

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

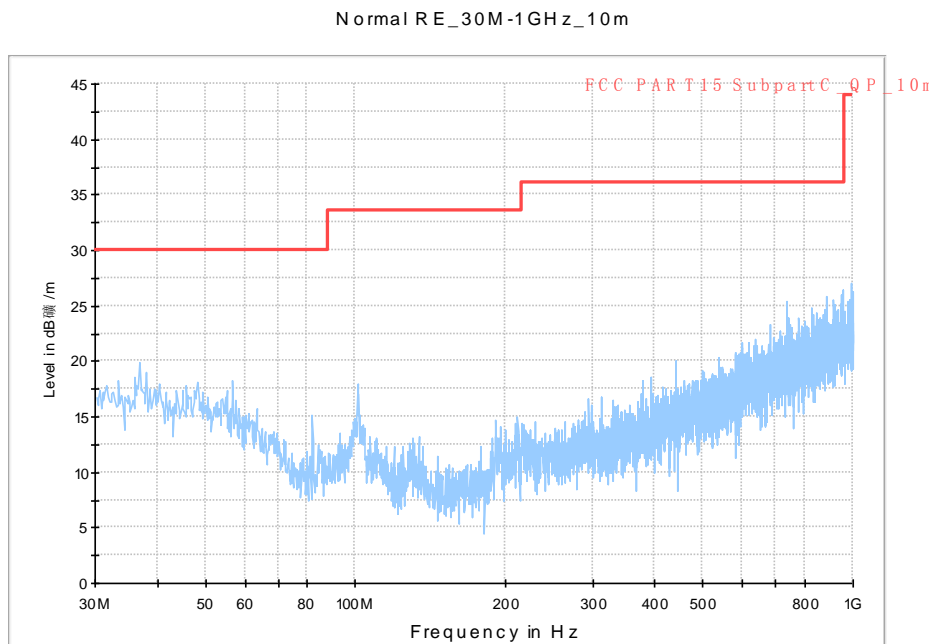


Fig.A.6.2.24 Radiated Spurious Emission (802.11n-HT20, Ch1, 30 MHz-1 GHz)

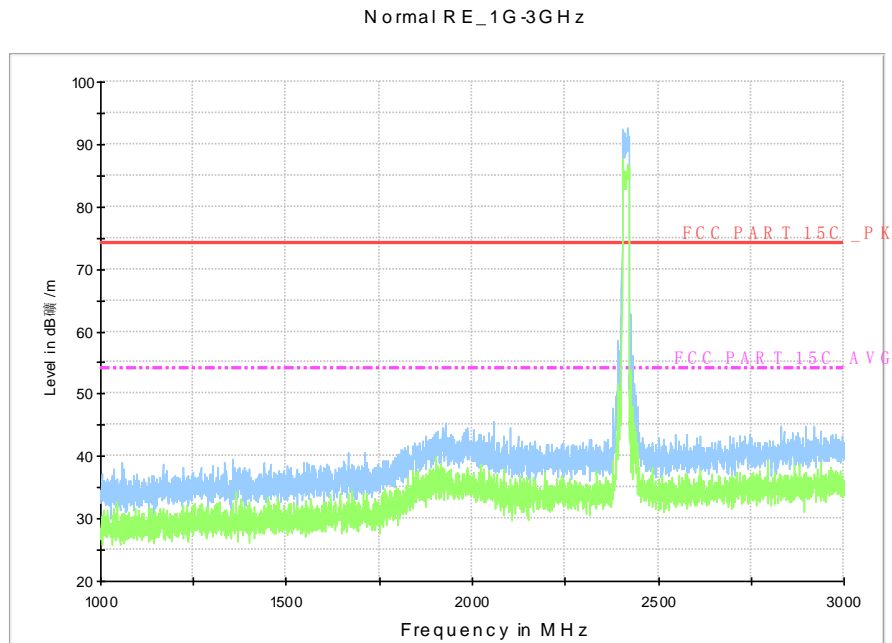


Fig.A.6.2.25 Radiated Spurious Emission (802.11n-HT20, Ch1, 1 GHz-3 GHz)

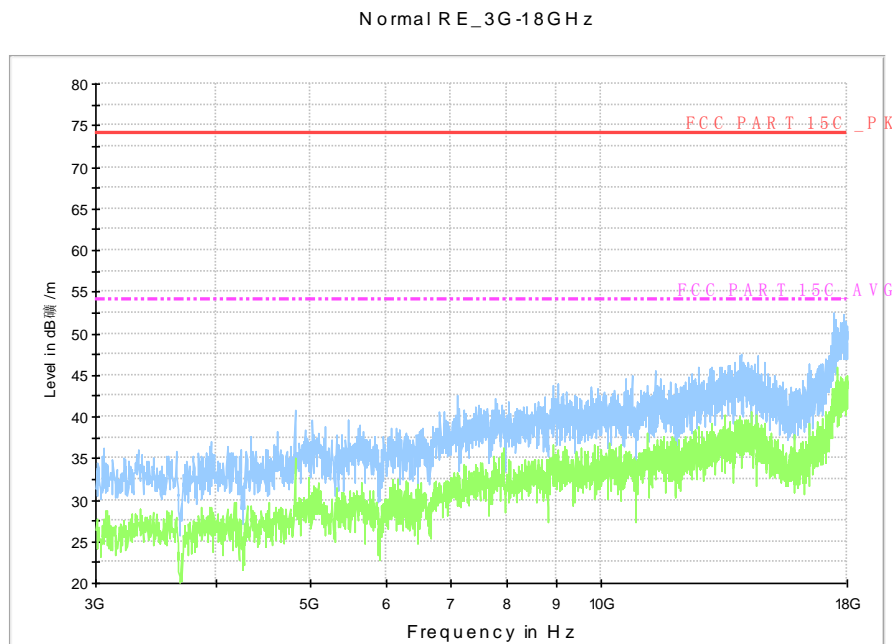


Fig.A.6.2.26 Radiated Spurious Emission (802.11n-HT20, Ch1, 3 GHz-18 GHz)

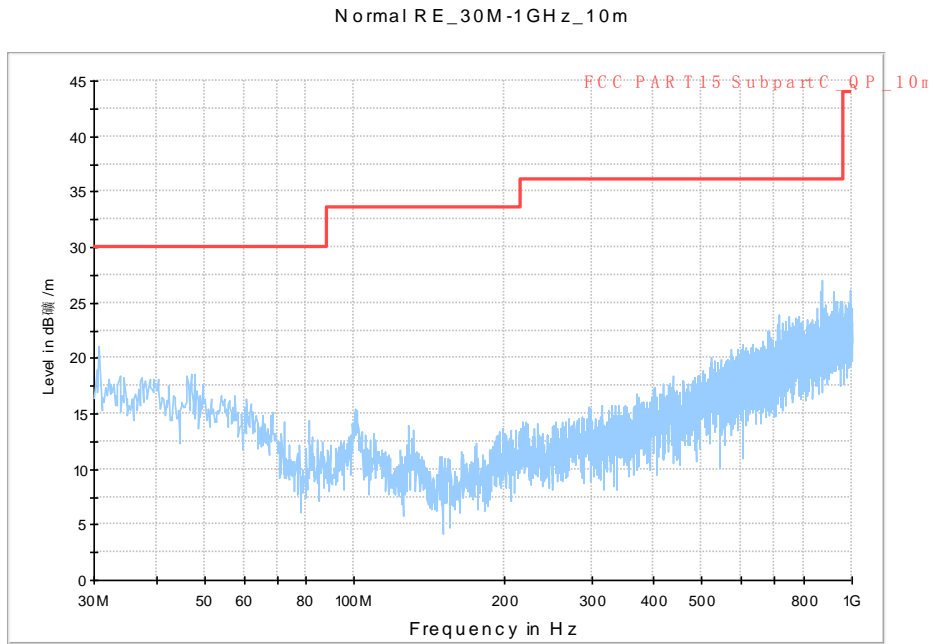


Fig.A.6.2.27 Radiated Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)

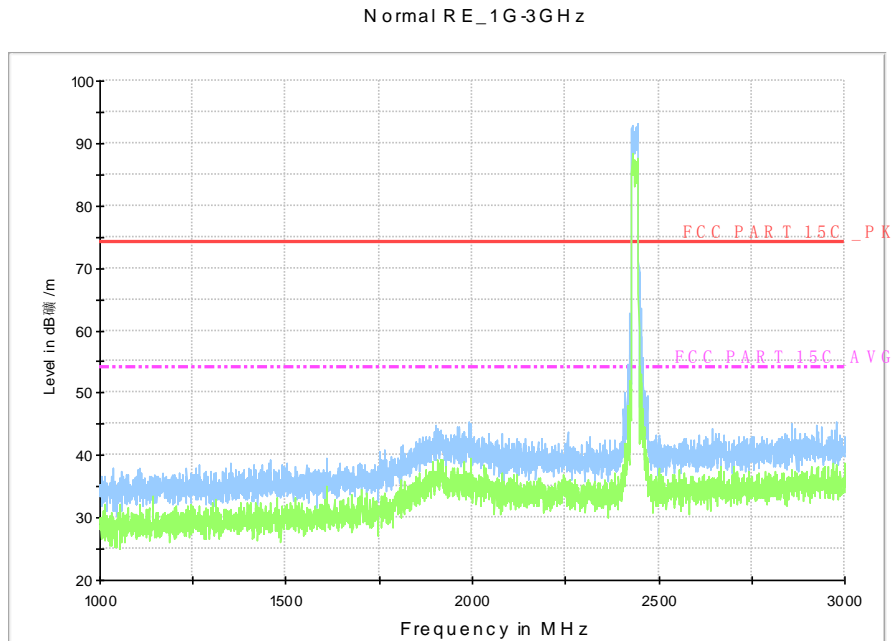


Fig.A.6.2.28 Radiated Spurious Emission (802.11n-HT20, Ch6, 1 GHz-3 GHz)

