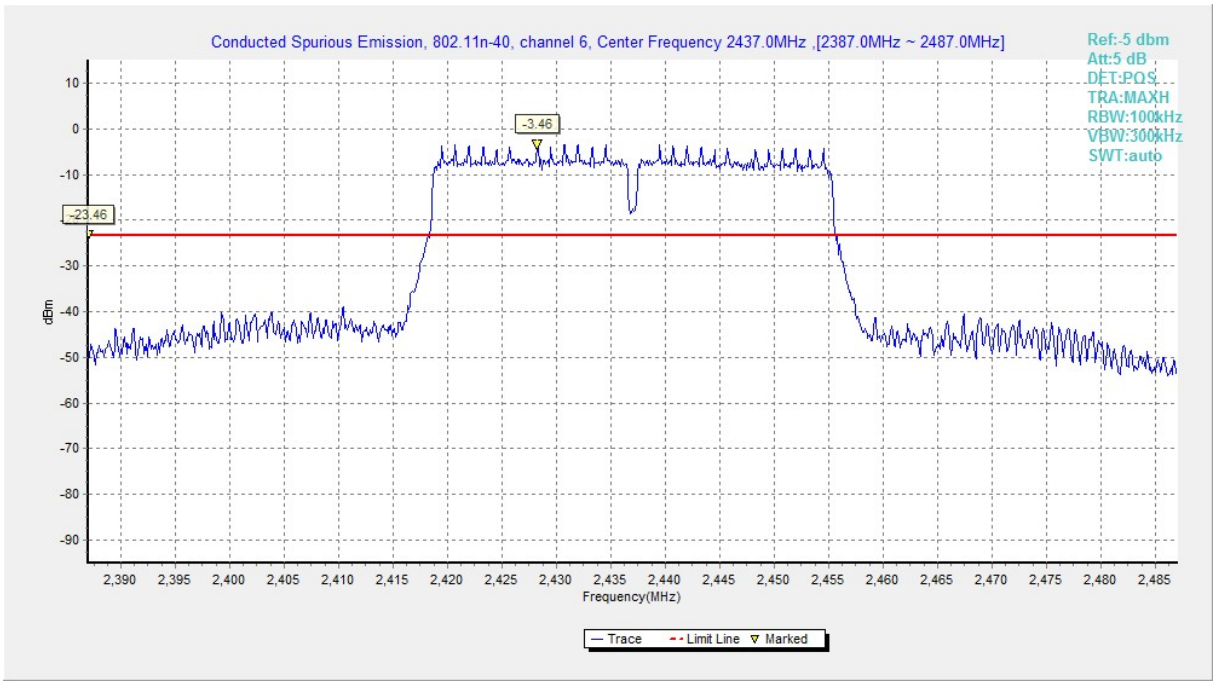

Fig.A.6.1.81 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, Center Frequency)

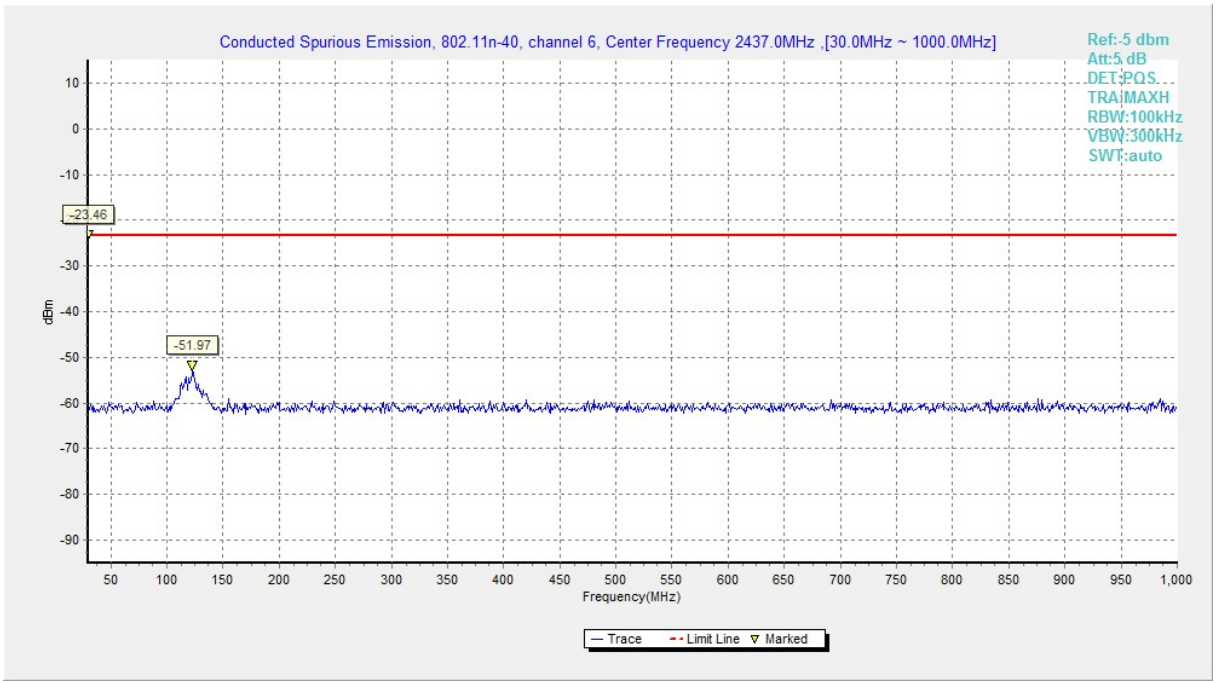

Fig.A.6.1.82 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 30 MHz-1 GHz)

©Copyright. All rights reserved by CTTL.

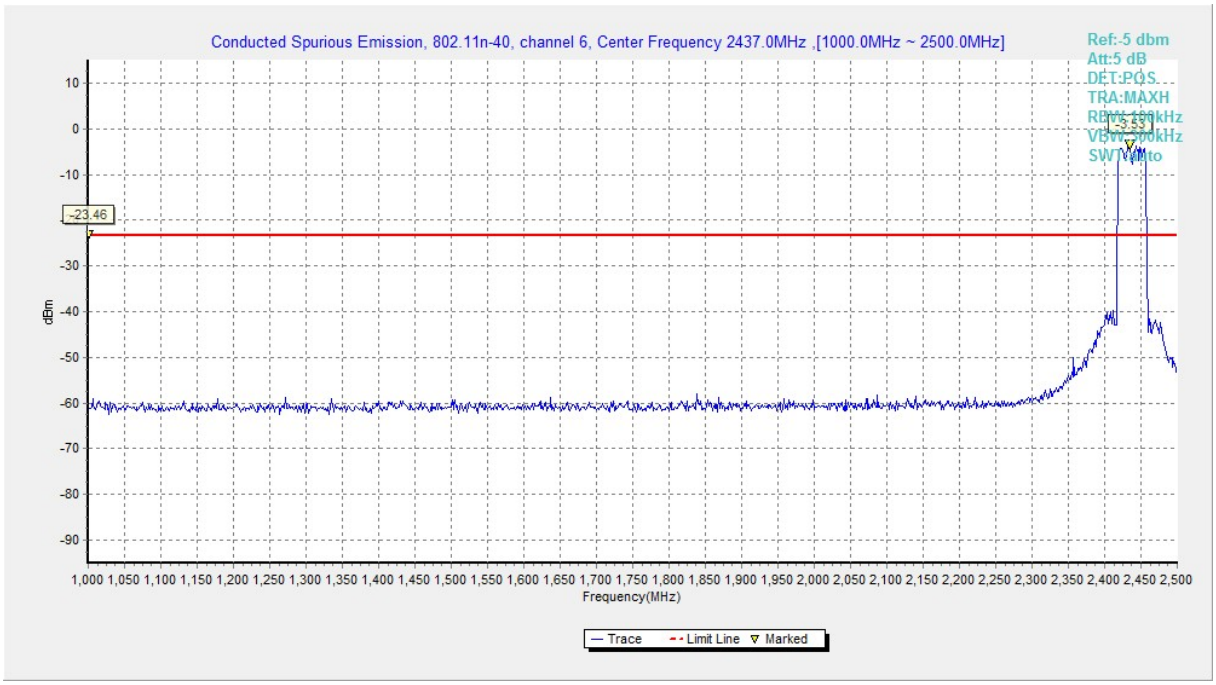

Fig.A.6.1.83 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 1 GHz-2.5 GHz)

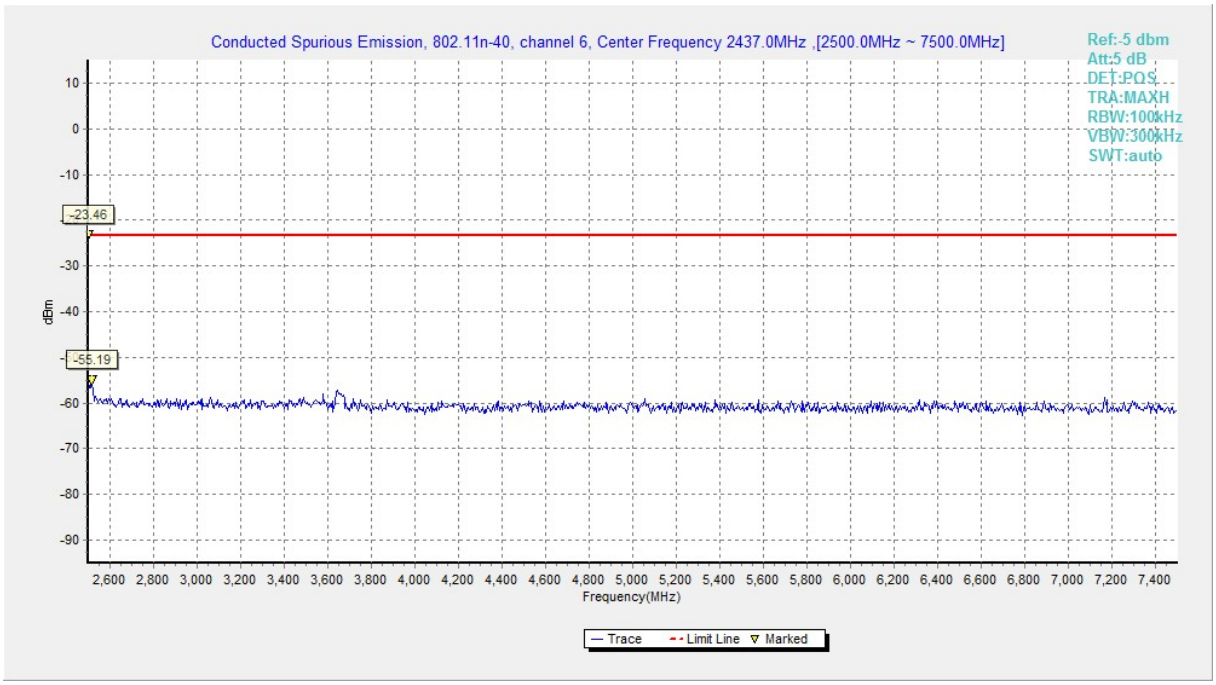

Fig.A.6.1.84 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 2.5 GHz-7.5 GHz)

©Copyright. All rights reserved by CTTL.

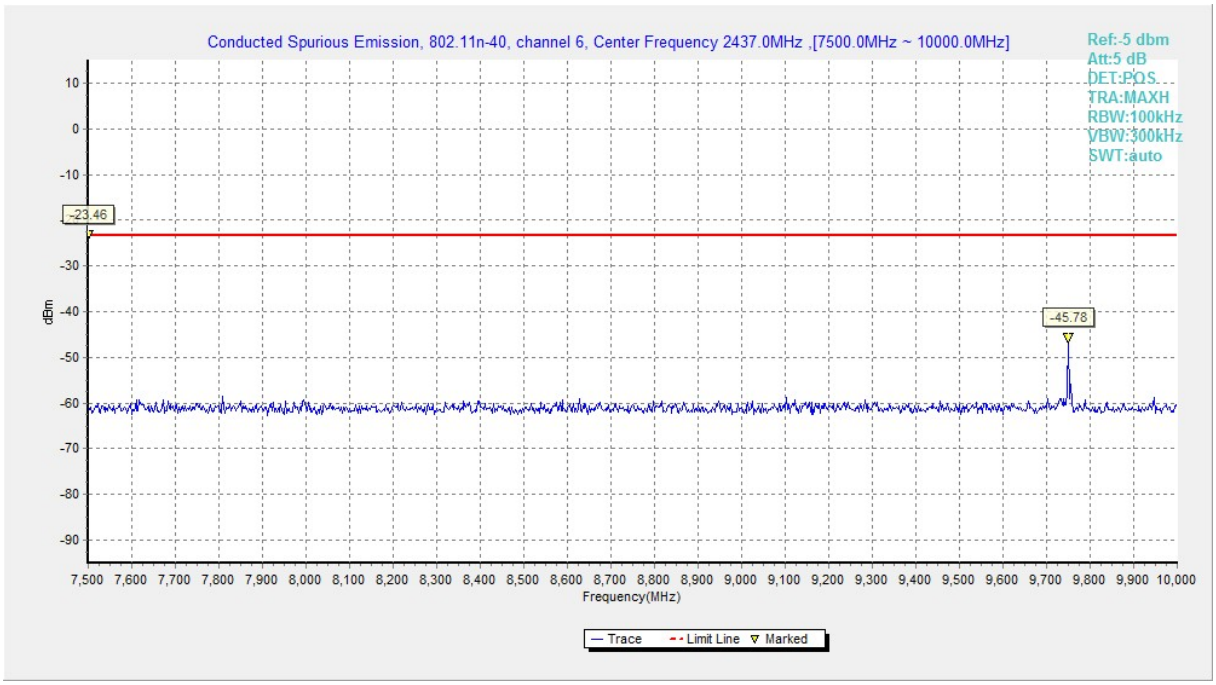

Fig.A.6.1.85 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 7.5 GHz-10 GHz)

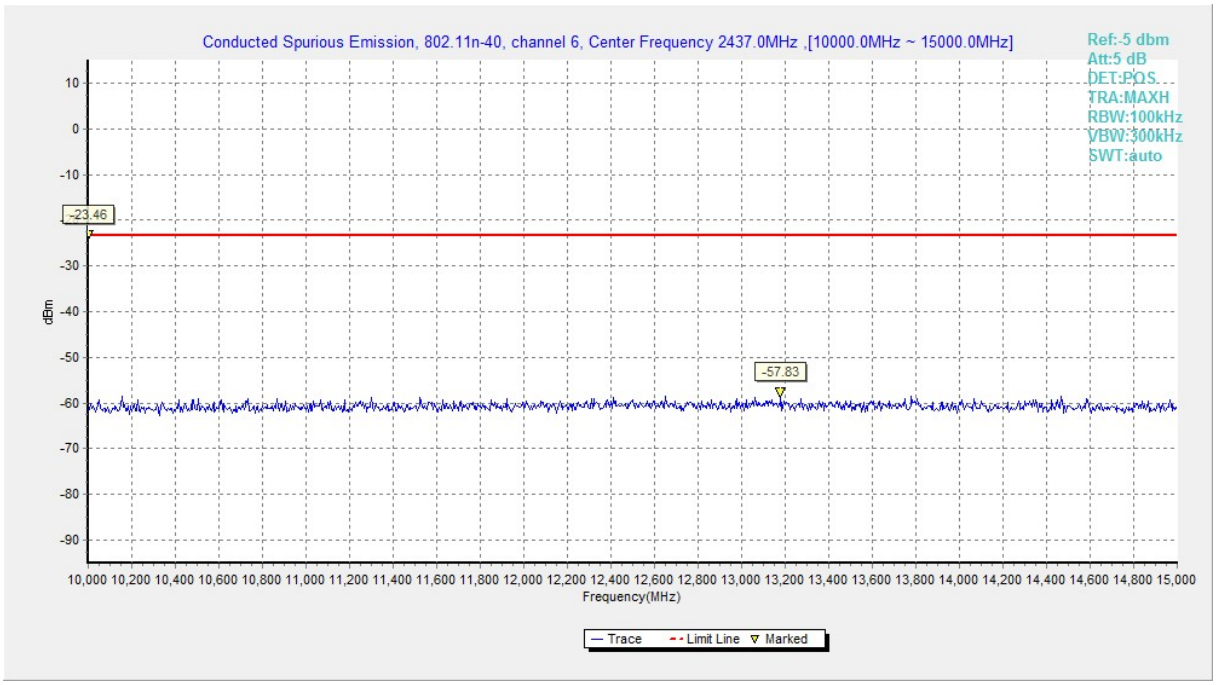

Fig.A.6.1.86 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 10 GHz-15 GHz)

©Copyright. All rights reserved by CTTL.

