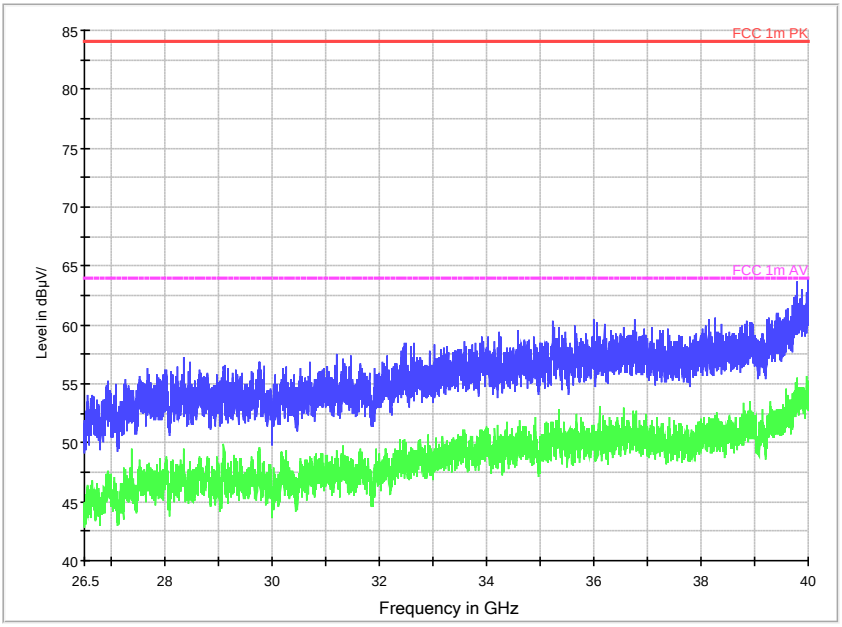


Fig. 128 Radiated Spurious Emission (802.11ac-HT40, ch54, 26.5 GHz-40 GHz)

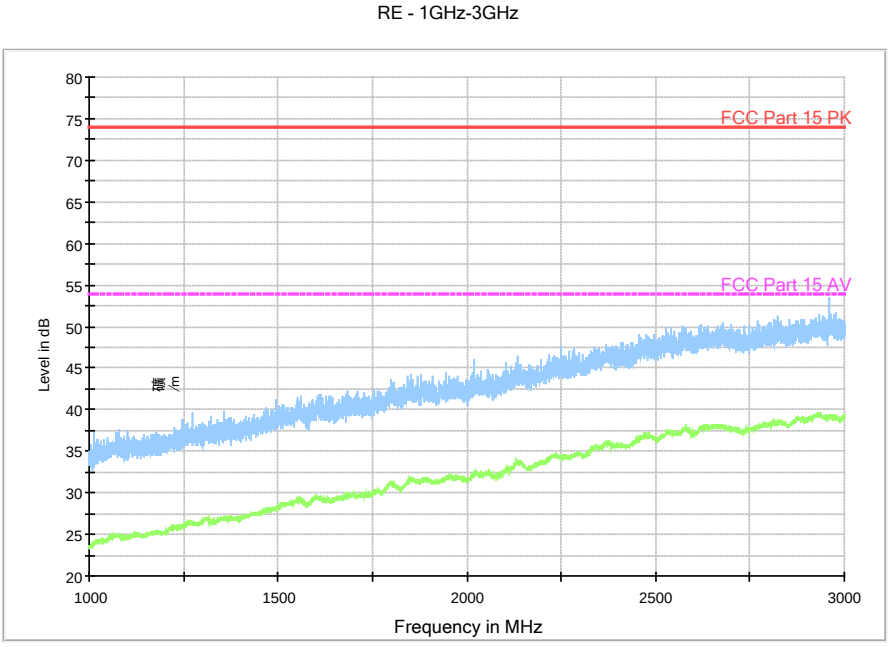
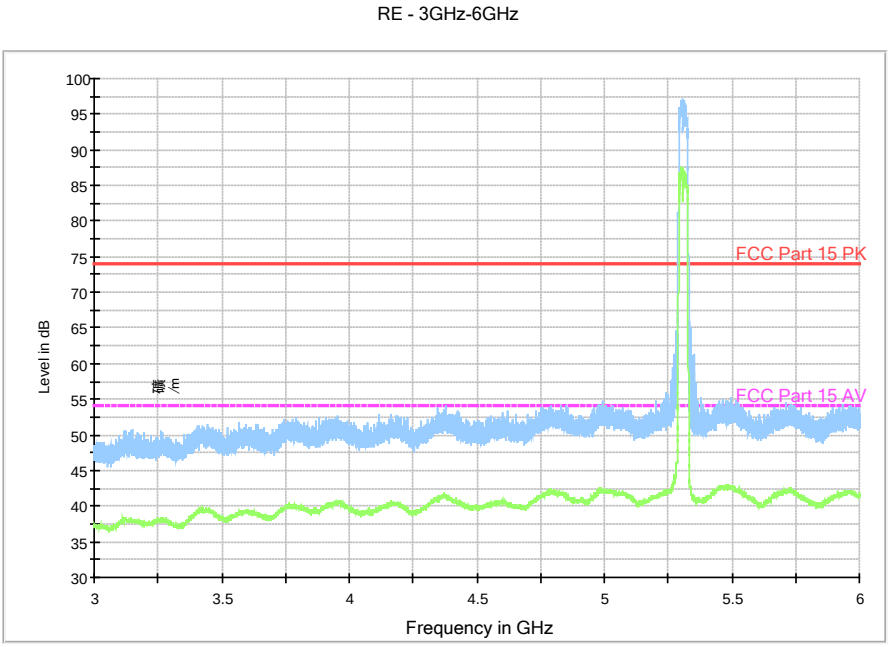


Fig. 129 Radiated Spurious Emission (802.11ac-HT40, ch62, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 130 Radiated Spurious Emission (802.11ac-HT40, ch62, 3GHz-6 GHz)

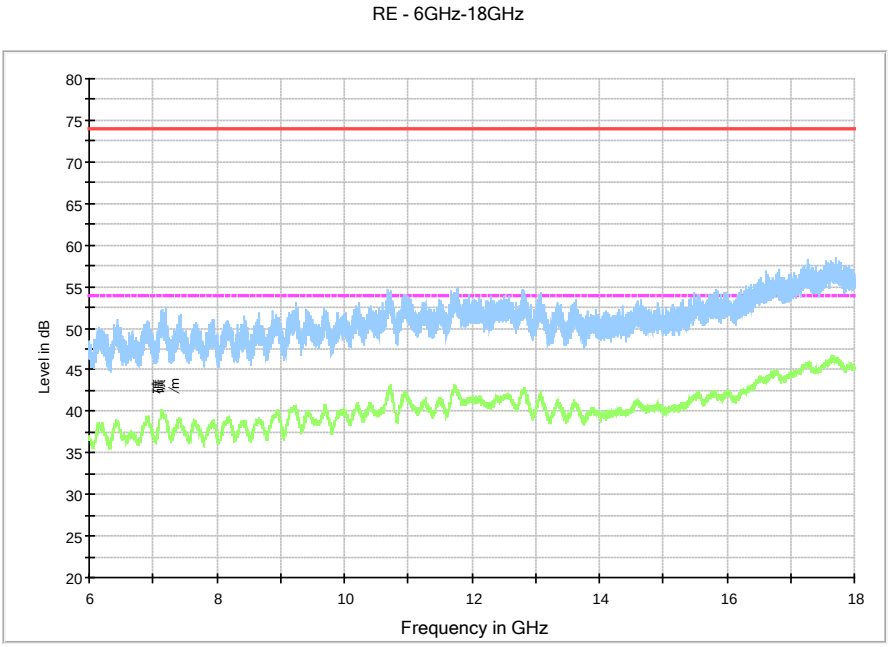


Fig. 131 Radiated Spurious Emission (802.11ac-HT40, ch62, 6 GHz-18 GHz)

5GHz U-NII 2C

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	100(5500MHz)	1 GHz ~ 3GHz	Fig.132	P
		3GHz ~ 6GHz	Fig.133	P
		6 GHz ~ 18 GHz	Fig.134	P
	120(5600MHz)	30 MHz ~1 GHz	Fig.135	P
		1 GHz ~ 6 GHz	Fig.136	P
		3GHz ~ 6GHz	Fig.137	P
		6 GHz ~ 18 GHz	Fig.138	P
		18 GHz ~ 26.5 GHz	Fig.139	P
		26.5 GHz ~ 40 GHz	Fig.140	P
	140(5700MHz)	1 GHz ~ 6 GHz	Fig.141	P
		3GHz ~ 6GHz	Fig.142	P
		6 GHz ~ 18 GHz	Fig.143	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n -HT20	100(5500MHz)	1 GHz ~ 3GHz	Fig.144	P
		3GHz ~ 6GHz	Fig.145	P
		6 GHz ~ 18 GHz	Fig.146	P
	120(5600MHz)	30 MHz ~1 GHz	Fig.147	P
		1 GHz ~ 6 GHz	Fig.148	P
		3GHz ~ 6GHz	Fig.149	P
		6 GHz ~ 18 GHz	Fig.150	P
		18 GHz ~ 26.5 GHz	Fig.151	P
		26.5 GHz ~ 40 GHz	Fig.152	P
	140(5700MHz)	1 GHz ~ 6 GHz	Fig.153	P
		3GHz ~ 6GHz	Fig.154	P
		6 GHz ~ 18 GHz	Fig.155	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n HT40	102(5510MHz)	1 GHz ~ 3GHz	Fig.156	P
		3GHz ~ 6GHz	Fig.157	P
		6 GHz ~ 18 GHz	Fig.158	P
	118(5590MHz)	30 MHz ~1 GHz	Fig.159	P
		1 GHz ~ 6 GHz	Fig.160	P
		3GHz ~ 6GHz	Fig.161	P
		6 GHz ~ 18 GHz	Fig.162	P
		18 GHz ~ 26.5 GHz	Fig.163	P
		26.5 GHz ~ 40 GHz	Fig.164	P
	134(5670MHz)	1 GHz ~ 6 GHz	Fig.165	P
		3GHz ~ 6GHz	Fig.166	P
		6 GHz ~ 18 GHz	Fig.167	P

802.11ac-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac -HT20	100(5500MHz)	1 GHz ~3GHz	Fig.168	P
		3GHz ~ 6GHz	Fig.169	P
		6 GHz ~ 18GHz	Fig.170	P
	120(5600MHz)	30 MHz ~1GHz	Fig.171	P
		1 GHz ~ 3GHz	Fig.172	P
		3GHz ~ 6GHz	Fig.173	P
		6 GHz ~ 18GHz	Fig.174	P
		18 GHz ~ 26.5 GHz	Fig.175	P
		26.5 GHz ~ 40 GHz	Fig.176	P
	140(5700MHz)	1 GHz ~ 3 GHz	Fig.177	P
		3GHz ~ 6GHz	Fig.178	P
		6 GHz ~ 18 GHz	Fig.179	P

802.11ac-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac HT40	102(5510MHz)	1 GHz ~ 3GHz	Fig.180	P
		3GHz ~ 6GHz	Fig.181	P
		6 GHz ~ 18 GHz	Fig.182	P
	118(5590MHz)	30 MHz ~1 GHz	Fig.183	P
		1 GHz ~ 6 GHz	Fig.184	P
		3GHz ~ 6GHz	Fig.185	P
		6 GHz ~ 18 GHz	Fig.186	P
		18 GHz ~ 26.5 GHz	Fig.187	P
		26.5 GHz ~ 40 GHz	Fig.188	P
	134(5670MHz)	1 GHz ~ 6 GHz	Fig.189	P
		3GHz ~ 6GHz	Fig.190	P
		6 GHz ~ 18 GHz	Fig.191	P

Conclusion: PASS

Note:

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

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

The measurement results are obtained as described below:

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

5GHz U-NII 2C

802.11a

Channel 100

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5460.000	43.5	-16.9	34.4	26.015	H
17631.000	46.6	-14.9	41.2	20.318	H
17703.000	46.6	-13.0	41.2	18.405	H
17687.400	46.6	-13.0	41.2	18.405	H
17670.000	46.5	-13.0	41.2	18.305	H
17632.200	46.5	-14.9	41.2	20.218	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5457.660	56.8	-16.9	34.4	39.315	V
17707.200	58.4	-13.0	41.2	30.205	H
17662.800	58.1	-13.0	41.2	29.905	H
17589.000	58.1	-14.9	41.2	31.818	H
17751.000	58.0	-13.0	41.0	30.005	V
17700.000	58.0	-13.0	41.2	29.805	H

Channel 120

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17629.800	46.6	-14.9	41.2	20.318	V
17671.800	46.6	-13.0	41.2	18.405	H
17627.400	46.6	-14.9	41.2	20.318	V
17624.400	46.6	-14.9	41.2	20.318	V
17668.800	46.5	-13.0	41.2	18.305	V
17636.400	46.5	-13.0	41.2	18.305	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17689.800	58.7	-13.0	41.2	30.505	V
17746.200	58.7	-13.0	41.2	30.505	V
17741.400	58.6	-13.0	41.2	30.405	V
17544.000	58.6	-14.9	41.2	32.318	H
17544.600	58.6	-14.9	41.2	32.318	V
17802.000	58.4	-13.0	41.0	30.405	V

Channel 140

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5725.600	42.8	-18.2	34.8	26.164	V
17709.600	46.5	-13.0	41.2	18.305	H
17703.600	46.5	-13.0	41.2	18.305	V
17627.400	46.5	-14.9	41.2	20.218	H
17629.200	46.5	-14.9	41.2	20.218	V
17667.600	46.4	-13.0	41.2	18.205	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5725.100	56.0	-18.2	34.8	39.364	H
17641.800	58.8	-13.0	41.2	30.605	H
17726.400	58.8	-13.0	41.2	30.605	H
17683.200	58.6	-13.0	41.2	30.405	V
17187.600	58.5	-15.1	41.4	32.193	V
17280.600	58.4	-15.1	41.2	32.293	V

802.11n-HT20

Channel 100

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5460.000	43.4	-16.9	34.4	25.915	V
17671.200	46.7	-13.0	41.2	18.505	V
17656.800	46.6	-13.0	41.2	18.405	H
17626.200	46.5	-14.9	41.2	20.218	H
17670.600	46.5	-13.0	41.2	18.305	V
17665.200	46.5	-13.0	41.2	18.305	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5453.980	57.0	-16.9	34.4	39.515	H
17644.800	58.3	-13.0	41.2	30.105	V
17778.600	58.2	-13.0	41.0	30.205	H
17624.400	58.2	-14.9	41.2	31.918	H
17786.400	58.2	-13.0	41.0	30.205	H
17710.200	58.1	-13.0	41.2	29.905	V

Channel 120

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17635.800	46.6	-13.0	41.2	18.405	V
17669.400	46.6	-13.0	41.2	18.405	H
17693.400	46.5	-13.0	41.2	18.305	V
17711.400	46.5	-13.0	41.2	18.305	V
17631.600	46.5	-14.9	41.2	20.218	H
17656.800	46.5	-13.0	41.2	18.305	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17730.600	58.4	-13.0	41.2	30.205	H
17737.200	58.2	-13.0	41.2	30.005	V
17759.400	58.2	-13.0	41.0	30.205	H
17656.800	58.1	-13.0	41.2	29.905	H
17719.800	57.9	-13.0	41.2	29.705	V
17622.000	57.9	-14.9	41.2	31.618	H

Channel 140

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5725.120	42.8	-18.2	34.8	26.164	V
17688.600	46.7	-13.0	41.2	18.505	V
17634.000	46.6	-13.0	41.2	18.405	V
17685.000	46.6	-13.0	41.2	18.405	V
17635.800	46.5	-13.0	41.2	18.305	V
17605.200	46.5	-14.9	41.2	20.218	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5726.940	56.5	-18.2	34.8	39.864	V
17720.400	59.4	-13.0	41.2	31.205	H
17709.600	59.3	-13.0	41.2	31.105	V
17559.600	58.7	-14.9	41.2	32.418	V
17655.600	58.6	-13.0	41.2	30.405	H
17623.200	58.6	-14.9	41.2	32.318	H

802.11n-HT40

Channel 102

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5459.900	43.4	-16.9	34.4	25.915	H
17682.000	46.7	-13.0	41.2	18.505	V
17673.000	46.6	-13.0	41.2	18.405	H
17696.400	46.5	-13.0	41.2	18.305	H
17632.200	46.5	-14.9	41.2	20.218	V
17624.400	46.5	-14.9	41.2	20.218	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5458.500	61.0	-16.9	34.4	43.515	H
17802.600	58.7	-13.0	41.0	30.705	H
17704.800	58.4	-13.0	41.2	30.205	H
17682.000	58.3	-13.0	41.2	30.105	H
17786.400	58.3	-13.0	41.0	30.305	V
17293.200	58.3	-13.9	41.2	31.023	H

Channel 118

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17637.600	46.7	-13.0	41.2	18.505	H
17709.000	46.6	-13.0	41.2	18.405	V
17658.000	46.5	-13.0	41.2	18.305	H
17682.000	46.5	-13.0	41.2	18.305	H
17705.400	46.5	-13.0	41.2	18.305	H
17624.400	46.5	-14.9	41.2	20.218	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17685.000	58.7	-13.0	41.2	30.505	V
17800.200	58.4	-13.0	41.0	30.405	H
17711.400	58.4	-13.0	41.2	30.205	V
17638.200	58.1	-13.0	41.2	29.905	V
17371.800	58.0	-13.9	41.2	30.723	H
17626.200	58.0	-14.9	41.2	31.718	V

Channel 134

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5725.950	38.7	-18.2	34.8	22.064	H
17634.000	46.7	-13.0	41.2	18.505	V
17711.400	46.6	-13.0	41.2	18.405	V
17689.800	46.6	-13.0	41.2	18.405	V
17659.200	46.6	-13.0	41.2	18.405	H
17707.200	46.5	-13.0	41.2	18.305	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5727.605	58.7	-18.2	34.8	42.064	H
17680.200	58.7	-13.0	41.2	30.505	H
17728.800	58.4	-13.0	41.2	30.205	H
17733.600	58.3	-13.0	41.2	30.105	H
17639.400	58.2	-13.0	41.2	30.005	V
17685.600	58.2	-13.0	41.2	30.005	H

802.11ac-HT20

Channel 100

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5459.920	43.2	-16.9	34.4	25.715	V
17680.800	46.6	-13.0	41.2	18.405	V
17655.600	46.5	-13.0	41.2	18.305	V
17659.800	46.4	-13.0	41.2	18.205	V
17664.600	46.4	-13.0	41.2	18.205	V
17706.000	46.4	-13.0	41.2	18.205	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5459.620	56.9	-16.9	34.4	39.415	V
17232.600	59.3	-15.1	41.4	32.993	V
17649.600	58.7	-13.0	41.2	30.505	H
17251.800	58.6	-15.1	41.2	32.493	H
17698.800	58.4	-13.0	41.2	30.205	H
17709.600	58.3	-13.0	41.2	30.105	V

Channel 120

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17656.800	46.7	-13.0	41.2	18.505	V
17653.200	46.6	-13.0	41.2	18.405	H
17698.800	46.5	-13.0	41.2	18.305	H
17654.400	46.5	-13.0	41.2	18.305	H
17706.600	46.5	-13.0	41.2	18.305	V
17685.600	46.5	-13.0	41.2	18.305	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17629.800	59.2	-14.9	41.2	32.918	H
17939.400	58.8	-13.5	41.0	31.262	V
17658.600	58.6	-13.0	41.2	30.405	H
17607.000	58.4	-14.9	41.2	32.118	V
17760.600	58.3	-13.0	41.0	30.305	H
17728.200	58.3	-13.0	41.2	30.105	V

Channel 140

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5725.080	42.5	-18.2	34.8	25.864	V
17632.800	46.7	-14.9	41.2	20.418	H
17670.600	46.6	-13.0	41.2	18.405	V
17689.800	46.6	-13.0	41.2	18.405	V
17703.000	46.6	-13.0	41.2	18.405	V
17623.200	46.6	-14.9	41.2	20.318	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5725.340	56.2	-18.2	34.8	39.564	H
17628.600	58.7	-14.9	41.2	32.418	H
17639.400	58.6	-13.0	41.2	30.405	H
17724.600	58.5	-13.0	41.2	30.305	V
17623.200	58.3	-14.9	41.2	32.018	H
17763.600	58.3	-13.0	41.0	30.305	H

802.11ac-HT40

Channel 102

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5459.880	43.0	-16.9	34.4	25.515	H
17679.000	46.7	-13.0	41.2	18.505	V
17673.000	46.6	-13.0	41.2	18.405	H
17690.400	46.5	-13.0	41.2	18.305	H
17658.600	46.5	-13.0	41.2	18.305	V
17655.000	46.5	-13.0	41.2	18.305	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5458.260	60.5	-16.9	34.4	43.015	V
17721.000	58.7	-13.0	41.2	30.505	H
17674.800	58.5	-13.0	41.2	30.305	V
17703.000	58.2	-13.0	41.2	30.005	V
17800.200	58.2	-13.0	41.0	30.205	H
17705.400	58.0	-13.0	41.2	29.805	V

