



FCC ID:KA2IR524A1

AUDIX Technology (Shenzhen) Co., Ltd.

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

D-Link Corporation

Wireless N 150 Router

Model Number: DIR-524

FCC ID: KA2IR524A1

Prepared for : D-Link Corporation
17595 Mt. Hermann, Fountain Valley, CA92708

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Date of Test : Sep.11~15, 2010
Date of Report : Sep.19, 2010

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TEST REPORT CERTIFICATION

Applicant : D-Link Corporation
 Manufacturer : RISEN TECHNOLOGY (SZ) CO., LTD
 EUT Description : Wireless N 150 Router
 FCC ID : KA2IR524A1
 (A) MODEL NO. : DIR-524
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 5V
 (D) TEST VOLTAGE : DC 5V From Adapter Input AC 120V/60Hz

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 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 : Sep.11~15, 2010 Report of date: Sep.19,2010

Prepared by : Celia Feng / Celia Feng / Assistant
 Reviewer by : Jamy Yu / 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	: Wireless N 150 Router
Model Number	: DIR-524
FCC ID	: KA2IR524A1
Operation Frequency	: IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz
Channel Number	: IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7Channels
Modulation Technology	: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
Antenna and Gain	: Dipole Antenna, 2dBi Gain
Applicant	: D-Link Corporation 17595 Mt. Hermann, Fountain Valley, CA92708
Manufacturer	: RISEN TECHNOLOGY (SZ) CO., LTD BLOCK A, SHASI HI-TECH PARK, SHAJING TOWN, BAOAN DISTRICT, SHENZHEN, GUANDONG
Power Adapter	Manufacturer: D-Link M/N: AMS47-0501000FU Cable: Unshielded, Undetachable, 1.5m
Date of Test	: Sep.11~15, 2010
Date of Receipt	: Sep.08, 2010
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.

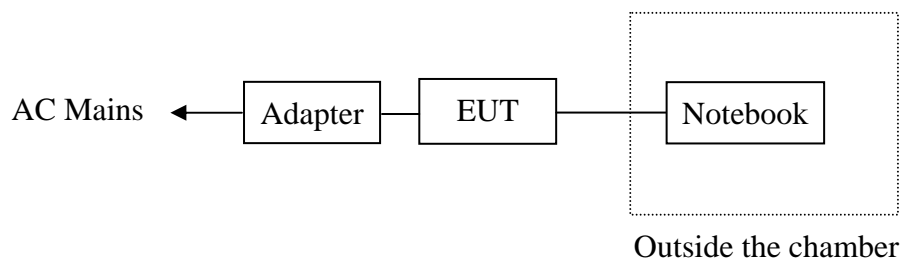
Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	11	Low :CH1	2412
	11	Middle: CH6	2437
	11	High: CH11	2462
IEEE 802.11g	54	Low :CH1	2412
	54	Middle: CH6	2437
	54	High: CH11	2462
IEEE 802.11n HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6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

Note: According exploratory test, EUT will have maximum 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	Notebook	-	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



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)

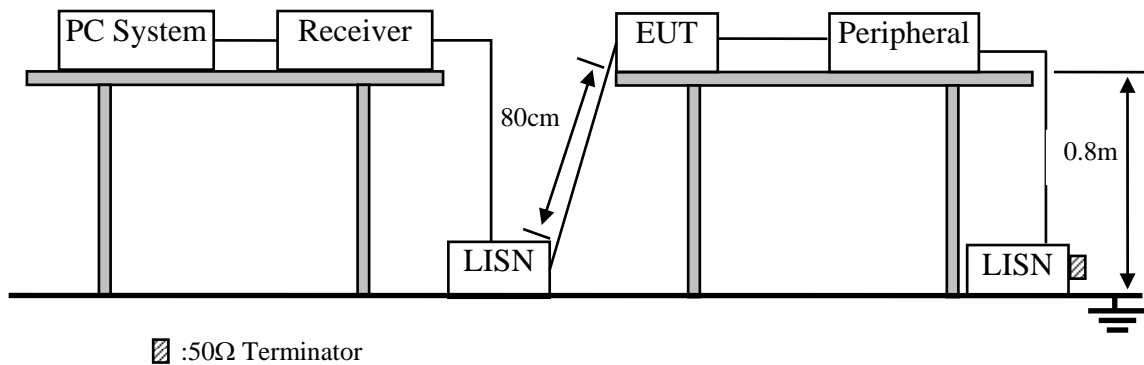
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.64 dB (9kHz to 150kHz)
	3.22 dB (150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	4.20 dB (Polarize: V)
	4.66 dB (Polarize: H)
Uncertainty for Radiated Spurious Emission test in RF chamber	2.70 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	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	Dec.18, 09	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.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 10	1 Year
5.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 10	1 Year
6.	Coaxial Switch	Anritsu	MP59B	M55367	May.08, 10	1 Year
7.	Passive Probe	Rohde & Schwarz	ESH2-Z3	299.7810.52	May.08, 10	1 Year
8.	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. Wireless N 150 Router (EUT)

Model Number : DIR-524
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

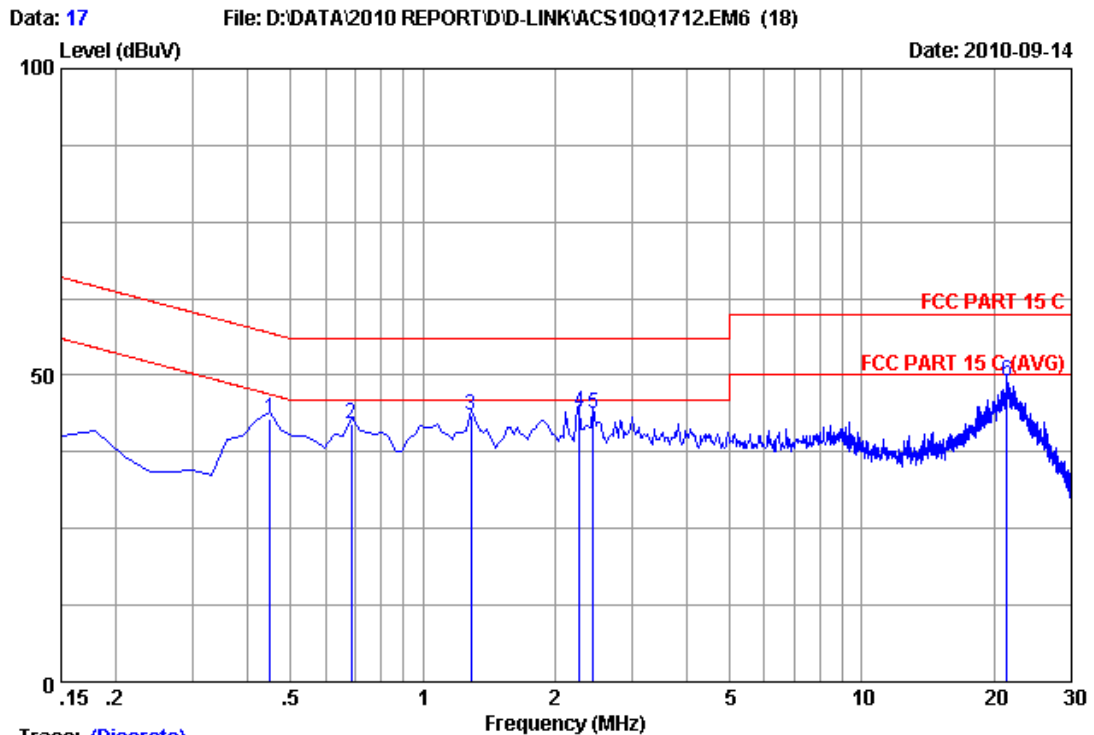
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via Notebook connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). 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 :17

Dis./Ant. **: 2010 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 C

Env./Ins. :29.5*C/55% Engineer :Sunny-lu

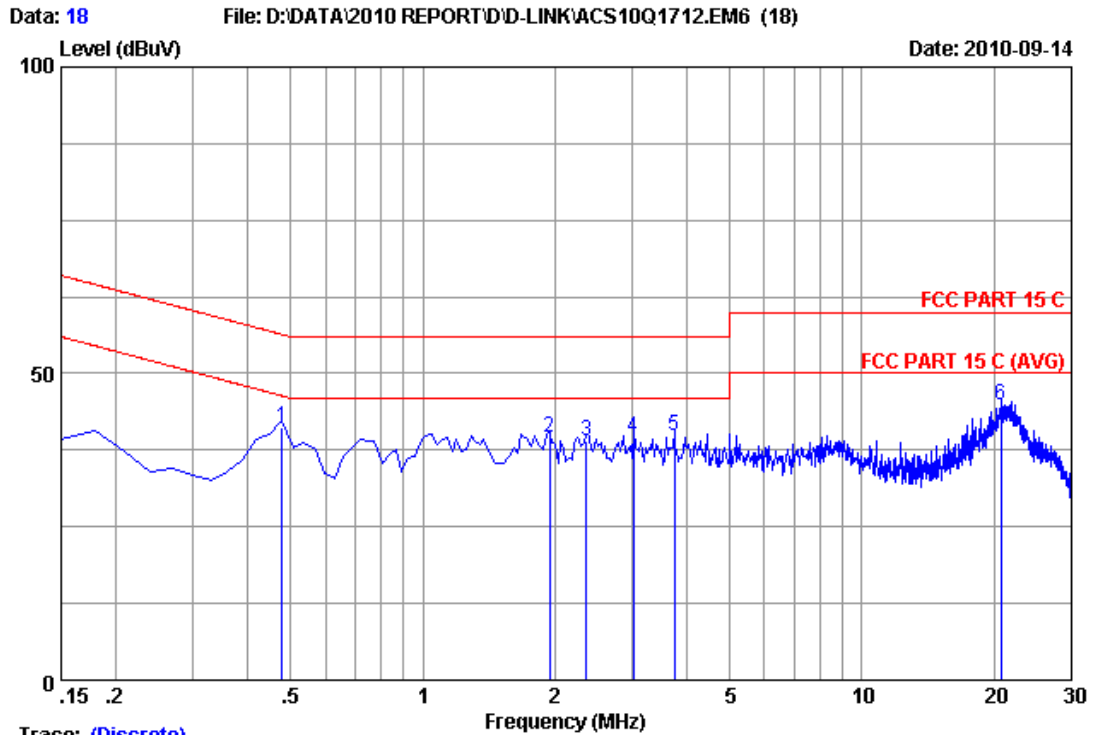
EUT :Wireless N 150 Router M/N:DIR-524

Power Rating :DC 5V From Adapter Input AC 120V/60Hz

Test Mode :Tx Mode

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.44850	0.22	9.88	32.87	42.97	56.90	13.93	QP
2	0.68730	0.24	9.89	32.02	42.15	56.00	13.85	QP
3	1.284	0.25	9.89	33.21	43.35	56.00	12.65	QP
4	2.269	0.26	9.92	33.86	44.04	56.00	11.96	QP
5	2.448	0.26	9.92	33.57	43.75	56.00	12.25	QP
6	21.373	0.85	10.09	38.04	48.98	60.00	11.02	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 :18
 Dis./Ant. **: 2010 ESH2-Z5 LINE
 Limit :FCC PART 15 C
 Env./Ins. :29.5*C/55% Engineer :Sunny-lu
 EUT :Wireless N 150 Router M/N:DIR-524
 Power Rating :DC 5V From Adapter Input AC 120V/60Hz
 Test Mode :Tx Mode
 :

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.47835	0.24	9.88	31.17	41.29	56.37	15.08	QP
2	1.941	0.25	9.90	29.29	39.44	56.00	16.56	QP
3	2.359	0.25	9.92	28.96	39.13	56.00	16.87	QP
4	3.016	0.26	9.93	29.48	39.67	56.00	16.33	QP
5	3.732	0.27	9.94	29.56	39.77	56.00	16.23	QP
6	20.717	0.56	10.08	34.26	44.90	60.00	15.10	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

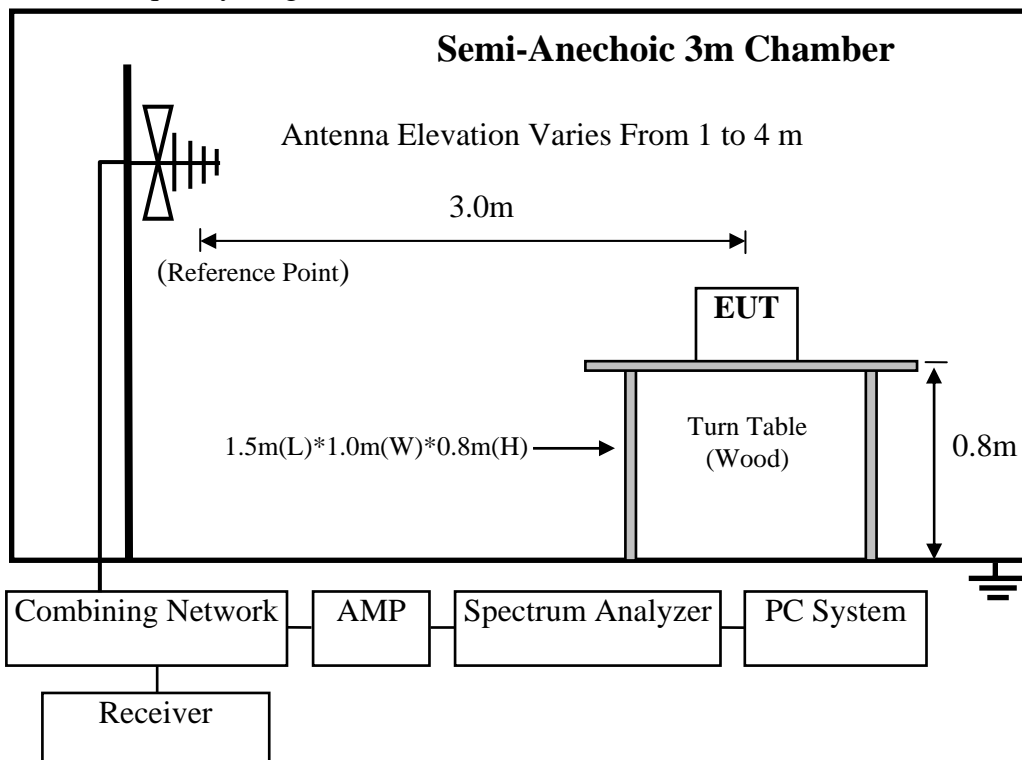
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.05,09	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 10	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 10	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 10	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Dec.14, 09	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

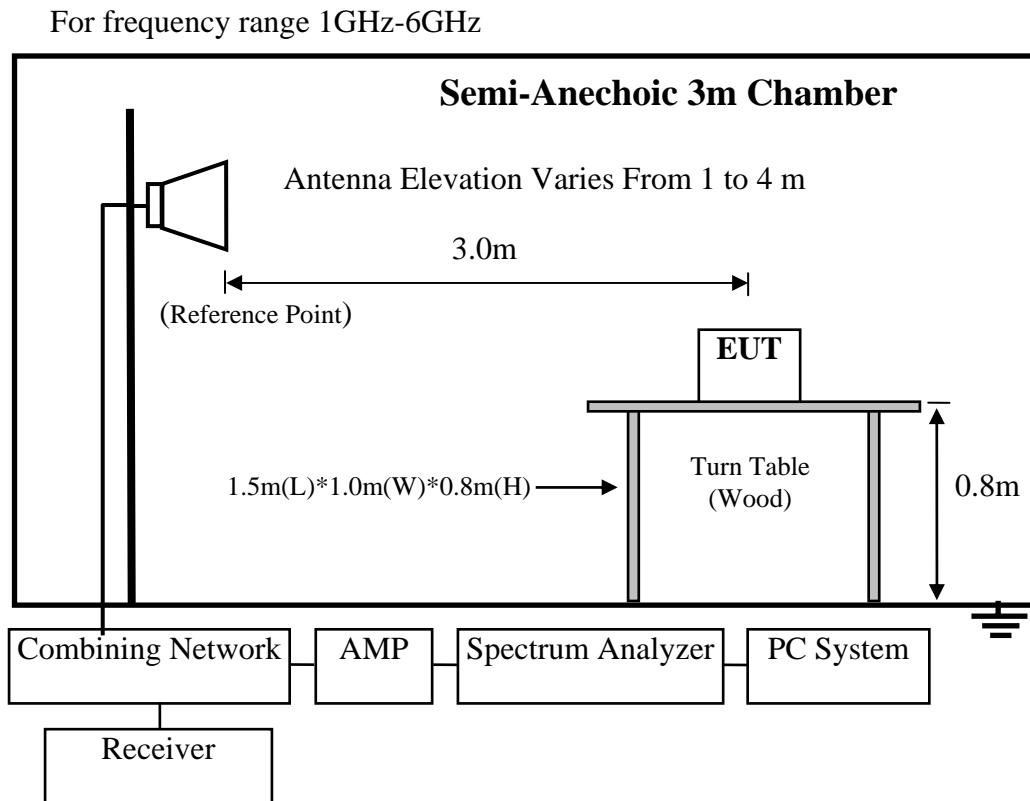
Frequency rang: above 1000MHz

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

4.4.1. Wireless N 150 Router (EUT)

Model Number : DIR-524
 Serial Number : N/A

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

4.5.Operating Condition of EUT

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

4.5.2. Turned on the power of all equipment.

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

4.6.Test Procedure

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

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

The bandwidth of the Spectrum's VBW is set at 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.

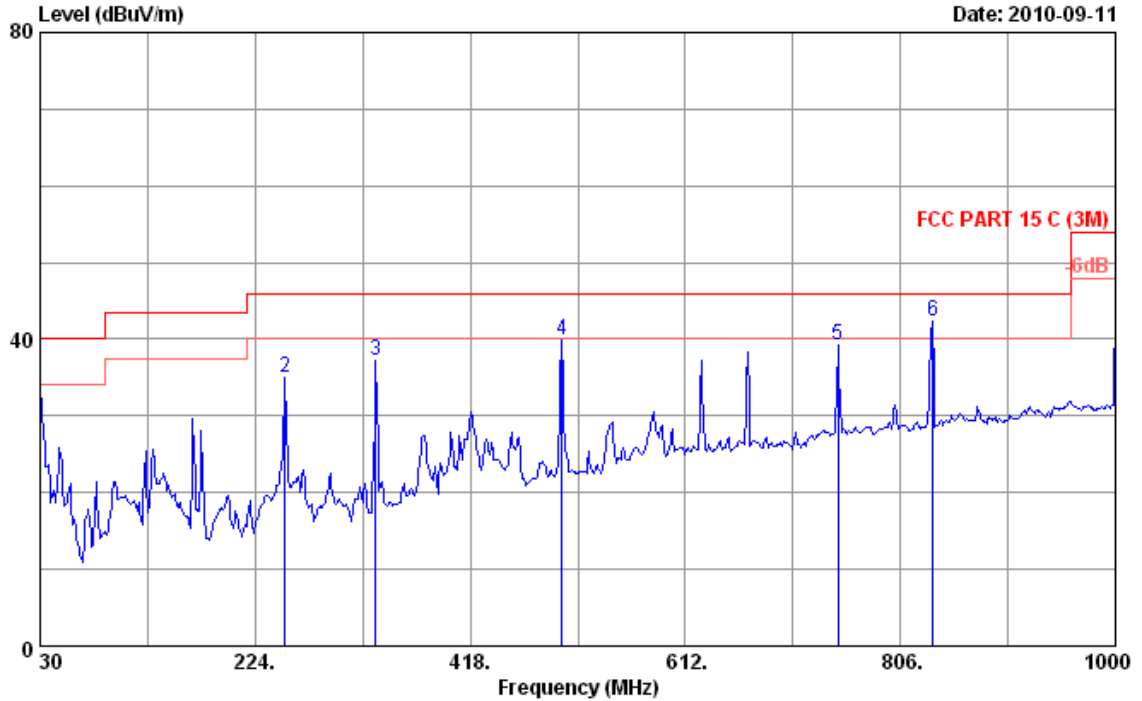
Note: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

Frequency: 30MHz~1GHz

Data: 1

File: E:\2010 Report Data\ACS10Q1678.EM6 (2)

Date: 2010-09-11

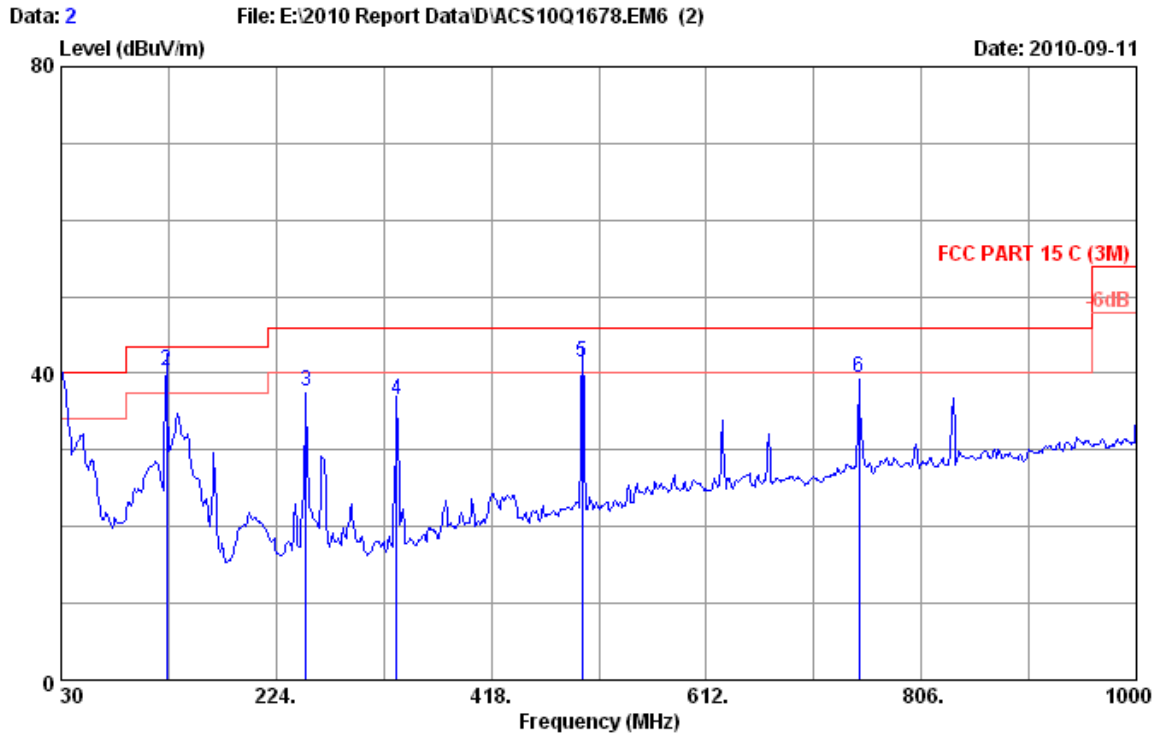


```

Site no.      : 3m Chamber                Data no.   : 1
Dis. / Ant.   : 3m  2010 CBL6111C        Ant. pol.  : HORIZONTAL
Limit         : FCC PART 15 C (3M)
Env. / Ins.   : 24°C/56%                 Engineer   : Sunny-lu
EUT           : Wireless N 150 Router M/N:DIR-524
Power rating  : DC 5V 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	30.000	20.00	0.61	12.62	33.23	40.00	6.77	QP
2	251.160	12.90	2.18	19.97	35.05	46.00	10.95	QP
3	332.640	14.51	2.62	20.02	37.15	46.00	8.85	QP
4	500.450	18.30	3.55	17.94	39.79	46.00	6.21	QP
5	749.740	22.00	4.70	12.61	39.31	46.00	6.69	QP
6	835.100	22.30	5.00	15.10	42.40	46.00	3.60	QP

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



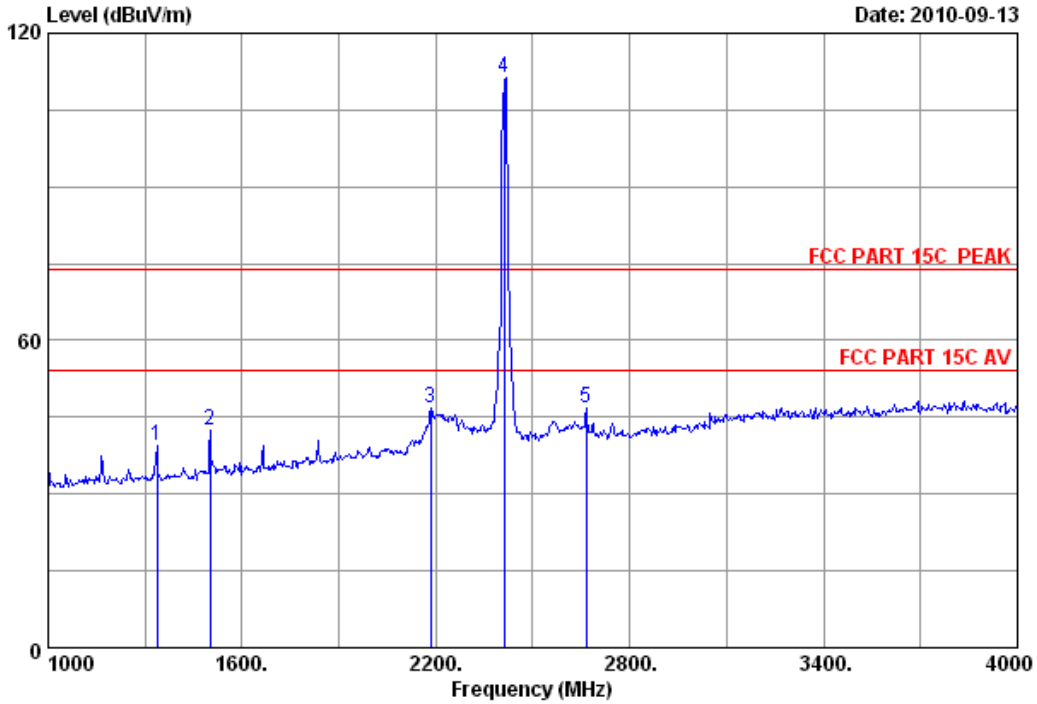
Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Sunny-lu
 EUT : Wireless N 150 Router M/N:DIR-524
 Power rating : DC 5V From Adapter Input AC 120V/60Hz
 Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.430	20.00	0.61	16.20	36.81	40.00	3.19	QP
2	124.960	12.10	1.13	27.20	40.43	43.50	3.07	QP
3	251.160	12.90	2.18	22.69	37.77	46.00	8.23	QP
4	332.640	14.51	2.62	19.38	36.51	46.00	9.49	QP
5	499.978	18.30	3.55	19.50	41.35	46.00	4.65	QP
6	749.740	22.00	4.70	12.68	39.38	46.00	6.62	QP

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

Frequency: 1GHz~18GHz

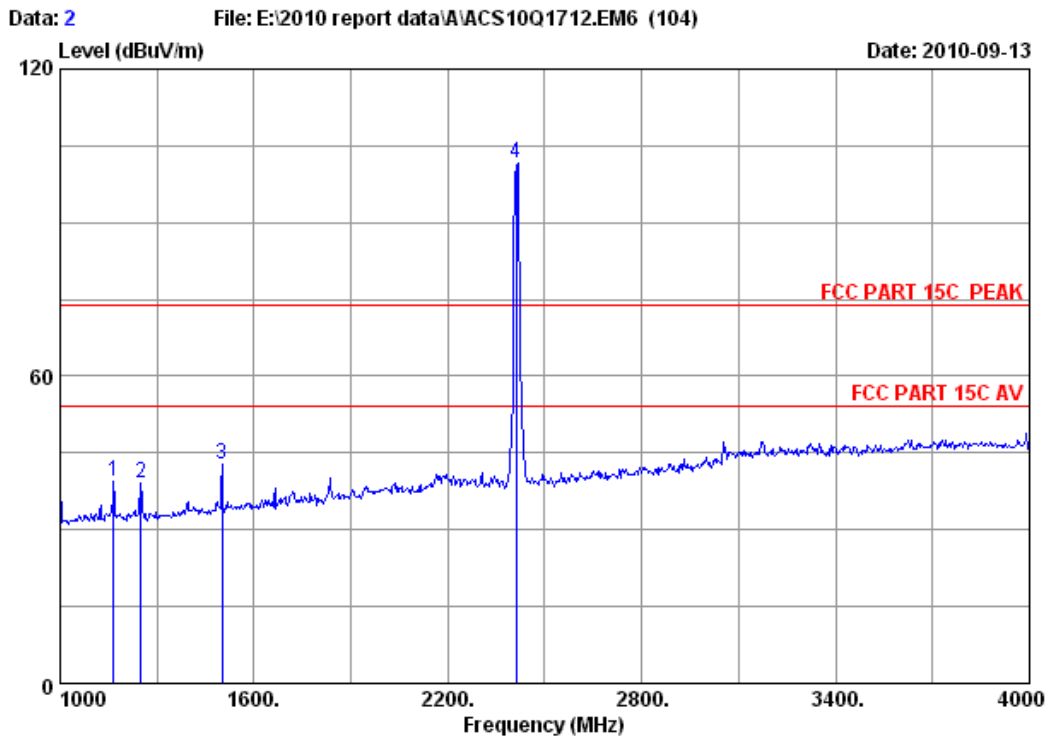
Data: 1 File: E:\2010 report data\AIACS10Q1712.EM6 (104) Date: 2010-09-13



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 : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : DIR-524

	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	1336.000	26.09	5.38	37.32	45.31	39.46	74.00	34.54	Peak
2	1501.000	26.40	5.73	37.00	47.43	42.56	74.00	31.44	Peak
3	2185.000	29.31	7.01	36.67	47.04	46.69	74.00	27.31	Peak
4	2412.000	29.45	7.43	36.62	111.05	111.31	74.00	-37.31	Peak
5	2665.000	30.33	7.92	36.57	45.28	46.96	74.00	27.04	Peak

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



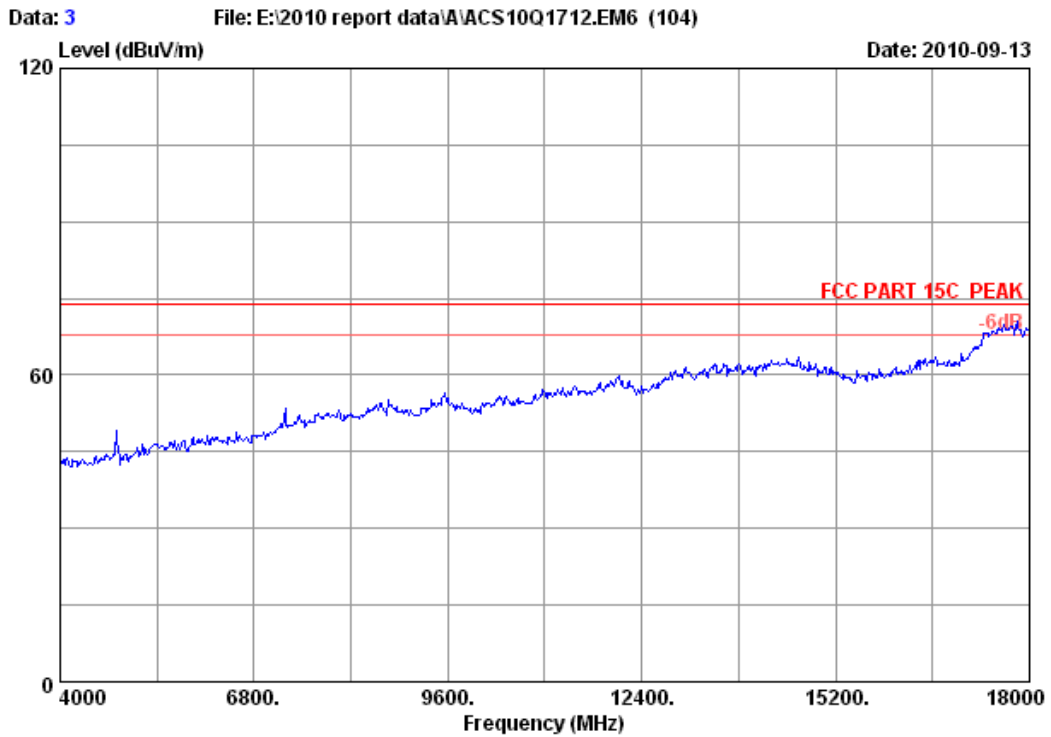
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Site no.      : 3m Chamber                Data no.   : 2
Dis. / Ant.  : 3m 3115(0911)            Ant. pol.  : HORIZONTAL
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23*C/54%                  Engineer   : Sunny-lu
EUT          : Wireless N 150 Router
Power        : DC 5V From Adapter input AC 120V/60Hz
Test mode    : IEEE802.11b CH1 2412MHz Tx
M/N          : DIR-524
    
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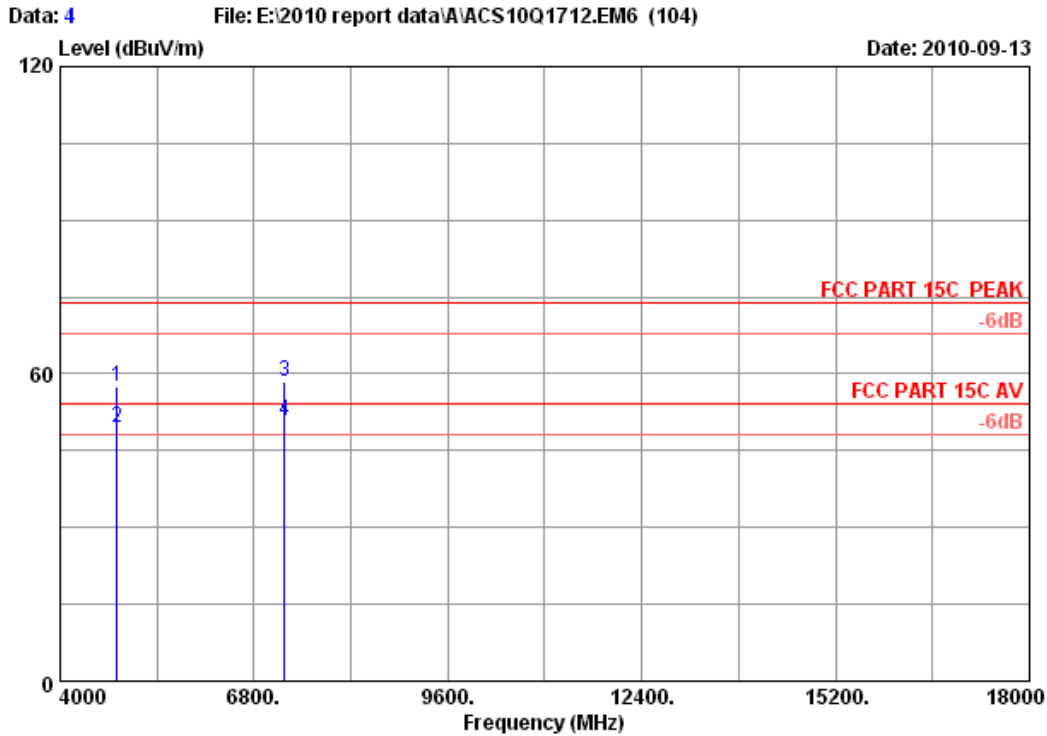
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1165.000	25.74	5.08	37.63	46.22	39.41	74.00	34.59	Peak
2	1249.000	25.92	5.23	37.45	45.56	39.26	74.00	34.74	Peak
3	1501.000	26.40	5.73	37.00	47.64	42.77	74.00	31.23	Peak
4	2412.000	29.45	7.43	36.62	101.50	101.76	74.00	-27.76	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.	: 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	: Wireless N 150 Router		
Power	: DC 5V From Adapter input AC 120V/60Hz		
Test mode	: IEEE802.11b CH1 2412MHz Tx		
M/N	: DIR-524		

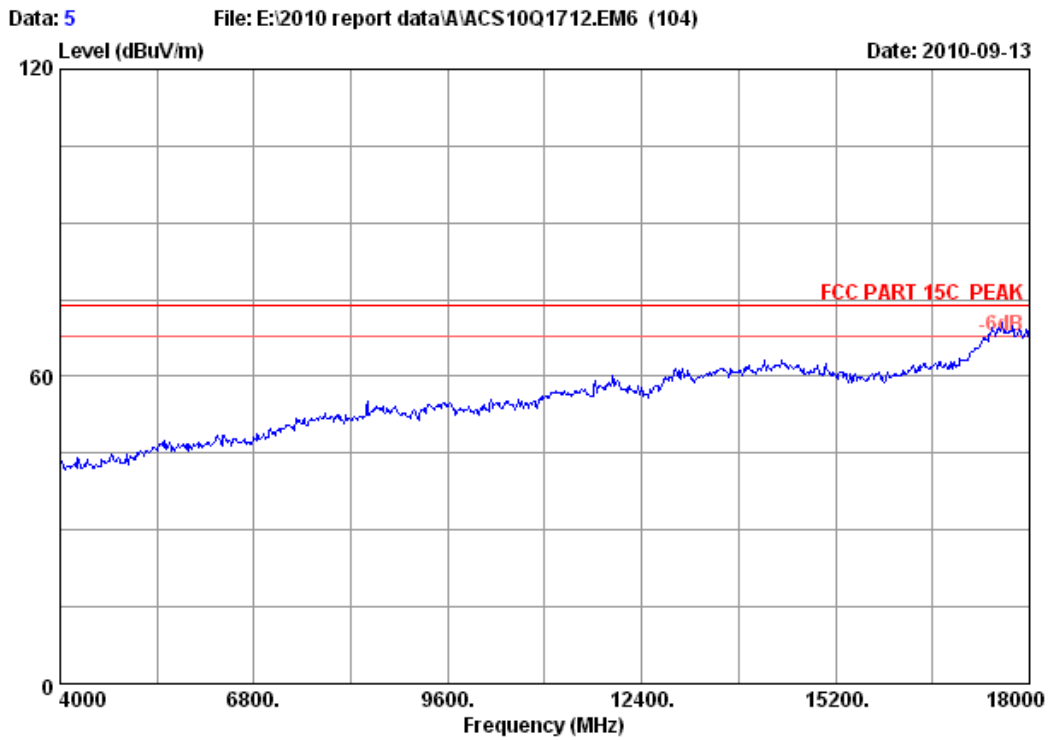


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : DIR-524

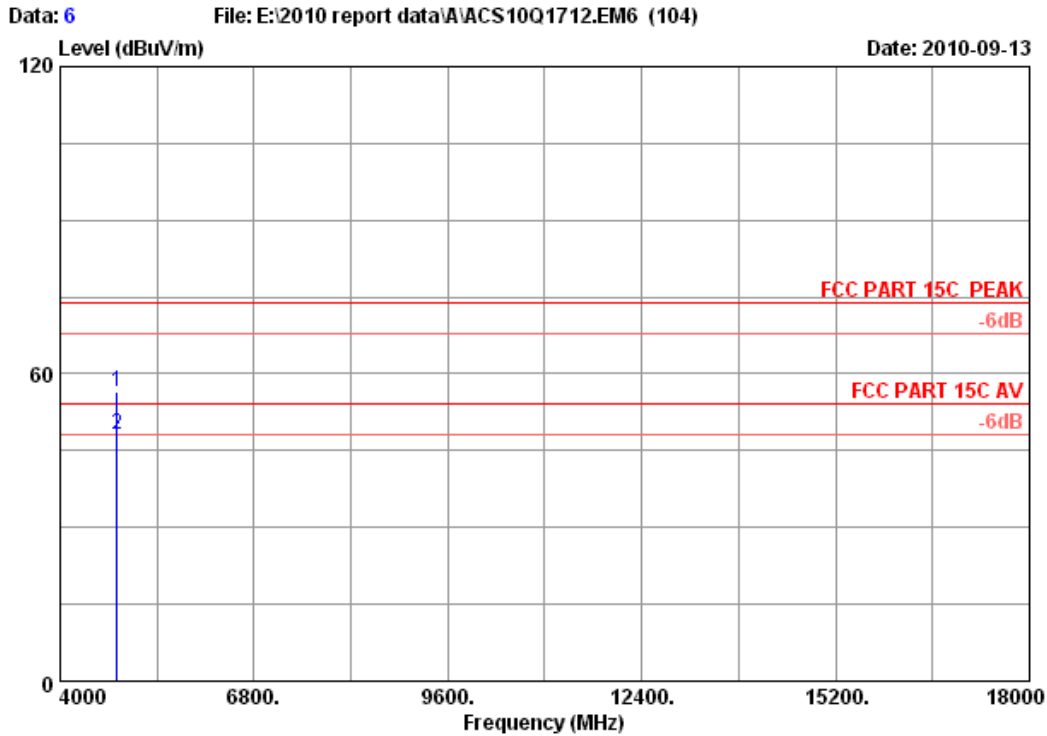
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	4824.000	34.32	10.64	35.08	47.64	57.52	74.00	16.48	Peak
2	4824.000	34.32	10.64	35.08	39.70	49.58	54.00	4.42	Average
3	7236.000	36.90	13.33	33.95	42.28	58.56	74.00	15.44	Peak
4	7236.000	36.90	13.33	33.95	34.41	50.69	54.00	3.31	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.



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 : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : DIR-524

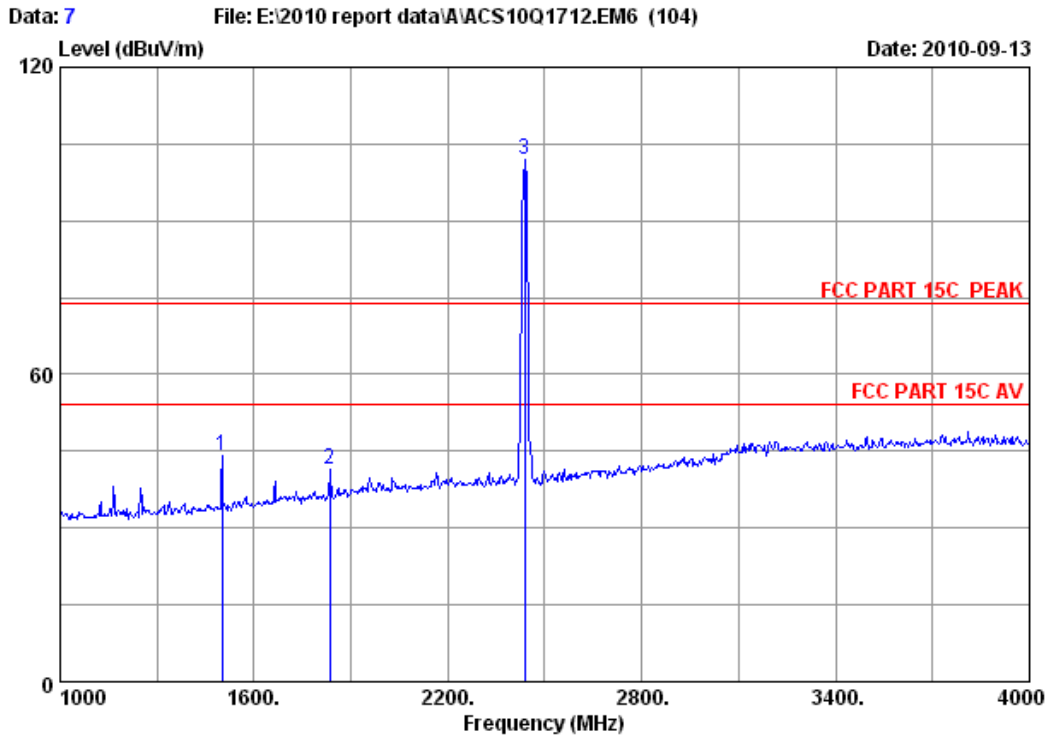


Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : DIR-524

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.000	34.32	10.64	35.08	46.70	56.58	74.00	17.42	Peak
2	4824.000	34.32	10.64	35.08	38.30	48.18	54.00	5.82	Average

Remarks:

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



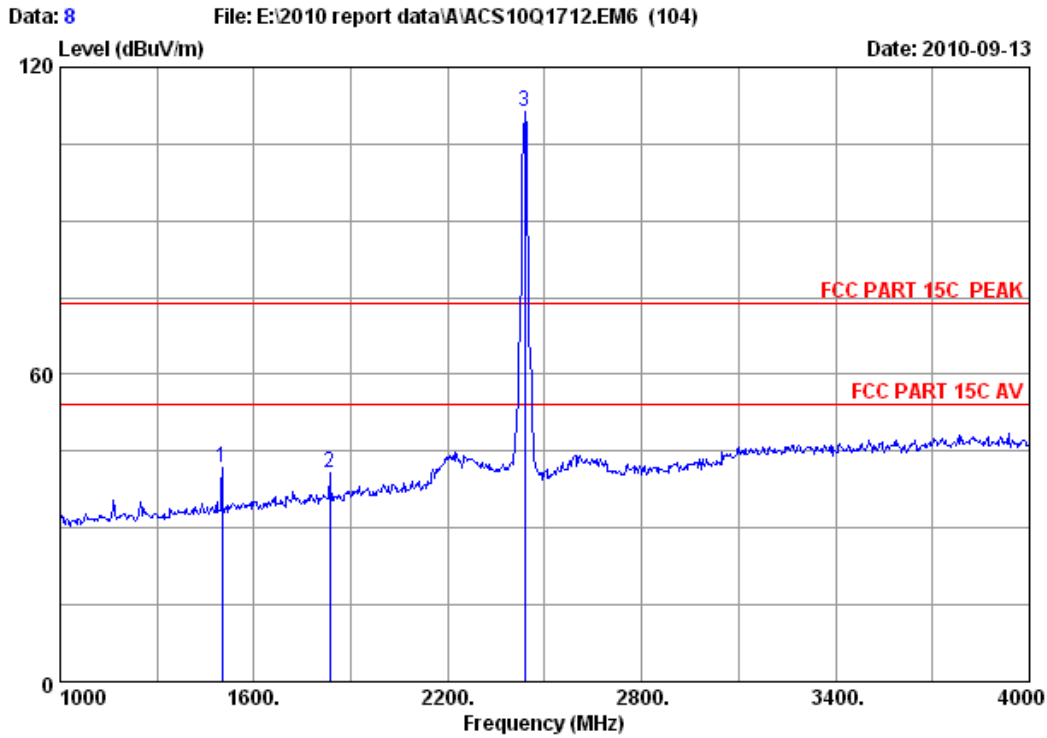
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Site no.      : 3m Chamber           Data no.   : 7
Dis. / Ant.  : 3m 3115(0911)        Ant. pol.  : HORIZONTAL
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23*C/54%             Engineer   : Sunny-lu
EUT          : Wireless N 150 Router
Power        : DC 5V From Adapter input AC 120V/60Hz
Test mode    : IEEE802.11b CH6 2437MHz Tx
M/N         : DIR-524
    
```

	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	1501.000	26.40	5.73	37.00	48.96	44.09	74.00	29.91	Peak
2	1834.000	28.27	6.33	36.79	43.53	41.34	74.00	32.66	Peak
3	2437.000	29.47	7.46	36.61	101.47	101.79	74.00	-27.79	Peak

Remarks:

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



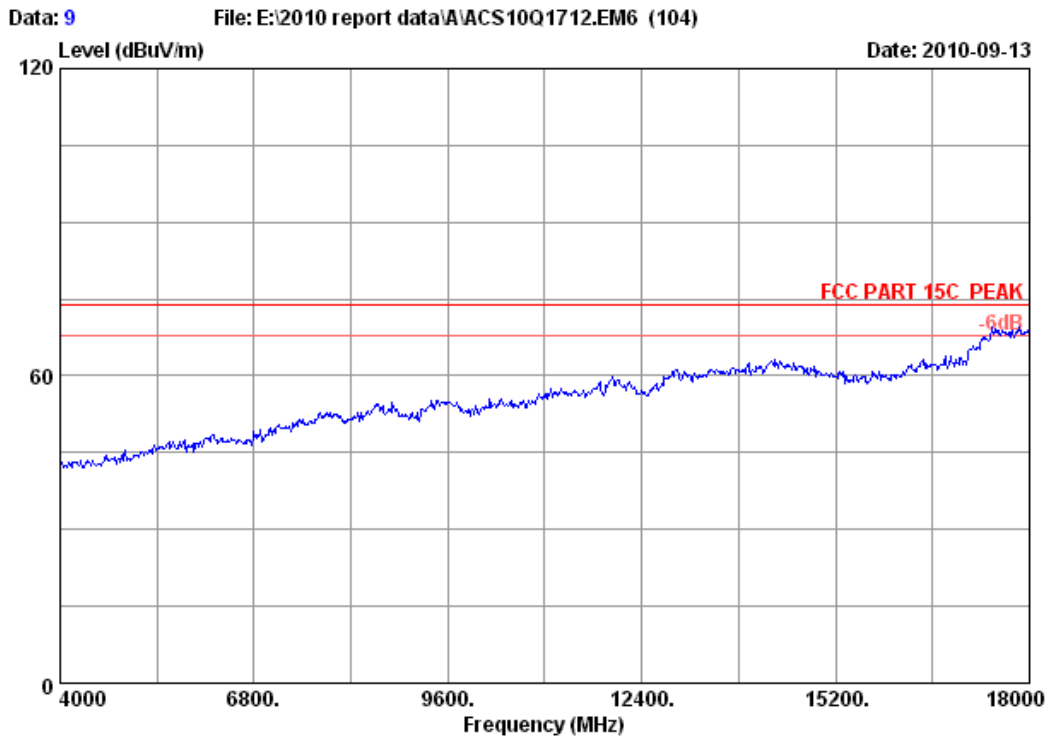
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Site no.      : 3m Chamber
Dis. / Ant.  : 3m 3115(0911)
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23*C/54%
EUT          : Wireless N 150 Router
Power        : DC 5V From Adapter input AC 120V/60Hz
Test mode    : IEEE802.11b CH6 2437MHz Tx
M/N         : DIR-524
Data no.     : 8
Ant. pol.    : VERTICAL
Engineer     : Sunny-lu
    
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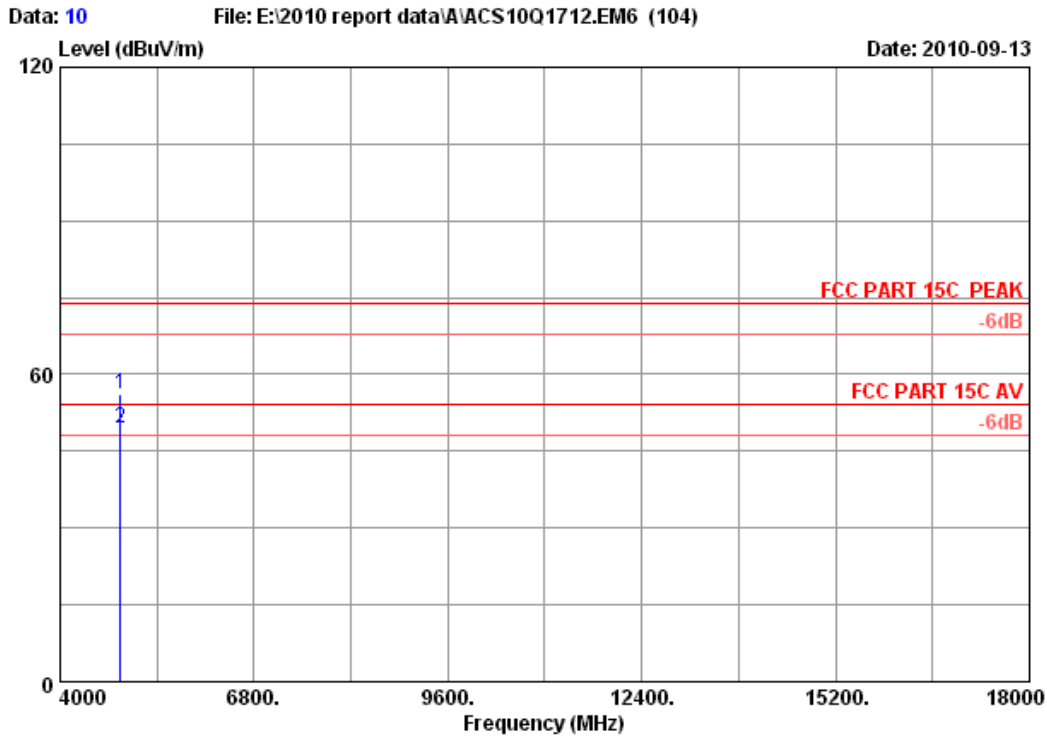
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1501.000	26.40	5.73	37.00	46.71	41.84	74.00	32.16	Peak
2	1834.000	28.27	6.33	36.79	43.14	40.95	74.00	33.05	Peak
3	2437.000	29.47	7.46	36.61	110.88	111.20	74.00	-37.20	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. : 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 : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : DIR-524

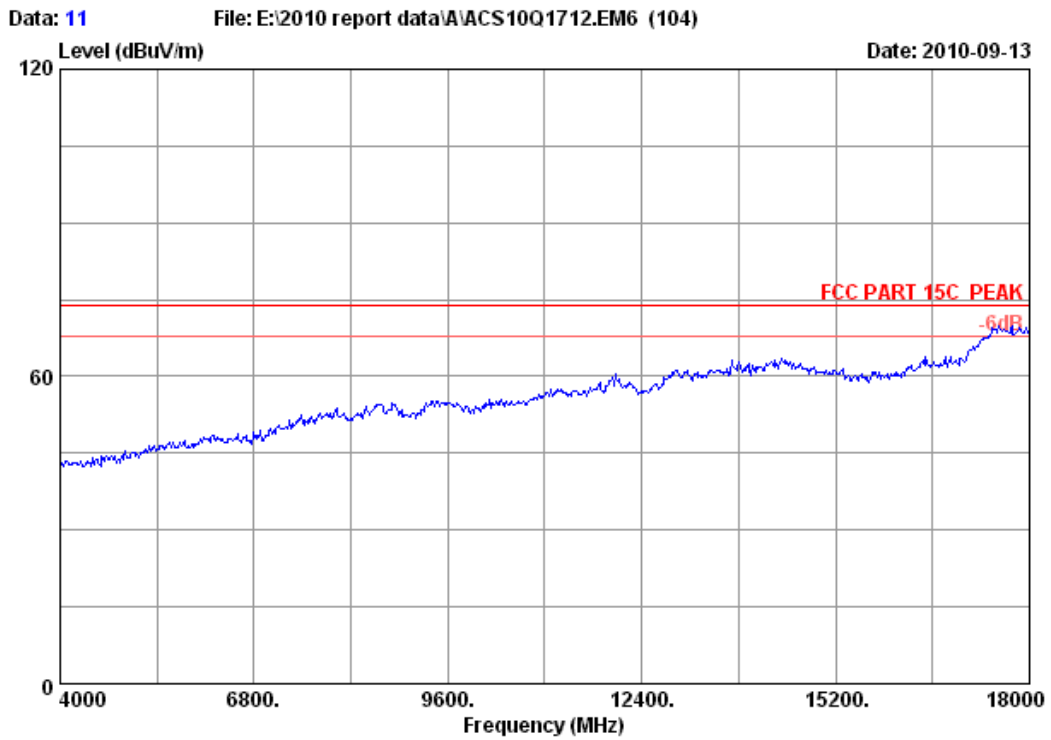


Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : DIR-524

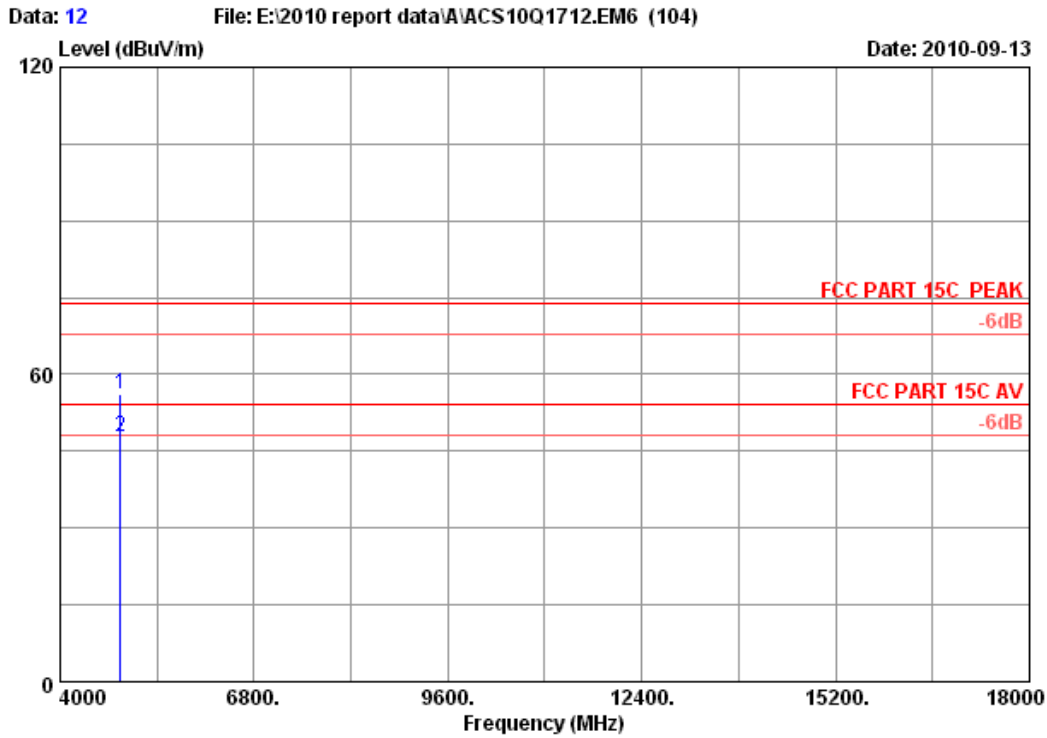
	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.000	34.41	10.69	35.03	46.08	56.15	74.00	17.85	Peak
2	4874.000	34.41	10.69	35.03	39.45	49.52	54.00	4.48	Average

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.	: 11
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: Wireless N 150 Router		
Power	: DC 5V From Adapter input	AC	120V/60Hz
Test mode	: IEEE802.11b CH6 2437MHz	Tx	
M/N	: DIR-524		

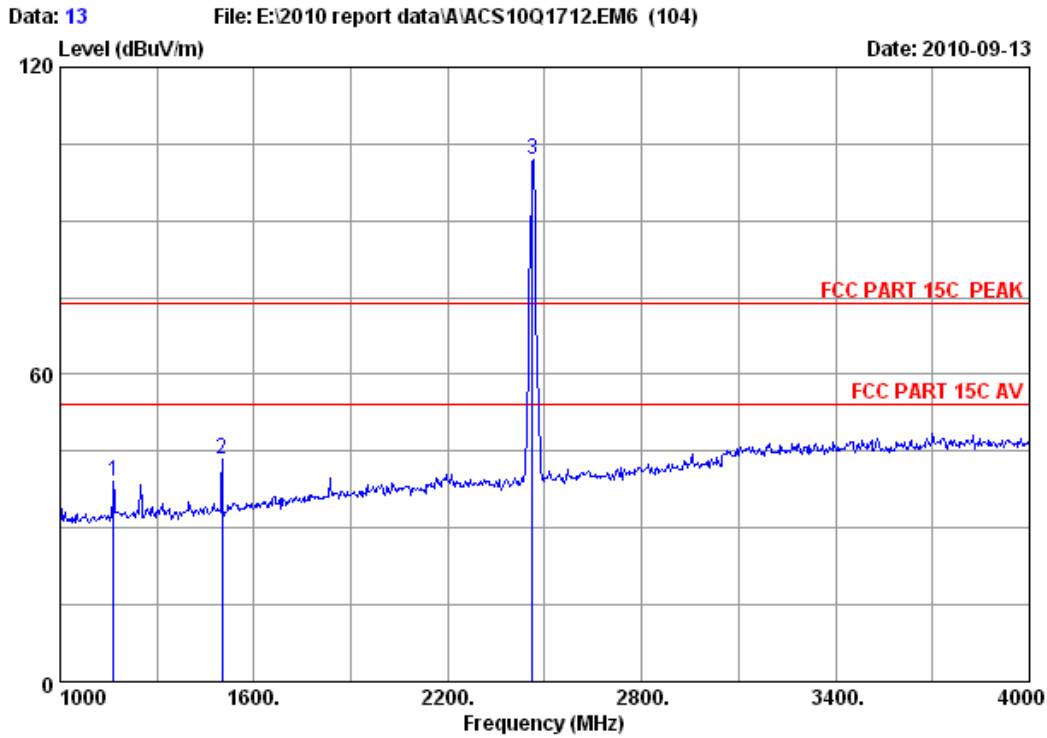


Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : DIR-524

	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	4874.000	34.41	10.69	35.03	45.96	56.03	74.00	17.97	Peak
2	4874.000	34.41	10.69	35.03	37.87	47.94	54.00	6.06	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.