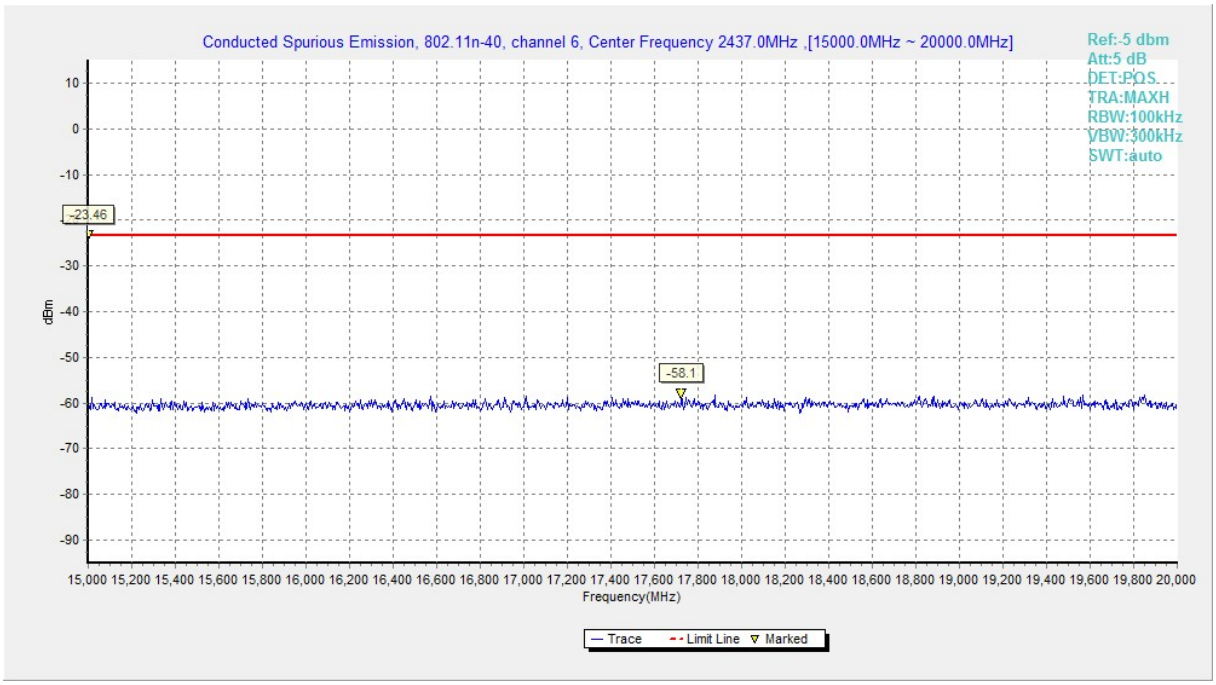

Fig.A.6.1.87 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 15 GHz-20 GHz)

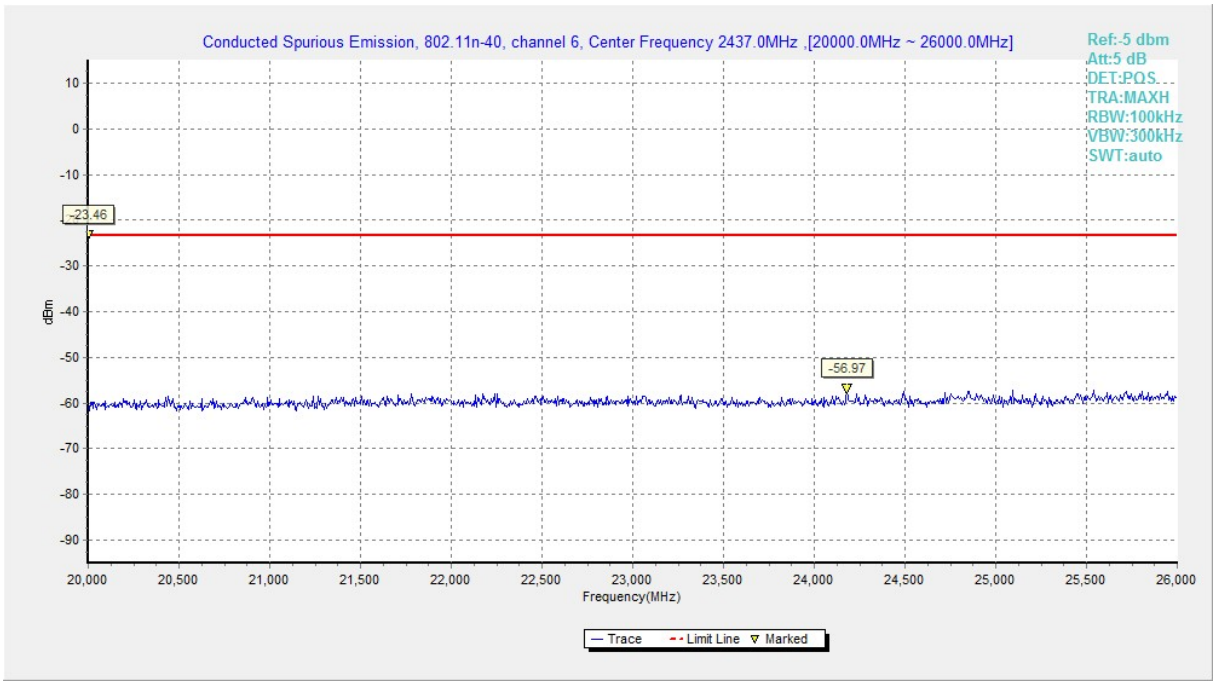

Fig.A.6.1.88 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 20 GHz-26 GHz)

©Copyright. All rights reserved by CTTL.

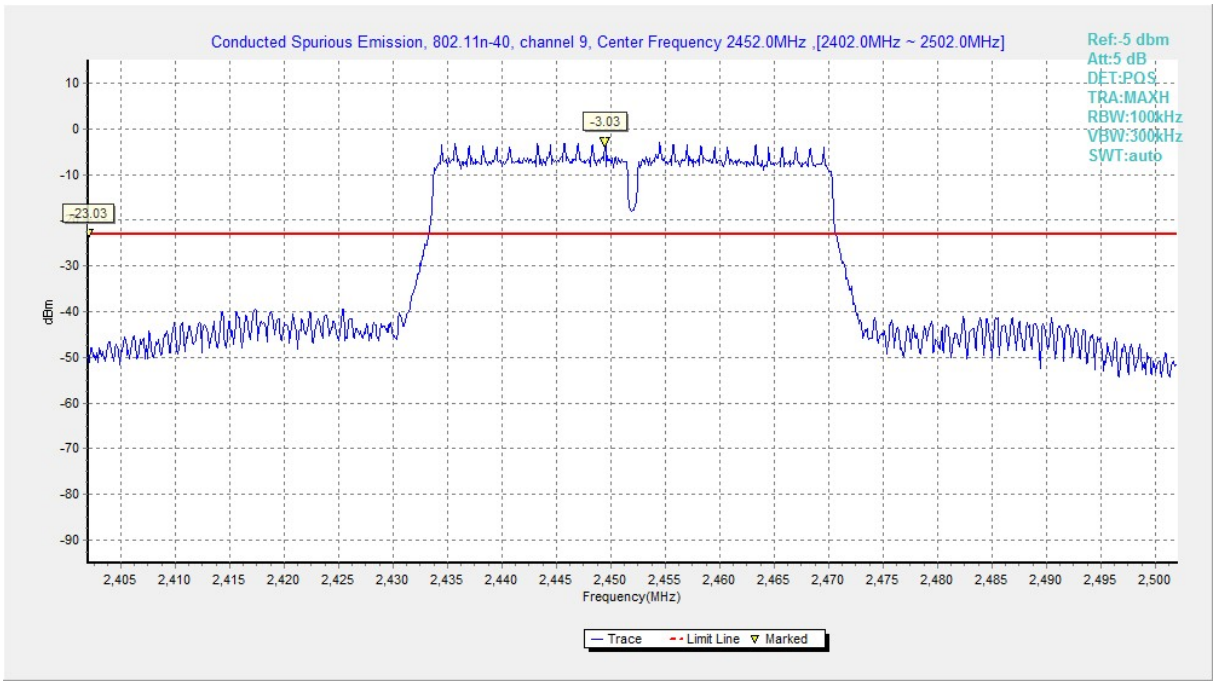

Fig.A.6.1.89 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, Center Frequency)

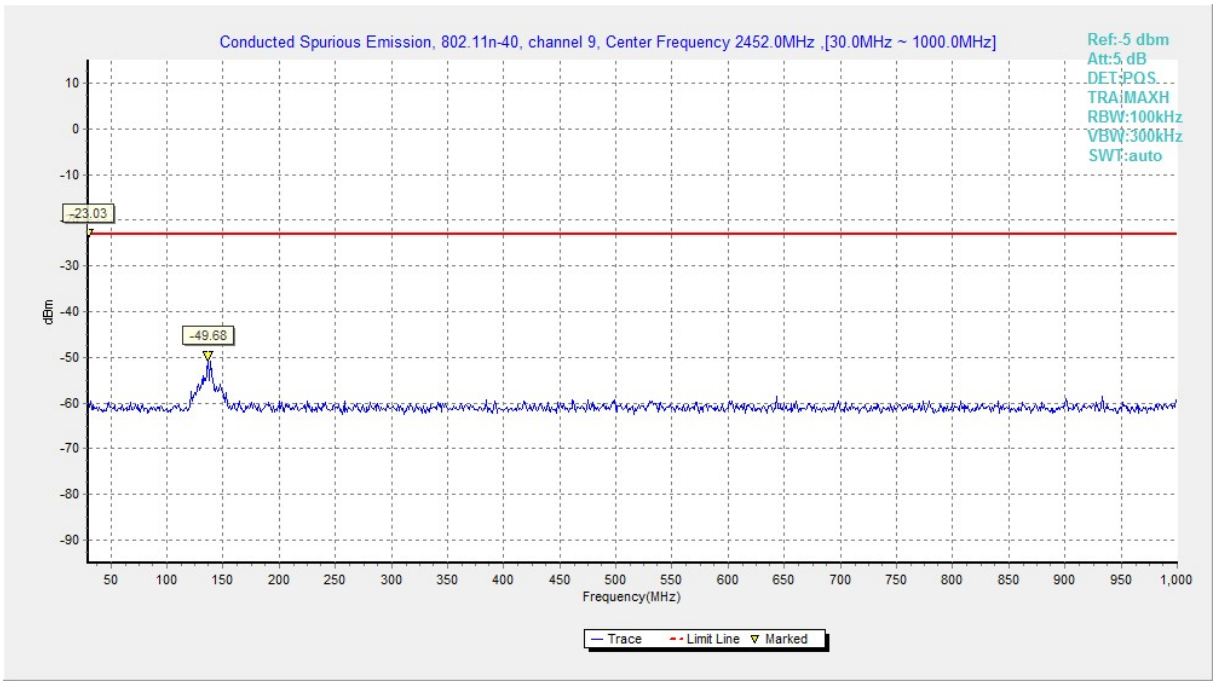

Fig.A.6.1.90 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 30 MHz-1 GHz)

©Copyright. All rights reserved by CTTL.

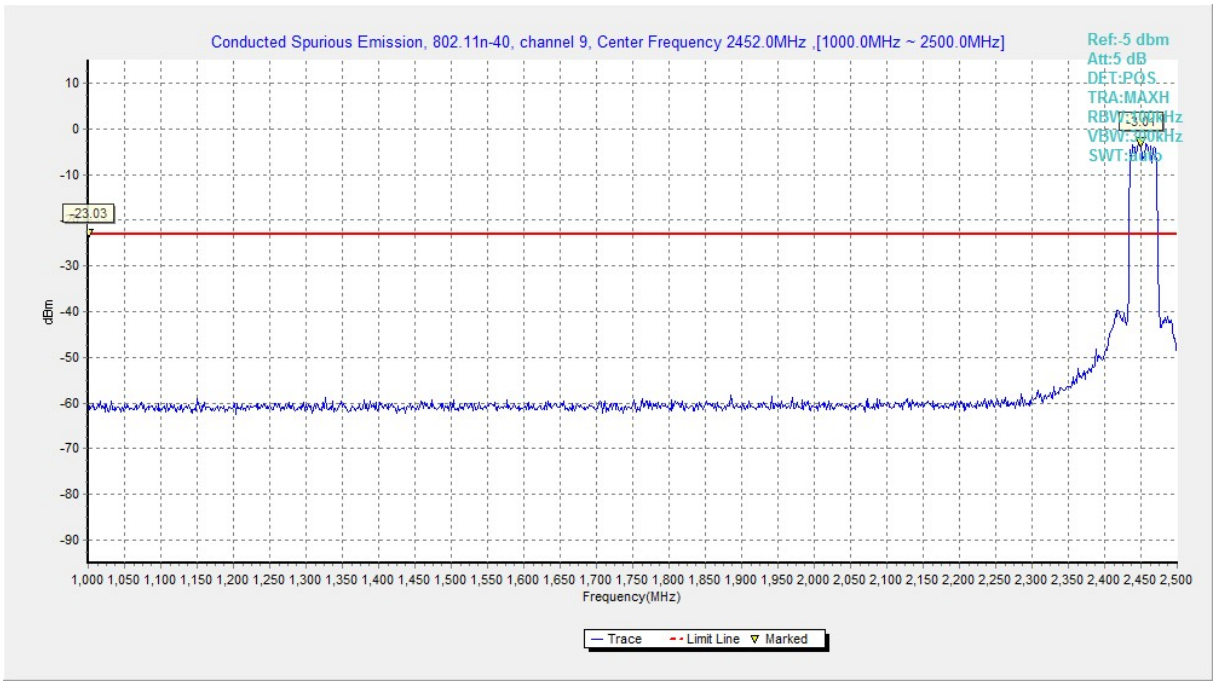

Fig.A.6.1.91 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 1 GHz-2.5 GHz)

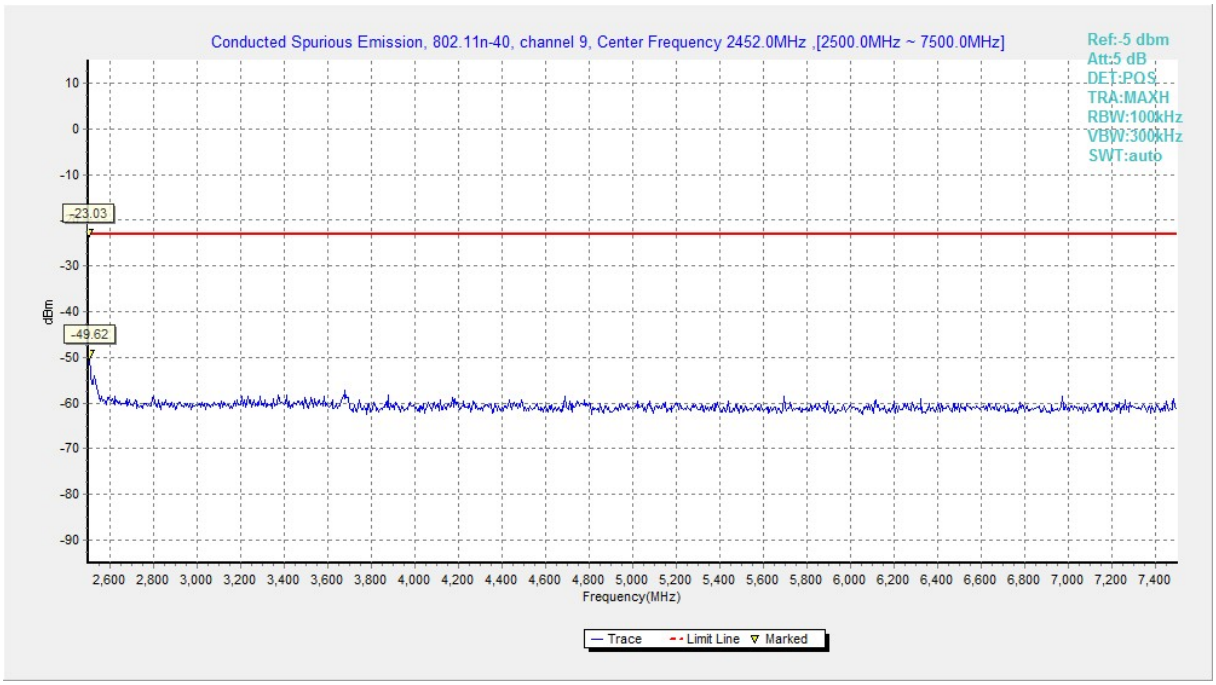

Fig.A.6.1.92 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 2.5 GHz-7.5 GHz)

©Copyright. All rights reserved by CTTL.