Channel 118

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17697.600	46.9	-13.0	41.2	18.705	V
17690.400	46.7	-13.0	41.2	18.505	H
17634.600	46.7	-13.0	41.2	18.505	H
17673.600	46.6	-13.0	41.2	18.405	V
17644.800	46.6	-13.0	41.2	18.405	H
17683.800	46.6	-13.0	41.2	18.405	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17735.400	58.9	-13.0	41.2	30.705	V
17729.400	58.6	-13.0	41.2	30.405	H
17721.600	58.5	-13.0	41.2	30.305	H
17664.000	58.5	-13.0	41.2	30.305	V
17689.800	58.4	-13.0	41.2	30.205	V
17606.400	58.4	-14.9	41.2	32.118	H

Channel 134

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5726.395	38.8	-18.2	34.8	22.164	V
17678.400	46.7	-13.0	41.2	18.505	V
17713.800	46.6	-13.0	41.2	18.405	H
17702.400	46.6	-13.0	41.2	18.405	V
17659.200	46.5	-13.0	41.2	18.305	V
17705.400	46.5	-13.0	41.2	18.305	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5727.930	56.5	-18.2	34.8	39.864	H
17721.000	58.6	-13.0	41.2	30.405	H
17577.600	58.5	-14.9	41.2	32.218	H
17702.400	58.5	-13.0	41.2	30.305	V
17653.200	58.4	-13.0	41.2	30.205	V
17828.400	58.4	-13.5	41.0	30.862	H

Test graphs as below:

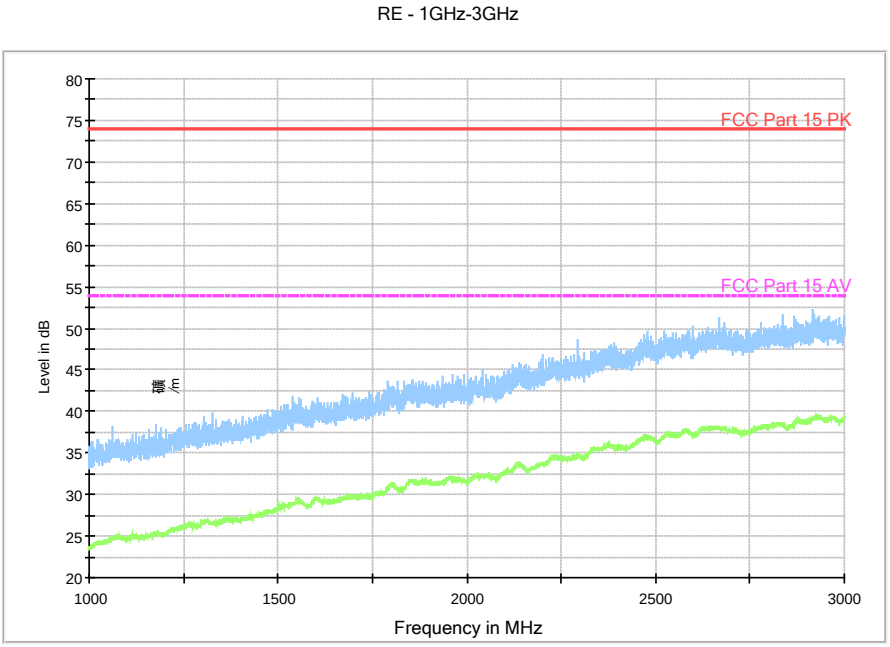
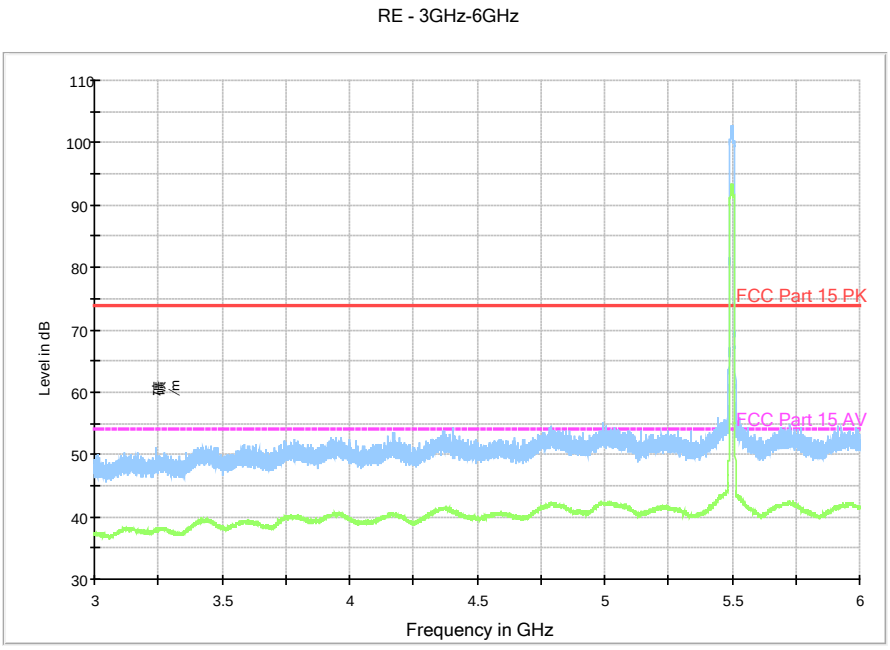


Fig. 132 Radiated Spurious Emission (802.11a, ch100, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 133 Radiated Spurious Emission (802.11a, ch100, 3 GHz-6GHz)

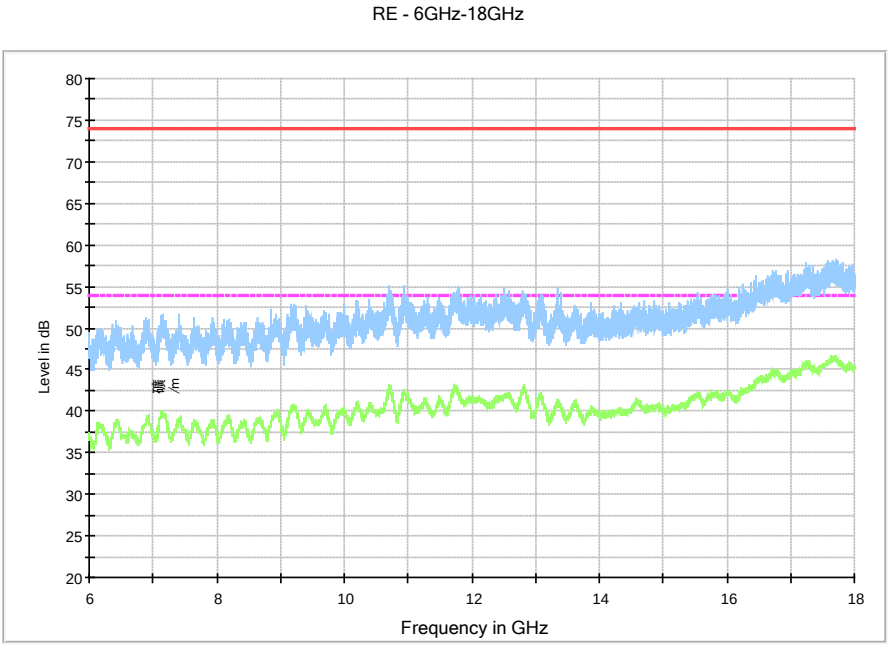


Fig. 134 Radiated Spurious Emission (802.11a, ch100, 6 GHz-18 GHz)

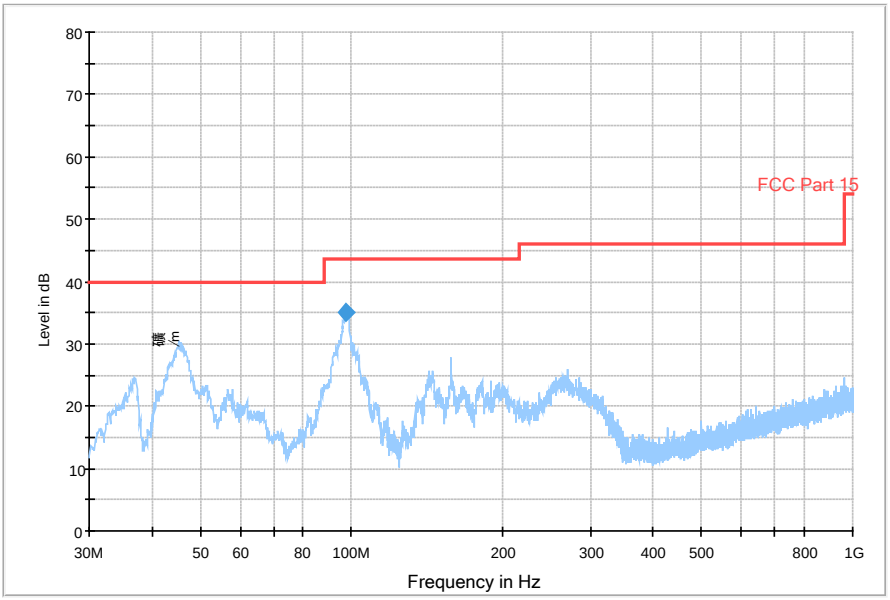


Fig. 135 Radiated Spurious Emission (802.11a, ch120, 30 MHz-1 GHz)

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
97.803000	35.1	100.0	V	301.0	-25.5	8.4	43.5	

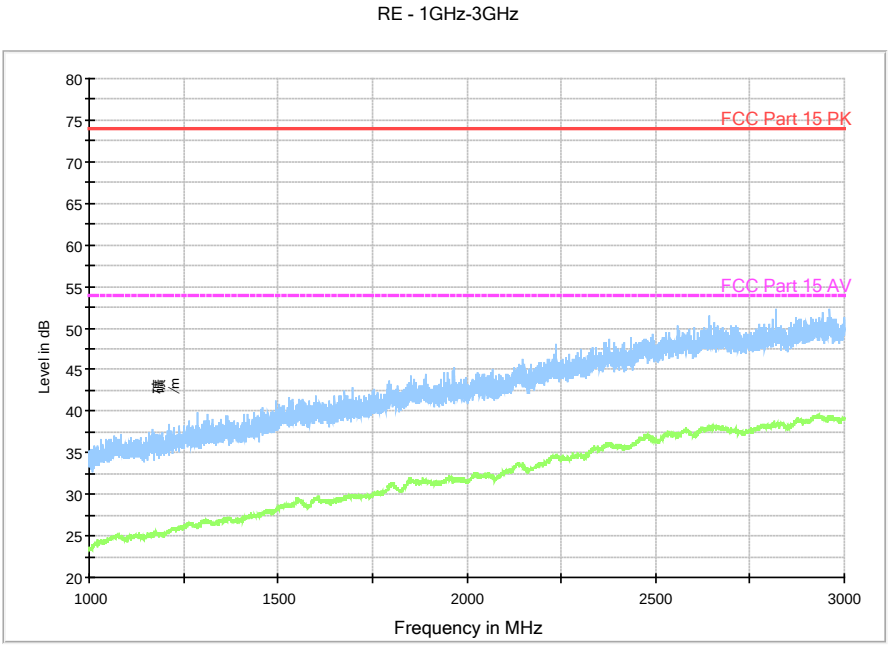
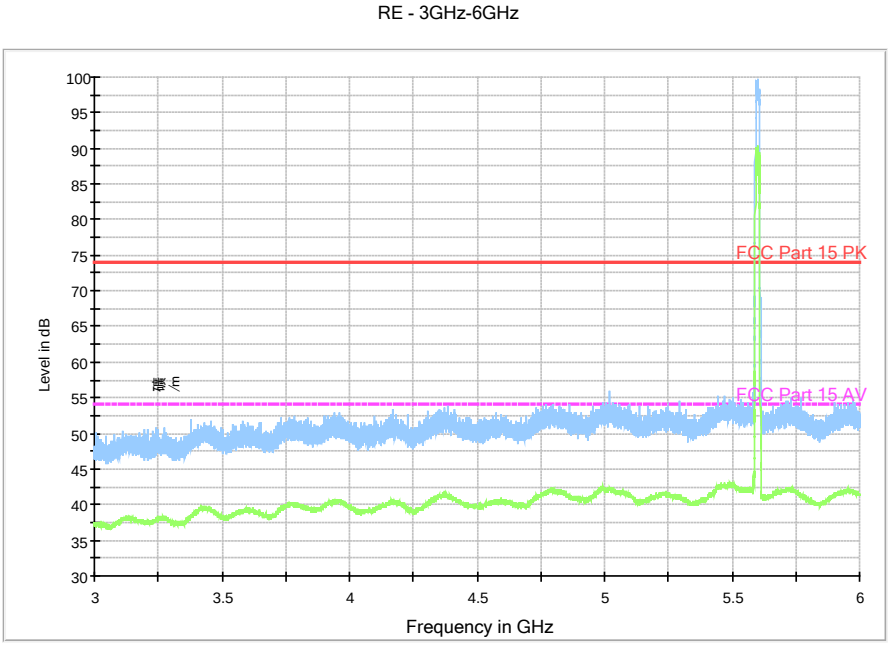


Fig. 136 Radiated Spurious Emission (802.11a, ch120, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 137 Radiated Spurious Emission (802.11a, ch120, 3 GHz-6GHz)

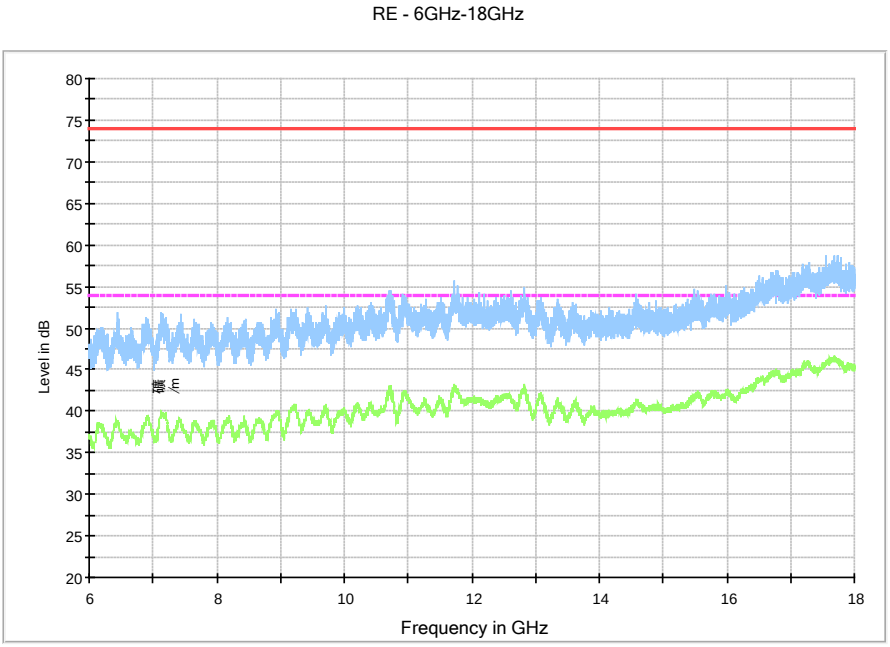


Fig. 138 Radiated Spurious Emission (802.11a, ch120, 6 GHz-18 GHz)

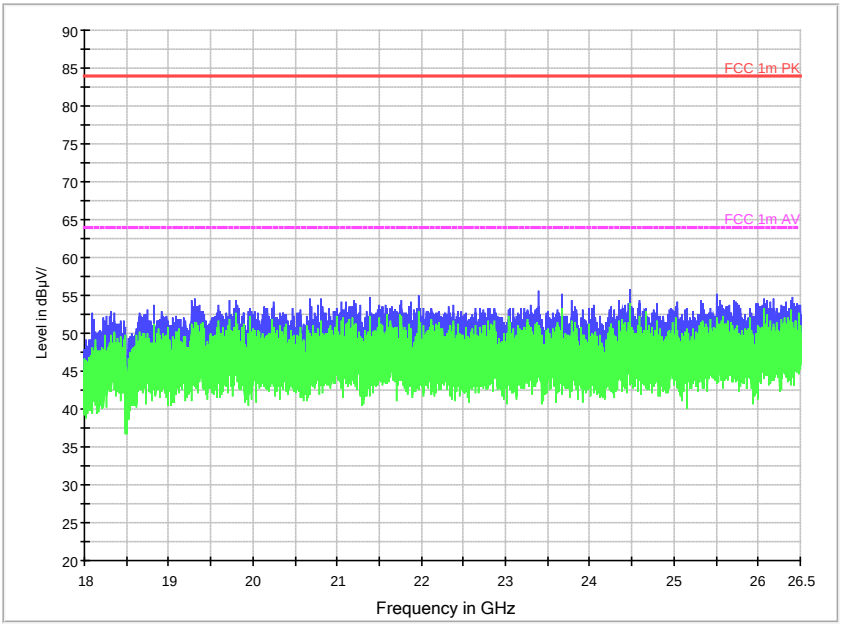


Fig. 139 Radiated Spurious Emission (802.11a, ch120, 18 GHz-26.5 GHz)

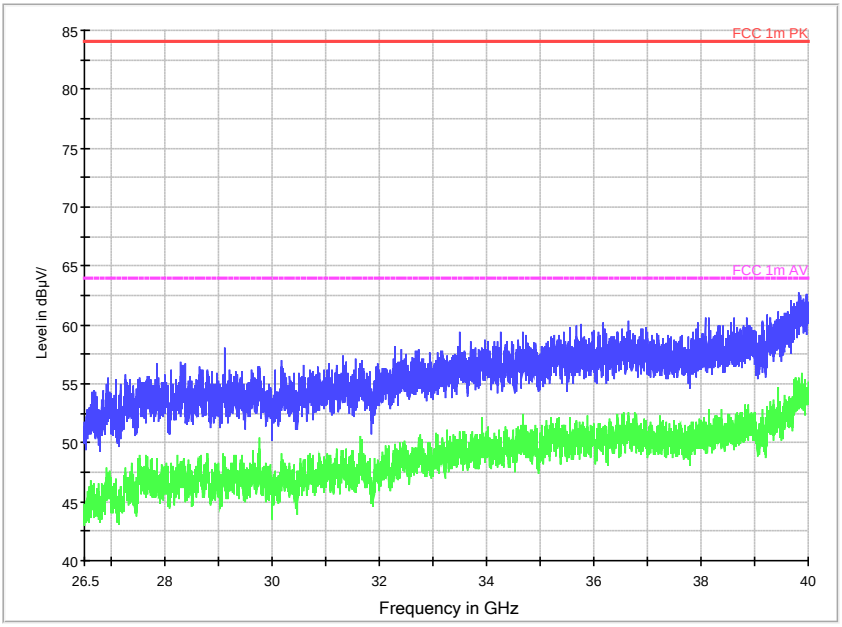


Fig. 140 Radiated Spurious Emission (802.11a, ch120, 26.5 GHz-40 GHz)

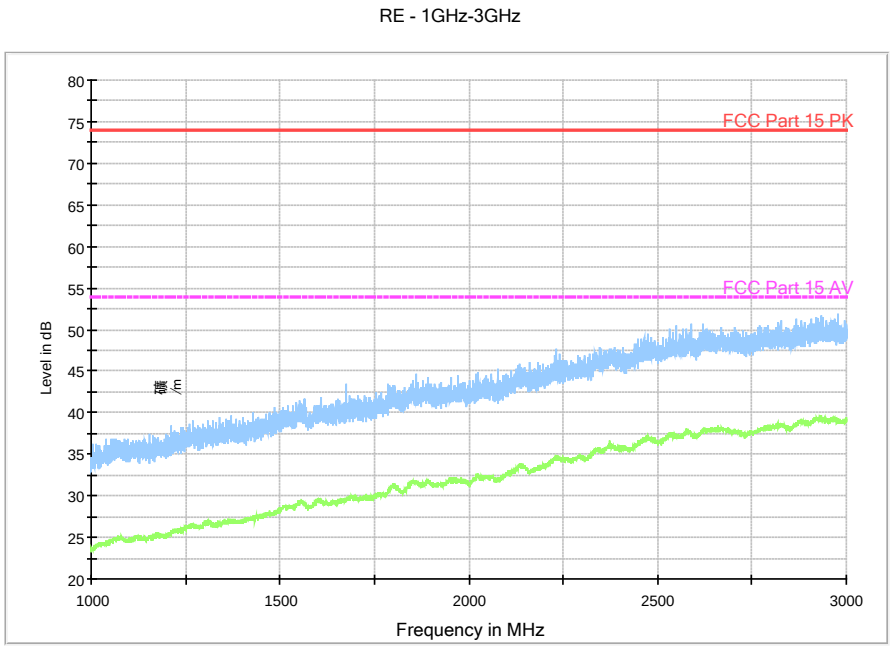
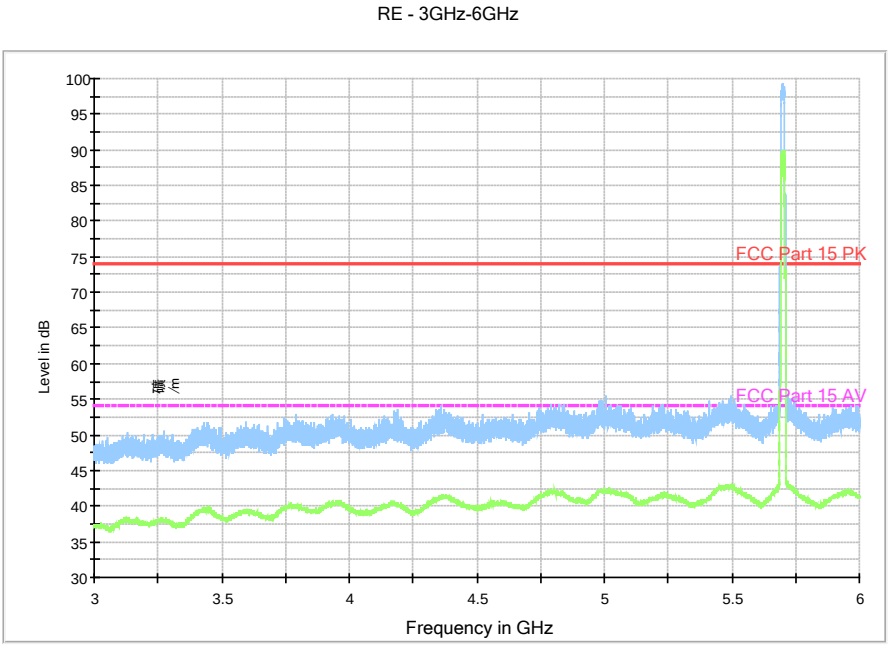


