

APPLICATION FOR CERTIFICATION

On Behalf of

TP-LINK Technologies Co., Ltd.

54M Wireless ADSL2+Router

Model Number: MR0-W8901G

Prepared for : TP-LINK Technologies Co., Ltd.  
Building 7, Second Part, Honghualing Industrial Zone,  
Xili town, Nanshan District, Shenzhen, China

Prepared By : Audix Technology (Shenzhen) Co., Ltd.  
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Report Number : ACS-F08187  
Date of Test : May.22~Jun.02, 2008  
Date of Report : Jun.12, 2008

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## TEST REPORT CERTIFICATION

Applicant : TP-LINK Technologies Co., Ltd.  
 Manufacturer : TP-LINK Technologies Co., Ltd.  
 EUT Description : 54M Wireless ADSL2+Router  
 (A) MODEL NO. : MR0-W8901G  
 (B) SERIAL NO. : N/A  
 (C) POWER SUPPLY : DC 12V From Adapter  
 (D) TEST VOLTAGE : DC12V From Adapter AC 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2007

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 : May.22~Jun.02, 2008

Prepared by : Selina Liu  
Selina Liu / Assistant

Reviewer : Jamy Yu  
Jamy Yu / Senior Engineer

Approved & Authorized Signer :

**AUDIX**® 信華科技(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 6/14/08

Ken Lu / Deputy Manager

# 1. SUMMARY OF STANDARDS AND RESULTS

## 1.1. Description of Standards and Results

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

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.4: 2003 KDB58074	PASS
Radiated Emission Test	FCC Part 15: 15.209 ANSI C63.4: 2003 KDB58074	PASS
6dB Bandwidth Test	FCC Part 15: 15.247 KDB58074	PASS
Output Power Test	FCC Part 15: 15.247 KDB58074	PASS
Band Edge Compliance Test	FCC Part 15: 15.247 KDB58074	PASS
Power Spectral Density Test	FCC Part 15: 15.247 KDB58074	PASS
MPE ESTIMATION	FCC Part 2: 2.1093	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

Product name	:	54M Wireless ADSL2+Router
Model Number	:	MR0-W8901G
Operation frequency	:	2.412GHz-----2.462GHz ISM Band
Channel Number	:	11
Modulation Technology	:	IEEE 802.11b/g
Data Rate	:	IEEE 802.11b: 11/5.5/2/1Mbps. IEEE 802.11g: 54/48/36/24/18/12/9/6Mbps.
Output power	:	23.22Bm(Maximum PK measured)
Power	:	DC 12V from adapter AC 120V/60Hz
Antenna Assembly Gain	:	3dBi (maximum)
Applicant	:	TP-LINK Technologies Co., Ltd. Building 7, Second Part, Honghualing Industrial Zone, Xili town, Nanshan District, Shenzhen, China
Manufacturer	:	TP-LINK Technologies Co., Ltd. Building 7, Second Part, Honghualing Industrial Zone, Xili town, Nanshan District, Shenzhen, China
Power Adapter	:	Manufacture: LEADER ELECTRONICS INC. M/N: MT12-4120100-A1 Cable: Unshielded, Detectable, 2.0m
Date of Test	:	May.22~Jun.02, 2008
Date of Receipt	:	May.20, 2008
Sample Type	:	Prototype production

## 2.2. Tested Supporting System Details

### 2.2.1. NOTEBOOK

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

### 2.2.2. CABLE

Lan Cable : Unshielded, Detachabled, 10m  
 Lan Cable : Unshielded, Detachabled, 1.5m

## 2.3. Data rate VS power

Mode	Data rate(Mbps)	CH	Level (dBm)	Limit (dBm)
11b	1	CH6	<b>18.69</b>	<b>30</b>
	2	CH6	<b>18.34</b>	<b>30</b>
	5.5	CH6	<b>18.17</b>	<b>30</b>
	11	CH6	<b>18.09</b>	<b>30</b>
11g	6	CH6	<b>23.10</b>	<b>30</b>
	9	CH6	<b>22.24</b>	<b>30</b>
	12	CH6	<b>23.01</b>	<b>30</b>
	18	CH6	<b>22.45</b>	<b>30</b>
	24	CH6	<b>22.97</b>	<b>30</b>
	36	CH6	<b>22.42</b>	<b>30</b>
	48	CH6	<b>22.89</b>	<b>30</b>
	54	CH6	<b>22.11</b>	<b>30</b>
When IEEE 802.11b's data rate was 1Mbps ; IEEE 802.11g's data rate is 6Mbps, the EUT have maximum output power and all the test was performed in this data rate set.				

## 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 : Jun. 13, 2006 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  
Dec.20, 2007

Accredited by NVLAP, USA  
NVLAP Code: 200372-0  
Apr. 01, 2007

## 2.5. Measurement Uncertainty

No.	Item	Uncertainty
1.	Uncertainty for Conducted Emission Test	1.22dB
2.	Uncertainty for Radiated Emission Test<1GHz	4.62dB
3.	Uncertainty for Radiated Emission Test>1GHz	4.79dB
4.	Uncertainty for Frequency measure	$0.42 \times 10^{-6}$
5.	Uncertainty for conducted power measure	0.112



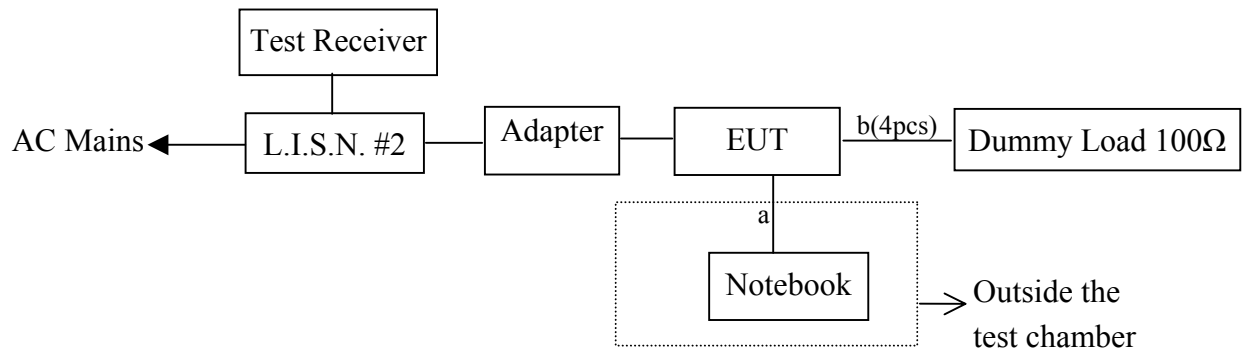
### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	844077/020	Mar.07, 08	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 10,08	1 Year
3.	Terminator	Hubersuhner	50Ω	No. 1	May 10,08	1 Year
4.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	Jan.09, 08	1/2 Year
5.	Coaxial Switch	Anritsu	MP59B	M55367	Jan.09, 08	1/2 Year
6.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Jan.09, 08	1/2 Year

#### 3.2. Block Diagram of Test Setup

##### 3.2.1. Block diagram of connection between the EUT and simulators



a: Lan Cable 10m  
b: Lan Cable 1.5m

*(EUT: 54M Wireless ADSL2+Router)*

#### 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. 54M Wireless ADSL2+Router (EUT)

Model Number : MR0-W8901G  
 Serial Number : N/A  
 Manufacturer : TP-LINK Technologies Co., Ltd.

#### 3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2..

### 3.5.Operating Condition of EUT

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

3.5.2. Turn on the power of all equipment.

3.5.3. Notebook ran the Control program with a LAN port of the EUT through Lan cable, which can make the EUT work in test mode (TX mode)

3.5.4. The other ports of the EUT connected with 100Ω Dummy Load.

### 3.6.Test Procedure

The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. Power on the PC and let it work normally, we use a keyboard test soft ware, 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 ESHS10) 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.)

The EUT with the following test modes was tested and selected (mode 1) to read Q.P values and average values, all the test results are listed in next pages.

EUT: 54M Wireless ADSL2+Router      Model No. : MR0-W8901G

Test Date: Jun.02, 2008      Temperature: 23℃      Humidity: 54%

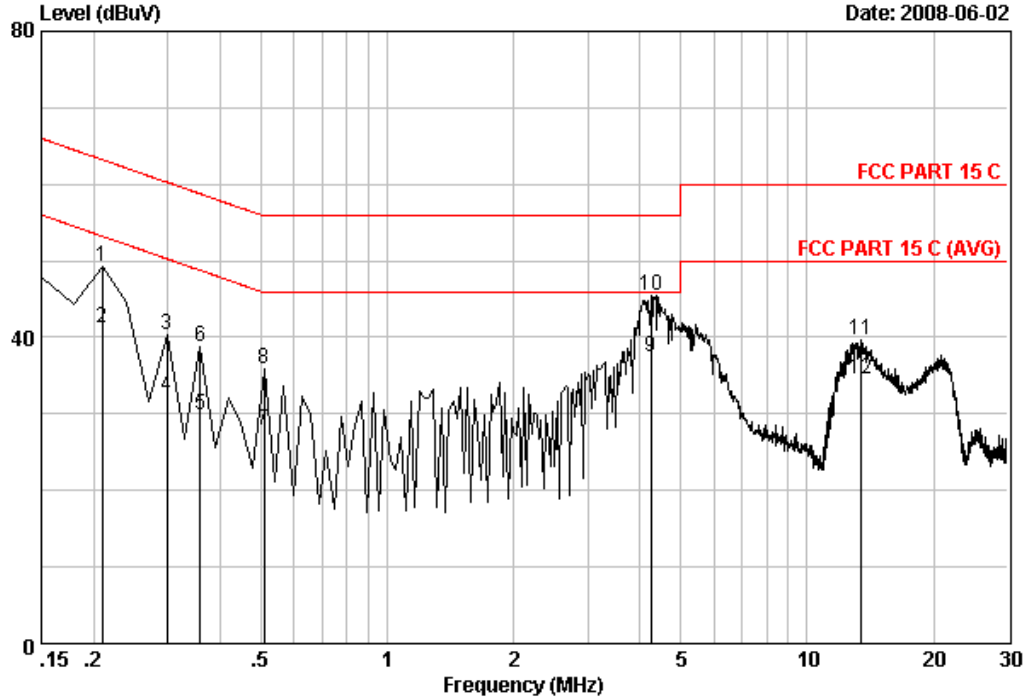
The details of test modes are as follows :

No.	Test Mode	Reference Test Data No.	
		VA	VB
1.	TX Mode	# 1	# 2



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Data: 1 File: D:\emc 002\DATA\2008 Report\T\TP-LINK\ACS8Q729.EMI (4)



Site no :Audix No.1 Conduction Data no :1  
 Dis./Ant. :-- KNW407 1# VA  
 Limit :FCC PART 15 C  
 Env./Ins. :Temp:23' Humi:54% Engineer :Jamy  
 EUT :54M Wireless ADSL2+Router  
 Power Rating :DC 12V From Adapter AC 120V/60Hz  
 Test Mode :Tx Mode  
 M/N :MRO-W8901G

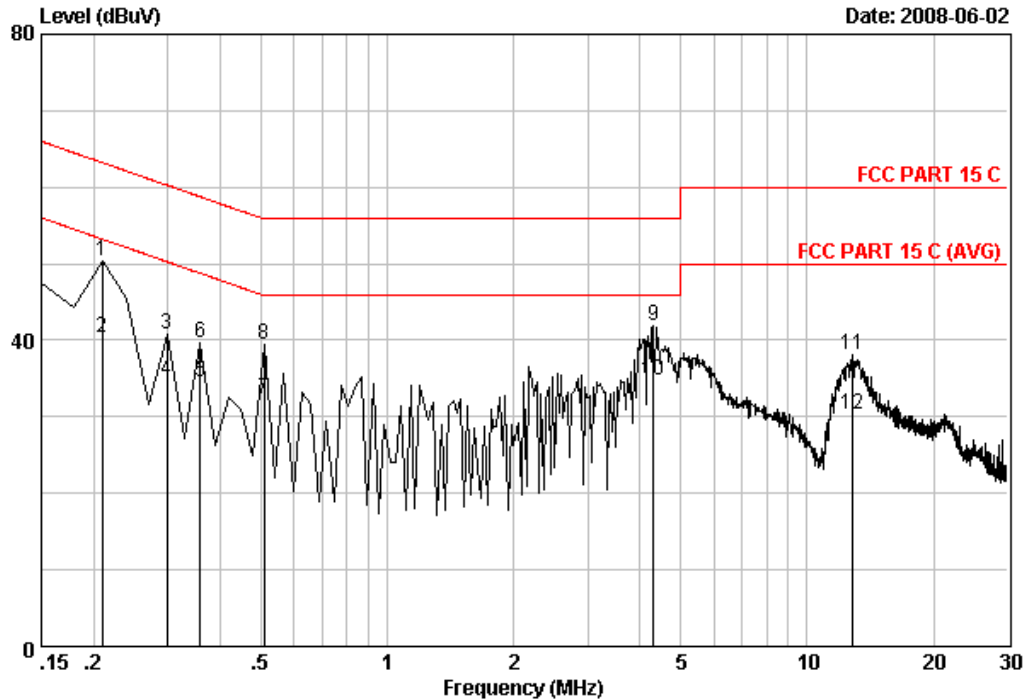
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.21	0.29	10.15	38.82	49.26	63.22	13.96	QP
2	0.21	0.29	10.15	30.82	41.26	53.22	11.96	Average
3	0.30	0.26	10.15	30.00	40.41	60.26	19.85	QP
4	0.30	0.26	10.15	22.00	32.41	50.26	17.85	Average
5	0.36	0.24	10.14	19.40	29.78	48.75	18.97	Average
6	0.36	0.24	10.14	28.40	38.78	58.75	19.97	QP
7	0.51	0.20	10.14	17.61	27.95	46.00	18.05	Average
8	0.51	0.20	10.14	25.61	35.95	56.00	20.05	QP
9	4.24	0.10	10.18	27.26	37.54	46.00	8.46	Average
10	4.24	0.10	10.18	35.26	45.54	56.00	10.46	QP
11	13.49	0.27	10.27	29.03	39.57	60.00	20.43	QP
12	13.49	0.27	10.27	24.03	34.57	50.00	15.43	Average

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



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Data: 2 File: D:\emc 002\DATA\2008 Report\T\TP-LINK\ACS8Q729.EMI (4)



Site no :Audix No.1 Conduction Data no :2  
 Dis./Ant. :-- KNW407 1# VB  
 Limit :FCC PART 15 C  
 Env./Ins. :Temp:23' Humi:54% Engineer :Jamy  
 EUT :54M Wireless ADSL2+Router  
 Power Rating :DC 12V From Adapter AC 120V/60Hz  
 Test Mode :Tx Mode  
 M/N :MRO-W8901G

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.21	0.11	10.15	40.05	50.31	63.22	12.91	QP
2	0.21	0.11	10.15	30.05	40.31	53.22	12.91	Average
3	0.30	0.14	10.15	30.54	40.83	60.26	19.43	QP
4	0.30	0.14	10.15	24.54	34.83	50.26	15.43	Average
5	0.36	0.16	10.14	24.28	34.58	48.75	14.17	Average
6	0.36	0.16	10.14	29.28	39.58	58.75	19.17	QP
7	0.51	0.20	10.14	22.03	32.37	46.00	13.63	Average
8	0.51	0.20	10.14	29.03	39.37	56.00	16.63	QP
9	4.30	0.04	10.18	31.64	41.86	56.00	14.14	QP
10	4.30	0.04	10.18	24.64	34.86	46.00	11.14	Average
11	12.84	0.20	10.27	27.74	38.21	60.00	21.79	QP
12	12.84	0.20	10.27	19.74	30.21	50.00	19.79	Average

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

## 4. RADIATED EMISSION TEST

### 4.1. Test Equipment

The following test equipments are used during the radiated emission test:

#### 4.1.1. For Anechoic Chamber

Frequency rang: 30~1000MHz

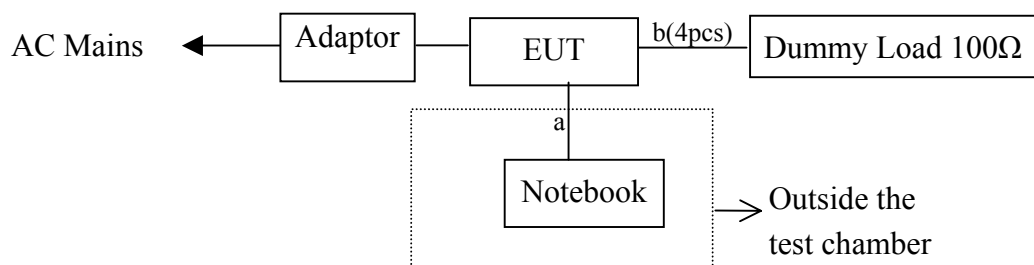
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Jun.09,08	1/2 Year
2	EMI Spectrum	Agilent	E7403A	MY42000106	May 10, 08	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 10, 08	1 Year
4	Amplifier	HP	8447D	2648A04738	Jan.09, 08	1/2 Year
5	Bilog Antenna	Schaffner	CBL6112D	25237	Feb.21, 08	1 Year
6	RF Cable	JINGCHENG	KLMR400	3# Chamber No.1	Jan. 09, 08	1/2 Year
7	RF Cable	JINGCHENG	JBY400	3# Chamber No.2	Jan. 09, 08	1/2 Year
8	RF Cable	JINGCHENG	JBY400	3# Chamber No.3	Jan. 09, 08	1/2 Year
9	RF Cable	JINGCHENG	JBY400	3# Chamber No.4	Jan. 09, 08	1/2 Year
10	Coaxial Switch	Anritsu	MP59B	M73989	Jan. 09, 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	3008A00863	May 10, 08	1 Year
3.	Antenna	EMCO	3115	9607-4877	May 27, 08	1.5 Year
4.	Antenna	EMCO	3116	6088	May.28,07	1.5 Year
5.	Antenna	EMCO	3116	6089	May.28,07	1.5 Year
6.	HF Cable	Hubersuhne	Sucoflex104	-	May 28, 08	1 Year

### 4.2. Block Diagram of Test Setup

#### 4.2.1. Block diagram of connection between the EUT and simulators

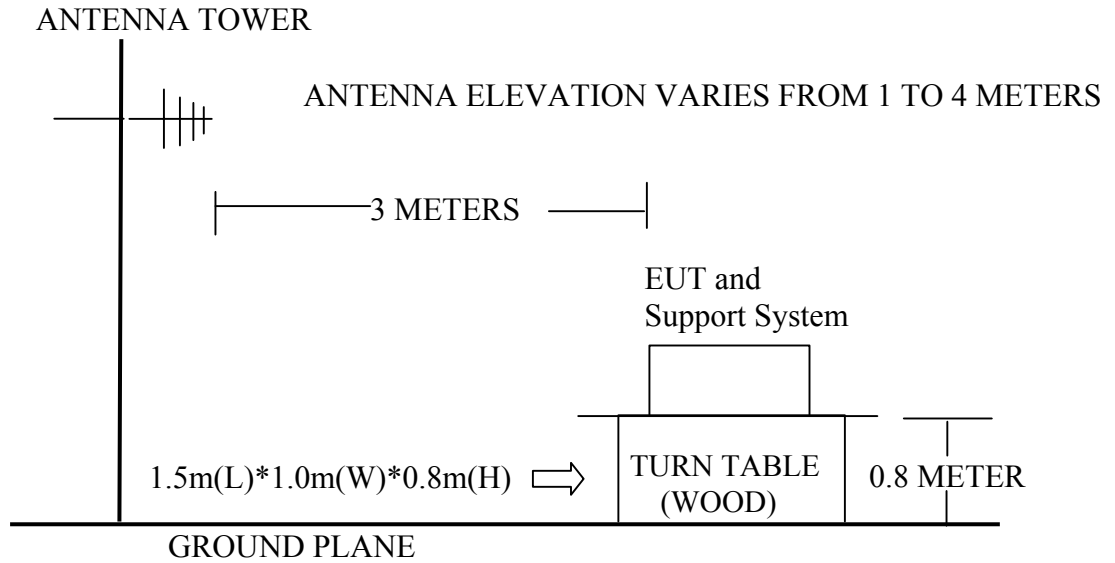


a: Lan Cable 10m

b: Lan Cable 1m

**(EUT: 54M Wireless ADSL2+Router)**

4.2.2. In Anechoic Chamber



4.3. Radiated Emission Limit

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

- Remark :
- (1) Emission level = Antenna Factor + Cable Loss + Reading
  - (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.

4.4. 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. 54M Wireless ADSL2+Router (EUT)

Model Number : MR0-W8901G  
 Serial Number : N/A  
 Manufacturer : TP-LINK Technologies Co., Ltd.

4.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2.

#### 4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2. Turn on the power of all equipment.
- 4.5.3. Notebook ran the Control program with a LAN port of the EUT through Lan cable, which can make the EUT work in test mode (TX mode)
- 4.5.4. The other ports of the EUT connected with 100Ω Dummy Load.

#### 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 ESVS20) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW 10Hz VBW for average emission above 1GHz

The frequency range from 30MHz to 10<sup>th</sup> harmonic are checked.

#### 4.7. Radiated Emission Test Results

**PASS.**

The frequency range from 30MHz to 1000MHz and above 1GHz is investigated. Please see the following pages.

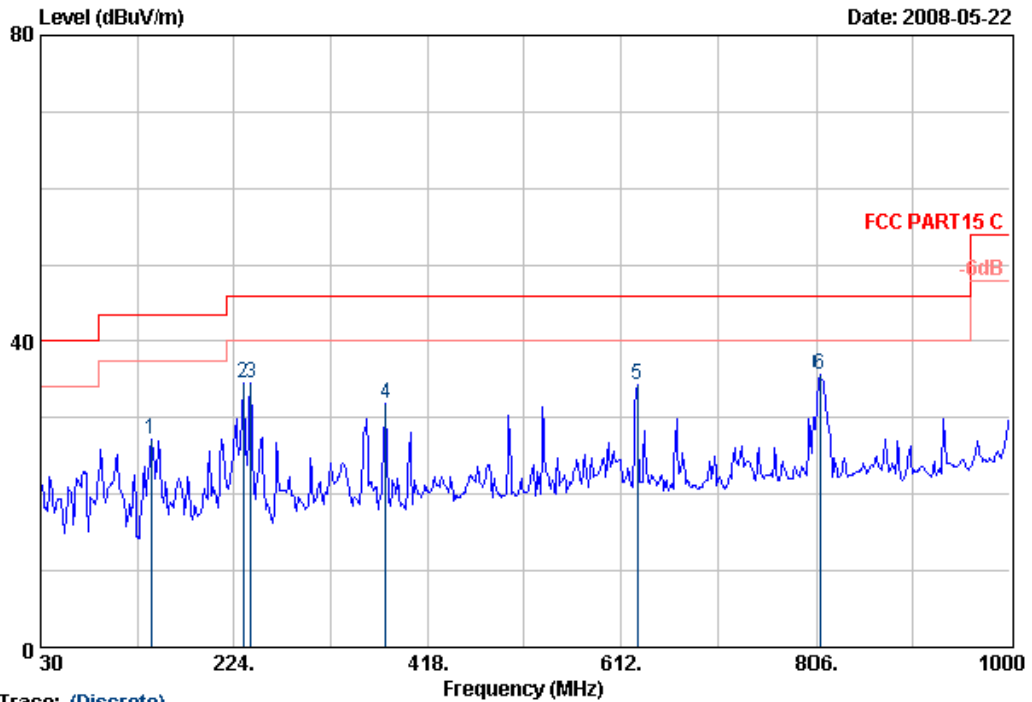
All the emissions 1GHz~4GHz and 18GHz~25GHz are peak measured and comply with average limit.

Frequency: 30MHz~1GHz



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Postcode: 518057

Data: 4 File: D:\2008 Report Data\T\TP-LINK\ACS8Q729.EMI (4)



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 4  
 Dis. / Ant. : 3m CBL6112D Ant. pol. : HORIZONTAL  
 Limit : FCC PART15 C  
 Env. / Ins. : 24°C/56% ESVS20 Engineer : Power  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating : DC 12V From Adapter AC 120V/60Hz  
 Test Mode : TX  
 M/N: MRO-W8901G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	140.58	11.10	0.88	42.86	27.16	43.50	16.34	Peak
2	232.73	10.41	1.16	50.21	34.48	46.00	11.52	Peak
3	240.49	11.18	1.20	49.38	34.53	46.00	11.47	Peak
4	376.29	14.38	1.50	43.69	31.88	46.00	14.12	Peak
5	628.49	18.76	2.08	42.07	34.32	46.00	11.68	Peak
6	809.88	19.50	2.42	42.36	35.55	46.00	10.45	Peak

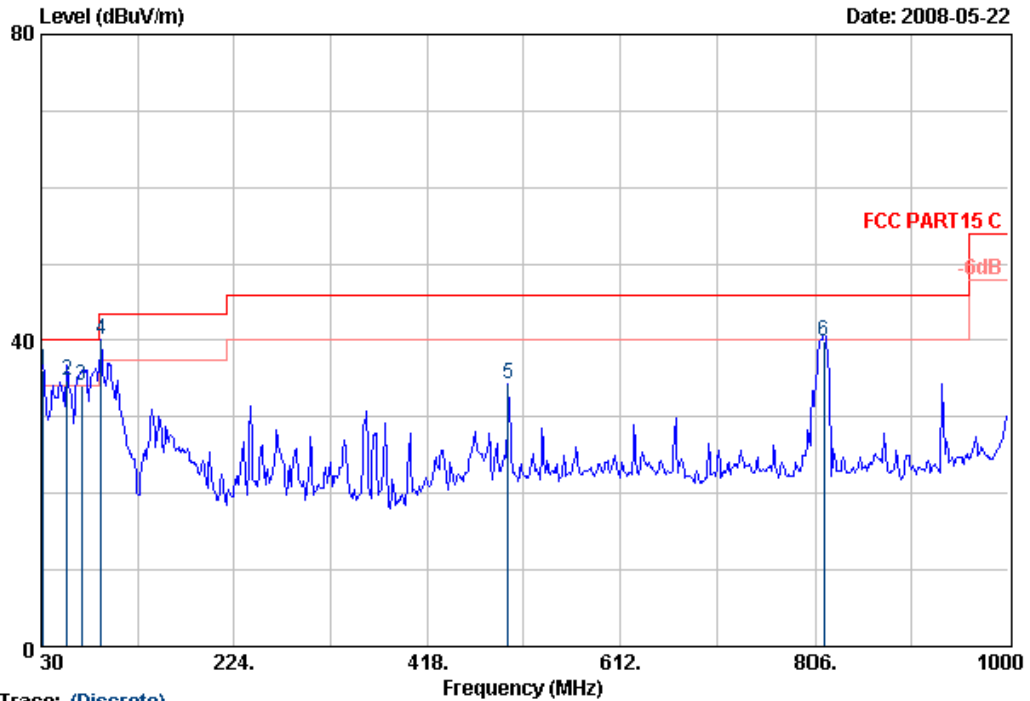
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 3 File: D:\2008 Report Data\T\TP-LINK\ACS8Q729.EMI (4)



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 3  
 Dis. / Ant. : 3m CBL6112D Ant. pol. : VERTICAL  
 Limit : FCC PART15 C  
 Env. / Ins. : 24°C/56% ESVS20 Engineer : Power  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating : DC 12V From Adapter AC 120V/60Hz  
 Test Mode : TX  
 M/N: MRO-W8901G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	18.40	0.54	17.23	36.17	40.00	3.83	QP
2	56.19	7.05	0.56	27.06	34.67	40.00	5.33	QP
3	70.74	6.45	0.62	27.01	34.08	40.00	5.92	QP
4	90.36	9.46	0.73	30.00	40.19	43.50	3.31	QP
5	499.48	17.76	1.83	14.63	34.22	46.00	11.78	QP
6	814.73	19.59	2.33	17.94	39.86	46.00	6.14	QP

