

Fig.A.6.1.85 Conducted Spurious Emission (802.11n-HT40, Ch6, 7.5 GHz-10 GHz)

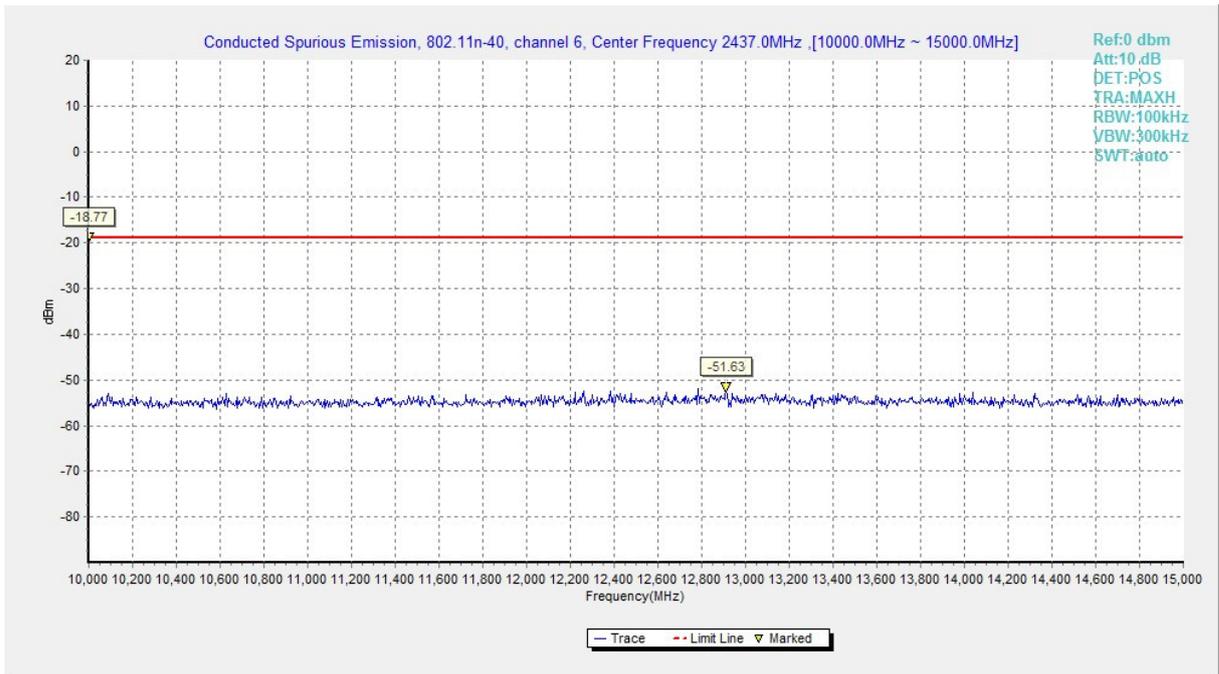


Fig.A.6.1.86 Conducted Spurious Emission (802.11n-HT40, Ch6, 10 GHz-15 GHz)

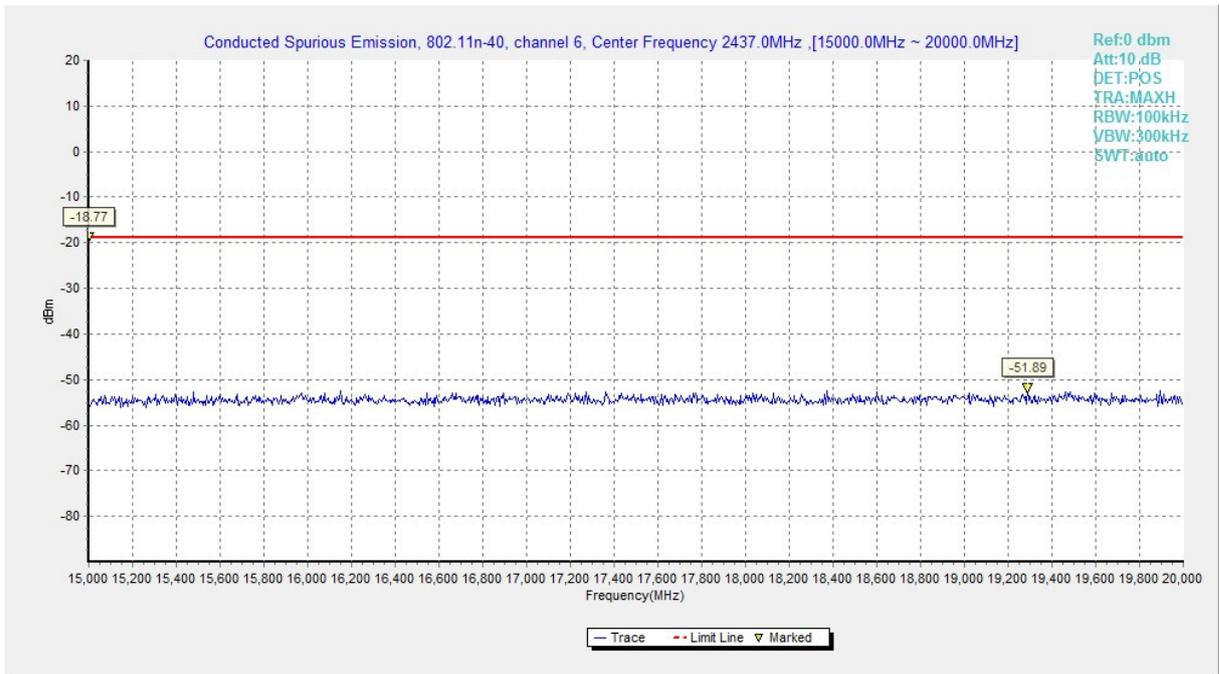


Fig.A.6.1.87 Conducted Spurious Emission (802.11n-HT40, Ch6, 15 GHz-20 GHz)

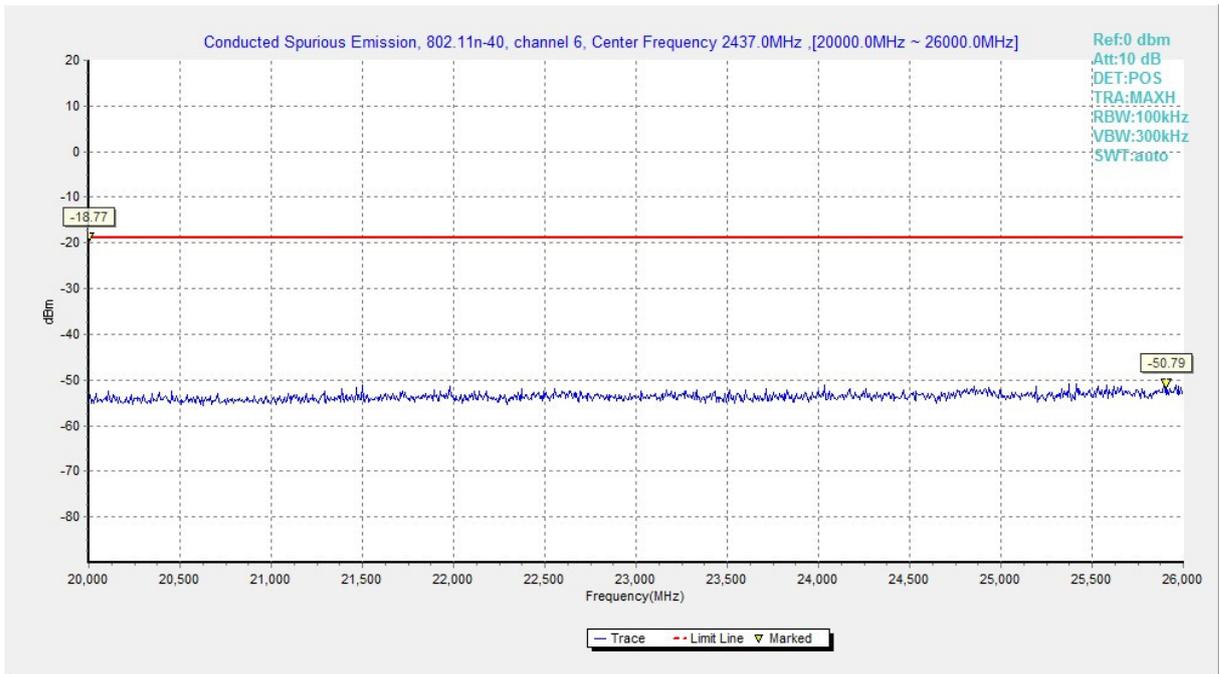


Fig.A.6.1.88 Conducted Spurious Emission (802.11n-HT40, Ch6, 20 GHz-26 GHz)

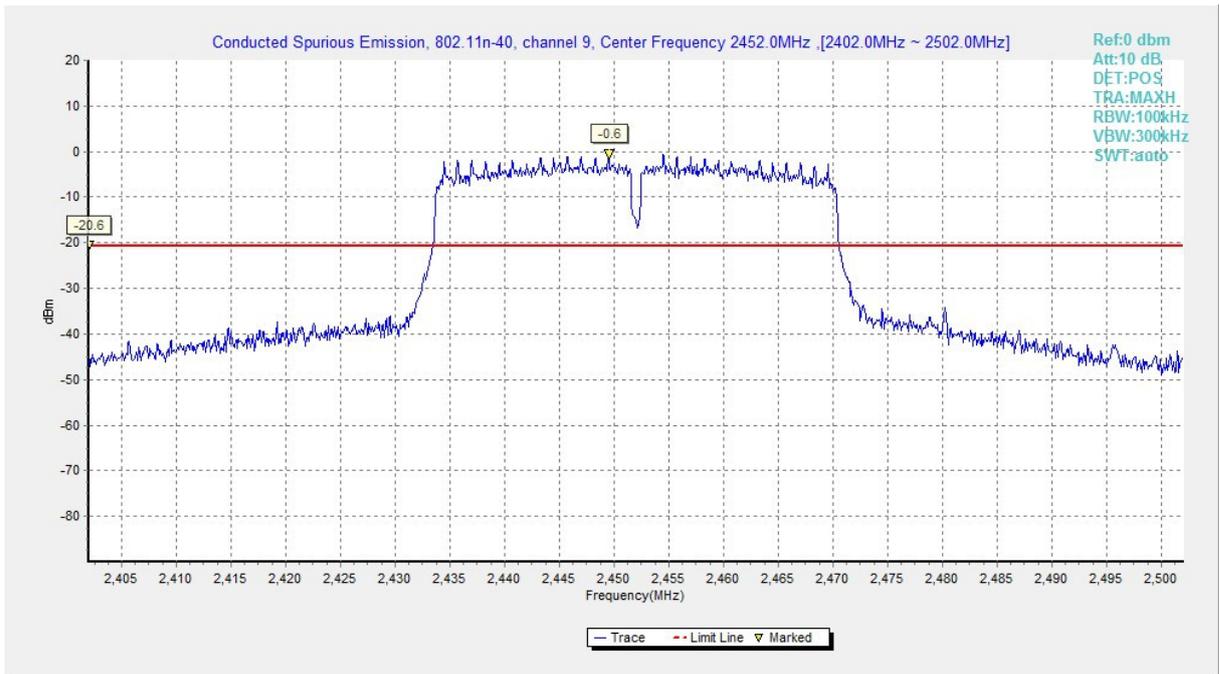


Fig.A.6.1.89 Conducted Spurious Emission (802.11n-HT40, Ch9, Center Frequency)

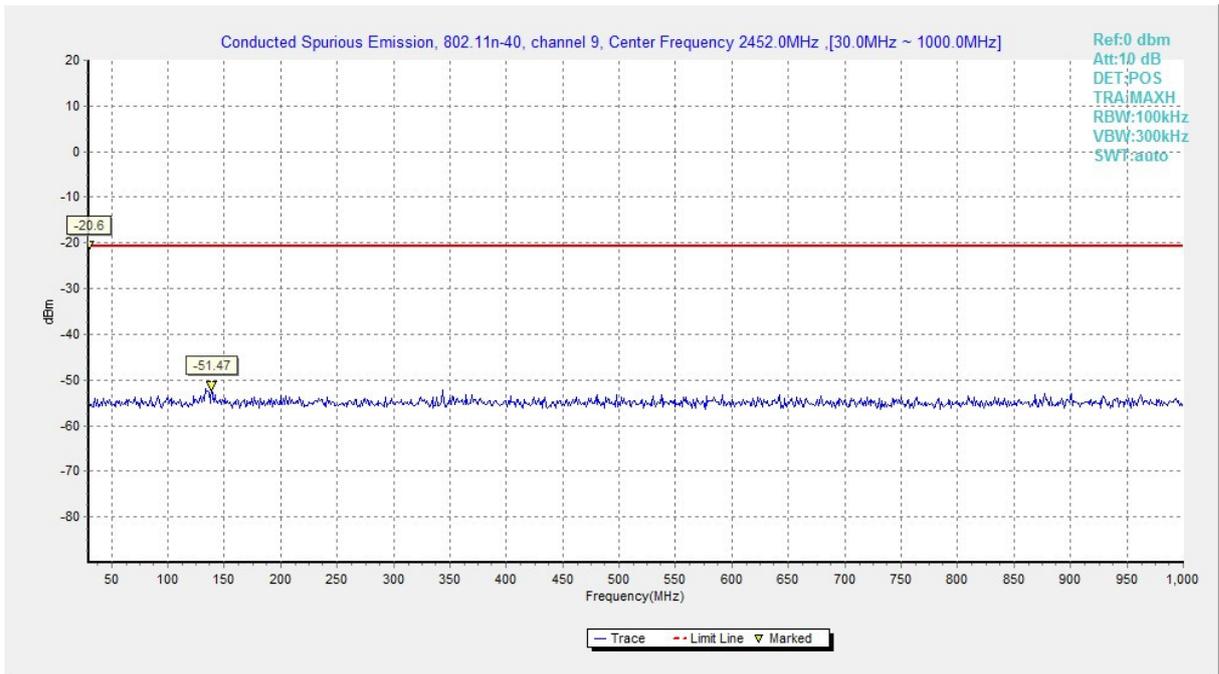


Fig.A.6.1.90 Conducted Spurious Emission (802.11n-HT40, Ch9, 30 MHz-1 GHz)

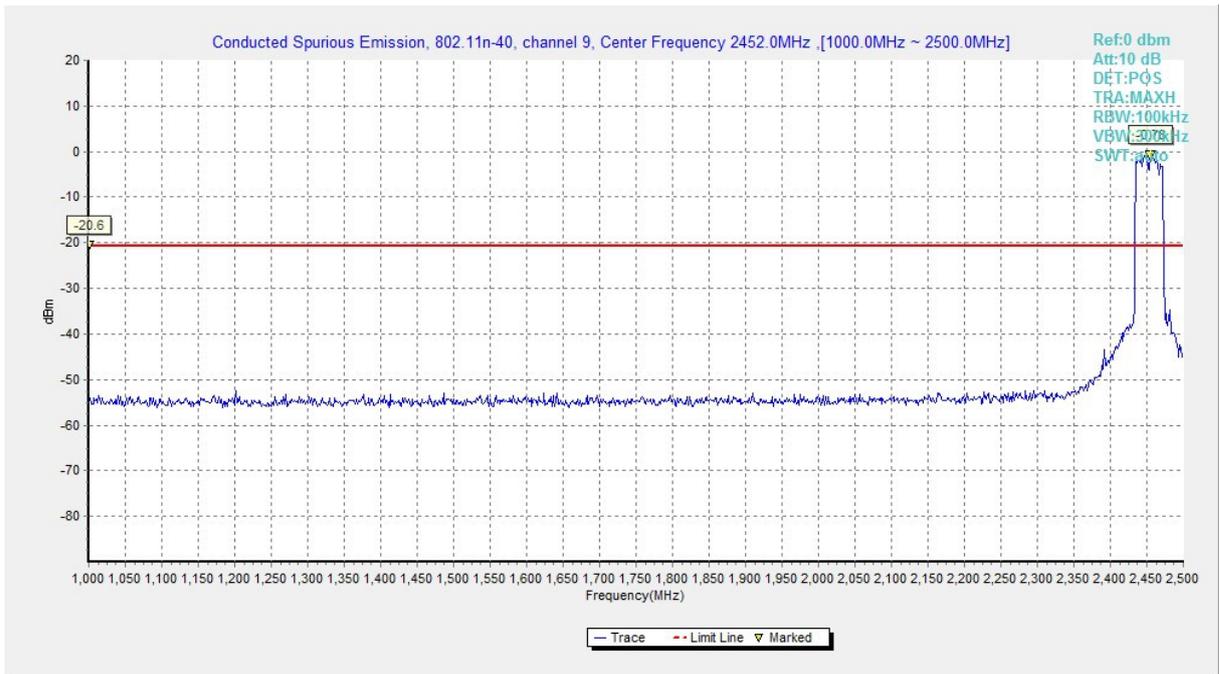


Fig.A.6.1.91 Conducted Spurious Emission (802.11n-HT40, Ch9, 1 GHz-2.5 GHz)

