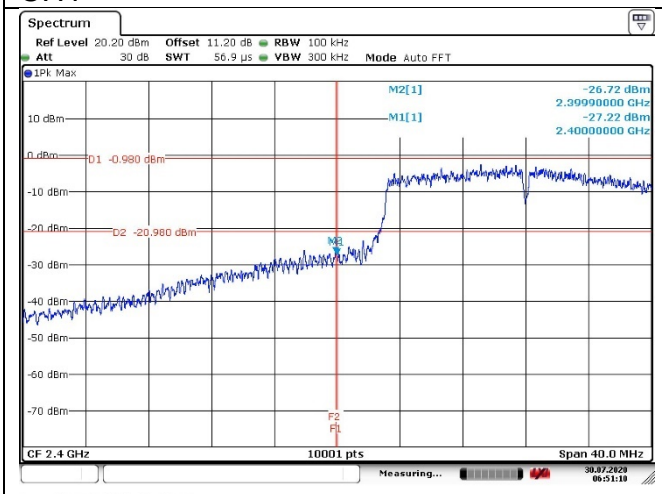
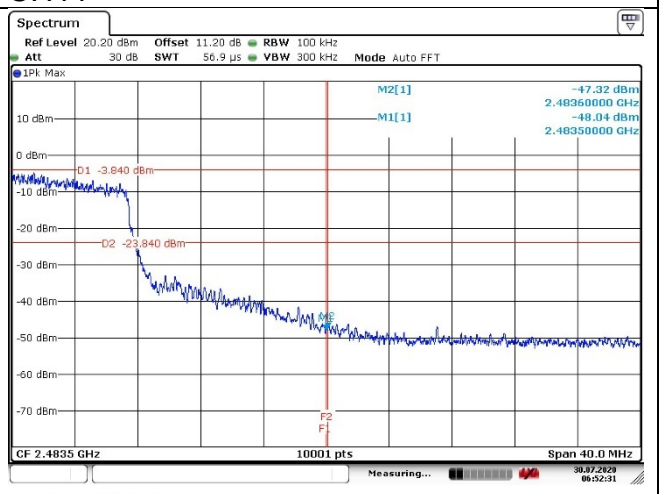
802.11n (HT20)

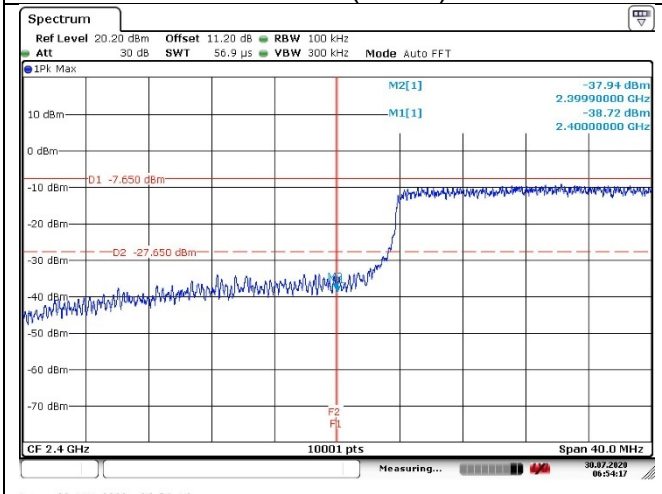
CH1



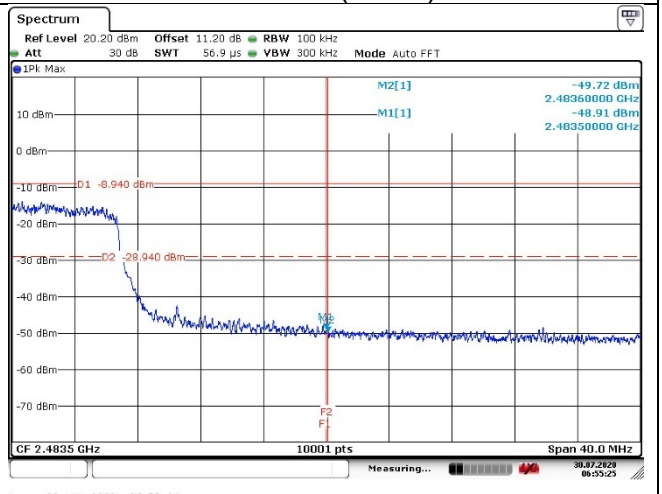
CH11



802.11n (HT40)