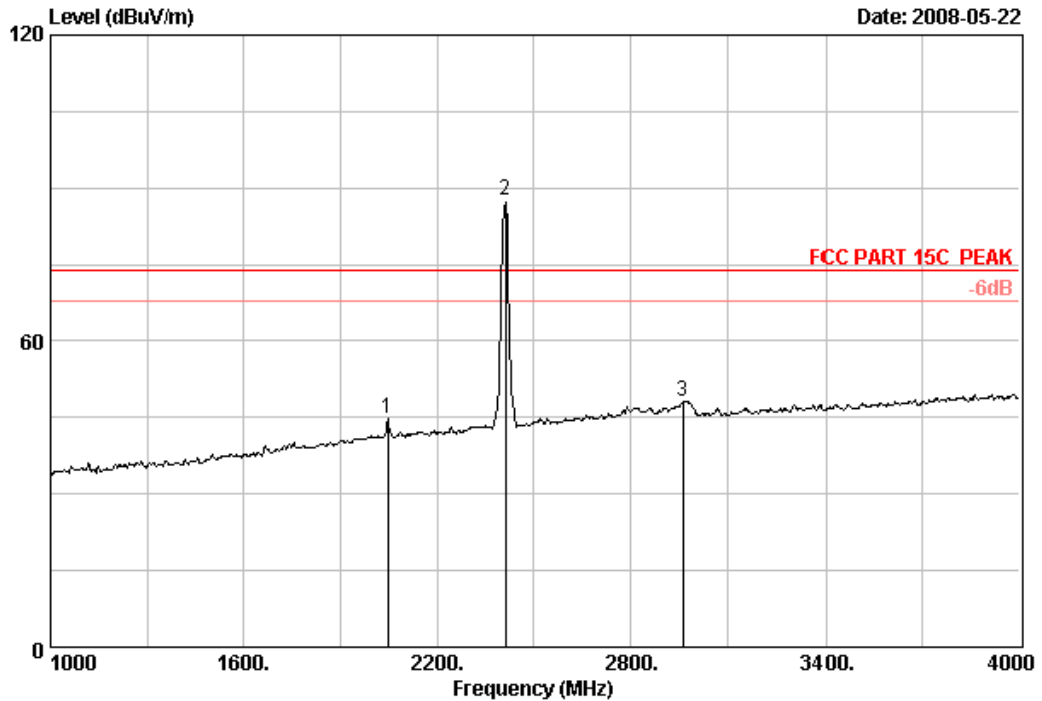
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~4GHz



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Data: 1 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 1  
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11b CH1:2412MHz Tx

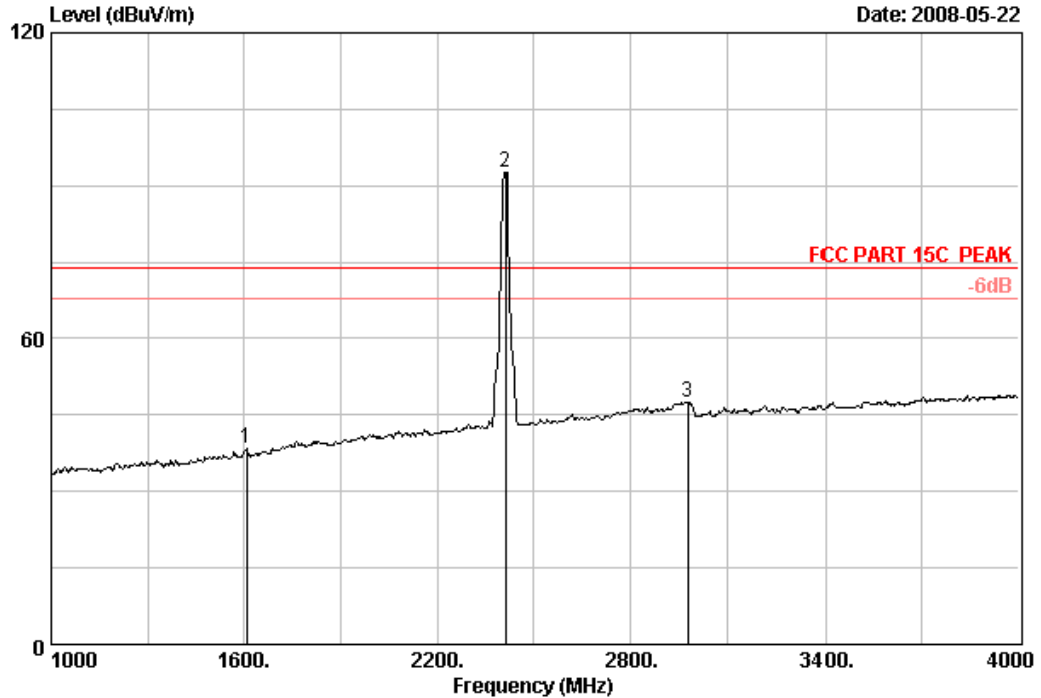
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark	
				Reading (dBuV)	Level (dBuV/m)				
1	2047.00	28.18	6.25	35.28	45.60	44.75	74.00	29.25	Peak
2	2412.00	29.03	6.73	35.18	86.93	87.51	74.00	-13.51	Peak
3	2962.00	30.82	7.62	35.01	44.83	48.26	74.00	25.74	Peak

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



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Data: 2 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 2  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx

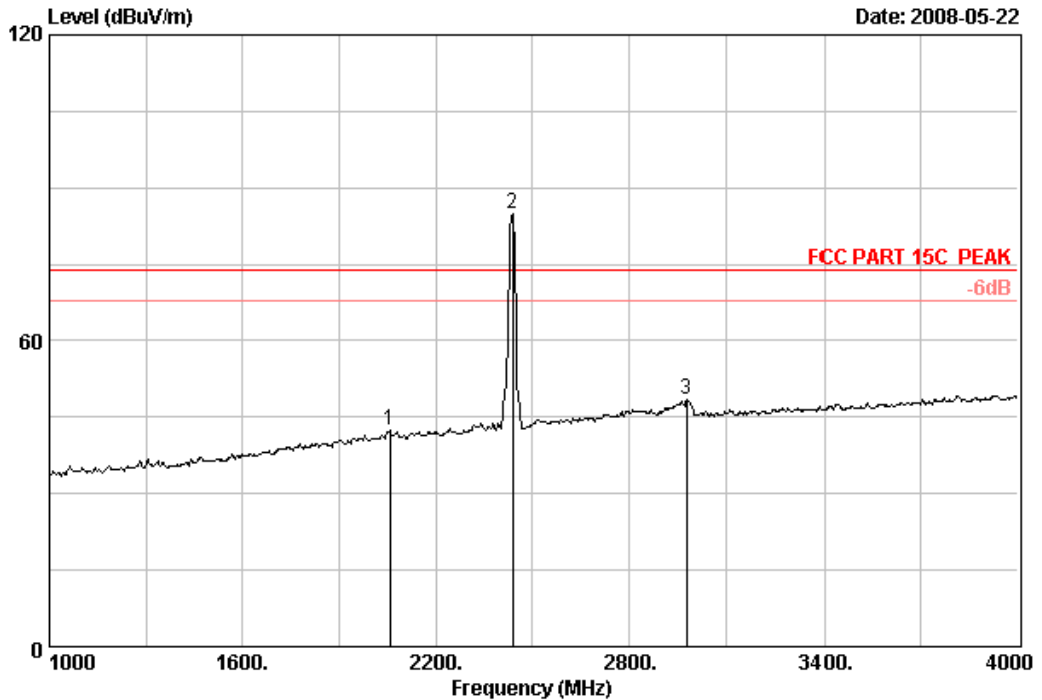
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1	26.00	5.46	35.66	42.57	38.37	74.00	35.63	Peak
2	29.03	6.73	35.18	92.13	92.71	74.00	-18.71	Peak
3	30.88	7.66	35.01	44.08	47.61	74.00	26.39	Peak

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: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 4  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx

	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	28.18	6.28	35.28	43.28	42.46	74.00	31.54	Peak
2	29.11	6.80	35.17	84.14	84.88	74.00	-10.88	Peak
3	30.88	7.66	35.01	45.05	48.58	74.00	25.42	Peak

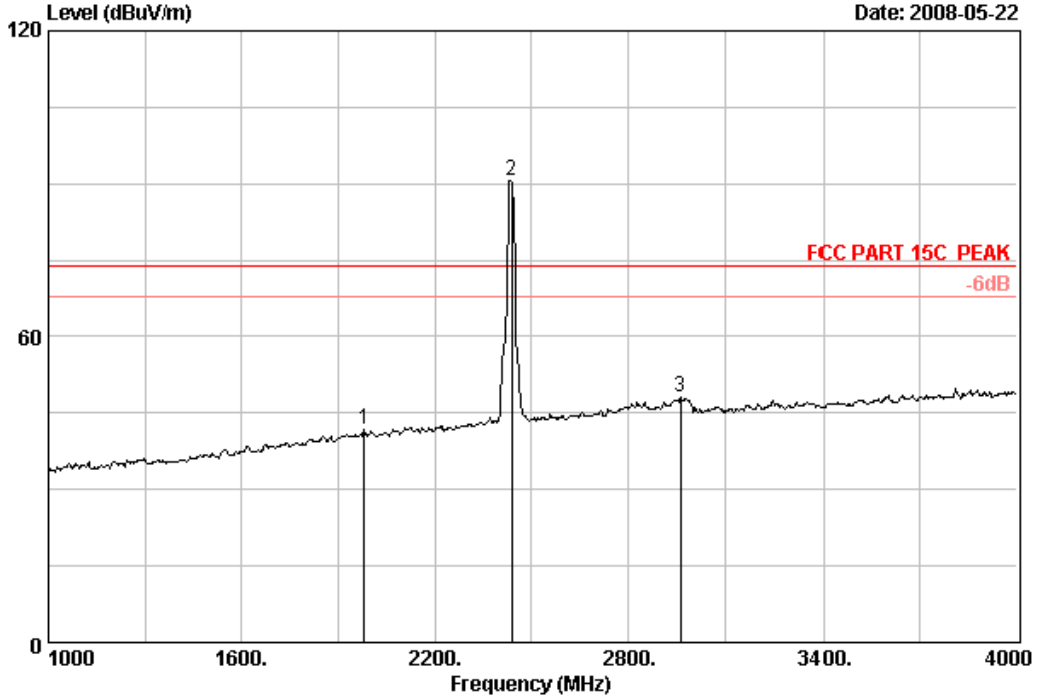
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 3 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)

Date: 2008-05-22



Site no. : RF Chamber Data no. : 3  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark	
					Level (dBuV/m)	Limits (dBuV/m)			
1	1981.00	27.97	6.16	35.32	42.87	41.68	74.00	32.32	Peak
2	2437.00	29.11	6.80	35.17	89.98	90.72	74.00	-16.72	Peak
3	2962.00	30.82	7.62	35.01	44.57	48.00	74.00	26.00	Peak

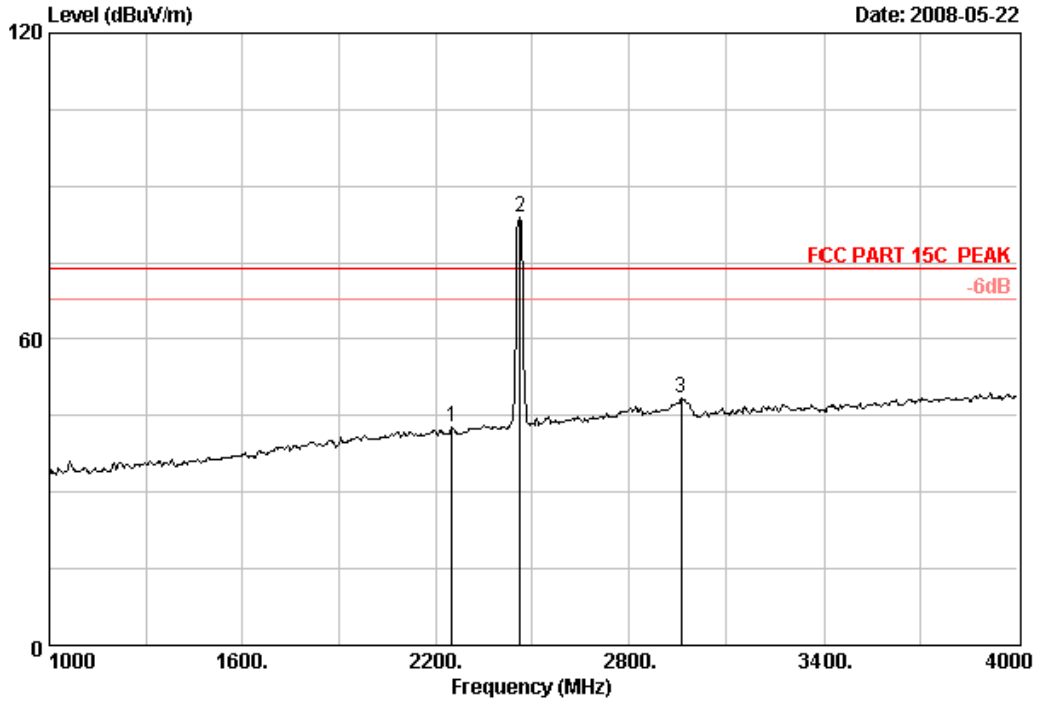
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 5 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)

Date: 2008-05-22



Site no. : RF Chamber Data no. : 5  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2251.00	28.67	6.56	35.22	42.79	42.80	74.00	31.20	Peak
2	2462.00	29.15	6.84	35.17	83.05	83.87	74.00	-9.87	Peak
3	2962.00	30.82	7.62	35.01	45.14	48.57	74.00	25.43	Peak

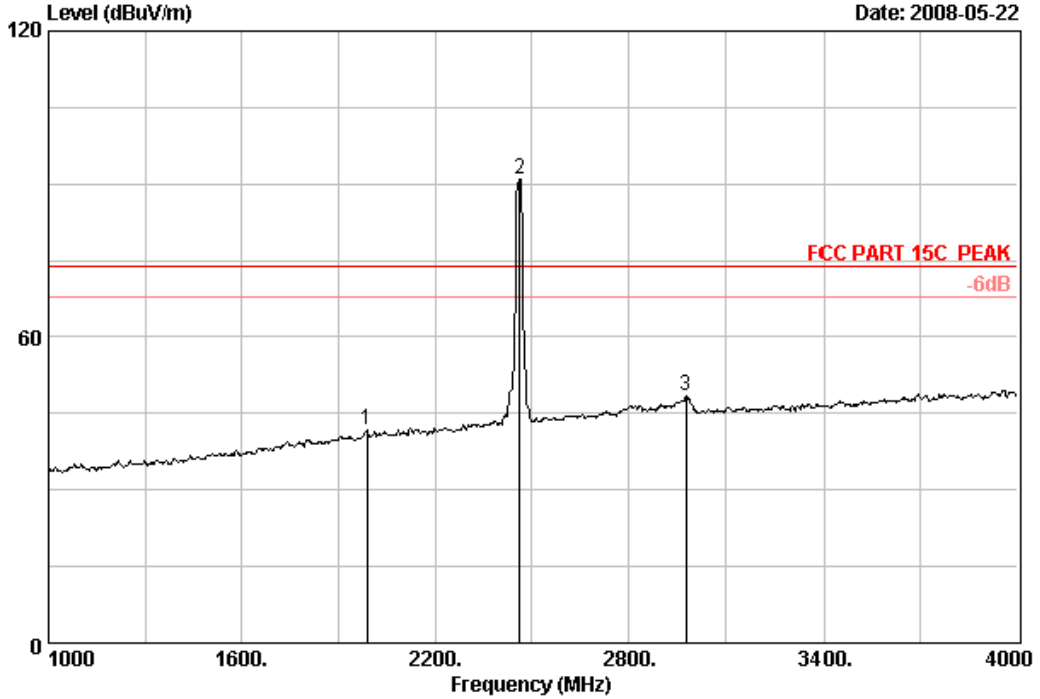
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 6 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)

Date: 2008-05-22



Site no. : RF Chamber Data no. : 6  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1	27.97	6.16	35.32	42.98	41.79	74.00	32.21	Peak
2	29.15	6.84	35.17	90.24	91.06	74.00	-17.06	Peak
3	30.88	7.66	35.01	44.85	48.38	74.00	25.62	Peak

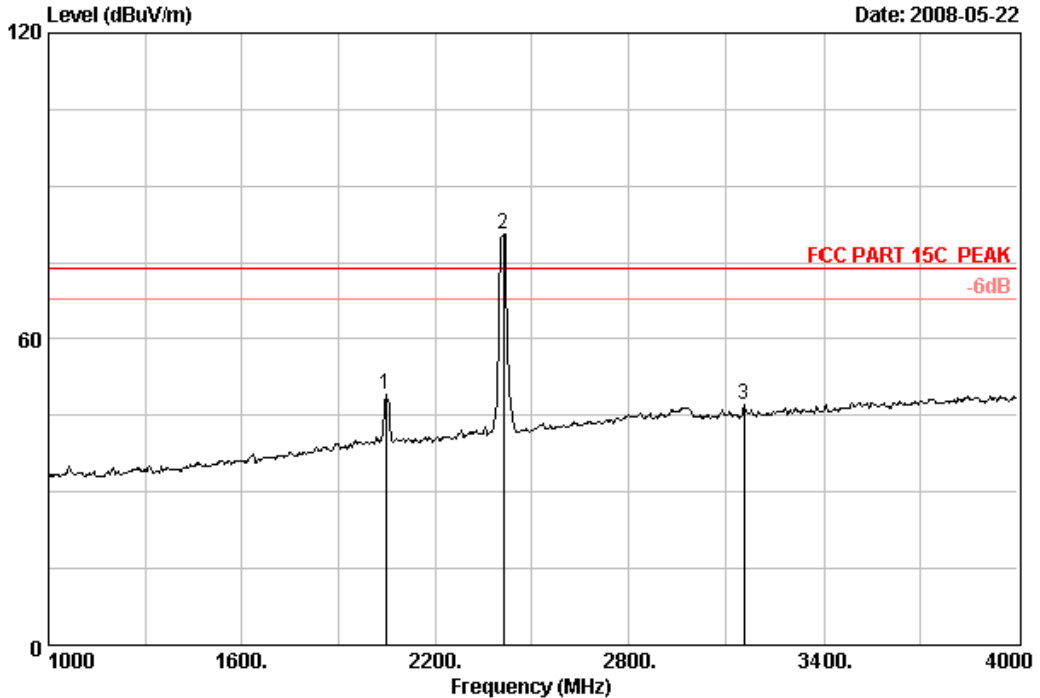
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 8 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)

Date: 2008-05-22



Site no. : RF Chamber Data no. : 8  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx

	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	2047.00	28.18	6.25	35.28	49.95	49.10	74.00	24.90	Peak
2	2412.00	29.03	6.73	35.18	79.94	80.52	74.00	-6.52	Peak
3	3157.00	31.43	7.99	34.96	42.81	47.27	74.00	26.73	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.

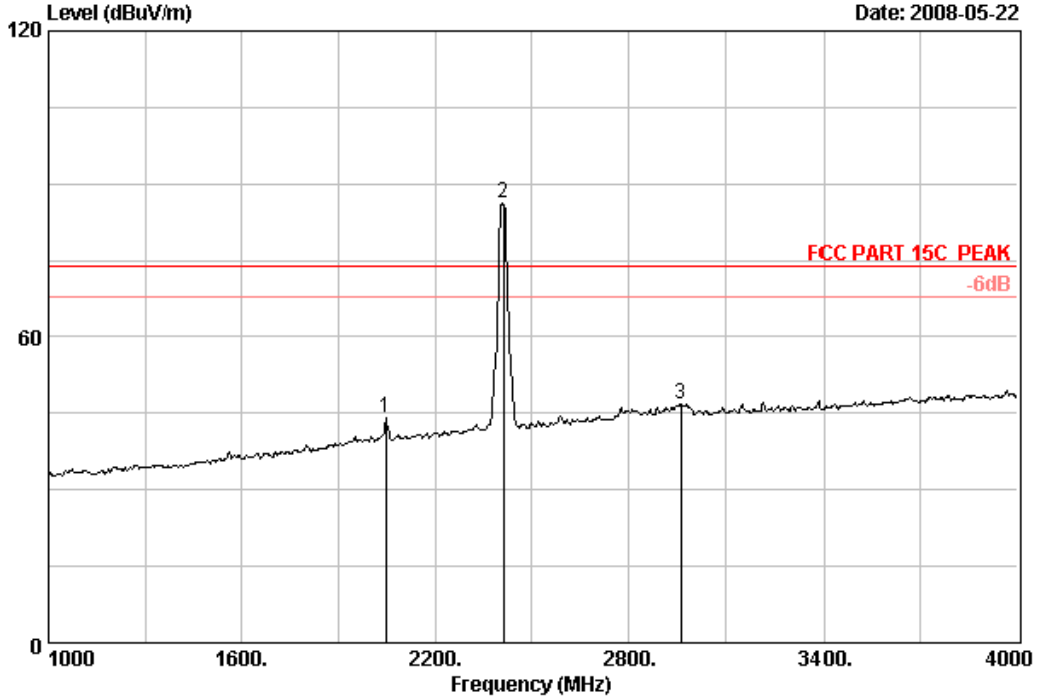




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Data: 7 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)

Date: 2008-05-22



Site no. : RF Chamber Data no. : 7  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx

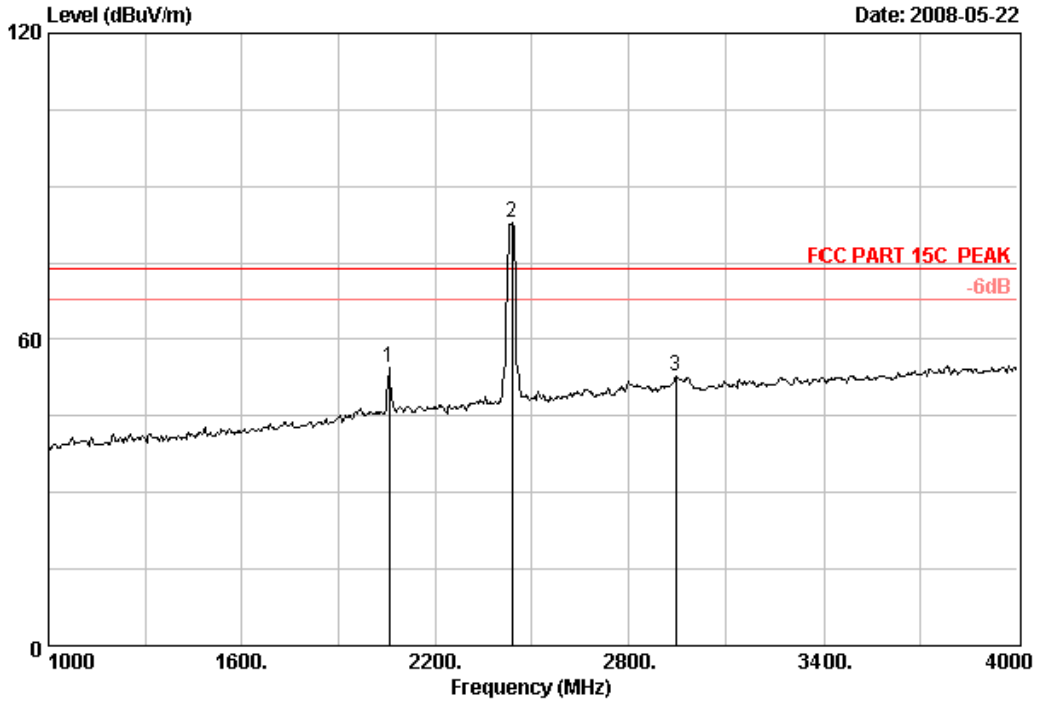
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2047.00	28.18	6.25	35.28	44.84	43.99	74.00	30.01	Peak
2	2412.00	29.03	6.73	35.18	85.58	86.16	74.00	-12.16	Peak
3	2962.00	30.82	7.62	35.01	43.44	46.87	74.00	27.13	Peak

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



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Data: 9 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 9  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx

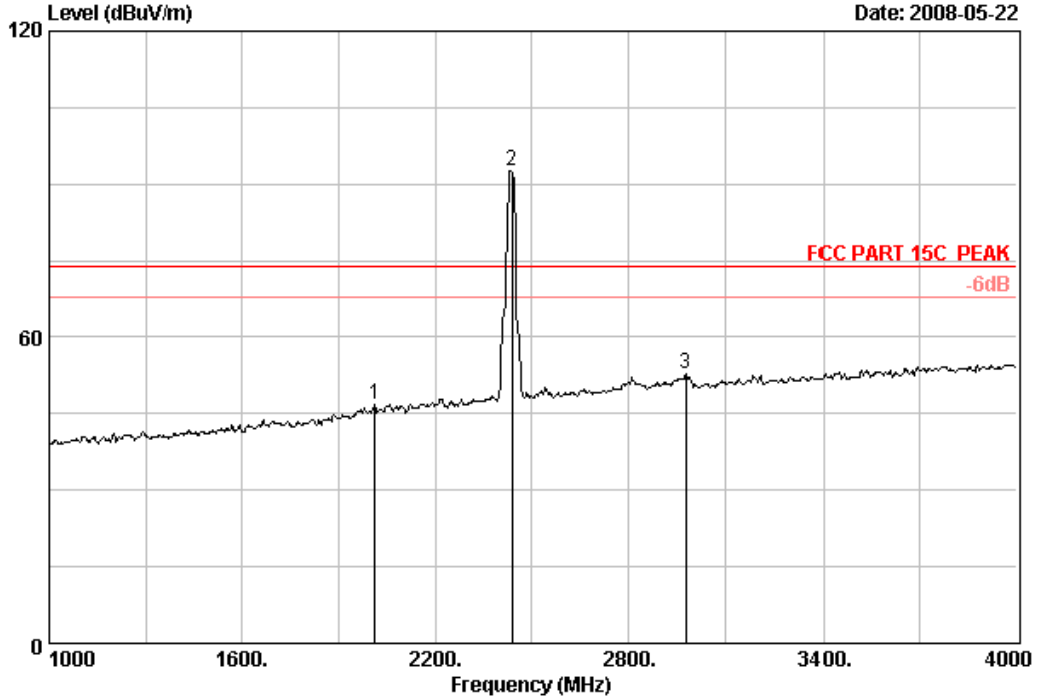
Peak	Freq. (MHz)	Ant. Cable Amp			Emission			Margin (dB)	Remark
		Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)		
1	2056.00	28.18	6.28	35.28	55.16	54.34	74.00	19.66	Peak
2	2437.00	29.11	6.80	35.17	82.27	83.01	74.00	-9.01	Peak
3	2947.00	30.82	7.62	35.01	49.43	52.86	74.00	21.14	Peak

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



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Data: 10 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 10  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx

	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	28.06	6.21	35.30	47.95	46.92	74.00	27.08	Peak
2	29.11	6.80	35.17	91.86	92.60	74.00	-18.60	Peak
3	30.88	7.66	35.01	49.31	52.84	74.00	21.16	Peak

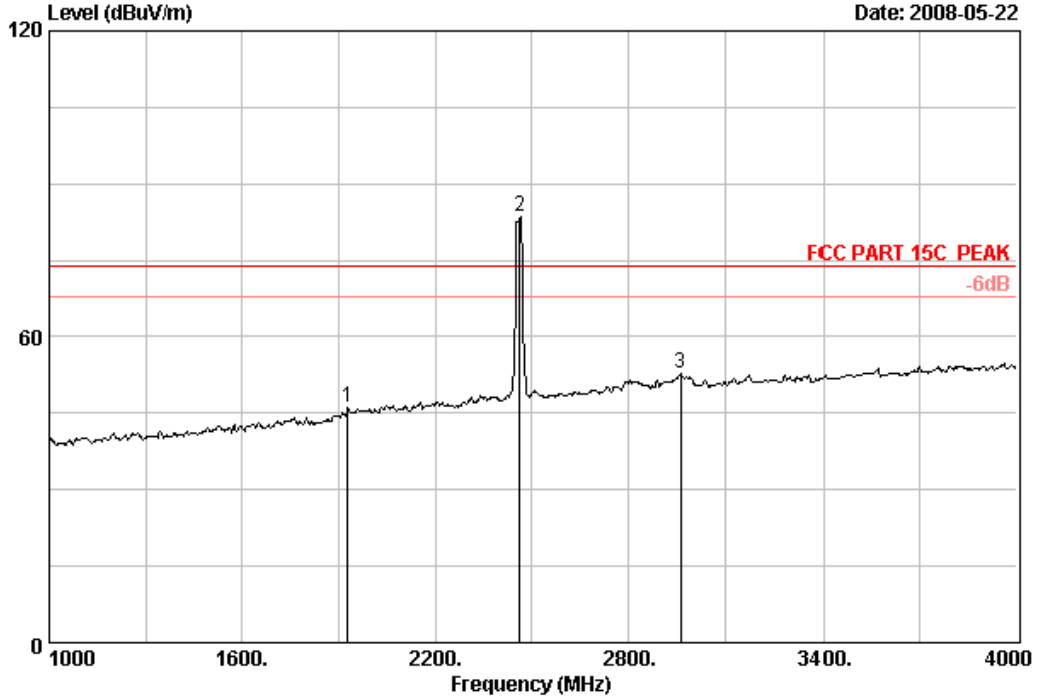
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 12 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)

Date: 2008-05-22



Site no. : RF Chamber Data no. : 12  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx

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	27.70	6.02	35.37	47.68	46.03	74.00	27.97	Peak
2	29.15	6.84	35.17	82.69	83.51	74.00	-9.51	Peak
3	30.82	7.62	35.01	49.25	52.68	74.00	21.32	Peak