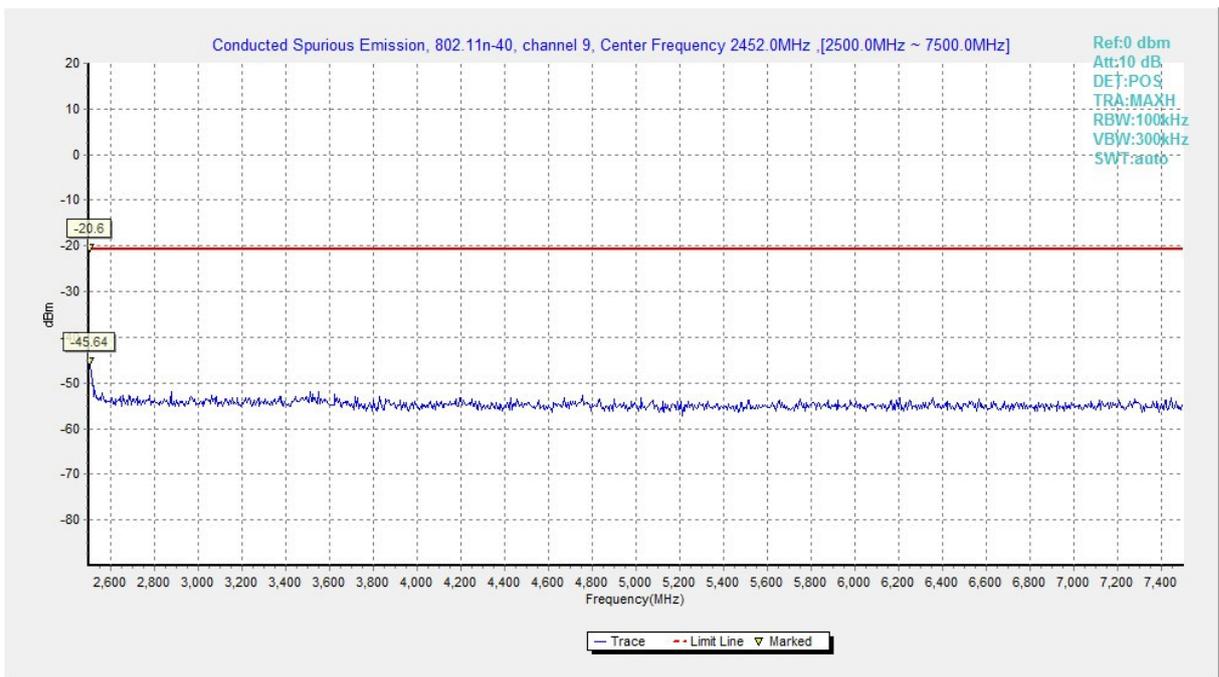


Fig.A.6.1.92 Conducted Spurious Emission (802.11n-HT40, Ch9, 2.5 GHz-7.5 GHz)

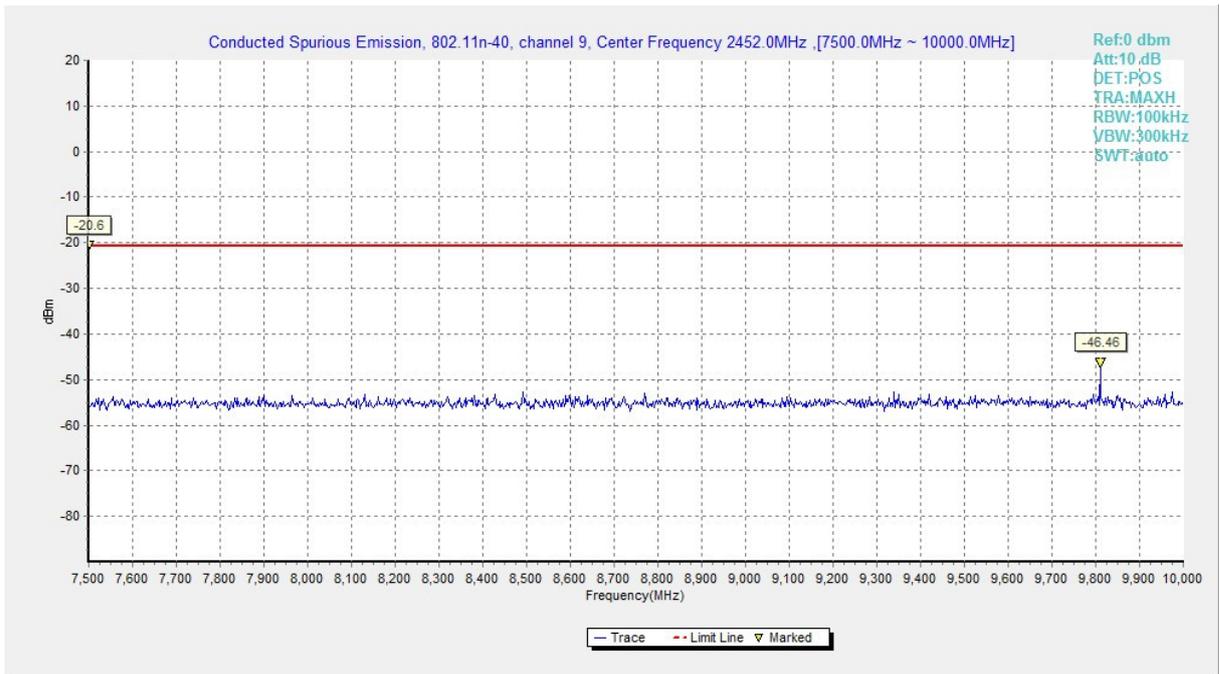


Fig.A.6.1.93 Conducted Spurious Emission (802.11n-HT40, Ch9, 7.5 GHz-10 GHz)

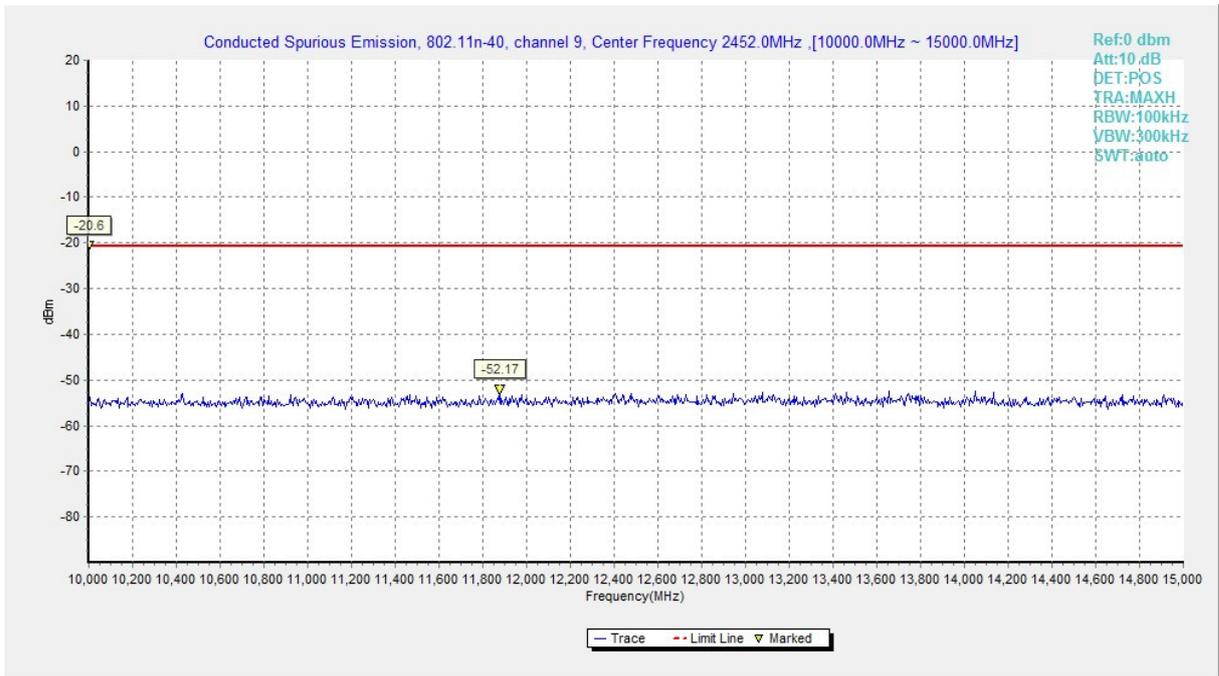


Fig.A.6.1.94 Conducted Spurious Emission (802.11n-HT40, Ch9, 10 GHz-15 GHz)

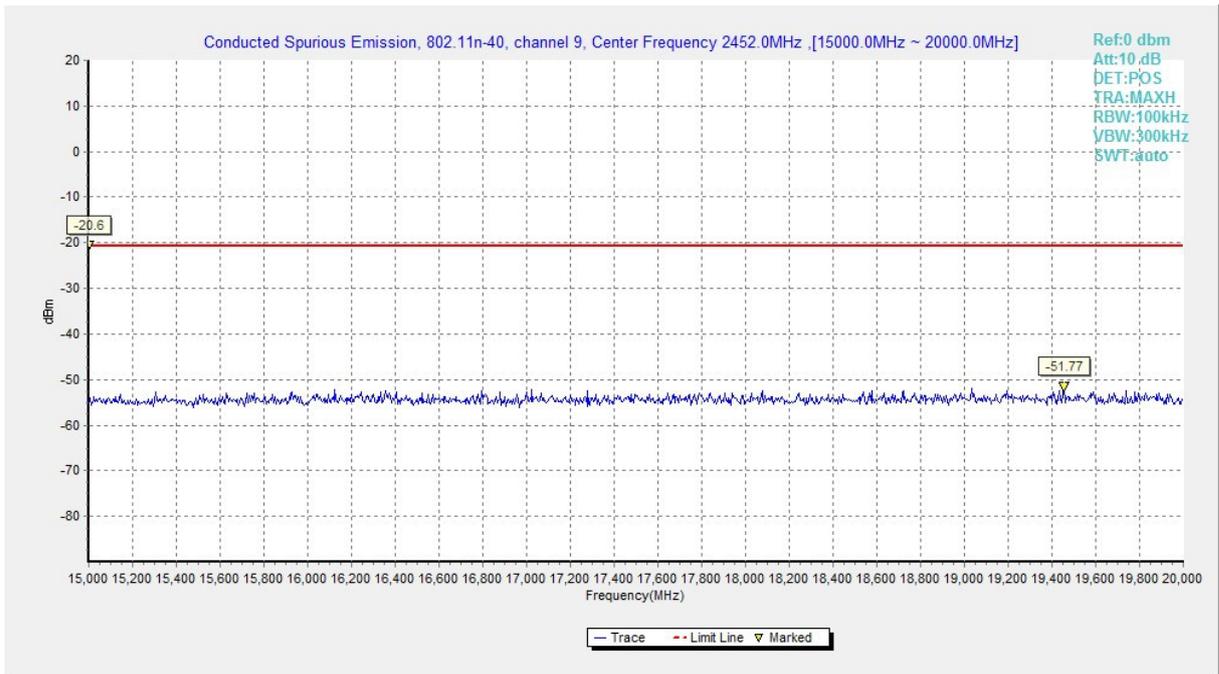


Fig.A.6.1.95 Conducted Spurious Emission (802.11n-HT40, Ch9, 15 GHz-20 GHz)

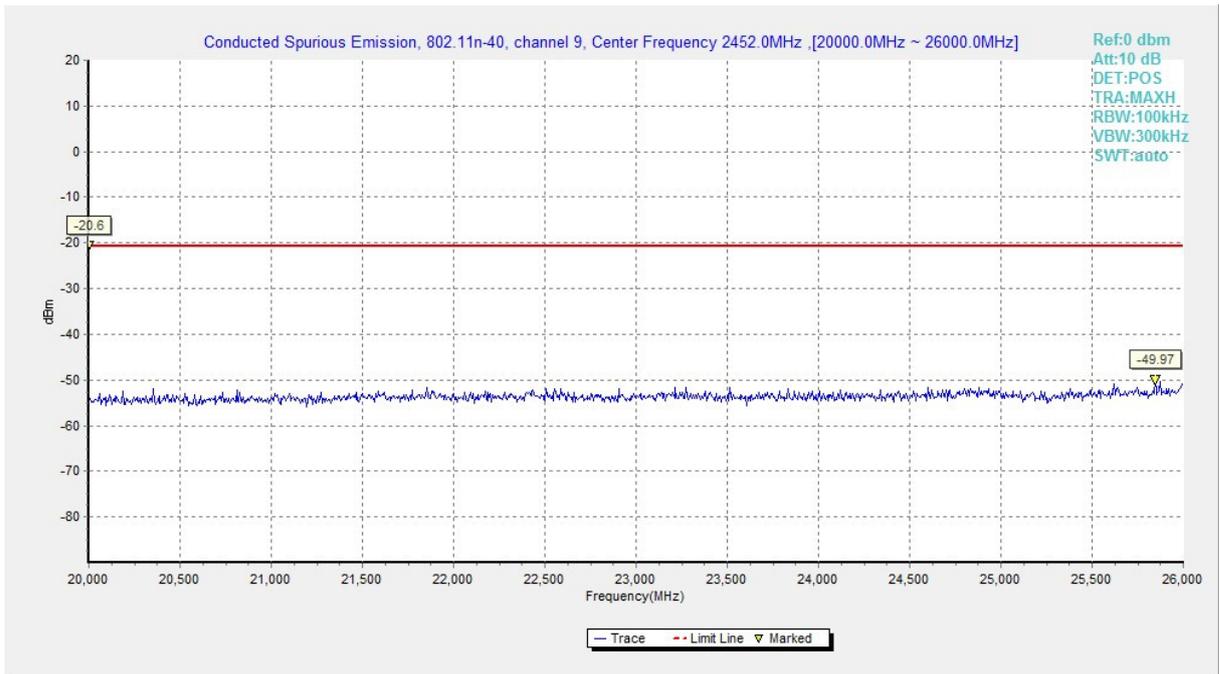


Fig.A.6.1.96 Conducted Spurious Emission (802.11n-HT40, Ch9, 20 GHz-26 GHz)

A.6.2 Transmitter Spurious Emission - Radiated

Measurement Limit:

| Standard | Limit |
|--|------------------------------|
| FCC 47 CFR Part 15.247, 15.205, 15.209 | 20dB below peak output power |

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)). The measurement is made according to KDB558074.

