



FCC ID: WWMRN501XV3

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Proware Technologies Co., Ltd.

300Mbps Wireless N Router

Model No.: PW-RN501D

FCC ID: WWMRN501XV3

Prepared for : Proware Technologies Co., Ltd.
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Report Number : ACS-F11012
Date of Test : Jan.06~08, 2011
Date of Report : Jan.21, 2011

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FCC ID: WWMRN501XV3

TEST REPORT CERTIFICATION

Applicant : Proware Technologies Co., Ltd.
Manufacturer : Proware Technologies Co., Ltd.
EUT Description : 300Mbps Wireless N Router
FCC ID : WWMRN501XV3
(A) MODEL NO. : PW-RN501D
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : DC 9V From Adapter Input AC 230V/50Hz
(D) TEST VOLTAGE : 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 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 : Jan.06~08, 2011 Report of date: Jan.21, 2011

Prepared by : Vicky Huang Reviewer by : Jamy Yu
Vicky Huang / Assistant Jamy Yu / Supervisor



Approved & Authorized Signer : Ken Lu
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: 15.207 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	:	300Mbps Wireless N Router
Model Number	:	PW-RN501D
FCC ID	:	WWMRN501XV3
Operation Frequency	:	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE802.11n HT20: 2412MHz—2462MHz IEEE802.11n HT40: 2422MHz—2452MHz
Channel Number	:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7Channels
Modulation Technology	:	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
Antenna Assembly Gain	:	Dipole Antenna, MIMO 2x2, 5dBi Peak gain
Applicant	:	Proware Technologies Co., Ltd. 2nd F1 East Wing, South Section, Factory Building 24, Science & Technology Park, Shennan Rd, Nanshan District, Shenzhen
Manufacturer	:	Proware Technologies Co., Ltd. 2nd F1 East Wing, South Section, Factory Building 24, Science & Technology Park, Shennan Rd, Nanshan District, Shenzhen
Power Adapter	:	Manufacturer: LEADER ELECTRONICS INC., M/N: MU05-N090060-A1 DC Cable: Unshielded, Detachable, 1.7m(with one core)
Date of Test	:	Jan.06~08, 2011
Date of Receipt	:	Jan.06, 2011
Sample Type	:	Prototype production

2.2. Test Information

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

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	11	Low :CH1	2412
	11	Middle: CH6	2437
	11	High: CH11	2462
IEEE 802.11g	54	Low :CH1	2412
	54	Middle: CH6	2437
	54	High: CH11	2462
IEEE 802.11n HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11n HT40	13.5	Low :CH1	2422
	13.5	Middle: CH4	2437
	13.5	High: CH7	2452

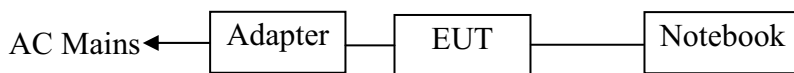
Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

Note2: This device use MIMO 2X2 antennas ,all the radiated spurious emissions and band edge test were performed with two antennas transmit synchronous.

2.3. Tested Supporting System Details

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

2.4. Block diagram of connection between the EUT and simulators



Notebook run test software to control EUT work in Continuous TX mode

(EUT: 300Mbps Wireless N Router)

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

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Apr. 01, 2010

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

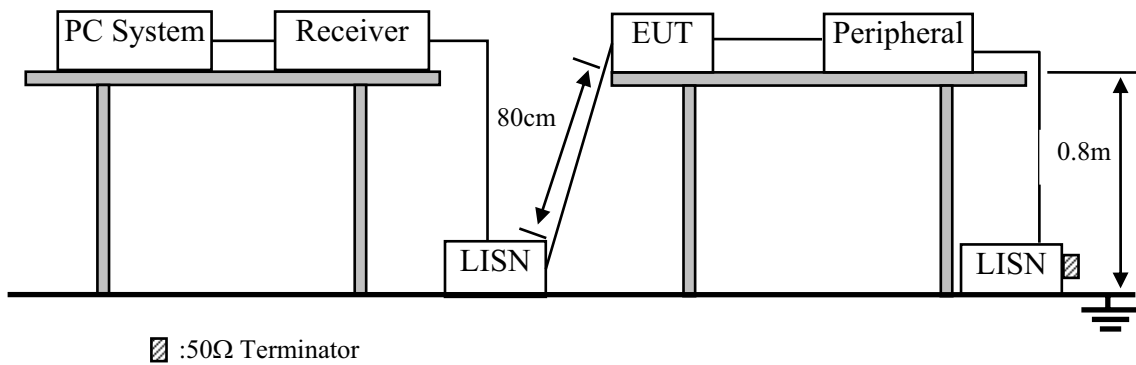
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.64 dB (9kHz to 150kHz)
	3.22 dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	4.20 dB (Polarize: V)
	4.66 dB (Polarize: H)
Uncertainty for Radiated Spurious Emission test in RF chamber	2.70 dB(Bilog 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	1x10 ⁻⁹
Uncertainty for Bandwidth test	1x10 ⁻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	Mar.30, 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	1Year
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. 300Mbps Wireless N Router (EUT)

Model Number : PW-RN501D
Serial Number : N/A

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

3.5. Operating Condition of EUT

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

3.5.2. Turned on the power of all equipment.

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

3.6. Test Procedure

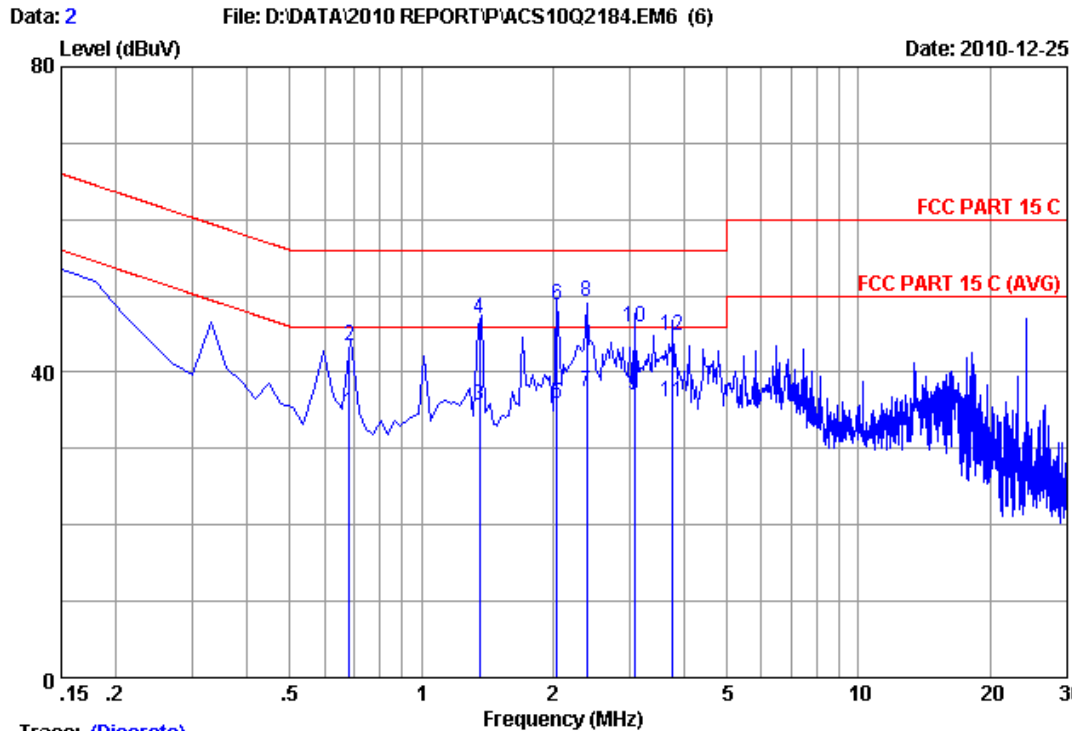
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The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

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

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

3.7. Power Line Conducted Emission Test Results

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

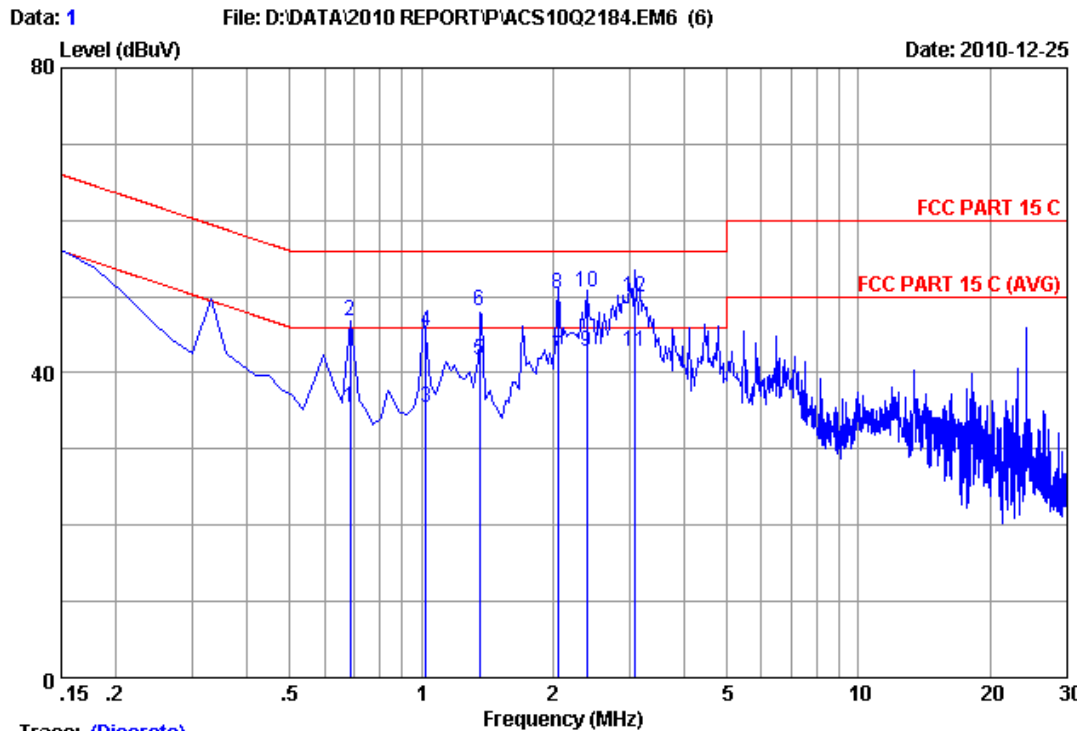


Trace: (Discrete)

Site no :1#conduction Data No :2
 Dis./Ant. :** 2010 ESH2-25 LINE
 Limit :FCC PART 15 C
 Env./Ins. :29.5°C/55% Engineer :Sunny-lu
 EUT :300Mbps Wireless N Router
 Power Rating :DC 9V From Adapter Input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N :PW-RN501D

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.68500	0.25	9.89	24.59	34.73	46.00	11.27	Average
2	0.68500	0.25	9.89	33.25	43.39	56.00	12.61	QP
3	1.360	0.23	9.89	25.51	35.63	46.00	10.37	Average
4	1.360	0.23	9.89	36.91	47.03	56.00	8.97	QP
5	2.040	0.25	9.91	25.80	35.96	46.00	10.04	Average
6	2.040	0.25	9.91	38.60	48.76	56.00	7.24	QP
7	2.389	0.25	9.92	27.30	37.47	46.00	8.53	Average
8	2.389	0.25	9.92	39.02	49.19	56.00	6.81	QP
9	3.075	0.26	9.93	26.90	37.09	46.00	8.91	Average
10	3.075	0.26	9.93	35.70	45.89	56.00	10.11	QP
11	3.762	0.27	9.94	25.85	36.06	46.00	9.94	Average
12	3.762	0.27	9.94	34.58	44.79	56.00	11.21	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 : 1
 Dis./Ant. : ** 2010 ESH2-25 NEUTRAL
 Limit : FCC PART 15 C
 Env./Ins. : 29.5°C/55% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power Rating : DC 9V From Adapter Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N : PW-RN501D

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.68730	0.24	9.89	25.24	35.37	46.00	10.63	Average
2	0.68730	0.24	9.89	36.58	46.71	56.00	9.29	QP
3	1.026	0.25	9.89	25.19	35.33	46.00	10.67	Average
4	1.026	0.25	9.89	35.42	45.56	56.00	10.44	QP
5	1.360	0.25	9.89	31.61	41.75	46.00	4.25	Average
6	1.360	0.25	9.89	38.01	48.15	56.00	7.85	QP
7	2.049	0.26	9.91	31.90	42.07	46.00	3.93	Average
8	2.049	0.26	9.91	40.10	50.27	56.00	5.73	QP
9	2.389	0.26	9.92	32.57	42.75	46.00	3.25	Average
10	2.389	0.26	9.92	40.50	50.68	56.00	5.32	QP
11	3.075	0.27	9.93	32.60	42.80	46.00	3.20	Average
12	3.075	0.27	9.93	39.70	49.90	56.00	6.10	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

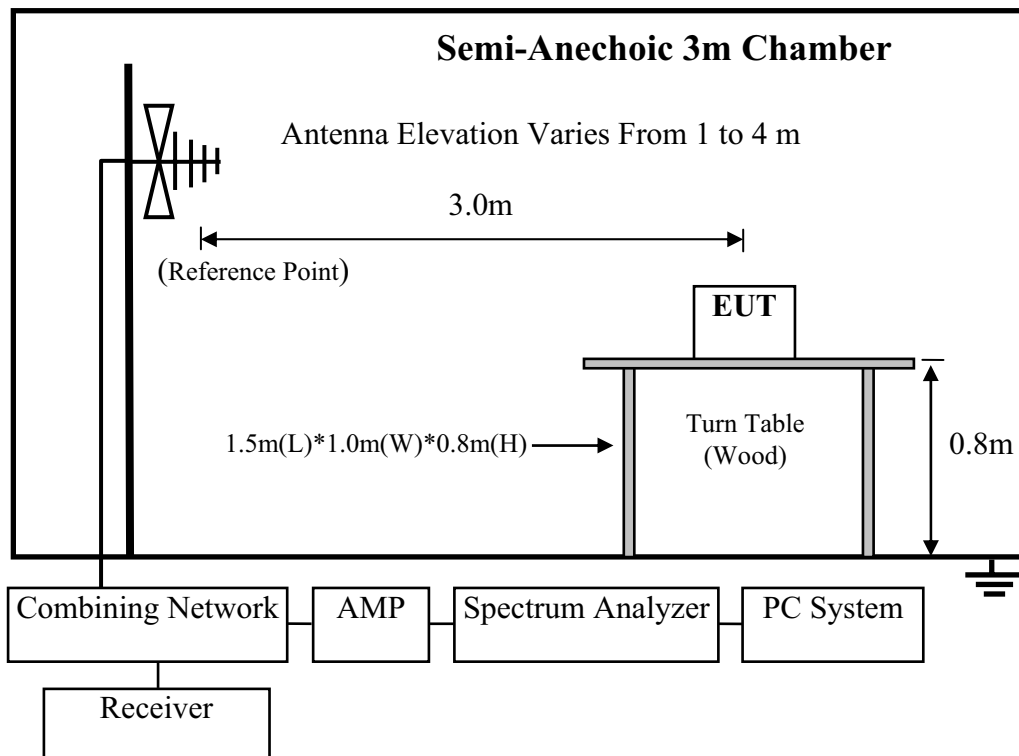
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.06,10	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 10	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 10	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 10	1 Year
5	Bilog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

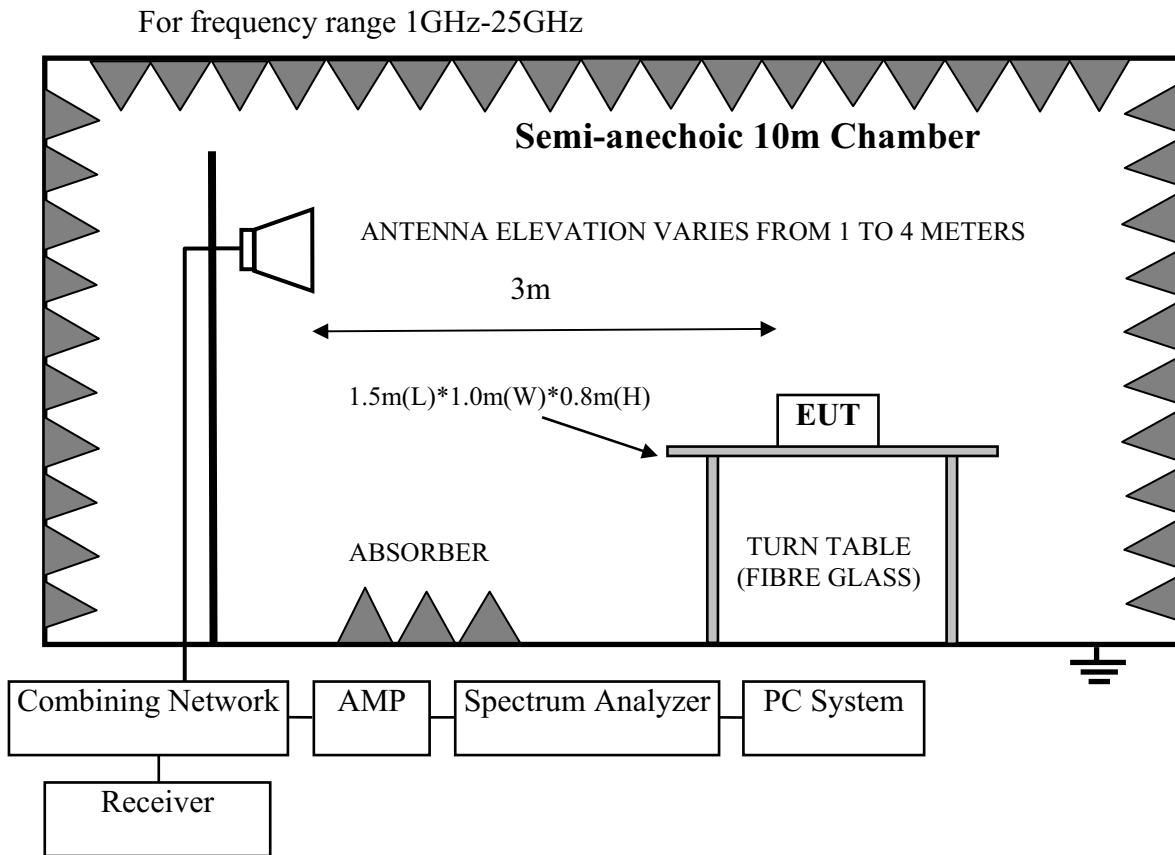
Frequency rang: above 1000MHz

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.

