

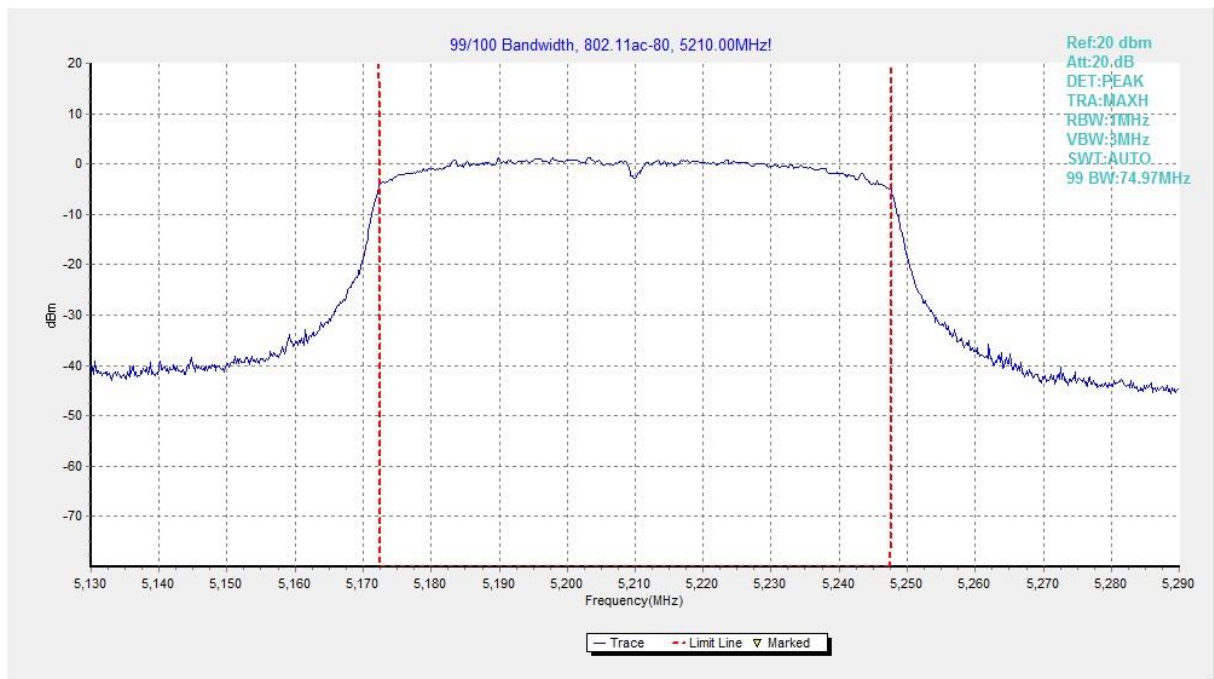


Fig. 43 99% Occupied Bandwidth (802.11ac-VHT80, 5210MHz)

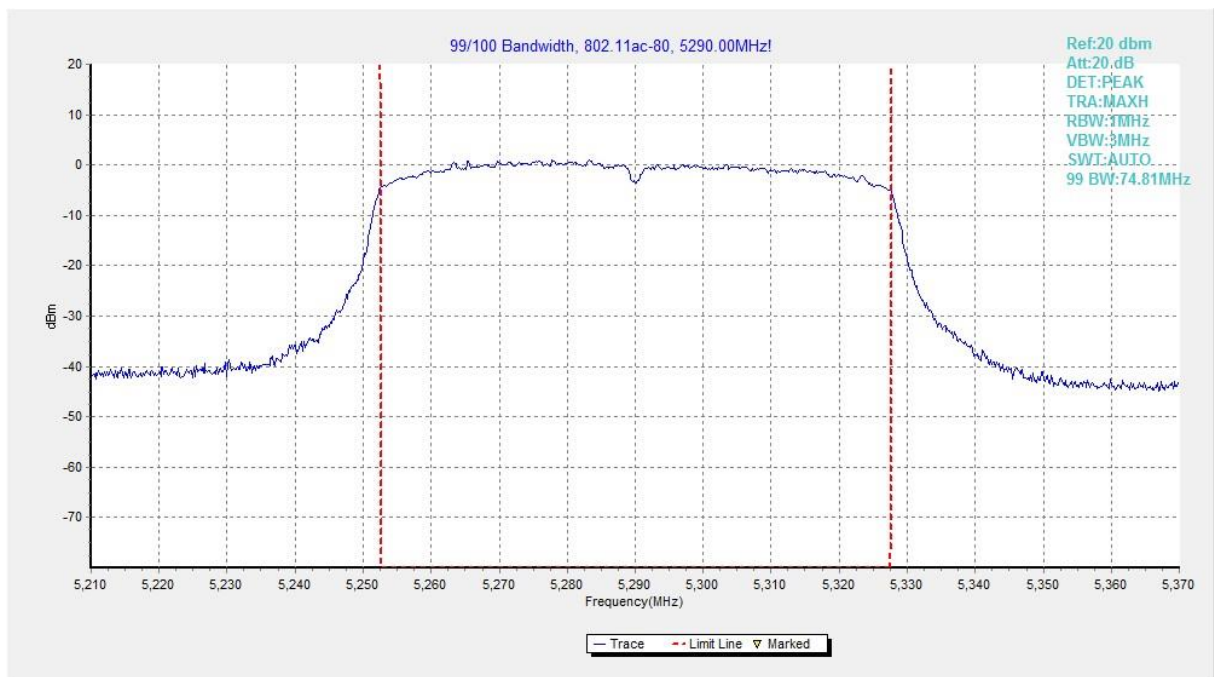


Fig. 44 99% Occupied Bandwidth (802.11ac-VHT80, 5290MHz)

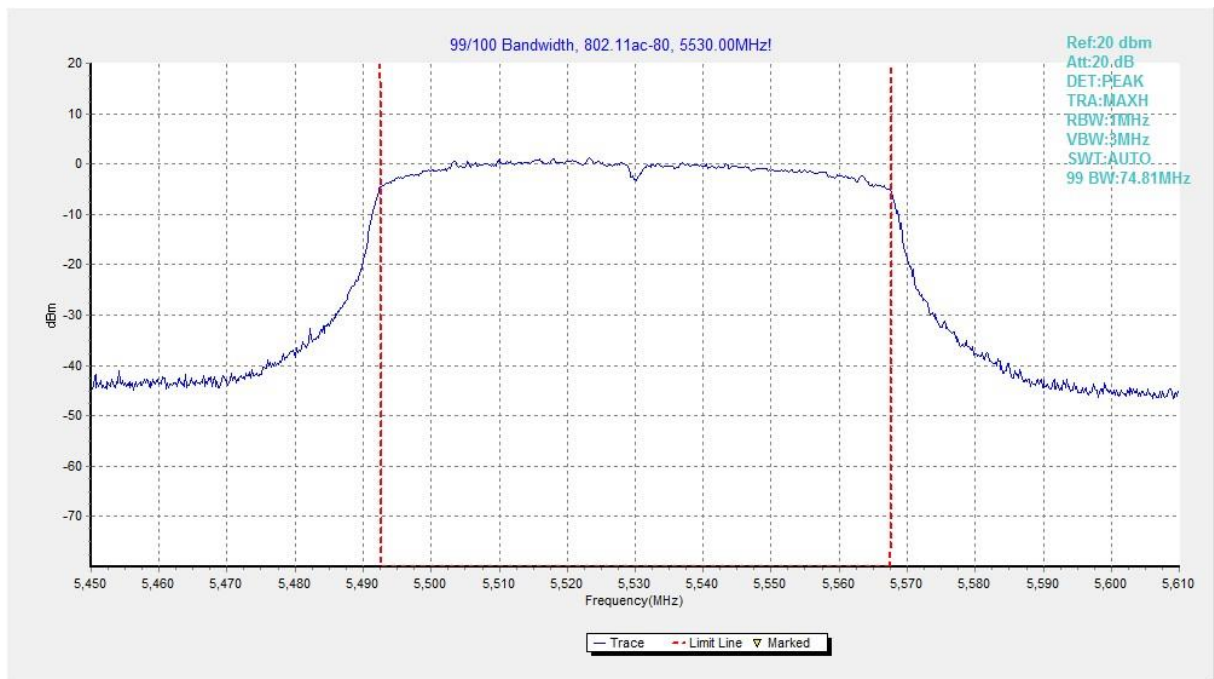


Fig. 45 99% Occupied Bandwidth (802.11ac-VHT80, 5530MHz)

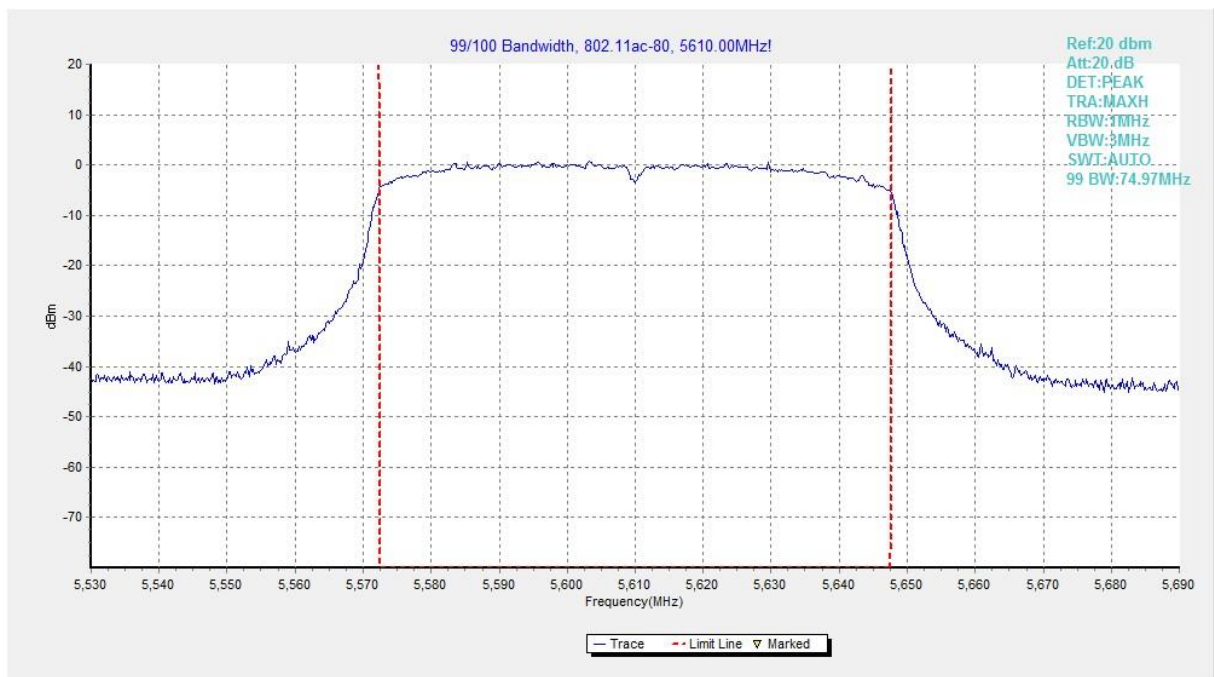


Fig. 46 99% Occupied Bandwidth (802.11ac-VHT80, 5610MHz)

A.7. Band Edges Compliance

Measurement Limit:

Standard	Limit (dBuV/m)	
FCC 47 CFR Part 15.209& RSS-247 6.2	Peak	74
	Average	54

The measurement is made according to KDB 789033

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)).

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz(CH36)	Fig.47	P
	5320 MHz(CH64)	Fig.48	P
	5500 MHz(CH100)	Fig.49	P
	5700 MHz(CH140)	Fig.50	P
	5745 MHz(CH149)	Fig.51	P
	5825 MHz(CH165)	Fig.52	P
802.11n-HT40	5190 MHz(CH38)	Fig.53	P
	5310 MHz(CH62)	Fig.54	P
	5510 MHz(CH102)	Fig.55	P
	5670 MHz(CH134)	Fig.56	P
	5755 MHz(CH151)	Fig.57	P
	5795 MHz(CH159)	Fig.58	P
802.11ac-VHT80	5210 MHz(CH42)	Fig.59	P
	5290 MHz(CH58)	Fig.60	P
	5530 MHz(CH106)	Fig.61	P
	5775 MHz(CH155)	Fig.62	P

Conclusion: PASS

Test graphs as below:

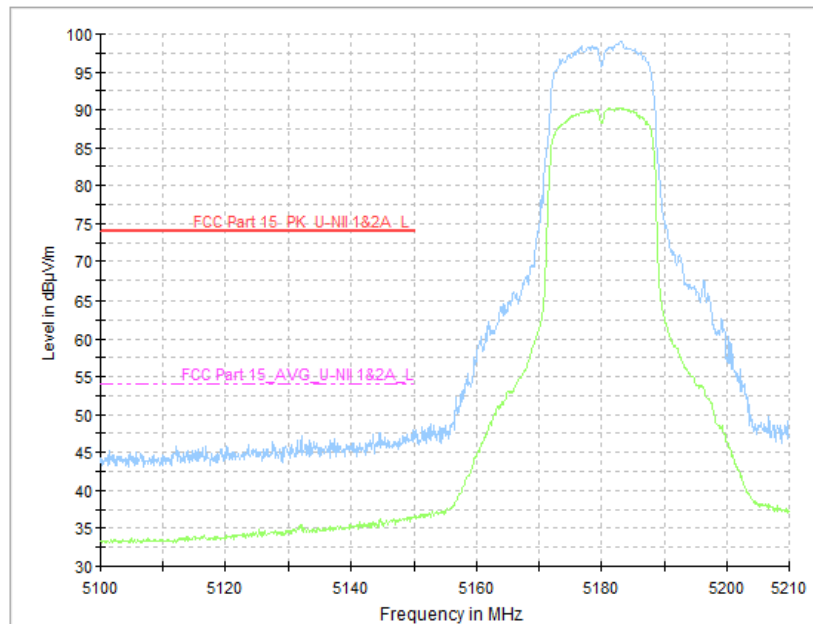


Fig. 47 Band Edges (802.11a, CH36 5180MHz)

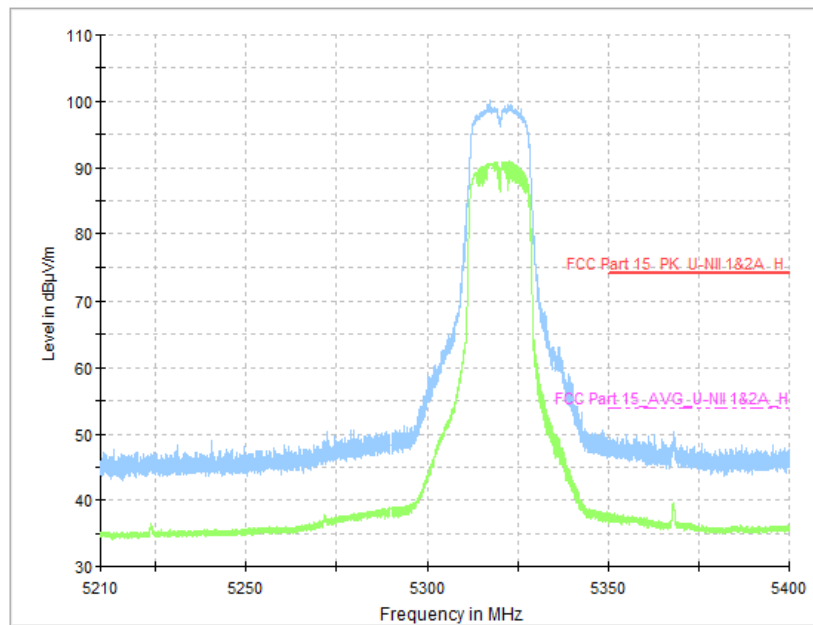


Fig. 48 Band Edges (802.11a, CH64 5320MHz)

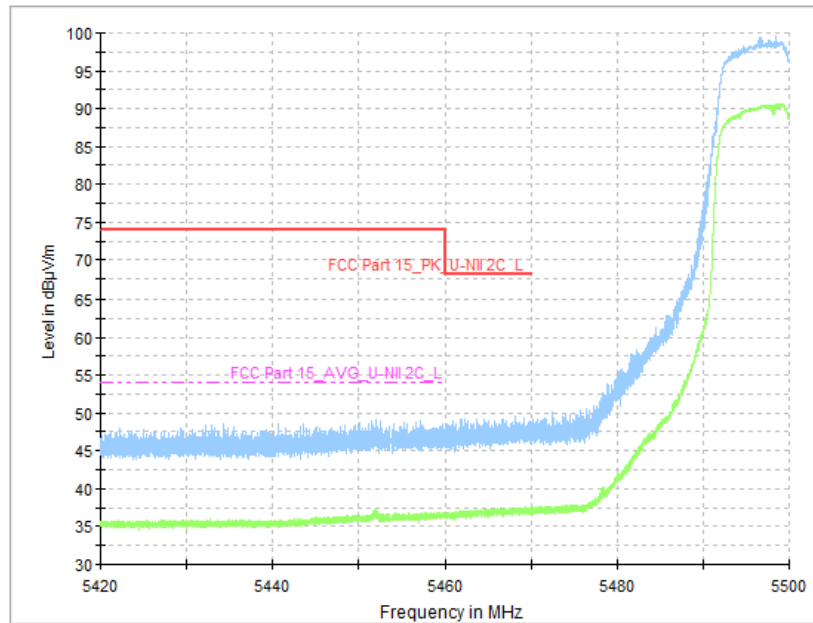


Fig. 49 Band Edges (802.11a, CH100 5500MHz)

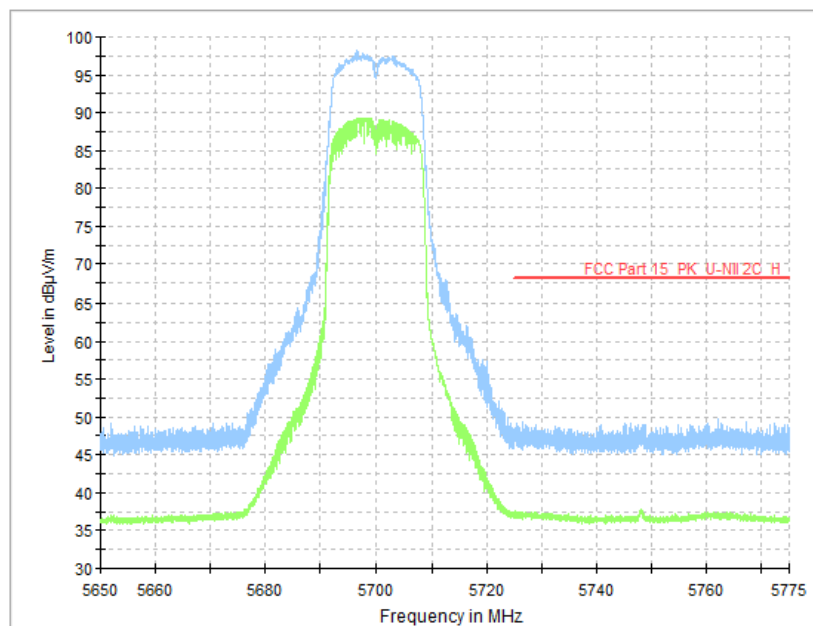


Fig. 50 Band Edges (802.11a, CH140 5700MHz)

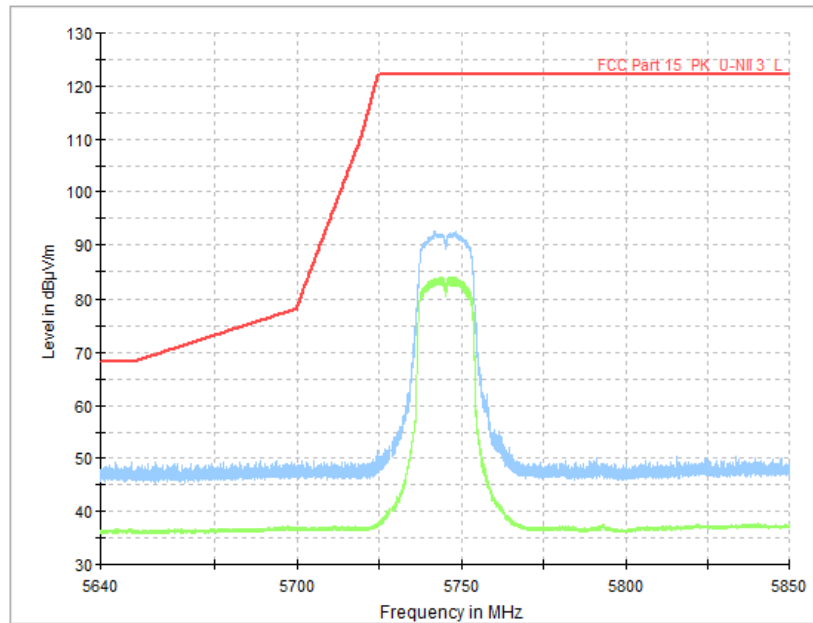


Fig. 51 Band Edges (802.11a, CH149 5745MHz)