Fig. 141 Radiated Spurious Emission (802.11a, ch140, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 142 Radiated Spurious Emission (802.11a, ch140, 3 GHz-6 GHz)

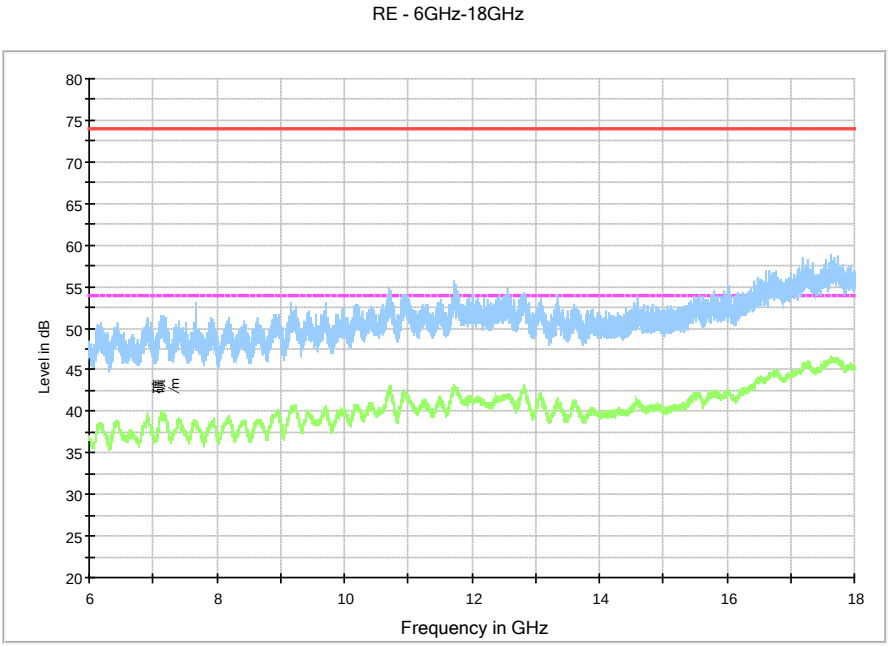


Fig. 143 Radiated Spurious Emission (802.11a, ch140, 6 GHz-18GHz)

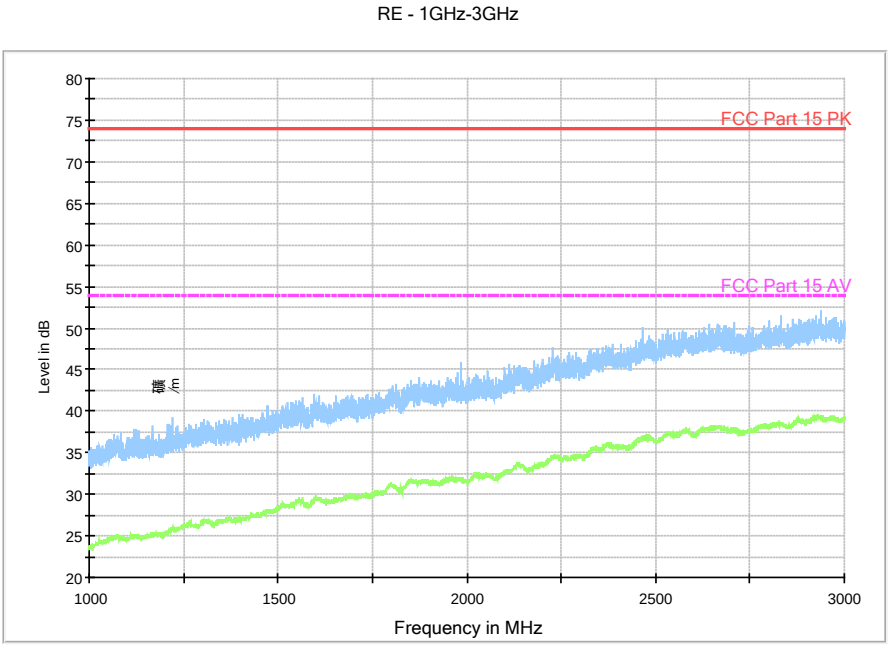
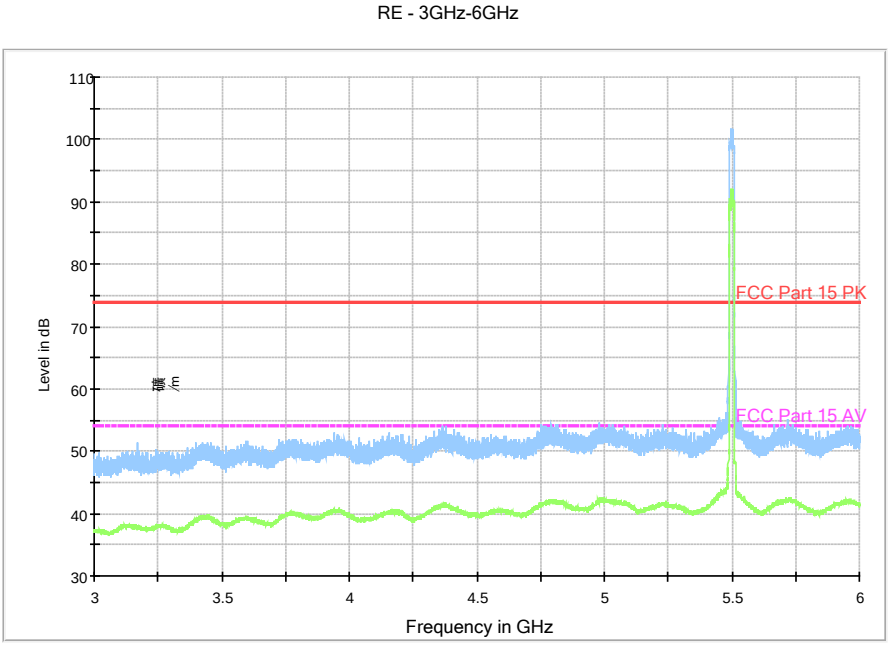


Fig. 144 Radiated Spurious Emission (802.11n-HT20, ch100, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 145 Radiated Spurious Emission (802.11n-HT20, ch100, 3 GHz-6 GHz)

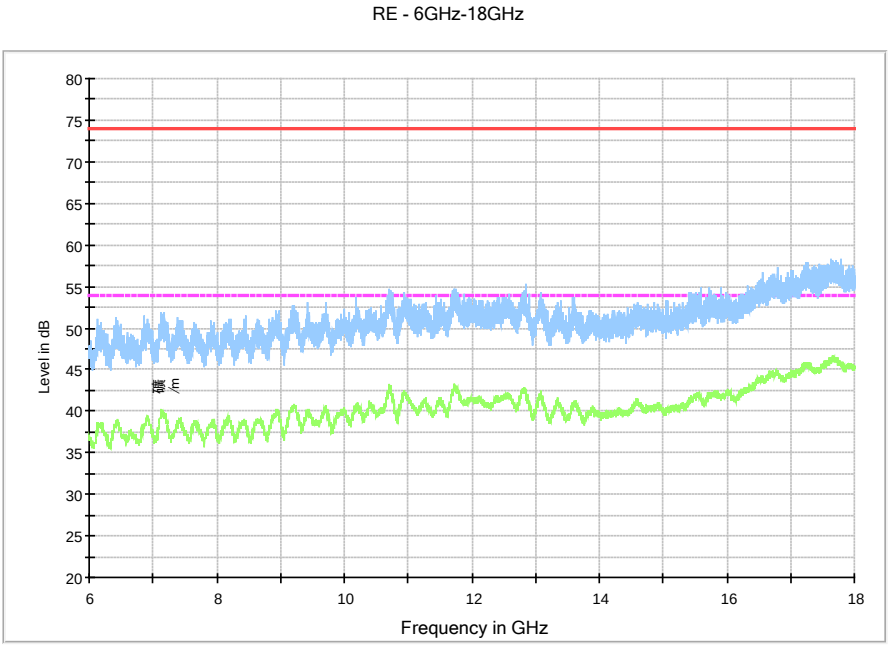


Fig. 146 Radiated Spurious Emission (802.11n-HT20, ch100, 6 GHz-18GHz)

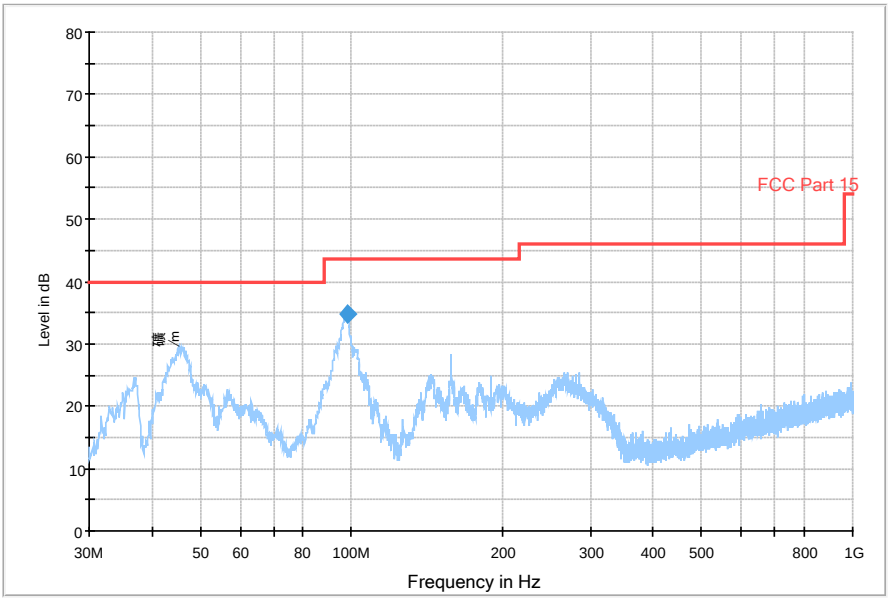


Fig. 147 Radiated Spurious Emission (802.11n-HT20, ch120, 30 MHz-1 GHz)

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
97.997000	34.7	100.0	V	301.0	-25.5	8.8	43.5	

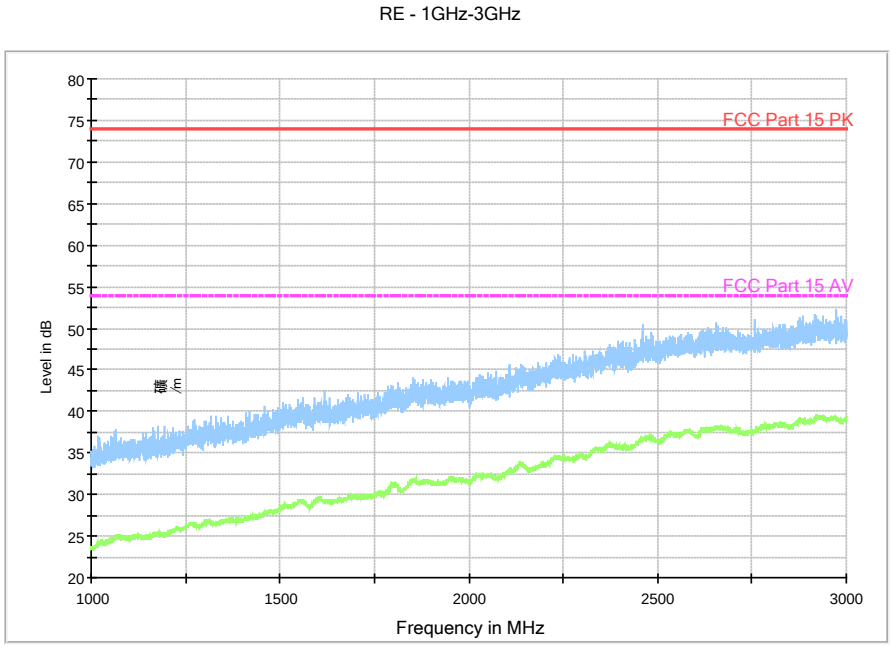
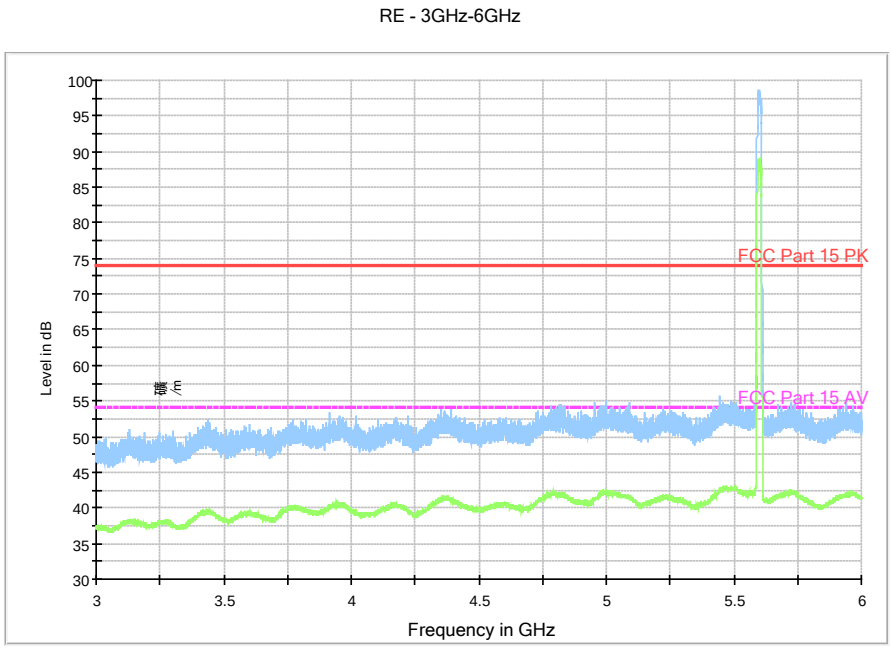


Fig. 148 Radiated Spurious Emission (802.11n-HT20, ch120 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 149 Radiated Spurious Emission (802.11n-HT20, ch120 3 GHz-6 GHz)

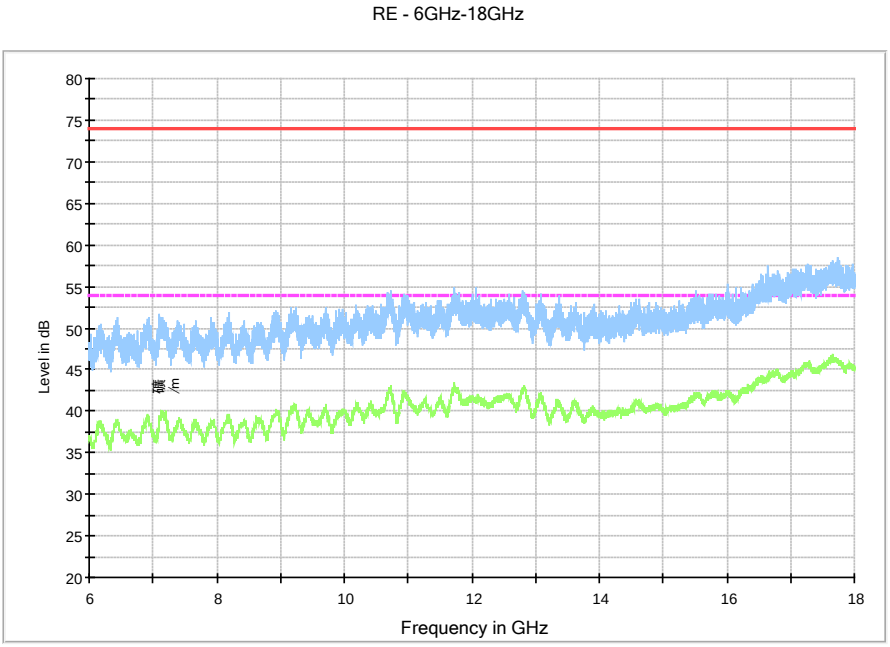


Fig. 150 Radiated Spurious Emission (802.11n-HT20, ch120, 6 GHz-18 GHz)

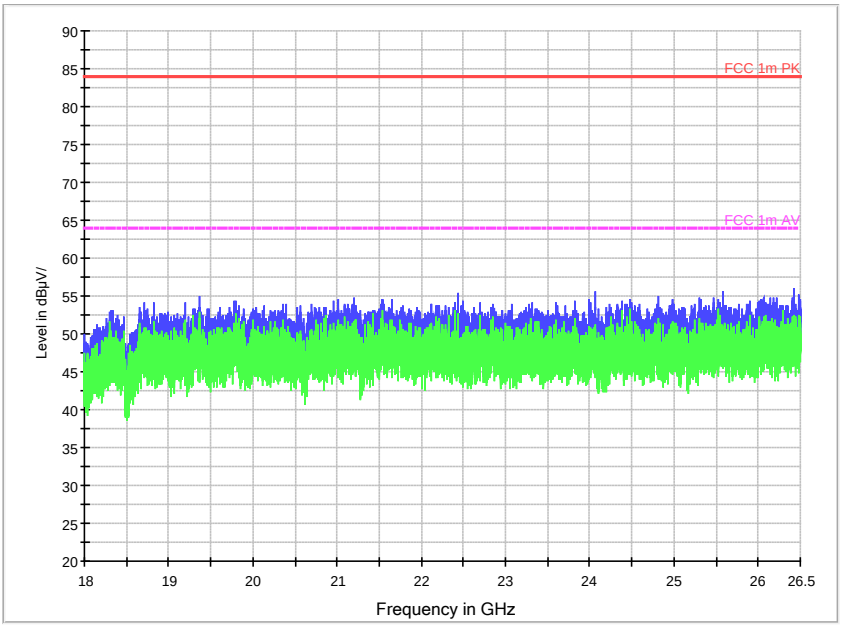


Fig. 151 Radiated Spurious Emission (802.11n-HT20, ch120, 18 GHz-26.5 GHz)

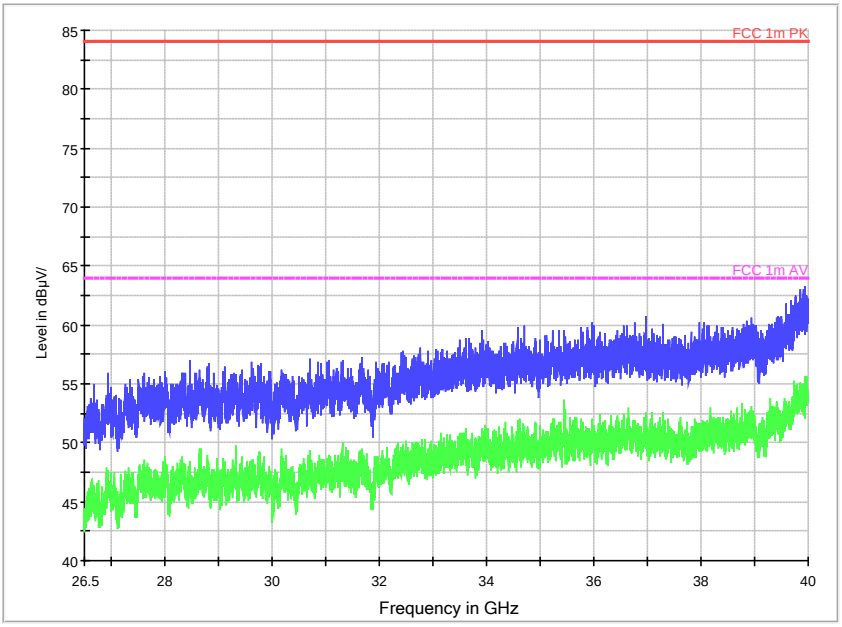


Fig. 152 Radiated Spurious Emission (802.11n-HT20, ch120, 26.5 GHz-40 GHz)