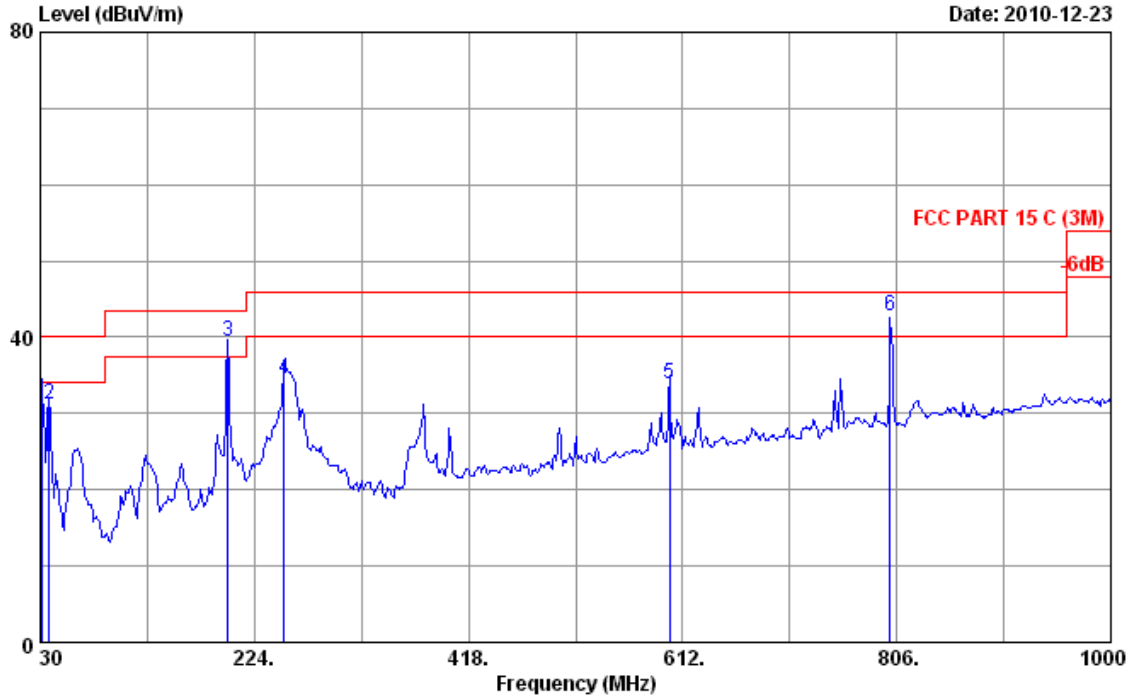
Note: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

Frequency: 30MHz~1GHz

Data: 1

File: E:\2010 Report Data\ACS10Q2184.EM6 (4)

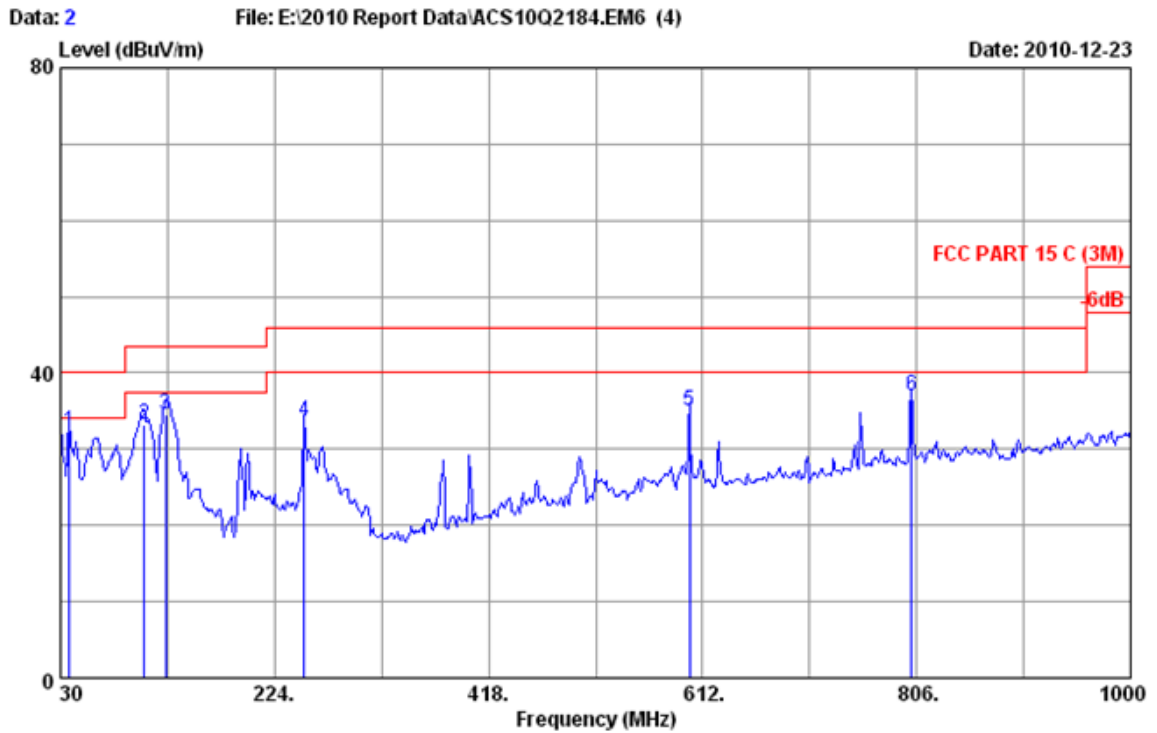
Date: 2010-12-23



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2011 CBL6111C Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router M/N:PW-RN501D
 Power rating : DC 9V From Adapter Input AC 120V/60Hz
 Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	31.940	17.65	0.63	13.57	31.85	40.00	8.15	QP
2	37.760	14.37	0.67	16.12	31.16	40.00	8.84	QP
3	200.000	9.37	1.72	28.40	39.49	43.50	4.01	QP
4	251.160	12.78	2.18	19.66	34.62	46.00	11.38	QP
5	600.360	20.20	4.12	9.59	33.91	46.00	12.09	QP
6	800.000	22.75	4.90	15.10	42.75	46.00	3.25	QP

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

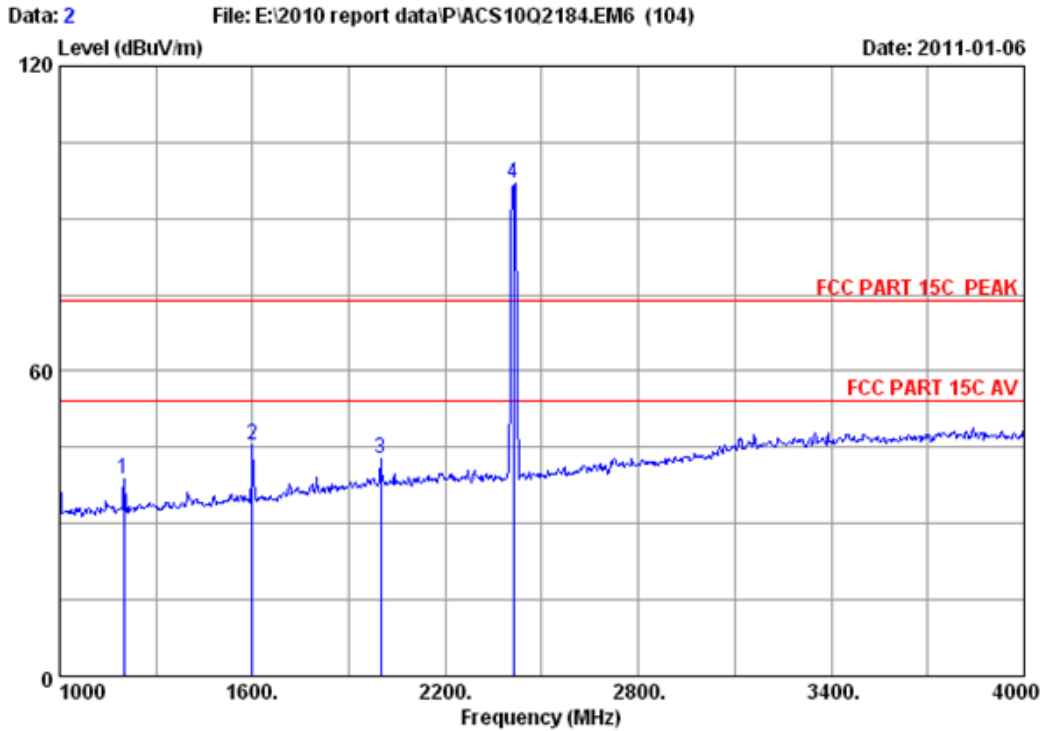


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2011 CBL6111C Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router M/N:PW-RN501D
 Power rating : DC 9V From Adapter Input AC 120V/60Hz
 Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	37.760	14.37	0.67	17.22	32.26	40.00	7.74	QP
2	105.660	10.14	1.12	22.03	33.29	43.50	10.21	QP
3	125.060	11.23	1.13	22.07	34.43	43.50	9.07	QP
4	251.160	12.78	2.18	18.65	33.61	46.00	12.39	QP
5	600.360	20.20	4.12	10.70	35.02	46.00	10.98	QP
6	800.000	22.74	4.90	9.27	36.91	46.00	9.09	QP

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

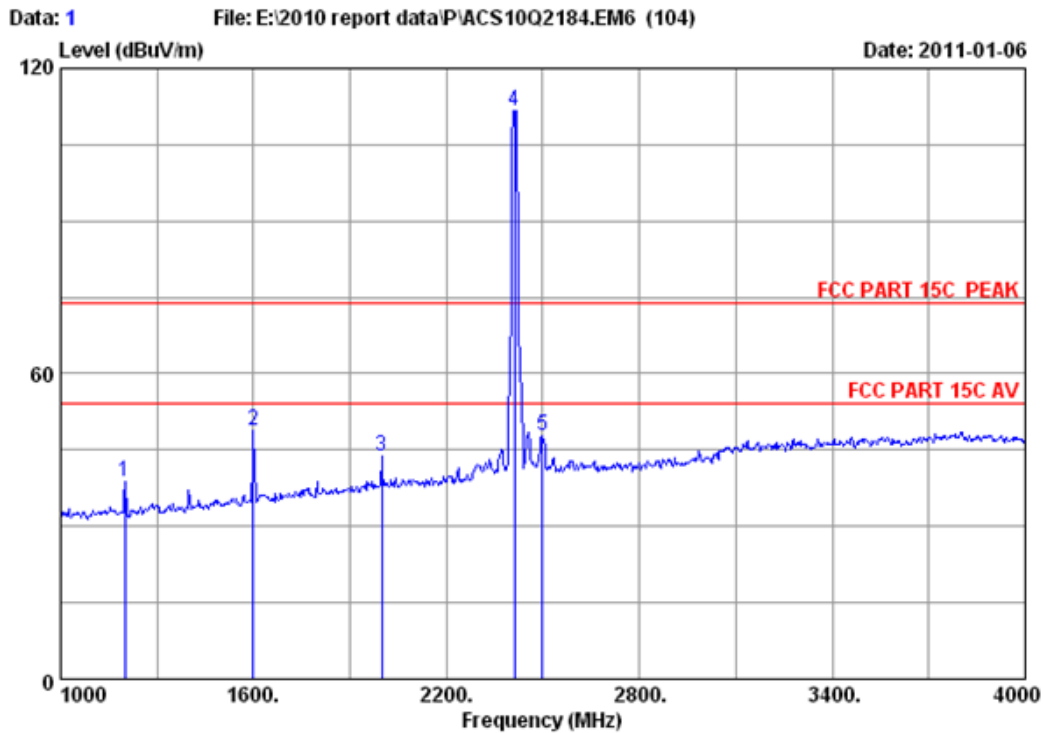
Frequency: 1GHz~18GHz



Site no. : 10m 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 : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : PW-RN501D

	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	1201.000	25.81	5.16	37.54	45.30	38.73	74.00	35.27	Peak
2	1600.000	26.96	5.91	36.94	49.51	45.44	74.00	28.56	Peak
3	1999.000	29.20	6.63	36.70	43.78	42.91	74.00	31.09	Peak
4	2412.000	29.45	7.43	36.62	96.62	96.88	74.00	-22.88	Peak

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

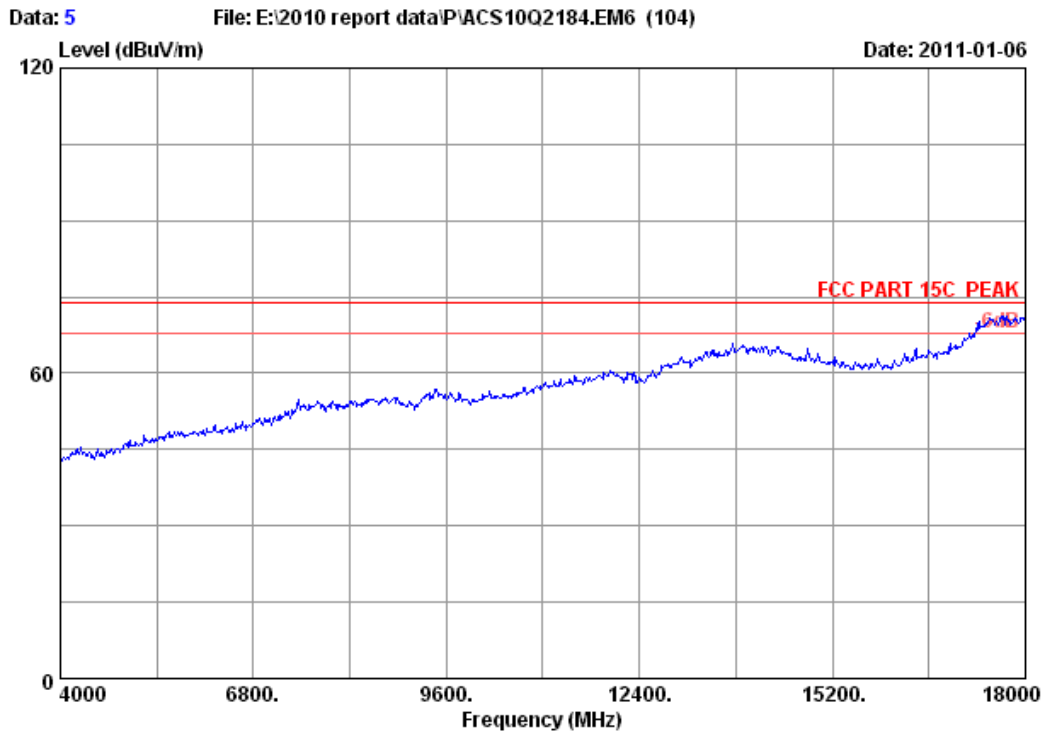


Site no. : 10m Chamber Data no. : 1
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : PW-RN501D

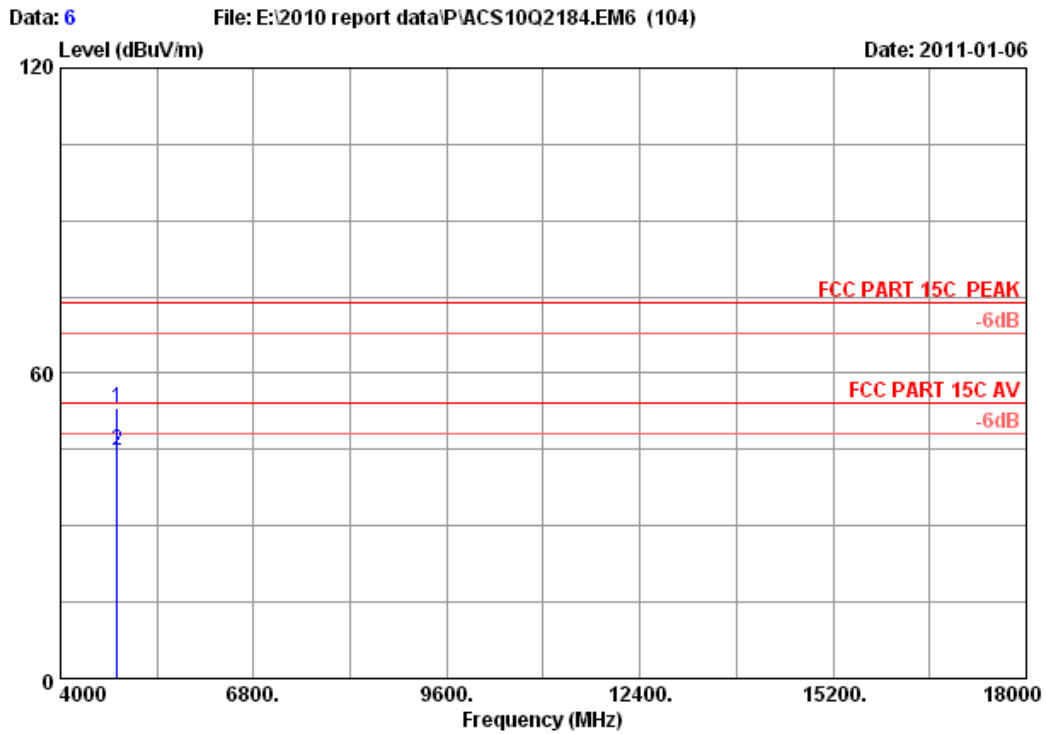
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1201.000	25.81	5.16	37.54	45.23	38.66	74.00	35.34	Peak
2	1600.000	26.96	5.91	36.94	53.00	48.93	74.00	25.07	Peak
3	1999.000	29.20	6.63	36.70	44.52	43.65	74.00	30.35	Peak
4	2412.000	29.45	7.43	36.62	111.54	111.80	74.00	-37.80	Peak
5	2500.000	29.50	7.62	36.60	47.32	47.84	74.00	26.16	Peak

Remarks:

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



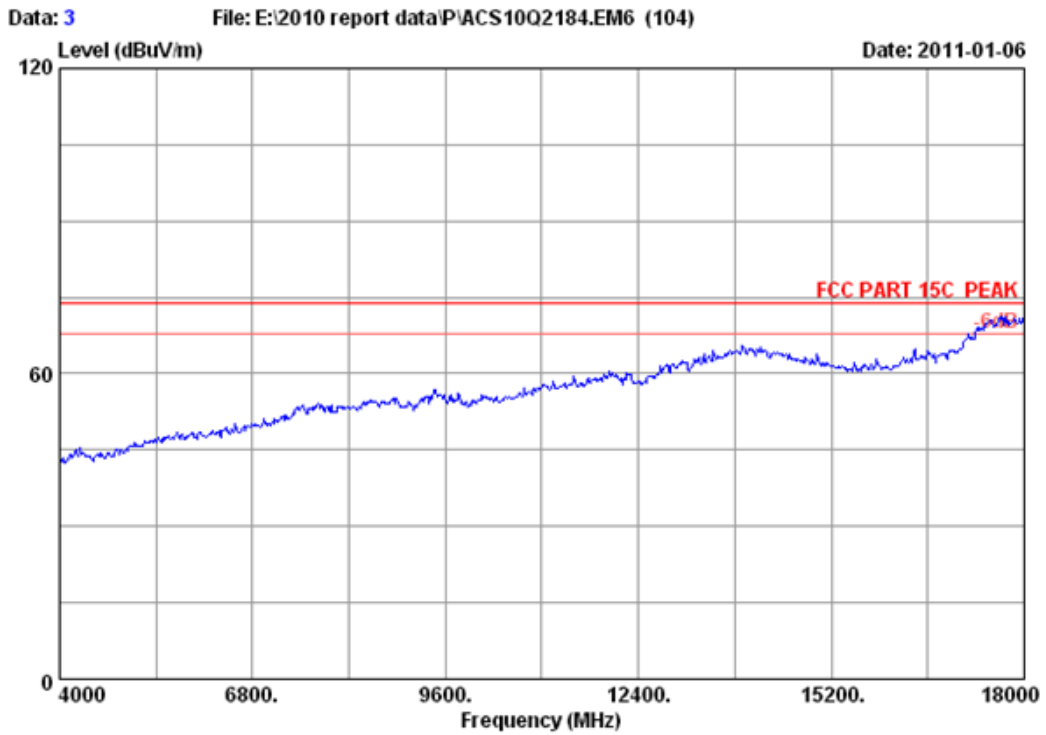
Site no. : 10m Chamber Data no. : 5
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : PW-RN501D



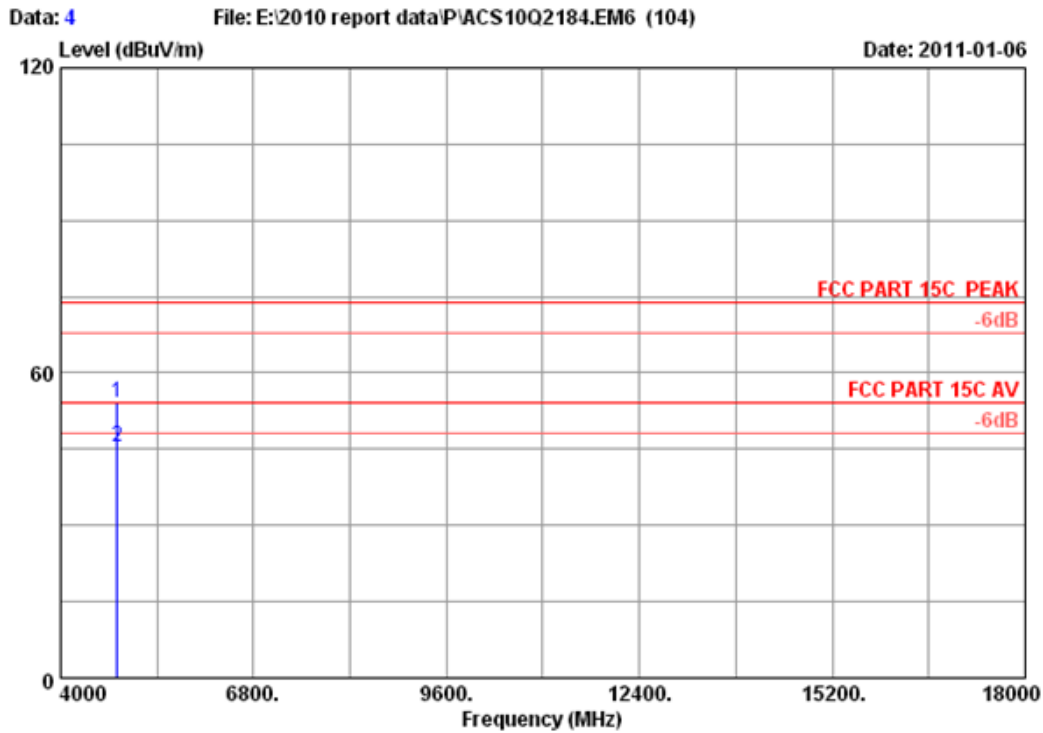
Site no. : 10m Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : PW-RN501D

	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	43.20	53.08	74.00	20.92	Peak
2	4824.000	34.32	10.64	35.08	34.99	44.87	54.00	9.13	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.	: 10m 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	: 300Mbps Wireless N Router		
Power	: DC 9V From Adapter Input AC 120V/60Hz		
Test mode	: IEEE802.11b CH1 2412MHz Tx		
M/N	: PW-RN501D		