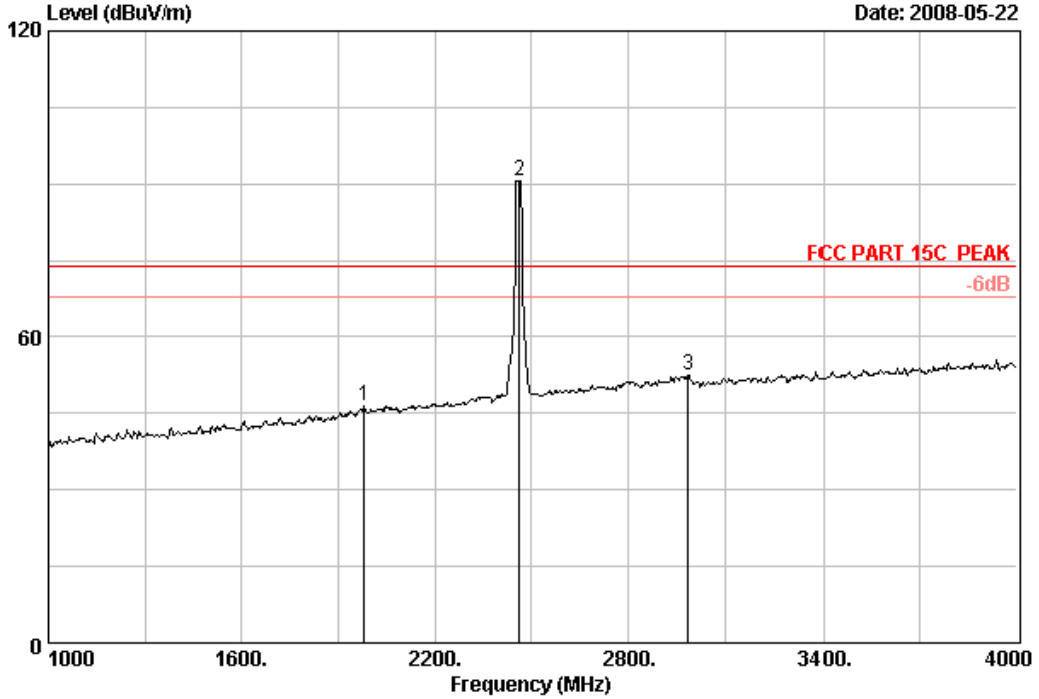
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 11 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)

Date: 2008-05-22



Site no. : RF Chamber Data no. : 11  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	27.97	6.16	35.32	47.55	46.36	74.00	27.64	Peak
2	29.15	6.84	35.17	89.93	90.75	74.00	-16.75	Peak
3	30.94	7.71	35.01	48.97	52.61	74.00	21.39	Peak

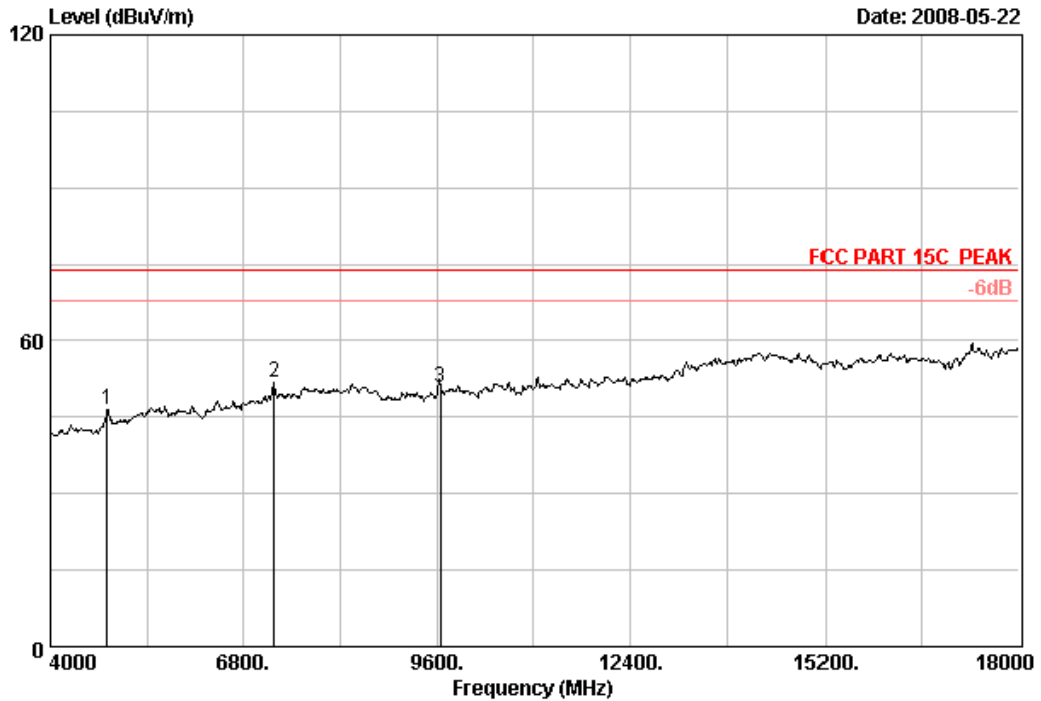
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 4GHz~18GHz



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Data: 13 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 13  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx

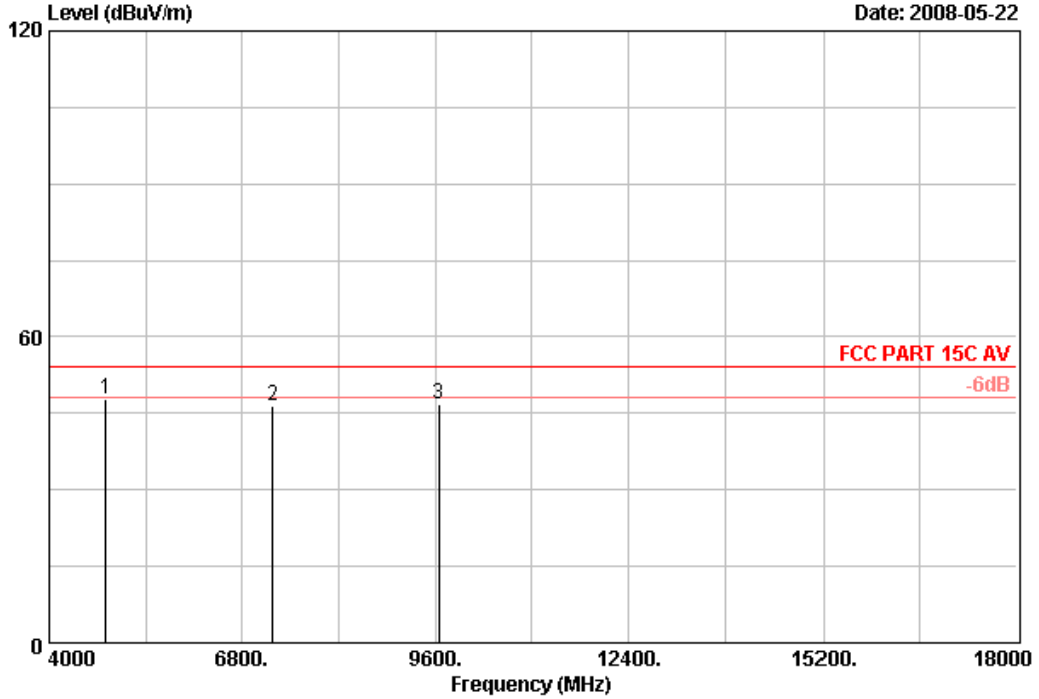
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1 4824.00	34.02	10.55	34.49	36.53	46.61	74.00	27.39	Peak
2 7236.00	37.39	12.16	34.44	36.53	51.64	74.00	22.36	Peak
3 9648.00	38.11	14.13	35.92	34.59	50.91	74.00	23.09	Peak

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



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Data: 14 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 14  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx

	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.02	10.55	34.49	37.77	47.85	54.00	6.15	Average
2	37.39	12.16	34.44	31.27	46.38	54.00	7.62	Average
3	38.11	14.13	35.92	30.57	46.89	54.00	7.11	Average

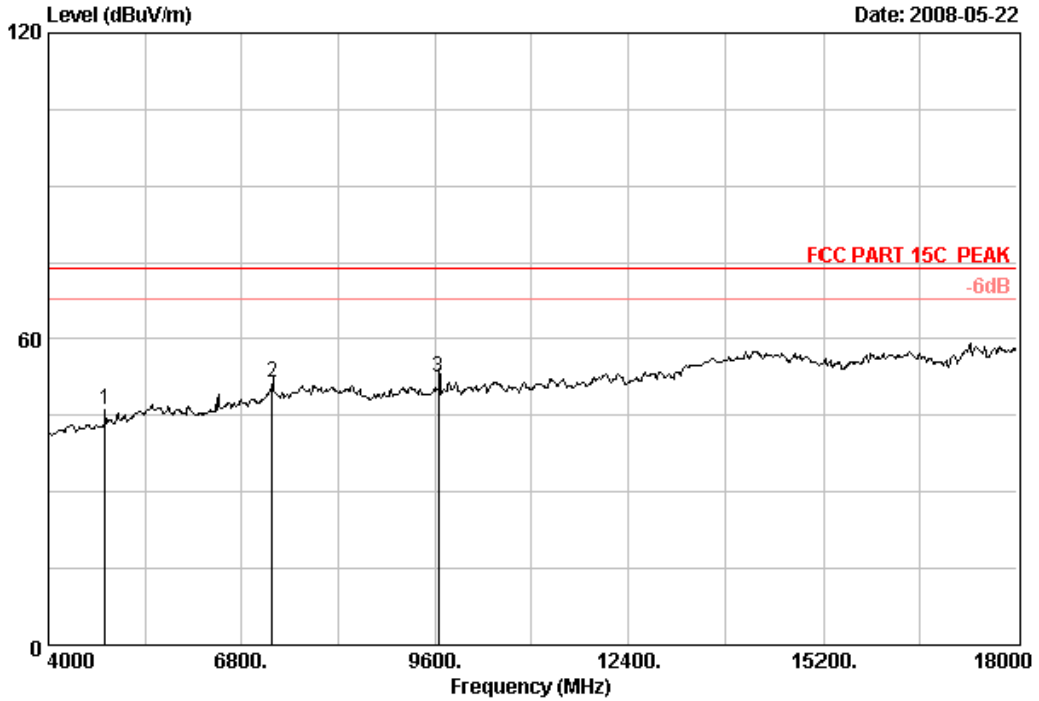
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 15 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)

Date: 2008-05-22



Site no. : RF Chamber Data no. : 15  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark	
					Level (dBuV/m)	Limits (dBuV/m)			
1	4824.00	34.02	10.55	34.49	35.94	46.02	74.00	27.98	Peak
2	7236.00	37.39	12.16	34.44	36.21	51.32	74.00	22.68	Peak
3	9648.00	38.11	14.13	35.92	36.25	52.57	74.00	21.43	Peak

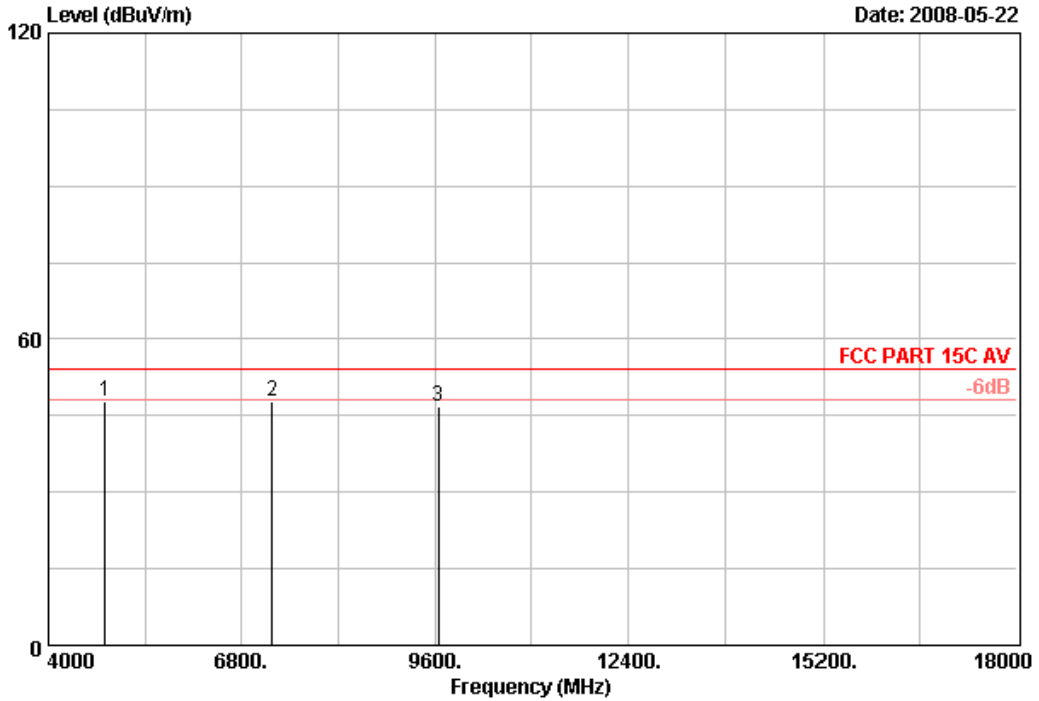
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 16 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 16  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx

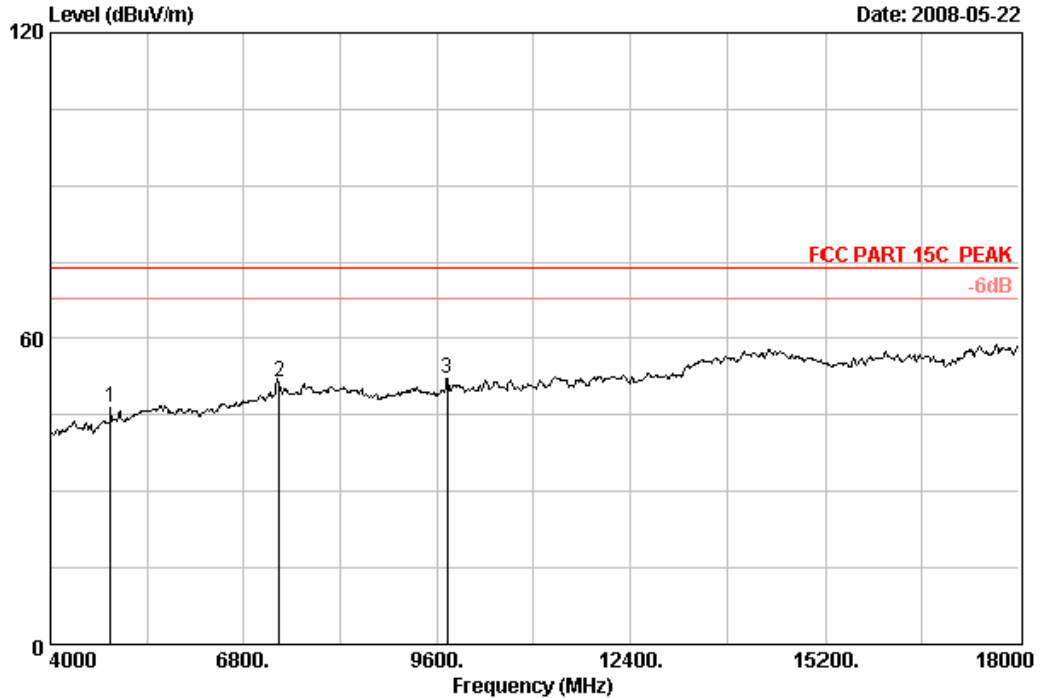
	Ant.	Cable	Amp	Emission			Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	37.61	47.69	54.00	6.31	Average
2	7236.00	37.39	12.16	34.44	32.83	47.94	54.00	6.06	Average
3	9648.00	38.11	14.13	35.92	30.46	46.78	54.00	7.22	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: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 19  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx

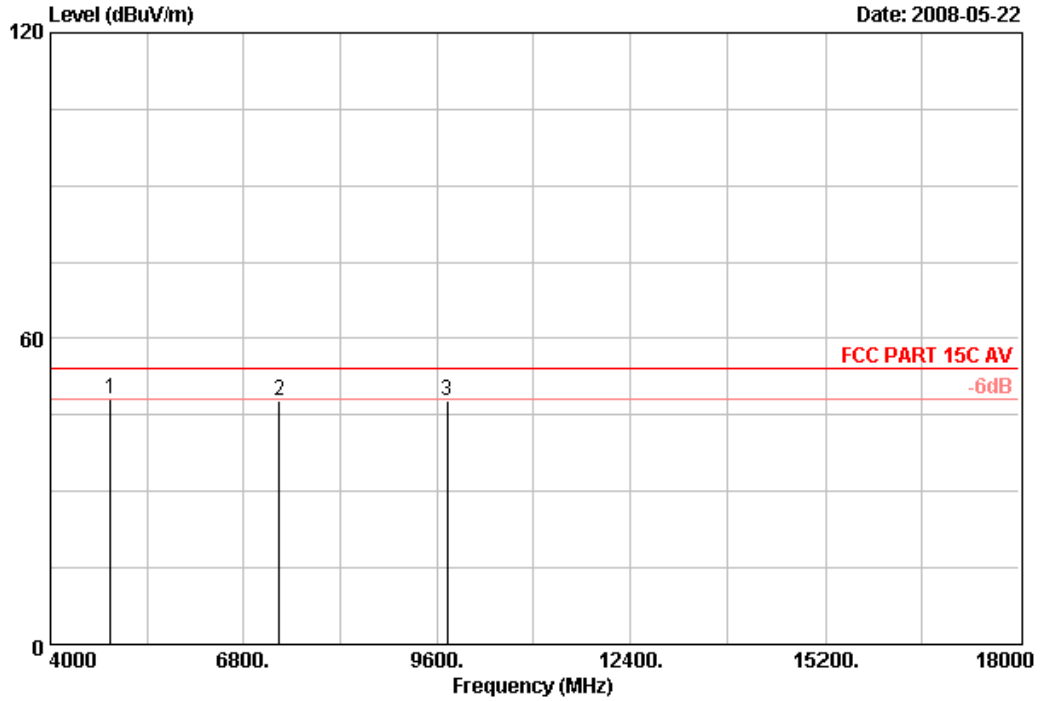
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark	
					Level (dBuV/m)	Limits (dBuV/m)			
1	4874.00	34.16	10.56	34.48	36.17	46.41	74.00	27.59	Peak
2	7311.00	37.50	12.17	34.46	36.24	51.45	74.00	22.55	Peak
3	9748.00	38.02	14.27	36.00	35.90	52.19	74.00	21.81	Peak

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



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Data: 20 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 20  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx

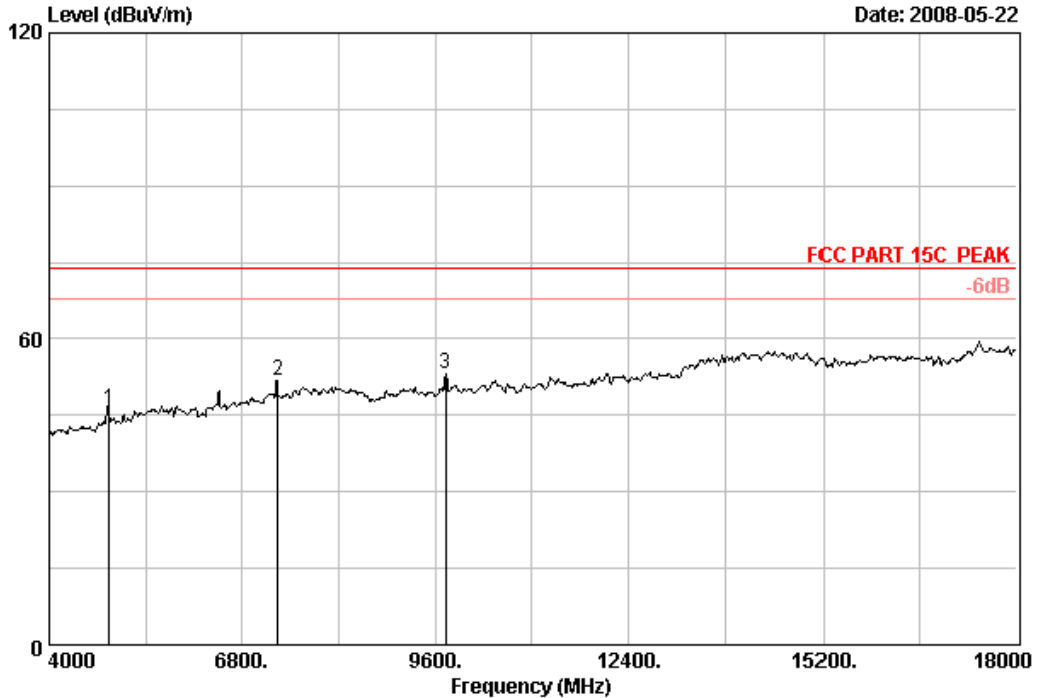
	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.00	34.16	10.56	34.48	37.82	48.06	54.00	5.94 Average
2	7311.00	37.50	12.17	34.46	32.51	47.72	54.00	6.28 Average
3	9748.00	38.02	14.27	36.00	31.61	47.90	54.00	6.10 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: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 17  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx

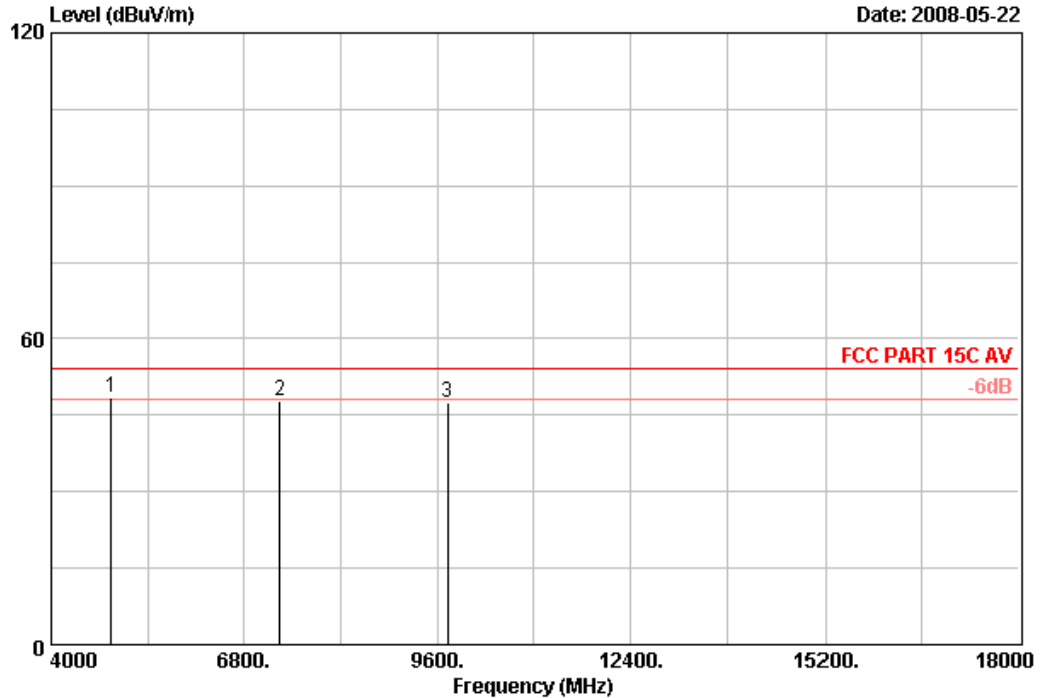
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark	
					Level (dBuV/m)	Limits (dBuV/m)			
1	4874.00	34.16	10.56	34.48	35.90	46.14	74.00	27.86	Peak
2	7311.00	37.50	12.17	34.46	36.71	51.92	74.00	22.08	Peak
3	9748.00	38.02	14.27	36.00	36.99	53.28	74.00	20.72	Peak

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



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Data: 18 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 18  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH6:2437MHz Tx

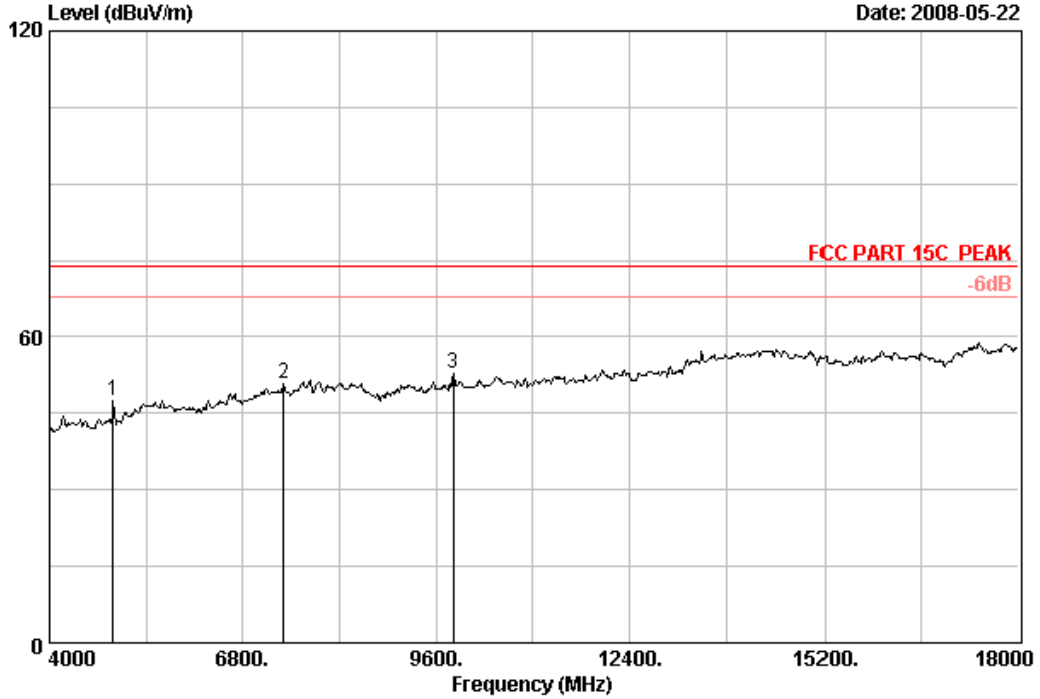
	Ant. Factor	Cable Loss	Amp Factor	Emission Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.00	34.16	10.56	34.48	38.12	48.36	54.00	5.64 Average
2	7311.00	37.50	12.17	34.46	32.76	47.97	54.00	6.03 Average
3	9748.00	38.02	14.27	36.00	31.29	47.58	54.00	6.42 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: 21 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 21  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx

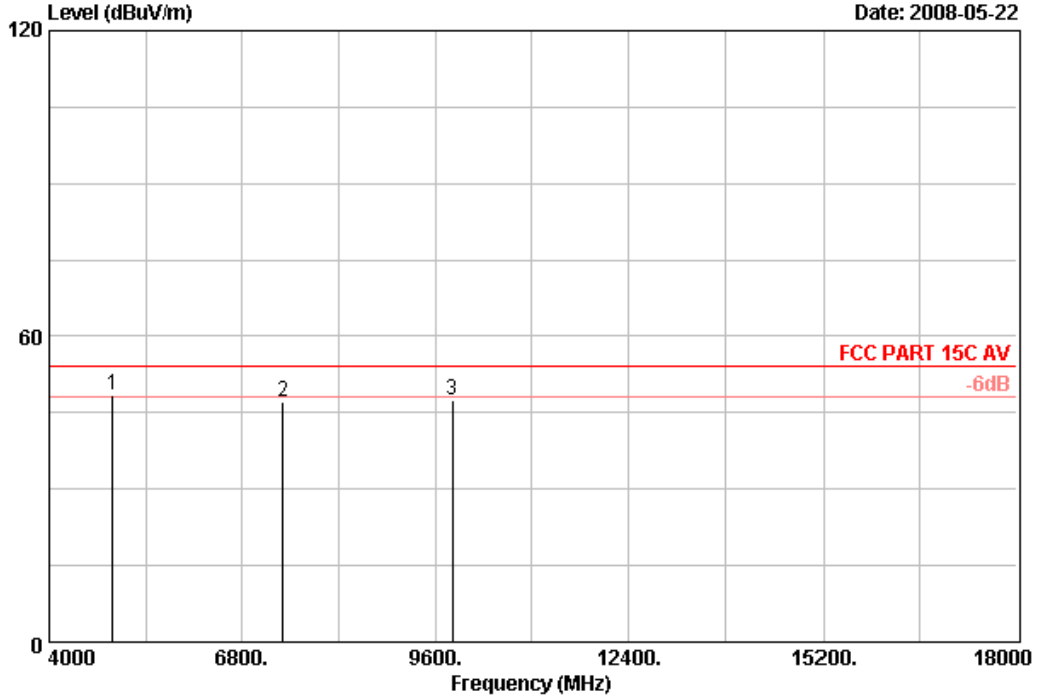
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
						Level (dBuV/m)	Limits (dBuV/m)		
1	4924.00	34.29	10.58	34.47	37.23	47.63	74.00	26.37	Peak
2	7386.00	37.63	12.31	34.47	35.18	50.65	74.00	23.35	Peak
3	9848.00	37.95	14.39	36.08	36.40	52.66	74.00	21.34	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: 22 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 22  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx

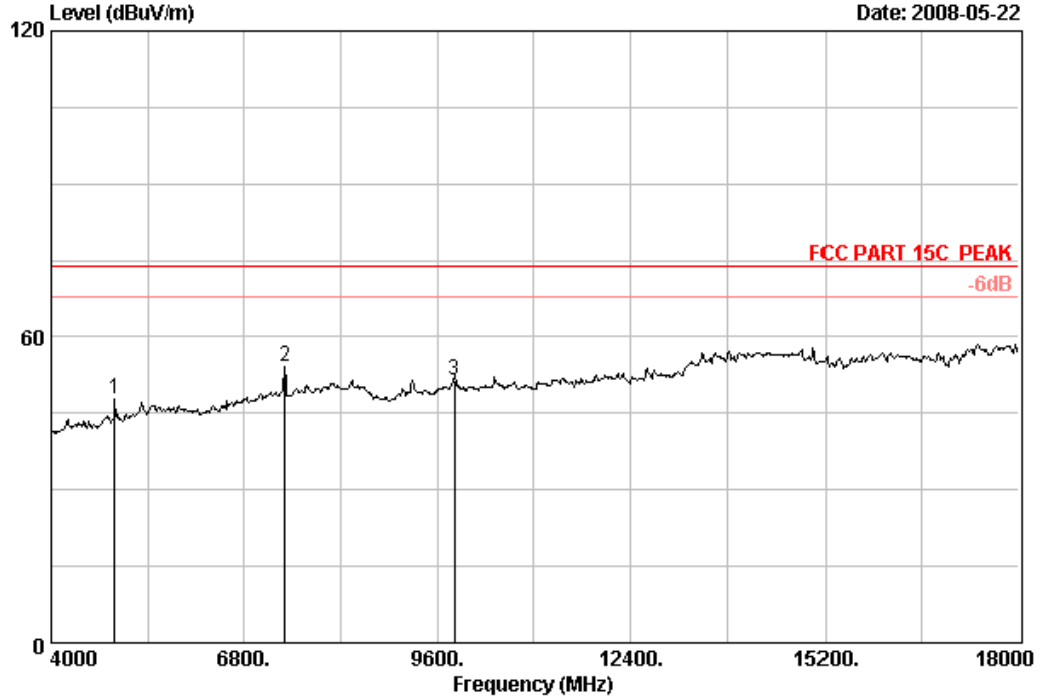
	Ant. Factor	Cable Loss	Amp Factor	Emission Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.00	34.29	10.58	34.47	38.09	54.00	5.51	Average
2	7386.00	37.63	12.31	34.47	31.55	54.00	6.98	Average
3	9848.00	37.95	14.39	36.08	31.31	54.00	6.43	Average

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



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Data: 23 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 23  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark	
					Level (dBuV/m)	Limits (dBuV/m)			
1	4924.00	34.29	10.58	34.47	37.35	47.75	74.00	26.25	Peak
2	7386.00	37.63	12.31	34.47	38.74	54.21	74.00	19.79	Peak
3	9848.00	37.95	14.39	36.08	35.30	51.56	74.00	22.44	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.

