

Fig.A.6.1.87 Conducted Spurious Emission (802.11n-HT20, Ch1, 15 GHz-20 GHz)

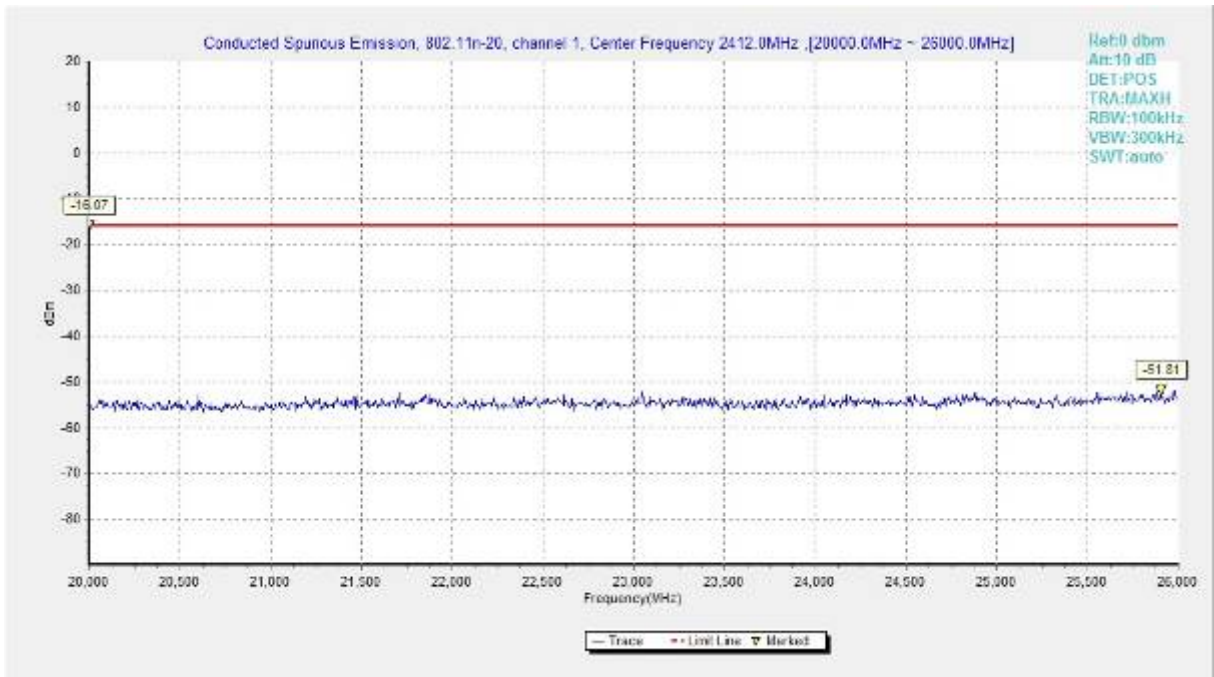


Fig.A.6.1.88 Conducted Spurious Emission (802.11n-HT20, Ch1, 20 GHz-26 GHz)

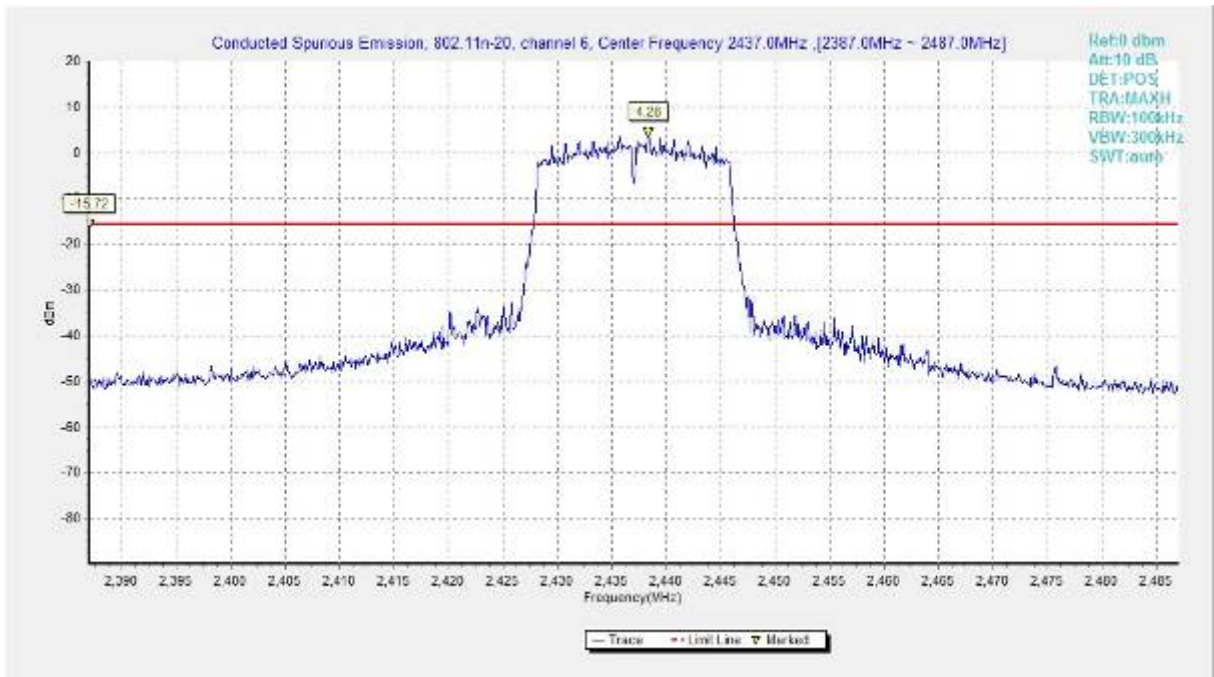


Fig.A.6.1.89 Conducted Spurious Emission (802.11n-HT20, Ch6, Center Frequency)

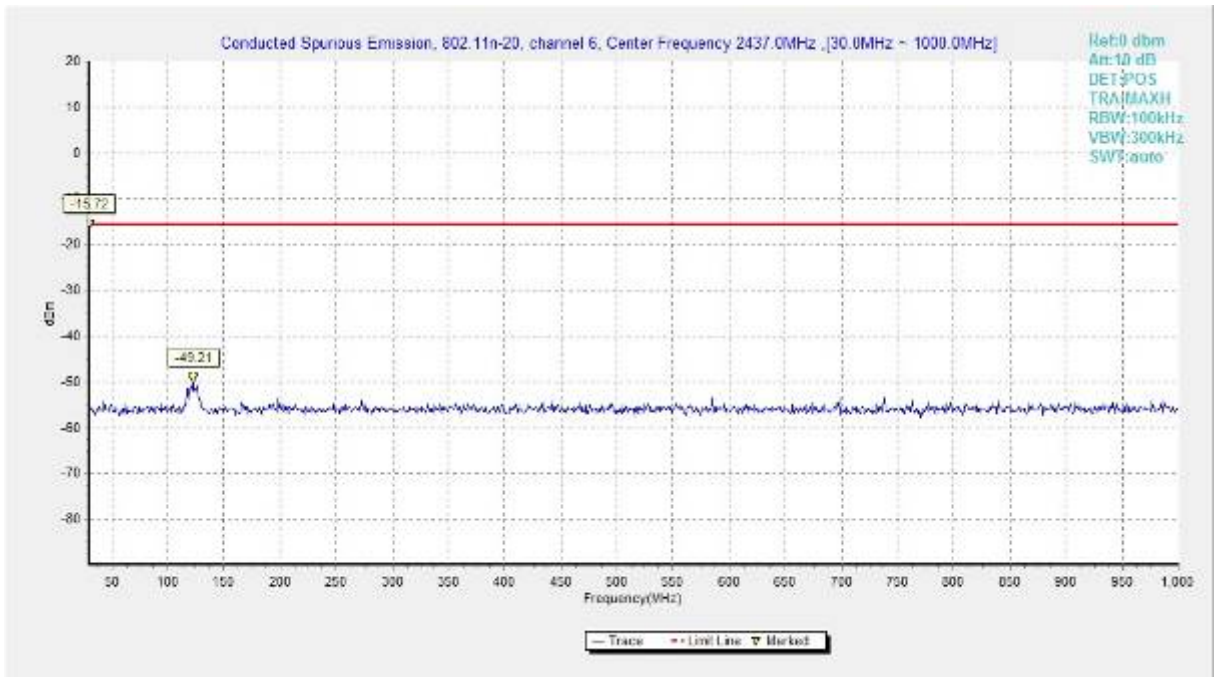


Fig.A.6.1.90 Conducted Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)

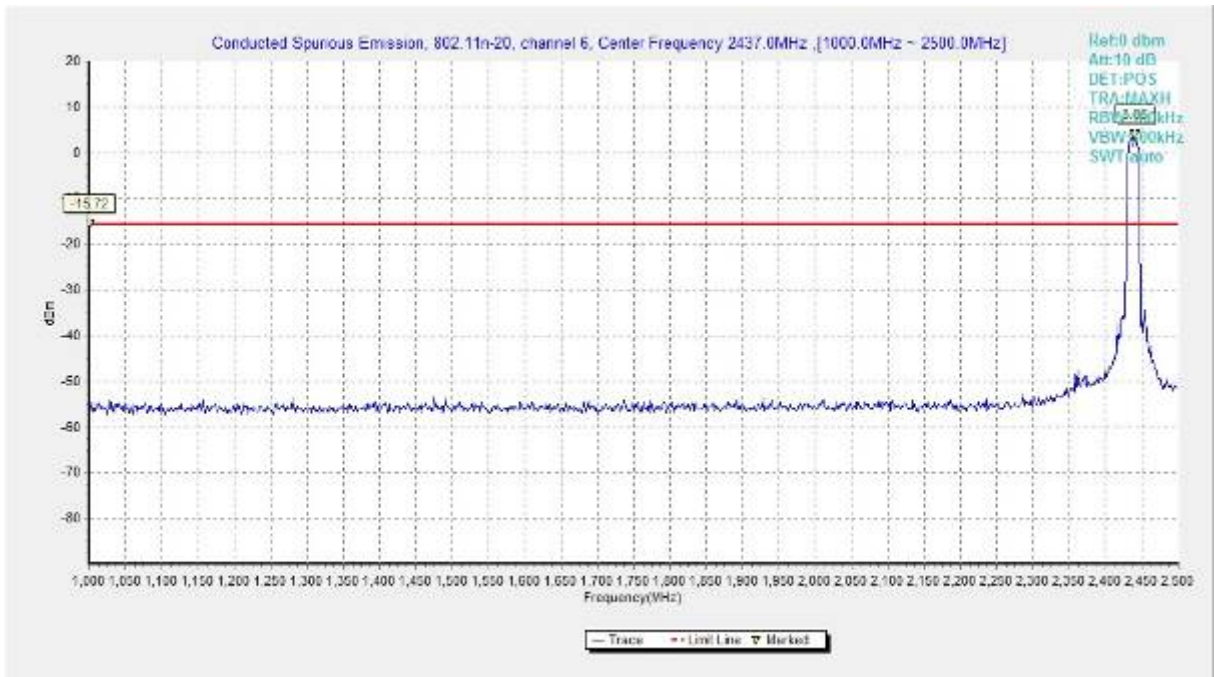


Fig.A.6.1.91 Conducted Spurious Emission (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)

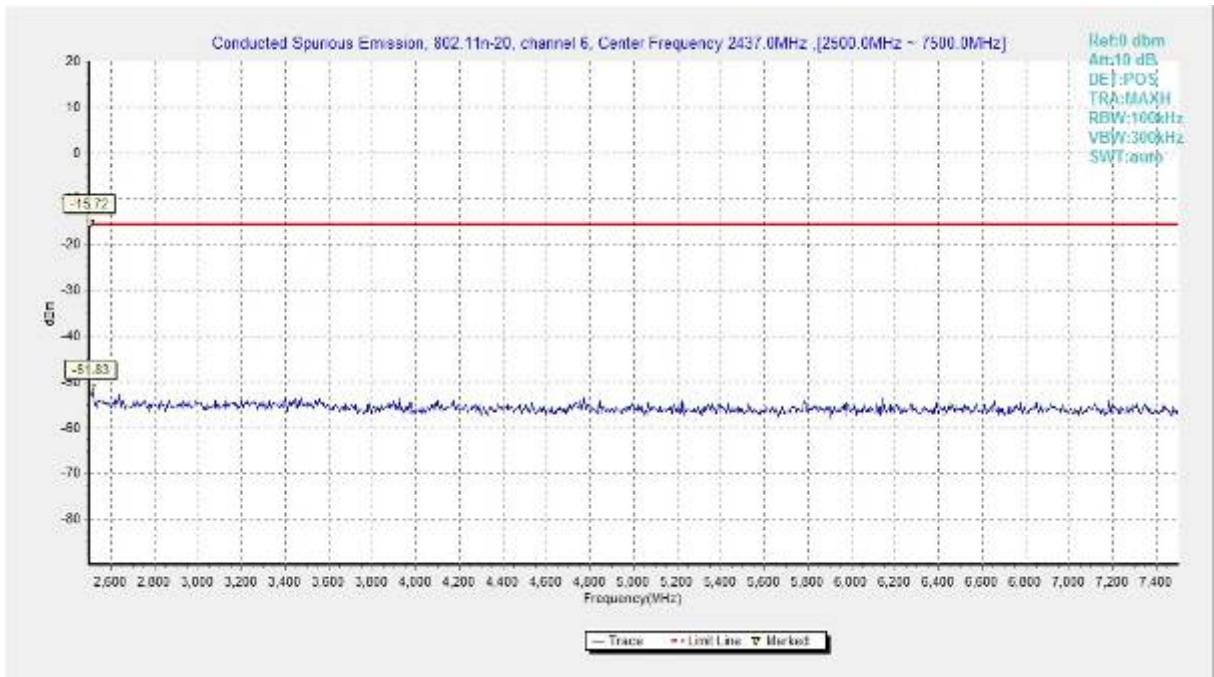


Fig.A.6.1.92 Conducted Spurious Emission (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)

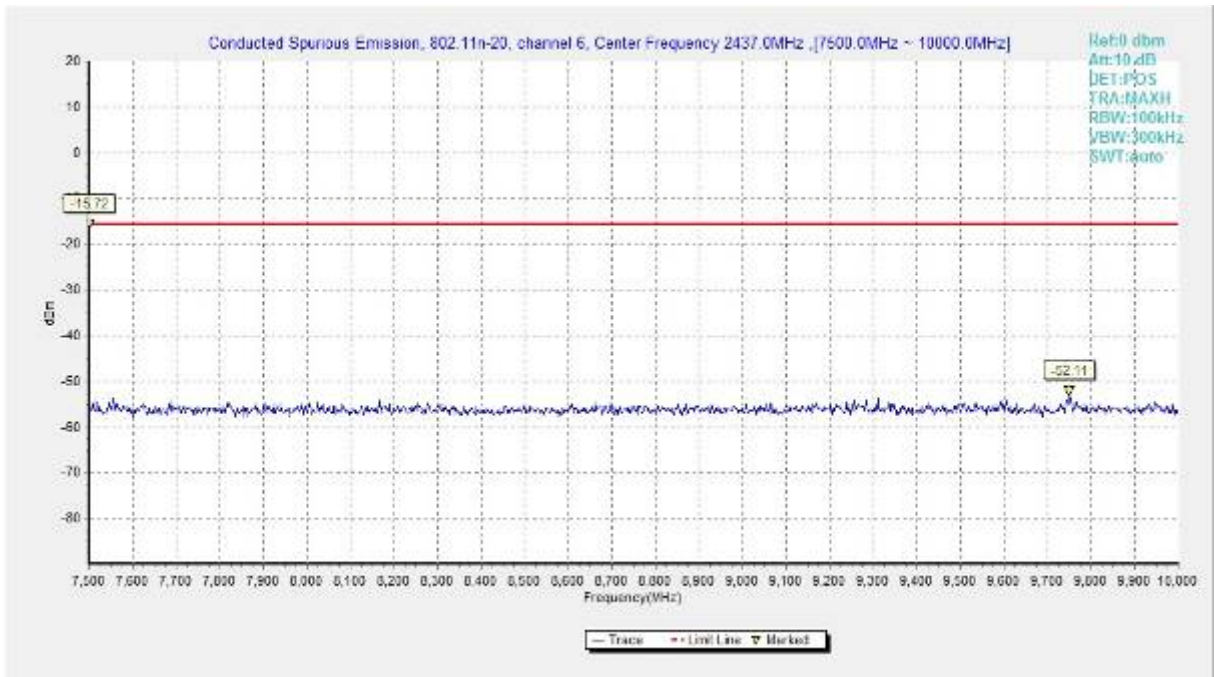


Fig.A.6.1.93 Conducted Spurious Emission (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)

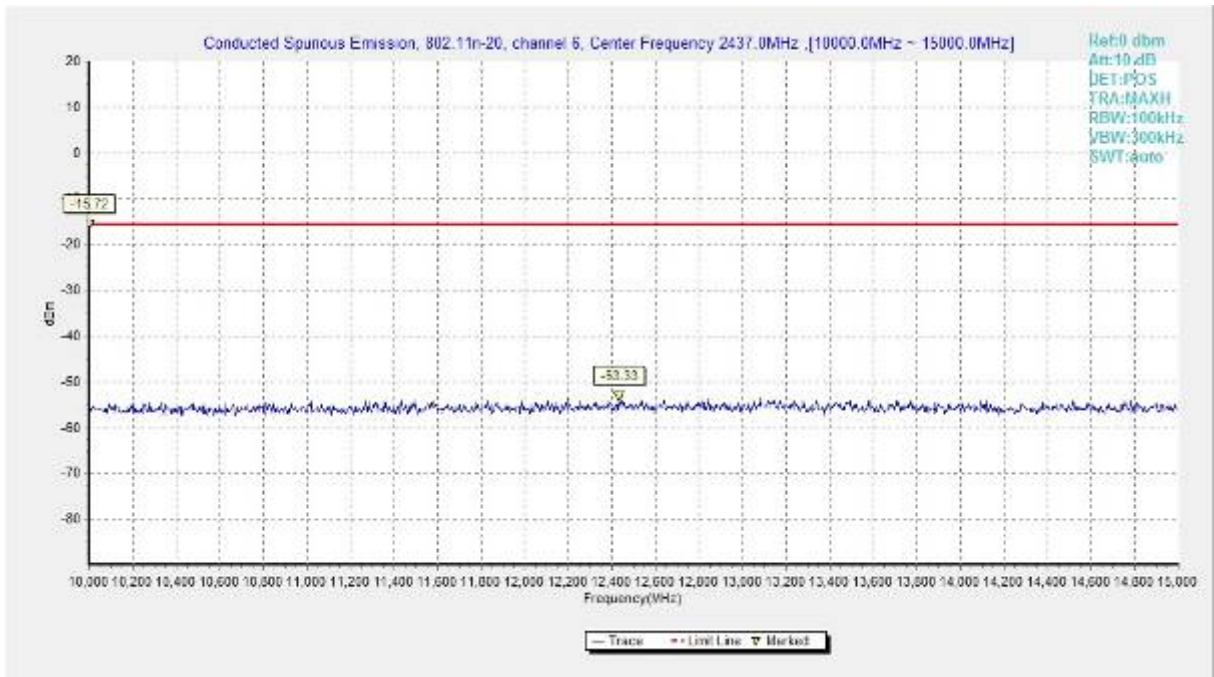


Fig.A.6.1.94 Conducted Spurious Emission (802.11n-HT20, Ch6, 10 GHz-15 GHz)

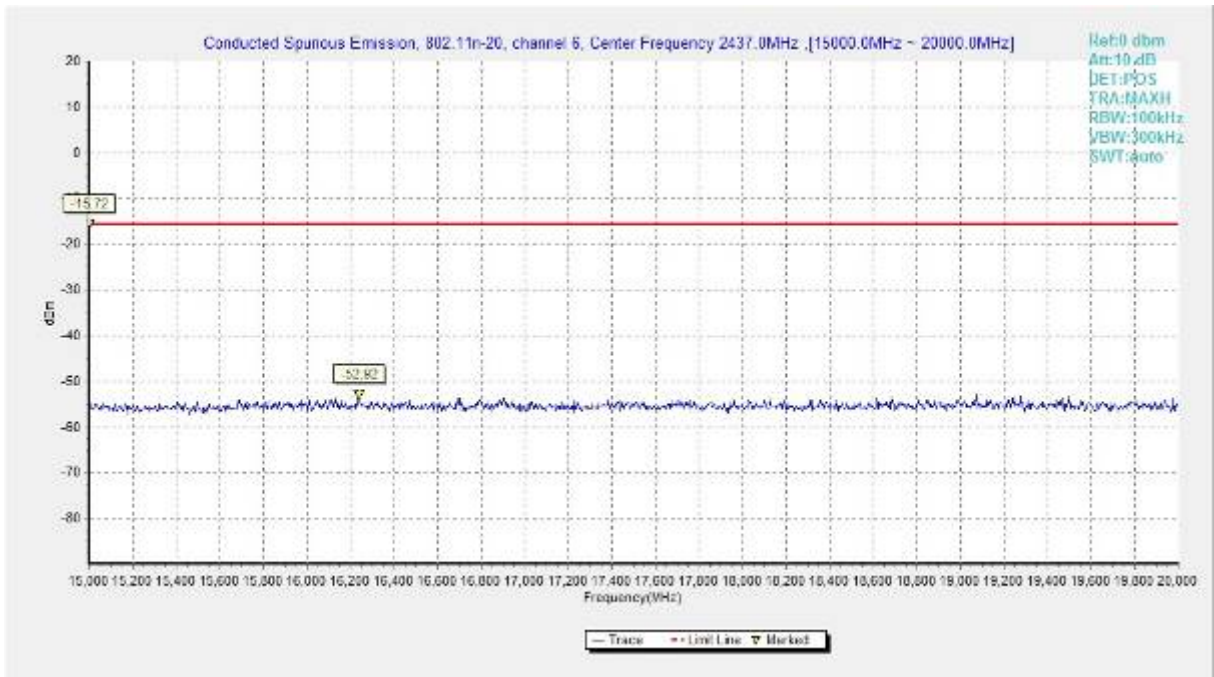


Fig.A.6.1.95 Conducted Spurious Emission (802.11n-HT20, Ch6, 15 GHz-20 GHz)

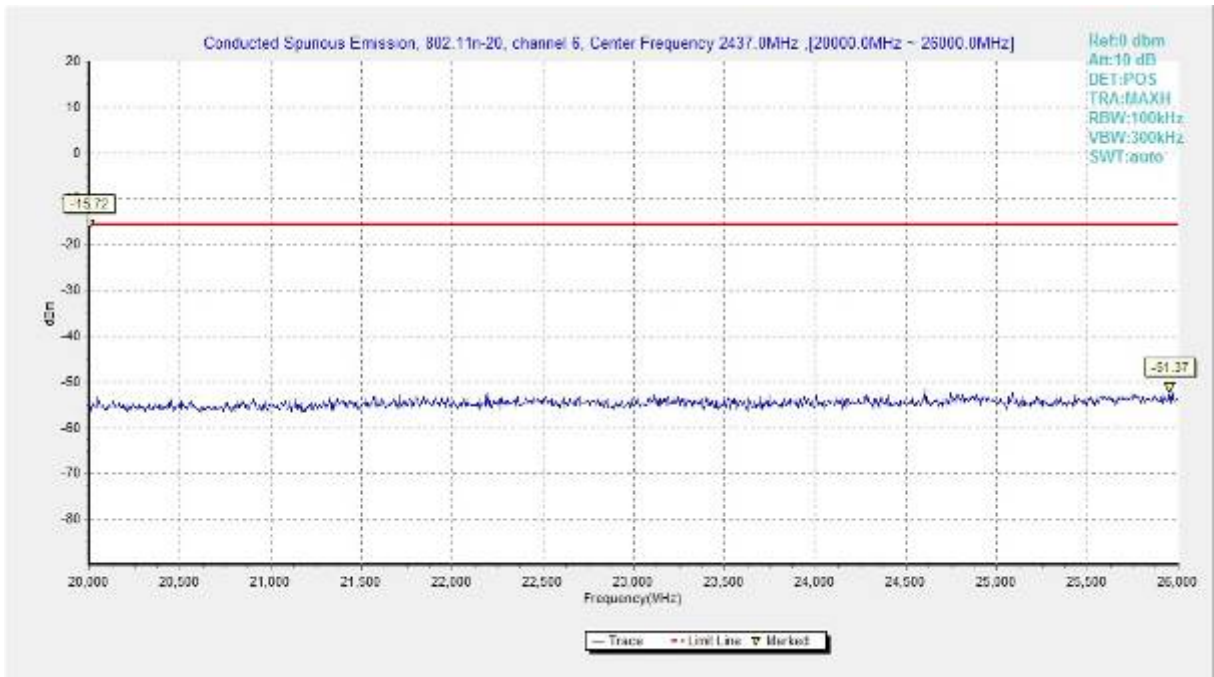


Fig.A.6.1.96 Conducted Spurious Emission (802.11n-HT20, Ch6, 20 GHz-26 GHz)

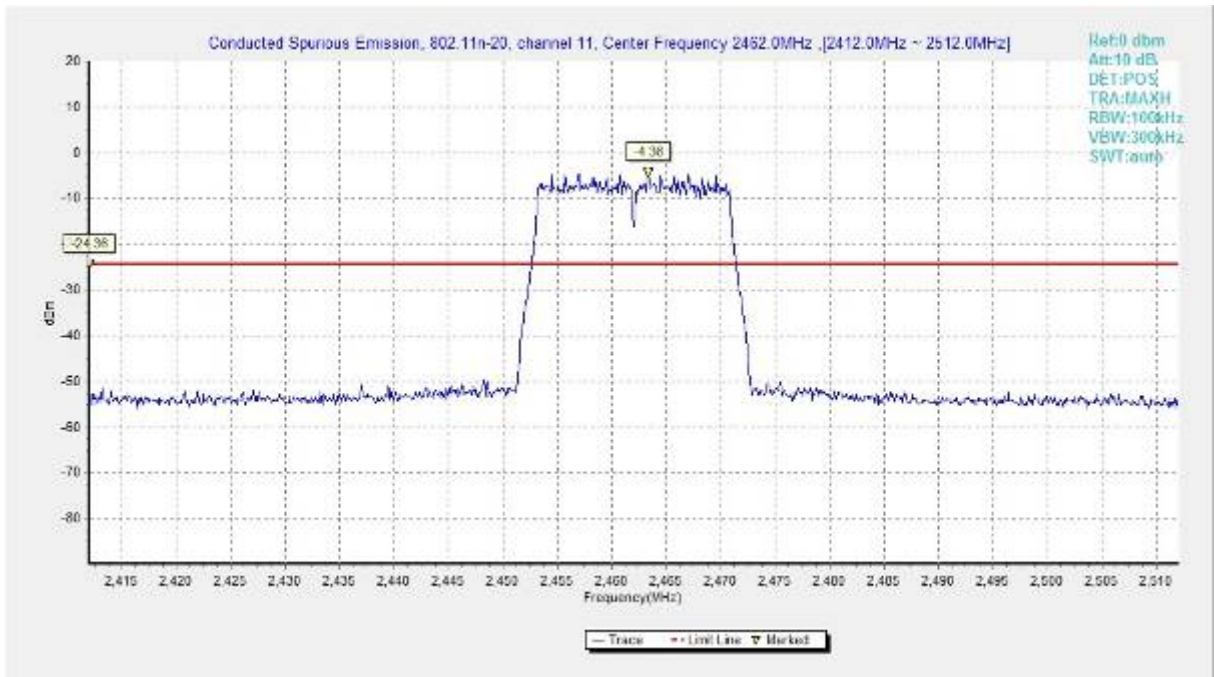


Fig.A.6.1.97 Conducted Spurious Emission (802.11n-HT20, Ch11, Center Frequency)

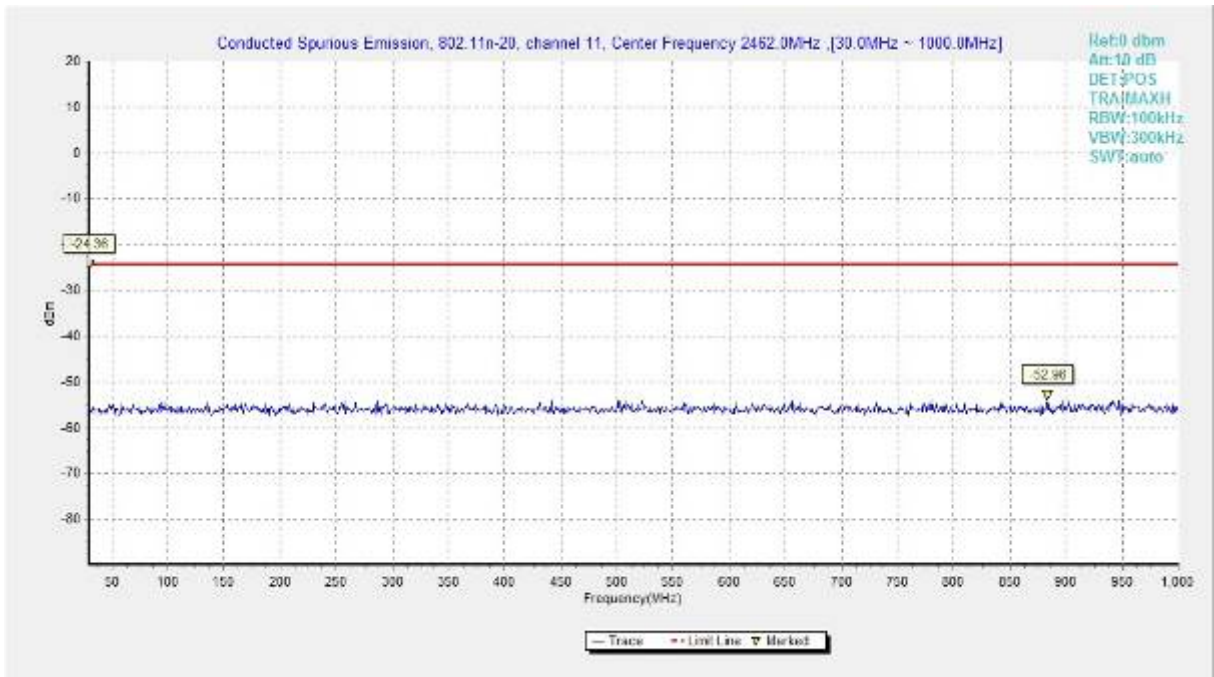


Fig.A.6.1.98 Conducted Spurious Emission (802.11n-HT20, Ch11, 30 MHz-1 GHz)

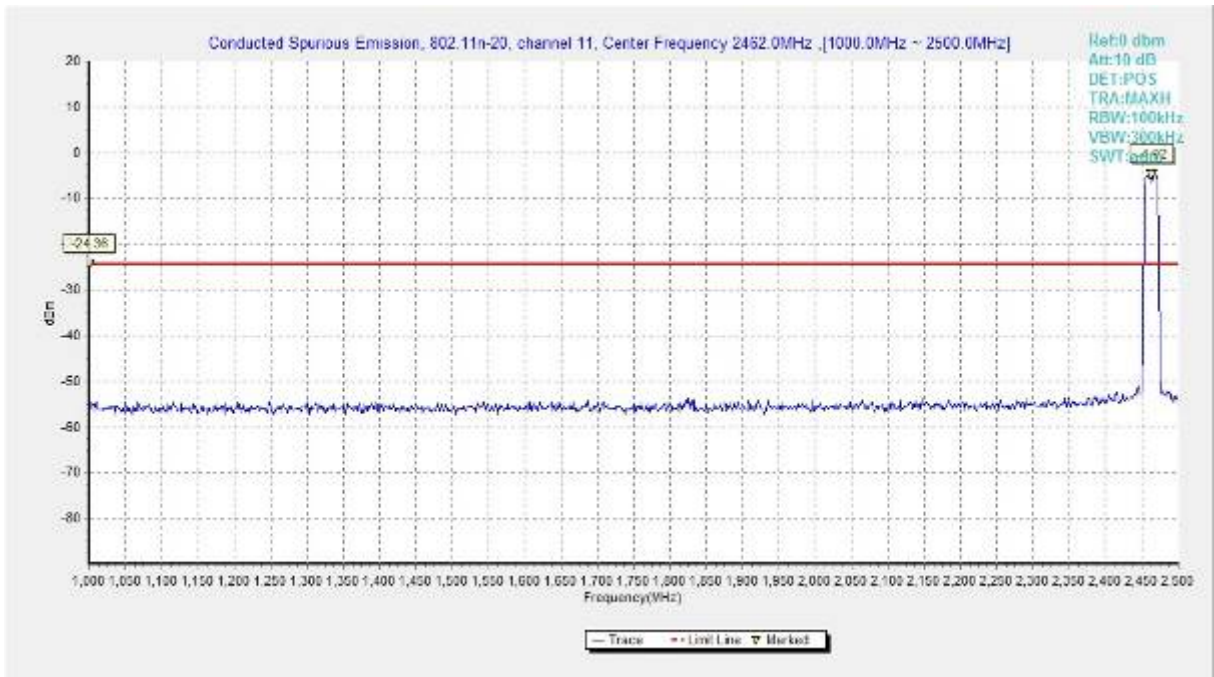


Fig.A.6.1.99 Conducted Spurious Emission (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)

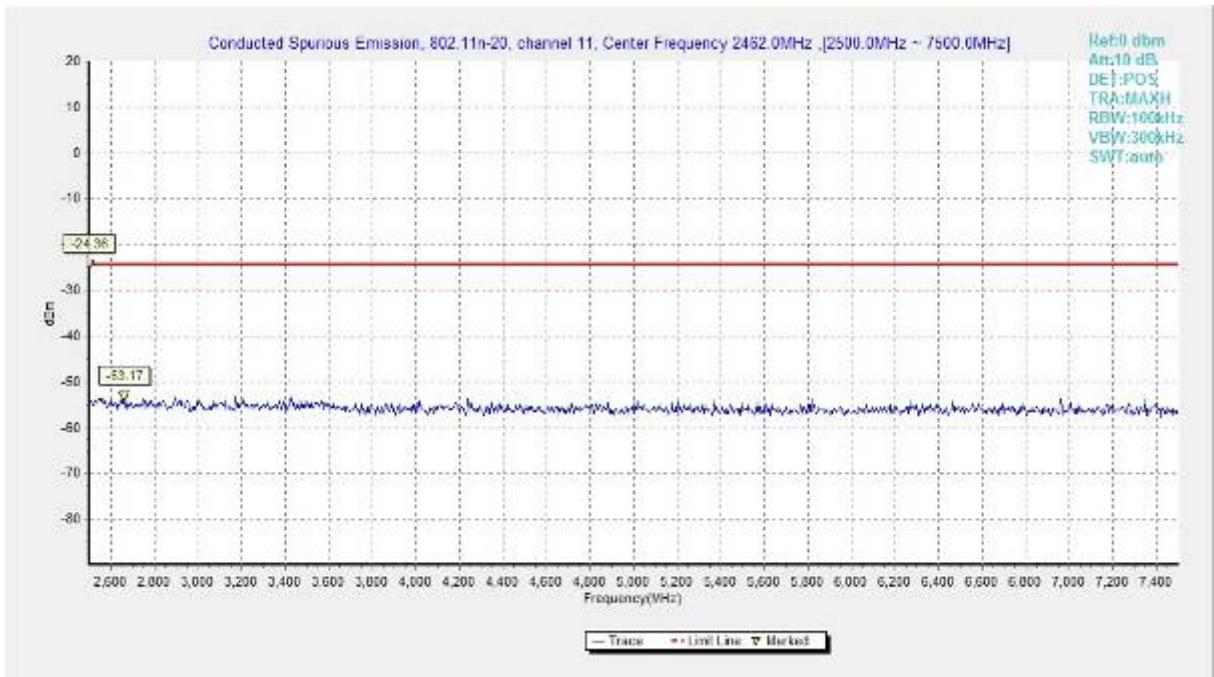


Fig.A.6.1.100 Conducted Spurious Emission (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)

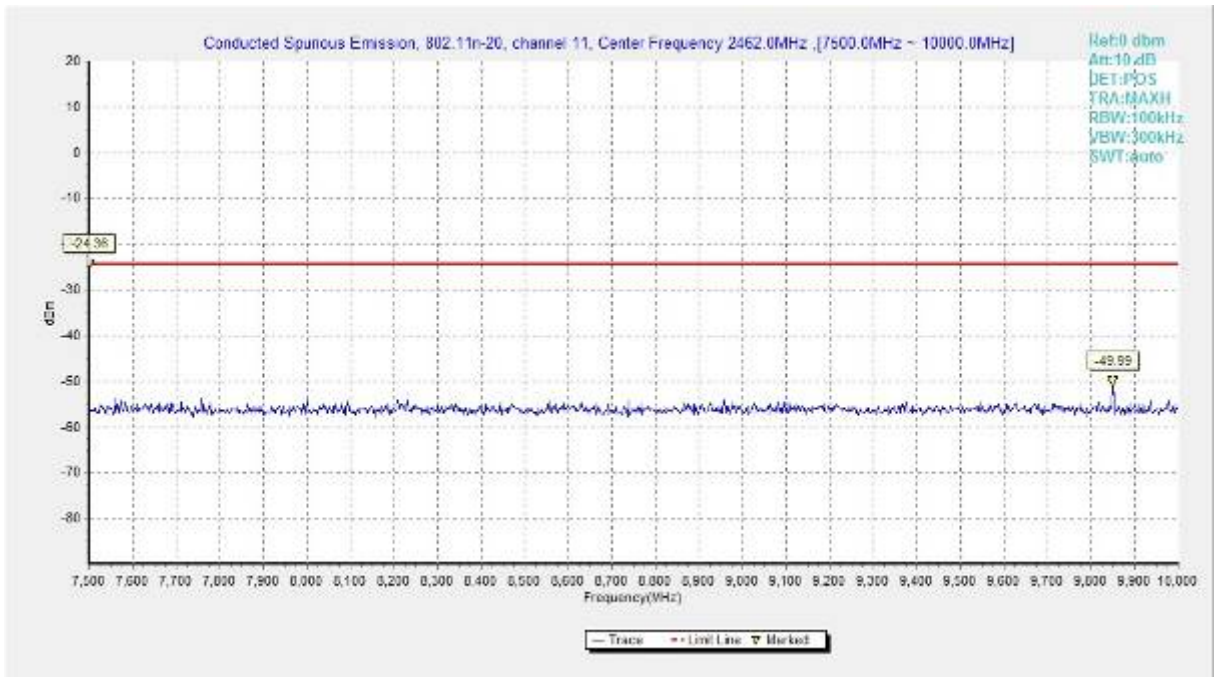


Fig.A.6.1.101 Conducted Spurious Emission (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)

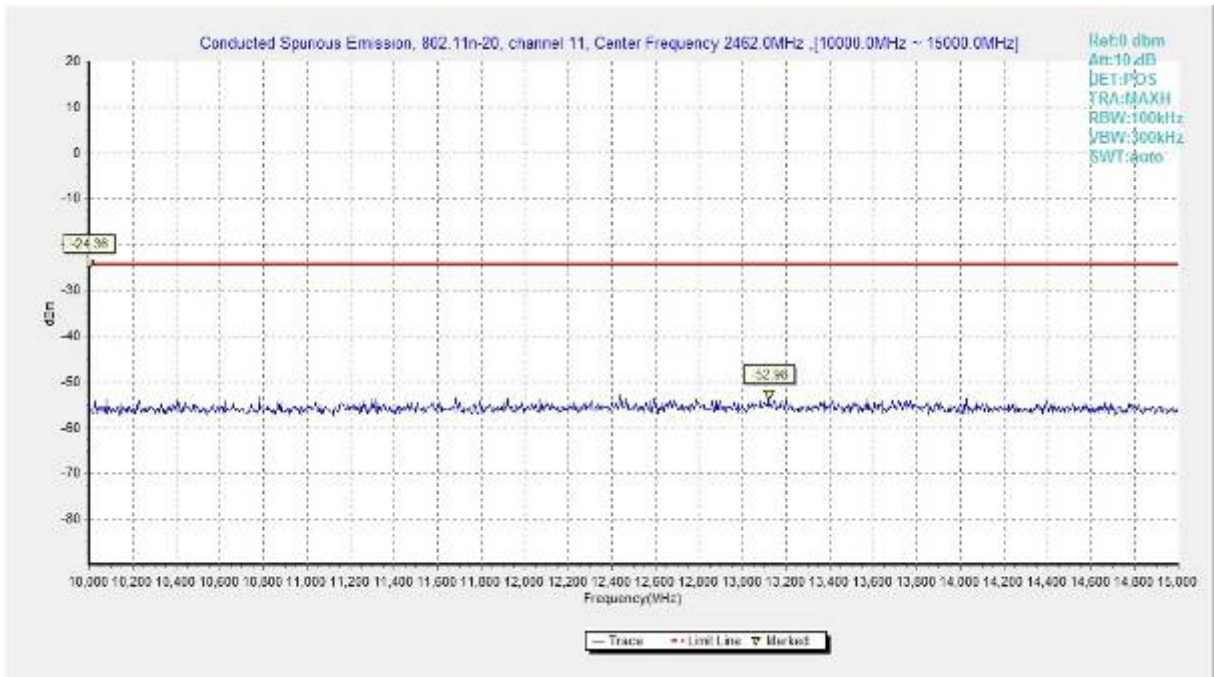


Fig.A.6.1.102 Conducted Spurious Emission (802.11n-HT20, Ch11, 10 GHz-15 GHz)

