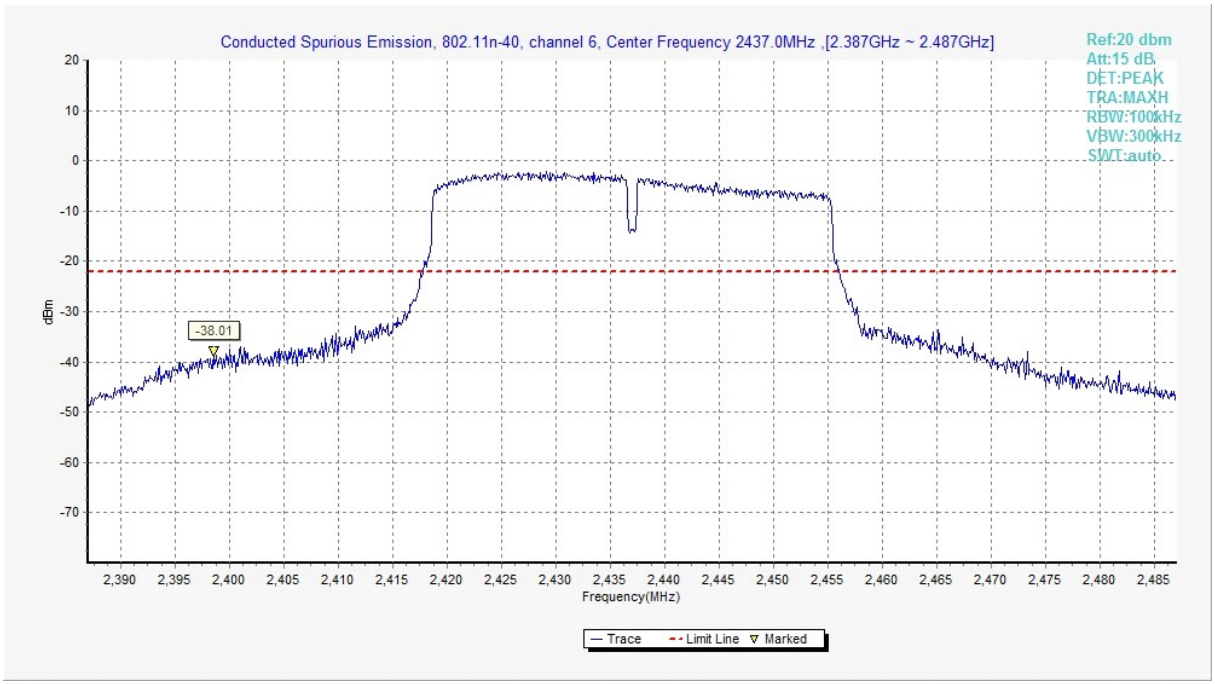

Fig.A.6.1.81 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, Center Frequency)

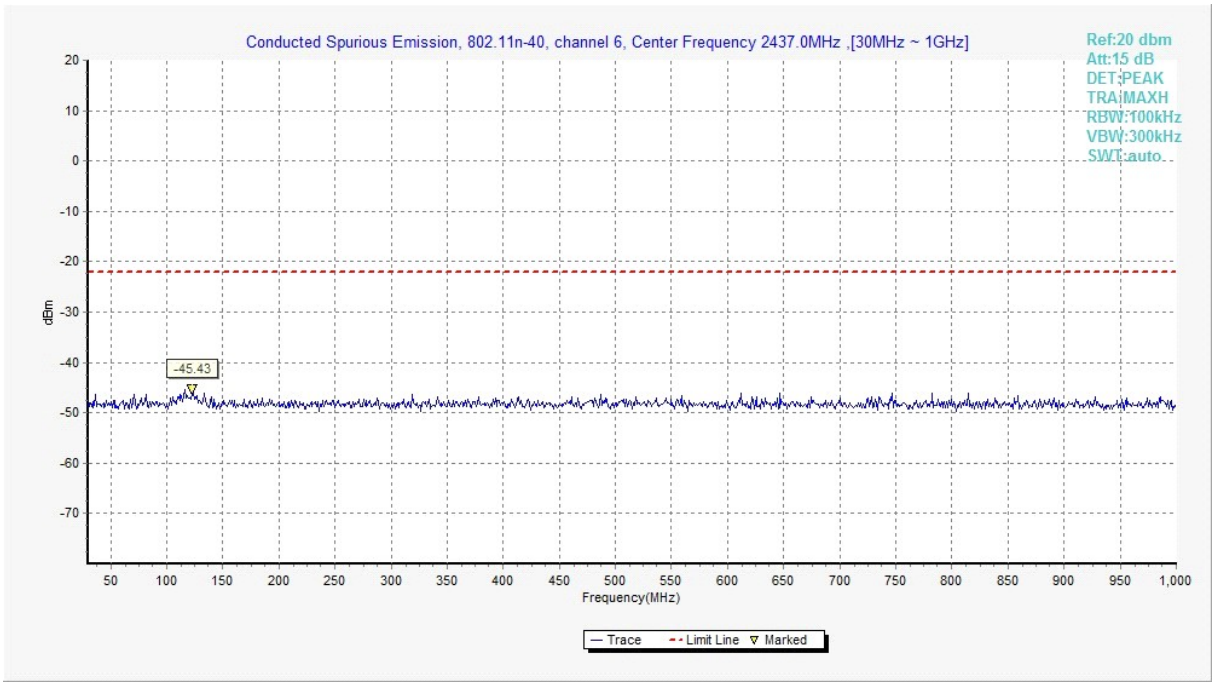

Fig.A.6.1.82 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 30 MHz-1 GHz)

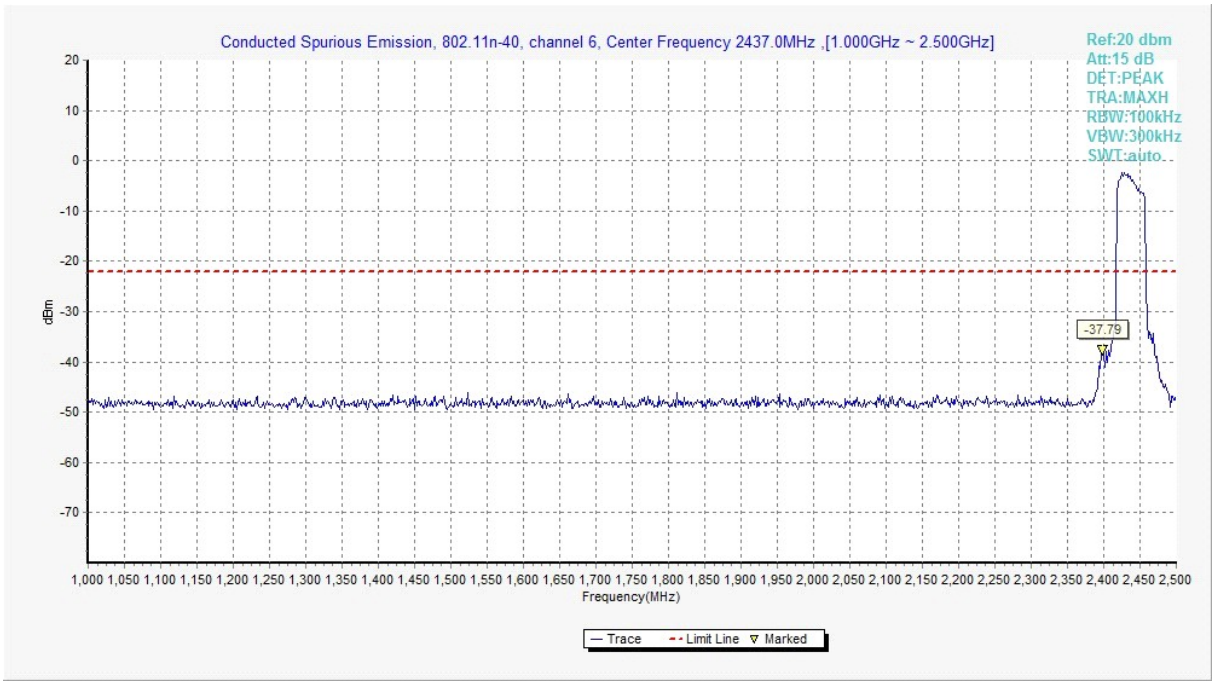

Fig.A.6.1.83 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 1 GHz-2.5 GHz)