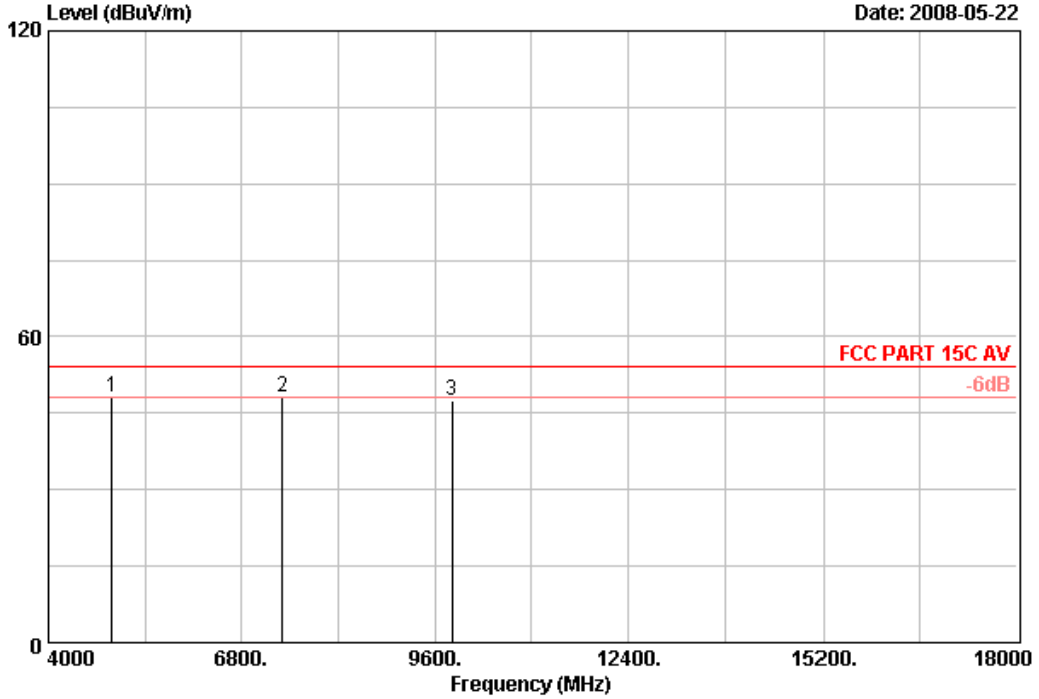




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Data: 24 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)

Date: 2008-05-22



Site no. : RF Chamber Data no. : 24  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx

	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.00	34.29	10.58	34.47	37.66	48.06	54.00	5.94 Average
2	7386.00	37.63	12.31	34.47	32.58	48.05	54.00	5.95 Average
3	9848.00	37.95	14.39	36.08	31.25	47.51	54.00	6.49 Average

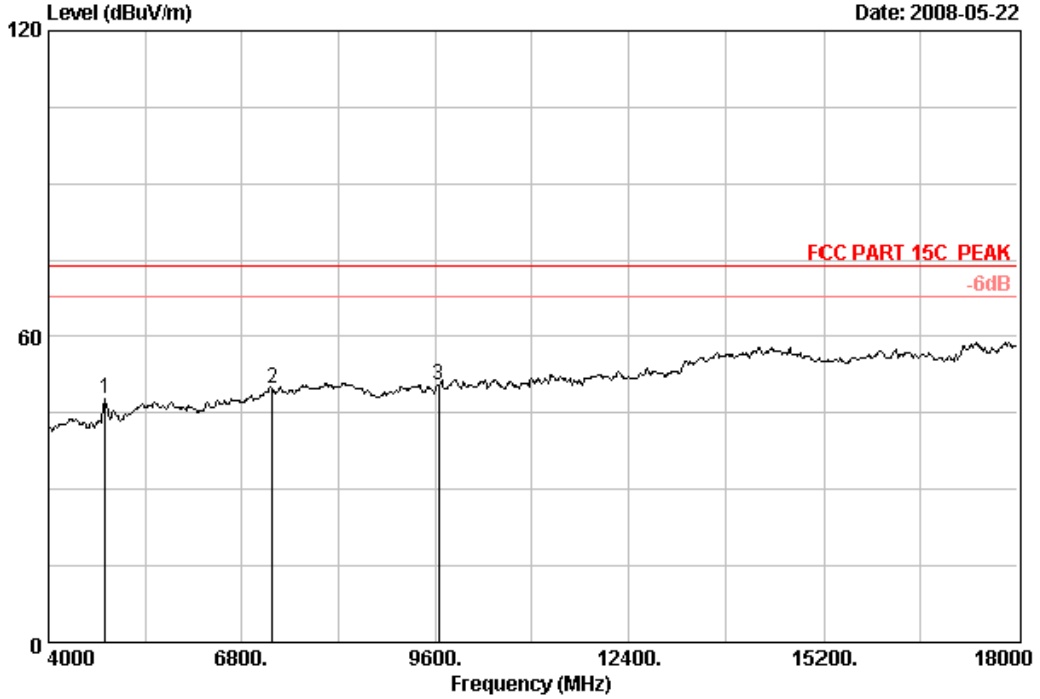
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 27 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)

Date: 2008-05-22



Site no. : RF Chamber Data no. : 27  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx

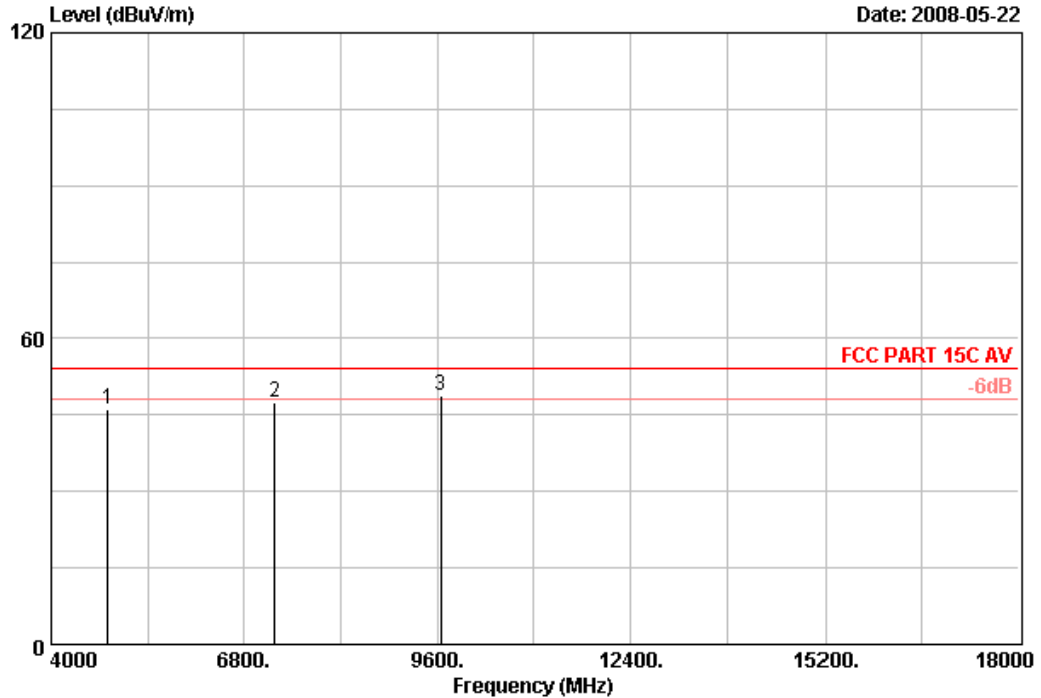
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	37.64	47.72	74.00	26.28	Peak
2	7236.00	37.39	12.16	34.44	34.64	49.75	74.00	24.25	Peak
3	9648.00	38.11	14.13	35.92	34.10	50.42	74.00	23.58	Peak

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



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Site no. : RF Chamber Data no. : 28  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx

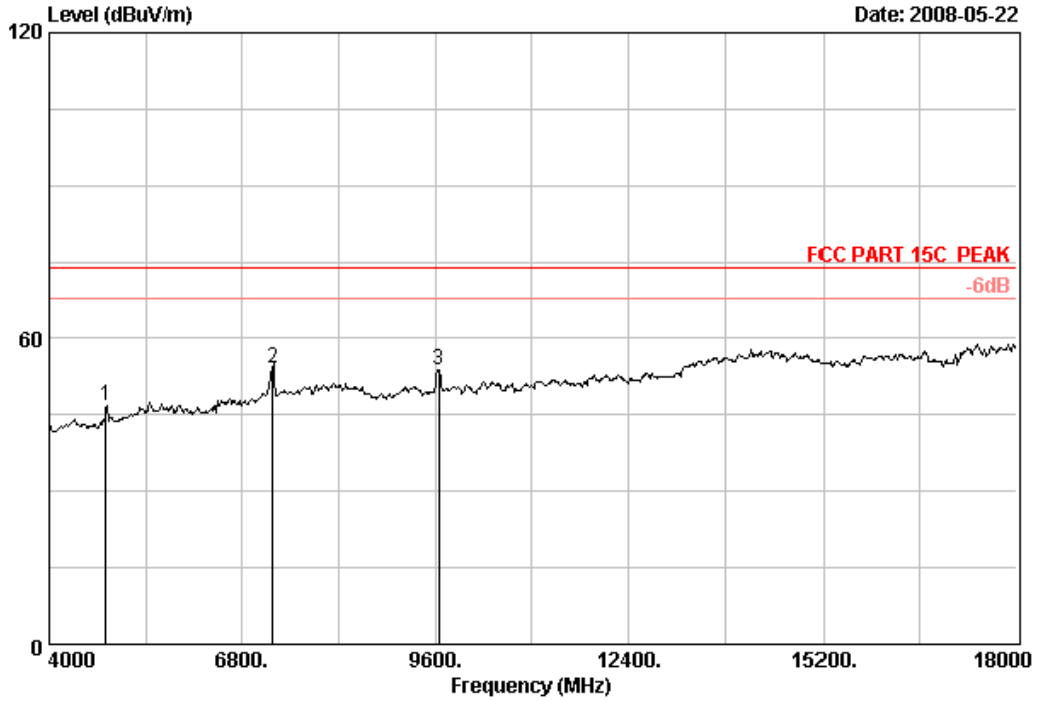
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	4824.00	34.02	10.55	34.49	36.13	46.21	54.00	7.79	Average
2	7236.00	37.39	12.16	34.44	32.24	47.35	54.00	6.65	Average
3	9648.00	38.11	14.13	35.92	32.54	48.86	54.00	5.14	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: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 25  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx

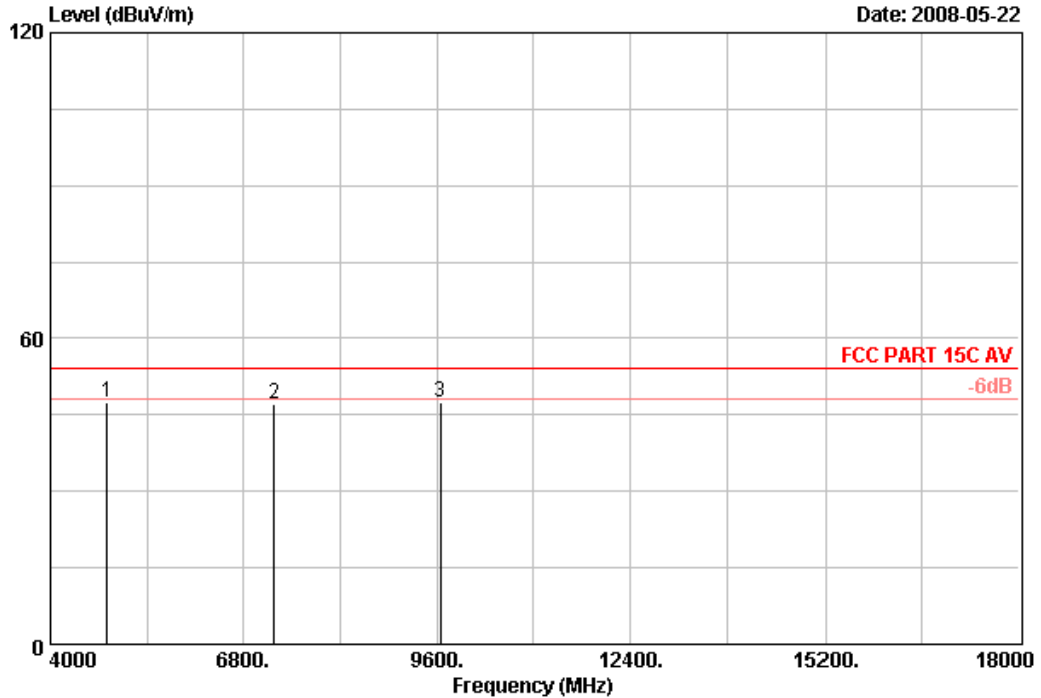
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark	
					Level (dBuV/m)	Limits (dBuV/m)			
1	4824.00	34.02	10.55	34.49	36.71	46.79	74.00	27.21	Peak
2	7236.00	37.39	12.16	34.44	39.13	54.24	74.00	19.76	Peak
3	9648.00	38.11	14.13	35.92	37.37	53.69	74.00	20.31	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: 26 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 26  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx

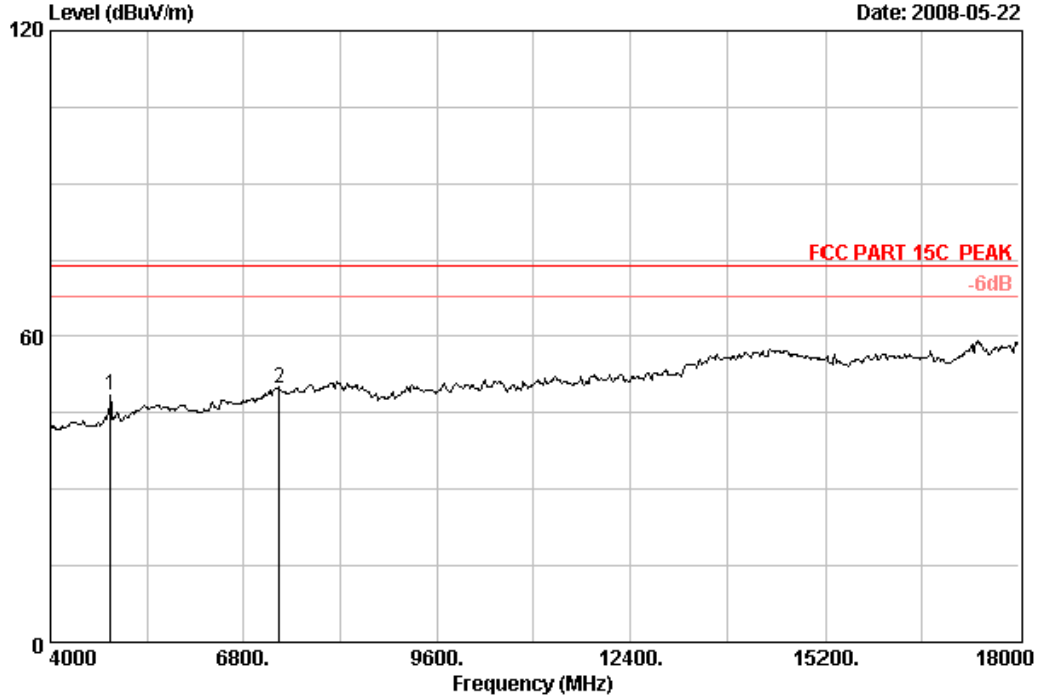
	Ant. Factor	Cable Loss	Amp Factor	Emission Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.00	34.02	10.55	34.49	37.44	47.52	54.00	6.48 Average
2	7236.00	37.39	12.16	34.44	32.06	47.17	54.00	6.83 Average
3	9648.00	38.11	14.13	35.92	31.12	47.44	54.00	6.56 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: 29 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 29  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx

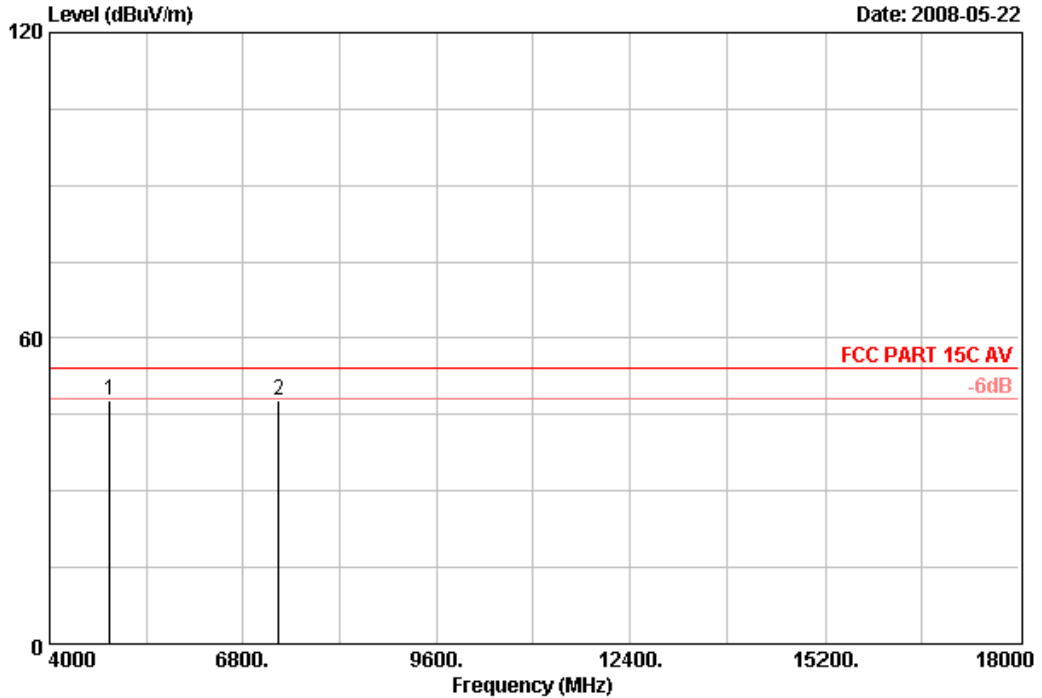
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark	
					Level (dBuV/m)	Limits (dBuV/m)			
1	4874.00	34.16	10.56	34.48	38.29	48.53	74.00	25.47	Peak
2	7311.00	37.50	12.17	34.46	34.64	49.85	74.00	24.15	Peak

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



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Data: 30 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 30  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx

	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	4874.00	34.16	10.56	34.48	37.58	47.82	54.00	6.18 Average
2	7311.00	37.50	12.17	34.46	32.64	47.85	54.00	6.15 Average

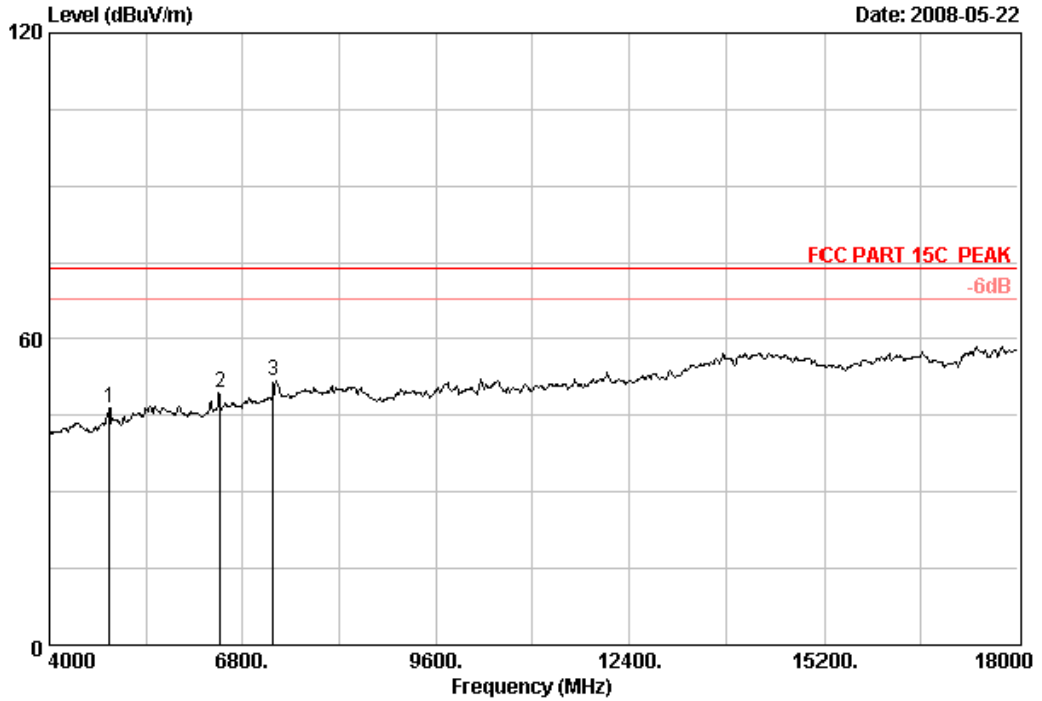
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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 Postcode:518057

Data: 31 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)

Date: 2008-05-22



Site no. : RF Chamber Data no. : 31  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx

	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	4874.00	34.16	10.56	34.48	36.38	46.62	74.00	27.38	Peak
2	6478.00	36.32	11.48	34.30	35.90	49.40	74.00	24.60	Peak
3	7236.00	37.39	12.16	34.44	36.59	51.70	74.00	22.30	Peak

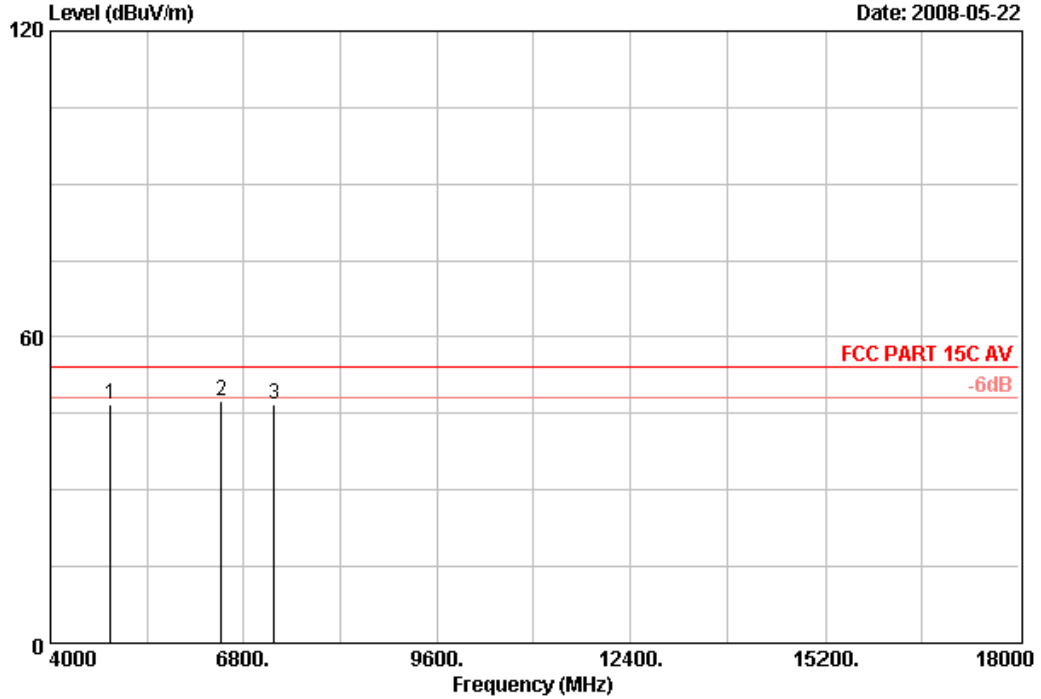
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 32 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 32  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH6:2437MHz Tx

	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	4874.00	34.16	10.56	34.48	36.66	46.90	54.00	7.10 Average
2	6478.00	36.32	11.48	34.30	33.84	47.34	54.00	6.66 Average
3	7236.00	37.39	12.16	34.44	31.59	46.70	54.00	7.30 Average

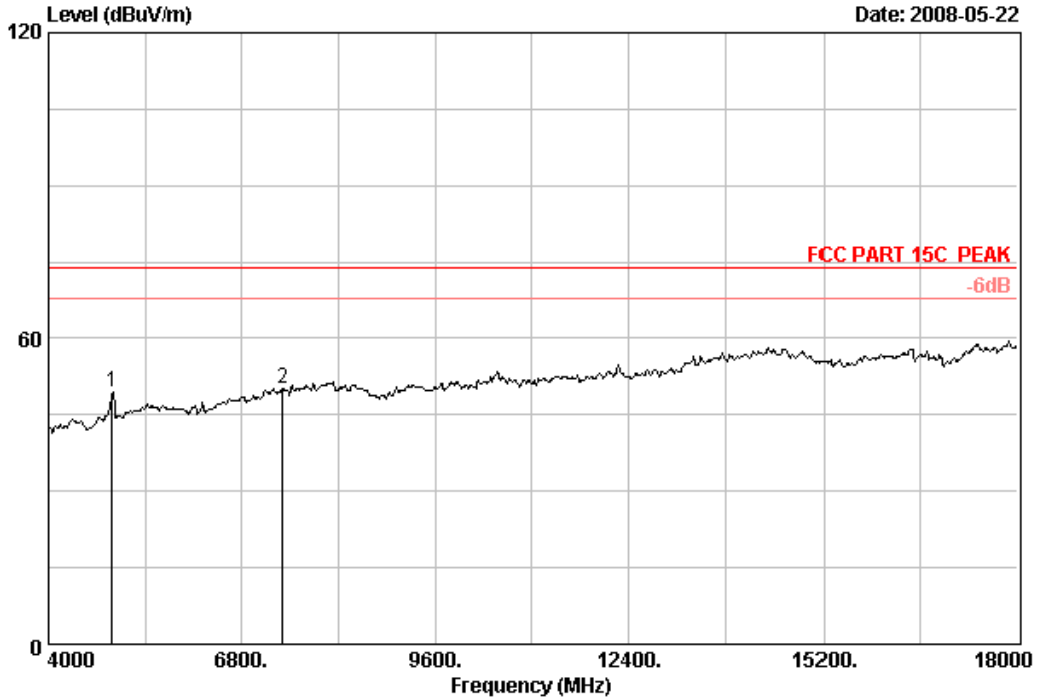
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 35 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)