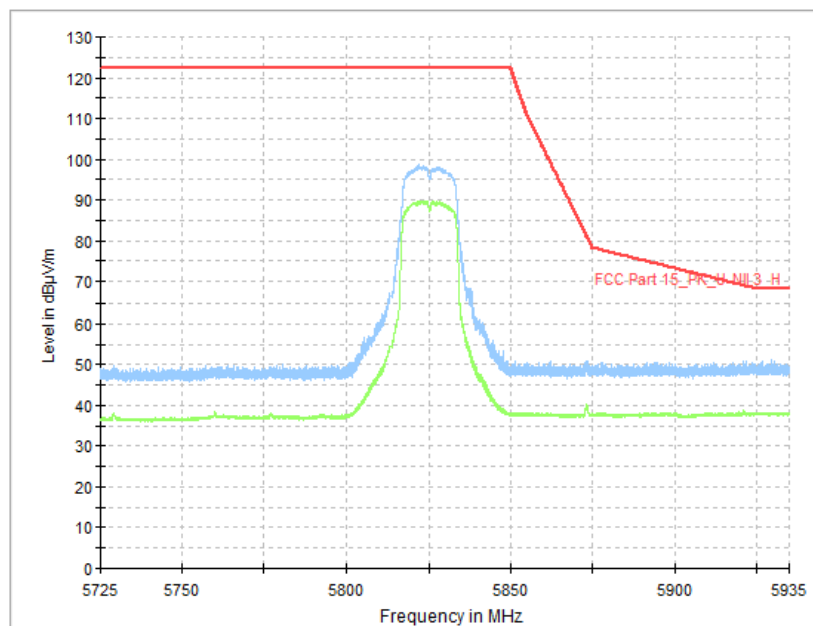


Fig. 52 Band Edges (802.11a, CH165 5825MHz)

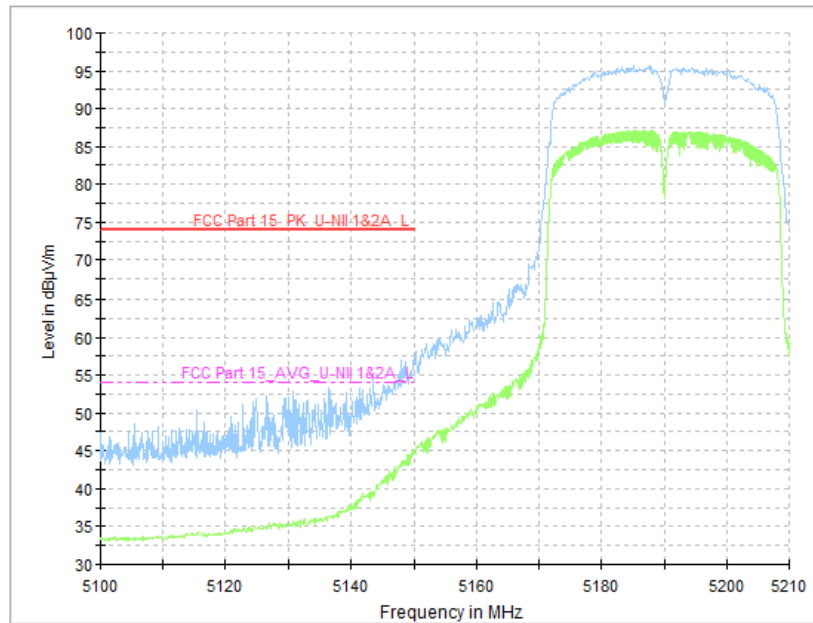


Fig. 53 Band Edges (802.11n-HT40, CH38 5190MHz)

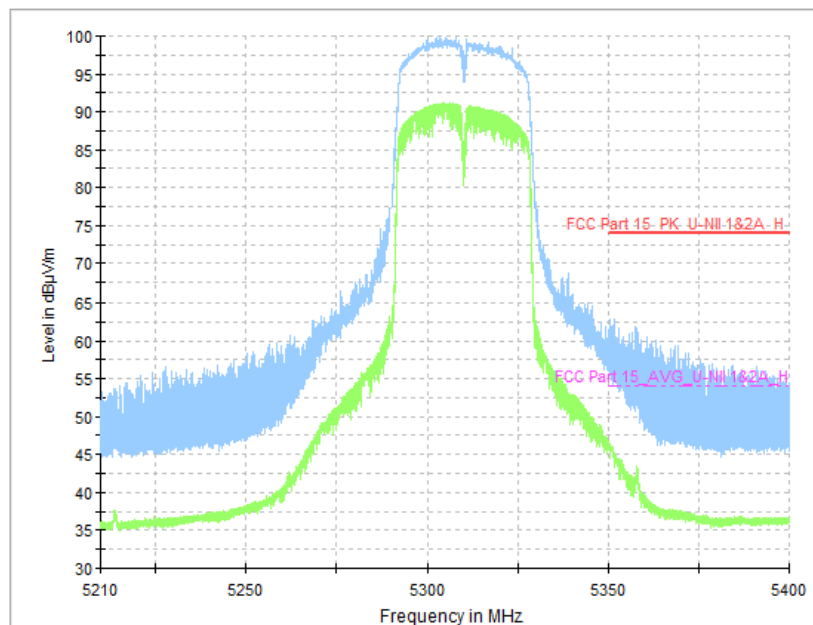


Fig. 54 Band Edges (802.11n-HT40, CH62 5310MHz)

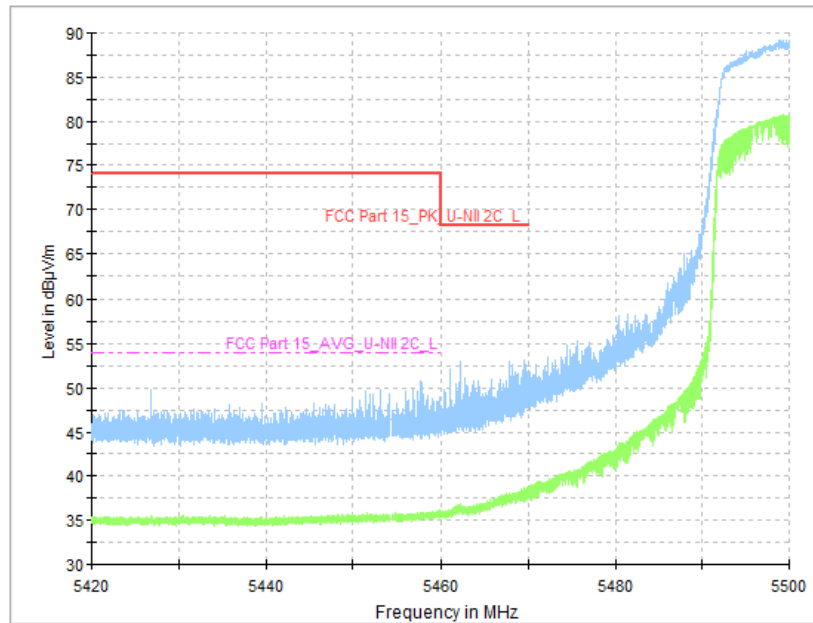


Fig. 55 Band Edges (802.11n-HT40, CH102 5510MHz)

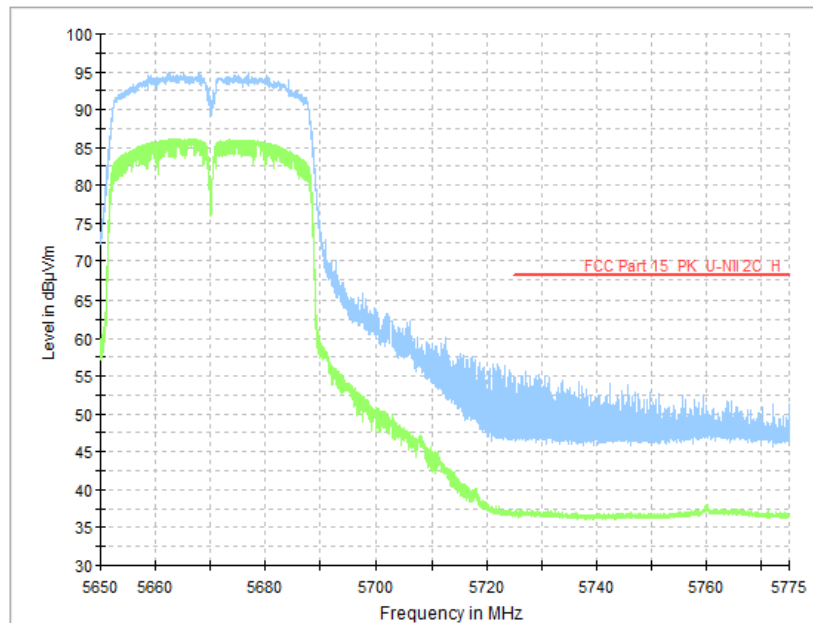


Fig. 56 Band Edges (802.11n-HT40, CH134 5670MHz)

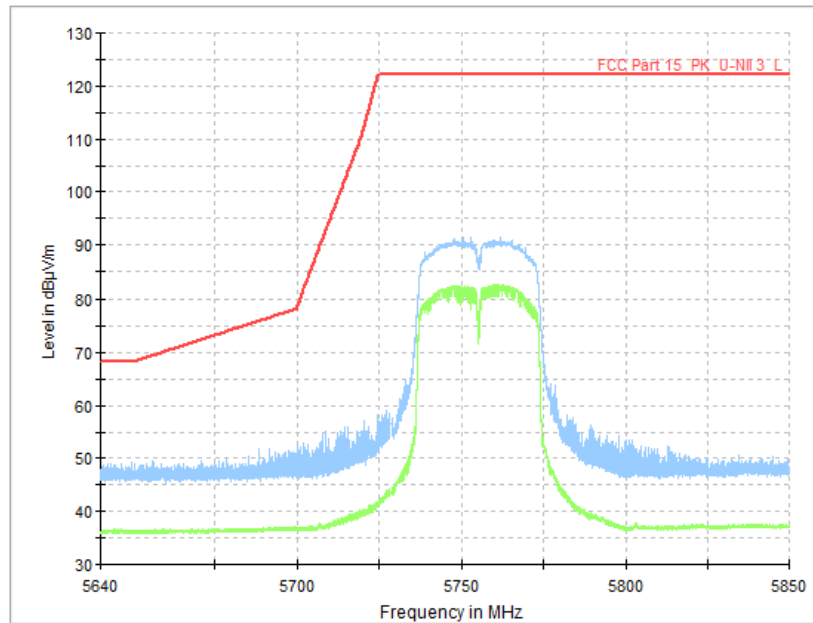


Fig. 57 Band Edges (802.11n-HT40, CH151 5755MHz)

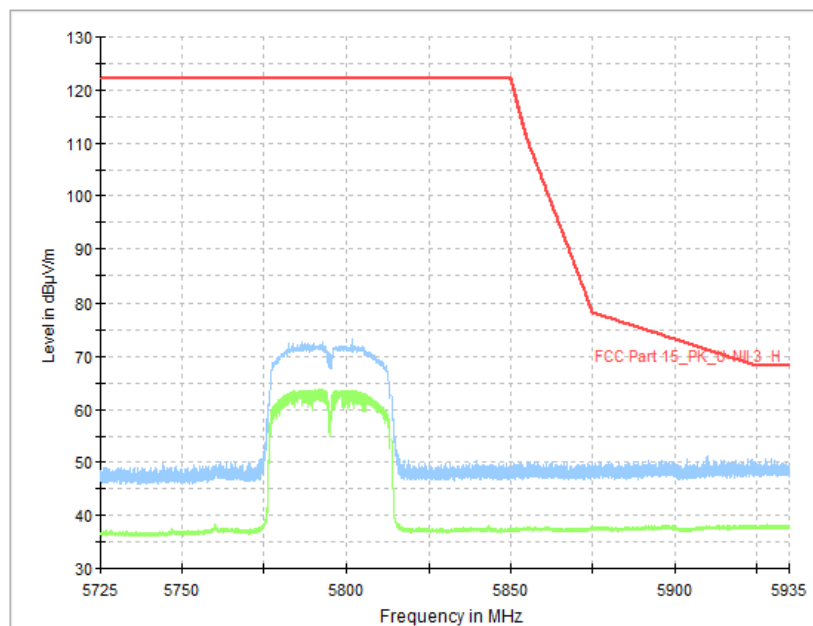


Fig. 58 Band Edges (802.11n-HT40, CH159 5795MHz)

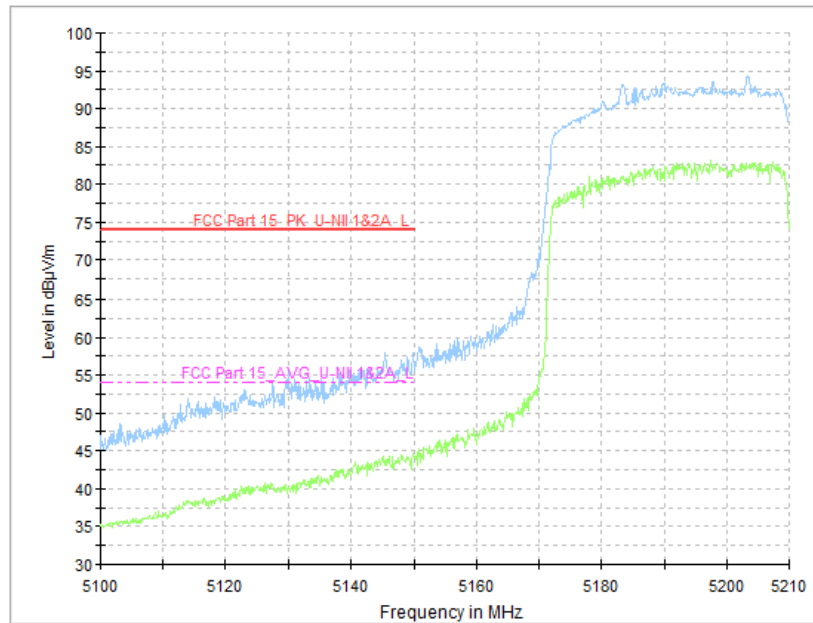


Fig. 59 Band Edges (802.11ac-VHT80, CH42 5210MHz)

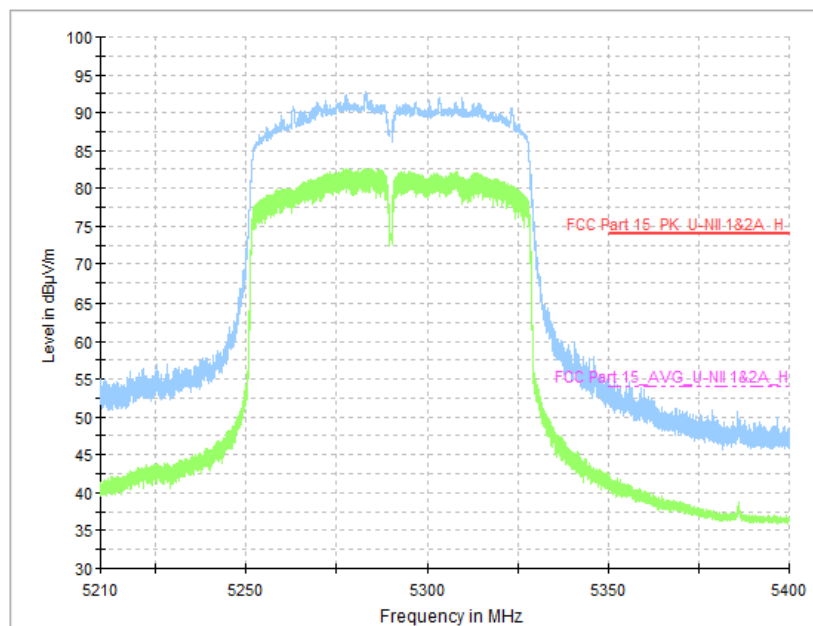


Fig. 60 Band Edges (802.11ac-VHT80, CH58 5290MHz)

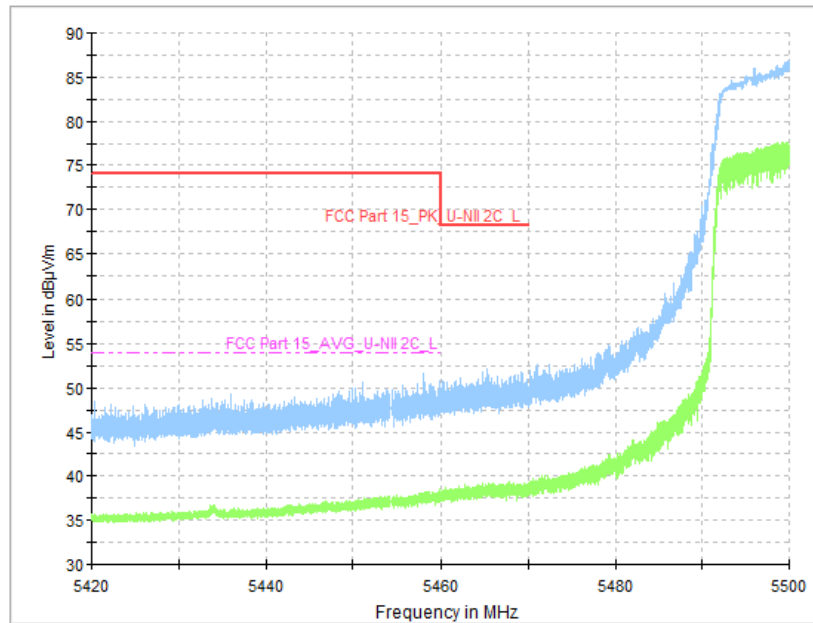


Fig. 61 Band Edges (802.11ac-VHT80, CH106 5530MHz)

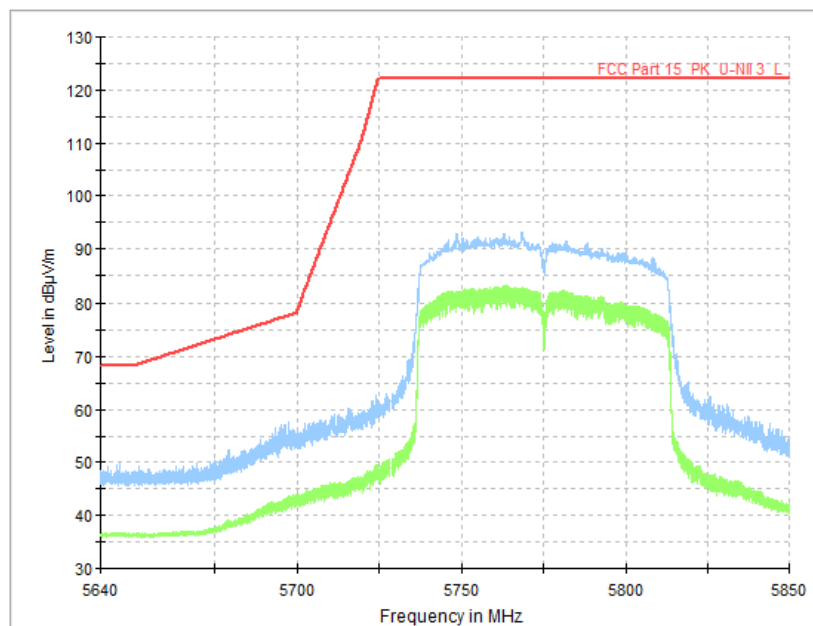


Fig. 62 Band Edges (802.11ac-VHT80, CH155 5775MHz)

A.8. Transmitter Spurious Emission

Measurement Limit:

Standard	Limit (dBuV/m)	
FCC 47 CFR Part 15.209 & RSS-GEN 8.9	Peak	74
	Average	54

The measurement is made according to KDB 789033.

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 (dBμV/m)	Measurement distance (m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Note: For frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m.