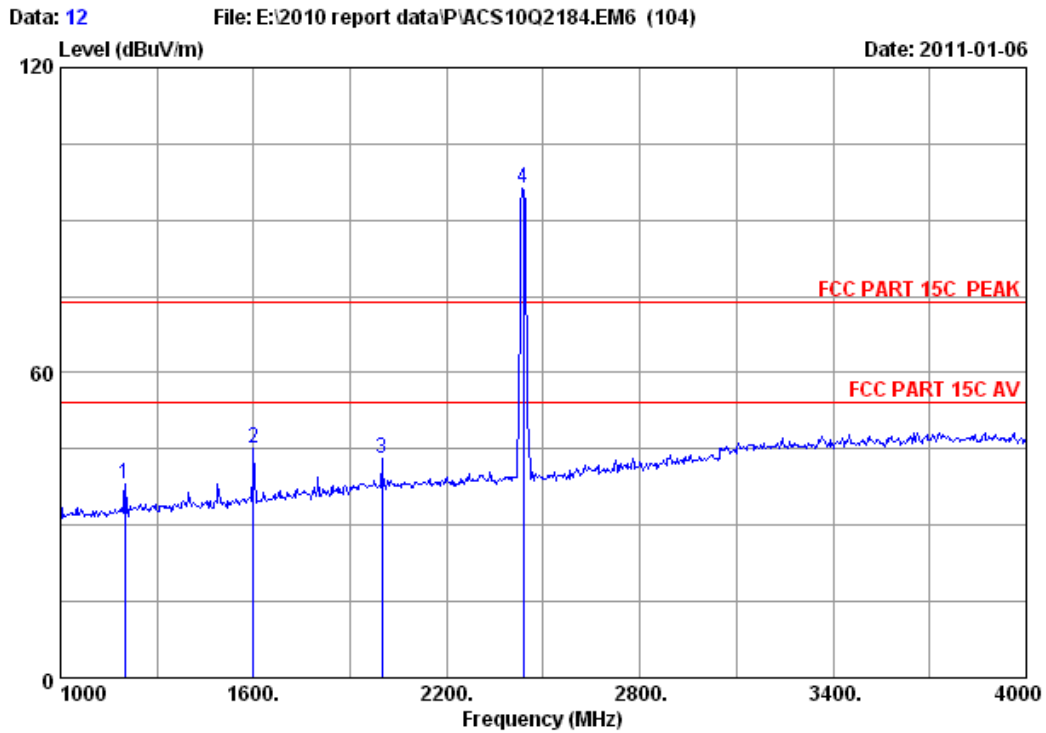


Site no. : 10m Chamber Data no. : 4
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : PW-RN501D

	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	44.21	54.09	74.00	19.91	Peak
2	4824.000	34.32	10.64	35.08	35.69	45.57	54.00	8.43	Average

Remarks:

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

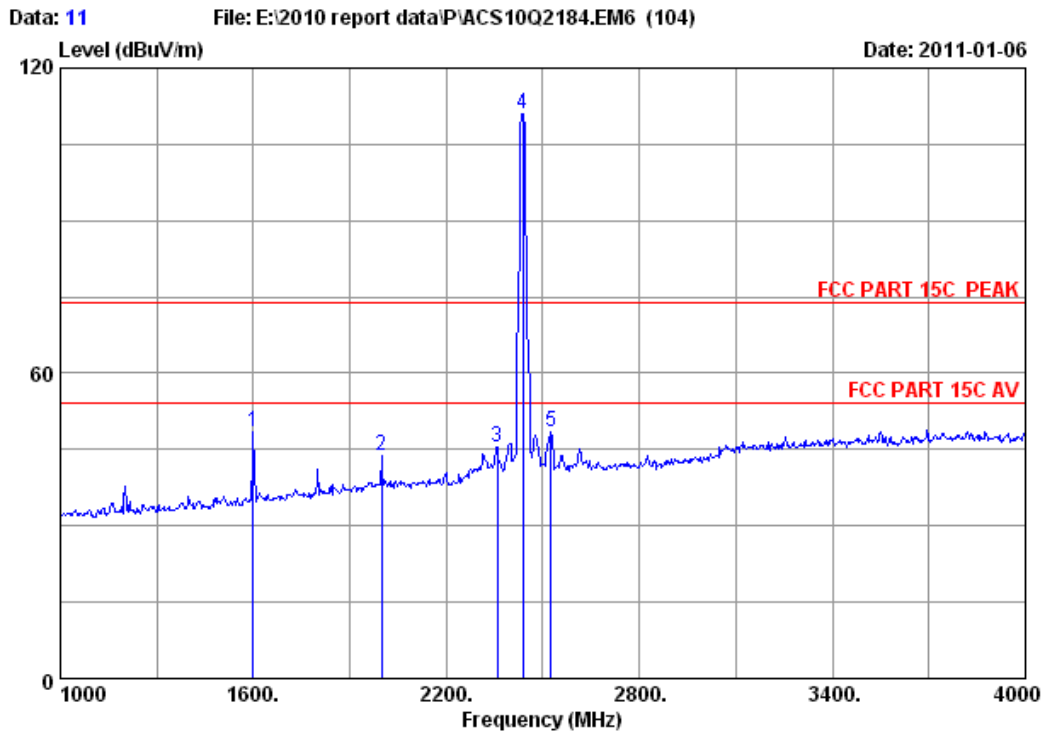


Site no. : 10m Chamber Data no. : 12
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : PW-RN501D

	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	1201.000	25.81	5.16	37.54	44.70	38.13	74.00	35.87	Peak
2	1600.000	26.96	5.91	36.94	49.33	45.26	74.00	28.74	Peak
3	1999.000	29.20	6.63	36.70	43.84	42.97	74.00	31.03	Peak
4	2437.000	29.47	7.46	36.61	95.95	96.27	74.00	-22.27	Peak

Remarks:

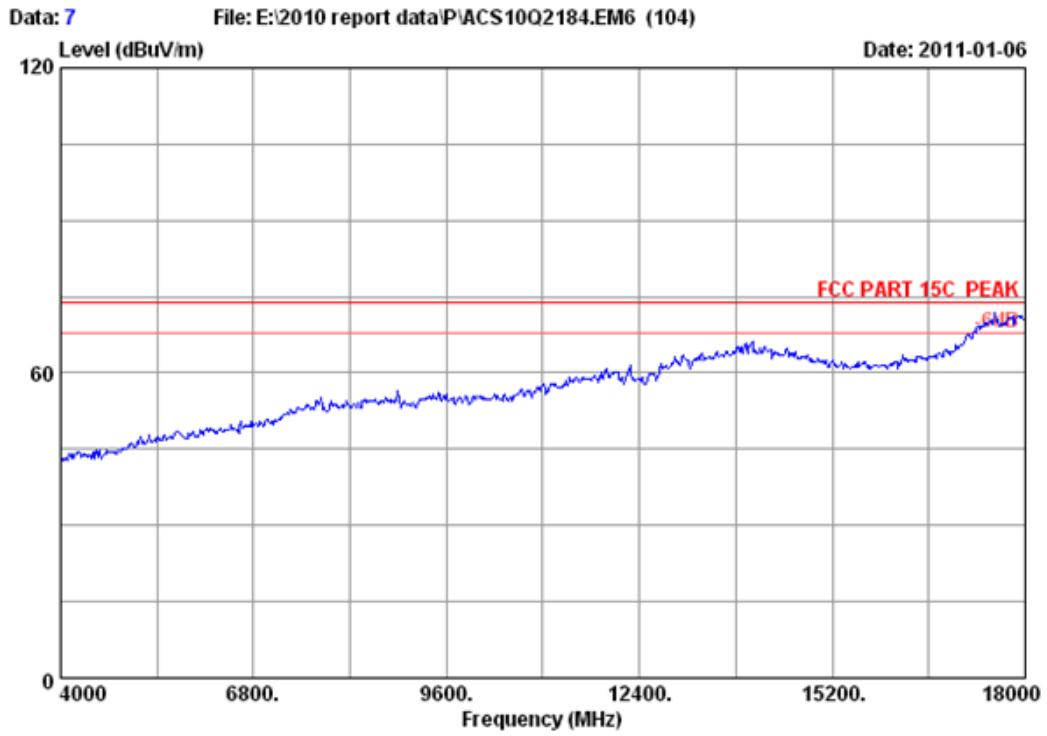
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



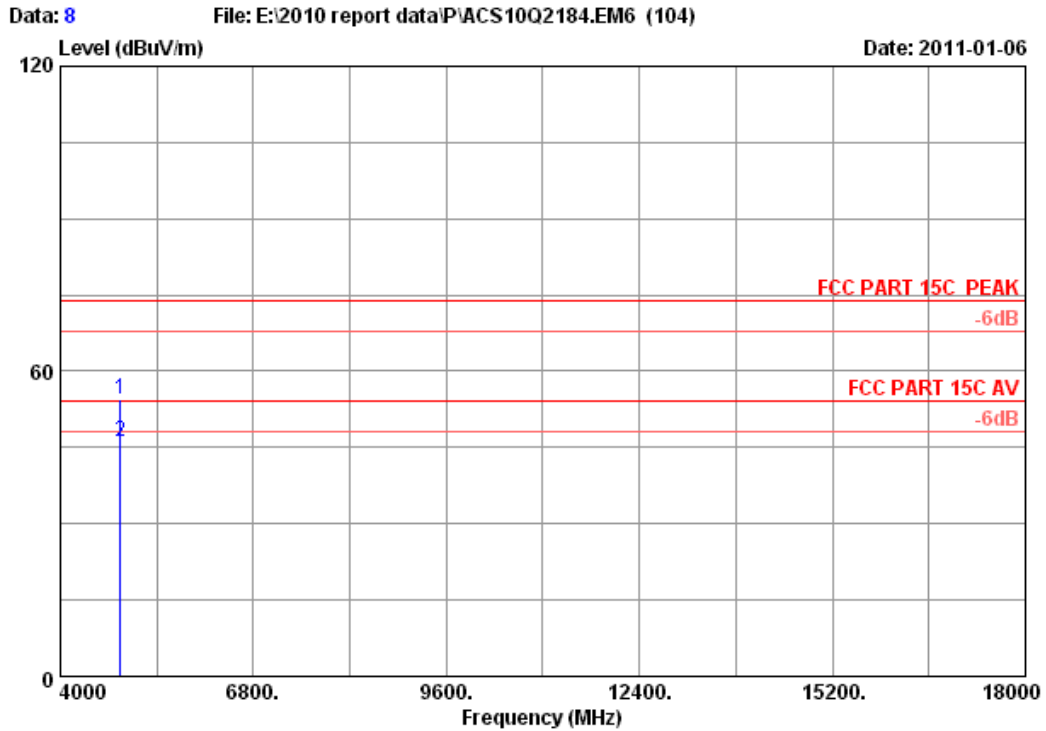
Site no. : 10m Chamber Data no. : 11
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : PW-RN501D

	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	1600.000	26.96	5.91	36.94	52.50	48.43	74.00	25.57	Peak
2	1999.000	29.20	6.63	36.70	44.62	43.75	74.00	30.25	Peak
3	2359.000	29.42	7.35	36.63	45.18	45.32	74.00	28.68	Peak
4	2437.000	29.47	7.46	36.61	110.78	111.10	74.00	-37.10	Peak
5	2524.000	29.67	7.65	36.59	47.67	48.40	74.00	25.60	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.



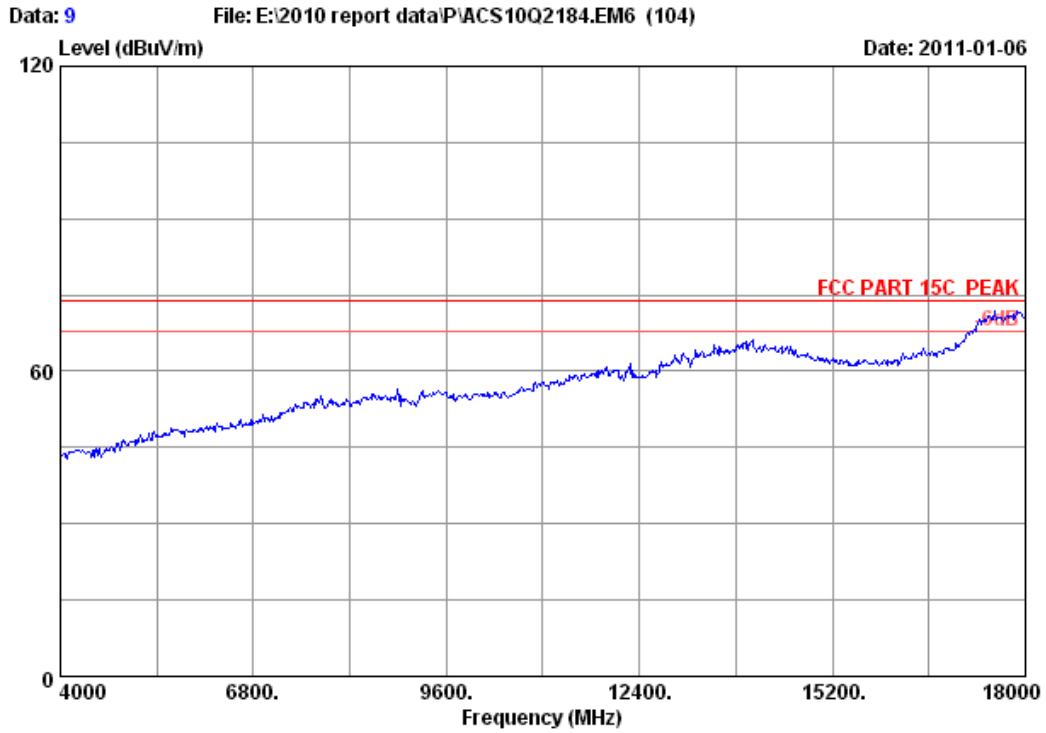
Site no.	: 10m Chamber	Data no. :	7
Dis. / Ant.	: 3m 3115(0911)	Ant. pol. :	HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer :	Sunny-lu
EUT	: 300Mbps Wireless N Router		
Power	: DC 9V From Adapter Input AC 120V/60Hz		
Test mode	: IEEE802.11b CH6 2437MHz Tx		
M/N	: PW-RN501D		



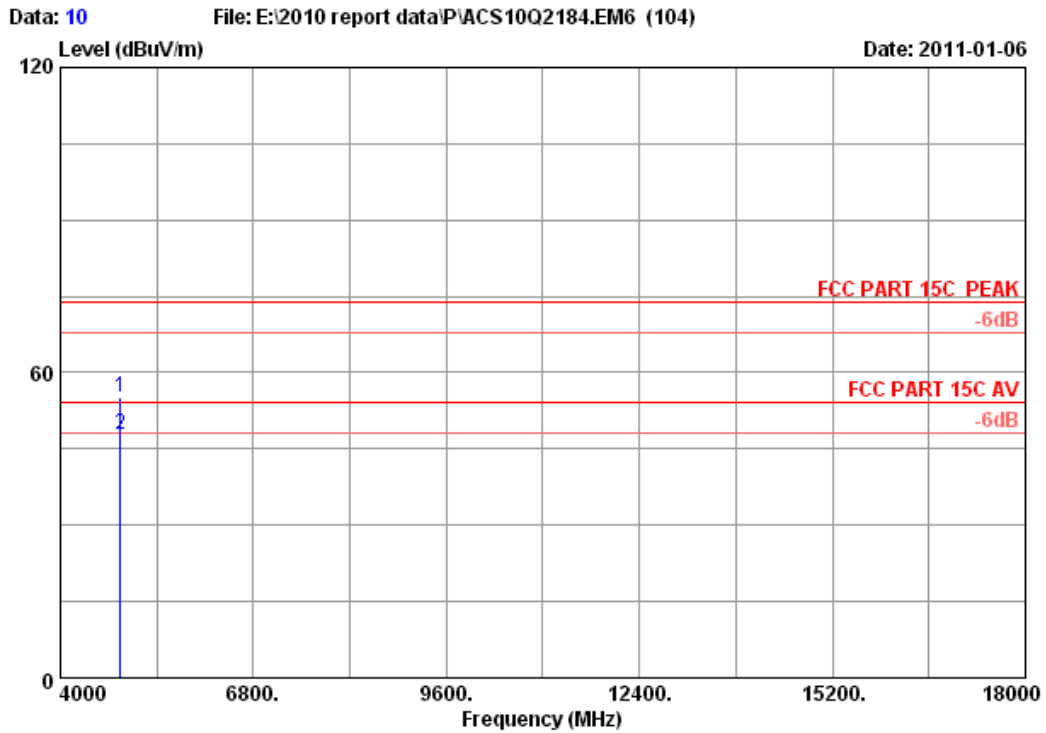
Site no. : 10m Chamber Data no. : 8
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : PW-RN501D

	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	44.27	54.34	74.00	19.66	Peak
2	4874.000	34.41	10.69	35.03	36.10	46.17	54.00	7.83	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. : 10m 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 : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : PW-RN501D

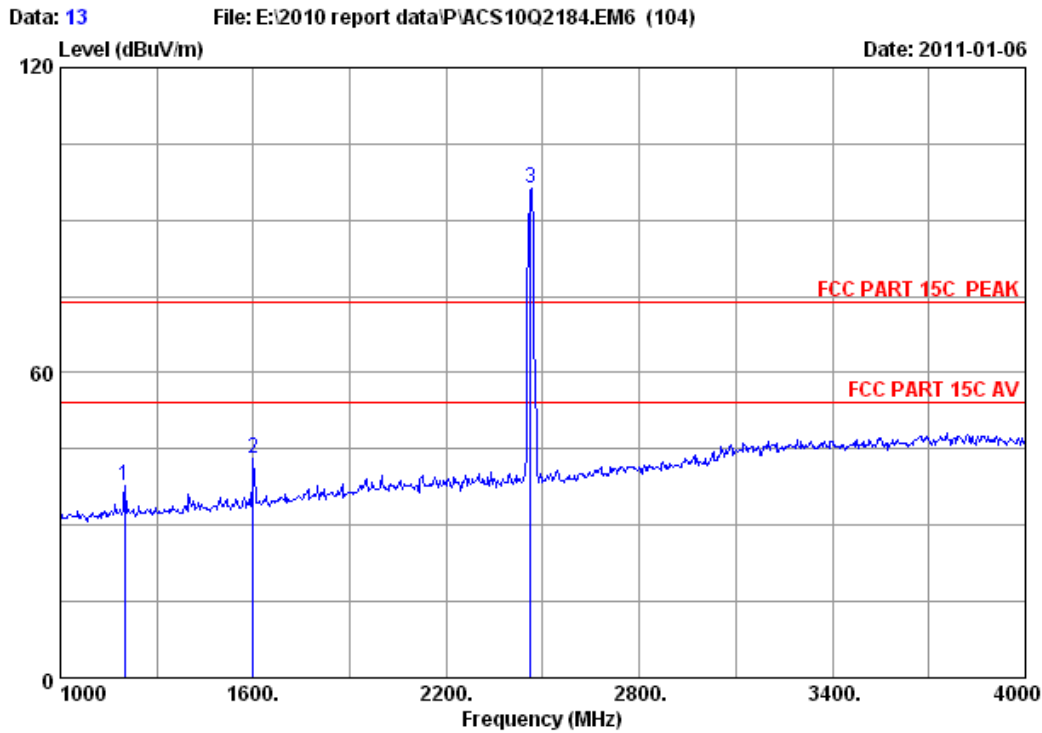


Site no. : 10m Chamber Data no. : 10
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : PW-RN501D

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	10.69	35.03	45.21	55.28	74.00	18.72	Peak
2	4874.000	34.41	10.69	35.03	37.58	47.65	54.00	6.35	Average

Remarks:

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

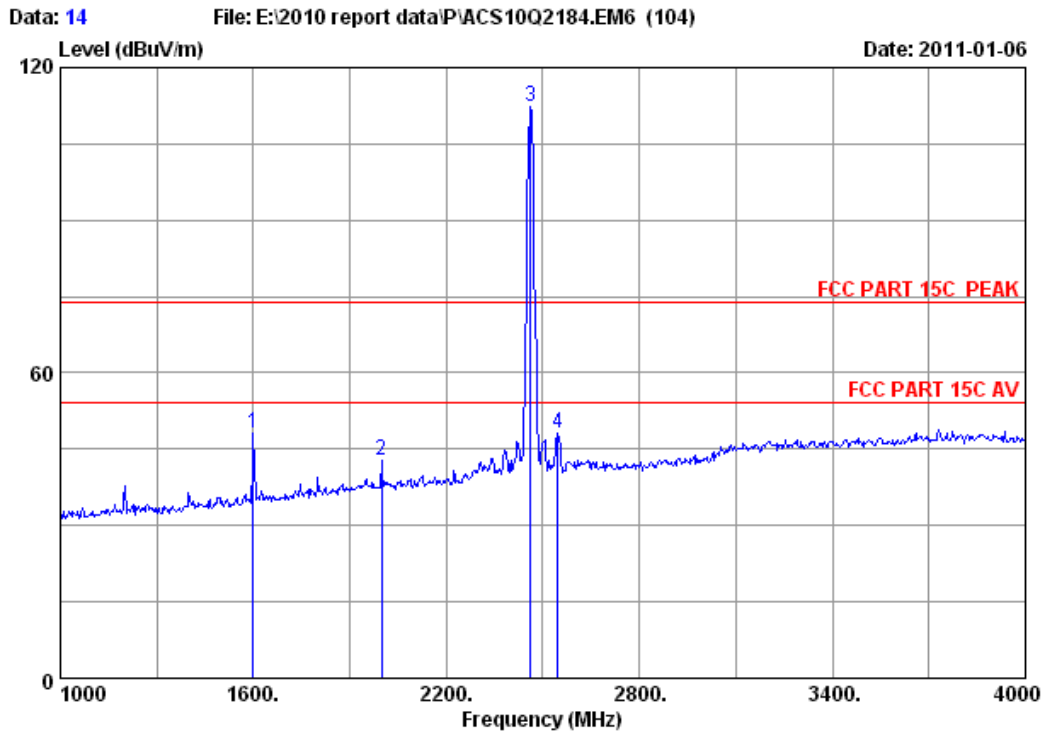


Site no. : 10m Chamber Data no. : 13
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : PW-RN501D

	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	1201.000	25.81	5.16	37.54	44.26	37.69	74.00	36.31	Peak
2	1600.000	26.96	5.91	36.94	47.24	43.17	74.00	30.83	Peak
3	2462.000	29.48	7.54	36.61	95.94	96.35	74.00	-22.35	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.