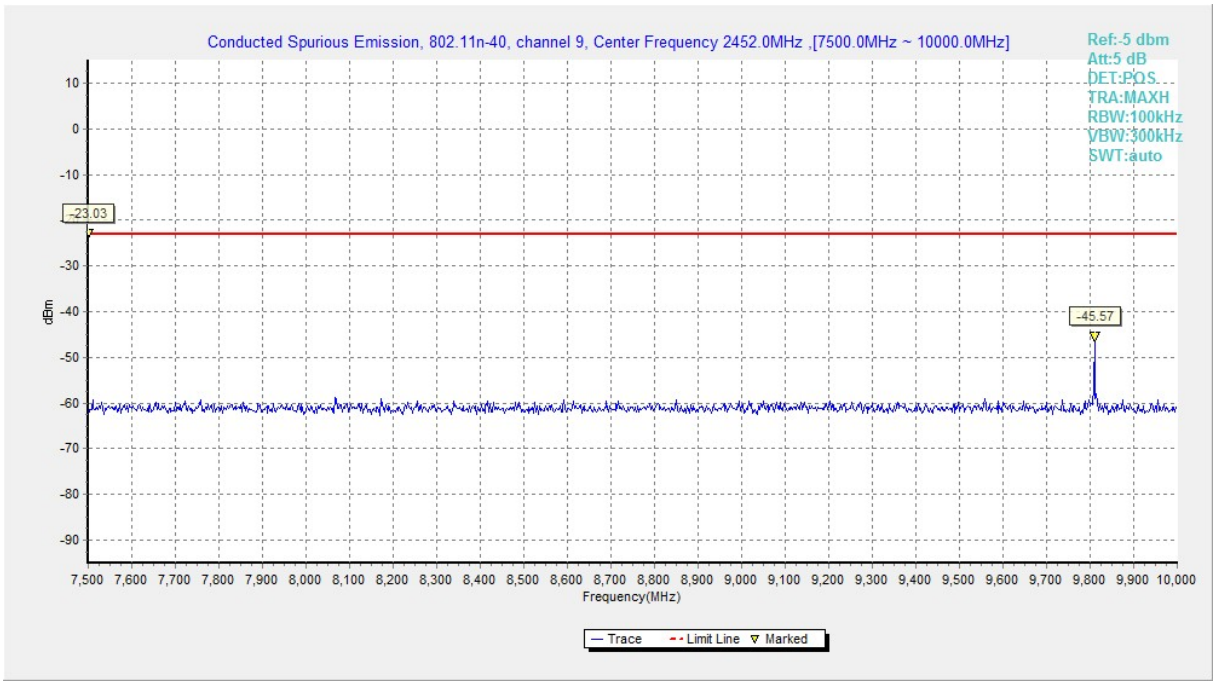

Fig.A.6.1.93 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 7.5 GHz-10 GHz)

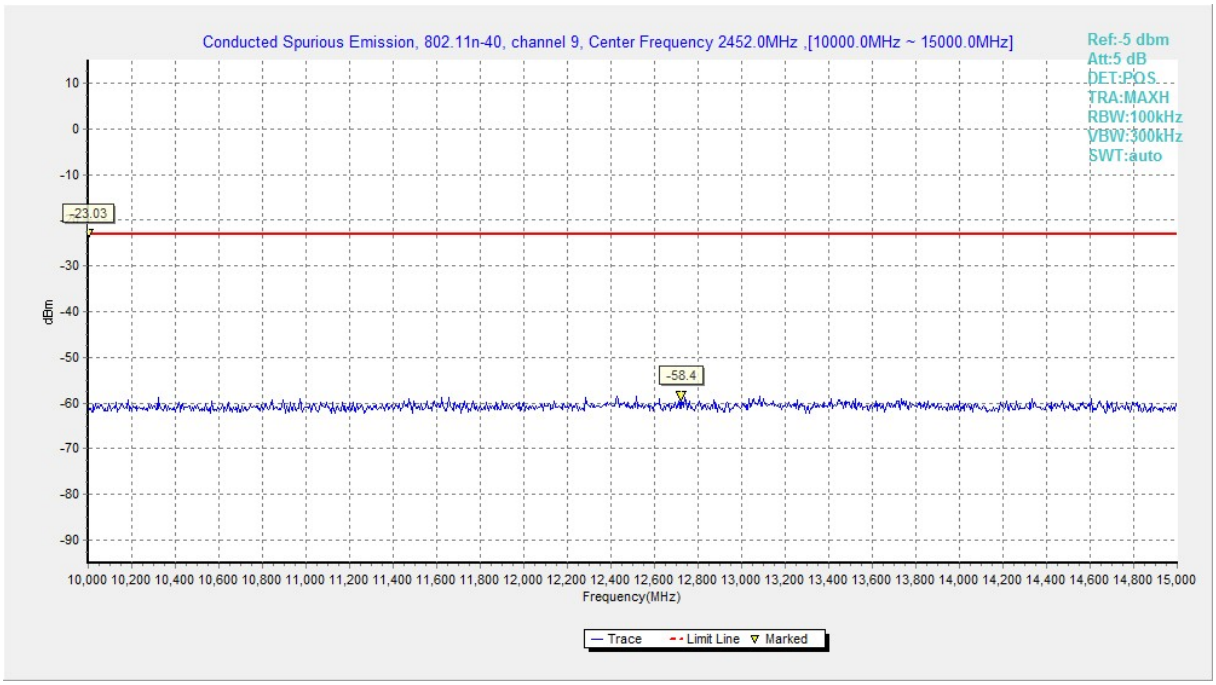

Fig.A.6.1.94 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 10 GHz-15 GHz)

©Copyright. All rights reserved by CTTL.

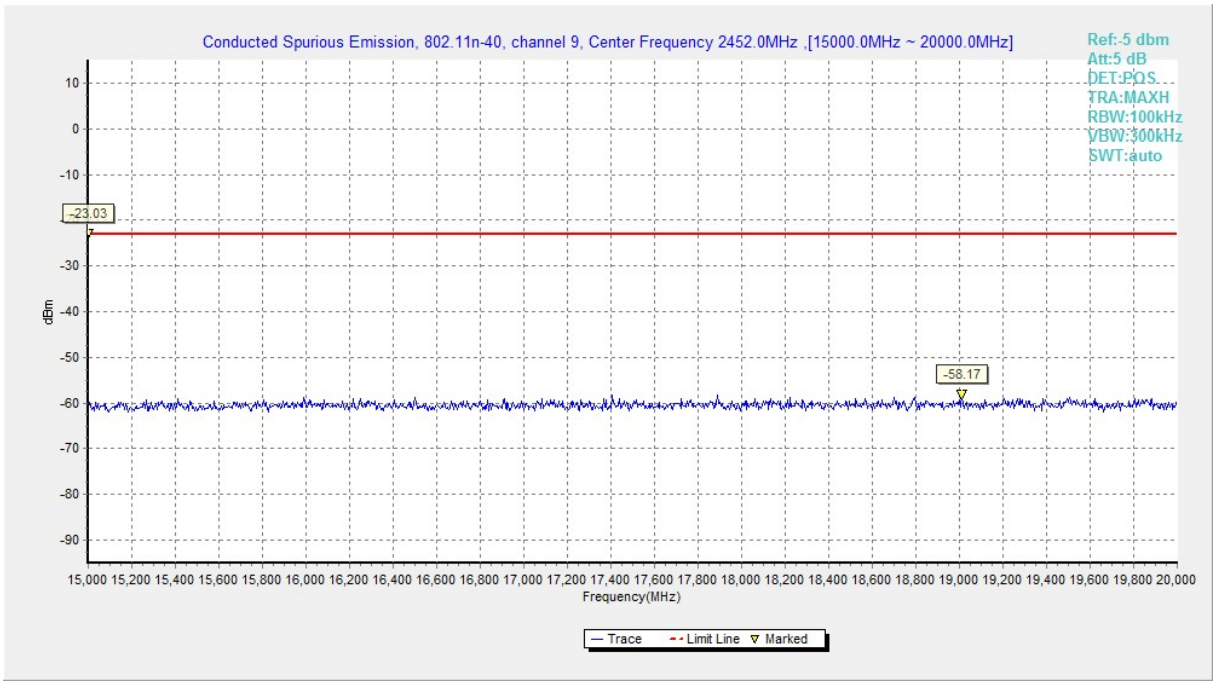

Fig.A.6.1.95 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 15 GHz-20 GHz)

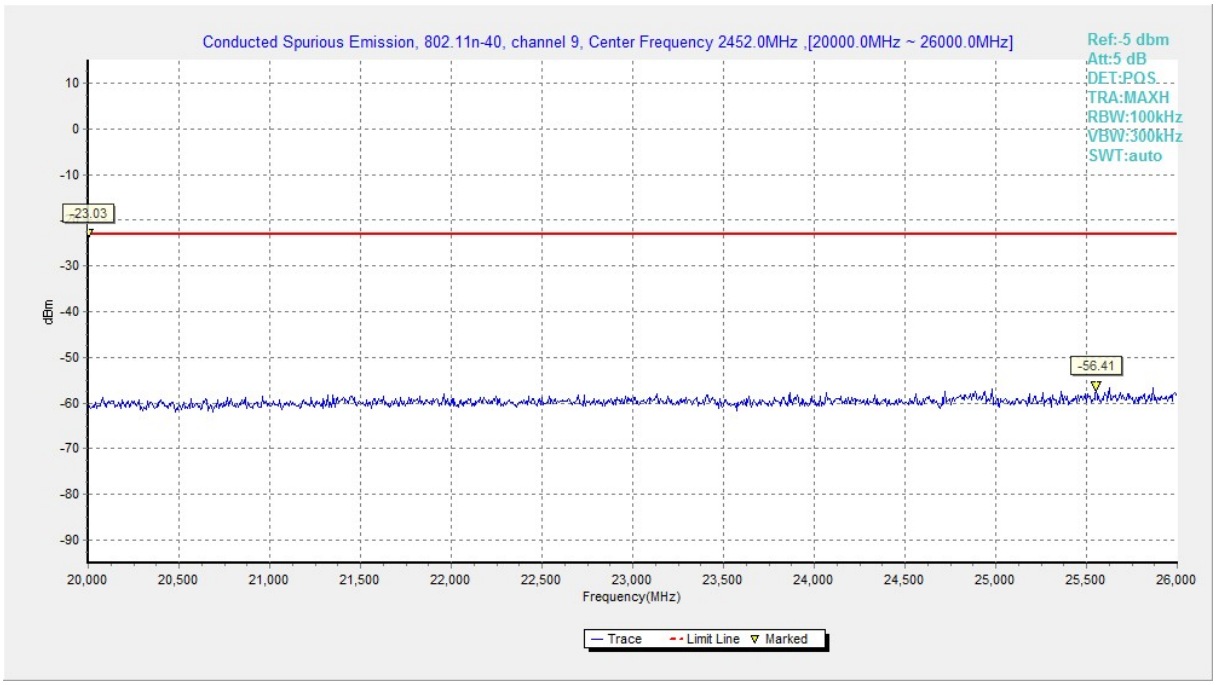

Fig.A.6.1.96 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 20 GHz-26 GHz)

©Copyright. All rights reserved by CTTL.

A.6.2 Transmitter Spurious Emission - Radiated

Method of Measurement: See ANSI C63.10-2009-clause 6.5 & 6.6

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)).

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

Frequency (MHz)	Field strength(μV/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

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

©Copyright. All rights reserved by CTTL.

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	9 kHz ~30 MHz	Fig.A.6.2.4	**P**
		30 MHz ~1 GHz	Fig.A.6.2.5	**P**
		1 GHz ~ 3 GHz	Fig.A.6.2.6	**P**
		3 GHz ~ 18 GHz	Fig.A.6.2.7	**P**
		18 GHz~ 26.5 GHz	Fig.A.6.2.8	**P**
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.9	**P**
	11	1 GHz ~ 3 GHz	Fig.A.6.2.10	**P**
		3 GHz ~ 18 GHz	Fig.A.6.2.11	**P**

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power	2.38GHz ~2.43GHz	Fig.A.6.2.12	**P**
	1	1 GHz ~ 3 GHz	Fig.A.6.2.13	**P**
		3 GHz ~ 18 GHz	Fig.A.6.2.14	**P**
	6	30 MHz ~1 GHz	Fig.A.6.2.15	**P**
		1 GHz ~ 3 GHz	Fig.A.6.2.16	**P**
		3 GHz ~ 18 GHz	Fig.A.6.2.17	**P**
		18 GHz~ 26.5 GHz	Fig.A.6.2.18	**P**
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.19	**P**
	11	1 GHz ~ 3 GHz	Fig.A.6.2.20	**P**
		3 GHz ~ 18 GHz	Fig.A.6.2.21	**P**

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	Power	2.38GHz ~2.45GHz	Fig.A.6.2.22	**P**
	1	1 GHz ~ 3 GHz	Fig.A.6.2.23	**P**
		3 GHz ~ 18 GHz	Fig.A.6.2.24	**P**
	6	30 MHz ~1 GHz	Fig.A.6.2.25	**P**
		1 GHz ~ 3 GHz	Fig.A.6.2.26	**P**
		3 GHz ~ 18 GHz	Fig.A.6.2.27	**P**
		18 GHz~ 26.5 GHz	Fig.A.6.2.28	**P**
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.29	**P**
	11	1 GHz ~ 3 GHz	Fig.A.6.2.30	**P**
		3 GHz ~ 18 GHz	Fig.A.6.2.31	**P**

©Copyright. All rights reserved by CTTL.

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	Power	2.38GHz ~2.45GHz	Fig.A.6.2.32	**P**
	3	1 GHz ~ 3 GHz	Fig.A.6.2.33	**P**
		3 GHz ~ 18 GHz	Fig.A.6.2.34	**P**
	6	30 MHz ~1 GHz	Fig.A.6.2.35	**P**
		1 GHz ~ 3 GHz	Fig.A.6.2.36	**P**
		3 GHz ~ 18 GHz	Fig.A.6.2.37	**P**
		18 GHz~ 26.5 GHz	Fig.A.6.2.38	**P**
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.39	**P**
	9	1 GHz ~ 3 GHz	Fig.A.6.2.40	**P**
		3 GHz ~ 18 GHz	Fig.A.6.2.41	**P**

Conclusion: Pass

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:

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

802.11b

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
2385.500	45.0	-38.8	27.7	56.100	H
17896.875	57.8	-18.5	45.6	30.700	V
17852.813	57.7	-18.5	45.6	30.600	H
17850.938	57.6	-18.5	45.6	30.500	V
17830.313	57.5	-18.5	45.6	30.400	V
17880.000	57.5	-18.5	45.6	30.400	V

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17885.625	57.8	-18.5	45.6	30.700	H
17947.500	57.8	-17.7	45.6	29.900	V
17976.563	57.6	-17.7	45.6	29.700	H
17892.188	57.4	-18.5	45.6	30.300	V
17884.688	57.3	-18.5	45.6	30.200	V
17909.063	57.2	-18.5	45.6	30.100	V

©Copyright. All rights reserved by CTTL.

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
2484.000	44.4	-38.9	27.7	55.600	V
17909.063	58.3	-18.5	45.6	31.200	H
17873.438	58.2	-18.5	45.6	31.100	V
17977.500	58.0	-17.7	45.6	30.100	V
17952.188	57.8	-17.7	45.6	29.900	H
17876.250	57.4	-18.5	45.6	30.300	V

802.11g

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
2389.150	60.5	-38.8	27.7	71.600	H
17972.813	58.0	-17.7	45.6	30.100	V
17880.000	57.7	-18.5	45.6	30.600	V
17948.438	57.4	-17.7	45.6	29.500	V
17916.563	57.4	-17.7	45.6	29.500	V
17890.313	57.3	-18.5	45.6	30.200	V

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17977.500	57.8	-17.7	45.6	29.900	H
17863.125	57.2	-18.5	45.6	30.100	V
17996.250	57.0	-17.7	45.6	29.100	H
17897.813	56.9	-18.5	45.6	29.800	V
17944.688	56.9	-17.7	45.6	29.000	V
17951.250	56.9	-17.7	45.6	29.000	V

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
2483.600	60.7	-38.9	27.7	71.900	H
17885.625	58.1	-18.5	45.6	31.000	V
17851.875	57.5	-18.5	45.6	30.400	H
17905.313	57.3	-18.5	45.6	30.200	V
17904.375	57.1	-18.5	45.6	30.000	V
17895.938	57.0	-18.5	45.6	29.900	V

©Copyright. All rights reserved by CTTL.

802.11n-HT20

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
2389.500	58.1	-38.8	27.7	69.200	V
17885.625	57.5	-18.5	45.6	30.400	V
17992.500	57.5	-17.7	45.6	29.600	H
17862.188	57.1	-18.5	45.6	30.000	V
17907.188	57.1	-18.5	45.6	30.000	V
17925.938	57.1	-17.7	45.6	29.200	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17904.375	57.4	-18.5	45.6	30.300	V
17976.563	57.4	-17.7	45.6	29.500	H
17907.188	57.3	-18.5	45.6	30.200	V
17882.813	57.2	-18.5	45.6	30.100	V
17892.188	57.1	-18.5	45.6	30.000	V
17865.938	57.0	-18.5	45.6	29.900	V

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
2484.175	56.6	-38.9	27.7	67.800	V
17999.063	57.9	-17.7	45.6	30.000	V
17912.813	57.4	-18.5	45.6	30.300	H
17927.813	57.4	-17.7	45.6	29.500	V
17880.938	57.3	-18.5	45.6	30.200	V
17893.125	57.1	-18.5	45.6	30.000	V

©Copyright. All rights reserved by CTTL.

