

Fig.A.6.1.27 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 1 GHz-2.5 GHz)

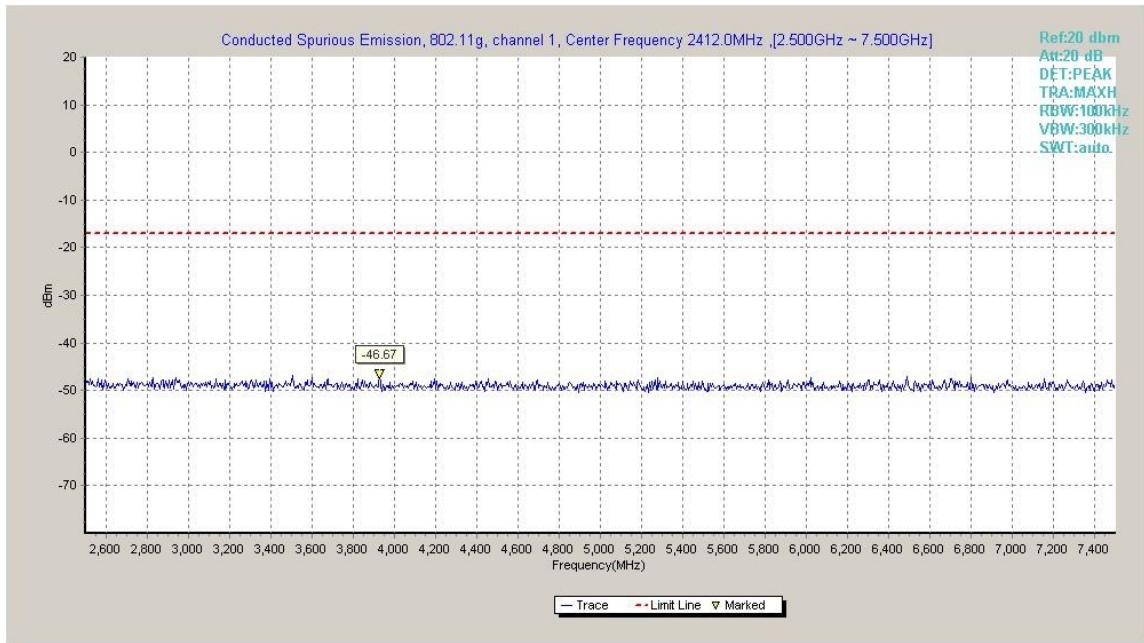


Fig.A.6.1.28 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 2.5 GHz-7.5 GHz)

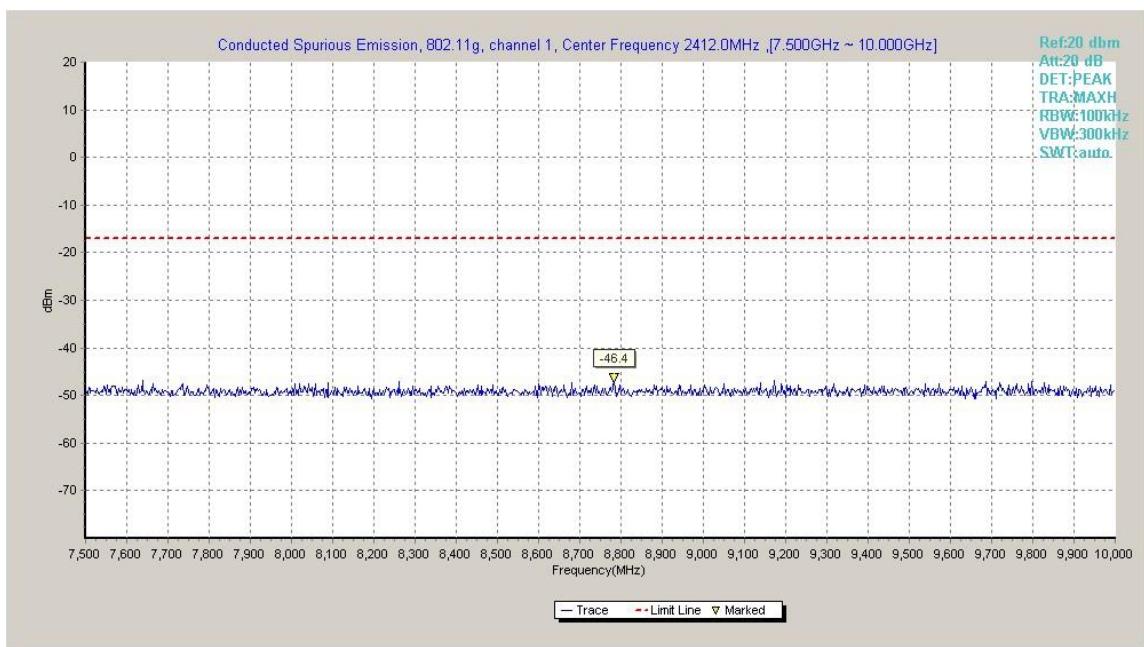


Fig.A.6.1.29 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 7.5 GHz-10 GHz)

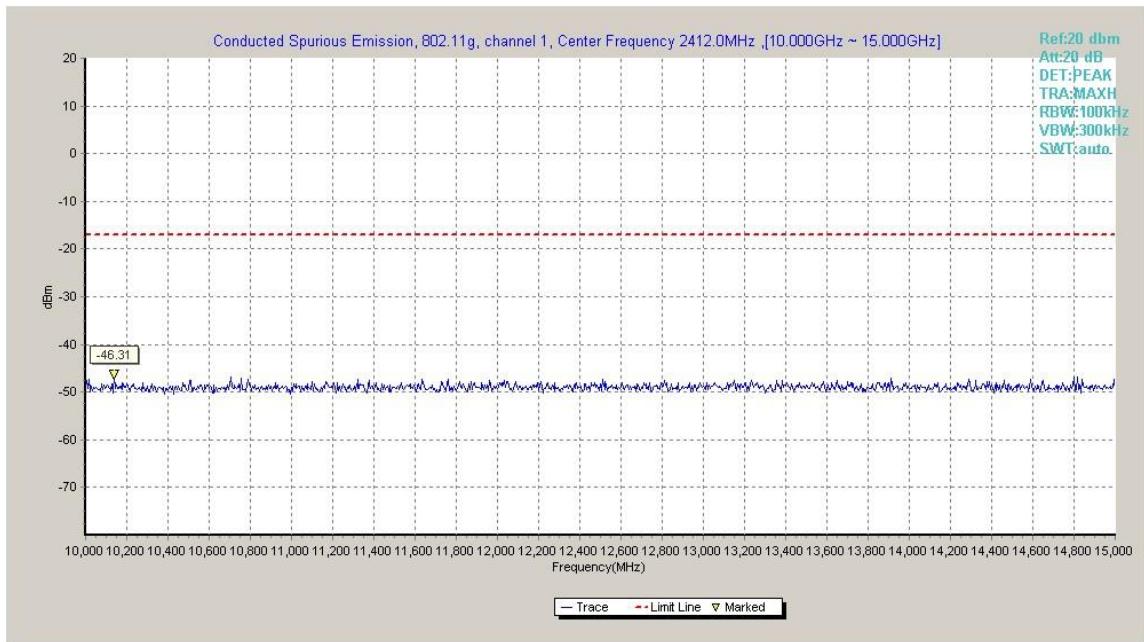


Fig.A.6.1.30 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 10 GHz-15 GHz)

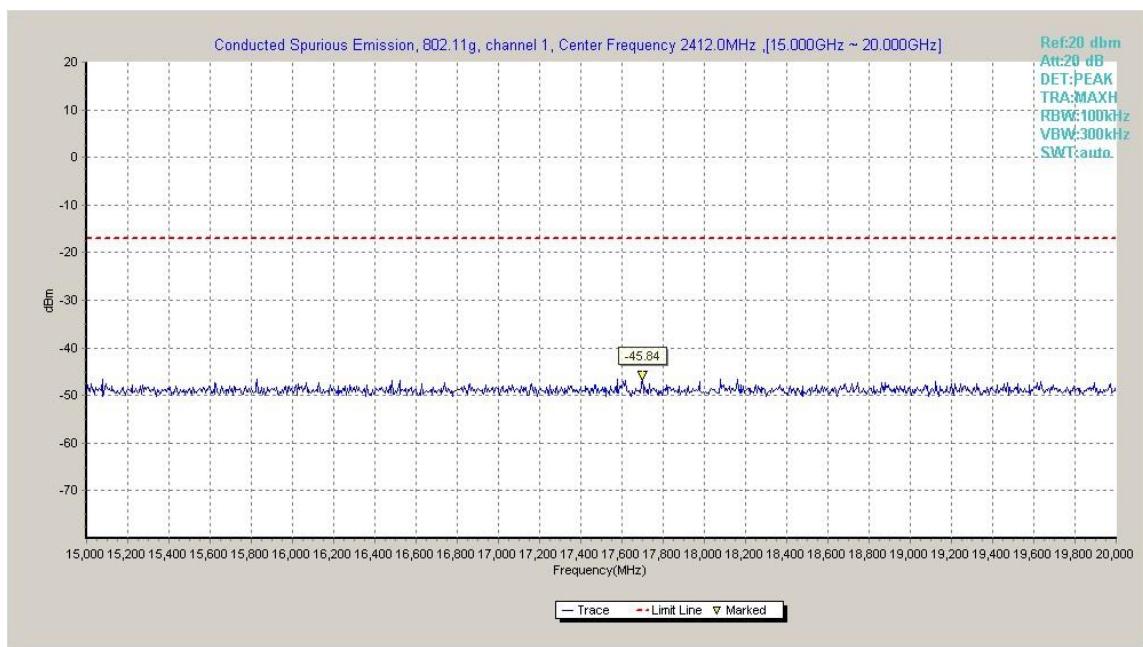


Fig.A.6.1.31 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 15 GHz-20 GHz)

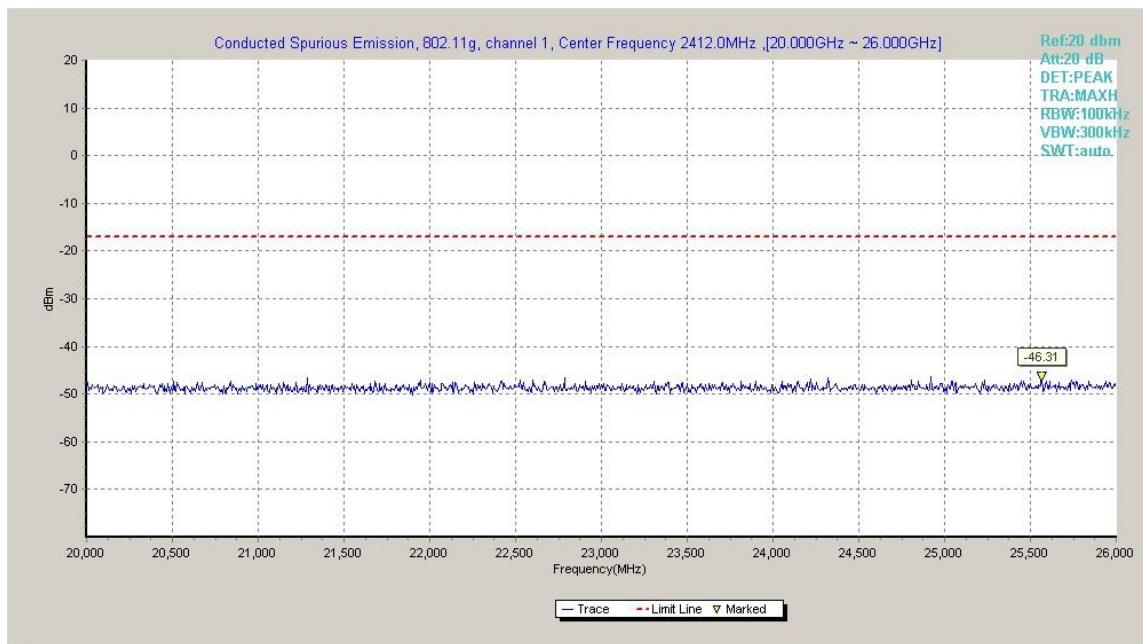


Fig.A.6.1.32 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 20 GHz-26 GHz)

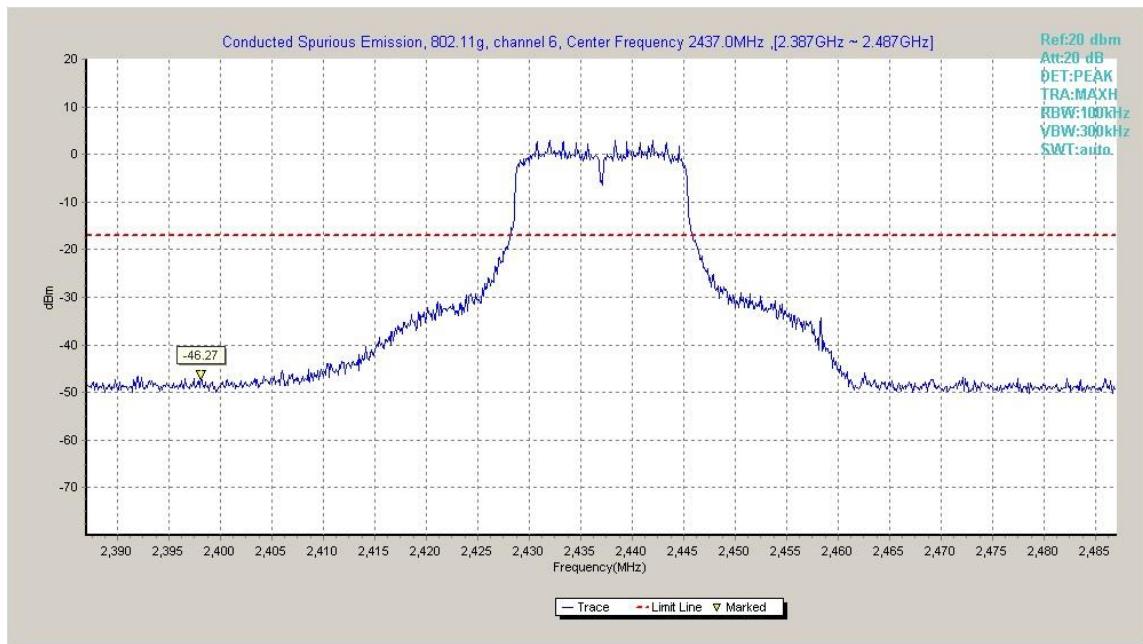


Fig.A.6.1.33 Transmitter Spurious Emission - Conducted (802.11g, Ch6, Center Frequency)

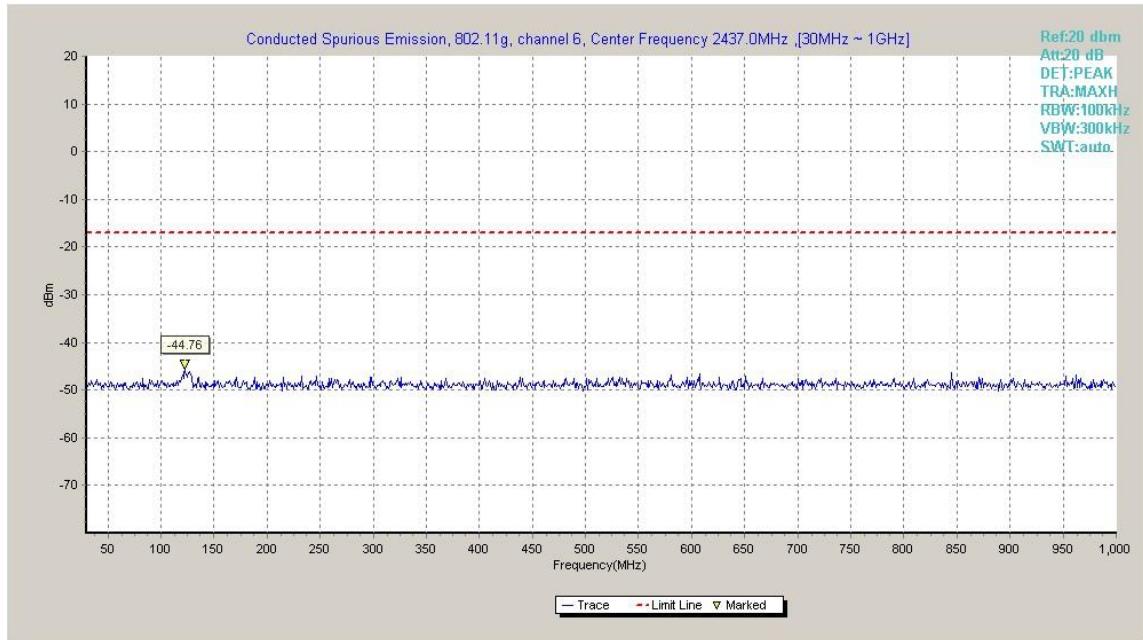


Fig.A.6.1.34 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 30 MHz-1 GHz)

