802.11g

Ch1

Frequency(MHz)	Result (dBuV/m)	ARPL*	P_{Mea} (dBuV/m)	Polarization
2378	39.9	1.7	38.2	HORIZONTAL
4823.5	37.5	5.8	31.7	HORIZONTAL
7562.25	36.9	7	29.9	VERTICAL
9980.75	39.4	9.4	30	VERTICAL
13455	42	11.4	30.6	VERTICAL
16720	47.8	14.2	33.6	VERTICAL

Ch6

Frequency(MHz)	Result (dBuV/m)	ARPL*	P_{Mea} (dBuV/m)	Polarization
2380	38	1.7	36.3	HORIZONTAL
4870.75	38.4	5.9	32.5	HORIZONTAL
7557	36.9	6.9	30	VERTICAL
9923.875	39.3	9.3	30	VERTICAL
13452	41.8	11.4	30.4	VERTICAL
16764	47.7	14.3	33.4	VERTICAL

Ch11

Frequency(MHz)	Result (dBuV/m)	ARPL*	P_{Mea} (dBuV/m)	Polarization
2357	36.4	1.7	34.7	VERTICAL
4925	35.9	5.9	30	HORIZONTAL
7559.625	36.6	6.9	29.7	VERTICAL
9978.125	39.3	9.4	29.9	VERTICAL
13454	41.9	11.4	30.5	VERTICAL
16751	47.8	14.3	33.5	HORIZONTAL

802.11n-HT20

Ch1

Frequency(MHz)	Result (dBuV/m)	ARPL*	P_{Mea} (dBuV/m)	Polarization
2379	42.1	1.7	40.4	HORIZONTAL
4826.125	38.4	5.8	32.6	HORIZONTAL
7560.5	36.8	6.9	29.9	VERTICAL
9980.75	39.4	9.4	30	VERTICAL
13454	41.9	11.4	30.5	VERTICAL
16767	47.6	14.3	33.3	VERTICAL

Ch6

Frequency(MHz)	Result (dBuV/m)	ARPL*	P_{Mea} (dBuV/m)	Polarization
2379	38.5	1.7	36.8	HORIZONTAL
4870.75	38.7	5.9	32.8	HORIZONTAL
7510.625	36.9	6.9	30	VERTICAL
9929.125	39.4	9.3	30.1	VERTICAL
13165	42	11.5	30.5	VERTICAL
16743	47.7	14.3	33.4	VERTICAL

Ch11

Frequency(MHz)	Result (dBuV/m)	ARPL*	P_{Mea} (dBuV/m)	Polarization
2357	36.4	1.7	34.7	VERTICAL
4925	35.7	5.9	29.8	HORIZONTAL
7559.625	37	6.9	30.1	VERTICAL
9930	39.4	9.3	30.1	VERTICAL
13452	42.2	11.4	30.8	VERTICAL
16743	47.8	14.3	33.5	VERTICAL

802.11n-HT40

Ch3

Frequency(MHz)	Result (dBuV/m)	ARPL*	P_{Mea} (dBuV/m)	Polarization
2380	46	1.7	44.3	HORIZONTAL
4834.875	35.2	5.8	29.4	HORIZONTAL
7557	36.8	6.9	29.9	VERTICAL
9934.375	39.4	9.4	30	VERTICAL
13449	42	11.4	30.6	VERTICAL
16751	47.9	14.3	33.6	VERTICAL

Ch6

Frequency(MHz)	Result (dBuV/m)	ARPL*	P_{Mea} (dBuV/m)	Polarization
2380	45.1	1.7	43.4	HORIZONTAL
4865.5	35.7	5.9	29.8	HORIZONTAL
7552.625	36.9	6.9	30	VERTICAL
9926.5	39.4	9.3	30.1	VERTICAL
13449	42.2	11.4	30.8	VERTICAL
16738	47.9	14.3	33.6	HORIZONTAL

Ch9

Frequency(MHz)	Result (dBuV/m)	ARPL*	P_{Mea} (dBuV/m)	Polarization
2380	38.5	1.7	36.8	HORIZONTAL
3239.75	35.2	3.3	31.9	HORIZONTAL
7562.25	36.8	7	29.8	VERTICAL
9931.75	39.3	9.4	29.9	VERTICAL
13449	42.2	11.4	30.8	VERTICAL
16757	47.8	14.3	33.5	HORIZONTAL

Test graphs as below:

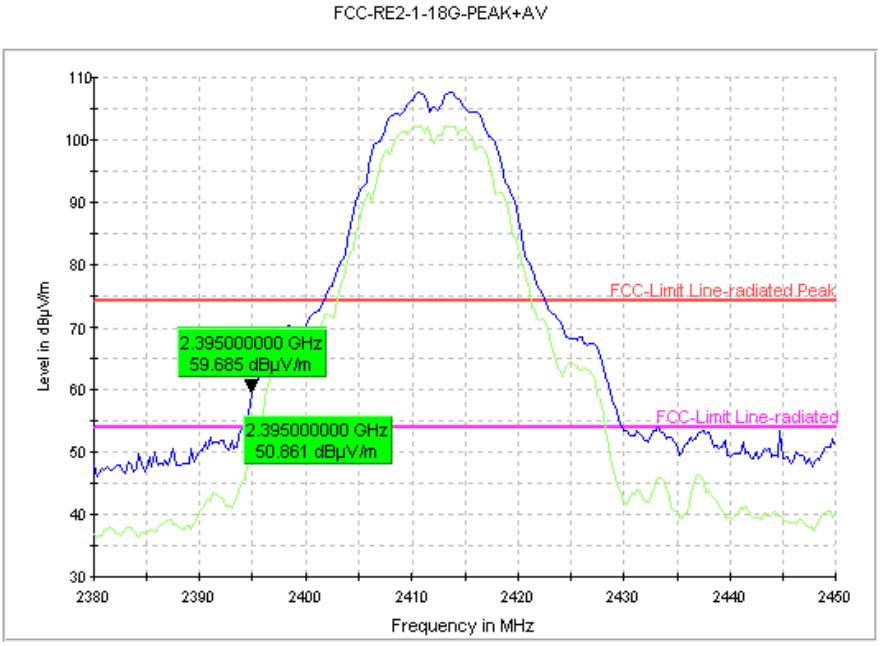

Fig.A.6.2.1 Radiated Spurious Emission (Power): 802.11b, ch1, 2.38 GHz – 2.45GHz

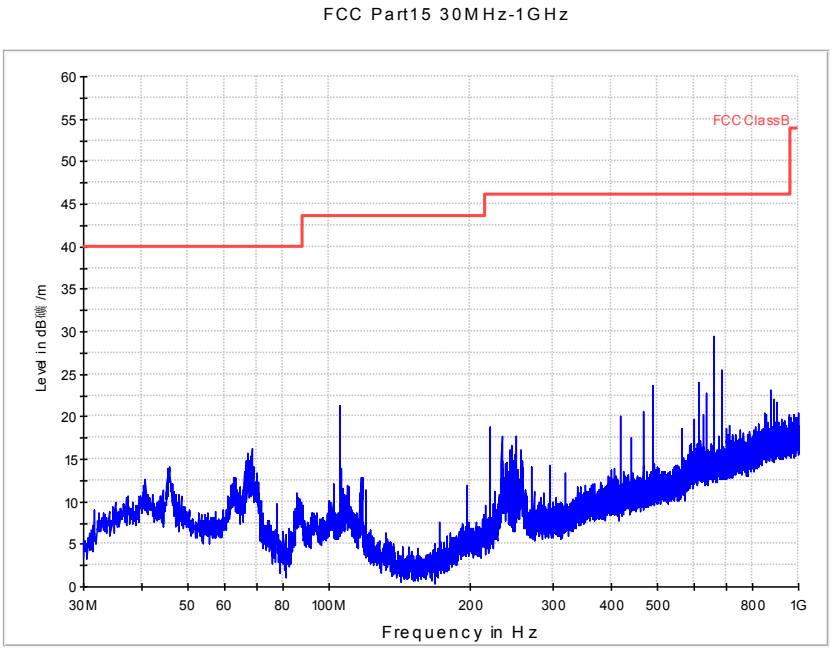

Fig.A.6.2.2 Radiated Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)

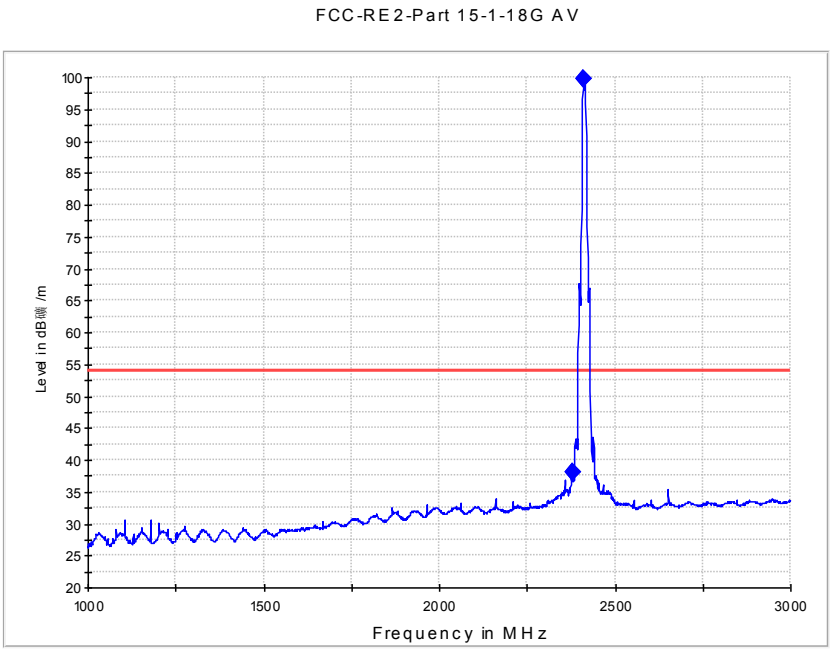

Fig.A.6.2.3 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-3 GHz)

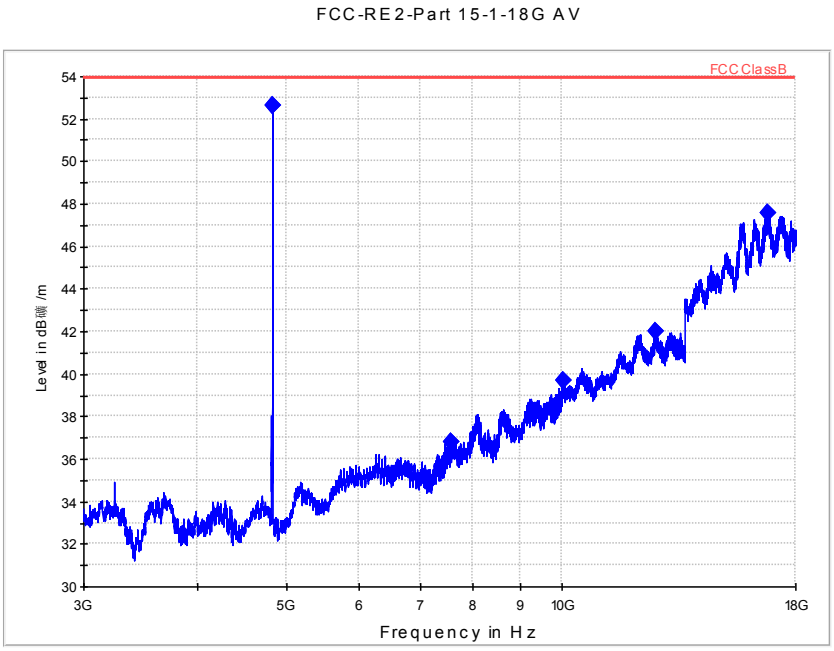

Fig.A.6.2.4 Radiated Spurious Emission (802.11b, Ch1, 3 GHz-18 GHz)

