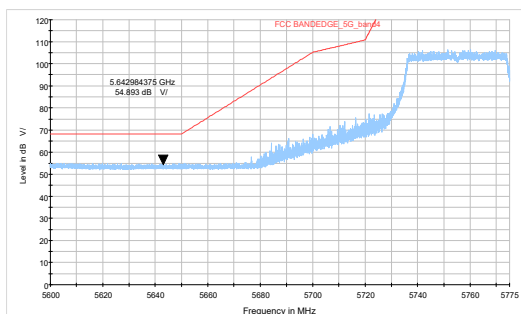
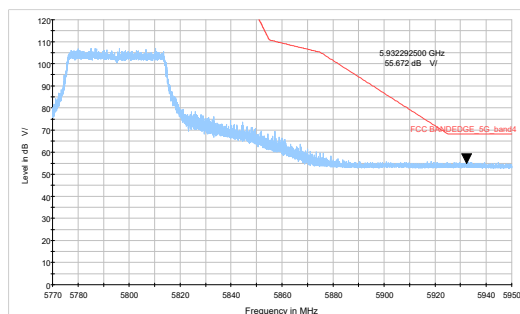


802.11ax HE40-Channel 151: Peak



802.11ax HE40-Channel 159: Peak



Result of RE

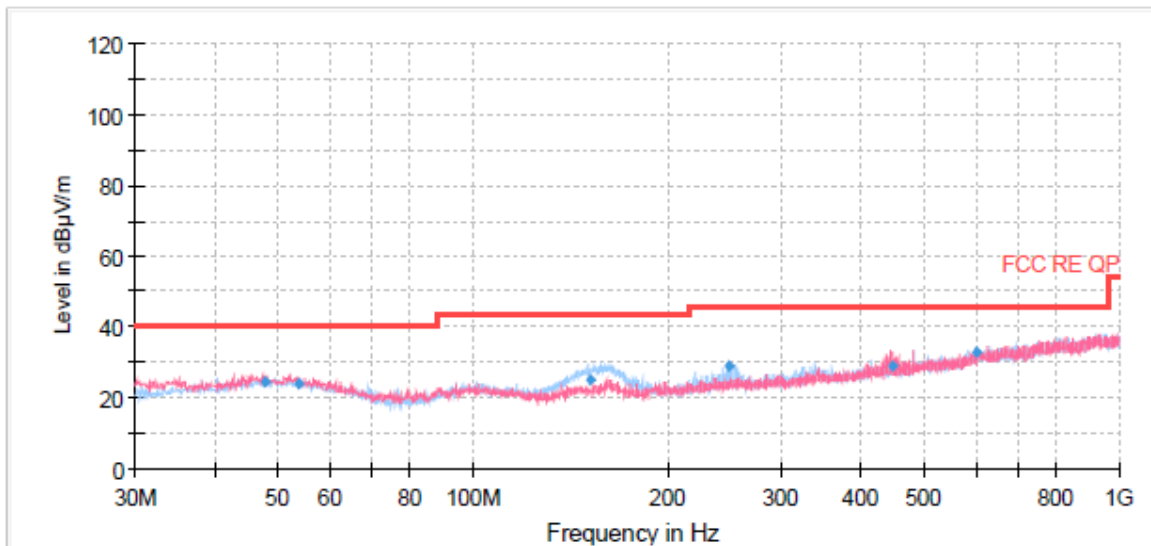
Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz are more than 20dB below the limit are not reported.

A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11ax HE20, Channel 100 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Continuous TX mode:

