



FCC ID: TE7TDW8101GV3

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

TP-LINK TECHNOLOGIES CO., LTD.

54Mbps Wireless ADSL2+Modem Router

Model No.: TD-W8101G

FCC ID: TE7TDW8101GV3

Prepared for : TP-LINK TECHNOLOGIES CO., LTD.
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TEST REPORT CERTIFICATION

Applicant : TP-LINK TECHNOLOGIES CO., LTD.
Manufacturer : TP-LINK TECHNOLOGIES CO., LTD.
EUT Description : 54Mbps Wireless ADSL2+Modem Router
FCC ID : TE7TDW8101GV3
(A) MODEL NO. : TD-W8101G
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : DC 9V From Adapter Input
AC 230V/50Hz
(D) TEST VOLTAGE : DC 9V from adapter input AC 230V/50Hz

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

Test procedure used:
ANSI C63.10:2009

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

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements.

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

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

Date of Test : Apr.04~06, 2011 Report of date: Apr.07, 2011

Prepared by : Blove Ye Reviewer by : Jamy Yu
Blove Ye / Assistant Jamy Yu / Supervisor

Approved & Authorized Signer :



Ken Lu / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

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

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

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name	:	54Mbps Wireless ADSL2+Modem Router
Model Number	:	TD-W8101G
FCC ID	:	TE7TDW8101GV3
Operation Frequency	:	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 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)
Antenna Assembly Gain	:	Dipole Antenna, 3dBi Peak gain
Applicant	:	TP-LINK TECHNOLOGIES CO., LTD. 1-6F, Building 2, Pingshandayuan Industrial, South Zone, Taoyuan Street, Nanshan District, Shenzhen, P.R.C.
Manufacturer	:	TP-LINK TECHNOLOGIES CO., LTD. 1-6F, Building 2, Pingshandayuan Industrial, South Zone, Taoyuan Street, Nanshan District, Shenzhen, P.R.C.
Adapter	:	Manufacture: TP-LINK TECHNOLOGIES CO., LTD. M/N: T090060-2B1 Unshielded, Undetachable,1.5m
Date of Test	:	Apr.04~06, 2011
Date of Receipt	:	Apr.03, 2011
Sample Type	:	Prototype production

2.2. Test Information

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

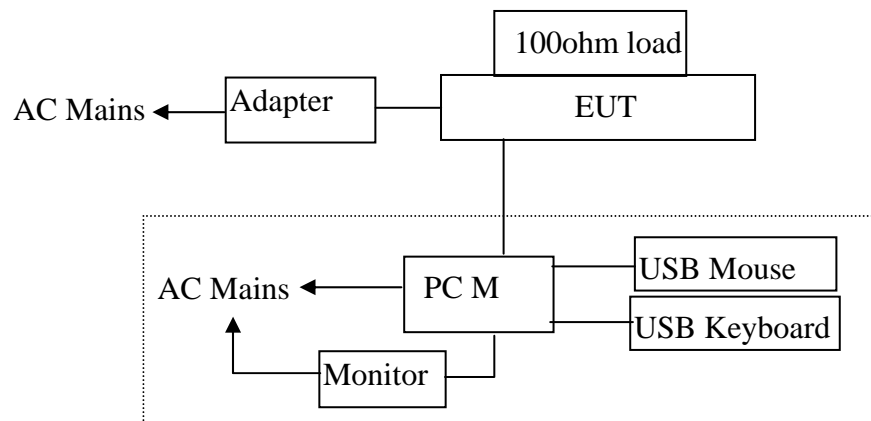
Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	11	Low :CH1	2412
	11	Middle: CH6	2437
	11	High: CH11	2462
IEEE 802.11g	54	Low :CH1	2412
	54	Middle: CH6	2437
	54	High: CH11	2462

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

2.3. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1	Personal Computer	Test PC M	DELL	Studio 540	224XK2X	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID:R33002
		Power Cord: Unshielded, Detachable, 1.8m Display Card: HD3450 (DVI+VGA+HDMI)				
2	USB Keyboard	ACS-EMC- K01R	DELL	SK-8115	CN-ODJ313-7161 6-711-0J73	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: T3A002
		Data Cable: shielded, Undetachable, 2.0m				
3	Monitor	ACS-EMC-LM02R	DELL	1907FPt	CN-009759-71618 -6CG-BDWW	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: R3A002
		Power Cord: Unshielded, Detachable, 1.8m VGA Cable: Shielded, Detachable, 2.0m (with two cores) DVI Cable: Shielded, Detachable, 2.0m (with two cores)				
4	USB Mouse	ACS-EMC-M01R	DELL	M056UO	512022645	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: R41108
		Data Cable: shielded, Undetachable, 1.8m				

2.4. Block diagram of connection between the EUT and simulators



PC M run test software to control EUT work in Tx mode

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. : Certificated by Industry Canada
Registration Number: IC 5183A-1
Jul. 03, 2009
- : Accredited by DATech, German
Registration Number: DAT-P-091/99-01
Feb. 02, 2009

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

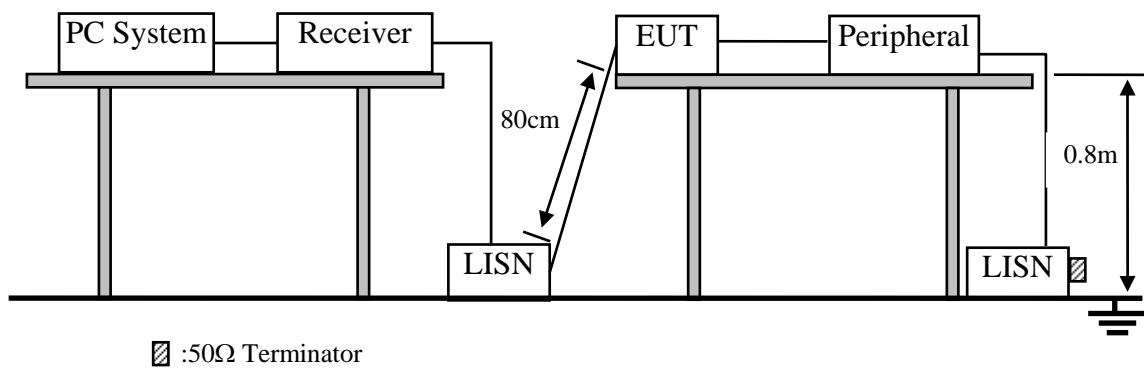
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.64 dB (9kHz to 150kHz)
	3.22 dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	4.20 dB (Polarize: V)
	4.66 dB (Polarize: H)
Uncertainty for Radiated Spurious Emission test in RF chamber	2.70 dB(Bilog antenna 30M~1000MHz)
	2.27 dB(Horn antenna 1000M~12750MHz)
Uncertainty for Conduction Spurious emission test	2.12 dB
Uncertainty for Output power test	0.97 dB
Uncertainty for Power density test	2.21 dB
Uncertainty for Frequency range test	1×10^{-9}
Uncertainty for Bandwidth test	1×10^{-9}
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.3°C
	2%

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

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

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

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

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

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

3.4. Configuration of EUT on Test

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

3.4.1. 54Mbps Wireless ADSL2+Modem Router (EUT)

Model Number : TD-W8101G
Serial Number : N/A

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

3.5. Operating Condition of EUT

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

3.5.2. Turned on the power of all equipment.

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

3.6. Test Procedure

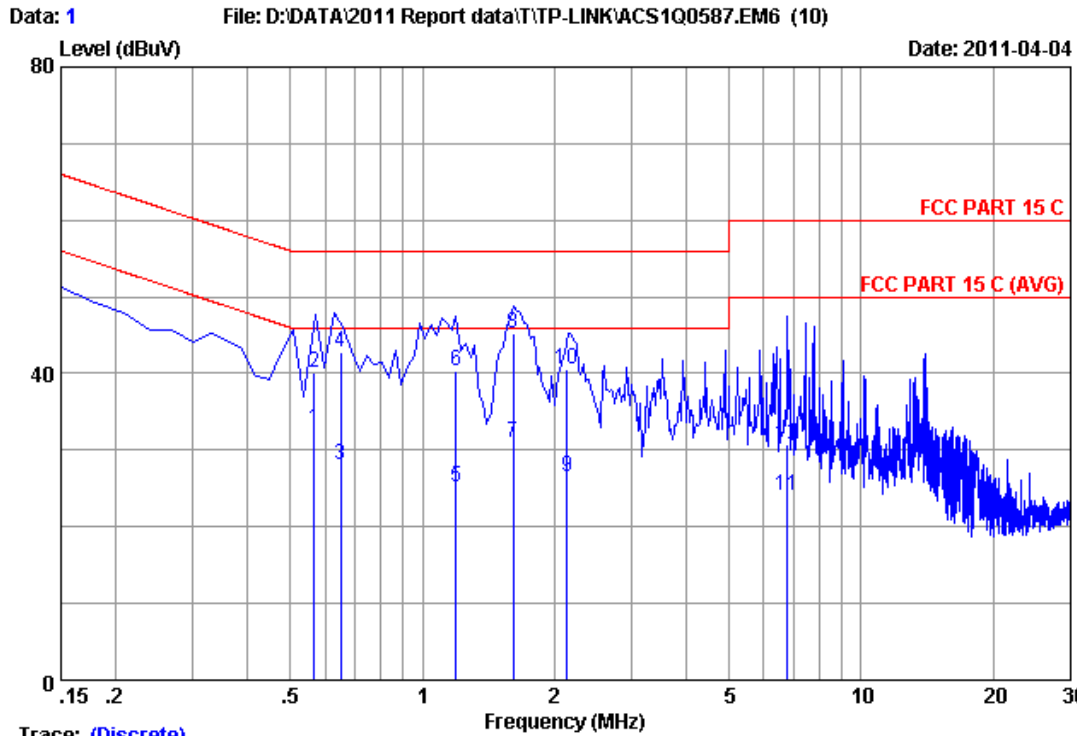
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The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

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

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

3.7. Power Line Conducted Emission Test Results

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

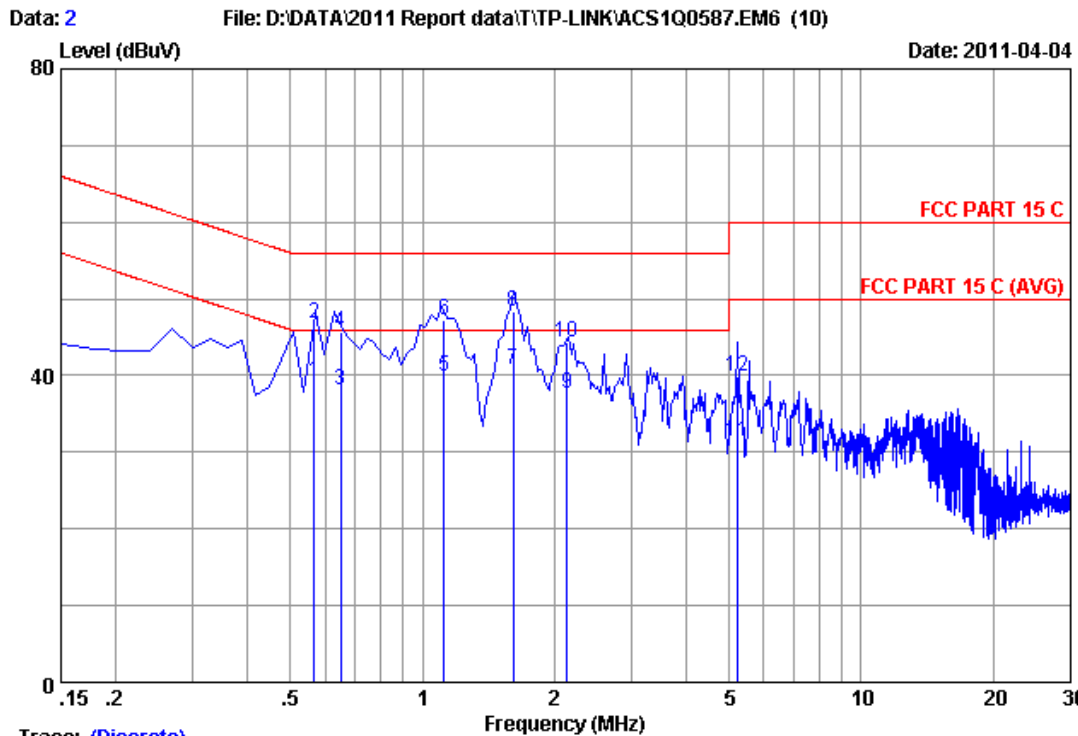


Trace: (Discrete)

Site no :1#conduction Data No :1
 Dis./Ant. :** 2011 ESH2-25 LINE
 Limit :FCC PART 15 C
 Env./Ins. :29.5*C/55% Engineer :Paul Tian
 EUT :54Mbps Wireless ADSL2+Modem Router
 Power Rating :DC 9V From Adapter input AC 120V/60Hz
 Test Mode :Tx Mode
 TD-W8101G

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.56700	0.19	9.88	22.60	32.67	46.00	13.33	Average
2	0.56700	0.19	9.88	30.00	40.07	56.00	15.93	QP
3	0.65200	0.19	9.89	17.90	27.98	46.00	18.02	Average
4	0.65200	0.19	9.89	32.80	42.88	56.00	13.12	QP
5	1.190	0.24	9.89	15.11	25.24	46.00	20.76	Average
6	1.190	0.24	9.89	30.11	40.24	56.00	15.76	QP
7	1.608	0.28	9.90	20.80	30.98	46.00	15.02	Average
8	1.608	0.28	9.90	35.10	45.28	56.00	10.72	QP
9	2.140	0.31	9.91	16.30	26.52	46.00	19.48	Average
10	2.140	0.31	9.91	30.40	40.62	56.00	15.38	QP
11	6.770	0.46	9.96	13.70	24.12	50.00	25.88	Average
12	6.770	0.46	9.96	20.30	30.72	60.00	29.28	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Trace: (Discrete)

Site no :1#conduction Data No :2
 Dis./Ant. **: 2011 ESH2-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :29.5°C/55% Engineer :Paul Tian
 EUT :54Mbps Wireless ADSL2+Modem Router
 Power Rating :DC 9V From Adapter input AC 120V/60Hz
 Test Mode :Tx Mode
 TD-W8101G

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.56600	0.22	9.88	29.21	39.31	46.00	6.69	Average
2	0.56600	0.22	9.88	36.81	46.91	56.00	9.09	QP
3	0.65000	0.23	9.89	28.09	38.21	46.00	7.79	Average
4	0.65000	0.23	9.89	35.59	45.71	56.00	10.29	QP
5	1.120	0.24	9.89	29.71	39.84	46.00	6.16	Average
6	1.120	0.24	9.89	37.21	47.34	56.00	8.66	QP
7	1.609	0.26	9.90	30.70	40.86	46.00	5.14	Average
8	1.609	0.26	9.90	38.20	48.36	56.00	7.64	QP
9	2.140	0.27	9.91	27.40	37.58	46.00	8.42	Average
10	2.140	0.27	9.91	34.10	44.28	56.00	11.72	QP
11	5.220	0.34	9.94	21.10	31.38	50.00	18.62	Average
12	5.220	0.34	9.94	29.50	39.78	60.00	20.22	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

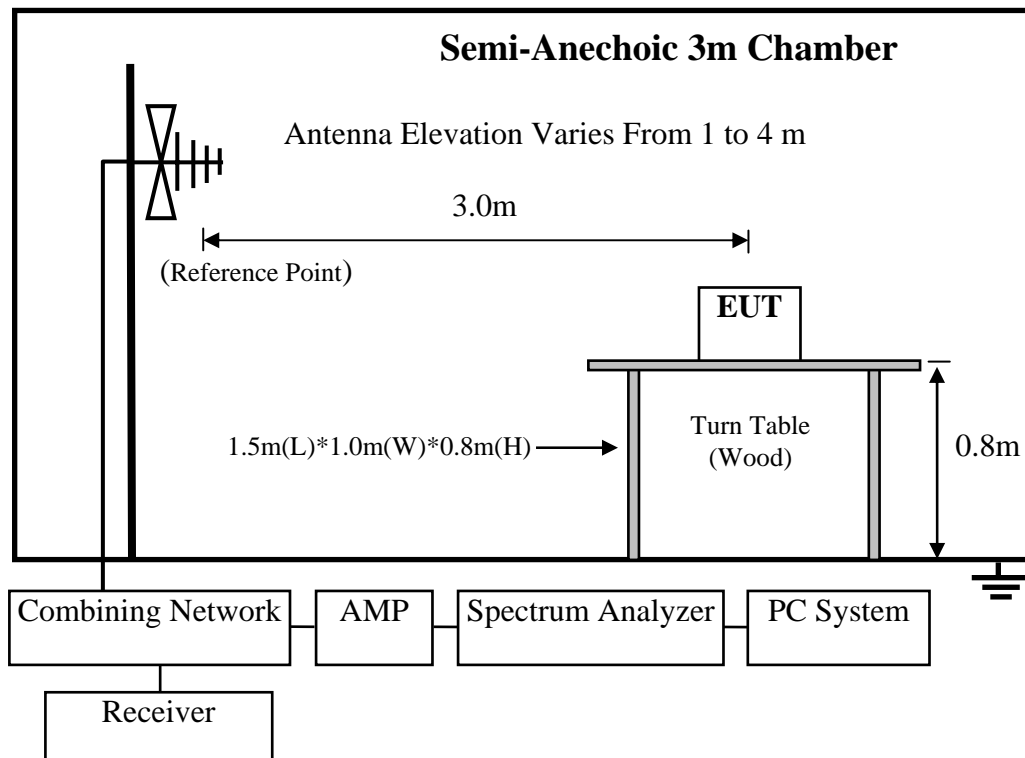
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.06,10	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 10	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 10	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 10	1 Year
5	Bilog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

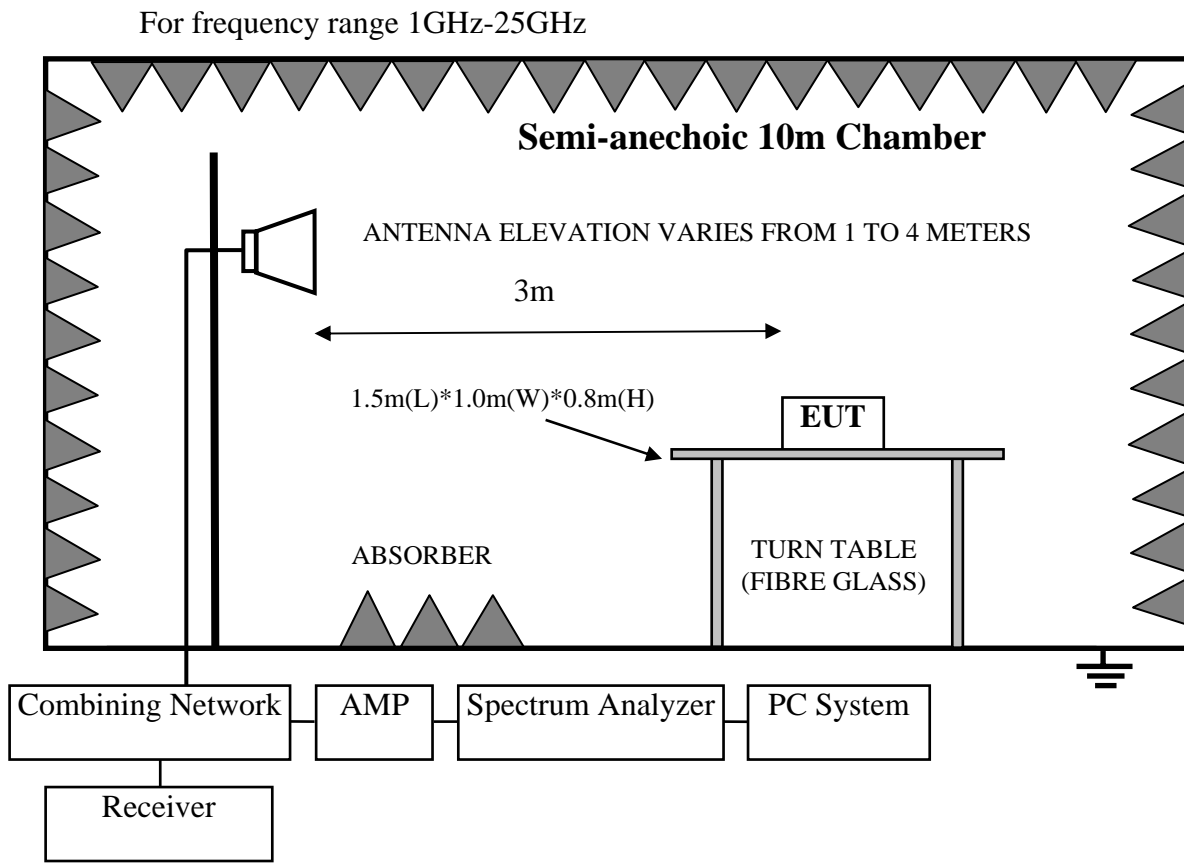
Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3	Horn Antenna	EMCO	3116	00060089	Nov.25, 09	1.5 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 10	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 10	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	29091/2	May.08, 10	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz





4.3.Radiated Emission Limit

4.3.1.15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2.15.205 Restricted bands of operation

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

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

4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

4.5.Operating Condition of EUT

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

4.6.Test Procedure

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

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

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

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

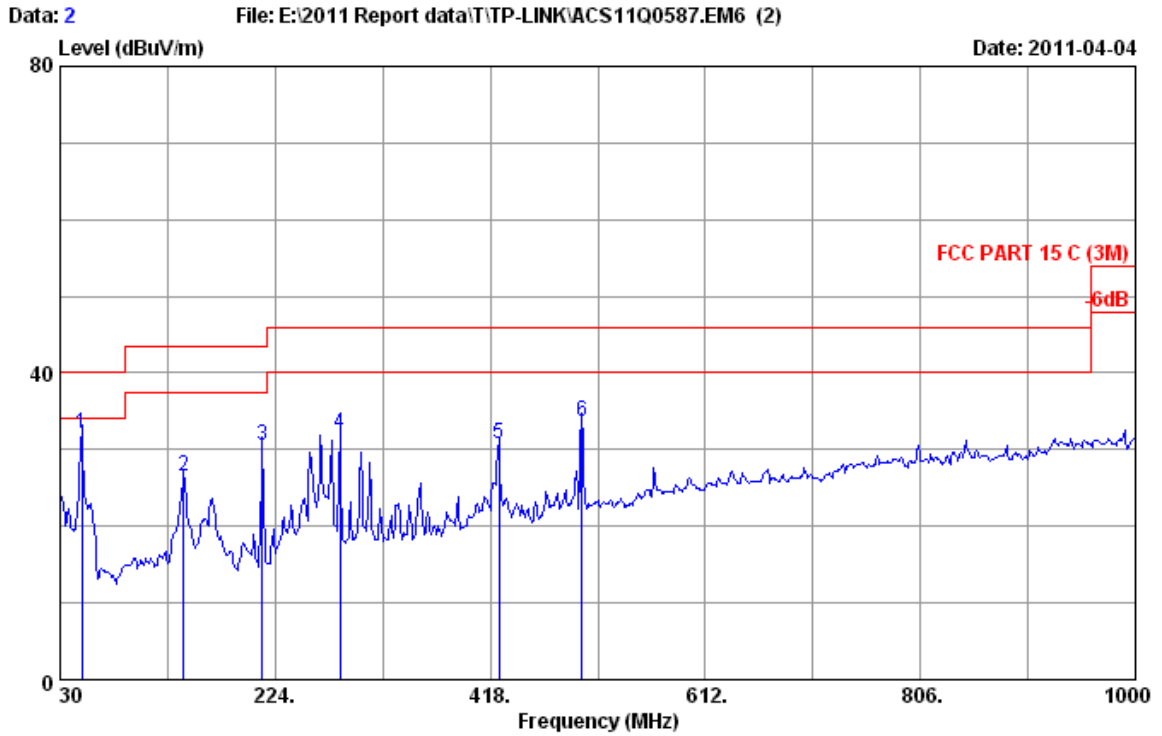
4.7. Radiated Emission Test Results

PASS.

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

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

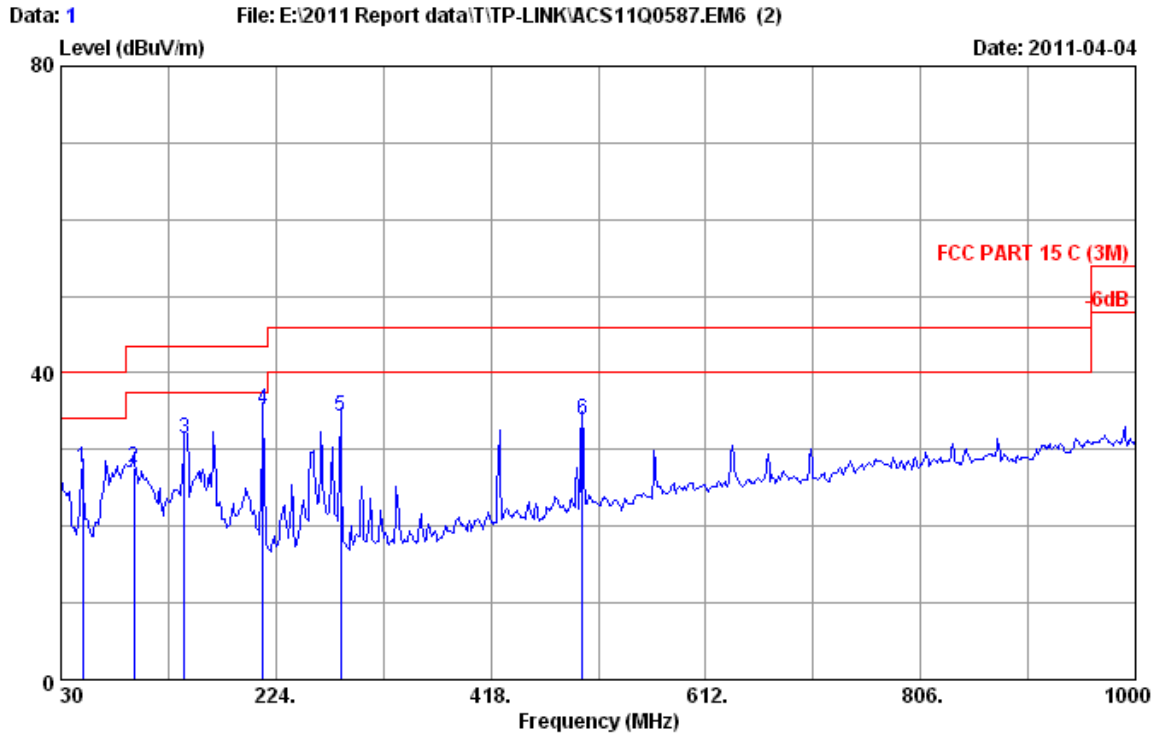
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power rating : DC 9V From PC Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N:TD-W8101G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	49.400	9.72	0.77	21.66	32.15	40.00	7.85	QP
2	141.550	11.97	1.14	13.37	26.48	43.50	17.02	QP
3	212.360	10.06	1.83	18.74	30.63	43.50	12.87	QP
4	282.200	13.28	2.37	16.53	32.18	46.00	13.82	QP
5	425.760	17.30	3.08	10.33	30.71	46.00	15.29	QP
6	500.450	18.30	3.55	11.88	33.73	46.00	12.27	QP

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

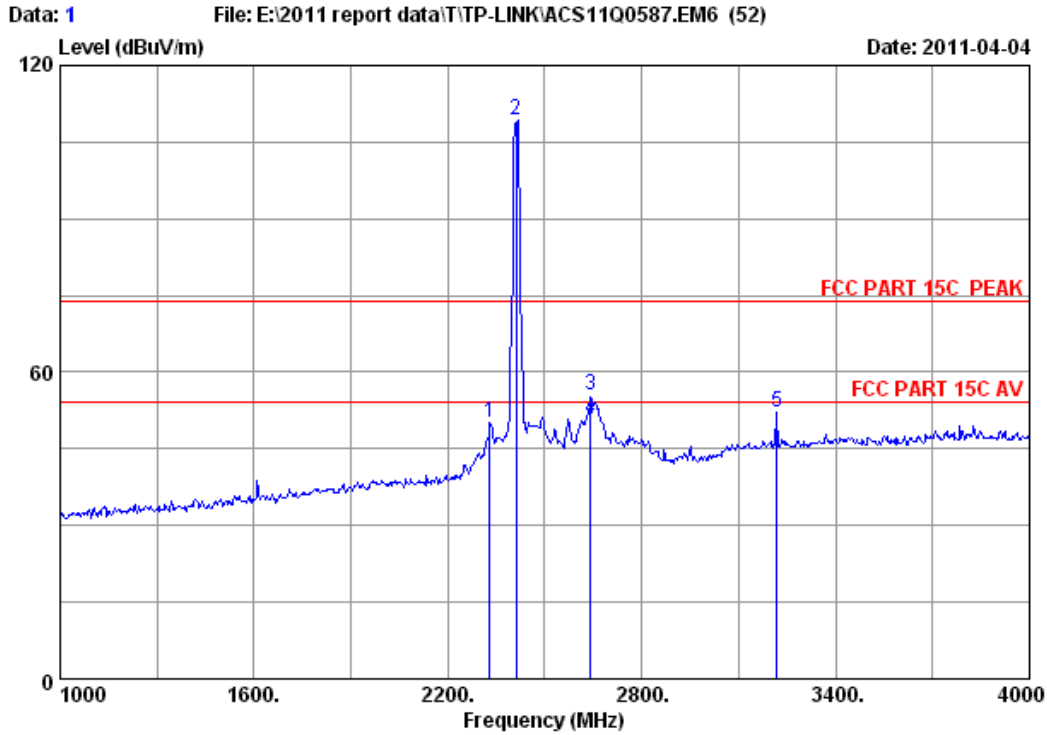


Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power rating : DC 9V From PC Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N:TD-W8101G

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	49.400	9.72	0.77	17.22	27.71	40.00	12.29	QP
2	95.960	9.84	1.09	16.68	27.61	43.50	15.89	QP
3	141.550	11.97	1.14	18.27	31.38	43.50	12.12	QP
4	212.360	10.06	1.83	23.24	35.13	43.50	8.37	QP
5	282.200	13.28	2.37	18.68	34.33	46.00	11.67	QP
6	500.450	18.30	3.55	12.03	33.88	46.00	12.12	QP