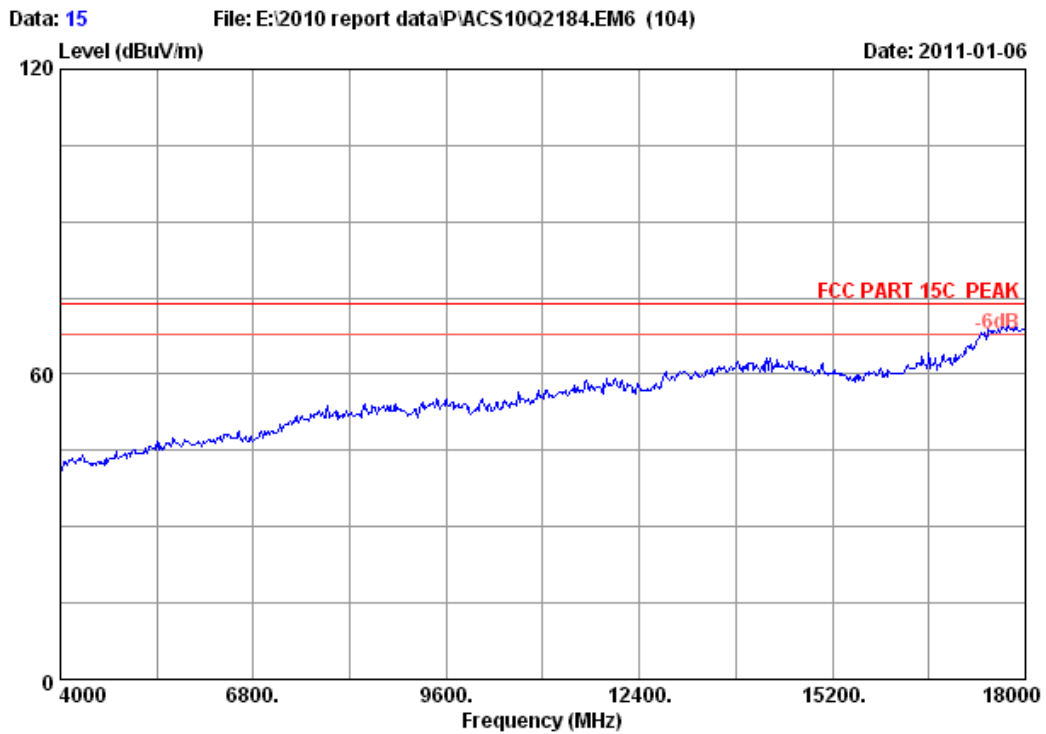


Site no. : 10m Chamber Data no. : 14
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : PW-RN501D

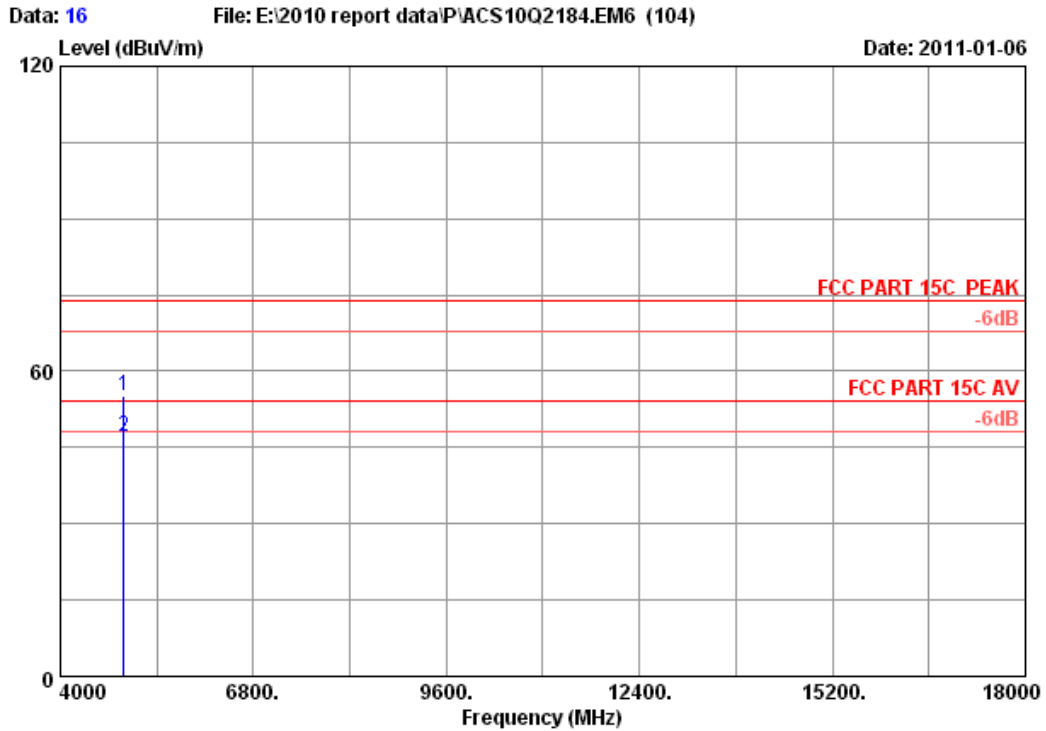
	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1600.000	26.96	5.91	36.94	52.09	48.02	74.00	25.98	Peak
2	1999.000	29.20	6.63	36.70	43.65	42.78	74.00	31.22	Peak
3	2462.000	29.48	7.54	36.61	111.75	112.16	74.00	-38.16	Peak
4	2545.000	29.75	7.69	36.59	47.19	48.04	74.00	25.96	Peak

Remarks:

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



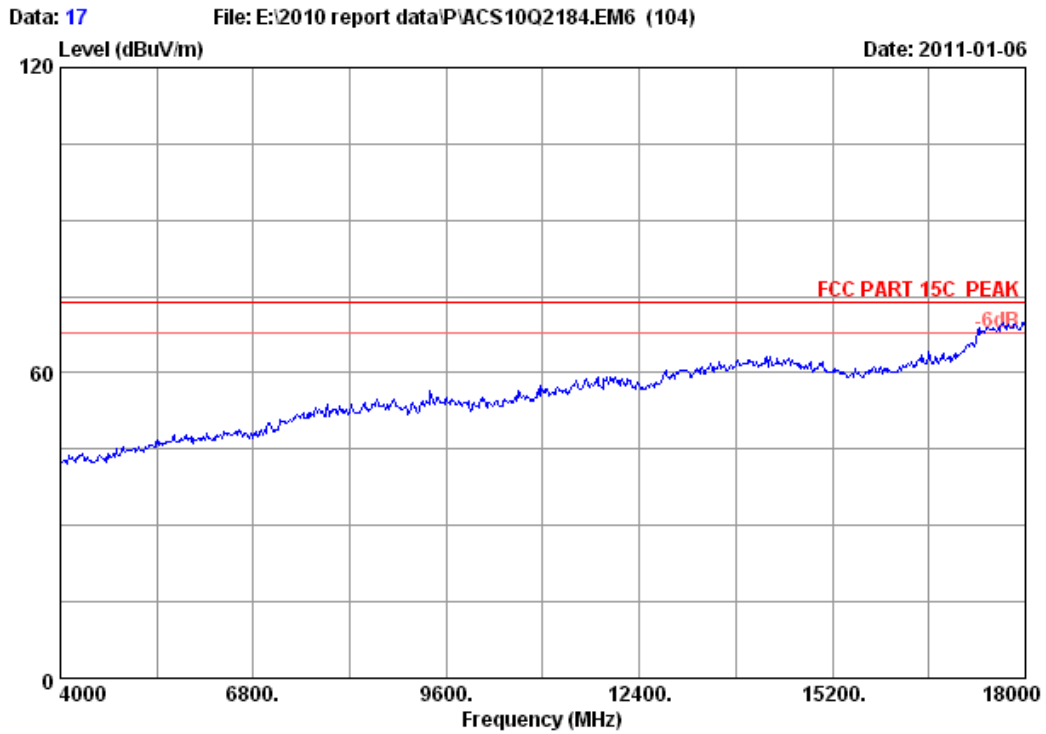
Site no. : 10m Chamber Data no. : 15
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : PW-RN501D



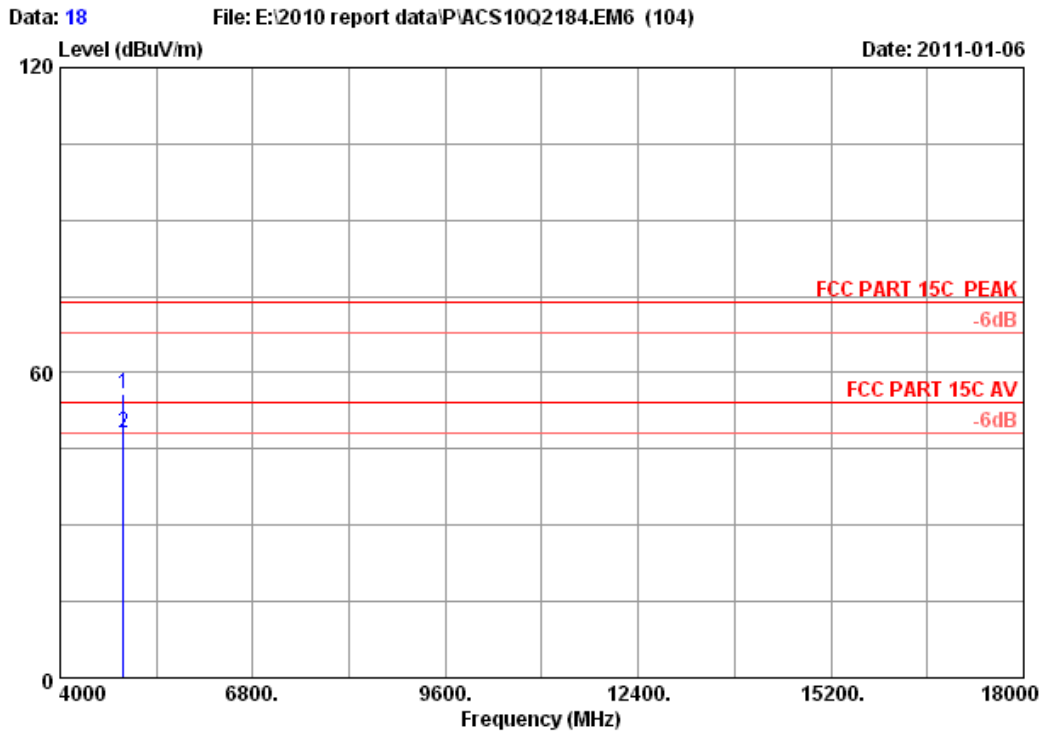
Site no. : 10m Chamber Data no. : 16
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : PW-RN501D

	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	44.97	55.24	74.00	18.76	Peak
2	4924.000	34.49	10.76	34.98	36.85	47.12	54.00	6.88	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. : 10m 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 : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : PW-RN501D

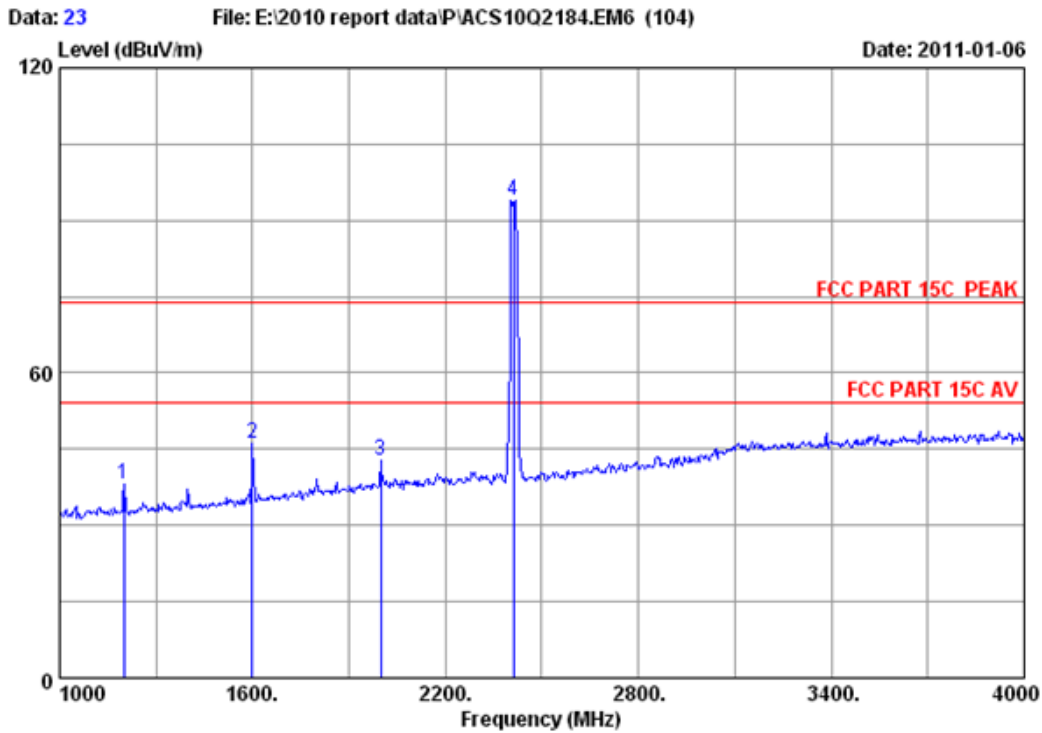


Site no. : 10m Chamber Data no. : 18
 Dis. / Ant. : 3m 3115(O911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : PW-RN501D

	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	45.68	55.95	74.00	18.05	Peak
2	4924.000	34.49	10.76	34.98	37.95	48.22	54.00	5.78	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.

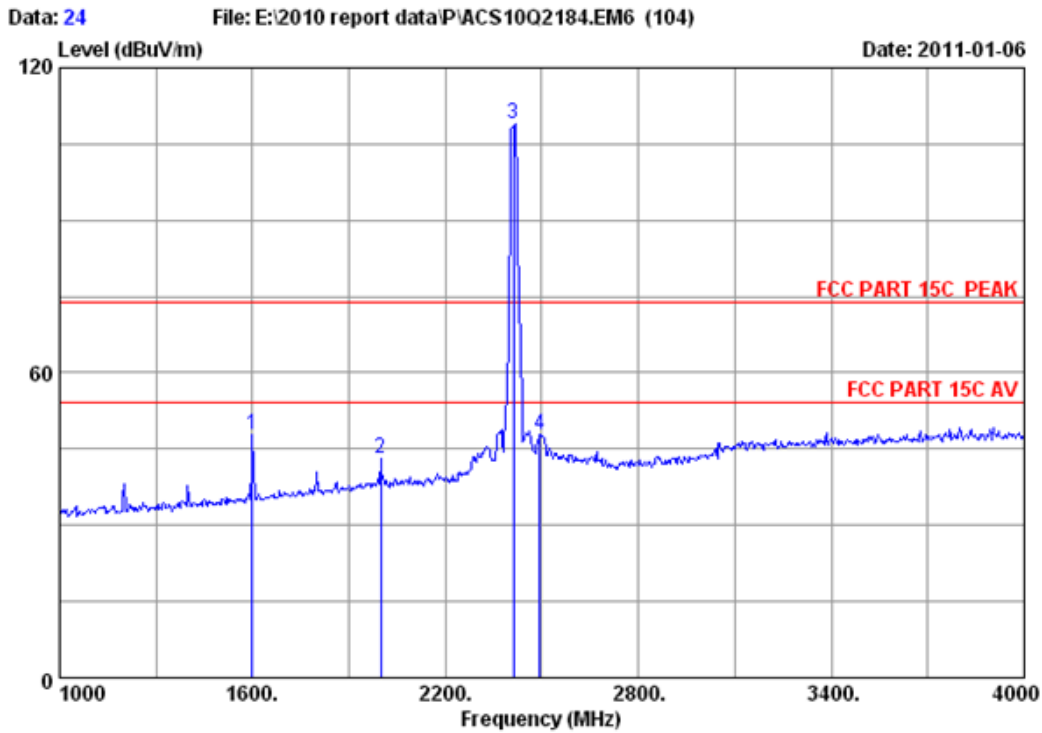


Site no. : 10m Chamber Data no. : 23
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : PW-RN501D

	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	1201.000	25.81	5.16	37.54	44.55	37.98	74.00	36.02	Peak
2	1600.000	26.96	5.91	36.94	50.18	46.11	74.00	27.89	Peak
3	1999.000	29.20	6.63	36.70	43.69	42.82	74.00	31.18	Peak
4	2412.000	29.45	7.43	36.62	93.76	94.02	74.00	-20.02	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.