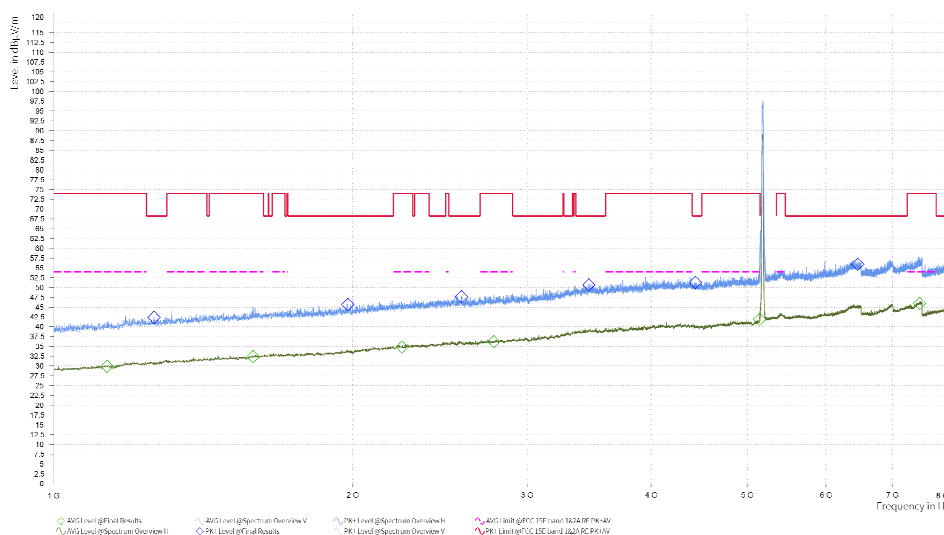


Radiates Emission from 30MHz to 1GHz

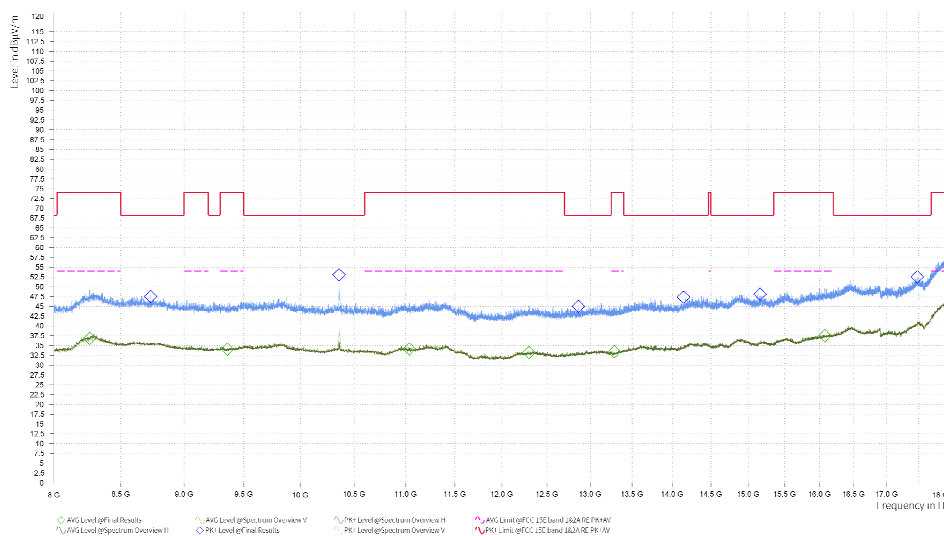
Frequency (MHz)	Quasi-Peak ($\text{dB}\mu\text{V/m}$)	Limit ($\text{dB}\mu\text{V/m}$)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
47.87	24.41	40.00	15.59	123.0	V	51.00	20
53.57	24.14	40.00	15.86	113.0	H	54.00	20
151.69	25.10	43.50	18.40	212.0	H	1.00	15
248.90	29.12	46.00	16.88	117.0	H	214.00	20
444.67	29.17	46.00	16.83	119.0	V	214.00	24
601.08	32.75	46.00	13.25	111.0	V	94.00	28

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit – Quasi-Peak



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



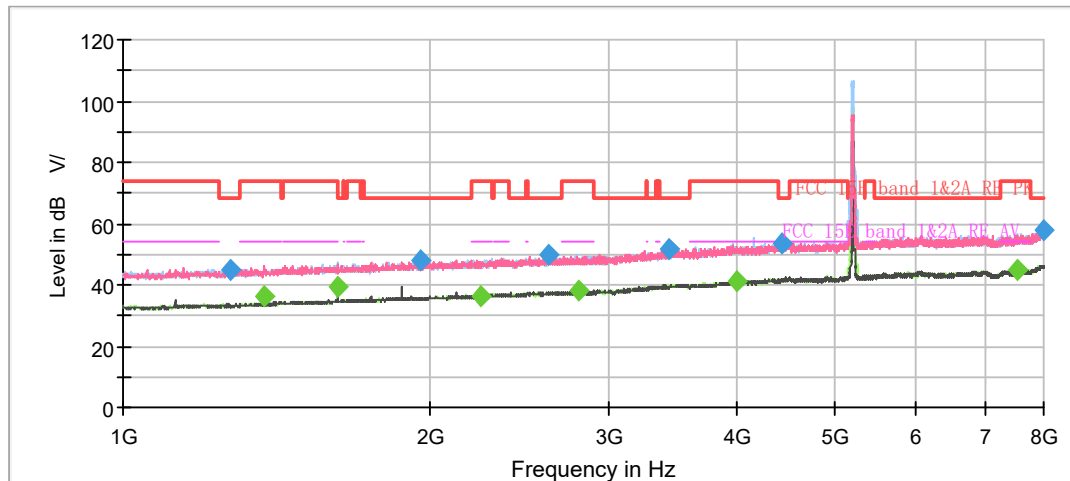
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	MaxPeak Limit (dBμV/m)	MaxPeak Margin (dB)	Average (dBμV/m)	Average Limit (dBμV/m)	Average Margin (dB)	Meas. Time (s)	Pol	Azimuth (deg)	Height (m)	Corr. (dB/m)
1,131.250	---	---	---	29.88	54.00	24.12	1.000	H	0	2.00	-5.69
1,261.625	42.37	68.20	25.83	---	---	---	1.000	H	79.4	1.00	-4.31
1,588.000	---	---	---	32.32	54.00	21.68	1.000	H	100.2	1.00	-1.81
1,978.250	45.69	68.20	22.51	---	---	---	1.000	V	101.7	1.00	0.55
2,242.500	---	---	---	34.82	54.00	19.18	1.000	H	129.5	2.00	1.88
2,575.000	47.64	68.20	20.56	---	---	---	1.000	H	1.4	1.00	3.17
2,775.375	---	---	---	36.18	54.00	17.82	1.000	H	4.3	1.00	3.55
3,460.500	50.60	68.20	17.60	---	---	---	1.000	H	136.3	2.00	6.40
4,433.500	51.24	68.20	16.96	---	---	---	1.000	V	88	1.00	8.17
5,144.875	---	---	---	41.91	54.00	12.09	1.000	H	204.8	2.00	10.43
6,459.125	55.91	68.20	12.29	---	---	---	1.000	V	314.4	1.00	12.92
7,455.750	---	---	---	45.91	54.00	8.09	1.000	V	348.5	1.00	13.29

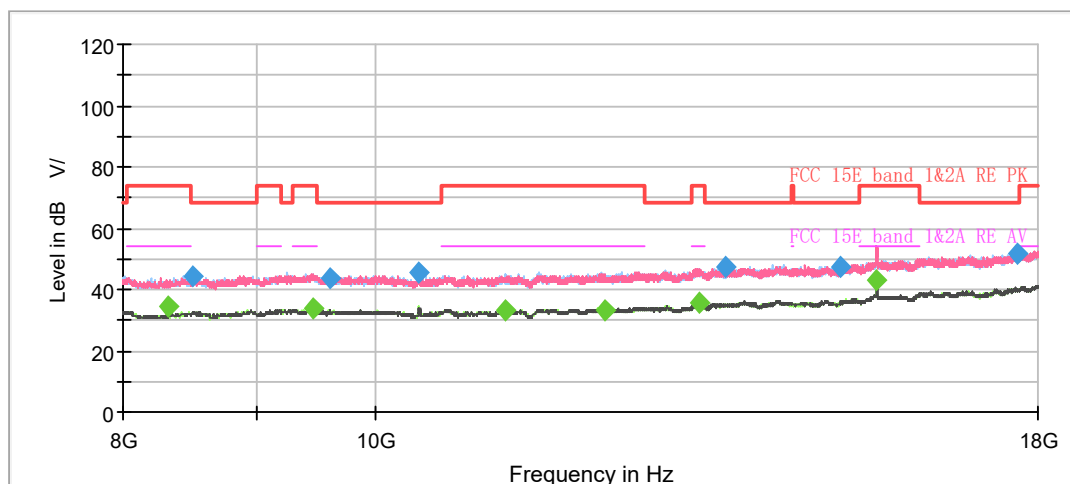
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH40