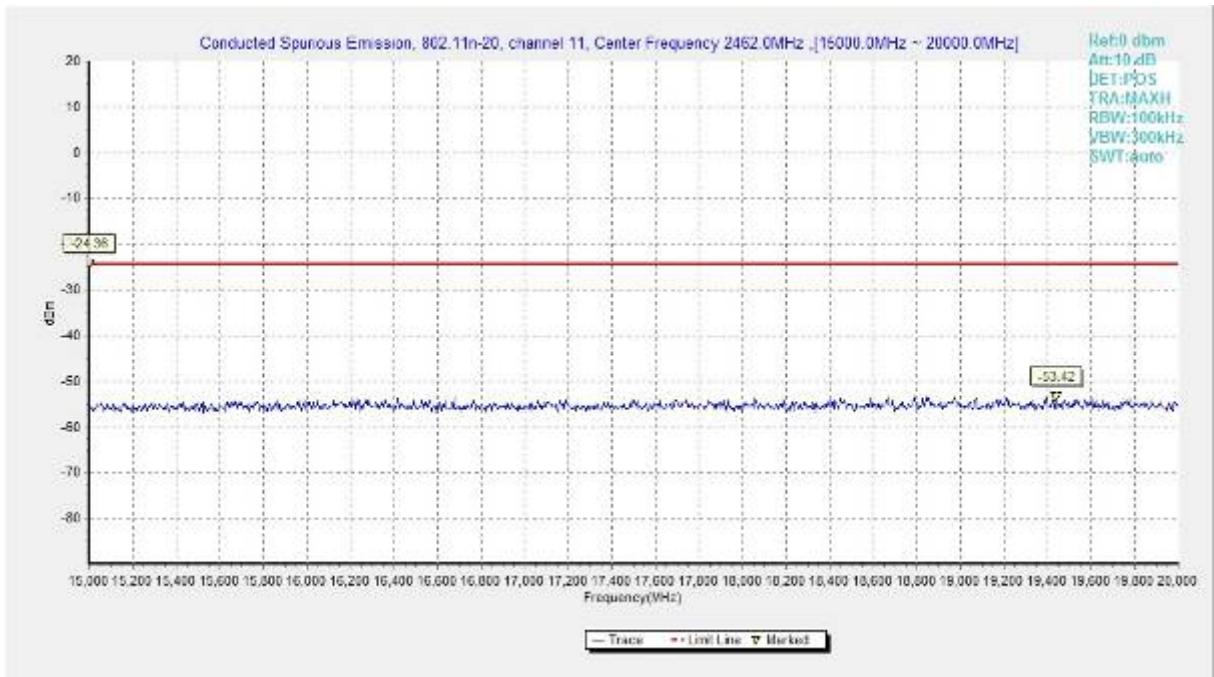


Fig.A.6.1.103 Conducted Spurious Emission (802.11n-HT20, Ch11, 15 GHz-20 GHz)

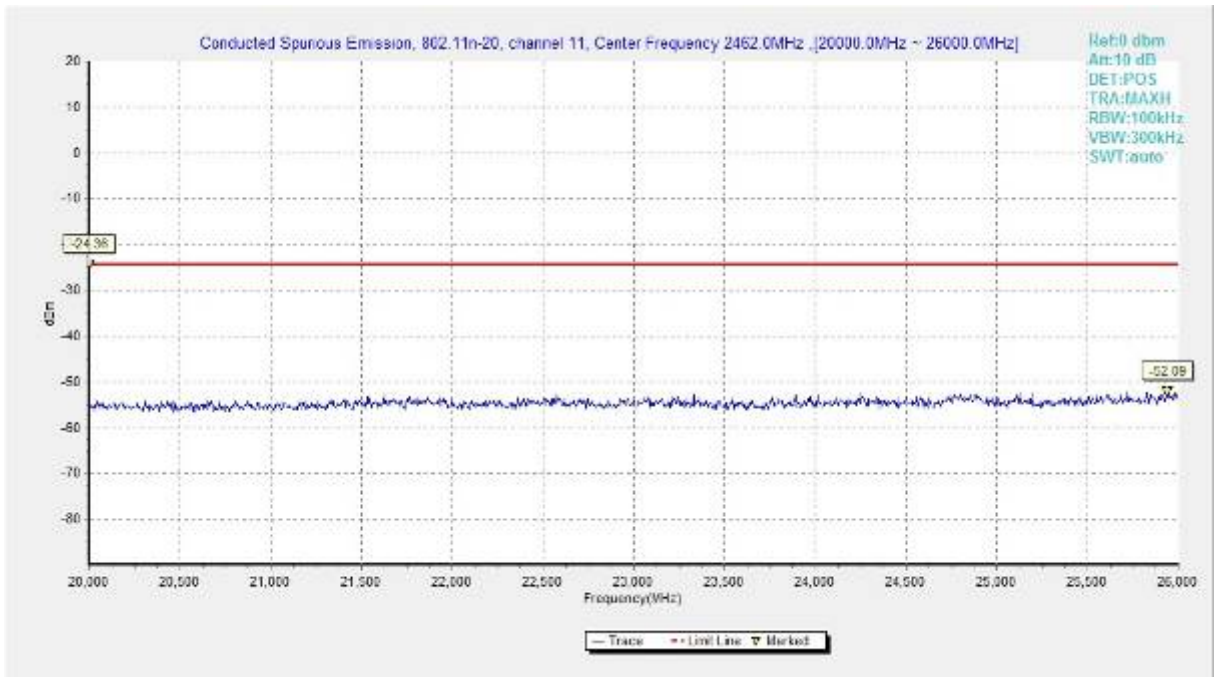


Fig.A.6.1.104 Conducted Spurious Emission (802.11n-HT20, Ch11, 20 GHz-26 GHz)

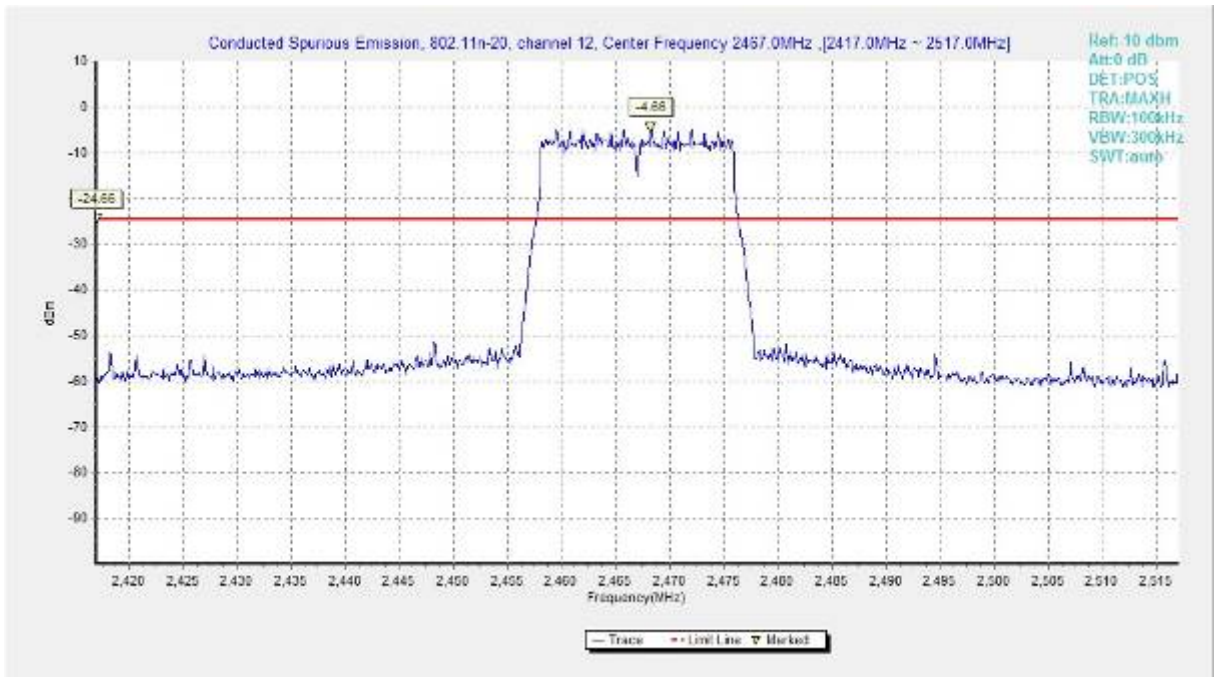


Fig.A.6.1.105 Conducted Spurious Emission (802.11 n-HT20, Ch12, Center Frequency)

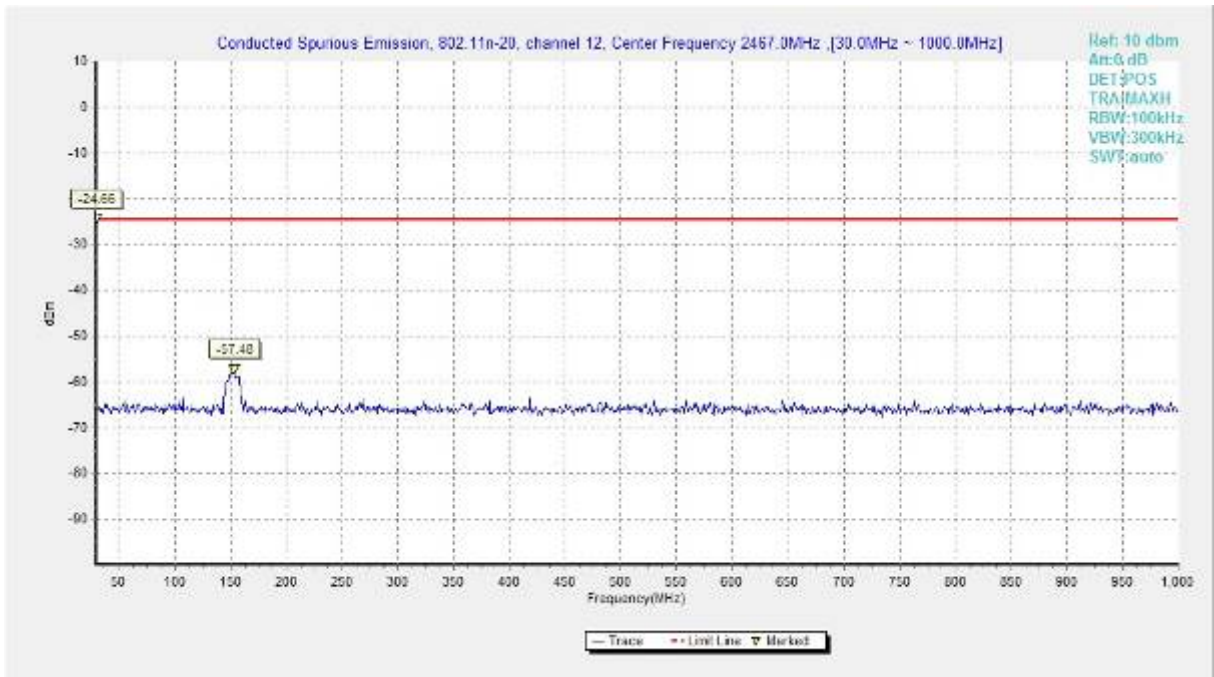


Fig.A.6.1.106 Conducted Spurious Emission (802.11 n-HT20, Ch12, 30 MHz-1 GHz)

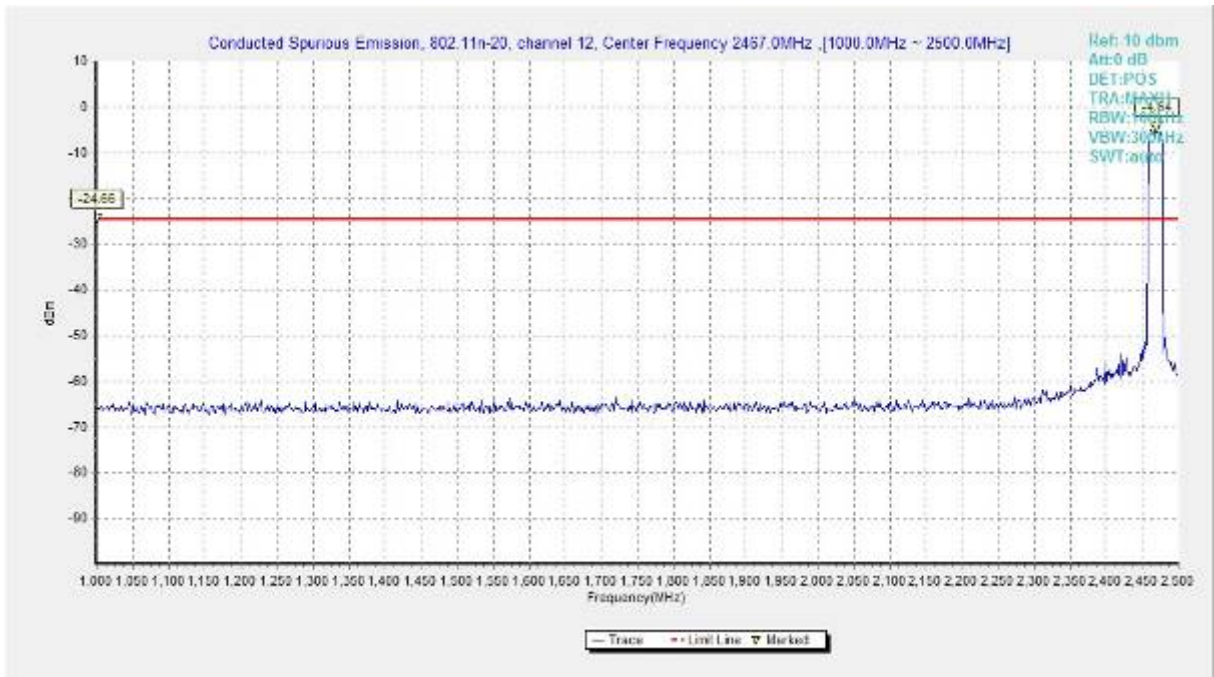


Fig.A.6.1.107 Conducted Spurious Emission (802.11 n-HT20, Ch12, 1 GHz-2.5 GHz)

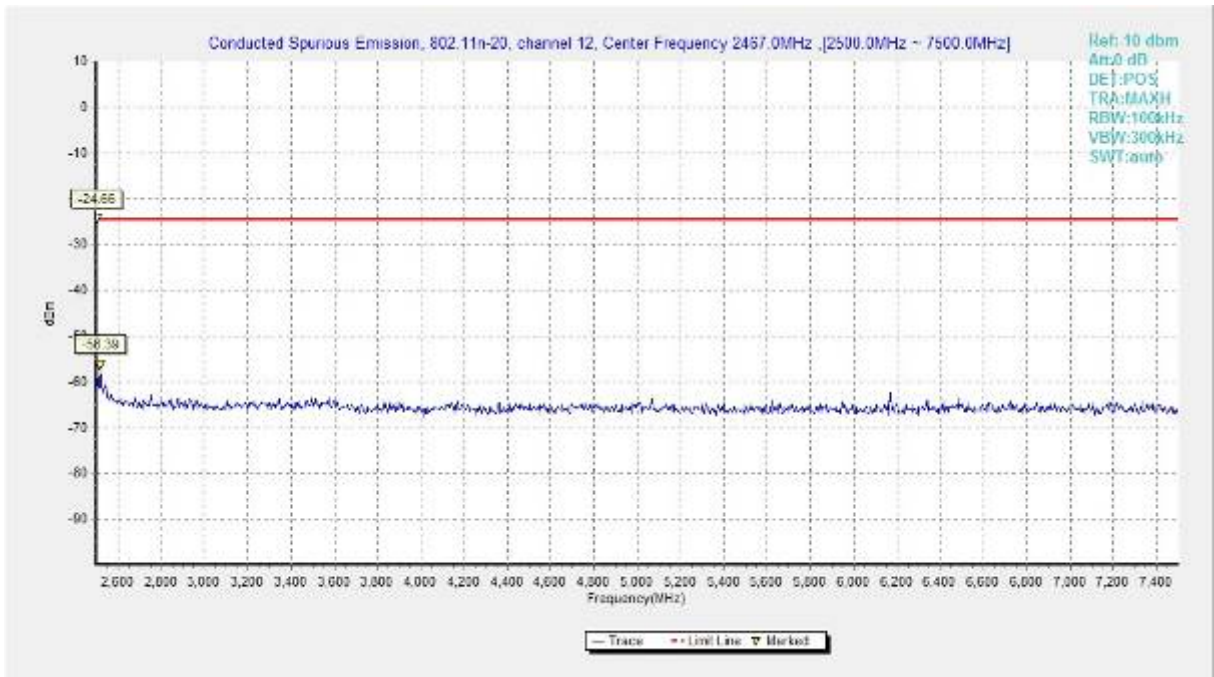


Fig.A.6.1.108 Conducted Spurious Emission (802.11 n-HT20, Ch12, 2.5 GHz-7.5 GHz)

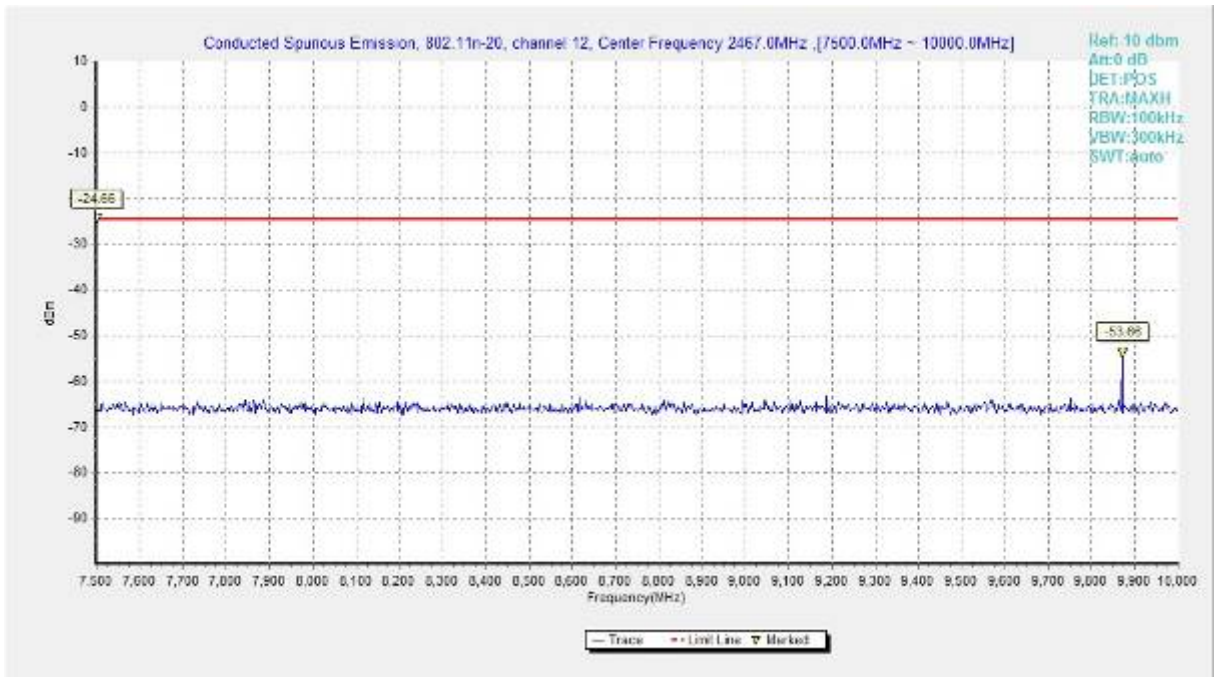


Fig.A.6.1.109 Conducted Spurious Emission (802.11 n-HT20, Ch12, 7.5 GHz-10 GHz)

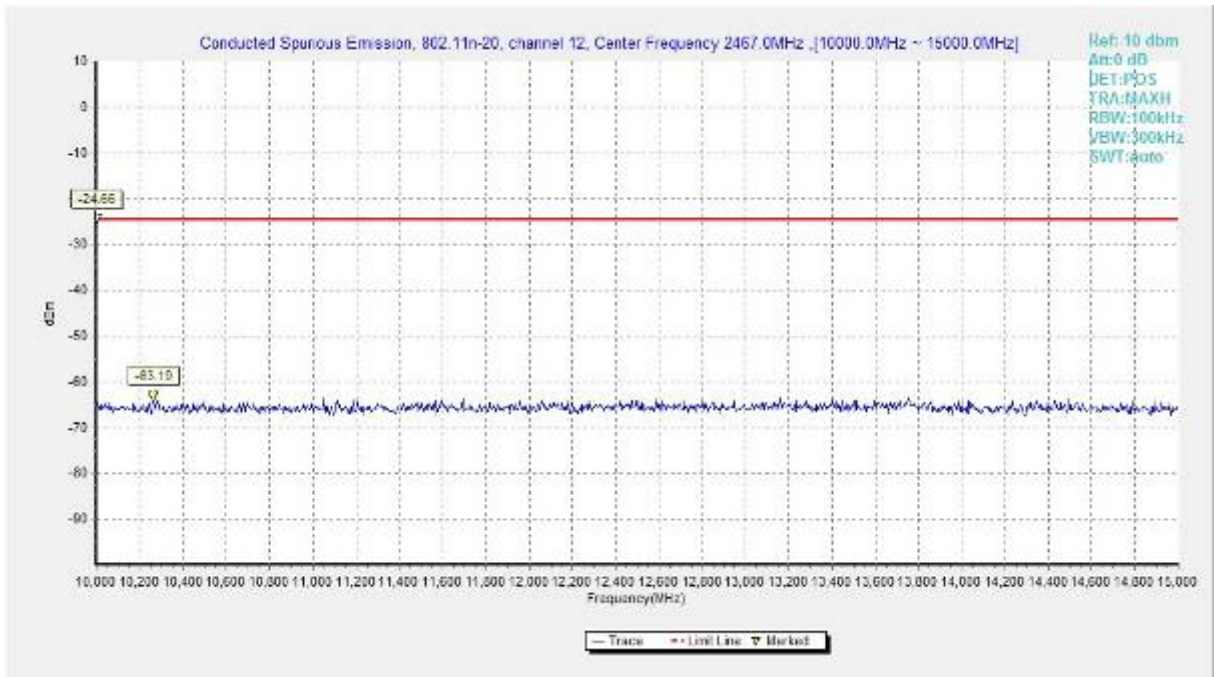


Fig.A.6.1.110 Conducted Spurious Emission (802.11 n-HT20, Ch12, 10 GHz-15 GHz)

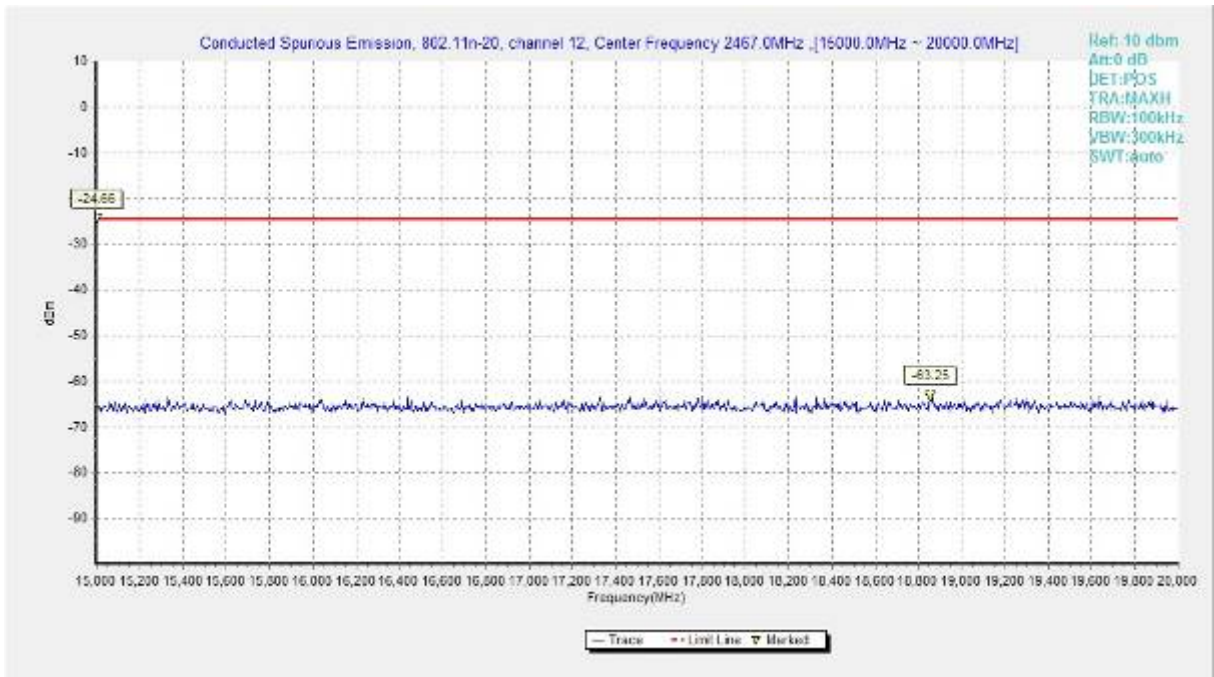


Fig.A.6.1.111 Conducted Spurious Emission (802.11 n-HT20, Ch12, 15 GHz-20 GHz)

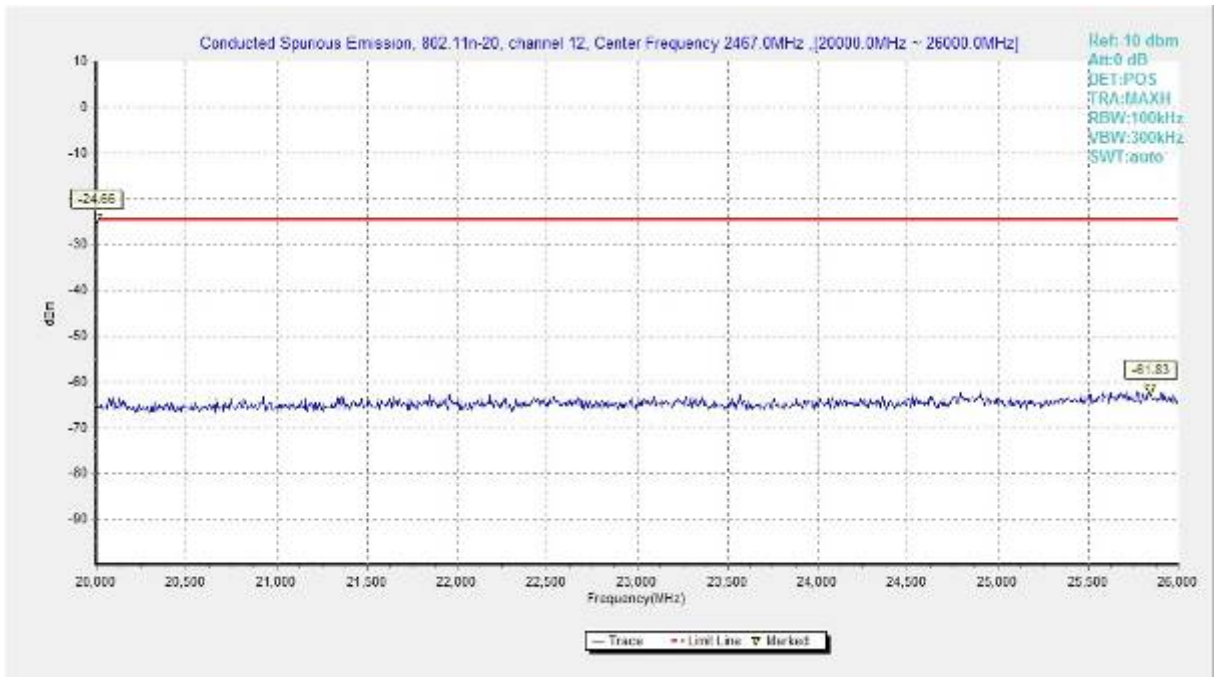


Fig.A.6.1.112 Conducted Spurious Emission (802.11 n-HT20, Ch12, 20 GHz-26 GHz)

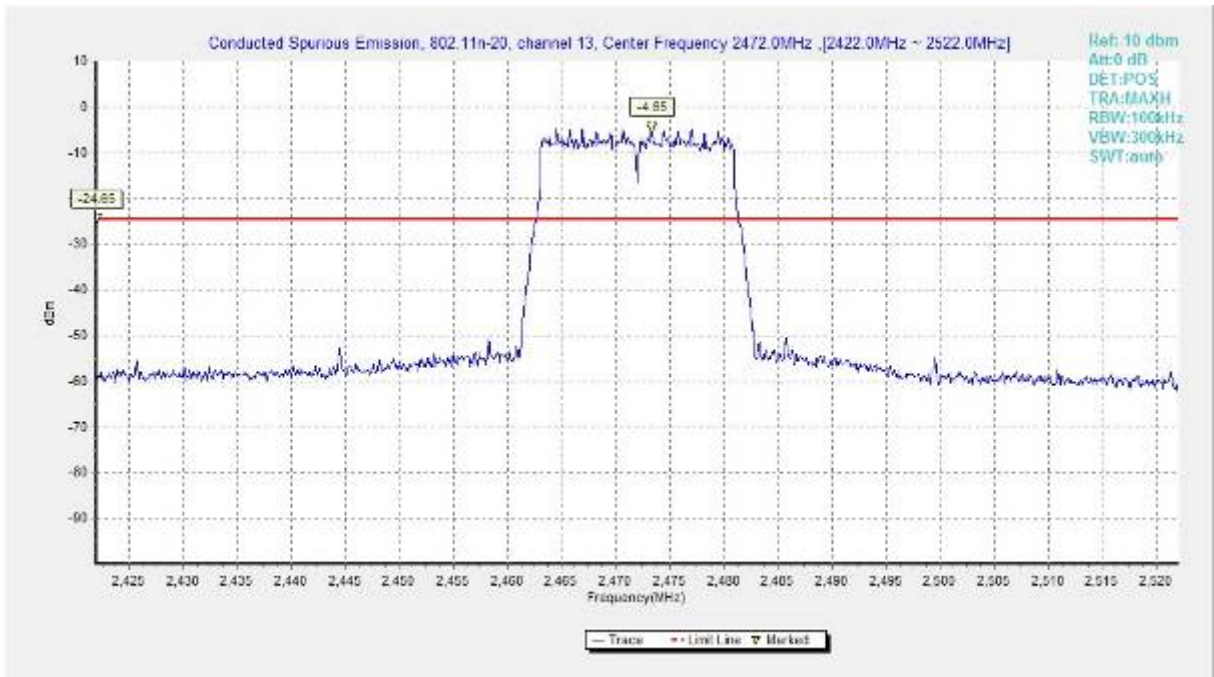


Fig.A.6.1.113 Conducted Spurious Emission (802.11 n-HT20, Ch13, Center Frequency)

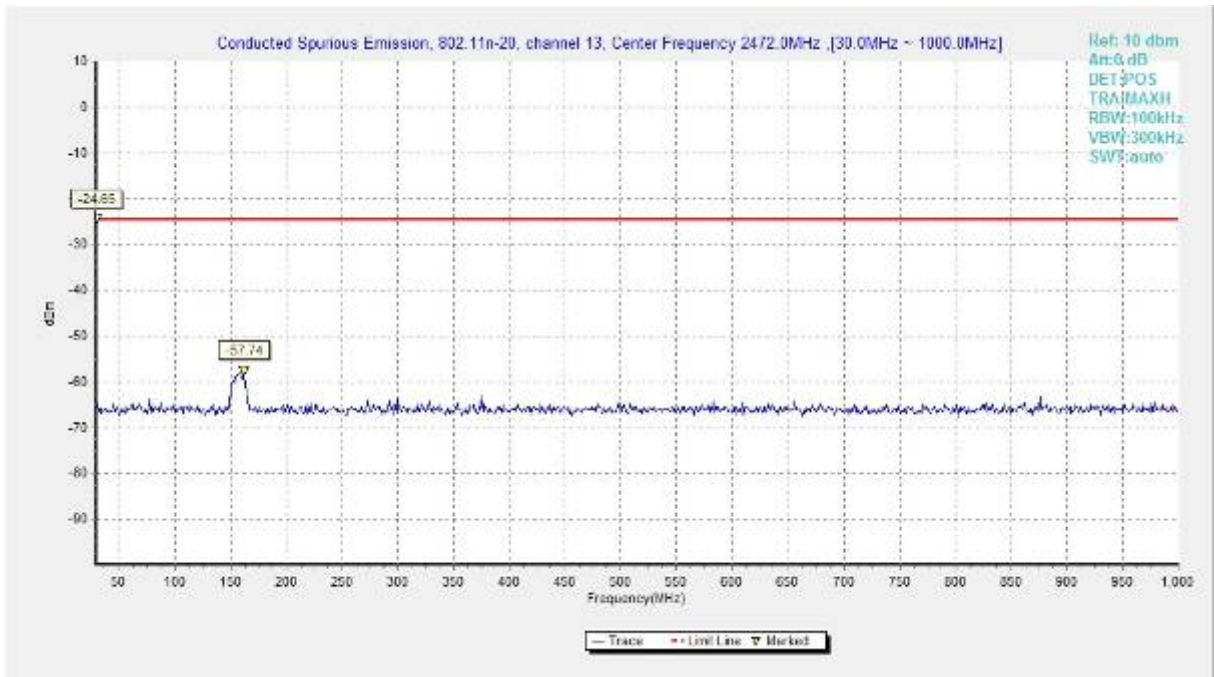


Fig.A.6.1.114 Conducted Spurious Emission (802.11 n-HT20, Ch13, 30 MHz-1 GHz)

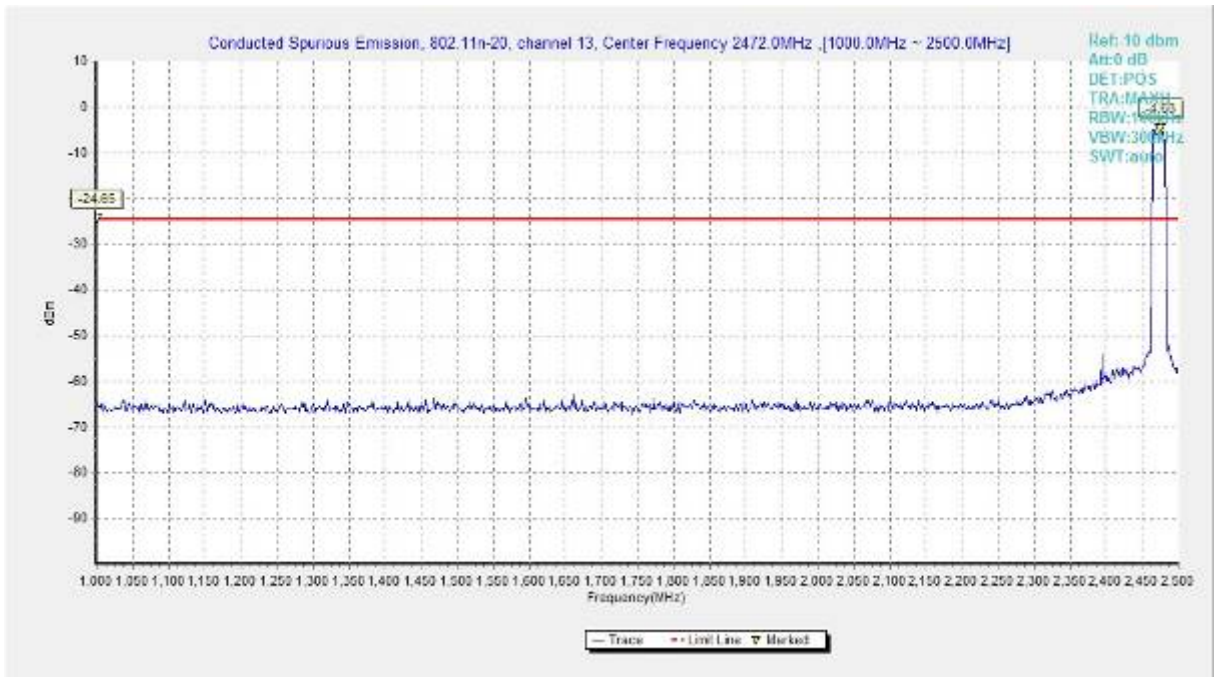


Fig.A.6.1.115 Conducted Spurious Emission (802.11 n-HT20, Ch13, 1 GHz-2.5 GHz)

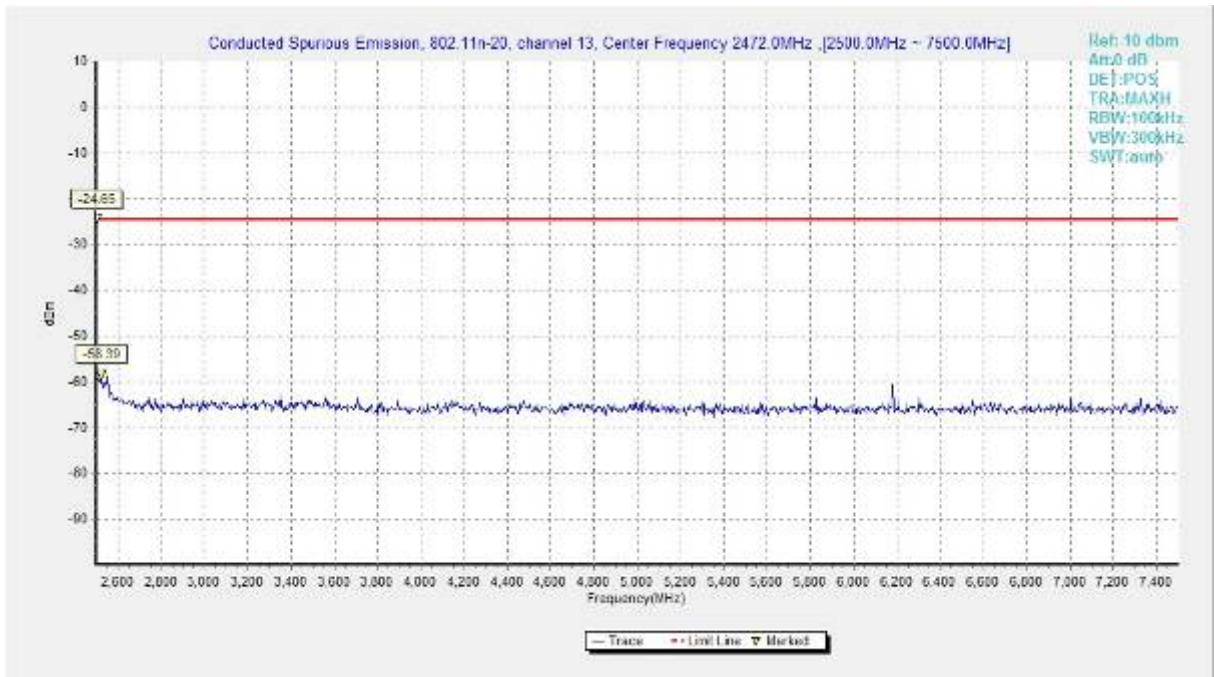


Fig.A.6.1.116 Conducted Spurious Emission (802.11 n-HT20, Ch13, 2.5 GHz-7.5 GHz)

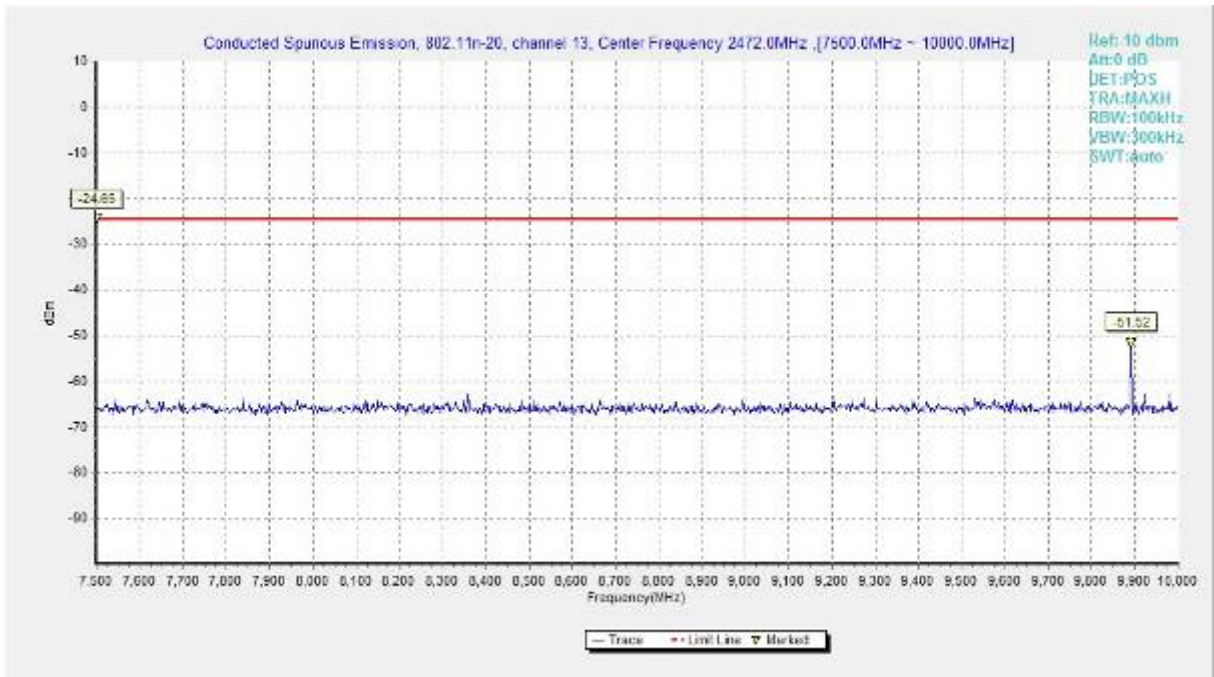


Fig.A.6.1.117 Conducted Spurious Emission (802.11 n-HT20, Ch13, 7.5 GHz-10 GHz)