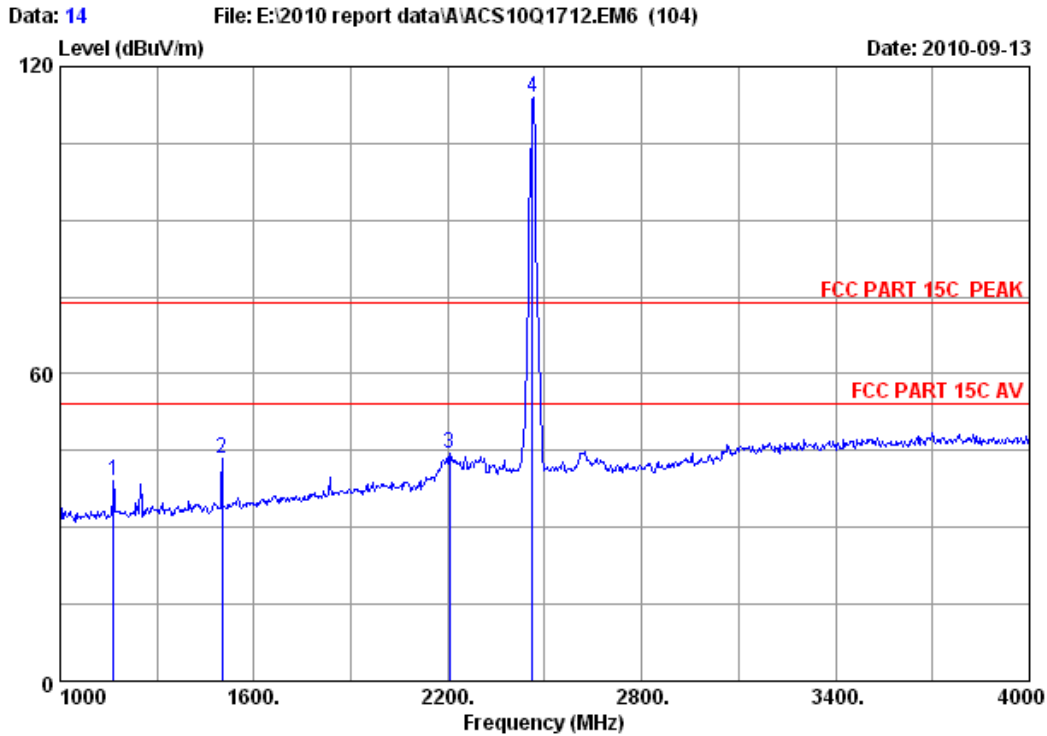
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Site no.      : 3m Chamber
Dis. / Ant.  : 3m 3115(0911)
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23*C/54%
EUT          : Wireless N 150 Router
Power        : DC 5V From Adapter input AC 120V/60Hz
Test mode    : IEEE802.11b CH11 2462MHz Tx
M/N         : DIR-524
Data no.     : 13
Ant. pol.    : HORIZONTAL
Engineer     : Sunny-lu
    
```

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	1165.000	25.74	5.08	37.63	45.98	39.17	74.00 34.83	Peak	
2	1501.000	26.40	5.73	37.00	48.28	43.41	74.00 30.59	Peak	
3	2462.000	29.48	7.54	36.61	101.39	101.80	74.00 -27.80	Peak	

Remarks:

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

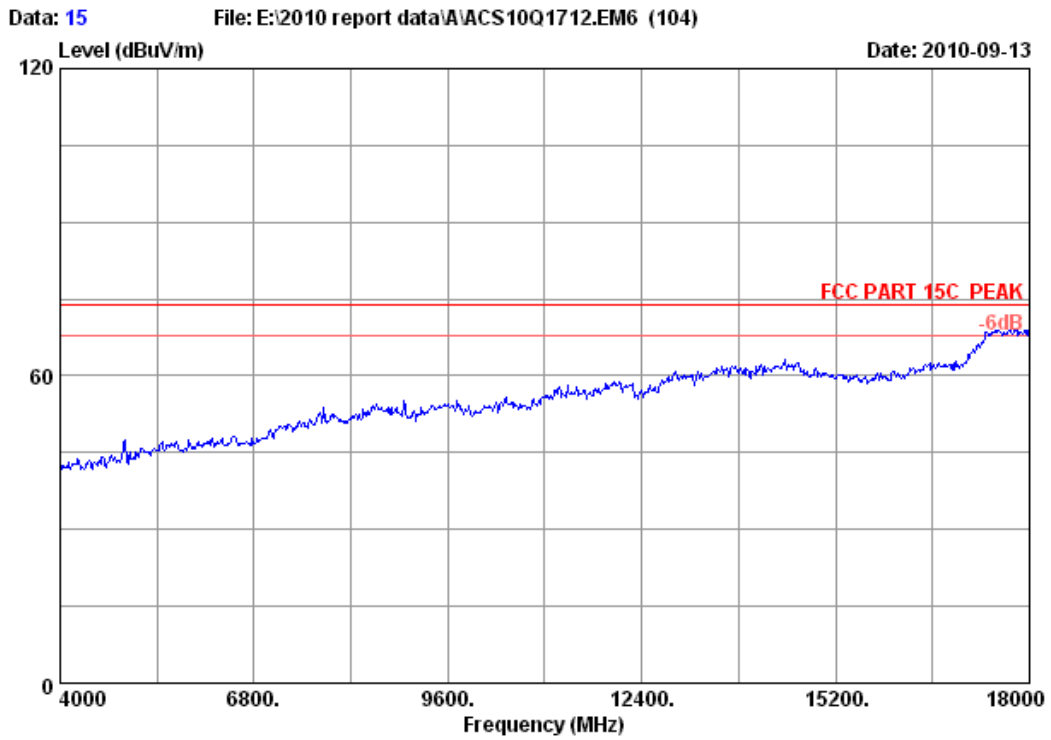


Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : DIR-524

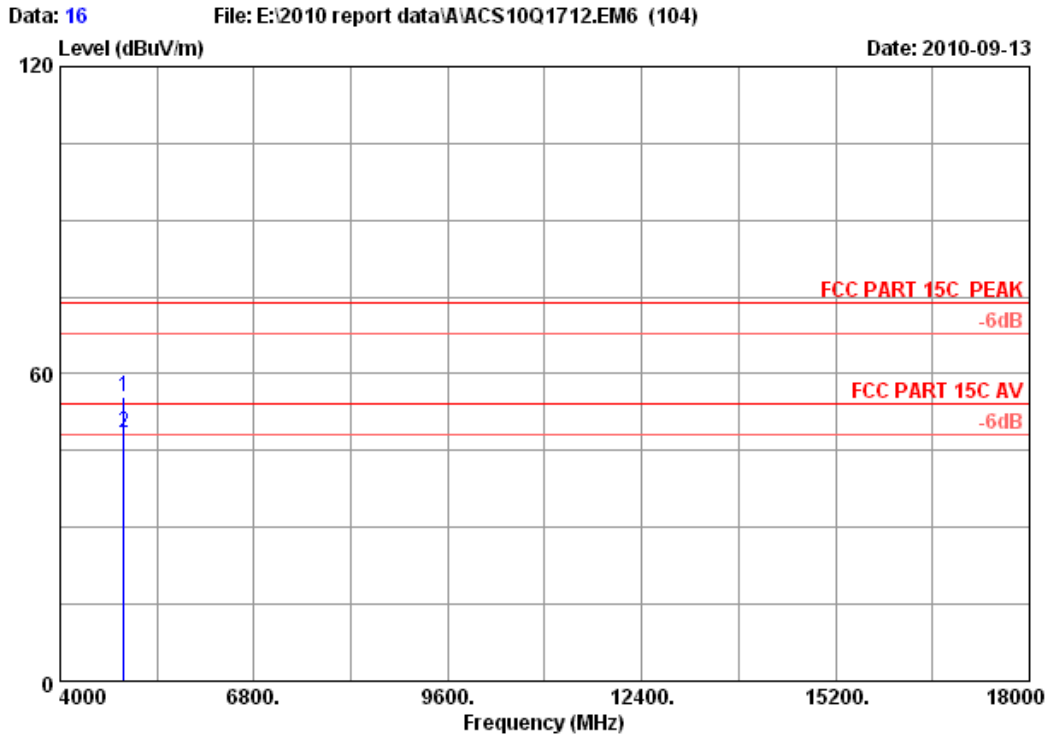
	Ant.	Cable	Amp.	Emission		Limits	Margin	Remark	
Freq.	Factor	loss	Factor	Reading	Level	Margin	(dB)		
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)			
1	1165.000	25.74	5.08	37.63	45.98	39.17	74.00	34.83	Peak
2	1501.000	26.40	5.73	37.00	48.28	43.41	74.00	30.59	Peak
3	2206.000	29.32	7.05	36.66	44.86	44.57	74.00	29.43	Peak
4	2462.000	29.48	7.54	36.61	113.71	114.12	74.00	-40.12	Peak

Remarks:

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



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 : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : DIR-524

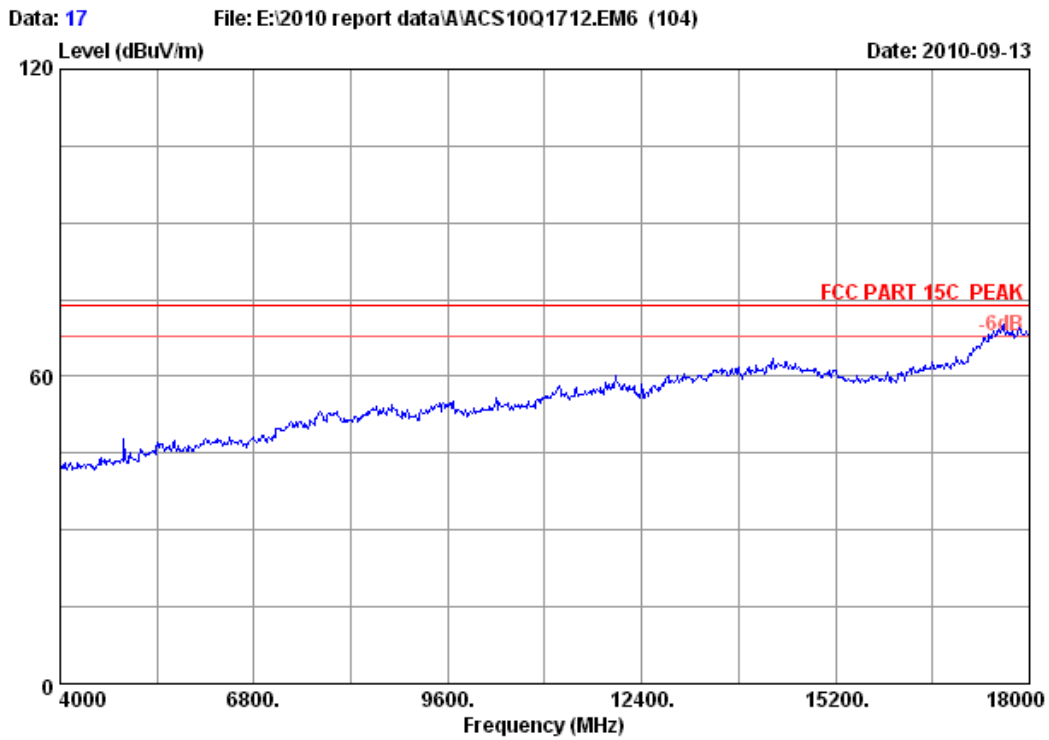


Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : DIR-524

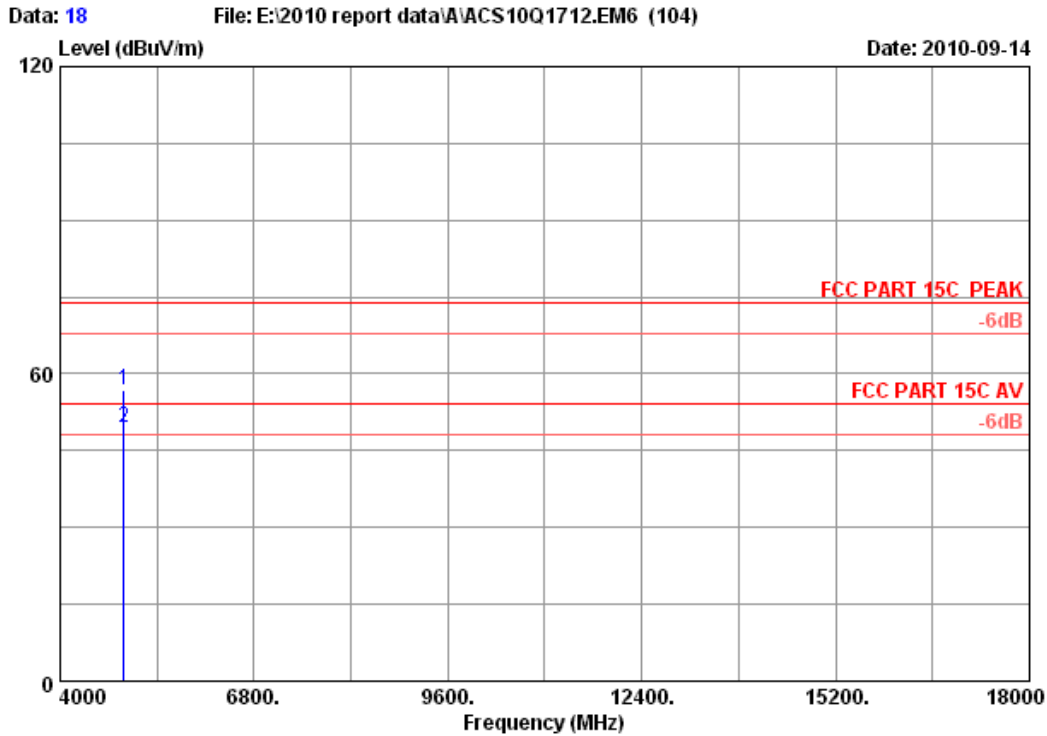
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	34.49	10.76	34.98	45.06	55.33	74.00	18.67	Peak
2	4924.000	34.49	10.76	34.98	38.12	48.39	54.00	5.61	Average

Remarks:

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



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 : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : DIR-524

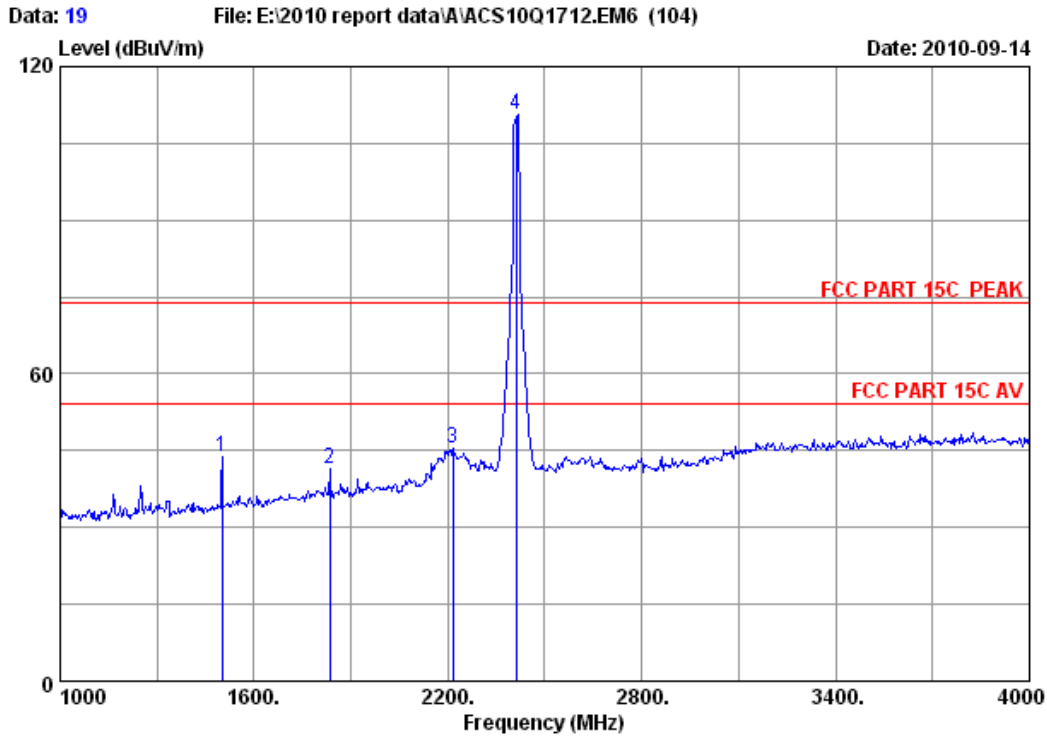


Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : DIR-524

	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	4924.000	34.49	10.76	34.98	46.39	56.66	74.00	17.34	Peak
2	4924.000	34.49	10.76	34.98	39.27	49.54	54.00	4.46	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.

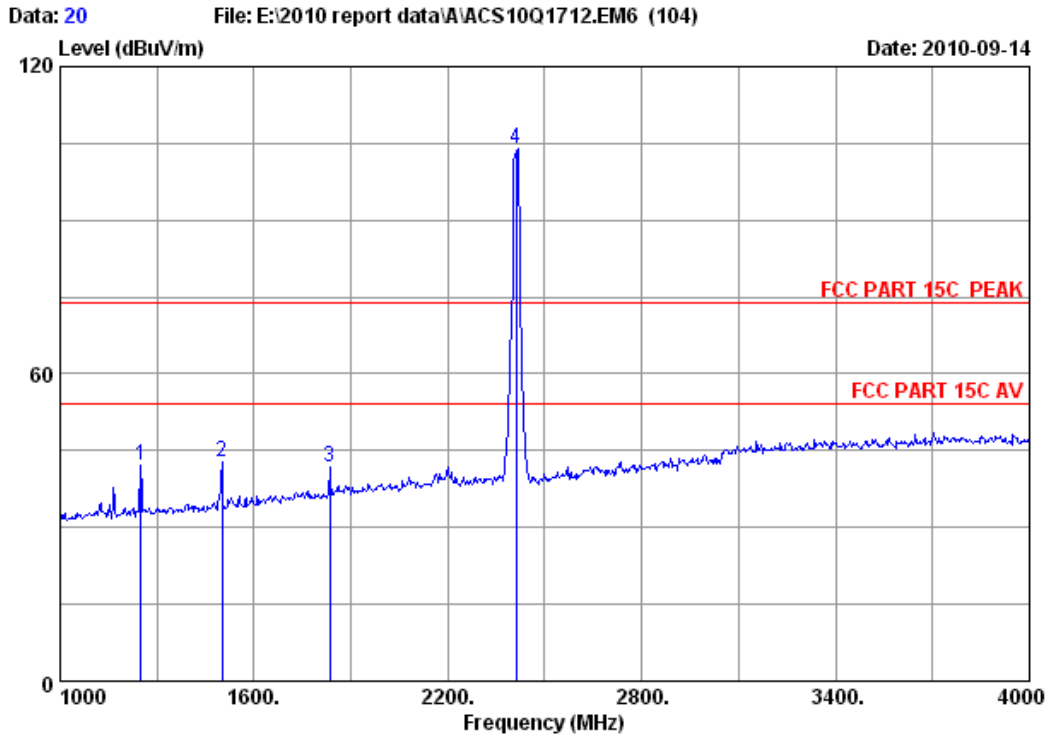


Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : DIR-524

	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	1501.000	26.40	5.73	37.00	48.76	43.89	74.00	30.11	Peak
2	1834.000	28.27	6.33	36.79	43.56	41.37	74.00	32.63	Peak
3	2215.000	29.32	7.05	36.65	45.69	45.41	74.00	28.59	Peak
4	2412.000	29.45	7.43	36.62	110.37	110.63	74.00	-36.63	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.

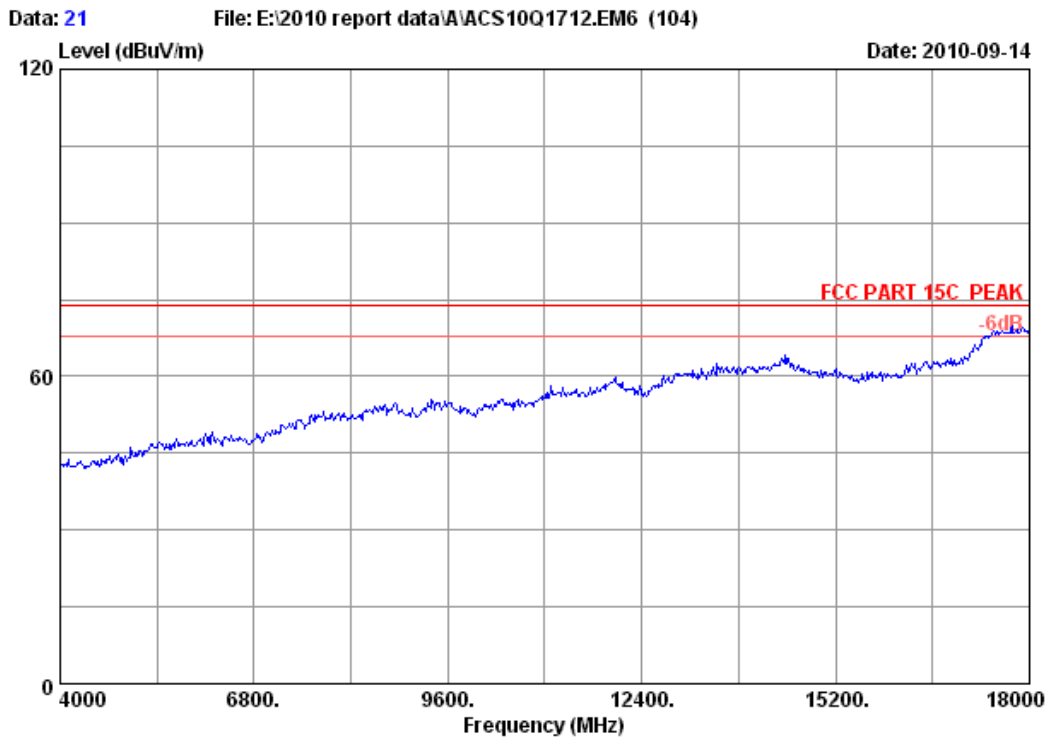


Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : DIR-524

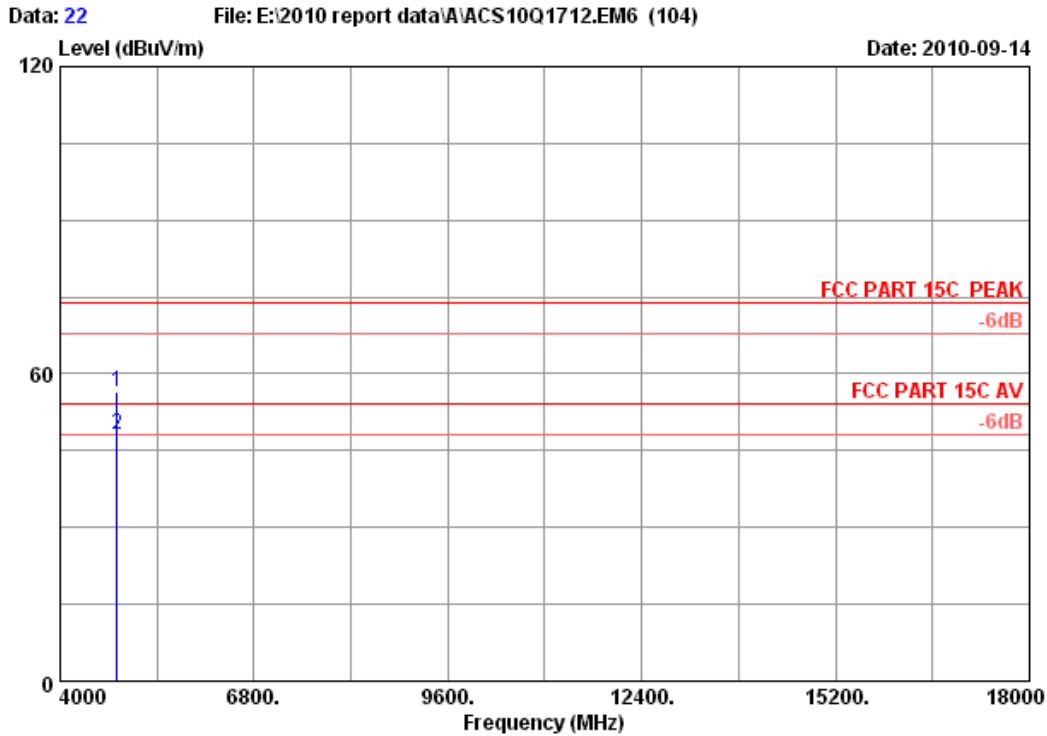
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	1249.000	25.92	5.23	37.45	48.34	42.04	74.00	31.96	Peak
2	1501.000	26.40	5.73	37.00	47.50	42.63	74.00	31.37	Peak
3	1834.000	28.27	6.33	36.79	43.82	41.63	74.00	32.37	Peak
4	2412.000	29.45	7.43	36.62	103.71	103.97	74.00	-29.97	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.	: 21
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: Wireless N 150 Router		
Power	: DC 5V From Adapter input AC 120V/60Hz		
Test mode	: IEEE802.11g CH1 2412MHz Tx		
M/N	: DIR-524		

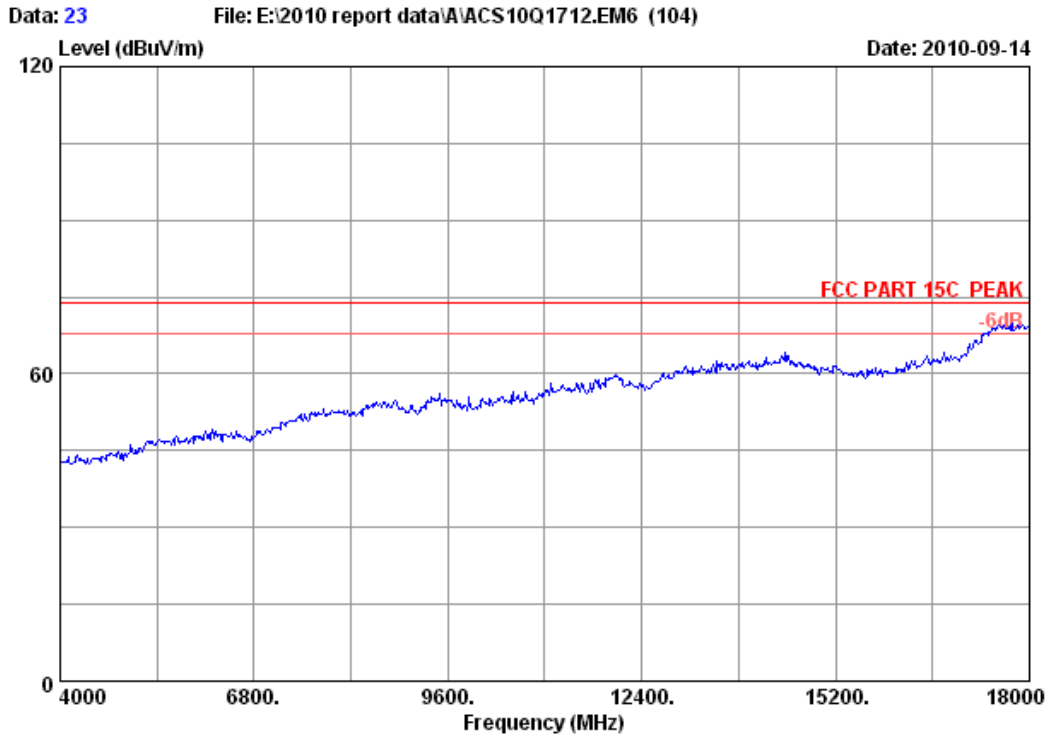


Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : DIR-524

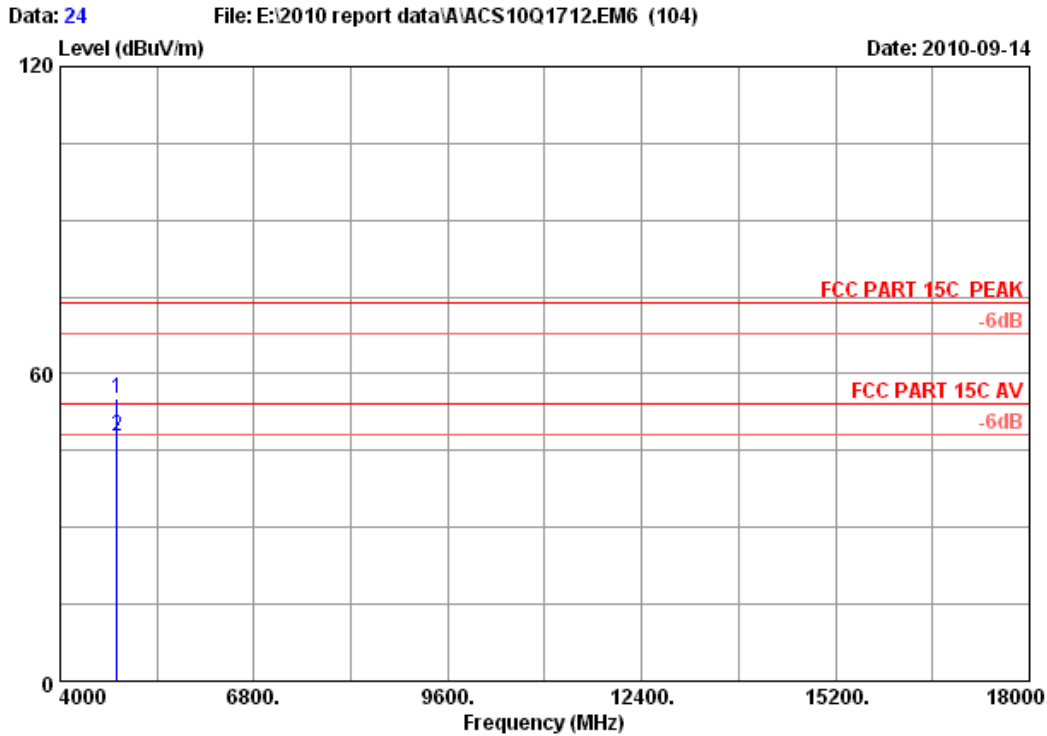
	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.000	34.32	10.64	35.08	46.49	56.37	74.00	17.63	Peak
2	4824.000	34.32	10.64	35.08	38.19	48.07	54.00	5.93	Average

Remarks:

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



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	: Wireless N 150 Router		
Power	: DC 5V From Adapter input AC 120V/60Hz		
Test mode	: IEEE802.11g CH1 2412MHz Tx		
M/N	: DIR-524		

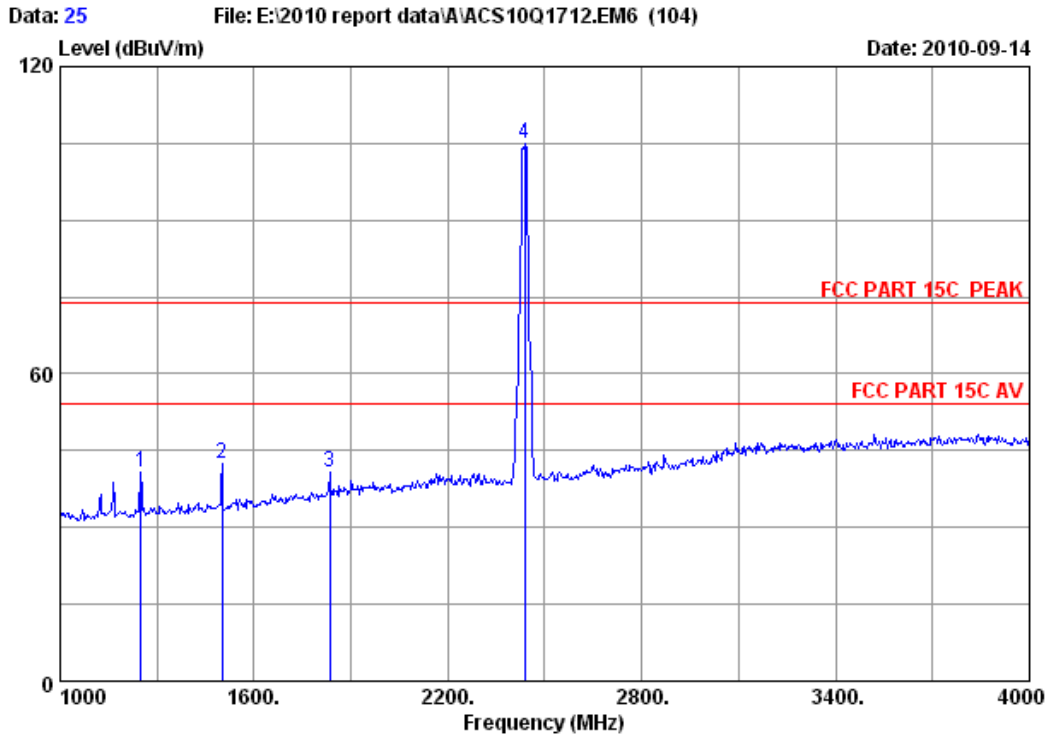


Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : DIR-524

	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	45.25	55.13	74.00	18.87	Peak
2	4824.000	34.32	10.64	35.08	37.97	47.85	54.00	6.15	Average

Remarks:

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

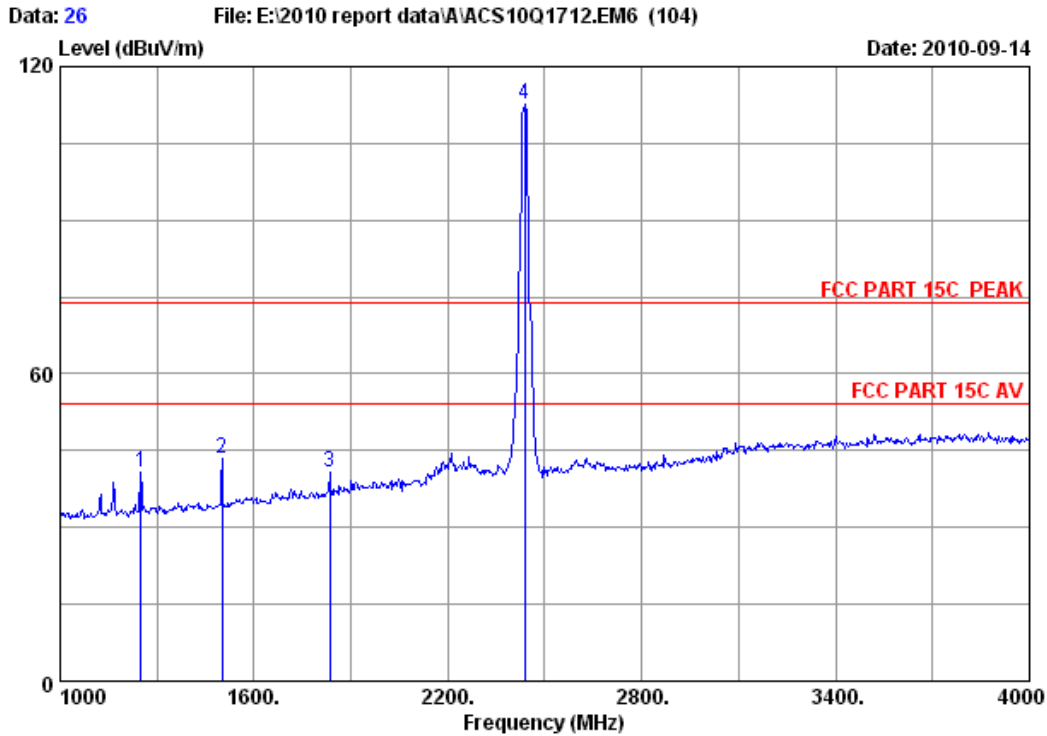


Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : DIR-524

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	1249.000	25.92	5.23	37.45	47.24	40.94	74.00	33.06	Peak
2	1501.000	26.40	5.73	37.00	47.20	42.33	74.00	31.67	Peak
3	1834.000	28.27	6.33	36.79	43.04	40.85	74.00	33.15	Peak
4	2437.000	29.47	7.46	36.61	104.73	105.05	74.00	-31.05	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.

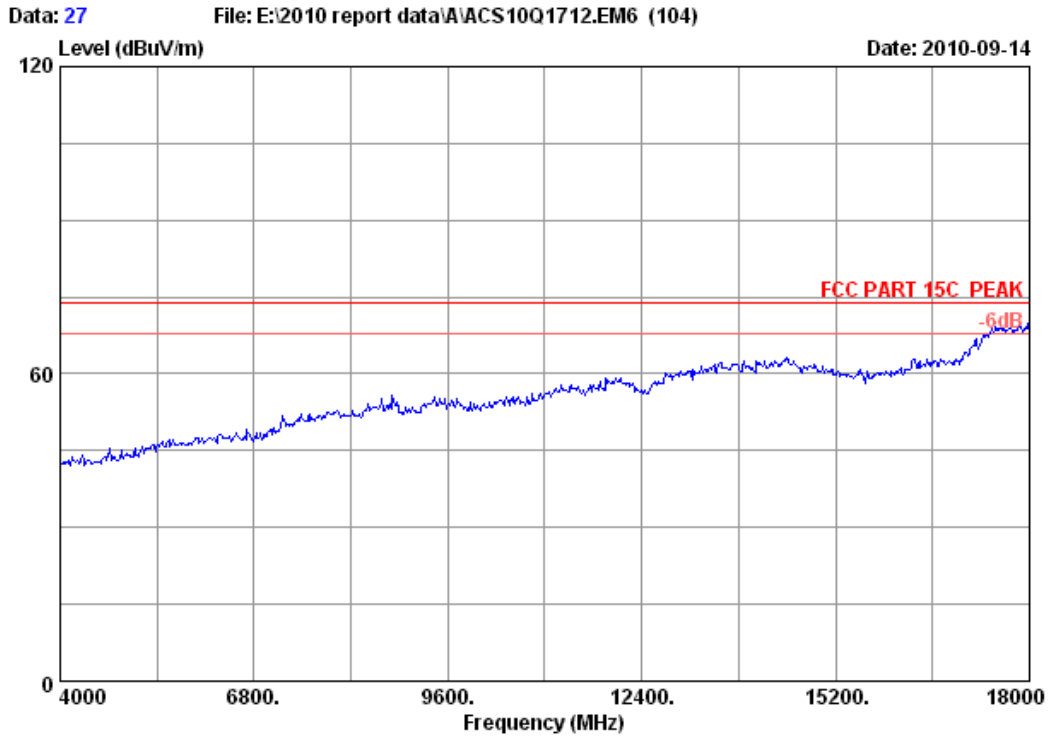


Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : DIR-524

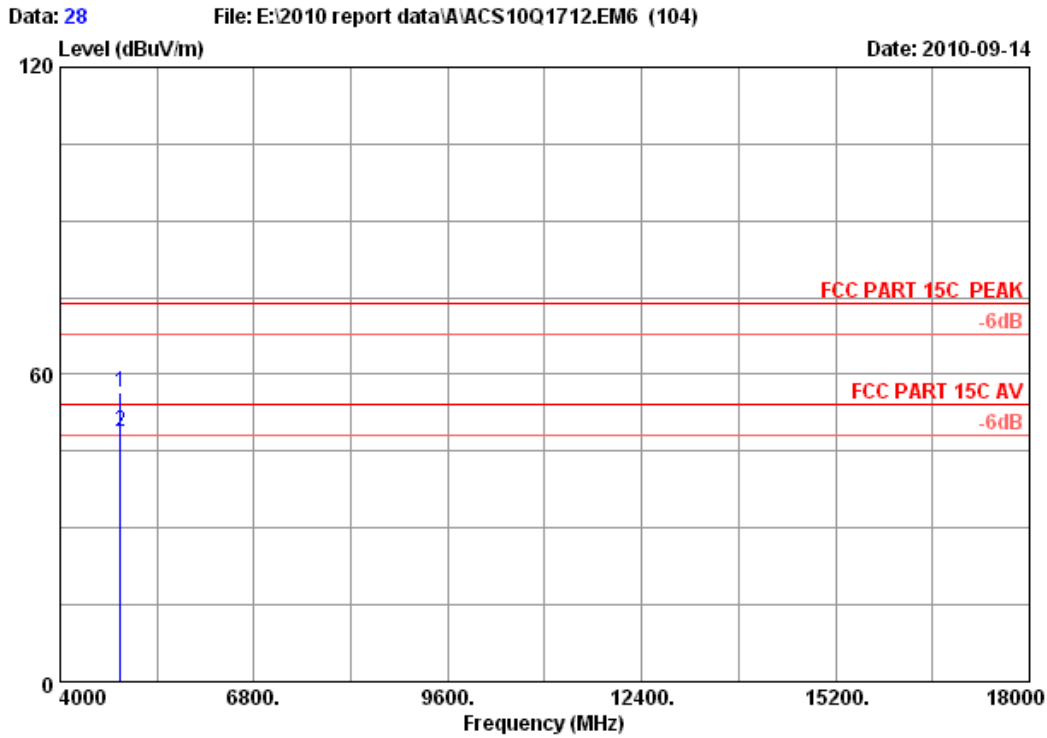
	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	1249.000	25.92	5.23	37.45	47.24	40.94	74.00	33.06	Peak
2	1501.000	26.40	5.73	37.00	48.35	43.48	74.00	30.52	Peak
3	1834.000	28.27	6.33	36.79	43.04	40.85	74.00	33.15	Peak
4	2437.000	29.47	7.46	36.61	112.49	112.81	74.00	-38.81	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. : 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 : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : DIR-524

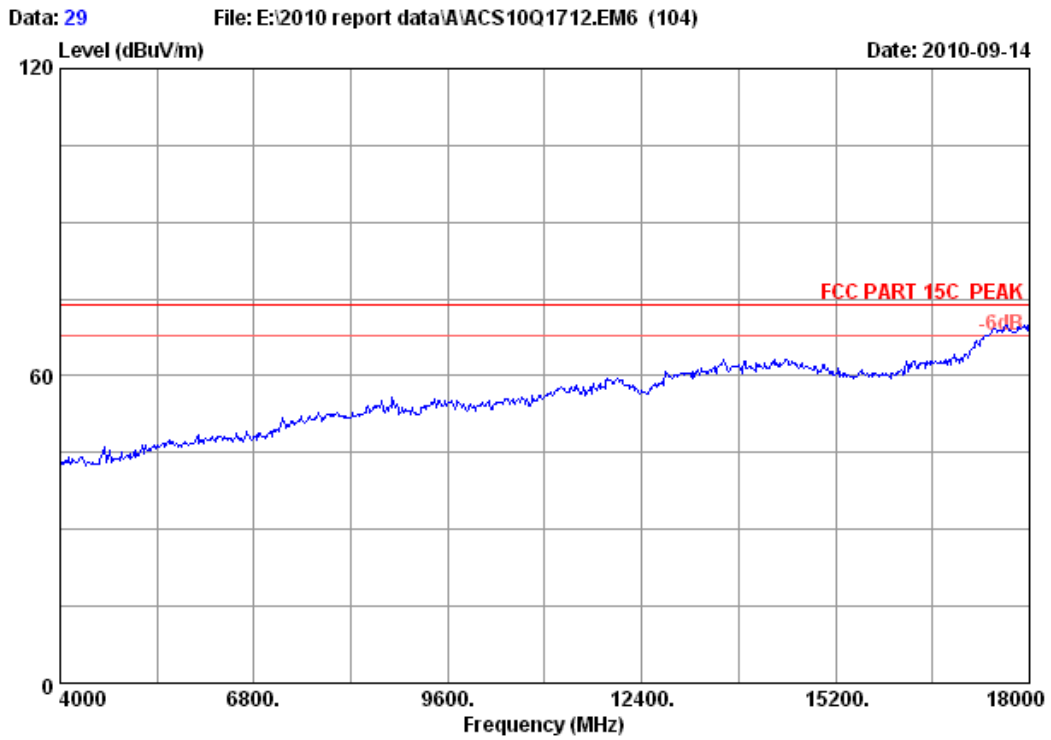


Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : DIR-524

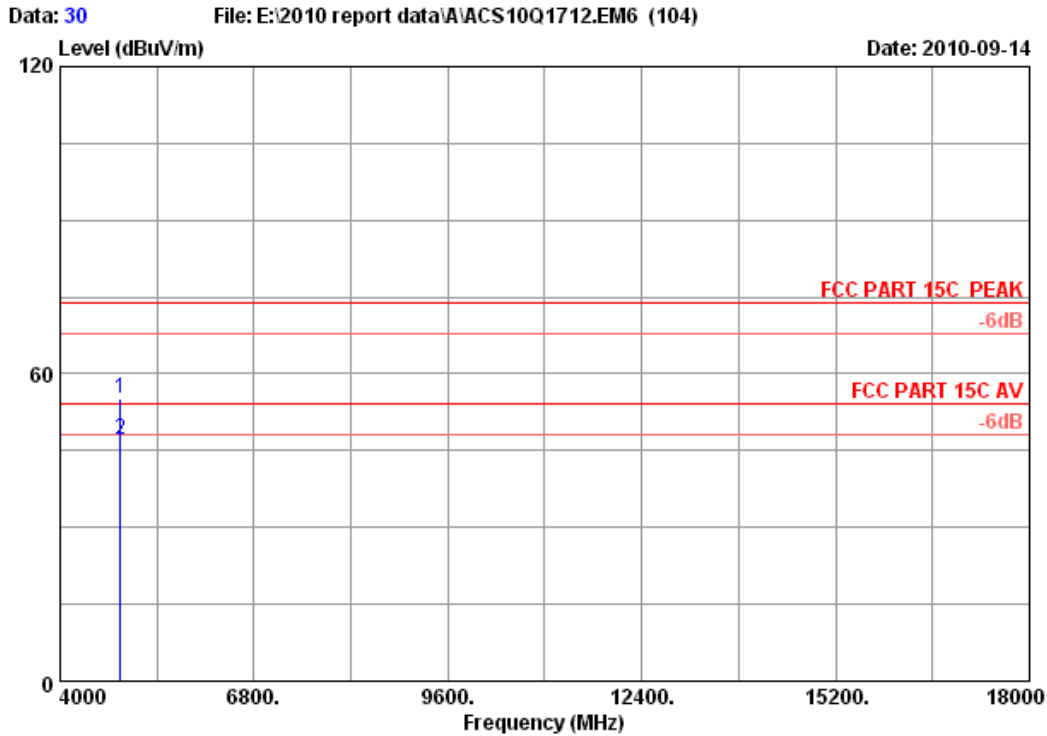
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	10.69	35.03	46.37	56.44	74.00	17.56	Peak
2	4874.000	34.41	10.69	35.03	38.79	48.86	54.00	5.14	Average

Remarks:

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



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 : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : DIR-524

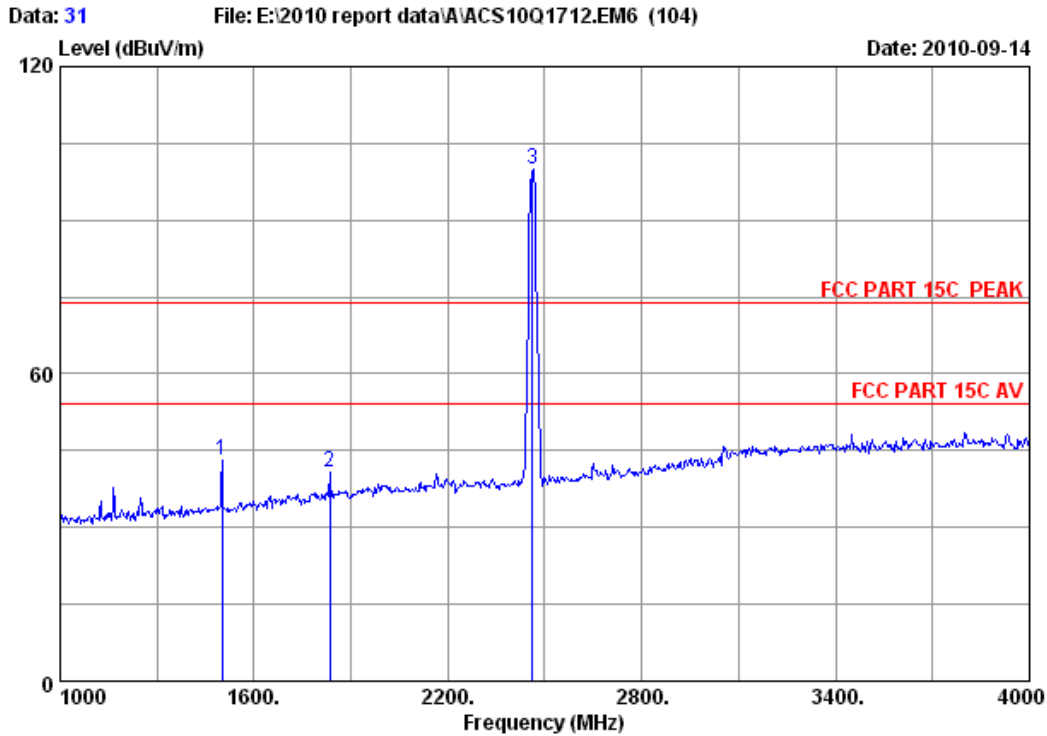


Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : DIR-524

	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	45.13	55.20	74.00	18.80	Peak
2	4874.000	34.41	10.69	35.03	37.15	47.22	54.00	6.78	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.

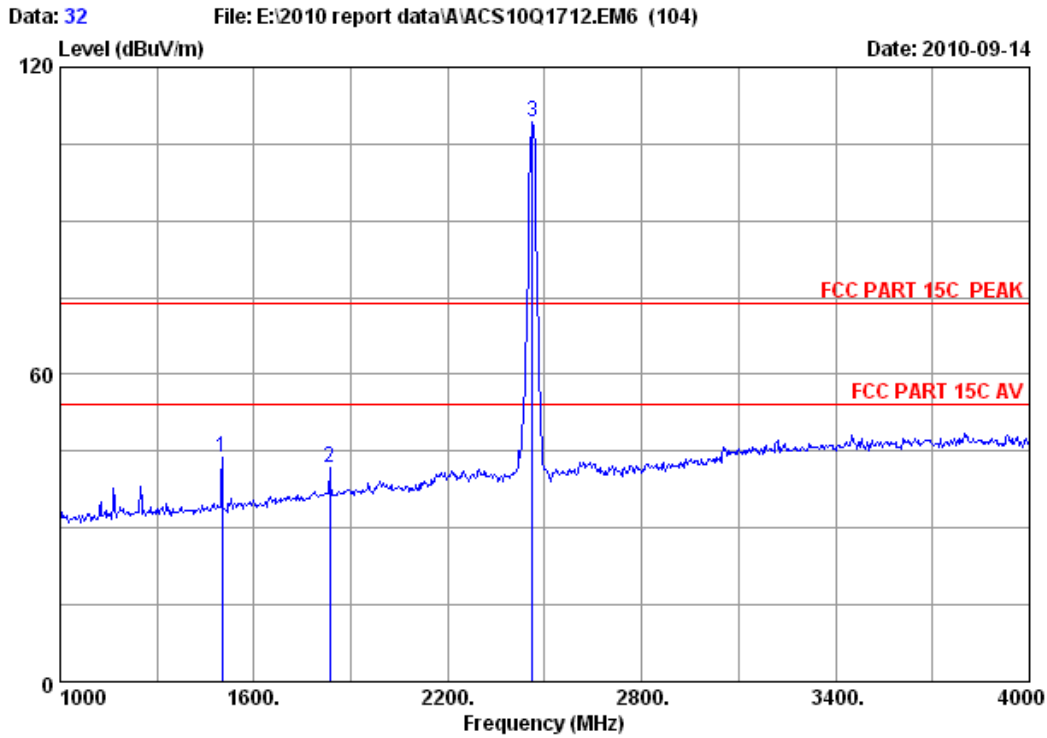


Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : DIR-524

	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	1501.000	26.40	5.73	37.00	47.89	43.02	74.00	30.98	Peak
2	1834.000	28.27	6.33	36.79	42.99	40.80	74.00	33.20	Peak
3	2462.000	29.48	7.54	36.61	99.55	99.96	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.



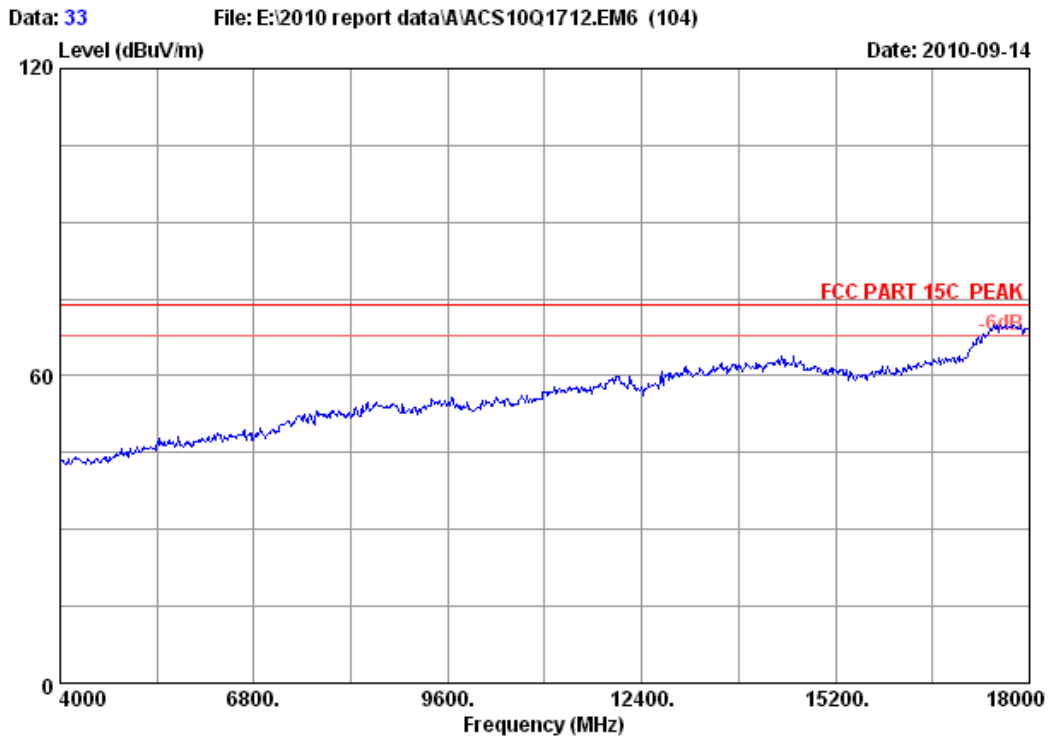
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Site no.      : 3m Chamber
Dis. / Ant.  : 3m 3115(0911)
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23*C/54%
EUT          : Wireless N 150 Router
Power        : DC 5V From Adapter input AC 120V/60Hz
Test mode    : IEEE802.11g CH11 2462MHz Tx
M/N          : DIR-524
Data no.     : 32
Ant. pol.    : VERTICAL
Engineer     : Sunny-lu
    
```