Date: 2008-05-22



Site no. : RF Chamber Data no. : 35  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx

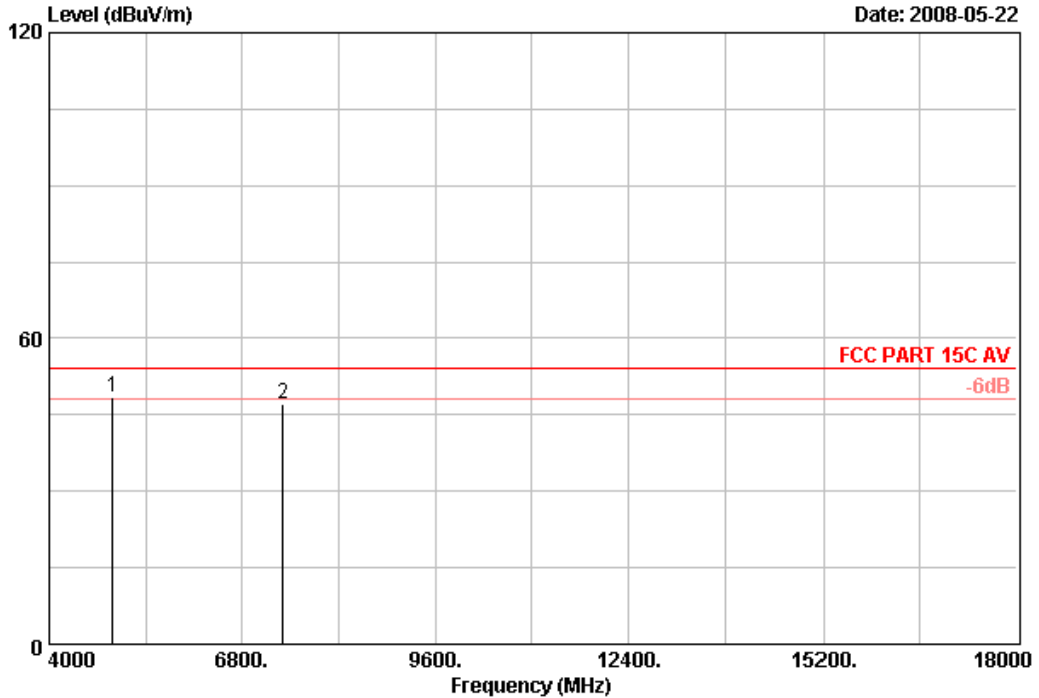
	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	34.29	10.58	34.47	38.92	49.32	74.00	24.68	Peak
2	37.63	12.31	34.47	34.74	50.21	74.00	23.79	Peak

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



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Data: 36 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 36  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx

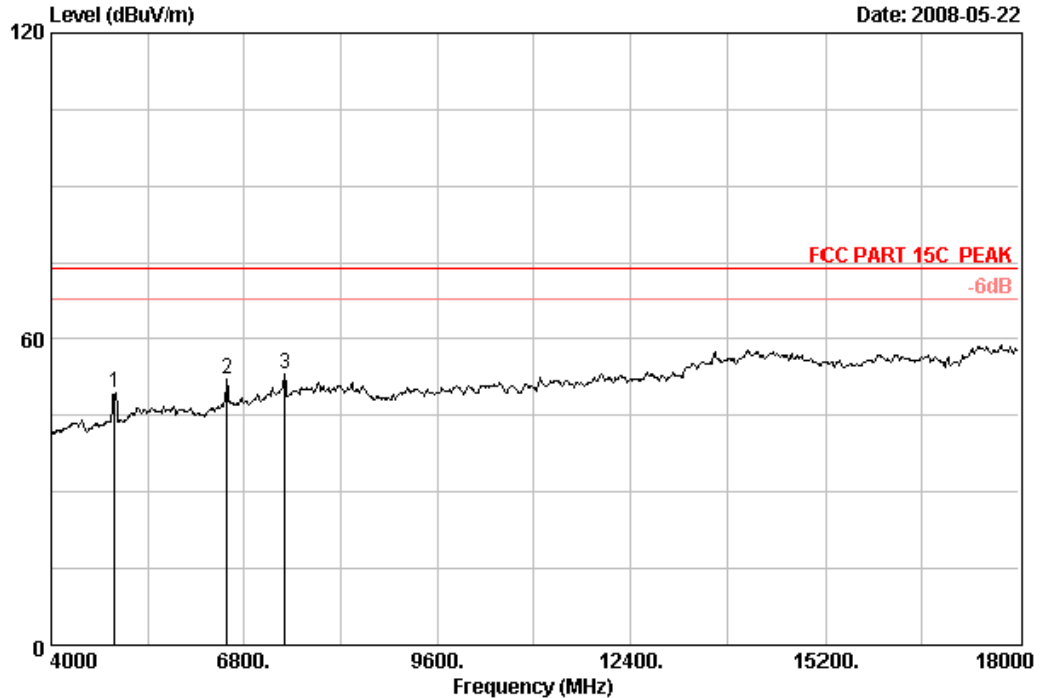
	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.29	10.58	34.47	37.92	48.32	54.00	5.68	Average
2	37.63	12.31	34.47	31.74	47.21	54.00	6.79	Average

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



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 Postcode:518057

Data: 33 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 33  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx

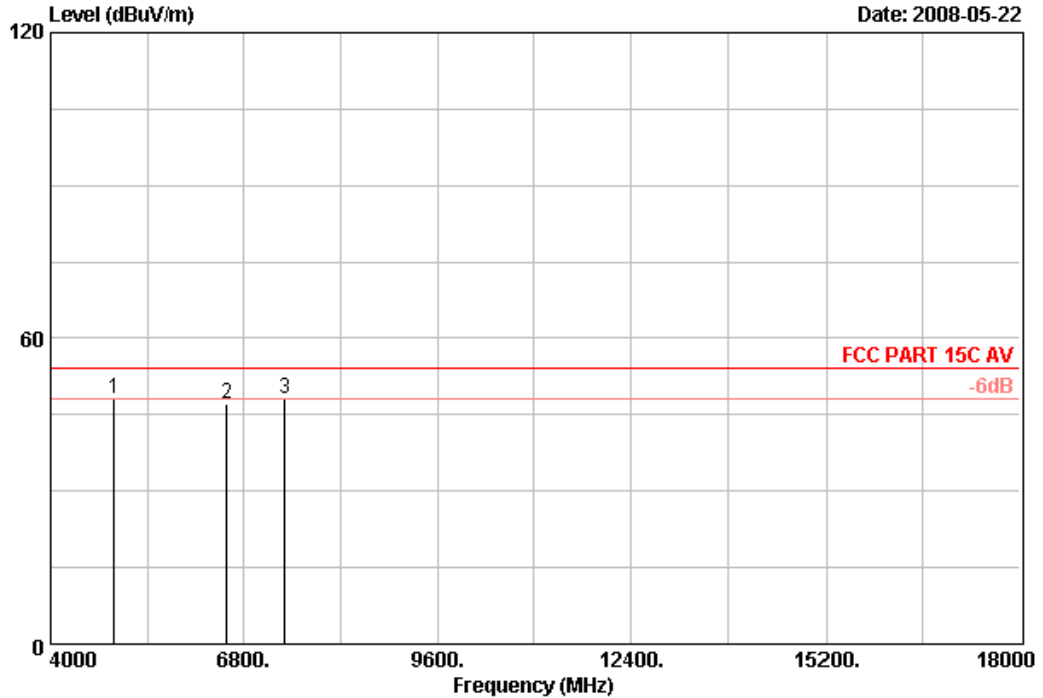
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark	
					Level (dBuV/m)	Limits (dBuV/m)			
1	4924.00	34.29	10.58	34.47	38.97	49.37	74.00	24.63	Peak
2	6548.00	36.41	11.60	34.31	38.45	52.15	74.00	21.85	Peak
3	7386.00	37.63	12.31	34.47	37.55	53.02	74.00	20.98	Peak

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



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 Postcode:518057

Data: 34 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 34  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx

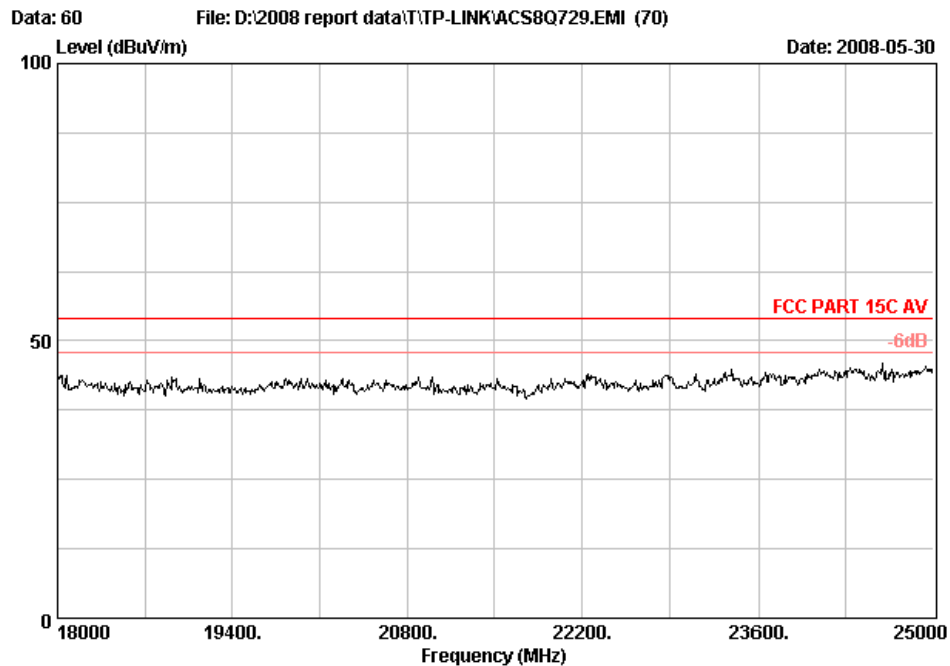
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark	
					Level (dBuV/m)	Limits (dBuV/m)			
1	4924.00	34.29	10.58	34.47	37.89	48.29	54.00	5.71	Average
2	6548.00	36.41	11.60	34.31	33.45	47.15	54.00	6.85	Average
3	7386.00	37.63	12.31	34.47	32.55	48.02	54.00	5.98	Average

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

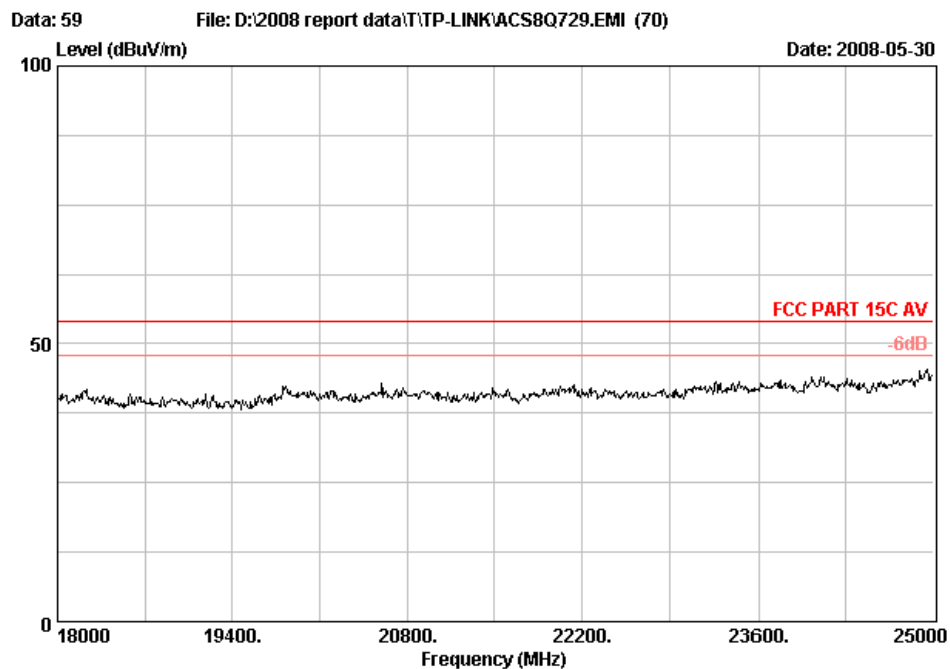
Frequency: 18GHz~25GHz



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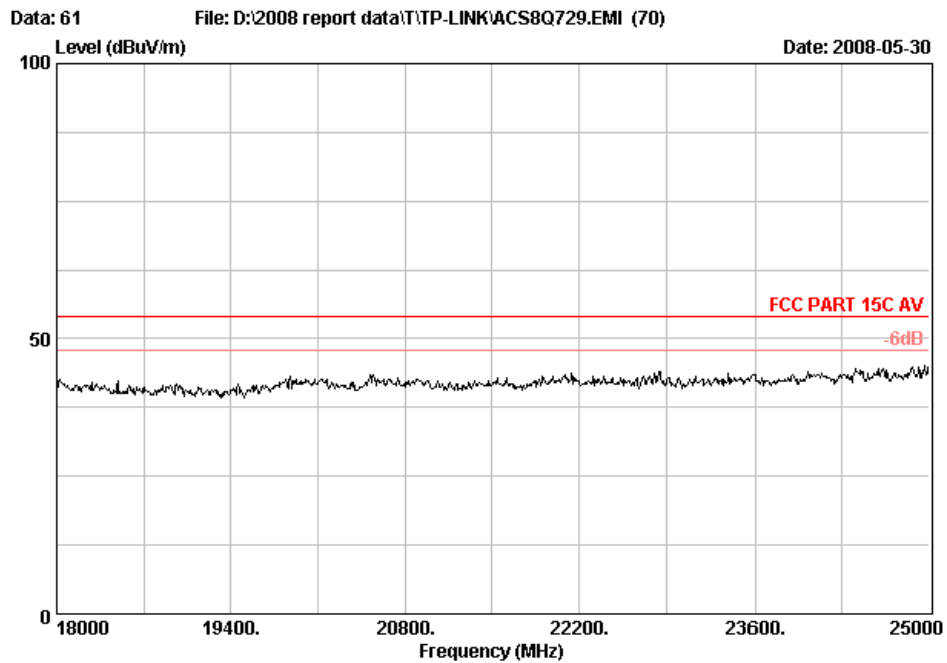
Site no. : RF Chamber Data no. : 60  
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11b CH1:2412MHz Tx



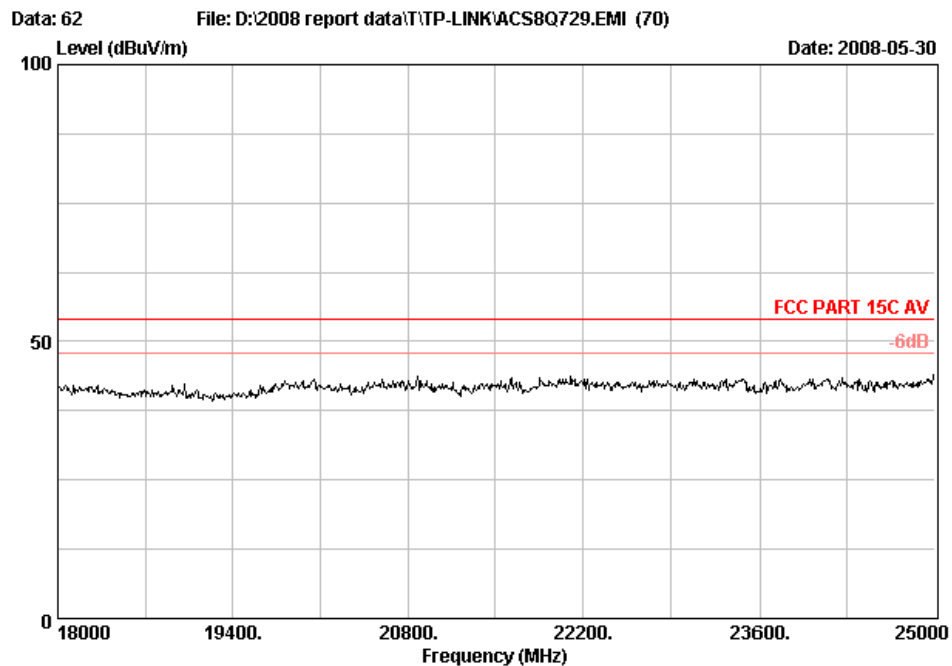
Site no. : RF Chamber Data no. : 59  
Dis. / Ant. : 3m Ant. pol. : VERTICAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11b CH1:2412MHz Tx



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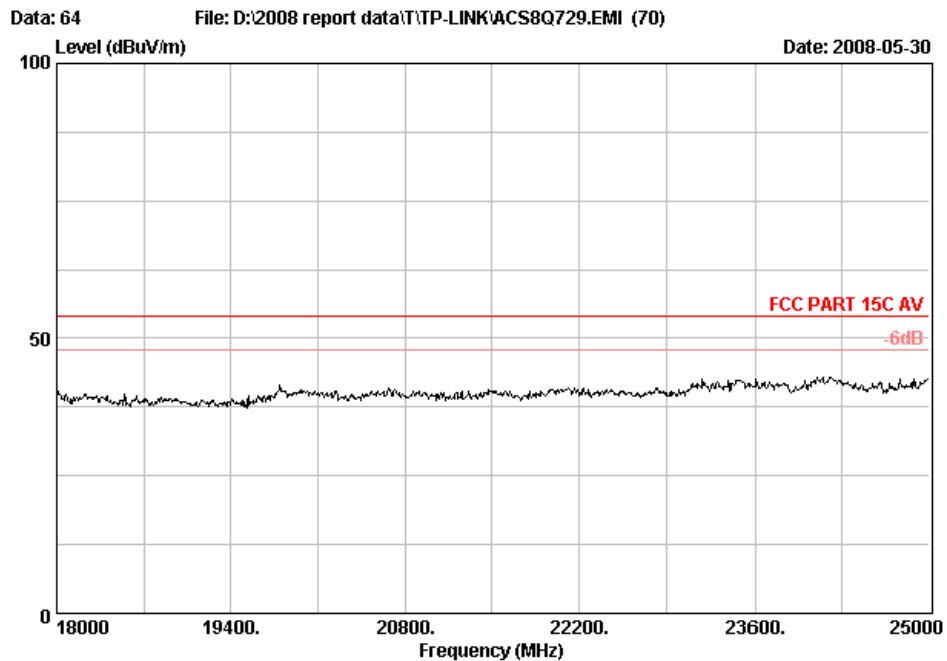
Site no. : RF Chamber Data no. : 61  
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11b CH6:2437MHz Tx



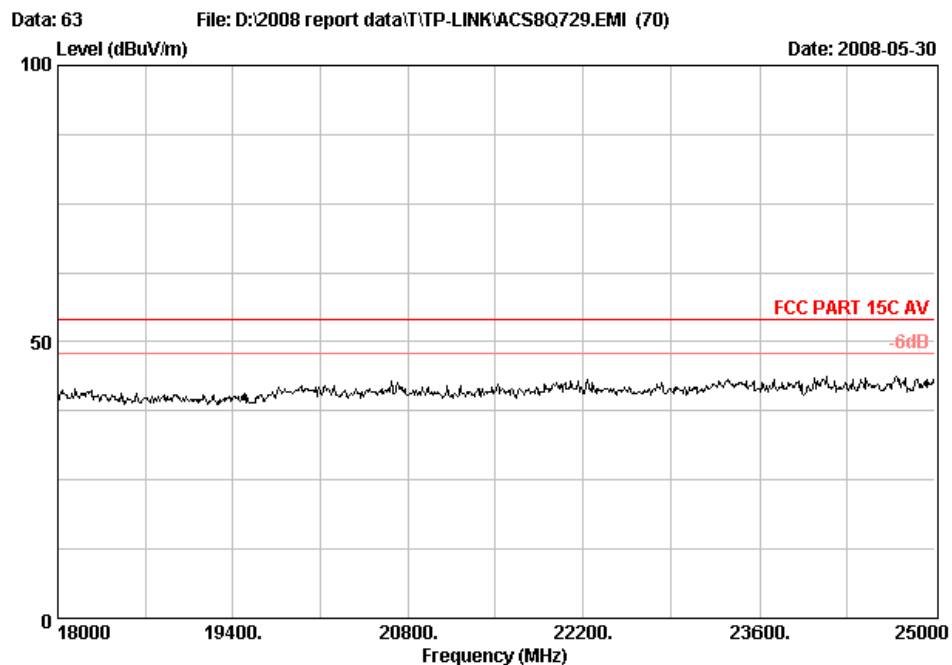
Site no. : RF Chamber Data no. : 62  
Dis. / Ant. : 3m Ant. pol. : VERTICAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11b CH6:2437MHz Tx



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Postcode:518057



Site no. : RF Chamber Data no. : 64  
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11b CH11:2462MHz Tx



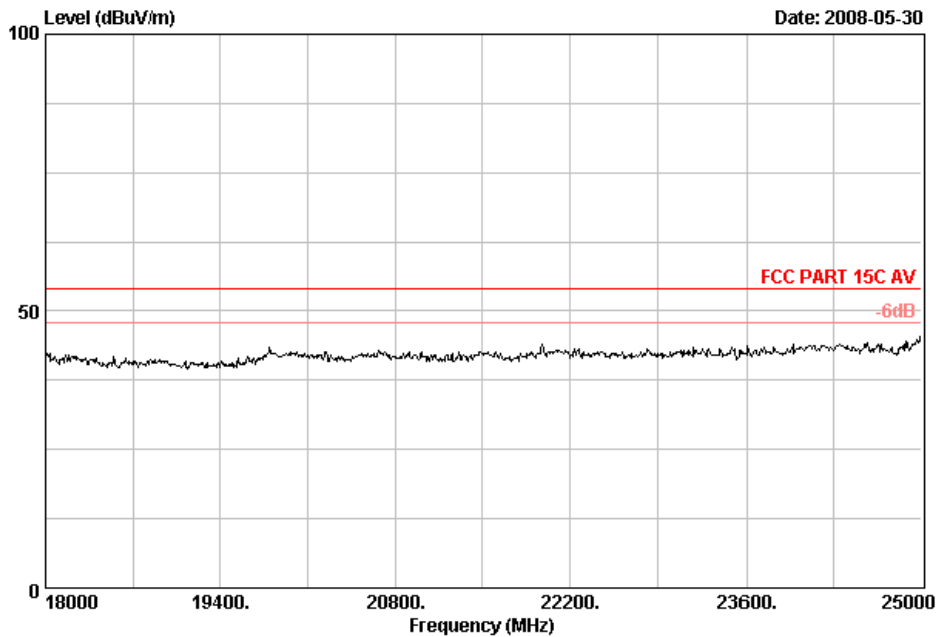
Site no. : RF Chamber Data no. : 63  
Dis. / Ant. : 3m Ant. pol. : VERTICAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11b CH11:2462MHz Tx





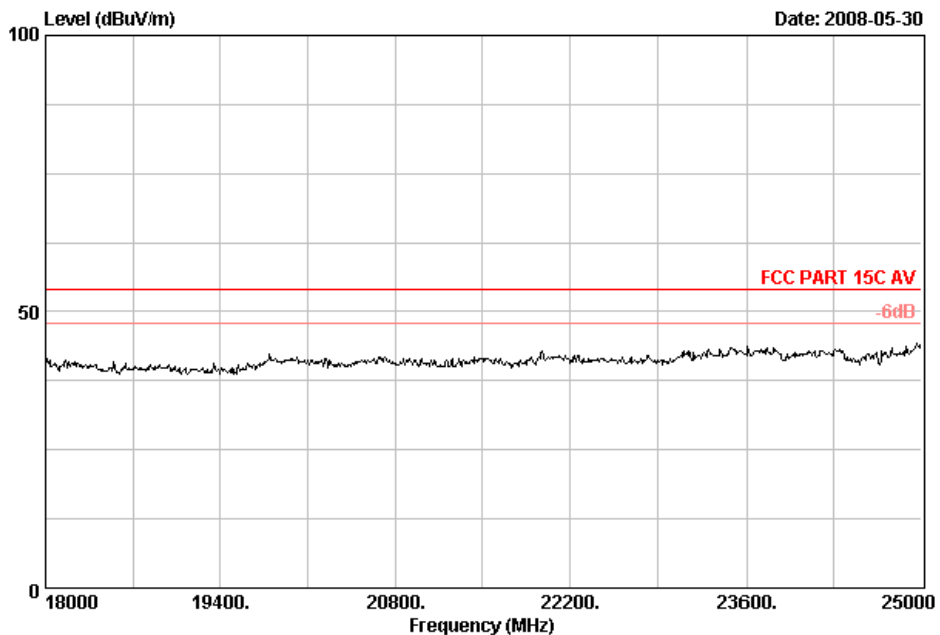
No.6 Ke Feng Road,B1;ck 52,  
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Fax:+86-755-26632877  
Postcode:518057

Data: 65 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (70)



Site no. : RF Chamber Data no. : 65  
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11g CH1:2412MHz Tx

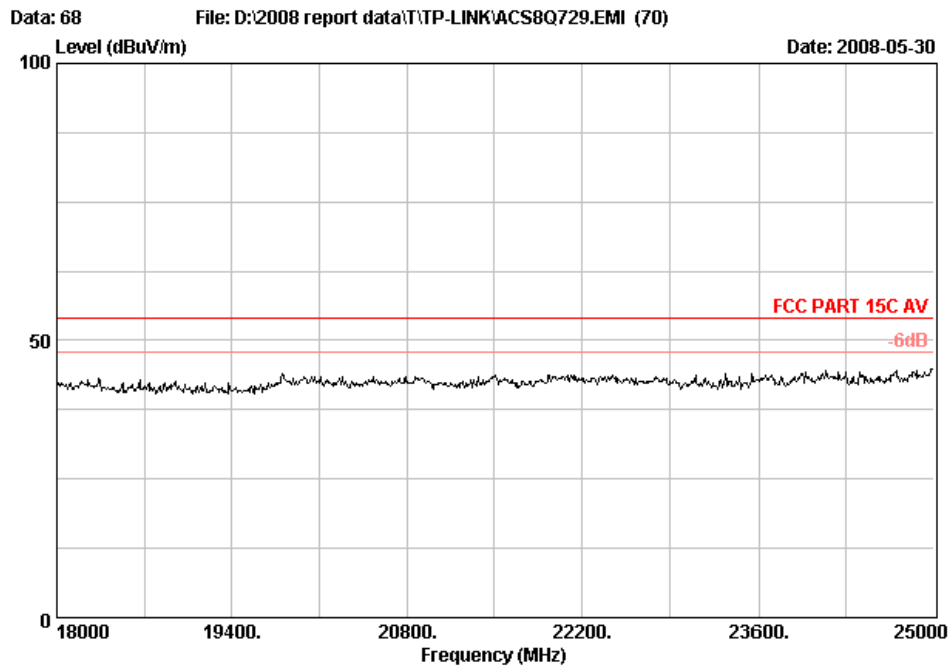
Data: 66 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (70)



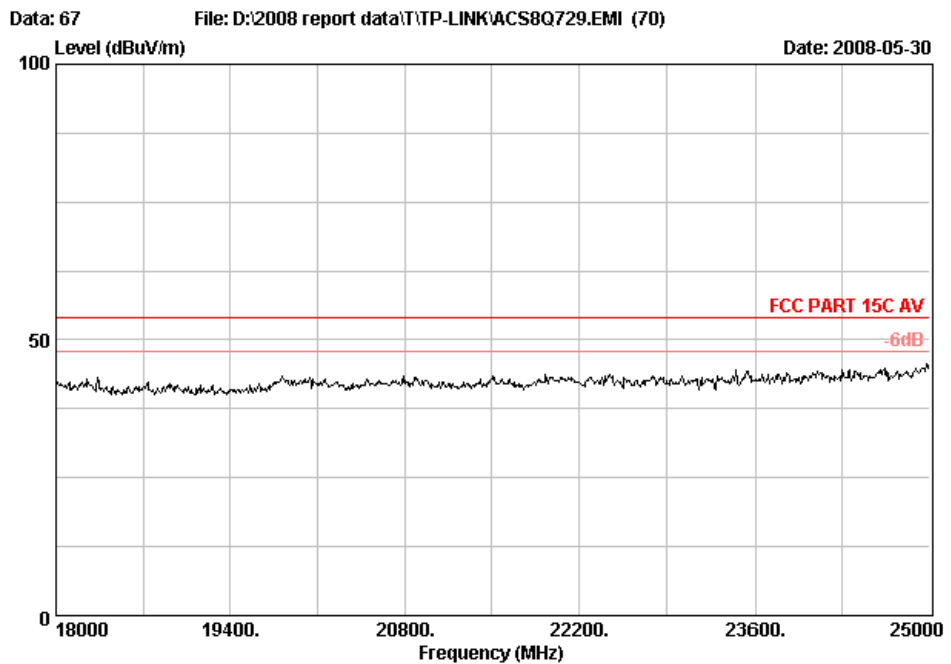
Site no. : RF Chamber Data no. : 66  
Dis. / Ant. : 3m Ant. pol. : VERTICAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11g CH1:2412MHz Tx