Limit in restricted band:

| Frequency of emission (MHz) | Field strength(uV/m) | Field strength(dBuV/m) |
|-----------------------------|----------------------|------------------------|
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

| Frequency of emission (MHz) | RBW/VBW | Sweep Time(s) |
|-----------------------------|---------------|---------------|
| 30-1000 | 100KHz/300KHz | 5 |
| 1000-4000 | 1MHz/1MHz | 15 |
| 4000-18000 | 1MHz/1MHz | 40 |
| 18000-26500 | 1MHz/1MHz | 20 |

EUT ID:EUT1

Modulation type and data rate tested:

| | | | |
|-------------|--------------|--------------|--------------|
| 802.11b | 802.11g | 802.11n-HT20 | 802.11n-HT40 |
| 11Mbps(CCK) | 24Mbps(OFDM) | MCS3(OFDM) | MCS3(OFDM) |

Measurement Results:

802.11b mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|---------|---------|------------------|--------------|------------|
| 802.11b | Power | 2.38GHz ~2.45GHz | Fig.A.6.2.1 | P |
| | 1 | 1 GHz ~ 3 GHz | Fig.A.6.2.2 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.3 | P |
| | 6 | 30 MHz ~1 GHz | Fig.A.6.2.4 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.5 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.6 | P |
| | | 18 GHz~ 26.5 GHz | Fig.A.6.2.7 | P |
| | Power | 2.45GHz ~2.5GHz | Fig.A.6.2.8 | P |
| | 11 | 1 GHz ~ 3 GHz | Fig.A.6.2.9 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.10 | P |

802.11g mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|---------|---------|------------------|--------------|------------|
| 802.11g | Power | 2.38GHz ~2.43GHz | Fig.A.6.2.11 | P |
| | 1 | 1 GHz ~ 3 GHz | Fig.A.6.2.12 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.13 | P |
| | 6 | 30 MHz ~1 GHz | Fig.A.6.2.14 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.15 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.16 | P |
| | | 18 GHz~ 26.5 GHz | Fig.A.6.2.17 | P |
| | Power | 2.45GHz ~2.5GHz | Fig.A.6.2.18 | P |
| | 11 | 1 GHz ~ 3 GHz | Fig.A.6.2.19 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.20 | P |

802.11n-HT20 mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|-------------------|---------|------------------|--------------|------------|
| 802.11n (HT20) | Power | 2.38GHz ~2.45GHz | Fig.A.6.2.21 | P |
| | 1 | 1 GHz ~ 3 GHz | Fig.A.6.2.22 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.23 | P |
| | 6 | 30 MHz ~1 GHz | Fig.A.6.2.24 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.25 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.26 | P |
| | | 18 GHz~ 26.5 GHz | Fig.A.6.2.27 | P |
| | Power | 2.45GHz ~2.5GHz | Fig.A.6.2.28 | P |
| | 11 | 1 GHz ~ 3 GHz | Fig.A.6.2.29 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.30 | P |

802.11n-HT40 mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|-------------------|---------|------------------|--------------|------------|
| 802.11n (HT40) | Power | 2.38GHz ~2.45GHz | Fig.A.6.2.31 | P |
| | 3 | 1 GHz ~ 3 GHz | Fig.A.6.2.32 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.33 | P |
| | 6 | 30 MHz ~1 GHz | Fig.A.6.2.34 | P |
| | | 1 GHz ~ 3 GHz | Fig.A.6.2.35 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.36 | P |
| | | 18 GHz~ 26.5 GHz | Fig.A.6.2.37 | P |
| | Power | 2.45GHz ~2.5GHz | Fig.A.6.2.38 | P |
| | 9 | 1 GHz ~ 3 GHz | Fig.A.6.2.39 | P |
| | | 3 GHz ~ 18 GHz | Fig.A.6.2.40 | P |

Conclusion: Pass

Measurement Uncertainty:

| Frequency Range | Uncertainty(dB) |
|-----------------|-----------------|
| f ≤ 1GHz | 3.9 |
| f >1GHz | 4.3 |

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$

802.11b

Ch1-Peak

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P_{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|--------------------|--------------|
| 2389.230 | 47.5 | -38.8 | 27.7 | 58.600 | V |
| 17998.500 | 56.1 | -17.7 | 45.6 | 28.200 | V |
| 17874.000 | 55.5 | -18.5 | 45.6 | 28.400 | V |
| 17986.500 | 55.5 | -17.7 | 45.6 | 27.600 | V |
| 17992.500 | 55.4 | -17.7 | 45.6 | 27.500 | V |
| 17994.000 | 55.4 | -17.7 | 45.6 | 27.500 | V |

Ch6 -Peak

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 17992.500 | 56.2 | -17.7 | 45.6 | 28.300 | V |
| 17866.500 | 56.1 | -18.5 | 45.6 | 29.000 | V |
| 17767.500 | 56.0 | -18.5 | 45.6 | 28.900 | V |
| 17959.500 | 55.8 | -17.7 | 45.6 | 27.900 | V |
| 17835.000 | 55.5 | -18.5 | 45.6 | 28.400 | V |
| 17815.500 | 55.3 | -18.5 | 45.6 | 28.200 | V |

Ch11 -Peak

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2483.625 | 49.8 | -38.9 | 27.7 | 61.000 | V |
| 17980.500 | 55.9 | -17.7 | 45.6 | 28.000 | V |
| 17955.000 | 55.3 | -17.7 | 45.6 | 27.400 | V |
| 17989.500 | 55.2 | -17.7 | 45.6 | 27.300 | V |
| 17811.000 | 55.2 | -18.5 | 45.6 | 28.100 | H |
| 17992.500 | 55.1 | -17.7 | 45.6 | 27.200 | V |

802.11g

Ch1 -Peak

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2389.156 | 57.8 | -38.8 | 27.7 | 68.900 | V |
| 17979.000 | 56.8 | -17.7 | 45.6 | 28.900 | V |
| 17571.000 | 56.6 | -18.9 | 45.6 | 29.900 | V |
| 17976.000 | 56.5 | -17.7 | 45.6 | 28.600 | V |
| 17991.000 | 56.0 | -17.7 | 45.6 | 28.100 | V |
| 17728.500 | 55.9 | -18.9 | 45.6 | 29.200 | V |

Ch6 -Peak

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 17970.000 | 55.6 | -17.7 | 45.6 | 27.700 | V |
| 17991.000 | 55.5 | -17.7 | 45.6 | 27.600 | V |
| 17992.500 | 55.3 | -17.7 | 45.6 | 27.400 | V |
| 17938.500 | 55.2 | -17.7 | 45.6 | 27.300 | H |
| 17985.000 | 55.1 | -17.7 | 45.6 | 27.200 | V |
| 17986.500 | 54.9 | -17.7 | 45.6 | 27.000 | V |

Ch11 -Peak

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2483.525 | 65.1 | -38.9 | 27.7 | 76.300 | V |
| 17988.000 | 55.3 | -17.7 | 45.6 | 27.400 | V |
| 17995.500 | 55.0 | -17.7 | 45.6 | 27.100 | V |
| 17956.500 | 54.8 | -17.7 | 45.6 | 26.900 | H |
| 18000.000 | 54.8 | -17.7 | 44.5 | 28.000 | V |
| 17998.500 | 54.6 | -17.7 | 45.6 | 26.700 | V |

802.11n-HT20

Ch1 -Peak

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2389.580 | 66.9 | -38.8 | 27.7 | 78.000 | V |
| 17991.000 | 55.0 | -17.7 | 45.6 | 27.100 | H |
| 17937.000 | 54.7 | -17.7 | 45.6 | 26.800 | V |
| 17994.000 | 54.6 | -17.7 | 45.6 | 26.700 | V |
| 17967.000 | 54.5 | -17.7 | 45.6 | 26.600 | H |
| 17985.000 | 54.5 | -17.7 | 45.6 | 26.600 | V |

Ch6 -Peak

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 17994.000 | 55.3 | -17.7 | 45.6 | 27.400 | V |
| 17991.000 | 55.3 | -17.7 | 45.6 | 27.400 | V |
| 18000.000 | 55.1 | -17.7 | 44.5 | 28.300 | V |
| 17626.500 | 54.9 | -18.9 | 45.6 | 28.200 | V |
| 17643.000 | 54.8 | -18.9 | 45.6 | 28.100 | V |
| 17944.500 | 54.8 | -17.7 | 45.6 | 26.900 | V |

Ch11 -Peak

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2483.500 | 69.3 | -38.9 | 27.7 | 80.500 | V |
| 17985.000 | 55.2 | -17.7 | 45.6 | 27.300 | V |
| 17983.500 | 55.0 | -17.7 | 45.6 | 27.100 | H |
| 17980.500 | 54.9 | -17.7 | 45.6 | 27.000 | V |
| 17803.500 | 54.9 | -18.5 | 45.6 | 27.800 | V |
| 17934.000 | 54.9 | -17.7 | 45.6 | 27.000 | H |

802.11n-HT40

Ch3 -Peak

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2388.356 | 66.7 | -38.8 | 27.7 | 77.800 | V |
| 17991.000 | 55.9 | -17.7 | 45.6 | 28.000 | V |
| 17953.500 | 55.8 | -17.7 | 45.6 | 27.900 | H |
| 17982.000 | 55.2 | -17.7 | 45.6 | 27.300 | V |
| 17998.500 | 55.1 | -17.7 | 45.6 | 27.200 | V |
| 17989.500 | 54.9 | -17.7 | 45.6 | 27.000 | V |

Ch6 -Peak

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 17988.000 | 55.6 | -17.7 | 45.6 | 27.700 | V |
| 17949.000 | 55.5 | -17.7 | 45.6 | 27.600 | V |
| 17998.500 | 55.5 | -17.7 | 45.6 | 27.600 | V |
| 18000.000 | 55.3 | -17.7 | 44.5 | 28.500 | H |
| 17997.000 | 55.2 | -17.7 | 45.6 | 27.300 | H |
| 17980.500 | 55.2 | -17.7 | 45.6 | 27.300 | V |

Ch9 -Peak

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2483.731 | 64.4 | -38.9 | 27.7 | 75.600 | V |
| 17997.000 | 56.5 | -17.7 | 45.6 | 28.600 | V |
| 17994.000 | 54.8 | -17.7 | 45.6 | 26.900 | V |
| 17970.000 | 54.7 | -17.7 | 45.6 | 26.800 | V |
| 17995.500 | 54.7 | -17.7 | 45.6 | 26.800 | H |
| 17967.000 | 54.7 | -17.7 | 45.6 | 26.800 | V |

802.11b

Ch1-Average

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2390.000 | 35.3 | -38.8 | 27.7 | 46.400 | V |
| 17994.000 | 44.5 | -17.7 | 45.6 | 16.600 | V |
| 17997.000 | 44.4 | -17.7 | 45.6 | 16.500 | V |
| 17998.500 | 44.4 | -17.7 | 45.6 | 16.500 | V |
| 17991.000 | 44.3 | -17.7 | 45.6 | 16.400 | V |
| 17988.000 | 44.3 | -17.7 | 45.6 | 16.400 | H |

Ch6 -Average

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 17991.000 | 44.8 | -17.7 | 45.6 | 16.900 | V |
| 17997.000 | 44.5 | -17.7 | 45.6 | 16.600 | H |
| 17995.500 | 44.5 | -17.7 | 45.6 | 16.600 | V |
| 17994.000 | 44.4 | -17.7 | 45.6 | 16.500 | V |
| 17992.500 | 44.4 | -17.7 | 45.6 | 16.500 | H |
| 17998.500 | 44.3 | -17.7 | 45.6 | 16.400 | V |

Ch11 -Average

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2485.910 | 38.2 | -38.9 | 27.7 | 49.400 | V |
| 17992.500 | 44.6 | -17.7 | 45.6 | 16.700 | V |
| 17983.500 | 44.5 | -17.7 | 45.6 | 16.600 | V |
| 17998.500 | 44.4 | -17.7 | 45.6 | 16.500 | V |
| 17995.500 | 44.4 | -17.7 | 45.6 | 16.500 | H |
| 17988.000 | 44.4 | -17.7 | 45.6 | 16.500 | V |

802.11g

Ch1 -Average

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2390.000 | 39.8 | -38.8 | 27.7 | 50.900 | V |
| 17988.000 | 45.2 | -17.7 | 45.6 | 17.300 | H |
| 17995.500 | 45.0 | -17.7 | 45.6 | 17.100 | V |
| 18000.000 | 45.0 | -17.7 | 44.5 | 18.200 | V |
| 17998.500 | 44.9 | -17.7 | 45.6 | 17.000 | V |
| 17991.000 | 44.9 | -17.7 | 45.6 | 17.000 | H |

Ch6 -Average

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 17997.000 | 43.9 | -17.7 | 45.6 | 16.000 | V |
| 17983.500 | 43.9 | -17.7 | 45.6 | 16.000 | V |
| 17998.500 | 43.8 | -17.7 | 45.6 | 15.900 | V |
| 17982.000 | 43.7 | -17.7 | 45.6 | 15.800 | V |
| 17988.000 | 43.7 | -17.7 | 45.6 | 15.800 | V |
| 17979.000 | 43.7 | -17.7 | 45.6 | 15.800 | V |

Ch11-Average

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2483.500 | 44.2 | -38.9 | 27.7 | 55.400 | V |
| 17985.000 | 43.8 | -17.7 | 45.6 | 15.900 | V |
| 17988.000 | 43.8 | -17.7 | 45.6 | 15.900 | V |
| 17994.000 | 43.7 | -17.7 | 45.6 | 15.800 | V |
| 17995.500 | 43.7 | -17.7 | 45.6 | 15.800 | V |
| 17991.000 | 43.7 | -17.7 | 45.6 | 15.800 | V |

802.11n-HT20

Ch1 -Average

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2390.000 | 44.9 | -38.8 | 27.7 | 56.000 | V |
| 17994.000 | 44.0 | -17.7 | 45.6 | 16.100 | V |
| 17988.000 | 43.8 | -17.7 | 45.6 | 15.900 | H |
| 17995.500 | 43.7 | -17.7 | 45.6 | 15.800 | V |
| 17991.000 | 43.7 | -17.7 | 45.6 | 15.800 | V |
| 17992.500 | 43.6 | -17.7 | 45.6 | 15.700 | V |

Ch6-Average

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 17994.000 | 44.0 | -17.7 | 45.6 | 16.100 | V |
| 17985.000 | 44.0 | -17.7 | 45.6 | 16.100 | V |
| 17991.000 | 43.8 | -17.7 | 45.6 | 15.900 | V |
| 18000.000 | 43.8 | -17.7 | 44.5 | 17.000 | V |
| 17997.000 | 43.7 | -17.7 | 45.6 | 15.800 | H |
| 17988.000 | 43.7 | -17.7 | 45.6 | 15.800 | V |

Ch11-Average

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2483.500 | 46.3 | -38.9 | 27.7 | 57.500 | V |
| 17988.000 | 43.9 | -17.7 | 45.6 | 16.000 | H |
| 17997.000 | 43.9 | -17.7 | 45.6 | 16.000 | V |
| 17985.000 | 43.9 | -17.7 | 45.6 | 16.000 | H |
| 17994.000 | 43.8 | -17.7 | 45.6 | 15.900 | V |
| 17991.000 | 43.7 | -17.7 | 45.6 | 15.800 | V |

802.11n-HT40

Ch3 -Average

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2390.000 | 42.6 | -38.8 | 27.7 | 53.700 | V |
| 17994.000 | 44.2 | -17.7 | 45.6 | 16.300 | V |
| 17988.000 | 44.0 | -17.7 | 45.6 | 16.100 | V |
| 17991.000 | 44.0 | -17.7 | 45.6 | 16.100 | V |
| 17997.000 | 43.9 | -17.7 | 45.6 | 16.000 | H |
| 17986.500 | 43.8 | -17.7 | 45.6 | 15.900 | V |

Ch6-Average

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 17994.000 | 44.2 | -17.7 | 45.6 | 16.300 | H |
| 17989.500 | 44.0 | -17.7 | 45.6 | 16.100 | V |
| 17988.000 | 44.0 | -17.7 | 45.6 | 16.100 | V |
| 17985.000 | 44.0 | -17.7 | 45.6 | 16.100 | V |
| 17991.000 | 43.9 | -17.7 | 45.6 | 16.000 | V |
| 17995.500 | 43.9 | -17.7 | 45.6 | 16.000 | V |

Ch9 -Average

| Frequency(MHz) | Result (dBuV/m) | Cable Loss(dB) | Antenna Factor | P _{Mea} (dBuV/m) | Polarization |
|----------------|-----------------|----------------|----------------|---------------------------|--------------|
| 2483.500 | 40.5 | -38.9 | 27.7 | 51.700 | V |
| 17994.000 | 44.1 | -17.7 | 45.6 | 16.200 | H |
| 18000.000 | 44.1 | -17.7 | 44.5 | 17.300 | V |
| 17991.000 | 44.0 | -17.7 | 45.6 | 16.100 | V |
| 17983.500 | 44.0 | -17.7 | 45.6 | 16.100 | V |
| 17995.500 | 44.0 | -17.7 | 45.6 | 16.100 | H |

Test graphs as below:

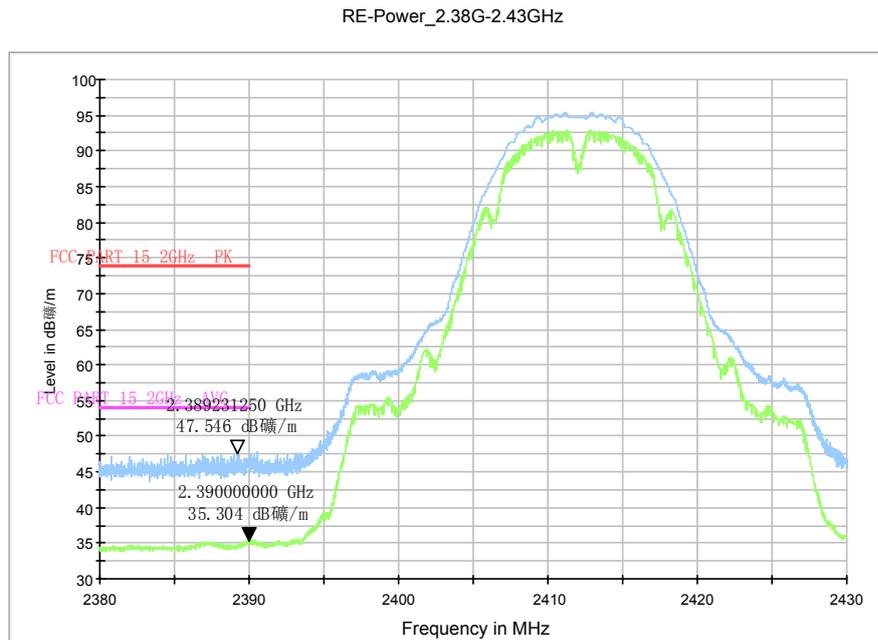


Fig.A.6.2.1 Radiated Spurious Emission (Power): 802.11b, ch1, 2.38 GHz – 2.45GHz

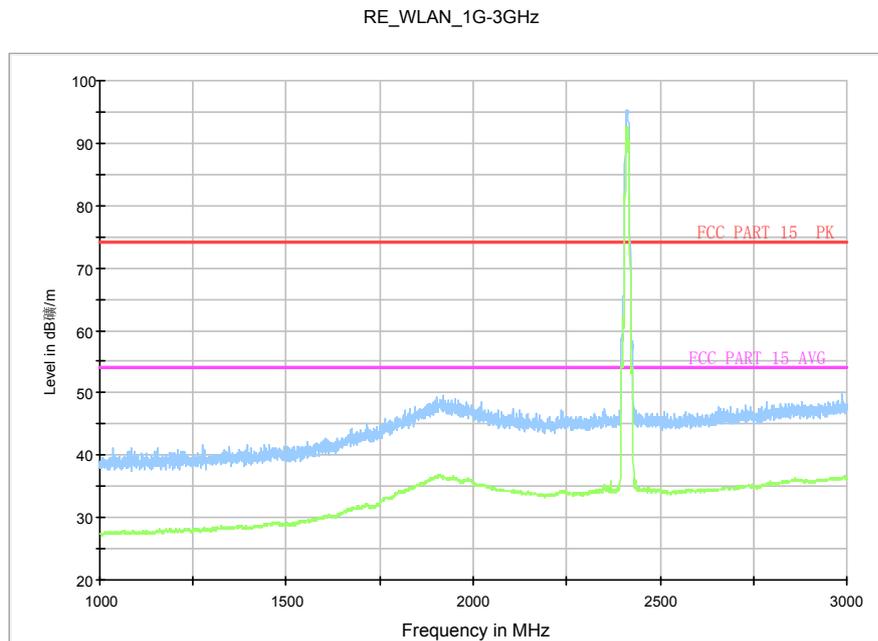


Fig.A.6.2.2 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-3 GHz)

