

## Appendix F: Radiated Spurious Emission & Spurious in Restricted Band

### Part 1: Testing Range of “9kHz to 30MHz”

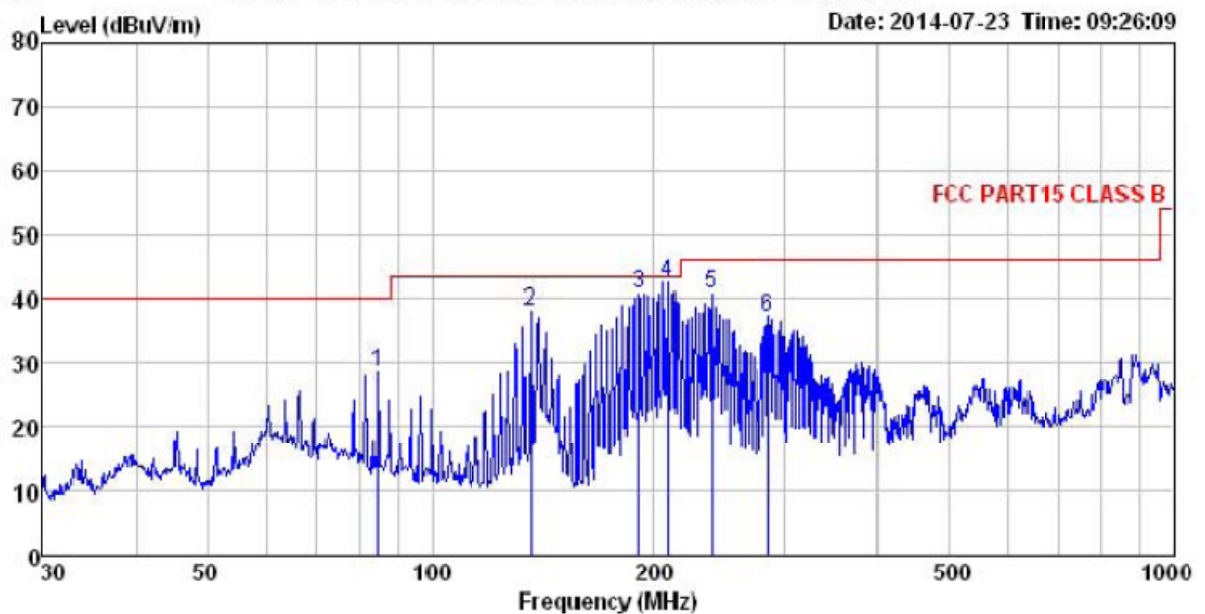
Note 1: The test for testing range of “9kHz to 30MHz” is measured with a loop antenna. This range will not be presented for each Test Mode and each Channel.

Note 2: The emissions in this range are mainly from background noise, so this report will not show the plot unless insistent emission (within 20dB down below the limit) is detected.

### Part 2: Testing Range of “30 MHz to 1 GHz”

Note 1: The test results and plot for testing range of “30MHz to 1GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

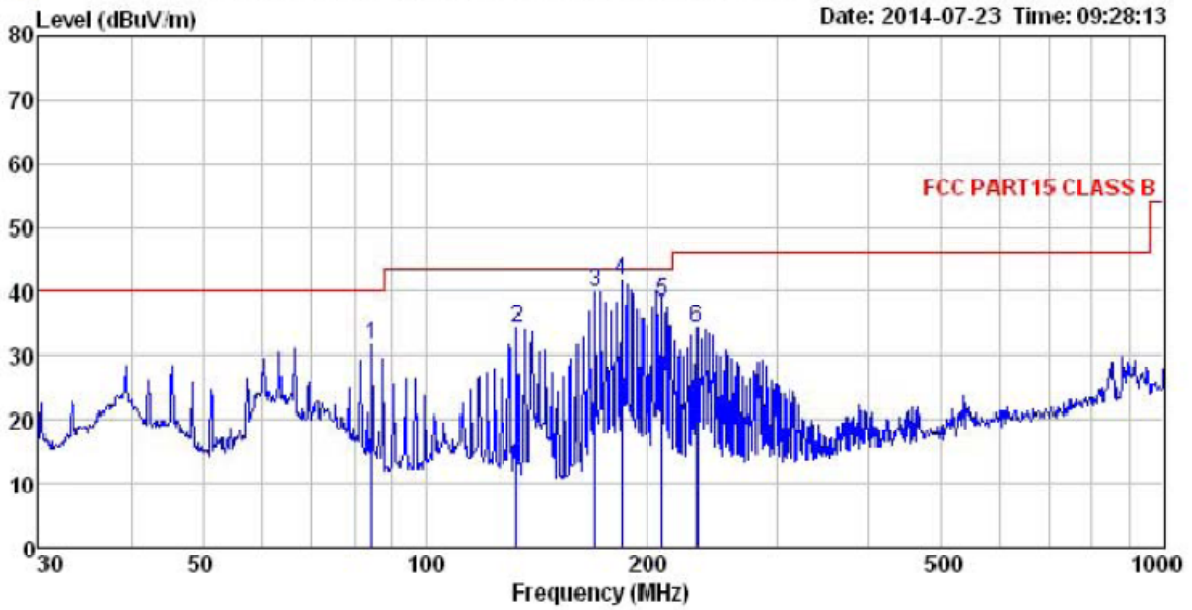
#### 30MHz~1GHz(Horizontal)



MEASUREMENT RESULT: QP Detector

	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	84.702	47.08	10.16	0.88	29.60	28.52	40.00	-11.48	
2	135.982	57.75	8.45	1.23	29.29	38.14	43.50	-5.36	
3	190.405	57.59	10.56	1.37	28.90	40.62	43.50	-2.88	
4	208.580	59.05	10.84	1.42	28.78	42.53	43.50	-0.97	
5	239.147	55.66	12.04	1.57	28.60	40.67	46.00	-5.33	
6	284.977	51.07	12.75	1.73	28.48	37.07	46.00	-8.93	

30MHz~1GHz(Vertical)



MEASUREMENTRESULT:QPDetector

	ReadAntenna	Cable	Pre-amp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	84.702	50.20	10.16	0.88	29.60	31.64	40.00	-8.36
2	133.151	53.81	8.67	1.21	29.31	34.38	43.50	-9.12
3	169.599	58.60	8.95	1.35	29.05	39.85	43.50	-3.65
4	184.490	59.25	10.08	1.36	28.94	41.75	43.50	-1.75
5	209.313	54.79	10.87	1.43	28.77	38.32	43.50	-5.18
6	233.349	49.70	11.78	1.54	28.63	34.39	46.00	-11.61

**Part3: Testing Range of“1GHz to 25 GHz”**

Note1:Two

limitsarerequiredinthetestingrangeabove1GHz,thatisPeaklimit(74dB $\mu$ V/m)andAverageLimit(54dB $\mu$ V/m).

Note 2: For other frequencies, if their emissions are not stronger than the background noise, they will not be recorded in this report.