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



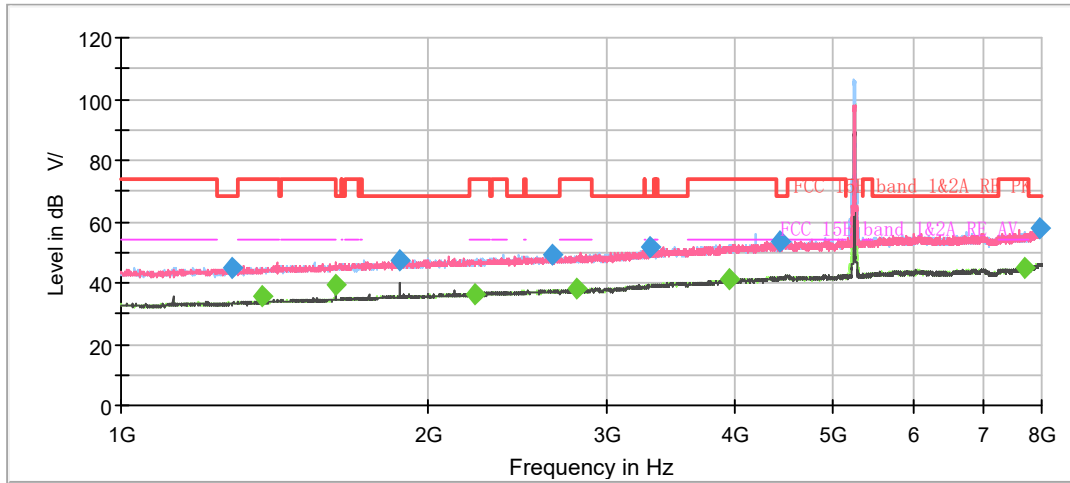
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1273.000000	44.97	---	68.20	23.23	500.0	100.0	H	35.0	3.2
1374.500000	---	36.11	54.00	17.89	500.0	200.0	V	218.0	3.8
1624.750000	---	39.24	54.00	14.76	500.0	200.0	V	181.0	5.0
1959.000000	48.01	---	68.20	20.19	500.0	100.0	H	118.0	6.3
2246.875000	---	36.31	54.00	17.69	500.0	100.0	H	8.0	7.4
2614.375000	49.94	---	68.20	18.26	500.0	100.0	H	212.0	8.5
2798.125000	---	38.03	54.00	15.97	500.0	100.0	V	0.0	9.0
3431.625000	51.88	---	68.20	16.32	500.0	200.0	H	352.0	10.9
3993.375000	---	41.18	54.00	12.82	500.0	100.0	H	142.0	12.2
4437.000000	53.32	---	68.20	14.88	500.0	200.0	H	329.0	13.1
7540.625000	---	45.02	54.00	8.98	500.0	100.0	H	8.0	18.1
7999.125000	57.61	---	68.20	10.59	500.0	200.0	H	341.0	19.9

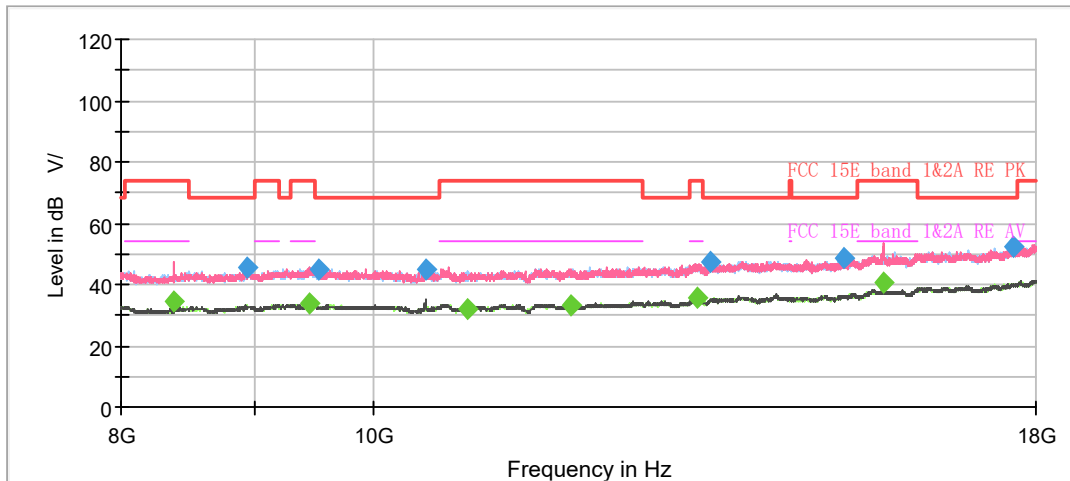
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH48



