

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

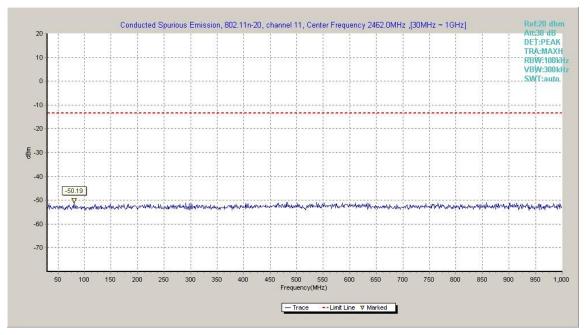


Fig.A.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)



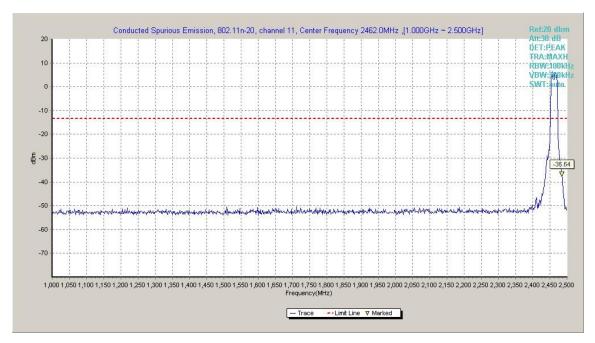


Fig.A.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)

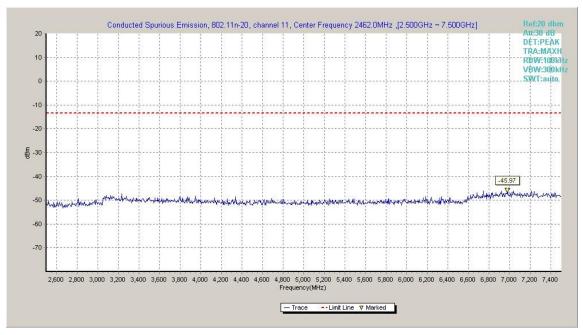


Fig.A.6.1.68 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)



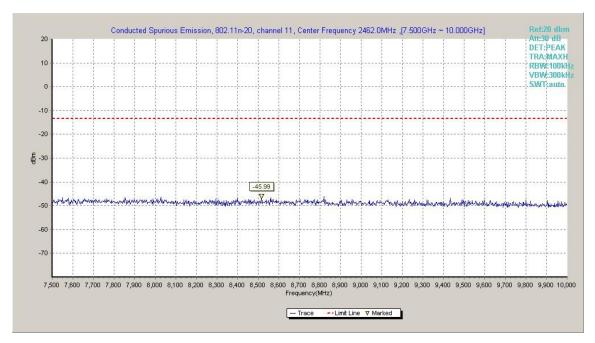


Fig.A.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)

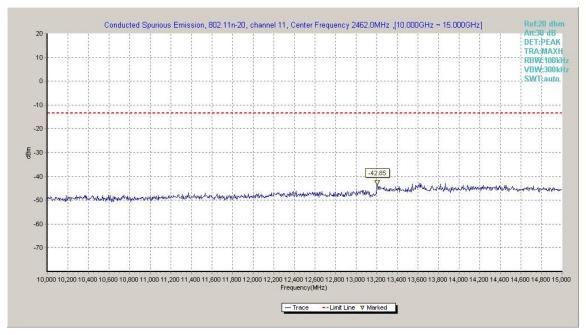


Fig.A.6.1.70 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 10 GHz-15 GHz)



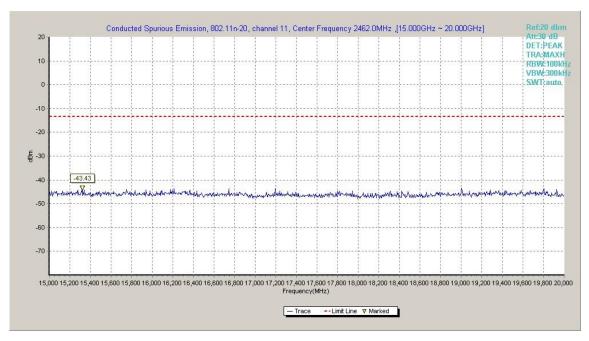


Fig.A.6.1.71 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 15 GHz-20 GHz)

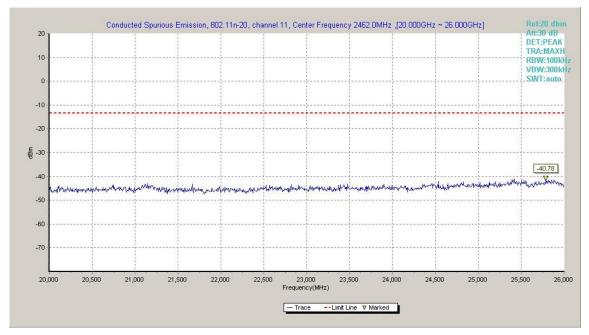


Fig.A.6.1.72 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 20 GHz-26 GHz)



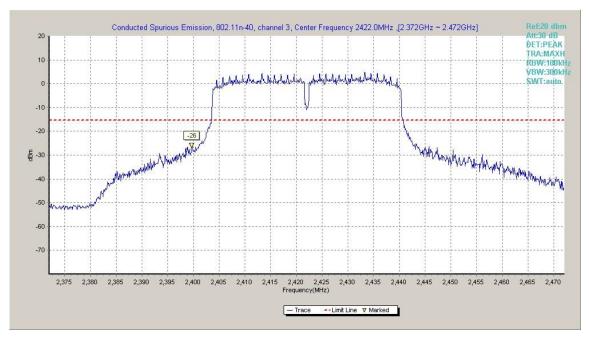


Fig.A.6.1.73 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, Center Frequency)

