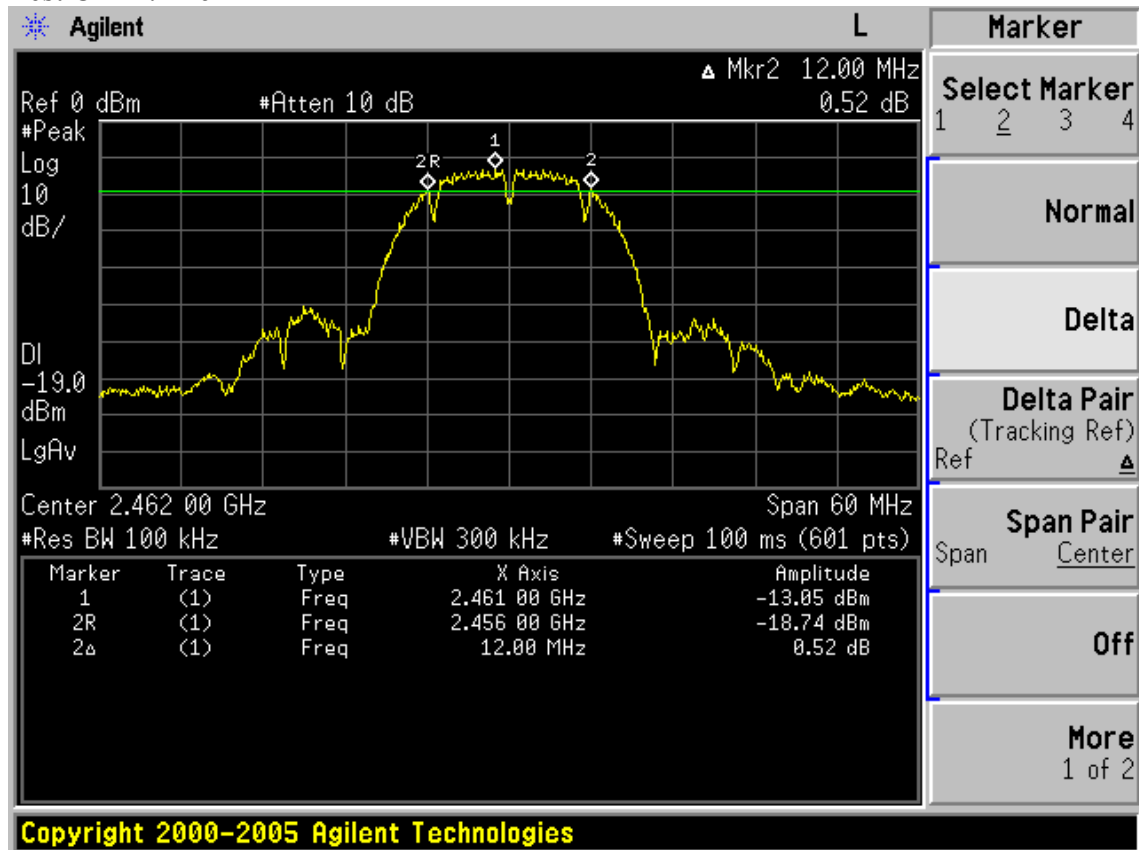
Test CH1: 2412MHz



Test CH6: 2437MHz

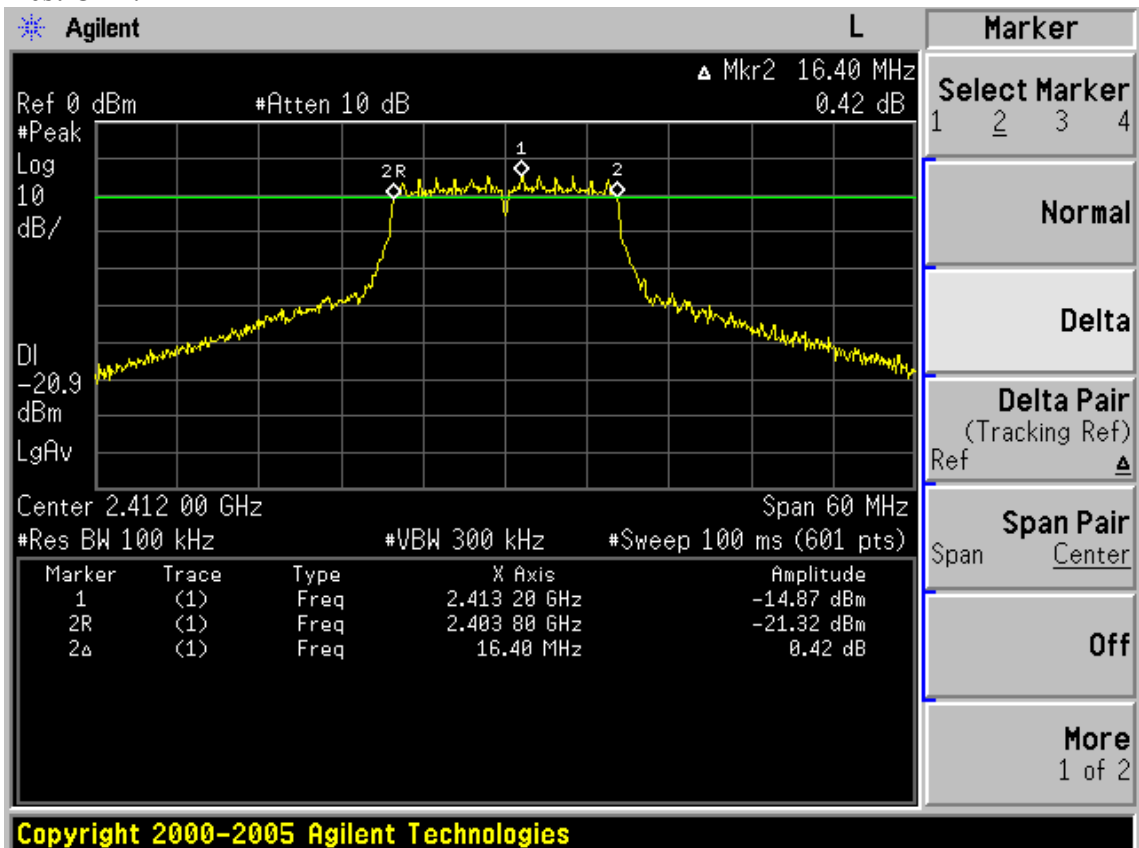


Test CH1: 2462MHz



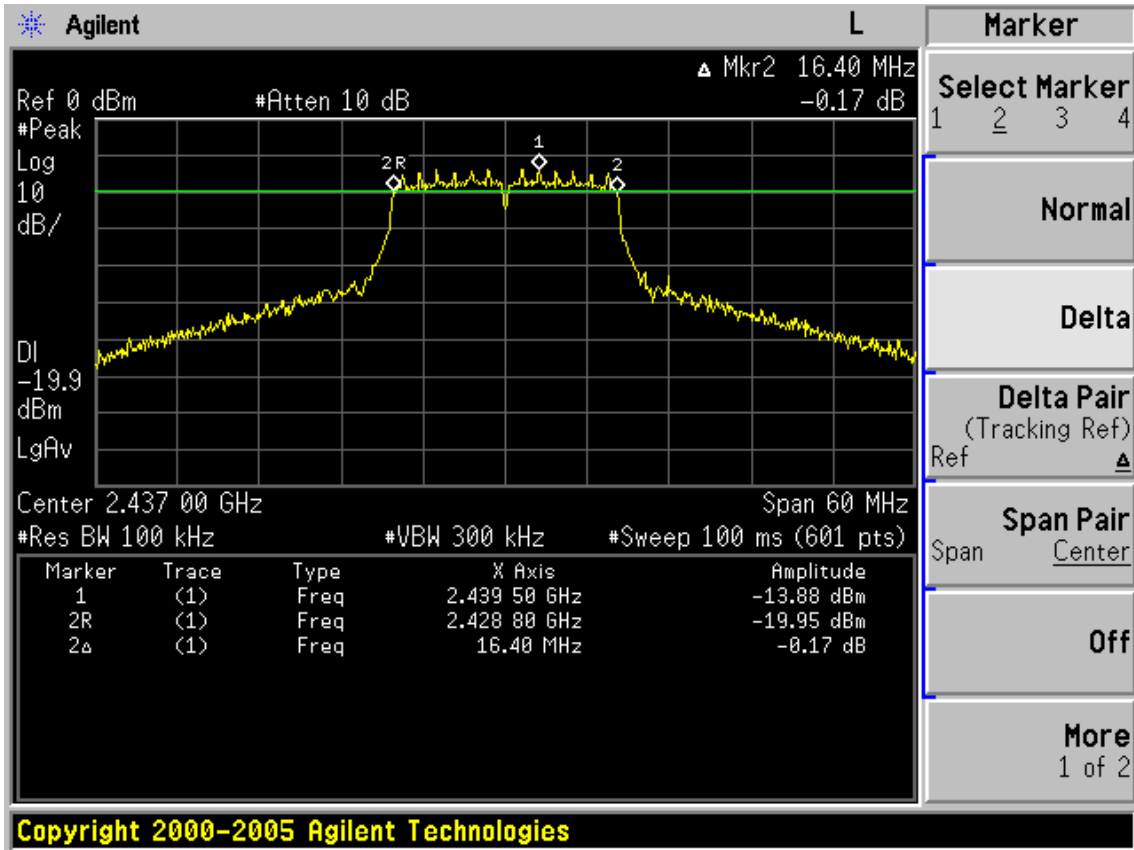
Test Mode: IEEE 802.11g TX

Test CH1: 2412MHz

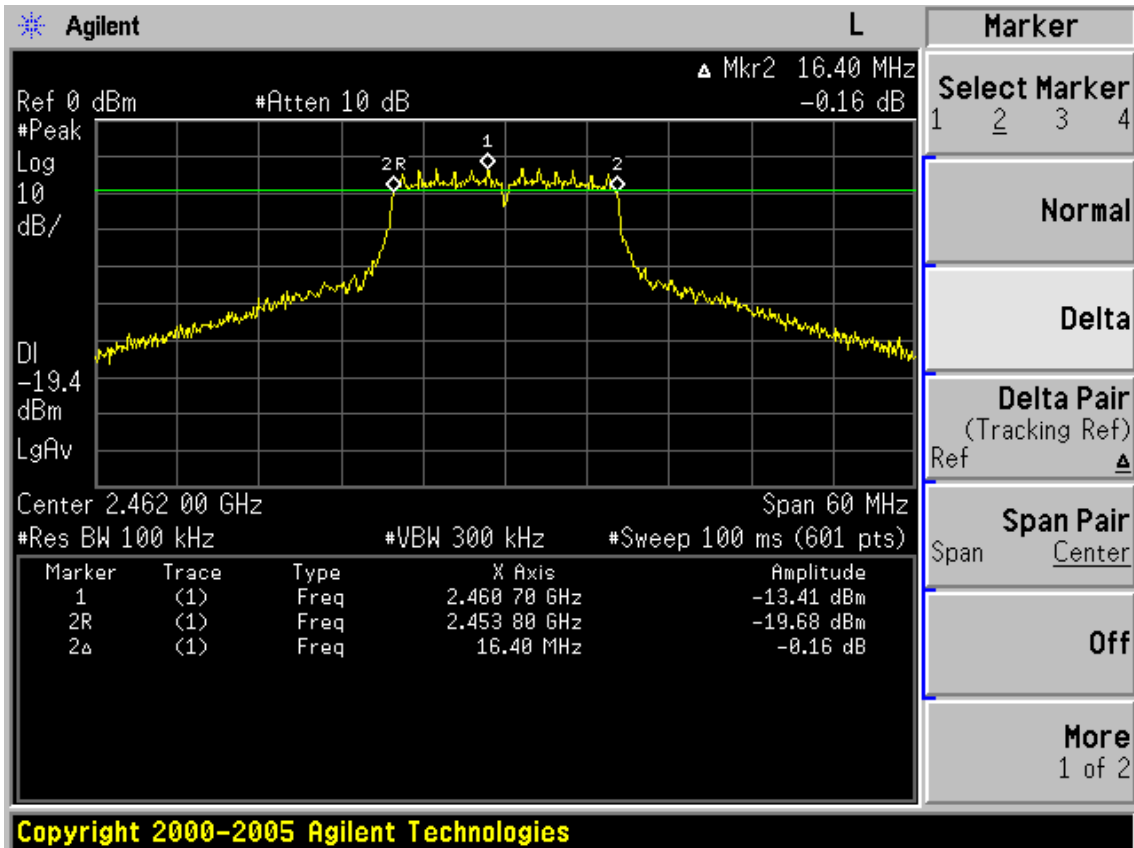




Test CH6: 2437MHz

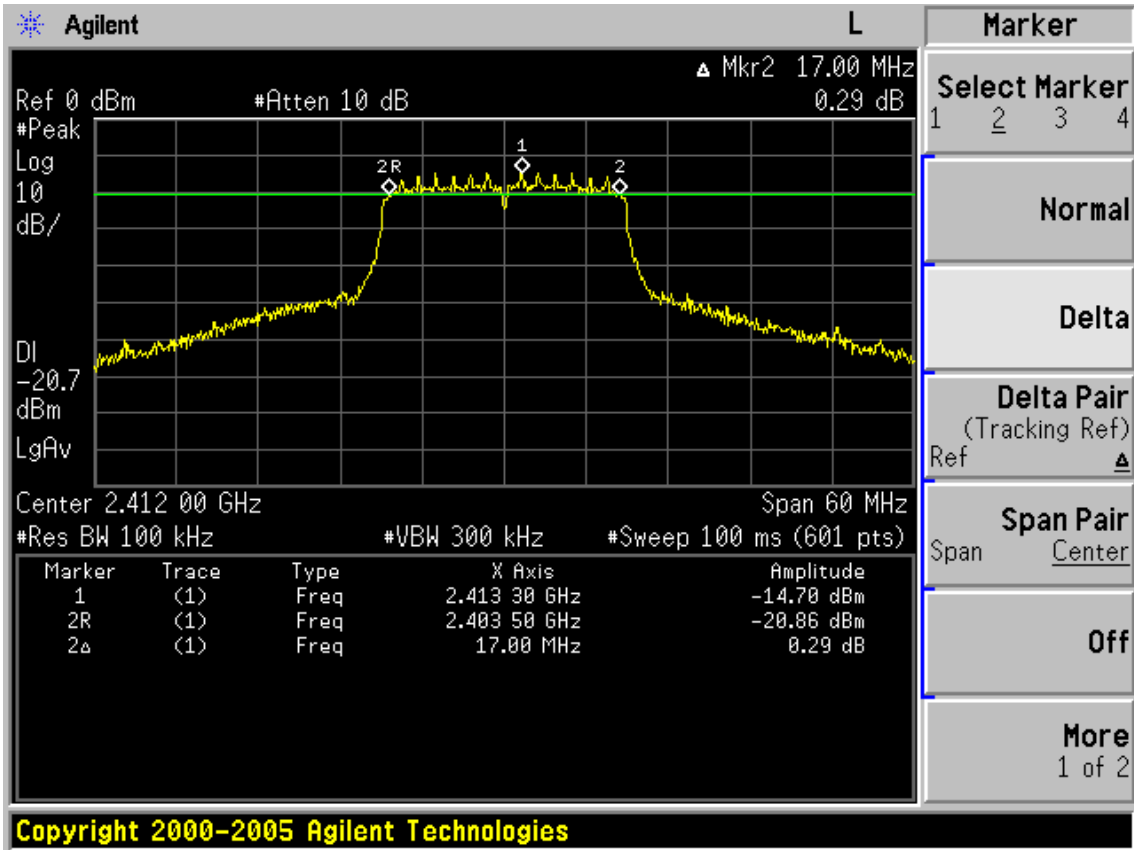


Test CH11: 2462MHz

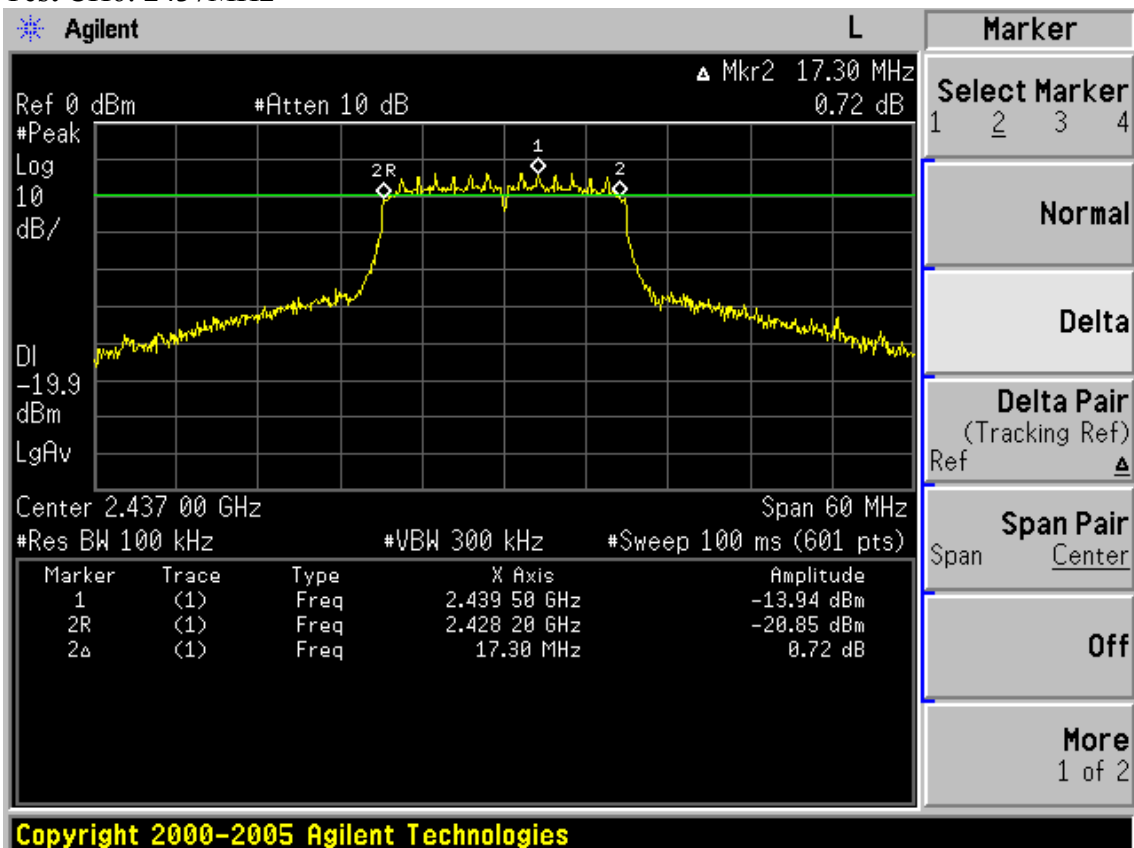


Test Mode: IEEE 802.11n HT20 TX

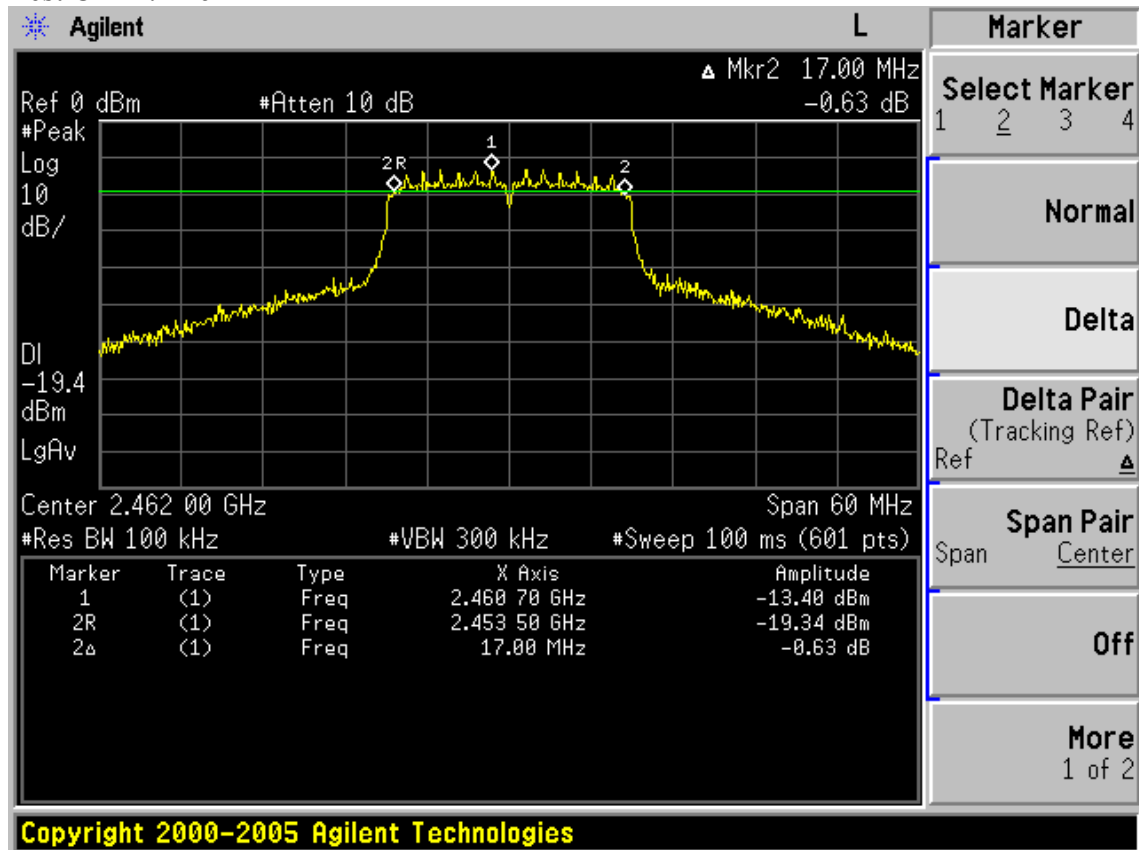
Test CH1: 2412MHz



Test CH6: 2437MHz

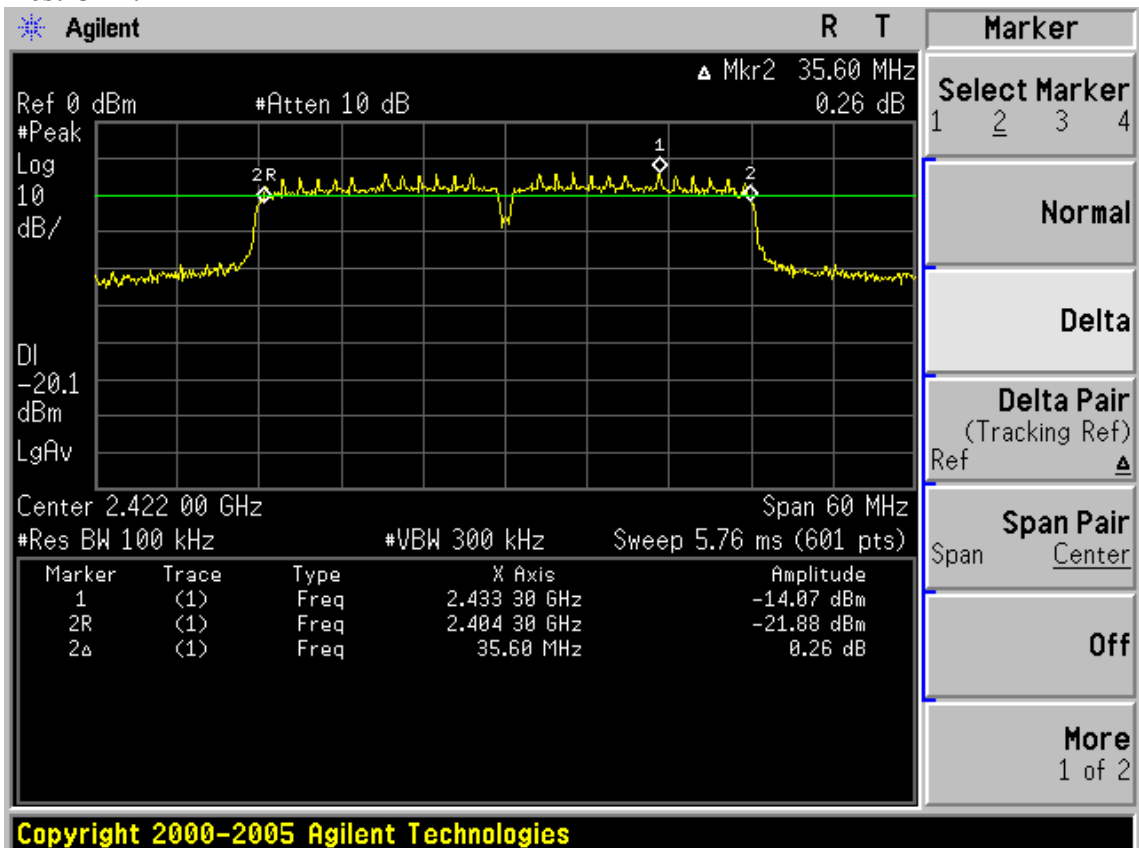


Test CH1: 2462MHz

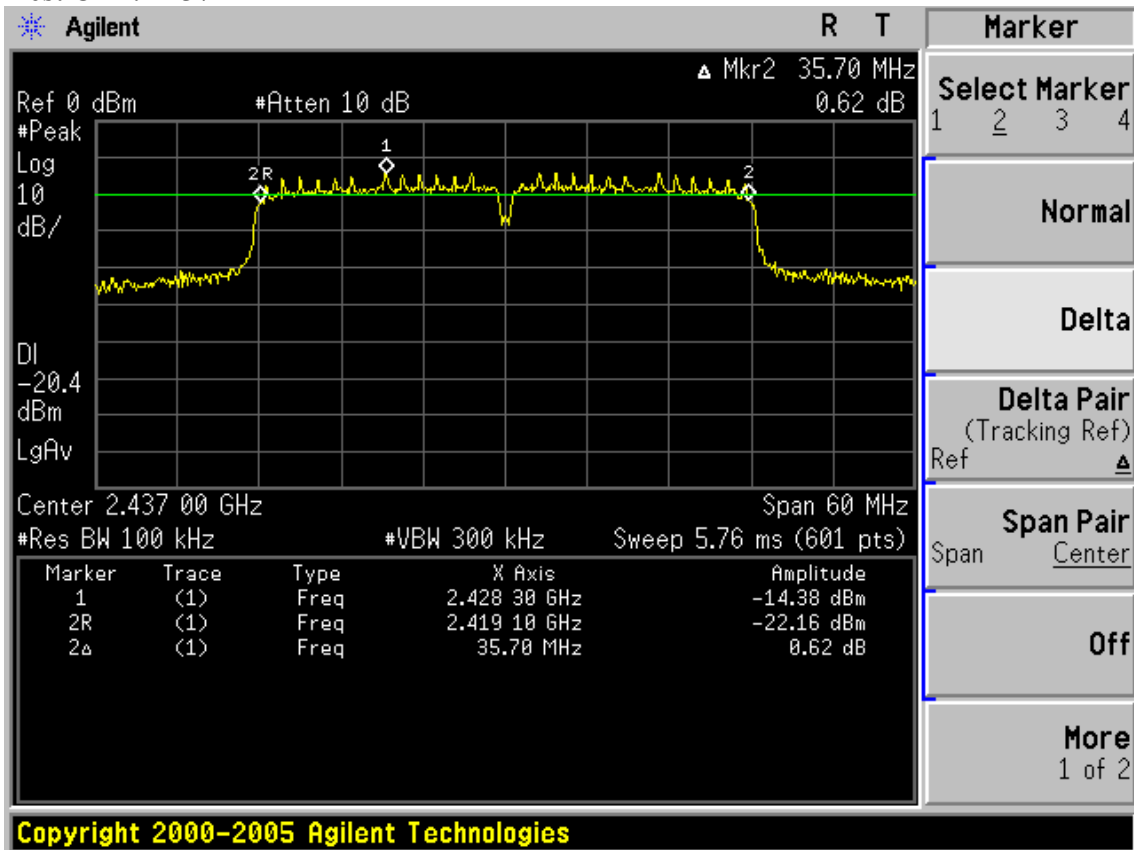


Test Mode: IEEE 802.11n HT40 TX

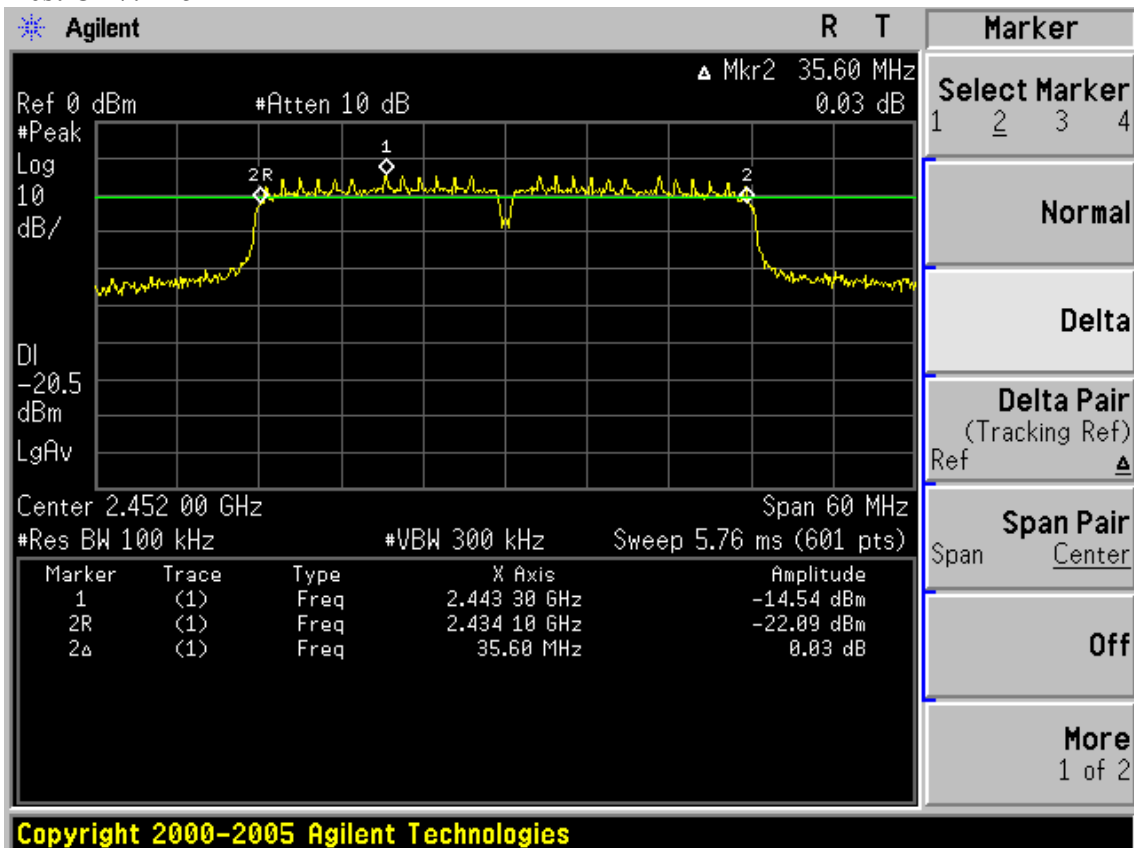
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



## 8. OUTPUT POWER TEST

### 8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
3	Power meter	Anritsu	ML2487A	6K00002472	May,10, 08	1 Year