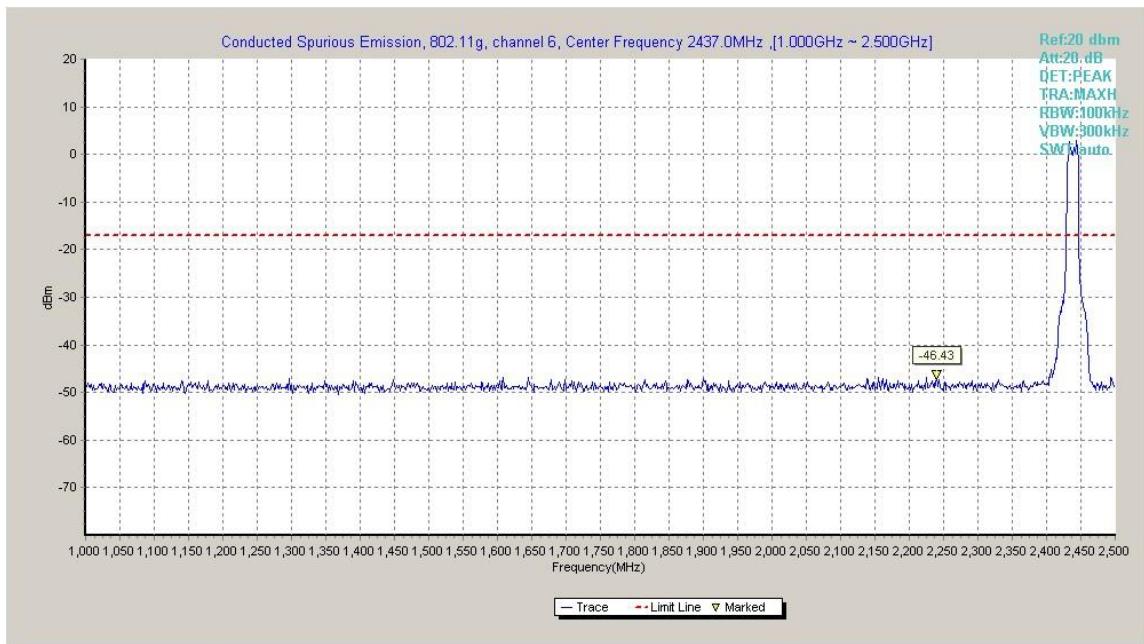


Fig.A.6.1.35 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 1 GHz-2.5 GHz)

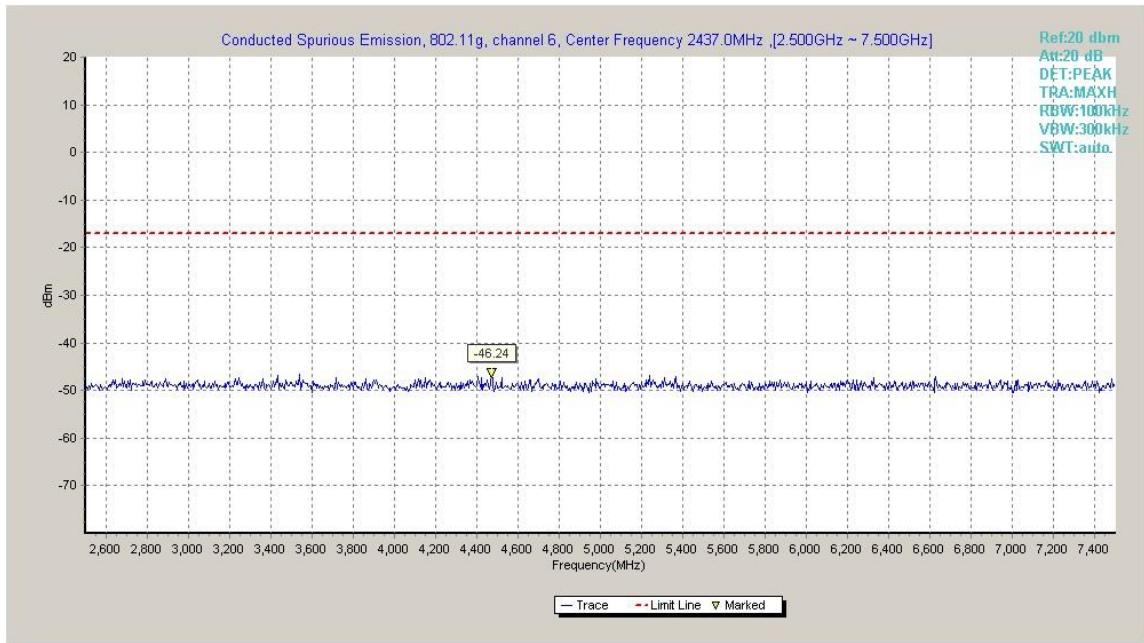


Fig.A.6.1.36 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 2.5 GHz-7.5 GHz)

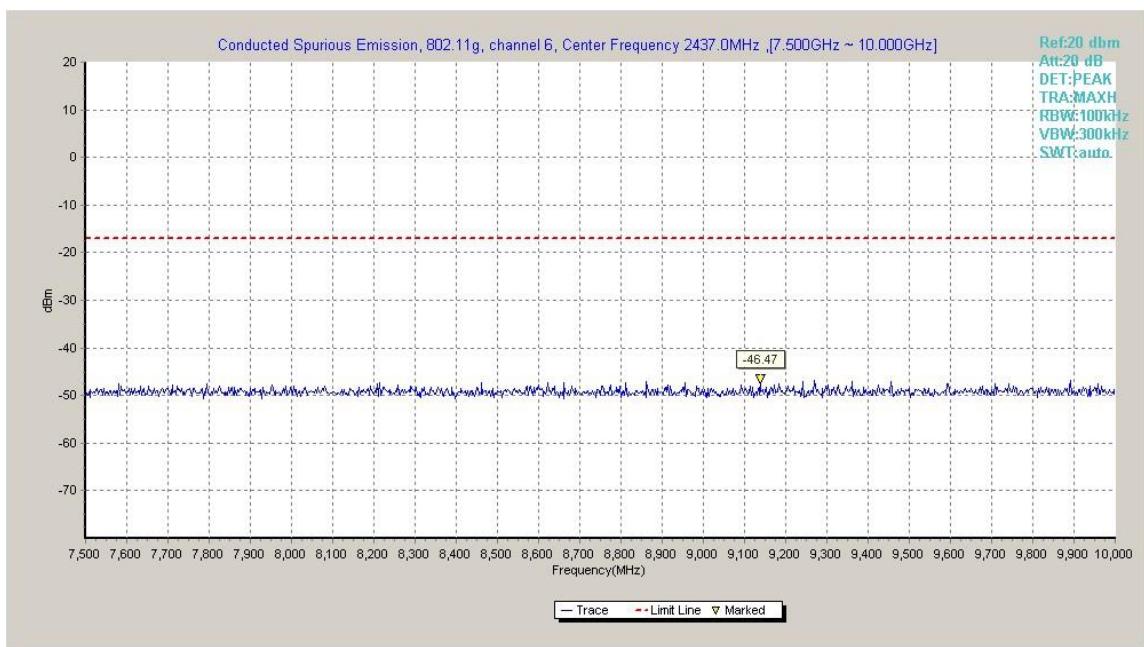


Fig.A.6.1.37 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 7.5 GHz-10 GHz)

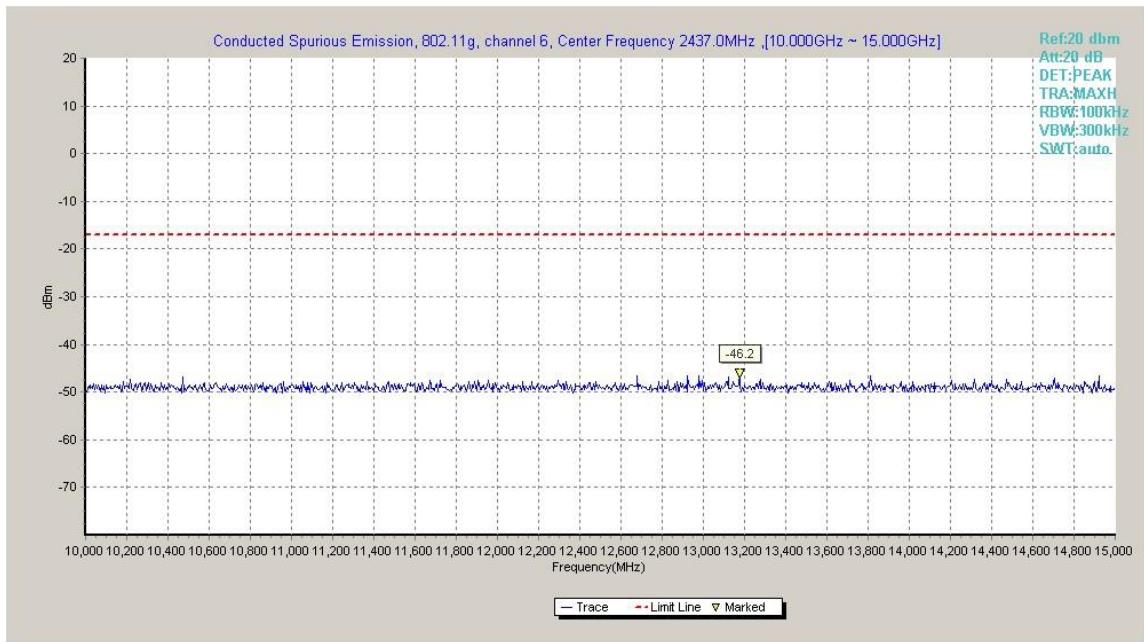


Fig.A.6.1.38 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 10 GHz-15 GHz)

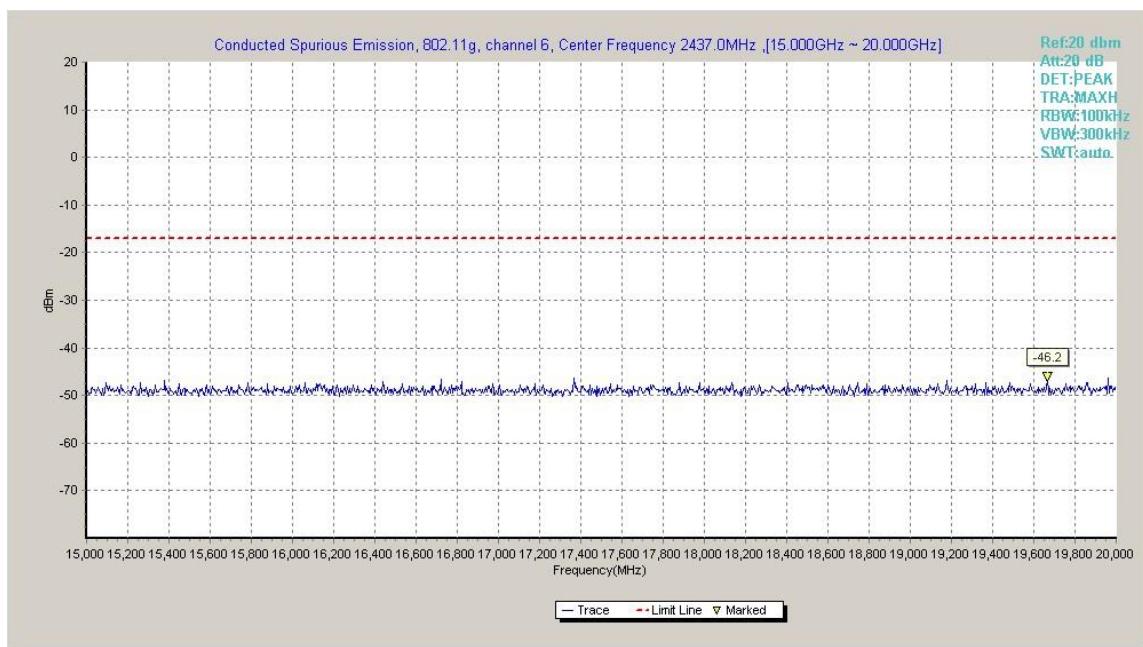


Fig.A.6.1.39 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 15 GHz-20 GHz)

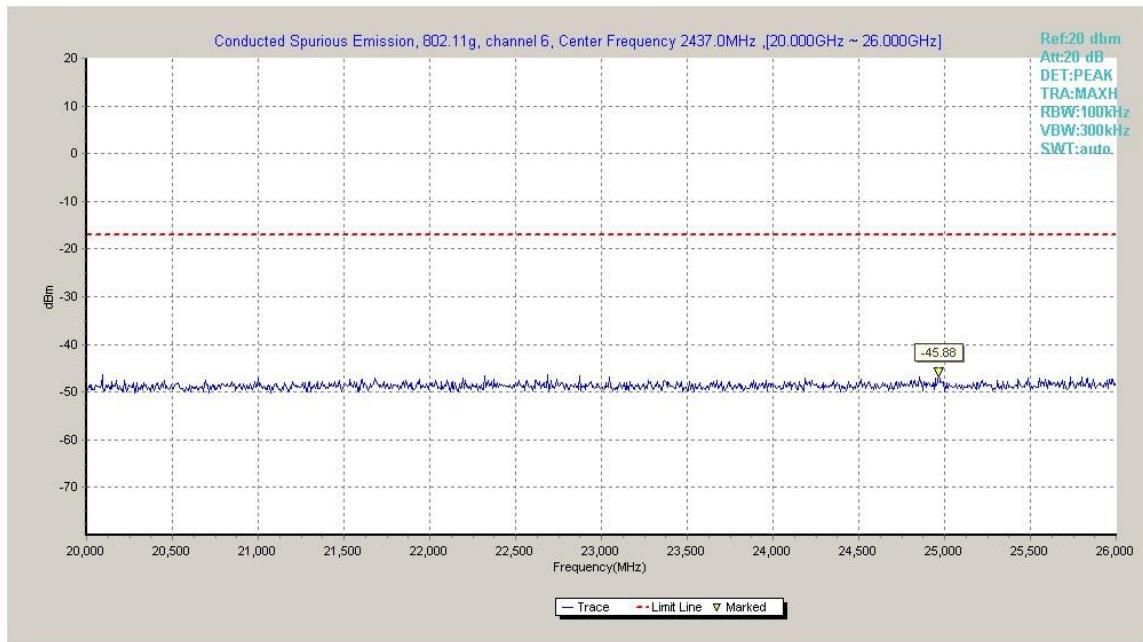


Fig.A.6.1.40 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 20 GHz-26 GHz)

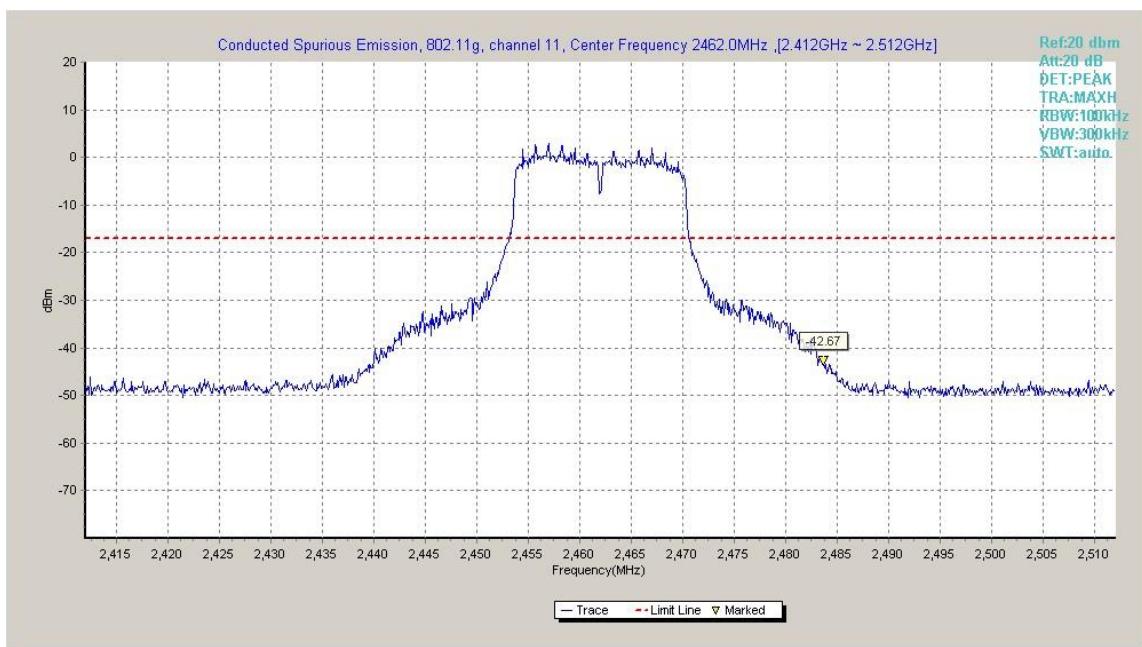


Fig.A.6.1.41 Transmitter Spurious Emission - Conducted (802.11g, Ch11, Center Frequency)

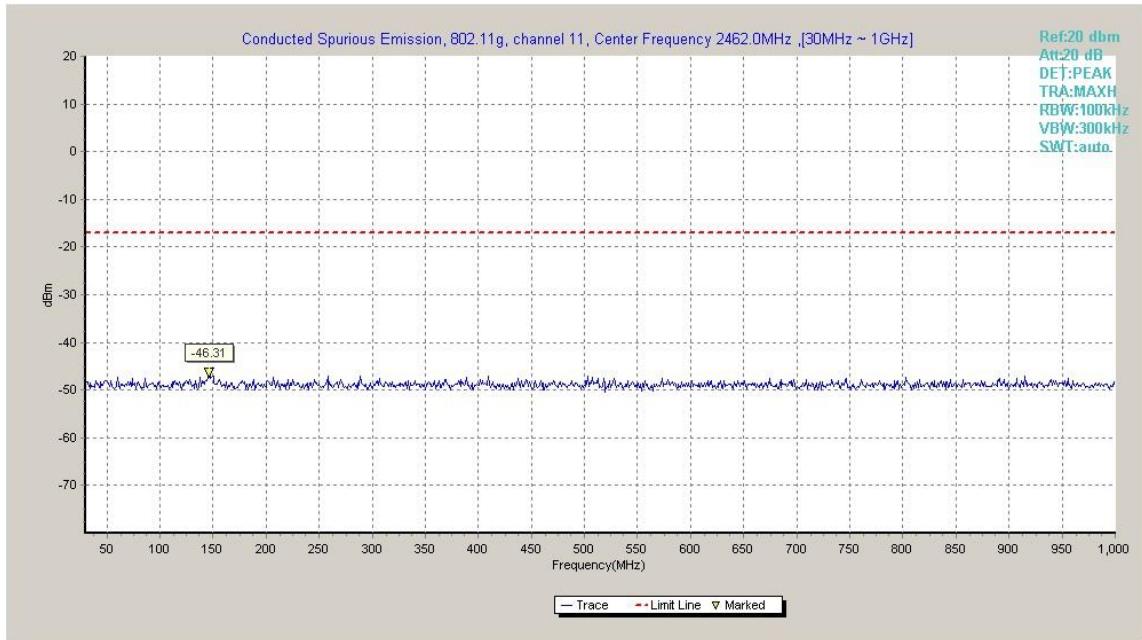


Fig.A.6.1.42 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 30 MHz-1 GHz)