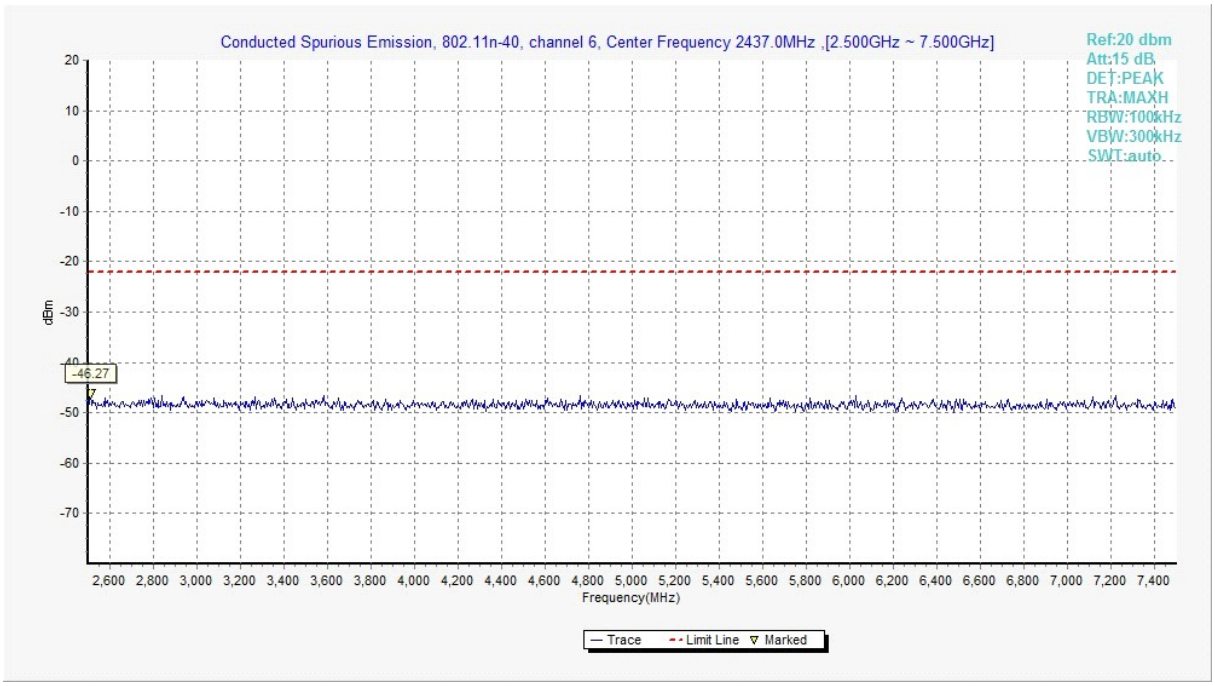

Fig.A.6.1.84 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 2.5 GHz-7.5 GHz)

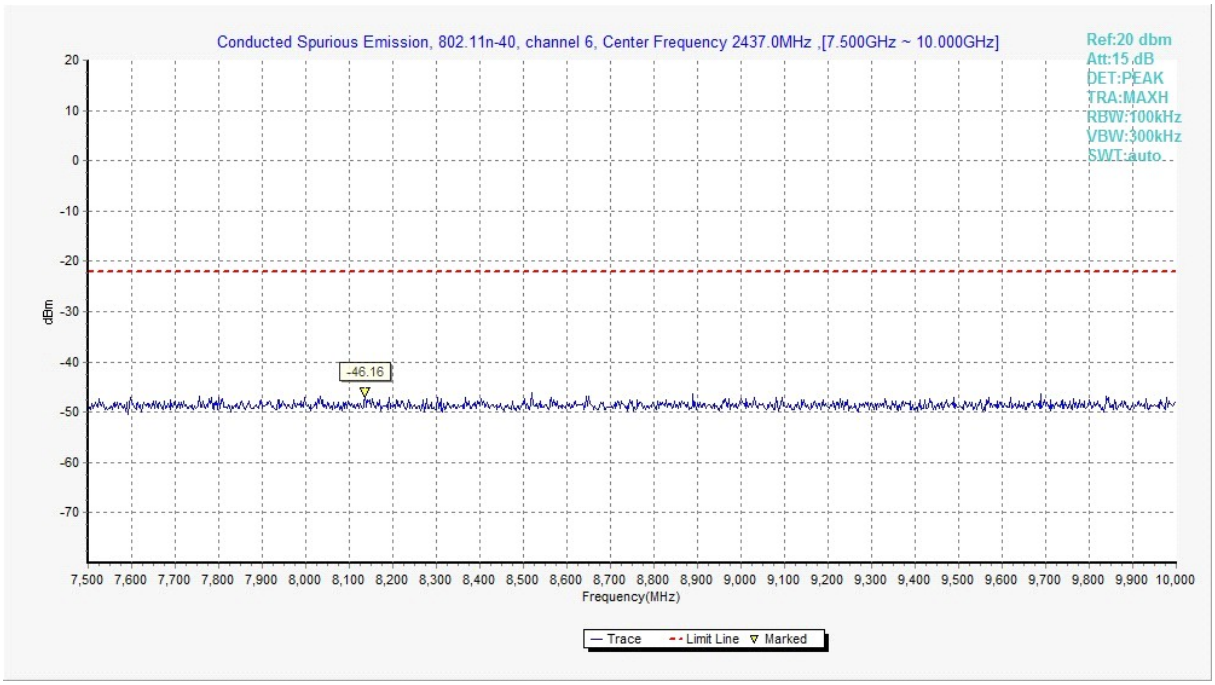

Fig.A.6.1.85 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 7.5 GHz-10 GHz)

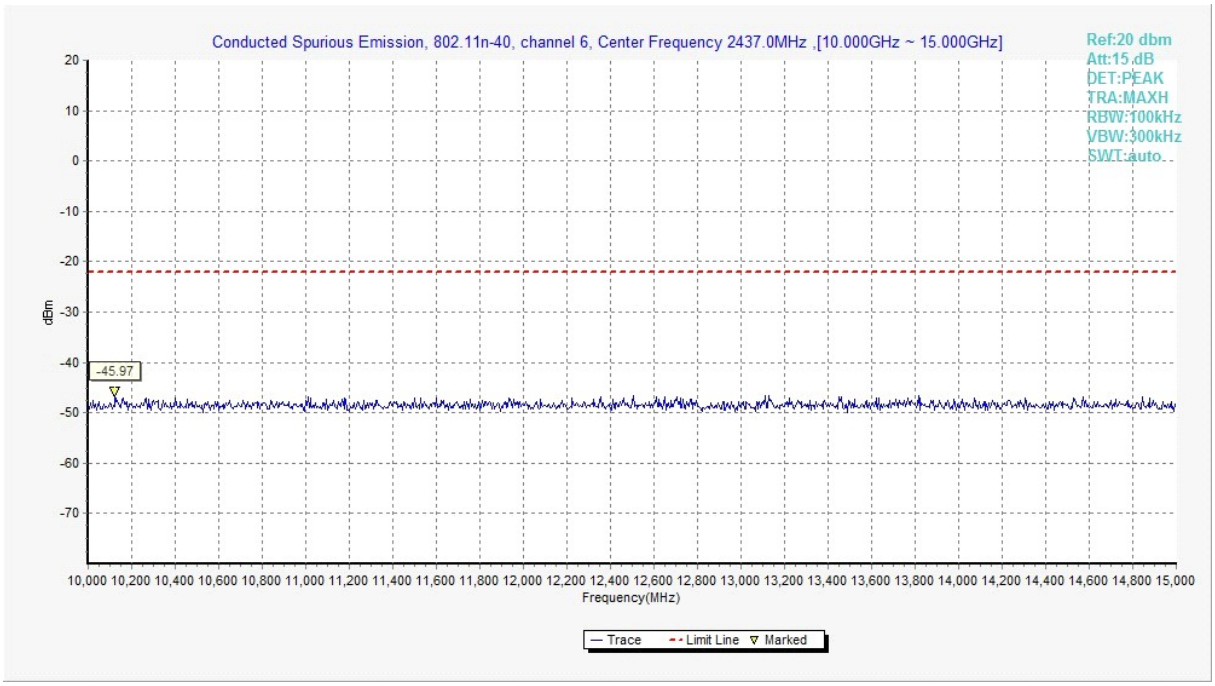

Fig.A.6.1.86 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 10 GHz-15 GHz)

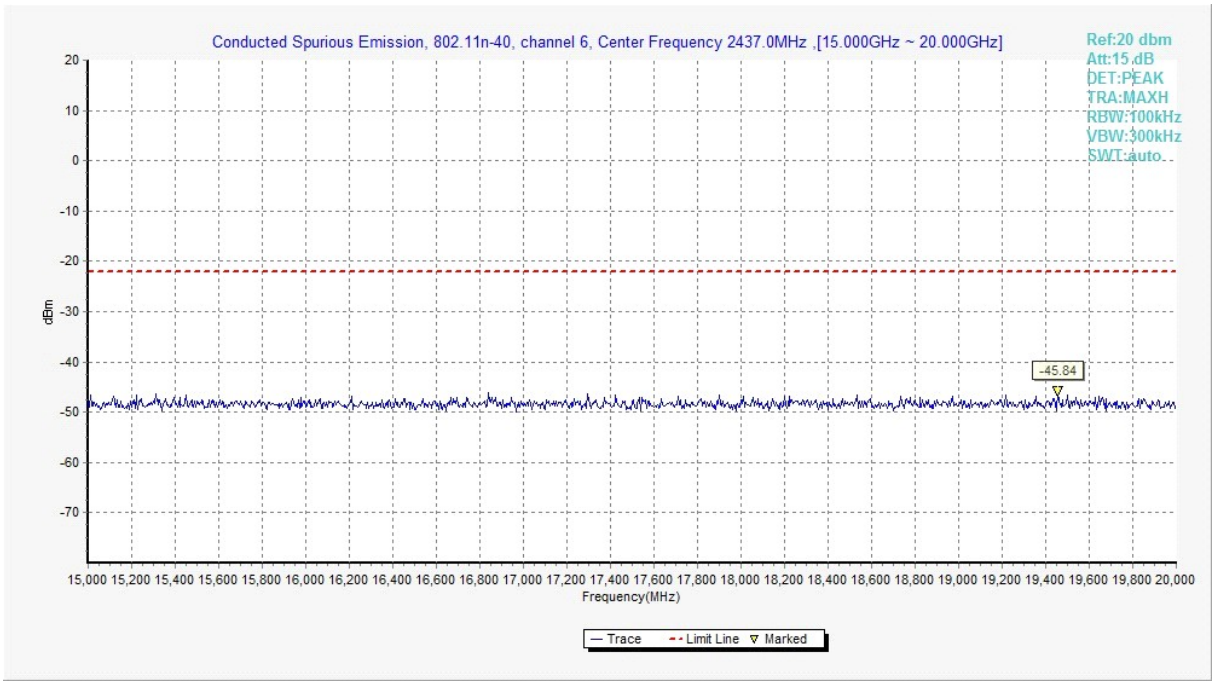

Fig.A.6.1.87 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 15 GHz-20 GHz)