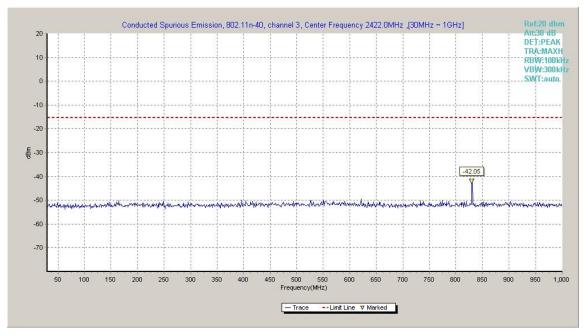


Fig.A.6.1.74 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 30 MHz-1 GHz)



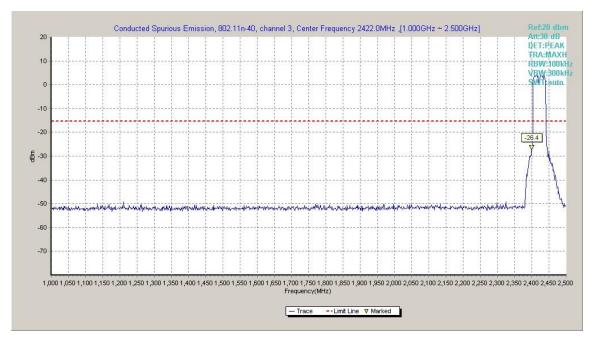


Fig.A.6.1.75 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 1 GHz-2.5 GHz)

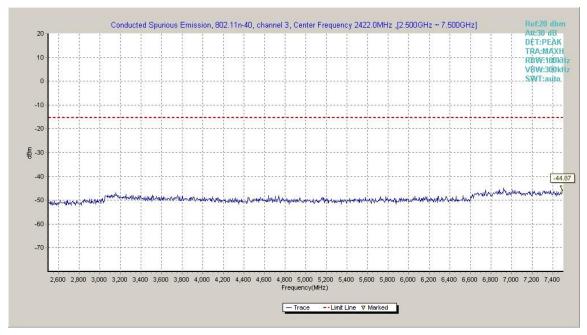


Fig.A.6.1.76 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 2.5 GHz-7.5 GHz)



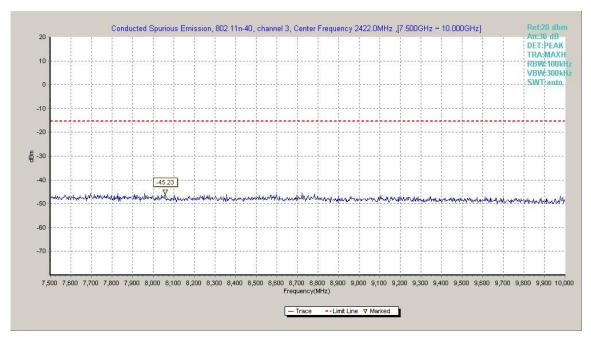


Fig.A.6.1.77 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 7.5 GHz-10 GHz)

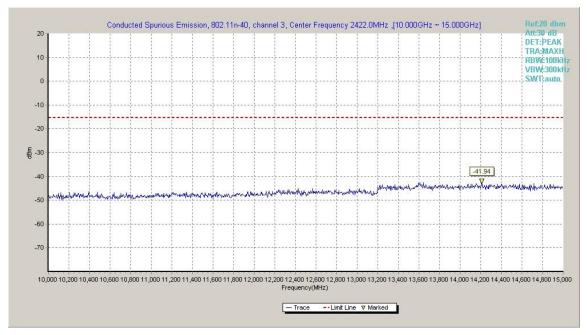


Fig.A.6.1.78 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 10 GHz-15 GHz)



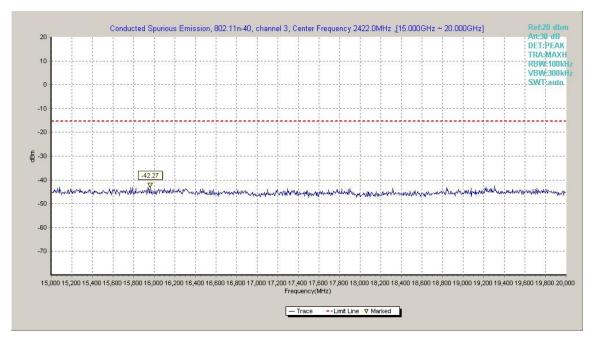


Fig.A.6.1.79 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 15 GHz-20 GHz)

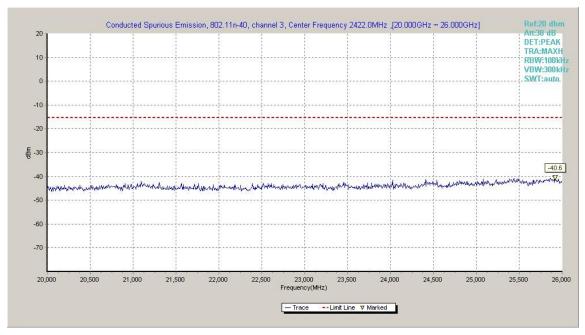


Fig.A.6.1.80 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 20 GHz-26 GHz)