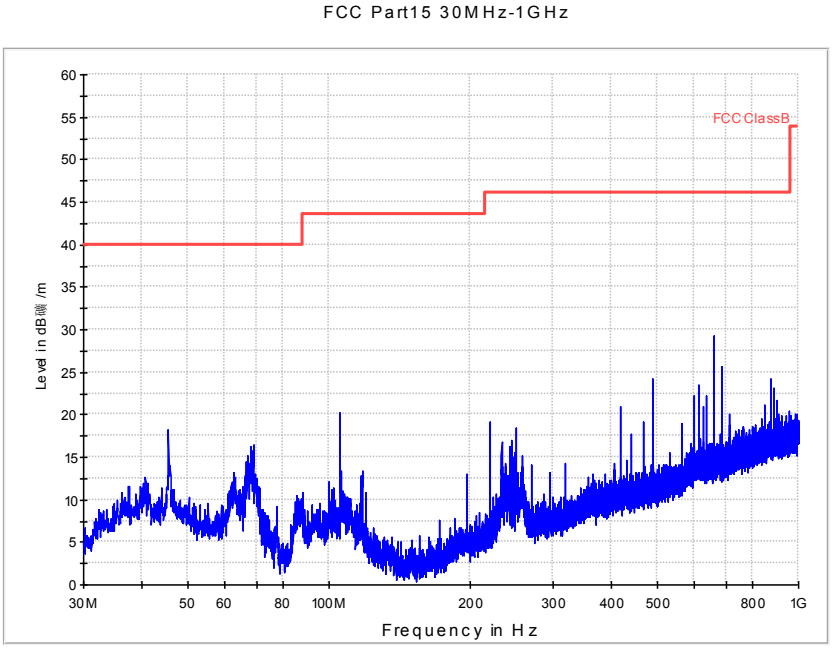

Fig.A.6.2.5 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)

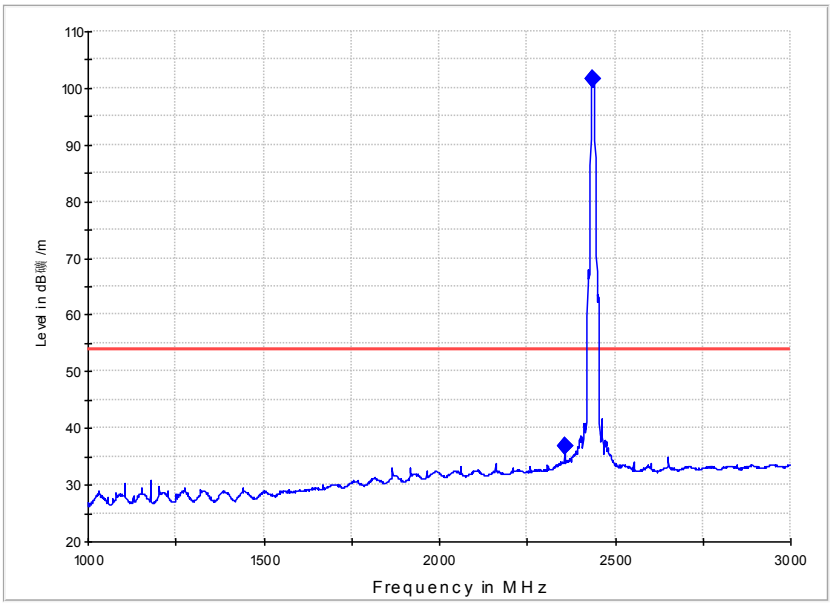

Fig.A.6.2.6 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-3 GHz)

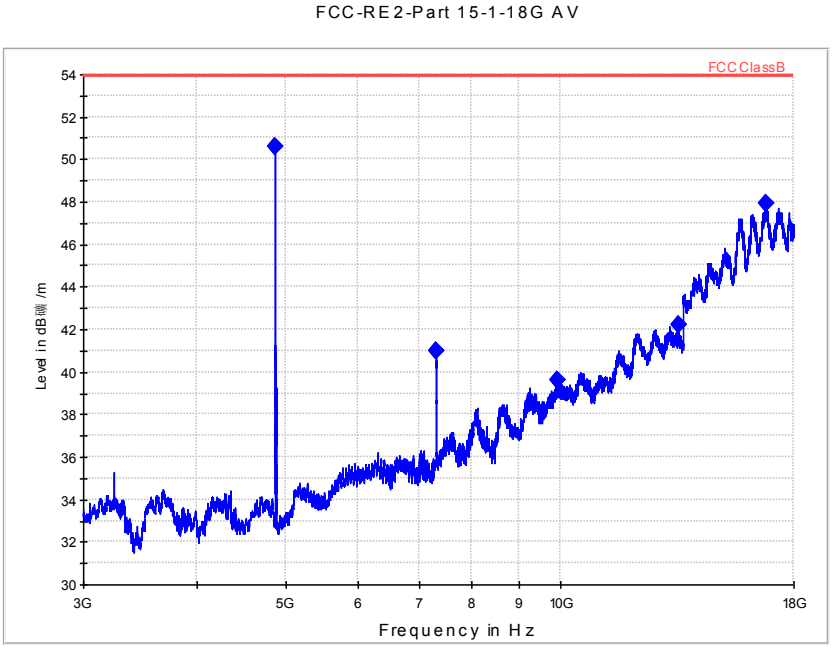

Fig.A.6.2.7 Radiated Spurious Emission (802.11b, Ch6, 3 GHz-18 GHz)

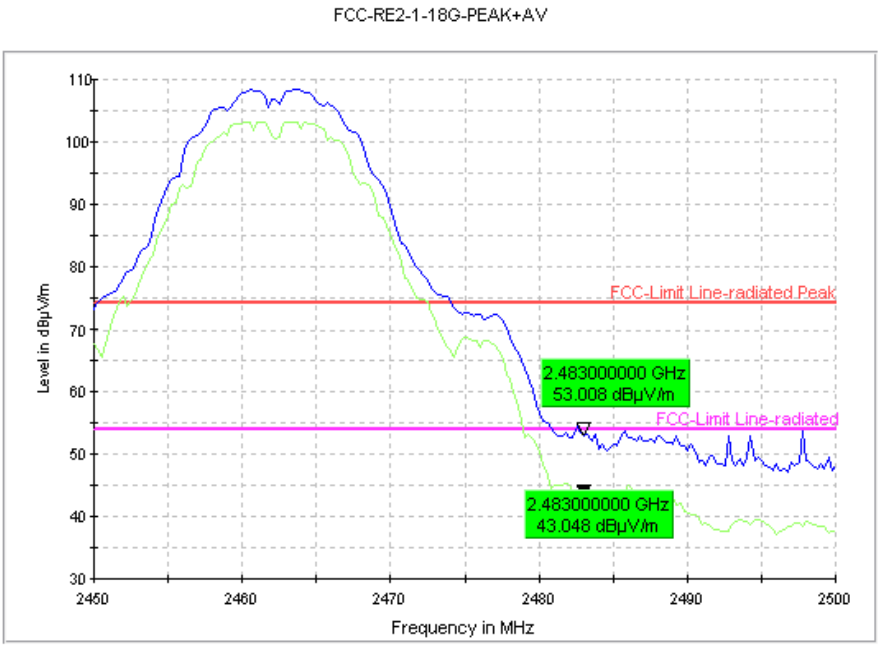

Fig.A.6.2.8 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

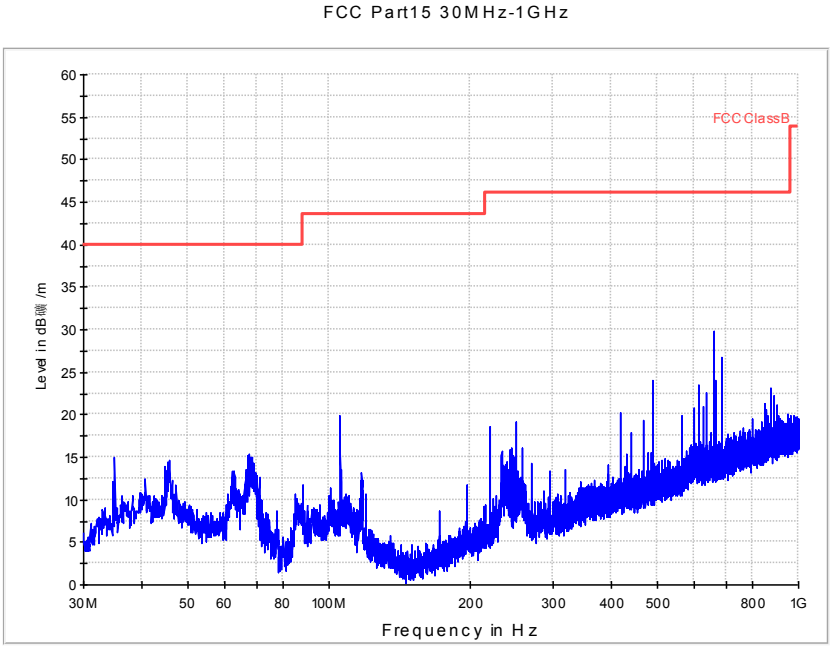

Fig.A.6.2.9 Radiated Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)

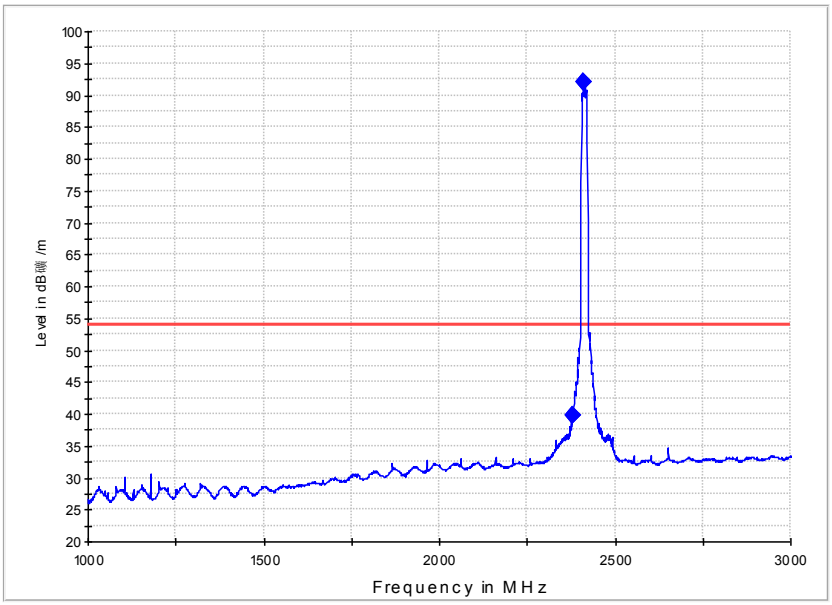

Fig.A.6.2.10 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-3 GHz)