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



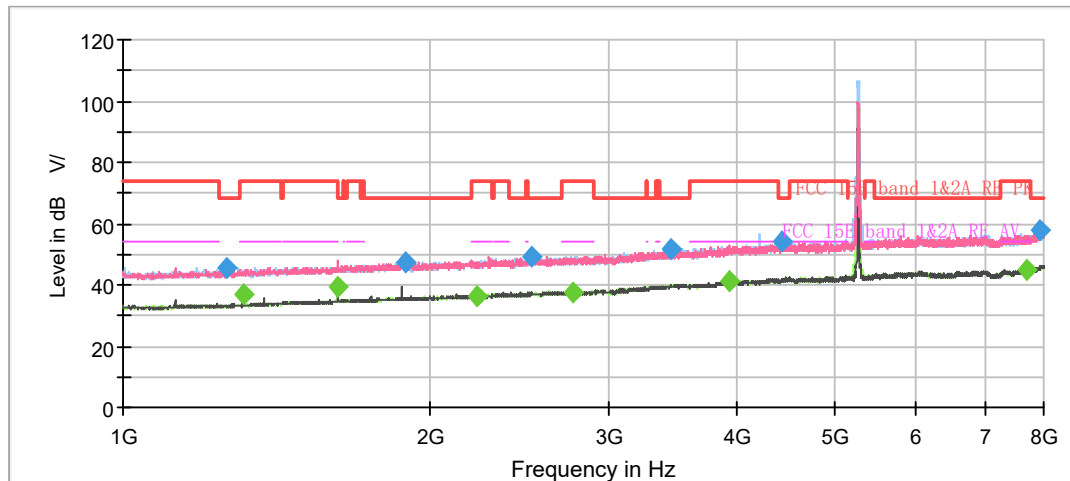
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1284.375000	45.20	---	68.20	23.00	500.0	100.0	H	123.0	3.3
1374.500000	---	35.76	54.00	18.24	500.0	200.0	V	201.0	3.8
1624.750000	---	39.65	54.00	14.35	500.0	200.0	V	171.0	5.0
1874.125000	47.50	---	68.20	20.70	500.0	200.0	V	195.0	6.1
2223.250000	---	36.21	54.00	17.79	500.0	100.0	H	202.0	7.3
2650.250000	49.52	---	68.20	18.68	500.0	200.0	H	248.0	8.6
2794.625000	---	37.93	54.00	16.07	500.0	200.0	V	135.0	9.0
3302.125000	51.60	---	68.20	16.60	500.0	200.0	H	194.0	10.5
3949.625000	---	41.45	54.00	12.55	500.0	100.0	H	202.0	12.1
4431.750000	53.29	---	68.20	14.91	500.0	100.0	H	178.0	13.1
7706.875000	---	44.86	54.00	9.14	500.0	100.0	H	348.0	18.9
7961.500000	57.67	---	68.20	10.53	500.0	100.0	V	215.0	19.7

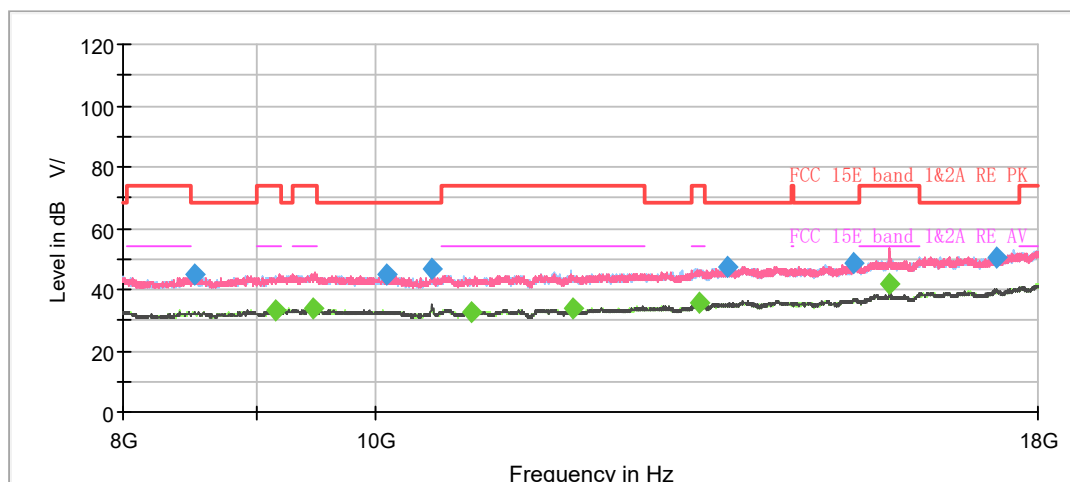
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH52



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



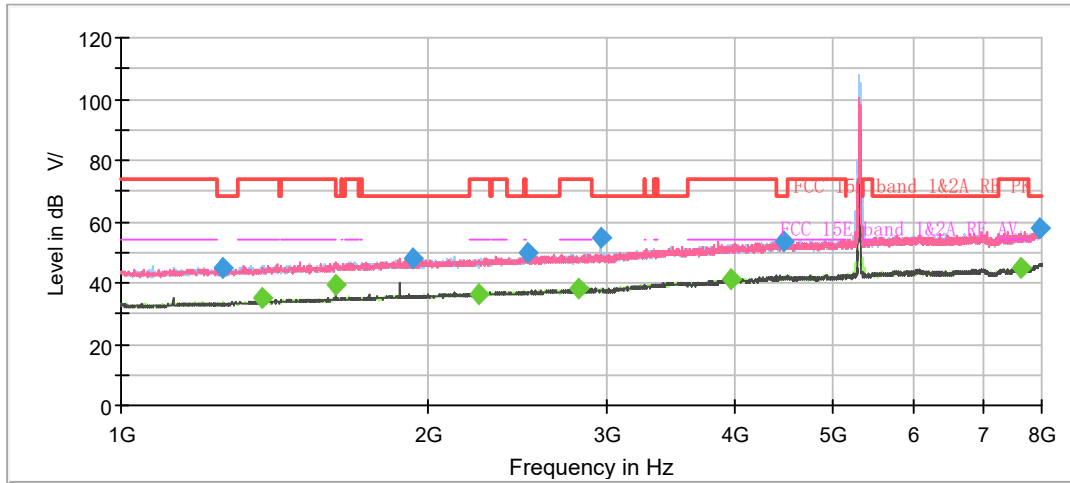
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1265.125000	45.43	---	68.20	22.77	500.0	200.0	V	296.0	3.2
1312.375000	---	36.86	54.00	17.14	500.0	100.0	H	78.0	3.4
1624.750000	---	39.65	54.00	14.35	500.0	200.0	V	189.0	5.0
1889.000000	47.40	---	68.20	20.80	500.0	200.0	V	152.0	6.1
2220.625000	---	36.33	54.00	17.67	500.0	100.0	V	203.0	7.3
2515.500000	49.35	---	68.20	18.85	500.0	200.0	V	171.0	8.3
2757.875000	---	37.80	54.00	16.20	500.0	100.0	H	90.0	8.8
3450.875000	51.53	---	68.20	16.67	500.0	200.0	V	221.0	10.9
3940.000000	---	41.19	54.00	12.81	500.0	100.0	V	54.0	12.0
4428.250000	53.88	---	68.20	14.32	500.0	100.0	H	115.0	13.1
7704.250000	---	44.82	54.00	9.18	500.0	200.0	V	133.0	18.8
7940.500000	57.70	---	68.20	10.50	500.0	100.0	V	307.0	19.6