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

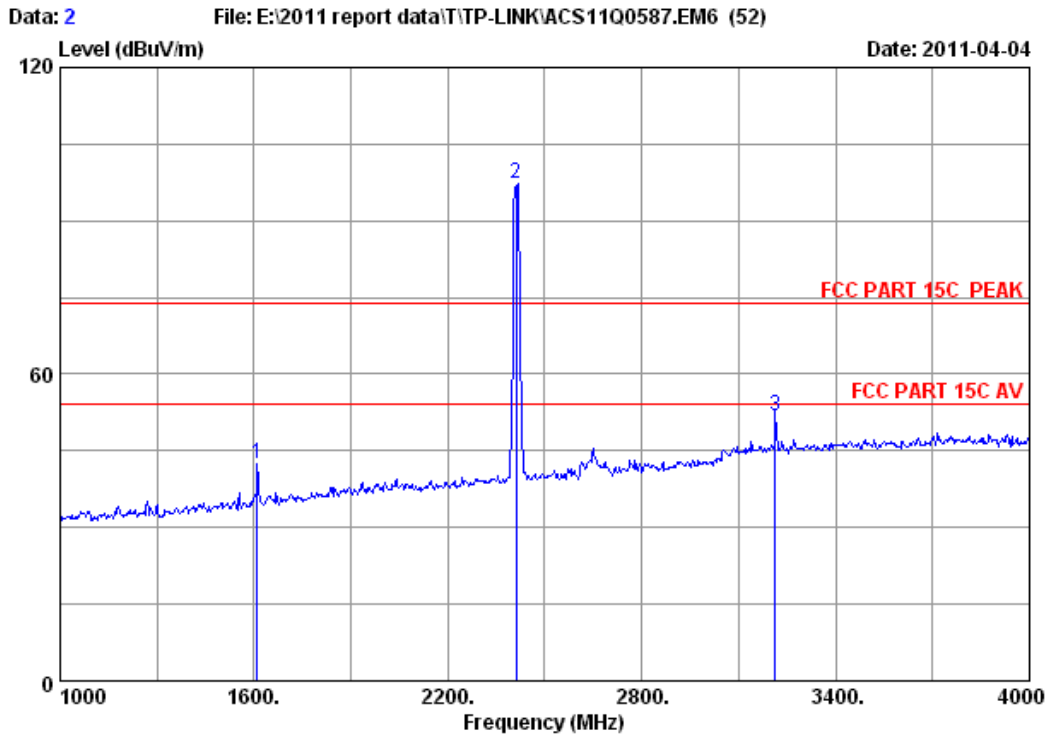
Frequency: 1GHz~18GHz



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2329.000	29.40	7.27	36.63	49.93	49.97	74.00	24.03	Peak
2	2412.000	29.45	7.43	36.62	109.11	109.37	74.00	-35.37	Peak
3	2641.000	30.25	7.88	36.57	54.08	55.64	74.00	18.36	Peak
4	2641.000	30.25	7.88	36.57	49.15	50.71	54.00	3.29	Average
5	3217.000	32.54	8.79	36.28	47.11	52.16	74.00	21.84	Peak

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

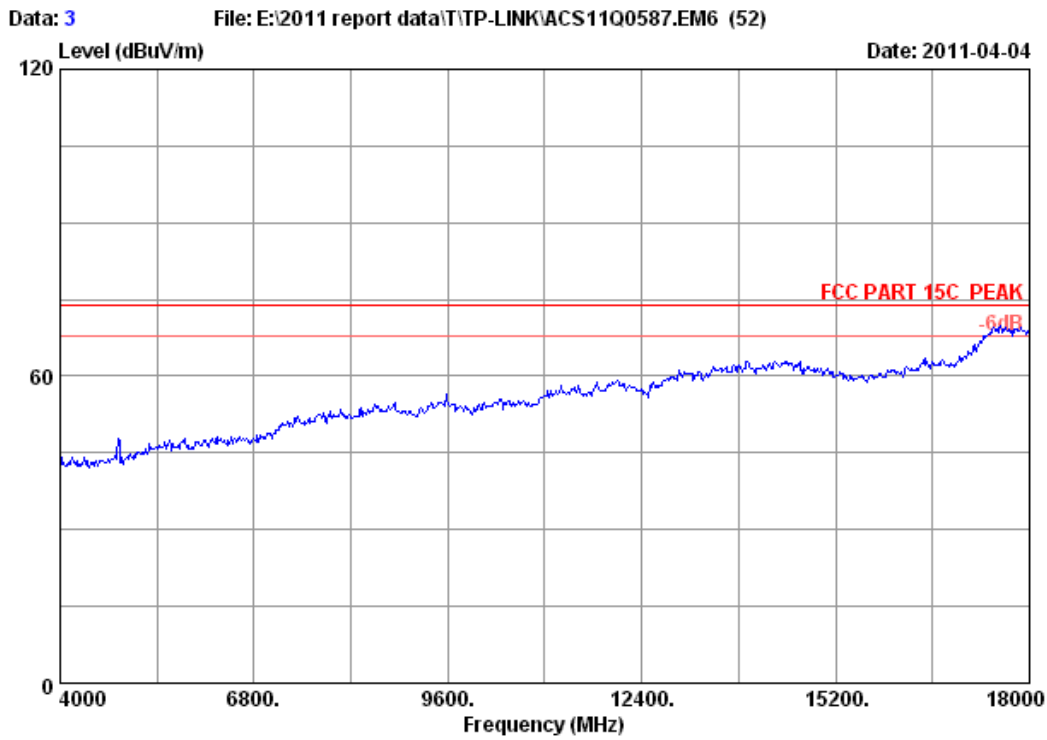


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TD-W8101G

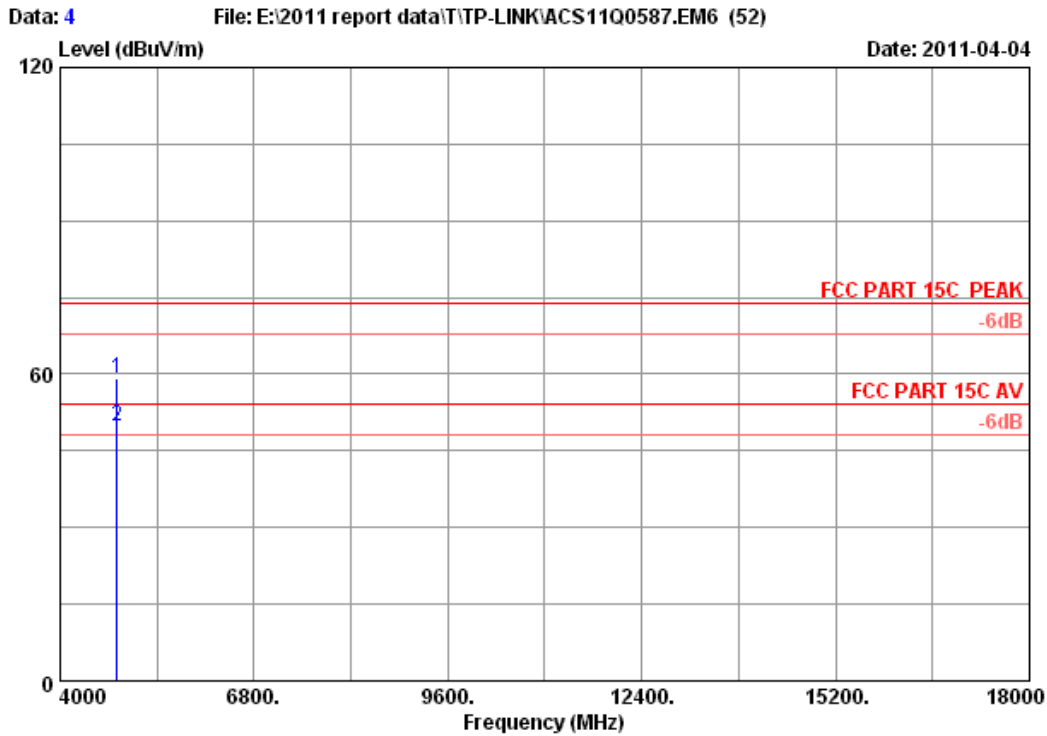
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1609.000	27.05	5.91	36.94	46.29	42.31	74.00	31.69	Peak
2	2412.000	29.45	7.43	36.62	97.15	97.41	74.00	-23.41	Peak
3	3214.000	32.54	8.79	36.28	46.86	51.91	74.00	22.09	Peak

Remarks:

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



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 ADSL2+Modem Router
Power : DC 9V From Adapter Input AC 230V/50Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : TD-W8101G

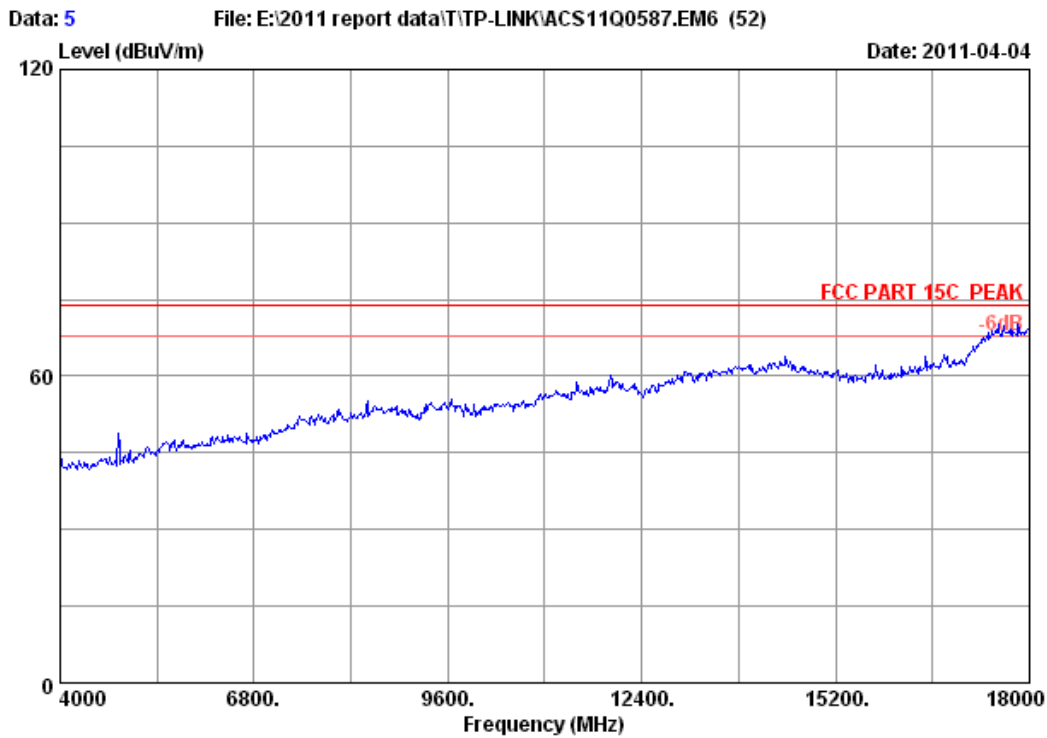


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TD-W8101G

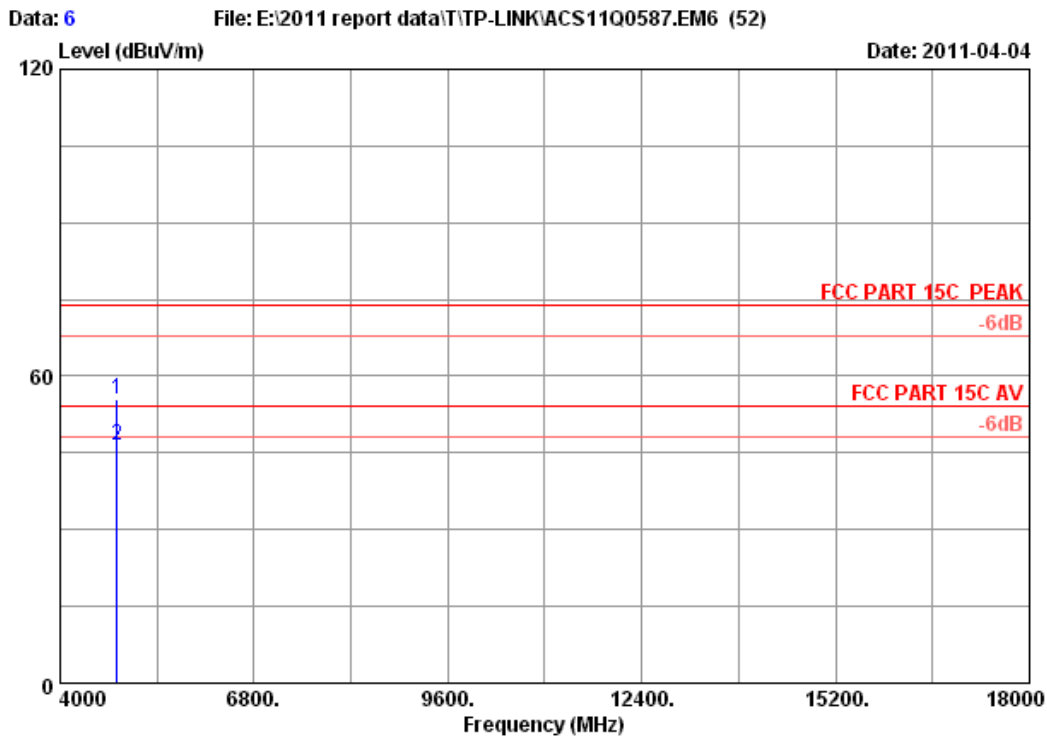
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	4824.000	34.32	10.64	35.08	49.37	59.25	74.00	14.75	Peak
2	4824.000	34.32	10.64	35.08	39.80	49.68	54.00	4.32	Average

Remarks:

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



Site no.	: 3m Chamber	Data no. :	5
Dis. / Ant.	: 3m 3115(0911)	Ant. pol. :	HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer :	Sunny-lu
EUT	: 54Mbps Wireless ADSL2+Modem Router		
Power	: DC 9V From Adapter Input AC 230V/50Hz		
Test mode	: IEEE802.11b CH1 2412MHz Tx		
M/N	: TD-W8101G		

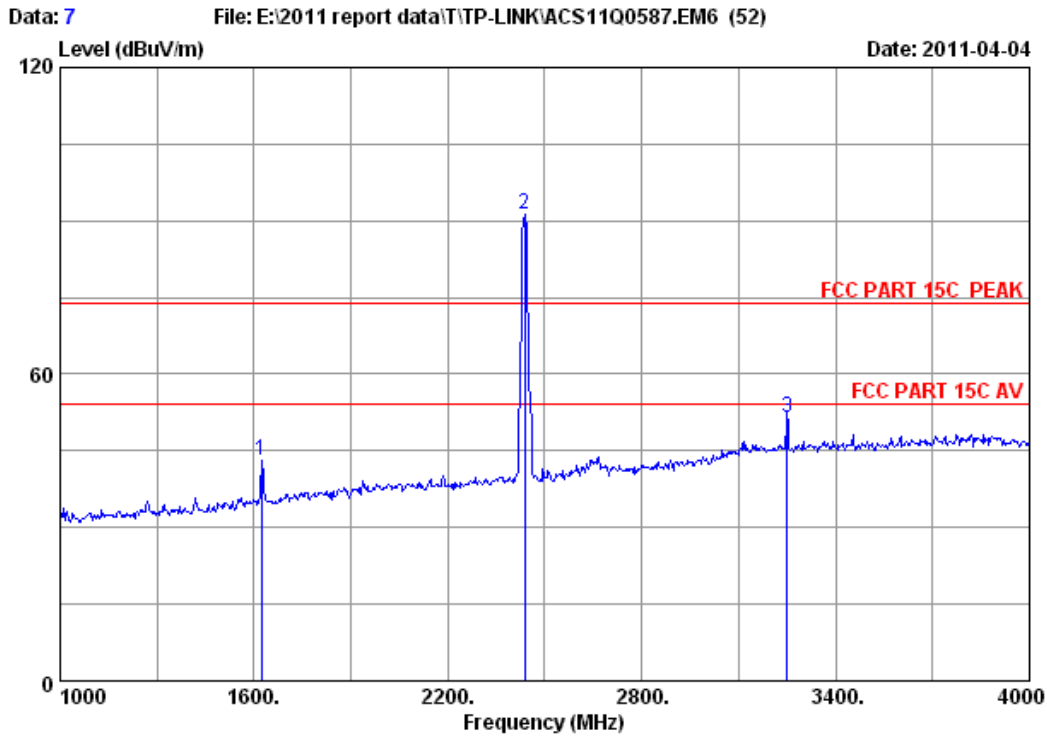


Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.32	10.64	35.08	45.62	55.50	74.00	18.50	Peak
2	4824.000	34.32	10.64	35.08	36.71	46.59	54.00	7.41	Average

Remarks:

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

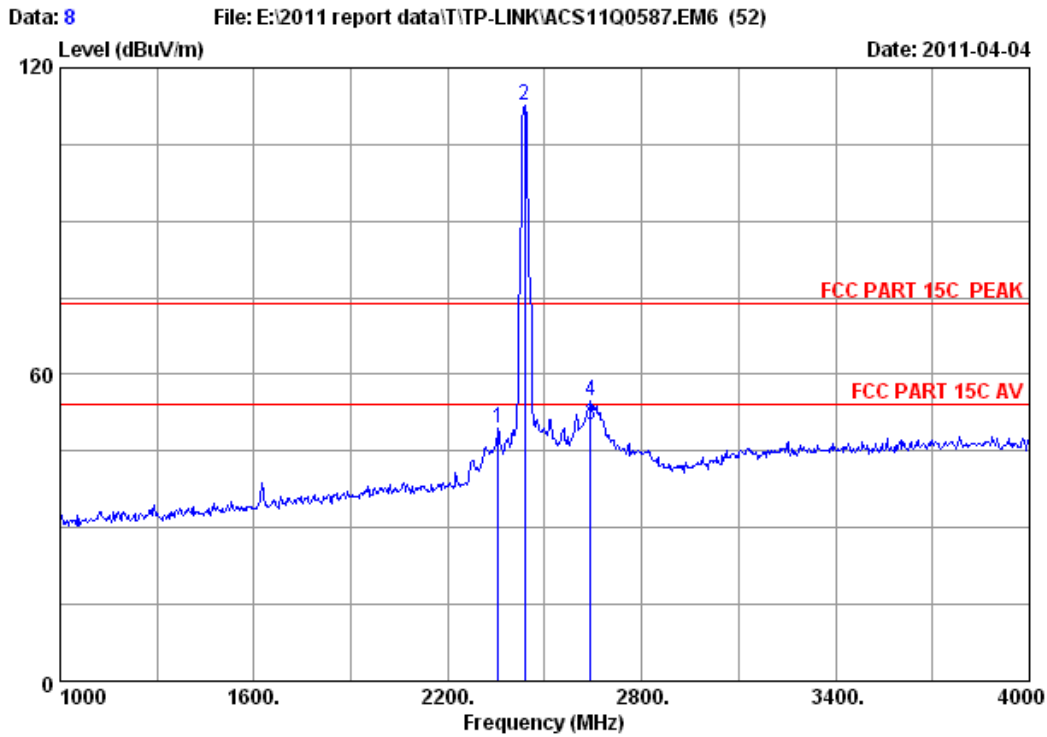


Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1624.000	27.15	5.95	36.94	46.85	43.01	74.00	30.99	Peak
2	2437.000	29.47	7.46	36.61	90.78	91.10	74.00	-17.10	Peak
3	3250.000	32.63	8.83	36.25	46.41	51.62	74.00	22.38	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.



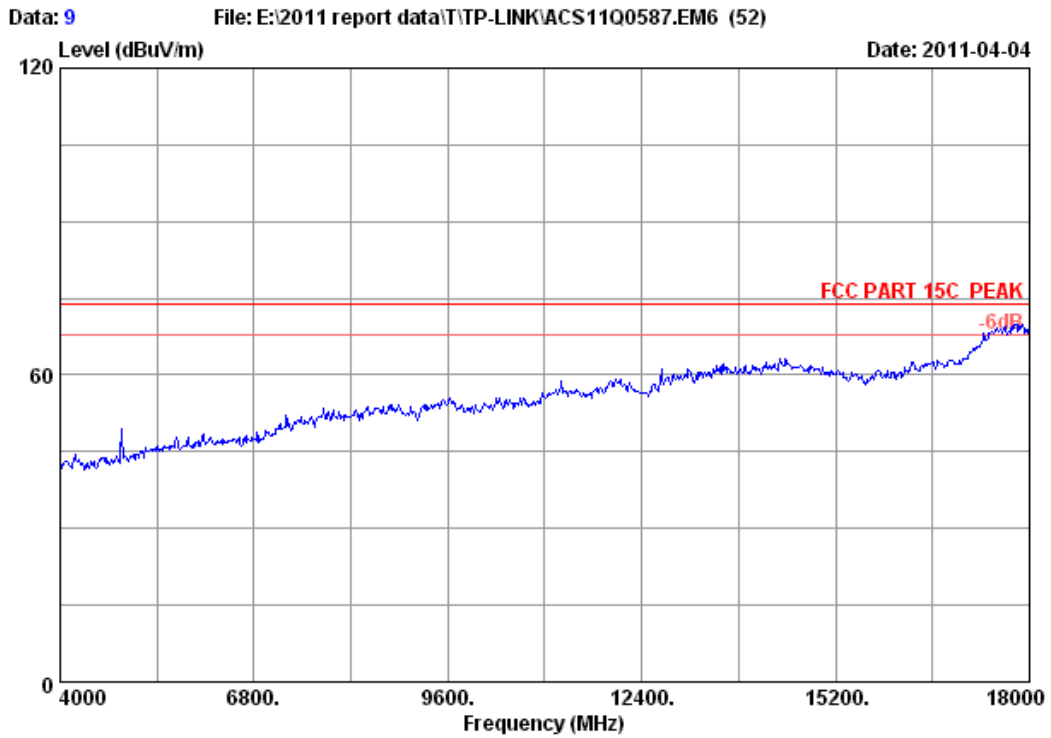
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Site no.      : 3m Chamber           Data no. : 8
Dis. / Ant.  : 3m 3115(0911)        Ant. pol.: VERTICAL
Limit       : FCC PART 15C PEAK
Env. / Ins.  : 23*C/54%             Engineer : Sunny-lu
EUT        : 54Mbps Wireless ADSL2+Modem Router
Power      : DC 9V From Adapter Input AC 230V/50Hz
Test mode   : IEEE802.11b CH6 2437MHz Tx
M/N        : TD-W8101G
    
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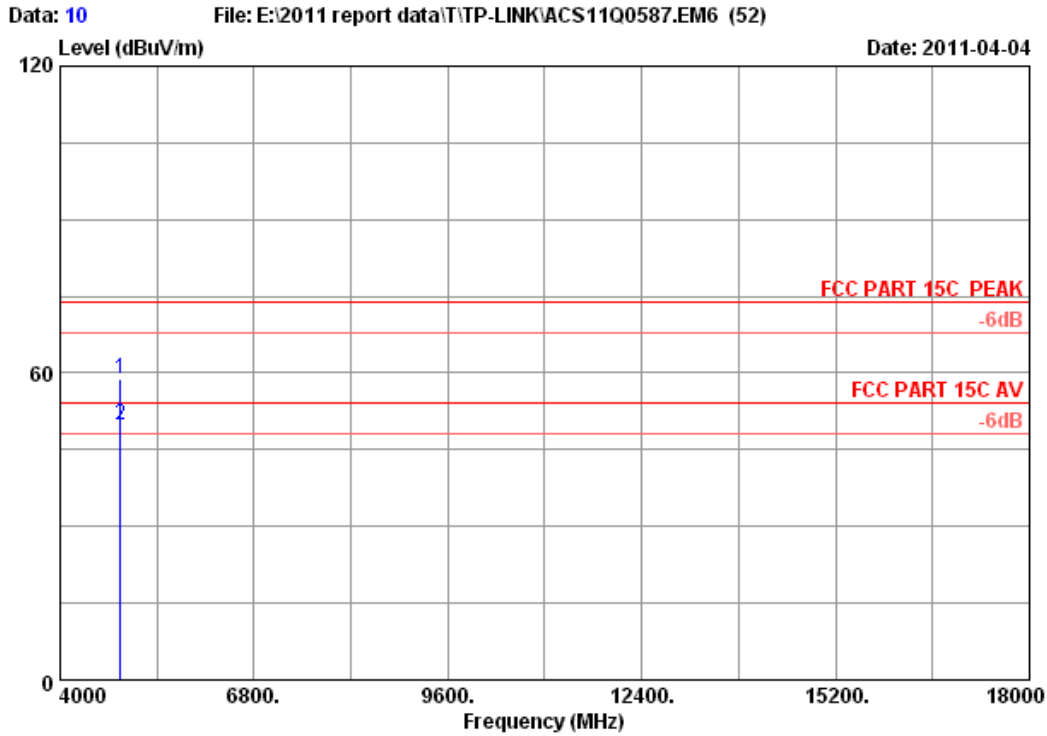
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2356.000	29.42	7.31	36.63	49.43	49.53	74.00	24.47	Peak
2	2437.000	29.47	7.46	36.61	112.38	112.70	74.00	-38.70	Peak
3	2641.000	30.25	7.88	36.57	48.52	50.08	54.00	3.92	Average
4	2641.000	30.25	7.88	36.57	53.38	54.94	74.00	19.06	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : 54Mbps Wireless ADSL2+Modem Router
Power : DC 9V From Adapter Input AC 230V/50Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : TD-W8101G

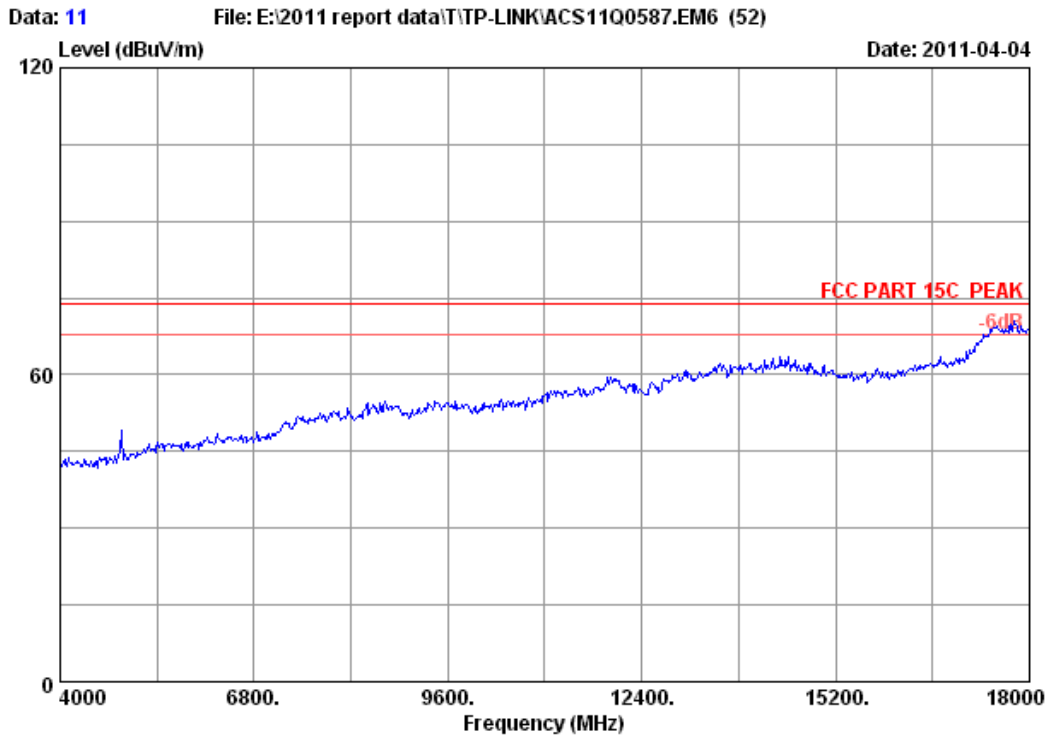


Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TD-W8101G

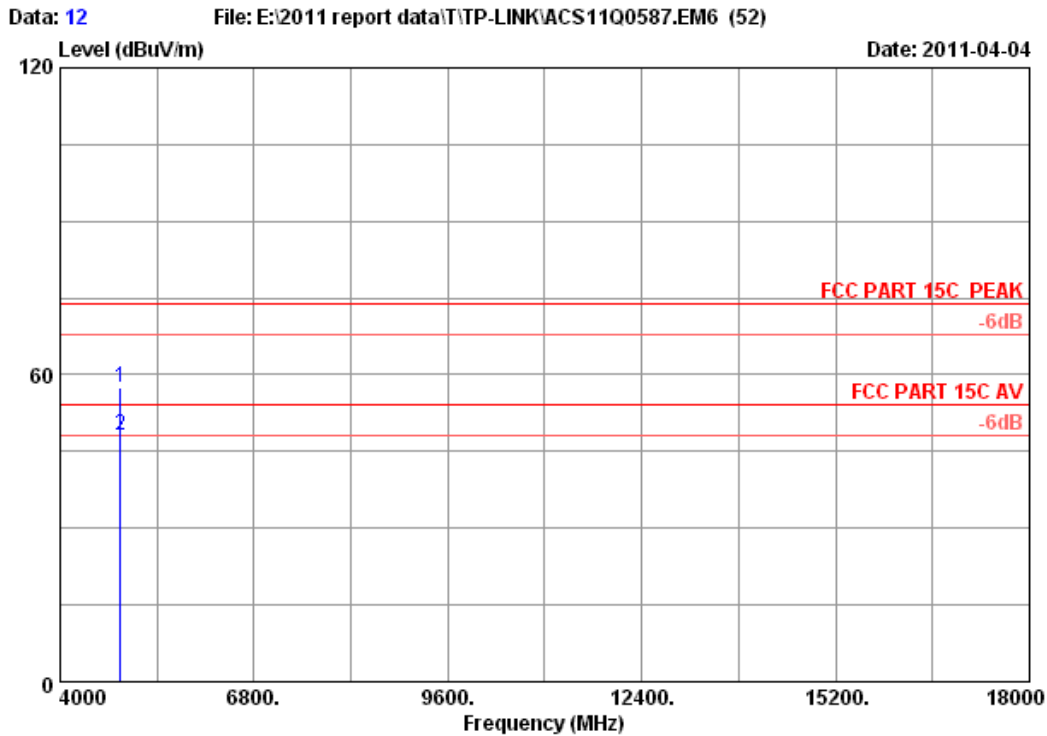
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	10.69	35.03	48.60	58.67	74.00	15.33	Peak
2	4874.000	34.41	10.69	35.03	39.58	49.65	54.00	4.35	Average

Remarks:

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



Site no.	: 3m Chamber	Data no. :	11
Dis. / Ant.	: 3m 3115(0911)	Ant. pol. :	HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer :	Sunny-lu
EUT	: 54Mbps Wireless ADSL2+Modem Router		
Power	: DC 9V From Adapter Input AC 230V/50Hz		
Test mode	: IEEE802.11b CH6 2437MHz Tx		
M/N	: TD-W8101G		