Measurement Result:

SISO:

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	5180MHz(Ch36)	1 GHz ~18 GHz	Fig.63	P
	5200MHz(Ch40)	1 GHz ~18 GHz	Fig.64	P
	5240MHz(Ch48)	1 GHz ~18 GHz	Fig.65	P
	5260MHz(Ch52)	1 GHz ~18 GHz	Fig.66	P
	5280MHz(Ch56)	1 GHz ~18 GHz	Fig.67	P
	5320MHz(Ch64)	1 GHz ~18 GHz	Fig.68	P
	5500MHz(Ch100)	1 GHz ~18 GHz	Fig.69	P
	5600MHz(Ch120)	1 GHz ~18 GHz	Fig.70	P
	5700MHz(Ch140)	1 GHz ~18 GHz	Fig.71	P
	5745MHz(Ch149)	1 GHz ~18 GHz	Fig.72	P
	5785MHz(Ch157)	1 GHz ~18 GHz	Fig.73	P
	5825MHz(Ch165)	1 GHz ~18 GHz	Fig.74	P
802.11n-HT40	5190MHz(Ch38)	1 GHz ~18 GHz	Fig.75	P
	5230MHz(Ch46)	1 GHz ~18 GHz	Fig.76	P
	5270MHz(Ch54)	1 GHz ~18 GHz	Fig.77	P
	5310MHz(Ch62)	1 GHz ~18 GHz	Fig.78	P
	5510MHz(Ch102)	1 GHz ~18 GHz	Fig.79	P
	5580MHz(Ch118)	1 GHz ~18 GHz	Fig.80	P
	5670MHz(Ch134)	1 GHz ~18 GHz	Fig.81	P
	5755MHz(Ch151)	1 GHz ~18 GHz	Fig.82	P

	5795MHz(Ch159)	1 GHz ~18 GHz	Fig.83	P
802.11a-VHT80	5210MHz(Ch42)	1 GHz ~18 GHz	Fig.84	P
	5290MHz(Ch58)	1 GHz ~18 GHz	Fig.85	P
	5530MHz(Ch106)	1 GHz ~18 GHz	Fig.86	P
	5610MHz(Ch122)	1 GHz ~18 GHz	Fig.87	P
	5775MHz(Ch155)	1 GHz ~18 GHz	Fig.88	P
All channels		30 MHz ~1 GHz	Fig.89	P
		18 GHz ~26.5 GHz	Fig.90	P
		26.5GHz~40GHz	Fig.91	P

MIMO:

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n-HT20	5180MHz(Ch36)	1 GHz ~18 GHz	Fig.92	P
	5200MHz(Ch40)	1 GHz ~18 GHz	Fig.93	P
	5240MHz(Ch48)	1 GHz ~18 GHz	Fig.94	P
	5260MHz(Ch52)	1 GHz ~18 GHz	Fig.95	P
	5280MHz(Ch56)	1 GHz ~18 GHz	Fig.96	P
	5320MHz(Ch64)	1 GHz ~18 GHz	Fig.97	P
	5500MHz(Ch100)	1 GHz ~18 GHz	Fig.98	P
	5600MHz(Ch120)	1 GHz ~18 GHz	Fig.99	P
	5700MHz(Ch140)	1 GHz ~18 GHz	Fig.100	P
	5745MHz(Ch149)	1 GHz ~18 GHz	Fig.101	P
	5785MHz(Ch157)	1 GHz ~18 GHz	Fig.102	P
	5825MHz(Ch165)	1 GHz ~18 GHz	Fig.103	P
802.11n-HT40	5190MHz(Ch38)	1 GHz ~18 GHz	Fig.104	P
	5230MHz(Ch46)	1 GHz ~18 GHz	Fig.105	P
	5270MHz(Ch54)	1 GHz ~18 GHz	Fig.106	P
	5310MHz(Ch62)	1 GHz ~18 GHz	Fig.107	P
	5510MHz(Ch102)	1 GHz ~18 GHz	Fig.108	P
	5580MHz(Ch118)	1 GHz ~18 GHz	Fig.109	P
	5670MHz(Ch134)	1 GHz ~18 GHz	Fig.110	P
	5755MHz(Ch151)	1 GHz ~18 GHz	Fig.111	P
	5795MHz(Ch159)	1 GHz ~18 GHz	Fig.112	P
802.11a-VHT80	5210MHz(Ch42)	1 GHz ~18 GHz	Fig.113	P
	5290MHz(Ch58)	1 GHz ~18 GHz	Fig.114	P
	5530MHz(Ch106)	1 GHz ~18 GHz	Fig.115	P
	5610MHz(Ch122)	1 GHz ~18 GHz	Fig.116	P
	5775MHz(Ch155)	1 GHz ~18 GHz	Fig.117	P
All channels		30 MHz ~1 GHz	Fig.118	P
		18 GHz ~26.5 GHz	Fig.119	P
		26.5GHz~40GHz	Fig.120	P

Worst Case Result

SISO:

802.11a CH36

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13420.000000	55.09	68.20	13.11	V	17
14600.750000	56.72	68.20	11.48	V	18
15251.500000	56.01	68.20	12.19	H	19
16231.500000	59.07	68.20	9.13	H	21
16575.000000	59.49	68.20	8.71	H	22
17690.250000	59.85	68.20	8.35	V	23

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
14019.250000	42.95	54.00	11.05	H	17
14576.000000	44.06	54.00	9.94	V	18
15566.250000	45.77	54.00	8.23	H	20
16262.750000	46.69	54.00	7.31	V	21
16998.250000	47.07	54.00	6.93	V	23
17899.000000	47.18	54.00	6.82	V	24

802.11n HT40 CH38

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
12936.750000	55.05	68.20	13.15	V	17
14140.500000	54.84	68.20	13.36	V	17
15202.250000	55.88	68.20	12.32	V	19
16296.500000	57.04	68.20	11.16	H	21
17016.000000	59.60	68.20	8.60	V	23
17345.750000	57.82	68.20	10.38	V	22

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13961.750000	42.53	54.00	11.47	H	17
14562.250000	43.51	54.00	10.49	V	18
15573.500000	44.59	54.00	9.41	V	20
15673.750000	45.81	54.00	8.19	H	20
17018.000000	46.53	54.00	7.47	V	23
17693.250000	45.74	54.00	8.26	V	23

802.11ac VHT80 CH42

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13228.750000	54.81	68.20	13.39	H	17
13774.000000	55.40	68.20	12.80	H	17
15249.750000	56.19	68.20	12.01	H	19
16228.750000	58.11	68.20	10.09	H	21
17023.500000	59.25	68.20	8.95	V	23
17220.500000	57.99	68.20	10.21	H	22

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13952.750000	42.67	54.00	11.33	V	17
14562.250000	43.75	54.00	10.25	H	18
15576.000000	44.99	54.00	9.01	H	20
15670.500000	45.96	54.00	8.04	V	20
17023.500000	46.84	54.00	7.16	V	23
17896.250000	45.93	54.00	8.07	V	24

MIMO:
802.11n HT20 CH36

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
14014.250000	55.39	68.20	12.81	H	17
14531.500000	56.31	68.20	11.89	V	18
15144.750000	56.70	68.20	11.50	H	18
16229.500000	58.09	68.20	10.11	V	21
16680.000000	59.27	68.20	8.93	H	22
17687.250000	58.76	68.20	9.44	V	23

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13950.000000	42.80	54.00	11.20	H	17
14561.500000	43.77	54.00	10.23	H	18
15570.000000	45.11	54.00	8.89	V	20
16279.000000	46.18	54.00	7.82	V	21
17017.500000	46.84	54.00	7.16	H	23
17461.000000	46.37	54.00	7.63	H	22

802.11n HT40 CH38

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13408.750000	55.37	68.20	12.83	H	17
13953.250000	55.69	68.20	12.51	H	17
14590.250000	56.74	68.20	11.46	V	18
15023.000000	56.01	68.20	12.19	H	18
16229.250000	58.44	68.20	9.76	V	21
16973.750000	59.81	68.20	8.39	H	23

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
14018.250000	42.88	54.00	11.12	V	17
14562.250000	43.83	54.00	10.17	V	18
15570.000000	45.18	54.00	8.82	V	20
15664.250000	46.19	54.00	7.81	V	20
17050.250000	46.89	54.00	7.11	H	22
17700.250000	46.34	54.00	7.66	H	23

802.11ac VHT80 CH42

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13222.250000	54.90	68.20	13.30	V	17
14665.000000	56.09	68.20	12.11	H	18
15157.250000	56.99	68.20	11.21	H	18
16276.250000	57.81	68.20	10.39	V	21
17042.250000	59.32	68.20	8.88	H	22
17234.500000	58.07	68.20	10.13	V	22

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13952.500000	42.67	54.00	11.33	V	17
14561.750000	43.62	54.00	10.38	H	18
15576.000000	44.92	54.00	9.08	H	20
15667.750000	45.94	54.00	8.06	V	20
17056.500000	46.68	54.00	7.32	H	22
17895.000000	46.07	54.00	7.93	H	24

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:

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

Conclusion: PASS

Test graphs as below:

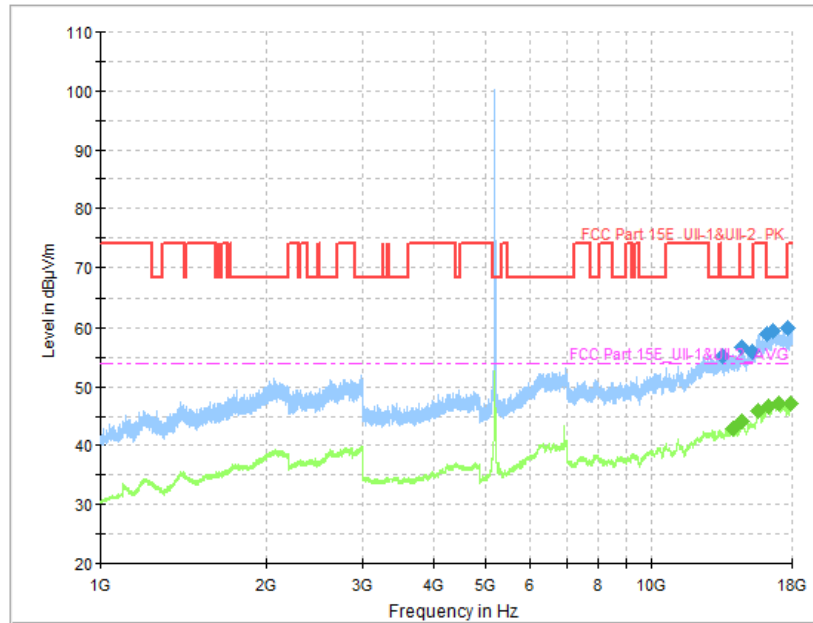


Fig. 63 Transmitter Spurious Emission (802.11a, CH36 5180MHz, 1 GHz-18 GHz)

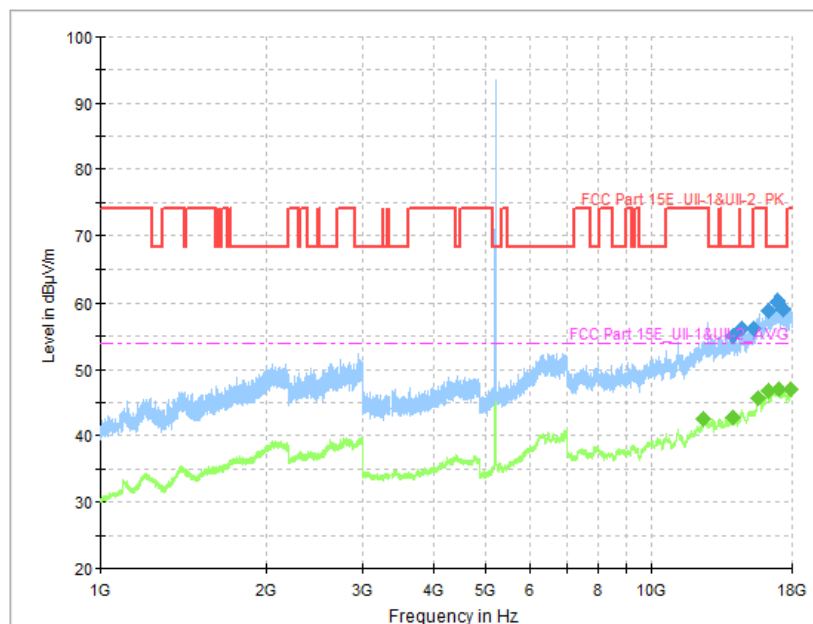


Fig. 64 Transmitter Spurious Emission (802.11a, CH40 5200MHz, 1 GHz-18 GHz)

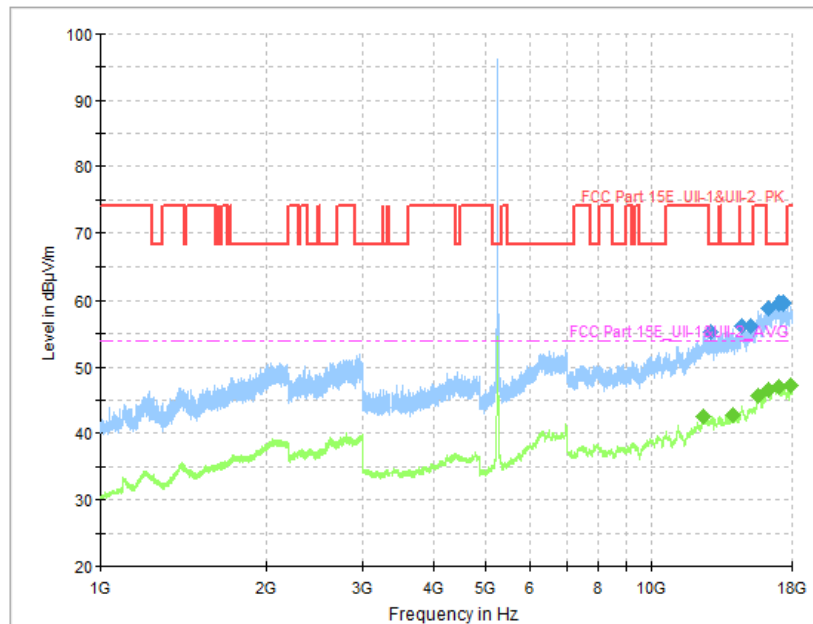


Fig. 65 Transmitter Spurious Emission (802.11a, CH48 5240MHz, 1 GHz-18 GHz)

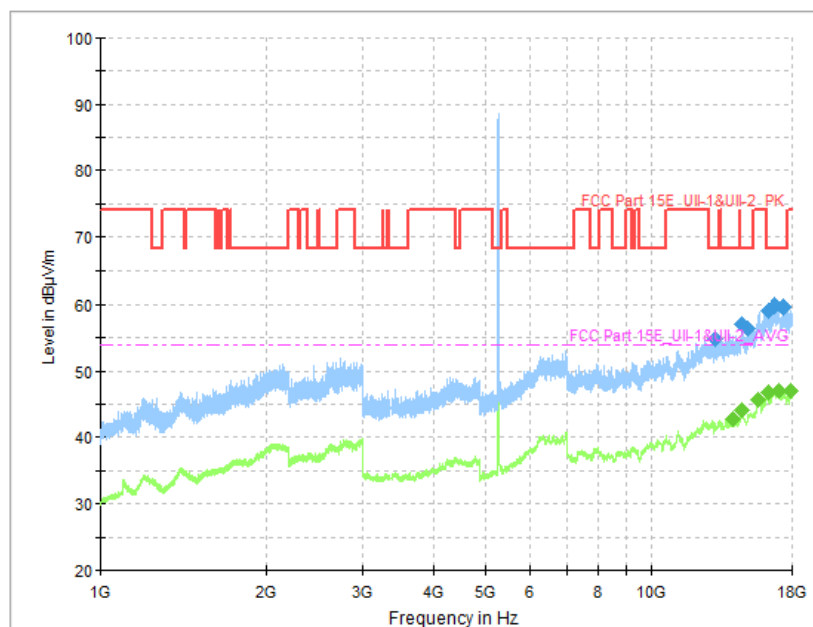


Fig. 66 Transmitter Spurious Emission (802.11a, CH52 5260MHz, 1 GHz-18 GHz)

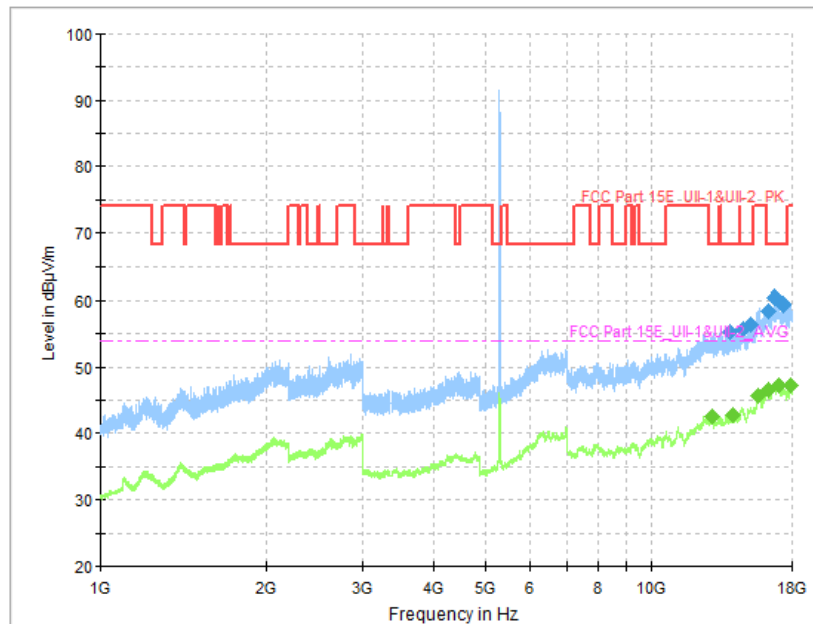


Fig. 67 Transmitter Spurious Emission (802.11a, CH56 5280MHz, 1 GHz-18 GHz)

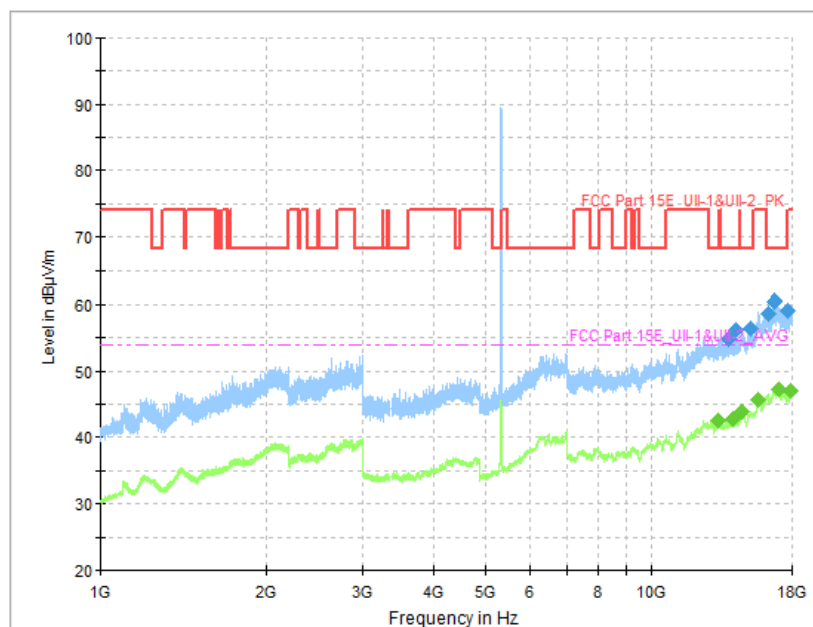


Fig. 68 Transmitter Spurious Emission (802.11a, CH64 5320MHz, 1 GHz-18 GHz)

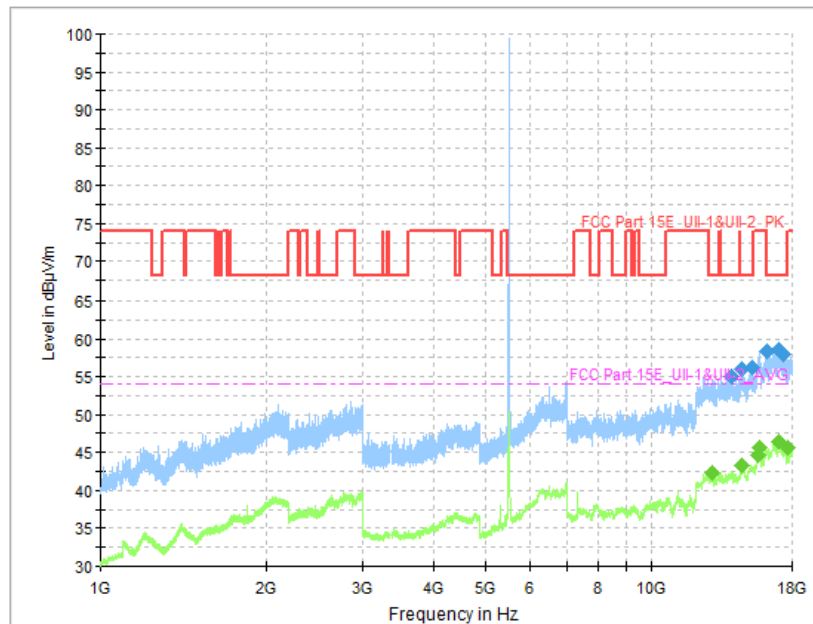


Fig. 69 Transmitter Spurious Emission (802. 11a, CH100 5500MHz, 1 GHz-18 GHz)