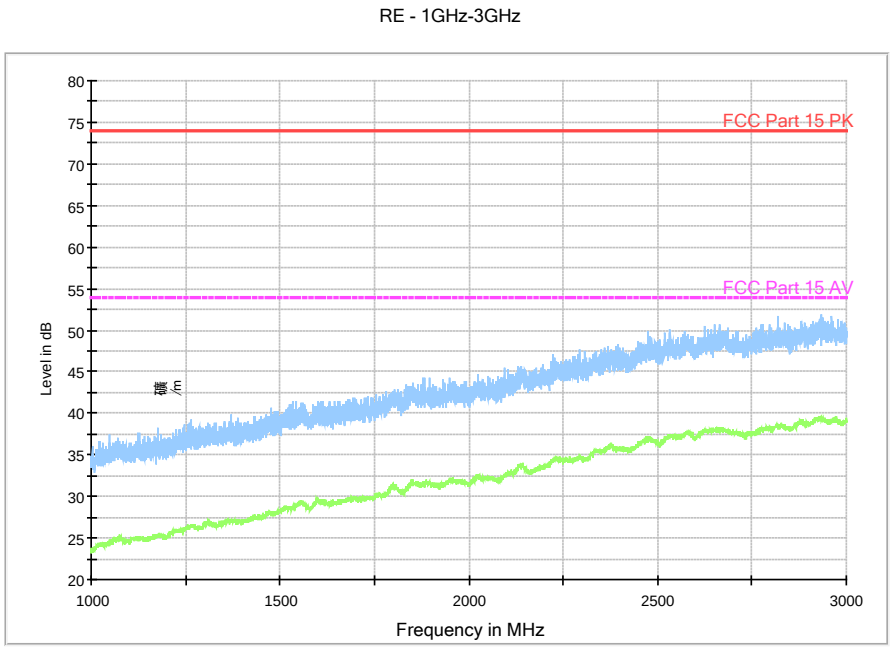
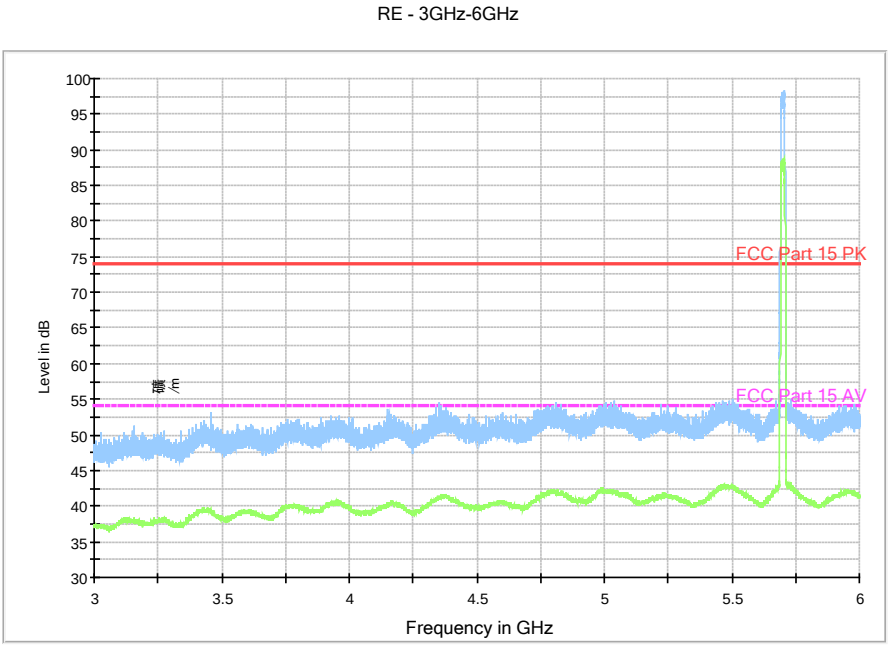


Fig. 153 Radiated Spurious Emission (802.11n-HT20, ch140, 1 GHz-3GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 154 Radiated Spurious Emission (802.11n-HT20, ch140, 3 GHz-6GHz)

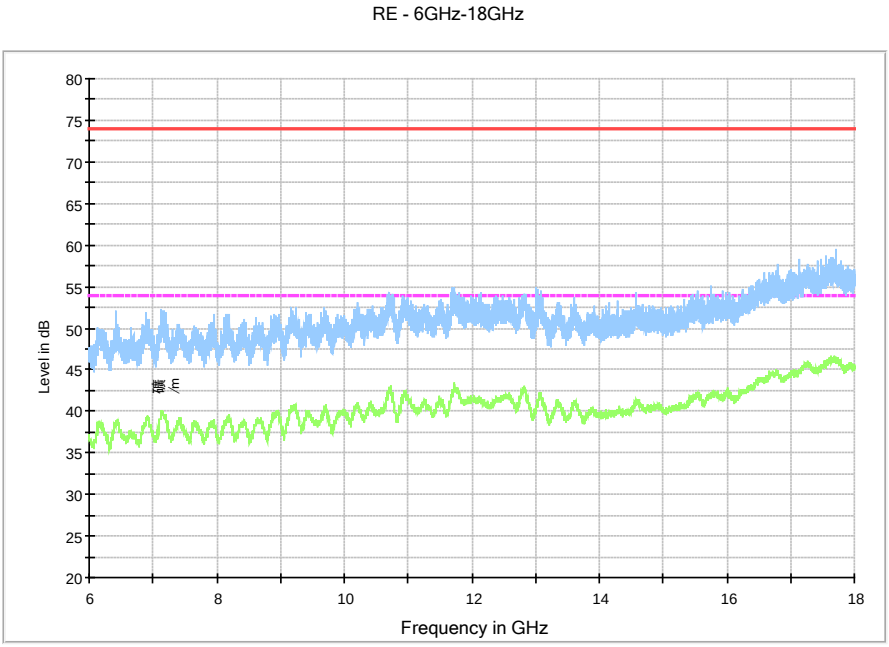


Fig. 155 Radiated Spurious Emission (802.11n-HT20, ch140, 6 GHz-18 GHz)

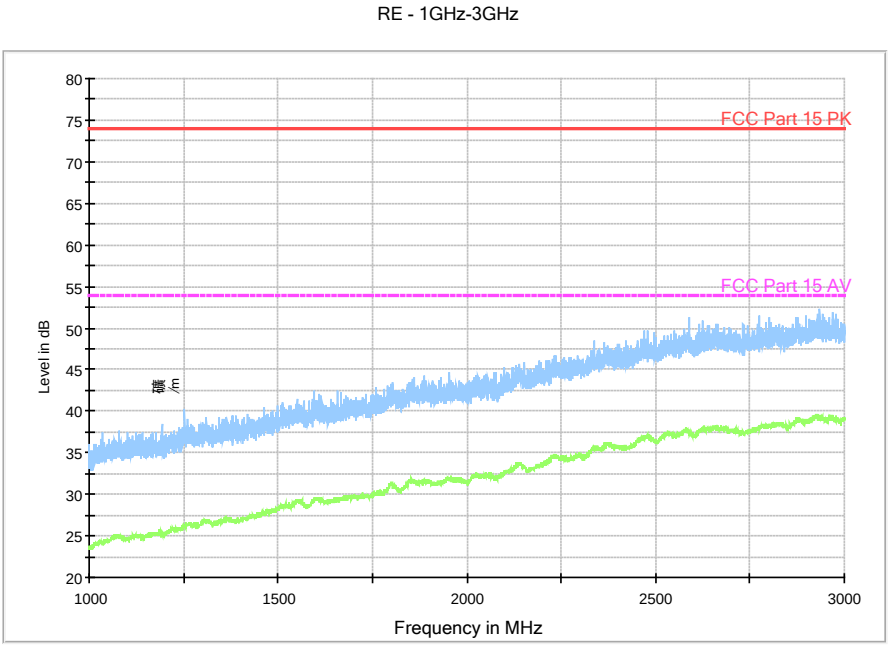
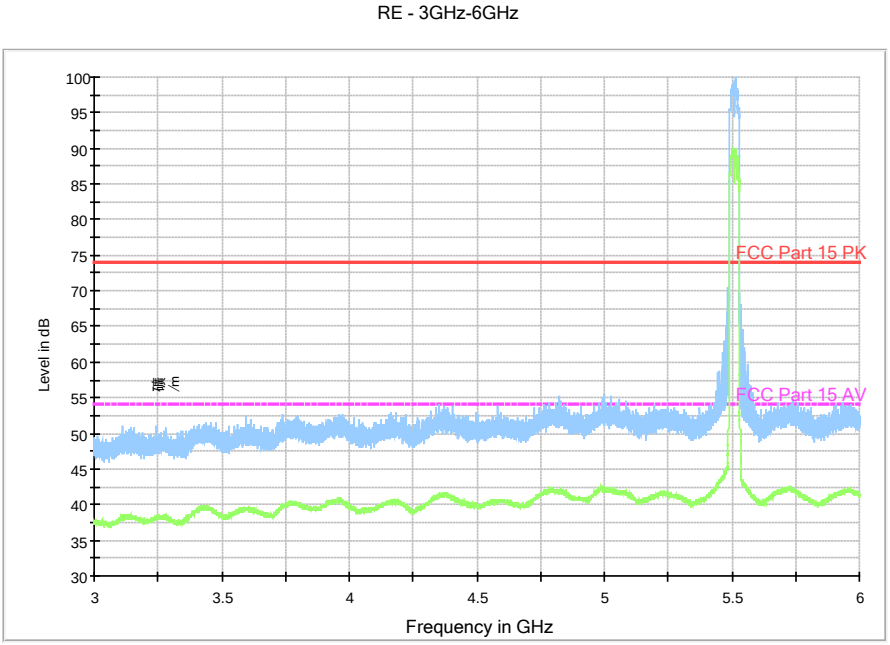


Fig. 156 Radiated Spurious Emission (802.11n-HT40, ch102, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 157 Radiated Spurious Emission (802.11n-HT40, ch102, 3 GHz-6 GHz)

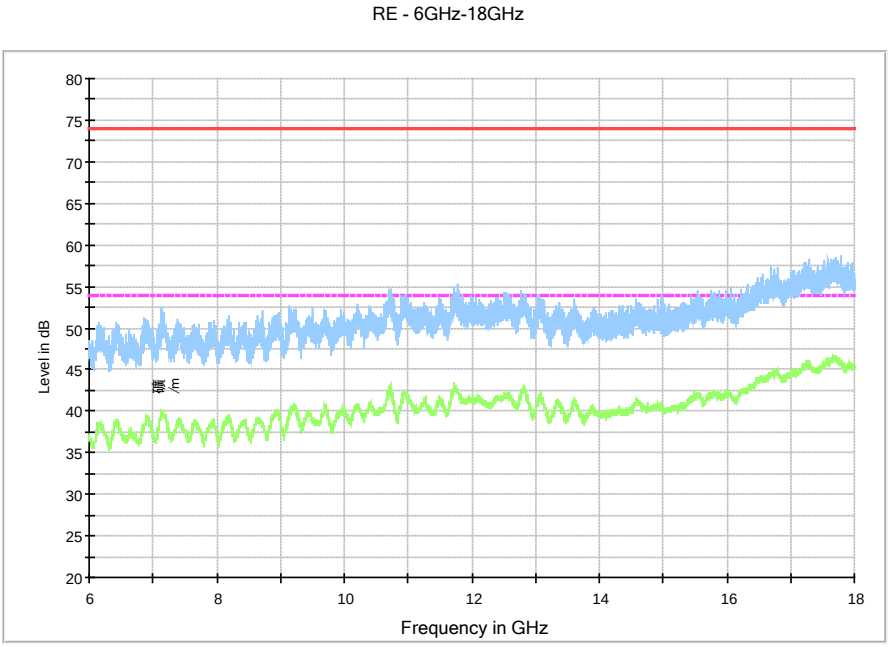


Fig. 158 Radiated Spurious Emission (802.11n-HT40, ch102, 6 GHz-18 GHz)

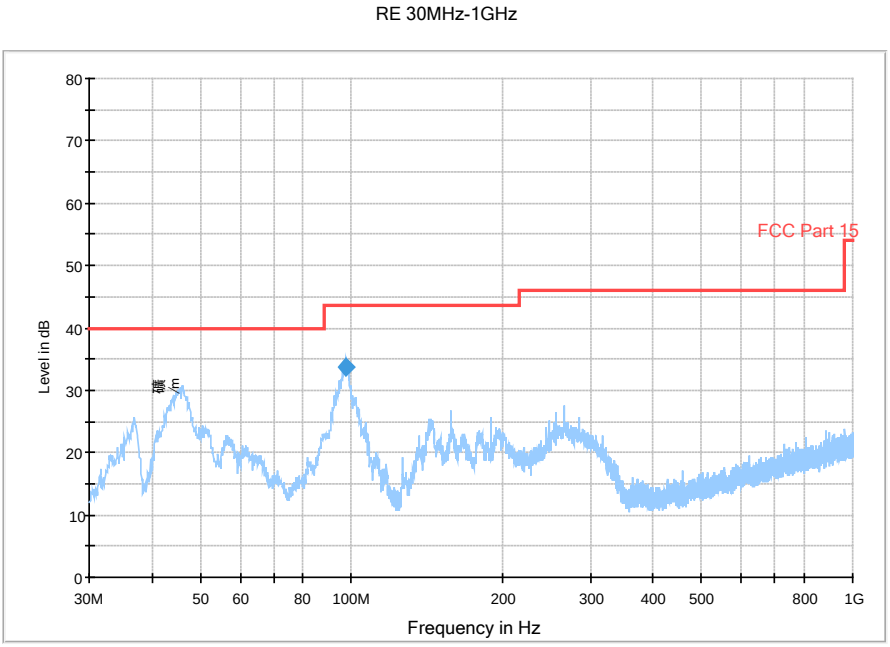


Fig. 159 Radiated Spurious Emission (802.11n-HT40, ch118, 30 MHz-1 GHz)

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
97.900000	33.8	100.0	V	315.0	-25.5	9.7	43.5	

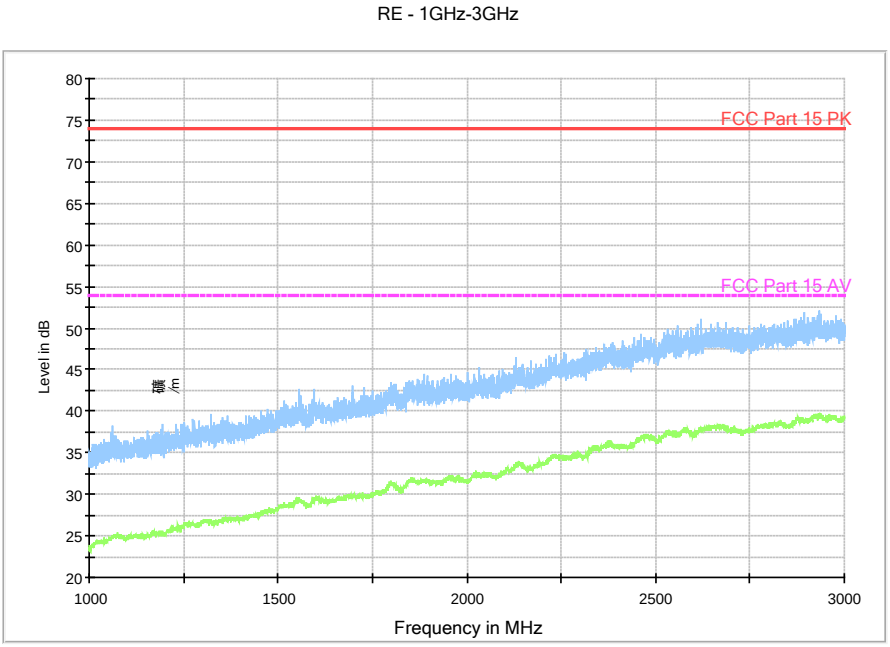
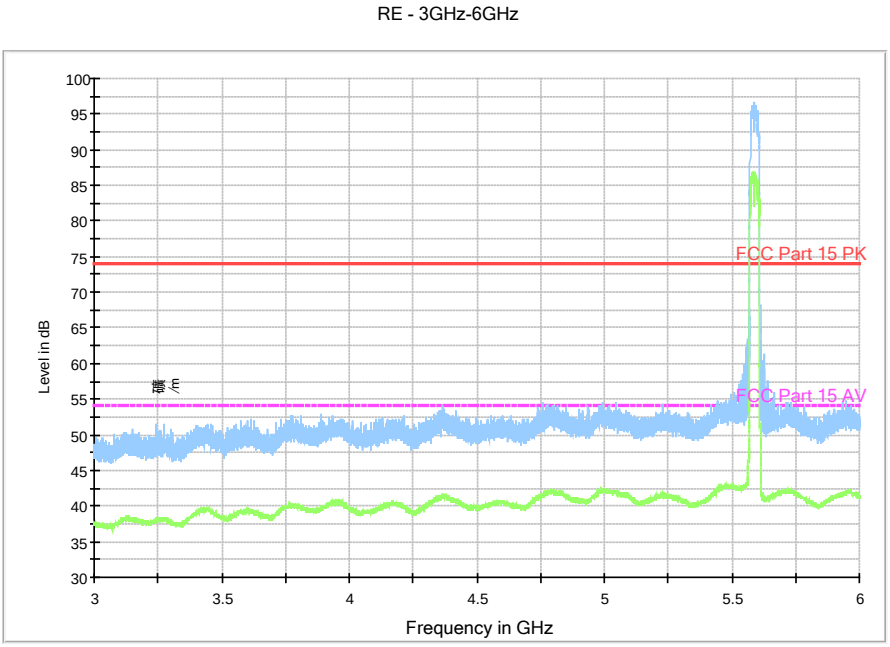


Fig. 160 Radiated Spurious Emission (802.11n-HT40, ch118, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 161 Radiated Spurious Emission (802.11n-HT40, ch118, 3 GHz-6 GHz)

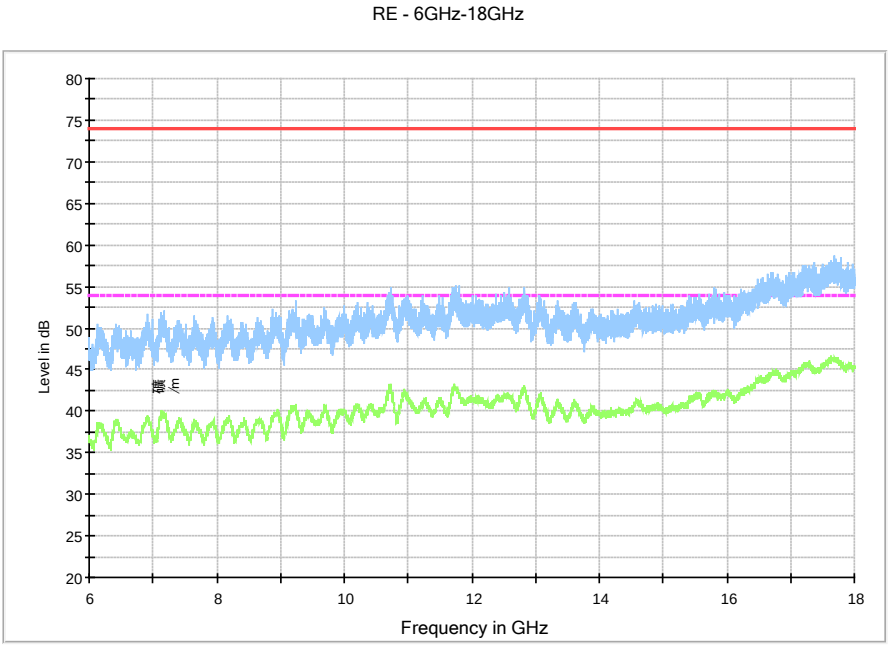


Fig. 162 Radiated Spurious Emission (802.11n-HT40, ch118, 6 GHz-18 GHz)

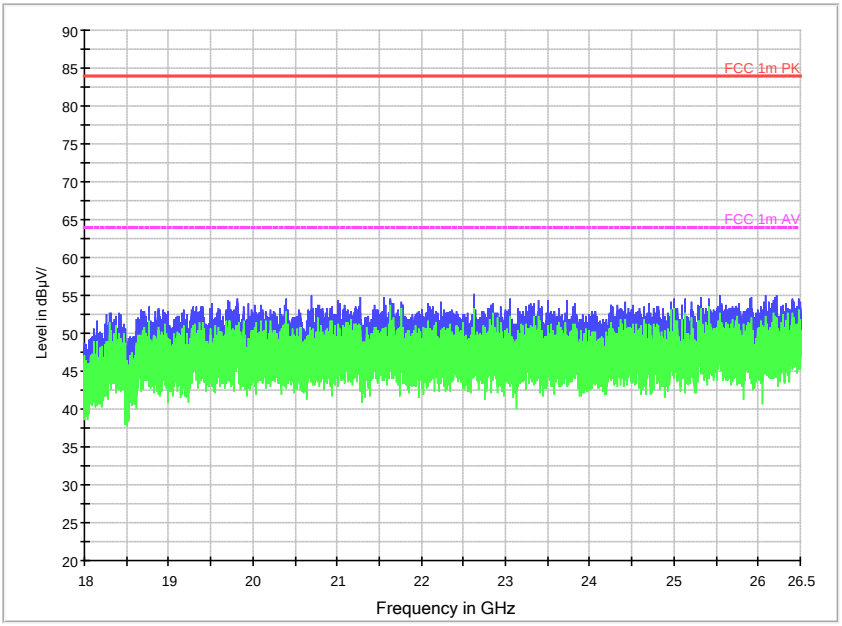


Fig. 163 Radiated Spurious Emission (802.11n-HT40, ch118, 18 GHz-26.5 GHz)