4	Power sensor	Anritsu	ML2491A	032516	May,10, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May,28, 08	1Year

### 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

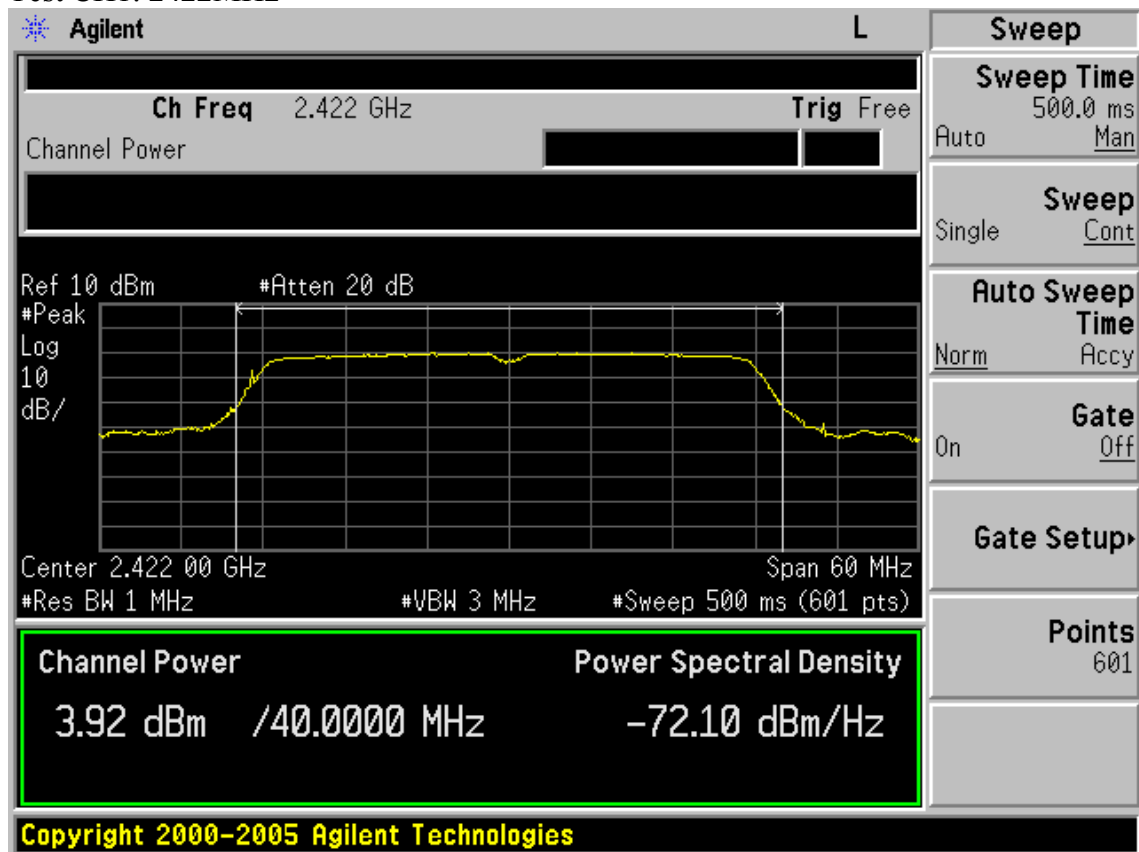
- 1, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use power output option 1 method of KDB 558074, the transmitter output was connection to a power meter by suitable attenuation, read out the peak output power of device.
- 2, For IEEE802.11n HT40 mode, because the signal's EBW is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So the channel power measure function of spectrum Analyzer was used to measure out the PK output power of device. According power output option 2, method #3 of KDB558074.

## 8.4. Test Results

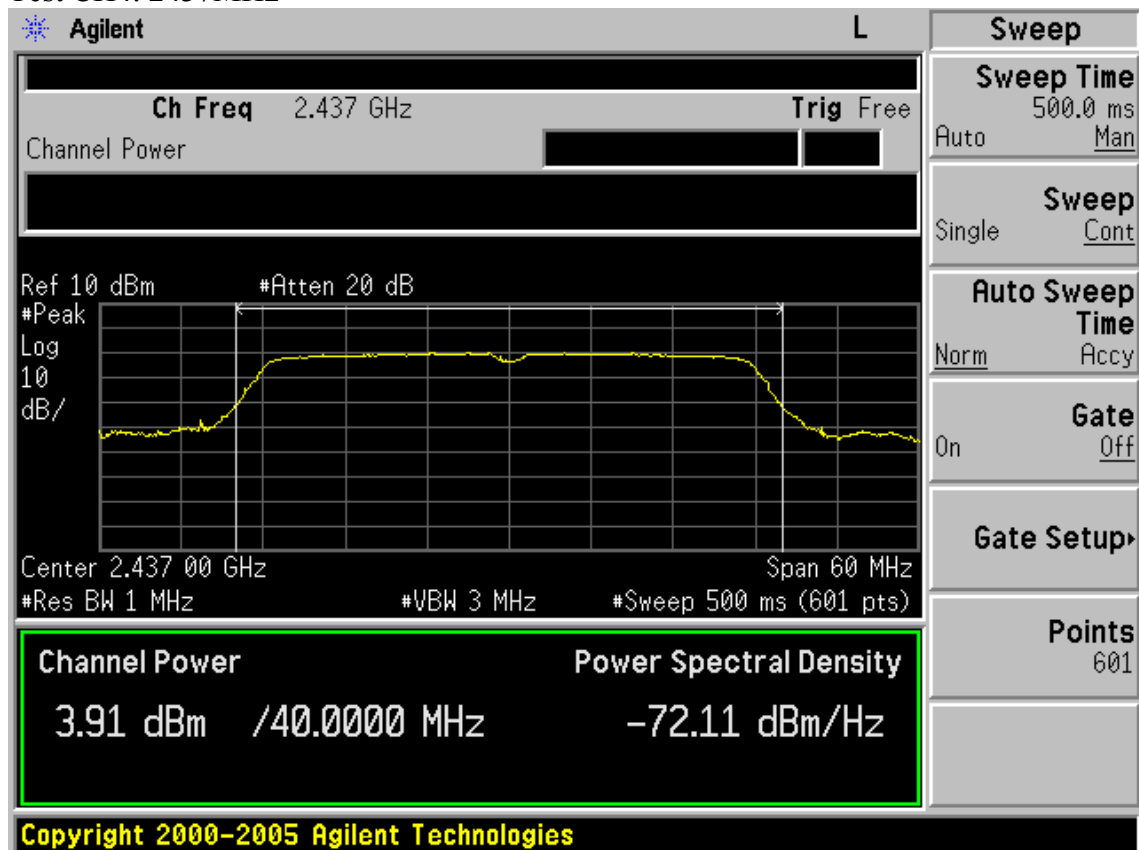
EUT: Wireless G USB Adapter MN:DWA-110							
Power: DC 5V From PC input AC 120V/60Hz							
Data Rate:11b 1Mbps ; 11g 6Mbps ; 11nHT20 6.5Mbps ; 11nHT40 13.5Mbps (Note 1)							