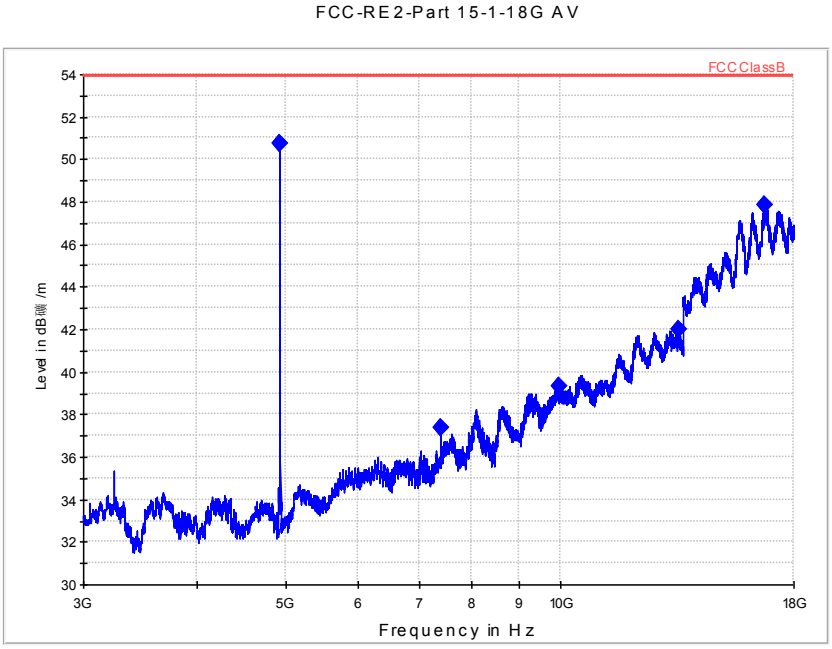

Fig.A.6.2.11 Radiated Spurious Emission (802.11b, Ch11, 3 GHz-18 GHz)

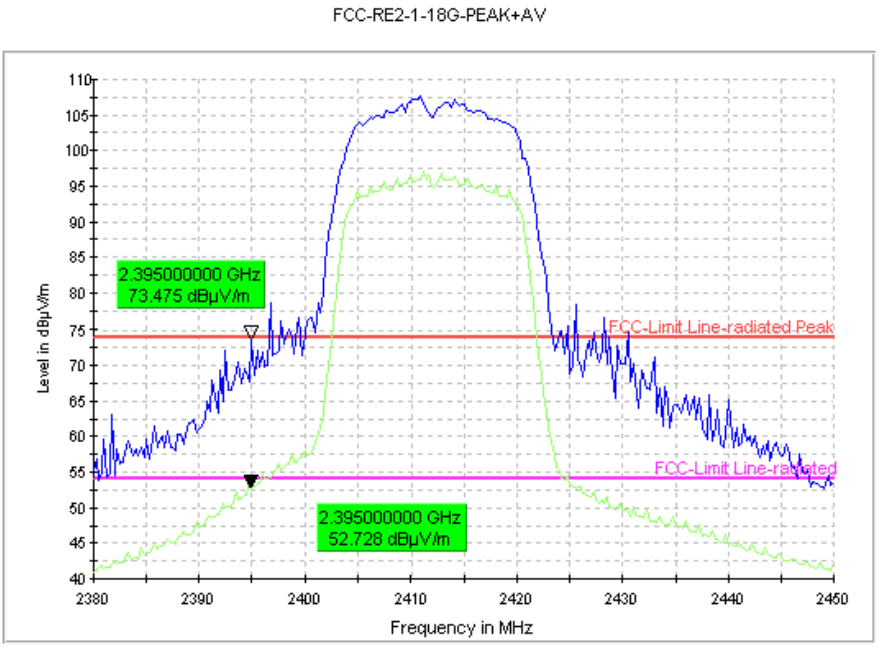

Fig.A.6.2.12 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

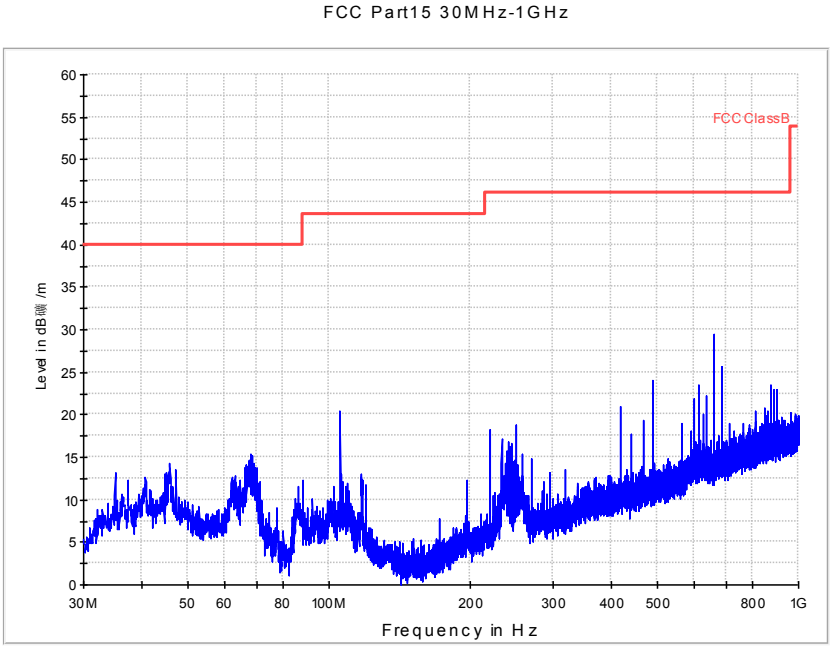

Fig.A.6.2.13 Radiated Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)

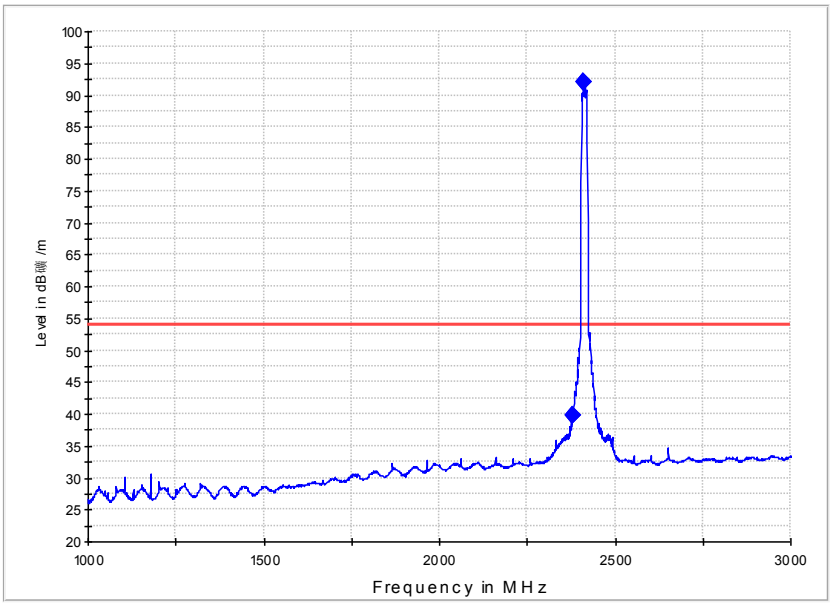

Fig.A.6.2.14 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-3 GHz)

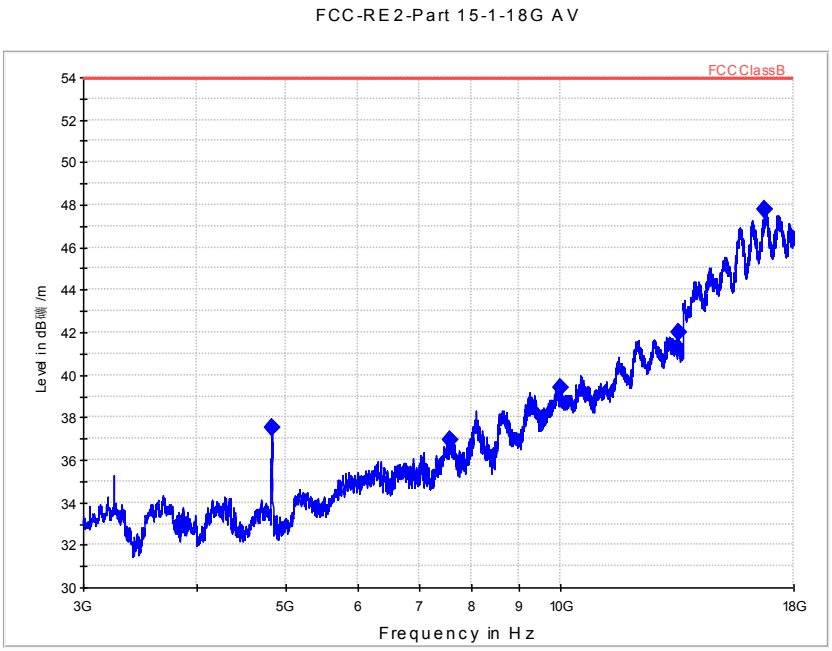

Fig.A.6.2.15 Radiated Spurious Emission (802.11g, Ch1, 3 GHz-18 GHz)

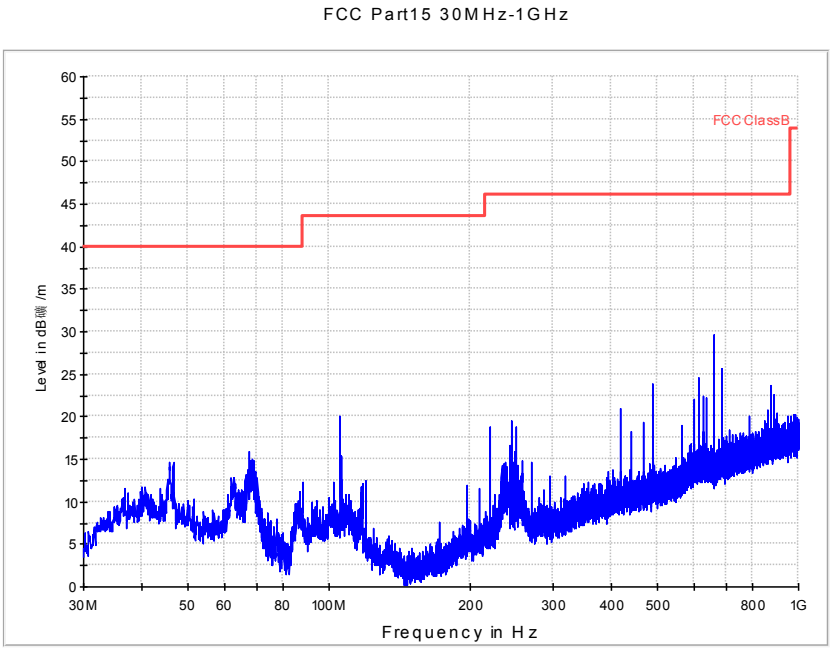

Fig.A.6.2.16 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)