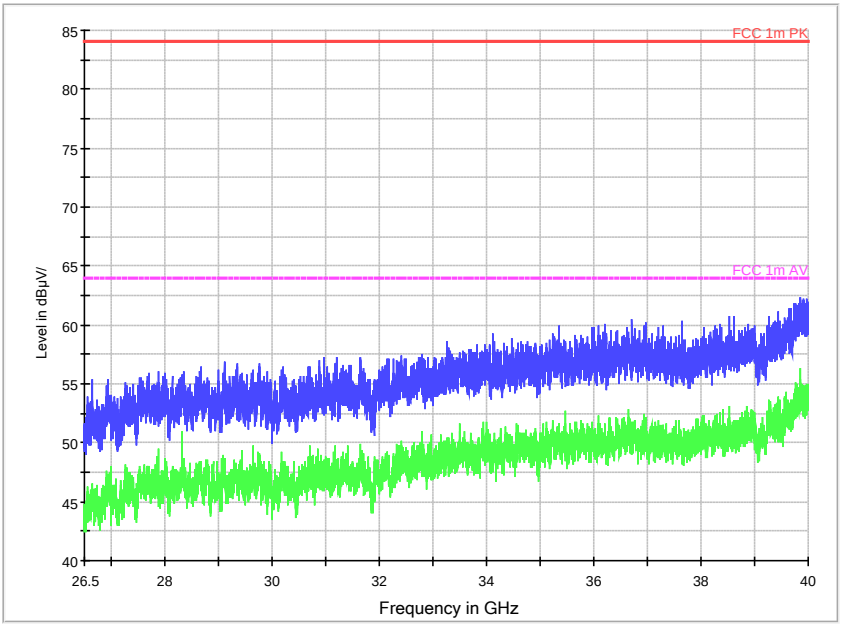


Fig. 164 Radiated Spurious Emission (802.11n-HT40, ch118, 26.5 GHz-40 GHz)

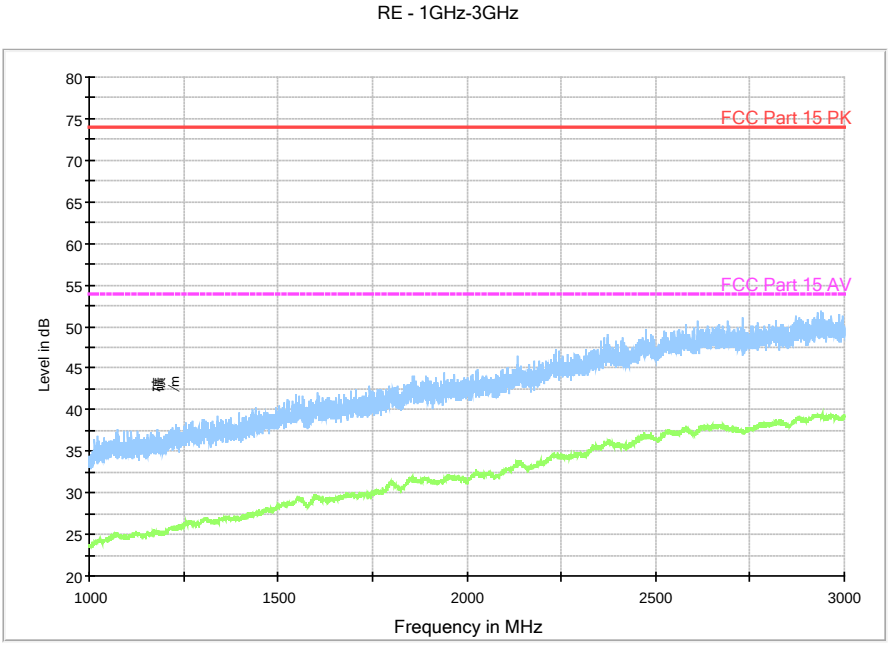
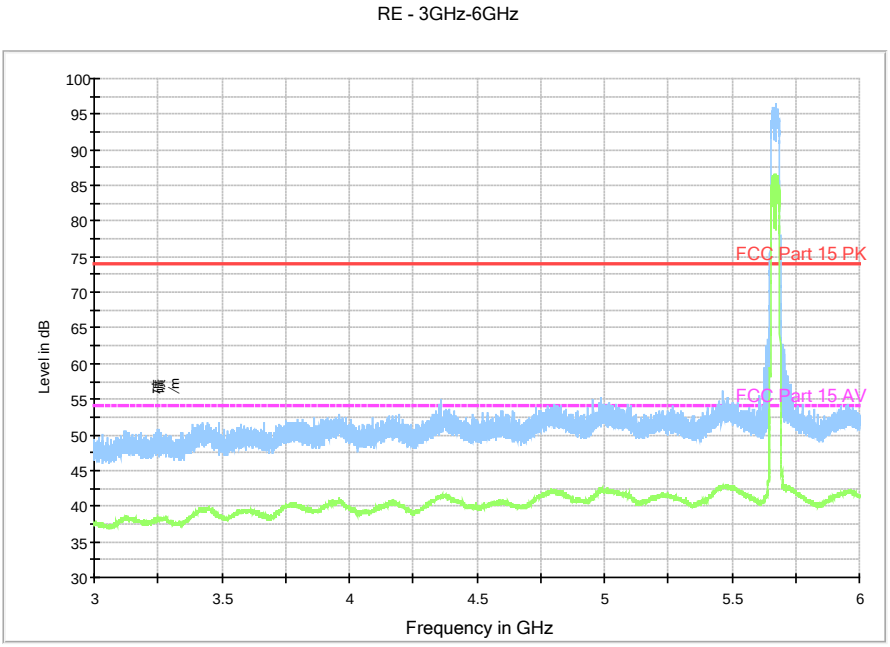


Fig. 165 Radiated Spurious Emission (802.11n-HT40, ch134, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 166 Radiated Spurious Emission (802.11n-HT40, ch134, 3 GHz-6 GHz)

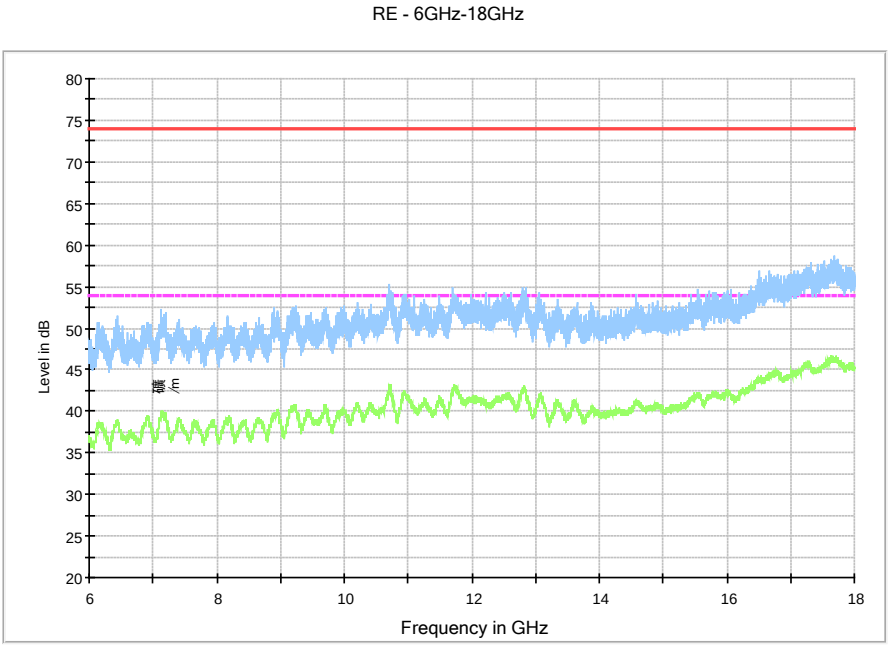


Fig. 167 Radiated Spurious Emission (802.11n-HT40, ch134, 6 GHz-18 GHz)

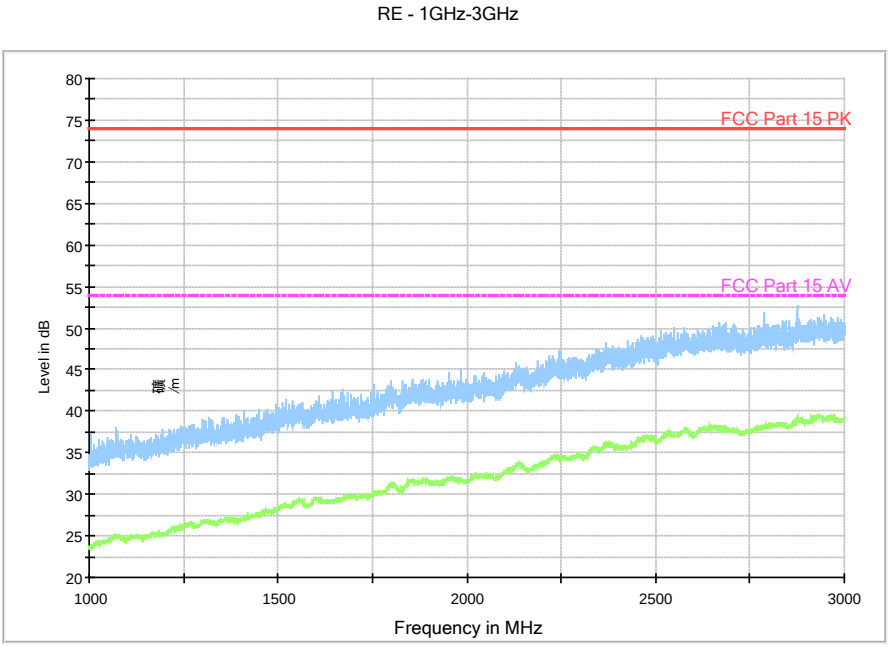
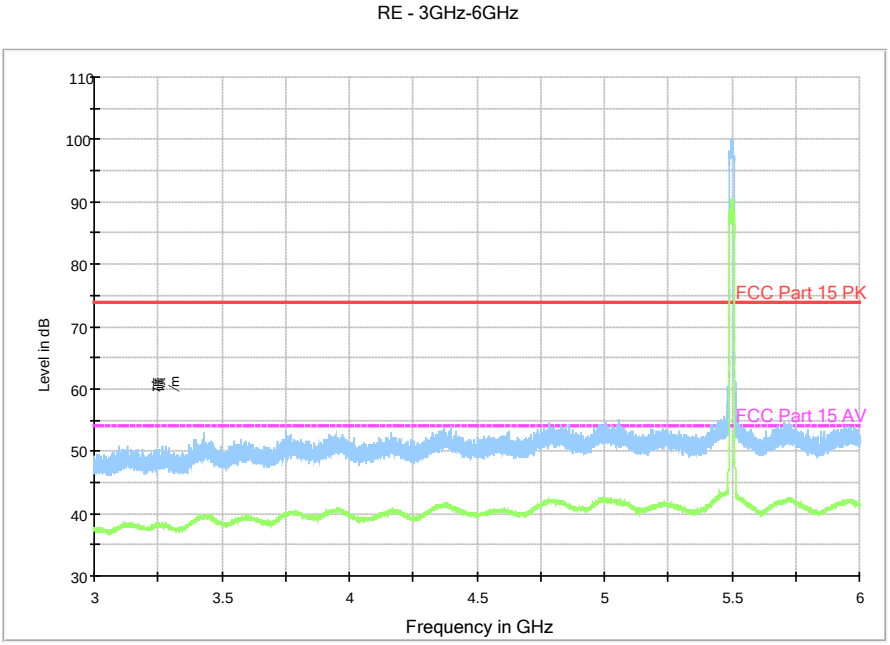


Fig. 168 Radiated Spurious Emission (802.11ac-HT20, ch100, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 169 Radiated Spurious Emission (802.11ac-HT20, ch100, 3 GHz-6 GHz)

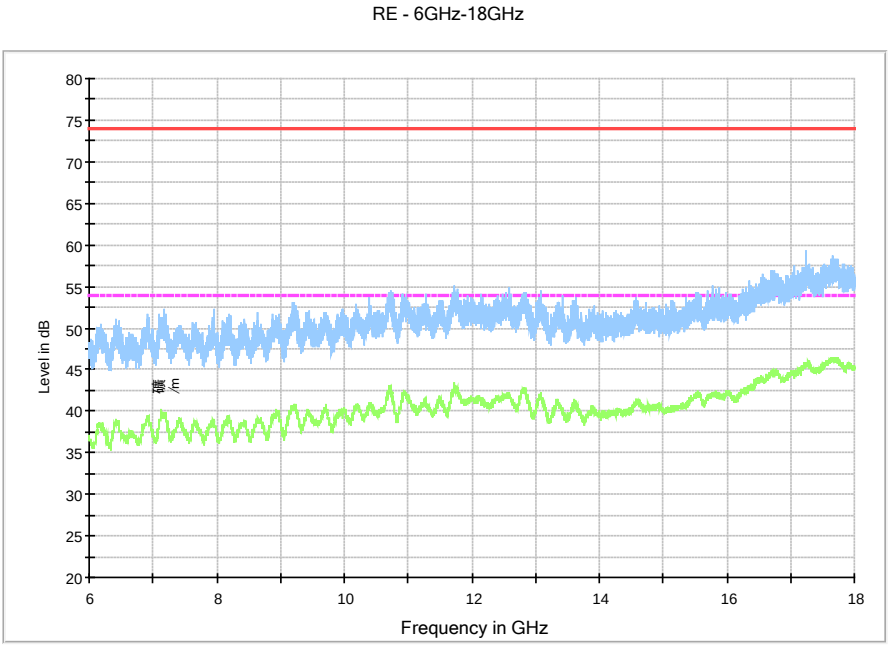


Fig. 170 Radiated Spurious Emission (802.11ac-HT20, ch100, 6 GHz-18GHz)

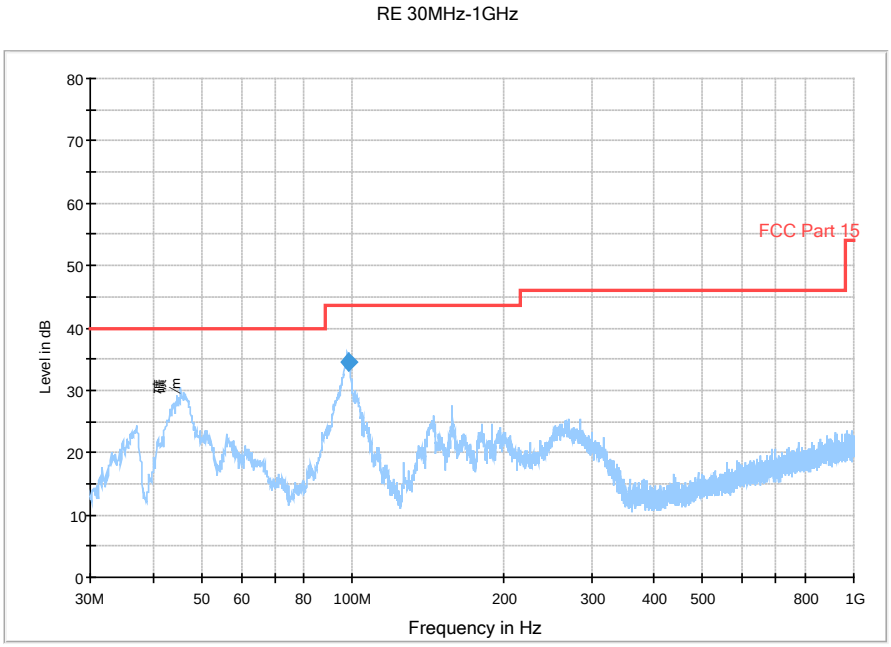


Fig. 171 Radiated Spurious Emission (802.11ac-HT20, ch120, 30 MHz-1 GHz)

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
98.094000	34.5	100.0	V	296.0	-25.5	9.0	43.5	

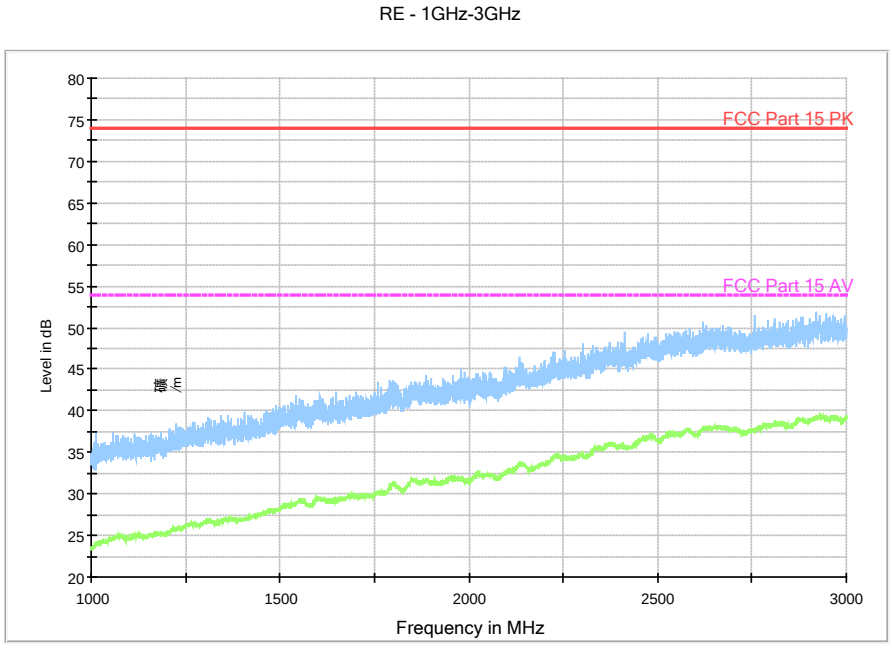
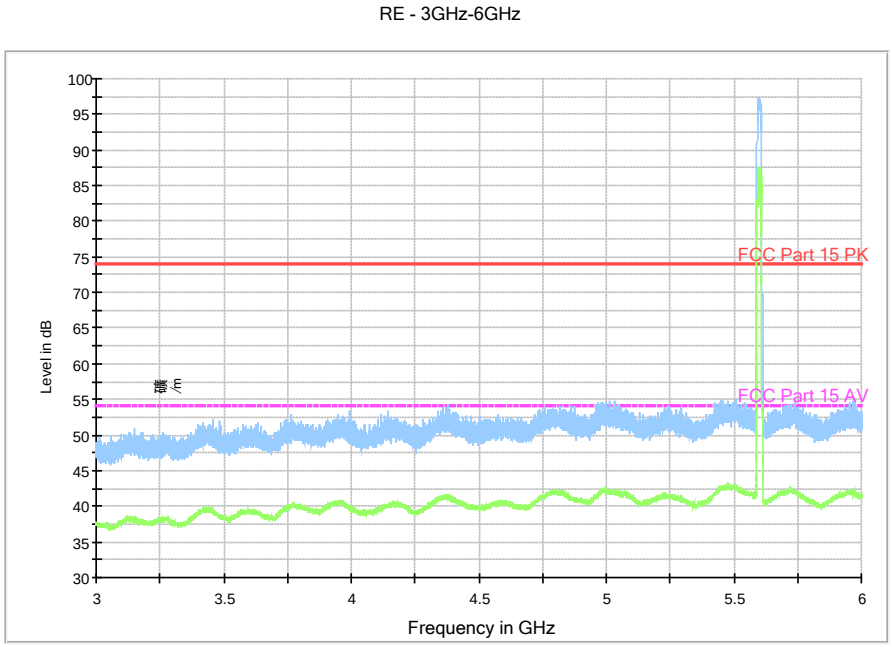


Fig. 172 Radiated Spurious Emission (802.11ac-HT20, ch120, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 173 Radiated Spurious Emission (802.11ac-HT20, ch120, 3 GHz-6 GHz)