Ambient Temperature:23°C				Relative Humidity: 61%			
Test date:2009/04/22				Test site: RF site		Tested by: Sunny-Lu	
Test CH	11b 11g 11n HT20			CH1 2412MHz CH6 2437MHz CH11 2462MHz			
Test CH	11n HT40			CH1 2422MHz CH4 2437MHz CH7 2452MHz			
Mode	CH	PK Read (dBm)	Cable Loss (dB)	Attenuator (dB)	Result (dBm)	Limit (dBm)	Conclusion
11b	CH1	-0.44	0.60	20.0	20.16	30.00	PASS
	CH6	-0.68	0.60	20.0	19.92	30.00	PASS
	CH11	-0.48	0.60	20.0	20.12	30.00	PASS
11g	CH1	5.62	0.60	20.0	26.22	30.00	PASS
	CH6	5.32	0.60	20.0	25.92	30.00	PASS
	CH11	5.18	0.60	20.0	25.78	30.00	PASS
11n HT20	CH1	5.72	0.60	20.0	26.32	30.00	PASS
	CH6	5.38	0.60	20.0	25.98	30.00	PASS
	CH11	5.29	0.60	20.0	25.89	30.00	PASS
11n HT40	CH1	3.92	0.60	20.0	24.52	30.00	PASS
	CH4	3.91	0.60	20.0	24.51	30.00	PASS
	CH7	3.76	0.60	20.0	24.36	30.00	PASS
Note1: According Exploratory test, These data rate have the maximum output power							
Result= PK read +cable loss+Attenuator							

