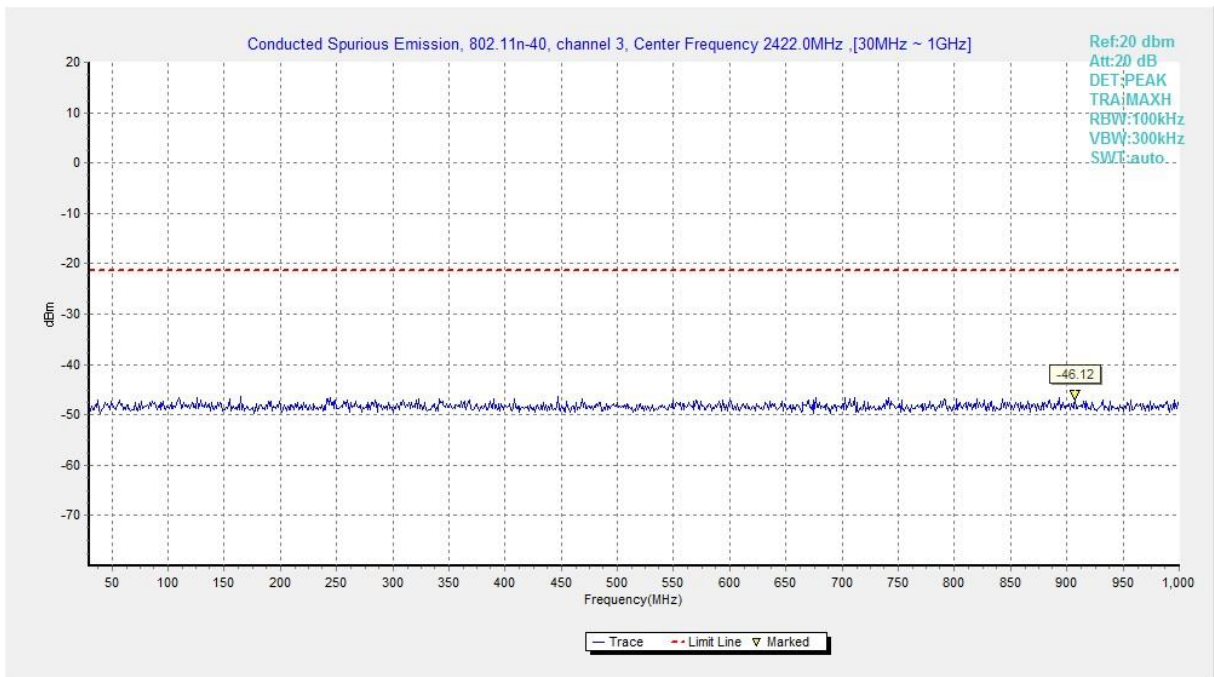
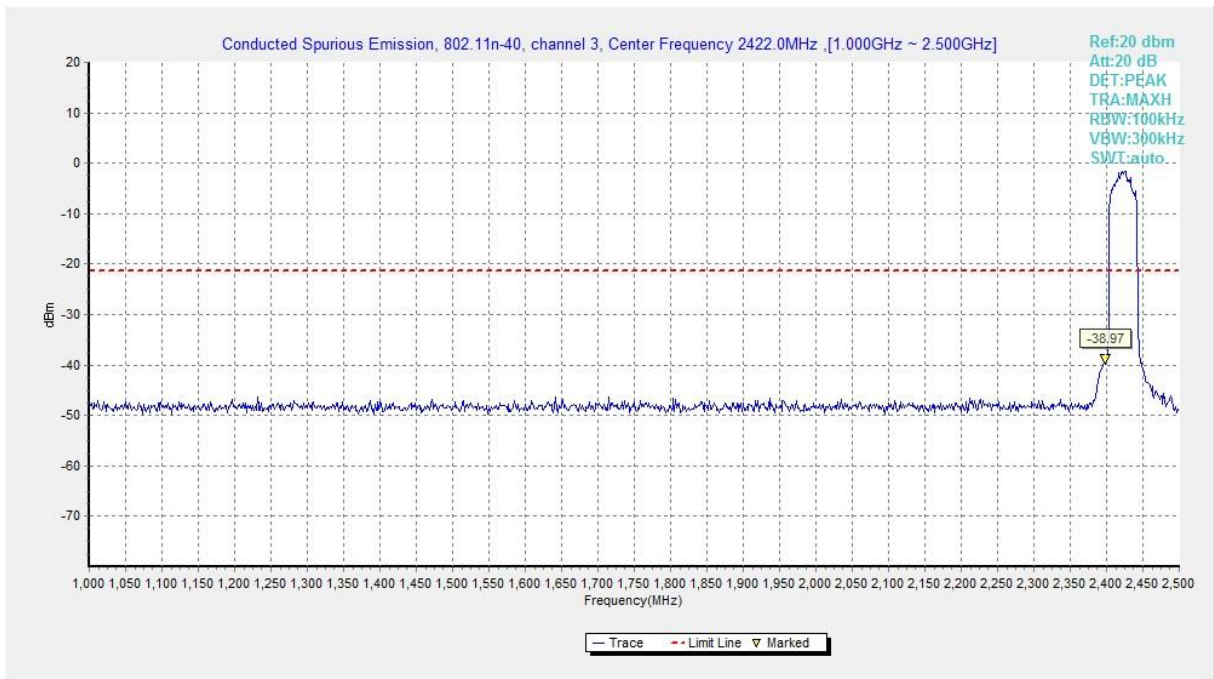


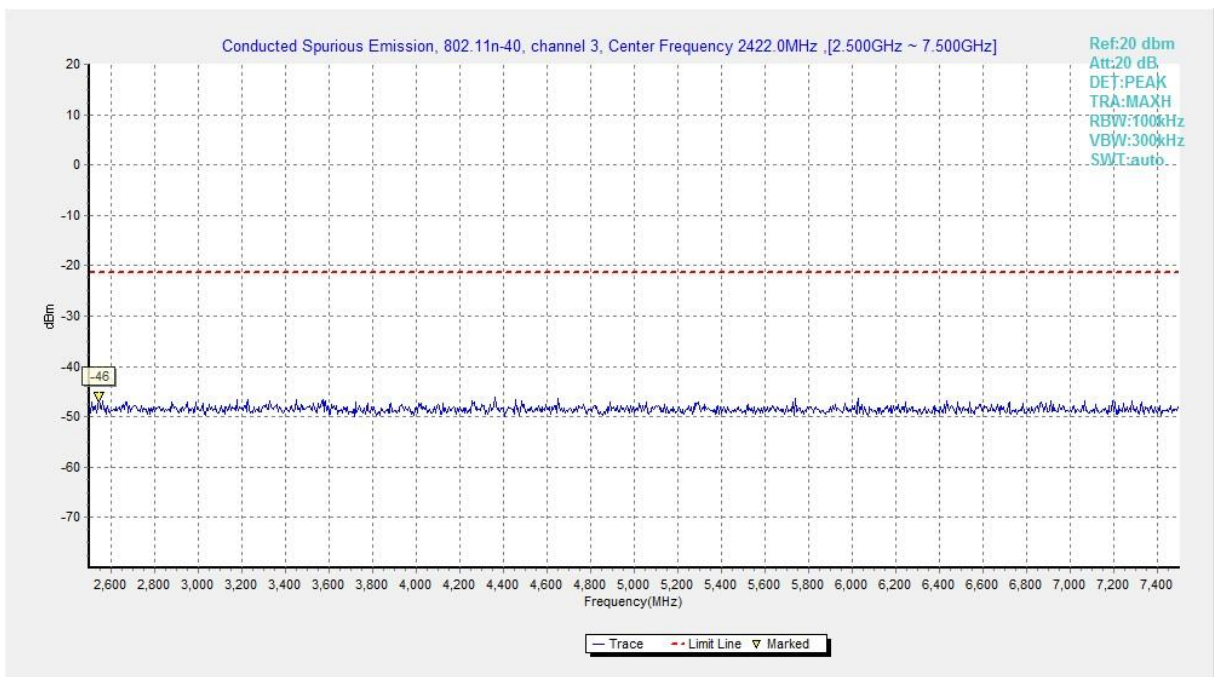
**Fig.A.6.1.73 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, Center Frequency)**



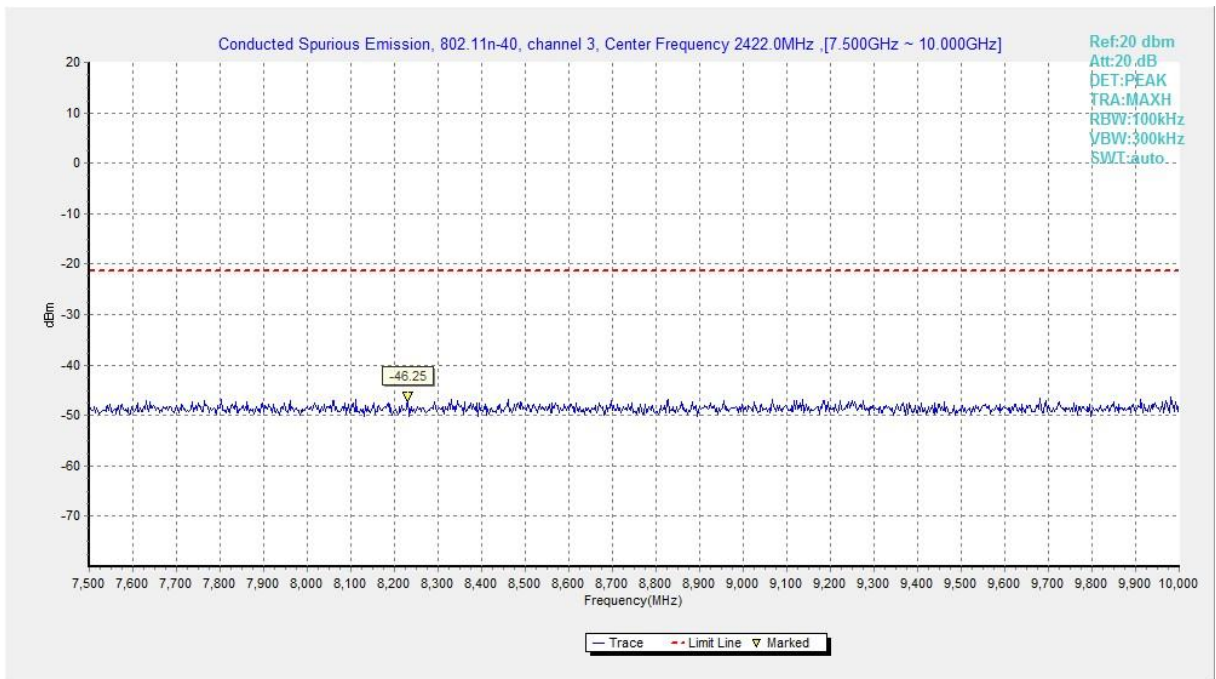
**Fig.A.6.1.74 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 30 MHz-1 GHz)**



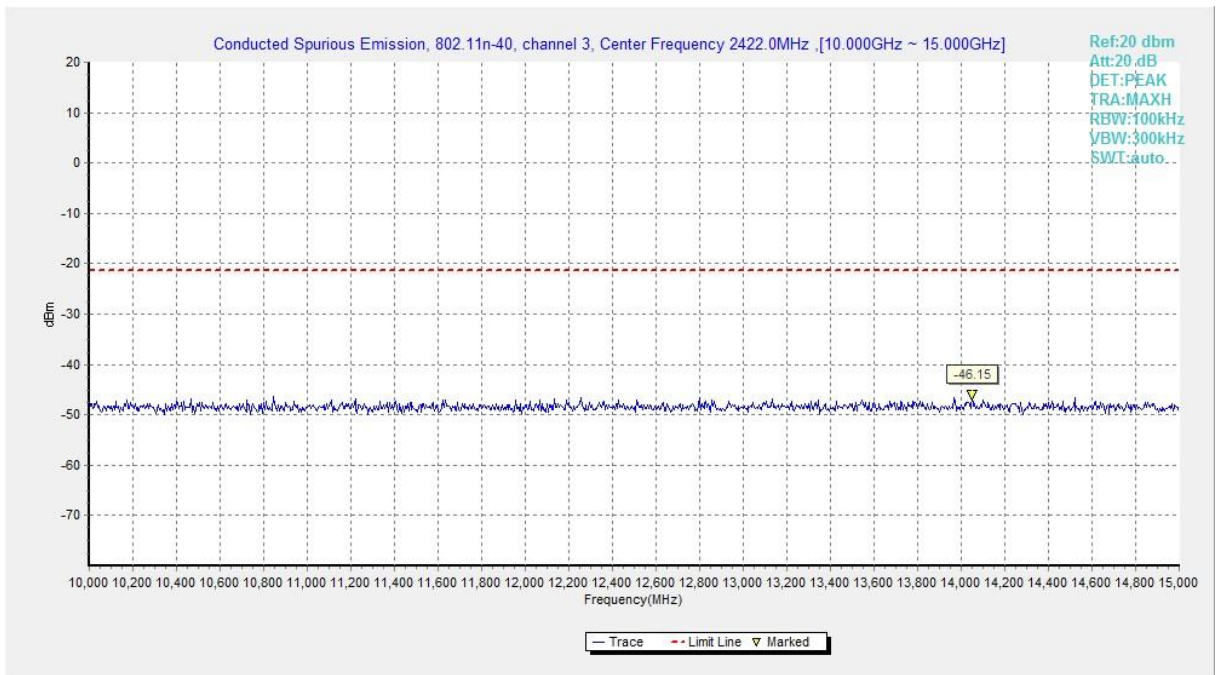
**Fig.A.6.1.75 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 1 GHz-2.5 GHz)**