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Postcode:518057



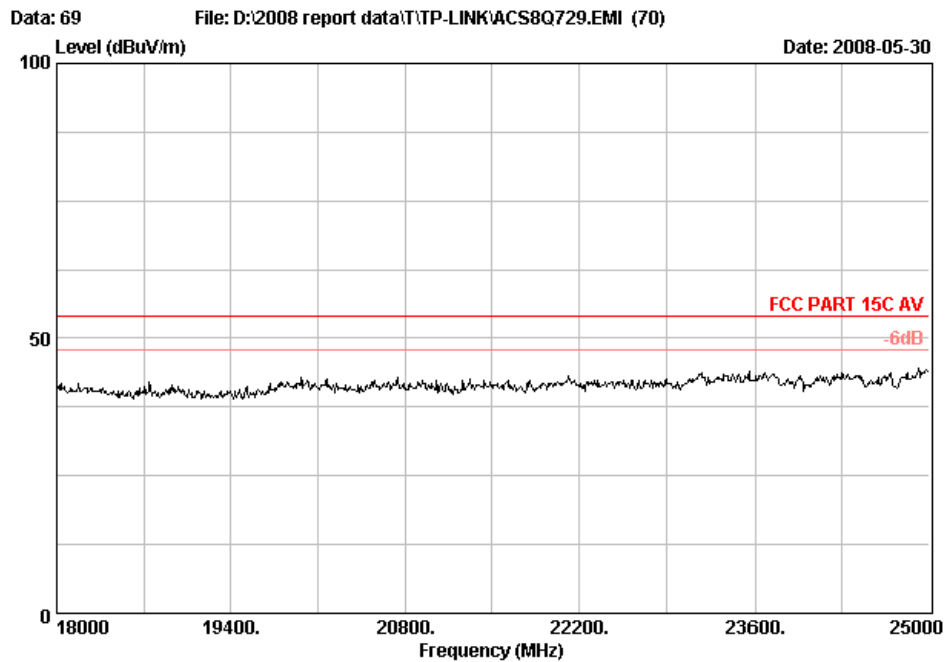
Site no. : RF Chamber Data no. : 68  
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11g CH6:2437MHz Tx



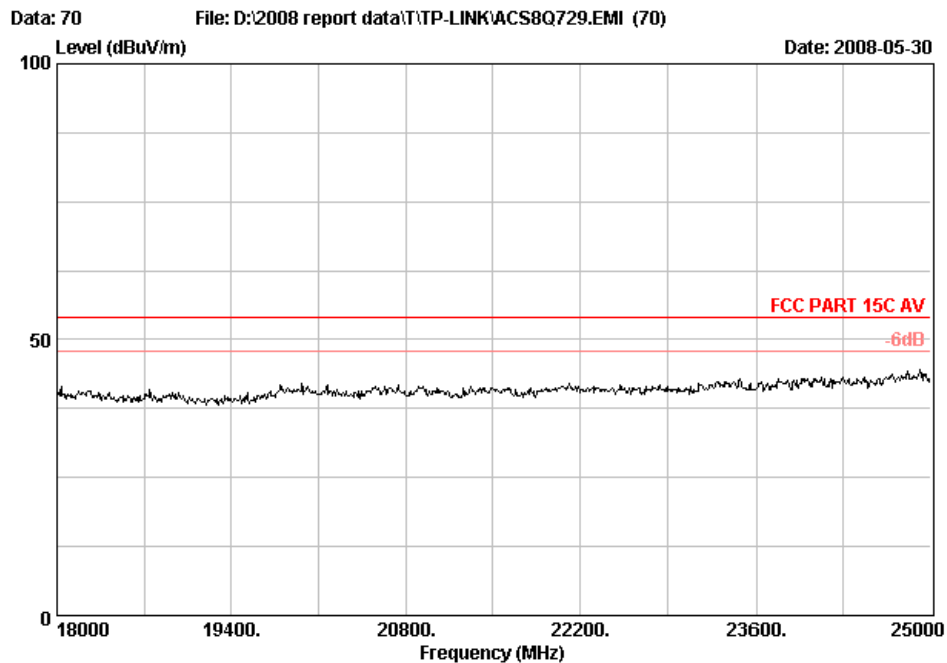
Site no. : RF Chamber Data no. : 67  
Dis. / Ant. : 3m Ant. pol. : VERTICAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11g CH6:2437MHz Tx



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Site no. : RF Chamber Data no. : 69  
Dis. / Ant. : 3m Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11g CH11:2462MHz Tx

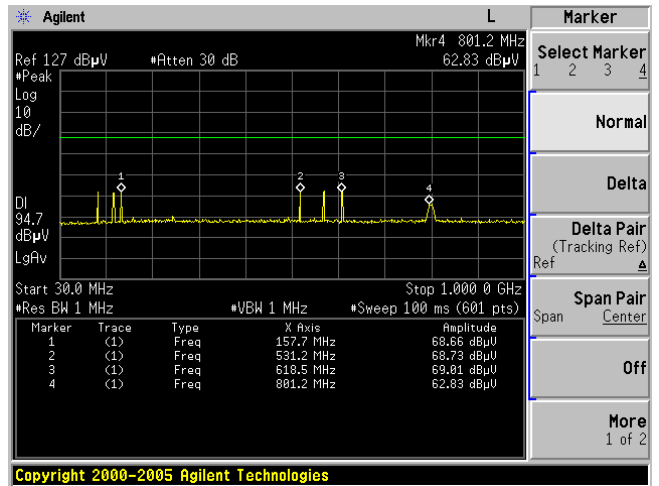
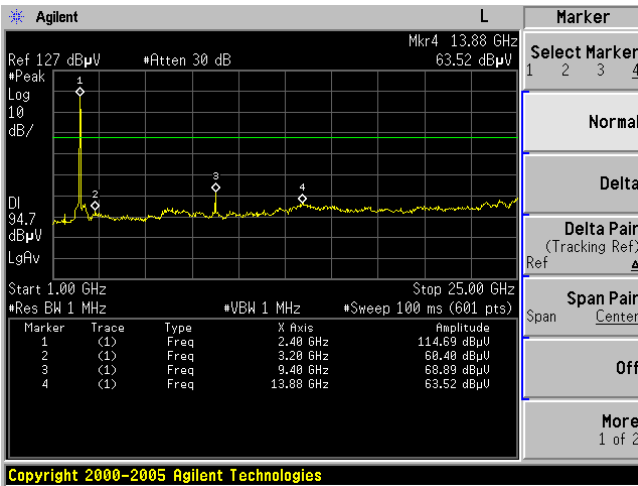


Site no. : RF Chamber Data no. : 70  
Dis. / Ant. : 3m Ant. pol. : VERTICAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Jamy  
EUT : 54M Wireless ADSL2+ Router  
Power Rating: DC 12V From Adapter AC 120V/60Hz  
Test Mode : IEEE802.11g CH11:2462MHz Tx

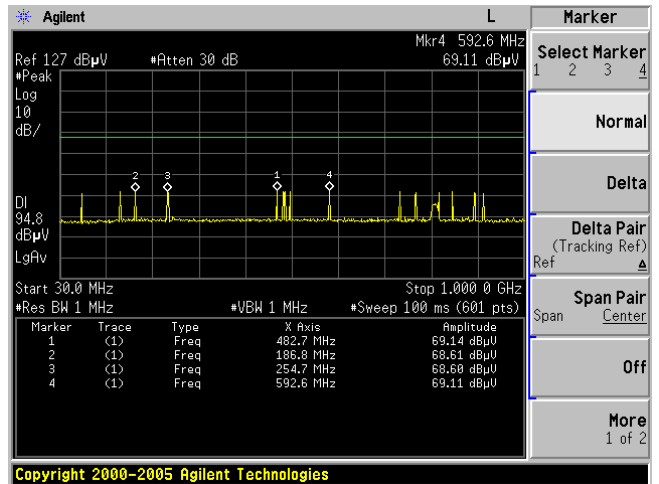
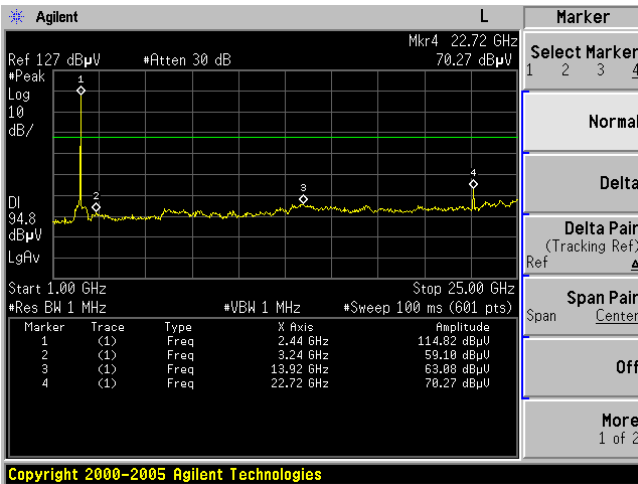
**Conducted emission test data:**

Test Mode: IEEE 802.11b TX

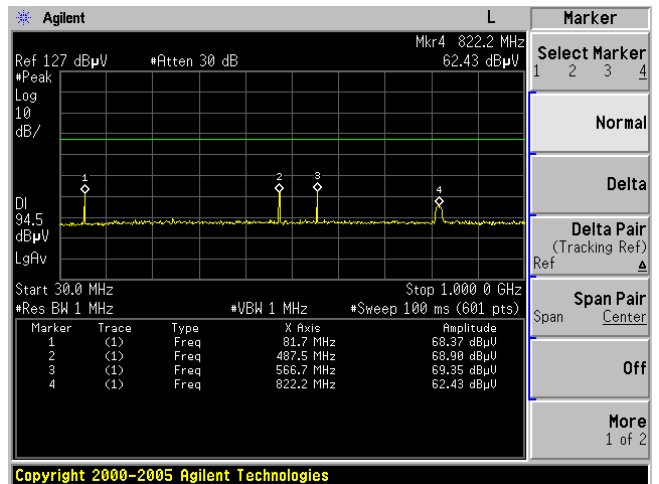
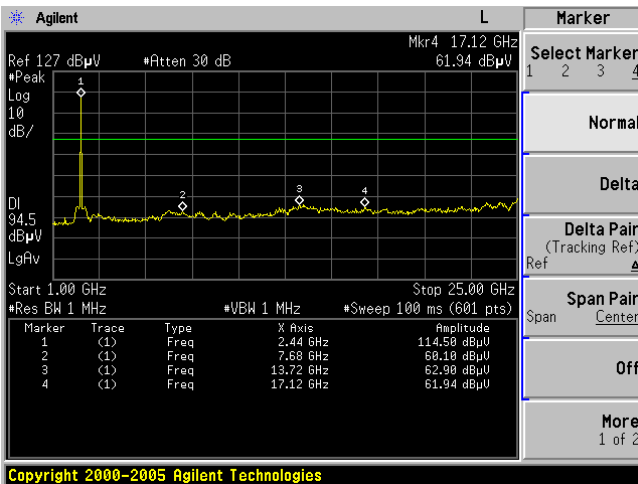
Test CH1: 2412MHz



**Test CH6: 2437MHz**

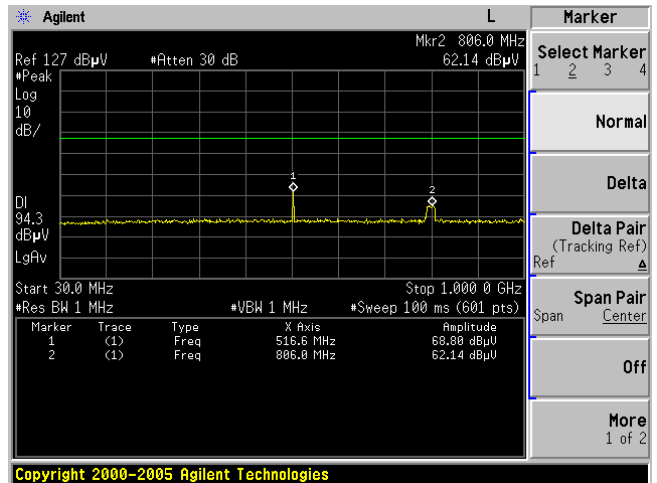
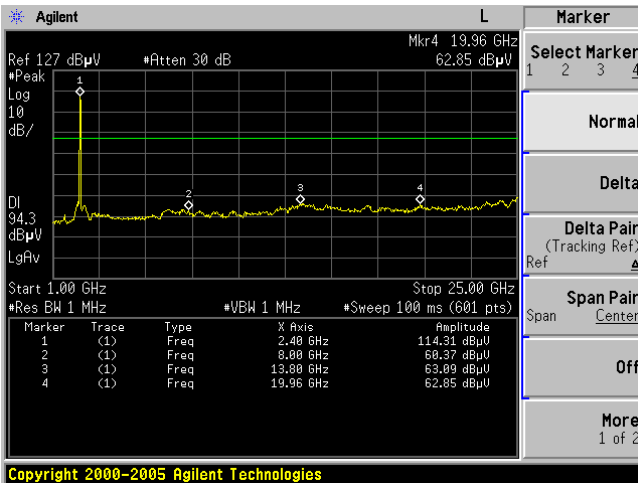


**Test CH11: 2462MHz**

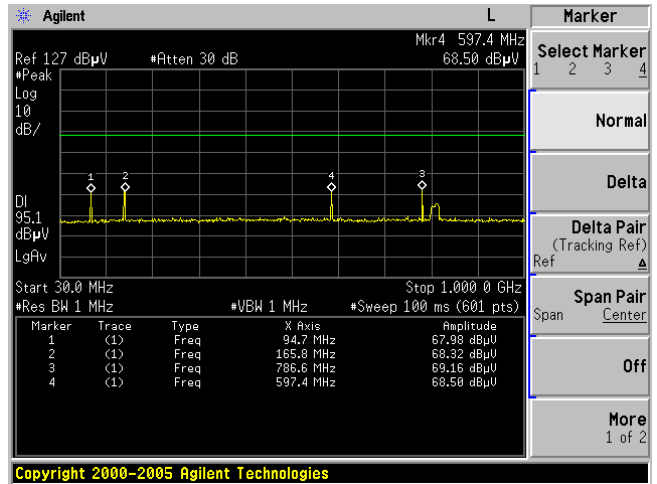
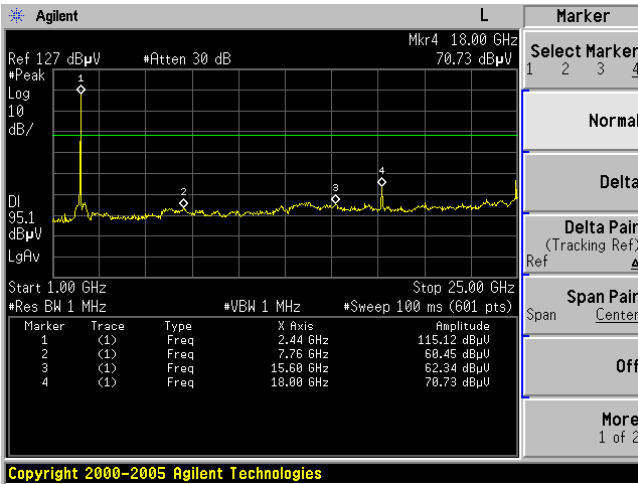


Test Mode: IEEE 802.11g TX

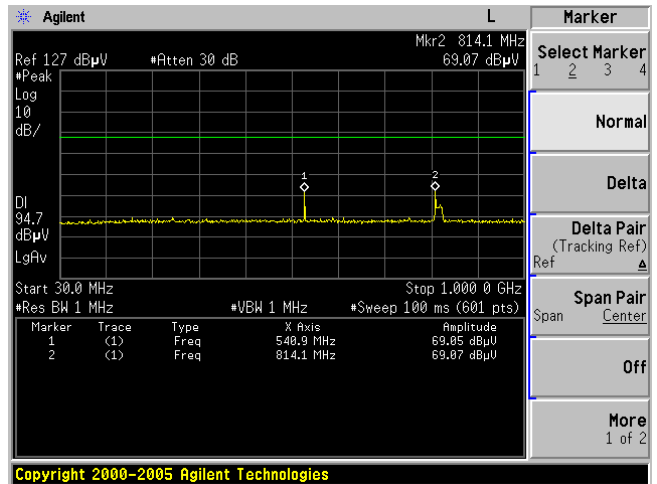
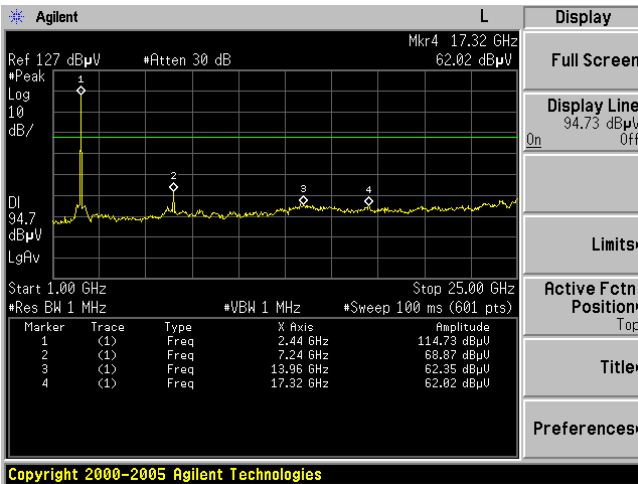
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



## 5. 6dB Bandwidth Test

### 5.1. Test Equipment

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	3008A00863	May 10, 08	1 Year
3.	Antenna	EMCO	3115	9607-4877	May. 27, 08	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 28, 08	1 Year

### 5.2. Test Information

EUT:	54M Wireless ADSL2+Router
M/N:	MR0-W8901G
Test Date:	Jun.01, 2008
Ambient Temperature:	23°C
Relative Humidity:	60%
Test standard:	FCC PART 15C: 15.247
Test mode:	IEEE 802.11b TX / IEEE 802.11g TX
Test Frequency:	CH1: 2412MHz CH6: 2437MHz CH11: 2462MHz
Tested By:	Jamy

### 5.3. Test Procedure

The transmitter output was connected to a spectrum analyzer . The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz 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.

## 5.4. Test Results

Test Mode: IEEE 802.11b TX

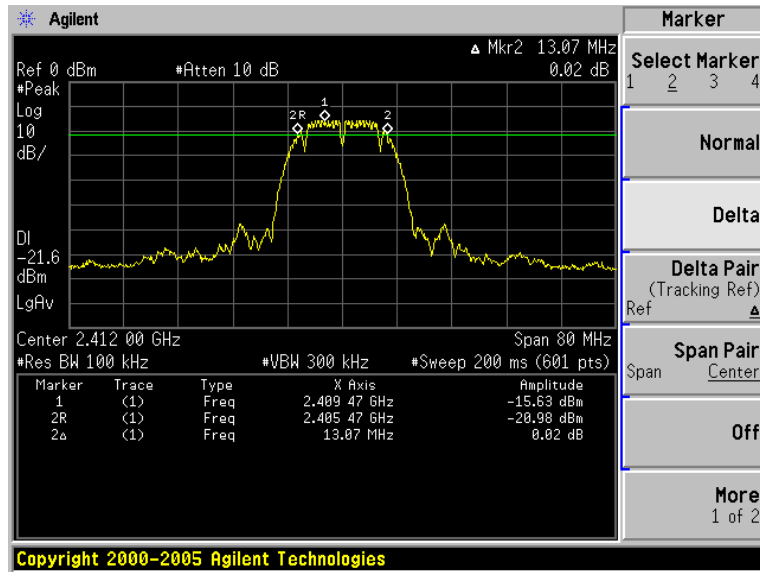
CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	13.07	>500	PASS
6	13.07	>500	PASS
11	13.07	>500	PASS

Test Mode: IEEE 802.11g TX

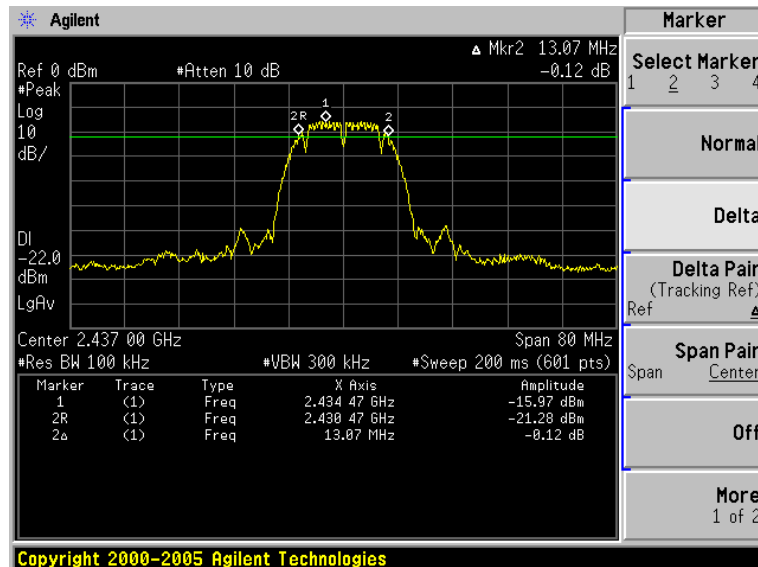
CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	16.27	>500	PASS
6	16.53	>500	PASS
11	16.27	>500	PASS

Test Mode: IEEE 802.11b TX

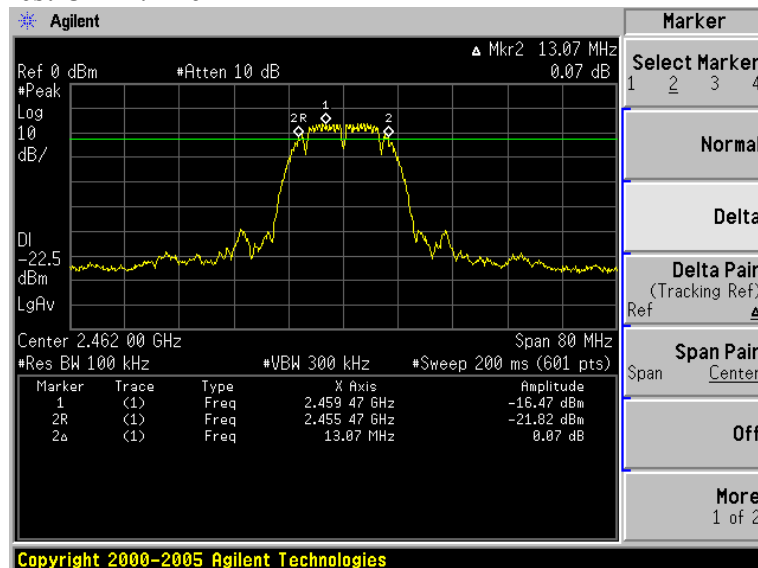
Test CH1: 2412MHz



Test CH6: 2437MHz

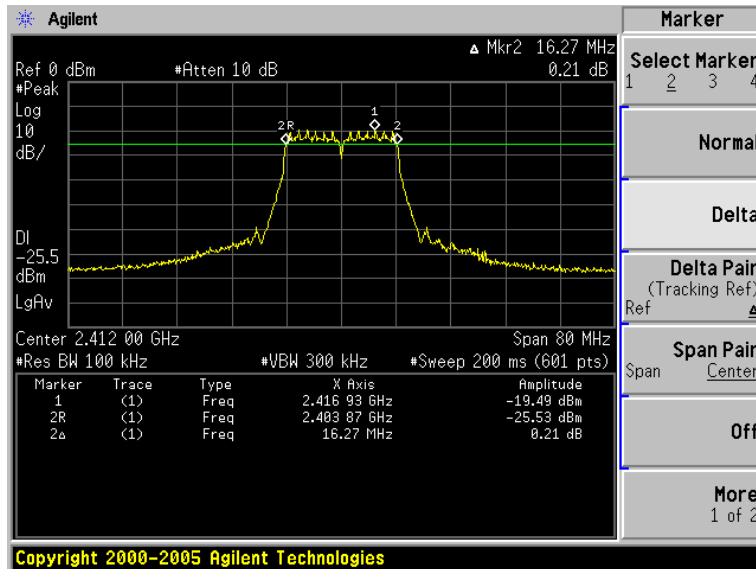


Test CH11: 2462MHz

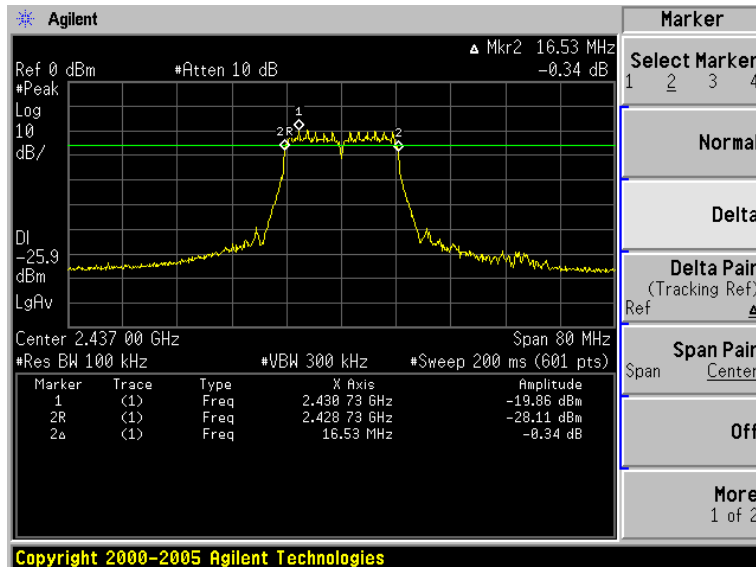




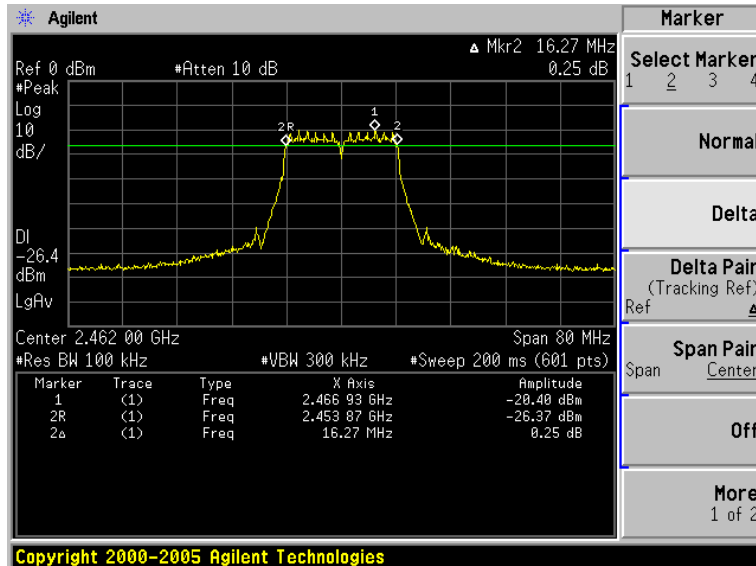
Test Mode: IEEE 802.11g TX  
 Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



## 6. OUTPUT POWER TEST

### 6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May 10, 08	1 Year
2	HF Cable	Hubersuhne	Sucoflex104	-	May 28, 08	1 Year
3	Power Meter	Anritsu	ML2487A	6k00003262	May.10, 08	1Year
4	Power Sensor	Anritsu	MA2491A	33005	May.10, 08	1Year

### 6.2. Test Procedure

The transmitter output was connected to a power meter, use the power meter to read out the peak out put power.

## 6.3.Test Results

<b>Maximum Peak Conducted Output Power</b>							
EUT: 54M Wireless ADSL2+Router				M/N: MR0-W8901G			
Power: DC 12V From adapter 120V/60Hz							
Ambient Temperature:24°C			Relative Humidity: 59%				
Test date:2008/06/02			Test site: RF site		Tested By: Sunny		
Test data rate: IEEE802.11b 1Mbps; IEEE802.11g: 6Mbps (see note1)							
Test CH		CH1:2412MHz CH6:2437MHz CH11:2462MHz					
Soft set	Mode	CH	Peak Read (dBm)	Cable loss (dBm)	Result (dBm)	Limit (dBm)	Conclusion
19	11b	CH1	18.72	0.6	19.32	30.0	PASS
		CH6	18.09	0.6	18.69	30.0	PASS
		CH11	18.28	0.6	18.88	30.0	PASS
23	11g	CH1	22.62	0.6	23.22	30.0	PASS
		CH6	22.50	0.6	23.10	30.0	PASS
		CH11	21.42	0.6	22.02	30.0	PASS
Note1:According Exploratory test, These data rate have the maximum output power							
Note2:Result=Read+ cable loss							

## 7. BAND EDGE COMPLIANCE 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.	Amp	HP	8449B	3008A00863	May.10, 08	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 10, 08	1 Year

### 7.2. Limit

According to §15.247(c), in any 100 kHz 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).