Test Mode: IEEE 802.11n HT40

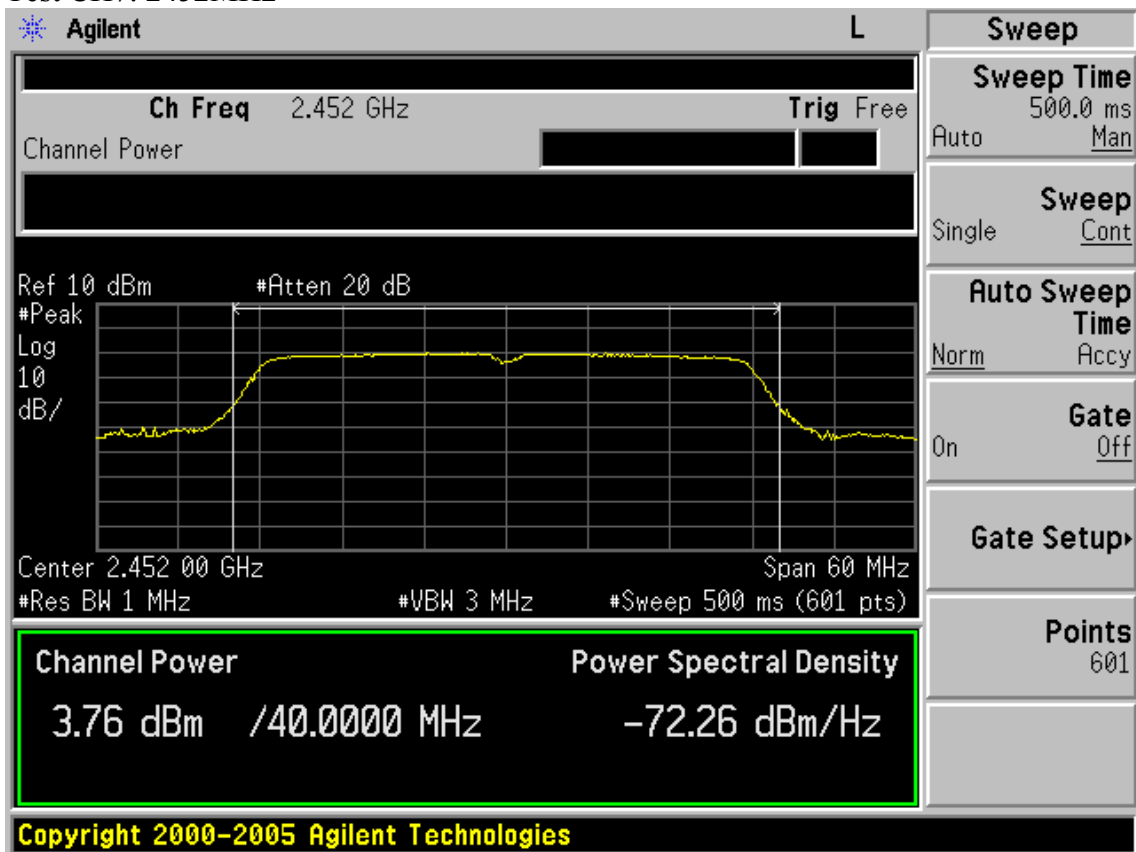
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz





## 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,10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
3	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May,28, 08	1Year

### 9.2. Limit

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

### 9.3. Test Procedure

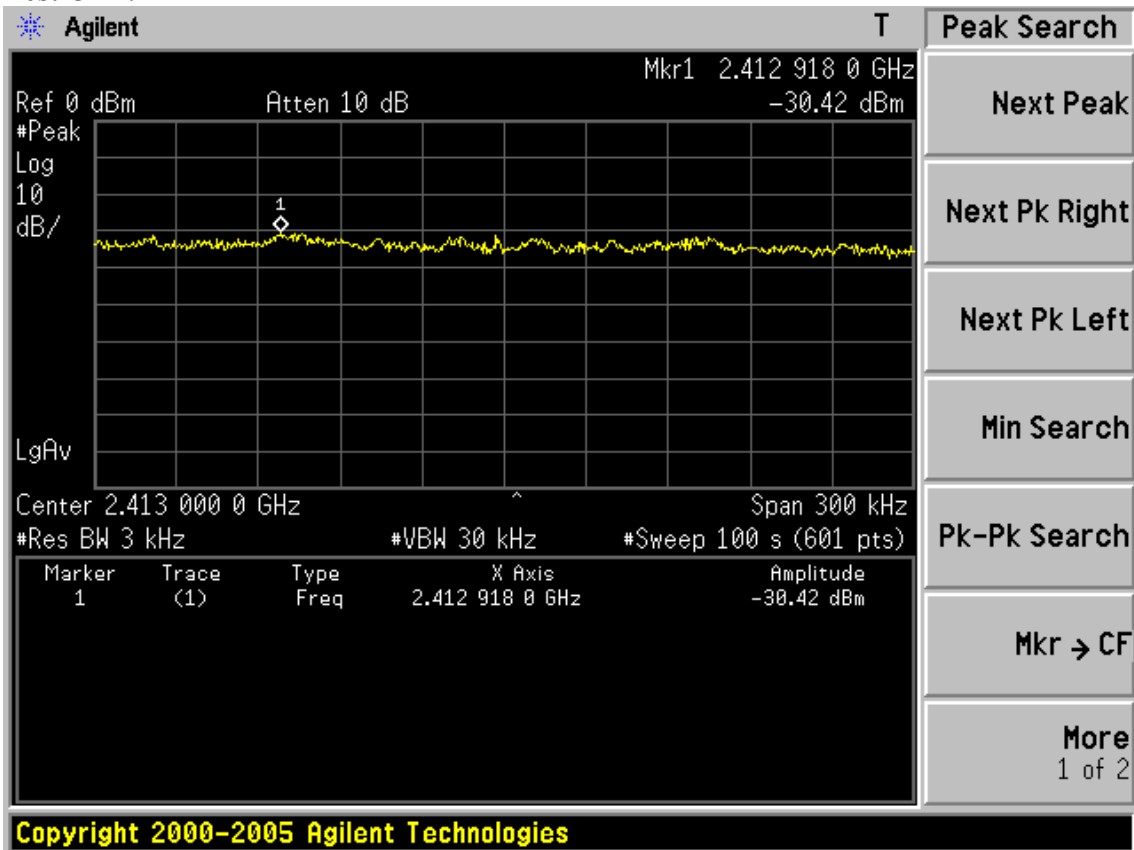
The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 3kHz RBW and 30kHz VBW, sweep time=span/3kHz according PSD option 1 of KDB 558074.

## 9.4. Test Results

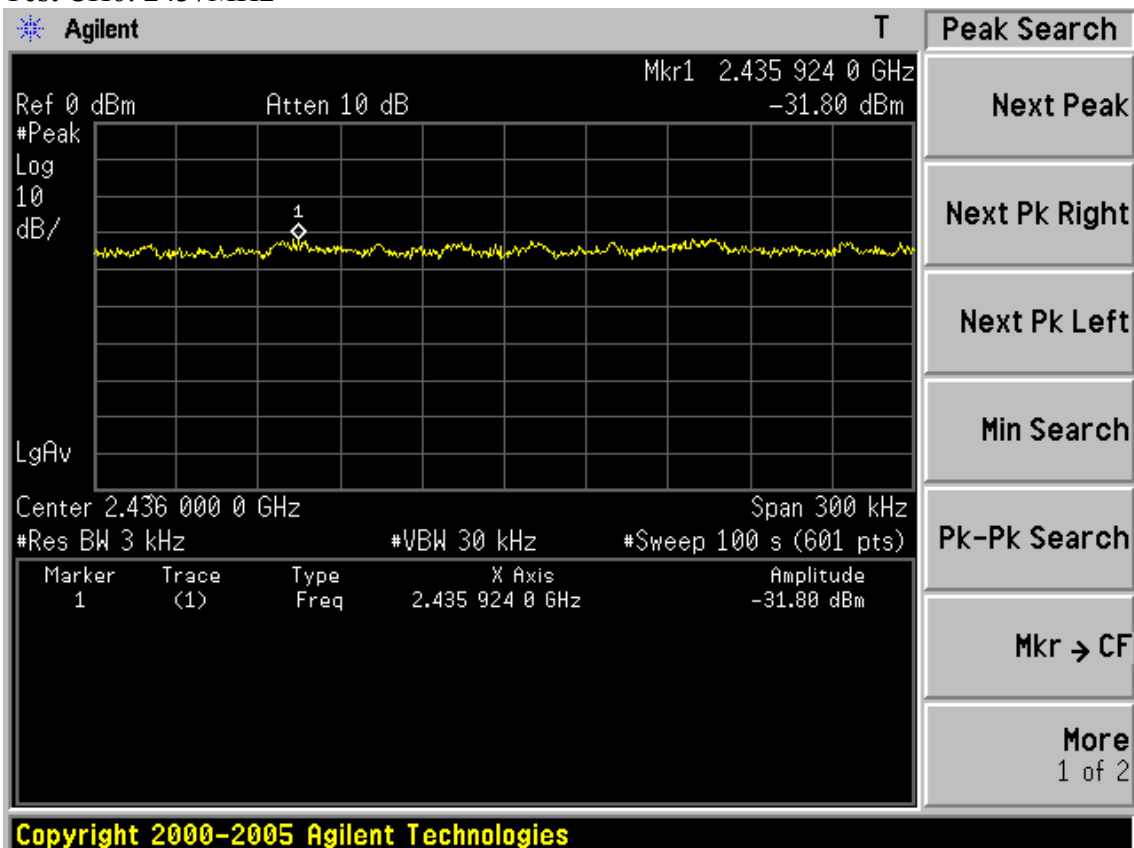
EUT: Wireless G USB Adapter M/N:DWA-110							
Power: DC 5V From PC input AC 120V/60Hz							
Data Rate:11b: 1Mbps ; 11g : 6Mbps 11n HT20:6.5Mbps 11n HT40:13.5Mbps(Note 1)							
Ambient Temperature:23℃				Relative Humidity: 60%			
Test date:2009/04/19			Test site: RF site			Tested By: Sunny-lu	
Test 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	-30.42	0.6	20.0	-9.82	8.00	<b>Pass</b>
	CH6	-31.80	0.6	20.0	-11.20	8.00	<b>Pass</b>
	CH11	-30.90	0.6	20.0	-10.30	8.00	<b>Pass</b>
11g	CH1	-32.31	0.6	20.0	-11.71	8.00	<b>Pass</b>
	CH6	-32.50	0.6	20.0	-11.90	8.00	<b>Pass</b>
	CH11	-32.29	0.6	20.0	-11.69	8.00	<b>Pass</b>
11n HT20	CH1	-32.45	0.6	20.0	-11.85	8.00	<b>Pass</b>
	CH6	-31.69	0.6	20.0	-11.09	8.00	<b>Pass</b>
	CH11	-32.27	0.6	20.0	-11.67	8.00	<b>Pass</b>
11n HT40	CH1	-30.82	0.6	20.0	-10.22	8.00	<b>Pass</b>
	CH4	-31.71	0.6	20.0	-11.11	8.00	<b>Pass</b>
	CH7	-31.15	0.6	20.0	-10.55	8.00	<b>Pass</b>
Note1:According Exploratory test, These data rate have the maximum output power							
Note2:Result=Read+Cable loss+Attenuator							