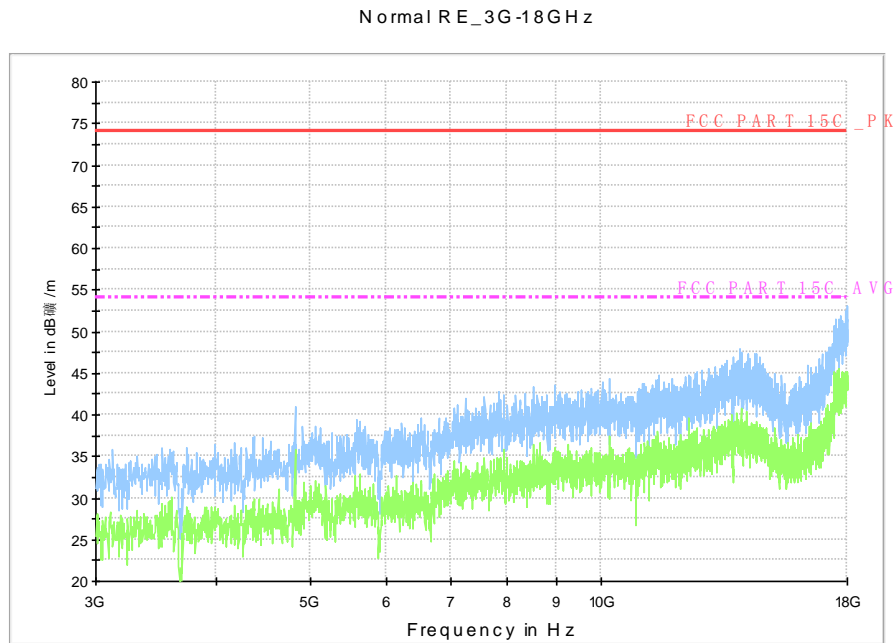


Fig.A.6.2.29 Radiated Spurious Emission (802.11n-HT20, Ch6, 3 GHz-18 GHz)

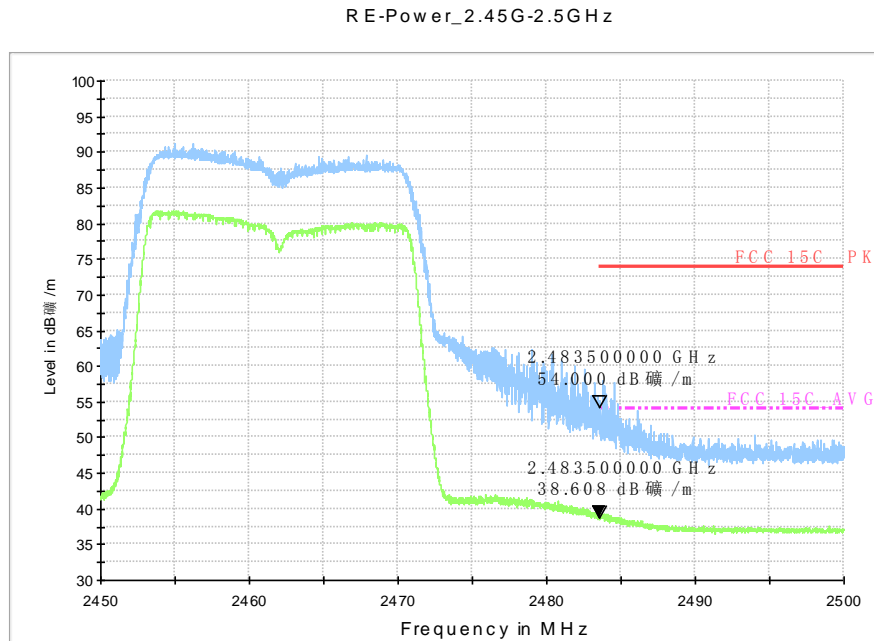


Fig.A.6.2.30 Radiated Spurious Emission (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

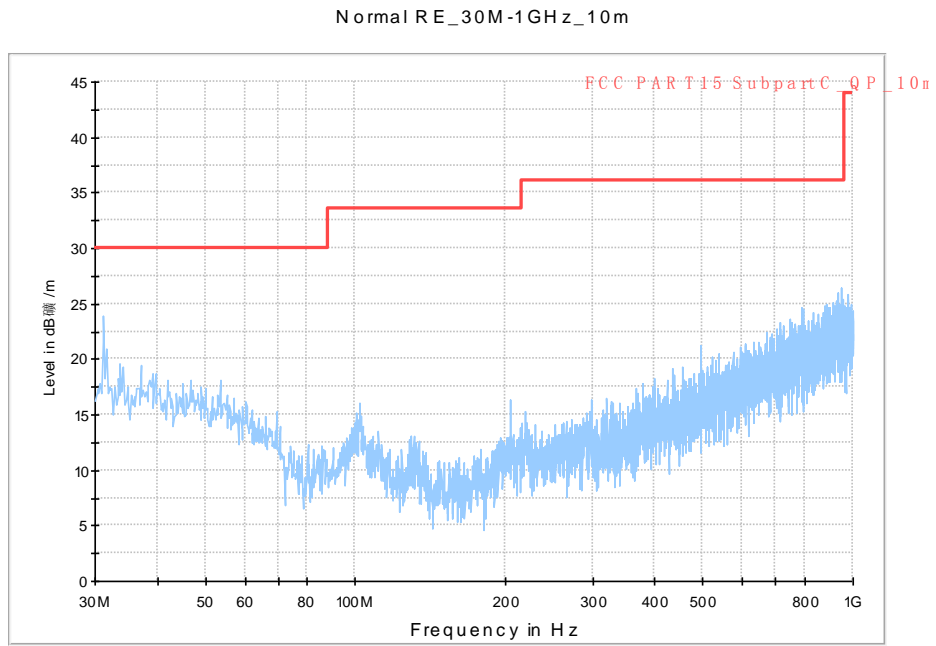


Fig.A.6.2.31 Radiated Spurious Emission (802.11n-HT20, Ch11, 30 MHz-1 GHz)

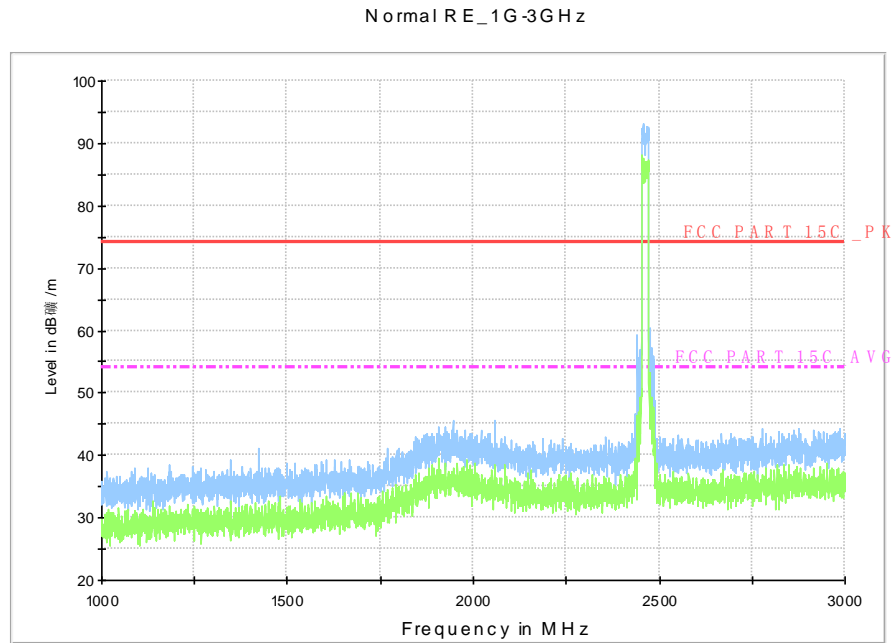


Fig.A.6.2.32 Radiated Spurious Emission (802.11n-HT20, Ch11, 1 GHz-3 GHz)

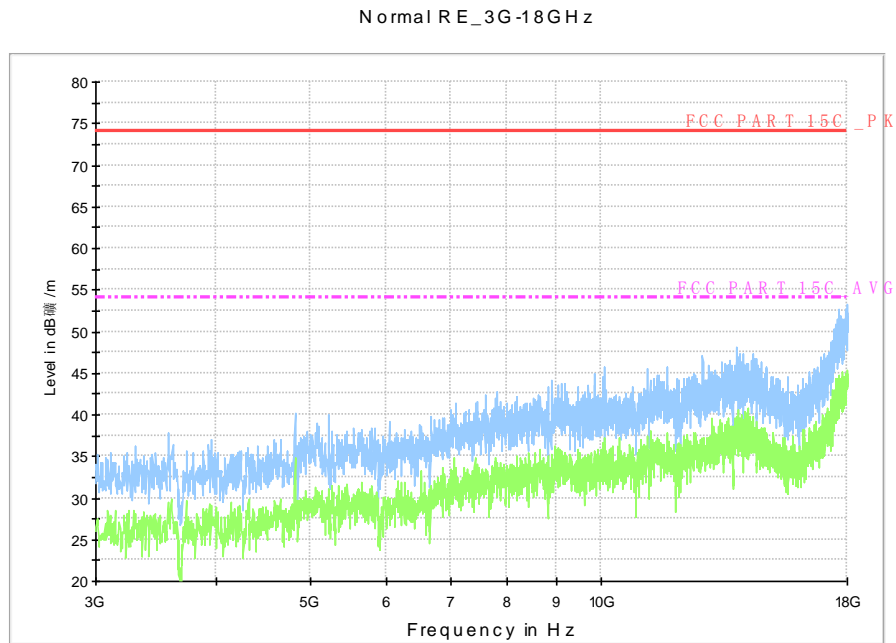


Fig.A.6.2.33 Radiated Spurious Emission (802.11n-HT20, Ch11, 3 GHz-18 GHz)