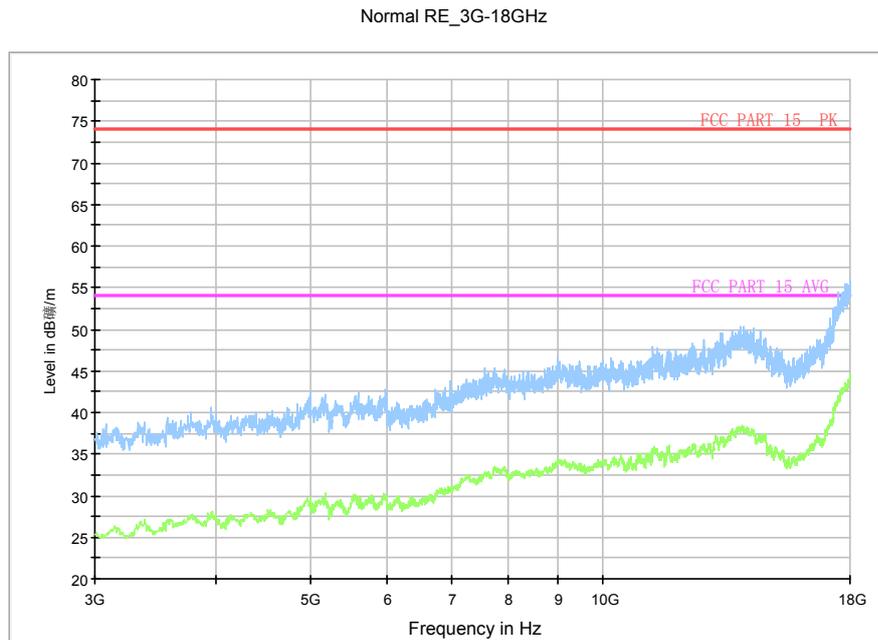


Fig.A.6.2.3 Radiated Spurious Emission (802.11b, Ch1, 3 GHz-18 GHz)

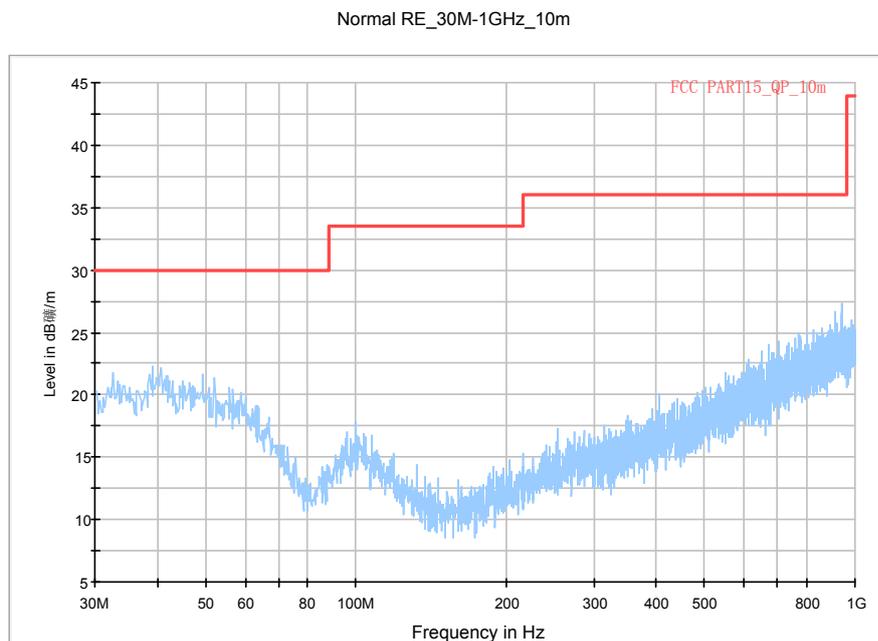


Fig.A.6.2.4 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)

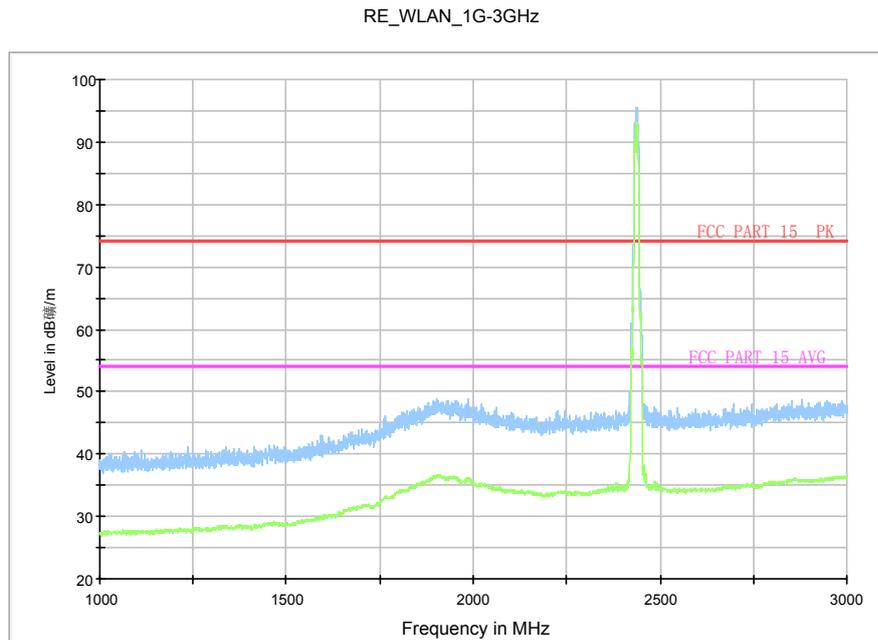


Fig.A.6.2.5 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-3 GHz)

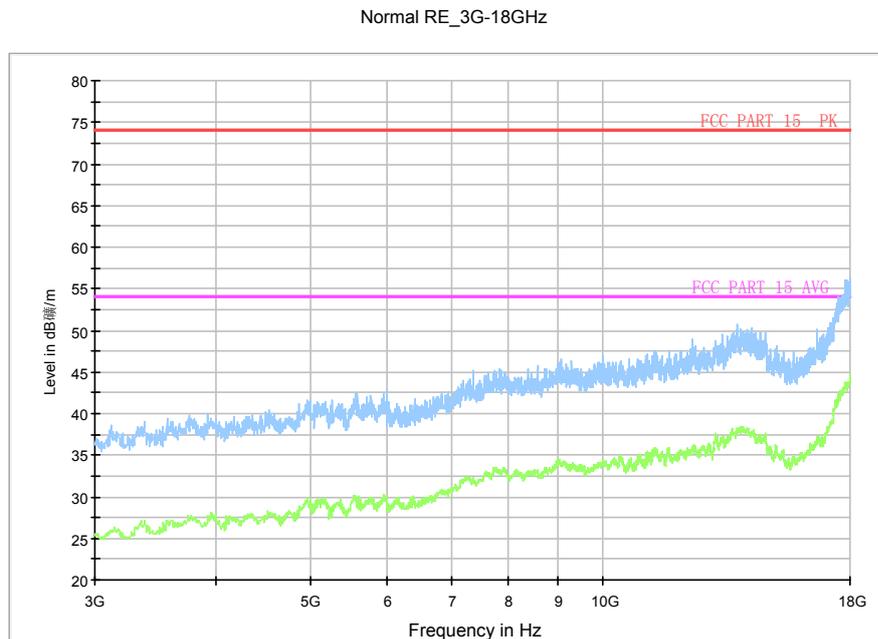


Fig.A.6.2.6 Radiated Spurious Emission (802.11b, Ch6, 3 GHz-18 GHz)

Normal RE_18G-26.5GHz

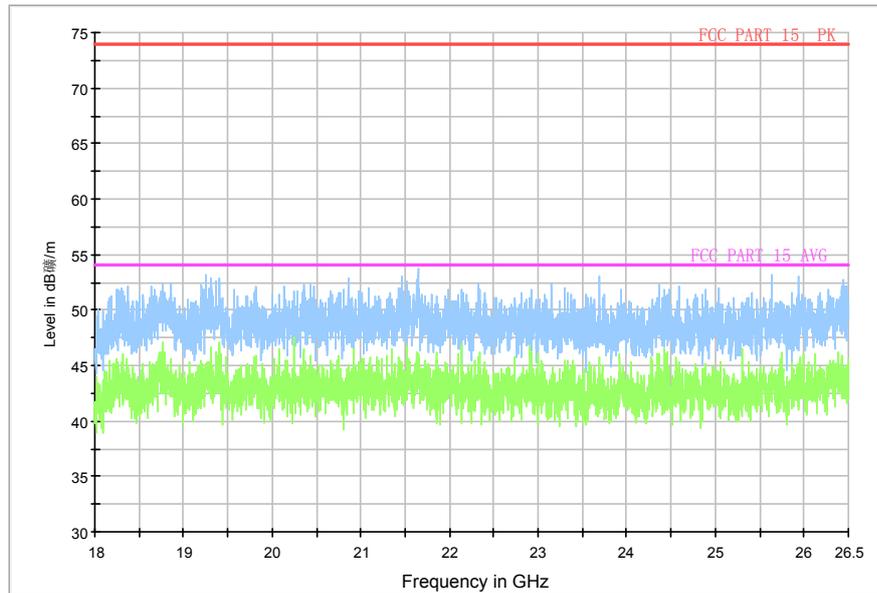


Fig.A.6.2.7 Radiated Spurious Emission (802.11b, Ch6, 18GHz – 26.5GHz)

RE-Power_2.45G-2.5GHz

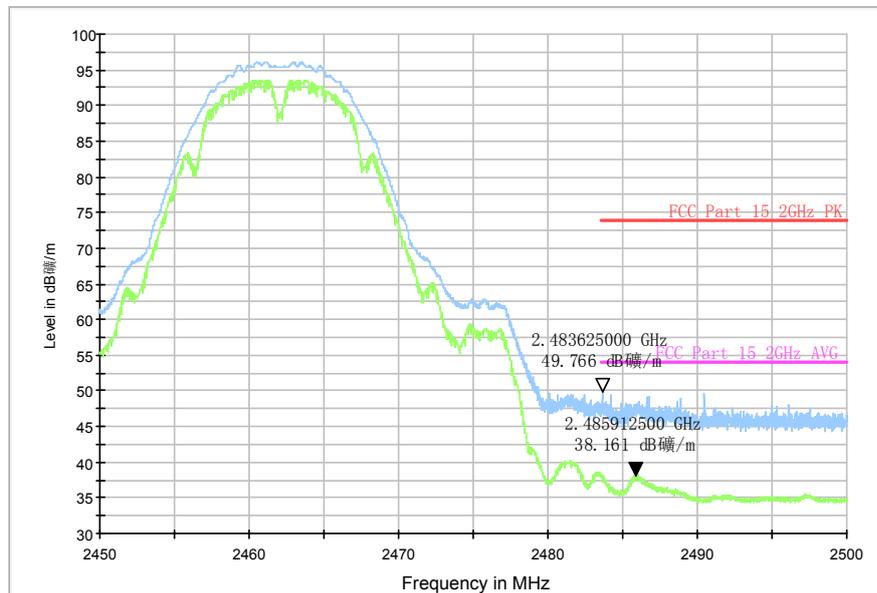


Fig.A.6.2.8 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

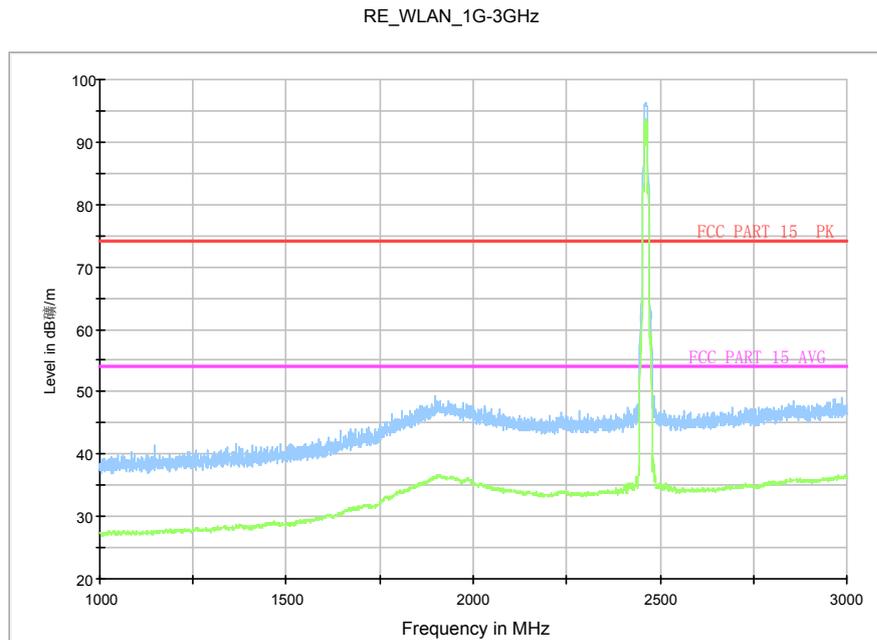


Fig.A.6.2.9 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-3 GHz)

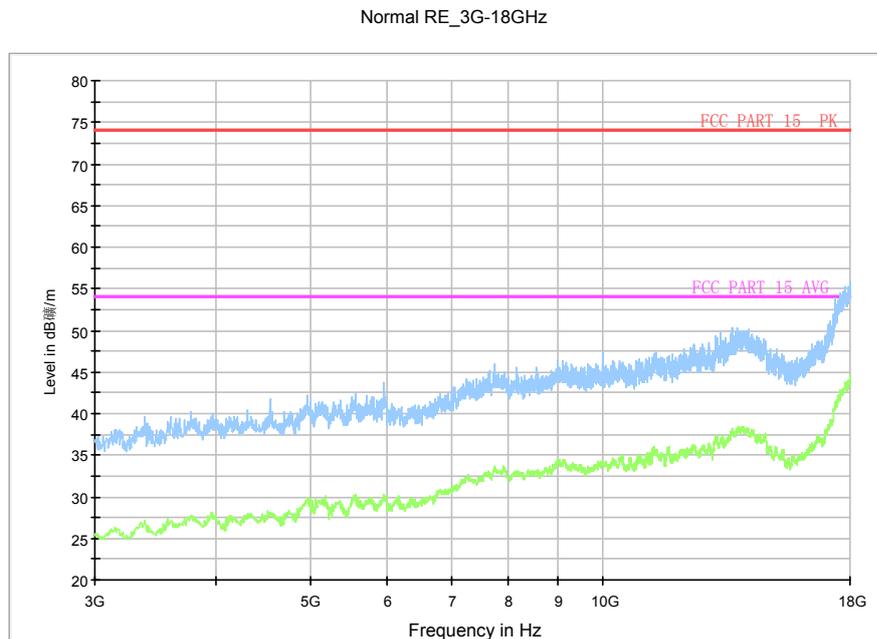


Fig.A.6.2.10 Radiated Spurious Emission (802.11b, Ch11, 3 GHz-18 GHz)