Test Mode: IEEE 802.11b TX

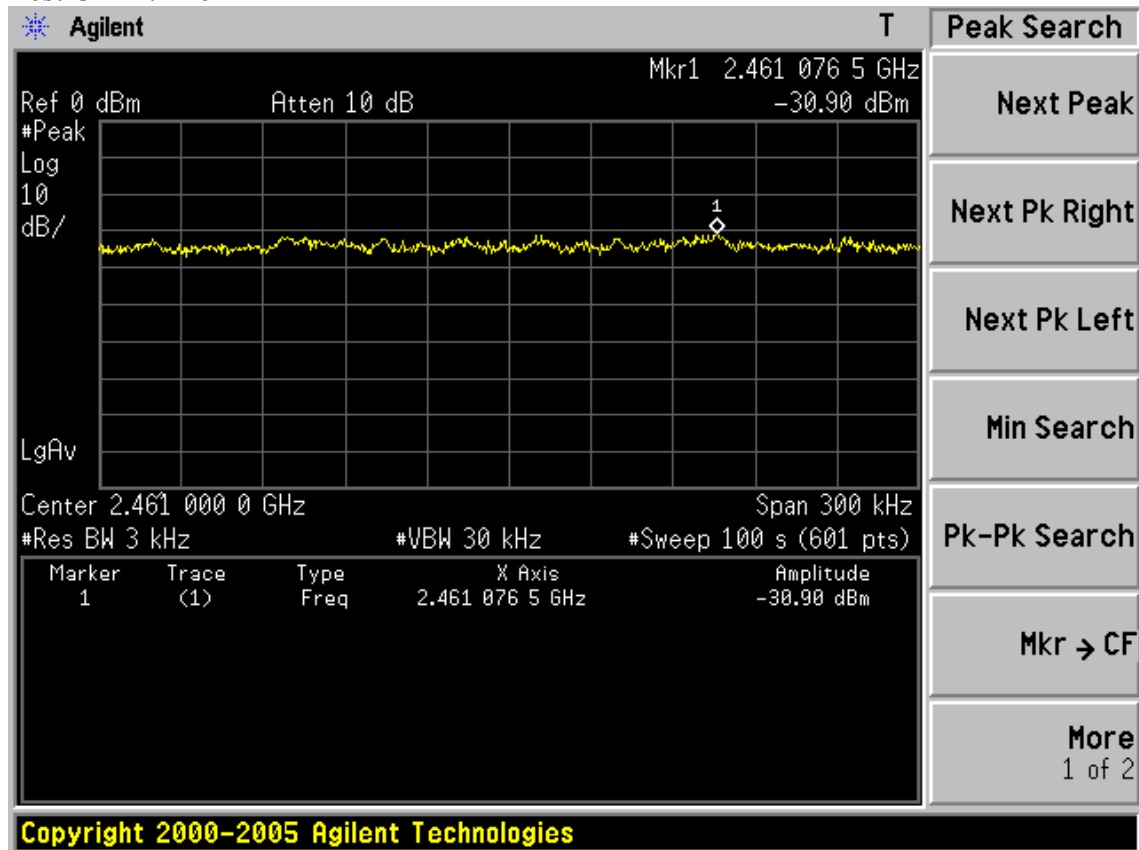
Test CH1: 2412MHz



Test CH6: 2437MHz

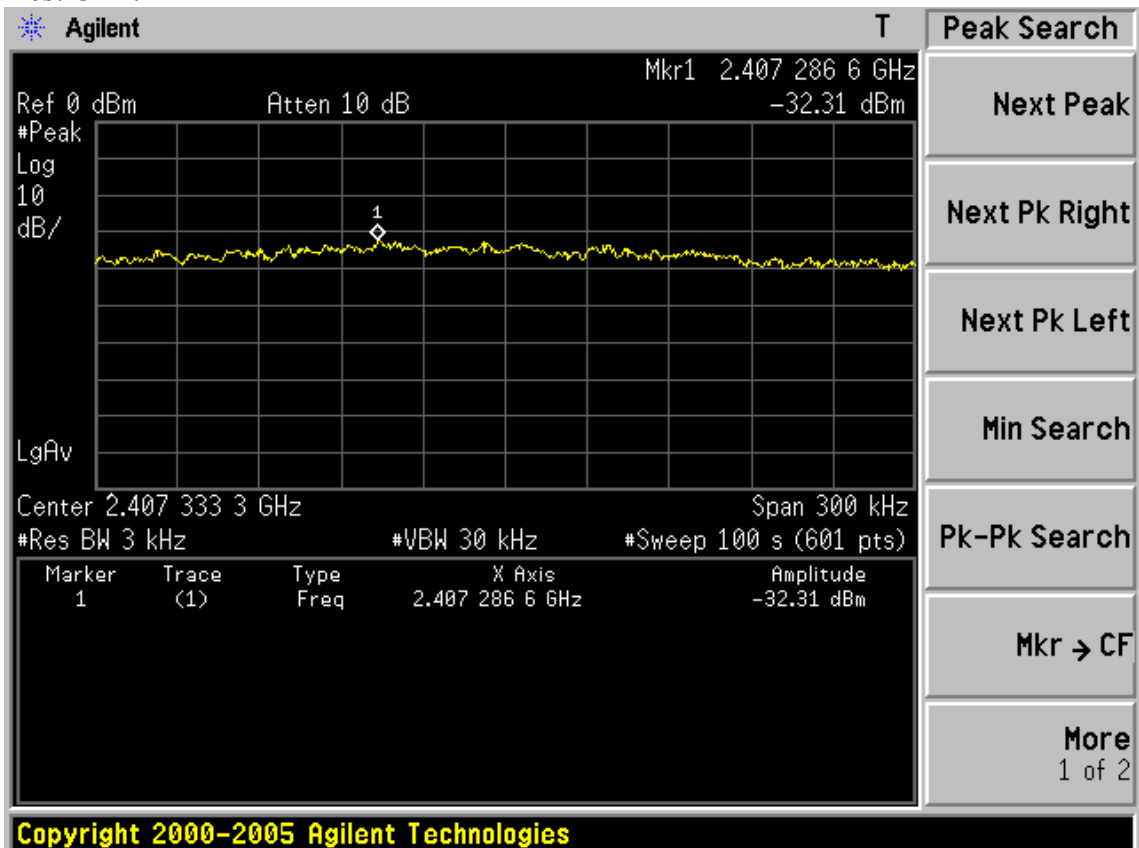


Test CH1: 2462MHz

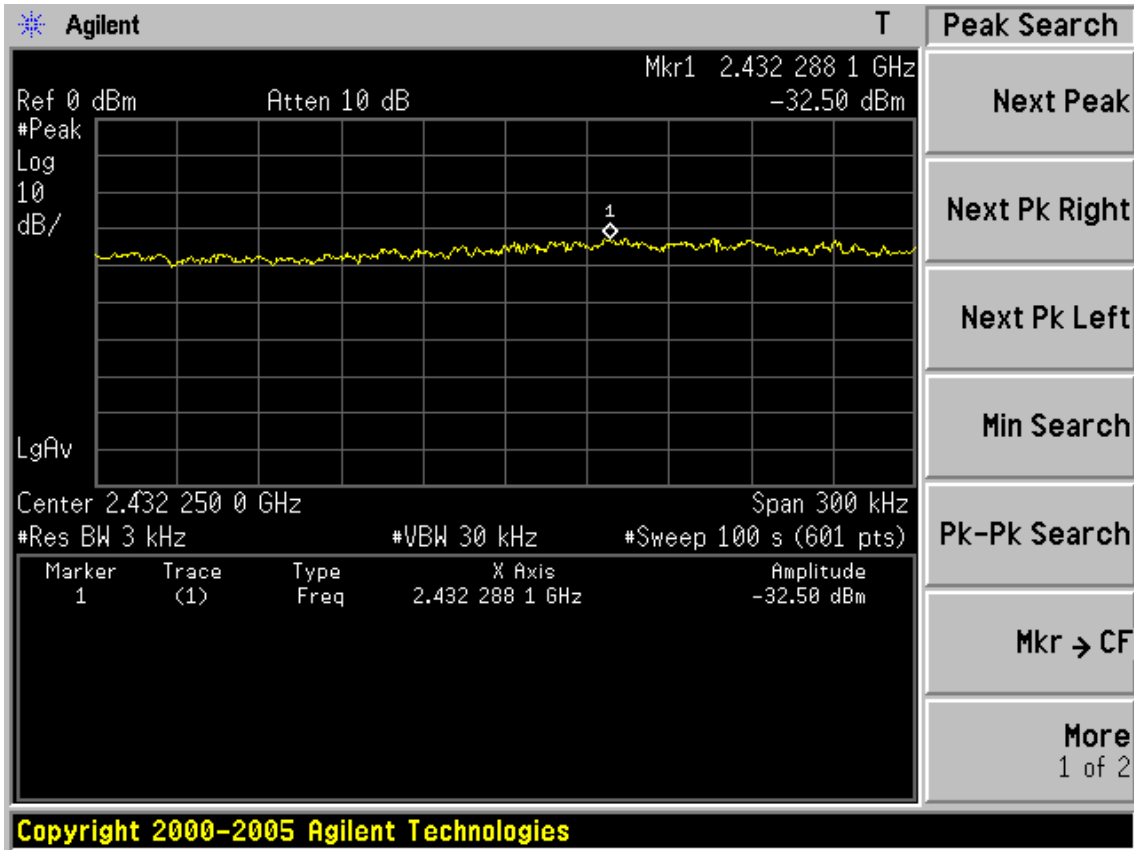


Test Mode: IEEE 802.11g TX

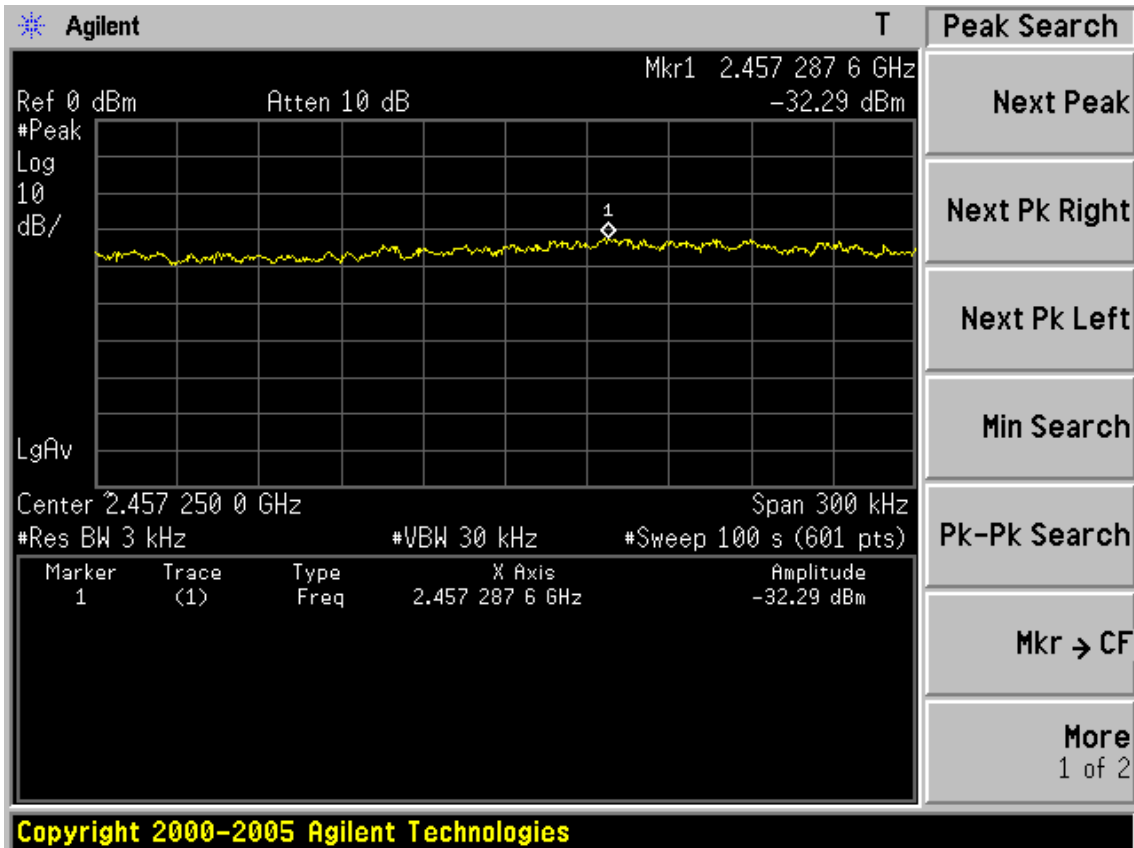
Test CH1: 2412MHz



Test CH6: 2437MHz

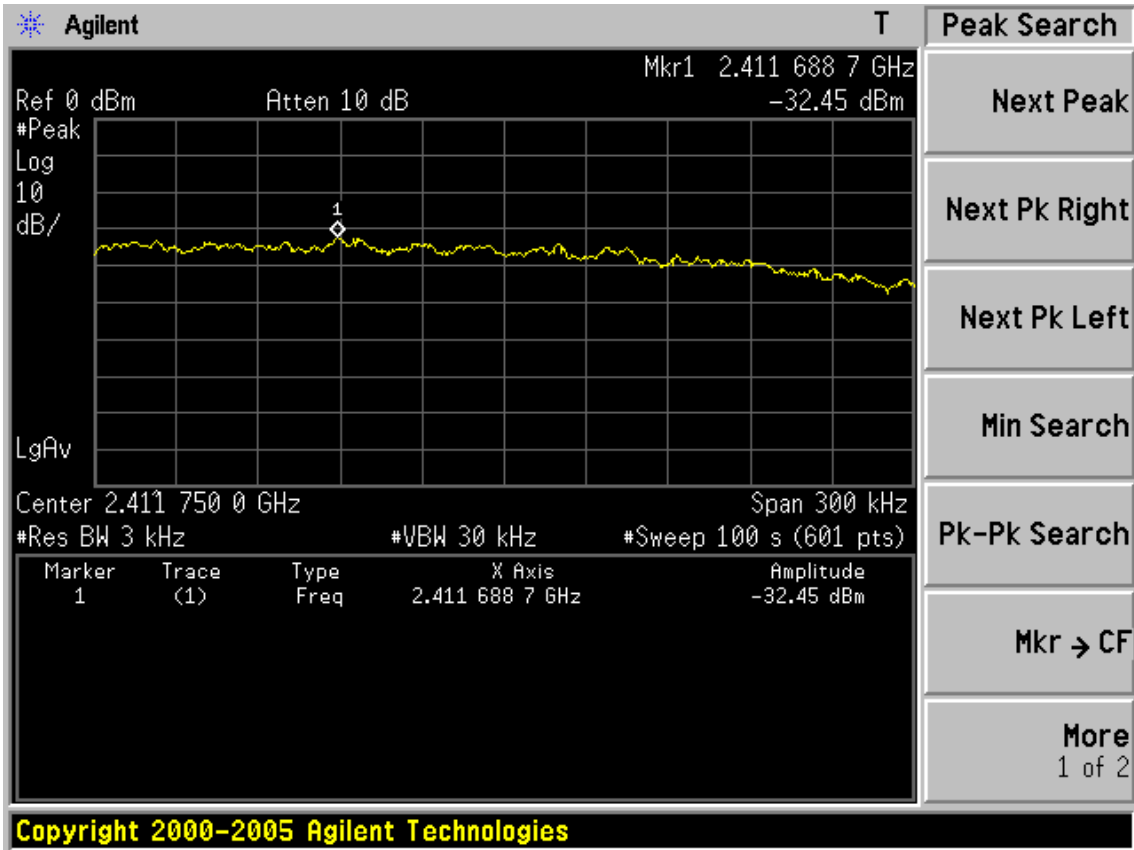


Test CH11: 2462MHz

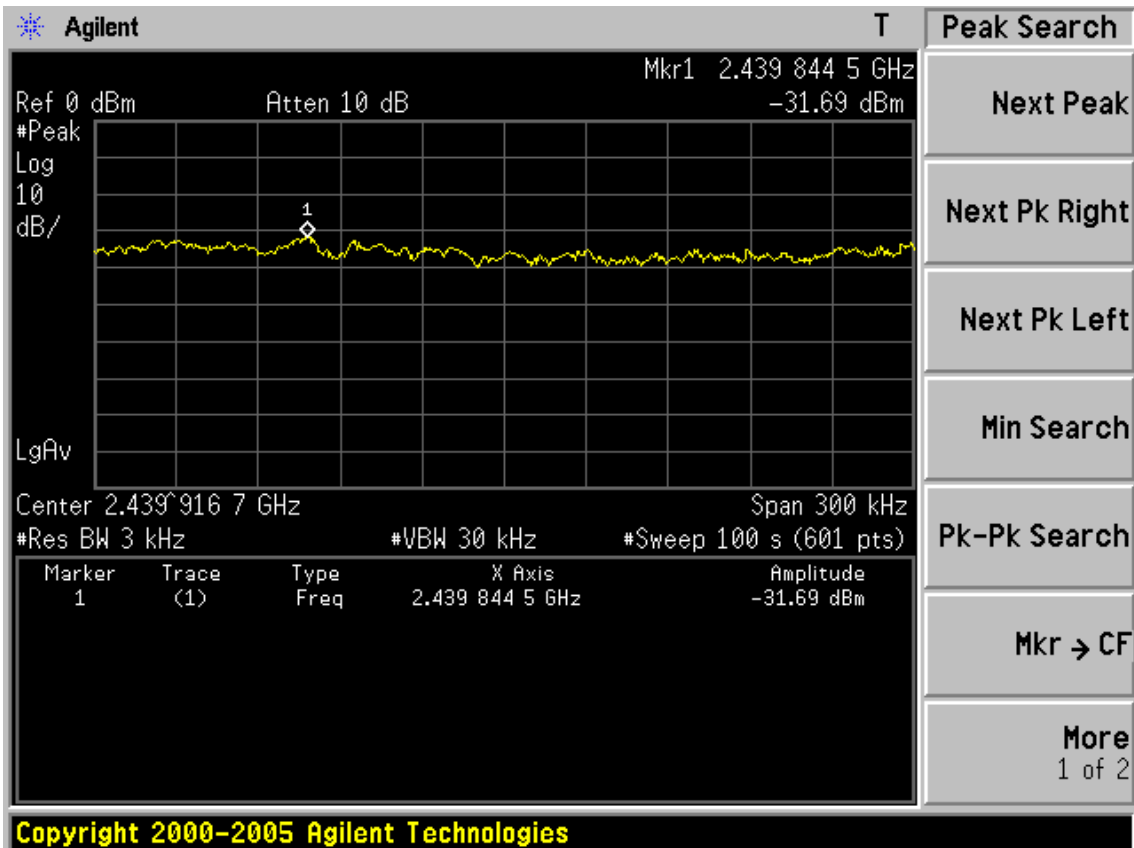


Test Mode: IEEE 802.11n HT20 TX