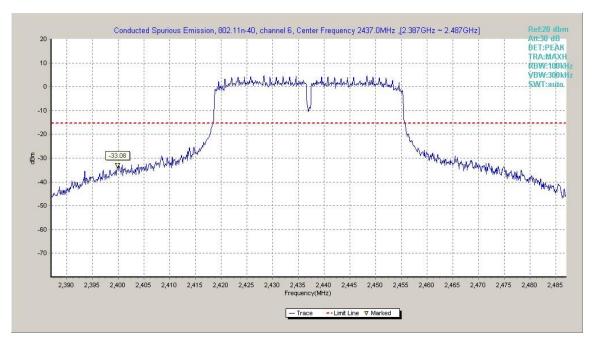


Fig.A.6.1.81 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, Center Frequency)

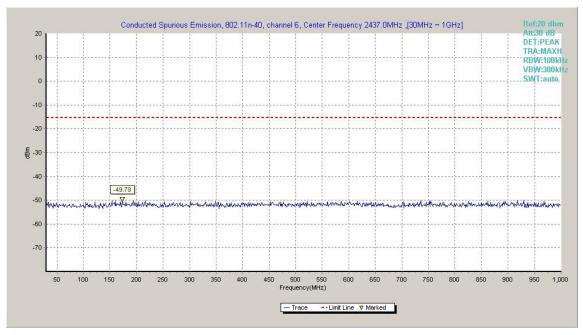


Fig.A.6.1.82 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 30 MHz-1 GHz)



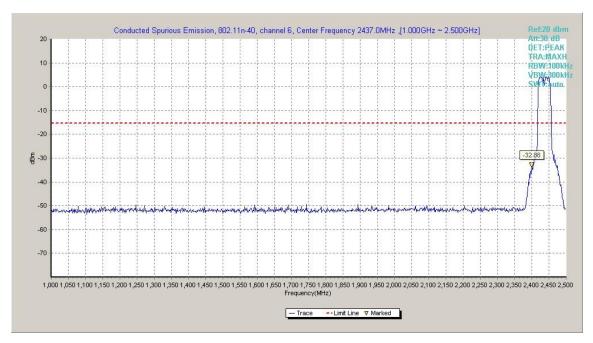


Fig.A.6.1.83 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 1 GHz-2.5 GHz)

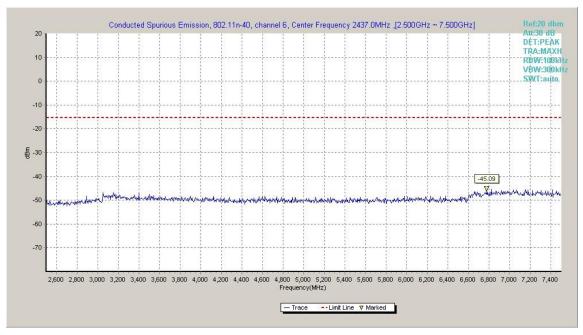


Fig.A.6.1.84 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 2.5 GHz-7.5 GHz)



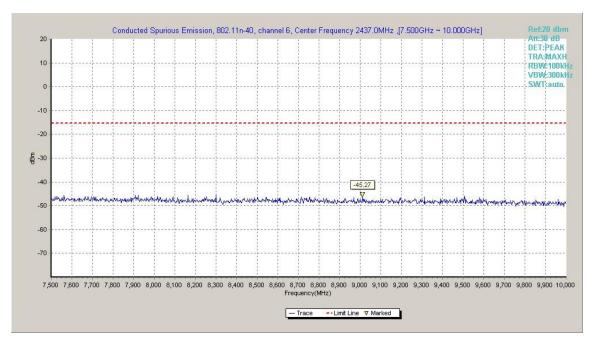


Fig.A.6.1.85 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 7.5 GHz-10 GHz)

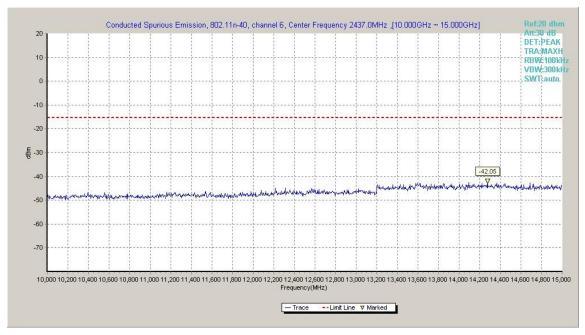


Fig.A.6.1.86 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 10 GHz-15 GHz)



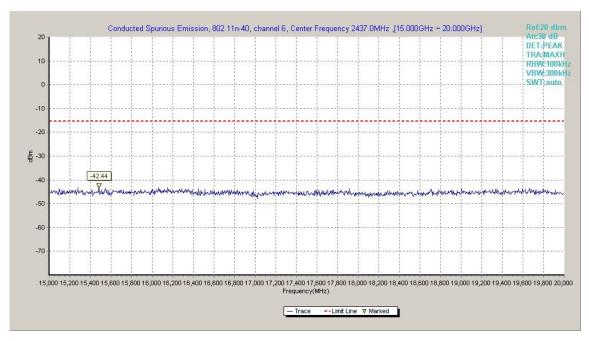


Fig.A.6.1.87 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 15 GHz-20 GHz)

