APPLICATION FOR CERTIFICATION

On Behalf of

ASUSTek Computer INC.

Wireless ADSL Gateway

Model No. : DSL-N10

Brand : ASUS

FCC ID : MSQDSLN10

Prepared for

ASUSTek Computer INC.
No.15, Li-Te Rd., Peitou, Taipei 112, Taiwan

Prepared by

Audix Technology (Wujiang) Co., Ltd. EMC Dept.
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Report Number : ACWE-F1102006

Date of Test : May 17, 2011

Date of Report : May 18, 2011

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Description Page

TEST REPORT CERTIFICATION

Applicant	:	ASUSTek Computer INC.
Manufacturer	:	Askey Technology (Jiangsu) Ltd.
EUT Description	:	Wireless ADSL Gateway
FCC ID	:	MSQDSLN10
(A) Model No.	:	DSL-N10
(B) Brand	:	ASUS
(C) Power Supply	:	DC 12V, 1.0A
(D) TEST VOLTAGE	:	AC 120V, 60Hz (Via Adapter)

Applicable Standards:

FCC RULES AND REGULATIONS PART 15 SUBPART C, Oct. 2010
ANSI C63.10/2009

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept.to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C section 15.207, 15.205, 15.209&15.247 limits.

The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept.is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Date of Test: May 17, 2011 Date of Report: May 18, 2011

Prepared by : Candy Tang
(Candy Tang/Senior Assistant)

Reviewer : Kin Lin
(Kin Lin/Deputy Manager)

Approved & Authorized Signer : Allen Wang
(Allen Wang/Senior Manager)

1. SUMMARY OF MEASUREMENTS AND RESULTS

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

Description of Test Item	Standard	Results
CONDUCTED EMISSION	Section 15.207	PASS
RADIATED EMISSION	Section 15.209& Section 15.205	PASS
6 dB BANDWIDTH	Section 15.247(a)(2)	PASS
MAXIMUM PEAK OUTPUT POWER	Section 15.247(b)(3)	PASS
BAND EDGES	Section 15.247(d)	PASS
POWER SPECTRAL DENSITY	Section 15.247(e)	PASS
EMISSION LIMITATIONS	Section 15.247(d)	PASS
MPE CALCULATION	Part 2: Section 2.1091	PASS

Note1: Pre-scan has been conducted to determine the worst-case mode from all available data rates. Following data rates was selected for the final test as listed below.

Mode	Data Rate (Mbps)
802.11b	11
802.11g	6
802.11n HT20	MCS1 13
802.11n HT40	MCS6 121.5

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	Wireless ADSL Gateway
Model No.	:	DSL-N10
FCC ID	:	MSQDSLN10
Brand	:	ASUS
Applicant	:	ASUSTek Computer INC. No.15, Li-Te Rd., Peitou, Taipei 112, Taiwan
Manufacturer	:	Askey Technology (Jiangsu) Ltd. No.1388, Jiao Tong Road, Wujiang Economic -Technological Development Area, Jiangsu Province, P.R.C.
Radio Technology	:	DSSS &OFDM
Antenna Gain	:	5.0dBi
Type of Network	:	IEEE 802.11b/g/n
Fundamental Range	:	2412MHz ~ 2462MHz 2422MHz ~ 2452MHz
Tested Frequency	:	IEEE 802.11b/g/n(HT 20) 2412 MHz(Channel 1) 2437MHz (Channel 6) 2462 MHz(Channel 11) IEEE 802.11n (HT 40) 2422 MHz(Channel 3) 2437MHz (Channel 6) 2452 MHz(Channel 9)
Date of Receipt of Sample	:	Feb.12, 2011
Date of Test	:	May 17, 2011

2.1.1. Differences of Samples

Sample No. / Difference	#1	#2	#3
DC In	Y	Y	Y
RJ-45	Y	Y	Y
RJ-11	Y	Y	Y
Transformer	Mentech/ LAL2009	LinkCom/ EP-025DG	Mentech/ EP-132DG
Layout	Same		
Appearance	Same		
Adapter	Same		
Remark：The Sample #3 is representative and record in this report.			

2.2. EUT's Configuration

List of Interface Ports of EUT	:	DC In Port×1 RJ-45 LAN Port ×4 RJ-11 Telecom Port ×1
RJ-45 Cable	:	Unshielded, Detachable, 1.8m
RJ-11 Cable	:	Unshielded, Detachable, 5.0m
AC adapter	:	Brand: LEI M/N: MU12-N120100-A1 Input: 100-240V~50/60Hz, 0.5A Output: 12V, 1.0A DC Cord: Unshielded, Undetachable, 1.83m

2.3. Operating Condition of EUT

2.3.1. Set up the EUT as test setup diagram.

2.3.2. For conducted or radiated emission measurement, setup the EUT as the test condition; turn on all the equipment, Drive the test software "QA_RT3052-V1.0.1.6", let EUT operate normal activity.

2.3.3. For other measurement items, keep the EUT powered by AC adapter, Drive the test software "QA_RT3052-V1.0.1.6", let the EUT operate wireless TX activity under measurement.

2.4. Description of Test Facility

Name of Firm	:	**Audix Technology (Wujiang) Co., Ltd. EMC Dept.**
Site Location	:	No. 1289 Jiangxing East Road, the Eastern Part of Wujiang Economic Development Zone Jiangsu China 215200
Test Facilities	:	**No.1 3m semi-anechoic chamber** Date of Validity: Aug. 20, 2012 Registration No.**:** 897661 **No. 1 conducted shielding enclosure**
NVLAP Lab Code	:	200786-0 (NVLAP is a NATA accredited body under Mutual Recognition Agreement) Valid until on Sep.30, 2011
DAR-Registration No.	:	DAT-P-264/07-00 Valid until on Dec.14, 2012

2.5. Measurement Uncertainty

Test Item	Range Frequency	Uncertainty
Conducted Disturbance Measurement	0.15MHz ~ 30MHz	± 2.76dB
Radiated Disturbance Measurement (At 3m Chamber)	30MHz ~ 1000MHz	± 4.56dB
	Above 1GHz	± 4.55dB

Remark: Uncertainty = $ku_c(y)$

Test Item	Uncertainty
6 dB Bandwidth	± 2.8×10^{-6} MHz
Maximum Peak Output Power	± 0.33dB
Band Edges	± 0.208dB
Power Spectral Density	± 0.34dB
Emission Limitations	± 0.208dB
Temperature	±0.416℃
Humidity	±3.16%

Remark: Uncertainty = $ku_c(y)$

2.6. Antenna System

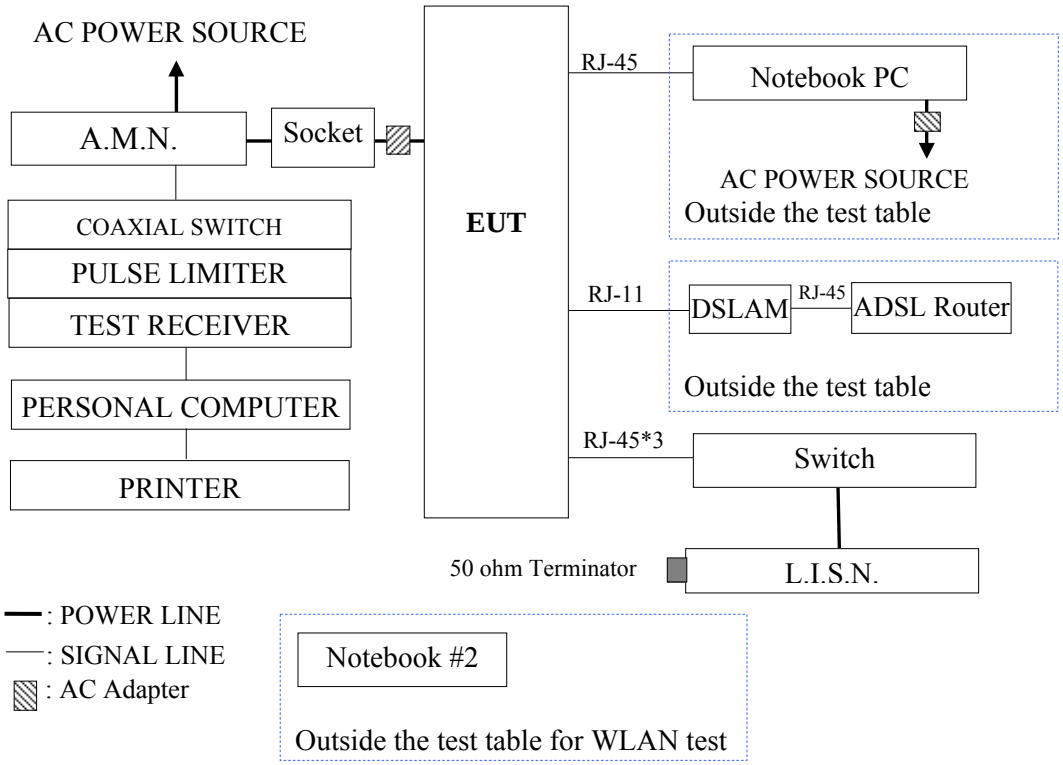
The EUT Antenna is dipole Antenna system. The antennas connect to the EUT via a MHF antenna connector, there by meeting the requirements of FCC 15.203.

3. CONDUCTED EMISSION MEASUREMET

3.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCI	100352	2011-01-05	2012-01-04
2.	A.M.N	R & S	ESH2-Z5	100153	2011-03-25	2012-03-24
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1793-4	2010-08-11	2011-08-10
4.	Pulse Limiter	R&S	ESH3-Z2	100605	2010-08-11	2011-08-10
5.	50Ω Coaxial Switch	Anritsu	MP59B	6200547934	2010-08-14	2011-08-13
6.	50ohm Terminator	N/A	N/A	N/A	2011-03-25	2012-03-24
7.	RF Cable	Harbour Industries	RG400	002	2010-08-14	2011-08-13

3.2. Block Diagram of Test Setup



3.3. Power line Conducted Emission Limit (FCC Part15 section 15.207)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark1: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: The lower limit applies at the band edges.

3.4. Test Procedure

The measuring process is according to ANSI C63.10 and laboratory internal procedure TKC-301-015.

In the conducted emission measurement, the EUT and all peripheral devices were set up on a non-metallic table which was 0.8 meters height above the ground plane, and 0.4 meters far away from the vertical plane. The EUT (installed in PC system) was powered by AC mains through Artificial Mains Network (A.M.N), other peripheral devices were powered by AC mains through the second Line Impedance Stabilization Network (L.I.S.N). For the measurement, the A.M.N measuring port was terminated by a 50Ω measuring equipment and the second L.I.S.N measuring port was terminated by a 50Ω resistive load. All measurements were done on the phase and neutral line of the EUT's power cord. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver was set at 9 kHz.

The required frequency band (0.15 MHz ~ 30 MHz) was pre-scanned with peak detector, the final measurement was measured with quasi-peak detector and average detector. (If the average limit is met when using a quasi-peak detector, the average detector is necessary).

The emission level is calculated automatically by the test system which uses the following equation:

Emission level (dBμV) = Meter-Reading (dBμV) + A.M.N factor (dB) + Cable loss (dB).

(Cable loss include pulse limiter loss)

3.5. Conducted Emission Measurement Results

PASSED.

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

EUT was performed during this section testing and all the test results are attached in next pages.

Test Date：May 17, 2011 Temperature：23.7℃ Humidity：52%

Mode	Test Condition	Reference Test Data No.	
		Neutral	Line
1	Ping Test	# 20	# 19

NOTE - The worst emission is detected at 0.16 MHz with emission level of 55.99dB (μV) with QP detector (limit is 65.52dB (μV)), when the Line of the EUT is connected to A.M.N.

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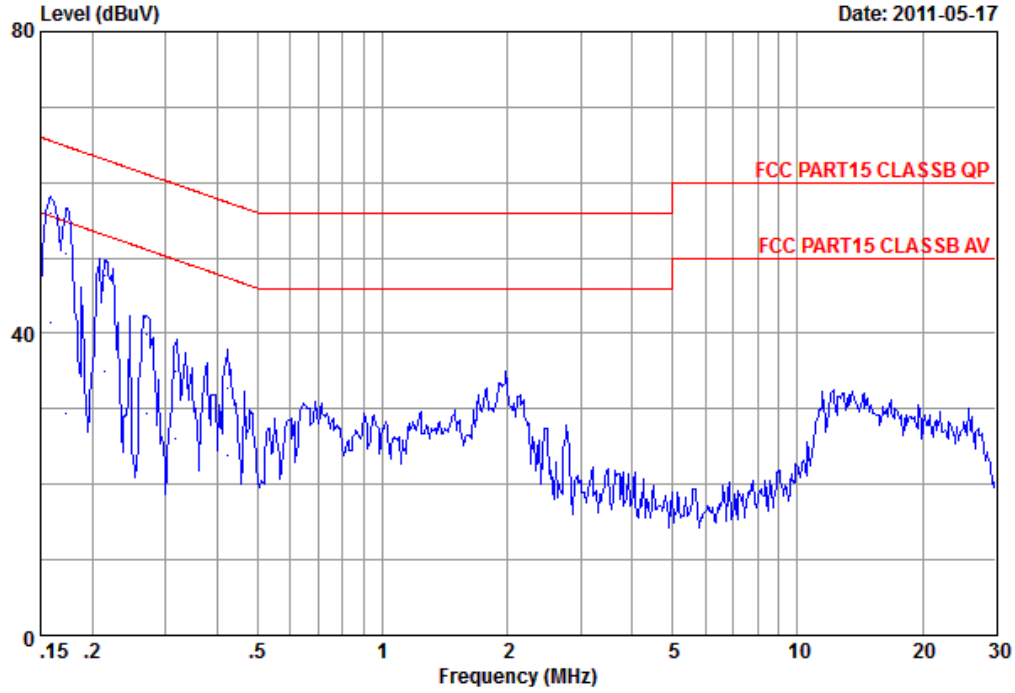
Data: 19 File: F:\2011Test Data\Report\G1102001-G1102050\G1102008.EM6 (24)



Site no.	: NO.1 Condunted Shielding Enclosurse	Data no.	: 19
AMN/LISN	: ESH2-Z5(100153)-1103	Phase	: LINE
Limit	: FCC PART15 CLASSB QP		
Env. / Ins.	: 23.7*C&52%/ESCI	Engineer	: Kevin
EUT	: Wireless ADSL Gateway		
M/N	: DSL-N10		
Power Rating	: 120Vac/60Hz		
Test mode	: Normal Operating(Ping Test)		
Memo	: Sample3		
	Adapter:MU12-N120100-A1		

	Freq (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.23	9.85	45.91	55.99	65.52	9.53	QP
2	0.16	0.23	9.85	31.31	41.39	55.52	14.13	Average
3	0.17	0.24	9.85	40.40	50.49	64.82	14.33	QP
4	0.17	0.24	9.85	19.40	29.49	54.82	25.33	Average
5	0.21	0.25	9.85	37.50	47.60	63.05	15.45	QP
6	0.21	0.25	9.85	24.90	35.00	53.05	18.05	Average
7	0.27	0.26	9.84	29.70	39.80	61.15	21.35	QP
8	0.27	0.26	9.84	19.30	29.40	51.15	21.75	Average
9	0.32	0.26	9.84	15.90	26.00	49.76	23.76	Average
10	0.32	0.26	9.84	24.80	34.90	59.76	24.86	QP
11	0.42	0.27	9.84	13.80	23.91	47.37	23.46	Average
12	0.42	0.27	9.84	22.60	32.71	57.37	24.66	QP

Note: 1.Emission Level= AMN Factor + Cabel Loss + Reading.
2.If the average Limit is met when useing a quasi-peak detector,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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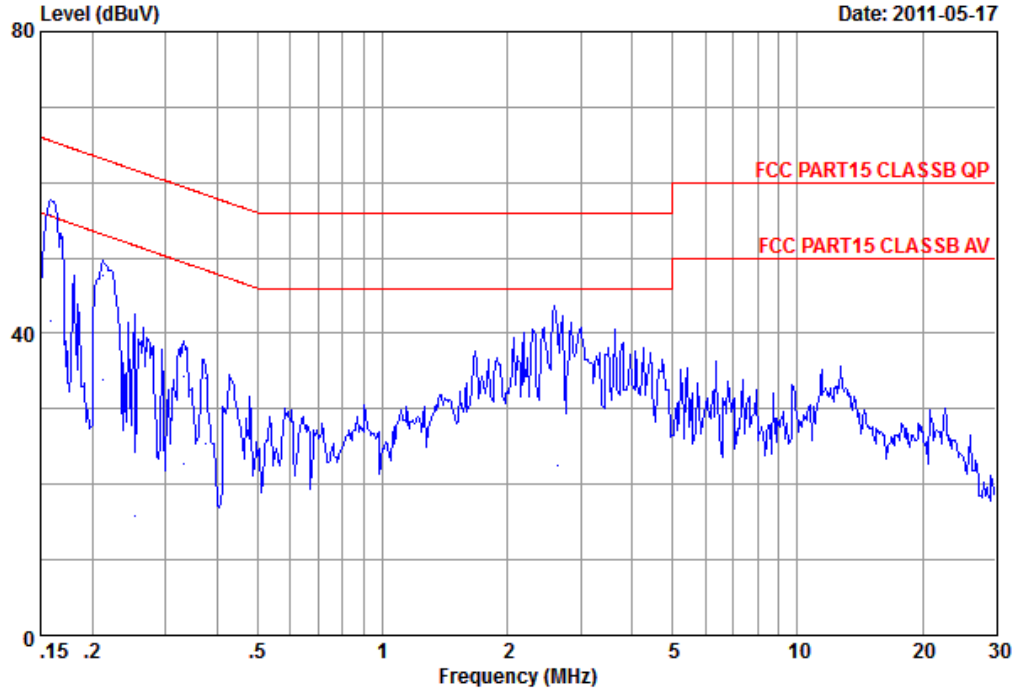


Site no.	: NO.1 Condunted Shielding Enclosurse	Data no.	: 20
AMN/LISN	: ESH2-Z5(100153)-1103	Phase	: NEUTRAL
Limit	: FCC PART15 CLASSB QP		
Env. / Ins.	: 23.7*C&52%/ESCI	Engineer	: Kevin
EUT	: Wireless ADSL Gateway		
M/N	: DSL-N10		
Power Rating	: 120Vac/60Hz		
Test mode	: Normal Operating(Ping Test)		
Memo	: Sample3		
	Adapter:MU12-N120100-A1		

	Freq (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.12	9.85	45.80	55.77	65.52	9.75	QP
2	0.16	0.12	9.85	31.60	41.57	55.52	13.95	Average
3	0.21	0.12	9.85	37.70	47.67	63.13	15.46	QP
4	0.21	0.12	9.85	24.00	33.97	53.13	19.16	Average
5	0.25	0.13	9.84	21.00	30.97	61.69	30.72	QP
6	0.25	0.13	9.84	5.80	15.77	51.69	35.92	Average
7	0.33	0.14	9.84	24.40	34.38	59.40	25.02	QP
8	0.33	0.14	9.84	12.70	22.68	49.40	26.72	Average
9	0.37	0.14	9.84	24.10	34.08	58.41	24.33	QP
10	0.37	0.14	9.84	15.50	25.48	48.41	22.93	Average
11	2.65	0.23	9.83	12.50	22.56	46.00	23.44	Average
12	2.65	0.23	9.83	28.50	38.56	56.00	17.44	QP

Note: 1.Emission Level= AMN Factor + Cabel Loss + Reading.
2.If the average Limit is met when useing a quasi-peak detector,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION MEASUREMENT

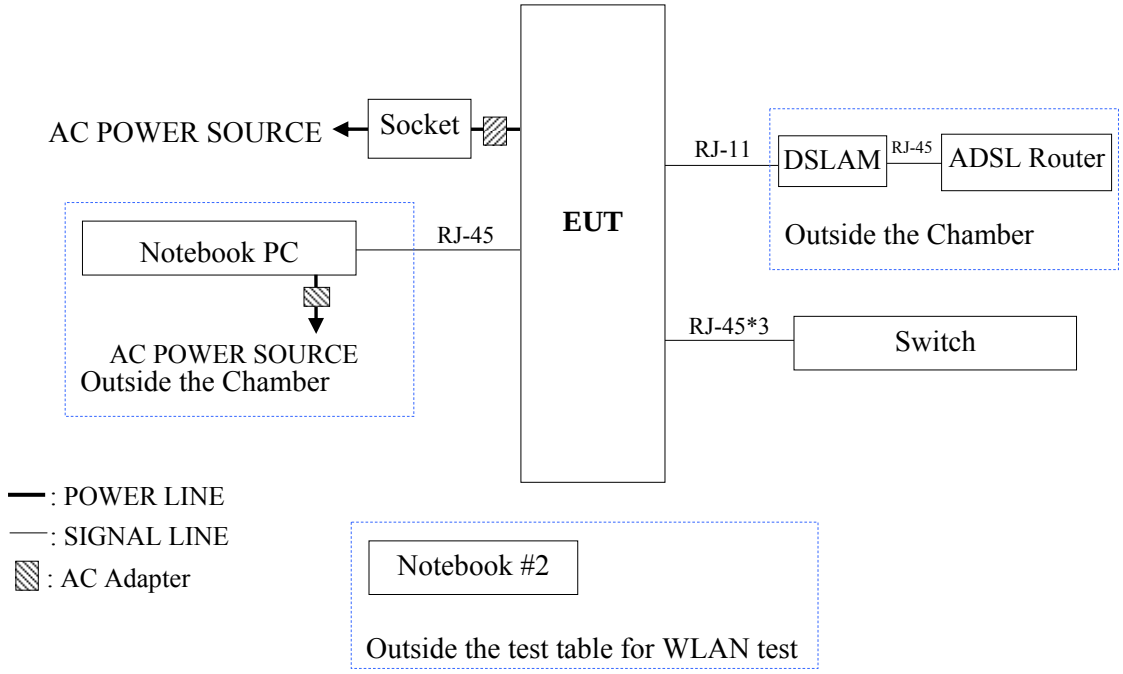
4.1. Test Equipment

The following test equipment was used during the radiated emission measurement:
At 3m Semi-Anechoic Chamber

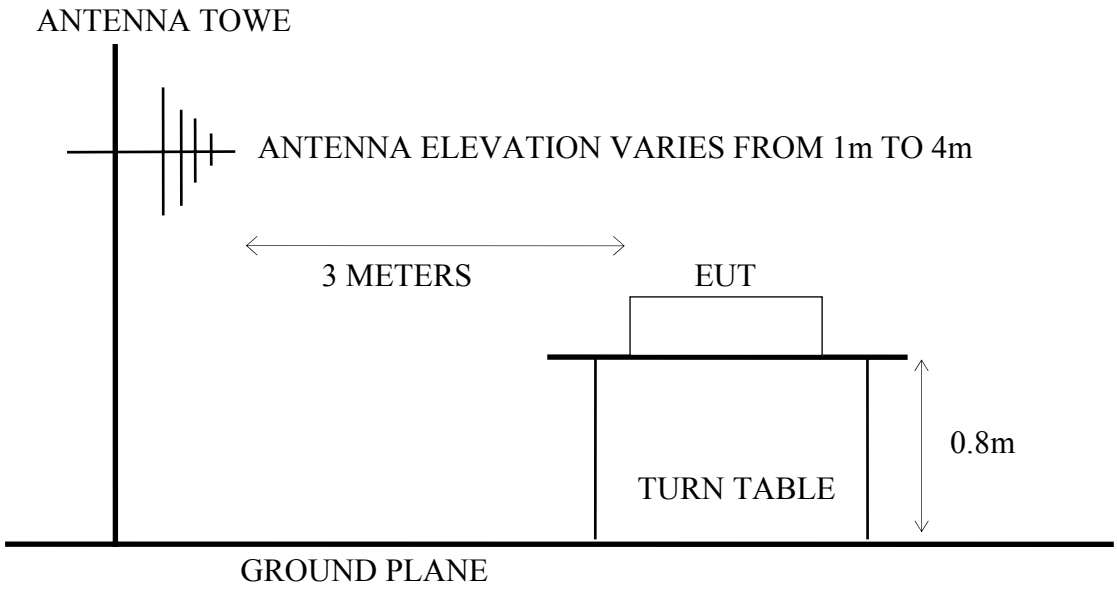
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	Agilent	8449B	2944A10921	2010-08-14	2011-08-13
2.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2011-01-08	2012-01-07
3.	Bi-log Antenna	Schaffner	CBL6112D	22251	2011-05-05	2012-05-04
4.	Test Receiver	R&S	ESCI	100361	2011-01-05	2012-01-04
5.	50Ω Coaxial Switch	Anritsu	MP59B	6200547935	2010-08-14	2011-08-13
6.	Horn Antenna (1GHz~6GHz)	ESCO	3115	00062593	2011-05-05	2012-05-04
7.	Pre-Amplifier	Agilent	8447D	2944A10918	2010-08-11	2011-08-10
8.	RF Cable #1	Yuhang CSYH	cable-3m	001 (Length: 0.5m)	2010-08-14	2011-08-13
9.	RF Cable #2	Yuhang CSYH	cable-3m	002 (Length: 0.5m)	2010-08-14	2011-08-13
10.	RF Cable #3	Yuhang CSYH	cable-3m	003 (Length: 3.0m)	2010-08-14	2011-08-13

4.2. Block Diagram of Test Setup

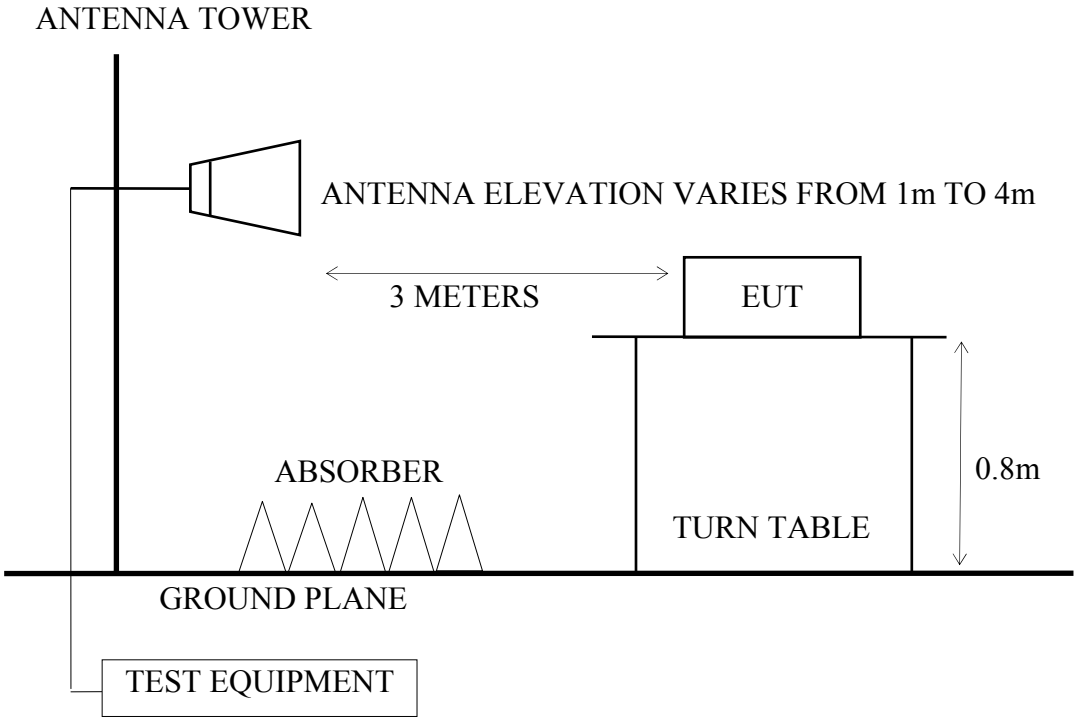
4.2.1.Block Diagram of Test Setup between EUT and simulators



4.2.2.No. 1 3m Semi-Anechoic Chamber Setup Diagram for 30-1000MHz



4.2.3.No. 1 3m Semi-Anechoic Chamber Setup Diagram for above 1GHz



4.3. Radiated Emission Limits (FCC Part15 section 15.209)

Frequency MHz	Distance Meters	Field Strengths Limits	
		μV/m	dBμV/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

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

(2) The tighter limit applies at the edge between two frequency bands.

4.4. Test Procedure

The measuring process is according to ANSI C63.10 and laboratory internal procedure TKC-301-024.

In the radiated disturbance measurement, the EUT and all simulators were set up on a non-metallic turn table which was 0.8 meters above the ground plane. Measurement distance between EUT and receiving antennas was set at 10 meters at 30MHz~1000MHz and 3 meters at above 1GHz. The specified distance is the distance between the antennas and the closest periphery of EUT. During the radiated measurement, the EUT was rotated 360° and receiving antennas were moved from 1 ~ 4 meters for finding maximum emission. Two receiving antennas were used for both horizontal and vertical polarization detection for 30MHz~1GHz, One receiving antennas was used for both horizontal and vertical polarization detection for above 1GHz (the absorbing material was added when testing of above 1GHz was done). All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver (or spectrum analyzer) was set to:

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz
RBW (1 MHz), VBW (1MHz) for Peak detector above 1GHz
RBW (1 MHz), VBW (10 Hz) for Average detector above 1GHz

The required frequency band was pre-scanned with peak detector; all final measurements were measured with quasi-peak detector below 1GHz, measured with average detector and peak detector above 1GHz.

The emission level is calculated automatically by the test system which uses the following equation：

1. For 30-1000MHz measurement:
   Emission Level (dBμV/m) = Meter-Reading (dBμV)+Antenna Factor (dB/m)+Cable Loss (dB)
2. For Above 1GHz measurement:
   Emission Level (dBμV/m) = Meter-Reading (dBμV)+Antenna Factor (dB/m)+Cable Loss(dB) -Pre-amplifier factor (dBμV)

4.5. Measurement Results

PASSED

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

4.5.1. For 30MHz~1GHz

Test Date：May 17, 2011 Temperature：20.0℃ Humidity：50%

The details of test modes and reference test data are as follows：

Mode	Test Condition	Reference Test Data No.	
		Horizontal	Vertical
1	Ping Test	# 91	# 92

4.5.2. For Above 1GHz

Test Date：May 17, 2011 Temperature：20.0℃ Humidity：50%

The details of test modes and reference test data are as follows：

Mode	Test Condition	Reference Test Data No.	
		Horizontal	Vertical
1	Ping Test	# 94	# 95

4.5.3. For Restricted Bands:

The EUT with following test modes were performed during this section testing and all the test results are listed in section 4.6.

No.	Test Mode and Frequency		
1.	Transmitting	802.11b	2412MHz (Channel 1)
2.			2437MHz (Channel 6)
3.			2462MHz (Channel 11)
4.		802.11g	2412MHz (Channel 1)
5.			2437MHz (Channel 6)
6.			2462MHz (Channel 11)
7.		802.11n HT20	2412MHz (Channel 1)
8.			2437MHz (Channel 6)
9.			2462MHz (Channel 11)
10.		802.11n HT40	2422MHz (Channel 3)
11.			2437MHz (Channel 6)
12.			2452MHz (Channel 9)

4.5.4. For Band Edge Emission

The EUT was tested in restricted bands and all the test results are listed in section 4.7. The restricted bands defined in part 15.205(a))

No.	Test Mode and Frequency			Reference Test Data No.	
				Horizontal	Vertical
1.	Transmitting	802.11b	2412MHz (Channel 1)	# 23, # 24	# 22, # 25
2.			2462MHz (Channel 11)	# 27, # 28	# 26, # 29
3.		802.11g	2412MHz (Channel 1)	# 35, # 36	# 34, # 37
4.			2462MHz (Channel 11)	# 31, # 32	# 30, # 33
5.		802.11n HT20	2412MHz (Channel 1)	# 39, # 40	# 38, # 41
6.			2462MHz (Channel 11)	# 43, # 44	# 42, # 45
7.		802.11n HT40	2422MHz (Channel 3)	# 47, # 48	# 46, # 49
8.			2452MHz (Channel 9)	# 52, # 53	# 54, # 51

4.5.5. Radiated Emission Measurement Results For 30MHz~1GHz

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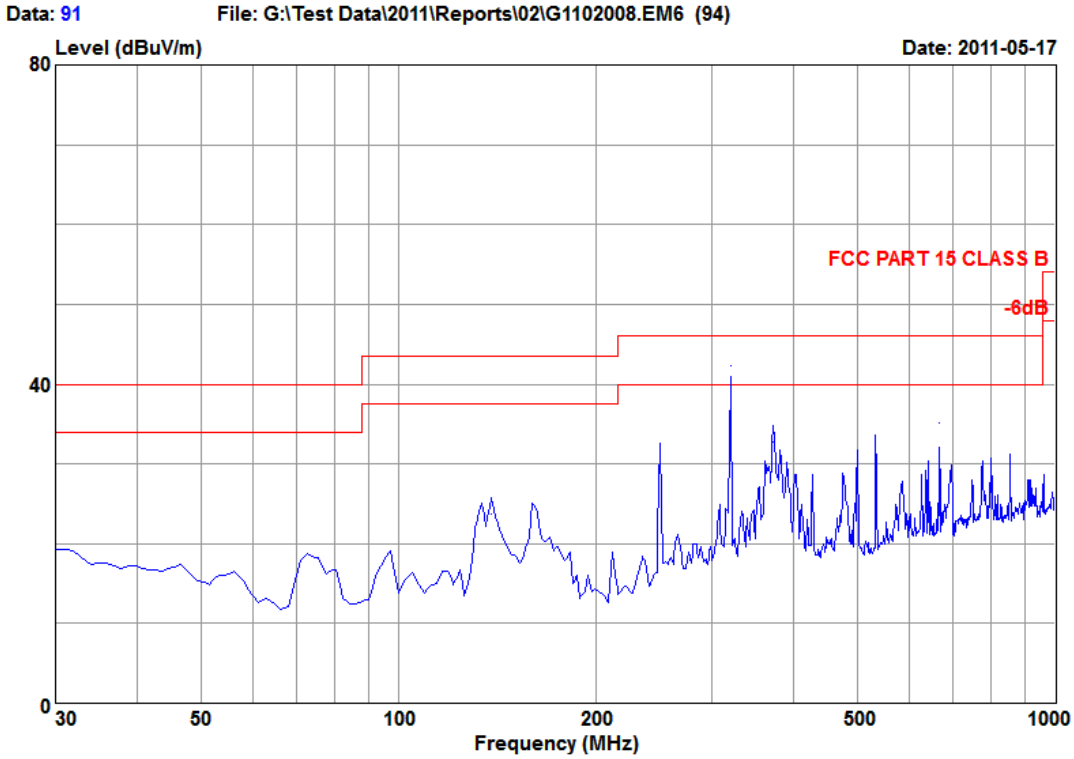

Site NO. : Semi-Anechoic Chamber
Dis. / Ant. : 3m 6112D (22251)-11-05
Limit : FCC PART 15 CLASS B
Env. / Ins. : 20.0*C&50%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating : 120Vac/60Hz
Test Mode : Normal Operating (Ping Test)
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 91
Ant. pol. : HORIZONTAL

Engineer : Justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	138.64	11.33	0.99	11.48	23.80	43.50	19.70	QP
2	250.19	12.70	1.37	16.48	30.55	46.00	15.45	QP
3	320.00	14.10	1.82	26.40	42.32	46.00	3.68	QP
4	371.44	15.20	1.97	15.67	32.84	46.00	13.16	QP
5	533.43	17.76	2.04	12.89	32.69	46.00	13.31	QP
6	667.29	19.30	2.47	13.30	35.07	46.00	10.93	QP