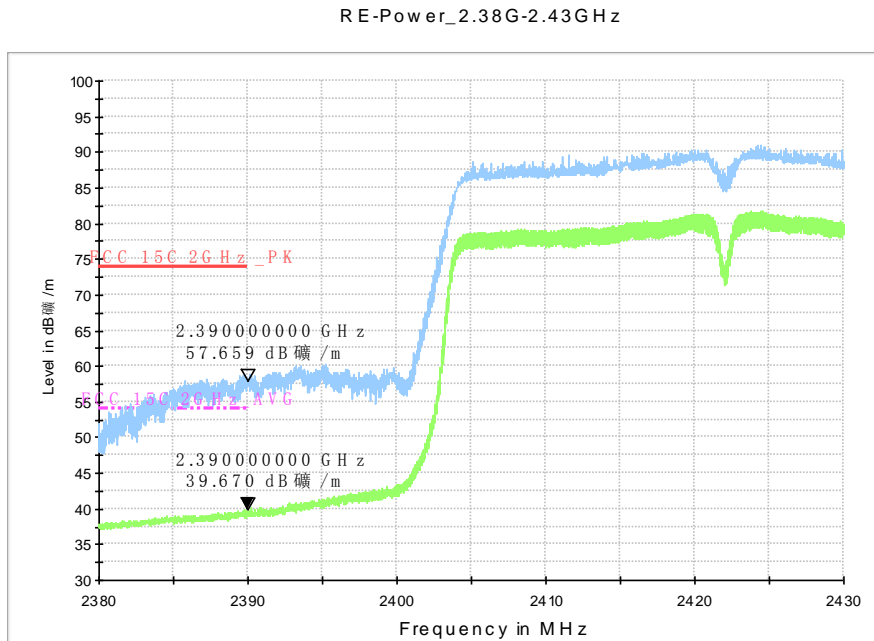


Fig.A.6.2.34 Radiated Spurious Emission (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.45GHz

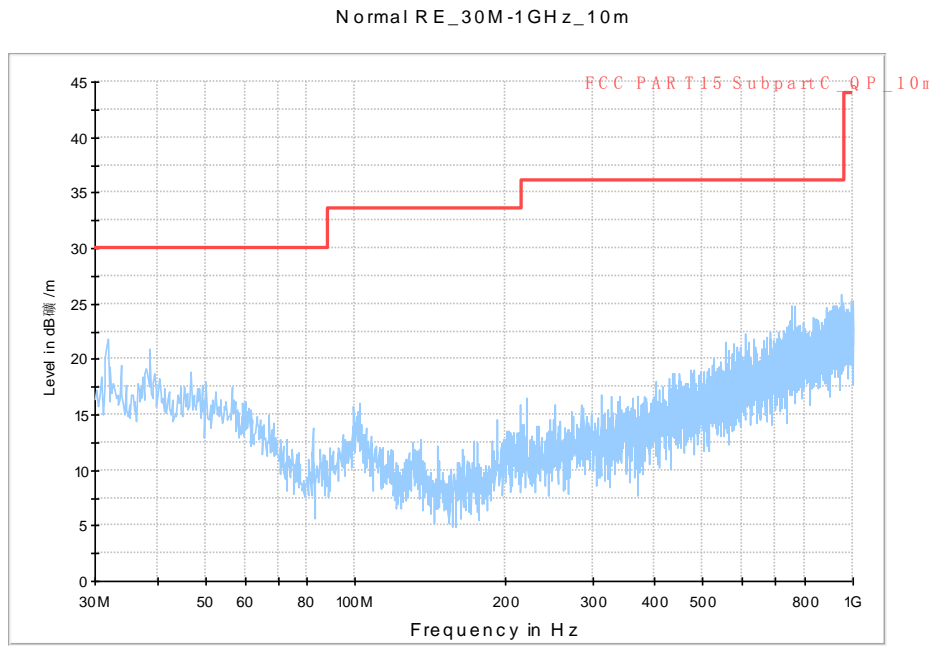


Fig.A.6.2.35 Radiated Spurious Emission (802.11n-HT40, ch3, 30 MHz-1 GHz)

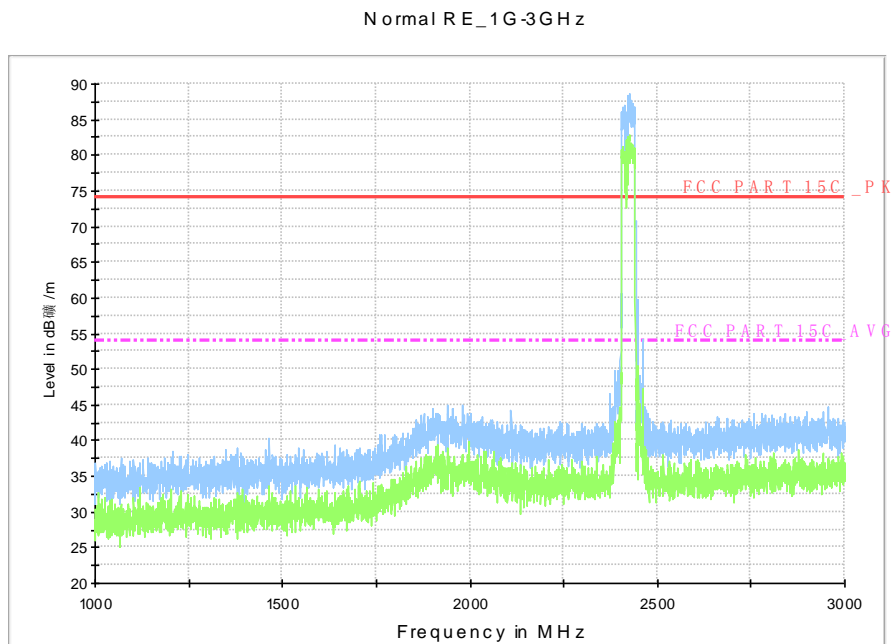


Fig.A.6.2.36 Radiated Spurious Emission (802.11n-HT40, ch3, 1 GHz-3 GHz)

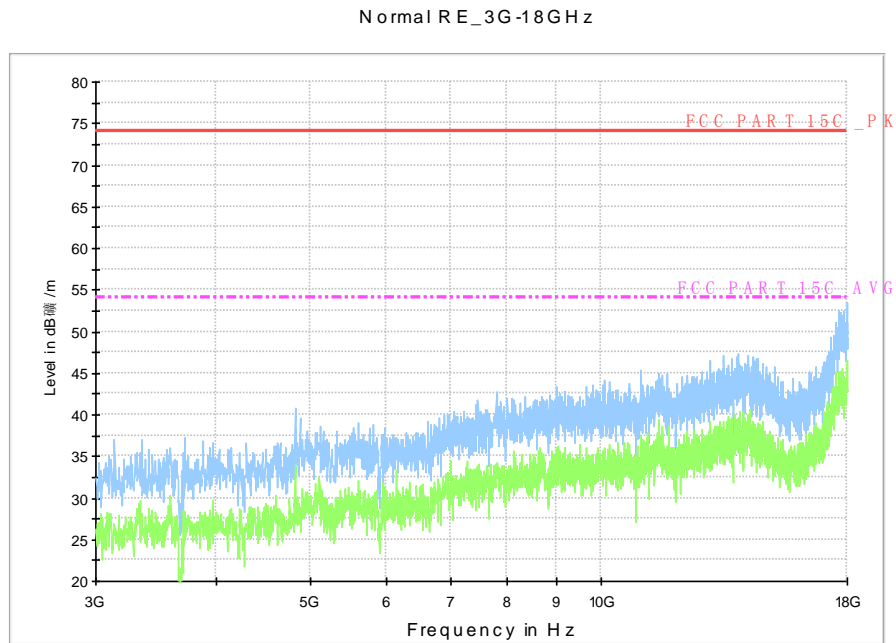


Fig.A.6.2.37 Radiated Spurious Emission (802.11n-HT40, ch3, 3 GHz-18 GHz)

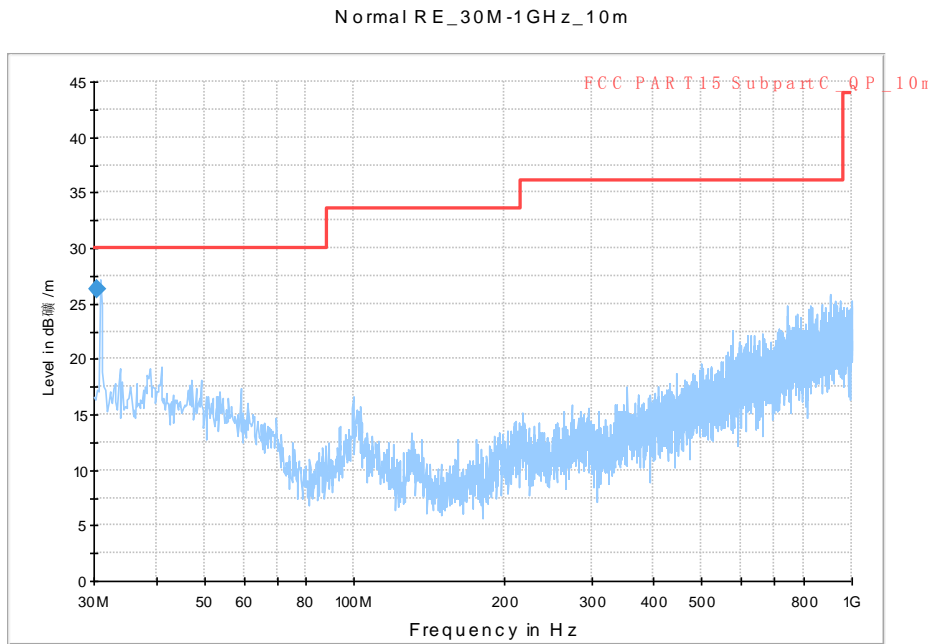


Fig.A.6.2.38 Radiated Spurious Emission (802.11n-HT40, Ch6, 30 MHz-1 GHz)

