

Normal RE_18G-26.5GHz

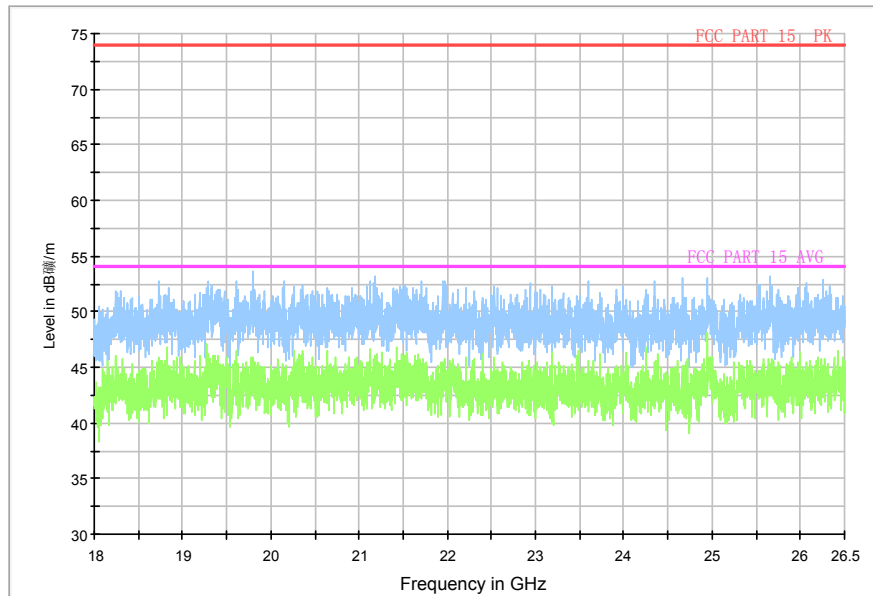


Fig.A.6.2.7 Radiated Spurious Emission (802.11b, Ch6, 18GHz – 26.5GHz)

RE-Power_2.45G-2.5GHz

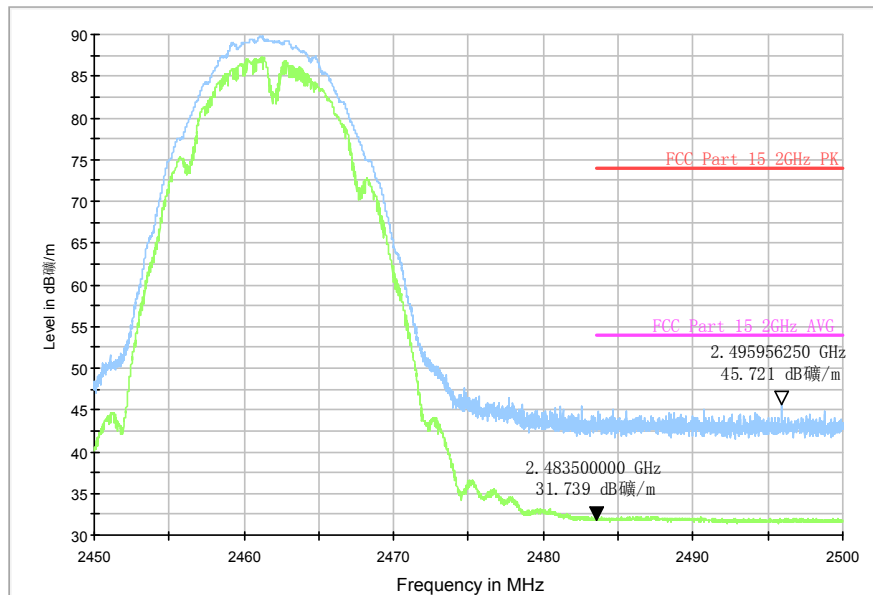


Fig.A.6.2.8 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

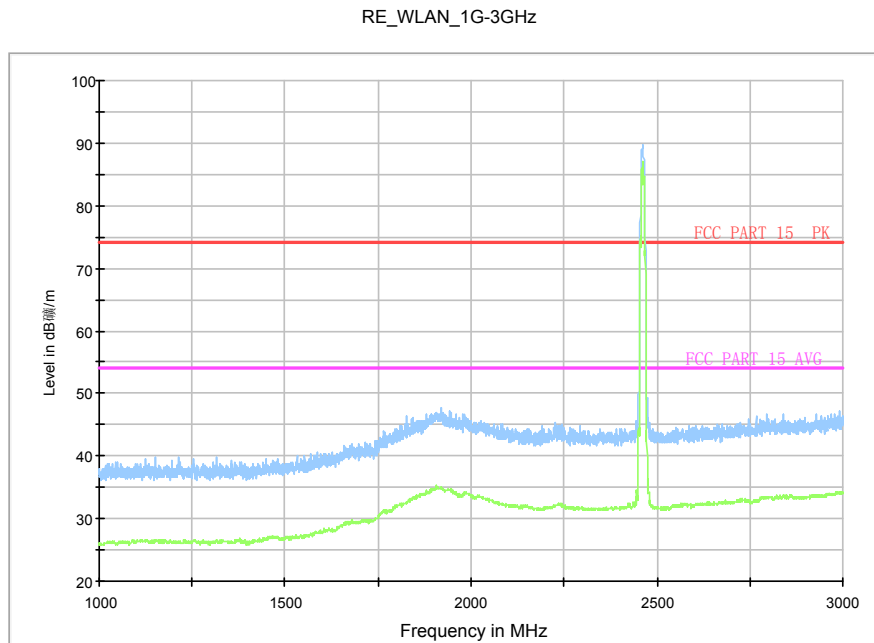


Fig.A.6.2.9 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-3 GHz)

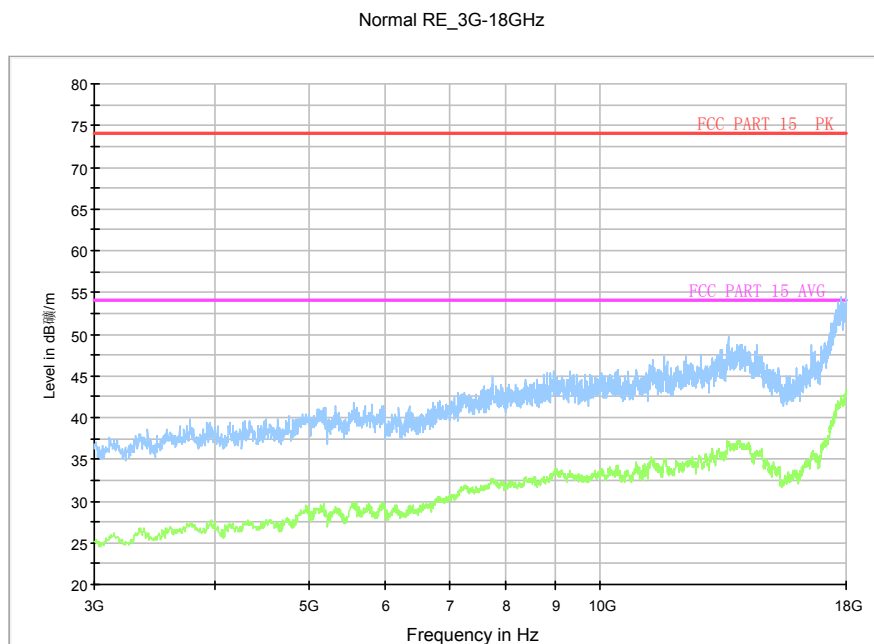


Fig.A.6.2.10 Radiated Spurious Emission (802.11b, Ch11, 3 GHz-18 GHz)