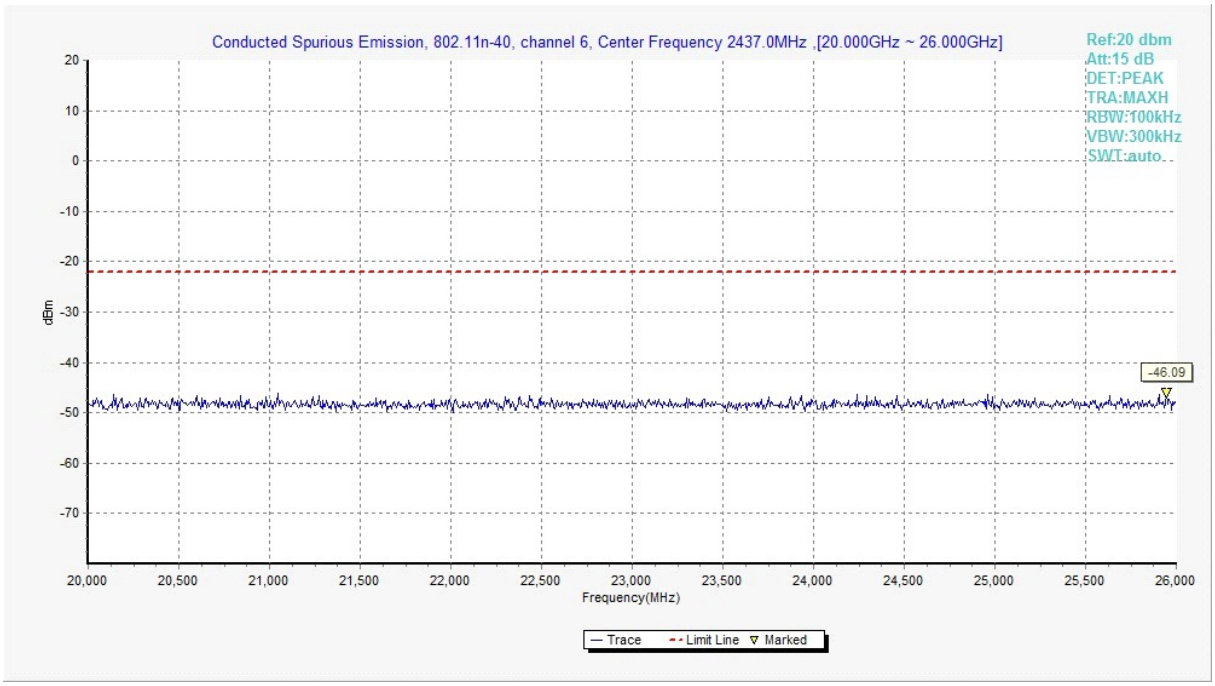

Fig.A.6.1.88 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 20 GHz-26 GHz)

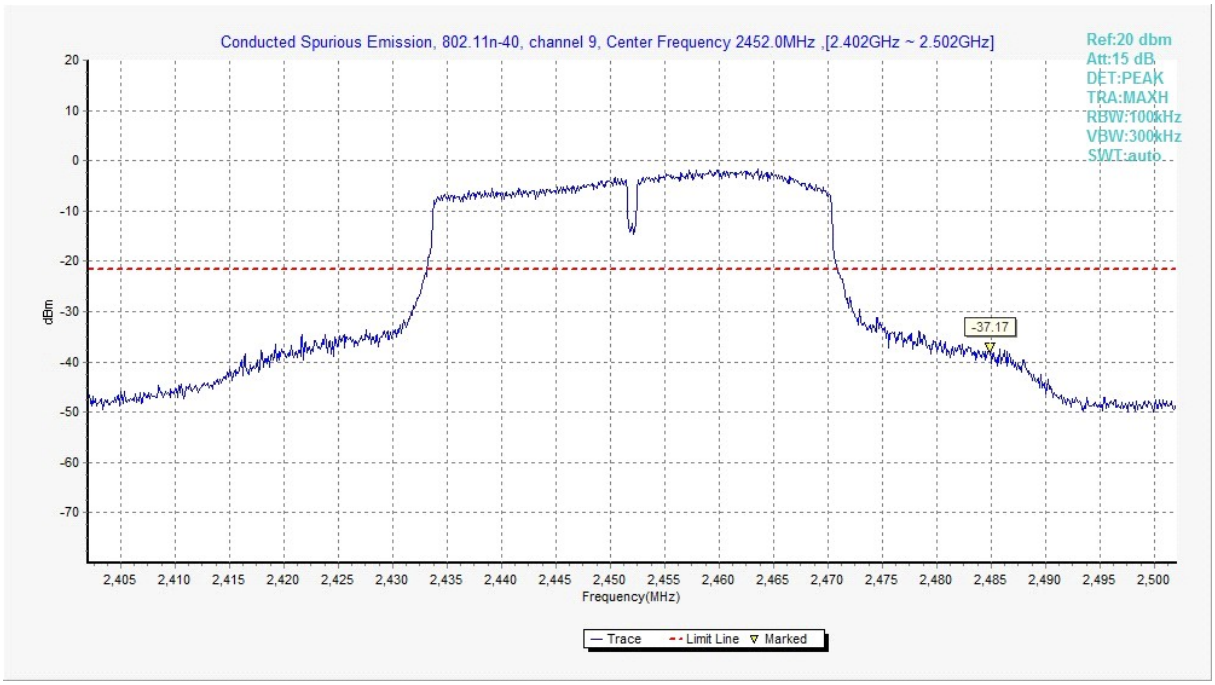

Fig.A.6.1.89 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, Center Frequency)

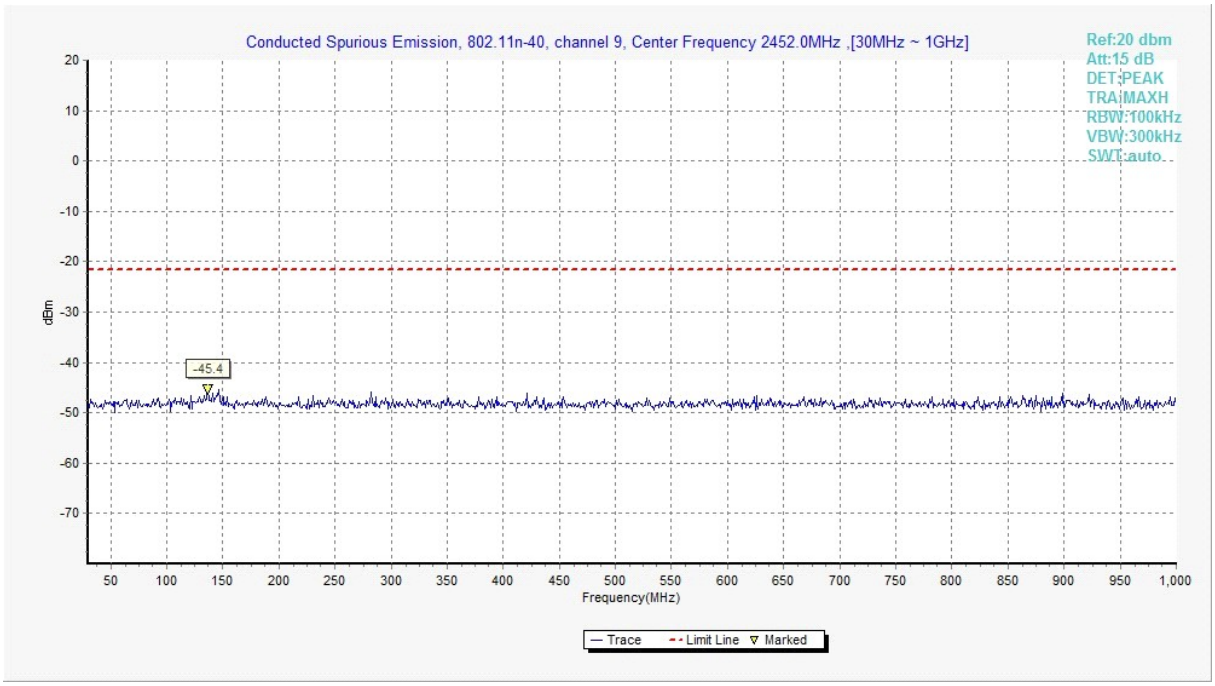

Fig.A.6.1.90 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 30 MHz-1 GHz)