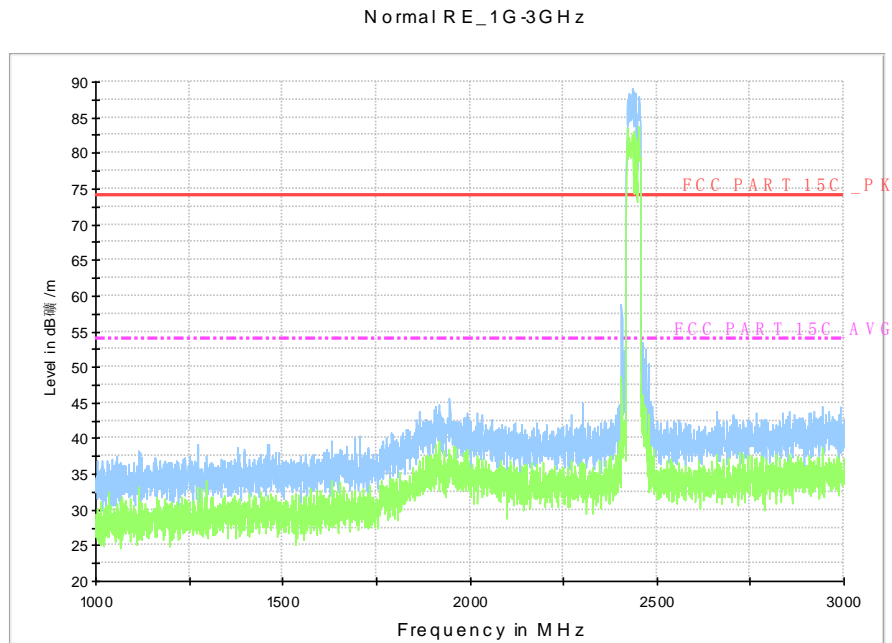


Fig.A.6.2.39 Radiated Spurious Emission (802.11n-HT40, Ch6, 1 GHz-3 GHz)

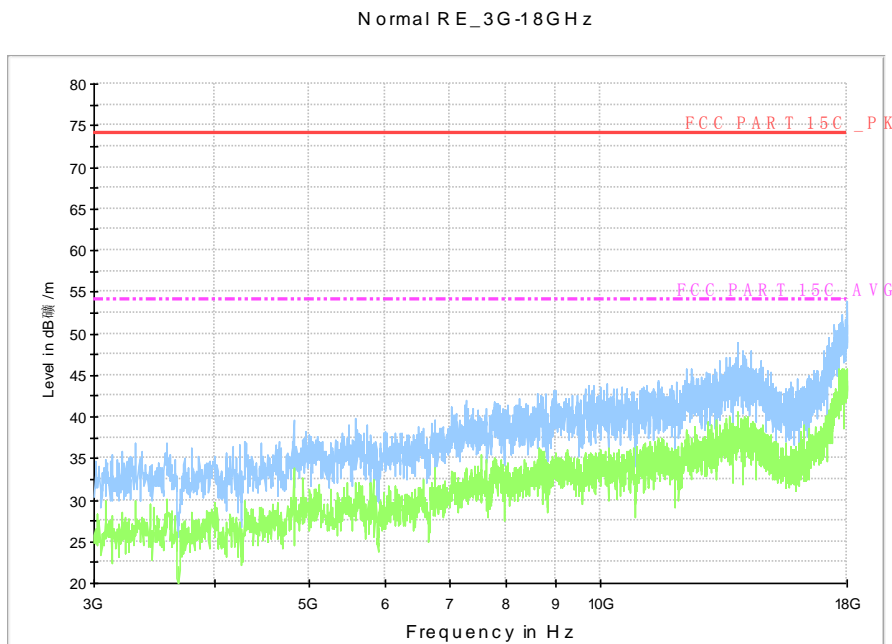


Fig.A.6.2.40 Radiated Spurious Emission (802.11n-HT40, Ch6, 3 GHz-18 GHz)

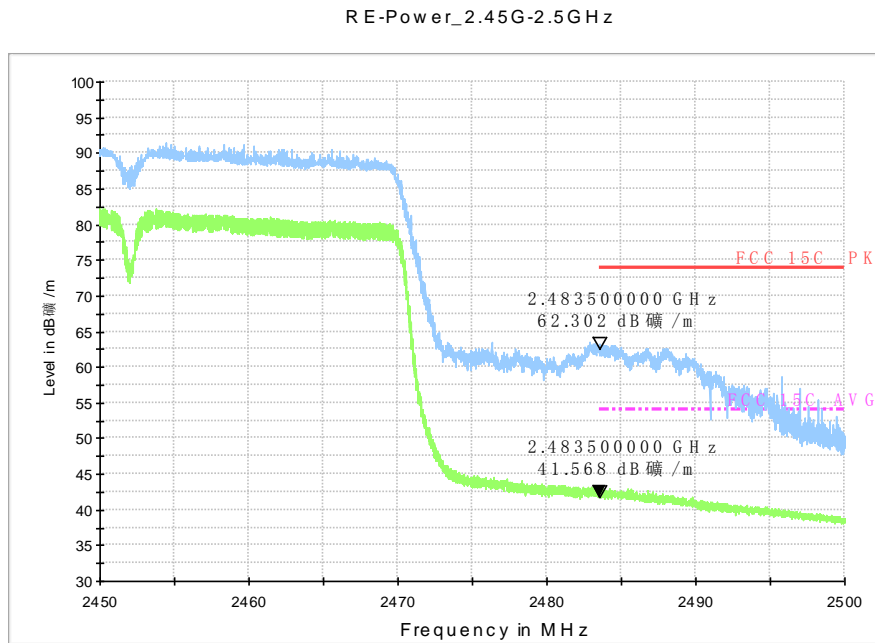


Fig.A.6.2.41 Radiated Spurious Emission (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

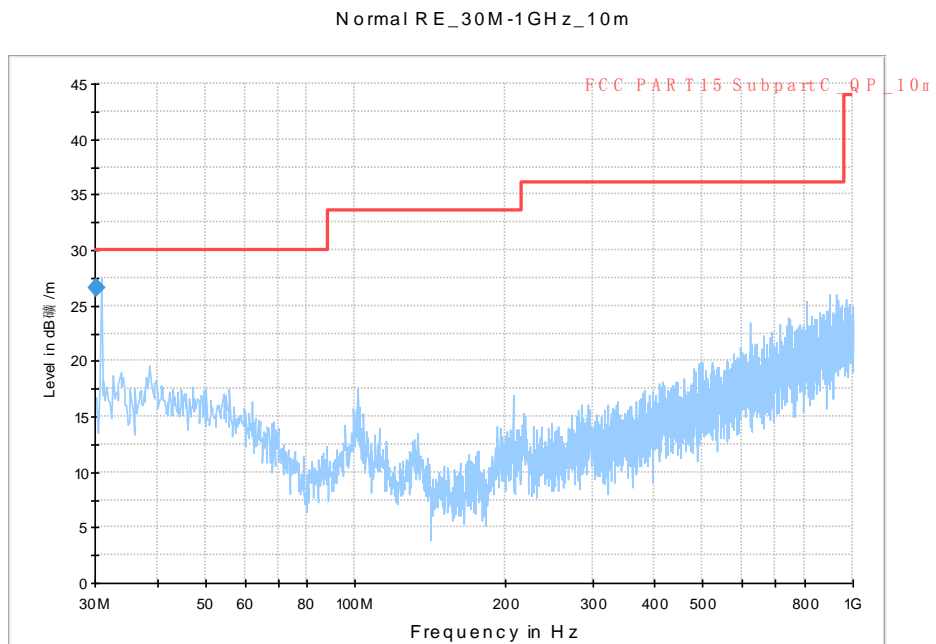


Fig.A.6.2.42 Radiated Spurious Emission (802.11n-HT40, ch9, 30 MHz-1 GHz)