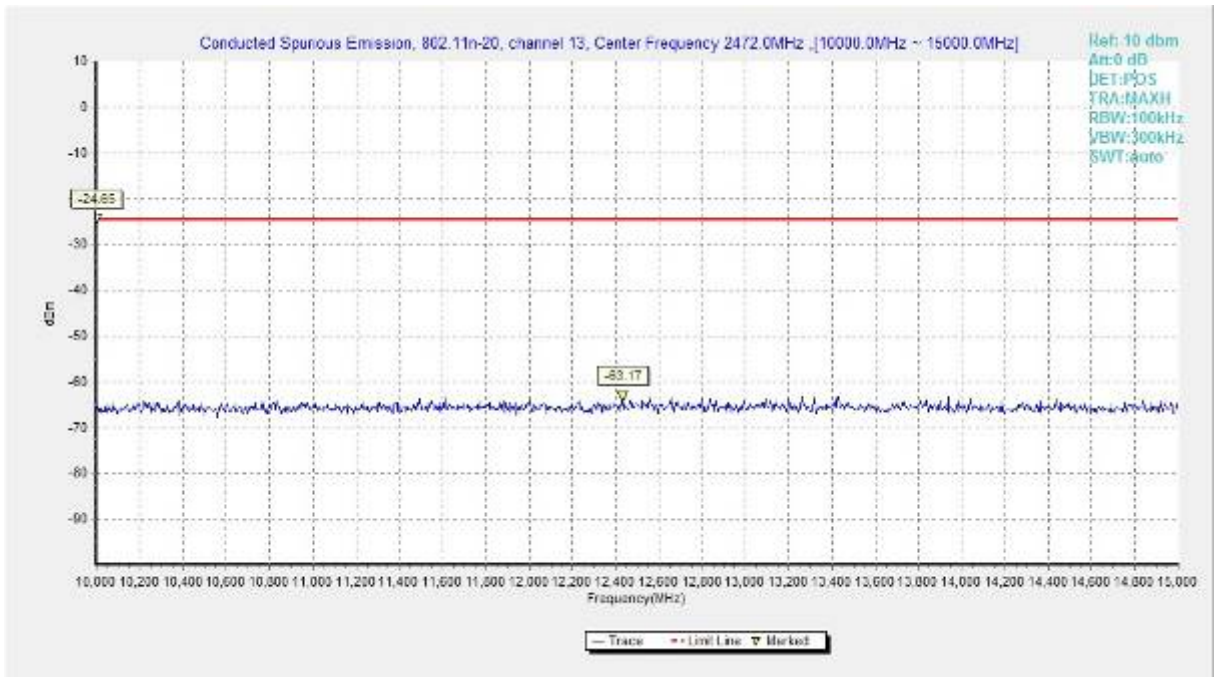


Fig.A.6.1.118 Conducted Spurious Emission (802.11 n-HT20, Ch13, 10 GHz-15 GHz)

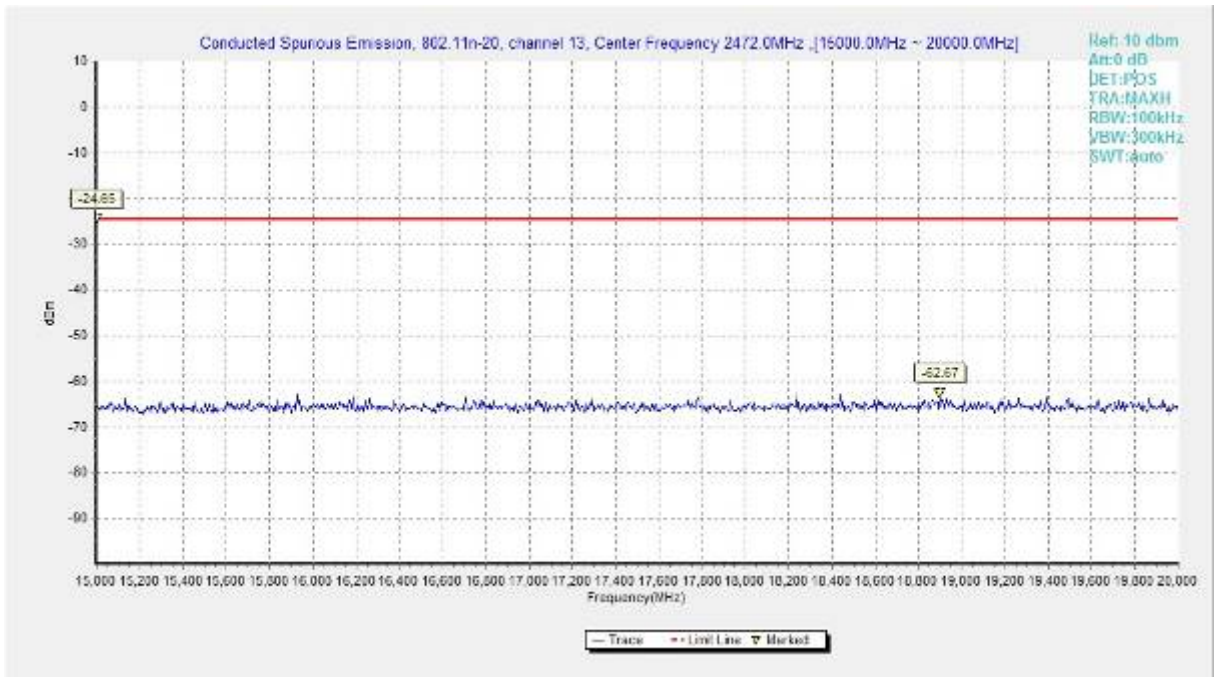


Fig.A.6.1.119 Conducted Spurious Emission (802.11 n-HT20, Ch13, 15 GHz-20 GHz)

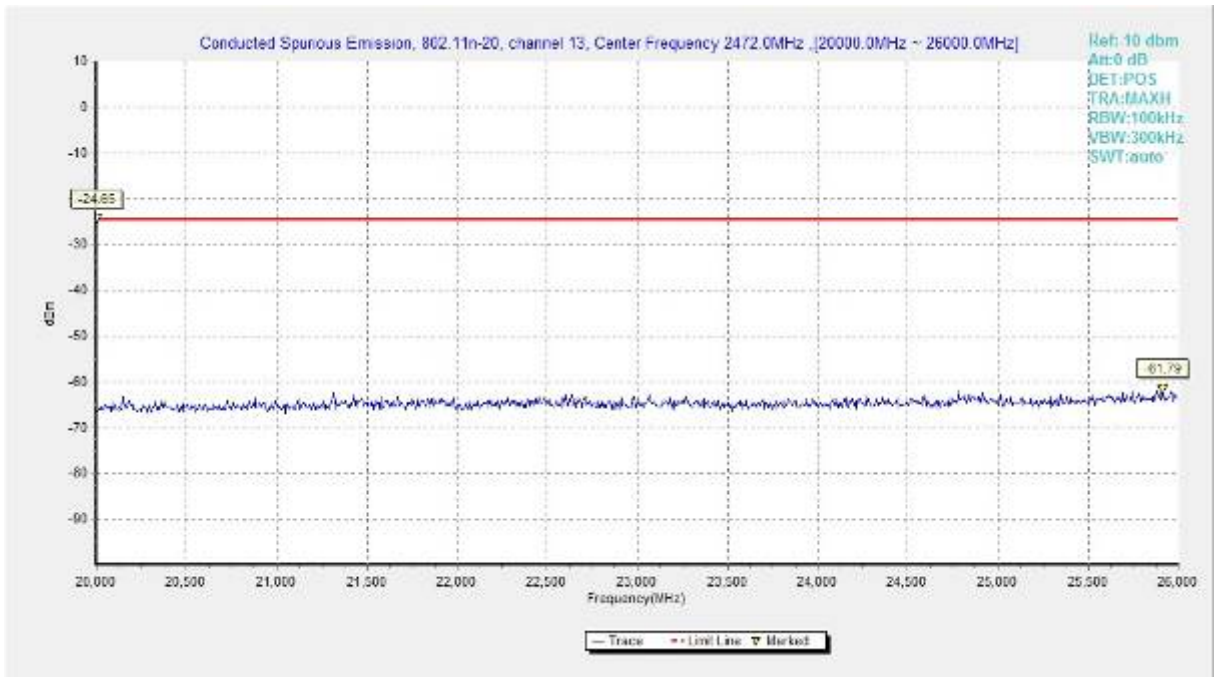


Fig.A.6.1.120 Conducted Spurious Emission (802.11 n-HT20, Ch13, 20 GHz-26 GHz)

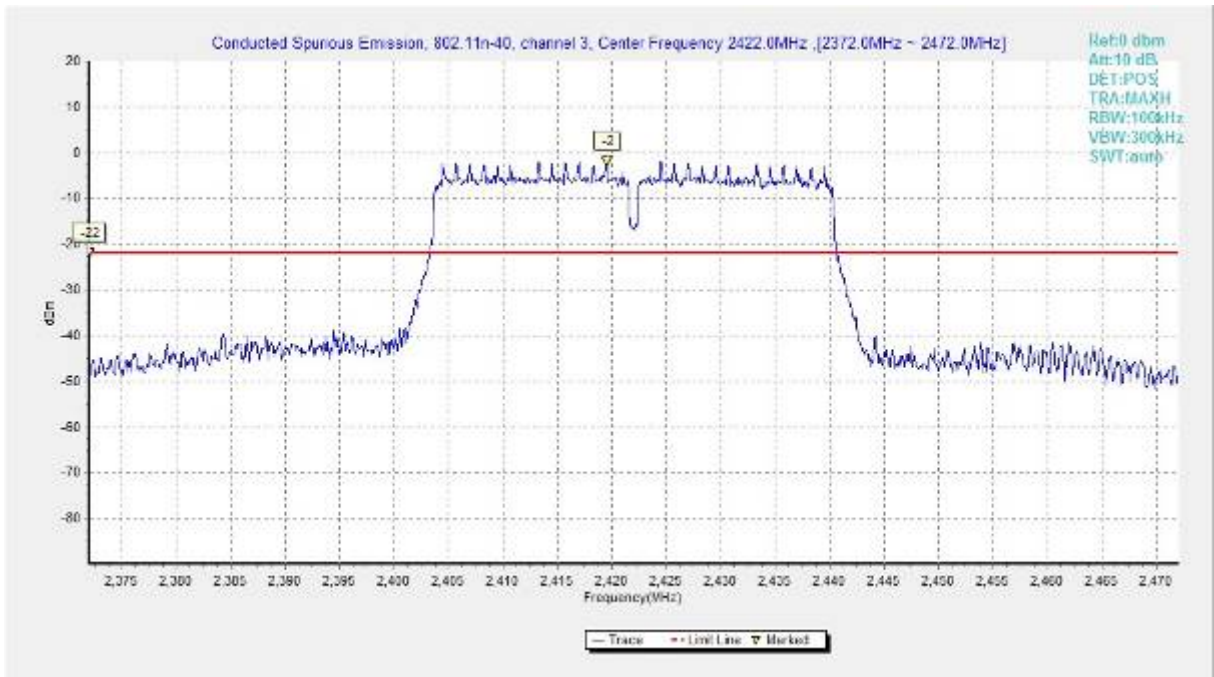


Fig.A.6.1.121 Conducted Spurious Emission (802.11n-HT40, Ch3, Center Frequency)

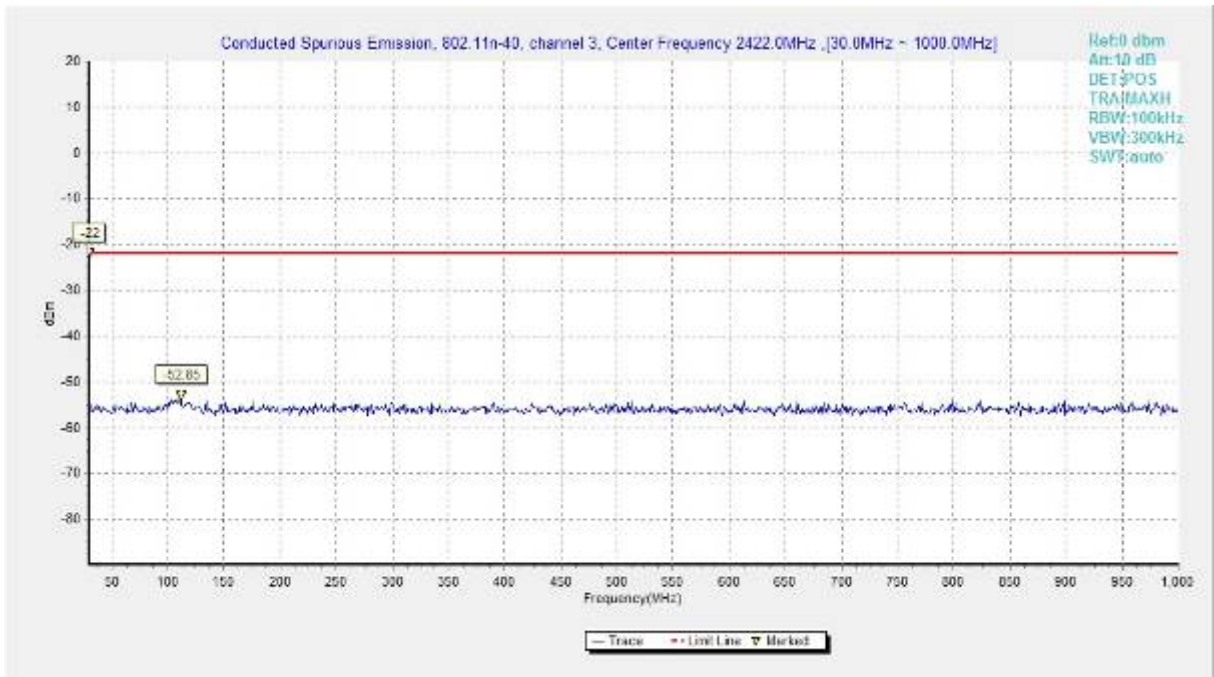


Fig.A.6.1.122 Conducted Spurious Emission (802.11n-HT40, Ch3, 30 MHz-1 GHz)

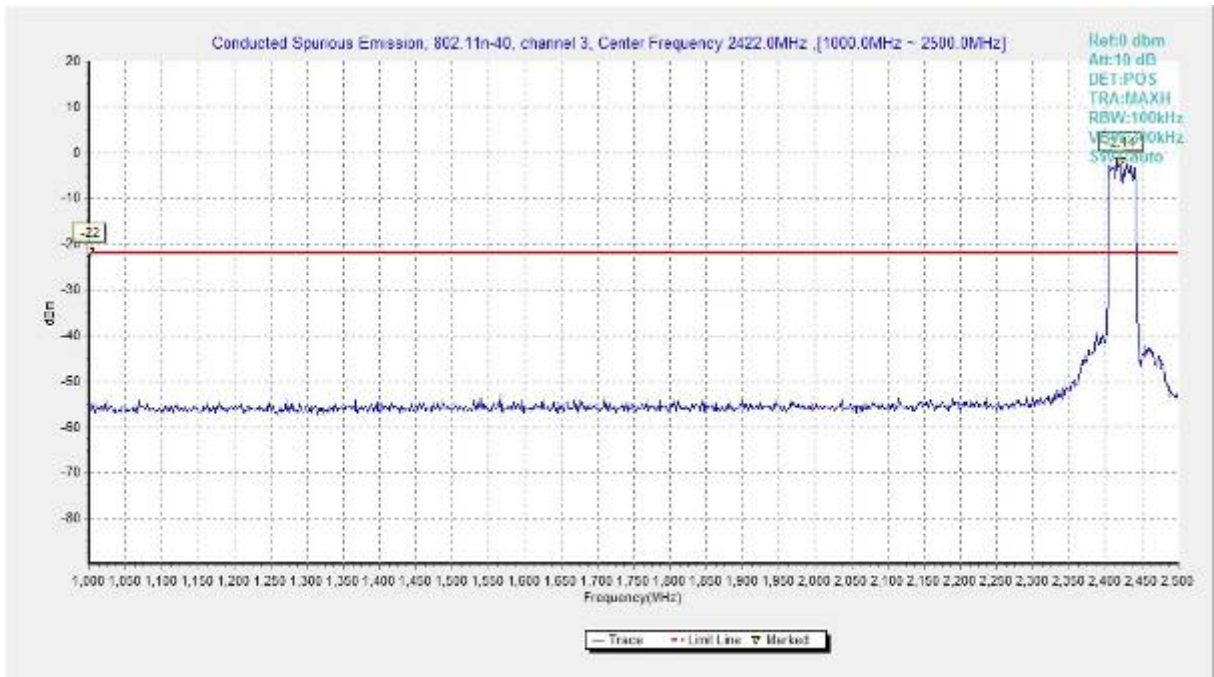


Fig.A.6.1.123 Conducted Spurious Emission (802.11n-HT40, Ch3, 1 GHz-2.5 GHz)

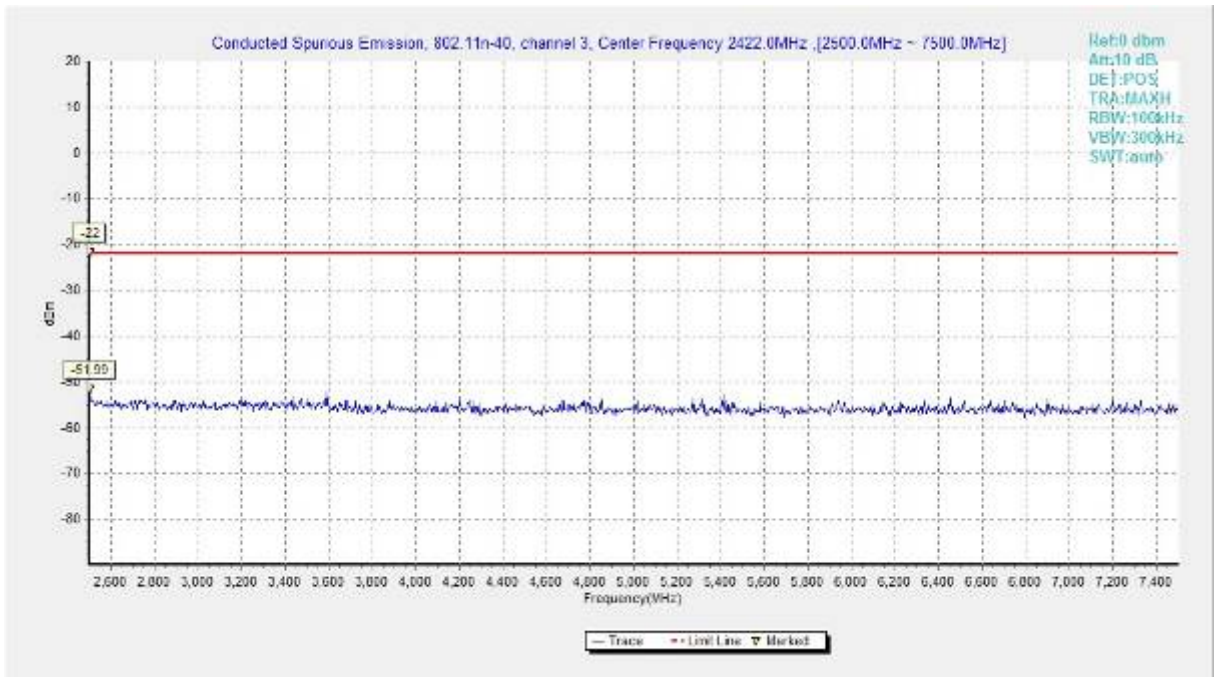


Fig.A.6.1.124 Conducted Spurious Emission (802.11n-HT40, Ch3, 2.5 GHz-7.5 GHz)

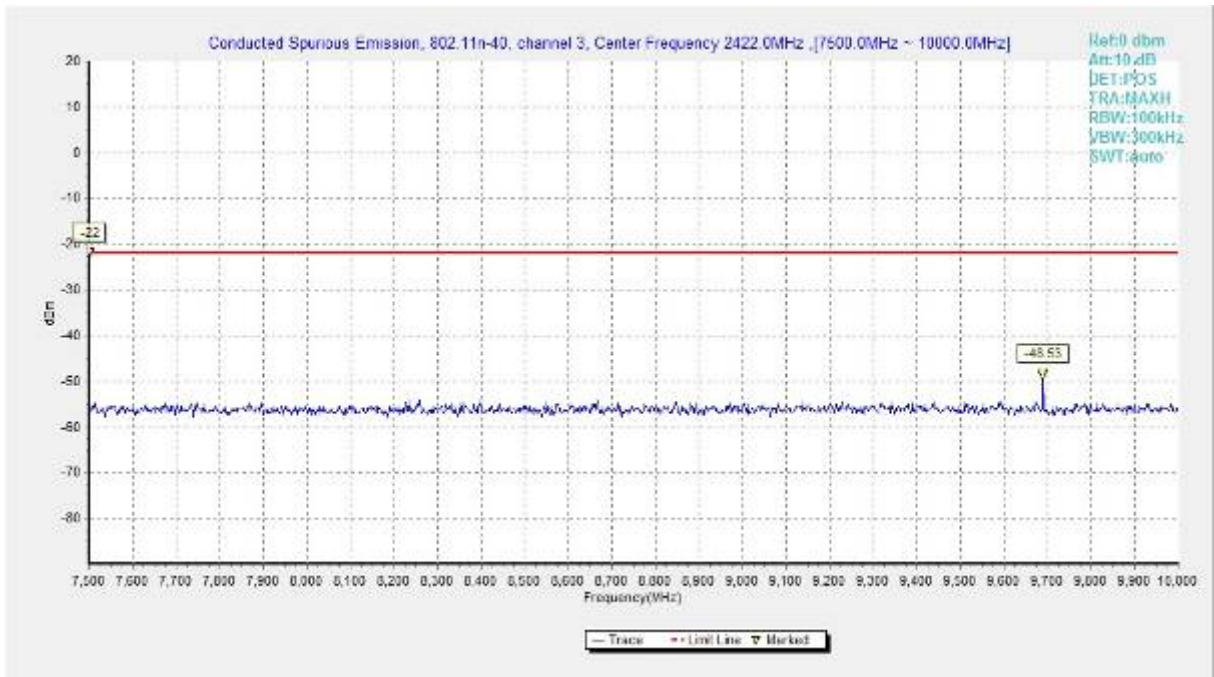


Fig.A.6.1.125 Conducted Spurious Emission (802.11n-HT40, Ch3, 7.5 GHz-10 GHz)

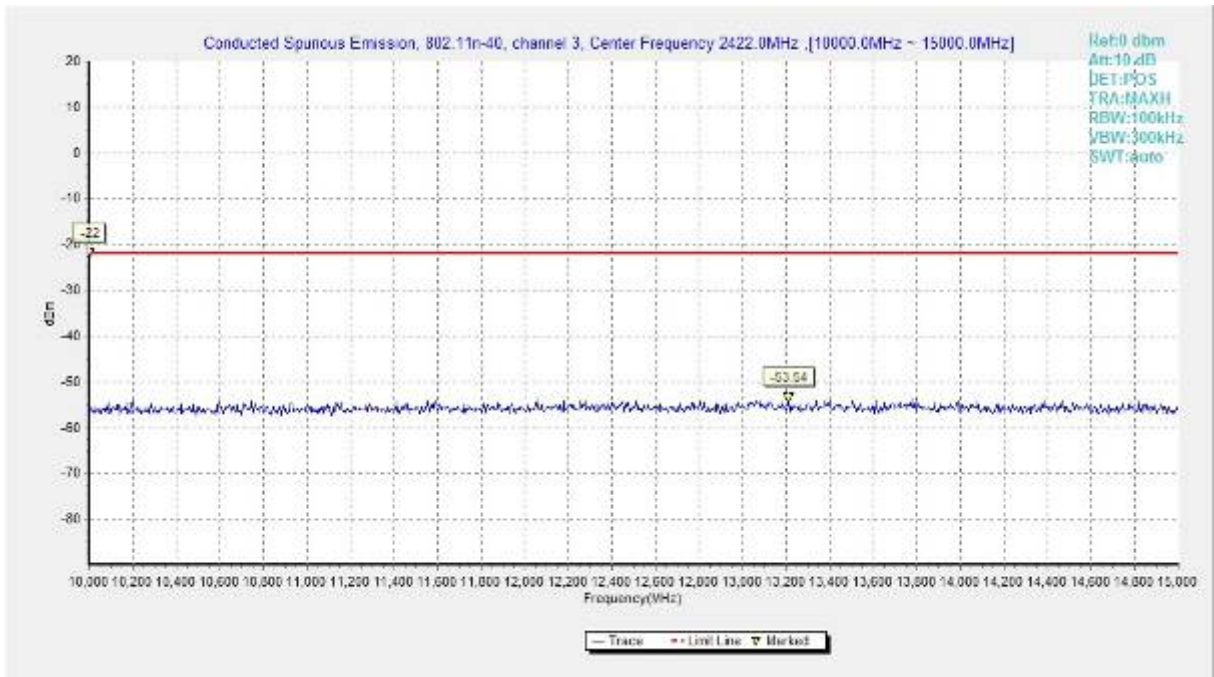


Fig.A.6.1.126 Conducted Spurious Emission (802.11n-HT40, Ch3, 10 GHz-15 GHz)

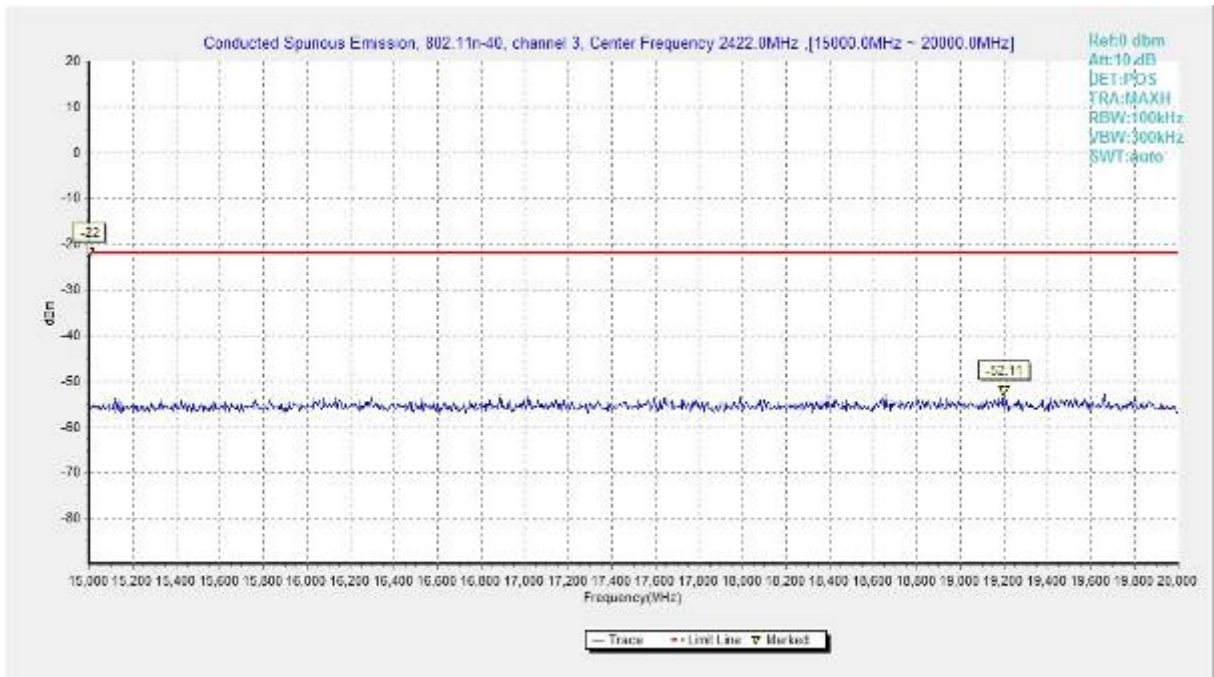


Fig.A.6.1.127 Conducted Spurious Emission (802.11n-HT40, Ch3, 15 GHz-20 GHz)

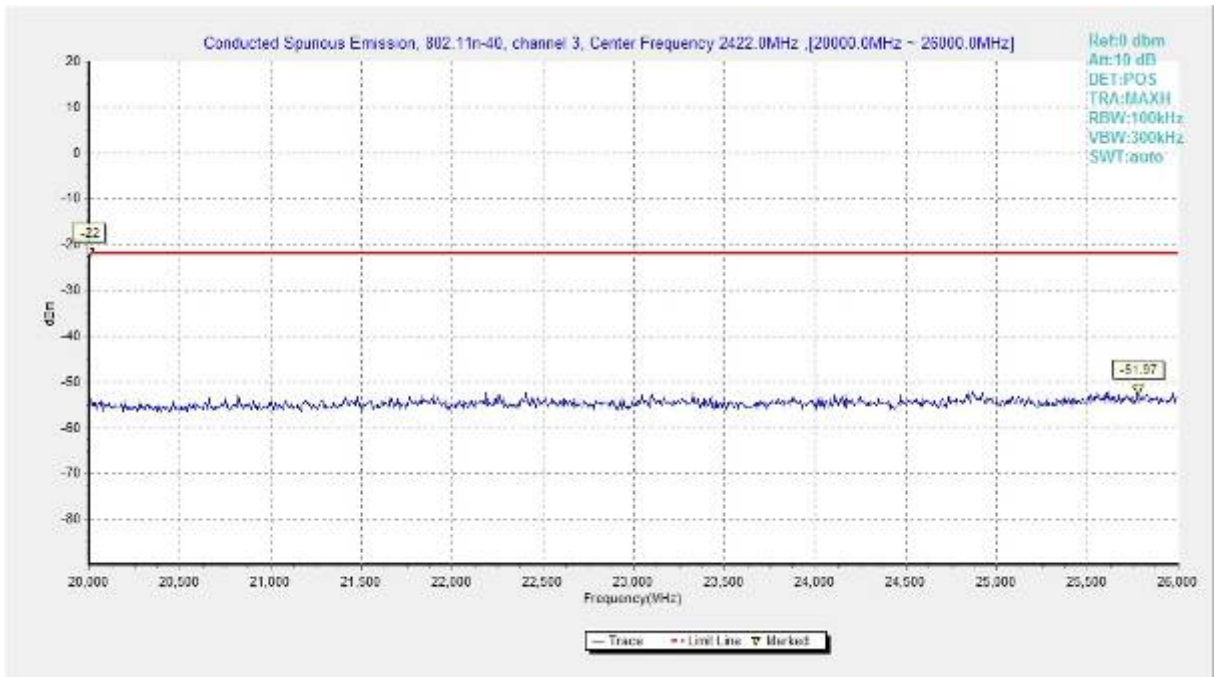


Fig.A.6.1.128 Conducted Spurious Emission (802.11n-HT40, Ch3, 20 GHz-26 GHz)

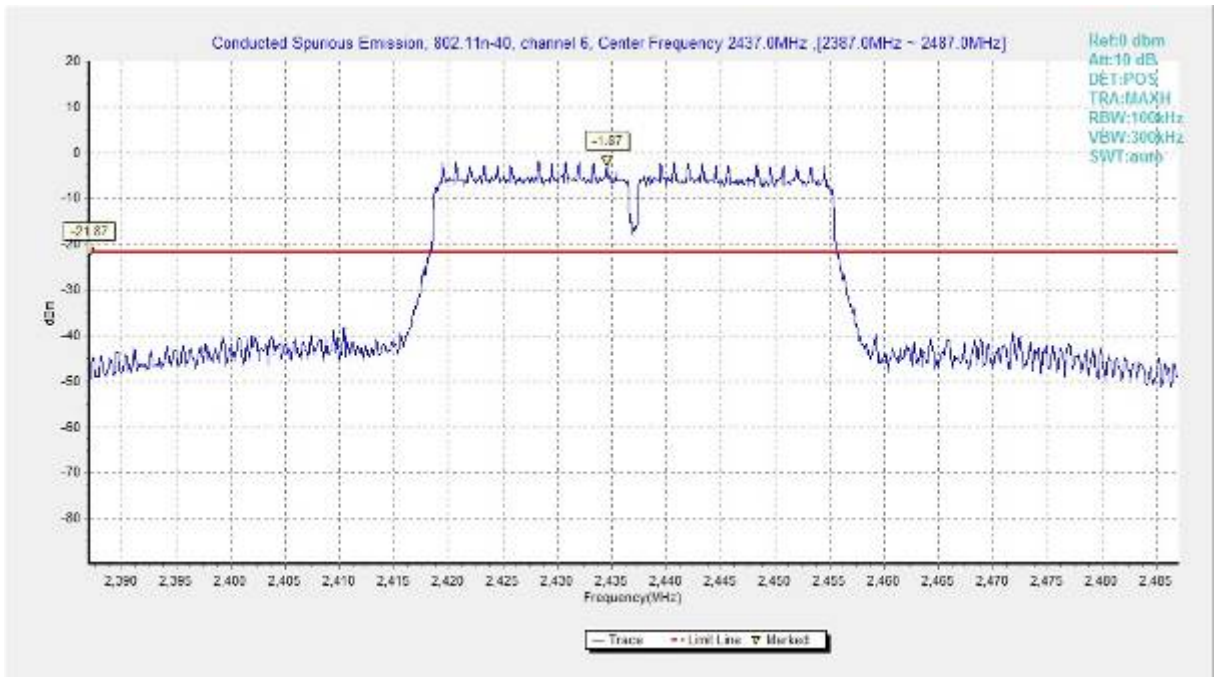


Fig.A.6.1.129 Conducted Spurious Emission (802.11n-HT40, Ch6, Center Frequency)

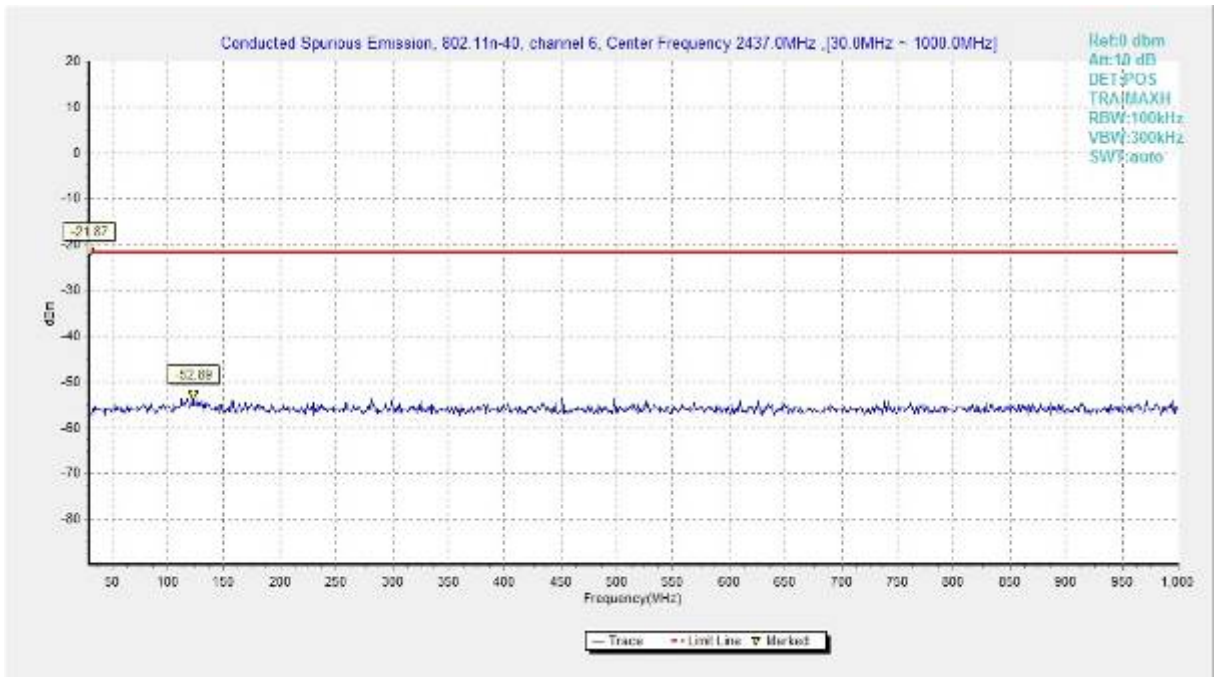


Fig.A.6.1.130 Conducted Spurious Emission (802.11n-HT40, Ch6, 30 MHz-1 GHz)

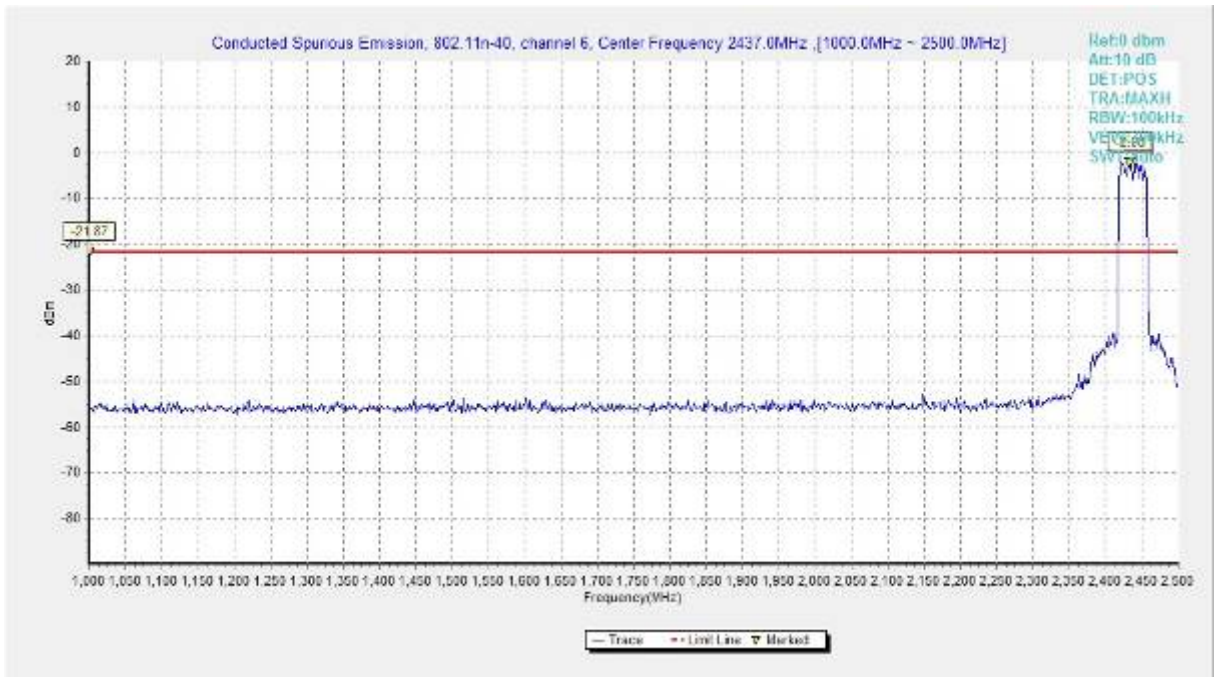


Fig.A.6.1.131 Conducted Spurious Emission (802.11n-HT40, Ch6, 1 GHz-2.5 GHz)

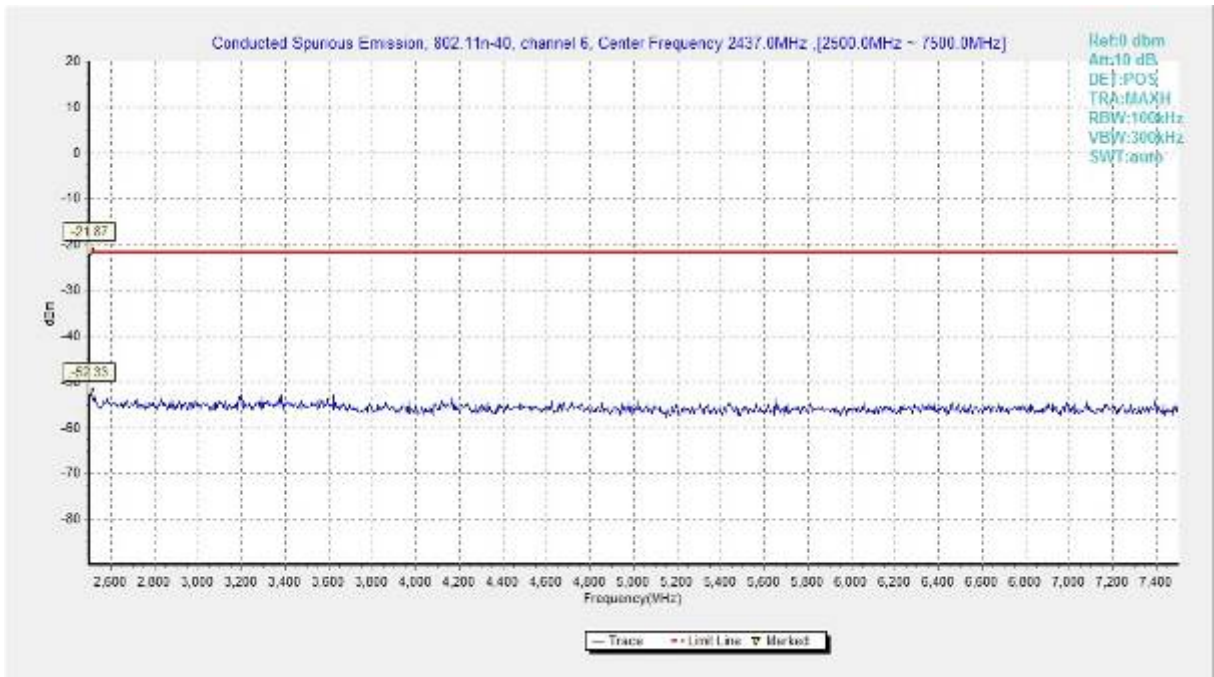


Fig.A.6.1.132 Conducted Spurious Emission (802.11n-HT40, Ch6, 2.5 GHz-7.5 GHz)

