

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

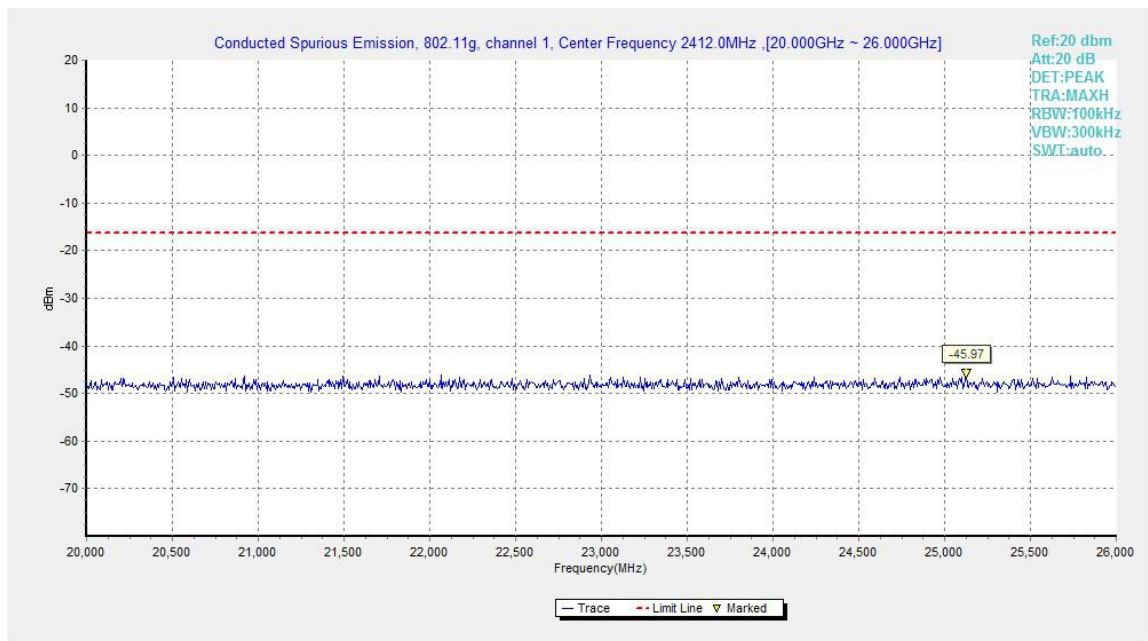


Fig.B.6.1.32 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 20 GHz-26 GHz)

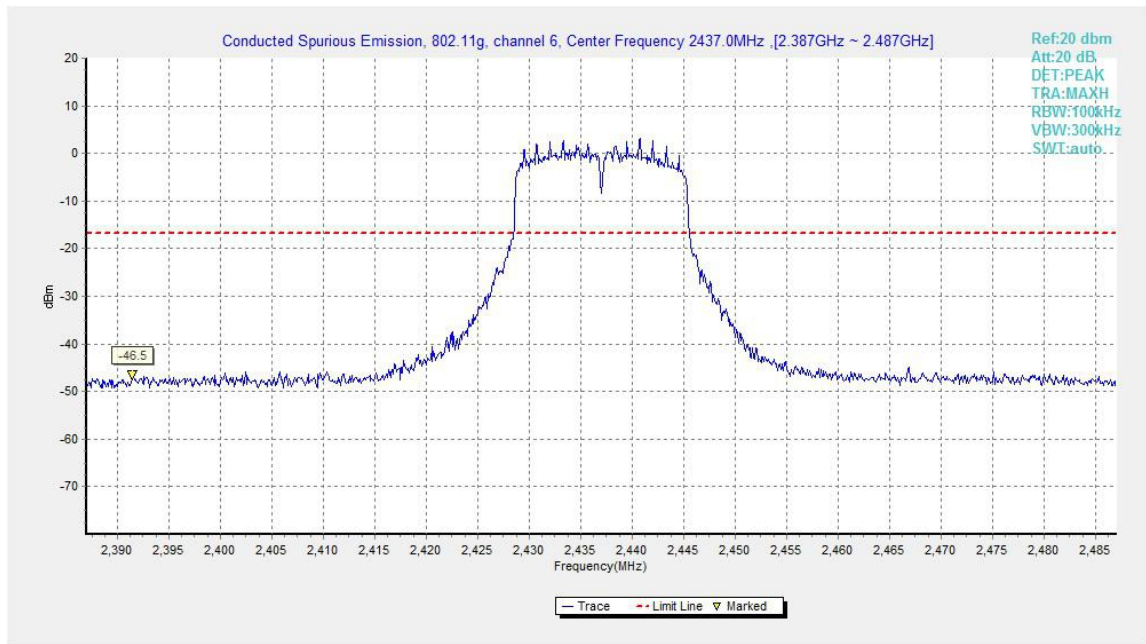


Fig.B.6.1.33 Transmitter Spurious Emission - Conducted (802.11g, Ch6, Center Frequency)

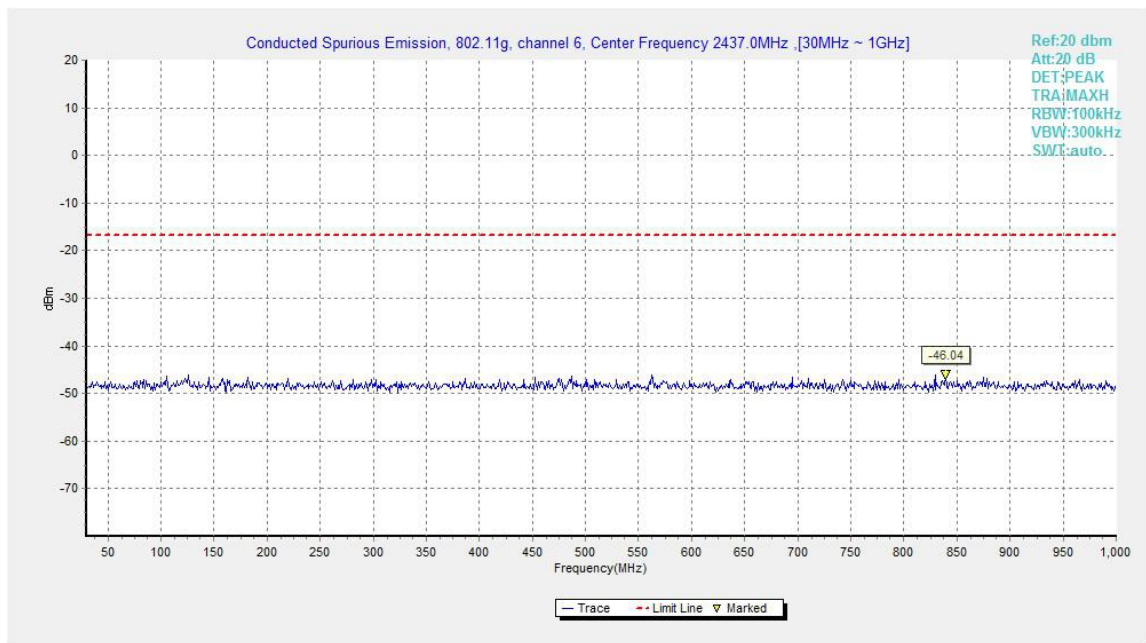


Fig.B.6.1.34 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 30 MHz-1 GHz)

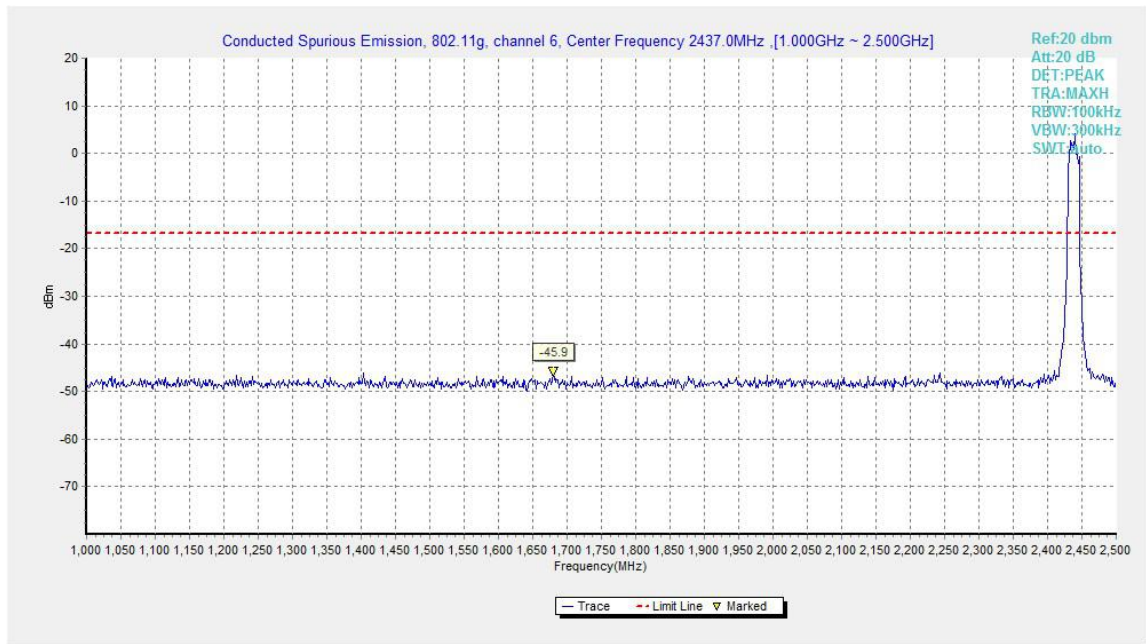


Fig.B.6.1.35 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 1 GHz-2.5 GHz)

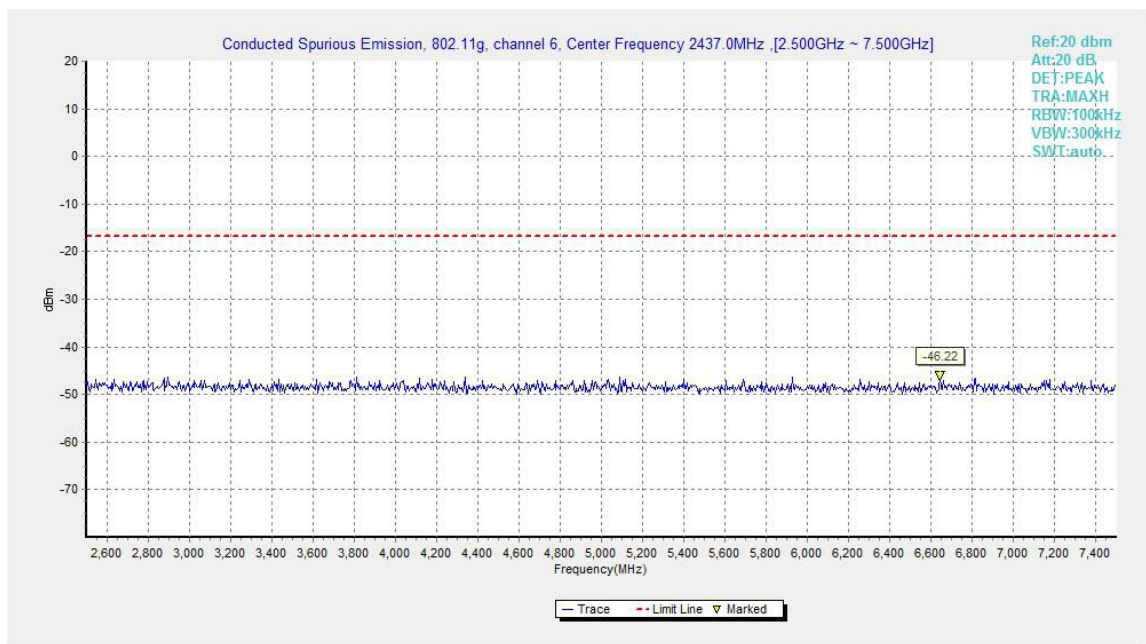


Fig.B.6.1.36 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 2.5 GHz-7.5 GHz)

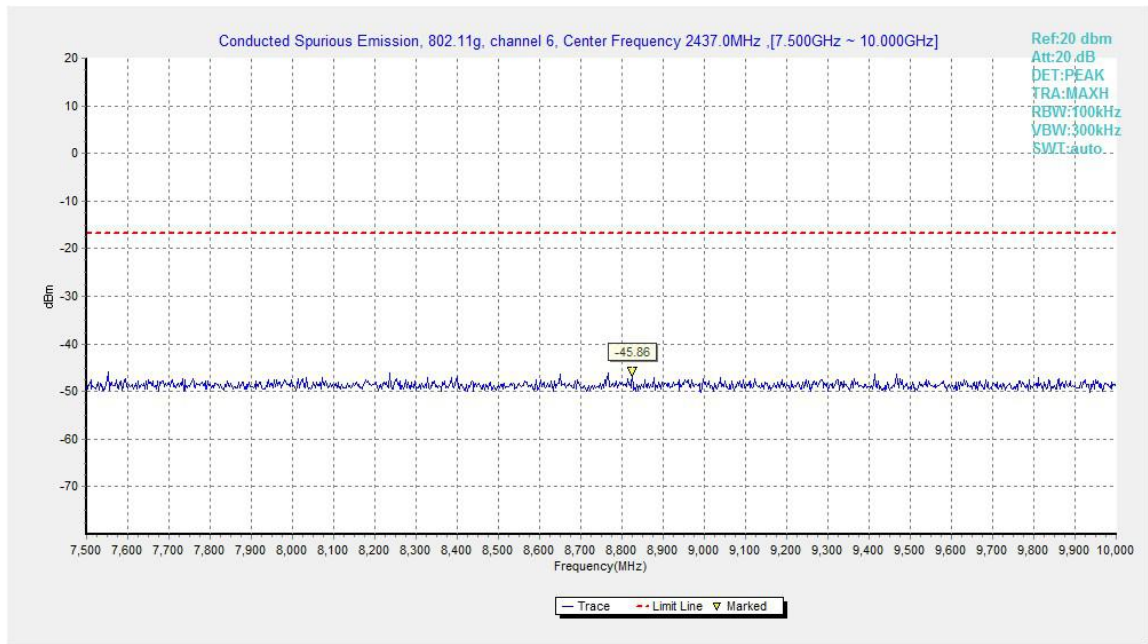


Fig.B.6.1.37 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 7.5 GHz-10 GHz)

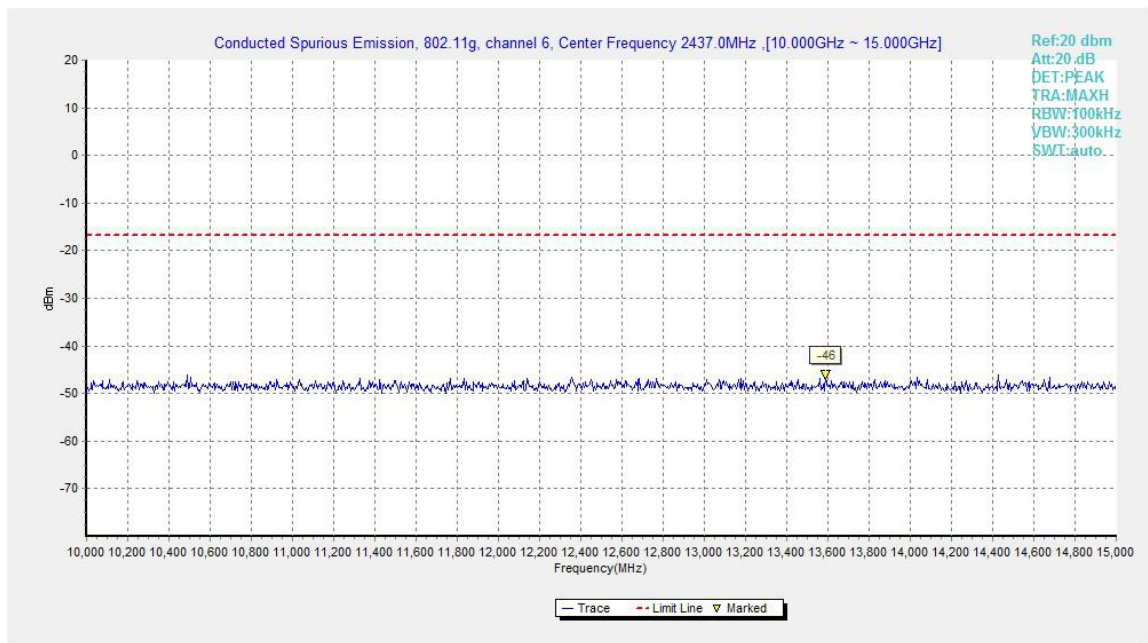


Fig.B.6.1.38 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 10 GHz-15 GHz)