**Above 1GHz**
**802.11b, Low channel**

Frequency (MHz)	Corr.Amp. (dB $\mu$ V/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
1205	34.76	PK	-8.12	74.0	39.24	H
1869	37.55	PK	-6.98	74.0	36.45	H
4824	49.58	PK	0.25	74.0	24.42	H
1205	22.65	Ave.	-8.12	54.0	31.35	V
1869	27.15	Ave.	-6.98	54.0	26.85	V
4824	38.26	Ave.	0.25	54.0	15.74	V

**802.11b, Middle channel**

Frequency (MHz)	Corr.Amp. (dB $\mu$ V/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
1205	35.69	PK	-8.12	74.0	38.31	H
1869	40.22	PK	-6.98	74.0	33.78	H
4874	47.38	PK	0.40	74.0	26.62	H
1205	25.36	Ave.	-8.12	54.0	28.64	V
1869	28.26	Ave.	-6.98	54.0	25.74	V
4874	38.98	Ave.	0.40	54.0	15.02	V

**802.11b, Low channel**

Frequency (MHz)	Corr.Amp. (dB $\mu$ V/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
1205	35.78	PK	-8.12	74.0	38.22	H
1869	39.66	PK	-6.98	74.0	34.34	H
4924	48.22	PK	0.57	74.0	25.78	H
1205	25.17	Ave.	-8.12	54.0	28.83	V
1869	27.69	Ave.	-6.98	54.0	26.31	V
4924	39.36	Ave.	0.57	54.0	14.64	V



### 802.11g, Low channel

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	34.25	PK	-8.12	74.0	39.75	H
1869	38.36	PK	-6.98	74.0	35.64	H
4824	47.23	PK	0.25	74.0	26.77	H
1205	23.66	Ave.	-8.12	54.0	30.34	V
1869	28.15	Ave.	-6.98	54.0	25.85	V
4824	38.69	Ave.	0.25	54.0	15.31	V

### 802.11g, Middle channel

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	37.26	PK	-8.12	74.0	36.74	H
1869	37.22	PK	-6.98	74.0	36.78	H
4874	45.69	PK	0.40	74.0	28.31	H
1205	25.23	Ave.	-8.12	54.0	28.77	V
1869	28.65	Ave.	-6.98	54.0	25.35	V
4874	37.15	Ave.	0.40	54.0	16.85	V

### 802.11g, Low channel

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	35.62	PK	-8.12	74.0	38.38	H
1869	38.47	PK	-6.98	74.0	35.53	H
4924	47.25	PK	0.57	74.0	26.75	H
1205	25.36	Ave.	-8.12	54.0	28.64	V
1869	27.89	Ave.	-6.98	54.0	26.11	V
4924	37.65	Ave.	0.57	54.0	16.35	V



### 802.11n-HT20, Low channel

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	38.36	PK	-8.12	74.0	35.64	H
1869	47.56	PK	-6.98	74.0	26.44	H
4824	43.15	PK	0.25	74.0	30.85	H
1205	25.69	Ave.	-8.12	54.0	28.31	V
1869	26.45	Ave.	-6.98	54.0	27.55	V
4824	35.86	Ave.	0.25	54.0	18.14	V

### 802.11n-HT20, Middle channel

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	37.29	PK	-8.12	74.0	36.71	H
1869	35.36	PK	-6.98	74.0	38.64	H
4874	47.15	PK	0.40	74.0	26.85	H
1205	22.45	Ave.	-8.12	54.0	31.55	V
1869	27.66	Ave.	-6.98	54.0	26.34	V
4874	37.23	Ave.	0.40	54.0	16.77	V

### 802.11n-HT20, High channel

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	37.65	PK	-8.12	74.0	36.35	H
1869	34.36	PK	-6.98	74.0	39.64	H
4924	43.10	PK	0.57	74.0	30.90	H
1205	22.54	Ave.	-8.12	54.0	31.46	V
1869	26.78	Ave.	-6.98	54.0	27.22	V
4924	35.12	Ave.	0.57	54.0	18.88	V



### 802.11n-HT40, Low channel

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	36.36	PK	-8.12	74.0	37.64	H
1869	38.14	PK	-6.98	74.0	35.86	H
4844	42.25	PK	0.19	74.0	31.75	H
1205	23.56	Ave.	-8.12	54.0	30.44	V
1869	26.35	Ave.	-6.98	54.0	27.65	V
4844	34.15	Ave.	0.19	54.0	19.85	V

### 802.11n-HT40, Middle channel

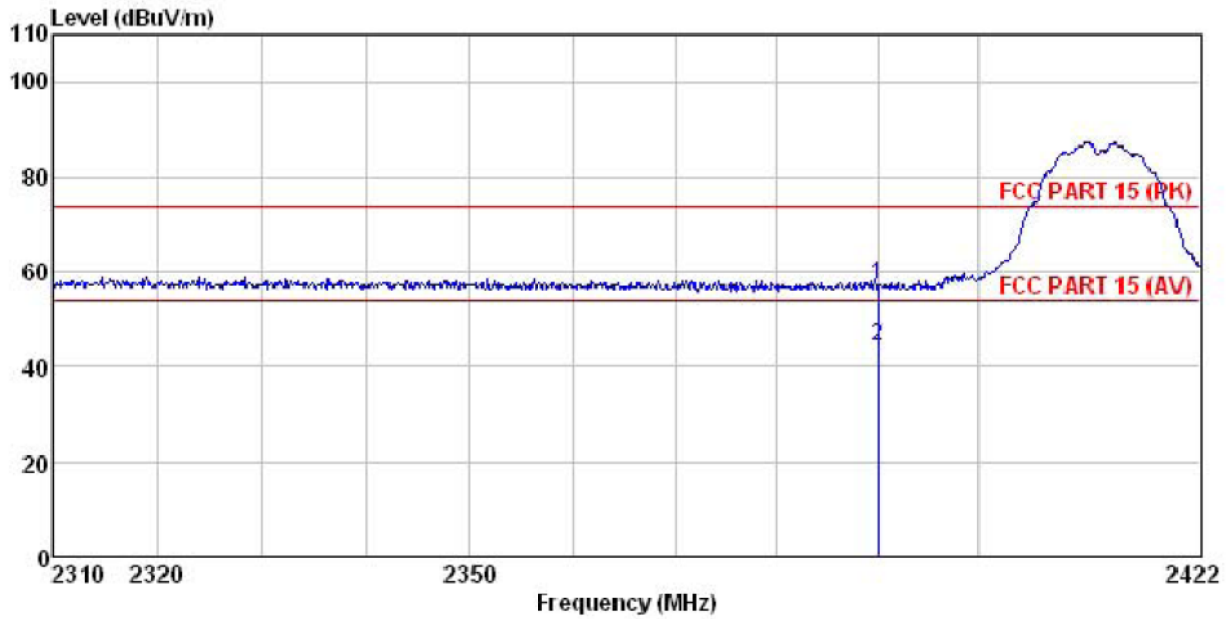
Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	37.26	PK	-8.12	74.0	36.74	H
1869	38.25	PK	-6.98	74.0	35.75	H
4874	42.22	PK	0.93	74.0	31.78	H
1205	24.36	Ave.	-8.12	54.0	29.64	V
1869	27.15	Ave.	-6.98	54.0	26.85	V
4874	32.11	Ave.	0.93	54.0	21.89	V

### 802.11n-HT40, High channel

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	36.35	PK	-8.12	74.0	37.65	H
1869	38.74	PK	-6.98	74.0	35.26	H
4904	43.69	PK	0.74	74.0	30.31	H
1205	25.17	Ave.	-8.12	54.0	28.83	V
1869	28.23	Ave.	-6.98	54.0	25.77	V
4904	30.57	Ave.	0.74	54.0	23.43	V