**Fig.A.6.1.76 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 2.5 GHz-7.5 GHz)**

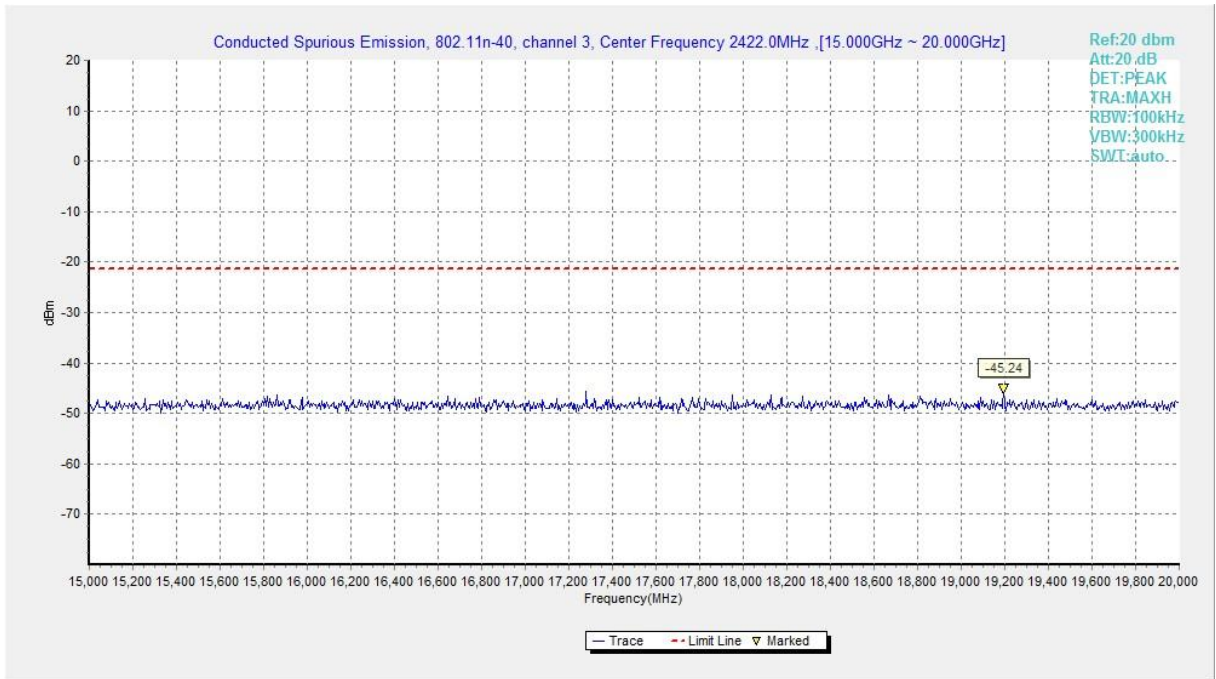


**Fig.A.6.1.77 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 7.5 GHz-10 GHz)**

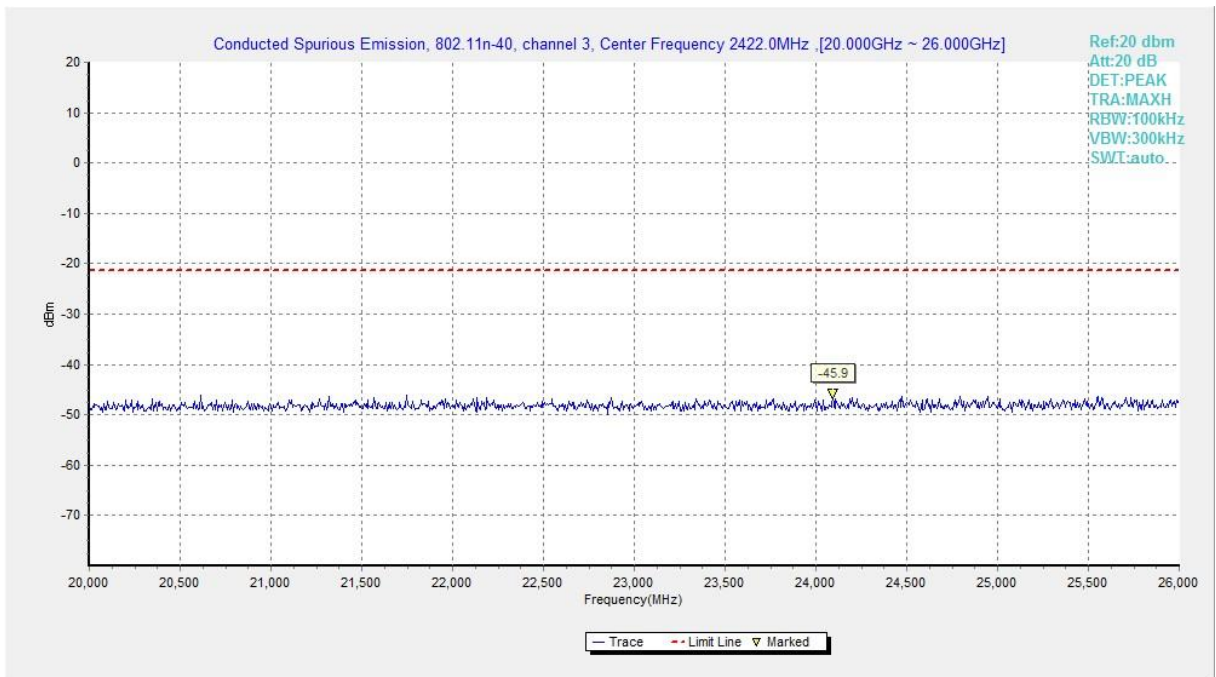


**Fig.A.6.1.78 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 10 GHz-15 GHz)**

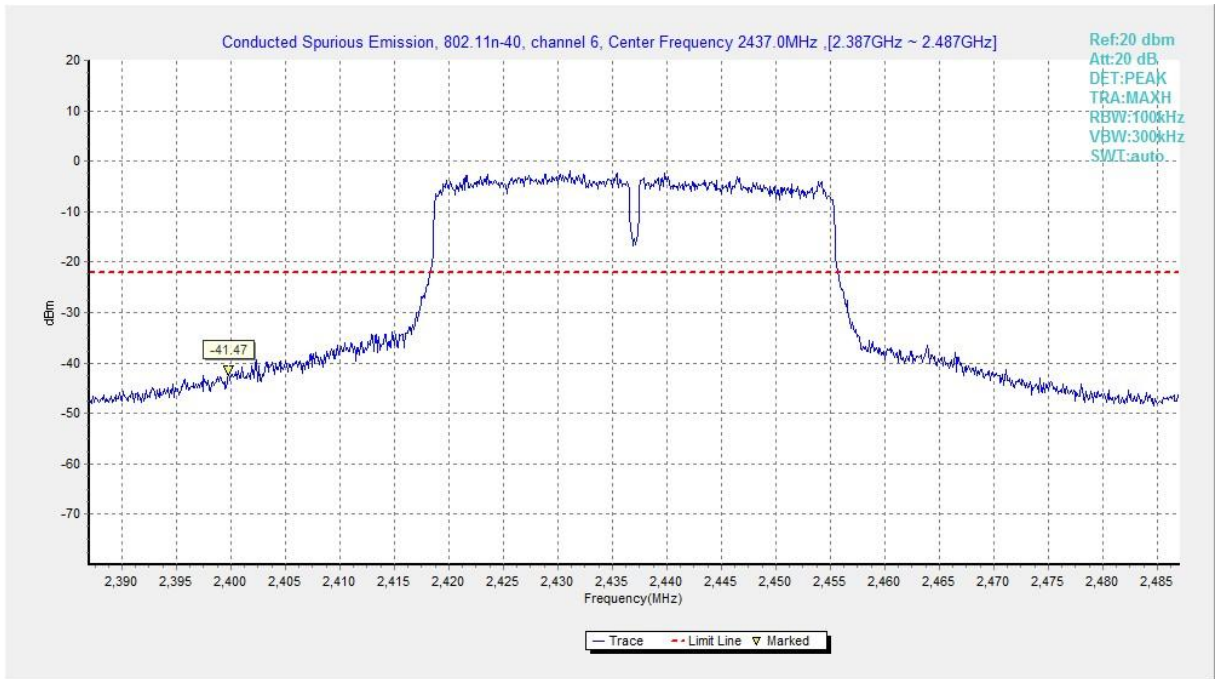




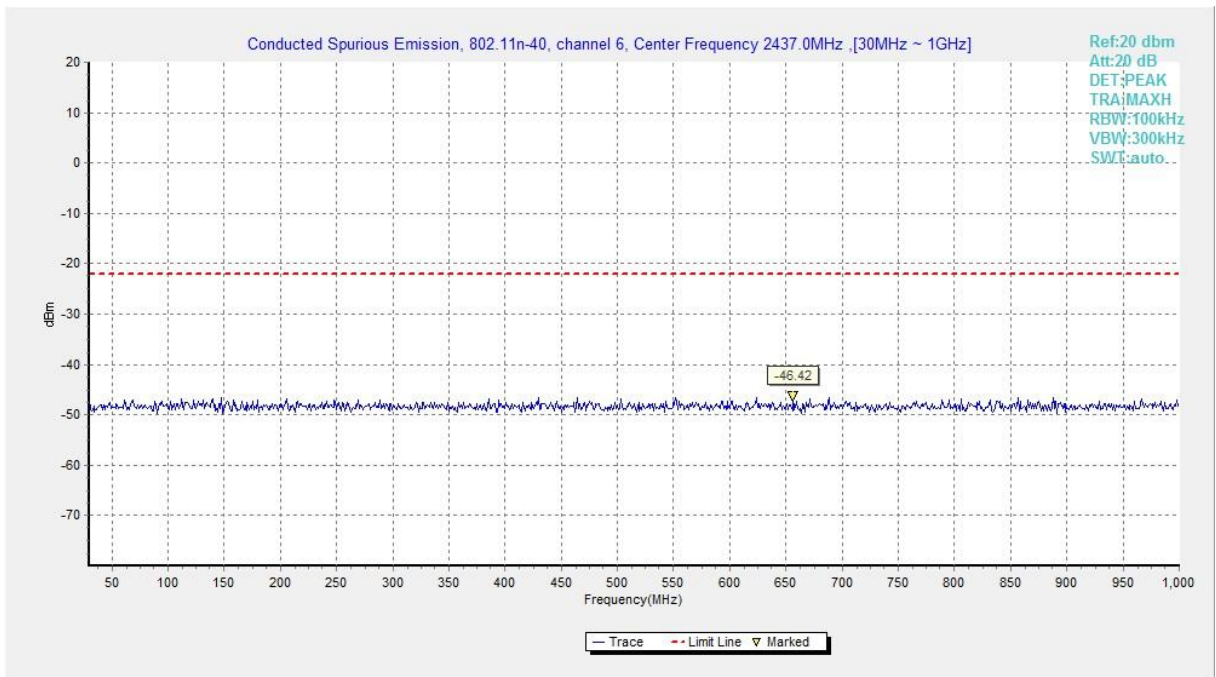
**Fig.A.6.1.79 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 15 GHz-20 GHz)**