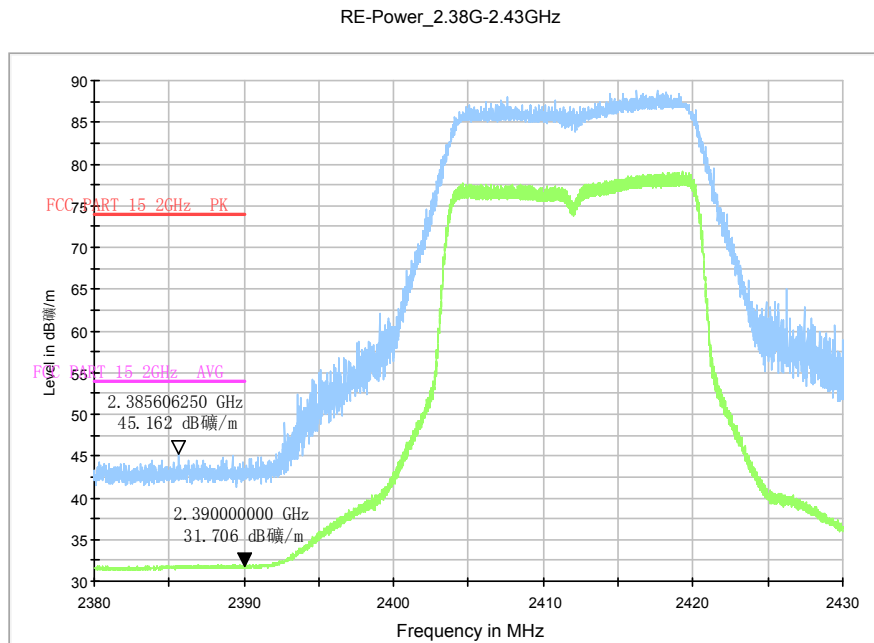


Fig.A.6.2.11 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

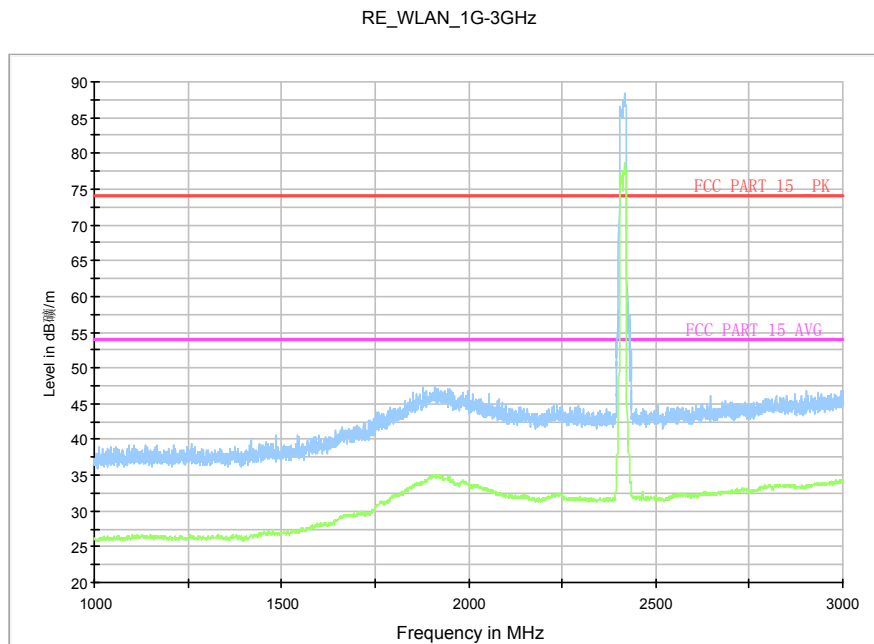


Fig.A.6.2.12 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-3 GHz)

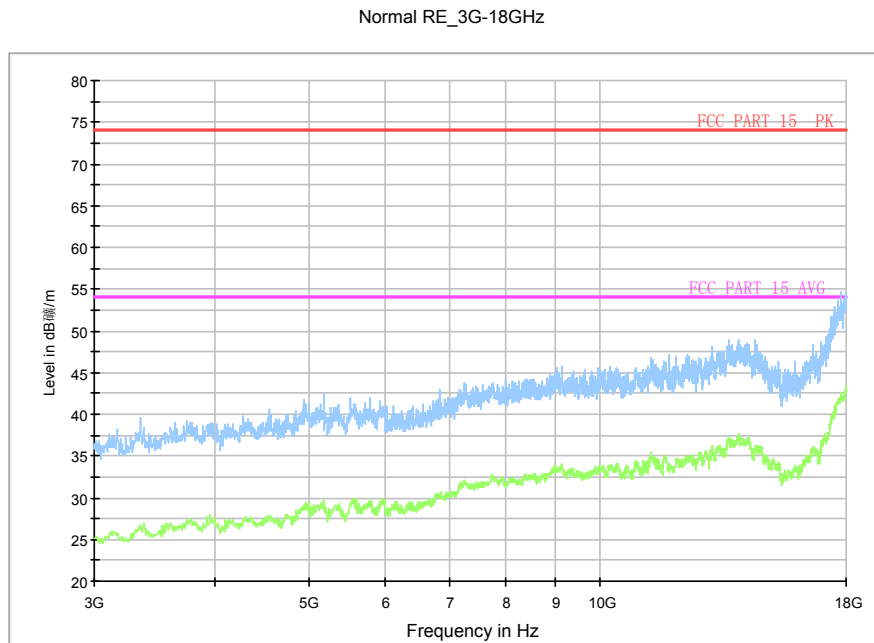


Fig.A.6.2.13 Radiated Spurious Emission (802.11g, Ch1, 3 GHz-18 GHz)

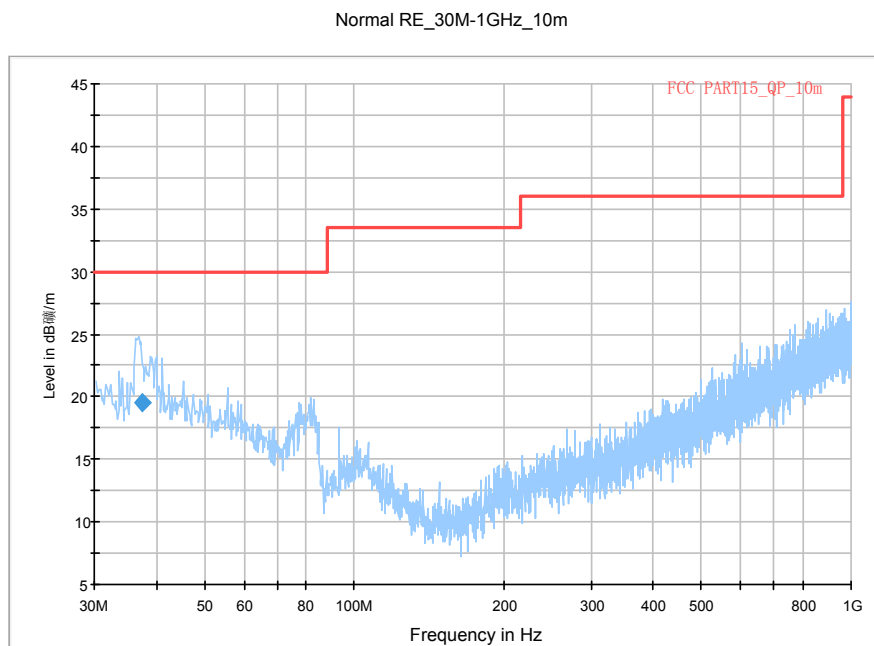


Fig.A.6.2.14 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)