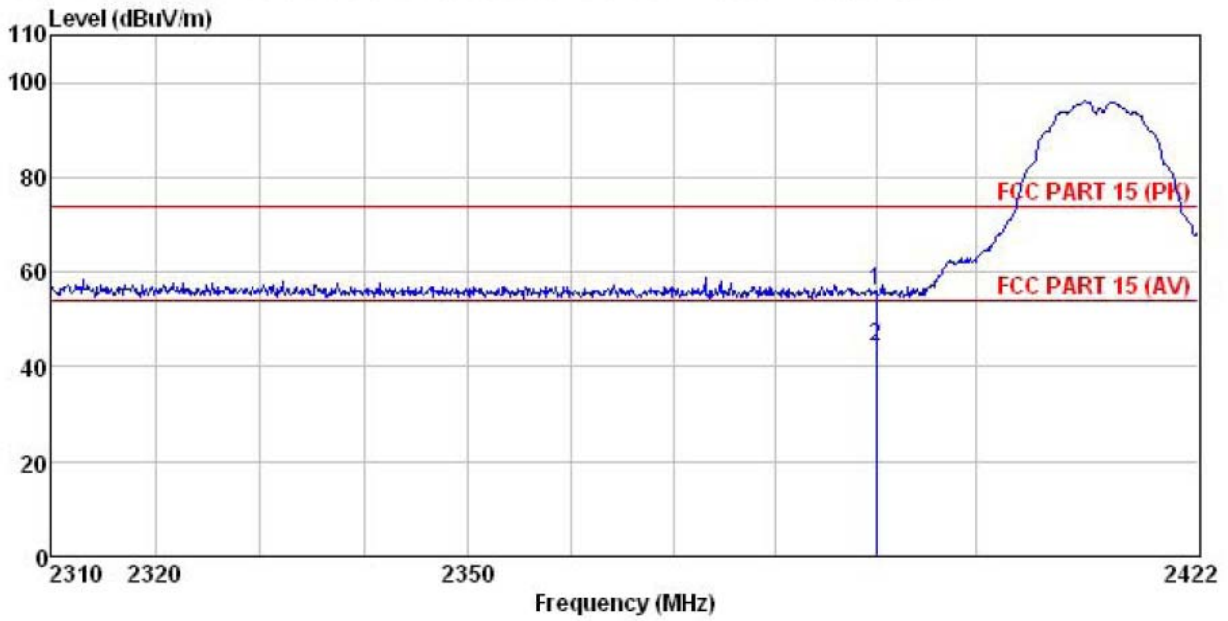
**Part4: Radiated Bandedge spurious semission**

**802.11B Low Channel Horizontal**



	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit	
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	23.83	27.58	5.67	0.00	57.08	74.00	-16.92 Peak
2	2390.000	11.03	27.58	5.67	0.00	44.28	54.00	-9.72 Average

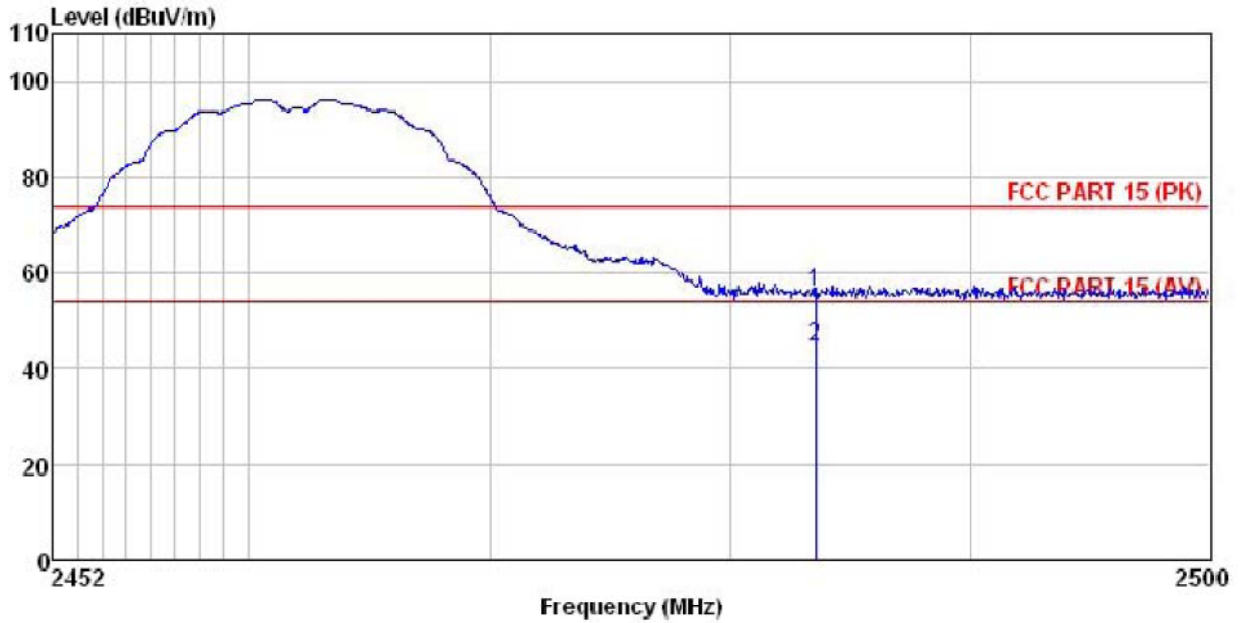
802.11B Low Channel Vertical



	Read Antenna	Cable Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level				
MHz	dBuV	dB/m	dB	dB	dBuV/m				
1	2390.000	22.91	27.58	5.67	0.00	56.16	74.00	-17.84	Peak
2	2390.000	11.18	27.58	5.67	0.00	44.43	54.00	-9.57	Average