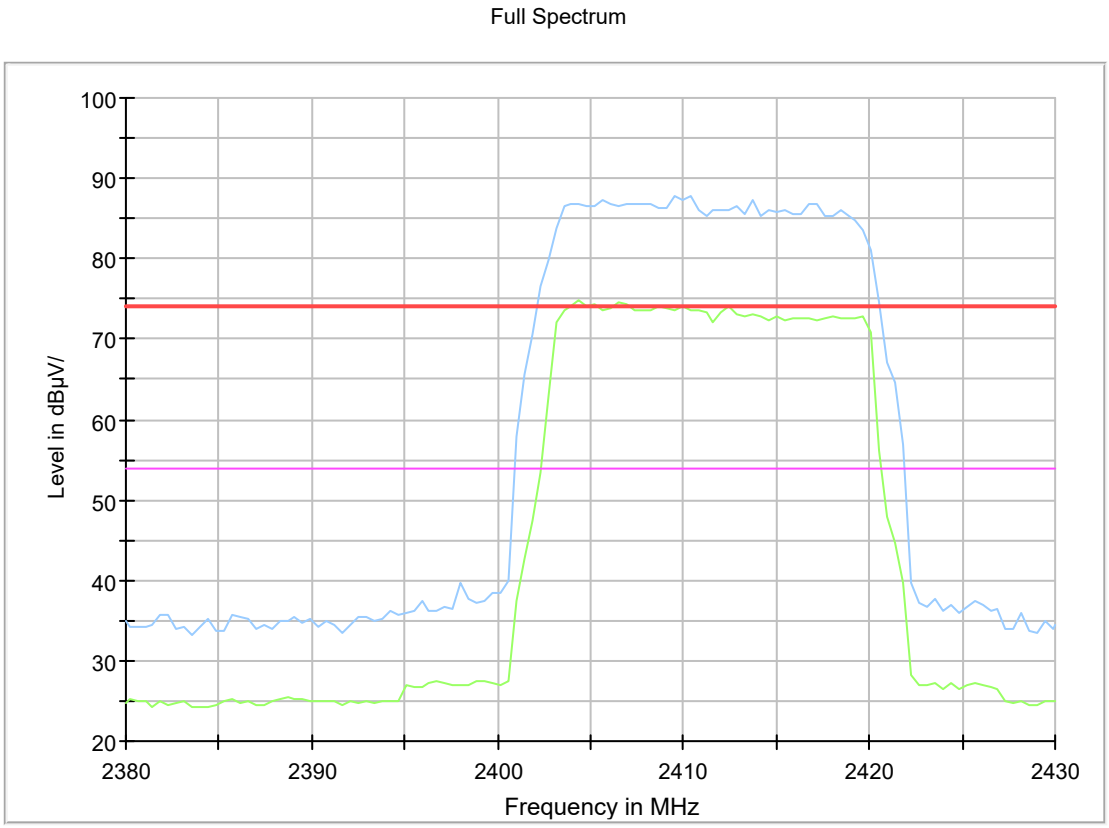
802.11n (HT40)



APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Emission Band Edge

The worst case attitude: The mobile lay down.
The measurement results are obtained as described below:
Measure Level = Reading Level + cable loss + antenna factor
Full Spectrum



