APPLICATION FOR CERTIFICATION
On Behalf of

TP-LINK Technologies Co., Ltd.

54Mbps Wireless Mini PCI Adapter

Model Number: TL-WN360G

FCC ID: TE7WN360G

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

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

Tel: (0755) 26639496

Report Number	:	ACS-F10067
Date of Test	:	Mar.28~31, 2010
Date of Report	:	Apr.01, 2010

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TEST REPORT CERTIFICATION

Applicant	:	TP-LINK Technologies Co., Ltd.
Manufacturer	:	TP-LINK Technologies Co., Ltd.
EUT Description	:	54Mbps Wireless Mini PCI Adapter
FCC ID	:	TE7WN360G

(A) MODEL NO. : TL-WN360G

(B) SERIAL NO. : N/A

(C) POWER SUPPLY : DC 3.3V From PC

(D) TEST VOLTAGE : DC 3.3V From PC Input
AC 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2008

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.
The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

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

Date of Test : Mar.28~31, 2010

Prepared by : Edie Huang
Edie Huang / Assistant

Reviewer : Jamy Yu
Jamy Yu / Supervisor

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

Approved & Authorized Signer :
Ken Lu / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

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

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

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product Name	:	54Mbps Wireless Mini PCI Adapter
Model Number	:	TL-WN360G
FCC ID	:	TE7WN360G
Operation Frequency	:	IEEE 802.11b/g: 2412MHz---2462MHz
Channel Number	:	IEEE 802.11b/g: 11 Channels
Modulation Technology	:	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)
PK Output Power	:	IEEE 802.11b: 18.32dBm IEEE 802.11g: 24.53dBm
Antenna used for test	:	Dipole antenna, 2dBi gain Note: This device have two antenna ports, and in working device will choose one antenna port for use automatic each time.
Applicant	:	TP-LINK Technologies Co., Ltd. Building 7, Second Part, Honghualing Industrial Zone, Xili town, Nanshan, Shenzhen, P.R. China
Manufacturer	:	TP-LINK Technologies Co., Ltd. Building 7, Second Part, Honghualing Industrial Zone, Xili town, Nanshan, Shenzhen, P.R. China
Date of Test	:	Mar.28~31, 2010
Date of Receipt	:	Mar.14, 2010
Sample Type	:	Prototype production

2.2.Test information

The test software “art.exe” was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information			
Mode	data rate (Mpbs)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	2	Low :CH1	2412
	2	Middle: CH6	2437
	2	High: CH11	2462
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
According exploratory test, EUT will have maximum PK output power in those data rate, so those data rate were used for all test. This device have two antenna ports, but not use synchronous, device will use only one antenna port each time. So all the conducted tests were performed with two antennas. For radiated emissions test, according to exploratory test, when test with antenna port 1 will have maximum emissions, so all the final radiated emissions were chosen with antenna port 1. A special tes jig was used to make EUT worked in stand alone.			

2.3.Date rate VS power

Mode	Data rate(Mbps)	CH	Chain 1 Level (dBm)	Chain 2 Level (dBm)	Limit (dBm)
11b	1	CH6	18.12	17.89	30
	2	CH6	18.21	18.03	30
	5.5	CH6	18.03	17.67	30
	11	CH6	18.11	17.90	30
11g	6	CH6	24.53	24.27	30
	9	CH6	24.34	24.21	30
	12	CH6	24.33	24.12	30
	18	CH6	24.21	24.10	30
	24	CH6	24.34	24.13	30
	36	CH6	24.23	24.12	30
	48	CH6	24.41	24.09	30
	54	CH6	24.11	24.03	30
When IEEE 802.11b’s data rate was 2Mbps ; IEEE 802.11g’s data rate was 6Mbps, the EUT have maximum output power and so all the test was performed in this data rate set.					

2.4.Tested Supporting System Details

2.4.1. 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)

2.5.Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park,Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Mar.31, 2009 File on Federal Communication Commission Registration Number: 90454
3m & 10m Anechoic Chamber	:	Dec. 30, 2009 File on Federal Communication Commission Registration Number: 794232
EMC Lab.	:	Accredited by DATech, German Registration Number: DAT-P-091/99-01 Feb. 02, 2009 Accredited by NVLAP, USA NVLAP Code: 200372-0 Apr. 01, 2009

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

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	2.40dB
Uncertainty for Radiation Emission test in 3m chamber	3.78 dB (Polarize: V)
	4.20 dB (Polarize: H)
Uncertainty for Radiated Spurious Emission test in RF chamber	2.70 dB (Bilog antenna 30M~1000MHz)
	2.27 dB (Horn antenna 1000M~25000MHz)
Uncertainty for Conduction Spurious emission test	2.10 dB
Uncertainty for Output power test	0.94 dB
Uncertainty for Power density test	2.10 dB
Uncertainty for Temperature and humidity test	2%
	1℃
Uncertainty for Bandwidth test	$1x10^{-9}$
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6℃
	3%

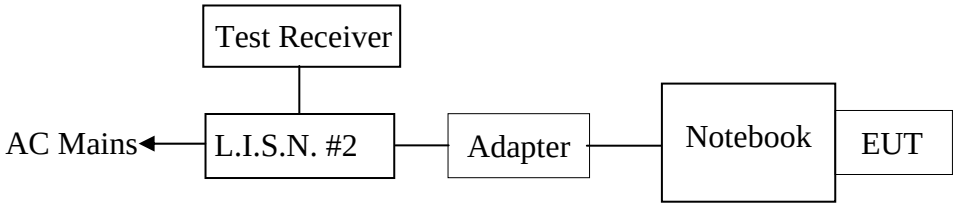
3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	May.08, 09	1 Year
2	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May.08, 09	1 Year
3	Terminator	Hubersuhner	50Ω	No. 1	May.08, 09	1 Year
4	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 09	1Year
5	Coaxial Switch	Anritsu	MP59B	M55367	May.08, 09	1 Year
6	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 09	1 Year

3.2.Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



(EUT: 54Mbps Wireless Mini PCI Adapter)

3.3.Power Line Conducted Emission Test Limits

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

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.4.Configuration of EUT on Test

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

3.4.1. 54Mbps Wireless Mini PCI Adapter (EUT)

Model Number : TL-WN360G
Serial Number : N/A

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

3.5.Operating Condition of EUT

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

3.5.2. Turned on the power of all equipment.

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

3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via Notebook 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). The power line was checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS20) is set at 10kHz.

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

The test result are reported on Section 3.7.,

3.7.Power Line Conducted Emission Test Results

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

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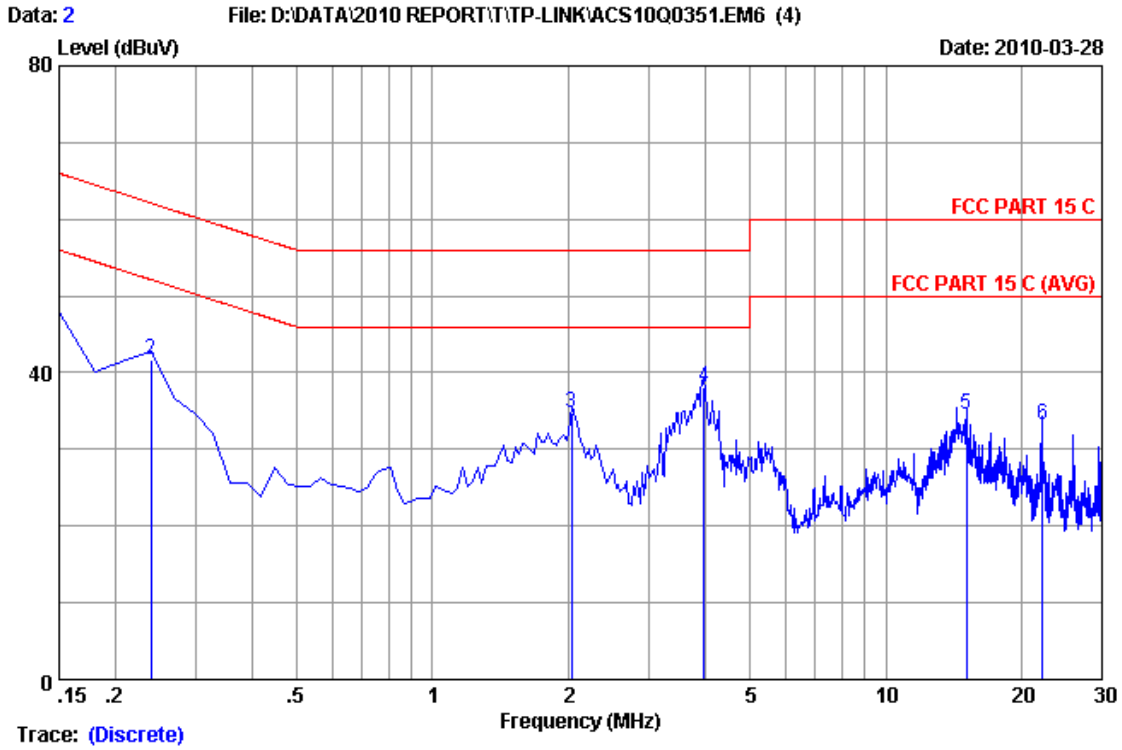

Site no :Audix No.1 Conduction Data no :2
Dis./Ant. :** 2009 KNW407 VA
Limit :FCC PART 15 C
Env./Ins. :Temp:23'C Humi:54% Engineer :Sunny-lu
EUT :54Mbps Wireless Mini PCI Adapter
Power Rating :DC 3.3V From PC input AC 120V/60Hz
Test Mode :Tx Mode
M/N:TL-WN360G

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.47	9.88	36.51	46.86	66.00	19.14	QP
2	0.23955	0.41	9.88	31.46	41.75	62.11	20.36	QP
3	2.031	0.36	9.90	24.43	34.69	56.00	21.31	QP
4	3.971	0.38	9.91	27.93	38.22	56.00	17.78	QP
5	15.045	0.48	9.97	24.05	34.50	60.00	25.50	QP
6	22.179	0.60	10.03	22.63	33.26	60.00	26.74	QP

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

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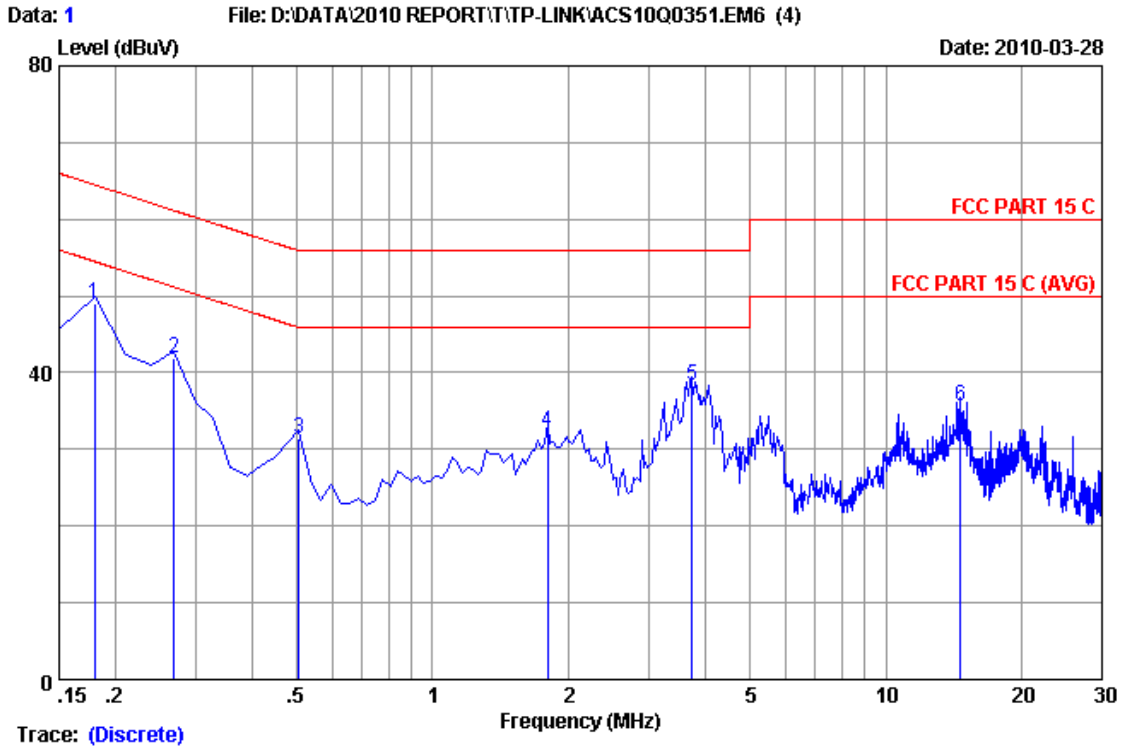


Site no :Audix No.1 Conduction Data no :1
Dis./Ant. :** 2009 KNW407 VB
Limit :FCC PART 15 C
Env./Ins. :Temp:23'C Humi:54% Engineer :Sunny-lu
EUT :54Mbps Wireless Mini PCI Adapter
Power Rating :DC 3.3V From PC input AC 120V/60Hz
Test Mode :Tx Mode
M/N:TL-WN360G

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17985	0.45	9.88	38.65	48.98	64.49	15.51	QP
2	0.26940	0.42	9.88	31.58	41.88	61.14	19.26	QP
3	0.50820	0.35	9.89	21.22	31.46	56.00	24.54	QP
4	1.792	0.36	9.89	22.12	32.37	56.00	23.63	QP
5	3.732	0.37	9.91	28.10	38.38	56.00	17.62	QP
6	14.627	0.48	9.97	25.30	35.75	60.00	24.25	QP

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

4. RADIATED EMISSION TEST

4.1.Test Equipment

Frequency rang: 30~1000MHz

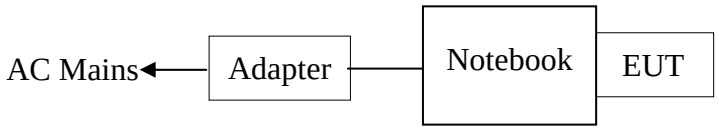
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.05,09	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 09	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 09	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 09	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Dec.14, 09	1 Year
6	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 09	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 09	1 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3	Horn Antenna	EMCO	3116	00060089	Dec.03, 09	1.5 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 09	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Nov.28, 09	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	29091/2	Nov.28, 09	1 Year
7	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May.08, 09	1Year

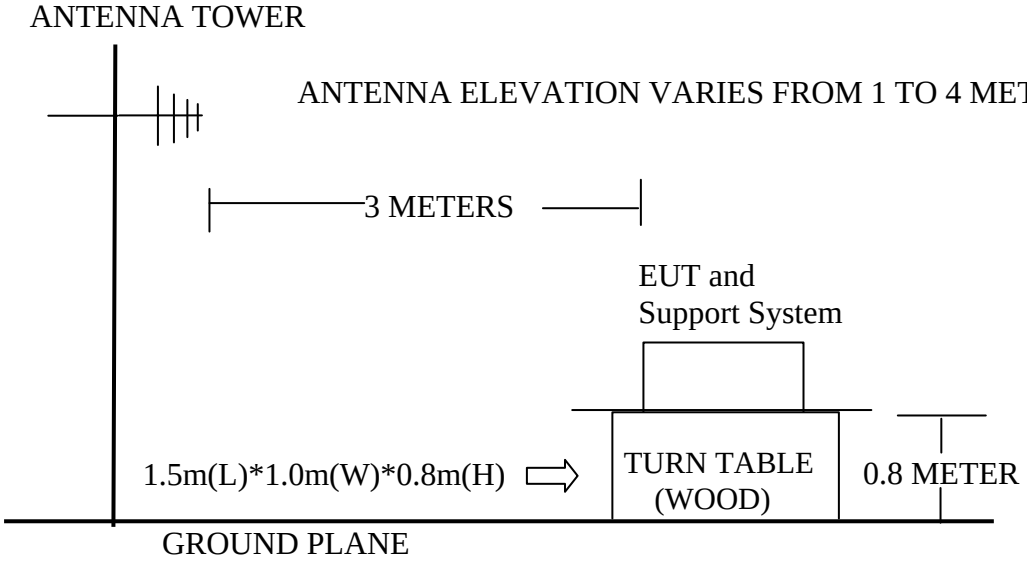
4.2.Block Diagram of Test Setup

4.2.1. Block diagram of connection between the EUT and simulators



(EUT: 54Mbps Wireless Mini PCI Adapter)

4.2.2. In Anechoic Chamber



4.3.Radiated Emission Limit

4.3.1. 15.209 limits

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

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

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

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

(4) For frequency from 30MHz to 1GHz, limits shown in the above table are based on measurements employing a CISPR quasi-peak detector

4.3.2. 15.205 Restricted bands of operation

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

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

4.4.EUT Configuration on Test

The 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. 54Mbps Wireless Mini PCI Adapter (EUT)

Model Number : TL-WN360G
Serial Number : N/A

4.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.3.

4.5.Operating Condition of EUT

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

4.5.2. Turned on the power of all equipment.

4.5.3. Notebook run test software to control EUT work in test mode.

4.6.Test Procedure

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

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

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

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

4.7. Radiated Emission Test Results

PASS.

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

Frequency: 30MHz~1GHz

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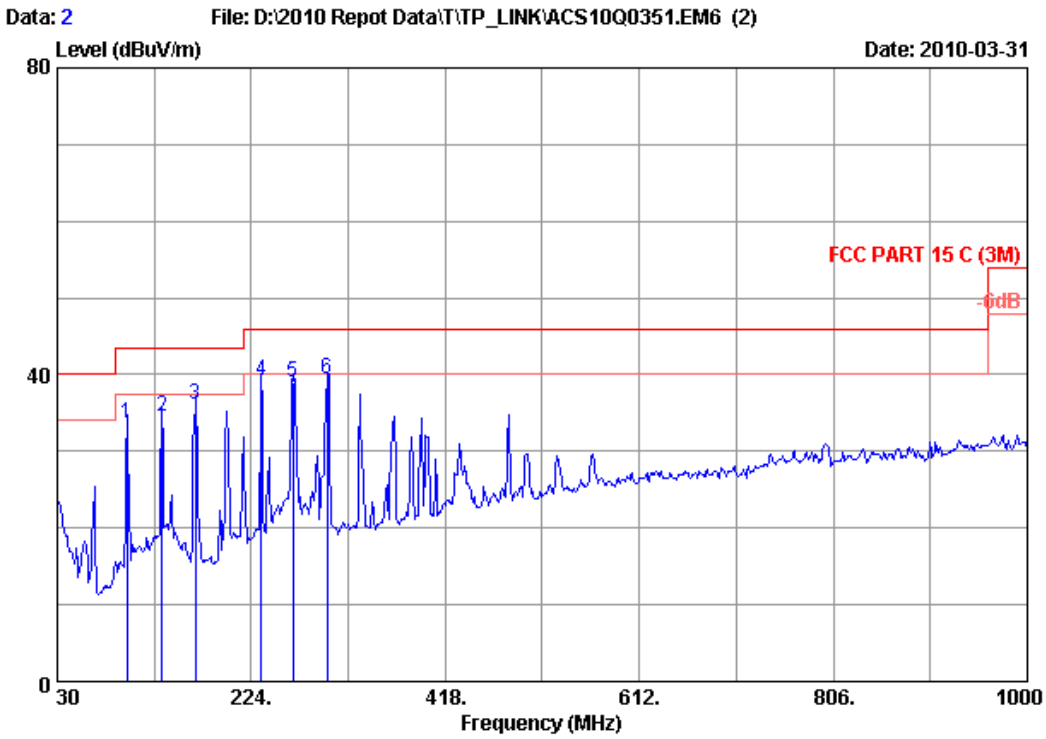

Site no. : 3m chamber Data no. : 2
Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power Rating : DC 3.3V From PC Input AC 120V/60Hz
Test Mode : Tx Mode
TL-WN360G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	99.840	10.40	0.90	22.35	33.65	43.50	9.85	QP
2	134.760	12.10	1.03	21.52	34.65	43.50	8.85	QP
3	167.740	10.40	1.16	24.58	36.14	43.50	7.36	QP
4	233.700	11.24	1.53	26.35	39.12	46.00	6.88	QP
5	265.710	13.70	1.67	23.64	39.01	46.00	6.99	QP
6	299.660	13.70	1.73	23.97	39.40	46.00	6.60	QP

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

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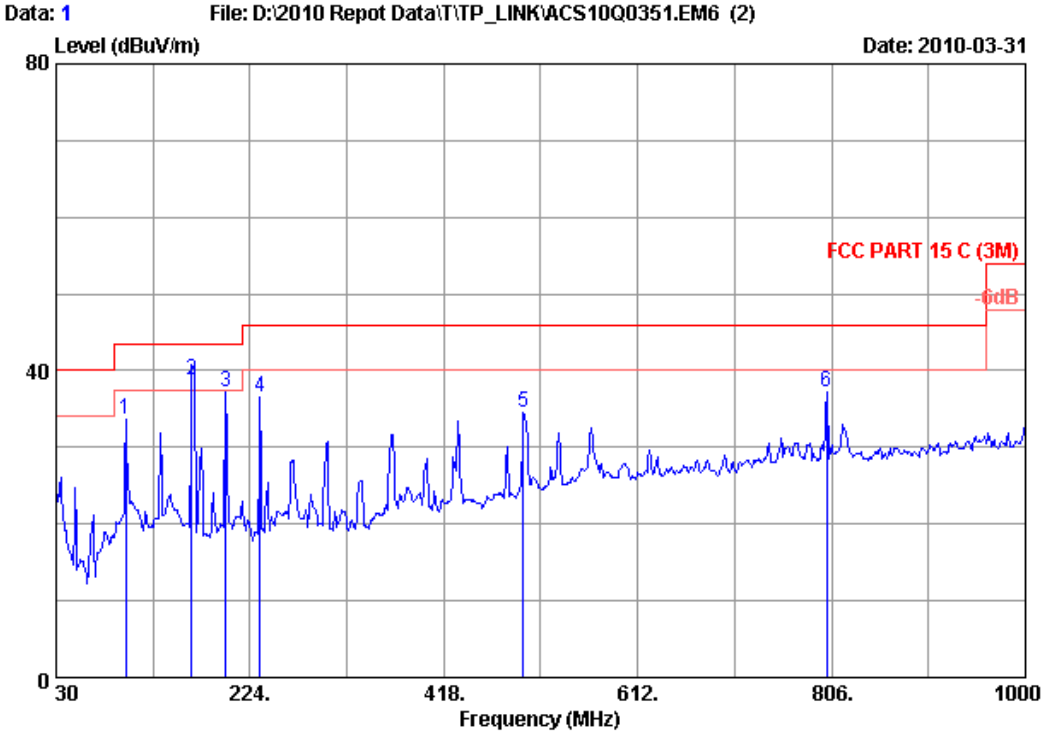

Site no. : 3m chamber Data no. : 1
Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power Rating : DC 3.3V From PC Input AC 120V/60Hz
Test Mode : Tx Mode
TL-WN360G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	99.840	10.40	0.90	22.28	33.58	43.50	9.92	QP
2	165.800	10.60	1.16	26.99	38.75	43.50	4.75	QP
3	199.750	10.00	1.30	25.97	37.27	43.50	6.23	QP
4	233.700	11.24	1.53	23.87	36.64	46.00	9.36	QP
5	497.540	18.27	2.24	14.06	34.57	46.00	11.43	QP
6	801.150	22.00	3.05	12.08	37.13	46.00	8.87	QP

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

Frequency: 1GHz~18GHz

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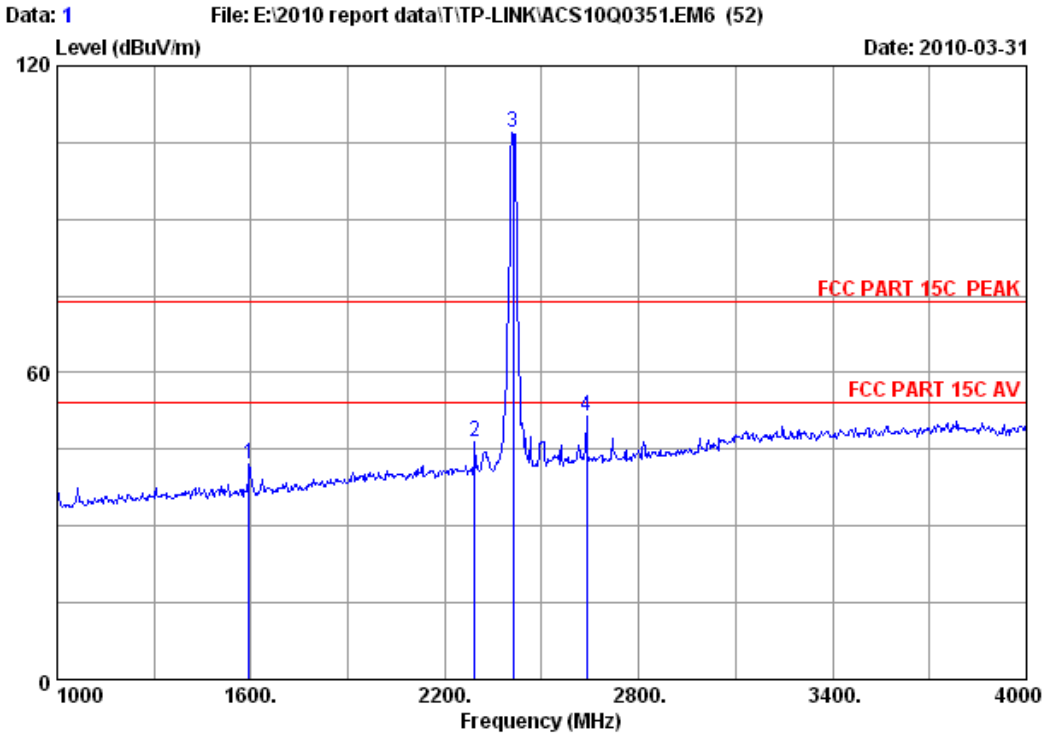

Site no.	: 3m Chamber		Data no.	: 1
Dis. / Ant.	: 3m 3115(0911)		Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK			
Env. / Ins.	: 23*C/54%		Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter			
Power	: DC 3.3V From PC input AC 120V/60Hz			
Test mode	: IEEE802.11b CH1 2412MHz		Tx	
M/N	: TL-WN360G			

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1594.000	26.96	6.92	36.43	44.74	42.19	74.00	31.81	Peak
2	2293.000	29.38	8.47	35.92	44.37	46.30	74.00	27.70	Peak
3	2412.000	29.45	8.72	35.95	104.65	106.87	74.00	-32.87	Peak
4	2638.000	30.17	9.17	35.91	48.12	51.55	74.00	22.45	Peak

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

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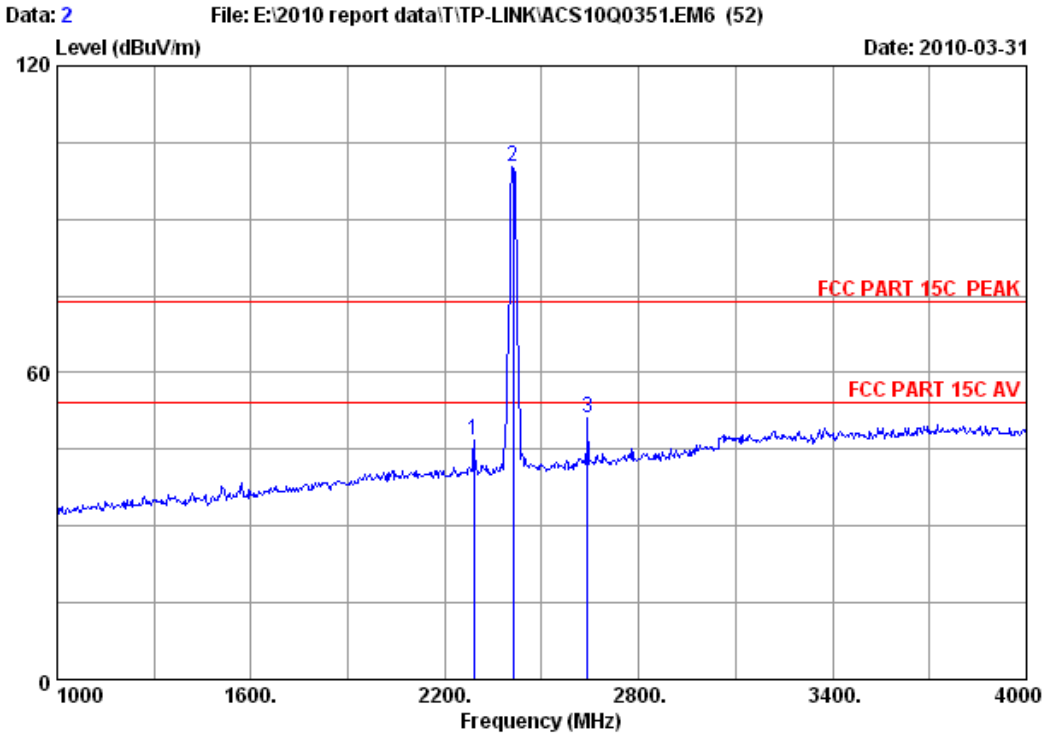

Site no.	: 3m Chamber		Data no.	: 2
Dis. / Ant.	: 3m 3115(0911)		Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK			
Env. / Ins.	: 23*C/54%		Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter			
Power	: DC 3.3V From PC input AC 120V/60Hz			
Test mode	: IEEE802.11b CH1 2412MHz		Tx	
M/N	: TL-WN360G			

	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	2290.000	29.38	8.47	35.92	44.76	46.69	74.00	27.31	Peak
2	2412.000	29.45	8.72	35.95	97.92	100.14	74.00	-26.14	Peak
3	2641.000	30.25	9.17	35.77	47.42	51.07	74.00	22.93	Peak

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

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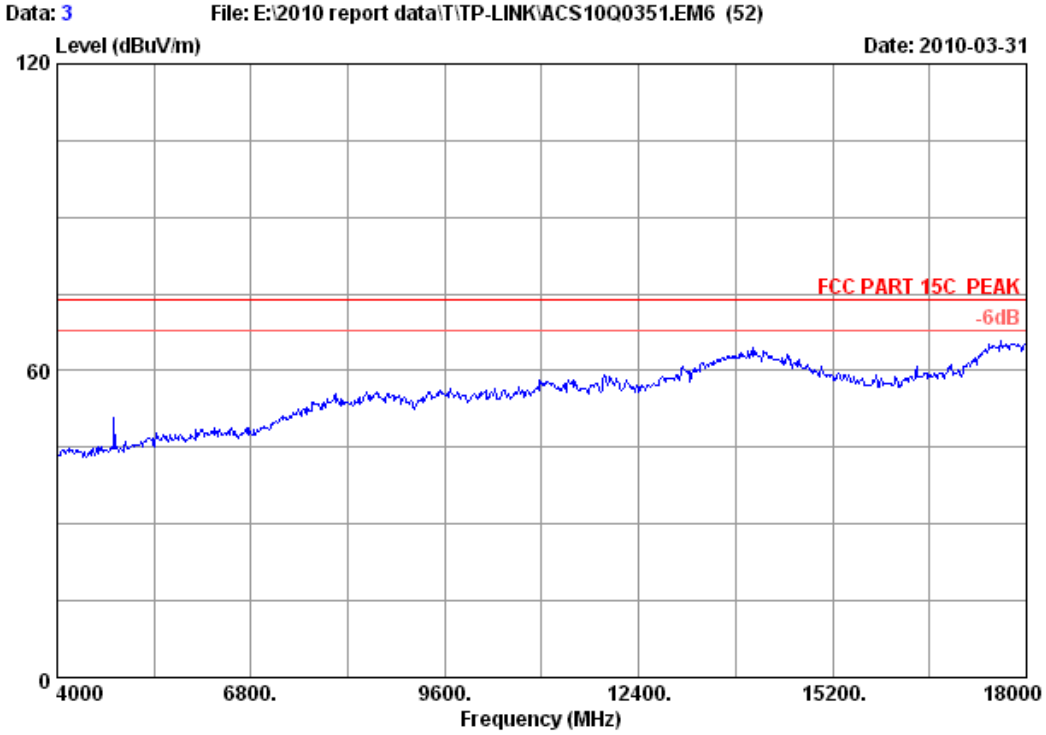

Site no.	: 3m Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11b CH1 2412MHz	Tx	
M/N	: TL-WN360G		

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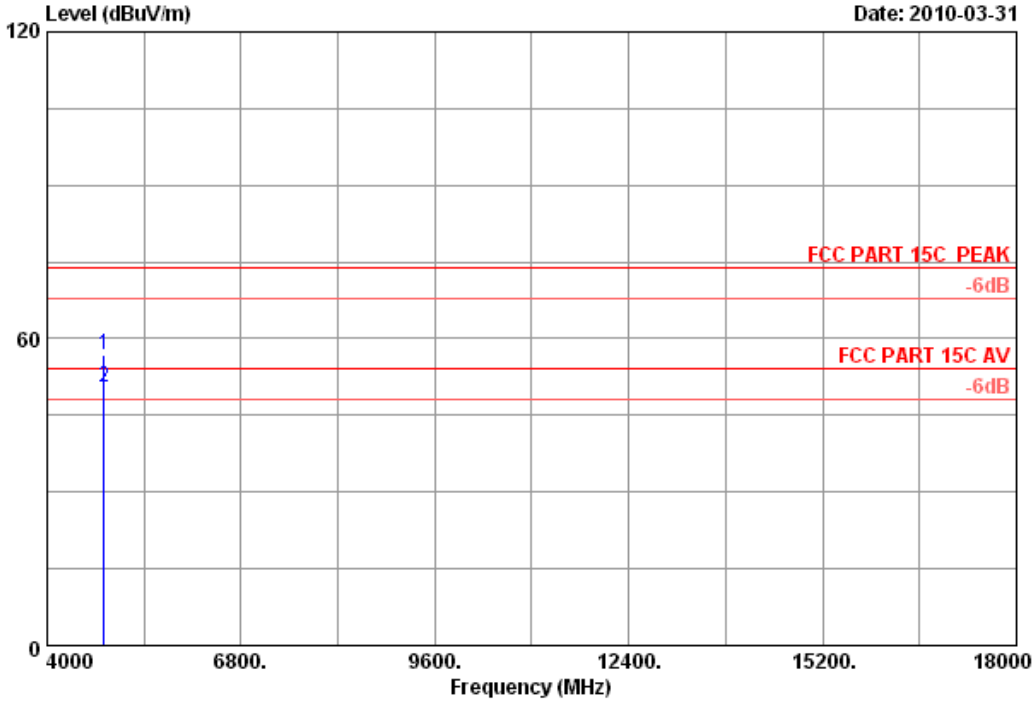

Site no.	: 3m Chamber		Data no.	: 4
Dis. / Ant.	: 3m 3115(0911)		Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK			
Env. / Ins.	: 23*C/54%		Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter			
Power	: DC 3.3V From PC input AC 120V/60Hz			
Test mode	: IEEE802.11b CH1 2412MHz		Tx	
M/N	: TL-WN360G			

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.32	12.38	35.25	45.49	56.94	74.00	17.06	Peak
2	4824.000	34.32	12.38	35.25	38.94	50.39	54.00	3.61	Average