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

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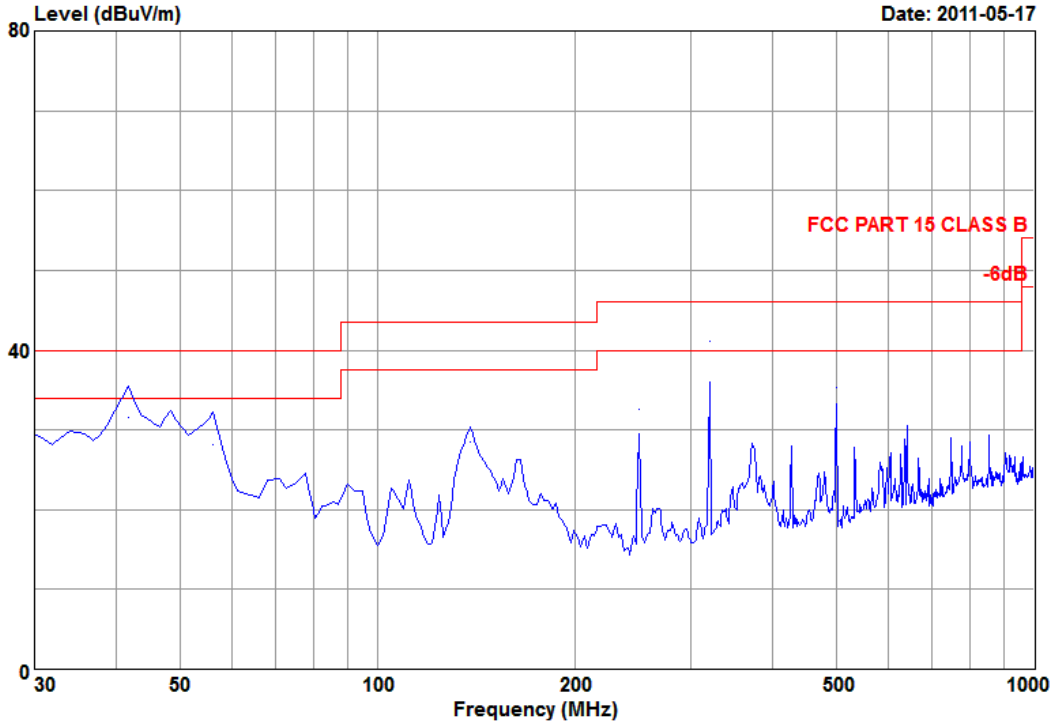

Site NO. : Semi-Anechoic Chamber
Dis. / Ant. : 3m 6112D (22251)-11-05
Limit : FCC PART 15 CLASS B
Env. / Ins. : 20.0*C&50%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating : 120Vac/60Hz
Test Mode : Normal Operating (Ping Test)
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 92
Ant. pol. : VERTICAL
Engineer : Justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	41.64	12.20	0.48	18.83	31.51	40.00	8.49	QP
2	56.19	6.90	0.74	20.53	28.17	40.00	11.83	QP
3	138.64	11.33	0.99	16.09	28.41	43.50	15.09	QP
4	250.19	12.70	1.37	18.49	32.56	46.00	13.44	QP
5	320.03	14.10	1.82	25.12	41.04	46.00	4.96	QP
6	499.48	17.36	1.97	15.96	35.29	46.00	10.71	QP

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

For Above 1GHz

Data of Test: May 17, 2011
Ambient temperature: 20℃ Relative humidity: 50%
Test mode: Ping Test
Data Number: #94

Peak:

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4828	Horizontal	52.47	74	21.63
7831	Horizontal	55.81	74	18.09

Note 1. : All the emissions (up to 12GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Average

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
4828	Horizontal	33.93	54	20.07
7833	Horizontal	35.60	54	18.40

Note 1. : All the emissions (up to 12 GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Data of Test: May 17, 2011
Ambient temperature: 20℃ Relative humidity: 50%
Test mode: Ping Test
Data Number: #95

Peak:

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
1595	Vertical	57.55	74	16.45
1901	Vertical	56.10	74	17.90

Note 1. : All the emissions (up to 12GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Average:

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)
1595	Vertical	36.93	54	17.07
1901	Vertical	36.72	54	17.28

Note 1. : All the emissions (up to 12GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

4.6. For Restricted Bands

4.6.1.Type of Network: IEEE 802.11b

Data of Test: May 17, 2011
Ambient temperature: 16.9℃ Relative humidity: 52%

Test Frequency band: TX 2412MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1816	Horizontal	43.72	74	30.28	Peak
1901	Horizontal	44.33	74	29.67	Peak
2122	Horizontal	44.08	74	29.92	Peak
2700	Horizontal	45.81	74	28.19	Peak
4825	Horizontal	46.95	74	27.05	Peak
4825	Horizontal	37.33	54	16.67	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Vertical	44.17	74	29.83	Peak
1901	Vertical	47	74	27.00	Peak
2020	Vertical	43.72	74	30.28	Peak
2122	Vertical	45.59	74	28.41	Peak
2666	Vertical	45.87	74	28.13	Peak
4825	Vertical	50.73	74	23.27	Peak
4825	Vertical	40.45	54	13.55	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Test Frequency band: TX 2437MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Horizontal	41.24	74	32.76	Peak
1697	Horizontal	41.85	74	32.15	Peak
1816	Horizontal	41.31	74	32.69	Peak
1901	Horizontal	44.41	74	29.59	Peak
2122	Horizontal	42.52	74	31.48	Peak
4874	Horizontal	46.76	74	27.24	Peak
4874	Horizontal	35.32	54	18.68	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Vertical	42.64	74	31.36	Peak
1697	Vertical	44.86	74	29.14	Peak
1816	Vertical	44.26	74	29.74	Peak
1901	Vertical	48.41	74	25.59	Peak
2122	Vertical	45.1	74	28.90	Peak
4874	Vertical	50.42	74	23.58	Peak
1901	Vertical	38.29	54	15.71	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Test Frequency band: TX 2462MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Horizontal	40.65	74	33.35	Peak
1697	Horizontal	41.49	74	32.51	Peak
1816	Horizontal	42.25	74	31.75	Peak
1901	Horizontal	44.95	74	29.05	Peak
2122	Horizontal	43.34	74	30.66	Peak
4924	Horizontal	47.03	74	26.97	Peak
4924	Horizontal	36.45	54	17.55	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Vertical	43.15	74	30.85	Peak
1697	Vertical	44.65	74	29.35	Peak
1901	Vertical	47.71	74	26.29	Peak
2122	Vertical	45.71	74	28.29	Peak
4924	Vertical	46.58	74	27.42	Peak
1901	Vertical	37.29	54	16.71	Average
4924	Vertical	36.44	54	17.56	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

4.6.2.Type of Network : IEEE 802.11g

Data of Test: May 17, 2011
Ambient temperature: 16.9℃ Relative humidity: 52%

Test Frequency band: TX 2412MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Horizontal	41.68	74	32.32	Peak
1697	Horizontal	41.69	74	32.31	Peak
1816	Horizontal	42.29	74	31.71	Peak
1901	Horizontal	45.19	74	28.81	Peak
4824	Horizontal	46.54	74	27.46	Peak
4824	Horizontal	37.16	54	16.84	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1476	Vertical	41.81	74	32.19	Peak
1595	Vertical	42.84	74	31.16	Peak
1697	Vertical	44.87	74	29.13	Peak
1901	Vertical	48.85	74	25.15	Peak
2122	Vertical	45.58	74	28.42	Peak
4824	Vertical	46.64	74	27.36	Peak
4824	Vertical	36.53	54	17.47	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Test Frequency band: TX 2437MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1697	Horizontal	42.14	74	31.86	Peak
1901	Horizontal	44.89	74	29.11	Peak
2122	Horizontal	43.41	74	30.59	Peak
2666	Horizontal	44.83	74	29.17	Peak
4874	Horizontal	46.32	74	27.68	Peak
4874	Horizontal	37.27	54	16.73	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1476	Vertical	42.03	74	31.97	Peak
1595	Vertical	43.34	74	30.66	Peak
1697	Vertical	44.44	74	29.56	Peak
1901	Vertical	47.77	74	26.23	Peak
2122	Vertical	44.94	74	29.06	Peak
4874	Vertical	46.72	74	27.28	Peak
1901	Vertical	38.63	54	15.37	Average
4874	Vertical	37.15	54	16.85	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Test Frequency band: TX 2462MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Horizontal	41.7	74	32.30	Peak
1697	Horizontal	42.64	74	31.36	Peak
1901	Horizontal	44.11	74	29.89	Peak
2122	Horizontal	42.84	74	31.16	Peak
4924	Horizontal	46	74	28.00	Peak
4924	Horizontal	37.35	54	16.65	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1476	Vertical	41.08	74	32.92	Peak
1697	Vertical	43.92	74	30.08	Peak
1901	Vertical	47.3	74	26.70	Peak
2122	Vertical	45.48	74	28.52	Peak
4924	Vertical	46.46	74	27.54	Peak
1901	Vertical	38.24	54	15.76	Average
4924	Vertical	36.91	54	17.09	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

4.6.3.Type of Network : IEEE 802.11n HT20

Data of Test: May 17, 2011
Ambient temperature: 16.9℃ Relative humidity: 52%

Test Frequency band: TX 2412MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1102	Horizontal	41.93	74	32.07	Peak
1595	Horizontal	41.92	74	32.08	Peak
1697	Horizontal	42.77	74	31.23	Peak
1901	Horizontal	44.2	74	29.80	Peak
2122	Horizontal	44.11	74	29.89	Peak
4824	Horizontal	45.87	74	28.13	Peak
4824	Horizontal	36.49	54	17.51	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Vertical	40.54	74	33.46	Peak
1901	Vertical	41.12	74	32.88	Peak
2020	Vertical	42.38	74	31.62	Peak
2122	Vertical	44.09	74	29.91	Peak
2411	Vertical	43.27	74	30.73	Peak
4825	Vertical	46.34	74	27.66	Peak
4825	Vertical	36.98	54	17.02	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Test Frequency band: TX 2437MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Horizontal	40.54	74	33.46	Peak
1697	Horizontal	41.12	74	32.88	Peak
1816	Horizontal	42.38	74	31.62	Peak
1901	Horizontal	44.09	74	29.91	Peak
2122	Horizontal	43.27	74	30.73	Peak
4874	Horizontal	46.34	74	27.66	Peak
4874	Horizontal	35.47	54	18.53	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1391	Vertical	40.11	74	33.89	Peak
1595	Vertical	43.29	74	30.71	Peak
1697	Vertical	44.15	74	29.85	Peak
1901	Vertical	47.24	74	26.76	Peak
2122	Vertical	45.29	74	28.71	Peak
4874	Vertical	46.68	74	27.32	Peak
1901	Vertical	38.22	54	15.78	Average
4874	Vertical	37.11	54	16.89	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Test Frequency band: TX 2462MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Horizontal	40.28	74	33.72	Peak
1697	Horizontal	42.1	74	31.90	Peak
1816	Horizontal	43.13	74	30.87	Peak
1901	Horizontal	44.8	74	29.20	Peak
2122	Horizontal	43.91	74	30.09	Peak
1901	Horizontal	35.69	54	18.31	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Vertical	44.81	74	29.19	Peak
1697	Vertical	44.57	74	29.43	Peak
1901	Vertical	47.4	74	26.60	Peak
2122	Vertical	46.11	74	27.89	Peak
4924	Vertical	46.4	74	27.60	Peak
4924	Vertical	37.23	54	16.77	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

4.6.4.Type of Network : IEEE 802.11n HT40

Data of Test: May 17, 2011
Ambient temperature: 16.9℃ Relative humidity: 52%

Test Frequency band: TX 2422MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1102	Horizontal	42.62	74	31.38	Peak
1595	Horizontal	41.19	74	32.81	Peak
1697	Horizontal	41.87	74	32.13	Peak
1816	Horizontal	42.03	74	31.97	Peak
1901	Horizontal	44.28	74	29.72	Peak
2122	Horizontal	43.57	74	30.43	Peak
4844	Horizontal	46.69	74	27.31	Peak
4844	Horizontal	37.82	54	16.18	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Vertical	43.95	74	30.05	Peak
1697	Vertical	44.2	74	29.80	Peak
1901	Vertical	47.25	74	26.75	Peak
2122	Vertical	46.12	74	27.88	Peak
4844	Vertical	45.89	74	28.11	Peak
1901	Vertical	38.52	54	15.48	Average
4844	Vertical	36.46	54	17.54	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Test Frequency band: TX 2437MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1272	Horizontal	40.4	74	33.60	Peak
1901	Horizontal	44.8	74	29.20	Peak
2122	Horizontal	43.02	74	30.98	Peak
4587	Horizontal	50.22	74	23.78	Peak
4874	Horizontal	46.29	74	27.71	Peak
4587	Horizontal	40.12	54	13.88	Average
4874	Horizontal	36.35	54	17.65	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Vertical	44.18	74	29.82	Peak
1697	Vertical	44.35	74	29.65	Peak
1935	Vertical	46.83	74	27.17	Peak
2122	Vertical	45.65	74	28.35	Peak
4874	Vertical	46.1	74	27.90	Peak
4874	Vertical	36.93	54	17.07	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Test Frequency band: TX 2452MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Horizontal	40.77	74	33.23	Peak
1697	Horizontal	42.18	74	31.82	Peak
1816	Horizontal	42.31	74	31.69	Peak
1901	Horizontal	45.07	74	28.93	Peak
2666	Horizontal	44.69	74	29.31	Peak
4904	Horizontal	45.9	74	28.10	Peak
4904	Horizontal	36.82	54	17.18	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuv)	Limit (dBuv)	Margin (dB)	Remark
1595	Vertical	44.5	74	29.50	Peak
1697	Vertical	43.82	74	30.18	Peak
1816	Vertical	44.85	74	29.15	Peak
1901	Vertical	47.6	74	26.40	Peak
2020	Vertical	44.27	74	29.73	Peak
2122	Vertical	46.15	74	27.85	Peak
1901	Vertical	38.43	54	15.57	Average
2122	Vertical	37.35	54	16.65	Average

Note 1. : All the emissions (up to 25GHz) not reported are too low to be measured.
Note 2. : The emission behavior belongs to narrowband spurious emission.

4.7. Spurious Emission Measurement Results in Band Edge Emission (FCC Part 15, 15.205)

4.7.1. IEEE 802.11b

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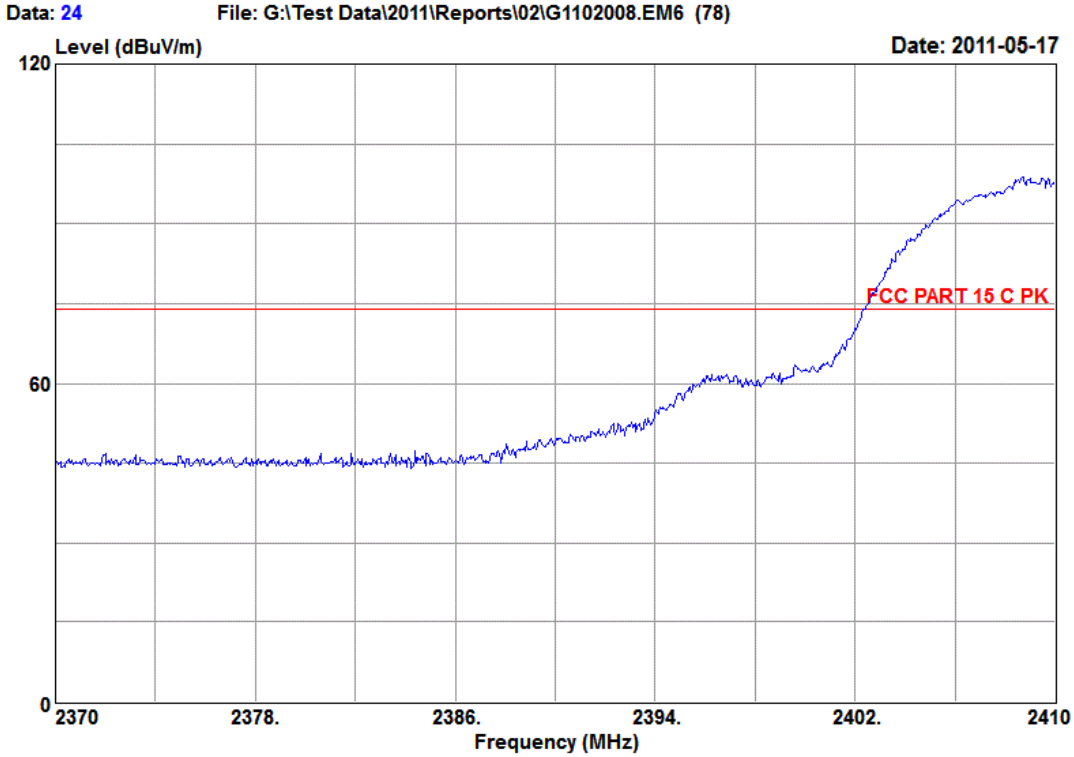

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11b CH1
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 24
Ant. pol. : HORIZONTAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	47.92	35.46	48.50	74.00	25.50	Peak

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

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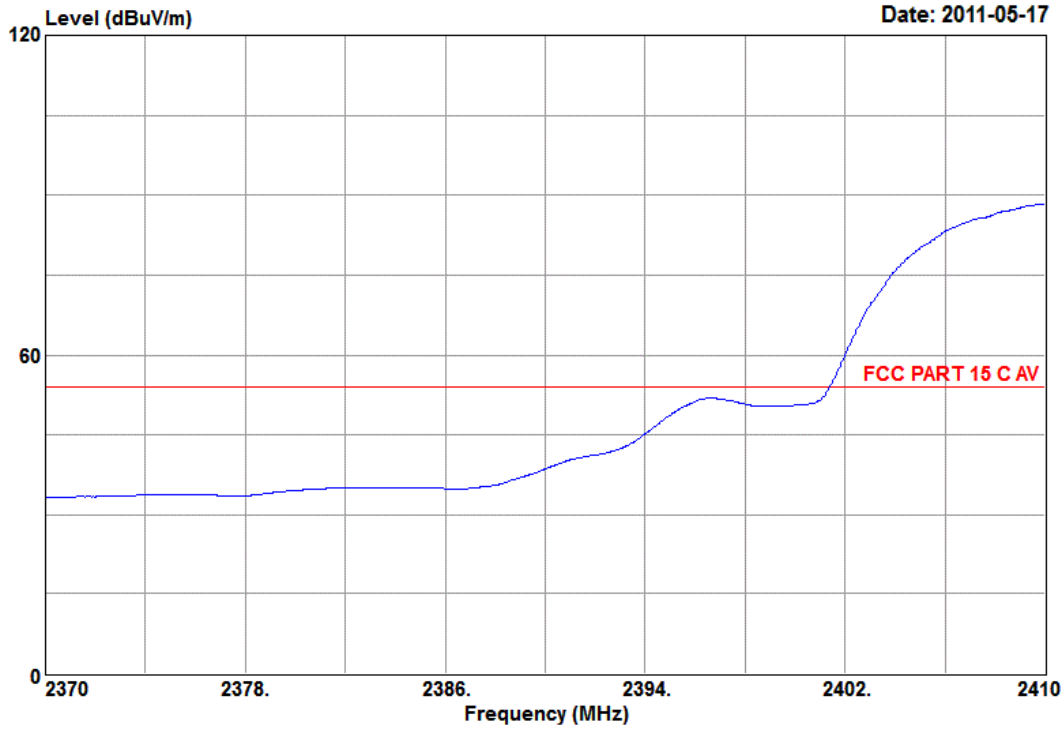
Data: 23 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11b CH1
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 23
Ant. pol. : HORIZONTAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	38.04	35.46	38.62	54.00	15.38	Average

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

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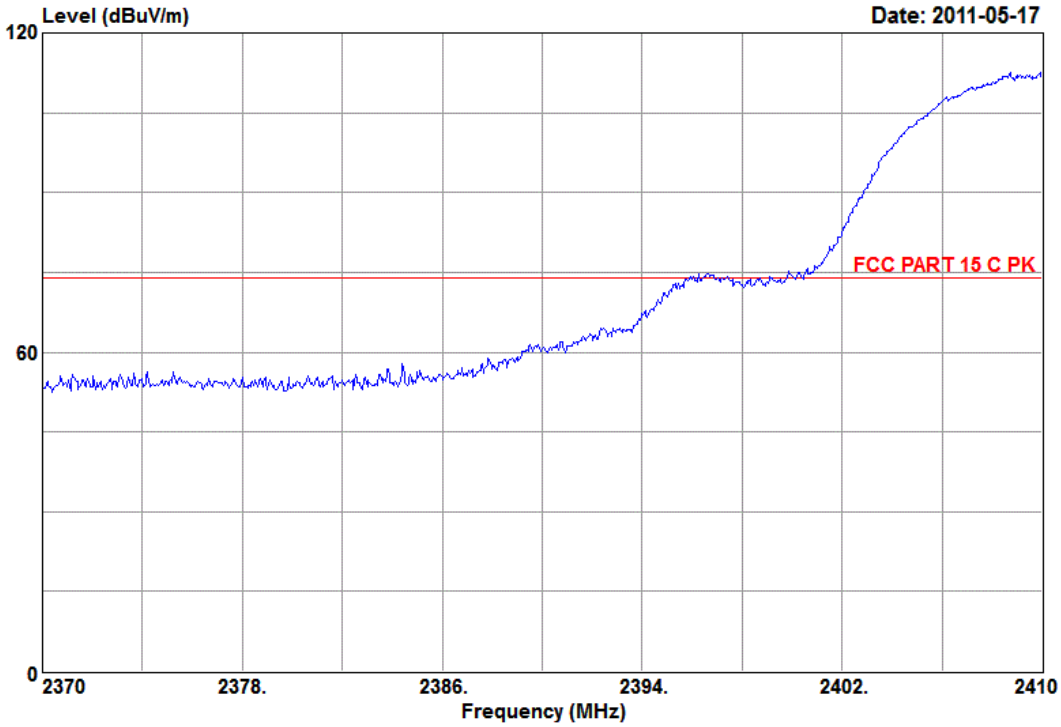
Data: 25 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11b CH1
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 25
Ant. pol. : VERTICAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	60.11	35.46	60.69	74.00	13.31	Peak

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

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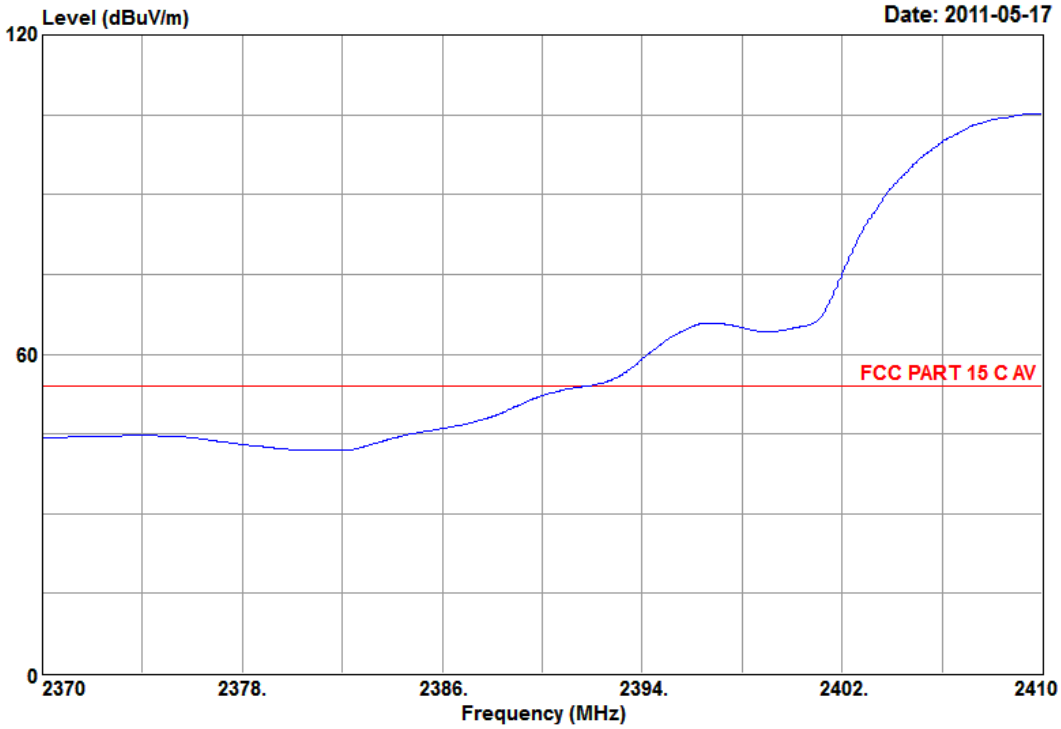
Data: 22 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11b CH1
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 22
Ant. pol. : VERTICAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	51.63	35.46	52.21	54.00	1.79	Average

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

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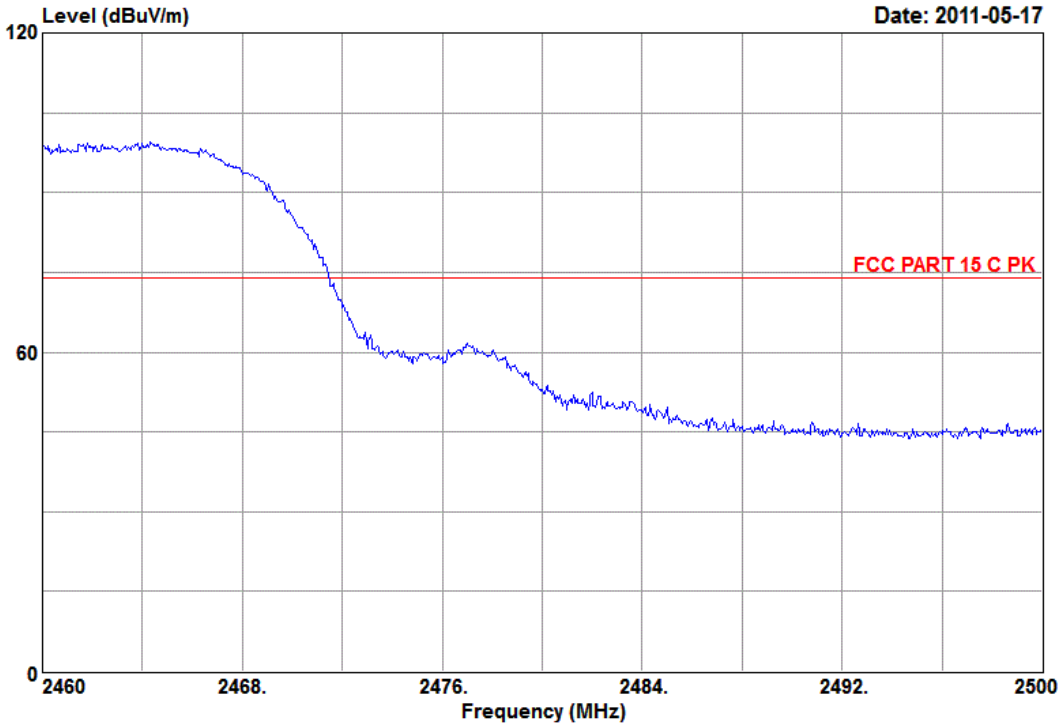
Data: 27 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11b CH11
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 27
Ant. pol. : HORIZONTAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	49.76	35.49	50.76	74.00	23.24	Peak

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

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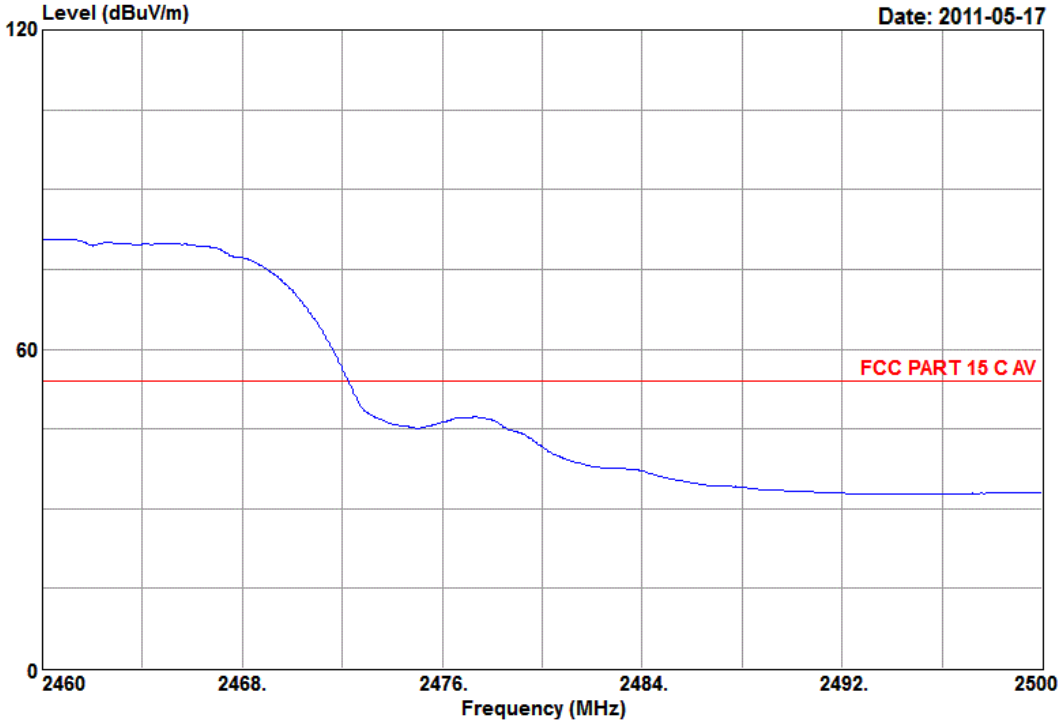
Data: 28 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11b CH11
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 28
Ant. pol. : HORIZONTAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	36.41	35.49	37.41	54.00	16.59	Average

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

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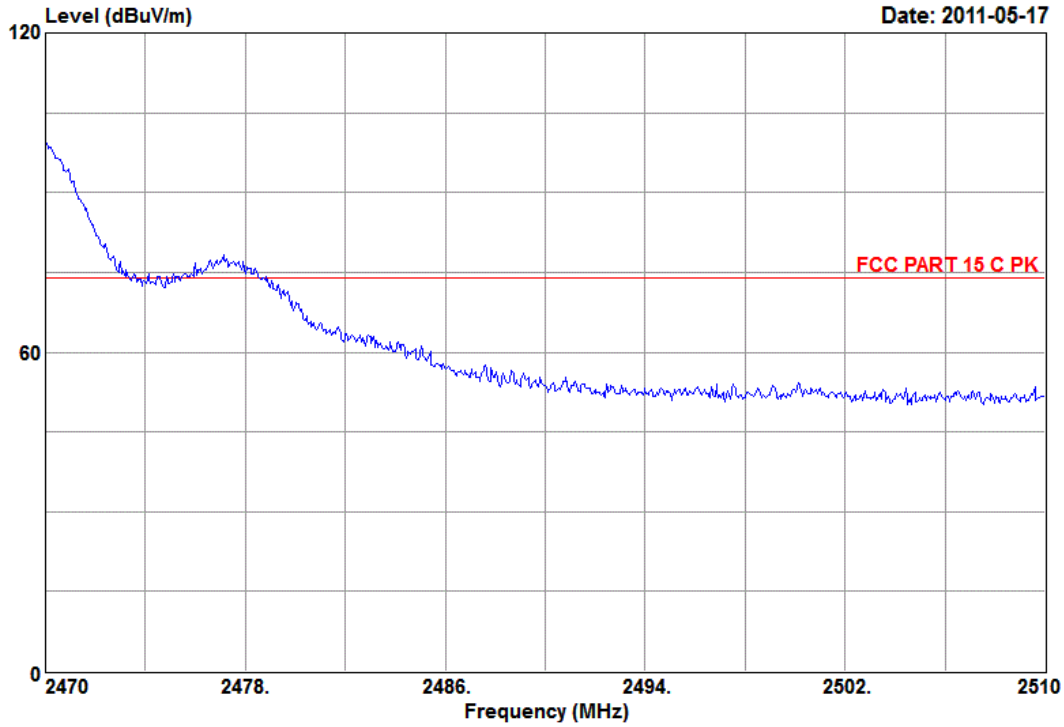
Data: 26 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11b CH11
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 26
Ant. pol. : VERTICAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	59.57	35.49	60.57	74.00	13.43	Peak

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

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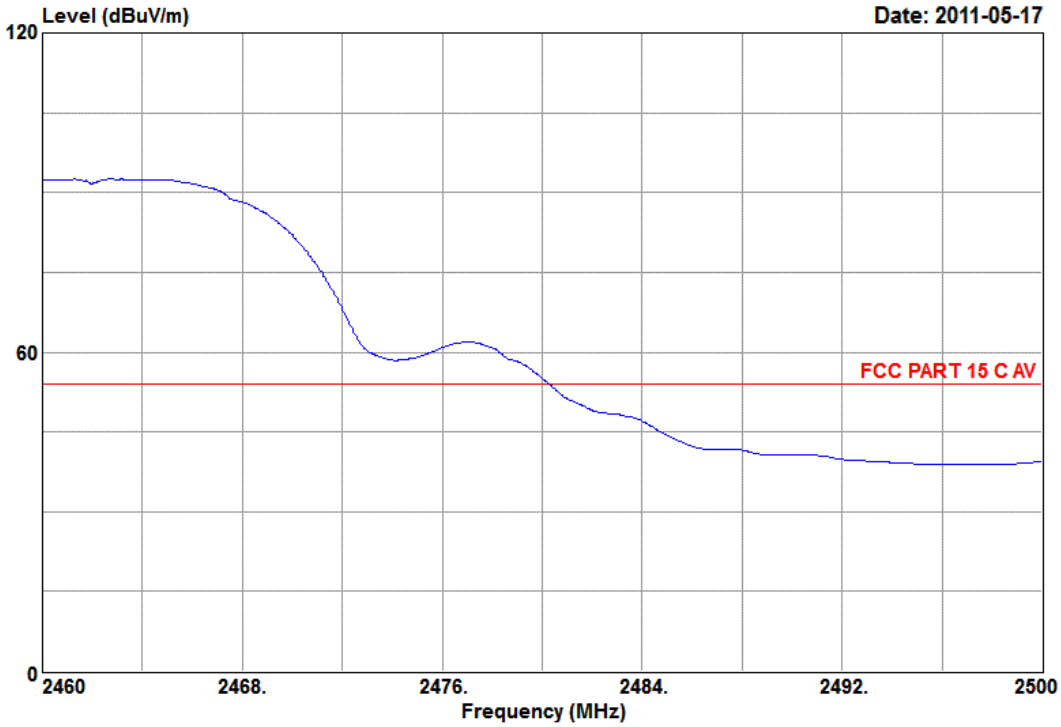
Data: 29 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11b CH11
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 29
Ant. pol. : VERTICAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	46.82	35.49	47.82	54.00	6.18	Average

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

4.7.2. IEEE 802.11g

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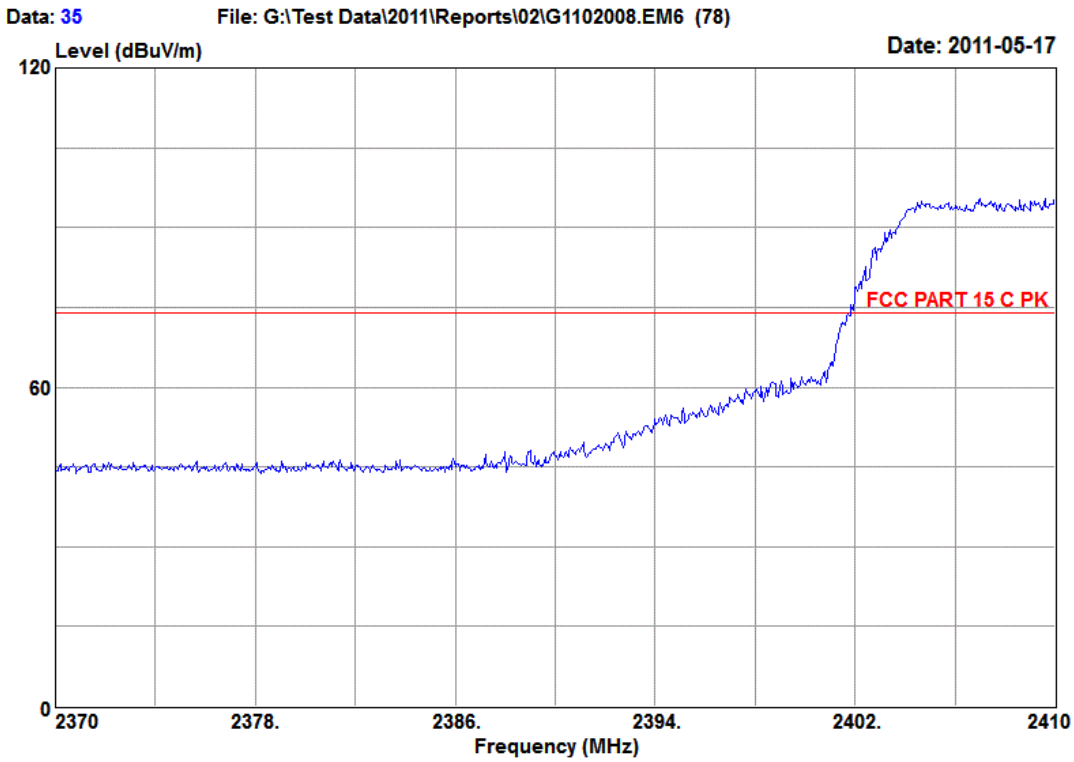