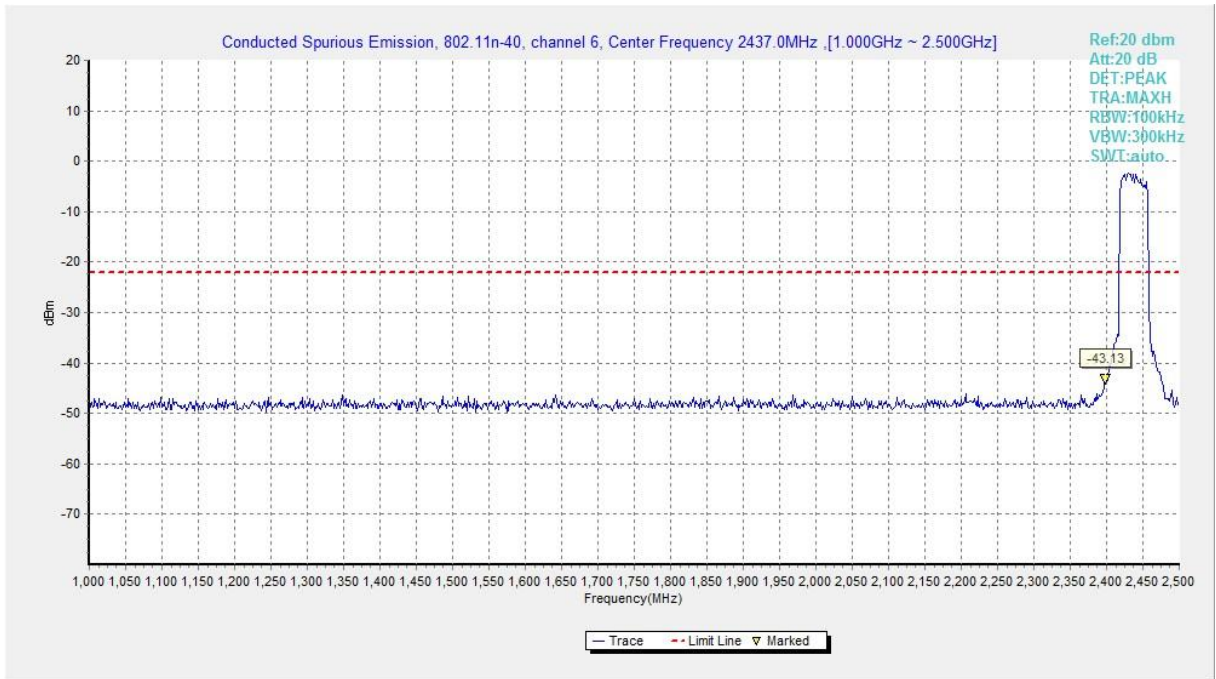
**Fig.A.6.1.80 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 20 GHz-26 GHz)**



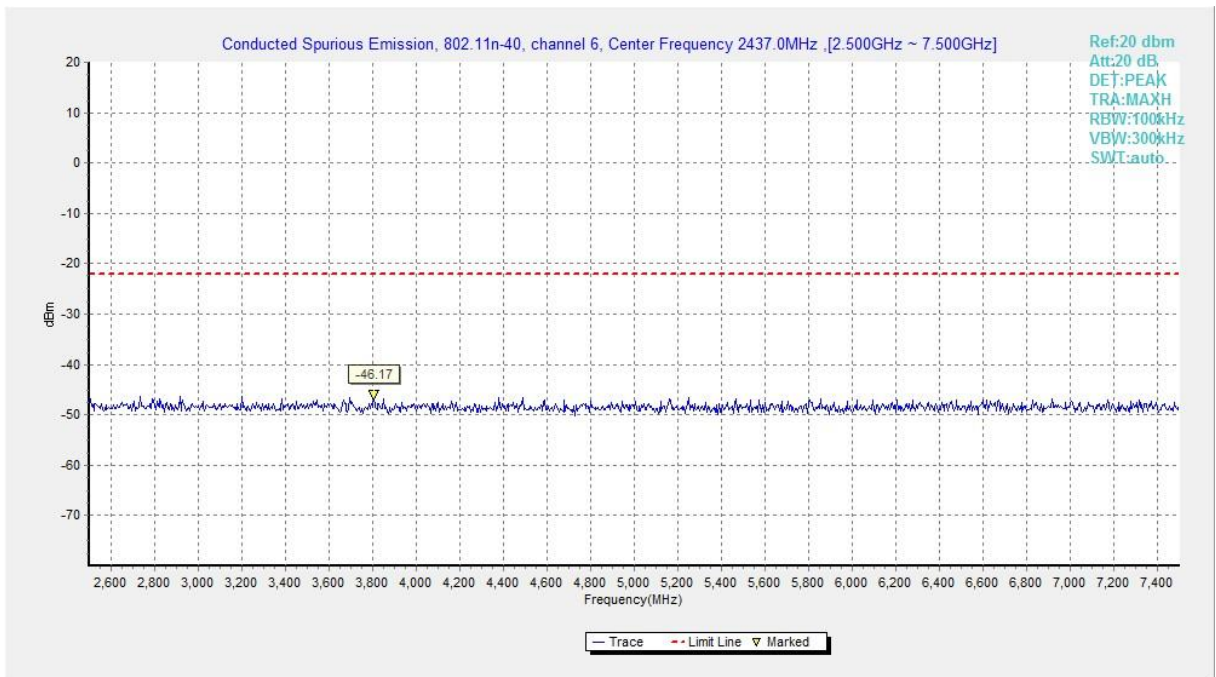
**Fig.A.6.1.81 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, Center Frequency)**