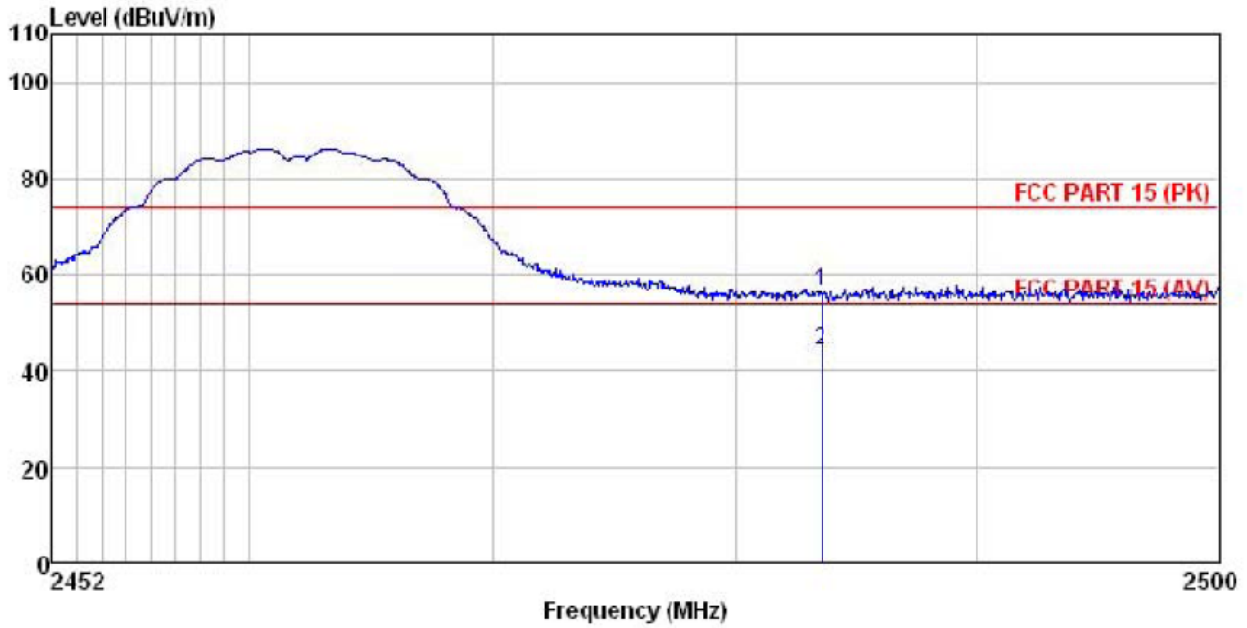


802.11B High Channel Horizontal



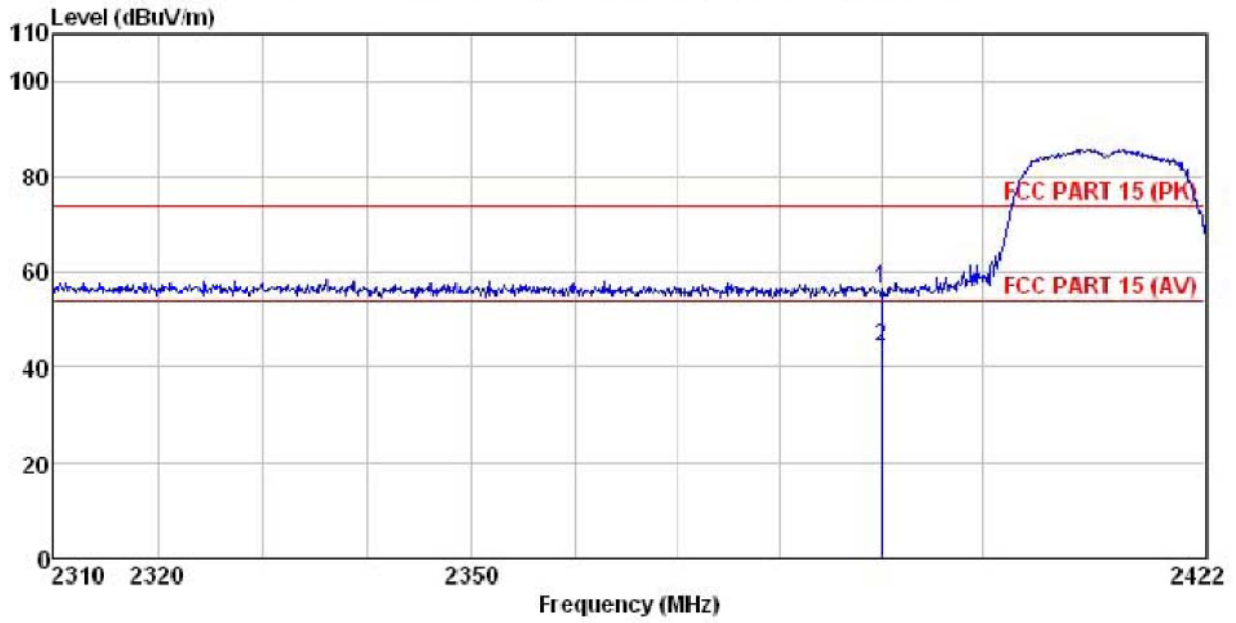
	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	22.90	27.52	5.70	0.00	56.12	74.00	-17.88	Peak
2	2483.500	11.23	27.52	5.70	0.00	44.45	54.00	-9.55	Average

802.11B High Channel Vertical



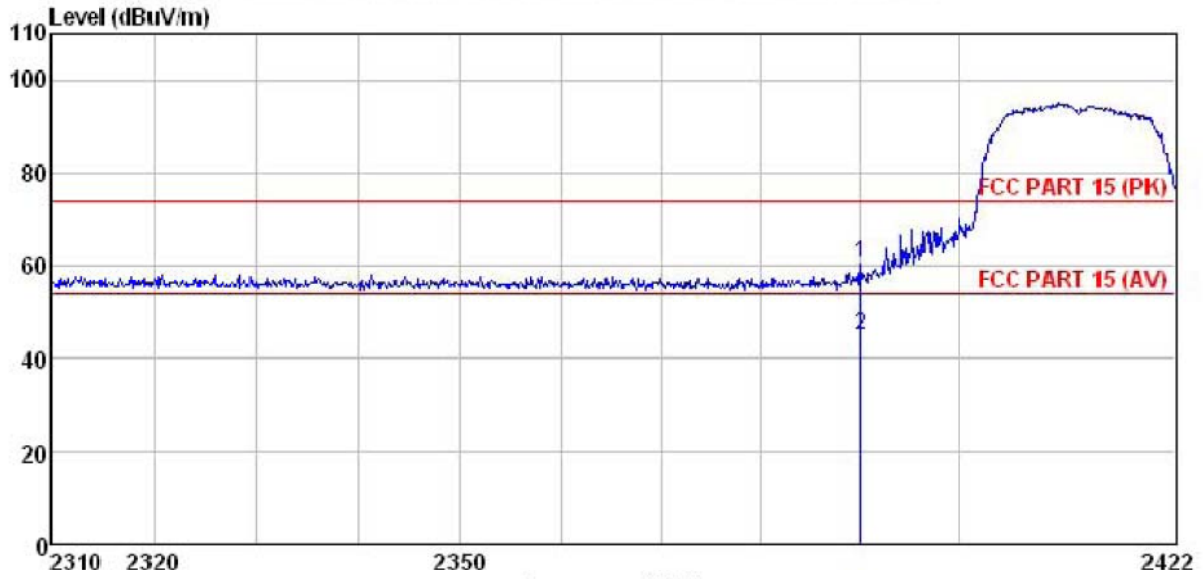
	ReadAntenna	Cable Preamp	Limit	Over					
Freq	Level	Loss	Line	Limit	Remark				
MHz	dBuV	dB/m	dB	dB					
1	2483.500	23.08	27.52	5.70	0.00	56.30	74.00	-17.70	Peak
2	2483.500	10.86	27.52	5.70	0.00	44.08	54.00	-9.92	Average

802.11G Low Channel Horizontal



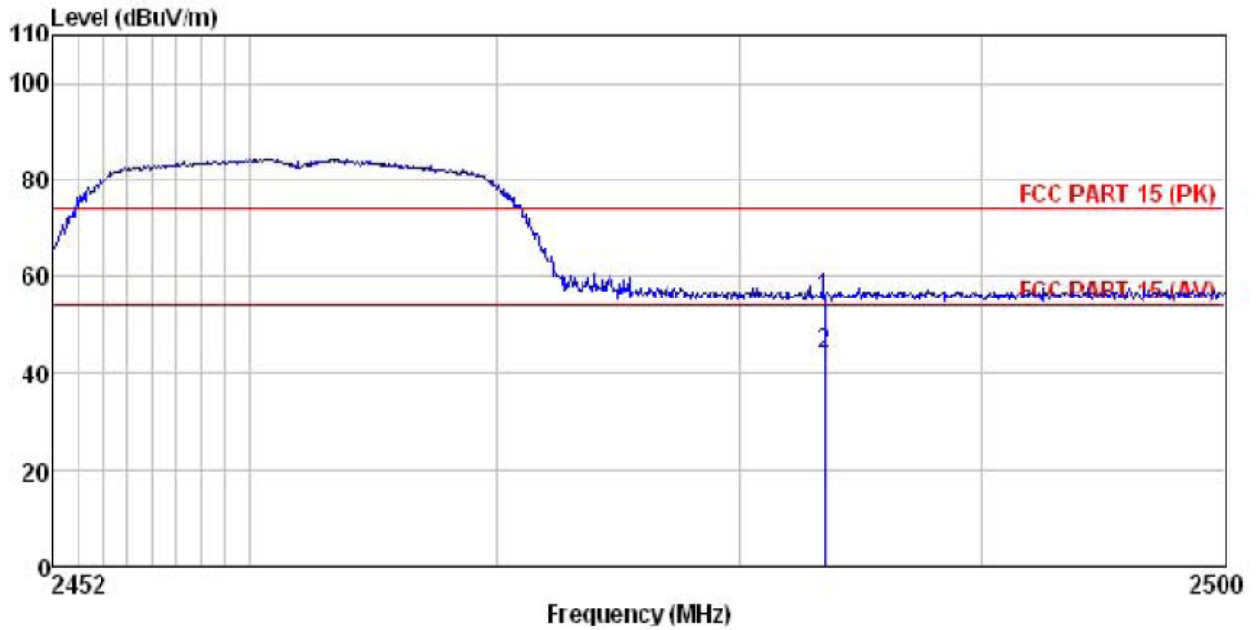
	ReadAntenna	Cable Preamp	Limit	Over					
Freq	Level	Loss	Line	Limit	Remark				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2390.000	22.97	27.58	5.67	0.00	56.22	74.00	-17.78	Peak
2	2390.000	11.11	27.58	5.67	0.00	44.36	54.00	-9.64	Average