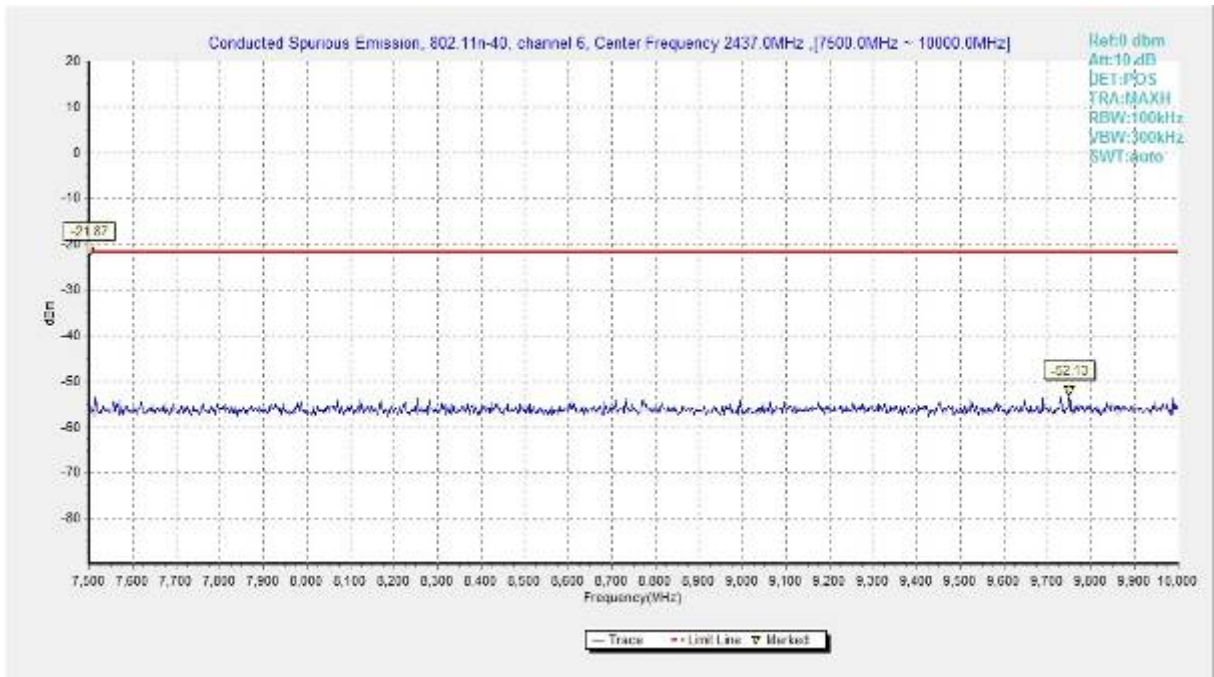


Fig.A.6.1.133 Conducted Spurious Emission (802.11n-HT40, Ch6, 7.5 GHz-10 GHz)

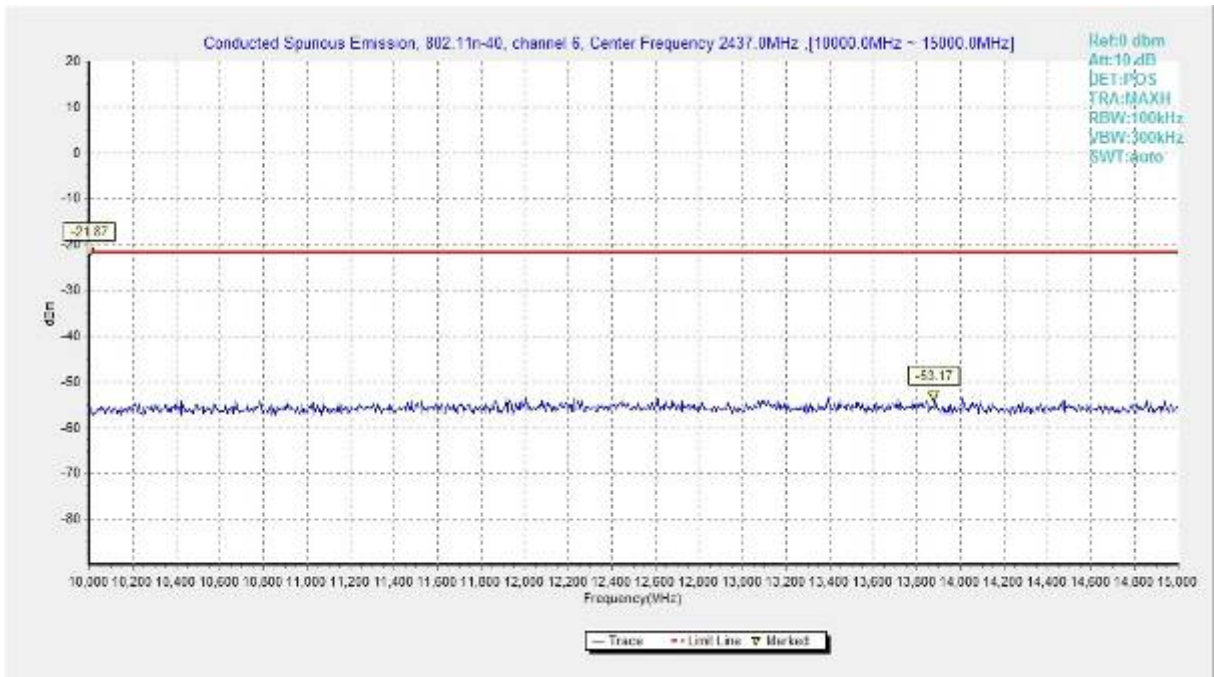


Fig.A.6.1.134 Conducted Spurious Emission (802.11n-HT40, Ch6, 10 GHz-15 GHz)

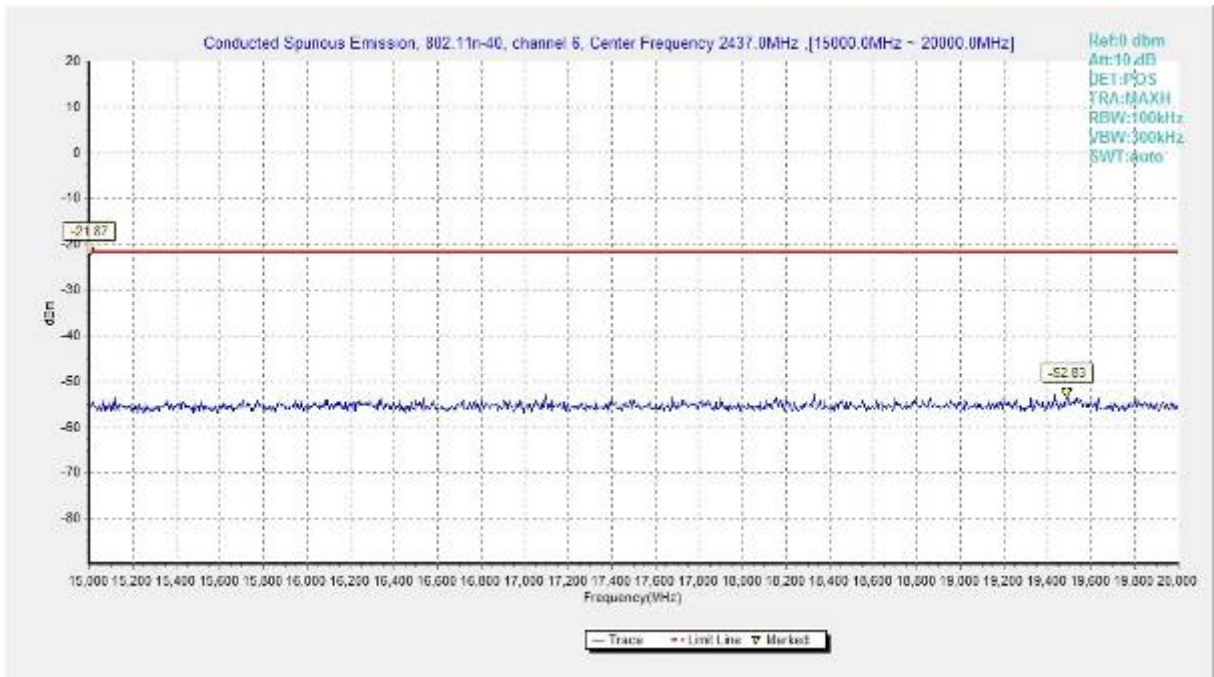


Fig.A.6.1.135 Conducted Spurious Emission (802.11n-HT40, Ch6, 15 GHz-20 GHz)

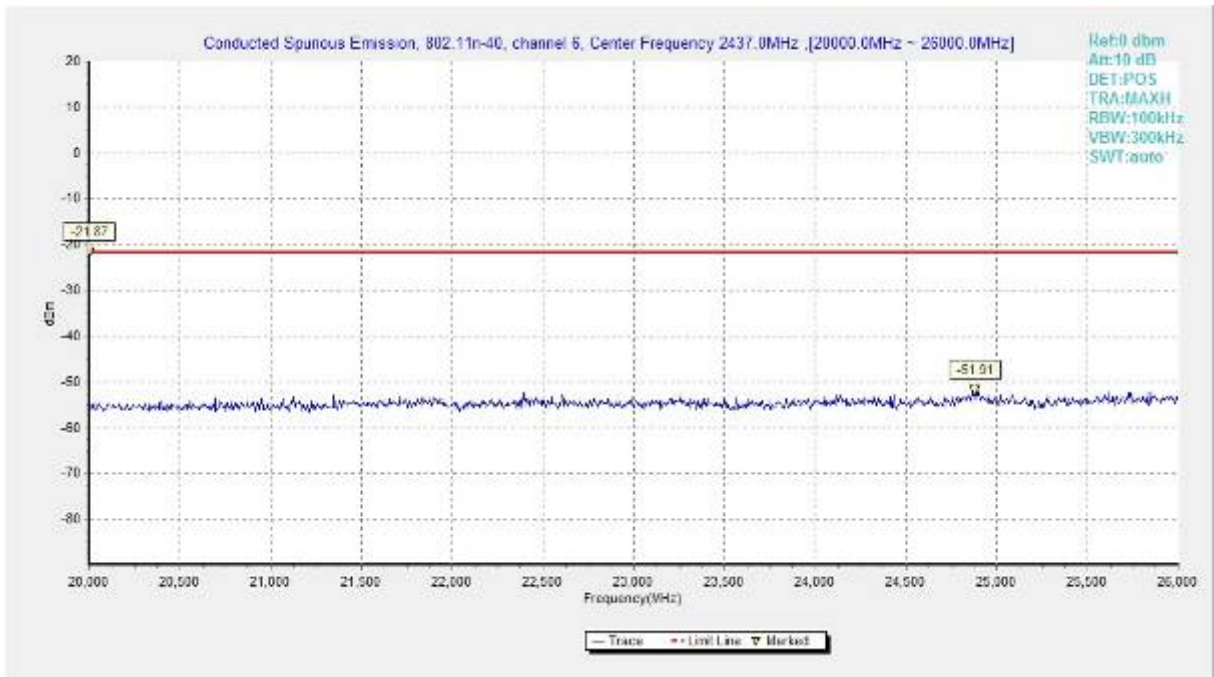


Fig.A.6.1.136 Conducted Spurious Emission (802.11n-HT40, Ch6, 20 GHz-26 GHz)

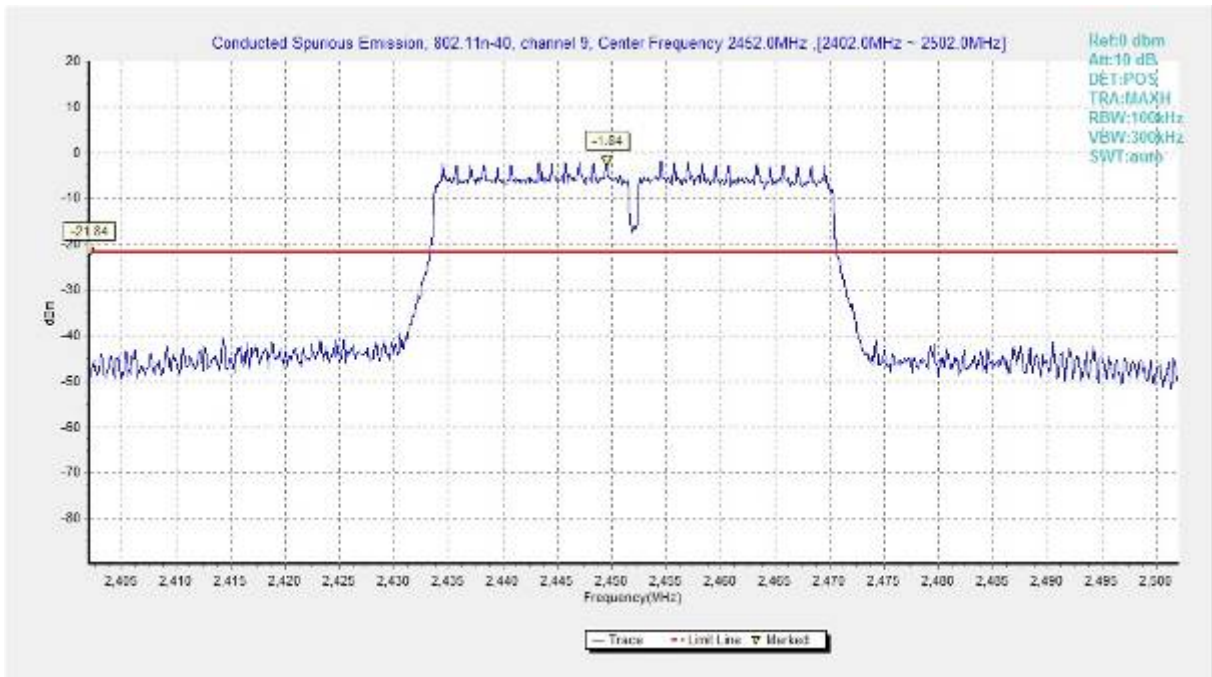


Fig.A.6.1.137 Conducted Spurious Emission (802.11n-HT40, Ch9, Center Frequency)

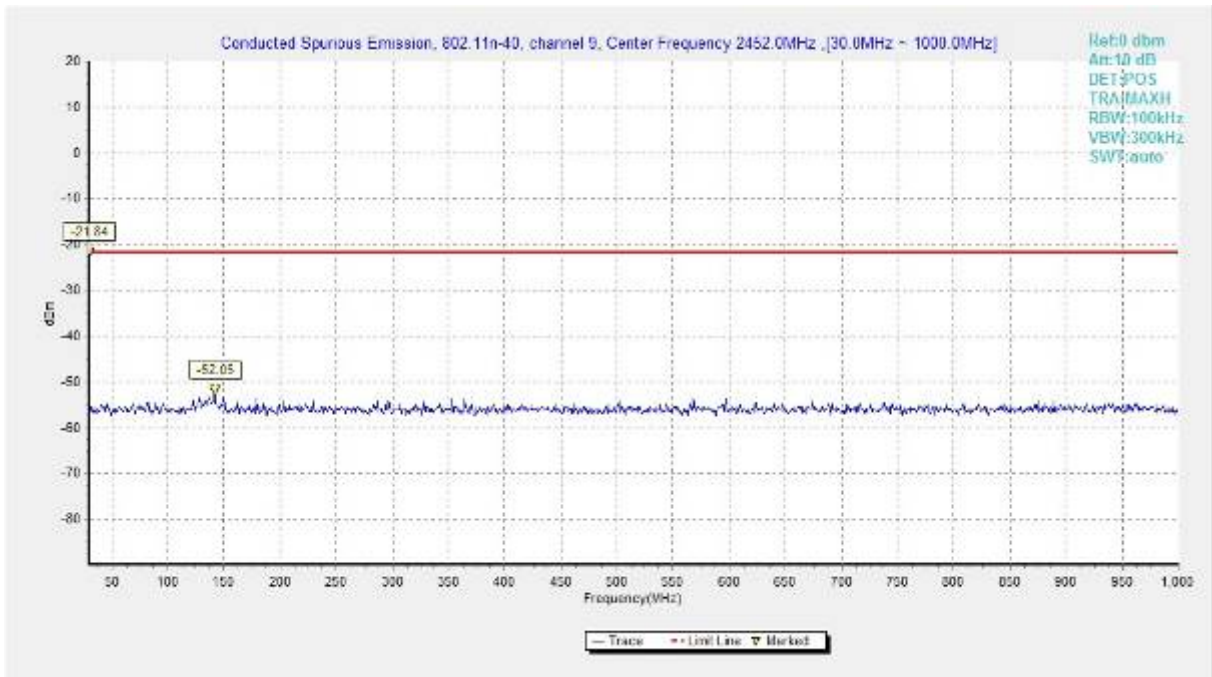


Fig.A.6.1.138 Conducted Spurious Emission (802.11n-HT40, Ch9, 30 MHz-1 GHz)

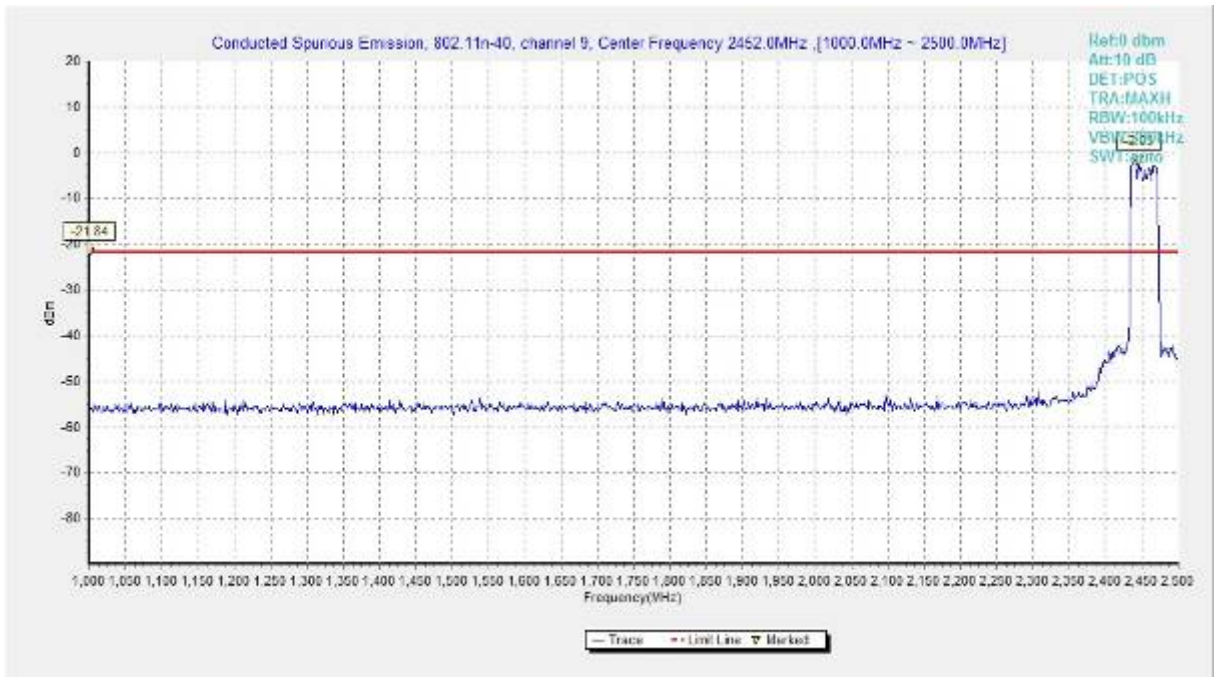


Fig.A.6.1.139 Conducted Spurious Emission (802.11n-HT40, Ch9, 1 GHz-2.5 GHz)

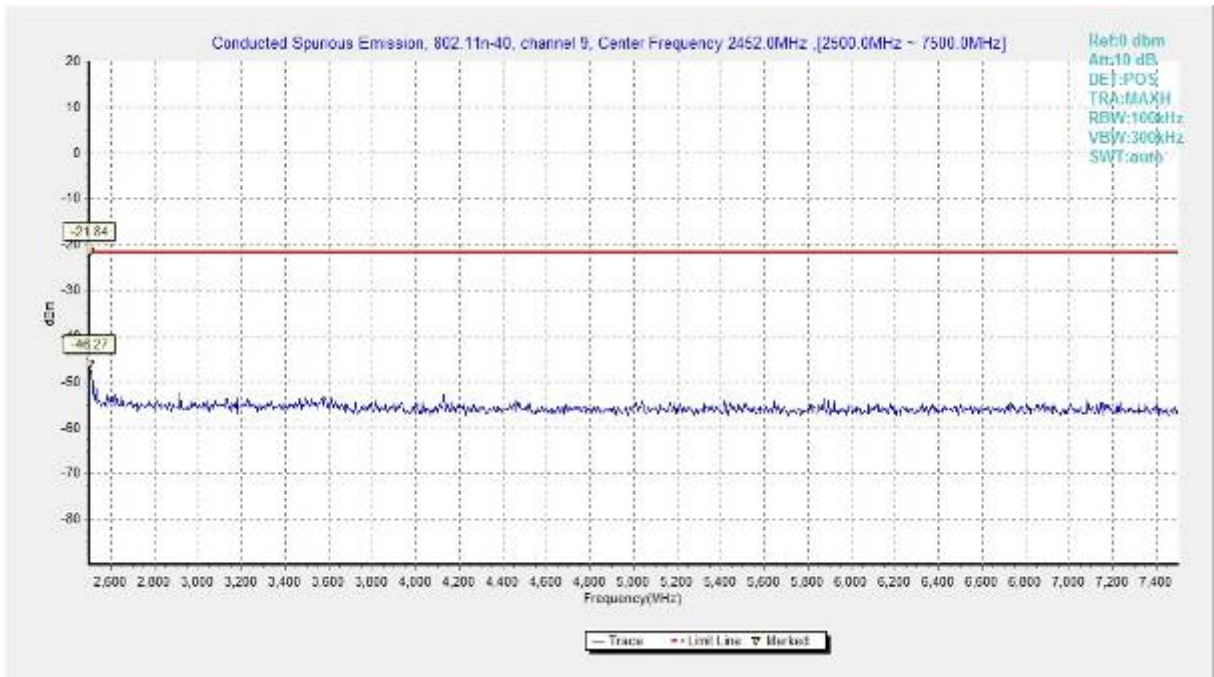


Fig.A.6.1.140 Conducted Spurious Emission (802.11n-HT40, Ch9, 2.5 GHz-7.5 GHz)

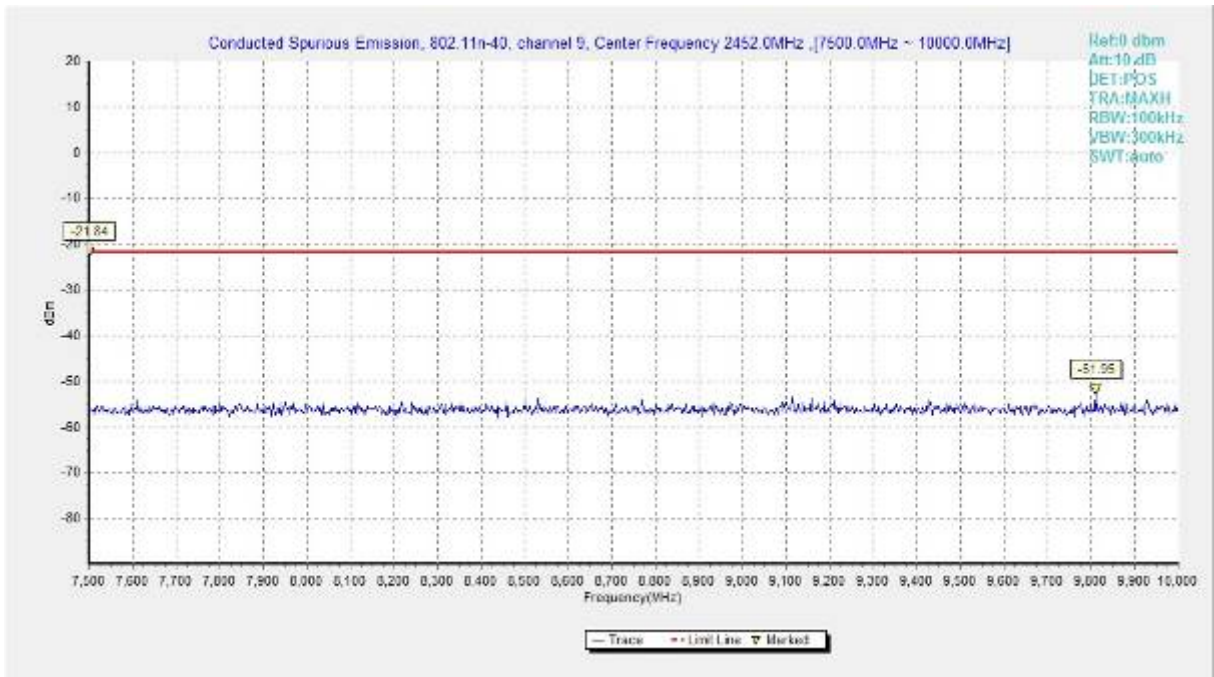


Fig.A.6.1.141 Conducted Spurious Emission (802.11n-HT40, Ch9, 7.5 GHz-10 GHz)

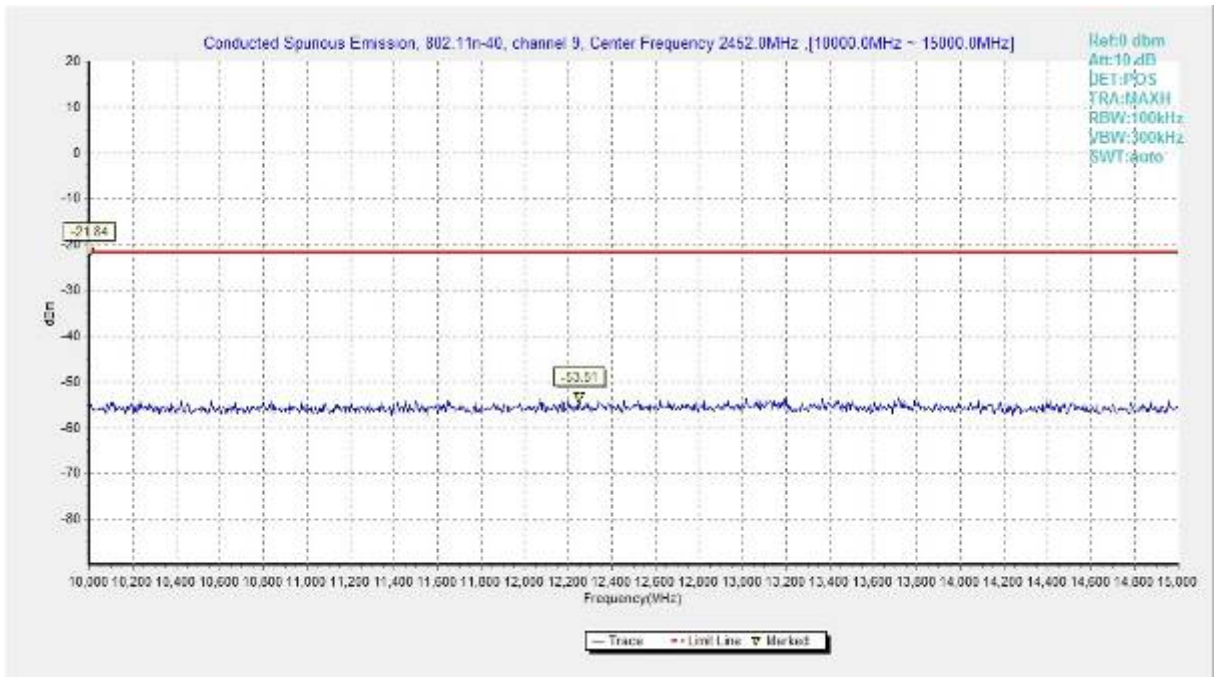


Fig.A.6.1.142 Conducted Spurious Emission (802.11n-HT40, Ch9, 10 GHz-15 GHz)

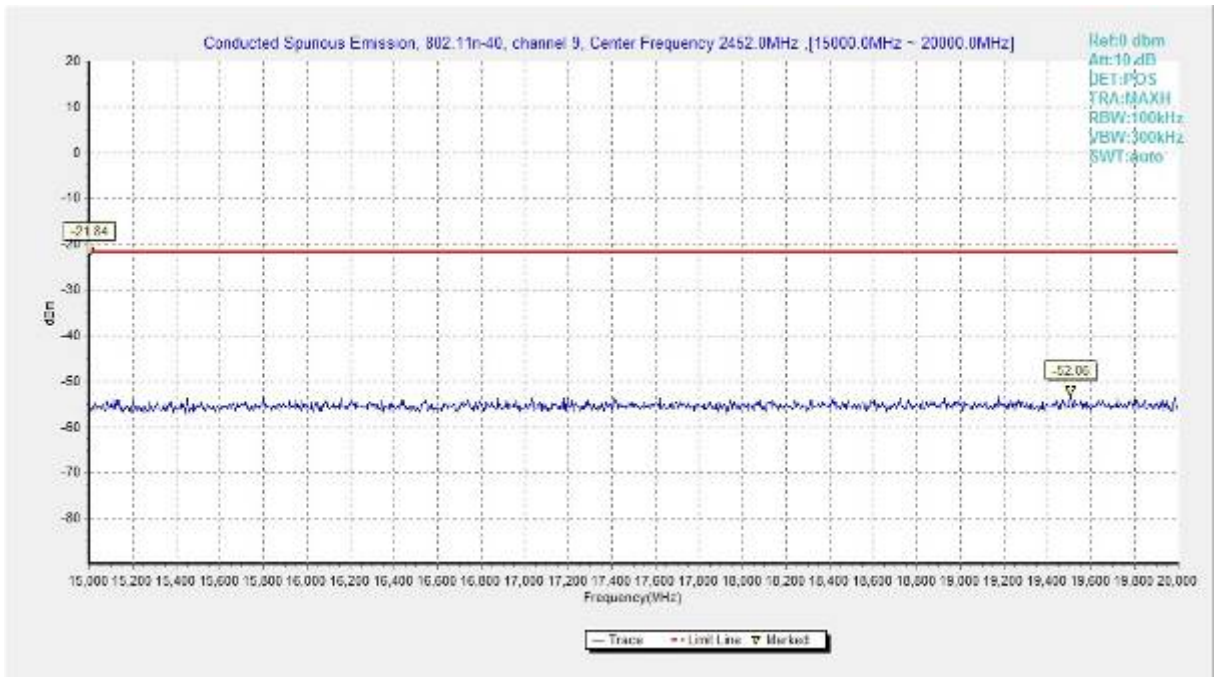


Fig.A.6.1.143 Conducted Spurious Emission (802.11n-HT40, Ch9, 15 GHz-20 GHz)

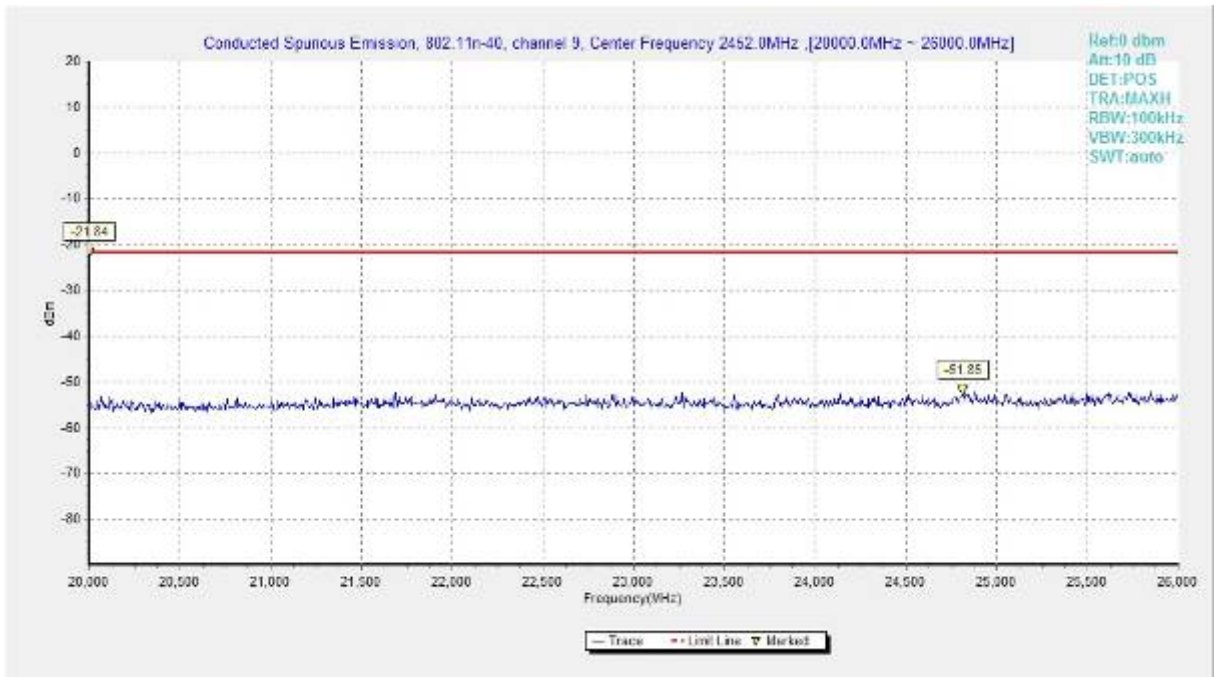


Fig.A.6.1.144 Conducted Spurious Emission (802.11n-HT40, Ch9, 20 GHz-26 GHz)

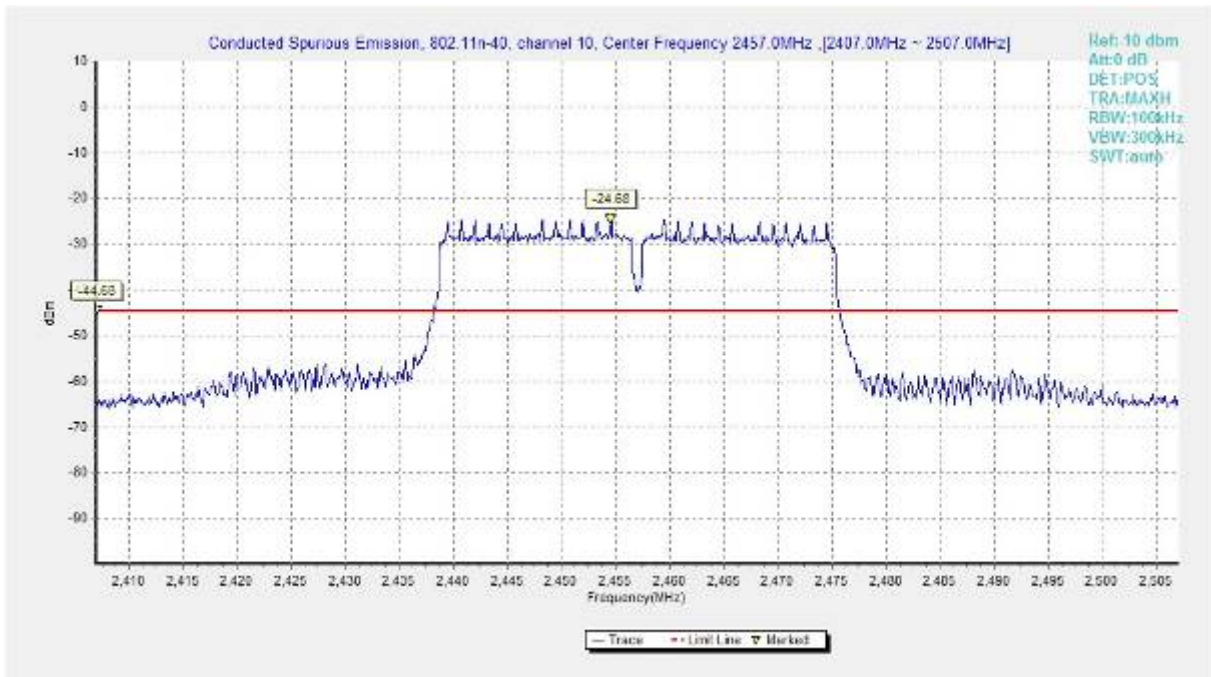


Fig.A.6.1.145 Conducted Spurious Emission (802.11 n-HT40, Ch10, Center Frequency)

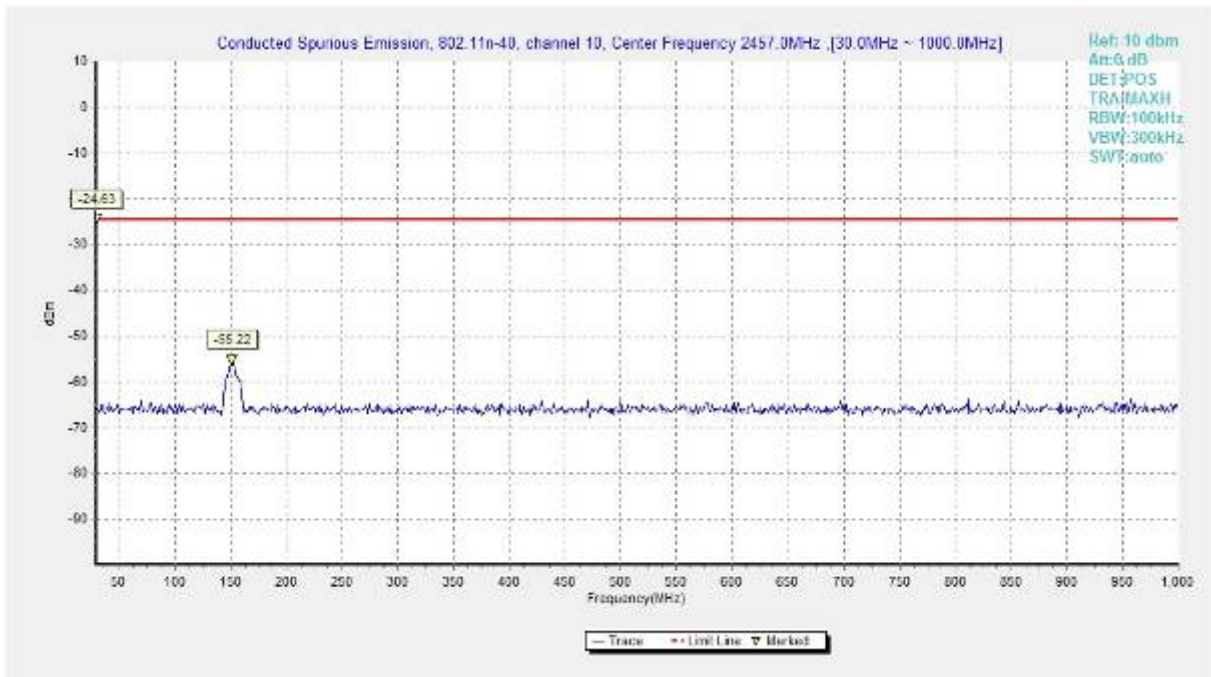


Fig.A.6.1.146 Conducted Spurious Emission (802.11 n-HT40, Ch10, 30 MHz-1 GHz)

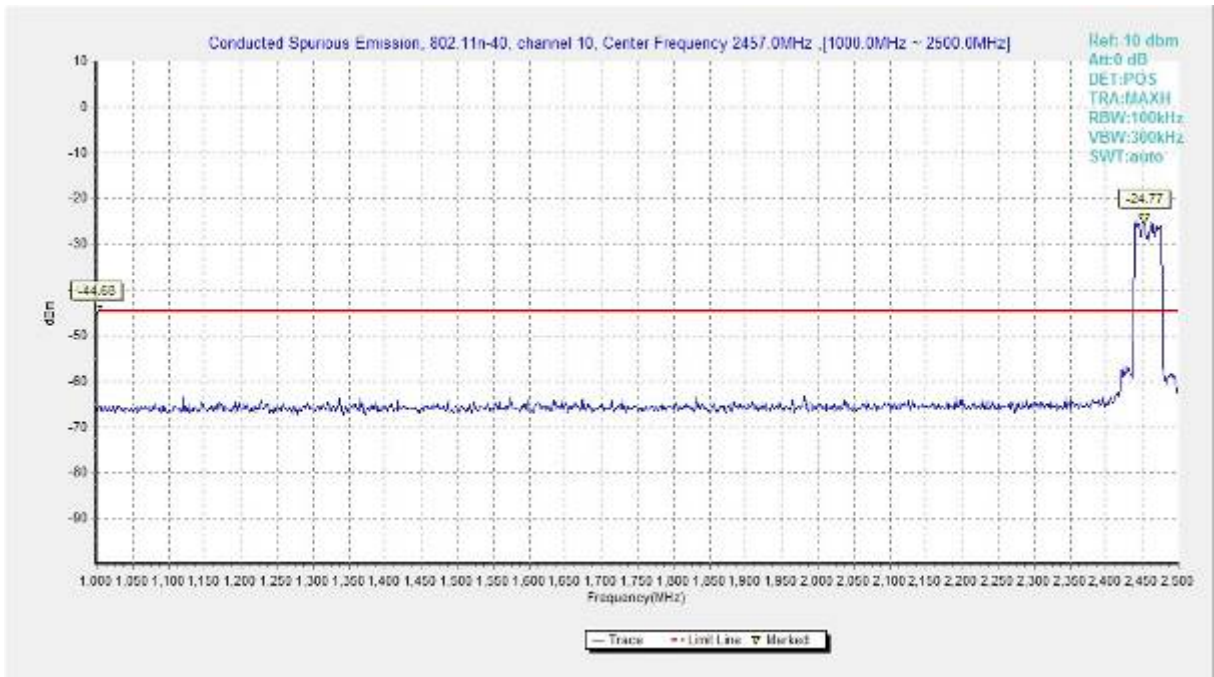


Fig.A.6.1.147 Conducted Spurious Emission (802.11 n-HT40, Ch10, 1 GHz-2.5 GHz)

