

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

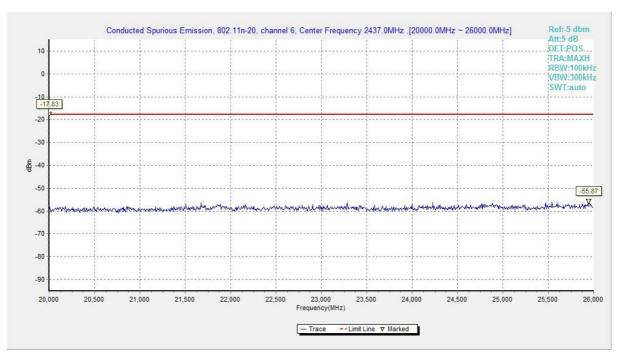


Fig.A.6.1.64 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 20 GHz-26 GHz)



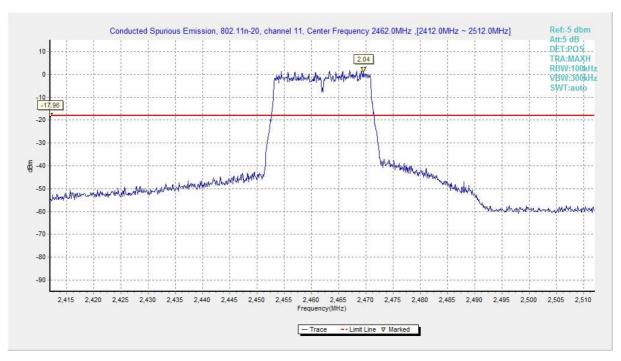


Fig.A.6.1.65 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)

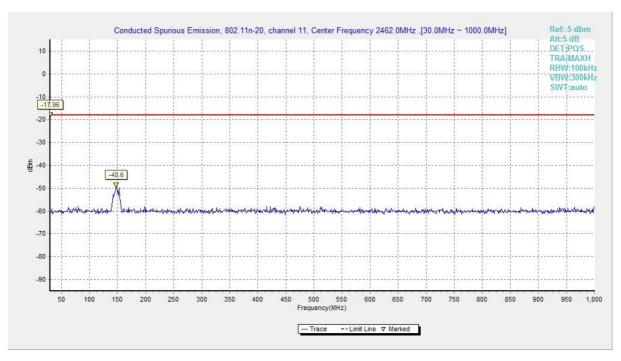


Fig.A.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)



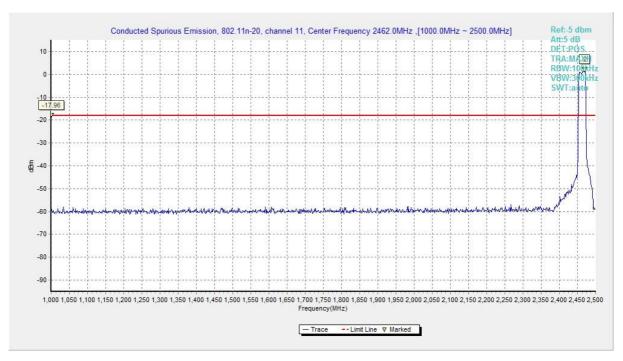


Fig.A.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)

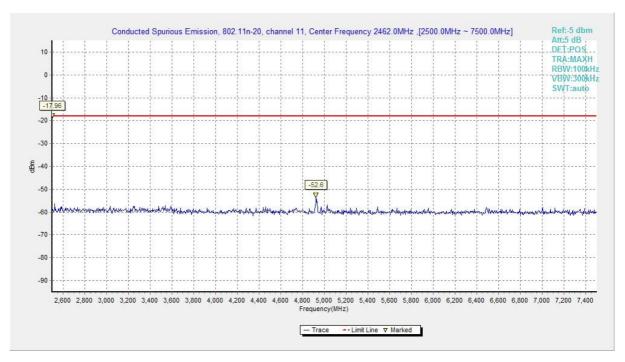


Fig.A.6.1.68 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)