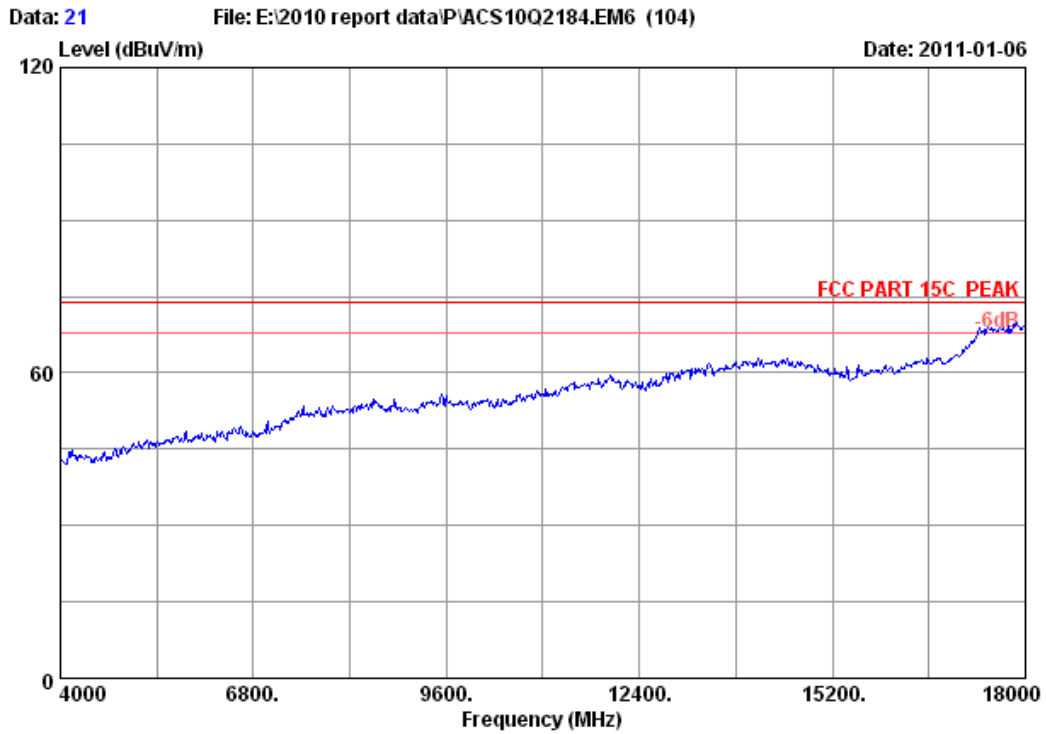


Site no. : 10m Chamber Data no. : 24
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : PW-RN501D

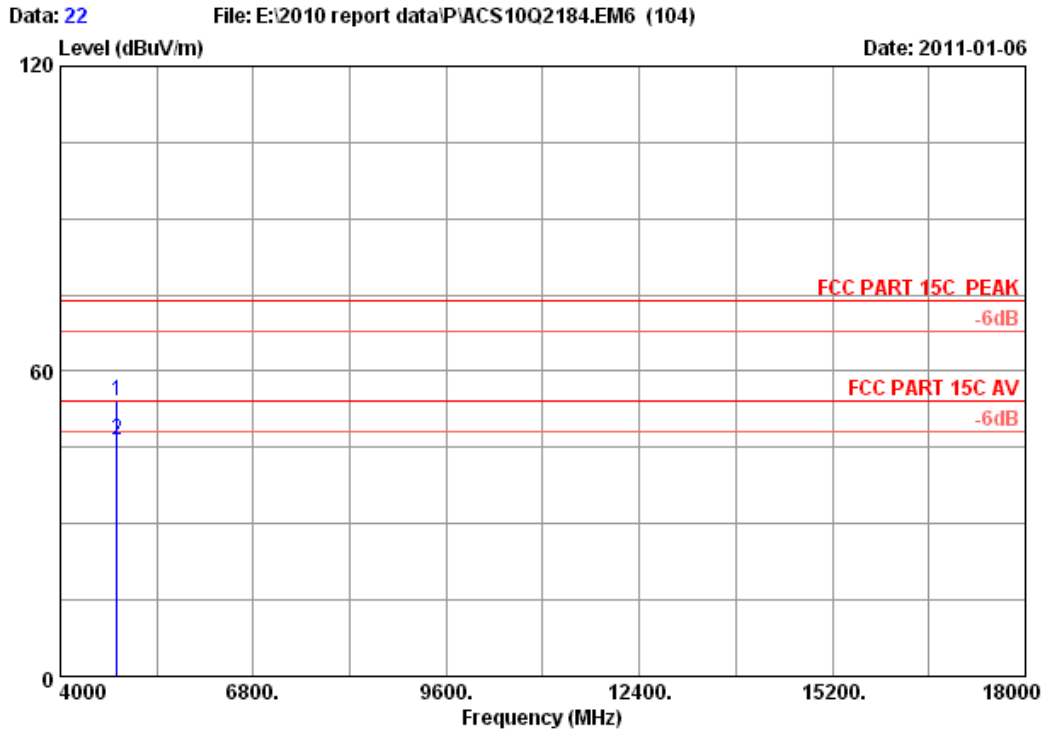
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1600.000	26.96	5.91	36.94	51.89	47.82	74.00	26.18	Peak
2	1999.000	29.20	6.63	36.70	44.14	43.27	74.00	30.73	Peak
3	2412.000	29.45	7.43	36.62	108.57	108.83	74.00	-34.83	Peak
4	2494.000	29.50	7.58	36.60	47.39	47.87	74.00	26.13	Peak

Remarks:

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



Site no. : 10m Chamber Data no. : 21
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : PW-RN501D

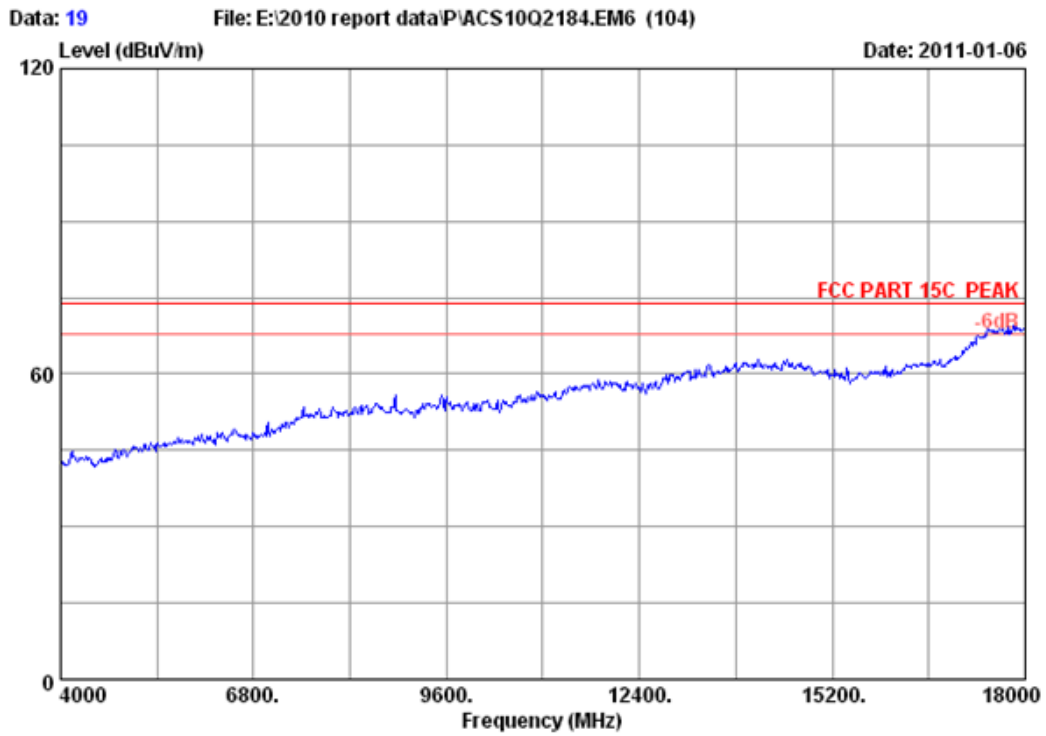


Site no. : 10m Chamber Data no. : 22
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : PW-RN501D

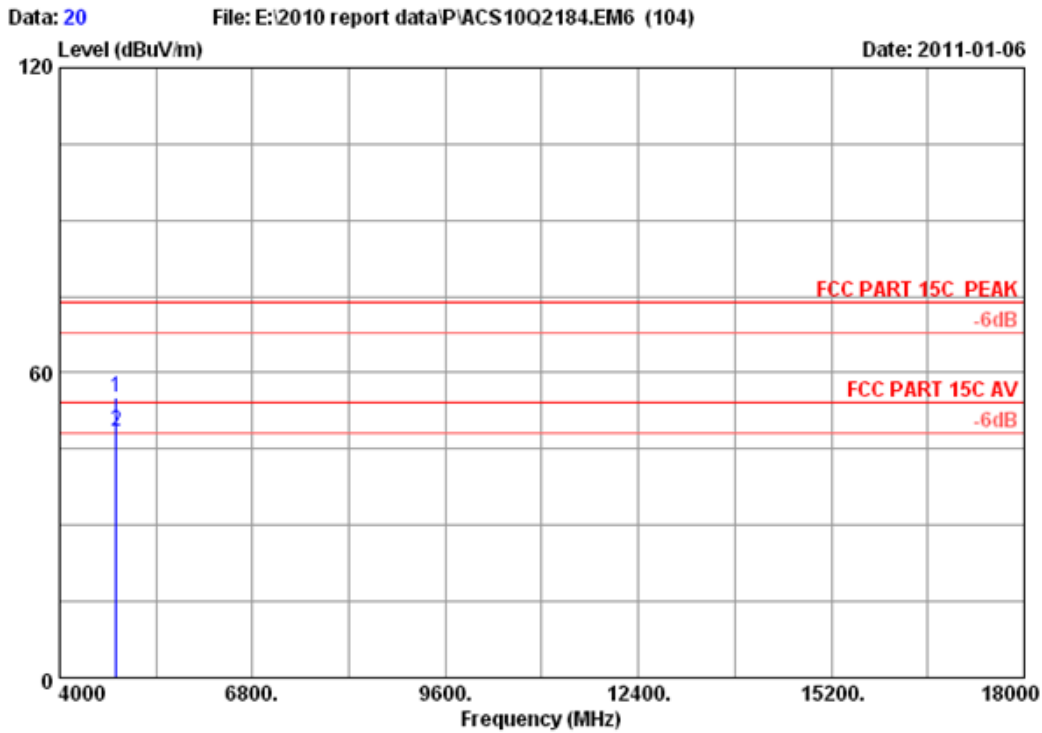
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.32	10.64	35.08	44.16	54.04	74.00	19.96	Peak
2	4824.000	34.32	10.64	35.08	36.49	46.37	54.00	7.63	Average

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. : 10m 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 : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : PW-RN501D

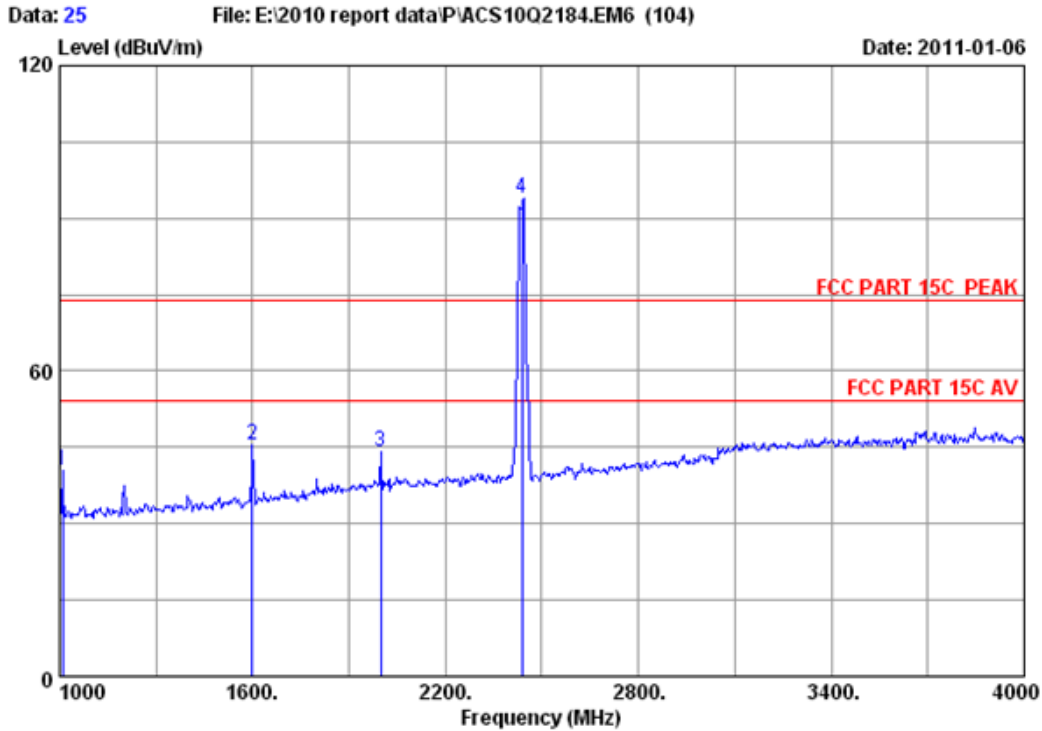


Site no. : 10m Chamber Data no. : 20
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : PW-RN501D

	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	45.16	55.04	74.00	18.96	Peak
2	4824.000	34.32	10.64	35.08	38.42	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.

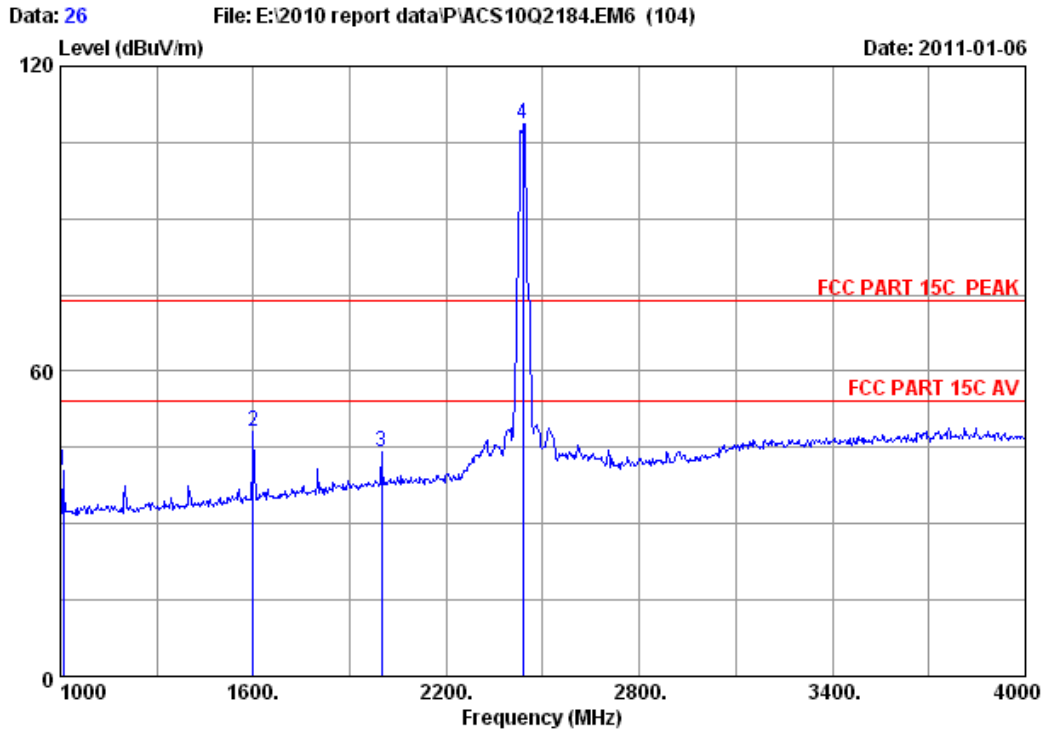


Site no. : 10m Chamber Data no. : 25
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : PW-RN501D

	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	1009.000	25.43	4.78	37.90	48.23	40.54	74.00	33.46	Peak
2	1600.000	26.96	5.91	36.94	49.42	45.35	74.00	28.65	Peak
3	1999.000	29.20	6.63	36.70	44.93	44.06	74.00	29.94	Peak
4	2437.000	29.47	7.46	36.61	93.44	93.76	74.00	-19.76	Peak

Remarks:

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

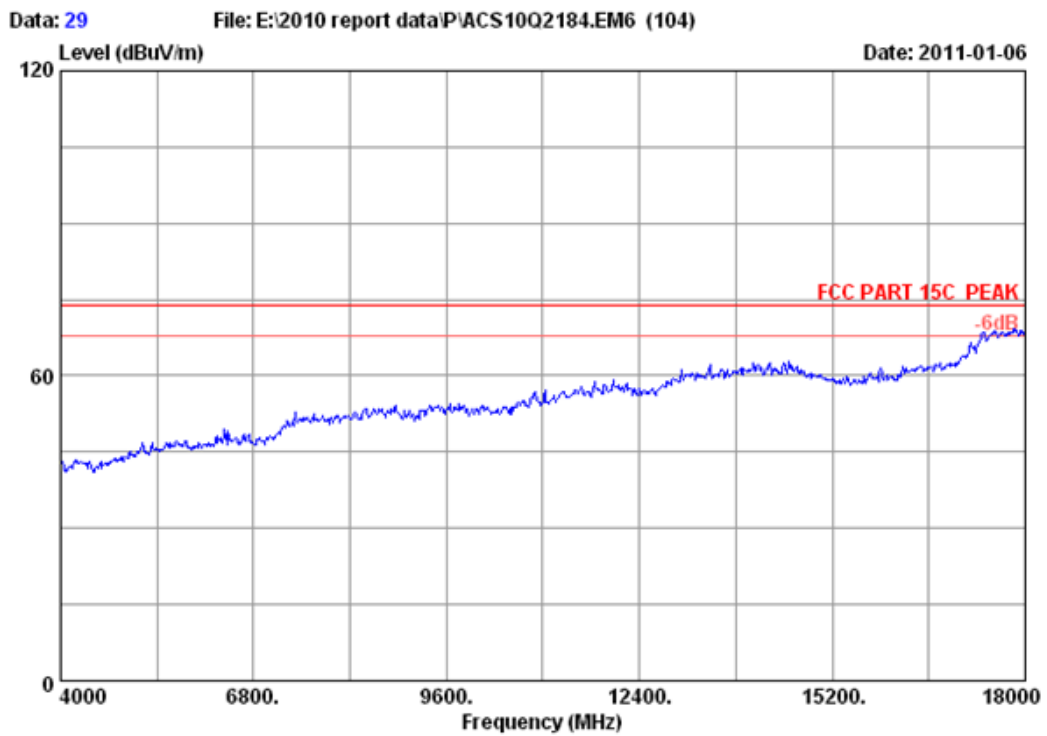


Site no. : 10m Chamber Data no. : 26
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : PW-RN501D

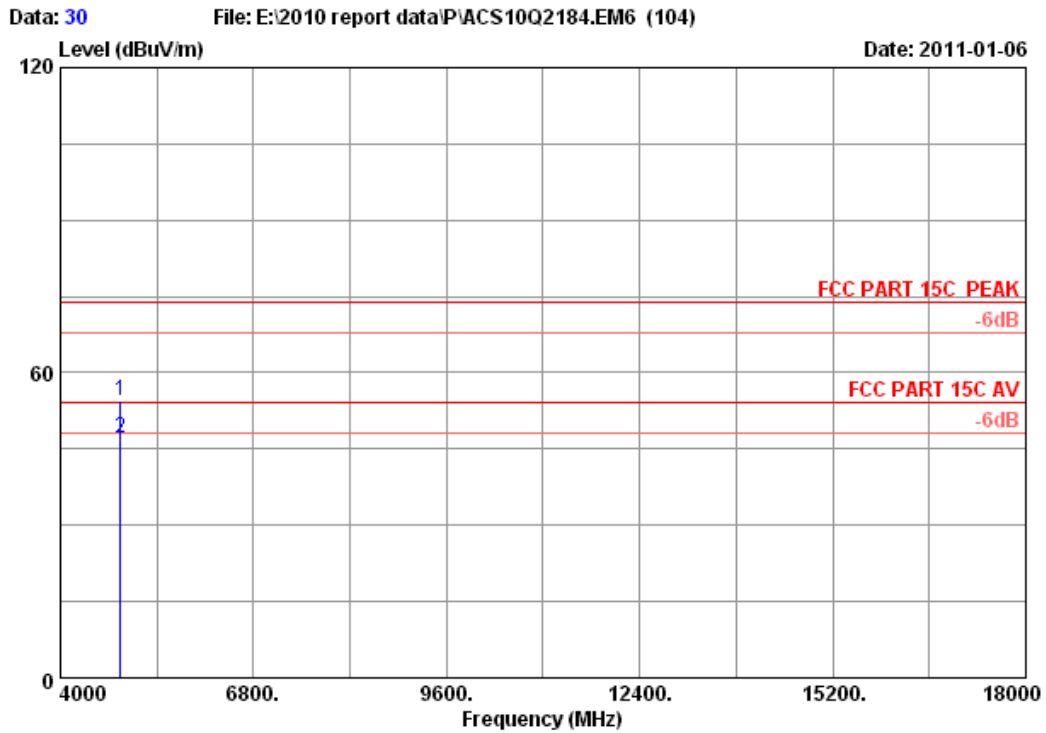
	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1009.000	25.43	4.78	37.90	48.23	40.54	74.00	33.46	Peak
2	1600.000	26.96	5.91	36.94	52.06	47.99	74.00	26.01	Peak
3	1999.000	29.20	6.63	36.70	44.93	44.06	74.00	29.94	Peak
4	2437.000	29.47	7.46	36.61	108.26	108.58	74.00	-34.58	Peak

Remarks:

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



Site no. : 10m 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 : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : PW-RN501D

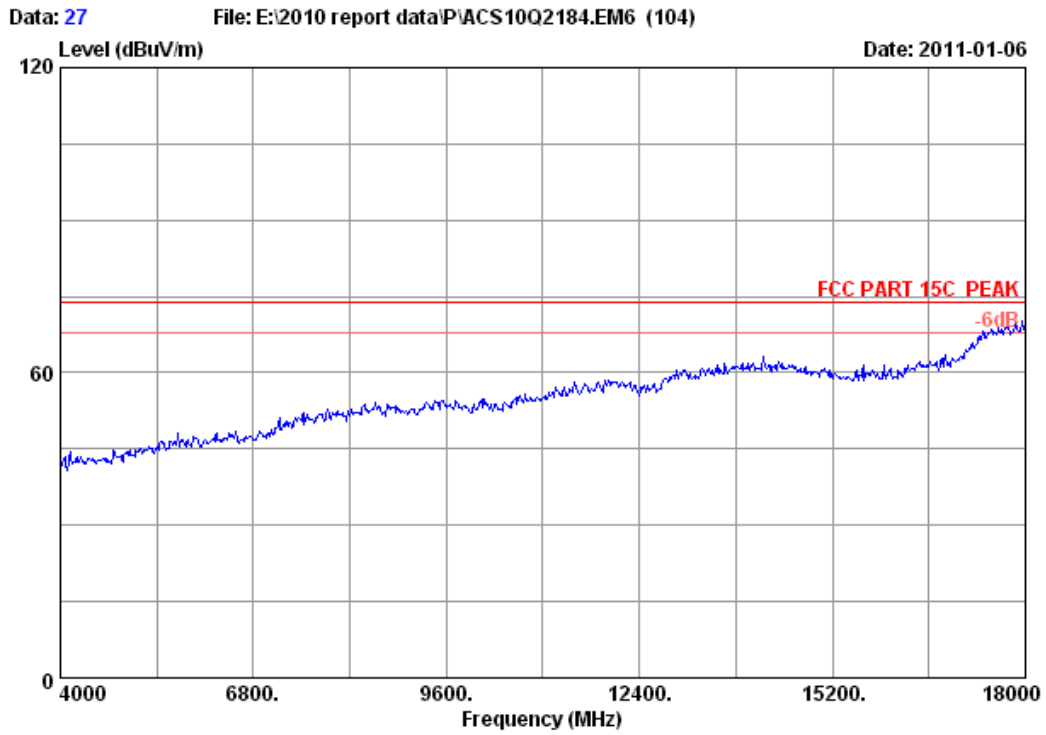


Site no. : 10m Chamber Data no. : 30
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : PW-RN501D