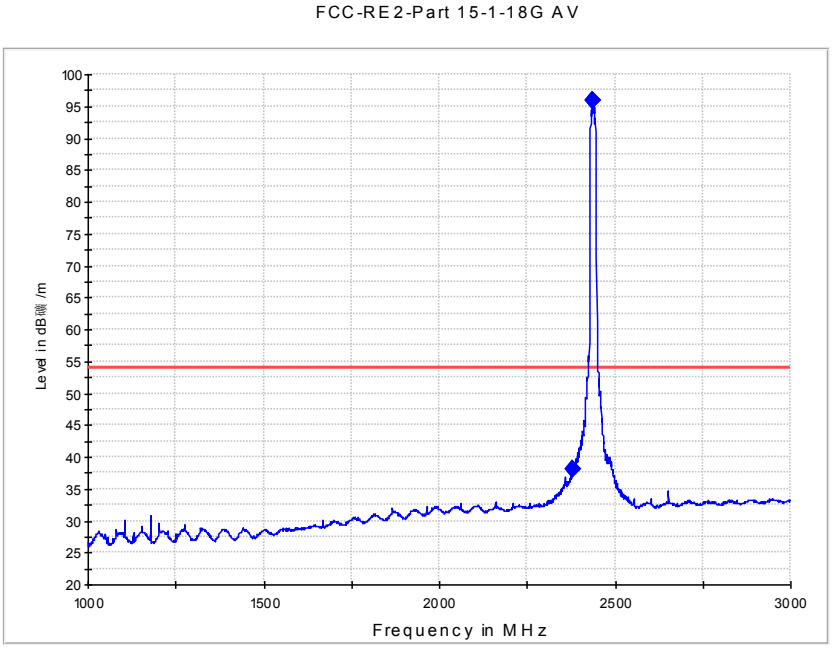

Fig.A.6.2.17 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-3 GHz)

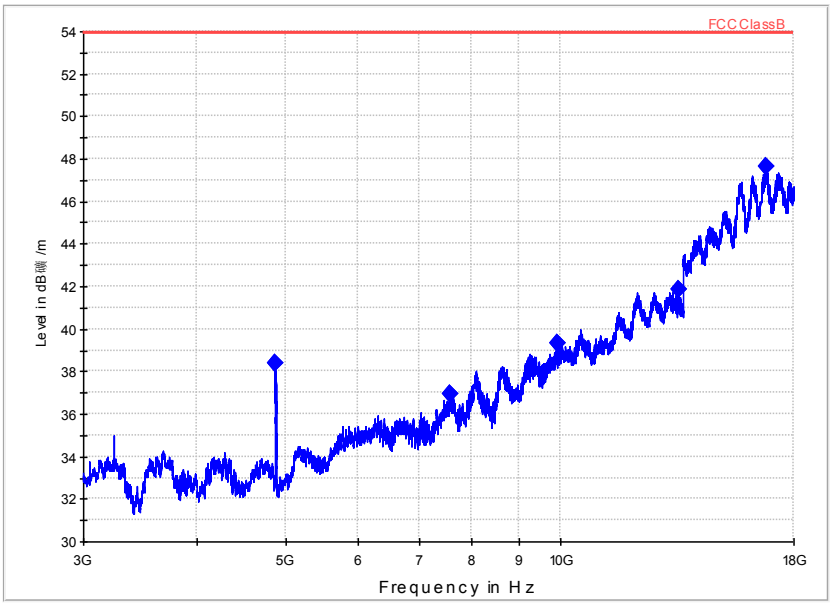

Fig.A.6.2.18 Radiated Spurious Emission (802.11g, Ch6, 3 GHz-18 GHz)

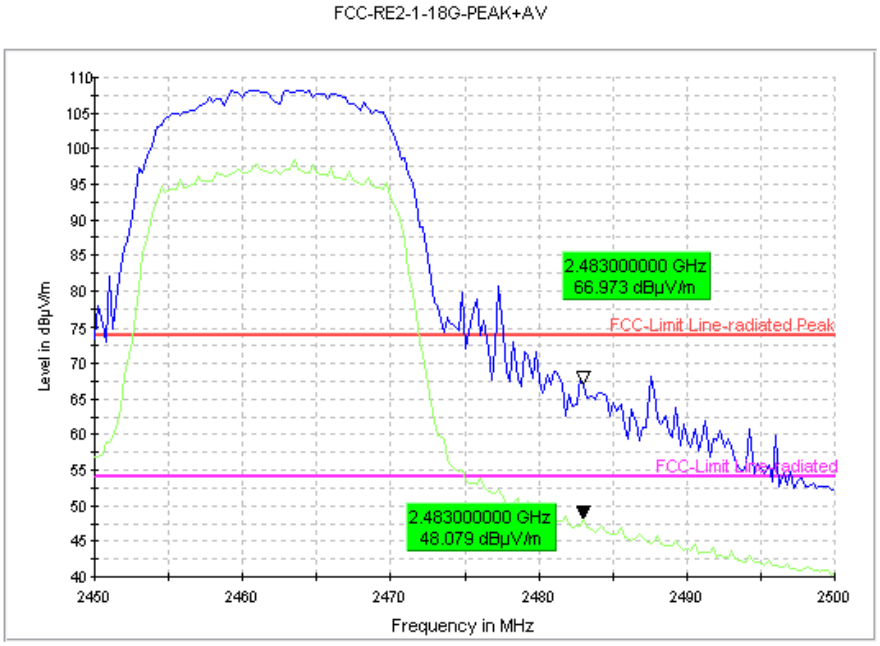

Fig.A.6.2.19 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

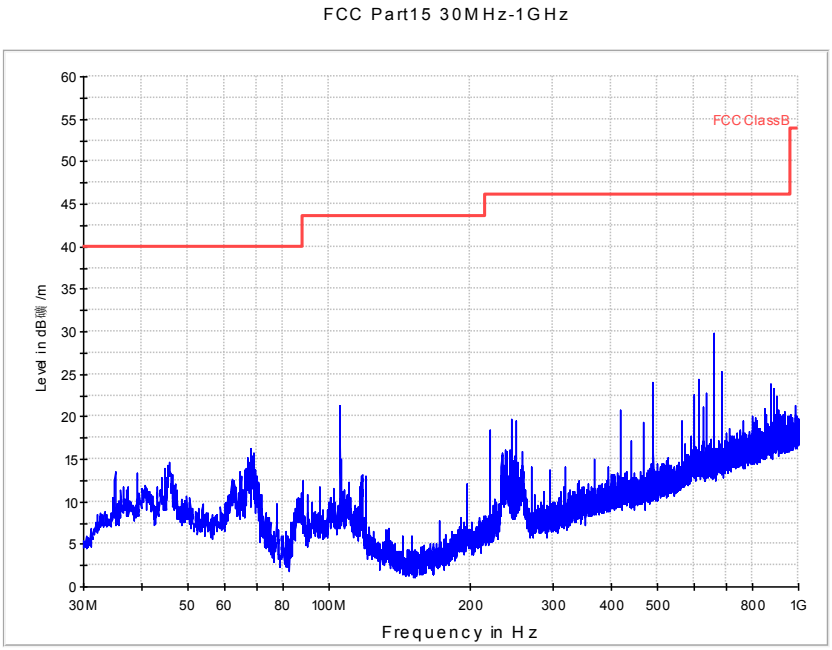

Fig.A.6.2.20 Radiated Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)

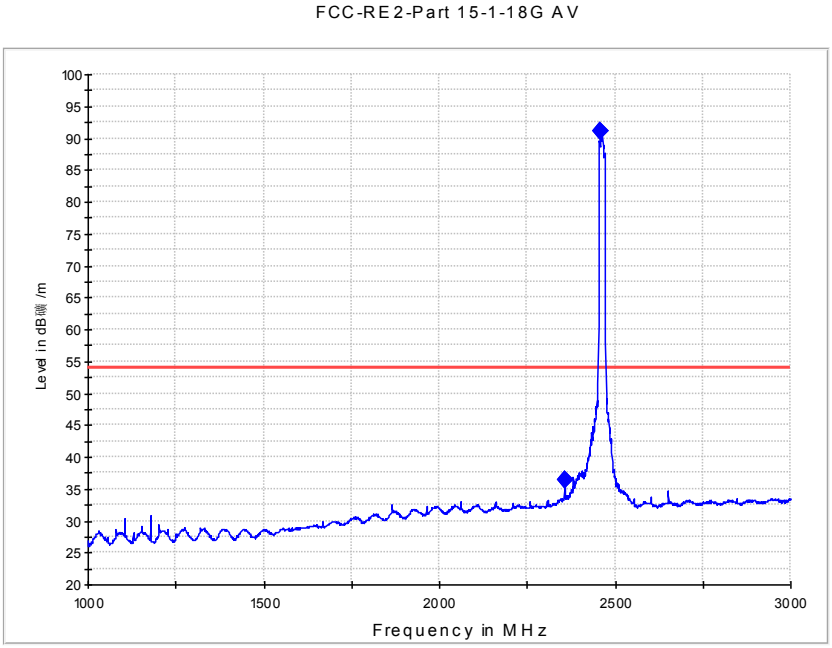

Fig.A.6.2.21 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-3 GHz)

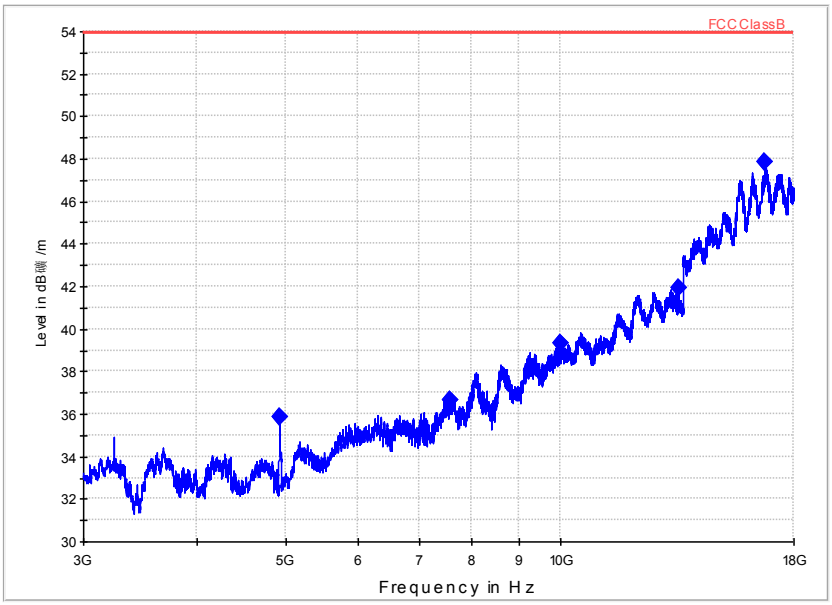

Fig.A.6.2.22 Radiated Spurious Emission (802.11g, Ch11, 3 GHz-18 GHz)

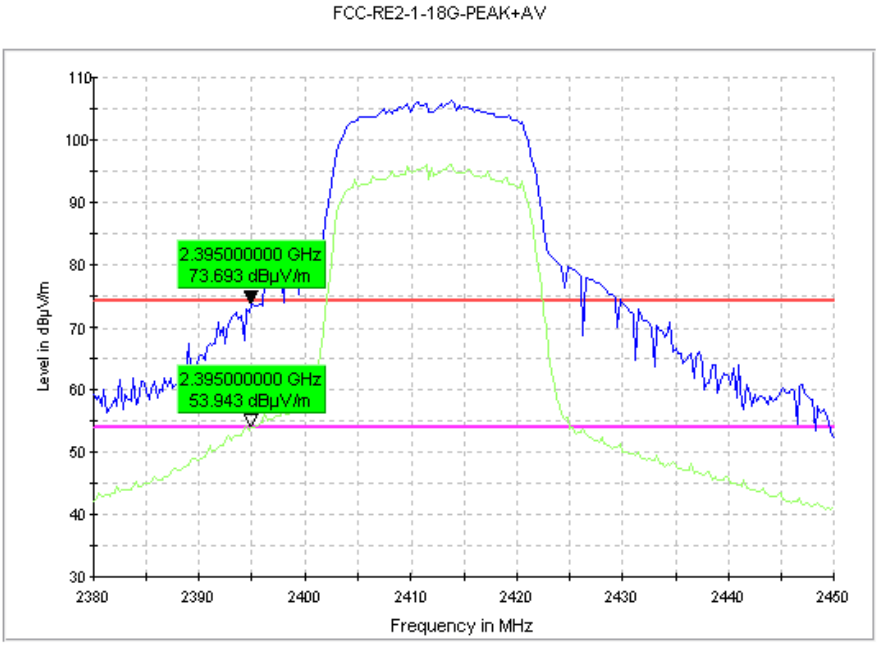

Fig.A.6.2.23 Radiated Spurious Emission (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