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

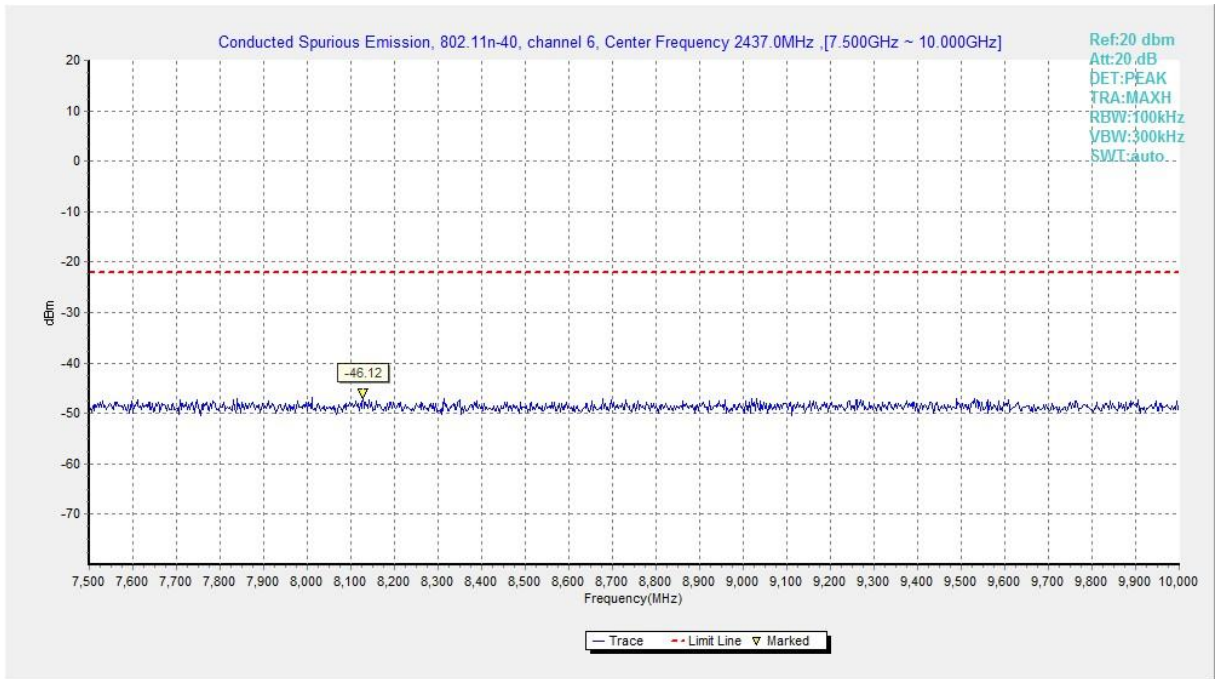


**Fig.A.6.1.83 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 1 GHz-2.5 GHz)**

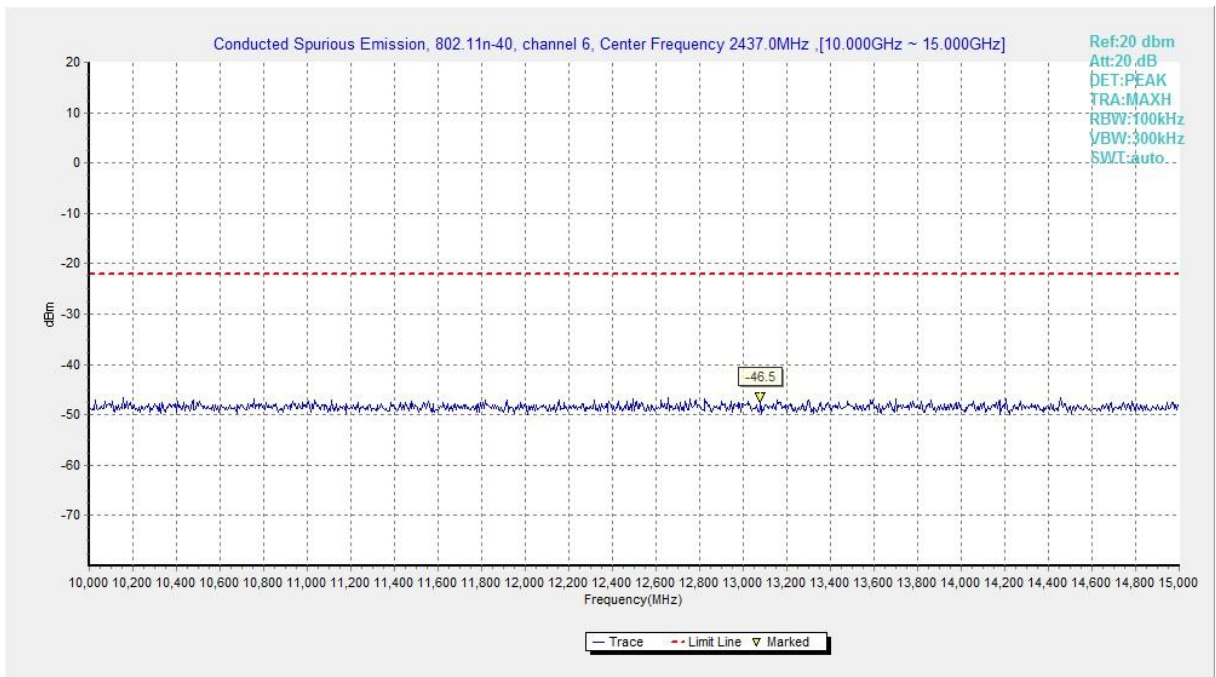


**Fig.A.6.1.84 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 2.5 GHz-7.5 GHz)**

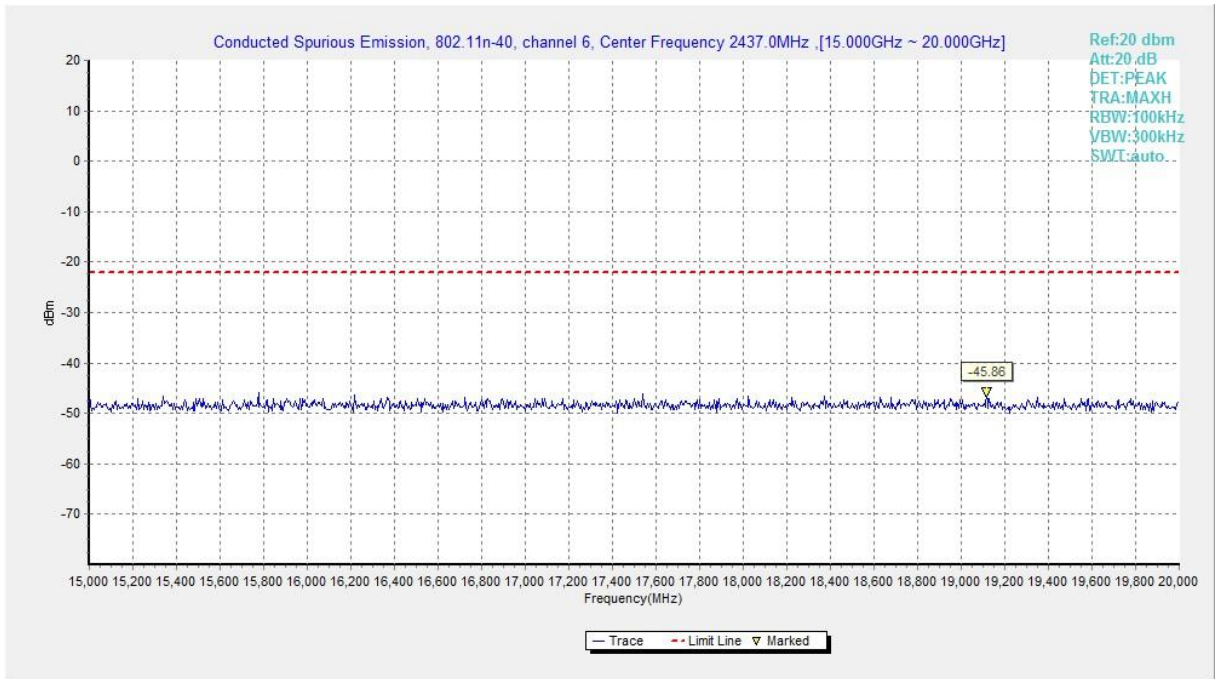




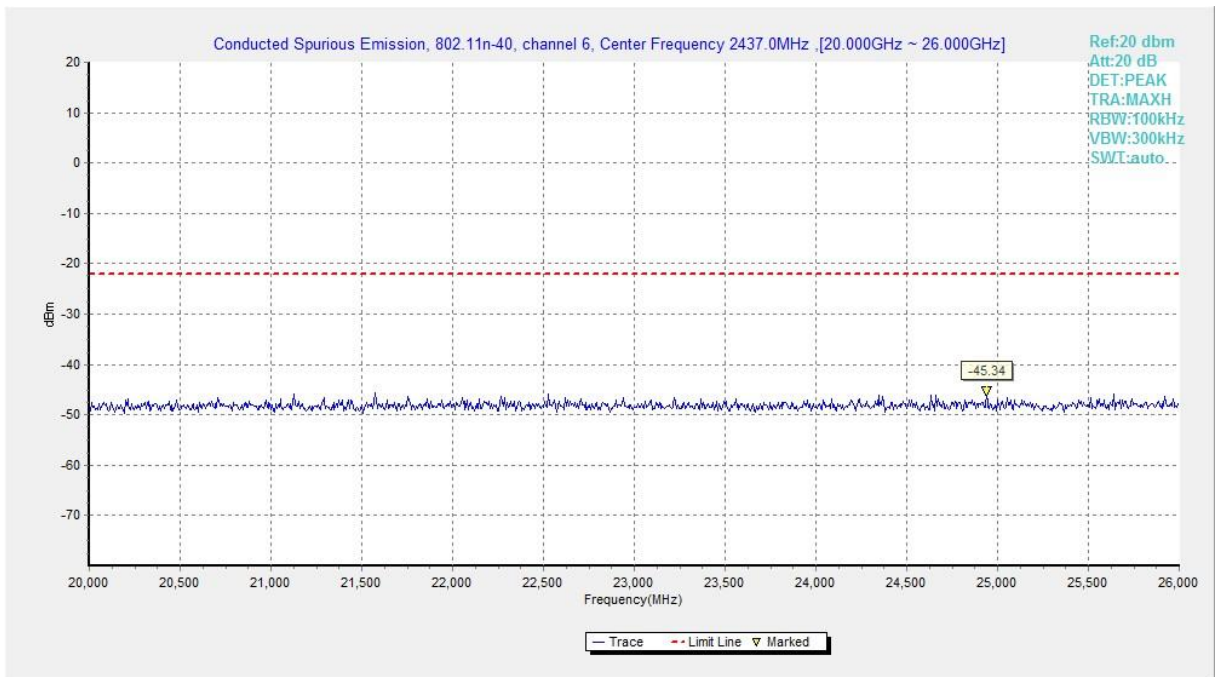
**Fig.A.6.1.85 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 7.5 GHz-10 GHz)**



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

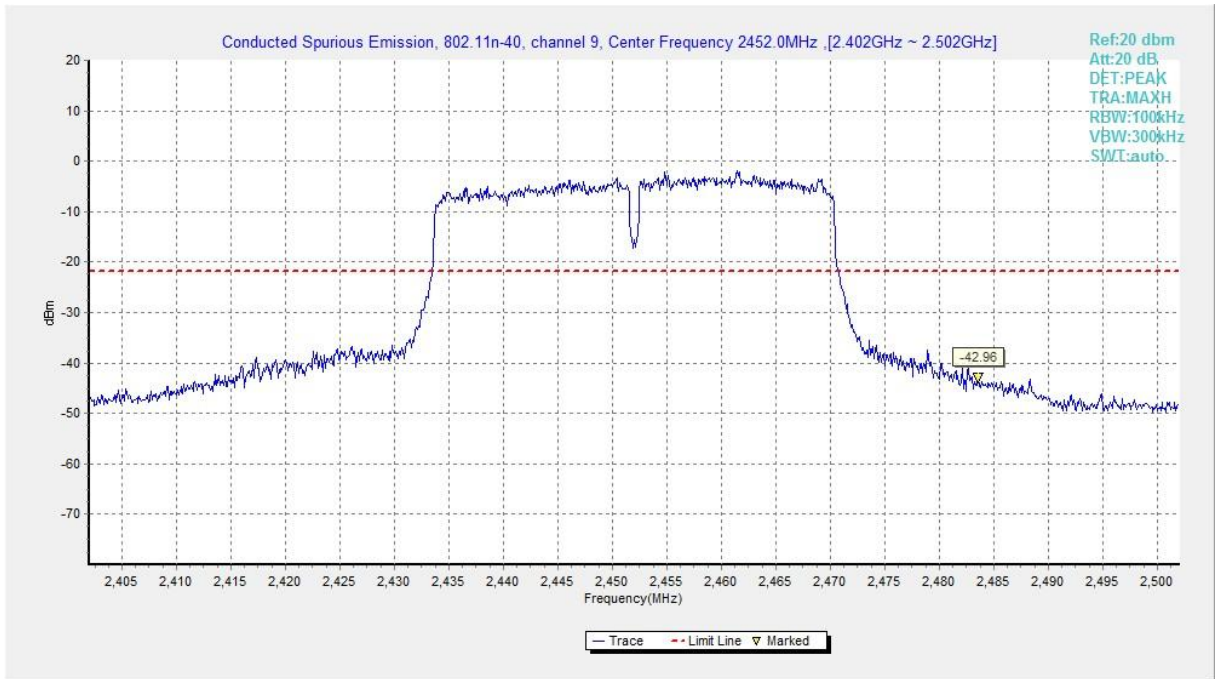


**Fig.A.6.1.87 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 15 GHz-20 GHz)**

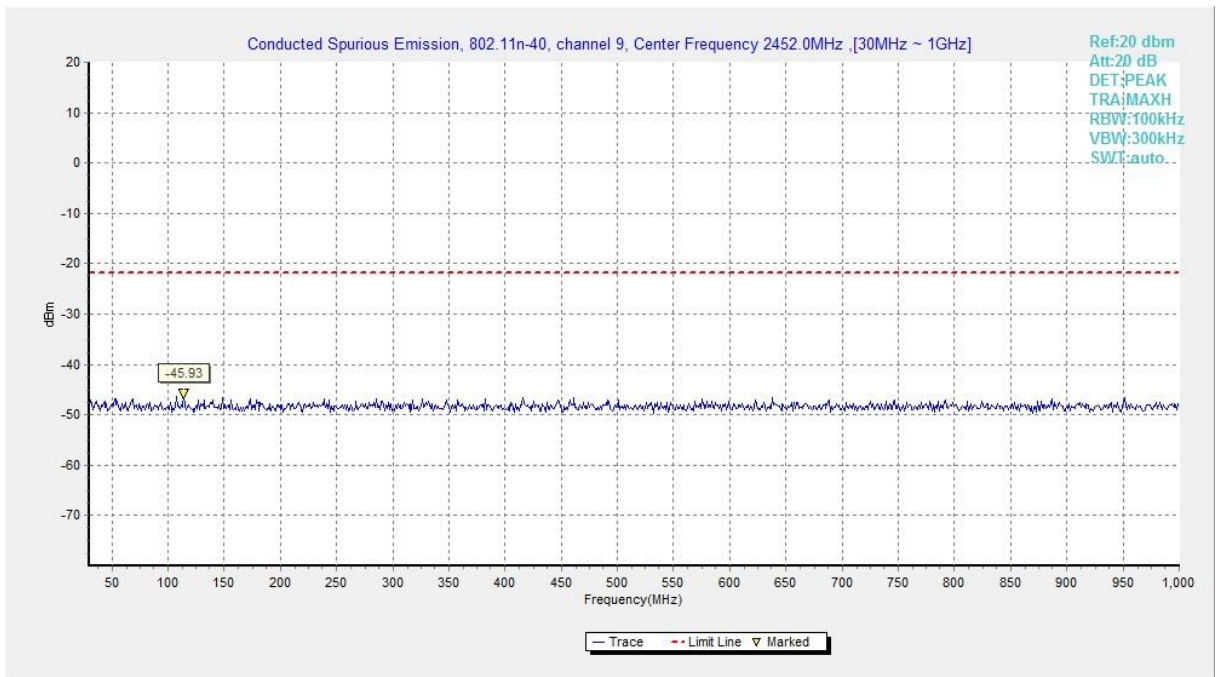


**Fig.A.6.1.88 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 20 GHz-26 GHz)**

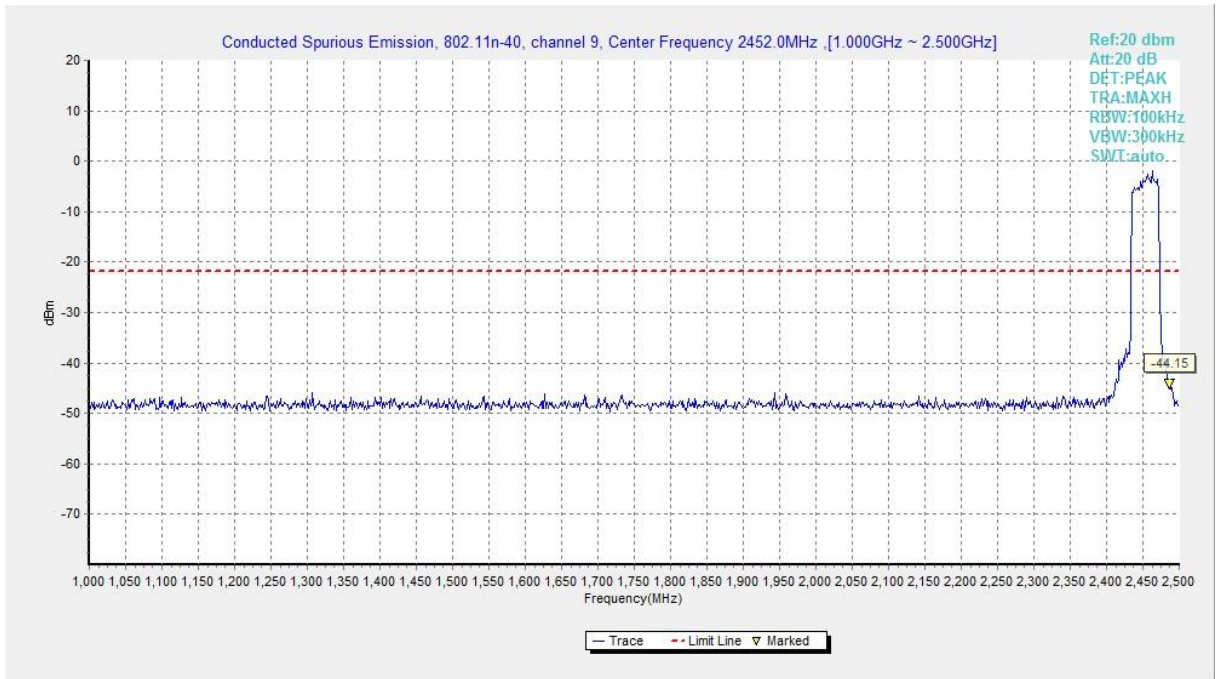




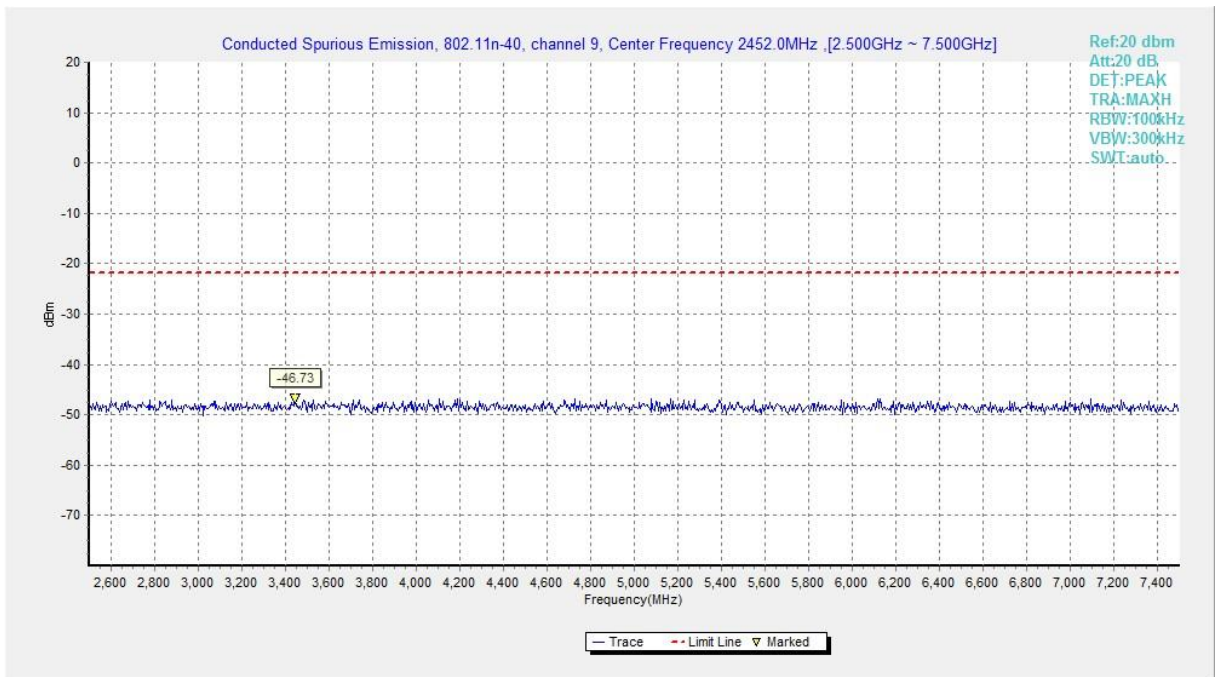
**Fig.A.6.1.89 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, Center Frequency)**