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11g CH1
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 35
Ant. pol. : HORIZONTAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	46.63	35.46	47.21	74.00	26.79	Peak

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

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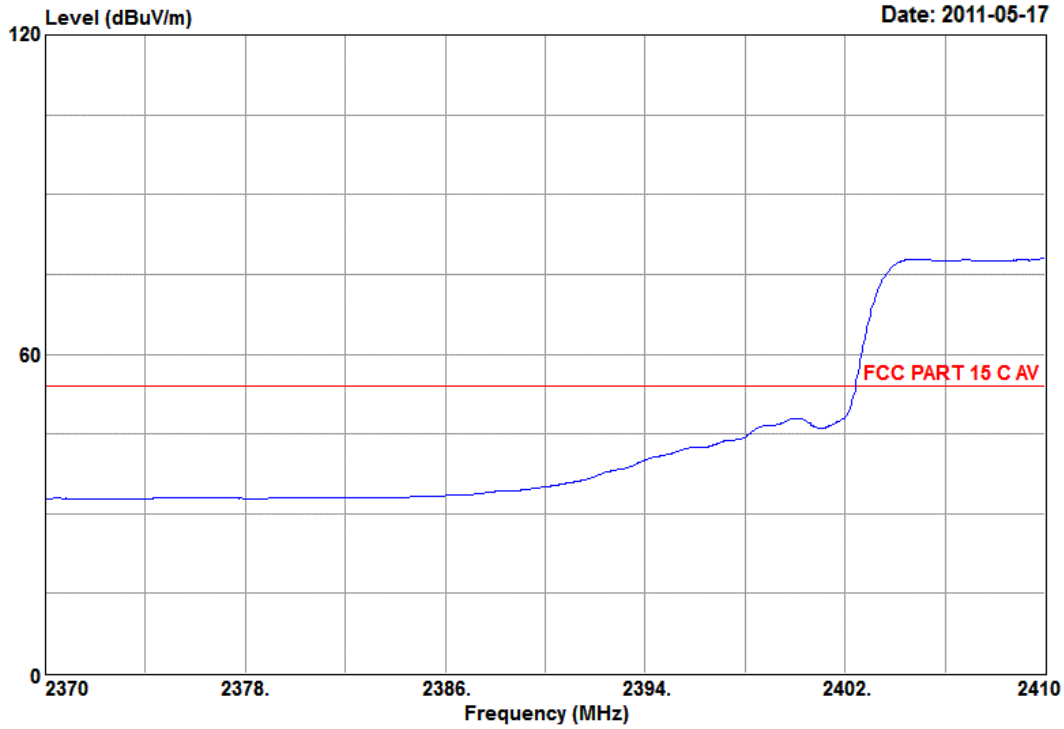
Data: 36 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11g CH1
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 36
Ant. pol. : HORIZONTAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	34.43	35.46	35.01	54.00	18.99	Average

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

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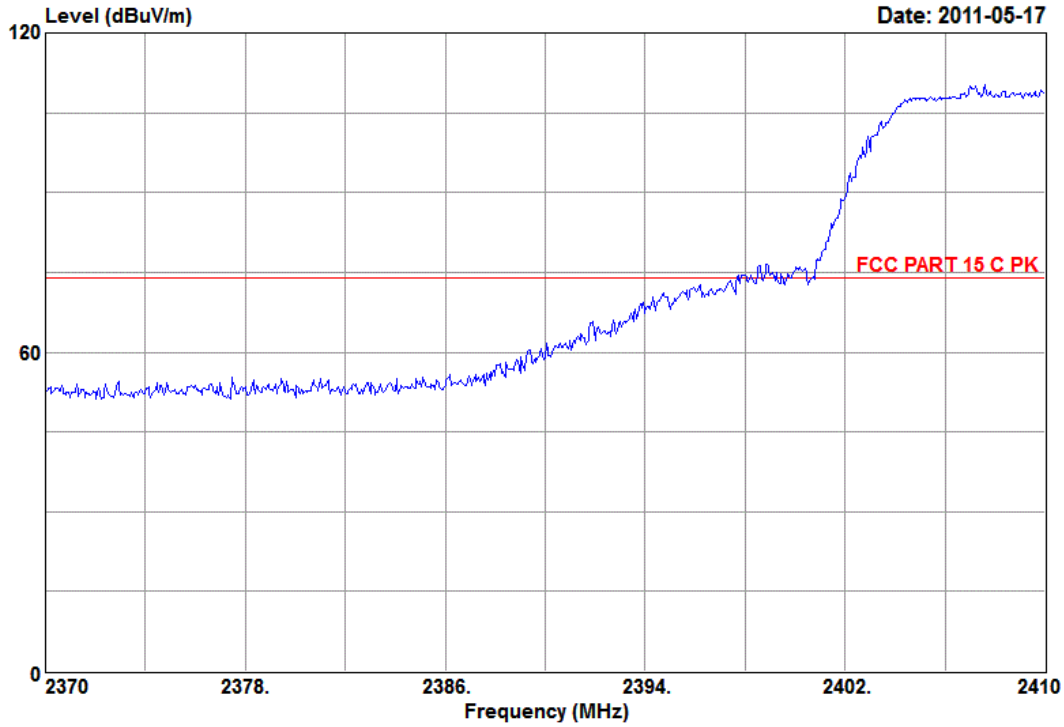
Data: 34 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11g CH1
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 34
Ant. pol. : VERTICAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	58.31	35.46	58.89	74.00	15.11	Peak

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

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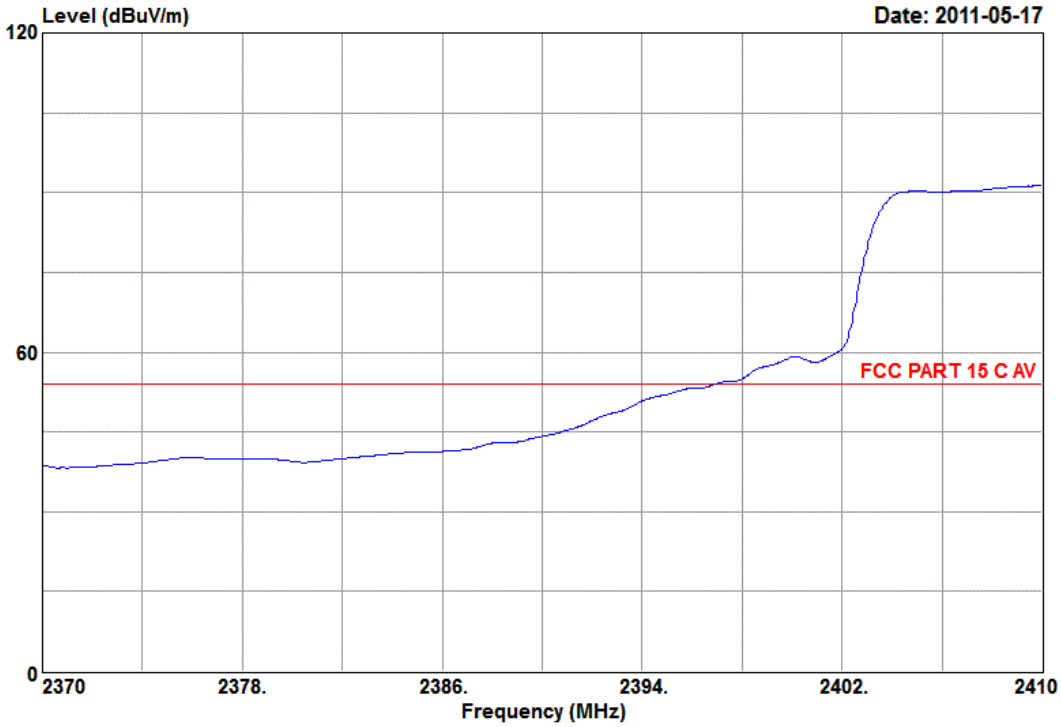
Data: 37 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11g CH1
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 37
Ant. pol. : VERTICAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	43.58	35.46	44.16	54.00	9.84	Average

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

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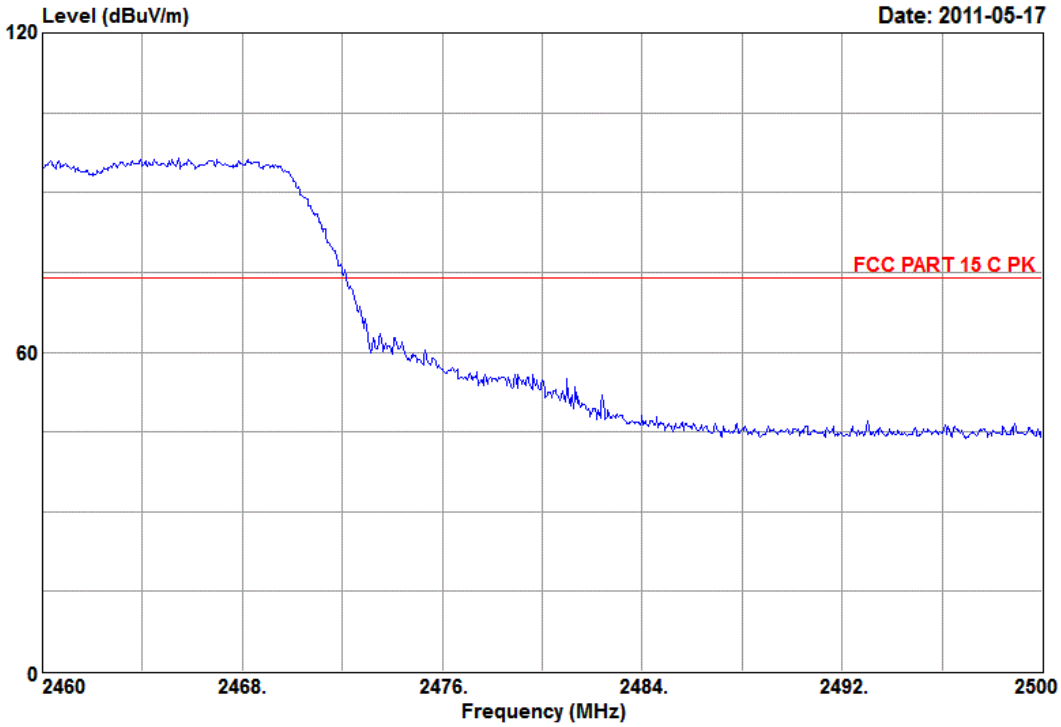
Data: 32 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11g CH11
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 32
Ant. pol. : HORIZONTAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	45.84	35.49	46.84	74.00	27.16	Peak

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

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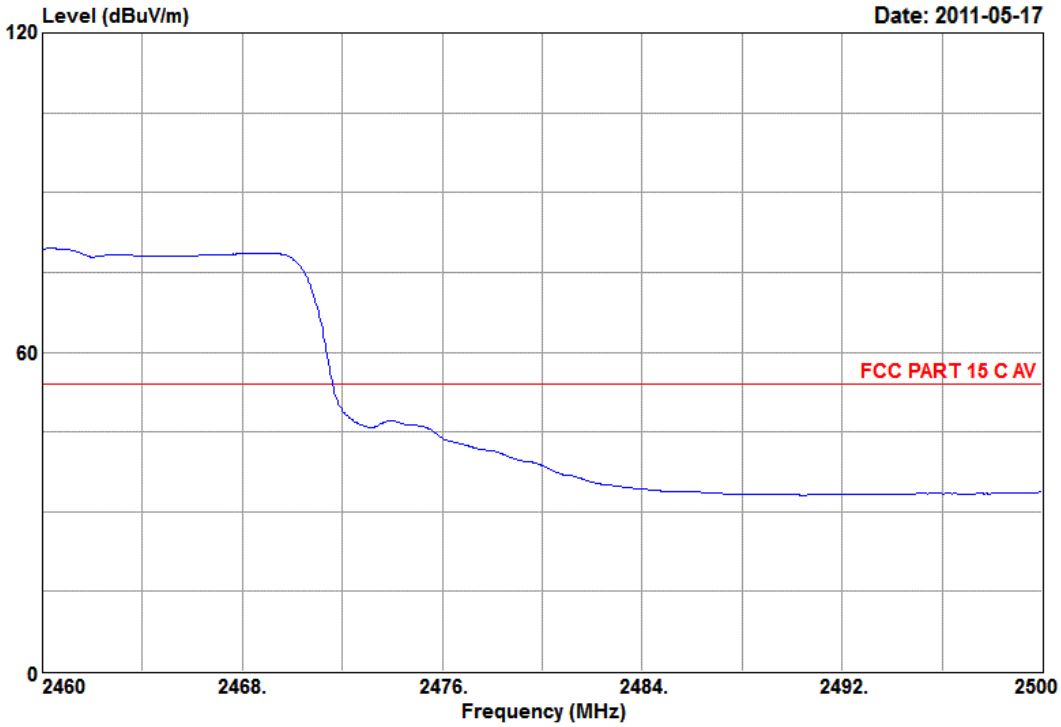
Data: 31 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11g CH11
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 31
Ant. pol. : HORIZONTAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	33.46	35.49	34.46	54.00	19.54	Average

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

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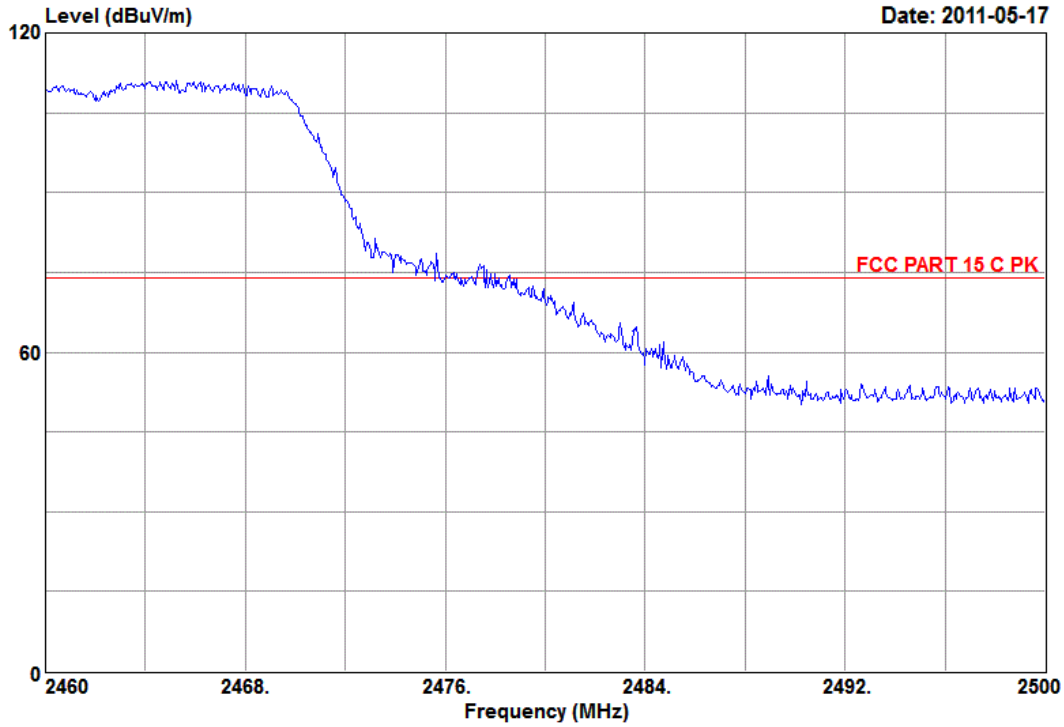
Data: 33 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11g CH11
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 33
Ant. pol. : VERTICAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	63.05	35.49	64.05	74.00	9.95	Peak

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

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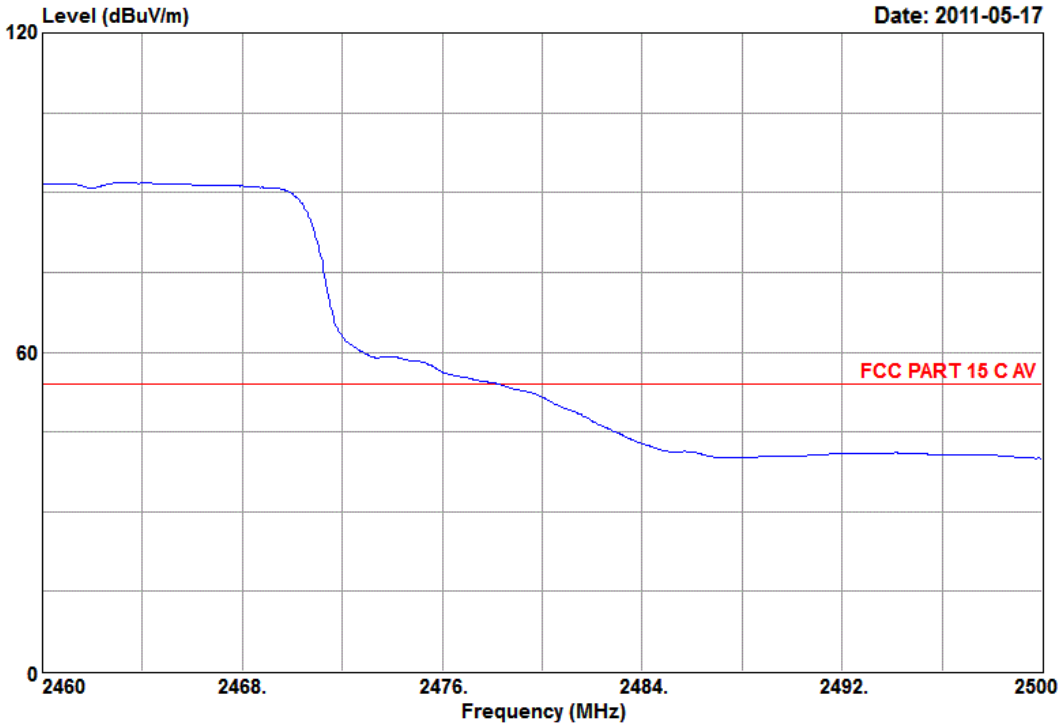
Data: 30 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11g CH11
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 30
Ant. pol. : VERTICAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	42.70	35.49	43.70	54.00	10.30	Average

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

4.7.3. IEEE 802.11n HT20

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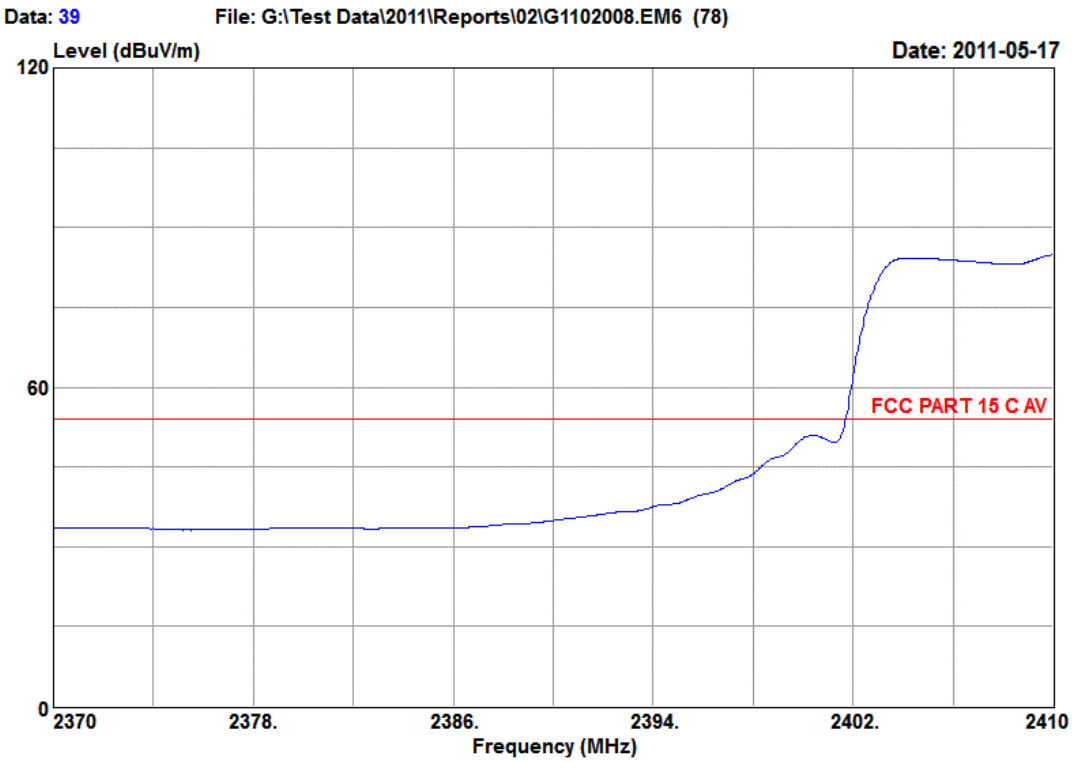

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT20 CH1
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 39
Ant. pol. : HORIZONTAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	34.35	35.46	34.93	54.00	19.07	Average

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

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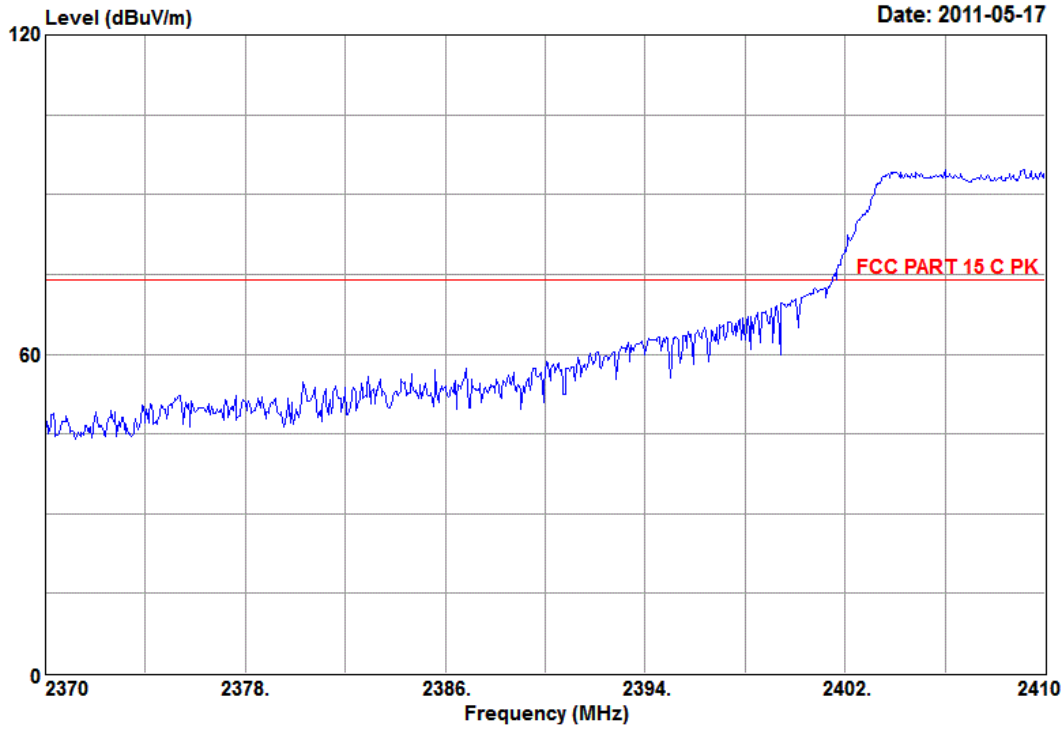
Data: 40 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT20 CH1
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 40
Ant. pol. : HORIZONTAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	56.14	35.46	56.72	74.00	17.28	Peak

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

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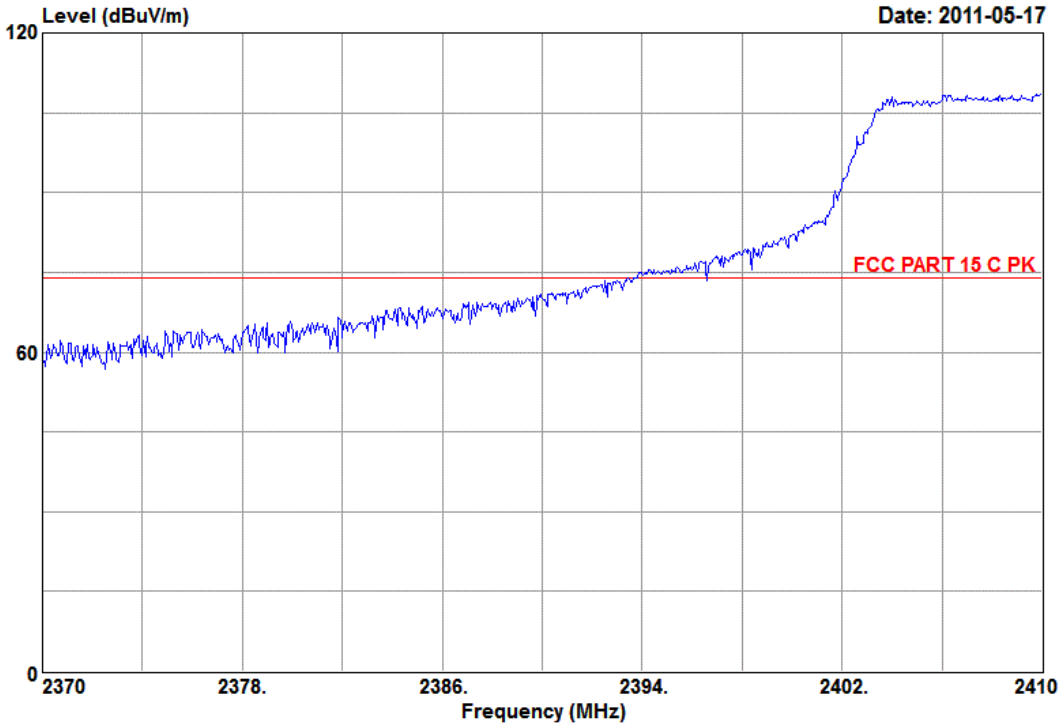
Data: 41 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT20 CH1
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 41
Ant. pol. : VERTICAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	69.43	35.46	70.01	74.00	3.99	Peak

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

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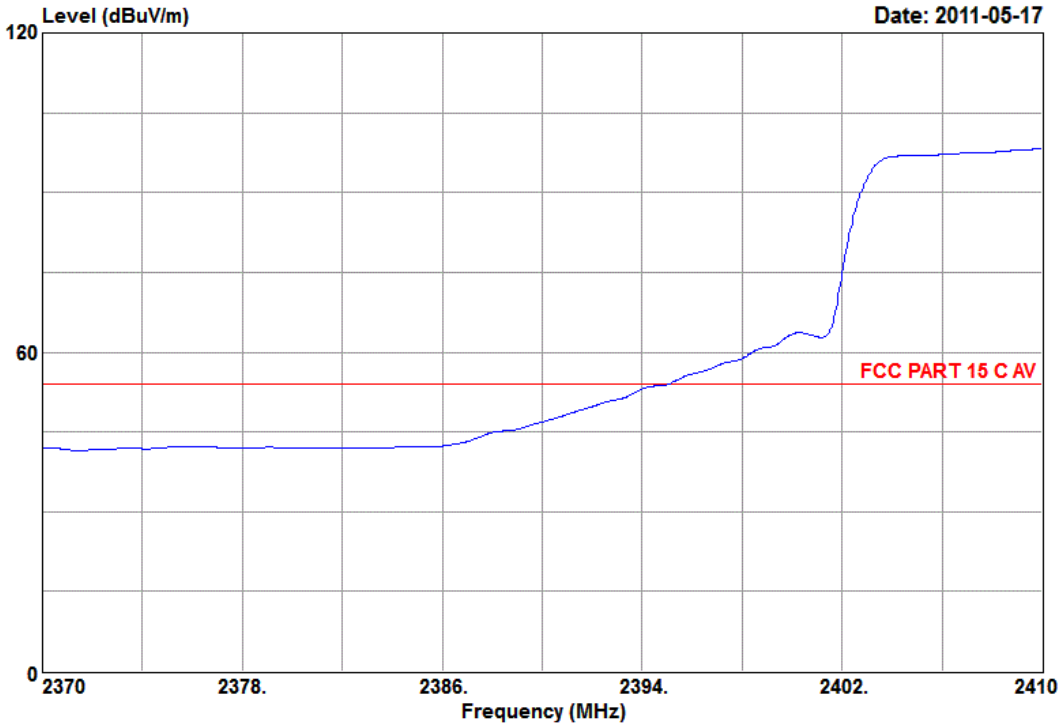
Data: 38 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT20 CH1
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 38
Ant. pol. : VERTICAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	46.28	35.46	46.86	54.00	7.14	Average

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

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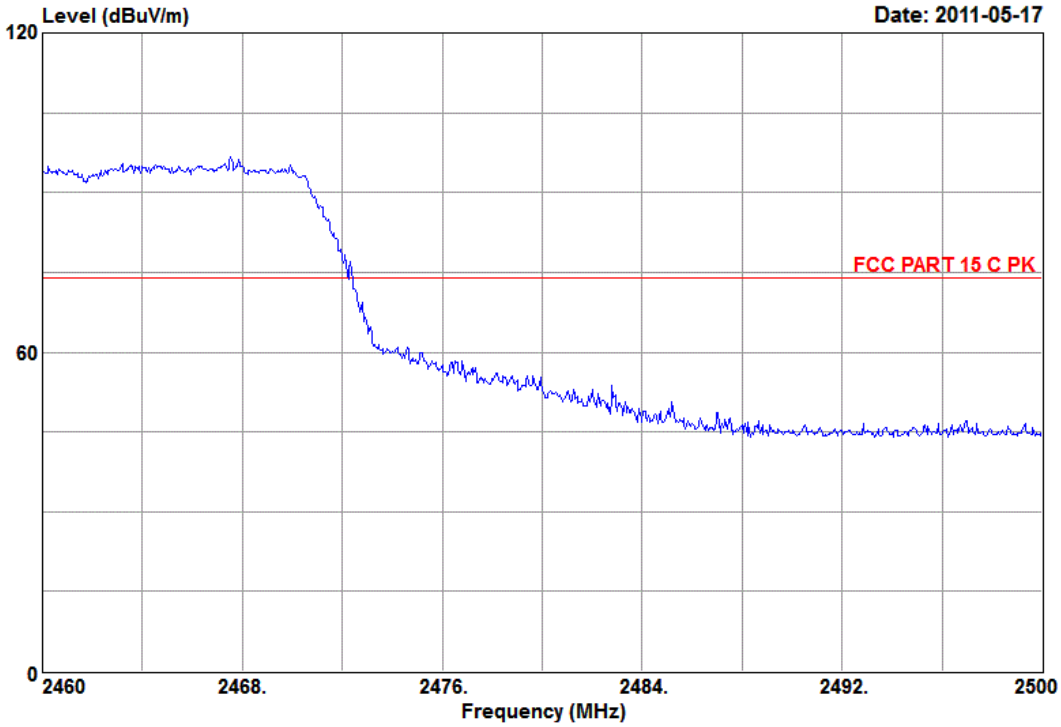
Data: 43 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT20 CH11
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 43
Ant. pol. : HORIZONTAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	47.54	35.49	48.54	74.00	25.46	Peak

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

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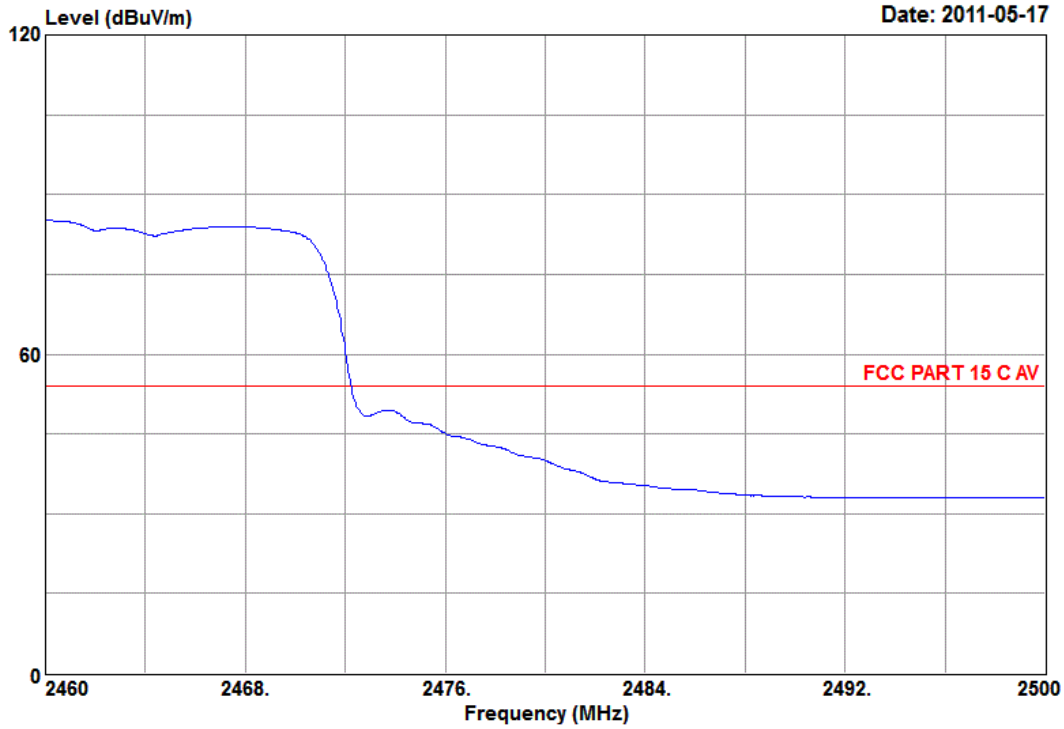
Data: 44 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT20 CH11
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 44
Ant. pol. : HORIZONTAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	34.50	35.49	35.50	54.00	18.50	Average

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

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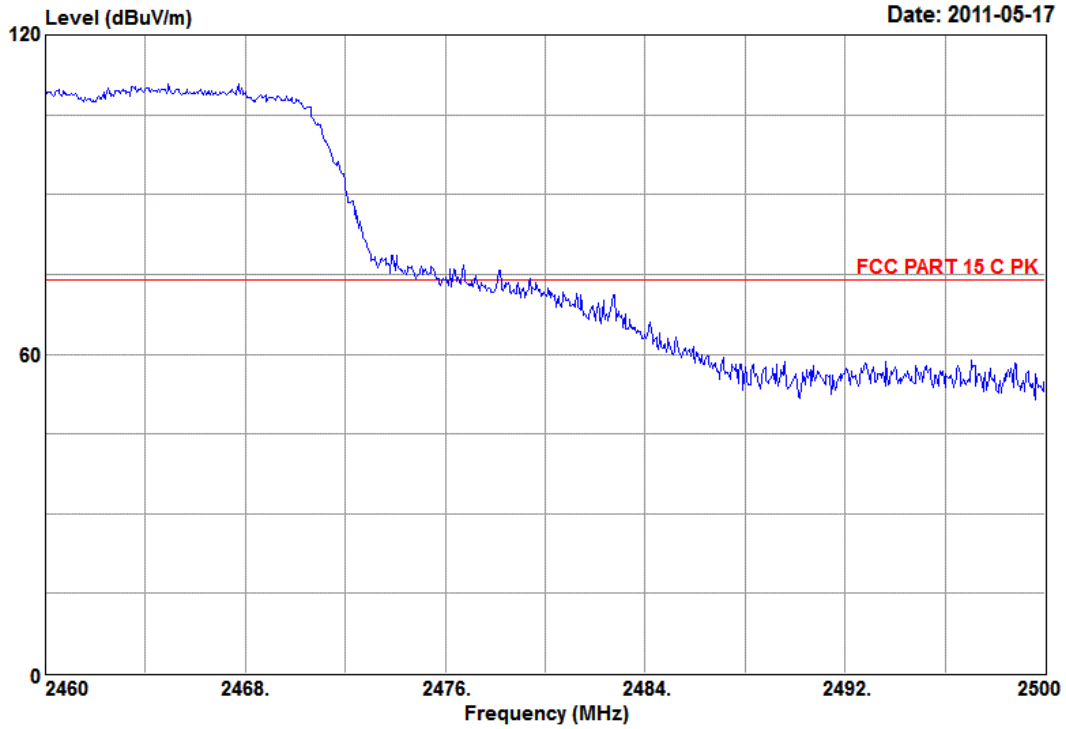
Data: 42 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT20 CH11
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 42
Ant. pol. : VERTICAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	63.86	35.49	64.86	74.00	9.14	Peak