802.11G Low Channel Vertical



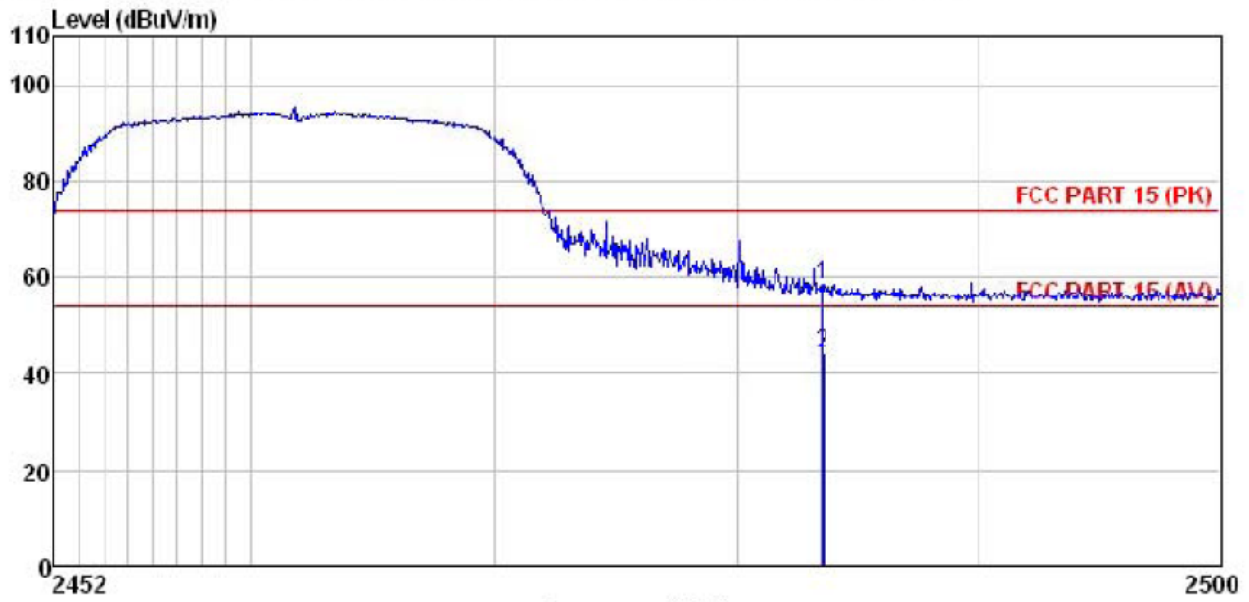
	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.104	27.11	27.58	5.67	0.00	60.36	74.00	-13.64 Peak
2	2390.104	11.72	27.58	5.67	0.00	44.97	54.00	-9.03 Average

**802.11G High Channel Horizontal**



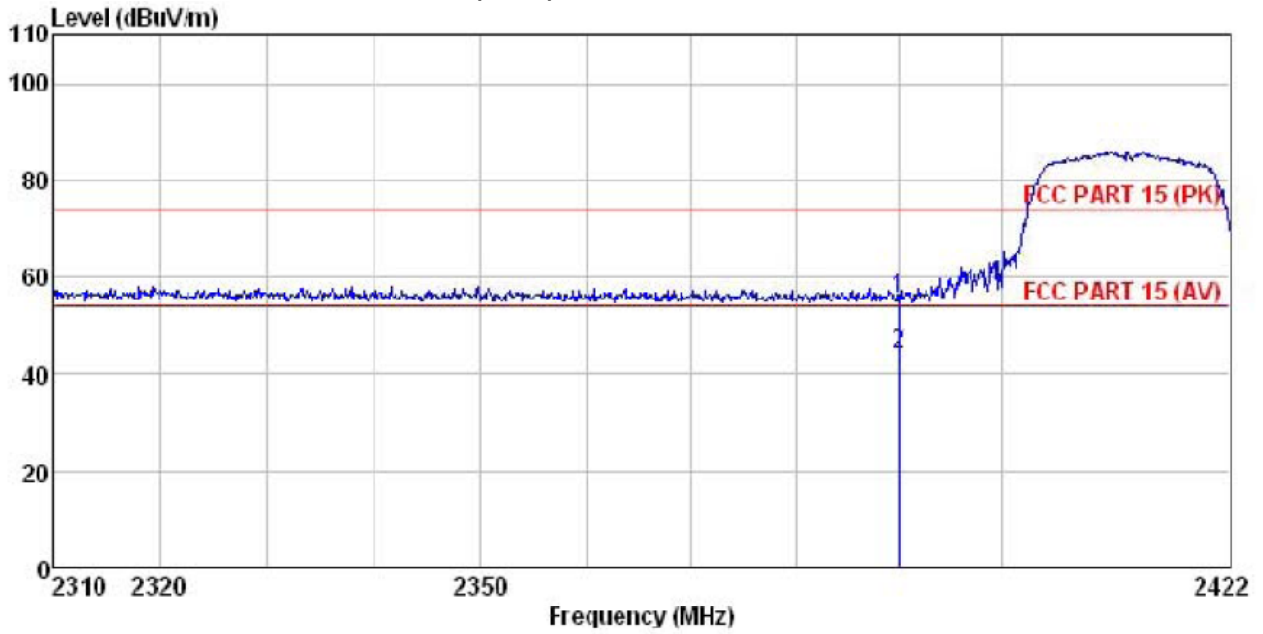
	ReadAntenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	22.37	27.52	5.70	0.00	55.59	74.00	-18.41 Peak
2	2483.500	10.84	27.52	5.70	0.00	44.06	54.00	-9.94 Average

802.11G High Channel Vertical



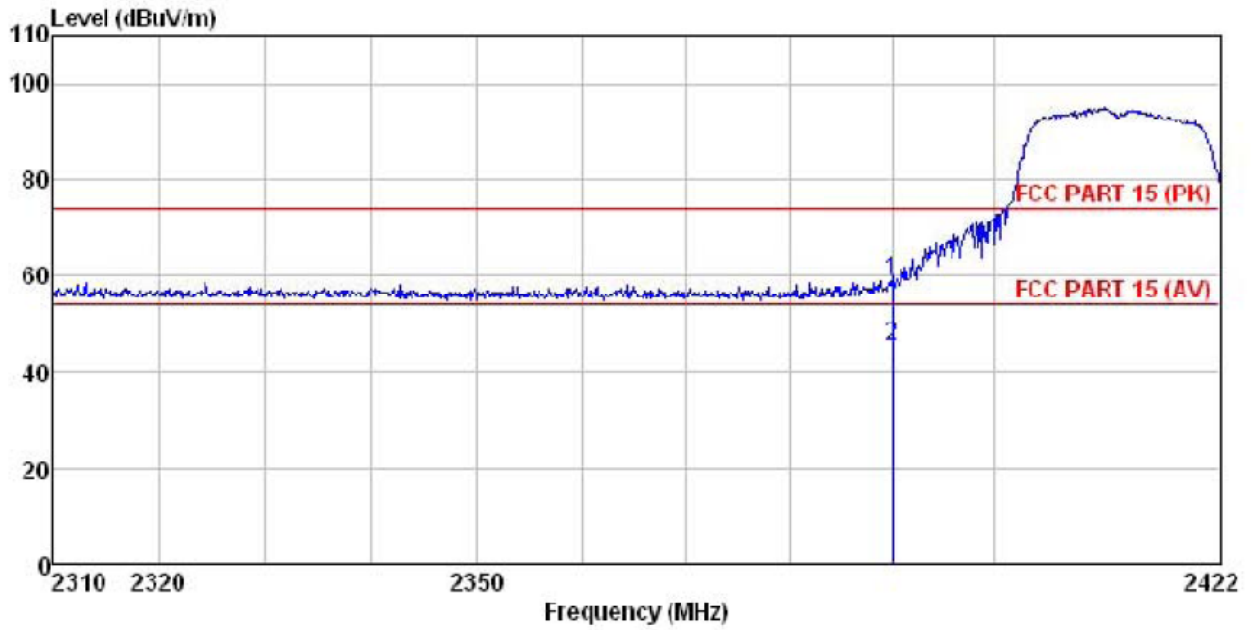
Frequency (MHz)								
	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.479	25.11	27.52	5.70	0.00	58.33	74.00	-15.67
2	2483.500	11.22	27.52	5.70	0.00	44.44	54.00	-9.56 Average