Test Mode: 802.11b 2412MHz

Sample calculation: (86.22 dBuV/m) = (52.22 dBμV) + (8.90 dB) + (25.10 dB), the corresponding frequency is 2412MHz.
Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
Polarity:Vertical
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	86.22	52.22	N/A	N/A	8.90	25.10
2	2390	34.15	0.15	-39.85	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
Polarity:Horizontal
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	81.73	47.73	N/A	N/A	8.90	25.10
2	2390	28.85	-5.15	-45.15	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
Polarity:Vertical
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	73.19	39.19	N/A	N/A	8.90	25.10
2	2390	21.77	-12.23	-32.23	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11b
Polarity:Horizontal
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	71.32	37.32	N/A	N/A	8.90	25.10
2	2390	20.99	-13.01	-33.01	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
Polarity:Vertical
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	87.14	53.14	N/A	N/A	8.90	25.10
2	2483.5	35.37	1.37	-38.63	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
Polarity:Horizontal
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	82.49	48.49	N/A	N/A	8.90	25.10
2	2483.5	32.51	-1.49	-41.49	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
Polarity:Vertical
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	74.98	40.98	N/A	N/A	8.90	25.10
2	2483.5	22.16	-11.84	-31.84	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b
Polarity:Horizontal
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	69.82	35.82	N/A	N/A	8.90	25.10
2	2483.5	21.18	-12.82	-32.82	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
Polarity: Vertical
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	86.28	52.28	N/A	N/A	8.90	25.10
2	2390	33.14	-0.86	-40.86	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
Polarity:Horizontal
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	81.58	47.58	N/A	N/A	8.90	25.10
2	2390	30.17	-3.83	-43.83	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
Polarity: Vertical
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	72.45	38.45	N/A	N/A	8.90	25.10
2	2390	23.54	-10.46	-30.46	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11g
Polarity:Horizontal
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	71.70	37.70	N/A	N/A	8.90	25.10
2	2390	21.15	-12.85	-32.85	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
Polarity: Vertical
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	86.40	52.40	N/A	N/A	8.90	25.10
2	2483.5	35.56	1.56	-38.44	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
Polarity:Horizontal
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	82.92	48.92	N/A	N/A	8.90	25.10
2	2483.5	30.78	-3.22	-43.22	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
Polarity: Vertical
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	73.61	39.61	N/A	N/A	8.90	25.10
2	2483.5	23.18	-10.82	-30.82	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	72.73	38.73	N/A	N/A	8.90	25.10
2	2483.5	22.63	-11.37	-31.37	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
Polarity: Vertical
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	86.83	52.83	N/A	N/A	8.90	25.10
2	2390	33.50	-0.50	-40.50	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	83.59	49.59	N/A	N/A	8.90	25.10
2	2390	32.08	-1.92	-41.92	74.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
Polarity: Vertical
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	76.31	42.31	N/A	N/A	8.90	25.10
2	2390	23.43	-10.57	-30.57	54.00	8.90	25.10

Carrier frequency (MHz): 2412
Channel No.:1
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2412	73.29	39.29	N/A	N/A	8.90	25.10
2	2390	22.98	-11.02	-31.02	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)
Polarity: Vertical
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	86.74	52.74	N/A	N/A	8.90	25.10
2	2483.5	36.13	2.13	-37.87	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Peak

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	82.83	48.83	N/A	N/A	8.90	25.10
2	2483.5	28.97	-5.03	-45.03	74.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)
Polarity: Vertical
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	72.60	38.60	N/A	N/A	8.90	25.10
2	2483.5	23.81	-10.19	-30.19	54.00	8.90	25.10

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Average

No	Frequency（MHz）	Measure Level（dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2462	72.24	38.24	N/A	N/A	8.90	25.10
2	2483.5	22.70	-11.30	-31.30	54.00	8.90	25.10

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2422	88.05	54.05	N/A	N/A	8.90	25.10
2	2390	33.86	-0.14	-40.14	74.00	8.90	25.10

Carrier frequency (MHz): 2422
Channel No.:2
Test Mode: 802.11n(HT40)
Polarity:Horizontal
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2422	82.06	48.06	N/A	N/A	8.90	25.10
2	2390	31.63	-2.37	-42.37	74.00	8.90	25.10

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2422	75.40	41.40	N/A	N/A	8.90	25.10
2	2390	22.37	-11.63	-31.63	54.00	8.90	25.10

Carrier frequency (MHz): 2422
Channel No.:3
Test Mode: 802.11n(HT40)
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2422	72.16	38.16	N/A	N/A	8.90	25.10
2	2390	21.14	-12.86	-32.86	54.00	8.90	25.10

Carrier frequency (MHz): 2452
Channel No.:9
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2452	86.86	52.86	N/A	N/A	8.90	25.10
2	2483.5	34.56	0.56	-39.44	74.00	8.90	25.10

Carrier frequency (MHz): 2452
Channel No.:9
Test Mode: 802.11n(HT40)
Polarity:Horizontal
Detector: Peak

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2452	83.62	49.62	N/A	N/A	8.90	25.10
2	2483.5	31.85	-2.15	-42.15	74.00	8.90	25.10

Carrier frequency (MHz): 2452
Channel No.:9
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2452	76.36	42.36	N/A	N/A	8.90	25.10
2	2483.5	22.54	-11.46	-31.46	54.00	8.90	25.10

Carrier frequency (MHz): 2452
Channel No.:9
Test Mode: 802.11n(HT40)
Polarity:Horizontal
Detector: Average

No	Frequency （MHz）	Measure Level （dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuv/m)	cable loss (dB)	antenna factor (dB)
1	2452	73.11	39.11	N/A	N/A	8.90	25.10
2	2483.5	23.11	-10.89	-30.89	54.00	8.90	25.10

Sample Calculations

Determining Spurious Emissions Levels

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.
The measurement results are obtained as described below:
Result= P_{mea} + A_{Rpl}
Sample calculation: (25.55dBμV/m) = (-18.1dB) + (43.65dBuV/m), the corresponding frequency is 40.445000MHz.
The worst case attitude: The mobile lay down.