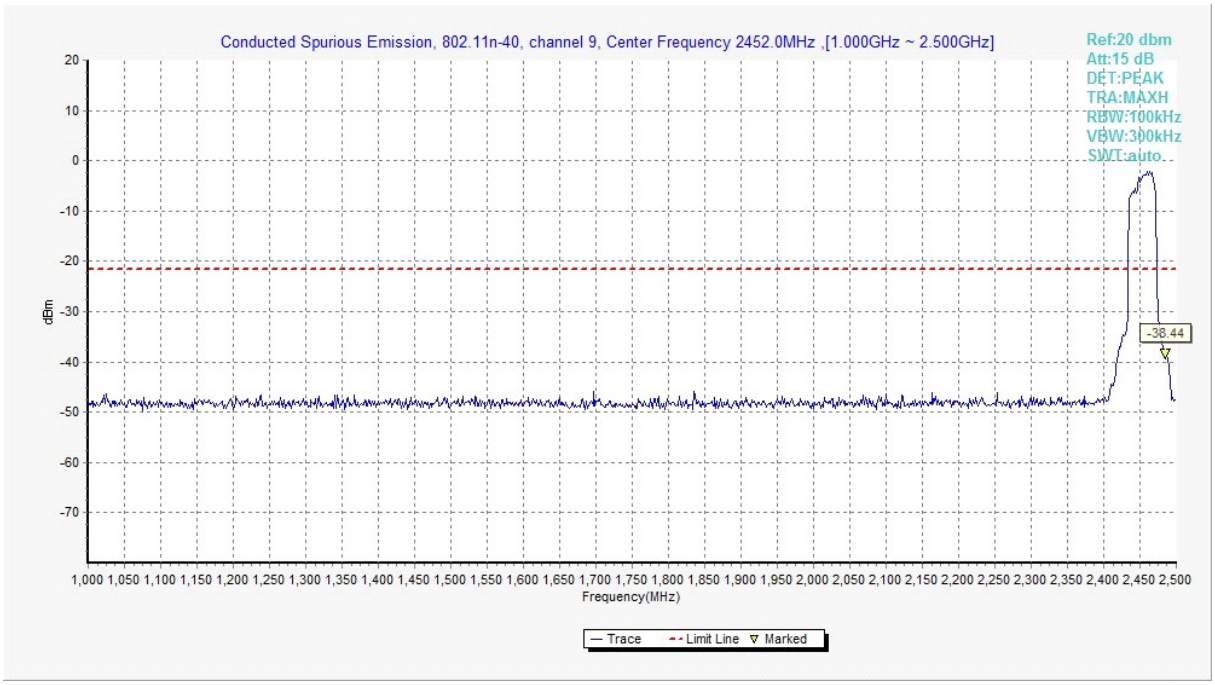

Fig.A.6.1.91 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 1 GHz-2.5 GHz)

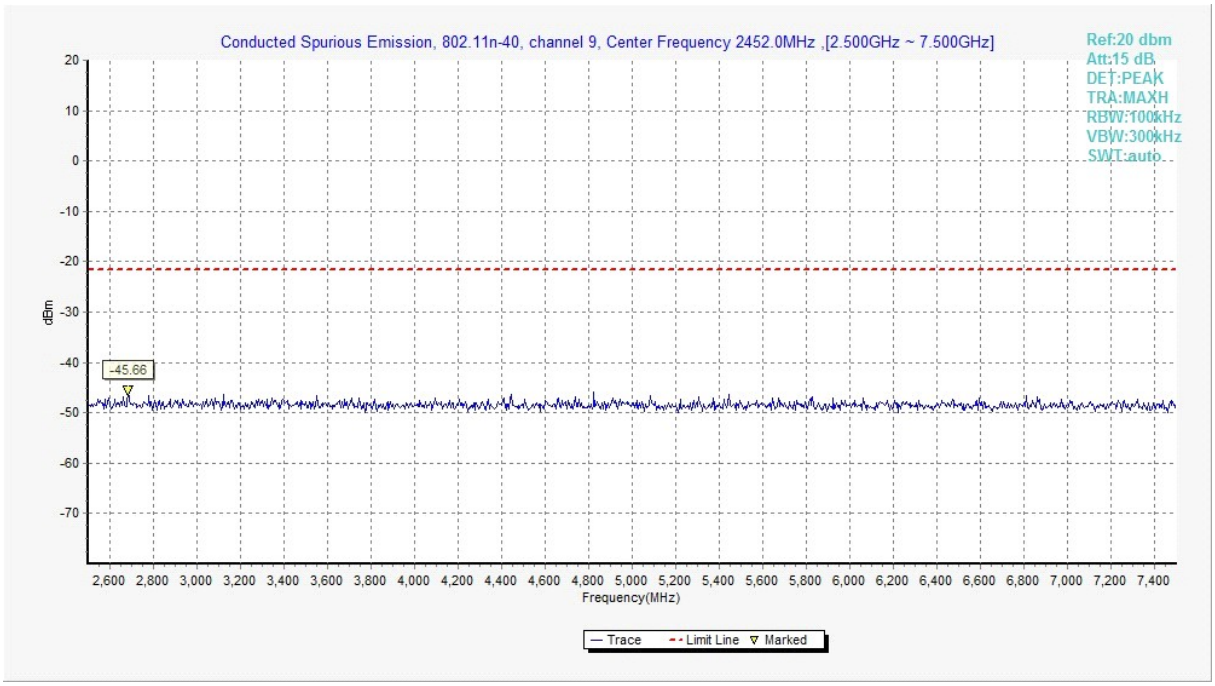

Fig.A.6.1.92 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 2.5 GHz-7.5 GHz)

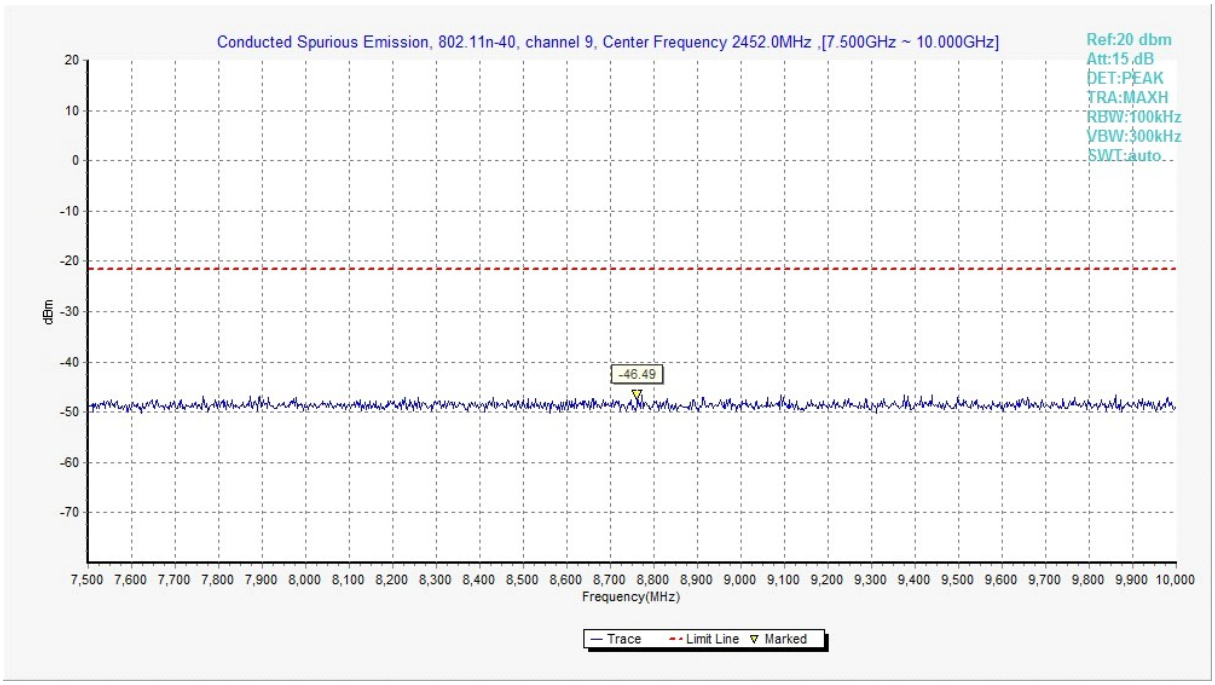

Fig.A.6.1.93 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 7.5 GHz-10 GHz)

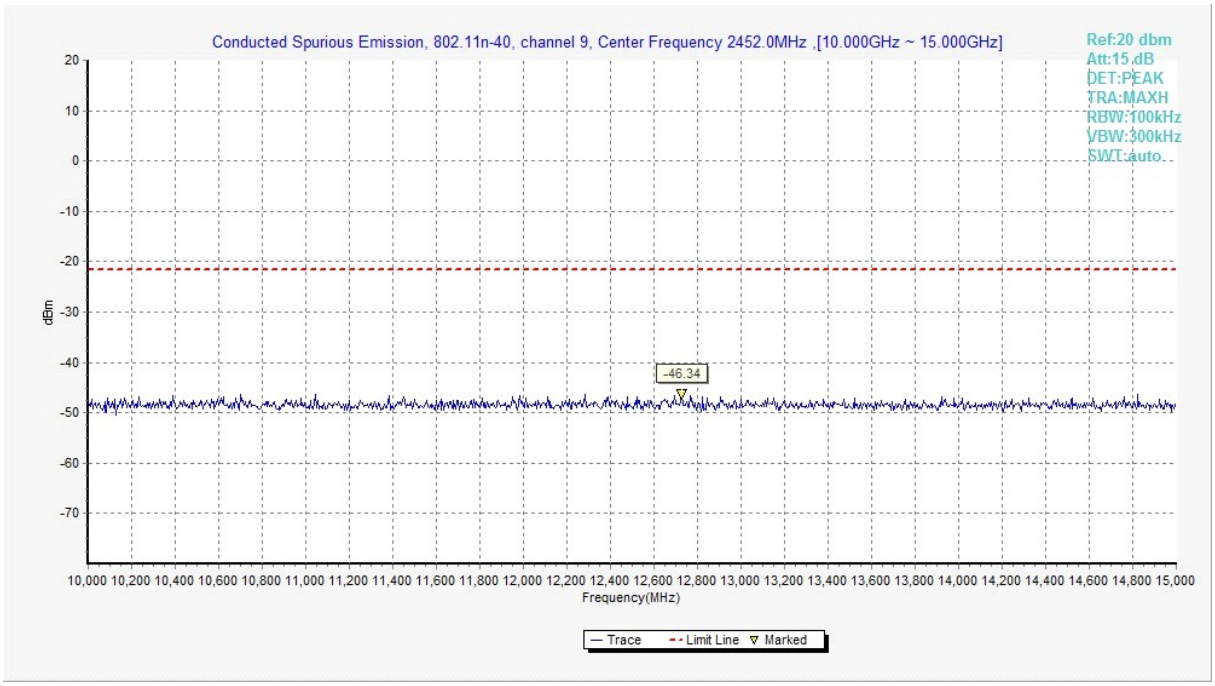

Fig.A.6.1.94 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 10 GHz-15 GHz)