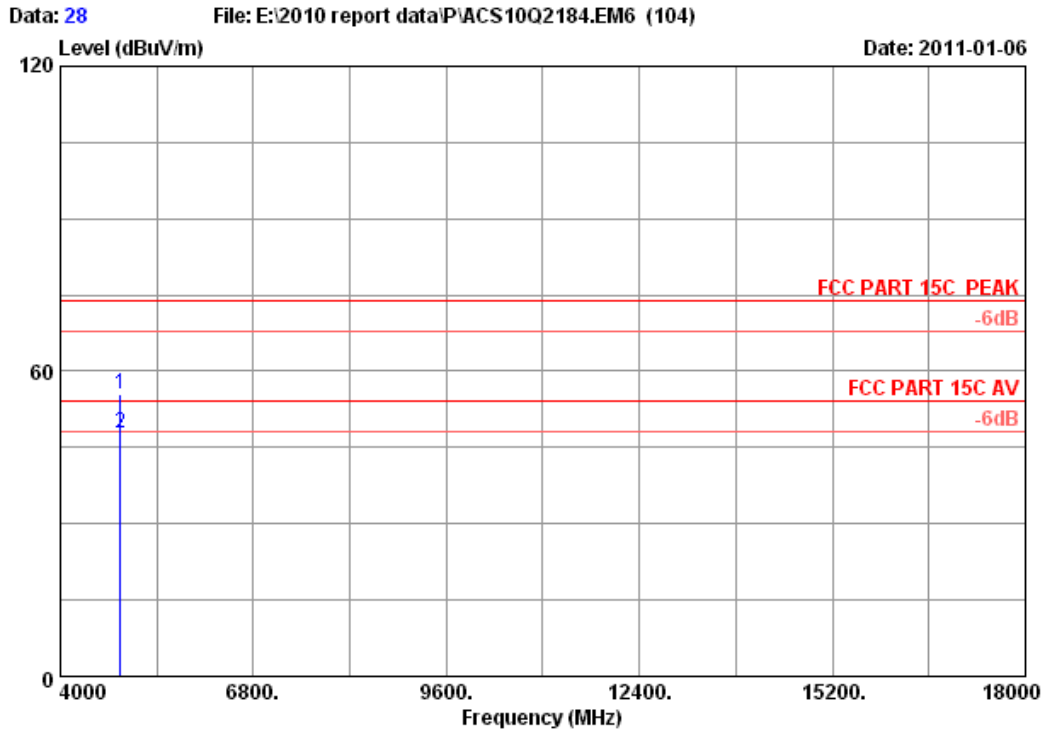
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	10.69	35.03	44.50	54.57	74.00	19.43	Peak
2	4874.000	34.41	10.69	35.03	36.98	47.05	54.00	6.95	Average

Remarks:

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



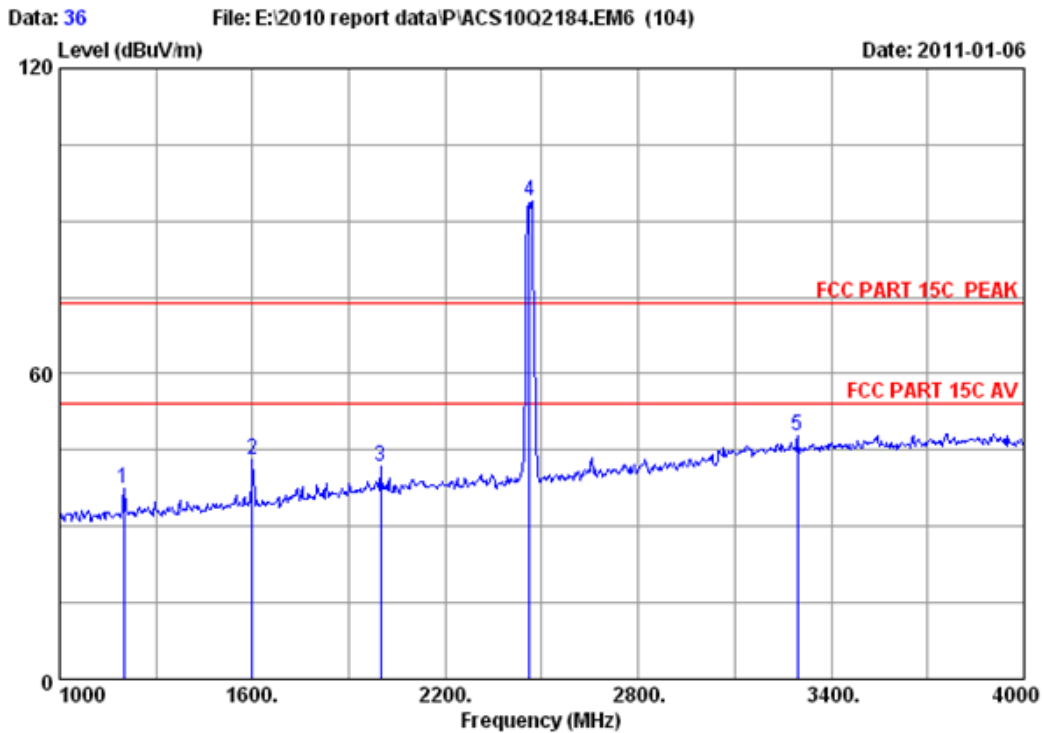
Site no. : 10m Chamber Data no. : 27
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : PW-RN501D



Site no. : 10m 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 : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : PW-RN501D

	Freq.	Ant.	Cable	Amp.	Reading	Emission	Limits	Margin	Remark
	(MHz)	(dB/m)	loss	Factor	(dBuV)	Level	(dBuV/m)	(dB)	
			(dB)	(dB)		(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	10.69	35.03	45.32	55.39	74.00	18.61	Peak
2	4874.000	34.41	10.69	35.03	37.85	47.92	54.00	6.08	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.

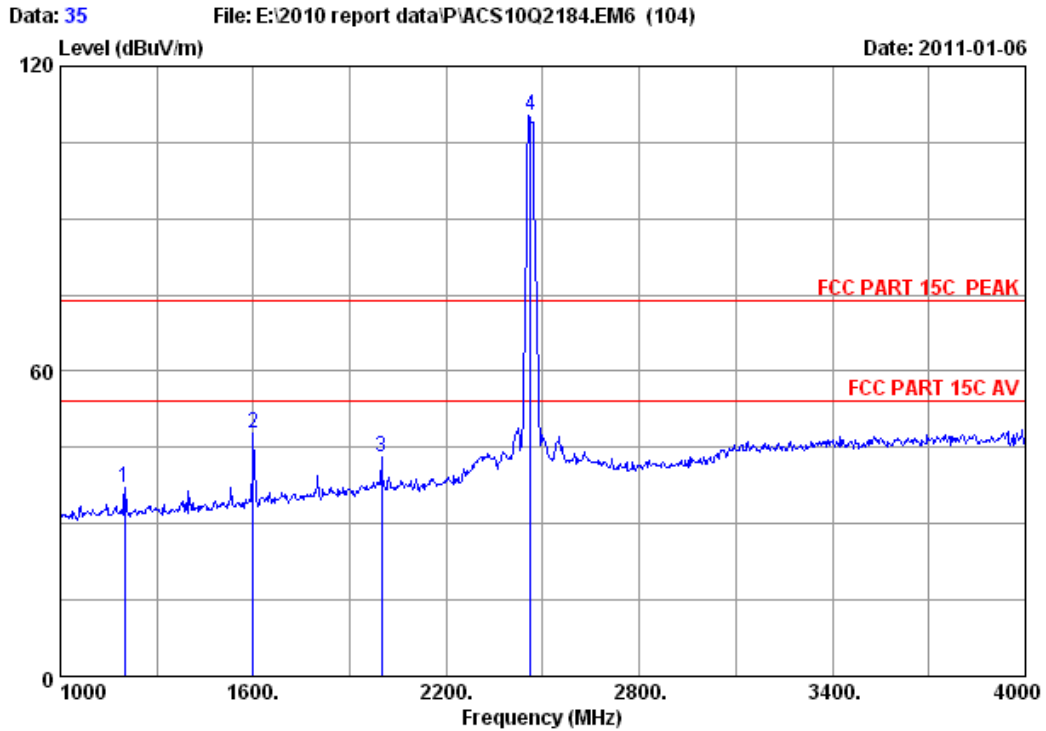


Site no. : 10m Chamber Data no. : 36
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : PW-RN501D

	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	1201.000	25.81	5.16	37.54	43.85	37.28	74.00	36.72	Peak
2	1600.000	26.96	5.91	36.94	47.33	43.26	74.00	30.74	Peak
3	1999.000	29.20	6.63	36.70	42.75	41.88	74.00	32.12	Peak
4	2462.000	29.48	7.54	36.61	93.46	93.87	74.00	-19.87	Peak
5	3295.000	32.76	8.88	36.20	42.45	47.89	74.00	26.11	Peak

Remarks:

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

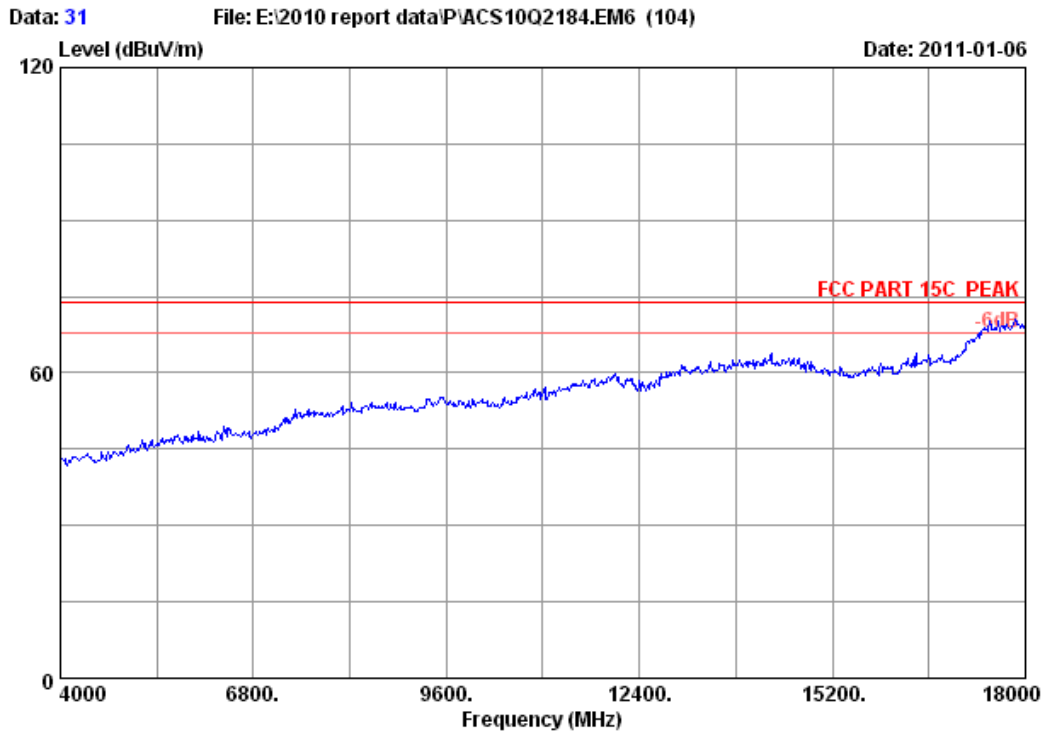


Site no. : 10m Chamber Data no. : 35
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : PW-RN501D

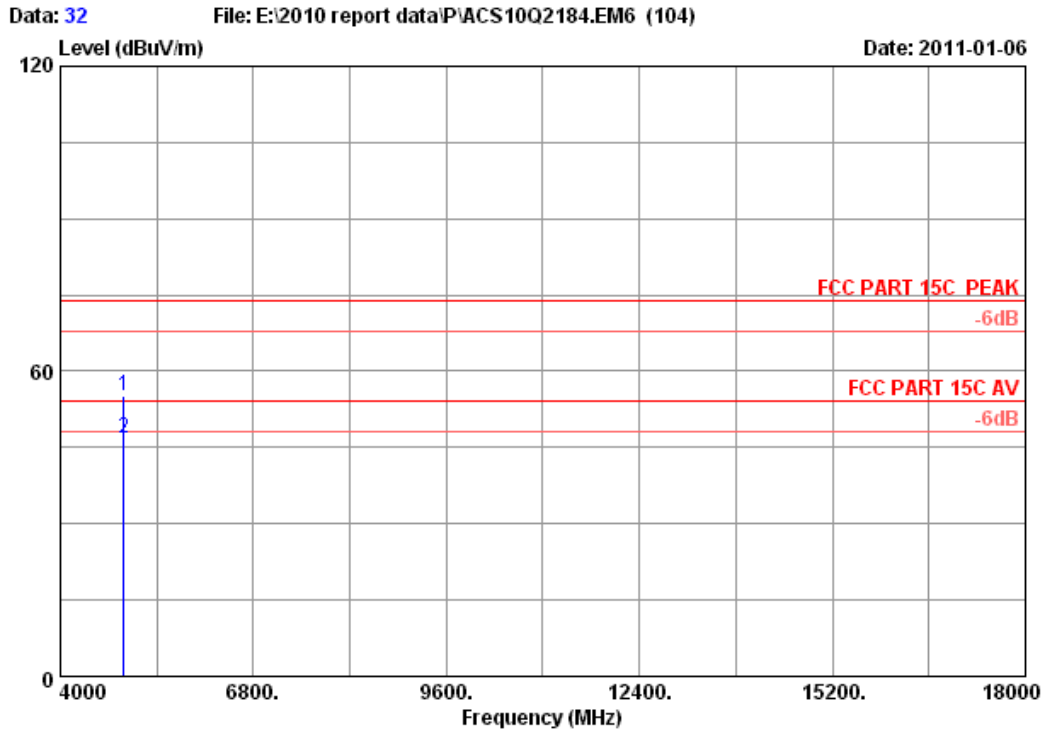
	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1201.000	25.81	5.16	37.54	43.56	36.99	74.00	37.01	Peak
2	1600.000	26.96	5.91	36.94	52.03	47.96	74.00	26.04	Peak
3	1999.000	29.20	6.63	36.70	43.85	42.98	74.00	31.02	Peak
4	2462.000	29.48	7.54	36.61	109.79	110.20	74.00	-36.20	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.



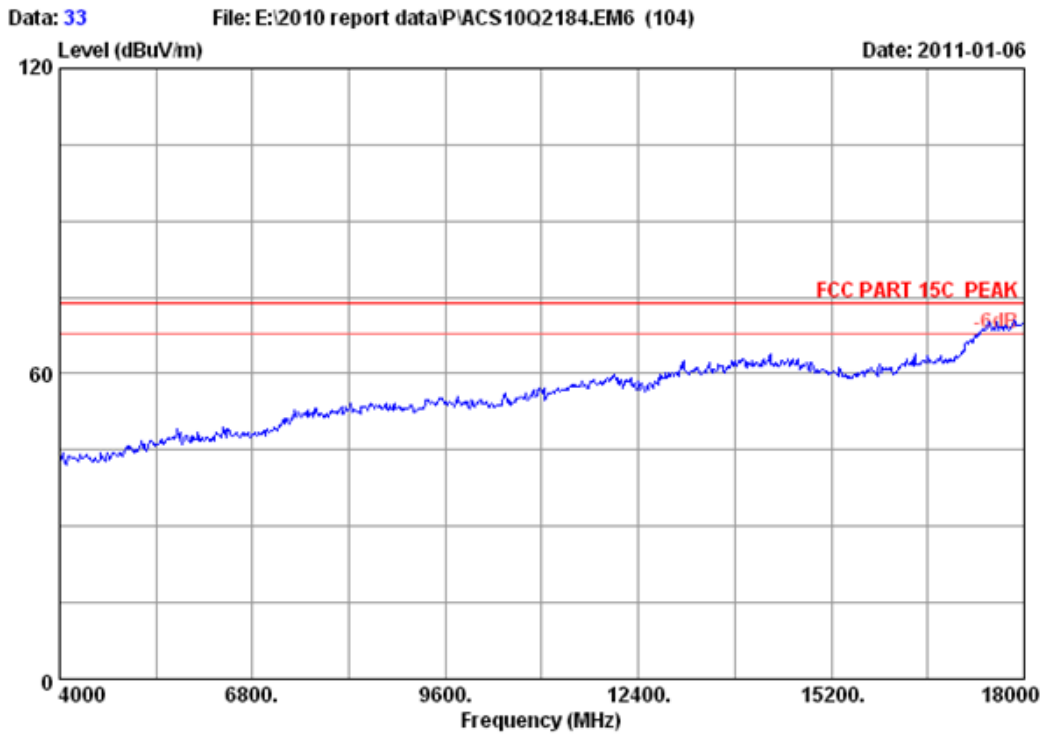
Site no. : 10m Chamber Data no. : 31
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : PW-RN501D



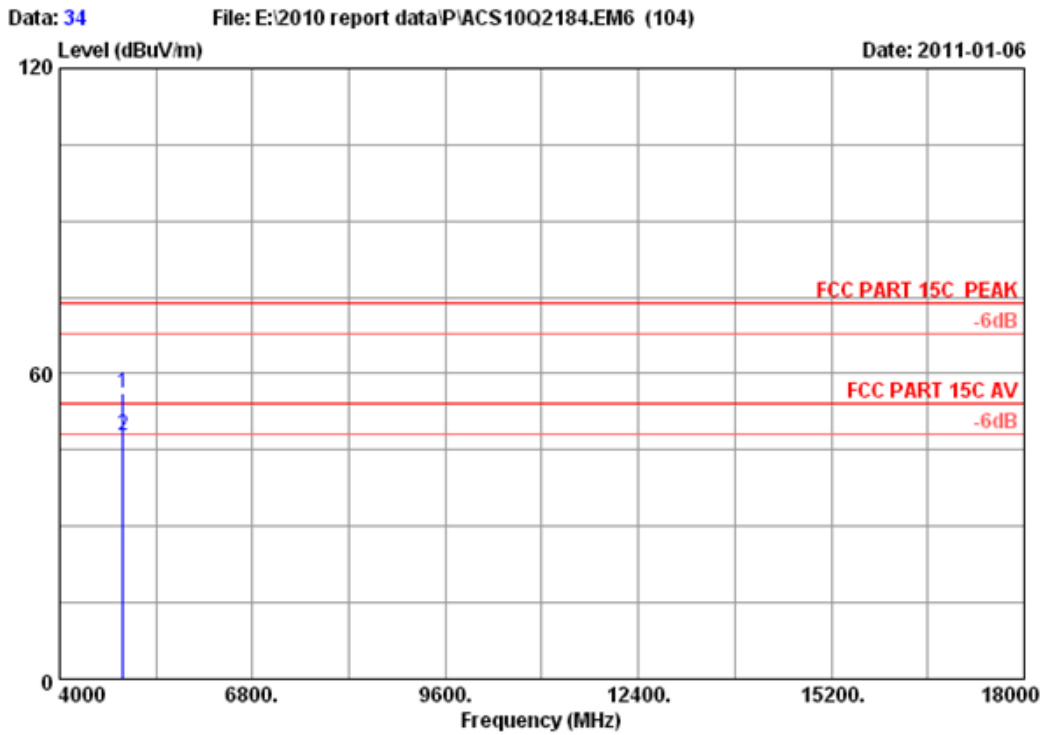
Site no. : 10m Chamber Data no. : 32
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : PW-RN501D

	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	44.95	55.22	74.00	18.78	Peak
2	4924.000	34.49	10.76	34.98	36.47	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. : 10m Chamber Data no. : 33
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : PW-RN501D