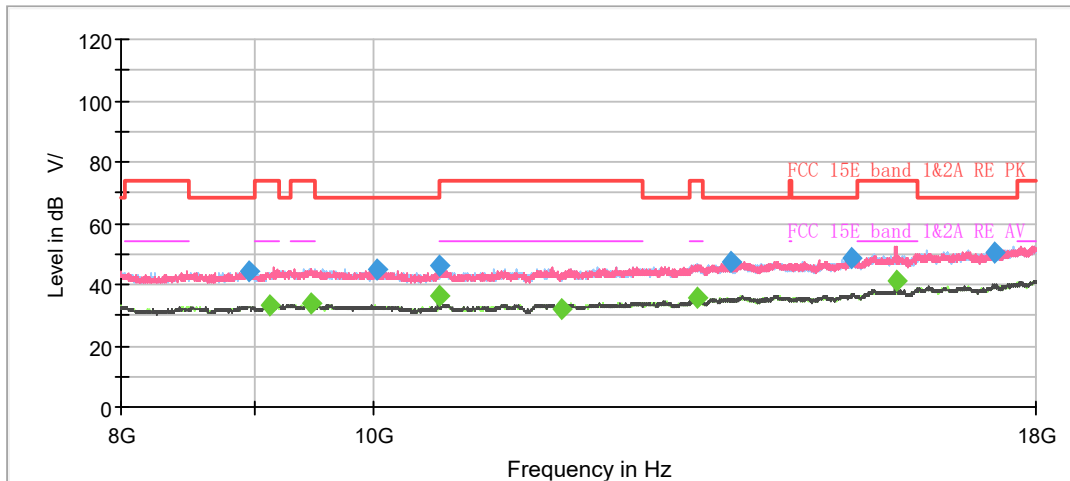
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH60



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



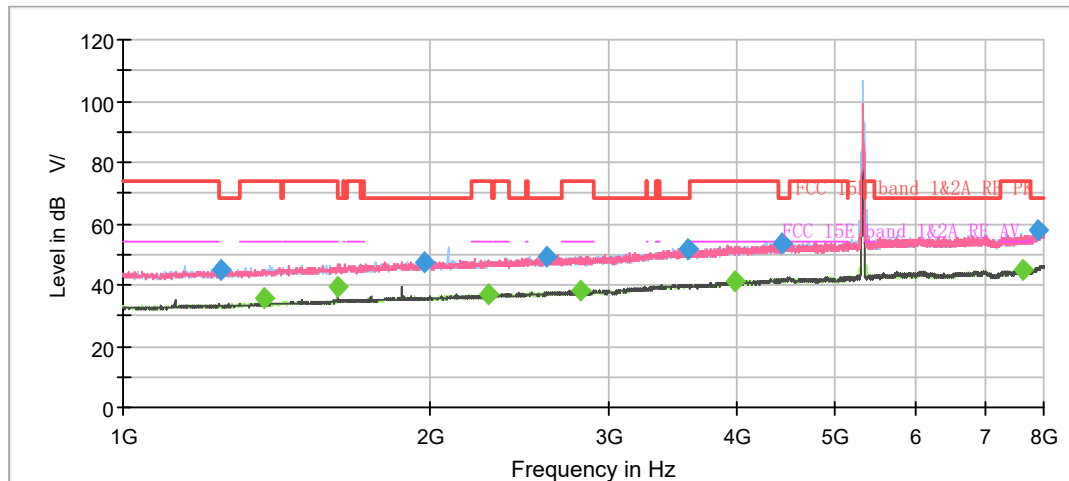
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1260.750000	44.83	---	68.20	23.37	500.0	100.0	H	44.0	3.2
1374.500000	---	35.38	54.00	18.62	500.0	200.0	V	206.0	3.8
1624.750000	---	39.34	54.00	14.66	500.0	200.0	V	199.0	5.0
1929.250000	48.06	---	68.20	20.14	500.0	200.0	H	287.0	6.2
2244.250000	---	36.20	54.00	17.80	500.0	200.0	H	116.0	7.4
2506.750000	49.96	---	68.20	18.24	500.0	200.0	H	18.0	8.2
2810.375000	---	38.13	54.00	15.87	500.0	200.0	H	280.0	9.0
2952.125000	54.86	---	68.20	13.34	500.0	200.0	H	134.0	9.3
3974.125000	---	41.26	54.00	12.74	500.0	100.0	H	247.0	12.1
4462.375000	53.28	---	68.20	14.92	500.0	100.0	H	44.0	13.2
7629.875000	---	44.94	54.00	9.06	500.0	200.0	H	343.0	18.5
7949.250000	57.59	---	68.20	10.61	500.0	200.0	H	318.0	19.7