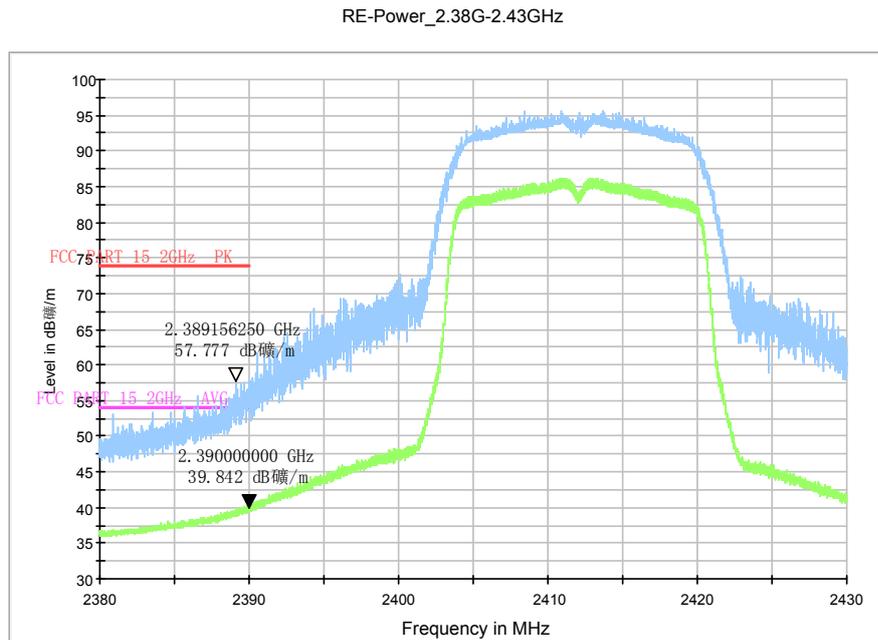


Fig.A.6.2.11 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

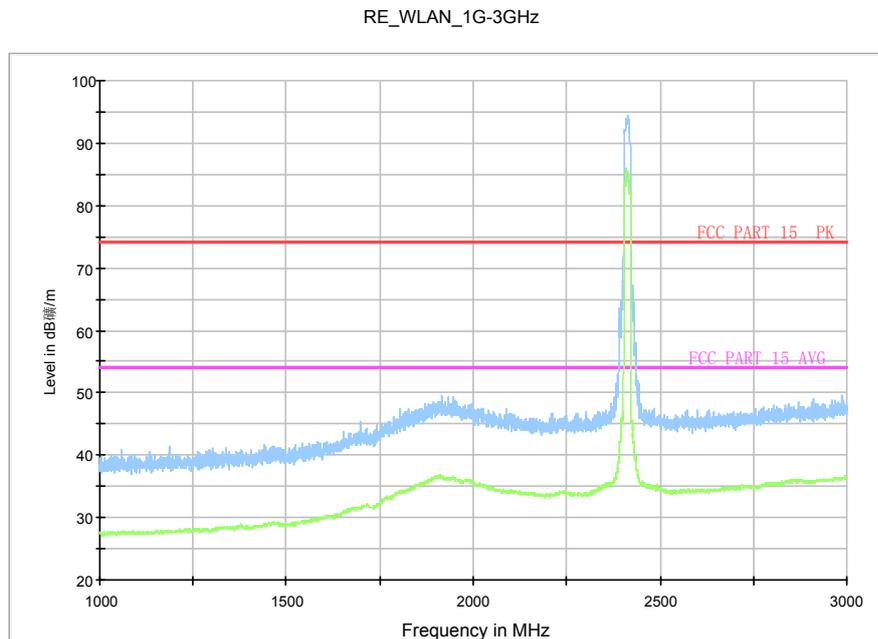


Fig.A.6.2.12 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-3 GHz)

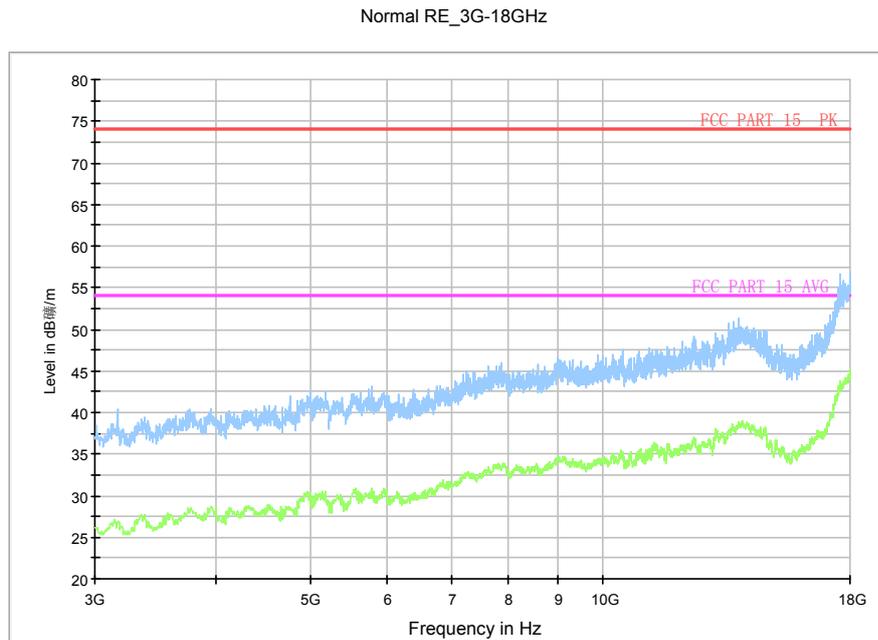


Fig.A.6.2.13 Radiated Spurious Emission (802.11g, Ch1, 3 GHz-18 GHz)

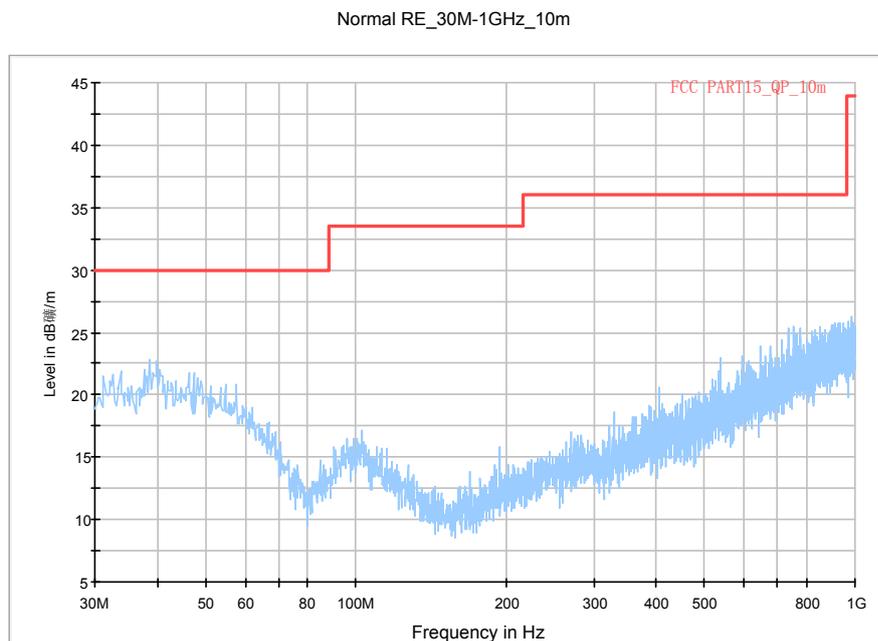


Fig.A.6.2.14 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)

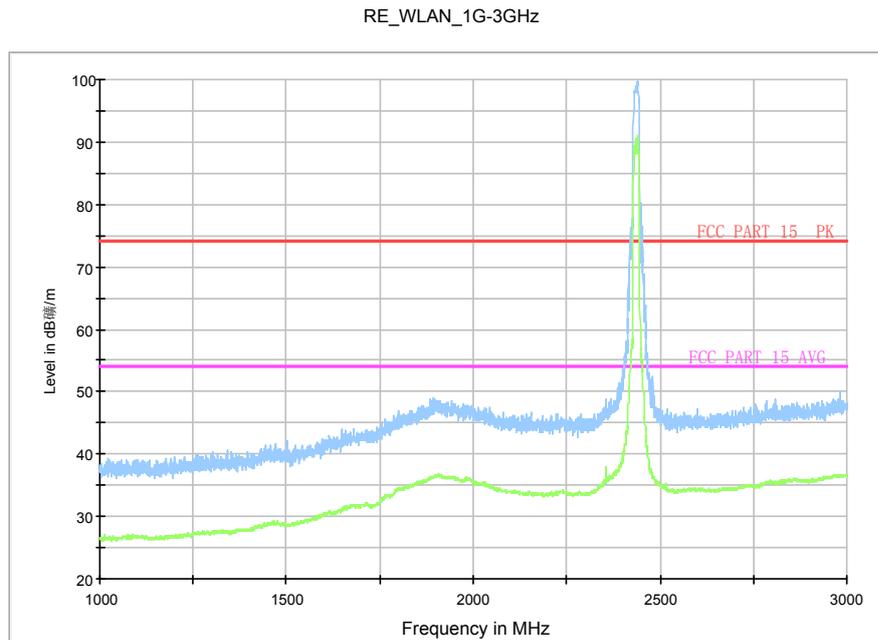


Fig.A.6.2.15 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-3 GHz)

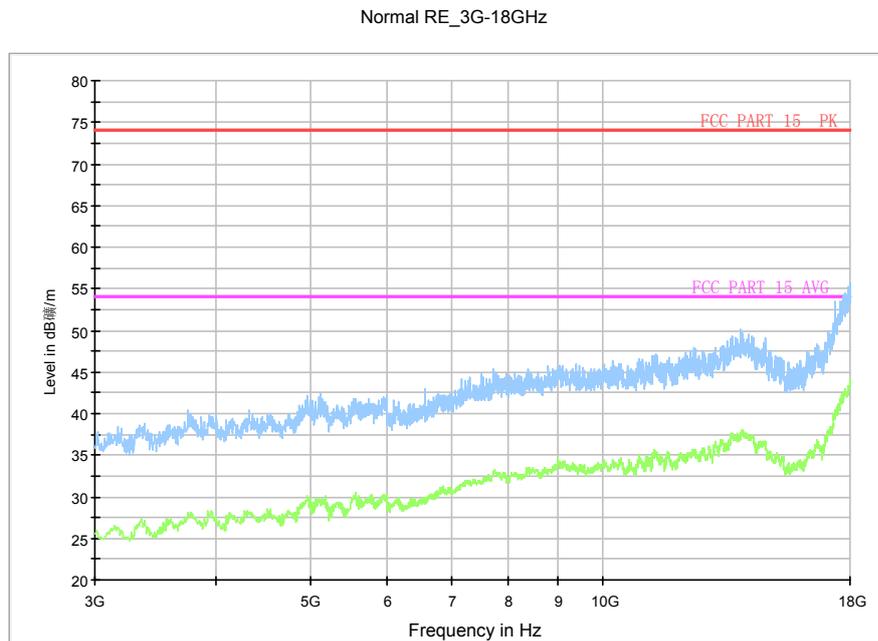


Fig.A.6.2.16 Radiated Spurious Emission (802.11g, Ch6, 3 GHz-18 GHz)

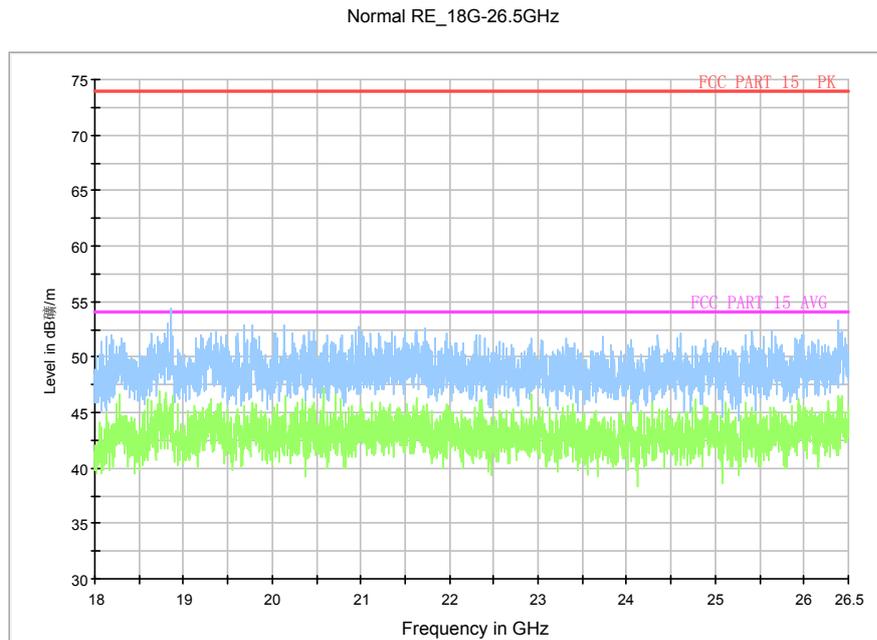


Fig.A.6.2.17 Radiated Spurious Emission (802.11g, Ch6, 18GHz – 26.5GHz)

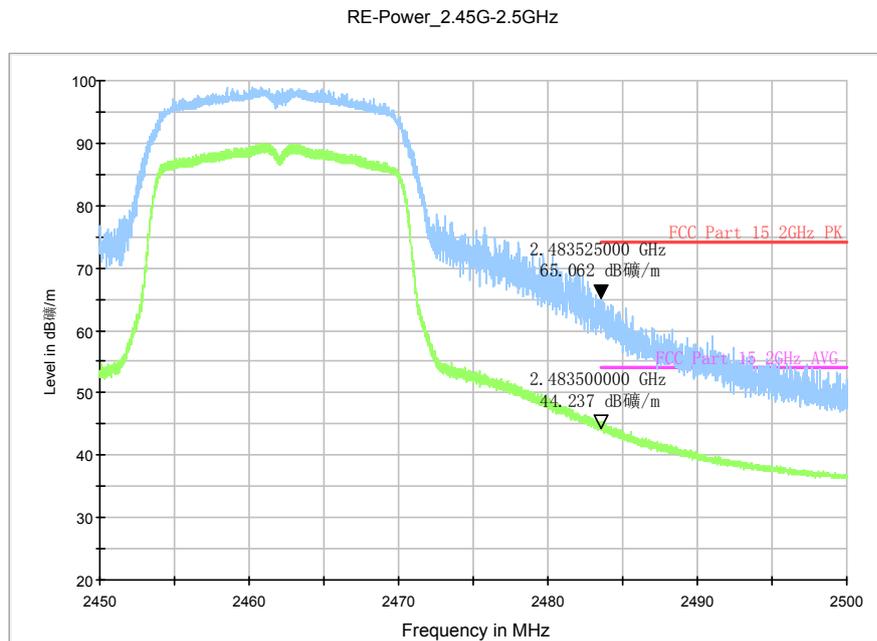


Fig.A.6.2.18 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

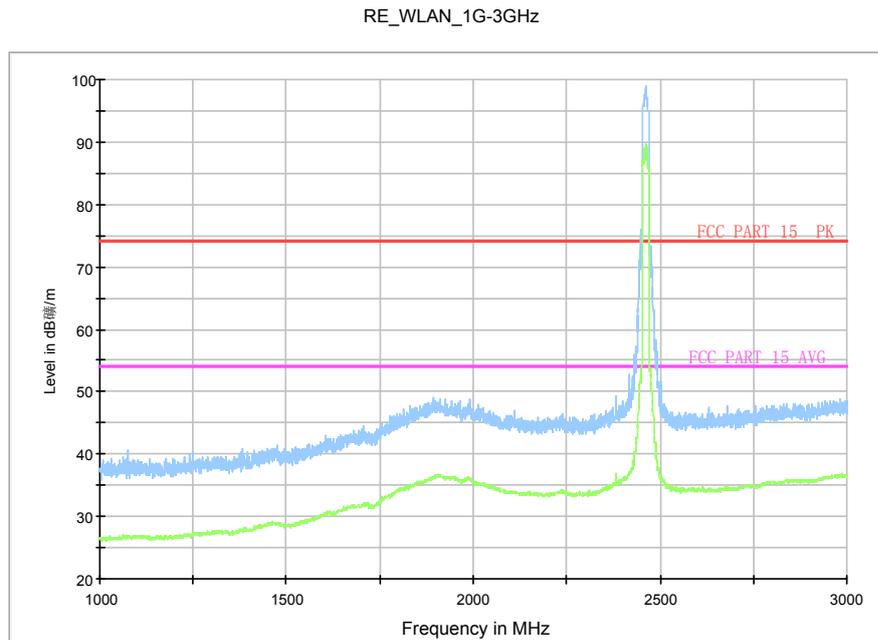


Fig.A.6.2.19 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-3 GHz)