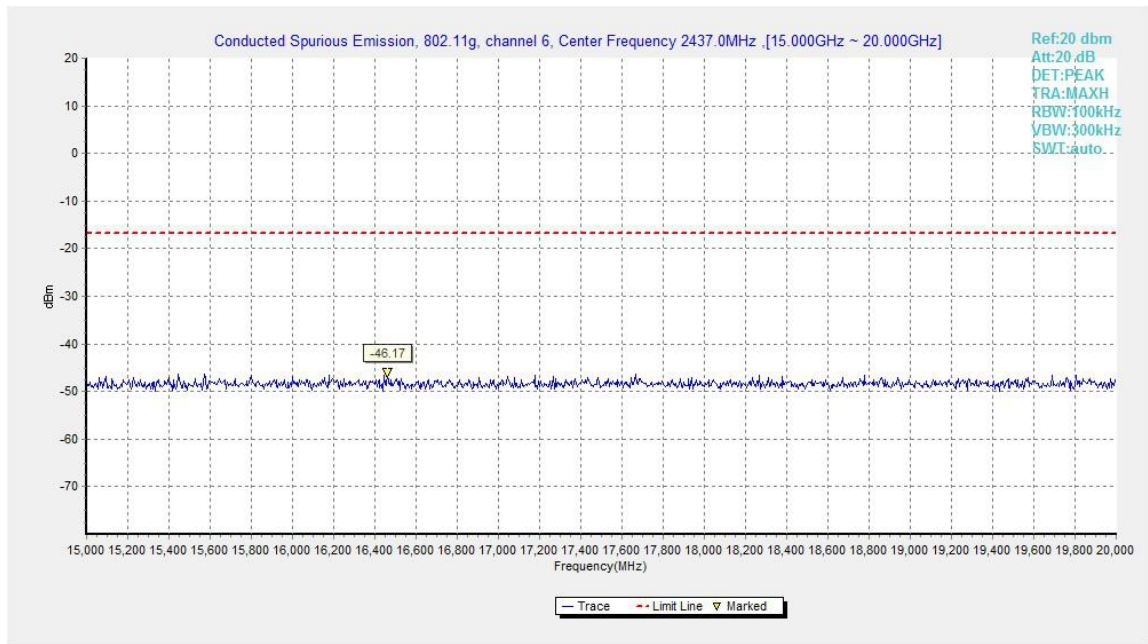


Fig.B.6.1.39 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 15 GHz-20 GHz)

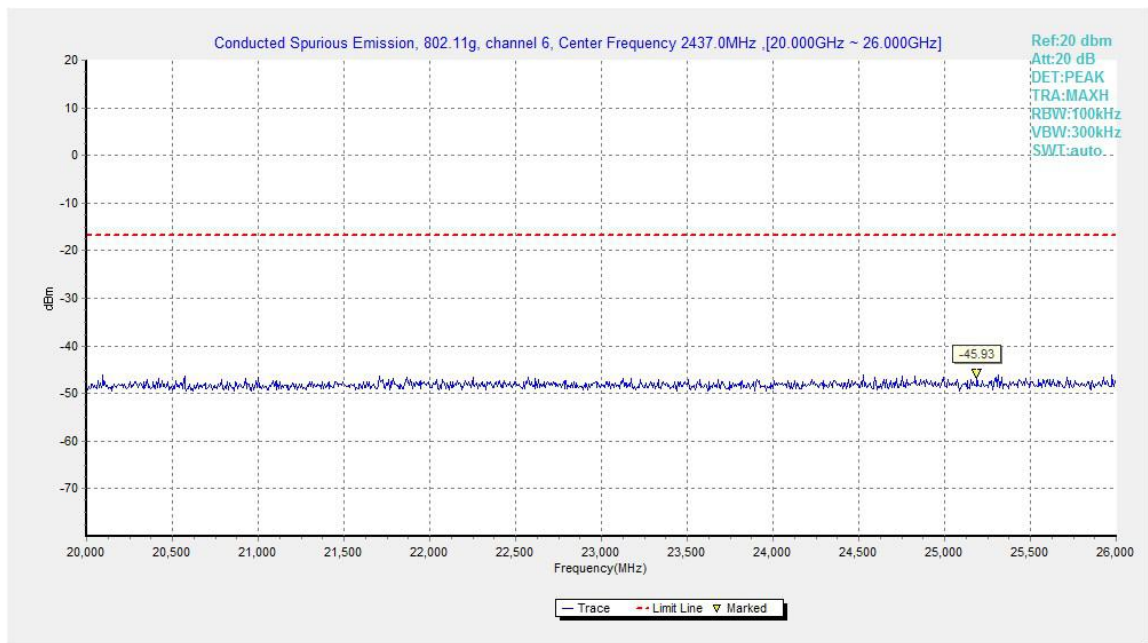


Fig.B.6.1.40 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 20 GHz-26 GHz)

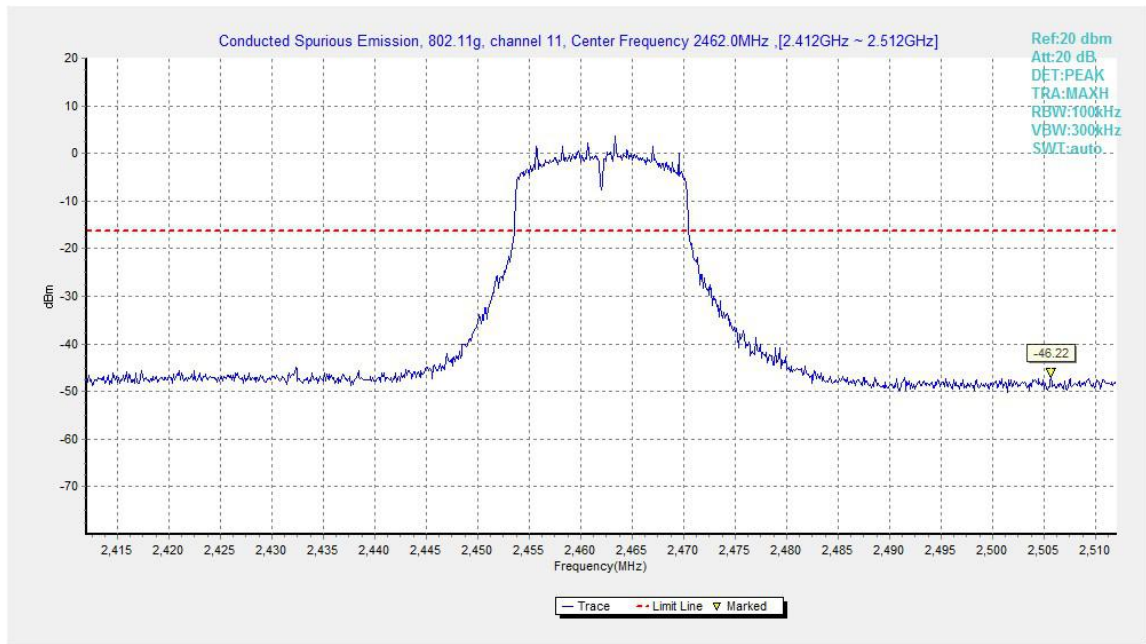


Fig.B.6.1.41 Transmitter Spurious Emission - Conducted (802.11g, Ch11, Center Frequency)

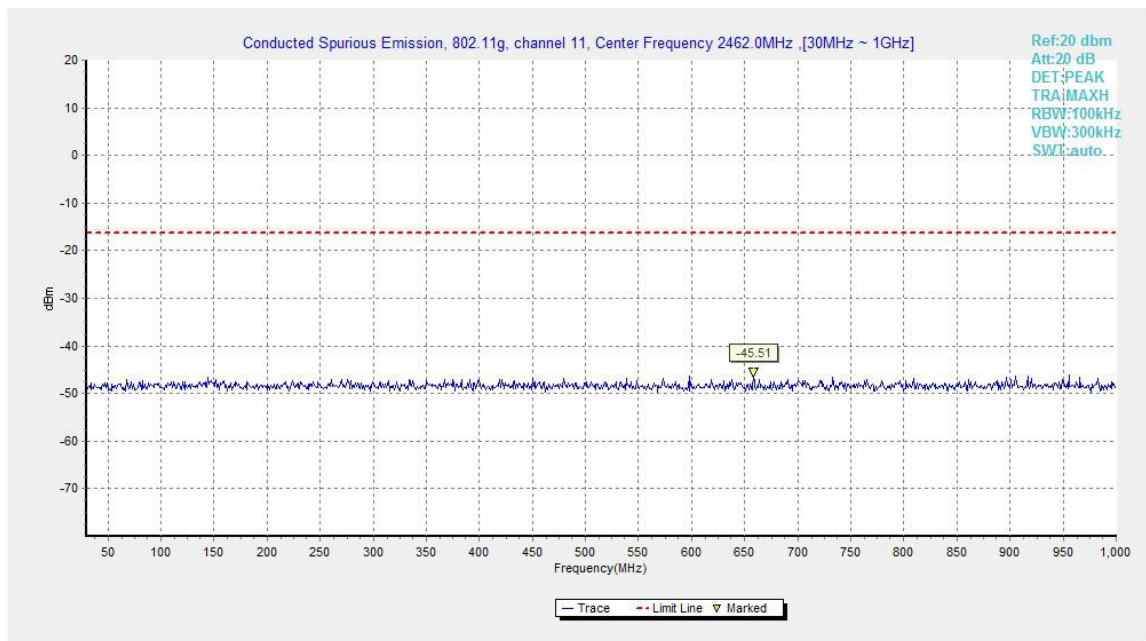


Fig.B.6.1.42 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 30 MHz-1 GHz)

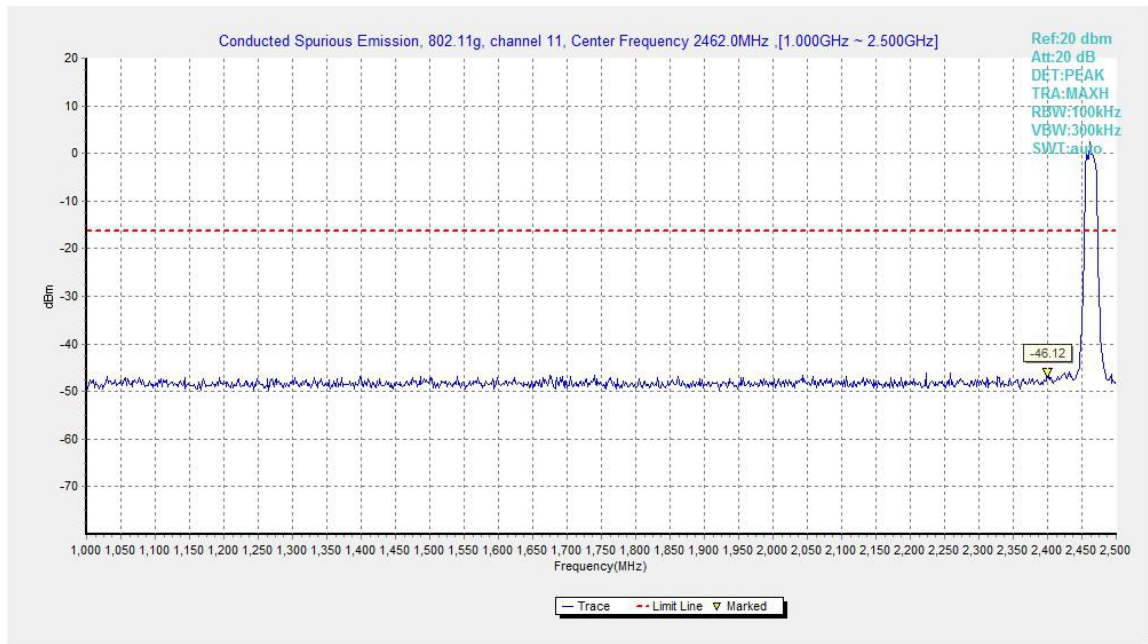


Fig.B.6.1.43 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 1 GHz-2.5 GHz)

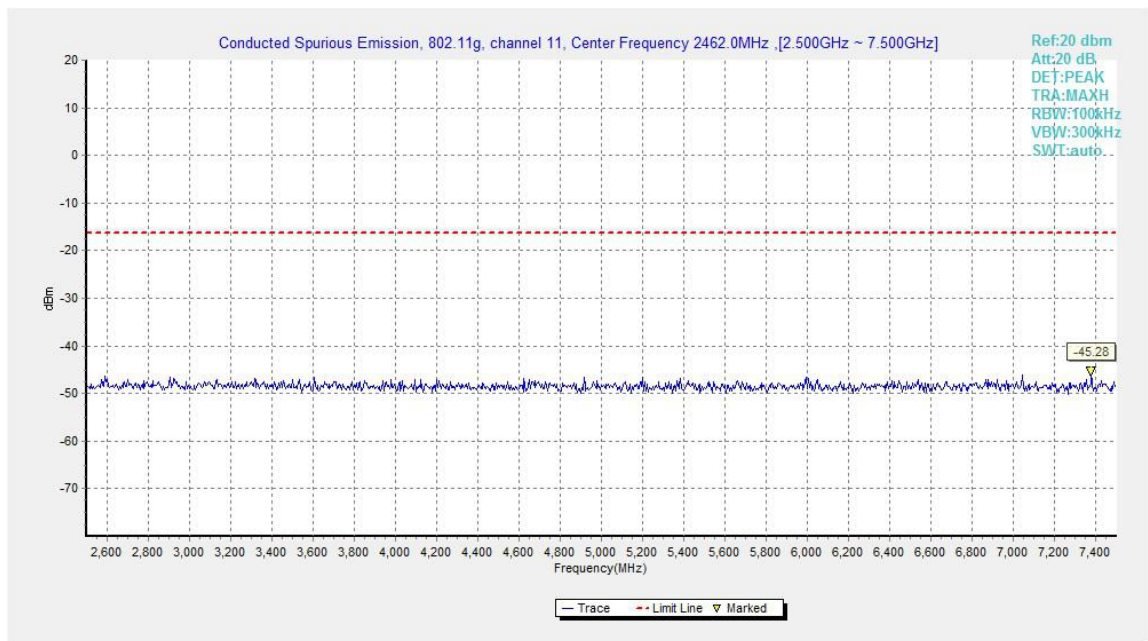


Fig.B.6.1.44 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 2.5 GHz-7.5 GHz)

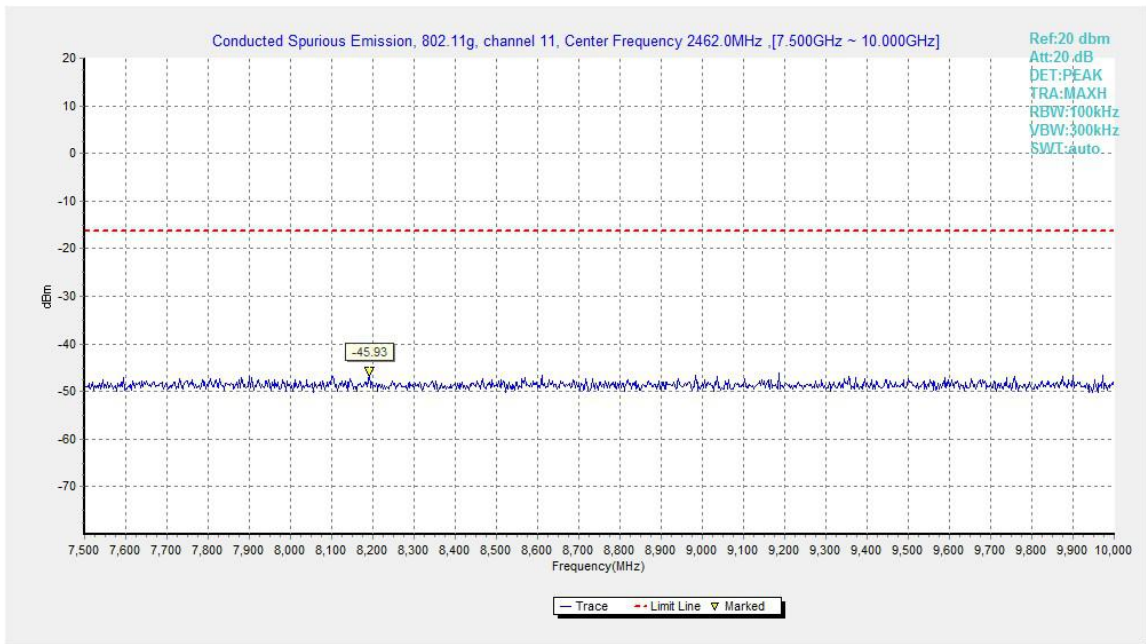


Fig.B.6.1.45 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 7.5 GHz-10 GHz)