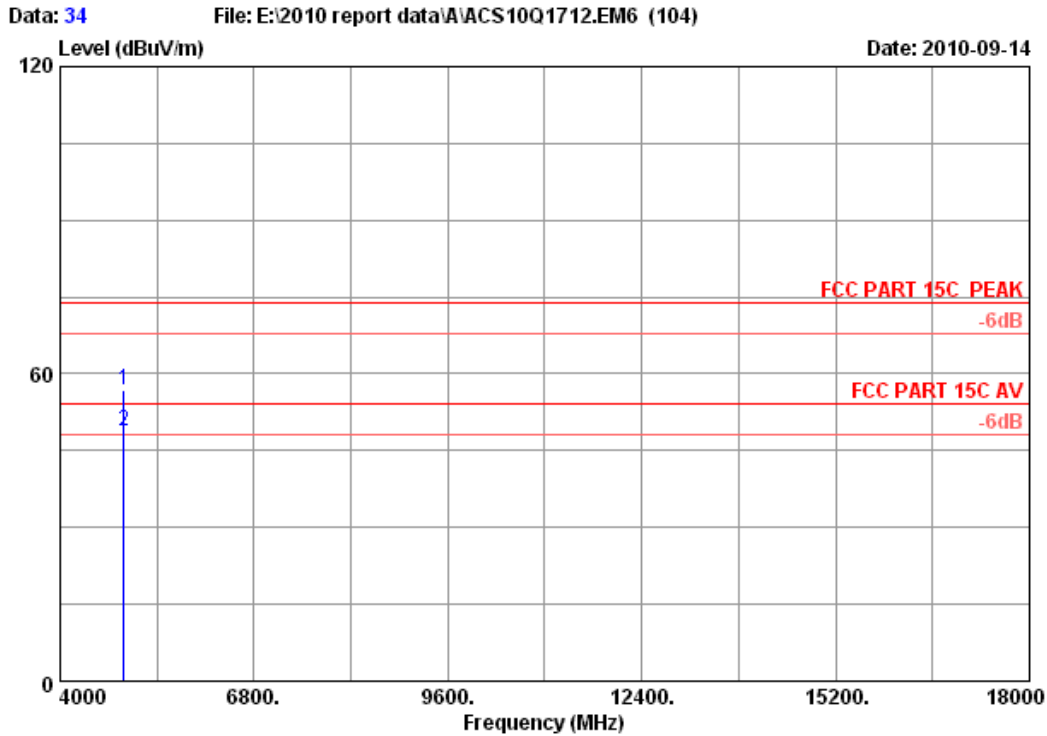
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1501.000	26.40	5.73	37.00	48.71	43.84	74.00	30.16	Peak
2	1834.000	28.27	6.33	36.79	43.94	41.75	74.00	32.25	Peak
3	2462.000	29.48	7.54	36.61	108.75	109.16	74.00	-35.16	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.	: 3m 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	: Wireless N 150 Router		
Power	: DC 5V From Adapter input AC 120V/60Hz		
Test mode	: IEEE802.11g CH11 2462MHz Tx		
M/N	: DIR-524		

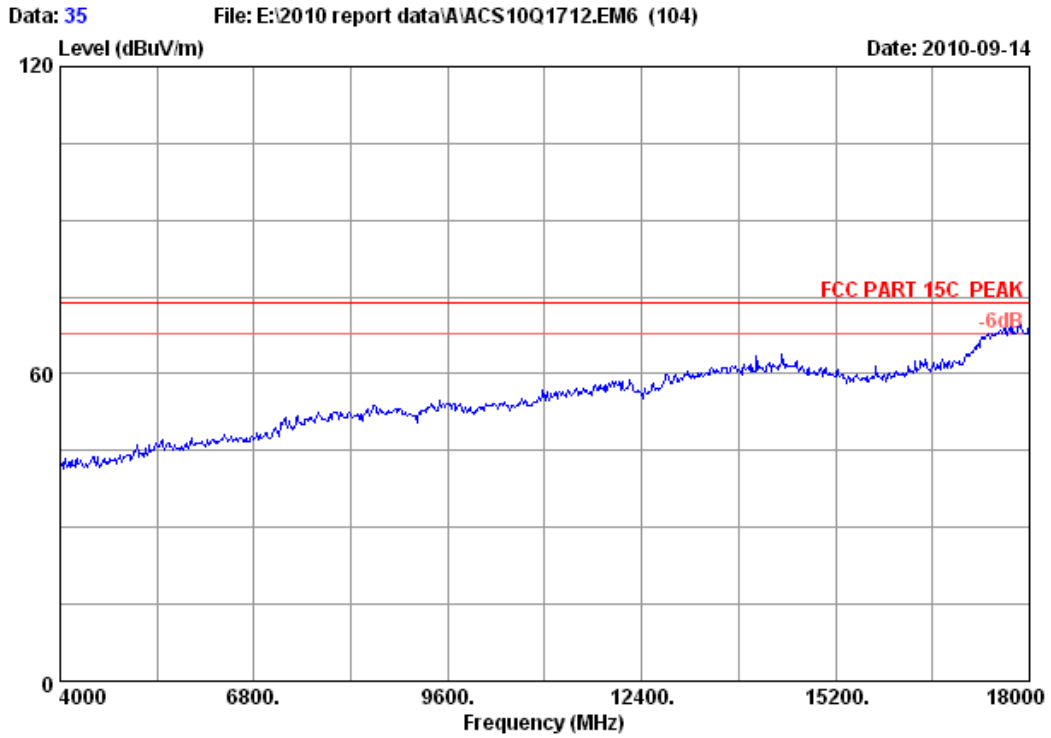


Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : DIR-524

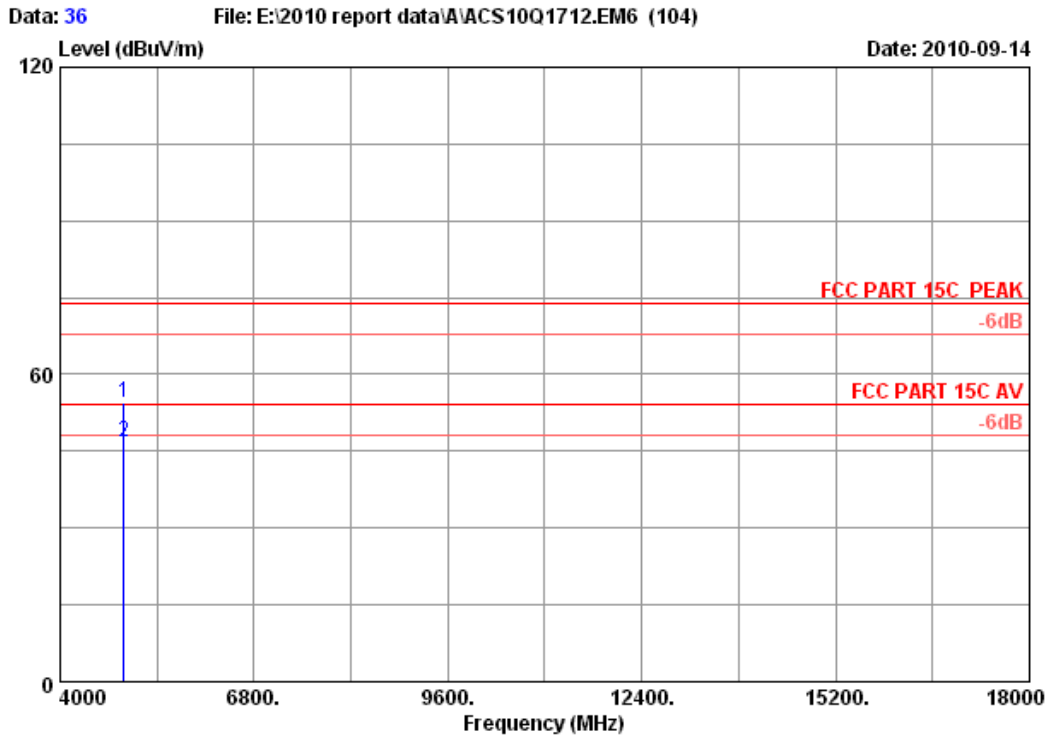
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	34.49	10.76	34.98	46.48	56.75	74.00	17.25	Peak
2	4924.000	34.49	10.76	34.98	38.52	48.79	54.00	5.21	Average

Remarks:

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



Site no.	: 3m Chamber	Data no.	: 35
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: Wireless N 150 Router		
Power	: DC 5V From Adapter input AC 120V/60Hz		
Test mode	: IEEE802.11g CH11 2462MHz Tx		
M/N	: DIR-524		

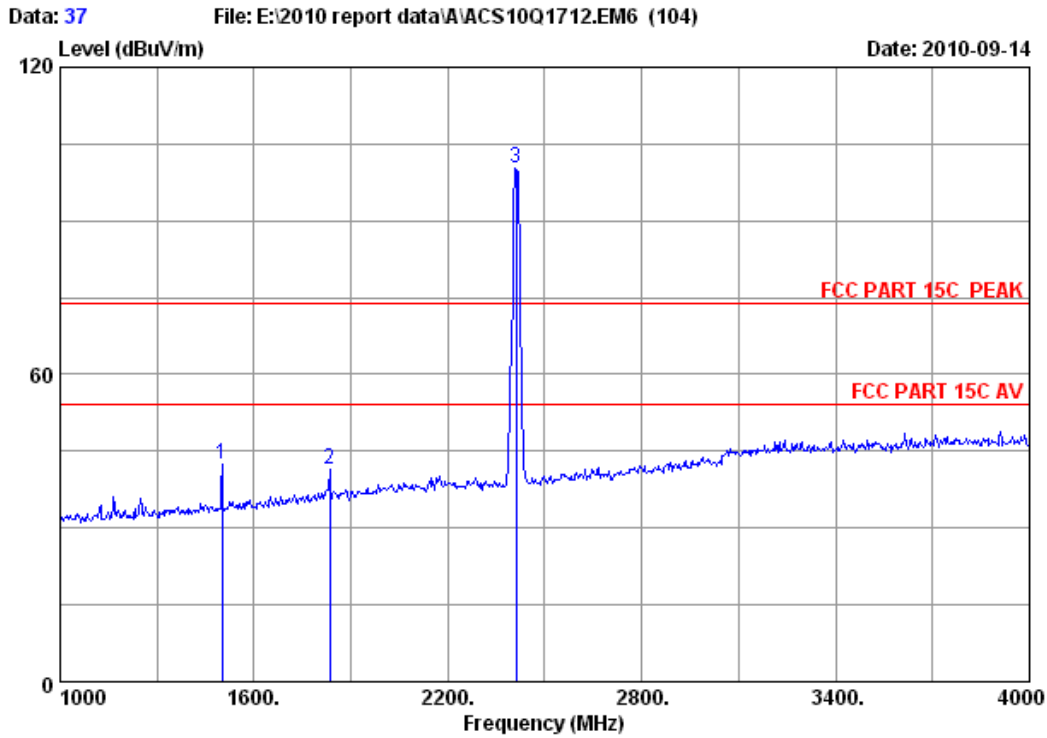


Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : DIR-524

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4924.000	34.49	10.76	34.98	44.35	54.62	74.00	19.38	Peak
2	4924.000	34.49	10.76	34.98	36.62	46.89	54.00	7.11	Average

Remarks:

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



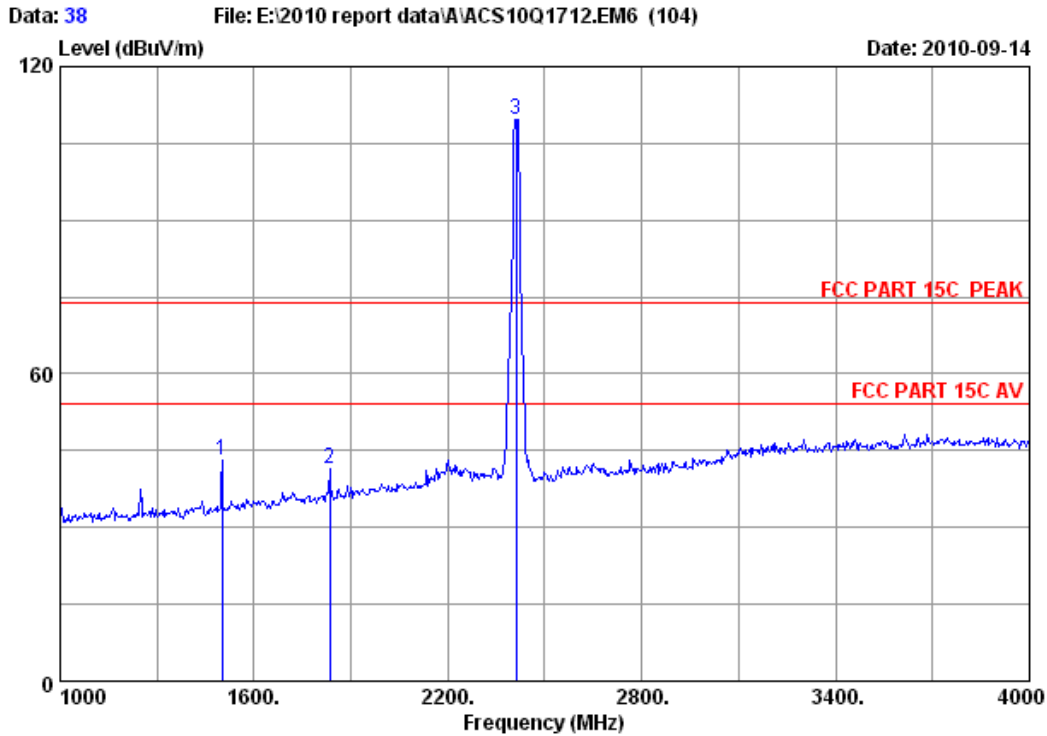
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Site no.      : 3m Chamber           Data no.   : 37
Dis. / Ant.  : 3m 3115(0911)       Ant. pol.  : HORIZONTAL
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23*C/54%           Engineer   : Sunny-lu
EUT          : Wireless N 150 Router
Power        : DC 5V From Adapter input AC 120V/60Hz
Test mode    : IEEE802.11n HT20 CH1 2412MHz Tx
M/N         : DIR-524
    
```

	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	1501.000	26.40	5.73	37.00	47.19	42.32	74.00	31.68	Peak
2	1834.000	28.27	6.33	36.79	43.50	41.31	74.00	32.69	Peak
3	2412.000	29.45	7.43	36.62	99.98	100.24	74.00	-26.24	Peak

Remarks:

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

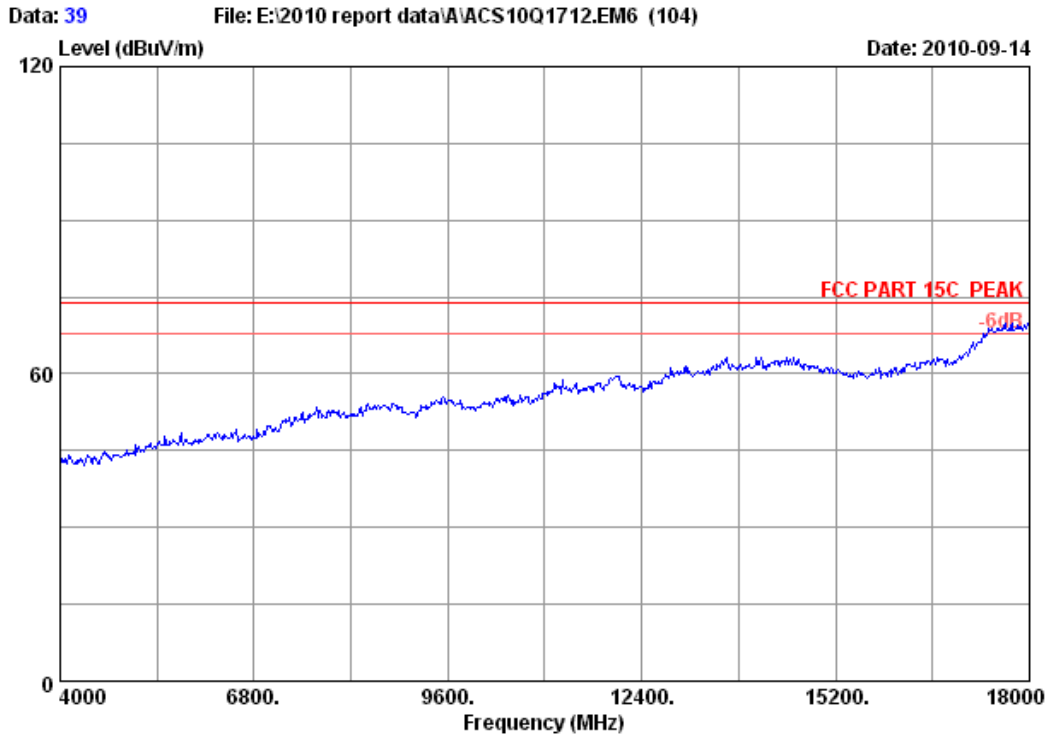


Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : DIR-524

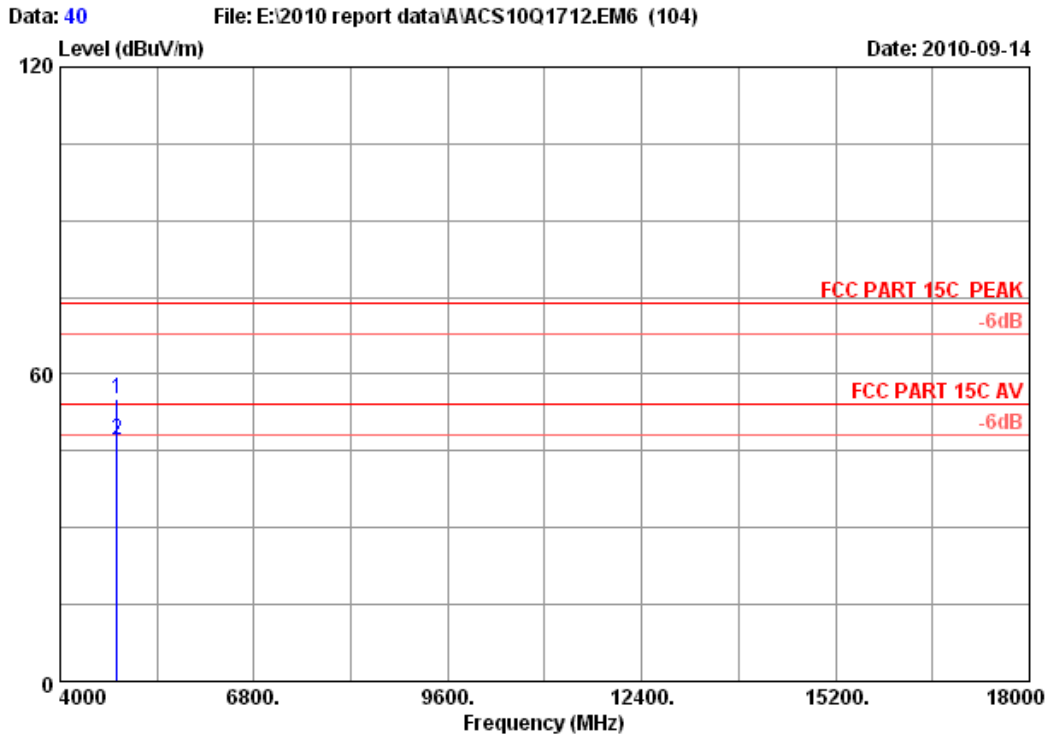
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	1501.000	26.40	5.73	37.00	47.87	43.00	74.00	31.00	Peak
2	1834.000	28.27	6.33	36.79	43.54	41.35	74.00	32.65	Peak
3	2412.000	29.45	7.43	36.62	109.53	109.79	74.00	-35.79	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
M/N : DIR-524

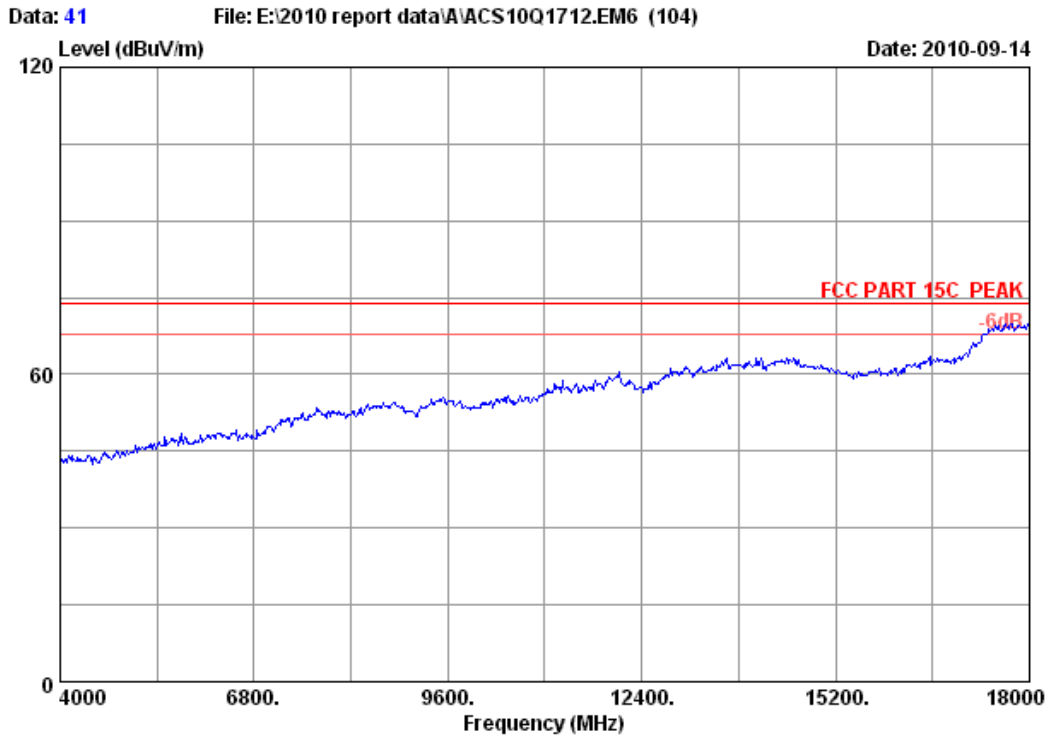


Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : DIR-524

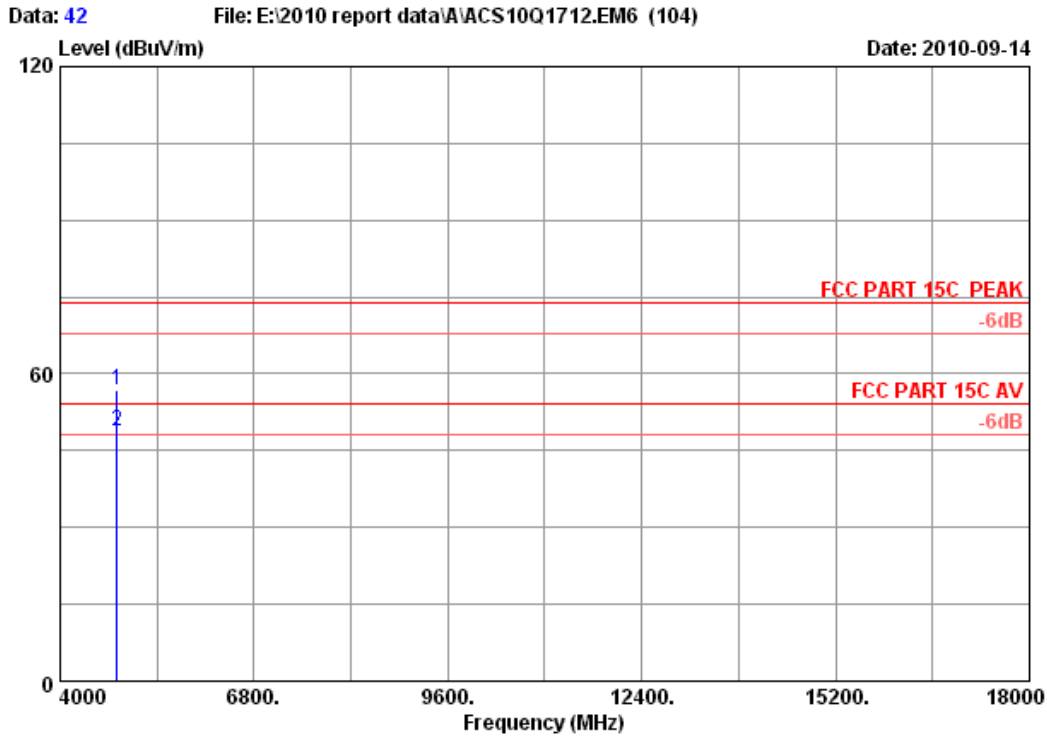
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.32	10.64	35.08	45.20	55.08	74.00	18.92	Peak
2	4824.000	34.32	10.64	35.08	37.20	47.08	54.00	6.92	Average

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 : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
M/N : DIR-524

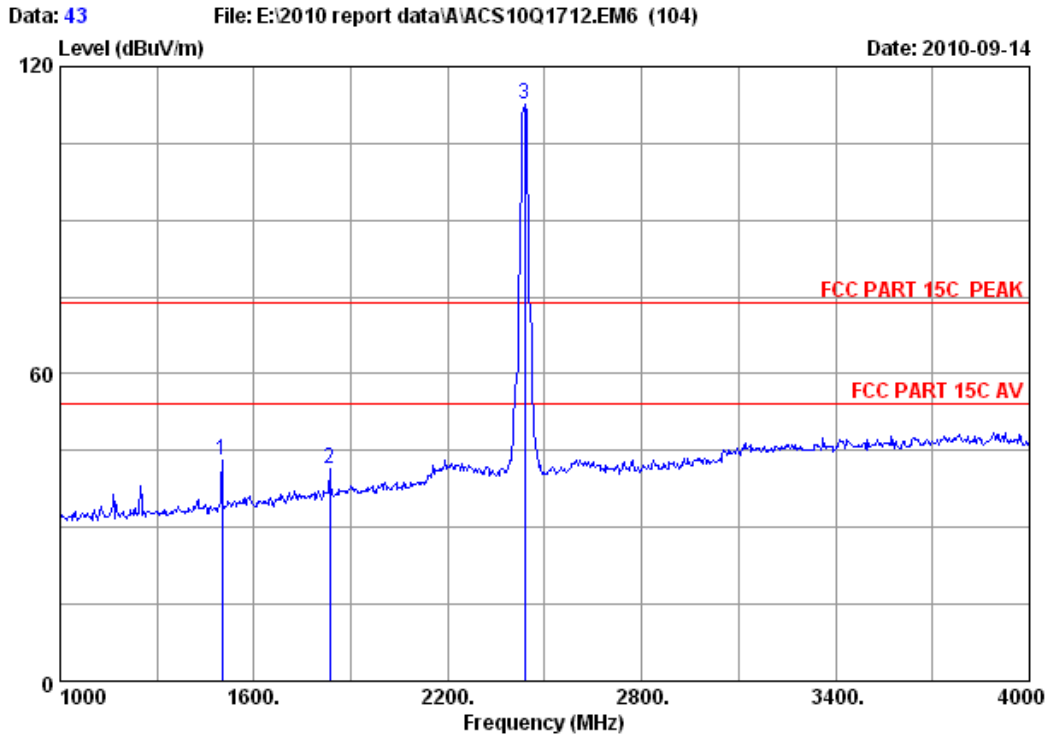


Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : DIR-524

	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	47.02	56.90	74.00	17.10	Peak
2	4824.000	34.32	10.64	35.08	38.96	48.84	54.00	5.16	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.

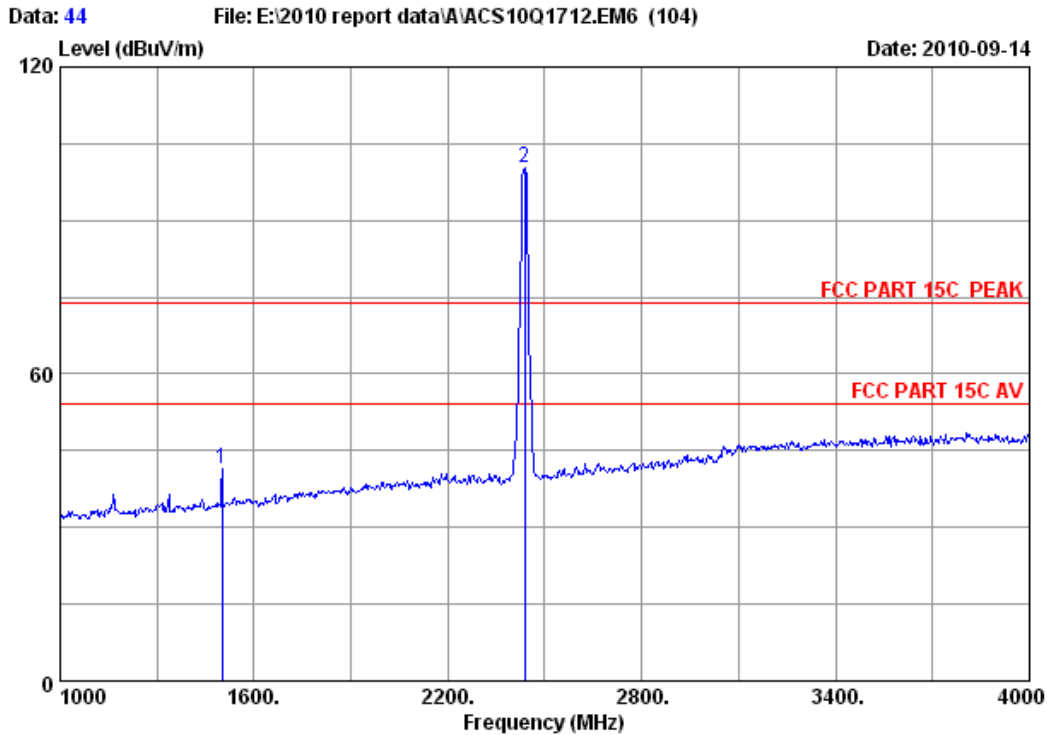


Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : DIR-524

	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	1501.000	26.40	5.73	37.00	47.89	43.02	74.00	30.98	Peak
2	1834.000	28.27	6.33	36.79	43.72	41.53	74.00	32.47	Peak
3	2437.000	29.47	7.46	36.61	112.30	112.62	74.00	-38.62	Peak

Remarks:

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

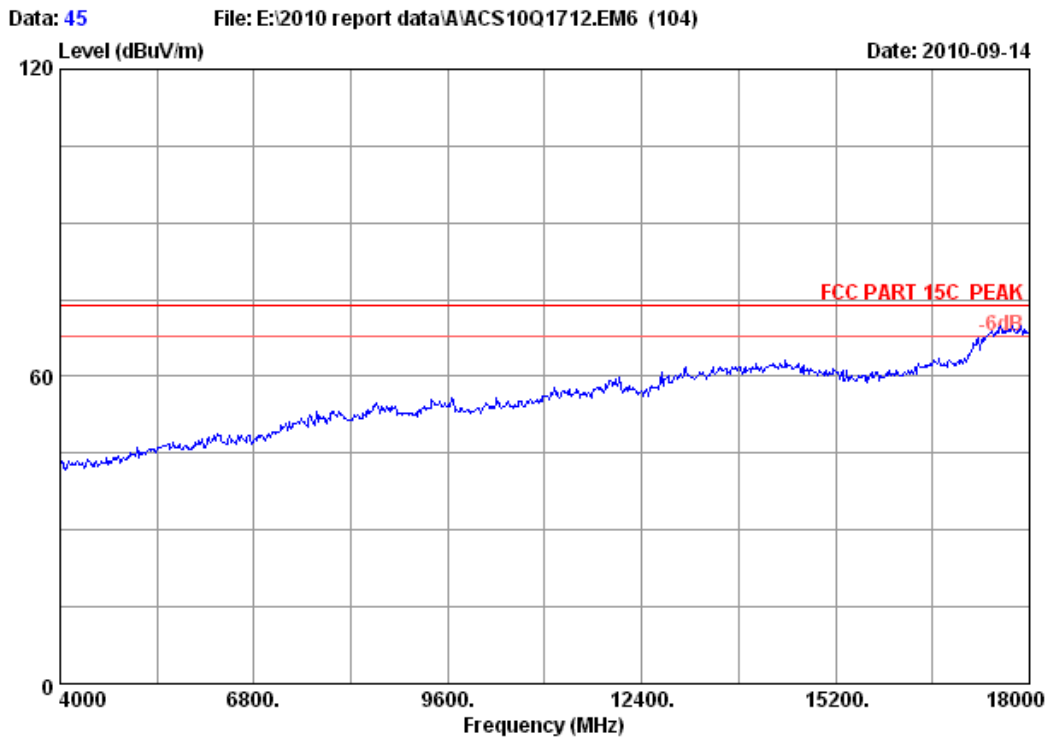


Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : DIR-524

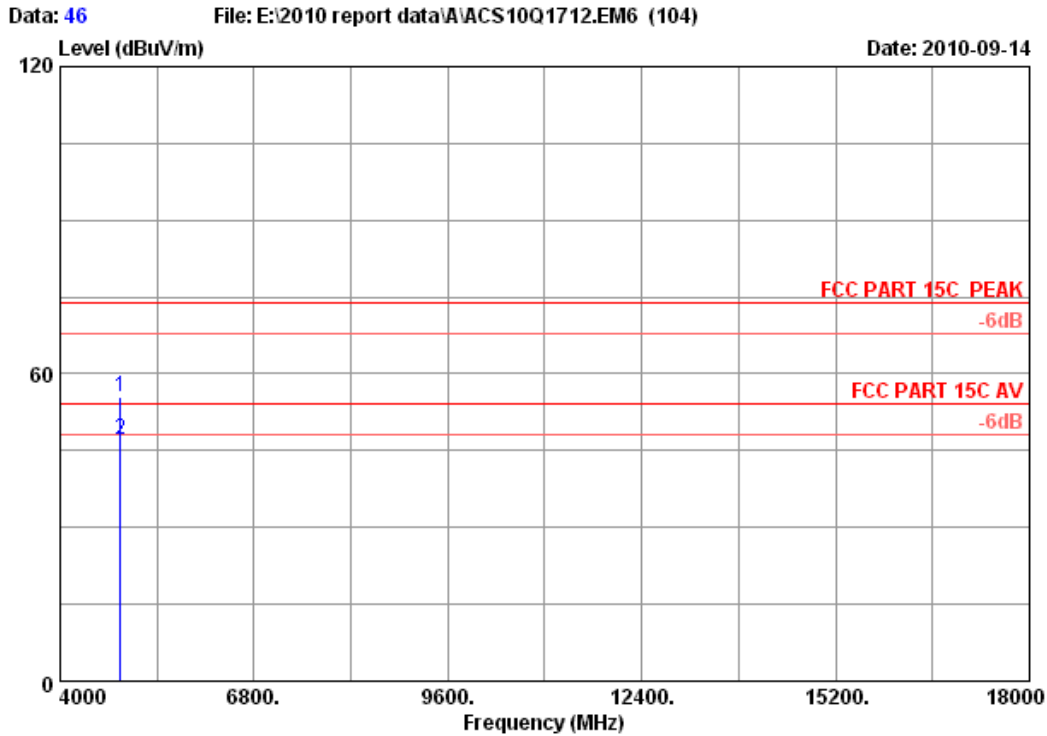
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	1501.000	26.40	5.73	37.00	46.26	41.39	74.00	32.61	Peak
2	2437.000	29.47	7.46	36.61	100.10	100.42	74.00	-26.42	Peak

Remarks:

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



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 : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
M/N : DIR-524

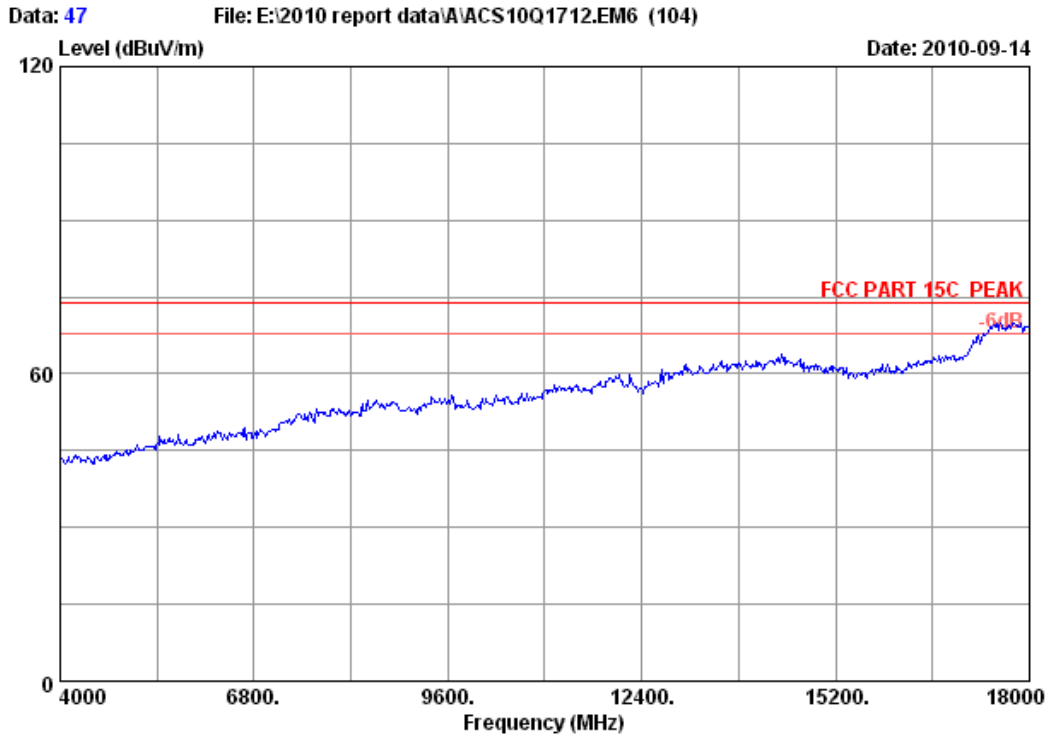


Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : DIR-524

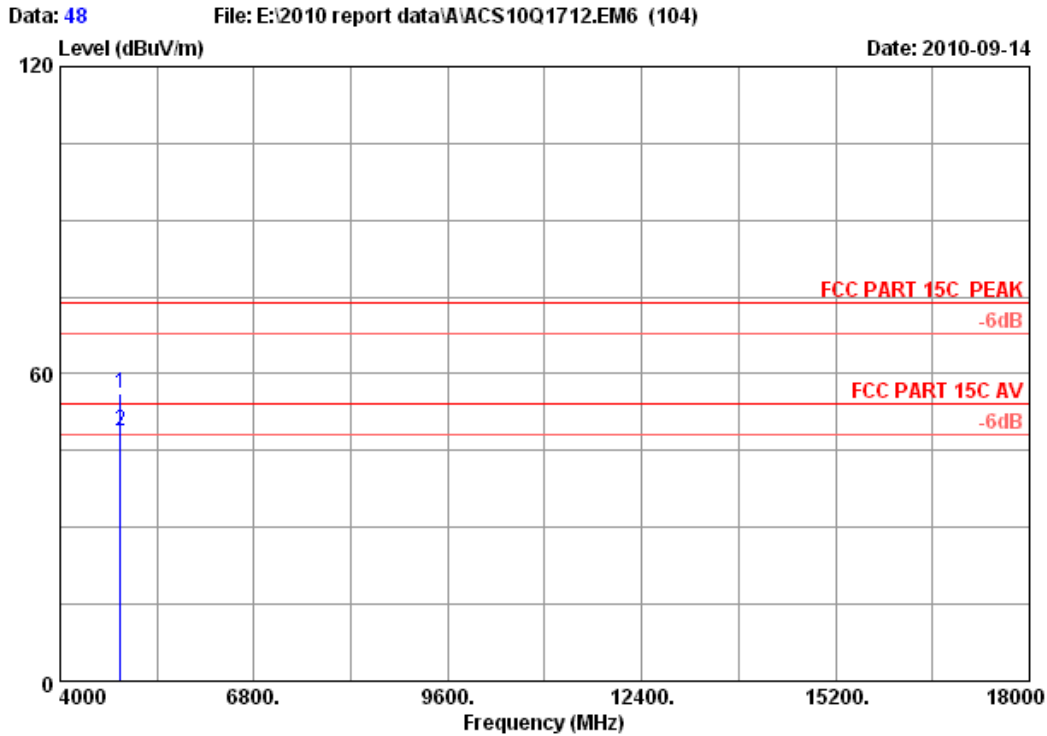
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	10.69	35.03	45.25	55.32	74.00	18.68	Peak
2	4874.000	34.41	10.69	35.03	37.18	47.25	54.00	6.75	Average

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. : 47
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
M/N : DIR-524

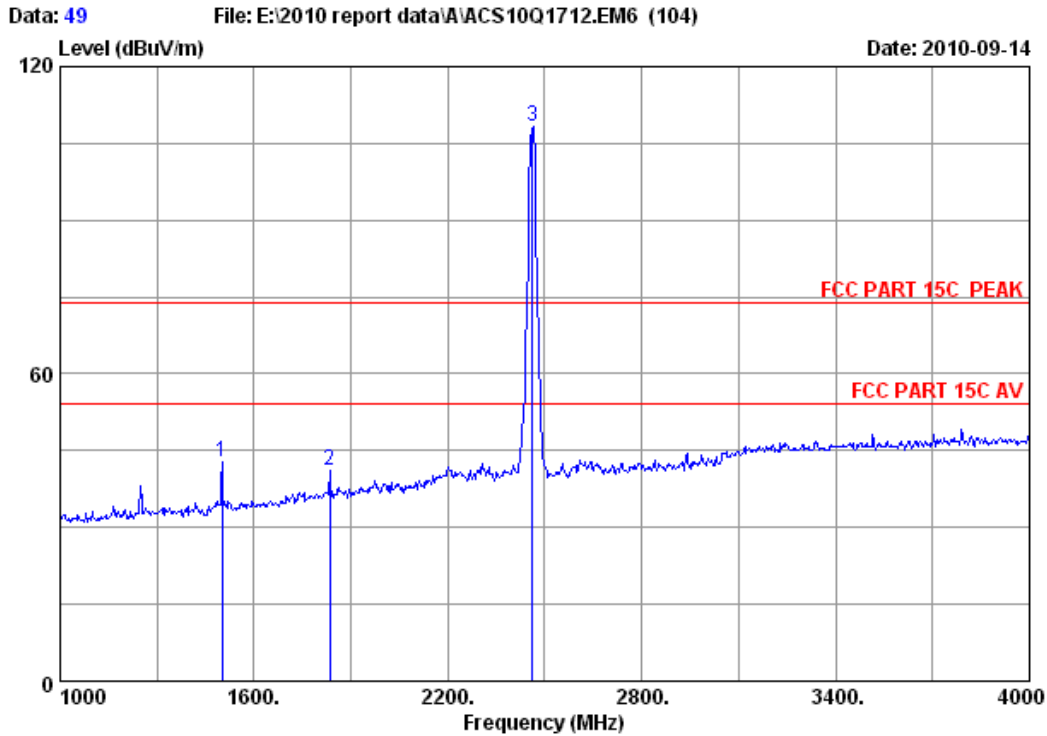


Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : DIR-524

	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	46.13	56.20	74.00	17.80	Peak
2	4874.000	34.41	10.69	35.03	38.85	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.



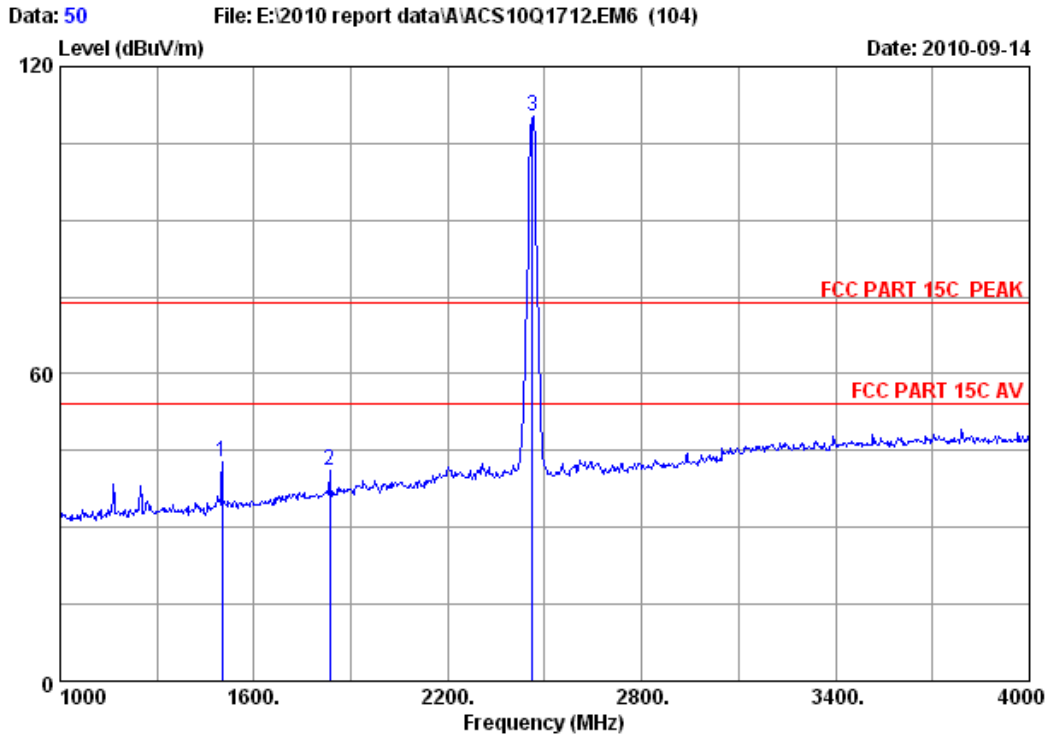
```

Site no.      : 3m Chamber           Data no.   : 49
Dis. / Ant.   : 3m 3115(0911)       Ant. pol.  : VERTICAL
Limit        : FCC PART 15C PEAK
Env. / Ins.   : 23*C/54%           Engineer   : Sunny-lu
EUT          : Wireless N 150 Router
Power        : DC 5V From Adapter input AC 120V/60Hz
Test mode    : IEEE802.11n HT20 CH11 2462MHz Tx
M/N         : DIR-524
    
```

	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	1501.000	26.40	5.73	37.00	47.76	42.89	74.00	31.11	Peak
2	1834.000	28.27	6.33	36.79	43.45	41.26	74.00	32.74	Peak
3	2462.000	29.48	7.54	36.61	107.96	108.37	74.00	-34.37	Peak

Remarks:

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



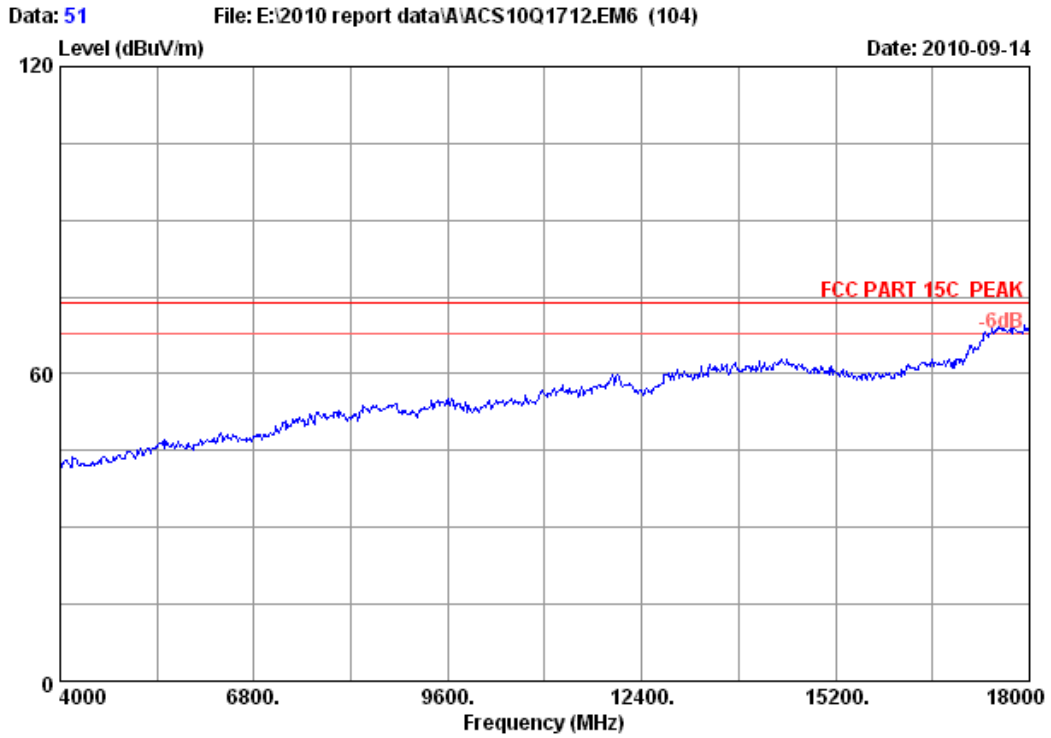
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Site no.       : 3m Chamber           Data no.      : 50
Dis. / Ant.   : 3m 3115(0911)        Ant. pol.    : HORIZONTAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : 23*C/54%            Engineer     : Sunny-lu
EUT           : Wireless N 150 Router
Power         : DC 5V From Adapter input AC 120V/60Hz
Test mode     : IEEE802.11n HT20 CH11 2462MHz Tx
M/N          : DIR-524
    
```

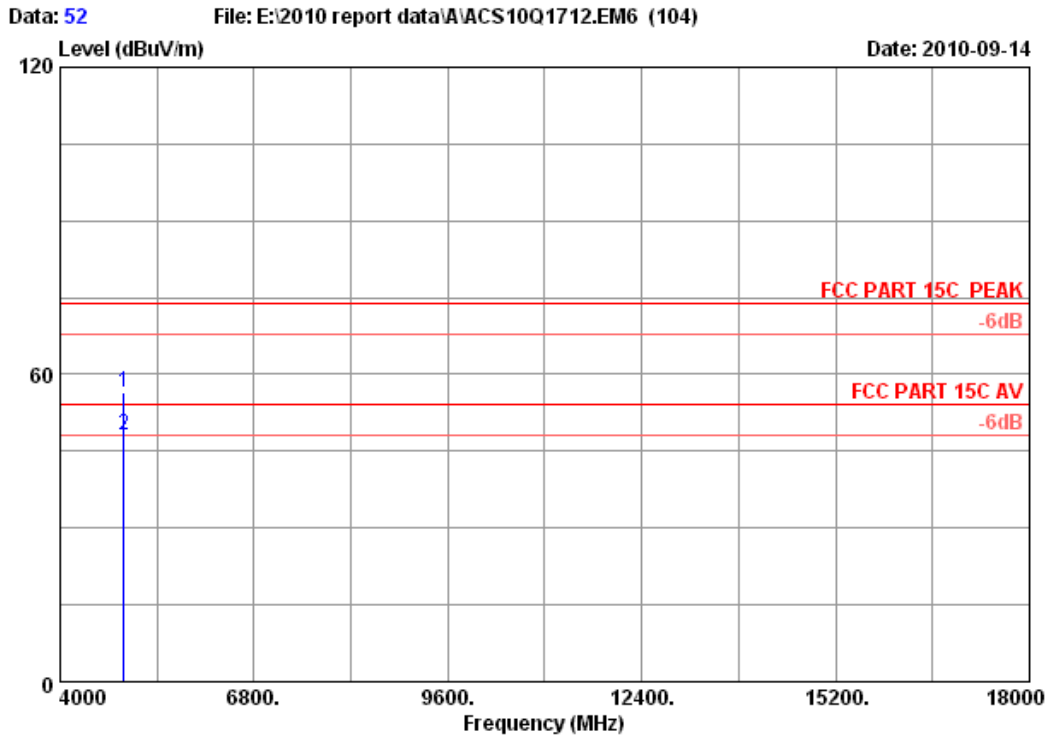
	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	1501.000	26.40	5.73	37.00	47.76	42.89	74.00	31.11	Peak
2	1834.000	28.27	6.33	36.79	43.45	41.26	74.00	32.74	Peak
3	2462.000	29.48	7.54	36.61	109.96	110.37	74.00	-36.37	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. : 51
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
M/N : DIR-524

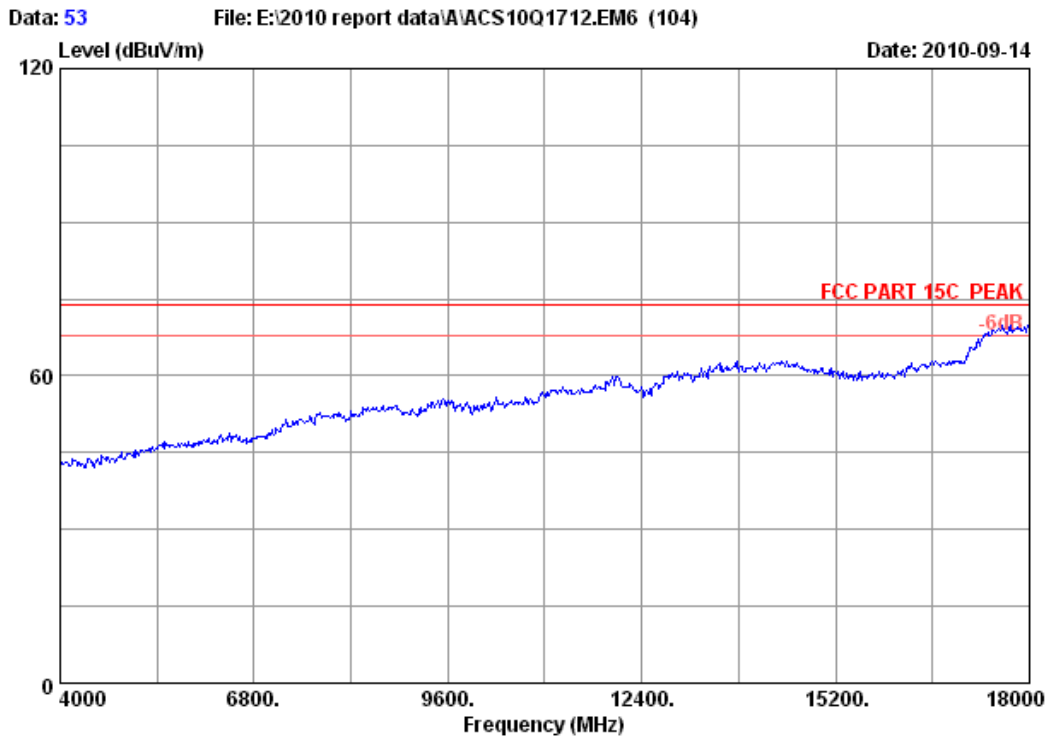


Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : DIR-524

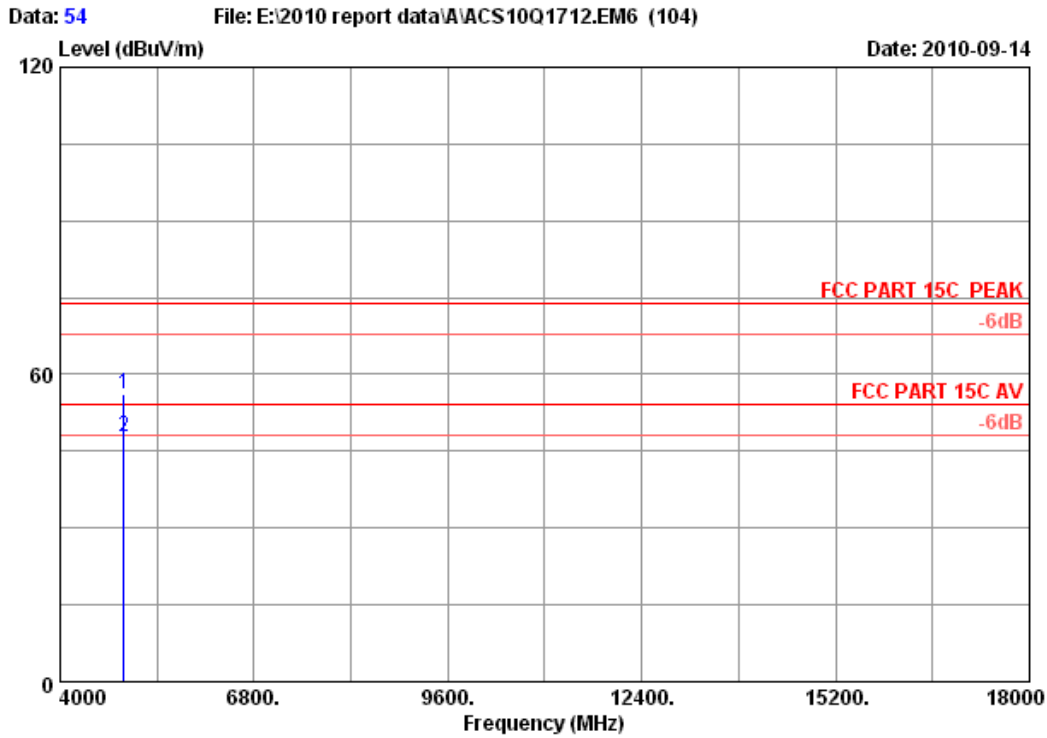
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	4924.000	34.49	10.76	34.98	46.22	56.49	74.00	17.51	Peak
2	4924.000	34.49	10.76	34.98	37.85	48.12	54.00	5.88	Average

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. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
M/N : DIR-524

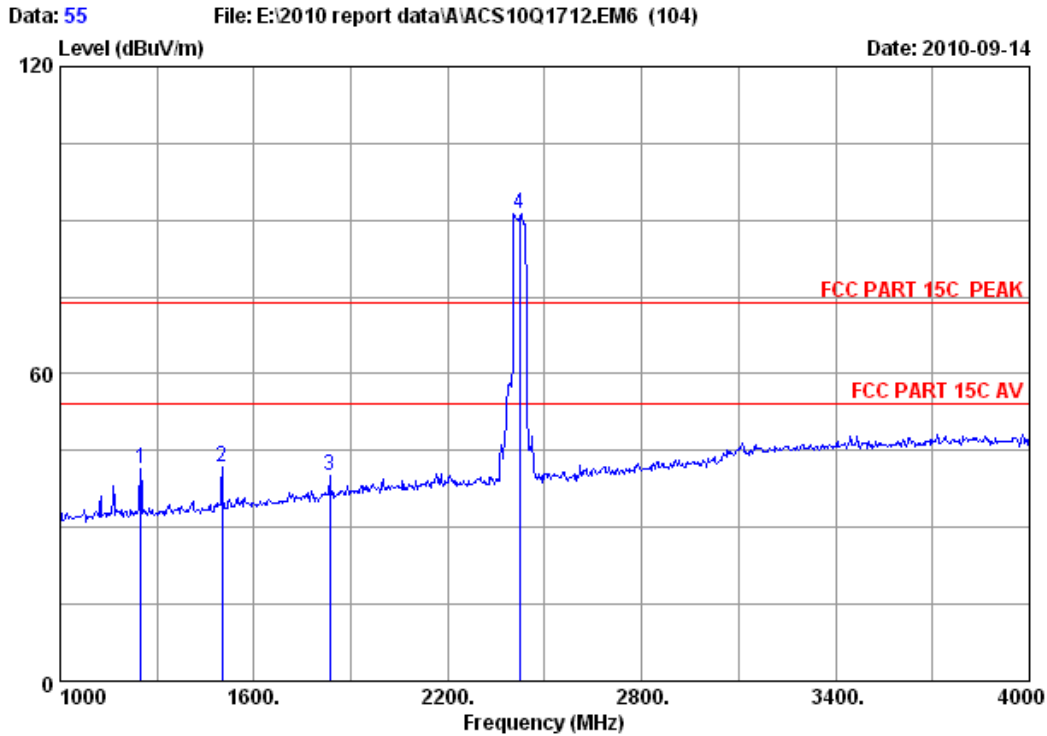


Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : DIR-524

	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	45.96	56.23	74.00	17.77	Peak
2	4924.000	34.49	10.76	34.98	37.49	47.76	54.00	6.24	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.