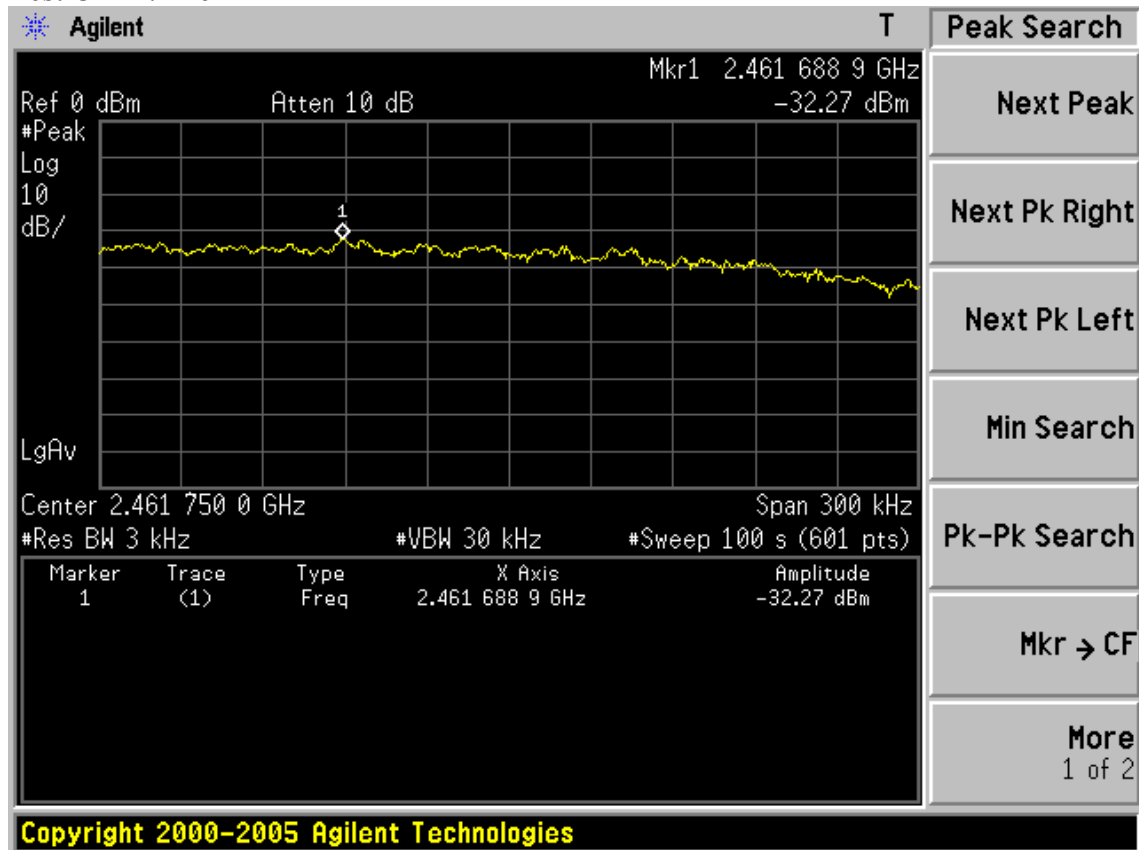
Test CH1: 2412MHz



Test CH6: 2437MHz

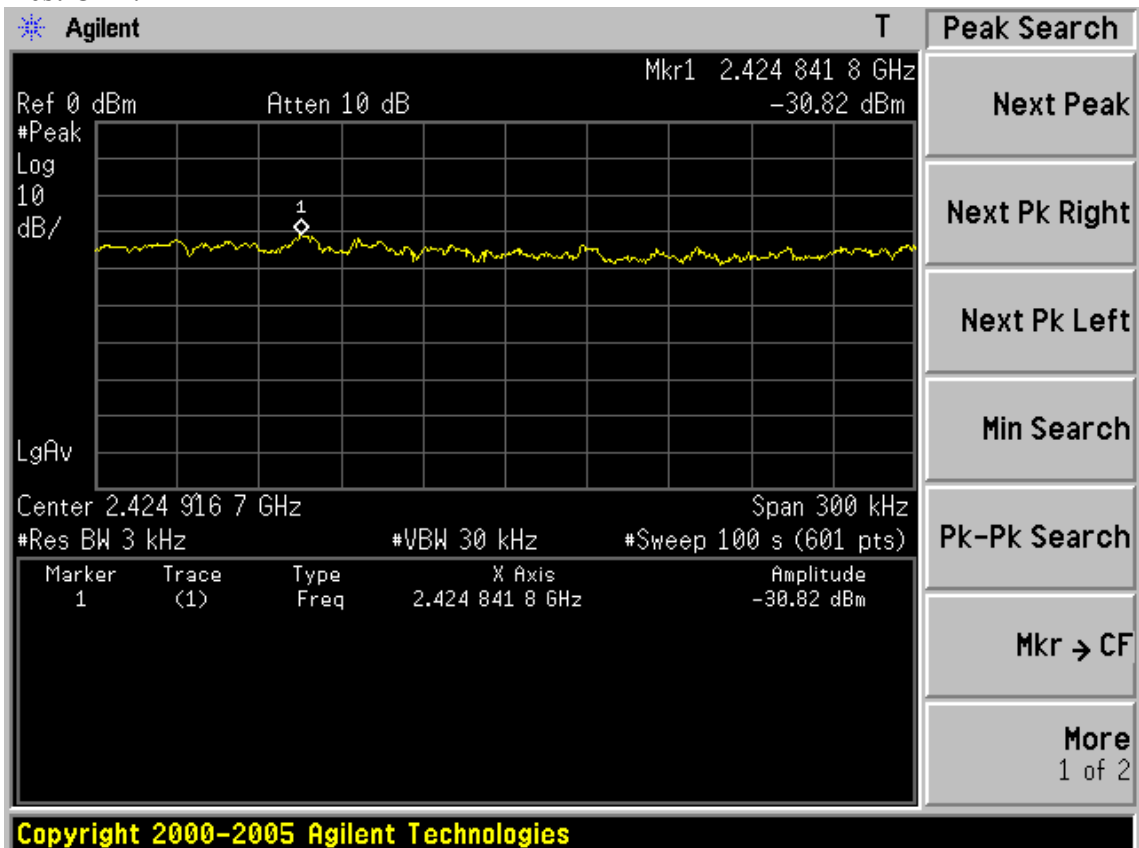


Test CH1: 2462MHz

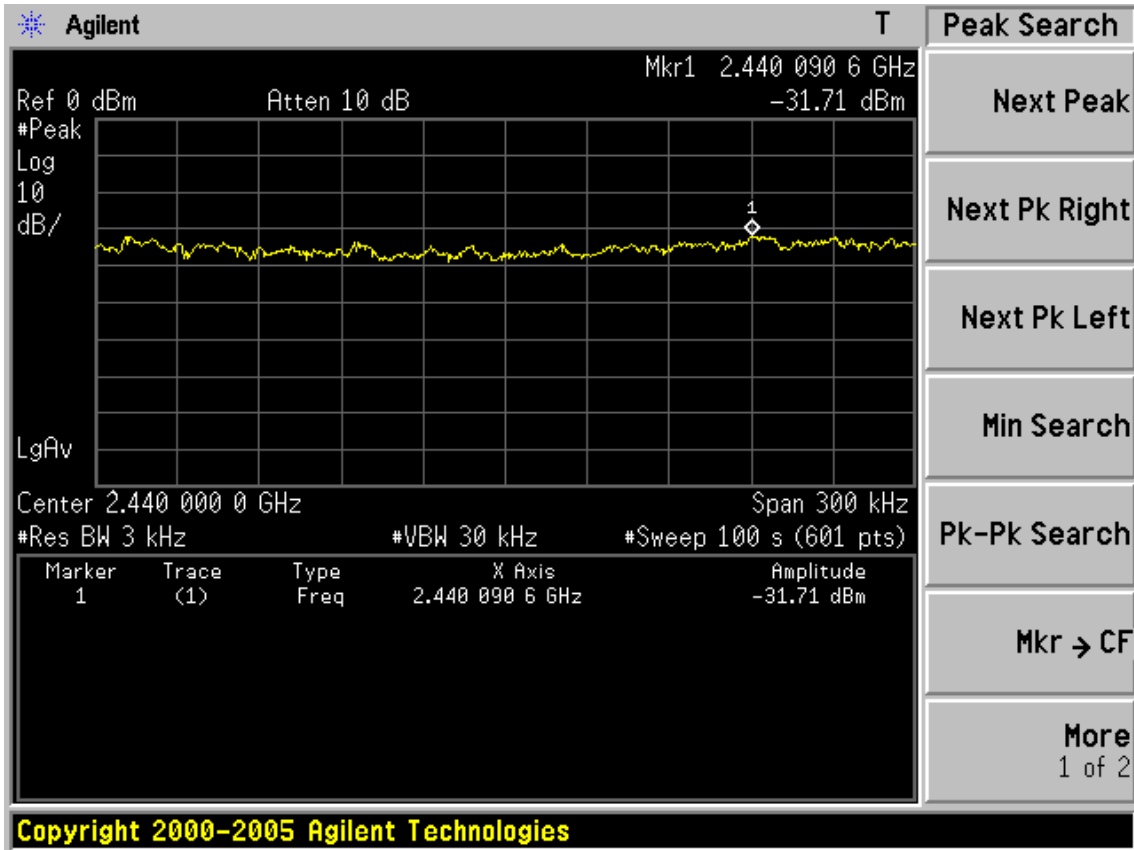


Test Mode: IEEE 802.11n HT40 TX

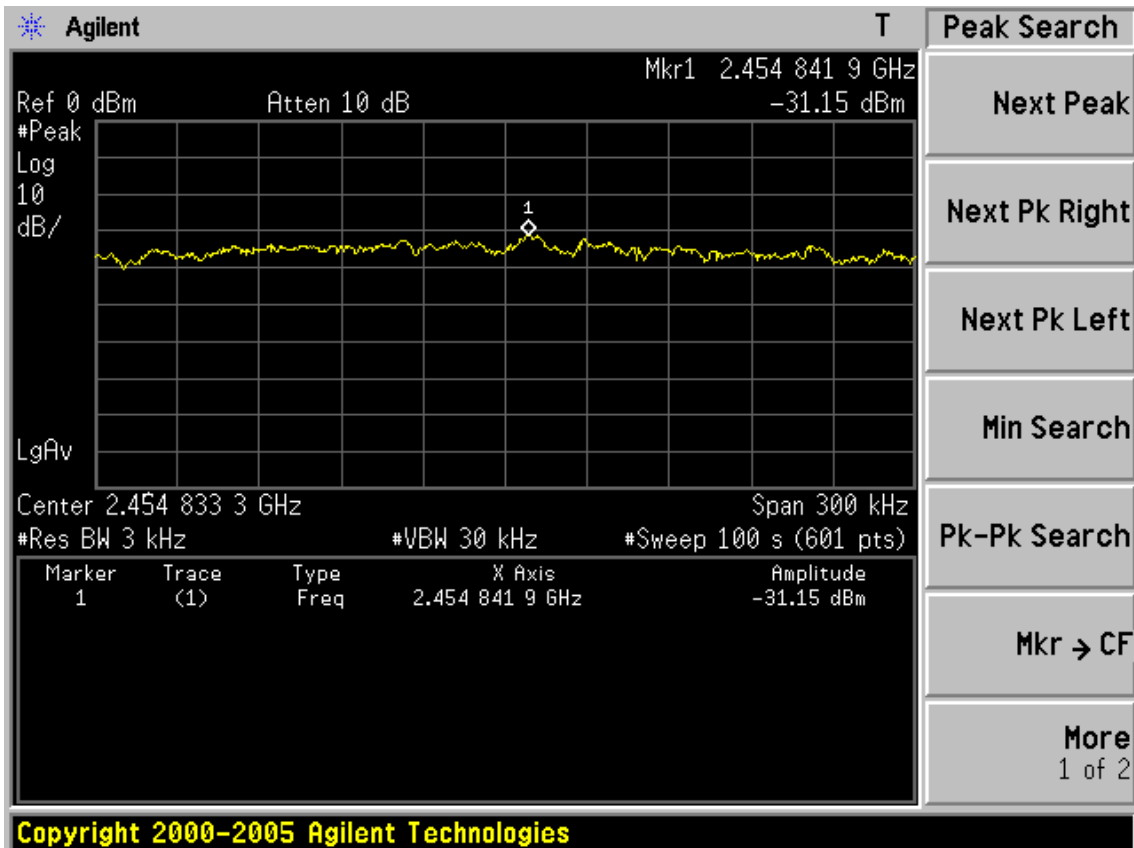
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz





## **10. ANTENNA REQUIREMENT**

### **10.1 STANDARD APPLICABLE**

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

