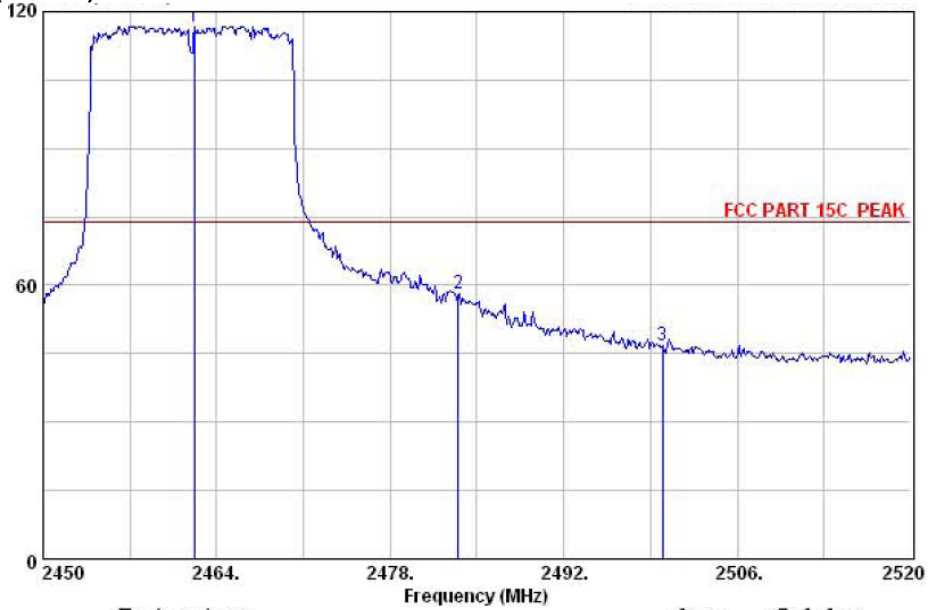


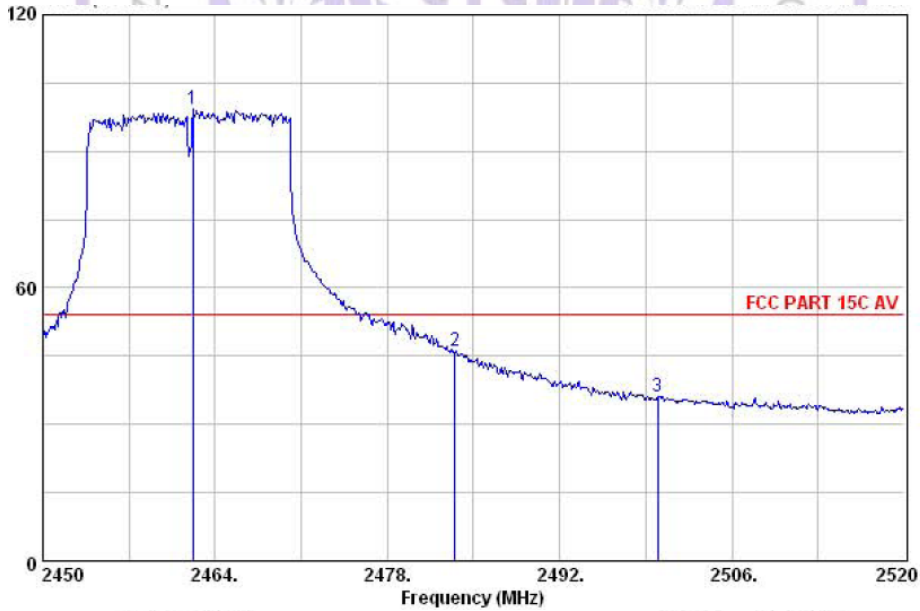
Note : For 802.11n (20MHz) Mode:



Emission		Ant.		Cable		Remark		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)		Loss (dB)	
1	2462.18	116.78	74.00	-42.78	82.99	31.56	2.23	Peak
2	2483.50	58.28	74.00	15.72	24.47	31.58	2.23	Peak
3	2500.00	46.71	74.00	27.29	12.88	31.60	2.23	Peak

Note:

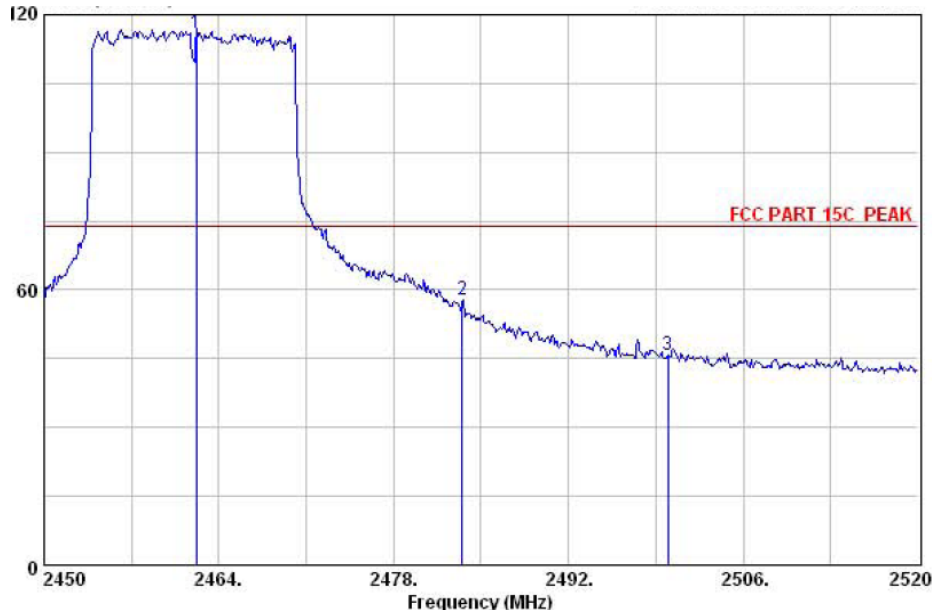
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ v/m.
2. Antenna Polarization vertical.