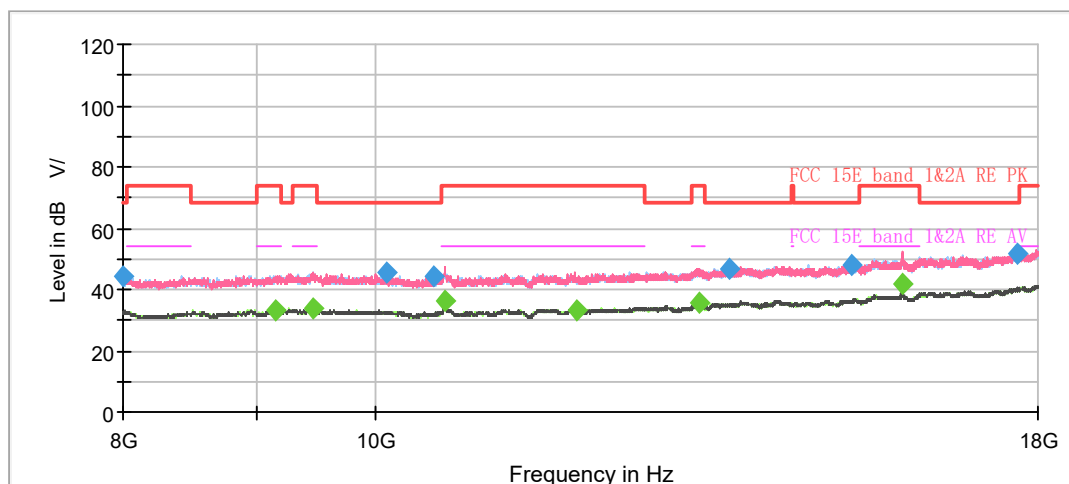
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH64



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



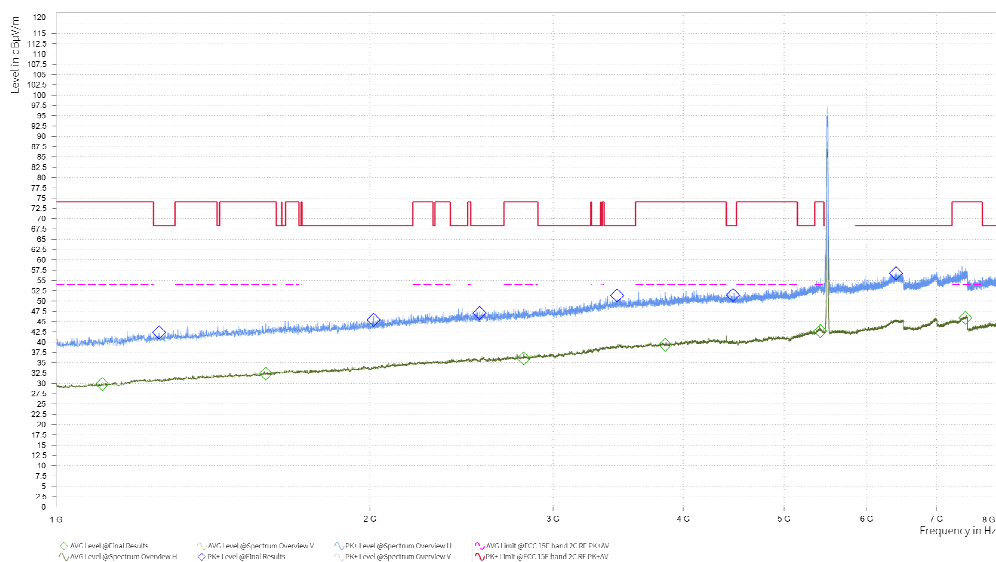
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1248.500000	45.04	---	68.20	23.16	500.0	100.0	V	306.0	3.1
1374.500000	---	35.74	54.00	18.26	500.0	200.0	V	187.0	3.8
1624.750000	---	39.33	54.00	14.67	500.0	200.0	V	193.0	5.0
1973.000000	47.47	---	68.20	20.73	500.0	200.0	H	314.0	6.4
2284.500000	---	36.90	54.00	17.10	500.0	200.0	V	24.0	7.5
2603.000000	49.32	---	68.20	18.88	500.0	200.0	H	284.0	8.5
2813.875000	---	38.19	54.00	15.81	500.0	200.0	H	353.0	9.0
3576.875000	51.75	---	68.20	16.45	500.0	100.0	V	300.0	11.1
3980.250000	---	41.17	54.00	12.83	500.0	200.0	V	309.0	12.1
4428.250000	53.42	---	68.20	14.78	500.0	200.0	H	206.0	13.1
7624.625000	---	45.02	54.00	8.98	500.0	100.0	V	259.0	18.5
7889.750000	57.75	---	68.20	10.45	500.0	200.0	H	182.0	19.5

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

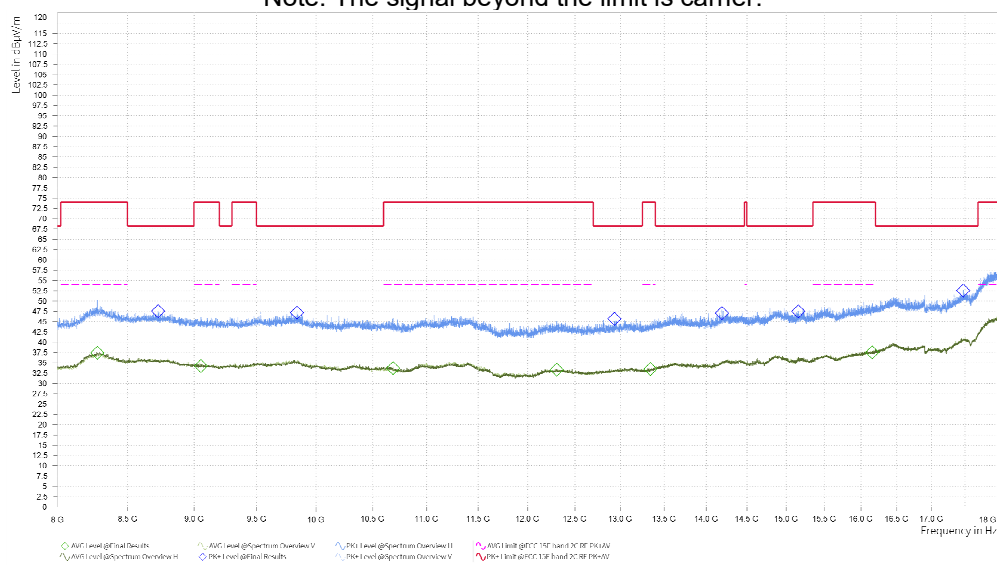
2. Margin = Limit –MAX Peak/ Average

802.11a CH100



Radiates Emission from 1GHz to 8GHz

Note: The signal beyond the limit is carrier.