802.11n(HT20) Low Channel Horizontal



	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	22.50	27.58	5.67	0.00	55.75	74.00	-18.25	Peak
2	2390.000	11.16	27.58	5.67	0.00	44.41	54.00	-9.59	Average

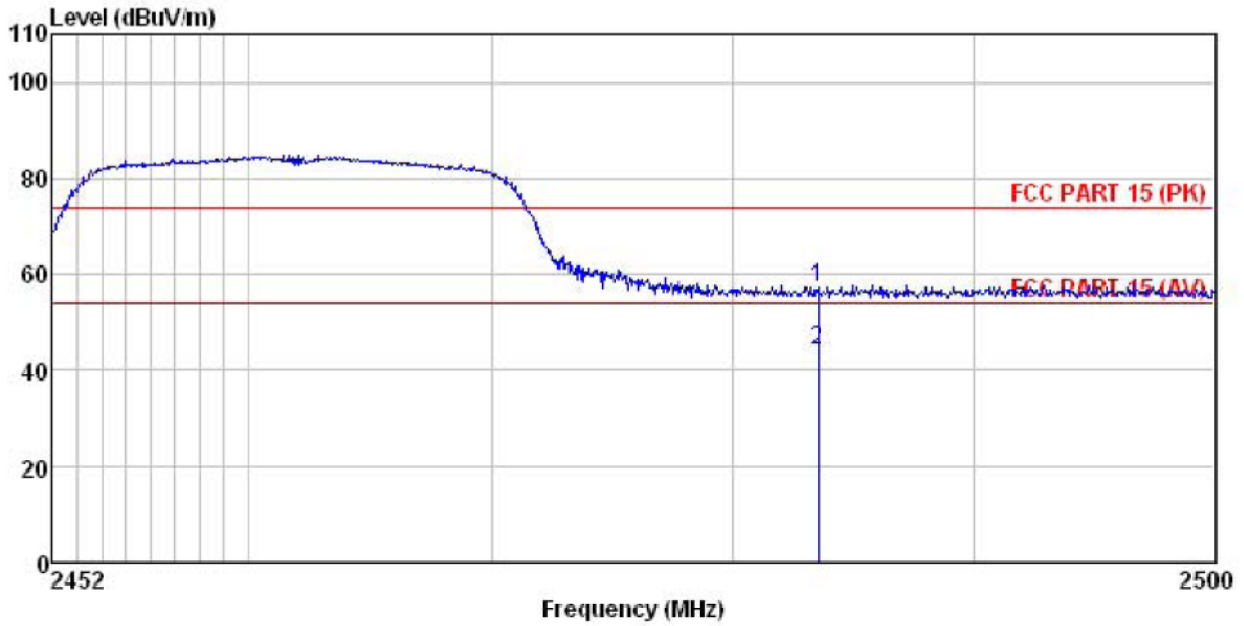
802.11n(HT20) Low Channel Vertical



	ReadAntenna	Cable Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2390.000	25.70	27.58	5.67	0.00	58.95	74.00	-15.05	Peak
2	2390.000	12.41	27.58	5.67	0.00	45.66	54.00	-8.34	Average



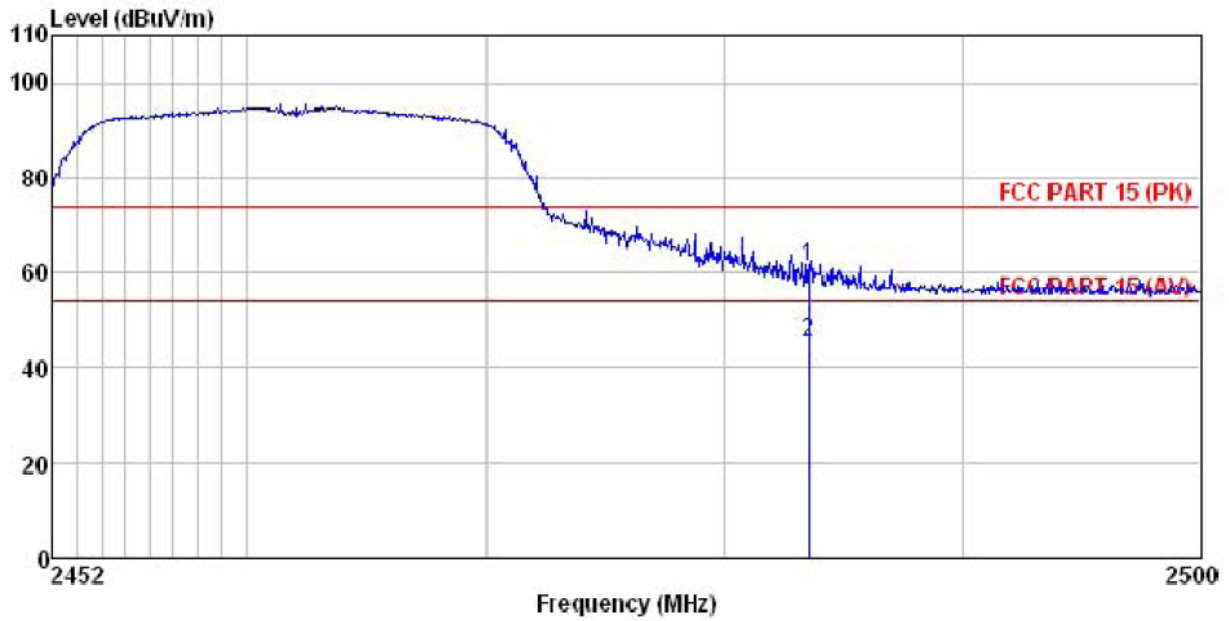
802.11n(HT20) High Channel Horizontal



	ReadAntenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	23.99	27.52	5.70	0.00	57.21	74.00	-16.79 Peak
2	2483.500	11.03	27.52	5.70	0.00	44.25	54.00	-9.75 Average