802.11n-HT40

Ch3

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
2388.325	62.3	-38.8	27.7	73.400	H
17913.750	58.0	-18.5	45.6	30.900	V
17907.188	57.3	-18.5	45.6	30.200	V
17904.375	57.1	-18.5	45.6	30.000	V
17931.563	57.0	-17.7	45.6	29.100	V
17891.250	56.9	-18.5	45.6	29.800	V

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17844.375	58.1	-18.5	45.6	31.000	V
17889.375	58.1	-18.5	45.6	31.000	H
17878.125	57.9	-18.5	45.6	30.800	V
17885.625	57.8	-18.5	45.6	30.700	V
17891.250	57.8	-18.5	45.6	30.700	V
17993.438	57.7	-17.7	45.6	29.800	V

Ch9

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
2485.050	56.9	-38.9	27.7	68.100	V
17874.375	57.4	-18.5	45.6	30.300	H
17888.438	57.3	-18.5	45.6	30.200	V
17880.000	57.3	-18.5	45.6	30.200	V
17865.938	57.3	-18.5	45.6	30.200	V
17891.250	57.1	-18.5	45.6	30.000	V

Test graphs as below:

©Copyright. All rights reserved by CTTL.

RE-Power_2.38G-2.43GHz

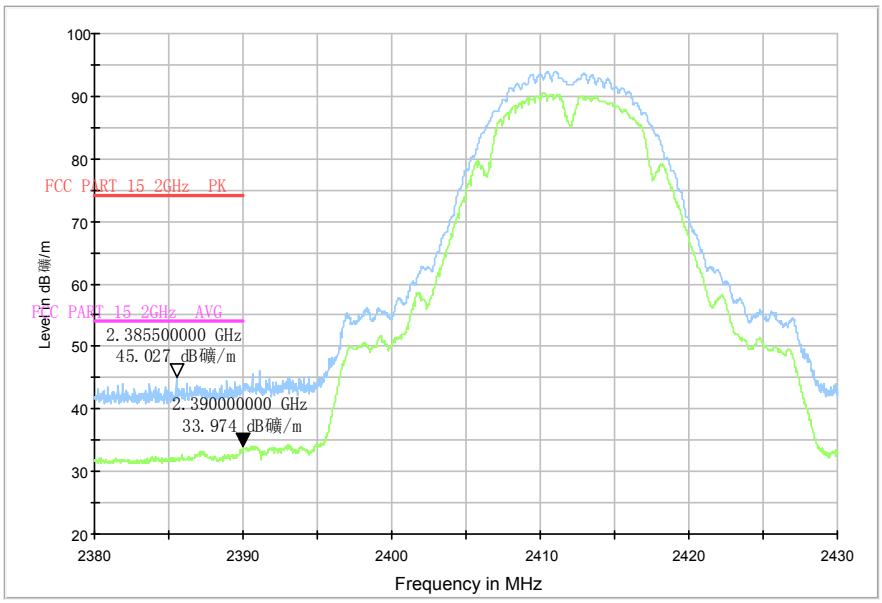

Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.38 GHz – 2.45GHz

RE_WLAN_1G-3GHz

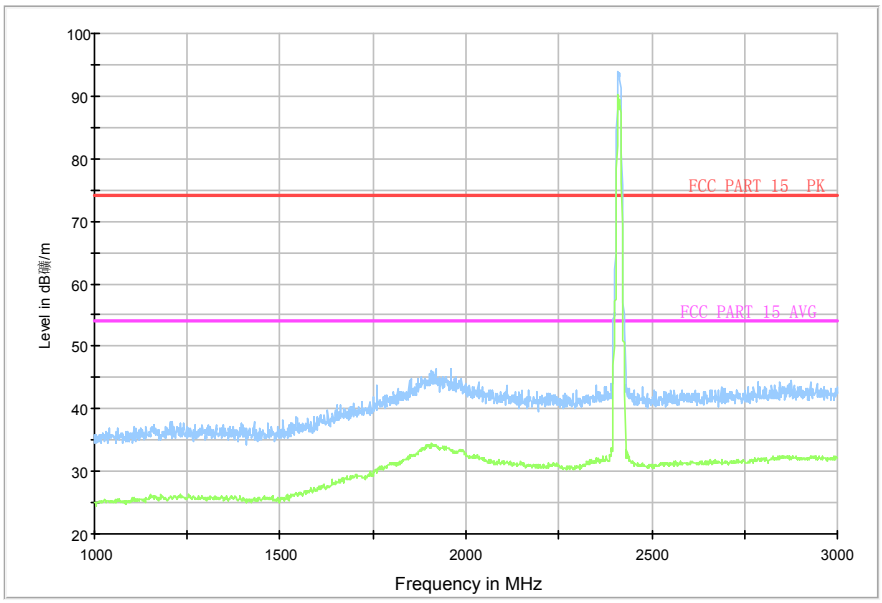

Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (802.11b, Ch1, 1 GHz-3 GHz)

©Copyright. All rights reserved by CTTL.

Normal RE_3G-18GHz

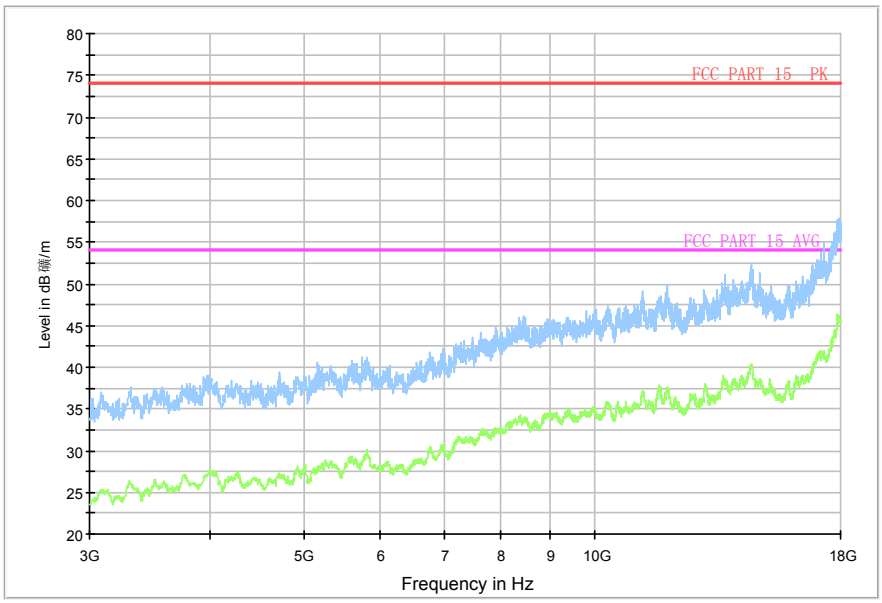

Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (802.11b, Ch1, 3 GHz-18 GHz)

RE_9kHz-30MHz

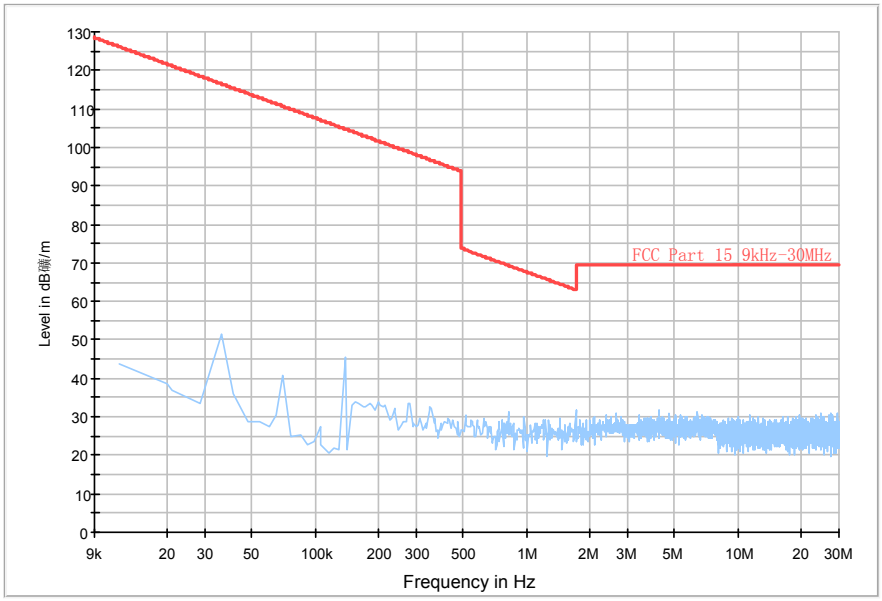

Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (802.11b, Ch6, 9kHz-30 MHz)

©Copyright. All rights reserved by CTTL.

Normal RE_30M-1GHz_10m

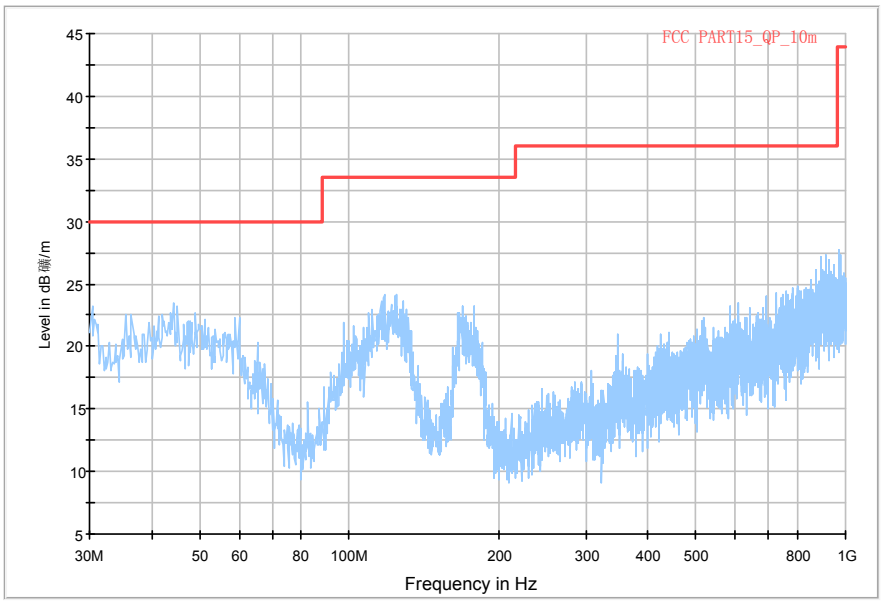

Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (802.11b, Ch6, 30 MHz-1 GHz)

RE_WLAN_1G-3GHz

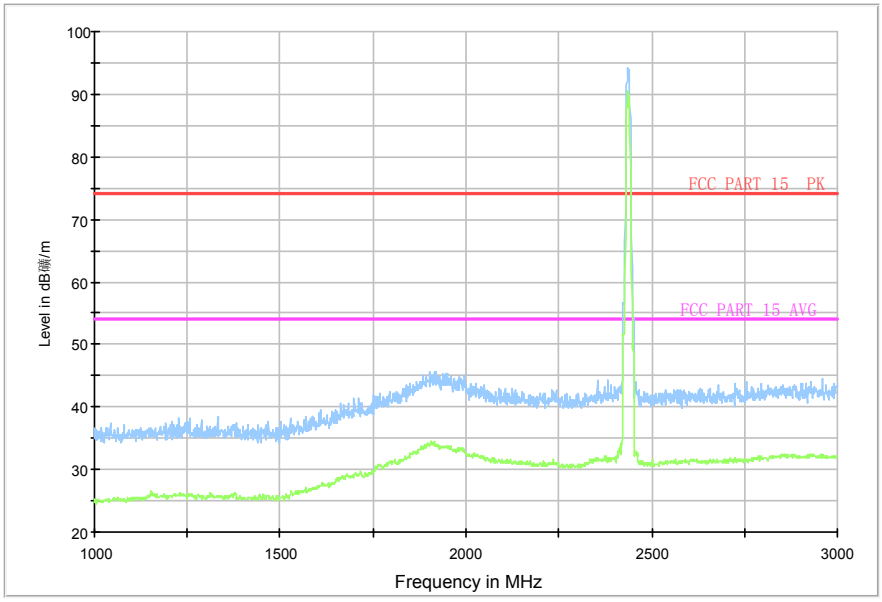

Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (802.11b, Ch6, 1 GHz-3 GHz)

©Copyright. All rights reserved by CTTL.

Normal RE_3G-18GHz

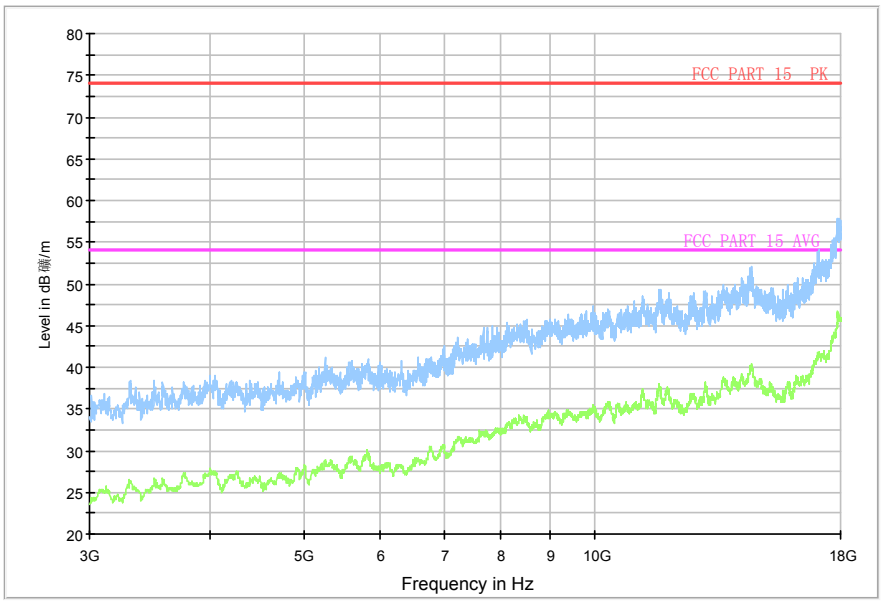

Fig.A.6.2.7 Transmitter Spurious Emission - Radiated (802.11b, Ch6, 3 GHz-18 GHz)

Normal RE_18G-26.5GHz

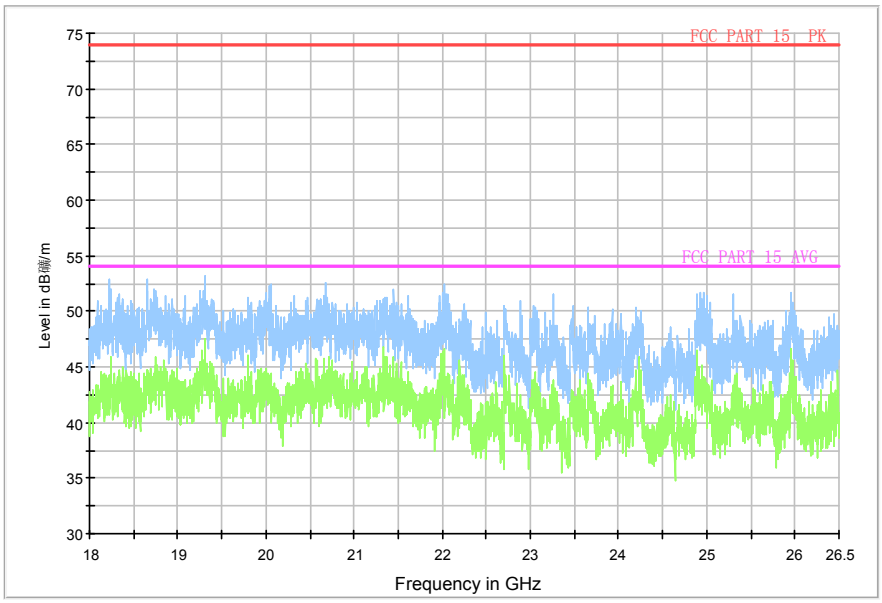

Fig.A.6.2.8 Transmitter Spurious Emission - Radiated (802.11b, Ch6, 18GHz – 26.5GHz)

©Copyright. All rights reserved by CTTL.