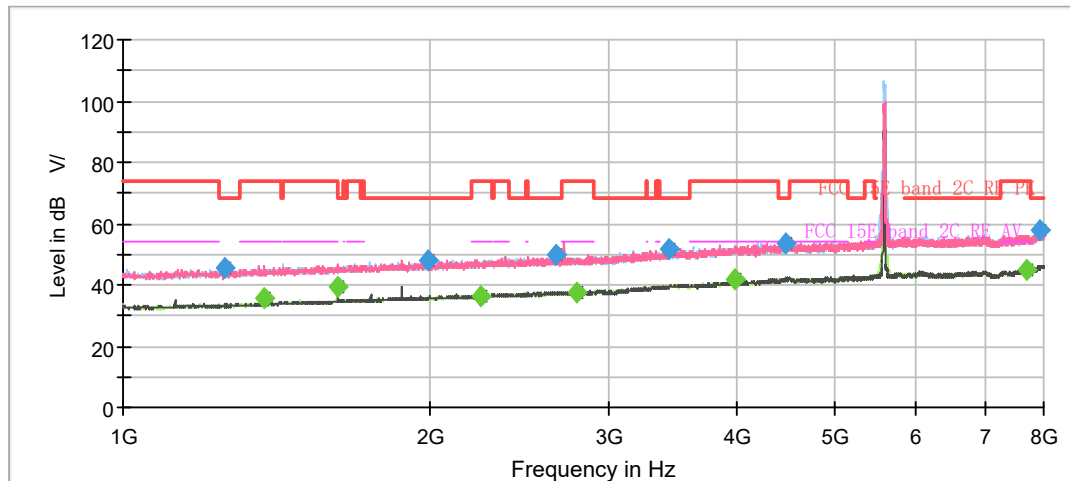
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	MaxPeak Limit (dBμV/m)	MaxPeak Margin (dB)	Average (dBμV/m)	Average Limit (dBμV/m)	Average Margin (dB)	Meas. Time (s)	Pol	Azimuth (deg)	Height (m)	Corr. (dB/m)
1,106.750	---	---	---	29.76	54.00	24.24	1.000	H	19.8	2.00	-6.00
1,254.625	42.34	68.20	25.86	---	---	---	1.000	H	293.9	2.00	-4.34
1,588.875	---	---	---	32.36	54.00	21.64	1.000	H	2.8	2.00	-1.81
2,016.750	45.40	68.20	22.80	---	---	---	1.000	H	211.8	2.00	0.61
2,549.625	47.07	68.20	21.13	---	---	---	1.000	H	170.6	2.00	2.81
2,810.375	---	---	---	36.03	54.00	17.97	1.000	H	360	2.00	3.69
3,456.125	51.29	68.20	16.91	---	---	---	1.000	H	26.9	2.00	6.38
3,842.875	---	---	---	39.34	54.00	14.66	1.000	H	245.9	2.00	6.96
4,465.875	51.42	68.20	16.78	---	---	---	1.000	V	279	1.00	8.17
5,416.125	---	---	---	42.71	54.00	11.29	1.000	H	355	2.00	11.59
6,403.125	56.69	68.20	11.51	---	---	---	1.000	H	109	2.00	13.25
7,465.375	---	---	---	45.86	54.00	8.14	1.000	H	280.3	2.00	13.25

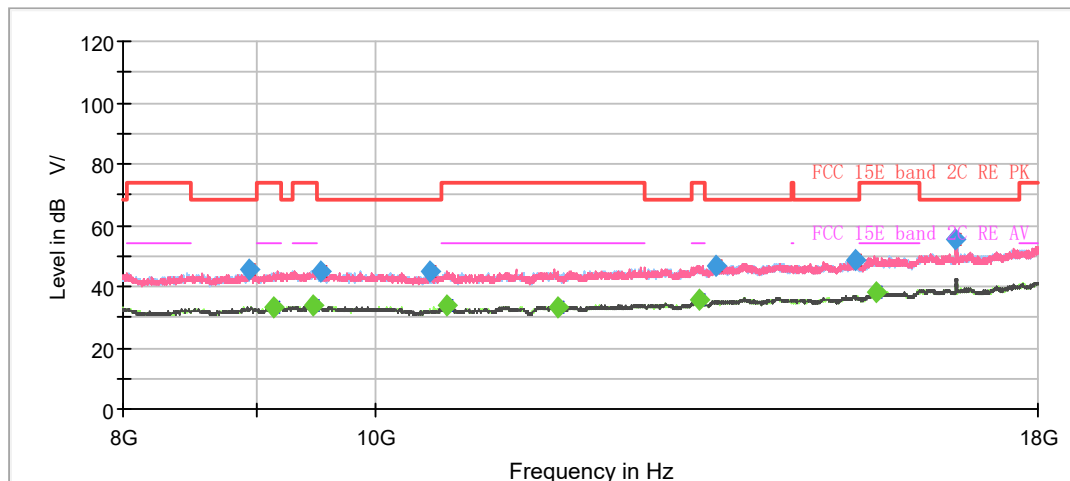
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH116