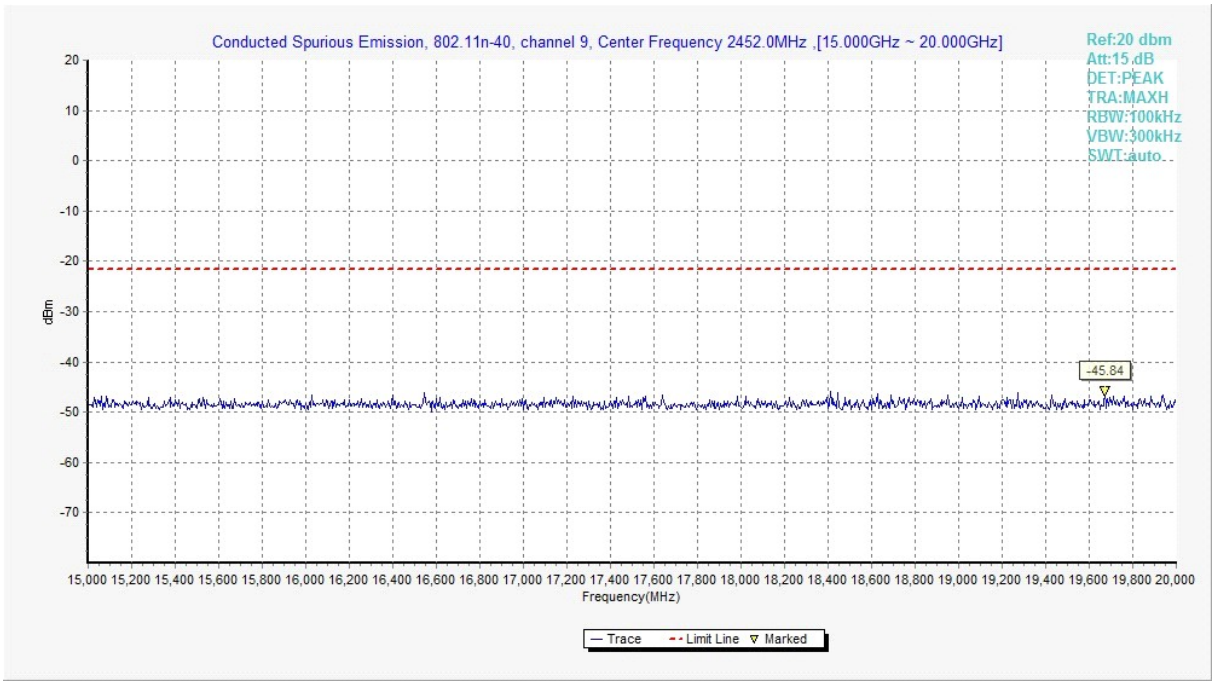

Fig.A.6.1.95 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 15 GHz-20 GHz)

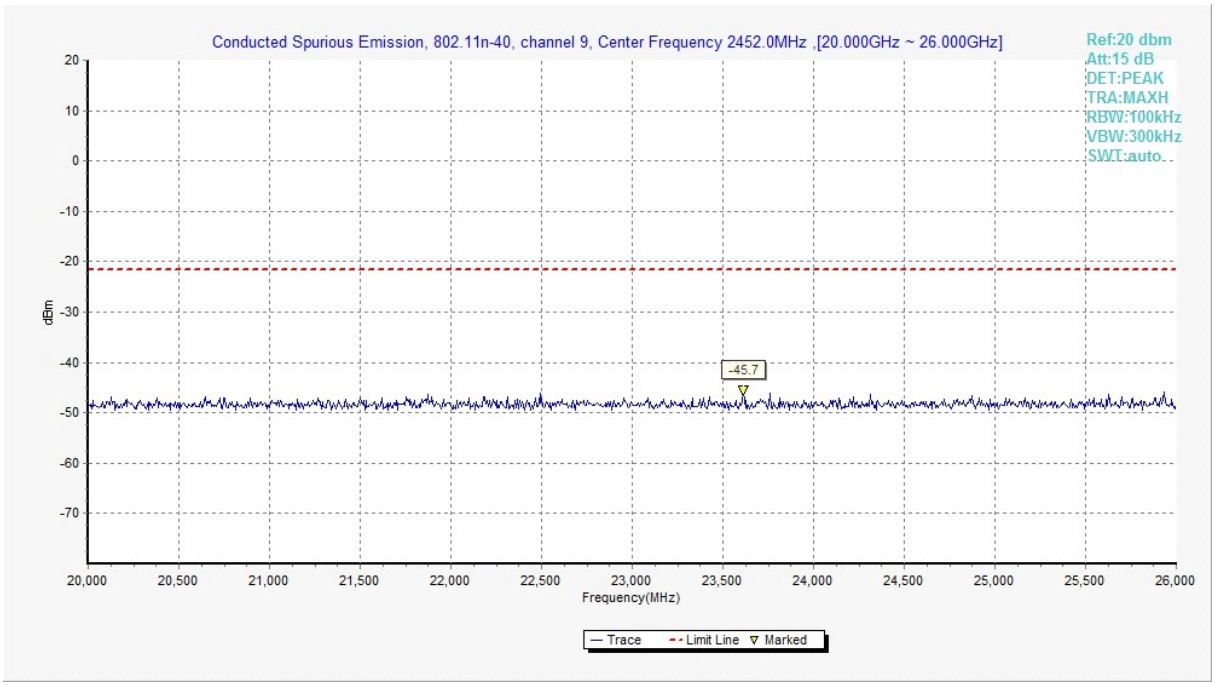

Fig.A.6.1.96 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 20 GHz-26 GHz)

A.6.2 Transmitter Spurious Emission - Radiated

Method of Measurement: See ANSI C63.10-2013-clause 6.4 &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: UT17a

Measurement results for Set.1:

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.31GHz~2.43GHz---L	Fig.A.6.2.1	**P**
	11	2.45GHz~2.50GHz---H	Fig.A.6.2.2	**P**

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.31GHz~2.43GHz---L	Fig.A.6.2.3	**P**
	11	2.45GHz~2.50GHz---H	Fig.A.6.2.4	**P**

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.31GHz~2.43GHz---L	Fig.A.6.2.5	**P**
	11	2.45GHz~2.50GHz---H	Fig.A.6.2.6	**P**

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	3	2.31GHz~2.43GHz---L	Fig.A.6.2.7	**P**
	9	2.45GHz~2.50GHz---H	Fig.A.6.2.8	**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

Peak

802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17771.500	53.89	-25.50	46.70	32.69	74	20.11	V
13691.500	50.81	-29.50	40.40	39.91	74	23.19	V
12838.500	49.23	-30.70	39.10	40.73	74	24.77	H
9133.500	47.33	-33.80	38.10	43.13	74	26.67	H
7993.500	46.31	-34.80	37.10	44.01	74	27.69	H
2354.500	57.48	-20.10	28.00	49.48	74	16.52	V

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.000	54.23	-25.50	46.70	33.03	74	19.77	H
14217.500	51.79	-29.00	42.00	38.79	74	22.21	H
12762.000	49.84	-30.50	39.10	41.24	74	24.16	H
9191.500	47.04	-33.80	38.10	42.84	74	26.96	V
7890.000	46.03	-34.90	37.10	43.83	74	27.97	V
4642.500	41.13	-37.50	32.80	45.83	74	32.87	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17974.500	53.72	-25.50	46.70	32.52	74	20.28	H
13791.500	50.57	-29.10	40.90	38.77	74	23.43	V
12877.500	49.41	-30.70	39.10	40.91	74	24.59	V
9863.500	46.73	-33.50	38.10	42.13	74	27.27	H
7384.500	46.43	-35.10	36.60	44.93	74	27.57	V
2487.000	57.19	-20.00	28.30	48.89	74	16.81	V