RE-Power_2.45G-2.5GHz

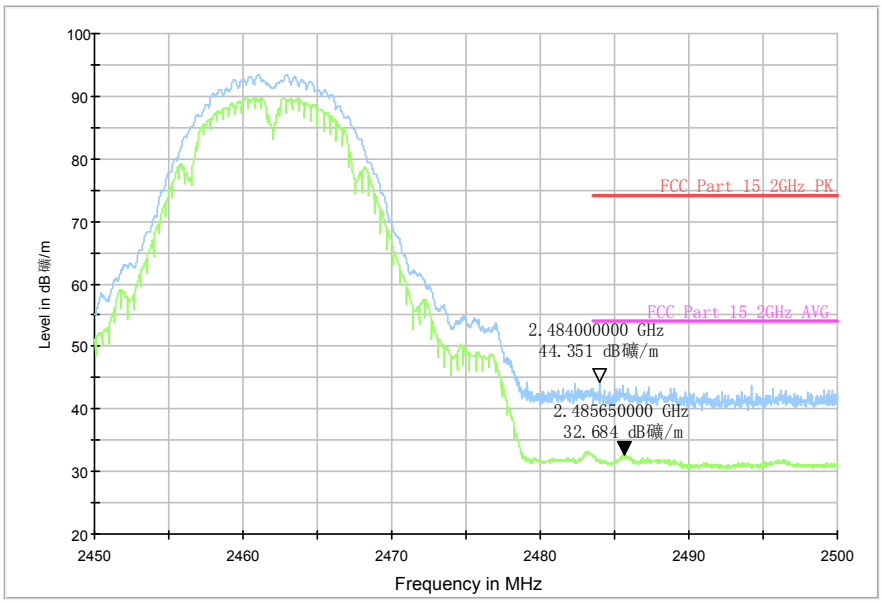

Fig.A.6.2.9 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

RE_WLAN_1G-3GHz

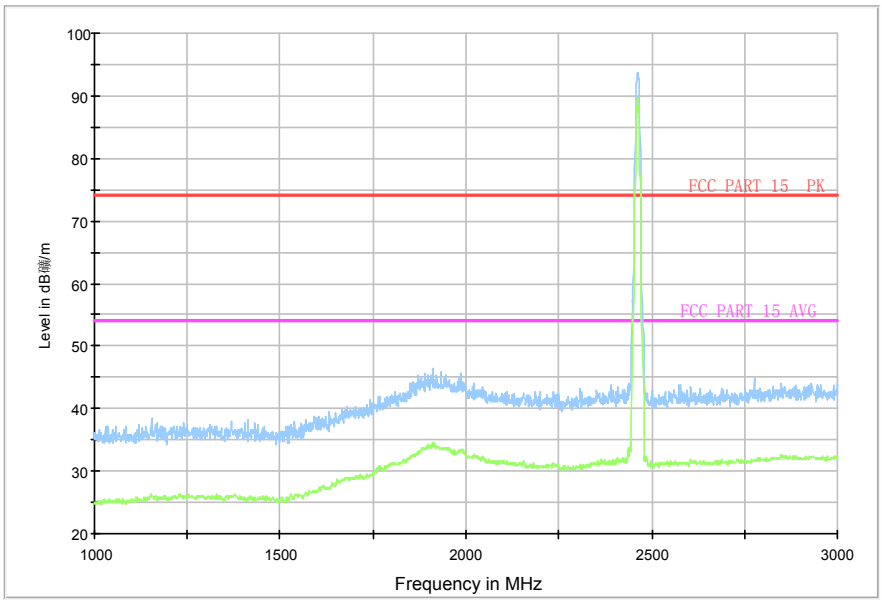

Fig.A.6.2.10 Transmitter Spurious Emission - Radiated (802.11b, Ch11, 1 GHz-3 GHz)

©Copyright. All rights reserved by CTTL.

Normal RE_3G-18GHz

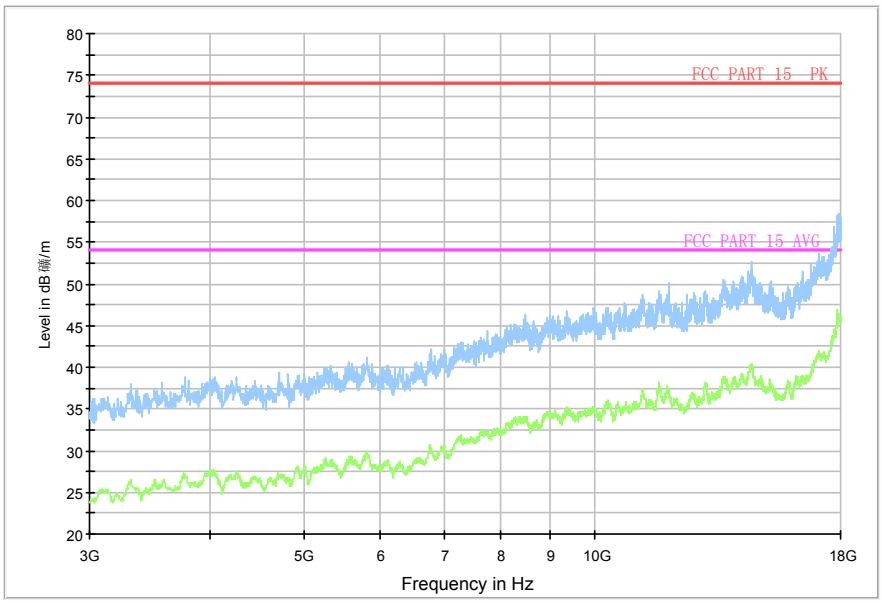

Fig.A.6.2.11 Transmitter Spurious Emission - Radiated (802.11b, Ch11, 3 GHz-18 GHz)

RE-Power_2.38G-2.43GHz

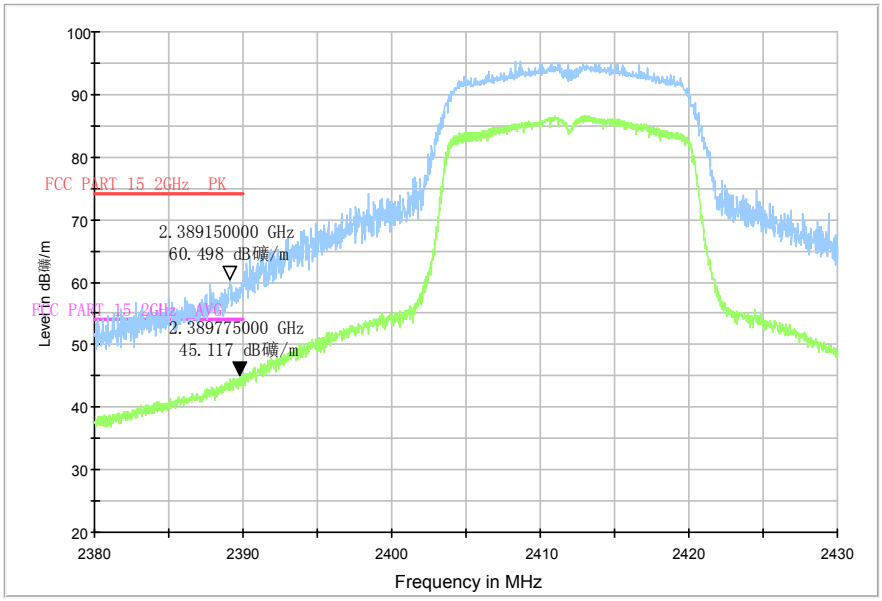

Fig.A.6.2.12 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

©Copyright. All rights reserved by CTTL.

RE_WLAN_1G-3GHz

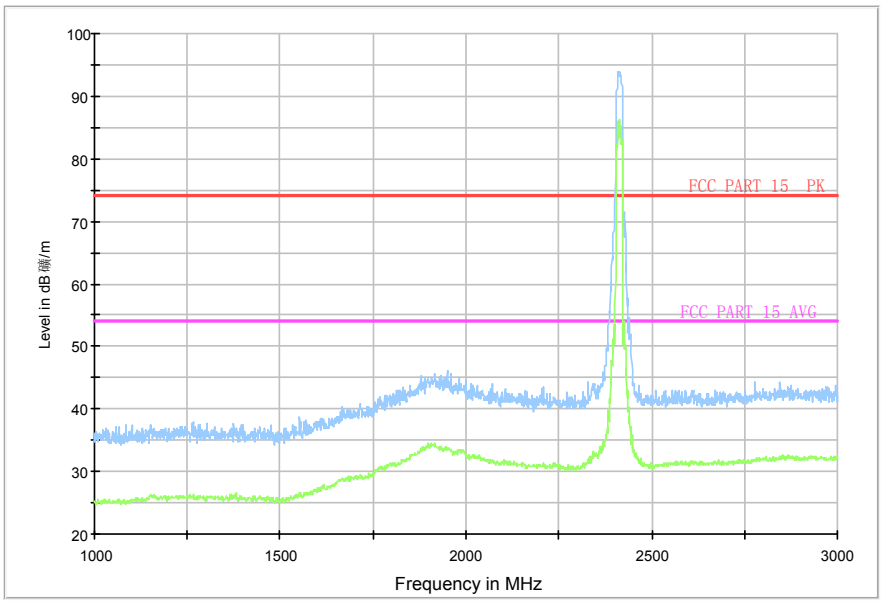

Fig.A.6.2.13 Transmitter Spurious Emission - Radiated (802.11g, Ch1, 1 GHz-3 GHz)

Normal RE_3G-18GHz

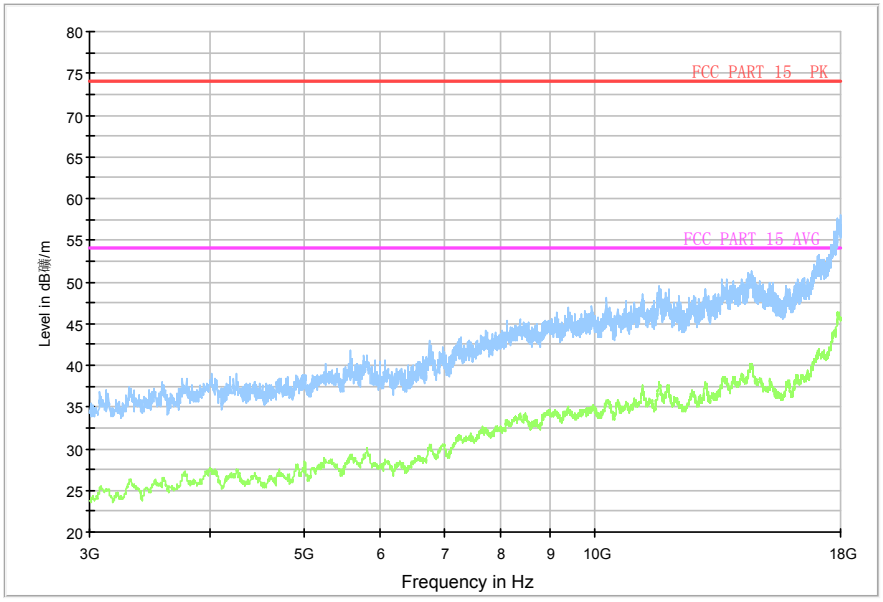

Fig.A.6.2.14 Transmitter Spurious Emission - Radiated (802.11g, Ch1, 3 GHz-18 GHz)

©Copyright. All rights reserved by CTTL.

Normal RE_30M-1GHz_10m

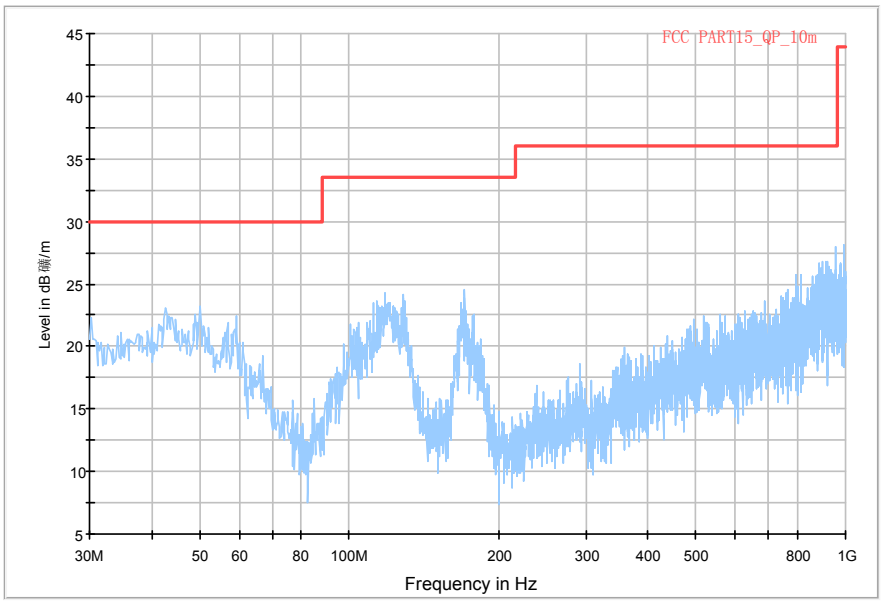

Fig.A.6.2.15 Transmitter Spurious Emission - Radiated (802.11g, Ch6, 30 MHz-1 GHz)

RE_WLAN_1G-3GHz

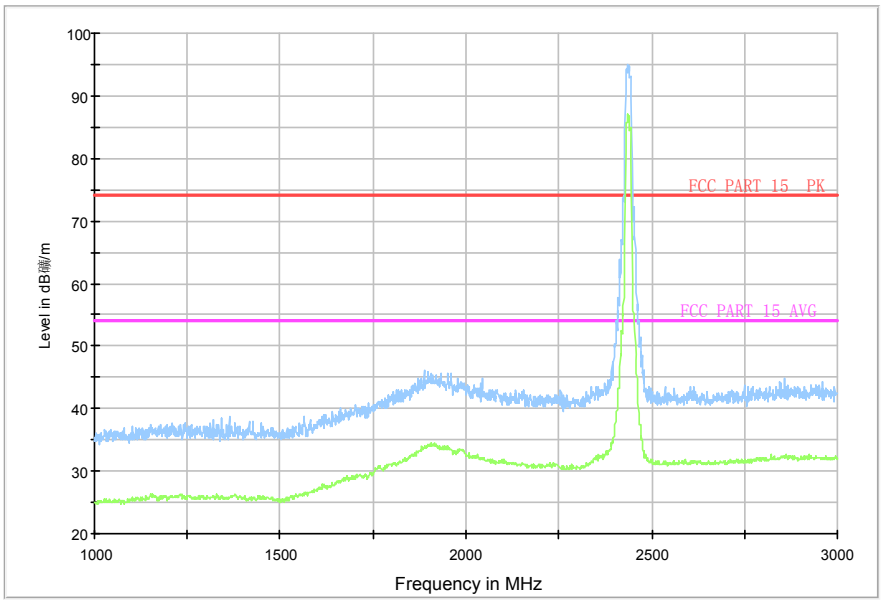

Fig.A.6.2.16 Transmitter Spurious Emission - Radiated (802.11g, Ch6, 1 GHz-3 GHz)

©Copyright. All rights reserved by CTTL.

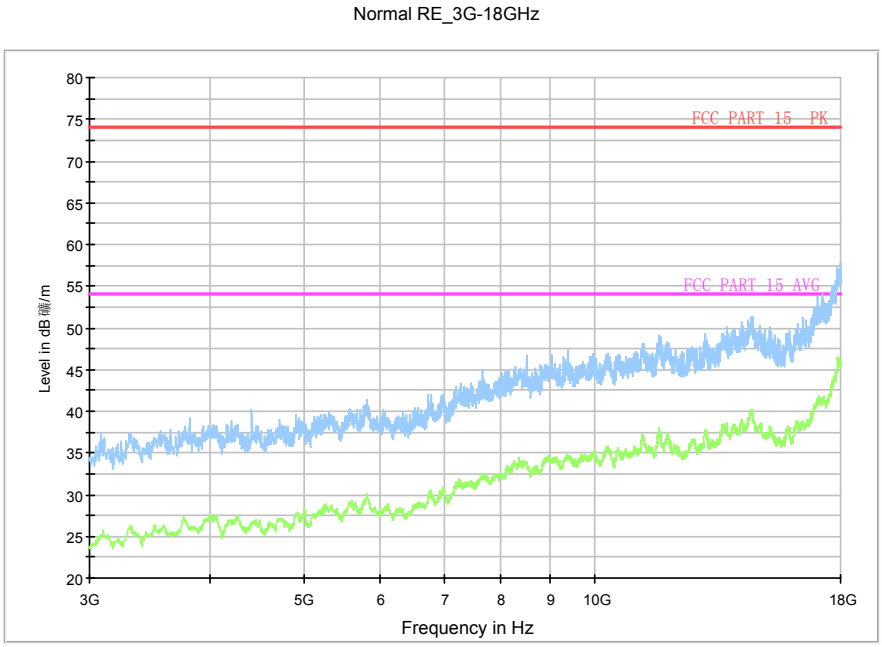

Fig.A.6.2.17 Transmitter Spurious Emission - Radiated (802.11g, Ch6, 3 GHz-18 GHz)

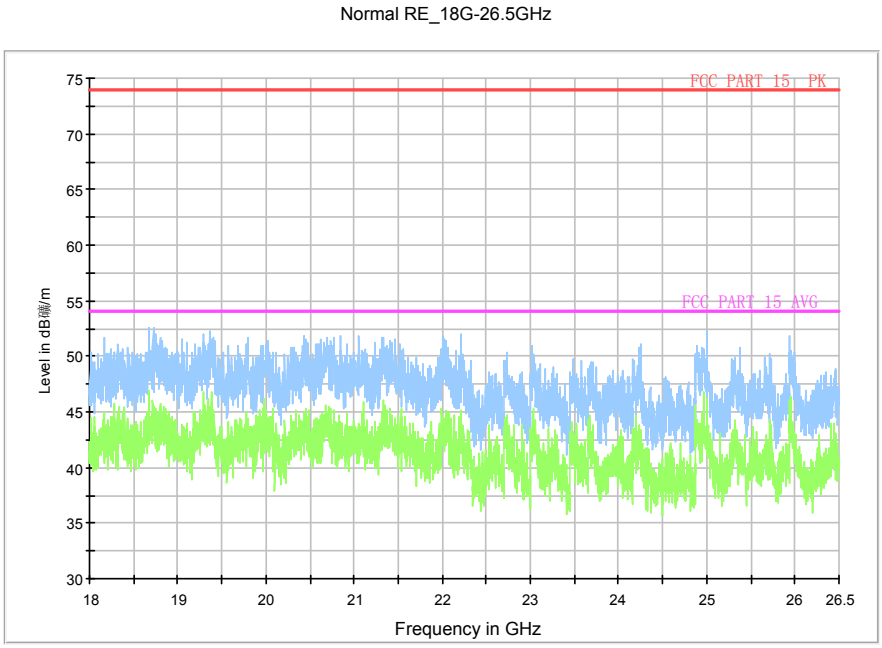

Fig.A.6.2.18 Transmitter Spurious Emission - Radiated (802.11g, Ch6, 18GHz – 26.5GHz)

©Copyright. All rights reserved by CTTL.