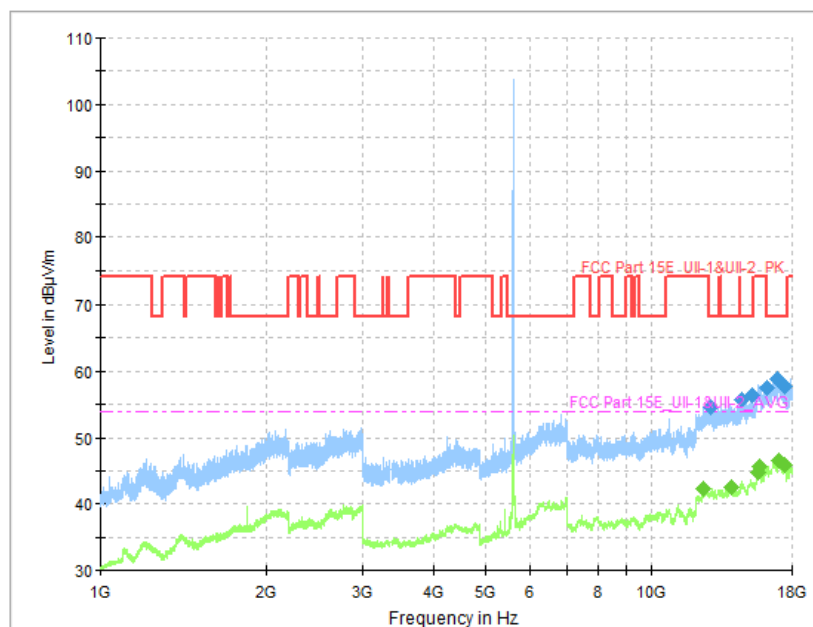


Fig. 70 Transmitter Spurious Emission (802. 11a, CH120 5600MHz, 1 GHz-18 GHz)

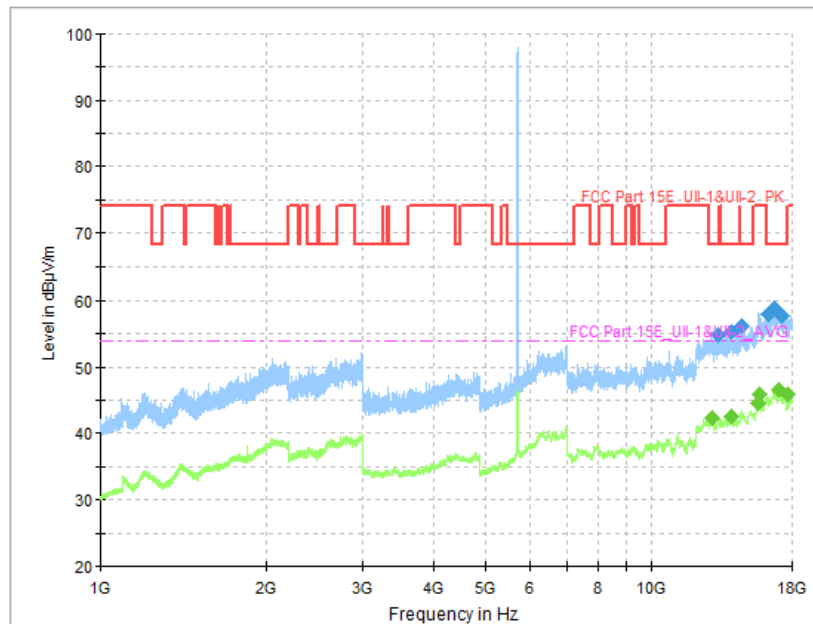


Fig. 71 Transmitter Spurious Emission (802. 11a, CH140 5700MHz, 1 GHz-18 GHz)

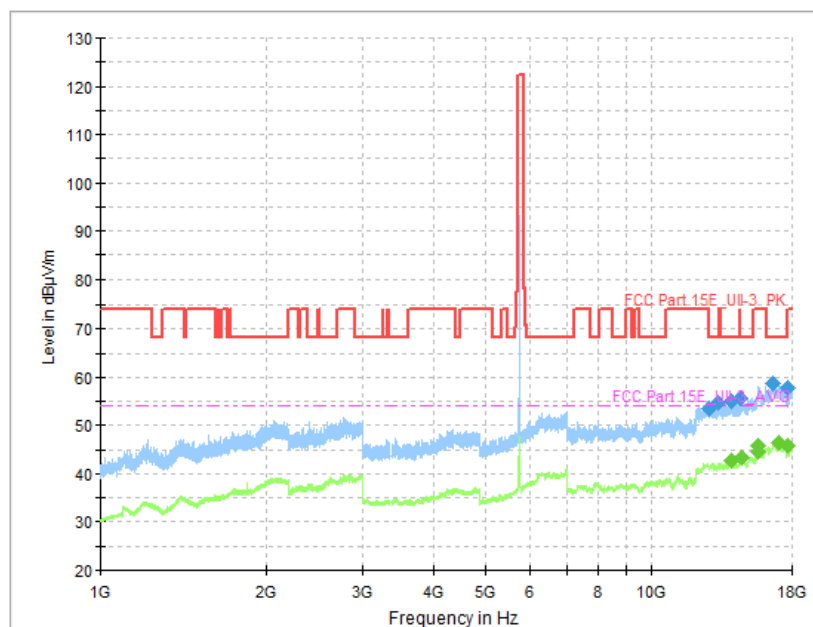


Fig. 72 Transmitter Spurious Emission (802. 11a, CH149 5745MHz, 1 GHz-18 GHz)

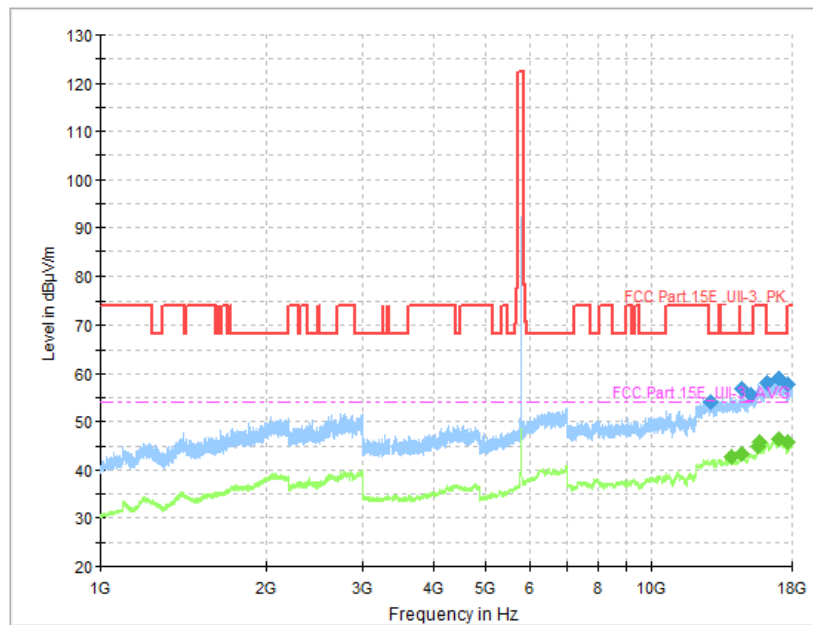


Fig. 73 Transmitter Spurious Emission (802. 11a, CH157 5785MHz, 1 GHz-18 GHz)

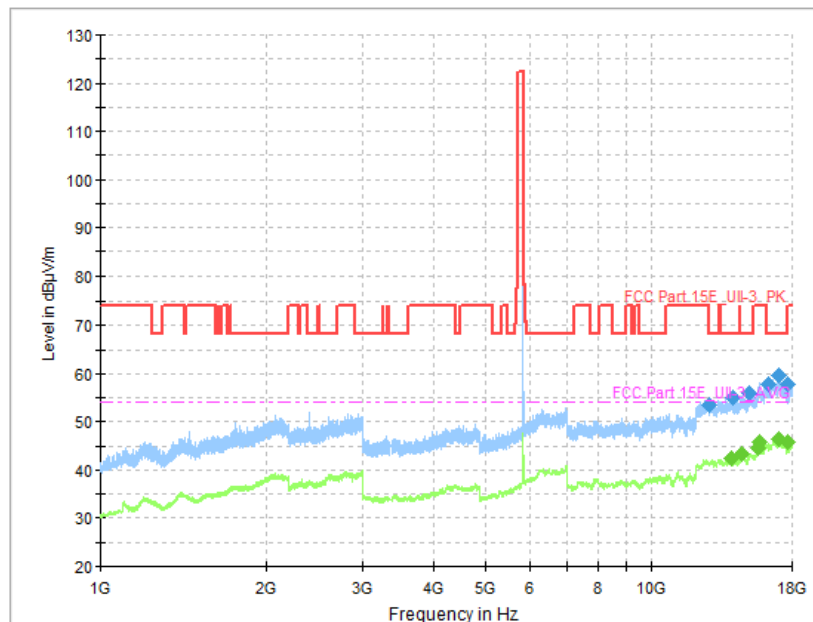


Fig. 74 Transmitter Spurious Emission (802. 11a, CH165 5825MHz, 1 GHz-18 GHz)

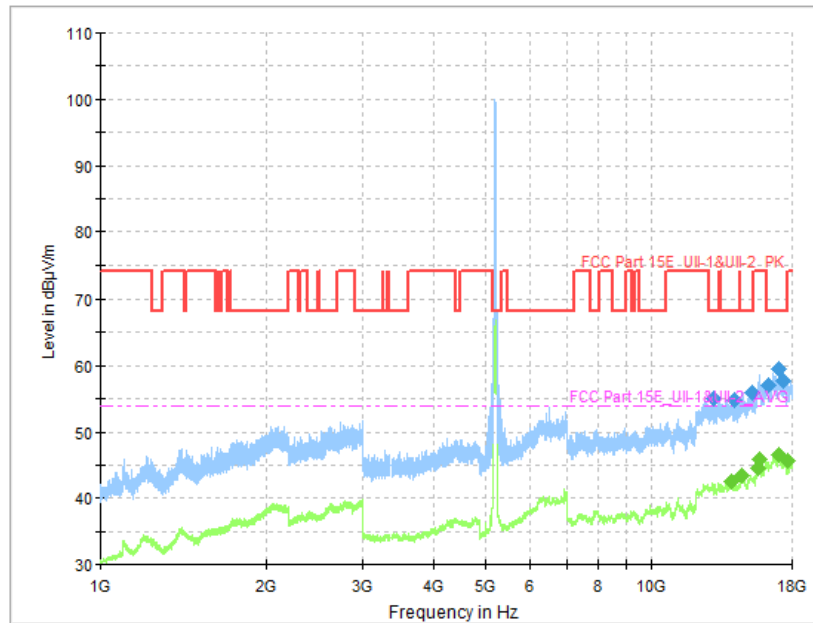


Fig. 75 Transmitter Spurious Emission (802.11n-HT40, CH38 5190MHz, 1 GHz-18 GHz)

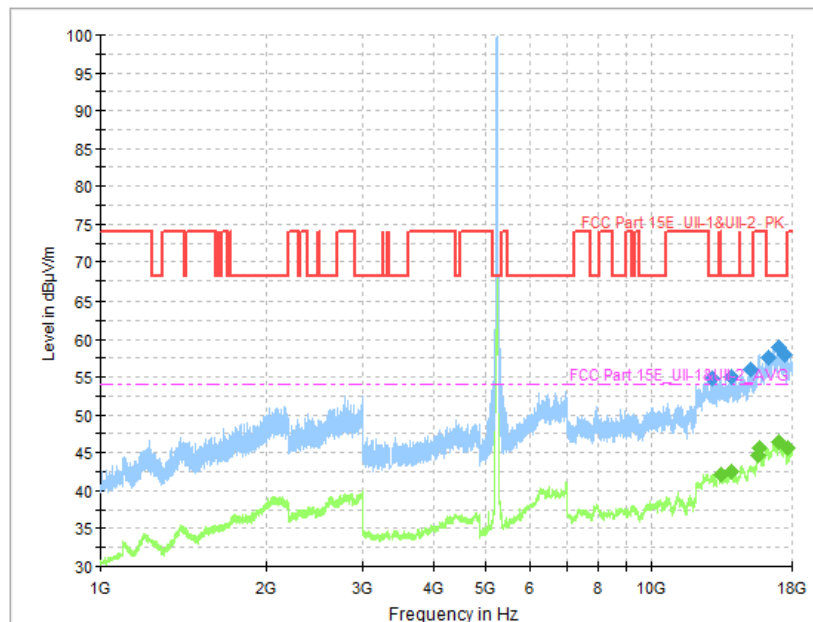


Fig. 76 Transmitter Spurious Emission (802.11n-HT40, CH46 5230MHz, 1 GHz-18 GHz)

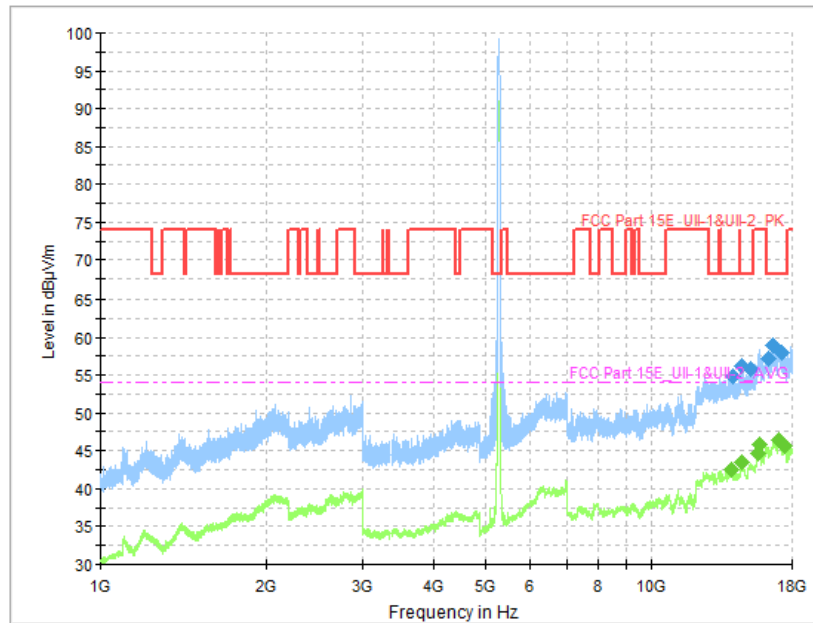


Fig. 77 Transmitter Spurious Emission (802.11n-HT40, CH54 5270MHz, 1 GHz-18 GHz)

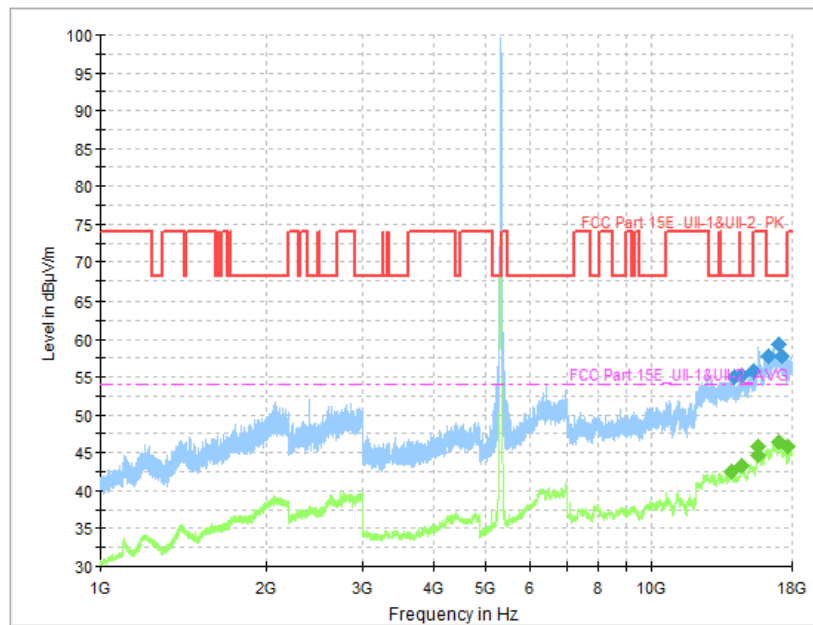


Fig. 78 Transmitter Spurious Emission (802.11n-HT40, CH62 5310MHz, 1 GHz-18 GHz)

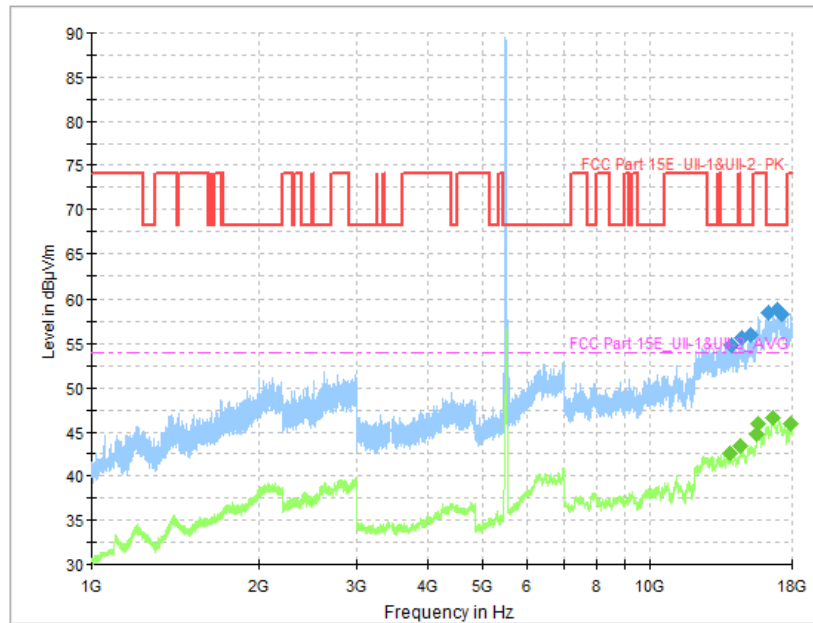


Fig. 79 Transmitter Spurious Emission (802.11n-HT40, CH102 5510MHz, 1 GHz-18 GHz)

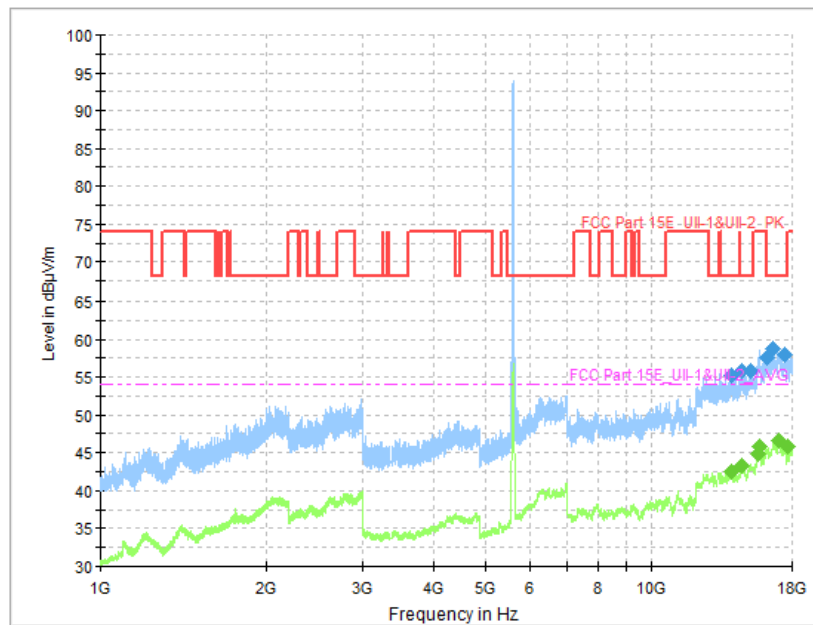


Fig. 80 Transmitter Spurious Emission (802.11n-HT40, CH118 5580MHz, 1 GHz-18 GHz)