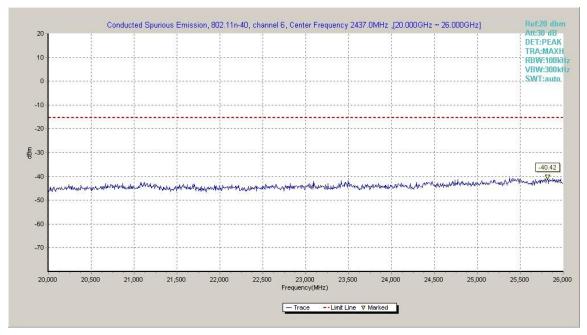


Fig.A.6.1.88 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 20 GHz-26 GHz)



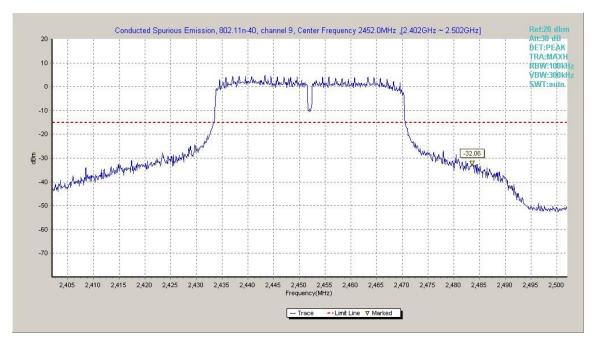


Fig.A.6.1.89 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, Center Frequency)

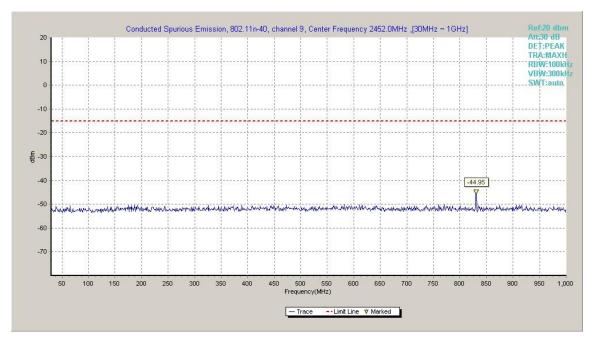


Fig.A.6.1.90 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 30 MHz-1 GHz)



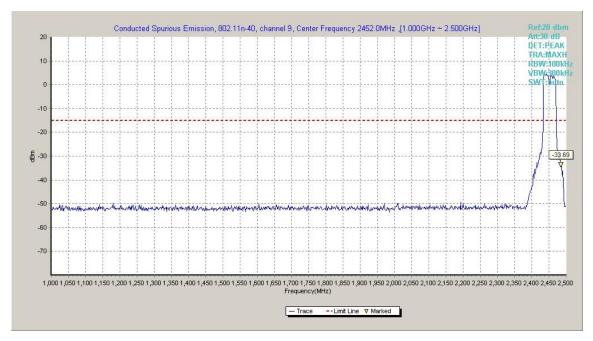


Fig.A.6.1.91 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 1 GHz-2.5 GHz)

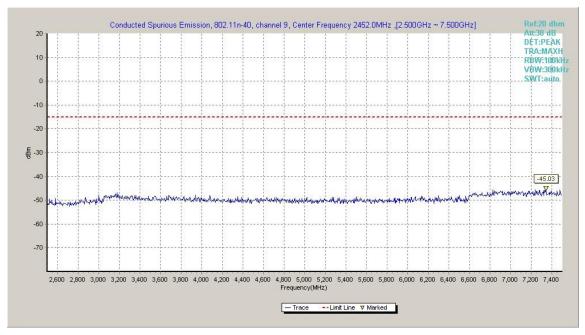


Fig.A.6.1.92 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 2.5 GHz-7.5 GHz)



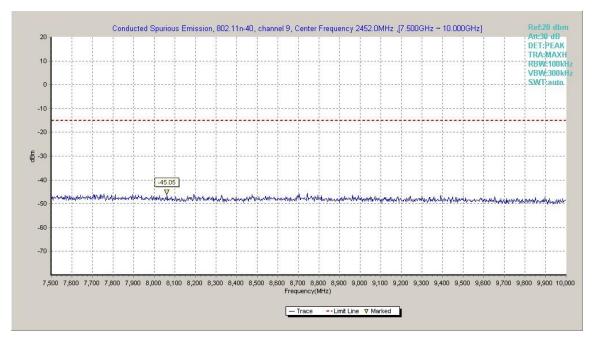


Fig.A.6.1.93 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 7.5 GHz-10 GHz)

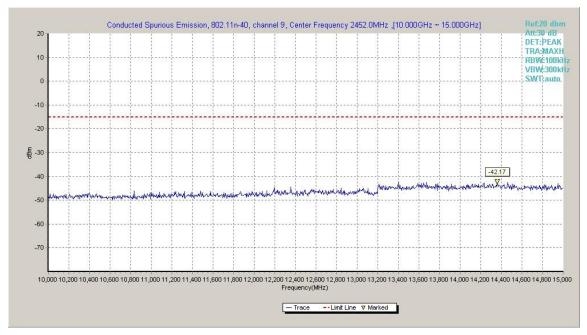


Fig.A.6.1.94 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 10 GHz-15 GHz)