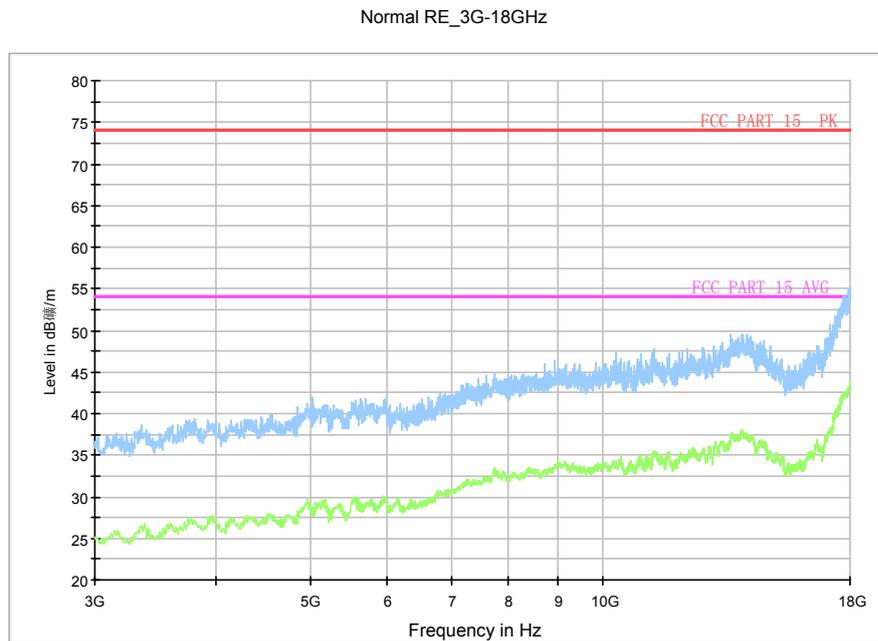


Fig.A.6.2.20 Radiated Spurious Emission (802.11g, Ch11, 3 GHz-18 GHz)

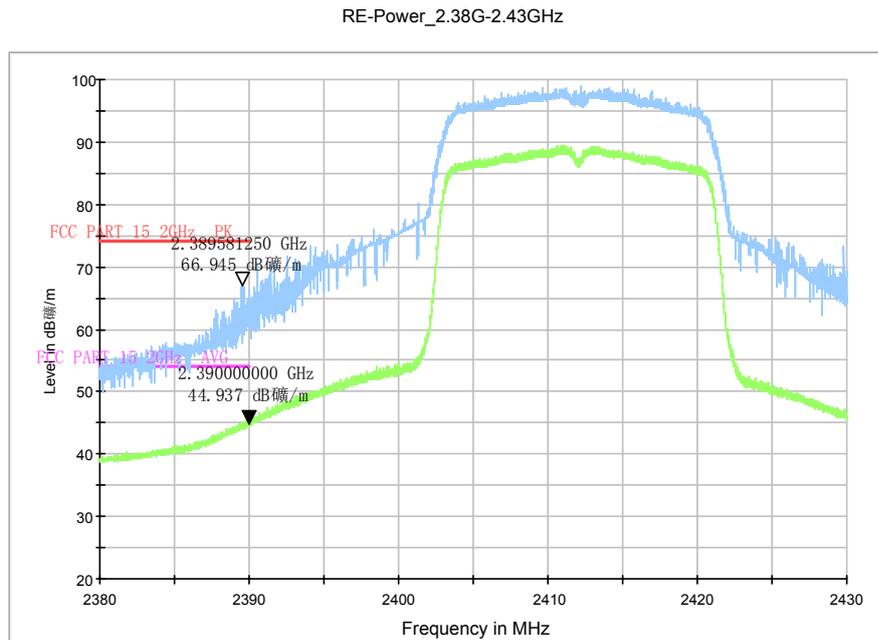


Fig.A.6.2.21 Radiated Spurious Emission (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

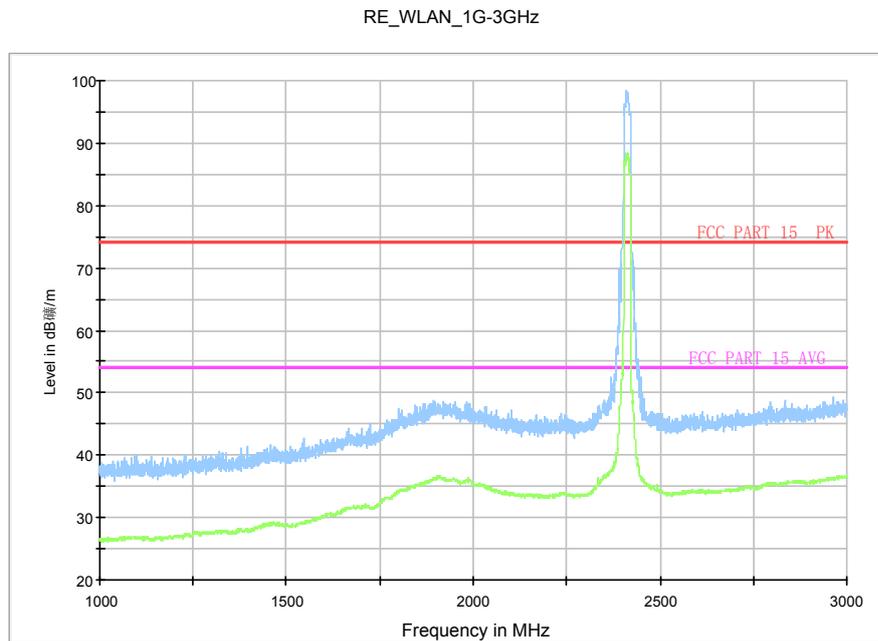


Fig.A.6.2.22 Radiated Spurious Emission (802.11n-HT20, Ch1, 1 GHz-3 GHz)

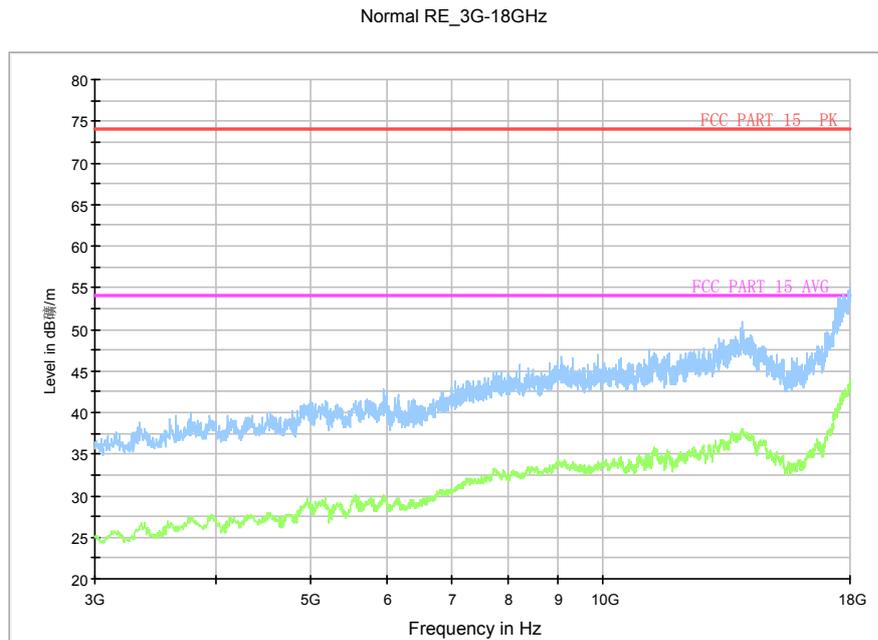


Fig.A.6.2.23 Radiated Spurious Emission (802.11n-HT20, Ch1, 3 GHz-18 GHz)

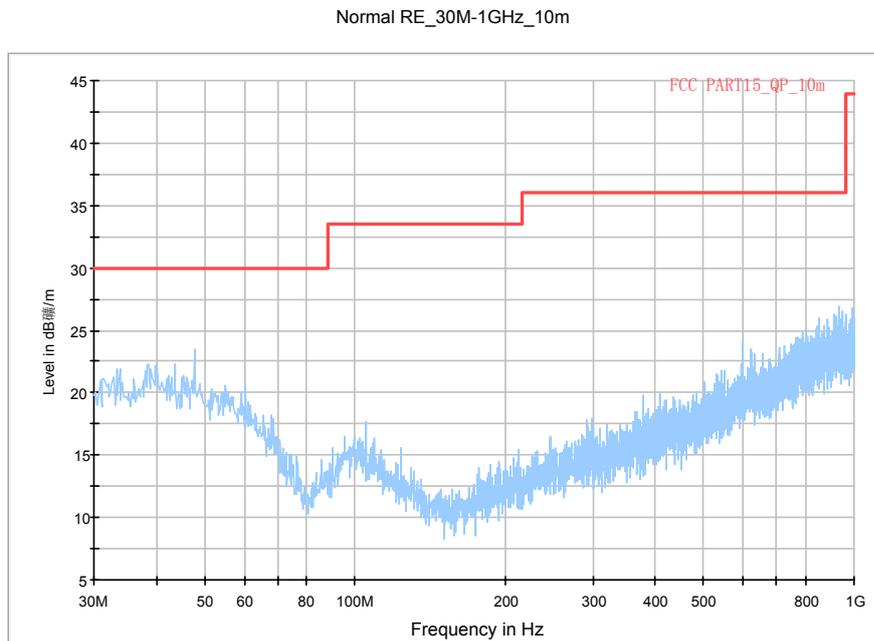


Fig.A.6.2.24 Radiated Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)

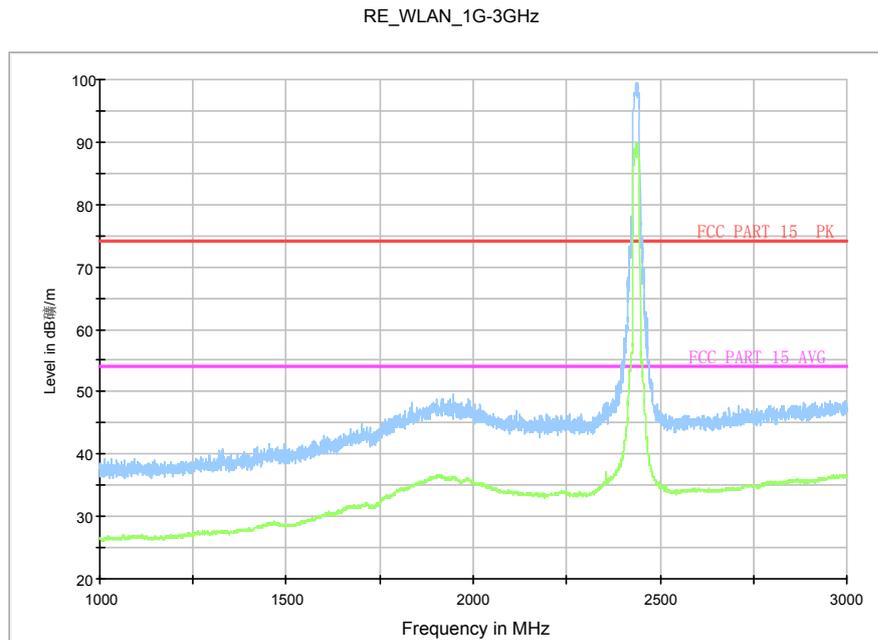


Fig.A.6.2.25 Radiated Spurious Emission (802.11n-HT20, Ch6, 1 GHz-3 GHz)

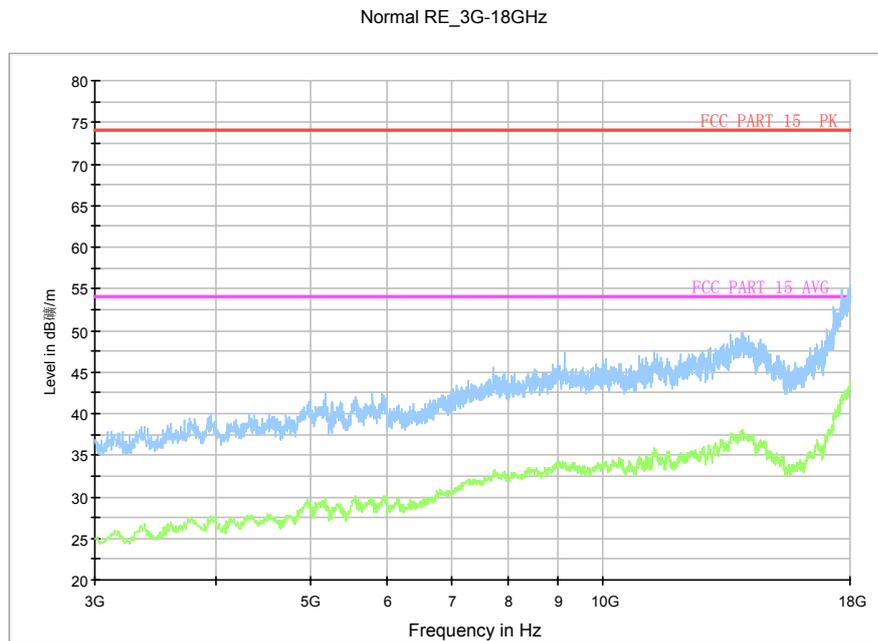


Fig.A.6.2.26 Radiated Spurious Emission (802.11n-HT20, Ch6, 3 GHz-18 GHz)

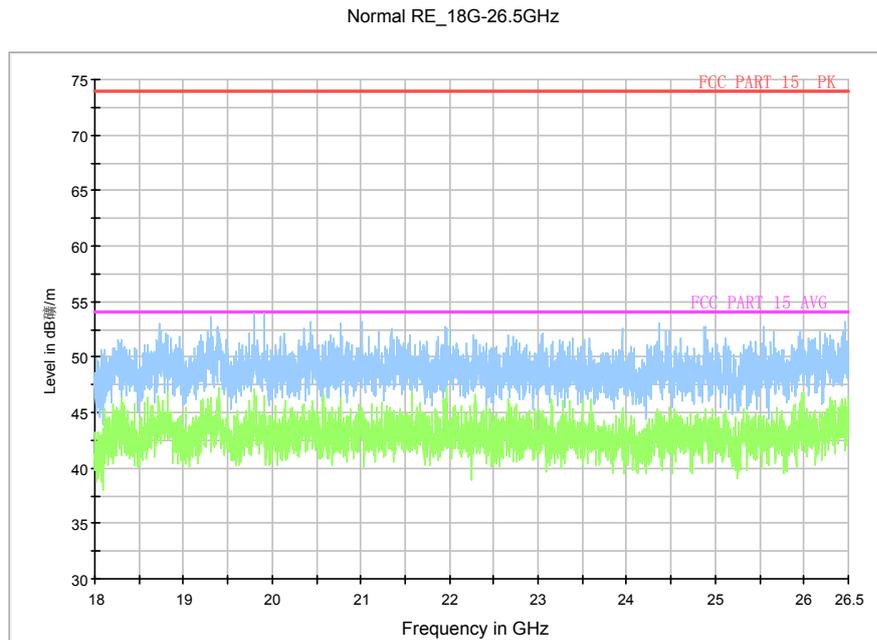


Fig.A.6.2.27 Radiated Spurious Emission (802.11n-HT20, Ch6, 18GHz – 26.5GHz)

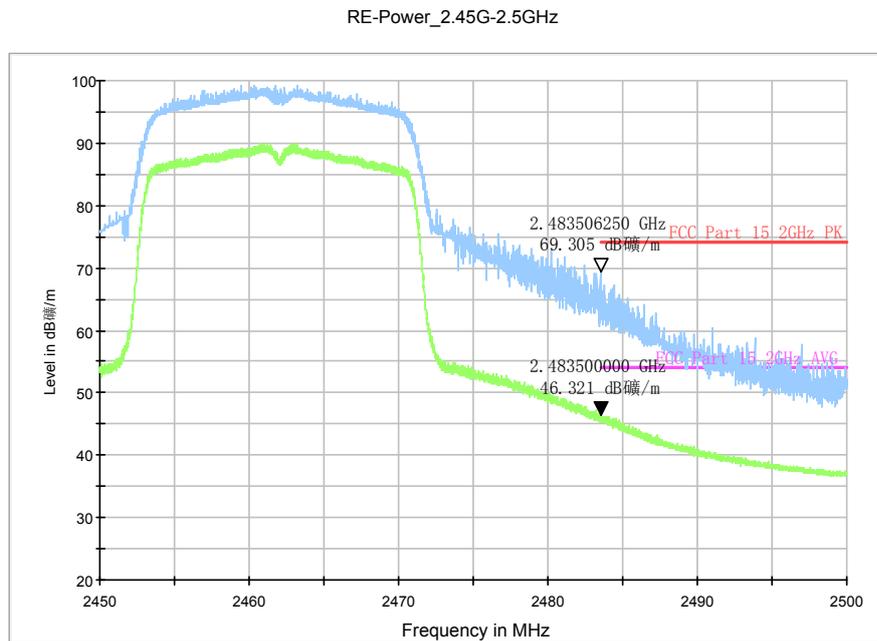


Fig.A.6.2.28 Radiated Spurious Emission (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