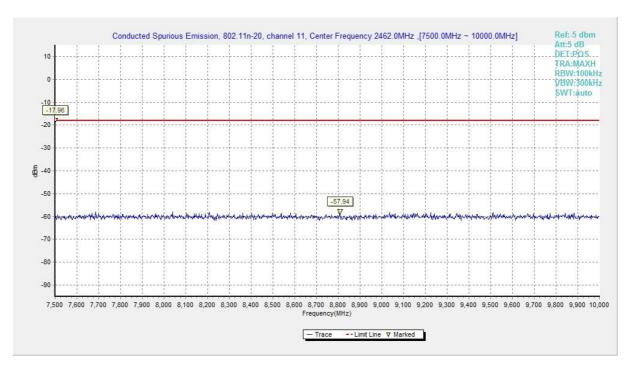


Fig.A.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)

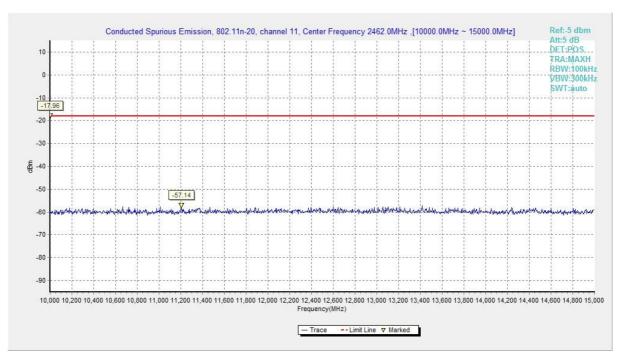


Fig.A.6.1.70 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 10 GHz-15 GHz)



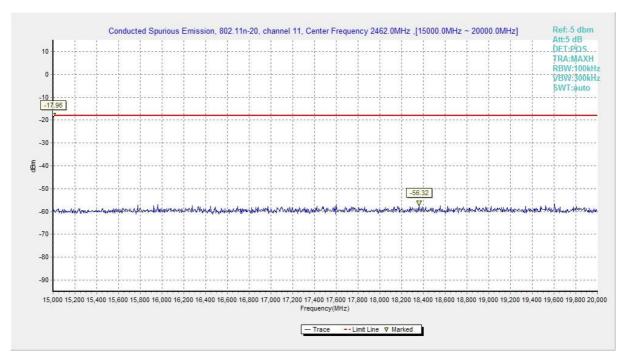


Fig.A.6.1.71 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 15 GHz-20 GHz)

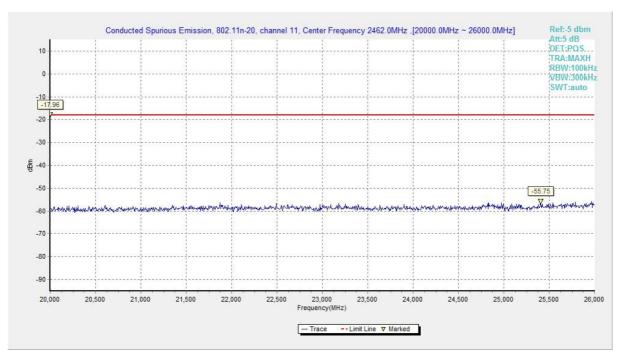


Fig.A.6.1.72 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 20 GHz-26 GHz)



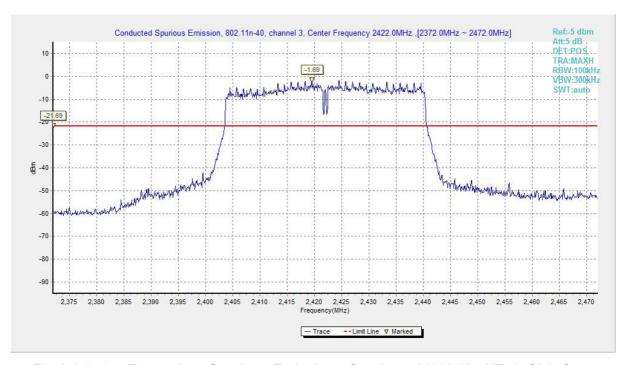


Fig.A.6.1.73 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, Center Frequency)