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

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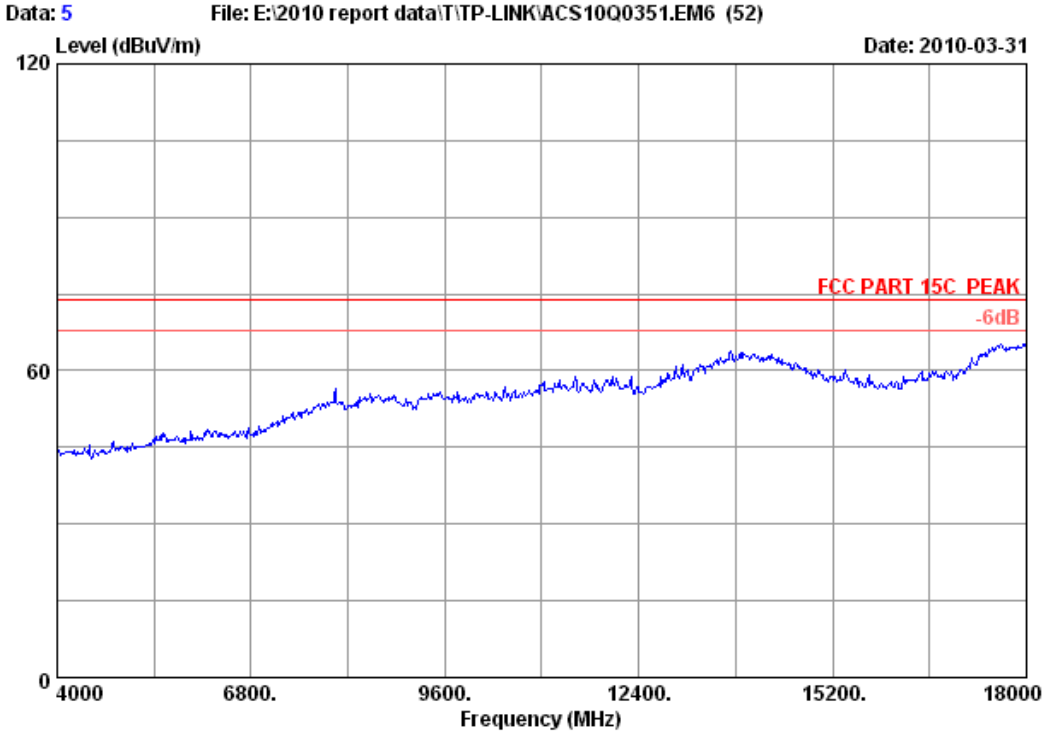

Site no.	: 3m Chamber	Data no.	: 5
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11b CH1 2412MHz	Tx	
M/N	: TL-WN360G		

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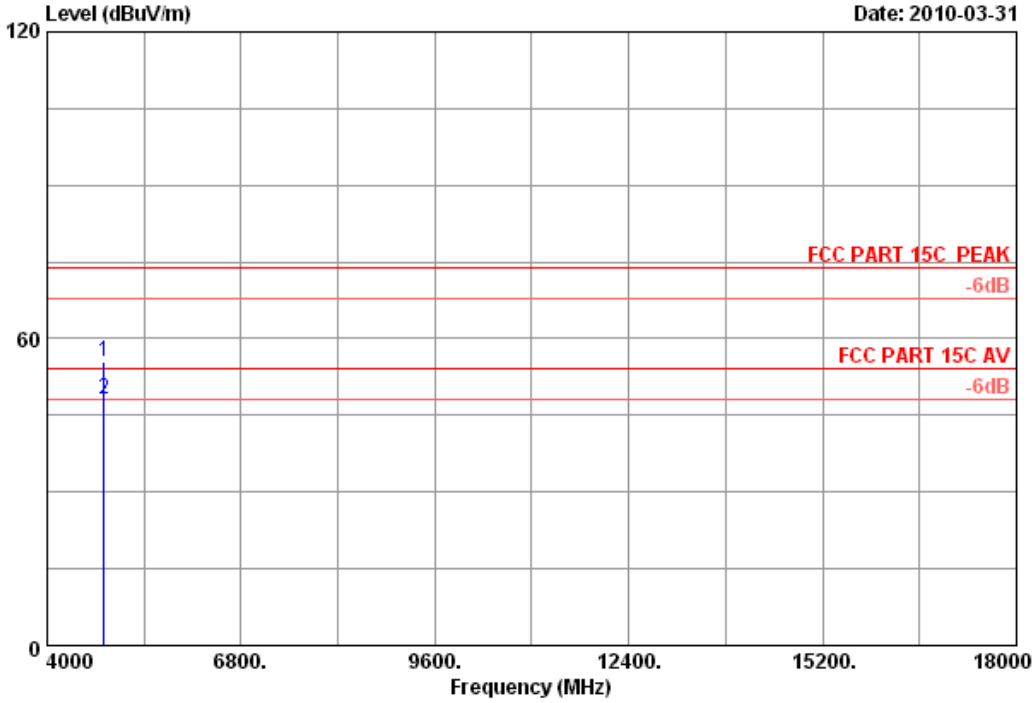
Data: 6 File: E:\2010 report data\T\TP-LINK\ACS10Q0351.EM6 (52)



Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.32	12.38	35.25	43.89	55.34	74.00	18.66	Peak
2	4824.000	34.32	12.38	35.25	36.85	48.30	54.00	5.70	Average

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

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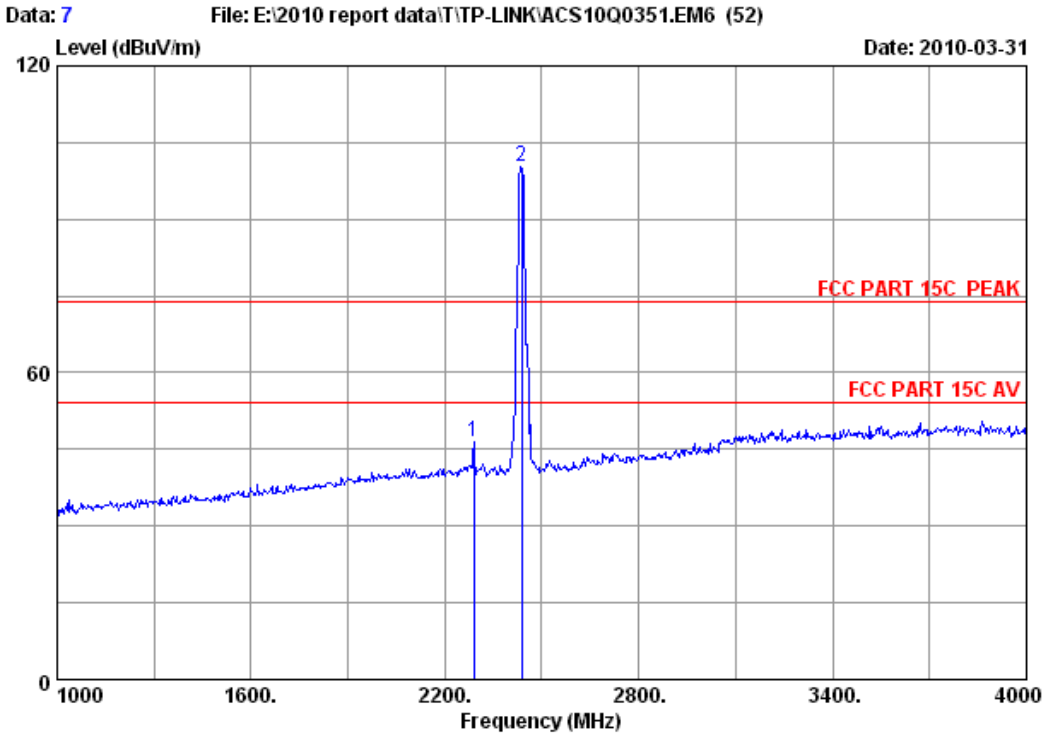

Site no.	: 3m Chamber	Data no.	: 7
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11b CH6 2437MHz	Tx	
M/N	: TL-WN360G		

	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	2290.000	29.38	8.47	35.92	44.55	46.48	74.00	27.52	Peak
2	2437.000	29.47	8.77	36.06	97.94	100.12	74.00	-26.12	Peak

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

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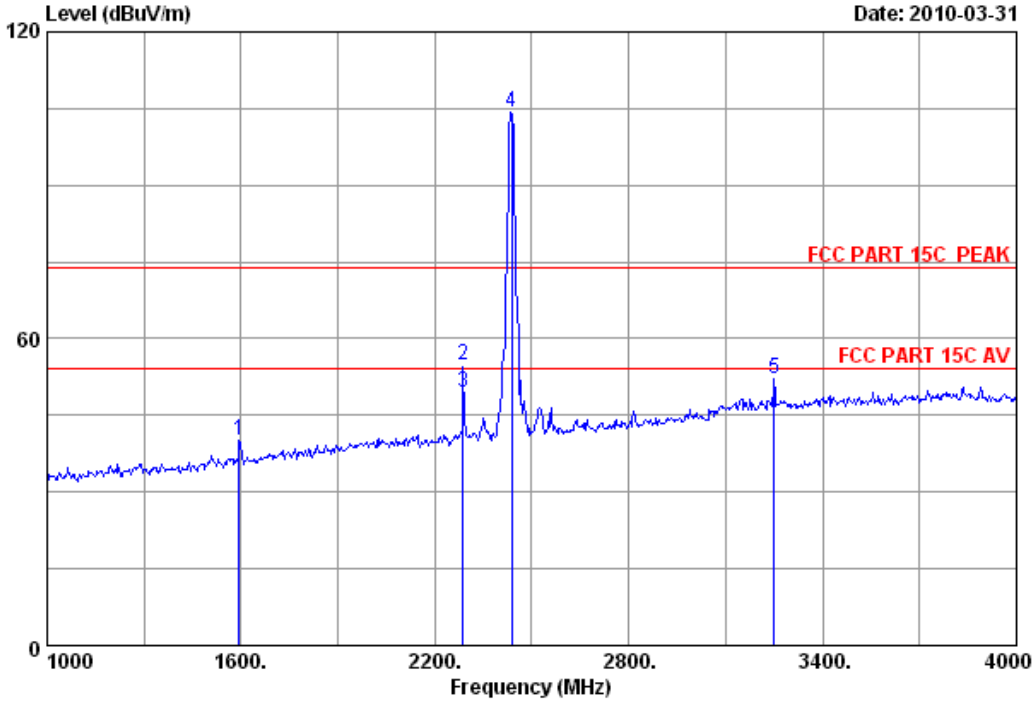

Site no.	: 3m Chamber	Data no.	: 8
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11b CH6 2437MHz Tx		
M/N	: TL-WN360G		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1594.000	26.96	6.92	36.43	42.69	40.14	74.00	33.86	Peak
2	2288.000	29.38	8.47	35.92	52.96	54.89	74.00	19.11	Peak
3	2288.000	29.38	8.47	35.92	47.53	49.46	54.00	4.54	Average
4	2437.000	29.47	8.77	36.06	102.12	104.30	74.00	-30.30	Peak
5	3250.000	32.63	10.28	35.68	44.87	52.10	74.00	21.90	Peak

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

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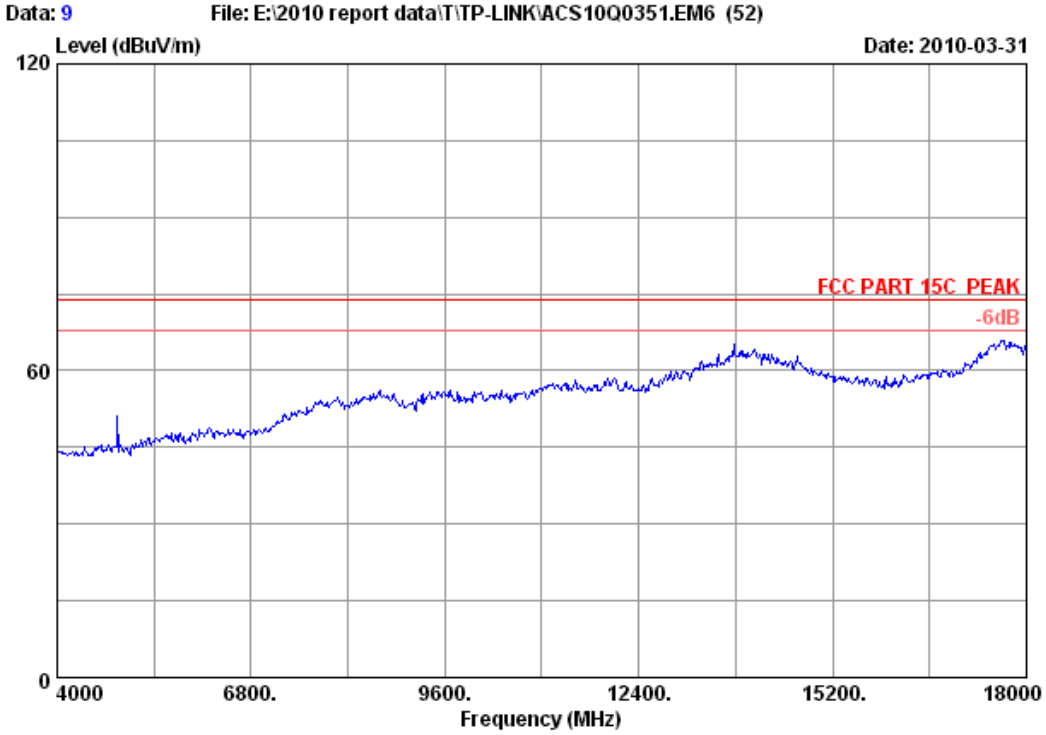

Site no.	: 3m Chamber	Data no.	: 9
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11b CH6 2437MHz	Tx	
M/N	: TL-WN360G		

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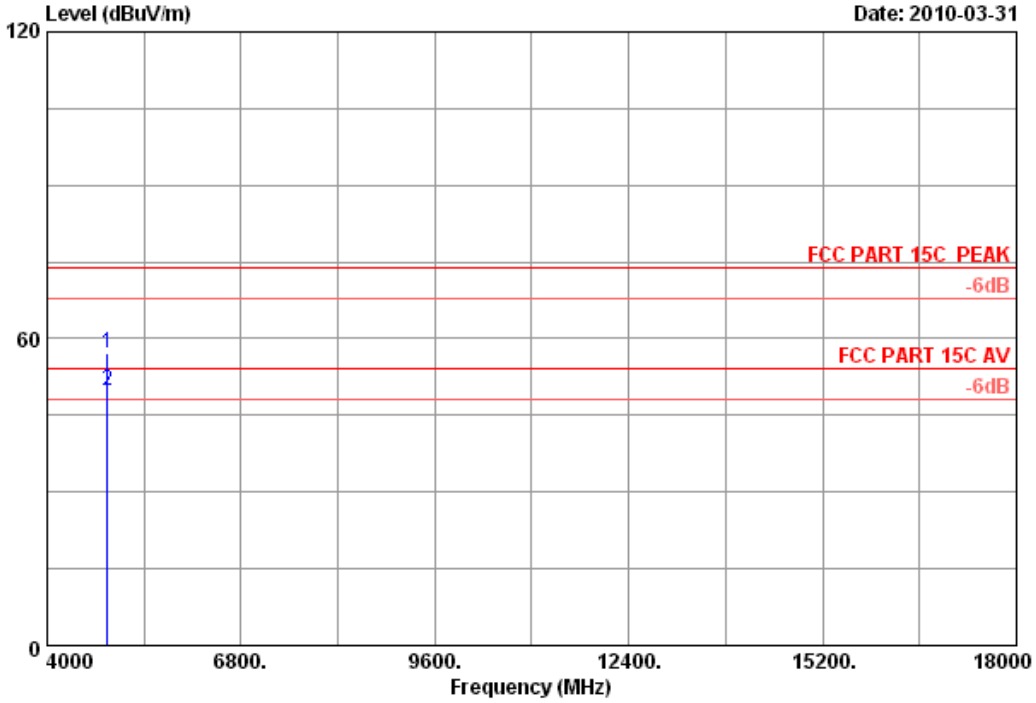

Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	12.44	35.36	45.63	57.12	74.00	16.88	Peak
2	4874.000	34.41	12.44	35.36	38.24	49.73	54.00	4.27	Average

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

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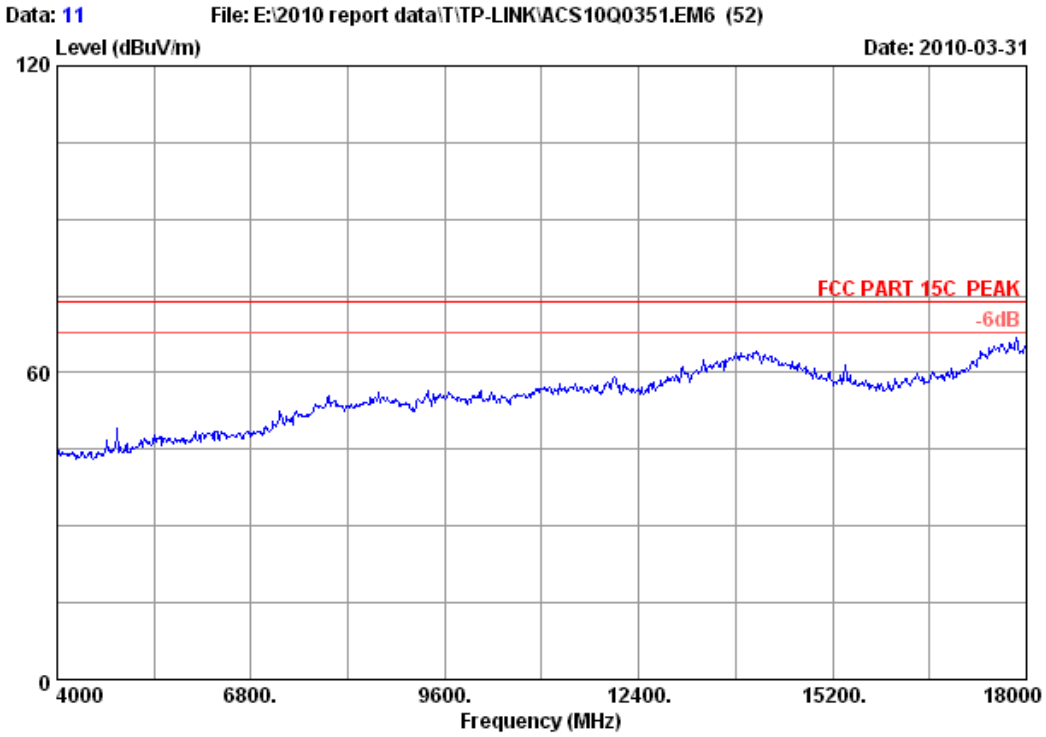

Site no.	: 3m Chamber	Data no.	: 11
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11b CH6 2437MHz	Tx	
M/N	: TL-WN360G		

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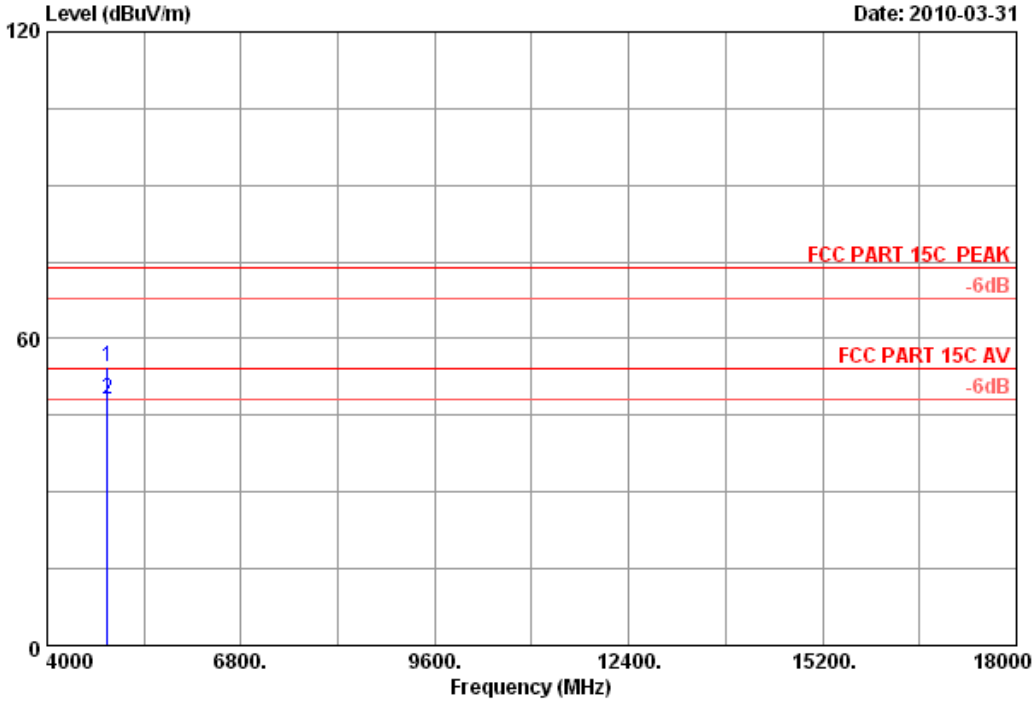
Data: 12 File: E:\2010 report data\T\TP-LINK\ACS10Q0351.EM6 (52)



Site no.	: 3m Chamber	Data no.	: 12	
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL	
Limit	: FCC PART 15C PEAK			
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu	
EUT	: 54Mbps Wireless Mini PCI Adapter			
Power	: DC 3.3V From PC input AC 120V/60Hz			
Test mode	: IEEE802.11b CH6 2437MHz	Tx		
M/N	: TL-WN360G			

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	12.44	35.36	42.95	54.44	74.00	19.56	Peak
2	4874.000	34.41	12.44	35.36	36.57	48.06	54.00	5.94	Average

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

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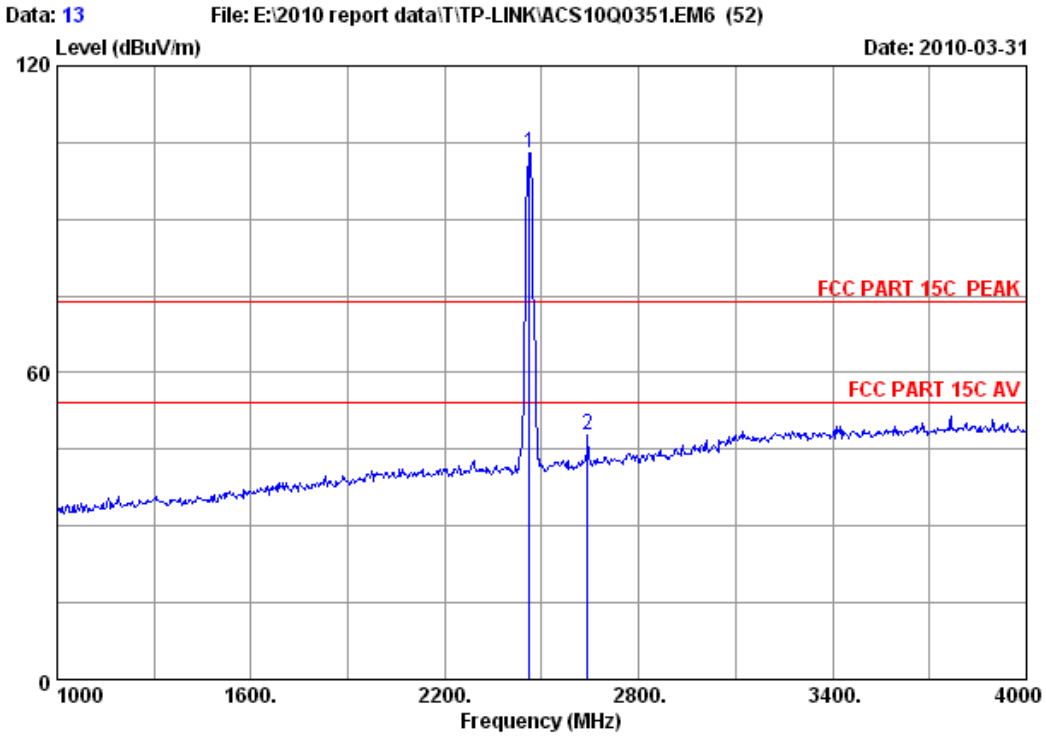

Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	29.48	8.82	36.02	100.79	103.07	74.00	-29.07	Peak
2	2641.000	30.25	9.17	35.77	44.01	47.66	74.00	26.34	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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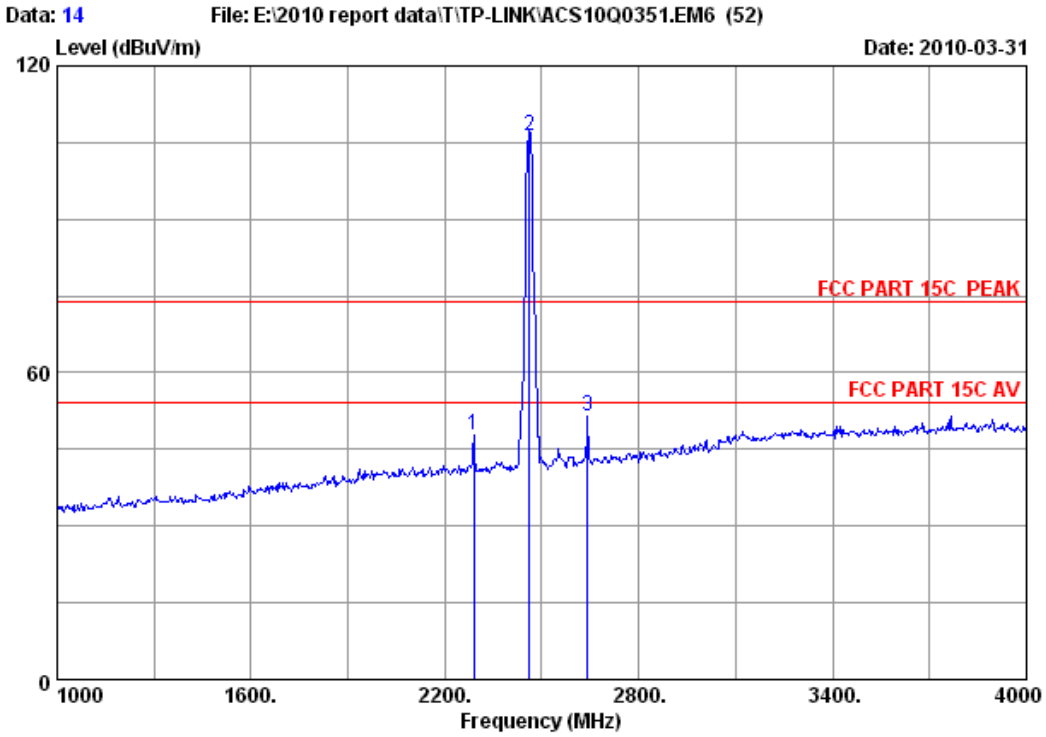

Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : TL-WN360G

	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	2290.000	29.38	8.47	35.92	45.73	47.66	74.00	26.34	Peak
2	2461.000	29.48	8.82	36.02	103.89	106.17	74.00	-32.17	Peak
3	2641.000	30.25	9.17	35.77	47.91	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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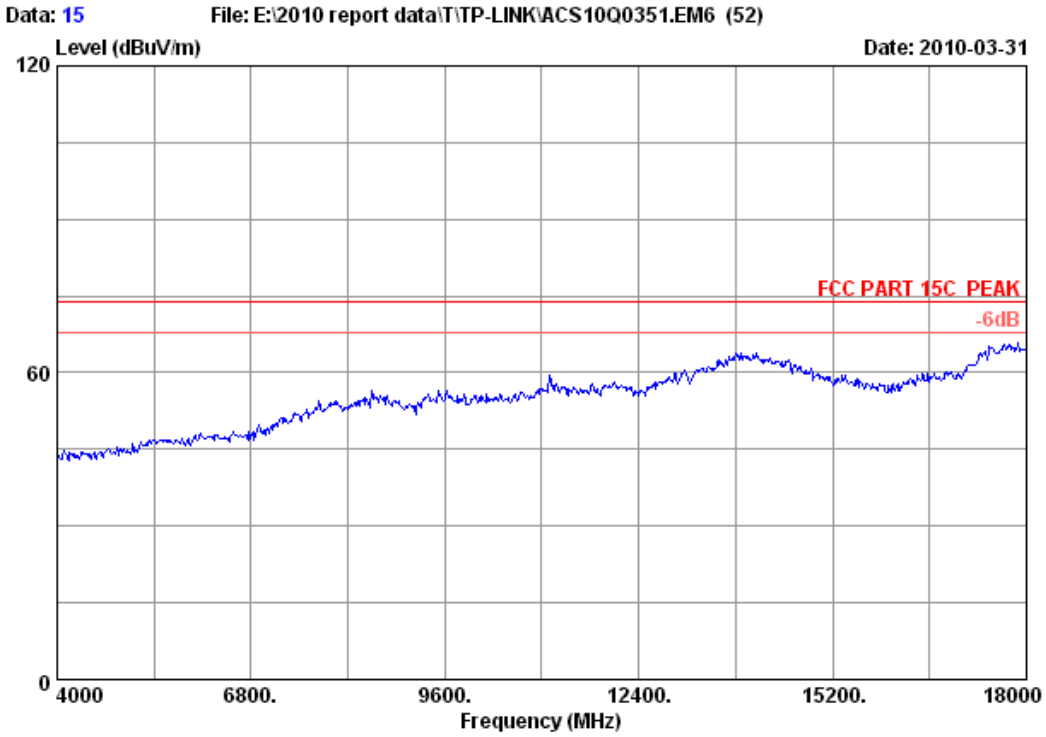

Site no.	: 3m Chamber	Data no.	: 15
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11b CH11 2462MHz Tx		
M/N	: TL-WN360G		

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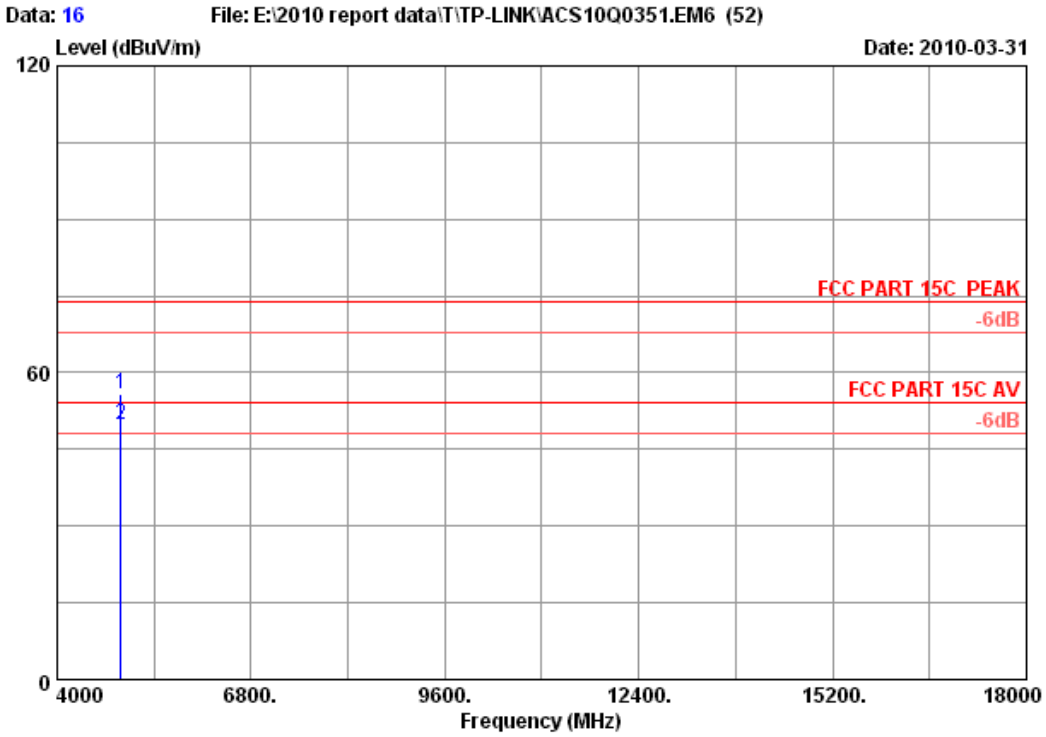

Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	34.49	12.50	35.34	44.14	55.79	74.00	18.21	Peak
2	4924.000	34.49	12.50	35.34	38.12	49.77	54.00	4.23	Average

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

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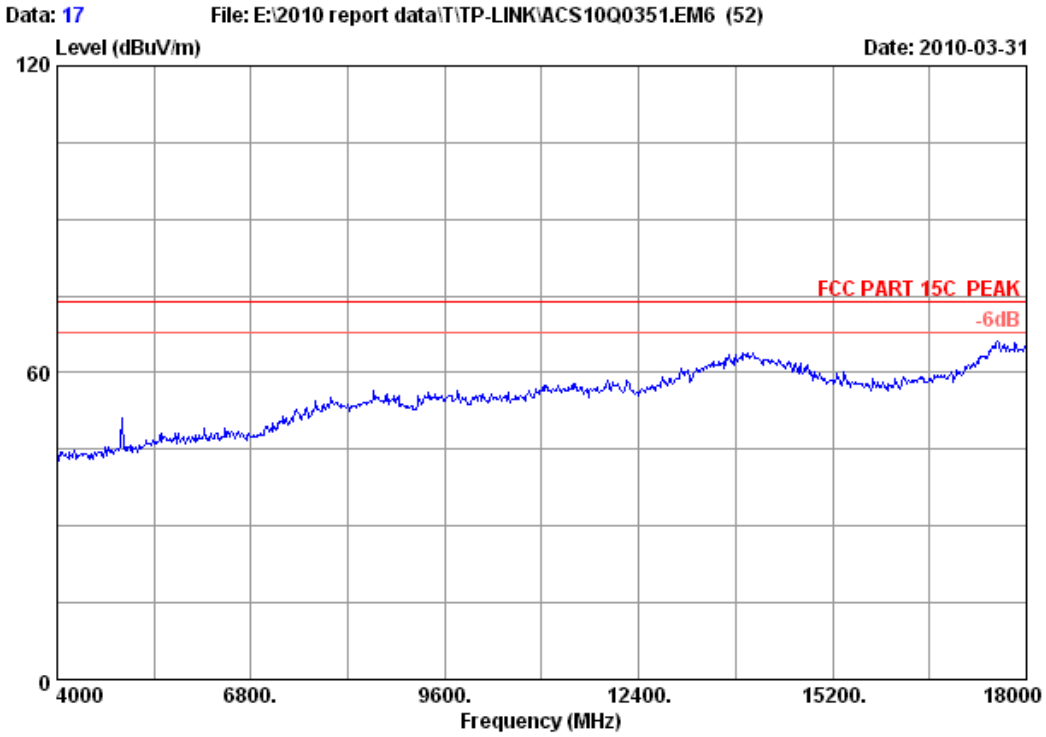

Site no.	: 3m Chamber	Data no.	: 17
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11b CH11 2462MHz Tx		
M/N	: TL-WN360G		