### **10.2 ANTENNA CONNECTED CONSTRUCTION**

The antennas used for this product are integral PCB Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, The maximum peak gain of the transmit antenna is only 0dBi.

## **11.DEVIATION TO TEST SPECIFICATIONS**

[ NONE]

## 12.PHOTOGRAPH OF TEST

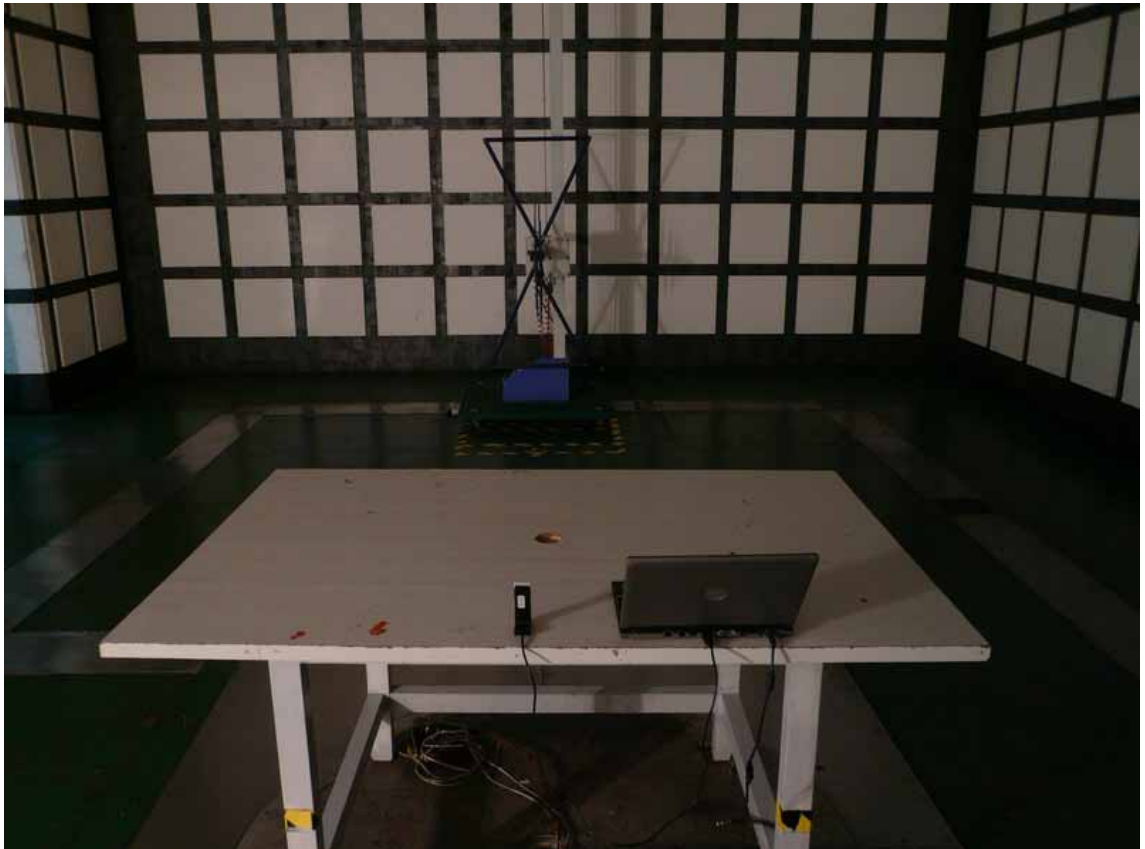
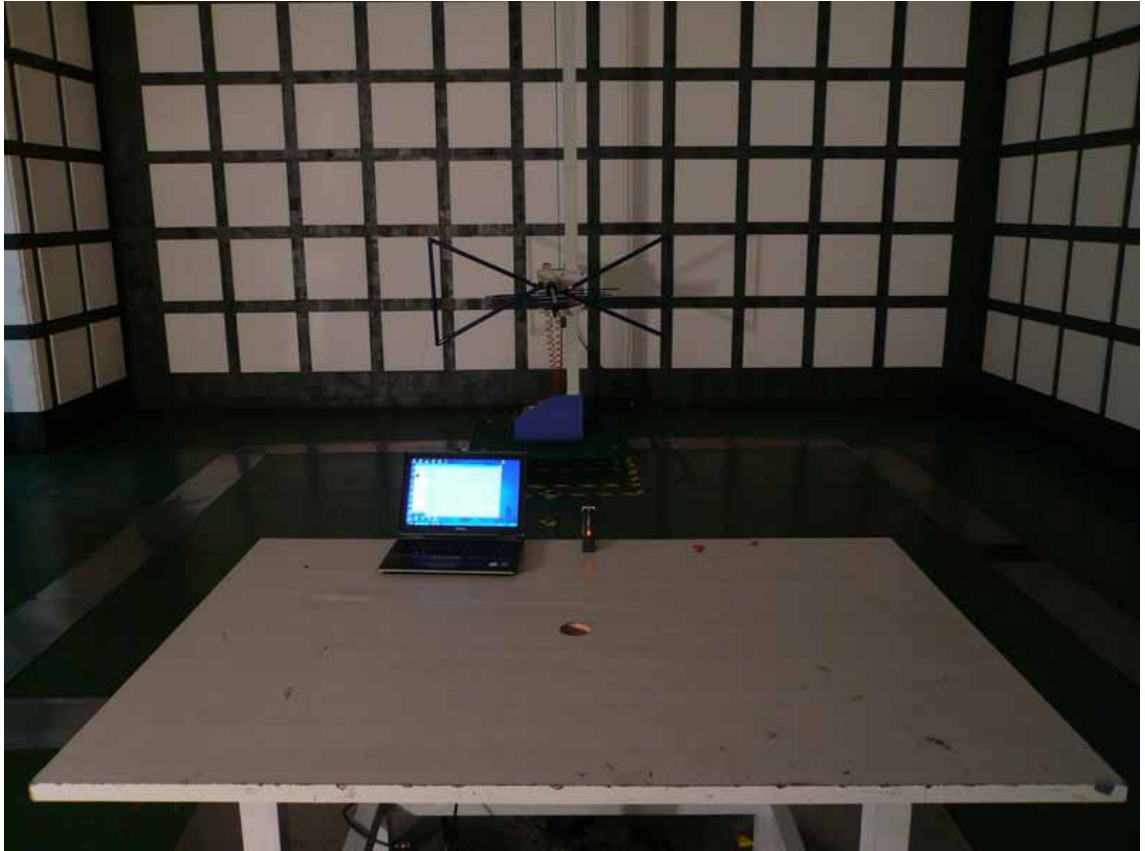
### 12.1.Photos of Power Line Conducted Emission Test



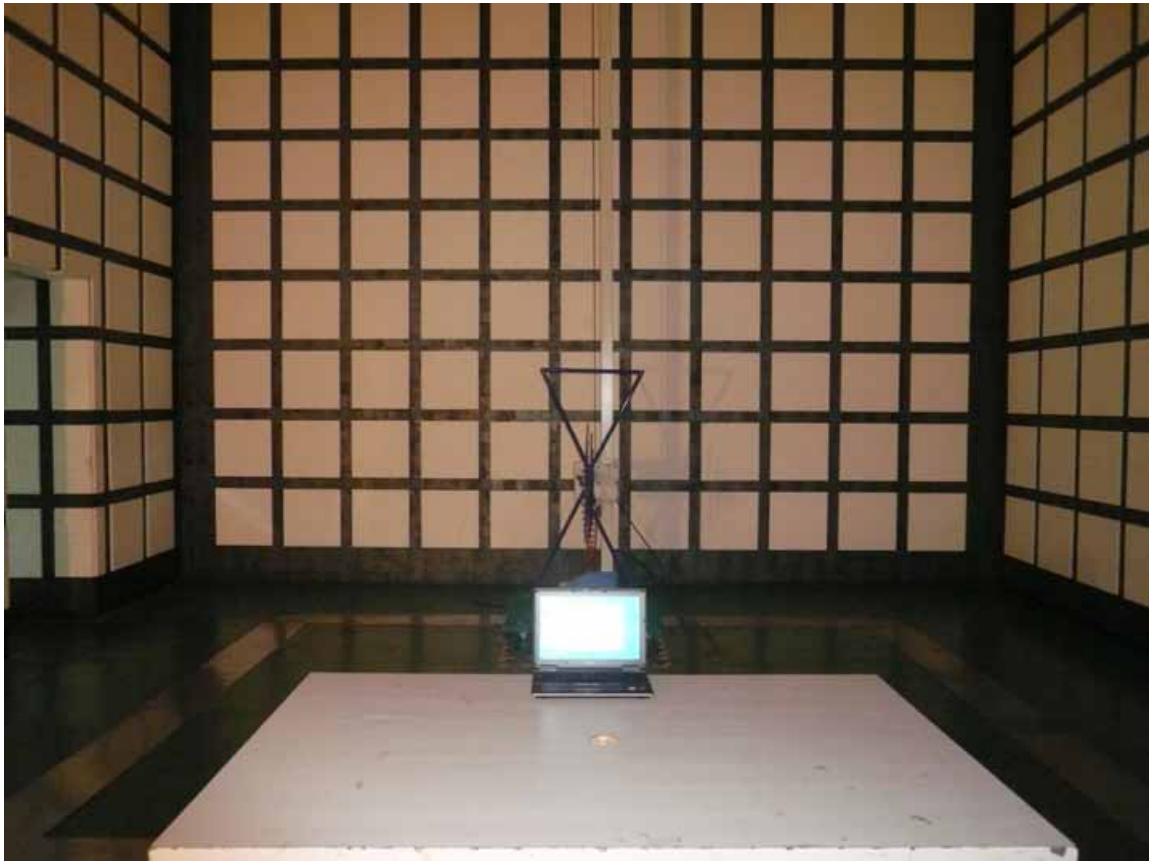
## 12.2.Photos of Radiated Emission Test