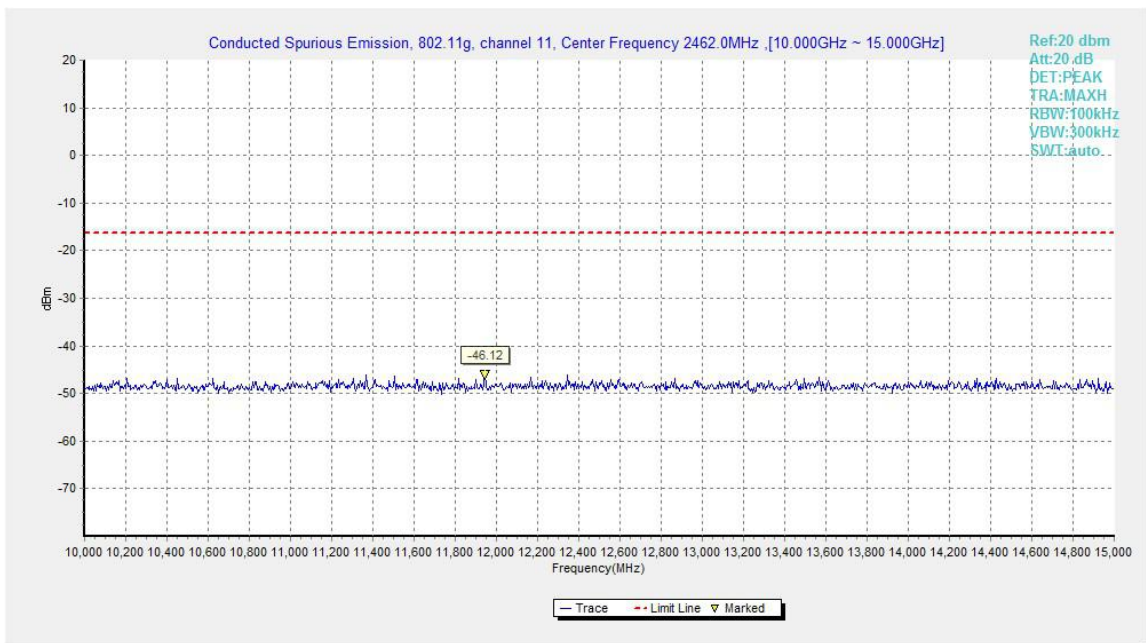


Fig.B.6.1.46 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 10 GHz-15 GHz)

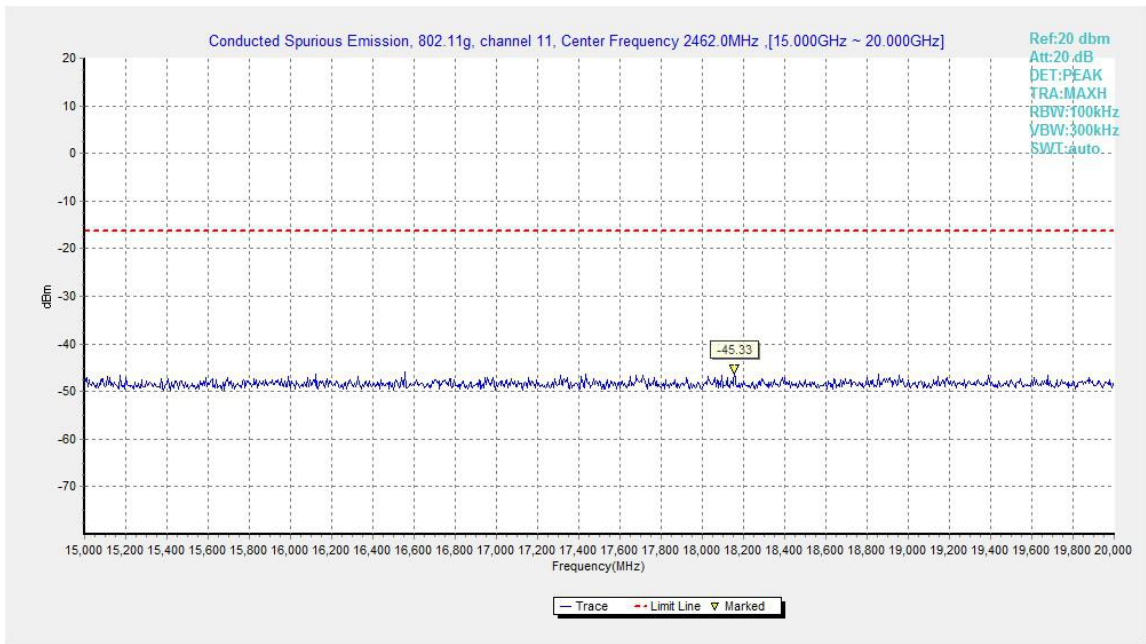


Fig.B.6.1.47 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 15 GHz-20 GHz)

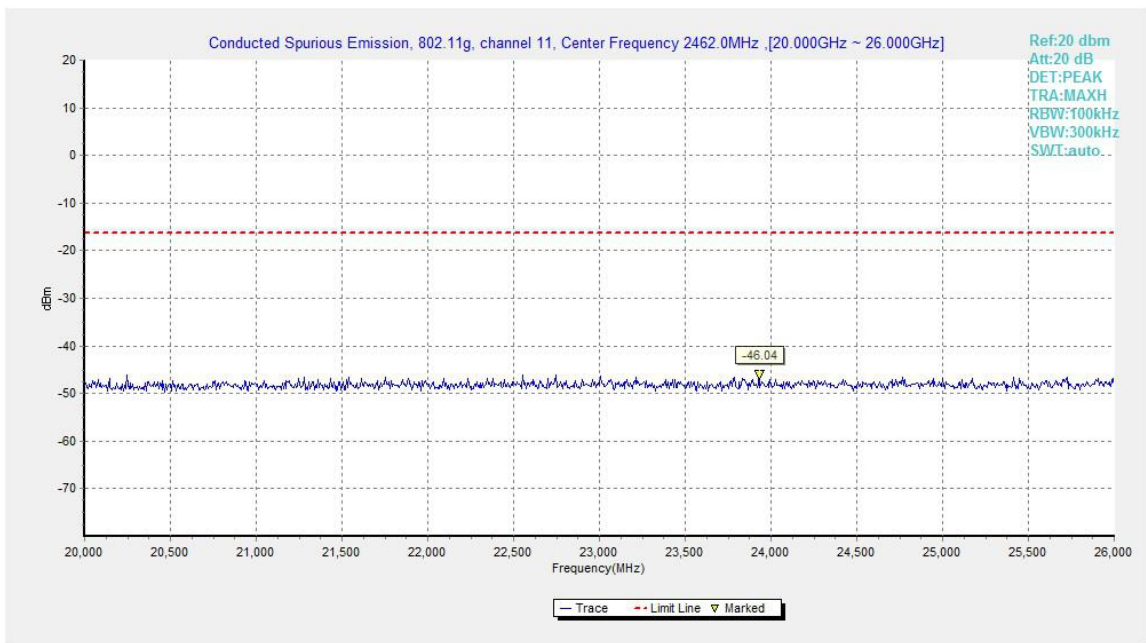


Fig.B.6.1.48 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 20 GHz-26 GHz)

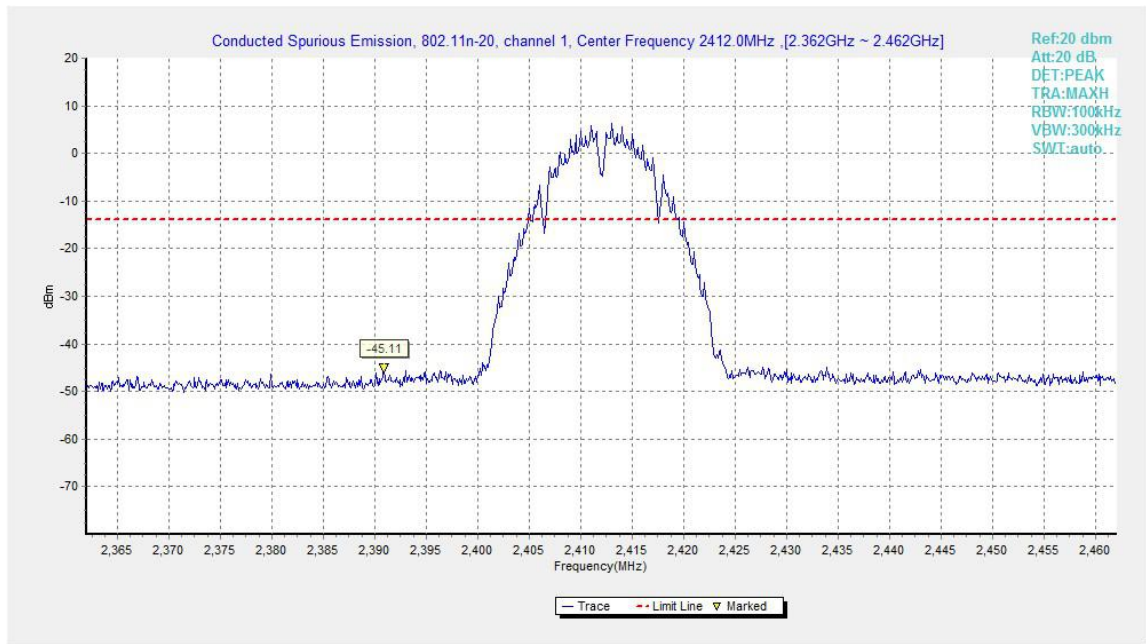


Fig.B.6.1.49 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, Center Frequency)

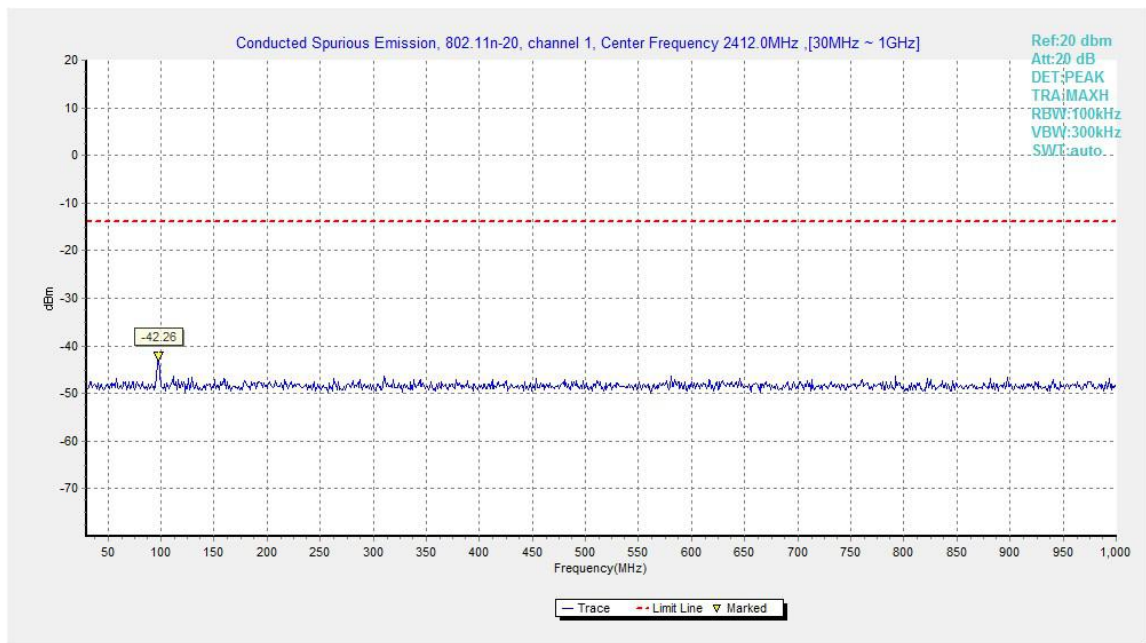


Fig.B.6.1.50 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 30 MHz-1 GHz)

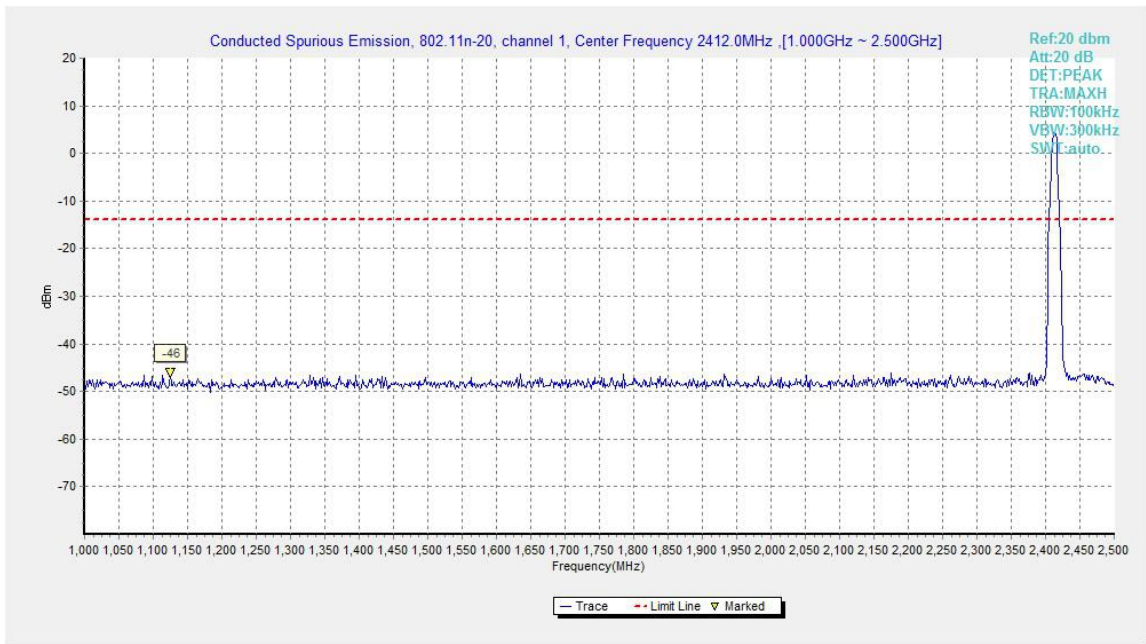


Fig.B.6.1.51 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 1 GHz-2.5 GHz)