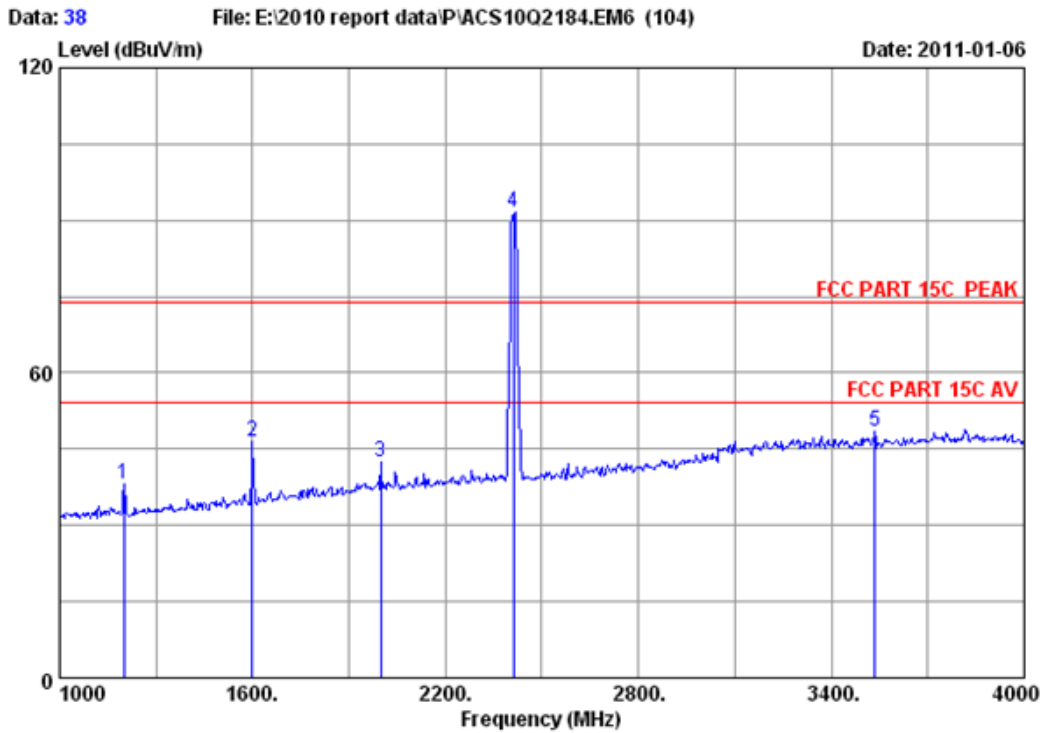


Site no. : 10m Chamber Data no. : 34
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : PW-RN501D

	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	45.97	56.24	74.00	17.76	Peak
2	4924.000	34.49	10.76	34.98	37.42	47.69	54.00	6.31	Average

Remarks:

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

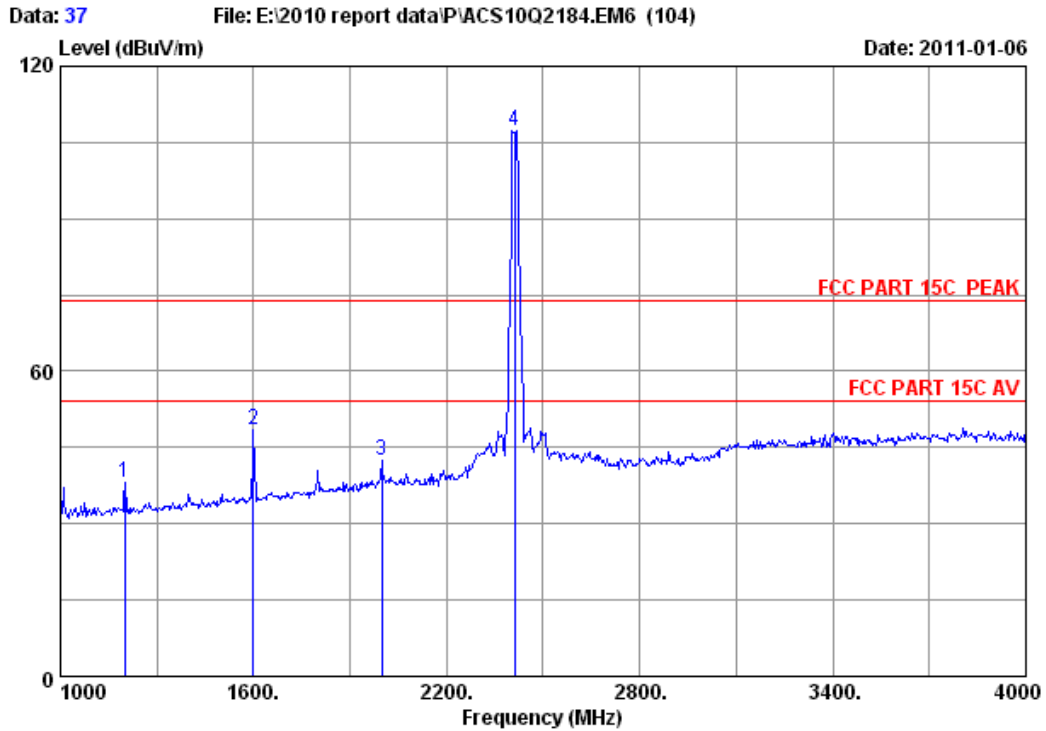


Data: 38 File: E:\2010 report data\P\ACS10Q2184.EM6 (104) Date: 2011-01-06
 Site no. : 10m Chamber Data no. : 38
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : PW-RN501D

	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	1201.000	25.81	5.16	37.54	44.69	38.12	74.00	35.88	Peak
2	1600.000	26.96	5.91	36.94	50.68	46.61	74.00	27.39	Peak
3	1999.000	29.20	6.63	36.70	43.24	42.37	74.00	31.63	Peak
4	2412.000	29.45	7.43	36.62	91.37	91.63	74.00	-17.63	Peak
5	3535.000	33.35	9.16	35.98	41.88	48.41	74.00	25.59	Peak

Remarks:

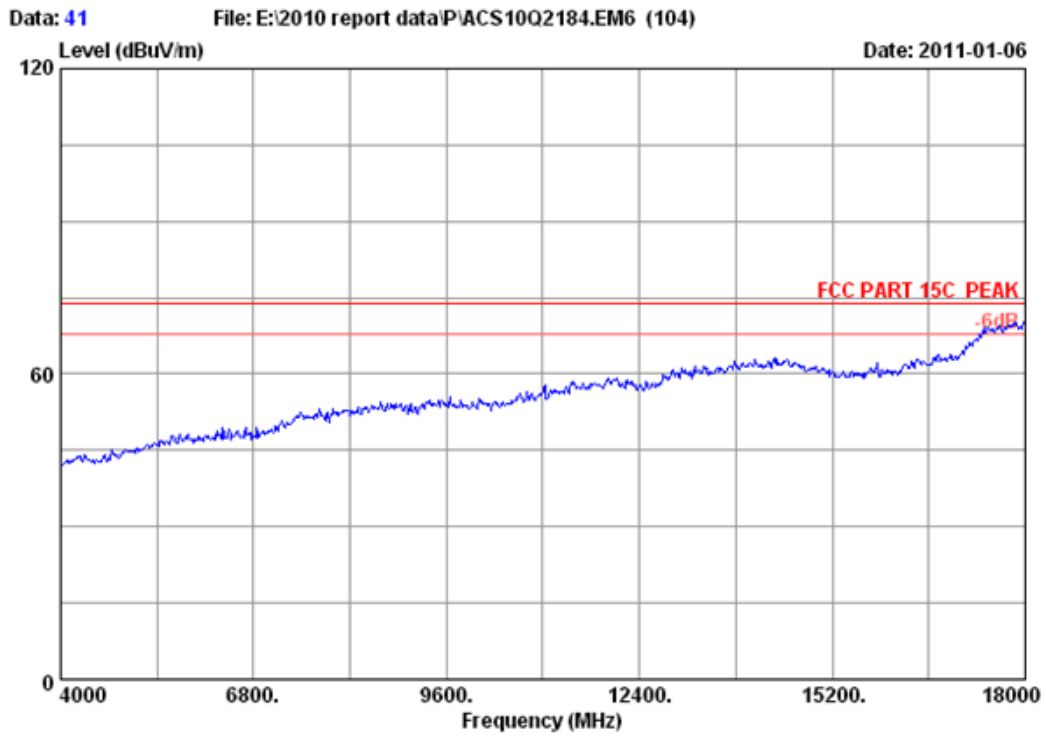
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



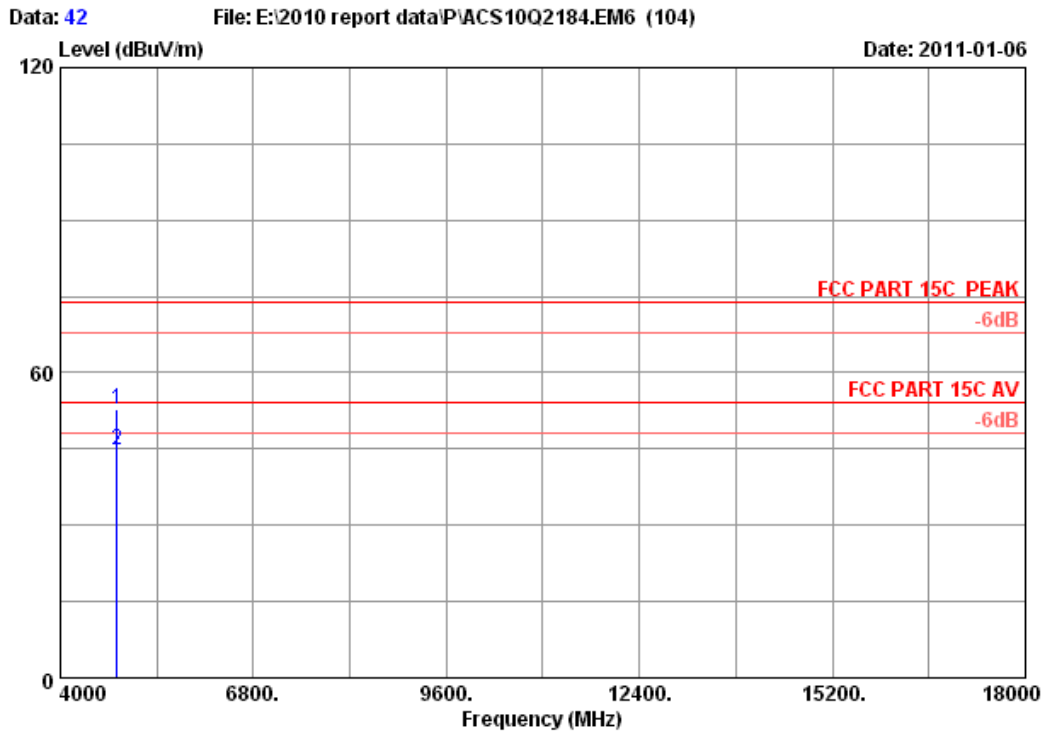
Site no. : 10m Chamber Data no. : 37
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : PW-RN501D

	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	1201.000	25.81	5.16	37.54	44.59	38.02	74.00	35.98	Peak
2	1600.000	26.96	5.91	36.94	52.53	48.46	74.00	25.54	Peak
3	1999.000	29.20	6.63	36.70	43.19	42.32	74.00	31.68	Peak
4	2412.000	29.45	7.43	36.62	107.05	107.31	74.00	-33.31	Peak

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



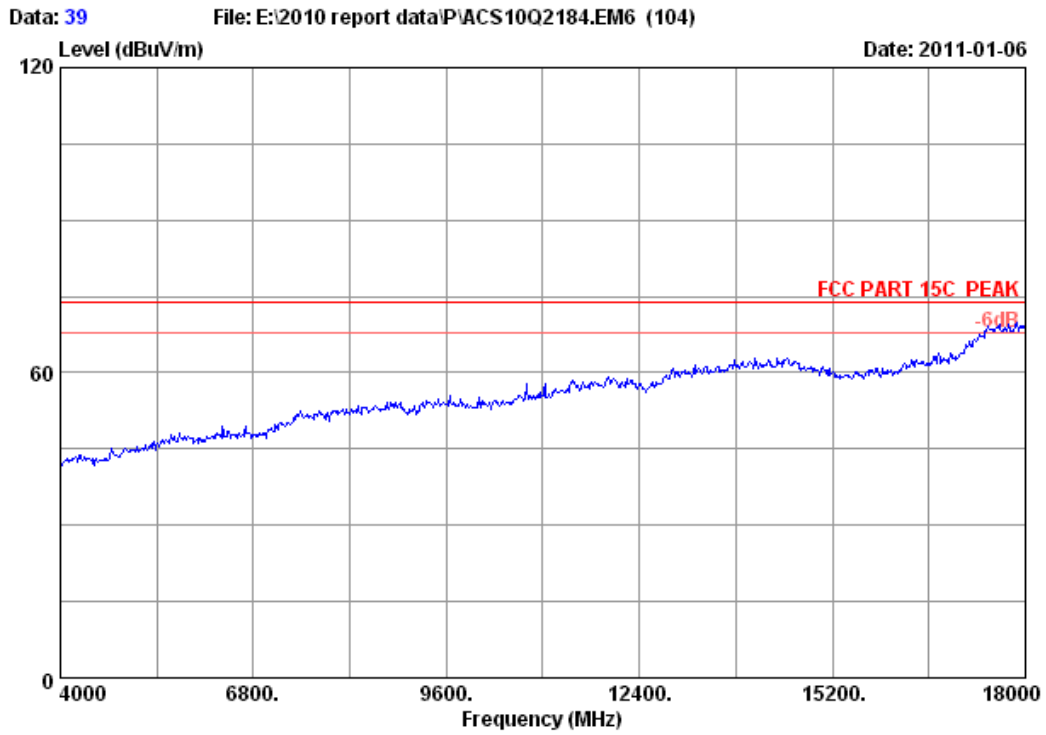
Site no. : 10m Chamber Data no. : 41
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
M/N : PW-RN501D



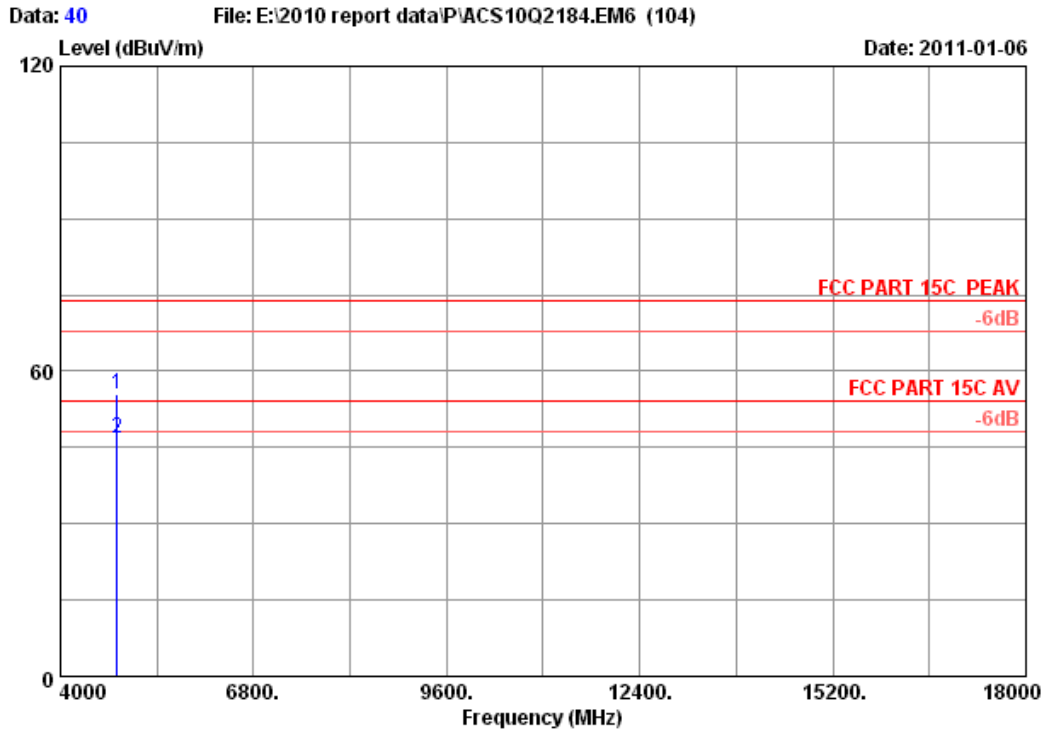
Site no. : 10m Chamber Data no. : 42
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : PW-RN501D

	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	4824.000	34.32	10.64	35.08	42.91	52.79	74.00	21.21	Peak
2	4824.000	34.32	10.64	35.08	34.99	44.87	54.00	9.13	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.	: 10m 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	: 300Mbps Wireless N Router		
Power	: DC 9V From Adapter Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT20 CH1 2412MHz Tx		
M/N	: PW-RN501D		

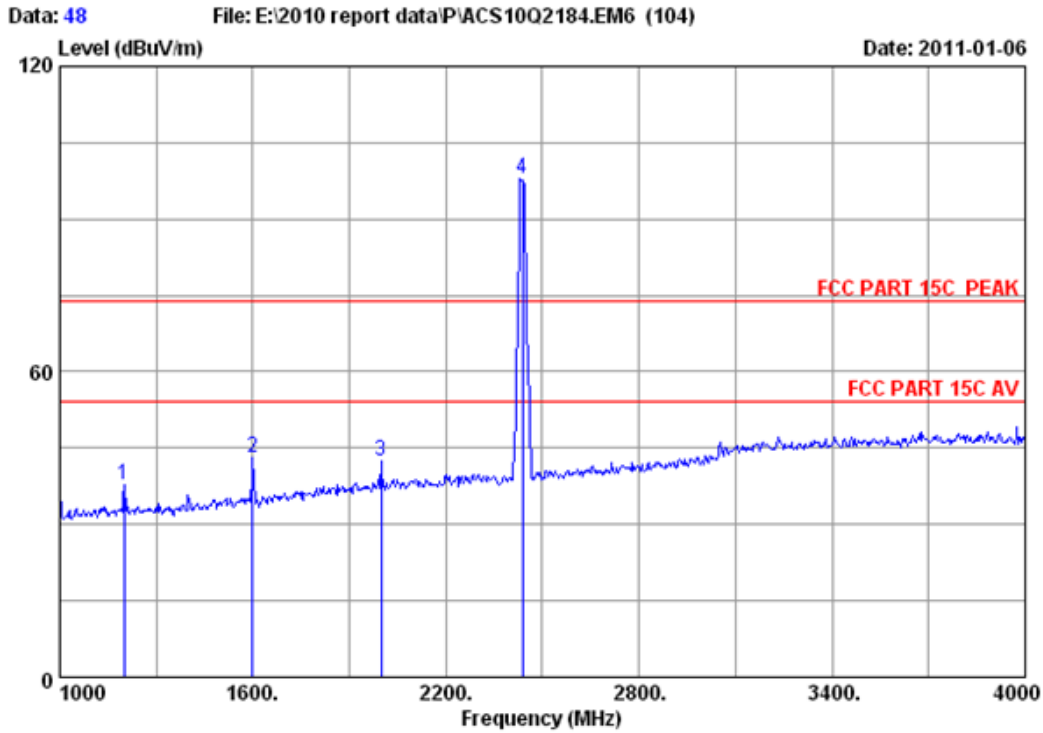


Site no. : 10m Chamber Data no. : 40
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : PW-RN501D

	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	4824.000	34.32	10.64	35.08	45.76	55.64	74.00	18.36	Peak
2	4824.000	34.32	10.64	35.08	36.85	46.73	54.00	7.27	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.