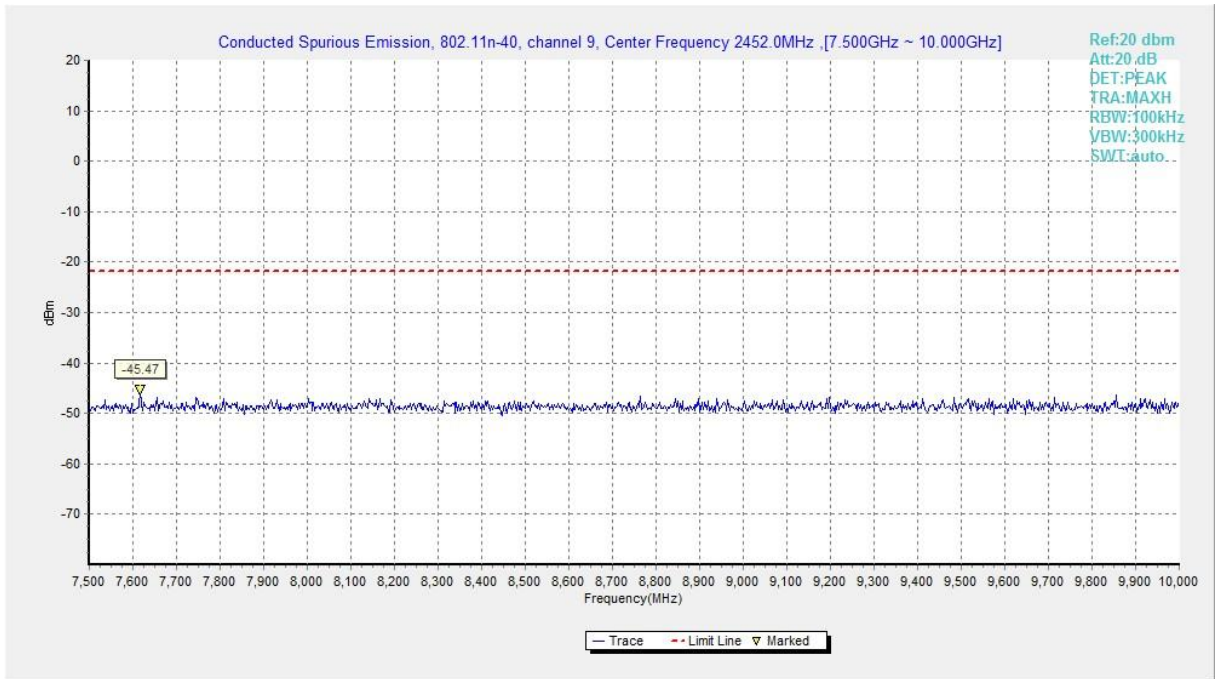
**Fig.A.6.1.90 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 30 MHz-1 GHz)**



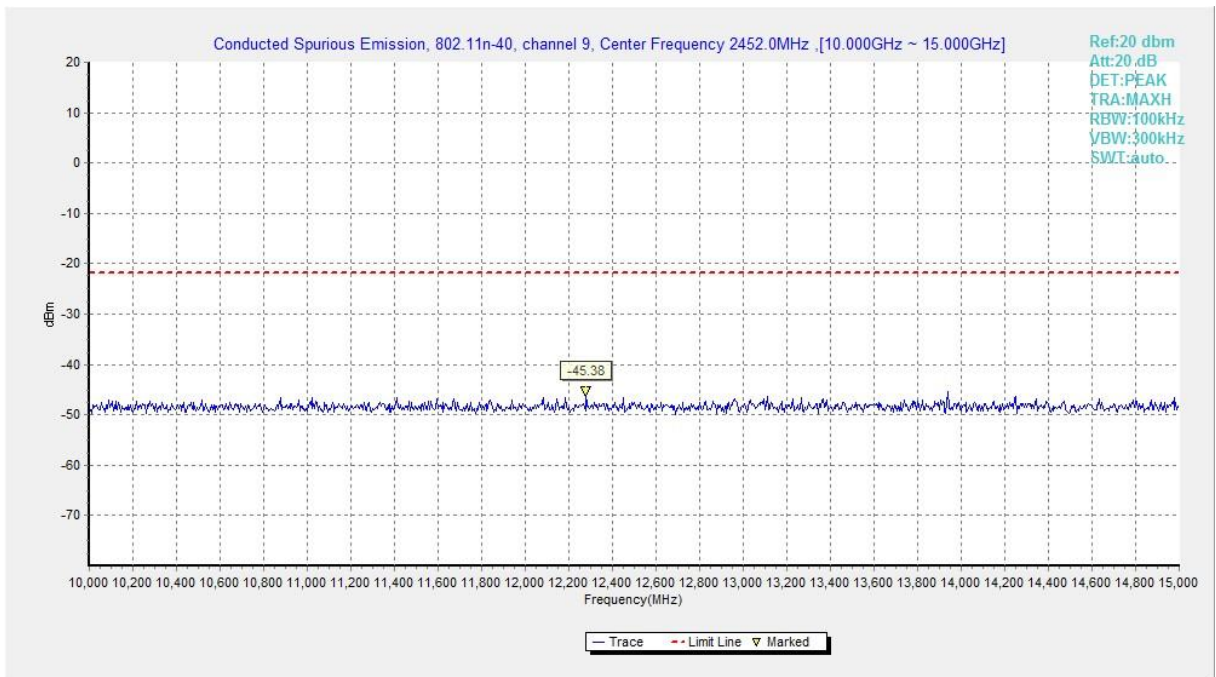
**Fig.A.6.1.91 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 1 GHz-2.5 GHz)**



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

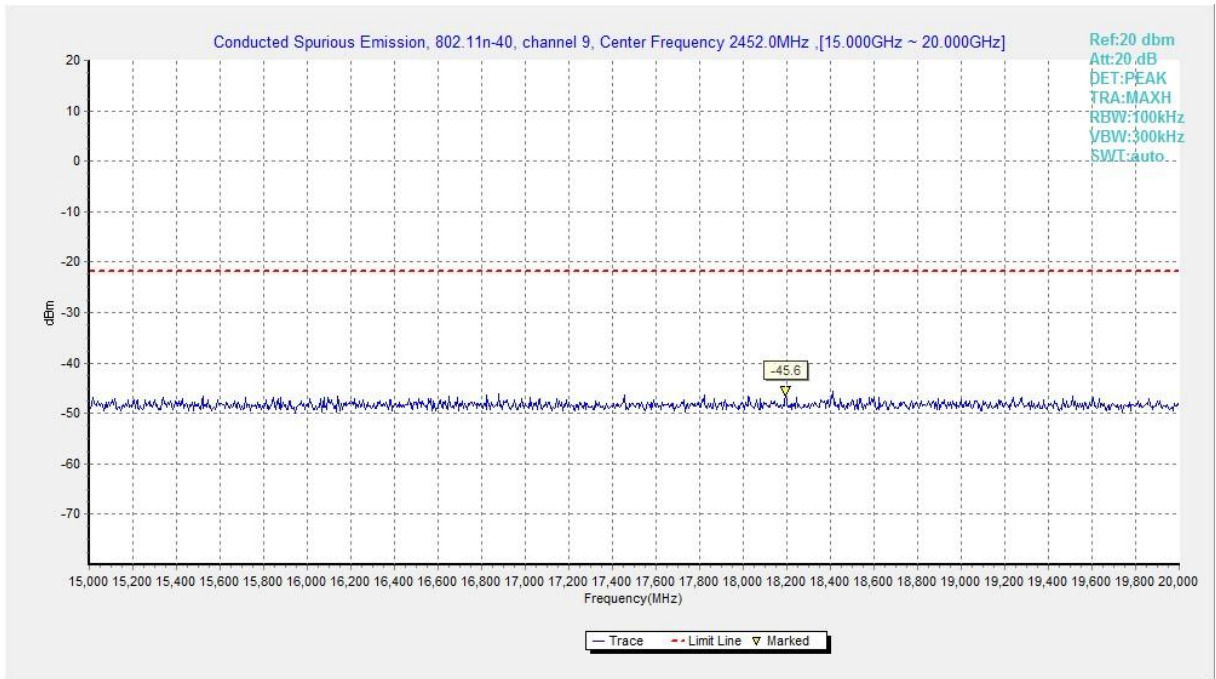


**Fig.A.6.1.93 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 7.5 GHz-10 GHz)**

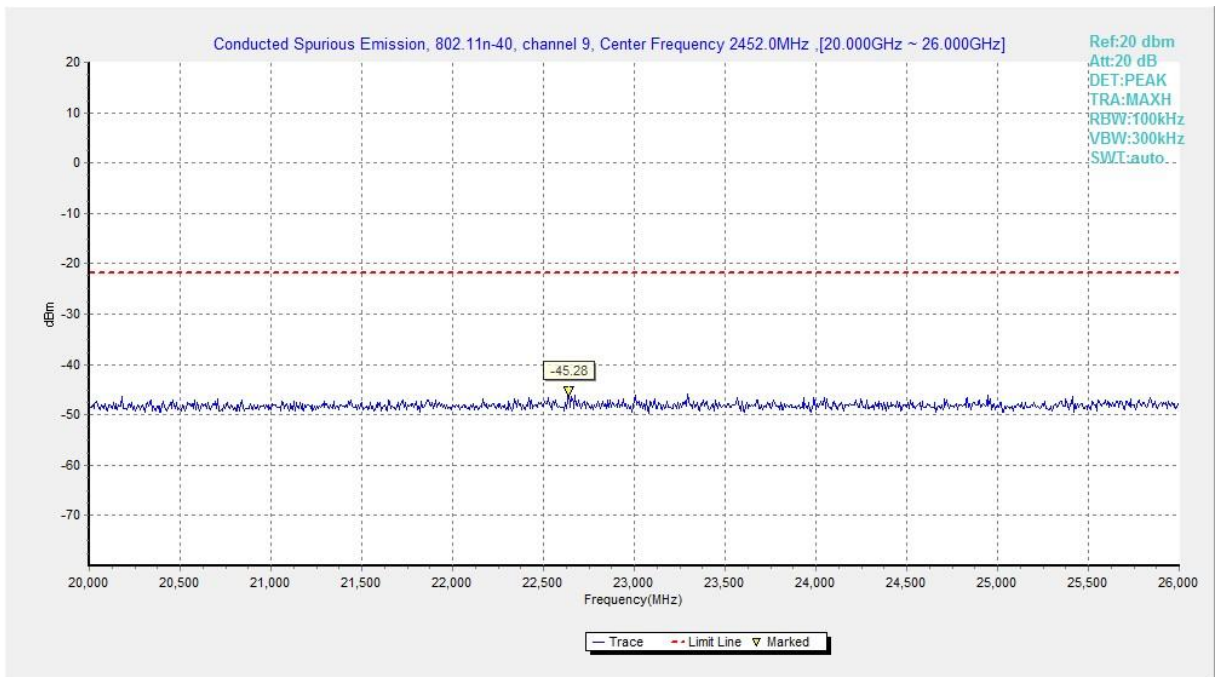


**Fig.A.6.1.94 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 10 GHz-15 GHz)**





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



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



**A.6.2 Transmitter Spurious Emission - Radiated**

**Method of Measurement: See ANSI C63.10-2013-clause 6.4 &6.5 & 6.6**

**Measurement Limit:**

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

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

**Limit in restricted band:**

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

Frequency (MHz)	Field strength(µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

**Test Condition**

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3/10 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

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

**EUT ID: EUT3**

**Measurement Results for Set.11:**

**802.11b mode**

Mode	Channel	Frequency Range	Test Results	Conclusion	
802.11b	Power	2.38GHz ~2.43GHz	Fig.A.6.2.1	P	
	1	1 GHz ~ 3 GHz	--	P	
		3 GHz ~ 18 GHz	--	P	
	6	9 kHz ~30 MHz	--	P	
		30 MHz ~1 GHz	--	P	
		1 GHz ~ 3 GHz	--	P	
		3 GHz ~ 18 GHz	--	P	
	6	18 GHz~ 26.5 GHz	--	P	
		Power	2.45GHz ~2.5GHz	Fig.A.6.2.2	P
		11	1 GHz ~ 3 GHz	--	P
	3 GHz ~ 18 GHz		--	P	