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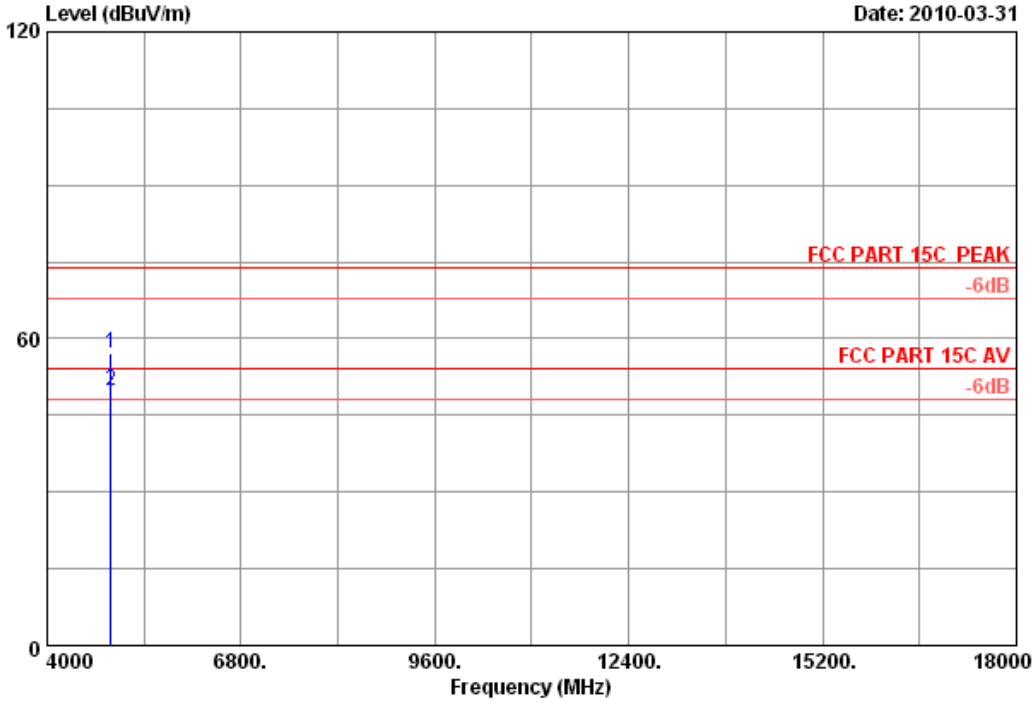
Data: 18 File: E:\2010 report data\T\TP-LINK\ACS10Q0351.EM6 (52)



Site no.	: 3m Chamber		Data no.	: 18
Dis. / Ant.	: 3m 3115(0911)		Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK			
Env. / Ins.	: 23*C/54%		Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter			
Power	: DC 3.3V From PC input AC 120V/60Hz			
Test mode	: IEEE802.11b CH11 2462MHz Tx			
M/N	: TL-WN360G			

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	34.49	12.50	35.34	45.47	57.12	74.00	16.88	Peak
2	4924.000	34.49	12.50	35.34	38.31	49.96	54.00	4.04	Average

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

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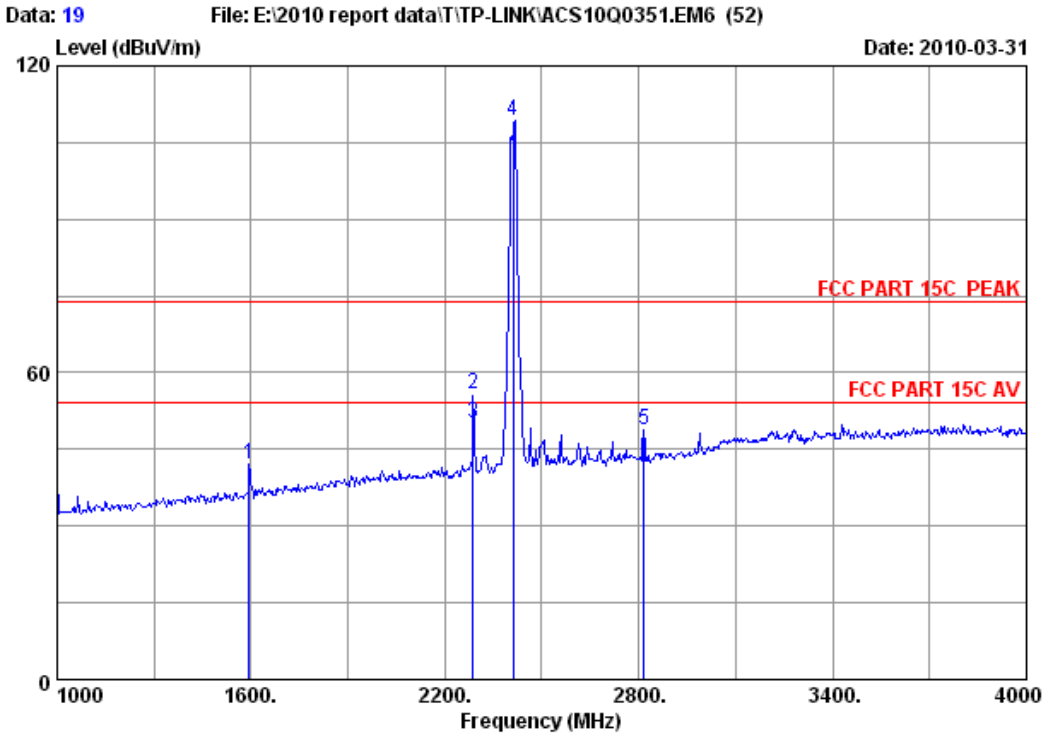

Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1594.000	26.96	6.92	36.43	44.60	42.05	74.00	31.95	Peak
2	2288.000	29.38	8.47	35.92	53.94	55.87	74.00	18.13	Peak
3	2288.000	29.38	8.47	35.92	48.23	50.16	54.00	3.84	Average
4	2412.000	29.45	8.72	35.95	106.95	109.17	74.00	-35.17	Peak
5	2815.000	31.08	9.51	36.06	44.24	48.77	74.00	25.23	Peak

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

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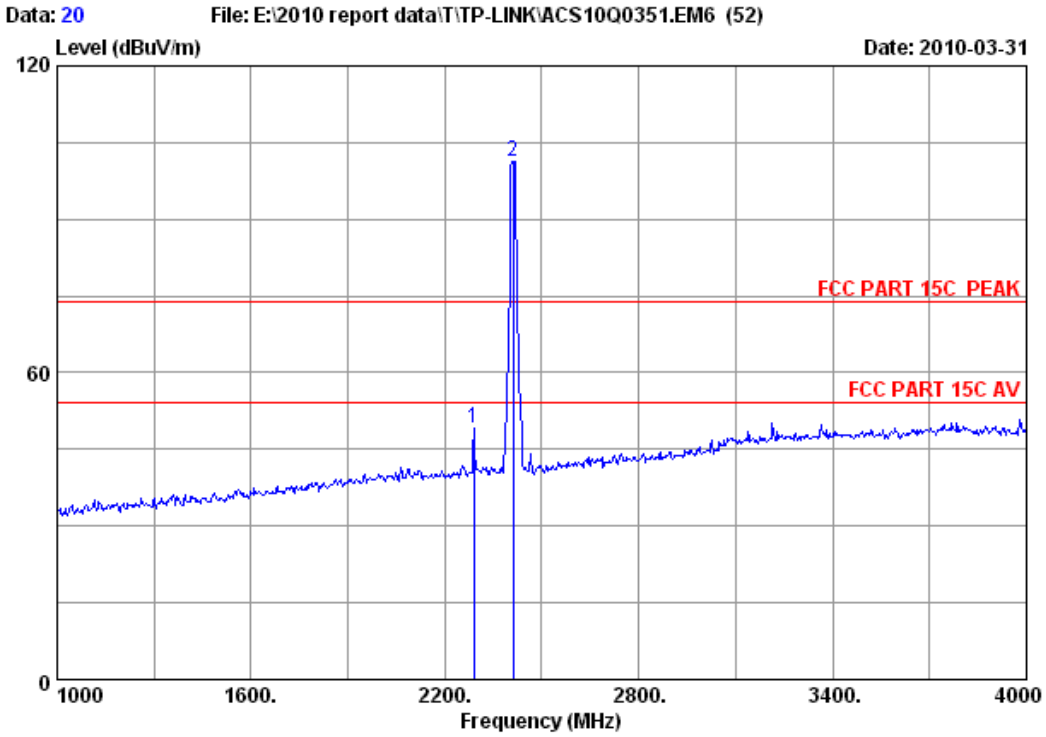

Site no.	: 3m Chamber	Data no.	: 20	
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL	
Limit	: FCC PART 15C PEAK			
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu	
EUT	: 54Mbps Wireless Mini PCI Adapter			
Power	: DC 3.3V From PC input AC 120V/60Hz			
Test mode	: IEEE802.11g CH1 2412MHz	Tx		
M/N	: TL-WN360G			

	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	2290.000	29.38	8.47	35.92	47.05	48.98	74.00	25.02	Peak
2	2412.000	29.45	8.72	35.95	99.14	101.36	74.00	-27.36	Peak

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

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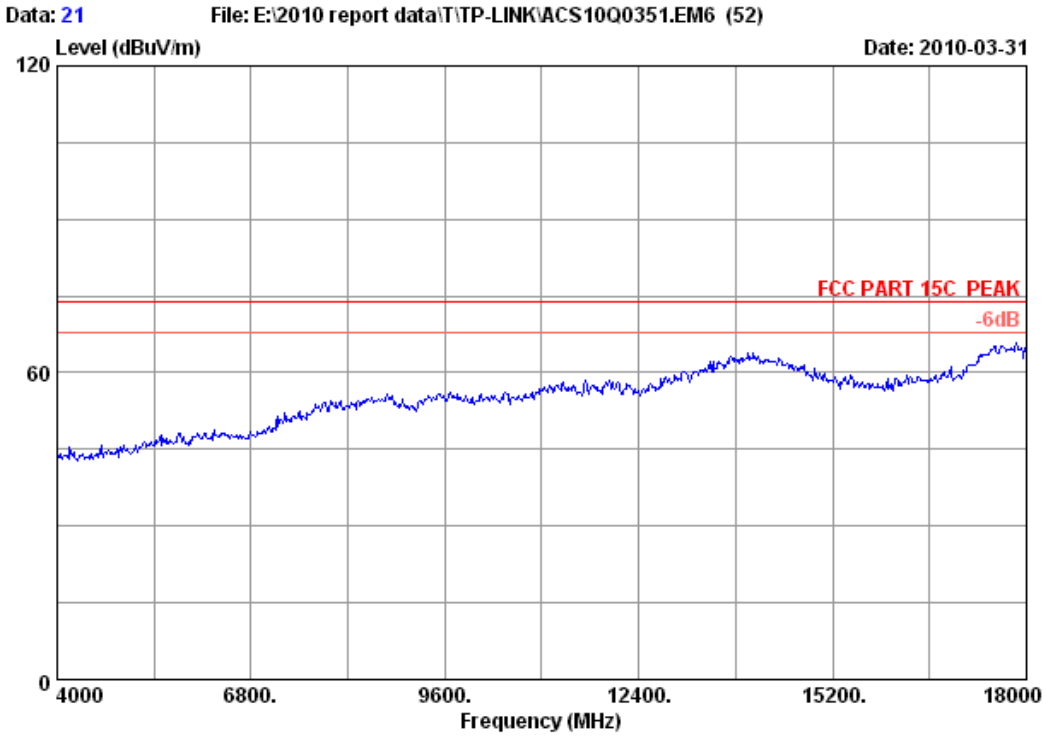

Site no.	: 3m Chamber	Data no.	: 21
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11g CH1 2412MHz	Tx	
M/N	: TL-WN360G		

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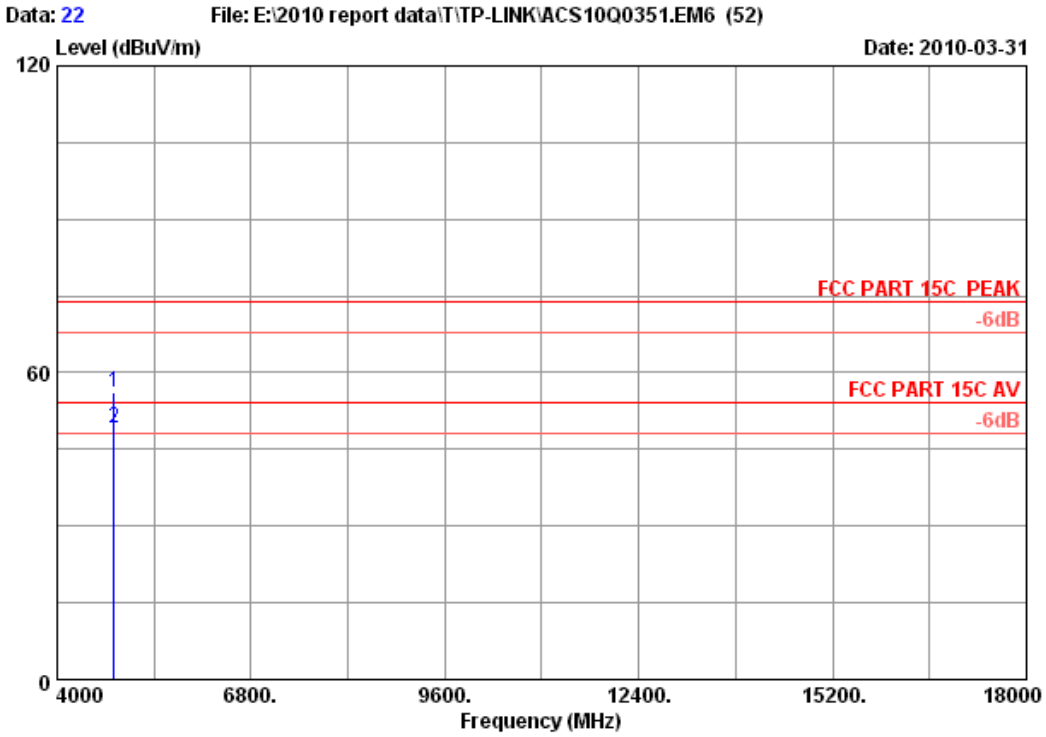

Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.32	12.38	35.25	44.70	56.15	74.00	17.85	Peak
2	4824.000	34.32	12.38	35.25	37.58	49.03	54.00	4.97	Average

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

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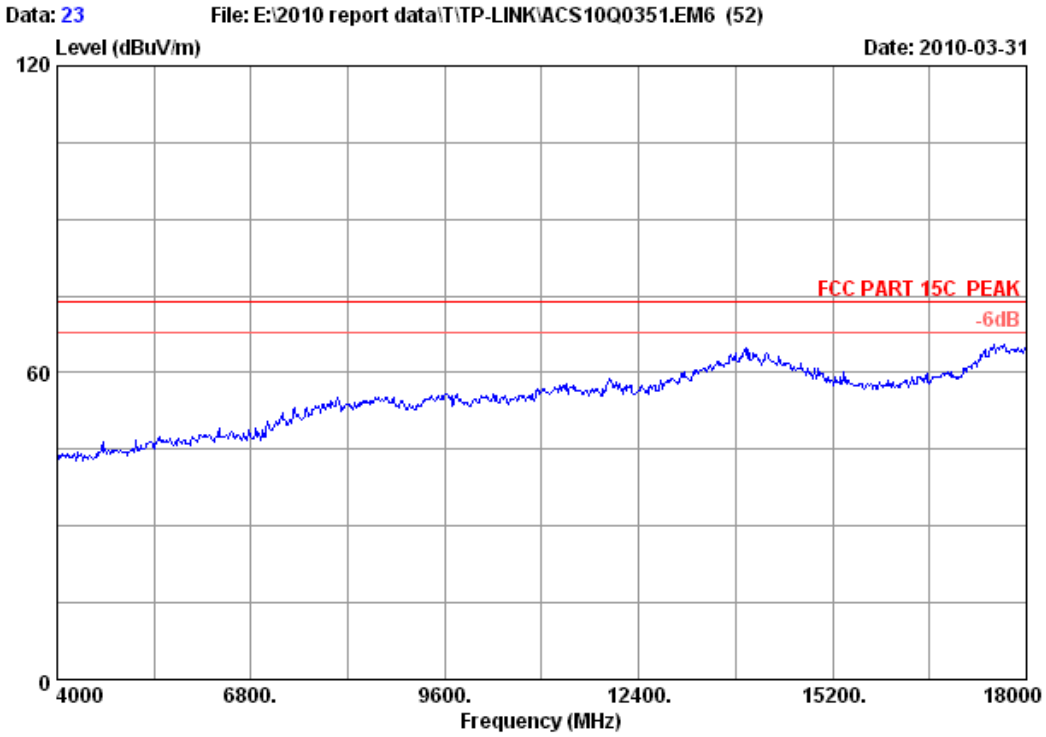

Site no.	: 3m Chamber	Data no.	: 23
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11g CH1 2412MHz	Tx	
M/N	: TL-WN360G		

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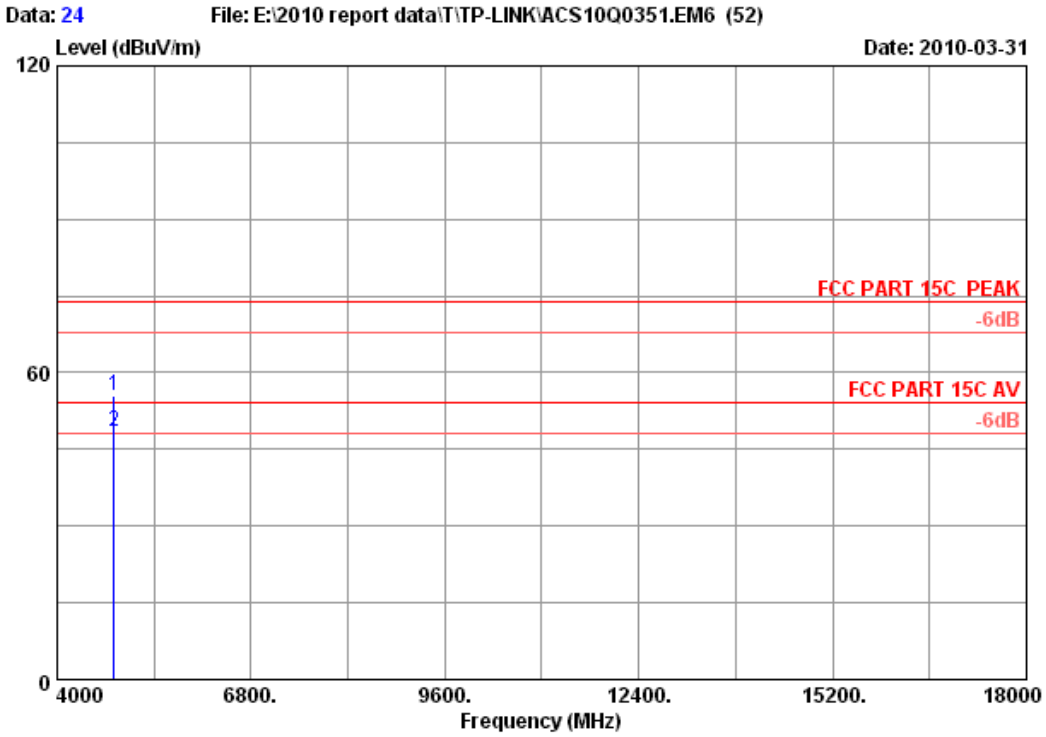

Site no. : 3m Chamber Data no. : 24
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.32	12.38	35.25	43.90	55.35	74.00	18.65	Peak
2	4824.000	34.32	12.38	35.25	37.02	48.47	54.00	5.53	Average

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

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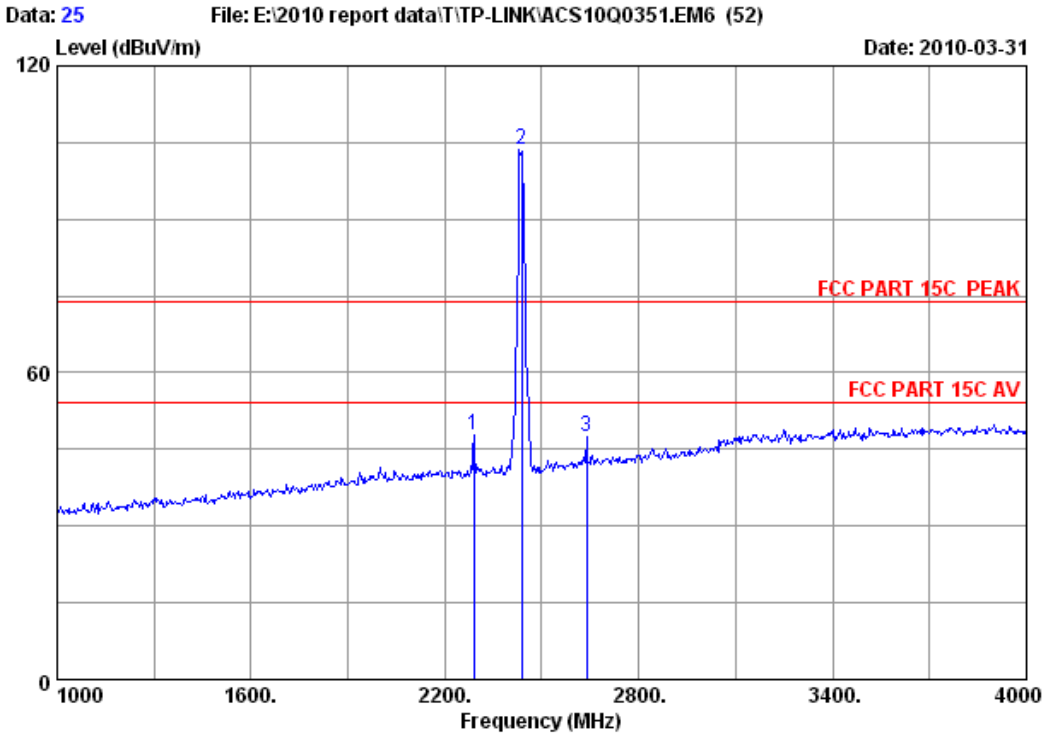

Site no.	: 3m Chamber	Data no.	: 25
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11g CH6 2437MHz Tx		
M/N	: TL-WN360G		

	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	2290.000	29.38	8.47	35.92	45.76	47.69	74.00	26.31	Peak
2	2437.000	29.47	8.77	36.06	101.47	103.65	74.00	-29.65	Peak
3	2638.000	30.17	9.17	35.91	44.18	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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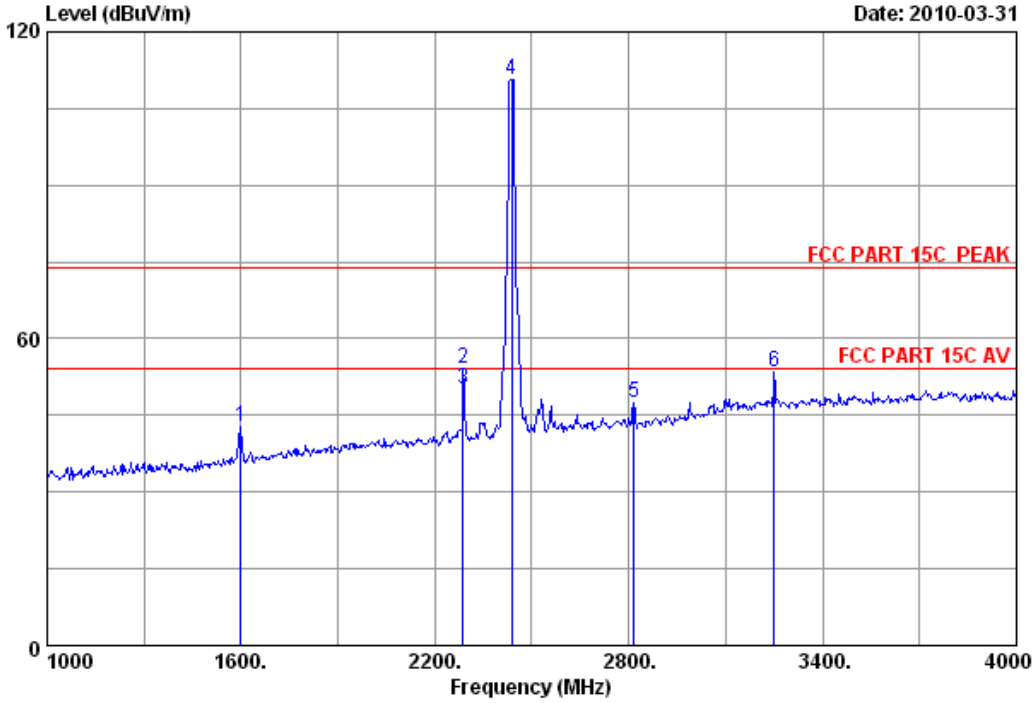

Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : TL-WN360G

	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	1600.000	26.96	6.98	36.43	45.18	42.69	74.00	31.31	Peak
2	2288.000	29.38	8.47	35.92	52.30	54.23	74.00	19.77	Peak
3	2288.000	29.38	8.47	35.92	48.22	50.15	54.00	3.85	Average
4	2437.000	29.47	8.77	36.06	108.57	110.75	74.00	-36.75	Peak
5	2815.000	31.08	9.51	36.06	42.87	47.40	74.00	26.60	Peak
6	3250.000	32.63	10.28	35.68	46.41	53.64	74.00	20.36	Peak

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

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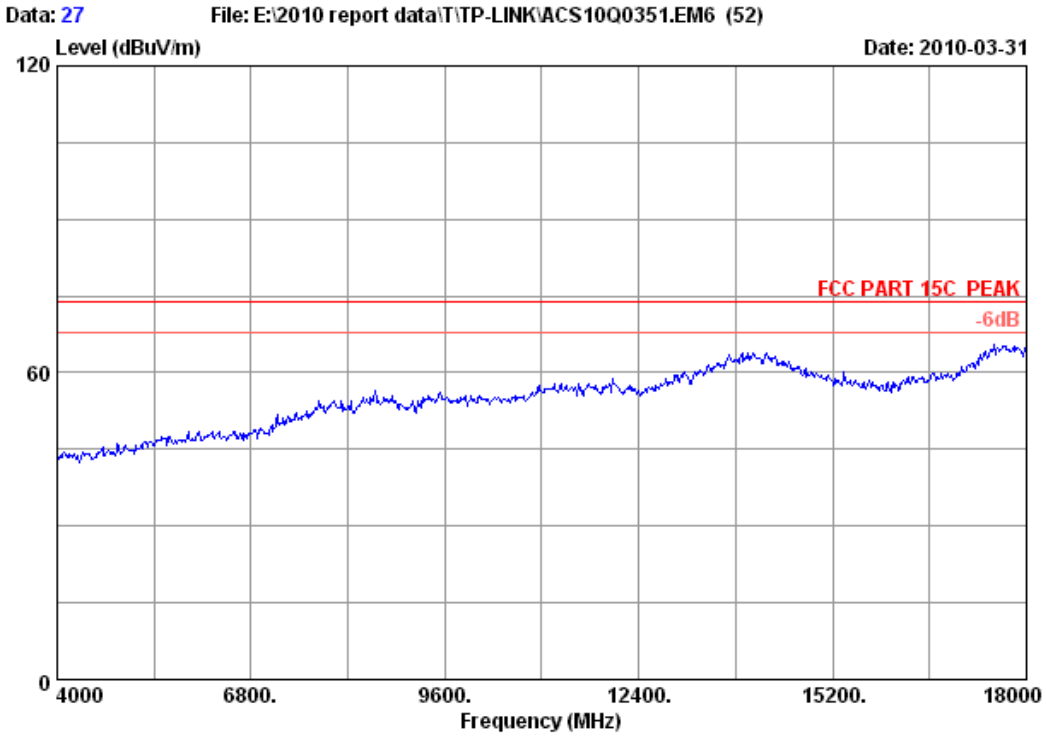

Site no.	: 3m Chamber	Data no.	: 27
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11g CH6 2437MHz	Tx	
M/N	: TL-WN360G		

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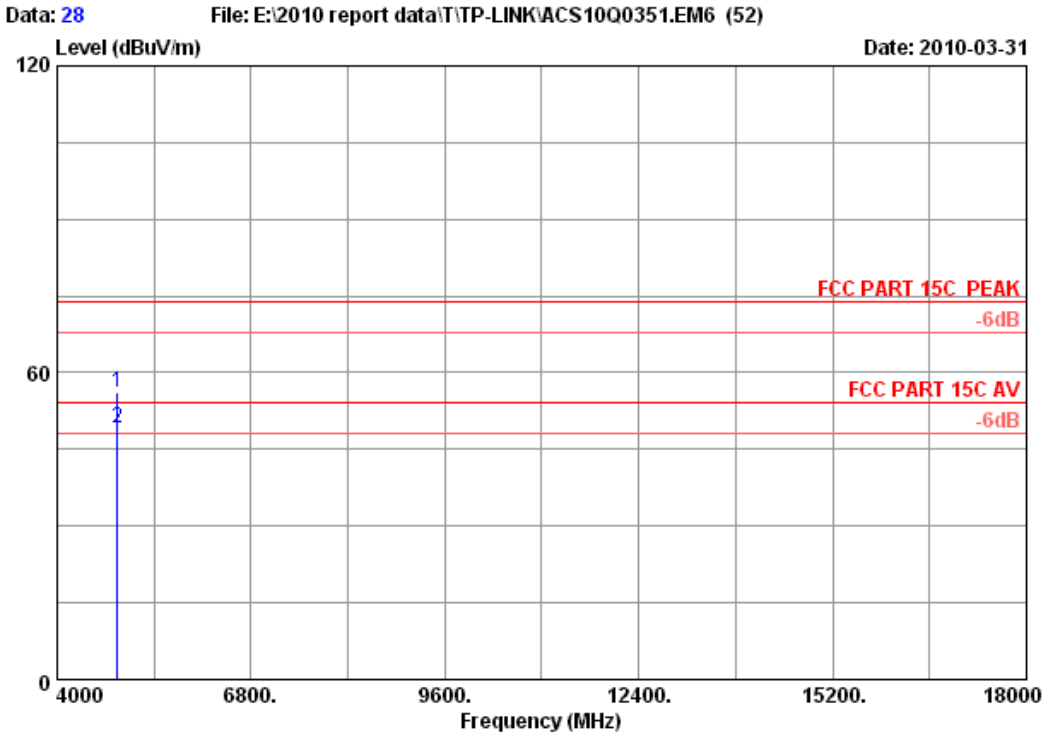

Site no.	: 3m Chamber		Data no.	: 28
Dis. / Ant.	: 3m 3115(0911)		Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK			
Env. / Ins.	: 23*C/54%		Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter			
Power	: DC 3.3V From PC input AC 120V/60Hz			
Test mode	: IEEE802.11g CH6 2437MHz		Tx	
M/N	: TL-WN360G			

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	12.44	35.36	44.60	56.09	74.00	17.91	Peak
2	4874.000	34.41	12.44	35.36	37.58	49.07	54.00	4.93	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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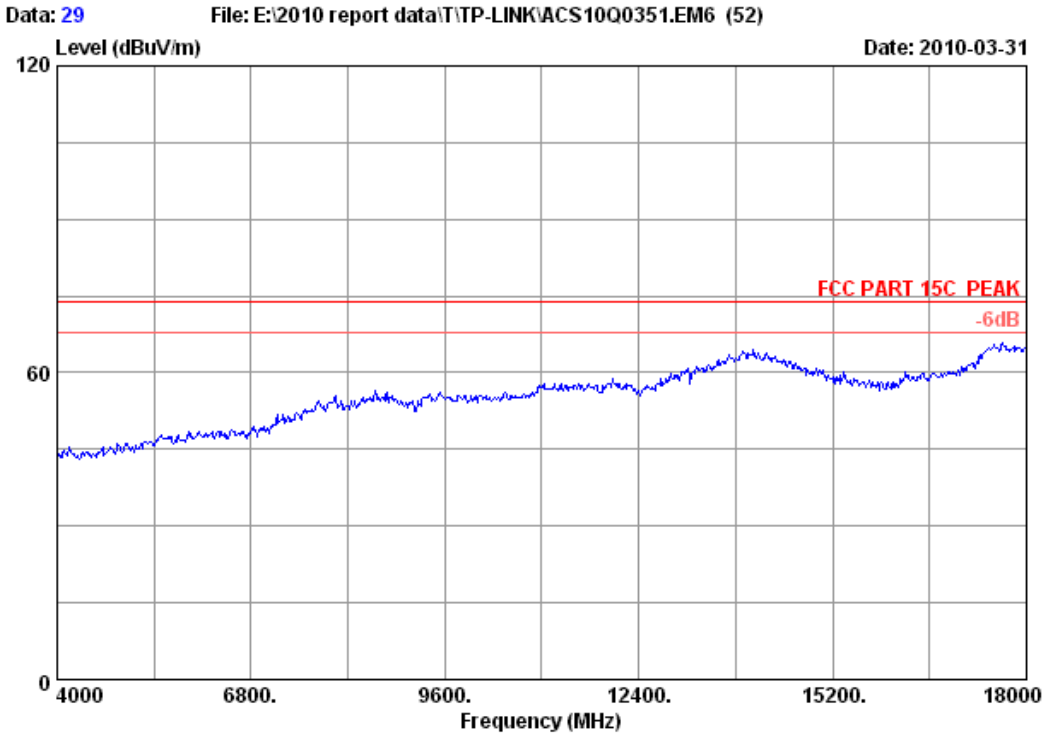

Site no.	: 3m Chamber	Data no.	: 29
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11g CH6 2437MHz	Tx	
M/N	: TL-WN360G		

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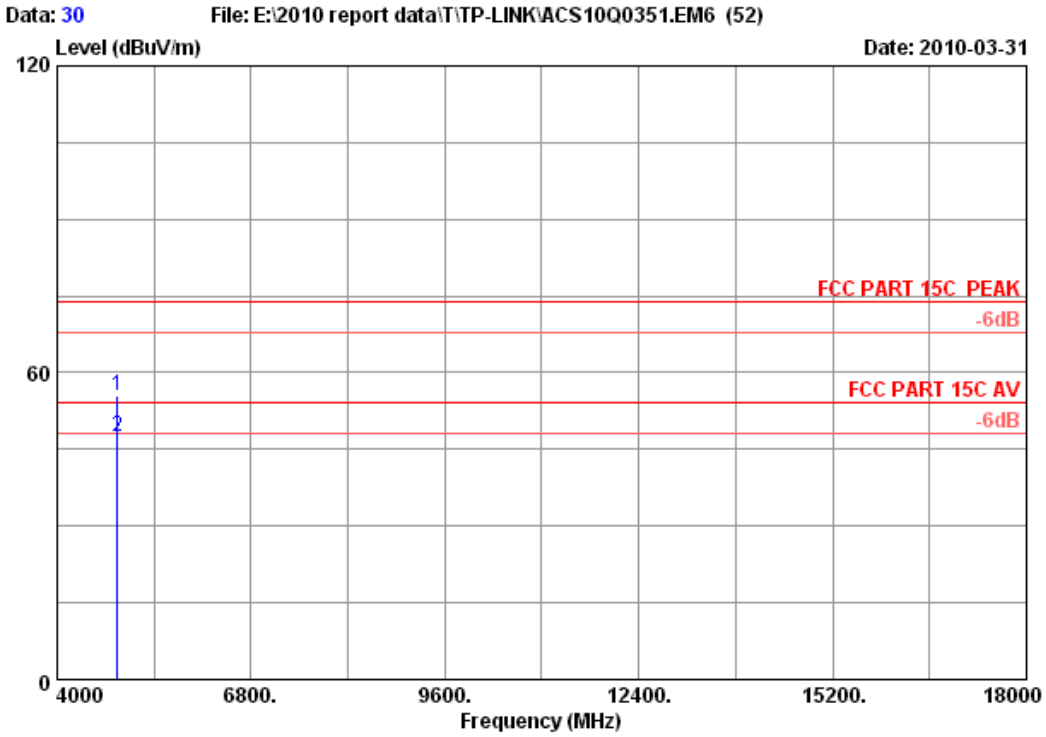