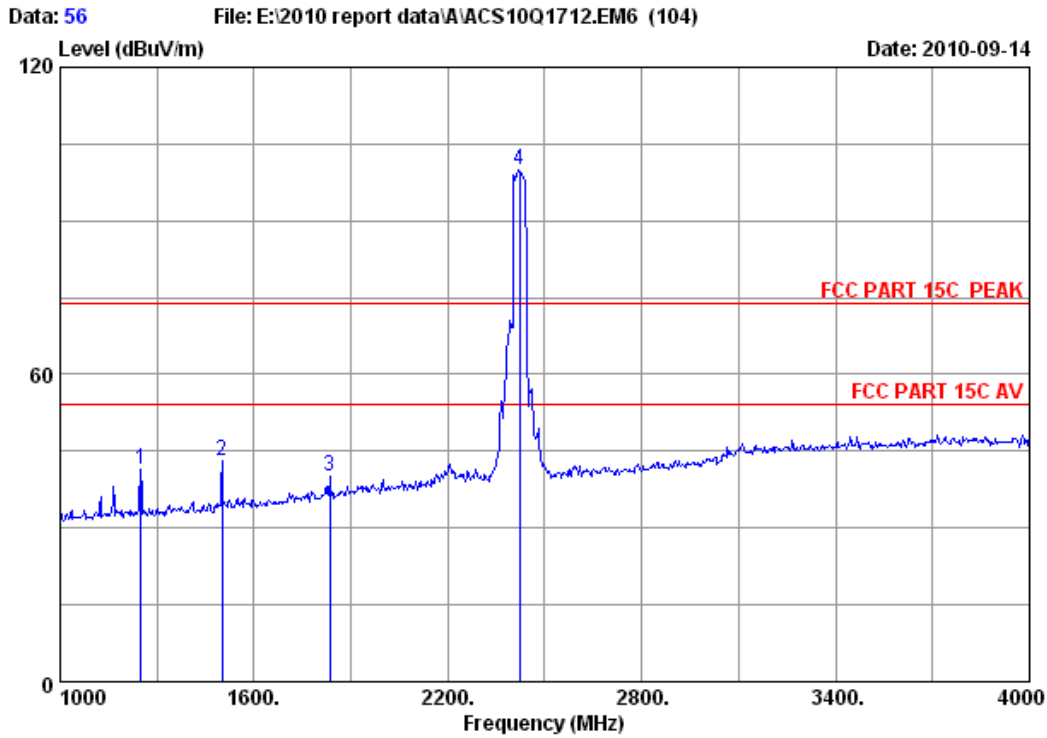


Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : DIR-524

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	1249.000	25.92	5.23	37.45	47.85	41.55	74.00	32.45	Peak
2	1501.000	26.40	5.73	37.00	46.56	41.69	74.00	32.31	Peak
3	1834.000	28.27	6.33	36.79	42.35	40.16	74.00	33.84	Peak
4	2422.000	29.46	7.46	36.61	91.10	91.41	74.00	-17.41	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.

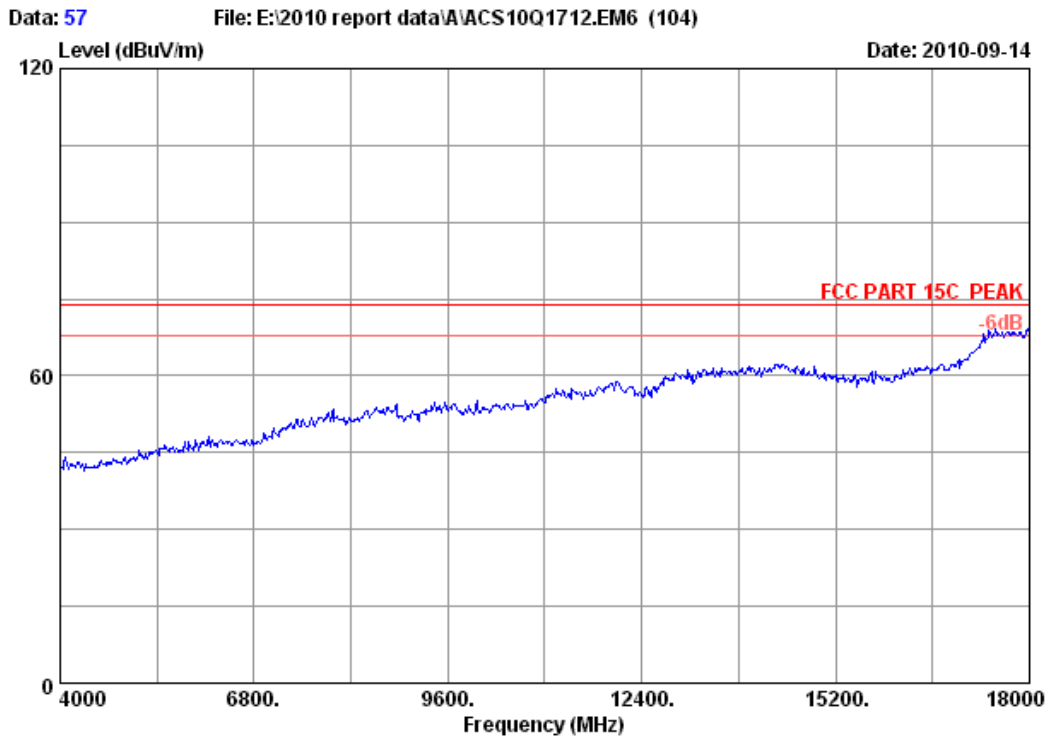


Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : DIR-524

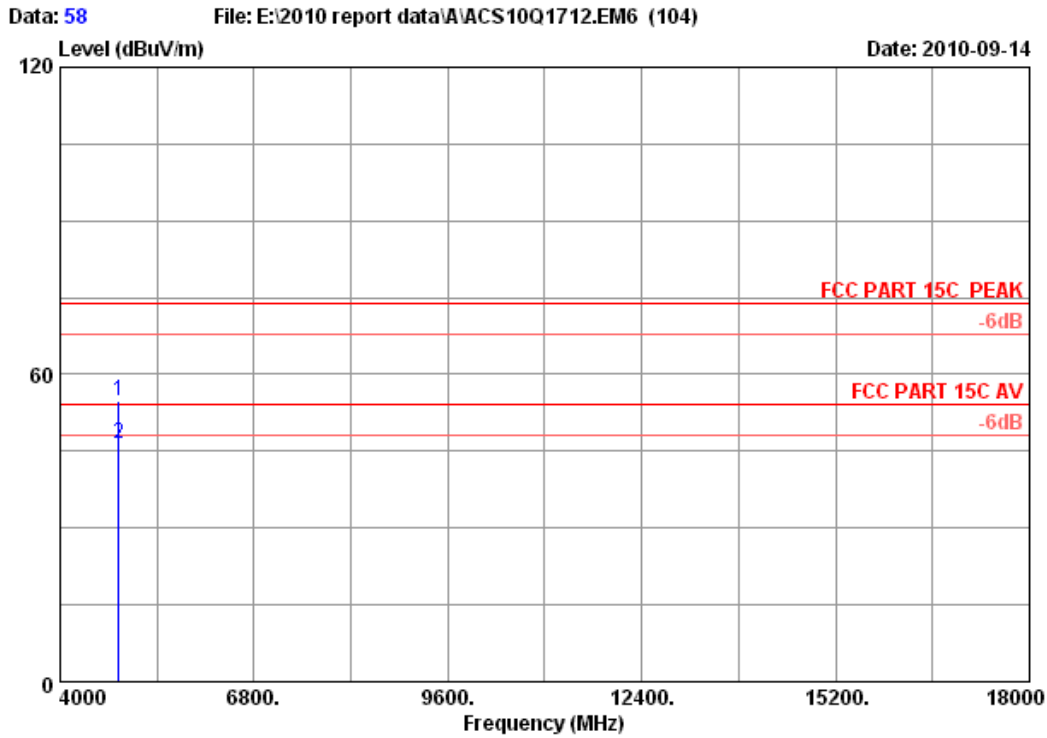
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	1249.000	25.92	5.23	37.45	47.85	41.55	74.00	32.45	Peak
2	1501.000	26.40	5.73	37.00	48.13	43.26	74.00	30.74	Peak
3	1834.000	28.27	6.33	36.79	42.35	40.16	74.00	33.84	Peak
4	2422.000	29.46	7.46	36.61	99.79	100.10	74.00	-26.10	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 57
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
M/N : DIR-524

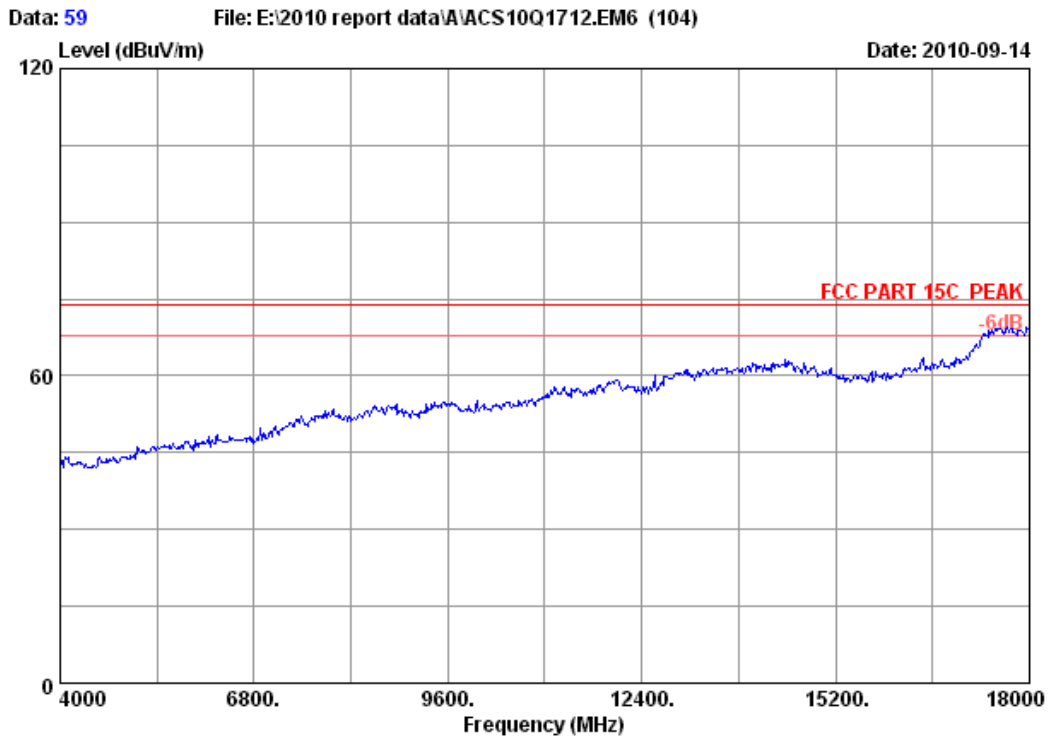


Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : DIR-524

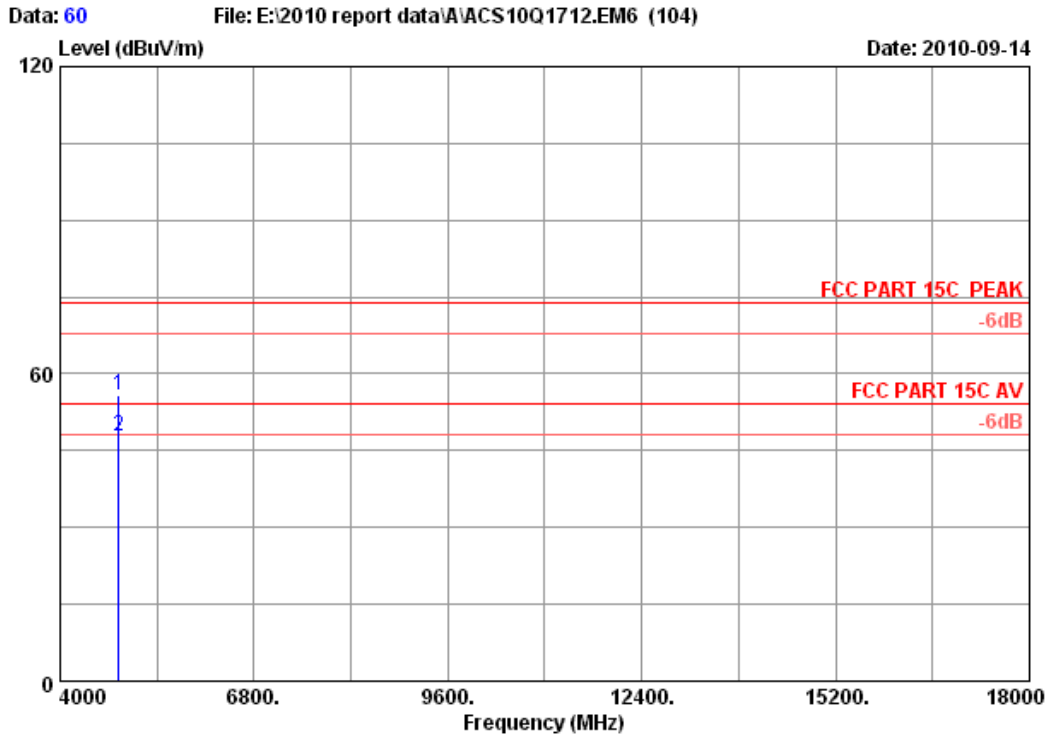
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4844.000	34.35	10.67	35.05	44.99	54.96	74.00	19.04	Peak
2	4844.000	34.35	10.67	35.05	36.48	46.45	54.00	7.55	Average

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.	: 59
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: Wireless N 150 Router		
Power	: DC 5V From Adapter input AC 120V/60Hz		
Test mode	: IEEE802.11n HT40 CH1 2422MHz Tx		
M/N	: DIR-524		

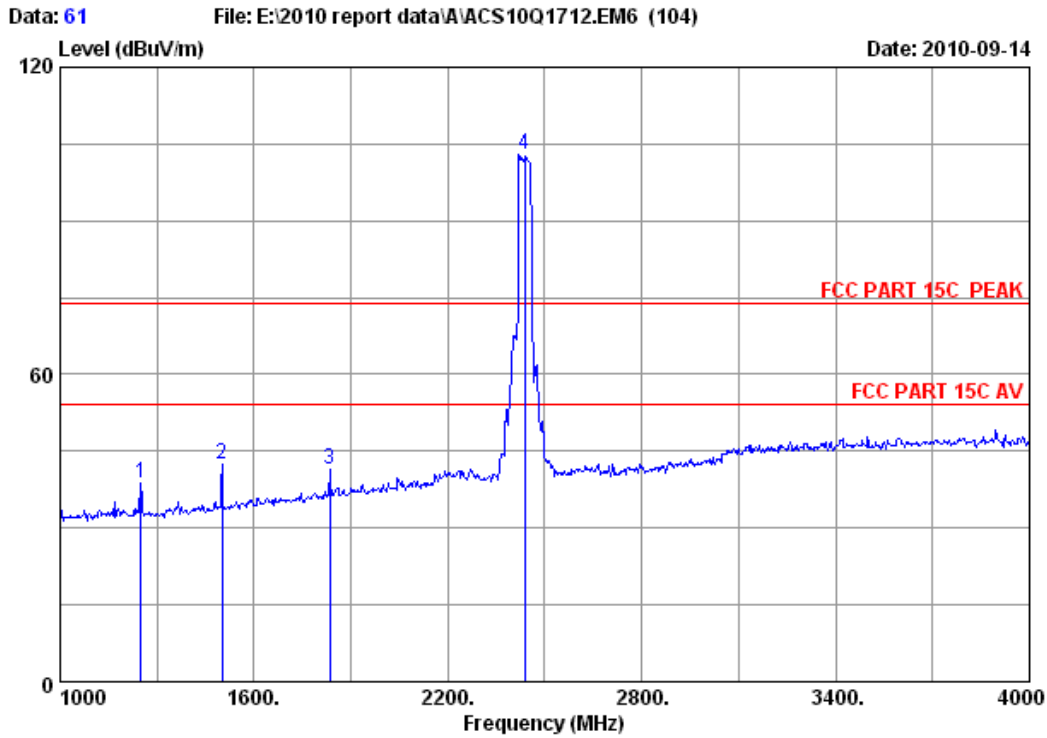


Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : DIR-524

	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	4844.000	34.35	10.67	35.05	45.69	55.66	74.00	18.34	Peak
2	4844.000	34.35	10.67	35.05	37.84	47.81	54.00	6.19	Average

Remarks:

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



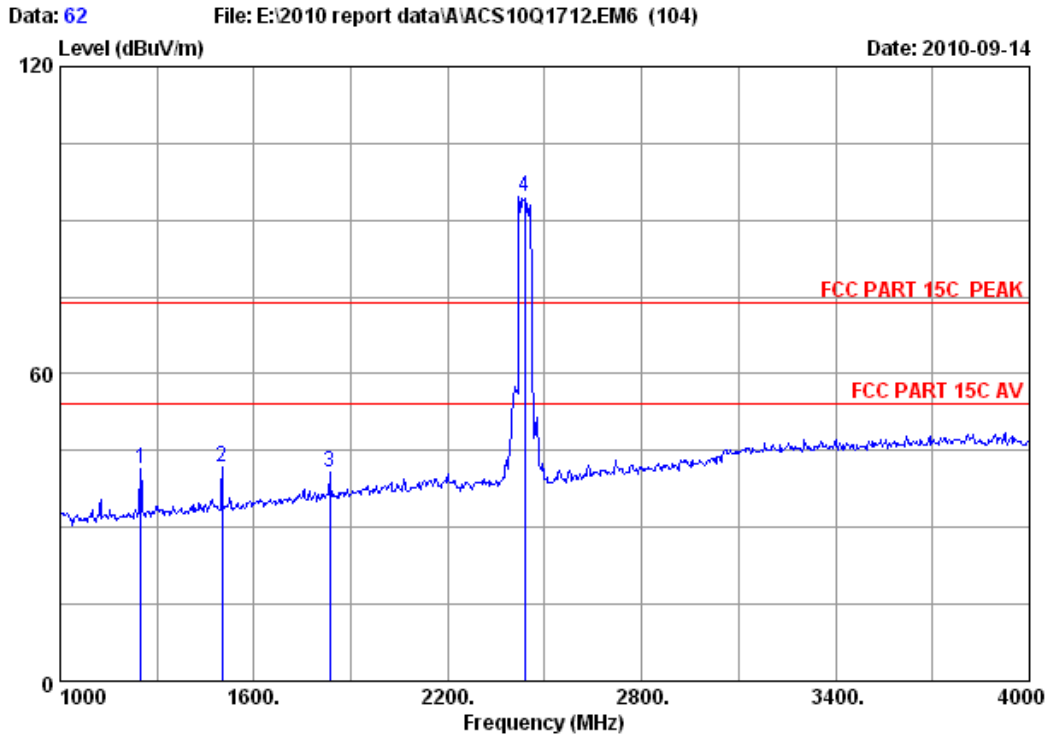
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Site no.      : 3m Chamber
Dis. / Ant.  : 3m 3115(0911)
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23°C/54%
EUT          : Wireless N 150 Router
Power        : DC 5V From Adapter input AC 120V/60Hz
Test mode    : IEEE802.11n HT40 CH4 2437MHz Tx
M/N         : DIR-524
Data no.     : 61
Ant. pol.    : VERTICAL
Engineer     : Sunny-lu
    