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



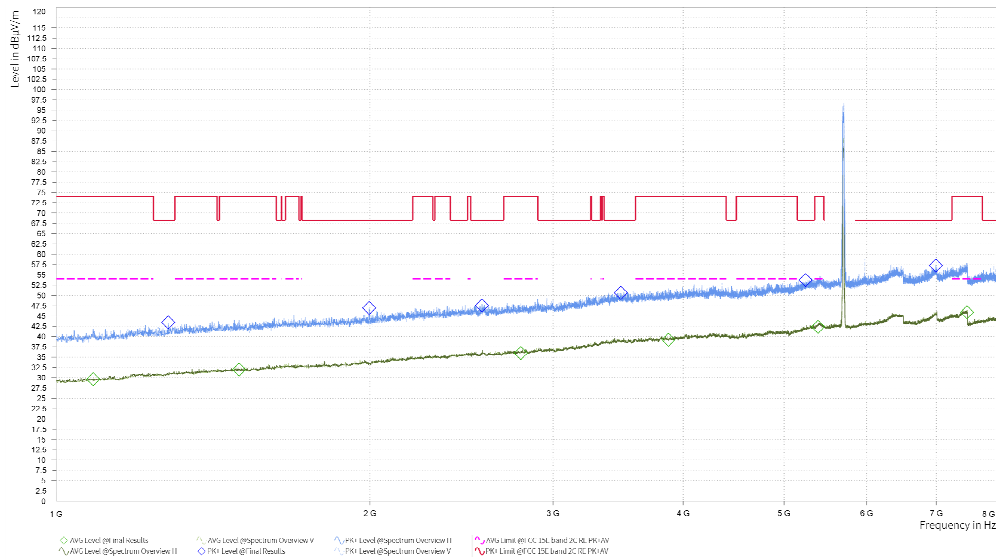
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1258.125000	45.26	---	68.20	22.94	500.0	200.0	H	248.0	3.1
1374.500000	---	35.71	54.00	18.29	500.0	200.0	V	174.0	3.8
1624.750000	---	39.50	54.00	14.50	500.0	200.0	V	174.0	5.0
1994.000000	48.13	---	68.20	20.07	500.0	100.0	H	136.0	6.5
2239.000000	---	36.52	54.00	17.48	500.0	100.0	H	136.0	7.4
2663.375000	49.60	---	68.20	18.60	500.0	200.0	H	0.0	8.6
2789.375000	---	37.83	54.00	16.17	500.0	200.0	V	272.0	8.9
3432.500000	51.58	---	68.20	16.62	500.0	100.0	H	148.0	10.9
3980.250000	---	41.57	54.00	12.43	500.0	200.0	H	323.0	12.1
4463.250000	53.58	---	68.20	14.62	500.0	100.0	H	112.0	13.2
7684.125000	---	44.81	54.00	9.19	500.0	100.0	V	182.0	18.8
7944.000000	57.55	---	68.20	10.65	500.0	200.0	V	174.0	19.7

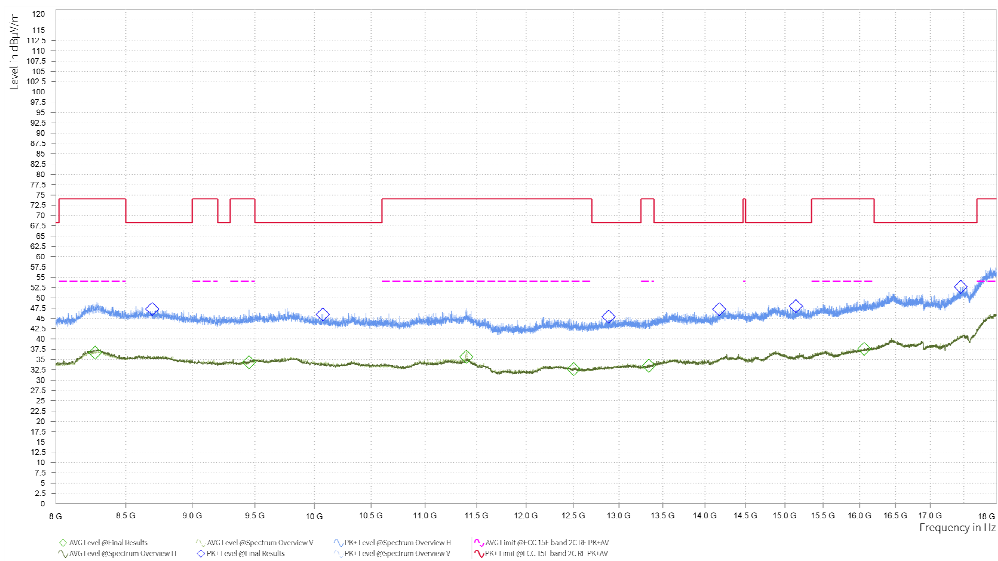
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH140



Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	MaxPeak Limit (dBμV/m)	MaxPeak Margin (dB)	Average (dBμV/m)	Average Limit (dBμV/m)	Average Margin (dB)	Meas. Time (s)	Pol	Azimuth (deg)	Height (m)	Corr. (dB/m)
1,084.875	---	---	---	29.64	54.00	24.36	1.000	H	184.3	2.00	-6.14
1,280.875	43.44	68.20	24.76	---	---	---	1.000	H	78.2	1.00	-4.10
1,497.875	---	---	---	31.98	54.00	22.02	1.000	H	163.6	2.00	-2.54
1,997.500	46.97	68.20	21.23	---	---	---	1.000	H	348.8	2.00	0.49
2,563.625	47.53	68.20	20.67	---	---	---	1.000	H	341.7	2.00	3.11
2,792.875	---	---	---	35.96	54.00	18.04	1.000	V	183.2	1.00	3.63
3,485.000	50.61	68.20	17.59	---	---	---	1.000	H	54.2	2.00	6.45
3,870.875	---	---	---	39.21	54.00	14.79	1.000	V	340.3	1.00	6.92
5,242.000	53.72	68.20	14.48	---	---	---	1.000	V	100.8	2.00	10.71
5,389.875	---	---	---	42.37	54.00	11.63	1.000	H	78.2	1.00	11.28
6,993.750	57.25	68.20	10.95	---	---	---	1.000	H	211.6	2.00	13.32
7,492.500	---	---	---	45.90	54.00	8.10	1.000	H	348.8	2.00	13.16

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average