RE-Power_2.45G-2.5GHz

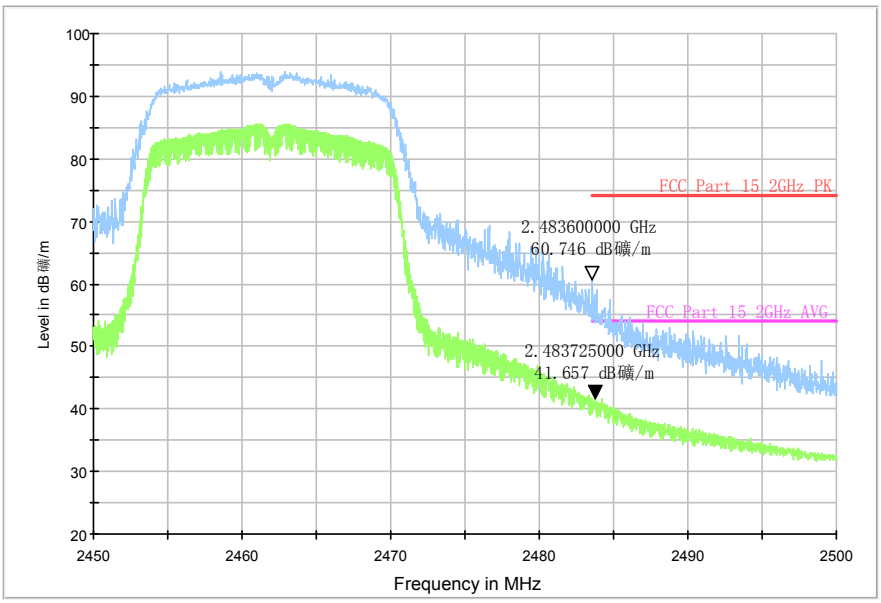

Fig.A.6.2.19 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

RE_WLAN_1G-3GHz

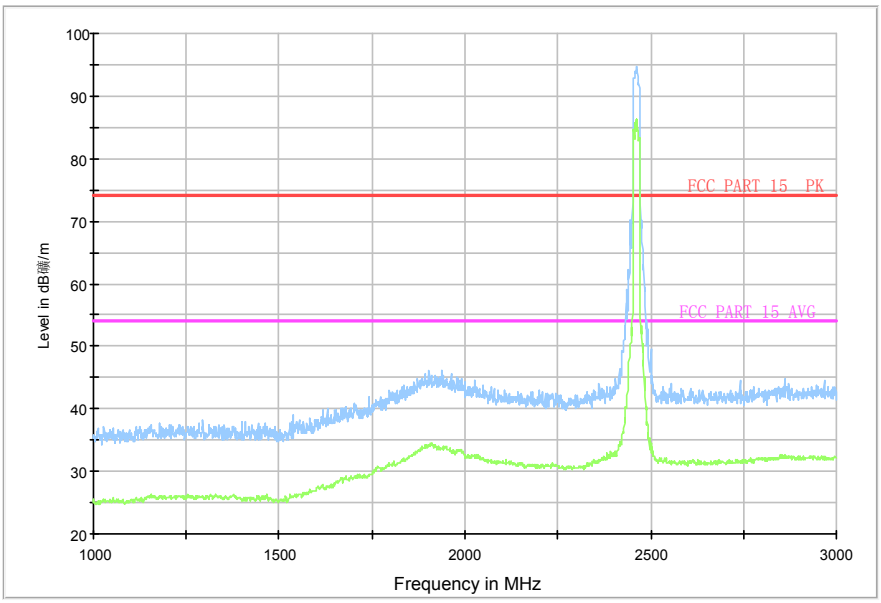

Fig.A.6.2.20 Transmitter Spurious Emission - Radiated (802.11g, Ch11, 1 GHz-3 GHz)

©Copyright. All rights reserved by CTTL.

Normal RE_3G-18GHz

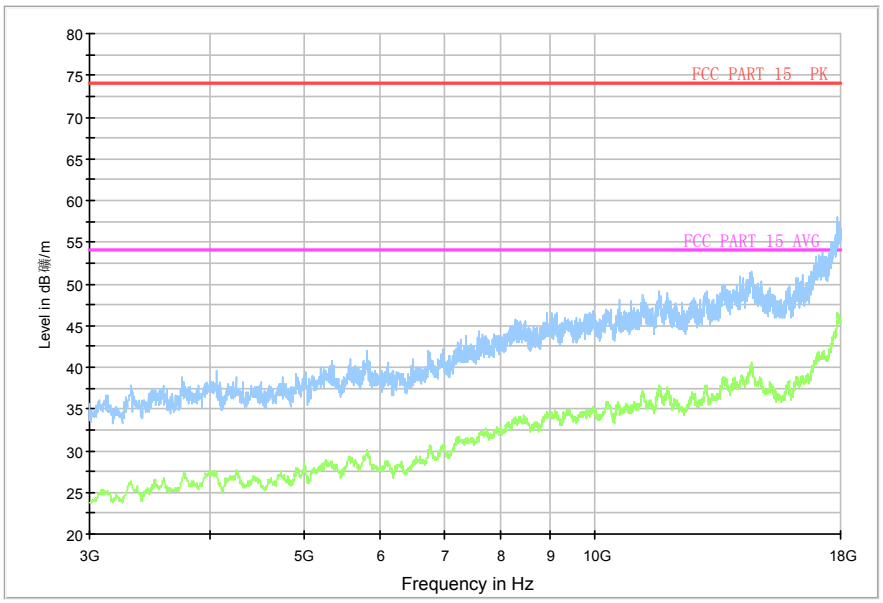

Fig.A.6.2.21 Transmitter Spurious Emission - Radiated (802.11g, Ch11, 3 GHz-18 GHz)

RE-Power_2.38G-2.43GHz

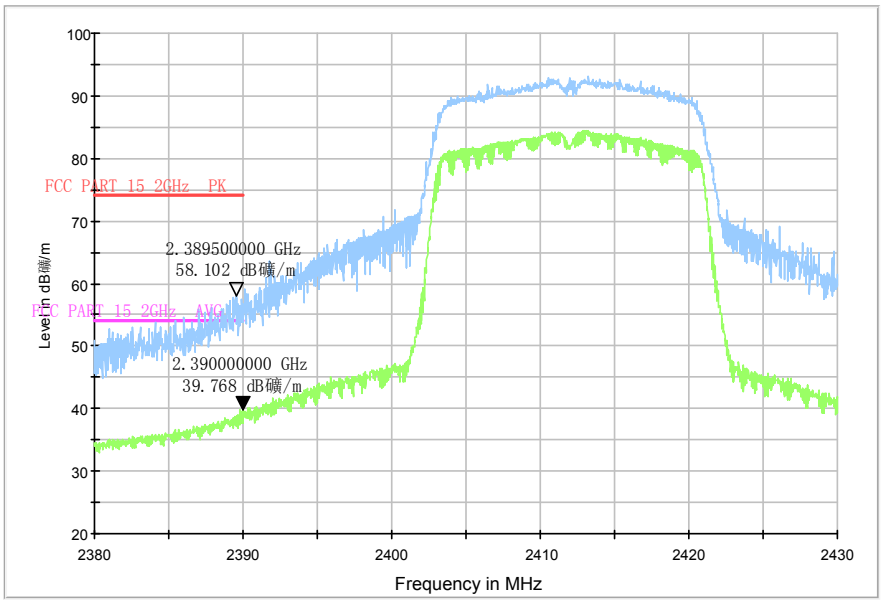

Fig.A.6.2.22 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

©Copyright. All rights reserved by CTTL.

RE_WLAN_1G-3GHz

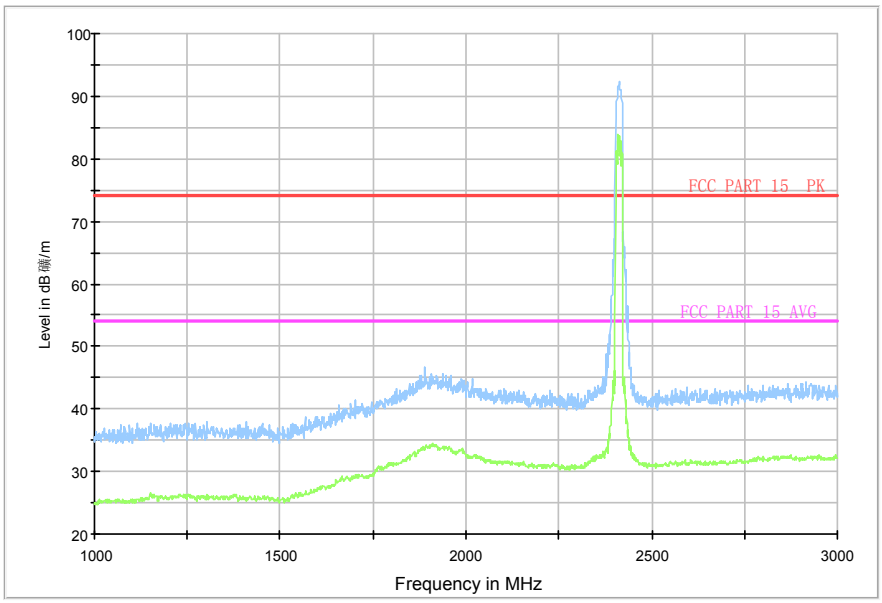

Fig.A.6.2.23 Transmitter Spurious Emission - Radiated (802.11n-HT20, Ch1, 1 GHz-3 GHz)

Normal RE_3G-18GHz

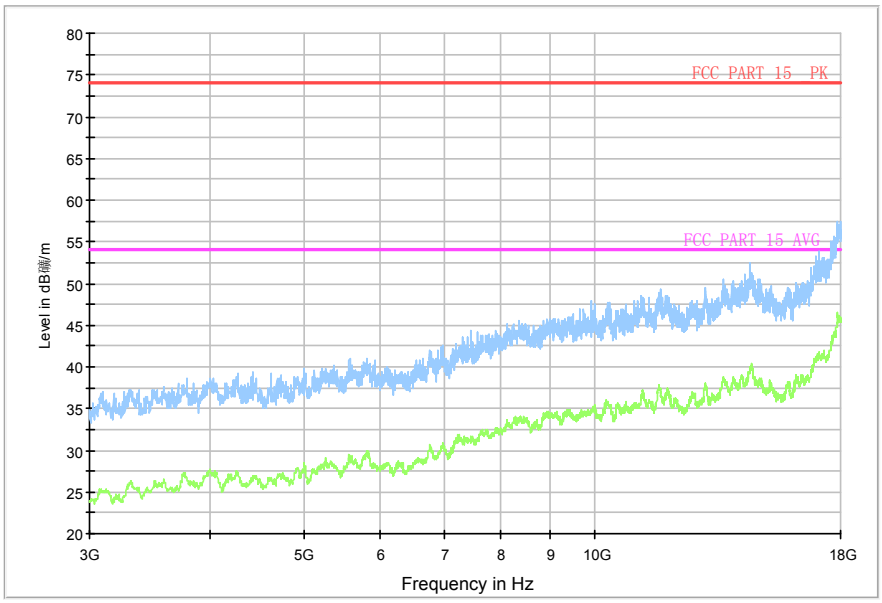

Fig.A.6.2.24 Transmitter Spurious Emission - Radiated (802.11n-HT20, Ch1, 3 GHz-18 GHz)

©Copyright. All rights reserved by CTTL.

Normal RE_30M-1GHz_10m

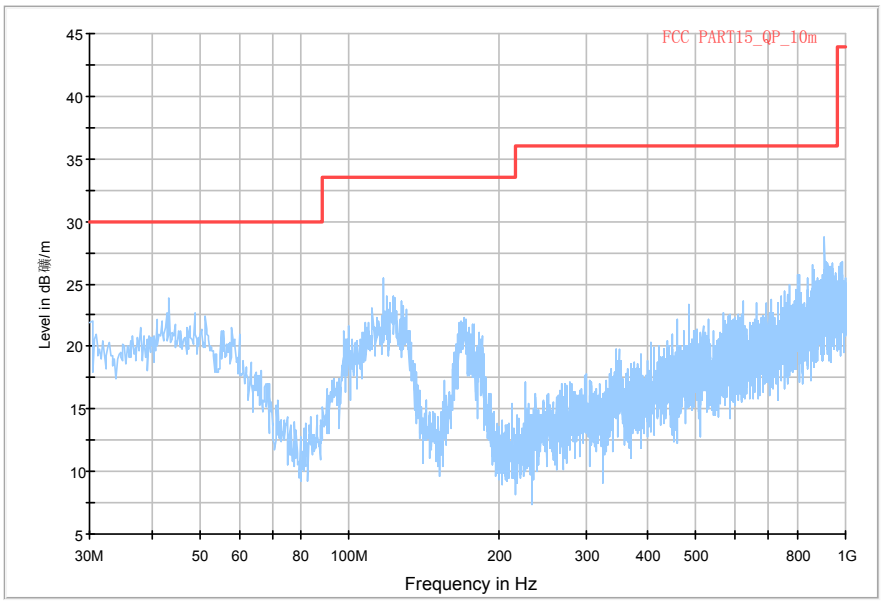

Fig.A.6.2.25 Transmitter Spurious Emission - Radiated (802.11n-HT20, Ch6, 30 MHz-1 GHz)

RE_WLAN_1G-3GHz

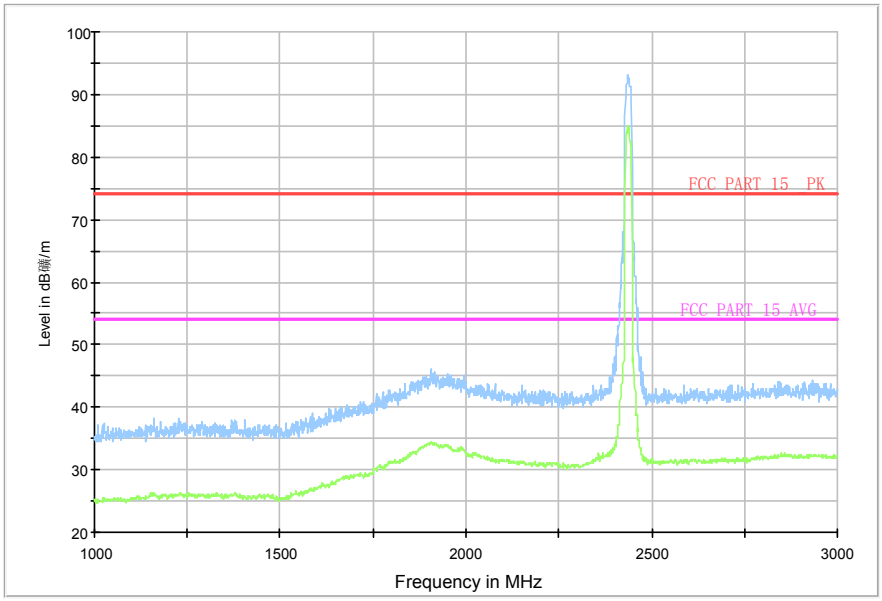

Fig.A.6.2.26 Transmitter Spurious Emission - Radiated (802.11n-HT20, Ch6, 1 GHz-3 GHz)

©Copyright. All rights reserved by CTTL.