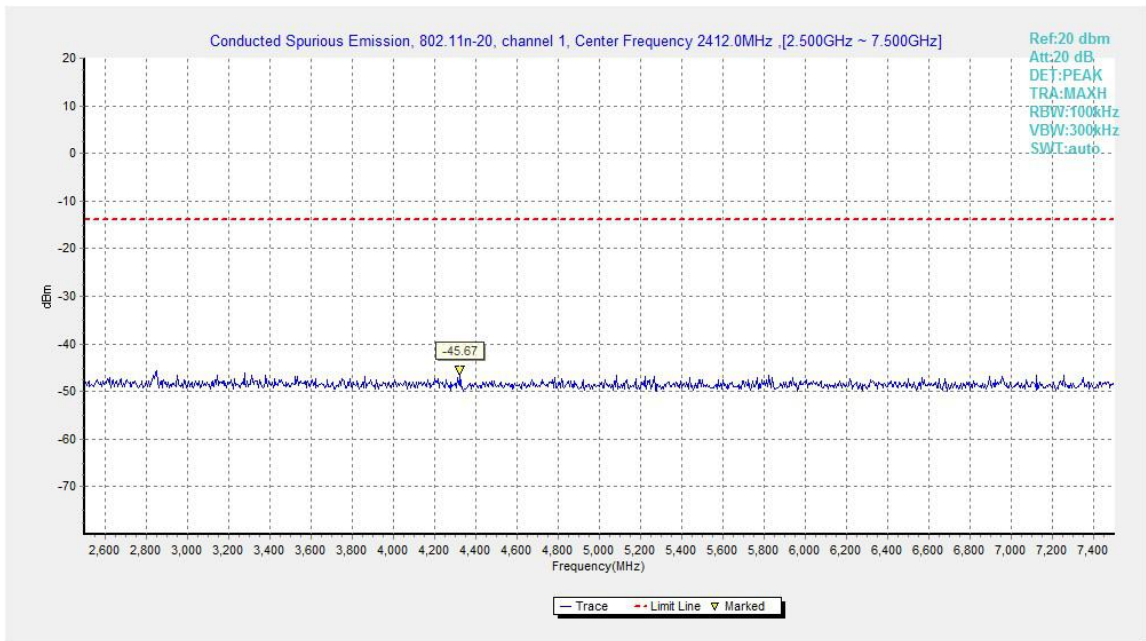


Fig.B.6.1.52 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 2.5 GHz-7.5 GHz)

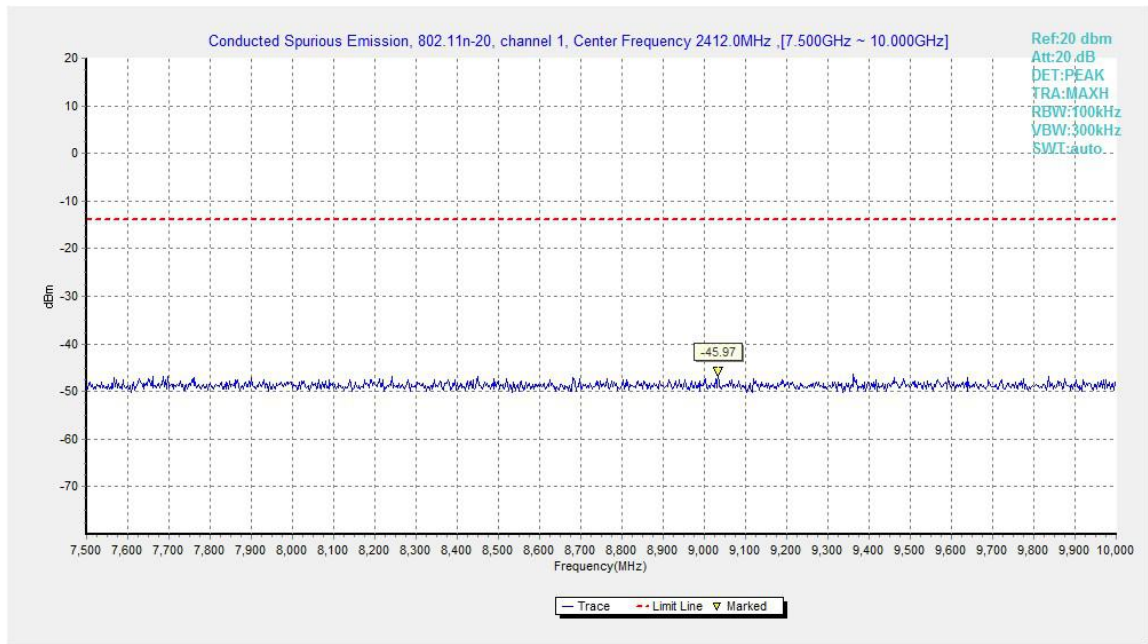


Fig.B.6.1.53 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 7.5 GHz-10 GHz)

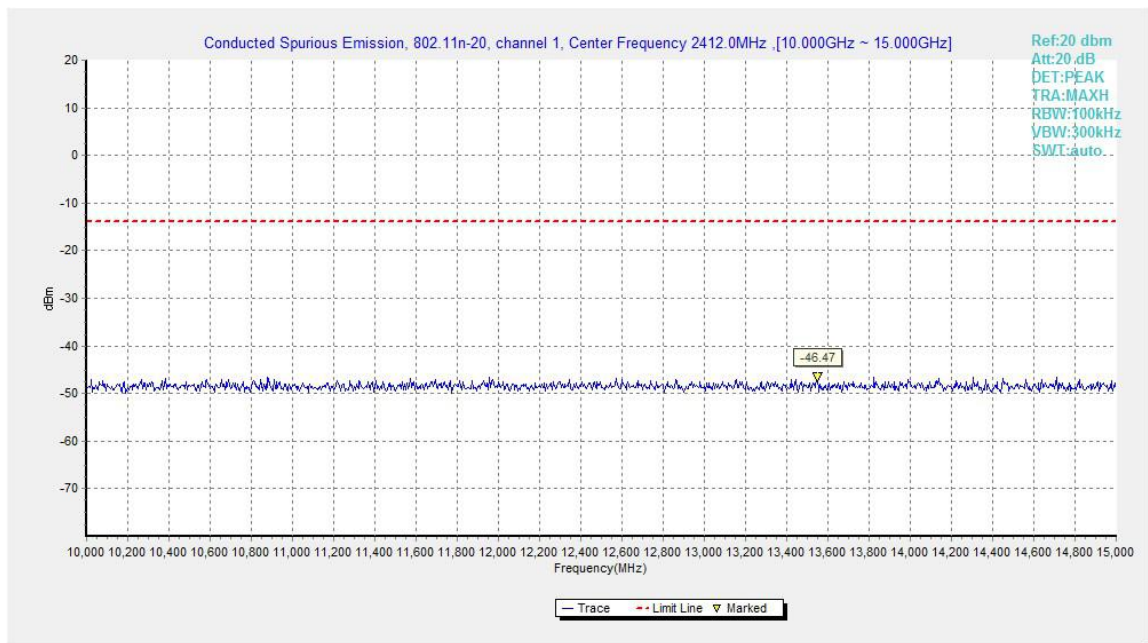


Fig.B.6.1.54 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 10 GHz-15 GHz)

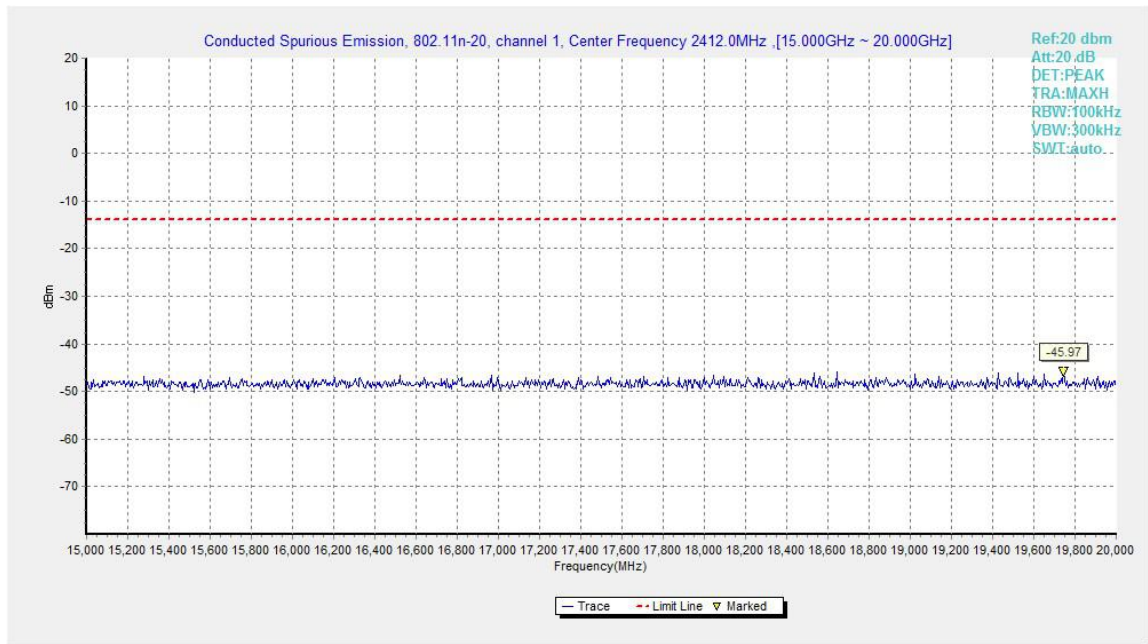


Fig.B.6.1.55 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 15 GHz-20 GHz)

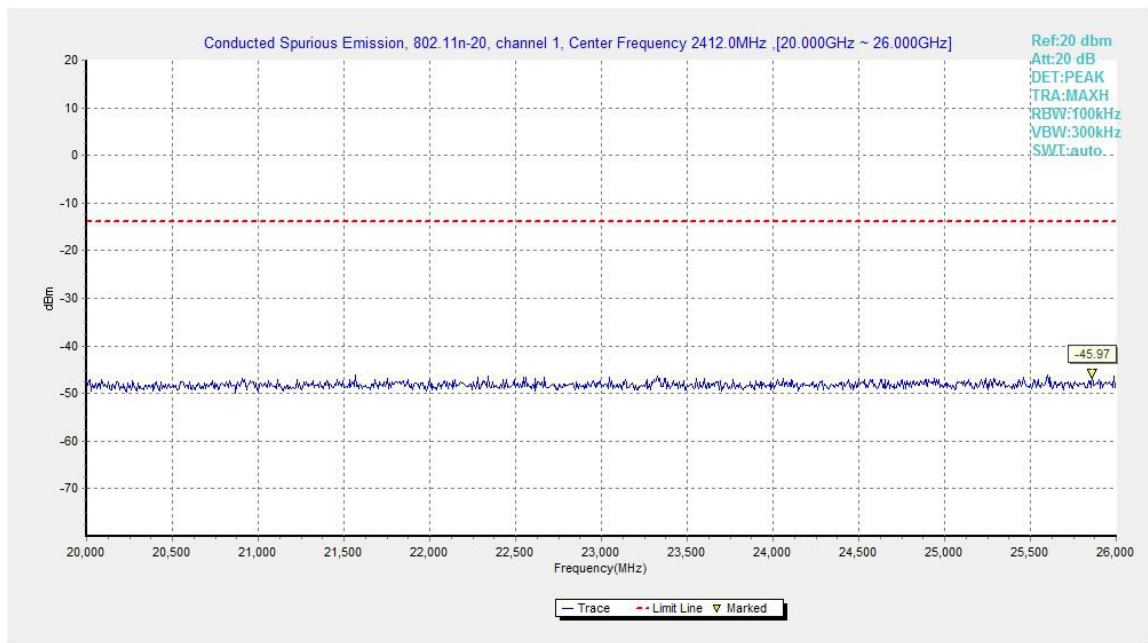


Fig.B.6.1.56 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 20 GHz-26 GHz)

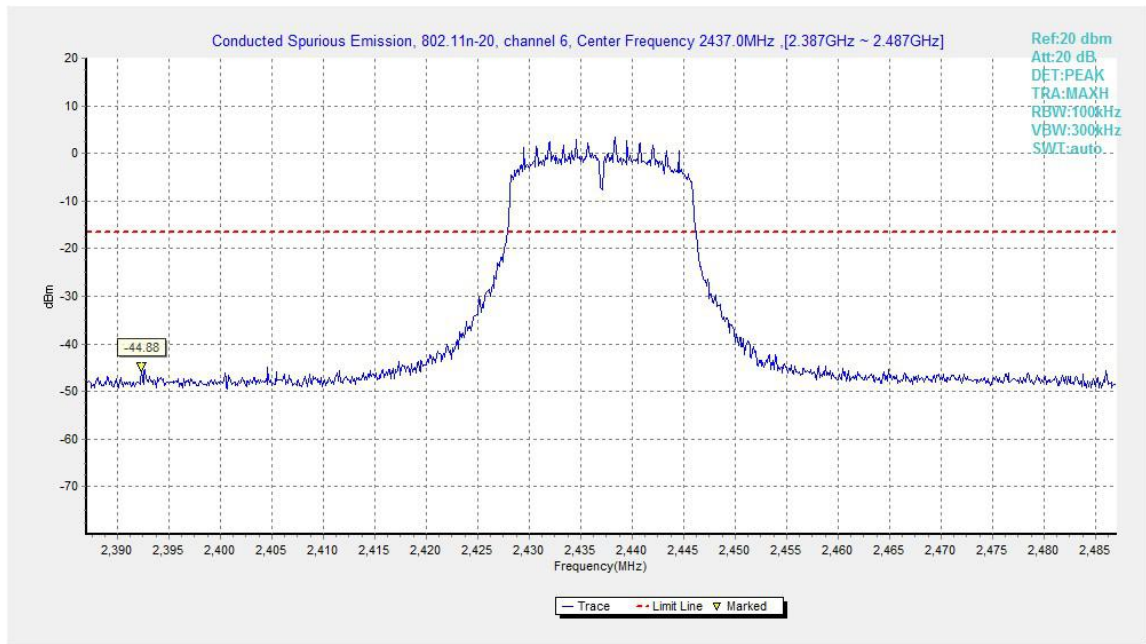


Fig.B.6.1.57 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, Center Frequency)

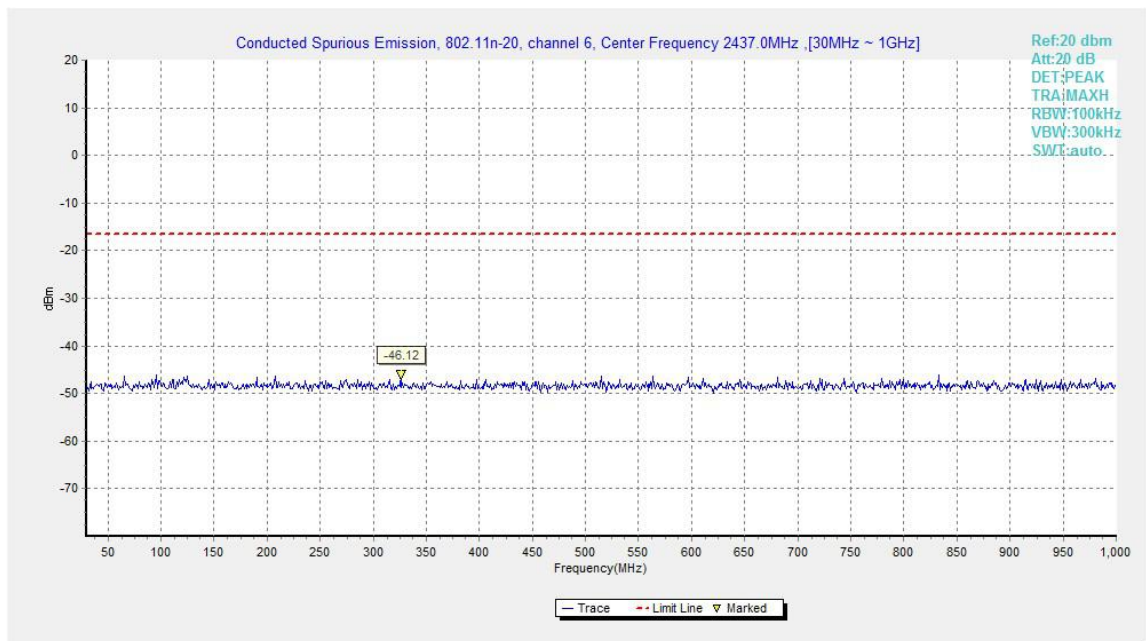


Fig.B.6.1.58 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 30 MHz-1 GHz)