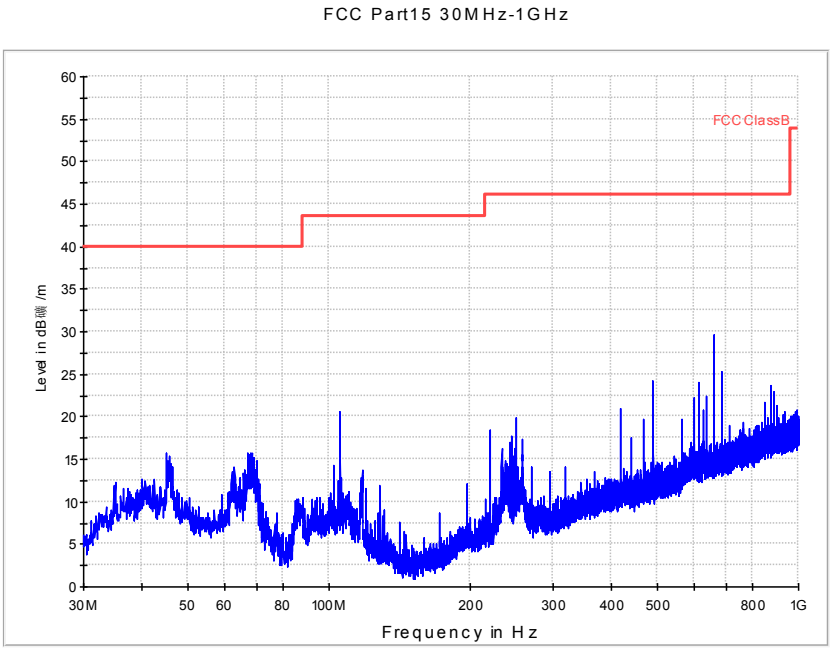

Fig.A.6.2.24 Radiated Spurious Emission (802.11n-HT20, Ch1, 30 MHz-1 GHz)

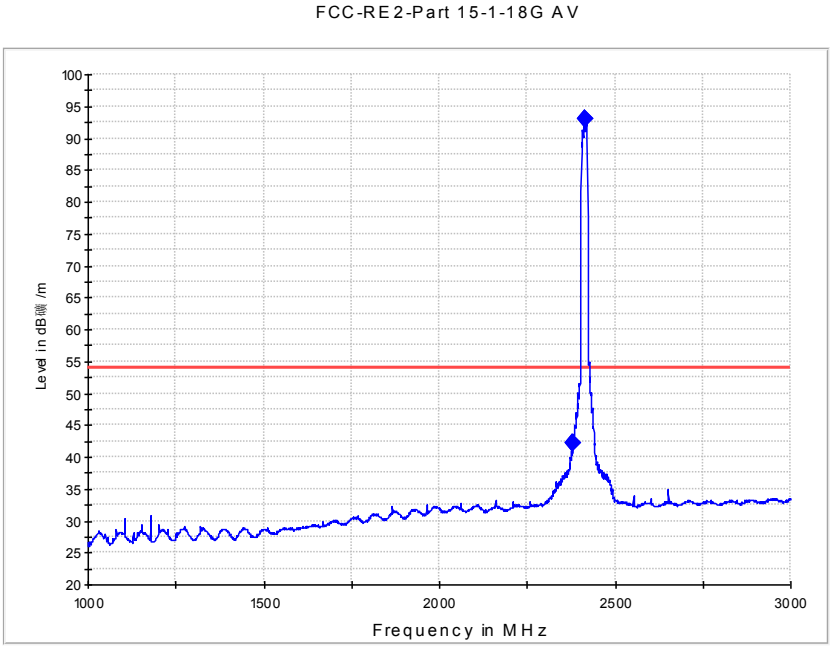

Fig.A.6.2.25 Radiated Spurious Emission (802.11n-HT20, Ch1, 1 GHz-3 GHz)

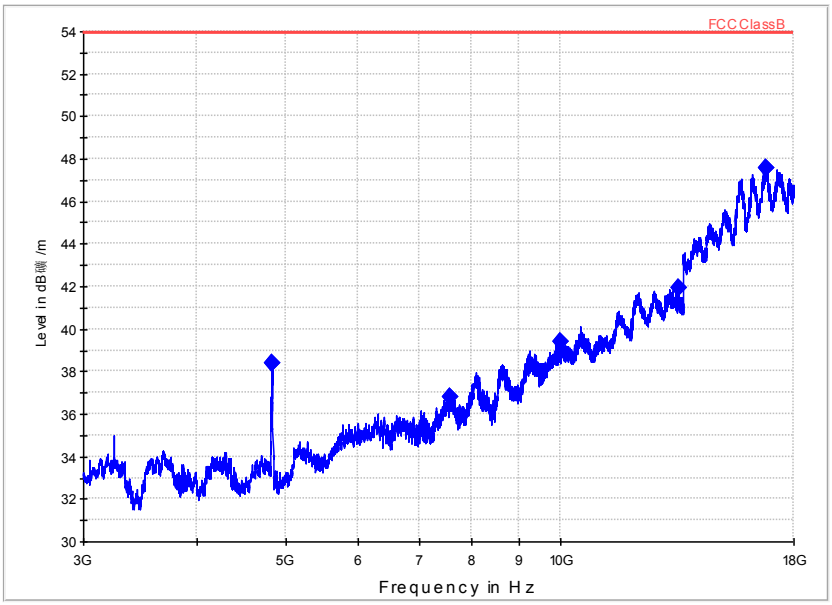

Fig.A.6.2.26 Radiated Spurious Emission (802.11n-HT20, Ch1, 3 GHz-18 GHz)

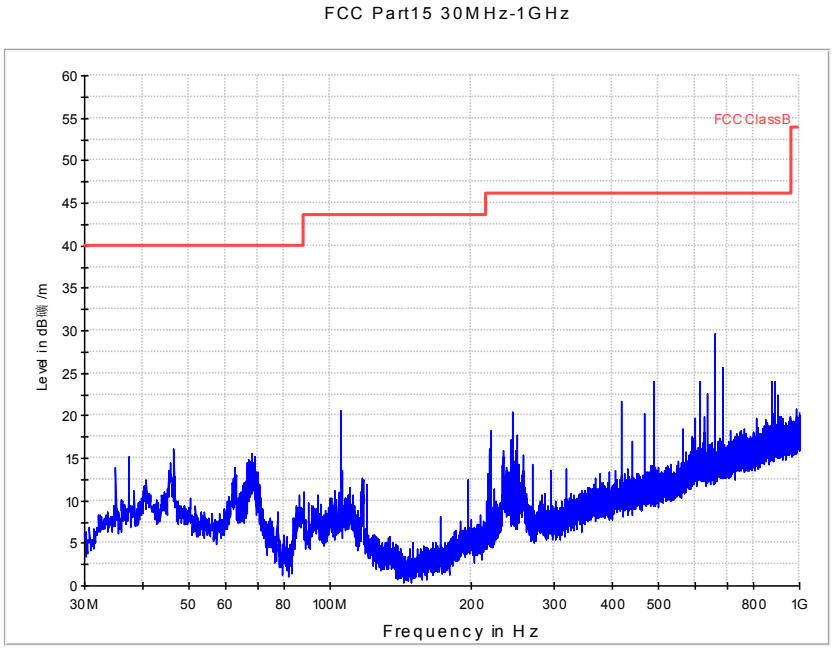

Fig.A.6.2.27 Radiated Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)

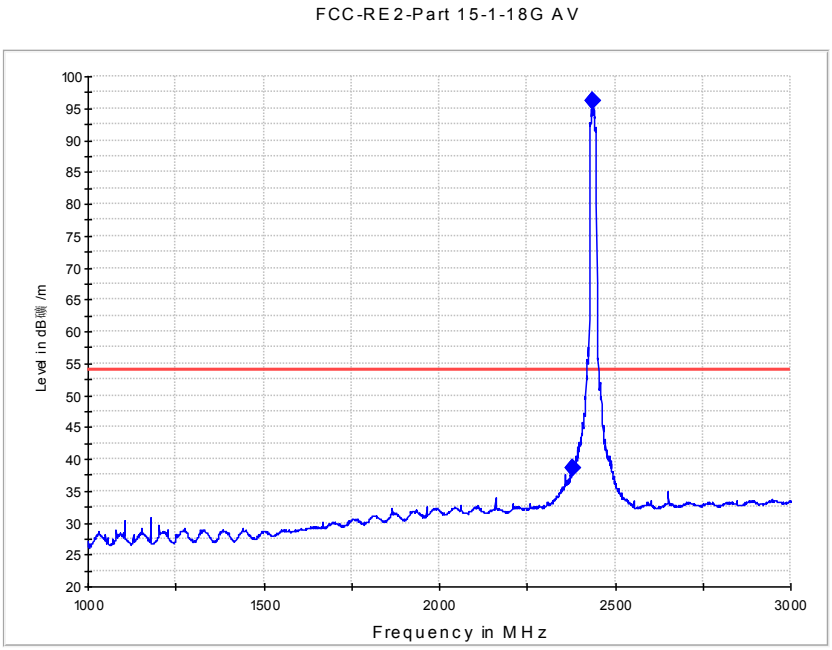

Fig.A.6.2.28 Radiated Spurious Emission (802.11n-HT20, Ch6, 1 GHz-3 GHz)

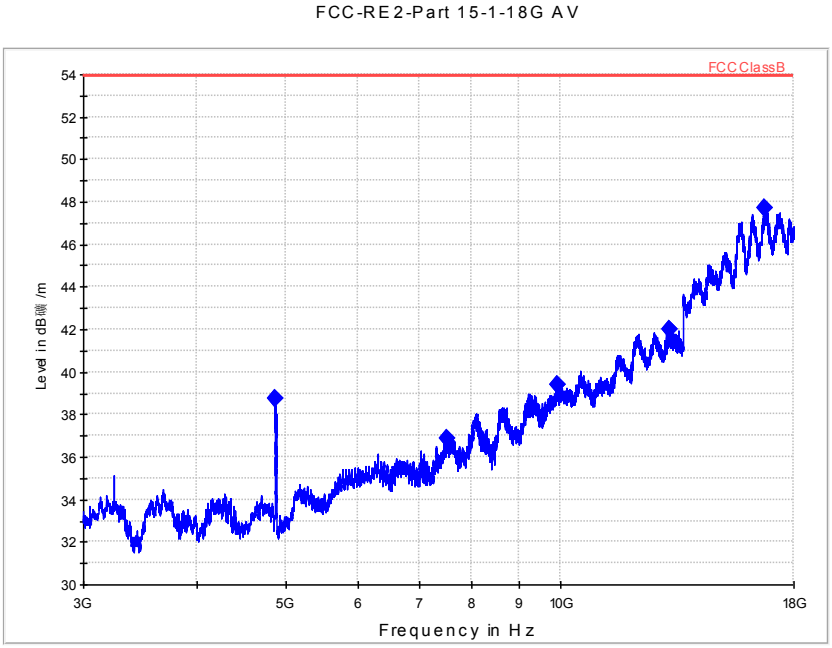

Fig.A.6.2.29 Radiated Spurious Emission (802.11n-HT20, Ch6, 3 GHz-18 GHz)