802.11g

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17398.000	54.64	-26.90	45.20	36.24	74	19.36	V
14186.500	51.95	-29.00	42.00	38.95	74	22.05	V
12840.500	50.67	-30.70	39.10	42.17	74	23.33	V
8535.500	46.84	-34.10	37.90	43.14	74	27.16	V
7979.500	46.28	-34.80	37.10	43.98	74	27.72	V
2388.700	61.90	-20.00	28.10	53.90	74	12.10	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17838.000	54.16	-25.50	46.70	32.96	74	19.84	V
13794.500	51.21	-29.10	40.90	39.41	74	22.79	V
12894.000	49.19	-30.70	39.10	40.69	74	24.81	H
9369.000	46.72	-33.90	38.00	42.62	74	27.28	V
7714.000	45.59	-34.80	37.00	43.49	74	28.41	H
4742.500	41.40	-37.30	33.00	45.70	74	32.60	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.500	55.18	-25.50	46.70	33.98	74	18.82	H
14121.000	51.26	-29.00	42.00	38.26	74	22.74	H
12655.000	49.59	-30.50	39.10	40.99	74	24.41	H
9763.500	46.81	-33.50	38.00	42.31	74	27.19	H
7894.000	46.39	-34.90	37.10	44.19	74	27.61	H
2485.000	61.26	-20.00	28.30	52.96	74	12.74	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17884.5	54.01	-25.5	46.7	32.81	74	19.99	H
13725	51.19	-29.1	40.9	39.39	74	22.81	V
11357	48.96	-32.4	38.8	42.56	74	25.04	V
9042.5	46.86	-33.8	38.1	42.46	74	27.14	H
7412	46.38	-35.2	36.7	44.78	74	27.62	V
2389.6	63.34	-20	28.1	55.34	74	10.66	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17591	54.64	-25.7	46	34.44	74	19.36	V
14216	51.32	-29	42	38.32	74	22.68	V
11399.5	48.88	-32.4	38.8	42.48	74	25.12	H
9738.5	47.39	-33	38	42.39	74	26.61	H
7210	45.9	-35.5	36.4	45	74	28.1	V
4995.5	41.39	-36.6	33.4	44.59	74	32.61	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17968	53.84	-25.5	46.7	32.64	74	20.16	V
14213.5	50.76	-29	42	37.76	74	23.24	V
12830.5	49.88	-30.7	39.1	41.38	74	24.12	H
9388	47	-32.9	37.9	42	74	27	H
7412	46.33	-35.2	36.7	44.73	74	27.67	V
2485	62.5	-20	28.3	54.2	74	11.5	H

802.11n-HT40

Ch3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17981.500	53.83	-25.50	46.70	32.63	74	20.17	H
13647.000	51.19	-29.50	40.40	40.29	74	22.81	V
12850.500	49.56	-30.70	39.10	41.06	74	24.44	H
9142.000	47.20	-33.80	38.10	43.00	74	26.80	V
7888.000	46.33	-34.90	37.10	44.13	74	27.67	V
2389.900	69.30	-20.00	28.10	61.30	74	4.70	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17960.000	54.24	-25.50	46.70	33.04	74	19.76	V
14348.500	50.63	-28.40	42.30	36.73	74	23.37	V
12992.500	49.00	-30.50	39.20	40.30	74	25.00	V
7708.500	46.85	-34.80	37.00	44.75	74	27.15	V
9075.000	46.81	-33.80	38.10	42.41	74	27.19	V
4902.000	41.93	-37.20	33.20	45.93	74	32.07	V

Ch9

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17988.000	54.49	-25.50	46.70	33.29	74	19.51	V
13614.000	51.15	-29.50	40.40	40.25	74	22.85	H
12767.500	48.90	-30.50	39.10	40.30	74	25.10	V
8856.500	47.20	-33.50	38.10	42.60	74	26.80	H
7994.000	46.77	-34.80	37.10	44.47	74	27.23	H
2485.200	72.23	-20.00	28.30	63.93	74	1.77	H

Average

802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17969.500	42.64	-25.50	46.70	21.44	54	11.36	V
14187.000	39.14	-29.00	42.00	26.14	54	14.86	V
7235.000	37.87	-35.50	36.40	36.97	54	16.13	V
12902.000	37.58	-30.50	39.20	28.88	54	16.42	H
9038.500	35.51	-33.80	38.10	31.11	54	18.49	V
2386.900	43.37	-20.00	28.10	35.37	54	10.63	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.000	43.02	-25.50	46.70	21.82	54	10.98	H
14200.000	39.41	-29.00	42.00	26.41	54	14.59	H
12863.500	37.81	-30.70	39.10	29.31	54	16.19	V
7312.000	35.98	-35.00	36.50	34.38	54	18.02	V
9787.500	35.60	-33.50	38.00	31.10	54	18.40	V
4874.000	33.19	-37.20	33.20	37.19	54	20.81	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17965.000	42.78	-25.50	46.70	21.58	54	11.22	H
14187.500	39.50	-29.00	42.00	26.50	54	14.50	V
7387.000	39.14	-35.10	36.60	37.64	54	14.86	V
12833.500	37.70	-30.70	39.10	29.20	54	16.30	H
9218.500	35.29	-33.70	38.00	30.99	54	18.71	H
2486.700	43.84	-20.00	28.30	35.54	54	10.16	H

802.11g

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17971.500	42.80	-25.50	46.70	21.60	54	11.20	V
14210.500	39.41	-29.00	42.00	26.41	54	14.59	V
12835.500	37.75	-30.70	39.10	29.25	54	16.25	H
9032.000	35.28	-33.80	38.10	30.88	54	18.72	H
7985.500	34.42	-34.80	37.10	32.12	54	19.58	V
2389.800	45.46	-20.00	28.10	37.46	54	8.54	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17982.500	42.64	-25.50	46.70	21.44	54	11.36	V
13727.500	39.28	-29.10	40.90	27.48	54	14.72	V
12833.000	37.85	-30.70	39.10	29.35	54	16.15	V
9091.500	35.38	-33.80	38.10	30.98	54	18.62	V
7903.000	34.46	-34.90	37.10	32.26	54	19.54	H
4868.000	29.59	-37.20	33.20	33.59	54	24.41	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.500	42.75	-25.50	46.70	21.55	54	11.25	H
14193.000	39.51	-29.00	42.00	26.51	54	14.49	V
12909.000	37.76	-30.50	39.20	29.06	54	16.24	V
9211.500	35.42	-33.70	38.00	31.12	54	18.58	V
7982.000	34.46	-34.80	37.10	32.16	54	19.54	V
2485.000	46.19	-20.00	28.30	37.89	54	7.81	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17984.5	42.6	-25.5	46.7	21.4	54	11.4	H
14200	39.55	-29	42	26.55	54	14.45	V
12753	37.64	-30.5	39.1	29.04	54	16.36	V
9130	35.51	-33.8	38.1	31.31	54	18.49	H
7982.5	34.34	-34.8	37.1	32.04	54	19.66	H
2389.9	45.93	-20	28.1	37.93	54	8.07	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17968.5	42.58	-25.5	46.7	21.38	54	11.42	H
13684.5	39.22	-29.5	40.4	28.32	54	14.78	H
12889	37.62	-30.7	39.1	29.12	54	16.38	V
9134.5	35.33	-33.8	38.1	31.13	54	18.67	H
7985.5	34.38	-34.8	37.1	32.08	54	19.62	H
4860	29.6	-37.5	33.1	33.9	54	24.4	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17963	42.62	-25.5	46.7	21.42	54	11.38	V
14186	39.42	-29	42	26.42	54	14.58	V
12852	37.62	-30.7	39.1	29.12	54	16.38	V
9781.5	35.58	-33.5	38	31.08	54	18.42	H
7991	34.72	-34.8	37.1	32.42	54	19.28	H
2485	46.43	-20	28.3	38.13	54	7.57	H

802.11n-HT40

Ch3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.000	42.72	-25.50	46.70	21.52	54	11.28	H
14190.500	39.43	-29.00	42.00	26.43	54	14.57	V
12933.000	37.67	-30.50	39.20	28.97	54	16.33	H
9131.000	35.37	-33.80	38.10	31.17	54	18.63	H
7983.000	34.36	-34.80	37.10	32.06	54	19.64	H
2389.900	49.33	-20.00	28.10	41.33	54	4.67	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17976.500	42.54	-25.50	46.70	21.34	54	11.46	V
14184.500	39.29	-29.00	42.00	26.29	54	14.71	V
12820.000	37.75	-30.70	39.10	29.25	54	16.25	H
9697.000	35.35	-33.00	38.00	30.35	54	18.65	H
7797.500	34.45	-35.10	37.00	32.55	54	19.55	H
4923.500	29.51	-37.10	33.30	33.31	54	24.49	H

Ch9

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17603.500	42.71	-25.70	46.00	22.51	54	11.29	V
14186.000	39.44	-29.00	42.00	26.44	54	14.56	V
12857.500	37.64	-30.70	39.10	29.14	54	16.36	H
9141.500	35.63	-33.80	38.10	31.43	54	18.37	H
7982.000	34.35	-34.80	37.10	32.05	54	19.65	V
2485.000	50.13	-20.00	28.30	41.83	54	3.87	H

Test graphs as below:

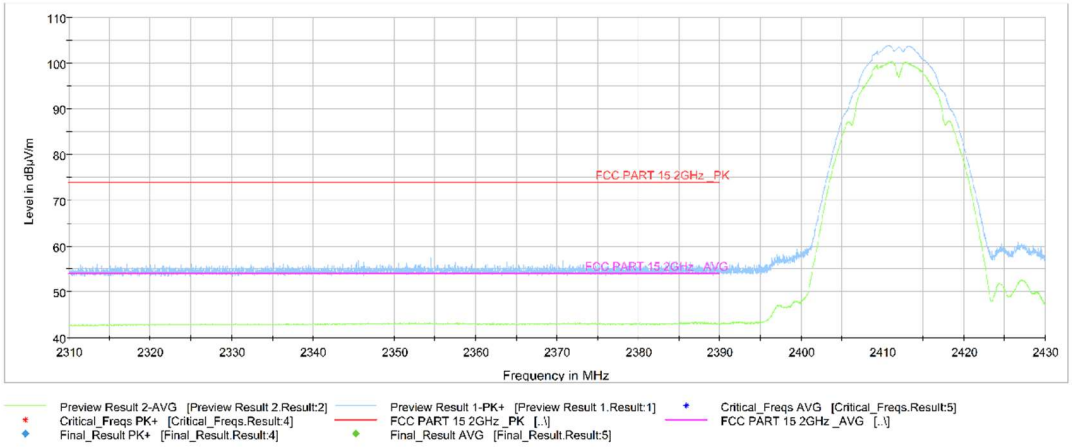

Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.43GHz

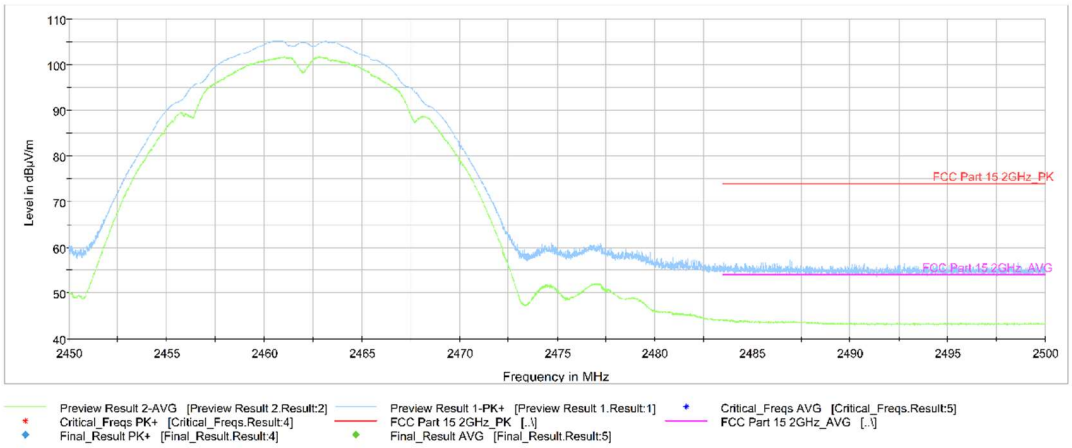

Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

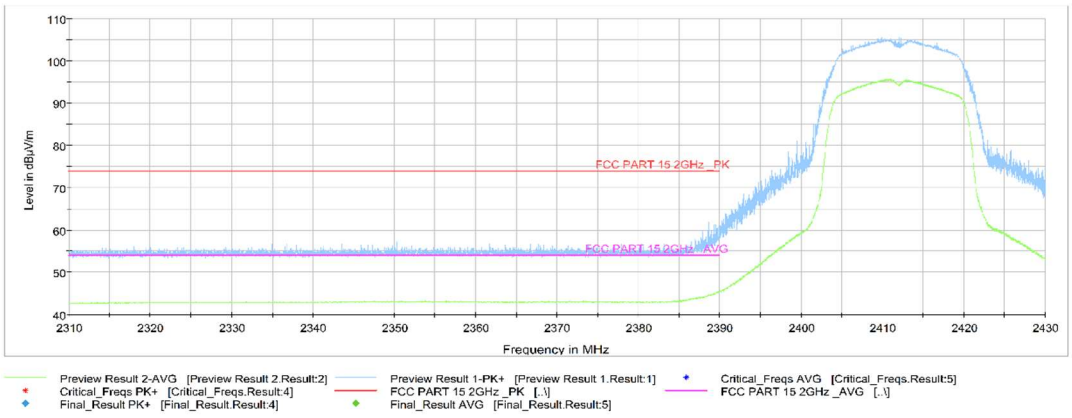

Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.43GHz

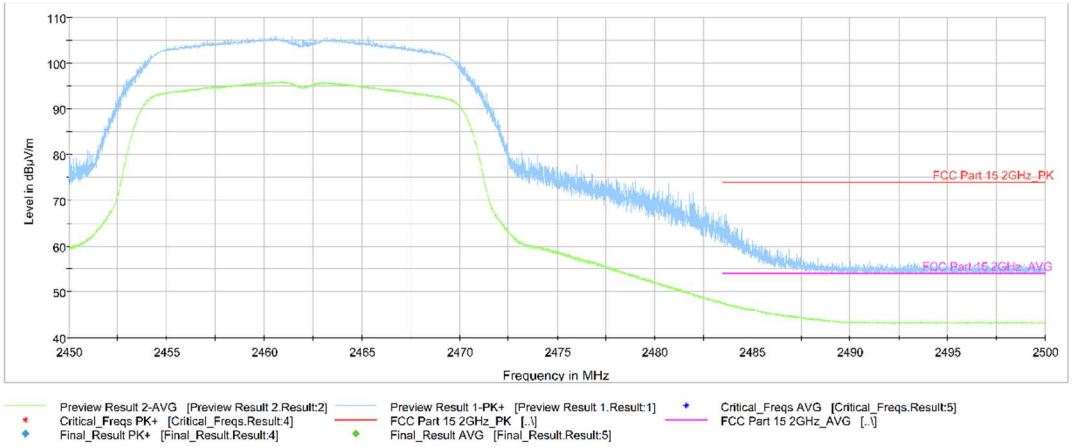

Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

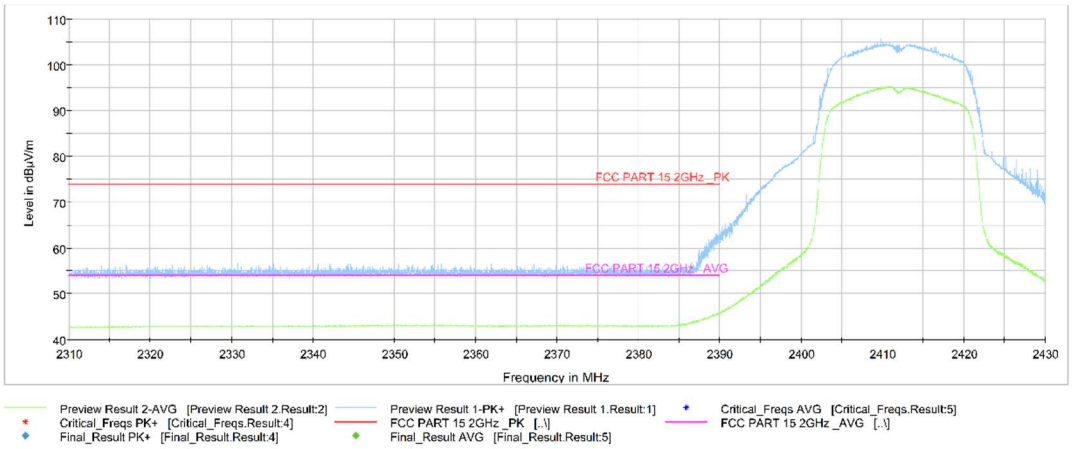

Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.31 GHz - 2.43GHz

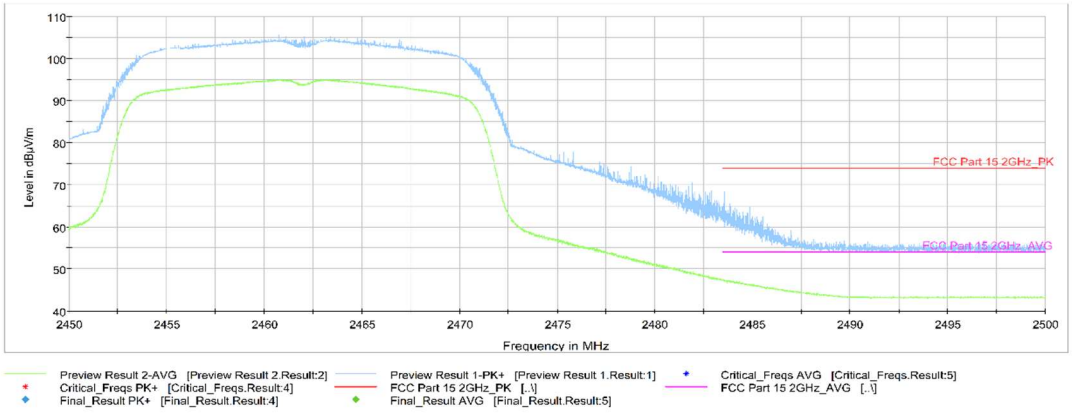

Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

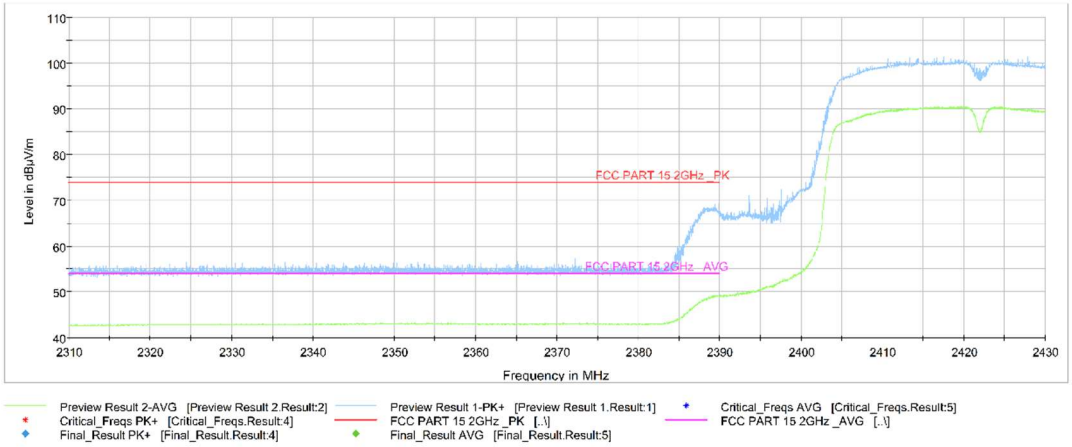

Fig.A.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.31 GHz - 2.43GHz

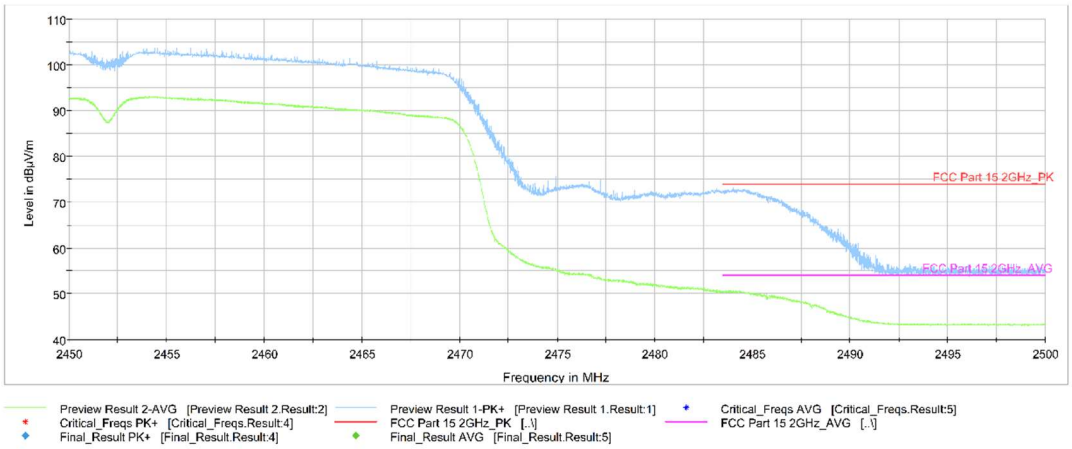

Fig.A.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

A.7. AC Power-line Conducted Emission

Method of Measurement: See ANSI C63.10-2013-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

Measurement results for Set.1:

Result for Traffic:

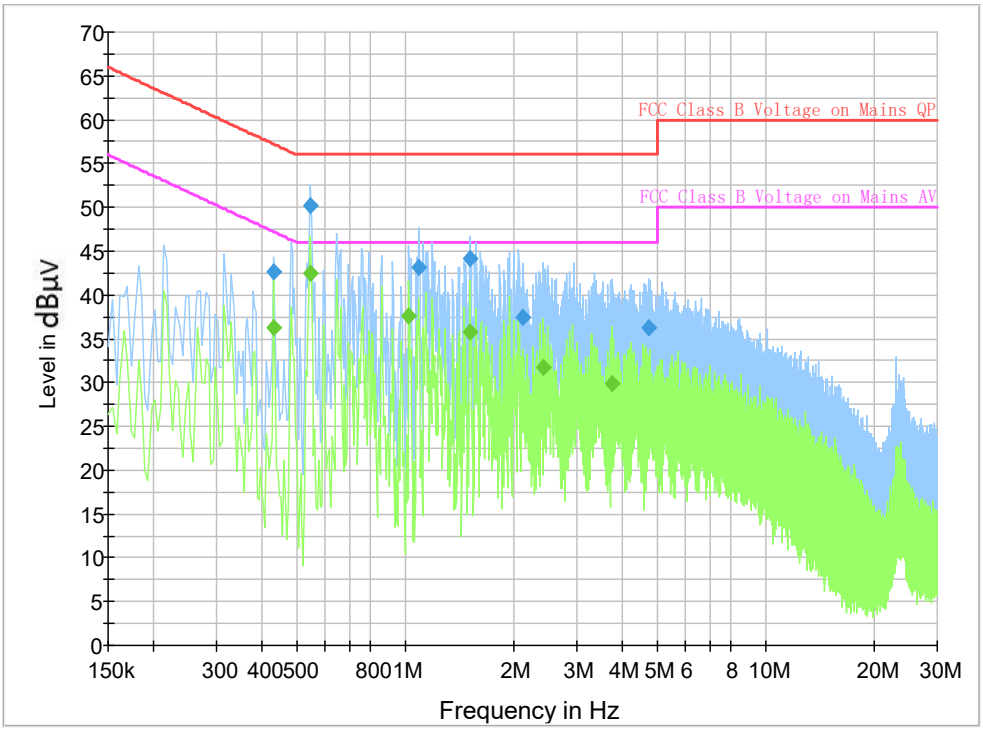

Fig.A.7.1 AC Powerline Conducted Emission-802.11b

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

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.430000	42.6	2000.0	9.000	On	L1	19.9	14.6	57.3
0.546000	50.1	2000.0	9.000	On	L1	19.9	5.9	56.0
1.094000	43.1	2000.0	9.000	On	L1	19.5	12.9	56.0
1.510000	44.2	2000.0	9.000	On	L1	19.5	11.8	56.0
2.130000	37.4	2000.0	9.000	On	L1	19.5	18.6	56.0
4.750000	36.3	2000.0	9.000	On	L1	19.6	19.7	56.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.430000	36.2	2000.0	9.000	On	L1	19.9	11.0	47.3
0.546000	42.5	2000.0	9.000	On	L1	19.9	3.5	46.0