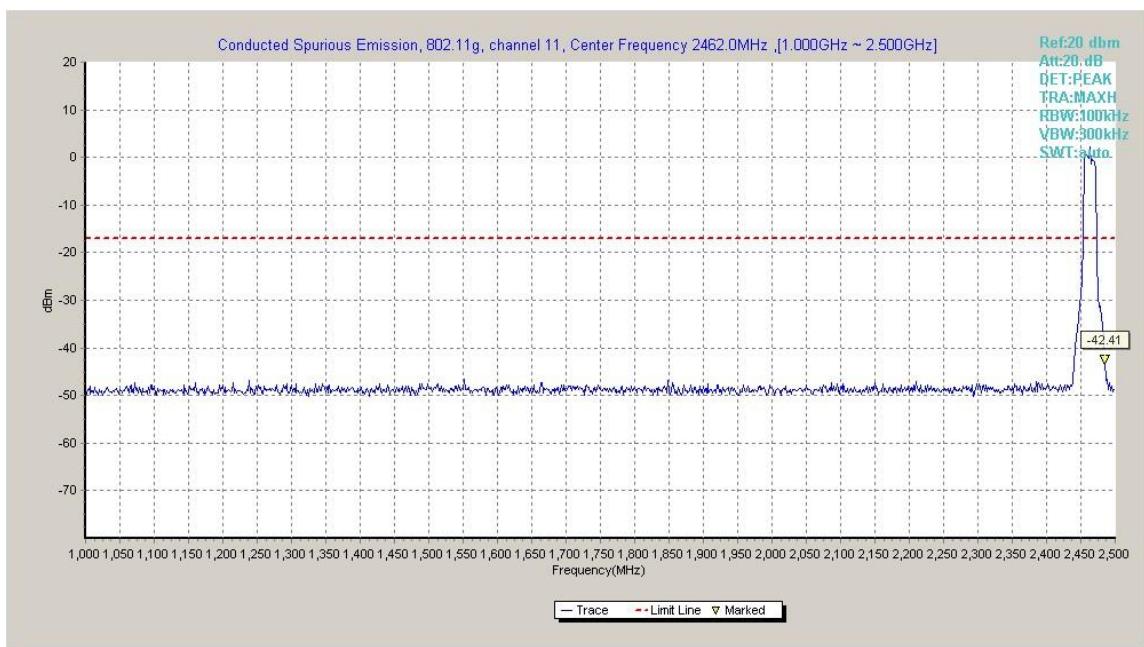


Fig.A.6.1.43 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 1 GHz-2.5 GHz)

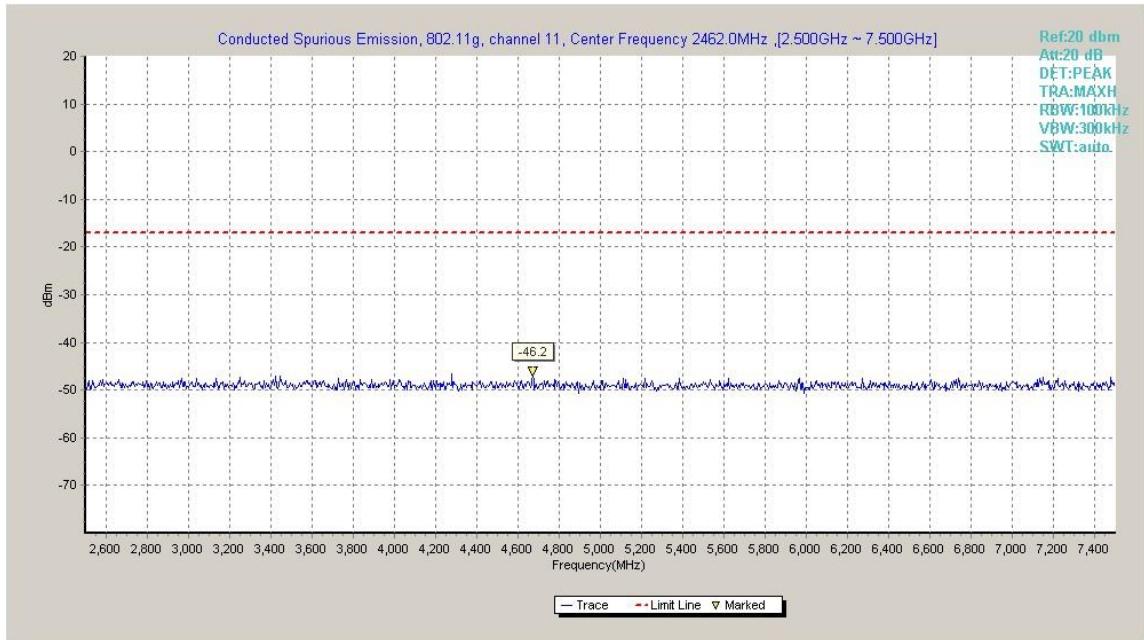


Fig.A.6.1.44 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 2.5 GHz-7.5 GHz)

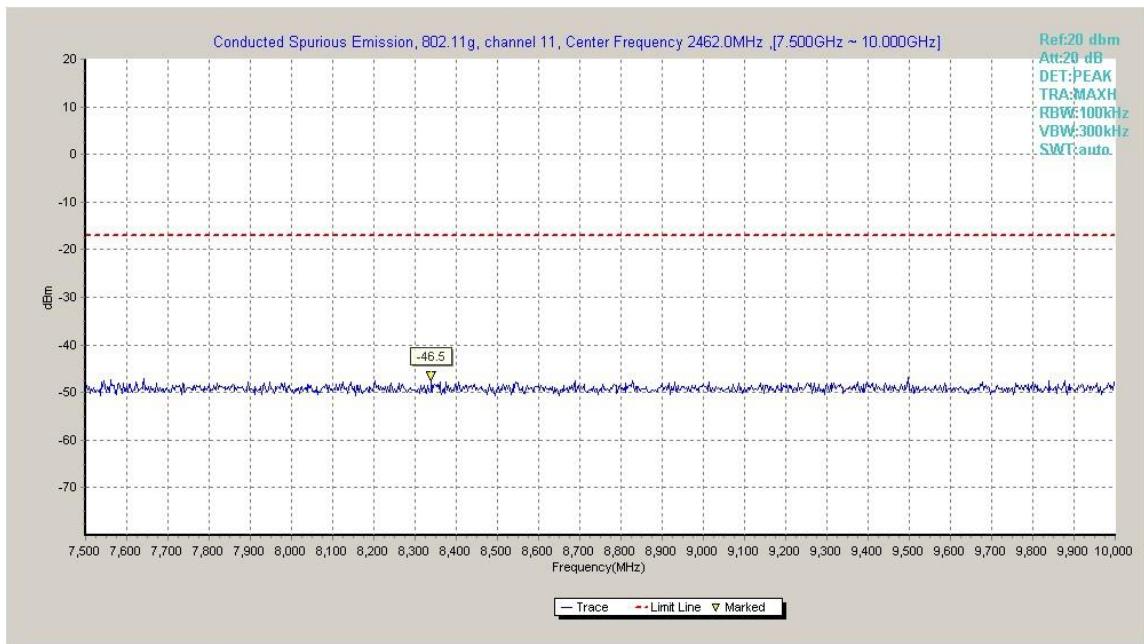


Fig.A.6.1.45 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 7.5 GHz-10 GHz)

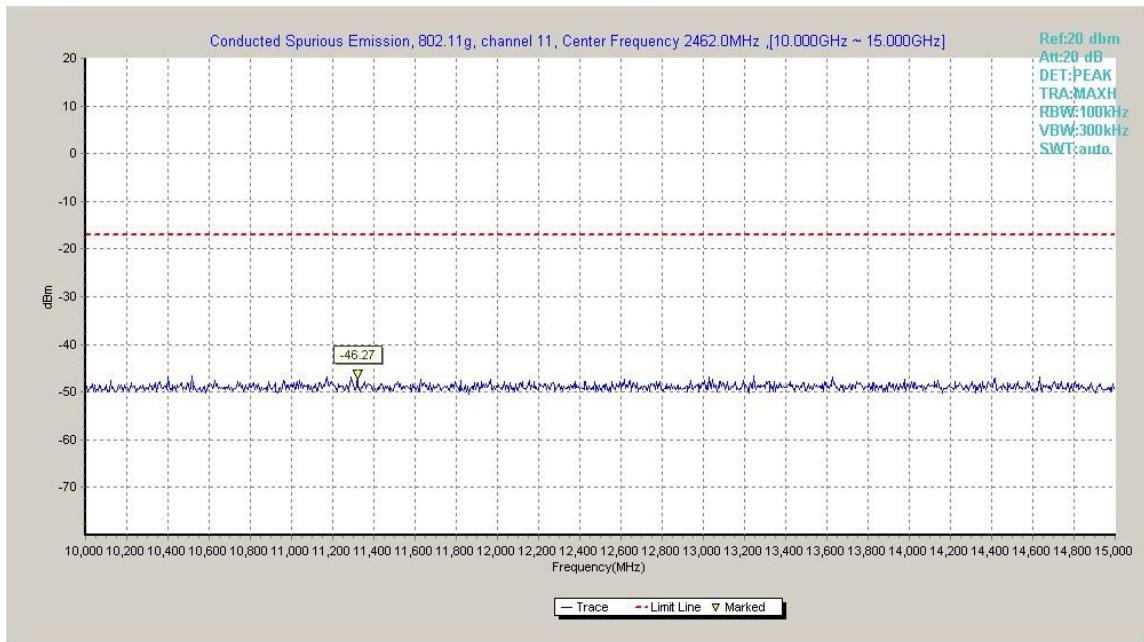


Fig.A.6.1.46 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 10 GHz-15 GHz)

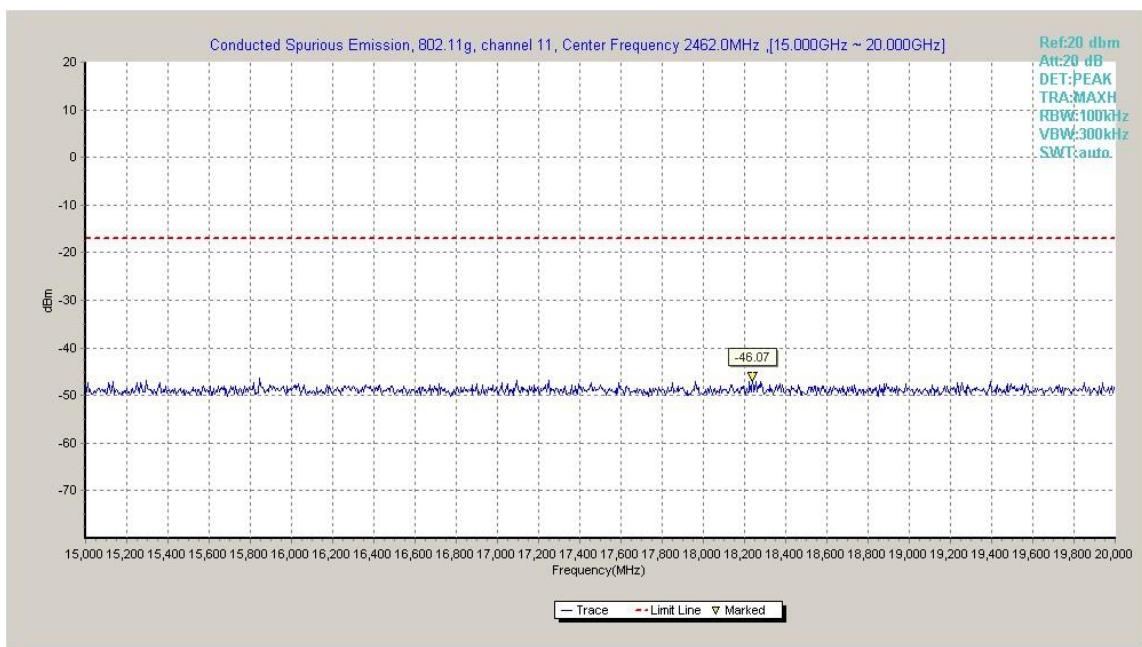


Fig.A.6.1.47 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 15 GHz-20 GHz)

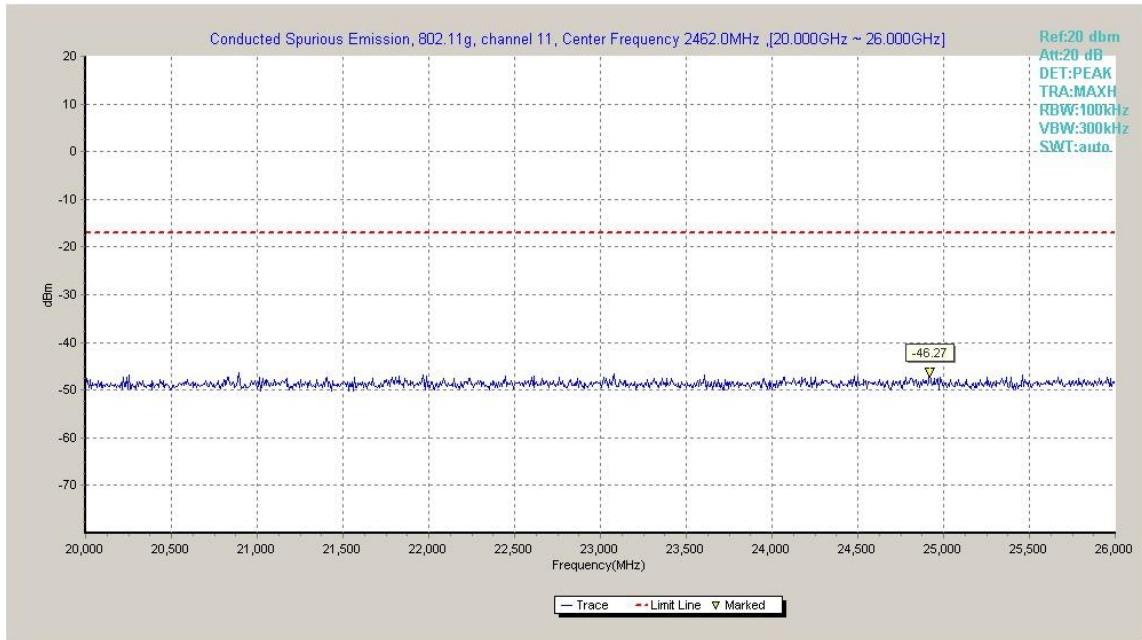


Fig.A.6.1.48 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 20 GHz-26 GHz)

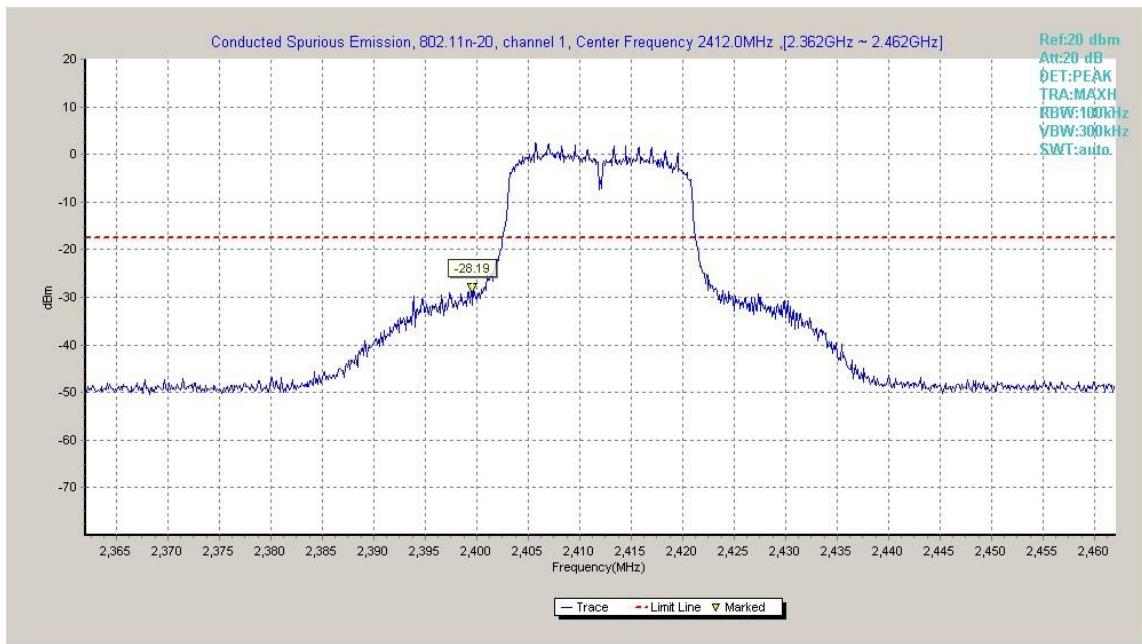


Fig.A.6.1.49 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, Center Frequency)