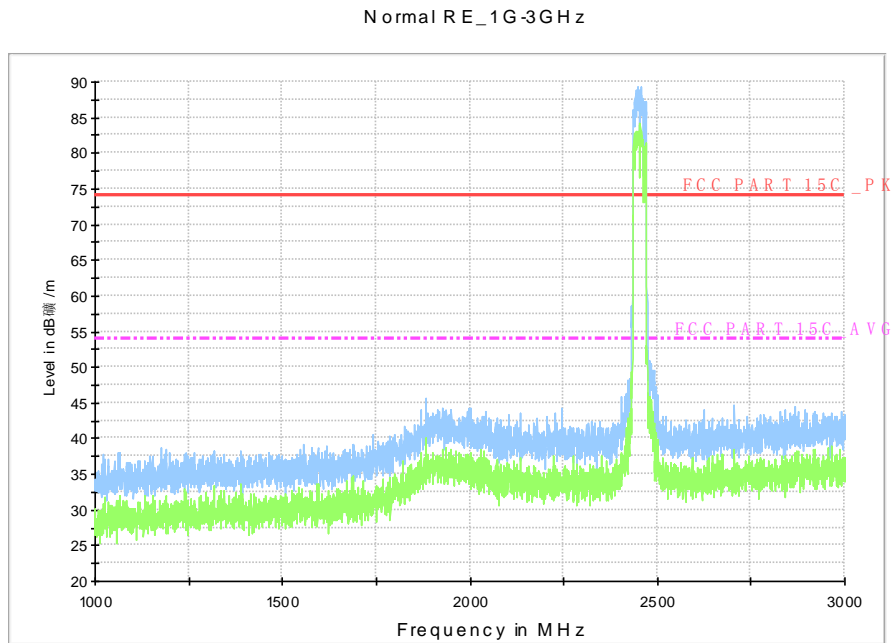


Fig.A.6.2.43 Radiated Spurious Emission (802.11n-HT40, ch9, 1 GHz-3 GHz)

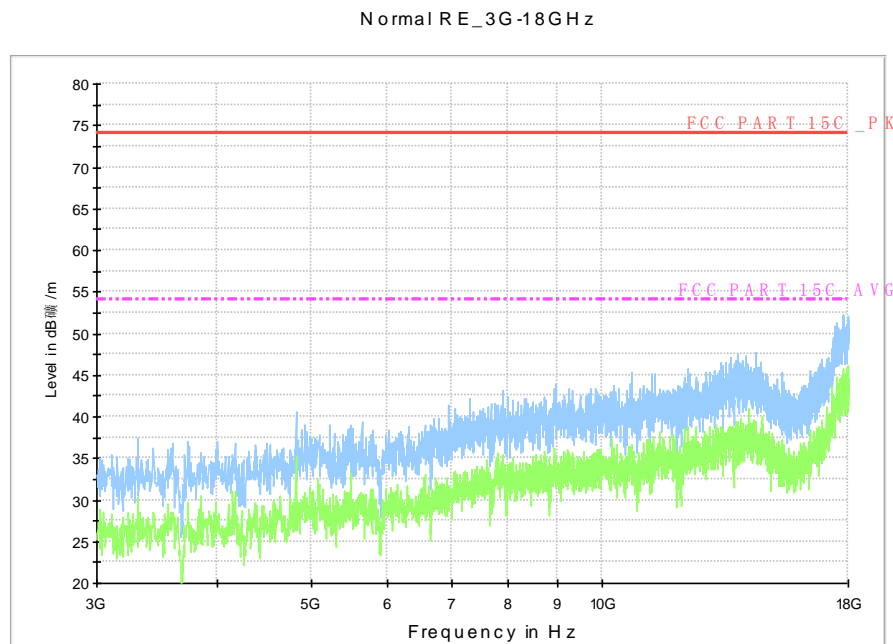


Fig.A.6.2.44 Radiated Spurious Emission (802.11n-HT40, ch9, 3 GHz-18 GHz)

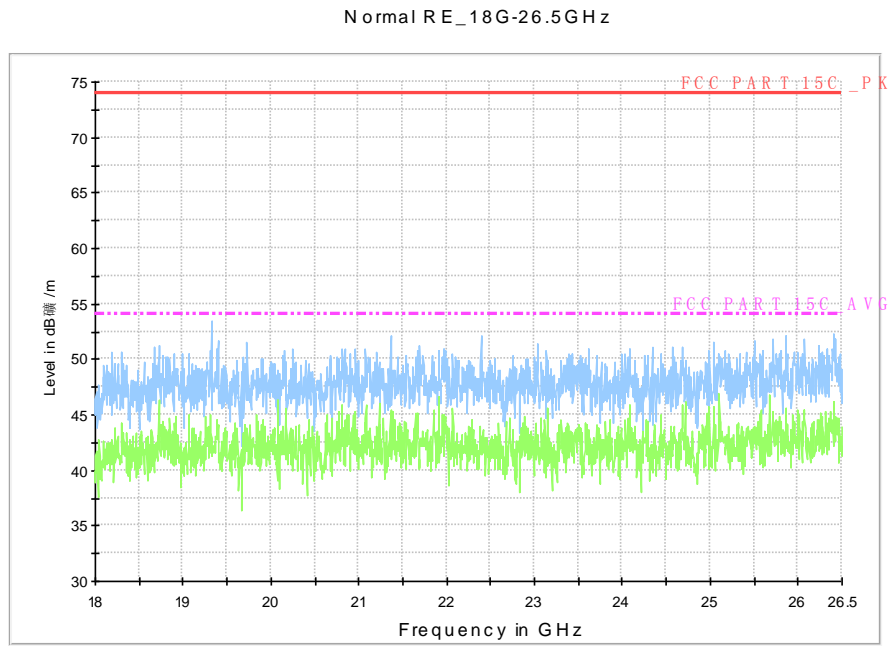


Fig.A.6.2.45 Radiated Spurious Emission (All channels): 18GHz – 26.5GHz

Measurement Results-Wireless charging:

The data rate 11Mbps is worse condition, and the Transmitter Spurious Emission are performed with only this condition.

802.11b/g mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|-------------------|---------|------------------|--------------|------------|
| 802.11b | 1 | 2.38GHz ~2.45GHz | Fig.A.6.2.46 | P |
| | 6 | 9 kHz ~30 MHz | Fig.A.6.2.47 | P |
| | | 30 MHz ~1 GHz | Fig.A.6.2.48 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.49 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.50 | P |
| | | 18 GHz~ 26.5 GHz | Fig.A.6.2.51 | P |
| | 11 | 2.45GHz ~2.5GHz | Fig.A.6.2.52 | P |
| 802.11g | 1 | 2.38GHz ~2.43GHz | Fig.A.6.2.53 | P |
| | 11 | 2.45GHz ~2.5GHz | Fig.A.6.2.54 | P |
| 802.11n (HT20) | 1 | 2.38GHz ~2.45GHz | Fig.A.6.2.55 | P |
| | 11 | 2.45GHz ~2.5GHz | Fig.A.6.2.56 | P |
| 802.11n (HT40) | 1 | 2.38GHz ~2.45GHz | Fig.A.6.2.57 | P |
| | 11 | 2.45GHz ~2.5GHz | Fig.A.6.2.58 | P |

Conclusion: Pass

Measurement Uncertainty:

| Frequency Range | Uncertainty(dB) |
|----------------------|-----------------|
| $f \leq 1\text{GHz}$ | 3.9 |
| $f > 1\text{GHz}$ | 4.3 |

Test graphs as below:

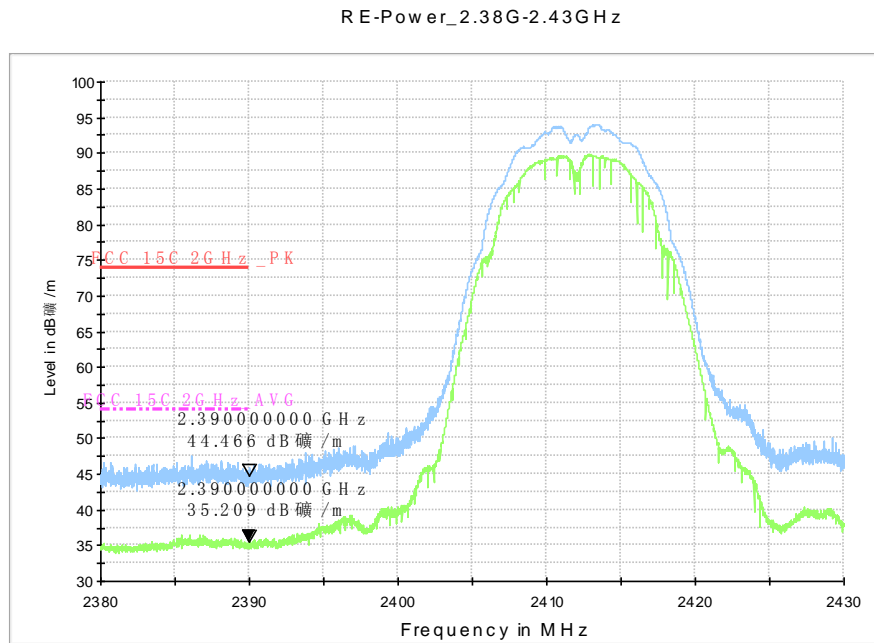


Fig.A.6.2.46 Radiated Spurious Emission (Power): 802.11b, ch1, 2.38 GHz – 2.45GHz

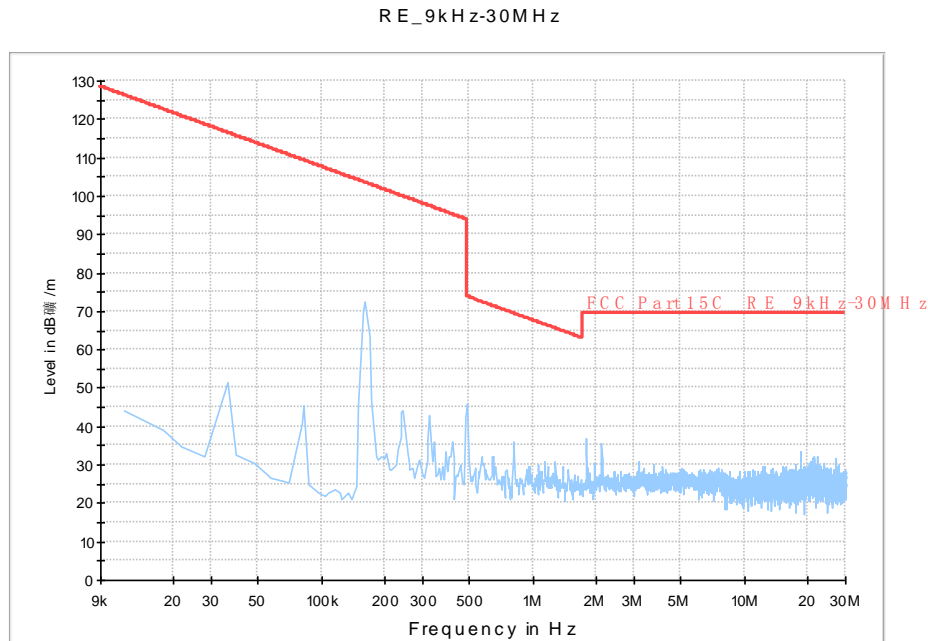


Fig.A.6.2.47 Radiated Spurious Emission (802.11b, Ch6, 9 kHz ~30 MHz)