Site no. : 3m Chamber Data no. : 30
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	12.44	35.36	43.94	55.43	74.00	18.57	Peak
2	4874.000	34.41	12.44	35.36	35.85	47.34	54.00	6.66	Average

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

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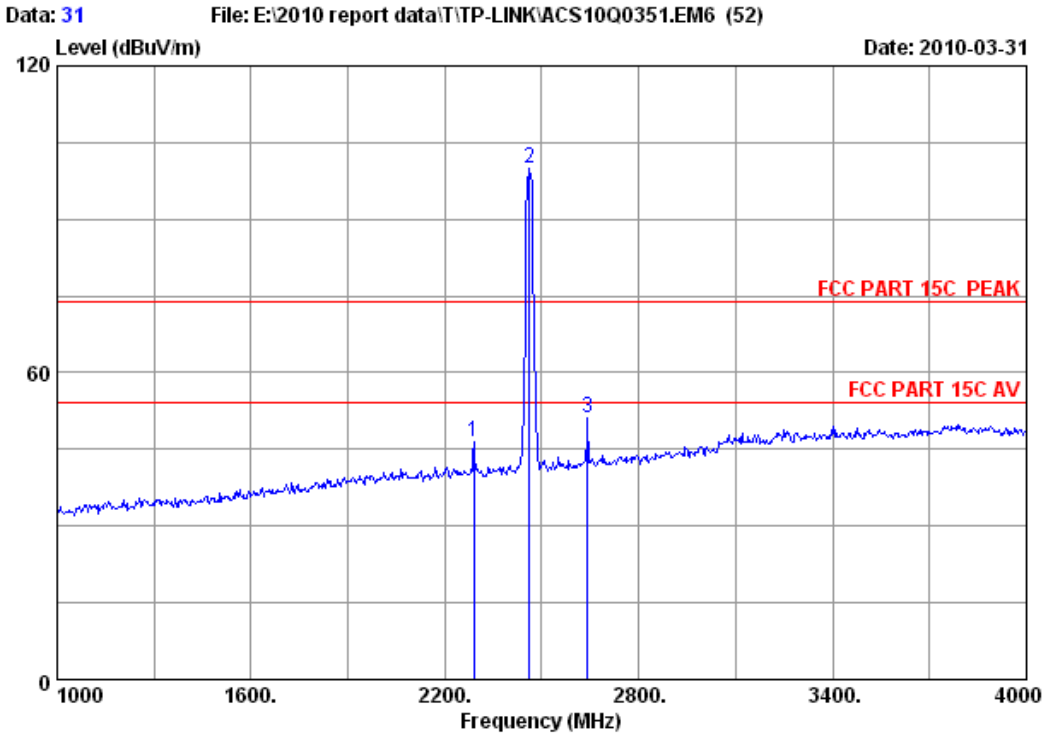

Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : TL-WN360G

	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	2290.000	29.38	8.47	35.92	44.67	46.60	74.00	27.40	Peak
2	2462.000	29.48	8.82	36.02	97.80	100.08	74.00	-26.08	Peak
3	2641.000	30.25	9.17	35.77	47.45	51.10	74.00	22.90	Peak

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

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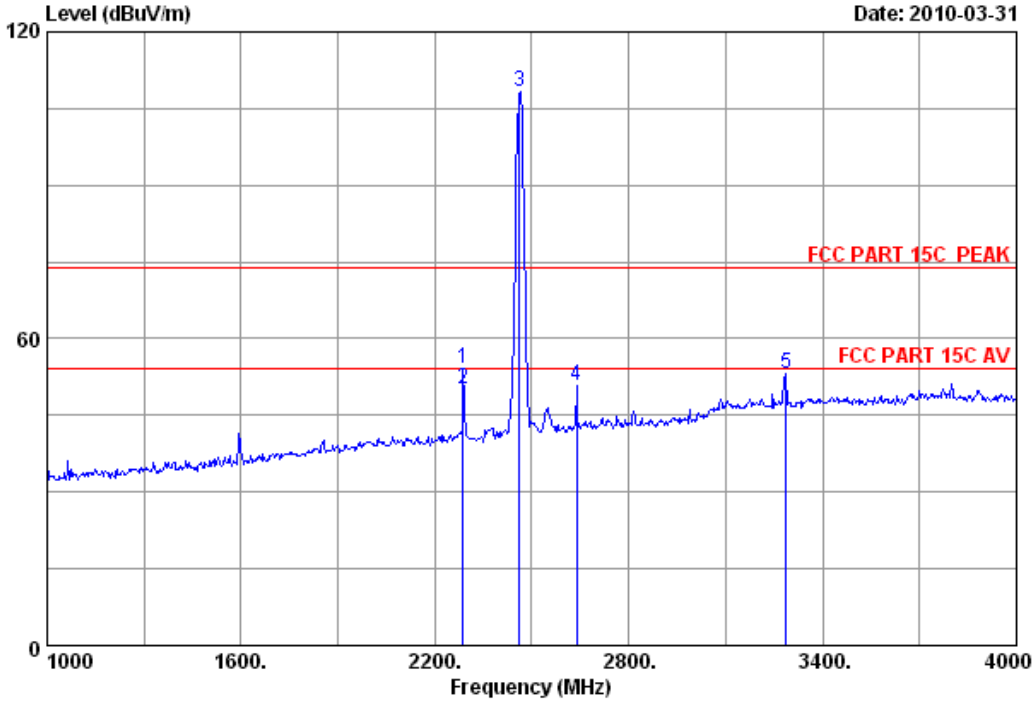

Site no. : 3m Chamber Data no. : 32
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : TL-WN360G

	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	2288.000	29.38	8.47	35.92	52.35	54.28	74.00	19.72	Peak
2	2288.000	29.38	8.47	35.92	48.23	50.16	54.00	3.84	Average
3	2462.000	29.48	8.82	36.02	106.02	108.30	74.00	-34.30	Peak
4	2638.000	30.17	9.17	35.91	47.27	50.70	74.00	23.30	Peak
5	3286.000	32.72	10.32	35.79	45.86	53.11	74.00	20.89	Peak

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

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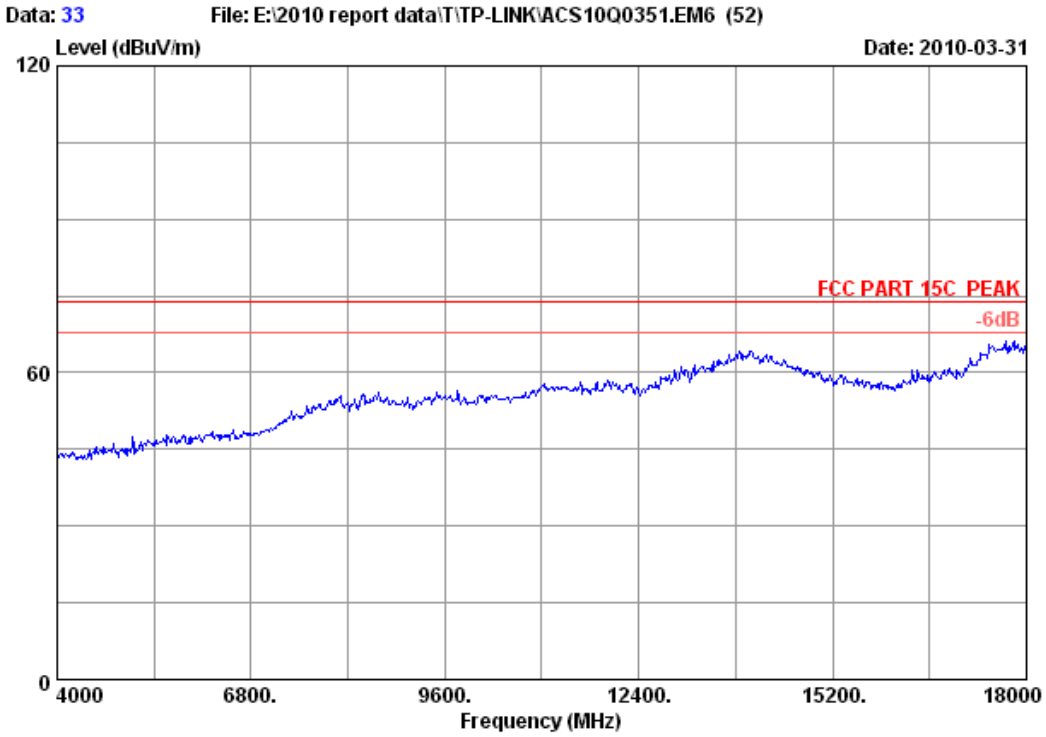
Fax:+86-755-26632877
Postcode:518057



Site no.	: 3m Chamber	Data no.	: 33
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11g CH11 2462MHz Tx		
M/N	: TL-WN360G		

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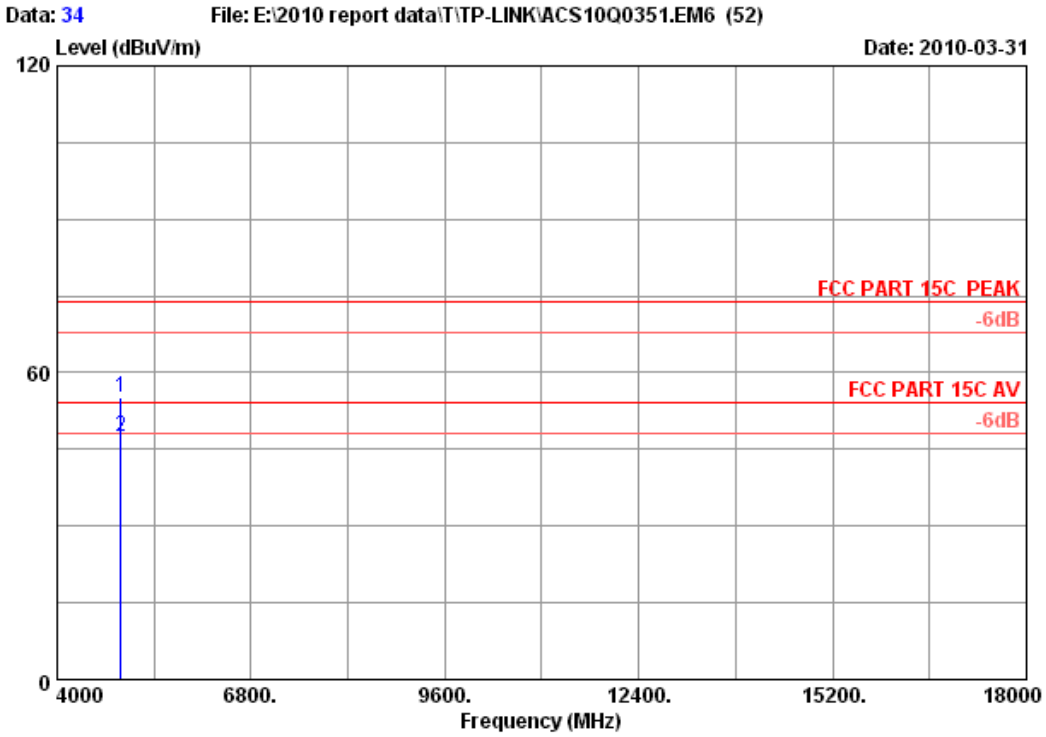

Site no. : 3m Chamber Data no. : 34
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	34.49	12.50	35.34	43.59	55.24	74.00	18.76	Peak
2	4924.000	34.49	12.50	35.34	35.85	47.50	54.00	6.50	Average

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

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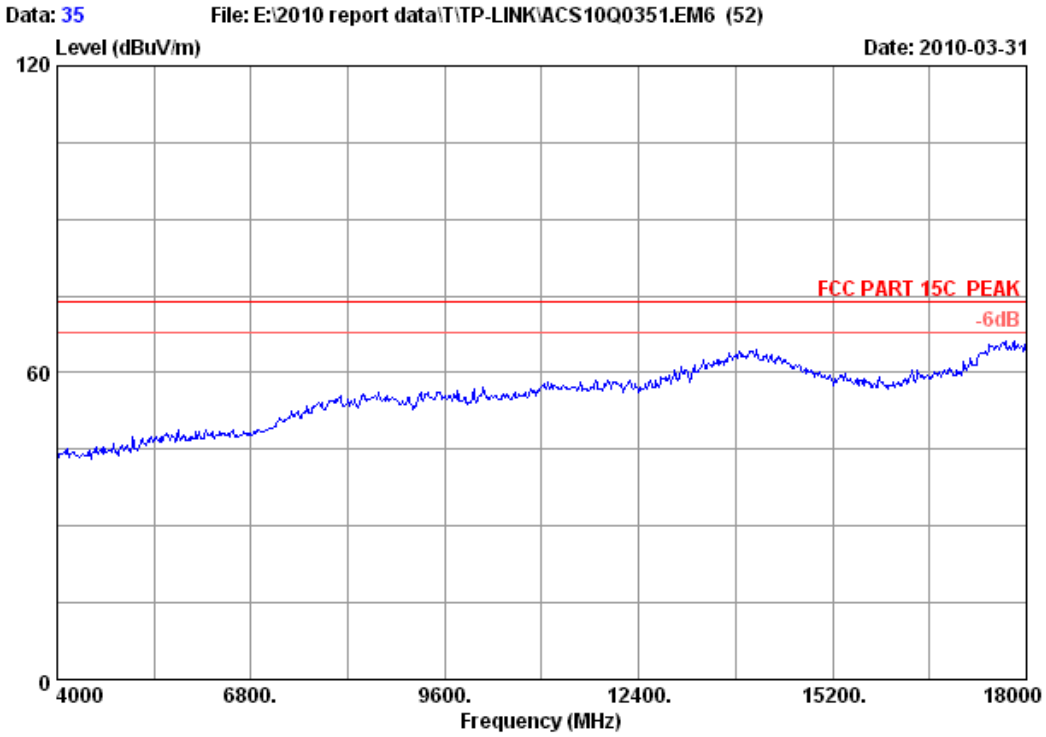

Site no.	: 3m Chamber	Data no.	: 35
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Sunny-lu
EUT	: 54Mbps Wireless Mini PCI Adapter		
Power	: DC 3.3V From PC input AC 120V/60Hz		
Test mode	: IEEE802.11g CH11 2462MHz Tx		
M/N	: TL-WN360G		

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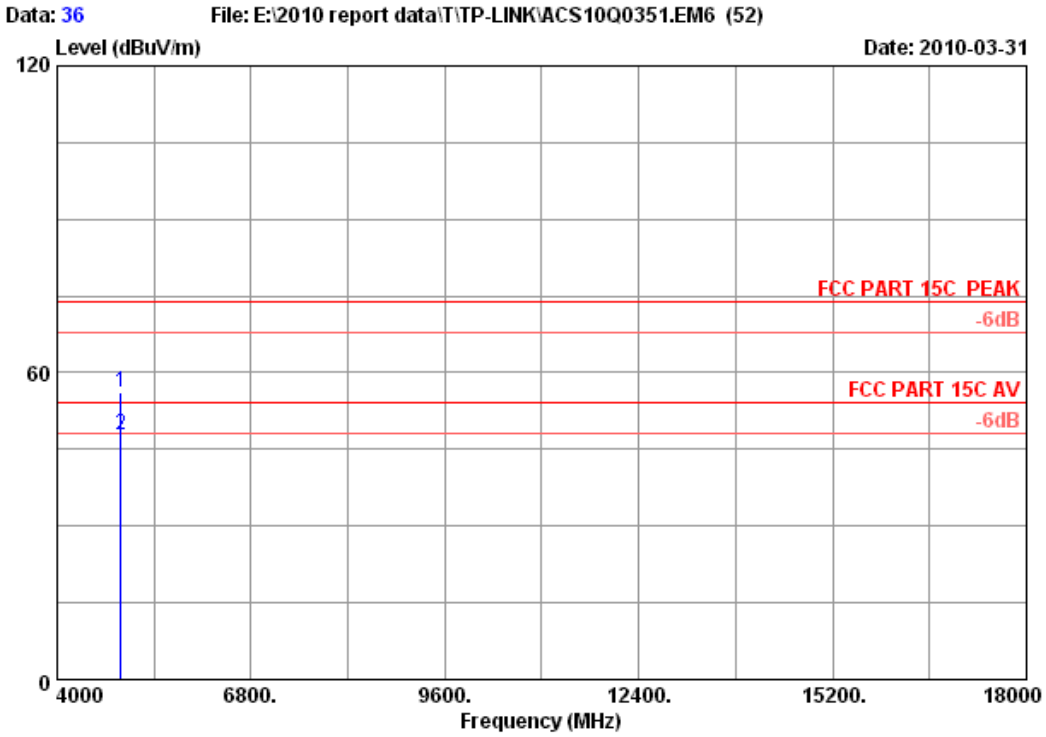


Site no. : 3m Chamber Data no. : 36
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	34.49	12.50	35.34	44.56	56.21	74.00	17.79	Peak
2	4924.000	34.49	12.50	35.34	36.14	47.79	54.00	6.21	Average

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

5. CONDUCTED SPURIOUS EMISSIONS

5.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 09	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May.08, 09	1Year

5.2.Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

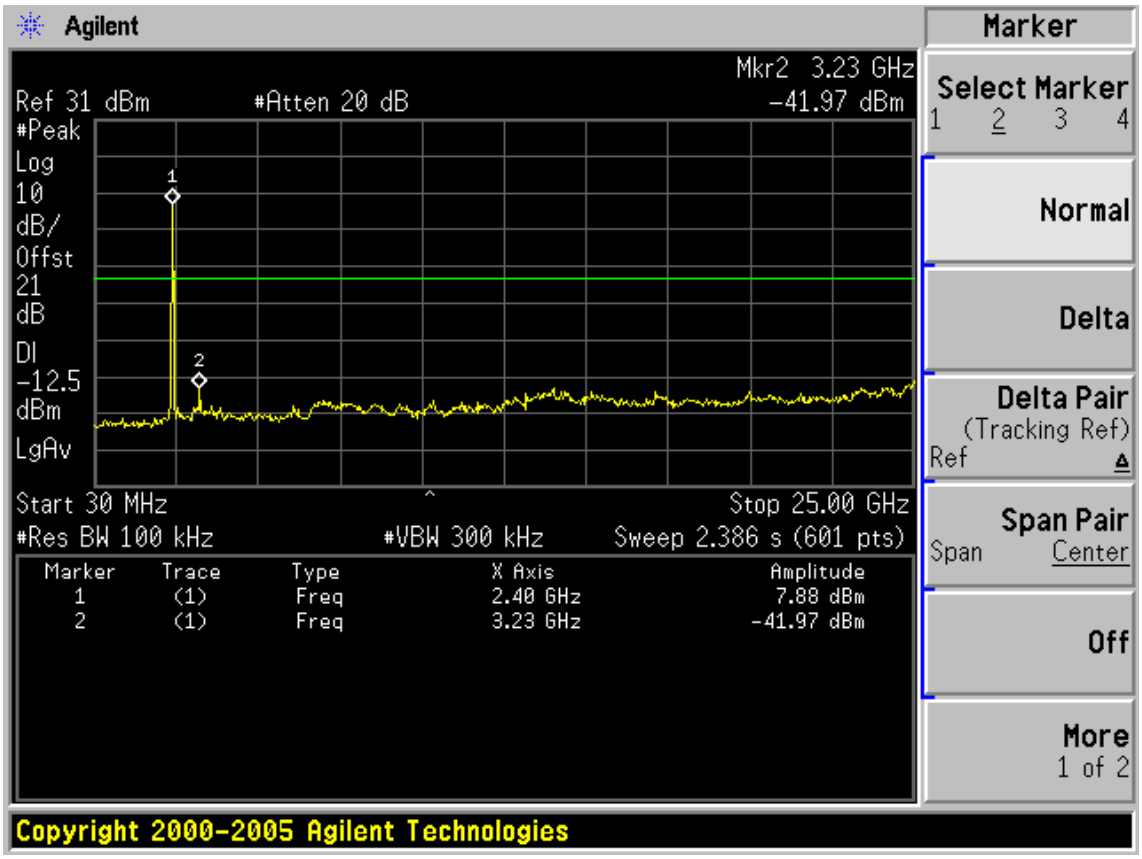
5.3.Test Procedure

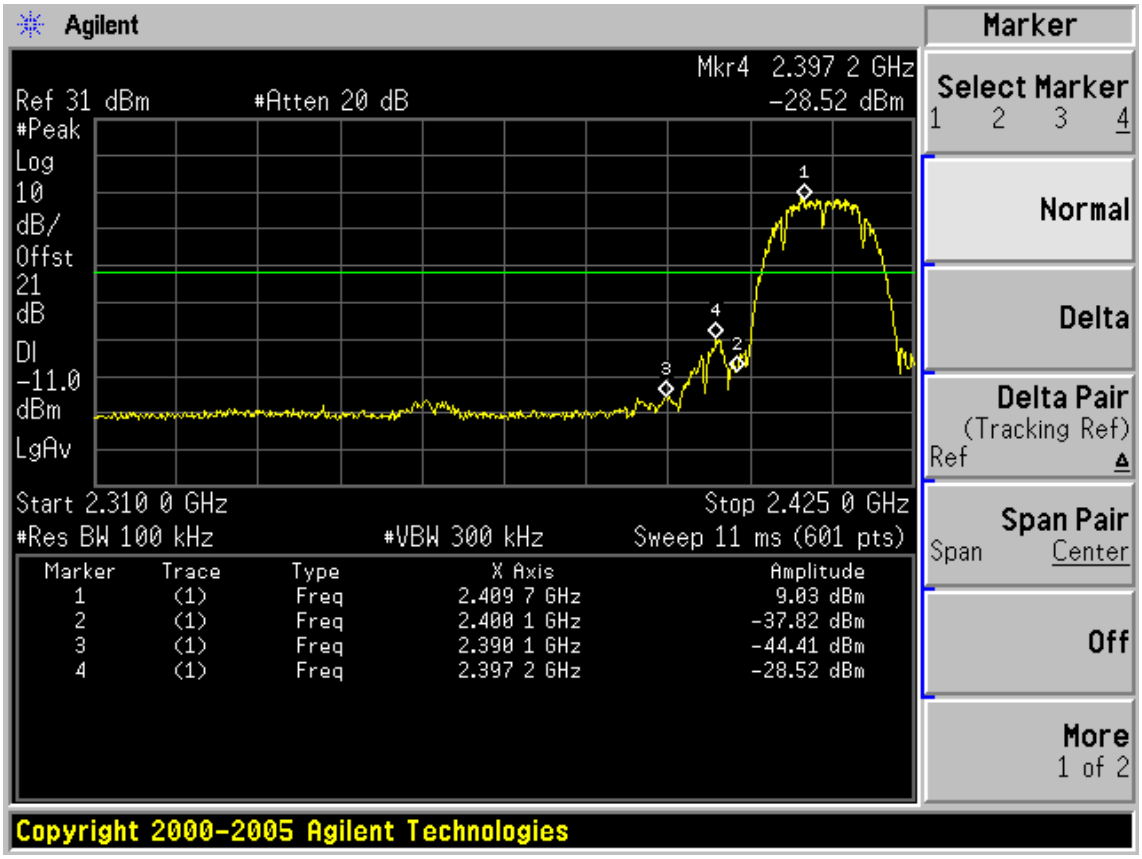
The transmitter output was connected to a spectrum analyzer, the resolution bandwidth is set to 100 kHz, the video bandwidth is set to 300 kHz.

5.4.Test result

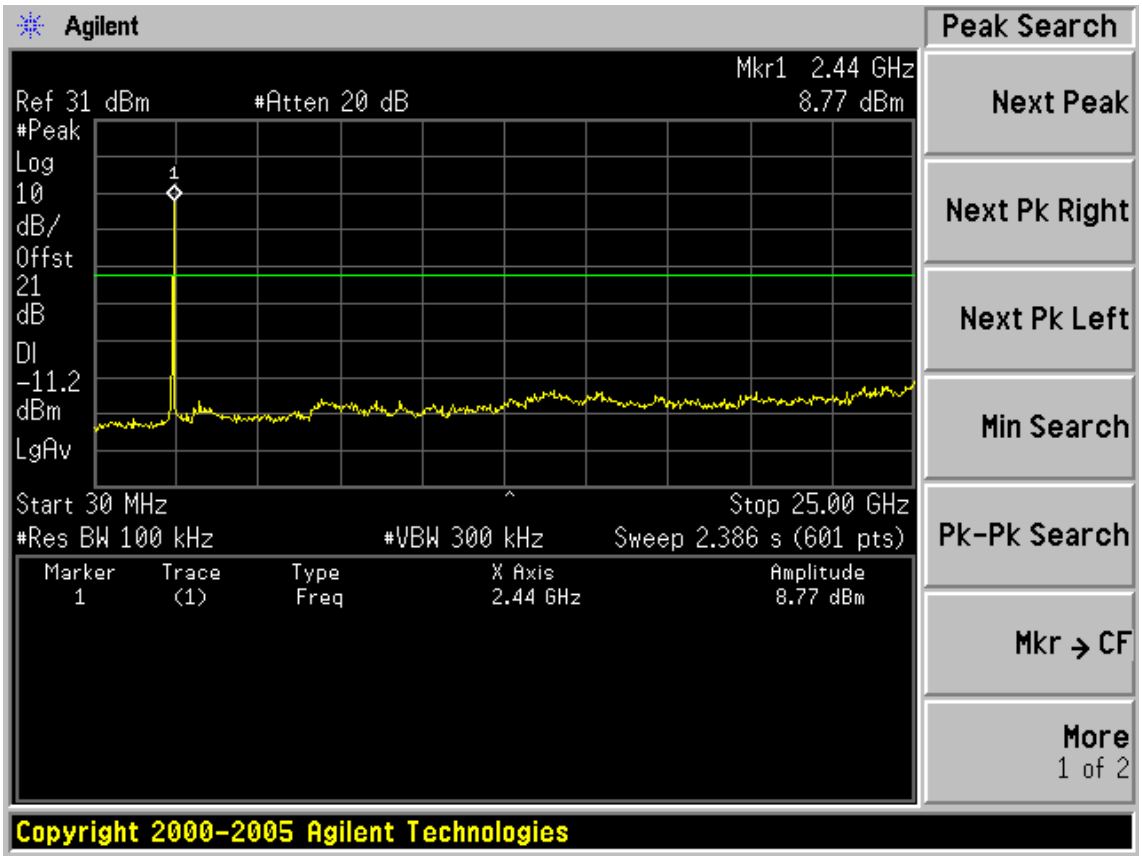
PASS (The testing data was attached in the next pages.)

Conducted emission test data:
Chain 1:
Test Mode: IEEE 802.11b TX
Test CH1: 2412MHz