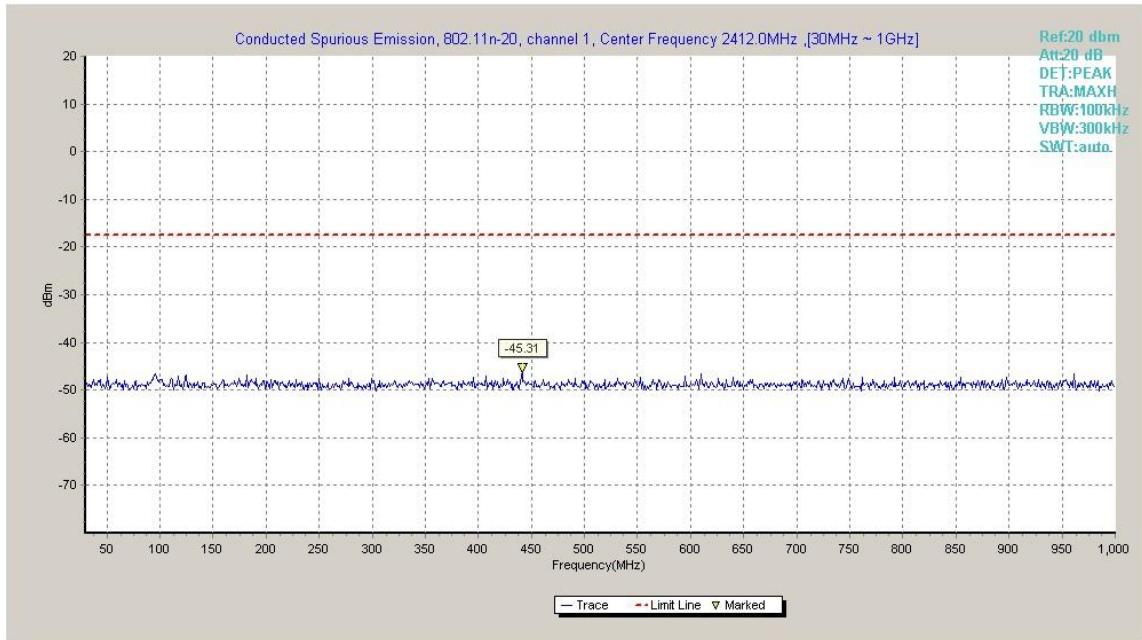


Fig.A.6.1.50 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 30 MHz-1 GHz)

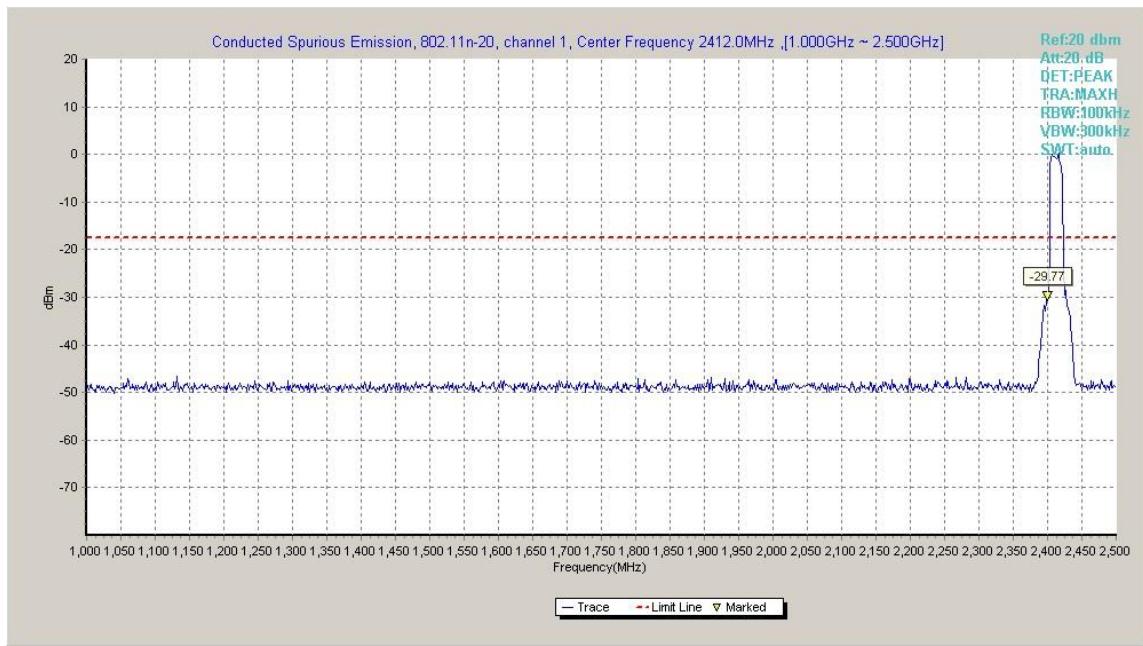


Fig.A.6.1.51 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 1 GHz-2.5 GHz)

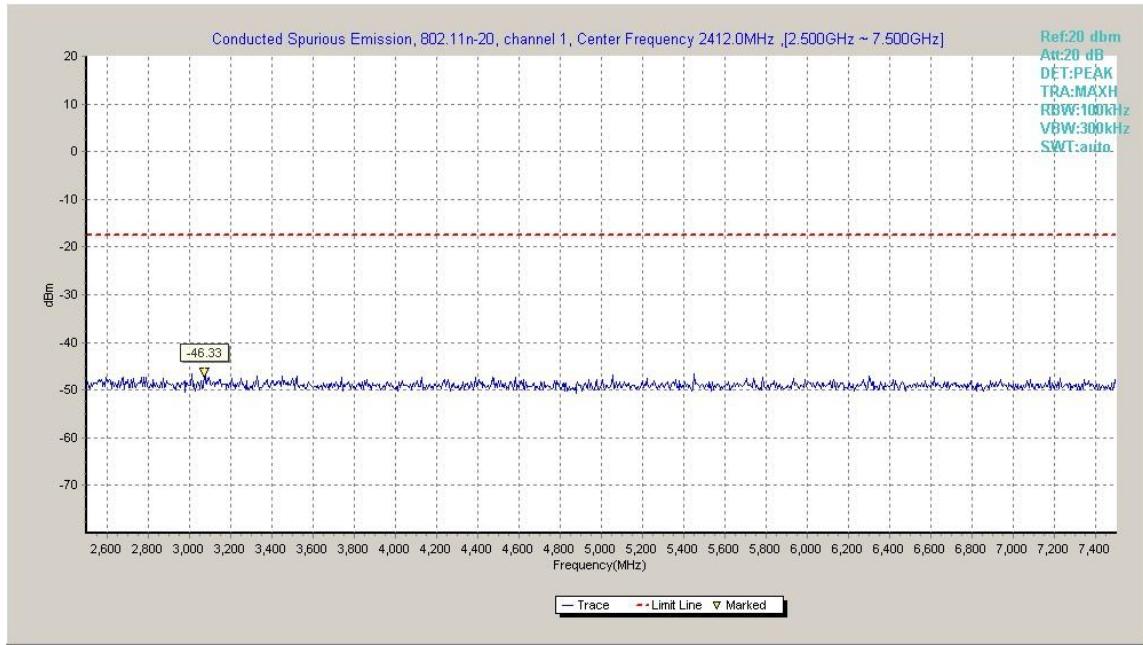


Fig.A.6.1.52 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 2.5 GHz-7.5 GHz)

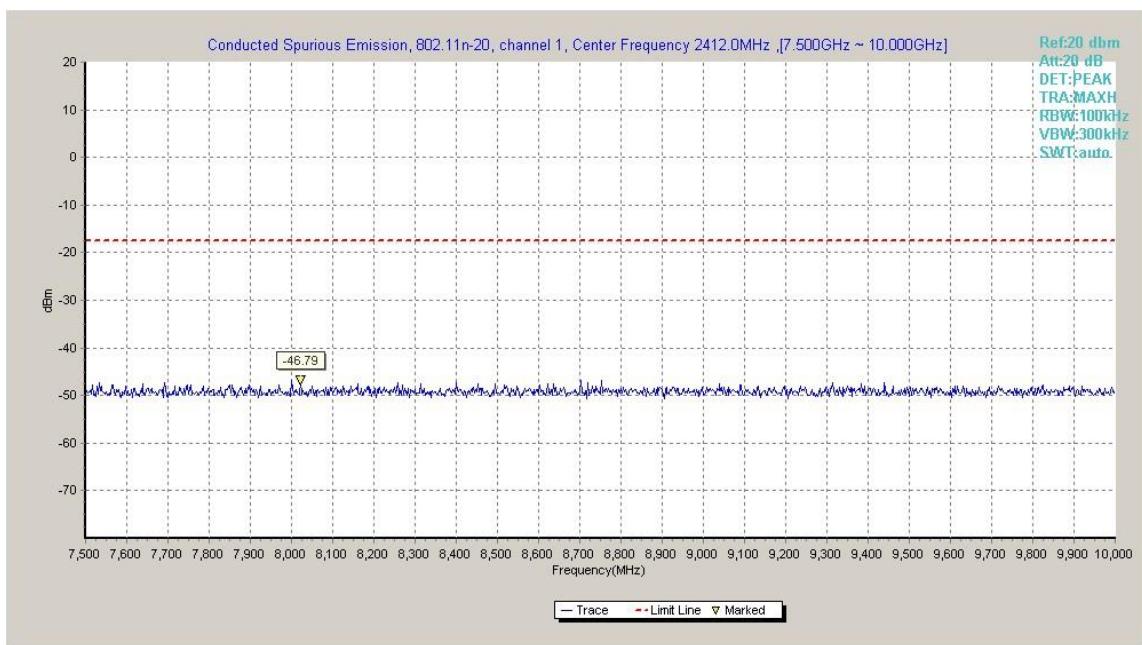


Fig.A.6.1.53 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 7.5 GHz-10 GHz)

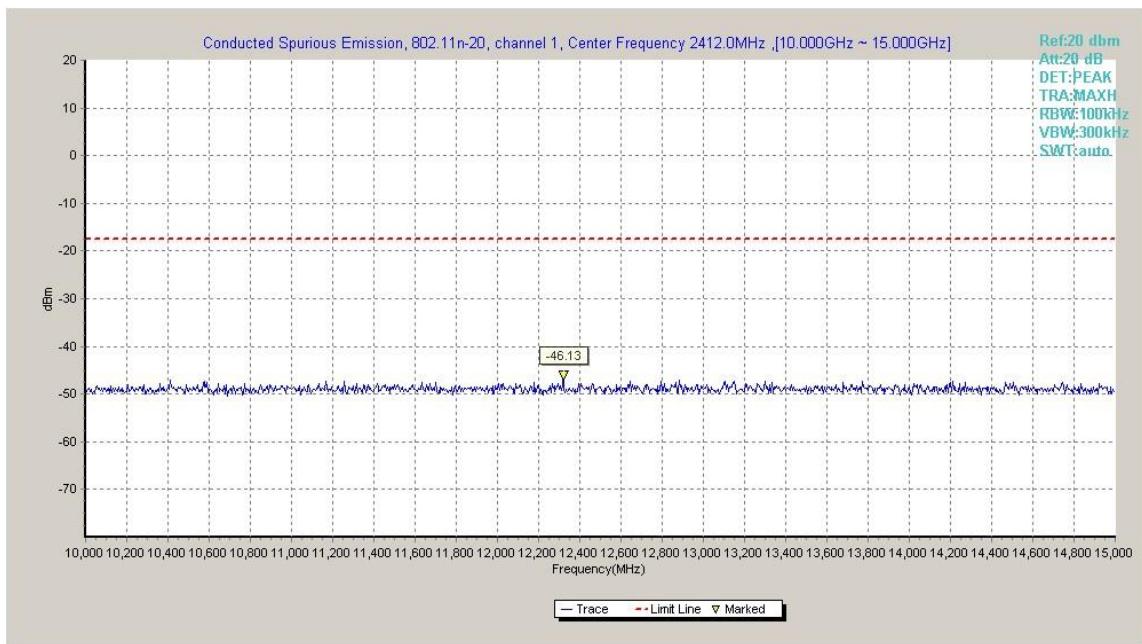


Fig.A.6.1.54 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 10 GHz-15 GHz)

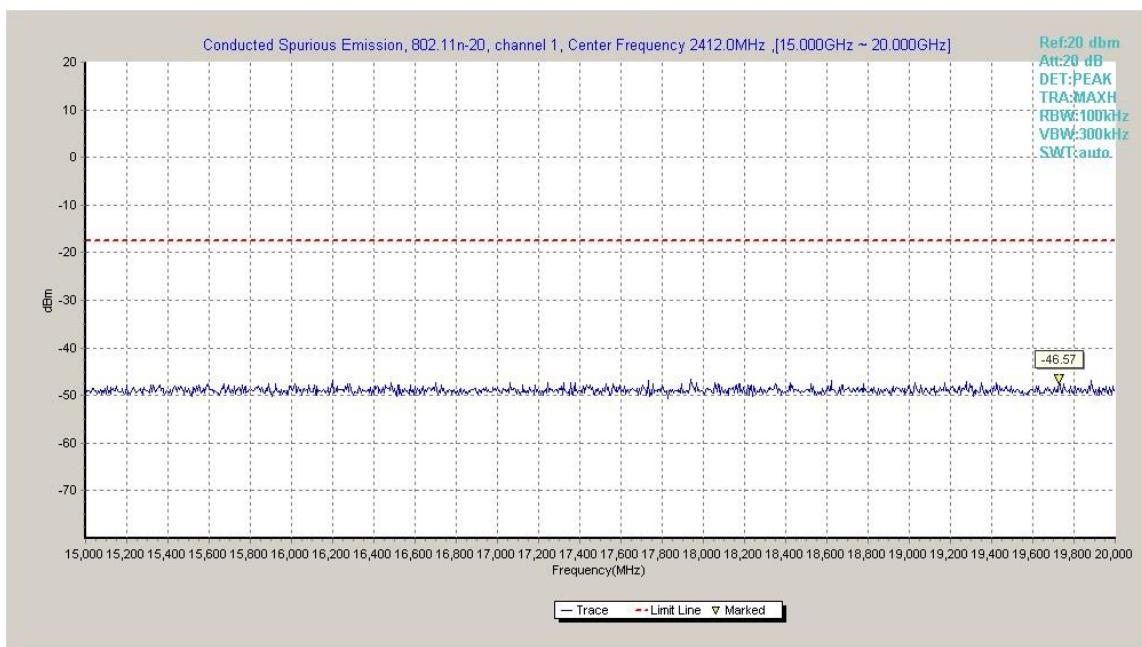


Fig.A.6.1.55 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 15 GHz-20 GHz)

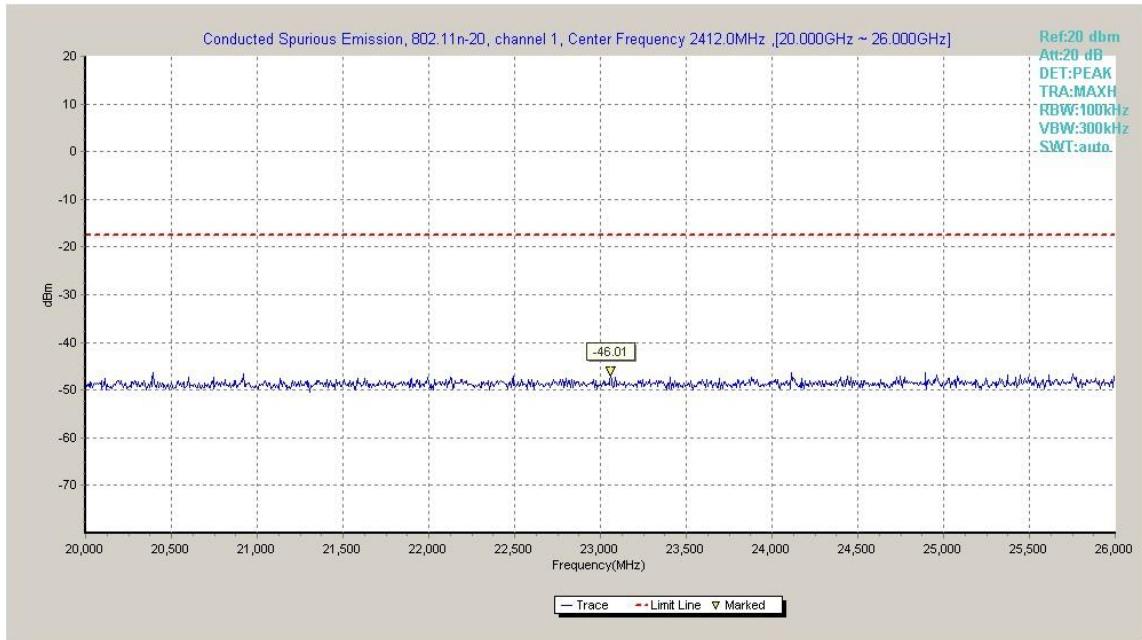


Fig.A.6.1.56 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 20 GHz-26 GHz)

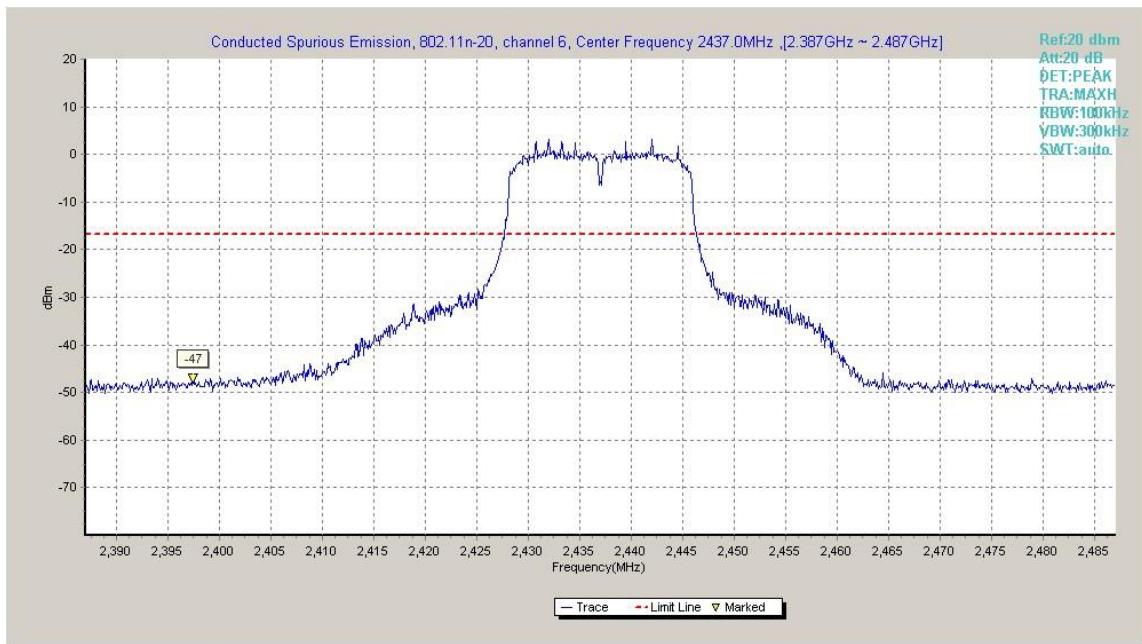


Fig.A.6.1.57 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, Center Frequency)