Emission		Ant.		Cable		Remark		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)		Loss (dB)	
1	2462.18	99.28	54.00	-45.28	65.49	31.56	2.23	Average
2	2483.50	46.01	54.00	7.99	12.20	31.58	2.23	Average
3	2500.00	36.25	54.00	17.75	2.42	31.60	2.23	Average

Note:

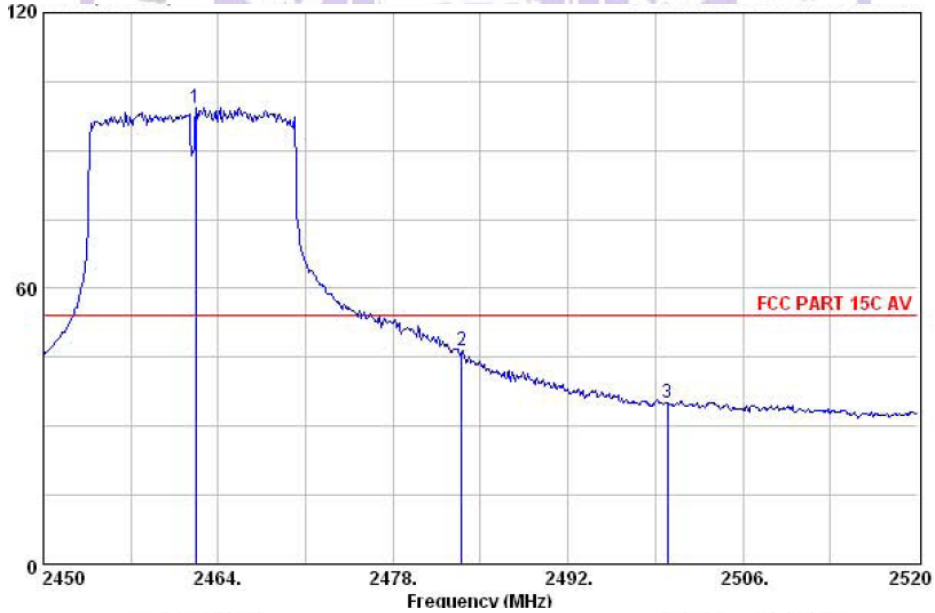
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ v/m.
2. Antenna Polarization vertical.



	Emission					Ant.	Cable	
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark	
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)		
1 2462.18	115.98	74.00	-41.98	82.19	31.56	2.23	Peak	
2 2483.50	57.76	74.00	16.24	23.95	31.58	2.23	Peak	
3 2500.00	45.83	74.00	28.17	12.00	31.60	2.23	Peak	

Note:

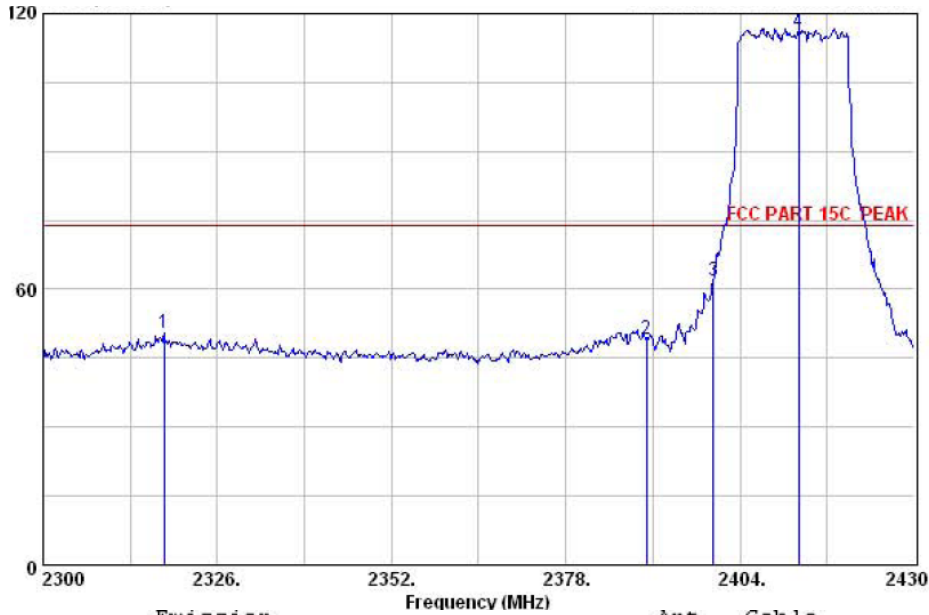
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ v/m.
2. Antenna Polarization horizontal.