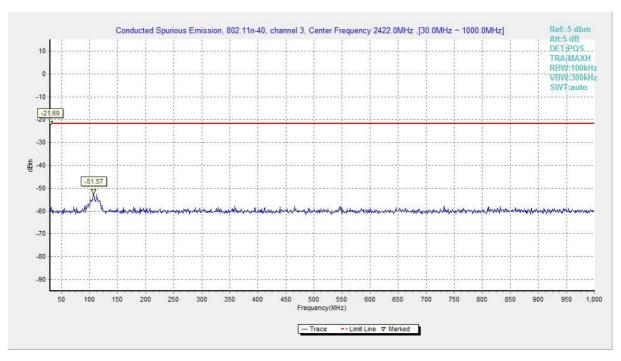


Fig.A.6.1.74 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 30 MHz-1 GHz)



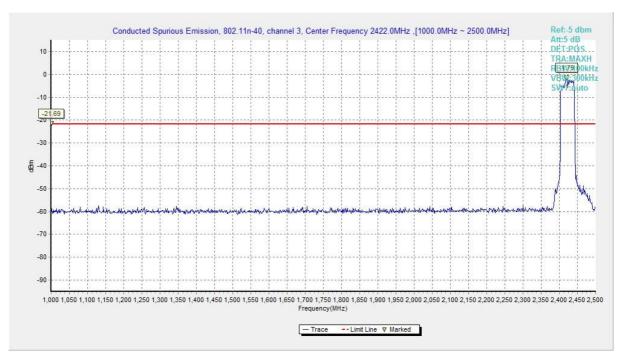


Fig.A.6.1.75 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 1 GHz-2.5 GHz)

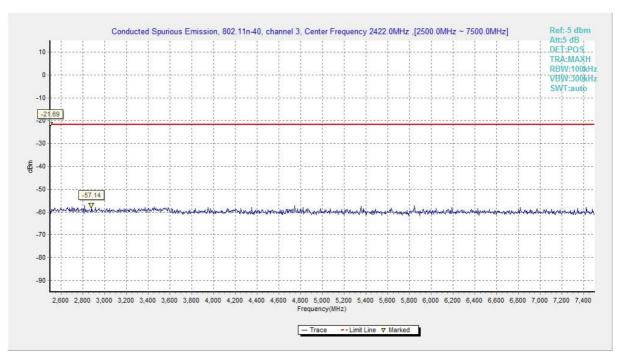


Fig.A.6.1.76 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 2.5 GHz-7.5 GHz)



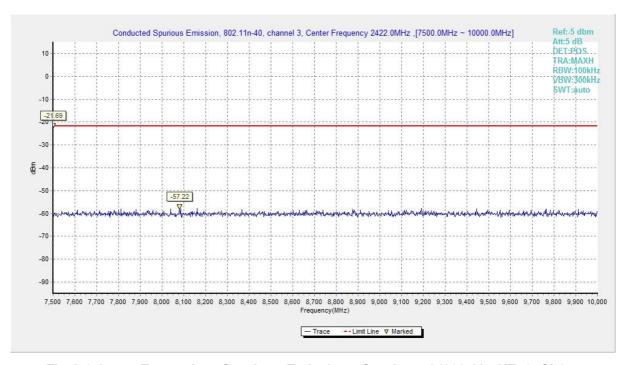


Fig.A.6.1.77 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 7.5 GHz-10 GHz)

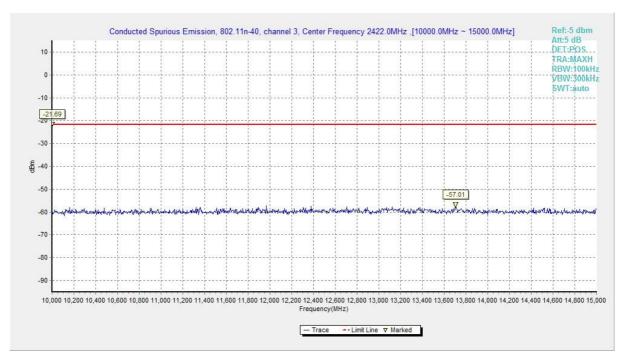


Fig.A.6.1.78 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 10 GHz-15 GHz)