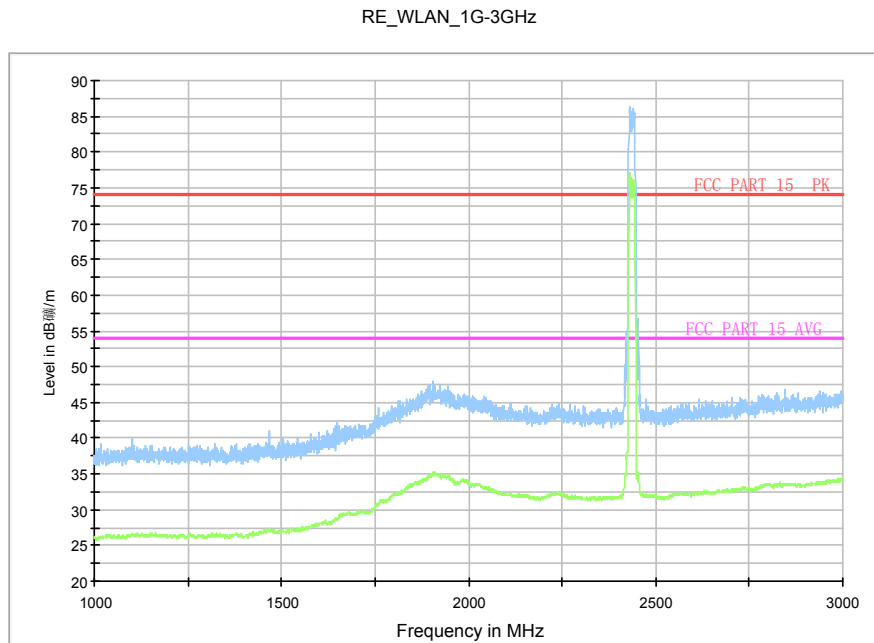


Fig.A.6.2.15 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-3 GHz)

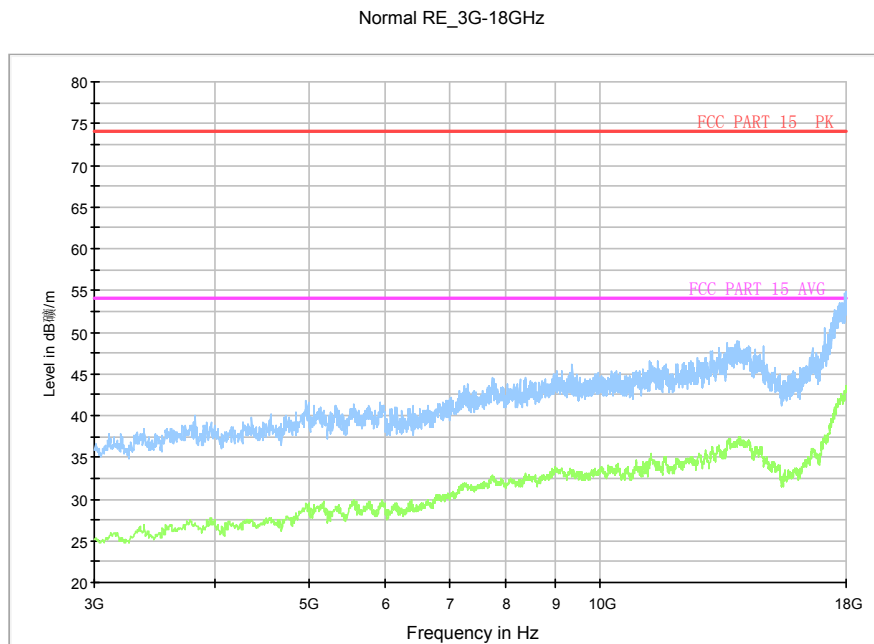


Fig.A.6.2.16 Radiated Spurious Emission (802.11g, Ch6, 3 GHz-18 GHz)

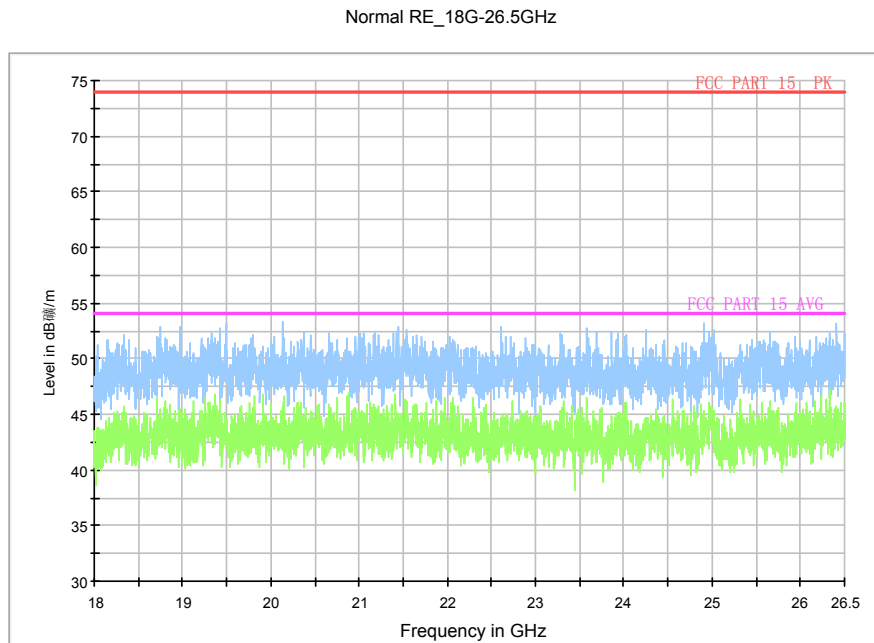


Fig.A.6.2.17 Radiated Spurious Emission (802.11g, Ch6, 18GHz – 26.5GHz)

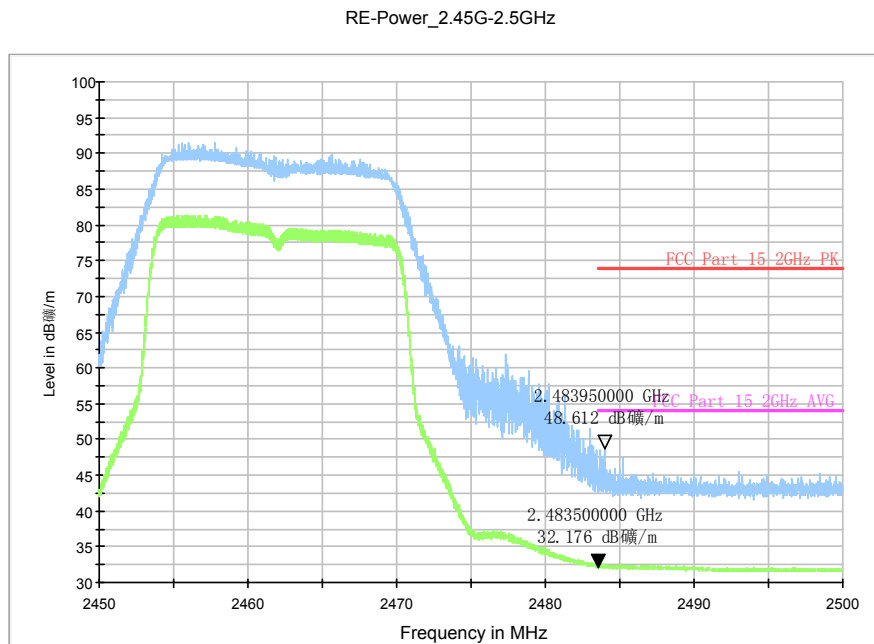


Fig.A.6.2.18 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

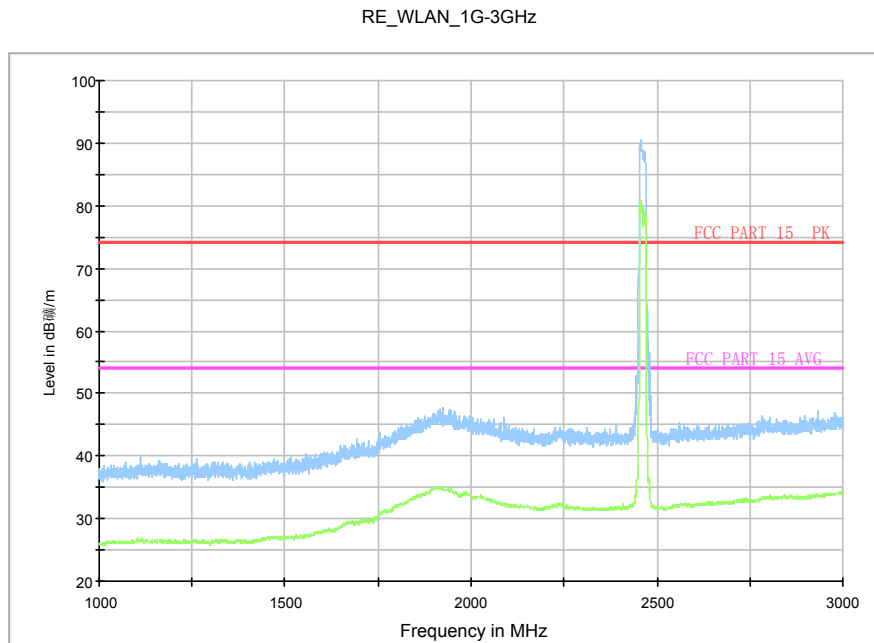


Fig.A.6.2.19 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-3 GHz)