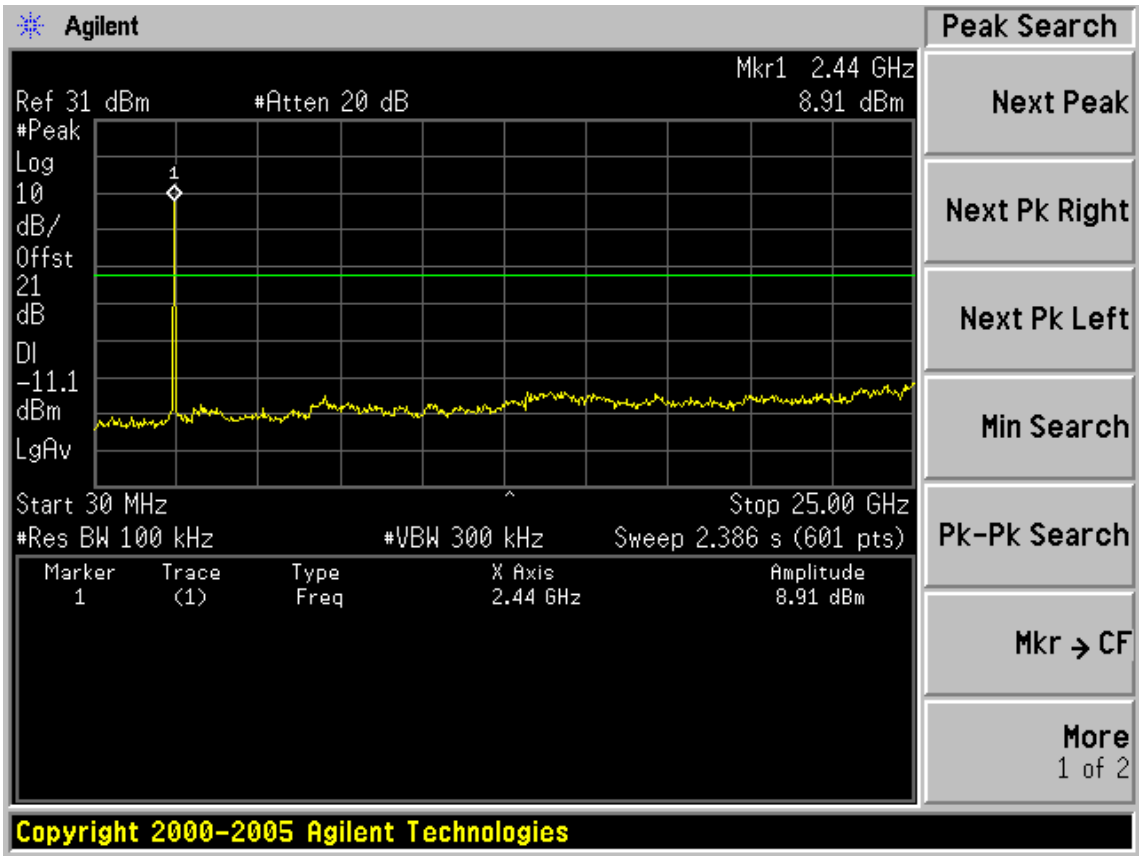


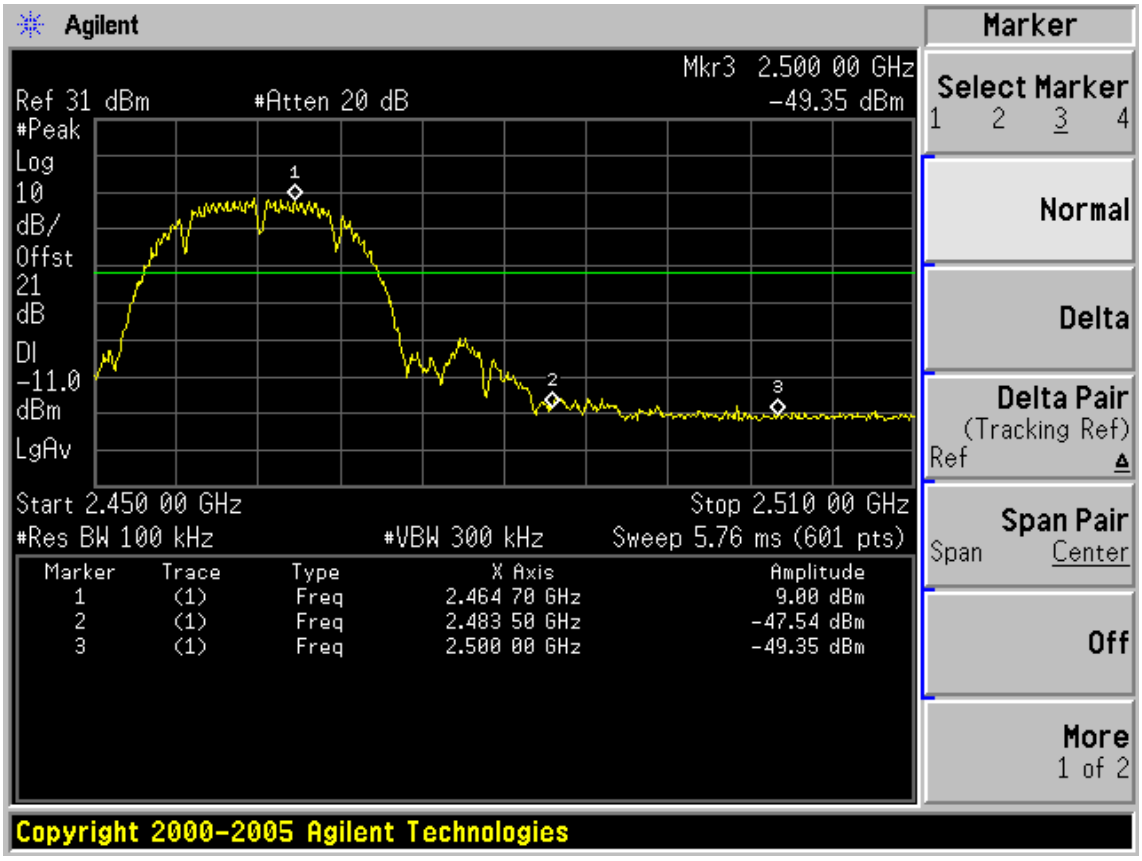


Test CH6: 2437MHz

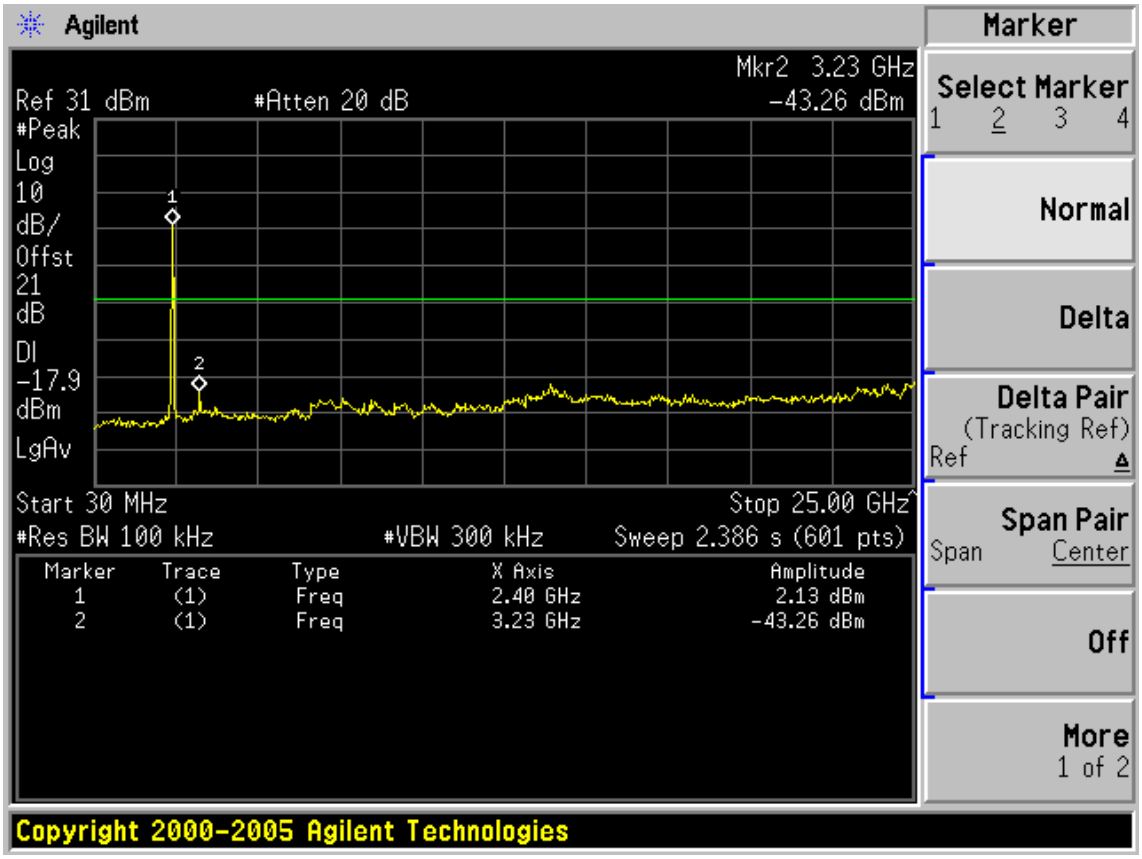


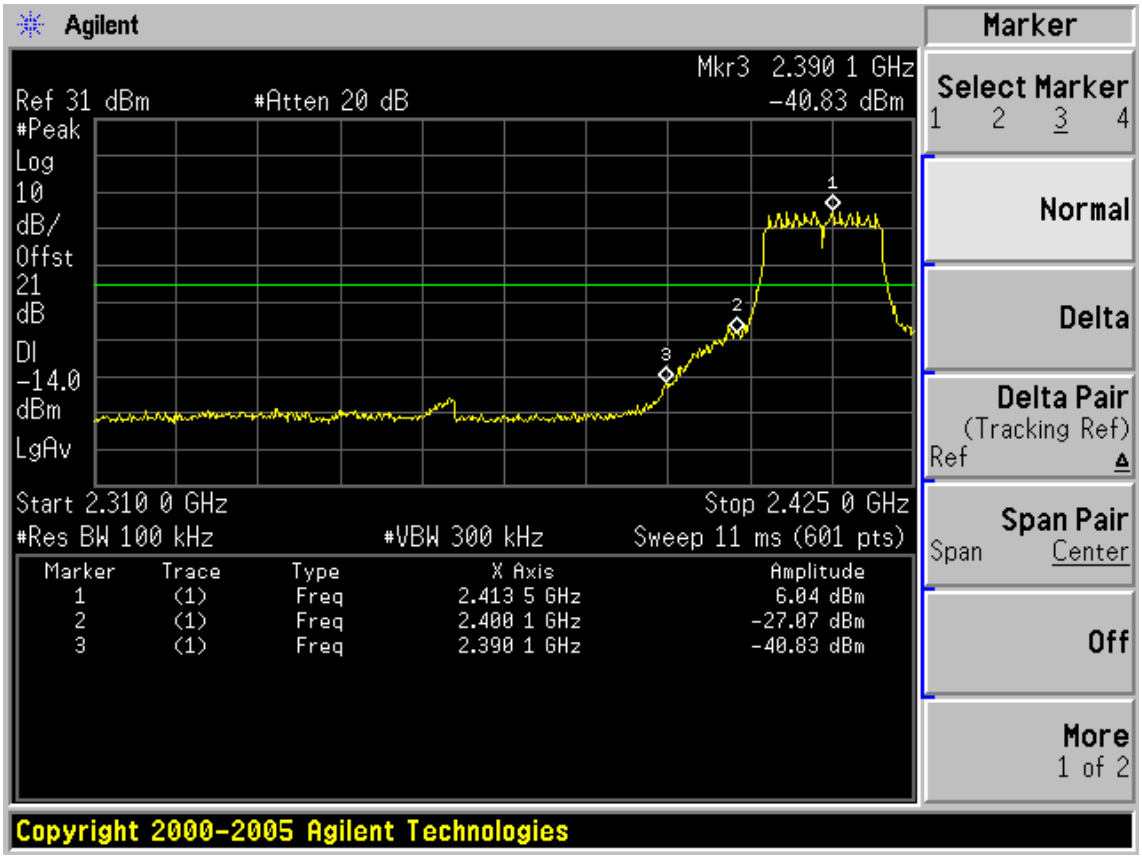
Test CH11: 2462MHz



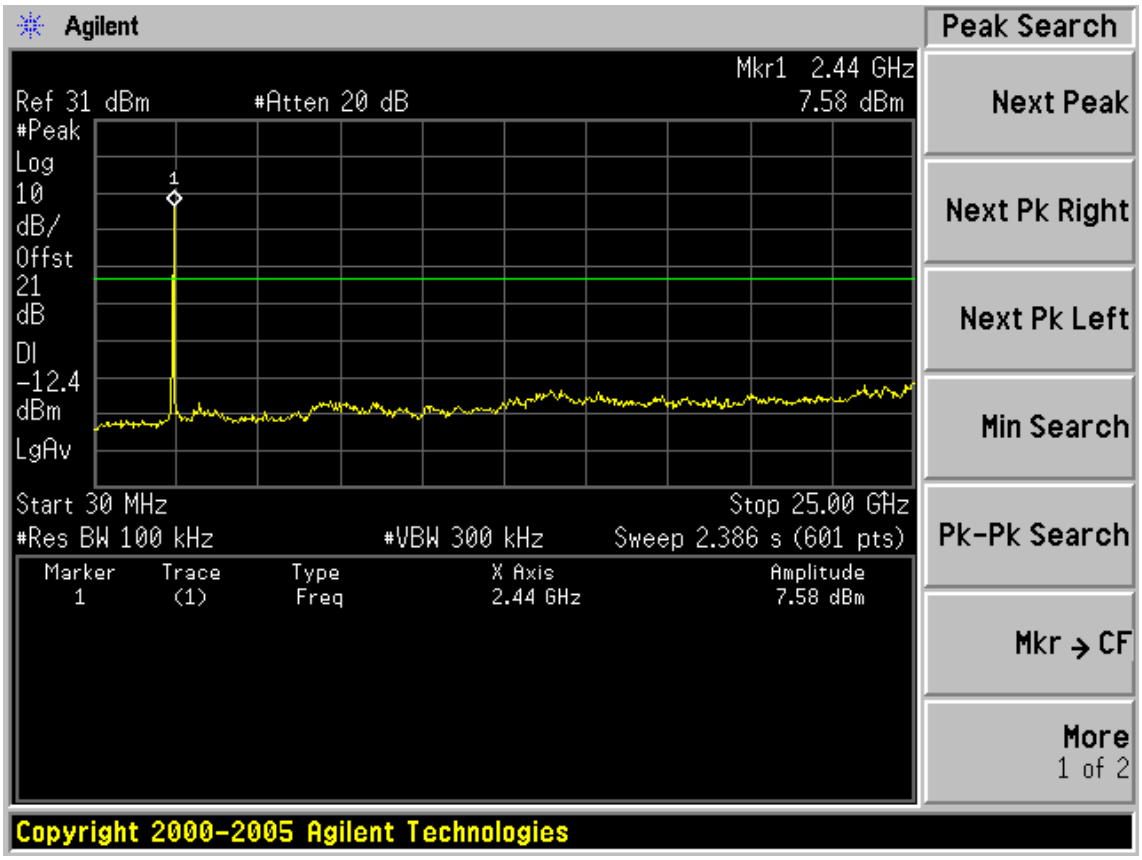


Test Mode: IEEE 802.11g TX
Test CH1: 2412MHz

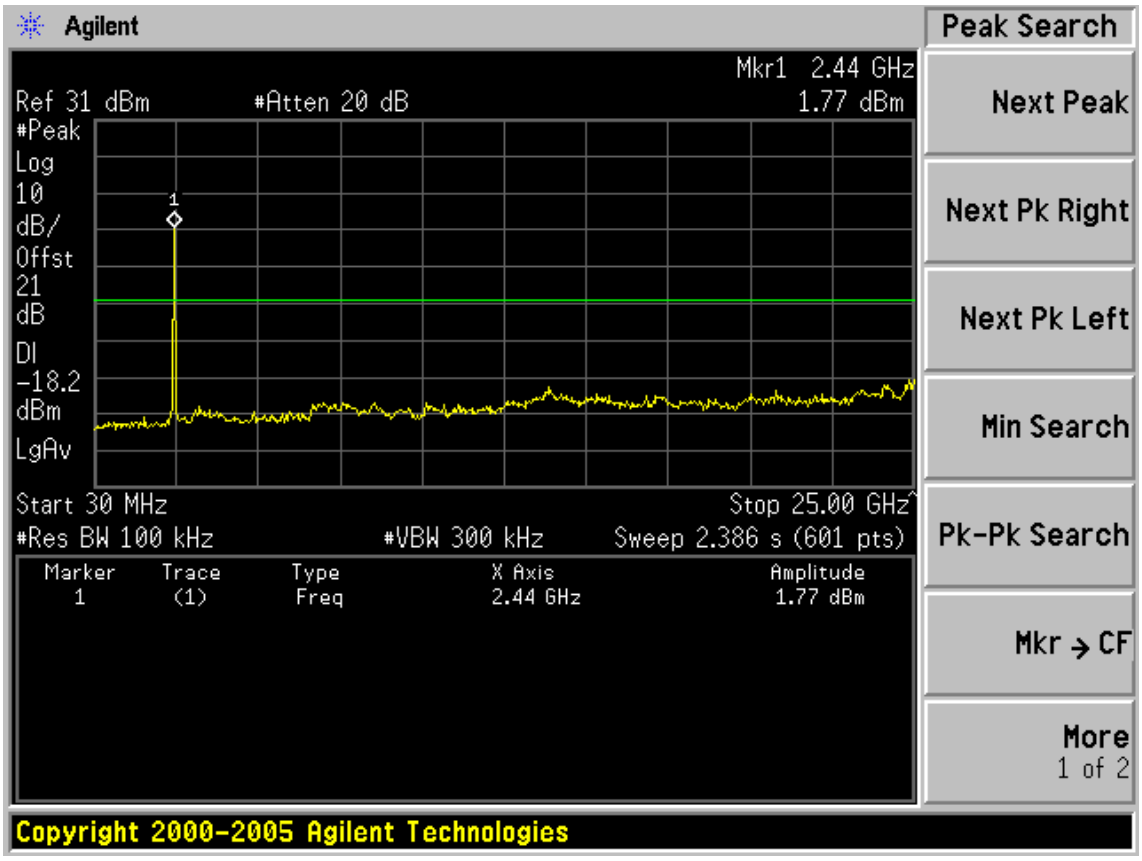


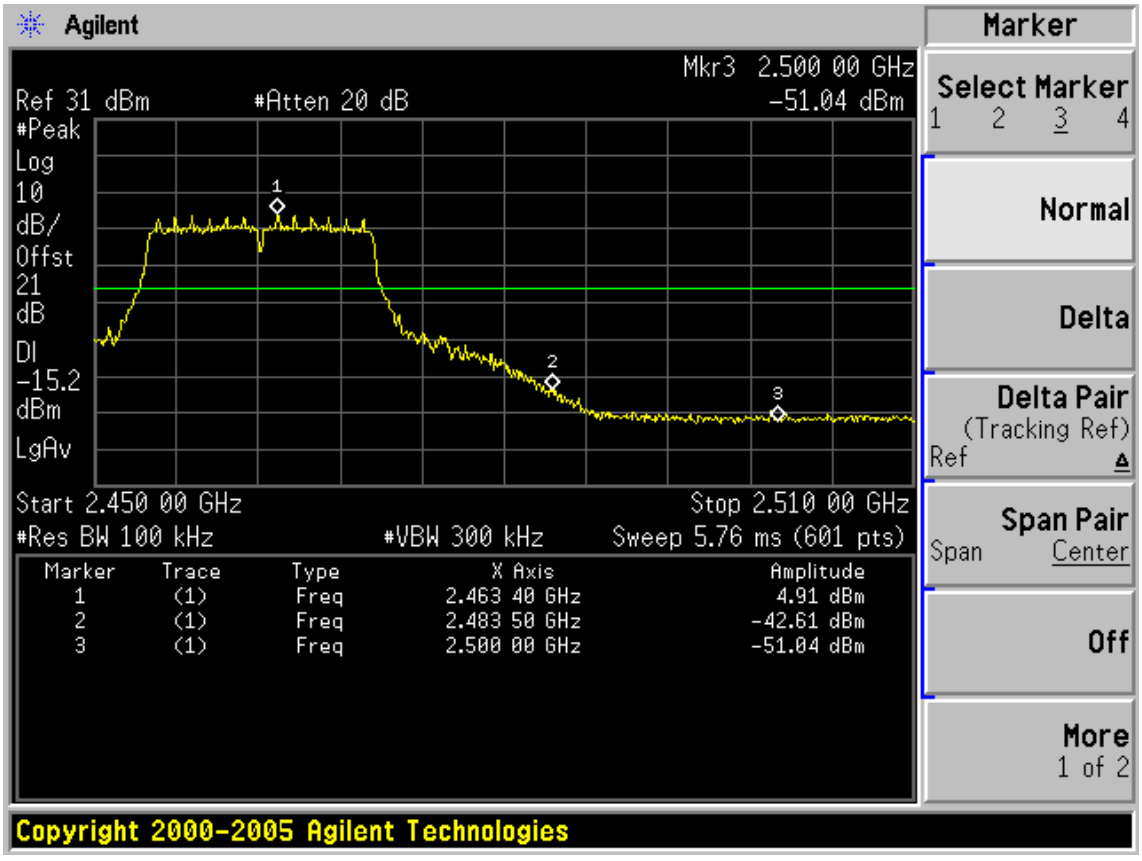


Test CH6: 2437MHz



Test CH11: 2462MHz





6. BAND EDGE COMPLIANCE TEST

6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 09	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX 102	28620/2	May.08, 09	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX 102	271471/4	May.08, 09	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX 102	29086/2	May.08, 09	1 Year

6.2.Limit

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

6.3.Test Produce

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

6.4.Test Results

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

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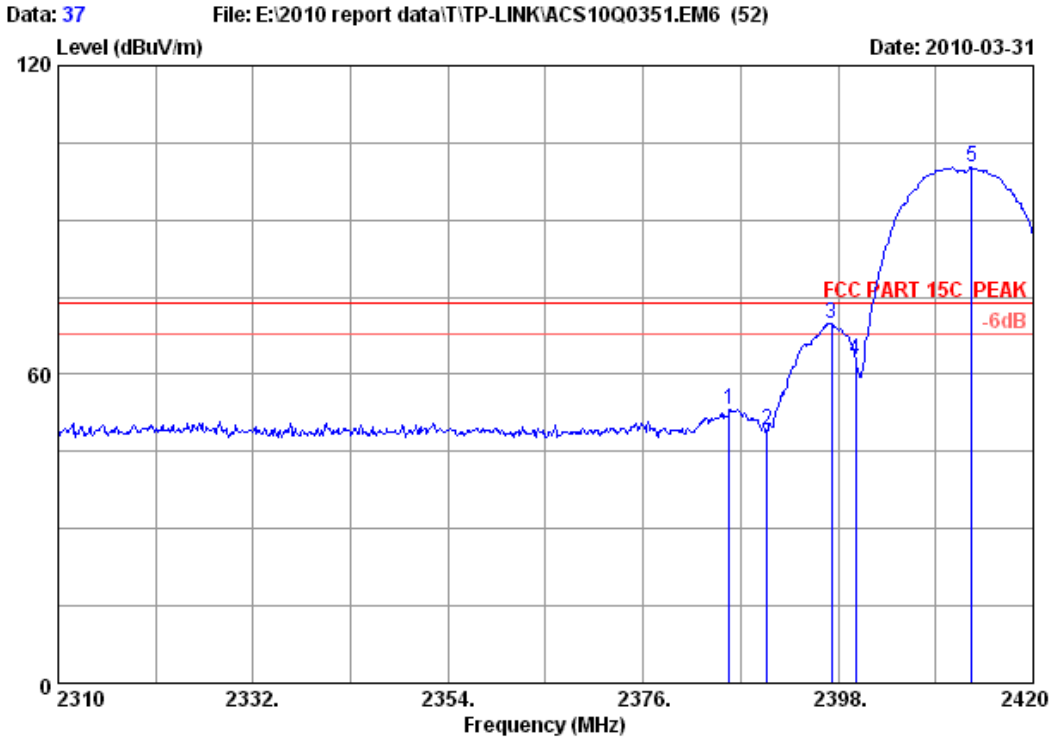

Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : TL-WN360G

	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	2385.680	29.44	8.67	36.09	51.29	53.31	74.00	20.69	Peak
2	2390.000	29.44	8.67	36.09	47.03	49.05	74.00	24.95	Peak
3	2397.230	29.44	8.72	36.09	67.77	69.84	74.00	4.16	Peak
4	2400.000	29.44	8.72	36.09	60.61	62.68	74.00	11.32	Peak
5	2413.070	29.45	8.72	35.95	97.95	100.17	74.00	-26.17	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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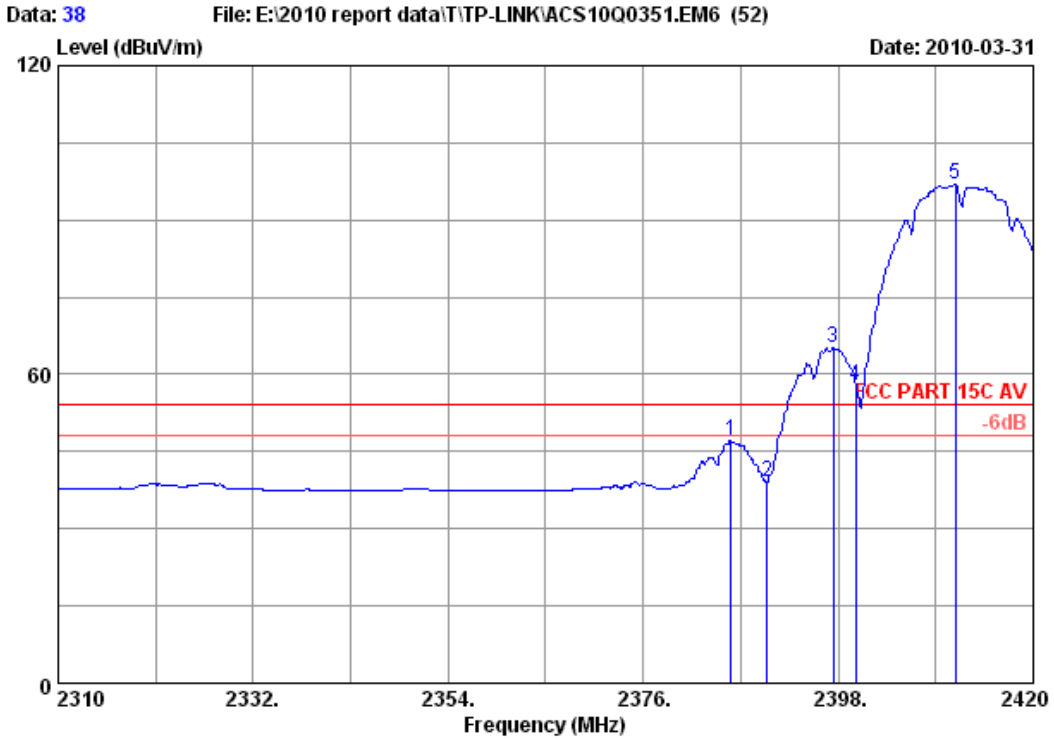
Postcode:518057



Site no. : 3m Chamber Data no. : 38
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : TL-WN360G

	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	2385.900	29.44	8.67	36.09	45.04	47.06	54.00	6.94	Average
2	2390.000	29.44	8.67	36.09	37.21	39.23	54.00	14.77	Average
3	2397.450	29.44	8.72	36.09	63.12	65.19	54.00	-11.19	Average
4	2400.000	29.44	8.72	36.09	55.84	57.91	54.00	-3.91	Average
5	2411.200	29.45	8.72	35.95	94.81	97.03	54.00	-43.03	Average

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

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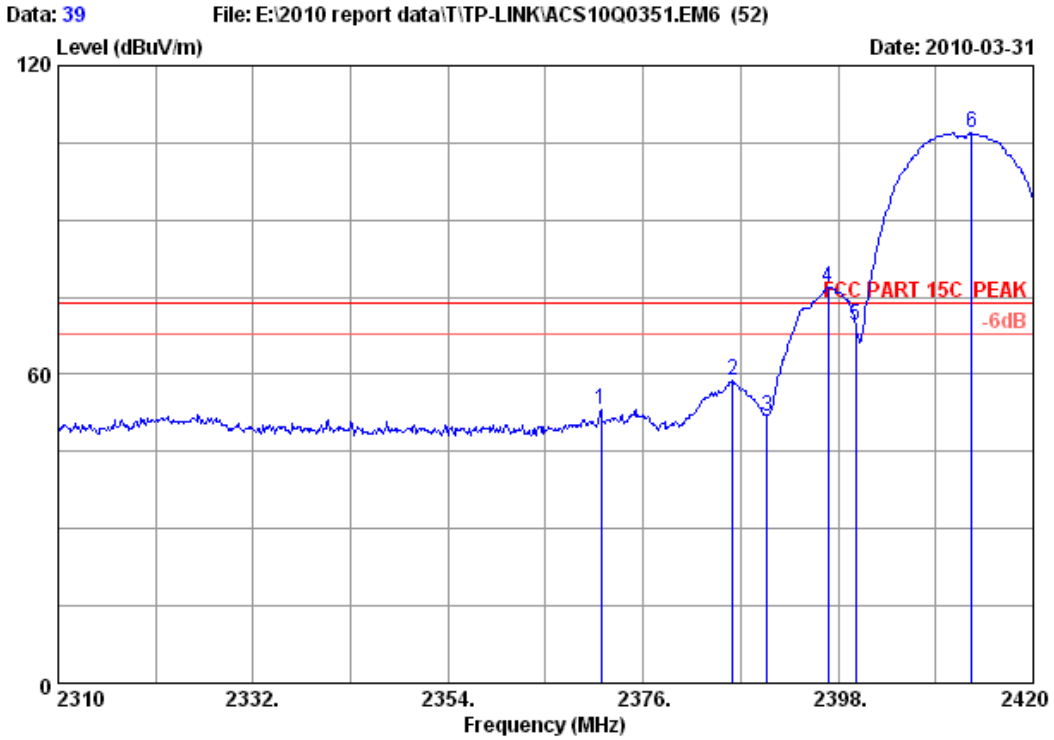

Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2371.270	29.43	8.62	36.00	51.15	53.20	74.00	20.80	Peak
2	2386.120	29.44	8.67	36.09	56.74	58.76	74.00	15.24	Peak
3	2390.000	29.44	8.67	36.09	49.80	51.82	74.00	22.18	Peak
4	2396.900	29.44	8.72	36.09	74.91	76.98	74.00	-2.98	Peak
5	2400.000	29.44	8.72	36.09	67.31	69.38	74.00	4.62	Peak
6	2413.070	29.45	8.72	35.95	104.69	106.91	74.00	-32.91	Peak

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

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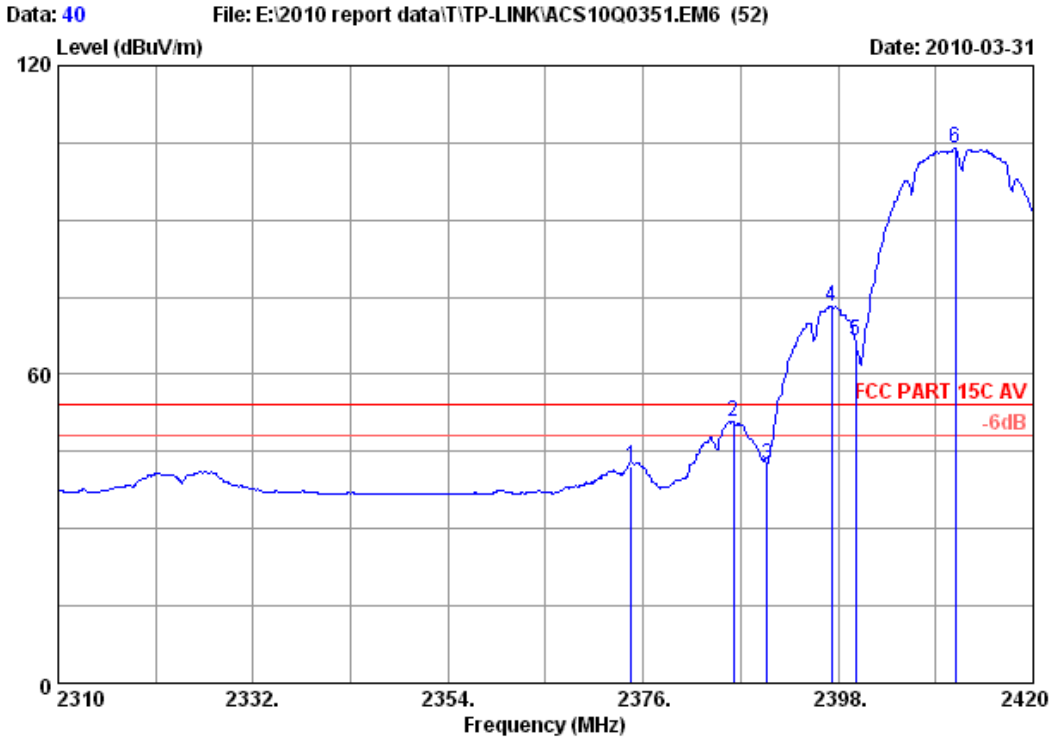

Site no. : 3m Chamber Data no. : 40
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : TL-WN360G

	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	2374.680	29.43	8.67	36.00	40.02	42.12	54.00	11.88	Average
2	2386.230	29.44	8.67	36.09	48.75	50.77	54.00	3.23	Average
3	2390.000	29.44	8.67	36.09	40.30	42.32	54.00	11.68	Average
4	2397.230	29.44	8.72	36.09	71.27	73.34	54.00	-19.34	Average
5	2400.000	29.44	8.72	36.09	64.45	66.52	54.00	-12.52	Average
6	2411.200	29.45	8.72	35.95	101.61	103.83	54.00	-49.83	Average

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

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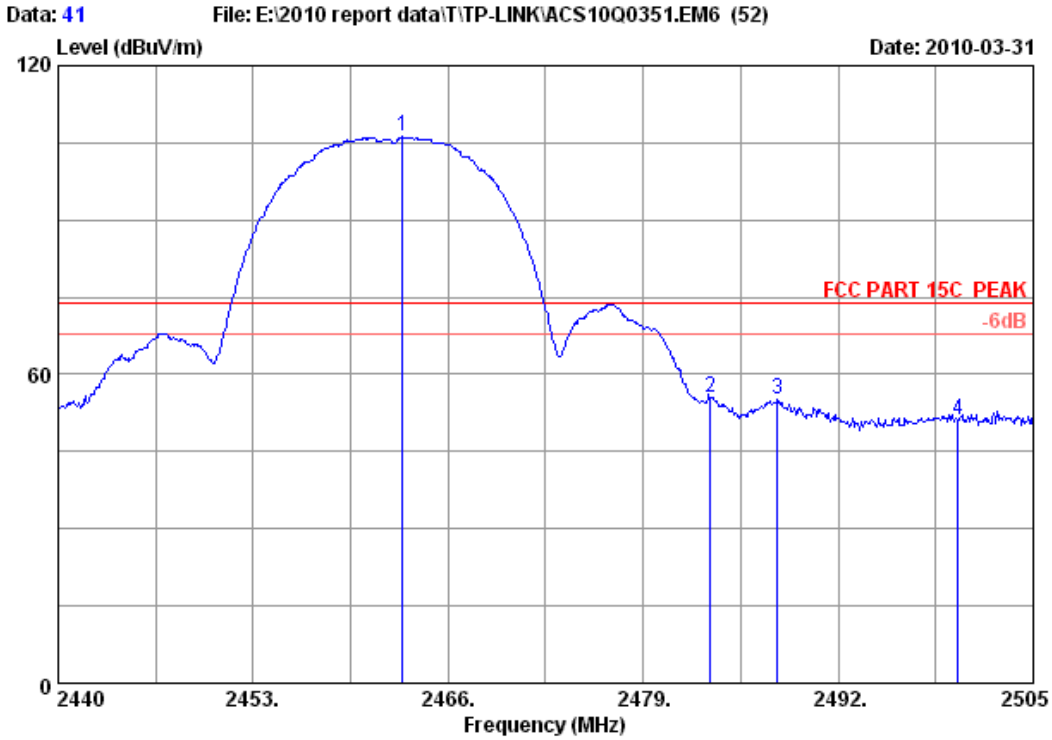

Site no. : 3m Chamber Data no. : 41
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.945	29.48	8.82	36.02	103.85	106.13	74.00	-32.13	Peak
2	2483.500	29.49	8.87	35.97	52.98	55.37	74.00	18.63	Peak
3	2487.970	29.50	8.87	36.00	52.95	55.32	74.00	18.68	Peak
4	2500.000	29.50	8.92	36.00	48.76	51.18	74.00	22.82	Peak

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

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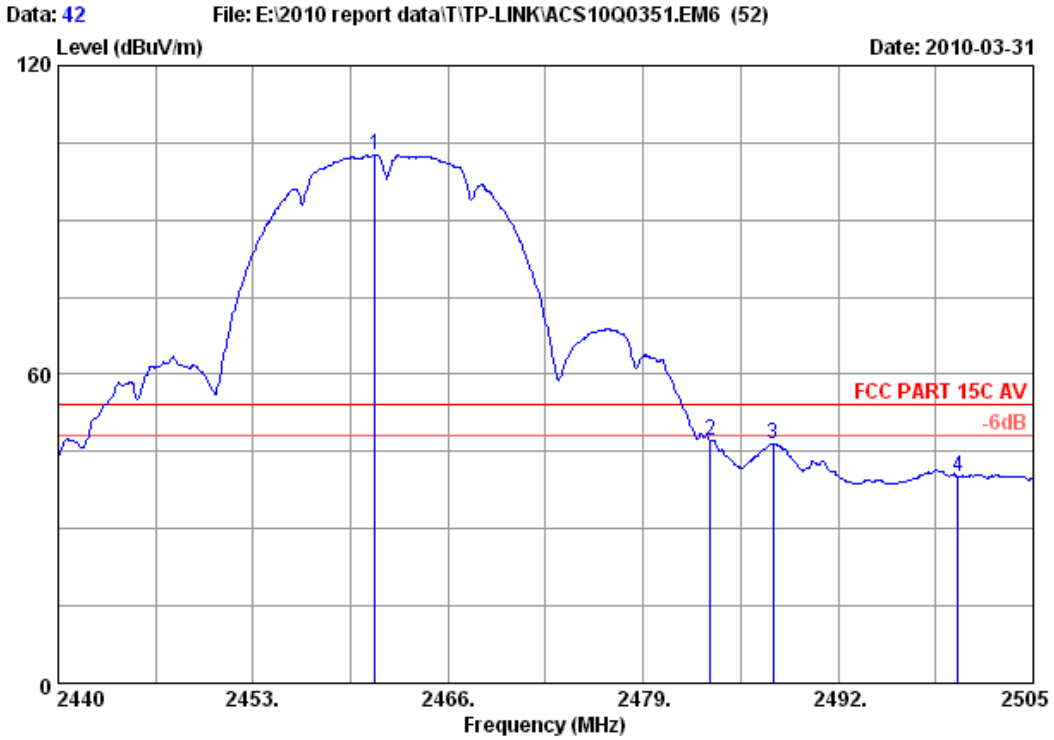

Site no. : 3m Chamber Data no. : 42
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.125	29.48	8.82	36.02	100.41	102.69	54.00	-48.69	Peak
2	2483.500	29.49	8.87	35.97	44.60	46.99	54.00	7.01	Peak
3	2487.645	29.50	8.87	36.00	44.18	46.55	54.00	7.45	Peak
4	2500.000	29.50	8.92	36.00	37.80	40.22	54.00	13.78	Peak

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

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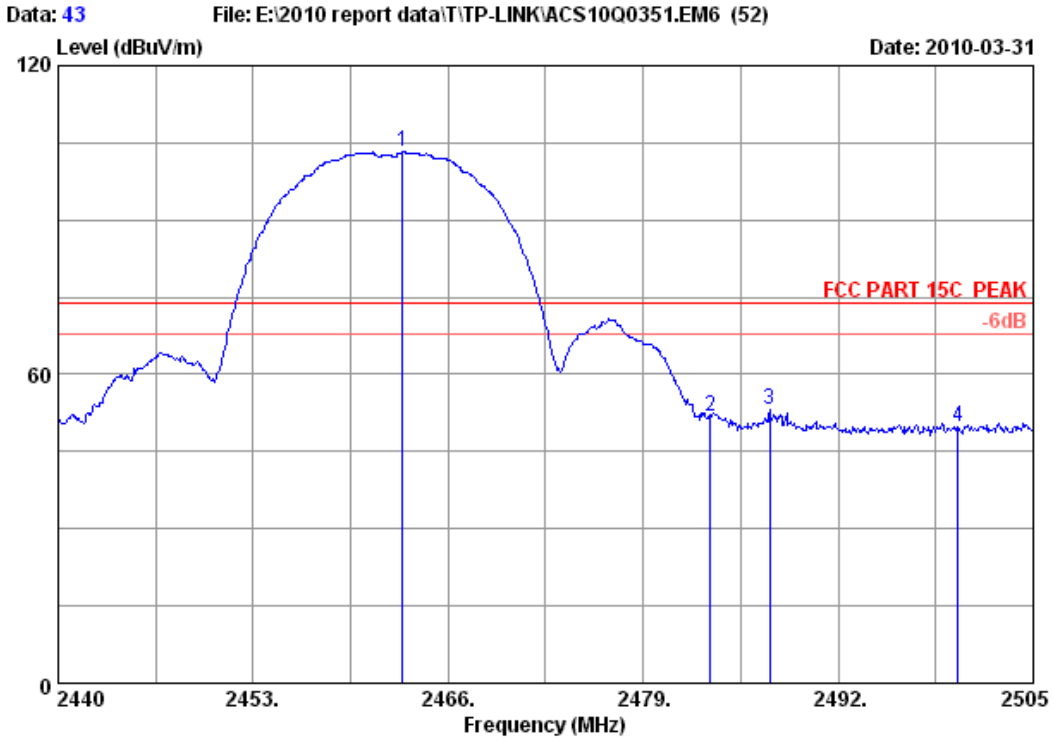