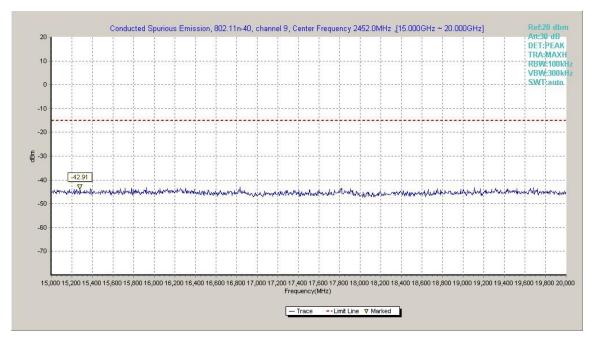


Fig.A.6.1.95 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 15 GHz-20 GHz)

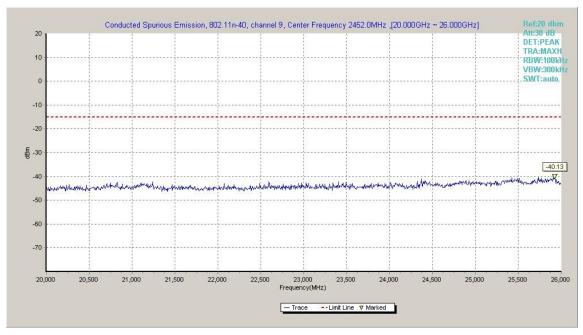


Fig.A.6.1.96 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 20 GHz-26 GHz)



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 (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: EUT1



Measurement Results:

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
902 11b	Power 2.38GHz ~2.45GHz		Fig.A.6.2.1	Р
802.11b Power		2.45GHz ~2.5GHz	Fig.A.6.2.2	Р

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
902.11a	Power	2.38GHz ~2.43GHz	Fig.A.6.2.3	Р
802.11g	Power	2.45GHz ~2.5GHz	Fig.A.6.2.4	Р

802.11n-HT20 mode

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

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n	Power	2.38GHz ~2.45GHz	Fig.A.6.2.7	Р
(HT40)	Power	2.45GHz ~2.5GHz	Fig.A.6.2.8	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



Average 802.11b

Ch1

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(IVIHZ)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2387.810	46.4	-38.8	27.7	57.5	Н
9648.000	50.2	-25.4	38.0	37.6	Н
9648.500	46.7	-25.4	38.0	34.1	V
17928.000	44.9	-17.7	45.6	17.0	Н
17927.000	44.9	-17.7	45.6	17.0	Н
17909.000	44.8	-18.5	45.6	17.7	Н

Ch6

Fraguenov/MUz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
9748.000	51.3	-24.5	38.0	37.8	Н
9748.500	47.8	-24.5	38.0	34.3	Н
17914.500	44.9	-17.7	45.6	17.0	V
17925.500	44.6	-17.7	45.6	16.7	Н
17913.500	44.6	-18.5	45.6	17.5	Н
17907.000	44.6	-18.5	45.6	17.5	Н

Fraguenov/MII=	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2486.185	46.1	-38.9	27.7	57.3	Н
9848.000	50.3	-24.8	38.0	37.1	Н
9848.500	46.3	-24.8	38.0	33.1	V
17912.500	44.9	-18.5	45.6	17.8	Н
17913.000	44.8	-18.5	45.6	17.7	Н
17911.000	44.7	-18.5	45.6	17.6	Н



802.11g

Ch1

Fraguenov/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2389.245	49.5	-38.8	27.7	60.6	Н
9648.000	50.0	-25.4	38.0	37.4	Н
9648.500	46.7	-25.4	38.0	34.1	V
17905.500	44.8	-18.5	45.6	17.7	Н
17906.000	44.7	-18.5	45.6	17.6	Н
17929.000	44.7	-17.7	45.6	16.8	Н

Ch6

Fragues (MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
9748	49.6	-24.5	38	36.1	Н
9748.5	46.2	-24.5	38	32.7	Н
17909.5	44.9	-18.5	45.6	17.8	V
17925.5	44.8	-17.7	45.6	16.9	Н
17926.5	44.8	-17.7	45.6	16.9	Н
17914.5	44.7	-17.7	45.6	16.8	Н

Fragues (MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2483.820	46.2	-38.9	27.7	57.4	Н
9848.000	49.2	-24.8	38.0	36.0	Н
9848.500	45.2	-24.8	38.0	32.0	V
17906.500	44.3	-18.5	45.6	17.2	Н
17905.500	44.3	-18.5	45.6	17.2	Н
17916.500	44.2	-17.7	45.6	16.3	Н



Ch1

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(winz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2389.695	49.1	-38.8	27.7	60.2	Н
9648.000	50.8	-25.4	38.0	38.2	Н
9648.500	47.3	-25.4	38.0	34.7	V
9647.500	44.4	-25.4	38.0	31.8	Н
17918.500	44.4	-17.7	45.6	16.5	Н
17926.000	44.2	-17.7	45.6	16.3	Н

Ch6

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
1 requericy(ivii iz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
9748	49.9	-24.5	38	36.4	Н
9748.5	46.4	-24.5	38	32.9	Н
17934.5	44.3	-17.7	45.6	16.4	V
17910	44.1	-18.5	45.6	17.0	Н
17939.5	44.1	-17.7	45.6	16.2	Н
17915.5	44.1	-17.7	45.6	16.2	Н

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2483.575	50.2	-38.9	27.7	61.4	Н
9848.000	49.2	-24.8	38.0	36.0	Н
9848.500	45.0	-24.8	38.0	31.8	V
17915.500	44.6	-17.7	45.6	16.7	П
17917.500	44.4	-17.7	45.6	16.5	Н
17920.500	44.4	-17.7	45.6	16.5	Н