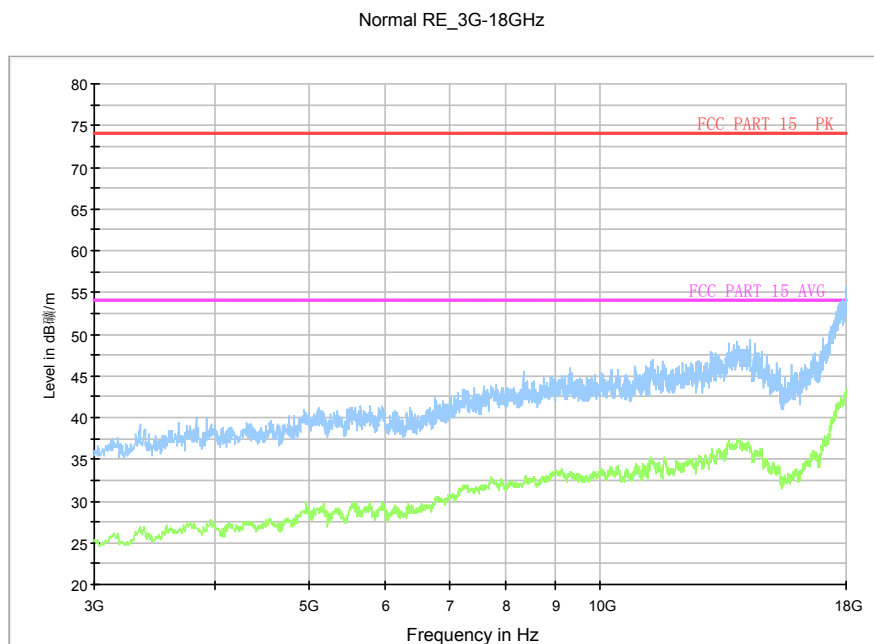


Fig.A.6.2.20 Radiated Spurious Emission (802.11g, Ch11, 3 GHz-18 GHz)

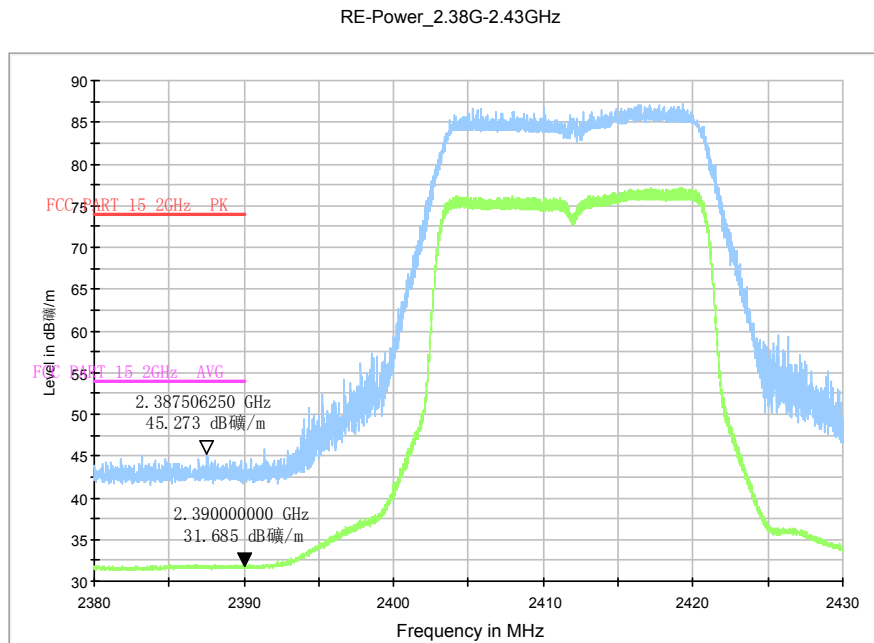


Fig.A.6.2.21 Radiated Spurious Emission (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

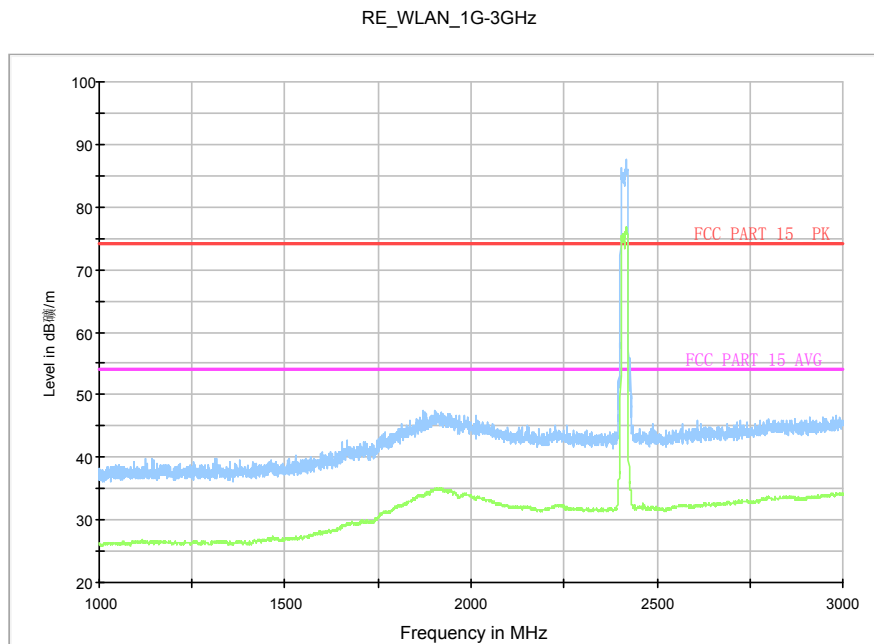


Fig.A.6.2.22 Radiated Spurious Emission (802.11n-HT20, Ch1, 1 GHz-3 GHz)

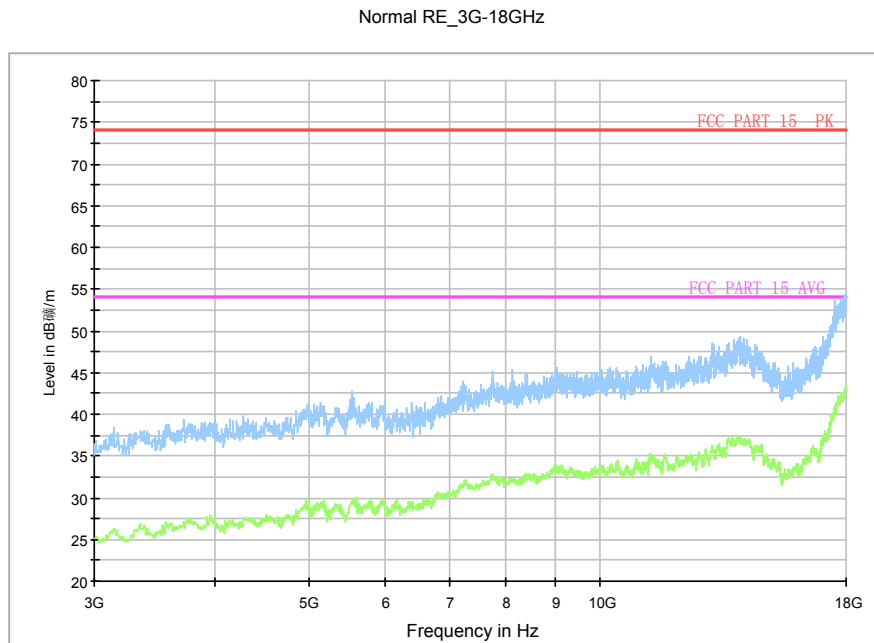


Fig.A.6.2.23 Radiated Spurious Emission (802.11n-HT20, Ch1, 3 GHz-18 GHz)