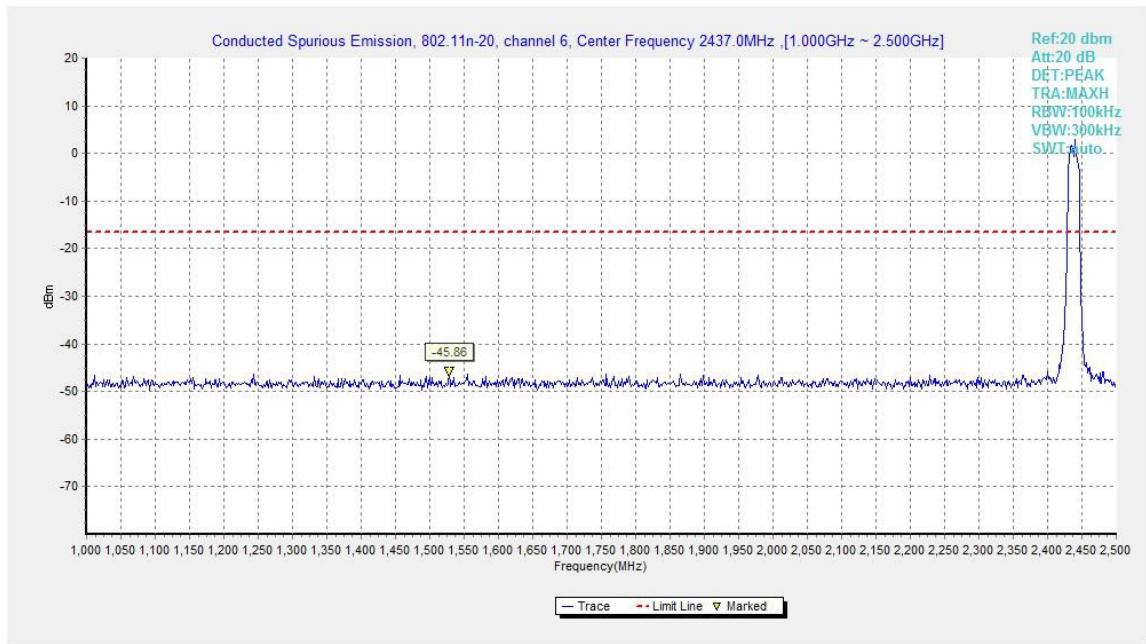


Fig.B.6.1.59 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)

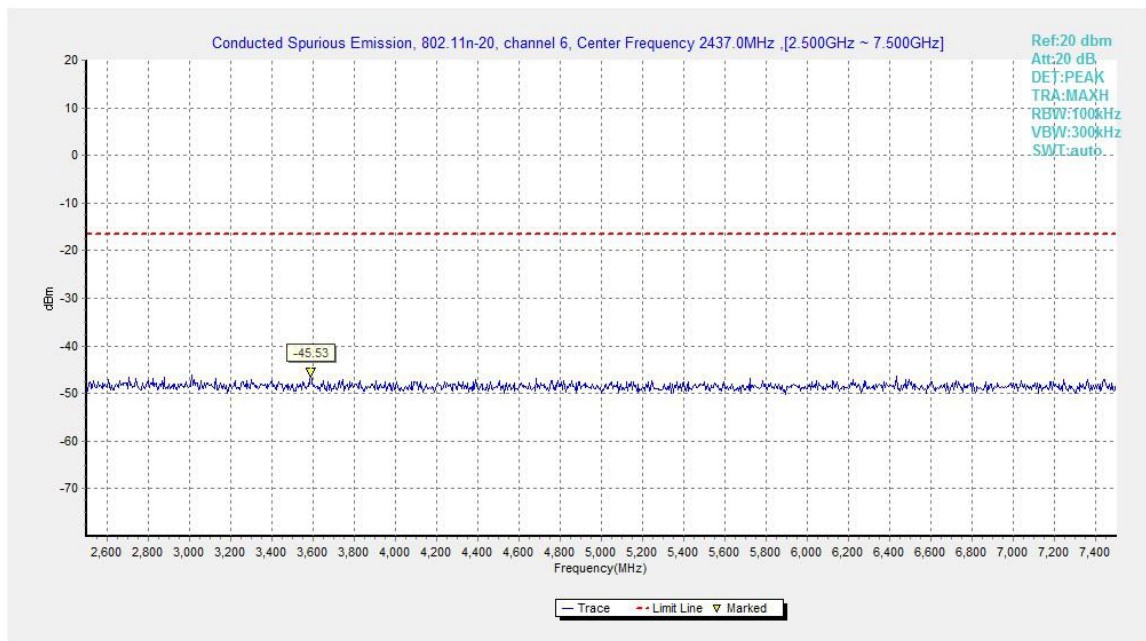


Fig.B.6.1.60 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)

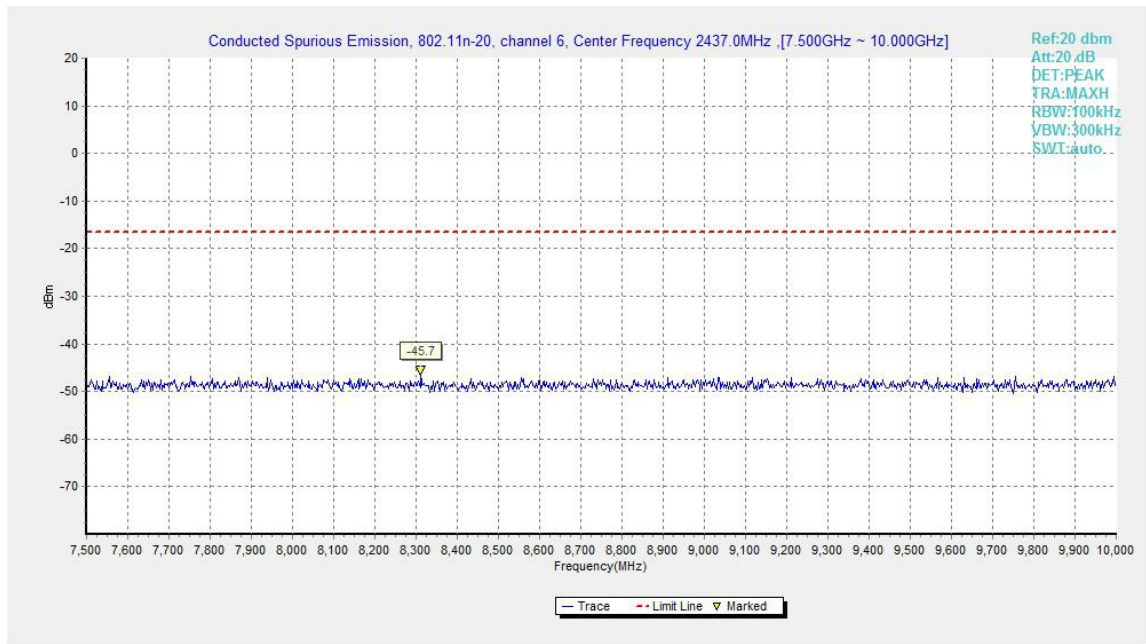


Fig.B.6.1.61 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)

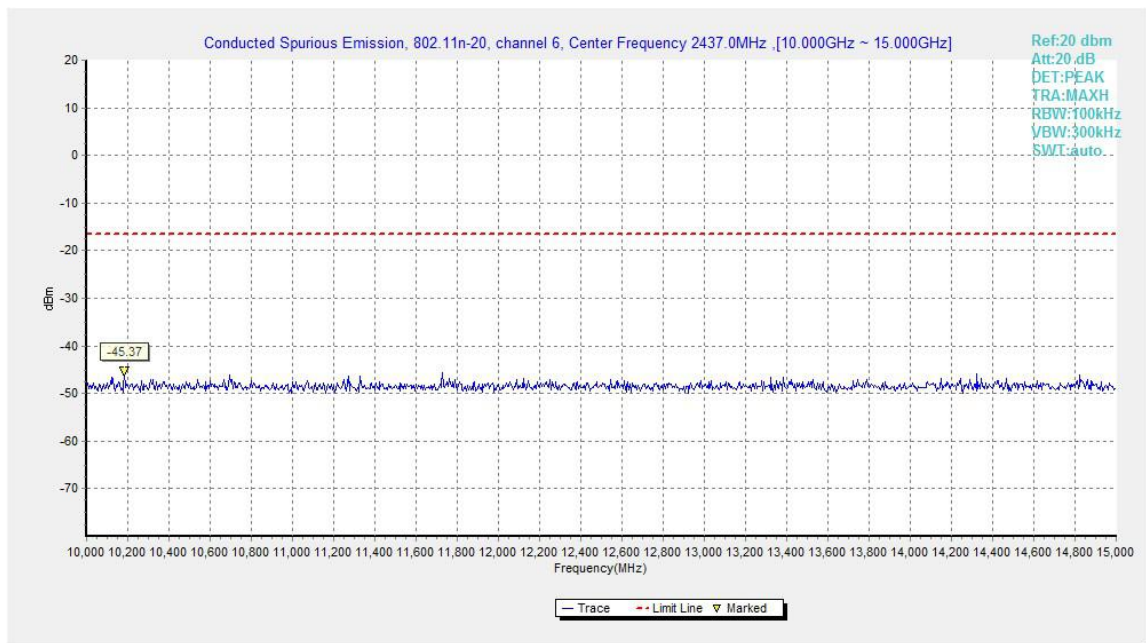


Fig.B.6.1.62 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 10 GHz-15 GHz)

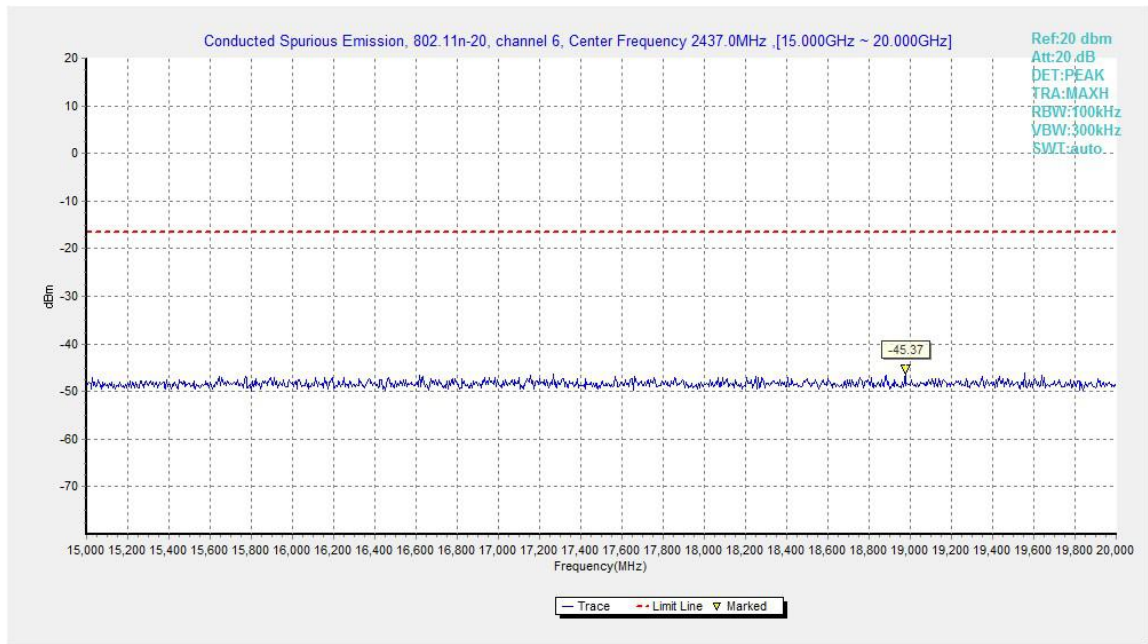


Fig.B.6.1.63 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 15 GHz-20 GHz)

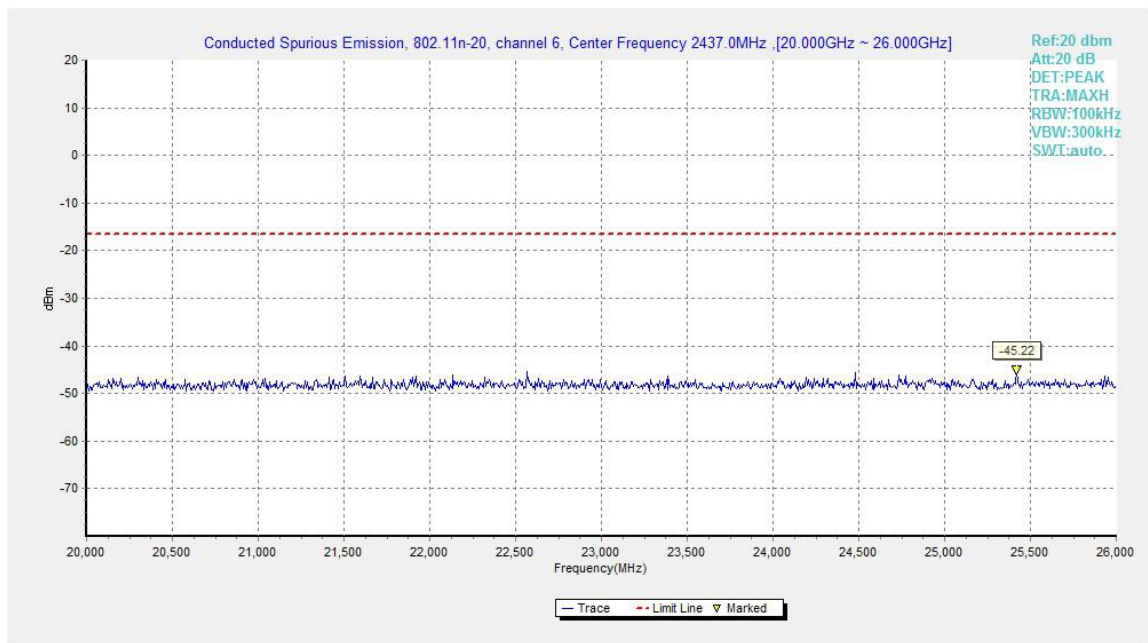


Fig.B.6.1.64 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 20 GHz-26 GHz)

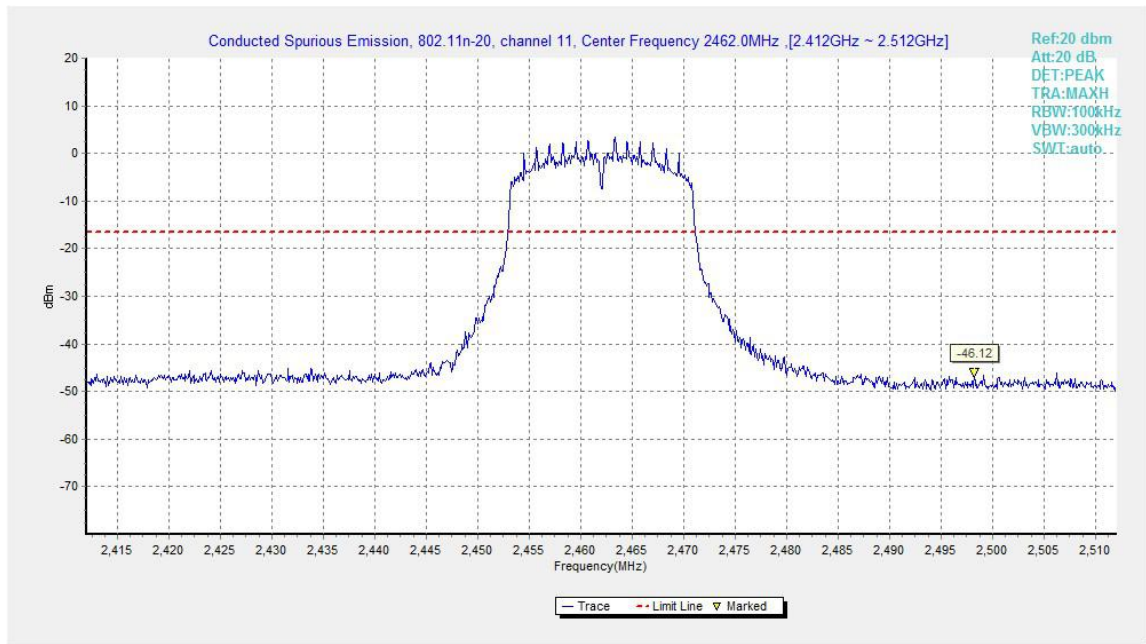


Fig.B.6.1.65 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)