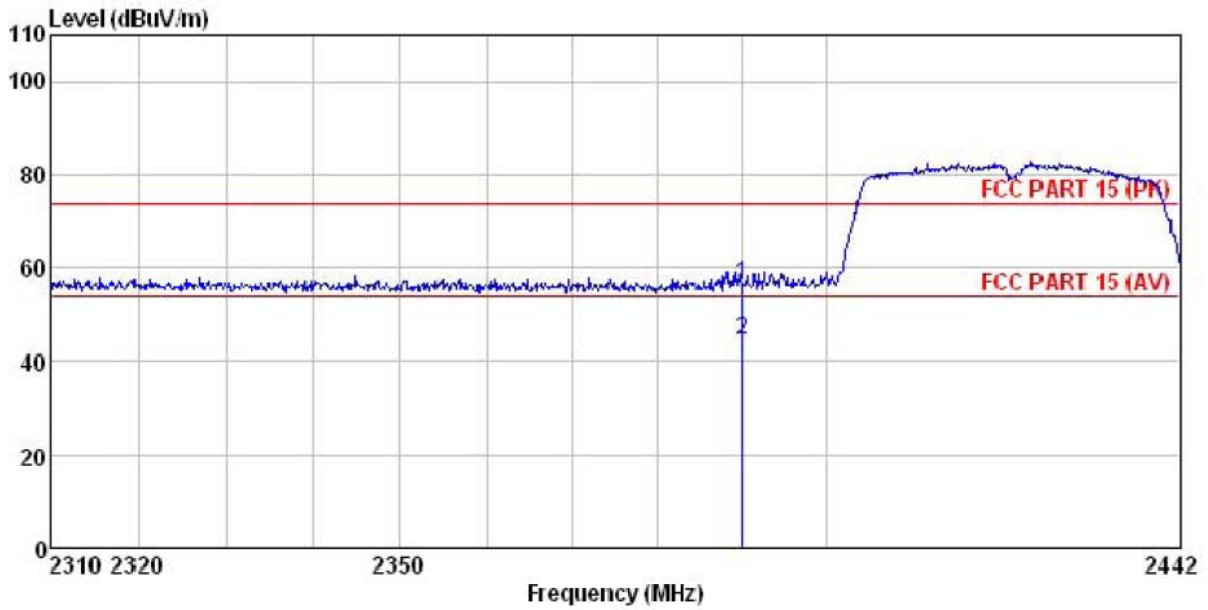


### 802.11n(HT20) High Channel Vertical



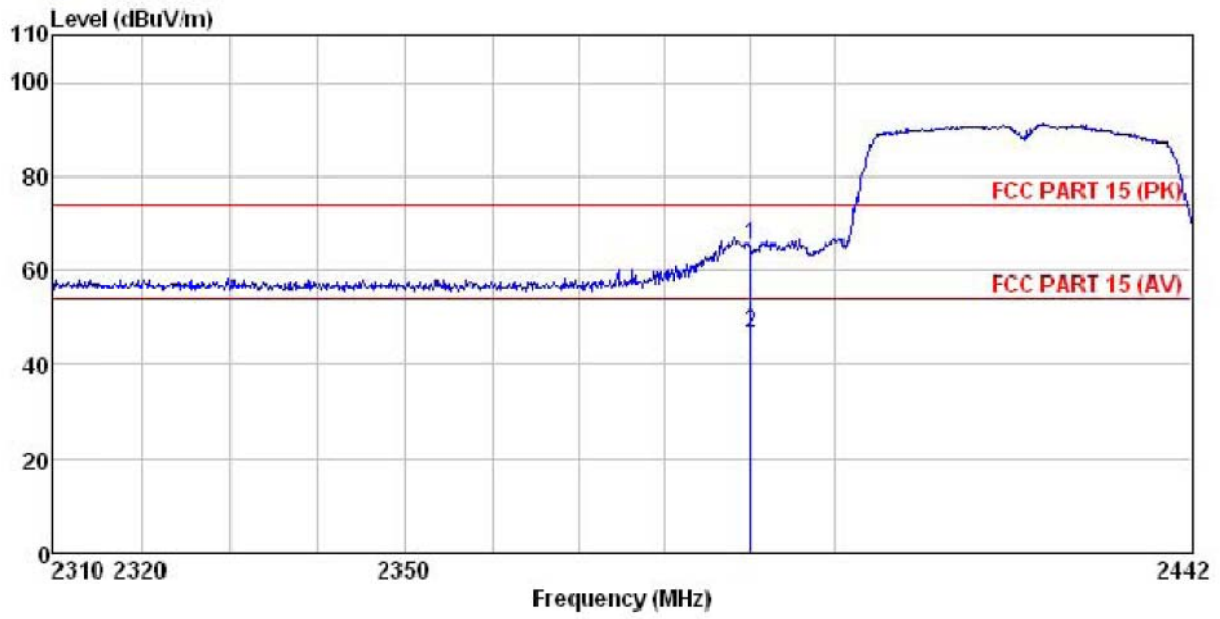
	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	27.87	27.52	5.70	0.00	61.09	74.00	-12.91	Peak
2	2483.500	12.29	27.52	5.70	0.00	45.51	54.00	-8.49	Average

802.11n(HT40) Low Channel Horizontal



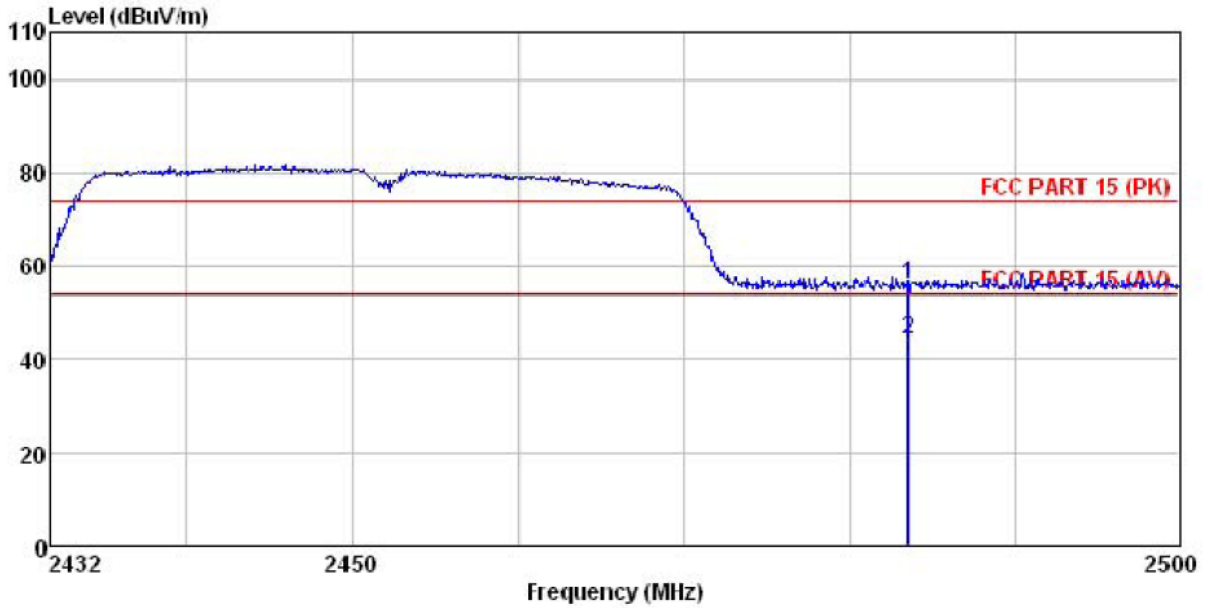
	ReadAntenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	23.27	27.58	5.67	0.00	56.52	74.00	-17.48 Peak
2	2390.000	11.40	27.58	5.67	0.00	44.65	54.00	-9.35 Average

802.11n(HT40) Low Channel Vertical



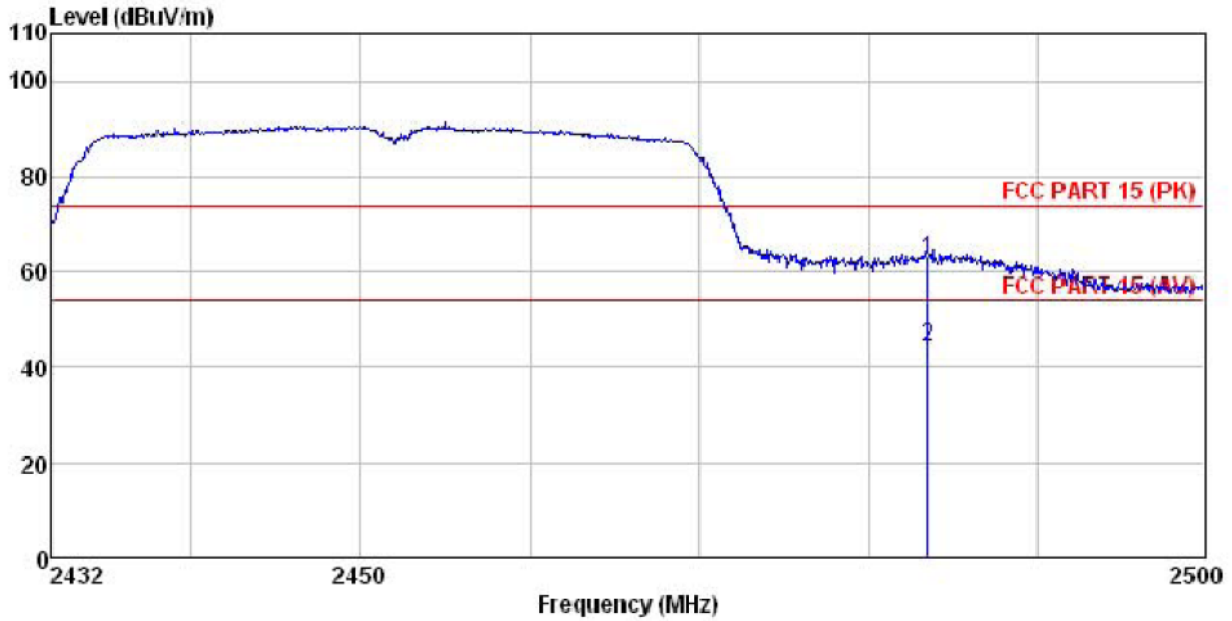
Frequency (MHz)								
	ReadAntenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	32.03	27.58	5.67	0.00	65.28	74.00	-8.72 Peak
2	2390.000	13.32	27.58	5.67	0.00	46.57	54.00	-7.43 Average