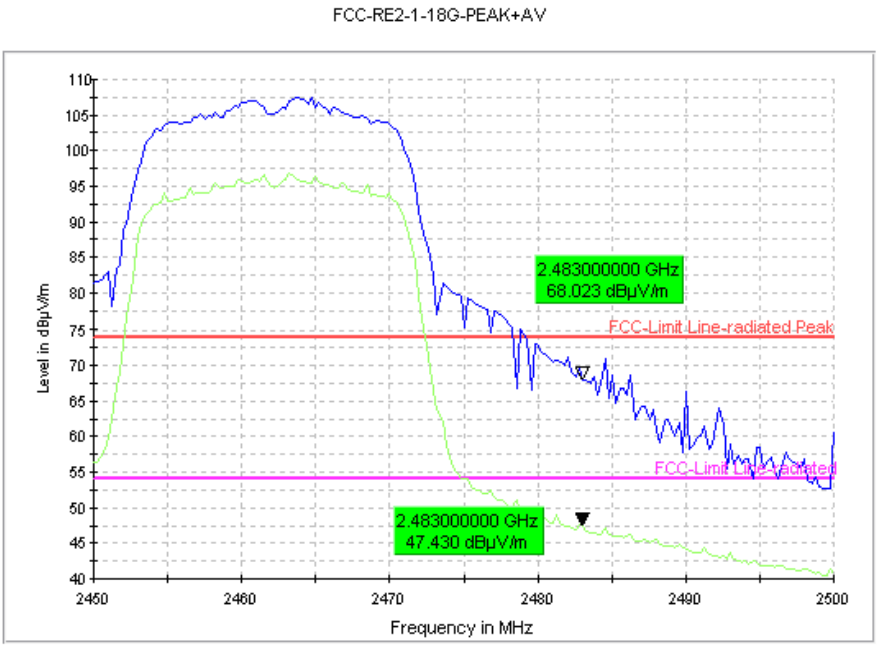

Fig.A.6.2.30 Radiated Spurious Emission (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

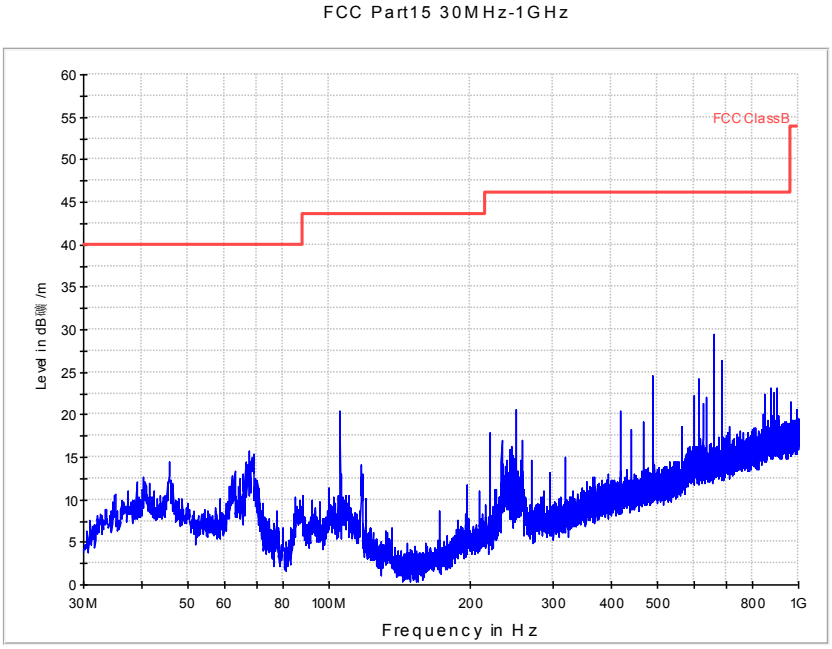

Fig.A.6.2.31 Radiated Spurious Emission (802.11n-HT20, Ch11, 30 MHz-1 GHz)

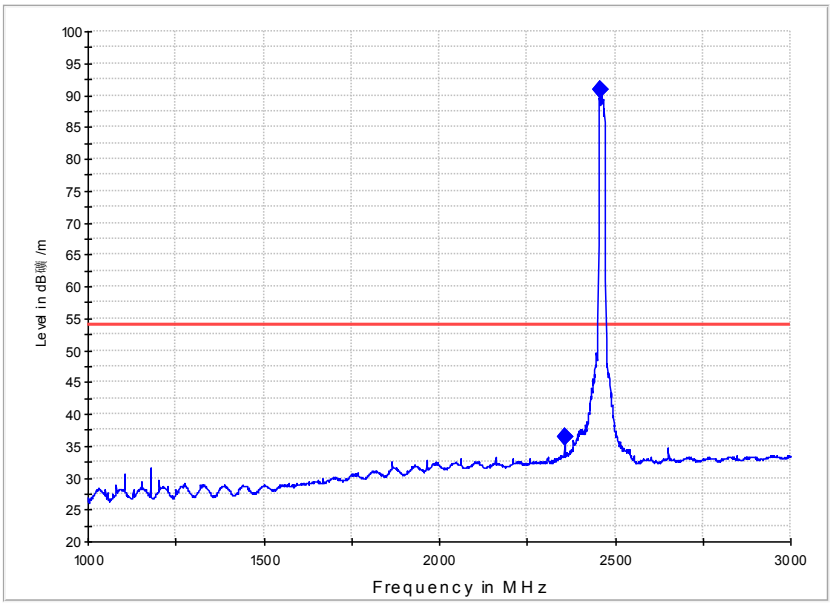

Fig.A.6.2.32 Radiated Spurious Emission (802.11n-HT20, Ch11, 1 GHz-3 GHz)

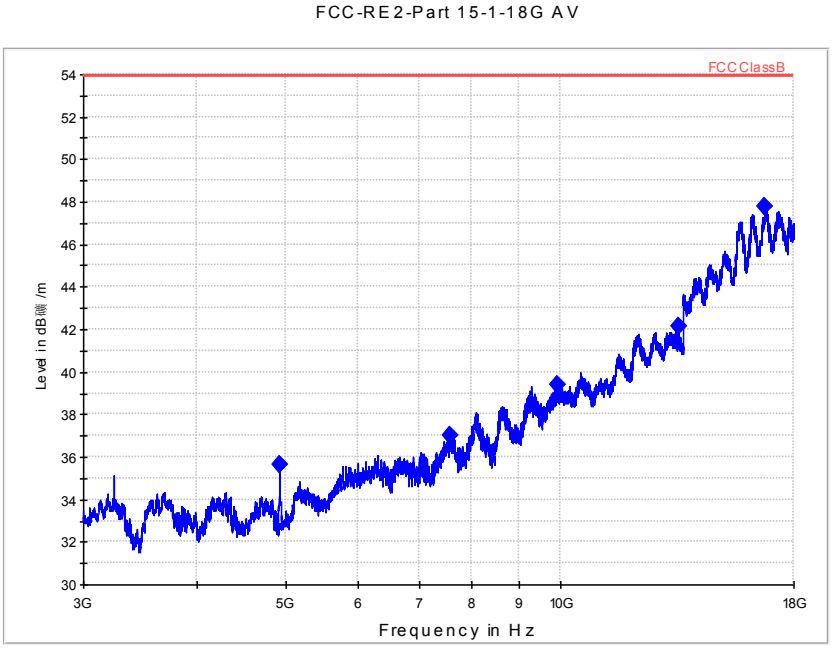

Fig.A.6.2.33 Radiated Spurious Emission (802.11n-HT20, Ch11, 3 GHz-18 GHz)

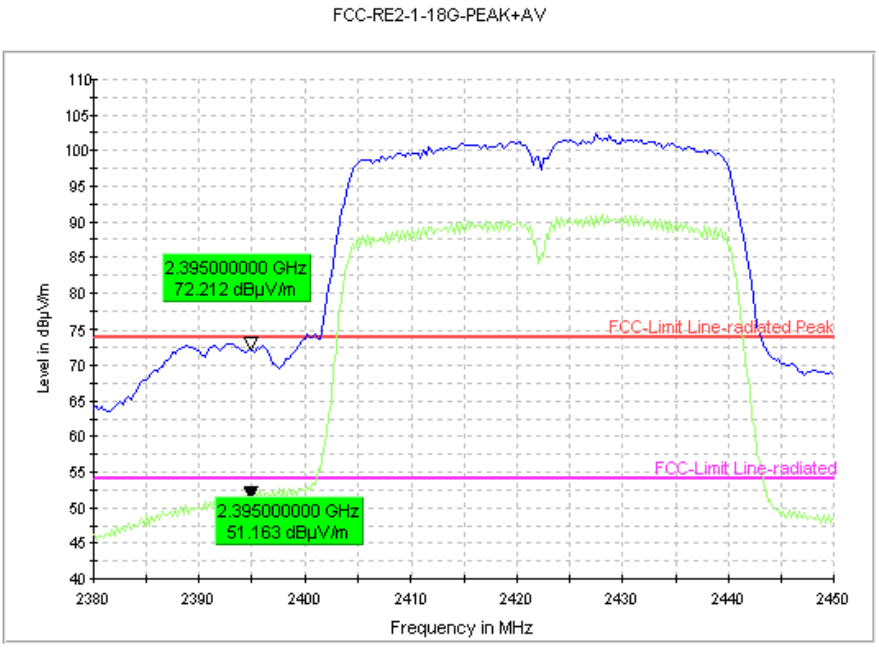

Fig.A.6.2.34 Radiated Spurious Emission (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.45GHz

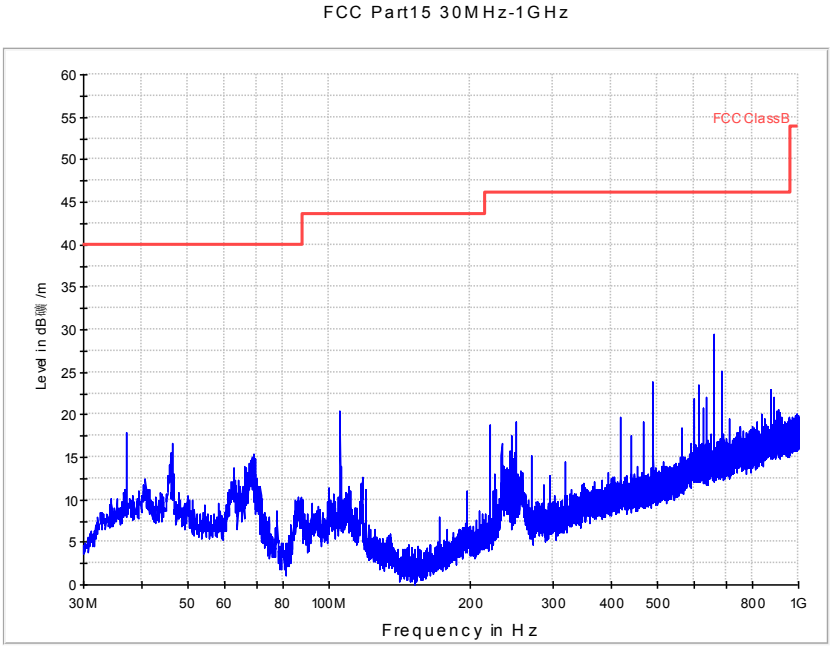

Fig.A.6.2.35 Radiated Spurious Emission (802.11n-HT40, ch3, 30 MHz-1 GHz)