### 7.3. Test Procedure

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

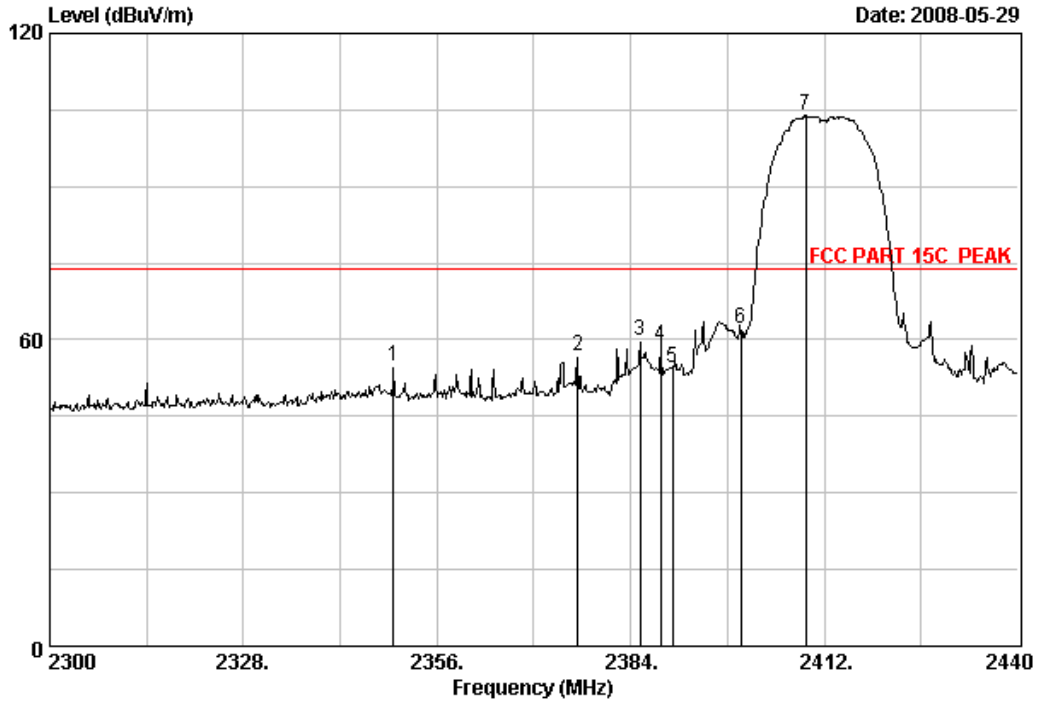
### 7.4. Test Results

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



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Postcode:518057

Data: 45 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 45  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx

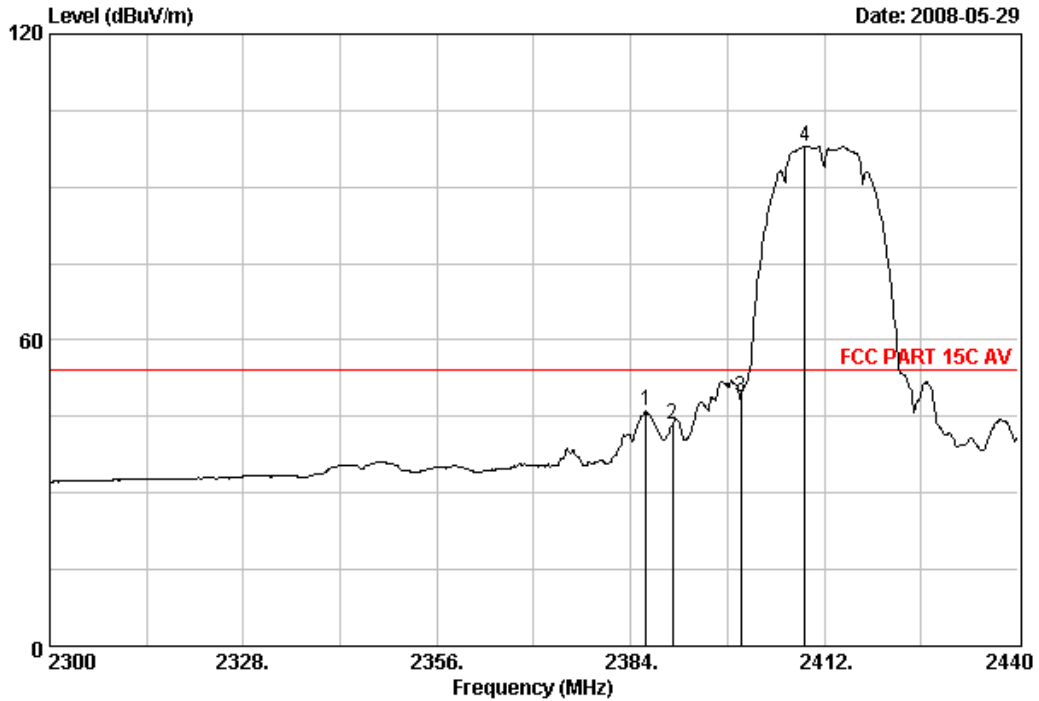
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2349.70	28.87	6.67	35.19	54.46	54.81	74.00	19.19	Peak
2	2376.30	28.95	6.71	35.19	56.26	56.73	74.00	17.27	Peak
3	2385.40	28.95	6.71	35.19	59.42	59.89	74.00	14.11	Peak
4	2388.34	28.99	6.71	35.18	58.40	58.92	74.00	15.08	Peak
5	2390.00	28.99	6.71	35.18	53.98	54.50	74.00	19.50	Peak
6	2400.00	28.99	6.73	35.18	61.47	62.01	74.00	11.99	Peak
7	2409.34	29.03	6.73	35.18	103.22	103.80	74.00	-29.80	Peak

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



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Postcode:518057

Data: 46 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 46  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx

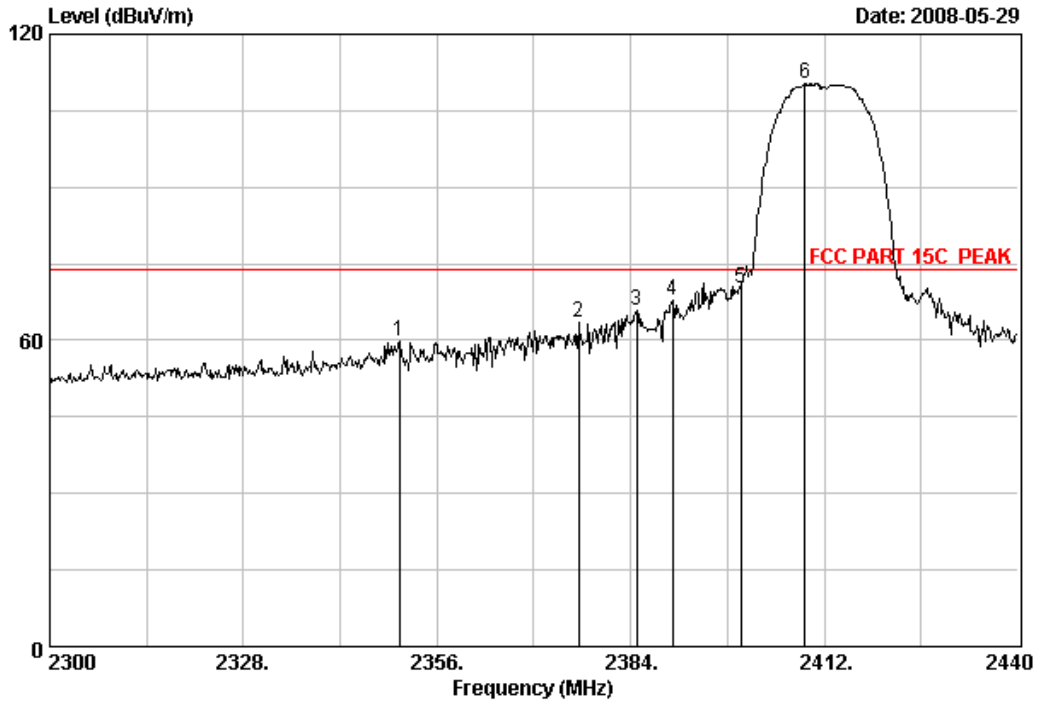
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	28.99	6.71	35.19	45.54	46.05	54.00	7.95	Average
2	28.99	6.71	35.18	42.92	43.44	54.00	10.56	Average
3	28.99	6.73	35.18	48.25	48.79	54.00	5.21	Average
4	29.03	6.73	35.18	97.52	98.10	54.00	-44.10	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: 43 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 43  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : S4M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx

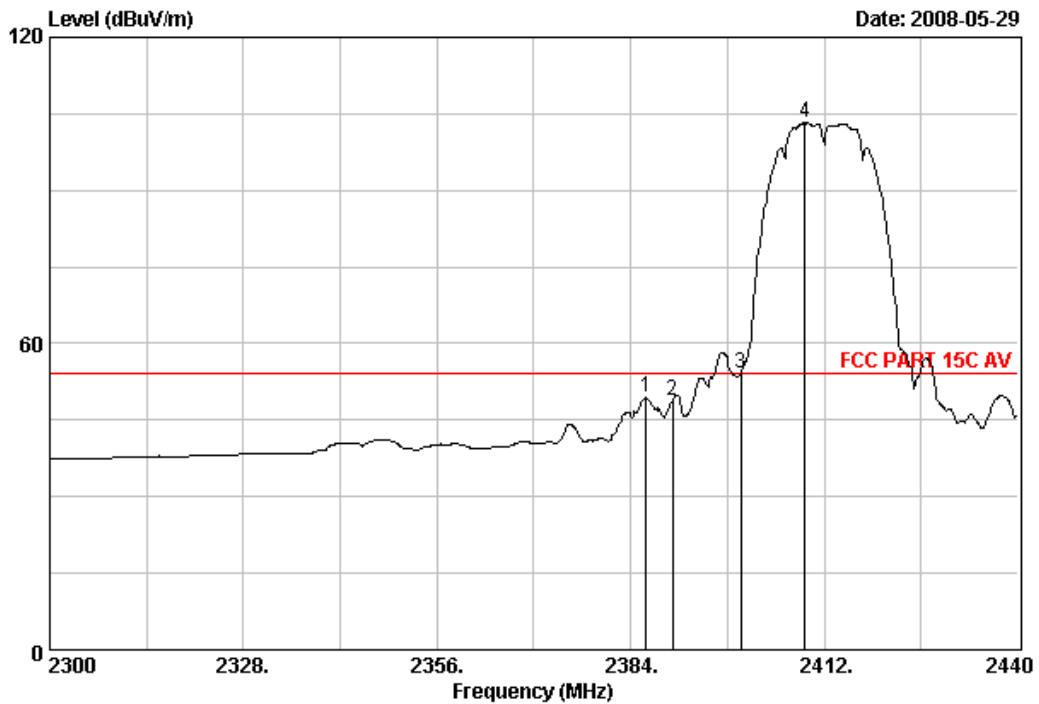
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2350.54	28.87	6.67	35.19	59.63	59.98	74.00	14.02	Peak
2	2376.44	28.95	6.71	35.19	62.99	63.46	74.00	10.54	Peak
3	2384.84	28.95	6.71	35.19	65.26	65.73	74.00	8.27	Peak
4	2390.00	28.99	6.71	35.18	67.19	67.71	74.00	6.29	Peak
5	2400.00	28.99	6.73	35.18	69.57	70.11	74.00	3.89	Peak
6	2409.20	29.03	6.73	35.18	109.66	110.24	74.00	-36.24	Peak

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



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Postcode:518057

Data: 44 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 44  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : S4M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH1:2412MHz Tx

	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	2386.24	28.99	6.71	35.19	48.93	49.44	54.00	4.56	Average
2	2390.00	28.99	6.71	35.18	48.20	48.72	54.00	5.28	Average
3	2400.00	28.99	6.73	35.18	53.60	54.14	54.00	-0.14	Average
4	2409.20	29.03	6.73	35.18	102.72	103.30	54.00	-49.30	Average

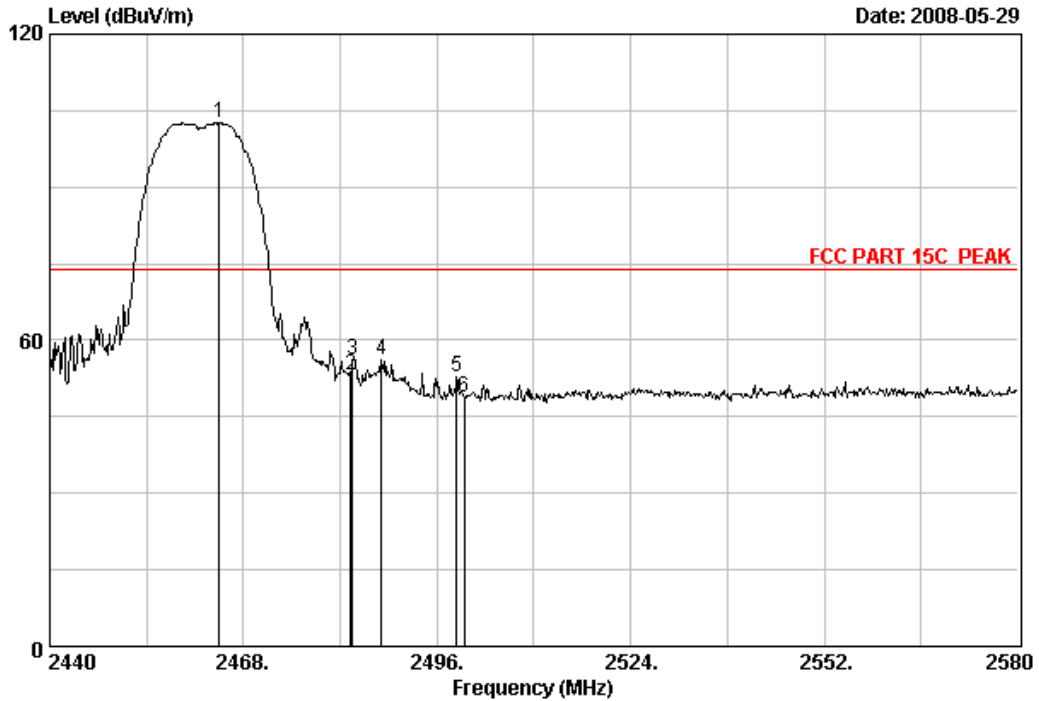
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Postcode:518057

Data: 47 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 47  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : S4M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx

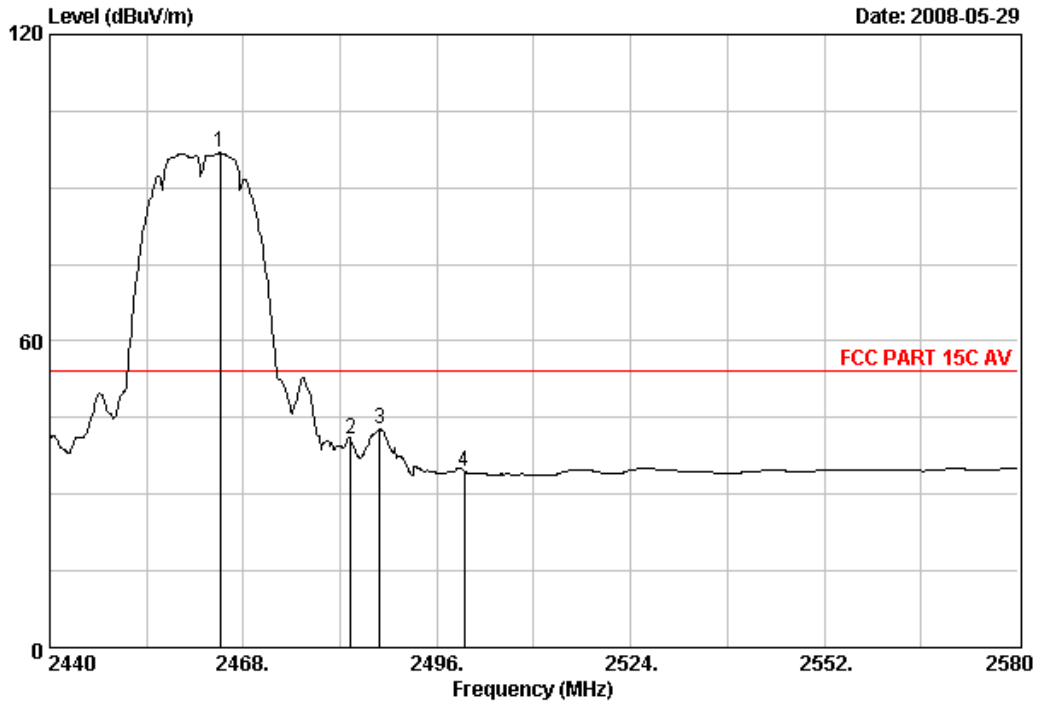
	Ant. Factor	Cable Loss	Amp Factor	Emission		Limits	Margin	Remark
Peak	(dB/m)	(dB)	(dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	29.15	6.84	35.16	101.88	102.71	74.00	-28.71	Peak
2	29.19	6.87	35.16	52.36	53.26	74.00	20.74	Peak
3	29.19	6.87	35.16	55.22	56.12	74.00	17.88	Peak
4	29.23	6.87	35.15	55.09	56.04	74.00	17.96	Peak
5	29.23	6.91	35.15	51.82	52.81	74.00	21.19	Peak
6	29.23	6.91	35.15	47.83	48.82	74.00	25.18	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: 48 File: D:\2008 report data\TTP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 48  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx

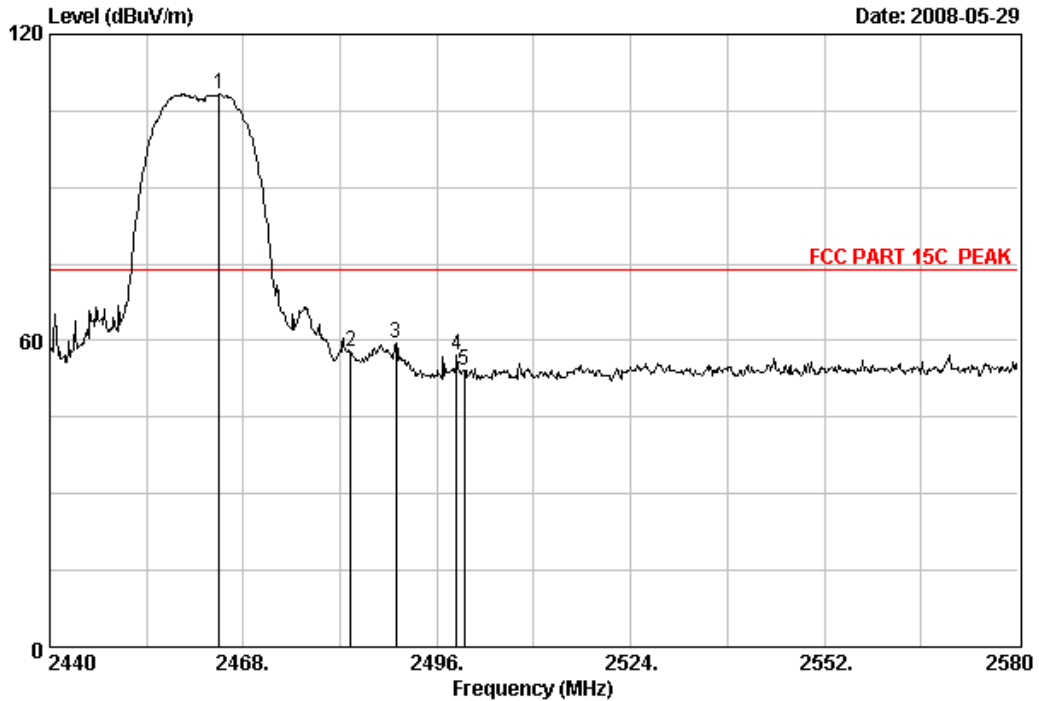
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	2464.64	29.15	6.84	35.16	96.08	96.91	54.00	-42.91	Average
2	2483.50	29.19	6.87	35.16	39.78	40.68	54.00	13.32	Average
3	2487.74	29.23	6.87	35.15	41.77	42.72	54.00	11.28	Average
4	2500.00	29.23	6.91	35.15	33.50	34.49	54.00	19.51	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: 49 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 49  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : S4M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx

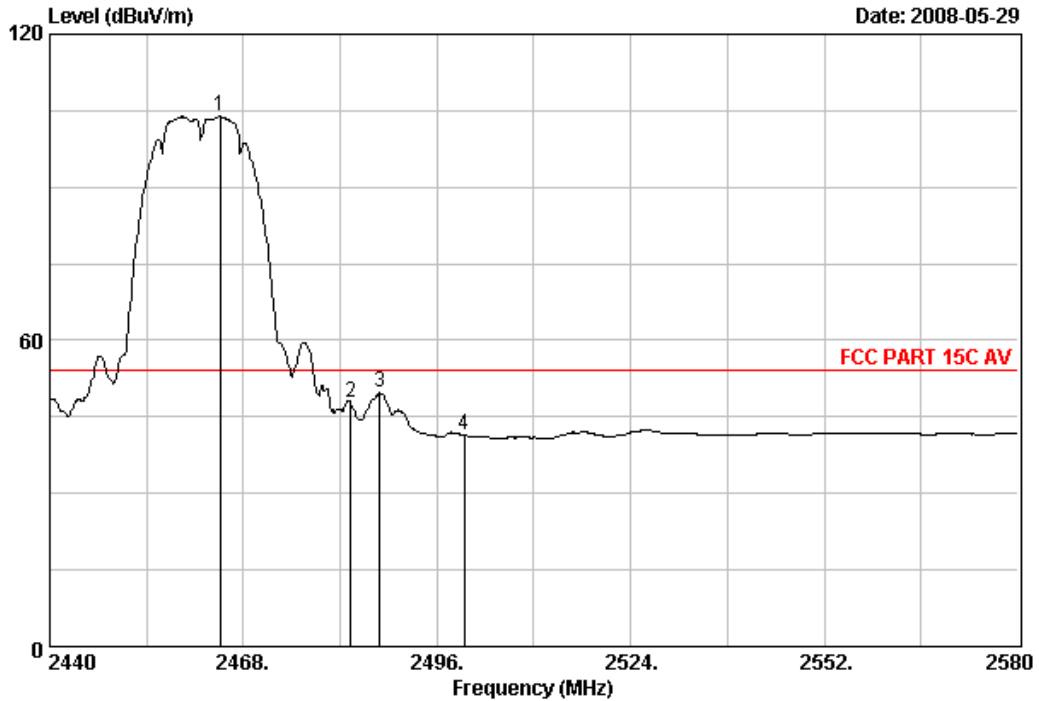
	Ant. Factor	Cable Loss	Amp Factor	Emission		Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	29.15	6.84	35.16	107.43	108.26	74.00	-34.26	Peak
2	29.19	6.87	35.16	56.91	57.81	74.00	16.19	Peak
3	29.23	6.91	35.15	58.47	59.46	74.00	14.54	Peak
4	29.23	6.91	35.15	56.07	57.06	74.00	16.94	Peak
5	29.23	6.91	35.15	53.16	54.15	74.00	19.85	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: 50 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 50  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11b CH11:2462MHz Tx

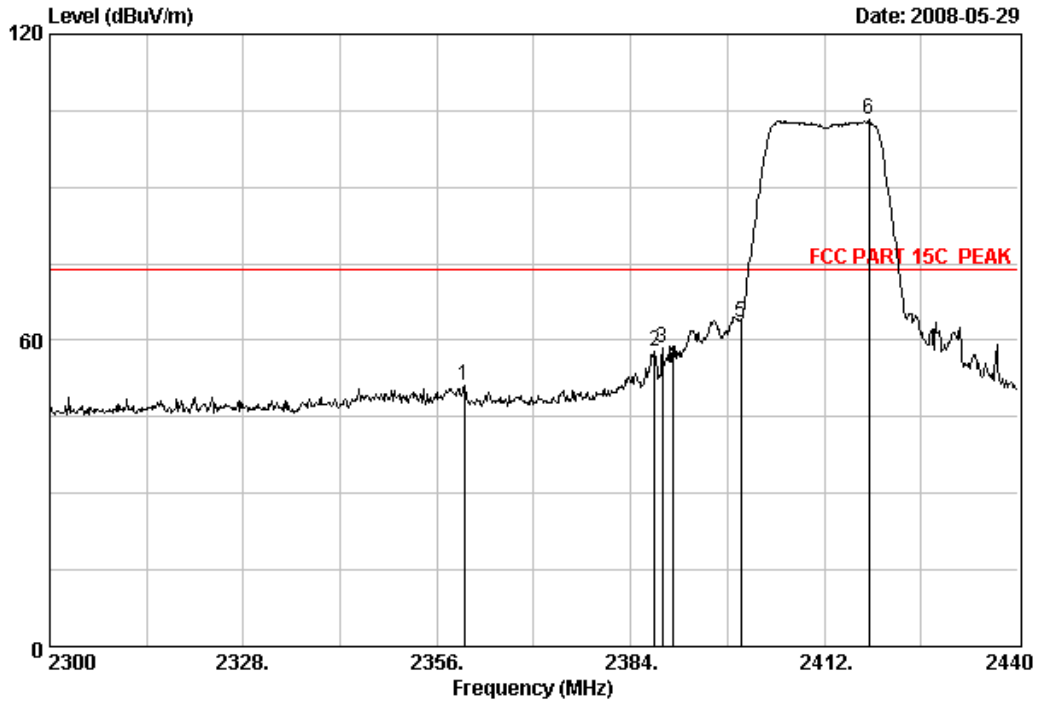
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
						Level (dBuV/m)	Limits (dBuV/m)		
1	2464.64	29.15	6.84	35.16	103.13	103.96	54.00	-49.96	Average
2	2483.50	29.19	6.87	35.16	46.83	47.73	54.00	6.27	Average
3	2487.74	29.23	6.87	35.15	48.69	49.64	54.00	4.36	Average
4	2500.00	29.23	6.91	35.15	40.33	41.32	54.00	12.68	Average

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



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Postcode:518057

Data: 53 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 53  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : S4M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx

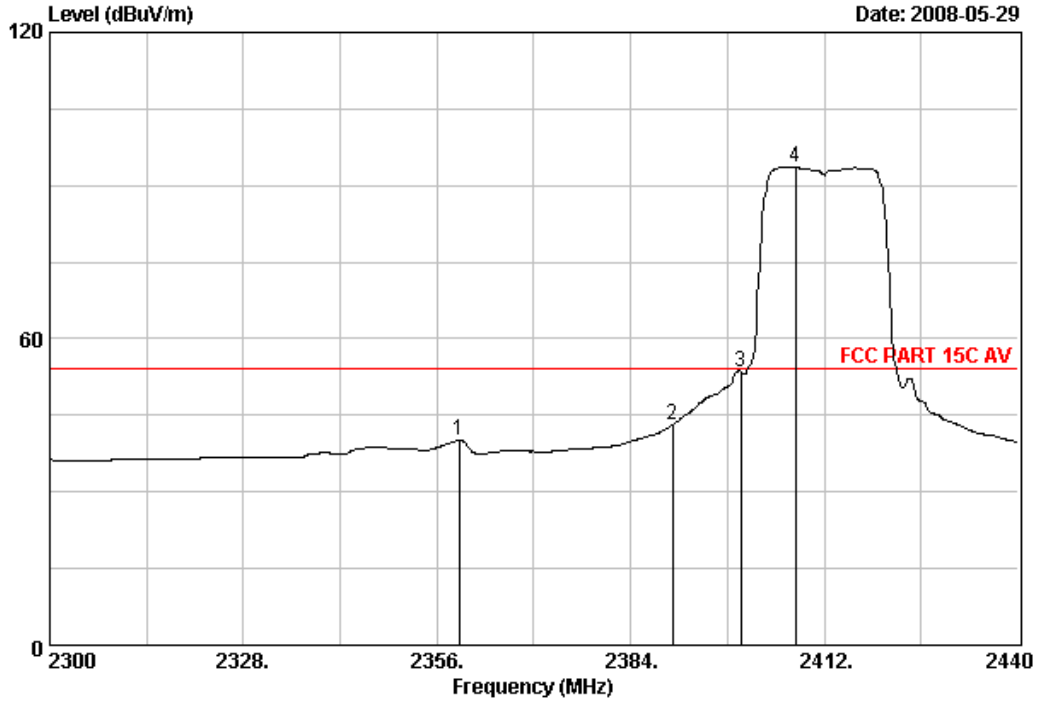
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2359.92	28.91	6.69	35.19	50.61	51.02	74.00	22.98	Peak
2	2387.50	28.99	6.71	35.18	57.25	57.77	74.00	16.23	Peak
3	2388.62	28.99	6.71	35.18	57.99	58.51	74.00	15.49	Peak
4	2390.00	28.99	6.71	35.18	54.26	54.78	74.00	19.22	Peak
5	2400.00	28.99	6.73	35.18	63.11	63.65	74.00	10.35	Peak
6	2418.44	29.03	6.77	35.17	102.49	103.12	74.00	-29.12	Peak