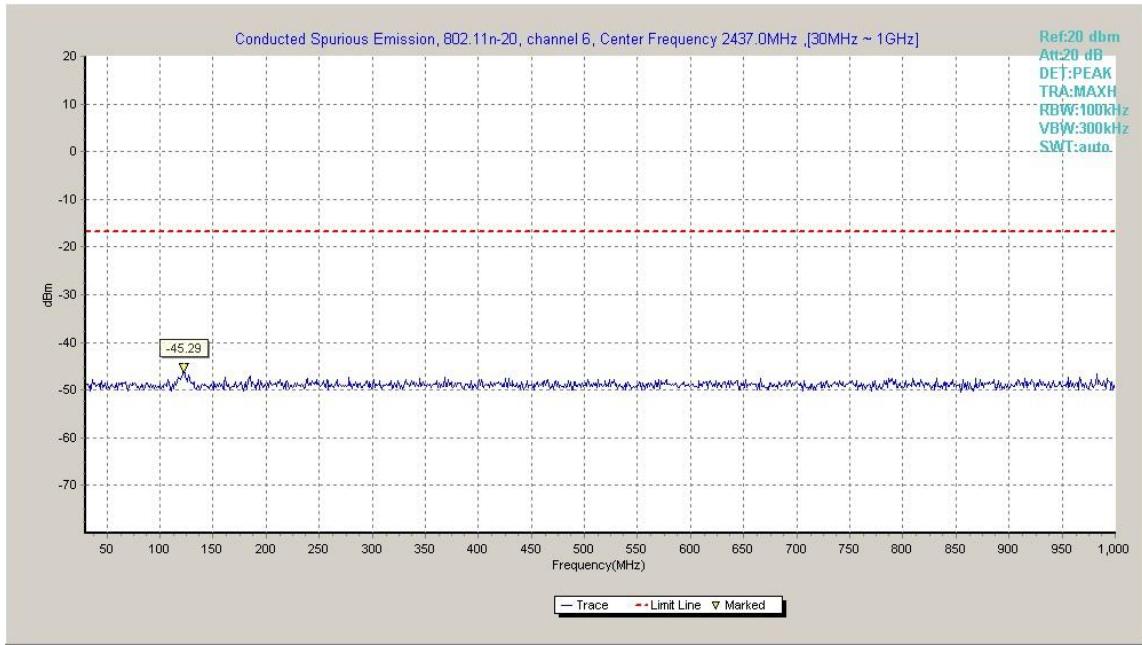


Fig.A.6.1.58 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 30 MHz-1 GHz)

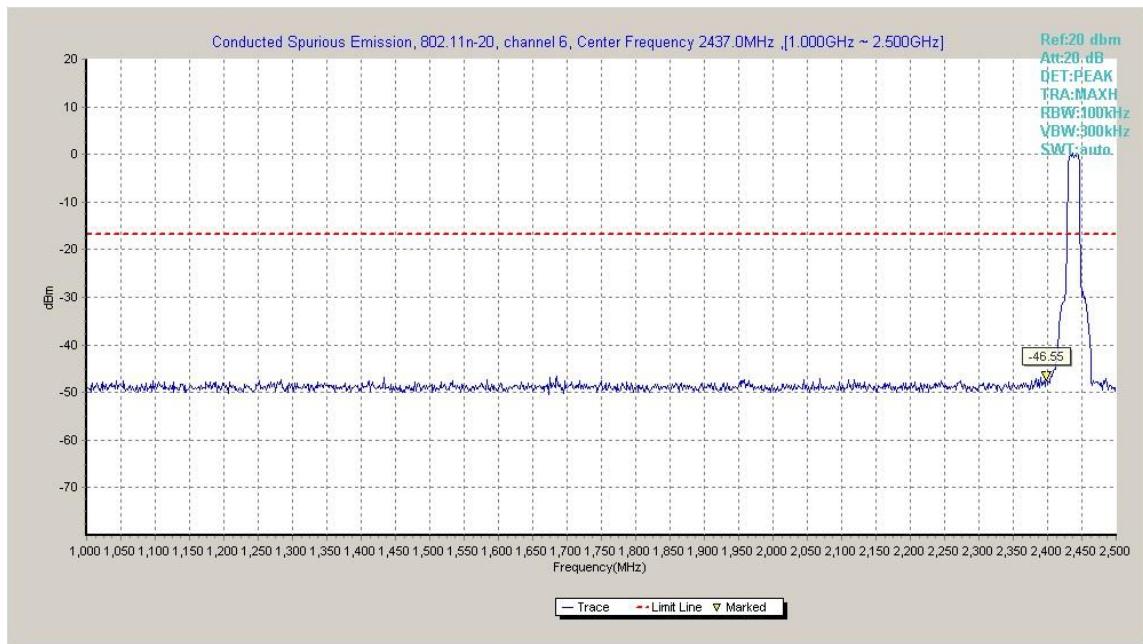


Fig.A.6.1.59 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)

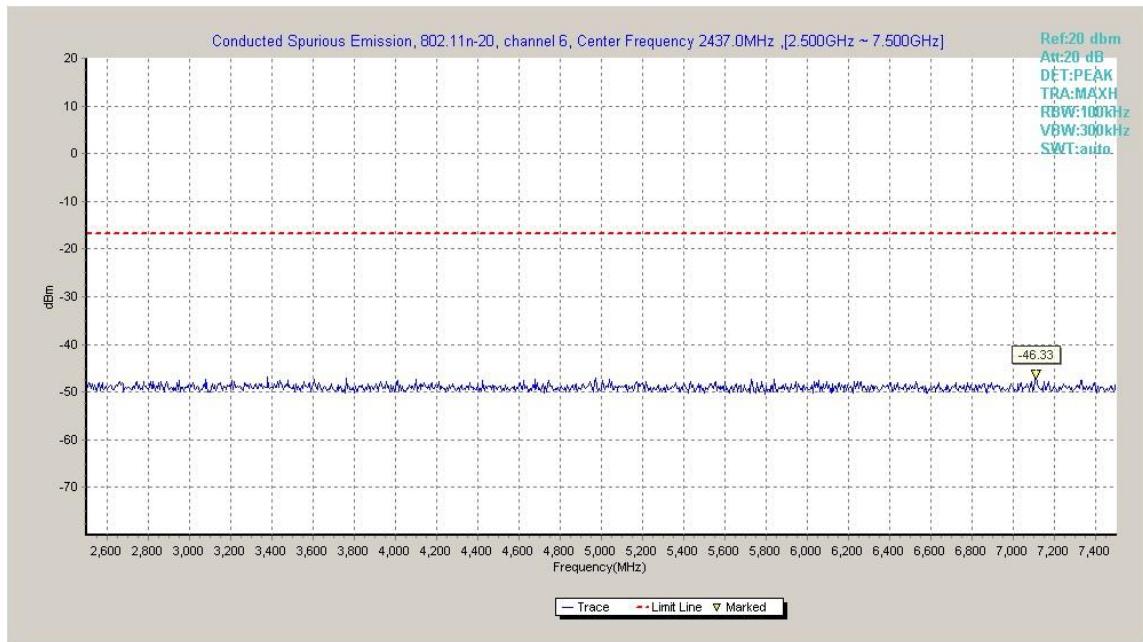


Fig.A.6.1.60 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)

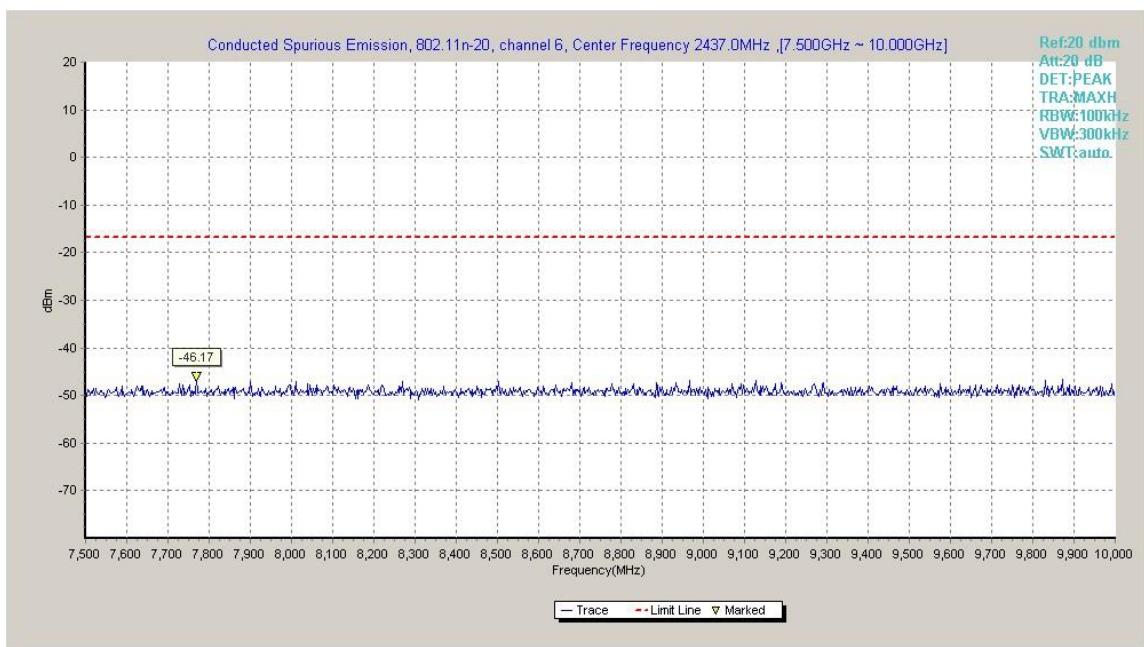


Fig.A.6.1.61 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)

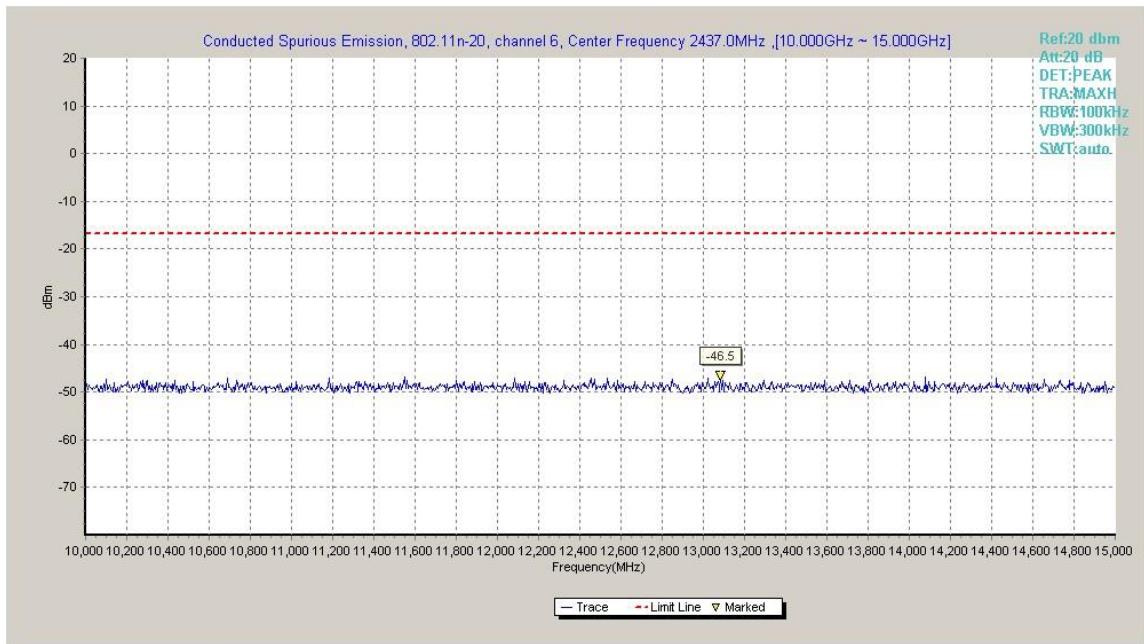


Fig.A.6.1.62 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 10 GHz-15 GHz)

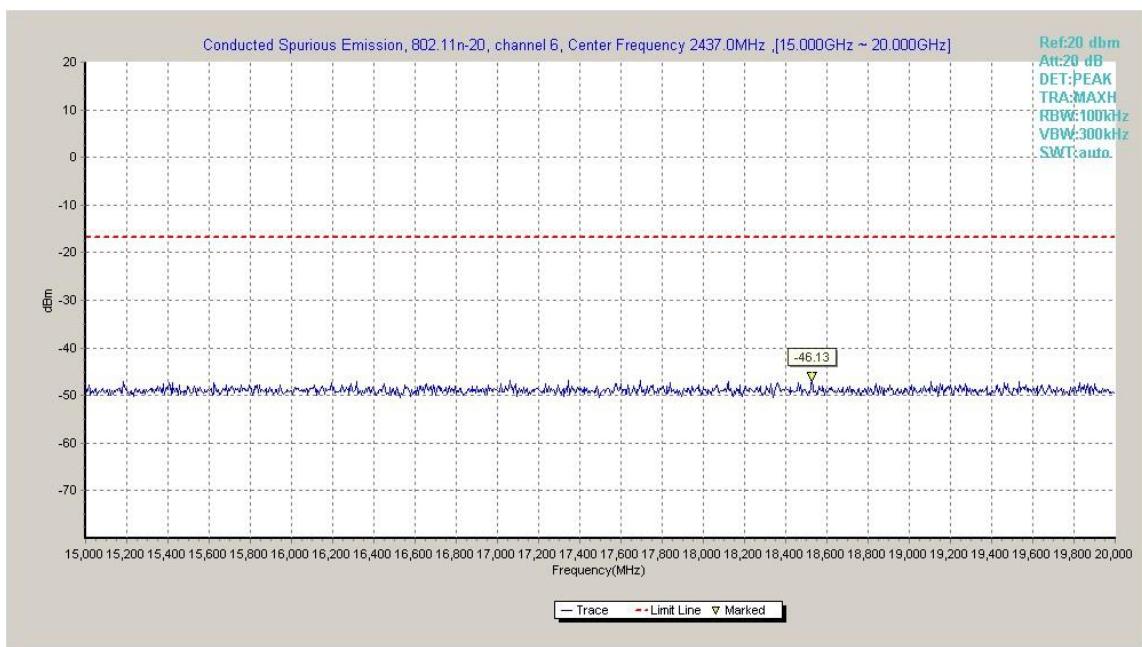


Fig.A.6.1.63 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 15 GHz-20 GHz)

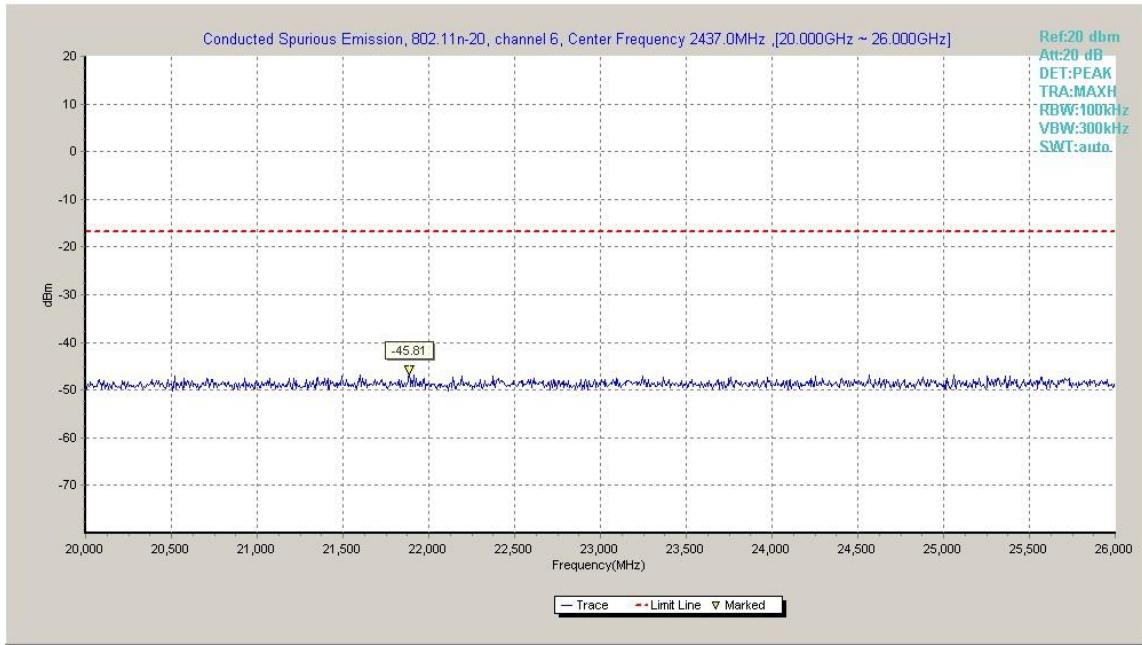


Fig.A.6.1.64 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 20 GHz-26 GHz)