```

	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	1249.000	25.92	5.23	37.45	45.10	38.80	74.00	35.20	Peak
2	1501.000	26.40	5.73	37.00	47.45	42.58	74.00	31.42	Peak
3	1834.000	28.27	6.33	36.79	43.54	41.35	74.00	32.65	Peak
4	2437.000	29.47	7.46	36.61	102.77	103.09	74.00	-29.09	Peak

Remarks:

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

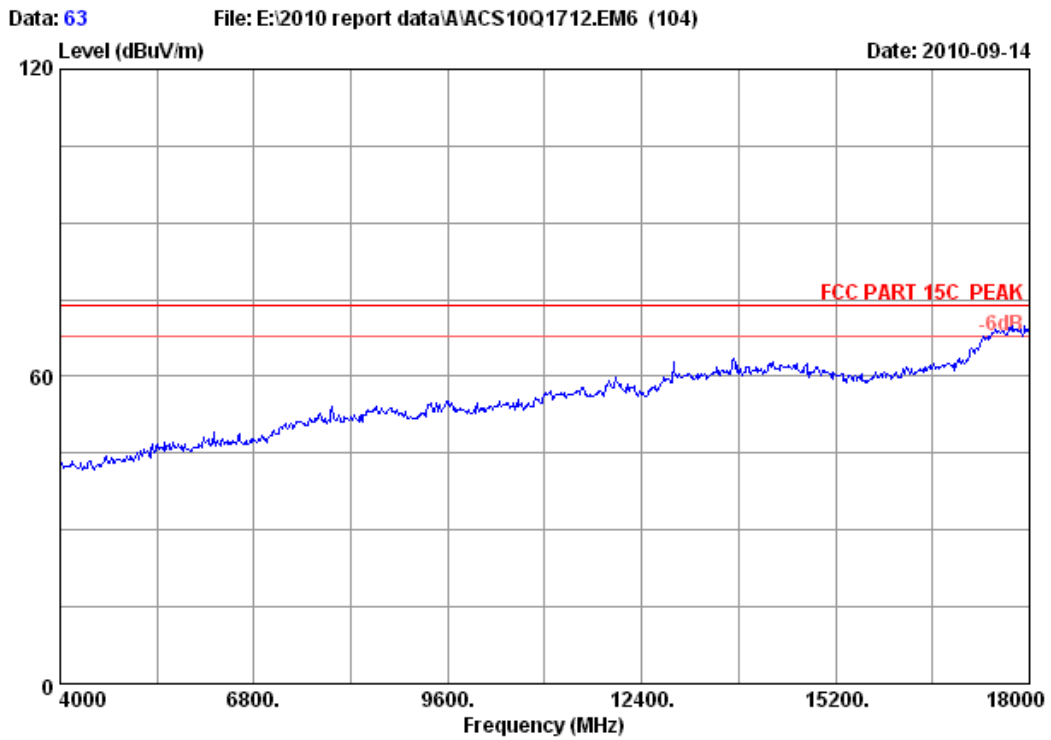


Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
 M/N : DIR-524

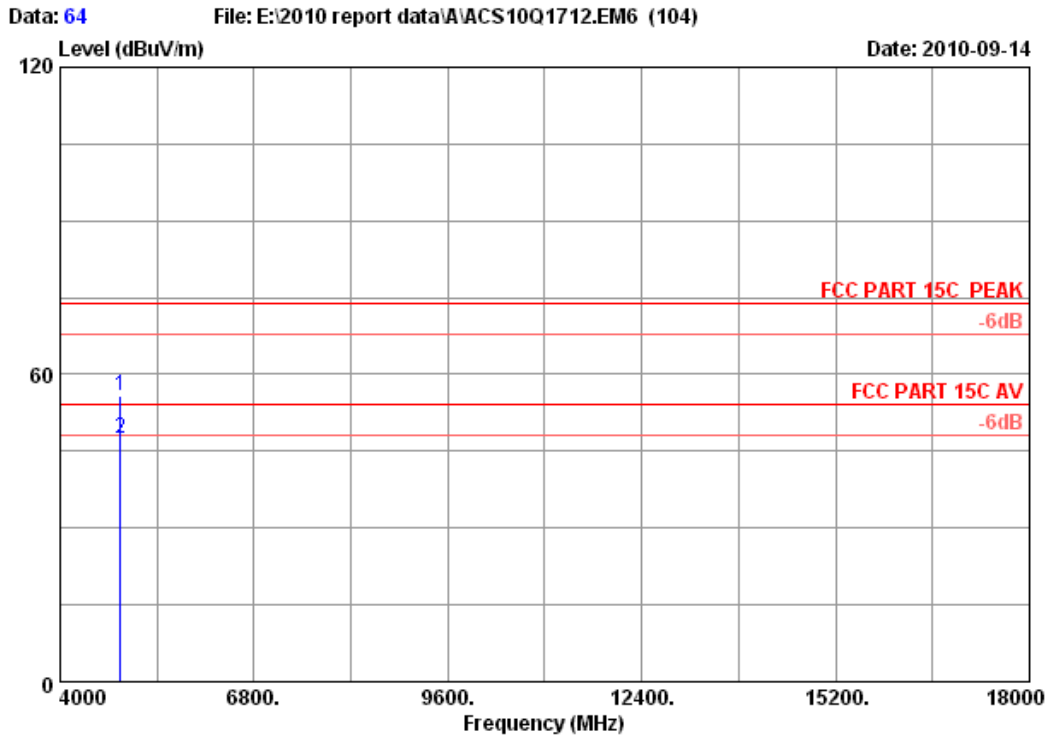
	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	1249.000	25.92	5.23	37.45	47.82	41.52	74.00	32.48	Peak
2	1501.000	26.40	5.73	37.00	46.49	41.62	74.00	32.38	Peak
3	1834.000	28.27	6.33	36.79	42.93	40.74	74.00	33.26	Peak
4	2437.000	29.47	7.46	36.61	94.18	94.50	74.00	-20.50	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. : 63
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
M/N : DIR-524

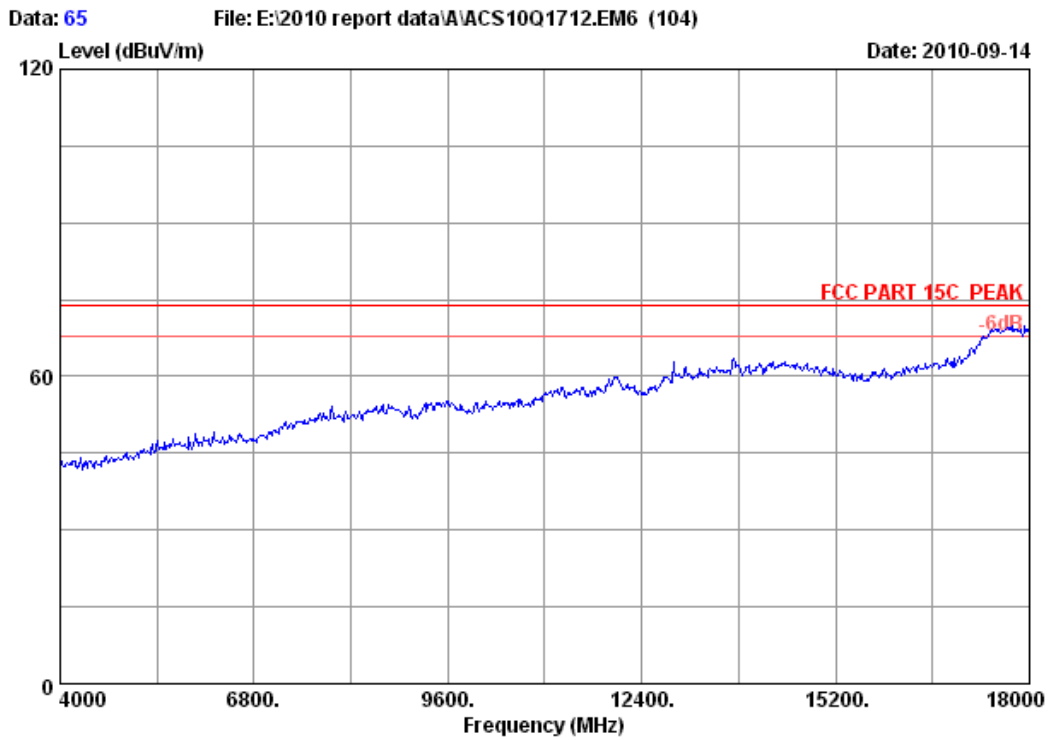


Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
 M/N : DIR-524

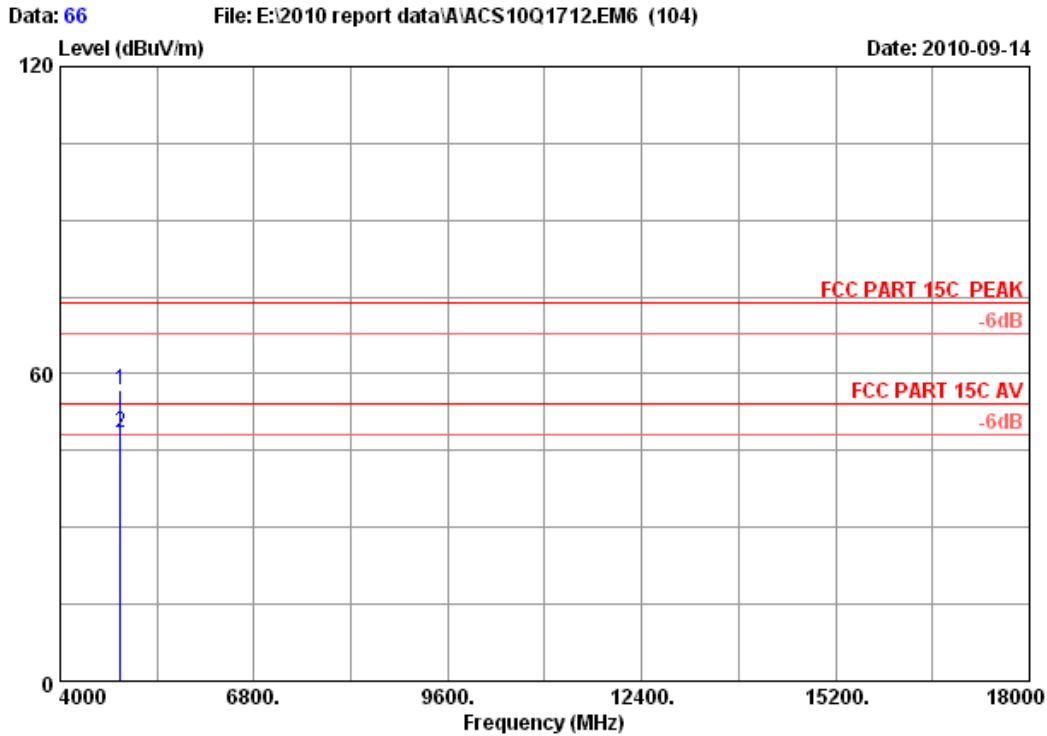
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	10.69	35.03	45.69	55.76	74.00	18.24	Peak
2	4874.000	34.41	10.69	35.03	37.47	47.54	54.00	6.46	Average

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. : 65
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
M/N : DIR-524

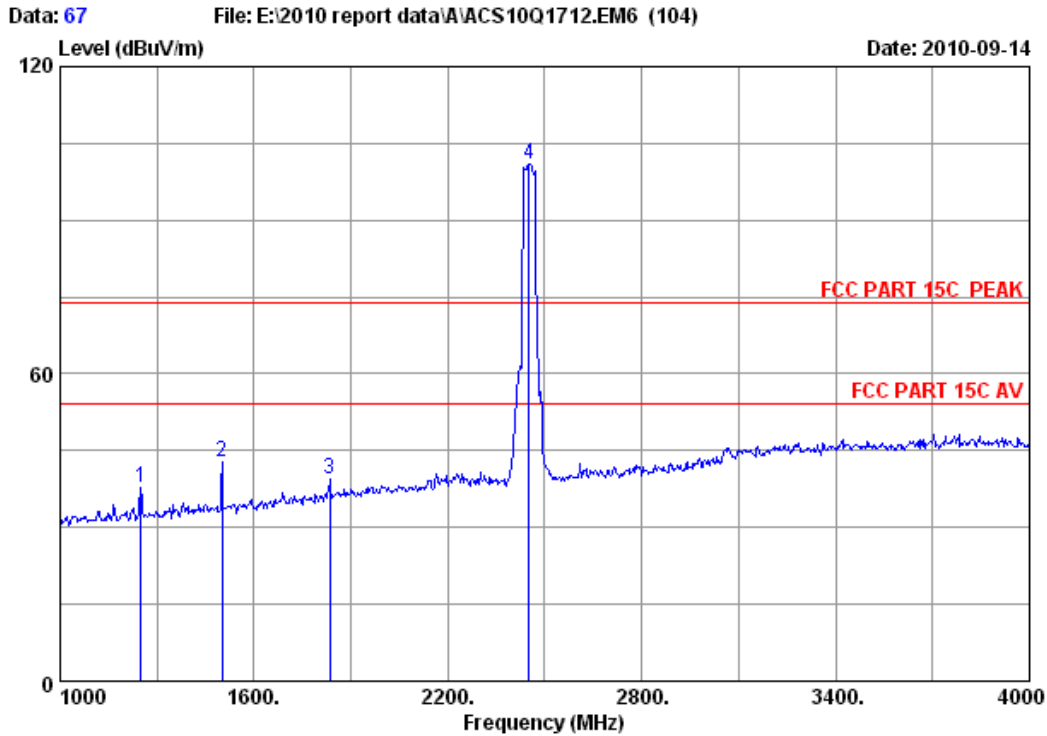


Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
 M/N : DIR-524

	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	46.87	56.94	74.00	17.06	Peak
2	4874.000	34.41	10.69	35.03	38.42	48.49	54.00	5.51	Average

Remarks:

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

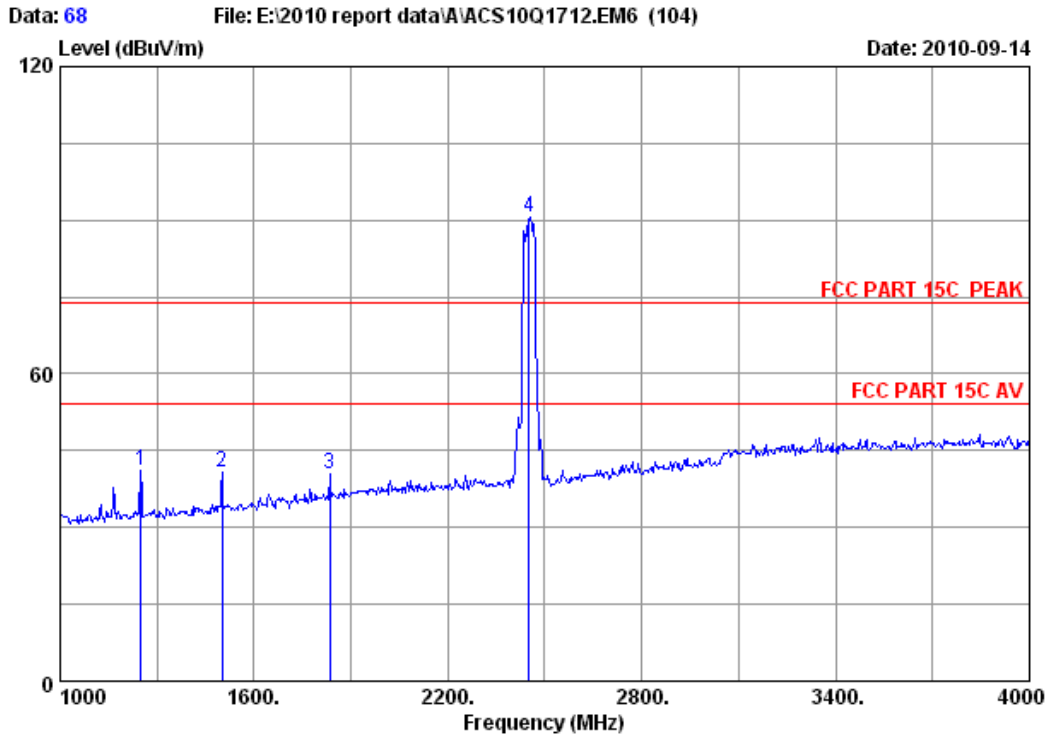


Site no. : 3m Chamber Data no. : 67
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : DIR-524

	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	1249.000	25.92	5.23	37.45	44.14	37.84	74.00	36.16	Peak
2	1501.000	26.40	5.73	37.00	47.56	42.69	74.00	31.31	Peak
3	1834.000	28.27	6.33	36.79	41.65	39.46	74.00	34.54	Peak
4	2452.000	29.47	7.50	36.61	100.50	100.86	74.00	-26.86	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.

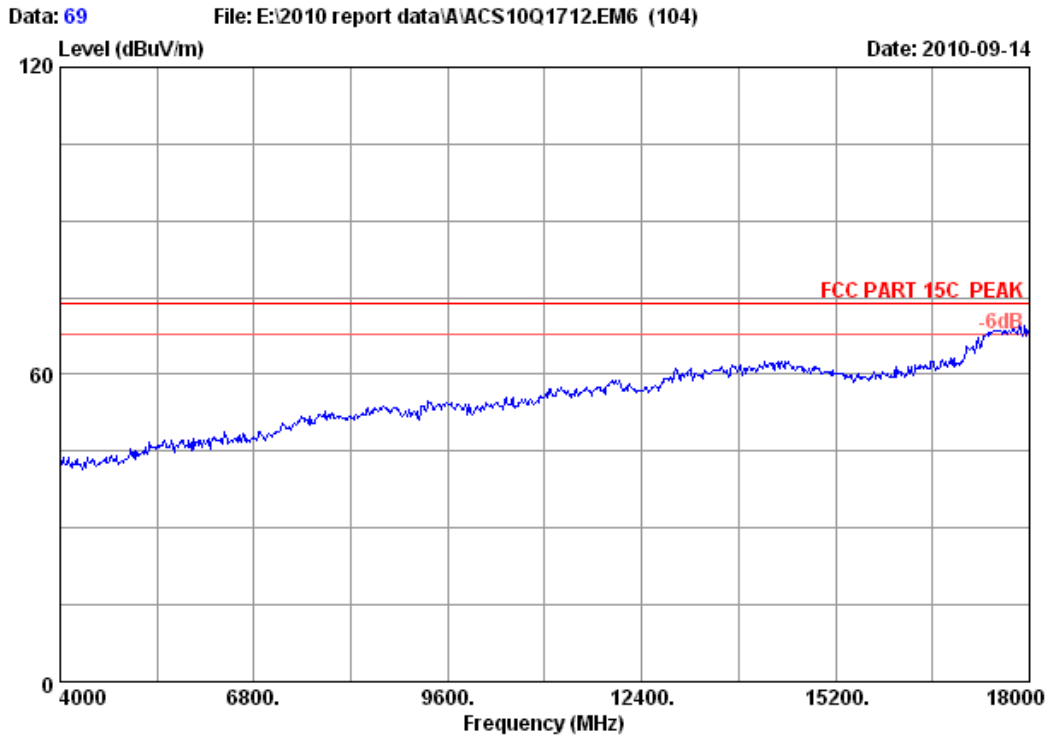


Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : DIR-524

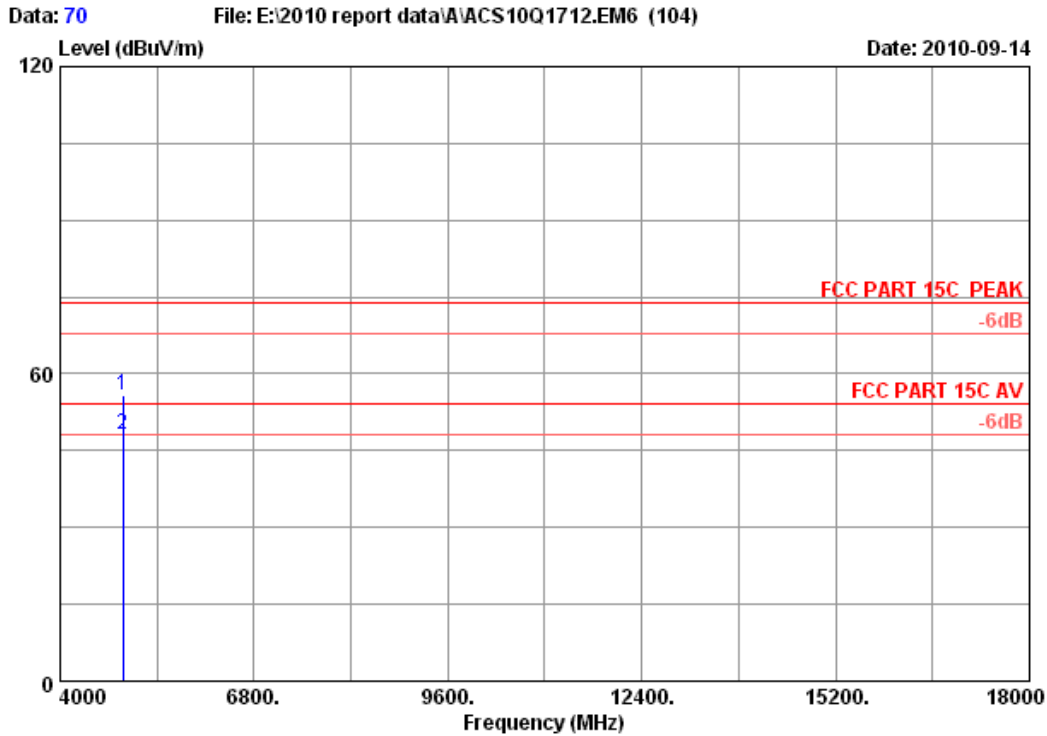
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1249.000	25.92	5.23	37.45	47.38	41.08	74.00	32.92	Peak
2	1501.000	26.40	5.73	37.00	45.71	40.84	74.00	33.16	Peak
3	1834.000	28.27	6.33	36.79	42.51	40.32	74.00	33.68	Peak
4	2452.000	29.47	7.50	36.61	90.08	90.44	74.00	-16.44	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.	: 69
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: Wireless N 150 Router		
Power	: DC 5V From Adapter input AC 120V/60Hz		
Test mode	: IEEE802.11n HT40 CH7 2452MHz Tx		
M/N	: DIR-524		

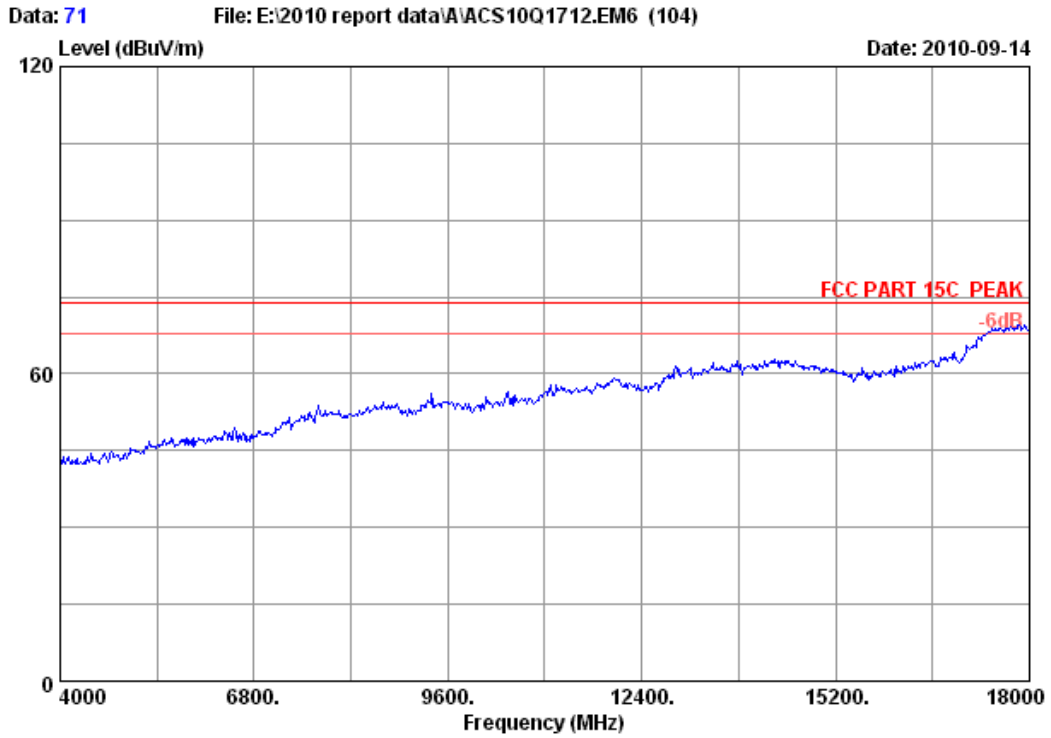


Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : DIR-524

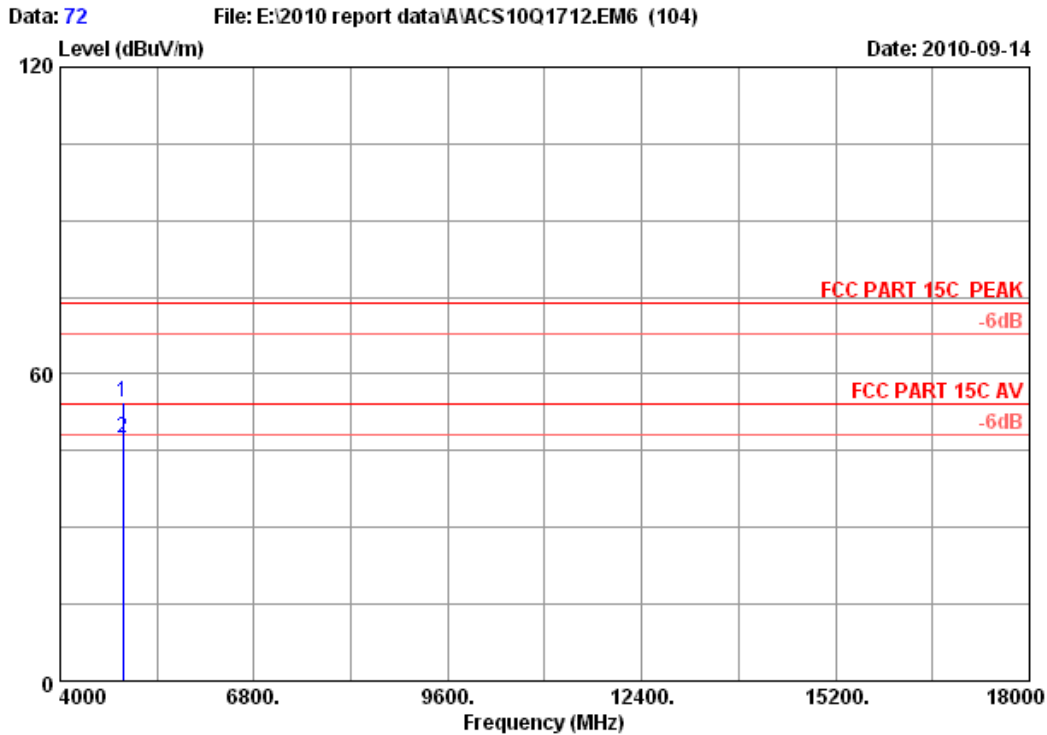
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4904.000	34.46	10.74	35.00	45.51	55.71	74.00	18.29	Peak
2	4904.000	34.46	10.74	35.00	37.95	48.15	54.00	5.85	Average

Remarks:

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



Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Sunny-lu
EUT : Wireless N 150 Router
Power : DC 5V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
M/N : DIR-524



Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : DIR-524

	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	4904.000	34.46	10.74	35.00	44.20	54.40	74.00	19.60	Peak
2	4904.000	34.46	10.74	35.00	37.18	47.38	54.00	6.62	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

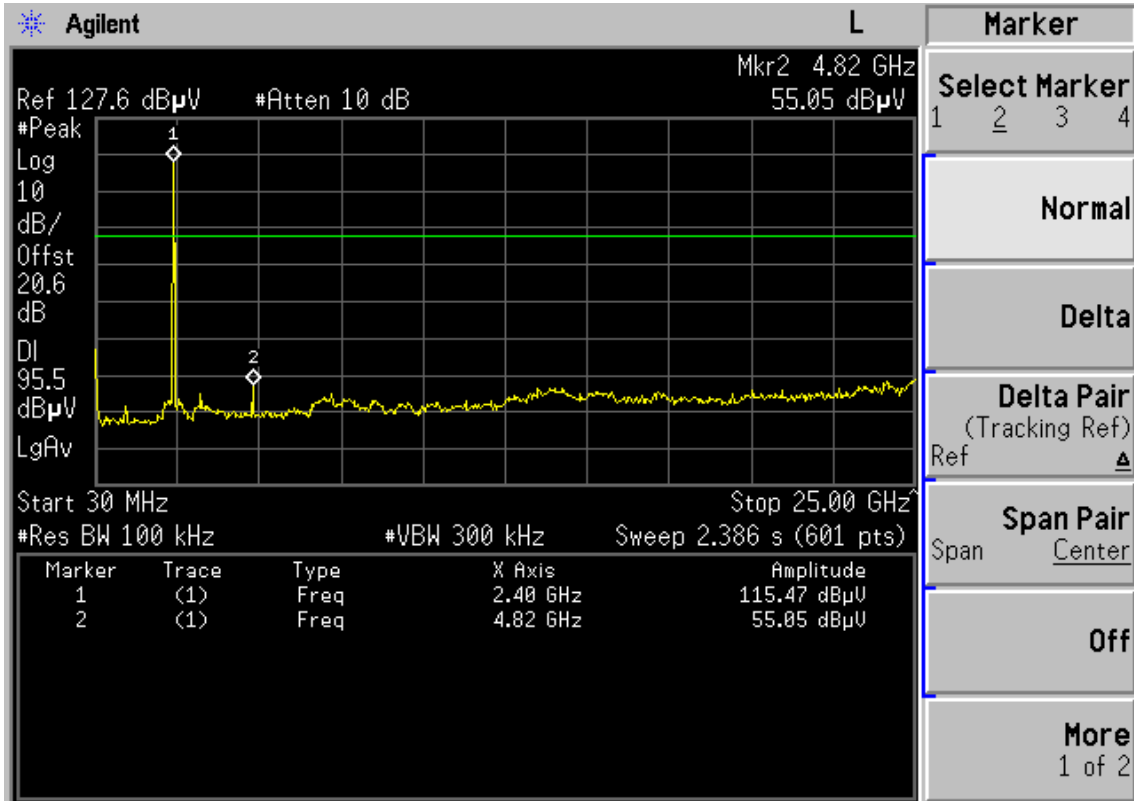
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

5.4. Test result

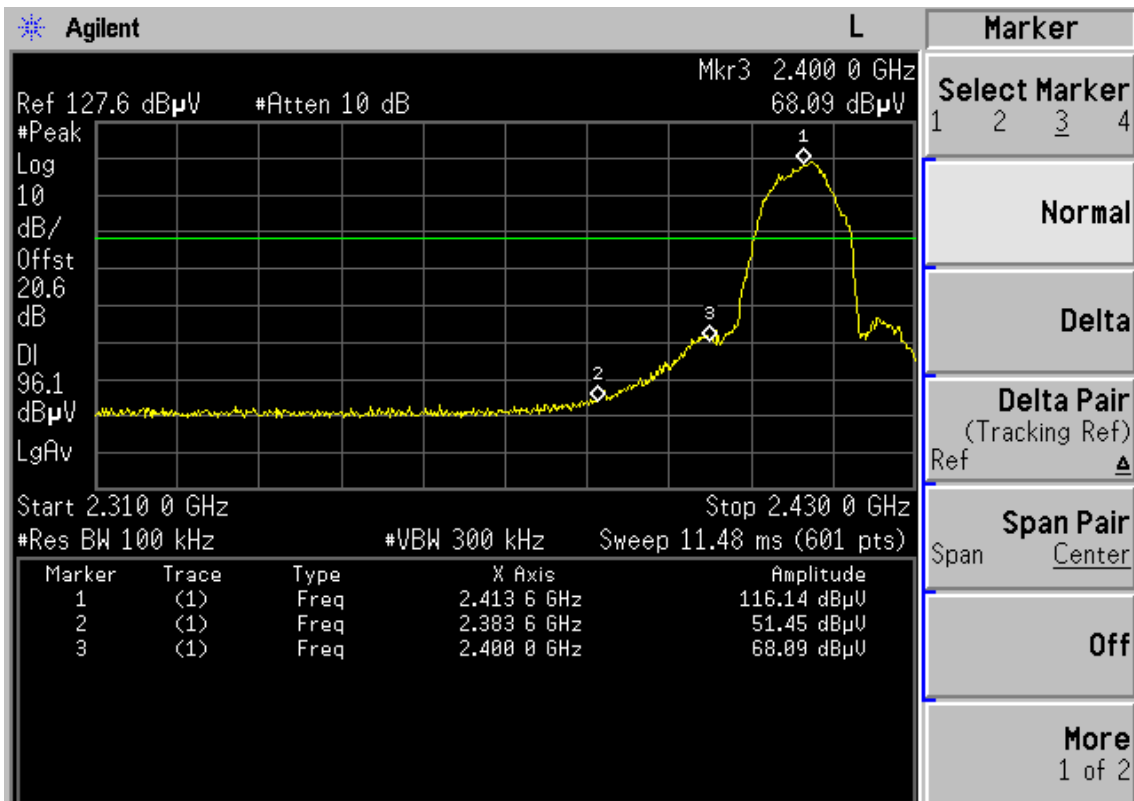
PASS (The testing data was attached in the next pages.)

Conducted emission test data:

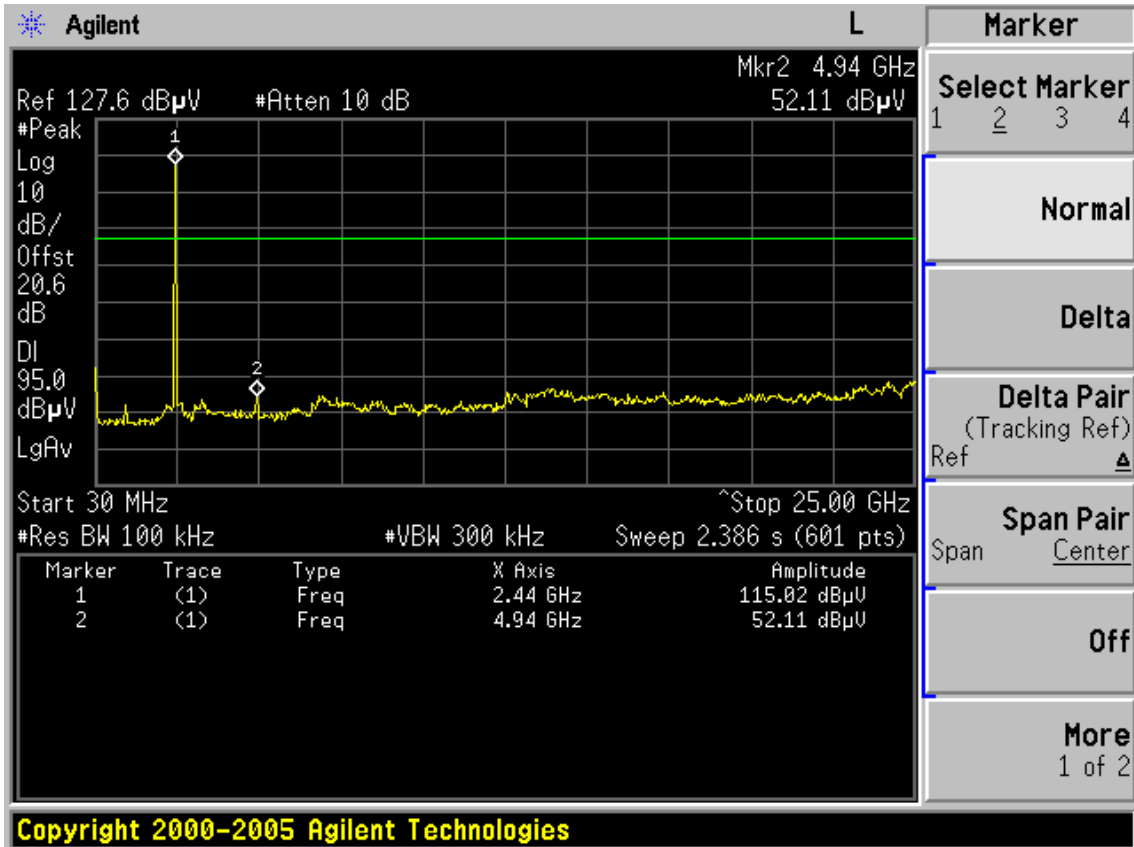
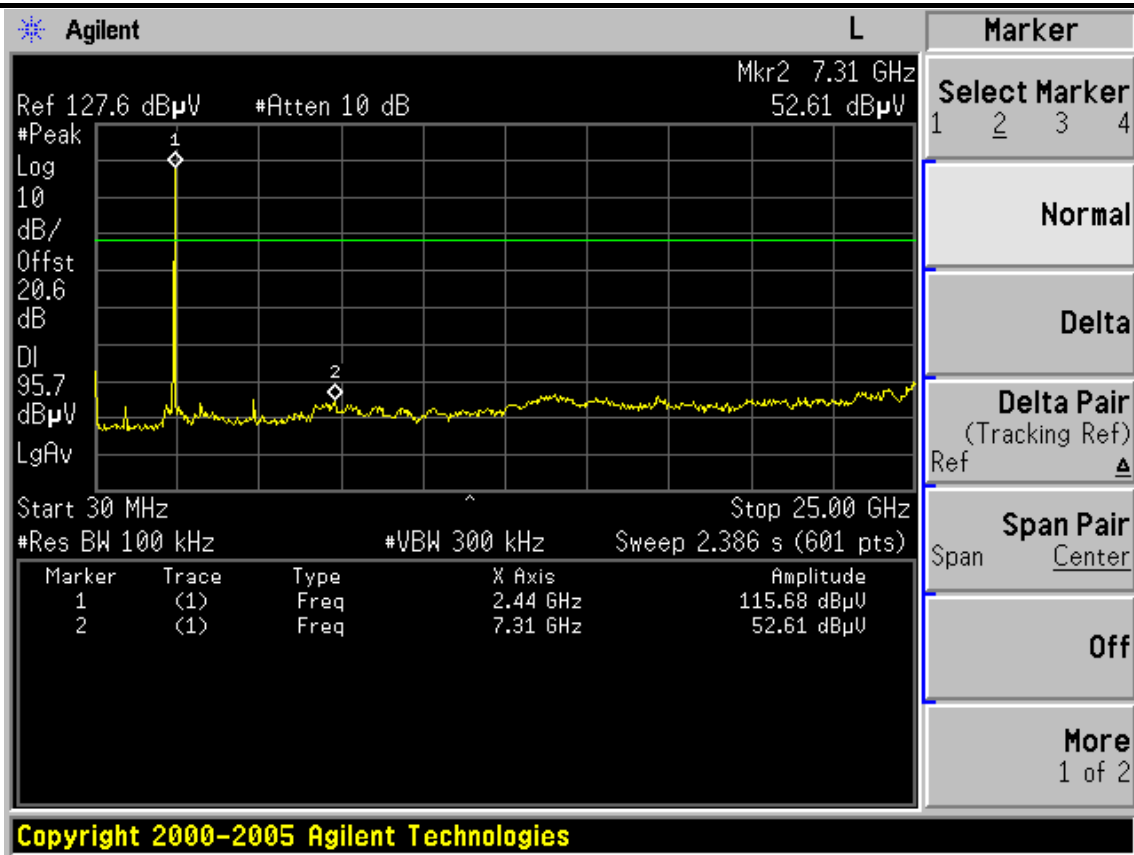
Test Mode: IEEE 802.11b TX

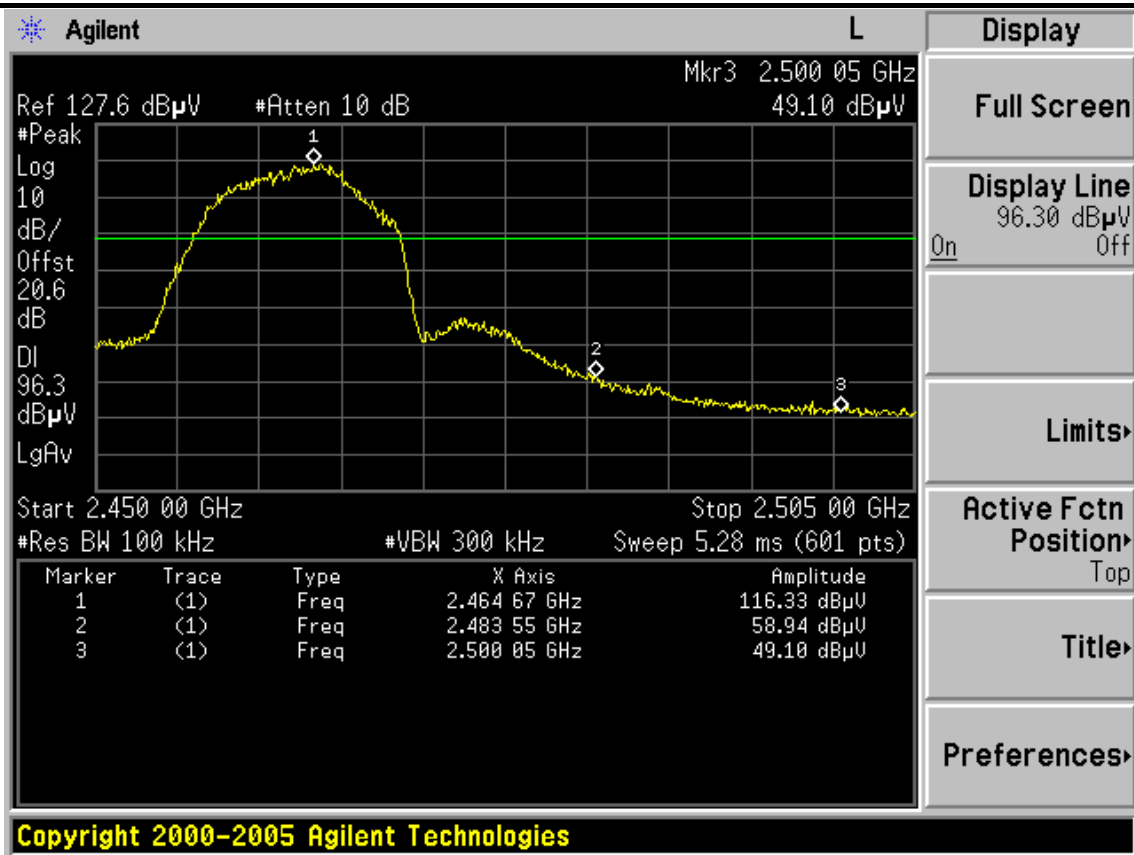


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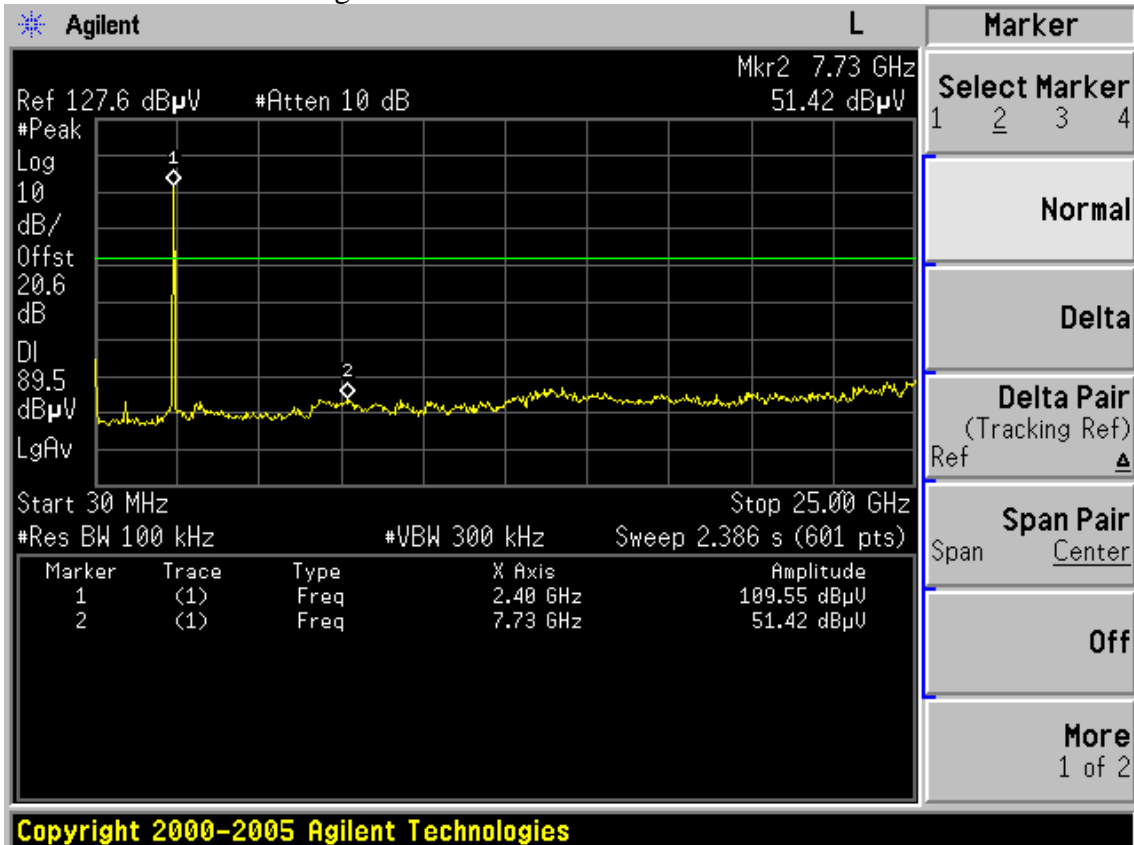


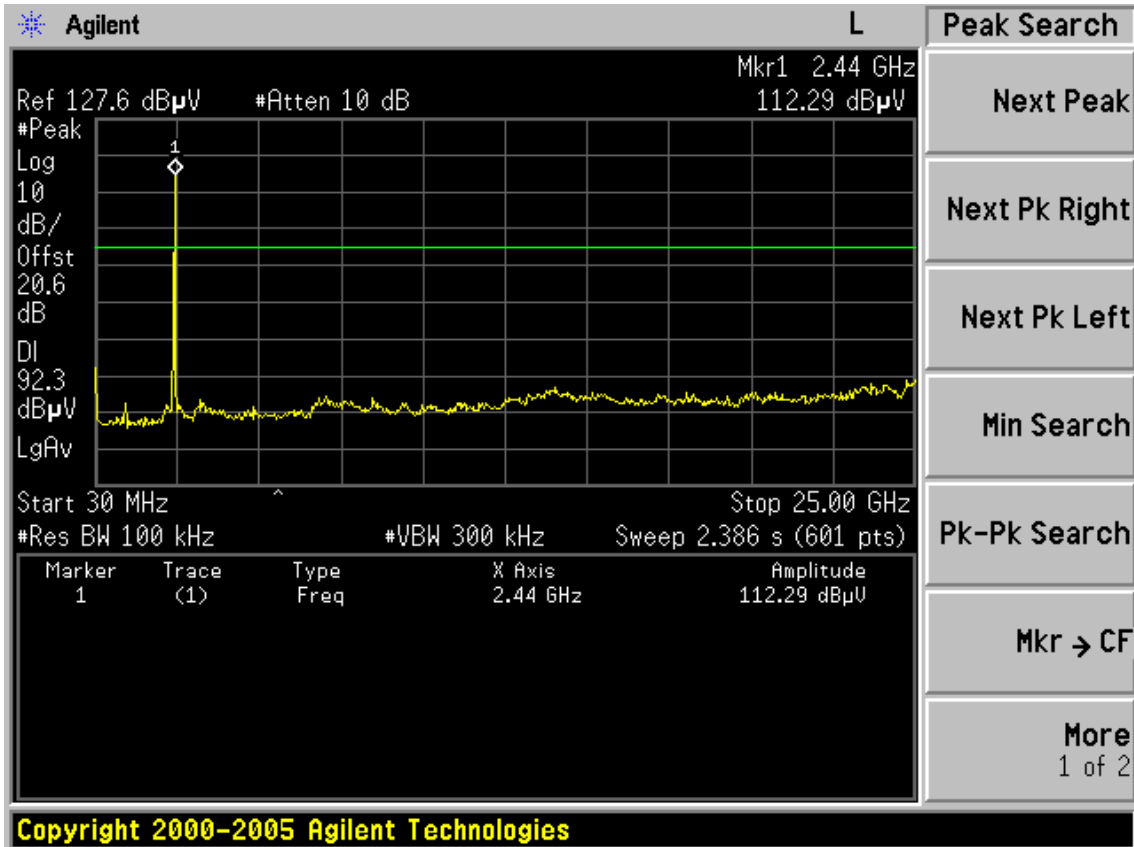
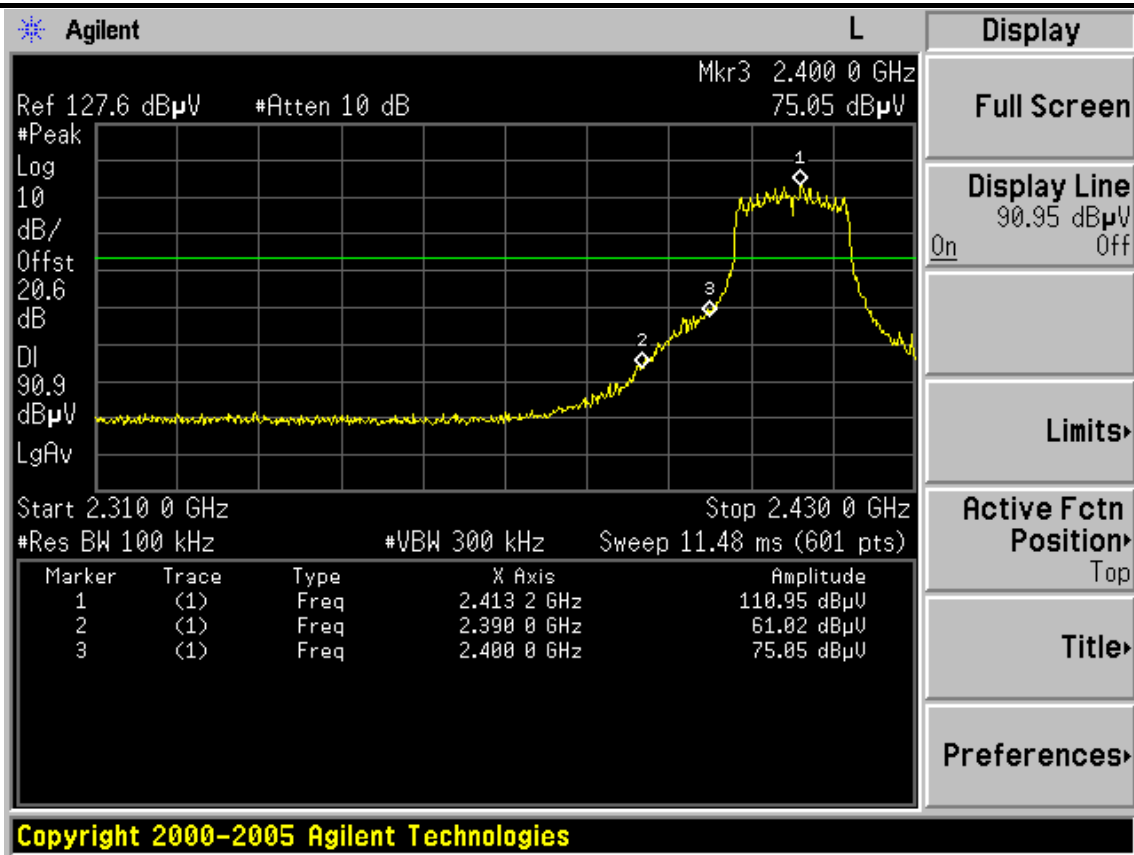
Copyright 2000-2005 Agilent Technologies

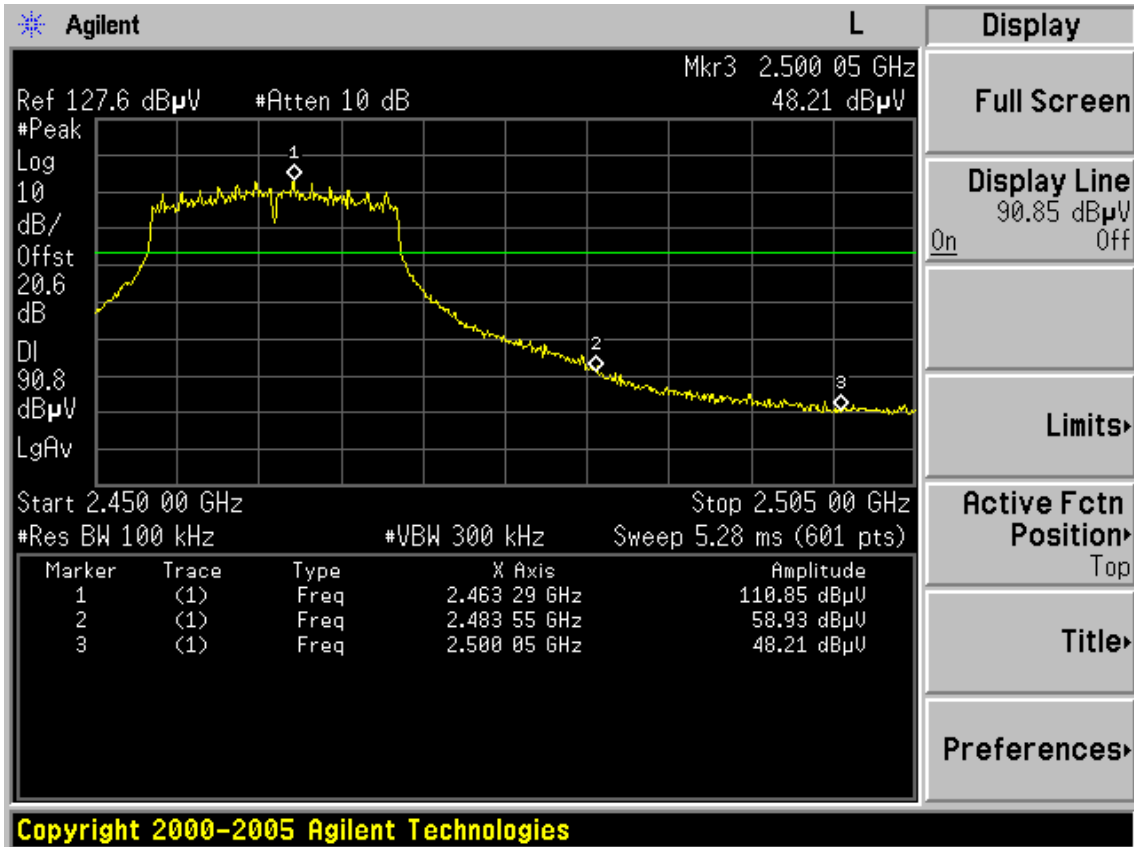
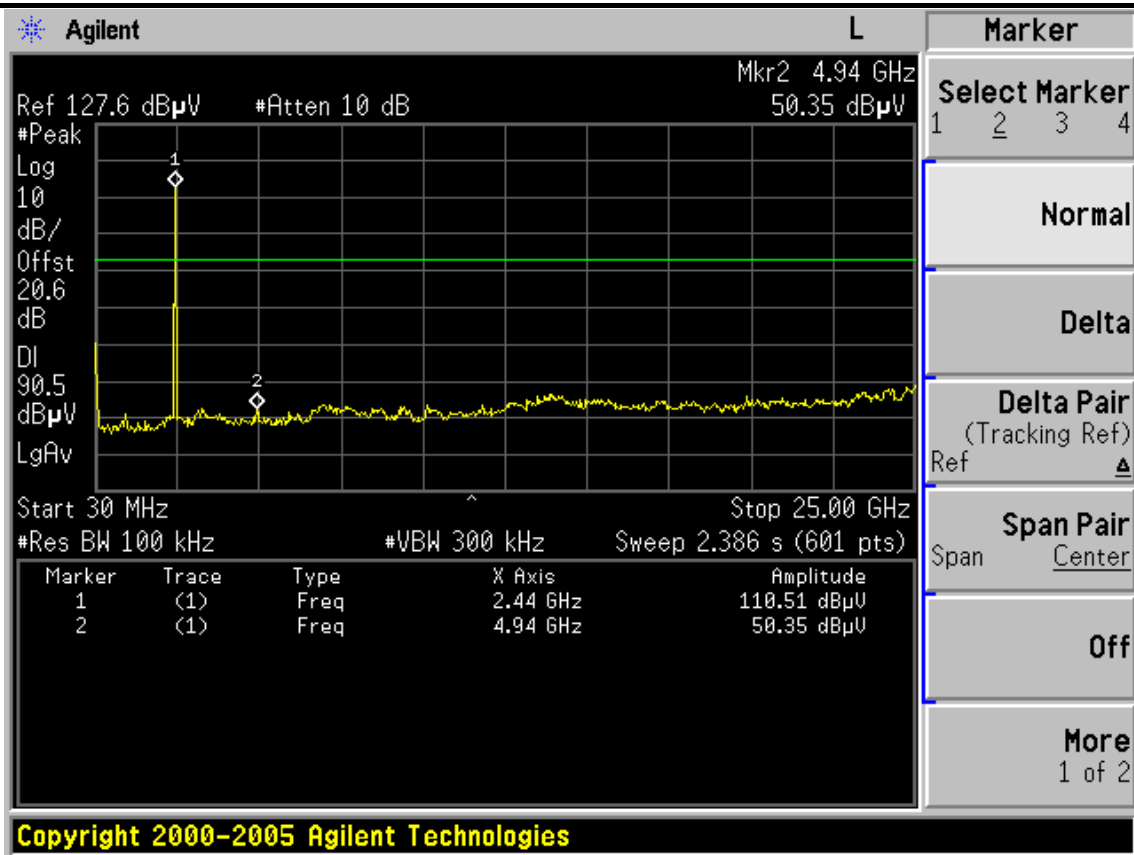




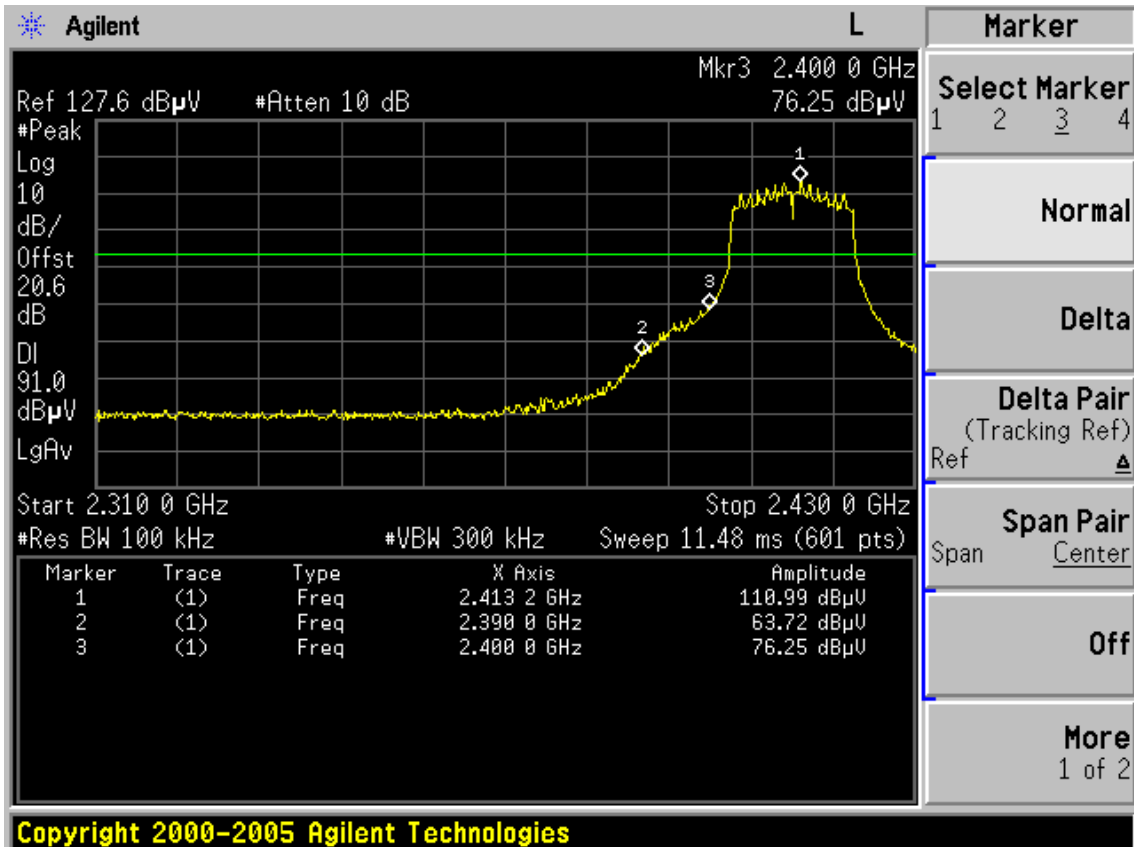
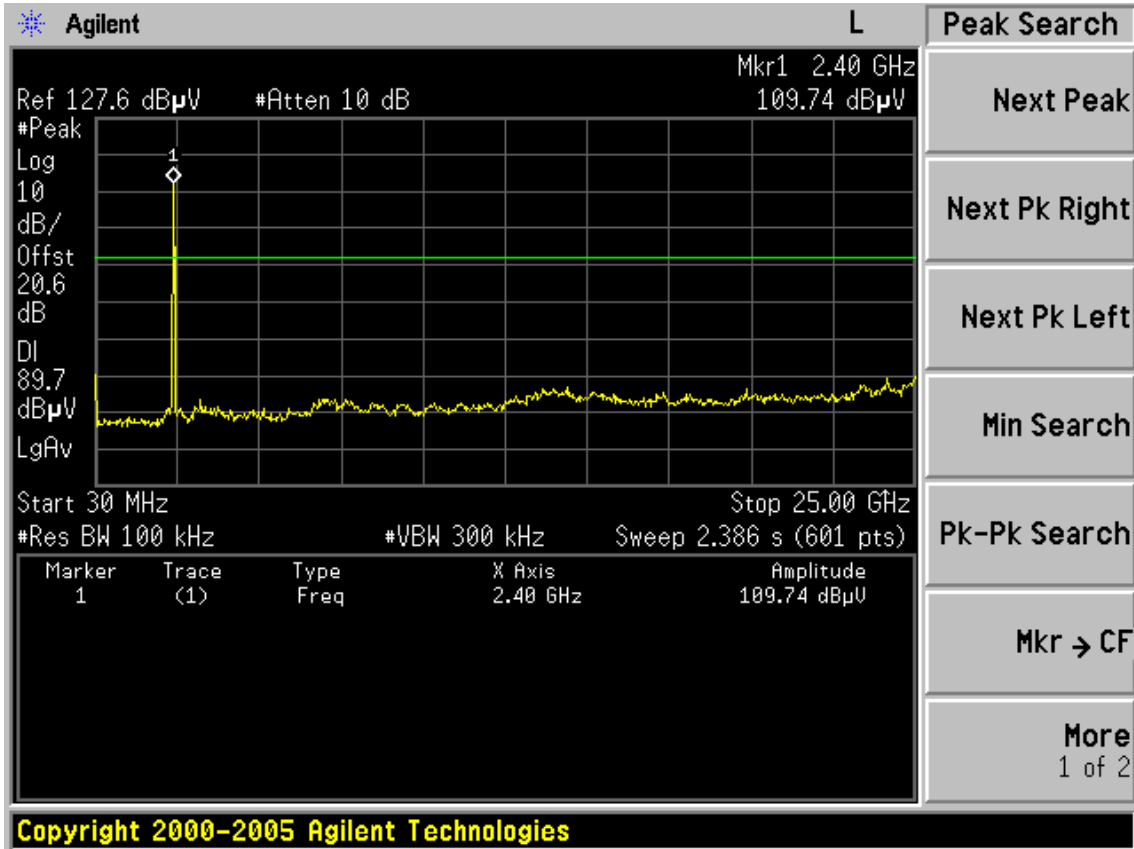
Test Mode: IEEE 802.11g TX

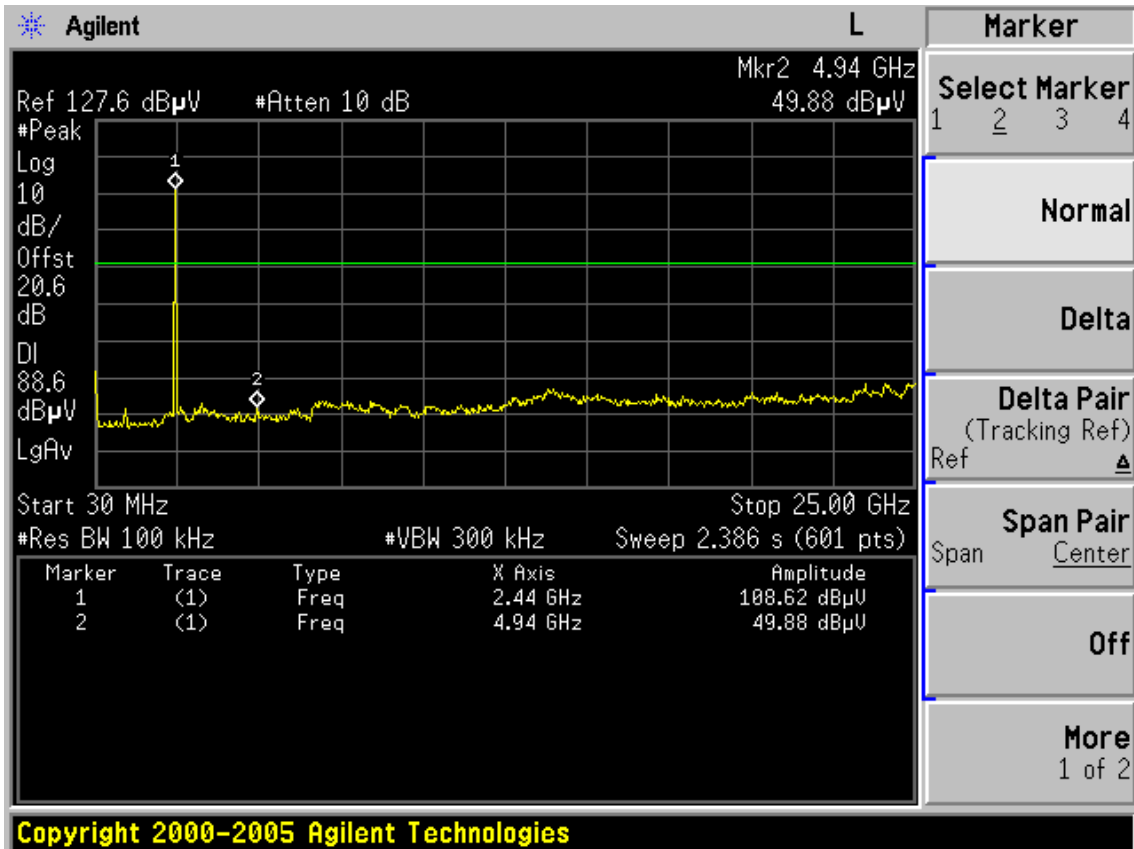
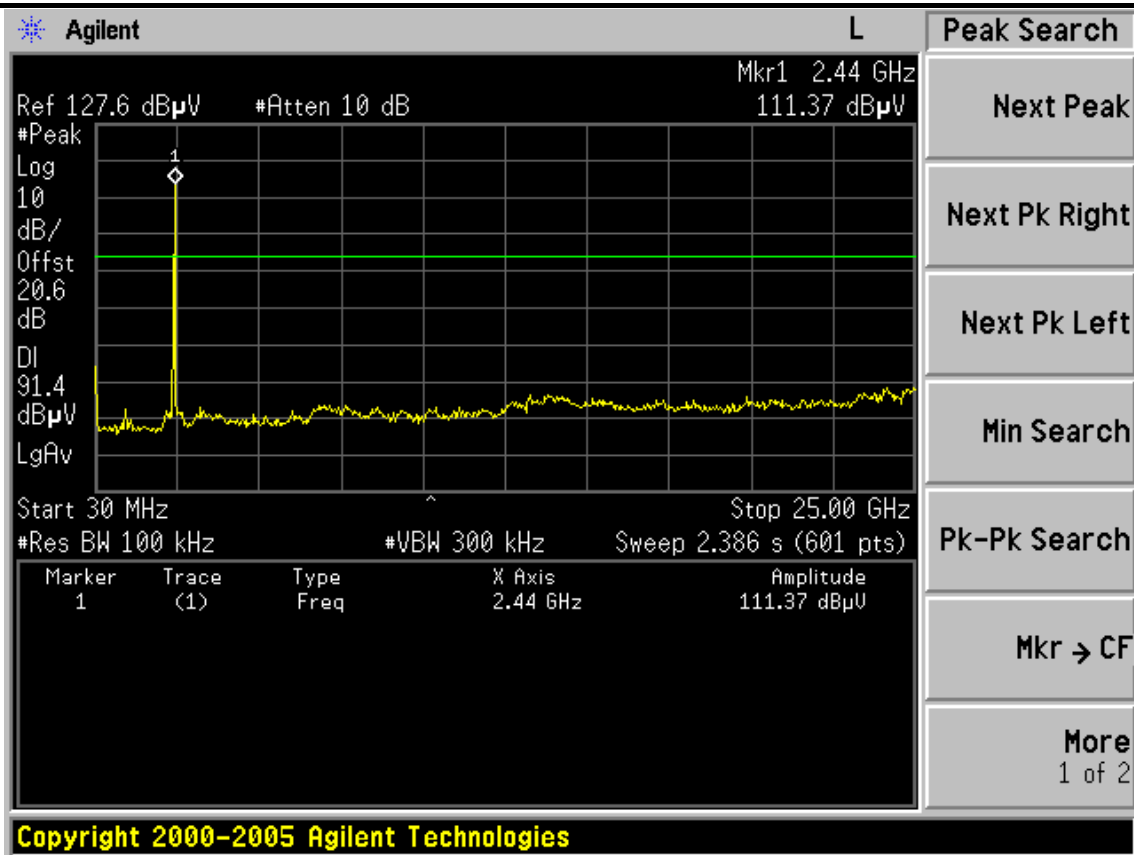


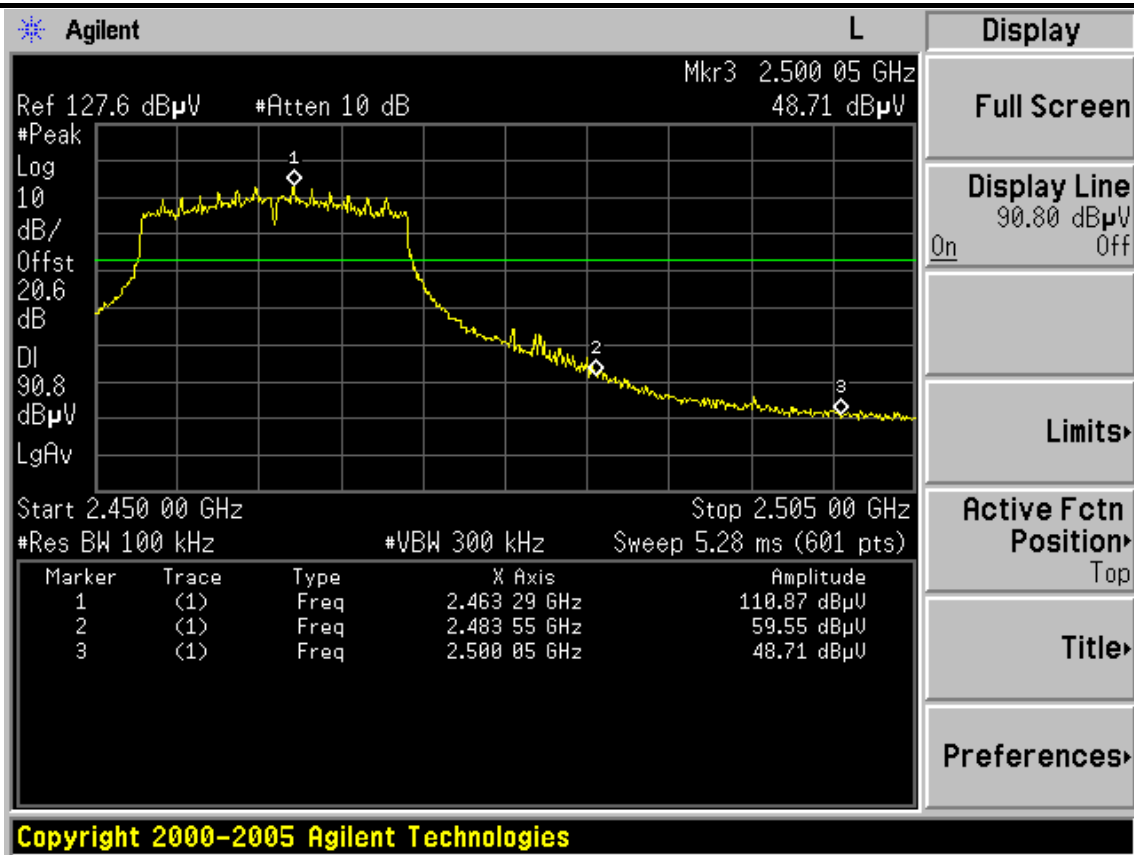




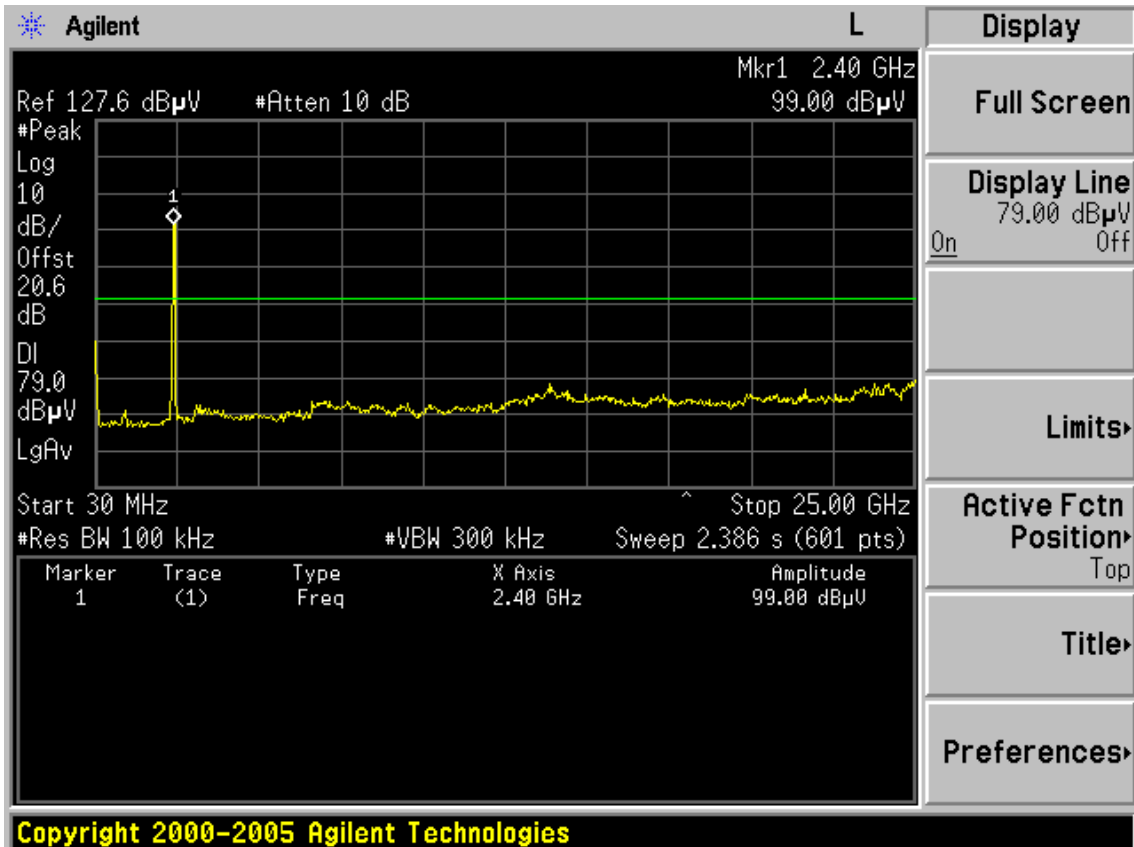
Test Mode: IEEE 802.11n HT20 TX

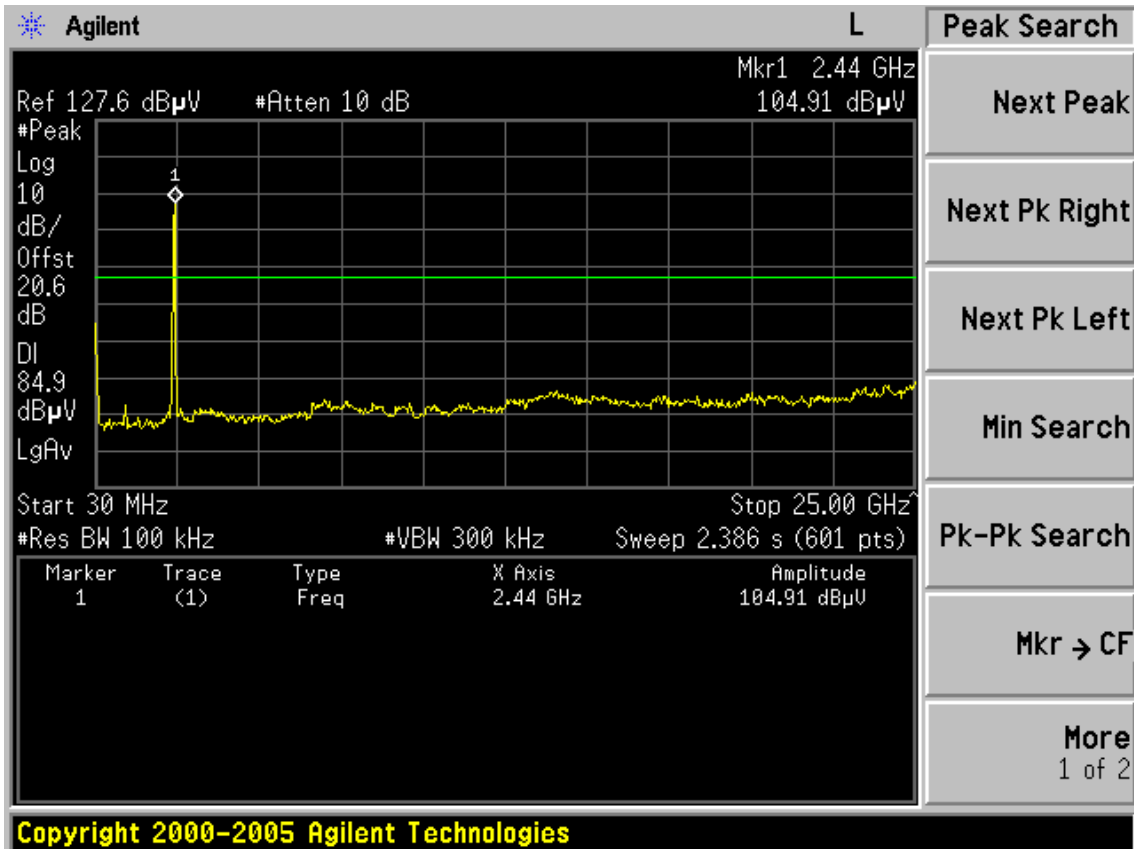
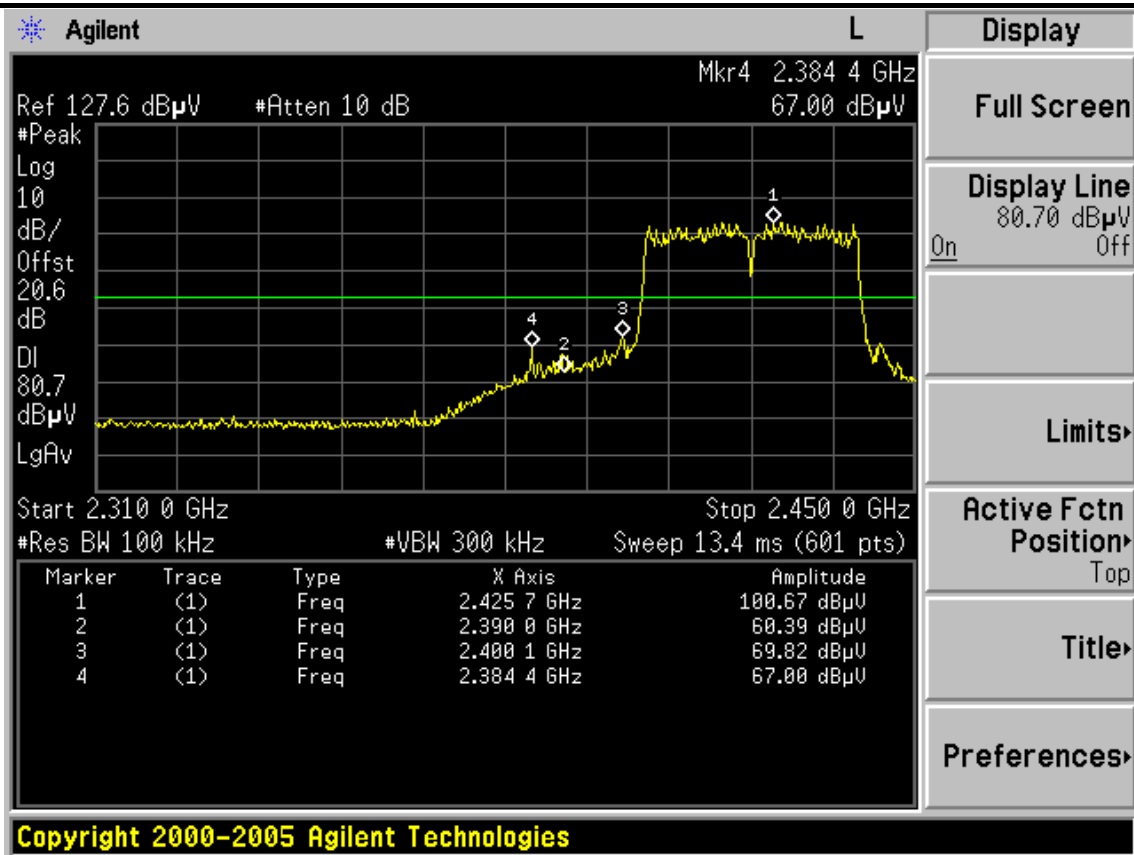


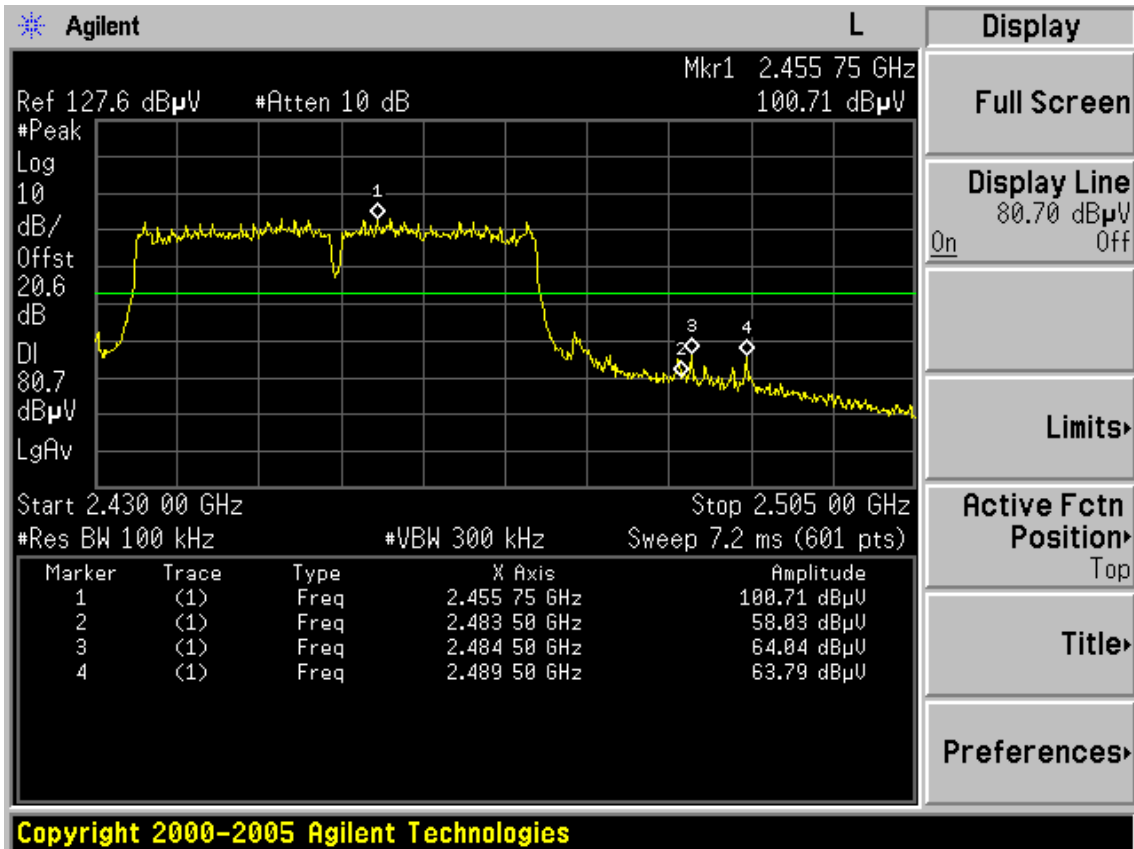
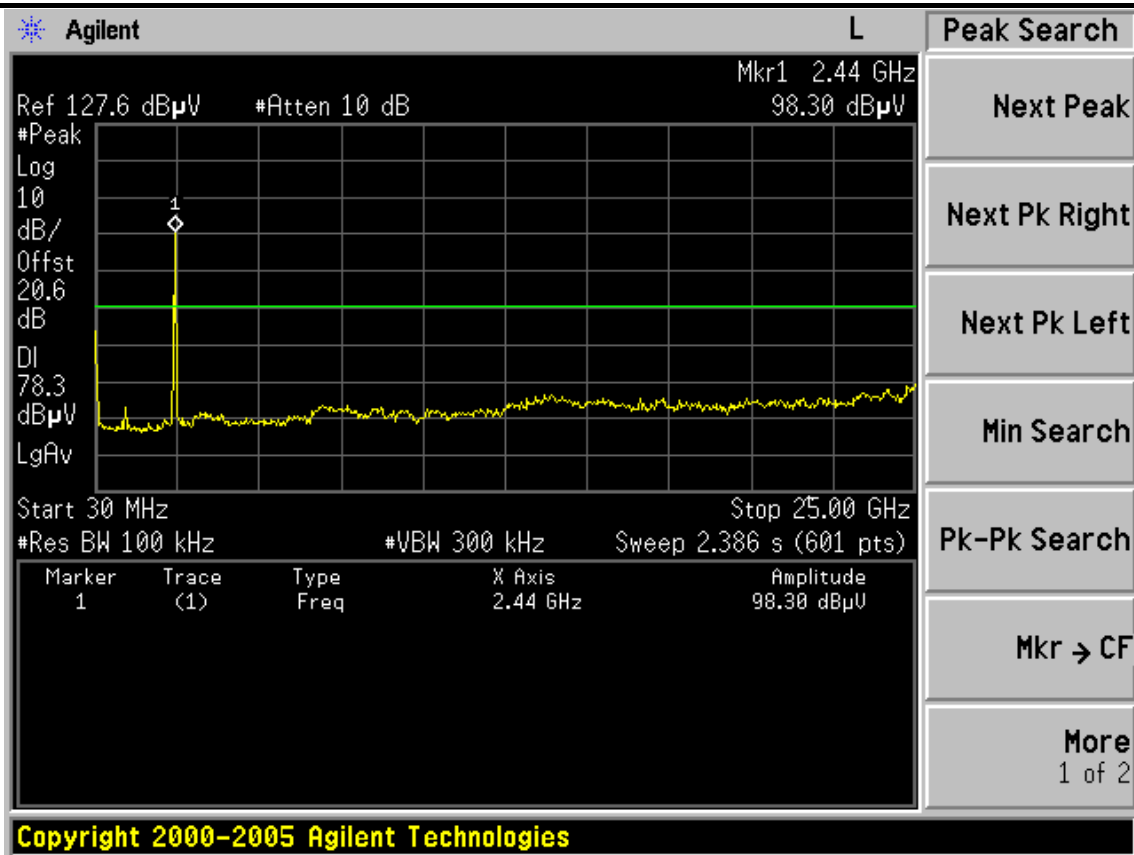




Test Mode: IEEE 802.11n HT40 TX







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

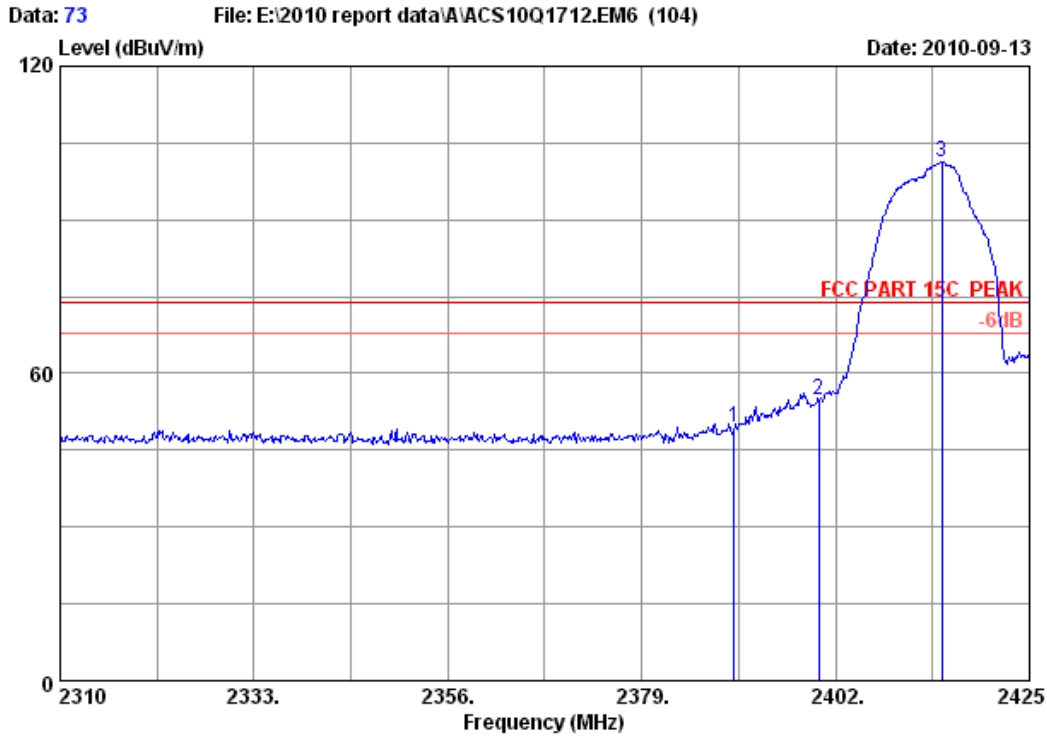
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental 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 upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz ;Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz ;VBW=10Hz ; Sweep=AUTO

6.4. Test Results

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

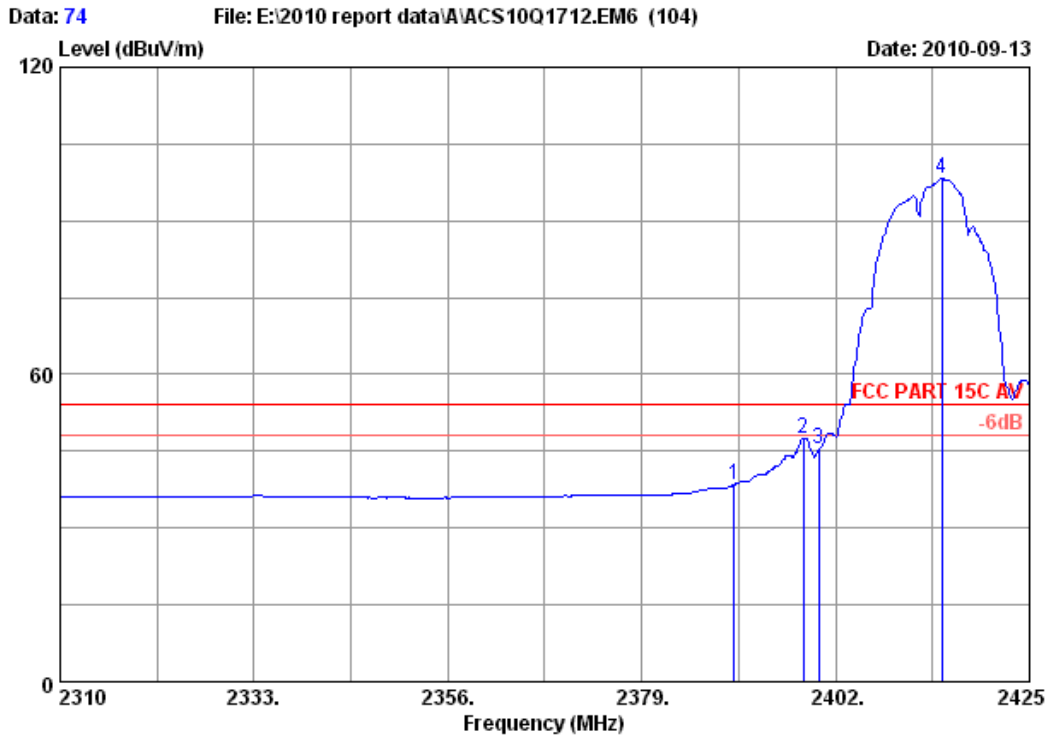


Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : DIR-524

	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	49.11	49.32	74.00	24.68	Peak
2	2400.000	29.44	7.43	36.62	54.65	54.90	74.00	19.10	Peak
3	2414.650	29.45	7.43	36.62	101.07	101.33	74.00	-27.33	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.

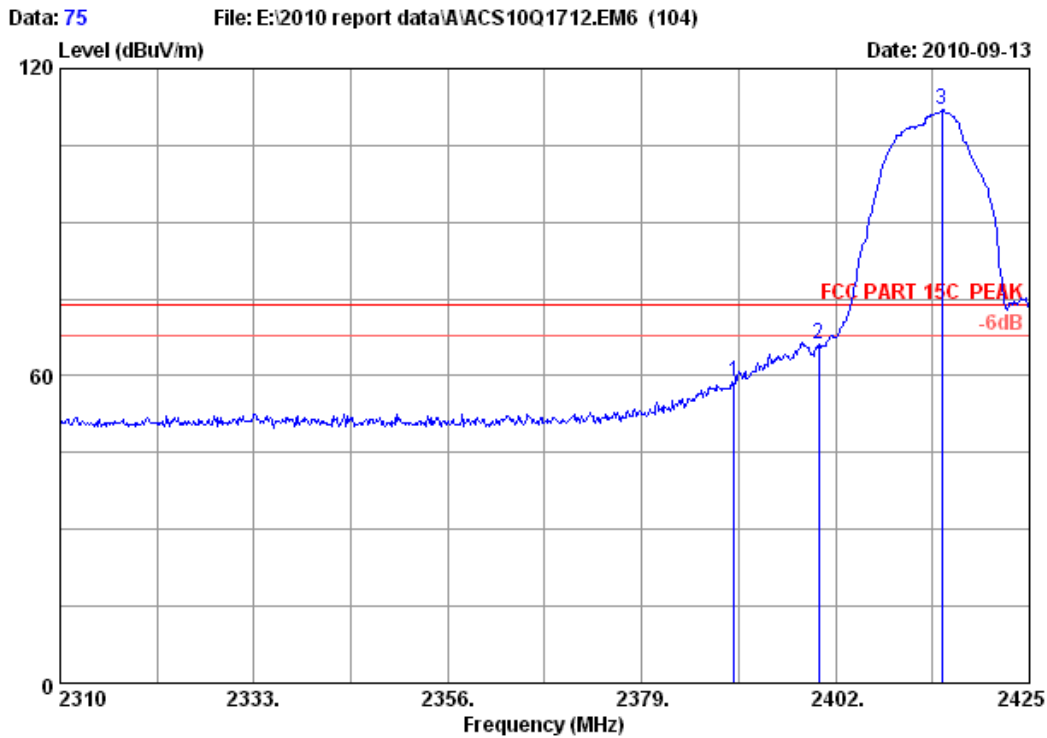


Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : DIR-524

	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	38.32	38.53	54.00	15.47	Average
2	2398.205	29.44	7.39	36.62	47.42	47.63	54.00	6.37	Average
3	2400.000	29.44	7.43	36.62	45.33	45.58	54.00	8.42	Average
4	2414.650	29.45	7.43	36.62	98.00	98.26	54.00	-44.26	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.

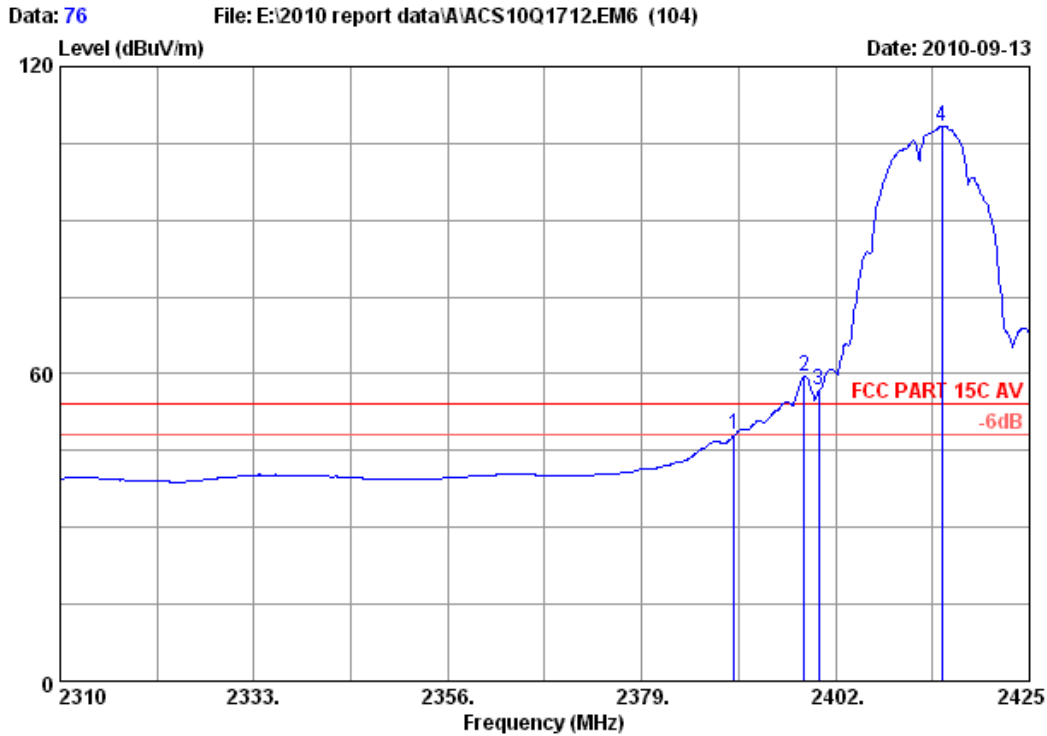


Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : DIR-524

	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	58.69	58.90	74.00	15.10	Peak
2	2400.000	29.44	7.43	36.62	65.99	66.24	74.00	7.76	Peak
3	2414.650	29.45	7.43	36.62	111.59	111.85	74.00	-37.85	Peak

Remarks:

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

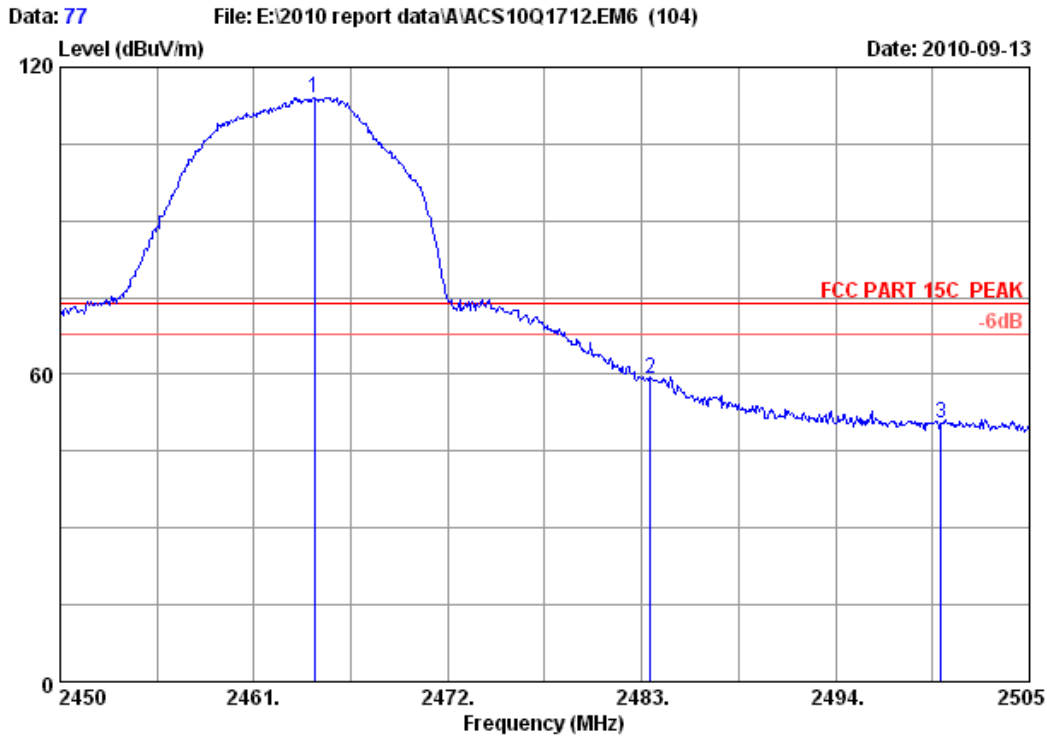


Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : DIR-524

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2390.000	29.44	7.39	36.62	47.90	48.11	54.00	5.89	Average	
2 2398.320	29.44	7.39	36.62	59.27	59.48	54.00	-5.48	Average	
3 2400.000	29.44	7.43	36.62	56.54	56.79	54.00	-2.79	Average	
4 2414.650	29.45	7.43	36.62	108.20	108.46	54.00	-54.46	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.

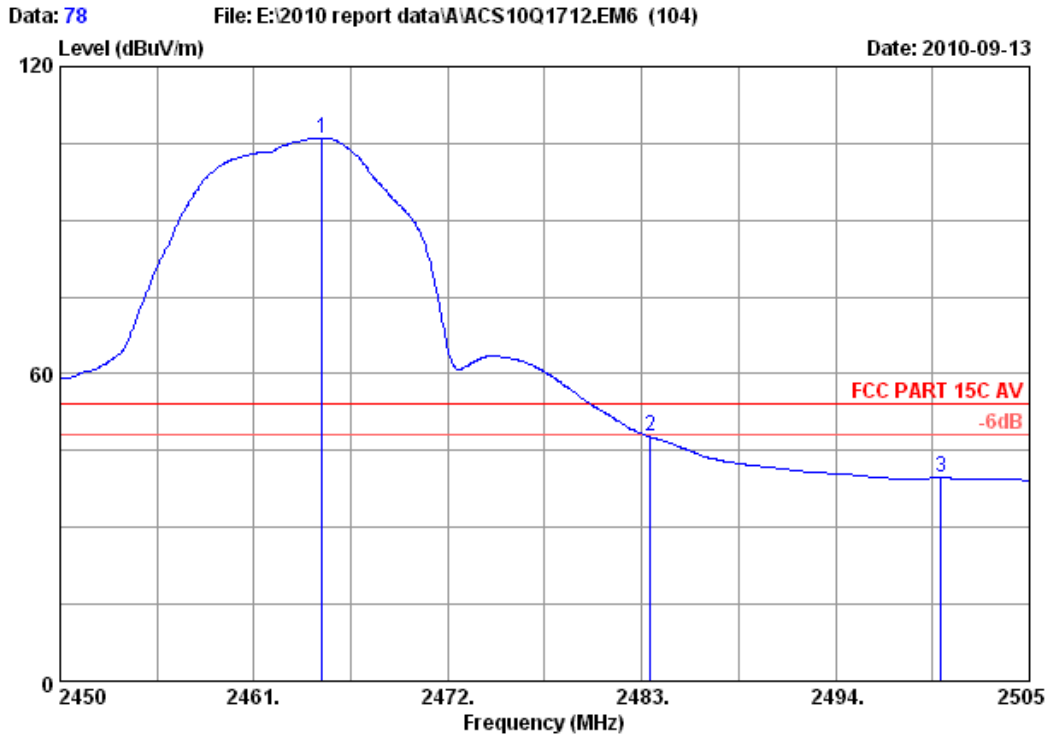


Site no. : 3m Chamber Data no. : 77
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : DIR-524

	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	2464.410	29.48	7.54	36.61	113.73	114.14	74.00	-40.14	Peak
2	2483.500	29.49	7.58	36.60	58.86	59.33	74.00	14.67	Peak
3	2500.000	29.50	7.62	36.60	49.90	50.42	74.00	23.58	Peak

Remarks:

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

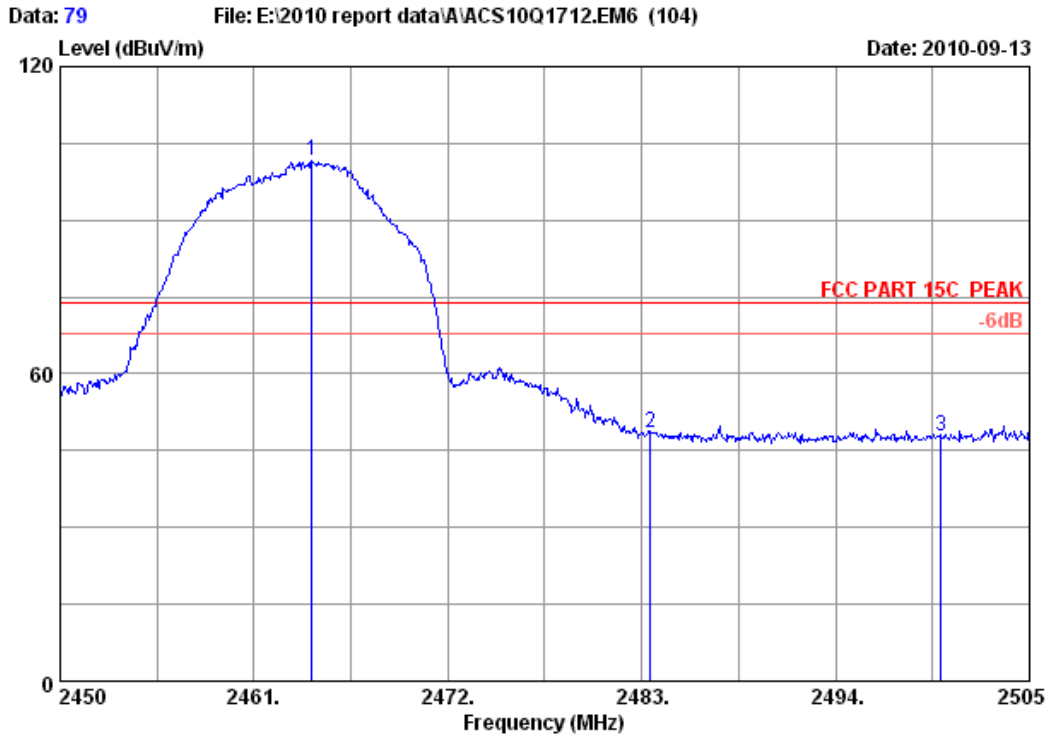


Site no. : 3m Chamber Data no. : 78
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : DIR-524

	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	2464.850	29.48	7.54	36.61	105.70	106.11	54.00	-52.11	Average
2	2483.500	29.49	7.58	36.60	47.19	47.66	54.00	6.34	Average
3	2500.000	29.50	7.62	36.60	39.35	39.87	54.00	14.13	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.

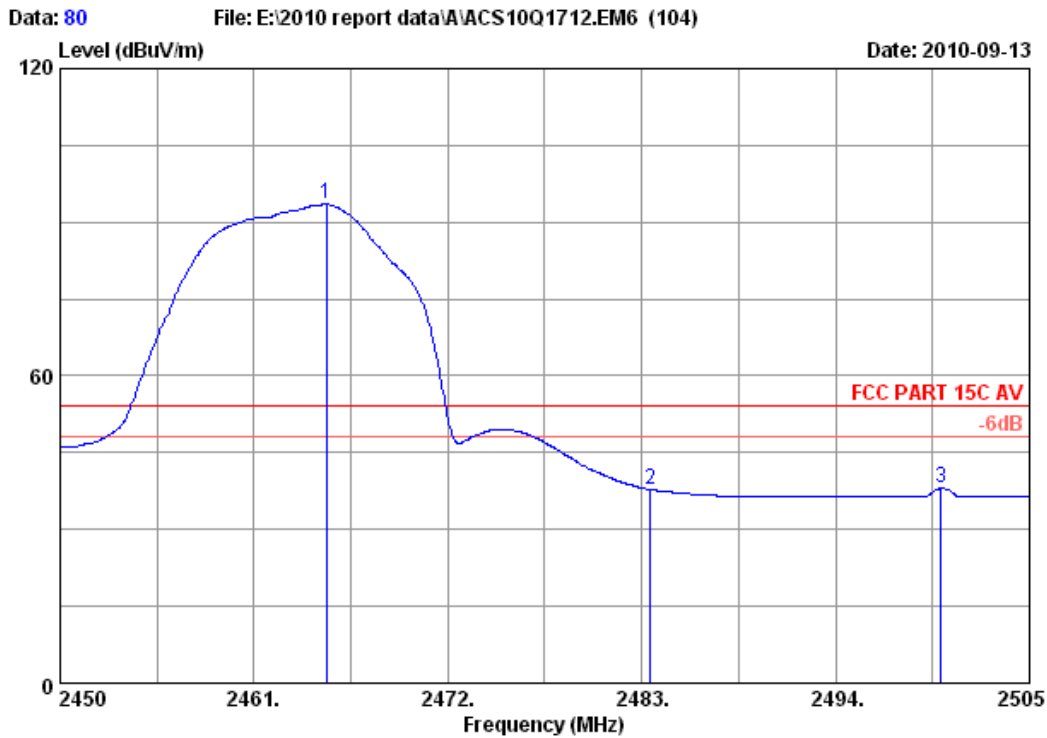


Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : DIR-524

	Ant.	Cable	Amp.	Emission		Limits	Margin	Remark	
	Freq.	loss	Factor	Reading	Level	Margin	(dB)		
	(MHz)	(dB/m)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)			
1	2464.300	29.48	7.54	36.61	101.17	101.58	74.00	-27.58	Peak
2	2483.500	29.49	7.58	36.60	48.13	48.60	74.00	25.40	Peak
3	2500.000	29.50	7.62	36.60	47.29	47.81	74.00	26.19	Peak

Remarks:

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

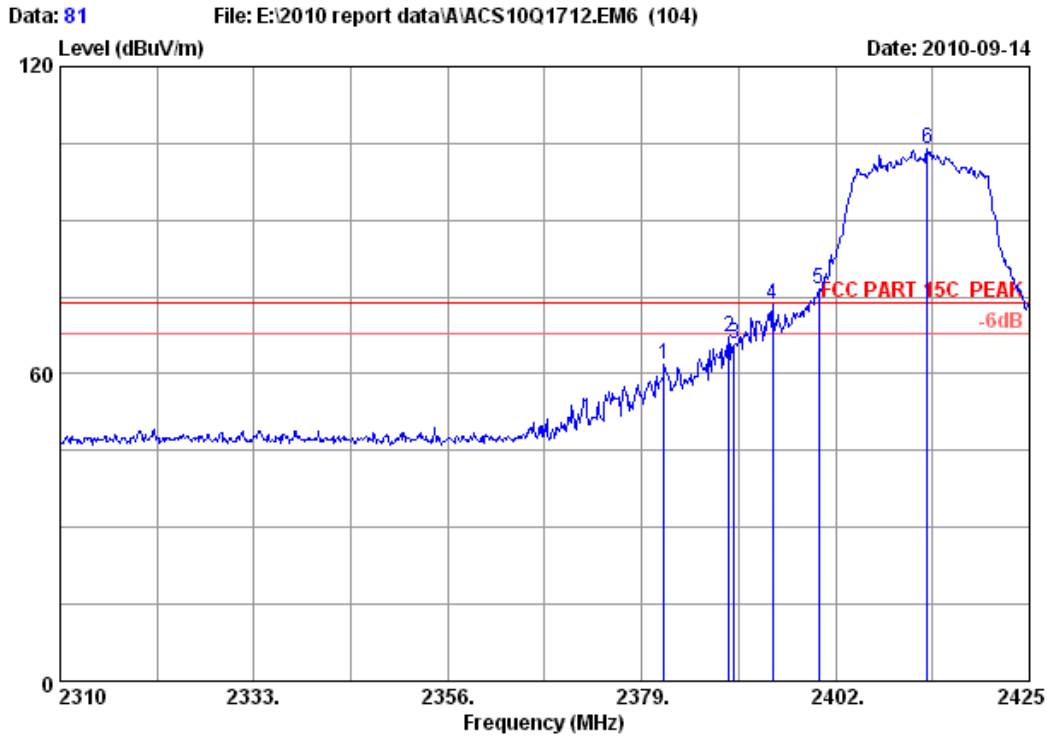


Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : DIR-524

	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	93.07	93.48	54.00	-39.48	Average
2	2483.500	29.49	7.58	36.60	37.33	37.80	54.00	16.20	Average
3	2500.000	29.50	7.62	36.60	37.48	38.00	54.00	16.00	Average

Remarks:

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

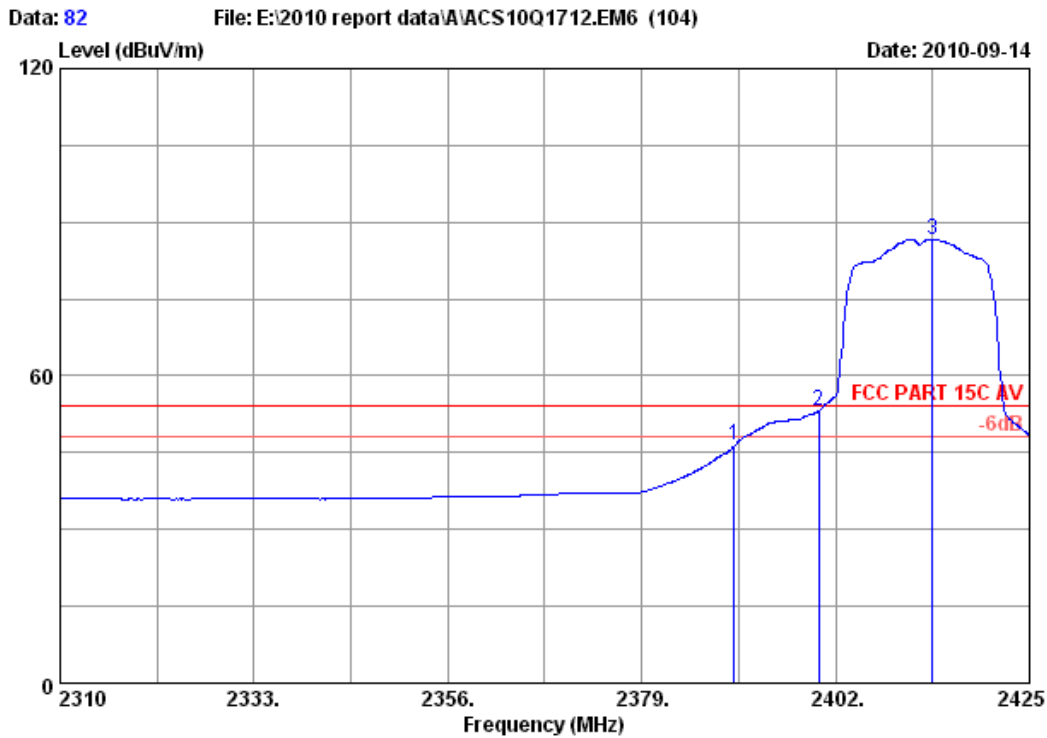


Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : DIR-524

	Ant.	Cable	Amp.	Emission					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2381.645	29.43	7.39	36.62	61.67	61.87	74.00	12.13	Peak
2	2389.350	29.44	7.39	36.62	66.96	67.17	74.00	6.83	Peak
3	2390.000	29.44	7.39	36.62	65.51	65.72	74.00	8.28	Peak
4	2394.525	29.44	7.39	36.62	73.19	73.40	74.00	0.60	Peak
5	2400.000	29.44	7.43	36.62	76.21	76.46	74.00	-2.46	Peak
6	2412.925	29.45	7.43	36.62	103.62	103.88	74.00	-29.88	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.

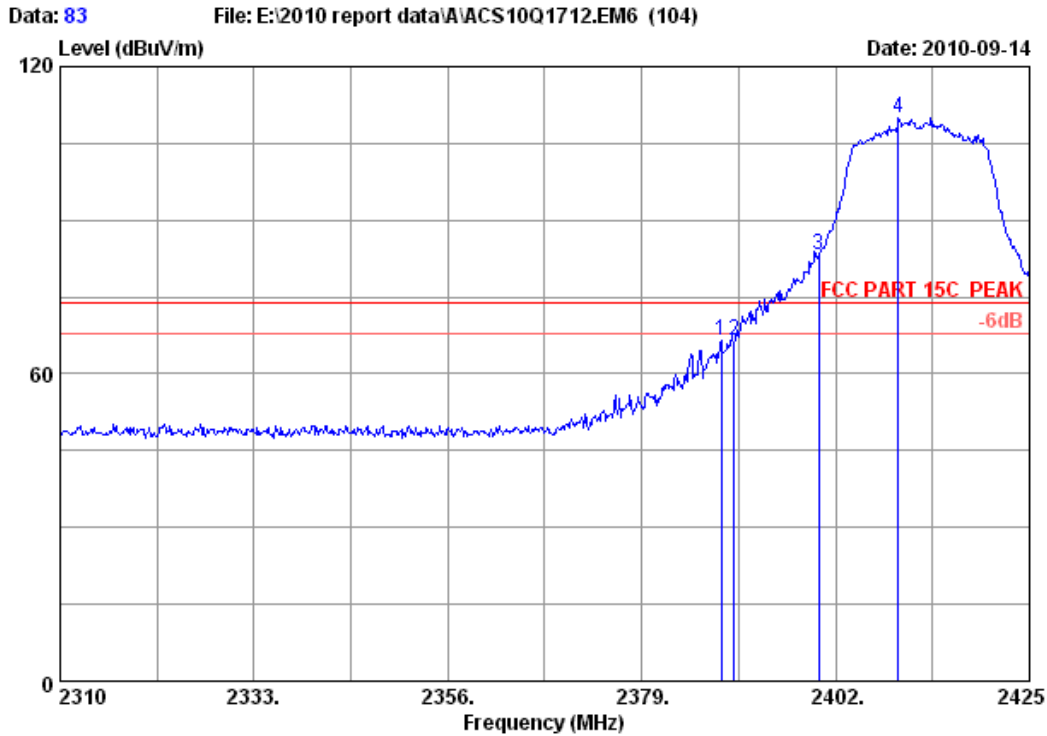


Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : DIR-524

	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	46.13	46.34	54.00	7.66	Average
2	2400.000	29.44	7.43	36.62	53.05	53.30	54.00	0.70	Average
3	2413.500	29.45	7.43	36.62	86.47	86.73	54.00	-32.73	Average

Remarks:

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



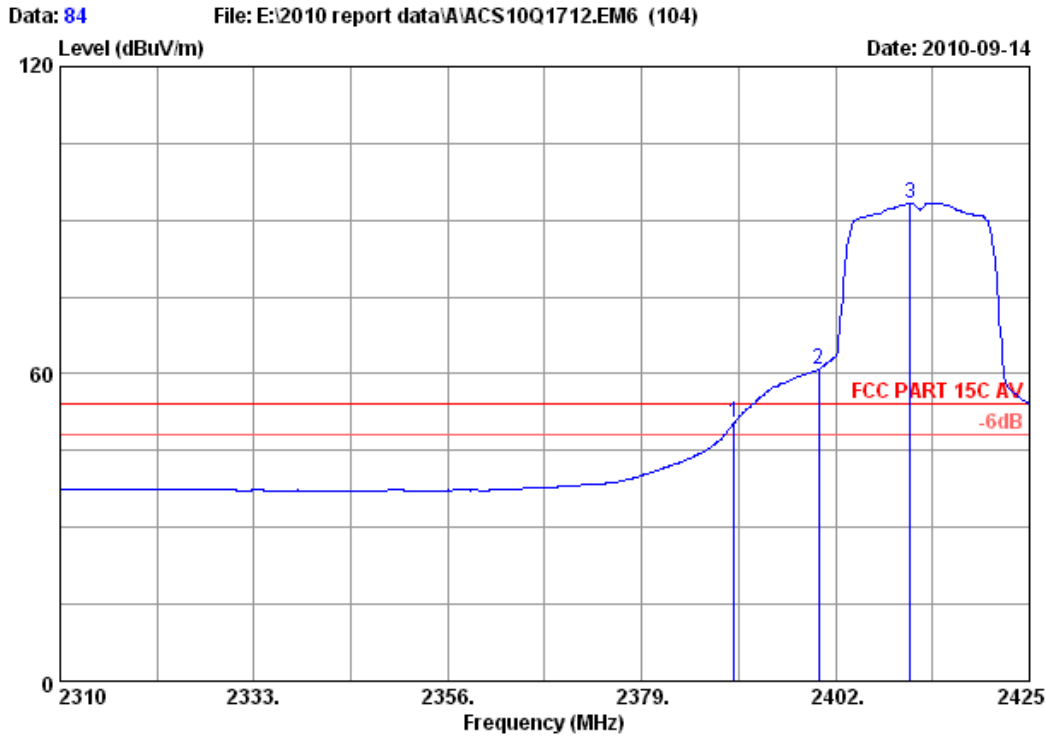
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Site no.      : 3m Chamber           Data no.   : 83
Dis. / Ant.  : 3m 3115(0911)       Ant. pol.  : VERTICAL
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23*C/54%           Engineer   : Sunny-lu
EUT         : Wireless N 150 Router
Power       : DC 5V From Adapter input AC 120V/60Hz
Test mode   : IEEE802.11g CH1 2412MHz Tx
M/N        : DIR-524
    
```