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

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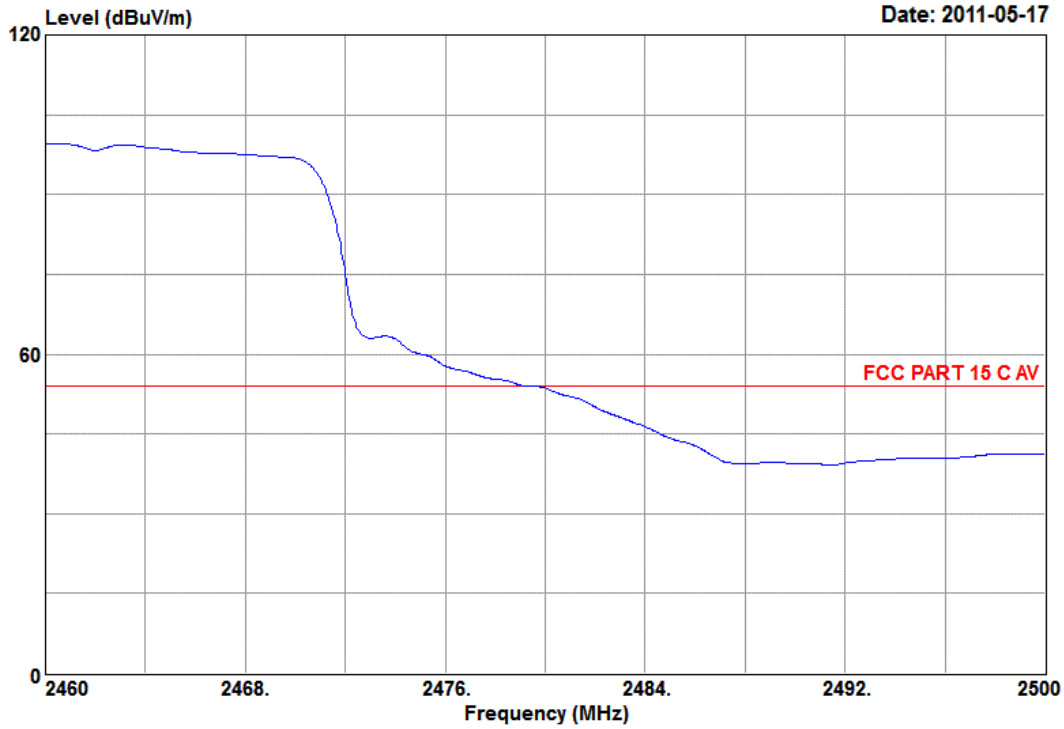
Data: 45 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT20 CH11
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 45
Ant. pol. : VERTICAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	46.18	35.49	47.18	54.00	6.82	Average

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

4.7.4. IEEE 802.11n HT40

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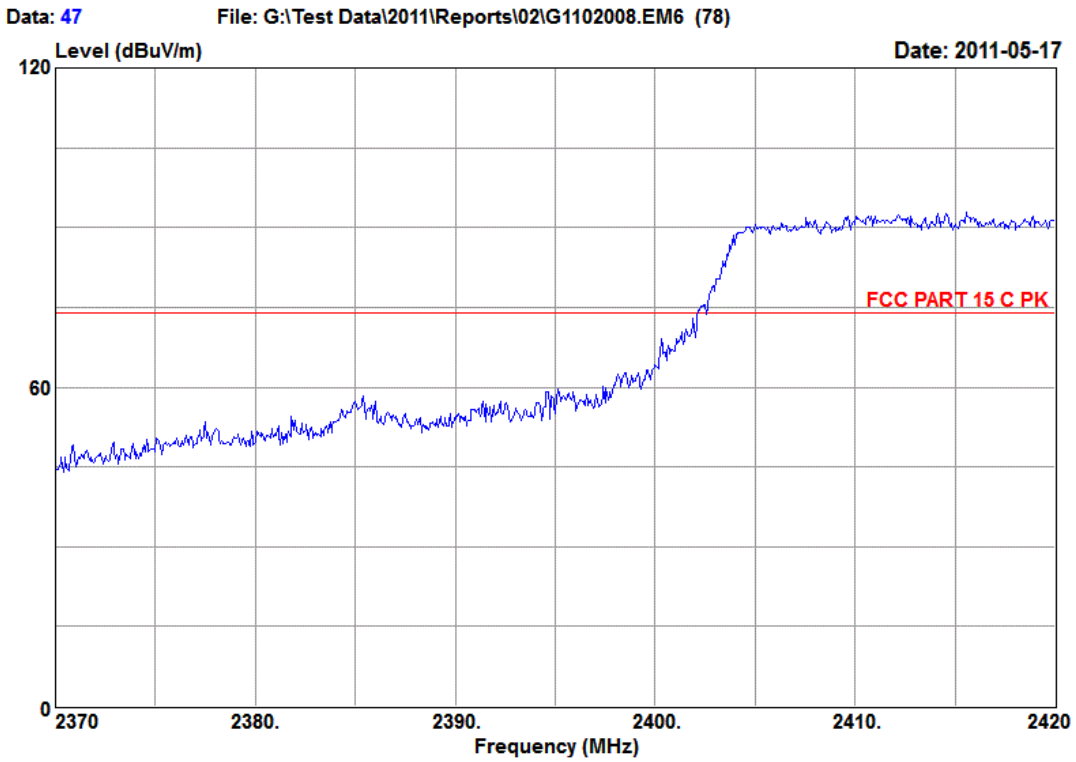

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT40 CH3
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 47
Ant. pol. : HORIZONTAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.40	28.49	7.47	57.82	35.45	58.33	74.00	15.67	Peak
2	2390.00	28.53	7.51	53.90	35.46	54.48	74.00	19.52	Peak

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

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Economic Development Zone,JiangSu,China
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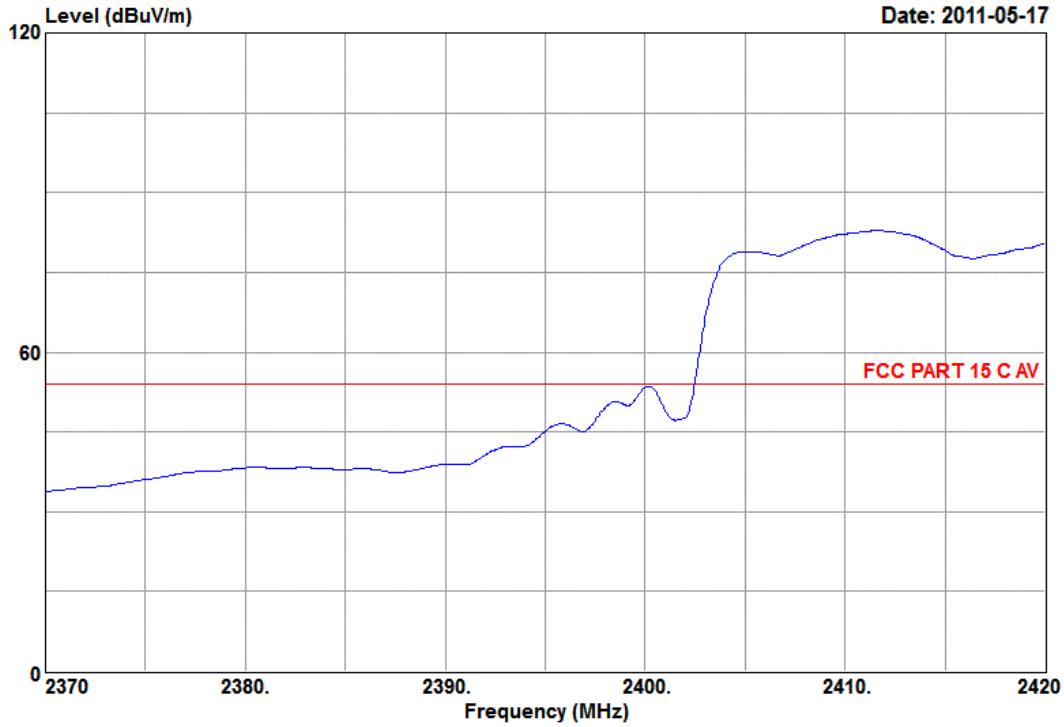
Data: 48 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT40 CH3
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 48
Ant. pol. : HORIZONTAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	38.32	35.46	38.90	54.00	15.10	Average

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

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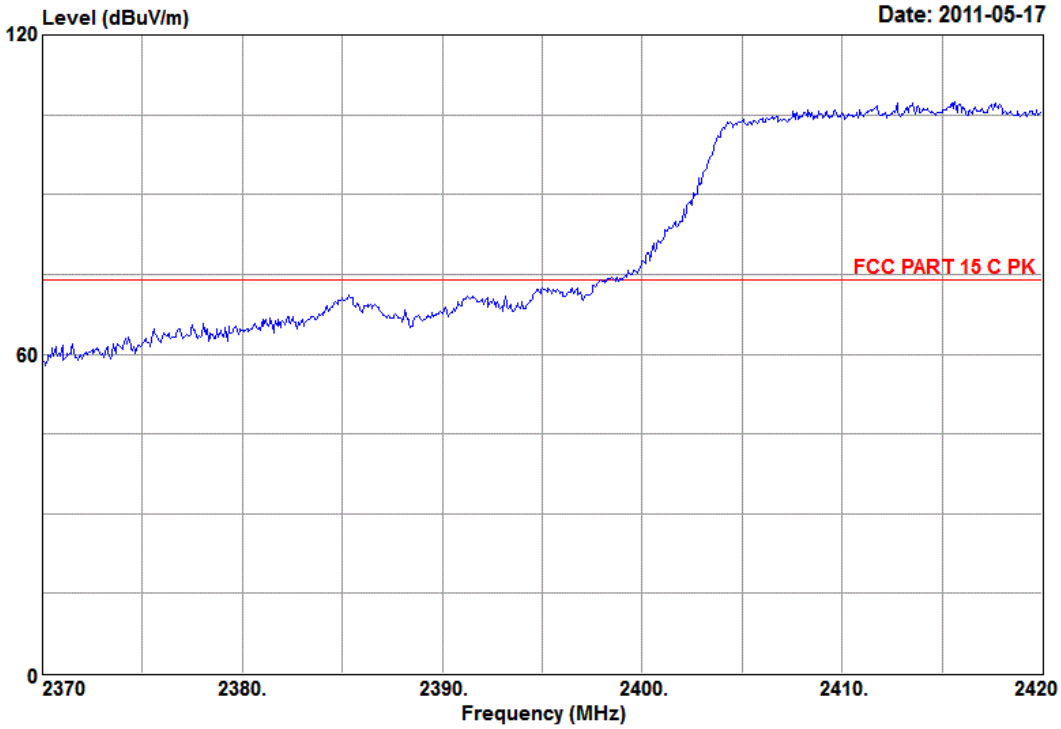
Data: 46 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT40 CH3
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 46
Ant. pol. : VERTICAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.30	28.49	7.47	70.52	35.45	71.03	74.00	2.97	Peak
2	2390.00	28.53	7.51	66.87	35.46	67.45	74.00	6.55	Peak

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

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Economic Development Zone,JiangSu,China
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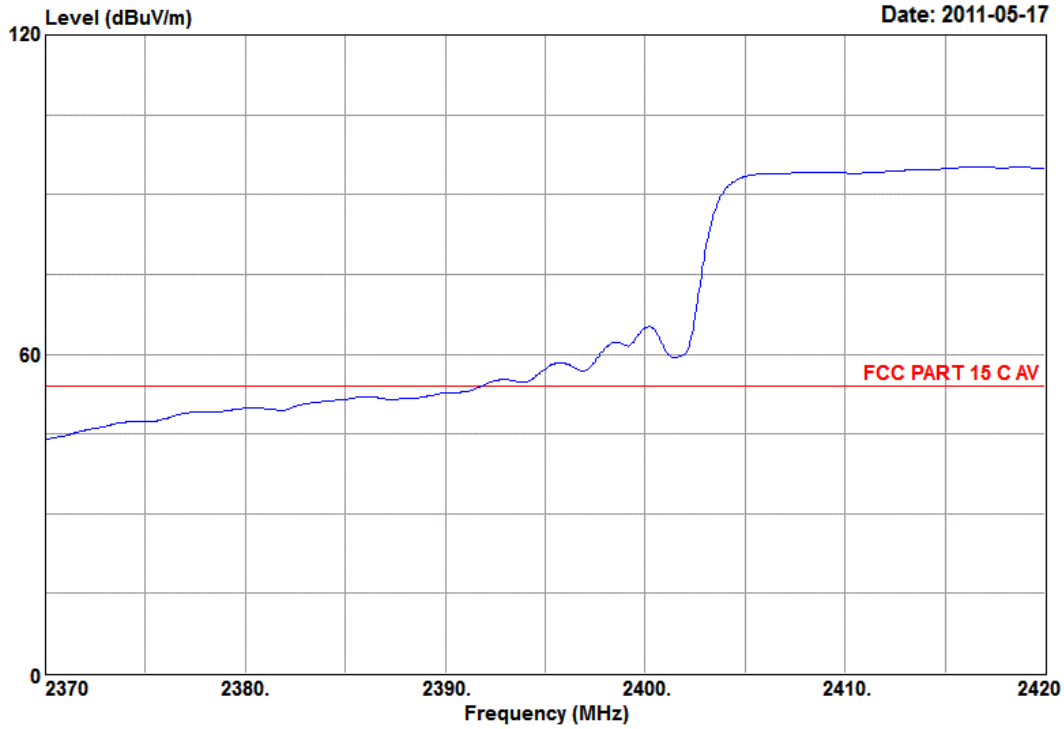
Data: 49 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT40 CH3
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 49
Ant. pol. : VERTICAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.53	7.51	52.14	35.46	52.72	54.00	1.28	Average

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

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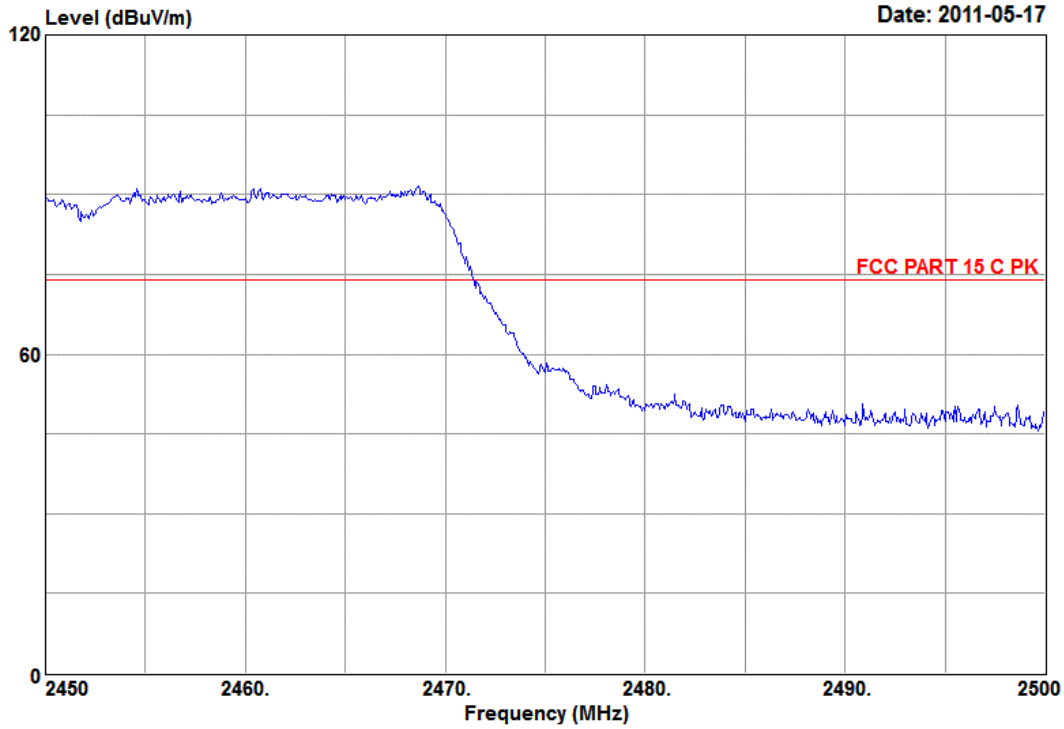
Data: 53 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT40 CH9
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 53
Ant. pol. : HORIZONTAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	48.54	35.49	49.54	74.00	24.46	Peak

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

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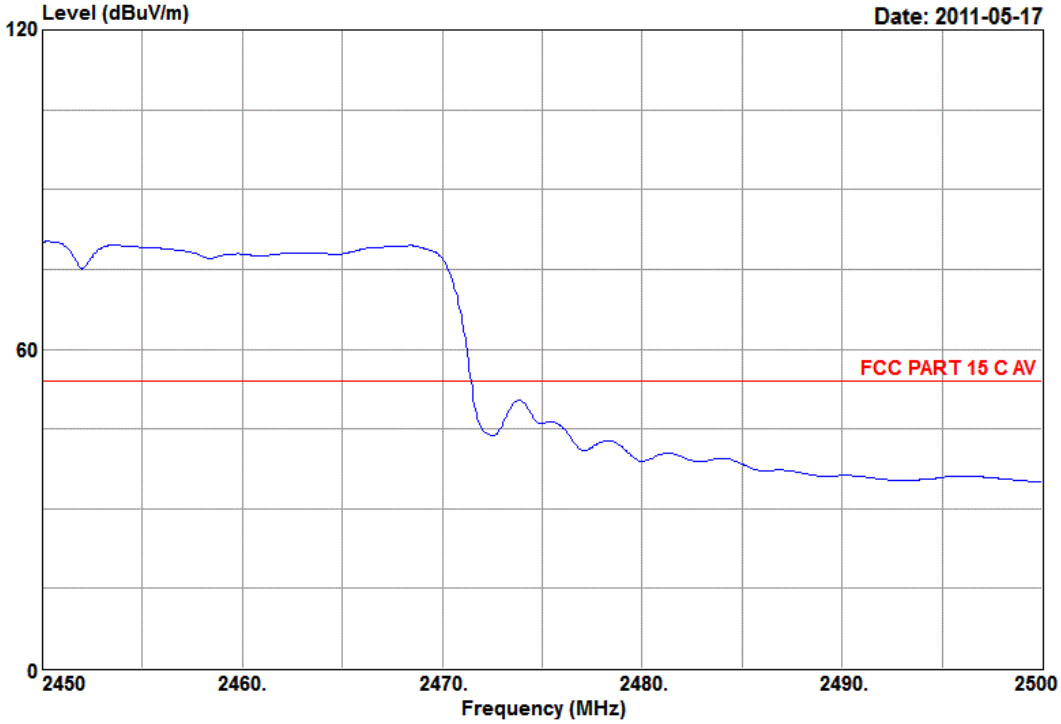
Data: 52 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT40 CH9
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 52
Ant. pol. : HORIZONTAL

Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	38.23	35.49	39.23	54.00	14.77	Average

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

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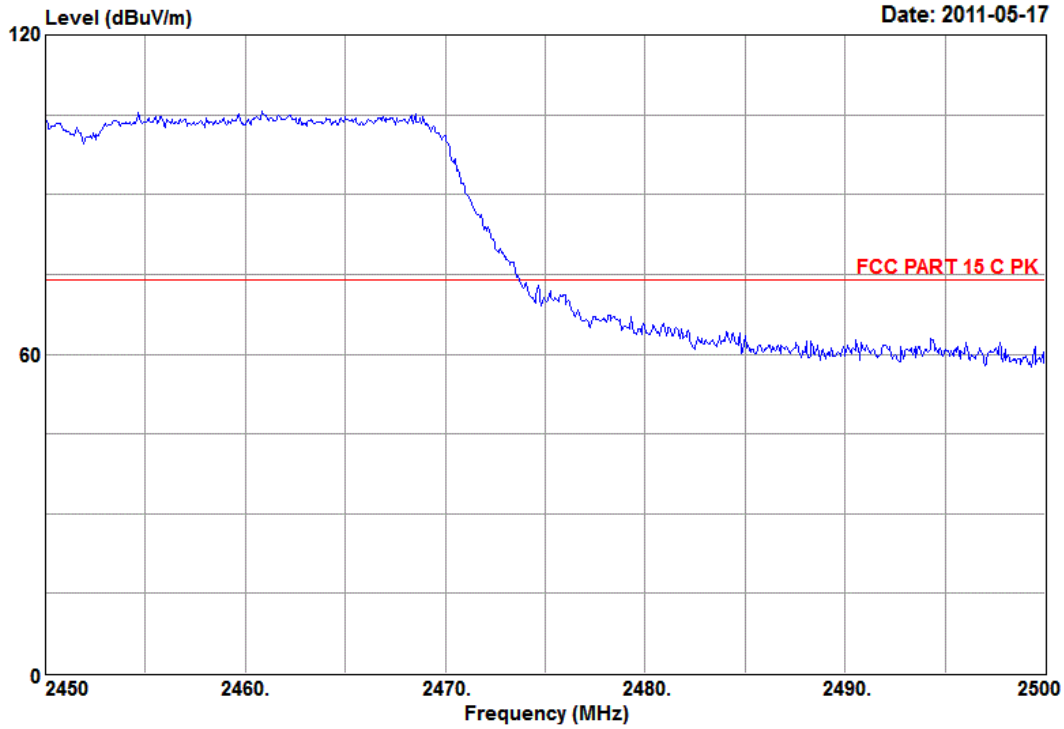
Data: 54 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C PK
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT40 CH9
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 54
Ant. pol. : VERTICAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	60.76	35.49	61.76	74.00	12.24	Peak

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

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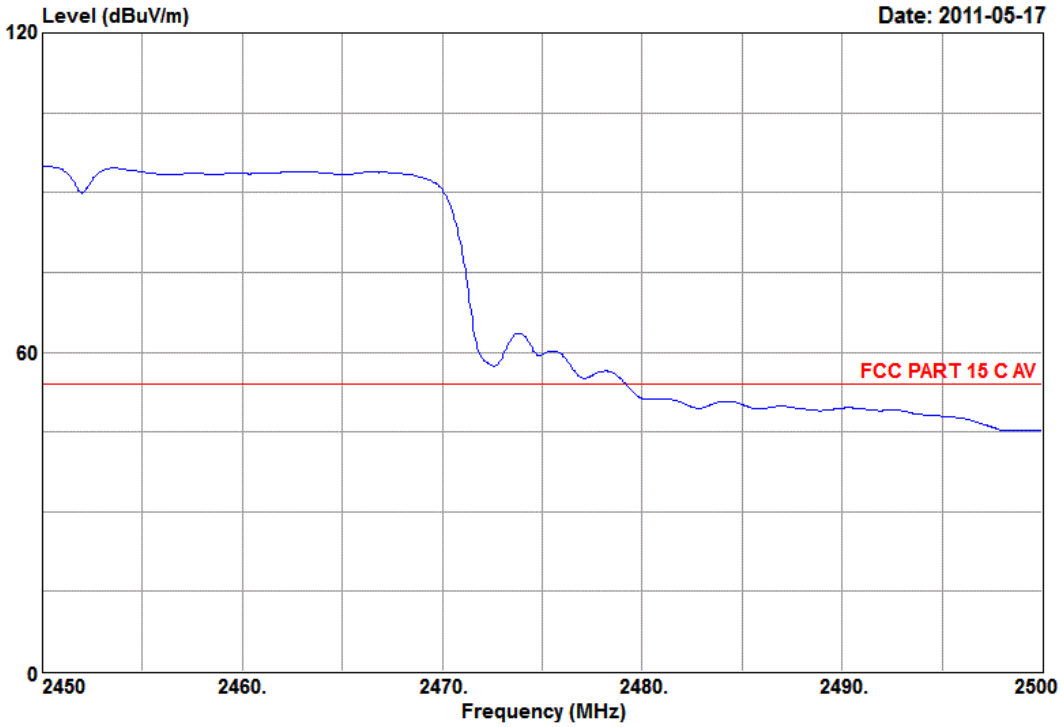
Data: 51 File: G:\Test Data\2011\Reports\02\G1102008.EM6 (78)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m HORN 3115(62961)
Limit : FCC PART 15 C AV
Env. / Ins. : 16.9*C&52%/ESCI
EUT : ADSL
M/N : DSL-N10
Power Rating: 120Vac/60Hz
Test Mode : TX 802.11n HT40 CH9
Memo : Adapter:LEI (MU12-N120100-A1)
Sample #3

Data NO. : 51
Ant. pol. : VERTICAL
Engineer : justin

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Preamp. Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.50	28.76	7.73	49.18	35.49	50.18	54.00	3.82	Average
2	2484.25	28.76	7.73	49.79	35.49	50.79	54.00	3.21	Average

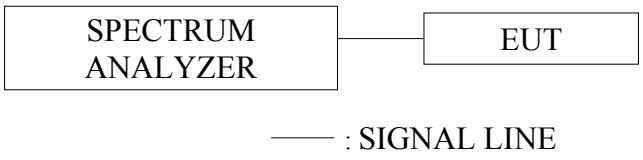
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

5. 6 dB BANDWIDTH MEASUREMENT

5.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2011-01-08	2012-01-07

5.2. Block Diagram of Test Setup



5.3. Specification Limits (§15.247(a)(2))

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.4. Test Results

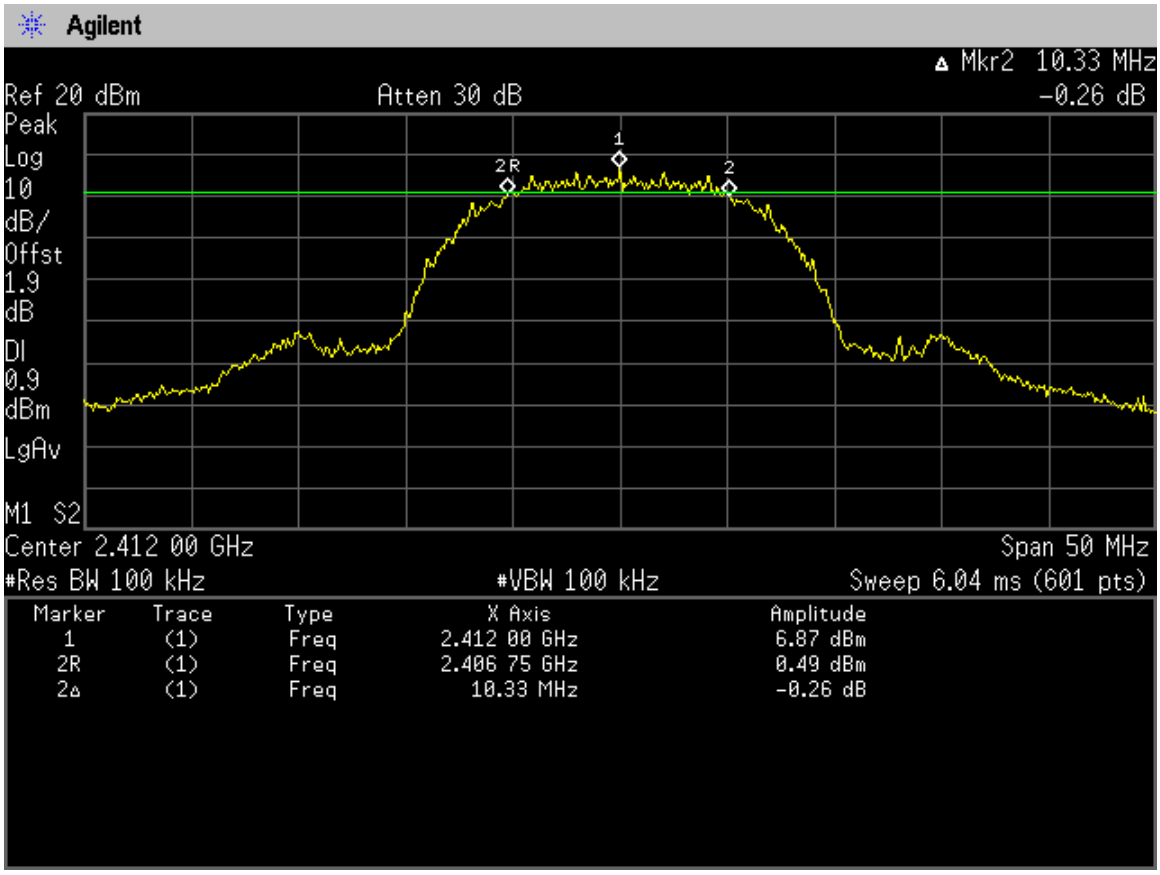
PASSED. All the test results are attached in next pages.

Test Date: May 17, 2011 Temperature: 16.9℃ Humidity: 52 %

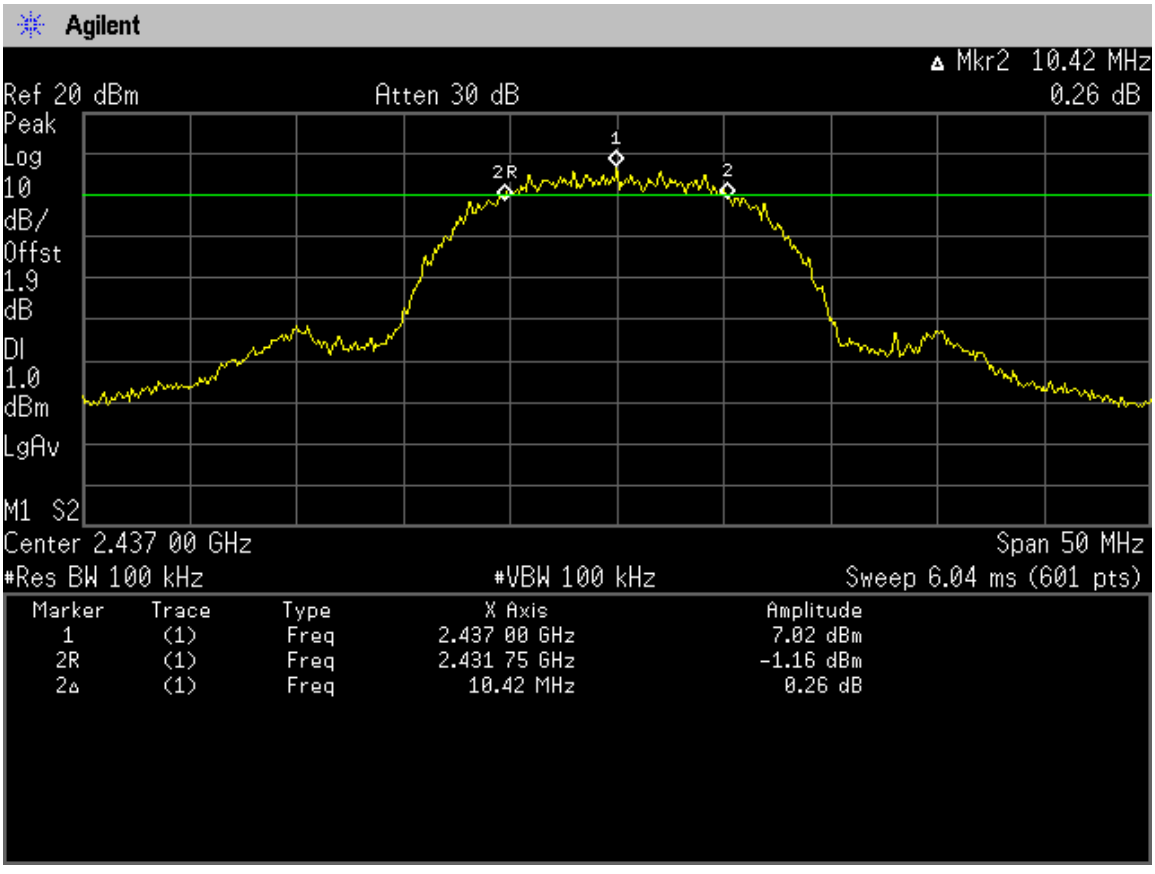
Item	Channel	Test Frequency	**6dB Bandwidth**
802.11b	1	2412MHz	**10.33MHz**
	6	2437MHz	**10.42MHz**
	11	2462MHz	**10.25MHz**
802.11g	1	2412MHz	**16.50MHz**
	6	2437MHz	**16.50MHz**
	11	2462MHz	**16.50MHz**
802.11n HT20	1	2412MHz	**17.33MHz**
	6	2437MHz	**16.92MHz**
	11	2462MHz	**17.25MHz**
802.11n HT40	3	2422MHz	**36.53MHz**
	6	2437MHz	**36.53MHz**
	9	2452MHz	**36.53MHz**