1.026000	37.6	2000.0	9.000	On	L1	19.6	8.4	46.0
1.510000	35.7	2000.0	9.000	On	L1	19.5	10.3	46.0
2.422000	31.7	2000.0	9.000	On	L1	19.5	14.3	46.0
3.770000	29.9	2000.0	9.000	On	L1	19.5	16.1	46.0

Measurement results for Set.1:

Result for Idle:

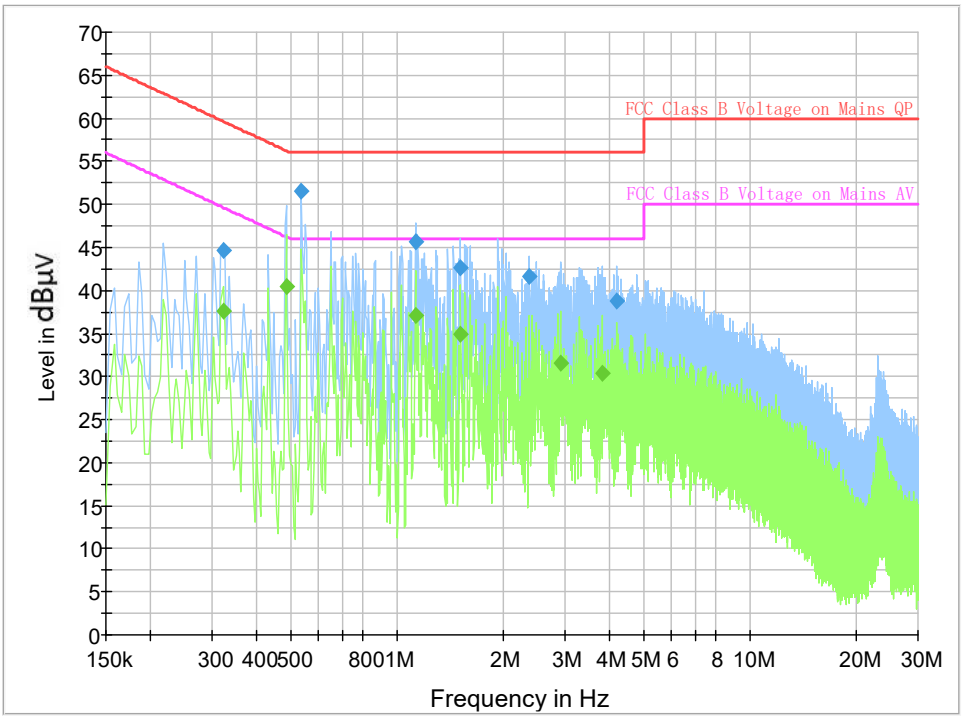

Fig.A.7.2 AC Powerline Conducted Emission-Idle

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

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.322000	44.6	2000.0	9.000	On	L1	19.9	15.0	59.7	
0.538000	51.5	2000.0	9.000	On	L1	19.9	4.5	56.0	
1.130000	45.6	2000.0	9.000	On	L1	19.5	10.4	56.0	
1.514000	42.7	2000.0	9.000	On	L1	19.5	13.3	56.0	
2.366000	41.6	2000.0	9.000	On	L1	19.5	14.4	56.0	
4.198000	38.8	2000.0	9.000	On	L1	19.6	17.2	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.322000	37.5	2000.0	9.000	On	L1	19.9	12.1	49.7	
0.486000	40.4	2000.0	9.000	On	L1	19.9	5.8	46.2	
1.130000	37.1	2000.0	9.000	On	L1	19.5	8.9	46.0	
1.514000	34.9	2000.0	9.000	On	L1	19.5	11.1	46.0	
2.906000	31.6	2000.0	9.000	On	L1	19.5	14.4	46.0	
3.818000	30.4	2000.0	9.000	On	L1	19.5	15.6	46.0	

ANNEX B: EUT parameters

Disclaimer: The worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate

United States Department of Commerce
National Institute of Standards and Technology

NVLAP® ilac-MRA

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT
Beijing
China

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Electromagnetic Compatibility & Telecommunications

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2021-09-29 through 2022-09-30
Effective Dates

For the National Voluntary Laboratory Accreditation Program

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