	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	2388.430	29.44	7.39	36.62	66.37	66.58	74.00	7.42	Peak
2	2390.000	29.44	7.39	36.62	66.29	66.50	74.00	7.50	Peak
3	2400.000	29.44	7.43	36.62	83.04	83.29	74.00	-9.29	Peak
4	2409.475	29.45	7.43	36.62	109.87	110.13	74.00	-36.13	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.

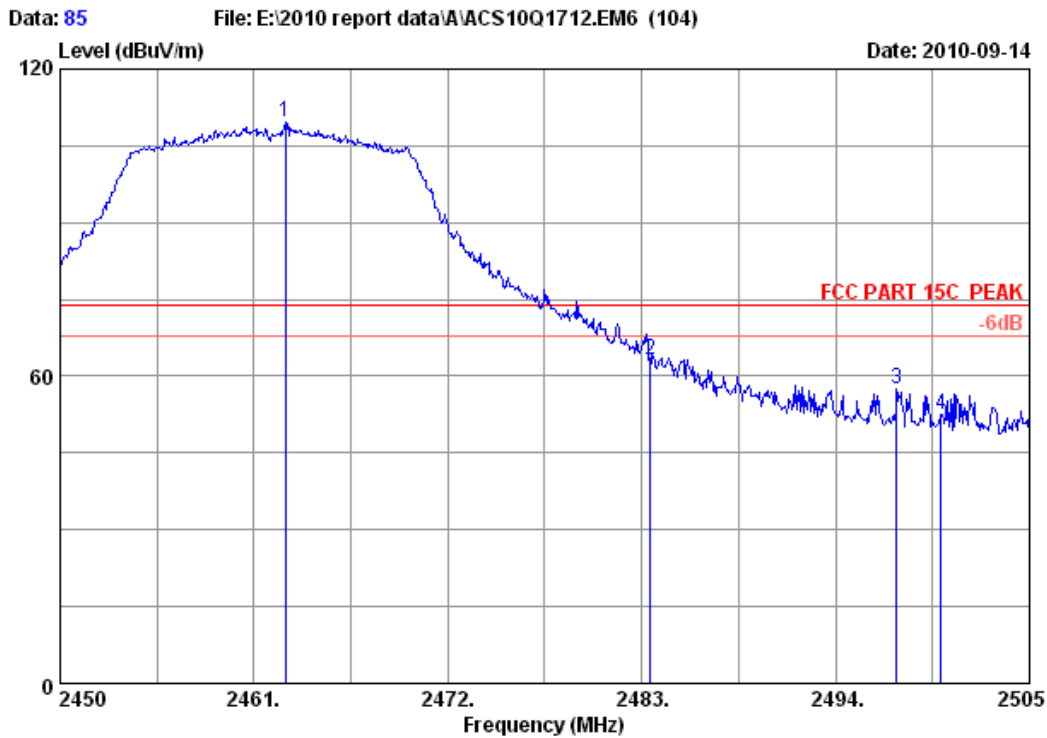


Site no. : 3m Chamber Data no. : 84
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : DIR-524

	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	50.31	50.52	54.00	3.48	Average
2	2400.000	29.44	7.43	36.62	60.75	61.00	54.00	-7.00	Average
3	2410.855	29.45	7.43	36.62	93.03	93.29	54.00	-39.29	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.

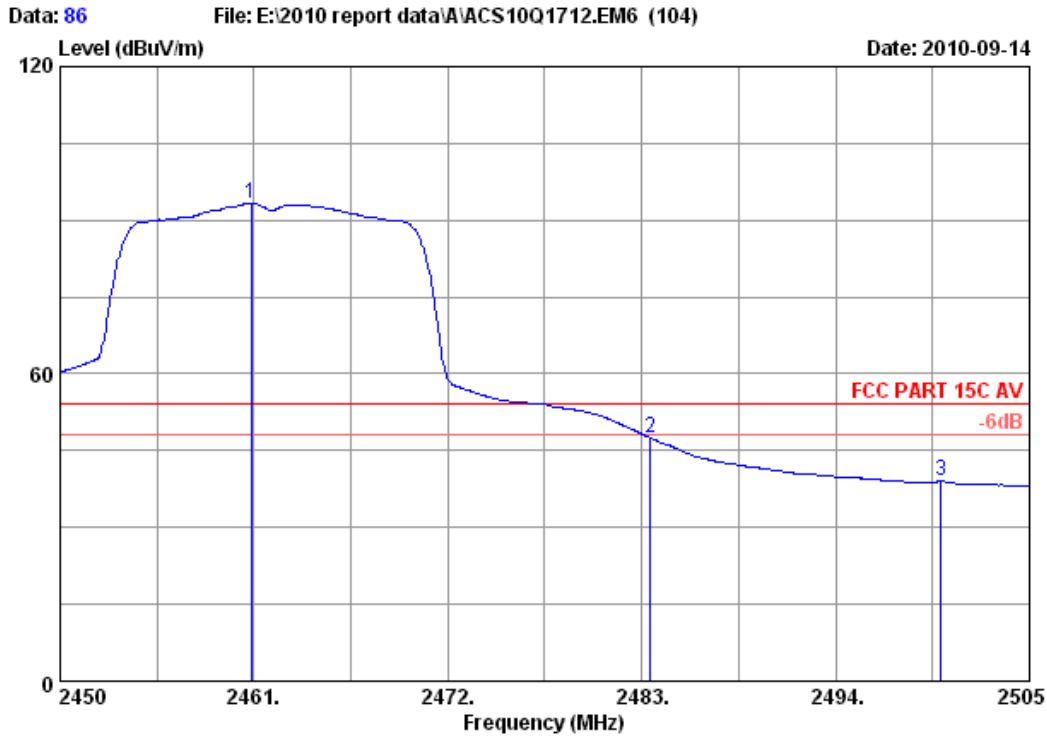


Site no. : 3m Chamber Data no. : 85
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : DIR-524

	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	2462.760	29.48	7.54	36.61	109.39	109.80	74.00	-35.80	Peak
2	2483.500	29.49	7.58	36.60	62.56	63.03	74.00	10.97	Peak
3	2497.465	29.50	7.58	36.60	56.99	57.47	74.00	16.53	Peak
4	2500.000	29.50	7.62	36.60	51.83	52.35	74.00	21.65	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.

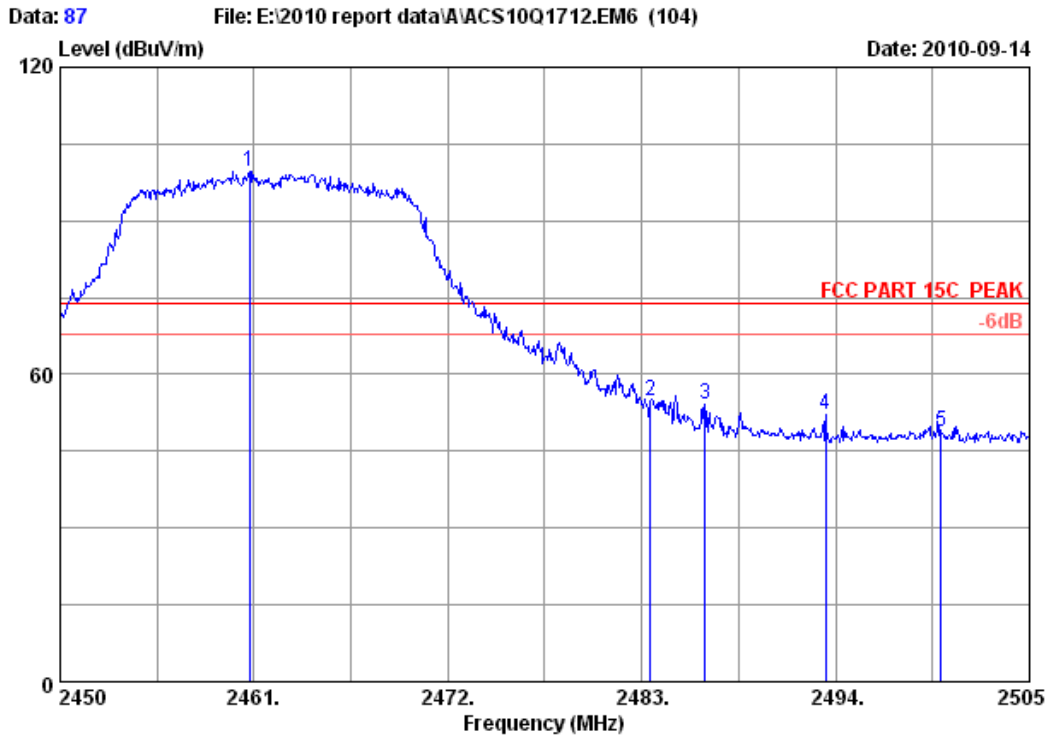


Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : DIR-524

	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	2460.835	29.48	7.54	36.61	92.88	93.29	54.00	-39.29	Average
2	2483.500	29.49	7.58	36.60	47.04	47.51	54.00	6.49	Average
3	2500.000	29.50	7.62	36.60	38.47	38.99	54.00	15.01	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.

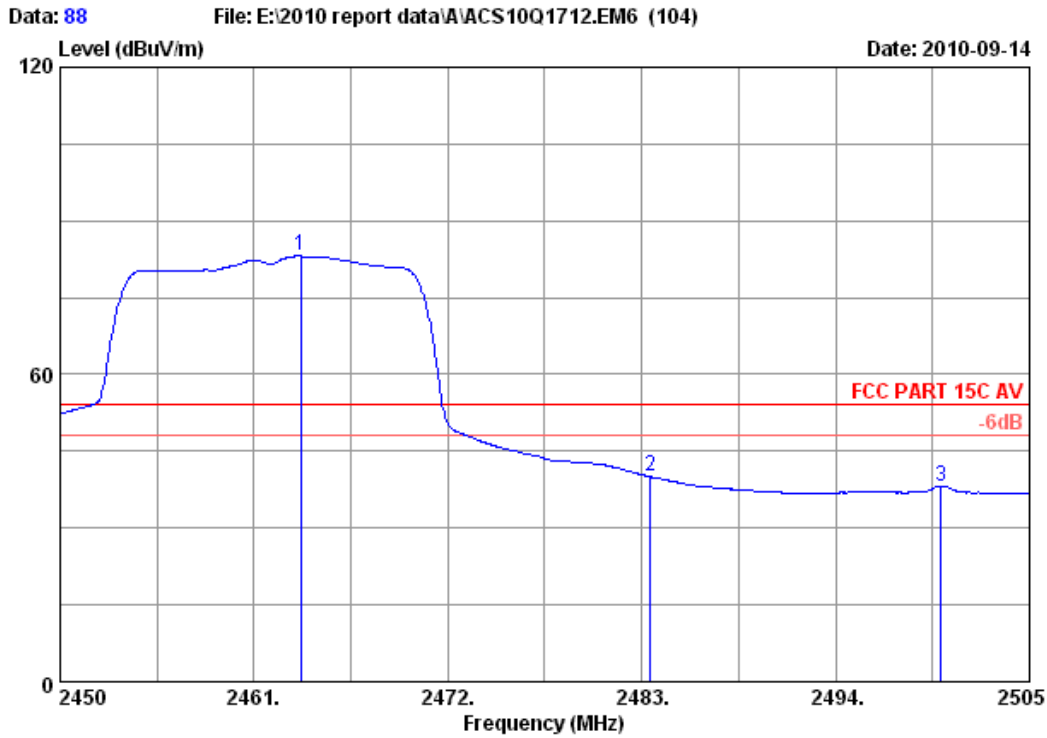


Site no. : 3m Chamber Data no. : 87
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : DIR-524

	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	2460.725	29.48	7.54	36.61	99.26	99.67	74.00	-25.67	Peak
2	2483.500	29.49	7.58	36.60	54.50	54.97	74.00	19.03	Peak
3	2486.575	29.49	7.58	36.60	53.60	54.07	74.00	19.93	Peak
4	2493.450	29.50	7.58	36.60	51.66	52.14	74.00	21.86	Peak
5	2500.000	29.50	7.62	36.60	48.29	48.81	74.00	25.19	Peak

Remarks:

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

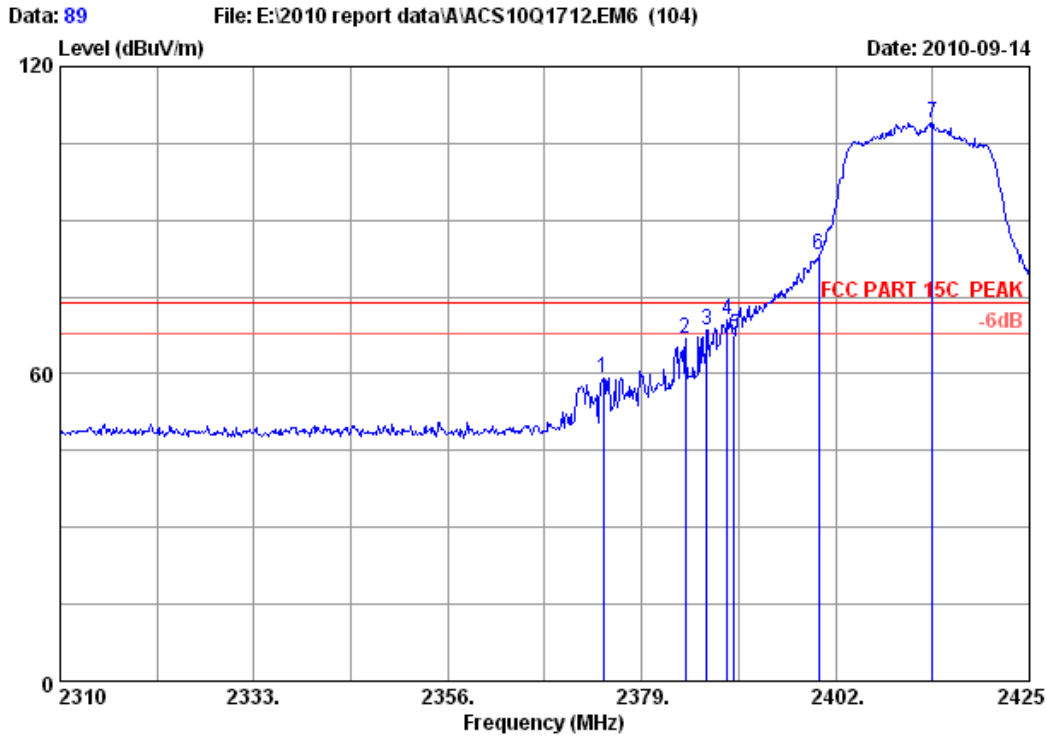


Site no. : 3m Chamber Data no. : 88
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : DIR-524

	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	2463.640	29.48	7.54	36.61	82.68	83.09	54.00	-29.09	Average
2	2483.500	29.49	7.58	36.60	39.54	40.01	54.00	13.99	Average
3	2500.000	29.50	7.62	36.60	37.65	38.17	54.00	15.83	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.

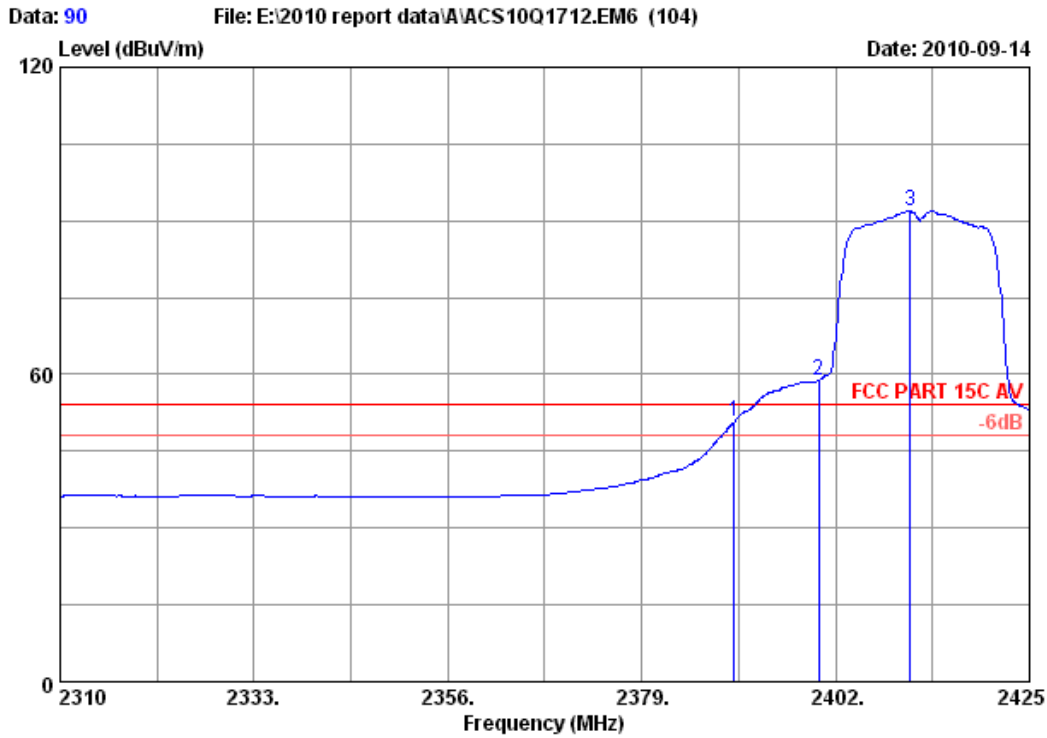


Site no. : 3m Chamber Data no. : 89
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : DIR-524

	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	2374.400	29.43	7.35	36.62	58.97	59.13	74.00	14.87	Peak
2	2384.175	29.43	7.39	36.62	66.67	66.87	74.00	7.13	Peak
3	2386.705	29.44	7.39	36.62	68.32	68.53	74.00	5.47	Peak
4	2389.120	29.44	7.39	36.62	70.16	70.37	74.00	3.63	Peak
5	2390.000	29.44	7.39	36.62	67.36	67.57	74.00	6.43	Peak
6	2400.000	29.44	7.43	36.62	83.09	83.34	74.00	-9.34	Peak
7	2413.500	29.45	7.43	36.62	108.74	109.00	74.00	-35.00	Peak

Remarks:

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

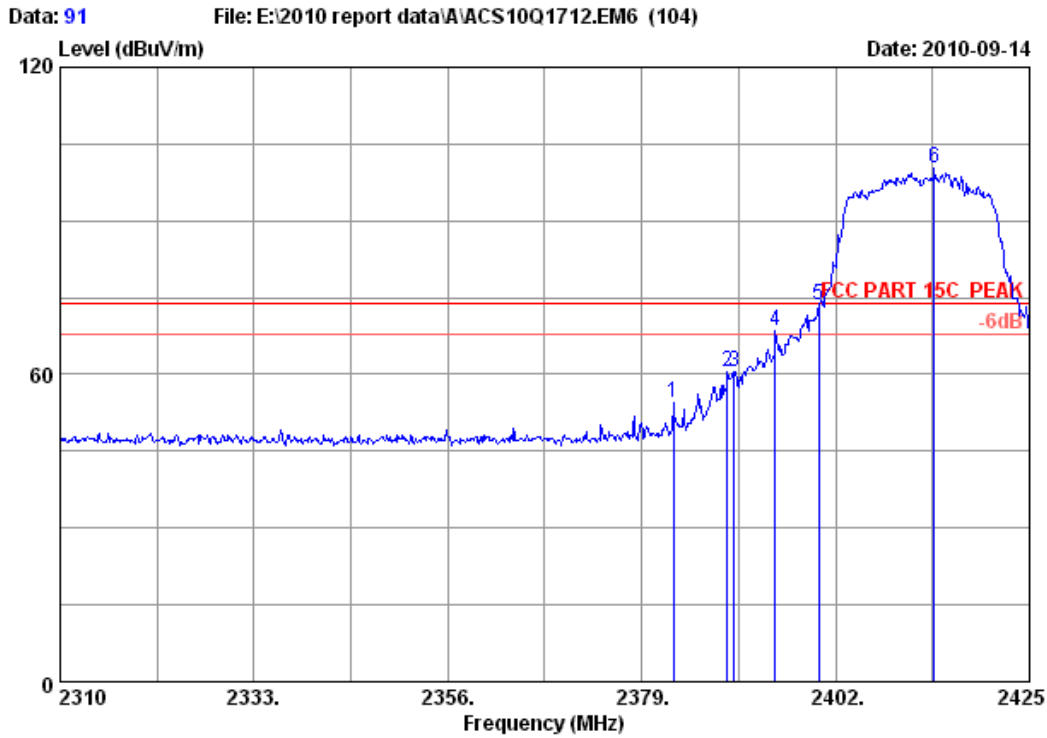


Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : DIR-524

	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	50.65	50.86	54.00	3.14	Average
2	2400.000	29.44	7.43	36.62	58.74	58.99	54.00	-4.99	Average
3	2410.855	29.45	7.43	36.62	91.59	91.85	54.00	-37.85	Average

Remarks:

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

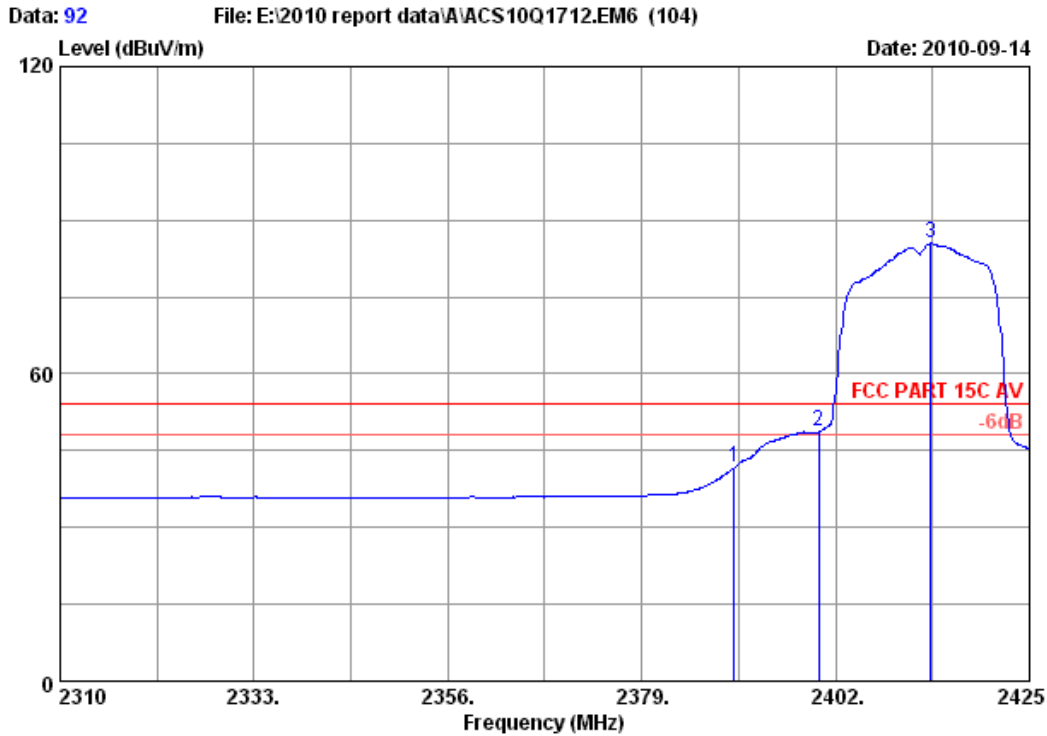


Site no. : 3m Chamber Data no. : 91
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : DIR-524

	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	2382.795	29.43	7.39	36.62	54.13	54.33	74.00	19.67	Peak
2	2389.120	29.44	7.39	36.62	60.26	60.47	74.00	13.53	Peak
3	2390.000	29.44	7.39	36.62	60.13	60.34	74.00	13.66	Peak
4	2394.870	29.44	7.39	36.62	68.31	68.52	74.00	5.48	Peak
5	2400.000	29.44	7.43	36.62	73.25	73.50	74.00	0.50	Peak
6	2413.730	29.45	7.43	36.62	99.87	100.13	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.

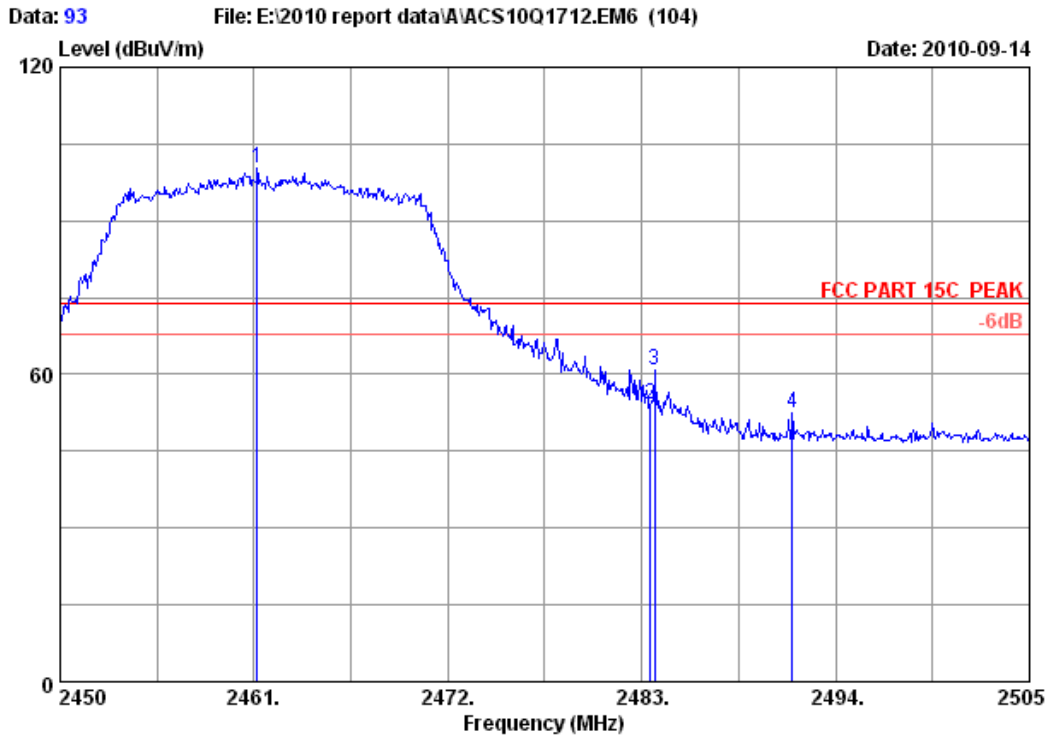


Site no. : 3m Chamber Data no. : 92
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : DIR-524

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2390.000	29.44	7.39	36.62	41.48	41.69	54.00	12.31	Average
2	2400.000	29.44	7.43	36.62	48.44	48.69	54.00	5.31	Average
3	2413.270	29.45	7.43	36.62	85.18	85.44	54.00	-31.44	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.