Normal RE_3G-18GHz

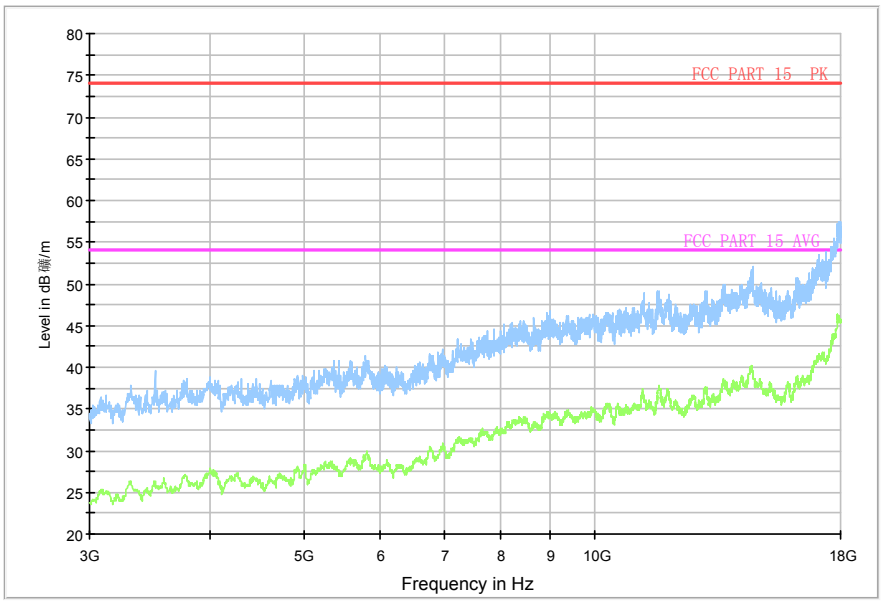

Fig.A.6.2.27 Transmitter Spurious Emission - Radiated (802.11n-HT20, Ch6, 3 GHz-18 GHz)

Normal RE_18G-26.5GHz

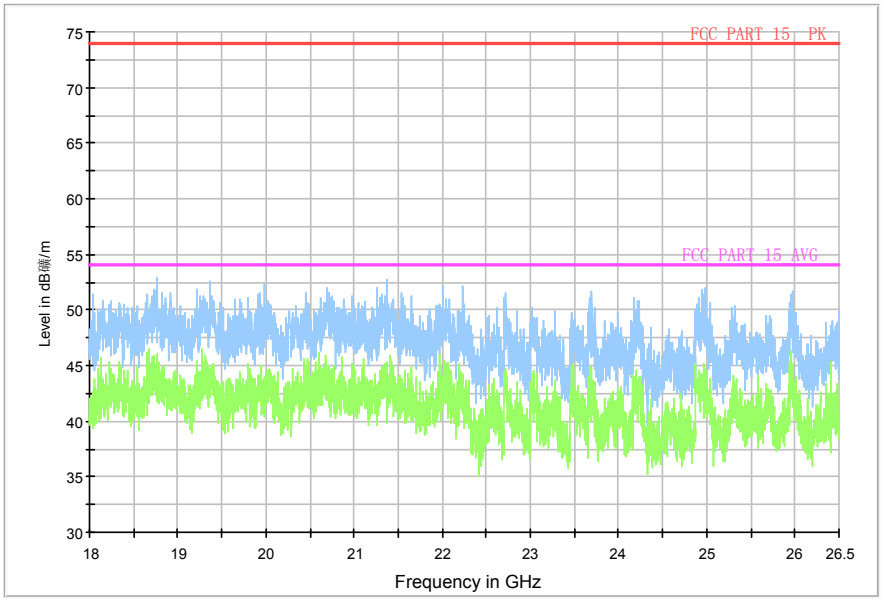

Fig.A.6.2.28 Transmitter Spurious Emission - Radiated (802.11n-HT20, Ch6, 18GHz – 26.5GHz)

©Copyright. All rights reserved by CTTL.

RE-Power_2.45G-2.5GHz

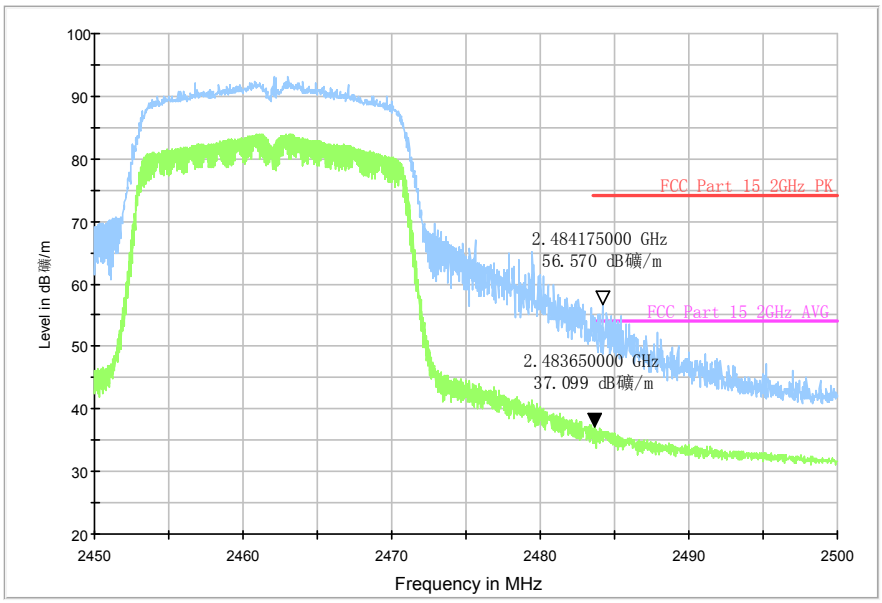

Fig.A.6.2.29 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

RE_WLAN_1G-3GHz

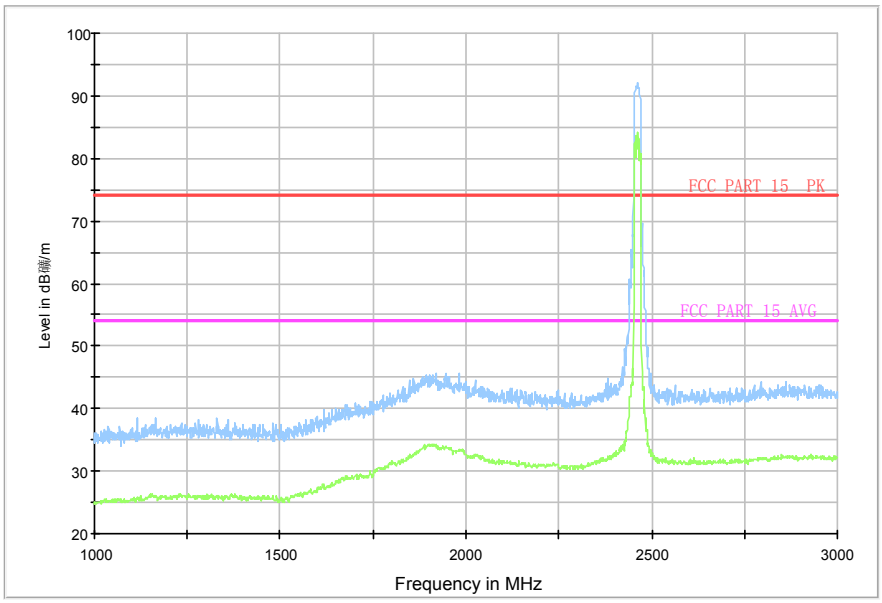

Fig.A.6.2.30 Transmitter Spurious Emission - Radiated (802.11n-HT20, Ch11, 1 GHz-3 GHz)

©Copyright. All rights reserved by CTTL.

Normal RE_3G-18GHz

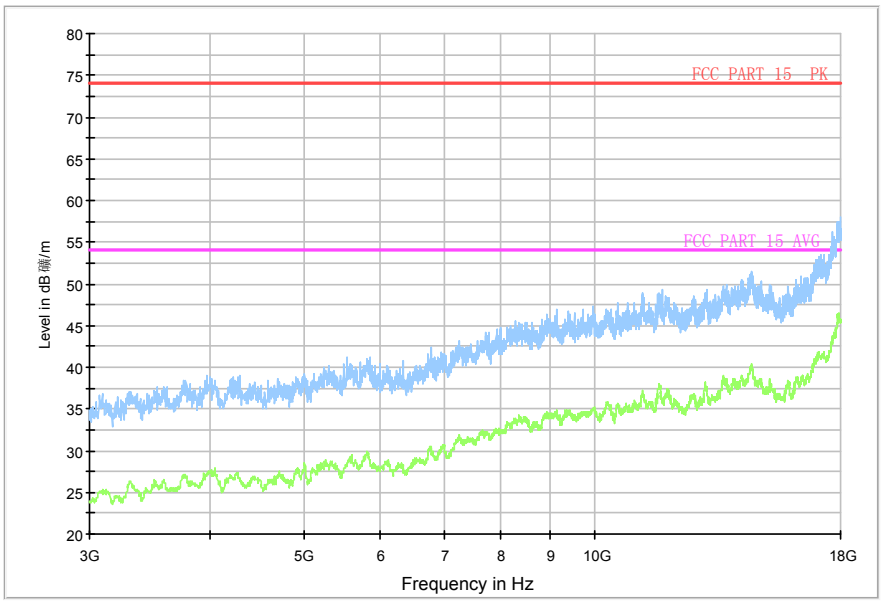

Fig.A.6.2.31 Transmitter Spurious Emission - Radiated (802.11n-HT20, Ch11, 3 GHz-18 GHz)

RE-Power_2.38G-2.43GHz

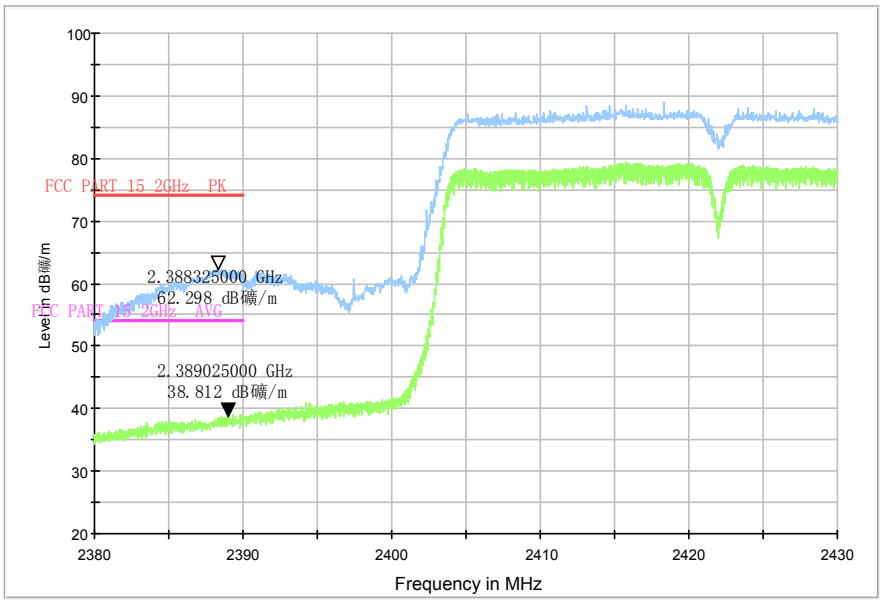

Fig.A.6.2.32 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.45GHz

©Copyright. All rights reserved by CTTL.

RE_WLAN_1G-3GHz

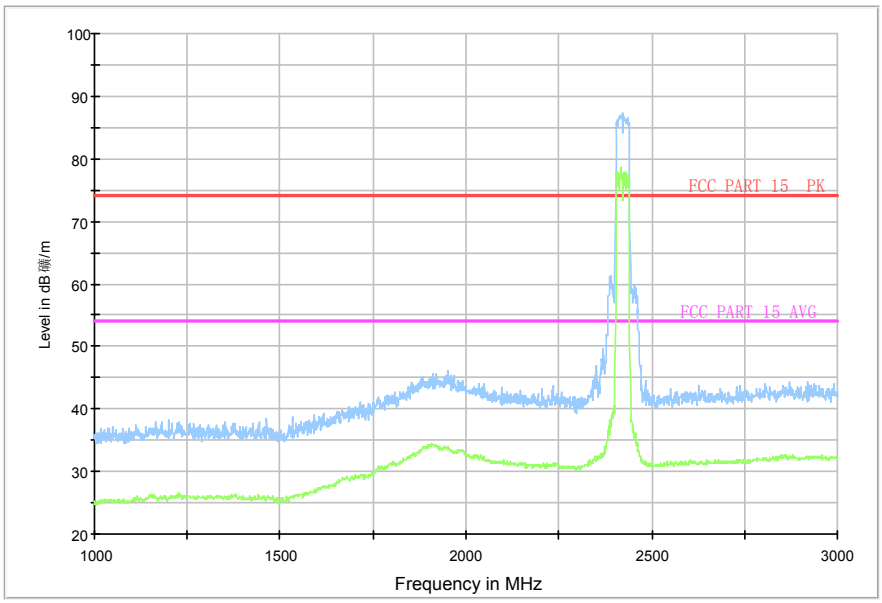

Fig.A.6.2.33 Transmitter Spurious Emission - Radiated (802.11n-HT40, ch3, 1 GHz-3 GHz)

Normal RE_3G-18GHz

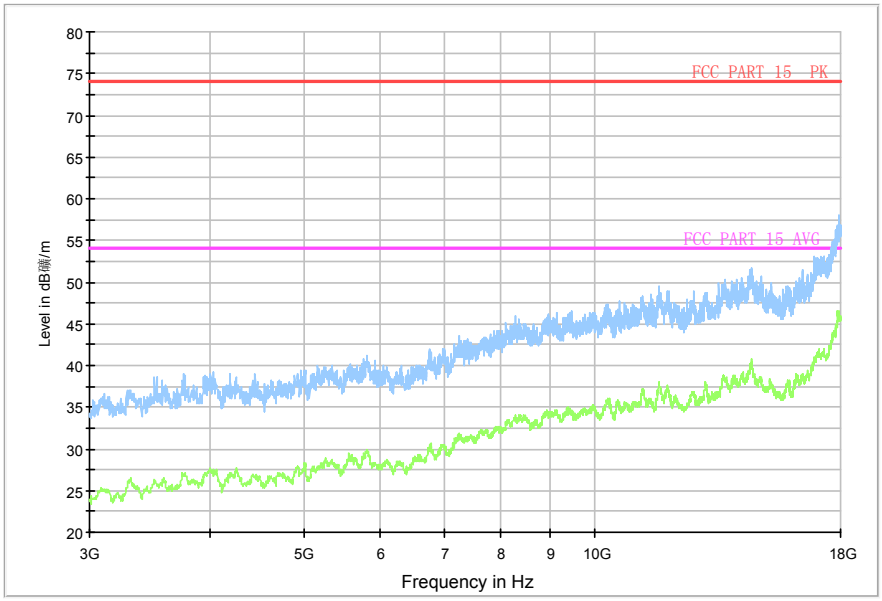

Fig.A.6.2.34 Transmitter Spurious Emission - Radiated (802.11n-HT40, ch3, 3 GHz-18 GHz)

©Copyright. All rights reserved by CTTL.

Normal RE_30M-1GHz_10m

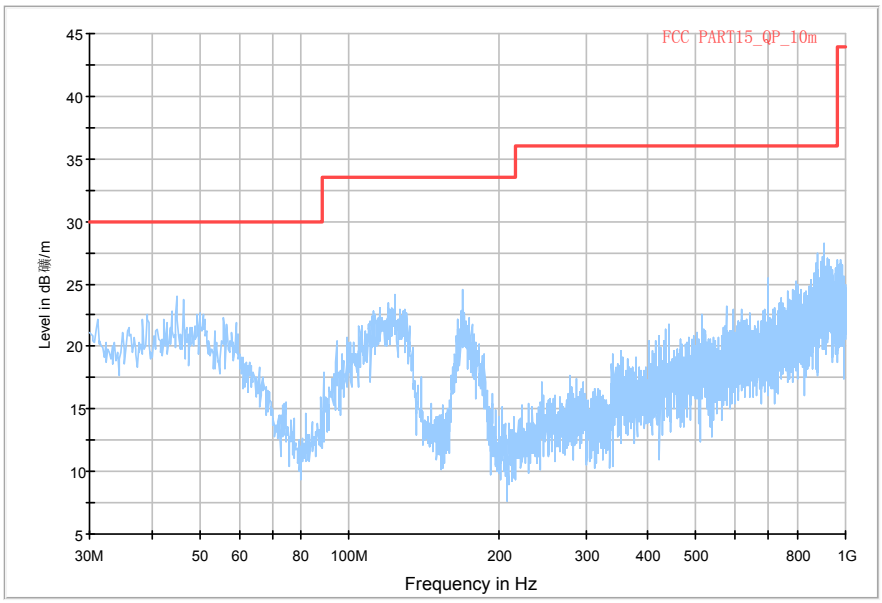

Fig.A.6.2.35 Transmitter Spurious Emission - Radiated (802.11n-HT40, Ch6, 30 MHz-1 GHz)

RE_WLAN_1G-3GHz

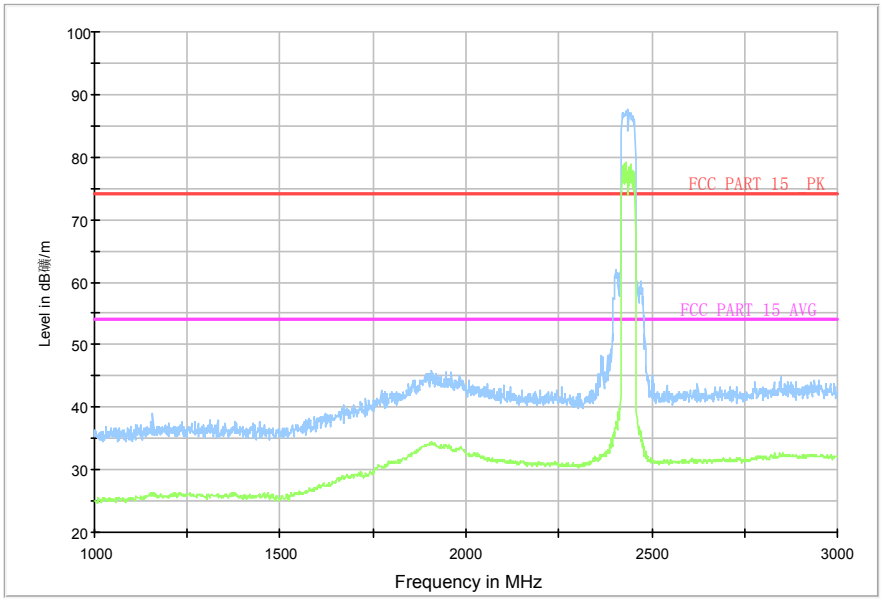

Fig.A.6.2.36 Transmitter Spurious Emission - Radiated (802.11n-HT40, Ch6, 1 GHz-3 GHz)

©Copyright. All rights reserved by CTTL.