Site no. : 3m Chamber Data no. : 43
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.945	29.48	8.82	36.02	100.92	103.20	74.00	-29.20	Peak
2	2483.500	29.49	8.87	35.97	49.56	51.95	74.00	22.05	Peak
3	2487.450	29.49	8.87	35.97	50.66	53.05	74.00	20.95	Peak
4	2500.000	29.50	8.92	36.00	47.24	49.66	74.00	24.34	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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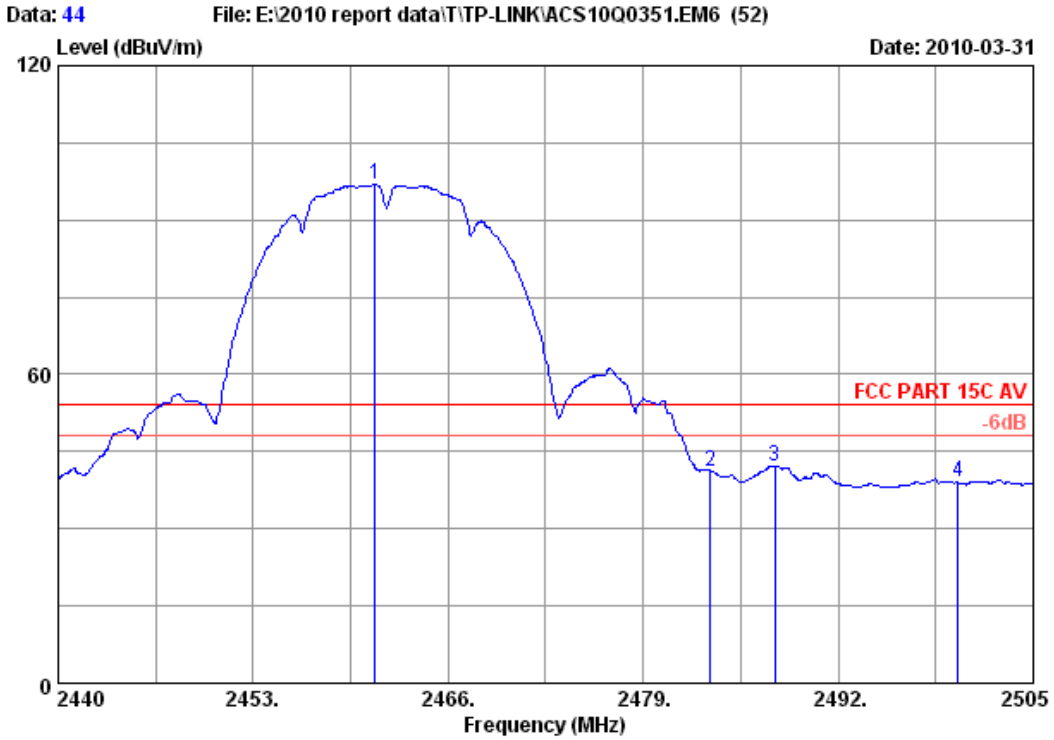
Postcode:518057



Site no. : 3m Chamber Data no. : 44
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.125	29.48	8.82	36.02	94.70	96.98	54.00	-42.98	Average
2	2483.500	29.49	8.87	35.97	38.87	41.26	54.00	12.74	Average
3	2487.775	29.50	8.87	36.00	39.91	42.28	54.00	11.72	Average
4	2500.000	29.50	8.92	36.00	36.58	39.00	54.00	15.00	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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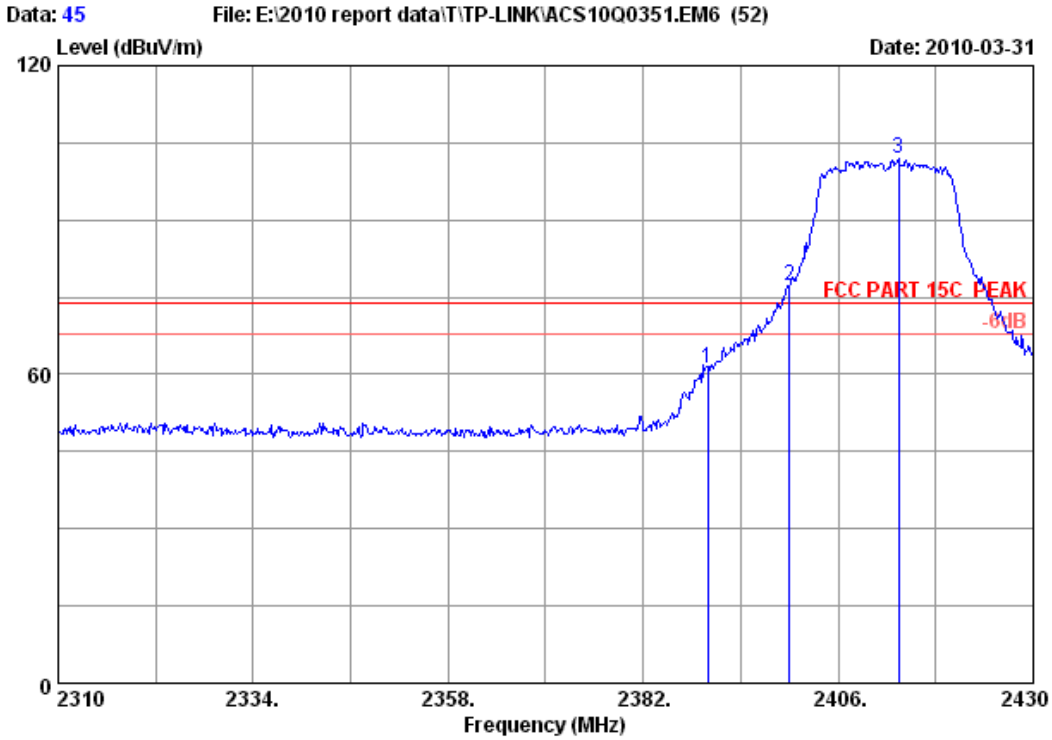
Postcode:518057



Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	8.67	36.09	59.15	61.17	74.00	12.83	Peak
2	2400.000	29.44	8.72	36.09	75.02	77.09	74.00	-3.09	Peak
3	2413.440	29.45	8.72	35.95	99.69	101.91	74.00	-27.91	Peak

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

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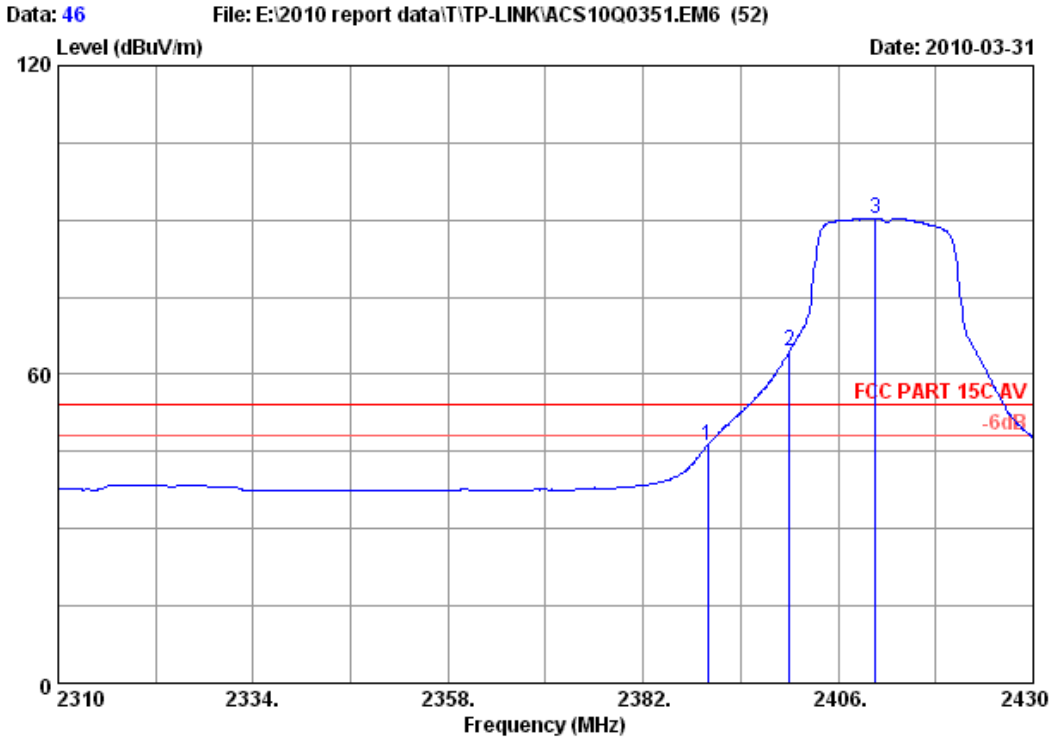

Site no. : 3m Chamber Data no. : 46
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	8.67	36.09	44.26	46.28	54.00	7.72	Average
2	2400.000	29.44	8.72	36.09	62.44	64.51	54.00	-10.51	Average
3	2410.560	29.45	8.72	35.95	88.18	90.40	54.00	-36.40	Average

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

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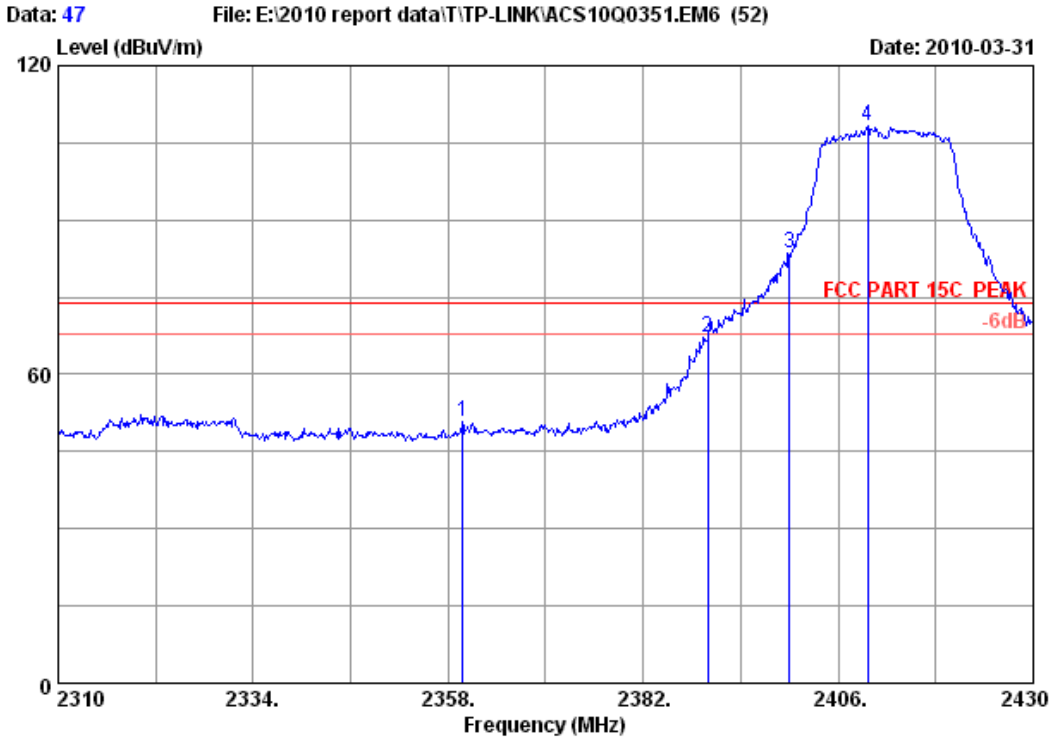

Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : TL-WN360G

	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	2359.800	29.42	8.62	35.91	48.71	50.84	74.00	23.16	Peak
2	2390.000	29.44	8.67	36.09	65.15	67.17	74.00	6.83	Peak
3	2400.000	29.44	8.72	36.09	81.38	83.45	74.00	-9.45	Peak
4	2409.600	29.45	8.72	35.95	106.06	108.28	74.00	-34.28	Peak

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

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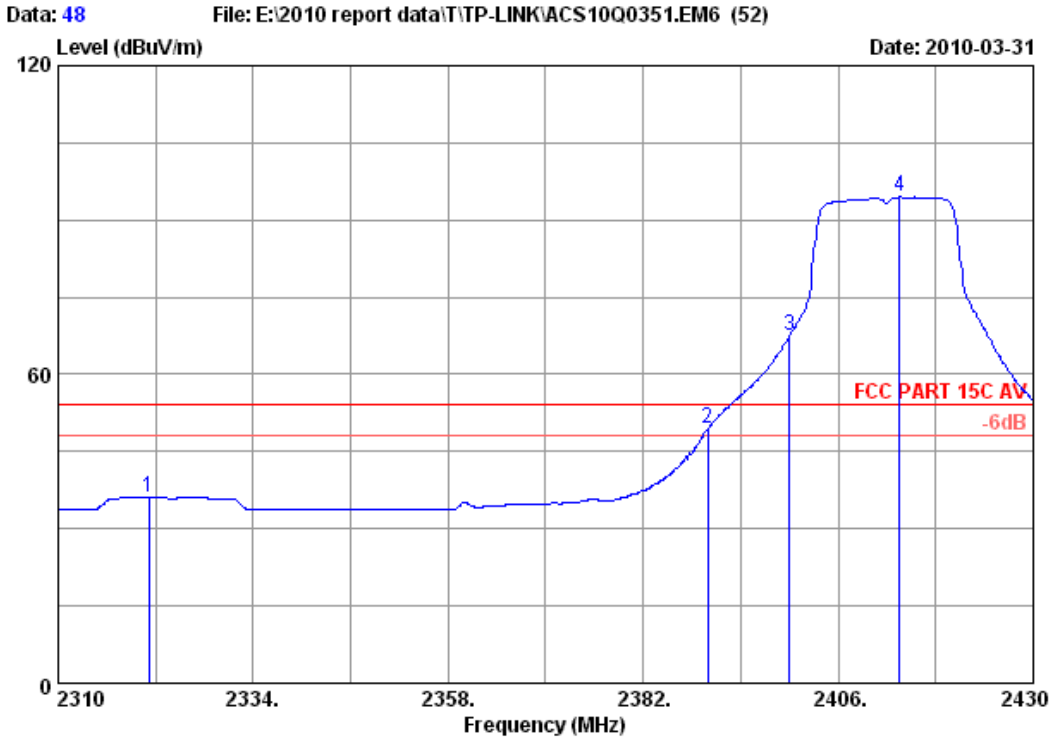

Site no. : 3m Chamber Data no. : 48
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : TL-WN360G

	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	2321.160	29.40	8.52	36.06	34.35	36.21	54.00	17.79	Average
2	2390.000	29.44	8.67	36.09	47.37	49.39	54.00	4.61	Average
3	2400.000	29.44	8.72	36.09	65.42	67.49	54.00	-13.49	Average
4	2413.560	29.45	8.72	35.95	92.23	94.45	54.00	-40.45	Average

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

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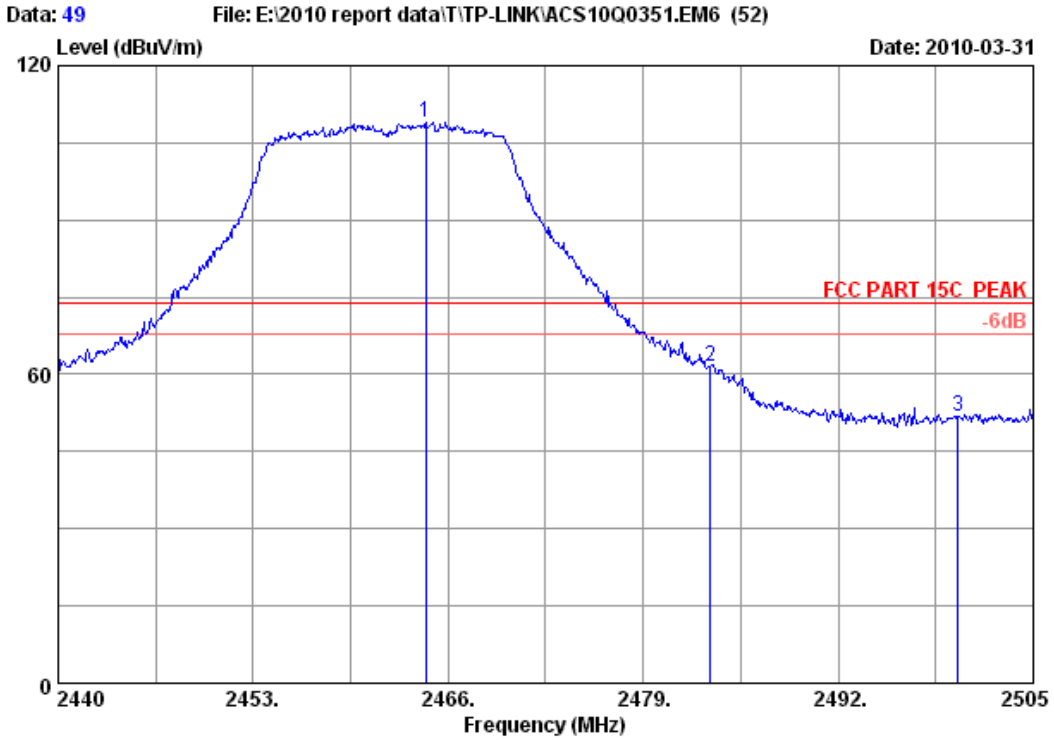

Site no. : 3m Chamber Data no. : 49
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.505	29.48	8.82	36.02	106.70	108.98	74.00	-34.98	Peak
2	2483.500	29.49	8.87	35.97	59.18	61.57	74.00	12.43	Peak
3	2500.000	29.50	8.92	36.00	49.48	51.90	74.00	22.10	Peak

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

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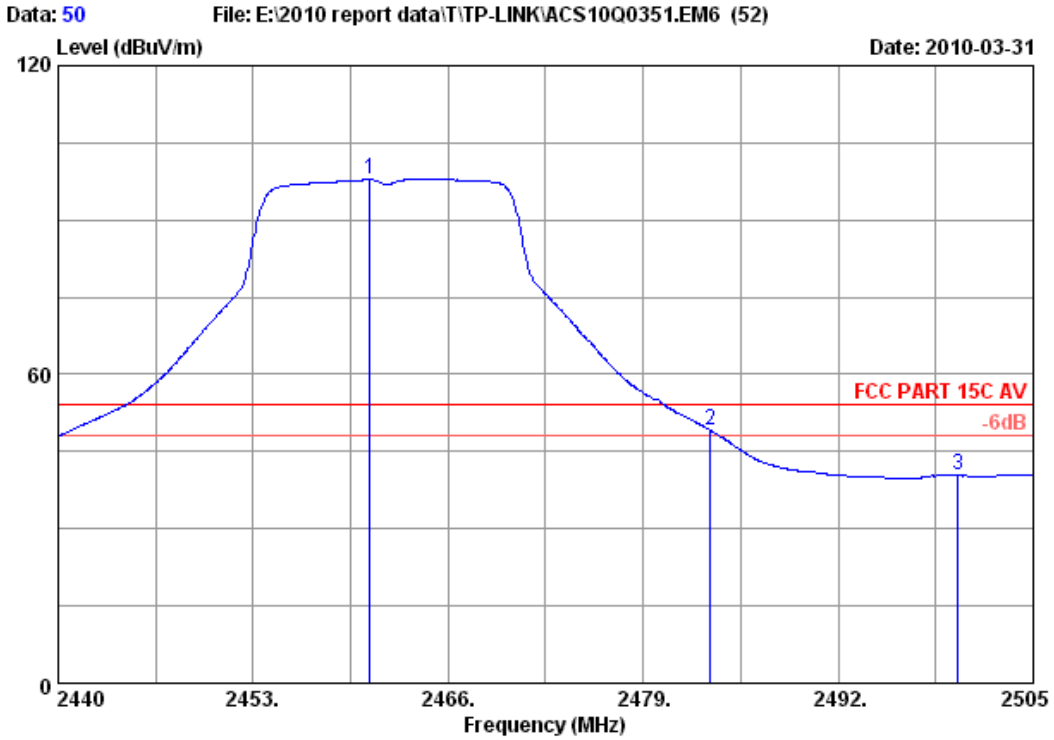

Site no. : 3m Chamber Data no. : 50
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.800	29.48	8.82	36.02	95.69	97.97	54.00	-43.97	Average
2	2483.500	29.49	8.87	35.97	46.71	49.10	54.00	4.90	Average
3	2500.000	29.50	8.92	36.00	37.92	40.34	54.00	13.66	Average

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

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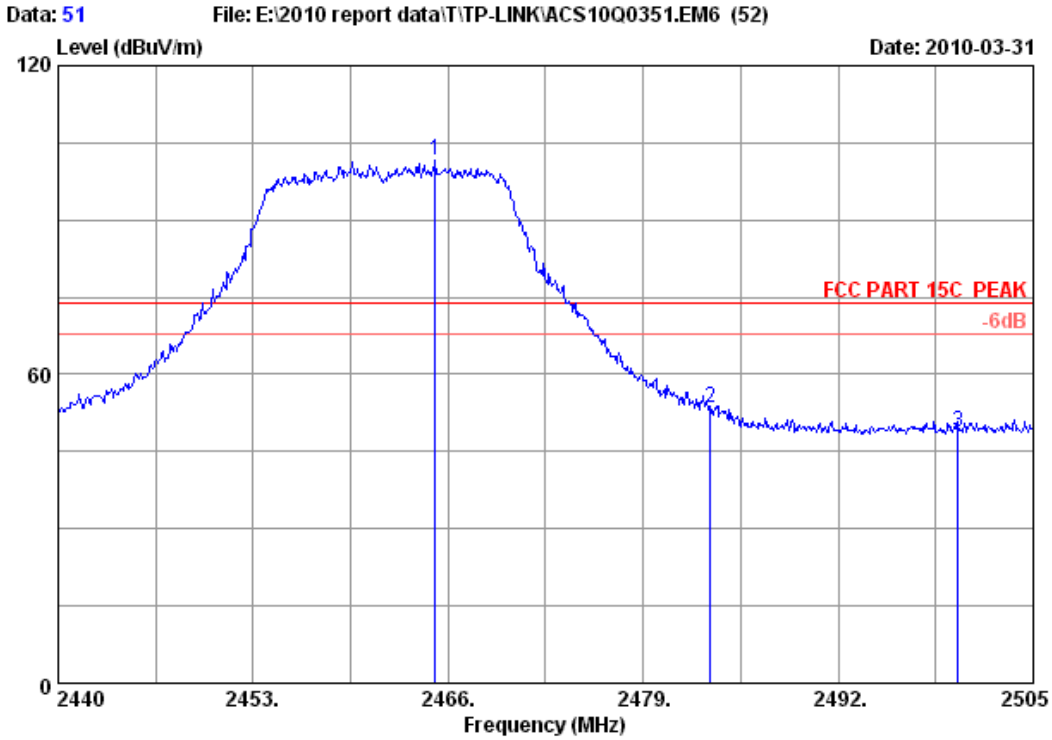

Site no. : 3m Chamber Data no. : 51
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : TL-WN360G

	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	2465.155	29.48	8.82	36.02	99.26	101.54	74.00	-27.54	Peak
2	2483.500	29.49	8.87	35.97	51.05	53.44	74.00	20.56	Peak
3	2500.000	29.50	8.92	36.00	46.26	48.68	74.00	25.32	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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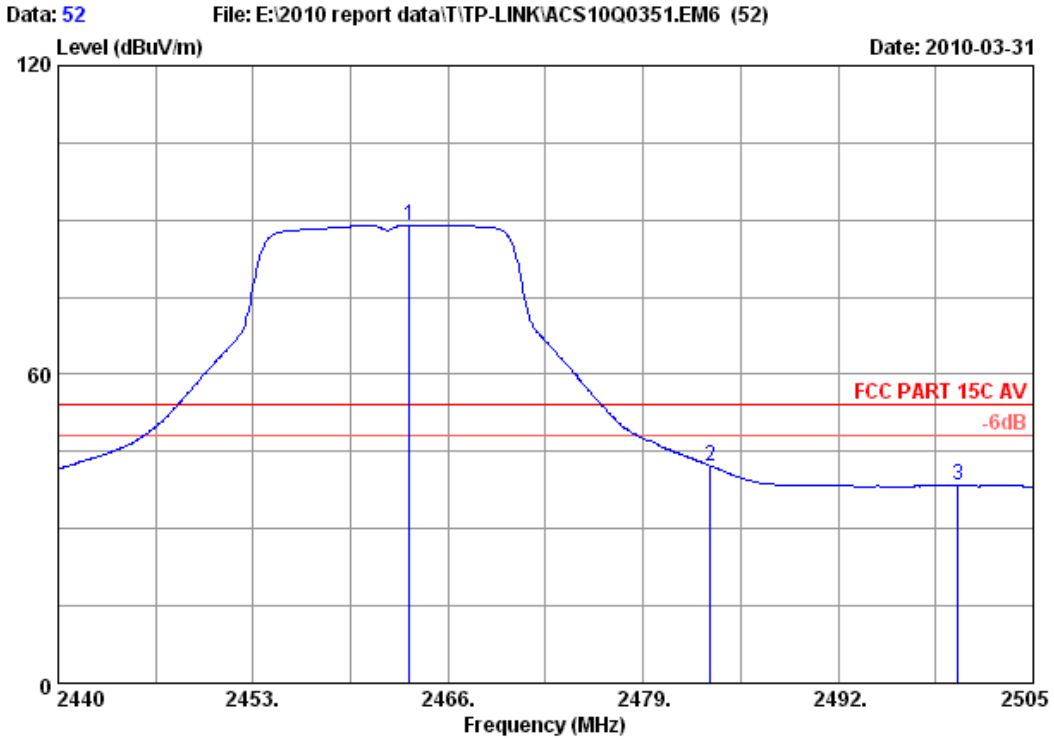
Postcode:518057



Site no. : 3m Chamber Data no. : 52
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless Mini PCI Adapter
Power : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : TL-WN360G

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.400	29.48	8.82	36.02	86.75	89.03	54.00	-35.03	Average
2	2483.500	29.49	8.87	35.97	39.81	42.20	54.00	11.80	Average
3	2500.000	29.50	8.92	36.00	35.91	38.33	54.00	15.67	Average

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

7. 6dB Bandwidth Test

7.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 09	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May.08, 09	1Year

7.2.Limit

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

7.3.Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 120kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4.Test Results

Chain 1:

Test Mode: IEEE 802.11b TX

CH	6dB Bandwidth (MHz)	Limit	**Conclusion**
1	12.107	>500	**PASS**
6	12.102	>500	**PASS**
11	12.096	>500	**PASS**

Test Mode: IEEE 802.11g TX

CH	6dB Bandwidth (MHz)	Limit	**Conclusion**
1	16.017	>500	**PASS**
6	15.722	>500	**PASS**
11	16.462	>500	**PASS**

Chain 2:

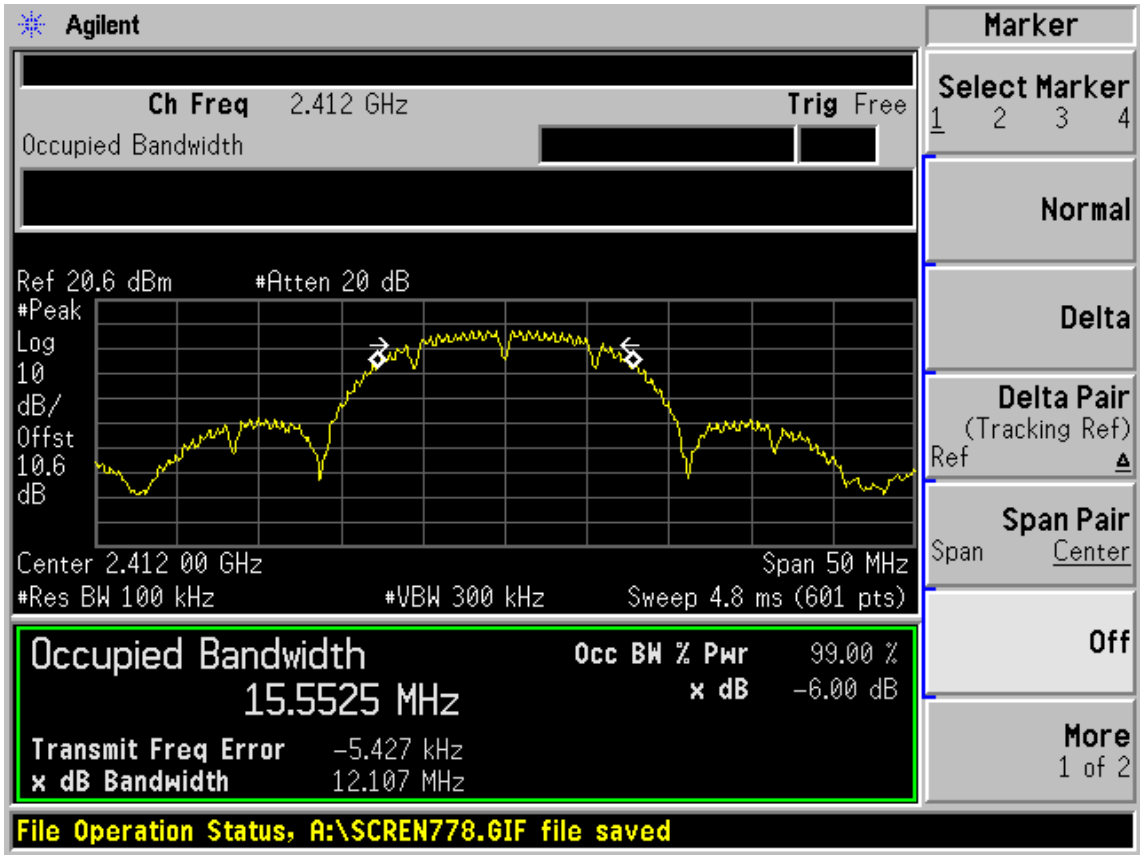
Test Mode: IEEE 802.11b TX

CH	6dB Bandwidth (MHz)	Limit	**Conclusion**
1	12.080	>500	**PASS**
6	12.110	>500	**PASS**
11	12.076	>500	**PASS**

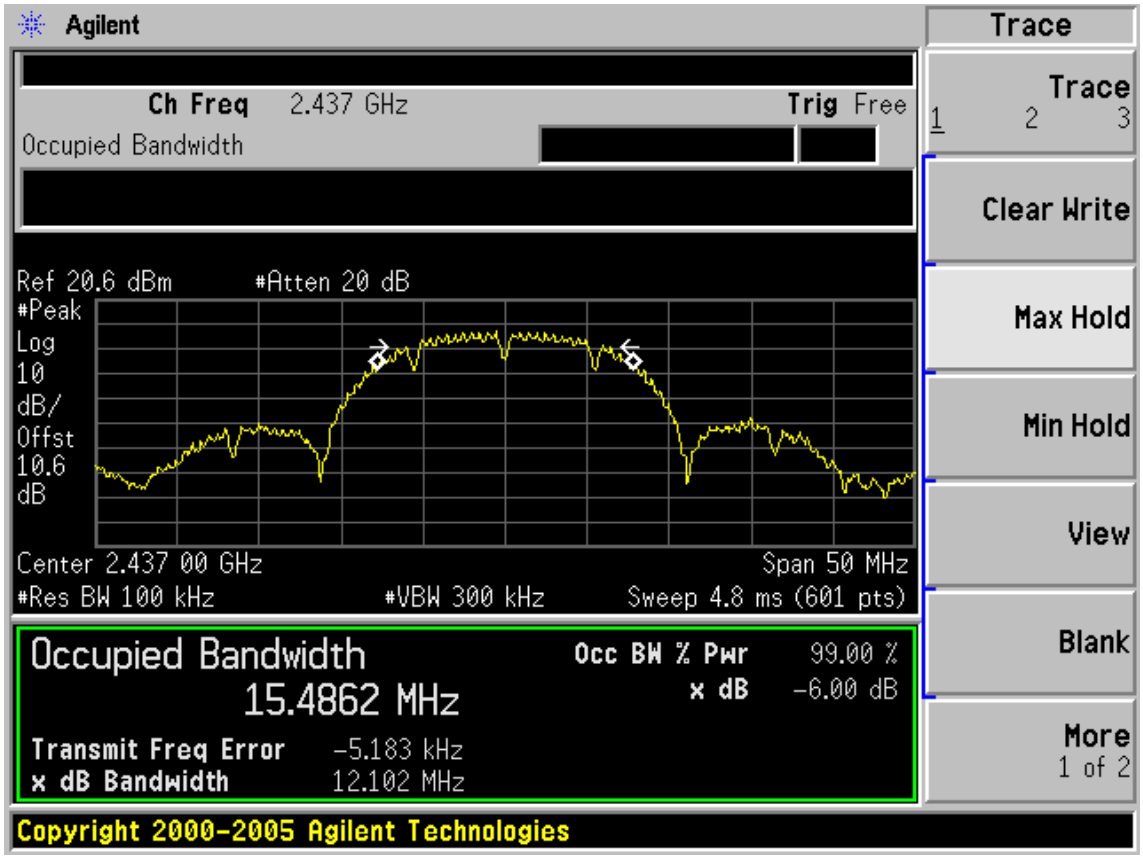
Test Mode: IEEE 802.11g TX

CH	6dB Bandwidth (MHz)	Limit	**Conclusion**
1	16.119	>500	**PASS**
6	16.148	>500	**PASS**
11	16.370	>500	**PASS**

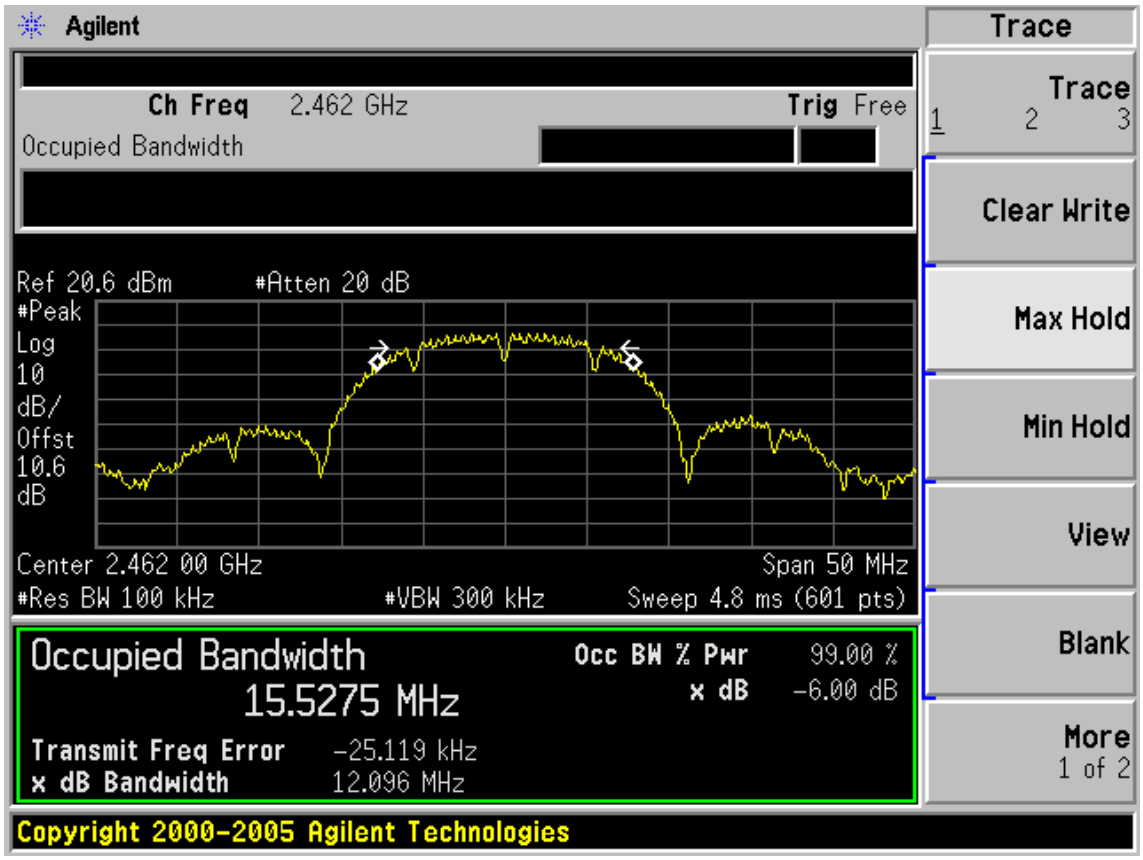
Chain 1:
Test Mode: IEEE 802.11b TX
Test CH1: 2412MHz