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



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 Postcode:518057

Data: 54 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 54  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx

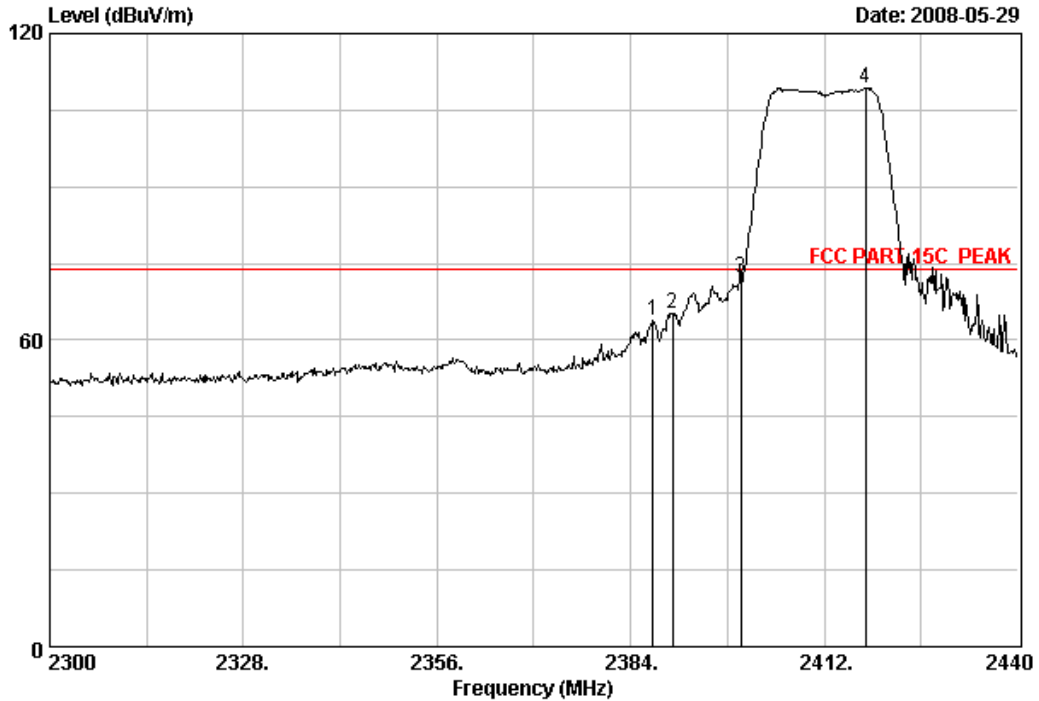
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2359.22	28.91	6.69	35.19	39.71	40.12	54.00	13.88	Average
2	2390.00	28.99	6.71	35.18	42.56	43.08	54.00	10.92	Average
3	2400.00	28.99	6.73	35.18	53.00	53.54	54.00	0.46	Average
4	2407.80	29.03	6.73	35.18	92.96	93.54	54.00	-39.54	Average

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



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 Postcode:518057

Data: 51 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 51  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx

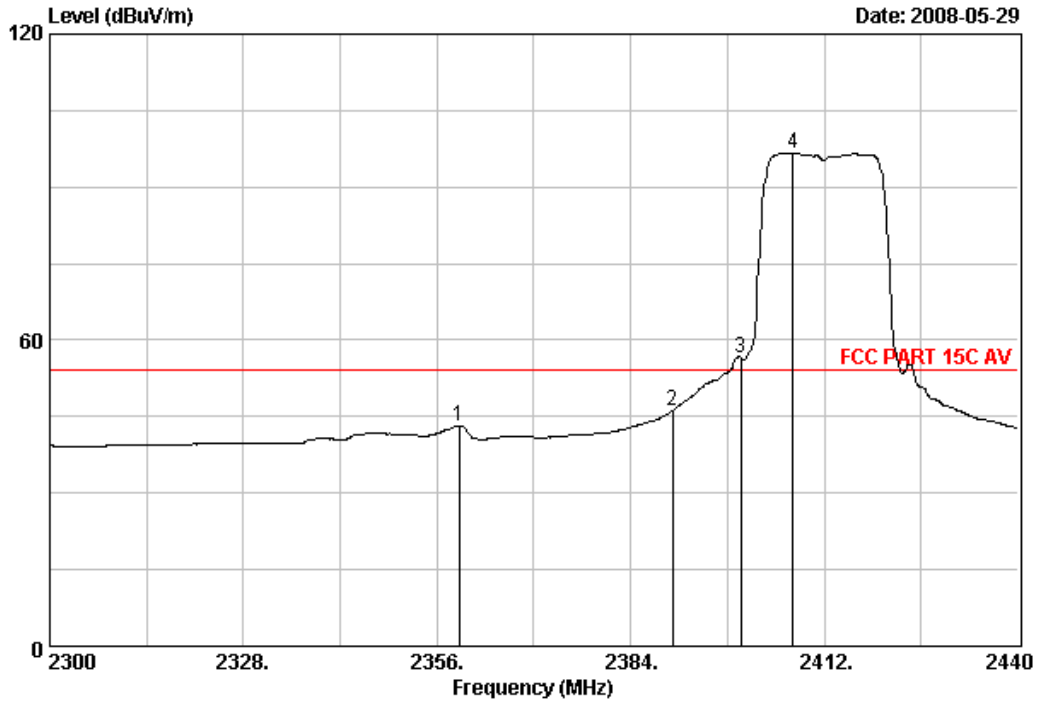
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2387.22	28.99	6.71	35.19	63.32	63.83	74.00	10.17	Peak
2	2390.00	28.99	6.71	35.18	64.69	65.21	74.00	8.79	Peak
3	2400.00	28.99	6.73	35.18	71.55	72.09	74.00	1.91	Peak
4	2418.02	29.03	6.77	35.17	108.83	109.46	74.00	-35.46	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: 52 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 52  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH1:2412MHz Tx

	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	28.91	6.69	35.19	42.75	43.16	54.00	10.84	Average
2	28.99	6.71	35.18	45.64	46.16	54.00	7.84	Average
3	28.99	6.73	35.18	56.07	56.61	54.00	-2.61	Average
4	29.03	6.73	35.18	95.99	96.57	54.00	-42.57	Average

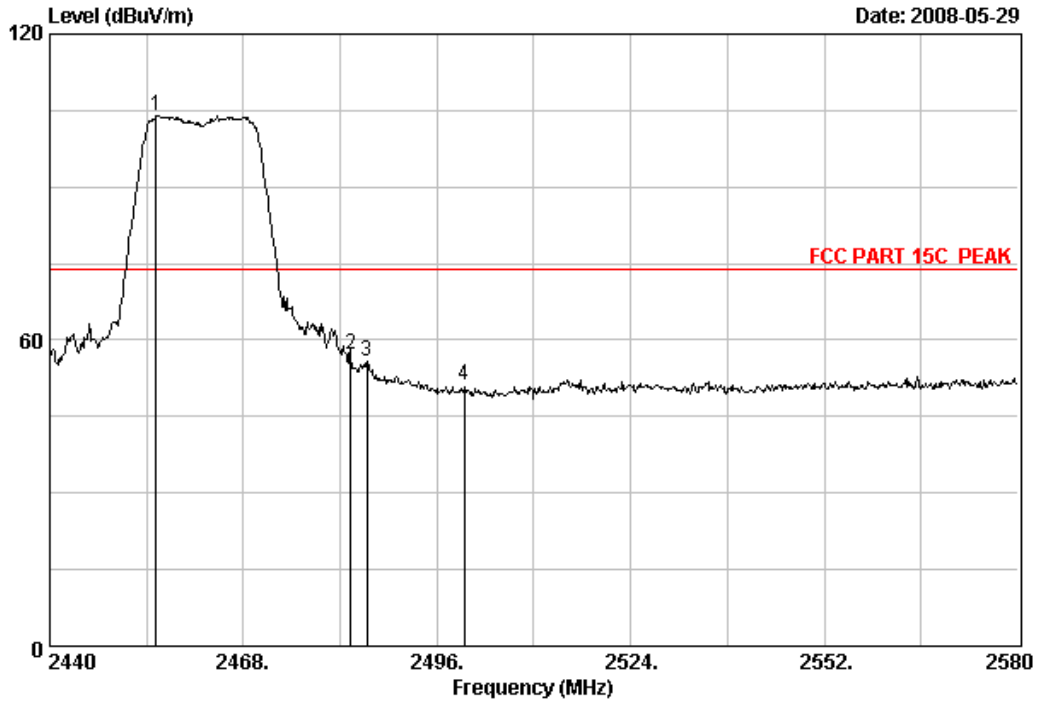
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 55 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 55  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx

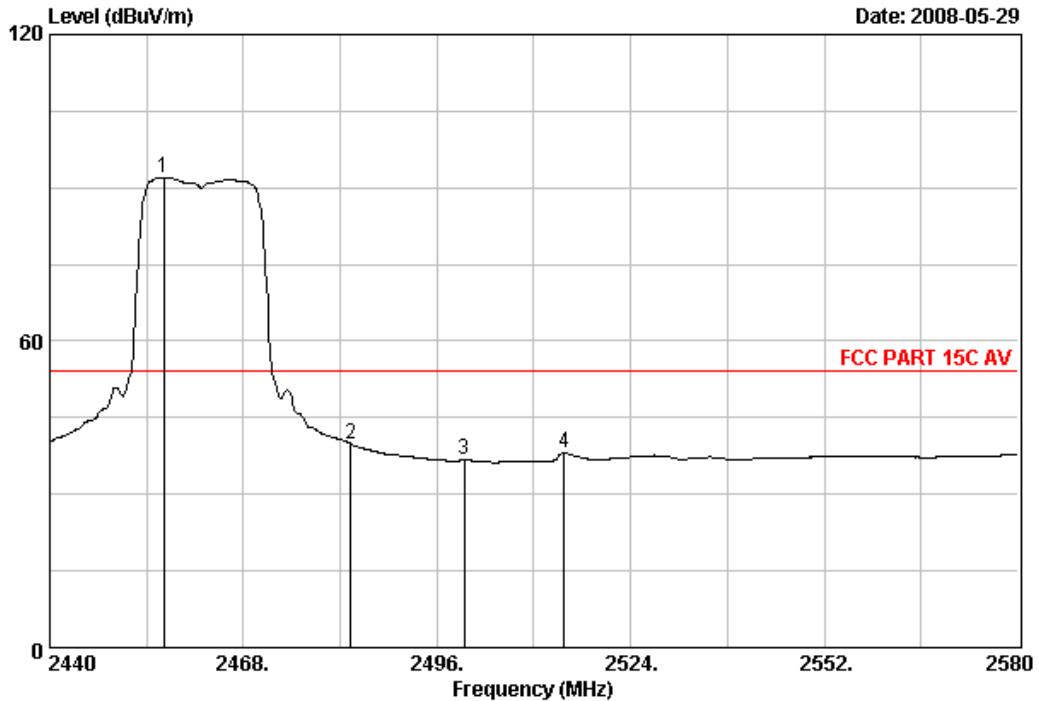
	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2455.40	29.15	6.84	35.17	103.22	104.04	74.00	-30.04	Peak
2	2483.50	29.19	6.87	35.16	56.38	57.28	74.00	16.72	Peak
3	2485.92	29.19	6.87	35.16	54.83	55.73	74.00	18.27	Peak
4	2500.00	29.23	6.91	35.15	50.02	51.01	74.00	22.99	Peak

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



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 Postcode:518057

Data: 56 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 56  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx

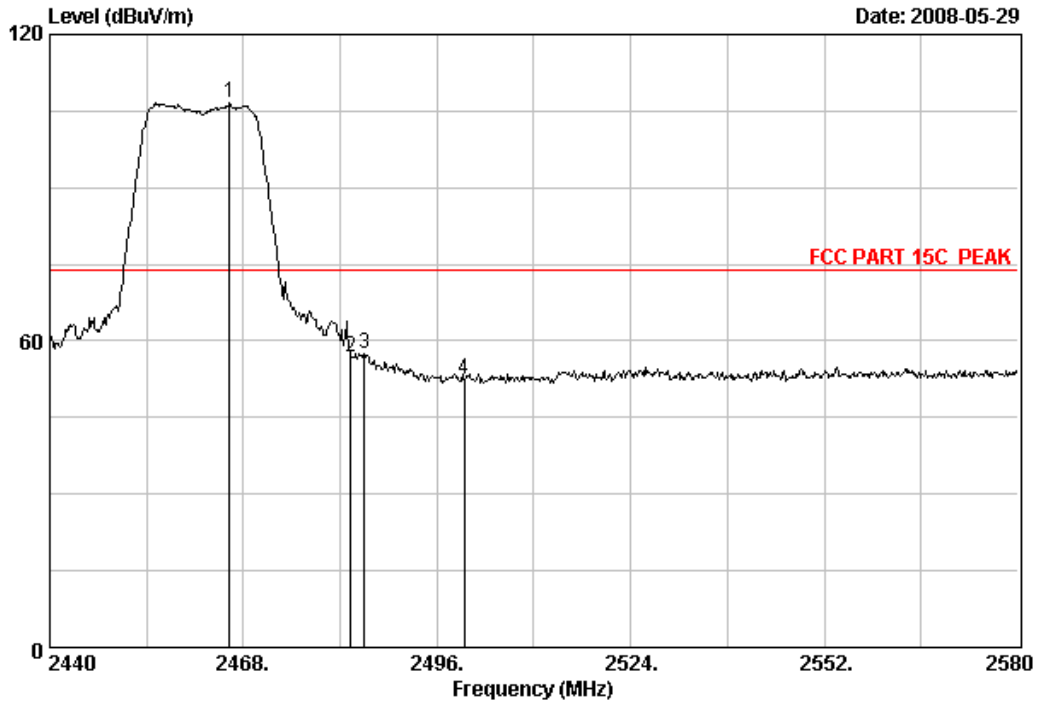
	Ant. Factor	Cable Loss	Amp Factor	Emission		Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	29.15	6.84	35.17	91.07	91.89	54.00	-37.89	Average
2	29.19	6.87	35.16	38.99	39.89	54.00	14.11	Average
3	29.23	6.91	35.15	35.64	36.63	54.00	17.37	Average
4	29.29	6.93	35.14	36.99	38.07	54.00	15.93	Average

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



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Data: 57 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 57  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx

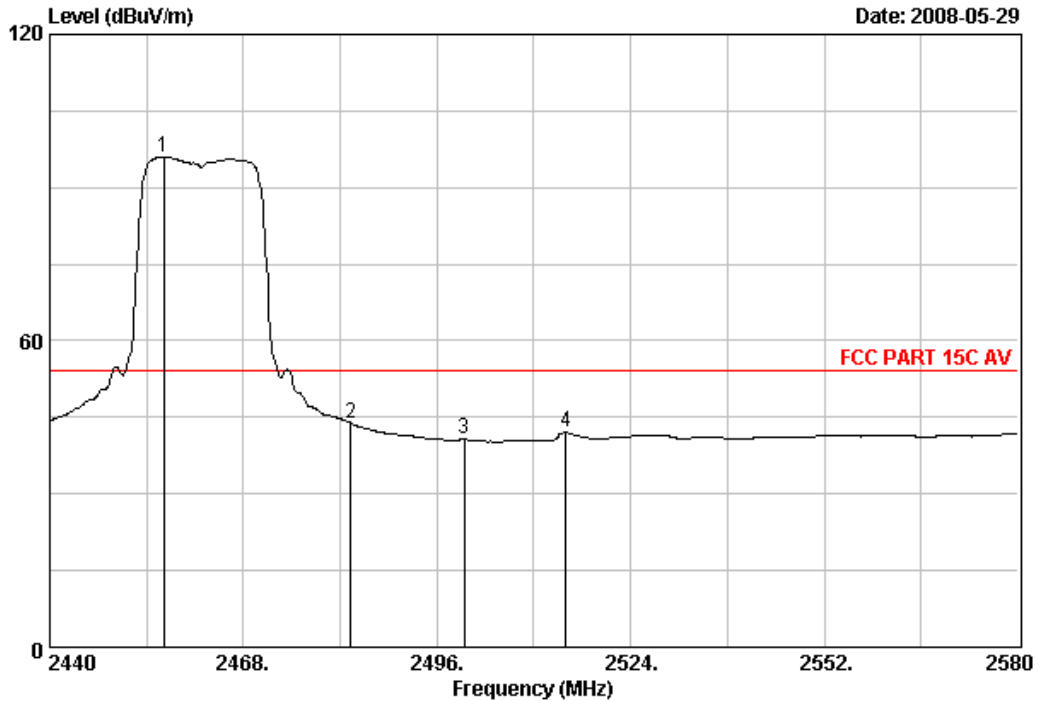
	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark	
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2466.04	29.15	6.84	35.16	105.74	106.57	74.00	-32.57	Peak
2	2483.50	29.19	6.87	35.16	55.84	56.74	74.00	17.26	Peak
3	2485.50	29.19	6.87	35.16	56.58	57.48	74.00	16.52	Peak
4	2500.00	29.23	6.91	35.15	51.44	52.43	74.00	21.57	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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Data: 58 File: D:\2008 report data\T\TP-LINK\ACS8Q729.EMI (58)



Site no. : RF Chamber Data no. : 58  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Jamy  
 EUT : 54M Wireless ADSL2+ Router  
 Power Rating: DC 12V From Adapter AC 120V/60Hz  
 Test Mode : IEEE802.11g CH11:2462MHz Tx

	Ant. Factor	Cable Loss	Amp Factor	Emission		Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1 2456.52	29.15	6.84	35.17	95.08	95.90	54.00	-41.90	Average
2 2483.50	29.19	6.87	35.16	42.97	43.87	54.00	10.13	Average
3 2500.00	29.23	6.91	35.15	39.63	40.62	54.00	13.38	Average
4 2514.62	29.29	6.93	35.14	40.97	42.05	54.00	11.95	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.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May 10, 08	1 Year
2.	HF Cable	Hubersuhne	Sucoflex104	-	May 28, 08	1 Year
3	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year

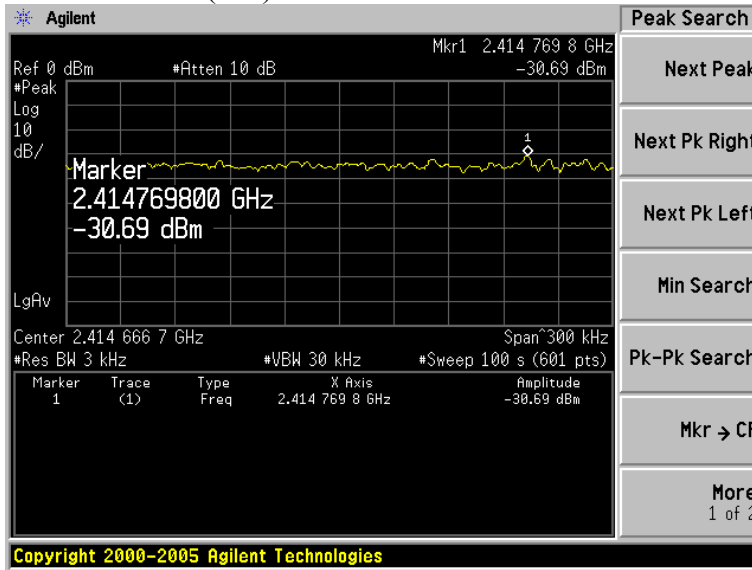
### 8.2. Test Procedure

The transmitter output was connected to a spectrum analyzer . The power density was measured by spectrum analyzer with 3 KHz RBW and 30KHz VBW, sweep time=span/3KHz.

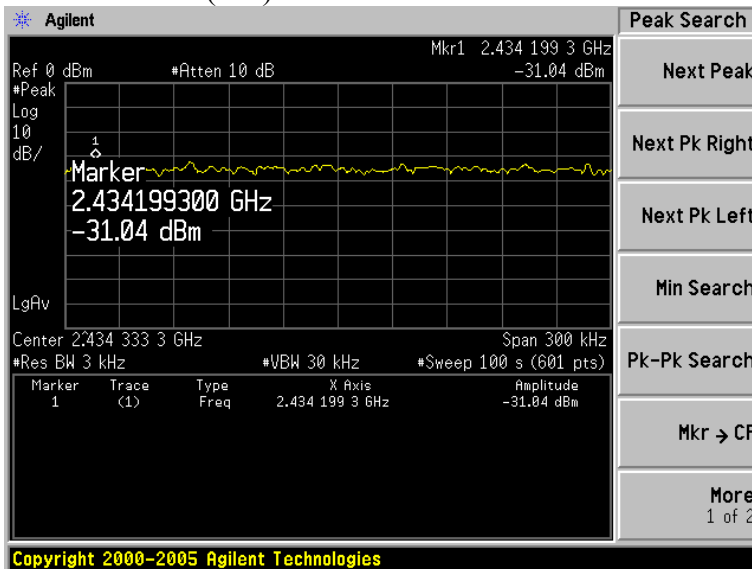
## 8.3.Test Results

<b>Maximum Power density</b>							
EUT:54M Wireless ADSL2+Router M/N:MR0-W8901G							
Power: DC 12V From adapter 120V/60Hz							
Data Rate:11b: 1Mbps ; 11g : 6Mbps (Note 1)							
Cable Loss=0.6dB Attenuator=20dB Antenna Gain=3dBi							
Ambient Temperature:23°C				Relative Humidity: 60%			
Test date:2008/05/27			Test site: RF site		Tested By: Sunny		
Test CH	CH1:2412MHz CH6:2437MHz CH11:2462MHz						
Mode	CH	Read(dBm)	Cable Loss (dB)	Attenuator (dB)	Result (dBm)	Limit(dBm)	Conclusion
11b	CH1	-30.69	0.6	20.0	-10.09	8.00	<b>PASS</b>
	CH6	-31.04	0.6	20.0	-10.44	8.00	<b>PASS</b>
	CH11	-32.86	0.6	20.0	-12.26	8.00	<b>PASS</b>
11g	CH1	-34.24	0.6	20.0	-13.64	8.00	<b>PASS</b>
	CH6	-34.62	0.6	20.0	-14.02	8.00	<b>PASS</b>
	CH11	-34.77	0.6	20.0	-14.17	8.00	<b>PASS</b>
Note1:According Exploratory test, These data rate have the maximum output power							
Note2:Result=Read+Cable loss+ Attenuator							

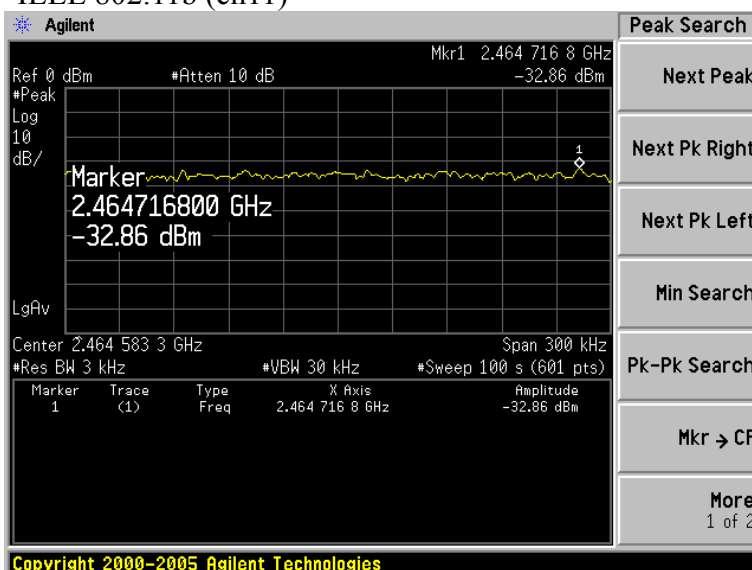
IEEE 802.11b (ch1)



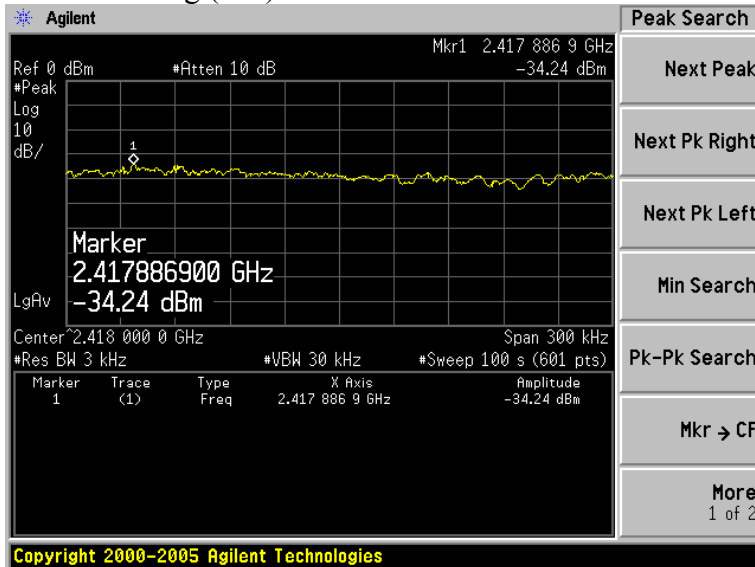
IEEE 802.11b (ch6)



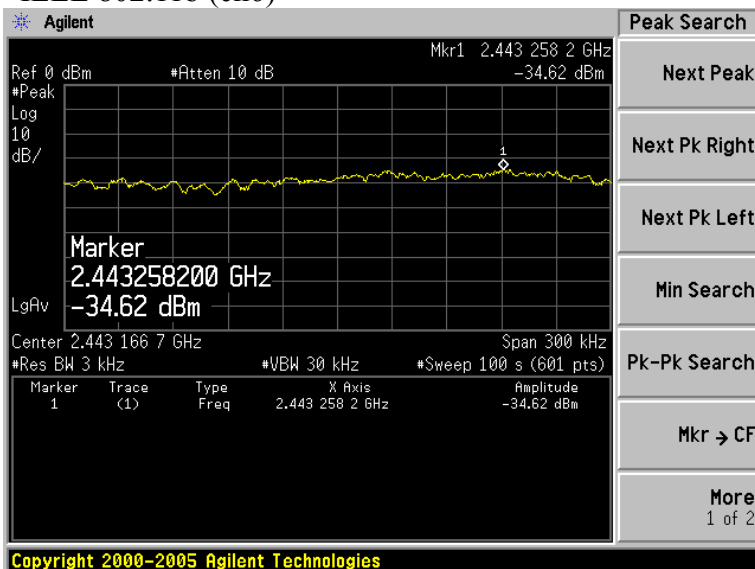
IEEE 802.11b (ch11)



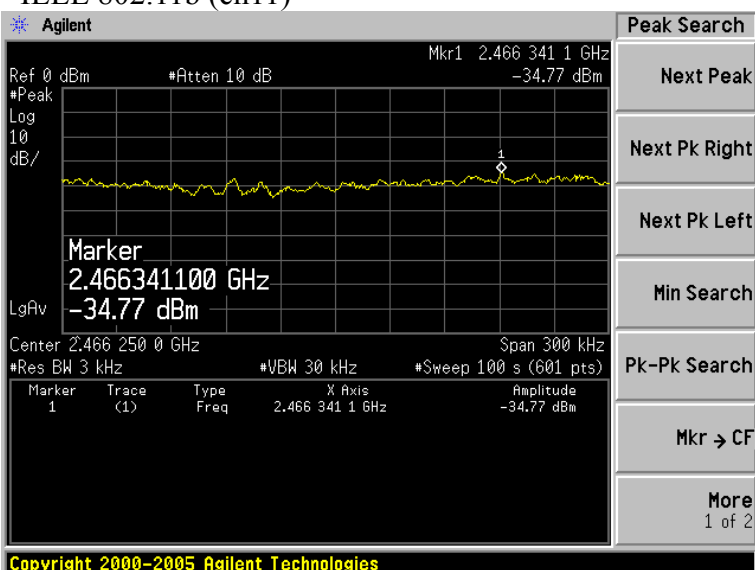
IEEE 802.11g (ch1)



IEEE 802.11b (ch6)



IEEE 802.11b (ch11)





## 9. MPE ESTIMATION

### 9.1.Limit for General Population / Uncontrolled Exposures

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

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

Note: F = Frequency in MHz

### 9.2.Estimation Result

Mode	CH	Output power (dBm)	Output power (mW)	Antenna Gain (dBi)	Antenna Gain (Numeric)	MPE estimation Result (mW/cm <sup>2</sup> )
IEEE802.11b	CH1	<b>19.32</b>	85.51	3	2	0.034
	CH6	<b>18.69</b>	73.96	3	2	0.029
	CH11	<b>18.88</b>	77.27	3	2	0.031
IEEE802.11g	CH1	<b>23.22</b>	209.89	3	2	0.084
	CH6	<b>23.10</b>	204.17	3	2	0.081
	CH11	<b>22.02</b>	159.22	3	2	0.063
CH1:2412MHz CH6:2437MHz CH11:2462MHz						

## **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 antenna used for this product is antenna with SMA-B connector (see EUT photo) that no antenna other than that furnished by the responsible party shall be used with the device, The maximum peak gain of this antenna is only 3dBi.

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

[ NONE ]