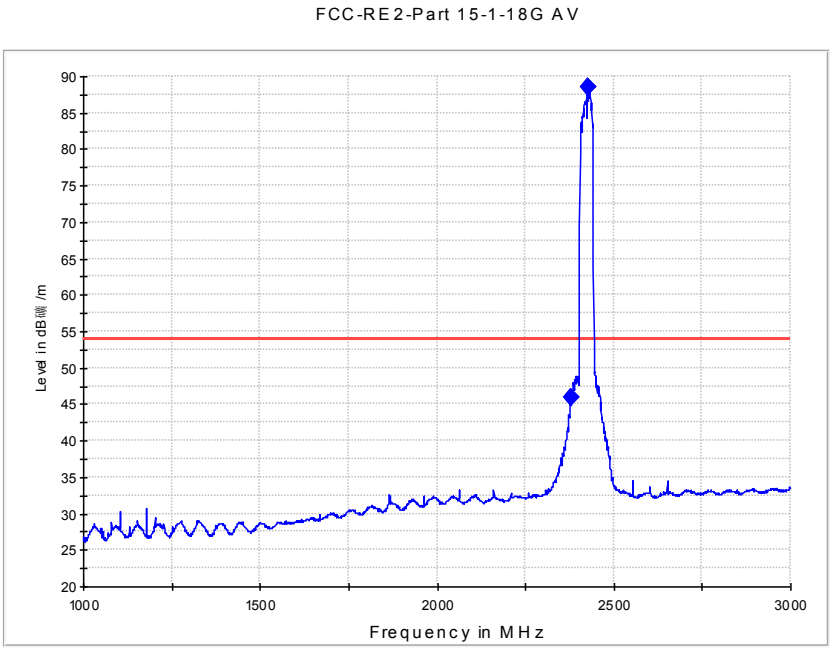

Fig.A.6.2.36 Radiated Spurious Emission (802.11n-HT40, ch3, 1 GHz-3 GHz)

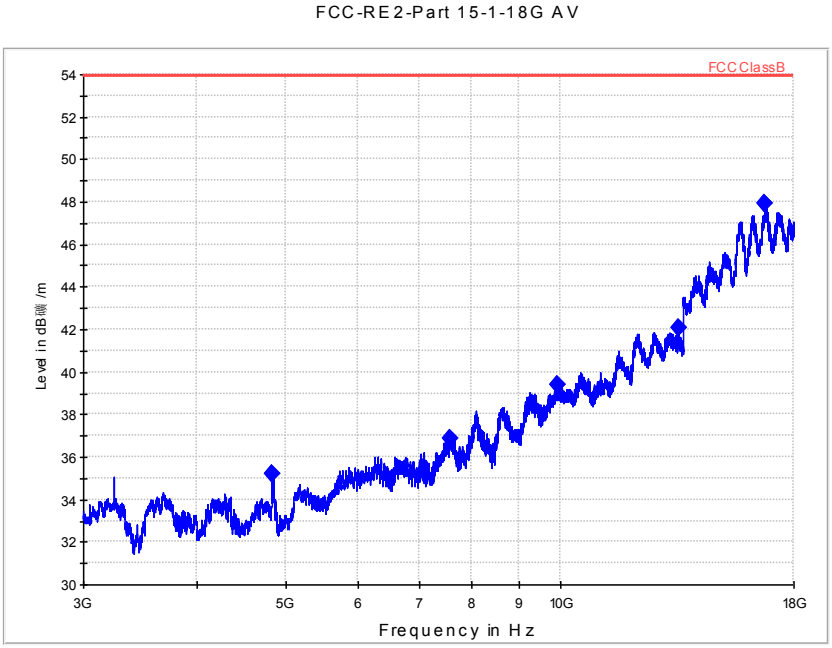

Fig.A.6.2.37 Radiated Spurious Emission (802.11n-HT40, ch3, 3 GHz-18 GHz)

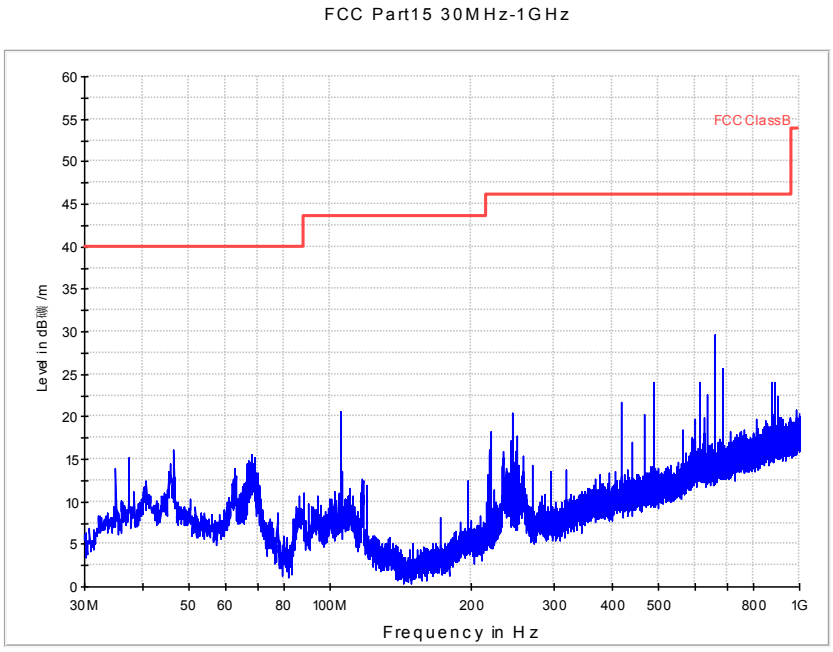

Fig.A.6.2.38 Radiated Spurious Emission (802.11n-HT40, Ch6, 30 MHz-1 GHz)

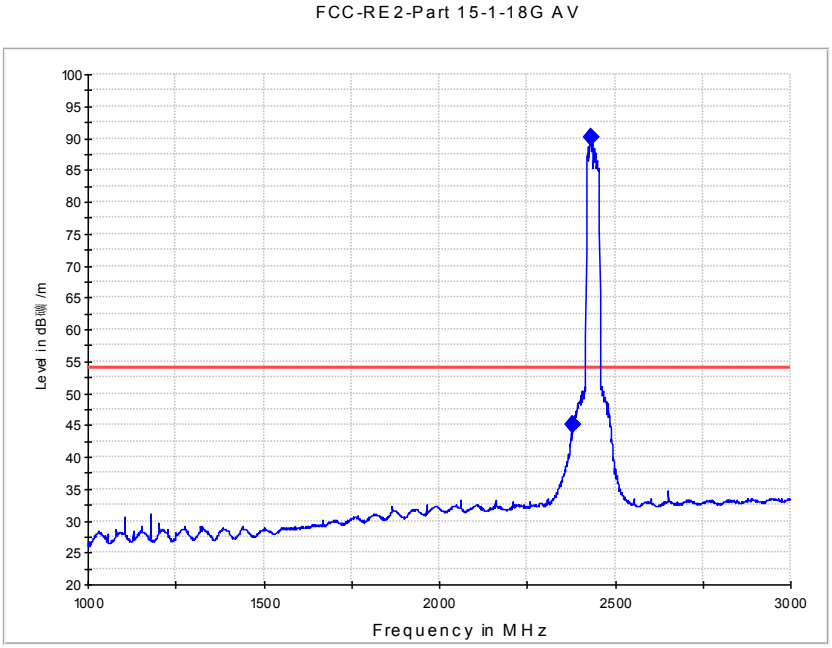

Fig.A.6.2.39 Radiated Spurious Emission (802.11n-HT40, Ch6, 1 GHz-3 GHz)

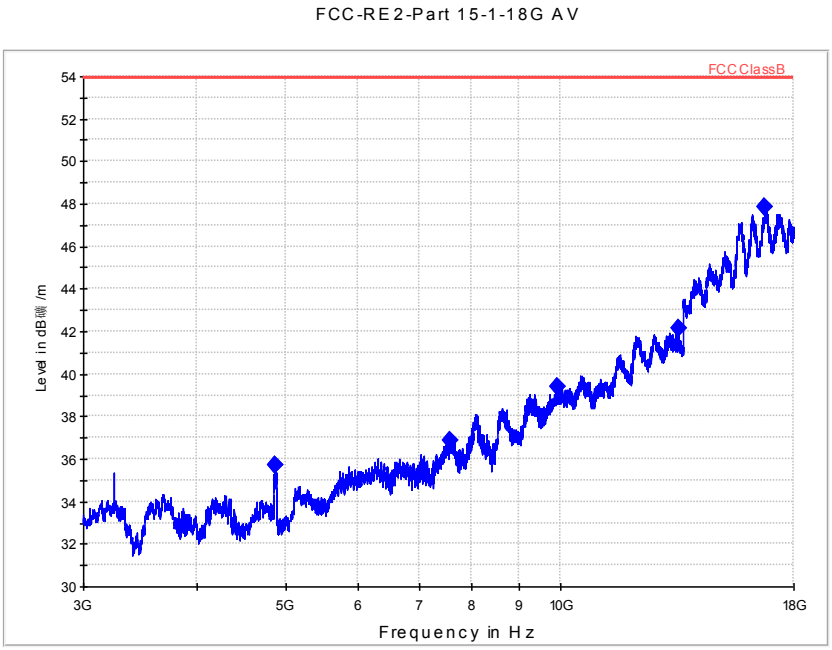

Fig.A.6.2.40 Radiated Spurious Emission (802.11n-HT40, Ch6, 3 GHz-18 GHz)

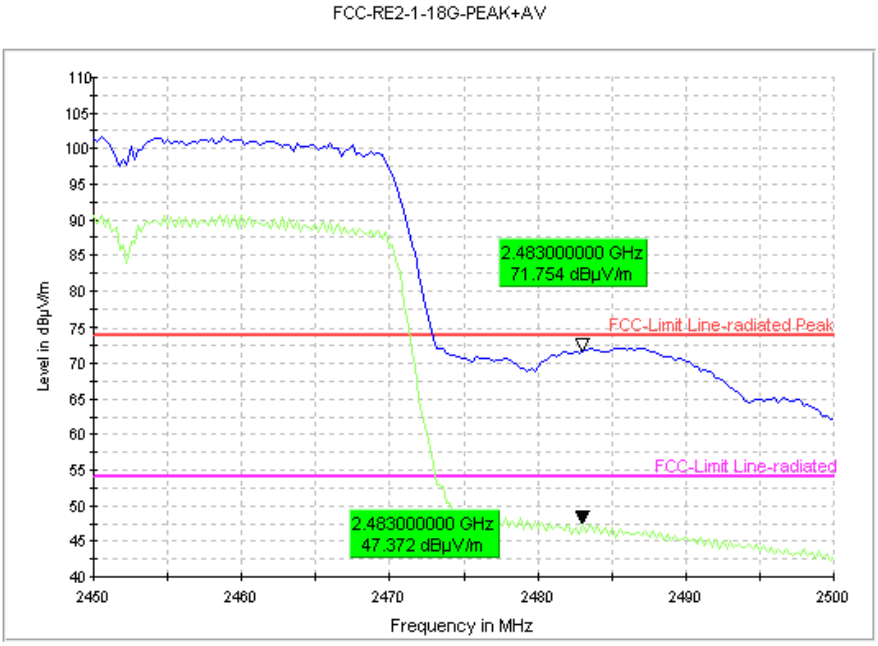

Fig.A.6.2.41 Radiated Spurious Emission (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