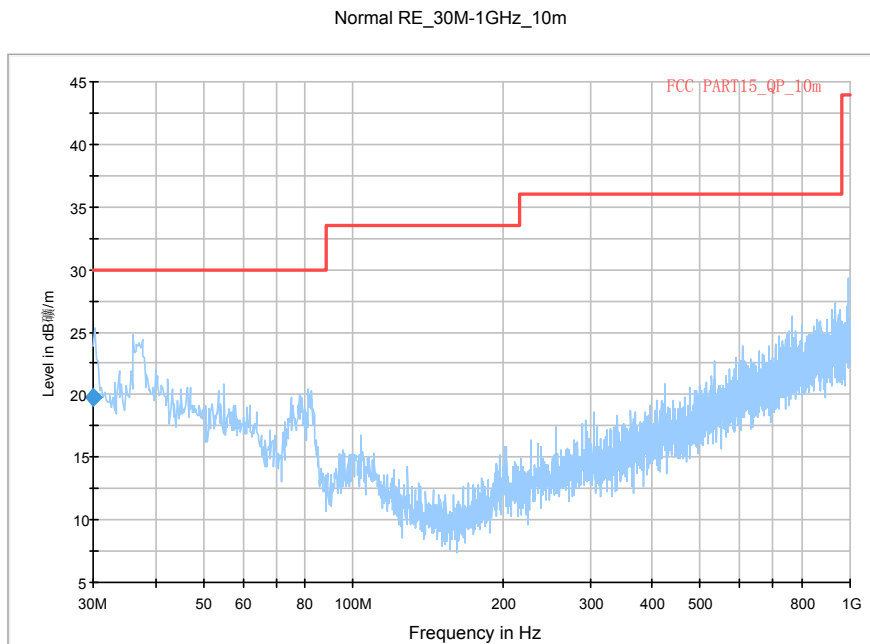


Fig.A.6.2.24 Radiated Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)

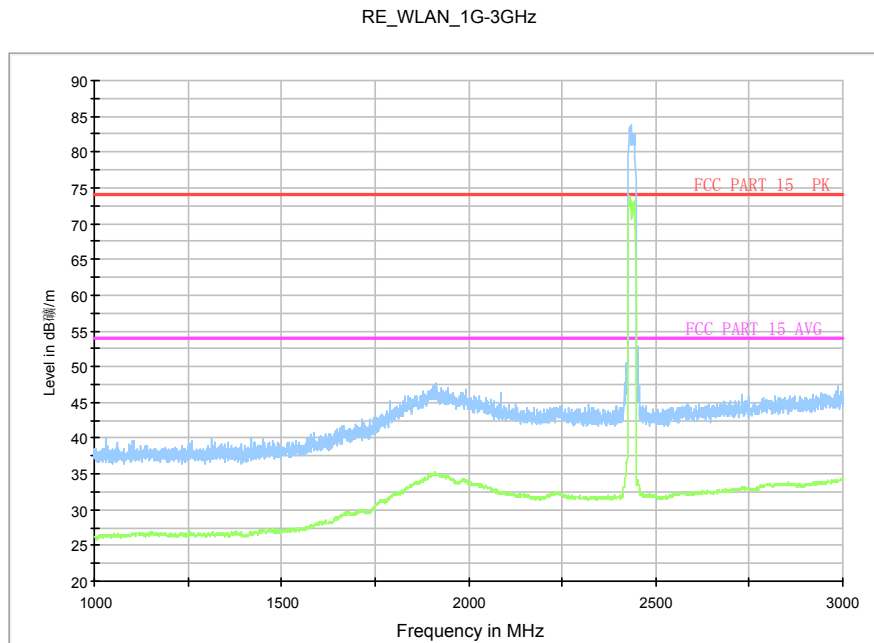


Fig.A.6.2.25 Radiated Spurious Emission (802.11n-HT20, Ch6, 1 GHz-3 GHz)

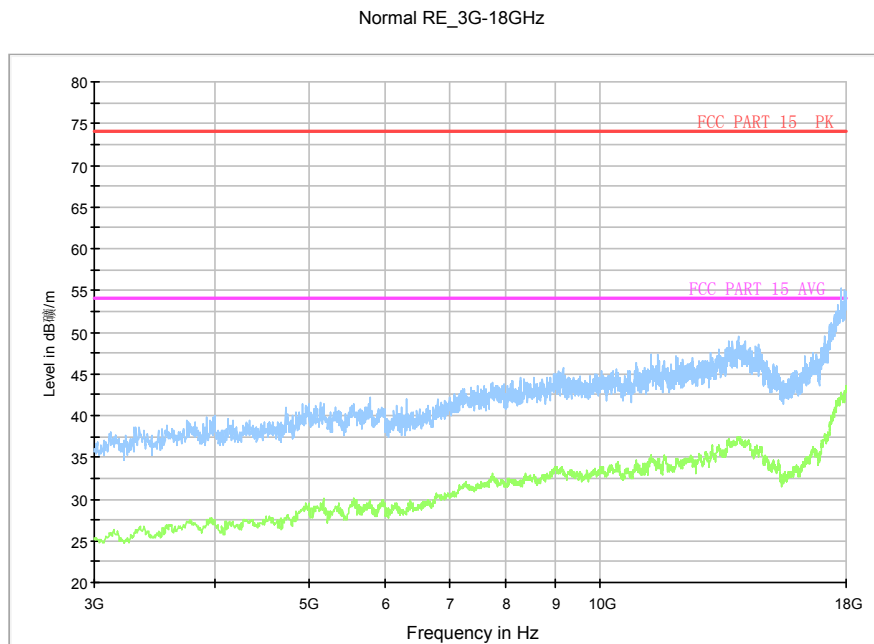


Fig.A.6.2.26 Radiated Spurious Emission (802.11n-HT20, Ch6, 3 GHz-18 GHz)

Normal RE_18G-26.5GHz

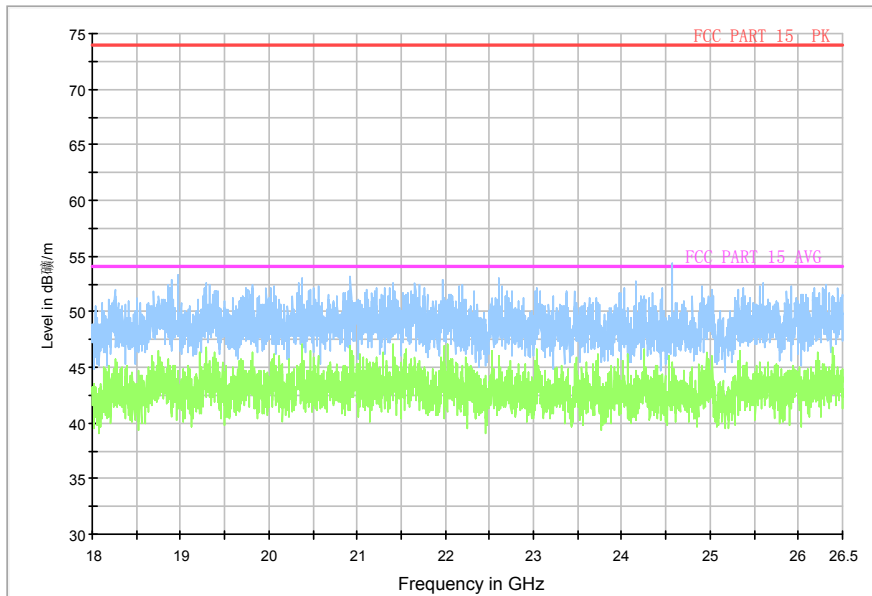


Fig.A.6.2.27 Radiated Spurious Emission (802.11n-HT20, Ch6, 18GHz – 26.5GHz)