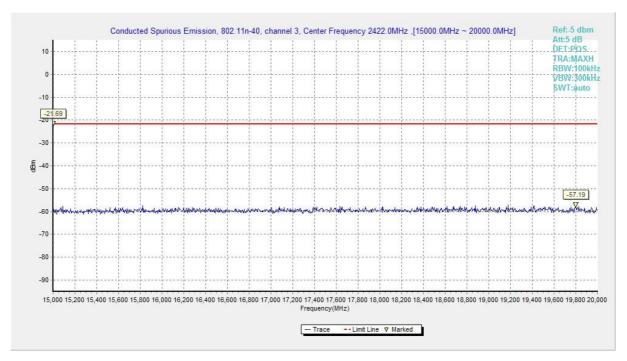


Fig.A.6.1.79 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 15 GHz-20 GHz)

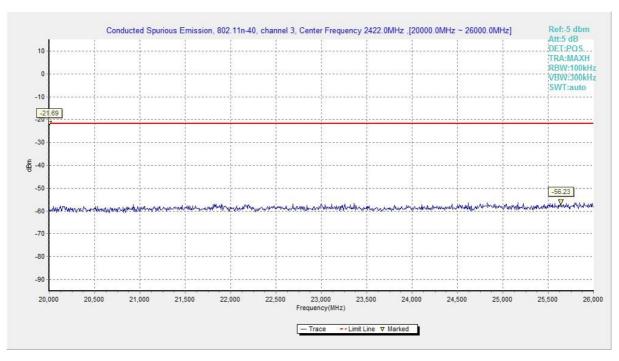


Fig.A.6.1.80 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 20 GHz-26 GHz)



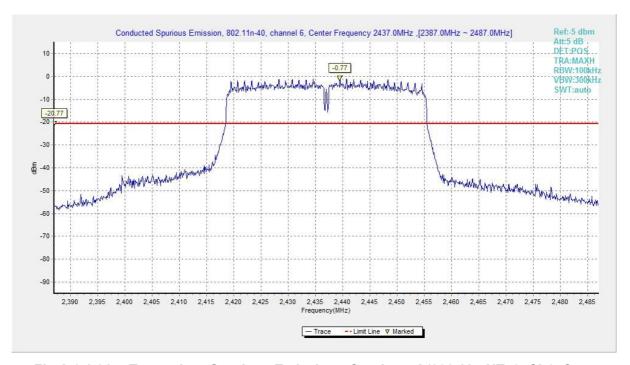


Fig.A.6.1.81 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, Center Frequency)

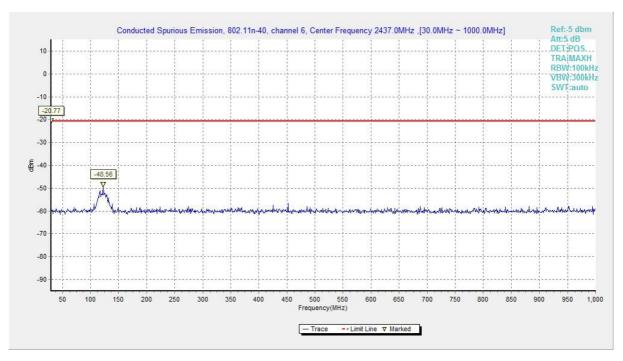


Fig.A.6.1.82 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 30 MHz-1 GHz)