Ch3

Fraguenov/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2389.960	52.6	-38.8	27.7	63.7	Н
9688.000	50.9	-24.5	38.0	37.4	Н
9688.500	47.7	-24.5	38.0	34.2	V
9687.500	44.6	-24.5	38.0	31.1	Н
17938.000	44.1	-17.7	45.6	16.2	Н
17910.000	44.0	-18.5	45.6	16.9	Н

Ch6

Fragues (MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
9748.000	51.2	-24.5	38.0	37.7	Н
9748.500	47.8	-24.5	38.0	34.3	Н
9747.500	44.7	-24.5	38.0	31.2	V
17912.500	44.3	-18.5	45.6	17.2	Н
17910.000	44.2	-18.5	45.6	17.1	Н
17901.000	44.1	-18.5	45.6	17.0	Н

Fragues av(MLI=)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2484.925	51.0	-38.9	27.7	62.2	Н
9808.000	50.6	-24.8	38.0	37.4	Н
9808.500	47.8	-24.8	38.0	34.6	V
17931.500	44.4	-17.7	45.6	16.5	Н
17921.000	44.3	-17.7	45.6	16.4	Н
17915.000	44.1	-17.7	45.6	16.2	Н



Peak 802.11b

Ch1

Fraguency/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2388.560	56.2	-38.8	27.7	67.3	Н
17956.000	56.3	-17.7	45.6	28.4	Н
17982.500	56.2	-17.7	45.6	28.3	V
17930.500	56.1	-17.7	45.6	28.2	Н
17825.000	56.0	-18.5	45.6	28.9	Н
17861.500	56.0	-18.5	45.6	28.9	Н

Ch6

Fragues av/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
17930.500	56.8	-17.7	45.6	28.9	Н
17834.000	56.3	-18.5	45.6	29.2	Н
17900.000	56.1	-18.5	45.6	29.0	V
17914.500	56.1	-17.7	45.6	28.2	Н
17926.000	56.1	-17.7	45.6	28.2	Н
17918.000	56.0	-17.7	45.6	28.1	Н

Francisco as (NALIE)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2486.160	56.6	-38.9	27.7	67.8	Н
17926.500	57.0	-17.7	45.6	29.1	Н
17929.500	56.1	-17.7	45.6	28.2	V
17939.500	56.1	-17.7	45.6	28.2	Н
17924.500	56.0	-17.7	45.6	28.1	Н
17907.500	55.8	-18.5	45.6	28.7	Н



802.11g

Ch1

Fraguenov/MUz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2389.485	69.6	-38.8	27.7	80.7	Н
17985.000	56.6	-17.7	45.6	28.7	Н
17932.500	56.3	-17.7	45.6	28.4	V
17927.500	56.0	-17.7	45.6	28.1	Н
17905.000	55.8	-18.5	45.6	28.7	Н
17916.500	55.8	-17.7	45.6	27.9	Н

Ch6

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
r requericy(ivii iz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
17988.000	56.6	-17.7	45.6	28.7	Н
17959.500	56.6	-17.7	45.6	28.7	Н
17923.000	56.0	-17.7	45.6	28.1	V
17889.000	55.8	-18.5	45.6	28.7	Н
17944.500	55.8	-17.7	45.6	27.9	Н
17888.000	55.7	-18.5	45.6	28.6	Н

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(IVIFIZ)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2483.820	63.1	-38.9	27.7	74.3	Н
17892.000	56.0	-18.5	45.6	28.9	Н
17917.500	55.8	-17.7	45.6	27.9	V
17929.000	55.7	-17.7	45.6	27.8	Н
17933.500	55.5	-17.7	45.6	27.6	Н
17955.000	55.4	-17.7	45.6	27.5	Н



Ch1

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(winz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2389.265	70.1	1 -38.8 27.7 81.2		Н	
17920.500	56.0	-17.7	45.6	28.1	Н
17936.000	55.5	-17.7 45.6 2		27.6	V
17808.500	55.5	-18.5 45.6 28.4		28.4	Н
17815.000	55.4	-18.5	45.6	28.3	Н
17908.000	55.2	-18.5	45.6	28.1	Н

Ch6

Fraguenov/MUz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
17905.000	56.1	-18.5	45.6	29.0	Н
17829.000	55.8	-18.5	45.6	28.7	Н
17936.000	55.6	6 -17.7 45.6		27.7	V
17922.000	55.5	5.5 -17.7 45.6 2		27.6	Н
17917.000	55.4	-17.7	45.6	27.5	Н
17908.000	55.4	-18.5	45.6	28.3	Н

Frequency(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(IVIFIZ)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2483.855	69.9	-38.9	27.7	81.1	Н
17907.000	56.3	-18.5	45.6	29.2	Н
17832.000	56.2	-18.5	45.6	29.1	V
17906.500	55.8	-18.5	45.6	28.7	Н
17909.500	55.7	-18.5	45.6	28.6	Н
17995.500	55.4	-17.7	45.6	27.5	Н



Ch3

Fraguenov/MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2389.470	70.8	-38.8	27.7	81.9	Н
17840.500	55.8	-18.5	45.6	28.7	Н
17951.500	55.7	5.7 -17.7 45.6		27.8	V
17939.000	55.6	5.6 -17.7 45.6 27		27.7	Н
17908.000	55.2	-18.5	45.6	28.1	Н
17915.500	55.1	-17.7	45.6	27.2	Н