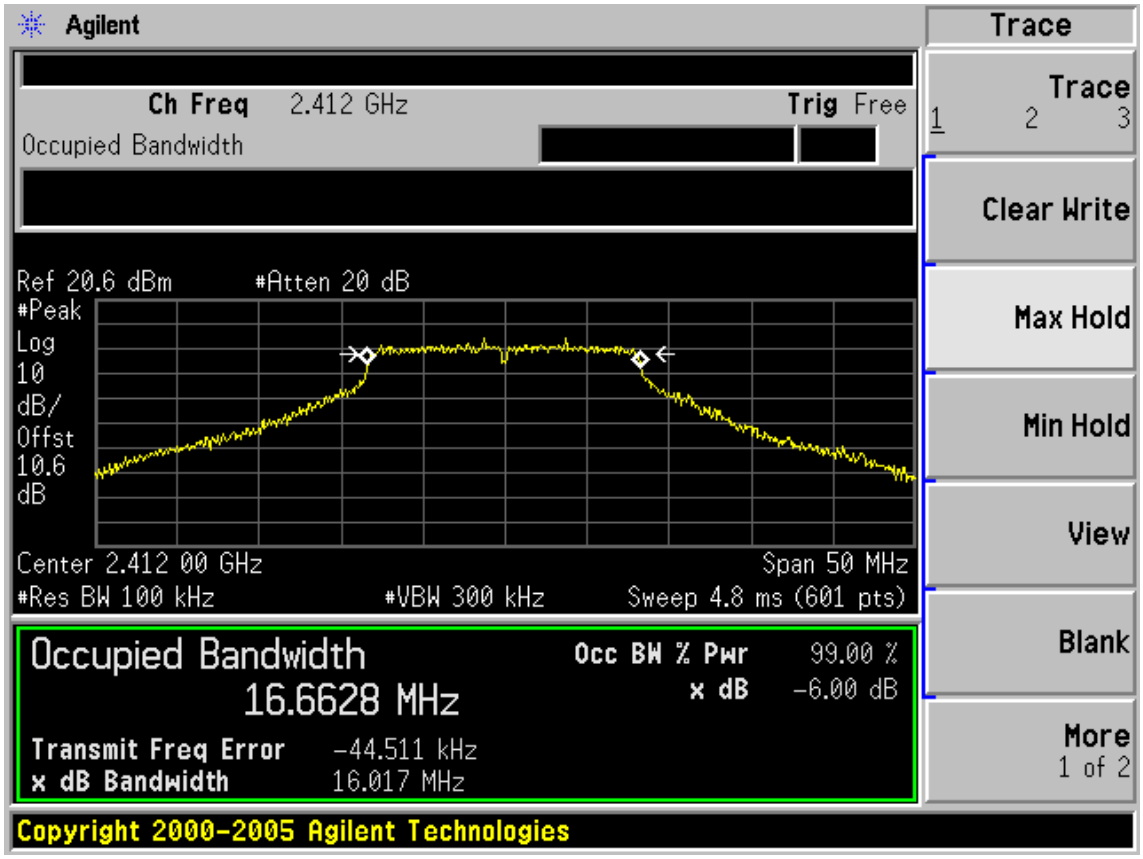
Test CH6: 2437MHz



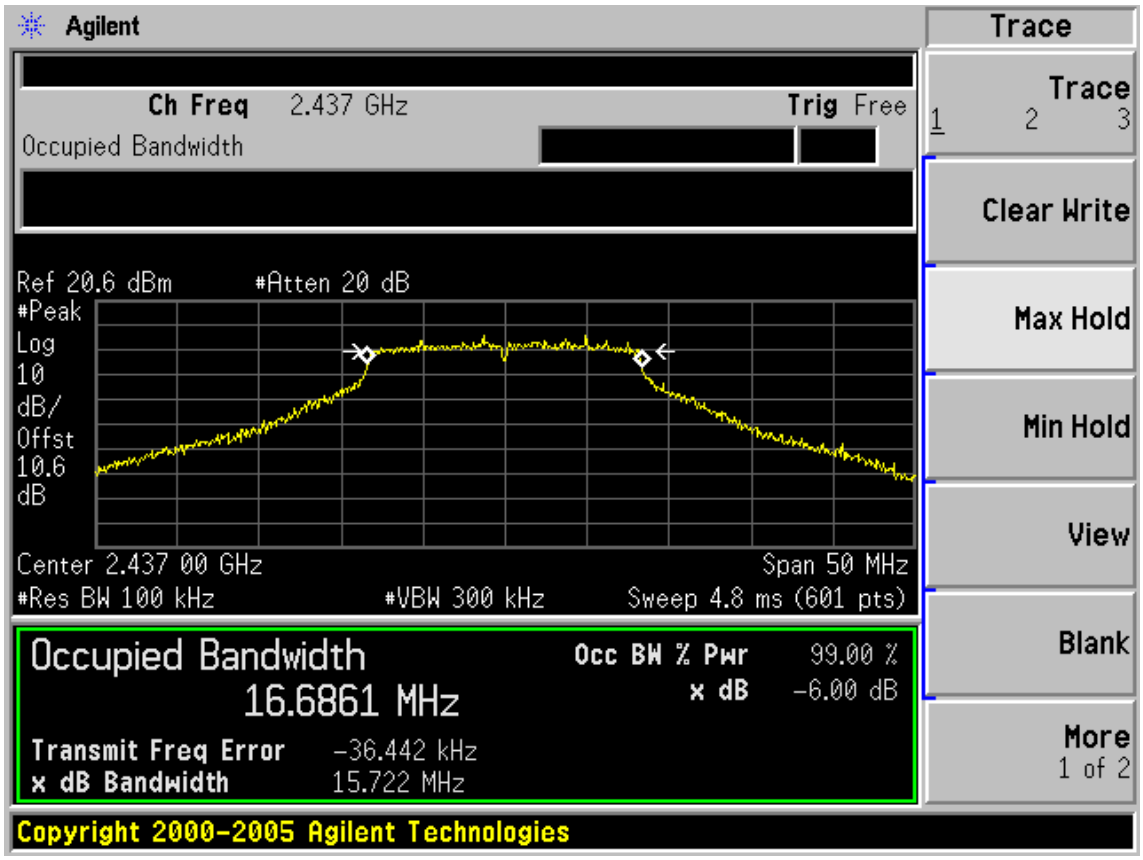
Test CH11: 2462MHz



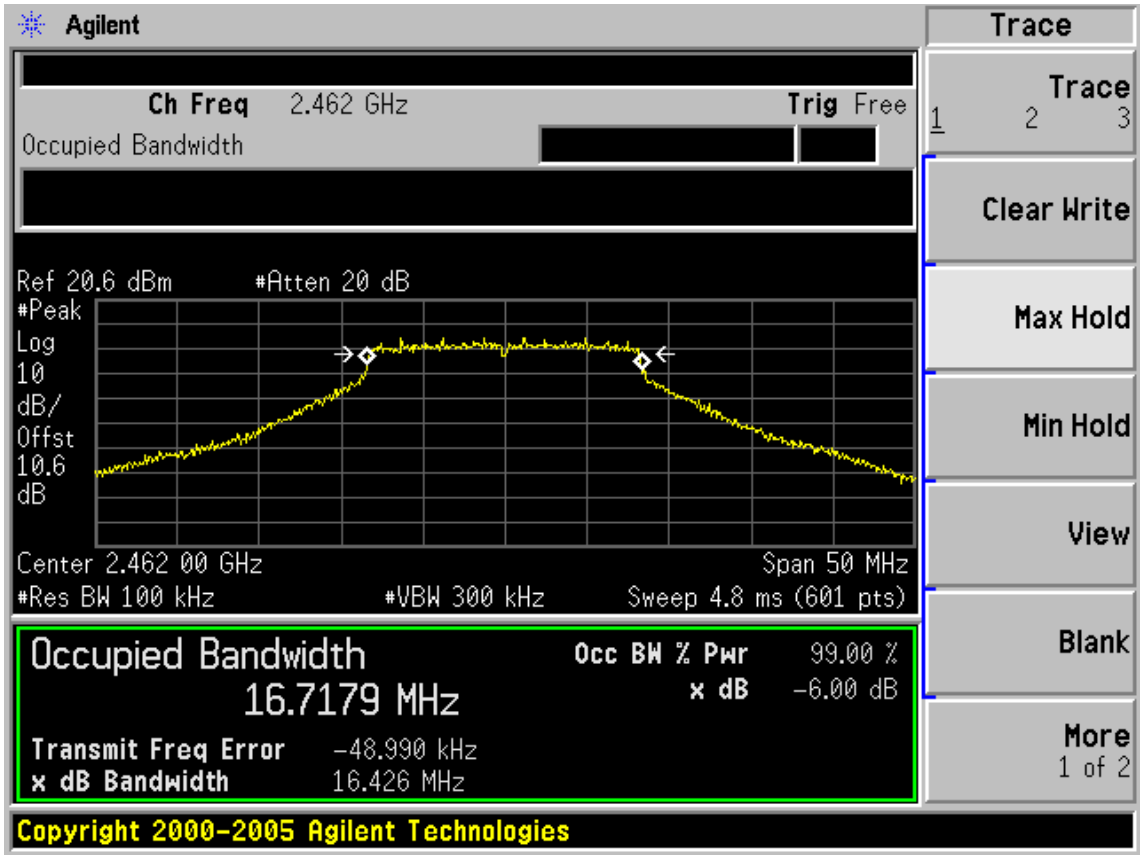
Test Mode: IEEE 802.11g TX
Test CH1: 2412MHz



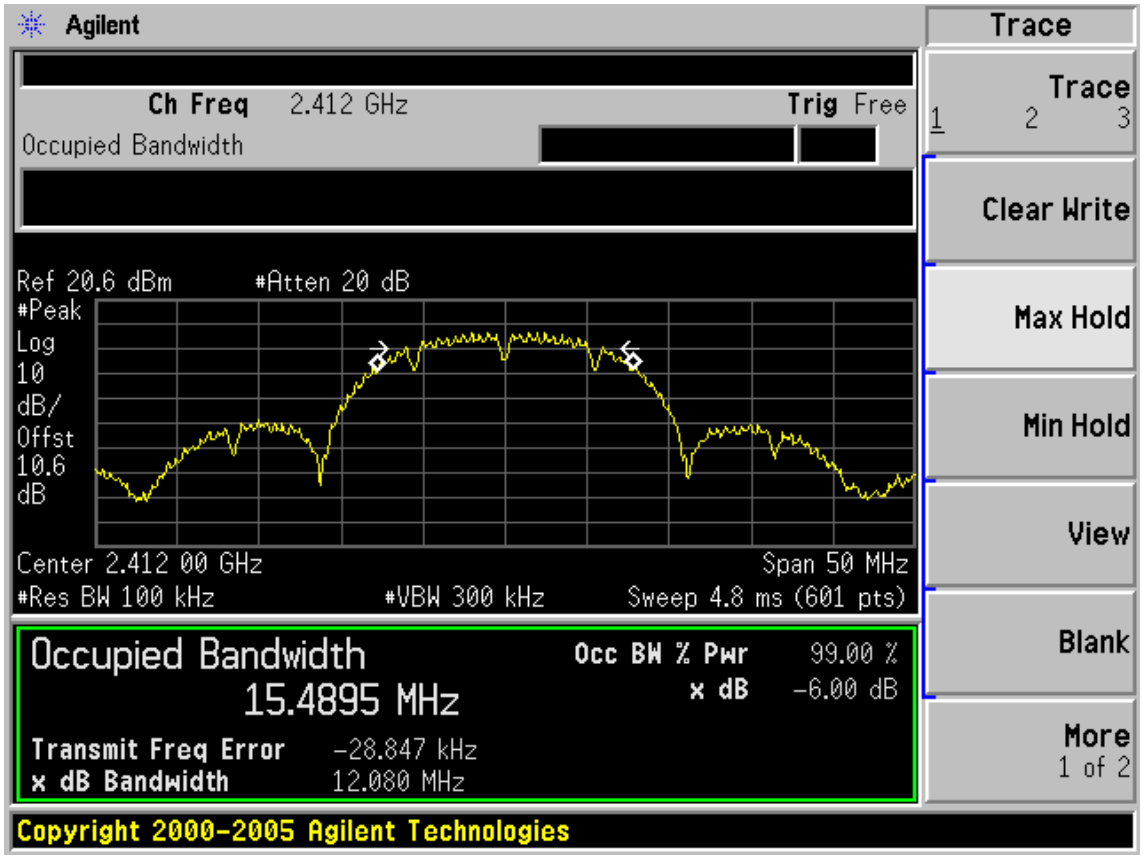
Test CH6: 2437MHz



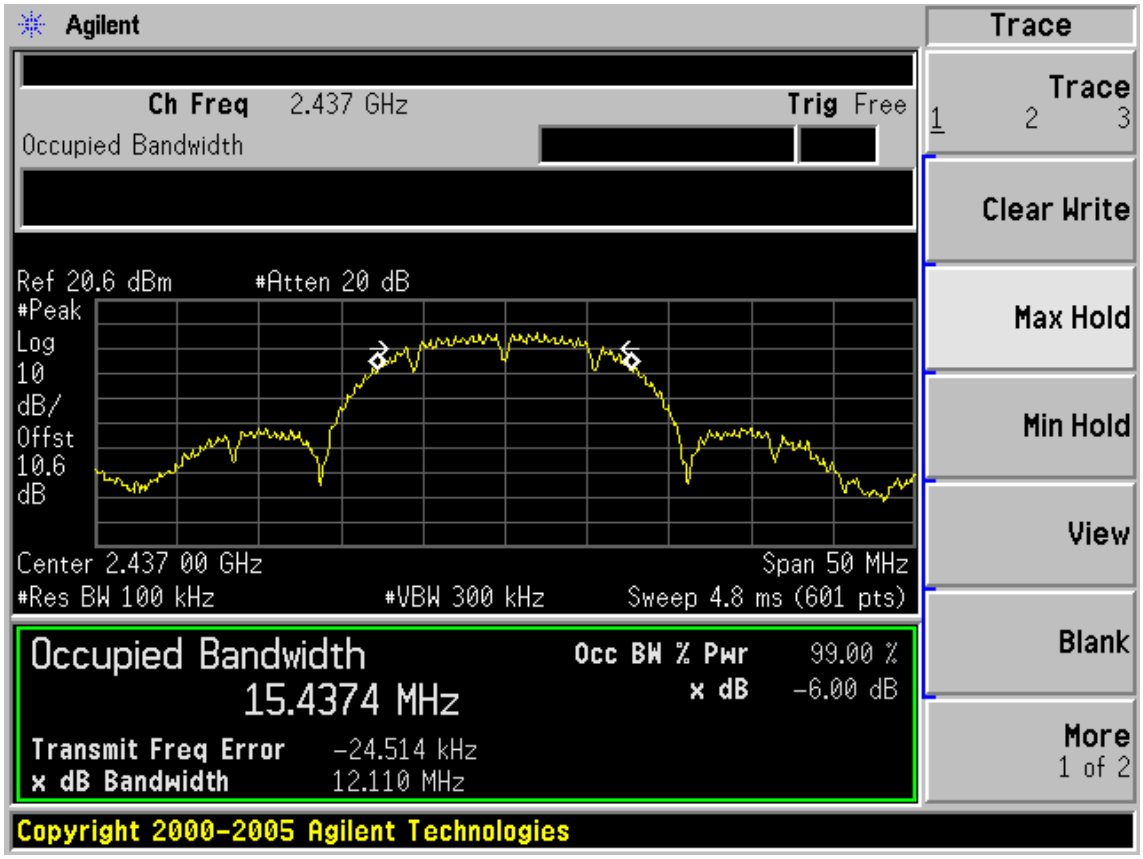
Test CH11: 2462MHz



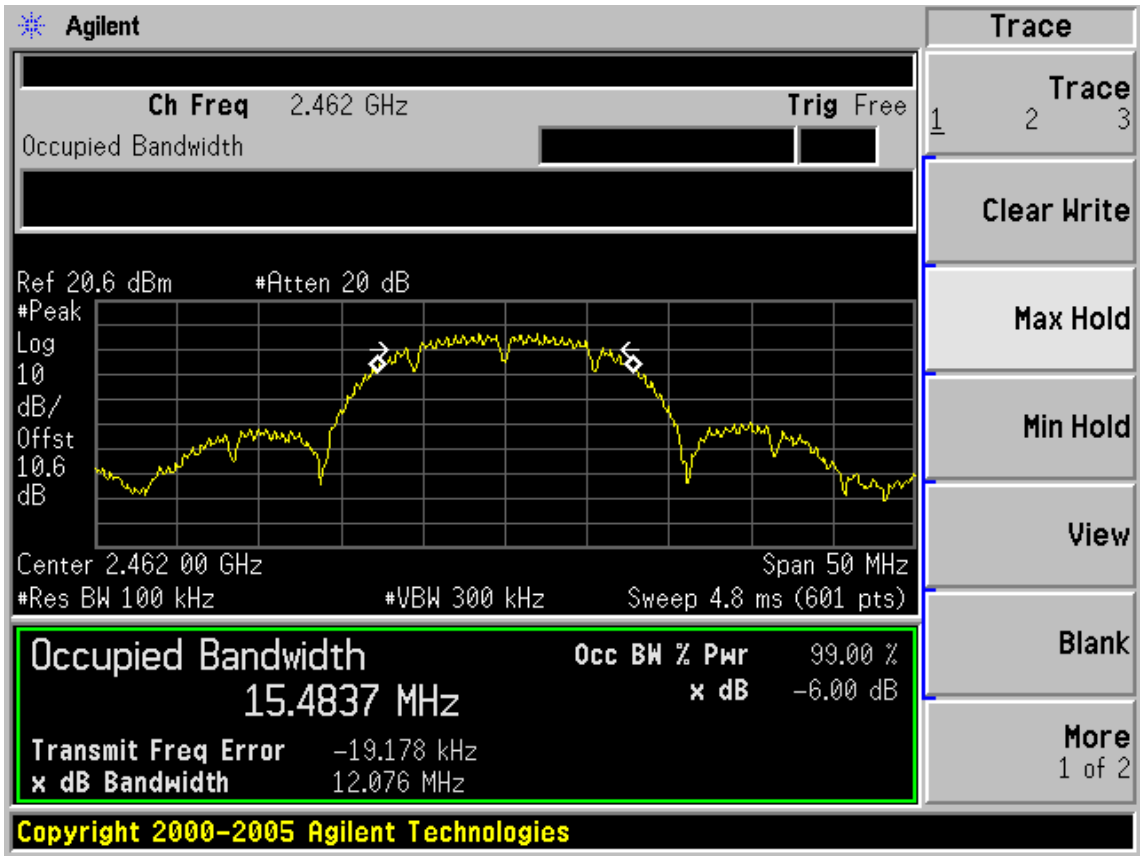
Chain 2:
Test Mode: IEEE 802.11b TX
Test CH1: 2412MHz



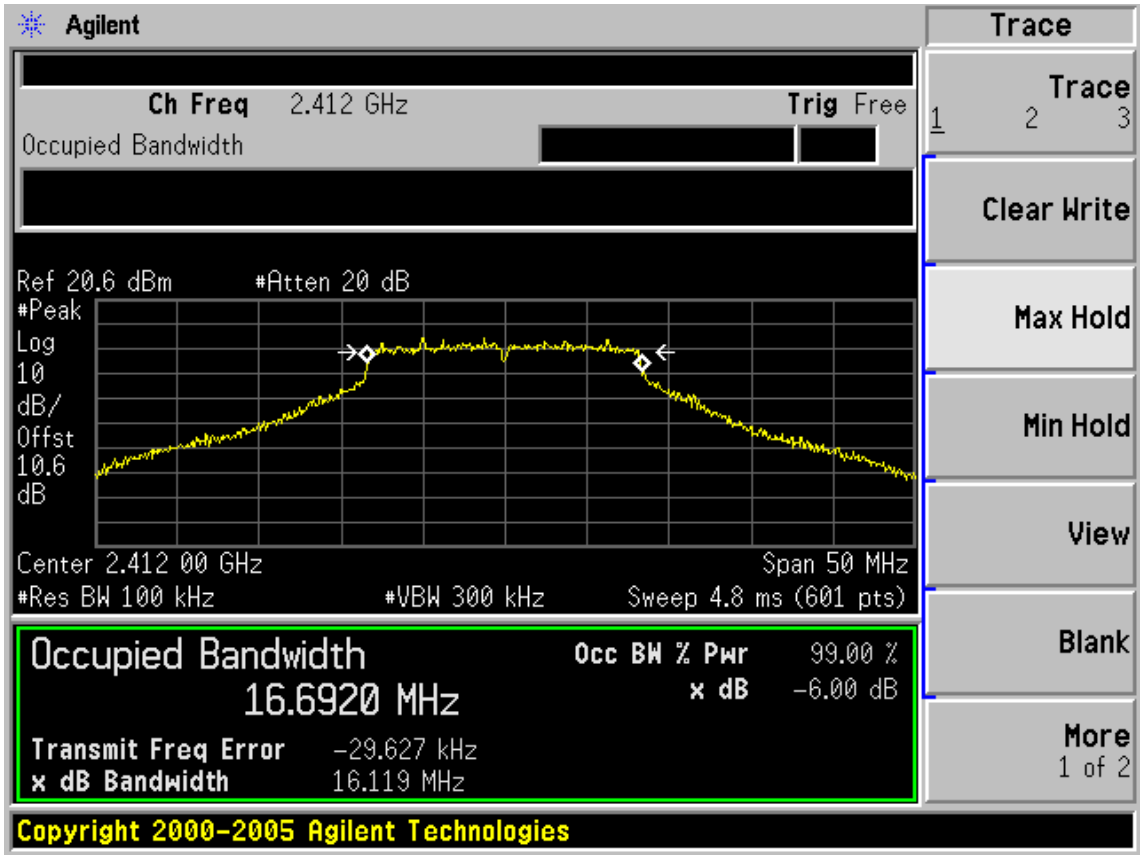
Test CH6: 2437MHz



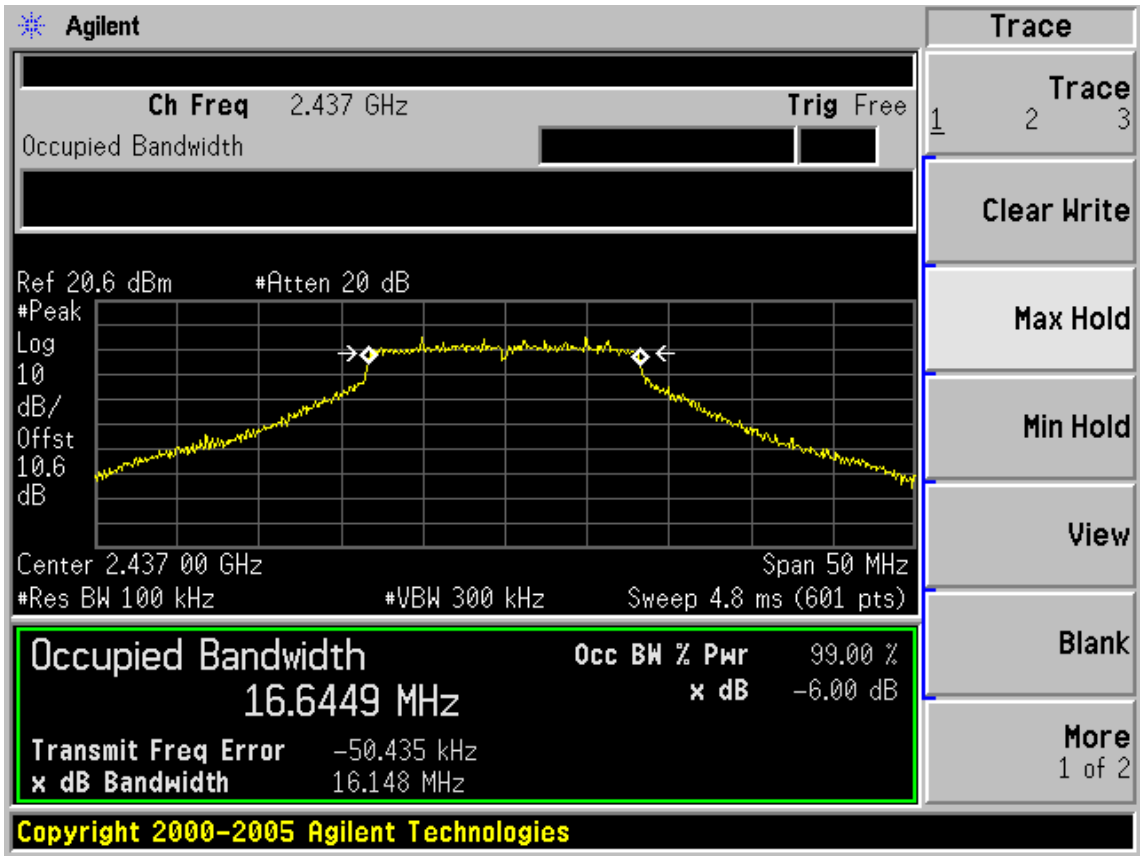
Test CH11: 2462MHz



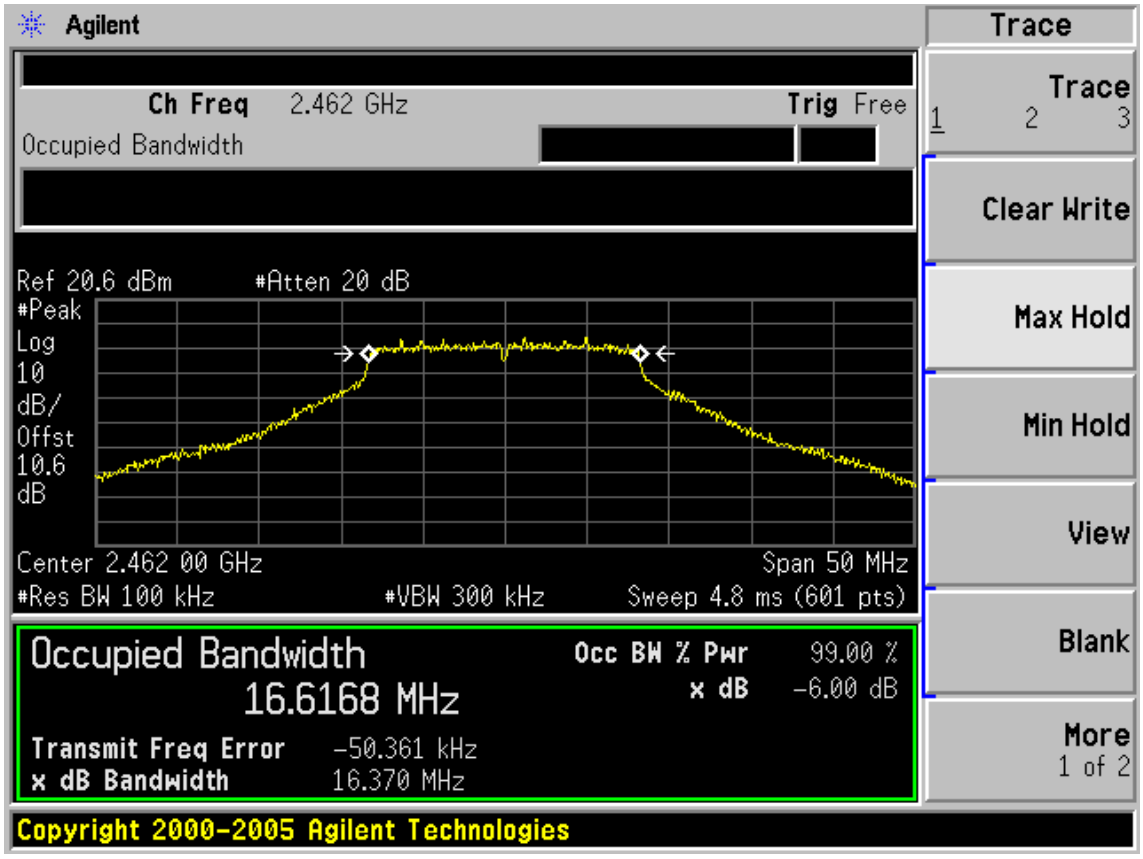
Test Mode: IEEE 802.11g TX
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



8. OUTPUT POWER TEST

8.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2	Power meter	Anritsu	ML2487A	6K00002472	Oct.20.09	1Year
3	Power sensor	Anritsu	MA2491A	0033005	Oct.20.09	1Year
4	Attenuator	Agilent	8491B	MY39262165	May.08, 09	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May.08, 09	1Year

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

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

8.3.Test Procedure

The peak output power of device was measured by a peak power meter with bandwidth above 6dB bandwidth of signal.

8.4.Test Results

EUT:54Mbps Wireless Mini PCI Adapter		
M/N:TL-WN360G		
Test date:2010-03-31	Pressure:100.6 kpa	Humidity:60%
Tested by: Sunny lu	Test site: RF site	Temperature：25℃

Cable loss:0.6dB		Attenuator loss: 10dB		Antenna Gain: 2.0dBi	
Test Mode	CH	Result			Limit (dBm)
		Chain1 Peak output power (dBm)	Chain2 Peak output power (dBm)	Total Peak output Power （dBm）	
11b	CH1	17.88	17.74	N/A	30
	CH6	18.21	18.03	N/A	30
	CH11	18.32	18.02	N/A	30
11g	CH1	21.64	21.42	N/A	30
	CH6	24.53	24.27	N/A	30
	CH11	23.85	23.68	N/A	30
Conclusion：PASS					

9. POWER SPECTRAL DENSITY TEST

9.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 09	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX 102	28618/1	May.08, 09	1Year

9.2.Limit

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

9.3.Test Procedure

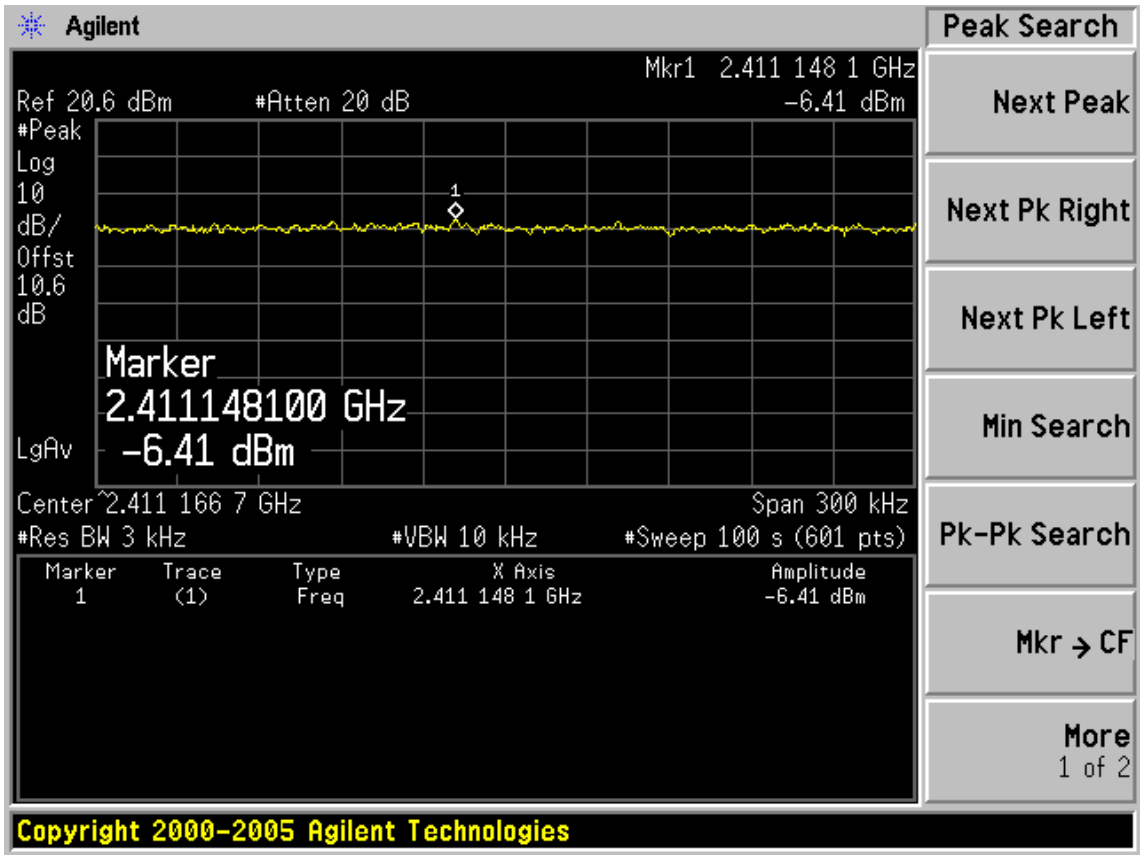
The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 3kHz RBW and 30kHz VBW, sweep time=span/3kHz.