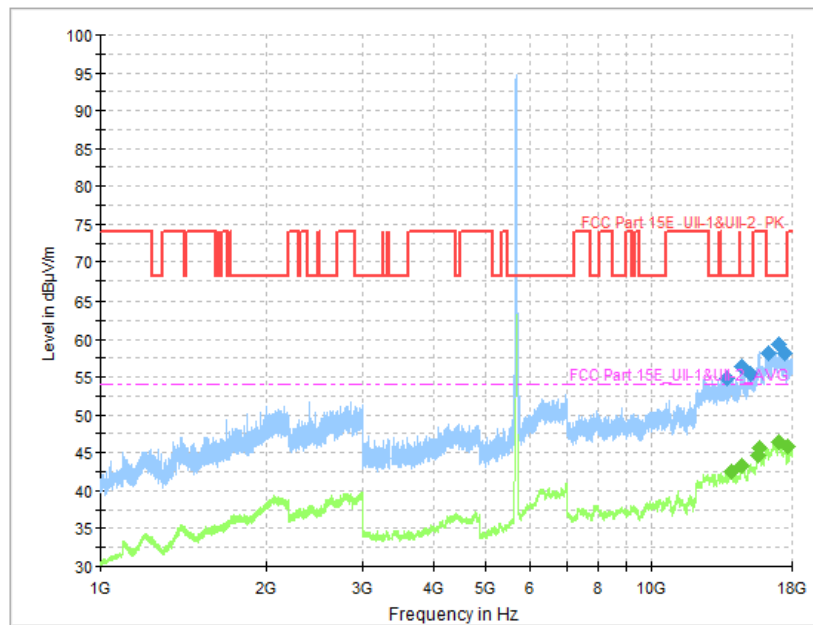


Fig. 81 Transmitter Spurious Emission (802. 11n-HT40, CH134 5670MHz, 1 GHz-18 GHz)

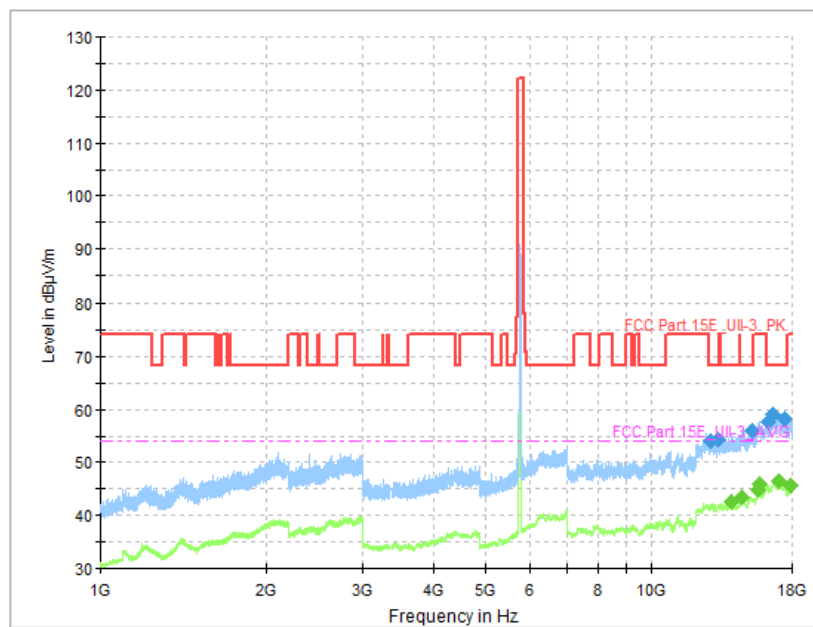


Fig. 82 Transmitter Spurious Emission (802. 11n-HT40, CH151 5755MHz, 1 GHz-18 GHz)

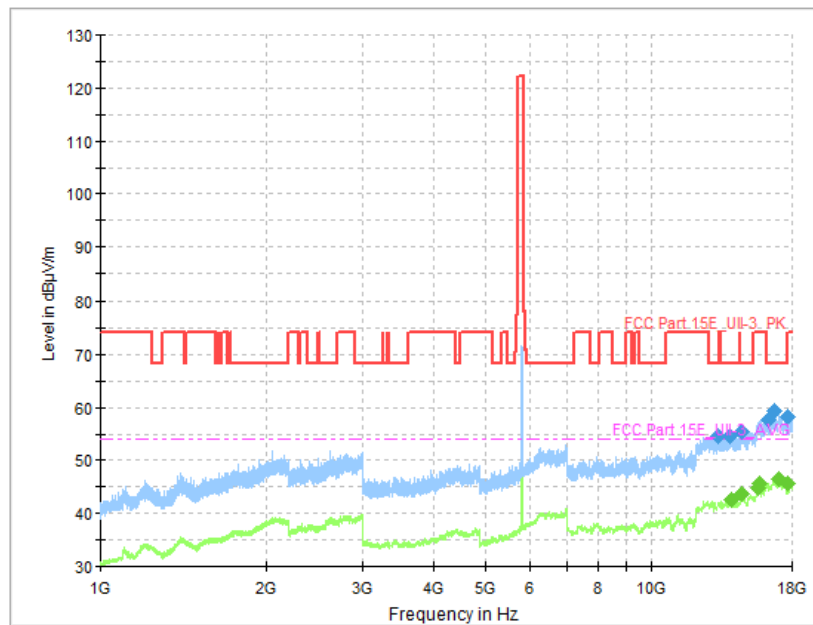


Fig. 83 Transmitter Spurious Emission (802. 11n-HT40, CH159 5795MHz, 1 GHz-18 GHz)

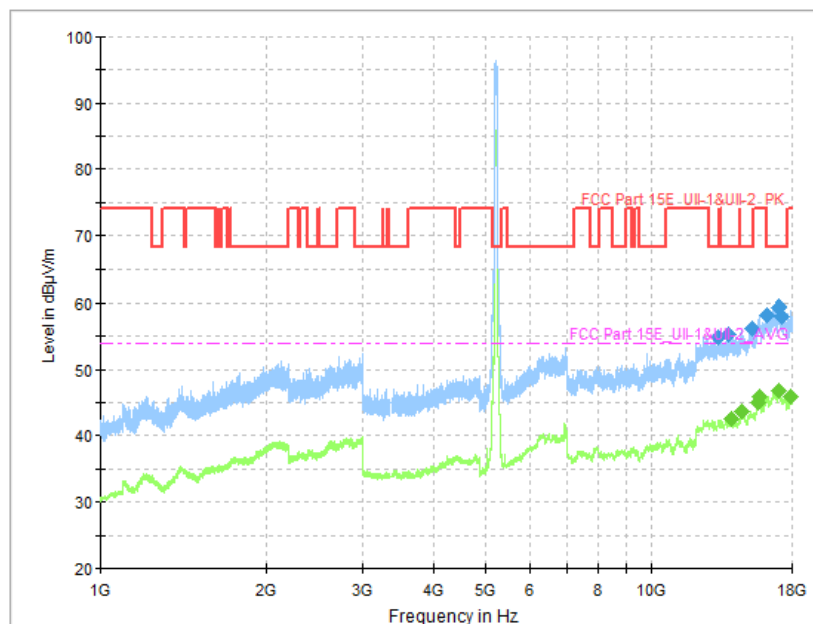


Fig. 84 Transmitter Spurious Emission (802. 11ac-VHT80, CH42 5210MHz, 1 GHz-18 GHz)

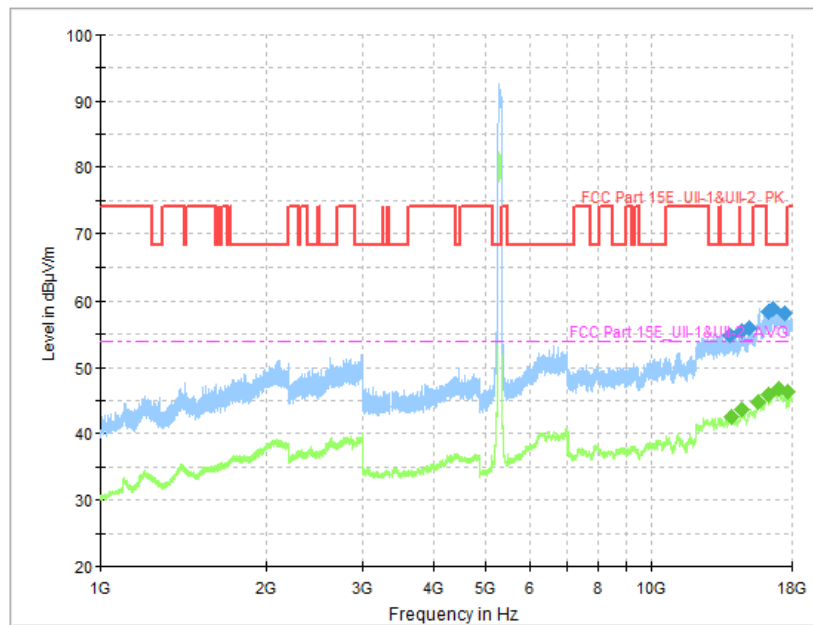


Fig. 85 Transmitter Spurious Emission (802.11ac-VHT80, CH58 5290MHz, 1 GHz-18 GHz)

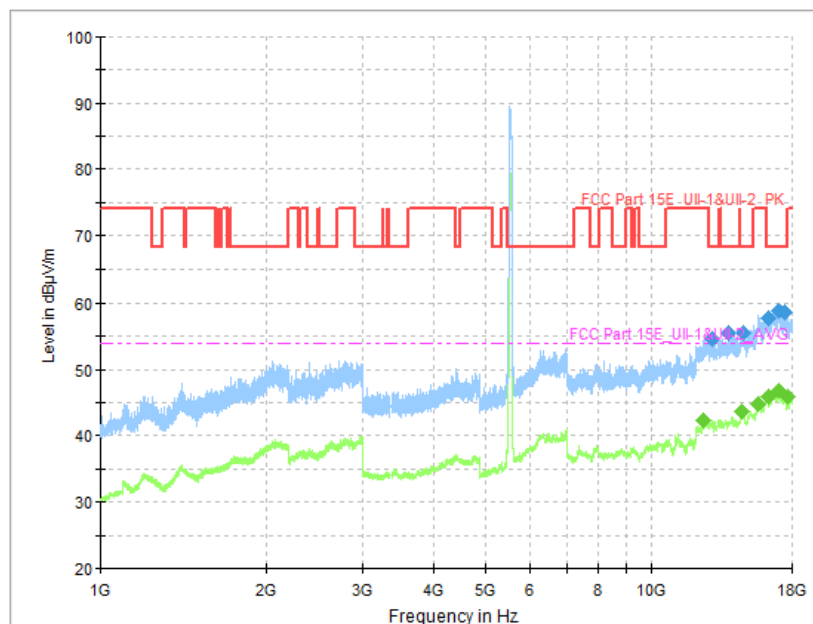


Fig. 86 Transmitter Spurious Emission (802.11ac-VHT80, CH106 5530MHz, 1 GHz-18 GHz)

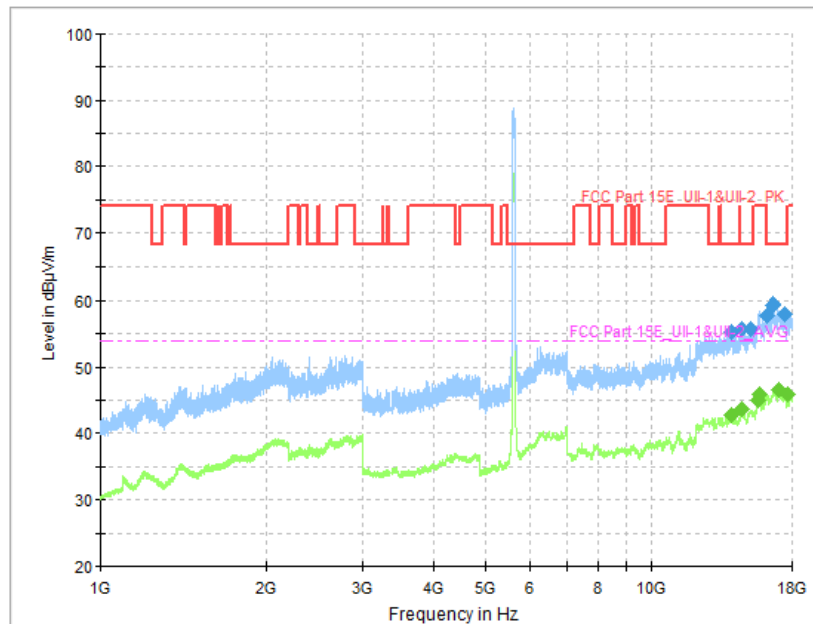


Fig. 87 Transmitter Spurious Emission (802.11ac-VHT80, CH122 5610MHz, 1 GHz-18 GHz)

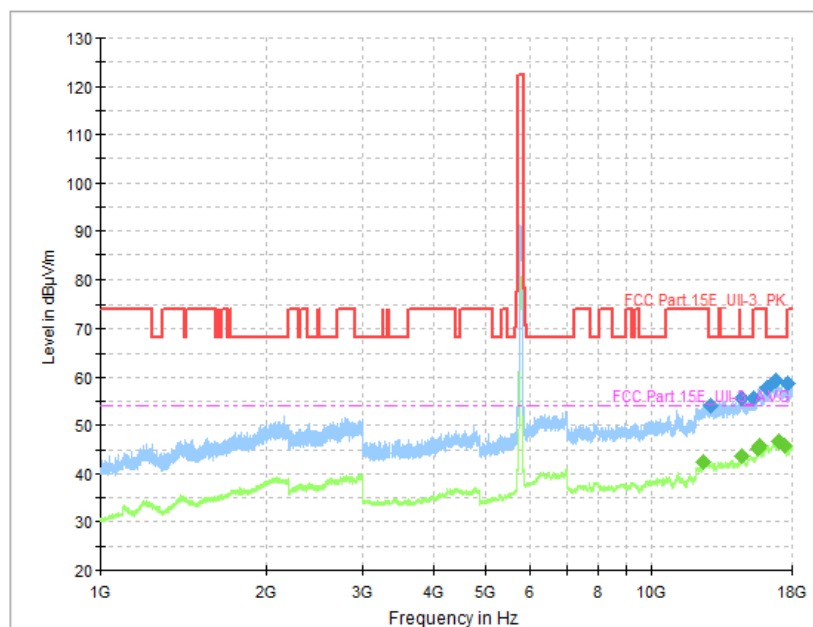


Fig. 88 Transmitter Spurious Emission (802.11ac-VHT80, CH155 5775MHz, 1 GHz-18 GHz)

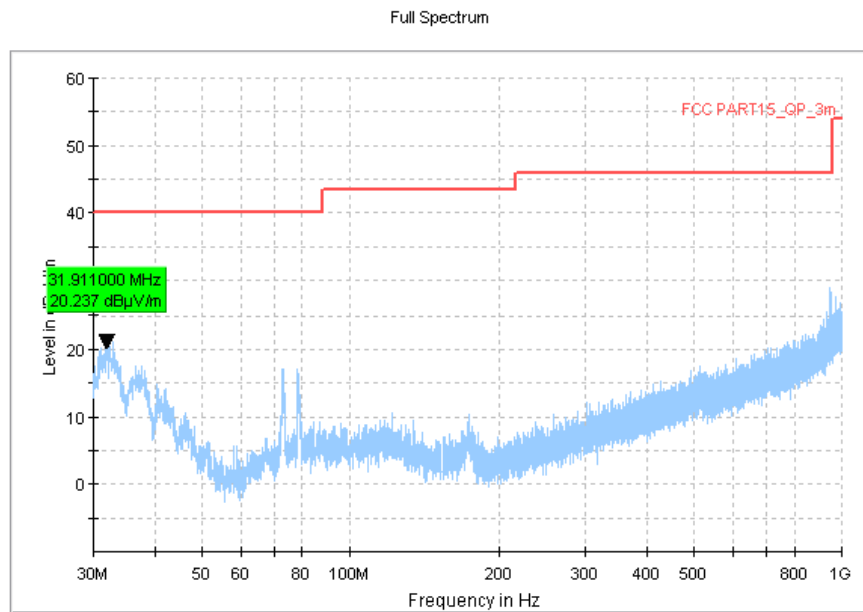


Fig. 89 Transmitter Spurious Emission (All channel, 30MHz~1GHz)

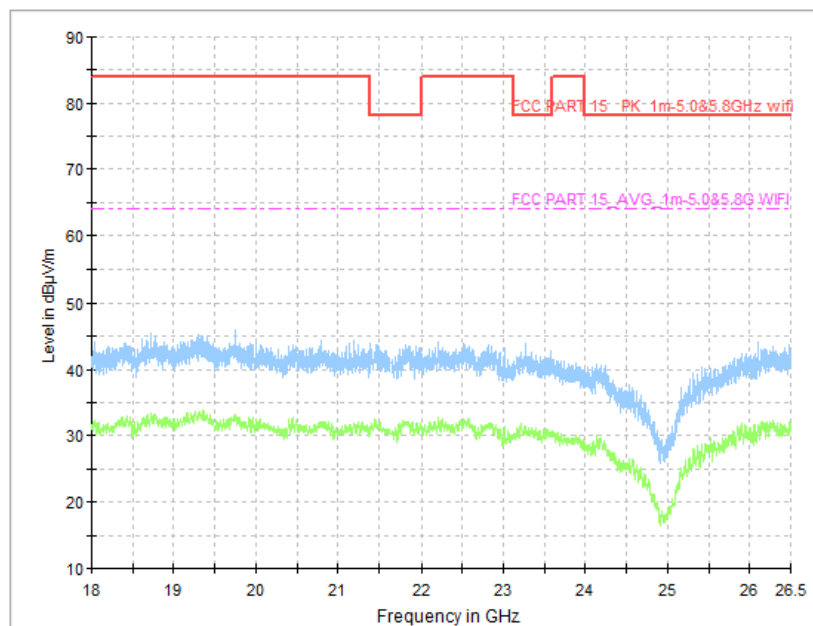


Fig. 90 Transmitter Spurious Emission (All channel, 18GHz~26.5GHz)

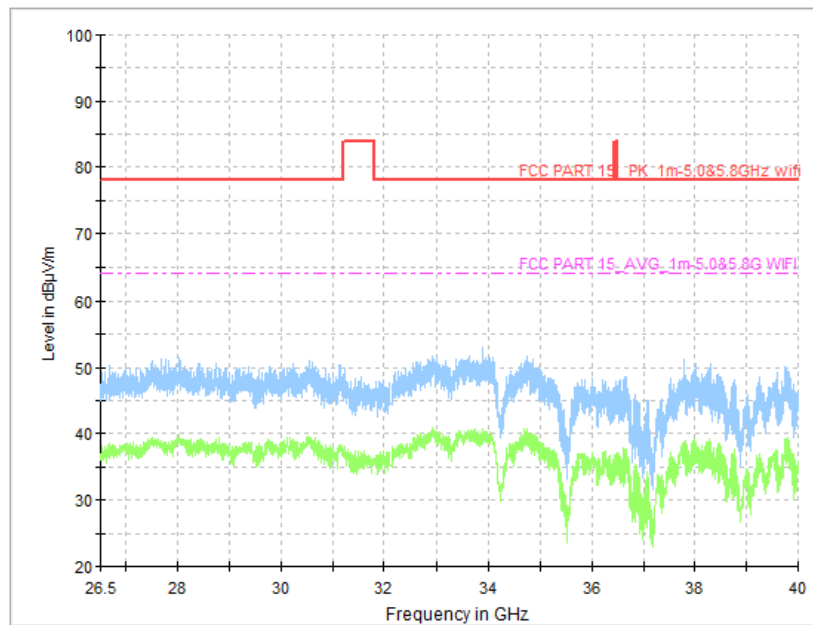


Fig. 91 Transmitter Spurious Emission (All channel, 26.5GHz~40GHz)

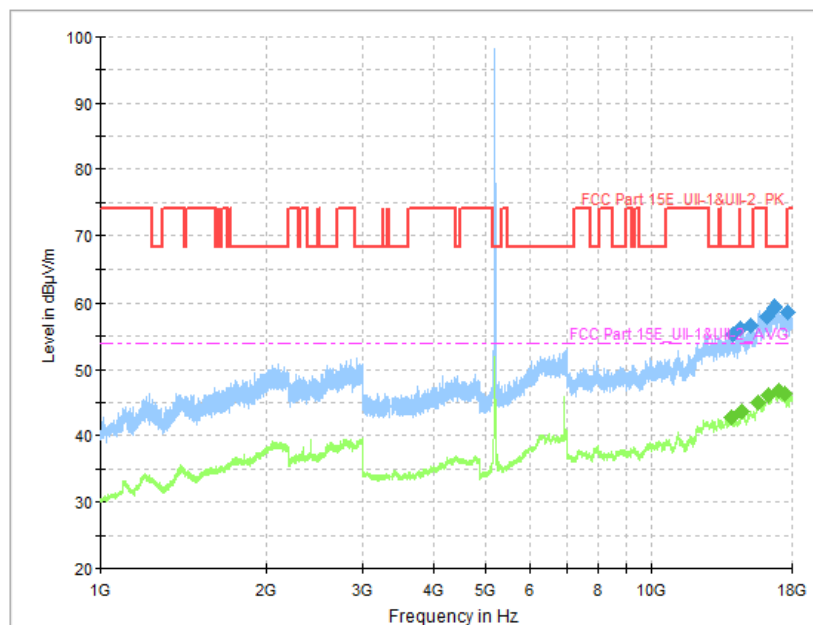


Fig. 92 Transmitter Spurious Emission (802.11n-HT20, CH36 5180MHz, 1 GHz-18 GHz, MIMO)