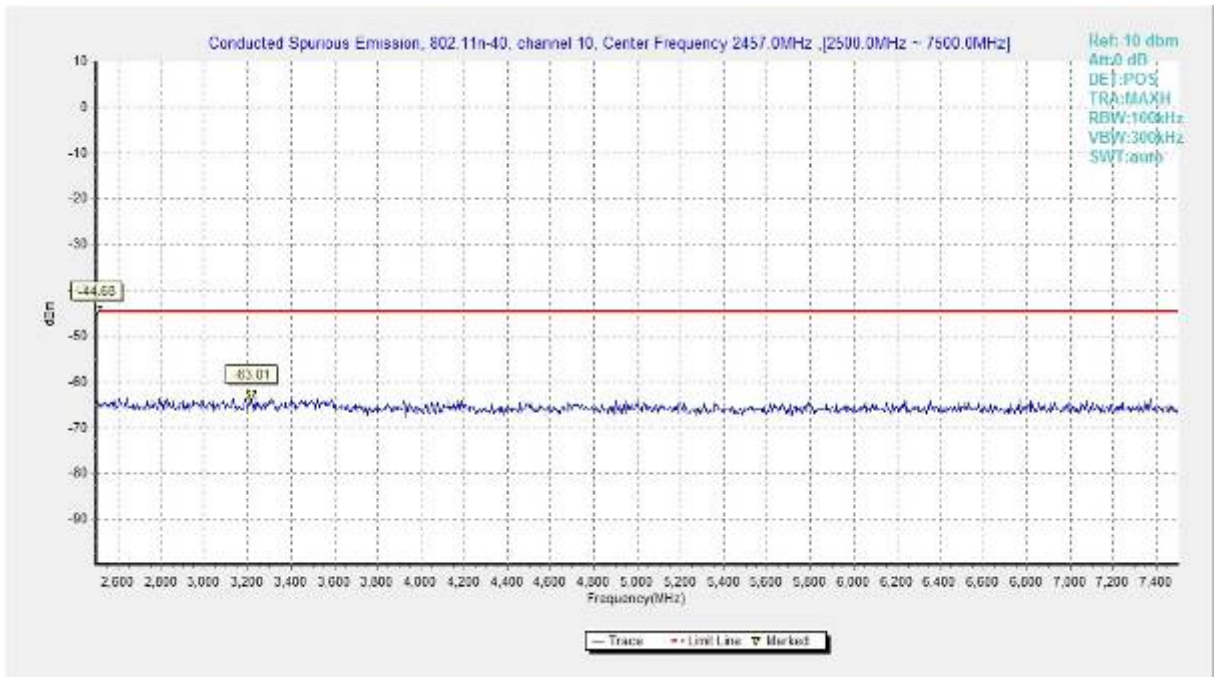


Fig.A.6.1.148 Conducted Spurious Emission (802.11 n-HT40, Ch10, 2.5 GHz-7.5 GHz)

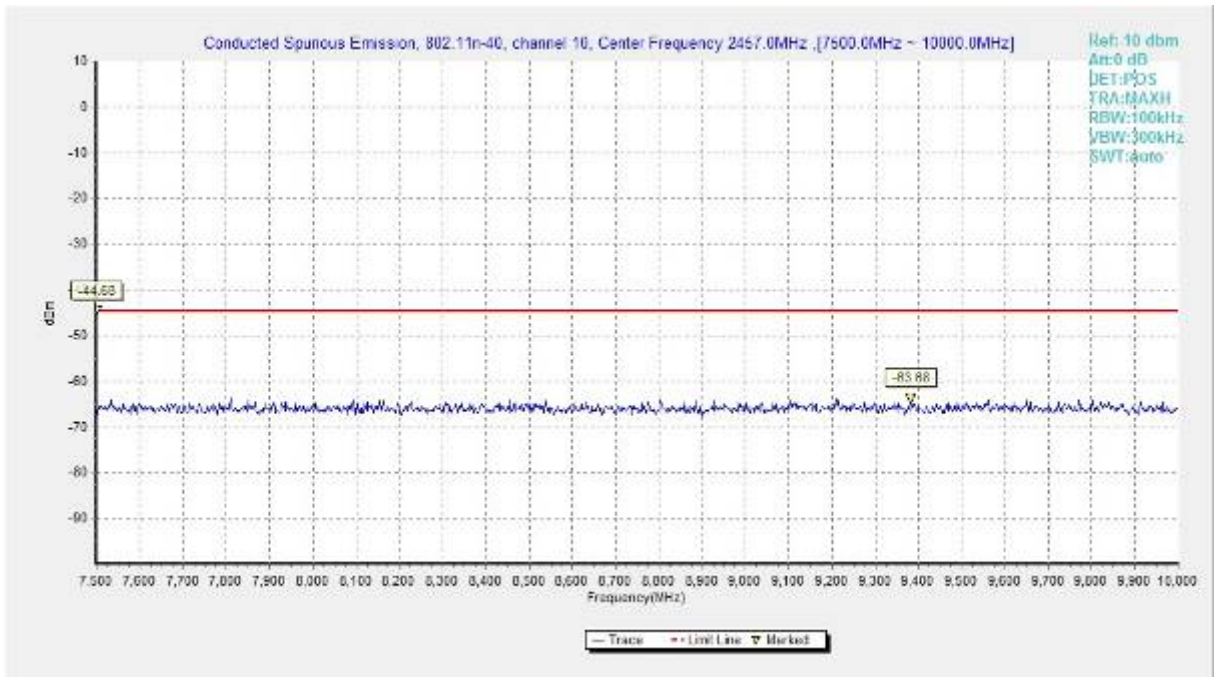


Fig.A.6.1.149 Conducted Spurious Emission (802.11 n-HT40, Ch10, 7.5 GHz-10 GHz)

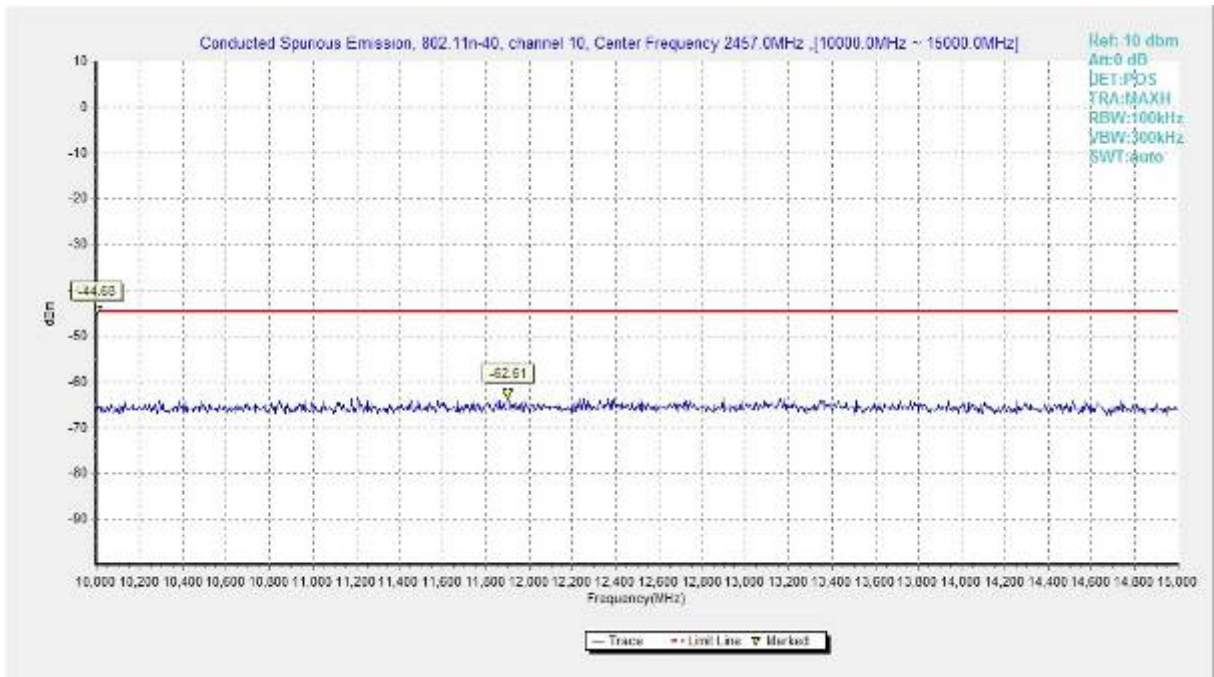


Fig.A.6.1.150 Conducted Spurious Emission (802.11 n-HT40, Ch10, 10 GHz-15 GHz)

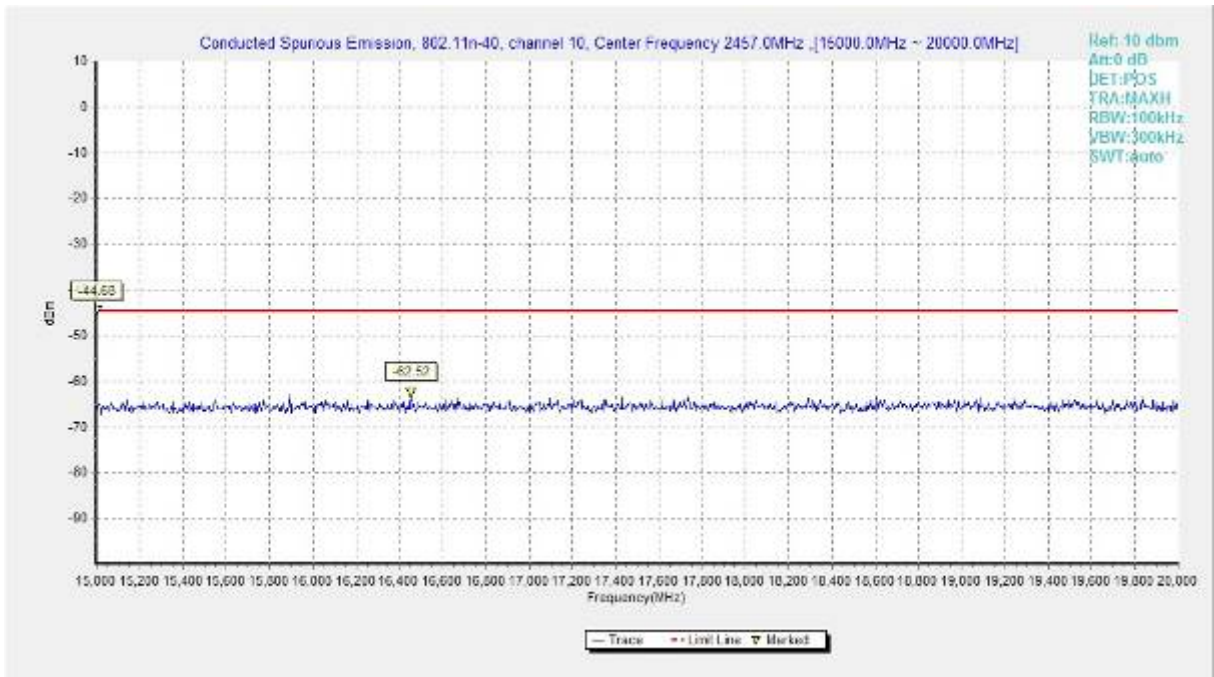


Fig.A.6.1.151 Conducted Spurious Emission (802.11 n-HT40, Ch10, 15 GHz-20 GHz)

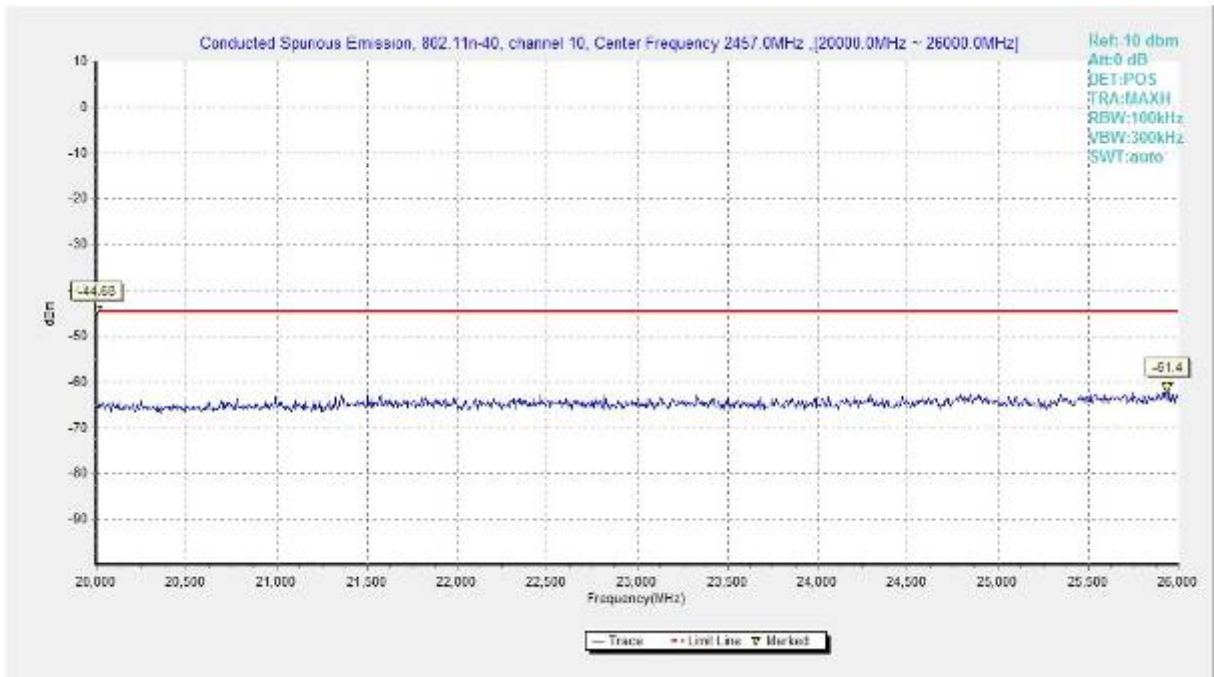


Fig.A.6.1.152 Conducted Spurious Emission (802.11 n-HT40, Ch10, 20 GHz-26 GHz)

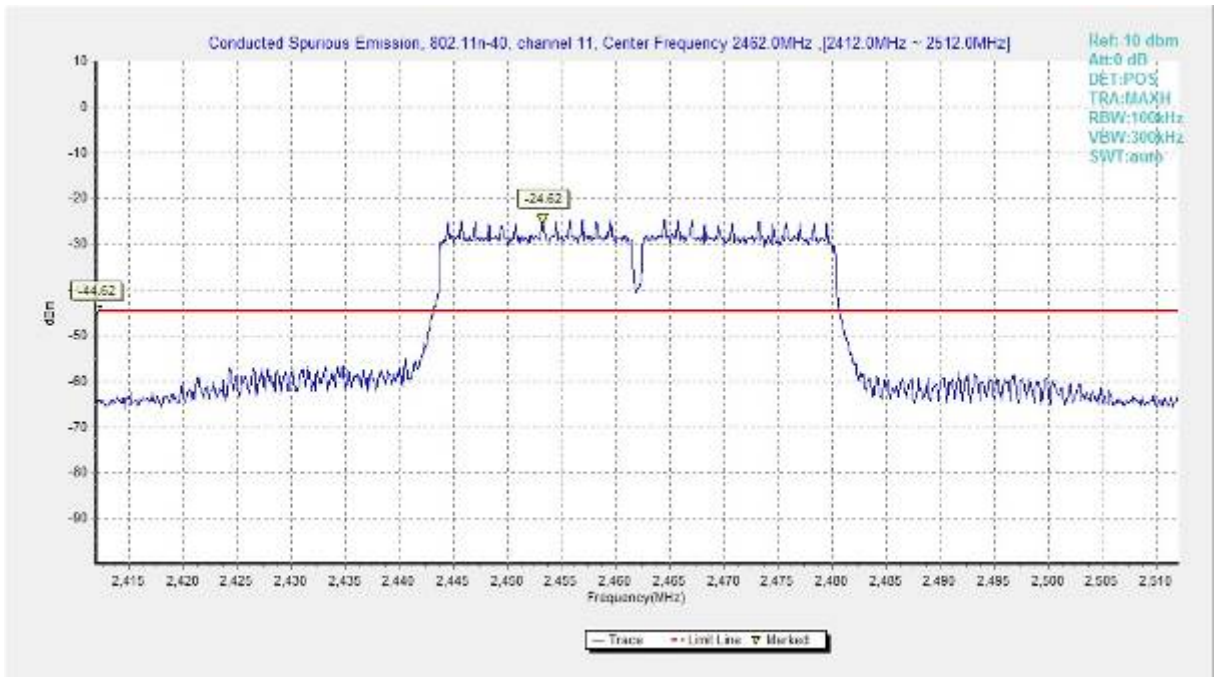


Fig.A.6.1.153 Conducted Spurious Emission (802.11 n-HT40, Ch11, Center Frequency)

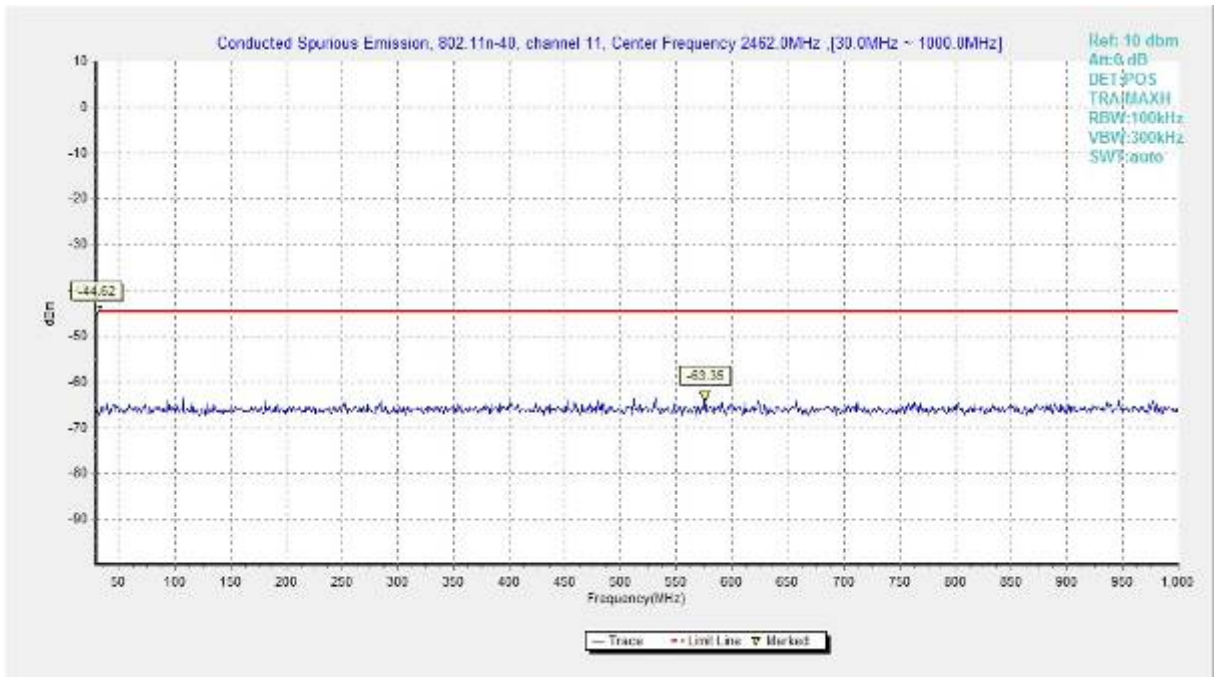


Fig.A.6.1.154 Conducted Spurious Emission (802.11 n-HT40, Ch11, 30 MHz-1 GHz)

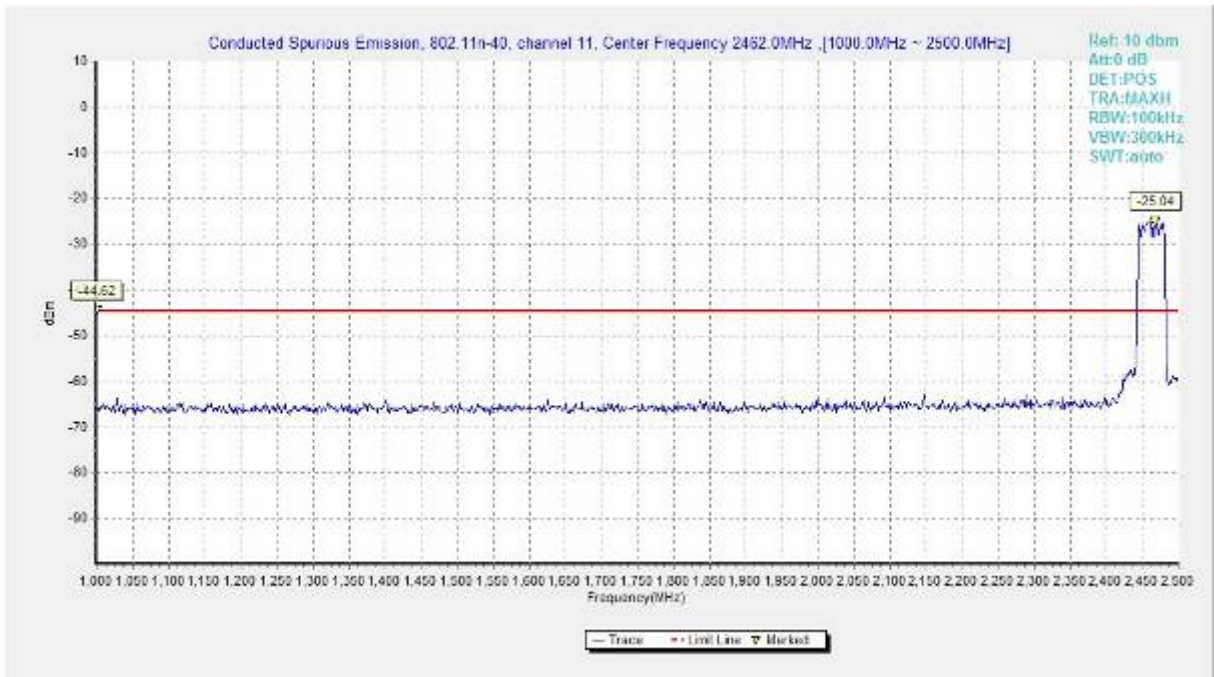


Fig.A.6.1.155 Conducted Spurious Emission (802.11 n-HT40, Ch11, 1 GHz-2.5 GHz)

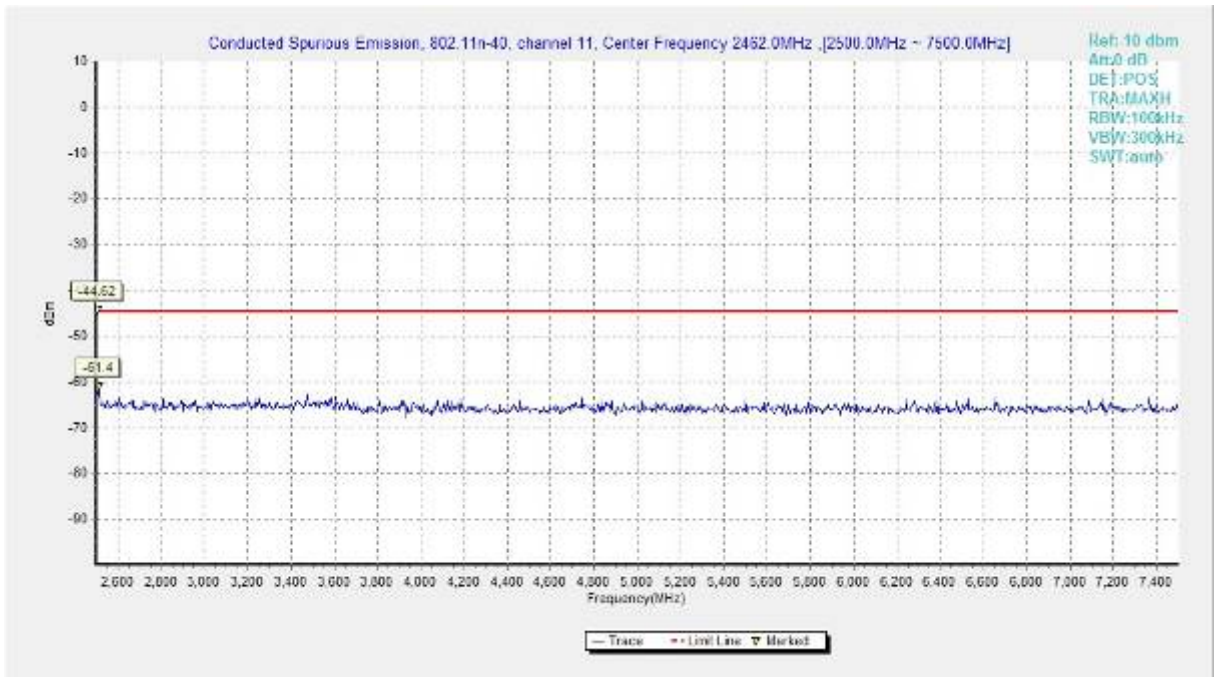


Fig.A.6.1.156 Conducted Spurious Emission (802.11 n-HT40, Ch11, 2.5 GHz-7.5 GHz)

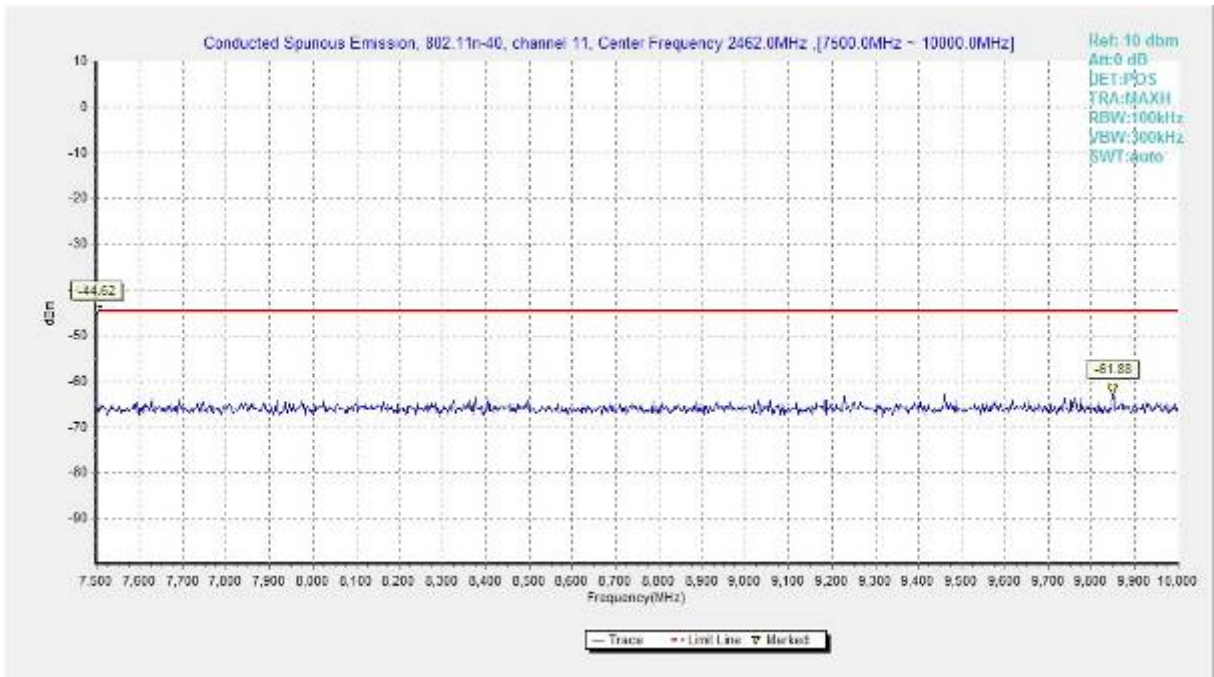


Fig.A.6.1.157 Conducted Spurious Emission (802.11 n-HT40, Ch11, 7.5 GHz-10 GHz)

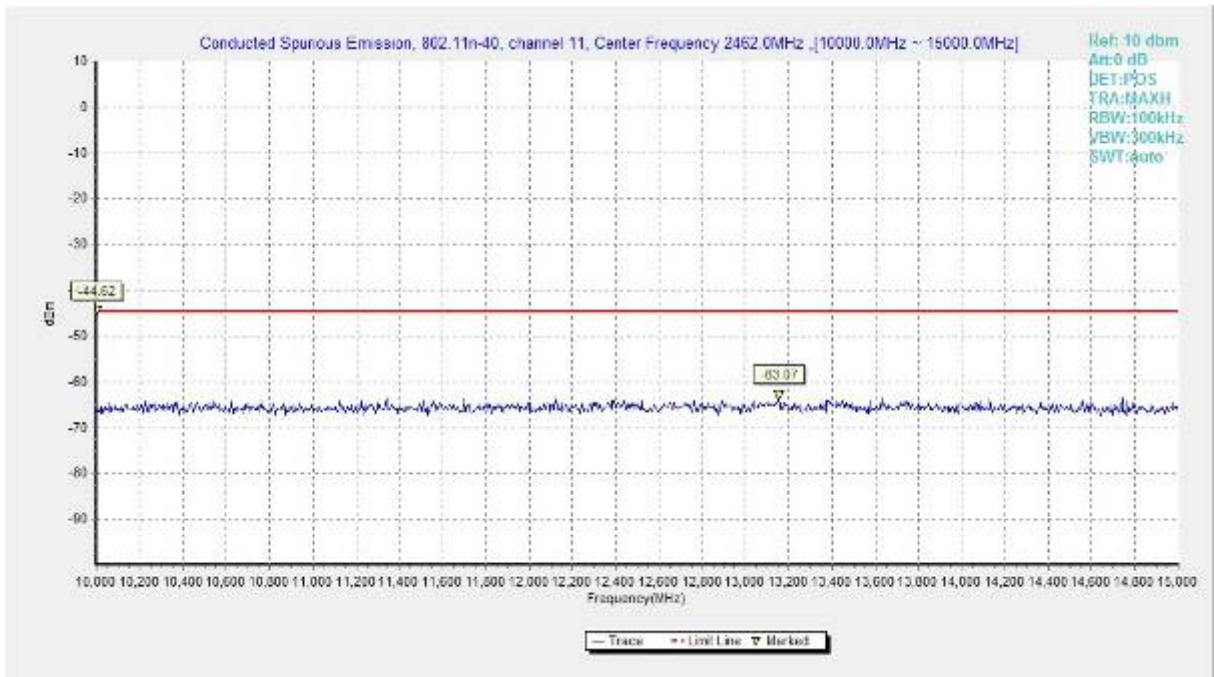


Fig.A.6.1.158 Conducted Spurious Emission (802.11 n-HT40, Ch11, 10 GHz-15 GHz)

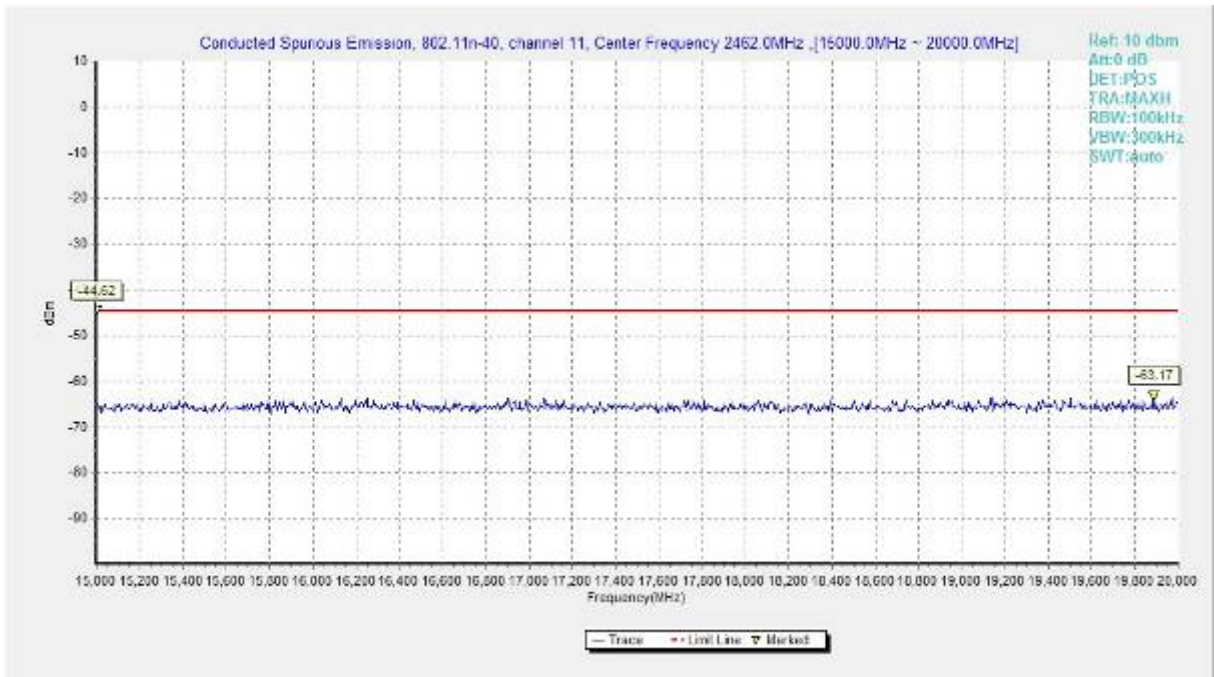


Fig.A.6.1.159 Conducted Spurious Emission (802.11 n-HT40, Ch11, 15 GHz-20 GHz)

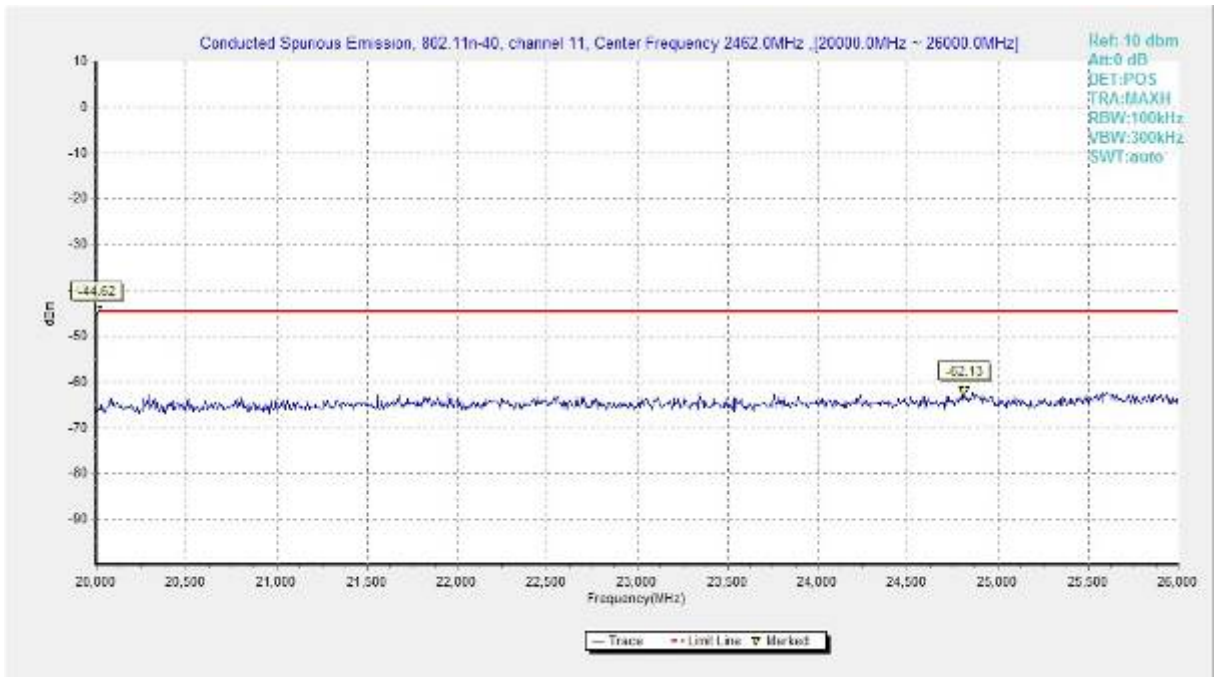


Fig.A.6.1.160 Conducted Spurious Emission (802.11 n-HT40, Ch11, 20 GHz-26 GHz)

A.6.2 Transmitter Spurious Emission - Radiated

Measurement Limit:

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

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

The measurement is made according to KDB558074.