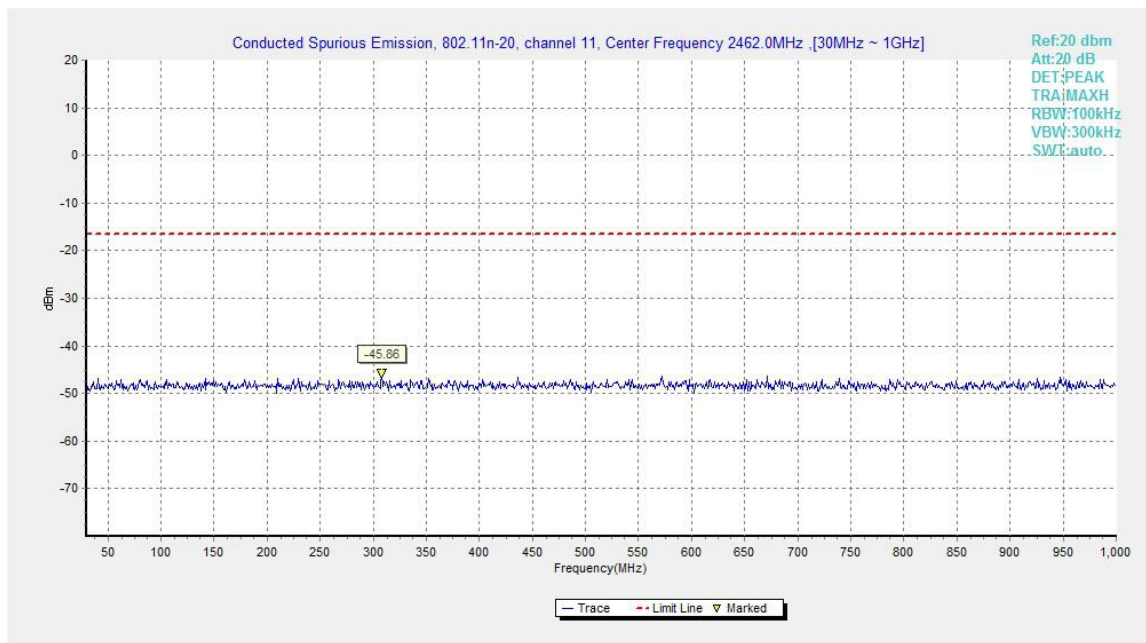


Fig.B.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)

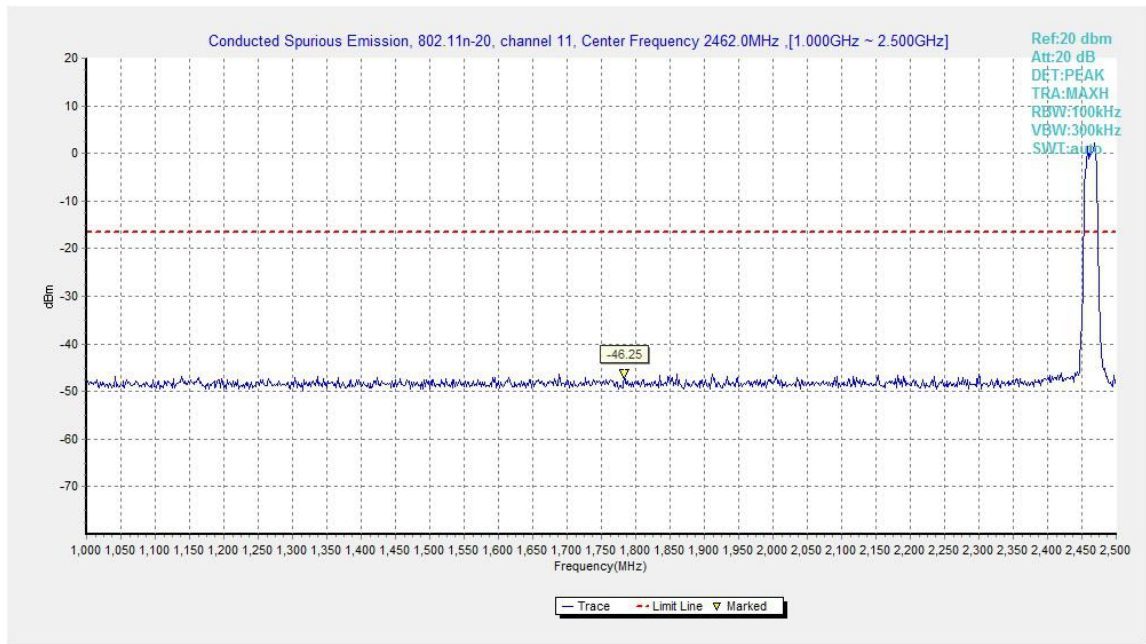


Fig.B.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)

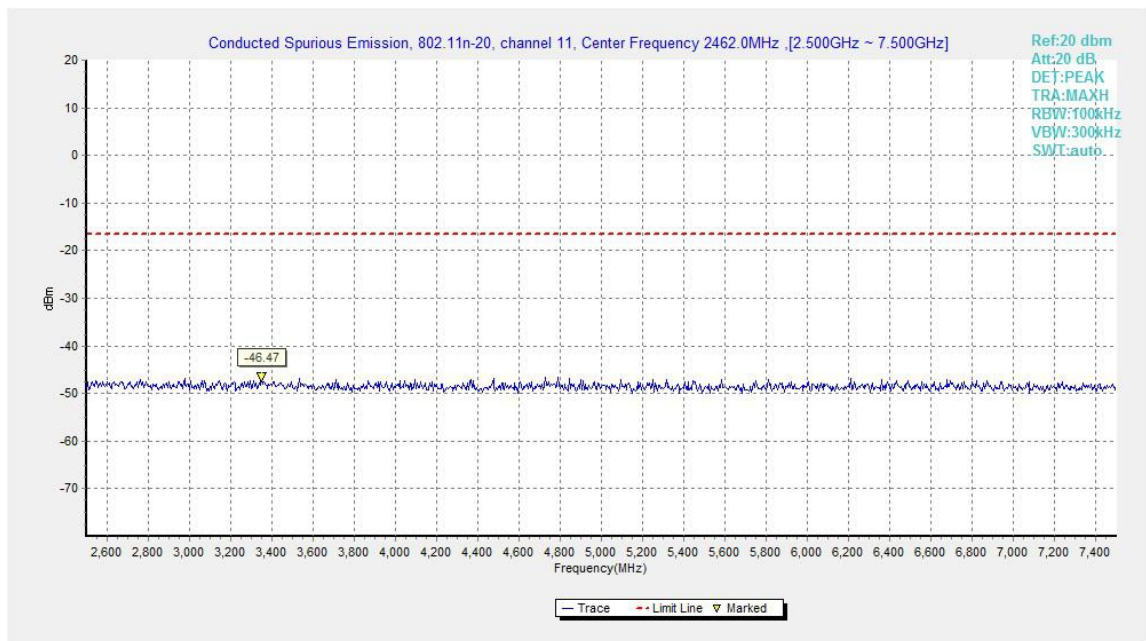


Fig.B.6.1.68 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)

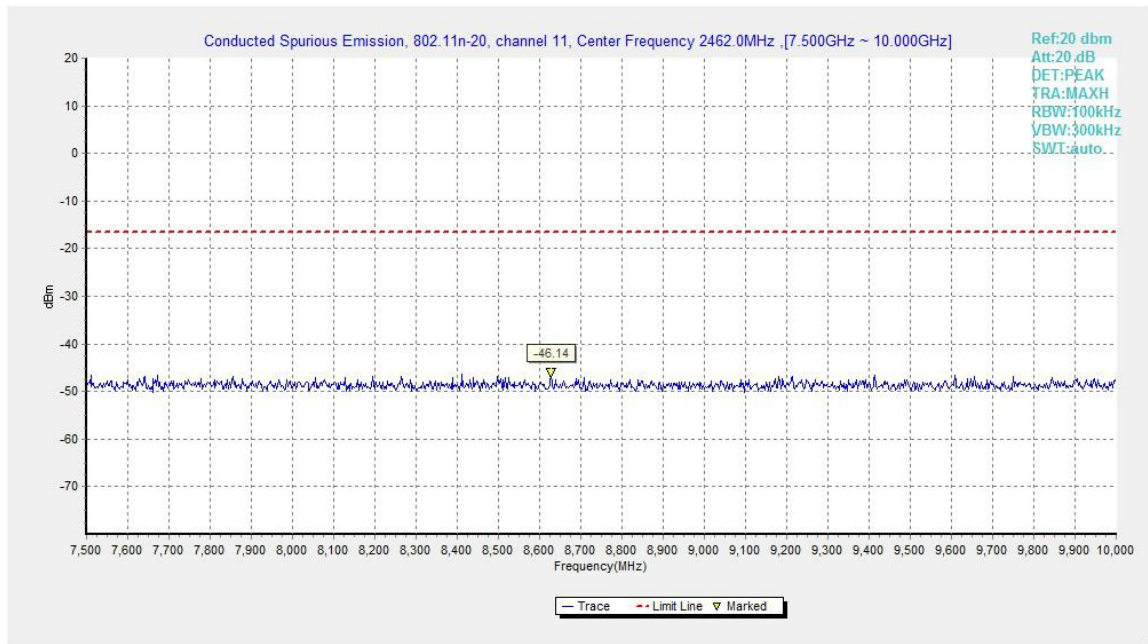


Fig.B.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)

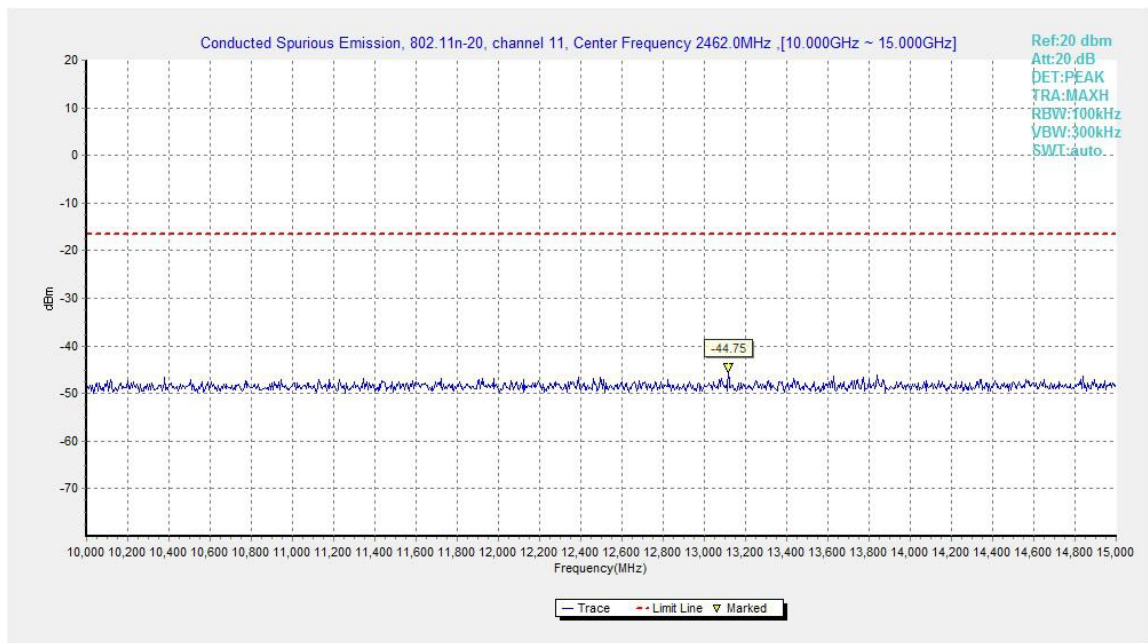


Fig.B.6.1.70 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 10 GHz-15 GHz)

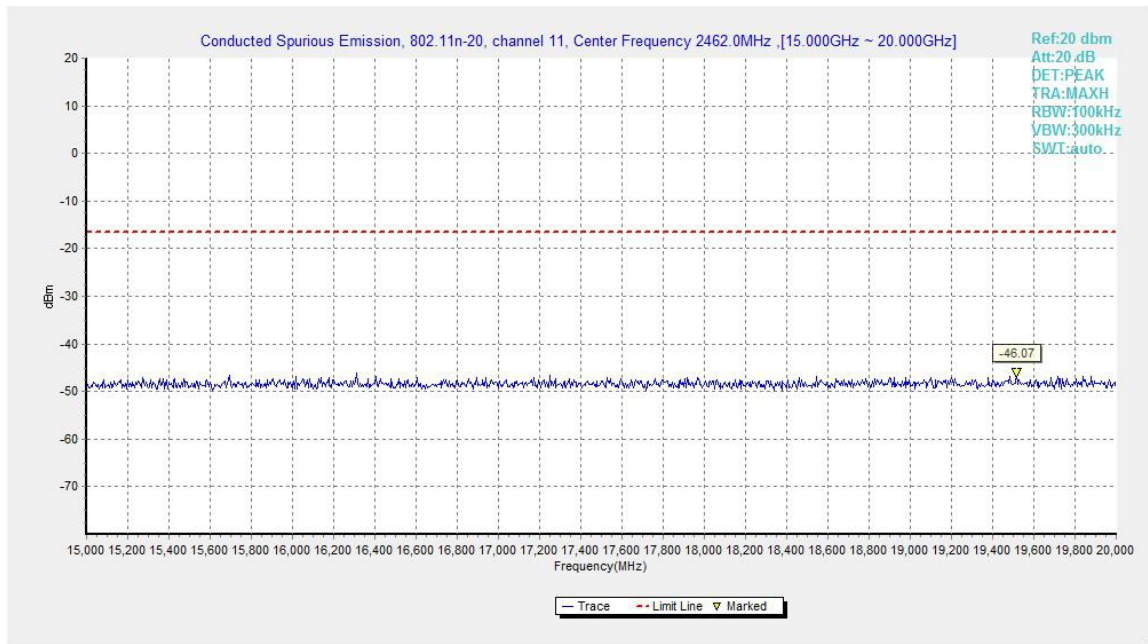


Fig.B.6.1.71 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 15 GHz-20 GHz)

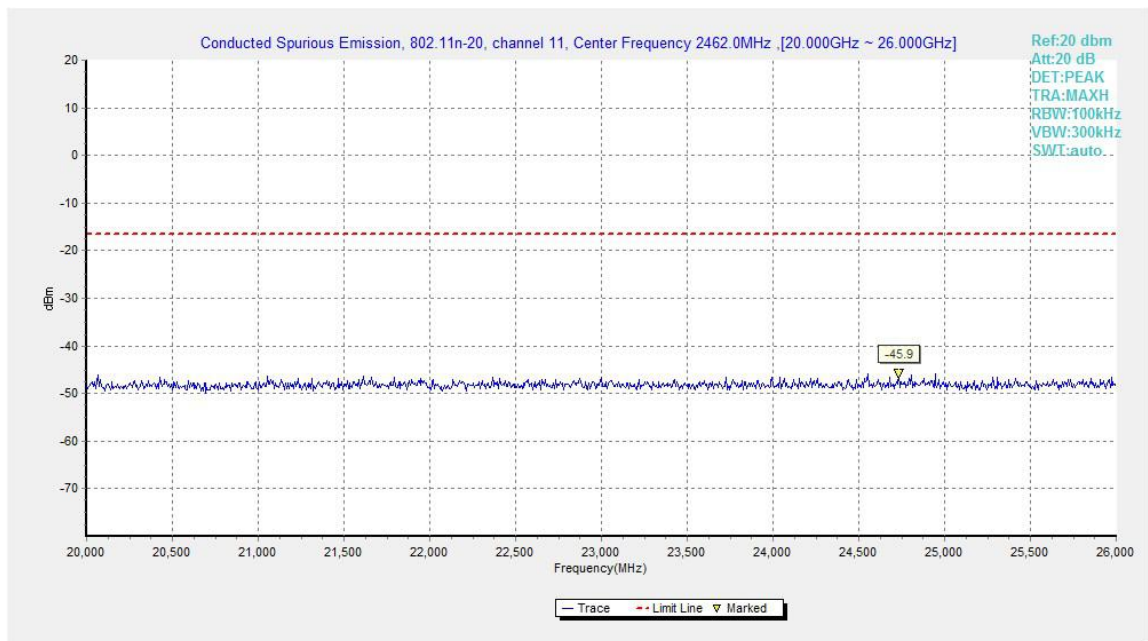


Fig.B.6.1.72 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 20 GHz-26 GHz)

B.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 ANSI C63.10 .