802.11n(HT40) High Channel Horizontal



	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark	
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	22.70	27.52	5.70	0.00	55.92	74.00	-18.08 Peak
2	2483.500	10.97	27.52	5.70	0.00	44.19	54.00	-9.81 Average

802.11n(HT40) High Channel Vertical

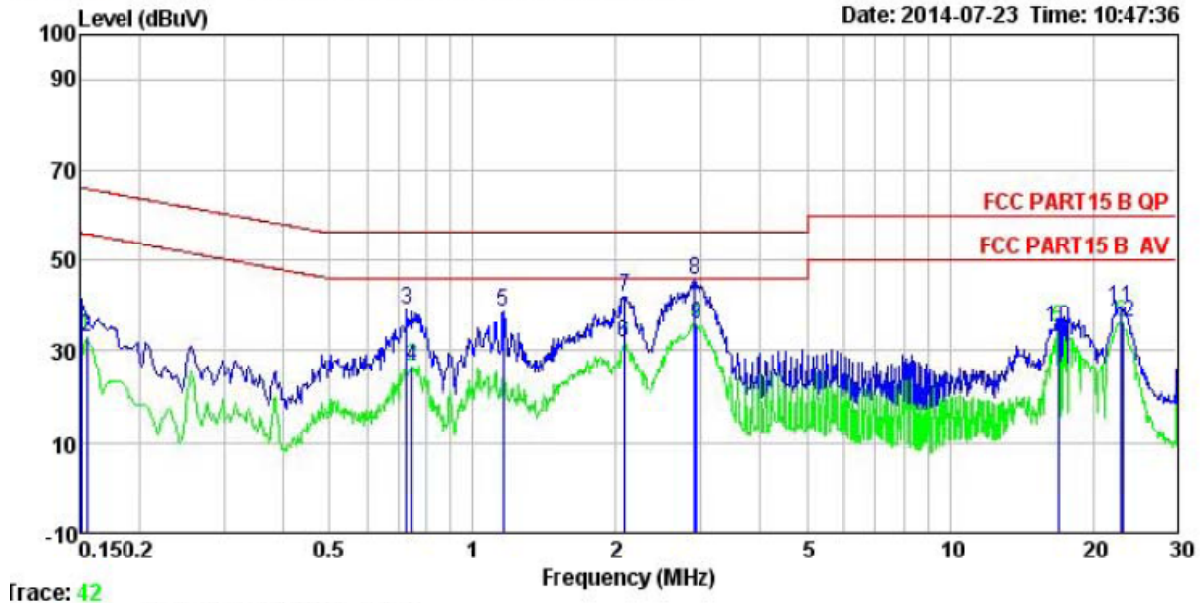


	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	29.32	27.52	5.70	0.00	62.54	74.00	-11.46	Peak
2	2483.500	11.21	27.52	5.70	0.00	44.43	54.00	-9.57	Average

**Appendix G: Conducted Emission at Power Port**

Channel 6

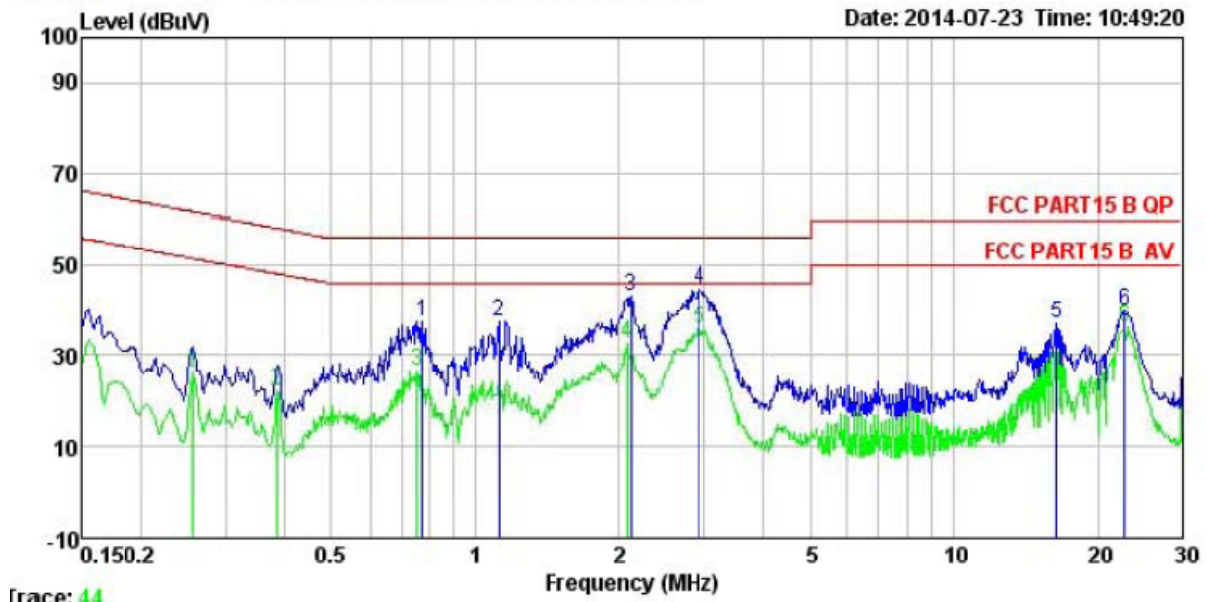
Line



Trace: 42

	Read Freq	Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	30.31	0.27	10.78	41.36	66.00	-24.64	Peak
2	0.154	21.90	0.27	10.78	32.95	55.78	-22.83	Average
3	0.727	27.92	0.22	10.78	38.92	56.00	-17.08	Peak
4	0.747	15.64	0.23	10.79	26.66	46.00	-19.34	Average
5	1.160	27.37	0.25	10.89	38.51	56.00	-17.49	Peak
6	2.077	20.61	0.26	10.96	31.83	46.00	-14.17	Average
7	2.088	30.92	0.26	10.96	42.14	56.00	-13.86	Peak
8	2.900	34.31	0.27	10.92	45.50	56.00	-10.50	Peak
9	2.931	24.86	0.27	10.92	36.05	46.00	-9.95	Average
10	16.928	23.68	0.33	10.91	34.92	50.00	-15.08	Average
11	22.896	28.34	0.45	10.89	39.68	60.00	-20.32	Peak
12	23.018	25.12	0.45	10.89	36.46	50.00	-13.54	Average

Neutral



	Read Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.771	26.64	0.19	10.80	37.63	56.00	-18.37	Peak
2	1.117	26.47	0.23	10.88	37.58	56.00	-18.42	Peak
3	2.121	31.93	0.29	10.95	43.17	56.00	-12.83	Peak
4	2.931	33.60	0.29	10.92	44.81	56.00	-11.19	Peak
5	16.398	25.73	0.25	10.91	36.89	60.00	-23.11	Peak
6	22.775	28.62	0.39	10.89	39.90	60.00	-20.10	Peak

END