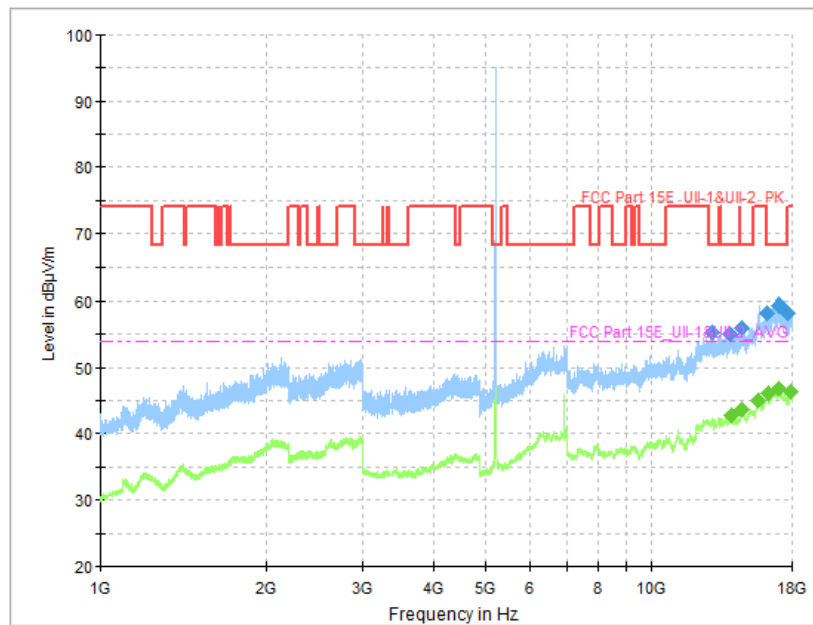


Fig. 93 Transmitter Spurious Emission (802. 11n-HT20, CH40 5200MHz, 1 GHz-18 GHz, MIMO)

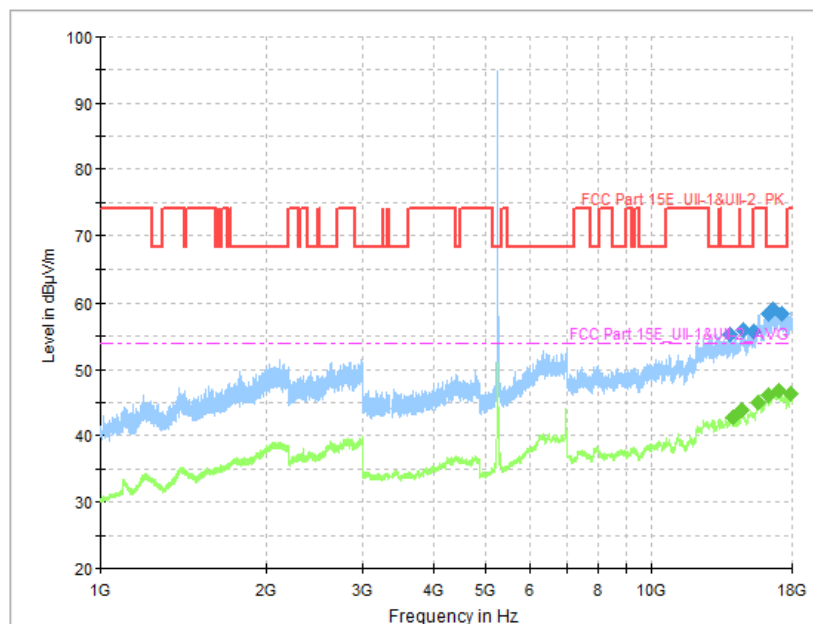


Fig. 94 Transmitter Spurious Emission (802. 11n-HT20, CH48 5240MHz, 1 GHz-18 GHz, MIMO)

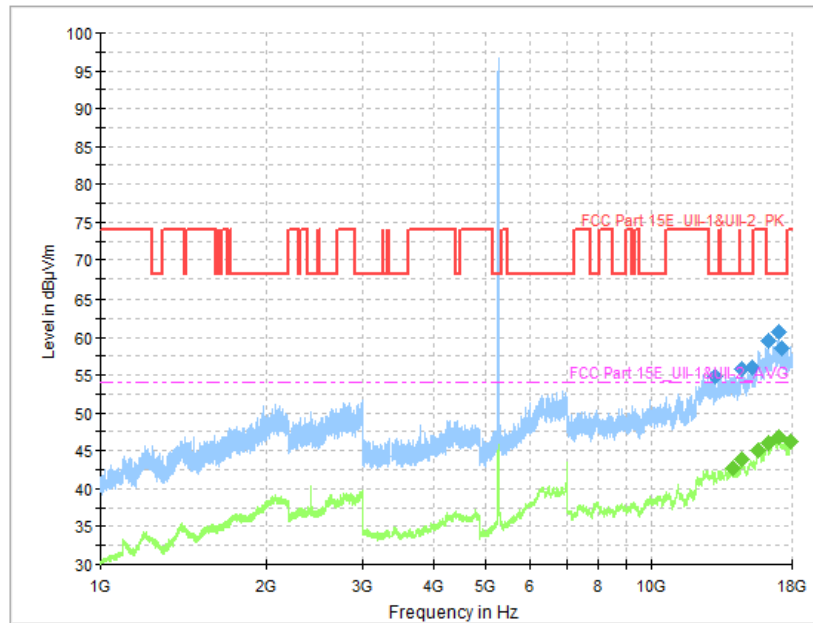


Fig. 95 Transmitter Spurious Emission (802. 11n-HT20, CH52 5260MHz, 1 GHz-18 GHz, MIMO)

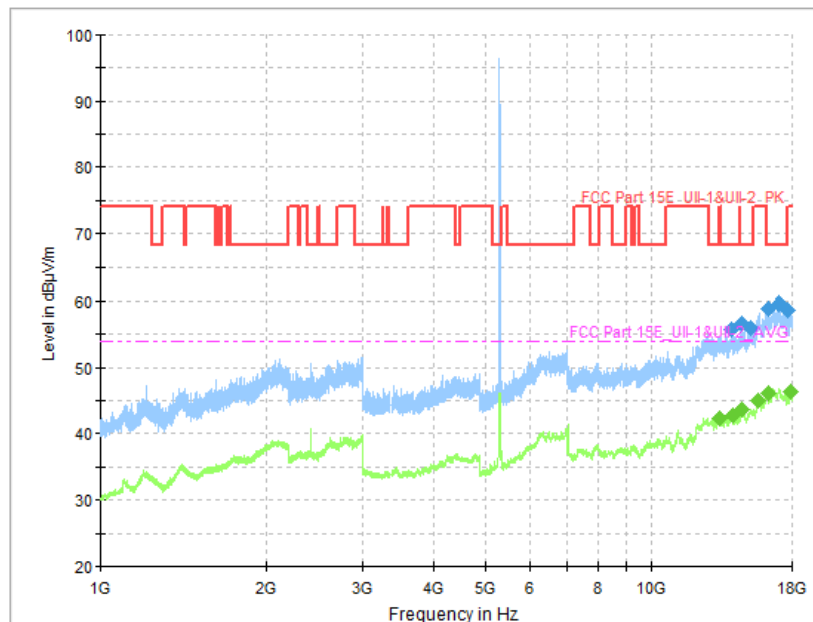


Fig. 96 Transmitter Spurious Emission (802. 11n-HT20, CH56 5280MHz, 1 GHz-18 GHz, MIMO)

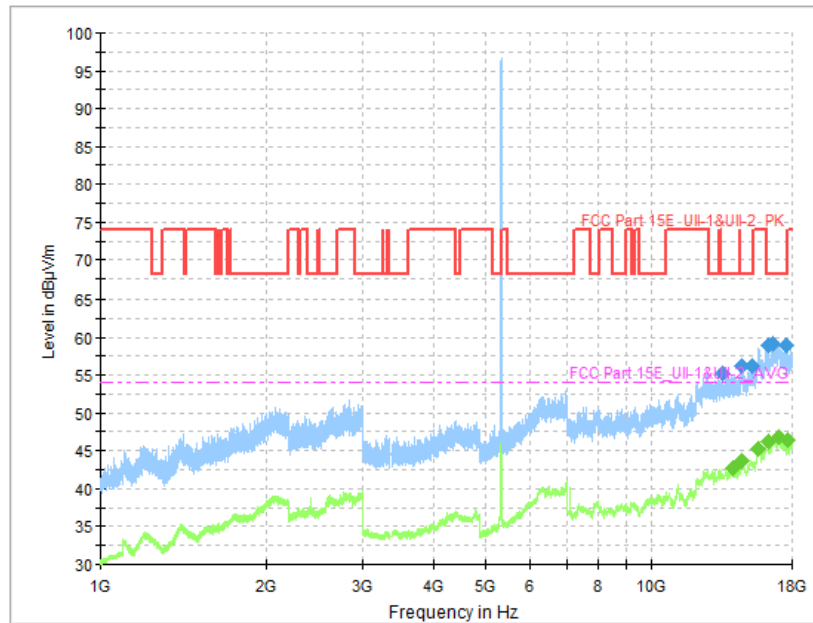


Fig. 97 Transmitter Spurious Emission (802. 11n-HT20, CH64 5320MHz, 1 GHz-18 GHz, MIMO)

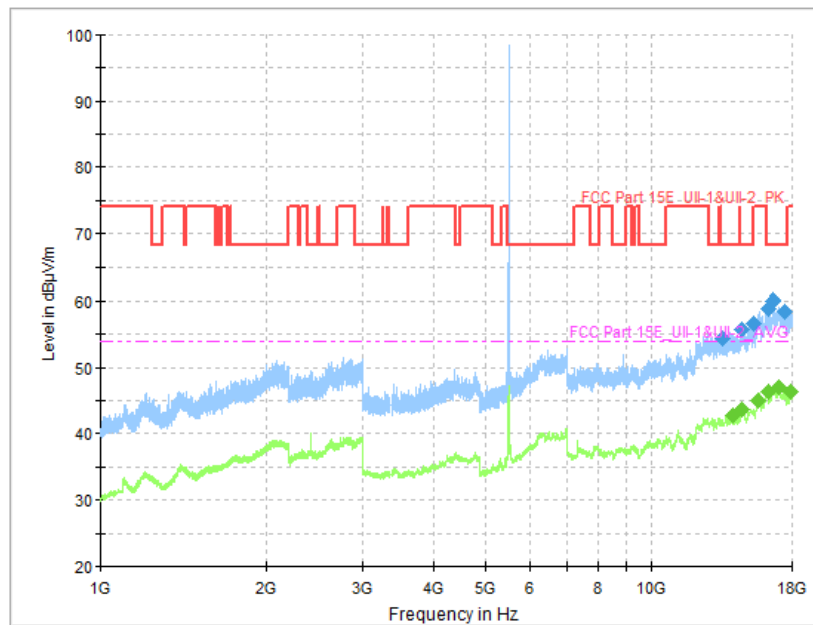


Fig. 98 Transmitter Spurious Emission (802. 11n-HT20, CH100 5500MHz, 1 GHz-18 GHz, MIMO)

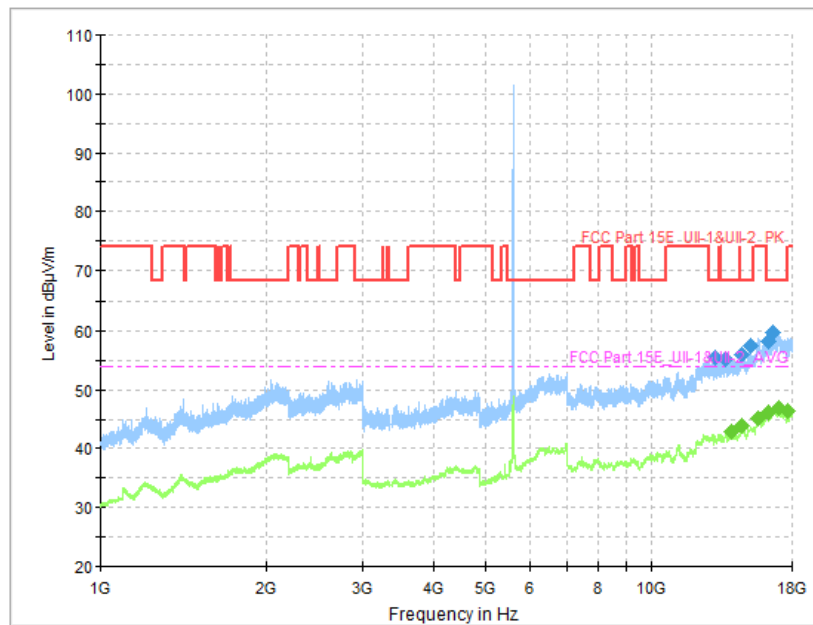


Fig. 99 Transmitter Spurious Emission (802. 11n-HT20, CH120 5600MHz, 1 GHz-18 GHz, MIMO)

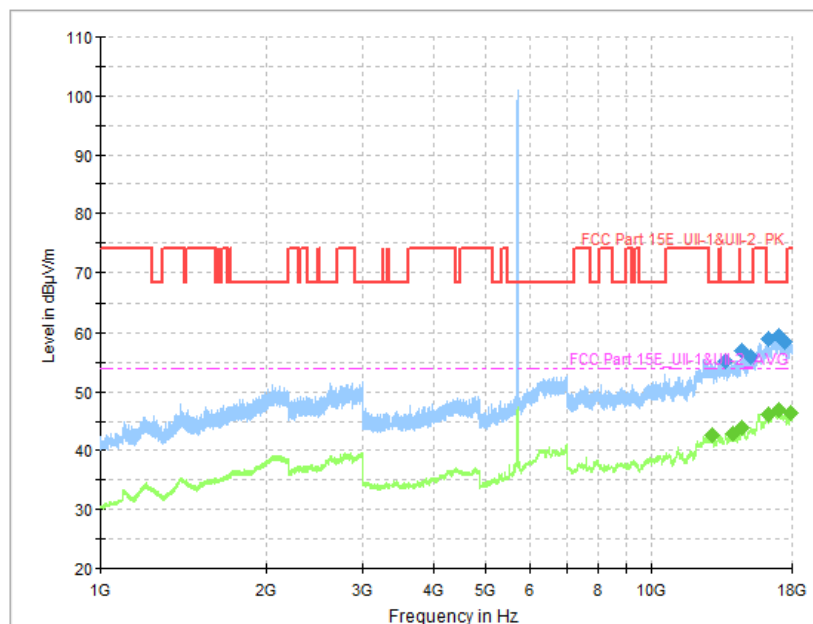


Fig. 100 Transmitter Spurious Emission (802. 11n-HT20, CH140 5700MHz, 1 GHz-18 GHz, MIMO)

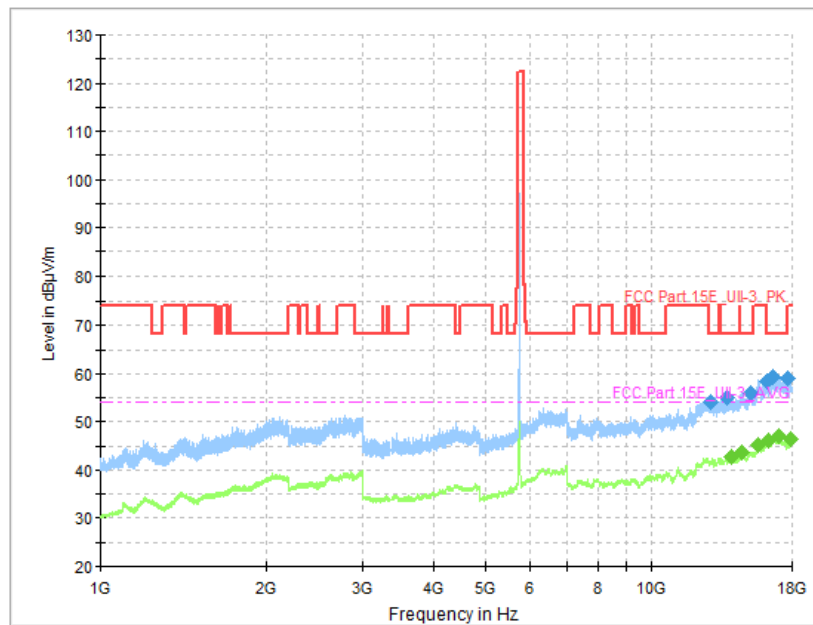


Fig. 101 Transmitter Spurious Emission (802. 11n-HT20, CH149 5745MHz, 1 GHz-18 GHz, MIMO)

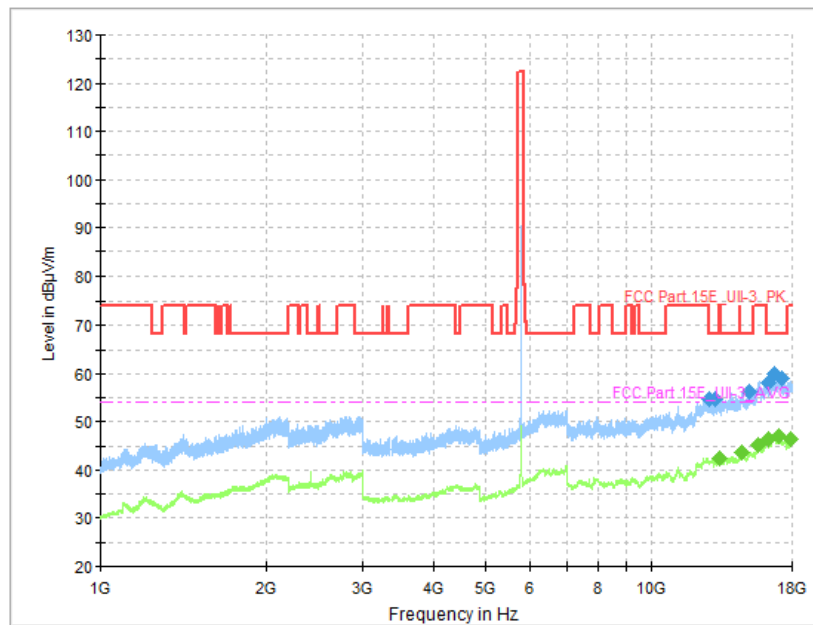


Fig. 102 Transmitter Spurious Emission (802. 11n-HT20, CH157 5785MHz, 1 GHz-18 GHz, MIMO)

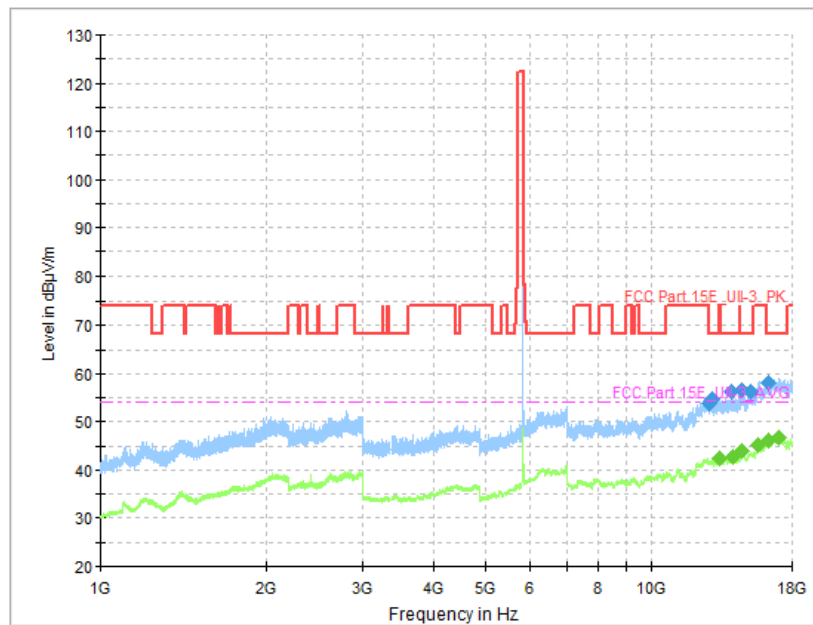


Fig. 103 Transmitter Spurious Emission (802.11n-HT20, CH165 5825MHz, 1 GHz-18 GHz, MIMO)