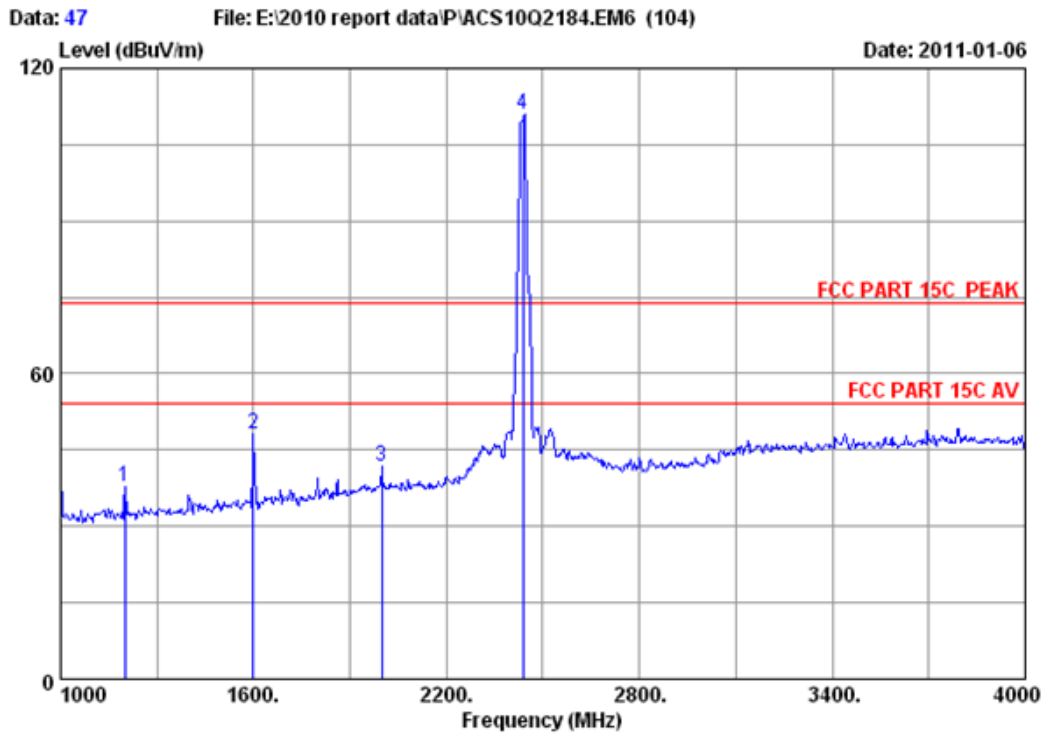


Site no. : 10m Chamber Data no. : 48
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : PW-RN501D

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission			Remark
						Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	
1	1201.000	25.81	5.16	37.54	44.50	37.93	74.00	36.07	Peak
2	1600.000	26.96	5.91	36.94	47.25	43.18	74.00	30.82	Peak
3	1999.000	29.20	6.63	36.70	43.37	42.50	74.00	31.50	Peak
4	2437.000	29.47	7.46	36.61	97.49	97.81	74.00	-23.81	Peak

Remarks:

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

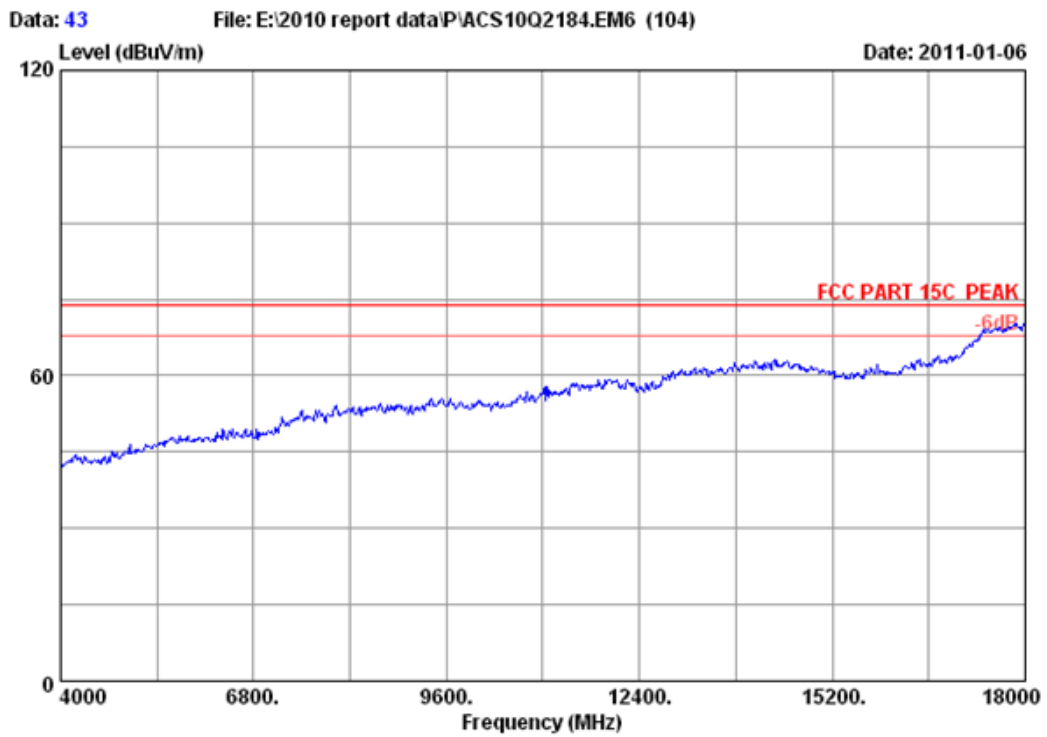


Site no. : 10m Chamber Data no. : 47
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : PW-RN501D

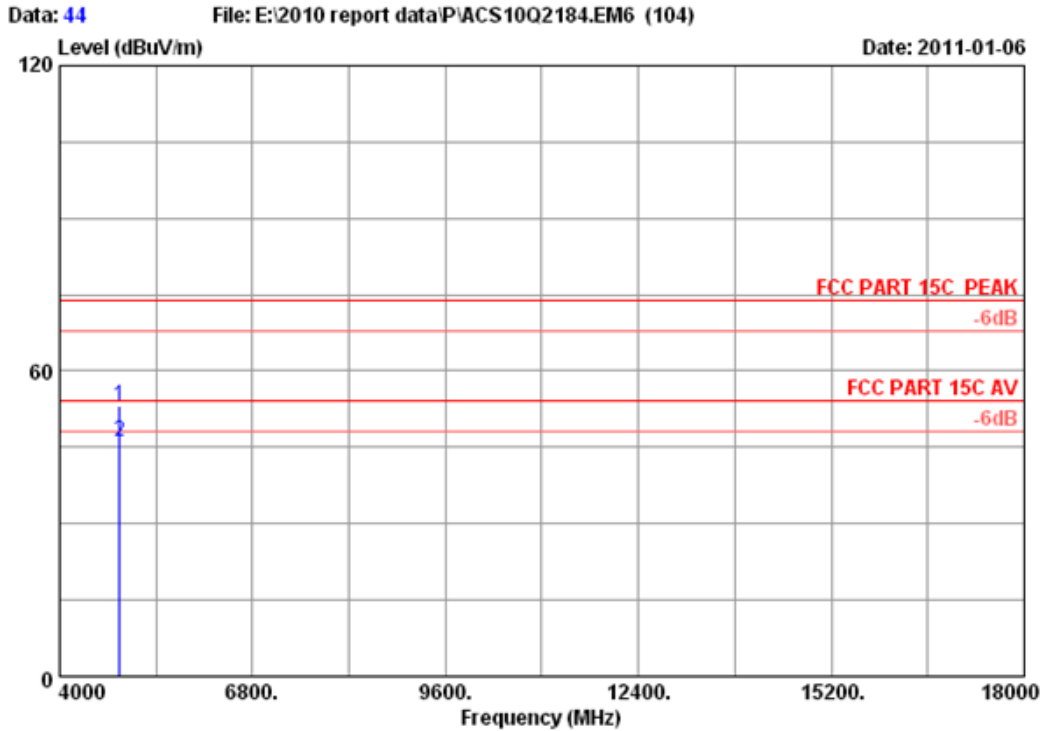
	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	1201.000	25.81	5.16	37.54	44.46	37.89	74.00	36.11	Peak
2	1600.000	26.96	5.91	36.94	52.13	48.06	74.00	25.94	Peak
3	1999.000	29.20	6.63	36.70	42.80	41.93	74.00	32.07	Peak
4	2437.000	29.47	7.46	36.61	110.55	110.87	74.00	-36.87	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. : 10m 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 : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
M/N : PW-RN501D

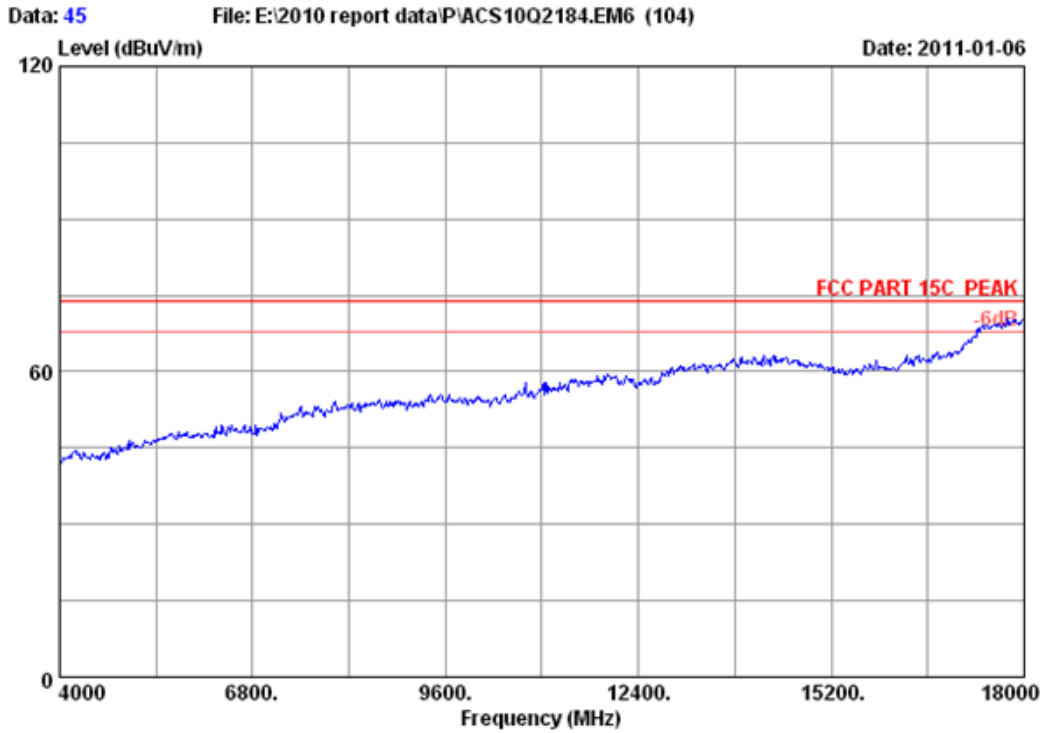


Site no. : 10m Chamber Data no. : 44
 Dis. / Ant. : 3m 3115(O911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : PW-RN501D

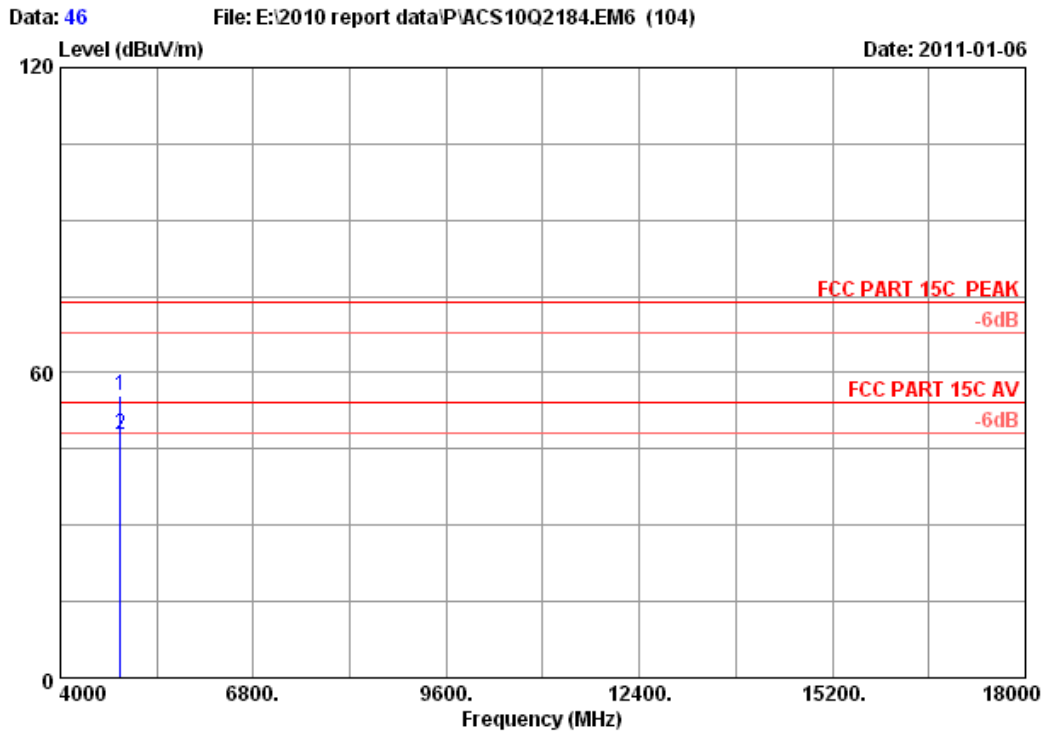
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	10.69	35.03	43.04	53.11	74.00	20.89	Peak
2	4874.000	34.41	10.69	35.03	36.10	46.17	54.00	7.83	Average

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.



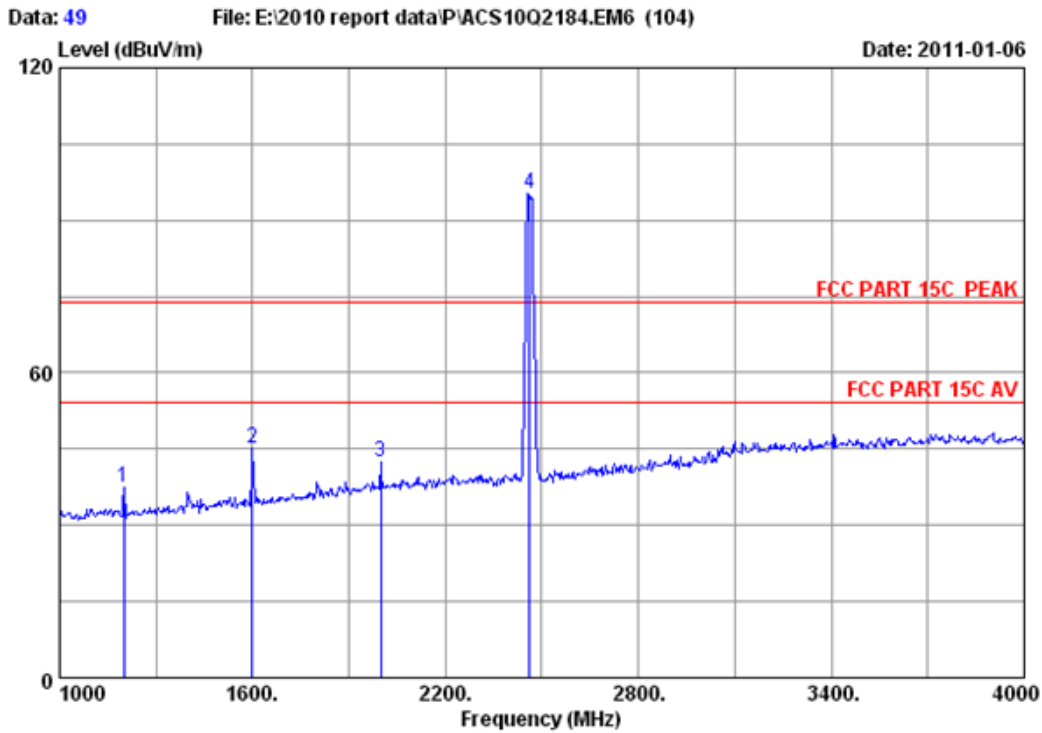
Site no. : 10m Chamber Data no. : 45
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
M/N : PW-RN501D



Site no. : 10m Chamber Data no. : 46
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : PW-RN501D

	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	45.41	55.48	74.00	18.52	Peak
2	4874.000	34.41	10.69	35.03	37.86	47.93	54.00	6.07	Average

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

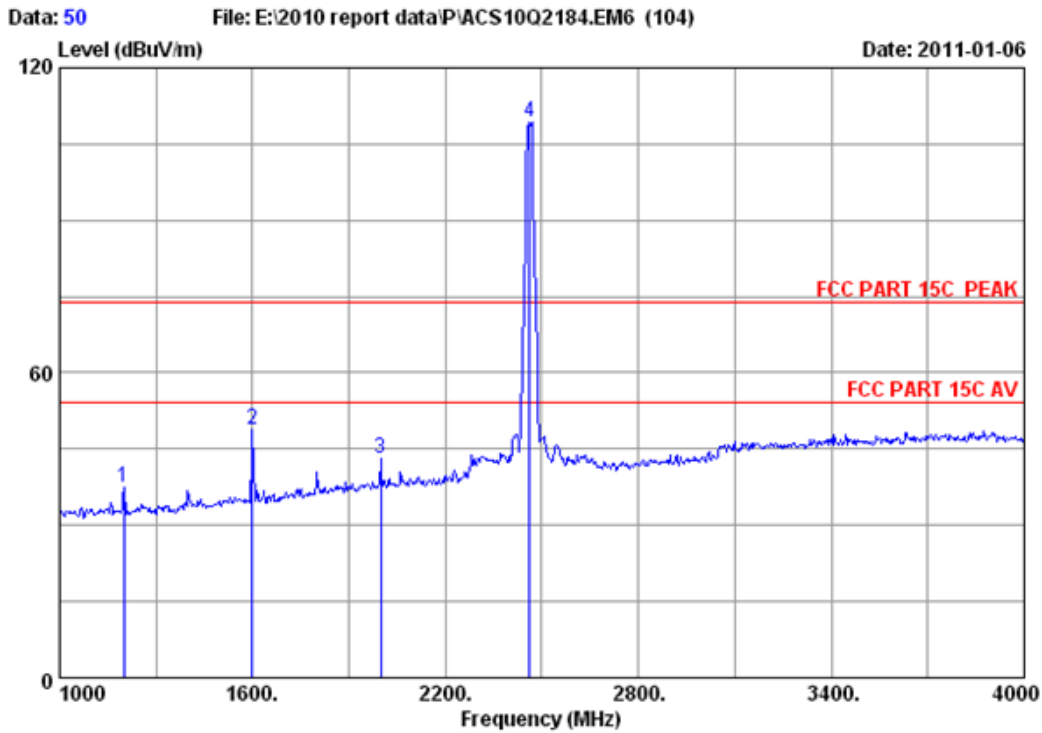


Site no. : 10m Chamber Data no. : 49
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : PW-RN501D

	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	1201.000	25.81	5.16	37.54	44.02	37.45	74.00	36.55	Peak
2	1600.000	26.96	5.91	36.94	49.21	45.14	74.00	28.86	Peak
3	1999.000	29.20	6.63	36.70	43.38	42.51	74.00	31.49	Peak
4	2462.000	29.48	7.54	36.61	94.84	95.25	74.00	-21.25	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.

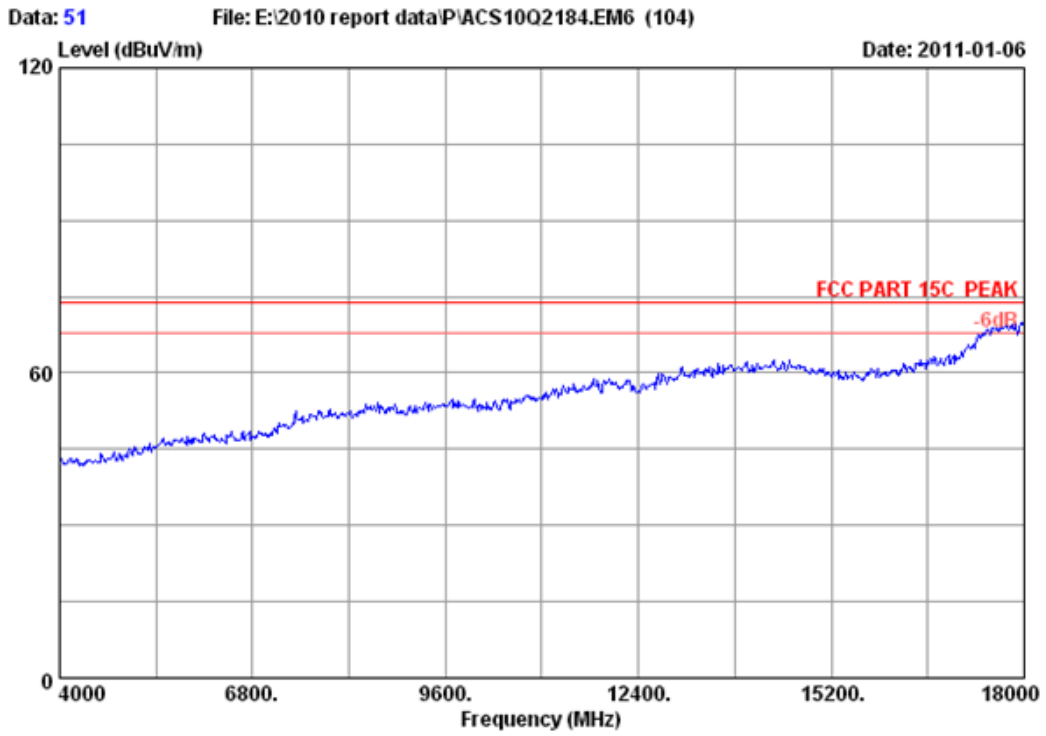


Site no. : 10m Chamber Data no. : 50
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps Wireless N Router
 Power : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : PW-RN501D

	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	1201.000	25.81	5.16	37.54	44.02	37.45	74.00	36.55	Peak
2	1600.000	26.96	5.91	36.94	52.91	48.84	74.00	25.16	Peak
3	1999.000	29.20	6.63	36.70	43.90	43.03	74.00	30.97	Peak
4	2462.000	29.48	7.54	36.61	108.89	109.30	74.00	-35.30	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. : 10m Chamber Data no. : 51
Dis. / Ant. : 3m 3115(O911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : 300Mbps Wireless N Router
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
M/N : PW-RN501D