RE-Power_2.45G-2.5GHz

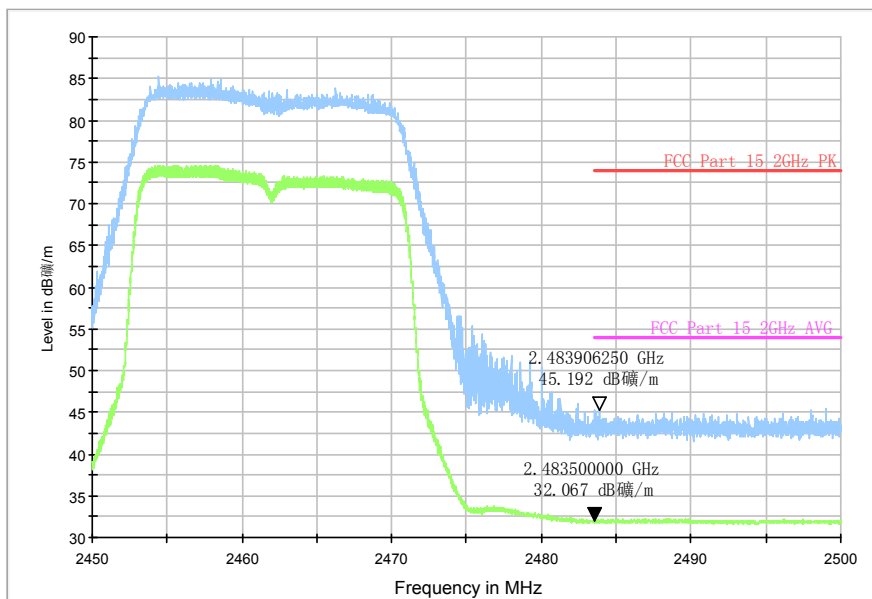


Fig.A.6.2.28 Radiated Spurious Emission (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

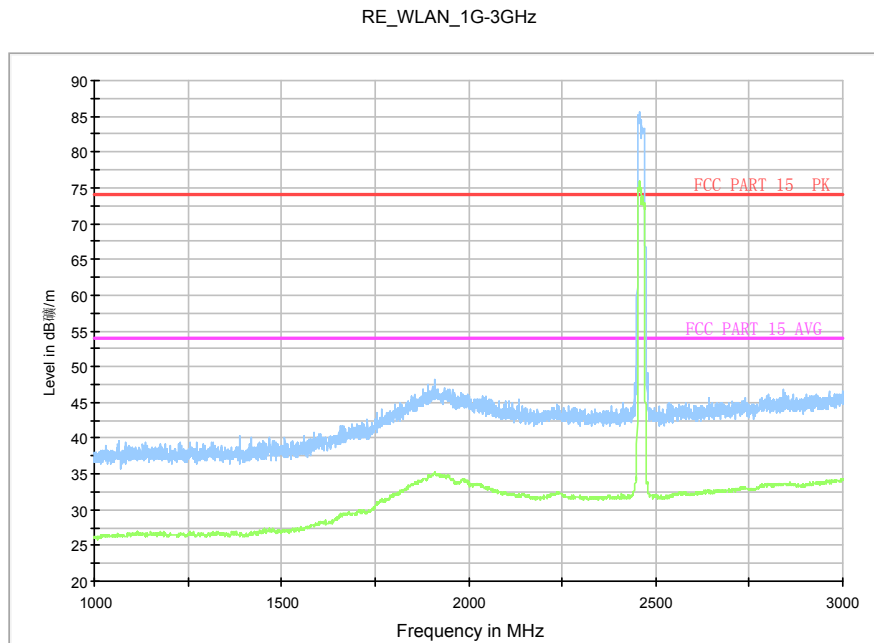


Fig.A.6.2.29 Radiated Spurious Emission (802.11n-HT20, Ch11, 1 GHz-3 GHz)

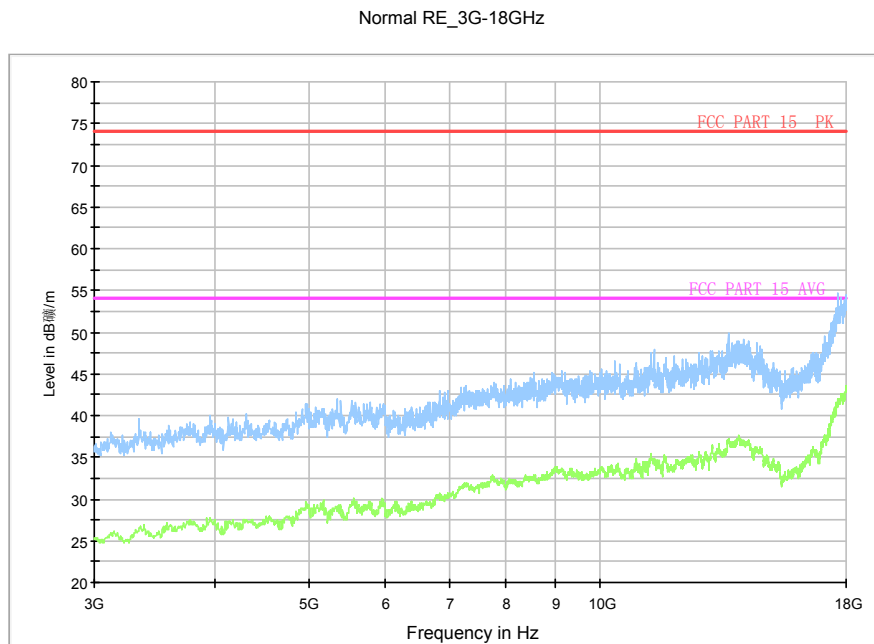


Fig.A.6.2.30 Radiated Spurious Emission (802.11n-HT20, Ch11, 3 GHz-18 GHz)

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		With charger	
		802.11b	
0.15 to 0.5	66 to 56	Fig.A.7.1	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 (dB μ V)	Result (dB μ V)	Conclusion
		With charger	
		802.11b	
0.15 to 0.5	56 to 46	Fig.A.7.1	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.

Conclusion: Pass

Measurement uncertainty:

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

Test graphs as below:

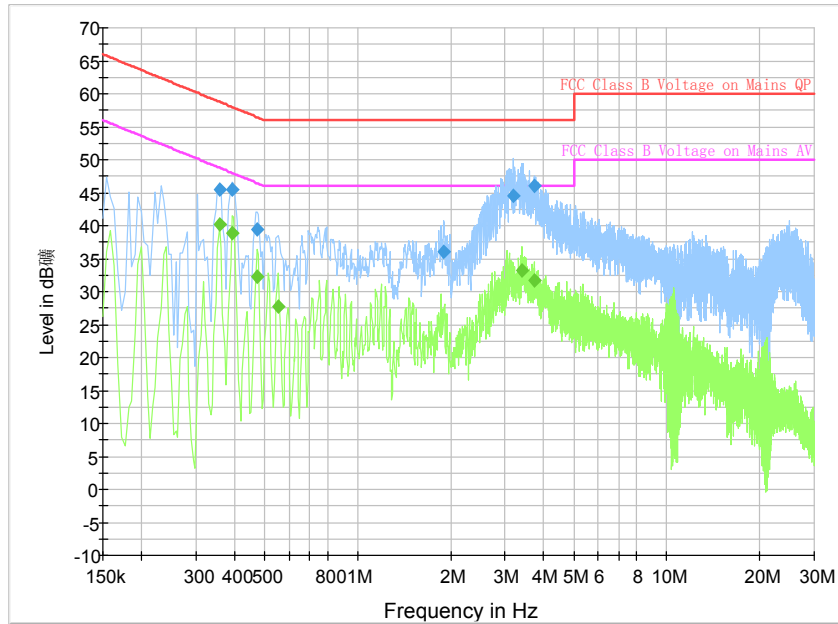


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

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)
0.357000	45.4	GND	L1	9.8	13.4	58.8
0.393000	45.5	GND	L1	9.8	12.5	58.0
0.474000	39.4	GND	L1	9.8	17.1	56.4
1.891500	36.1	GND	L1	9.7	19.9	56.0
3.178500	44.6	GND	L1	9.7	11.4	56.0
3.718500	46.1	GND	L1	9.7	9.9	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.357000	40.2	GND	L1	9.8	8.6	48.8
0.393000	38.8	GND	L1	9.8	9.2	48.0
0.474000	32.2	GND	L1	9.8	14.2	46.4
0.555000	27.7	GND	L1	9.8	18.3	46.0
3.403500	33.2	GND	L1	9.7	12.8	46.0
3.718500	31.8	GND	L1	9.7	14.2	46.0