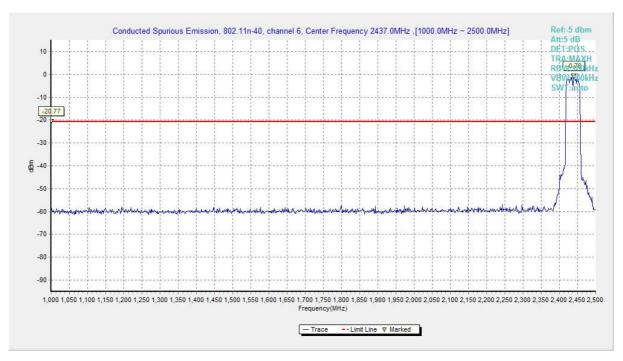


Fig.A.6.1.83 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 1 GHz-2.5 GHz)

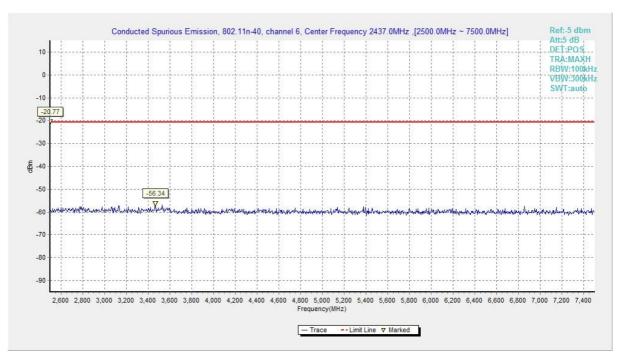


Fig.A.6.1.84 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 2.5 GHz-7.5 GHz)



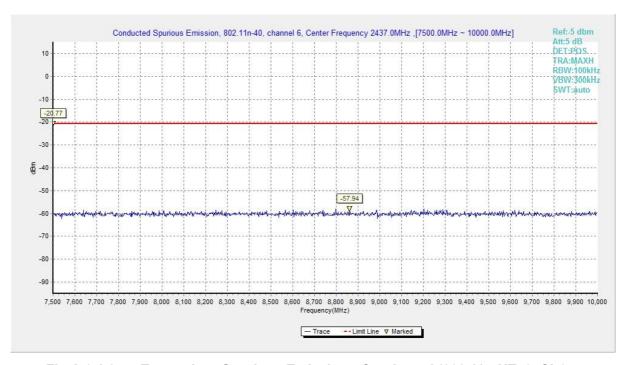


Fig.A.6.1.85 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 7.5 GHz-10 GHz)

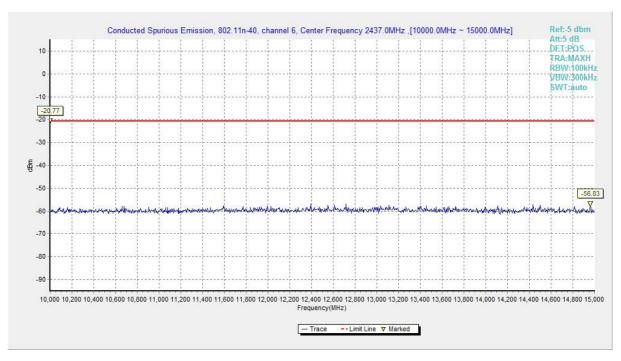


Fig.A.6.1.86 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 10 GHz-15 GHz)



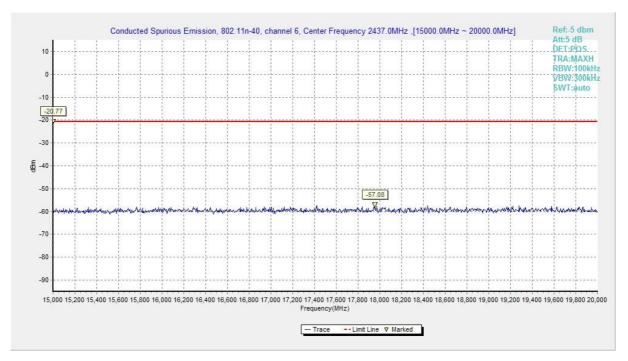


Fig.A.6.1.87 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 15 GHz-20 GHz)