Limit in restricted band:

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

Test Condition

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

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

Modulation type and data rate tested:

802.11b	802.11g	802.11n-HT20	802.11n-HT40
11Mbps(CCK)	24Mbps(OFDM)	MCS4(OFDM)	MCS0(OFDM)

Measurement Results:

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion	
802.11b	Power	2.38GHz ~2.45GHz	Fig.A.6.2.1	P	
	1	1 GHz ~ 3 GHz	Fig.A.6.2.2	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.3	P	
	6	30 MHz ~1 GHz	Fig.A.6.2.4	P	
		1 GHz ~ 3 GHz	Fig.A.6.2.5	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.6	P	
	6	18 GHz~ 26.5 GHz	Fig.A.6.2.7	P	
		Power	2.45GHz ~2.5GHz	Fig.A.6.2.8	P
		11	1 GHz ~ 3 GHz	Fig.A.6.2.9	P
	3 GHz ~ 18 GHz		Fig.A.6.2.10	P	
	12	1 GHz ~ 3 GHz	Fig.A.6.2.11	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.12	P	
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.13	P	
	13	1 GHz ~ 3 GHz	Fig.A.6.2.14	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.15	P	

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion	
802.11g	Power	2.38GHz ~2.43GHz	Fig.A.6.2.16	P	
	1	1 GHz ~ 3 GHz	Fig.A.6.2.17	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.18	P	
	6	30 MHz ~1 GHz	Fig.A.6.2.19	P	
		1 GHz ~ 3 GHz	Fig.A.6.2.20	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.21	P	
	6	18 GHz~ 26.5 GHz	Fig.A.6.2.22	P	
		Power	2.45GHz ~2.5GHz	Fig.A.6.2.23	P
		11	1 GHz ~ 3 GHz	Fig.A.6.2.24	P
	3 GHz ~ 18 GHz		Fig.A.6.2.25	P	
	12	1 GHz ~ 3 GHz	Fig.A.6.2.26	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.27	P	
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.28	P	
	13	1 GHz ~ 3 GHz	Fig.A.6.2.29	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.30	P	

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion	
802.11n (HT20)	Power	2.38GHz ~2.45GHz	Fig.A.6.2.31	P	
	1	1 GHz ~ 3 GHz	Fig.A.6.2.32	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.33	P	
	6	30 MHz ~1 GHz	Fig.A.6.2.34	P	
		1 GHz ~ 3 GHz	Fig.A.6.2.35	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.36	P	
	6	18 GHz~ 26.5 GHz	Fig.A.6.2.37	P	
		Power	2.45GHz ~2.5GHz	Fig.A.6.2.38	P
		11	1 GHz ~ 3 GHz	Fig.A.6.2.39	P
	3 GHz ~ 18 GHz		Fig.A.6.2.40	P	
	12	1 GHz ~ 3 GHz	Fig.A.6.2.41	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.42	P	
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.43	P	
	13	1 GHz ~ 3 GHz	Fig.A.6.2.44	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.45	P	

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion	
802.11n (HT40)	Power	2.38GHz ~2.45GHz	Fig.A.6.2.46	P	
	3	1 GHz ~ 3 GHz	Fig.A.6.2.47	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.48	P	
	6	30 MHz ~1 GHz	Fig.A.6.2.49	P	
		1 GHz ~ 3 GHz	Fig.A.6.2.50	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.51	P	
	6	18 GHz~ 26.5 GHz	Fig.A.6.2.52	P	
		Power	2.45GHz ~2.5GHz	Fig.A.6.2.53	P
		9	1 GHz ~ 3 GHz	Fig.A.6.2.54	P
	3 GHz ~ 18 GHz		Fig.A.6.2.55	P	
	12	1 GHz ~ 3 GHz	Fig.A.6.2.56	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.57	P	
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.58	P	
	13	1 GHz ~ 3 GHz	Fig.A.6.2.59	P	
		3 GHz ~ 18 GHz	Fig.A.6.2.60	P	

Conclusion: Pass

Measurement Uncertainty:

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

Note:

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

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

The measurement results are obtained as described below:

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

802.11b

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
2390.000	33.9	-38.8	27.7	45.000	V
17979.000	43.0	-17.7	45.6	15.100	H
17982.000	42.7	-17.7	45.6	14.800	V
17998.500	42.7	-17.7	45.6	14.800	H
17989.500	42.6	-17.7	45.6	14.700	V
17992.500	42.6	-17.7	45.6	14.700	V

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17982.000	42.5	-17.7	45.6	14.600	V
17986.500	42.5	-17.7	45.6	14.600	V
17976.000	42.3	-17.7	45.6	14.400	V
17998.500	42.3	-17.7	45.6	14.400	V
17979.000	42.3	-17.7	45.6	14.400	V
17989.500	42.3	-17.7	45.6	14.400	V

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
2483.500	31.7	-38.9	27.7	42.900	V
17976.000	42.5	-17.7	45.6	14.600	V
17982.000	42.3	-17.7	45.6	14.400	V
17965.500	42.3	-17.7	45.6	14.400	V
17989.500	42.3	-17.7	45.6	14.400	H
17992.500	42.2	-17.7	45.6	14.300	V

Ch12

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.500	32.7	-38.9	27.7	43.900	H
17982.000	43.6	-17.7	45.6	15.700	V
17766.000	43.5	-18.5	45.6	16.400	V
17979.000	43.5	-17.7	45.6	15.600	H
17962.500	43.2	-17.7	45.6	15.300	V
17965.500	43.2	-17.7	45.6	15.300	V

Ch13

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2484.630	35.6	-38.9	27.7	46.800	V
17803.500	42.3	-18.5	45.6	15.200	V
17949.000	42.3	-17.7	45.6	14.400	H
17779.500	42.2	-18.5	45.6	15.100	V
17992.500	42.2	-17.7	45.6	14.300	V
17965.500	42.2	-17.7	45.6	14.300	V

802.11g

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2390.000	43.2	-38.8	27.7	54.300	H
17982.000	42.7	-17.7	45.6	14.800	V
17992.500	42.4	-17.7	45.6	14.500	V
17965.500	42.3	-17.7	45.6	14.400	H
17989.500	42.2	-17.7	45.6	14.300	V
17962.500	42.1	-17.7	45.6	14.200	V

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17982.000	42.7	-17.7	45.6	14.800	V
17976.000	42.4	-17.7	45.6	14.500	V
17992.500	42.3	-17.7	45.6	14.400	V
17989.500	42.3	-17.7	45.6	14.400	V
17995.500	42.3	-17.7	45.6	14.400	V
17979.000	42.3	-17.7	45.6	14.400	V

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.587	32.3	-38.9	27.7	43.500	V
17979.000	42.4	-17.7	45.6	14.500	V
17992.500	42.4	-17.7	45.6	14.500	H
17986.500	42.3	-17.7	45.6	14.400	H
17989.500	42.3	-17.7	45.6	14.400	V
17976.000	42.2	-17.7	45.6	14.300	V

Ch12

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.500	33.3	-38.9	27.7	44.500	V
17989.500	42.6	-17.7	45.6	14.700	V
17995.500	42.5	-17.7	45.6	14.600	H
17965.500	42.3	-17.7	45.6	14.400	H
17998.500	42.3	-17.7	45.6	14.400	V
17982.000	42.3	-17.7	45.6	14.400	V

Ch13

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.500	35.3	-38.9	27.7	46.500	V
17982.000	42.3	-17.7	45.6	14.400	V
17766.000	42.0	-18.5	45.6	14.900	H
17965.500	42.0	-17.7	45.6	14.100	V
17995.500	42.0	-17.7	45.6	14.100	V
17992.500	42.0	-17.7	45.6	14.100	V

802.11n-HT20

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2390.000	36.4	-38.8	27.7	47.500	V
17982.000	42.5	-17.7	45.6	14.600	V
17976.000	42.2	-17.7	45.6	14.300	H
17992.500	42.0	-17.7	45.6	14.100	V
17995.500	41.9	-17.7	45.6	14.000	V
17989.500	41.9	-17.7	45.6	14.000	V

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17979.000	42.5	-17.7	45.6	14.600	V
17986.500	42.5	-17.7	45.6	14.600	H
17992.500	42.3	-17.7	45.6	14.400	V
17998.500	42.2	-17.7	45.6	14.300	V
17989.500	42.1	-17.7	45.6	14.200	H
17982.000	42.1	-17.7	45.6	14.200	V

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.537	31.8	-38.9	27.7	43.000	V
17959.500	42.4	-17.7	45.6	14.500	V
17982.000	42.3	-17.7	45.6	14.400	V
17992.500	42.3	-17.7	45.6	14.400	H
17989.500	42.2	-17.7	45.6	14.300	V
17949.000	42.1	-17.7	45.6	14.200	V

Ch12

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.500	32.9	-38.9	27.7	44.100	V
17803.500	42.3	-18.5	45.6	15.200	V
17949.000	42.3	-17.7	45.6	14.400	H
17779.500	42.2	-18.5	45.6	15.100	V
17992.500	42.2	-17.7	45.6	14.300	V
17965.500	42.2	-17.7	45.6	14.300	V

Ch13

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.500	33.7	-38.9	27.7	44.900	V
17803.500	42.3	-18.5	45.6	15.200	V
17776.500	42.2	-18.5	45.6	15.100	H
17814.000	42.2	-18.5	45.6	15.100	H
17806.500	42.2	-18.5	45.6	15.100	V
17982.000	42.2	-17.7	45.6	14.300	V

802.11n-HT40

Ch3

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.900	38.6	-38.8	27.7	49.700	V
17976.000	42.4	-17.7	45.6	14.500	H
17965.500	42.4	-17.7	45.6	14.500	V
17992.500	42.3	-17.7	45.6	14.400	V
17979.000	42.2	-17.7	45.6	14.300	H
17989.500	42.2	-17.7	45.6	14.300	V

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17962.500	42.3	-17.7	45.6	14.400	V
17986.500	42.3	-17.7	45.6	14.400	H
17982.000	42.2	-17.7	45.6	14.300	V
17995.500	42.1	-17.7	45.6	14.200	V
17992.500	42.1	-17.7	45.6	14.200	H
17998.500	42.1	-17.7	45.6	14.200	V

Ch9

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.556	35.2	-38.9	27.7	46.400	V
17982.000	42.2	-17.7	45.6	14.300	H
17976.000	42.2	-17.7	45.6	14.300	H
17995.500	42.2	-17.7	45.6	14.300	V
17989.500	42.1	-17.7	45.6	14.200	V
17992.500	42.1	-17.7	45.6	14.200	V

Ch10

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.500	43.9	-38.9	27.7	55.100	V
17989.500	42.3	-17.7	45.6	11.400	H
17779.500	42.2	-18.5	45.6	12.100	V
17992.500	42.1	-17.7	45.6	11.200	V
17979.000	42.1	-17.7	45.6	11.200	V
17806.500	42.1	-18.5	45.6	12.000	V

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.500	43.5	-38.9	27.7	54.700	V
17982.000	42.3	-17.7	45.6	11.400	V
17806.500	42.3	-18.5	45.6	12.200	H
17979.000	42.3	-17.7	45.6	11.400	H
17766.000	42.3	-18.5	45.6	12.200	V
17995.500	42.2	-17.7	45.6	11.300	V

Test graphs as below:

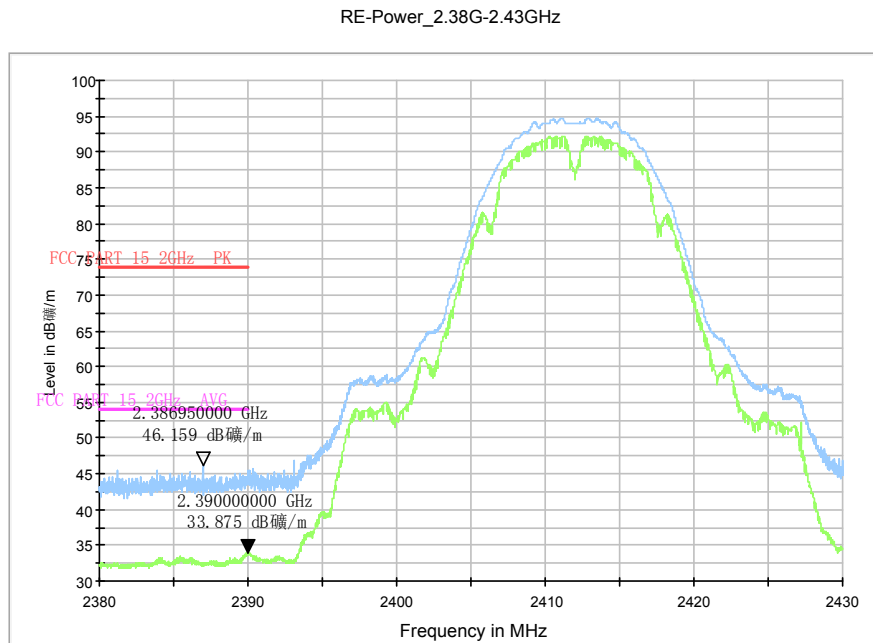


Fig.A.6.2.1 Radiated Spurious Emission (Power): 802.11b, ch1, 2.38 GHz – 2.45GHz

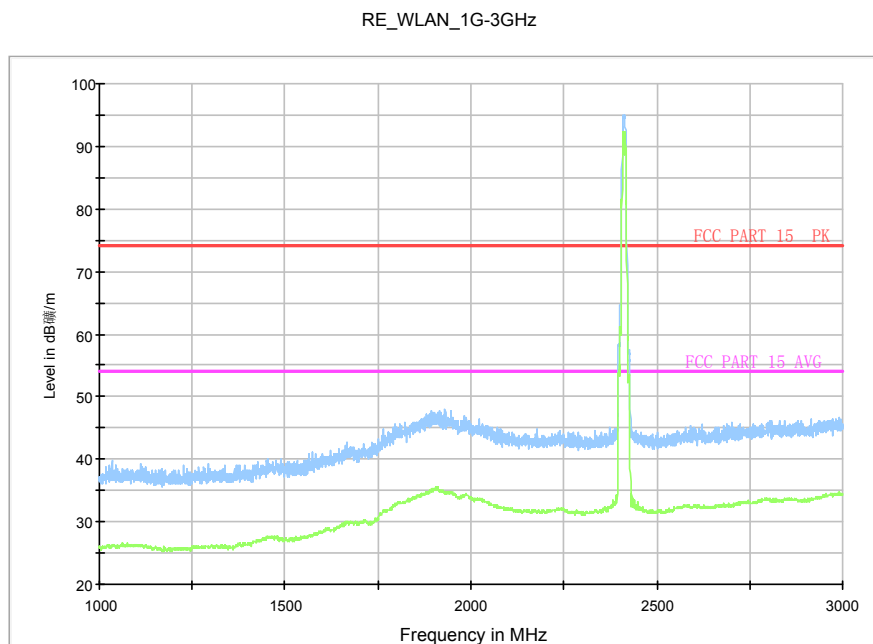


Fig.A.6.2.2 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-3 GHz)

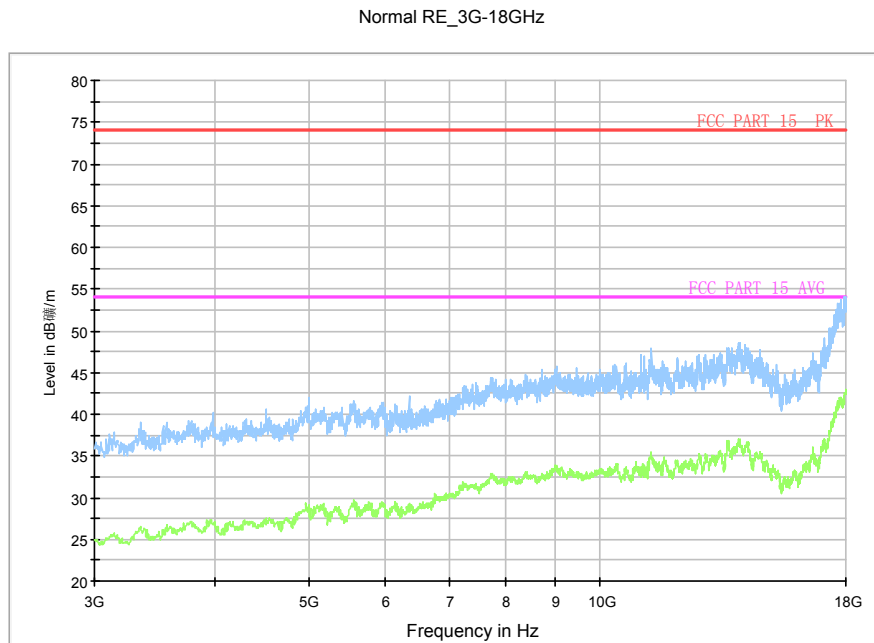


Fig.A.6.2.3 Radiated Spurious Emission (802.11b, Ch1, 3 GHz-18 GHz)

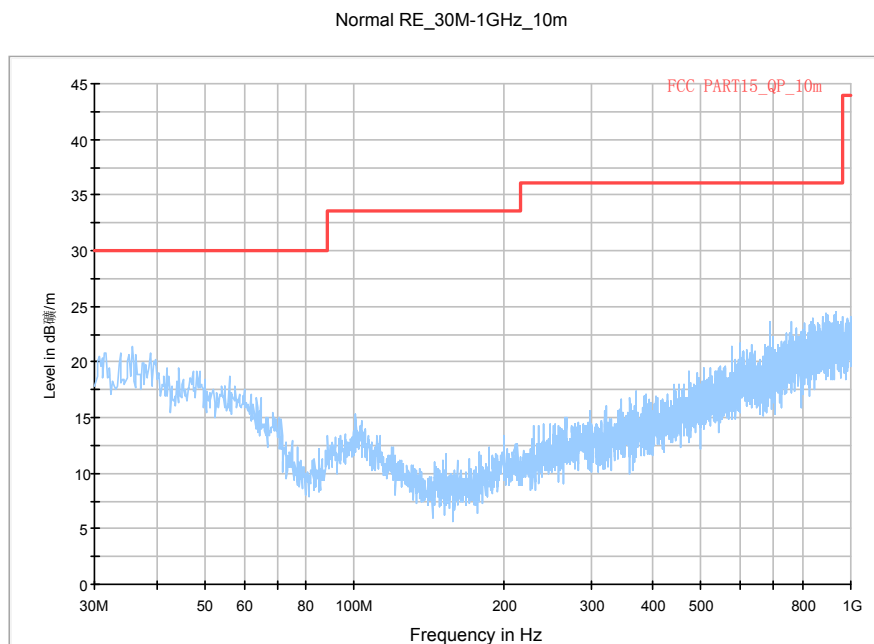


Fig.A.6.2.4 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)

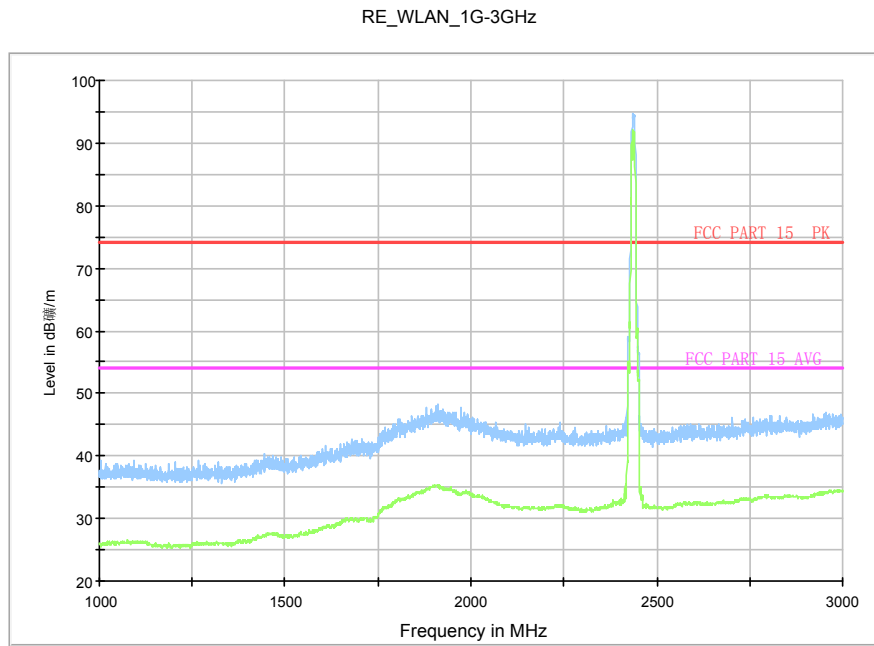


Fig.A.6.2.5 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-3 GHz)

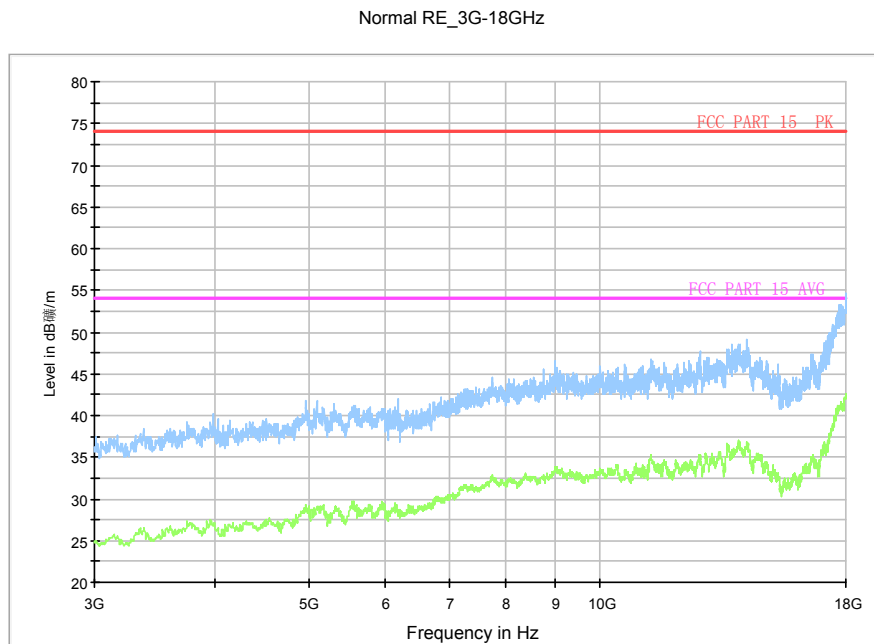


Fig.A.6.2.6 Radiated Spurious Emission (802.11b, Ch6, 3 GHz-18 GHz)

Normal RE_18G-26.5GHz

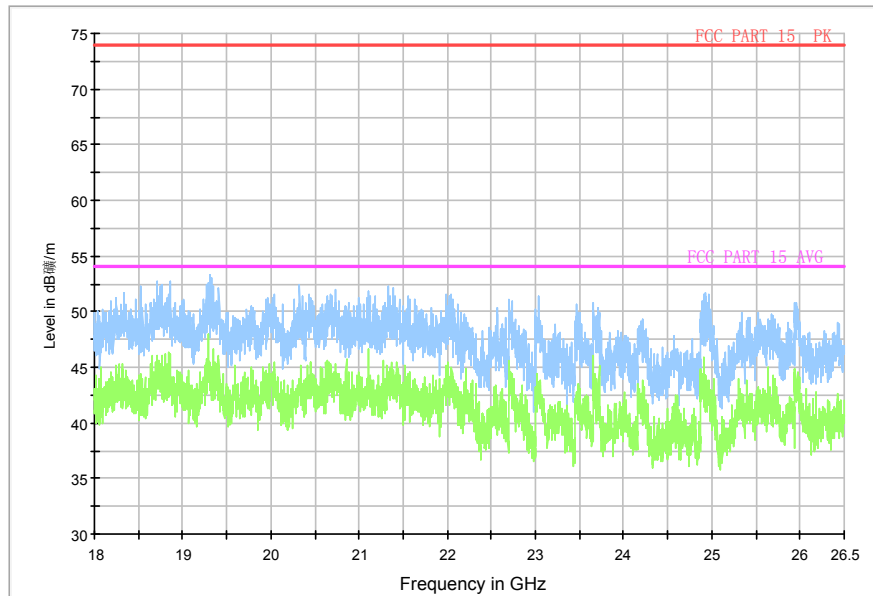


Fig.A.6.2.7 Radiated Spurious Emission (802.11b, Ch6, 18GHz – 26.5GHz)

RE-Power_2.45G-2.5GHz

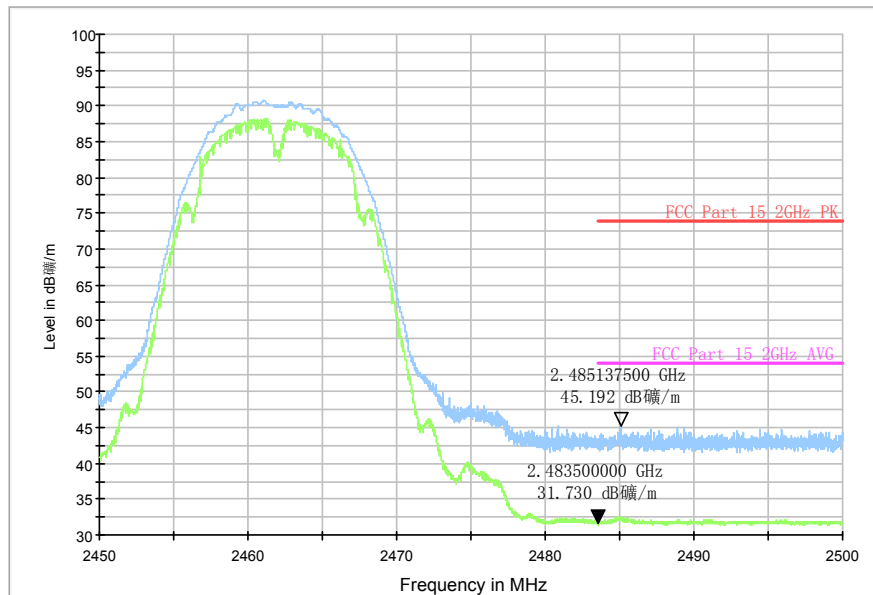


Fig.A.6.2.8 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

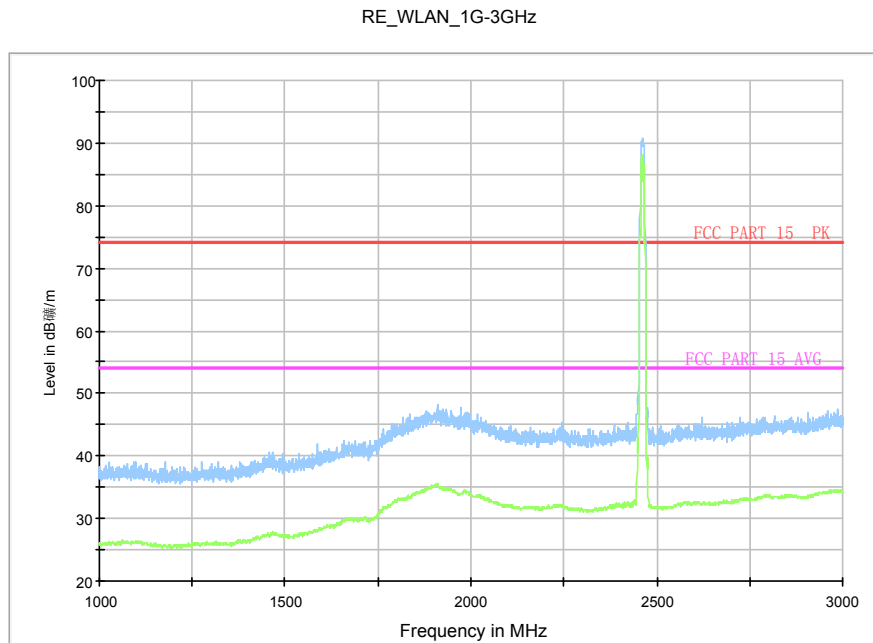


Fig.A.6.2.9 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-3 GHz)

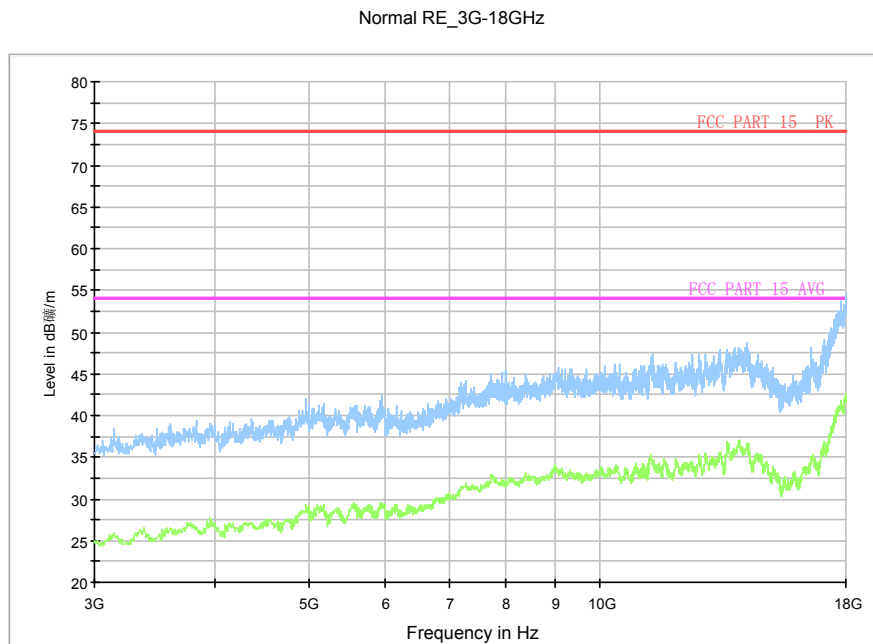


Fig.A.6.2.10 Radiated Spurious Emission (802.11b, Ch11, 3 GHz-18 GHz)

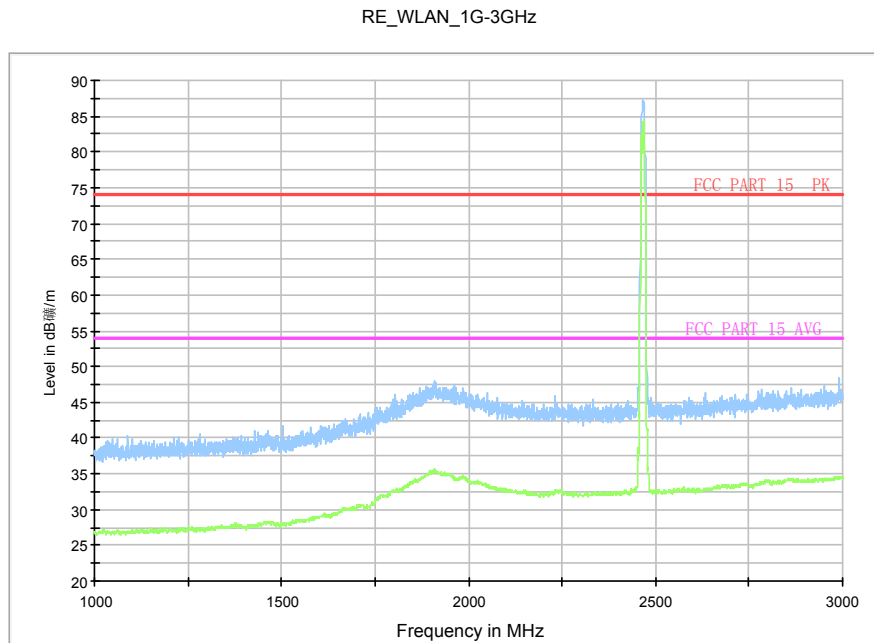


Fig.A.6.2.11 Radiated Spurious Emission (802.11b, Ch12, 1 GHz-3 GHz)

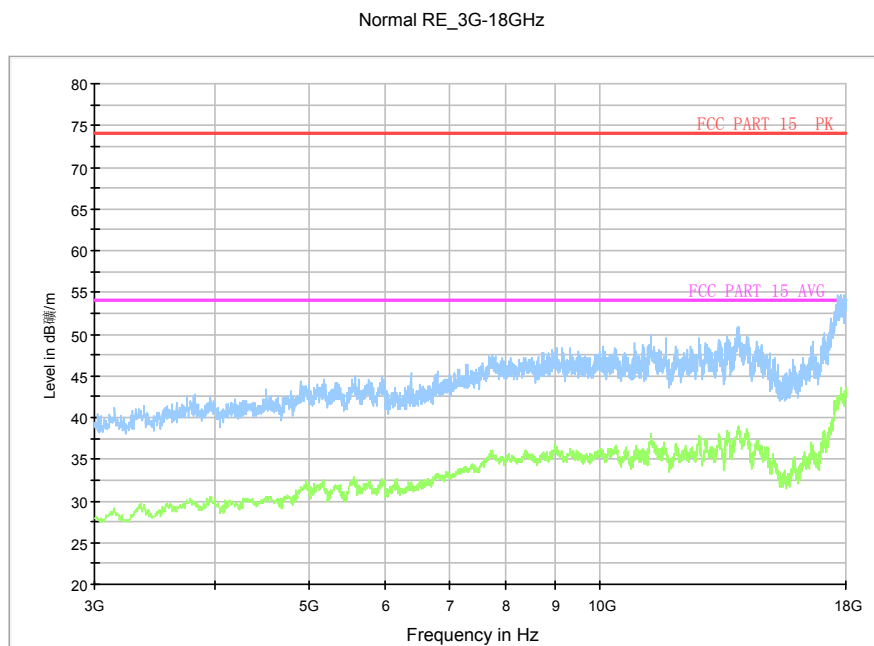


Fig.A.6.2.12 Radiated Spurious Emission (802.11b, Ch12, 3 GHz-18 GHz)

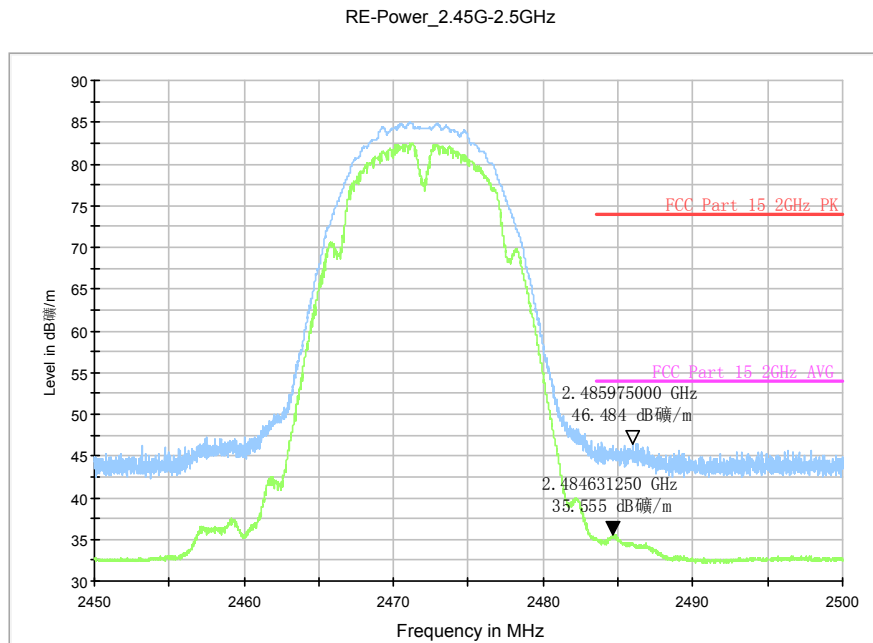


Fig.A.6.2.13 Radiated Spurious Emission (Power): 802.11b, ch13, 2.45 GHz - 2.50GHz

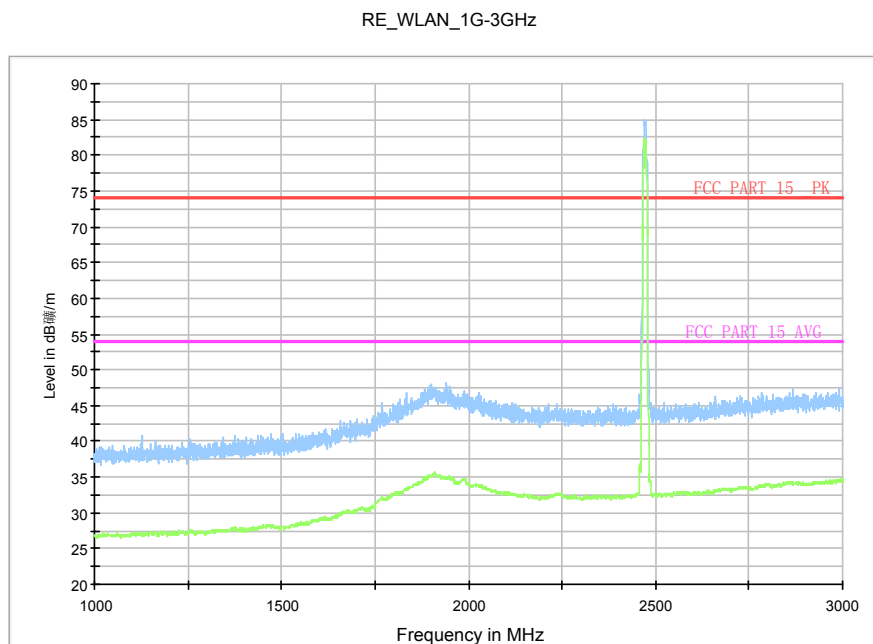


Fig.A.6.2.14 Radiated Spurious Emission (802.11b, Ch13, 1 GHz-3 GHz)

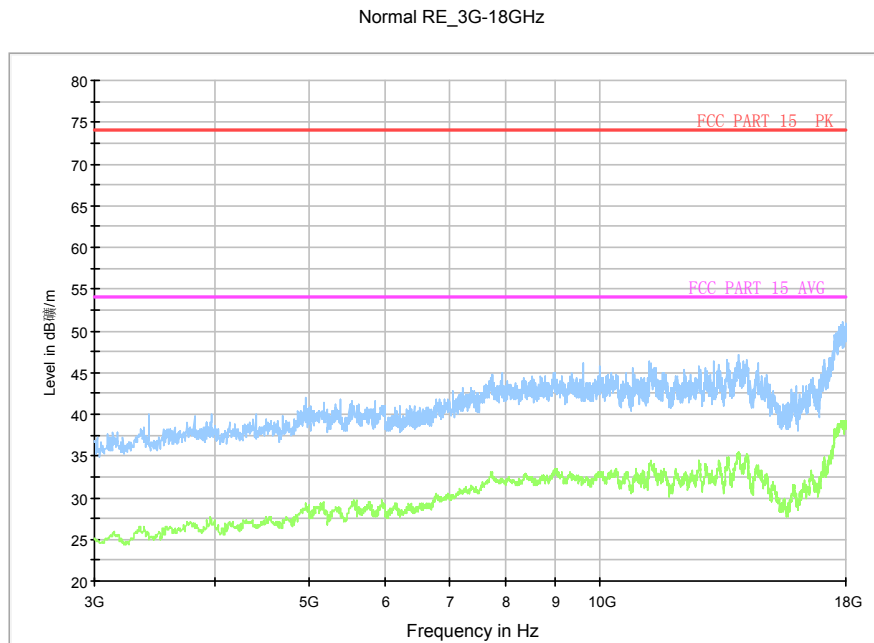


Fig.A.6.2.15 Radiated Spurious Emission (802.11b, Ch13, 3 GHz-18 GHz)

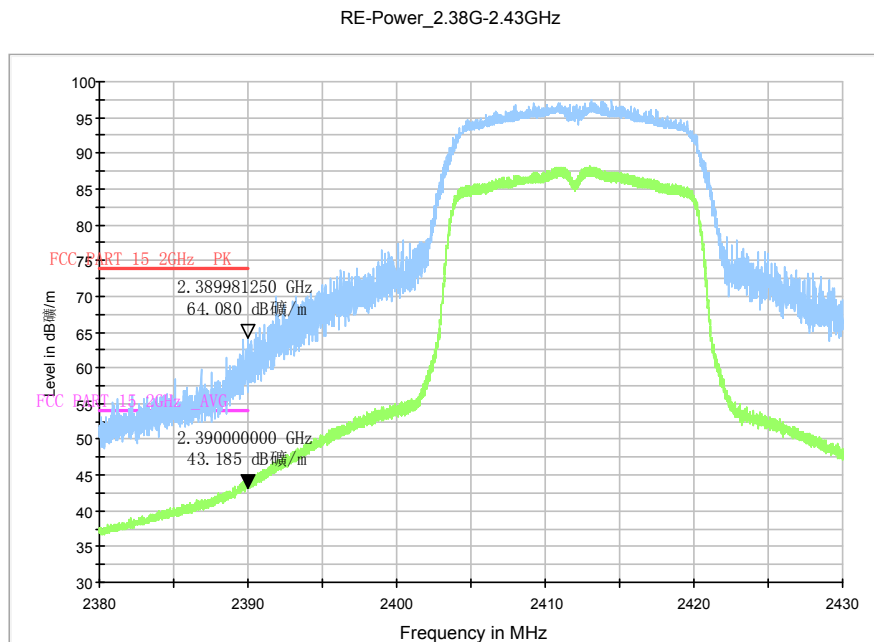


Fig.A.6.2.16 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

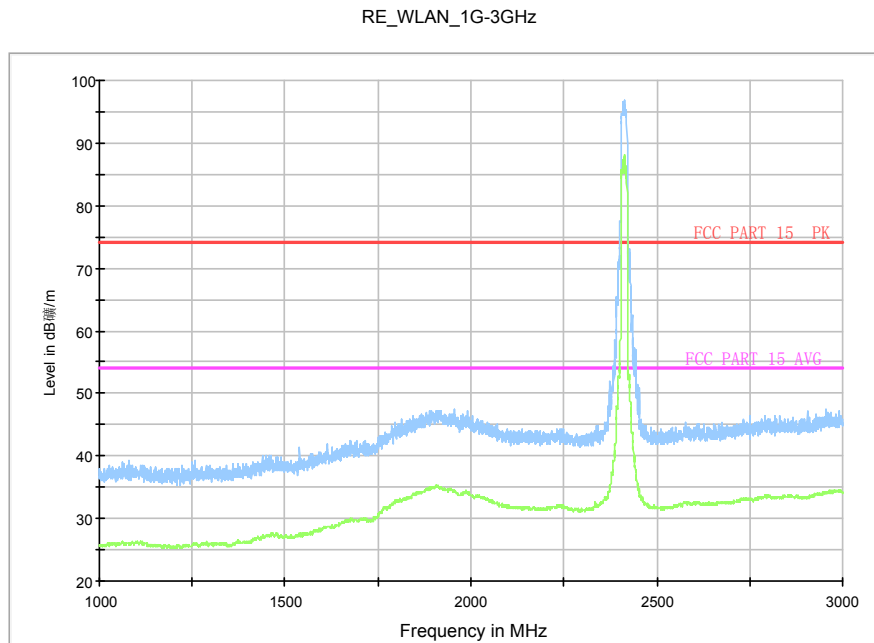


Fig.A.6.2.17 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-3 GHz)

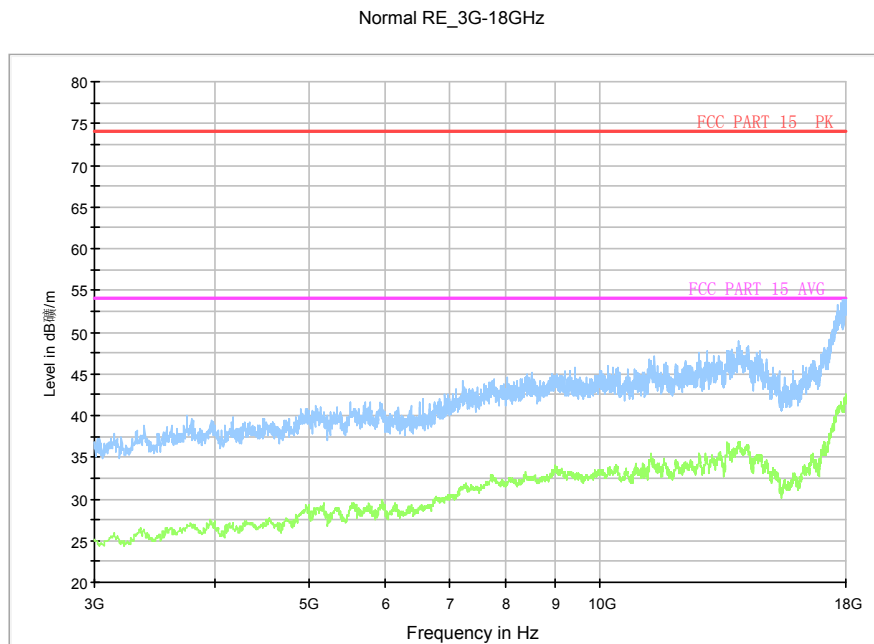


Fig.A.6.2.18 Radiated Spurious Emission (802.11g, Ch1, 3 GHz-18 GHz)

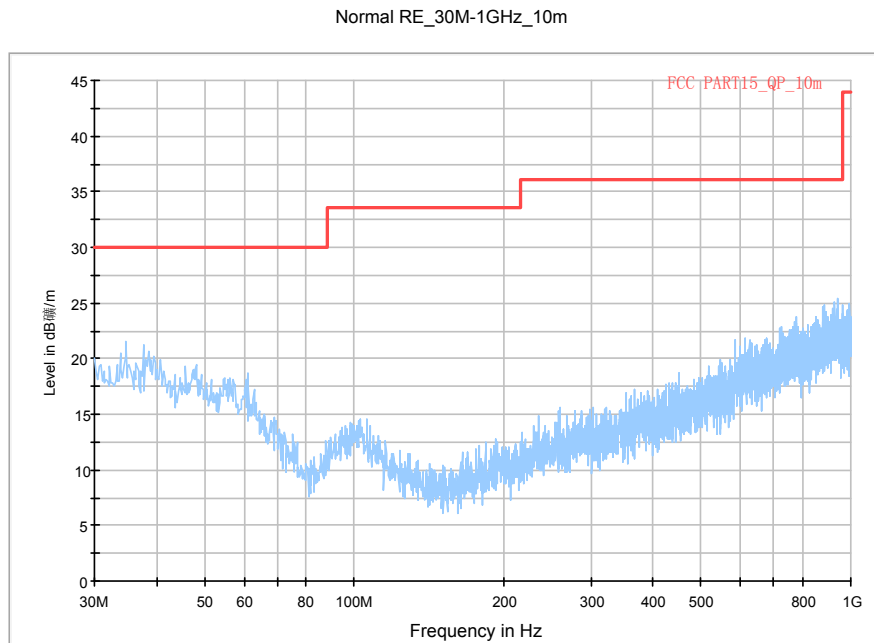


Fig.A.6.2.19 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)