5.4.1.802.11b

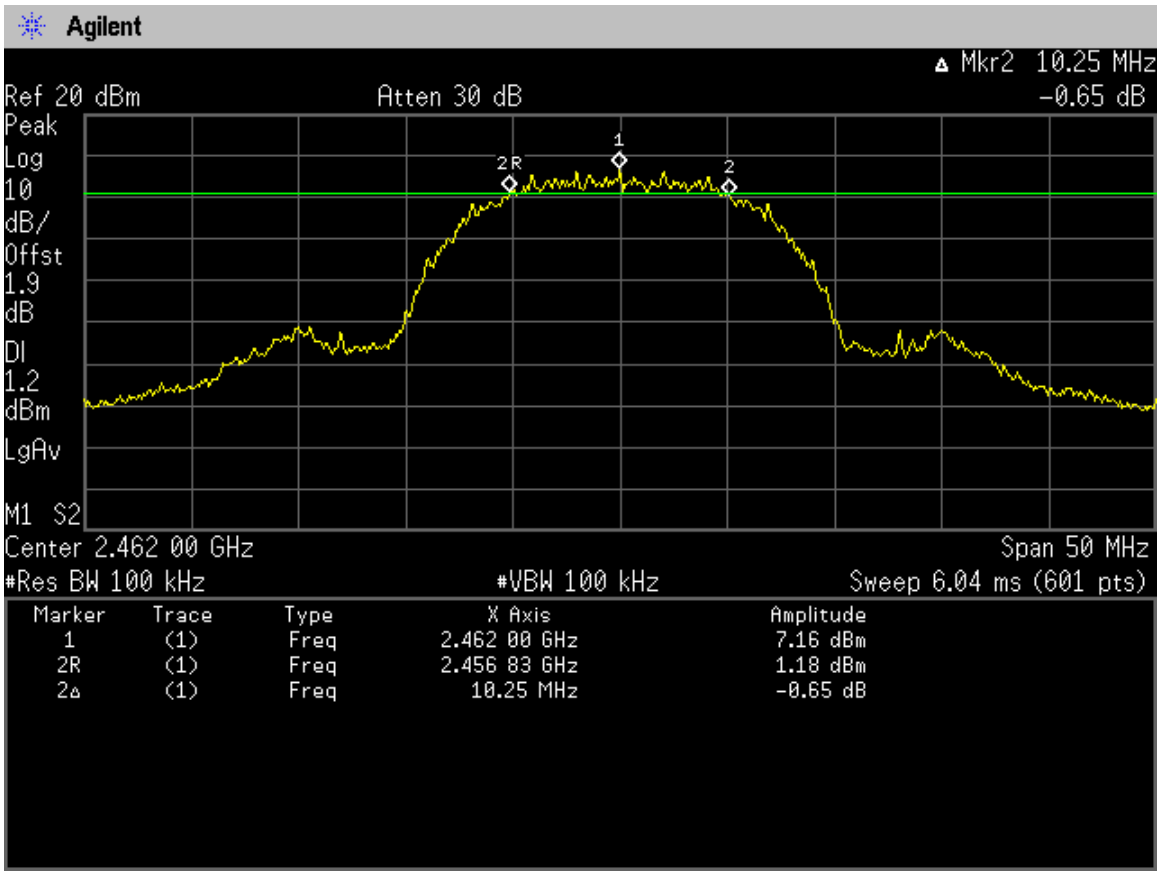
CH1



CH6

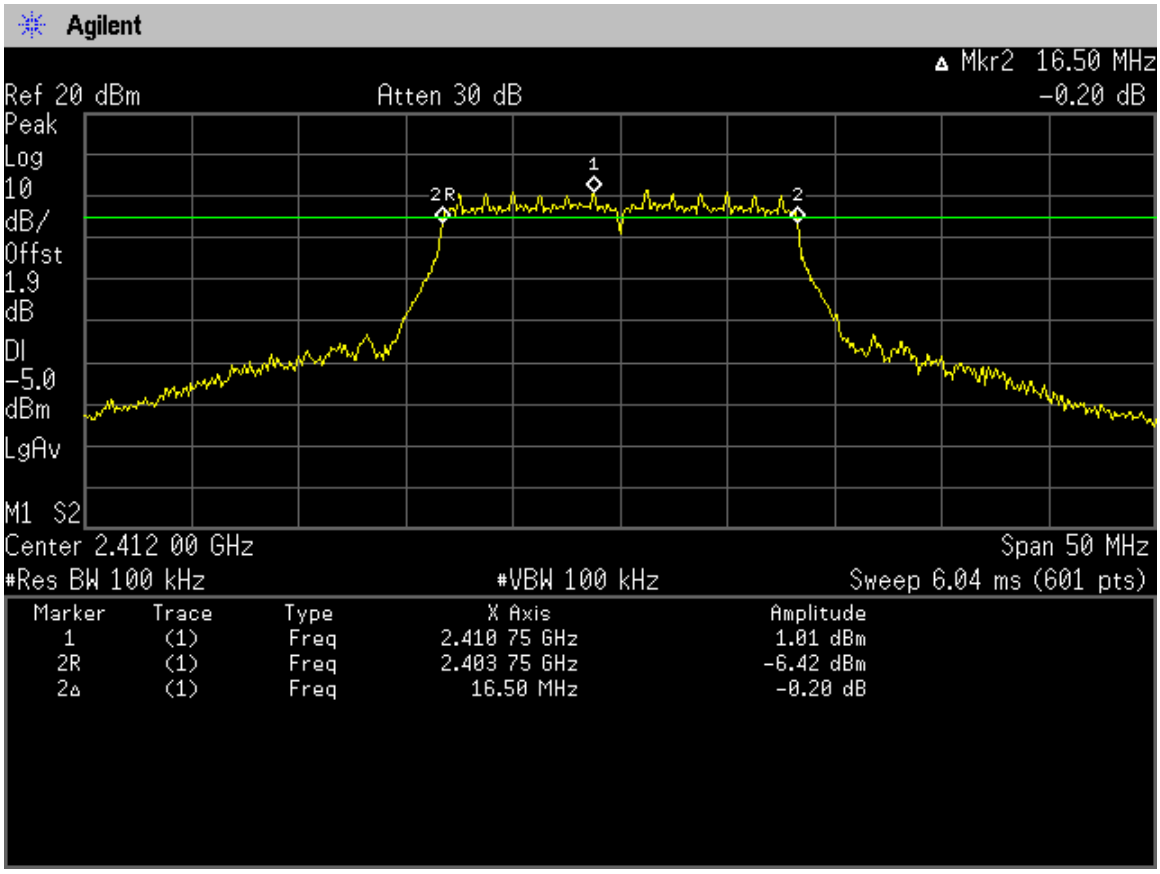


CH11

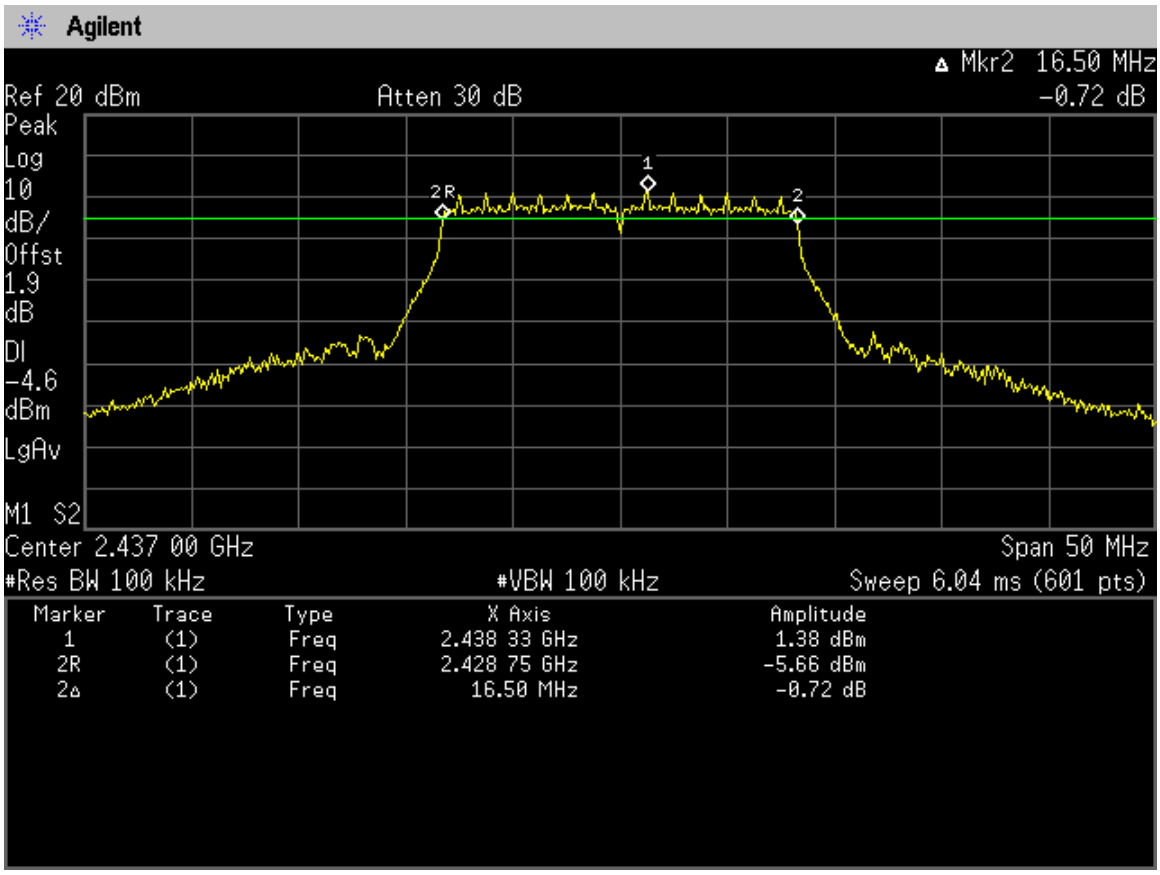


5.4.2.802.11g

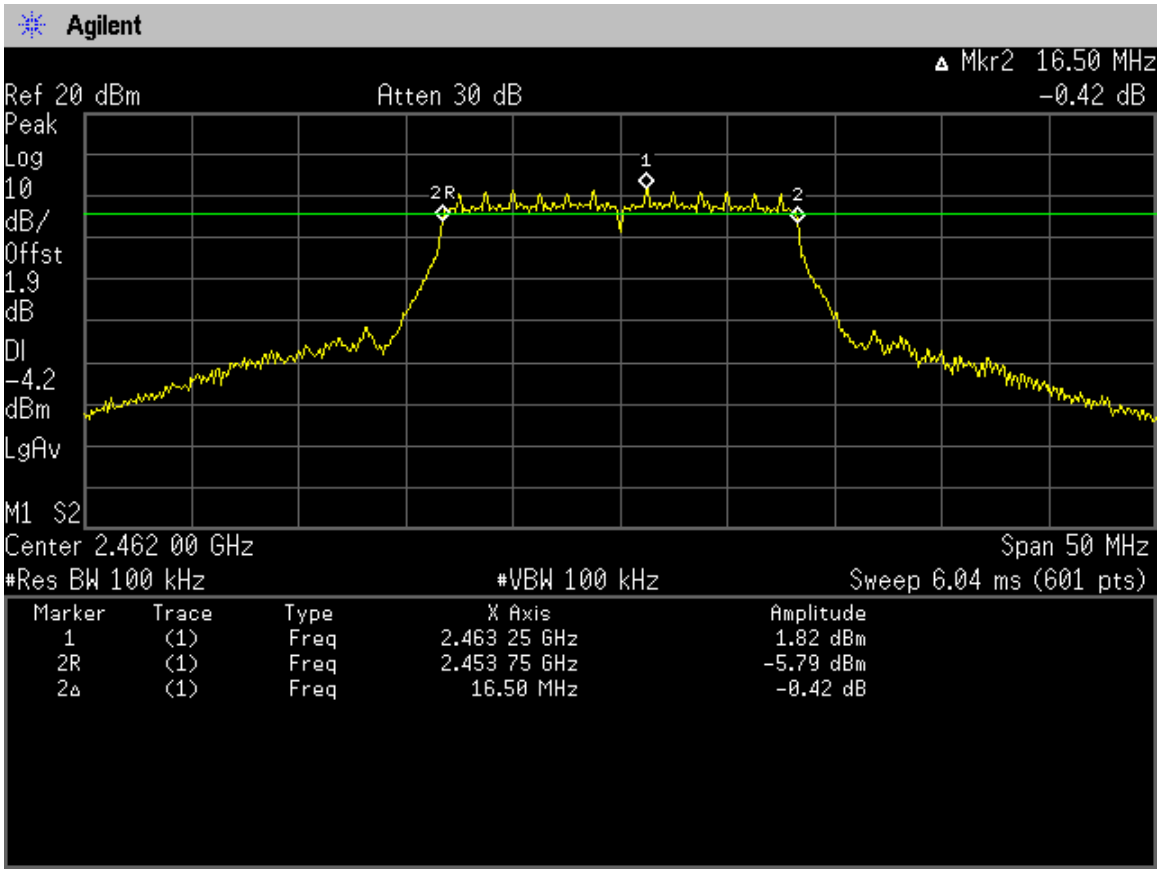
CH1



CH6

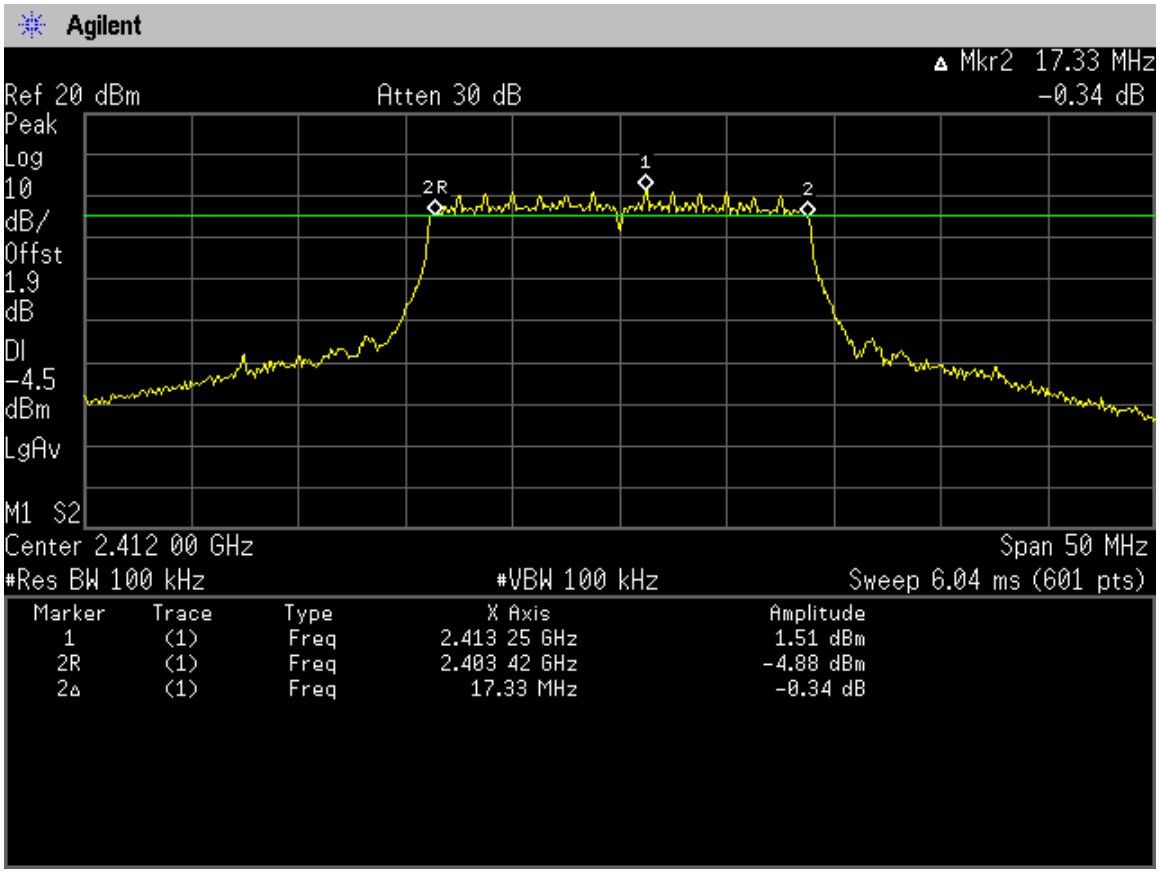

Agilent
Mkr2 16.50 MHz
Ref 20 dBm
Atten 30 dB
-0.72 dB
Peak
Log
10
dB/
Offst
1.9
dB
Dl
-4.6
dBm
LgAv
M1 S2
Center 2.437 00 GHz
Span 50 MHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 6.04 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.438 33 GHz 1.38 dBm
2R (1) Freq 2.428 75 GHz -5.66 dBm
2Δ (1) Freq 16.50 MHz -0.72 dB

CH11

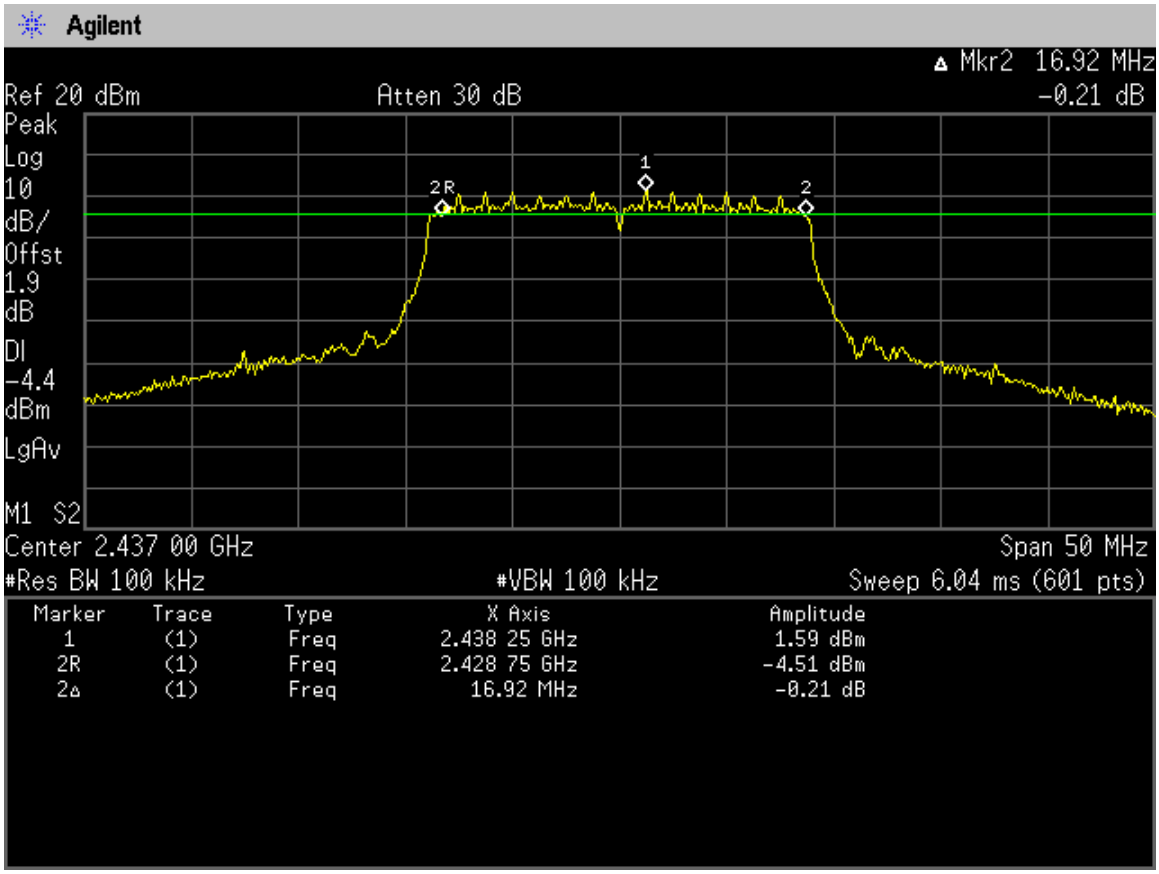

Agilent
Mkr2 16.50 MHz
Ref 20 dBm
Atten 30 dB
-0.42 dB
Peak
Log
10
dB/
Offst
1.9
dB
Dl
-4.2
dBm
LgAv
M1 S2
Center 2.462 00 GHz
Span 50 MHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 6.04 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.463 25 GHz 1.82 dBm
2R (1) Freq 2.453 75 GHz -5.79 dBm
2Δ (1) Freq 16.50 MHz -0.42 dB

5.4.3.802.11n HT20

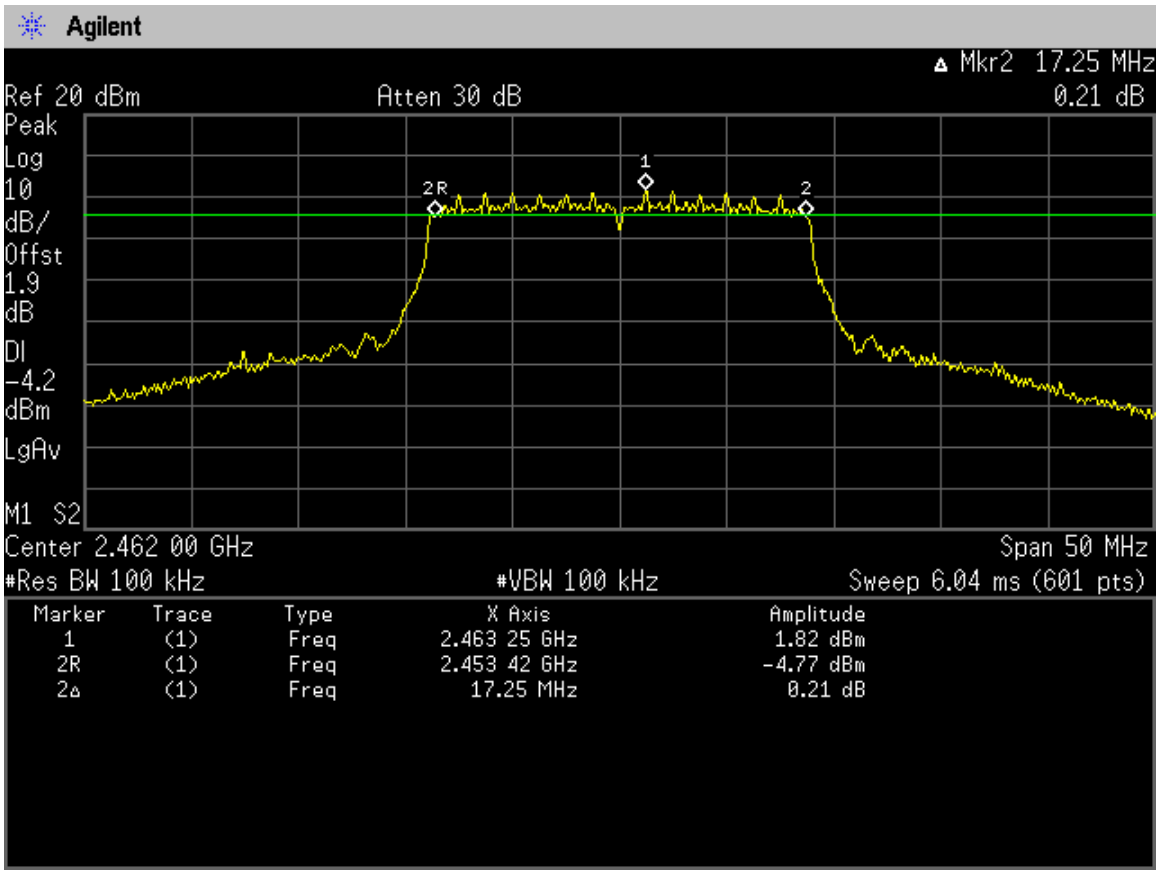
CH1



CH6

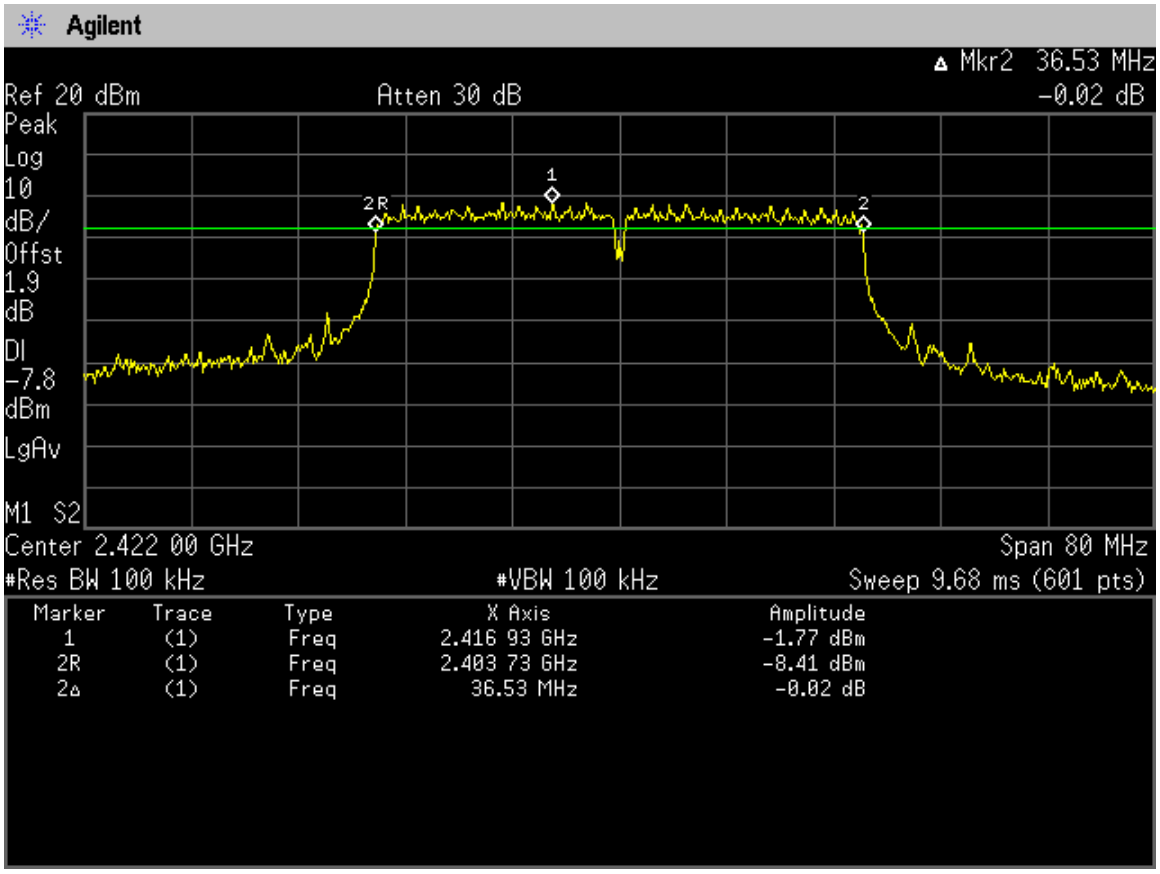


CH11

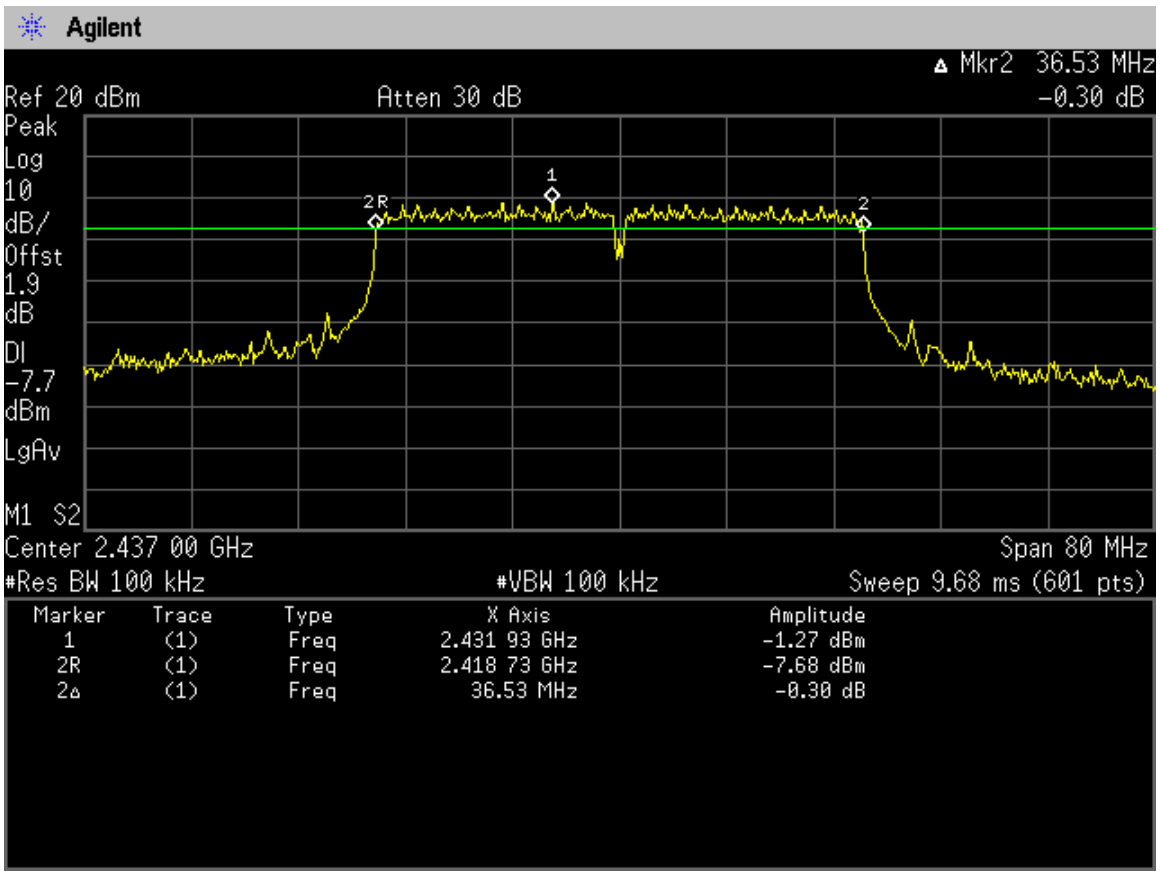


5.4.4.802.11n HT40

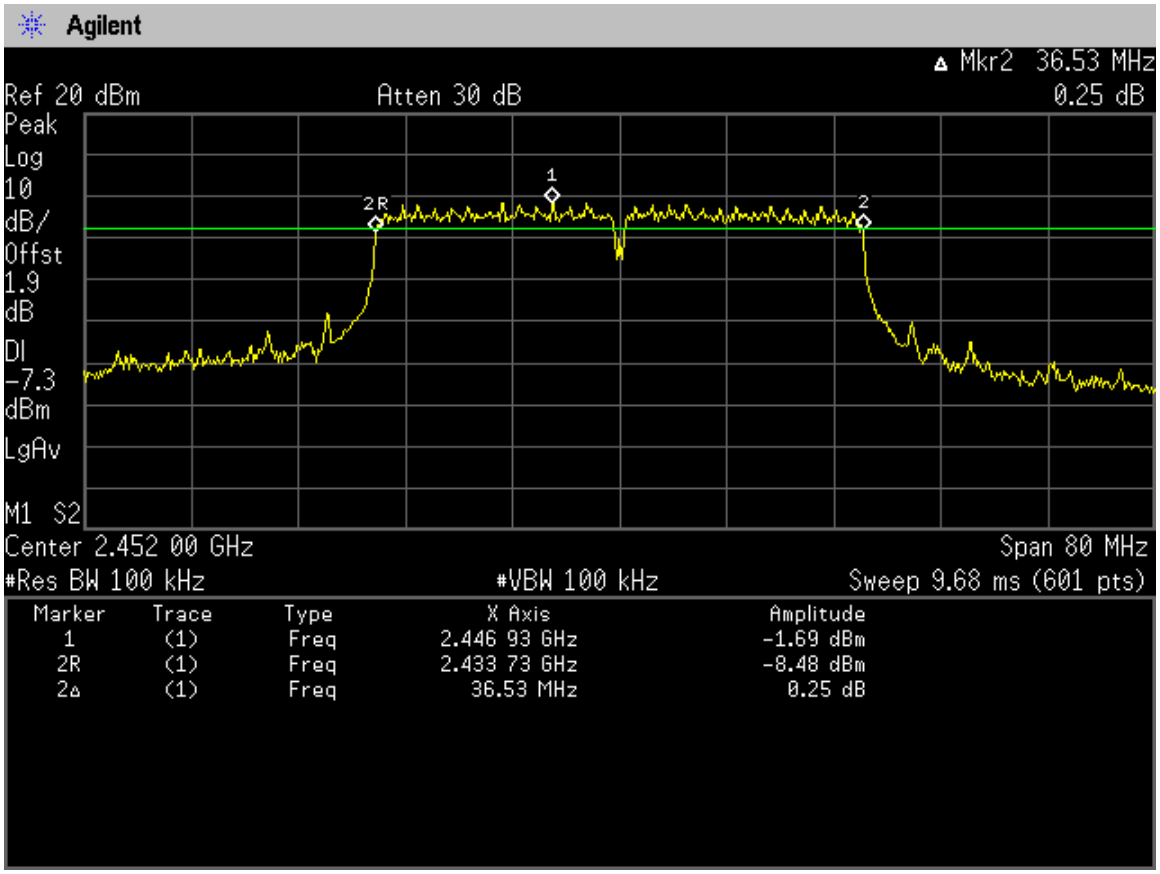
CH3



CH6


Agilent
Mkr2 36.53 MHz
Ref 20 dBm
Atten 30 dB
-0.30 dB
Peak
Log
10
dB/
Offst
1.9
dB
Dl
-7.7
dBm
LgAv
M1 S2
Center 2.437 00 GHz
Span 80 MHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 9.68 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.431 93 GHz -1.27 dBm
2R (1) Freq 2.418 73 GHz -7.68 dBm
2Δ (1) Freq 36.53 MHz -0.30 dB

CH9

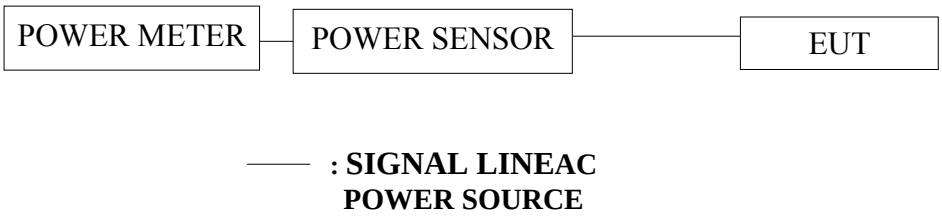

Agilent
Mkr2 36.53 MHz
Ref 20 dBm
Atten 30 dB
0.25 dB
Peak
Log
10
dB/
Offst
1.9
dB
Dl
-7.3
dBm
LgAv
M1 S2
Center 2.452 00 GHz
Span 80 MHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 9.68 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.446 93 GHz -1.69 dBm
2R (1) Freq 2.433 73 GHz -8.48 dBm
2Δ (1) Freq 36.53 MHz 0.25 dB

6. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

6.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Agilent	N1911A	MY45100361	2011-01-05	2012-01-04
2.	Power Sensor	Agilent	N1921A	MY45240521	2011-01-05	2012-01-04

6.2. Block Diagram of Test Setup



6.3. Specification Limits (§15.247(b)(3))

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the *maximum conducted output power* is the highest total transmit power occurring in any mode.

6.4. Test Results

PASSED. All the test results are attached in next pages.

Test Date: May 17, 2011 Test Mode: 802.11b

Channel / Rate	CH1	CH6	CH11
1Mbps	18.46	18.78	18.83
2Mbps	18.72	19.12	19.07
5.5Mbps	18.92	19.28	19.26
11Mbps	18.96	19.45	19.37

Test Date: May 17, 2011 Test Mode: 802.11g

Channel / Rate	CH1	CH6	CH11
6Mbps	24.56	24.90	24.89
9Mbps	23.84	24.20	24.29
12 Mbps	23.54	23.96	23.99
18 Mbps	23.65	23.99	24.01
24 Mbps	24.51	24.84	24.87
36 Mbps	23.73	24.07	24.55
48 Mbps	24.43	24.86	24.73
54 Mbps	24.36	24.71	24.66

Test Date: May 17, 2011 Test Mode: 802.11n HT20

Channel / Rate	CH1	CH6	CH11
MCS0	23.92	24.23	24.15
MCS1	24.28	24.86	24.81
MCS2	24.05	24.44	24.42
MCS3	23.20	23.83	24.37
MCS4	23.54	23.58	23.74
MCS5	24.08	24.22	24.44
MCS6	24.26	24.74	24.67
MCS7	24.22	24.48	24.22
MCS8	23.83	24.38	24.20
MCS9	24.08	24.59	24.50
MCS10	23.82	24.38	24.37
MCS11	23.50	23.64	24.34
MCS12	23.98	23.86	23.90
MCS13	24.00	24.53	23.84
MCS14	23.74	24.66	24.41
MCS15	23.70	24.55	24.48

Test Date: Feb.15, 2011 Test Mode: 802.11n HT40

Channel / Rate	CH1	CH6	CH11
MCS0	21.38	22.03	20.54
MCS1	21.23	21.70	20.01
MCS2	21.60	22.06	20.36
MCS3	21.92	22.35	20.50
MCS4	22.28	22.73	20.73
MCS5	22.33	22.75	20.64
MCS6	22.50	22.84	20.88
MCS7	22.20	22.48	20.85
MCS8	21.48	22.04	19.92
MCS9	21.22	21.74	19.71
MCS10	21.38	21.99	19.84
MCS11	21.85	22.35	20.14
MCS12	21.99	22.64	20.53
MCS13	22.17	22.70	20.36
MCS14	22.30	22.71	20.29
MCS15	22.02	22.41	20.27

7. BAND EDGES MEASUREMENT

7.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2011-01-08	2012-01-07

7.2. Block Diagram of Test Setup

The same as section 5.2.