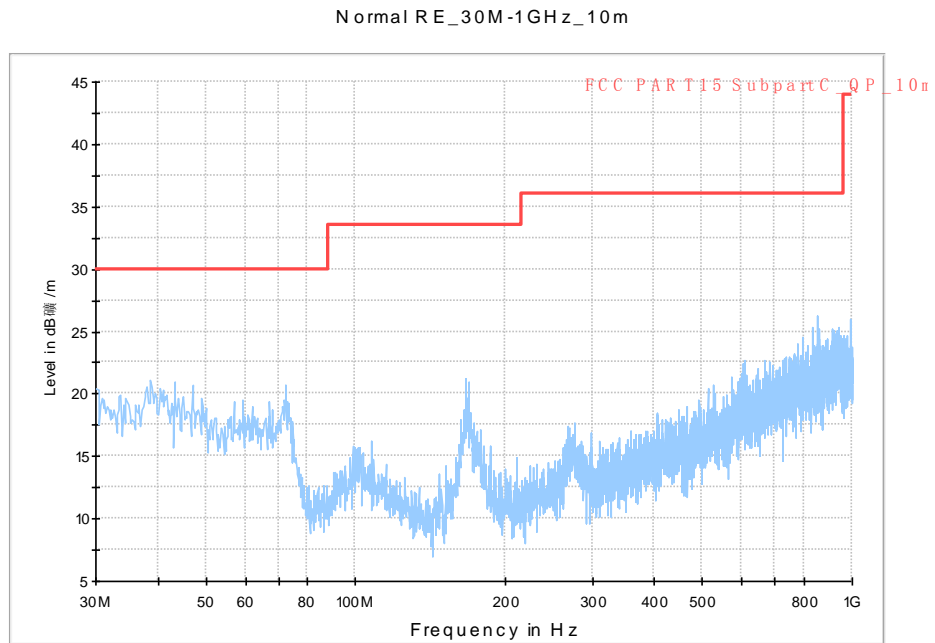


Fig.A.6.2.48 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)

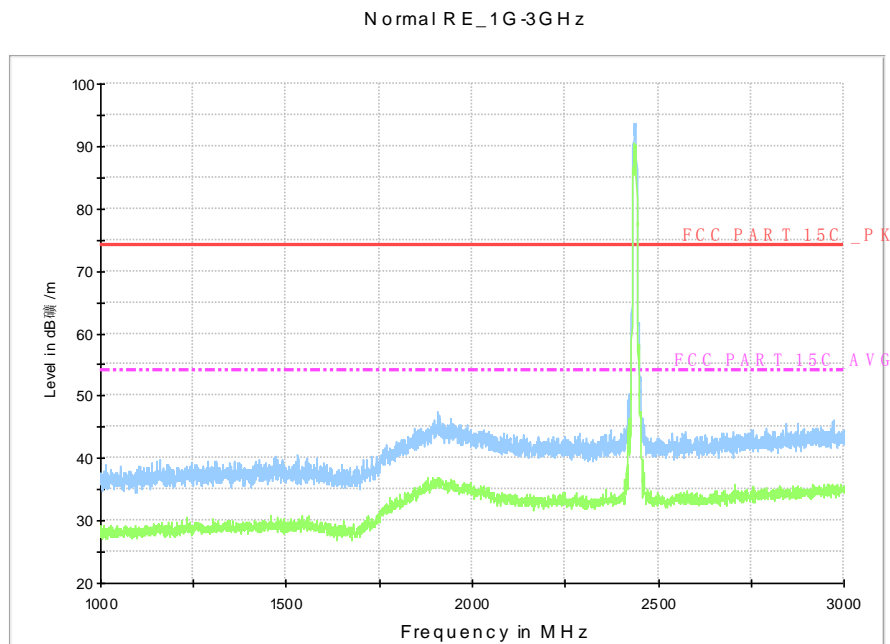


Fig.A.6.2.49 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-3 GHz)

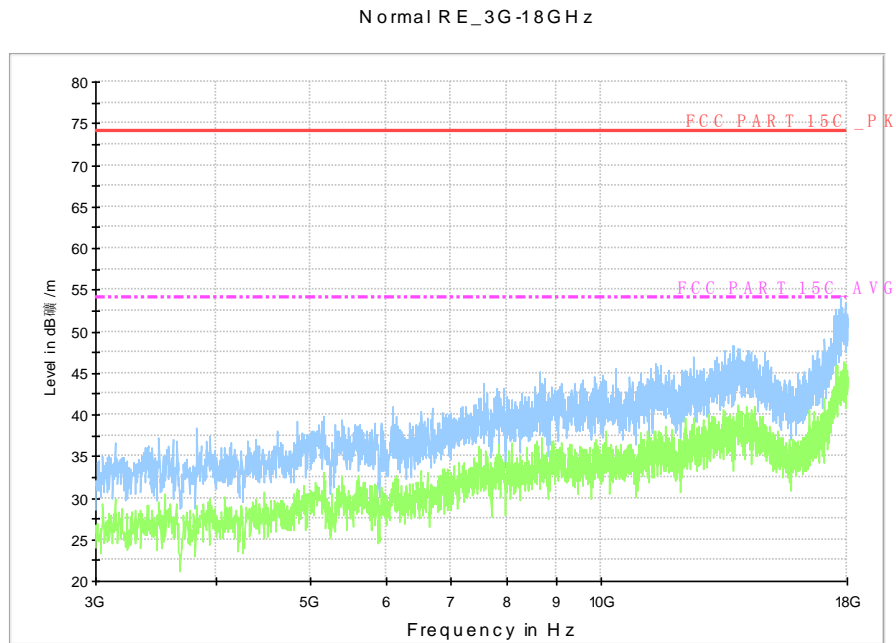


Fig.A.6.2.50 Radiated Spurious Emission (802.11b, Ch6, 3 GHz-18 GHz)

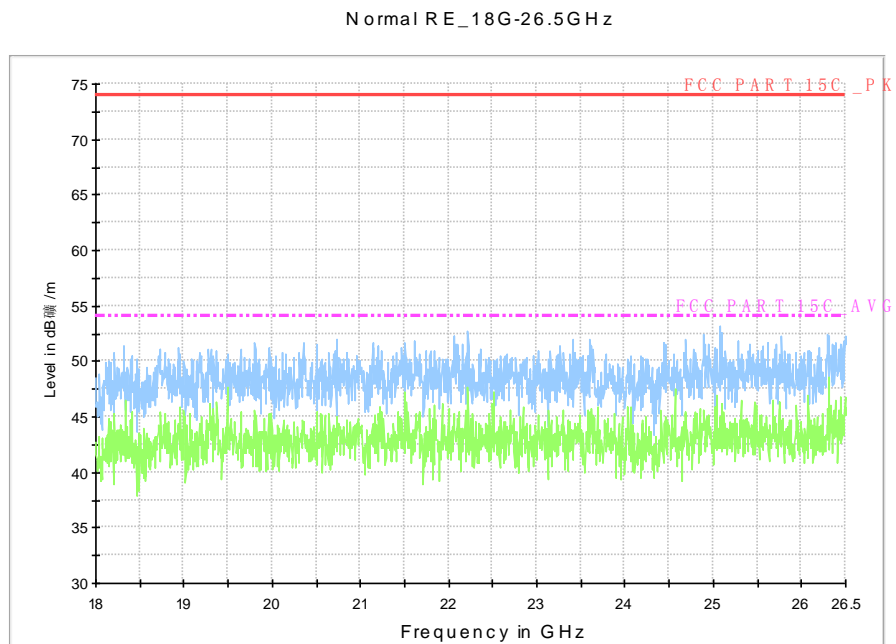


Fig.A.6.2.51 Radiated Spurious Emission (802.11b, Ch6, 18 GHz~ 26.5 GHz)