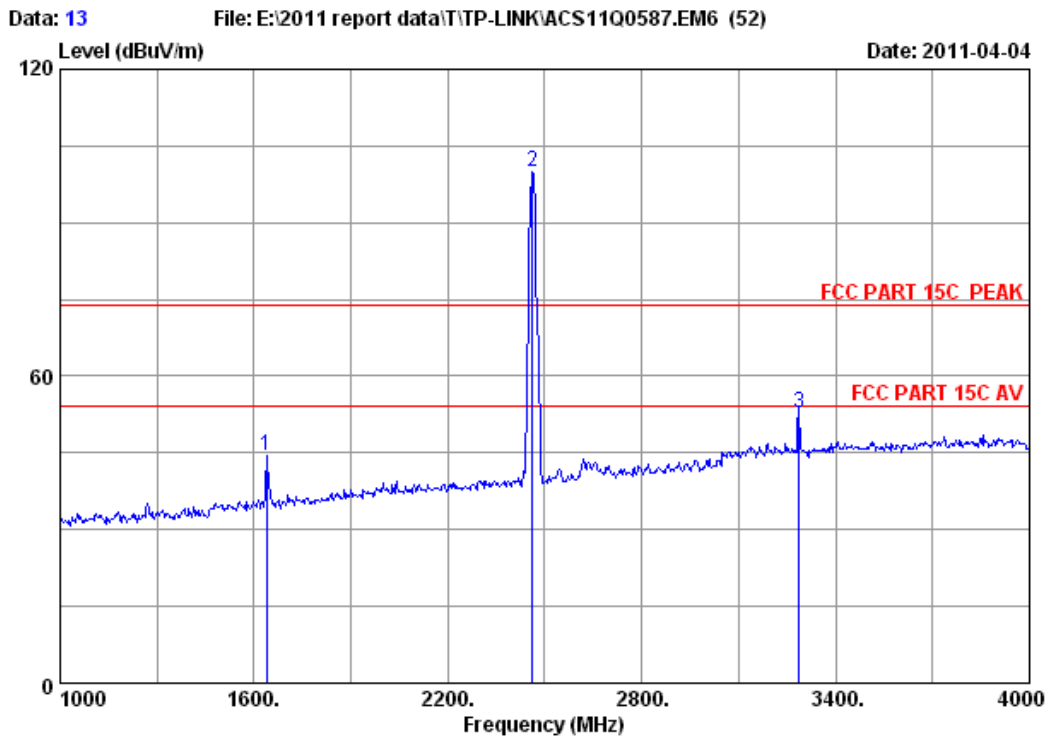


Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TD-W8101G

	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	10.69	35.03	47.36	57.43	74.00	16.57	Peak
2	4874.000	34.41	10.69	35.03	38.22	48.29	54.00	5.71	Average

Remarks:

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

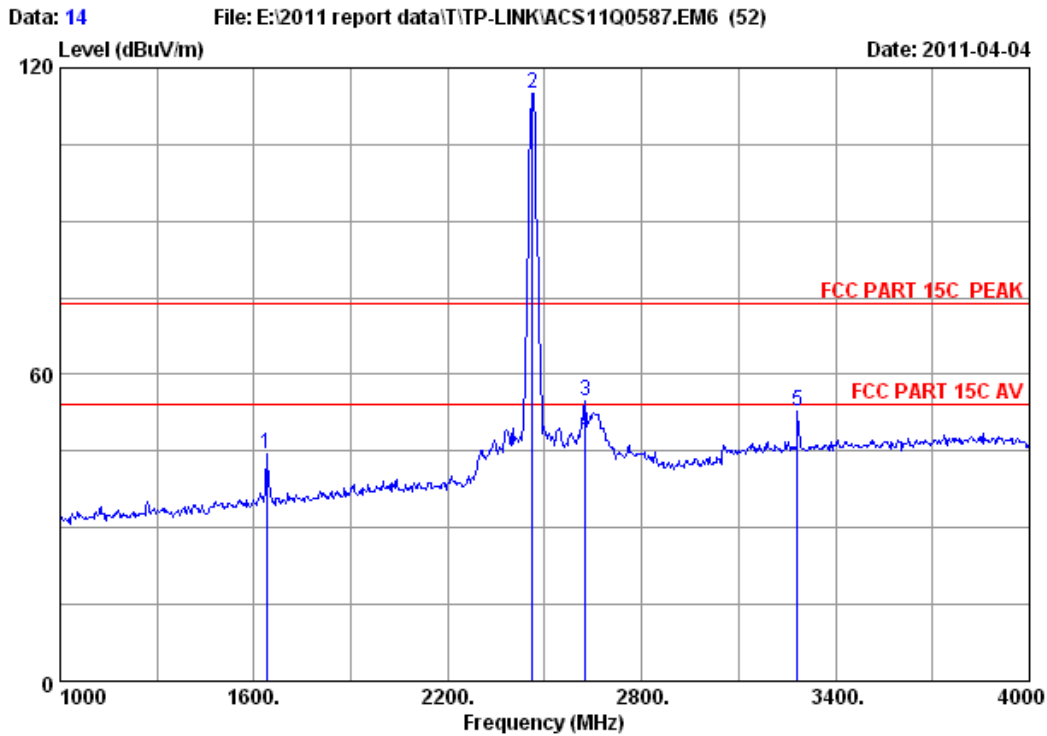


Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1639.000	27.24	5.95	36.92	48.09	44.36	74.00	29.64	Peak
2	2462.000	29.48	7.54	36.61	99.44	99.85	74.00	-25.85	Peak
3	3286.000	32.72	8.88	36.20	47.45	52.85	74.00	21.15	Peak

Remarks:

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

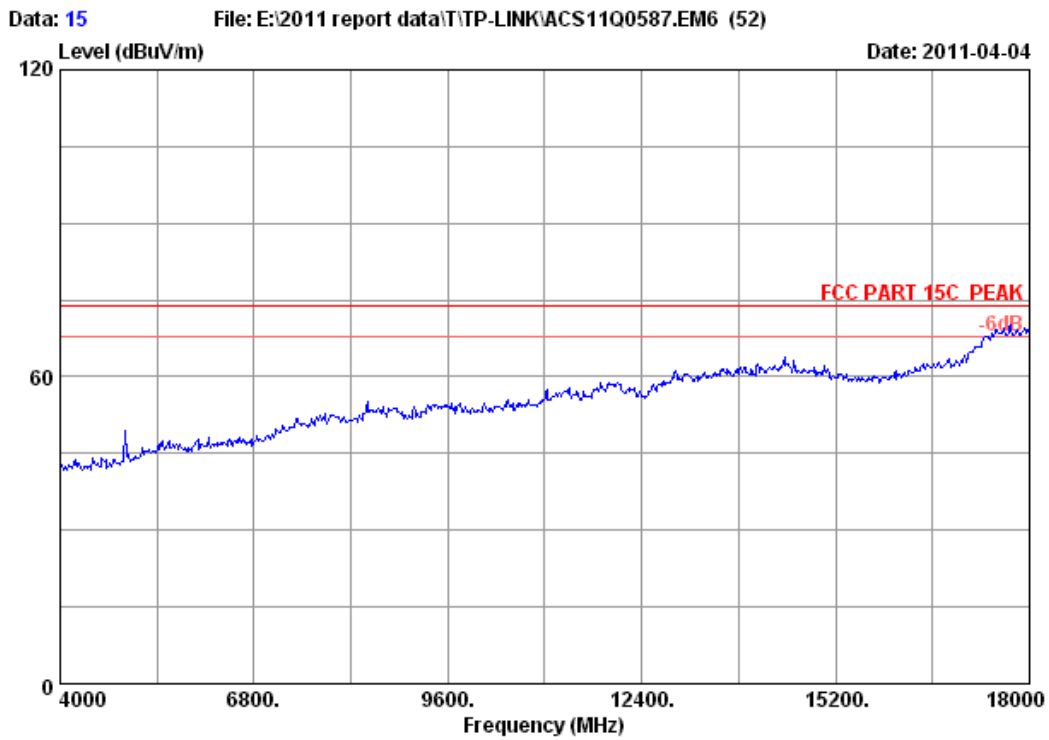


Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TD-W8101G

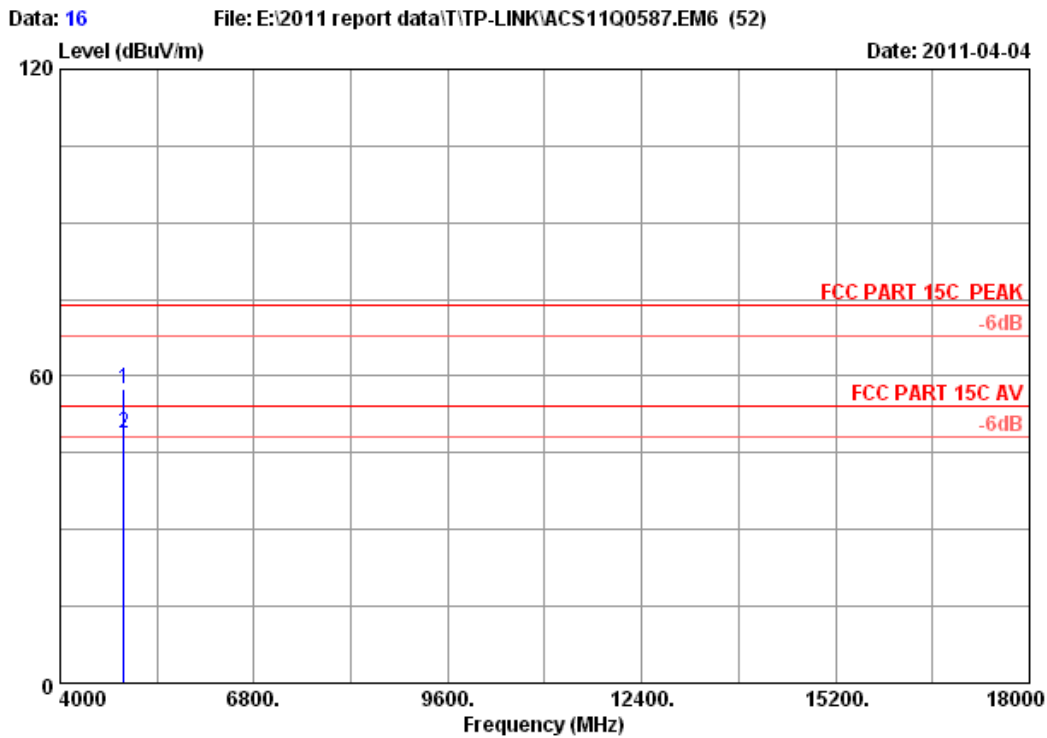
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1639.000	27.24	5.95	36.92	48.09	44.36	74.00	29.64	Peak
2	2462.000	29.48	7.54	36.61	114.50	114.91	74.00	-40.91	Peak
3	2626.000	30.17	7.84	36.57	53.36	54.80	74.00	19.20	Peak
4	2626.000	30.17	7.84	36.57	47.03	48.47	54.00	5.53	Average
5	3283.000	32.72	8.88	36.20	47.52	52.92	74.00	21.08	Peak

Remarks:

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



Site no.	: 3m Chamber	Data no. :	15
Dis. / Ant.	: 3m 3115(0911)	Ant. pol. :	HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer :	Sunny-lu
EUT	: 54Mbps Wireless ADSL2+Modem Router		
Power	: DC 9V From Adapter Input AC 230V/50Hz		
Test mode	: IEEE802.11b CH11 2462MHz Tx		
M/N	: TD-W8101G		

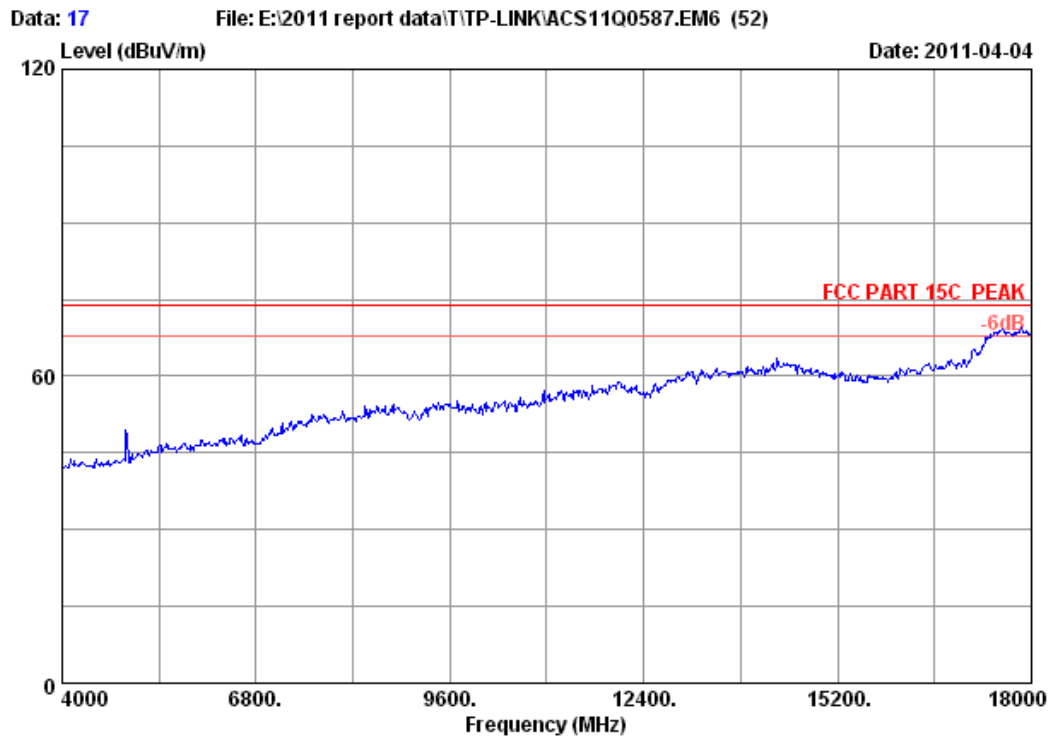


Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TD-W8101G

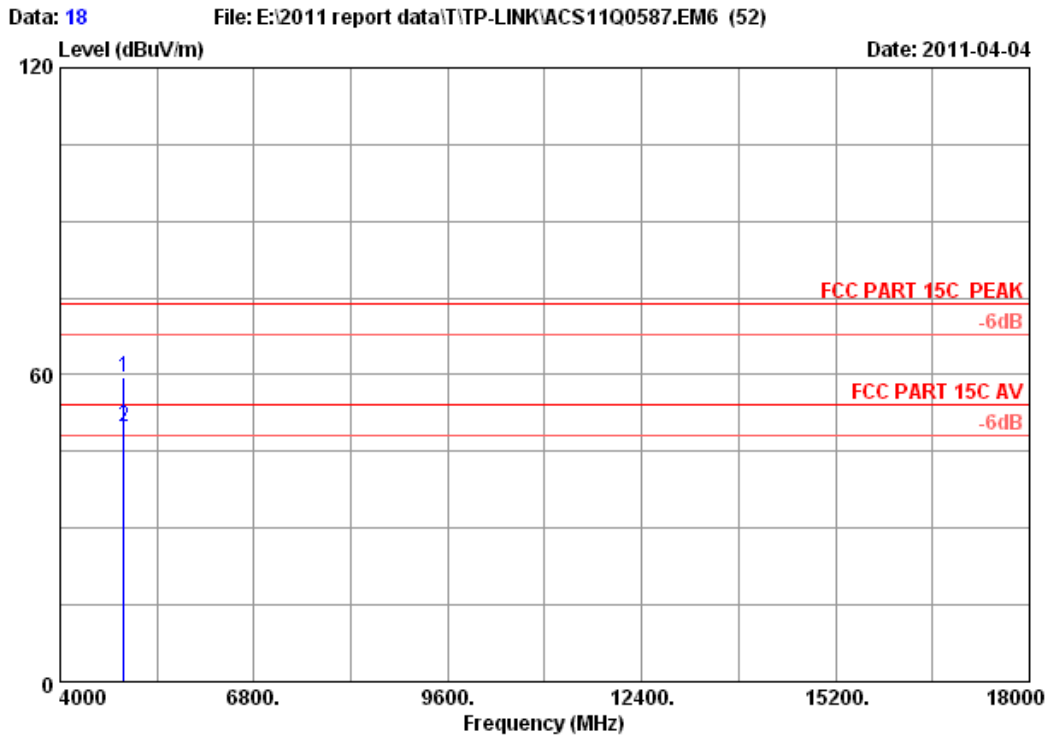
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	34.49	10.76	34.98	47.37	57.64	74.00	16.36	Peak
2	4924.000	34.49	10.76	34.98	38.65	48.92	54.00	5.08	Average

Remarks:

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



Site no. : 3m Chamber Data no. : 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 ADSL2+Modem Router
Power : DC 9V From Adapter Input AC 230V/50Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : TD-W8101G

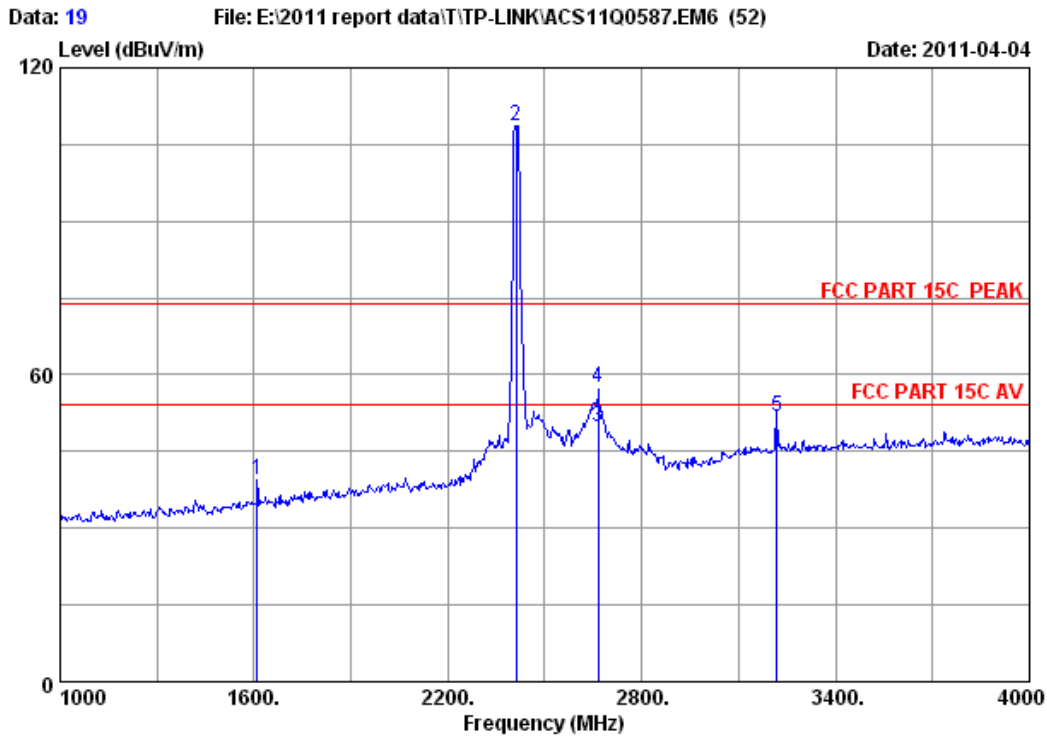


Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TD-W8101G

	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	10.76	34.98	49.27	59.54	74.00	14.46	Peak
2	4924.000	34.49	10.76	34.98	39.39	49.66	54.00	4.34	Average

Remarks:

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

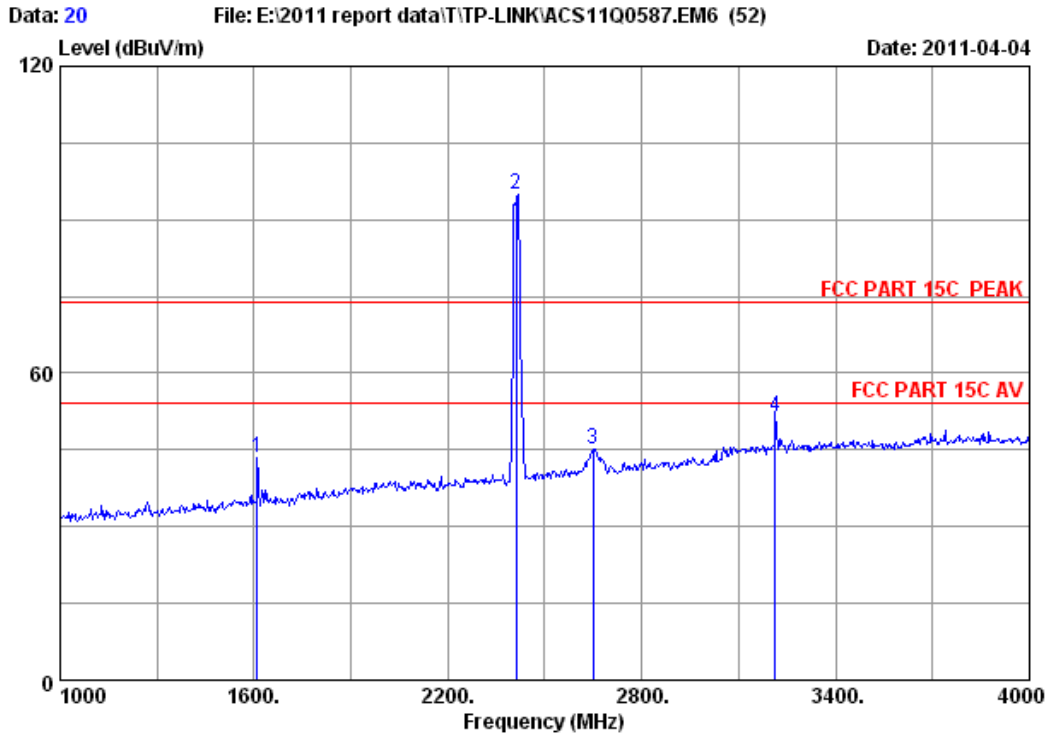


Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	1609.000	27.05	5.91	36.94	43.40	39.42	74.00	34.58	Peak
2	2412.000	29.45	7.43	36.62	108.28	108.54	74.00	-34.54	Peak
3	2665.000	30.33	7.92	36.57	48.18	49.86	54.00	4.14	Average
4	2665.000	30.33	7.92	36.57	55.97	57.65	74.00	16.35	Peak
5	3217.000	32.54	8.79	36.28	46.81	51.86	74.00	22.14	Peak

Remarks:

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

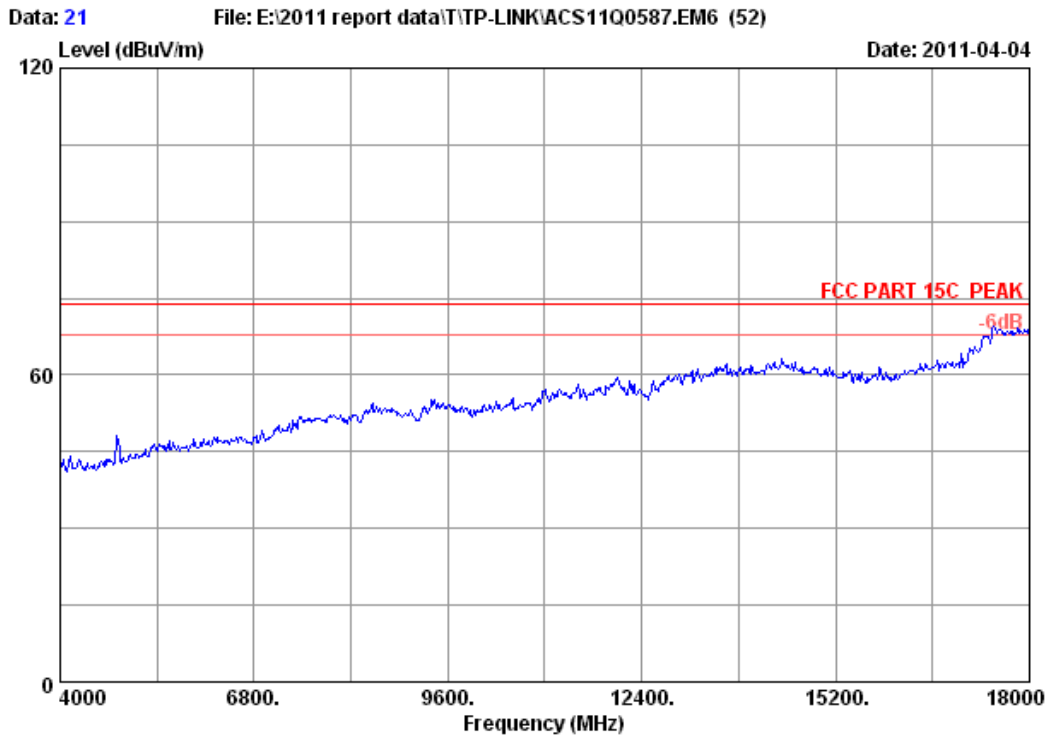


Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TD-W8101G

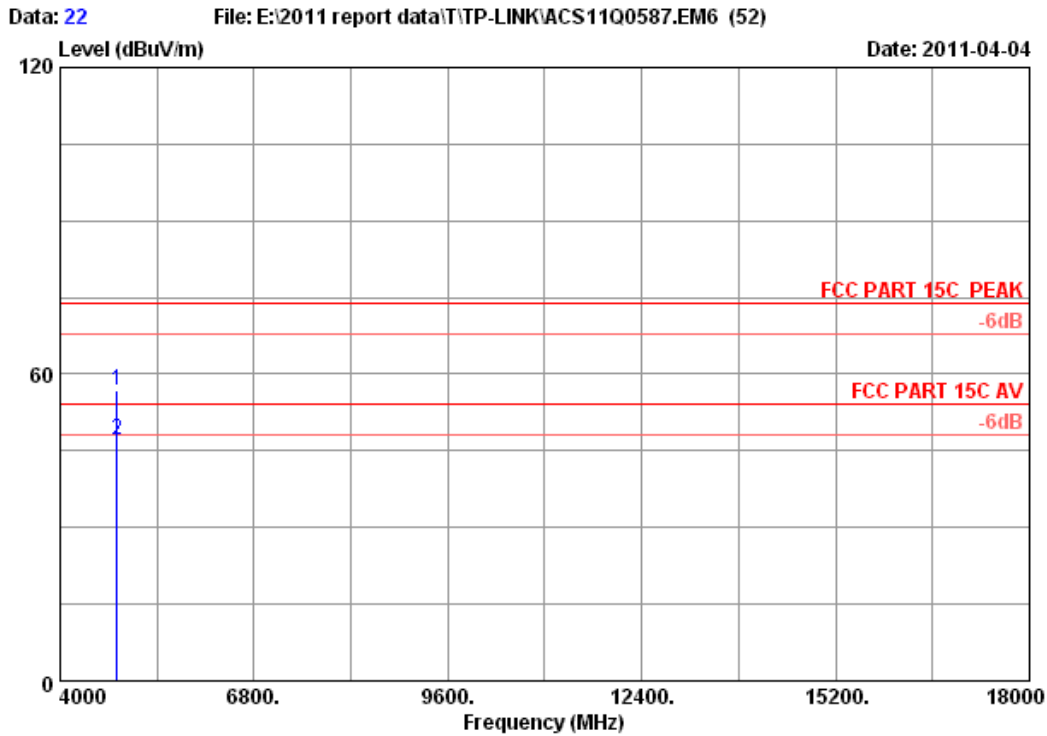
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1609.000	27.05	5.91	36.94	47.45	43.47	74.00	30.53	Peak
2	2412.000	29.45	7.43	36.62	94.66	94.92	74.00	-20.92	Peak
3	2650.000	30.25	7.88	36.57	43.73	45.29	74.00	28.71	Peak
4	3214.000	32.54	8.79	36.28	46.48	51.53	74.00	22.47	Peak

Remarks:

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



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 ADSL2+Modem Router		
Power	: DC 9V From Adapter Input AC 230V/50Hz		
Test mode	: IEEE802.11g CH1 2412MHz Tx		
M/N	: TD-W8101G		

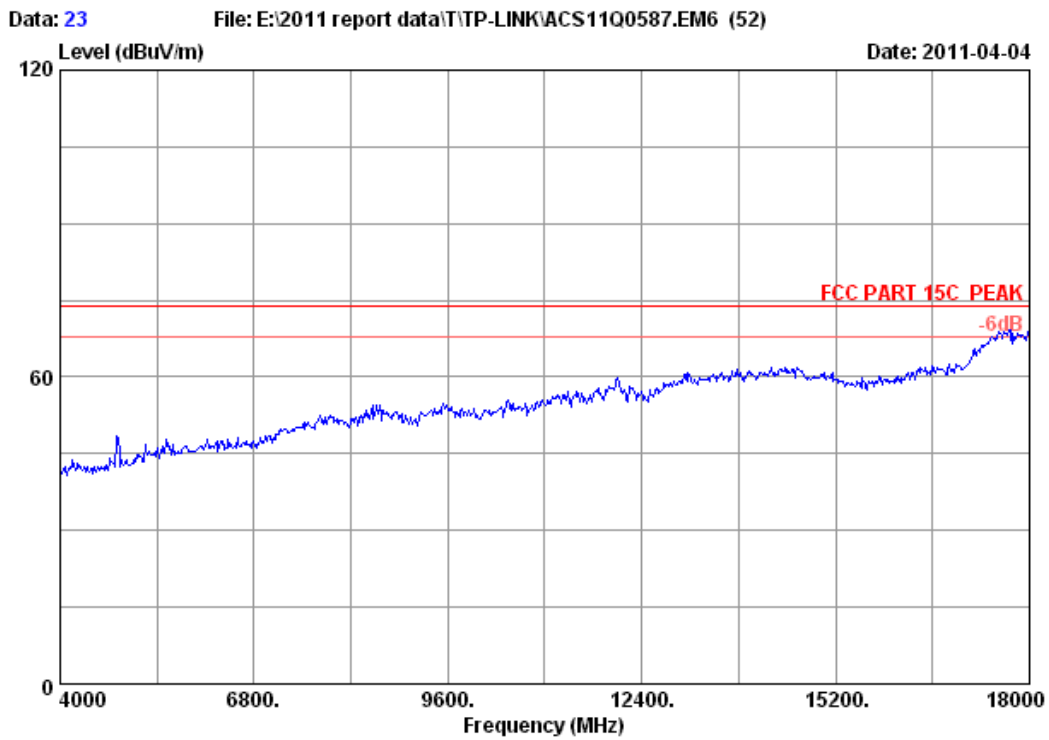


Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TD-W8101G

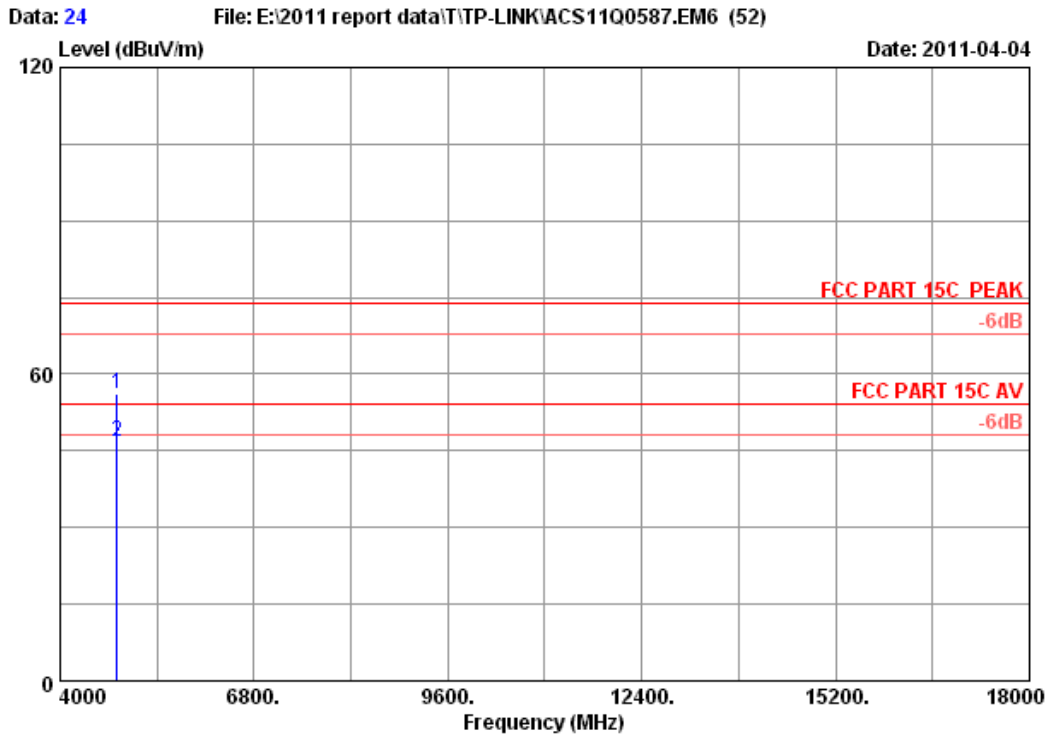
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.32	10.64	35.08	46.86	56.74	74.00	17.26	Peak
2	4824.000	34.32	10.64	35.08	37.41	47.29	54.00	6.71	Average