Normal RE_3G-18GHz

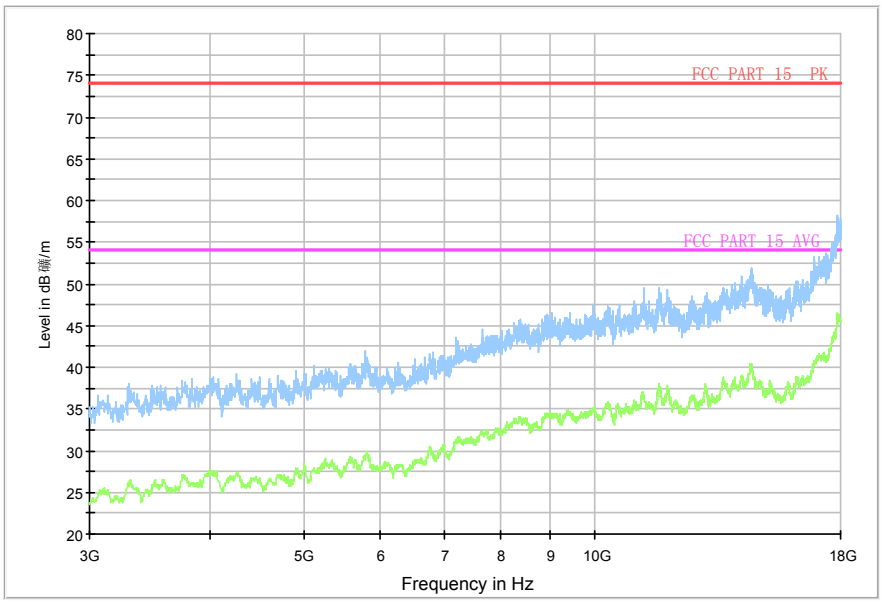

Fig.A.6.2.37 Transmitter Spurious Emission - Radiated (802.11n-HT40, Ch6, 3 GHz-18 GHz)

Normal RE_18G-26.5GHz

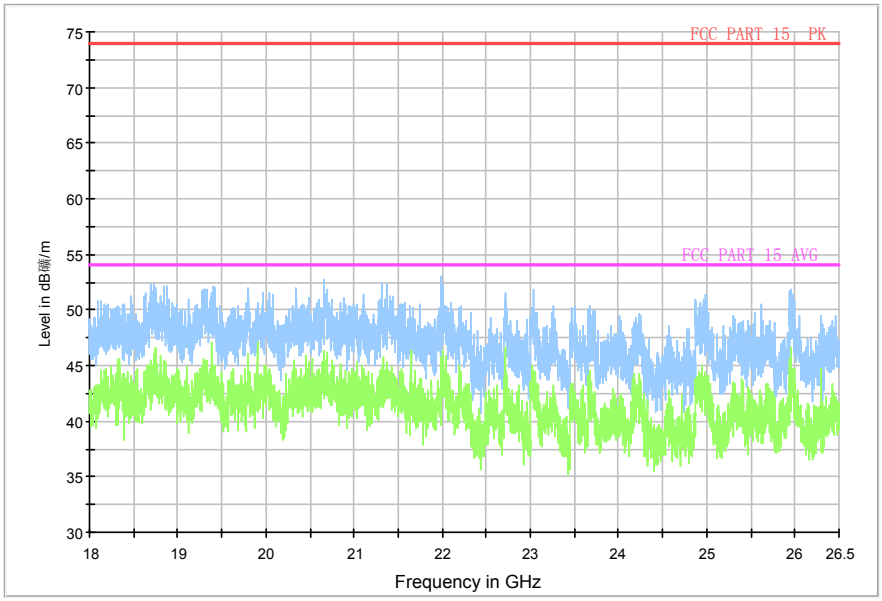

Fig.A.6.2.38 Transmitter Spurious Emission - Radiated (802.11n-HT40, Ch6, 18GHz – 26.5GHz)

©Copyright. All rights reserved by CTTL.

RE-Power_2.45G-2.5GHz

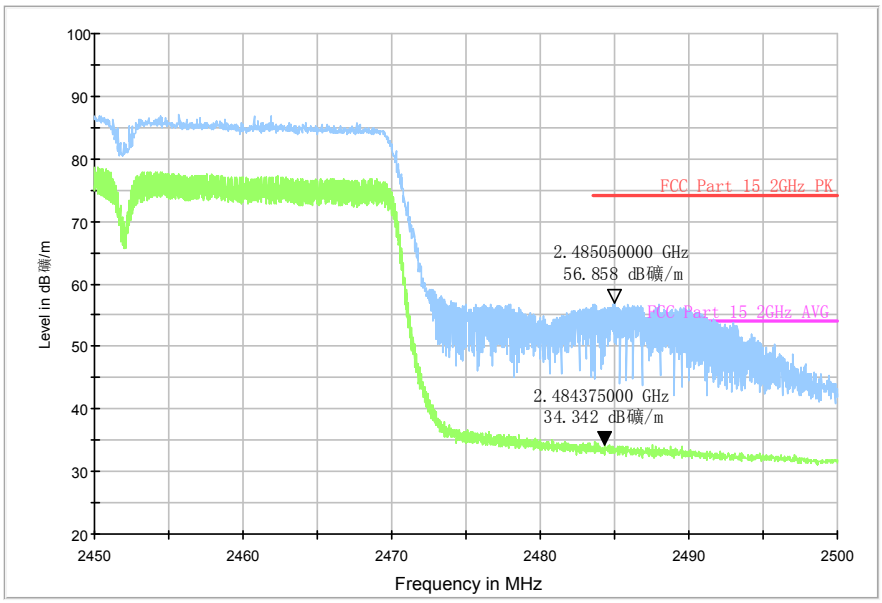

Fig.A.6.2.39 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

RE_WLAN_1G-3GHz

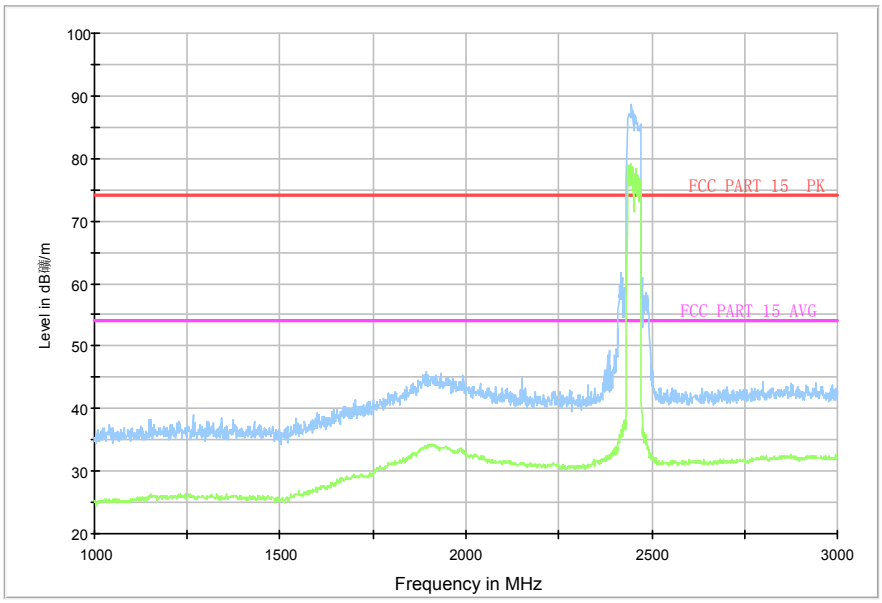

Fig.A.6.2.40 Transmitter Spurious Emission - Radiated (802.11n-HT40, ch9, 1 GHz-3 GHz)

©Copyright. All rights reserved by CTTL.

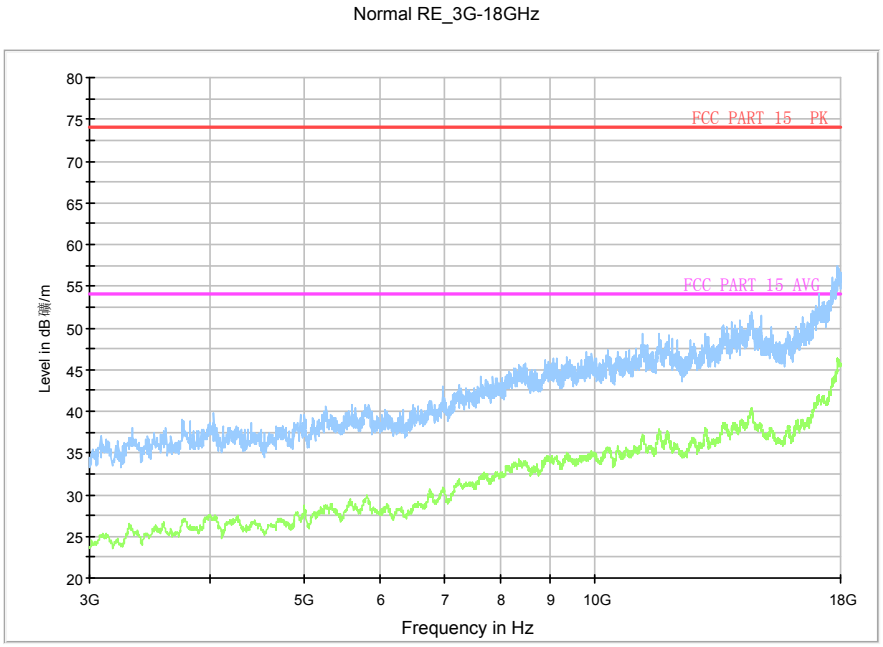

Fig.A.6.2.41 Transmitter Spurious Emission - Radiated (802.11n-HT40, ch9, 3 GHz-18 GHz)

©Copyright. All rights reserved by CTTL.

A.7. AC Power-line Conducted Emission

Method of Measurement: See ANSI C63.10-2009-clause 6.2

1 The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.

2 If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.

3 The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.

4 If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

5 If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.36 Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

Test Condition:

Voltage（V）	Frequency（Hz）
120	60

©Copyright. All rights reserved by CTTL.

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.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 (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.				

Conclusion: Pass

Test graphs as below:

©Copyright. All rights reserved by CTTL.

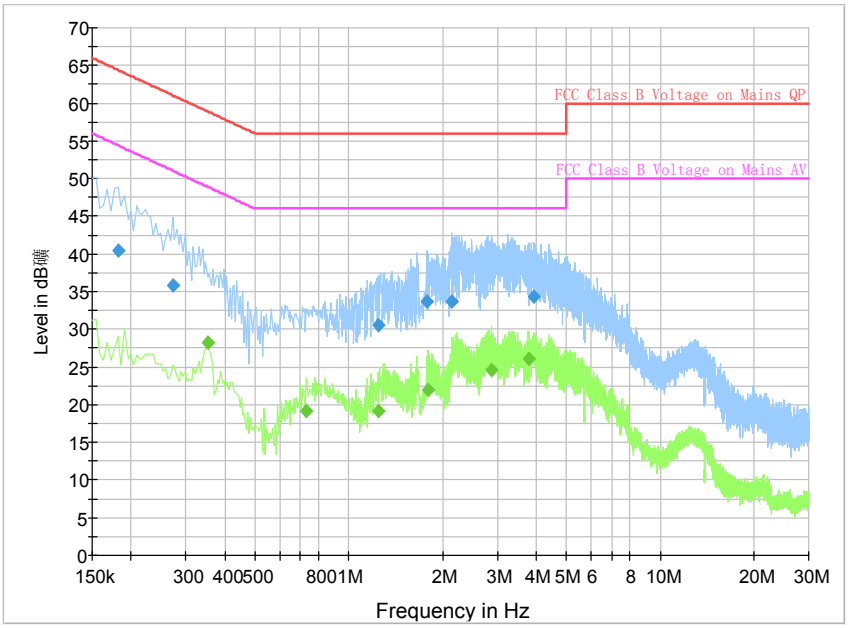

Fig.A.7.1 AC Powerline Conducted Emission-802.11b

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)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.181500	40.4	2000.0	9.000	On	L1	19.7	24.0	64.4
0.271500	35.8	2000.0	9.000	On	L1	19.8	25.3	61.1
1.239000	30.5	2000.0	9.000	On	L1	19.7	25.5	56.0
1.774500	33.6	2000.0	9.000	On	L1	19.6	22.4	56.0
2.139000	33.8	2000.0	9.000	On	L1	19.6	22.2	56.0
3.916500	34.3	2000.0	9.000	On	L1	19.7	21.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.352500	28.2	2000.0	9.000	On	N	19.8	20.7	48.9
0.730500	19.1	2000.0	9.000	On	L1	19.8	26.9	46.0
1.239000	19.1	2000.0	9.000	On	L1	19.7	26.9	46.0
1.792500	21.9	2000.0	9.000	On	L1	19.6	24.1	46.0
2.863500	24.5	2000.0	9.000	On	L1	19.7	21.5	46.0
3.795000	26.2	2000.0	9.000	On	L1	19.7	19.8	46.0

©Copyright. All rights reserved by CTTL.

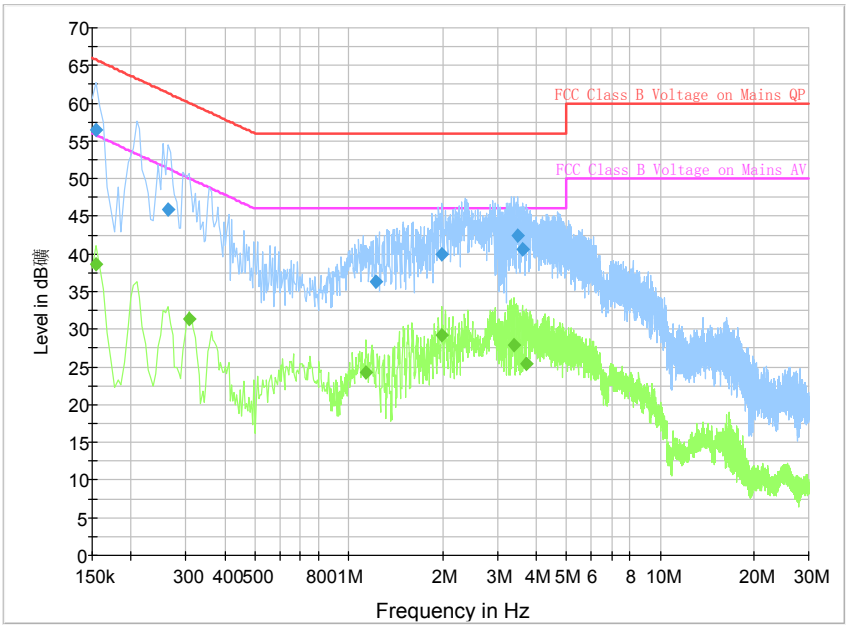

Fig.A.7.2 AC Powerline Conducted Emission-Idle

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)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	56.5	2000.0	9.000	On	L1	19.9	9.3	65.8
0.262500	45.9	2000.0	9.000	On	L1	19.7	15.5	61.4
1.221000	36.4	2000.0	9.000	On	L1	19.7	19.6	56.0
1.995000	40.0	2000.0	9.000	On	L1	19.6	16.0	56.0
3.489000	42.4	2000.0	9.000	On	N	19.6	13.6	56.0
3.610500	40.6	2000.0	9.000	On	L1	19.7	15.4	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	38.6	2000.0	9.000	On	L1	19.9	17.1	55.8
0.307500	31.3	2000.0	9.000	On	N	19.8	18.7	50.0
1.135500	24.2	2000.0	9.000	On	L1	19.6	21.8	46.0
1.990500	29.2	2000.0	9.000	On	L1	19.6	16.8	46.0
3.385500	27.9	2000.0	9.000	On	N	19.7	18.1	46.0
3.705000	25.5	2000.0	9.000	On	L1	19.7	20.5	46.0

©Copyright. All rights reserved by CTTL.

ANNEX B: Accreditation Certificate

China National Accreditation Service for Conformity Assessment

LABORATORY ACCREDITATION CERTIFICATE

(No. CNAS L0570)

Telecommunication Technology Labs,

Academy of Telecommunication Research, MIIT

No.52, Huayuan North Road, Haidian District, Beijing, China

No.51, Xueyuan Road, Haidian District, Beijing, China

to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing and calibration.

The scope of accreditation is detailed in the attached schedule bearing the same accreditation number as above. The schedule forms an integral part of this certificate.

Date of Issue: 2014-10-29

Date of Expiry: 2017-06-19

Date of Initial Accreditation: 1998-07-03

Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment (CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is the signatory to International Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (ILAC MRA) and Asia Pacific Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (APLAC MRA).

No.CNAS AL 2 0011149

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

©Copyright. All rights reserved by CTTL.