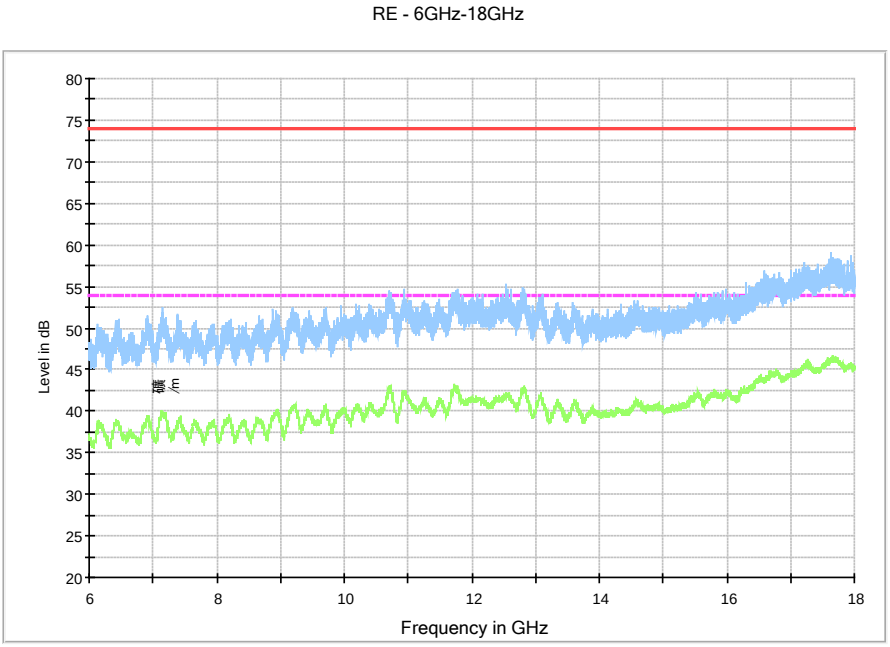


Fig. 174 Radiated Spurious Emission (802.11ac-HT20, ch120, 6 GHz-18 GHz)

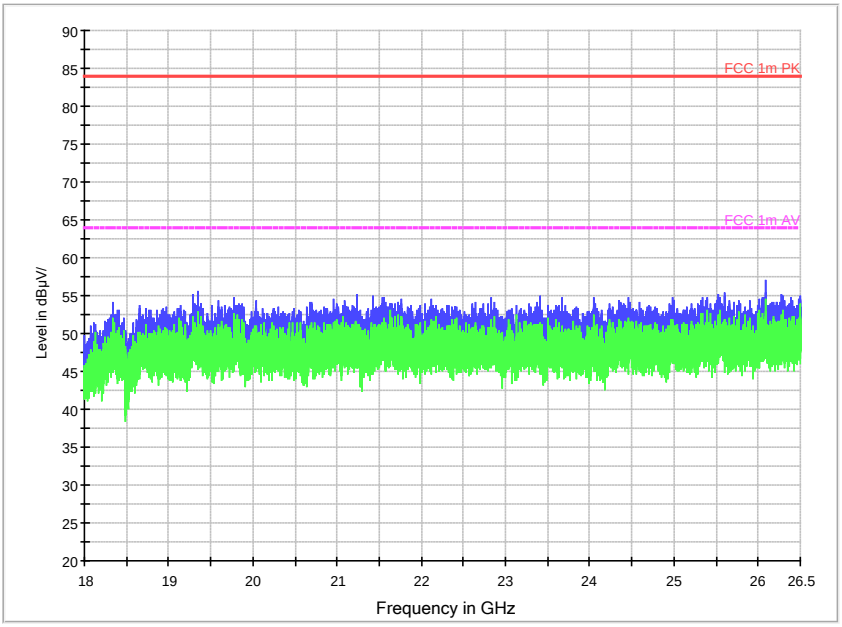


Fig. 175 Radiated Spurious Emission (802.11ac-HT20, ch120, 18 GHz-26.5 GHz)

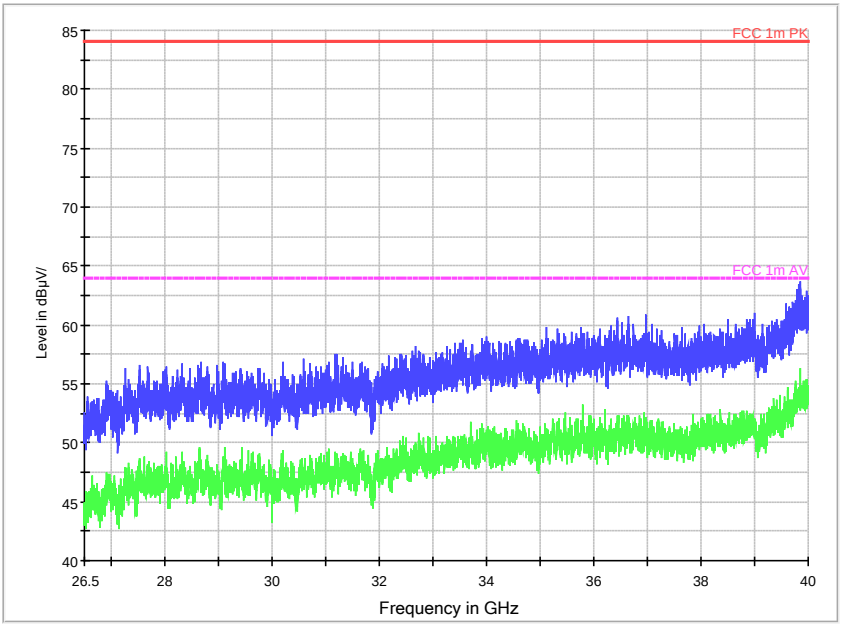


Fig. 176 Radiated Spurious Emission (802.11ac-HT20, ch120, 26.5 GHz-40 GHz)

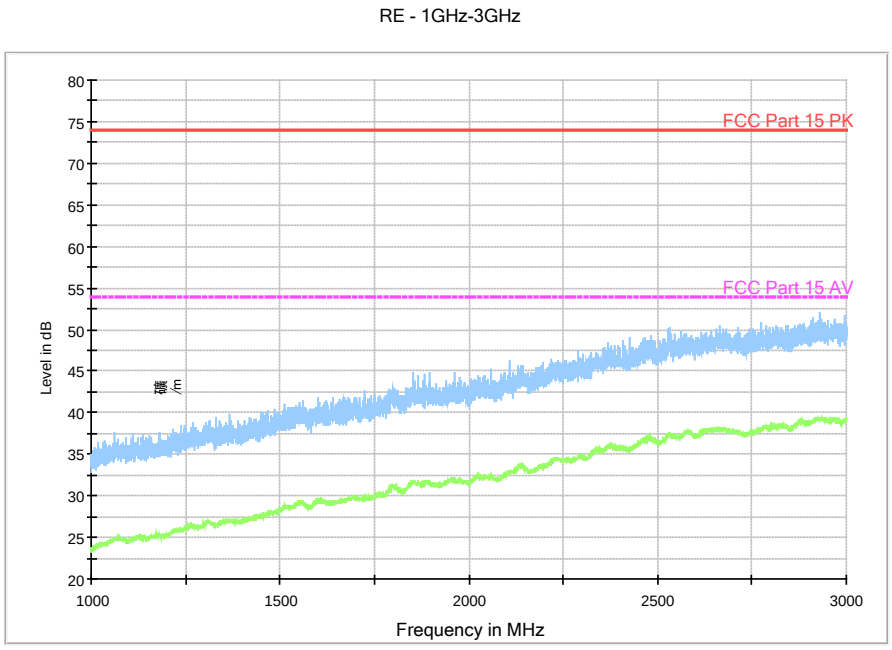
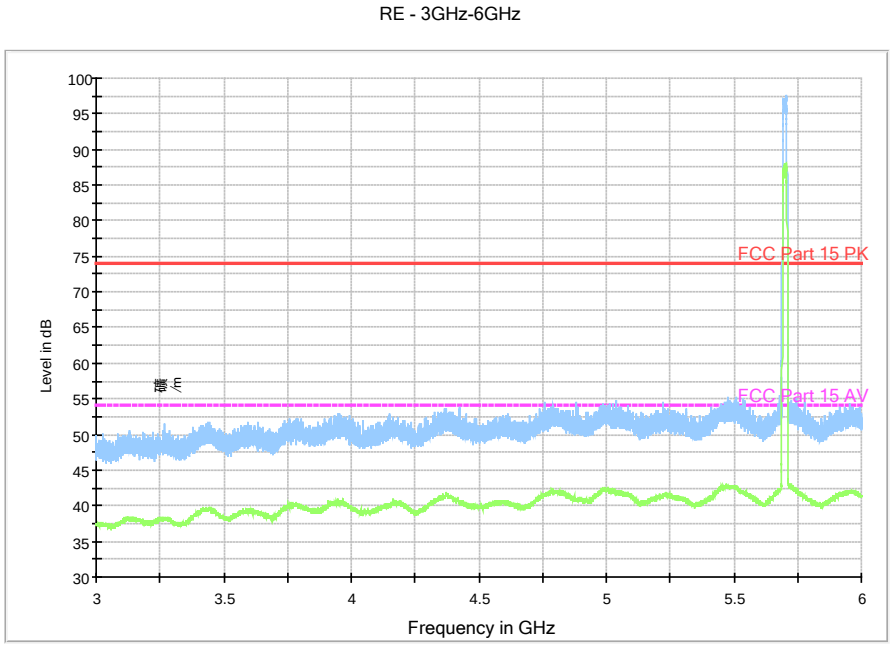


Fig. 177 Radiated Spurious Emission (802.11ac-HT20, ch140, 1 GHz-3GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 178 Radiated Spurious Emission (802.11ac-HT20, ch140, 3GHz-6GHz)

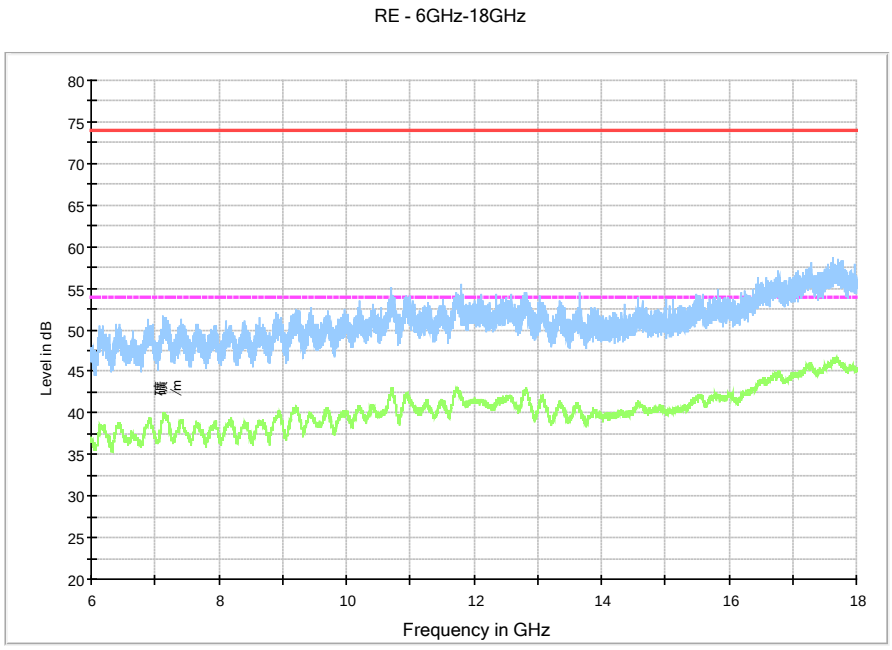


Fig. 179 Radiated Spurious Emission (802.11ac-HT20, ch140, 6 GHz-18 GHz)

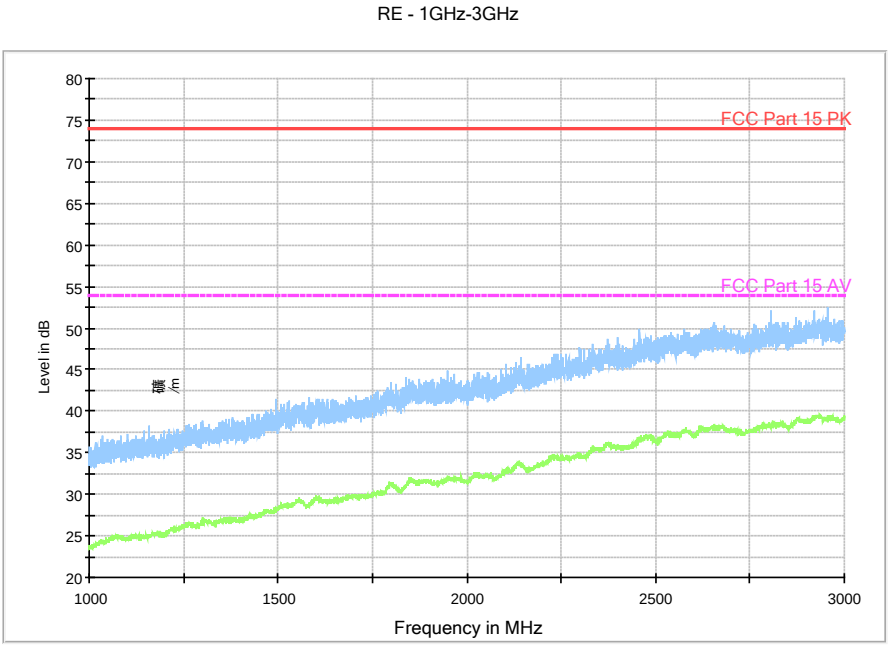
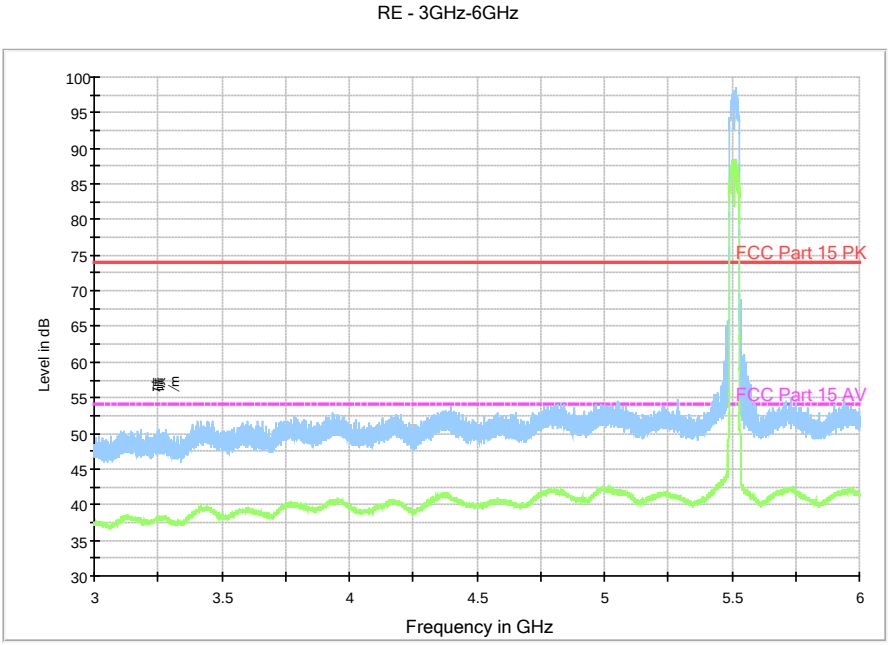


Fig. 180 Radiated Spurious Emission (802.11ac-HT40, ch102, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 181 Radiated Spurious Emission (802.11ac-HT40, ch102, 3 GHz-6 GHz)

RE - 6GHz-18GHz

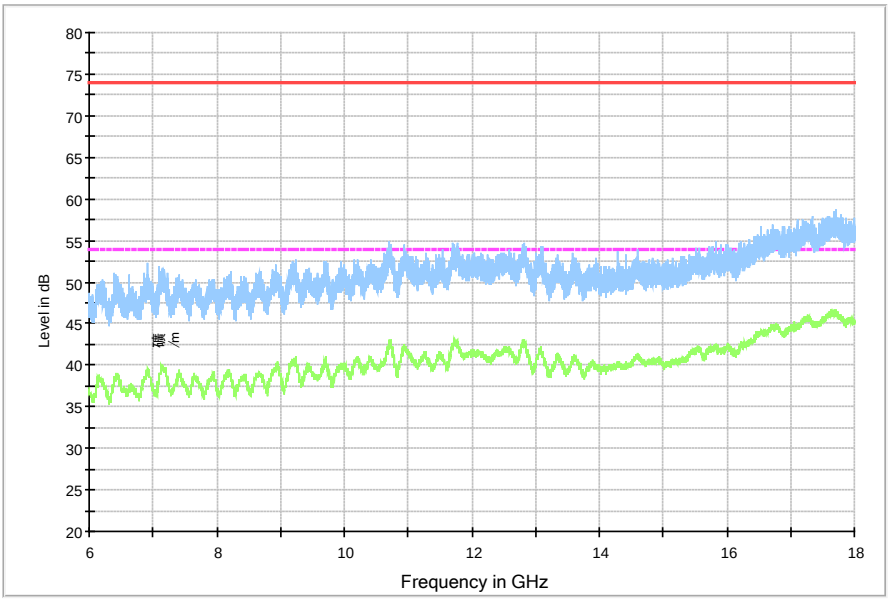


Fig. 182 Radiated Spurious Emission (802.11ac-HT40, ch102, 6 GHz-18 GHz)

RE 30MHz-1GHz

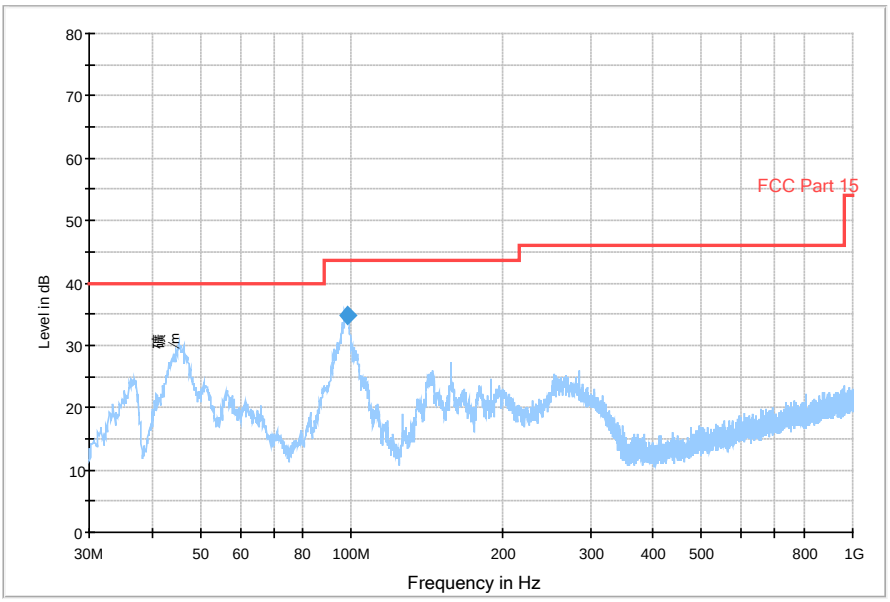


Fig. 183 Radiated Spurious Emission (802.11ac-HT40, ch118, 30 MHz-1 GHz)

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
98.094000	34.7	100.0	V	304.0	-25.5	8.8	43.5	

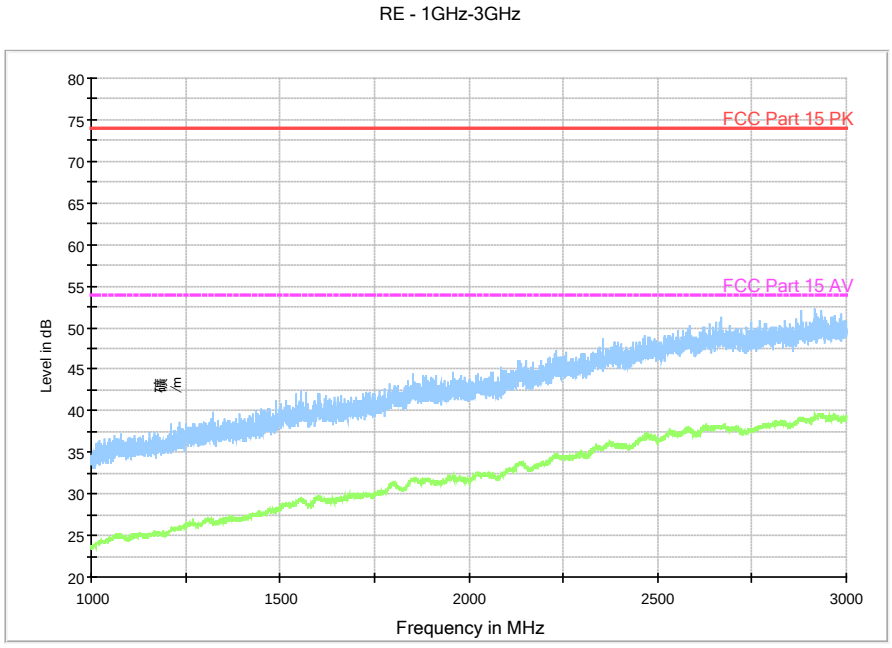
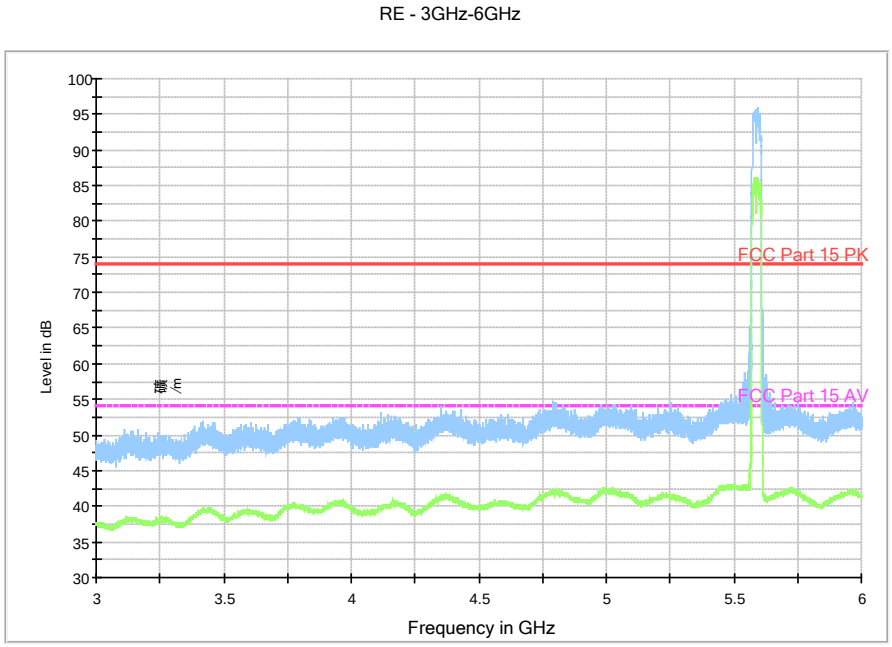