Remarks:

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



Site no. : 3m Chamber Data no. : 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 ADSL2+Modem Router
Power : DC 9V From Adapter Input AC 230V/50Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : TD-W8101G

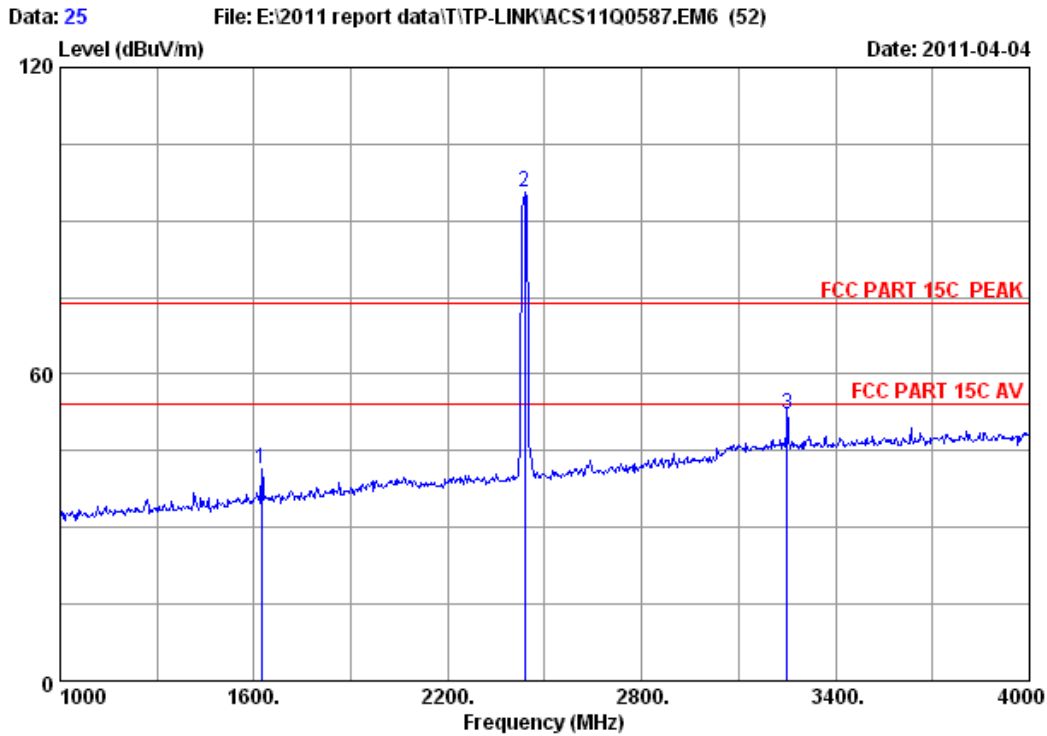


Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TD-W8101G

	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	10.64	35.08	46.44	56.32	74.00	17.68	Peak
2	4824.000	34.32	10.64	35.08	36.86	46.74	54.00	7.26	Average

Remarks:

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

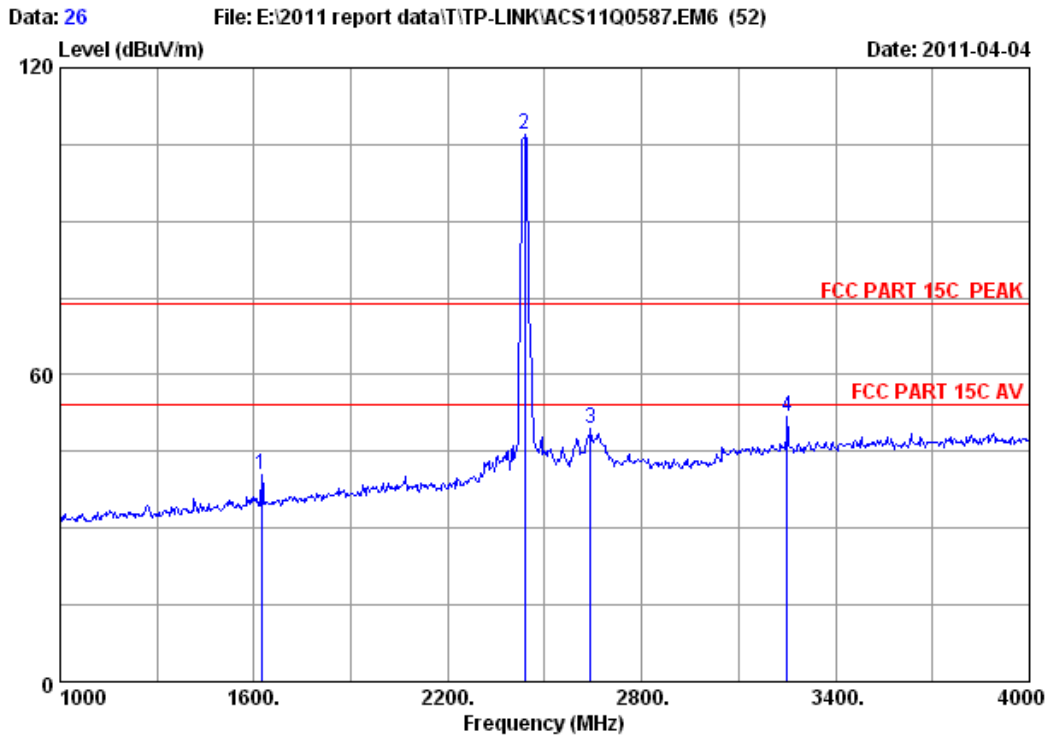


Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1624.000	27.15	5.95	36.94	45.45	41.61	74.00	32.39	Peak
2	2437.000	29.47	7.46	36.61	95.14	95.46	74.00	-21.46	Peak
3	3250.000	32.63	8.83	36.25	47.05	52.26	74.00	21.74	Peak

Remarks:

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

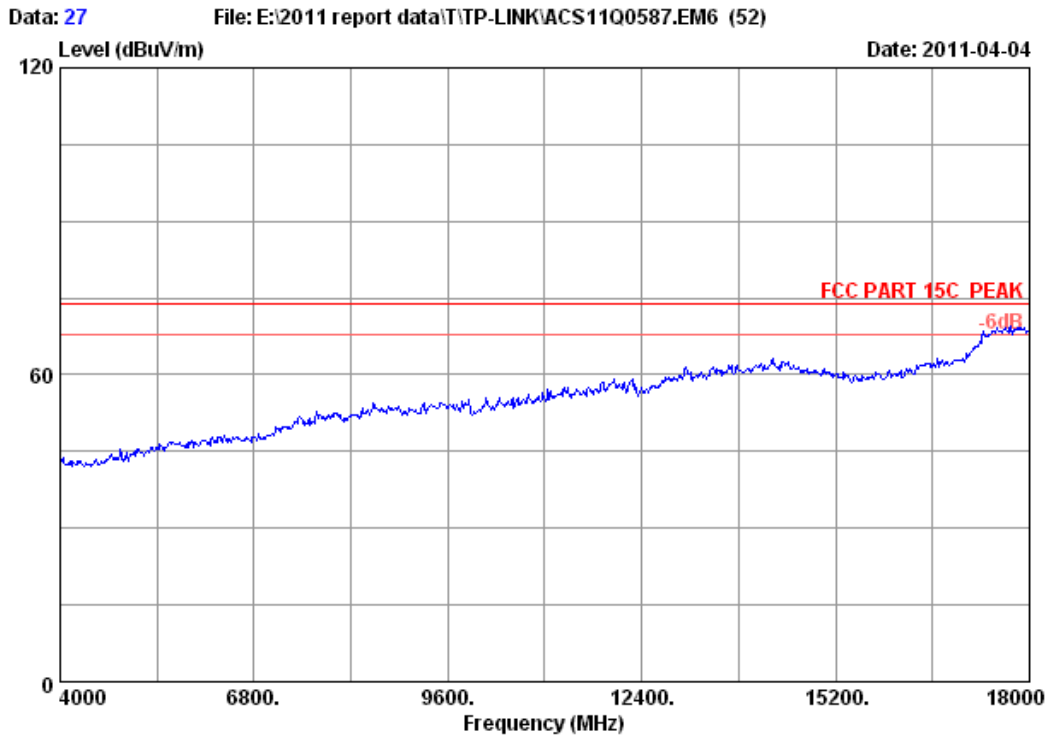


Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TD-W8101G

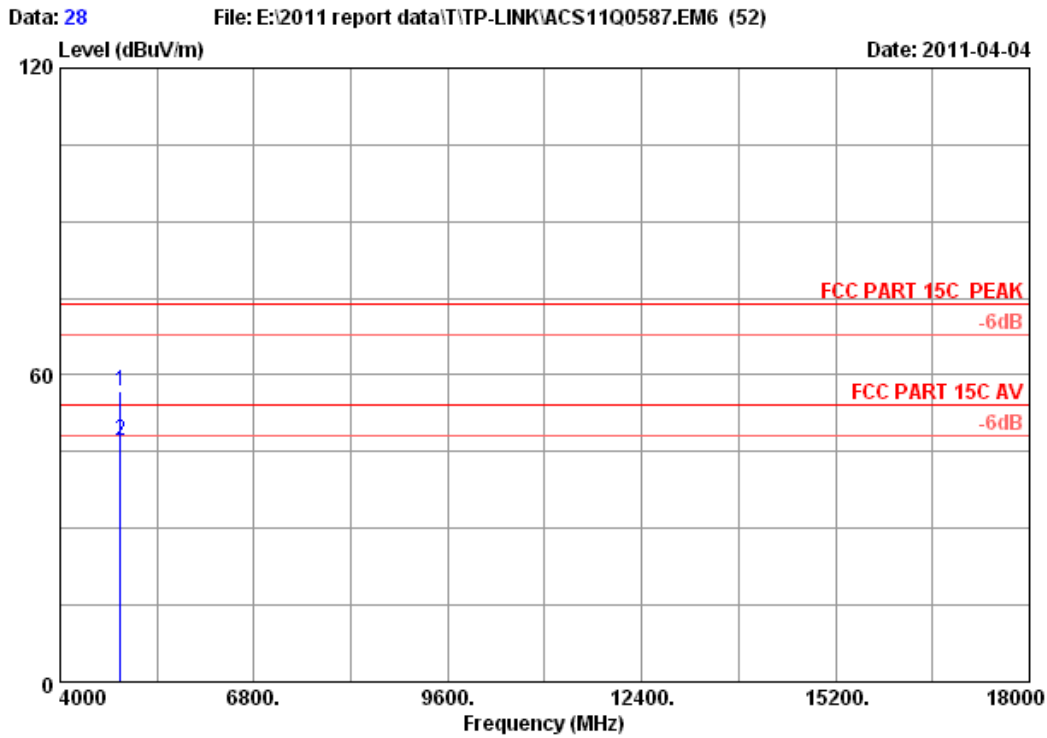
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1624.000	27.15	5.95	36.94	44.45	40.61	74.00	33.39	Peak
2	2437.000	29.47	7.46	36.61	106.63	106.95	74.00	-32.95	Peak
3	2641.000	30.25	7.88	36.57	48.01	49.57	74.00	24.43	Peak
4	3250.000	32.63	8.83	36.25	46.72	51.93	74.00	22.07	Peak

Remarks:

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



Site no.	: 3m Chamber	Data no. :	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 ADSL2+Modem Router		
Power	: DC 9V From Adapter Input AC 230V/50Hz		
Test mode	: IEEE802.11g CH6 2437MHz Tx		
M/N	: TD-W8101G		

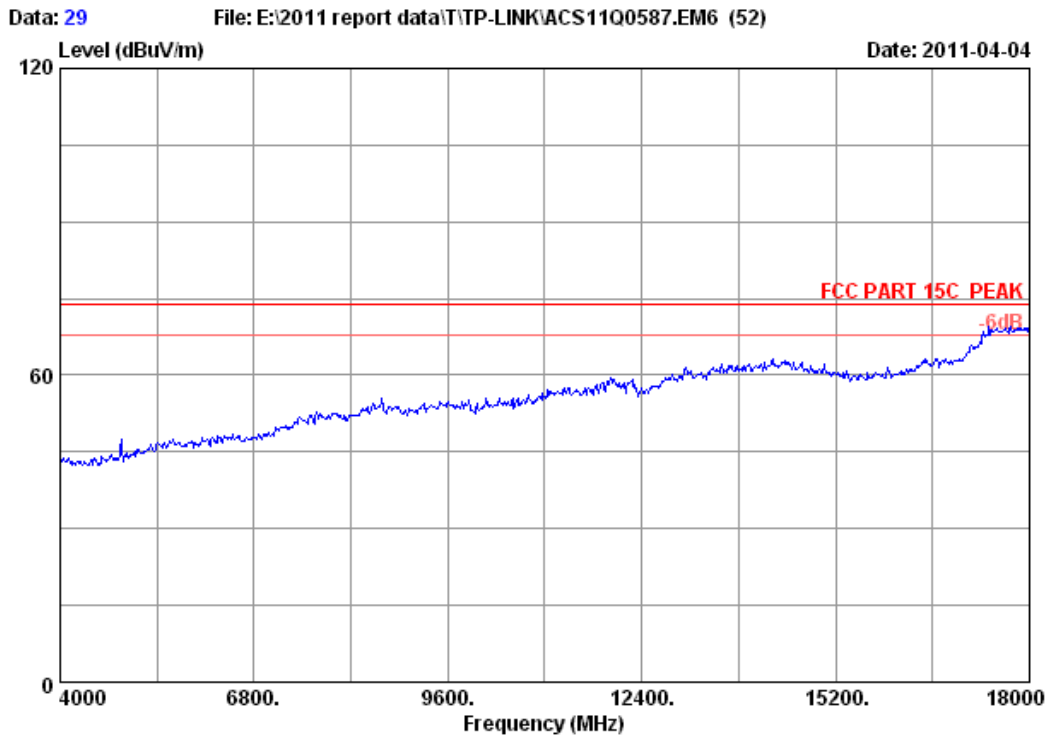


Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TD-W8101G

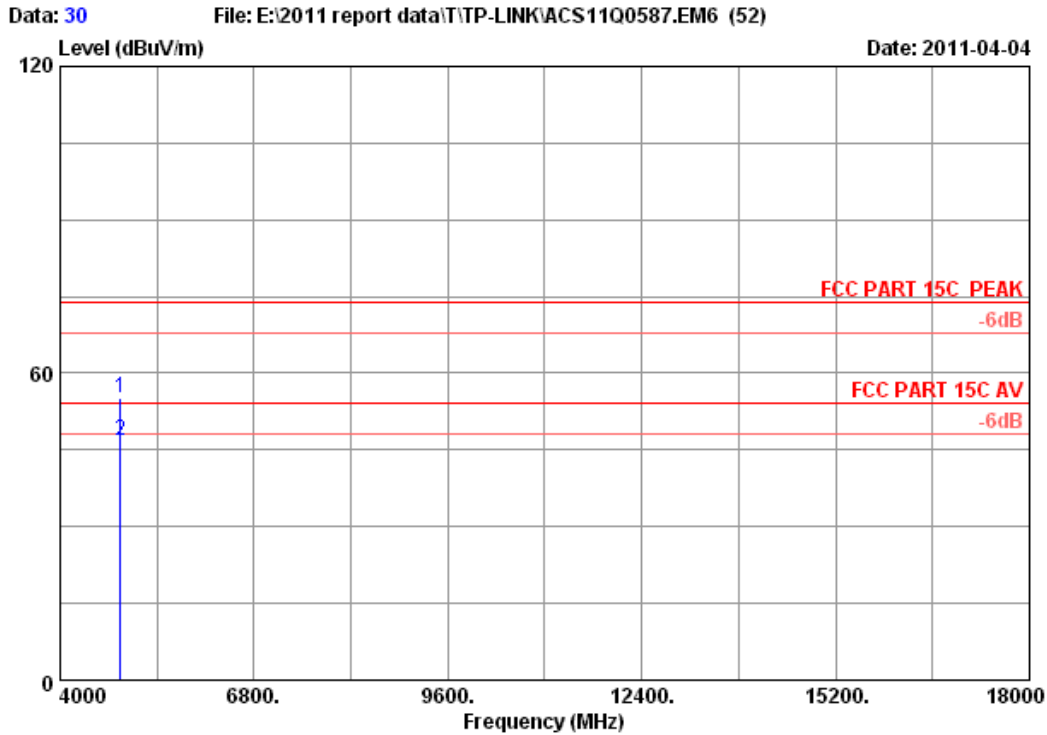
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	10.69	35.03	46.85	56.92	74.00	17.08	Peak
2	4874.000	34.41	10.69	35.03	37.10	47.17	54.00	6.83	Average

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.



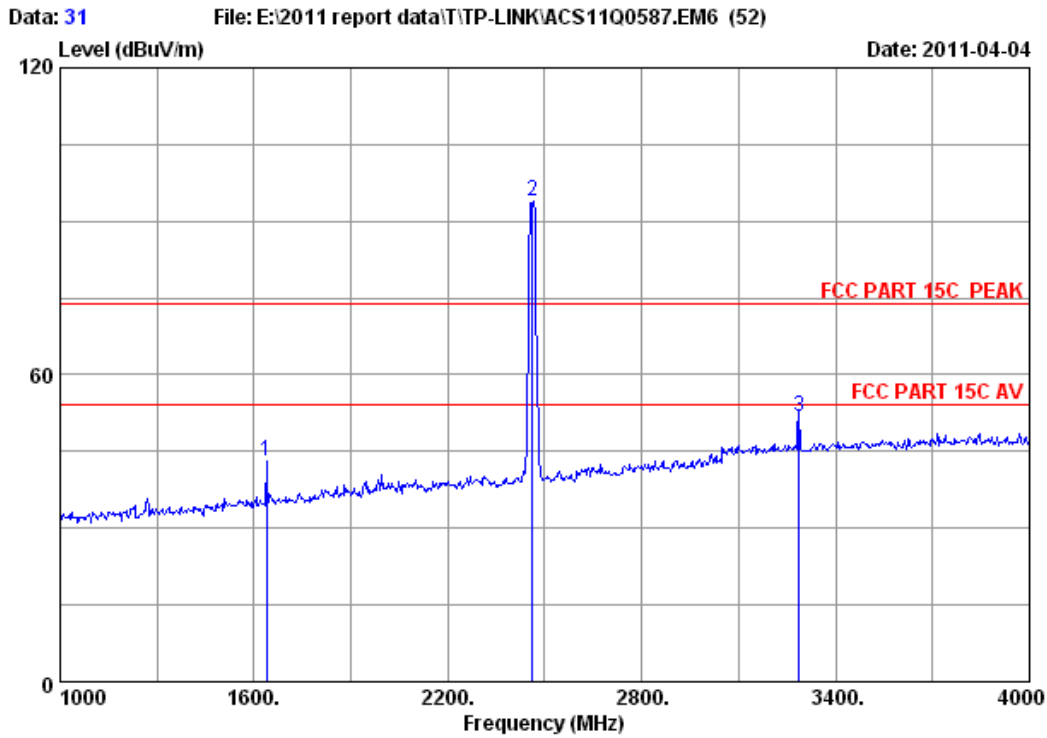
Site no.	: 3m Chamber	Data no. :	29
Dis. / Ant.	: 3m 3115(0911)	Ant. pol. :	HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer :	Sunny-lu
EUT	: 54Mbps Wireless ADSL2+Modem Router		
Power	: DC 9V From Adapter Input AC 230V/50Hz		
Test mode	: IEEE802.11g CH6 2437MHz Tx		
M/N	: TD-W8101G		



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 ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TD-W8101G

	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	10.69	35.03	45.09	55.16	74.00	18.84	Peak
2	4874.000	34.41	10.69	35.03	36.84	46.91	54.00	7.09	Average

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

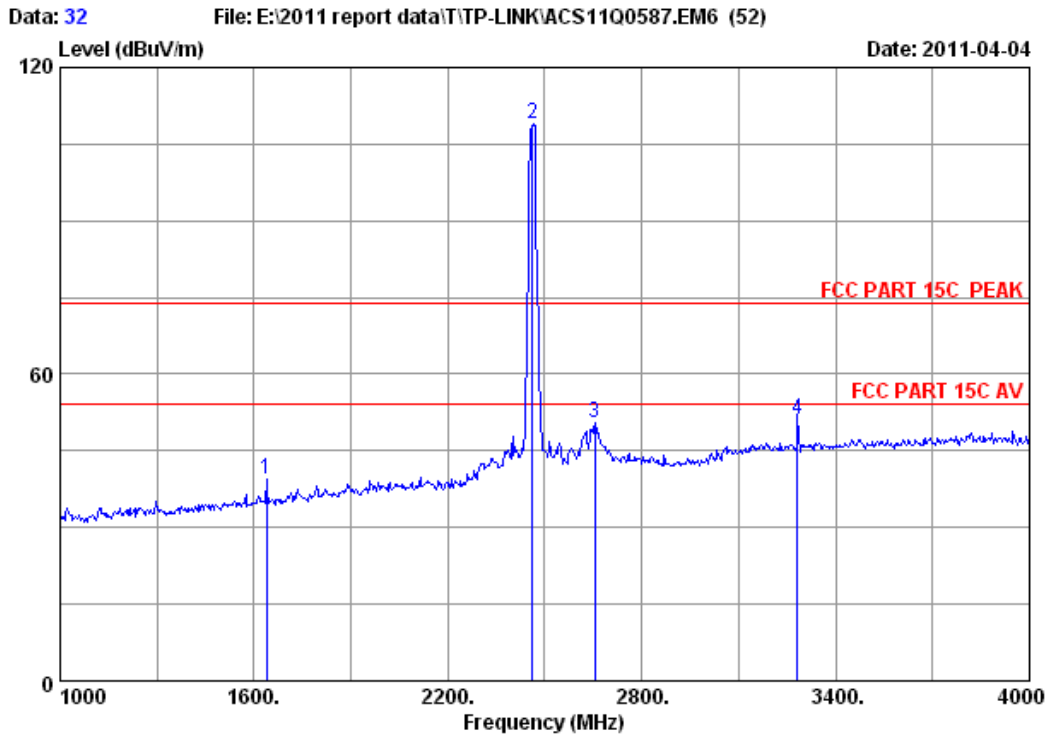


Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TD-W8101G

	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	1639.000	27.24	5.95	36.92	46.97	43.24	74.00	30.76	Peak
2	2462.000	29.48	7.54	36.61	93.57	93.98	74.00	-19.98	Peak
3	3286.000	32.72	8.88	36.20	46.37	51.77	74.00	22.23	Peak

Remarks:

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

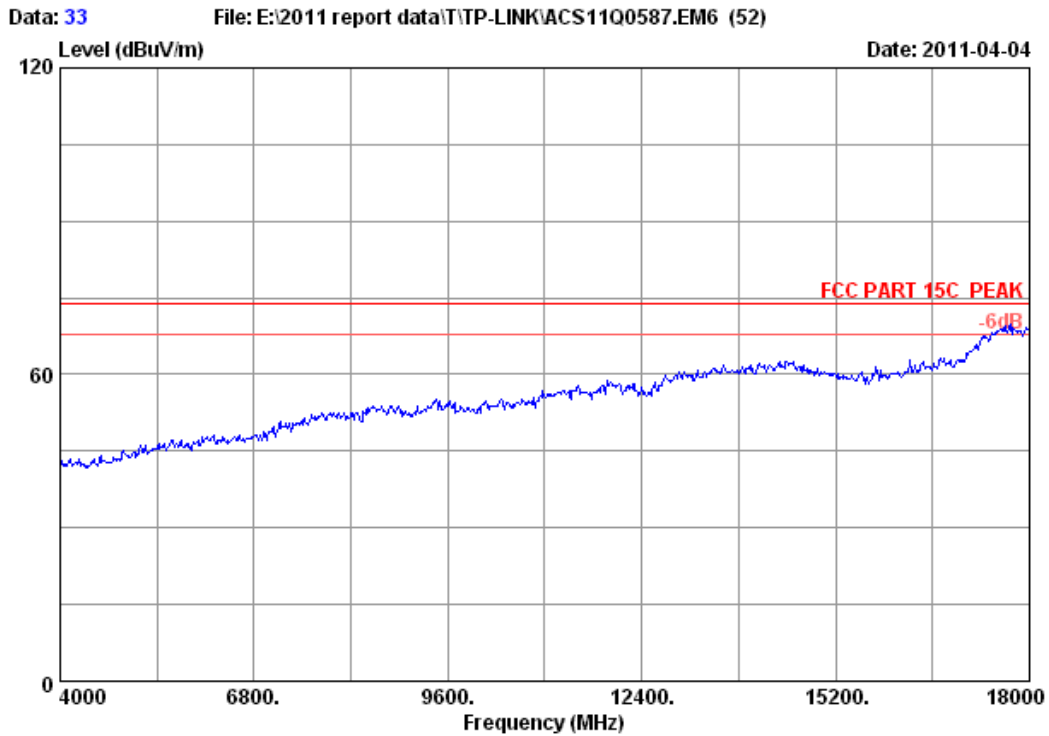


Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TD-W8101G

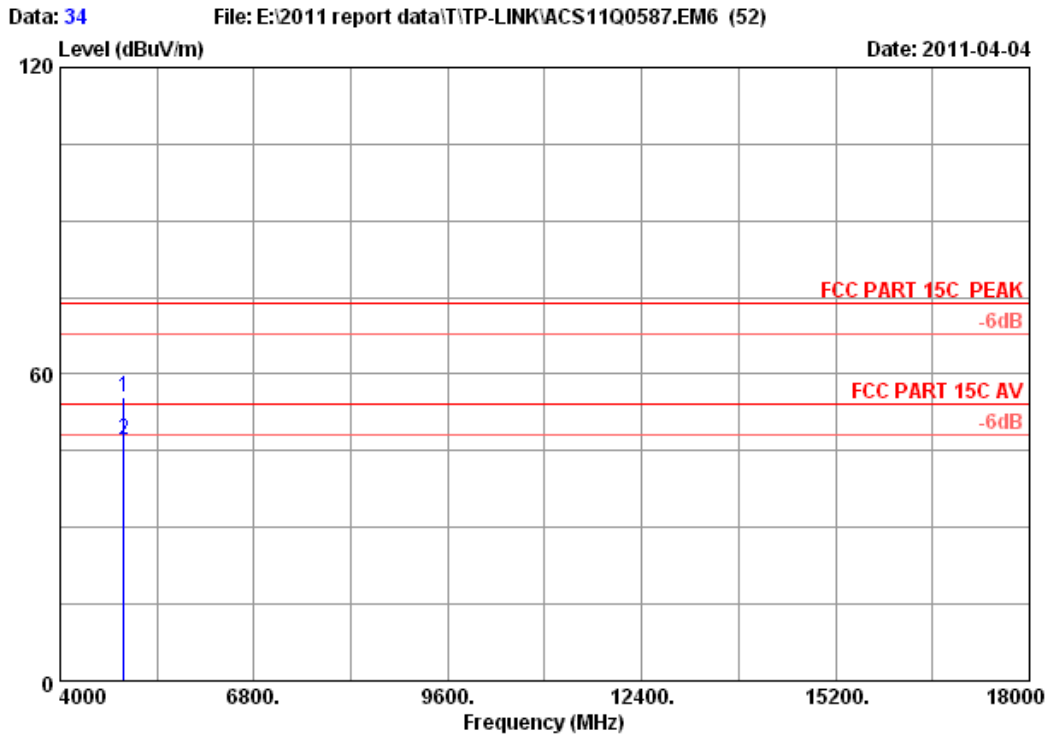
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1639.000	27.24	5.95	36.92	43.02	39.29	74.00	34.71	Peak
2	2462.000	29.48	7.54	36.61	108.60	109.01	74.00	-35.01	Peak
3	2656.000	30.25	7.88	36.57	48.78	50.34	74.00	23.66	Peak
4	3283.000	32.72	8.88	36.20	45.82	51.22	74.00	22.78	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 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 ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TD-W8101G

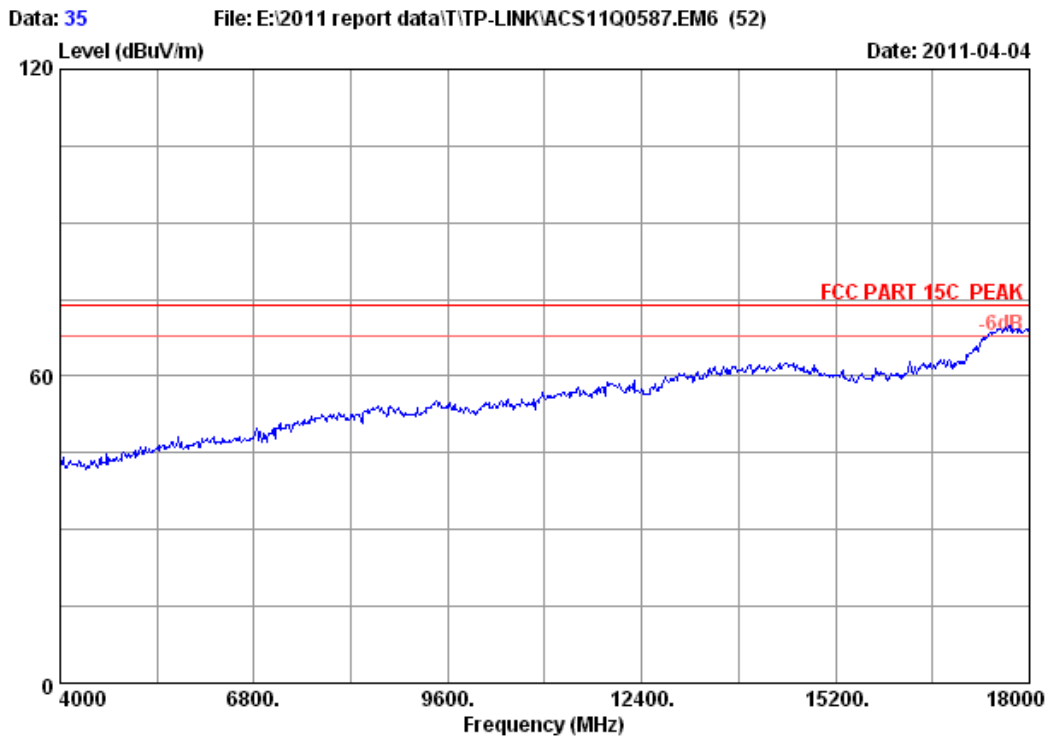


Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TD-W8101G

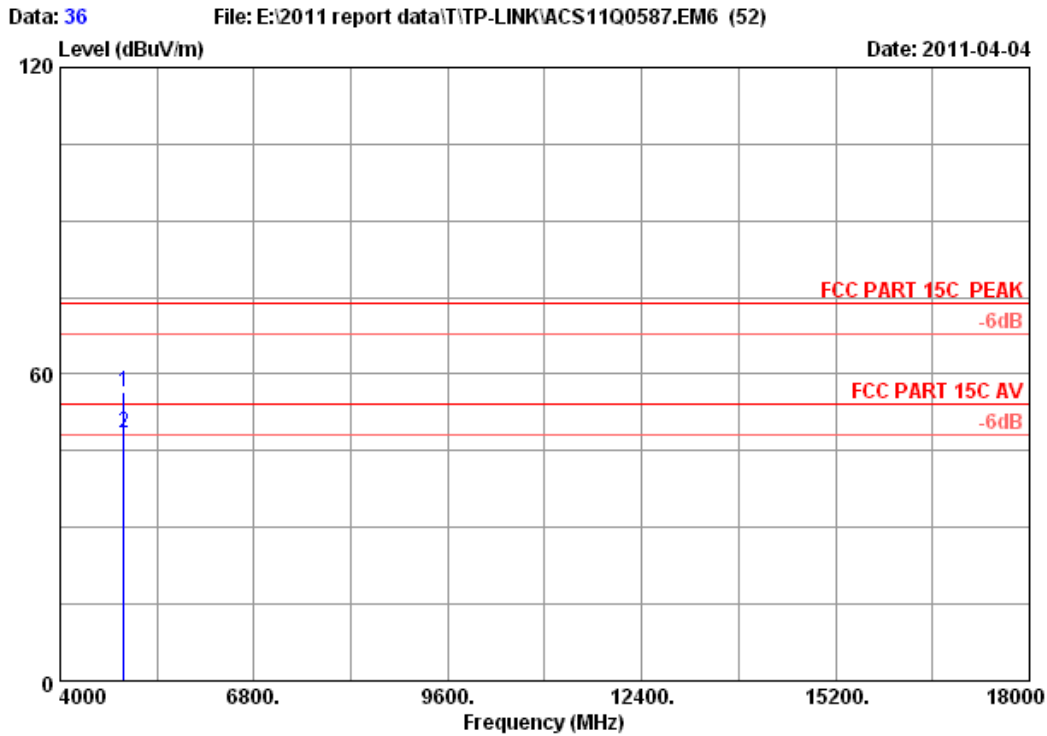
	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	4924.000	34.49	10.76	34.98	45.26	55.53	74.00	18.47	Peak
2	4924.000	34.49	10.76	34.98	36.98	47.25	54.00	6.75	Average

Remarks:

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



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 ADSL2+Modem Router		
Power	: DC 9V From Adapter Input AC 230V/50Hz		
Test mode	: IEEE802.11g CH11 2462MHz Tx		
M/N	: TD-W8101G		



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 ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TD-W8101G

	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	10.76	34.98	46.15	56.42	74.00	17.58	Peak
2	4924.000	34.49	10.76	34.98	38.05	48.32	54.00	5.68	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.