	Emission					Ant.	Cable	
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark	
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)		
1 2462.18	99.32	54.00	-45.32	65.53	31.56	2.23	Average	
2 2483.50	46.58	54.00	7.42	12.77	31.58	2.23	Average	
3 2500.00	35.07	54.00	18.93	1.24	31.60	2.23	Average	

Note:

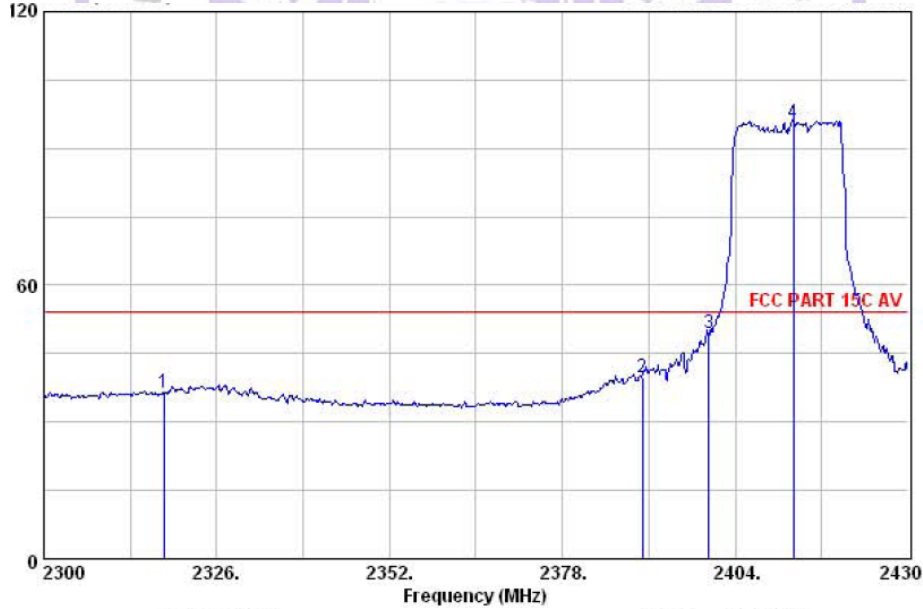
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ v/m.
2. Antenna Polarization horizontal.



	Emission				Reading	Ant. Factor	Cable Loss	Remark
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1	2318.07	50.38	74.00	23.62	16.75	31.41	2.22	Peak
2	2390.00	49.08	74.00	24.92	15.38	31.48	2.22	Peak
3	2400.00	61.72	74.00	12.28	27.99	31.50	2.23	Peak
4	2412.71	115.85	74.00	-41.85	82.12	31.50	2.23	Peak

Note:

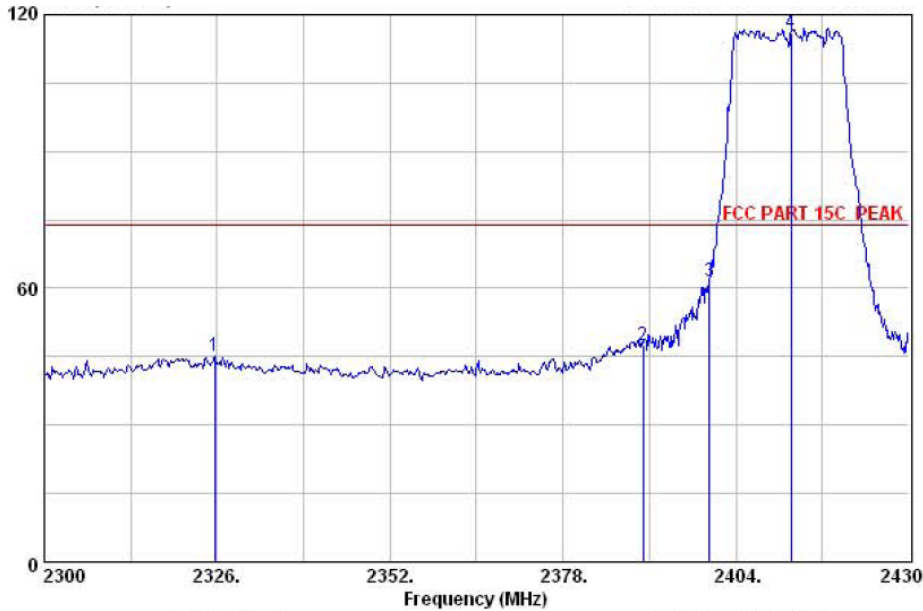
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ v/m.
2. Antenna Polarization horizontal.



	Emission				Reading	Ant. Factor	Cable Loss	Remark
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1	2318.07	36.39	54.00	17.61	2.76	31.41	2.22	Average
2	2390.00	39.81	54.00	14.19	6.11	31.48	2.22	Average
3	2400.00	49.62	54.00	4.38	15.89	31.50	2.23	Average
4	2412.71	95.59	54.00	-41.59	61.86	31.50	2.23	Average

Note:

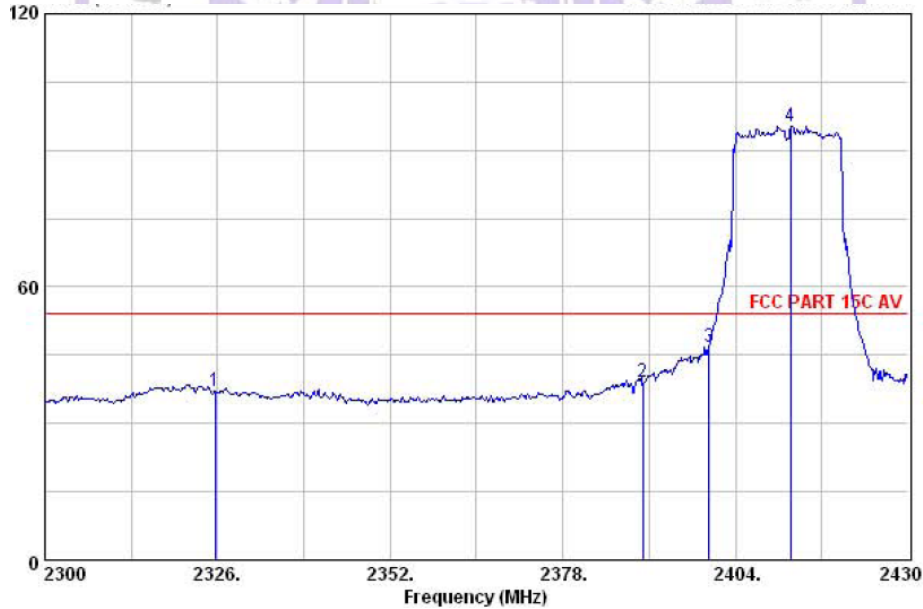
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ v/m.
2. Antenna Polarization horizontal.