Fig. 184 Radiated Spurious Emission (802.11ac-HT40, ch118, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 185 Radiated Spurious Emission (802.11ac-HT40, ch118, 3 GHz-6 GHz)

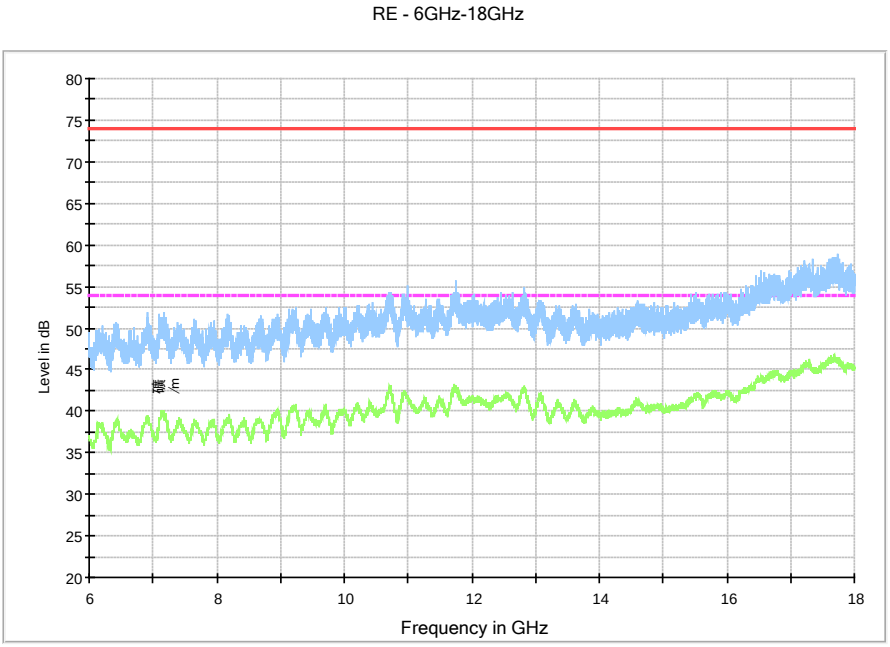


Fig. 186 Radiated Spurious Emission (802.11ac-HT40, ch118, 6 GHz-18 GHz)

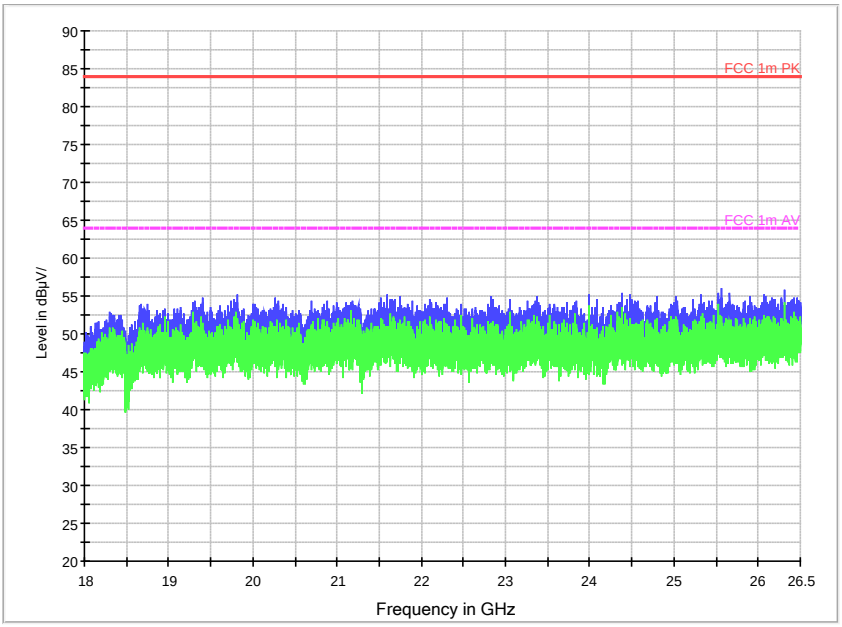


Fig. 187 Radiated Spurious Emission (802.11ac-HT40, ch118, 18 GHz-26.5 GHz)

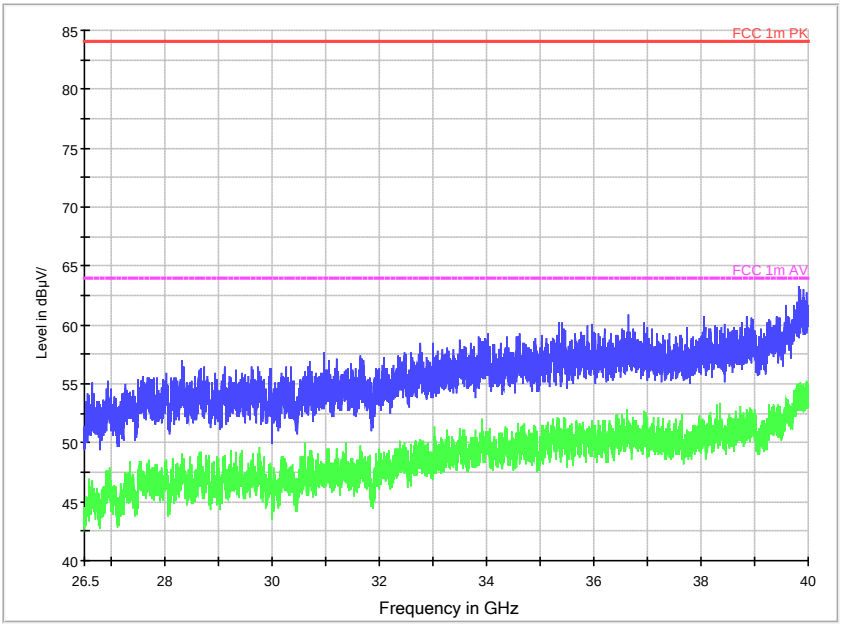


Fig. 188 Radiated Spurious Emission (802.11ac-HT40, ch118, 26.5 GHz-40 GHz)

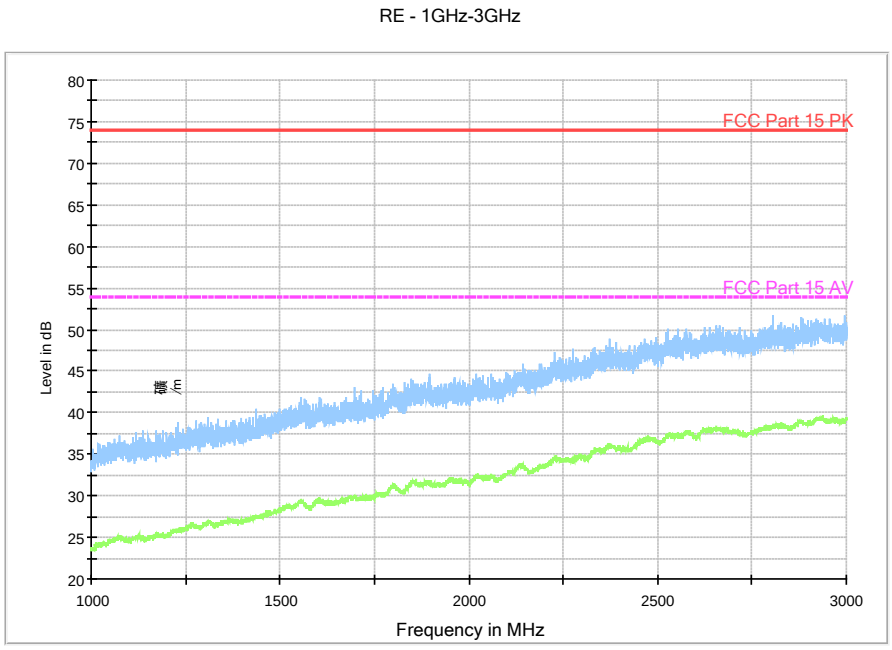
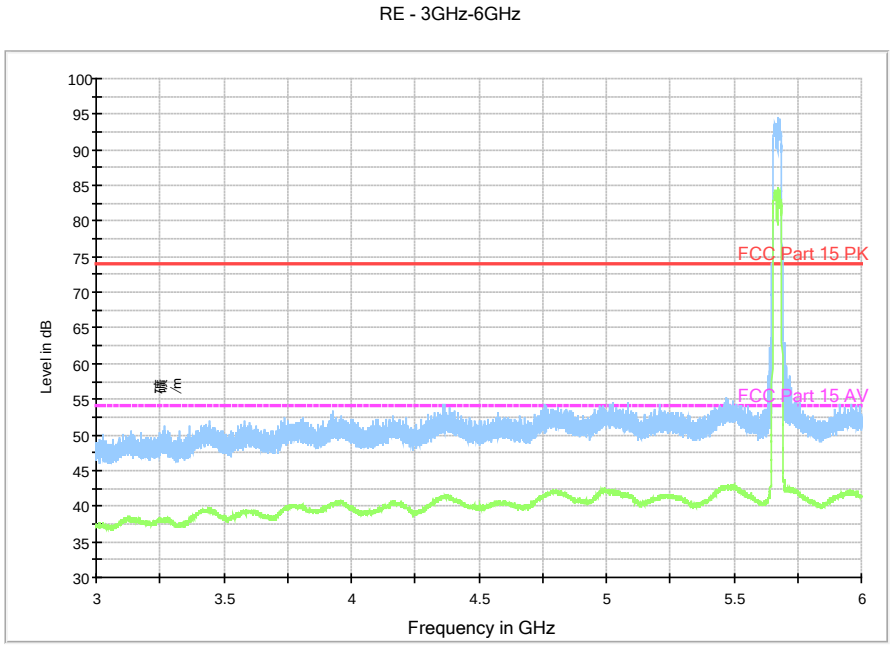


Fig. 189 Radiated Spurious Emission (802.11ac-HT40, ch134, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 190 Radiated Spurious Emission (802.11ac-HT40, ch134, 3 GHz-6 GHz)

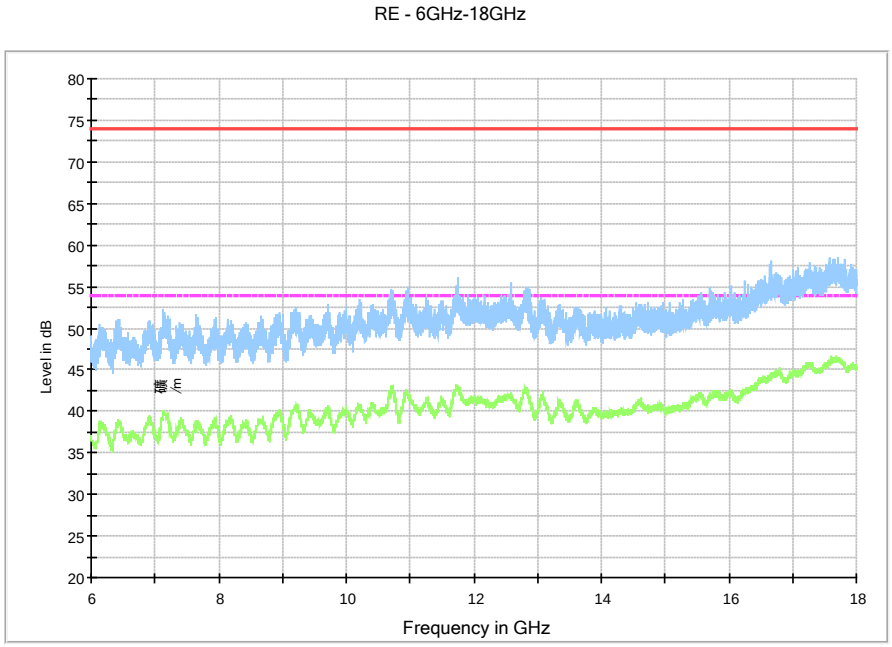


Fig. 191 Radiated Spurious Emission (802.11ac-HT40, ch134, 6 GHz-18 GHz)

802.11ac-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac –HT80	42(5210MHz)	1 GHz ~ 3 GHz	Fig.192	P
		3 GHz ~ 6 GHz	Fig.193	P
		6 GHz ~ 18 GHz	Fig.194	P
	58(5290MHz)	30 MHz ~1 GHz	Fig.195	P
		1 GHz ~ 3 GHz	Fig.196	P
		3 GHz ~ 6 GHz	Fig.197	P
		6 GHz ~ 18 GHz	Fig.198	P
		18 GHz ~ 26.5 GHz	Fig.199	P
		26.5 GHz ~ 40 GHz	Fig.200	P
	106(5530MHz)	1 GHz ~ 3 GHz	Fig.201	P
		3 GHz ~ 6 GHz	Fig.202	P
		6 GHz ~ 18 GHz	Fig.203	P

Conclusion: PASS

Note:

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

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

The measurement results are obtained as described below:

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

802.11ac-HT80

Channel 42

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5146.600	43.2	-19.5	34.5	28.247	H
17631.600	46.6	-14.9	41.2	20.318	V
17687.400	46.6	-13.0	41.2	18.405	H
17656.200	46.6	-13.0	41.2	18.405	H
17625.600	46.6	-14.9	41.2	20.318	H
17636.400	46.5	-13.0	41.2	18.305	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5148.560	58.3	-19.5	34.5	43.347	V
17511.000	58.8	-14.9	41.2	32.518	V
17580.600	58.4	-14.9	41.2	32.118	V
17629.200	58.4	-14.9	41.2	32.118	V
17635.200	58.2	-13.0	41.2	30.005	H
17289.000	58.2	-13.9	41.2	30.923	H

Channel 58

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5352.240	38.4	-19.6	34.4	23.570	V
17700.600	46.7	-13.0	41.2	18.505	H
17679.600	46.6	-13.0	41.2	18.405	H
17684.400	46.6	-13.0	41.2	18.405	H
17655.600	46.6	-13.0	41.2	18.405	H
17707.800	46.6	-13.0	41.2	18.405	V

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5357.530	52.7	-19.6	34.4	37.870	V
17290.800	58.4	-13.9	41.2	31.123	H
17671.200	58.2	-13.0	41.2	30.005	H
17594.400	58.2	-14.9	41.2	31.918	H
17629.800	58.1	-14.9	41.2	31.818	V
17892.600	58.1	-13.5	41.0	30.562	H

Channel 106

Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5459.980	44.0	-16.9	34.4	26.515	V
17667.000	46.7	-13.0	41.2	18.505	V
17635.200	46.6	-13.0	41.2	18.405	V
17702.400	46.6	-13.0	41.2	18.405	V
17658.600	46.5	-13.0	41.2	18.305	V
17694.000	46.5	-13.0	41.2	18.305	H

Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5450.320	58.0	-16.9	34.4	40.515	V
17614.200	58.6	-14.9	41.2	32.318	H
17730.000	58.5	-13.0	41.2	30.305	H
17650.800	58.4	-13.0	41.2	30.205	V
17740.200	58.2	-13.0	41.2	30.005	H
17698.200	58.2	-13.0	41.2	30.005	V

Test graphs as below:

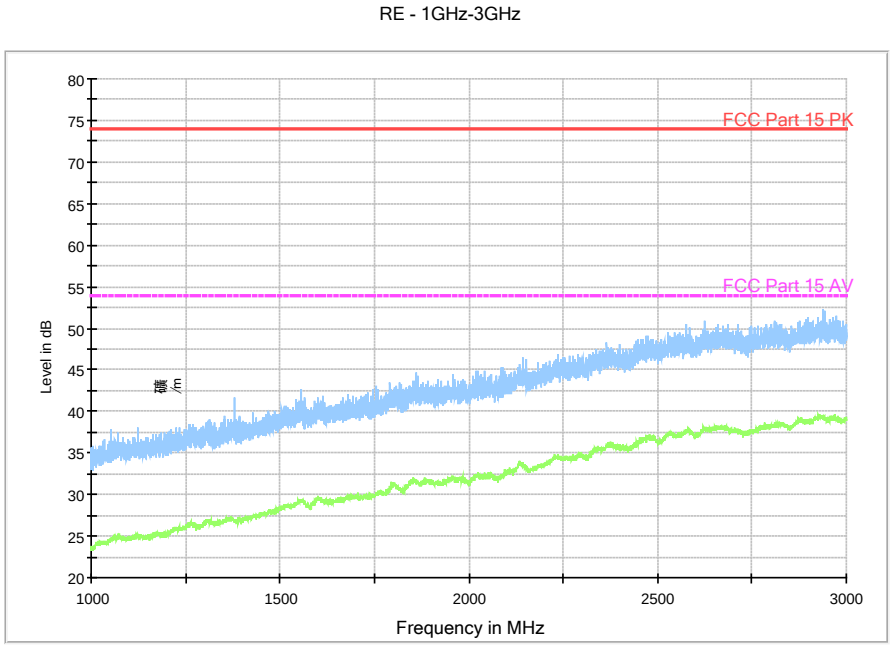
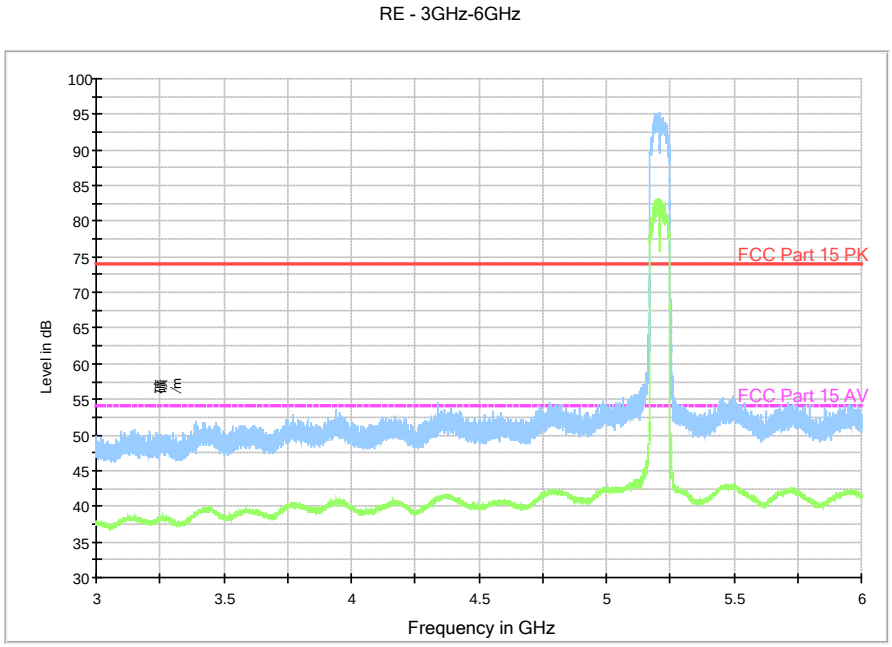


Fig. 192 Radiated Spurious Emission (802.11ac-HT80, ch42, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 193 Radiated Spurious Emission (802.11ac-HT80, ch42, 3 GHz-6 GHz)