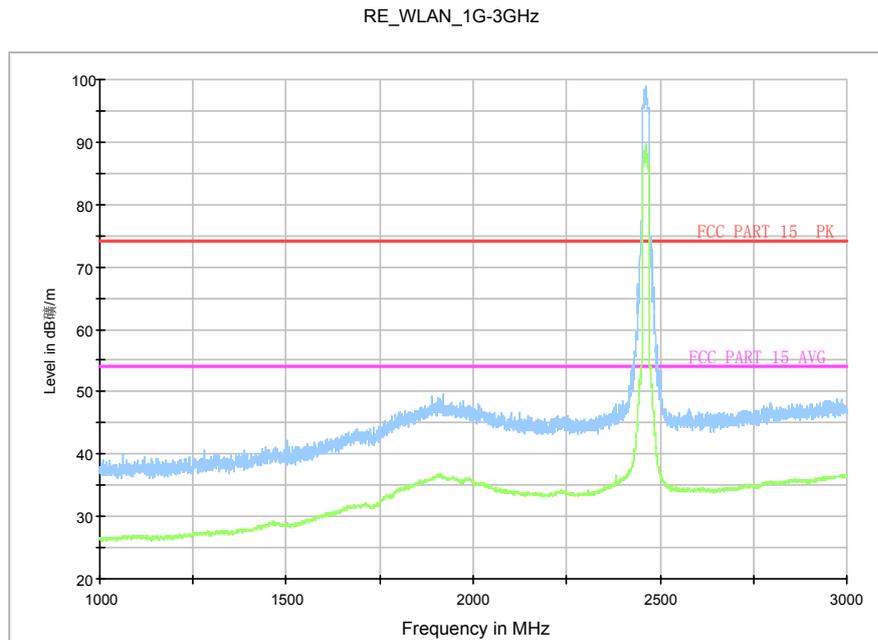


Fig.A.6.2.29 Radiated Spurious Emission (802.11n-HT20, Ch11, 1 GHz-3 GHz)

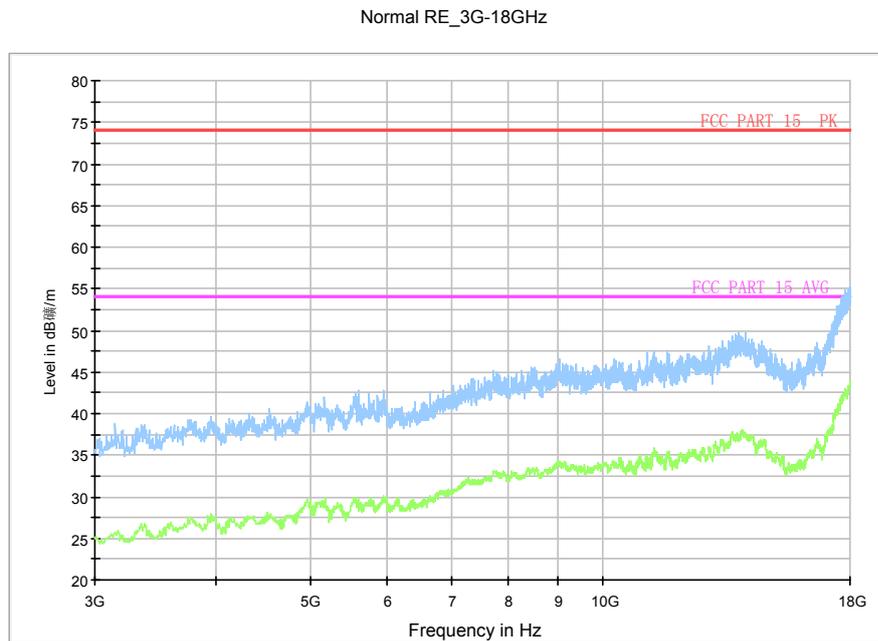


Fig.A.6.2.30 Radiated Spurious Emission (802.11n-HT20, Ch11, 3 GHz-18 GHz)

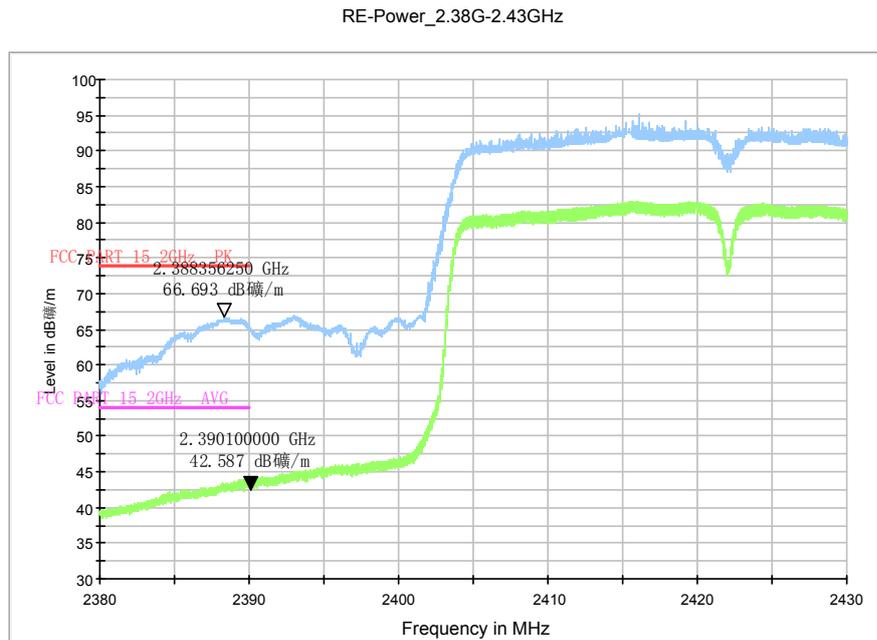


Fig.A.6.2.31 Radiated Spurious Emission (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.45GHz

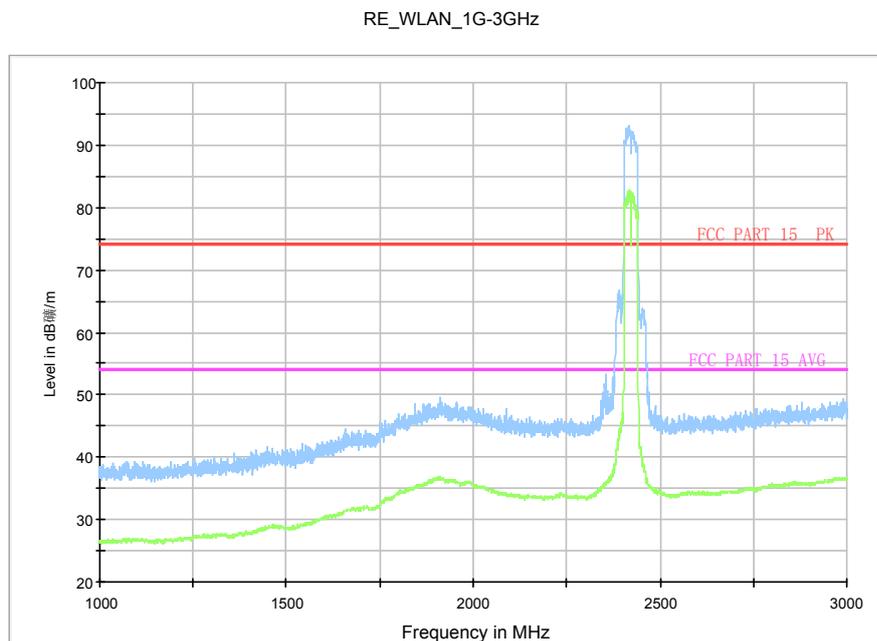


Fig.A.6.2.32 Radiated Spurious Emission (802.11n-HT40, ch3, 1 GHz-3 GHz)

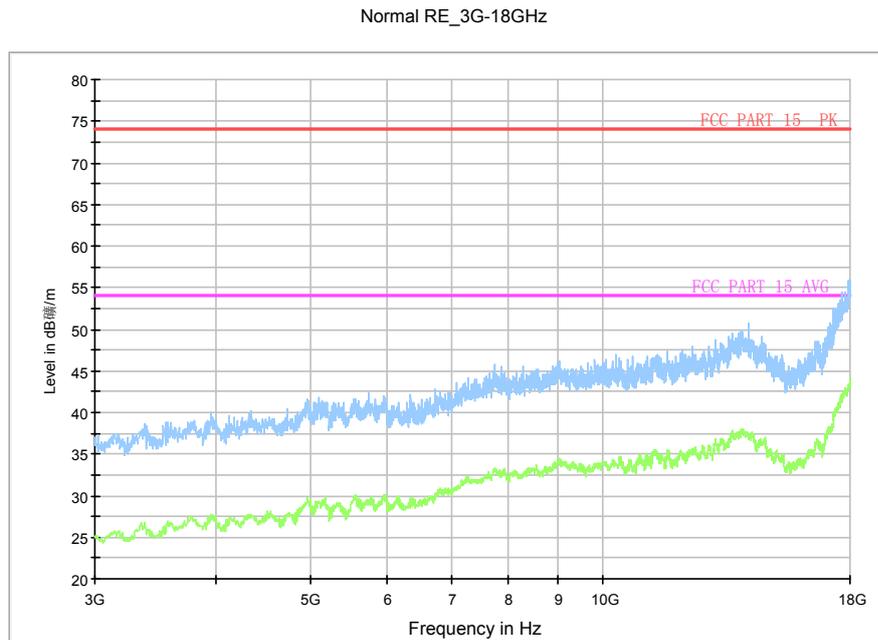


Fig.A.6.2.33 Radiated Spurious Emission (802.11n-HT40, ch3, 3 GHz-18 GHz)

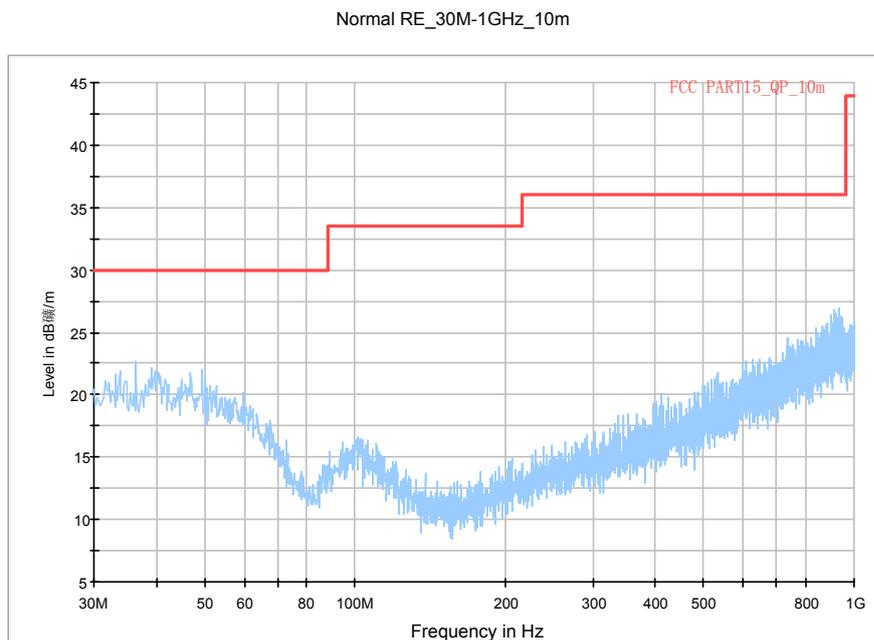


Fig.A.6.2.34 Radiated Spurious Emission (802.11n-HT40, Ch6, 30 MHz-1 GHz)

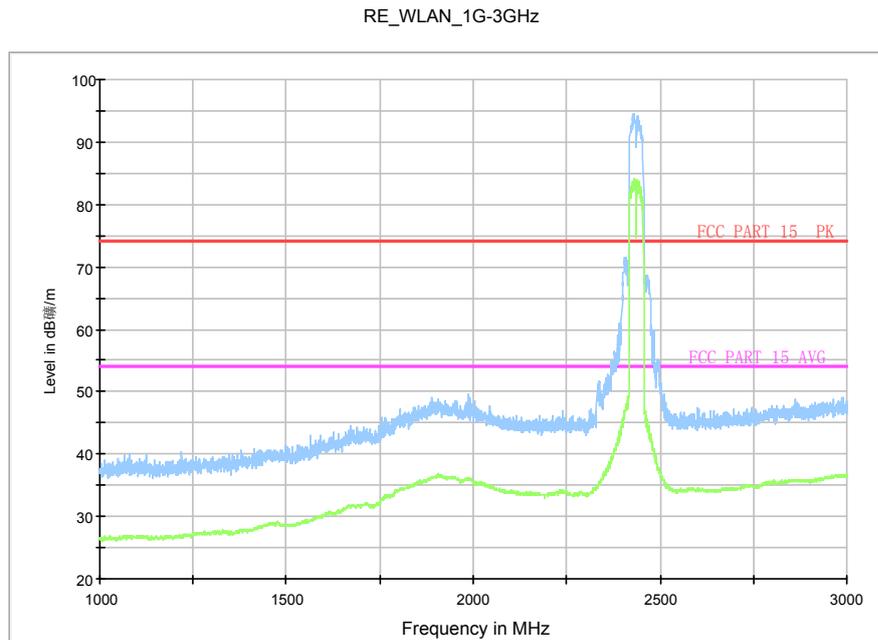


Fig.A.6.2.35 Radiated Spurious Emission (802.11n-HT40, Ch6, 1 GHz-3 GHz)

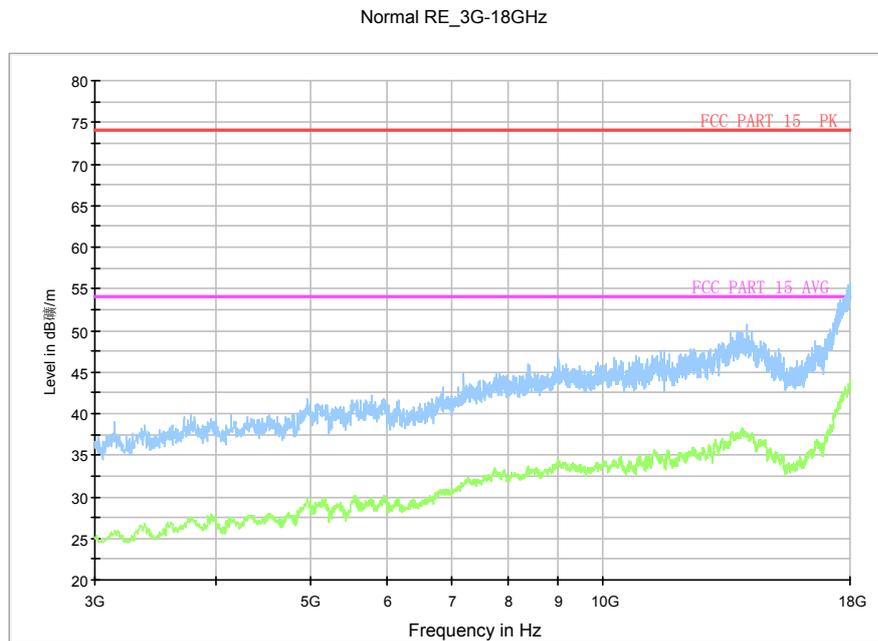


Fig.A.6.2.36 Radiated Spurious Emission (802.11n-HT40, Ch6, 3 GHz-18 GHz)

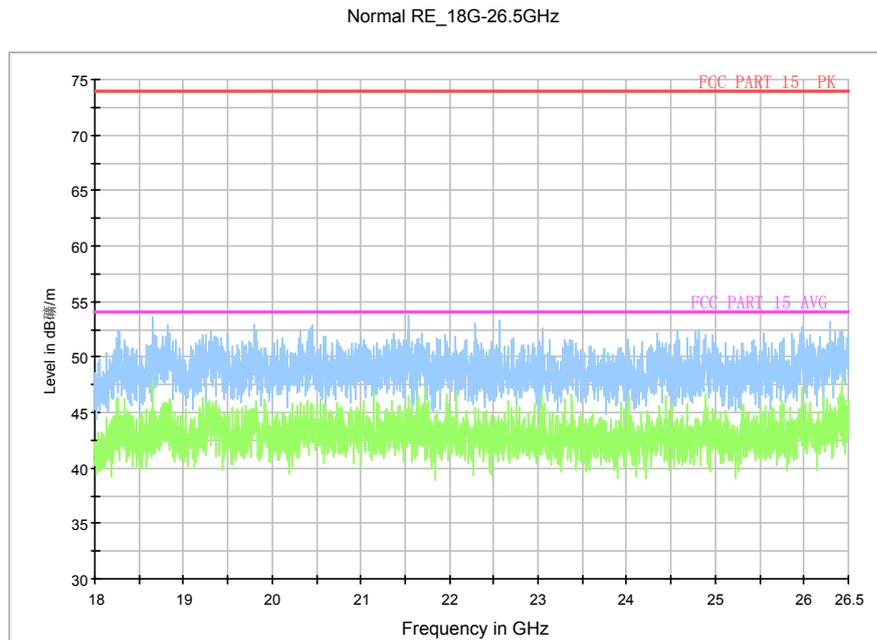


Fig.A.6.2.37 Radiated Spurious Emission (802.11n-HT40, Ch6, 18GHz – 26.5GHz)