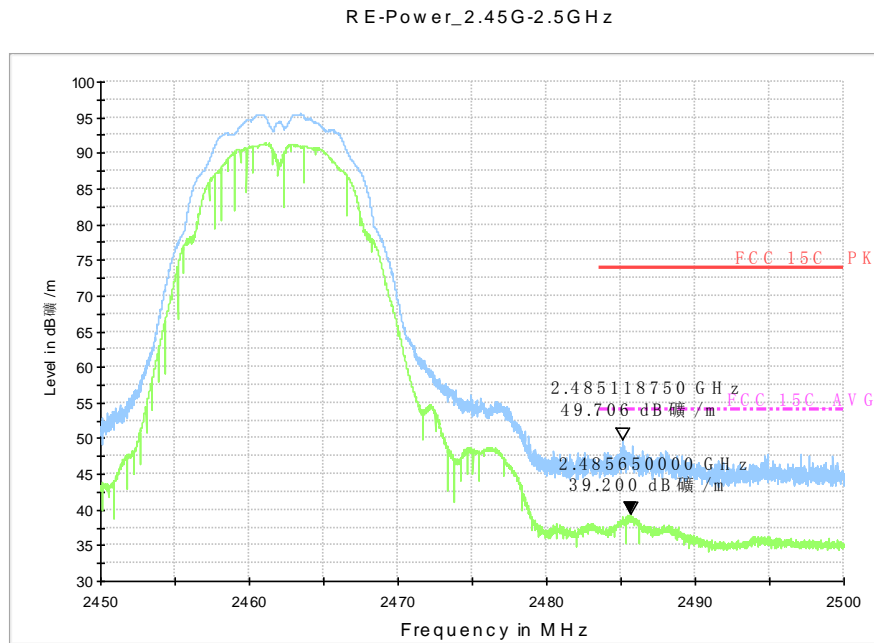


Fig.A.6.2.52 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

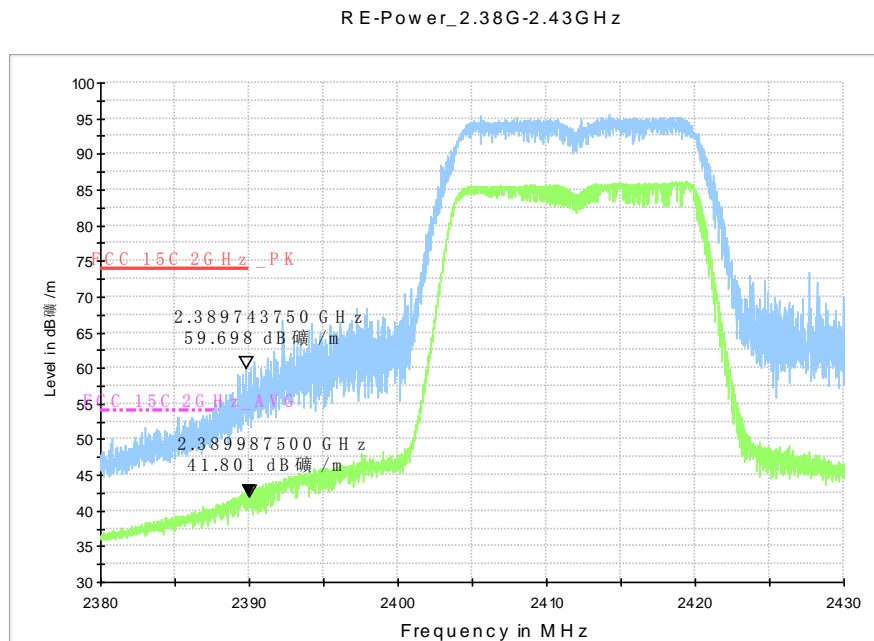


Fig.A.6.2.53 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

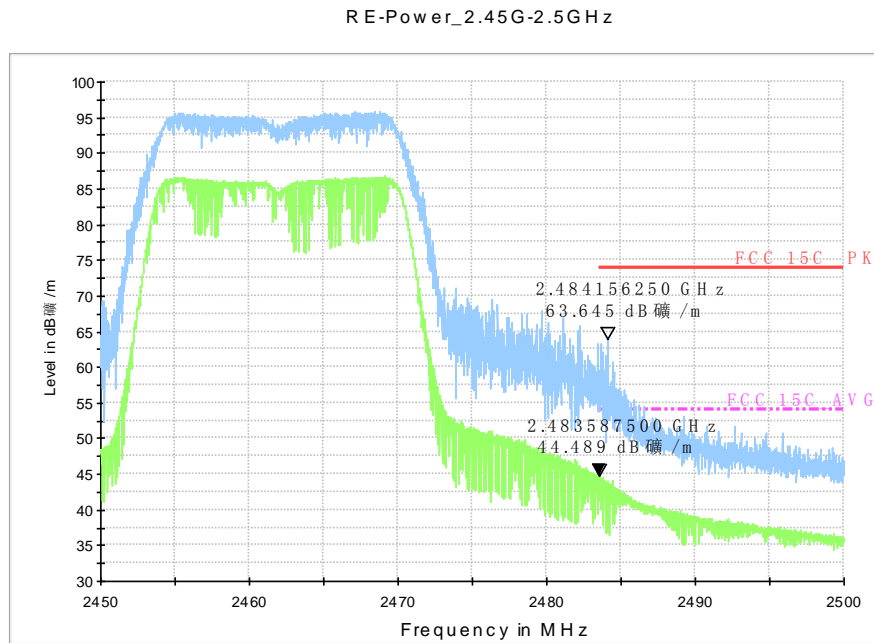


Fig.A.6.2.54 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

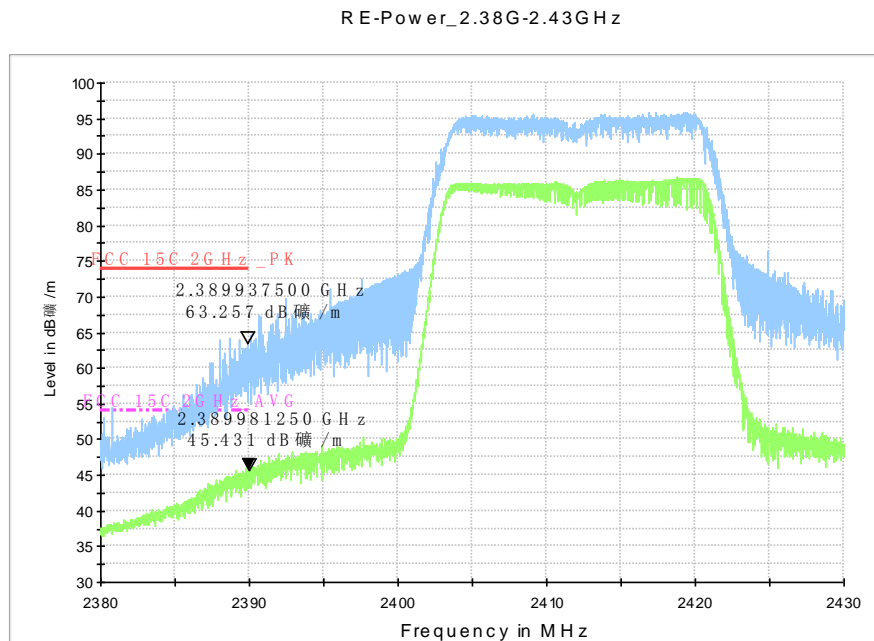


Fig.A.6.2.55 Radiated Spurious Emission (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

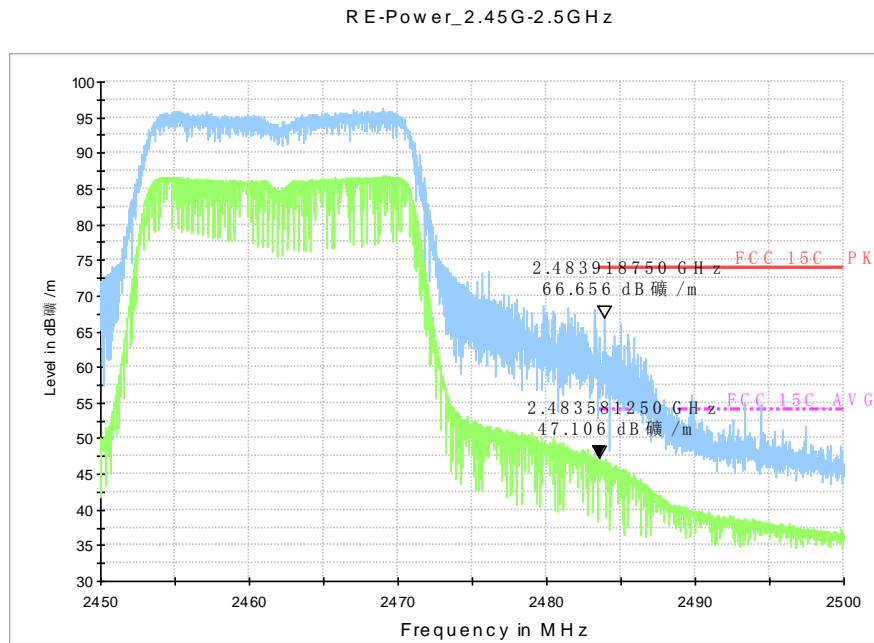


Fig.A.6.2.56 Radiated Spurious Emission (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

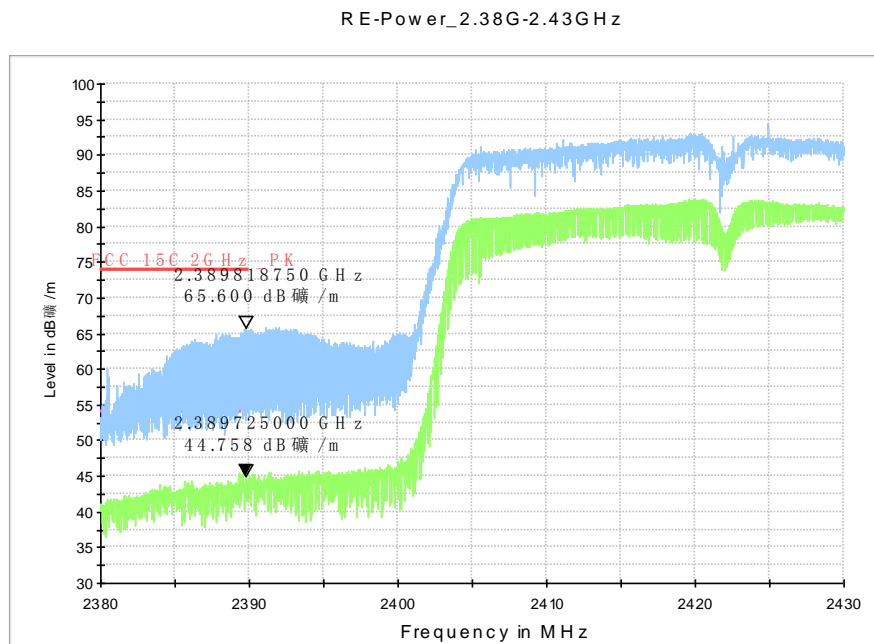


Fig.A.6.2.57 Radiated Spurious Emission (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.45GHz