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.08,10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1Year

5.2. Limit

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

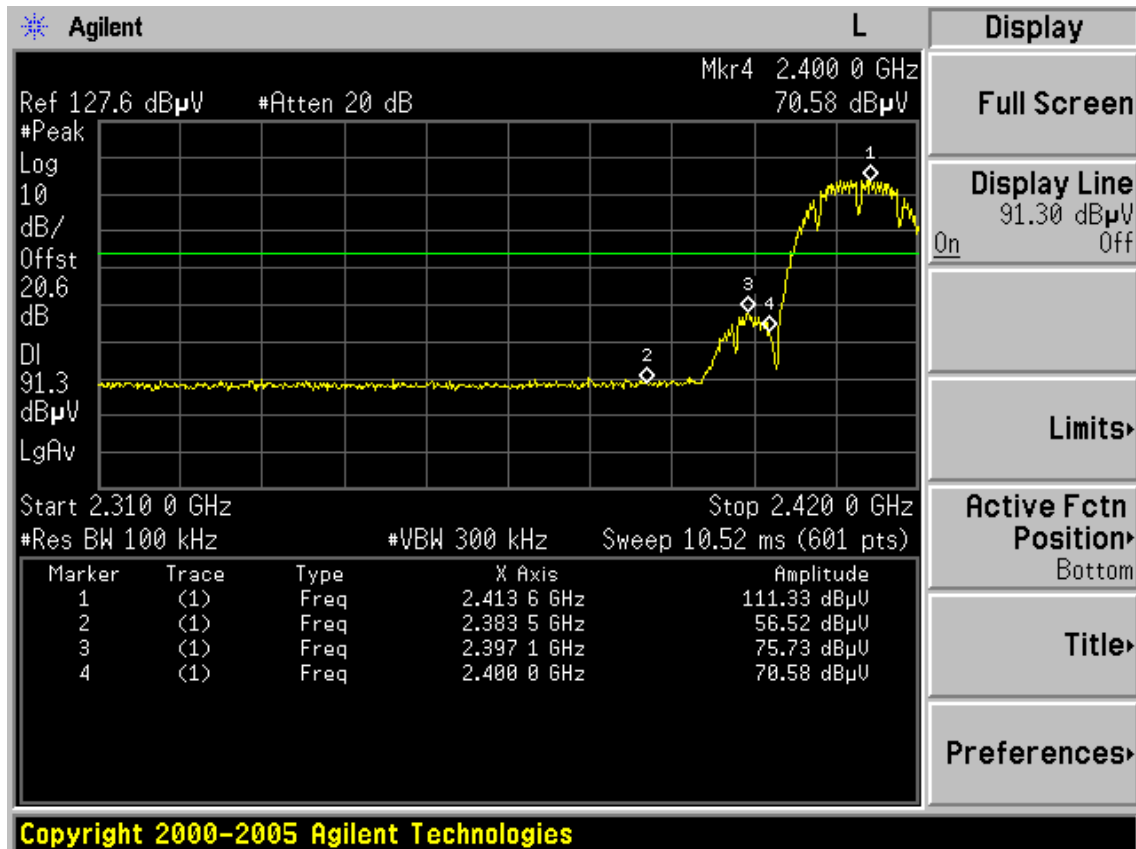
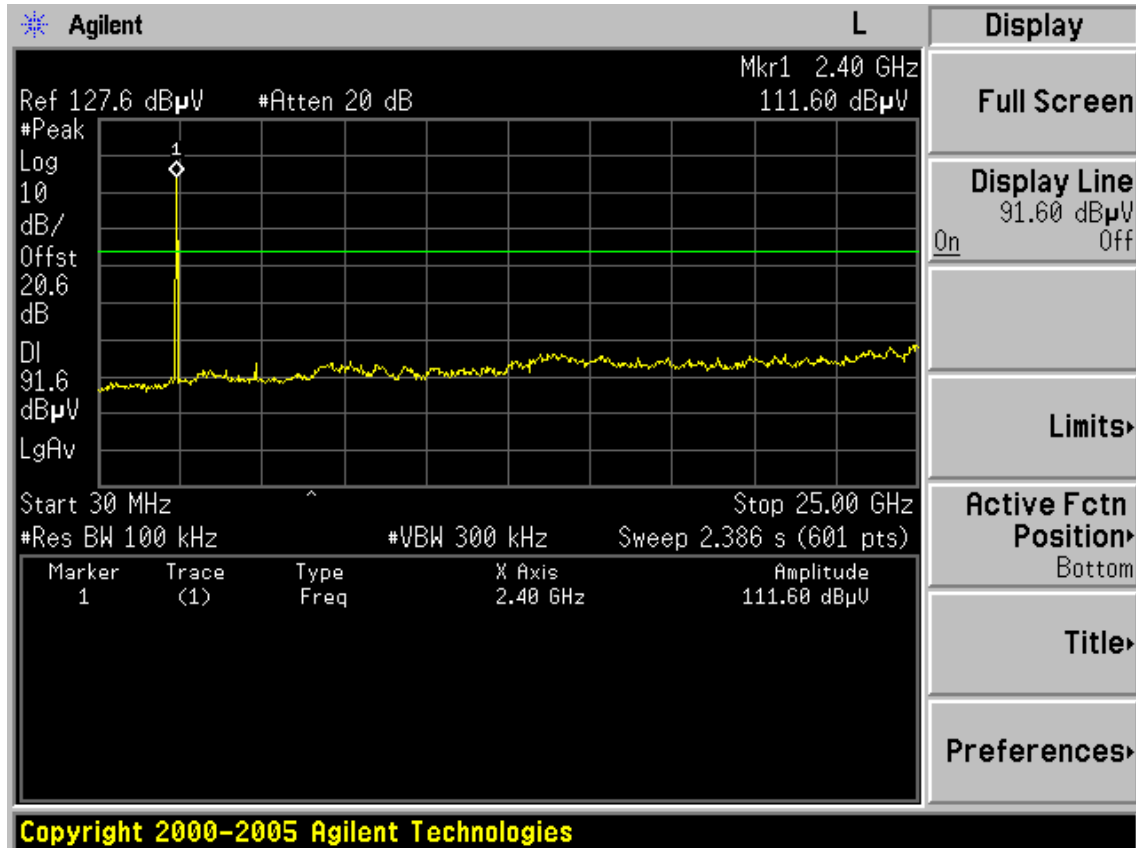
5.3. Test Procedure

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

5.4. Test result

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

Test Mode: IEEE 802.11b TX



Agilent L

Ref 127.6 dB μ V #Atten 20 dB Mkr1 2.44 GHz 110.88 dB μ V

#Peak Log 10 dB/ Offst 20.6 dB DI 90.9 dB μ V LgAv

Start 30 MHz Stop 25.00 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.386 s (601 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.44 GHz	110.88 dB μ V

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Agilent L

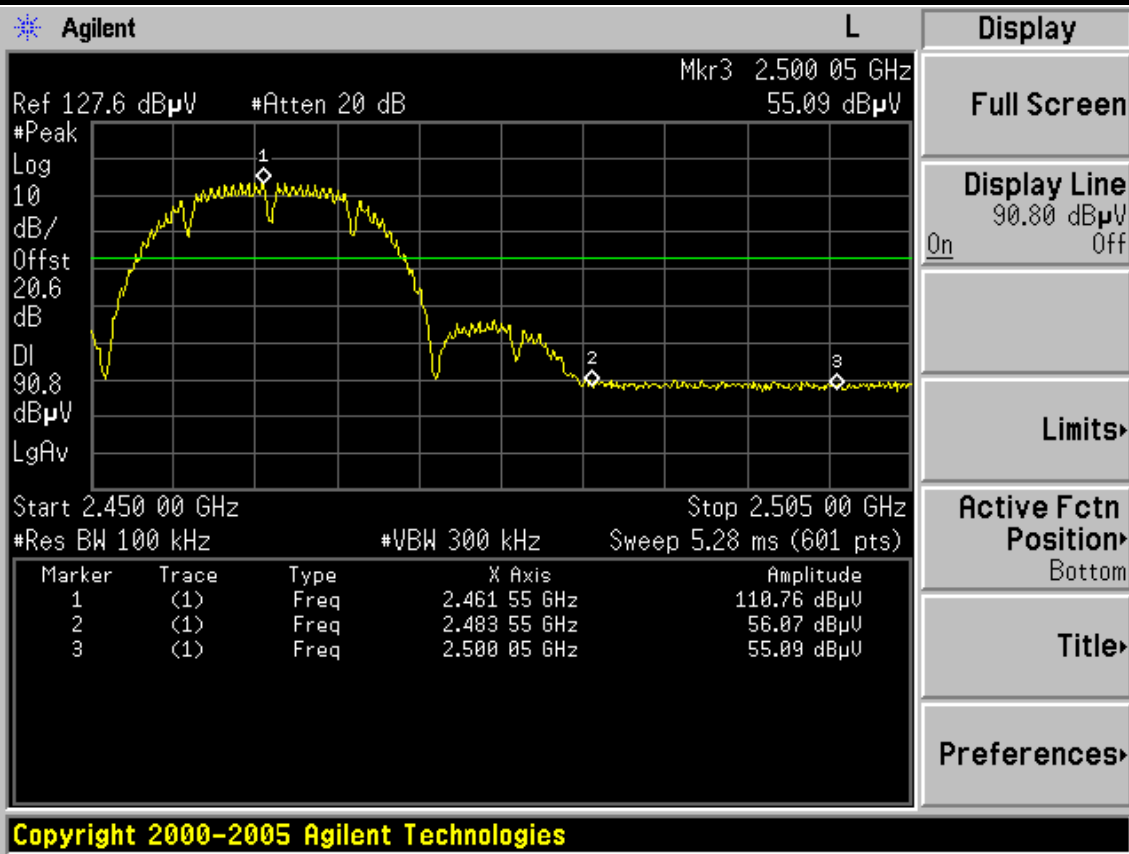
Ref 127.6 dB μ V #Atten 20 dB

#Peak Log 10 dB/ Offst 20.6 dB DI 90.2 dB μ V LgAv

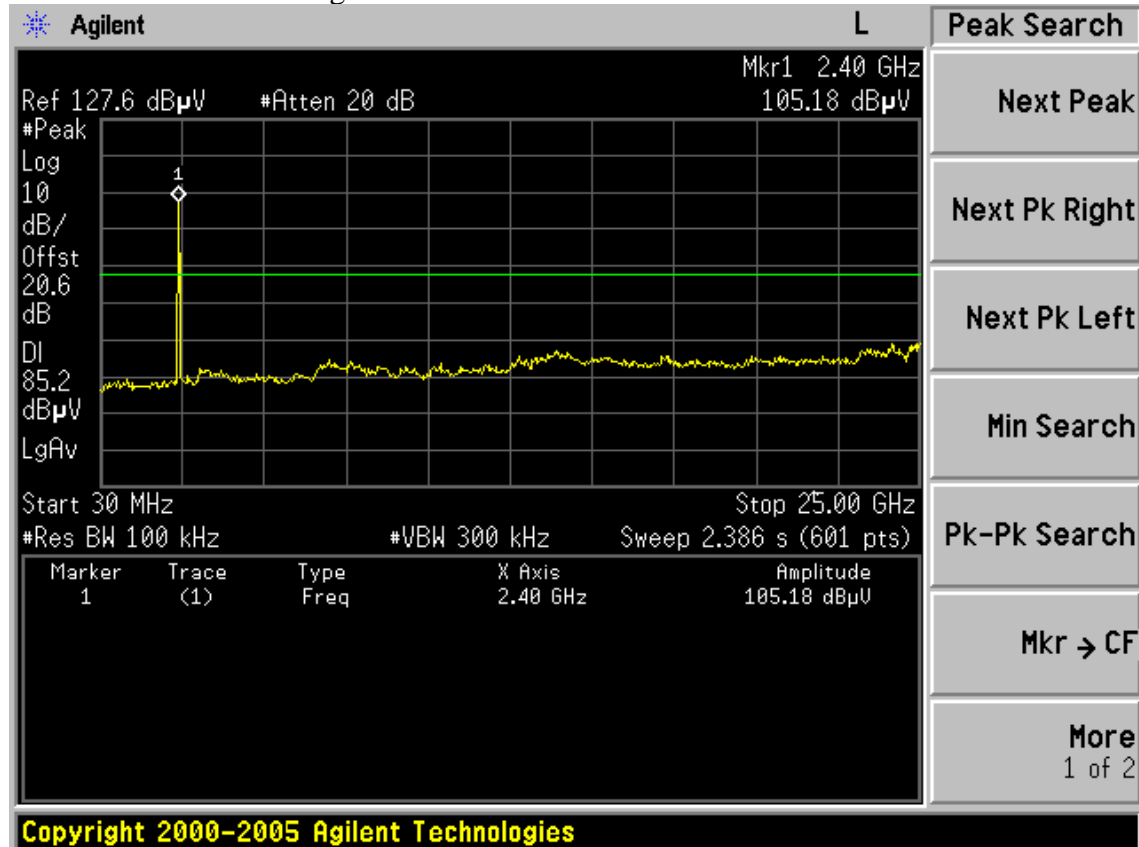
Start 30 MHz Stop 25.00 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.386 s (601 pts)

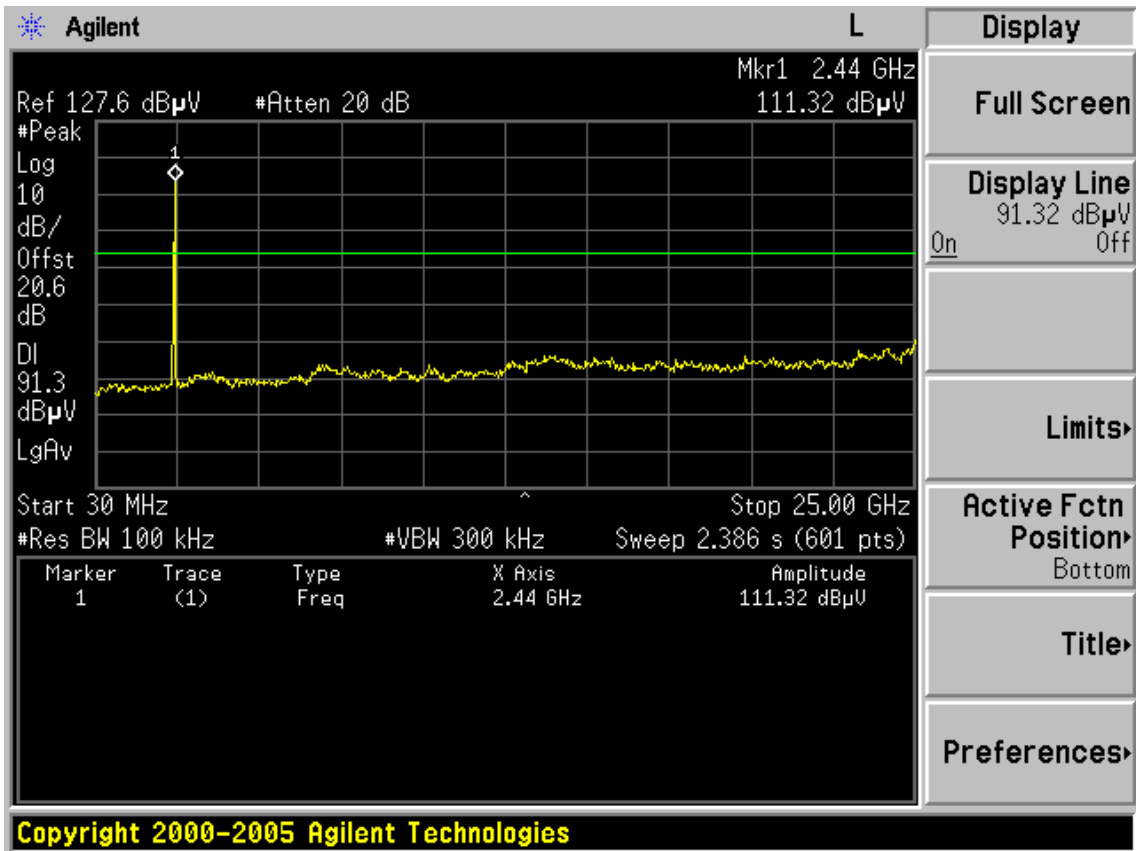
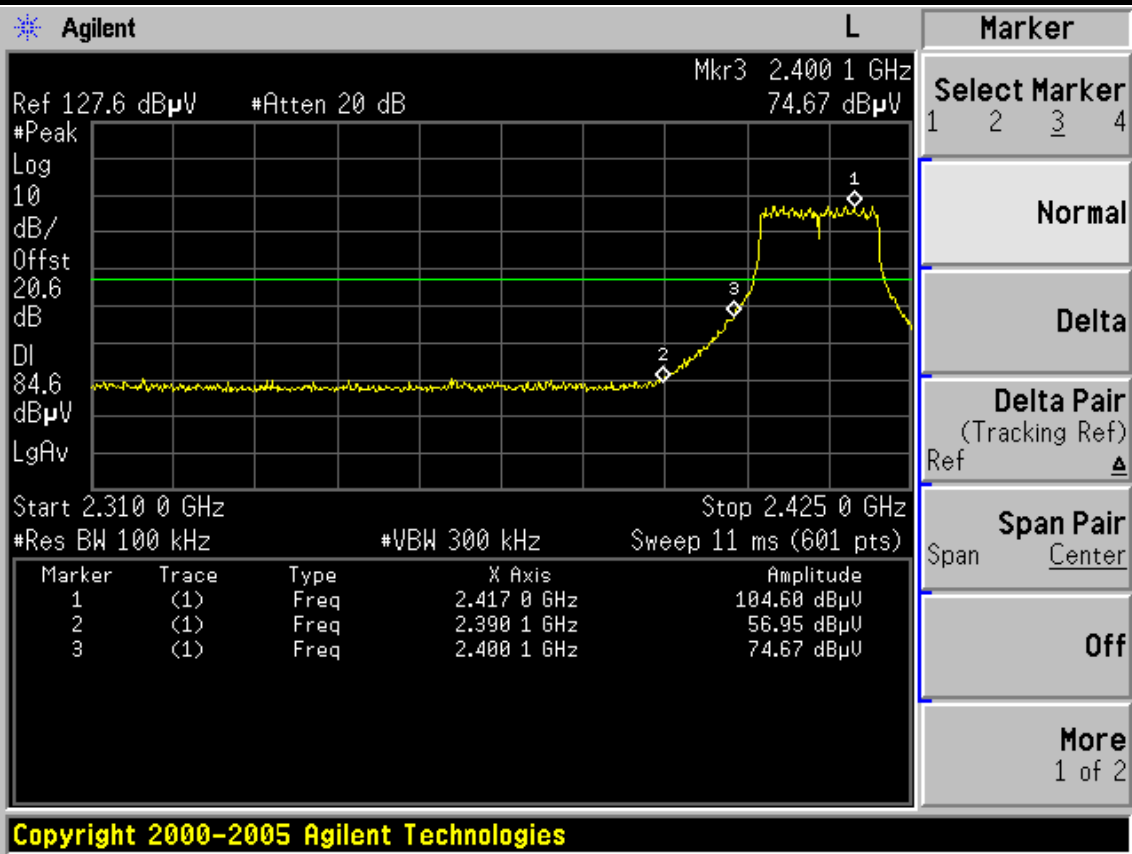
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.44 GHz	110.17 dB μ V

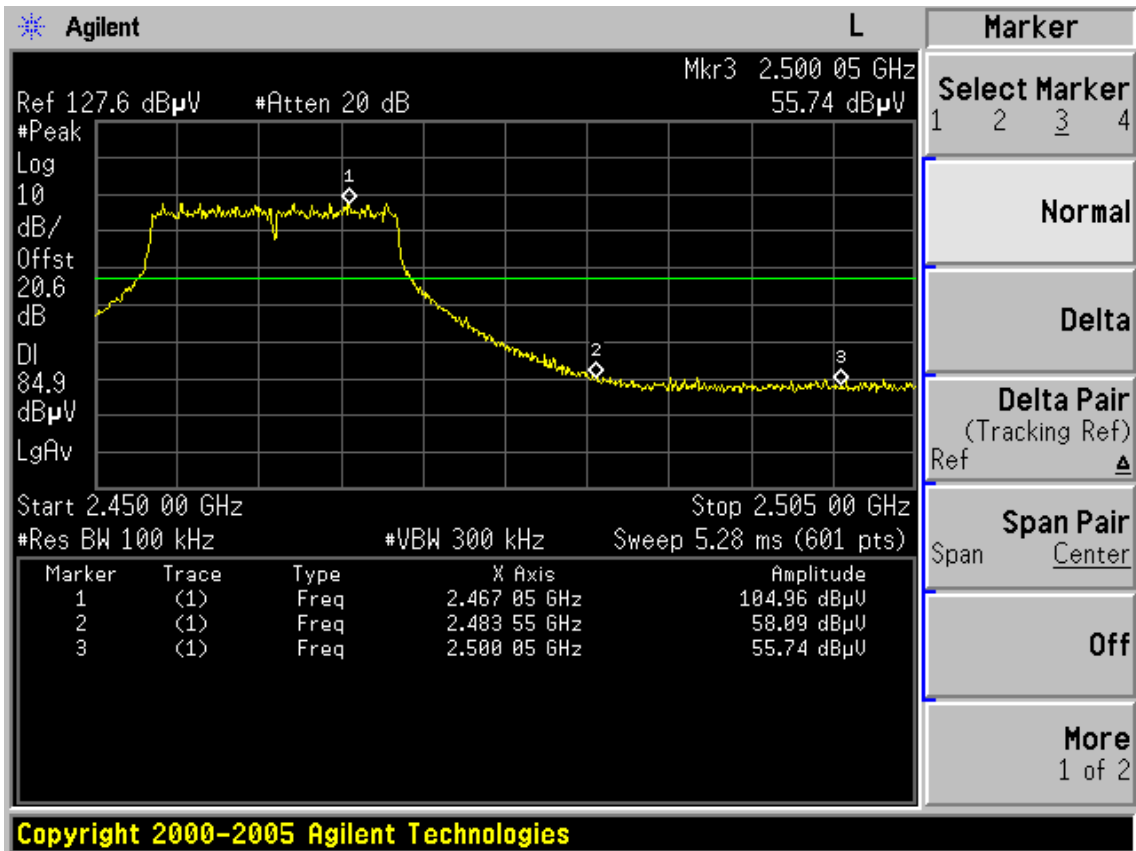
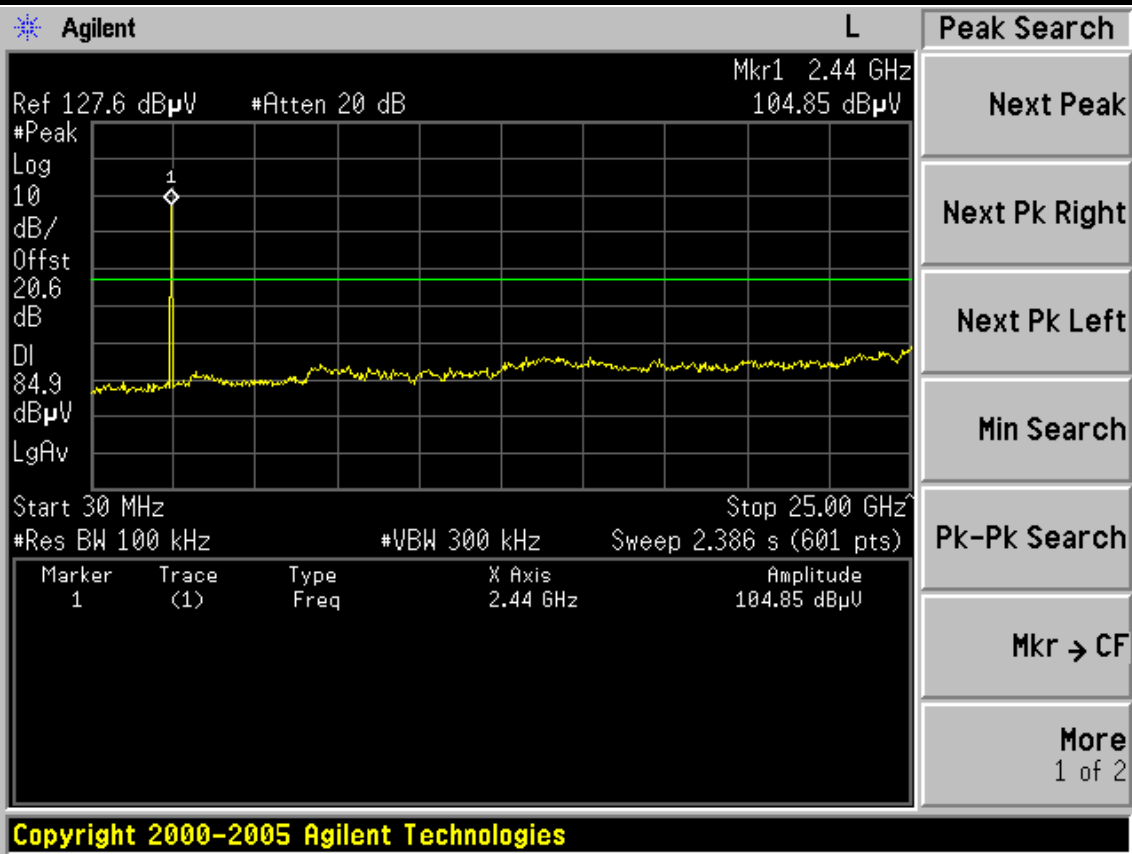
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Test Mode: IEEE 802.11g TX







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.08,10	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 10	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,10	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,10	1 Year

6.2. Limit

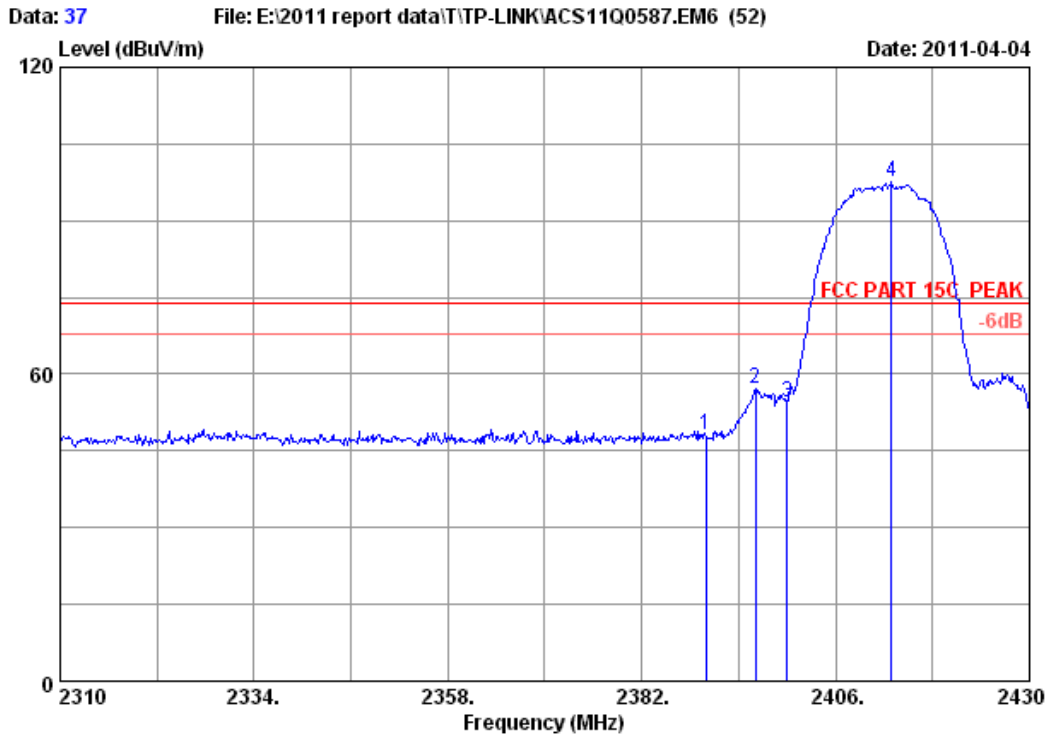
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental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