(30-1000MHz)

Mode I:



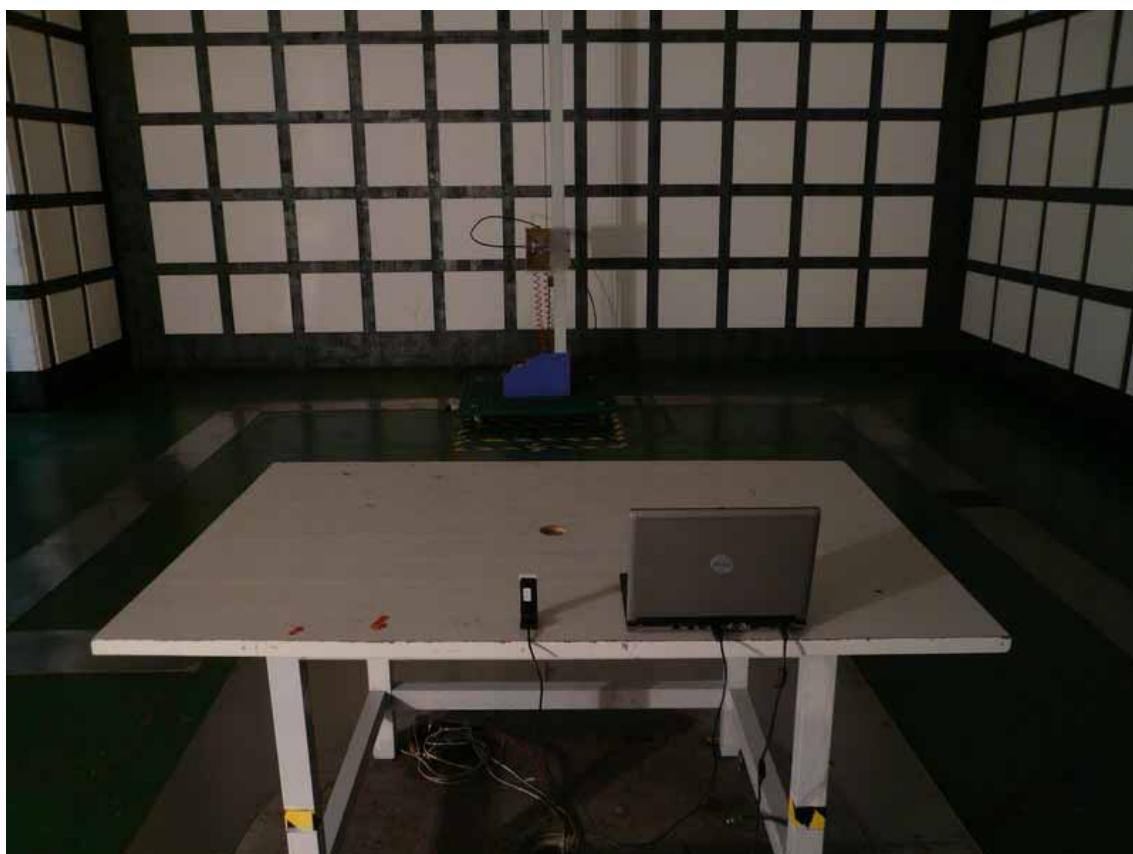
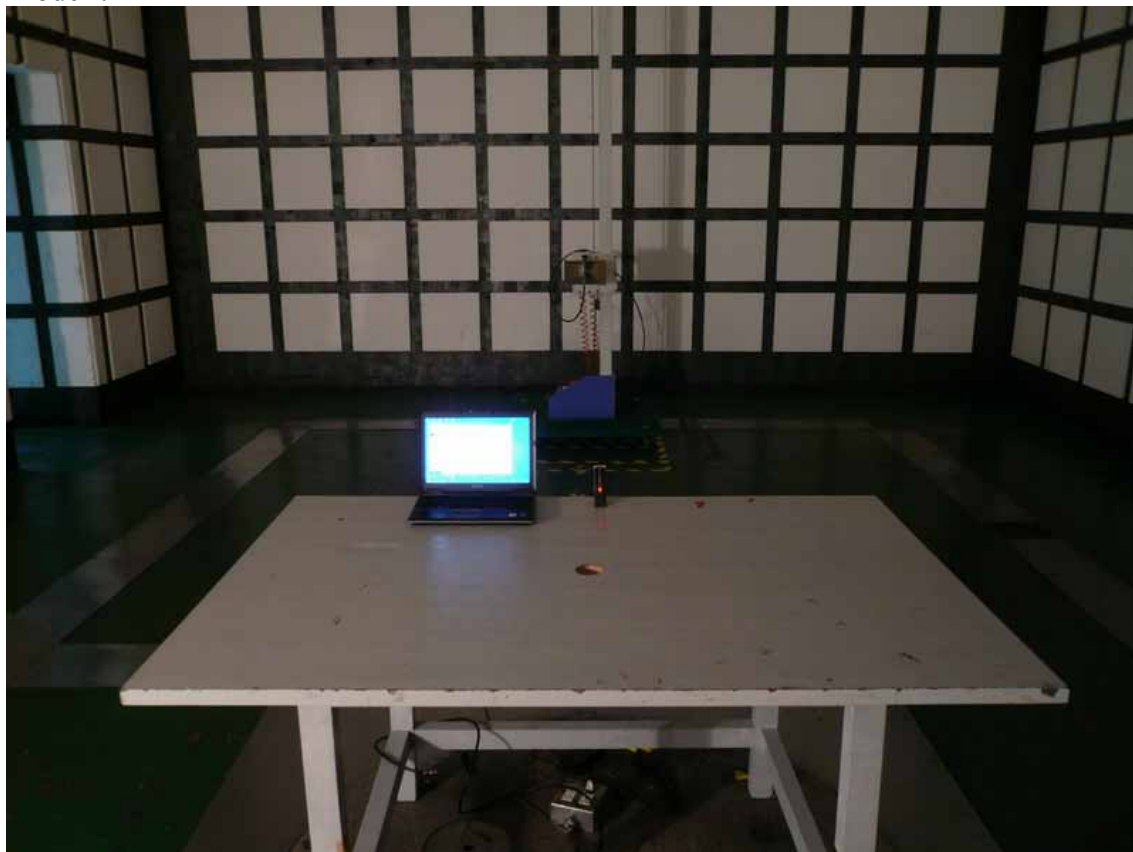
Mode II:





(Above 1000MHz)

Mode I:



Mode II:



### 13.PHOTOGRAPH OF EUT

**Figure 1**  
General Appearance of the EUT

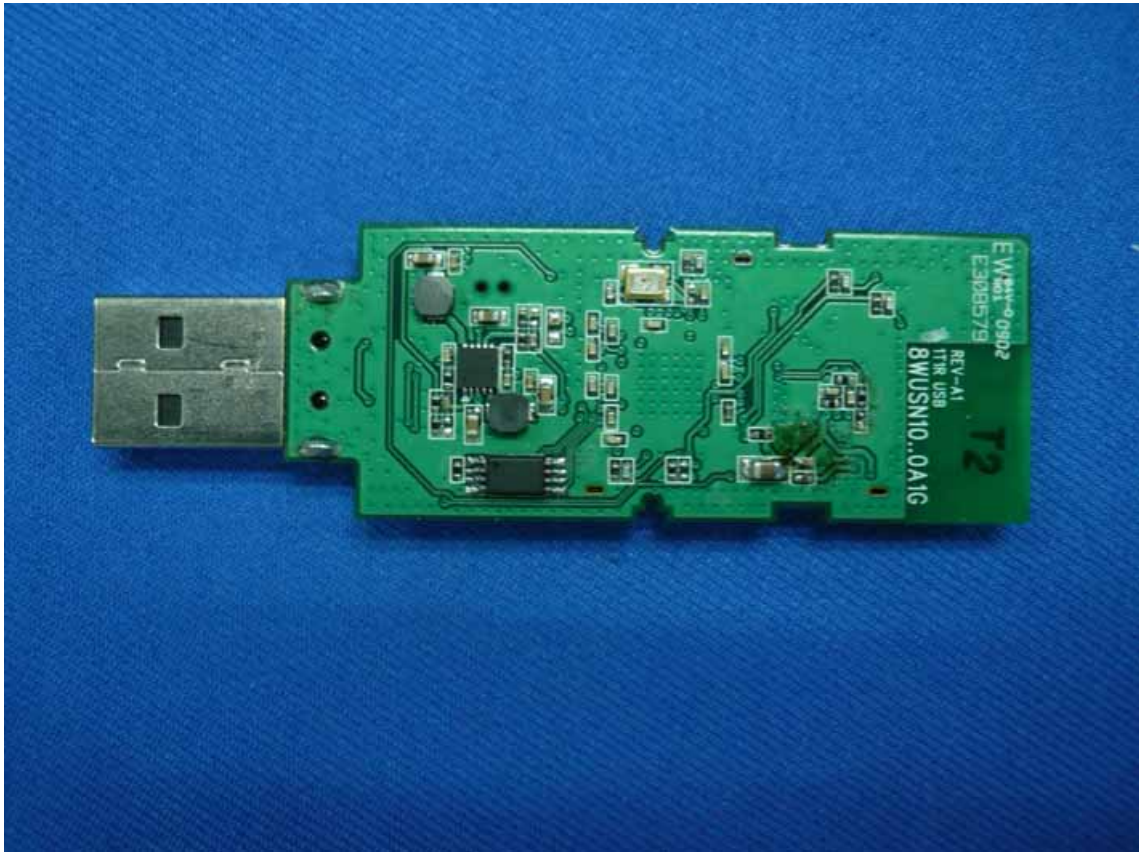


**Figure 2**  
General Appearance of the EUT

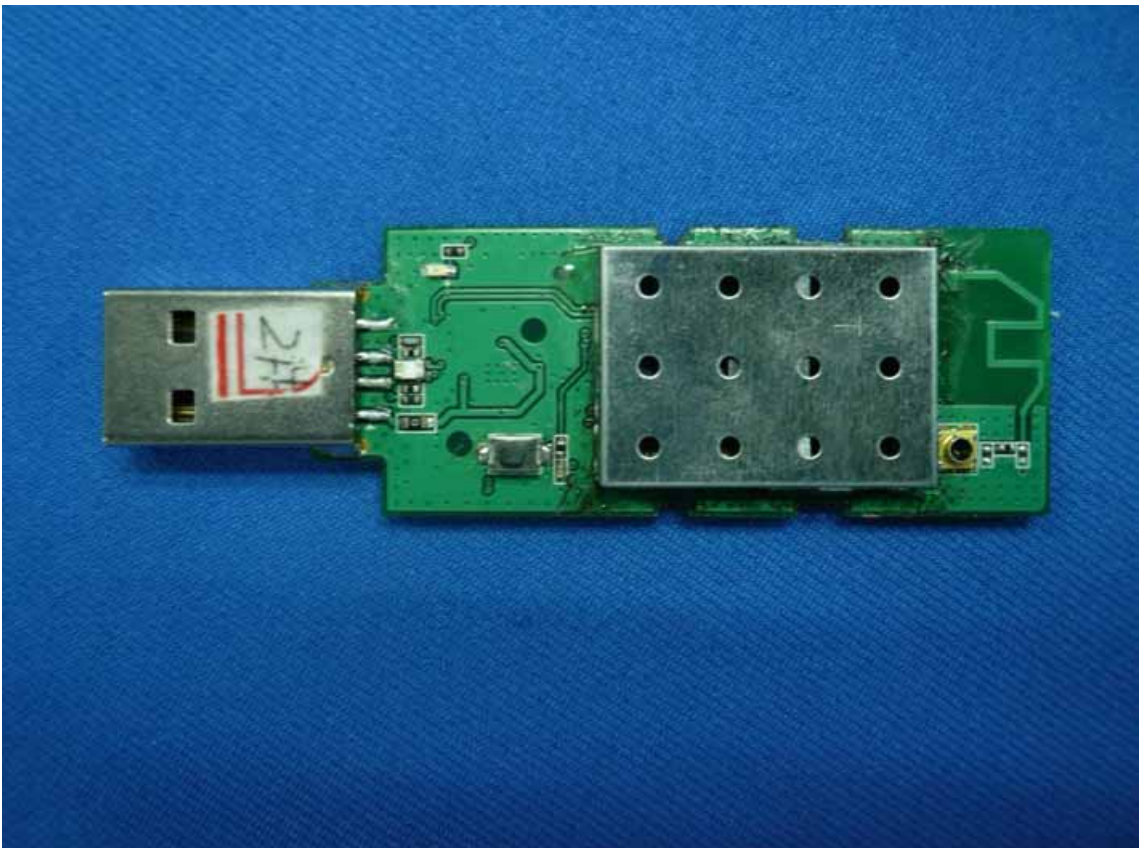




**Figure 3**  
Inside of the EUT



**Figure 4**  
Inside of the EUT



**Figure 5**  
Inside of the EUT