A.8. Spurious Emissions Radiated < 30MHz

Measurement Limit:

Frequency (MHz)	Field strength($\mu\text{V}/\text{m}$)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Measurement Results:

Mode	Frequency Range	Test Results	Conclusion
802.11b	9 kHz ~30 MHz	Fig.A.8.1	P

Conclusion: PASS

Test graphs as below:

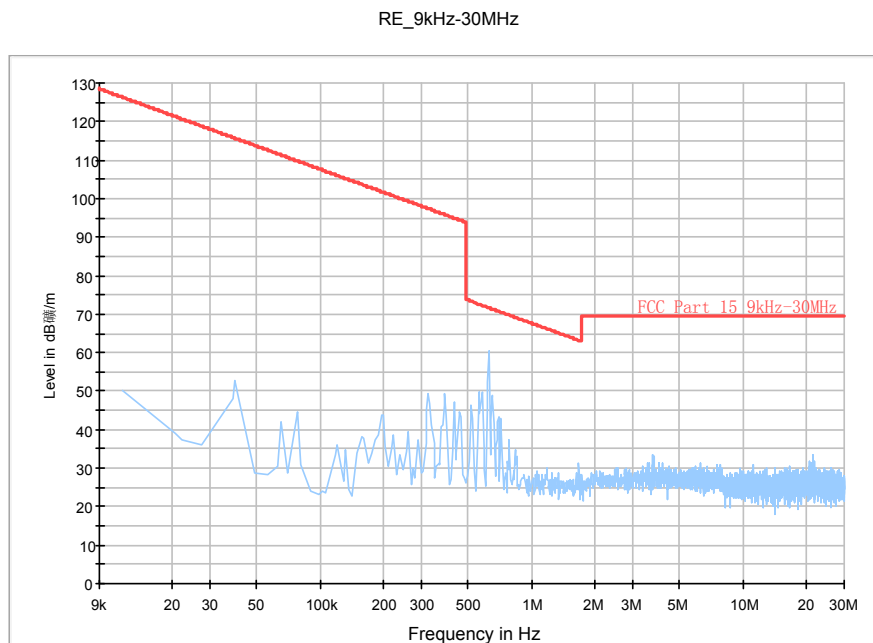


Fig.A.8.1 Radiated Spurious Emission (802.11b, 9 kHz ~30 MHz)

A.9. 99% Occupied Channel Bandwidth

Reference : RSS-Gen 4.6.1

EUT ID: EUT2

Modulation type and data rate tested:

802.11b	802.11g	802.11n-HT20
11Mbps(CCK)	54Mbps(OFDM)	MCS5(OFDM)

Measurement Result:

802.11b/g mode

Mode	Channel	Occupied Bandwidth (MHz)		conclusion
802.11b	1	Fig.A.9.1	12.69	P
	6	Fig.A.9.2	12.56	P
	11	Fig.A.9.3	12.69	P
802.11g	1	Fig.A.9.4	17.82	P
	6	Fig.A.9.5	17.82	P
	11	Fig.A.9.6	17.69	P

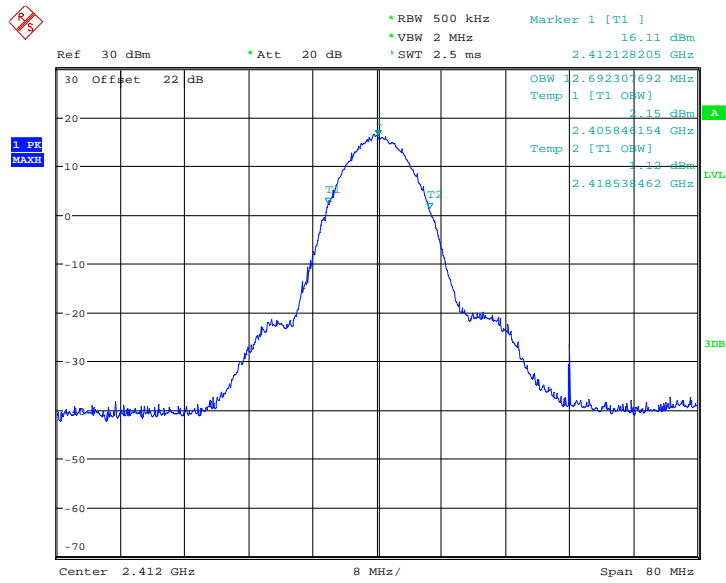
802.11n-HT20 mode

Mode	Channel	Occupied Bandwidth (MHz)		conclusion
802.11n (HT20)	1	Fig.A.9.7	18.59	P
	6	Fig.A.9.8	18.59	P
	11	Fig.A.9.9	18.59	P

Conclusion: **PASS**

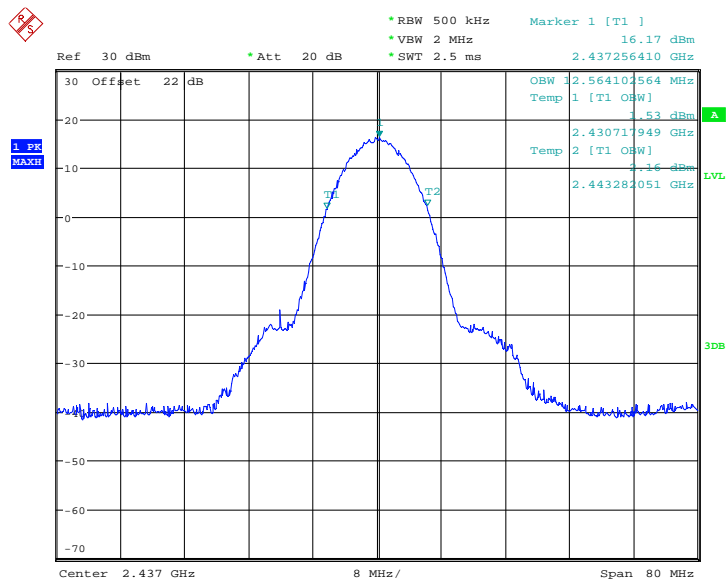
Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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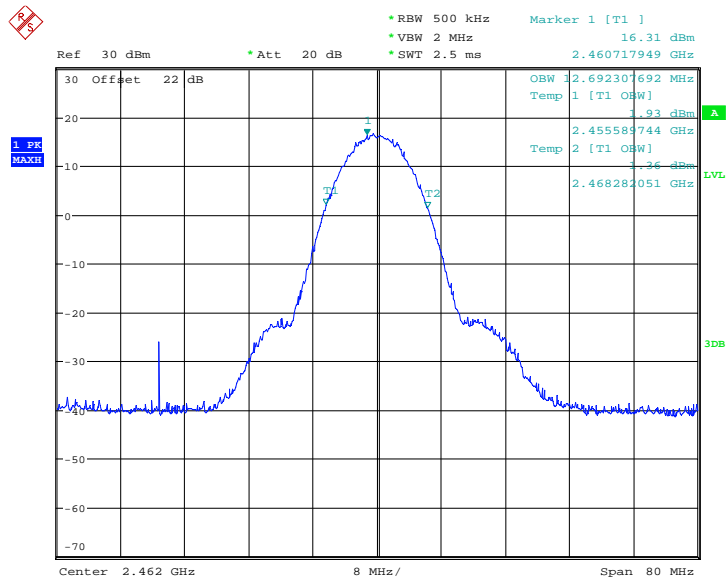
Date: 19.JUN.2014 13:18:08