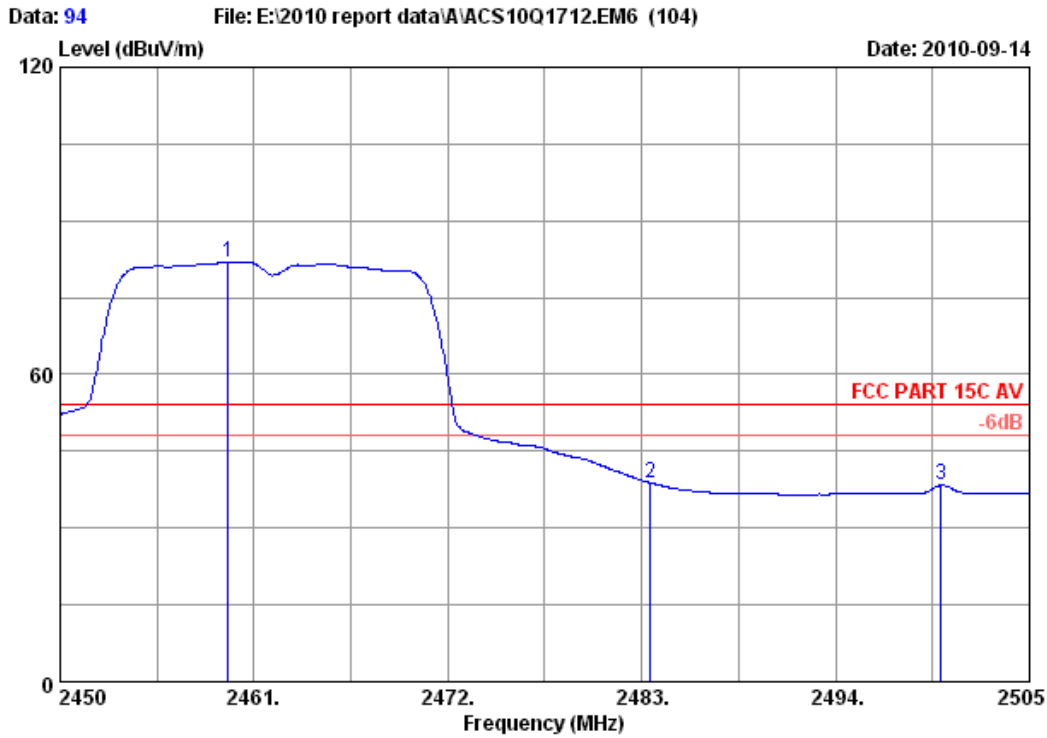


Site no. : 3m Chamber Data no. : 93
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : DIR-524

	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	2461.165	29.48	7.54	36.61	99.91	100.32	74.00	-26.32	Peak
2	2483.500	29.49	7.58	36.60	53.62	54.09	74.00	19.91	Peak
3	2483.715	29.49	7.58	36.60	60.35	60.82	74.00	13.18	Peak
4	2491.525	29.50	7.58	36.60	51.95	52.43	74.00	21.57	Peak

Remarks:

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

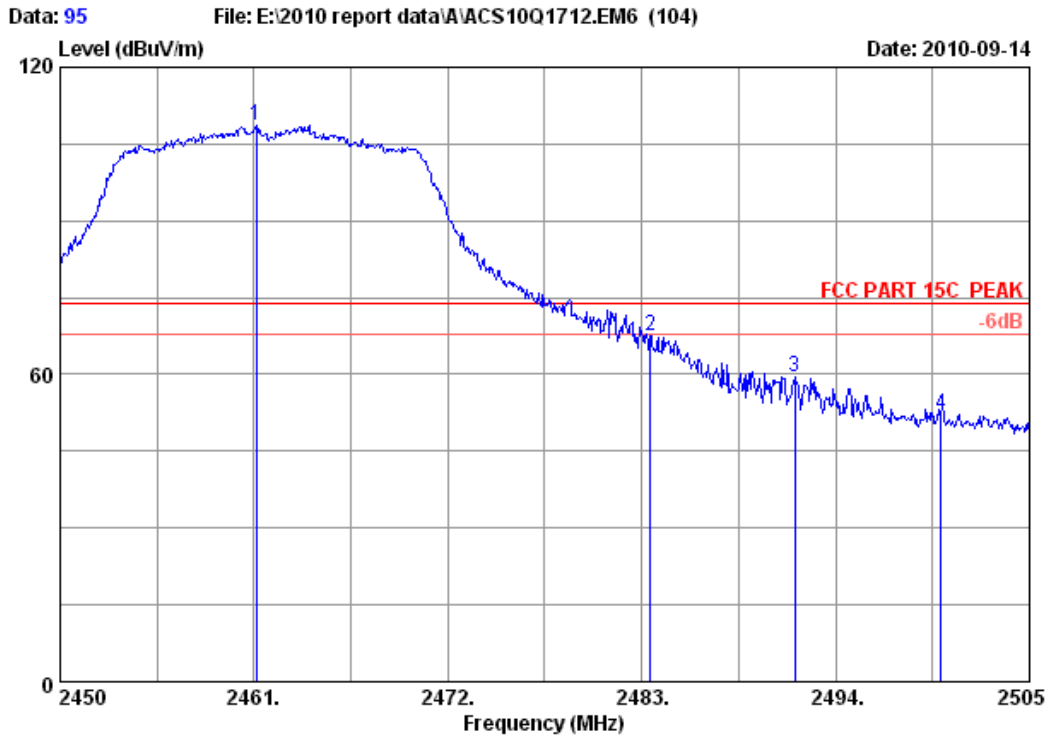


Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : DIR-524

	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	2459.515	29.48	7.54	36.61	81.63	82.04	54.00	-28.04	Average
2	2483.500	29.49	7.58	36.60	38.32	38.79	54.00	15.21	Average
3	2500.000	29.50	7.62	36.60	37.82	38.34	54.00	15.66	Average

Remarks:

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

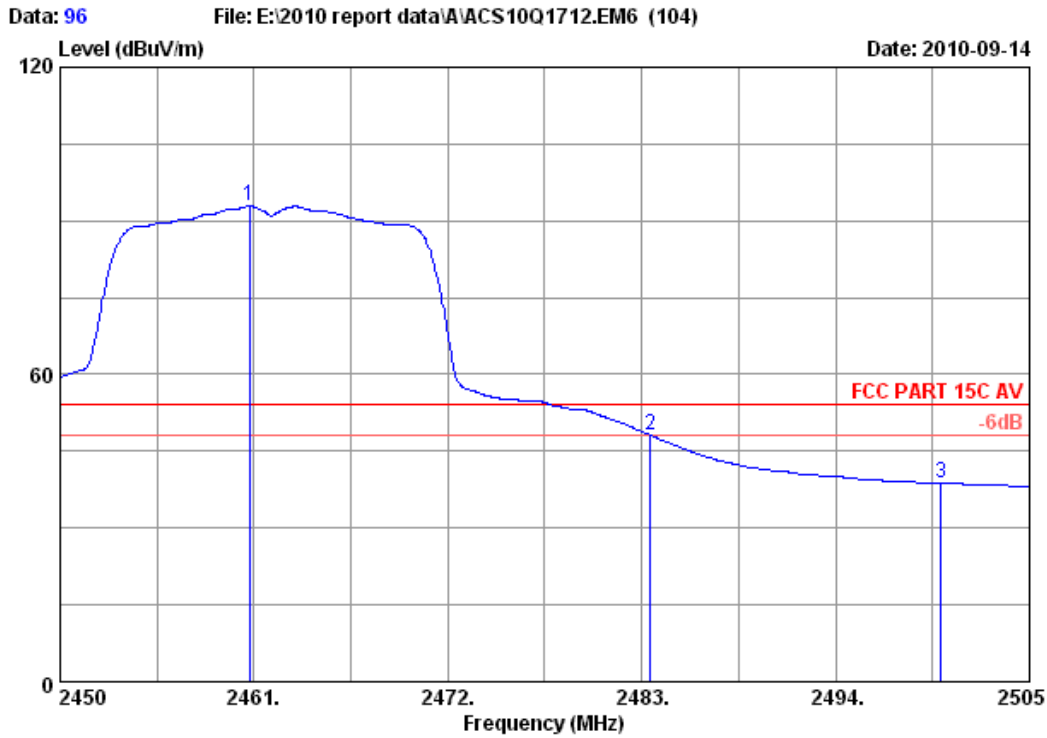


Site no. : 3m Chamber Data no. : 95
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : DIR-524

	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	2461.110	29.48	7.54	36.61	108.31	108.72	74.00	-34.72	Peak
2	2483.500	29.49	7.58	36.60	66.92	67.39	74.00	6.61	Peak
3	2491.690	29.50	7.58	36.60	58.89	59.37	74.00	14.63	Peak
4	2500.000	29.50	7.62	36.60	51.53	52.05	74.00	21.95	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.

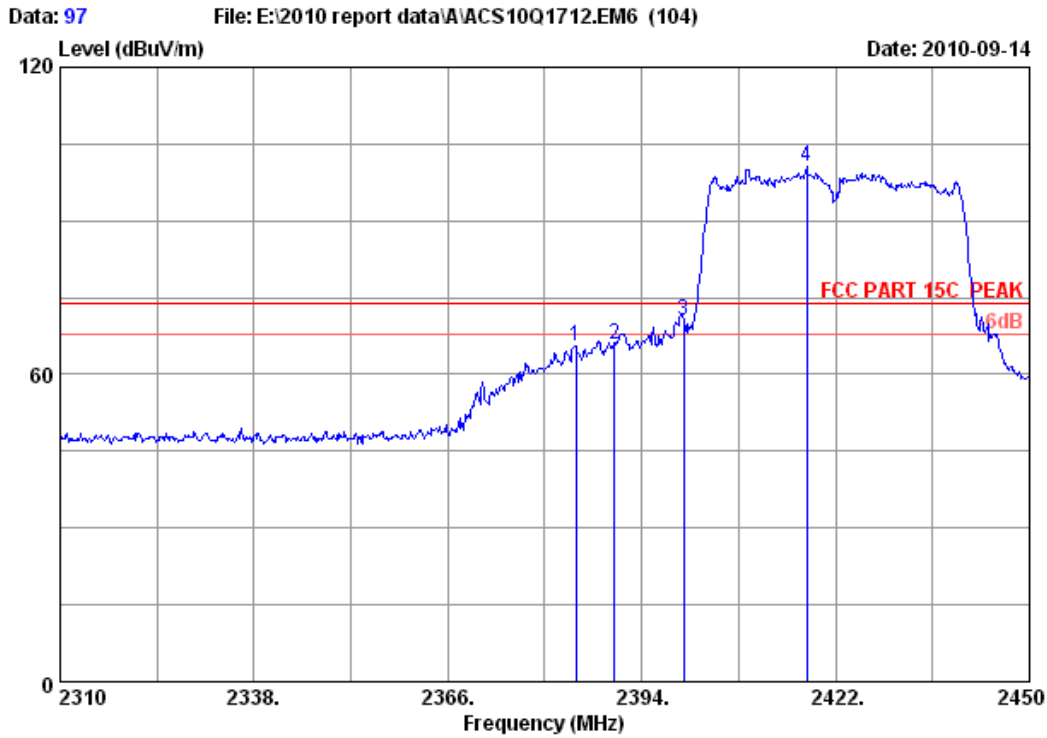


Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : DIR-524

	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	2460.725	29.48	7.54	36.61	92.43	92.84	54.00	-38.84	Average
2	2483.500	29.49	7.58	36.60	47.68	48.15	54.00	5.85	Average
3	2500.000	29.50	7.62	36.60	38.34	38.86	54.00	15.14	Average

Remarks:

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

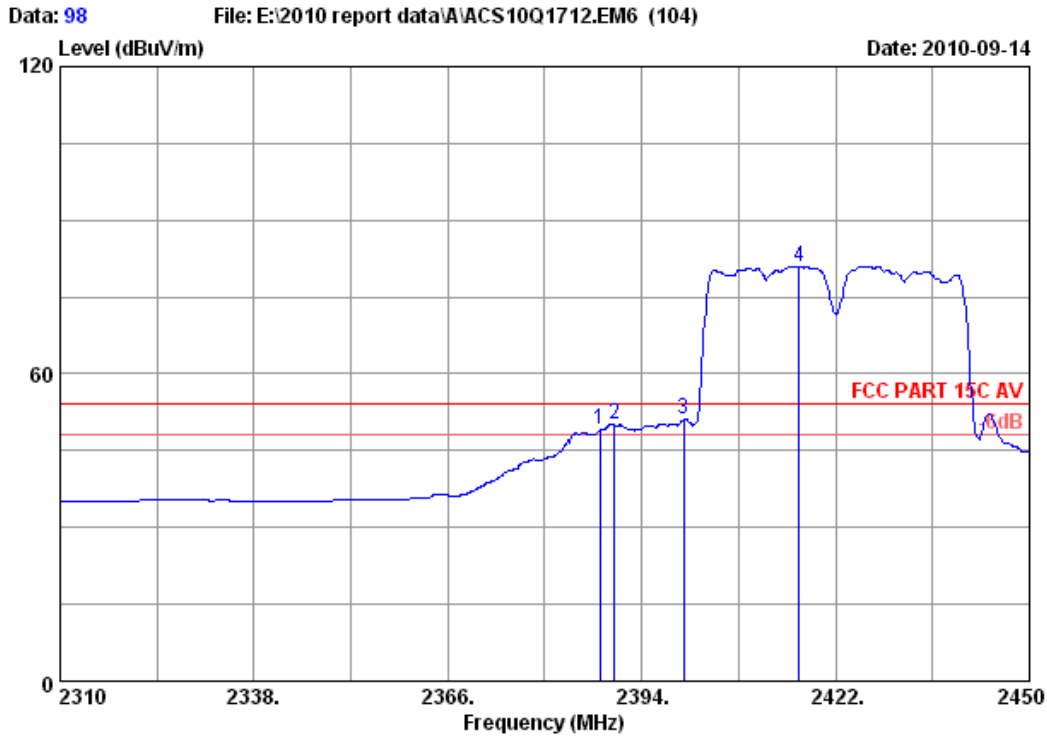


Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : DIR-524

	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	2384.480	29.43	7.39	36.62	65.35	65.55	74.00	8.45	Peak
2	2390.000	29.44	7.39	36.62	65.49	65.70	74.00	8.30	Peak
3	2400.000	29.44	7.43	36.62	70.23	70.48	74.00	3.52	Peak
4	2417.800	29.45	7.43	36.61	100.34	100.61	74.00	-26.61	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.

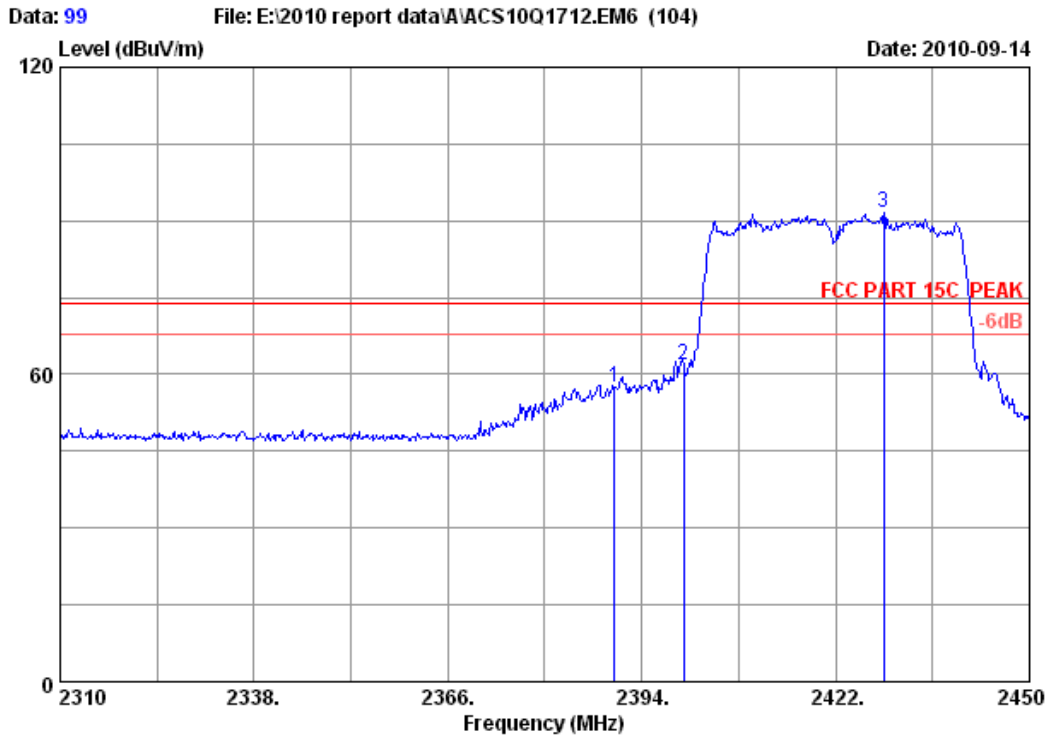


Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : DIR-524

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	2388.000	29.44	7.39	36.62	48.87	49.08	54.00	4.92	Average
2	2390.000	29.44	7.39	36.62	49.81	50.02	54.00	3.98	Average
3	2400.000	29.44	7.43	36.62	50.86	51.11	54.00	2.89	Average
4	2416.680	29.45	7.43	36.61	80.78	81.05	54.00	-27.05	Average

Remarks:

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

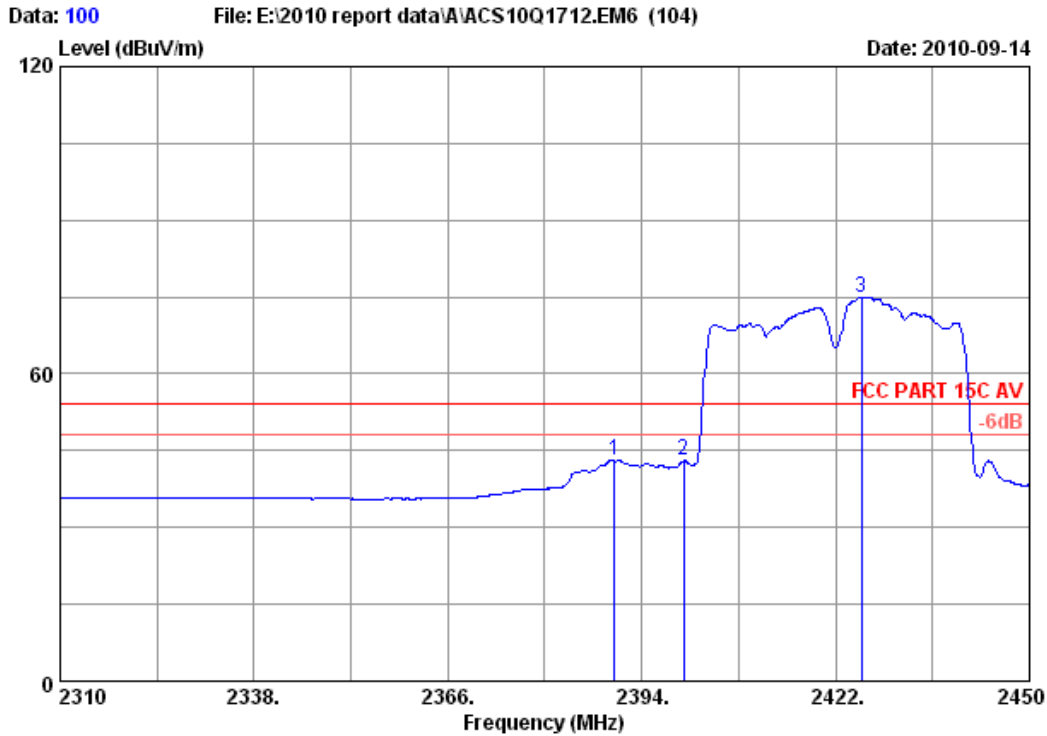


Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : DIR-524

	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	57.43	57.64	74.00	16.36	Peak
2	2400.000	29.44	7.43	36.62	61.56	61.81	74.00	12.19	Peak
3	2429.000	29.46	7.46	36.61	91.23	91.54	74.00	-17.54	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.

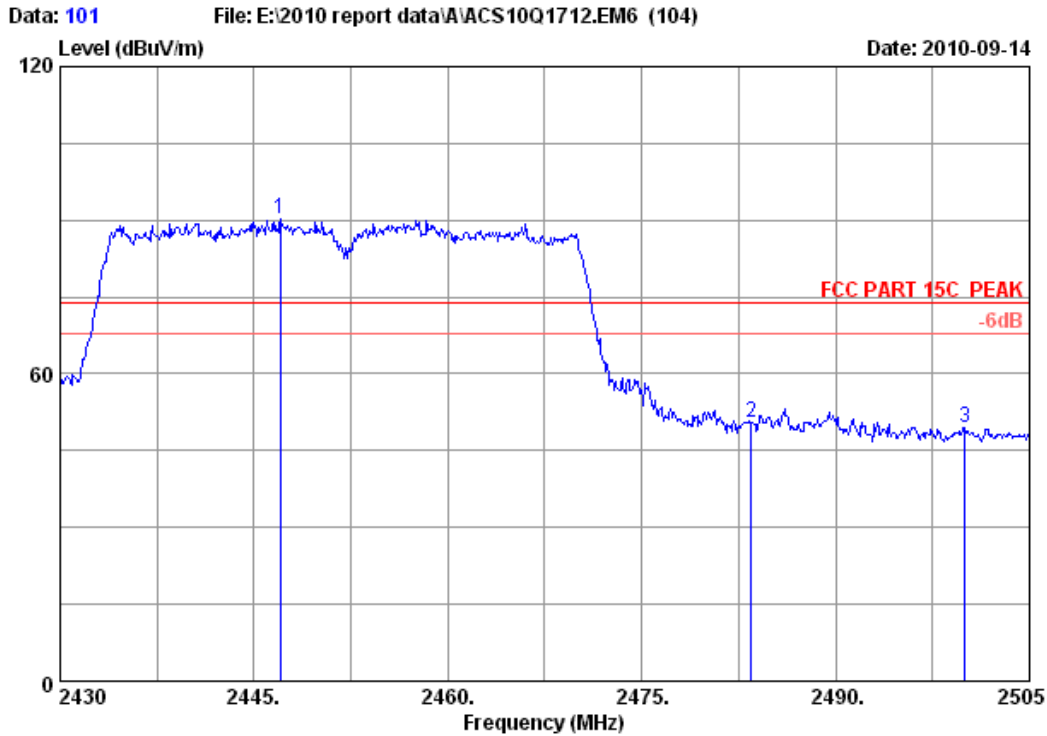


Site no. : 3m Chamber Data no. : 100
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : DIR-524

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	2390.000	29.44	7.39	36.62	42.81	43.02	54.00	10.98	Average
2	2400.000	29.44	7.43	36.62	42.72	42.97	54.00	11.03	Average
3	2425.780	29.46	7.46	36.61	74.69	75.00	54.00	-21.00	Average

Remarks:

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

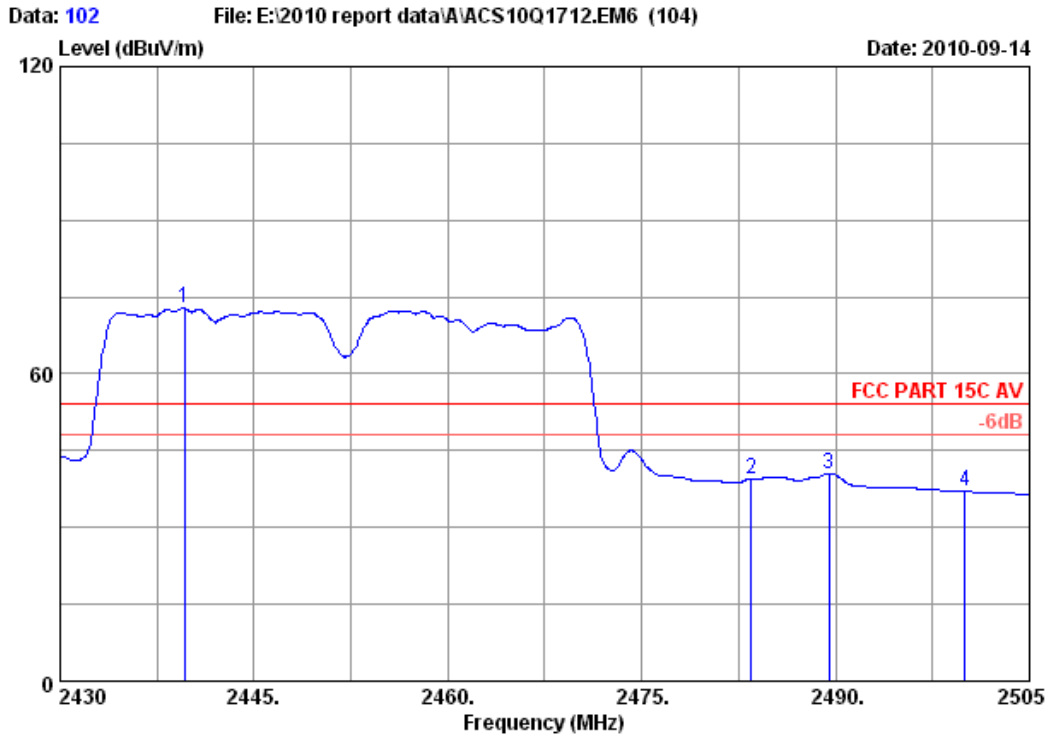


Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : DIR-524

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	2447.025	29.47	7.50	36.61	89.96	90.32	74.00	-16.32	Peak
2	2483.500	29.49	7.58	36.60	49.93	50.40	74.00	23.60	Peak
3	2500.000	29.50	7.62	36.60	48.86	49.38	74.00	24.62	Peak

Remarks:

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

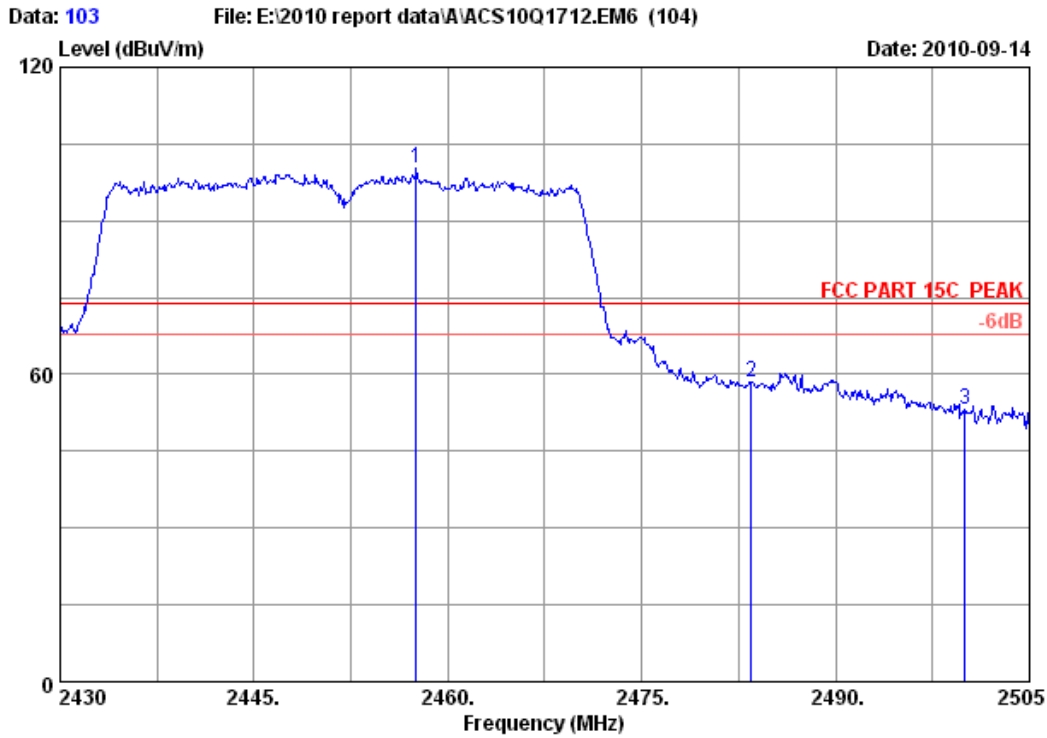


Site no. : 3m Chamber Data no. : 102
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : DIR-524

	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	2439.600	29.47	7.50	36.61	72.37	72.73	54.00	-18.73	Average
2	2483.500	29.49	7.58	36.60	38.95	39.42	54.00	14.58	Average
3	2489.475	29.50	7.58	36.60	40.02	40.50	54.00	13.50	Average
4	2500.000	29.50	7.62	36.60	36.67	37.19	54.00	16.81	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.

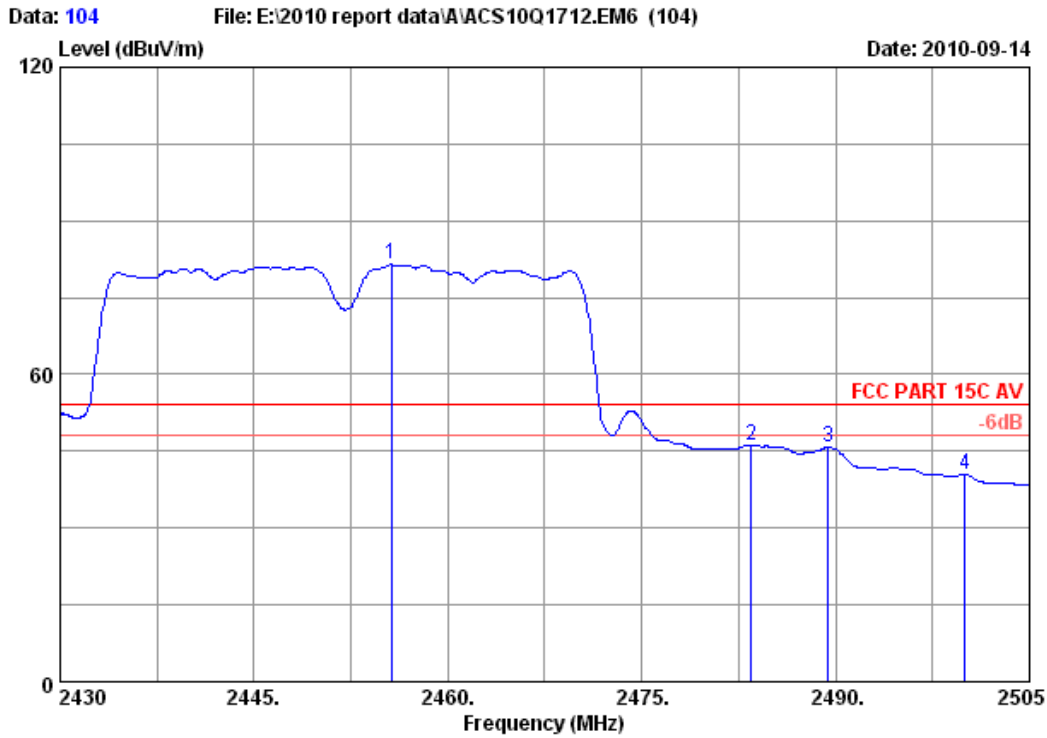


Site no. : 3m Chamber Data no. : 103
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : DIR-524

	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	2457.525	29.48	7.50	36.61	100.07	100.44	74.00	-26.44	Peak
2	2483.500	29.49	7.58	36.60	57.96	58.43	74.00	15.57	Peak
3	2500.000	29.50	7.62	36.60	52.70	53.22	74.00	20.78	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. : 104
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : Wireless N 150 Router
 Power : DC 5V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : DIR-524

	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	2455.650	29.48	7.50	36.61	81.04	81.41	54.00	-27.41	Average
2	2483.500	29.49	7.58	36.60	45.78	46.25	54.00	7.75	Average
3	2489.400	29.50	7.58	36.60	45.26	45.74	54.00	8.26	Average
4	2500.000	29.50	7.62	36.60	39.99	40.51	54.00	13.49	Average

Remarks:

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

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

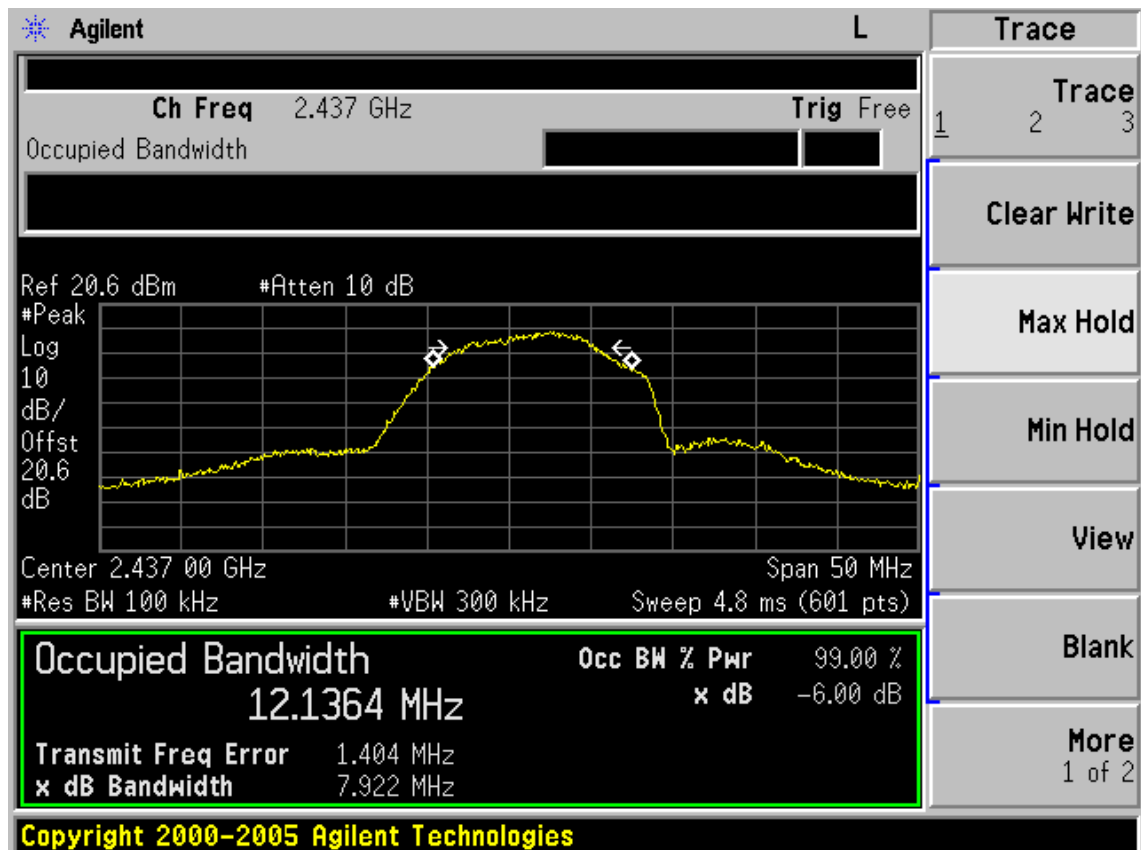
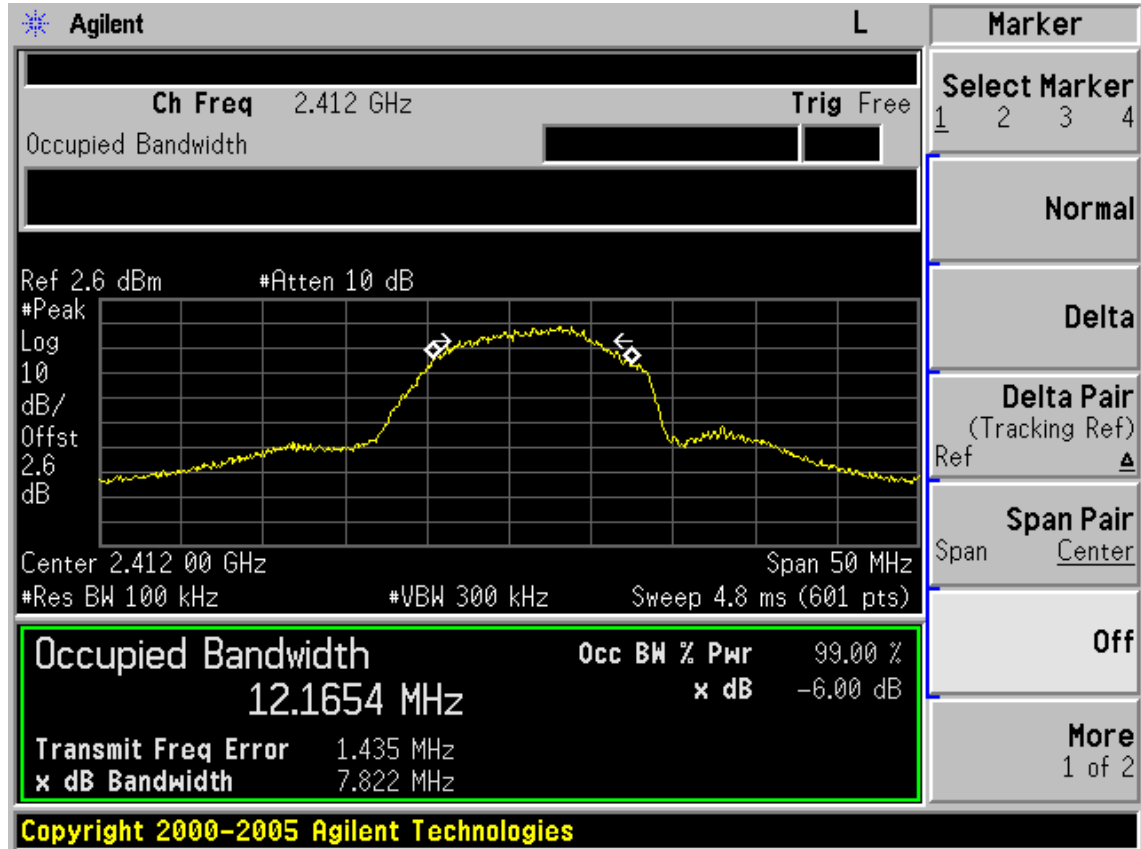
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

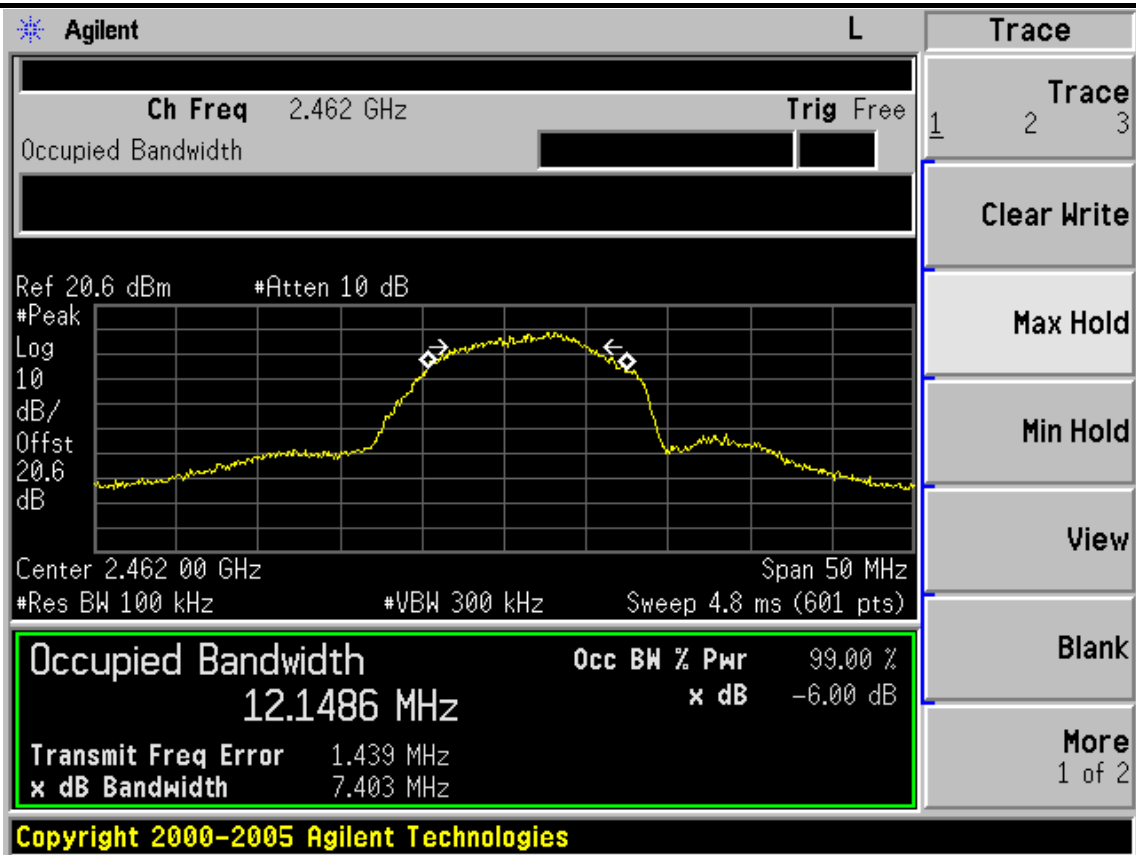
7.4. Test Results

EUT: Wireless N 150 Router		
M/N:DIR-524		
Test date:2010-09-15	Pressure: 100.6 kpa	Humidity: 60 %
Tested by: Sunny-lu	Test site: RF site	Temperature:25 °C

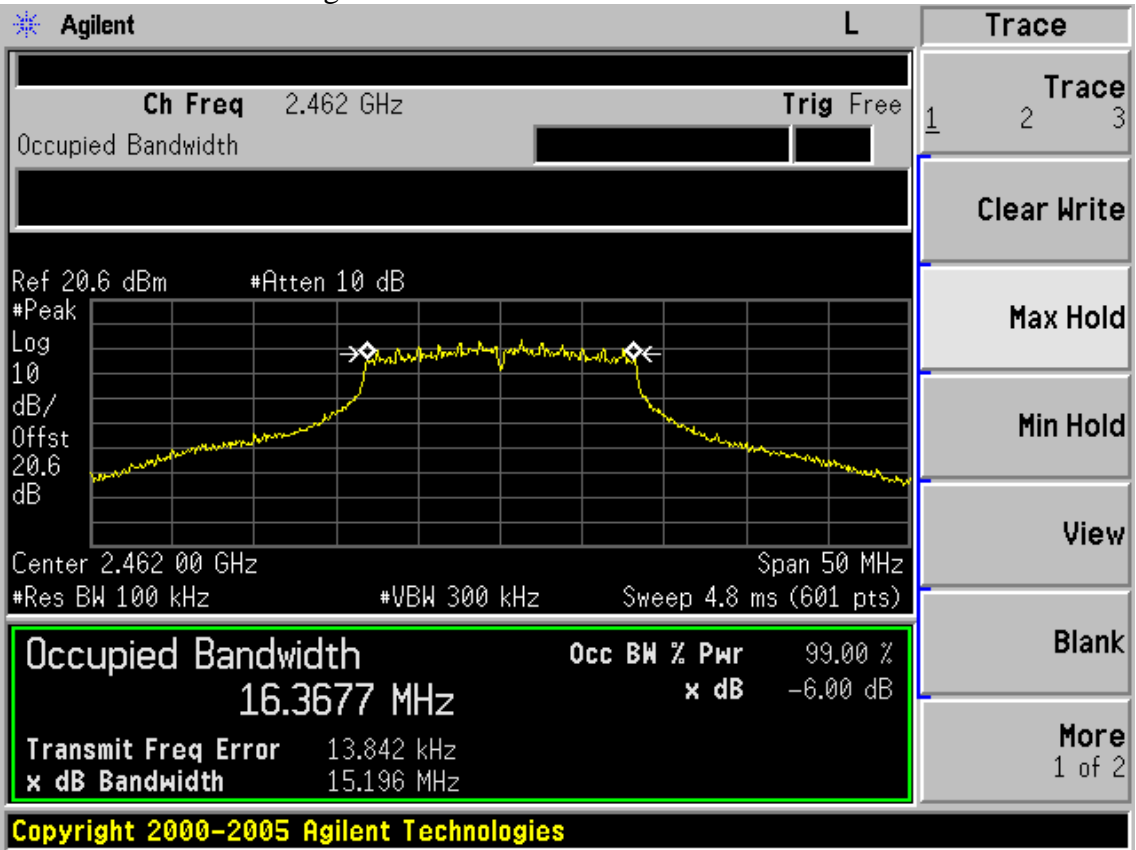
Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 2dBi
Test Mode	CH	6dB bandwidth (MHz)	Limit (KHz)
11b	CH1	7.822	>500
	CH6	7.922	>500
	CH11	7.403	>500
11g	CH1	15.193	>500
	CH6	15.199	>500
	CH11	15.196	>500
11n HT20	CH1	15.205	>500
	CH6	15.205	>500
	CH11	15.187	>500
11n HT40	CH1	36.491	>500
	CH4	36.388	>500
	CH7	36.364	>500
Conclusion: PASS			

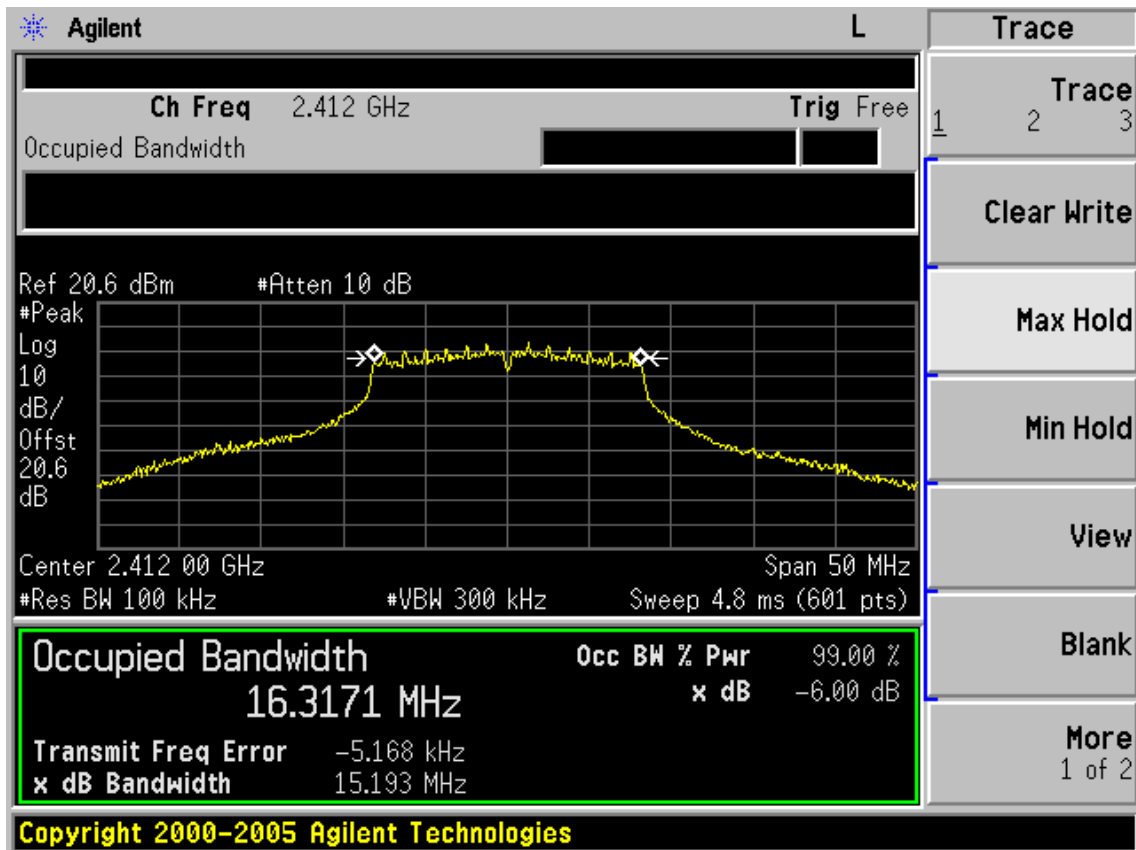
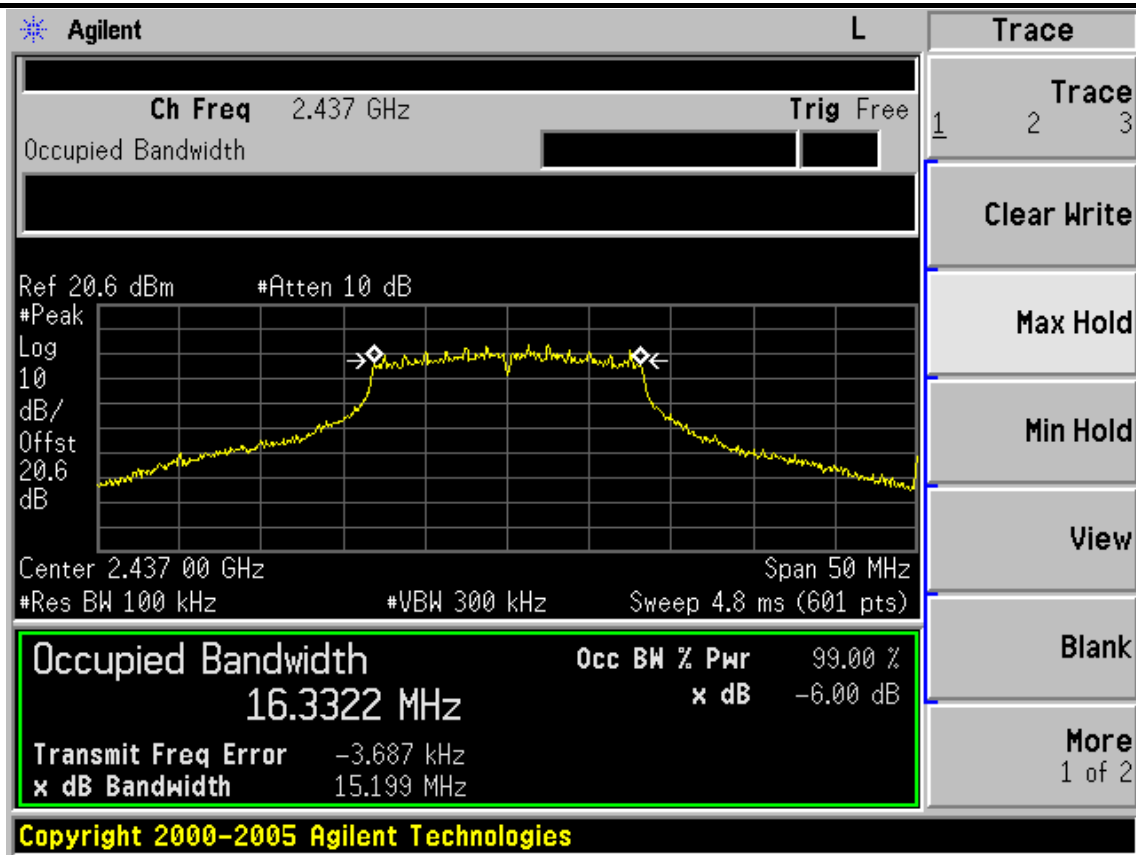
Test Mode: IEEE 802.11b TX



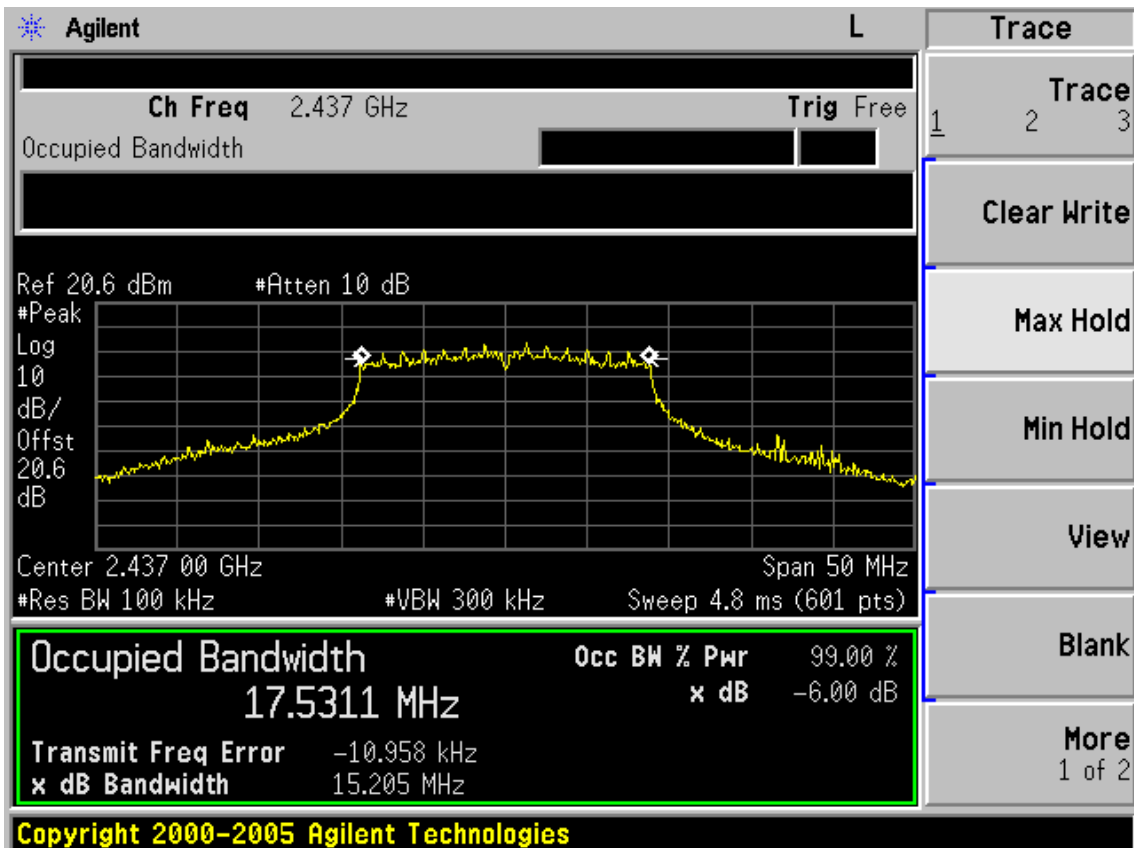
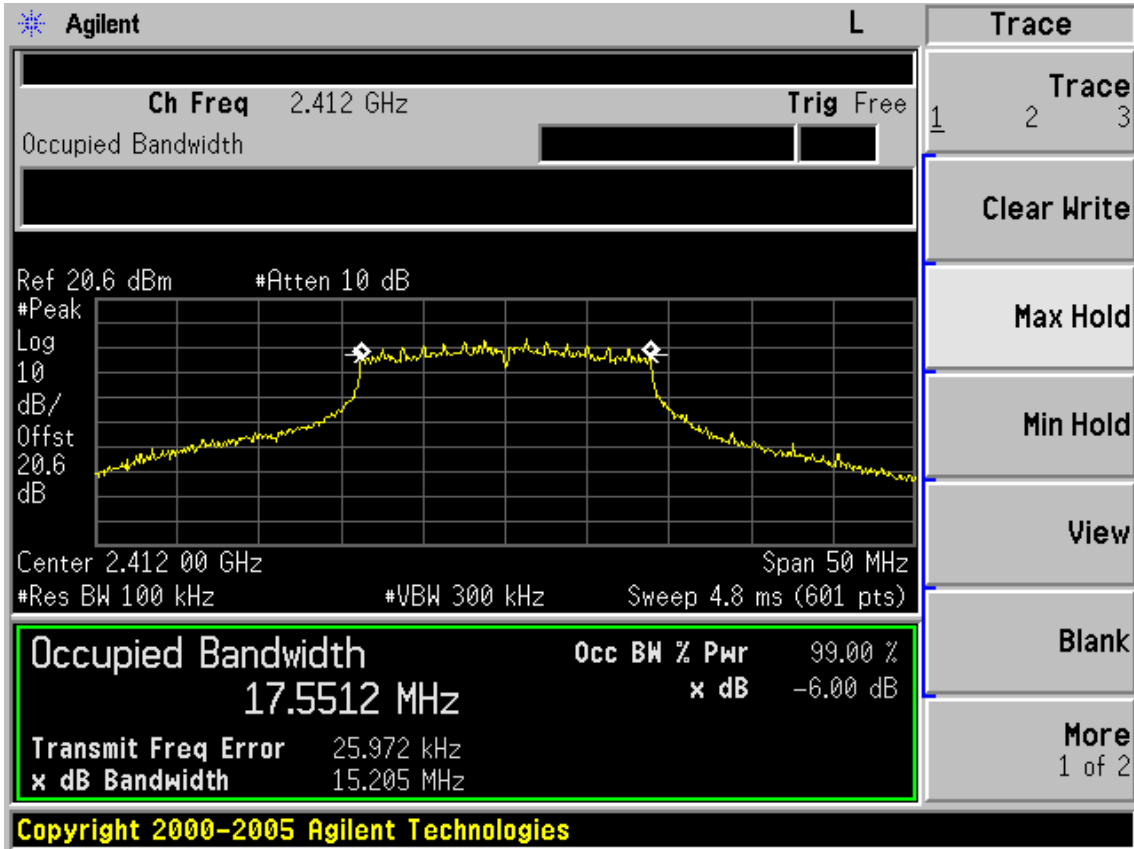