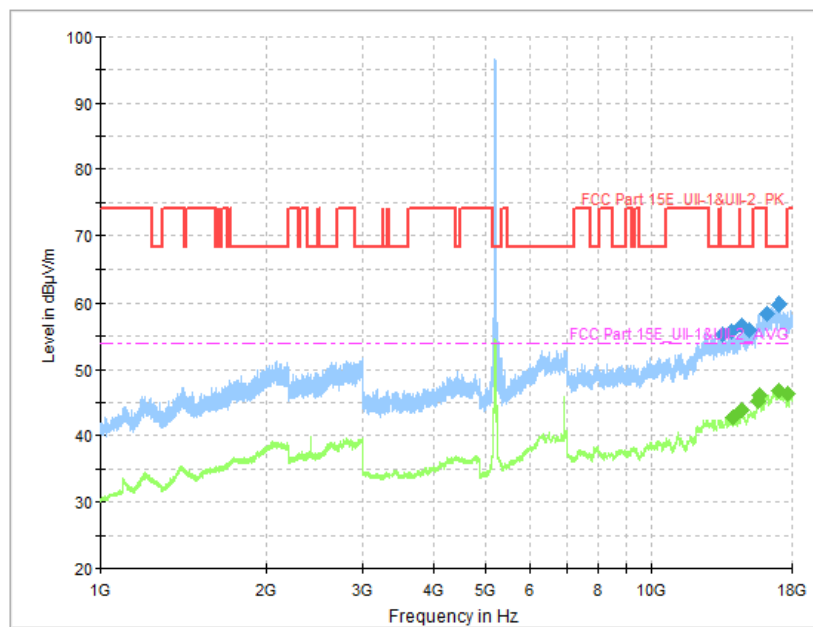


Fig. 104 Transmitter Spurious Emission (802.11n-HT40, CH38 5190MHz, 1 GHz-18 GHz, MIMO)

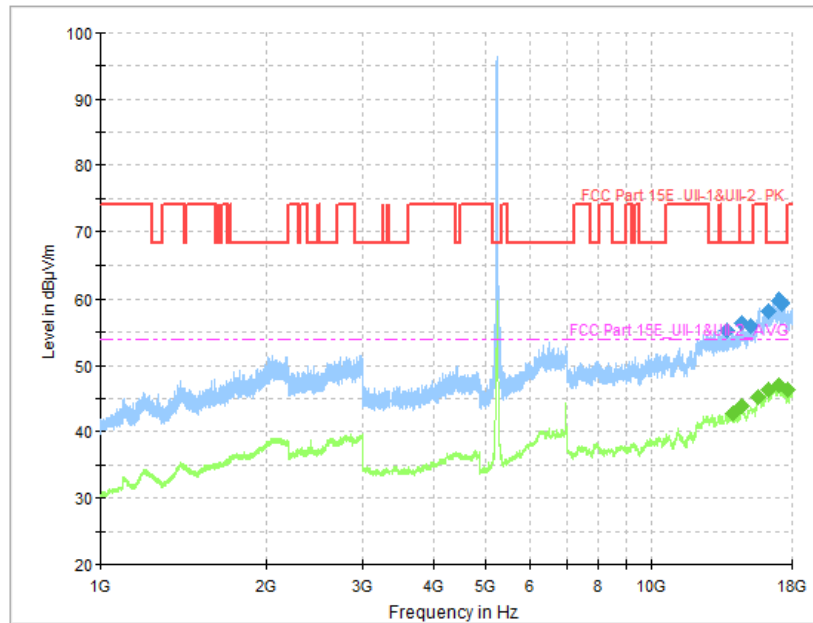


Fig. 105 Transmitter Spurious Emission (802.11n-HT40, CH46 5230MHz, 1 GHz-18 GHz, MIMO)

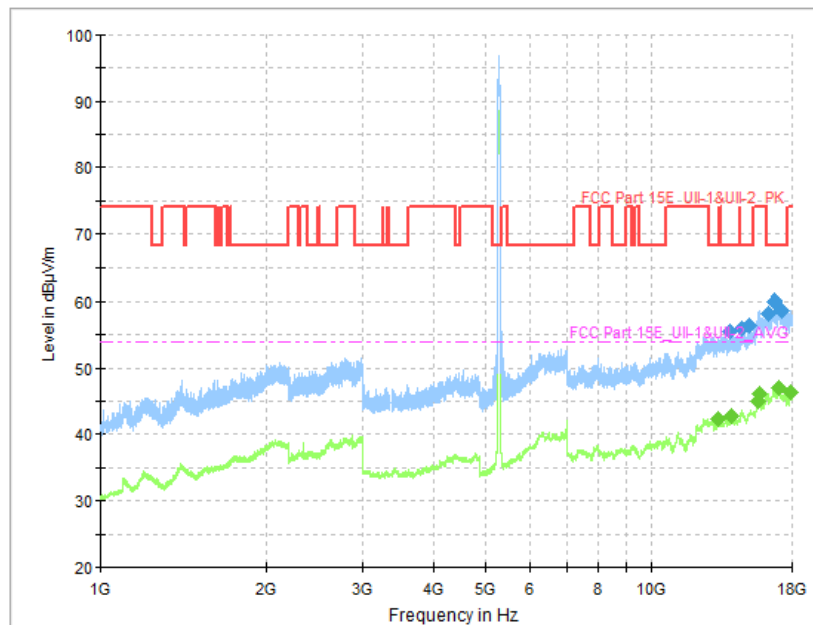


Fig. 106 Transmitter Spurious Emission (802.11n-HT40, CH54 5270MHz, 1 GHz-18 GHz, MIMO)

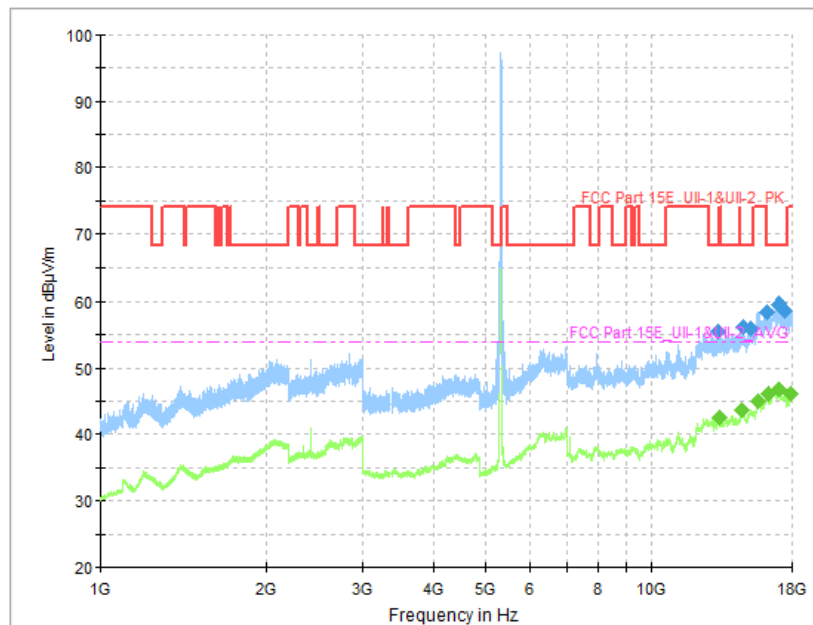


Fig. 107 Transmitter Spurious Emission (802.11n-HT40, CH62 5310MHz, 1 GHz-18 GHz, MIMO)

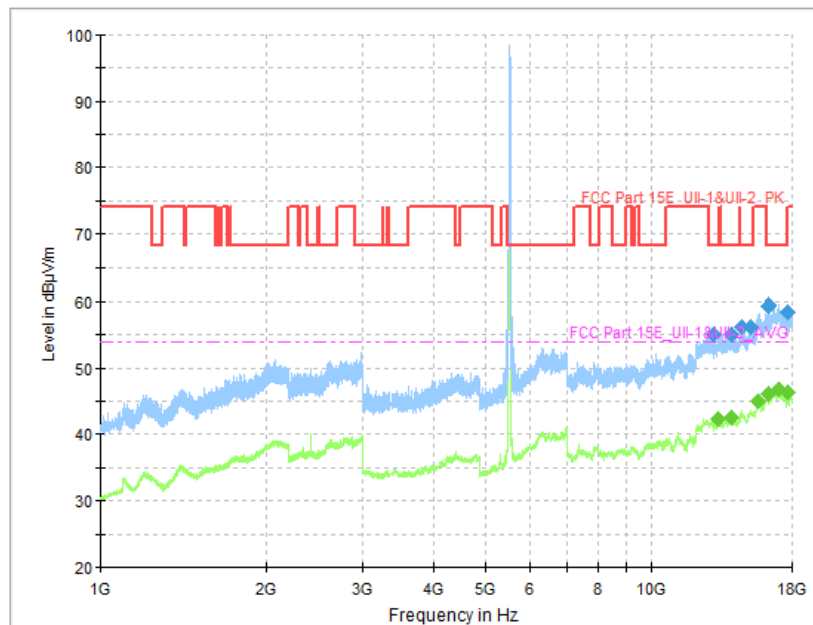


Fig. 108 Transmitter Spurious Emission (802.11n-HT40, CH102 5510MHz, 1 GHz-18 GHz, MIMO)

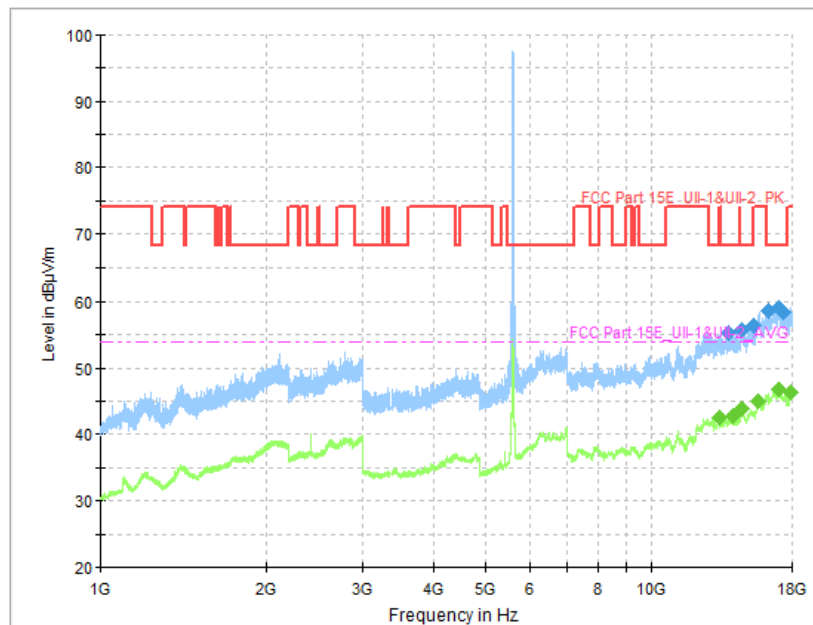


Fig. 109 Transmitter Spurious Emission (802.11n-HT40, CH118 5580MHz, 1 GHz-18 GHz, MIMO)

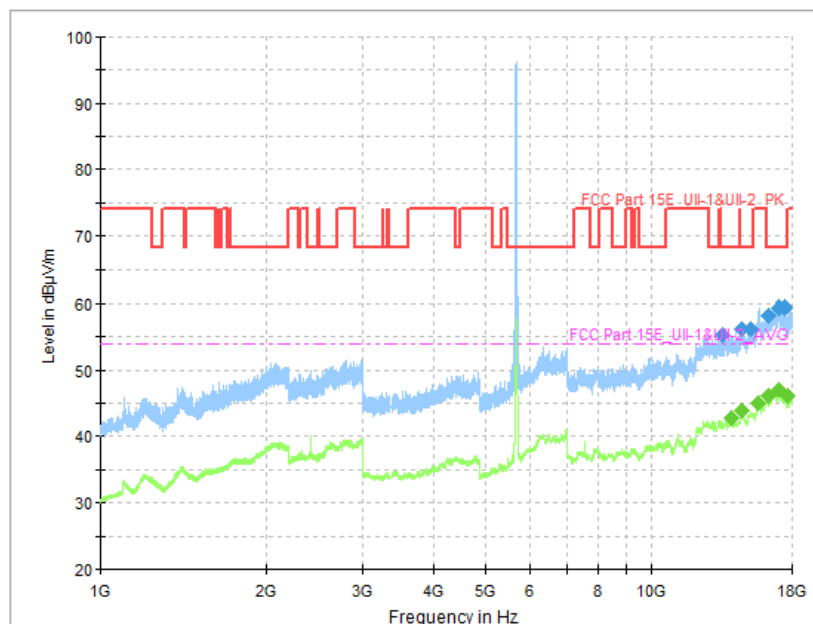


Fig. 110 Transmitter Spurious Emission (802.11n-HT40, CH134 5670MHz, 1 GHz-18 GHz, MIMO)

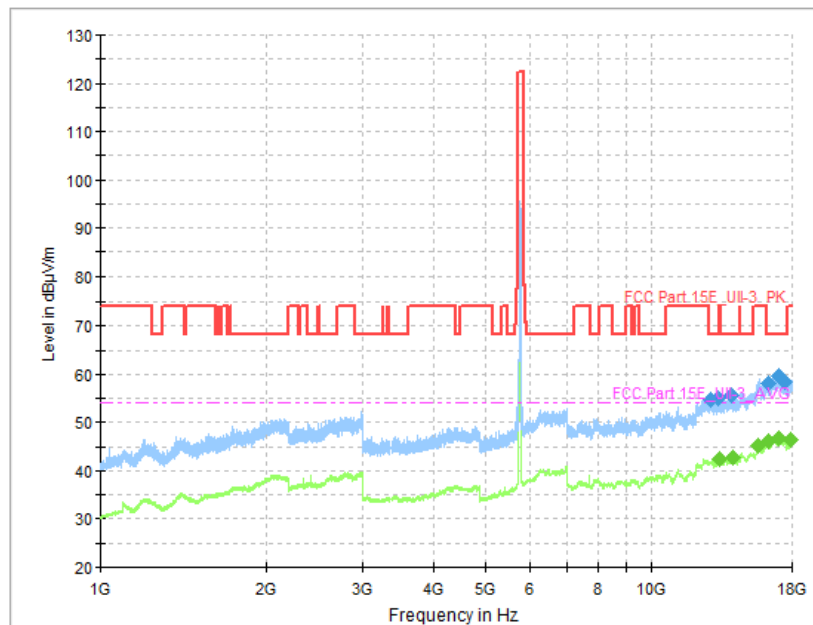


Fig. 111 Transmitter Spurious Emission (802. 11n-HT40, CH151 5755MHz, 1 GHz-18 GHz, MIMO)

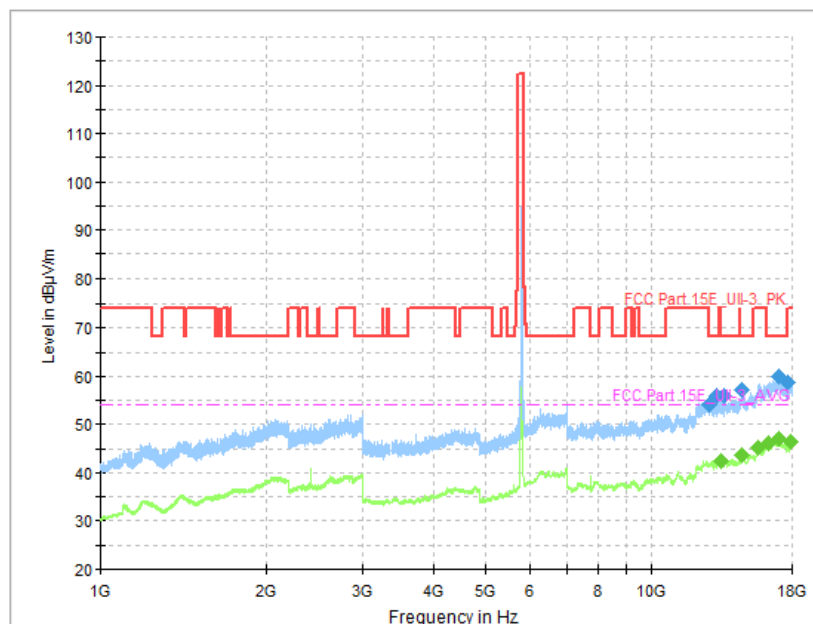


Fig. 112 Transmitter Spurious Emission (802. 11n-HT40, CH159 5795MHz, 1 GHz-18 GHz, MIMO)

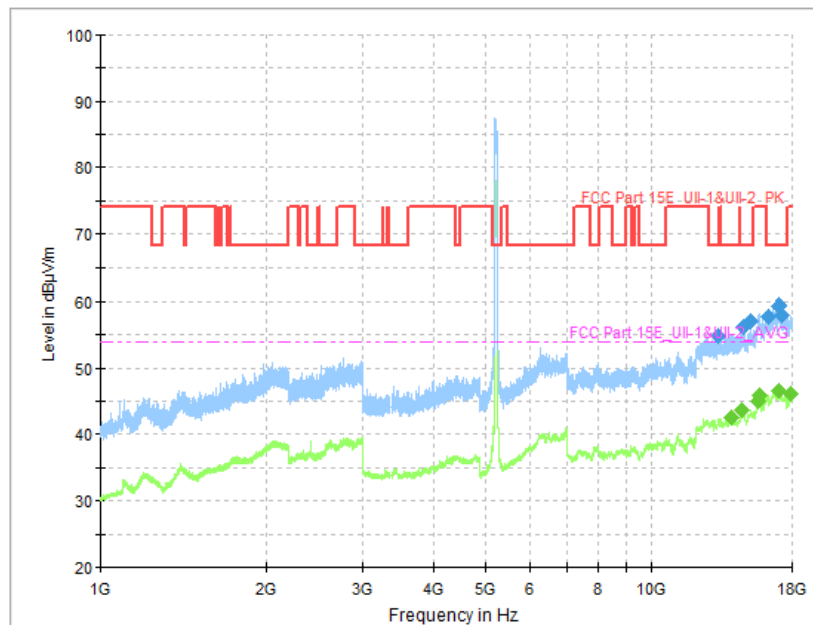


Fig. 113 Transmitter Spurious Emission (802. 11ac-VHT80, CH42 5210MHz, 1 GHz-18 GHz, MIMO)

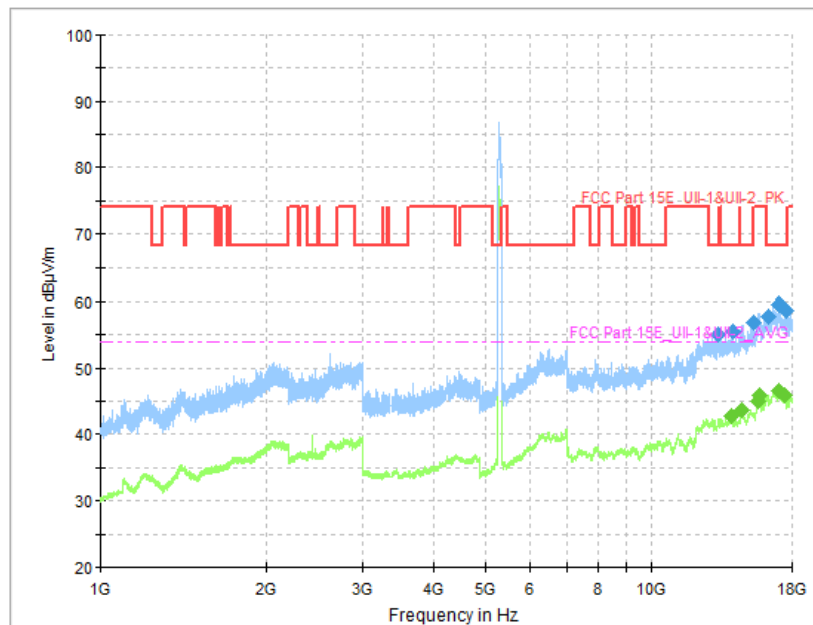


Fig. 114 Transmitter Spurious Emission (802. 11ac-VHT80, CH58 5290MHz, 1 GHz-18 GHz, MIMO)