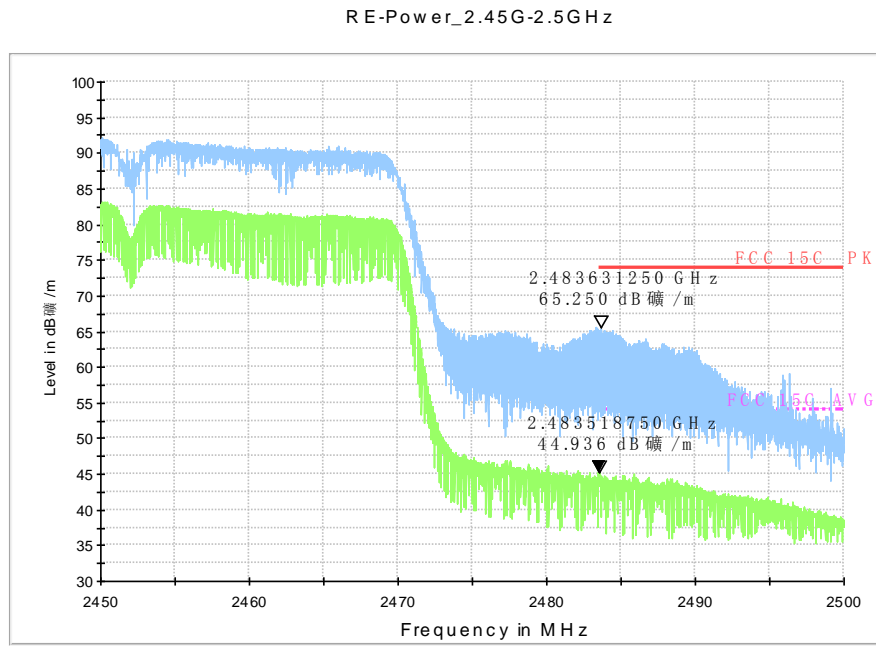


Fig.A.6.2.58 Radiated Spurious Emission (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

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 | idle | |
| 0.15 to 0.5 | 66 to 56 | Fig.A.7.1 | Fig.A.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 (dB μ V) | Result (dB μ V) | | Conclusion |
|-----------------------|----------------------------|---------------------|-----------|------------|
| | | With charger | | |
| | | 802.11g | 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:

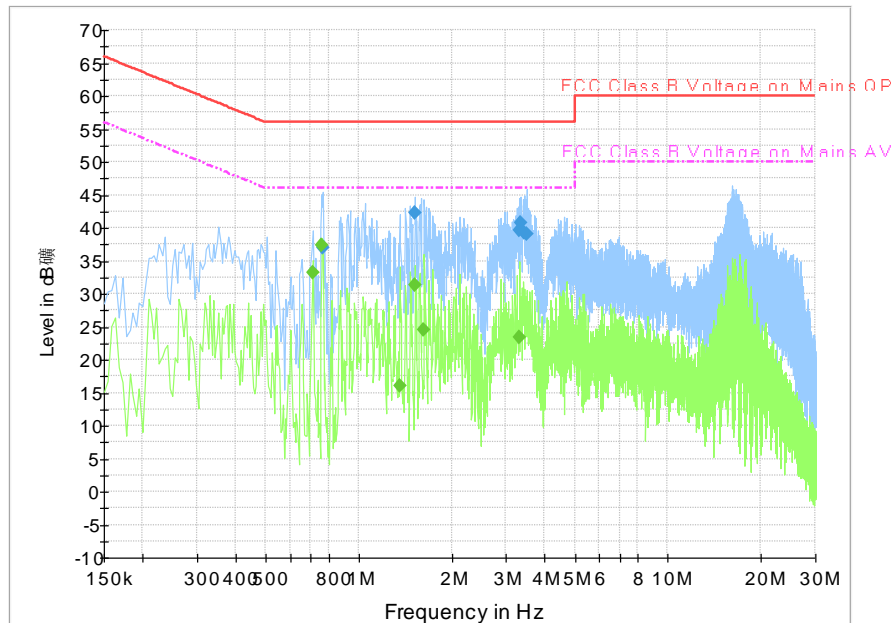


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

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

Final Result 1

| Frequency (MHz) | QuasiPeak (dB μ V) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|------------------------|-----|------|------------|-------------|--------------------|
| 0.766500 | 37.0 | GND | L1 | 9.8 | 19.0 | 56.0 |
| 1.518000 | 42.3 | GND | L1 | 9.7 | 13.7 | 56.0 |
| 3.309000 | 39.5 | GND | L1 | 9.7 | 16.5 | 56.0 |
| 3.336000 | 40.7 | GND | L1 | 9.7 | 15.3 | 56.0 |
| 3.426000 | 39.3 | GND | L1 | 9.7 | 16.7 | 56.0 |
| 3.498000 | 39.1 | GND | L1 | 9.7 | 16.9 | 56.0 |

Final Result 2

| Frequency (MHz) | CAverage (dB μ V) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|-----------------------|-----|------|------------|-------------|--------------------|
| 0.712500 | 33.2 | GND | N | 9.8 | 12.8 | 46.0 |
| 0.762000 | 37.4 | GND | N | 9.8 | 8.6 | 46.0 |
| 1.356000 | 16.1 | GND | L1 | 9.7 | 29.9 | 46.0 |
| 1.518000 | 31.4 | GND | L1 | 9.7 | 14.6 | 46.0 |
| 1.626000 | 24.4 | GND | L1 | 9.7 | 21.6 | 46.0 |
| 3.309000 | 23.5 | GND | L1 | 9.7 | 22.5 | 46.0 |

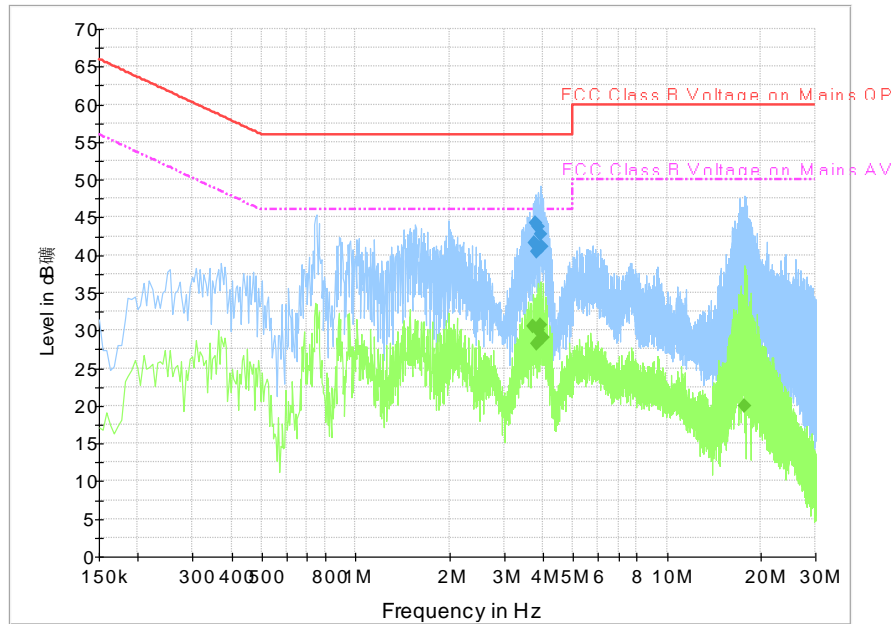


Fig.A.7.2 AC Powerline Conducted Emission-802.11g

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

Final Result 1

| Frequency (MHz) | QuasiPeak (dB μ V) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|------------------------|-----|------|------------|-------------|--------------------|
| 3.741000 | 41.6 | GND | L1 | 9.7 | 14.4 | 56.0 |
| 3.781500 | 44.3 | GND | L1 | 9.7 | 11.7 | 56.0 |
| 3.813000 | 40.5 | GND | L1 | 9.7 | 15.5 | 56.0 |
| 3.871500 | 43.7 | GND | L1 | 9.7 | 12.3 | 56.0 |
| 3.930000 | 42.8 | GND | L1 | 9.7 | 13.2 | 56.0 |
| 3.970500 | 41.0 | GND | L1 | 9.7 | 15.0 | 56.0 |

Final Result 2

| Frequency (MHz) | CAverage (dB μ V) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|-----------------------|-----|------|------------|-------------|--------------------|
| 3.709500 | 30.5 | GND | L1 | 9.7 | 15.5 | 46.0 |
| 3.813000 | 28.3 | GND | L1 | 9.7 | 17.7 | 46.0 |
| 3.871500 | 30.1 | GND | L1 | 9.7 | 15.9 | 46.0 |
| 3.930000 | 30.7 | GND | L1 | 9.7 | 15.3 | 46.0 |
| 4.002000 | 29.0 | GND | L1 | 9.7 | 17.0 | 46.0 |
| 17.812500 | 20.0 | GND | L1 | 9.4 | 30.0 | 50.0 |

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