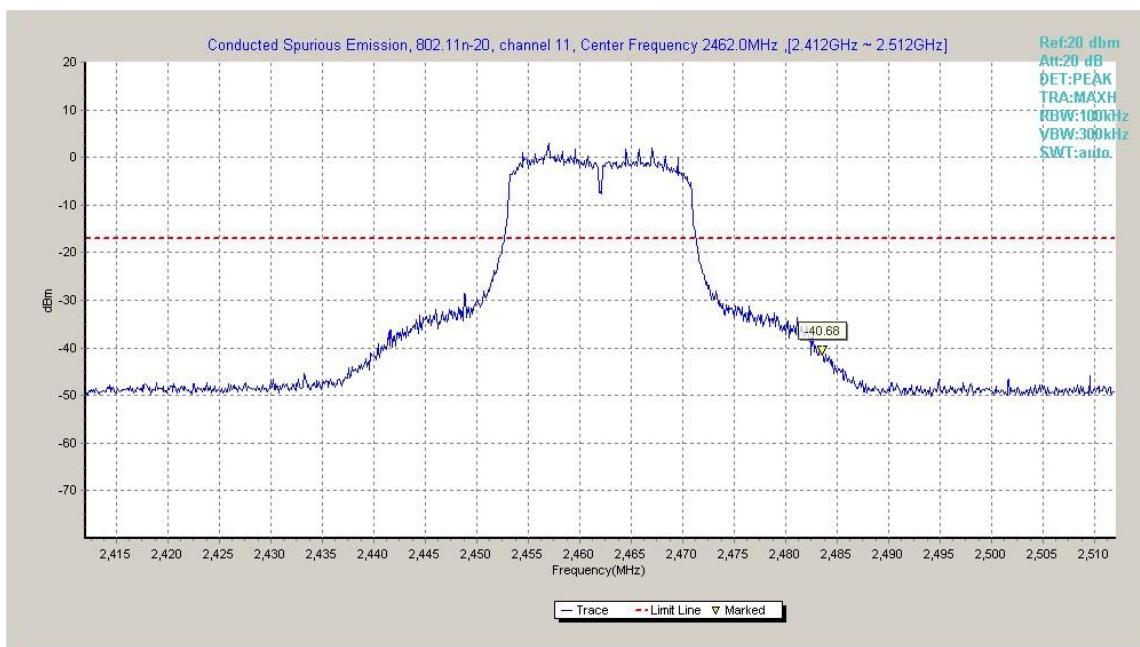


Fig.A.6.1.65 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)

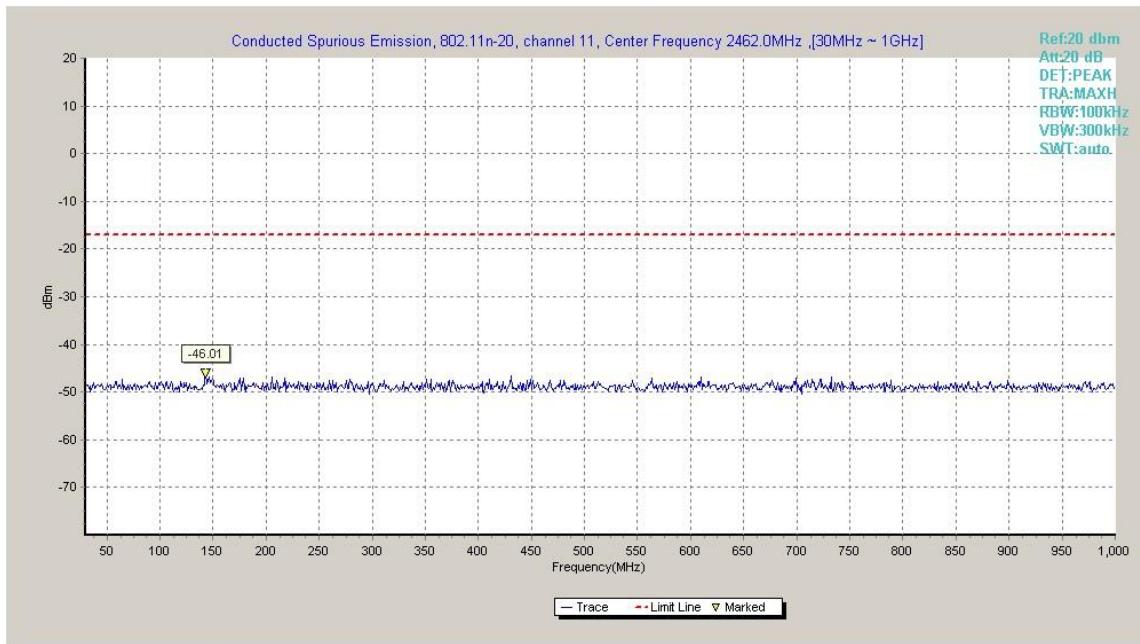


Fig.A.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)

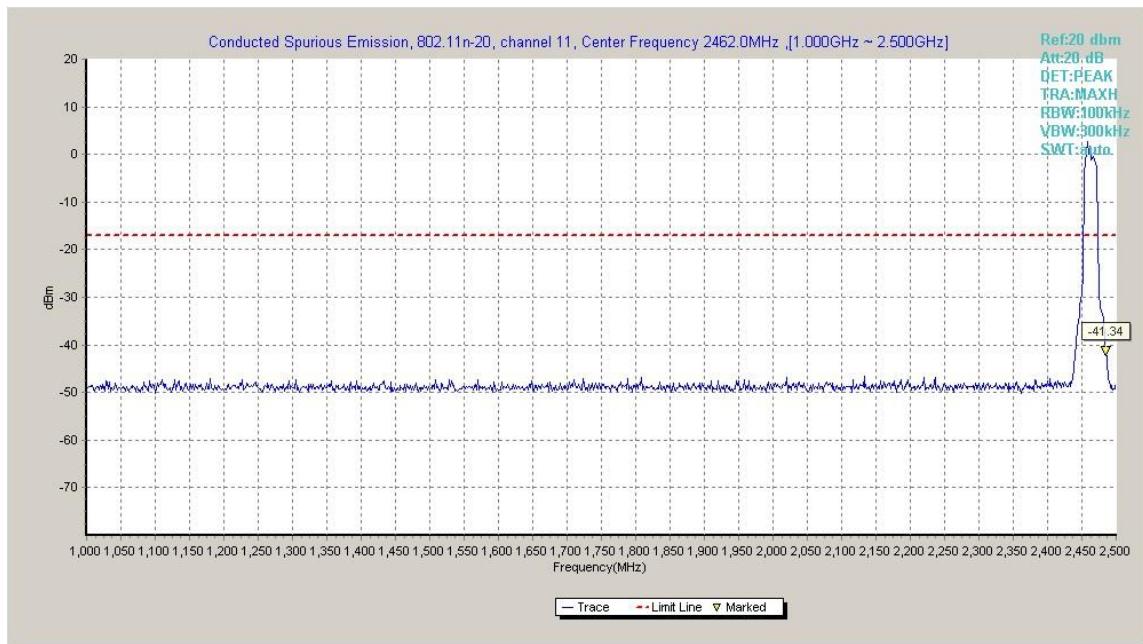


Fig.A.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)

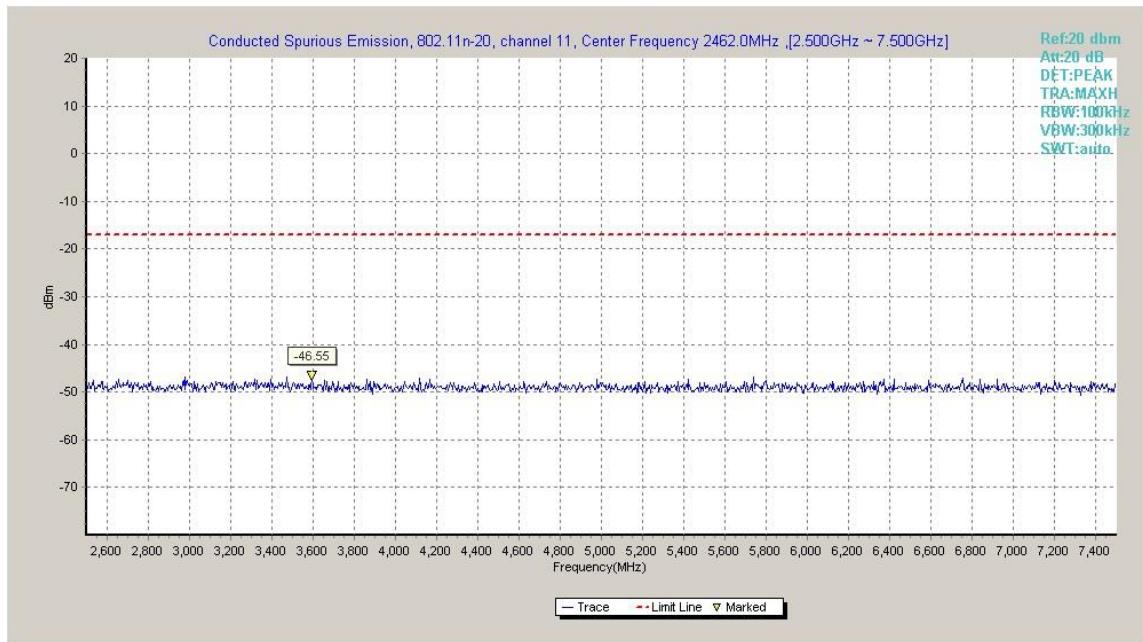


Fig.A.6.1.68 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)

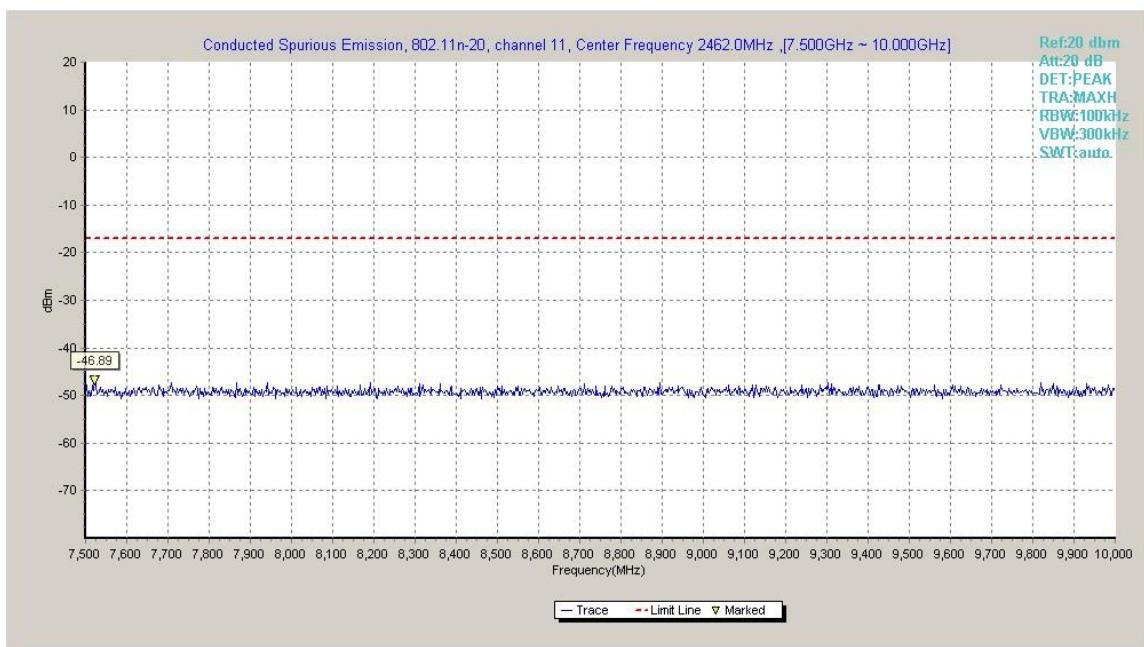


Fig.A.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)

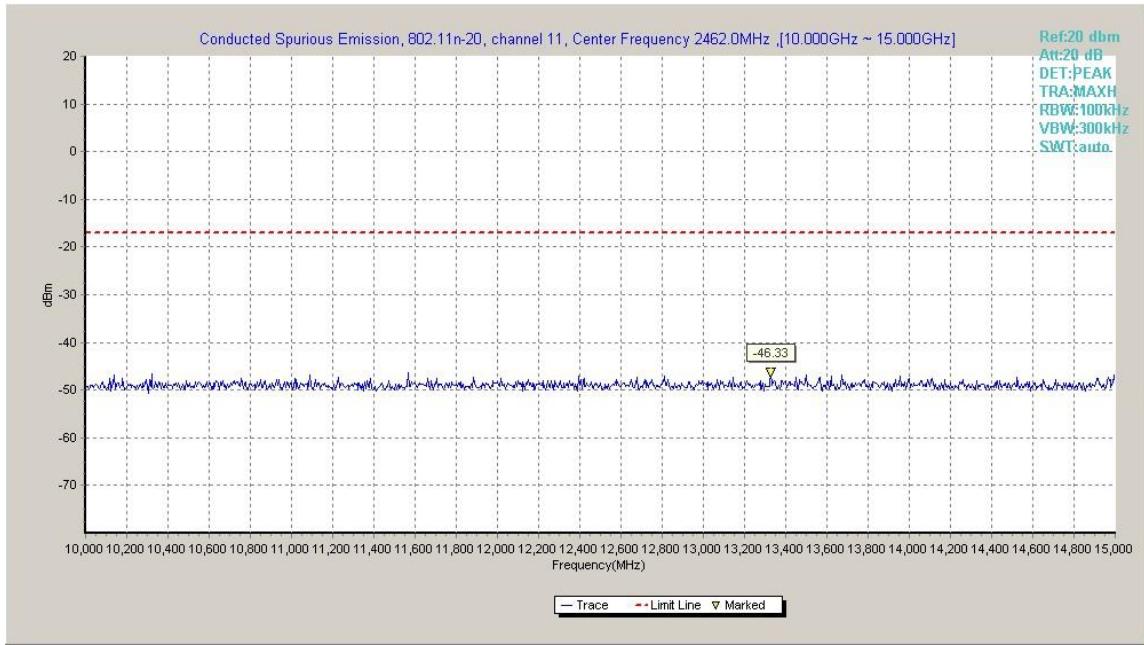


Fig.A.6.1.70 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 10 GHz-15 GHz)

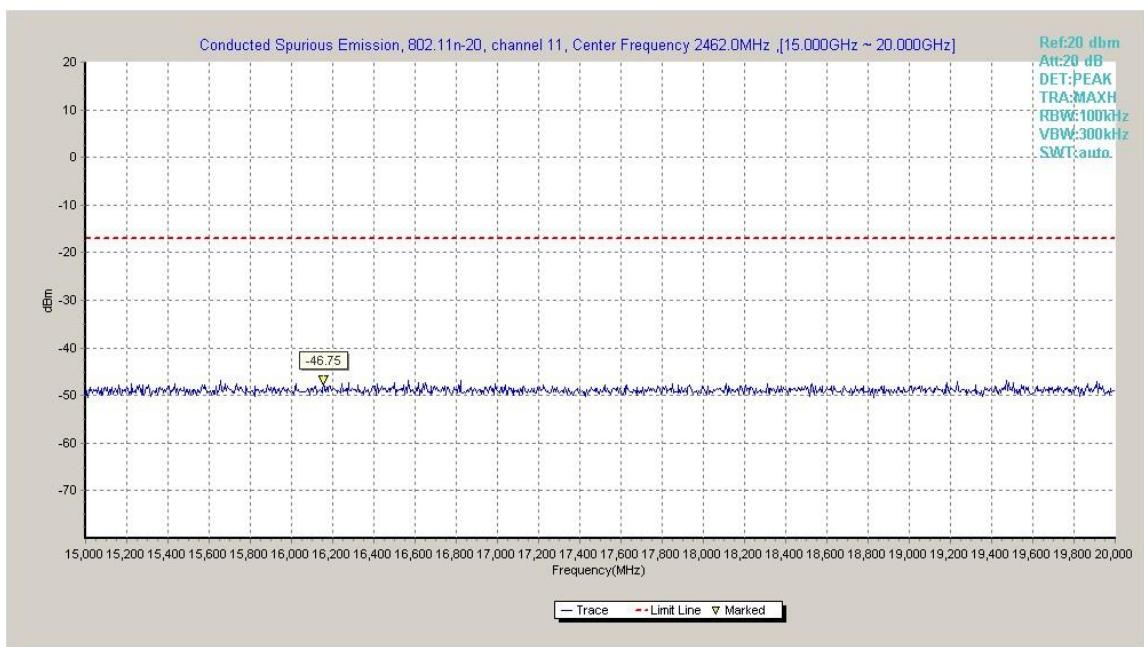


Fig.A.6.1.71 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 15 GHz-20 GHz)

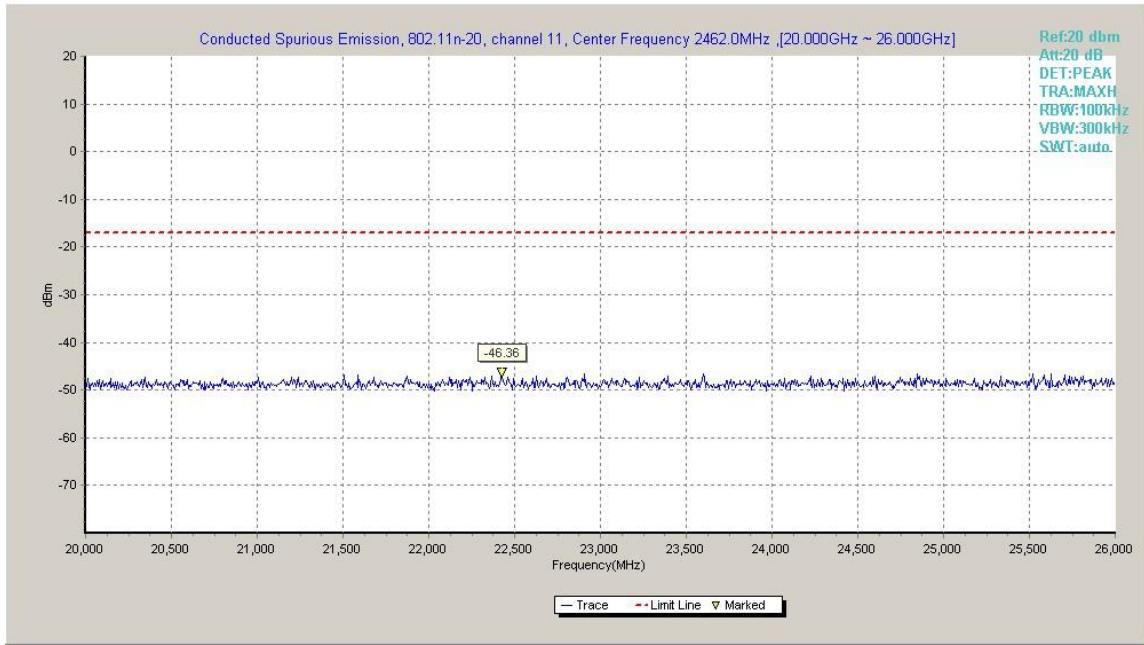


Fig.A.6.1.72 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 20 GHz-26 GHz)