Ch6

Fraguenov(MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
17950.000	56.5	-17.7	45.6	28.6	Н
17917.000	55.9	-17.7	45.6	28.0	Н
17928.000	55.6	55.6 -17.7		27.7	V
17880.000	55.5	-18.5	45.6	28.4	Н
17905.000	55.3	-18.5	45.6	28.2	Н
17920.500	55.0	-17.7	45.6	27.1	Н

Ch9

Fragues (MHz)	Result	Cable	Antenna	P _{Mea}	Polarization
Frequency(MHz)	(dBuV/m)	Loss(dB)	Factor	(dBuV/m)	
2484.765	68.9	-38.9	27.7	80.1	Н
17923.000	55.9	-17.7	45.6	28.0	Н
17911.500	55.7	-18.5	45.6	28.6	V
17910.500	55.5	-18.5	45.6	28.4	Н
17925.500	55.5	-17.7	45.6	27.6	Н
17909.000	55.5	-18.5	45.6	28.4	Н

Sample calculation: 802.11n 40MHz CH9-Peak, 2484.765MHz

Peak ERP(dBm) = $P_{Mea}(80.1dBuV/m)$ + Cable Loss(-38.9) + Antenna Factor(27.7) = 68.9

dBuV/m



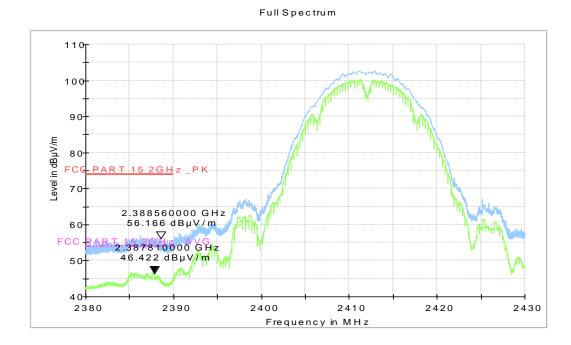


Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.38 GHz - 2.45GHz

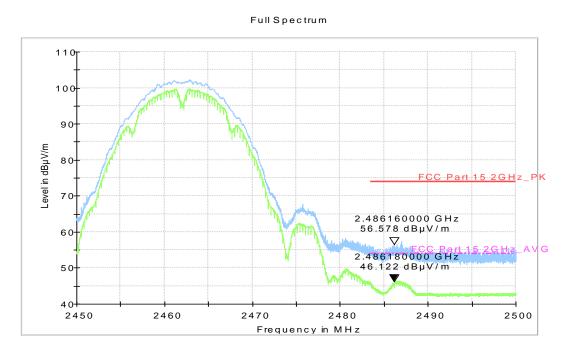


Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz



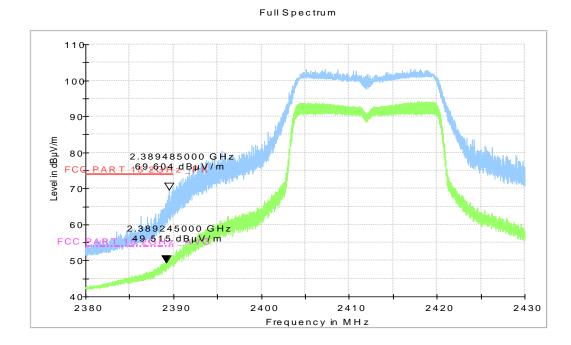


Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

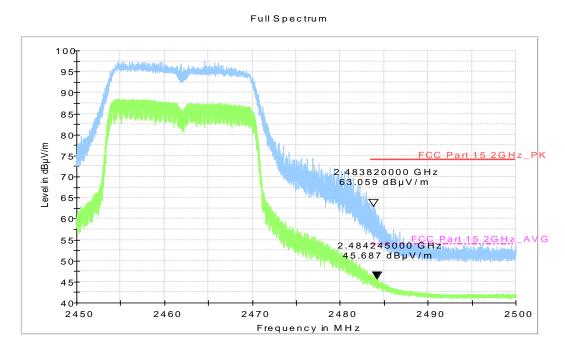


Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz



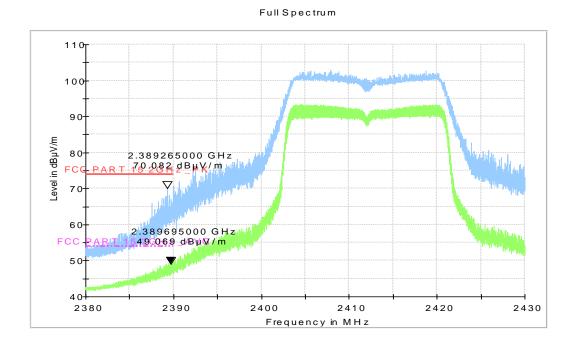


Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

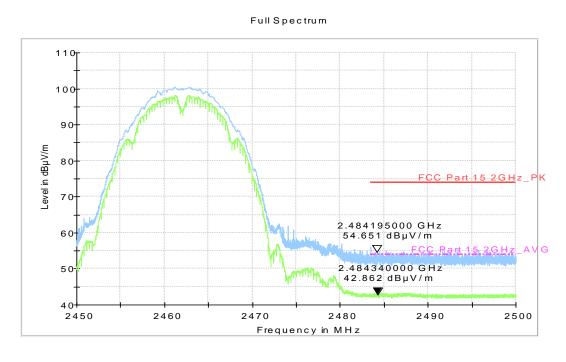


Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz



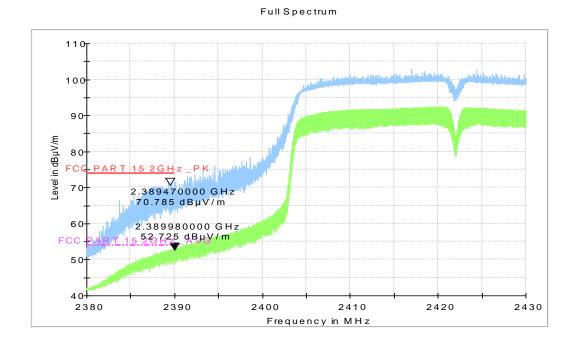


Fig.A.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.45GHz

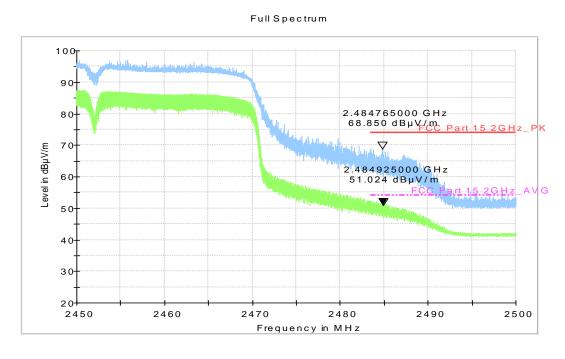


Fig.A.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz



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.
- 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.
- 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.
- 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:

WLAN (Quasi-peak Limit)

Frequency range	requency range Quasi-peak (MHz) Limit (dB _µ V)		Result (dB _µ V) With charger		
(101112)	Еппи (авру)	802.11b	Idle		