	Emission				Ant. Cable			
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1	2325.61	45.25	74.00	28.75	11.60	31.43	2.22	Peak
2	2390.00	47.54	74.00	26.46	13.84	31.48	2.22	Peak
3	2400.00	61.48	74.00	12.52	27.75	31.50	2.23	Peak
4	2412.32	116.06	74.00	-42.06	82.33	31.50	2.23	Peak

Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dBuV/m.
2. Antenna Polarization vertical.

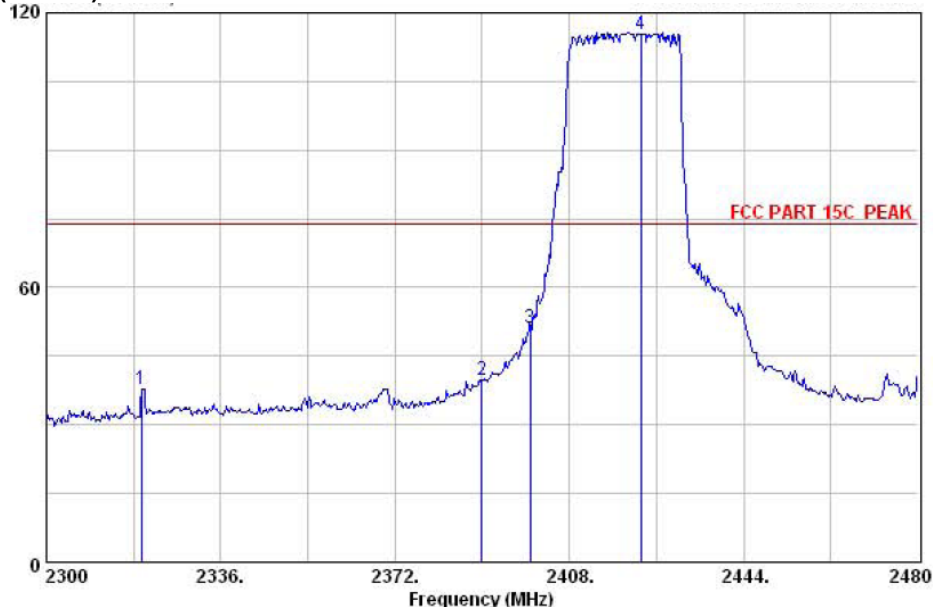


	Emission				Ant. Cable			
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1	2325.61	37.25	54.00	16.75	3.60	31.43	2.22	Average
2	2390.00	39.21	54.00	14.79	5.51	31.48	2.22	Average
3	2400.00	46.83	54.00	7.17	13.10	31.50	2.23	Average
4	2412.32	95.36	54.00	-41.36	61.63	31.50	2.23	Average

Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dBuV/m.
2. Antenna Polarization vertical.

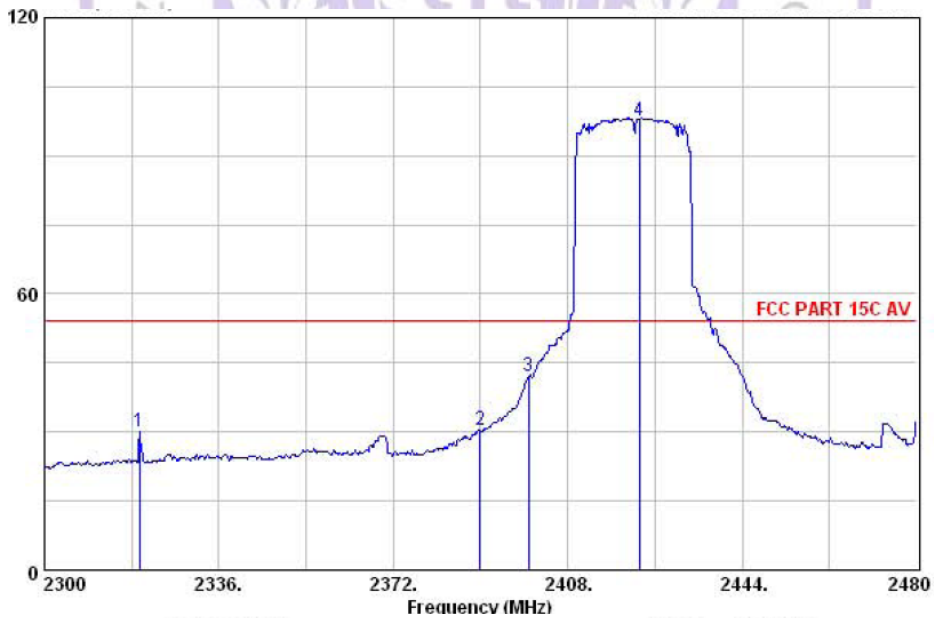
Note : For 802.11n (40MHz) Mode:



	Emission				Ant. Cable			
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1	2319.62	37.81	74.00	36.19	4.18	31.41	2.22	Peak
2	2390.00	39.62	74.00	34.38	5.92	31.48	2.22	Peak
3	2400.00	51.28	74.00	22.72	17.55	31.50	2.23	Peak
4	2422.76	115.44	74.00	-41.44	81.69	31.52	2.23	Peak

Note:

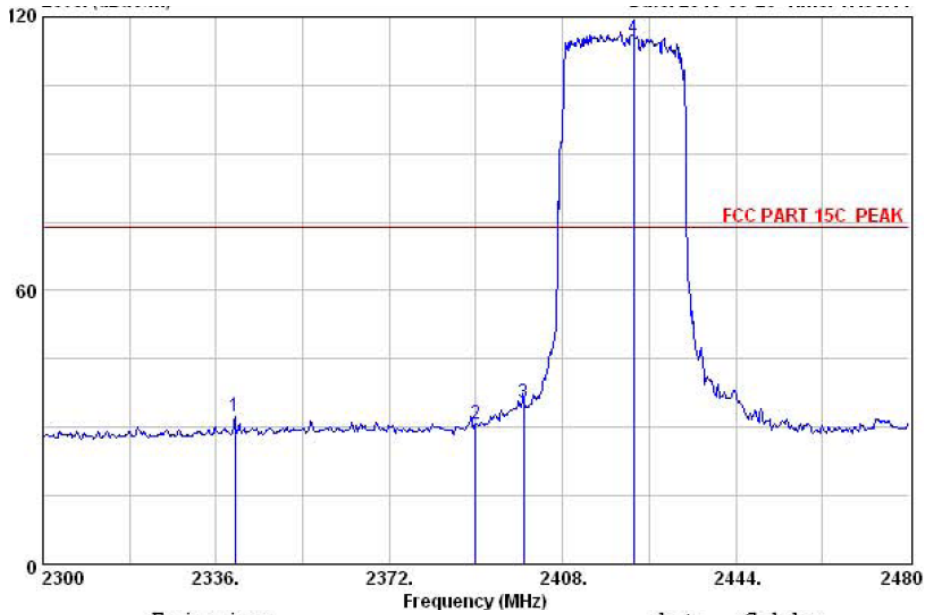
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dBuV/m.
2. Antenna Polarization vertical.



	Emission				Ant. Cable			
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1	2319.62	30.11	54.00	23.89	-3.52	31.41	2.22	Average
2	2390.00	30.31	54.00	23.69	-3.39	31.48	2.22	Average
3	2400.00	42.17	54.00	11.83	8.44	31.50	2.23	Average
4	2422.76	97.73	54.00	-43.73	63.98	31.52	2.23	Average

Note:

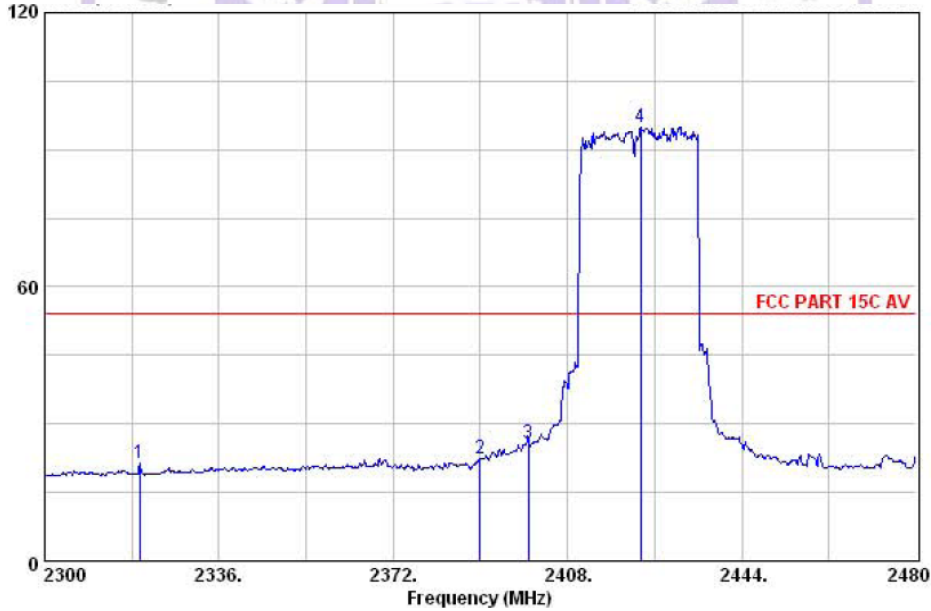
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dBuV/m.
2. Antenna Polarization vertical.



Emission					Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark	
1	2339.96	32.36	74.00	41.64	-1.31	31.45	2.22	Peak
2	2390.00	30.75	74.00	43.25	-2.95	31.48	2.22	Peak
3	2400.00	35.60	74.00	38.40	1.87	31.50	2.23	Peak
4	2422.76	115.20	74.00	-41.20	81.45	31.52	2.23	Peak

Note:

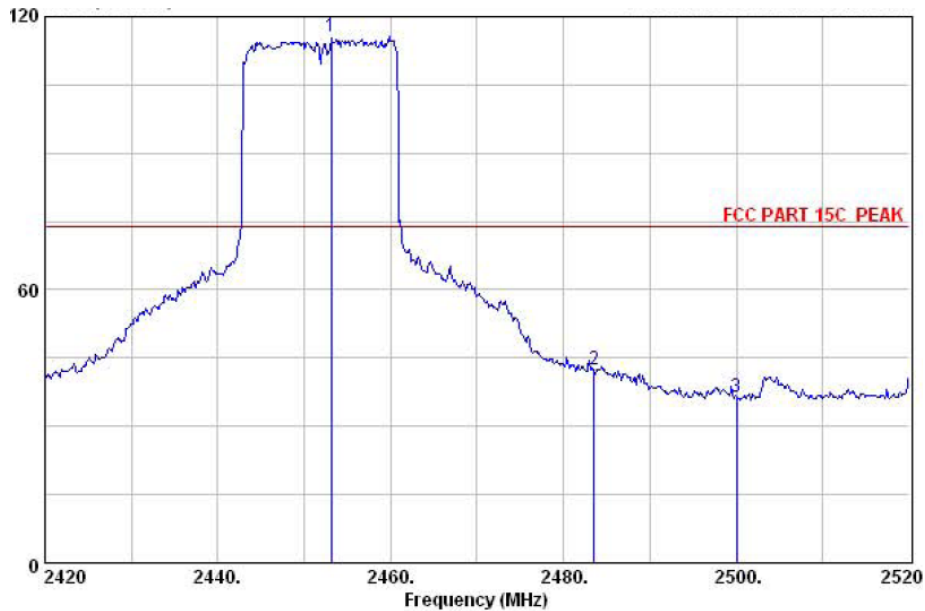
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ v/m.
2. Antenna Polarization horizontal.



Emission					Ant.	Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark	
1	2319.62	21.37	54.00	32.63	-12.26	31.41	2.22	Average
2	2390.00	22.23	54.00	31.77	-11.47	31.48	2.22	Average
3	2400.00	25.76	54.00	28.24	-7.97	31.50	2.23	Average
4	2423.12	94.79	54.00	-40.79	61.04	31.52	2.23	Average

Note:

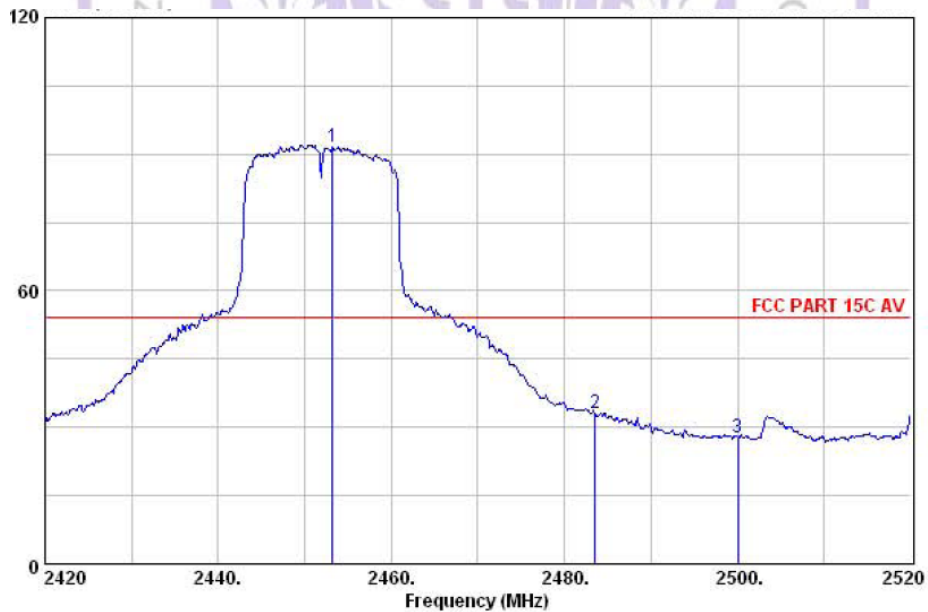
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ v/m.
2. Antenna Polarization horizontal.



	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2453.10	115.64	74.00	-41.64	81.87	31.54	2.23	Peak
2 2483.50	42.30	74.00	31.70	8.49	31.58	2.23	Peak
3 2500.00	36.58	74.00	37.42	2.75	31.60	2.23	Peak

Note:

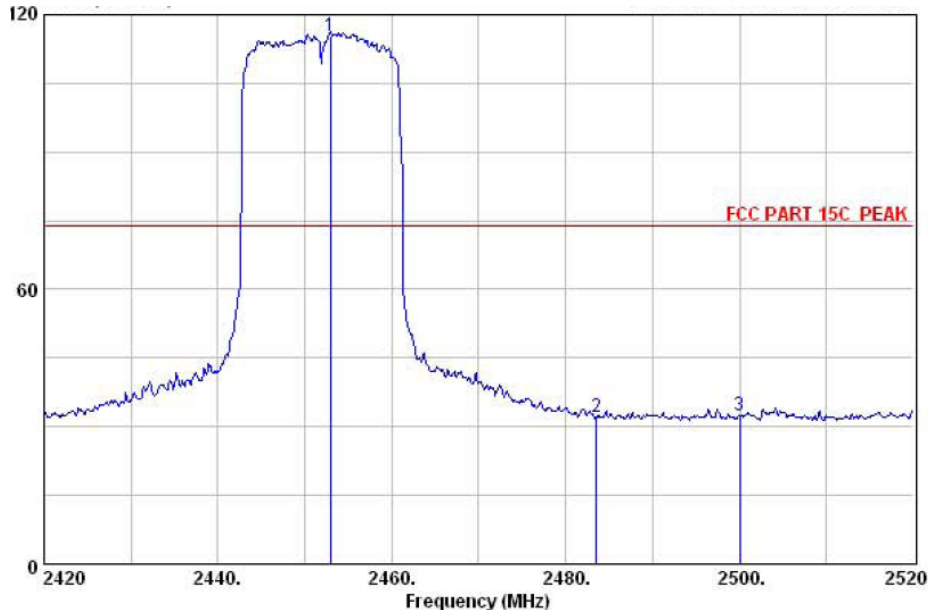
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dBµv/m.
2. Antenna Polarization vertical.