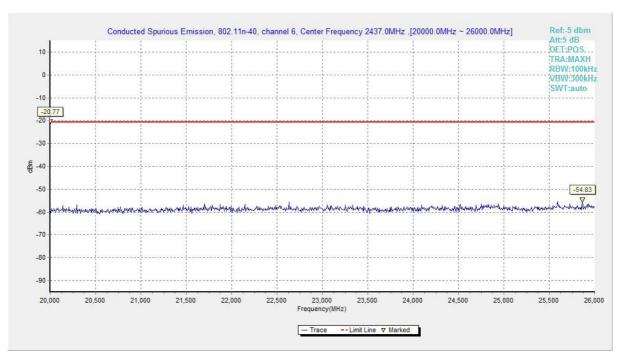


Fig.A.6.1.88 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 20 GHz-26 GHz)



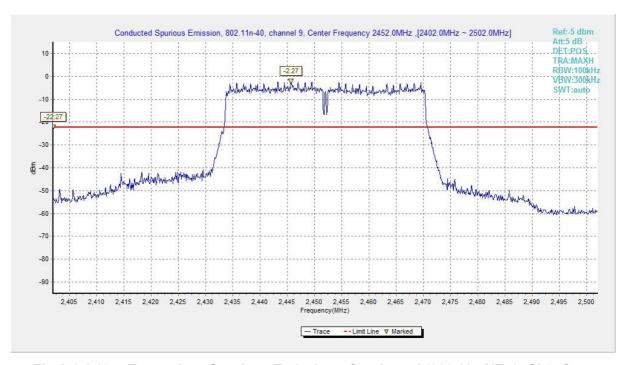


Fig.A.6.1.89 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, Center Frequency)

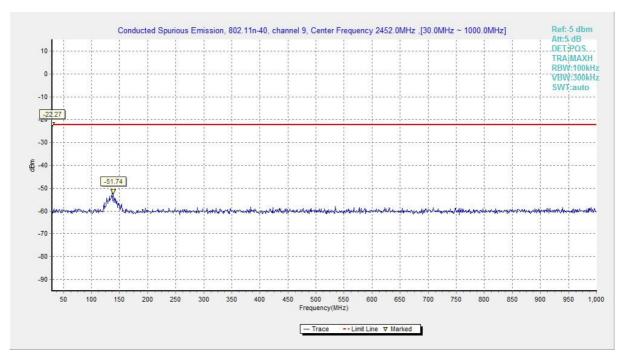


Fig.A.6.1.90 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 30 MHz-1 GHz)



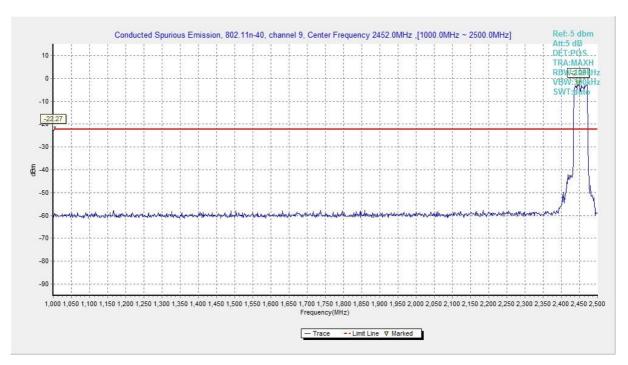


Fig.A.6.1.91 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 1 GHz-2.5 GHz)

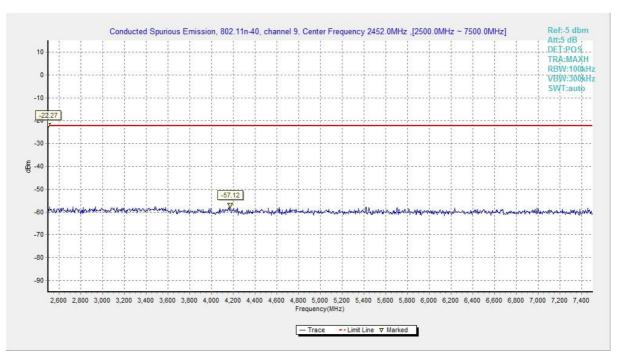


Fig.A.6.1.92 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 2.5 GHz-7.5 GHz)