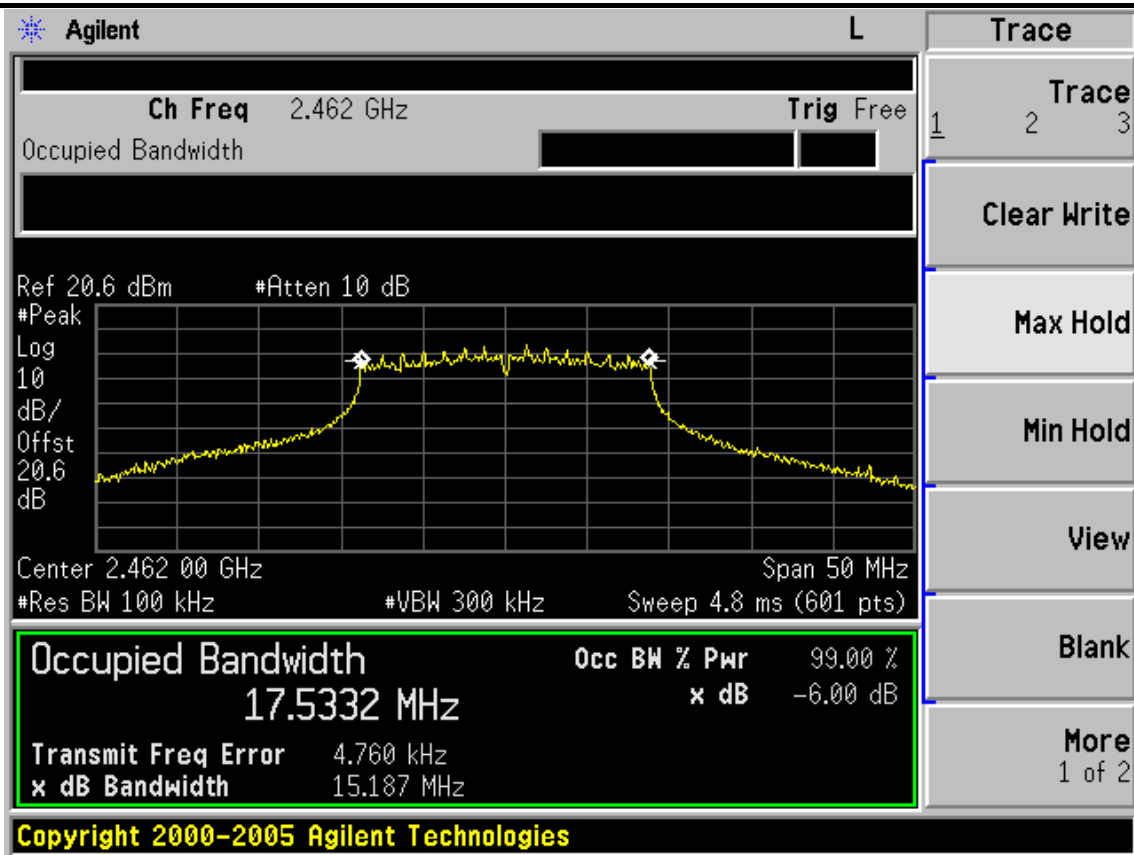
Test Mode: IEEE 802.11g TX



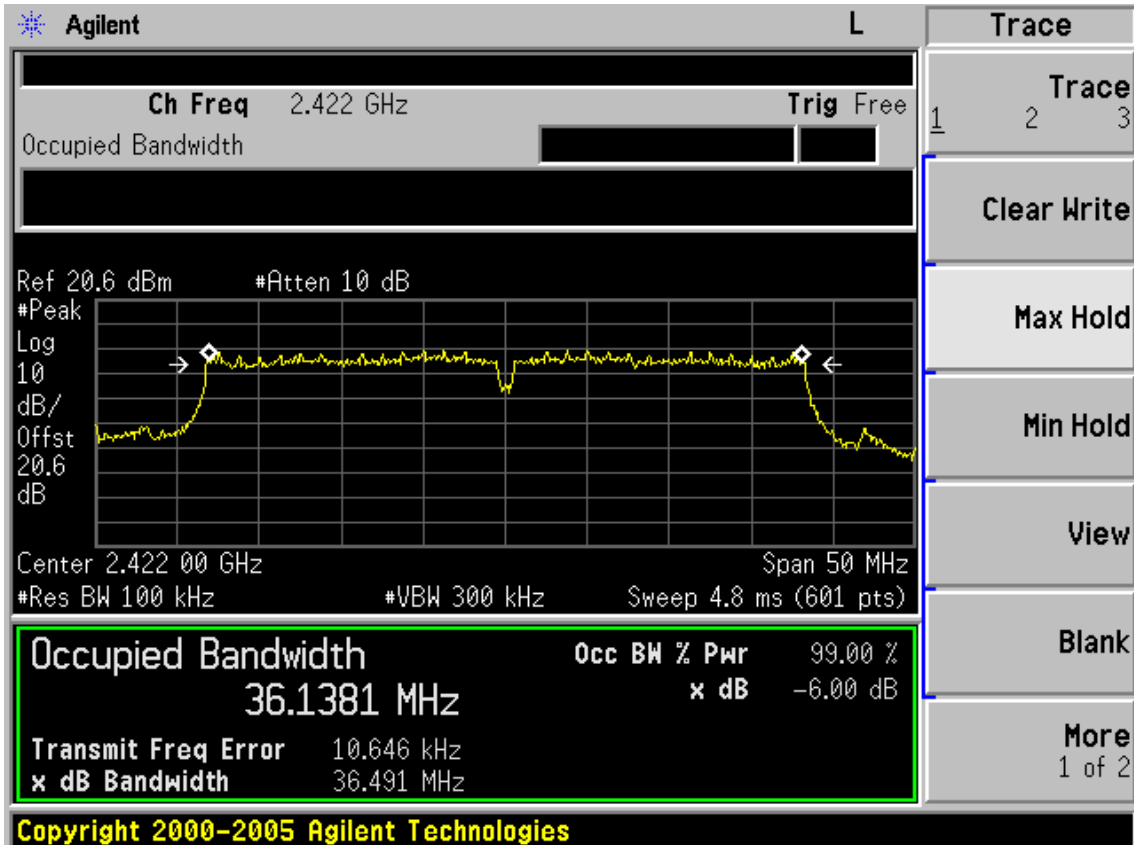


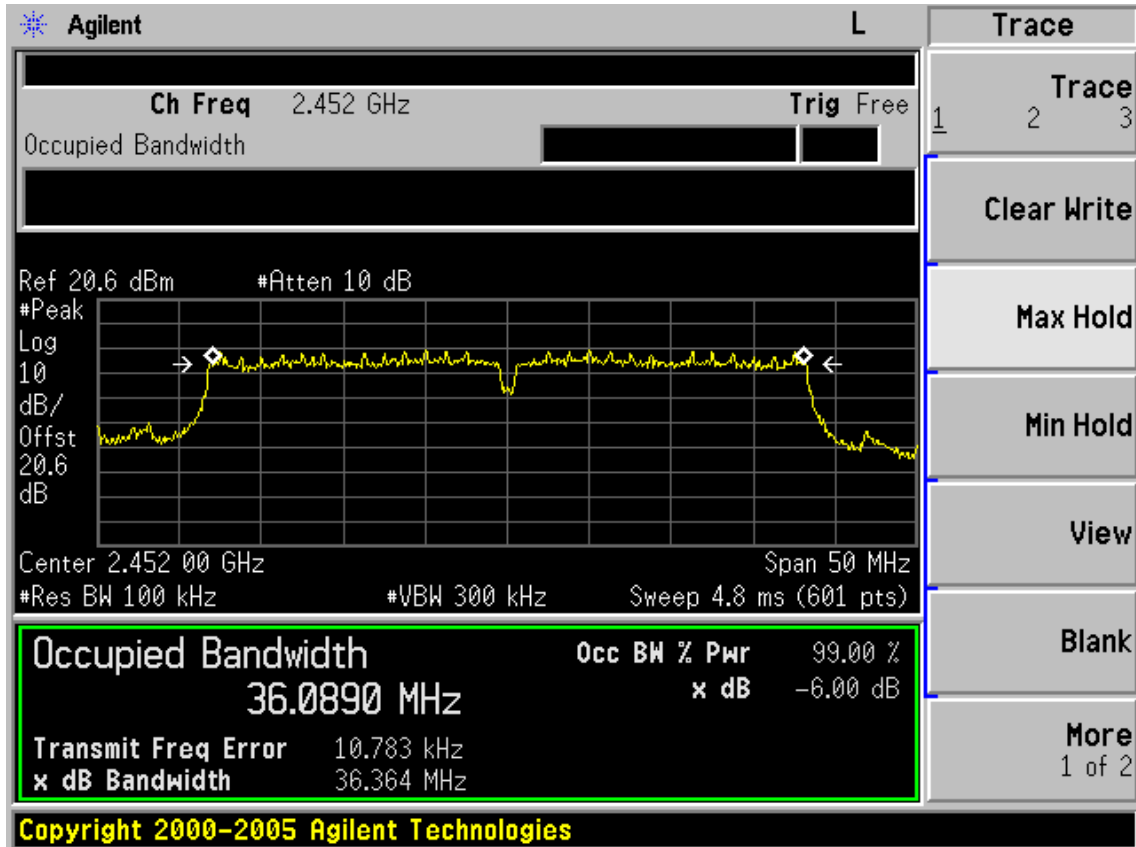
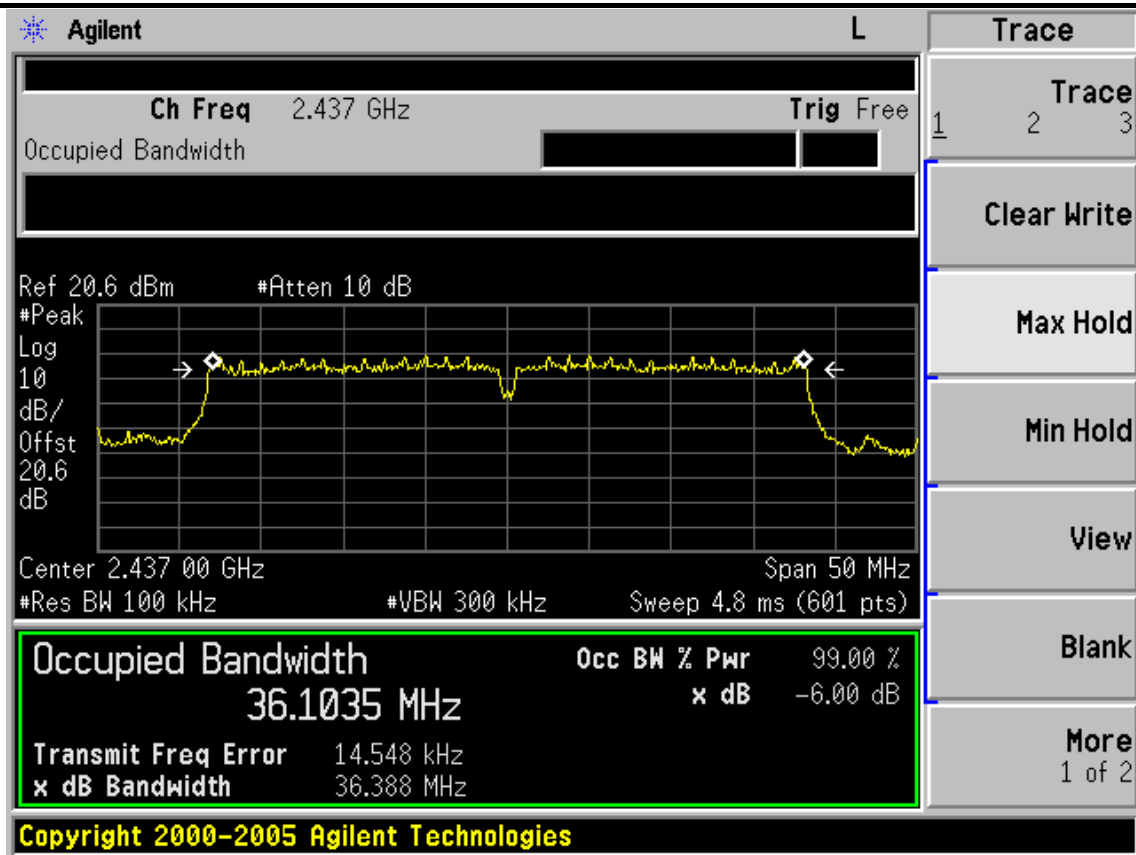
Test Mode: IEEE 802.11n HT20 TX





Test Mode: IEEE 802.11n HT40 TX





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	Oct.20.09	1Year
2.	Power sensor	Anritsu	MA2491A	0033005	Oct.20.09	1Year
3.	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May.08,10	1Year
5.	Spectrum Analyzer	Agilent	E4446A	US44300459	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 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'

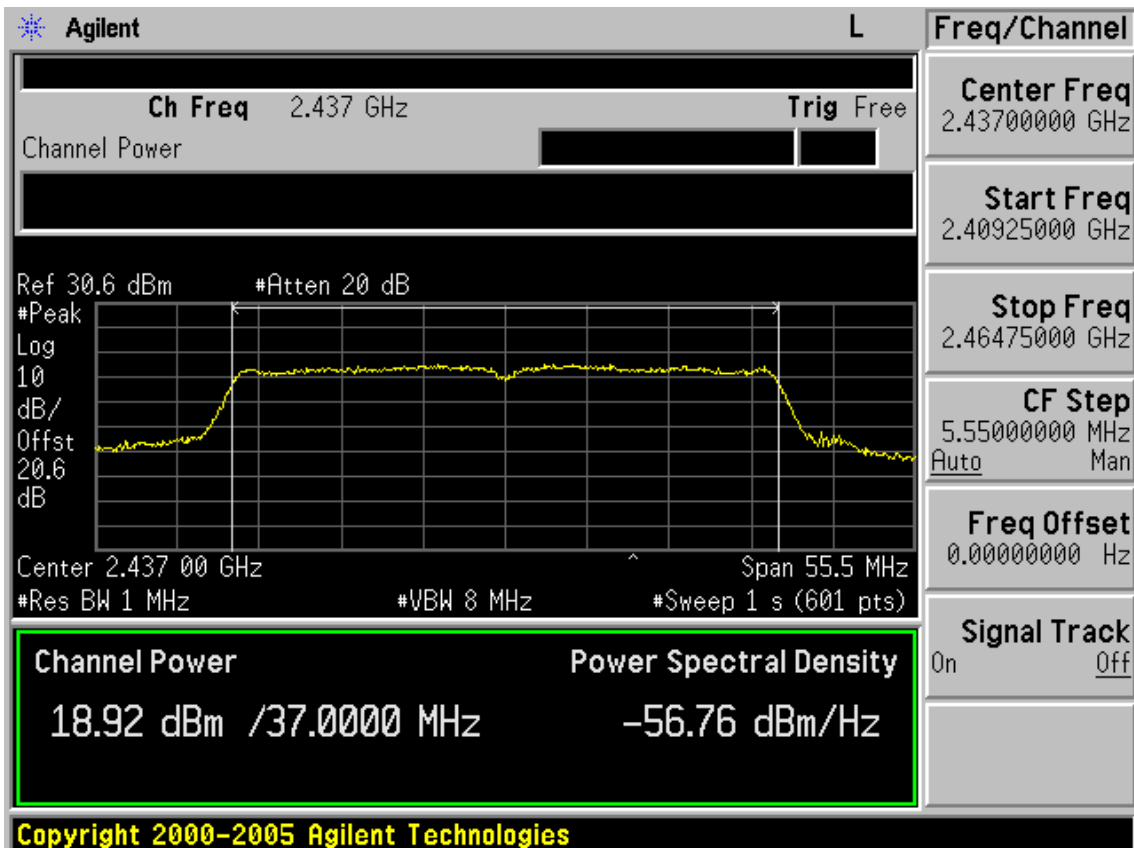
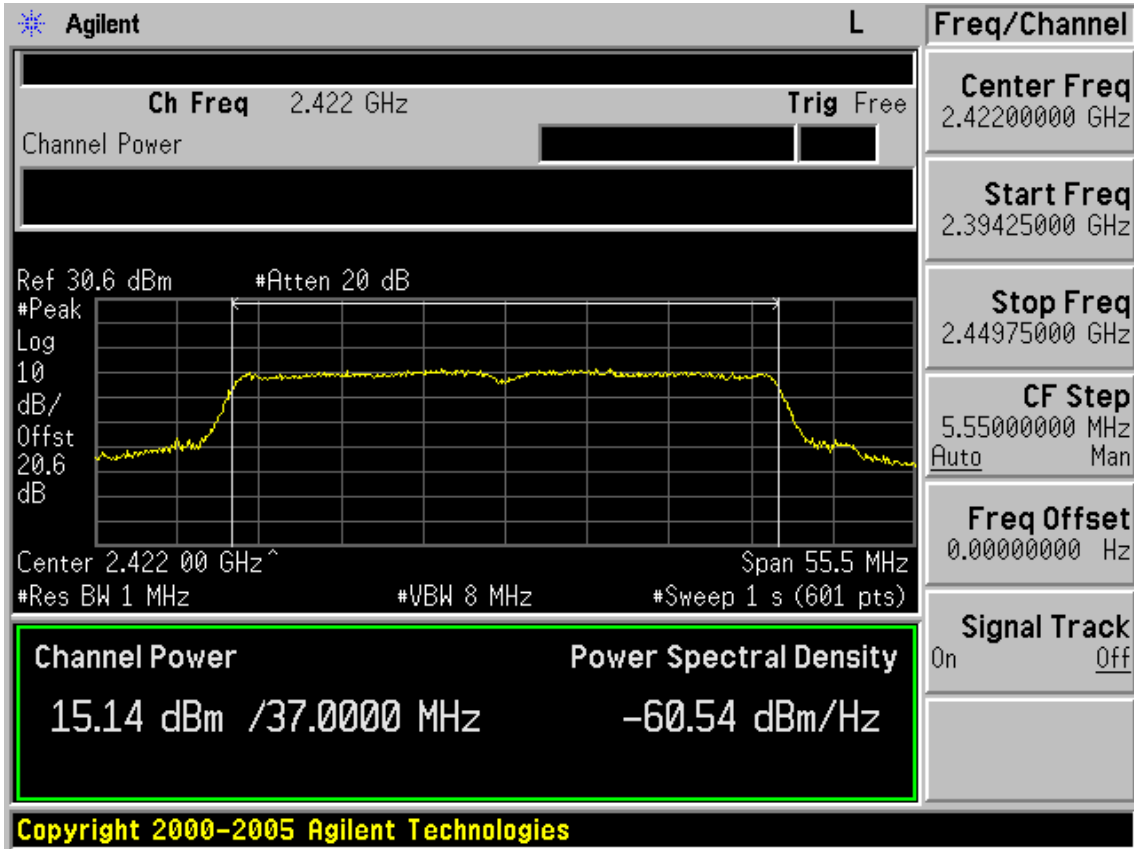
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

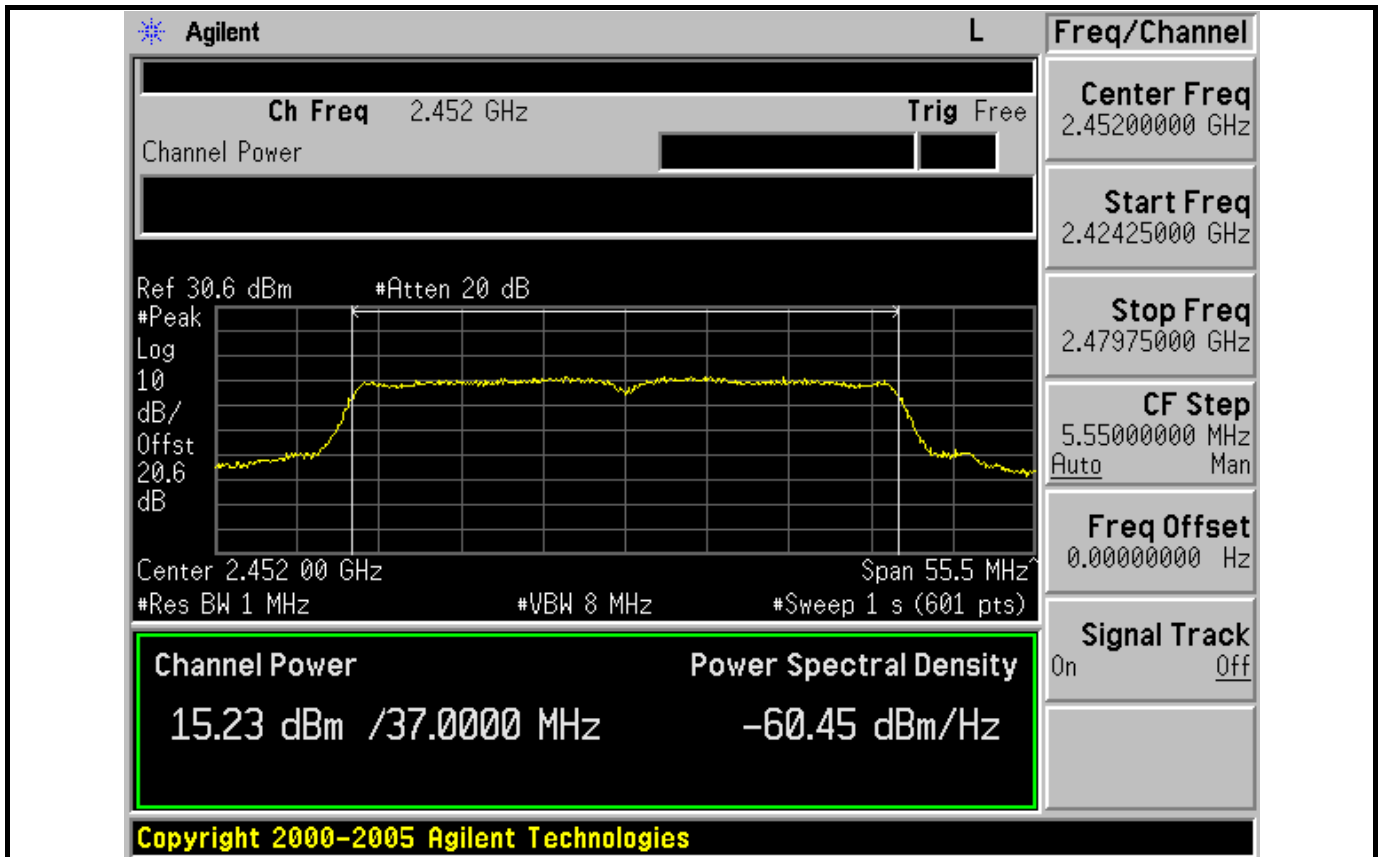
8.4. Test Results

EUT: Wireless N 150 Router		
M/N:DIR-524		
Test date:2010-09-15	Pressure: 100.6 kpa	Humidity: 60 %
Tested by:Sunny-lu	Test site: RF Site	Temperature: 25 °C

Cable loss: 0.6dB		Attenuator loss: 20 dB	Antenna Gain: 2 dBi
Test Mode	CH	Peak output Power (dBm)	Limit (dBm)
11b	CH1	23.46	30
	CH6	23.39	30
	CH11	23.59	30
11g	CH1	20.98	30
	CH6	22.34	30
	CH11	20.85	30
11n HT20	CH1	20.72	30
	CH6	21.89	30
	CH11	20.64	30
11n HT40	CH1	15.14	30
	CH4	18.92	30
	CH7	15.23	30
Conclusion: PASS			

Test Mode: IEEE 802.11n HT40





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	1Year

9.2. Limit

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

9.3. Test Procedure

- 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.

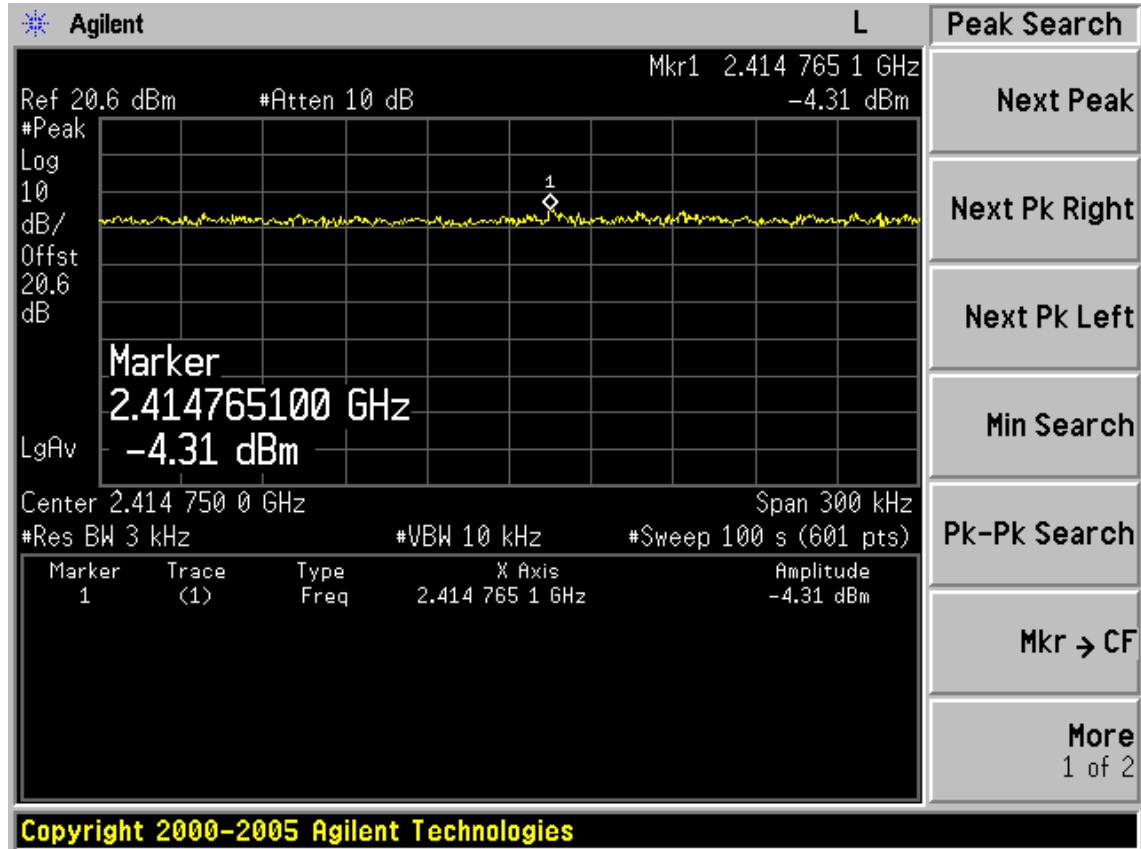
9.4.Test Results

EUT:Wireless N 150 Router		
M/N:DIR-524		
Test date:2010-09-15	Pressure: 100.6 kpa	Humidity: 60 %
Tested by:Sunny-lu	Test site: RF Site	Temperature: 25°C

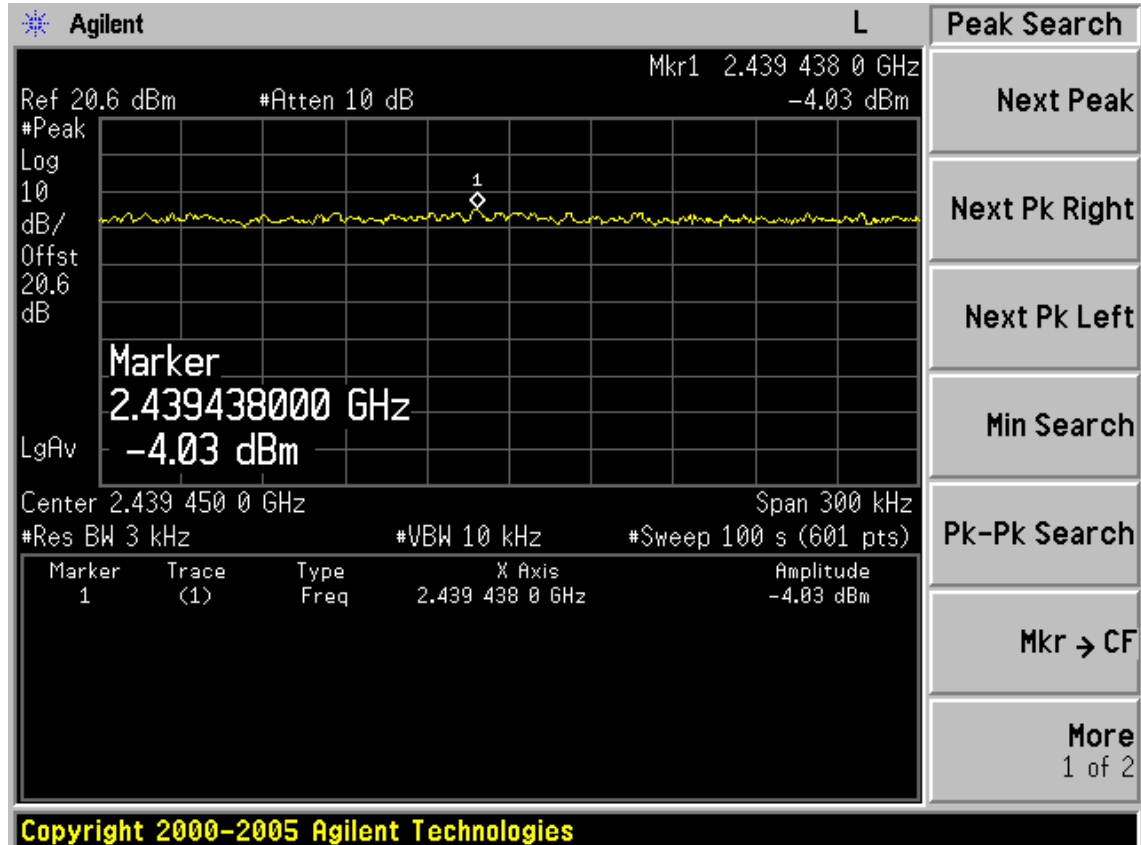
Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 2 dBi
Test Mode	CH	Power density (dBm/3KHz)	Limit (dBm/3KHz)
11b	CH1	-4.31	8
	CH6	-4.03	8
	CH11	-4.59	8
11g	CH1	-11.16	8
	CH6	-9.09	8
	CH11	-12.42	8
11n HT20	CH1	-10.71	8
	CH6	-8.06	8
	CH11	-10.35	8
11n HT40	CH1	-18.32	8
	CH4	-15.22	8
	CH7	-18.55	8

Conclusion: PASS

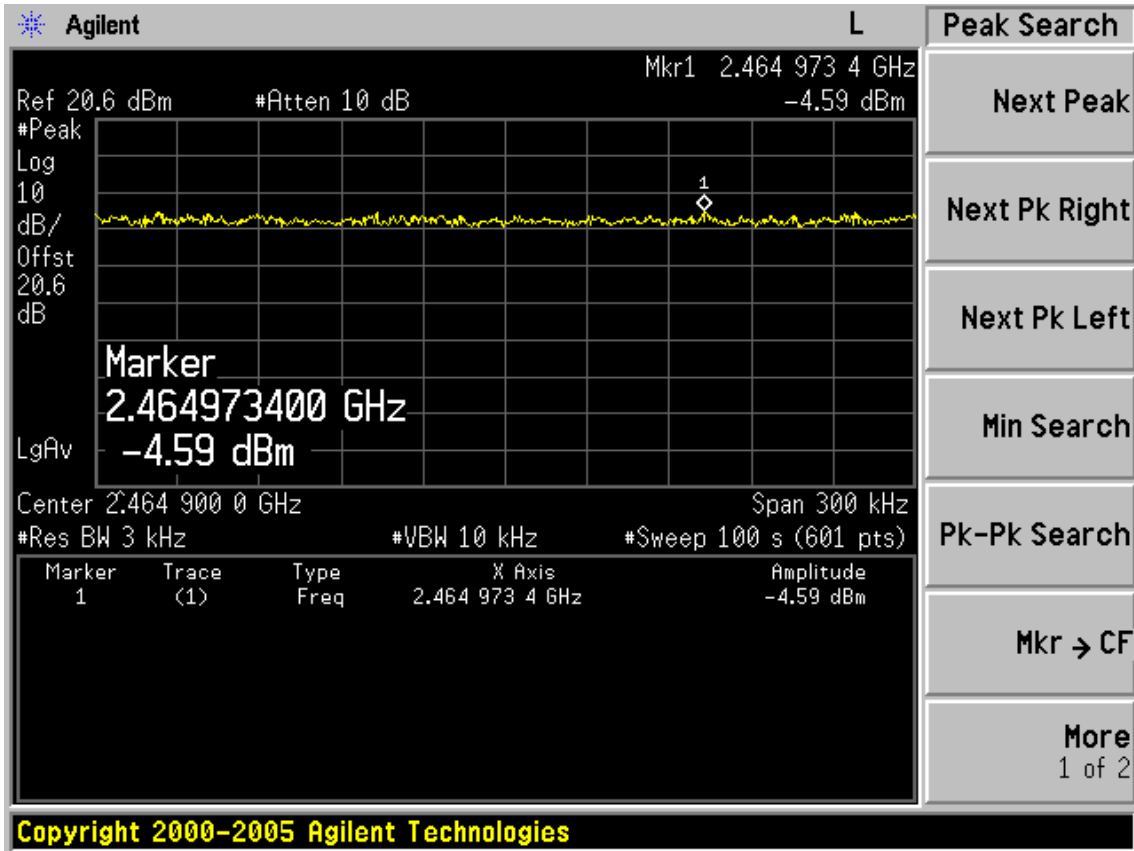
Test Mode: IEEE 802.11b TX Test CH1



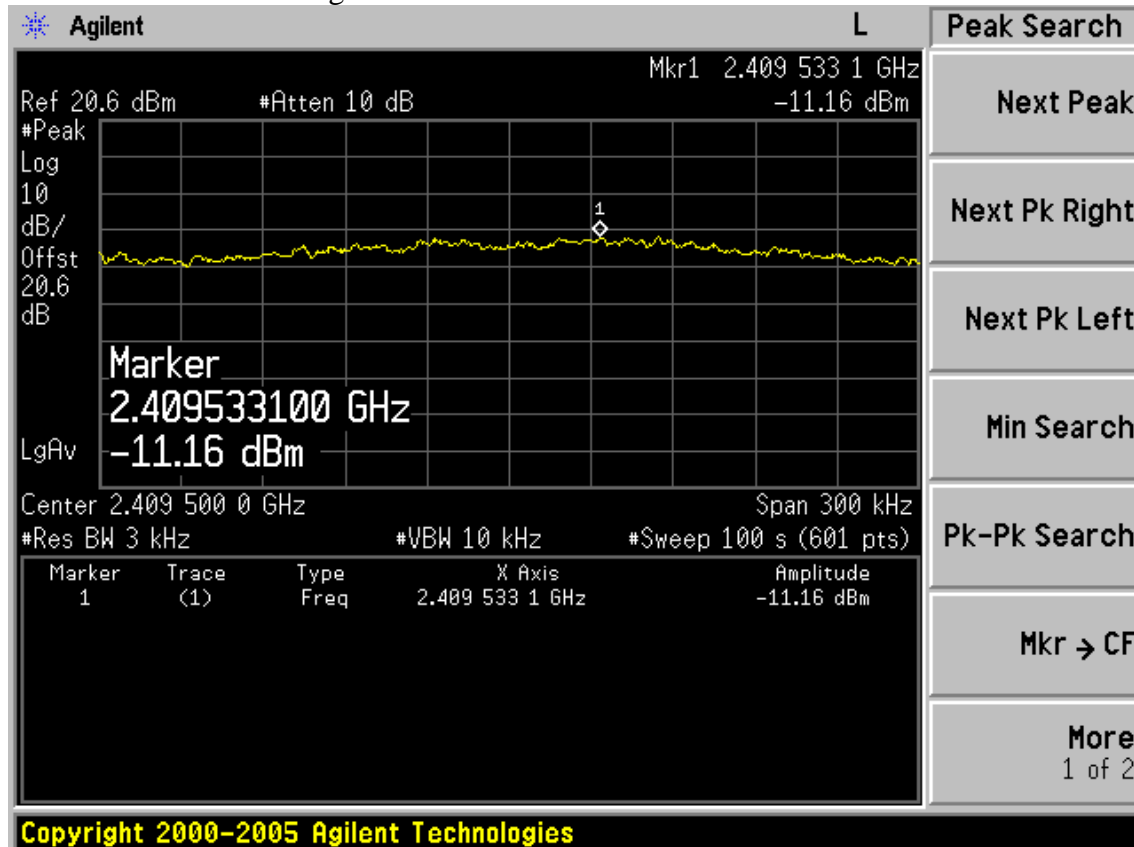
Test CH6

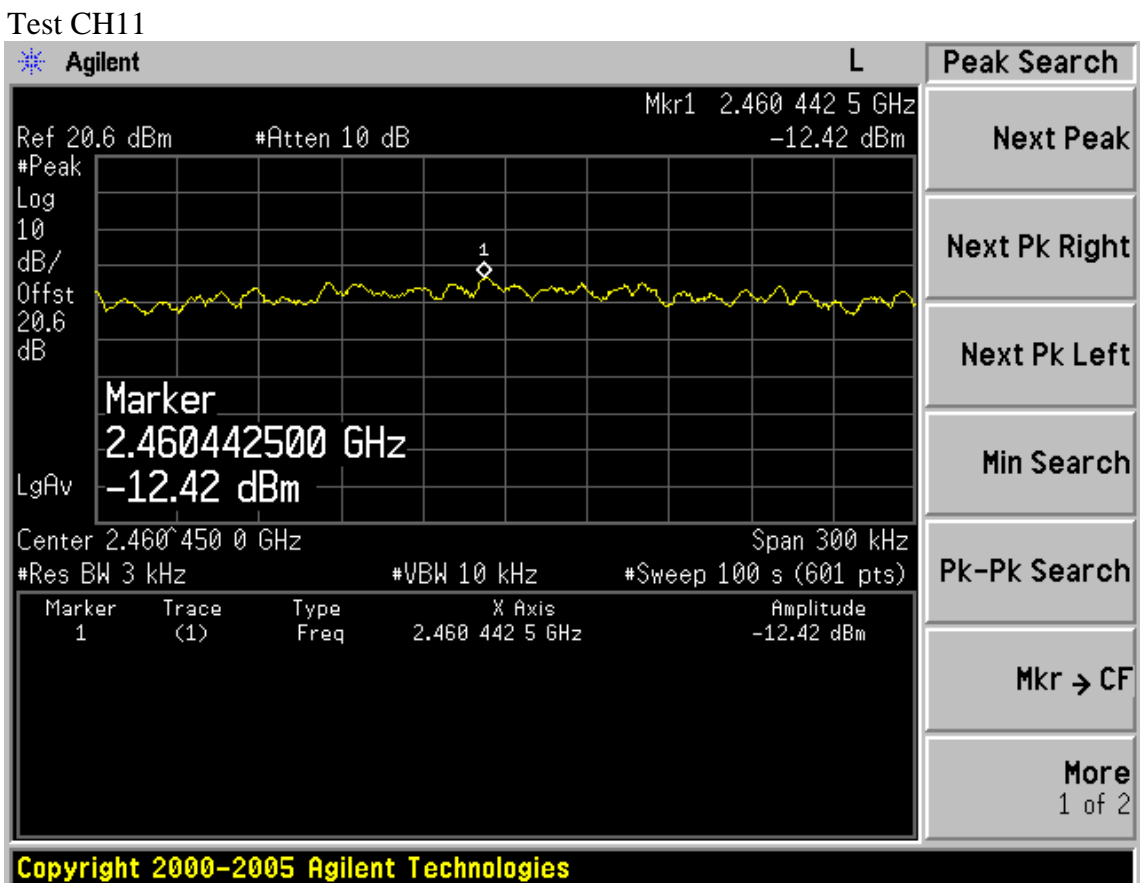
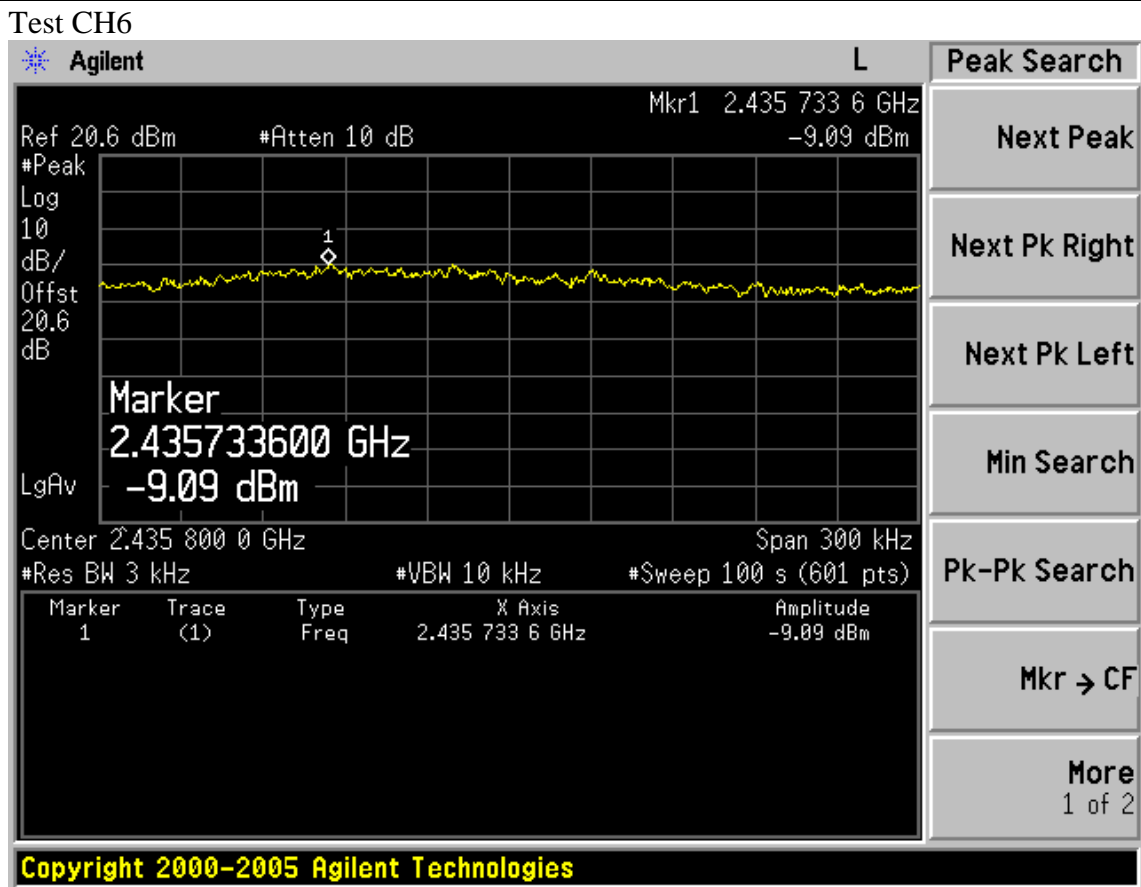


Test CH11

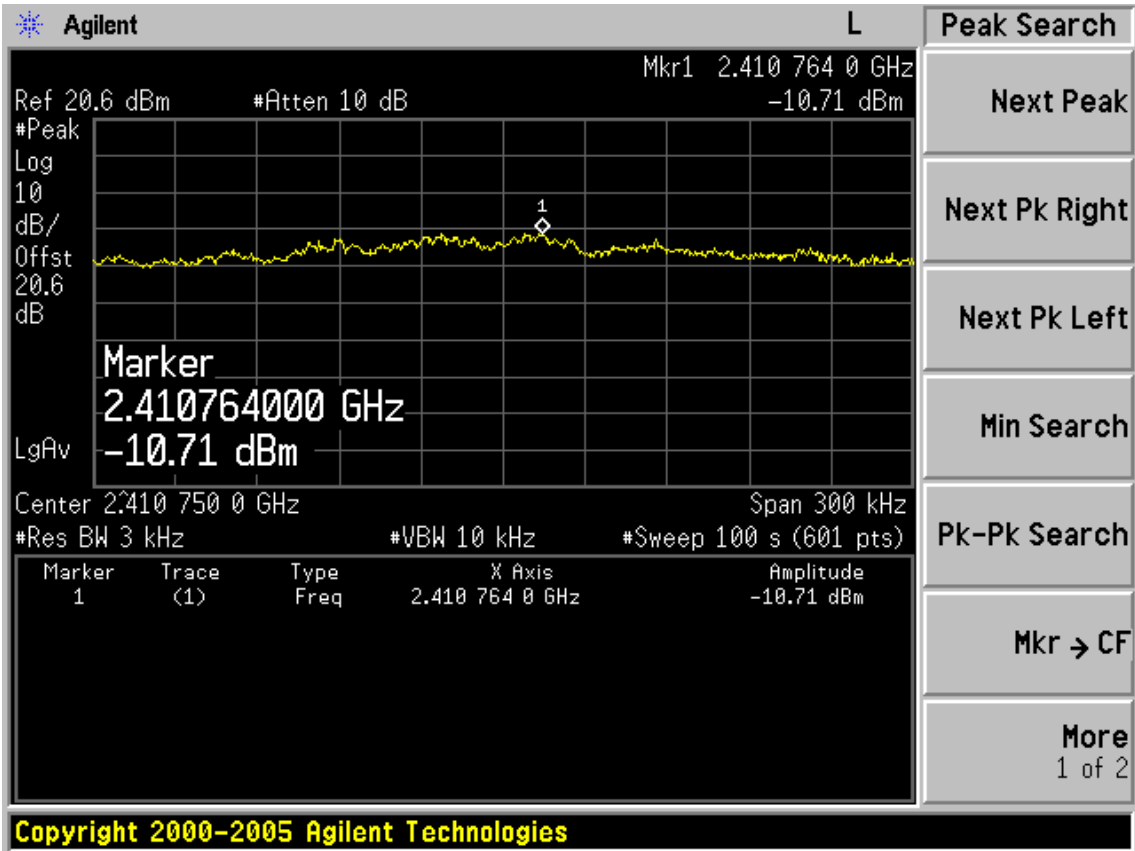


Test Mode: IEEE 802.11g TX Test CH1

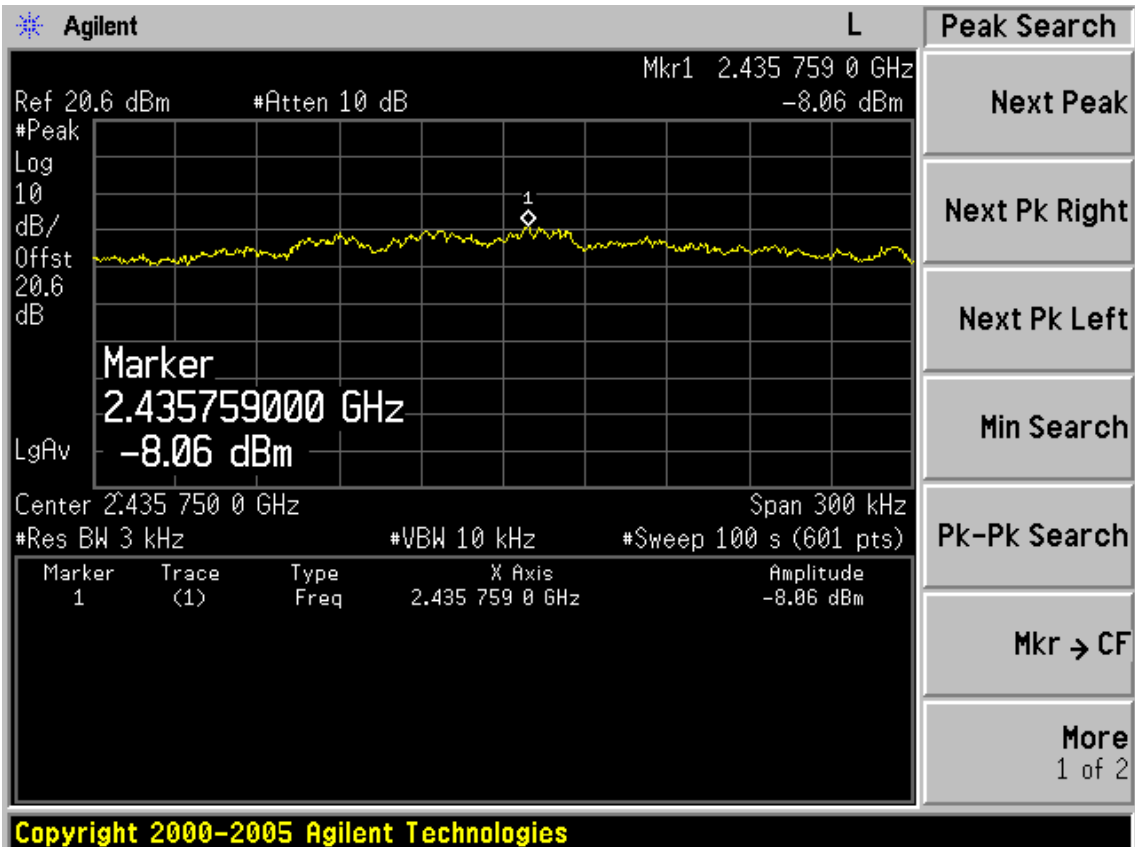




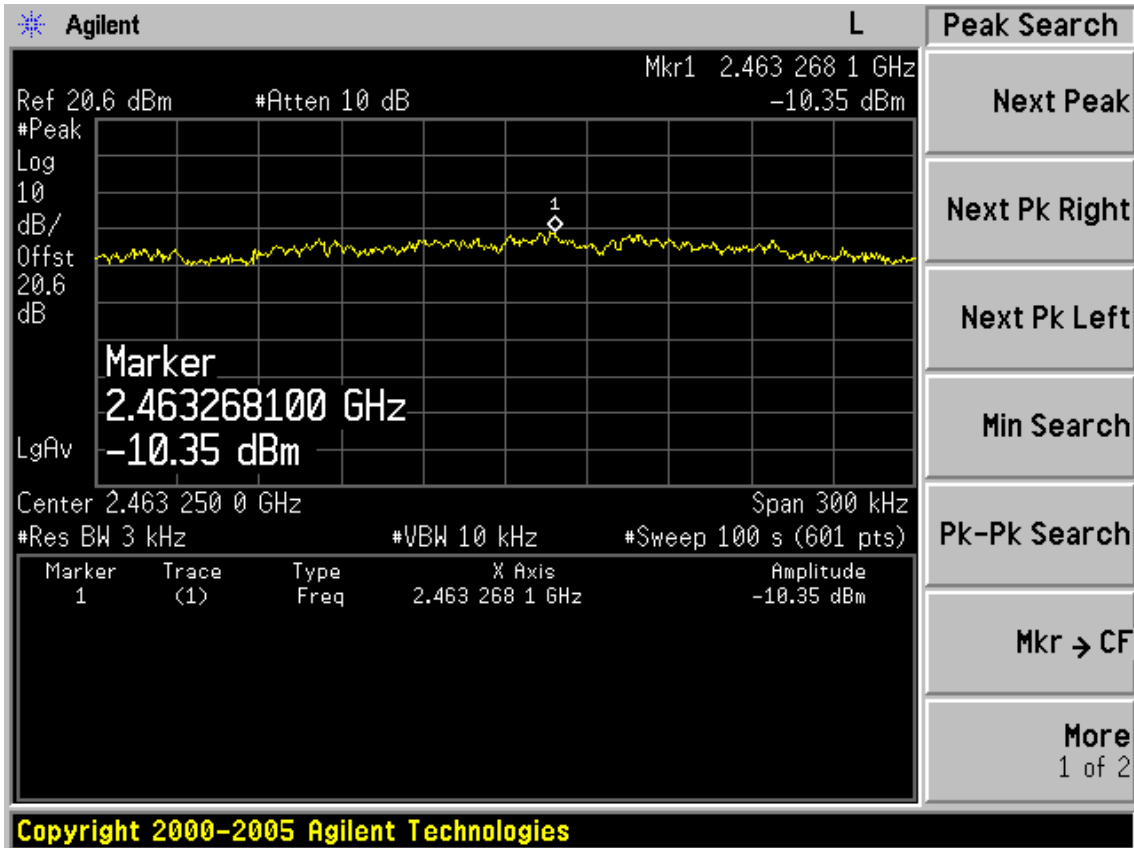
Test Mode: IEEE 802.11nHT20 TX Test CH1



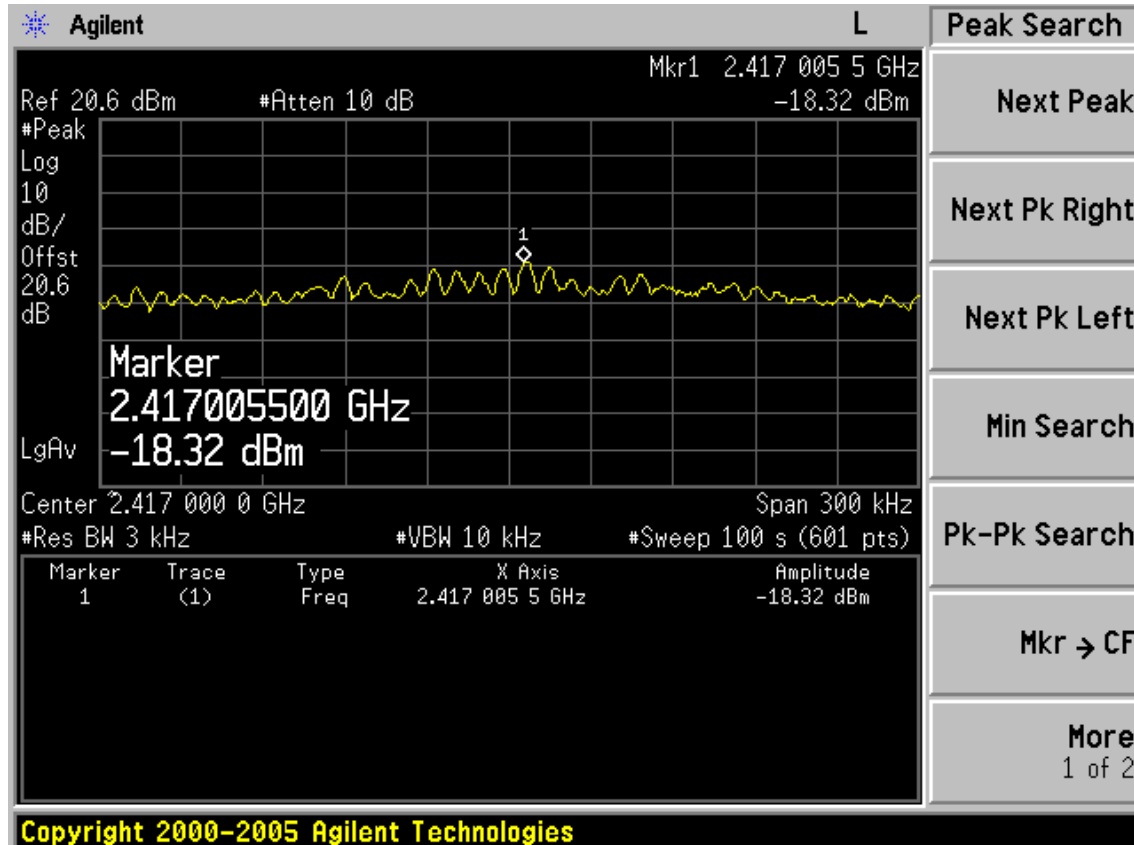
Test CH6

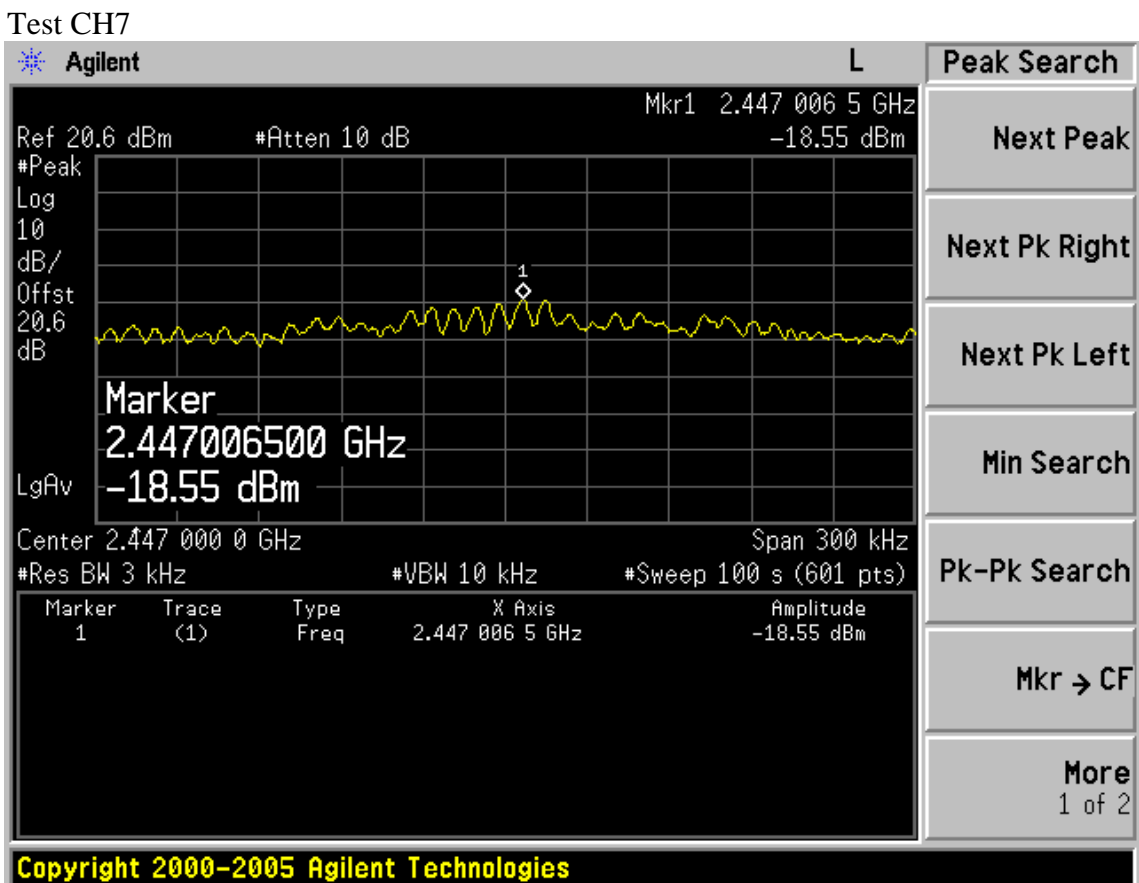
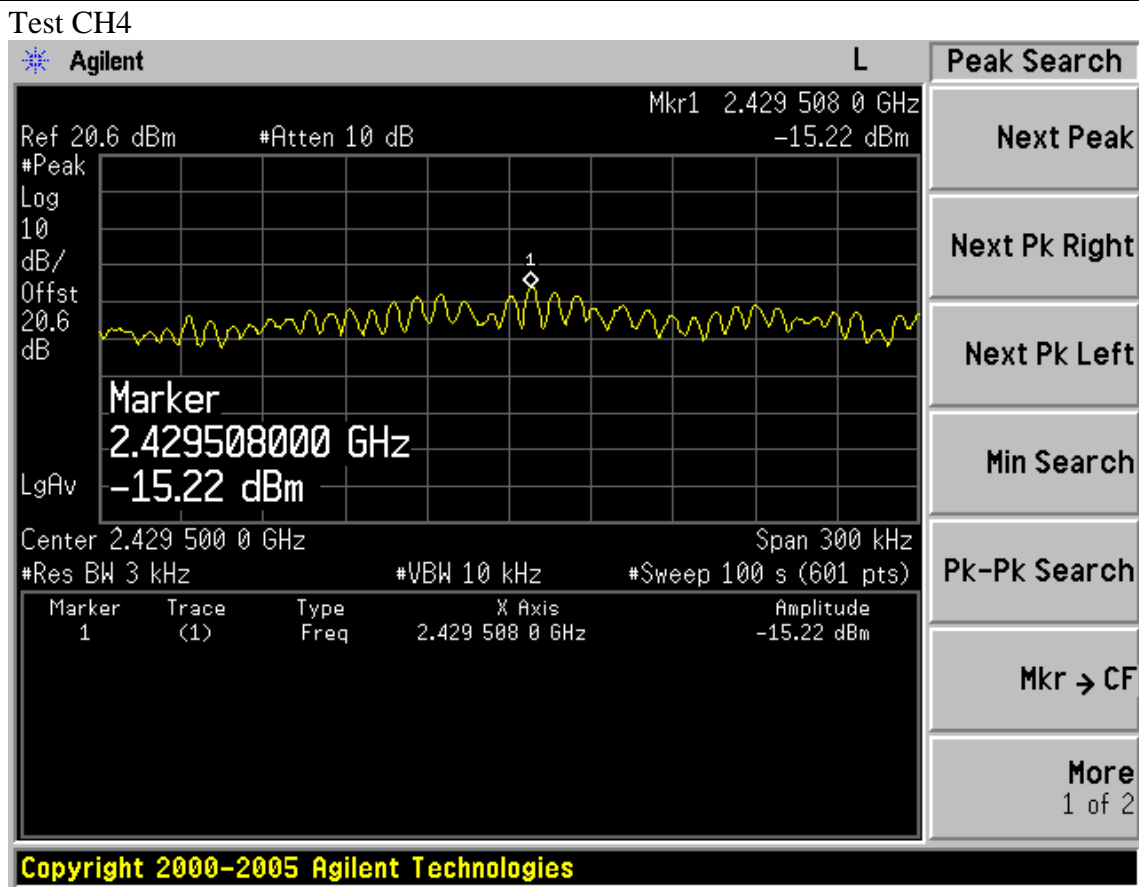


Test CH11



Test Mode: IEEE 802.11nHT40 TX Test CH1





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 and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2dBi.

11.DEVIATION TO TEST SPECIFICATIONS

[NONE]