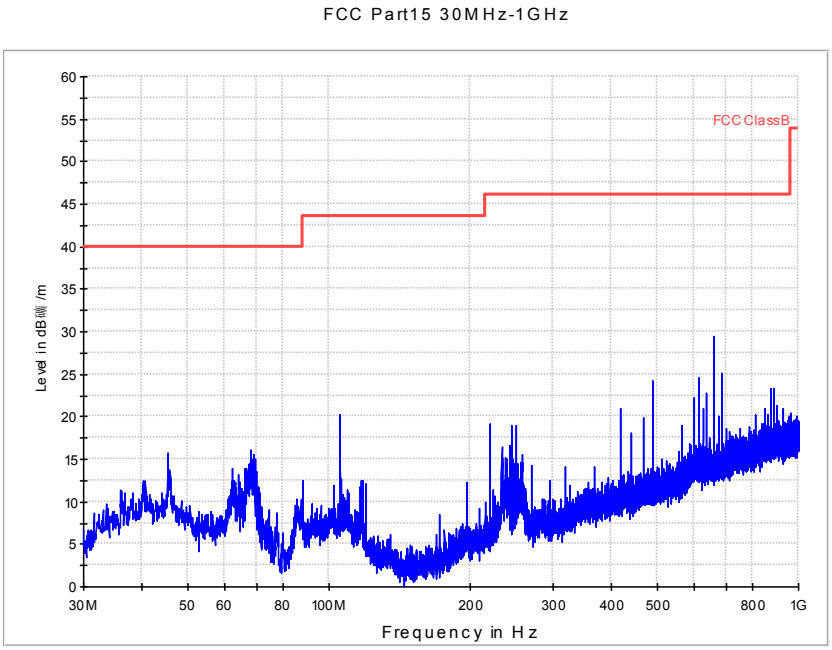

Fig.A.6.2.42 Radiated Spurious Emission (802.11n-HT40, ch9, 30 MHz-1 GHz)

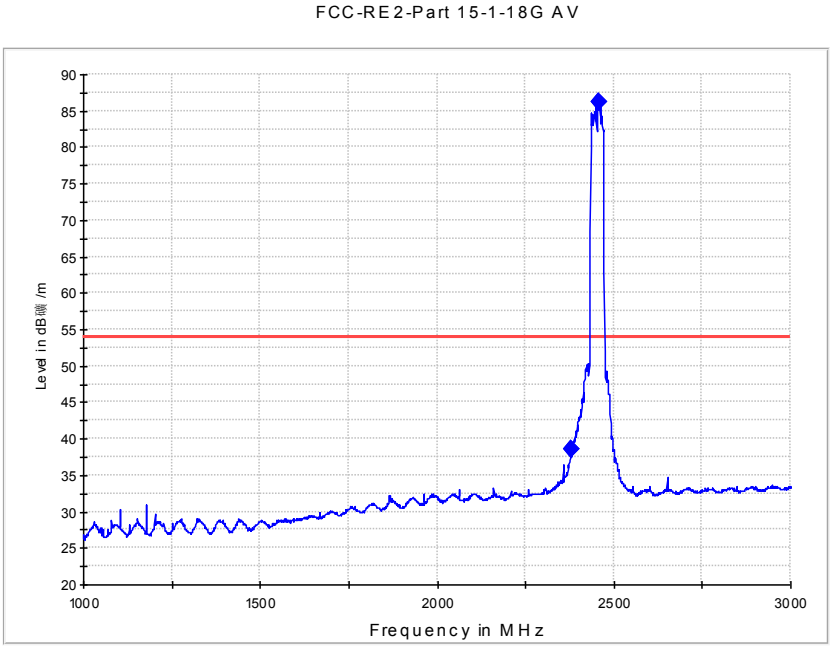

Fig.A.6.2.43 Radiated Spurious Emission (802.11n-HT40, ch9, 1 GHz-3 GHz)

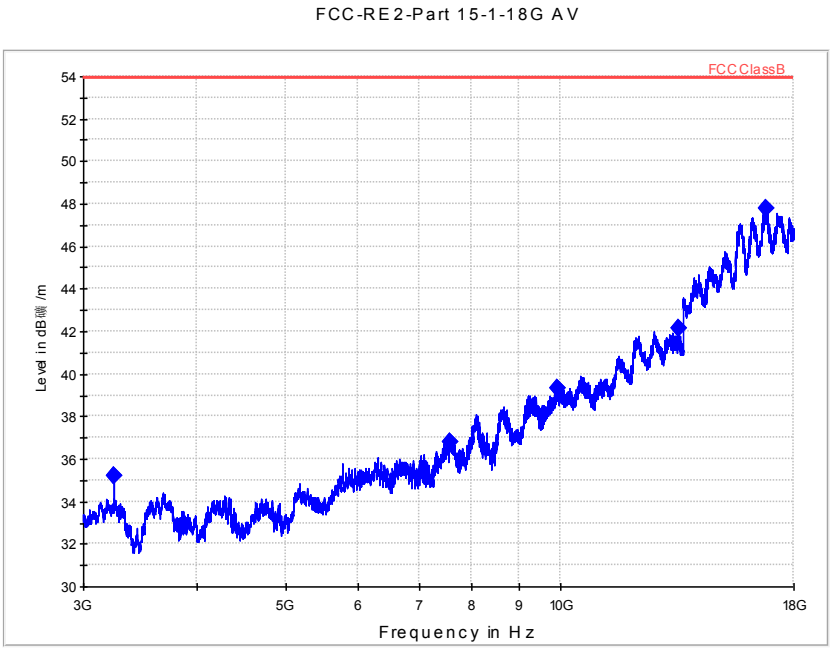

Fig.A.6.2.44 Radiated Spurious Emission (802.11n-HT40, ch9, 3 GHz-18 GHz)

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage（V）	Frequency（Hz）
110	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.7.1	Fig.7.2	P
0.5 to 5	56			
5 to 30	60			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.A.7.1	Fig.A.7.2	P
0.5 to 5	46			
5 to 30	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

The measurement is made according to KDB558074.

Conclusion: Pass

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.2dB, k=2.

Test graphs as below:

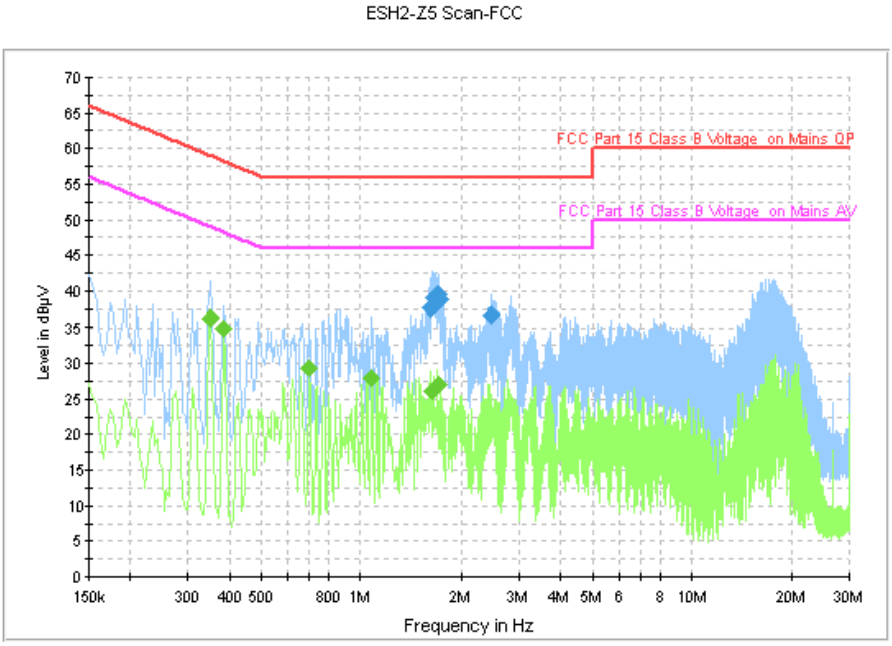

Fig.A.7.1 AC Powerline Conducted Emission-802.11b

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.610000	37.7	FLO	L1	10.1	18.3	56.0
1.650000	39.0	FLO	L1	10.1	17.0	56.0
1.686000	39.5	FLO	L1	10.1	16.5	56.0
1.702000	39.5	FLO	L1	10.1	16.5	56.0
1.726000	38.9	FLO	L1	10.1	17.1	56.0
2.454000	36.7	FLO	L1	10.1	19.3	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.350000	36.3	FLO	L1	10.0	12.6	49.0
0.386000	34.8	FLO	L1	10.0	13.3	48.1
0.698000	29.2	FLO	L1	10.0	16.8	46.0
1.082000	28.0	FLO	L1	10.1	18.0	46.0
1.634000	26.2	FLO	L1	10.1	19.8	46.0
1.702000	27.1	FLO	L1	10.1	18.9	46.0

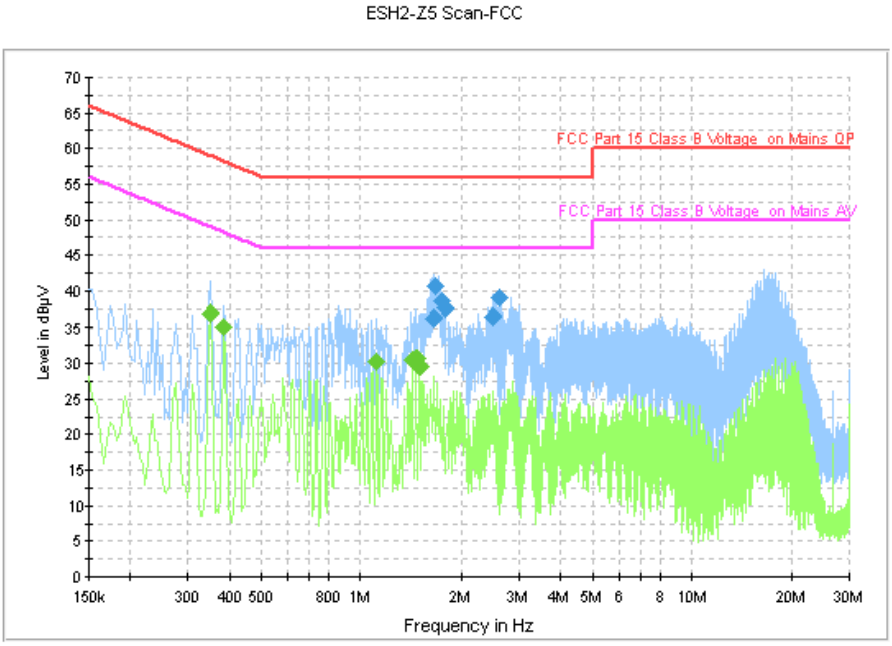

Fig.A.7.2 AC Powerline Conducted Emission-Idle

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.650000	36.2	FLO	L1	10.1	19.8	56.0
1.666000	40.7	FLO	L1	10.1	15.3	56.0
1.742000	38.5	FLO	L1	10.1	17.5	56.0
1.786000	37.7	FLO	L1	10.1	18.3	56.0
2.494000	36.4	FLO	L1	10.2	19.6	56.0
2.598000	38.9	FLO	L1	10.2	17.1	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.350000	36.9	FLO	L1	10.0	12.1	49.0
0.386000	35.1	FLO	L1	10.0	13.0	48.1
1.122000	30.3	FLO	L1	10.1	15.7	46.0
1.434000	30.4	FLO	L1	10.1	15.6	46.0
1.470000	30.7	FLO	L1	10.1	15.3	46.0
1.510000	29.6	FLO	L1	10.1	16.4	46.0

***** END OF REPORT BODY *****