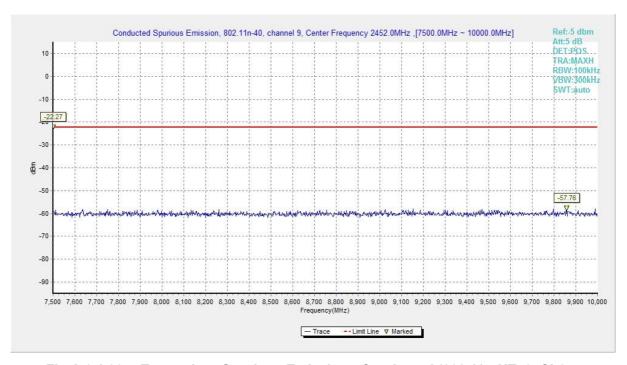


Fig.A.6.1.93 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 7.5 GHz-10 GHz)

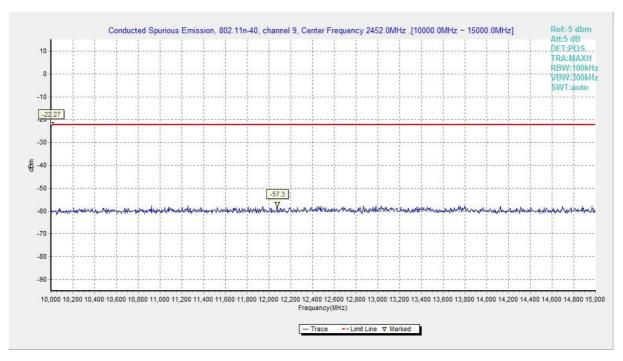


Fig.A.6.1.94 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 10 GHz-15 GHz)



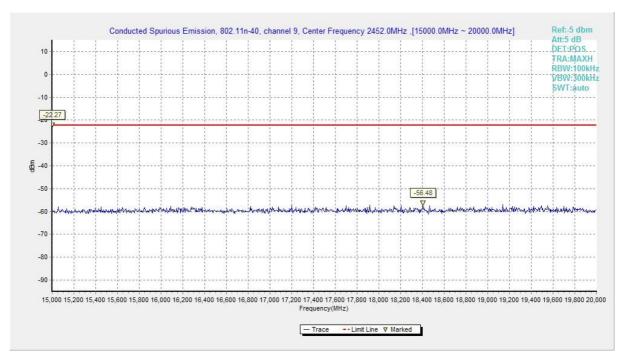


Fig.A.6.1.95 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 15 GHz-20 GHz)

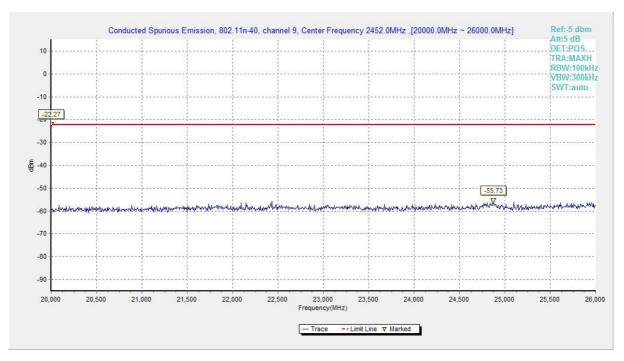


Fig.A.6.1.96 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 20 GHz-26 GHz)



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

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

Test Condition

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

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

EUT ID: EUT1



Measurement Results:

802.11b mode

Mode	Channel	Frequency Range	Conclusion	
	Power	2.38GHz ~2.45GHz	Fig.A.6.2.1	Р
	1	1 GHz ~ 3 GHz	Fig.A.6.2.2	Р
	ı	3 GHz ~ 18 GHz	Fig.A.6.2.3	Р
		9 kHz ~30 MHz	Fig.A.6.2.4	Р
	802.11b 6 Power	30 MHz ~1 GHz	Fig.A.6.2.5	Р
802.11b		1 GHz ~ 3 GHz	Fig.A.6.2.6	Р
		3 GHz ~ 18 GHz	Fig.A.6.2.7	Р
		18 GHz~ 26.5 GHz	Fig.A.6.2.8	Р
		2.45GHz ~2.5GHz	Fig.A.6.2.9	Р
	11	1 GHz ~ 3 GHz	Fig.A.6.2.10	Р
	11	3 GHz ~ 18 GHz	Fig.A.6.2.11	Р

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
	Power	2.38GHz ~2.43GHz	Fig.A.6.2.12	Р
	4	1 GHz ~ 3 GHz	Fig.A.6.2.13	Р
	I	3 GHz ~ 18 GHz	Fig.A.6.2.14	Р
		30 MHz ~1 GHz	Fig.A.6.2.15	Р
802.11g	802.11g 6	1 GHz ~ 3 GHz	Fig.A.6.2.16	Р
		3 GHz ~ 18 GHz	Fig.A.6.2.17	Р
		18 GHz~ 26.5 GHz	Fig.A.6.2.18	Р
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.19	Р
	11	1 GHz ~ 3 GHz	Fig.A.6.2.20	Р
11	11	3 GHz ~ 18 GHz	Fig.A.6.2.21	Р

802.11n-HT20 mode

Mode	Channel	Frequency Range	Conclusion	
	Power	2.38GHz ~2.45GHz	Fig.A.6.2.22	Р
	1	1 GHz ~ 3 GHz	Fig.A.6.2.23	Р
	'	3 GHz ~ 18 GHz	Fig.A.6.2.24	Р
		30 MHz ~1 GHz	Fig.A.6.2.25	Р
802.11n	802.11n (HT20)	1 GHz ~ 3 GHz	Fig.A.6.2.26	Р
(HT20)		3 GHz ~ 18 GHz	Fig.A.6.2.27	Р
		18 GHz~ 26.5 GHz	Fig.A.6.2.28	Р
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.29	Р
	11	1 GHz ~ 3 GHz	Fig.A.6.2.30	Р
	11	3 GHz ~ 18 GHz	Fig.A.6.2.31	Р



802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
	Power	2.38GHz ~2.45GHz	Fig.A.6.2.32	Р
	3	1 GHz ~ 3 GHz	Fig.A.6.2.33	Р
	3	3 GHz ~ 18 GHz	Fig.A.6.2.34	Р
		30 MHz ~1 GHz	Fig.A.6.2.35	Р
802.11n	6	1 GHz ~ 3 GHz	Fig.A.6.2.36	Р
(HT40)		3 GHz ~ 18 GHz	Fig.A.6.2.37	Р
		18 GHz~ 26.5 GHz	Fig.A.6.2.38	Р
		2.45GHz ~2.5GHz	Fig.A.6.2.39	Р
	9	1 GHz ~ 3 GHz	Fig.A.6.2.40	Р
	9	3 GHz ~ 18 GHz	Fig.A.6.2.41	Р

Conclusion: Pass

Note:

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

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

The measurement results are obtained as described below:

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

802.11b

Ch1

Fraguenov(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2388.700	44.4	-38.8	27.7	55.500	V
17947.500	54.7	-17.7	45.6	26.800	Н
17977.500	54.6	-17.7	45.6	26.700	V
18000.000	54.3	-45.6	44.5	55.366	V
17955.000	54.2	-17.7	45.6	26.300	Н
17782.500	54.1	-18.5	45.6	27.000	V

Ch6

Eroguanov/MUz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
17985.000	54.7	-17.7	45.6	26.800	V
17988.000	54.6	-17.7	45.6	26.700	Н
17967.000	54.5	-17.7	45.6	26.600	V
17991.000	54.4	-17.7	45.6	26.500	Н
17685.000	54.4	-18.9	45.6	27.700	V
18000.000	54.3	-45.6	44.5	55.366	Н