7.3. Specification Limits (§15.247(d))

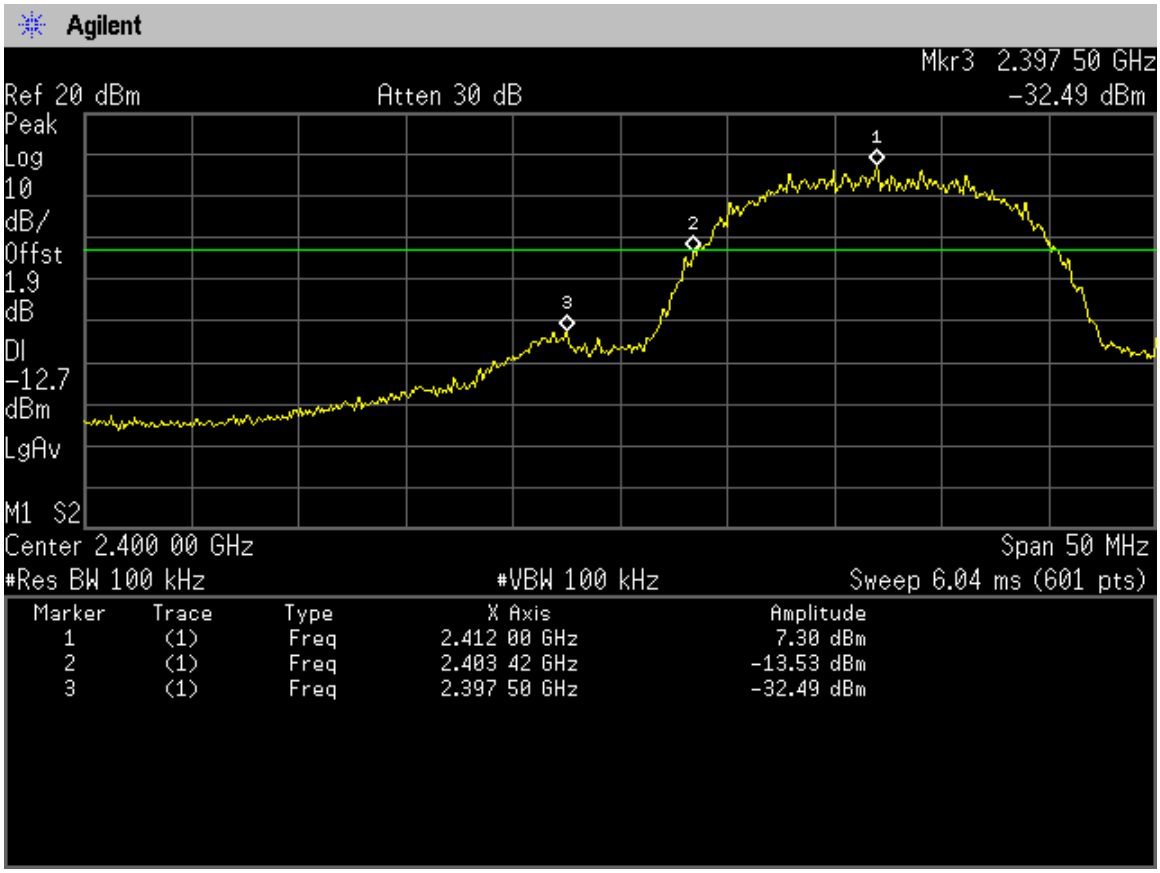
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

7.4. Test Results

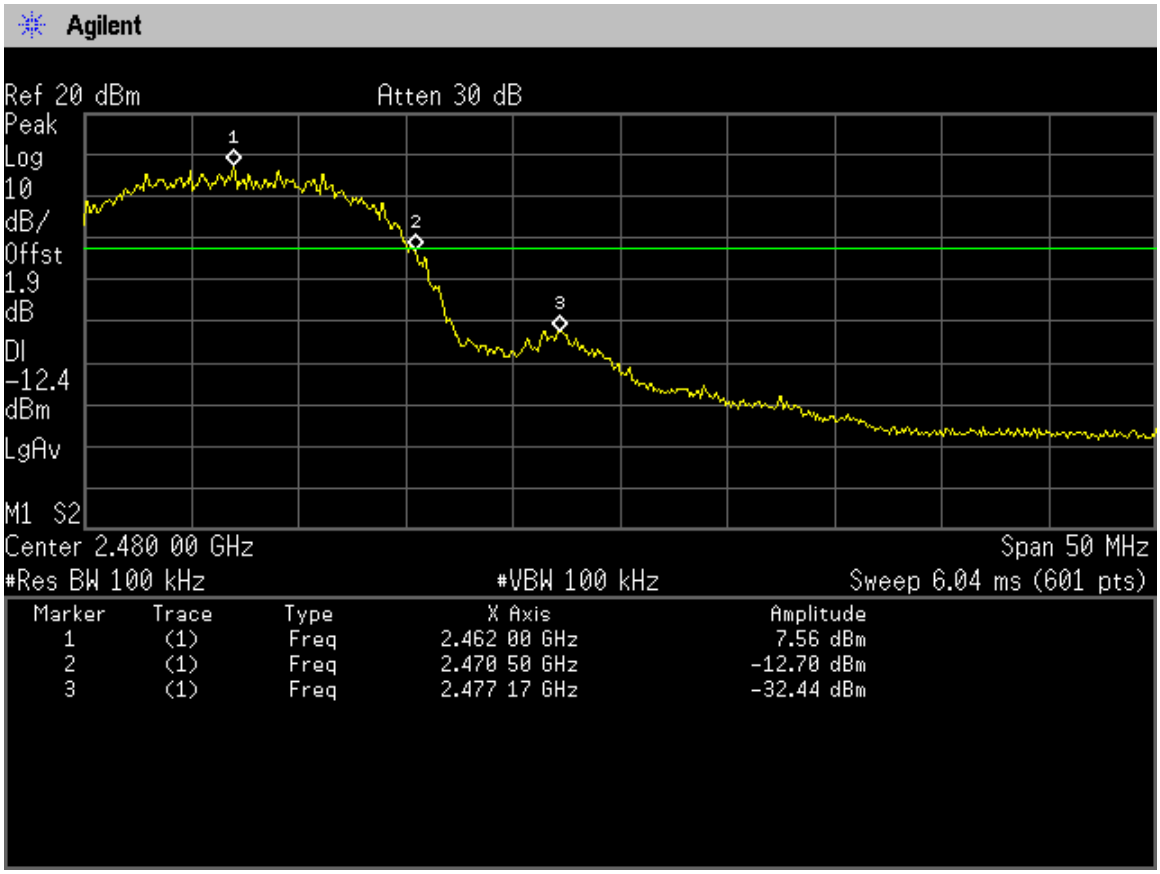
PASSED. The testing data was attached in the next pages.

7.4.1.802.11b

CH1

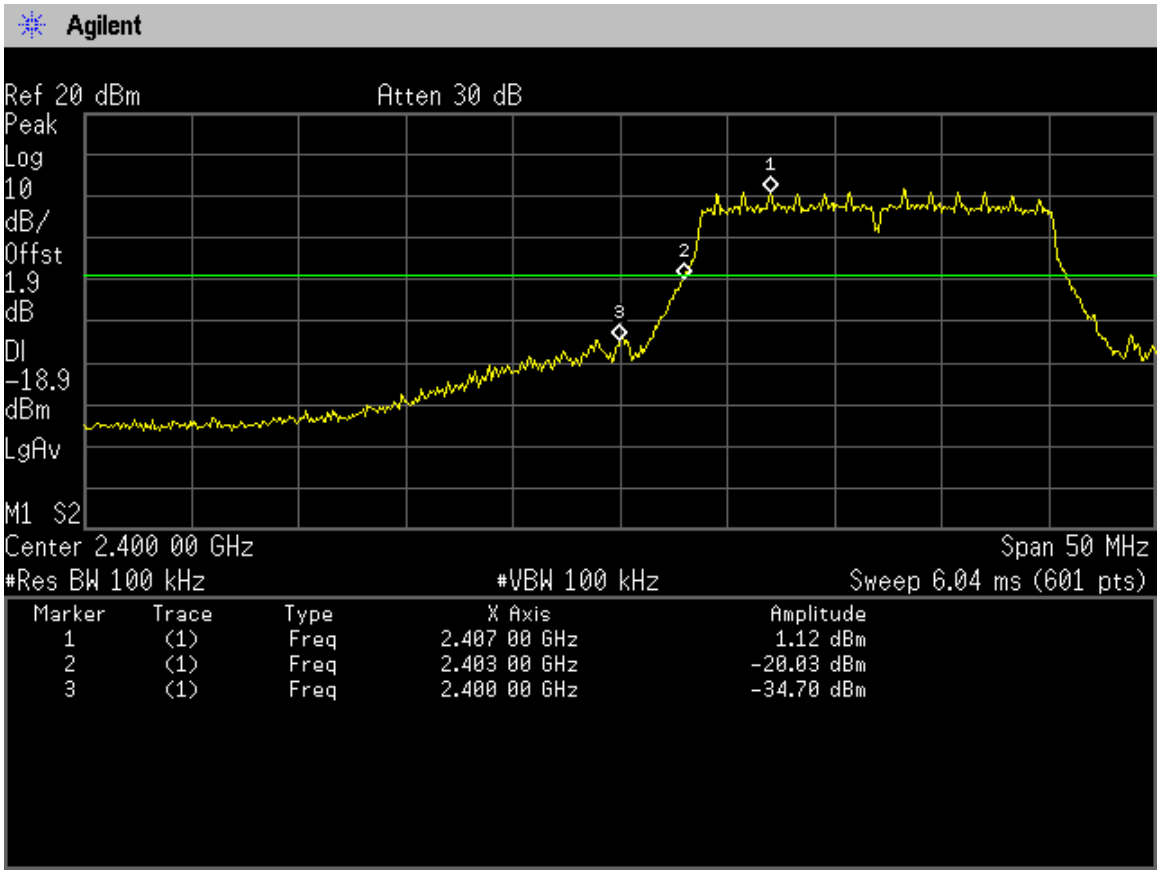


CH11

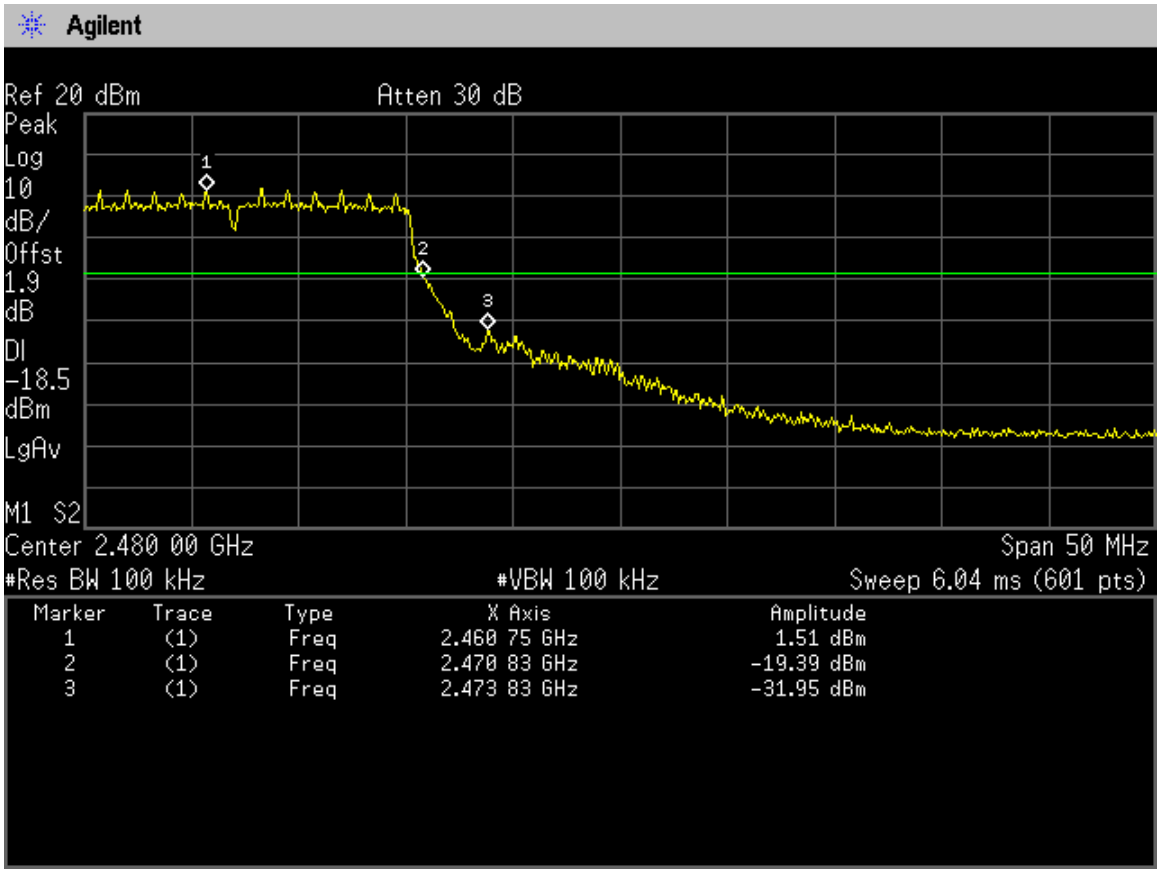


7.4.2.802.11g

CH1

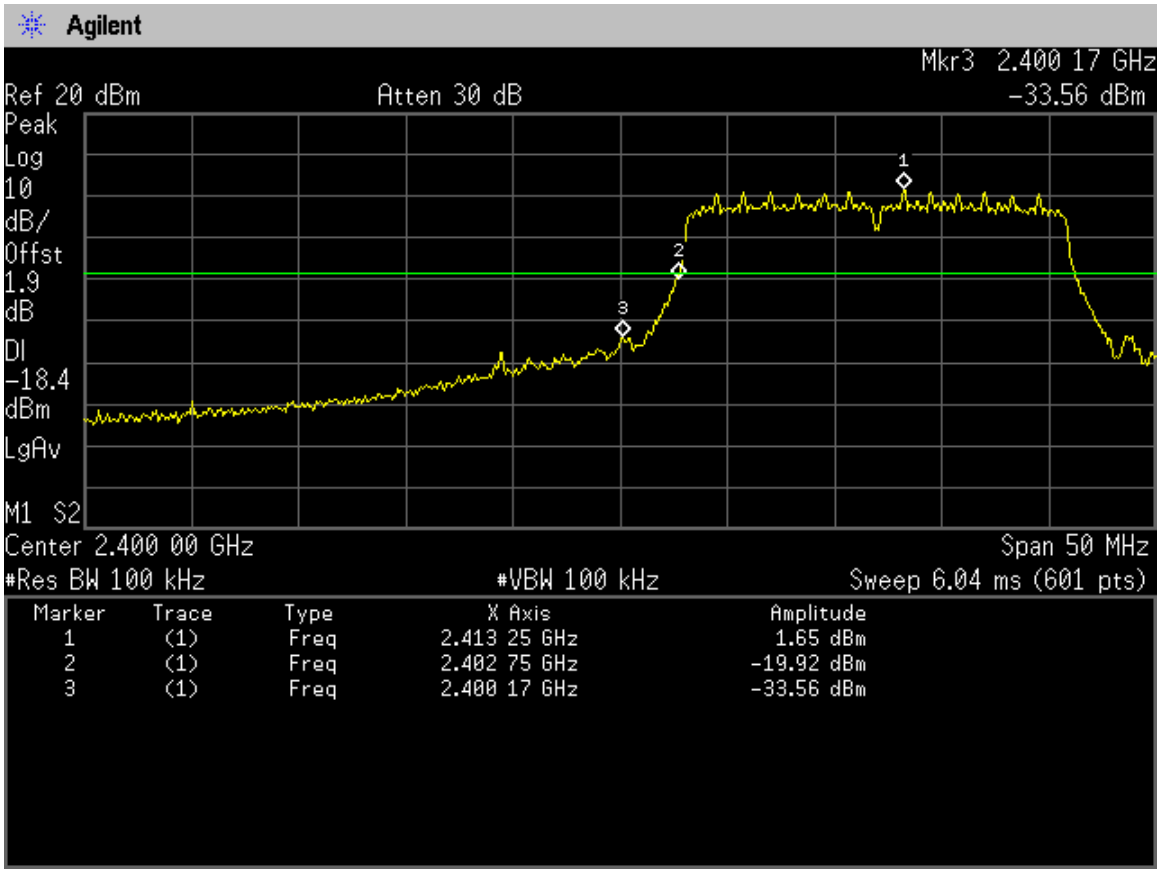


CH11

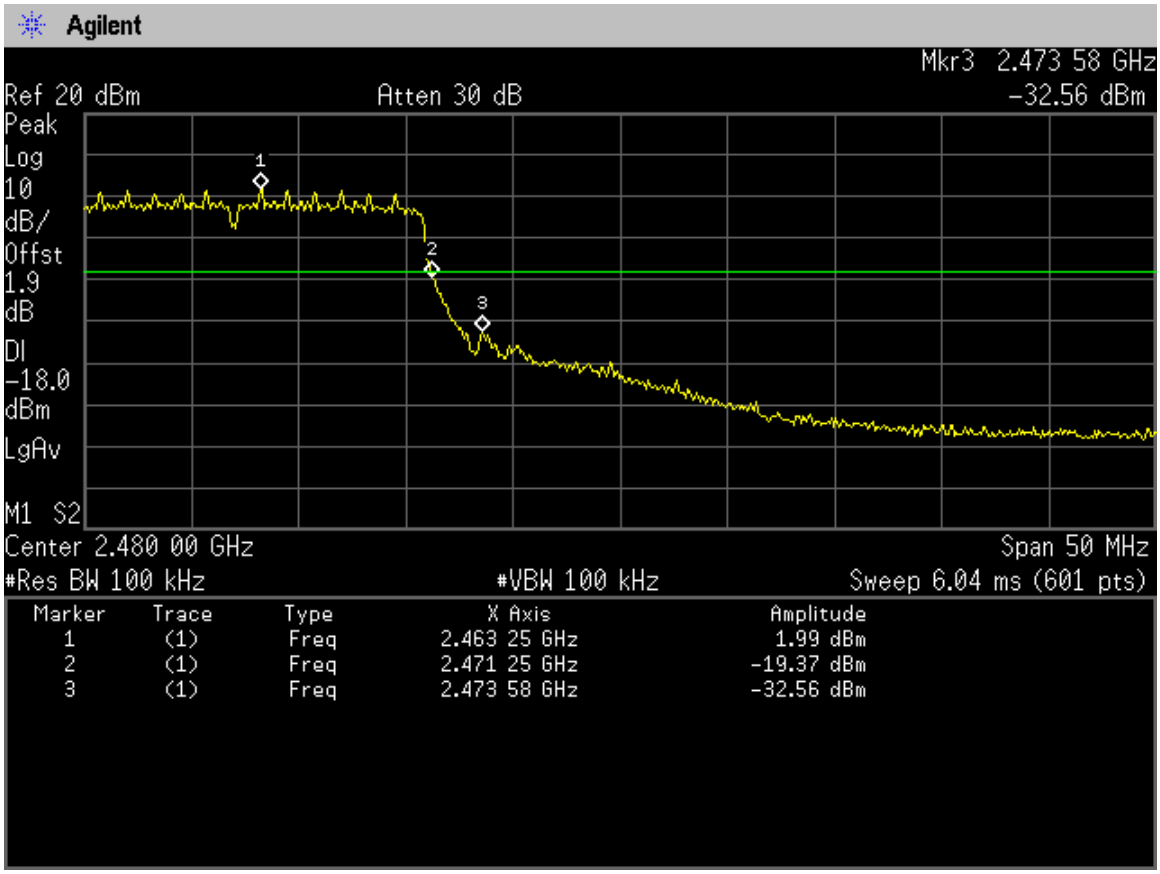


7.4.3.802.11n HT20

CH1

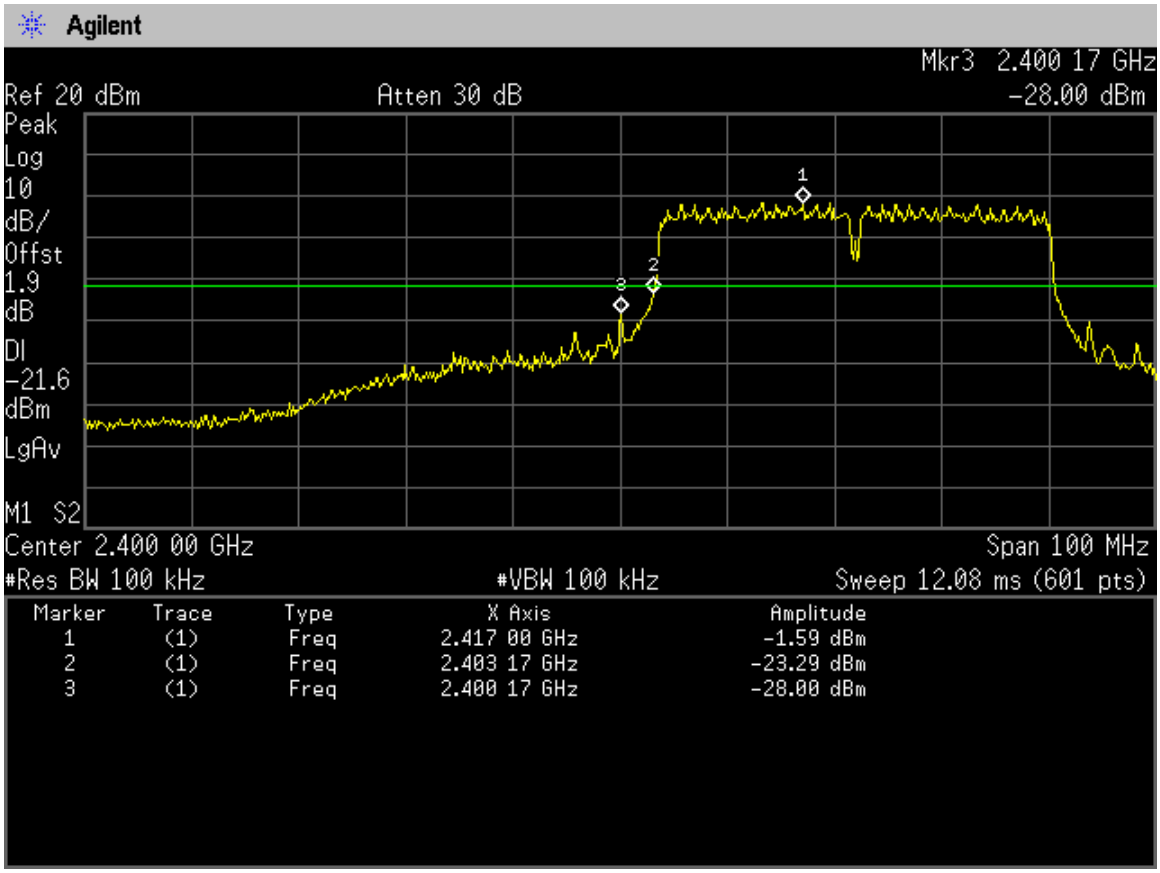


CH11

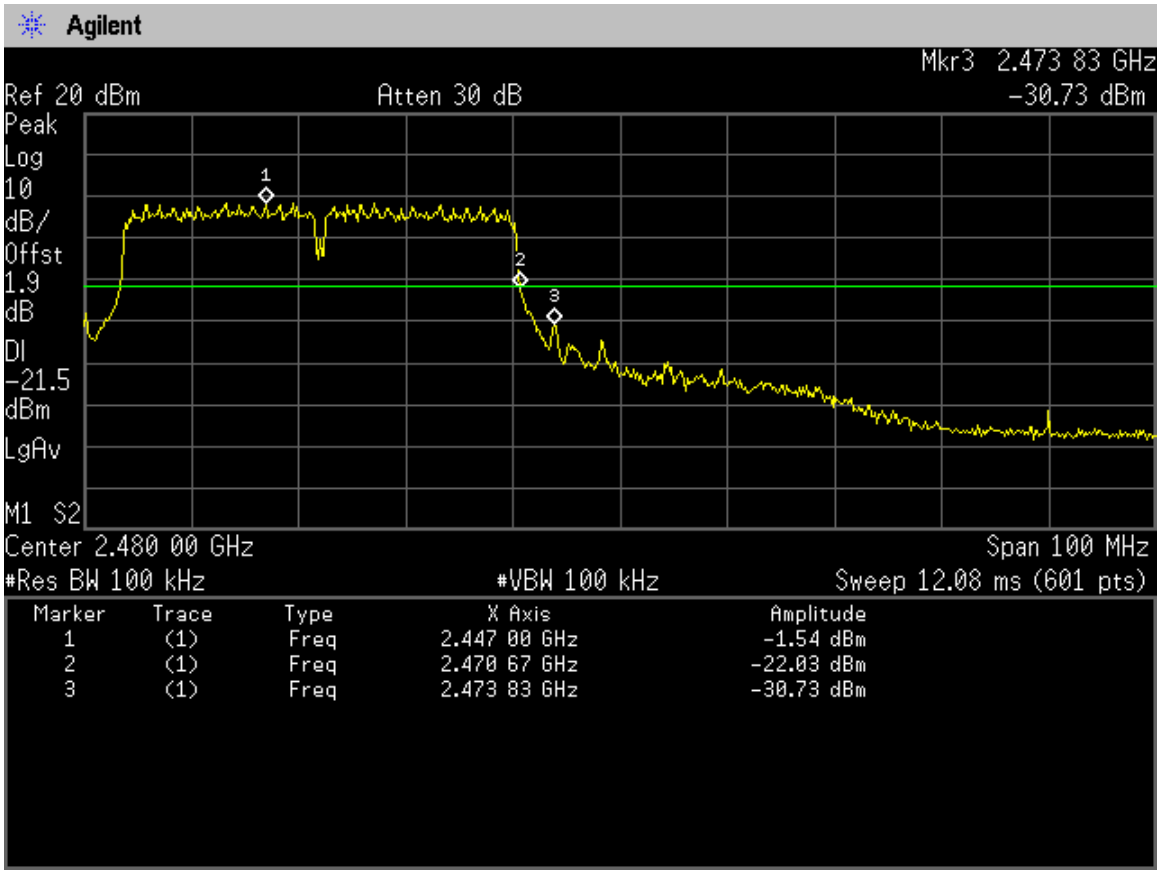


7.4.4.802.11n HT40

CH3



CH9



8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2011-01-08	2012-01-07

8.2. Block Diagram of Test Setup

The same as section 5.2.

8.3. Specification Limits (§15.247(e))

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

8.4. Test Results

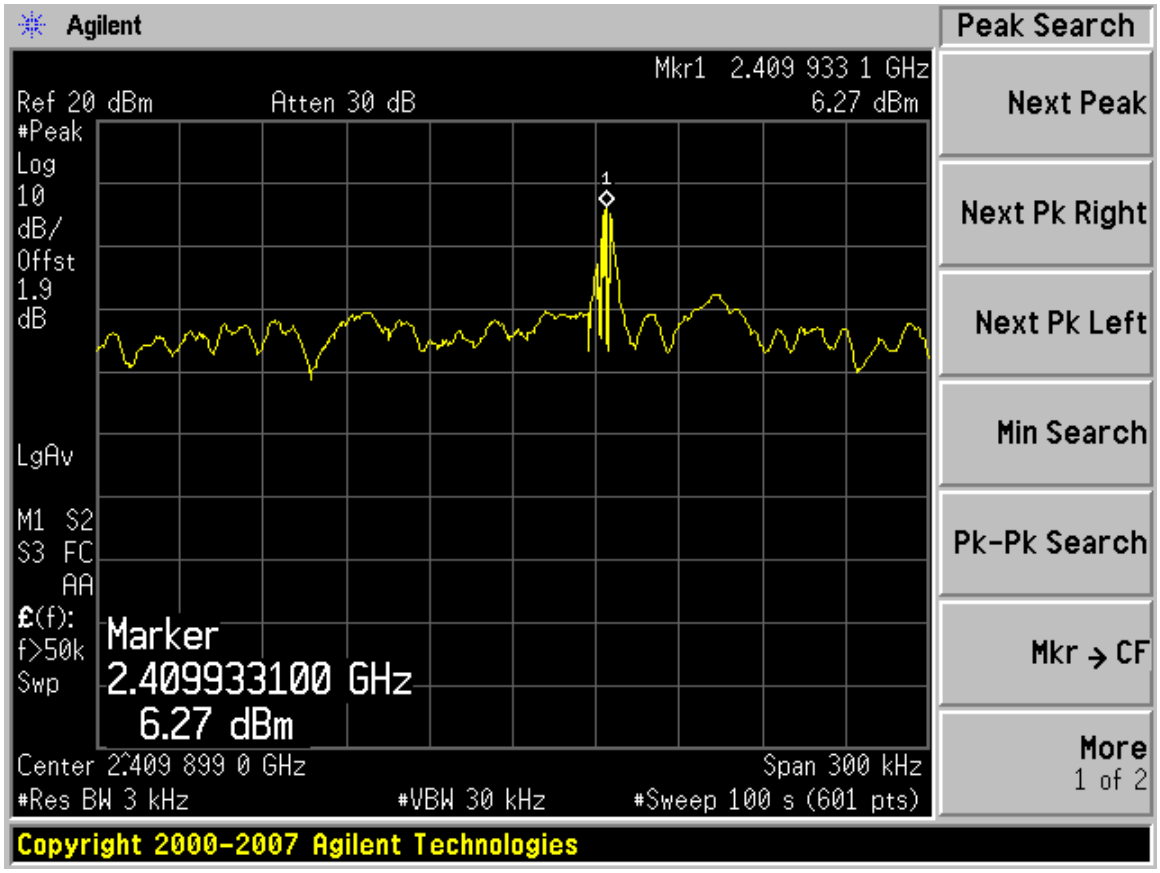
PASSED. All the test results are attached in next page.

Test Date: May 17, 2011 Temperature: 16.9℃ Humidity: 52 %

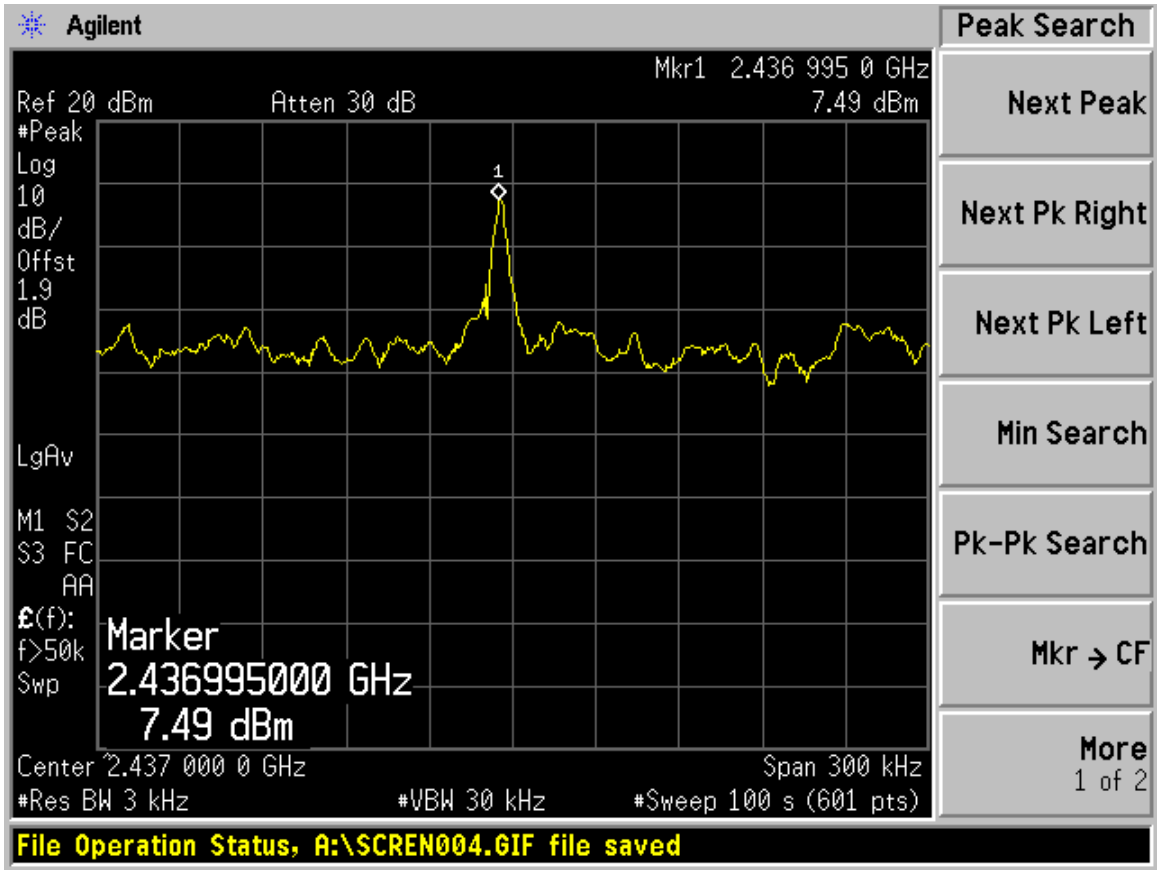
Item	Channel	Frequency(GHz)	**Value(dBm)**
802.11b	1	2.4099331GHz	**6.27**
	6	2.4369950GHz	**7.49**
	11	2.4619950GHz	**7.67**
802.11g	1	2.4132871GHz	**-12.71**
	6	2.4357390GHz	**-12.11**
	11	2.4632867GHz	**-12.39**
802.11n HT20	1	2.4132826GHz	**-14.11**
	6	2.4382817GHz	**-14.19**
	11	2.4632817GHz	**-14.03**
802.11n HT40	3	2.4169935GHz	**-17.32**
	6	2.4319935GHz	**-16.82**
	9	2.4469930GHz	**-17.31**