6.3. Test Produce

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

6.4. Test Results

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

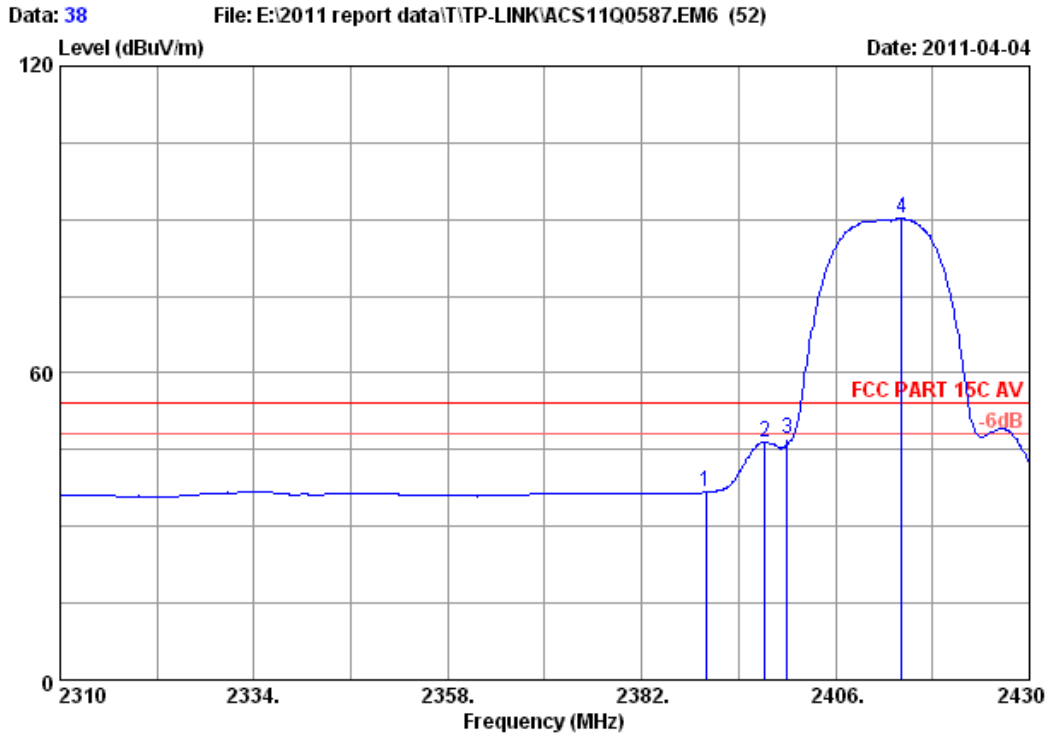


Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	47.94	48.15	74.00	25.85	Peak
2	2396.040	29.44	7.39	36.62	56.91	57.12	74.00	16.88	Peak
3	2400.000	29.44	7.43	36.62	54.38	54.63	74.00	19.37	Peak
4	2412.960	29.45	7.43	36.62	97.28	97.54	74.00	-23.54	Peak

Remarks:

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

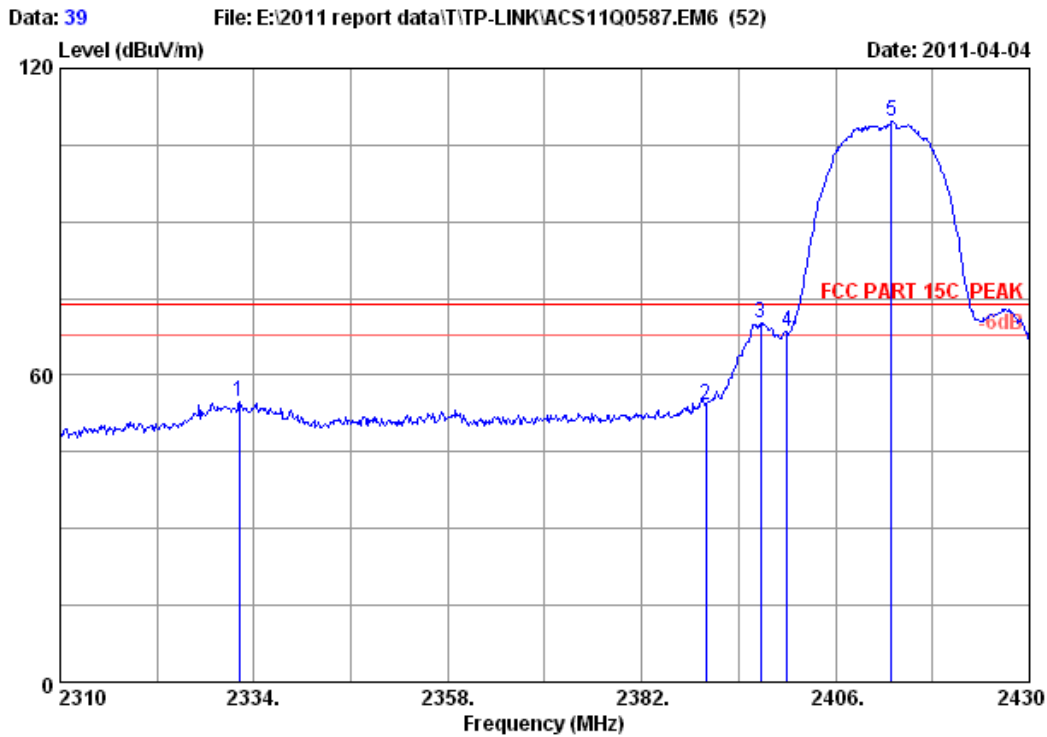


Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TD-W8101G

	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	7.39	36.62	36.49	36.70	54.00	17.30	Average
2	2397.240	29.44	7.39	36.62	46.16	46.37	54.00	7.63	Average
3	2400.000	29.44	7.43	36.62	46.78	47.03	54.00	6.97	Average
4	2414.160	29.45	7.43	36.62	89.96	90.22	54.00	-36.22	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.

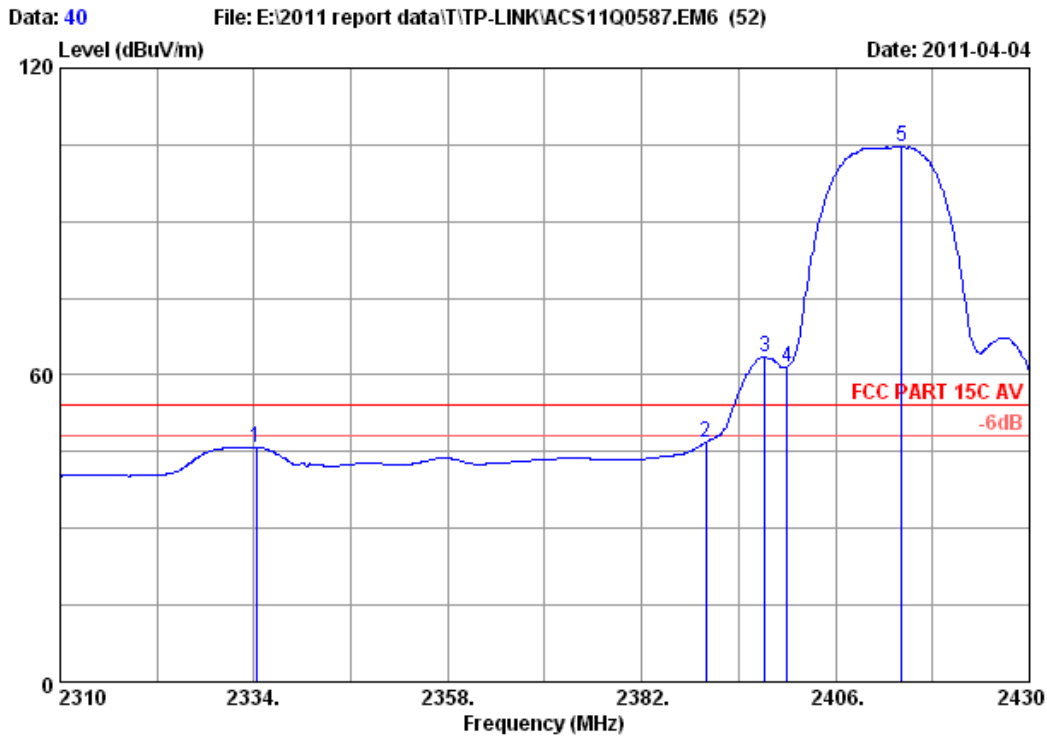


Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TD-W8101G

	Freq.	Ant.	Cable	Amp.	Emission				
	(MHz)	(dB/m)	loss	Factor	Reading	Level	Limits	Margin	Remark
			(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2332.200	29.40	7.27	36.63	54.84	54.88	74.00	19.12	Peak
2	2390.000	29.44	7.39	36.62	54.01	54.22	74.00	19.78	Peak
3	2396.760	29.44	7.39	36.62	70.15	70.36	74.00	3.64	Peak
4	2400.000	29.44	7.43	36.62	68.16	68.41	74.00	5.59	Peak
5	2412.960	29.45	7.43	36.62	109.27	109.53	74.00	-35.53	Peak

Remarks:

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

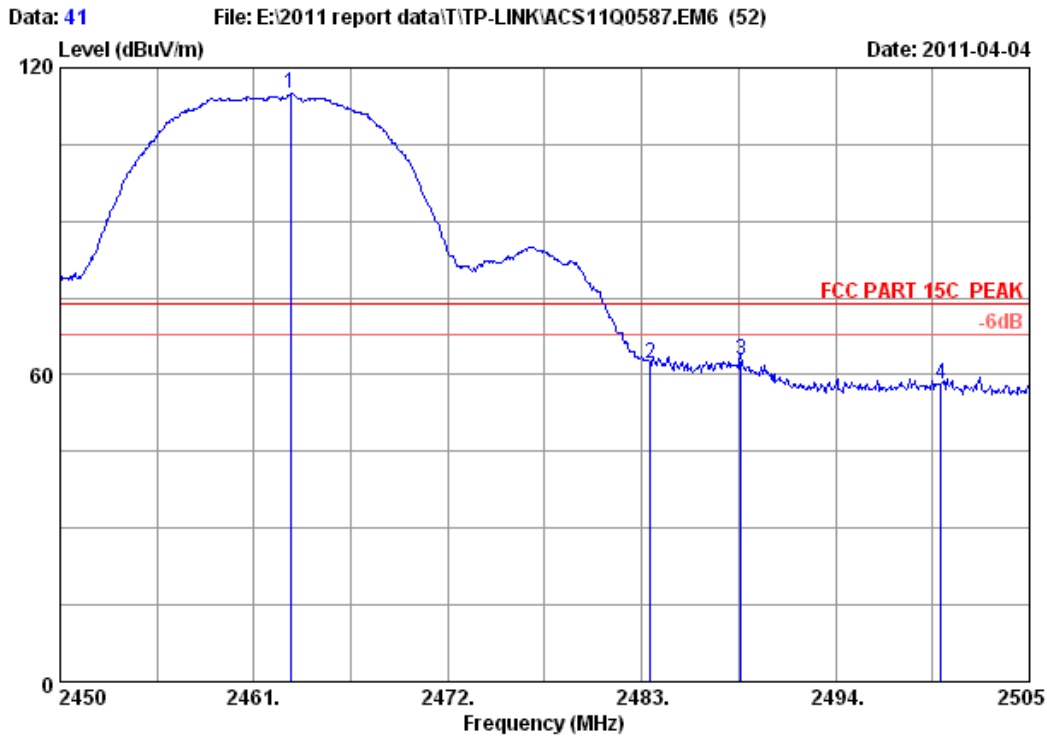


Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TD-W8101G

	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	2334.240	29.40	7.27	36.63	45.87	45.91	54.00	8.09	Average
2	2390.000	29.44	7.39	36.62	46.70	46.91	54.00	7.09	Average
3	2397.240	29.44	7.39	36.62	63.19	63.40	54.00	-9.40	Average
4	2400.000	29.44	7.43	36.62	61.40	61.65	54.00	-7.65	Average
5	2414.160	29.45	7.43	36.62	104.53	104.79	54.00	-50.79	Average

Remarks:

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

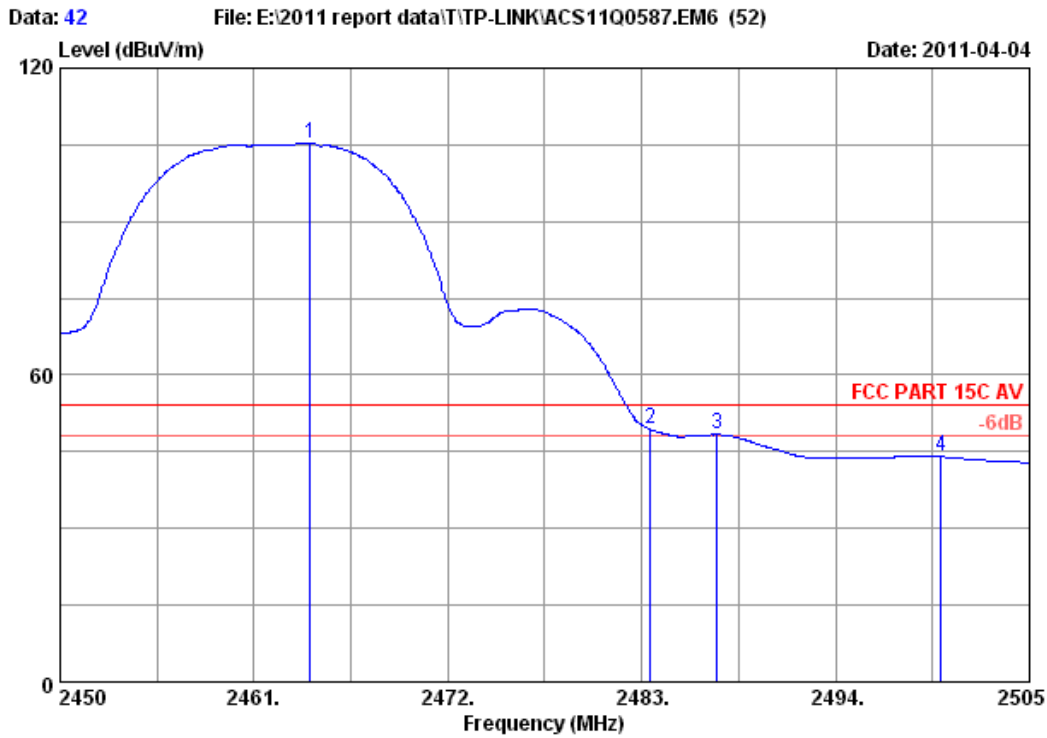


Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2463.090	29.48	7.54	36.61	114.63	115.04	74.00	-41.04	Peak
2	2483.500	29.49	7.58	36.60	61.66	62.13	74.00	11.87	Peak
3	2488.610	29.50	7.58	36.60	62.45	62.93	74.00	11.07	Peak
4	2500.000	29.50	7.62	36.60	57.65	58.17	74.00	15.83	Peak

Remarks:

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

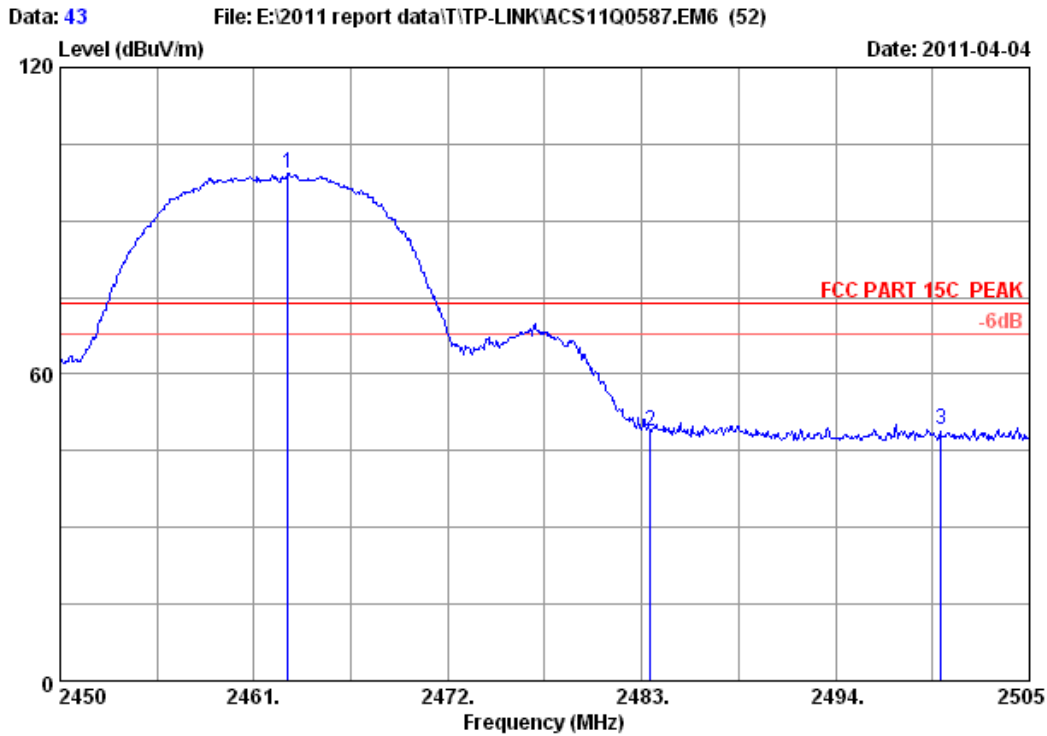


Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TD-W8101G

	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	2464.190	29.48	7.54	36.61	104.85	105.26	54.00	-51.26	Average
2	2483.500	29.49	7.58	36.60	48.88	49.35	54.00	4.65	Average
3	2487.290	29.49	7.58	36.60	47.85	48.32	54.00	5.68	Average
4	2500.000	29.50	7.62	36.60	43.45	43.97	54.00	10.03	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.

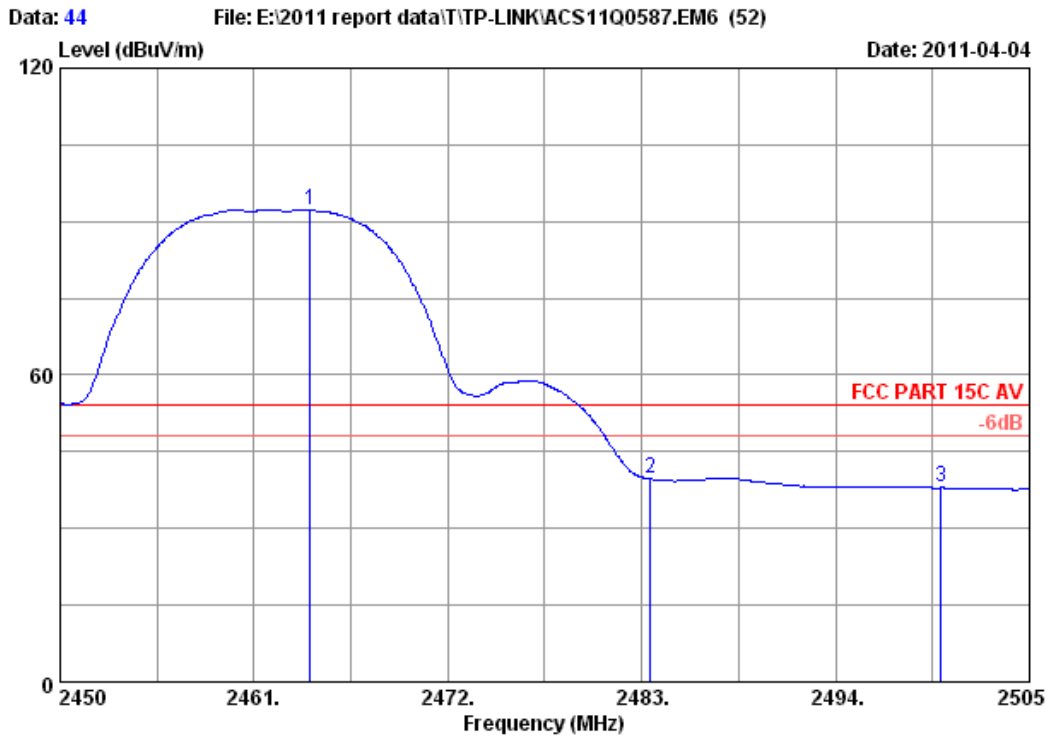


Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TD-W8101G

	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	2462.925	29.48	7.54	36.61	98.96	99.37	74.00	-25.37	Peak
2	2483.500	29.49	7.58	36.60	48.49	48.96	74.00	25.04	Peak
3	2500.000	29.50	7.62	36.60	48.56	49.08	74.00	24.92	Peak

Remarks:

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

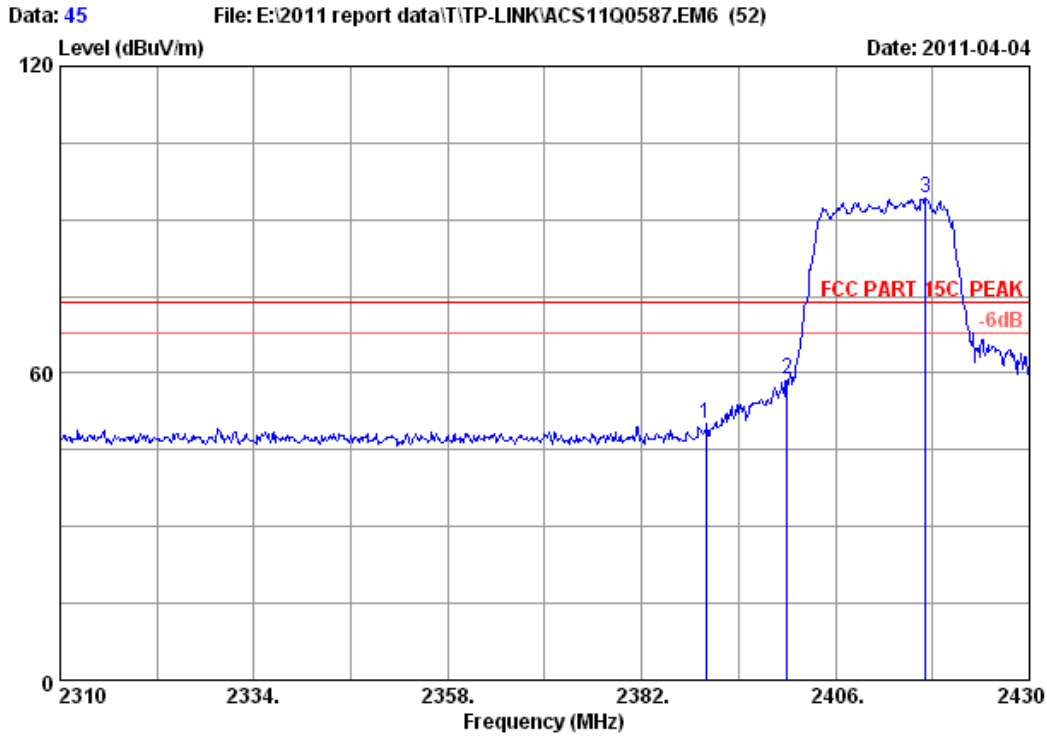


Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TD-W8101G

	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	2464.190	29.48	7.54	36.61	91.87	92.28	54.00	-38.28	Average
2	2483.500	29.49	7.58	36.60	39.20	39.67	54.00	14.33	Average
3	2500.000	29.50	7.62	36.60	37.42	37.94	54.00	16.06	Average

Remarks:

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

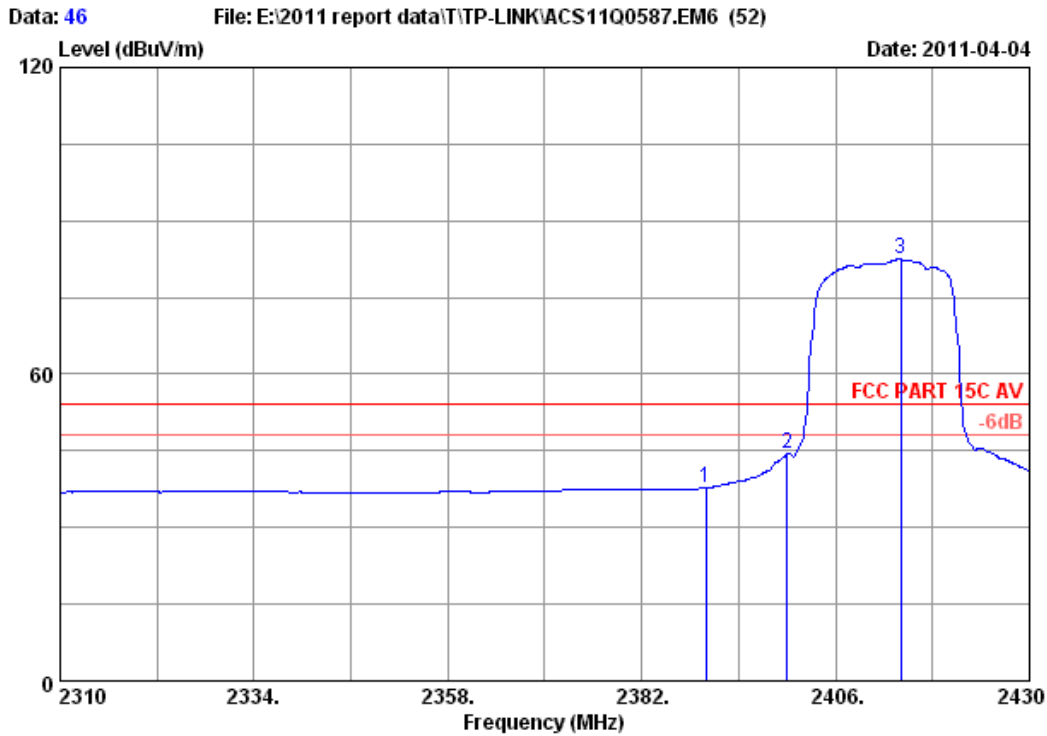


Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	49.97	50.18	74.00	23.82	Peak
2	2400.000	29.44	7.43	36.62	58.59	58.84	74.00	15.16	Peak
3	2417.160	29.45	7.43	36.61	93.88	94.15	74.00	-20.15	Peak

Remarks:

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

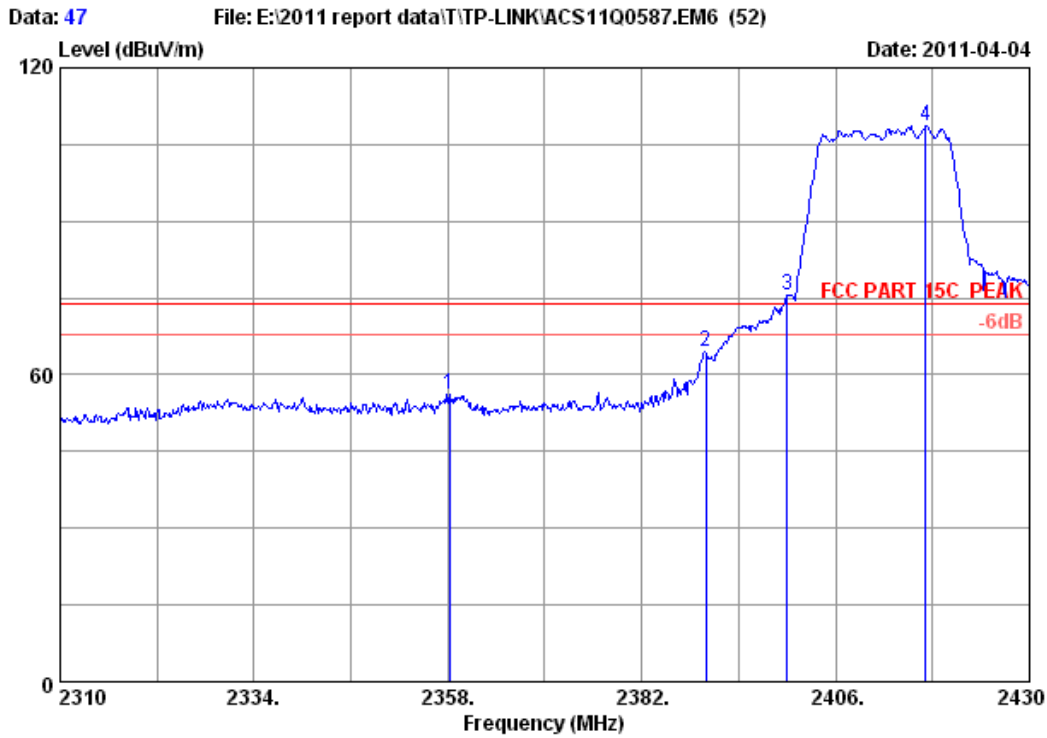


Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	37.51	37.72	54.00	16.28	Average
2	2400.000	29.44	7.43	36.62	44.18	44.43	54.00	9.57	Average
3	2414.040	29.45	7.43	36.62	82.22	82.48	54.00	-28.48	Average

Remarks:

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

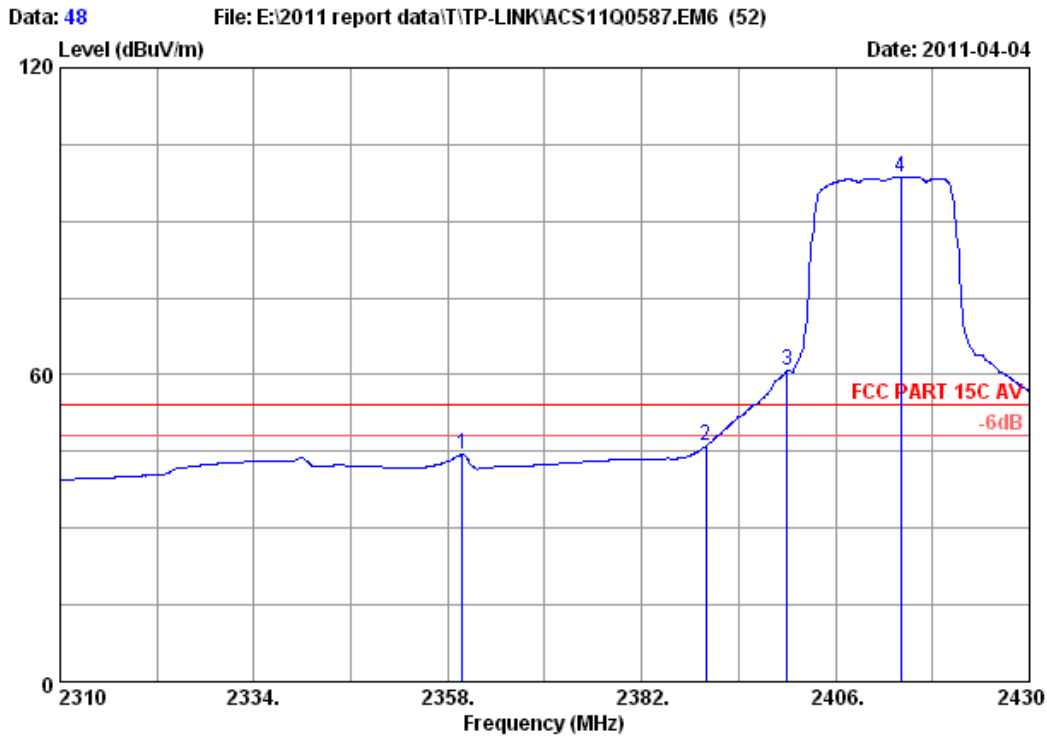


Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2358.240	29.42	7.31	36.63	55.91	56.01	74.00	17.99	Peak
2	2390.000	29.44	7.39	36.62	64.42	64.63	74.00	9.37	Peak
3	2400.000	29.44	7.43	36.62	75.18	75.43	74.00	-1.43	Peak
4	2417.160	29.45	7.43	36.61	108.36	108.63	74.00	-34.63	Peak