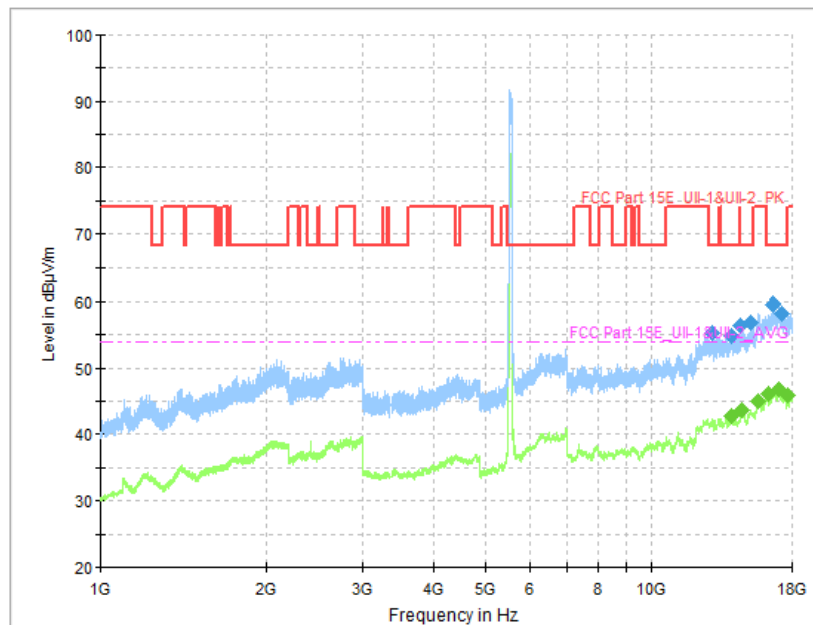


Fig. 115 Transmitter Spurious Emission (802.11ac-VHT80, CH106 5530MHz, 1 GHz-18 GHz, MIMO)

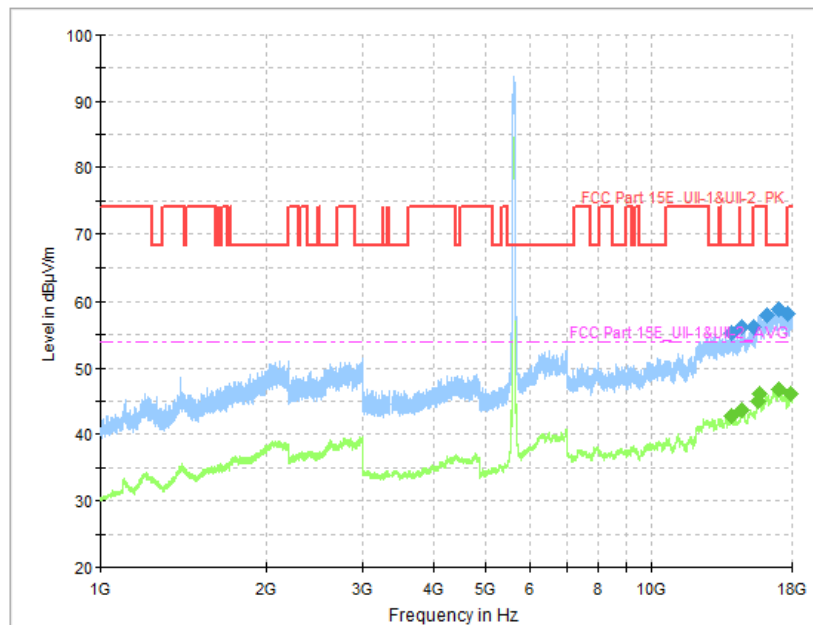


Fig. 116 Transmitter Spurious Emission (802.11ac-VHT80, CH122 5610MHz, 1 GHz-18 GHz, MIMO)

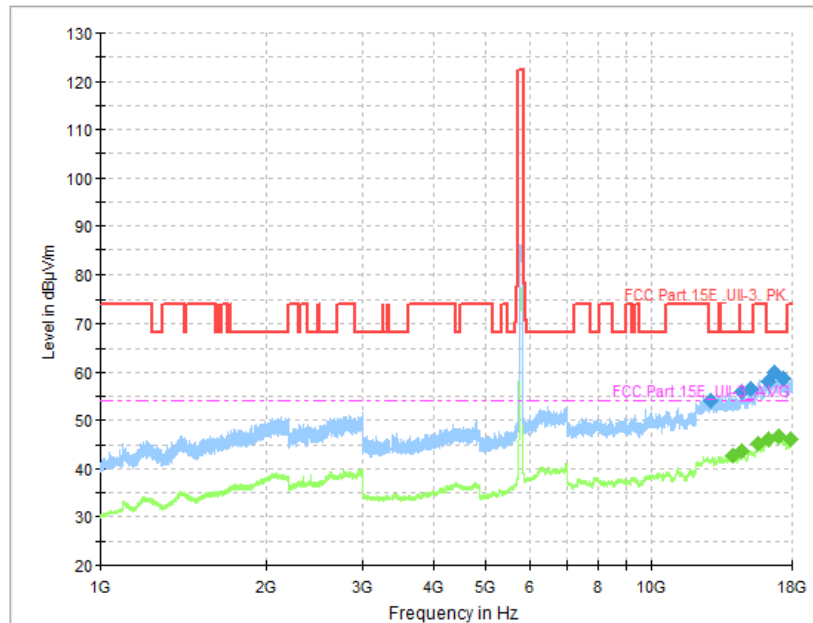


Fig. 117 Transmitter Spurious Emission (802.11ac-VHT80, CH155 5775MHz, 1 GHz-18 GHz, MIMO)

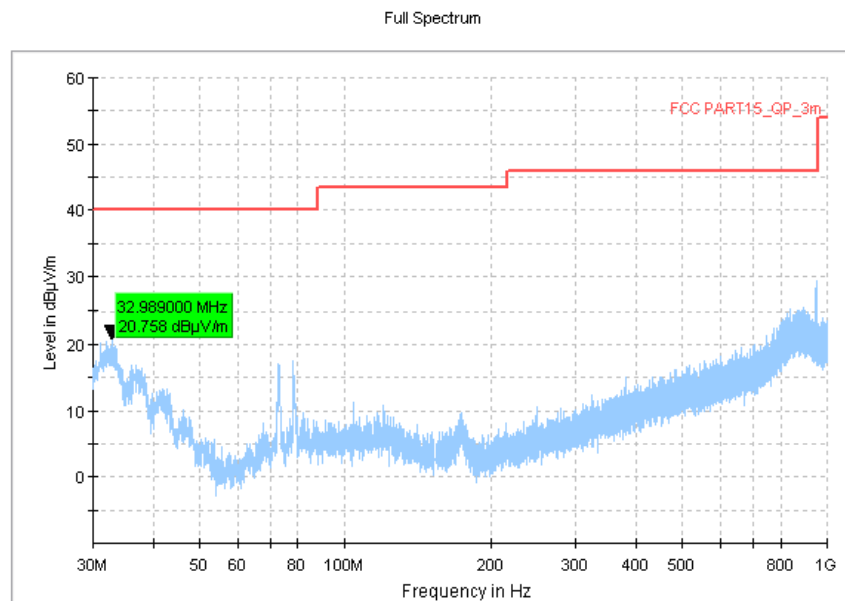


Fig. 118 Transmitter Spurious Emission (All channel, 30MHz~1GHz, MIMO)

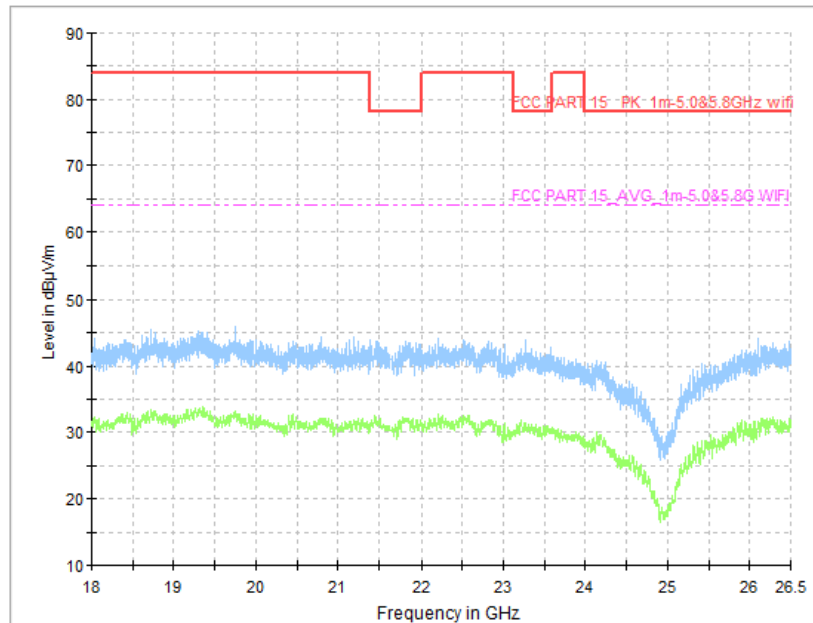


Fig. 119 Transmitter Spurious Emission (All channel, 18GHz~26.5GHz, MIMO)

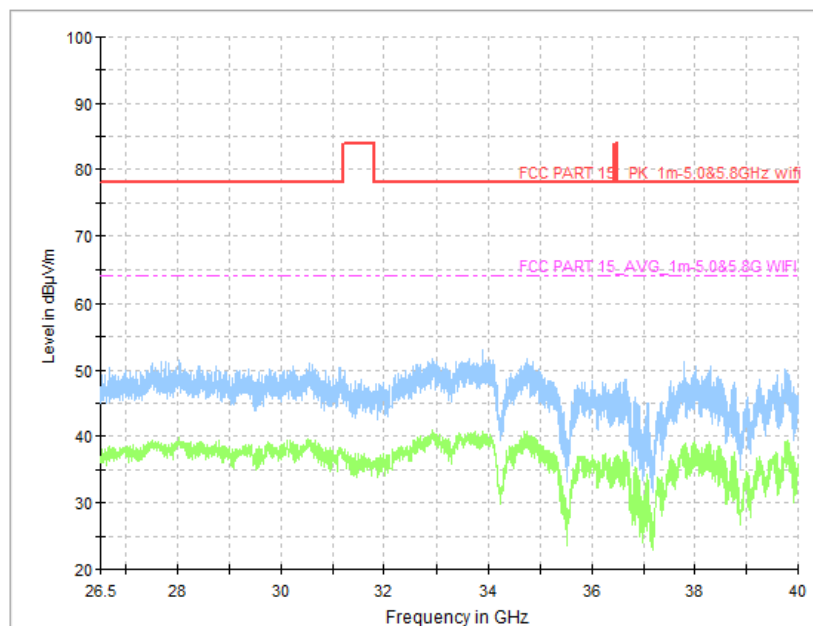


Fig. 120 Transmitter Spurious Emission (All channel, 26.5GHz~40GHz, MIMO)

A.9. Radiated Spurious Emissions < 30MHz

Measurement Limit (15.209, 9 kHz-30MHz):

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

The measurement is made according to KDB 789033.

Note: The measurement distance during the test is 3m. The limit used in plots recalculated based on the extrapolation factor of 40 dB/decade.

Measurement Result (Worst case):

SISO:

Mode	Frequency Range	Test Results	Conclusion
All Channel	9 kHz ~30 MHz	Fig.121	P

MIMO:

Mode	Frequency Range	Test Results	Conclusion
All Channel	9 kHz ~30 MHz	Fig.122	P

Conclusion: PASS

Test graphs as below:

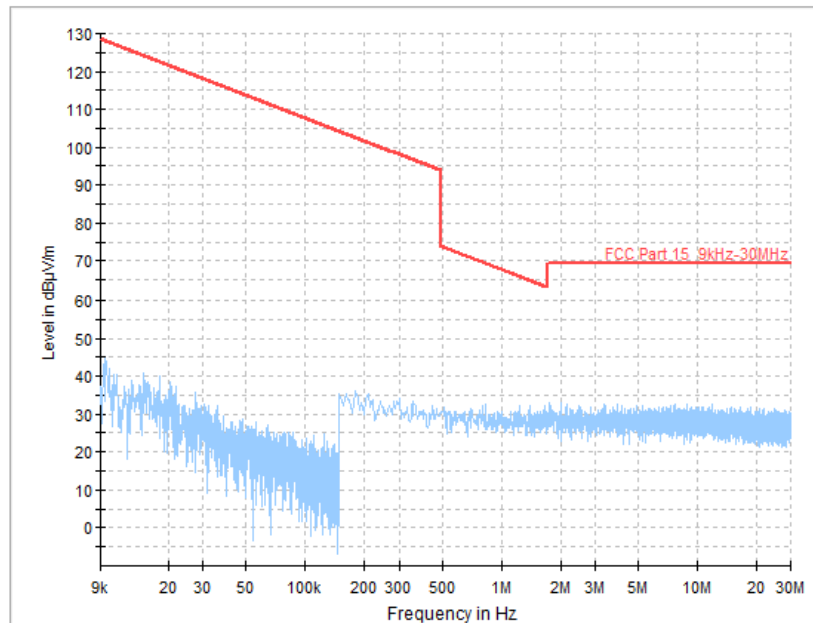


Fig. 121 Radiated Spurious Emission (All Channel, 9 kHz ~30 MHz)

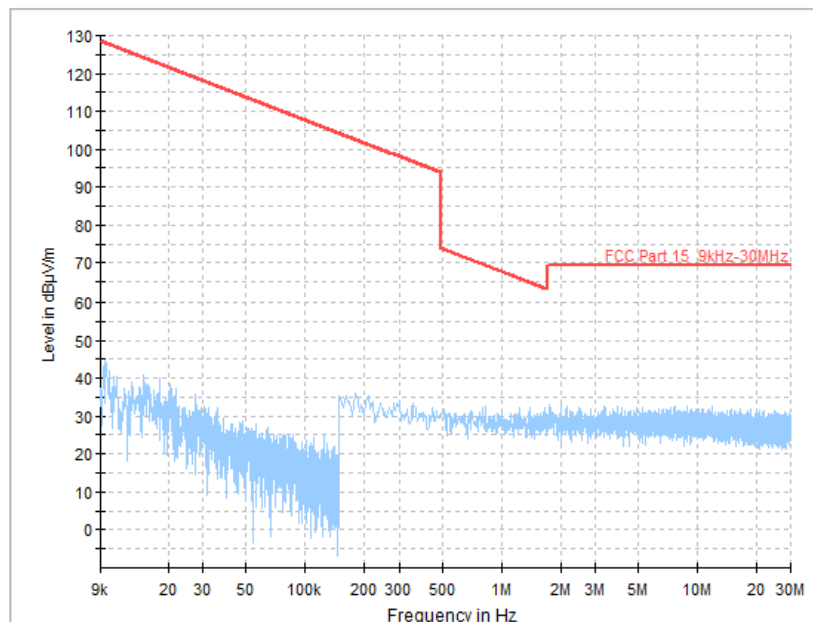


Fig. 122 Radiated Spurious Emission (All Channel, 9 kHz ~30 MHz, MIMO)

A.10. AC Power Line Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

RLAN (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.123	Fig.124	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.

RLAN (Average Limit)-AE1

Frequency range (MHz)	Average-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig.123	Fig.124	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.

Note: The measurement results include the L1 and N measurements.

Conclusion: PASS

Test graphs as below:

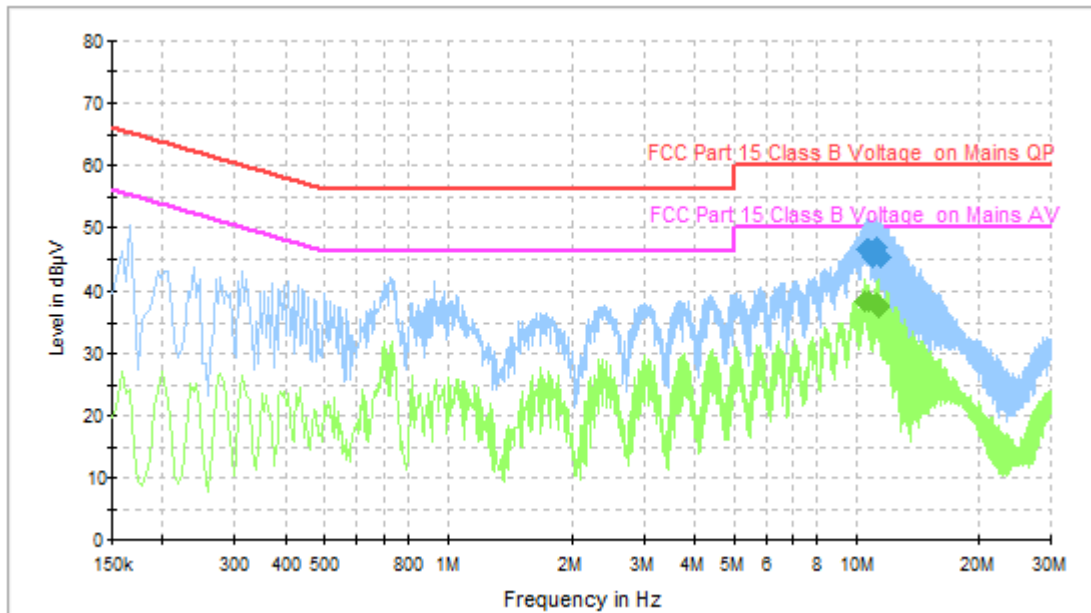


Fig. 123 AC Power line Conducted Emission (802.11a, 120V)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
10.634000	46.6	60.0	13.4	N	9.8
10.674000	46.4	60.0	13.6	N	9.8
10.742000	46.1	60.0	13.9	N	9.8
10.970000	45.3	60.0	14.7	N	9.8
11.214000	46.8	60.0	13.2	N	9.9
11.486000	45.2	60.0	14.8	N	9.9

Measurement Result: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
10.466000	38.5	50.0	11.5	N	9.8
10.650000	38.5	50.0	11.5	N	9.8
11.254000	38.1	50.0	11.9	N	9.9
11.262000	38.1	50.0	11.9	N	9.9
11.270000	37.7	50.0	12.3	N	9.9
11.354000	37.3	50.0	12.7	N	9.9

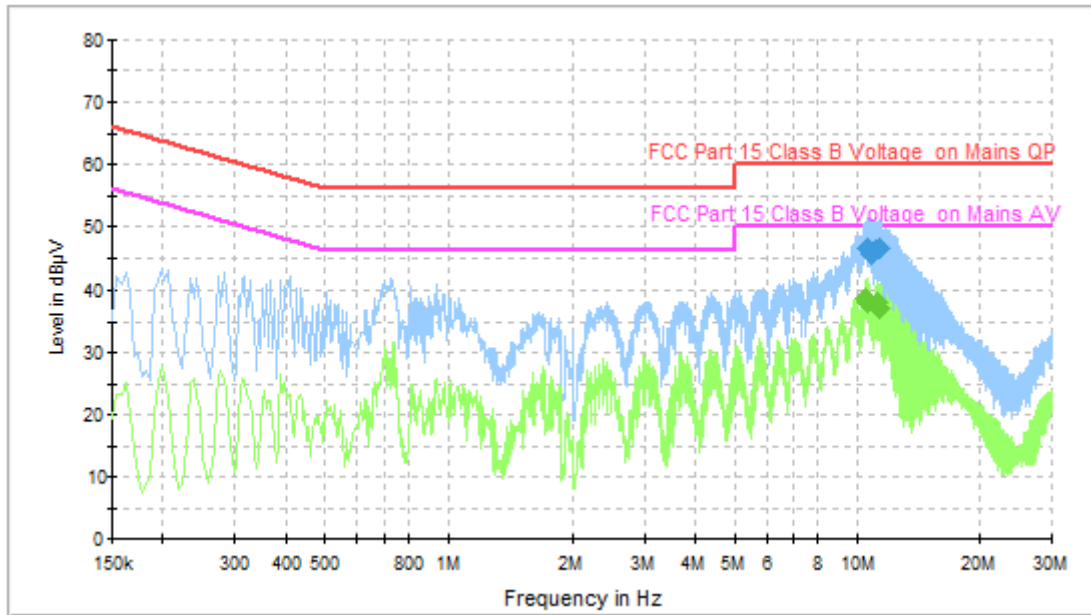


Fig. 124 AC Power line Conducted Emission (Idle, 120V)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
10.578000	46.3	60.0	13.7	N	9.8
10.722000	46.0	60.0	14.0	N	9.8
10.874000	45.6	60.0	14.4	N	9.9
10.990000	45.7	60.0	14.3	N	9.8
11.050000	46.1	60.0	13.9	N	9.8
11.282000	46.6	60.0	13.4	N	9.9

Measurement Result: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
10.478000	38.8	50.0	11.2	N	9.8
10.646000	37.9	50.0	12.1	N	9.8
11.250000	38.0	50.0	12.0	N	9.9
11.258000	38.0	50.0	12.0	N	9.9
11.266000	37.9	50.0	12.1	N	9.9
11.334000	37.2	50.0	12.8	N	9.9



A.11. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500mW).

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