9.4.Test Results

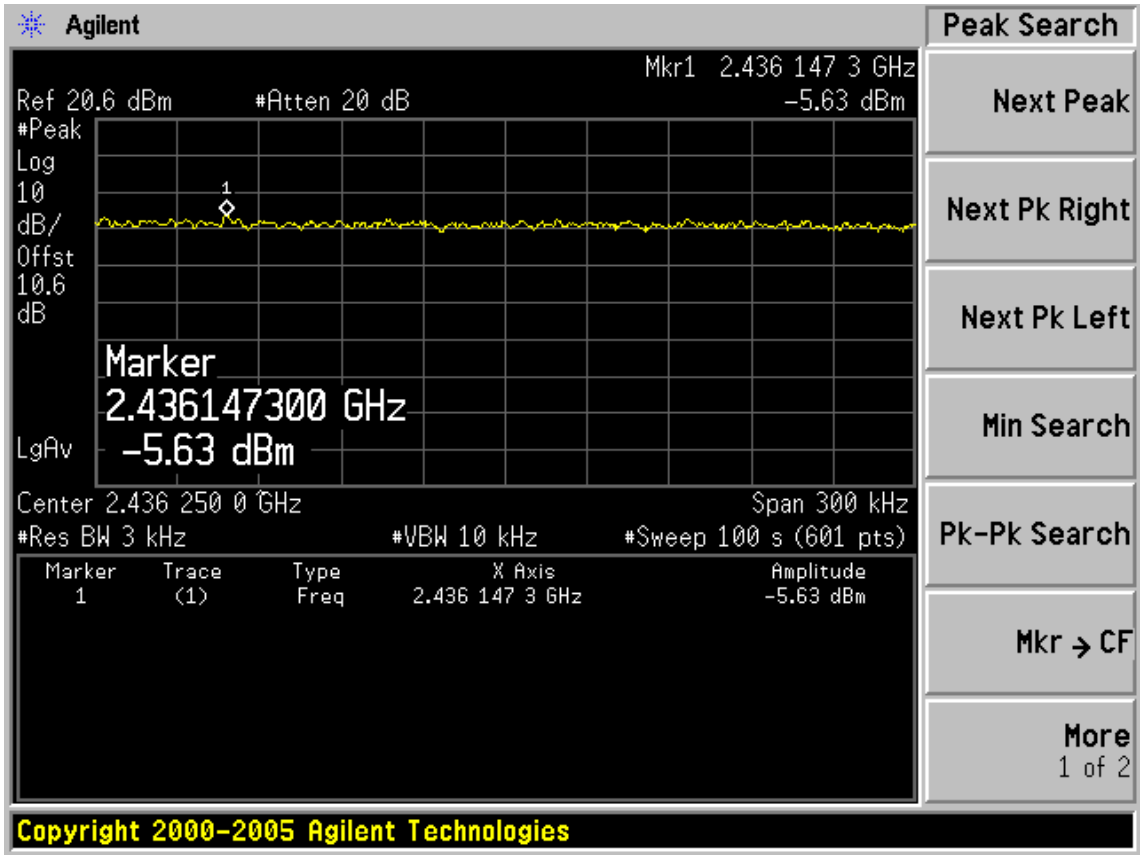
EUT:54Mbps Wireless Mini PCI Adapter		
M/N: TL-WN360G		
Test date:2010-03-31	Pressure:100.6kpa	Humidity:60%
Tested by: Sunny lu	Test site: RF site	Temperature：25℃

Cable loss:0.6dB		Attenuator loss: 10dB		Antenna Gain: 2.0dBi	
Mode	CH	Result			Limit
		Chain1 (dBm/3KHz)	Chain2 (dBm/3KHz)	Total (dBm/3KHz)	(dBm/3KHz)
11b	CH1	-6.41	-6.67	N/A	8
	CH6	-5.63	-6.84	N/A	8
	CH11	-6.02	-6.72	N/A	8
11g	CH1	-8.62	-9.08	N/A	8
	CH6	-7.05	-8.33	N/A	8
	CH11	-8.93	-9.96	N/A	8
Conclusion: PASS					

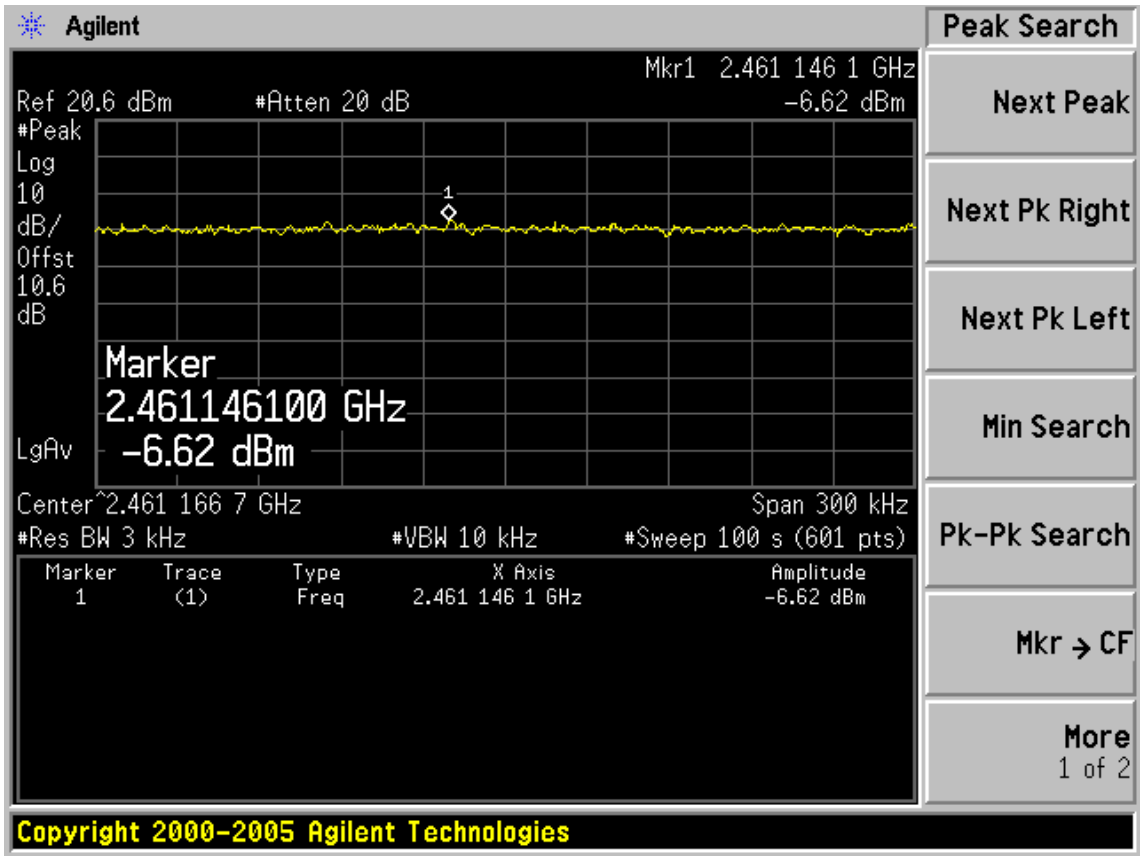
Chain 1:
Test Mode: IEEE 802.11b TX
Test CH1: 2412MHz



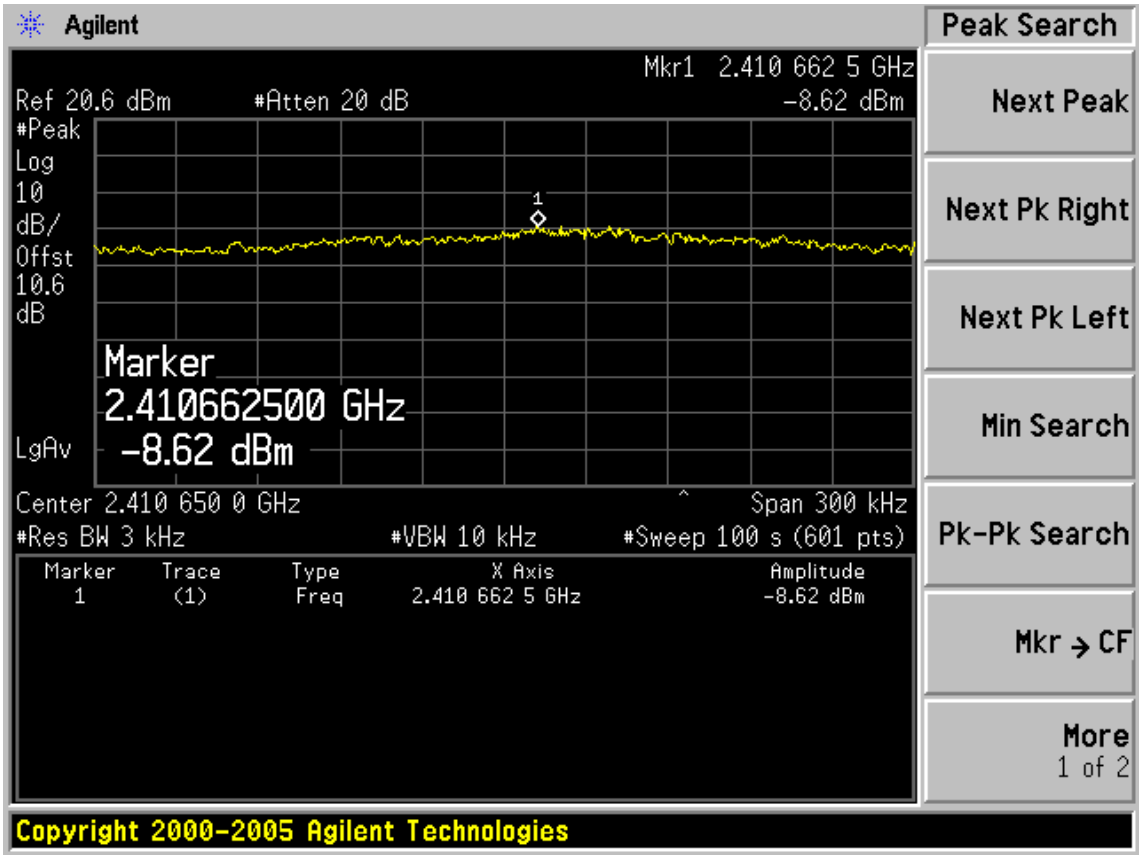
Test CH6: 2437MHz



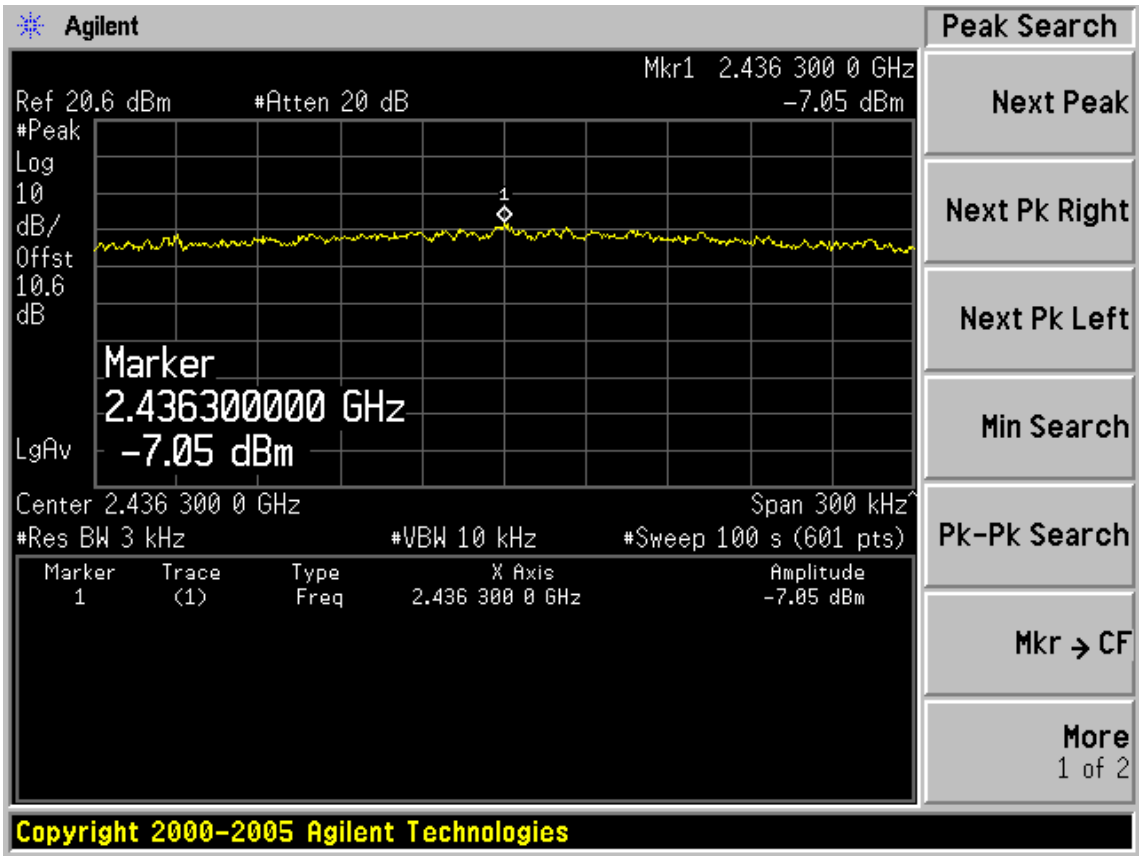
Test CH11: 2462MHz



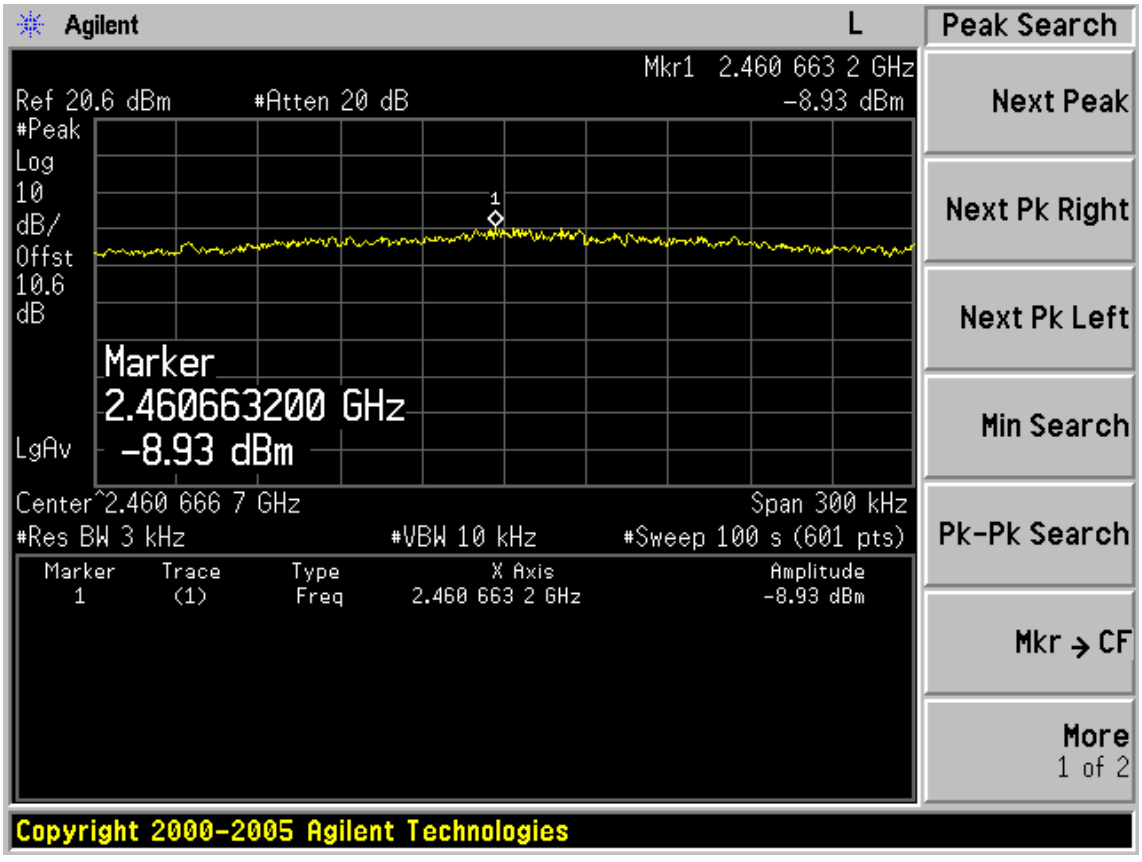
Test Mode: IEEE 802.11g TX
Test CH1: 2412MHz



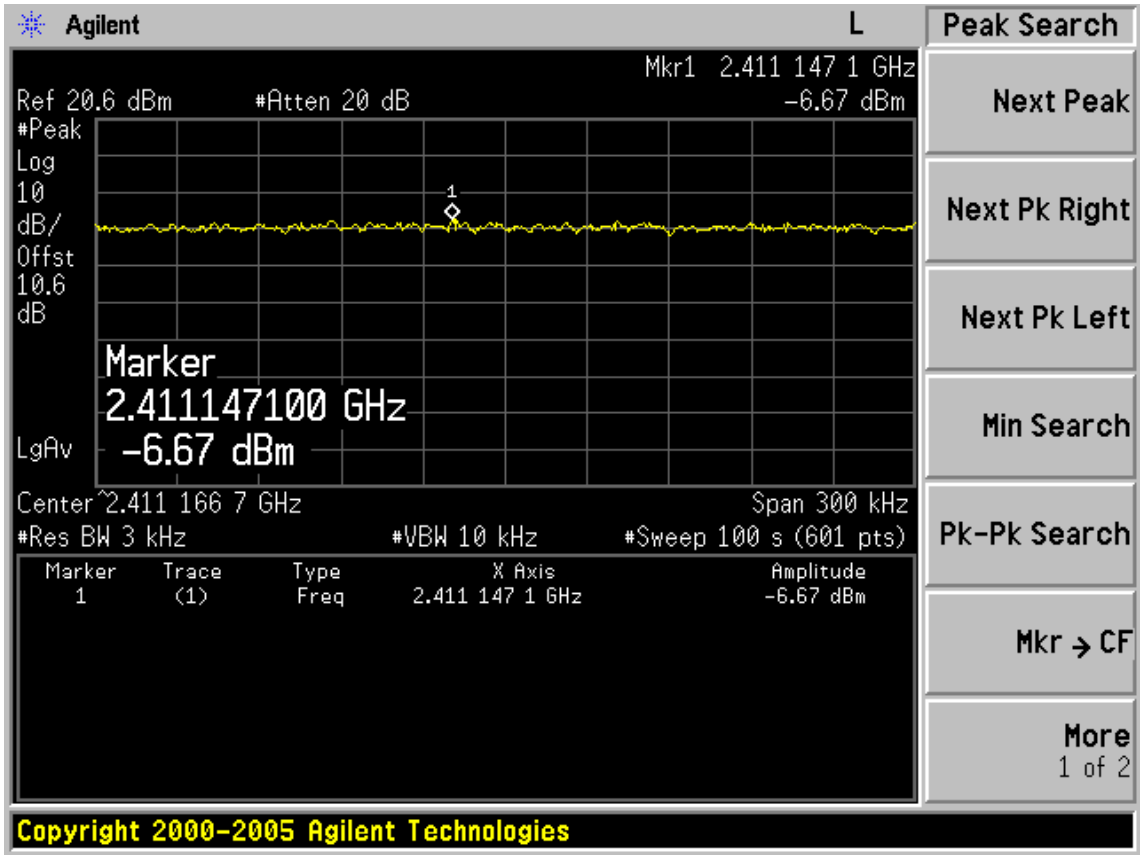
Test CH6: 2437MHz



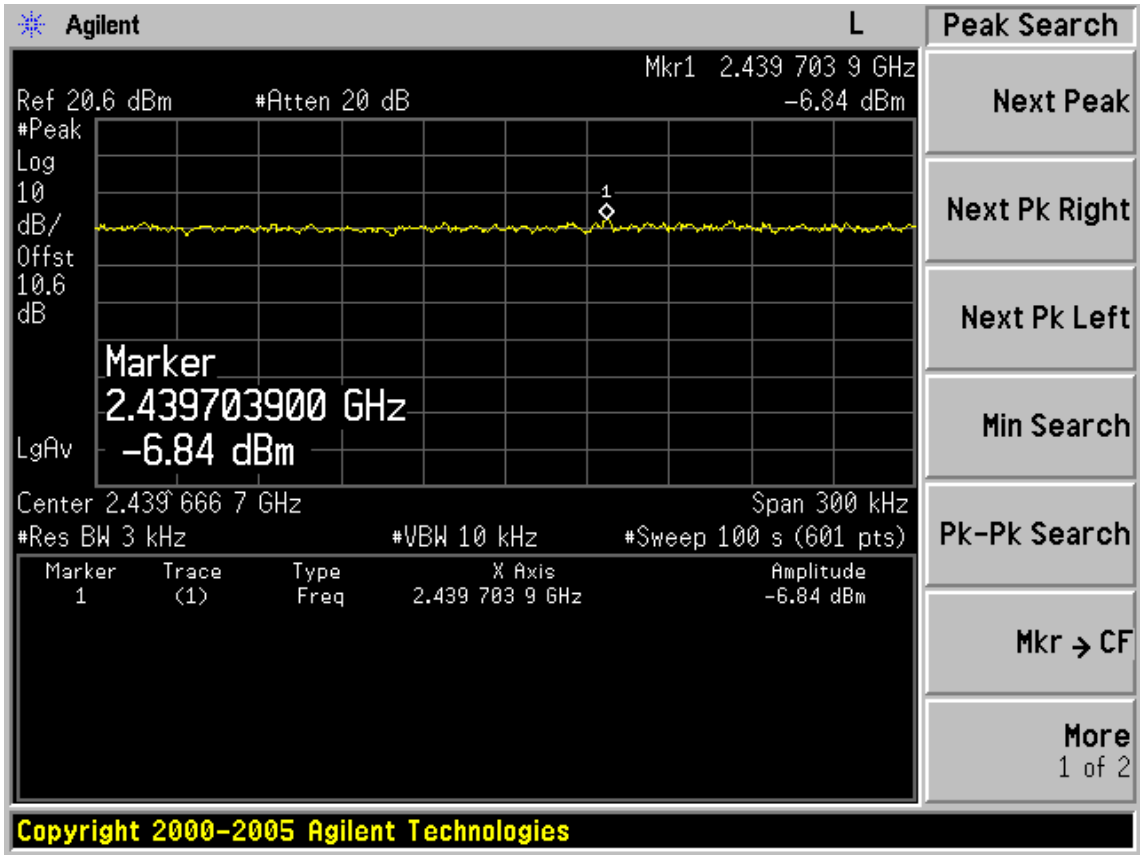
Test CH11: 2462MHz



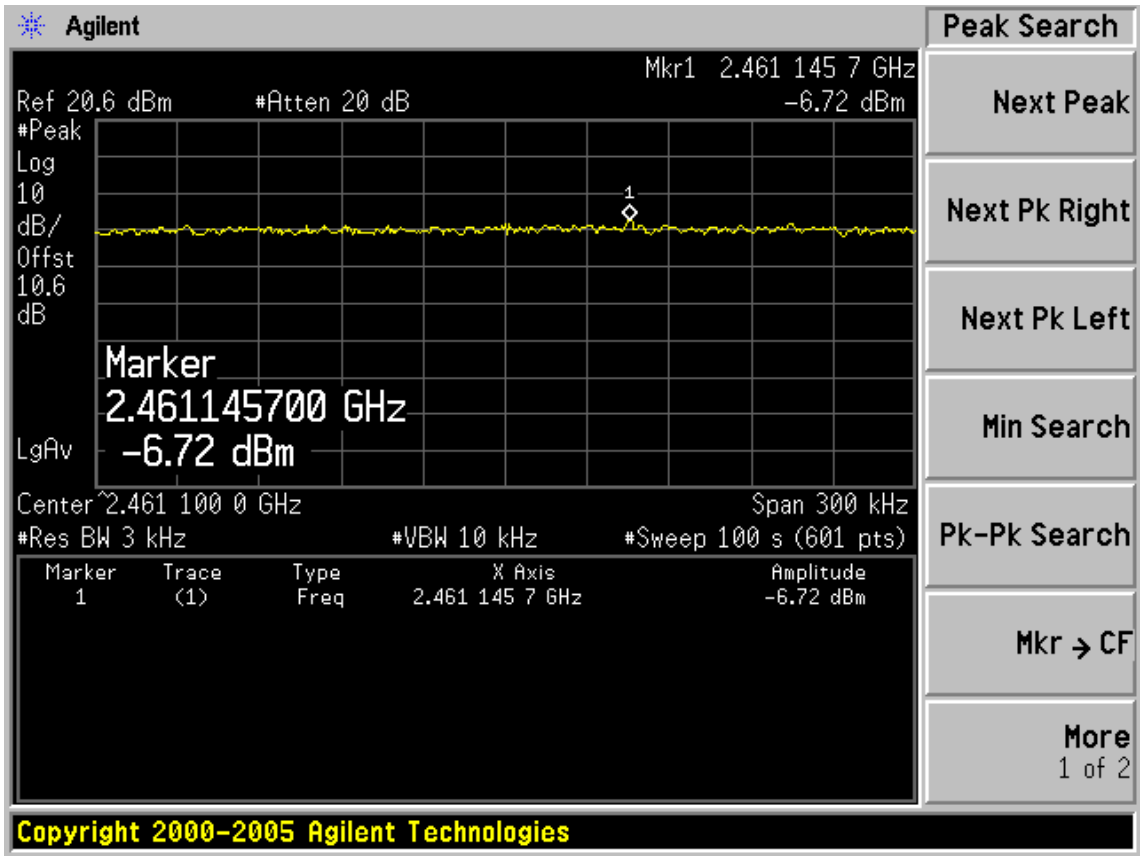
Chain 2:
Test Mode: IEEE 802.11b TX
Test CH1: 2412MHz



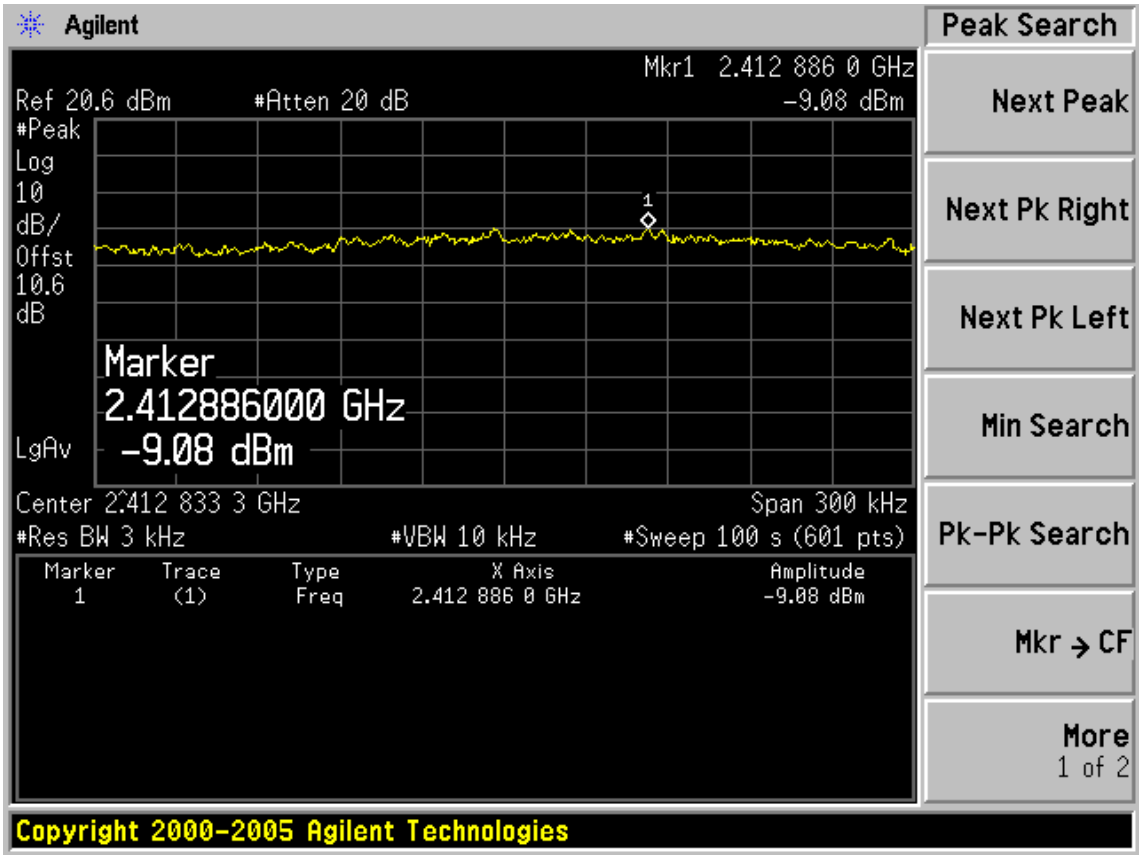
Test CH6: 2437MHz



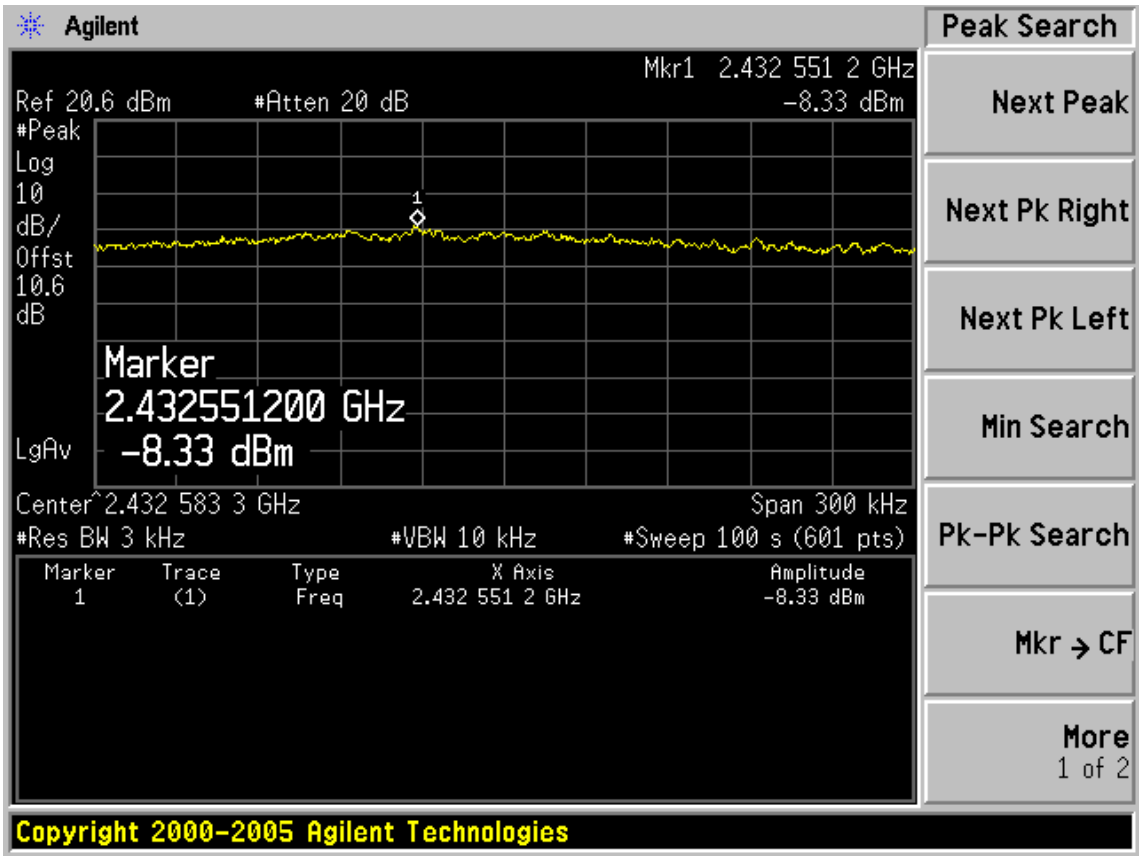
Test CH11: 2462MHz



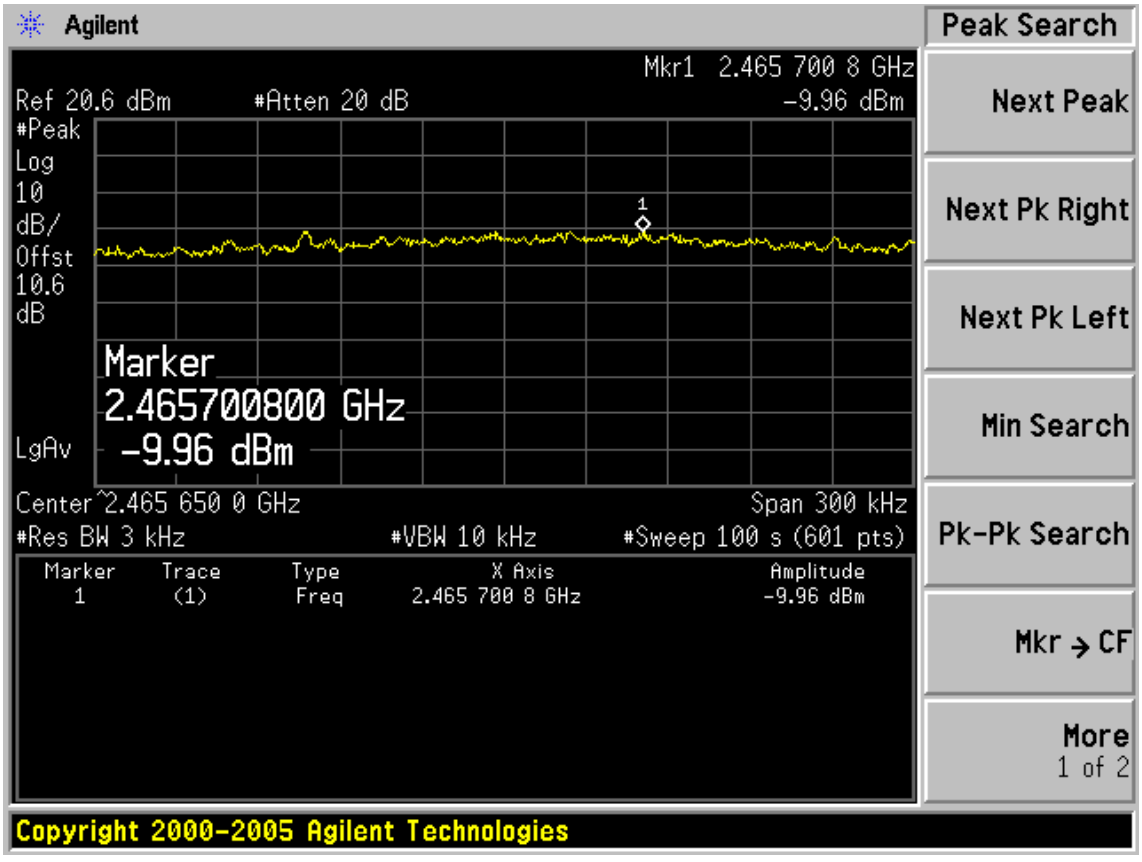
Test Mode: IEEE 802.11g TX
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



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

This device is wireless module with I-PEX antenna connector that no antenna other than that furnished by the responsible party shall be used with the device, a dipole antenna with PK gain 2dBi was used for test.

11.MPE ESTIMATION

11.1.Limit for General Population/ Uncontrolled Exposures

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

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

Note: F= Frequency in MHz

11.2.Estimation Result

Chain 1

Mode	CH	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	Antenna Gain (dBi)	antenna Gain (linear)	MPE
11b	1	2412	17.88	61.38	2	1.58	0.0194
	6	2437	18.21	66.22	2	1.58	0.0209
	11	2462	18.32	67.92	2	1.58	0.0214
11g	1	2412	21.64	145.88	2	1.58	0.0460
	6	2437	24.53	283.79	2	1.58	0.0895
	11	2462	23.85	242.66	2	1.58	0.0766

Chain 2

Mode	CH	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	Antenna Gain (dBi)	antenna Gain (linear)	MPE
11b	1	2412	17.74	59.43	2	1.58	0.0187
	6	2437	18.03	63.53	2	1.58	0.0200
	11	2462	18.02	63.39	2	1.58	0.0200
11g	1	2412	21.42	138.68	2	1.58	0.0437
	6	2437	24.27	267.30	2	1.58	0.0843
	11	2462	23.68	233.35	2	1.58	0.0736

Note: The estimation distance is 20cm

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]