8.4.1.802.11b

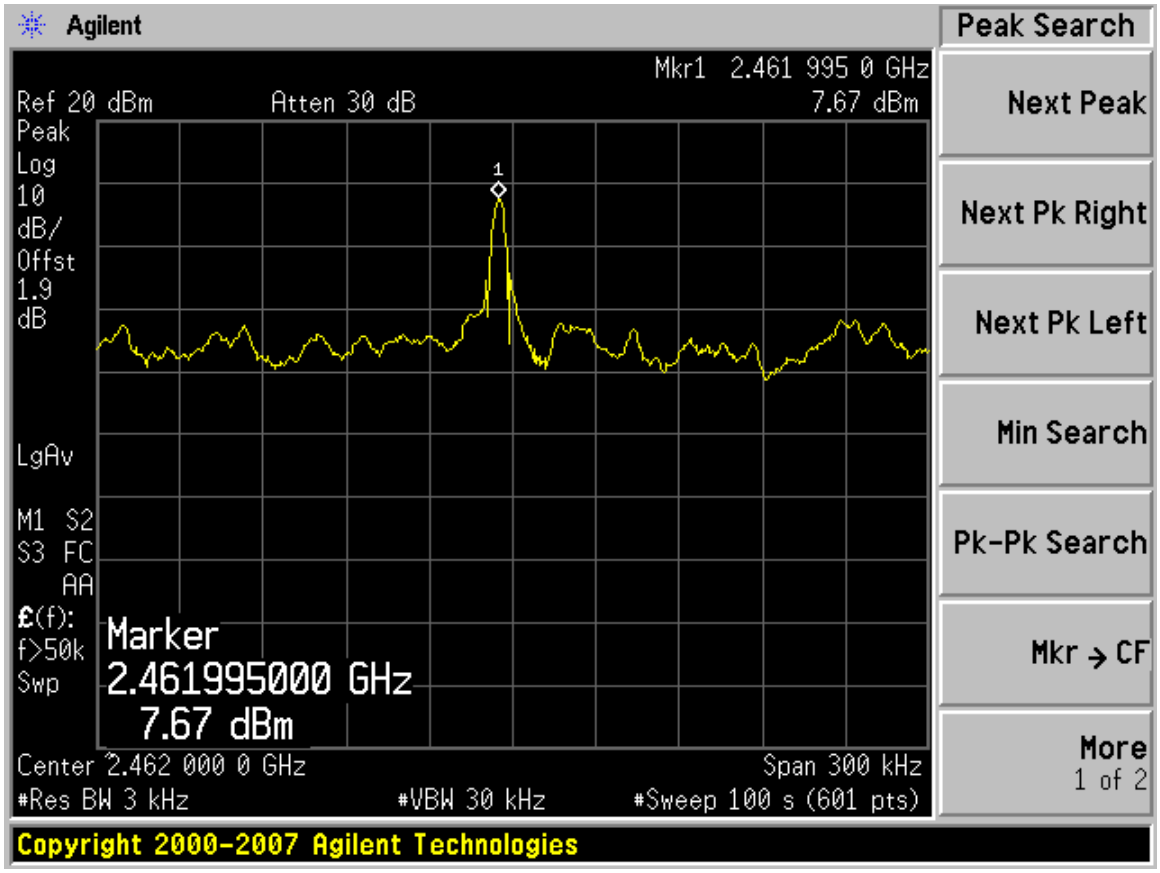
CH1



CH6

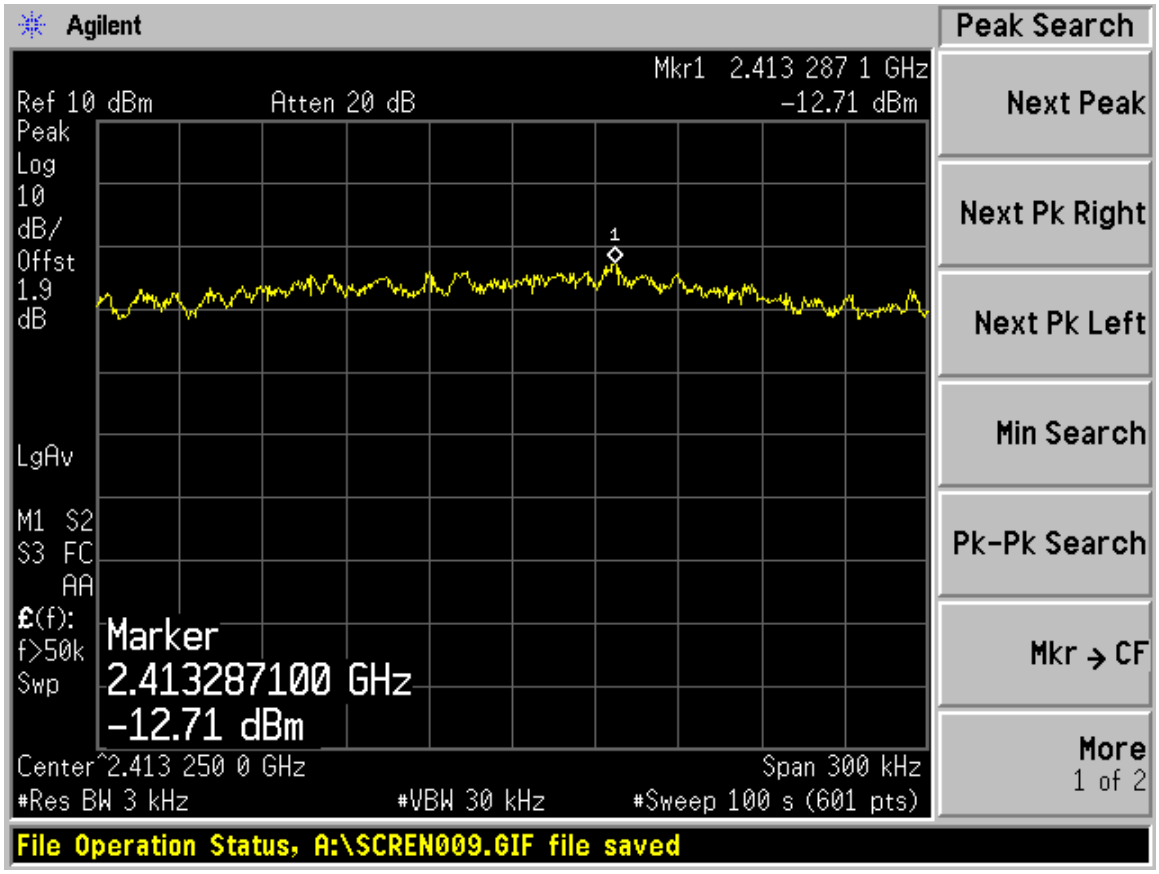


CH11

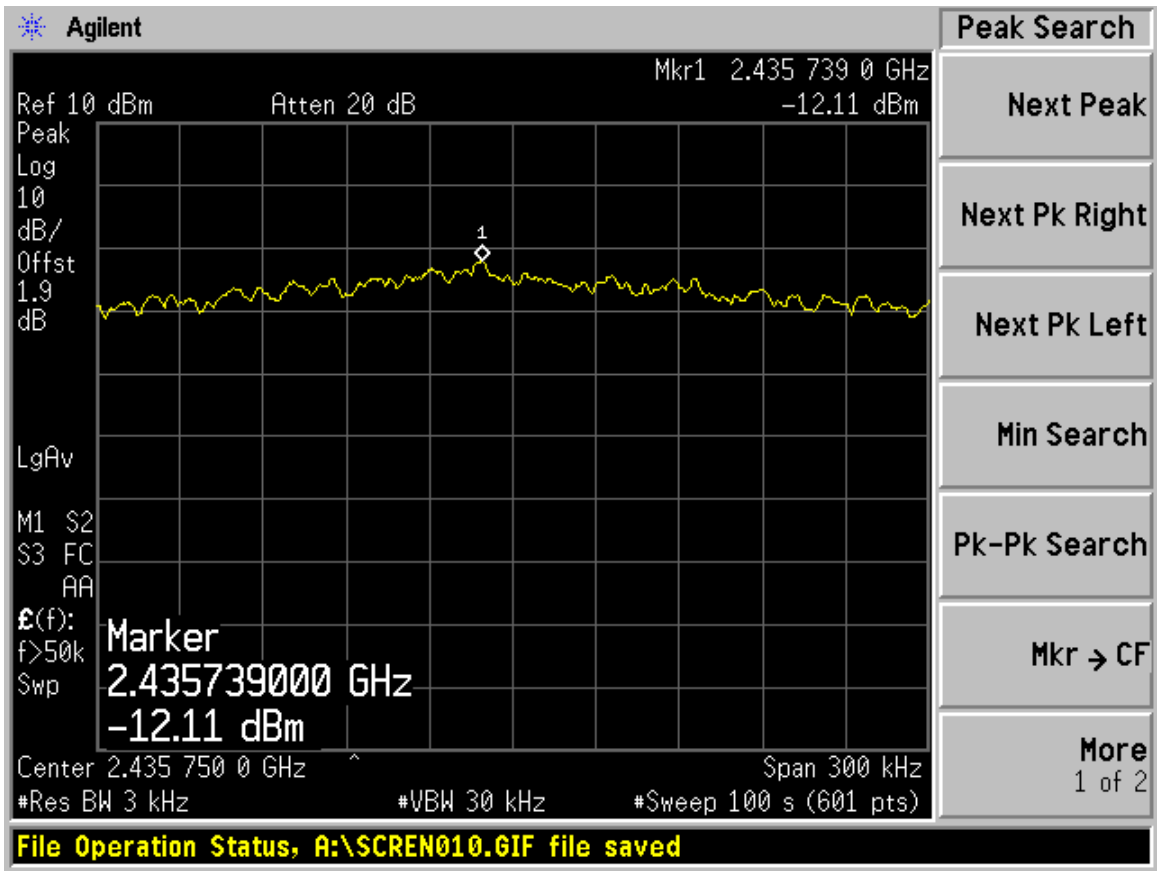


8.4.2.802.11g

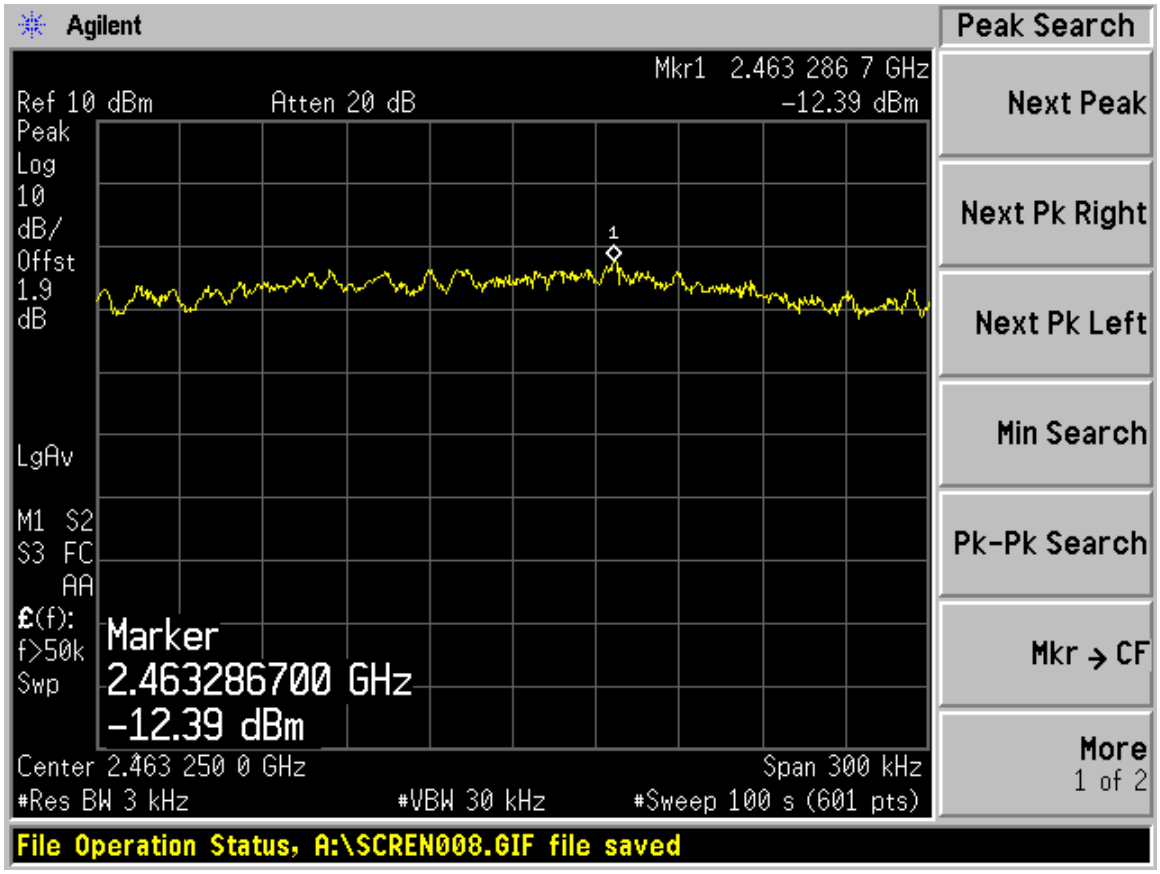
CH1



CH6

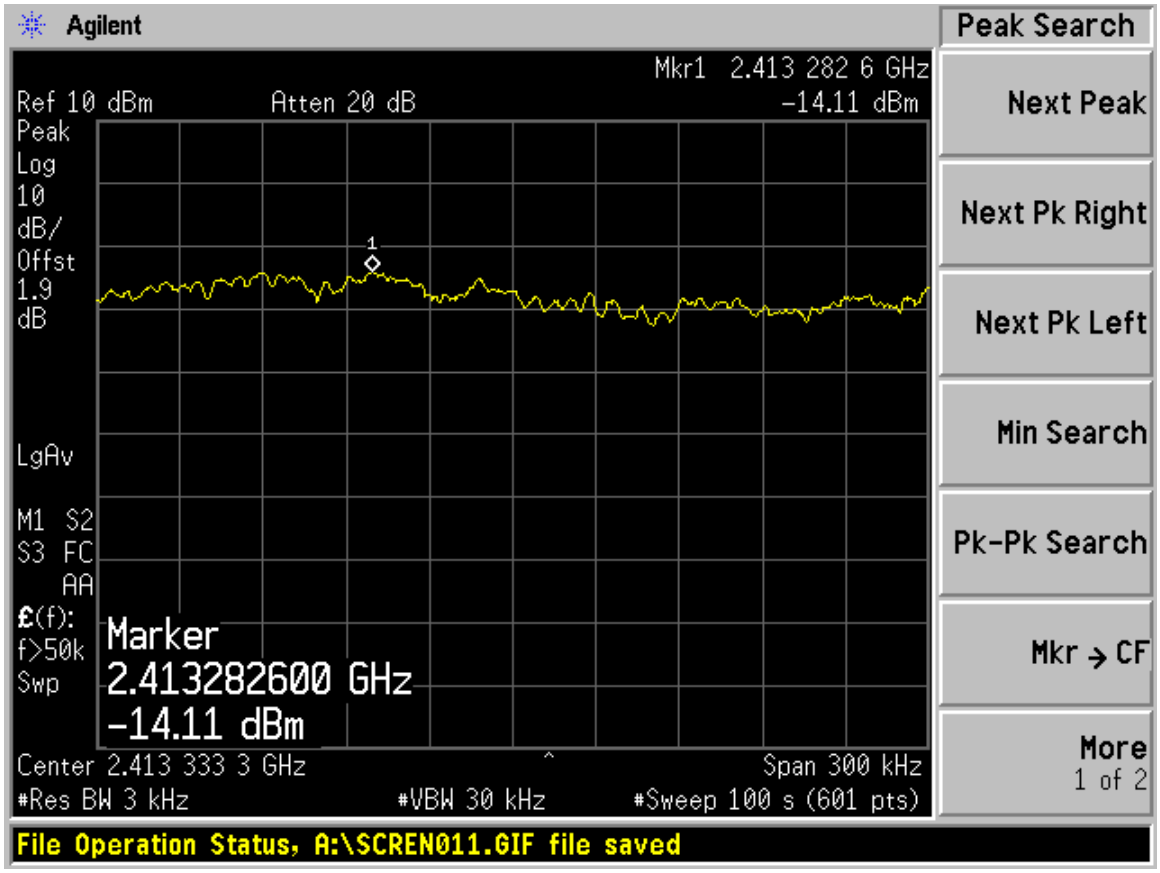

Agilent
Peak Search
Mkr1 2.435 739 0 GHz
Ref 10 dBm
Atten 20 dB
-12.11 dBm
Peak
Log
10
dB/
Offst
1.9
dB
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
LgAv
M1 S2
S3 FC
AA
£(f):
f>50k
Swp
Marker
2.435739000 GHz
-12.11 dBm
Center 2.435 750 0 GHz
Span 300 kHz
#Res BW 3 kHz
#VBW 30 kHz
#Sweep 100 s (601 pts)
File Operation Status, A:\SCREN010.GIF file saved

CH11

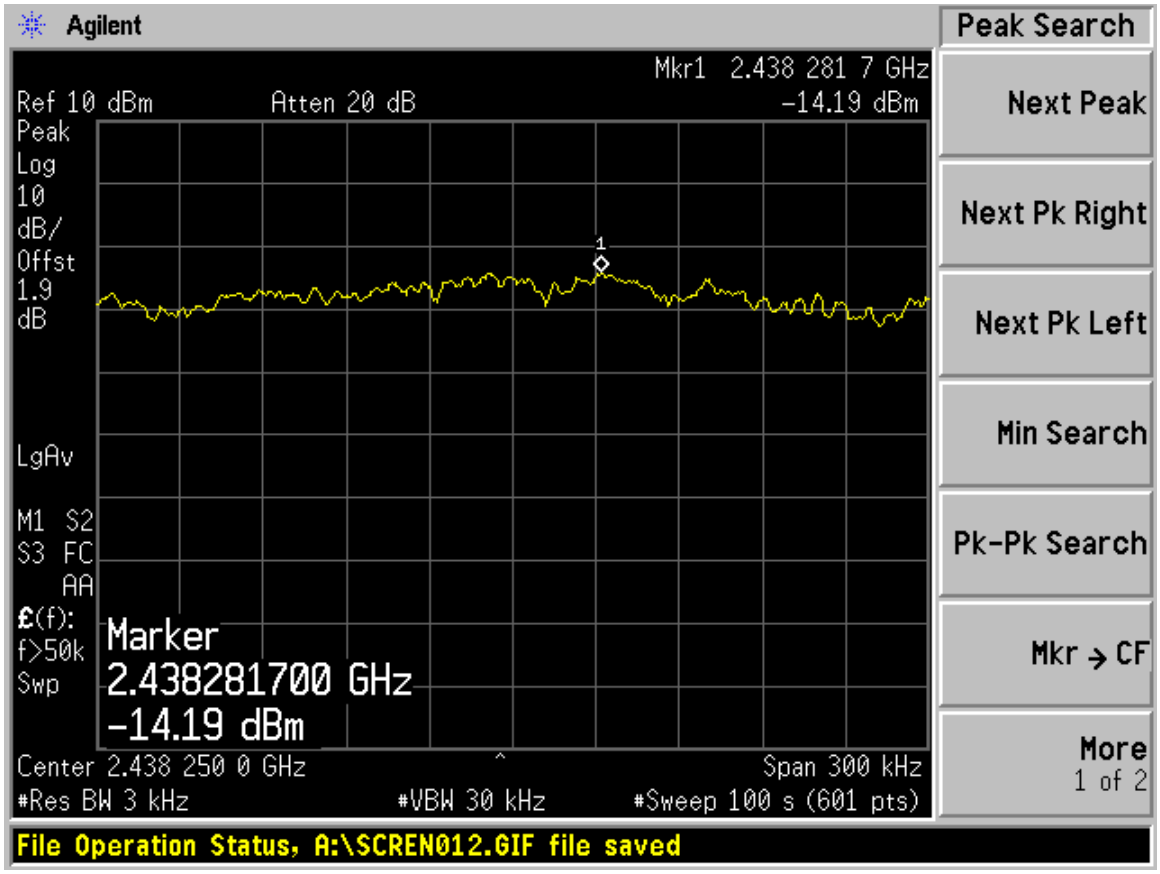

Agilent
Peak Search
Mkr1 2.463 286 7 GHz
Ref 10 dBm
Atten 20 dB
-12.39 dBm
Peak
Log
10
dB/
Offst
1.9
dB
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
LgAv
M1 S2
S3 FC
AA
£(f):
f>50k
Swp
Marker
2.463286700 GHz
-12.39 dBm
Center 2.463 250 0 GHz
Span 300 kHz
#Res BW 3 kHz
#VBW 30 kHz
#Sweep 100 s (601 pts)
File Operation Status, A:\SCREN008.GIF file saved

8.4.3.802.11n HT20

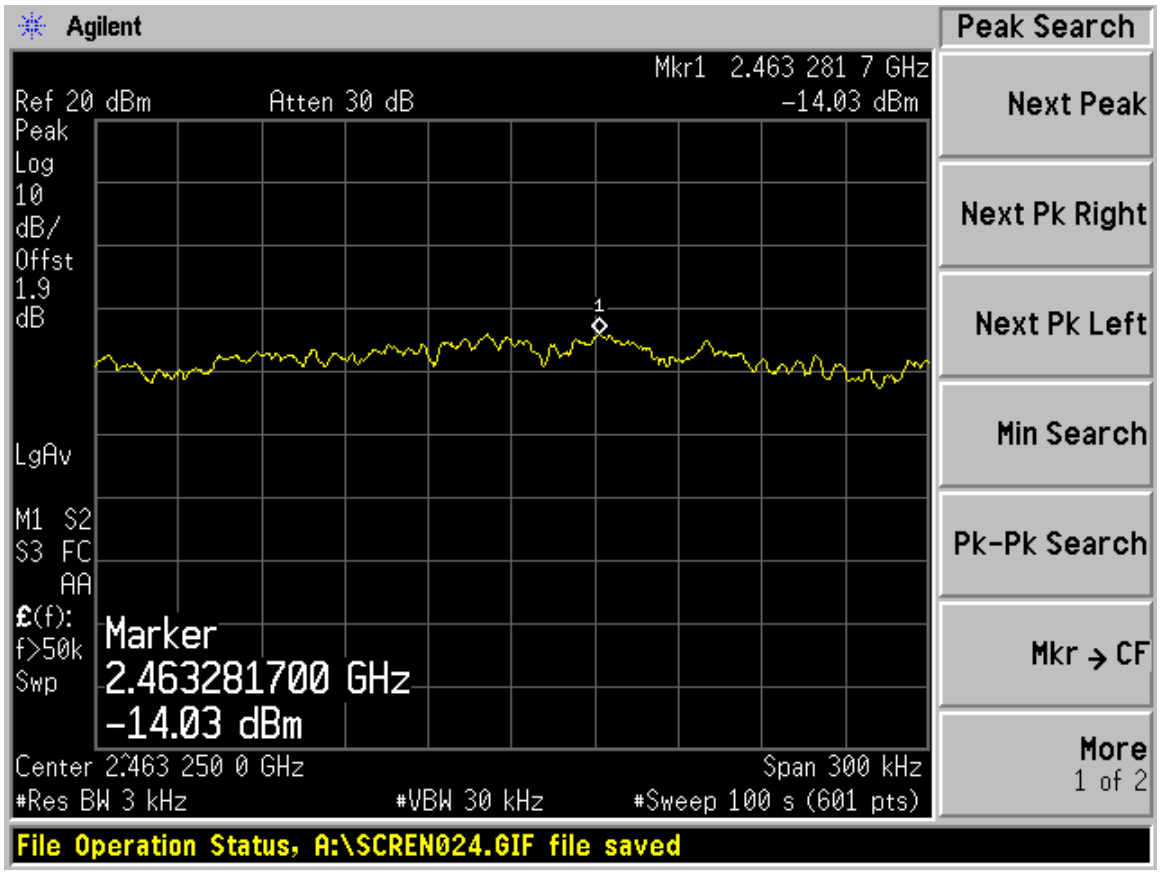
CH1



CH6

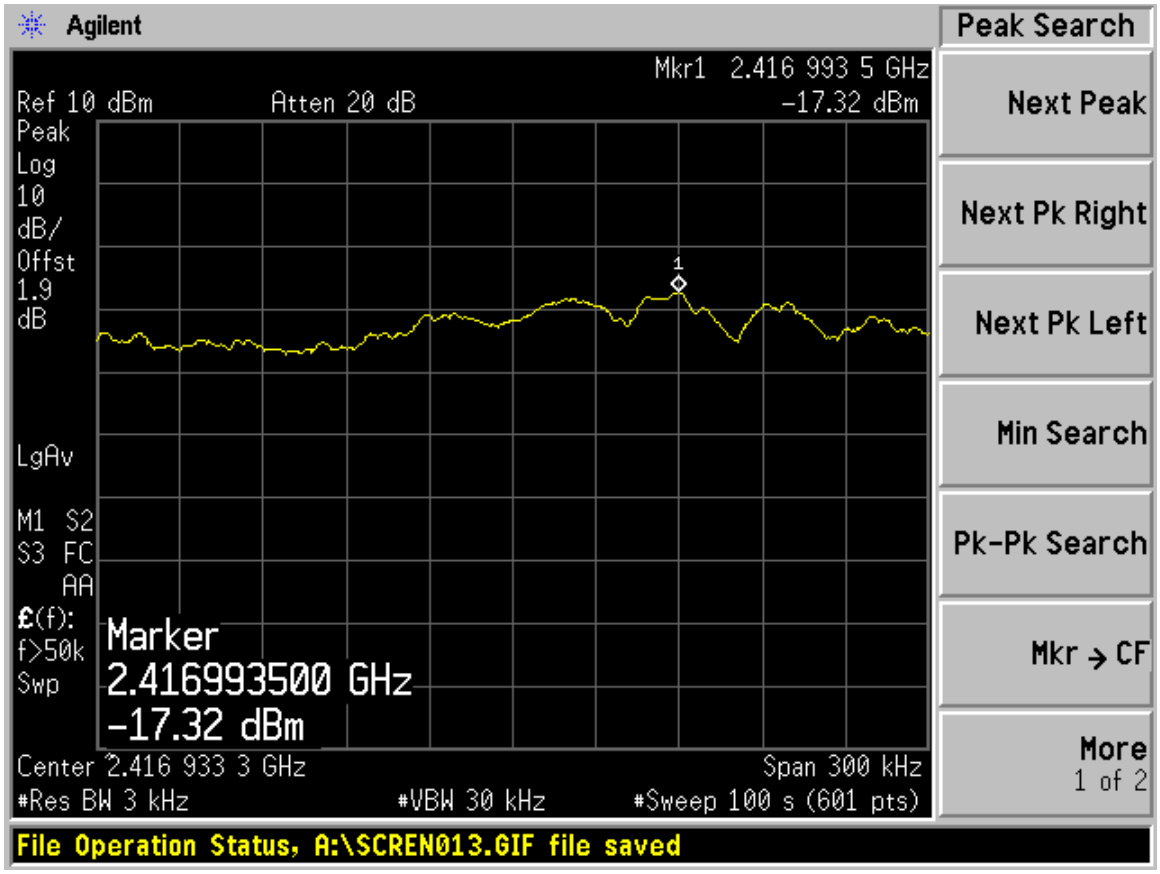


CH11

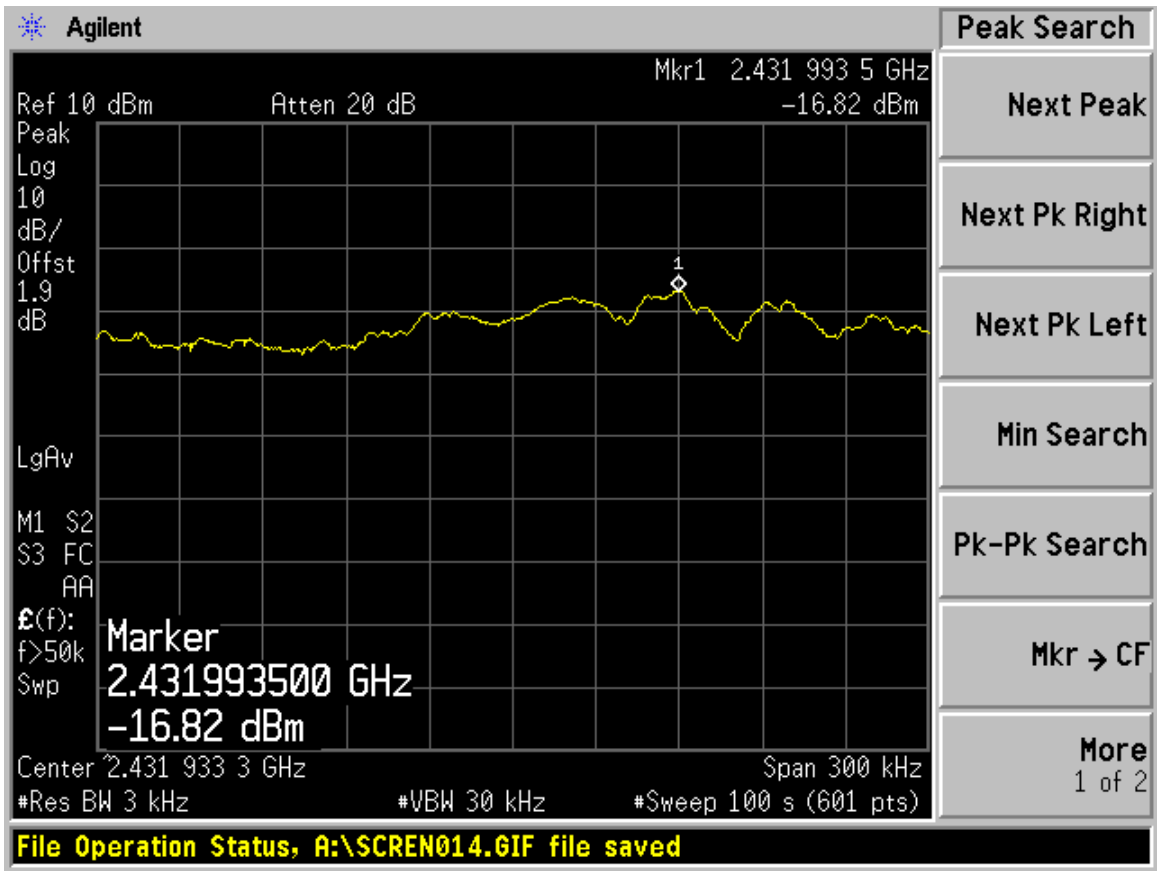


8.4.4.802.11n HT40

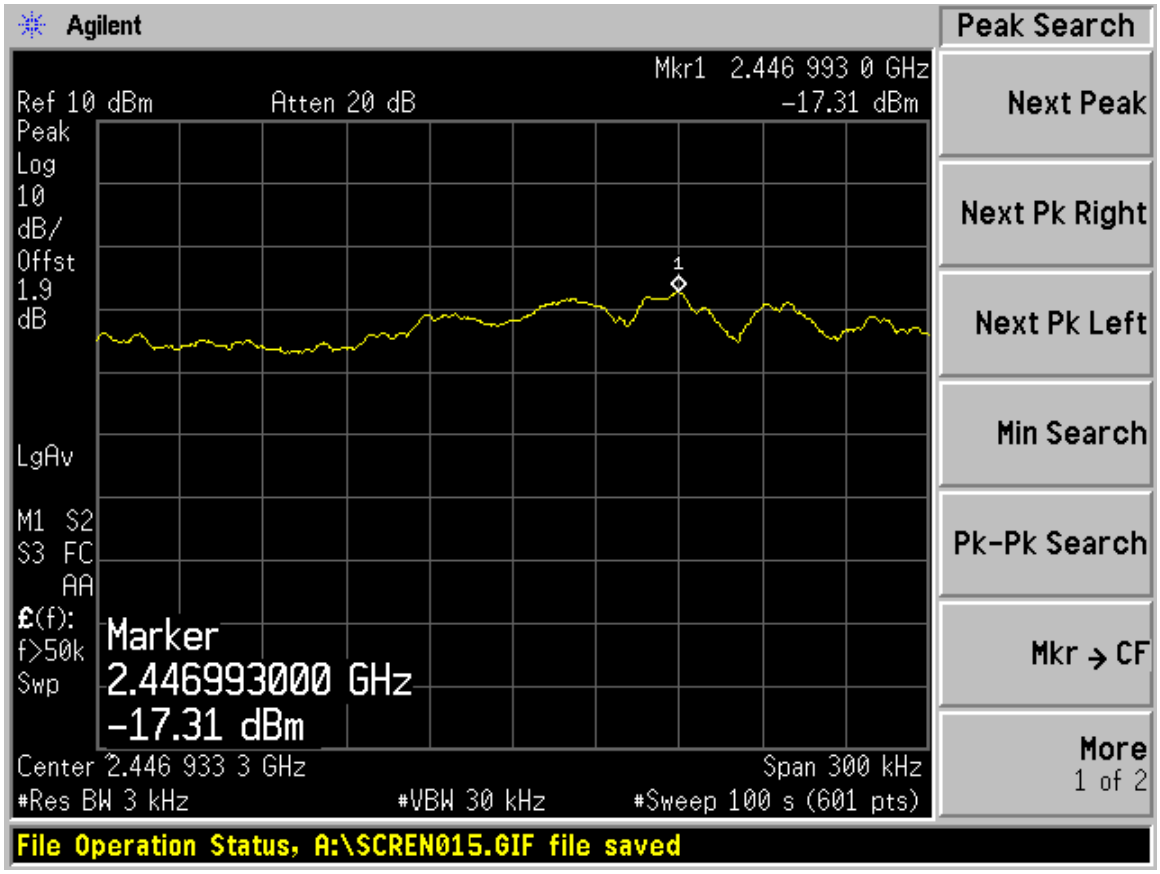
CH3



CH6


Agilent
Peak Search
Mkr1 2.431 993 5 GHz
Ref 10 dBm
Atten 20 dB
-16.82 dBm
Peak
Log
10
dB/
Offst
1.9
dB
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
LgAv
M1 S2
S3 FC
AA
£(f):
f>50k
Swp
Marker
2.431993500 GHz
-16.82 dBm
Center 2.431 933 3 GHz
Span 300 kHz
#Res BW 3 kHz
#VBW 30 kHz
#Sweep 100 s (601 pts)
File Operation Status, A:\SCREN014.GIF file saved

CH9


Agilent
Peak Search
Mkr1 2.446 993 0 GHz
Ref 10 dBm
Atten 20 dB
-17.31 dBm
Peak
Log
10
dB/
Offst
1.9
dB
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
LgAv
M1 S2
S3 FC
AA
£(f):
f>50k
Swp
Marker
2.446993000 GHz
-17.31 dBm
Center 2.446 933 3 GHz
Span 300 kHz
#Res BW 3 kHz
#VBW 30 kHz
#Sweep 100 s (601 pts)
File Operation Status, A:\SCREN015.GIF file saved

9. EMISSION LIMITATIONS MEASUREMENT

9.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2011-01-08	2012-01-07

9.2. Block Diagram of Test Setup

The same as section 5.2.

9.3. Specification Limits (§15.247(d))

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

9.4. Test Results

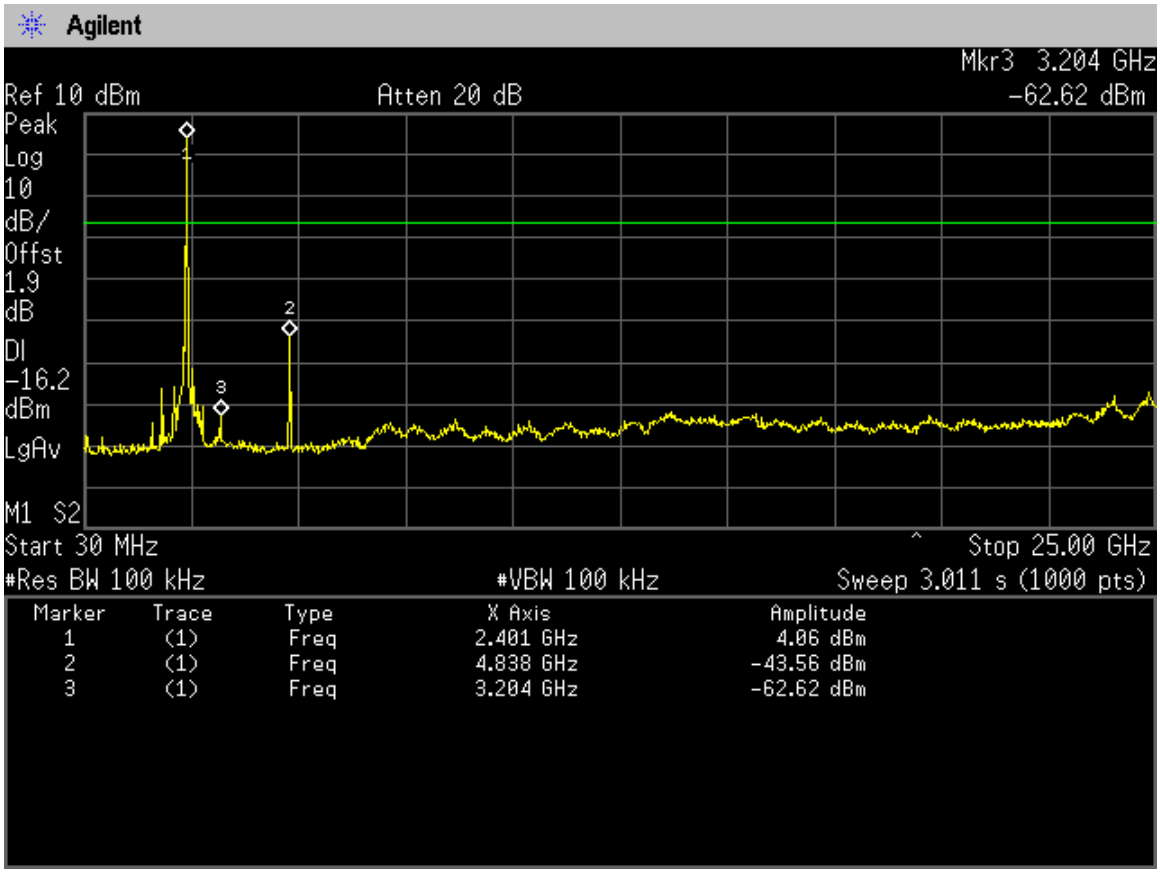
PASSED. All the test results are attached in next pages.