**802.11g mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power	2.38GHz ~2.43GHz	Fig.A.6.2.3	P
	1	1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P
	6	30 MHz ~1 GHz	--	P
		1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P
		18 GHz~ 26.5 GHz	--	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.4	P
	11	1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P

**802.11n-HT20 mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	Power	2.38GHz ~2.43GHz	Fig.A.6.2.5	P
	1	1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P
	6	30 MHz ~1 GHz	--	P
		1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P
		18 GHz~ 26.5 GHz	--	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.6	P
	11	1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P



**802.11n-HT40 mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	Power	2.38GHz ~2.43GHz	Fig.A.6.2.7	<b>P</b>
	3	1 GHz ~ 3 GHz	--	<b>P</b>
		3 GHz ~ 18 GHz	--	<b>P</b>
	6	30 MHz ~1 GHz	--	<b>P</b>
		1 GHz ~ 3 GHz	--	<b>P</b>
		3 GHz ~ 18 GHz	--	<b>P</b>
		18 GHz~ 26.5 GHz	--	<b>P</b>
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.8	<b>P</b>
	9	1 GHz ~ 3 GHz	--	<b>P</b>
		3 GHz ~ 18 GHz	--	<b>P</b>

**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 (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2390.000	41.9	-38.8	27.7	53.000	H
17998.500	41.5	-17.7	45.6	13.600	H
17997.000	41.4	-17.7	45.6	13.500	V
17994.000	41.3	-17.7	45.6	13.400	H
17991.000	41.2	-17.7	45.6	13.300	H
17989.500	41.2	-17.7	45.6	13.300	H

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
4873.500	43.6	-35.7	33.1	46.200	H
17998.500	41.3	-17.7	45.6	13.400	H
17994.000	41.3	-17.7	45.6	13.400	V
17992.500	41.2	-17.7	45.6	13.300	H
17995.500	41.2	-17.7	45.6	13.300	H
17997.000	41.1	-17.7	45.6	13.200	H

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2483.510	42.1	-38.9	27.7	53.300	H
17994.000	41.4	-17.7	45.6	13.500	H
18000.000	41.3	-45.6	44.5	42.366	V
17995.500	41.3	-17.7	45.6	13.400	H
17997.000	41.1	-17.7	45.6	13.200	H
17985.000	41.1	-17.7	45.6	13.200	H



**802.11b-Peak**

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2389.305	54.1	-38.8	27.7	65.200	H
17908.500	53.3	-18.5	45.6	26.200	H
18000.000	52.4	-45.6	44.5	53.466	V
17902.500	52.2	-18.5	45.6	25.100	H
17940.000	52.2	-17.7	45.6	24.300	H
17728.500	52.2	-18.9	45.6	25.500	H

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
17952.000	53.3	-17.7	45.6	25.400	H
17961.000	53.0	-17.7	45.6	25.100	H
17862.000	52.9	-18.5	45.6	25.800	V
17904.000	52.7	-18.5	45.6	25.600	H
17971.500	52.6	-17.7	45.6	24.700	H
17805.000	52.6	-18.5	45.6	25.500	H

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2489.275	54.9	-38.9	27.7	66.100	H
17986.500	52.8	-17.7	45.6	24.900	H
17997.000	52.8	-17.7	45.6	24.900	V
17964.000	52.7	-17.7	45.6	24.800	H
17989.500	52.5	-17.7	45.6	24.600	H
17995.500	52.5	-17.7	45.6	24.600	H





**802.11g - Average**

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2389.980	43.0	-38.8	27.7	54.100	H
17997.000	41.4	-17.7	45.6	13.500	H
17994.000	41.2	-17.7	45.6	13.300	V
17998.500	41.2	-17.7	45.6	13.300	H
17988.000	41.0	-17.7	45.6	13.100	H
18000.000	41.0	-45.6	44.5	42.066	H

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
17995.500	41.4	-17.7	45.6	13.500	H
17989.500	41.1	-17.7	45.6	13.200	H
17992.500	41.1	-17.7	45.6	13.200	V
17994.000	41.1	-17.7	45.6	13.200	H
17985.000	41.1	-17.7	45.6	13.200	H
18000.000	41.1	-45.6	44.5	42.166	H

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2483.500	42.1	-38.9	27.7	53.300	H
17997.000	41.2	-17.7	45.6	13.300	H
17995.500	41.1	-17.7	45.6	13.200	V
17970.000	41.1	-17.7	45.6	13.200	H
17991.000	41.0	-17.7	45.6	13.100	H
17977.500	40.9	-17.7	45.6	13.000	H



**802.11g - Peak**

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2389.545	55.3	-38.8	27.7	66.400	H
17965.500	53.0	-17.7	45.6	25.100	H
17895.000	52.8	-18.5	45.6	25.700	V
17874.000	52.7	-18.5	45.6	25.600	H
17992.500	51.9	-17.7	45.6	24.000	H
17998.500	51.9	-17.7	45.6	24.000	H

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
17815.500	53.0	-18.5	45.6	25.900	H
17947.500	52.6	-17.7	45.6	24.700	H
17986.500	52.5	-17.7	45.6	24.600	V
17908.500	52.5	-18.5	45.6	25.400	H
17976.000	52.4	-17.7	45.6	24.500	H
17920.500	52.4	-17.7	45.6	24.500	H

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2484.260	54.5	-38.9	27.7	65.700	H
17979.000	52.5	-17.7	45.6	24.600	H
17974.500	52.2	-17.7	45.6	24.300	V
17982.000	52.0	-17.7	45.6	24.100	H
17997.000	52.0	-17.7	45.6	24.100	H
17947.500	52.0	-17.7	45.6	24.100	H



802.11n-HT20-Average

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2389.995	43.1	-38.8	27.7	54.200	H
18000.000	41.2	-45.6	44.5	42.266	H
17998.500	41.2	-17.7	45.6	13.300	V
17986.500	41.2	-17.7	45.6	13.300	H
17989.500	41.1	-17.7	45.6	13.200	H
17994.000	41.1	-17.7	45.6	13.200	H

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
17998.500	41.3	-17.7	45.6	13.400	H
17994.000	41.2	-17.7	45.6	13.300	H
18000.000	41.2	-45.6	44.5	42.266	V
17991.000	41.1	-17.7	45.6	13.200	H
17985.000	41.0	-17.7	45.6	13.100	H
17992.500	41.0	-17.7	45.6	13.100	H

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2483.500	42.4	-38.9	27.7	53.600	H
17991.000	41.2	-17.7	45.6	13.300	H
17988.000	41.2	-17.7	45.6	13.300	V
17998.500	41.1	-17.7	45.6	13.200	H
17914.500	40.9	-17.7	45.6	13.000	H
17994.000	40.9	-17.7	45.6	13.000	H



**802.11n-HT20-Peak**

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2389.820	56.1	-38.8	27.7	67.200	H
17974.500	53.3	-17.7	45.6	25.400	H
17988.000	52.9	-17.7	45.6	25.000	V
17836.500	52.8	-18.5	45.6	25.700	H
17932.500	52.4	-17.7	45.6	24.500	H
18000.000	52.3	-45.6	44.5	53.366	H

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
17991.000	53.3	-17.7	45.6	25.400	H
17947.500	53.3	-17.7	45.6	25.400	H
17994.000	53.3	-17.7	45.6	25.400	V
17869.500	53.1	-18.5	45.6	26.000	H
17889.000	52.7	-18.5	45.6	25.600	H
17985.000	52.7	-17.7	45.6	24.800	H

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2483.795	55.0	-38.9	27.7	66.200	H
17988.000	53.0	-17.7	45.6	25.100	H
17997.000	52.4	-17.7	45.6	24.500	V
17991.000	52.3	-17.7	45.6	24.400	H
17881.500	52.3	-18.5	45.6	25.200	H
17830.500	52.1	-18.5	45.6	25.000	H





**802.11n-HT40-Average**

Ch3

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2390.000	42.4	-38.8	27.7	53.500	H
17994.000	41.4	-17.7	45.6	13.500	H
17991.000	41.3	-17.7	45.6	13.400	V
17998.500	41.3	-17.7	45.6	13.400	H
18000.000	41.3	-45.6	44.5	42.366	H
17997.000	41.2	-17.7	45.6	13.300	H

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
17992.500	41.3	-17.7	45.6	13.400	H
17997.000	41.2	-17.7	45.6	13.300	H
17995.500	41.2	-17.7	45.6	13.300	V
17982.000	41.1	-17.7	45.6	13.200	H
17991.000	41.1	-17.7	45.6	13.200	H
17998.500	41.1	-17.7	45.6	13.200	H

Ch9

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
2483.500	41.7	-38.9	27.7	52.900	H
17995.500	41.3	-17.7	45.6	13.400	H
17992.500	41.2	-17.7	45.6	13.300	V
17998.500	41.1	-17.7	45.6	13.200	H
17983.500	41.1	-17.7	45.6	13.200	H
18000.000	41.1	-45.6	44.5	42.166	H



**802.11n-HT40-Peak**

Ch3

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
2389.665	57.9	-38.8	27.7	69.000	H
17998.500	52.9	-17.7	45.6	25.000	H
17887.500	52.9	-18.5	45.6	25.800	V
17995.500	52.6	-17.7	45.6	24.700	H
17947.500	52.5	-17.7	45.6	24.600	H
17967.000	52.5	-17.7	45.6	24.600	H

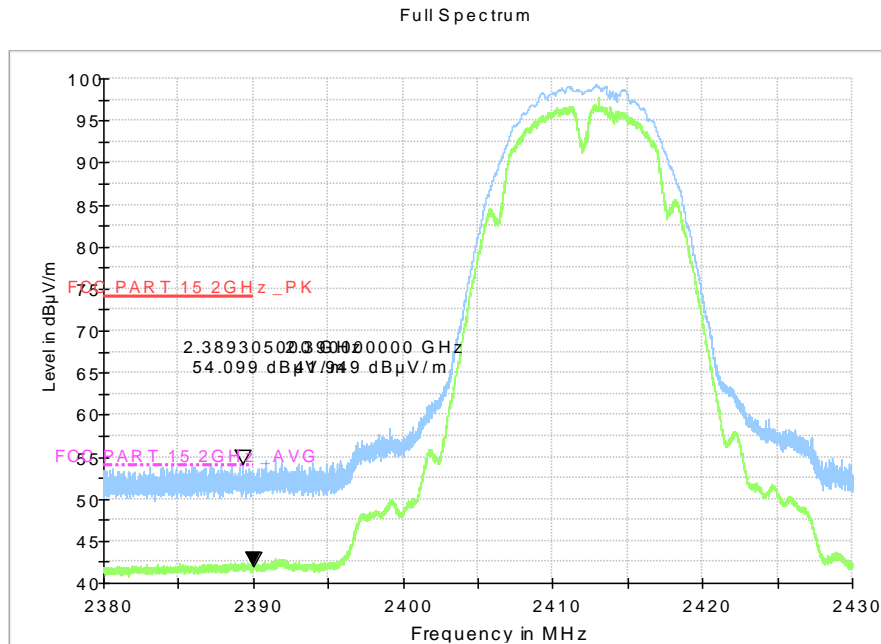
Ch6

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17985.000	52.4	-17.7	45.6	24.500	H
17991.000	52.4	-17.7	45.6	24.500	H
17920.500	52.4	-17.7	45.6	24.500	V
17917.500	52.3	-17.7	45.6	24.400	H
17953.500	52.2	-17.7	45.6	24.300	H
17860.500	52.2	-18.5	45.6	25.100	H

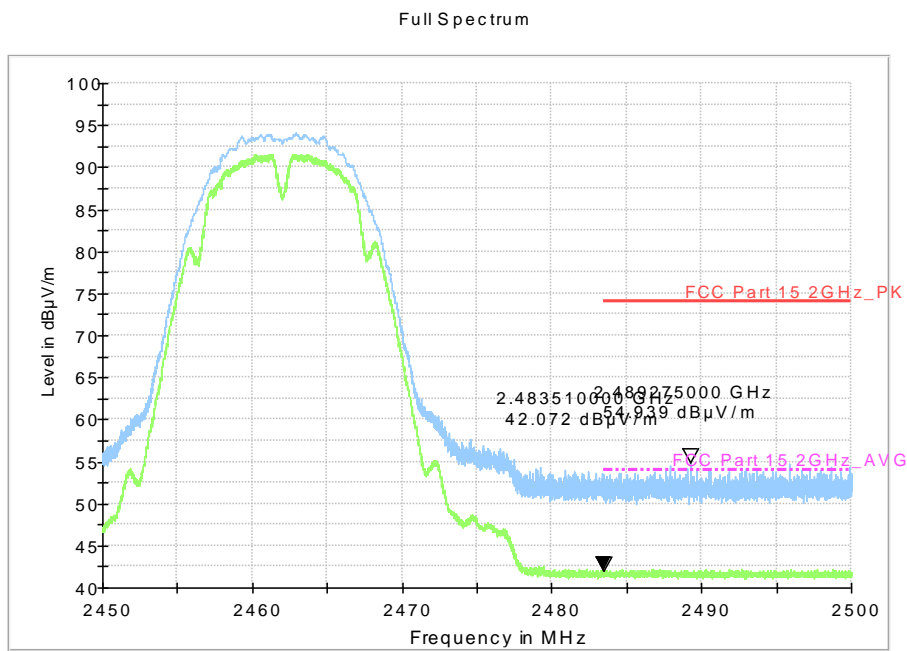
Ch9

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
2483.600	57.2	-38.9	27.7	68.400	H
17956.500	52.7	-17.7	45.6	24.800	H
17893.500	52.4	-18.5	45.6	25.300	V
17911.500	52.3	-18.5	45.6	25.200	H
17986.500	52.3	-17.7	45.6	24.400	H
17998.500	52.2	-17.7	45.6	24.300	H