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(μ V/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/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

EUT ID: EUT1

Measurement Results for Set.11:
802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power(ch1)	2.38GHz ~2.43GHz	Fig.A.6.2.1	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.2	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power(ch1)	2.38GHz ~2.43GHz	Fig.A.6.2.3	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.4	P
	Power(ch2)	2.38GHz ~2.43GHz	Fig.A.6.2.5	P
	Power(ch10)	2.45GHz ~2.5GHz	Fig.A.6.2.6	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	Power(ch1)	2.38GHz ~2.43GHz	Fig.A.6.2.7	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.8	P
	Power(ch2)	2.38GHz ~2.43GHz	Fig.A.6.2.9	P
	Power(ch10)	2.45GHz ~2.5GHz	Fig.A.6.2.10	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:

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



802.11b-Average

Ch1

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2388.900	46.49	2.9	32.0	11.67	54.0	7.5	H	155	174
2390.000	46.64	2.9	32.0	11.81	54.0	7.4	H	155	195
4824.000	32.96	-35.2	34.1	34.11	54.0	21.0	H	155	140
7236.000	37.25	-32.4	35.8	33.90	54.0	16.7	H	155	8
9648.000	40.36	-30.1	36.8	33.72	54.0	13.6	H	155	80
12060.000	41.60	-31.0	38.9	33.71	54.0	12.4	H	155	243

Ch6

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2412.700	47.96	2.9	32.0	13.11	54.0	6.0	H	155	8
2460.000	46.57	2.9	32.0	11.67	54.0	7.4	H	155	28
4874.000	53.01	-35.5	34.1	54.43	54.0	1.0	H	155	135
7311.000	38.09	-31.6	35.8	33.89	54.0	15.9	H	155	156
9748.000	39.21	-31.3	36.9	33.59	54.0	14.8	H	155	180
12185.000	43.70	-29.1	39.0	33.85	54.0	10.3	H	155	204

Ch11

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.500	46.29	2.9	32.0	11.37	54.0	7.7	H	155	268
2484.100	46.38	2.9	32.0	11.46	54.0	7.6	H	155	290
4924.000	33.25	-35.2	34.1	34.32	54.0	20.8	H	155	312
7386.000	38.60	-31.2	35.8	34.03	54.0	15.4	H	155	46
9848.000	40.14	-30.5	37.0	33.67	54.0	13.9	H	155	70
12310.000	41.48	-31.6	39.0	34.06	54.0	12.5	H	155	92

802.11b-Peak

Ch1

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2384.788	60.55	2.9	32.0	25.73	74.0	13.5	V	155	176
2385.460	60.65	2.9	32.0	25.83	74.0	13.3	V	155	198
4824.000	39.99	-35.2	34.1	41.14	74.0	34.0	V	155	132
7236.000	46.46	-32.4	35.8	43.11	74.0	27.5	H	155	0
9648.000	47.99	-30.1	36.8	41.35	74.0	26.0	V	155	88
12060.000	45.96	-31.0	38.9	38.08	74.0	28.0	V	155	242

Ch6

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2378.600	47.78	-26.4	32.0	42.23	74.0	26.2	V	155	0
2502.600	48.09	-26.3	32.0	42.41	74.0	25.9	V	155	22
4874.000	54.51	-35.5	34.1	55.93	74.0	19.5	H	155	132
7311.000	44.47	-31.6	35.8	40.27	74.0	29.5	V	155	154
9748.000	44.07	-31.3	36.9	38.45	74.0	29.9	V	155	176
12185.000	47.62	-29.1	39.0	37.76	74.0	26.4	H	155	198

Ch11

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.930	60.92	2.9	32.0	25.99	74.0	13.1	H	155	264
2485.950	66.40	2.9	32.0	31.47	74.0	7.6	H	155	286
4924.000	41.14	-35.2	34.1	42.21	74.0	32.9	V	155	308
7386.000	48.27	-31.2	35.8	43.70	74.0	25.7	H	155	44
9848.000	47.20	-30.5	37.0	40.73	74.0	26.8	H	155	66
12310.000	45.60	-31.6	39.0	38.17	74.0	28.4	V	155	88



802.11g - Average

Ch1

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2389.000	48.87	2.9	32.0	14.04	54.0	5.1	H	155	4
2389.200	48.86	2.9	32.0	14.04	54.0	5.1	H	155	26
4824.000	32.85	-35.2	34.1	34.00	54.0	21.2	H	155	72
7236.000	37.20	-32.4	35.8	33.84	54.0	16.8	H	155	90
9648.000	40.43	-30.1	36.8	33.79	54.0	13.6	H	155	46
12060.000	41.69	-31.0	38.9	33.80	54.0	12.3	H	155	16

Ch6

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2404.900	48.27	2.9	32.0	13.43	54.0	5.7	H	155	152
2462.900	49.14	2.9	32.0	14.24	54.0	4.9	H	155	174
4874.000	40.49	-35.5	34.1	41.90	54.0	13.5	H	155	72
7311.000	38.18	-31.6	35.8	33.98	54.0	15.8	H	155	136
9748.000	39.22	-31.3	36.9	33.60	54.0	14.8	H	155	94
12185.000	43.69	-29.1	39.0	33.84	54.0	10.3	H	155	48

Ch11

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.500	47.55	2.9	32.0	12.62	54.0	6.5	H	155	28
2483.900	47.30	2.9	32.0	12.38	54.0	6.7	H	155	49
4924.000	33.11	-35.2	34.1	34.19	54.0	20.9	H	155	246
7386.000	38.48	-31.2	35.8	33.91	54.0	15.5	H	155	182
9848.000	40.17	-30.5	37.0	33.70	54.0	13.8	H	155	94
12310.000	41.53	-31.6	39.0	34.10	54.0	12.5	H	155	42



802.11g - Peak

Ch1

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2389.492	66.47	2.9	32.0	31.64	74.0	7.5	H	155	0
2389.828	67.91	2.9	32.0	33.08	74.0	6.1	V	155	22
4824.000	39.24	-35.2	34.1	40.39	74.0	34.8	V	155	66
7236.000	43.37	-32.4	35.8	40.01	74.0	30.6	V	155	88
9648.000	46.35	-30.1	36.8	39.70	74.0	27.7	V	155	44
12060.000	47.39	-31.0	38.9	39.50	74.0	26.6	H	155	22

Ch6

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2368.200	47.04	-27.1	32.0	42.19	74.0	27.0	H	155	154
2502.800	47.09	-26.3	32.0	41.42	74.0	26.9	V	155	176
4874.000	54.78	-35.5	34.1	56.19	74.0	19.2	H	155	66
7311.000	44.69	-31.6	35.8	40.49	74.0	29.3	V	155	132
9748.000	45.25	-31.3	36.9	39.63	74.0	28.8	H	155	88
12185.000	48.11	-29.1	39.0	38.25	74.0	25.9	V	155	44

Ch11

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.740	66.63	2.9	32.0	31.70	74.0	7.4	H	155	22
2484.050	67.05	2.9	32.0	32.13	74.0	6.9	H	155	44
4924.000	40.31	-35.2	34.1	41.39	74.0	33.7	V	155	242
7386.000	45.34	-31.2	35.8	40.77	74.0	28.7	H	155	176
9848.000	46.66	-30.5	37.0	40.19	74.0	27.3	V	155	88
12310.000	45.42	-31.6	39.0	37.99	74.0	28.6	V	155	22



802.11n-HT20-Average

Ch1

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2389.800	49.97	2.9	32.0	15.14	54.0	4.0	H	155	40
2390.000	49.99	2.9	32.0	15.16	54.0	4.0	H	155	65
4824.000	32.85	-35.2	34.1	34.00	54.0	21.1	H	155	222
7236.000	37.15	-32.4	35.8	33.79	54.0	16.9	H	155	190
9648.000	40.42	-30.1	36.8	33.78	54.0	13.6	H	155	240
12060.000	41.64	-31.0	38.9	33.76	54.0	12.4	H	155	270

Ch6

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2407.600	48.48	2.9	32.0	13.64	54.0	5.5	H	155	92
2462.200	48.98	2.9	32.0	14.08	54.0	5.0	H	155	267
4879.000	39.48	-35.5	34.1	40.91	54.0	14.5	H	155	296
7311.000	38.10	-31.6	35.8	33.90	54.0	15.9	H	155	314
9748.000	39.29	-31.3	36.9	33.66	54.0	14.7	H	155	90
12185.000	43.67	-29.1	39.0	33.82	54.0	10.3	H	155	112

Ch11

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.500	48.19	2.9	32.0	13.27	54.0	5.8	H	155	28
2483.700	48.03	2.9	32.0	13.11	54.0	6.0	H	155	48
4924.500	32.98	-35.2	34.1	34.06	54.0	21.0	H	155	8
7386.000	38.47	-31.2	35.8	33.90	54.0	15.5	H	155	16
9847.500	40.18	-30.6	37.0	33.72	54.0	13.8	H	155	228
12310.500	41.45	-31.6	39.0	34.03	54.0	12.6	H	155	92

802.11n-HT20-Peak

Ch1

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2389.716	69.95	2.9	32.0	35.12	74.0	4.1	V	155	44
2389.982	70.27	2.9	32.0	35.44	74.0	3.7	H	155	66
4824.000	39.07	-35.2	34.1	40.22	74.0	34.9	V	155	220
7236.000	42.87	-32.4	35.8	39.51	74.0	31.1	V	155	198
9648.000	45.30	-30.1	36.8	38.66	74.0	28.7	H	155	242
12060.000	45.24	-31.0	38.9	37.36	74.0	28.8	V	155	264

Ch6

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2372.400	47.23	-26.8	32.0	42.11	74.0	26.8	H	155	88
2497.800	47.35	-25.8	32.0	41.12	74.0	26.6	H	155	264
4879.500	55.38	-35.5	34.1	56.82	74.0	18.6	V	155	286
7311.000	44.86	-31.6	35.8	40.65	74.0	29.1	H	155	308
9748.000	43.80	-31.3	36.9	38.18	74.0	30.2	V	155	88
12185.000	48.11	-29.1	39.0	38.26	74.0	25.9	V	155	110

Ch11

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.720	68.50	2.9	32.0	33.58	74.0	5.5	H	155	22
2483.790	68.29	2.9	32.0	33.36	74.0	5.7	H	155	44
4924.000	38.29	-35.2	34.1	39.36	74.0	35.7	V	155	0
7386.000	43.22	-31.2	35.8	38.65	74.0	30.8	H	155	22
9848.000	45.60	-30.5	37.0	39.13	74.0	28.4	H	155	242
12310.000	44.48	-31.6	39.0	37.05	74.0	29.5	H	155	88

Test graphs as below:

R E - Power-2.31GHz-2.45GHz

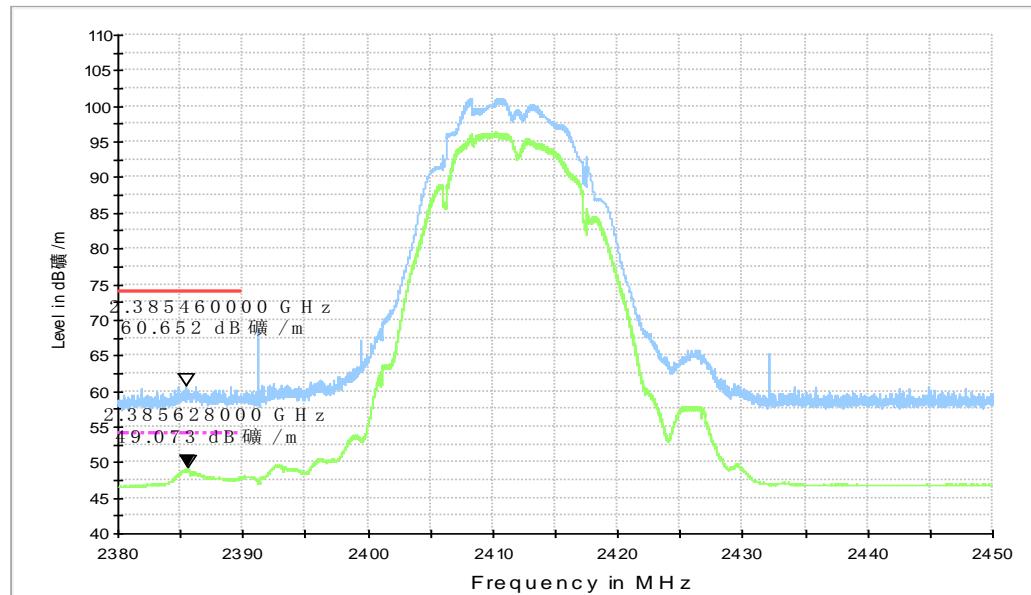


Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.38 GHz – 2.43GHz

R E - Power-2.45GHz-2.5GHz

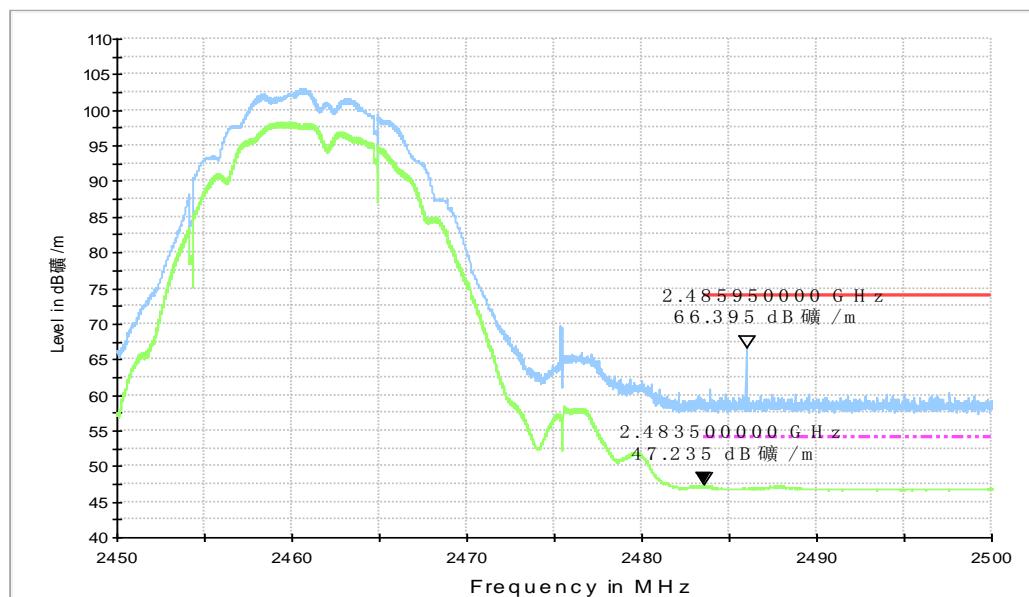


Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

R E - Power-2.31 GHz-2.45 GHz

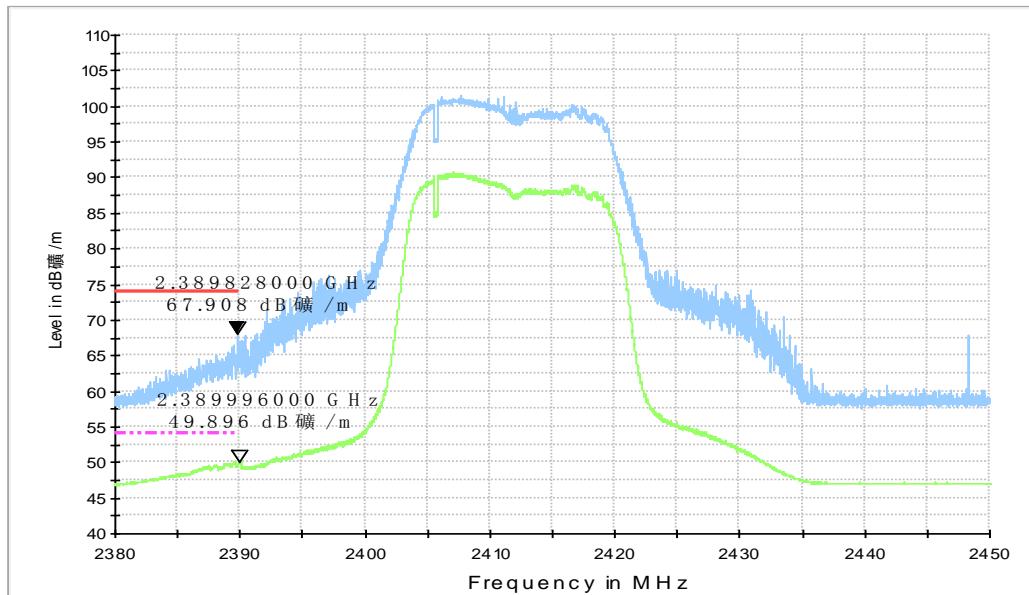


Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.38 GHz - 2.43GHz

R E - Power-2.45 GHz-2.5 GHz

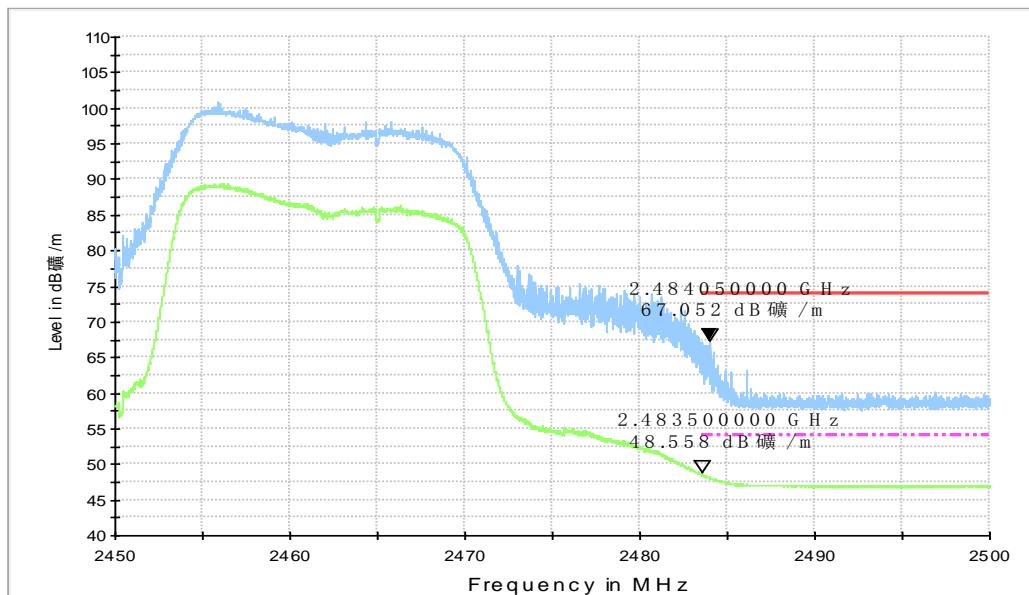


Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

R E - Power-2.31 GHz-2.45 GHz

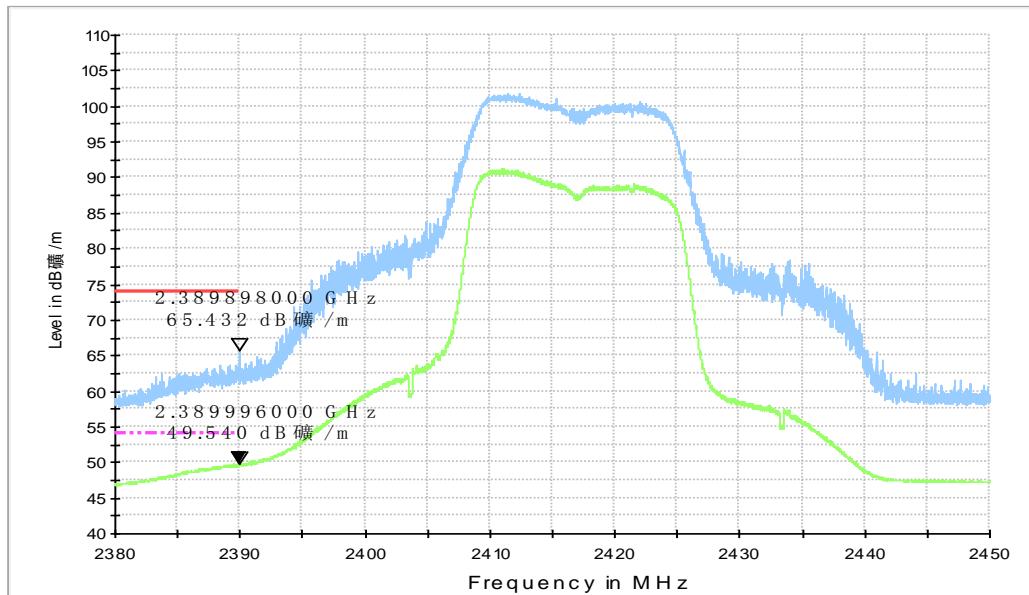


Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch2, 2.38 GHz - 2.43GHz

R E - Power-2.45 GHz-2.5 GHz

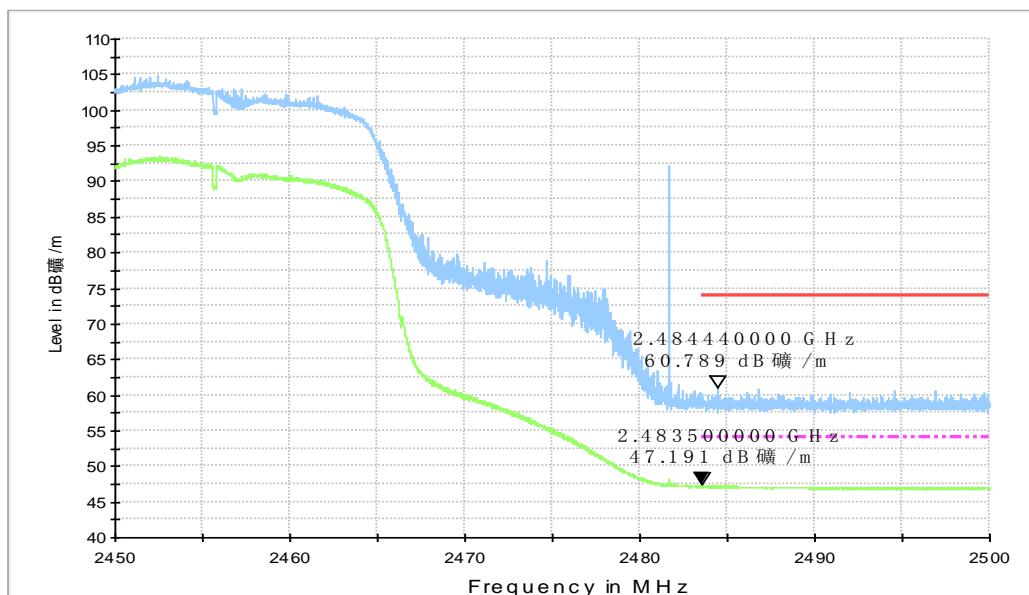


Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch10, 2.45 GHz - 2.50GHz

R E - Power-2.31GHz-2.45GHz

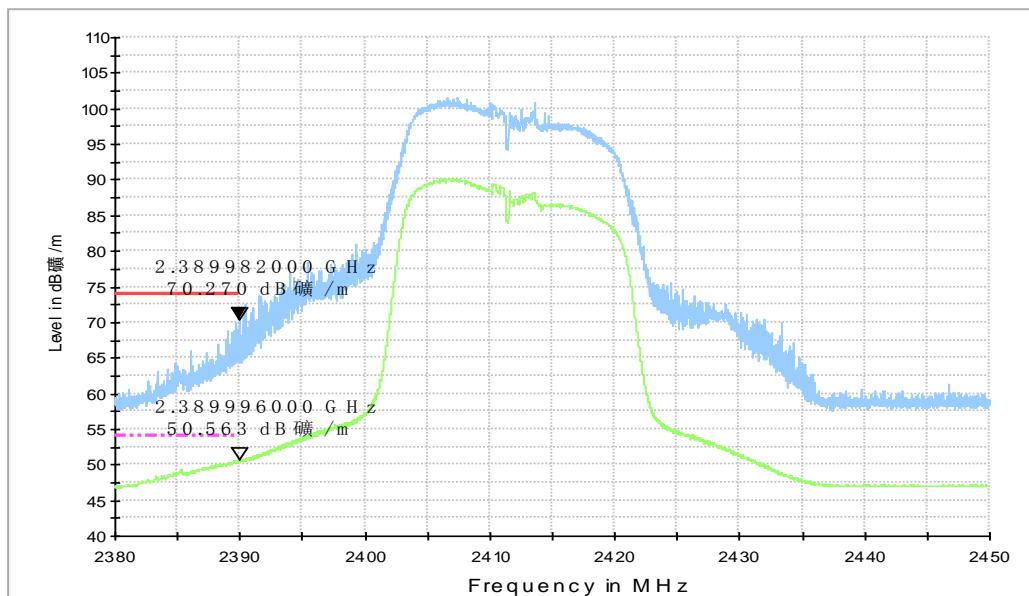


Fig.A.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

R E - Power-2.45GHz-2.5GHz

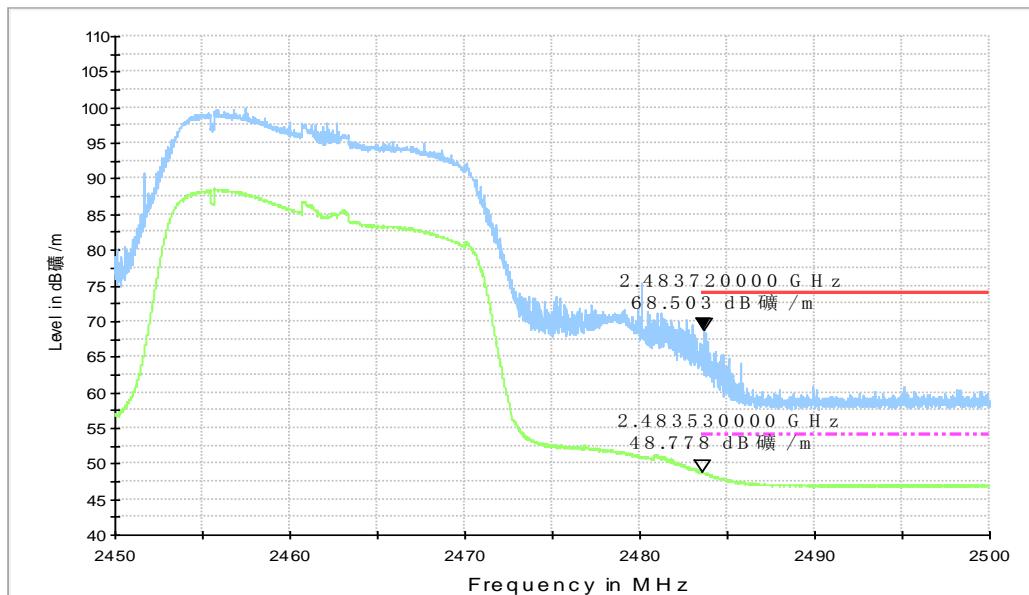


Fig.A.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

R E - Power-2.31GHz-2.45GHz

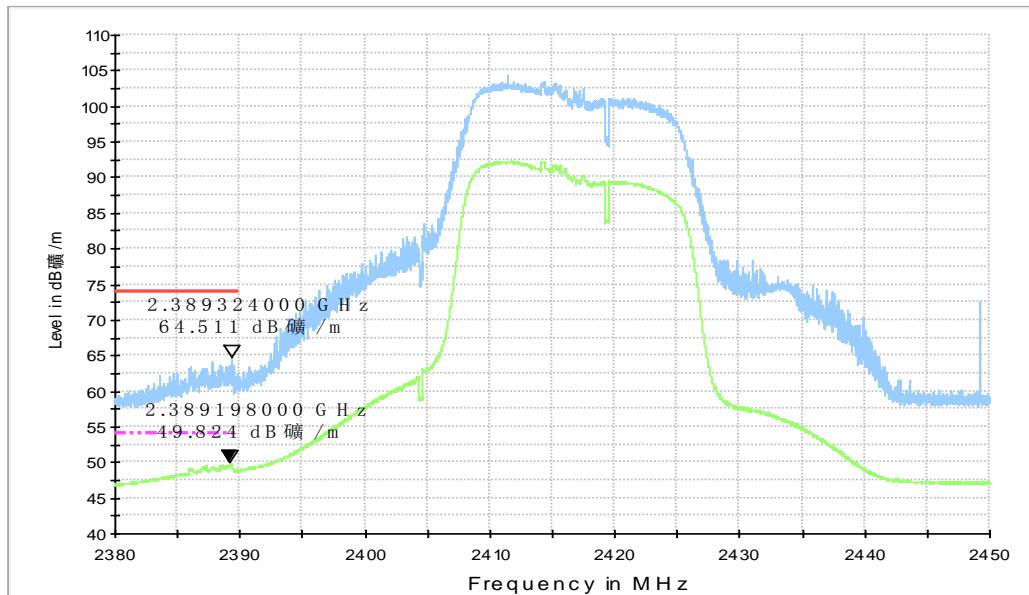


Fig.A.6.2.9 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch2, 2.38 GHz - 2.45GHz

R E - Power-2.45GHz-2.5GHz

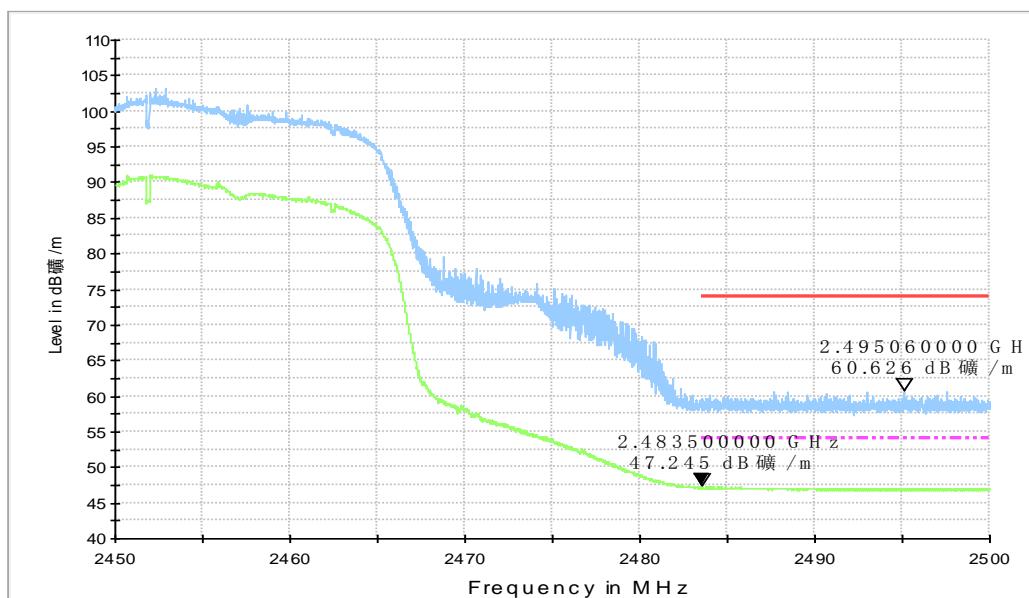


Fig.A.6.2.10 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch10, 2.45 GHz - 2.50GHz

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.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 Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion	
		With charger			
		802.11b	Idle		
0.15 to 0.5	66 to 56	Fig.A.7.1 Fig.A.7.3 Fig.A.7.4	Fig.A.7.2	P	
0.5 to 5	56				
5 to 30	60				

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

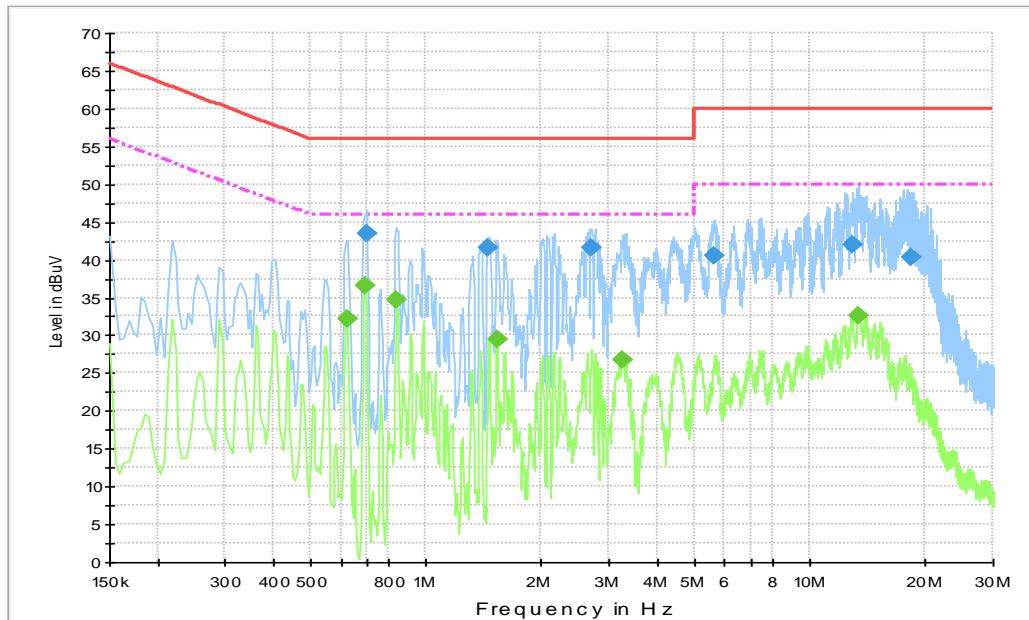
WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion	
		With charger			
		802.11b	Idle		
0.15 to 0.5	56 to 46	Fig.A.7.1 Fig.A.7.3 Fig.A.7.4	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:

Traffic with AE3:

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)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.699000	43.6	10000	9.000	GND	L1	10.3	12.4	56.0
1.450500	41.6	10000	9.000	GND	L1	10.4	14.4	56.0
2.683500	41.7	10000	9.000	GND	L1	10.5	14.3	56.0
5.658000	40.4	10000	9.000	GND	L1	10.6	19.6	60.0
12.898500	42.0	10000	9.000	GND	L1	11.0	18.0	60.0
18.451500	40.3	10000	9.000	GND	L1	11.3	19.7	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.622500	32.1	10000.	9.000	GND	L1	10.3	13.9	46.0
0.694500	36.6	10000.	9.000	GND	L1	10.3	9.4	46.0
0.838500	34.7	10000.	9.000	GND	L1	10.4	11.3	46.0
1.531500	29.4	10000.	9.000	GND	L1	10.4	16.6	46.0
3.259500	26.8	10000.	9.000	GND	L1	10.5	19.2	46.0
13.411500	32.6	10000.	9.000	GND	L1	11.0	17.4	50.0