Remarks:

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

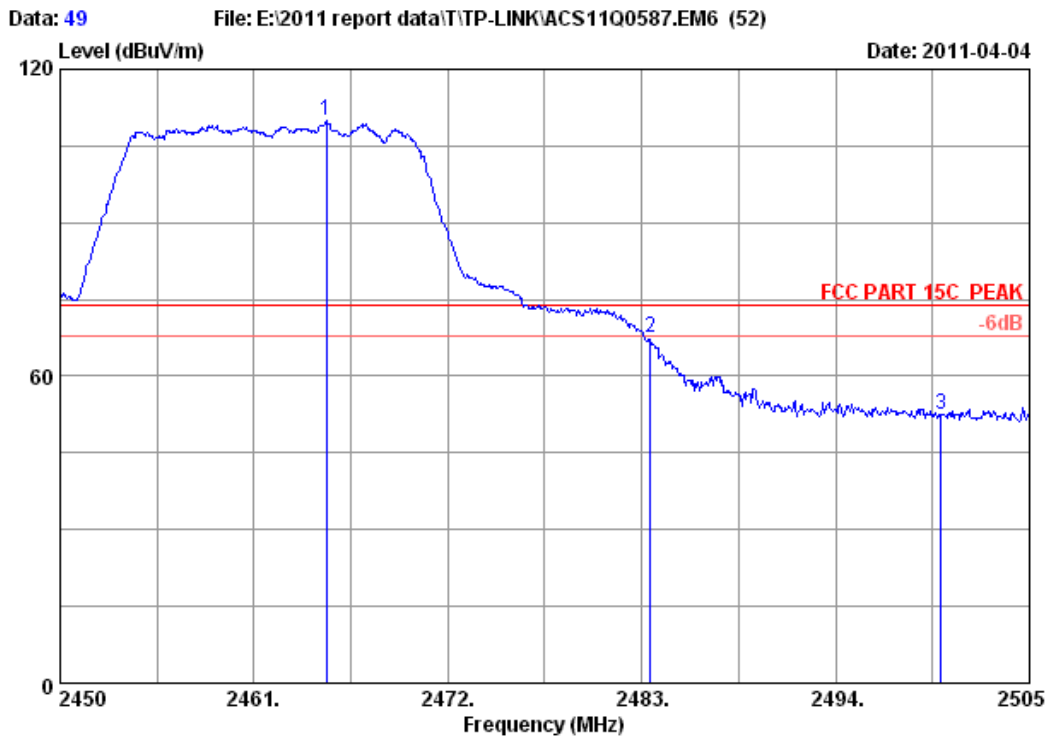


Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2359.800	29.42	7.35	36.63	44.22	44.36	54.00	9.64	Average
2	2390.000	29.44	7.39	36.62	45.91	46.12	54.00	7.88	Average
3	2400.000	29.44	7.43	36.62	60.59	60.84	54.00	-6.84	Average
4	2414.040	29.45	7.43	36.62	98.51	98.77	54.00	-44.77	Average

Remarks:

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

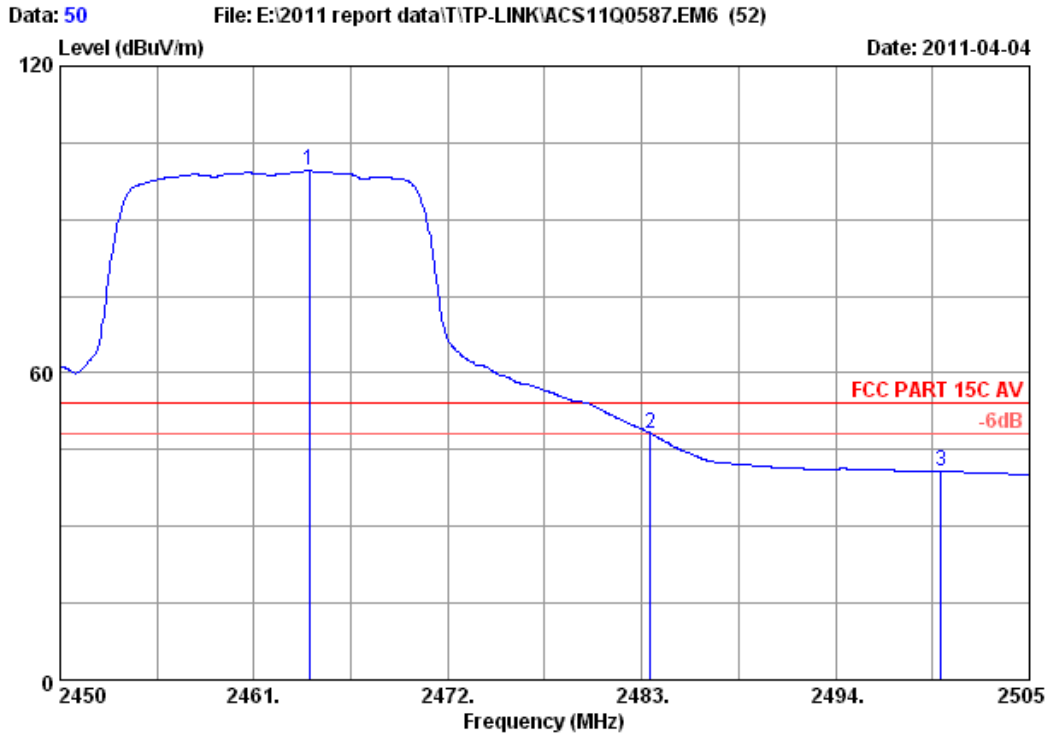


Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2465.125	29.48	7.54	36.61	109.48	109.89	74.00	-35.89	Peak
2	2483.500	29.49	7.58	36.60	66.89	67.36	74.00	6.64	Peak
3	2500.000	29.50	7.62	36.60	52.04	52.56	74.00	21.44	Peak

Remarks:

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

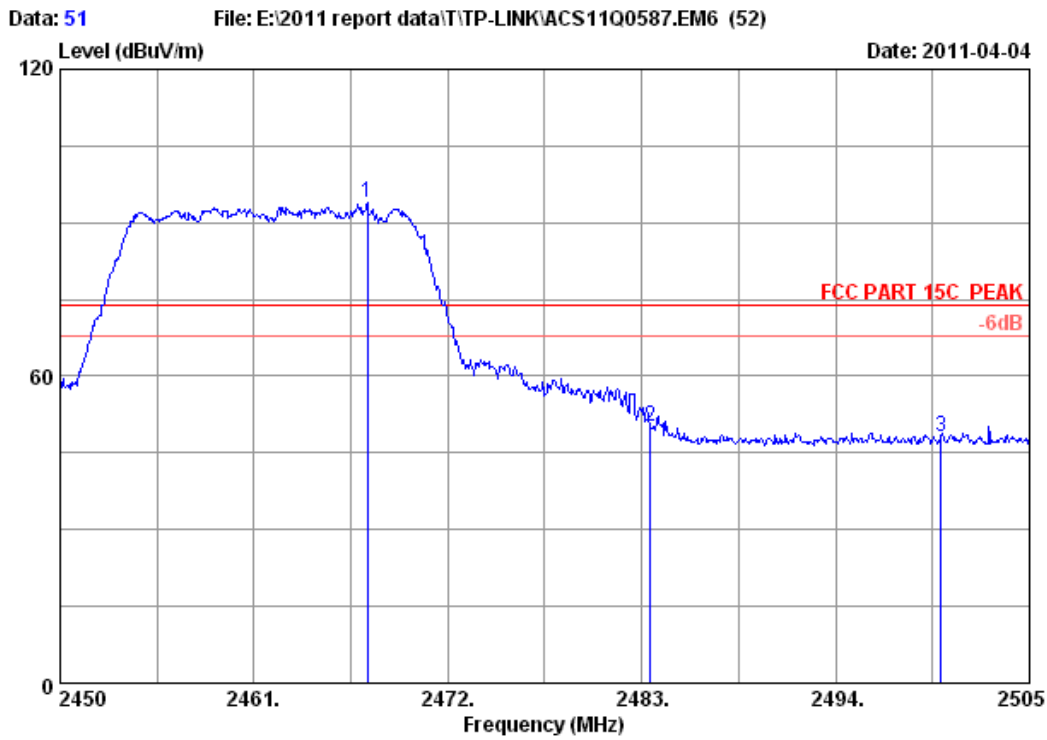


Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TD-W8101G

	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	2464.135	29.48	7.54	36.61	99.06	99.47	54.00	-45.47	Average
2	2483.500	29.49	7.58	36.60	47.74	48.21	54.00	5.79	Average
3	2500.000	29.50	7.62	36.60	40.35	40.87	54.00	13.13	Average

Remarks:

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

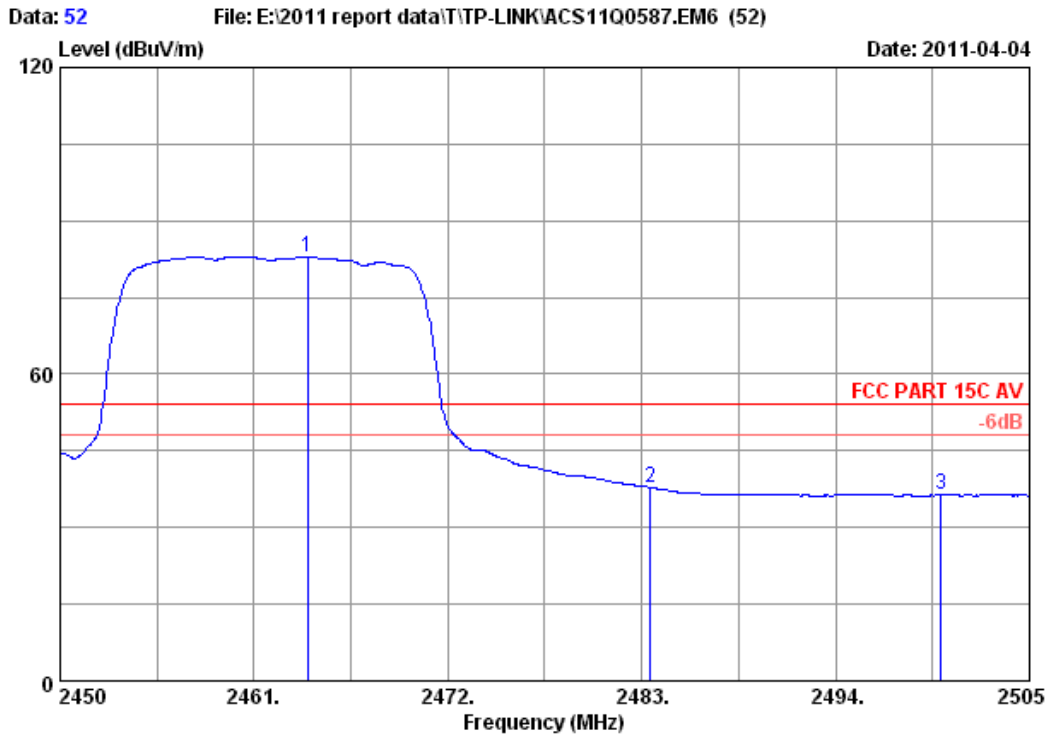


Site no. : 3m Chamber Data no. : 51
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 54Mbps Wireless ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TD-W8101G

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.435	29.48	7.54	36.60	93.37	93.79	74.00	-19.79	Peak
2	2483.500	29.49	7.58	36.60	49.71	50.18	74.00	23.82	Peak
3	2500.000	29.50	7.62	36.60	47.51	48.03	74.00	25.97	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 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 ADSL2+Modem Router
 Power : DC 9V From Adapter Input AC 230V/50Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TD-W8101G

	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	2464.025	29.48	7.54	36.61	82.55	82.96	54.00	-28.96	Average
2	2483.500	29.49	7.58	36.60	37.38	37.85	54.00	16.15	Average
3	2500.000	29.50	7.62	36.60	35.76	36.28	54.00	17.72	Average

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 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.08,10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1Year

7.2. Limit

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

7.3. Test Procedure

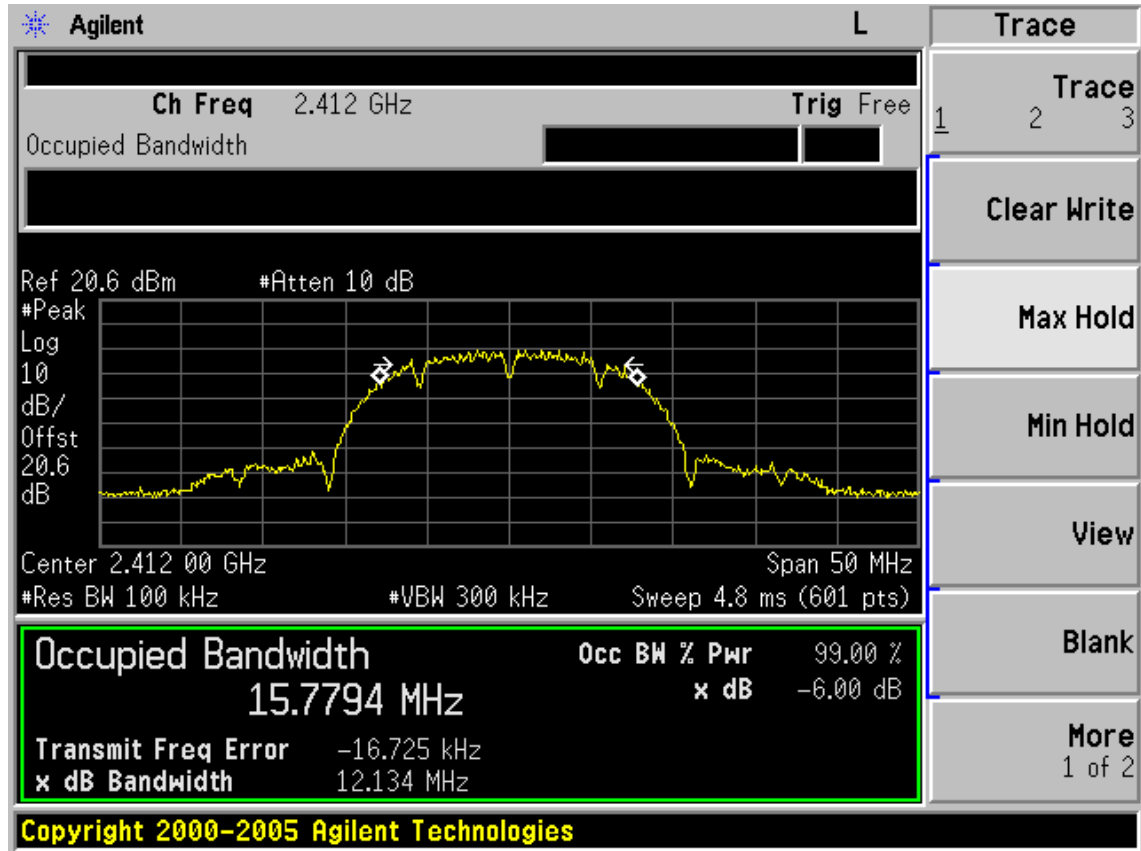
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4. Test Results

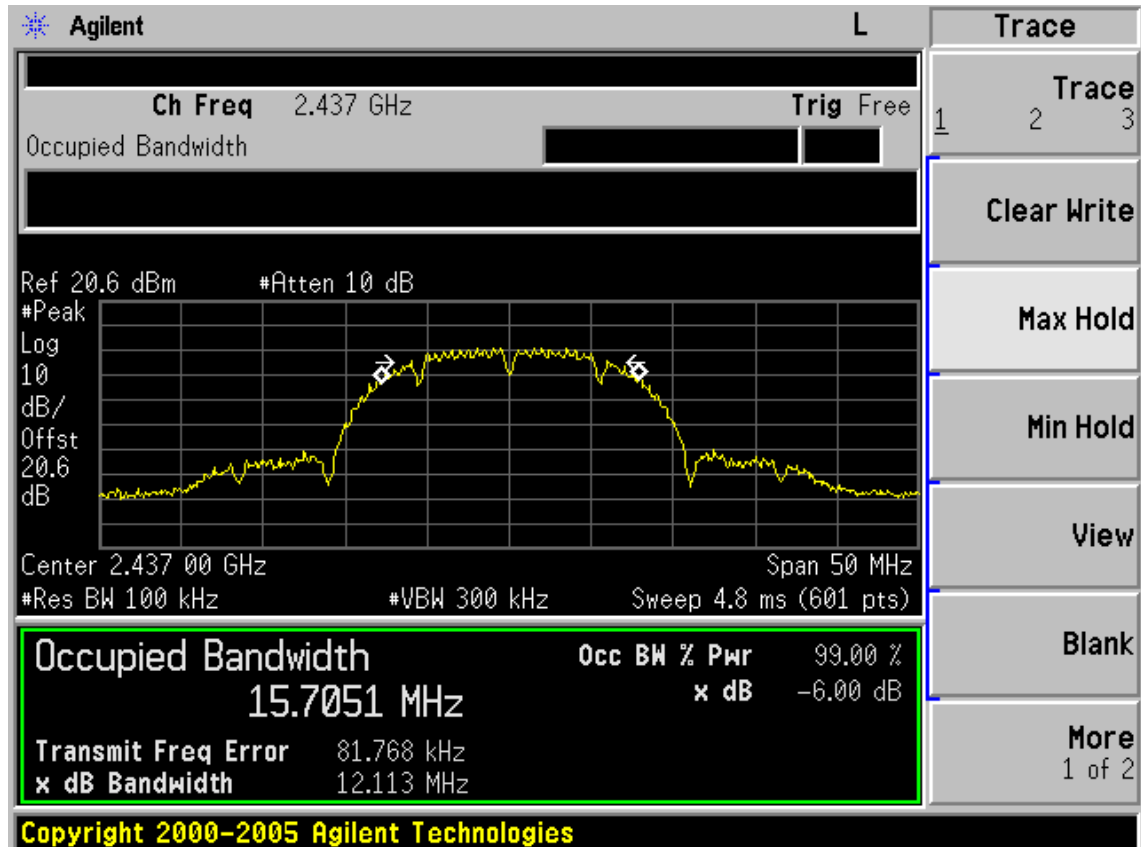
EUT: 54Mbps Wireless ADSL2+Modem Router		
M/N: TD-W8101G		
Test date:2011-04-06	Pressure: 101.8 kpa	Humidity: 52 %
Tested by:Sunny-Lu	Test site: RF Site	Temperature : 23.6 °C

Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 3 dBi
Test Mode	CH	6dB bandwidth (MHz)	Limit (KHz)
11b	CH1	12.134	>500
	CH6	12.113	>500
	CH11	12.607	>500
11g	CH1	16.605	>500
	CH6	16.550	>500
	CH11	16.601	>500
Conclusion : PASS			

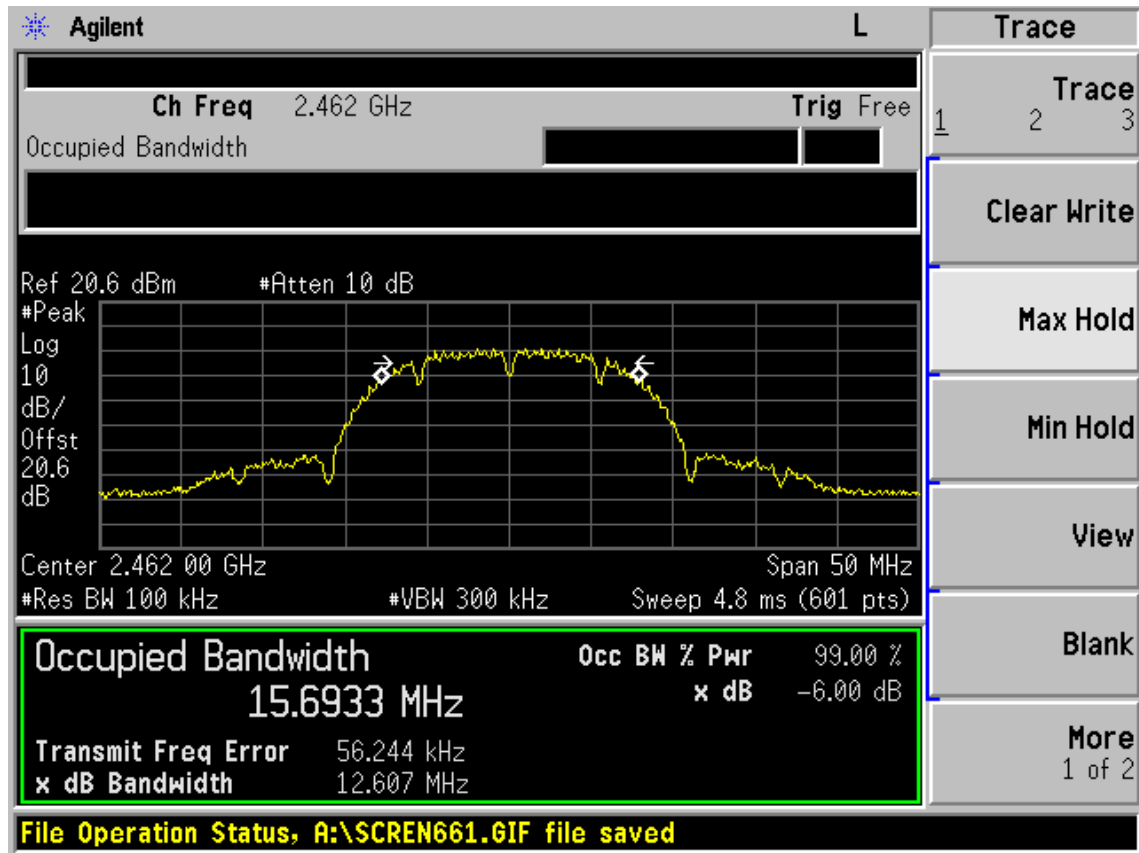
Test Mode: IEEE 802.11b TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

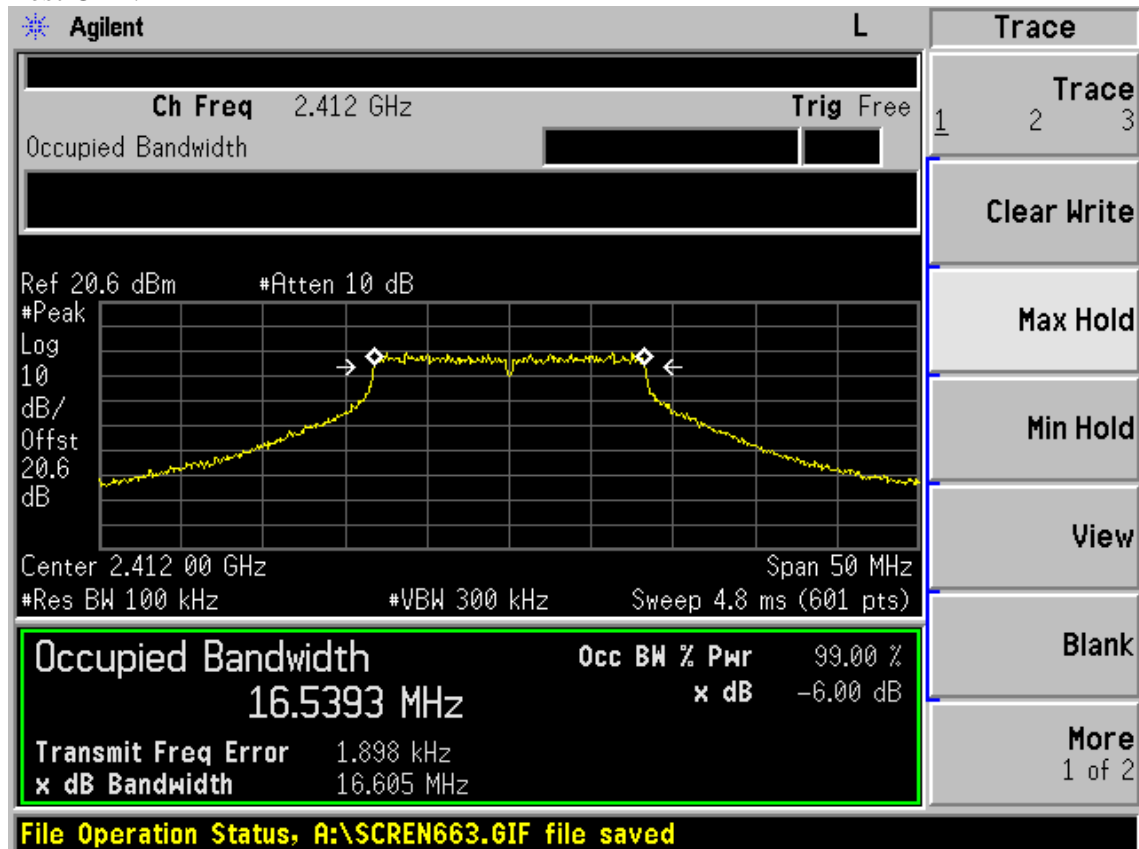


Test CH1: 2462MHz

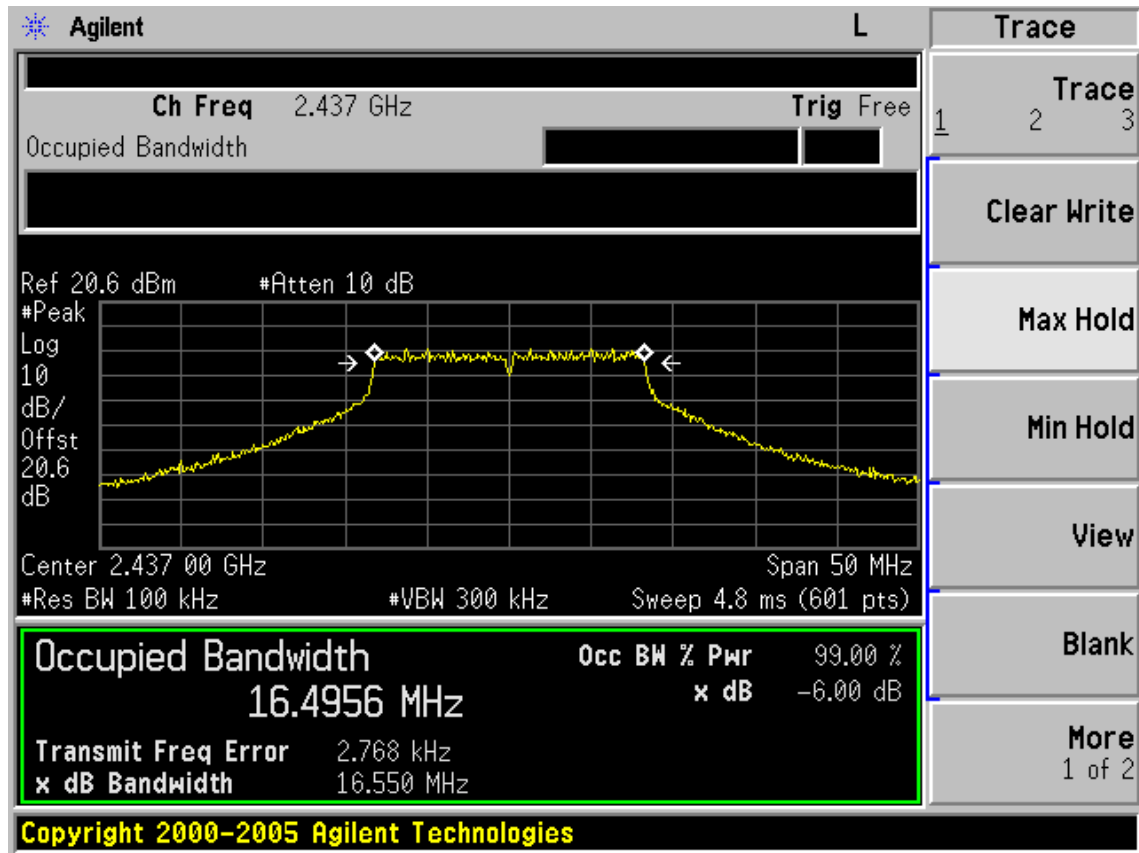


Test Mode: IEEE 802.11g TX

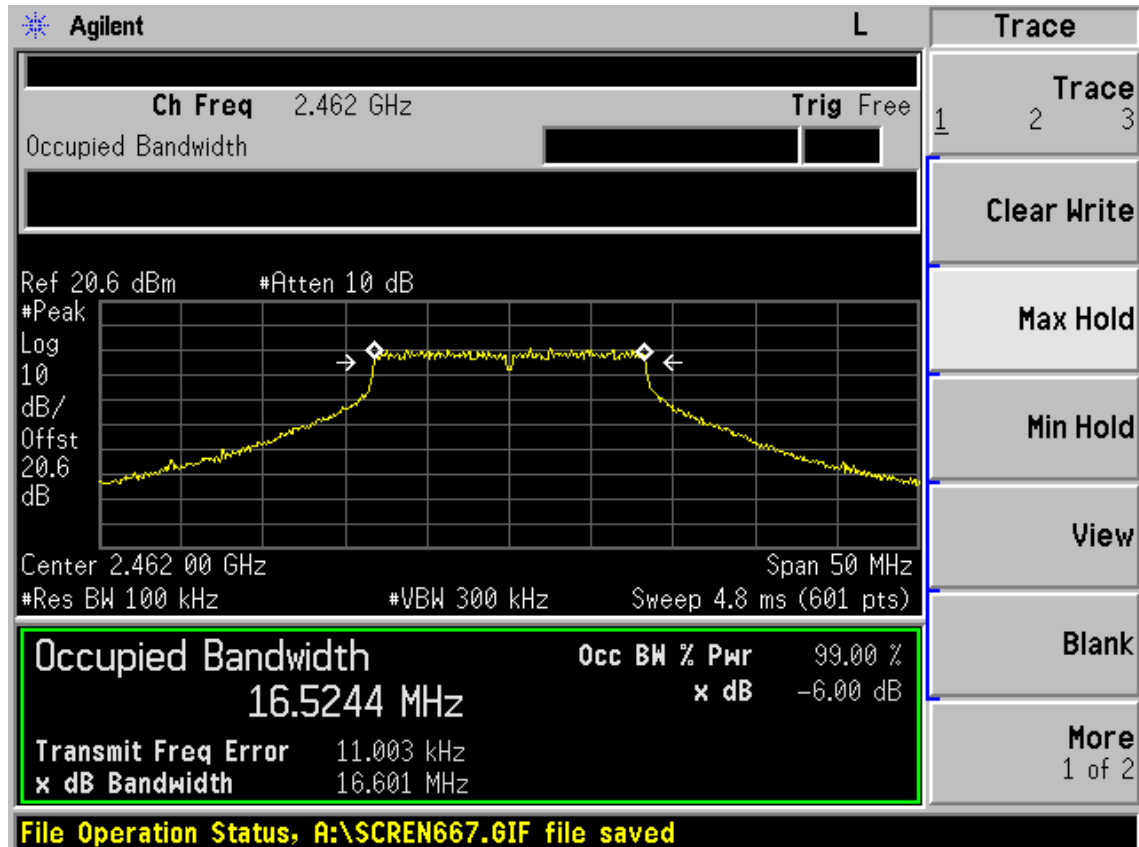
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Power meter	Anritsu	ML2487A	6K00002472	May.08,10	1 Year
2.	Power sensor	Anritsu	MA2491A	0033005	May.08,10	1 Year
3	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
4	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1 Year