	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2453.20	91.64	54.00	-37.64	57.87	31.54	2.23	Average
2 2483.50	33.21	54.00	20.79	-0.60	31.58	2.23	Average
3 2500.00	27.87	54.00	26.13	-5.96	31.60	2.23	Average

Note:

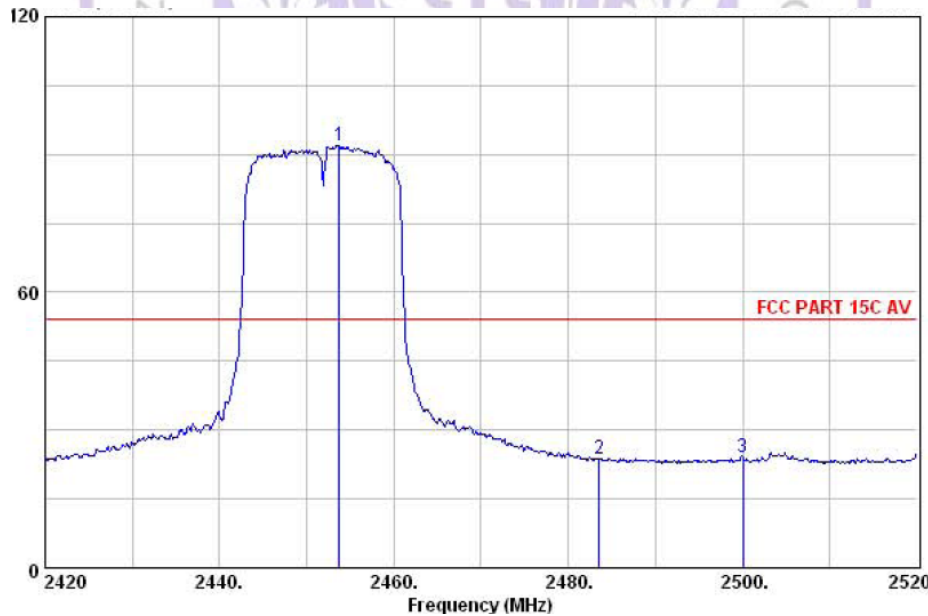
1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dBµv/m.
2. Antenna Polarization vertical.



	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2452.90	115.19	74.00	-41.19	81.42	31.54	2.23	Peak
2 2483.50	31.94	74.00	42.06	-1.87	31.58	2.23	Peak
3 2500.00	32.54	74.00	41.46	-1.29	31.60	2.23	Peak

Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the peak radiated field strength shall blow 74dB μ v/m.
2. Antenna Polarization horizontal.



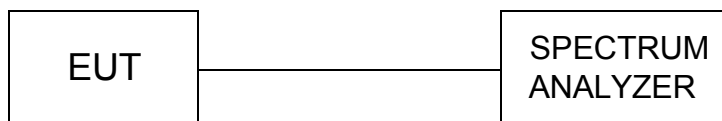
	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2453.70	92.02	54.00	-38.02	58.23	31.56	2.23	Average
2 2483.50	23.69	54.00	30.31	-10.12	31.58	2.23	Average
3 2500.00	24.00	54.00	30.00	-9.83	31.60	2.23	Average

Note:

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209, the average radiated field strength shall blow 54dB μ v/m.
2. Antenna Polarization horizontal.

4.6. Power Spectral Density Measurement

TEST CONFIGURATION



TEST PROCEDURE

1. The testing follows the FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Set SPAN = 20 MHz (For devices with a nominal 40 MHz BW, 50 MHz span will be needed)
3. Set REFERENCE LEVEL = 20 dBm
4. Set ATTENUATION = 0 dB (add internal attenuation, if necessary)
5. Set SWEEP TIME = Coupled
6. Set RBW = 3 kHz
7. Set VBW = 10 kHz
8. Set DETECTOR = Peak
9. Set MKR = Center Frequency
10. Set TRACE = CLEAR WRITE

Place the radio in continuous transmit mode. Set the TRACE to MAX HOLD, and after the trace stabilizes, the TRACE to VIEW. Set the marker on the peak of the signal and then adjust the center frequency of the spectrum analyzer to the marker frequency. After viewing the EUT waveform on the spectrum analyzer, perform the following spectrum analyzer functions to capture the trace:

11. Set SPAN = 300 kHz
12. Set SWEEP TIME = 100 s
13. Set TRACE = MAX HOLD
14. Set MKR = PEAK SEARCH
15. Record the marker level for the particular mode. Repeat these steps for other device modes.

LIMIT

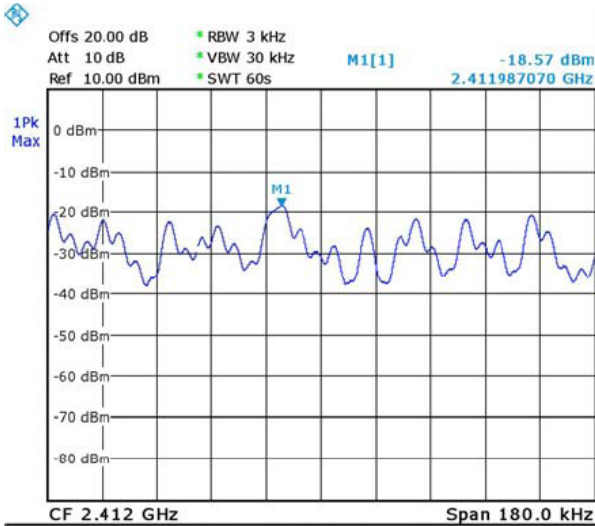
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST RESULTS