0.15 to 0.5	66 to 56				
0.5 to 5	56	Fig.A.7.1	Fig.A.7.2	Р	
5 to 30	60				

NOTE: The limit decreases linearly with the logarithm of the frequency in the range $0.15\,\mathrm{MHz}$ to $0.5\,\mathrm{MHz}$.

WLAN (Average Limit)

Frequency range	Average Limit	Result With c	• • •	Conclusion
(MHz)	(dBμV)	802.11b	Idle	
0.15 to 0.5	56 to 46			
0.5 to 5	46	Fig.A.7.1	Fig.A.7.2	Р
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range $0.15\,\mathrm{MHz}$ to $0.5\,\mathrm{MHz}$.

Conclusion: Pass

Test graphs as below:



traffic

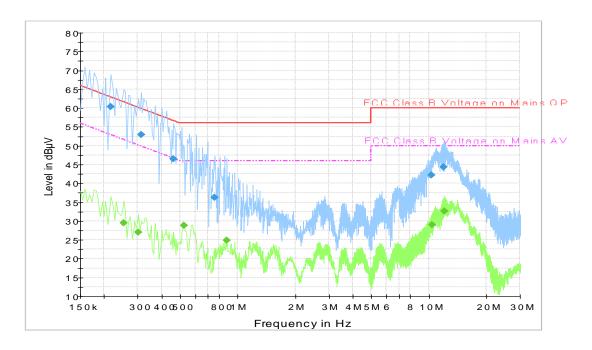


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

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

Final Result 1

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)
0.217500	60.4	N	19.8	2.5	62.9
0.312000	52.9	N	19.8	7.0	59.9
0.460500	46.6	N	19.9	10.1	56.7
0.757500	36.3	N	19.8	19.7	56.0
10.306500	42.2	N	19.8	17.8	60.0
11.953500	44.3	L1	19.7	15.7	60.0

Final Result 2

Frequency	Average	Line	Corr.	Margin	Limit
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)
0.253500	29.5	N	19.8	22.1	51.6
0.303000	27.1	N	19.8	23.1	50.2
0.523500	28.8	N	19.9	17.2	46.0
0.874500	24.8	N	19.8	21.2	46.0
10.396500	28.9	N	19.8	21.1	50.0
12.075000	32.6	L1	19.7	17.4	50.0



idle

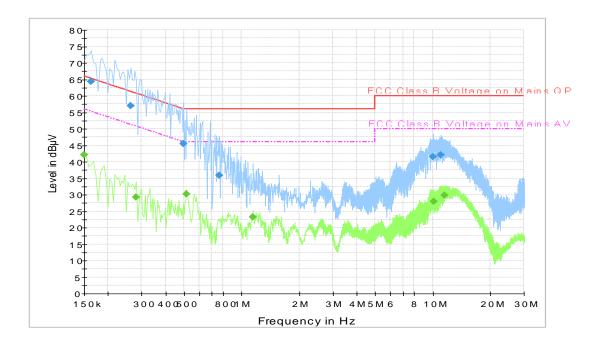


Fig.A.7.2 AC Powerline Conducted Emission-Idle

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

Final Result 1

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)
0.163500	64.3	N	19.9	1.0	65.3
0.262500	57.0	N	19.8	4.3	61.4
0.496500	45.4	N	19.9	10.7	56.1
0.766500	35.9	N	19.8	20.1	56.0
10.014000	41.4	N	19.8	18.6	60.0
10.990500	42.0	L1	19.7	18.0	60.0

Final Result 2

Frequency	Average	Line	Corr.	Margin	Limit
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)
0.150000	42.1	N	20.2	13.9	56.0
0.280500	29.3	N	19.8	21.5	50.8
0.514500	30.2	N	19.9	15.8	46.0
1.144500	23.2	L1	19.7	22.8	46.0
10.131000	28.0	N	19.8	22.0	50.0
11.476500	29.7	N	19.7	20.3	50.0