RE - 6GHz-18GHz

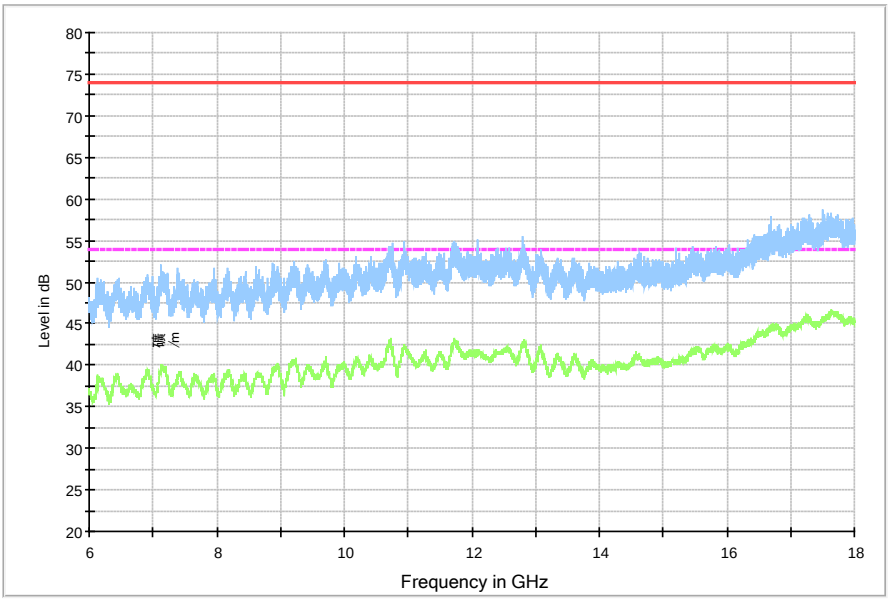


Fig. 194 Radiated Spurious Emission (802.11ac-HT80, ch42, 6 GHz-18 GHz)

RE 30MHz-1GHz

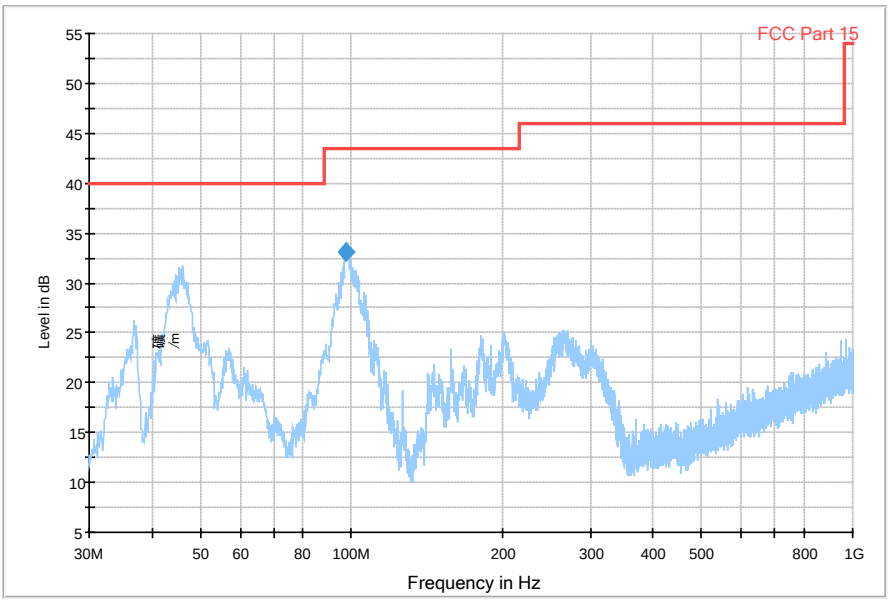


Fig. 195 Radiated Spurious Emission (802.11ac-HT80, ch58, 30 MHz-1 GHz)

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
97.512000	33.1	100.0	V	307.0	-25.5	10.4	43.5	

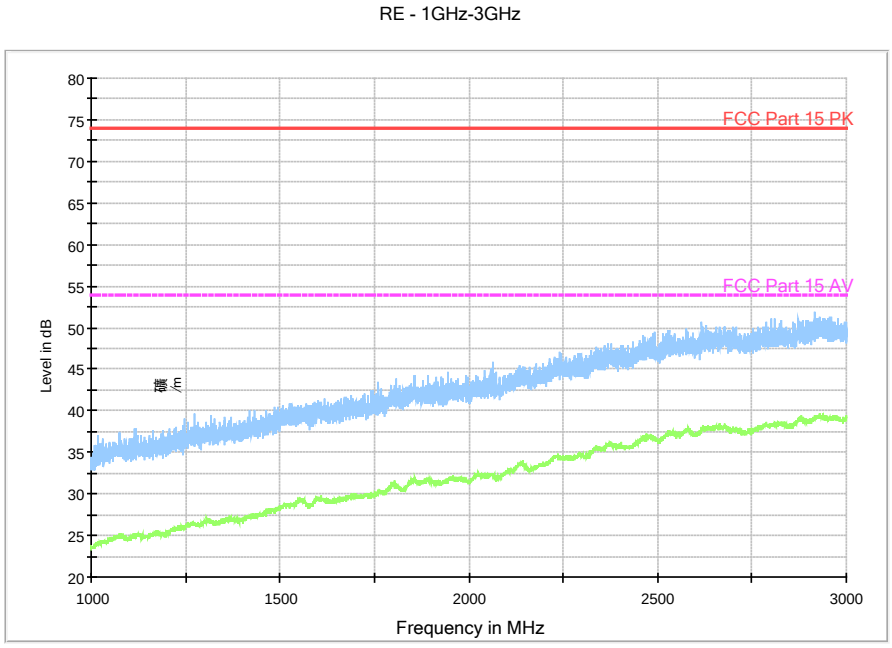
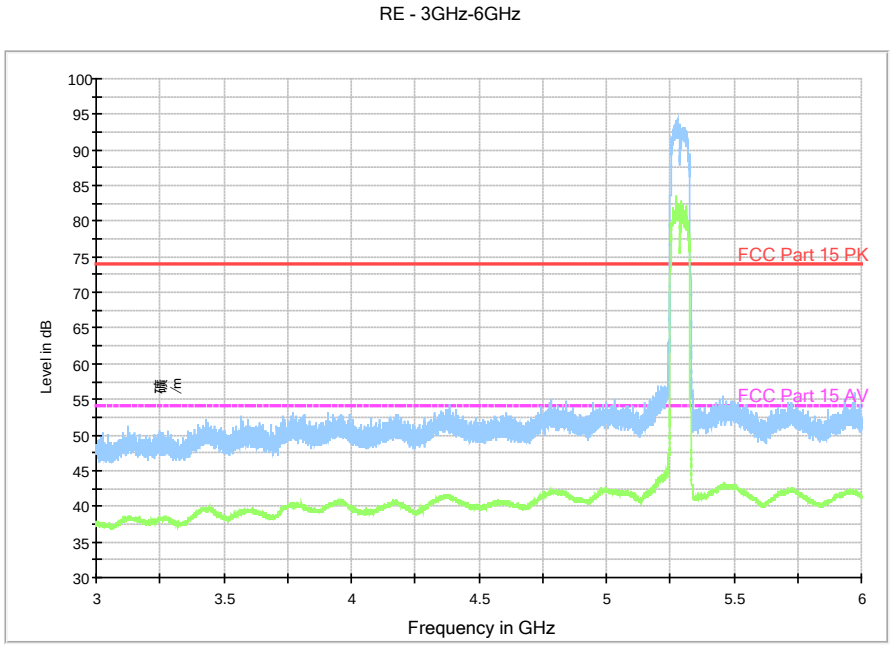


Fig. 196 Radiated Spurious Emission (802.11ac-HT80, ch58, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 197 Radiated Spurious Emission (802.11ac-HT80, ch58, 3 GHz-6 GHz)

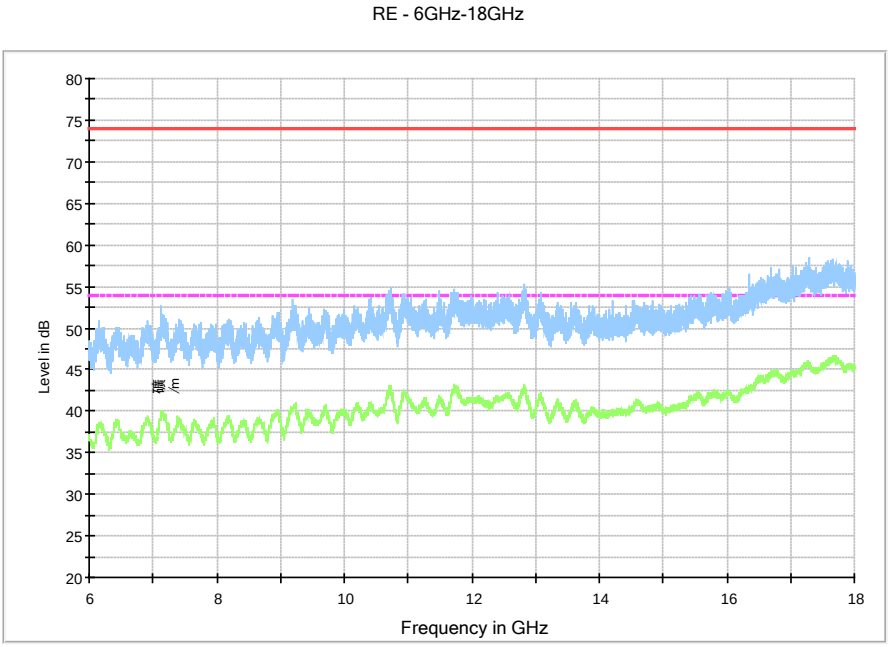


Fig. 198 Radiated Spurious Emission (802.11ac-HT80, ch58, 6 GHz-18 GHz)

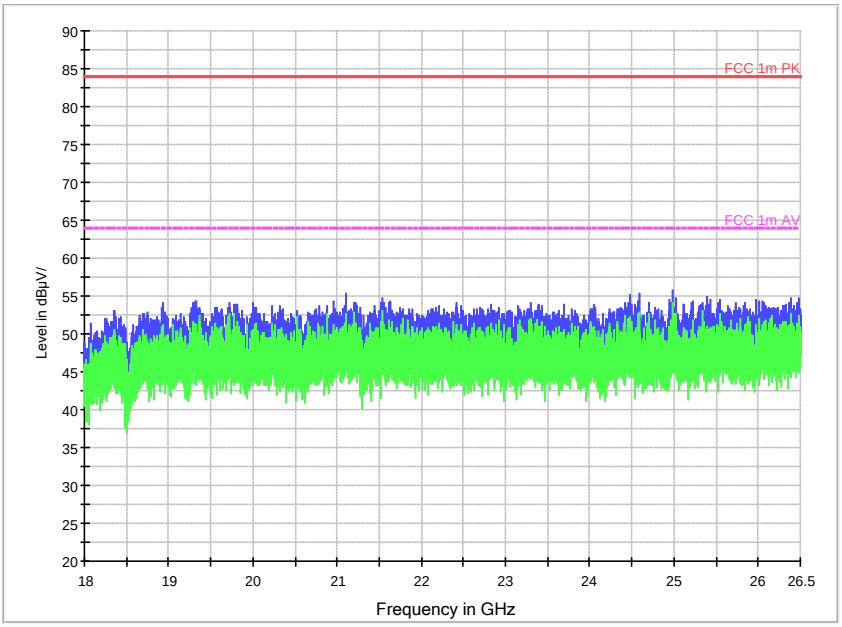


Fig. 199 Radiated Spurious Emission (802.11ac-HT80, ch58, 18 GHz-26.5 GHz)

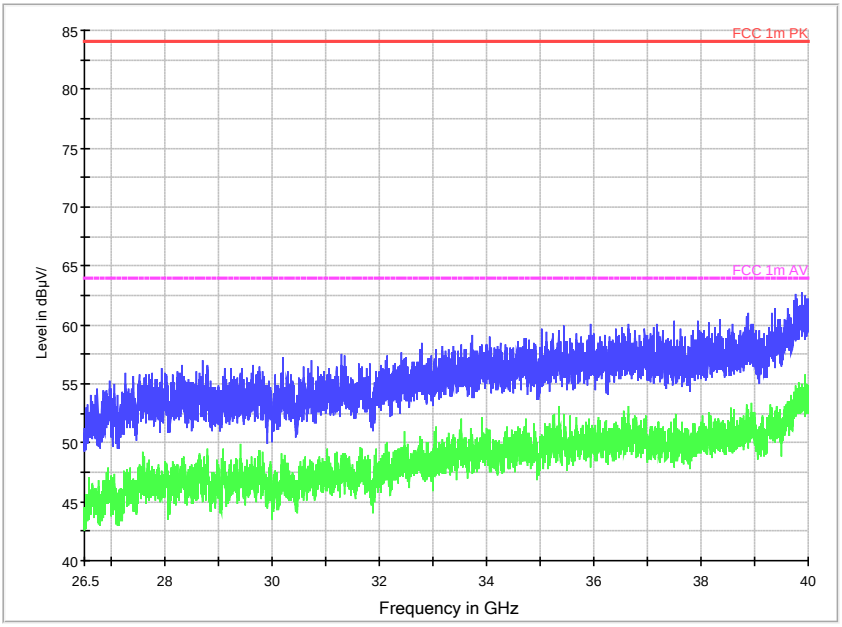


Fig. 200 Radiated Spurious Emission (802.11ac-HT80, ch58, 26.5 GHz-40 GHz)

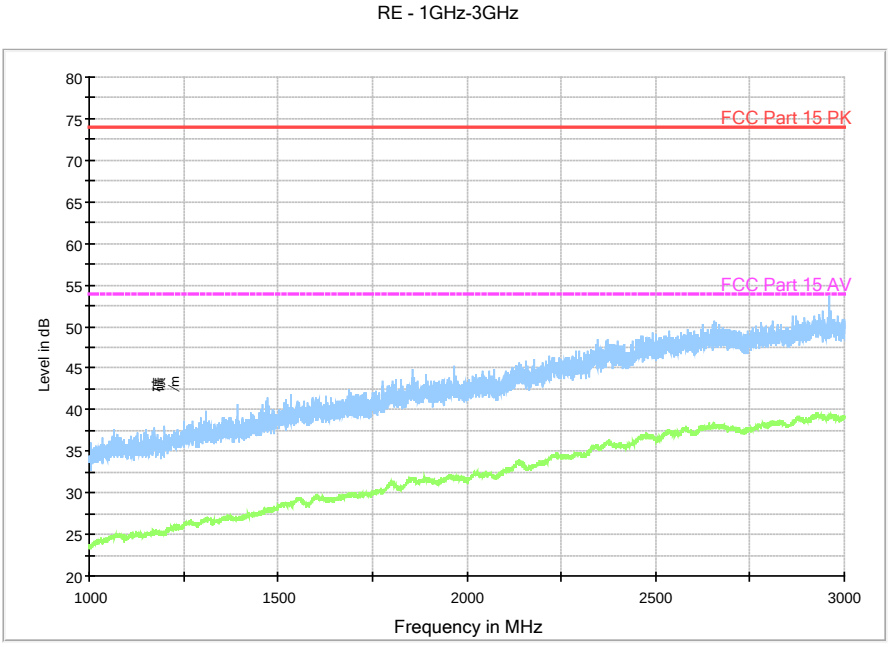
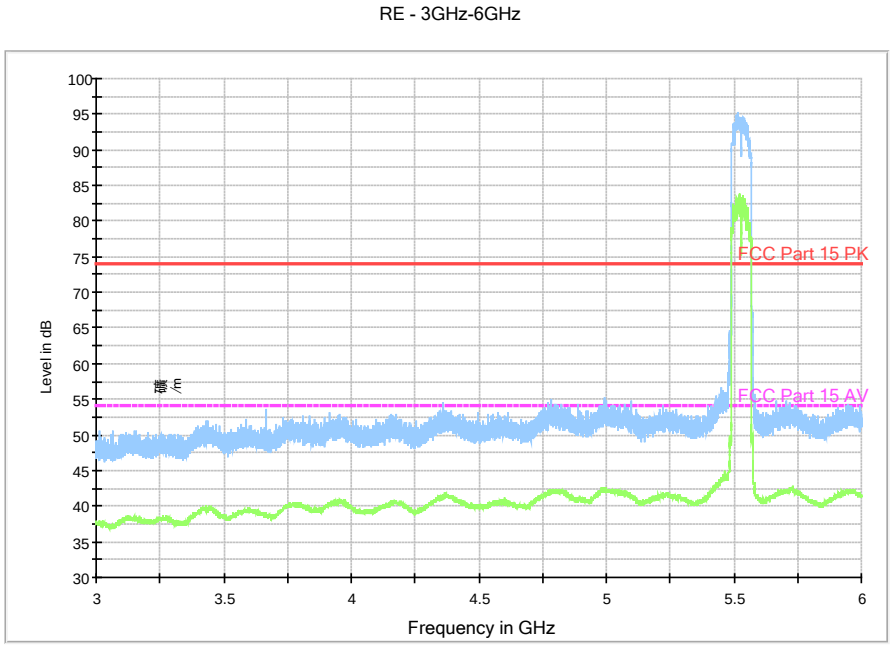


Fig. 201 Radiated Spurious Emission (802.11ac-HT80, ch106, 1 GHz-3 GHz)



Note: the spike over the limit is the WLAN carrier frequency and coming from the radio equipment.

Fig. 202 Radiated Spurious Emission (802.11ac-HT80, ch106, 3 GHz-6 GHz)

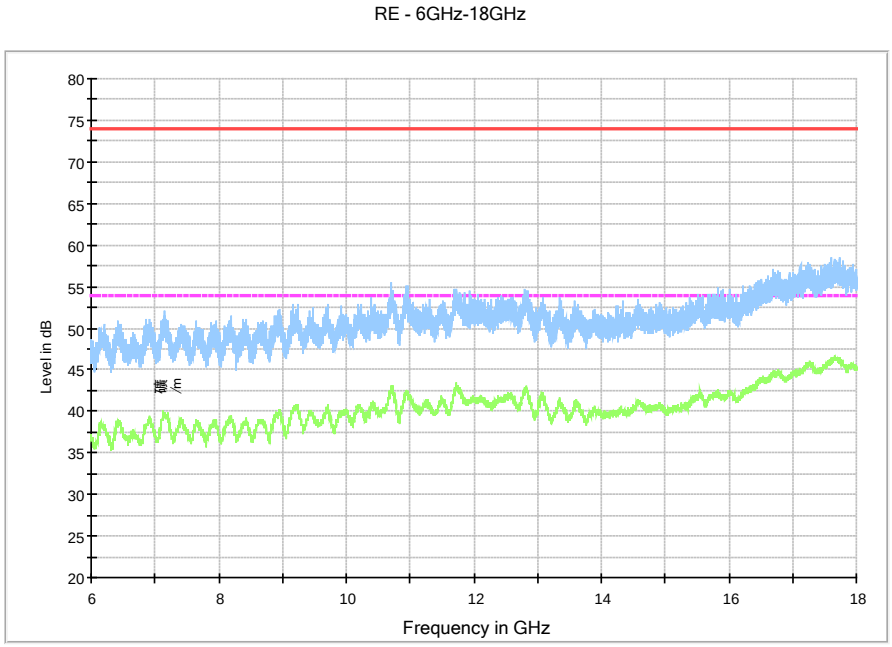


Fig. 203 Radiated Spurious Emission (802.11ac-HT80, ch106, 6 GHz-18 GHz)

A.4. Spurious Emissions Radiated < 30MHz

Measurement Limit (15.209):

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 ANSI C63.10.

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

Measurement uncertainty:
Expanded measurement uncertainty for this test item is U =2.6dB, k=2.

Measurement Results:

Mode	Frequency Range	Test Results	Conclusion
802.11a	9 kHz ~30 MHz	Fig.204	P

Conclusion: PASS
Test graphs as below:

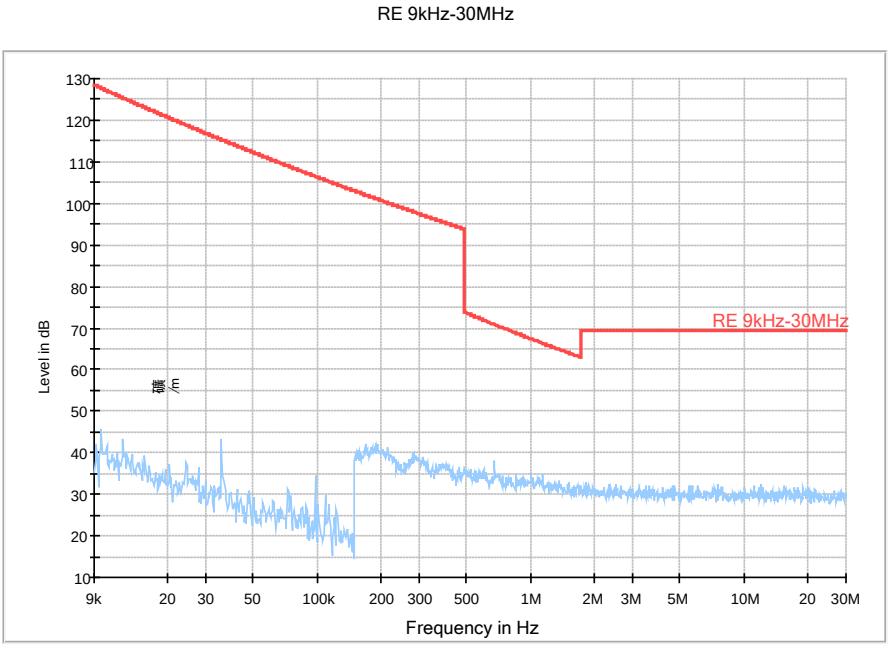


Fig. 204 Radiated Spurious Emission (802.11a, ch40, 9 kHz ~30 MHz)

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