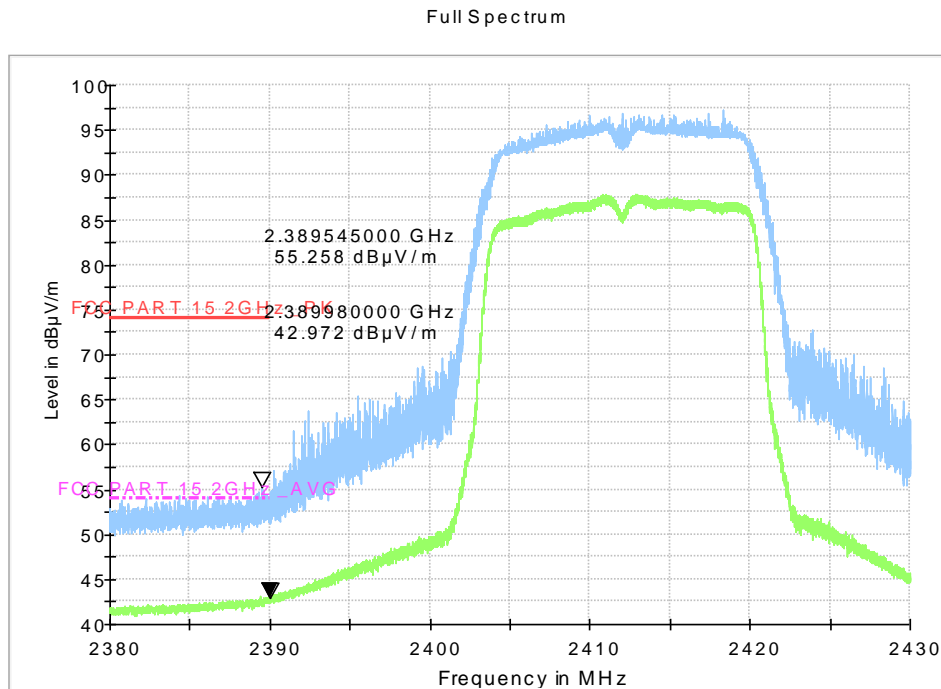
Test graphs as below:



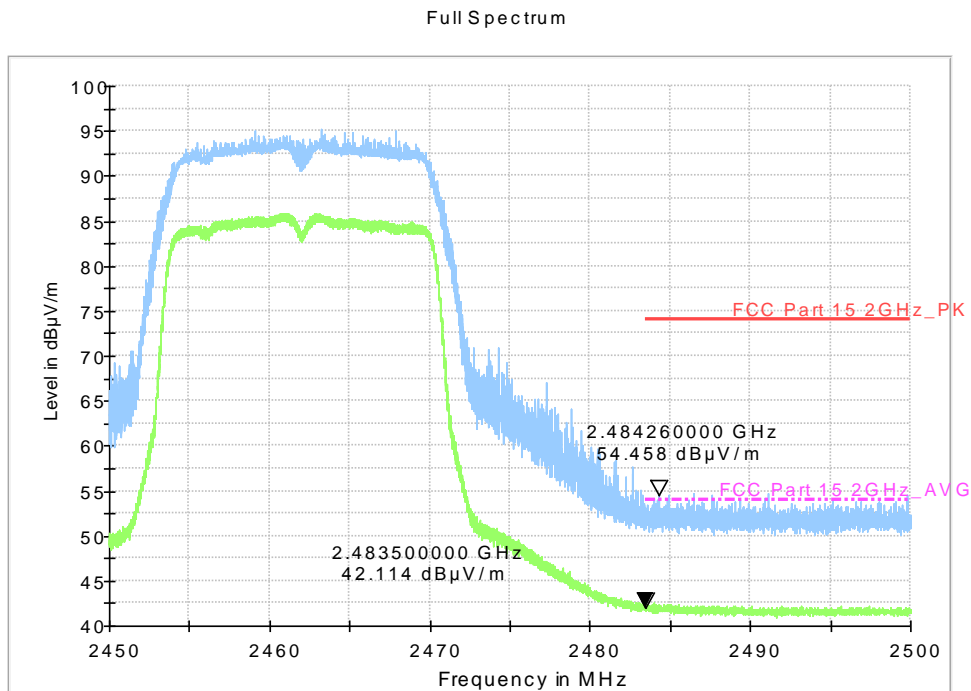
**Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.38 GHz – 2.43GHz**



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

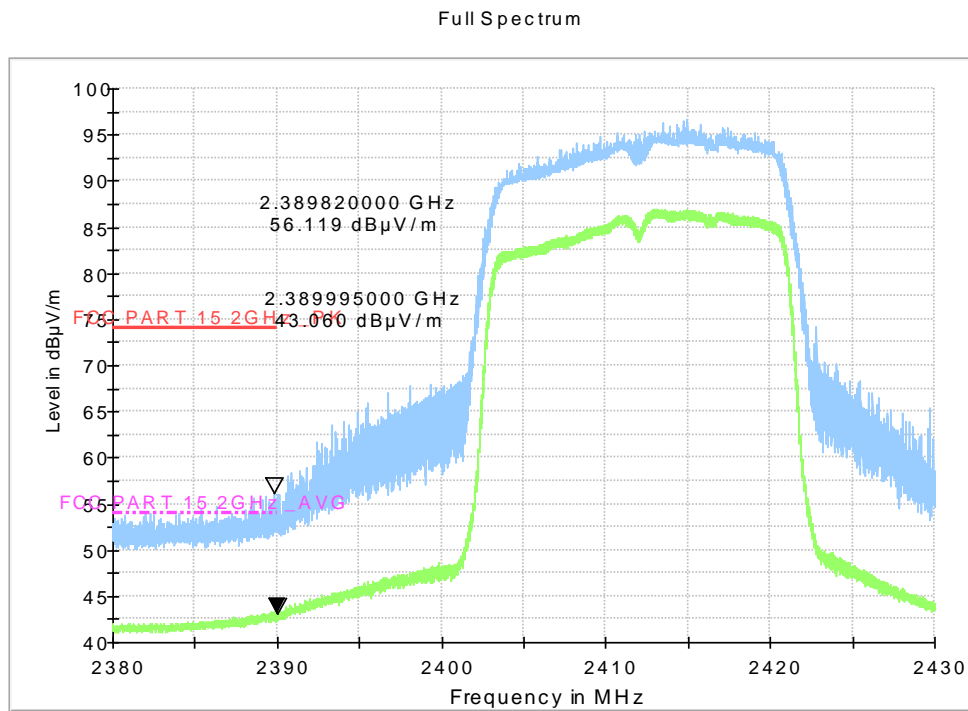


**Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.38 GHz - 2.43GHz**

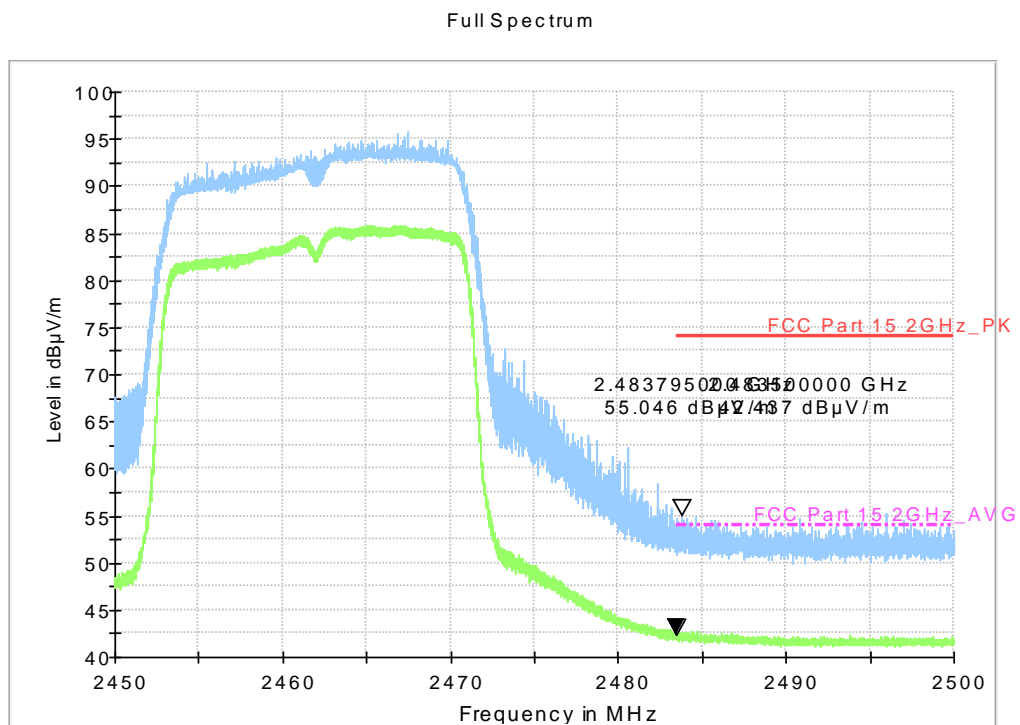


**Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz**

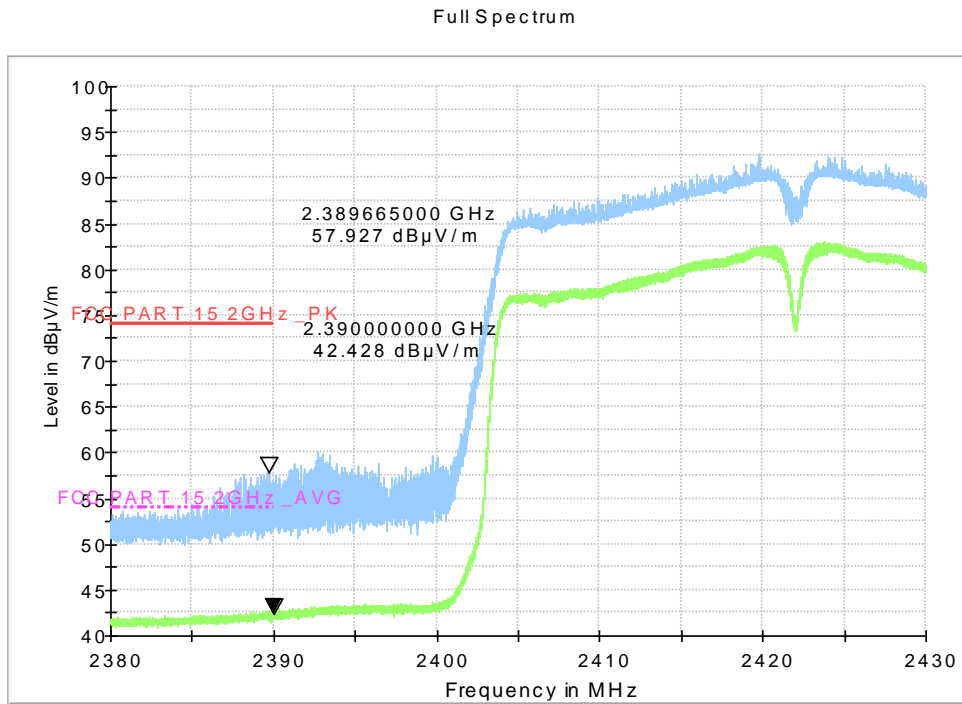




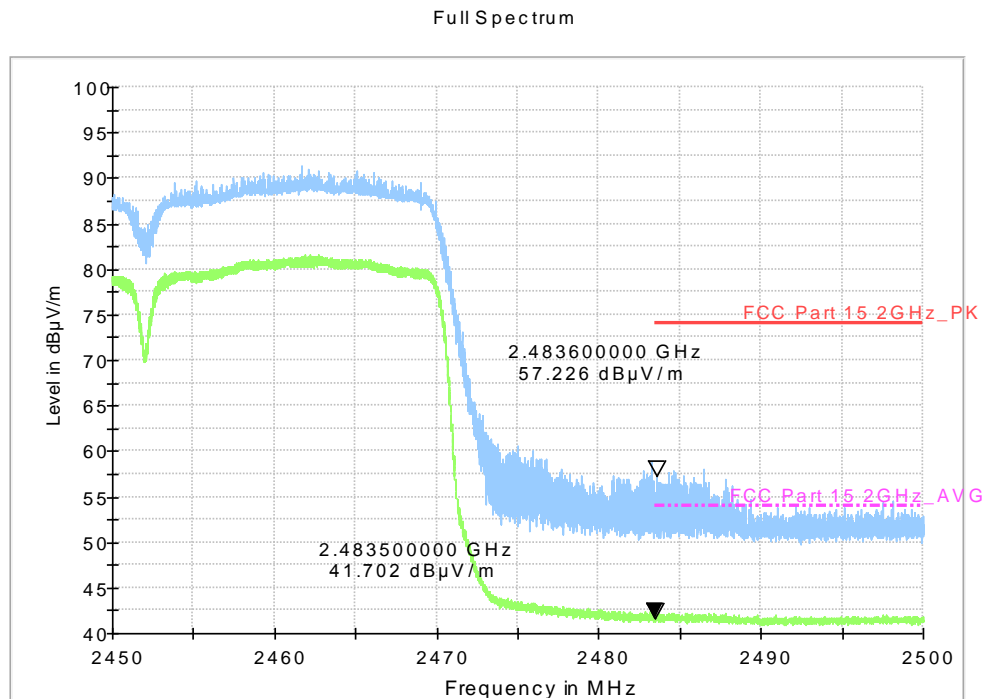
**Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz**