Test Date: May 17, 2011 Temperature: 16.9℃ Humidity: 52 %

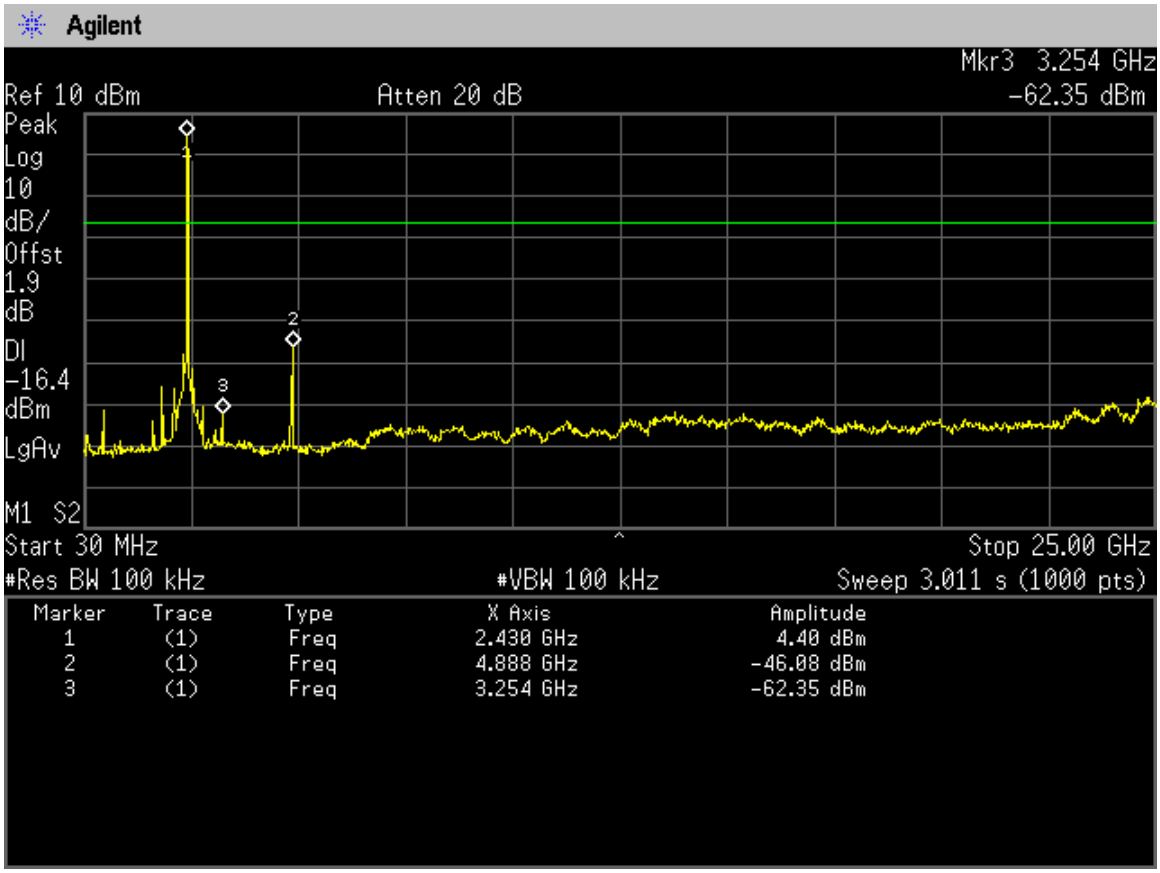
Item	Channel	Frequency(GHz)	**Amplitude(dBm)**
802.11b	1	2.401	**4.06**
		4.838	**-43.56**
		3.204	**-62.62**
	6	2.430	**4.40**
		4.888	**-46.08**
		3.254	**-62.35**
	11	2.455	**5.05**
		4.938	**-48.85**
		3.279	**-61.93**
802.11g	1	2.405	**-2.55**
		4.838	**-58.82**
		3.204	**-63.14**
	6	2.430	**-2.08**
		4.863	**-63.38**
		3.254	**-61.83**
	11	2.455	**-2.01**
		4.938	**-62.47**
		3.279	**-60.36**
802.11n HT20	1	2.405	**0.56**
		4.838	**-55.14**
		3.204	**-62.46**
	6	2.430	**1.01**
		4.888	**-62.49**
		3.254	**-61.80**
	11	2.455	**0.41**
		4.938	**-64.05**
		3.279	**-60.91**
802.11n HT40	3	2.430	**-2.45**
		4.863	**-57.44**
		3.229	**-61.40**
	6	2.430	**-1.37**
		4.888	**-57.59**
		3.254	**-61.34**
	9	2.430	**-2.19**
		4.913	**-61.93**
		3.279	**-61.16**

9.4.1.802.11b

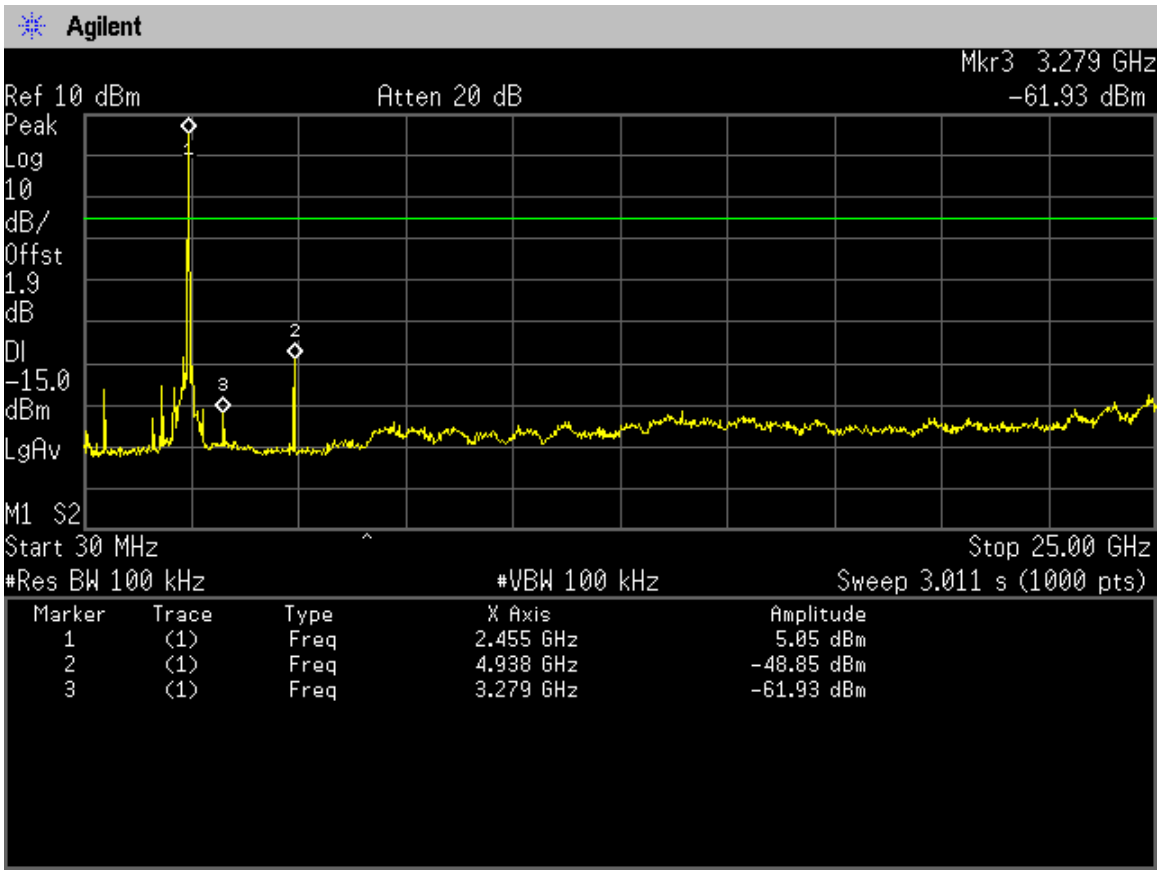
CH1



CH6

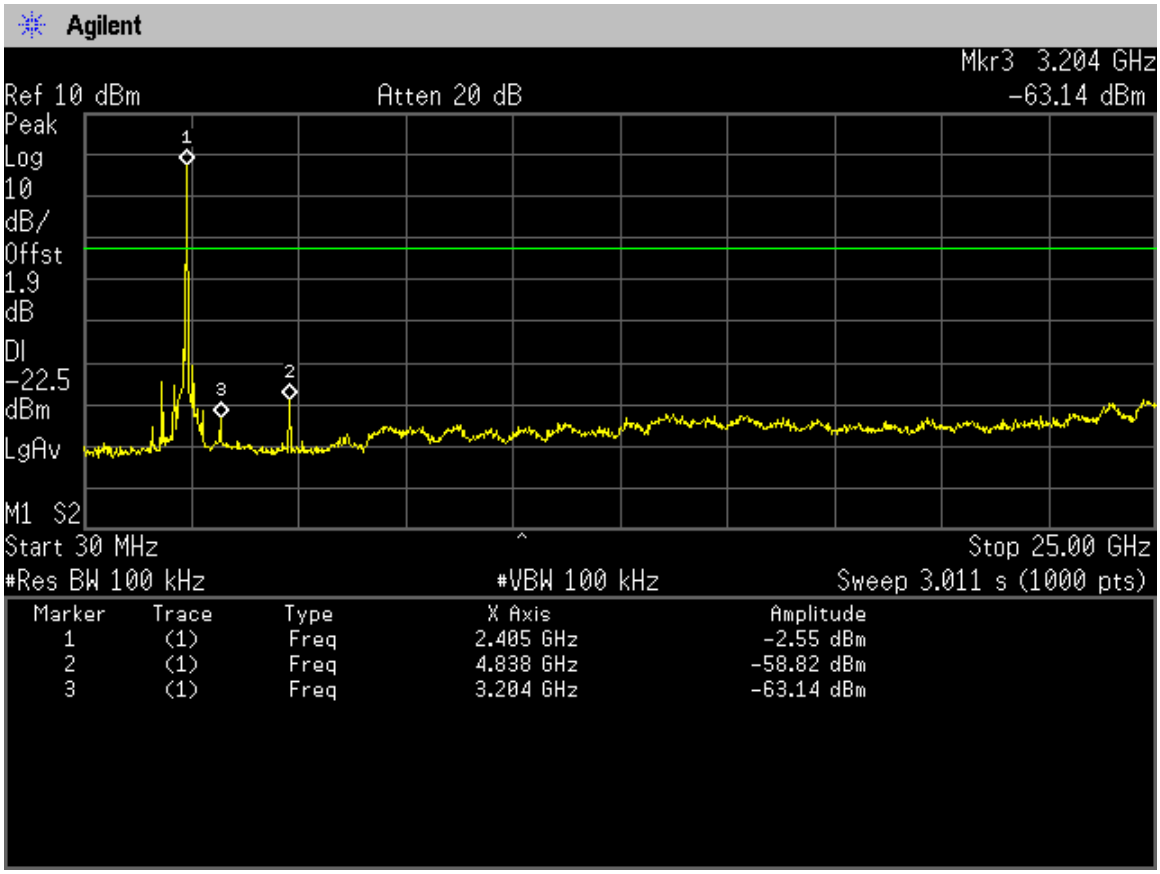


CH11

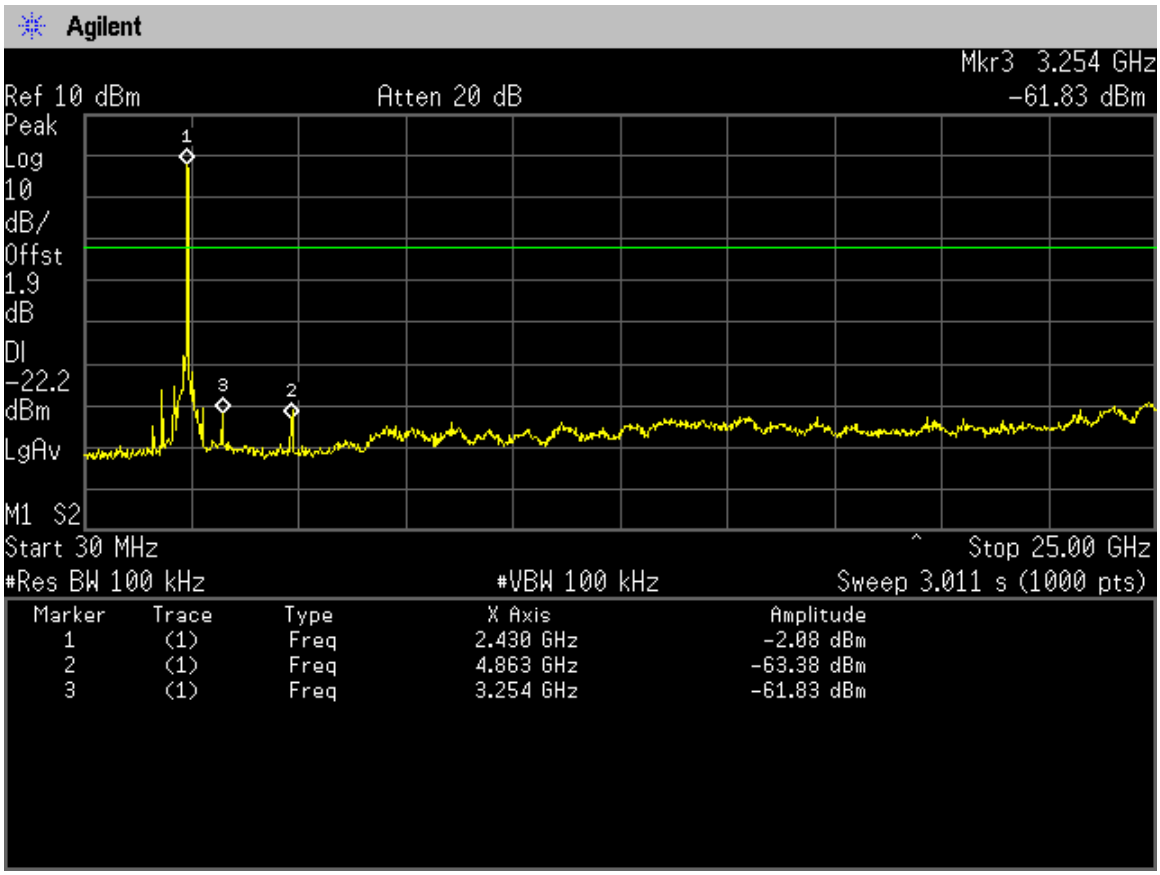


9.4.2.For 802.11g

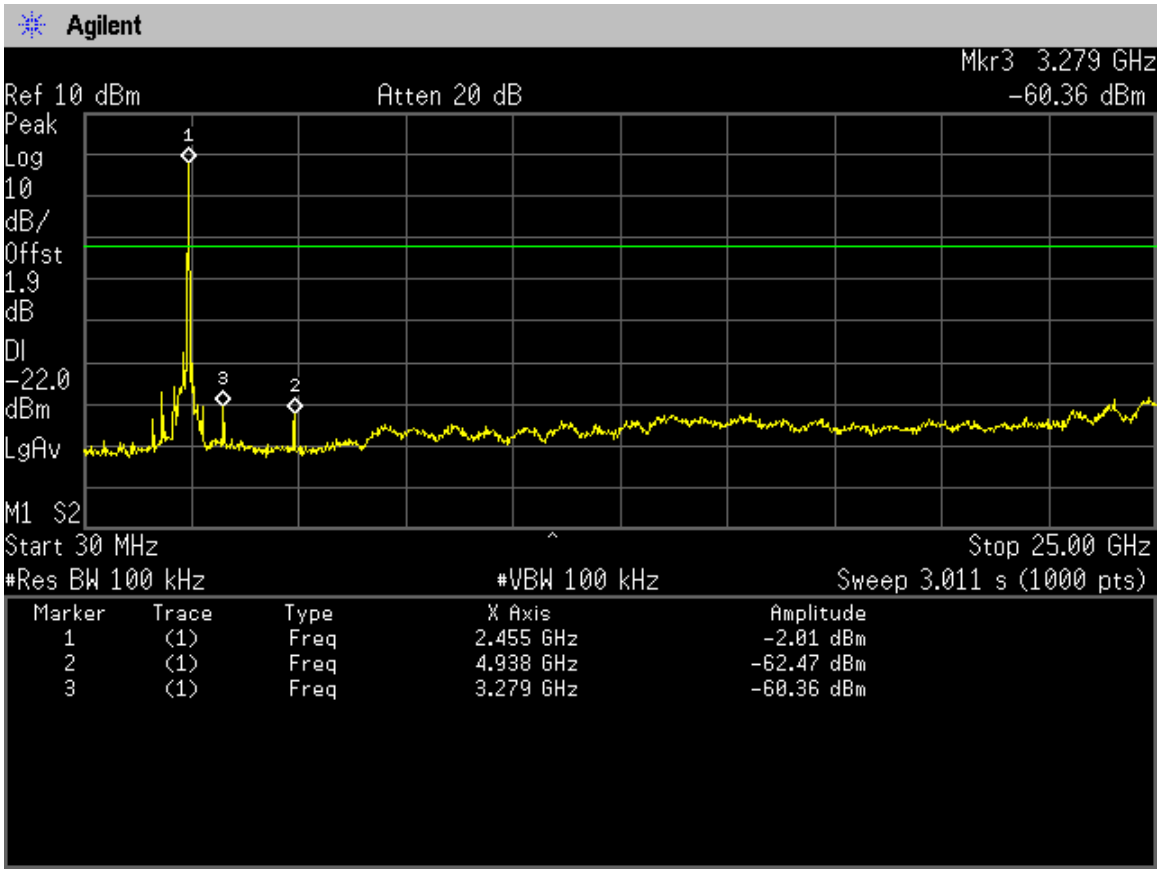
CH1



CH6

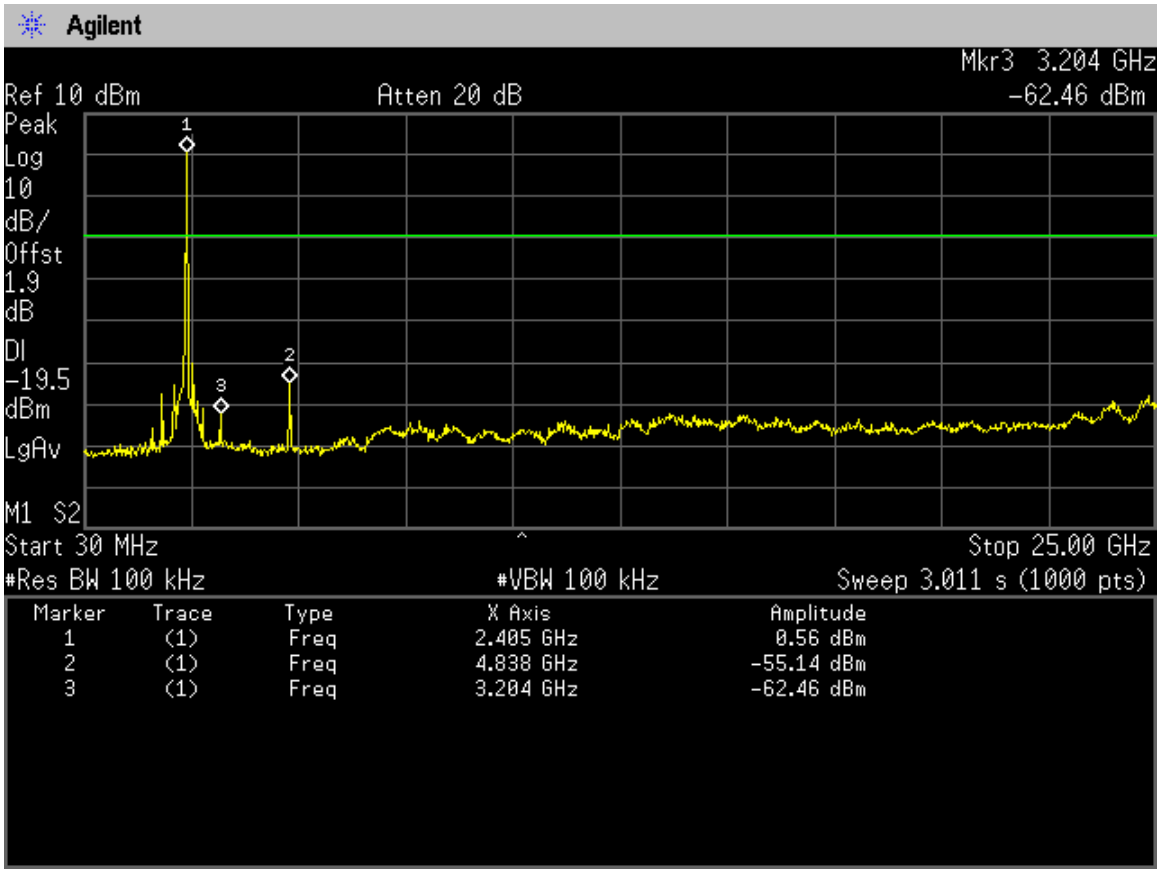

Agilent
Mkr3 3.254 GHz
Ref 10 dBm
Atten 20 dB
-61.83 dBm
Peak
Log
10
dB/
Offst
1.9
dB
Dl
-22.2
dBm
LgAv
M1 S2
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (1000 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.430 GHz -2.08 dBm
2 (1) Freq 4.863 GHz -63.38 dBm
3 (1) Freq 3.254 GHz -61.83 dBm

CH11

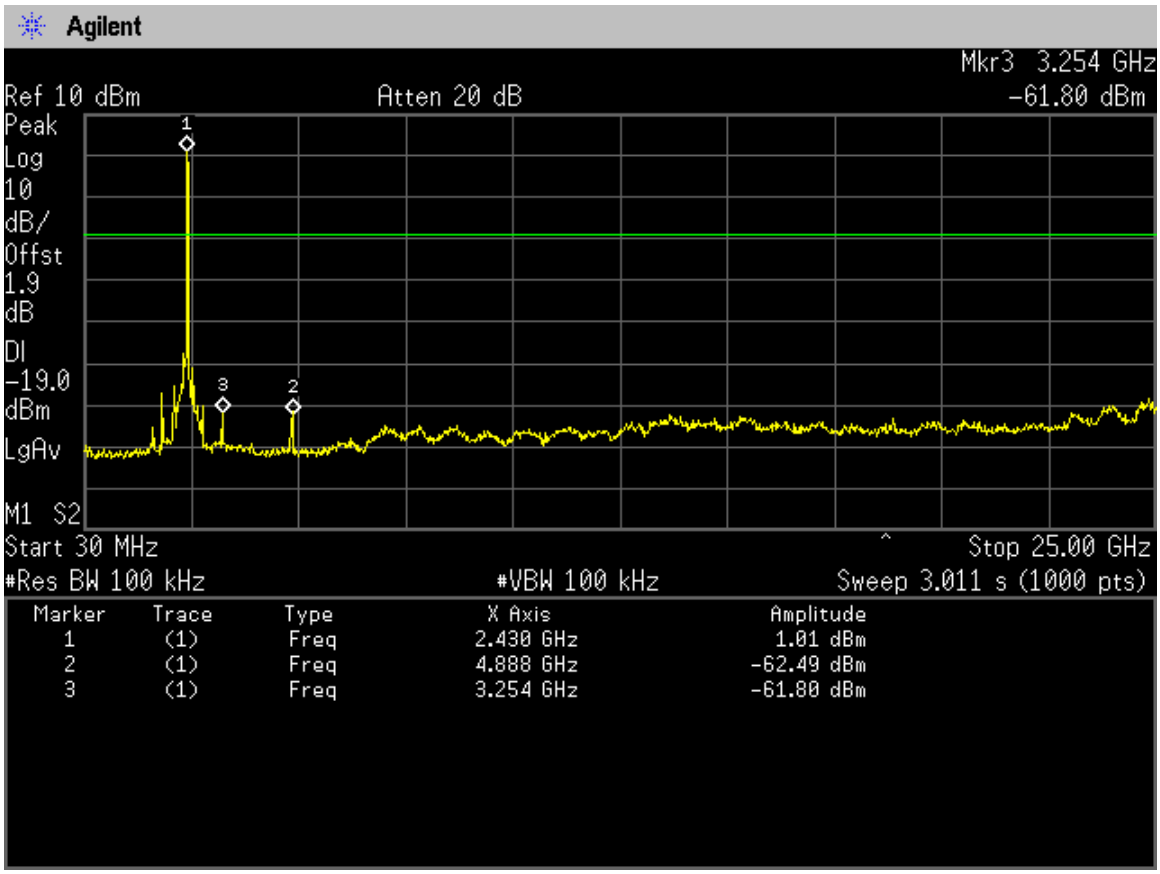

Agilent
Mkr3 3.279 GHz
Ref 10 dBm
Atten 20 dB
-60.36 dBm
Peak
Log
10
dB/
Offst
1.9
dB
Dl
-22.0
dBm
LgAv
M1 S2
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (1000 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.455 GHz -2.01 dBm
2 (1) Freq 4.938 GHz -62.47 dBm
3 (1) Freq 3.279 GHz -60.36 dBm

9.4.3.For 802.11n HT20

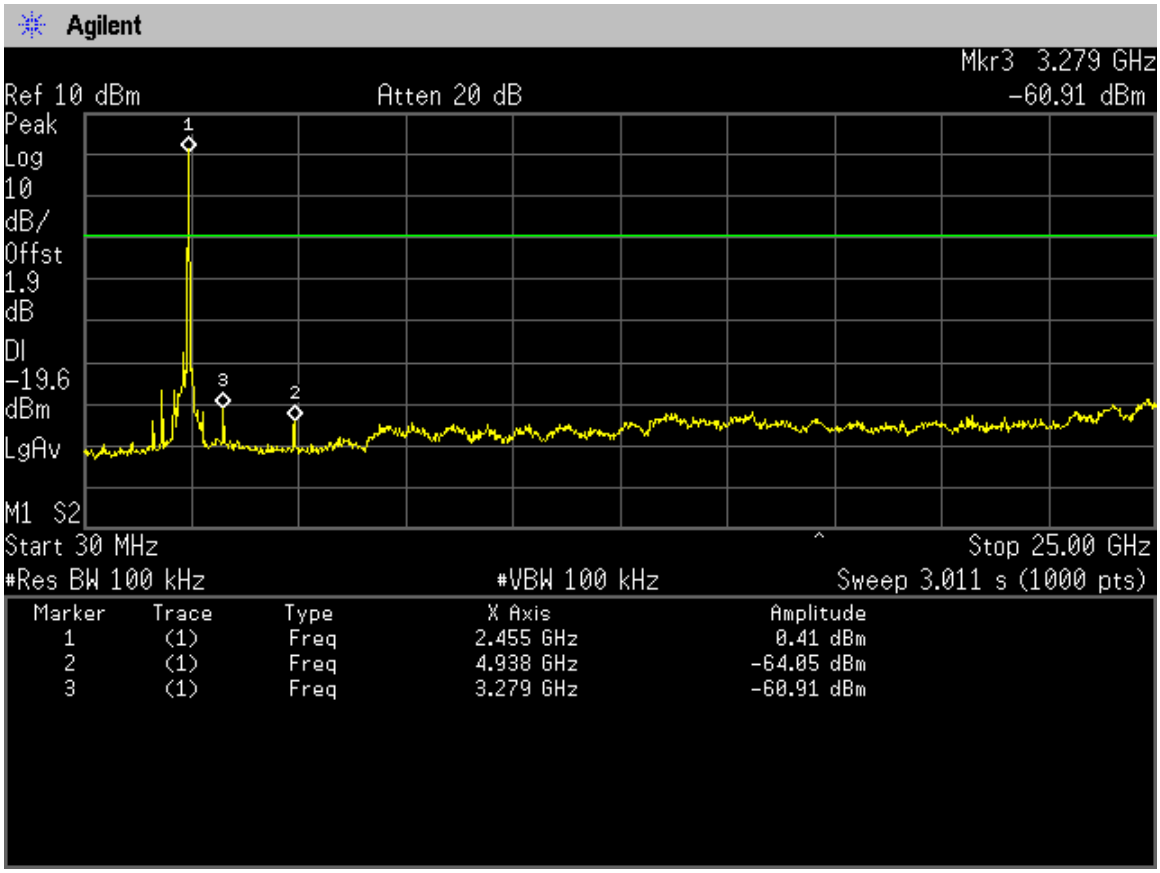
CH1



CH6

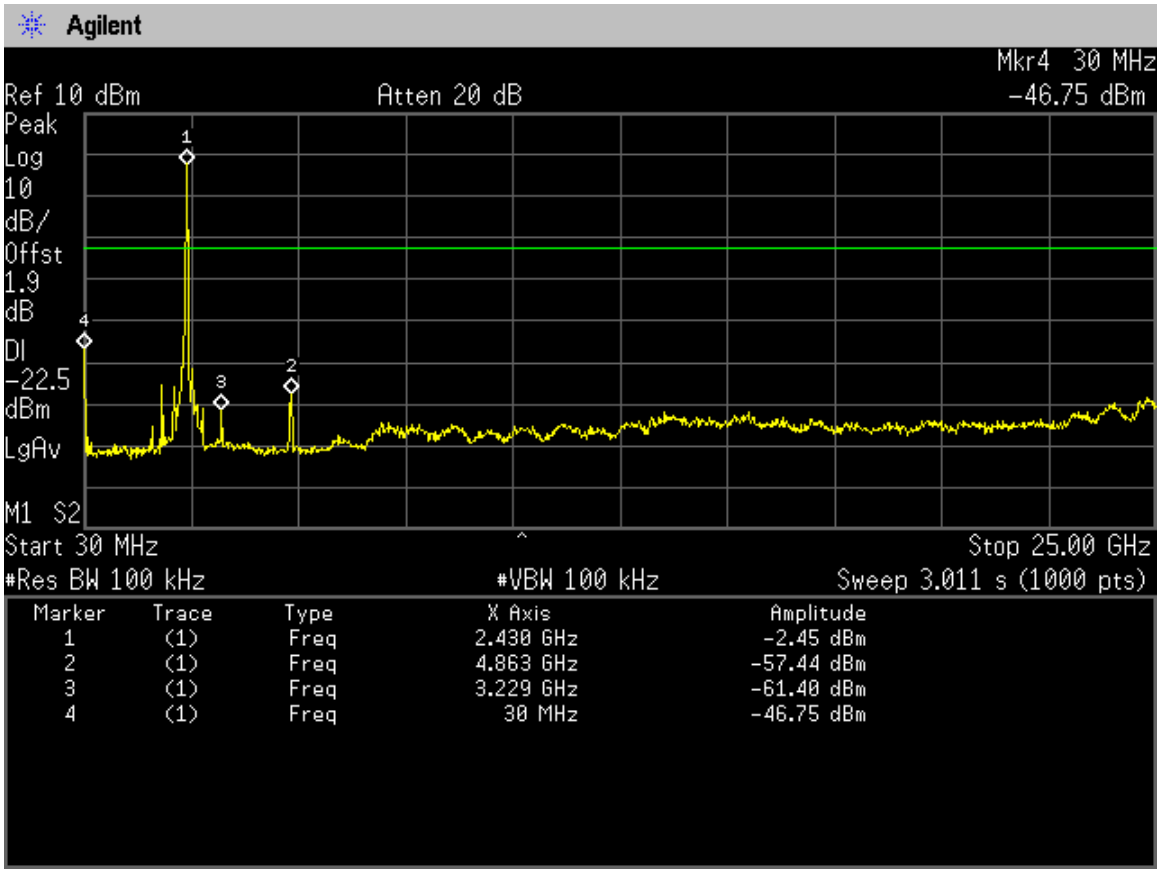


CH11

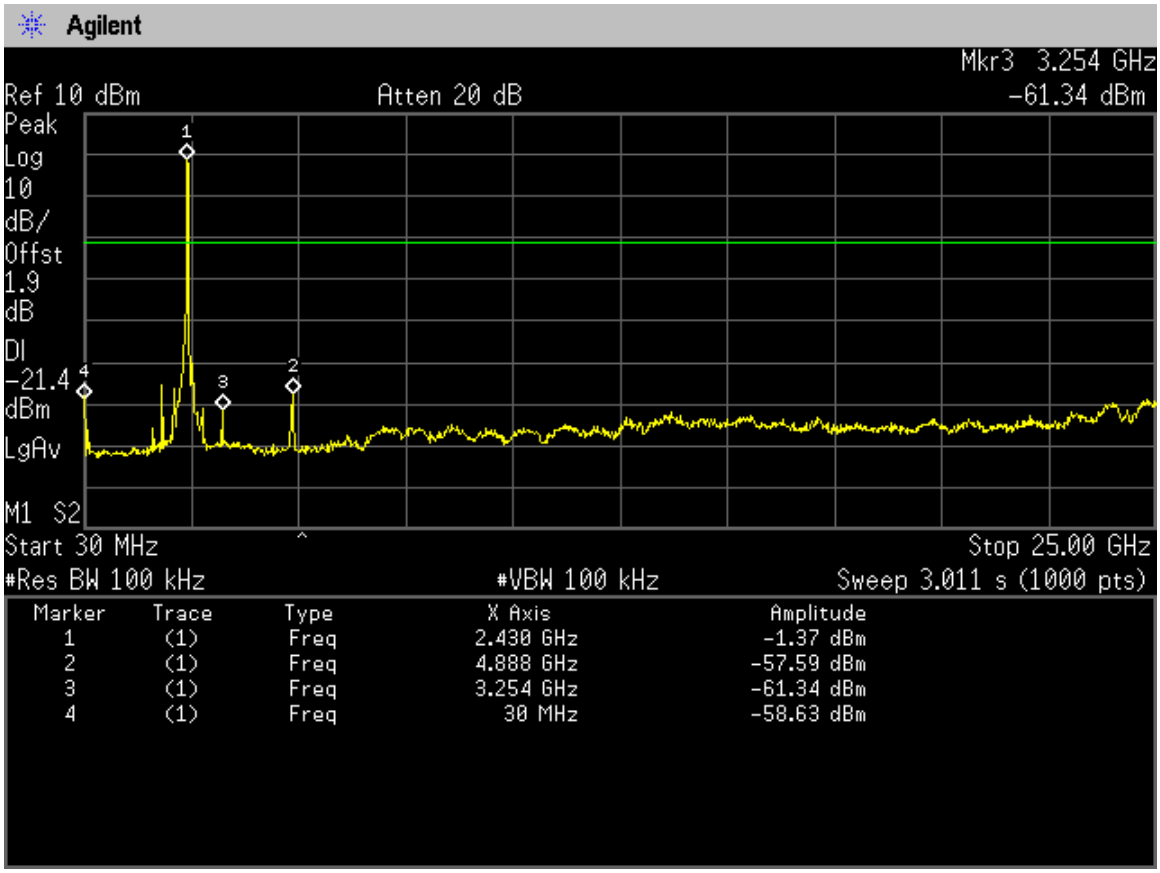


9.4.4.For 802.11n HT40

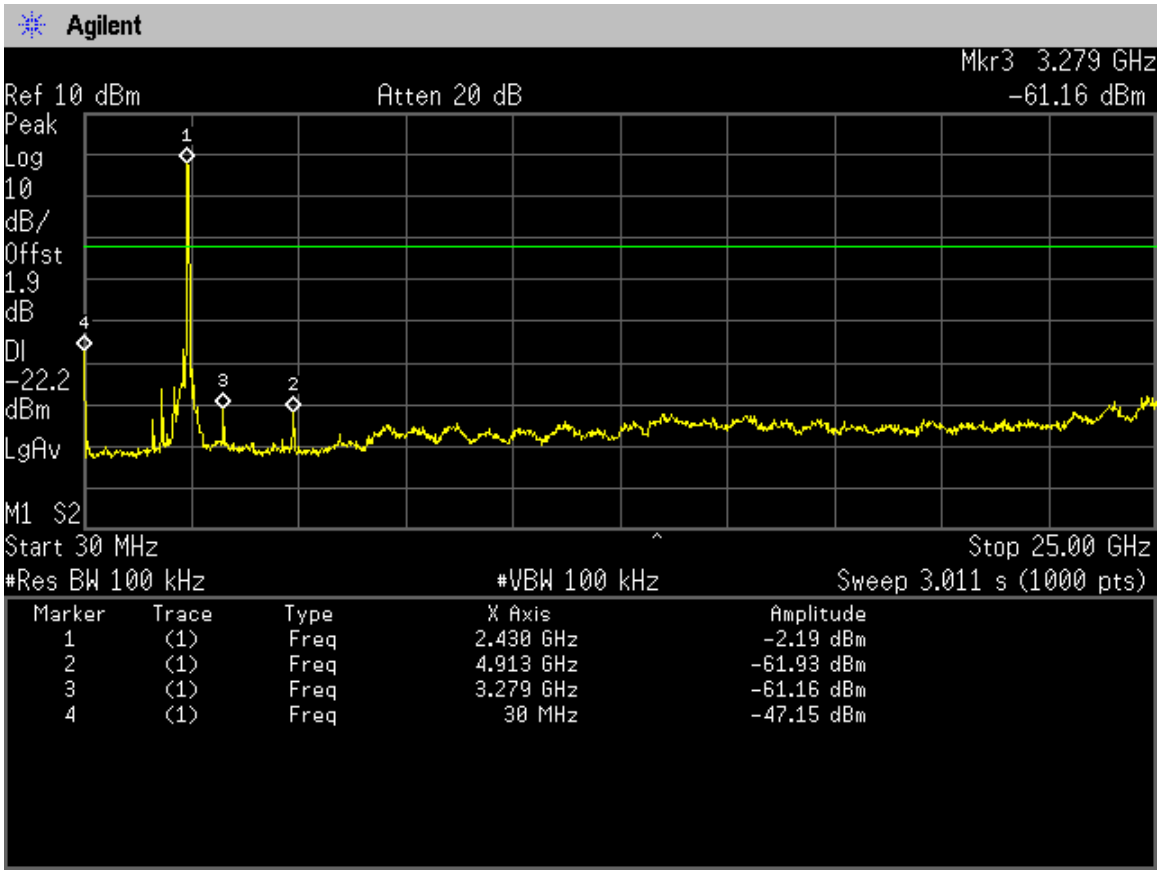
CH3



CH6


Agilent
Mkr3 3.254 GHz
Ref 10 dBm
Atten 20 dB
-61.34 dBm
Peak
Log
10
dB/
Offst
1.9
dB
Dl
-21.4
dBm
LgAv
M1 S2
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (1000 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.430 GHz -1.37 dBm
2 (1) Freq 4.888 GHz -57.59 dBm
3 (1) Freq 3.254 GHz -61.34 dBm
4 (1) Freq 30 MHz -58.63 dBm

CH9


Agilent
Mkr3 3.279 GHz
Ref 10 dBm
Atten 20 dB
-61.16 dBm
Peak
Log
10
dB/
Offst
1.9
dB
Dl
-22.2
dBm
LgAv
M1 S2
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (1000 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.430 GHz -2.19 dBm
2 (1) Freq 4.913 GHz -61.93 dBm
3 (1) Freq 3.279 GHz -61.16 dBm
4 (1) Freq 30 MHz -47.15 dBm

10. DEVIATION TO TEST SPECIFICATIONS

【NONE】