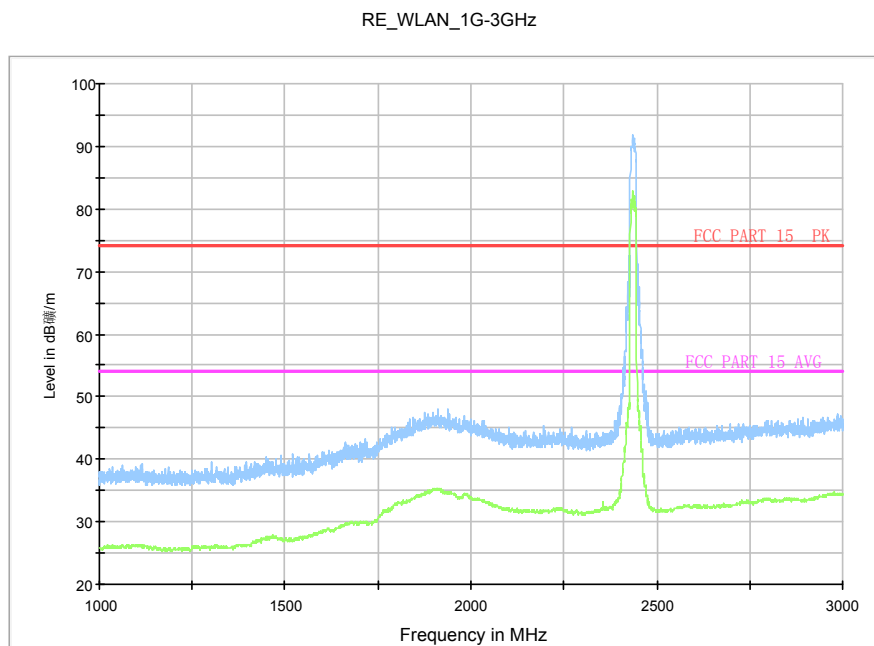


Fig.A.6.2.20 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-3 GHz)

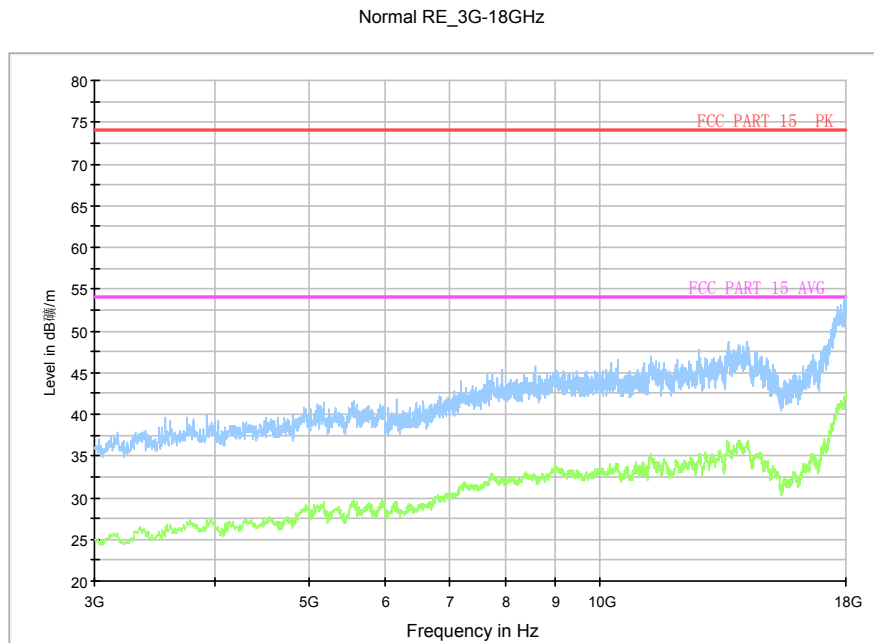


Fig.A.6.2.21 Radiated Spurious Emission (802.11g, Ch6, 3 GHz-18 GHz)

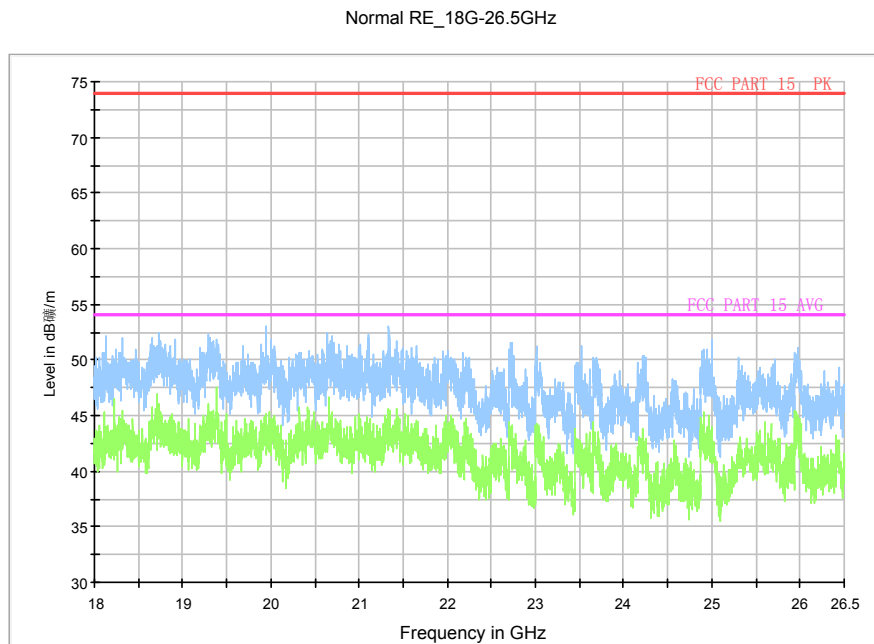


Fig.A.6.2.22 Radiated Spurious Emission (802.11g, Ch6, 18GHz – 26.5GHz)

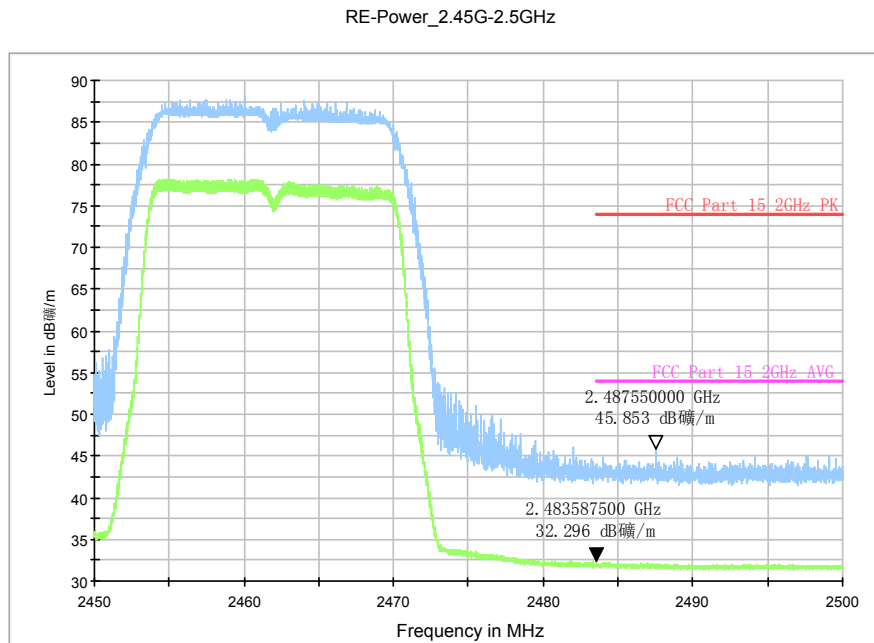


Fig.A.6.2.23 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

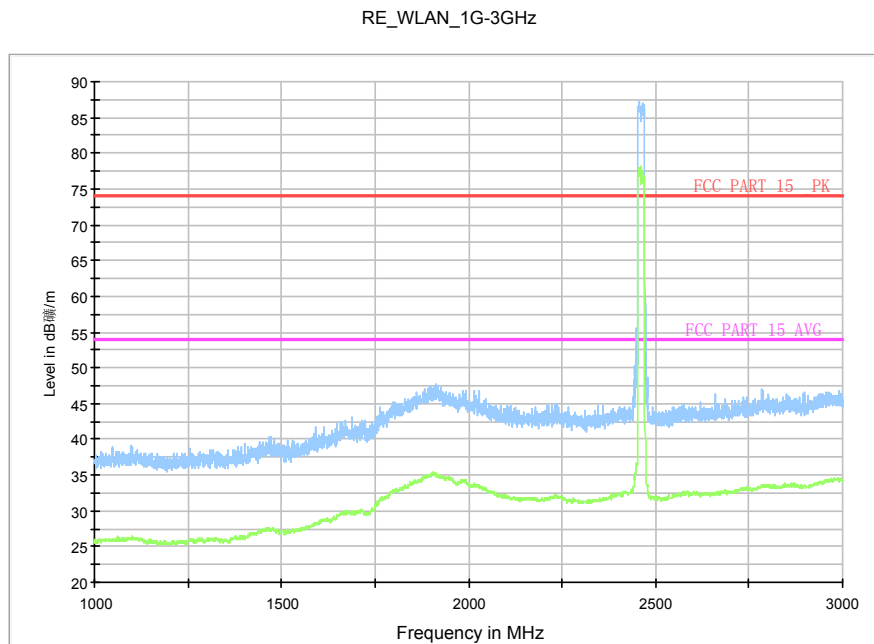


Fig.A.6.2.24 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-3 GHz)

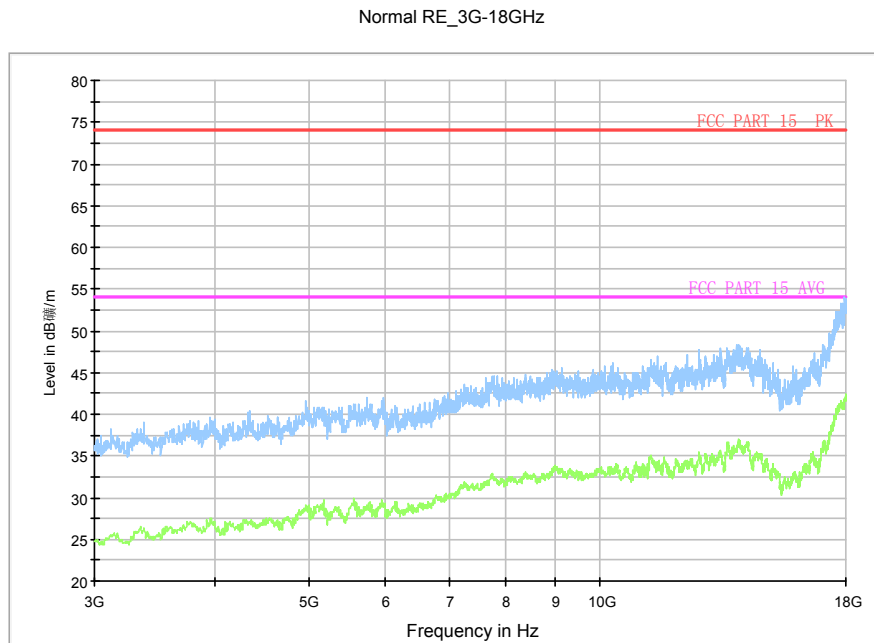


Fig.A.6.2.25 Radiated Spurious Emission (802.11g, Ch11, 3 GHz-18 GHz)

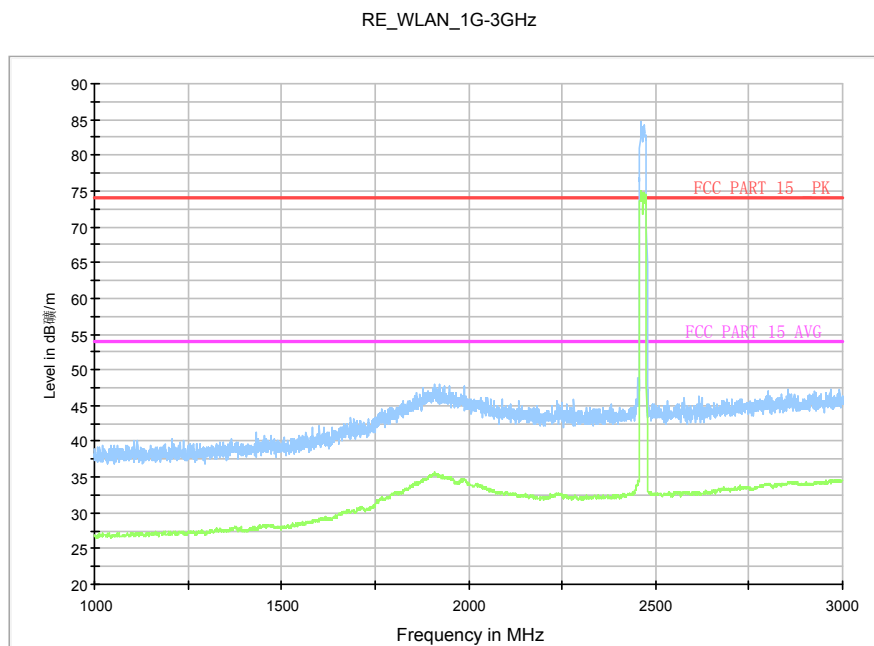


Fig.A.6.2.26 Radiated Spurious Emission (802.11g, Ch12, 1 GHz-3 GHz)

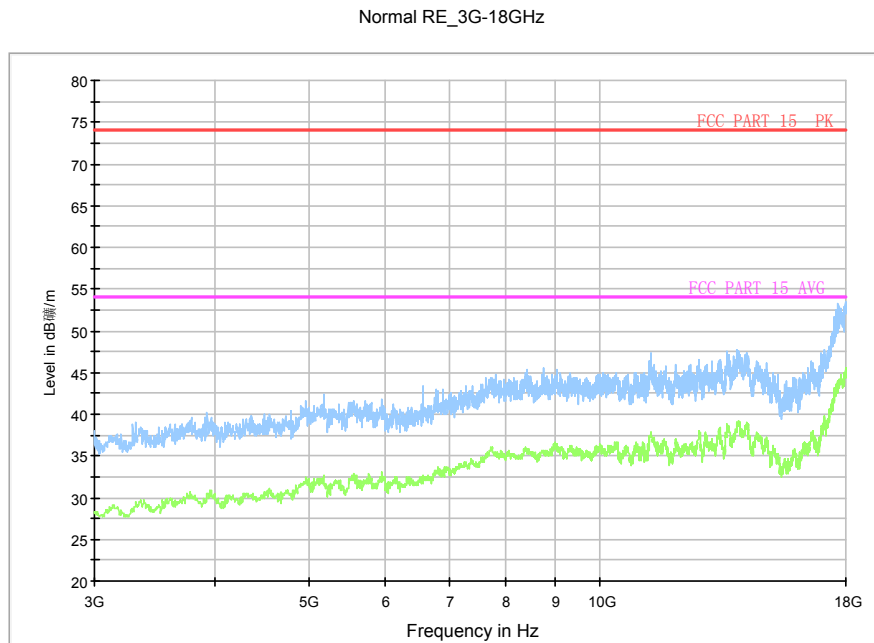


Fig.A.6.2.27 Radiated Spurious Emission (802.11g, Ch12, 3 GHz-18 GHz)

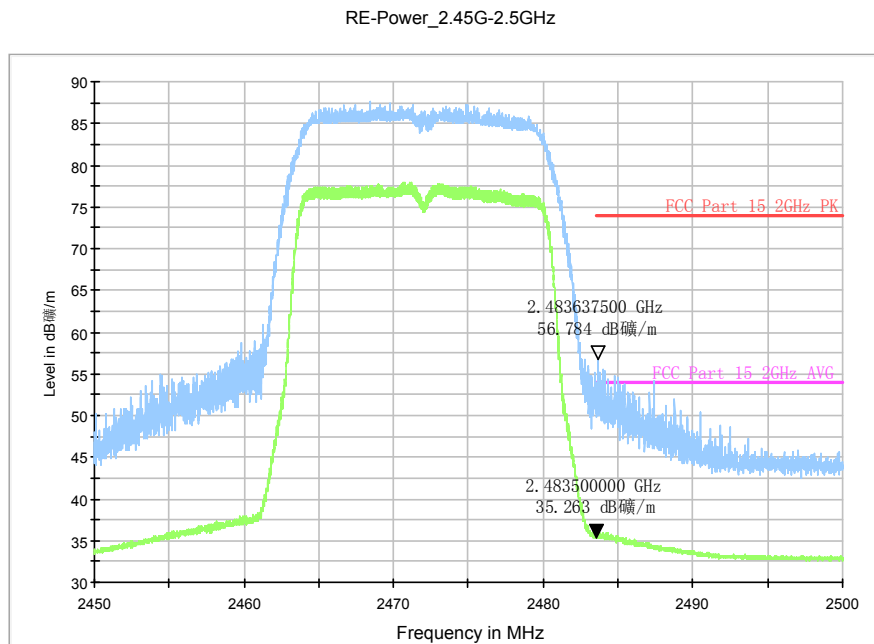


Fig.A.6.2.28 Radiated Spurious Emission (Power): 802.11g, ch13, 2.45 GHz - 2.50GHz

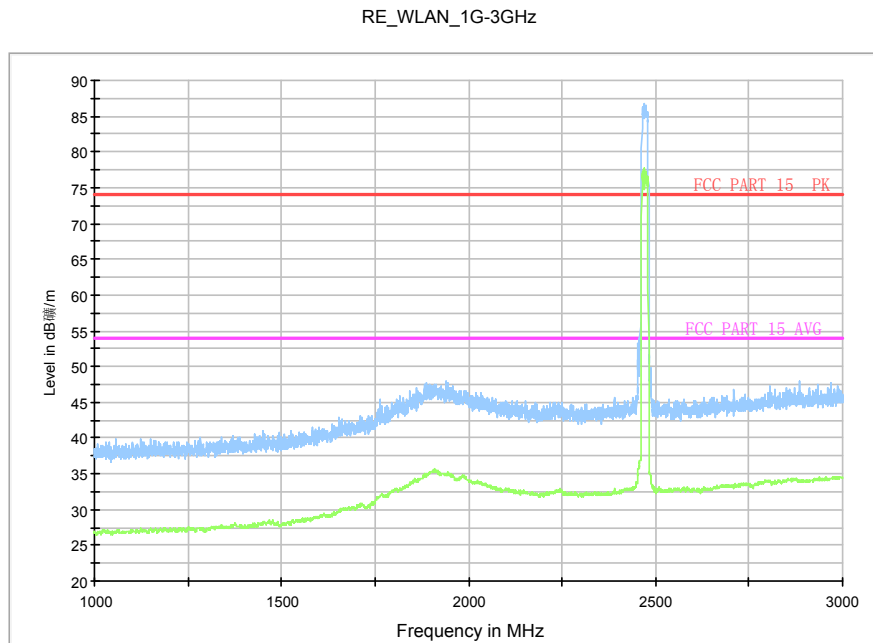


Fig.A.6.2.29 Radiated Spurious Emission (802.11g, Ch13, 1 GHz-3 GHz)

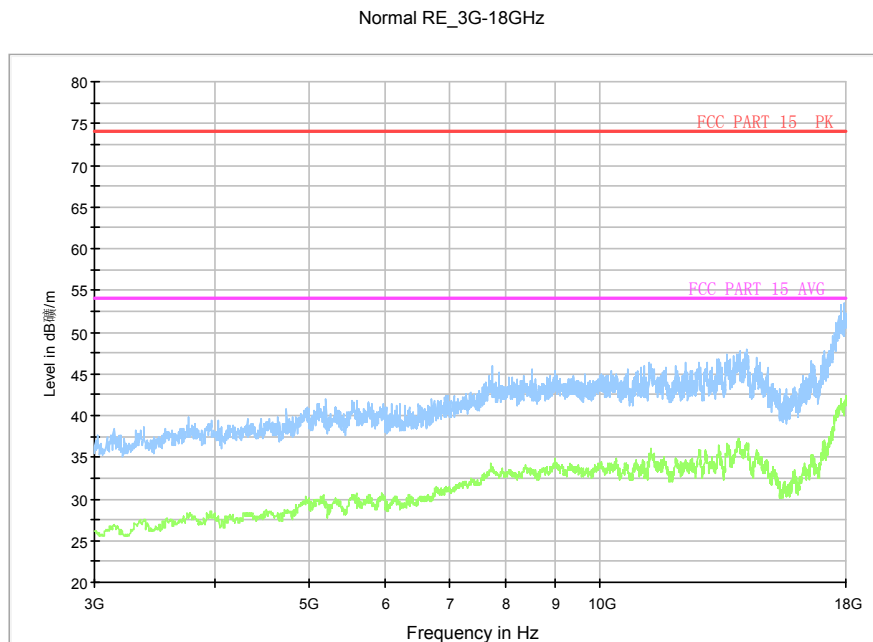


Fig.A.6.2.30 Radiated Spurious Emission (802.11g, Ch13, 3 GHz-18 GHz)

RE-Power_2.38G-2.43GHz

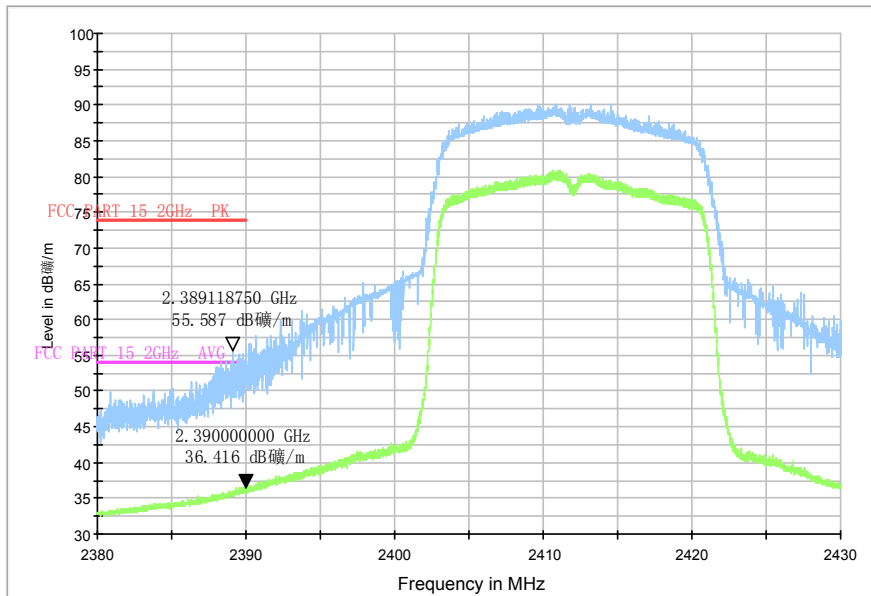


Fig.A.6.2.31 Radiated Spurious Emission (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

RE_WLAN_1G-3GHz

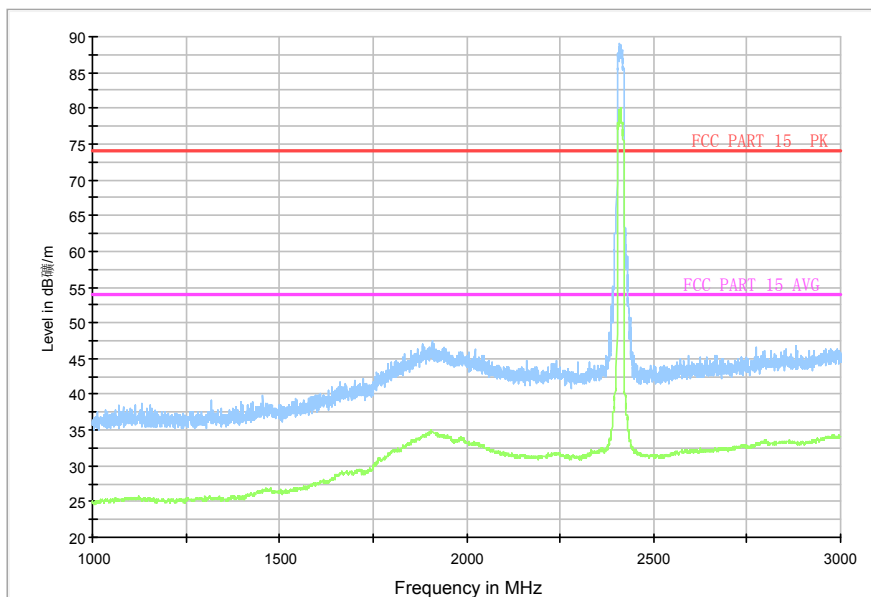


Fig.A.6.2.32 Radiated Spurious Emission (802.11n-HT20, Ch1, 1 GHz-3 GHz)

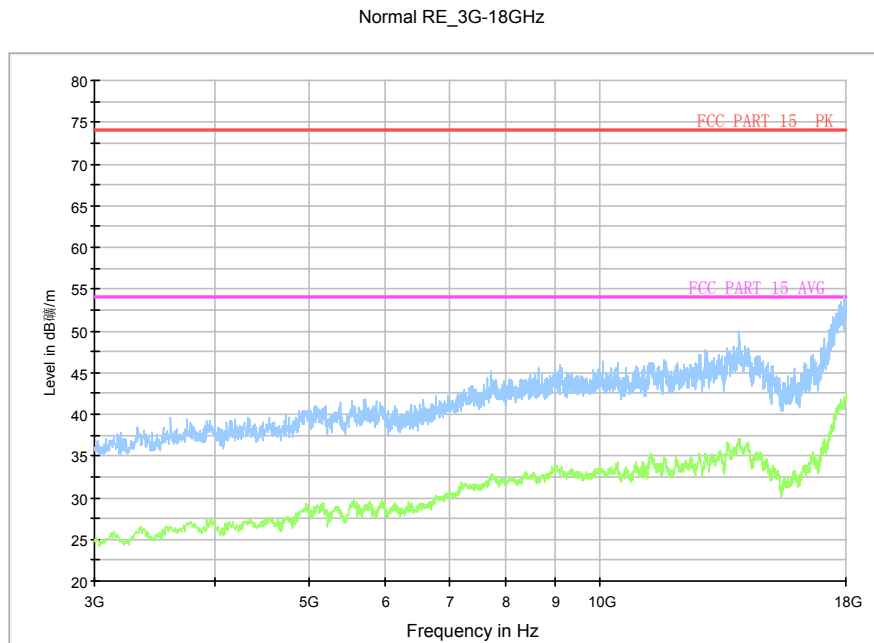


Fig.A.6.2.33 Radiated Spurious Emission (802.11n-HT20, Ch1, 3 GHz-18 GHz)

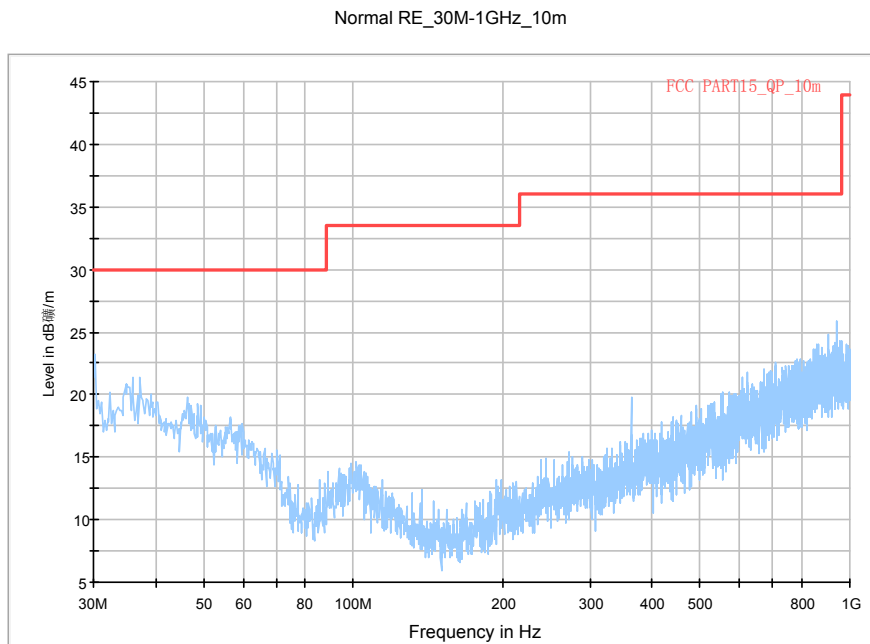


Fig.A.6.2.34 Radiated Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)

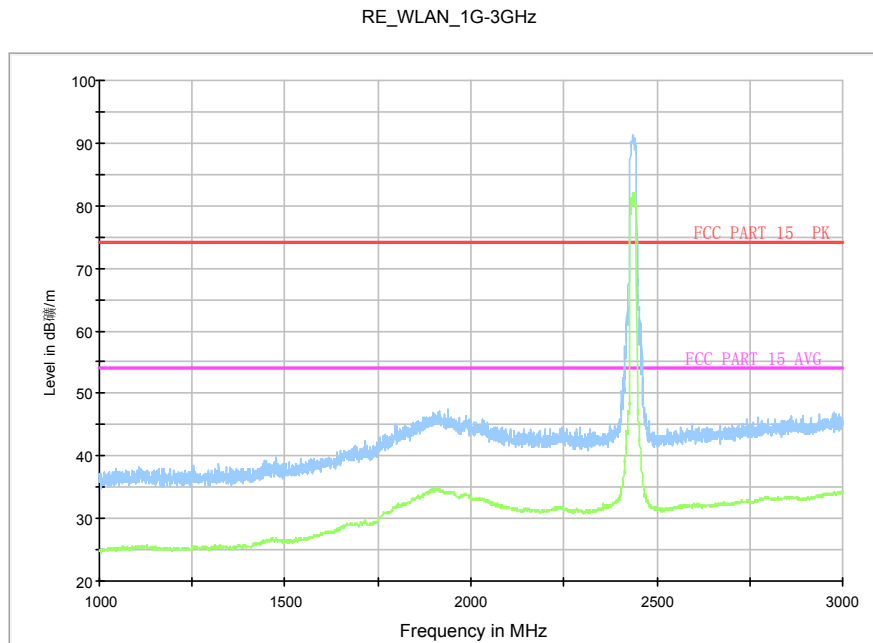


Fig.A.6.2.35 Radiated Spurious Emission (802.11n-HT20, Ch6, 1 GHz-3 GHz)

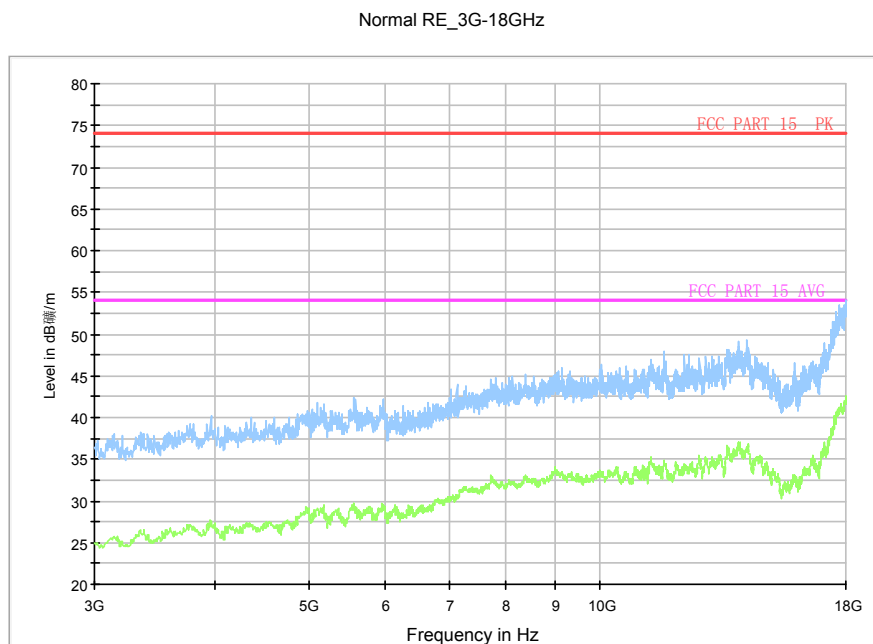


Fig.A.6.2.36 Radiated Spurious Emission (802.11n-HT20, Ch6, 3 GHz-18 GHz)

Normal RE_18G-26.5GHz

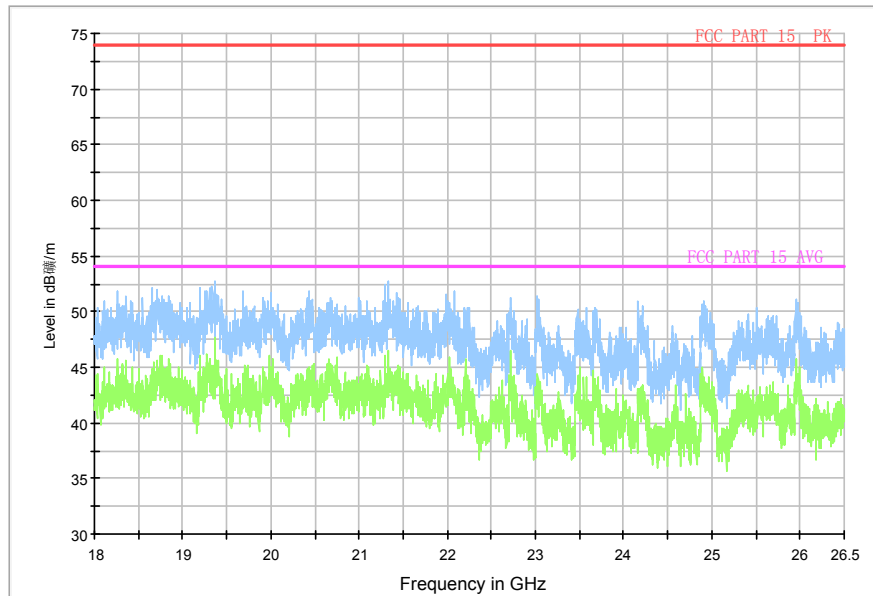


Fig.A.6.2.37 Radiated Spurious Emission (802.11n-HT20, Ch6, 18GHz – 26.5GHz)

RE-Power_2.45G-2.5GHz

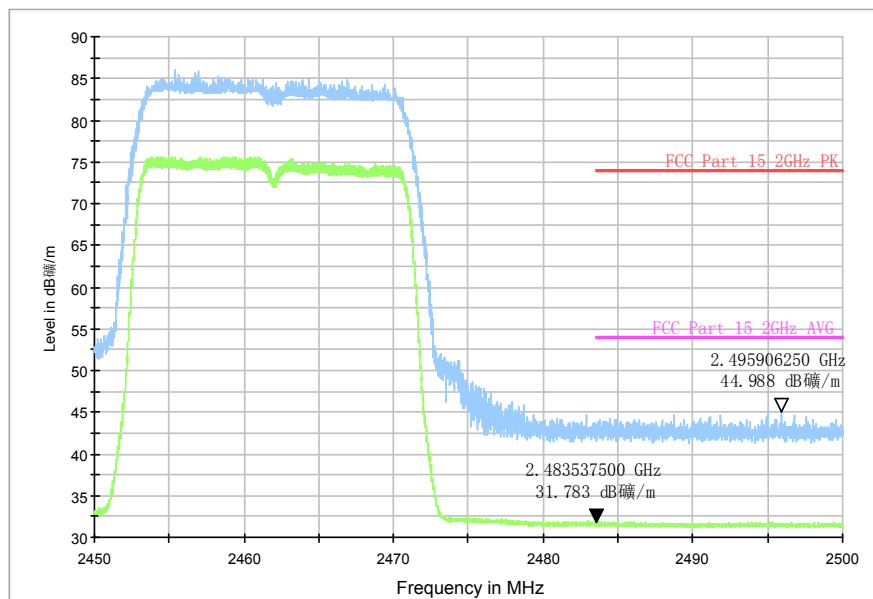


Fig.A.6.2.38 Radiated Spurious Emission (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

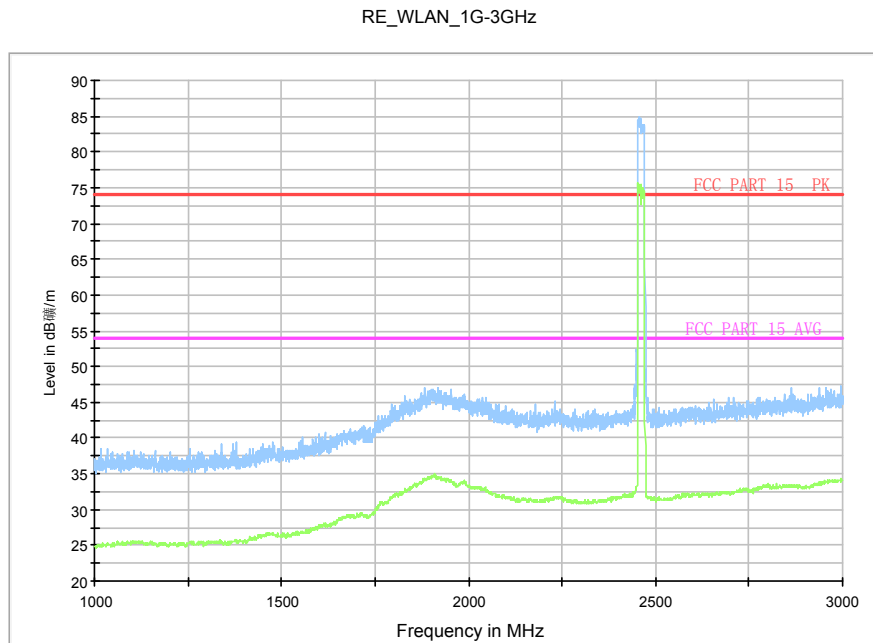


Fig.A.6.2.39 Radiated Spurious Emission (802.11n-HT20, Ch11, 1 GHz-3 GHz)

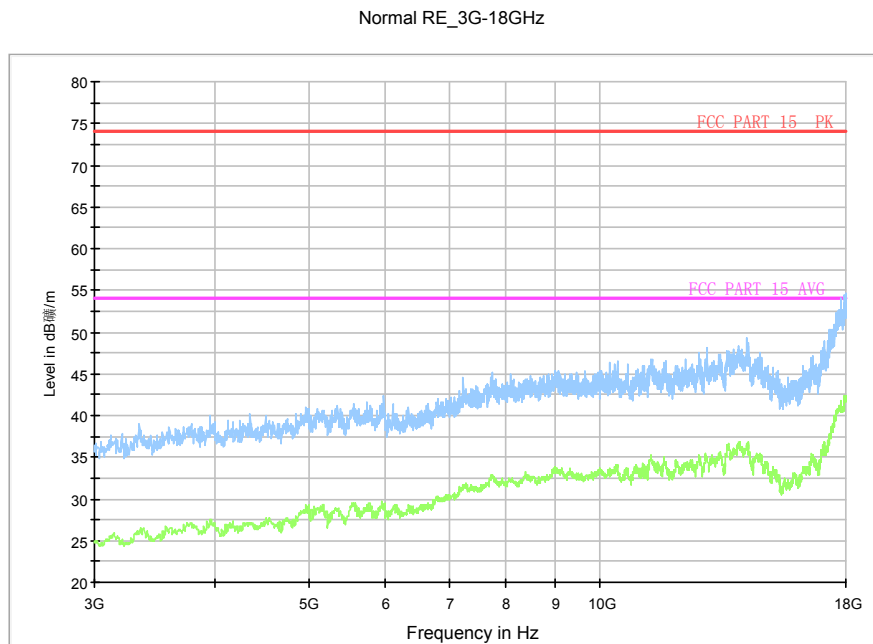


Fig.A.6.2.40 Radiated Spurious Emission (802.11n-HT20, Ch11, 3 GHz-18 GHz)

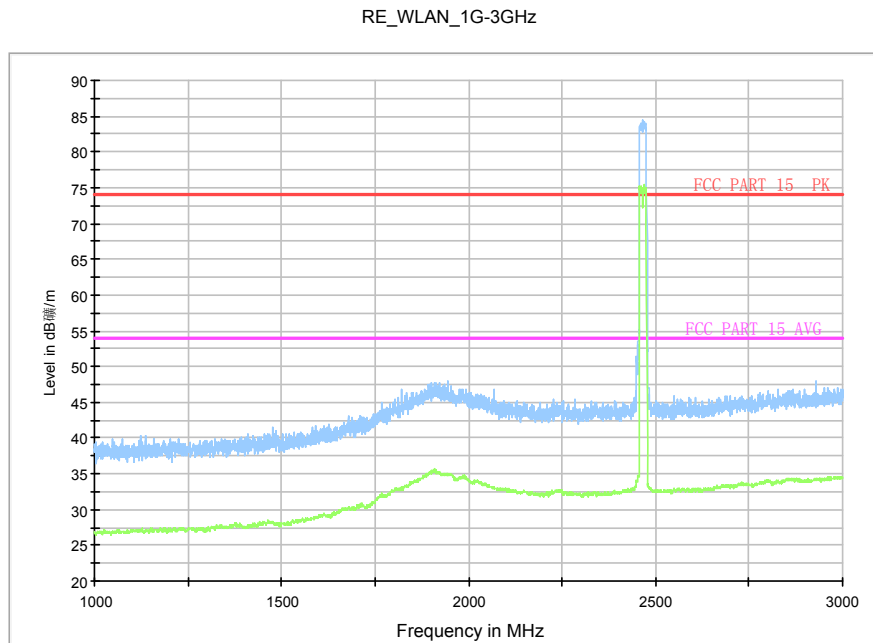


Fig.A.6.2.41 Radiated Spurious Emission (802.11n-HT20, Ch12, 1 GHz-3 GHz)