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



**Fig.A.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.43GHz**



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

## **A.7. AC Power-line Conducted Emission**

### **Method of Measurement: See ANSI C63.10-2013-clause 6.2**

- 1 The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.
- 2 If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.
- 3 The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.
- 4 If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.
- 5 If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.<sup>36</sup> 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:**

<b>Voltage (V)</b>	<b>Frequency (Hz)</b>
120	60

**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.A.7.1 Fig.A.7.2	Fig.A.7.3	<b>P</b>
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 $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.A.7.1 Fig.A.7.2	Fig.A.7.3	<b>P</b>
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: Set.12

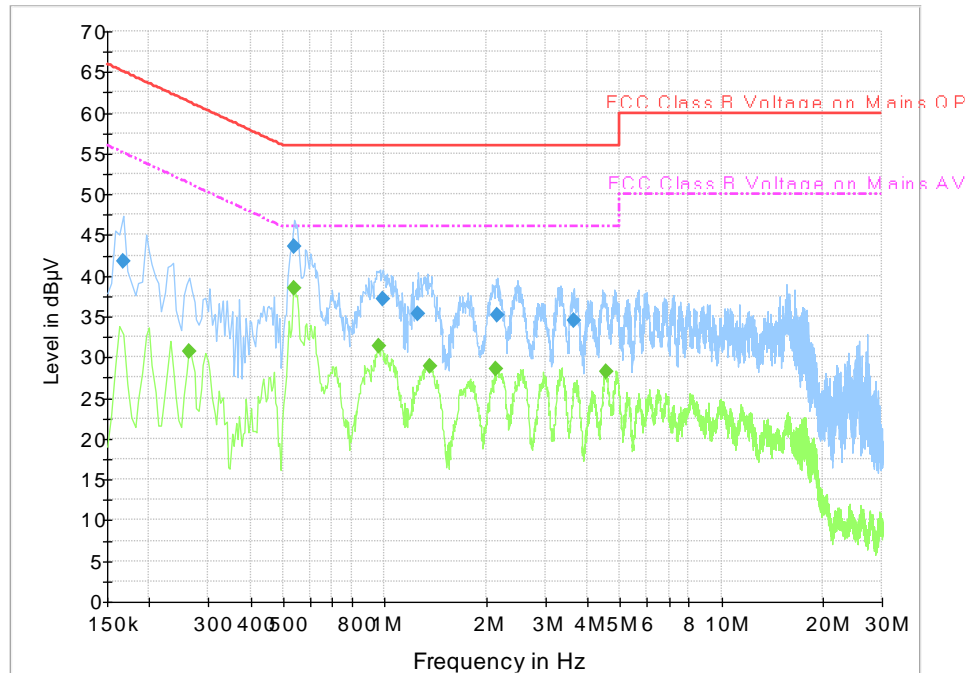


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

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

**Final Result 1**

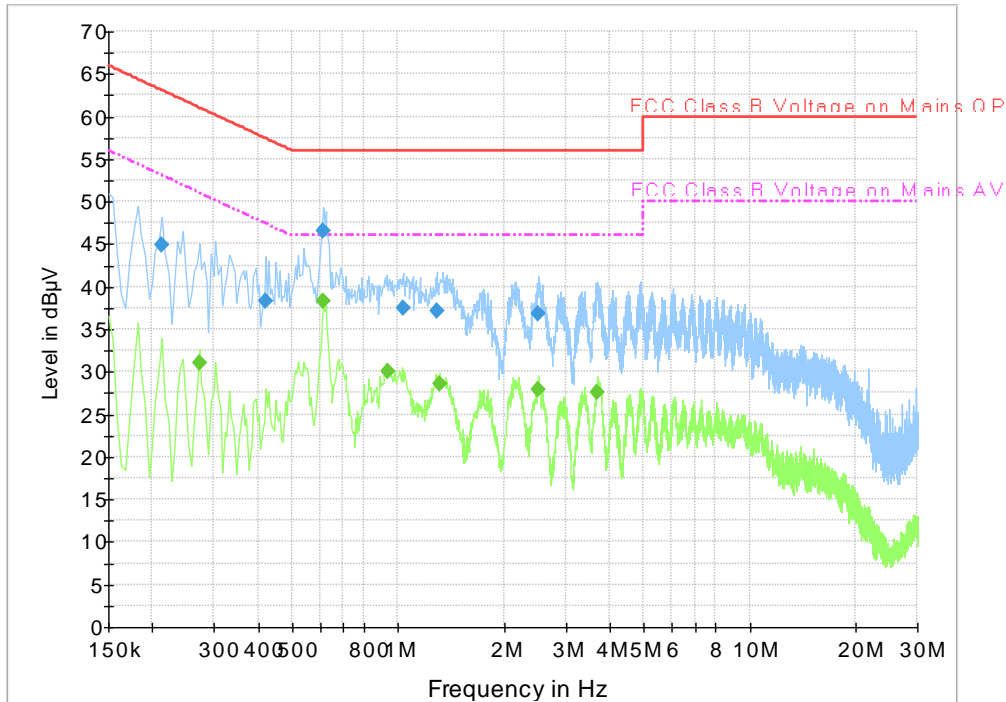
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.168000	41.7	2000.0	9.000	On	L1	19.8	23.4	65.1	
0.537000	43.6	2000.0	9.000	On	L1	19.9	12.4	56.0	
0.991500	37.2	2000.0	9.000	On	L1	19.6	18.8	56.0	
1.261500	35.4	2000.0	9.000	On	L1	19.6	20.6	56.0	
2.170500	35.2	2000.0	9.000	On	L1	19.7	20.8	56.0	
3.642000	34.5	2000.0	9.000	On	L1	19.6	21.5	56.0	

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.262500	30.7	2000.0	9.000	On	N	19.8	20.6	51.4	
0.537000	38.5	2000.0	9.000	On	N	19.9	7.5	46.0	
0.960000	31.3	2000.0	9.000	On	N	19.7	14.7	46.0	
1.369500	28.8	2000.0	9.000	On	N	19.6	17.2	46.0	
2.143500	28.6	2000.0	9.000	On	N	19.6	17.4	46.0	
4.542000	28.2	2000.0	9.000	On	N	19.7	17.8	46.0	



Traffic: Set.13



**Fig.A.7.2 AC Powerline Conducted Emission-802.11b**

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

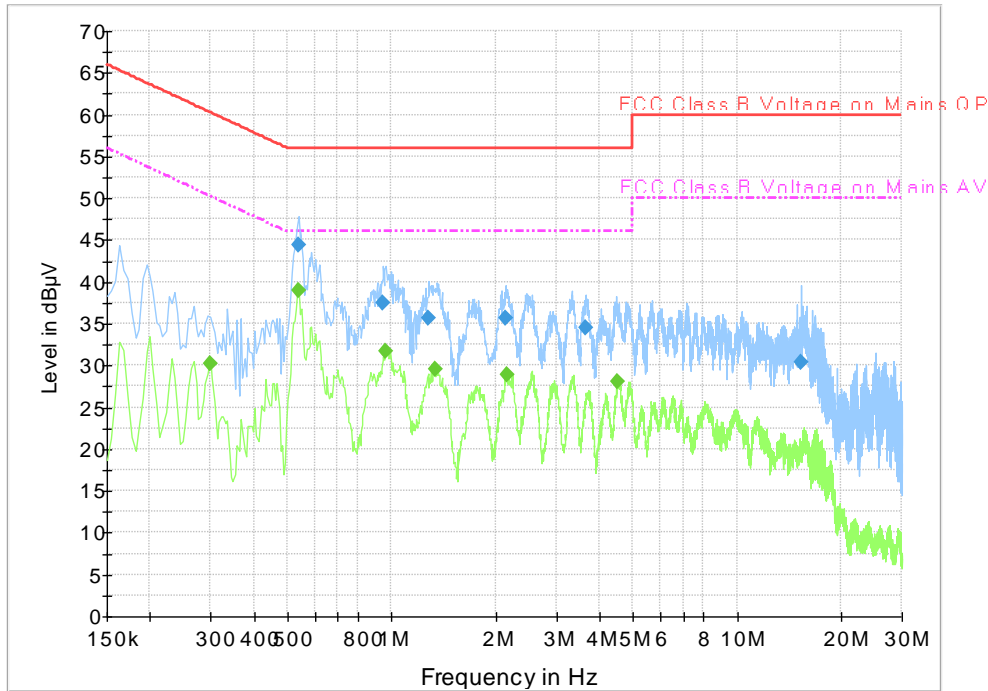
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.213000	45.0	2000.0	9.000	On	L1	19.8	18.1	63.1	
0.420000	38.3	2000.0	9.000	On	L1	19.9	19.2	57.4	
0.613500	46.5	2000.0	9.000	On	L1	19.8	9.5	56.0	
1.032000	37.5	2000.0	9.000	On	N	19.7	18.5	56.0	
1.288500	37.2	2000.0	9.000	On	L1	19.6	18.8	56.0	
2.512500	36.8	2000.0	9.000	On	L1	19.7	19.2	56.0	

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.271500	31.1	2000.0	9.000	On	L1	19.8	20.0	51.1	
0.613500	38.2	2000.0	9.000	On	L1	19.8	7.8	46.0	
0.937500	30.0	2000.0	9.000	On	L1	19.6	16.0	46.0	
1.315500	28.5	2000.0	9.000	On	L1	19.6	17.5	46.0	
2.512500	28.0	2000.0	9.000	On	L1	19.7	18.0	46.0	
3.700500	27.6	2000.0	9.000	On	L1	19.6	18.4	46.0	

Idle: Set.12



**Fig.A.7.3 AC Powerline Conducted Emission-Idle**

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

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.537000	44.4	2000.0	9.000	On	N	19.9	11.6	56.0	
0.946500	37.4	2000.0	9.000	On	L1	19.6	18.6	56.0	
1.279500	35.7	2000.0	9.000	On	L1	19.6	20.3	56.0	
2.134500	35.7	2000.0	9.000	On	L1	19.7	20.3	56.0	
3.655500	34.5	2000.0	9.000	On	L1	19.6	21.5	56.0	
15.333000	30.4	2000.0	9.000	On	L1	19.9	29.6	60.0	

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.298500	30.3	2000.0	9.000	On	N	19.8	20.0	50.3	
0.537000	38.9	2000.0	9.000	On	N	19.9	7.1	46.0	
0.960000	31.7	2000.0	9.000	On	N	19.7	14.3	46.0	
1.342500	29.6	2000.0	9.000	On	N	19.6	16.4	46.0	
2.152500	29.0	2000.0	9.000	On	N	19.6	17.0	46.0	
4.501500	28.0	2000.0	9.000	On	N	19.7	18.0	46.0	

**ANNEX B: Accreditation Certificate**

United States Department of Commerce  
National Institute of Standards and Technology

**NVLAP**<sup>®</sup>

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**Certificate of Accreditation to ISO/IEC 17025:2005**

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NVLAP LAB CODE: 600118-0

**Telecommunication Technology Labs, CAICT**  
Beijing  
China


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

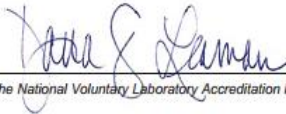
**Electromagnetic Compatibility & Telecommunications**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
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).*

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2017-08-22 through 2018-09-30  
*Effective Dates*



  
*For the National Voluntary Laboratory Accreditation Program*

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