Fig.A.9.1 99% Occupied Bandwidth: (802.11b, Ch 1)



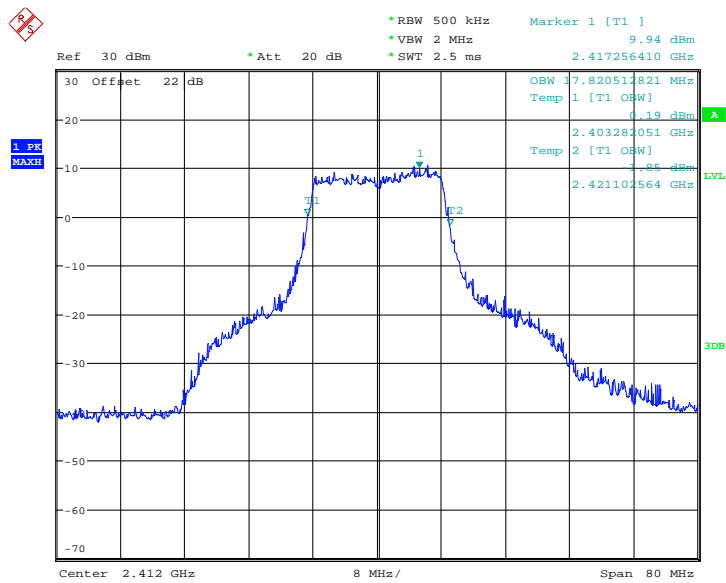
Date: 19.JUN.2014 13:18:38

Fig.A.9.2 99% Occupied Bandwidth: (802.11b, Ch 6)



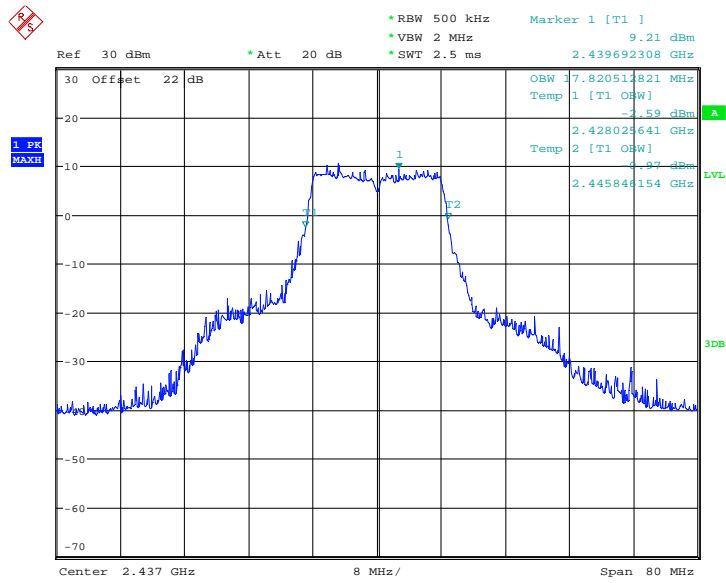
Date: 19.JUN.2014 13:19:06

Fig.A.9.3 99% Occupied Bandwidth: (802.11b, Ch 11)



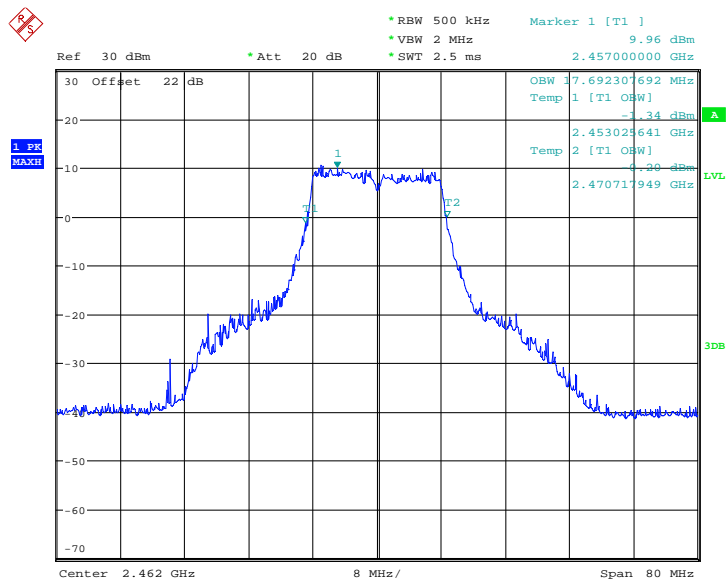
Date: 19.JUN.2014 13:20:17

Fig.A.9.4 99% Occupied Bandwidth: (802.11g, Ch 1)



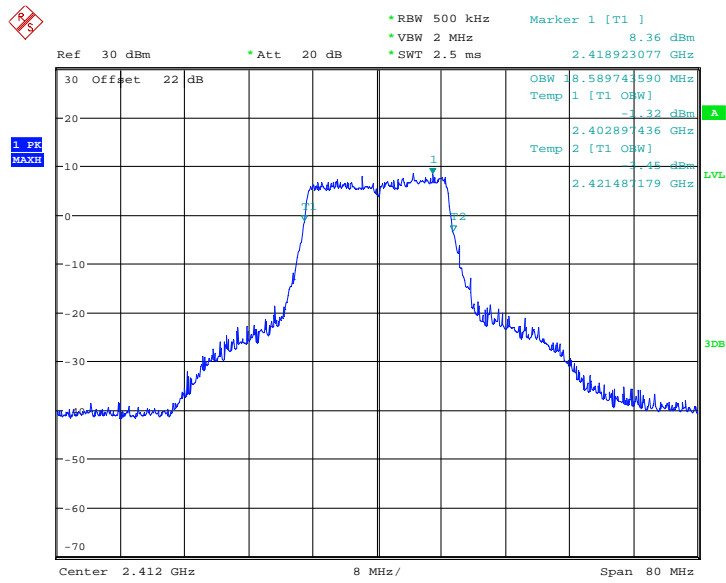
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Fig.A.9.5 99% Occupied Bandwidth: (802.11g, Ch 6)



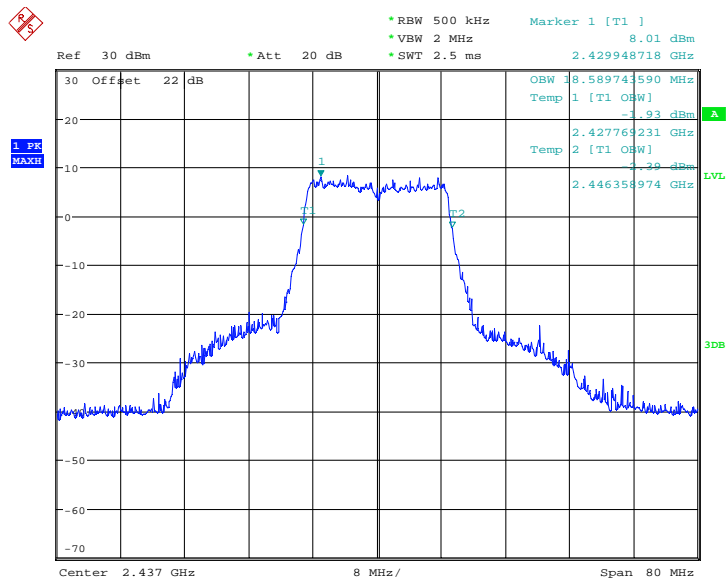
Date: 19.JUN.2014 13:20:54

Fig.A.9.6 99% Occupied Bandwidth: (802.11g, Ch 11)



Date: 19.JUN.2014 13:21:30

Fig.A.9.7 99% Occupied Bandwidth: (802.11n-HT20, Ch 1)



Date: 19.JUN.2014 13:21:53

Fig.A.9.8 99% Occupied Bandwidth: (802.11n-HT20, Ch 6)