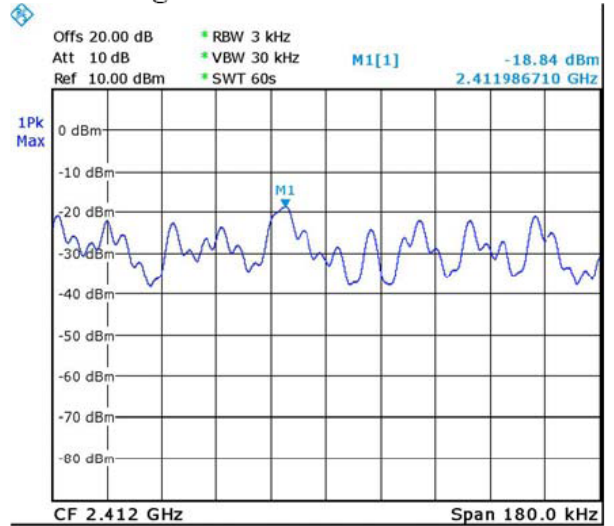
(Result=Read+cable loss)

Channel	Read (dBm)	Cable Loss (dB)	RF power level in 3 KHz BW (dBm)	Maximum limit (dBm)	PASS / FAIL
802.11b CH1	-18.57	3	-15.57	8	PASS
802.11b CH 6	-20.07	3	-17.07	8	PASS
802.11b CH 11	-14.90	3	-11.90	8	PASS
802.11g CH1	-18.84	3	-15.84	8	PASS
802.11g CH6	-20.22	3	-17.22	8	PASS
802.11g CH11	-15.01	3	-12.01	8	PASS
HT20 CH1	-18.94	3	-15.94	8	PASS
HT20 CH 6	-20.32	3	-17.32	8	PASS
HT20 CH 11	-15.12	3	-12.12	8	PASS
HT40 CH 3	-23.85	3	-20.85	8	PASS
HT40 CH 6	-25.89	3	-22.89	8	PASS
HT40 CH 9	-26.57	3	-23.57	8	PASS

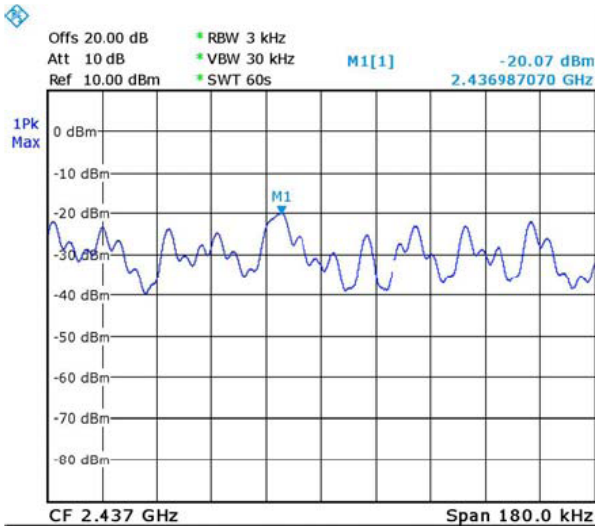
802.11b CH1 2412MHz



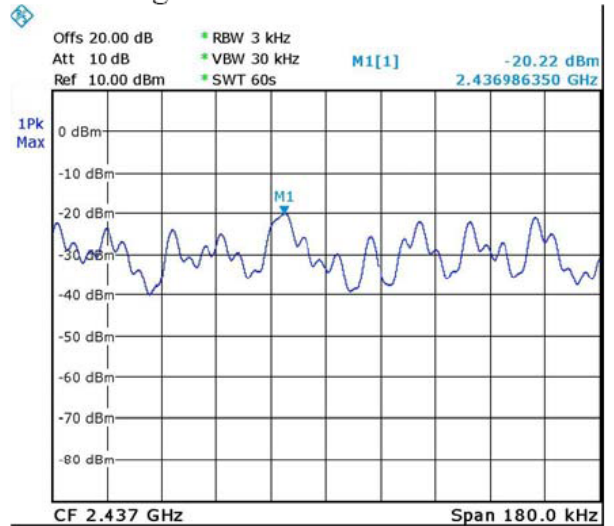
802.11g CH11 2412MHz



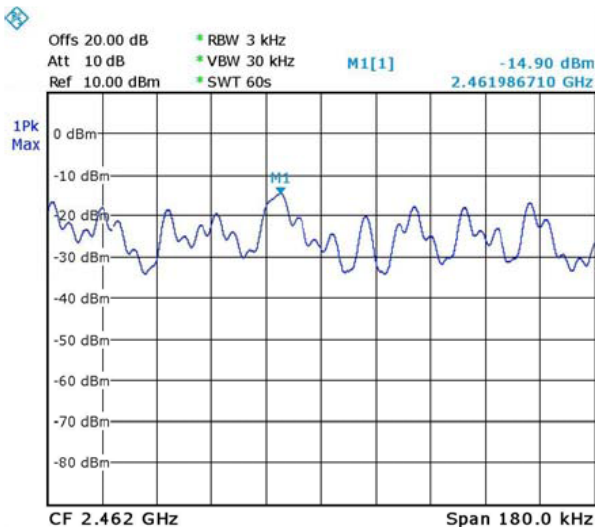
802.11b CH6 2437MHz



802.11g CH11 2437MHz



802.11b CH11 2462MHz



802.11g CH11 2462MHz