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

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

8.3. Test Procedure

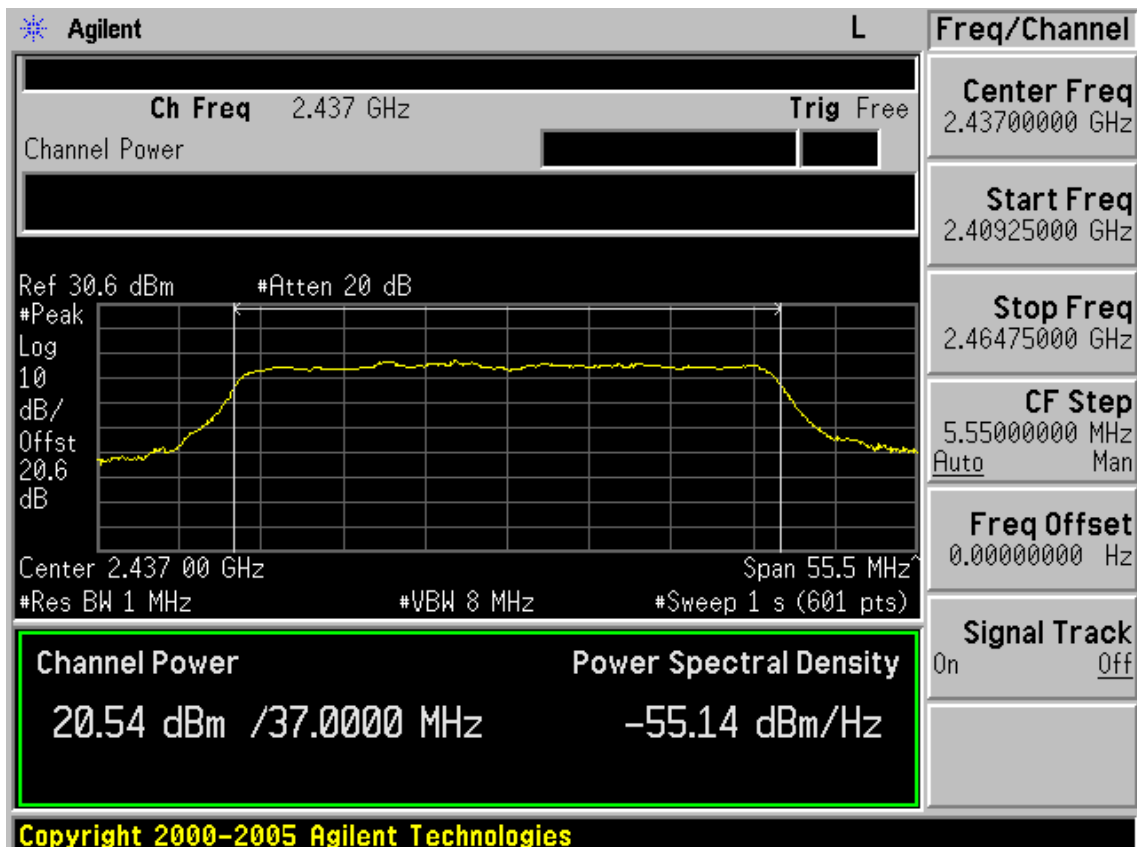
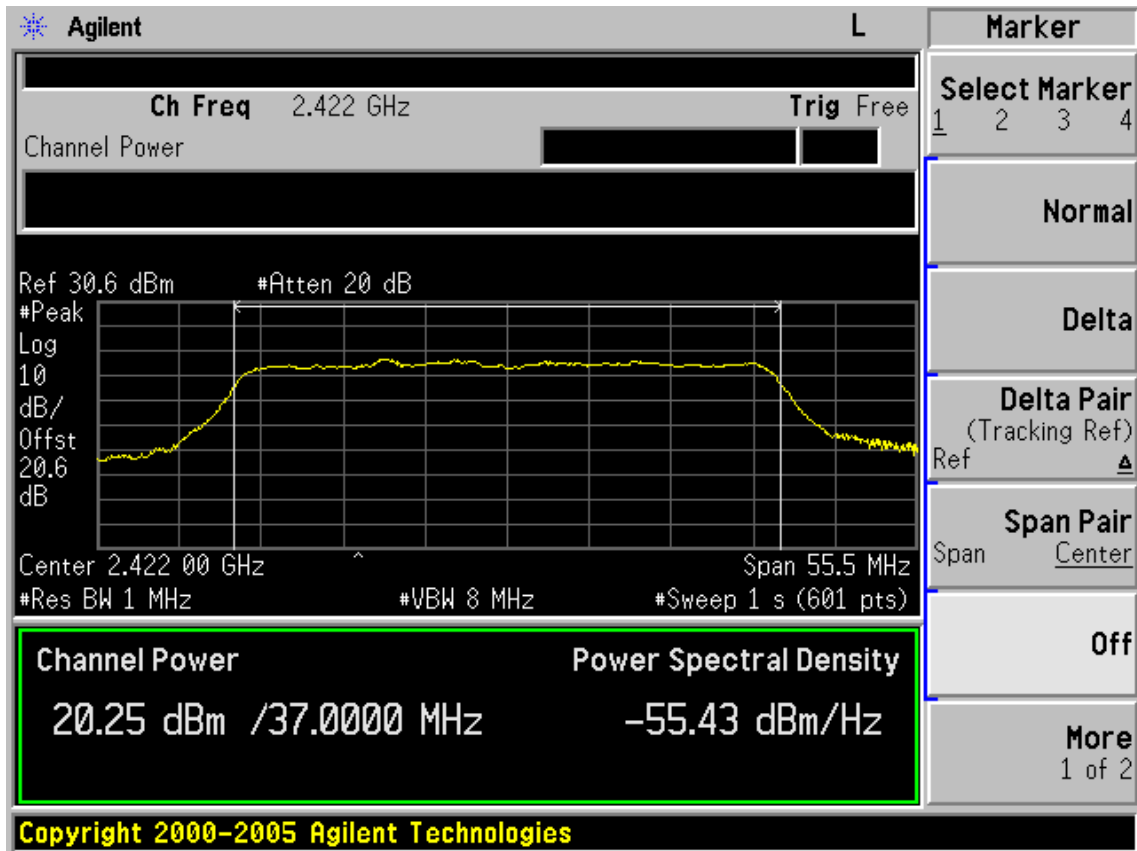
- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is 20MHz and above 6dB bandwidth of signal to measure out each test modes' PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So the channel power measure function of Spectrum Analyzer was used to measure out the PK output power of each test modes'

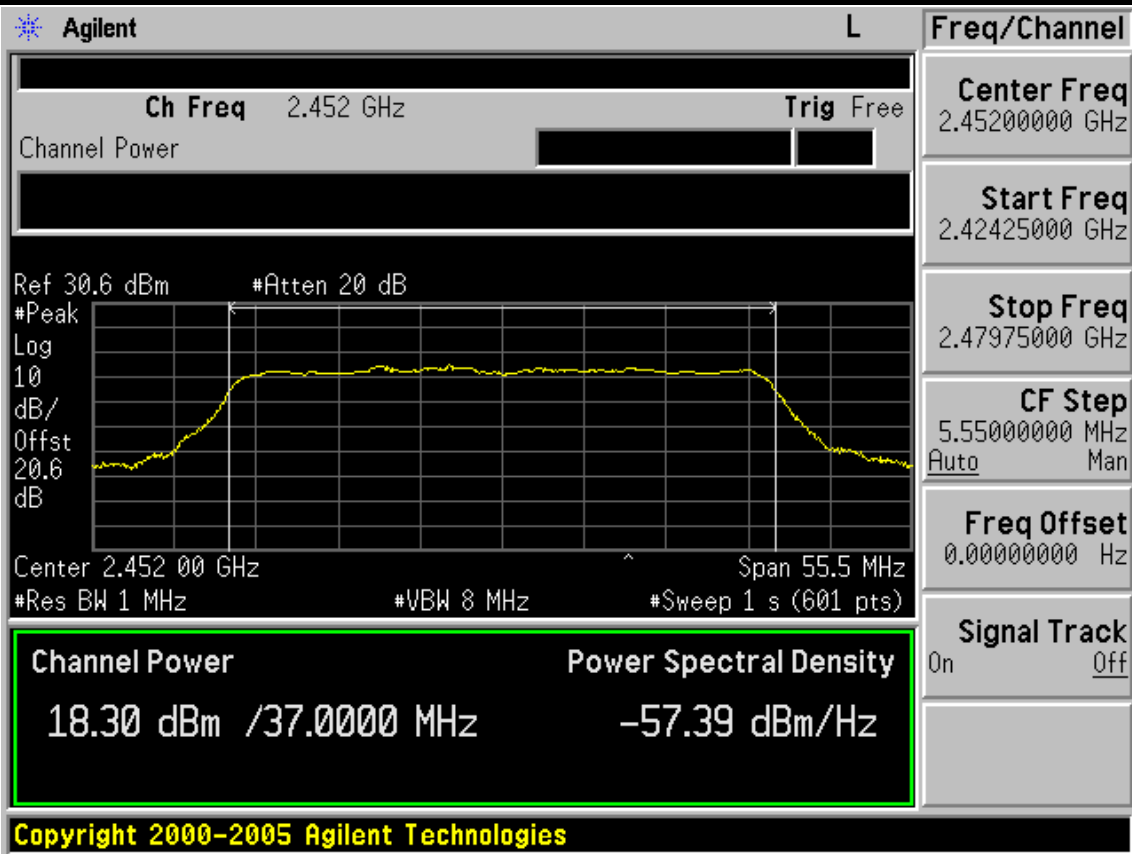
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

8.4.Test Results

EUT: 54Mbps Wireless ADSL2+Modem Router		
M/N: TD-W8101G		
Temperature : 25 °C	Humidity: 60 %	Pressure: 100.6 kpa
Tested by: Sunny-lu	Test site: RF site	Date: 2011-04-06

Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 3 dBi
Mode	CH	PK Output power (dBm)	Limit (dBm)
11b	CH1	21.19	30
	CH6	21.70	30
	CH11	21.92	30
11g	CH1	20.59	30
	CH6	21.50	30
	CH11	21.45	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, 10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08, 10	1 Year

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

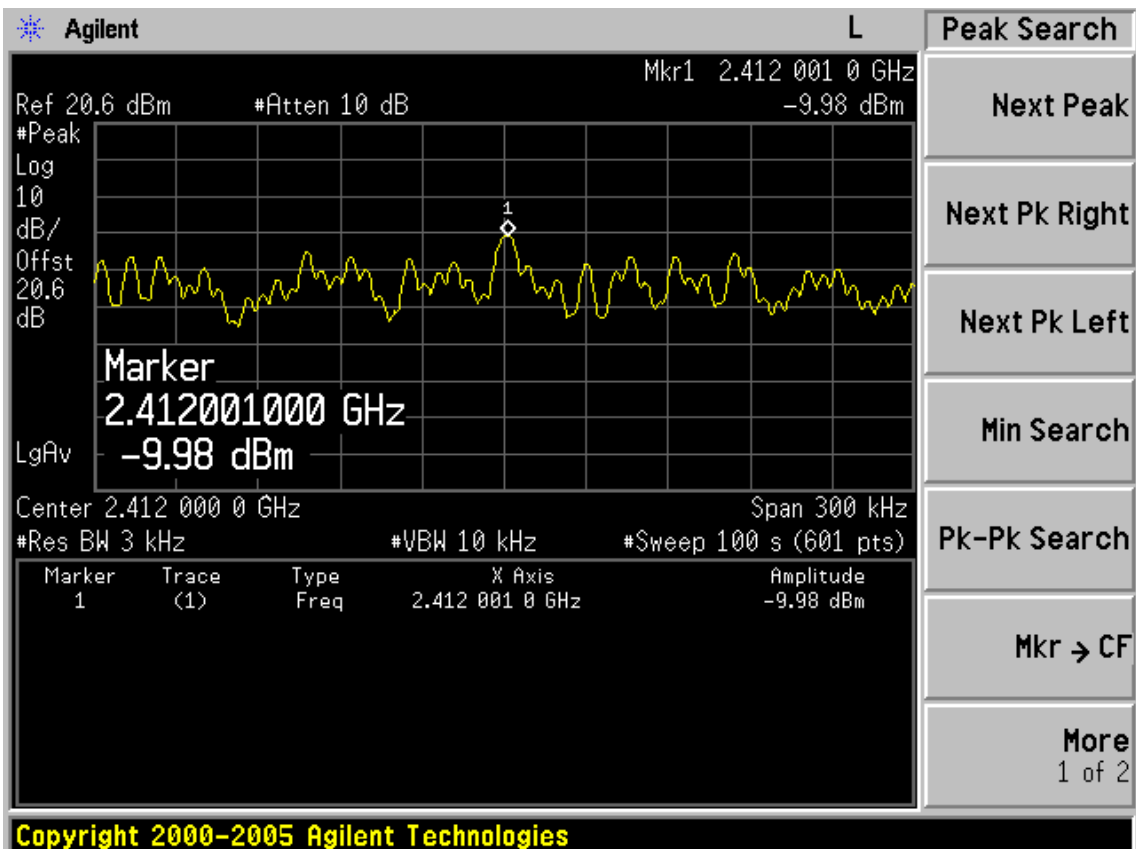
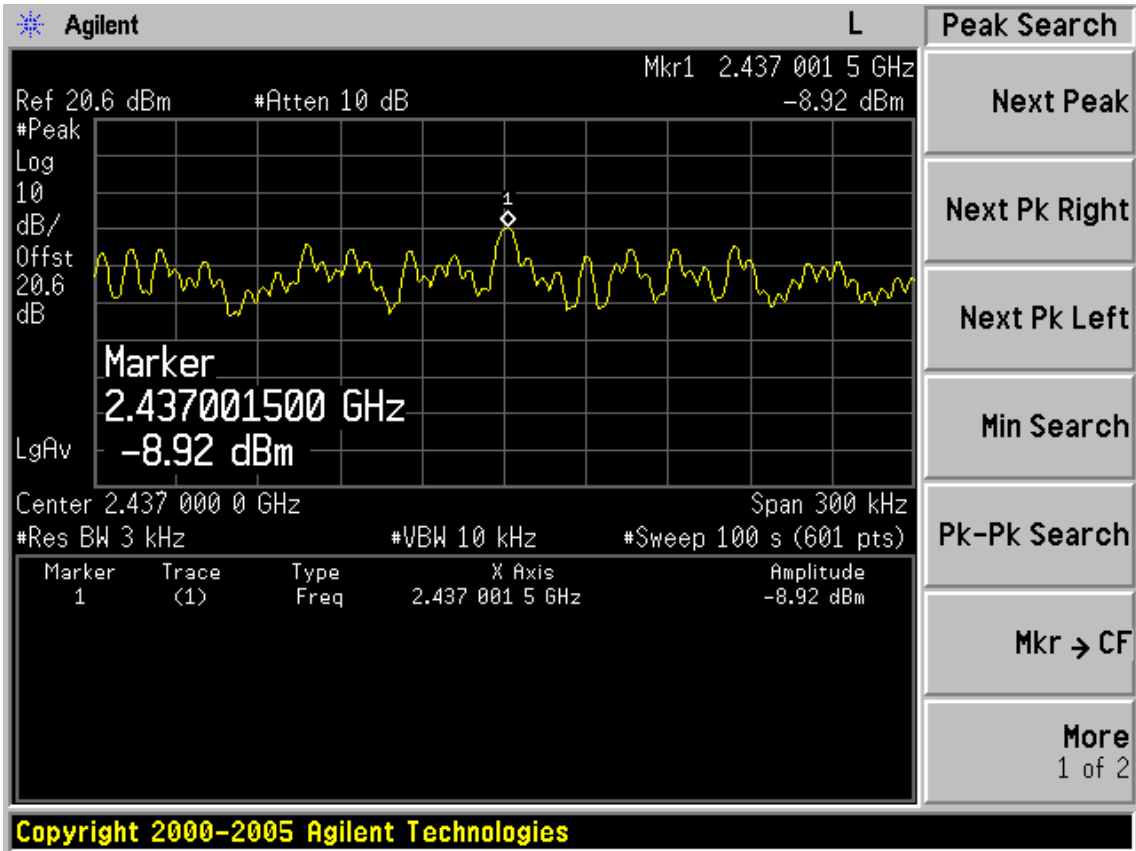
- 1, Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
- 2, Follow the test procedure as described in ANSI C.10: 2009 Clause 6.11.2.3 to measure out each test modes and chain's power density with 3KHz.

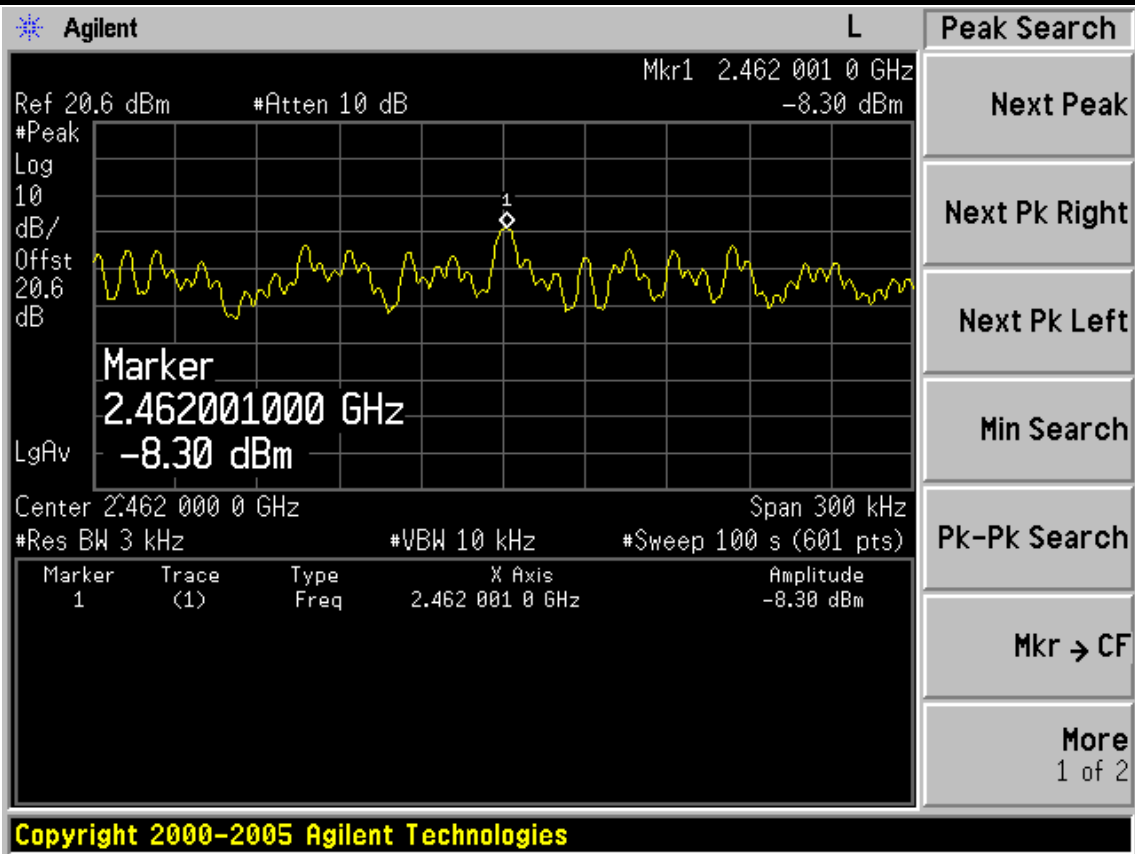
9.4. Test Results

EUT: 54Mbps Wireless ADSL2+Modem Router		
M/N: TD-W8101G		
Test date:2010-04-06	Pressure: 101.8 kpa	Humidity: 53 %
Tested by: Sunny-Lu	Test site: RE Site	Temperature : 23.5 °C

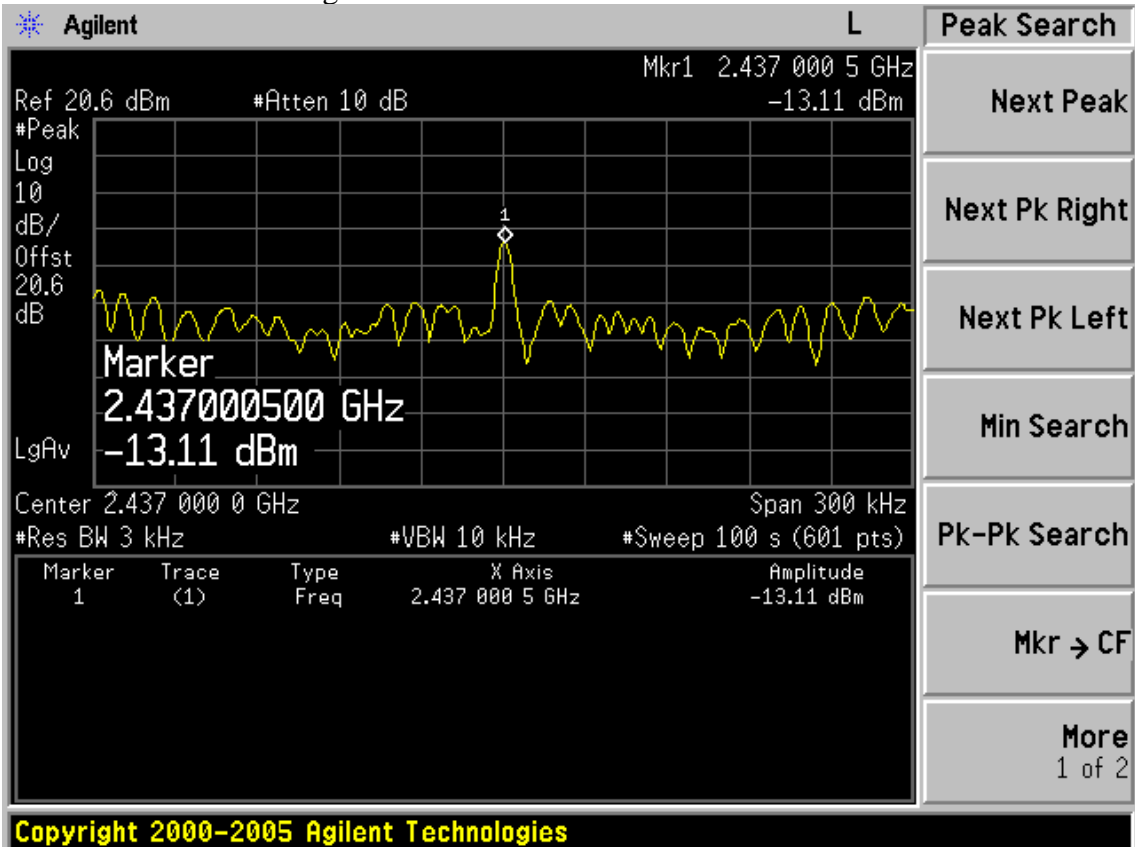
Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 3 dBi
Test Mode	CH	Power density (dBm/3KHz)	Limit (dBm/3KHz)
11b	CH1	-9.98	8
	CH6	-8.92	8
	CH11	-8.30	8
11g	CH1	-13.50	8
	CH6	-13.11	8
	CH11	-12.44	8
Conclusion : PASS			

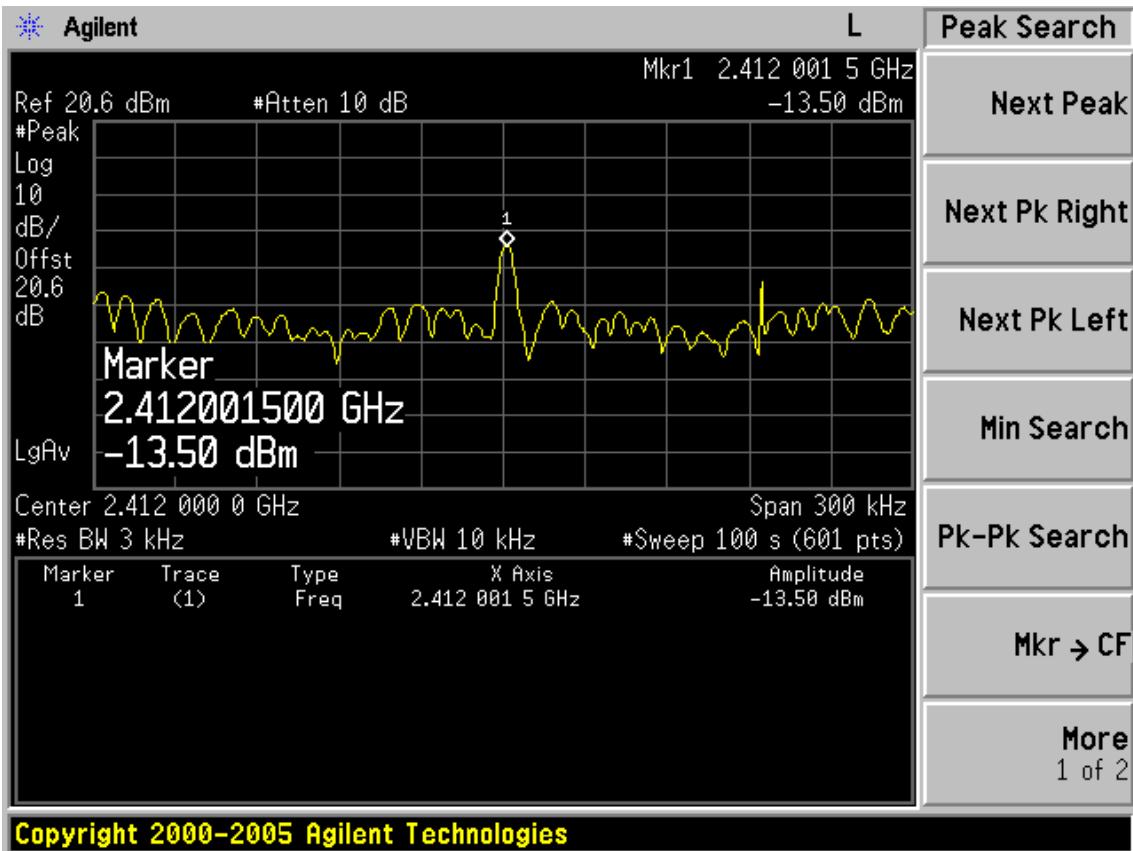
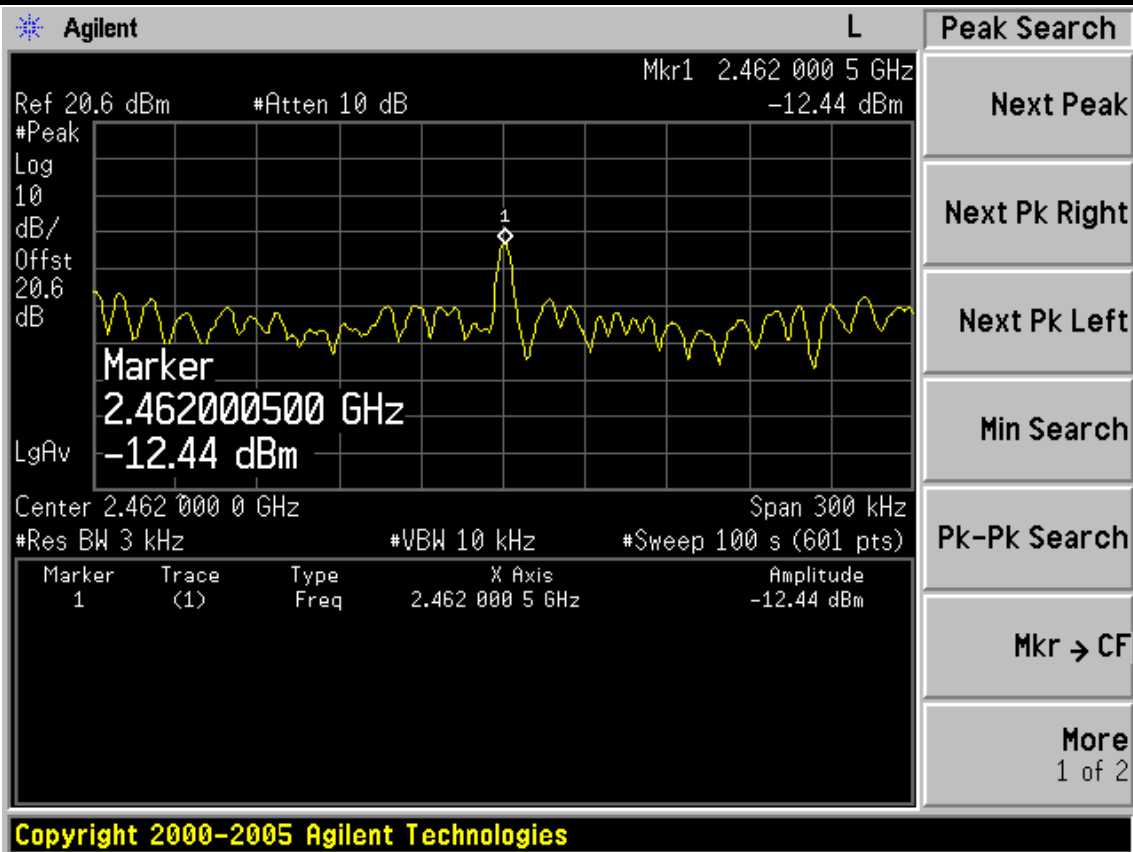
Test Mode: IEEE 802.11b TX





Test Mode: IEEE 802.11g TX





10. ANTENNA REQUIREMENT

10.1. STANDARD APPLICABLE

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

10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product is dipole antenna with SMA-B connector that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 3dBi.

11.MPE ESTIMATION

11.1.Limit for General Population/ Uncontrolled Exposures

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

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

Note: F= Frequency in MHz

11.2.Estimation Result

Mode	CH	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	Antenna Gain (dBi)	antenna Gain(linear)	MPE
11b	1	2412	21.19	131.52	3	2.00	0.0522
	6	2437	21.70	147.91	3	2.00	0.0587
	11	2462	21.92	155.60	3	2.00	0.0618
11g	1	2412	20.59	114.55	3	2.00	0.0455
	6	2437	21.50	141.25	3	2.00	0.0561
	11	2462	21.45	139.64	3	2.00	0.0555

Note: The estimation distance is 20cm

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]