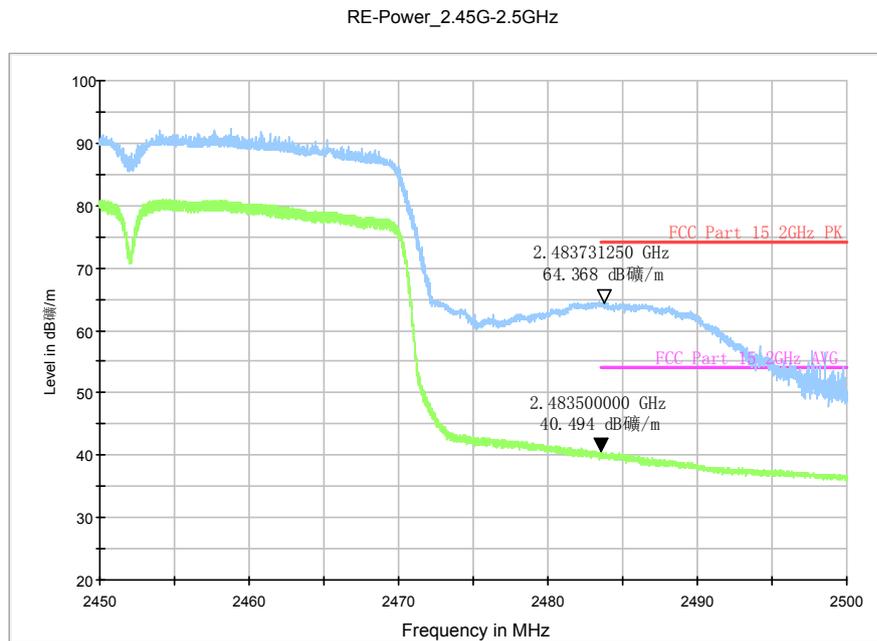


Fig.A.6.2.38 Radiated Spurious Emission (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

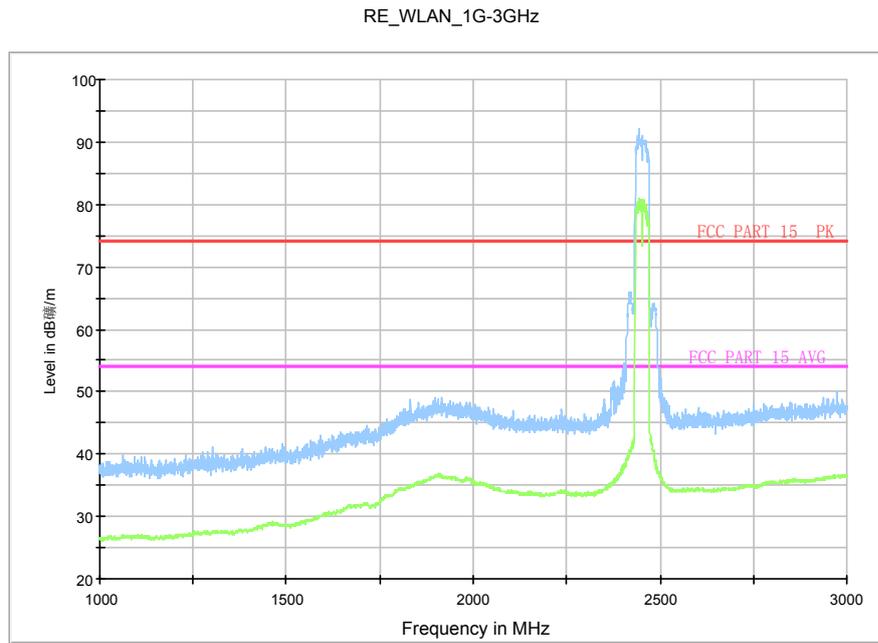


Fig.A.6.2.39 Radiated Spurious Emission (802.11n-HT40, ch9, 1 GHz-3 GHz)

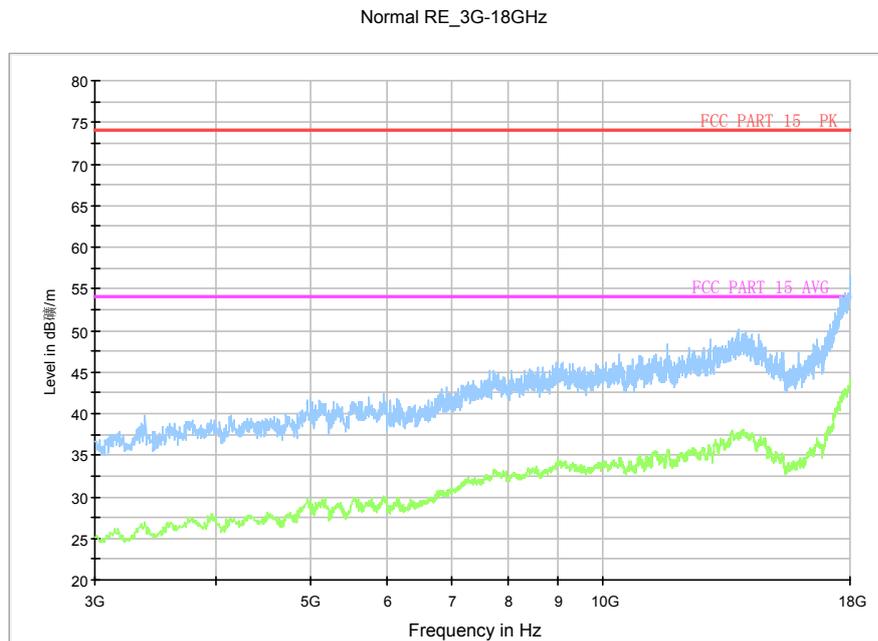


Fig.A.6.2.40 Radiated Spurious Emission (802.11n-HT40, ch9, 3 GHz-18 GHz)

A.7. 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.7.1 | P |

Conclusion: PASS

Test graphs as below:

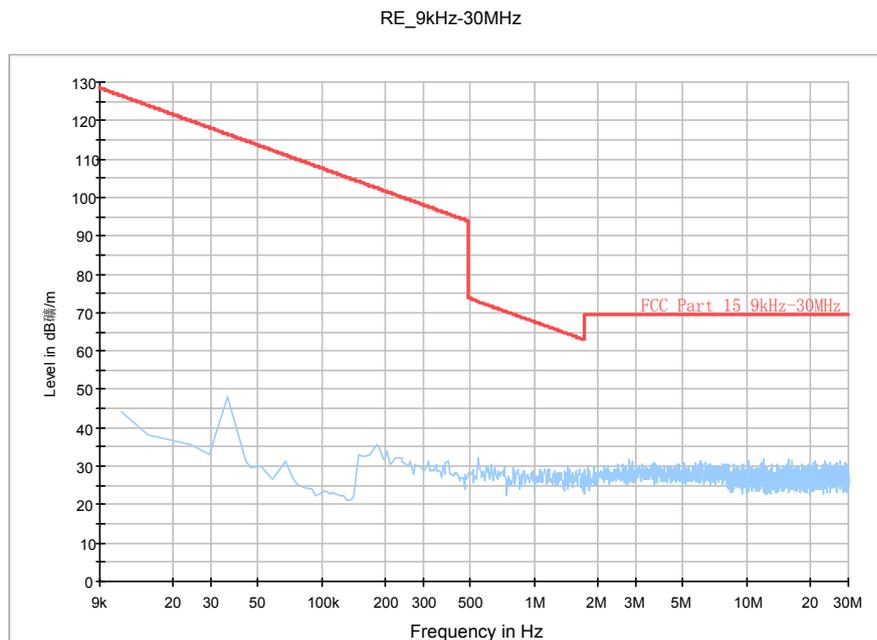


Fig.A.7.1 Radiated Spurious Emission (802.11b, 9 kHz ~30 MHz)

A.8. 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.8.1 | Fig.A.8.2 | 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 | | |
| | | 802.11b | Idle | |
| 0.15 to 0.5 | 56 to 46 | Fig.A.8.1 | Fig.A.8.2 | 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.

Conclusion: Pass

Measurement uncertainty:

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

Test graphs as below:

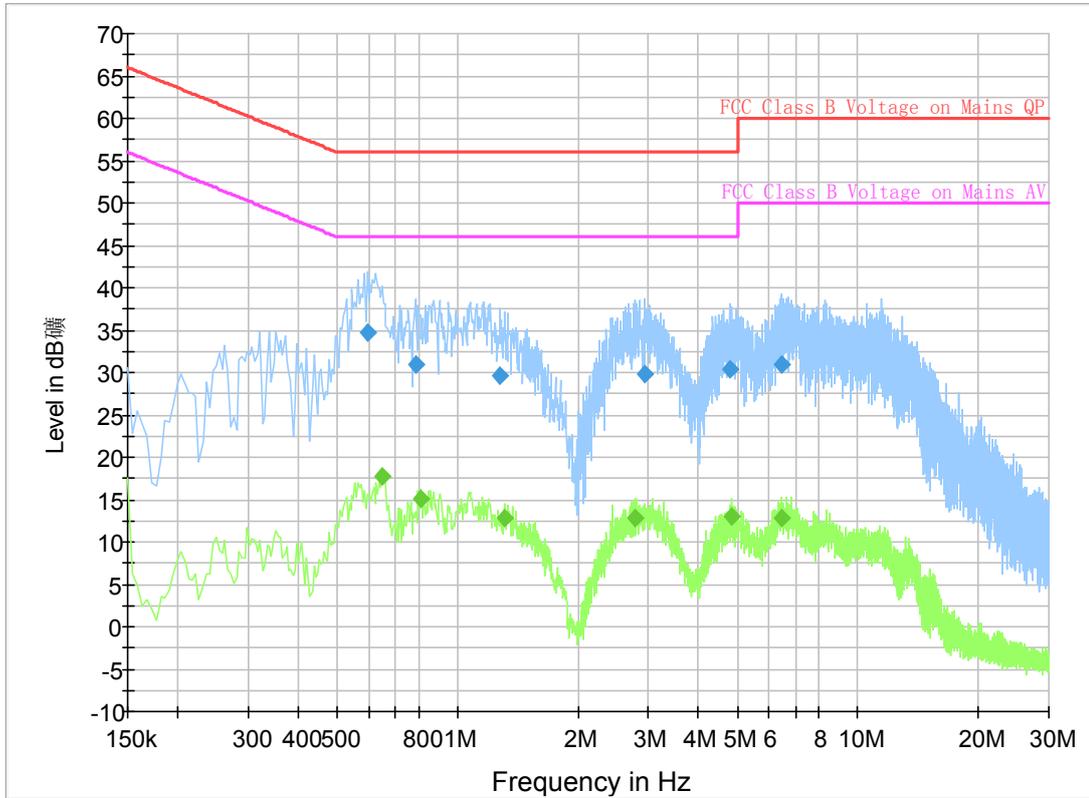


Fig.A.8.1 AC Powerline Conducted Emission-802.11b

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) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.595500 | 34.8 | GND | L1 | 9.8 | 21.2 | 56.0 |
| 0.784500 | 30.9 | GND | L1 | 9.8 | 25.1 | 56.0 |
| 1.275000 | 29.6 | GND | L1 | 9.7 | 26.4 | 56.0 |
| 2.940000 | 29.8 | GND | L1 | 9.7 | 26.2 | 56.0 |
| 4.780500 | 30.4 | GND | L1 | 9.8 | 25.6 | 56.0 |
| 6.445500 | 30.9 | GND | L1 | 9.7 | 29.1 | 60.0 |

Final Result 2

| Frequency (MHz) | Average (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|-----|------|------------|-------------|--------------|
| 0.649500 | 17.8 | GND | L1 | 9.8 | 28.2 | 46.0 |
| 0.807000 | 15.1 | GND | L1 | 9.8 | 30.9 | 46.0 |

| | | | | | | |
|----------|------|-----|----|-----|------|------|
| 1.315500 | 12.8 | GND | L1 | 9.7 | 33.2 | 46.0 |
| 2.778000 | 12.8 | GND | L1 | 9.7 | 33.2 | 46.0 |
| 4.830000 | 13.0 | GND | L1 | 9.8 | 33.0 | 46.0 |
| 6.445500 | 12.8 | GND | L1 | 9.7 | 37.2 | 50.0 |

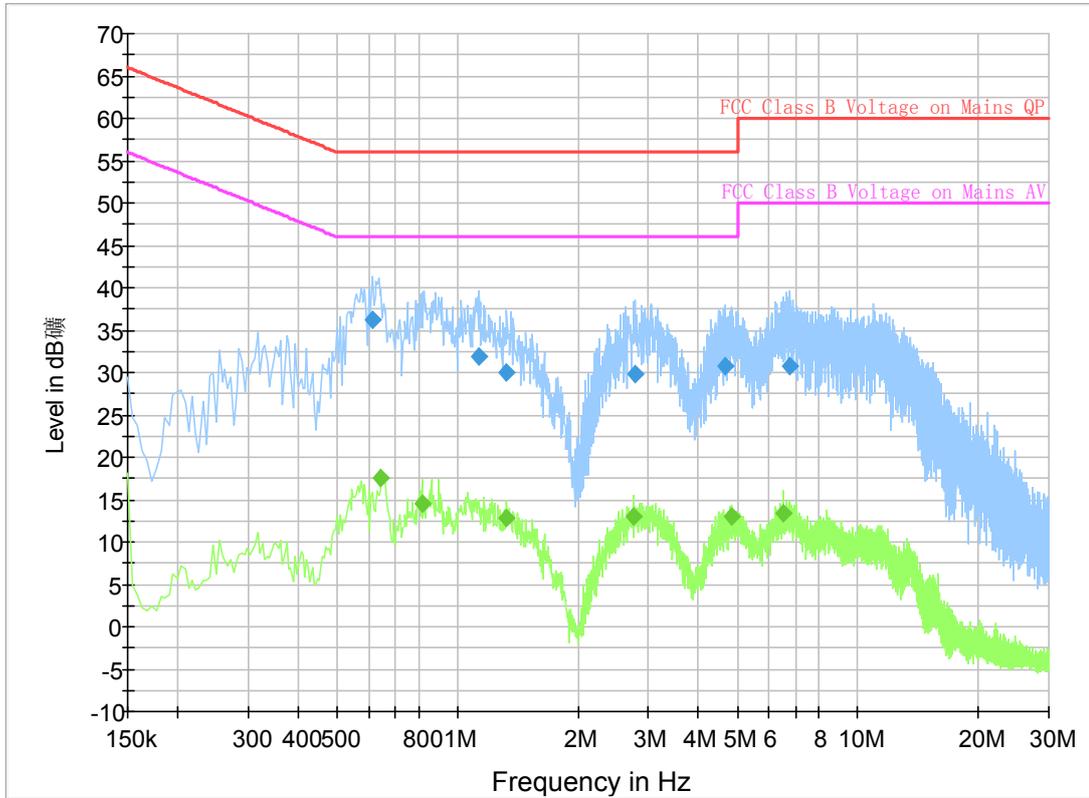


Fig.A.8.2 AC Powerline Conducted Emission-Idle

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) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.613500 | 36.3 | GND | L1 | 9.8 | 19.7 | 56.0 |
| 1.131000 | 31.8 | GND | L1 | 9.7 | 24.2 | 56.0 |
| 1.324500 | 30.0 | GND | L1 | 9.7 | 26.0 | 56.0 |
| 2.769000 | 29.7 | GND | L1 | 9.7 | 26.3 | 56.0 |
| 4.677000 | 30.7 | GND | L1 | 9.8 | 25.3 | 56.0 |
| 6.783000 | 30.8 | GND | L1 | 9.7 | 29.2 | 60.0 |

Final Result 2

| Frequency (MHz) | Average (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|-----|------|------------|-------------|--------------|
| 0.645000 | 17.5 | GND | L1 | 9.8 | 28.5 | 46.0 |
| 0.816000 | 14.5 | GND | L1 | 9.8 | 31.5 | 46.0 |

| | | | | | | |
|----------|------|-----|----|-----|------|------|
| 1.324500 | 12.9 | GND | L1 | 9.7 | 33.1 | 46.0 |
| 2.751000 | 13.0 | GND | L1 | 9.7 | 33.0 | 46.0 |
| 4.830000 | 12.9 | GND | L1 | 9.8 | 33.1 | 46.0 |
| 6.517500 | 13.5 | GND | L1 | 9.7 | 36.5 | 50.0 |

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