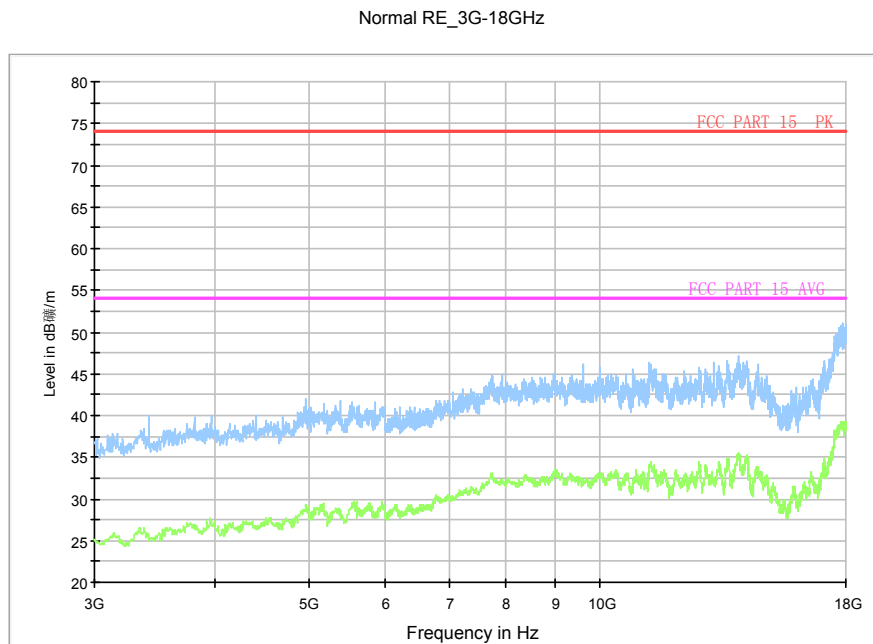


Fig.A.6.2.42 Radiated Spurious Emission (802.11n-HT20, Ch12, 3 GHz-18 GHz)

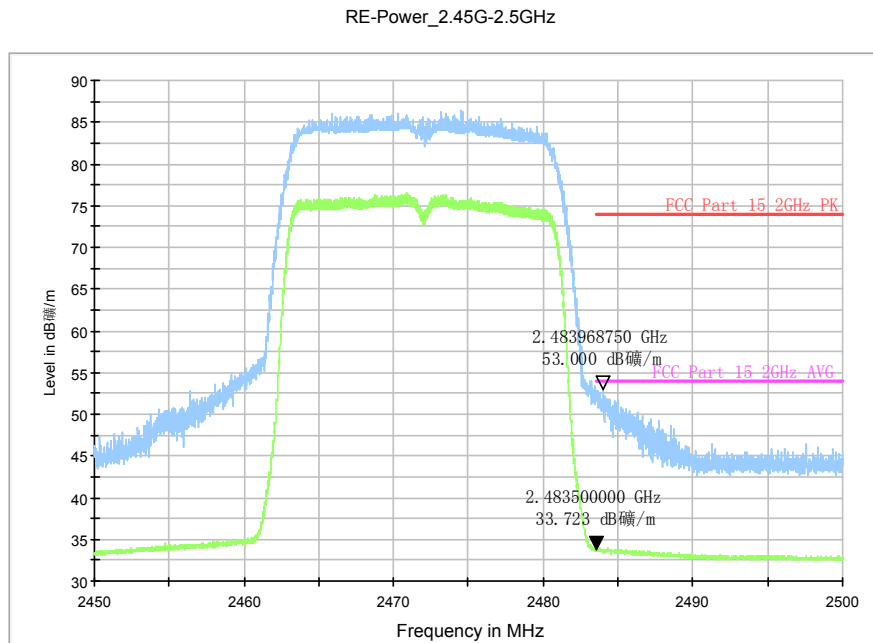


Fig.A.6.2.43 Radiated Spurious Emission (Power): 802.11n-HT20, ch13, 2.45 GHz - 2.50GHz

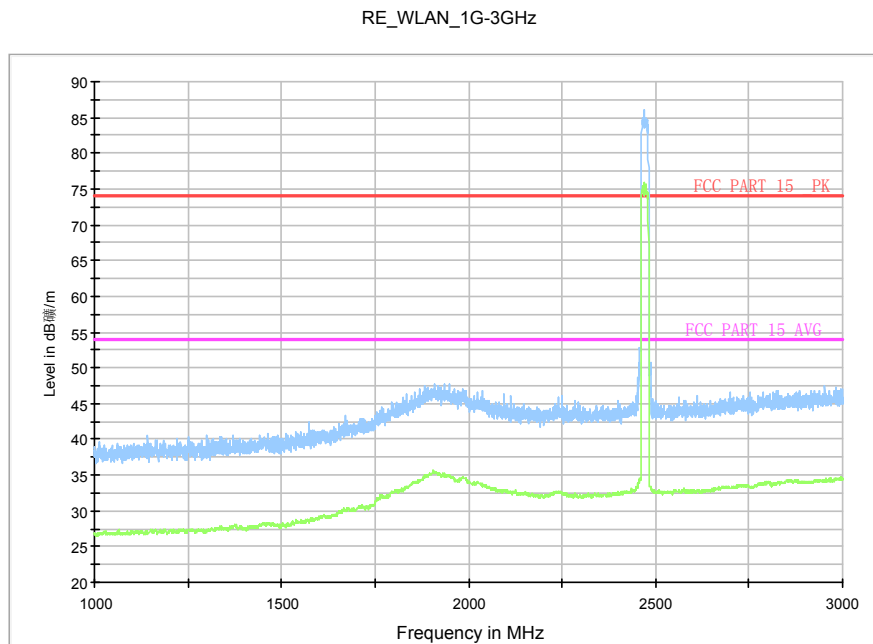


Fig.A.6.2.44 Radiated Spurious Emission (802.11n-HT20, Ch13, 1 GHz-3 GHz)

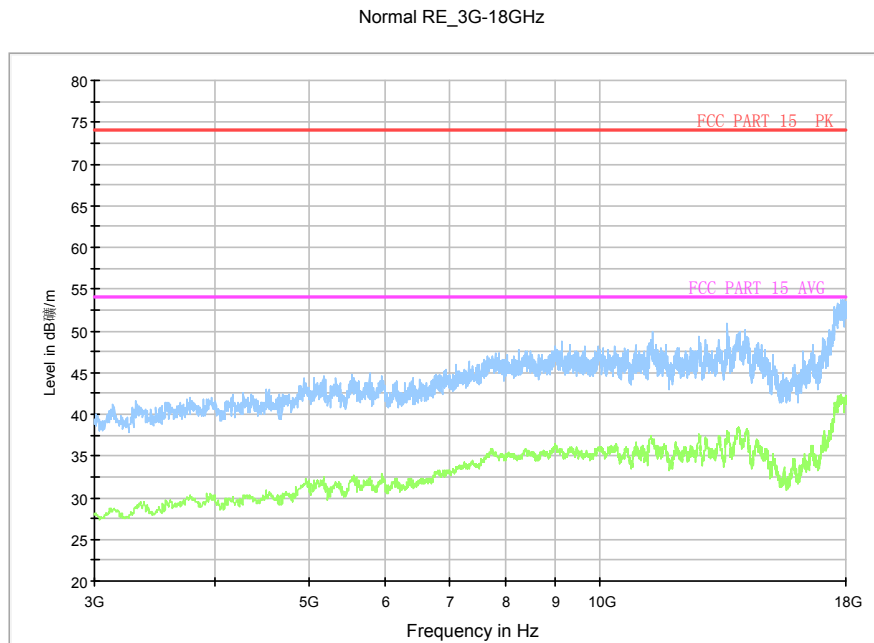


Fig.A.6.2.45 Radiated Spurious Emission (802.11n-HT20, Ch13, 3 GHz-18 GHz)

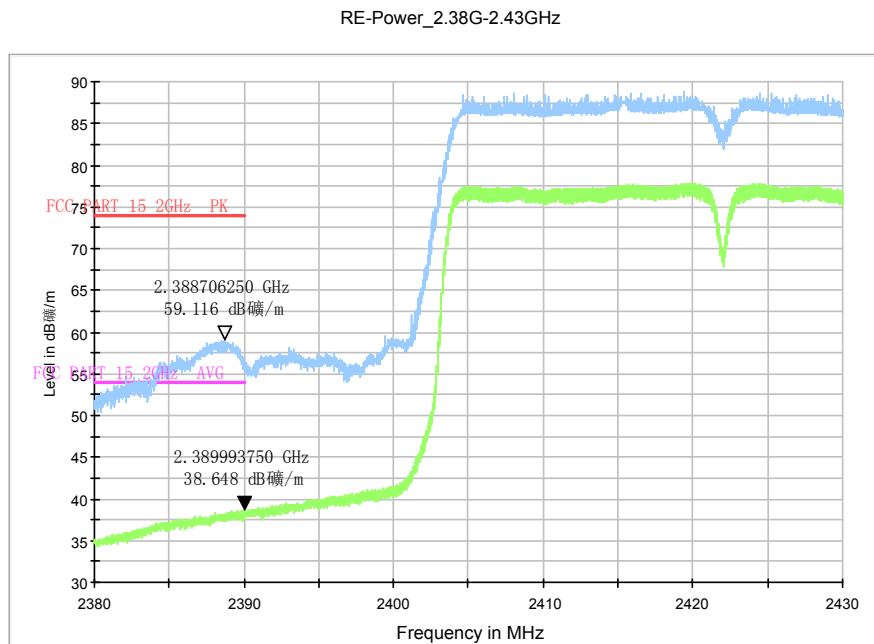


Fig.A.6.2.46 Radiated Spurious Emission (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.45GHz

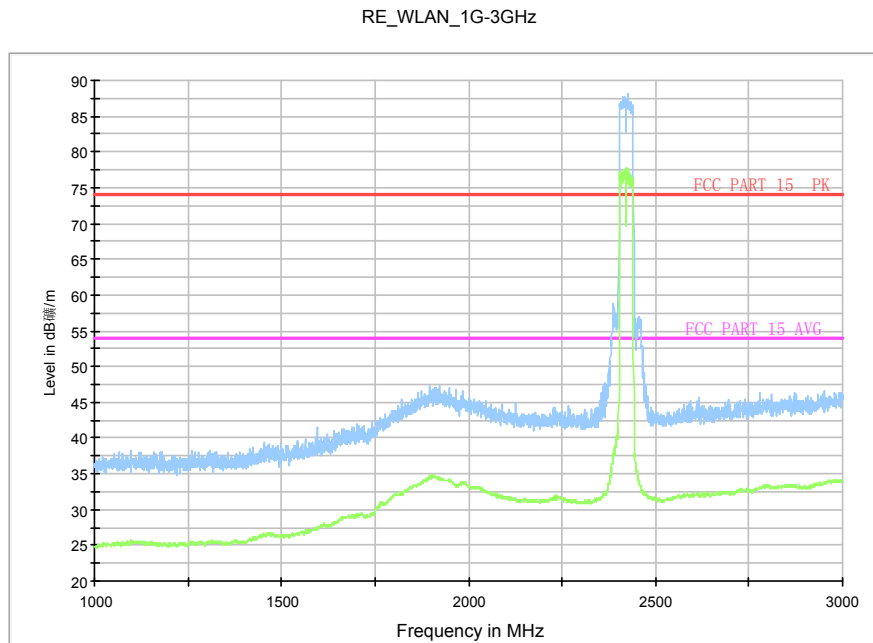


Fig.A.6.2.47 Radiated Spurious Emission (802.11n-HT40, ch3, 1 GHz-3 GHz)

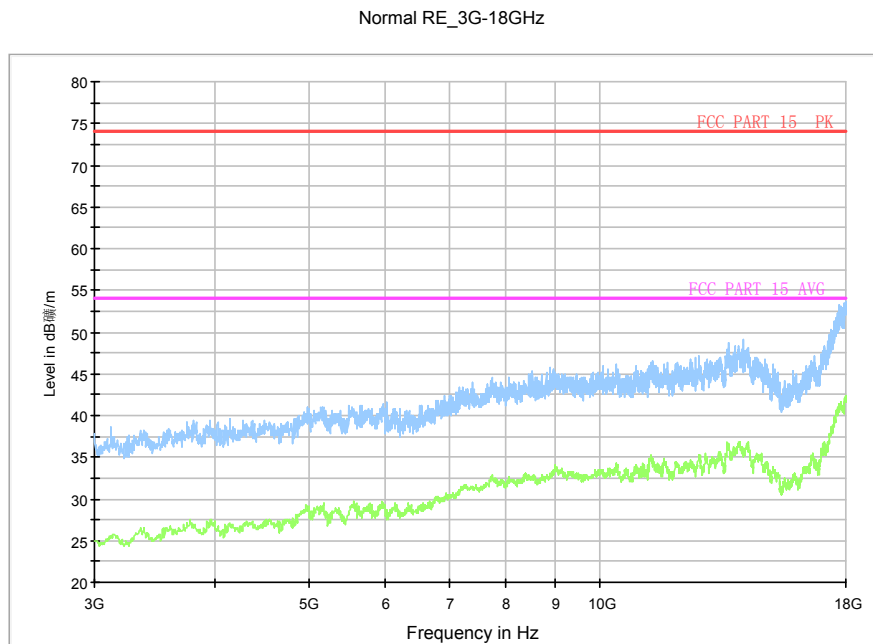


Fig.A.6.2.48 Radiated Spurious Emission (802.11n-HT40, ch3, 3 GHz-18 GHz)

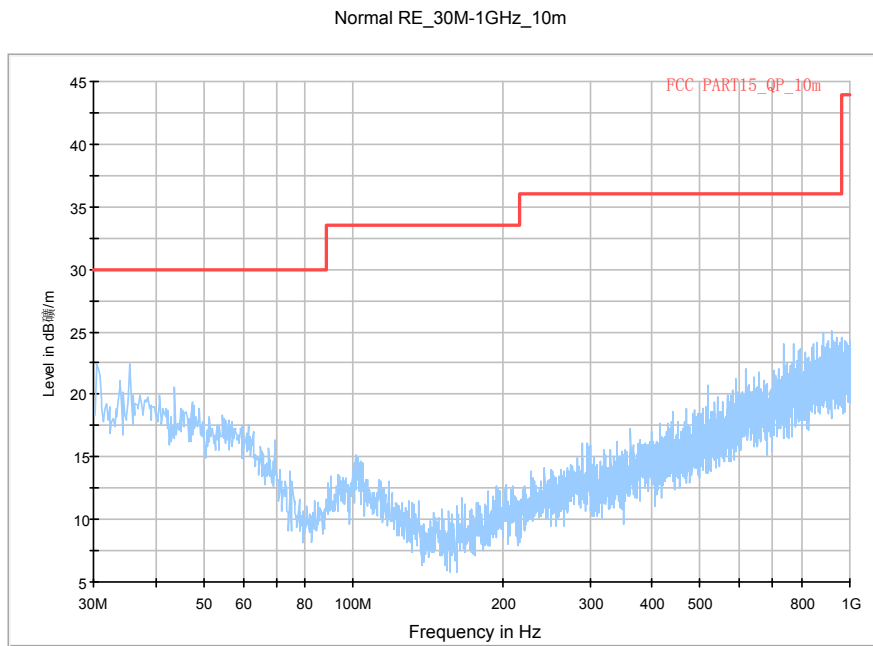


Fig.A.6.2.49 Radiated Spurious Emission (802.11n-HT40, Ch6, 30 MHz-1 GHz)

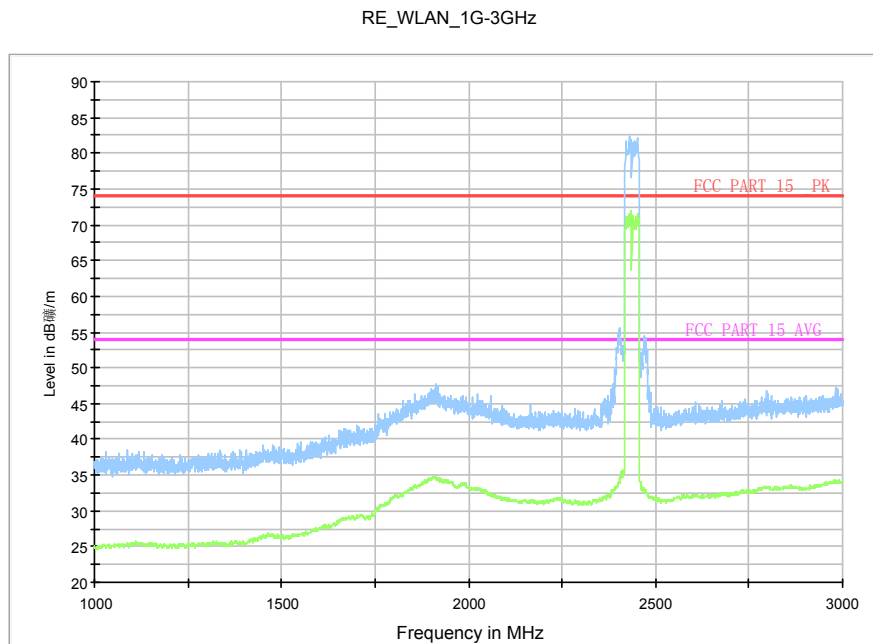


Fig.A.6.2.50 Radiated Spurious Emission (802.11n-HT40, Ch6, 1 GHz-3 GHz)

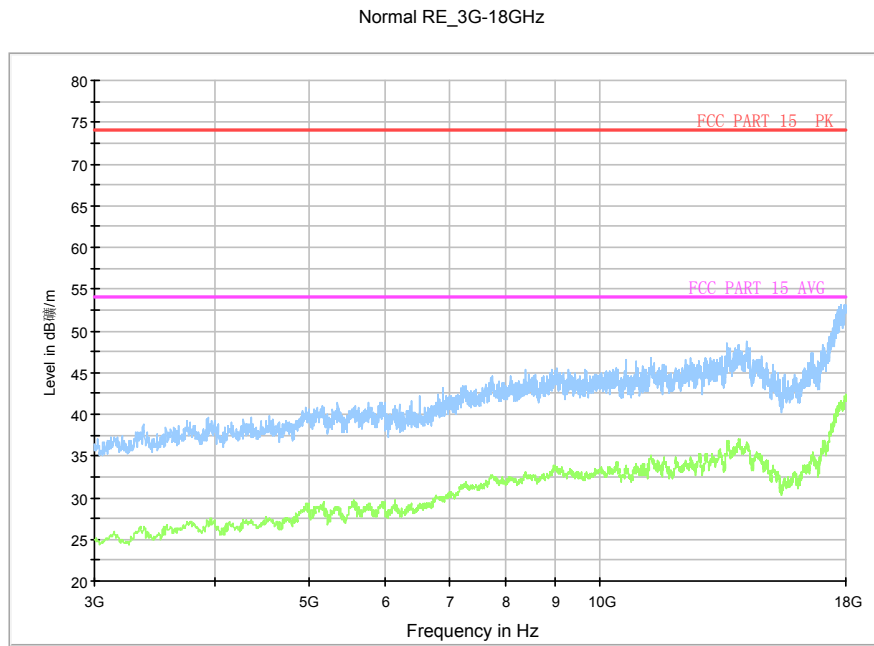


Fig.A.6.2.51 Radiated Spurious Emission (802.11n-HT40, Ch6, 3 GHz-18 GHz)

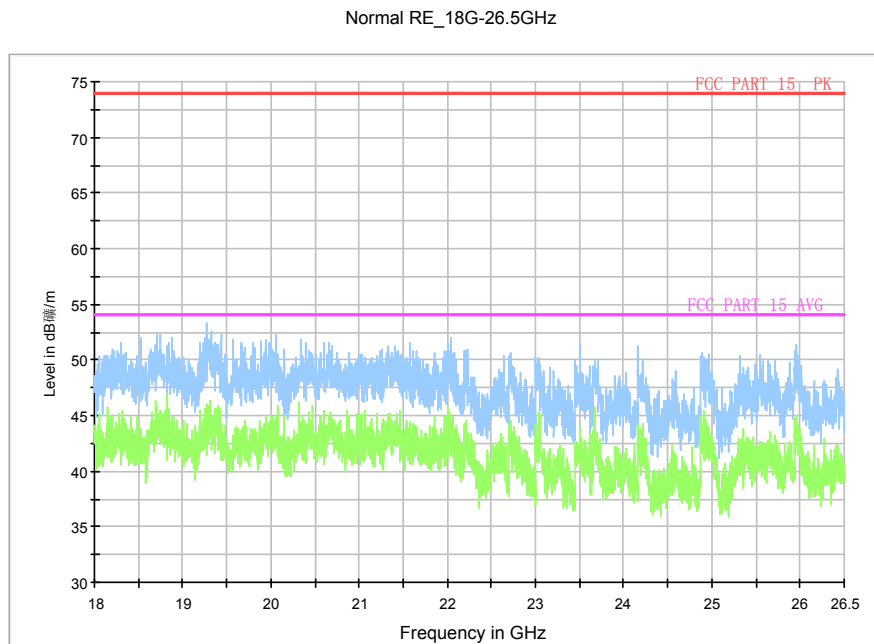


Fig.A.6.2.52 Radiated Spurious Emission (802.11n-HT40, Ch6, 18GHz – 26.5GHz)

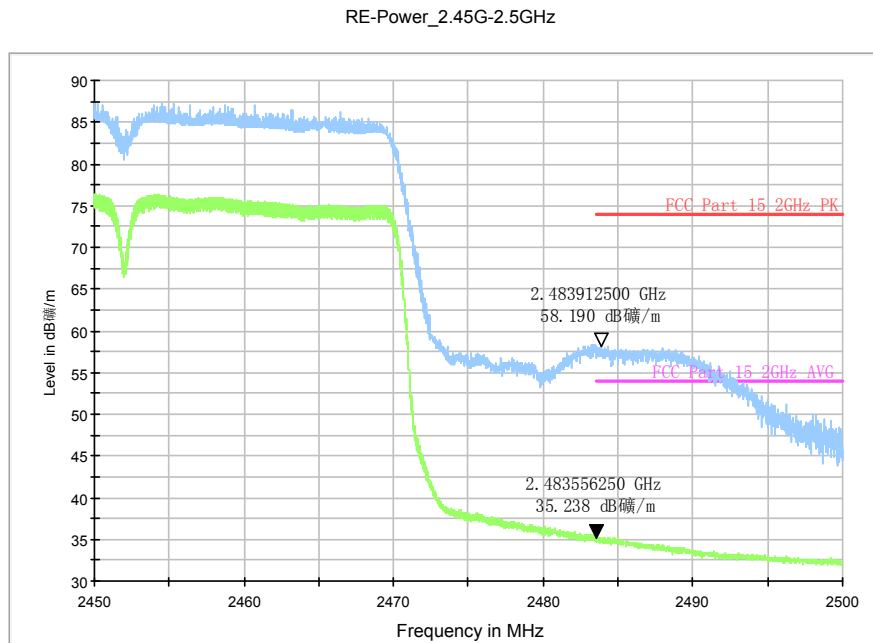


Fig.A.6.2.53 Radiated Spurious Emission (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

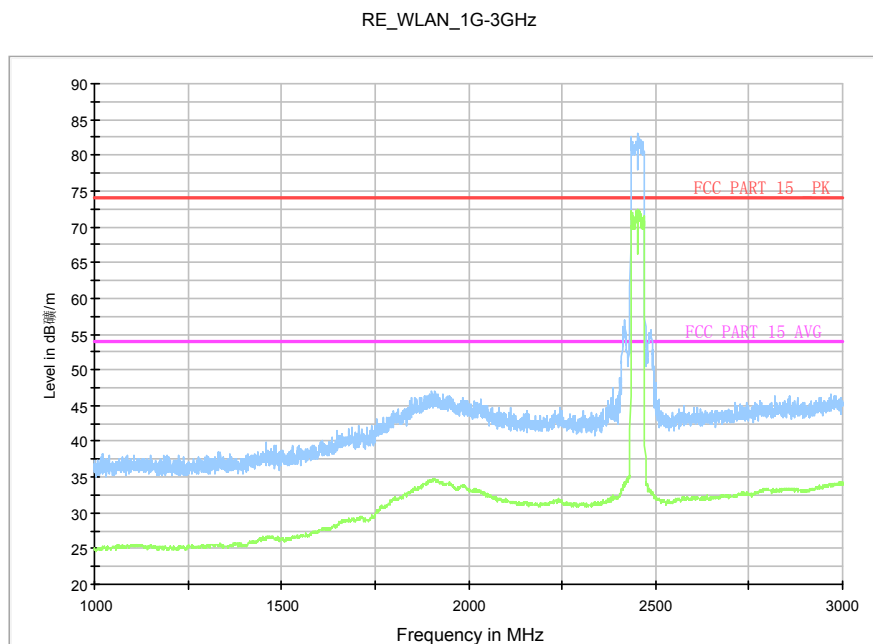


Fig.A.6.2.54 Radiated Spurious Emission (802.11n-HT40, ch9, 1 GHz-3 GHz)

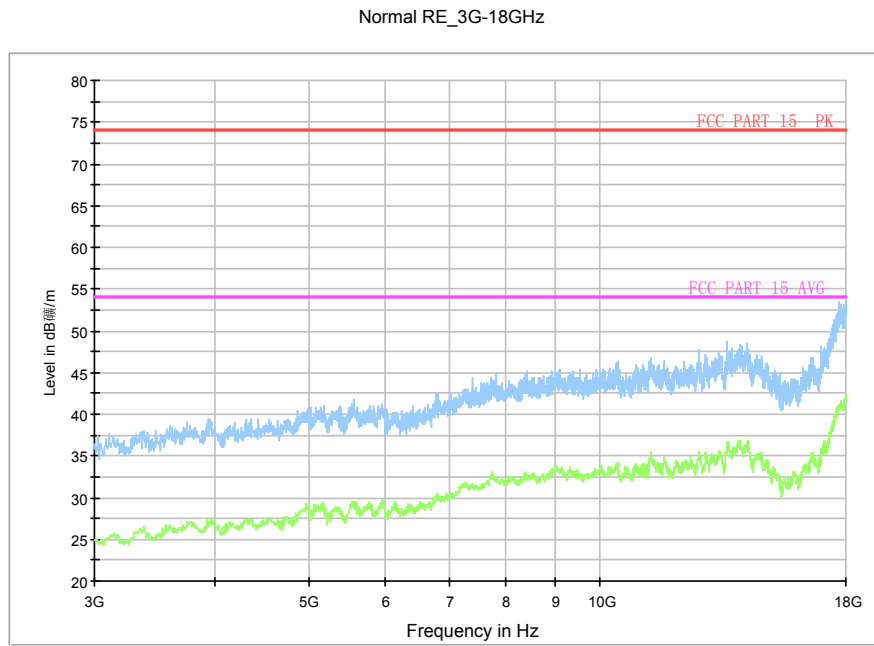


Fig.A.6.2.55 Radiated Spurious Emission (802.11n-HT40, ch9, 3 GHz-18 GHz)

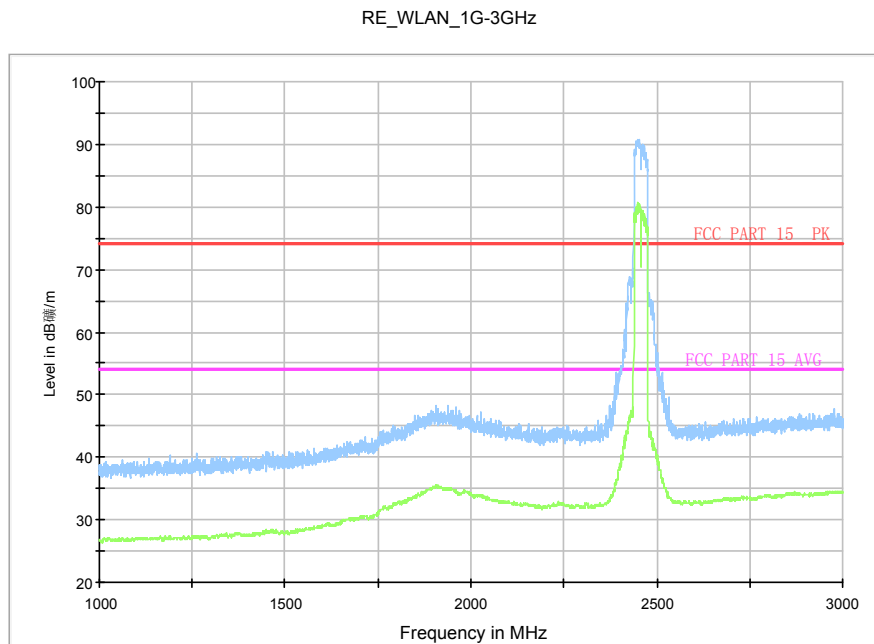


Fig.A.6.2.56 Radiated Spurious Emission (802.11n-HT40, Ch10, 1 GHz-3 GHz)

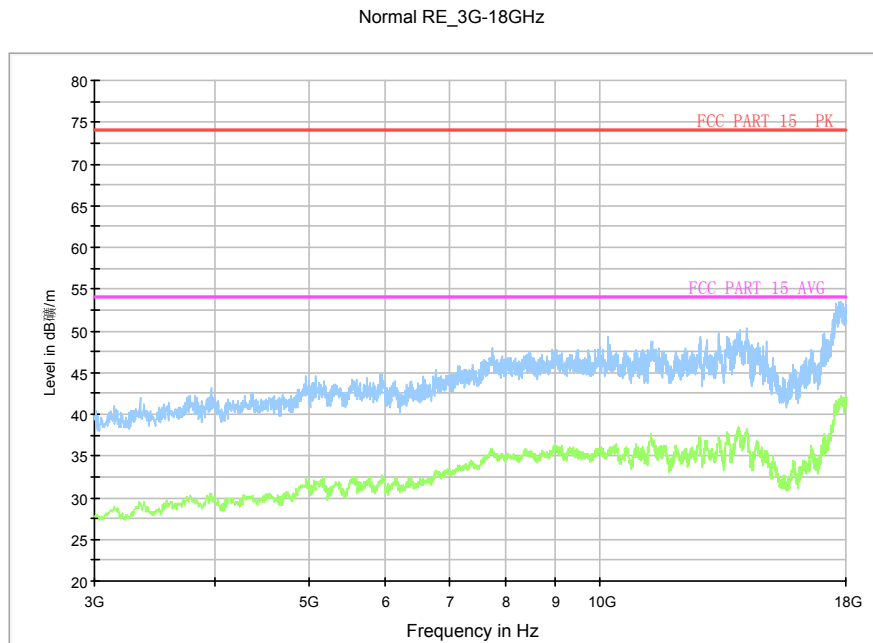


Fig.A.6.2.57 Radiated Spurious Emission (802.11n-HT40, Ch10, 3 GHz-18 GHz)

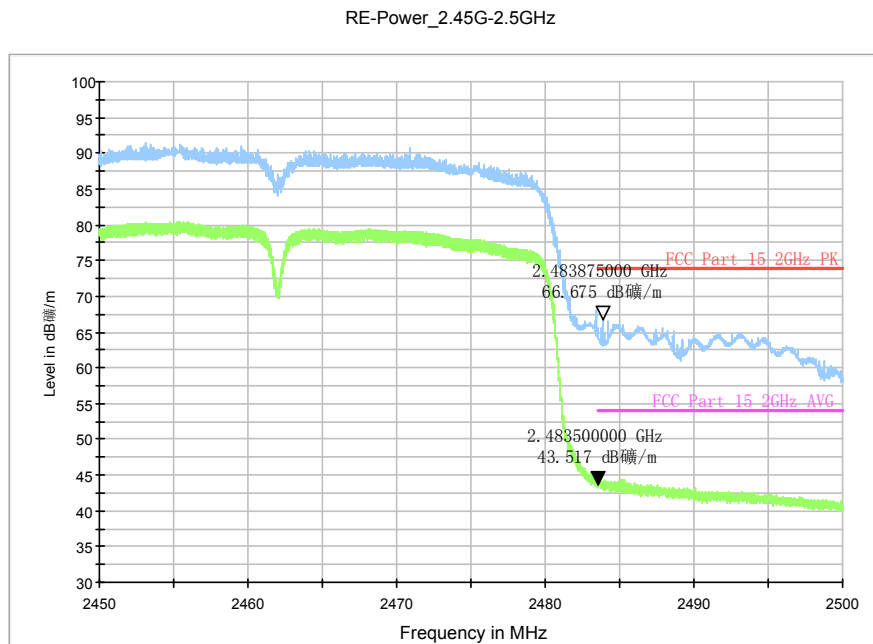


Fig.A.6.2.58 Radiated Spurious Emission (Power): 802.11n-HT40, ch11, 2.45 GHz - 2.50GHz

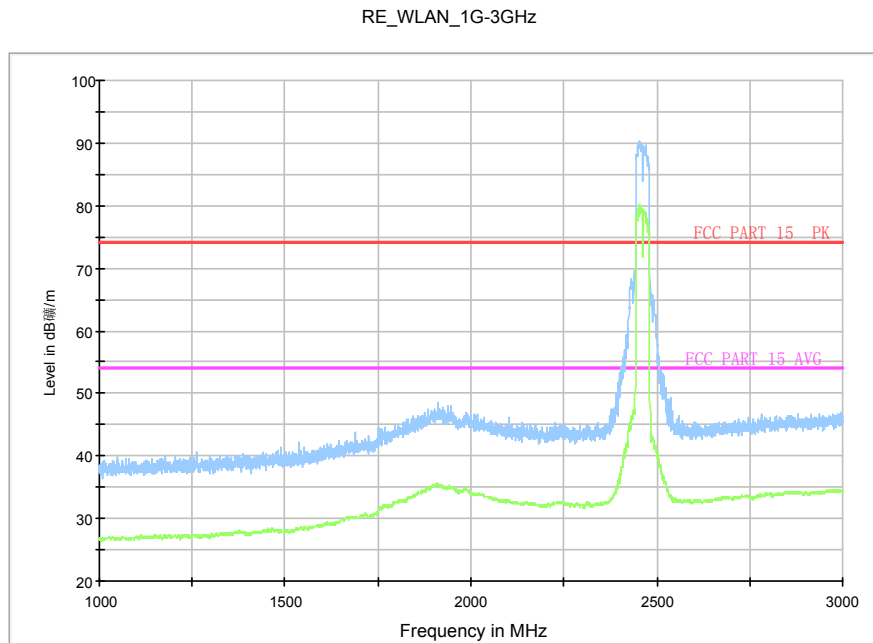


Fig.A.6.2.59 Radiated Spurious Emission (802.11n-HT40, Ch11, 1 GHz-3 GHz)

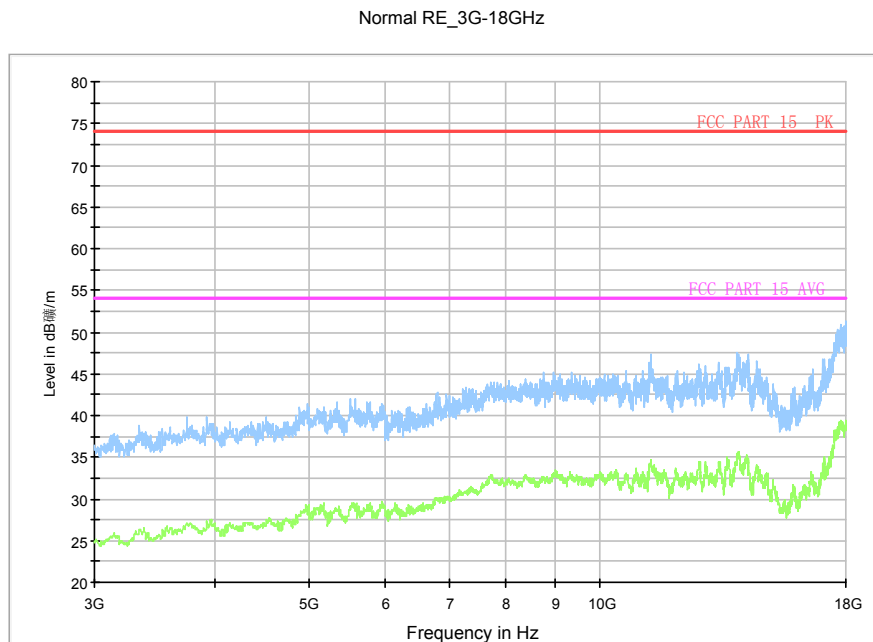


Fig.A.6.2.60 Radiated Spurious Emission (802.11n-HT40, Ch11, 3 GHz-18 GHz)

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)

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

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

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	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

Measurement uncertainty:

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

Test graphs as below:

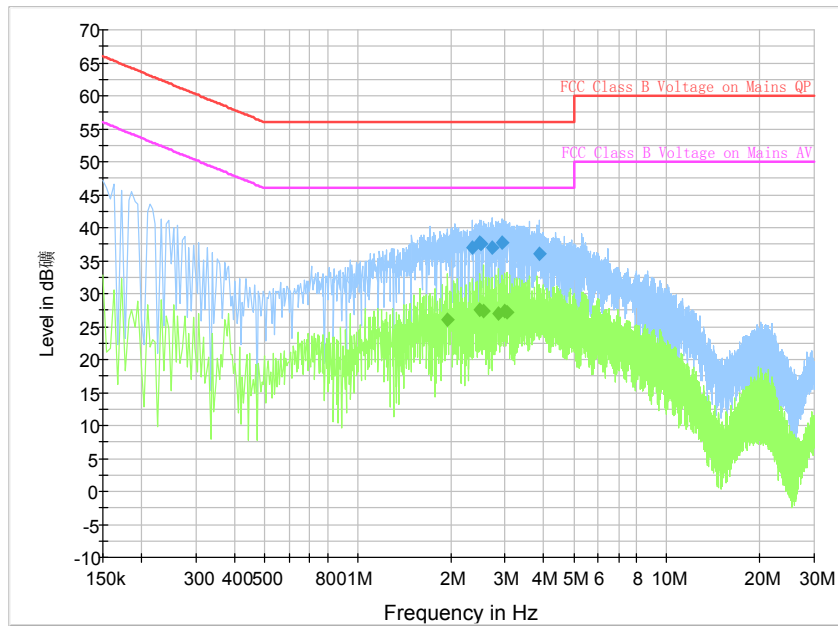


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

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

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
2.355000	37.0	GND	L1	9.7	19.0	56.0
2.485500	37.7	GND	L1	9.7	18.3	56.0
2.499000	37.6	GND	L1	9.7	18.4	56.0
2.733000	36.9	GND	L1	9.7	19.1	56.0
2.935500	37.8	GND	L1	9.7	18.2	56.0
3.862500	36.1	GND	L1	9.7	19.9	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.959000	26.0	GND	L1	9.7	20.0	46.0
2.485500	27.5	GND	L1	9.7	18.5	46.0
2.544000	27.4	GND	L1	9.7	18.6	46.0
2.850000	26.9	GND	L1	9.7	19.1	46.0
2.980500	27.4	GND	L1	9.7	18.6	46.0
3.039000	27.1	GND	L1	9.7	18.9	46.0

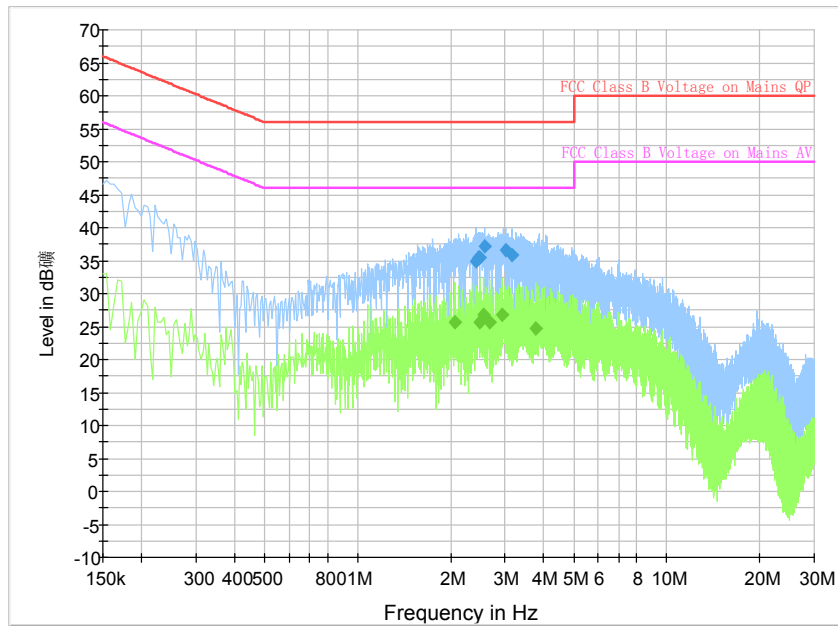


Fig.A.7.2 AC Powerline Conducted Emission-Idle

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)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
2.404500	34.9	GND	L1	9.7	21.1	56.0
2.463000	35.4	GND	L1	9.7	20.6	56.0
2.494500	35.5	GND	L1	9.7	20.5	56.0
2.580000	37.1	GND	L1	9.7	18.9	56.0
3.003000	36.6	GND	L1	9.7	19.4	56.0
3.165000	35.8	GND	L1	9.7	20.2	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
2.058000	25.7	GND	L1	9.7	20.3	46.0
2.494500	25.7	GND	L1	9.7	20.3	46.0
2.553000	26.8	GND	L1	9.7	19.2	46.0
2.683500	25.6	GND	L1	9.7	20.4	46.0
2.931000	26.8	GND	L1	9.7	19.2	46.0
3.772500	24.7	GND	L1	9.7	21.3	46.0