Limit in restricted band:

Frequency of emission (MHz)	Field strength($\mu\text{V}/\text{m}$)	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($\mu\text{V}/\text{m}$)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

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 EUT1:

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
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.2	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power	2.38GHz ~2.43GHz	Fig.A.6.2.3	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.4	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	Power	2.38GHz ~2.45GHz	Fig.A.6.2.5	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.6	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	Power	2.38GHz ~2.45GHz	Fig.A.6.2.7	P
	Power	2.45GHz ~2.5GHz	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:

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

Peak Measurement results
802.11b

Ch1

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17700.5	53.5	-25.7	46	33.3	H	74	20.5
17970.5	53.4	-25.5	46.7	32.2	H	74	20.6
17995	53.3	-25.5	46.7	32.1	H	74	20.7
17341.5	53	-25.9	44.4	34.6	V	74	21
17509	53	-26.9	45.2	34.6	H	74	21
2383.9	55.1	-20	28.1	47.1	H	74	18.9

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17987.5	53.7	-25.5	46.7	32.5	H	74	20.3
17504.5	53.4	-26.9	45.2	35	H	74	20.6
17921.5	53.4	-25.5	46.7	32.2	H	74	20.6
17961.5	53.1	-25.5	46.7	31.9	V	74	20.9
17861.5	53	-25.5	46.7	31.8	V	74	21
17978	52.9	-25.5	46.7	31.7	V	74	21.1

Ch11

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17999	53.5	-25.5	46.7	32.3	H	74	20.5
17583	53.3	-25.7	46	33.1	V	74	20.7
17870.5	53.3	-25.5	46.7	32.1	V	74	20.7
17782	53.1	-25.5	46.7	31.9	V	74	20.9
17960.5	53.1	-25.5	46.7	31.9	V	74	20.9
2485	55.6	-20	28.3	47.3	H	74	18.4

802.11g

Ch1

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17880.5	54.1	-25.5	46.7	32.9	H	74	19.9
17982.5	53.6	-25.5	46.7	32.4	H	74	20.4
17508	53.5	-26.9	45.2	35.1	H	74	20.5
17924.5	53.5	-25.5	46.7	32.3	V	74	20.5
17506	53.2	-26.9	45.2	34.8	V	74	20.8
2389.2	55.8	-20	28.1	47.8	H	74	18.2

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17967	53.4	-25.5	46.7	32.2	V	74	20.6
17991.5	53.4	-25.5	46.7	32.2	V	74	20.6
17908	53.2	-25.5	46.7	32	H	74	20.8
17035.5	53	-26.3	42.4	37	H	74	21
17518.5	53	-26.9	45.2	34.6	V	74	21
17898.5	53	-25.5	46.7	31.8	H	74	21

Ch11

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17913	53.3	-25.5	46.7	32.1	V	74	20.7
17967.5	53.3	-25.5	46.7	32.1	H	74	20.7
17986.5	53	-25.5	46.7	31.8	V	74	21
17503.5	52.9	-26.9	45.2	34.5	H	74	21.1
17507.5	52.9	-26.9	45.2	34.5	V	74	21.1
2486.1	56.2	-20	28.3	47.9	H	74	17.8

802.11n-HT20

Ch1

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17960.5	53.6	-25.5	46.7	32.4	H	74	20.4
17897	53.5	-25.5	46.7	32.3	V	74	20.5
17723.5	53.3	-25.7	46	33.1	H	74	20.7
17930	53.3	-25.5	46.7	32.1	V	74	20.7
17940	53.3	-25.5	46.7	32.1	H	74	20.7
2389.9	56.9	-20	28.1	48.9	H	74	17.1

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17940.5	53.4	-25.5	46.7	32.2	V	74	20.6
17596.5	53.2	-25.7	46	33	V	74	20.8
17990.5	53.1	-25.5	46.7	31.9	H	74	20.9
17996	53.1	-25.5	46.7	31.9	V	74	20.9
17567.5	53	-25.7	46	32.8	V	74	21
17607.5	53	-25.7	46	32.8	V	74	21

Ch11

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17501.5	54	-26.9	45.2	35.6	V	74	20
17913	53.2	-25.5	46.7	32	V	74	20.8
17959	53.2	-25.5	46.7	32	V	74	20.8
17962.5	53	-25.5	46.7	31.8	V	74	21
17888	52.9	-25.5	46.7	31.7	V	74	21.1
2491.7	53.8	-20	28.3	45.5	V	74	20.2

802.11n-HT40

Ch3

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17956	53.9	-25.5	46.7	32.7	V	74	20.1
17970	53.5	-25.5	46.7	32.3	H	74	20.5
17498.5	53.3	-26.9	45.2	34.9	H	74	20.7
17873.5	53.3	-25.5	46.7	32.1	H	74	20.7
17977	53.3	-25.5	46.7	32.1	V	74	20.7
2387.9	63.8	-20	28.1	55.8	H	74	10.2

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17893	54.4	-25.5	46.7	33.2	V	74	19.6
17970.5	53.6	-25.5	46.7	32.4	H	74	20.4
17803.5	53.4	-25.5	46.7	32.2	V	74	20.6
17926	53.1	-25.5	46.7	31.9	V	74	20.9
17483	53	-26.9	45.2	34.6	H	74	21
17592.5	53	-25.7	46	32.8	V	74	21

Ch9

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17387.5	53.1	-26.9	45.2	34.7	V	74	20.9
17803	53.1	-25.5	46.7	31.9	V	74	20.9
17851	53.1	-25.5	46.7	31.9	H	74	20.9
17994.5	53.1	-25.5	46.7	31.9	V	74	20.9
17268.5	53	-25.9	44.4	34.6	V	74	21
2485.6	55.8	-20	28.3	47.5	V	74	18.2

Average Measurement results
802.11b

Ch1

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17996	42.3	-25.5	46.7	21.1	V	54	11.7
17500.5	42.2	-26.9	45.2	23.8	H	54	11.8
17973.5	42.2	-25.5	46.7	21	V	54	11.8
17805.5	42.1	-25.5	46.7	20.9	V	54	11.9
17993.5	42.1	-25.5	46.7	20.9	H	54	11.9
2387.7	43	-20	28.1	35	H	54	11

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17982.5	42.4	-25.5	46.7	21.2	V	54	11.6
17996	42.3	-25.5	46.7	21.1	V	54	11.7
17985	42.2	-25.5	46.7	21	V	54	11.8
17992	42.2	-25.5	46.7	21	V	54	11.8
17899	42.1	-25.5	46.7	20.9	V	54	11.9
17942	42.1	-25.5	46.7	20.9	H	54	11.9

Ch11

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17983.5	42.7	-25.5	46.7	21.5	V	54	11.3
17965	42.3	-25.5	46.7	21.1	V	54	11.7
17981	42.2	-25.5	46.7	21	H	54	11.8
17998.5	42.2	-25.5	46.7	21	V	54	11.8
17902.5	42.1	-25.5	46.7	20.9	H	54	11.9
2485	42.9	-20	28.3	34.6	H	54	11.1

802.11g

Ch1

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17941	42.5	-25.5	46.7	21.3	V	54	11.5
17963	42.4	-25.5	46.7	21.2	H	54	11.6
17996	42.3	-25.5	46.7	21.1	V	54	11.7
17903	42.2	-25.5	46.7	21	V	54	11.8
17982	42.2	-25.5	46.7	21	V	54	11.8
2389.5	43.6	-20	28.1	35.6	H	54	10.4

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17969	42.3	-25.5	46.7	21.1	H	54	11.7
17992.5	42.3	-25.5	46.7	21.1	V	54	11.7
17987	42.2	-25.5	46.7	21	V	54	11.8
17996	42.2	-25.5	46.7	21	V	54	11.8
17950.5	42	-25.5	46.7	20.8	H	54	12
17953.5	42	-25.5	46.7	20.8	H	54	12

Ch11

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17898	42.5	-25.5	46.7	21.3	V	54	11.5
17945.5	42.2	-25.5	46.7	21	H	54	11.8
17985	42.2	-25.5	46.7	21	V	54	11.8
17997	42.2	-25.5	46.7	21	V	54	11.8
17969.5	42.1	-25.5	46.7	20.9	H	54	11.9
2485.3	43.1	-20	28.3	34.8	H	54	10.9

802.11n-HT20
Ch1

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17903	42.5	-25.5	46.7	21.3	V	54	11.5
17964	42.2	-25.5	46.7	21	H	54	11.8
17980.5	42.2	-25.5	46.7	21	H	54	11.8
17997	42.1	-25.5	46.7	20.9	V	54	11.9
17883	42	-25.5	46.7	20.8	V	54	12
2389.9	44.5	-20	28.1	36.5	H	54	9.5

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17985	42.2	-25.5	46.7	21	V	54	11.8
17893	42.1	-25.5	46.7	20.9	V	54	11.9
17973.5	42.1	-25.5	46.7	20.9	H	54	11.9
17998	42.1	-25.5	46.7	20.9	V	54	11.9
17969	42	-25.5	46.7	20.8	H	54	12
17979	42	-25.5	46.7	20.8	V	54	12

Ch11

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17941	42.1	-25.5	46.7	20.9	V	54	11.9
17981.5	42.1	-25.5	46.7	20.9	H	54	11.9
17988	42.1	-25.5	46.7	20.9	H	54	11.9
17995.5	42.1	-25.5	46.7	20.9	V	54	11.9
17896	42	-25.5	46.7	20.8	V	54	12
2485.8	41.4	-20	28.3	33.1	V	54	12.6

802.11n-HT40

Ch3

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17980.5	42.9	-25.5	46.7	21.7	V	54	11.1
17988.5	42.2	-25.5	46.7	21	V	54	11.8
17895	42.1	-25.5	46.7	20.9	V	54	11.9
17992.5	42.1	-25.5	46.7	20.9	V	54	11.9
17999	42.1	-25.5	46.7	20.9	V	54	11.9
2389.2	44.3	-20	28.1	36.3	H	54	9.7

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17996.5	42.3	-25.5	46.7	21.1	V	54	11.7
17989	42.2	-25.5	46.7	21	V	54	11.8
17898	42	-25.5	46.7	20.8	V	54	12
17993	42	-25.5	46.7	20.8	V	54	12
17506.5	41.9	-26.9	45.2	23.5	V	54	12.1
17960	41.9	-25.5	46.7	20.7	V	54	12.1

Ch9

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17979.5	42.2	-25.5	46.7	21	H	54	11.8
17909	42.1	-25.5	46.7	20.9	H	54	11.9
17999	42.1	-25.5	46.7	20.9	V	54	11.9
17506.5	42	-26.9	45.2	23.6	H	54	12
17875.5	41.9	-25.5	46.7	20.7	V	54	12.1
2485.1	42.3	-20	28.3	34	V	54	11.7

Test graphs as below:

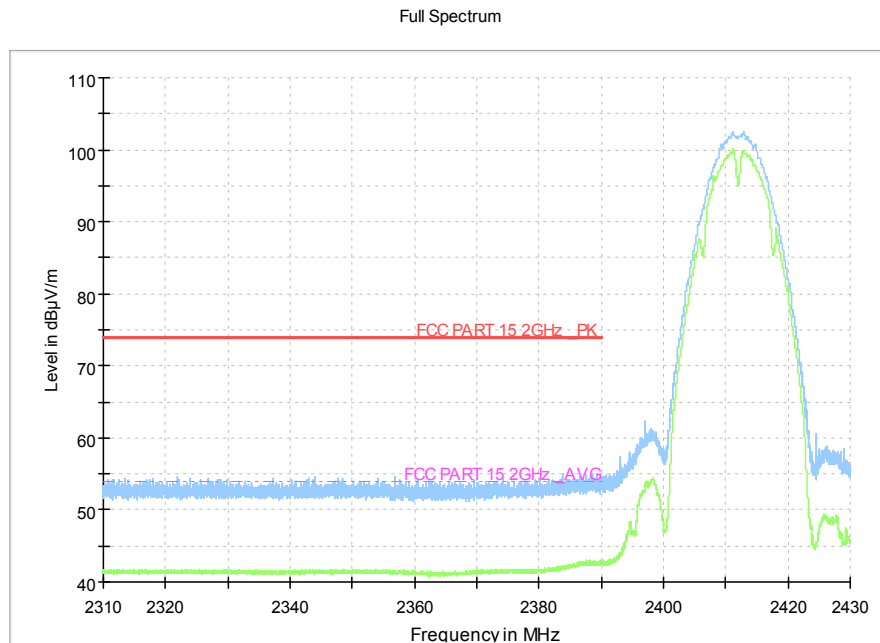


Fig.B.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.38 GHz – 2.45GHz

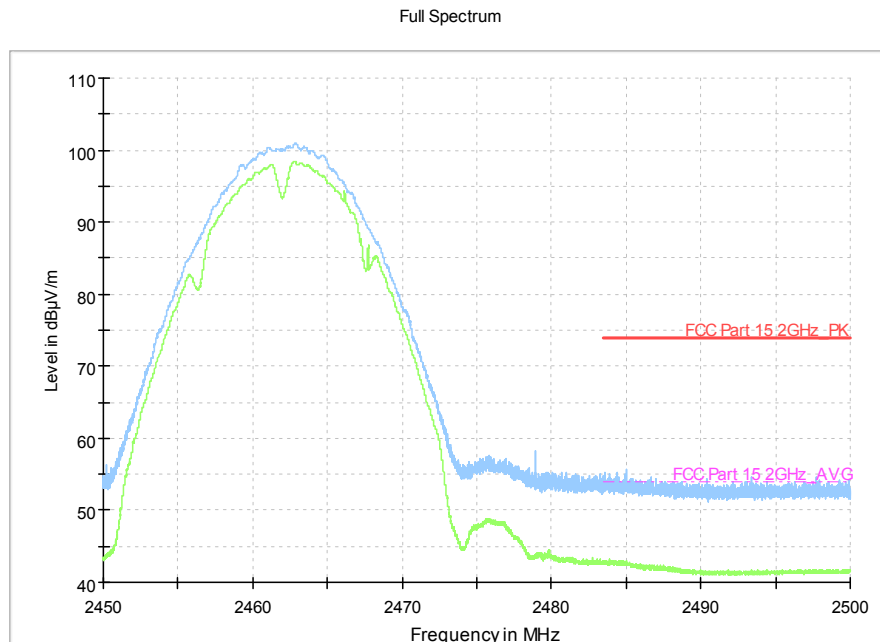


Fig.B.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

Full Spectrum

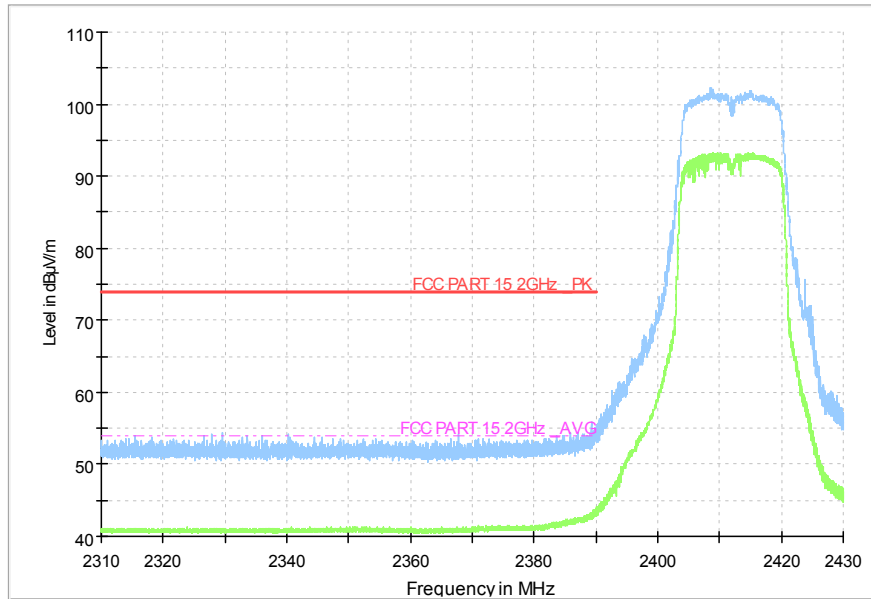


Fig.B.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

Full Spectrum

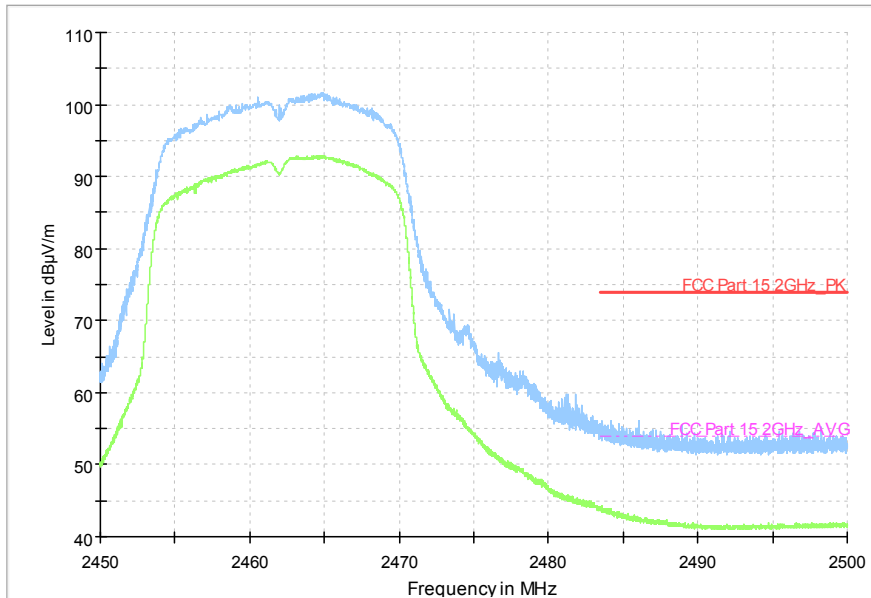


Fig.B.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

Full Spectrum

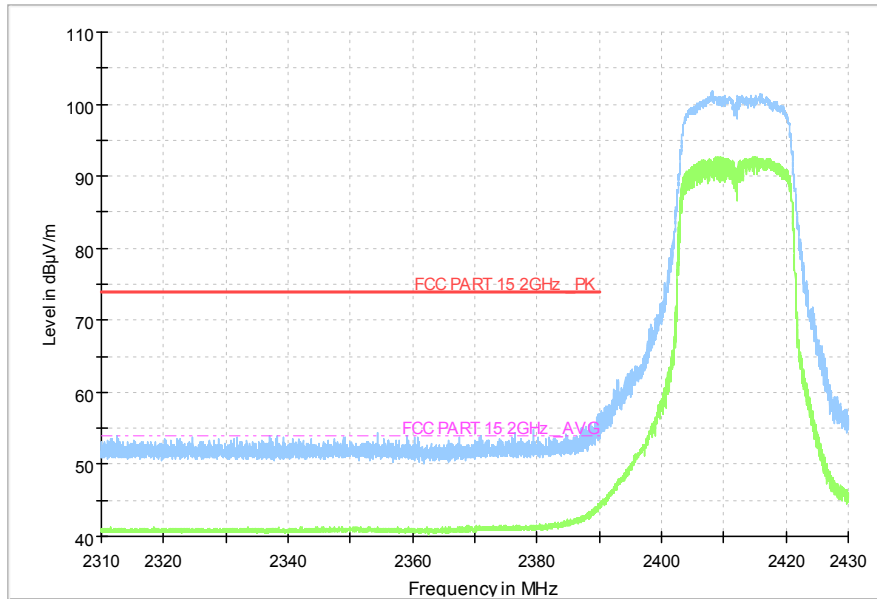


Fig.B.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

Full Spectrum

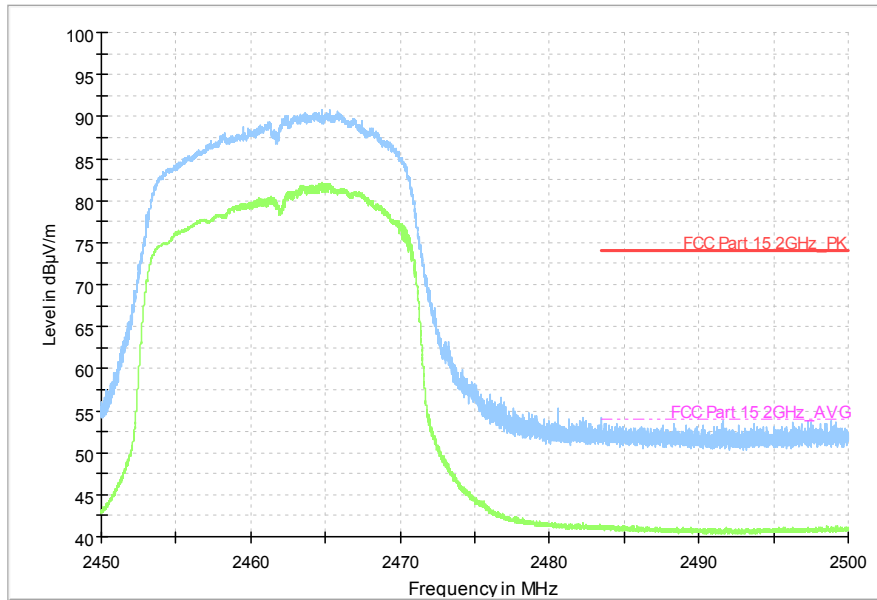


Fig.B.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

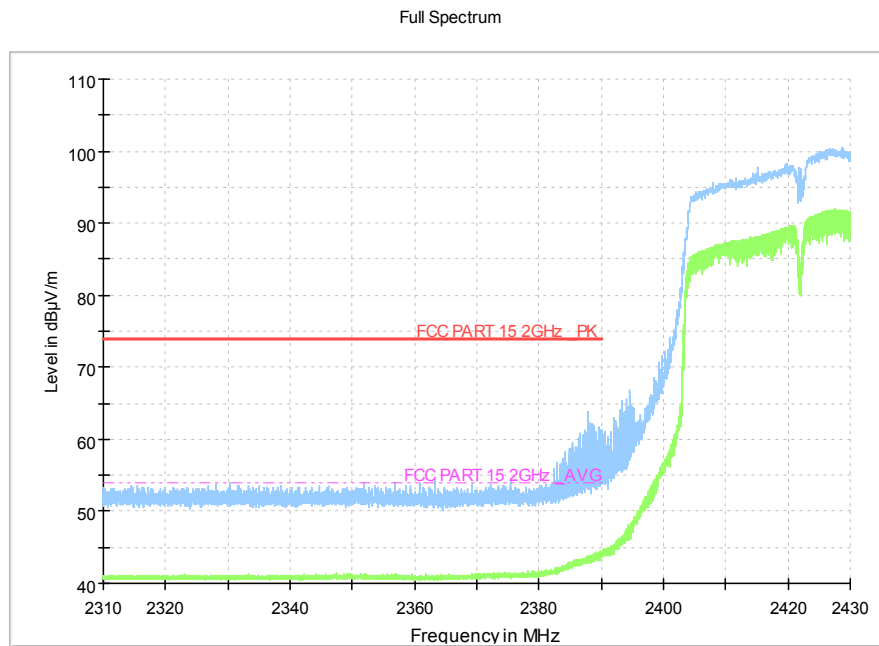


Fig.B.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.45GHz

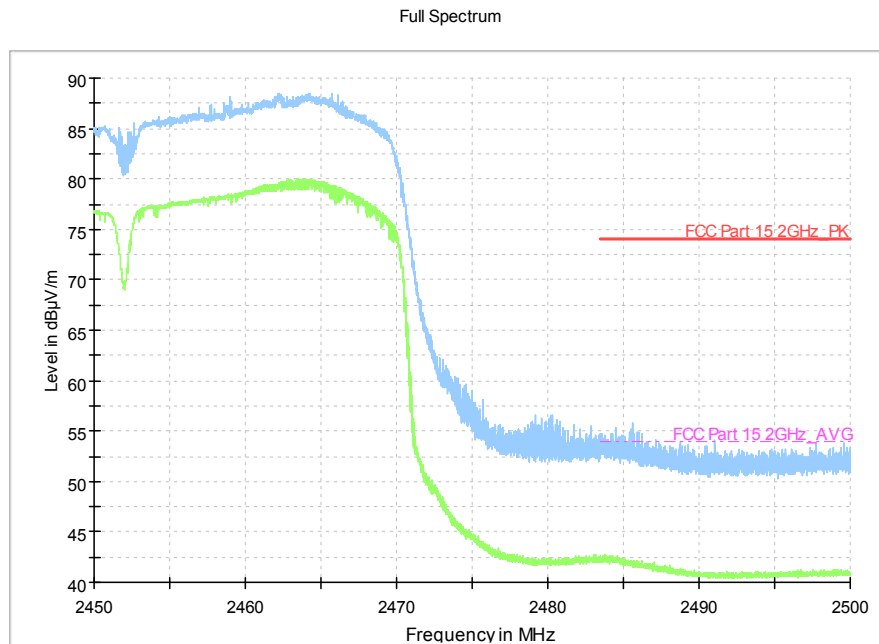


Fig.B.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

B.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 Result and limit:

EUT1 with AE1 & AE2

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
Test graphs as below:

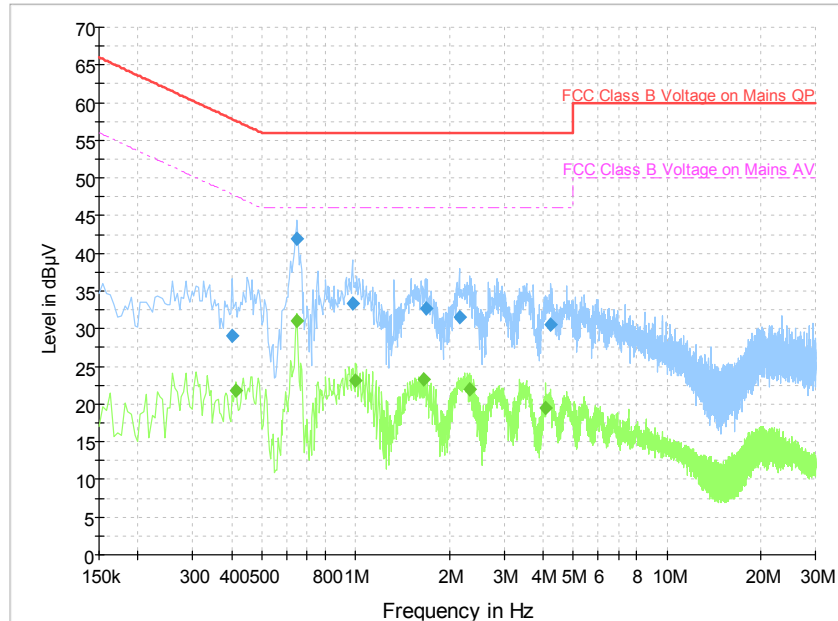


Fig.B.7.1 AC Powerline Conducted Emission-802.11b

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)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.402000	29.1	L1	19.6	28.7	57.8
0.649500	42.0	L1	19.6	14.0	56.0
0.978000	33.3	L1	19.6	22.7	56.0
1.680000	32.7	L1	19.6	23.3	56.0
2.152500	31.5	L1	19.6	24.5	56.0
4.245000	30.5	L1	19.8	25.5	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.411000	21.9	L1	19.6	25.8	47.6
0.645000	31.0	L1	19.6	15.0	46.0
1.000500	23.1	L1	19.6	22.9	46.0
1.653000	23.3	L1	19.6	22.7	46.0
2.319000	21.9	L1	19.6	24.1	46.0
4.078500	19.5	L1	19.7	26.5	46.0

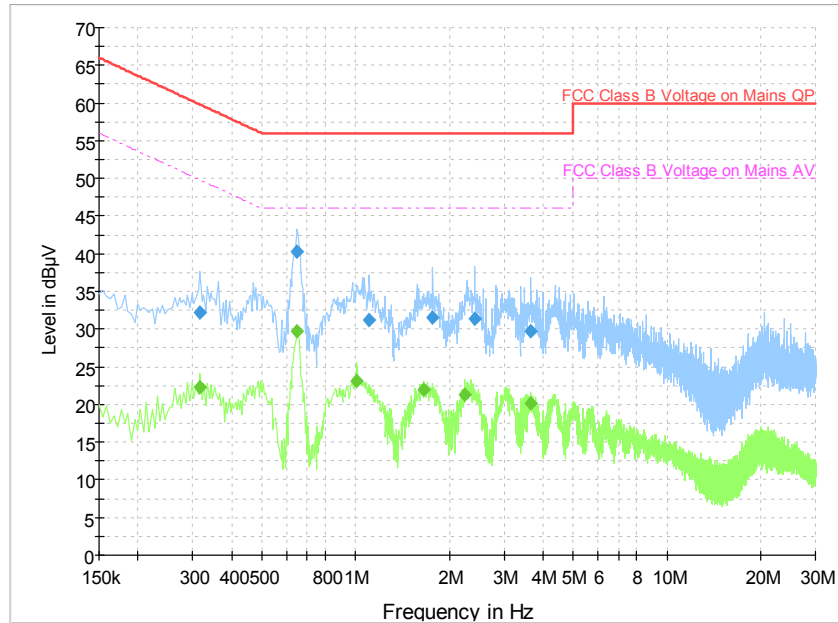


Fig.B.7.2 AC Powerline Conducted Emission-Idle

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



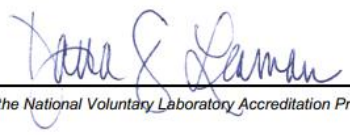

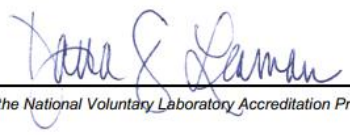

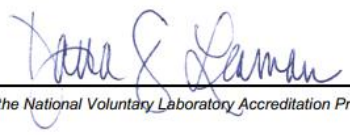
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.316500	32.1	L1	19.6	27.7	59.8
0.649500	40.3	L1	19.6	15.7	56.0
1.108500	31.2	L1	19.6	24.8	56.0
1.770000	31.6	L1	19.5	24.4	56.0
2.409000	31.4	L1	19.6	24.6	56.0
3.646500	29.7	L1	19.7	26.3	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.316500	22.3	L1	19.6	27.5	49.8
0.649500	29.8	L1	19.6	16.2	46.0
1.009500	23.1	L1	19.6	22.9	46.0
1.648500	21.9	L1	19.6	24.1	46.0
2.238000	21.3	L1	19.6	24.7	46.0
3.646500	20.1	L1	19.7	25.9	46.0

ANNEX C: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p> <p>NVLAP[®] </p> <hr/> <p>Certificate of Accreditation to ISO/IEC 17025:2017</p> <hr/> <p>NVLAP LAB CODE: 600118-0</p> <p>Telecommunication Technology Labs, CAICT Beijing China</p> <p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p> <p>Electromagnetic Compatibility & Telecommunications</p> <p><i>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).</i></p> <hr/> <table border="0" style="width: 100%;"><tr><td style="width: 40%; text-align: center;"><p>2020-09-29 through 2021-09-30 <i>Effective Dates</i></p></td><td style="width: 20%; text-align: center;"></td><td style="width: 40%; text-align: center;"><p> <i>For the National Voluntary Laboratory Accreditation Program</i></p></td></tr></table>		<p>2020-09-29 through 2021-09-30 <i>Effective Dates</i></p>		<p> <i>For the National Voluntary Laboratory Accreditation Program</i></p>
<p>2020-09-29 through 2021-09-30 <i>Effective Dates</i></p>		<p> <i>For the National Voluntary Laboratory Accreditation Program</i></p>		

END OF REPORT