For 802.11b Channel No.:1

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
40.445000	25.55	-18.1	43.65	Vertical	40.00
53.865000	19.27	-17.6	36.87	Vertical	40.00
84.371500	21.23	-22.5	43.73	Vertical	40.00
87.007500	15.05	-21.6	36.65	Vertical	40.00
160.154000	14.25	-21.2	35.45	Vertical	43.50
901.924000	17.23	-1.5	18.73	Vertical	46.00

For 802.11b Channel No.:2

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
34.467500	24.46	-19.9	44.36	Vertical	40.00
54.920000	18.91	-17.8	36.71	Vertical	40.00
84.154500	19.98	-22.5	42.48	Vertical	40.00
86.913000	17.59	-21.6	39.19	Vertical	40.00
159.820500	17.37	-21.2	38.57	Vertical	43.50
945.548500	17.49	-0.9	18.39	Horizon	46.00

For 802.11b Channel No.:6

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
41.038000	35.01	-18.0	53.01	Vertical	40.00
42.407000	29.89	-17.9	47.79	Vertical	40.00
66.772000	23.38	-20.6	43.98	Vertical	40.00
78.340500	22.83	-23.6	46.43	Vertical	40.00
144.081000	15.57	-21.8	37.37	Horizon	43.50
926.690500	17.53	-1.1	18.63	Vertical	46.00

For 802.11b Channel No.:10

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
40.964000	34.15	-18.0	52.15	Vertical	40.00
42.969500	28.77	-17.8	46.57	Vertical	40.00
68.155500	24.15	-21.1	45.25	Vertical	40.00
86.759000	14.94	-21.6	36.54	Vertical	40.00
153.908500	19.91	-21.4	41.31	Horizon	43.50
920.277500	17.37	-1.2	18.57	Vertical	46.00

For 802.11b Channel No.:11

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
40.955500	33.85	-18.0	51.85	Vertical	40.00
42.601000	28.78	-17.8	46.58	Vertical	40.00
68.252500	24.76	-21.1	45.86	Vertical	40.00
87.798000	16.90	-21.3	38.20	Vertical	40.00
153.250000	20.02	-21.5	41.52	Horizon	43.50
950.878500	17.65	-0.9	18.55	Vertical	46.00

For 802.11g Channel No.:1

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
40.981000	34.17	-18.0	52.17	Vertical	40.00
51.813500	27.86	-17.4	45.26	Vertical	40.00
67.936000	24.54	-21.0	45.54	Vertical	40.00
88.257500	17.84	-21.1	38.94	Vertical	43.50
152.277500	19.11	-21.5	40.61	Horizon	43.50
925.387000	17.42	-1.1	18.52	Vertical	46.00

For 802.11g Channel No.:2

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
40.989500	34.19	-18.0	52.19	Vertical	40.00
42.358500	29.95	-17.9	47.85	Vertical	40.00
67.596500	24.30	-20.9	45.20	Vertical	40.00
88.209000	17.92	-21.2	39.12	Vertical	43.50
153.569000	18.81	-21.5	40.31	Vertical	43.50
941.172500	17.54	-1.0	18.54	Horizon	46.00

For 802.11g Channel No.:6

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
40.630500	33.49	-18.1	51.59	Vertical	40.00
42.969500	28.80	-17.8	46.60	Vertical	40.00
62.540500	21.84	-19.3	41.14	Vertical	40.00
87.821000	17.44	-21.3	38.74	Vertical	40.00
144.260500	14.26	-21.8	36.06	Horizon	43.50
916.545500	17.39	-1.2	18.59	Horizon	46.00

For 802.11g Channel No.:10

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
40.958000	34.16	-18.0	52.16	Vertical	40.00
51.959000	27.83	-17.4	45.23	Vertical	40.00
67.995500	24.65	-21.0	45.65	Vertical	40.00
88.209000	17.81	-21.2	39.01	Vertical	43.50
153.575000	19.40	-21.5	40.90	Horizon	43.50
908.951500	17.35	-1.3	18.65	Vertical	46.00

For 802.11g Channel No.:11

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
41.012500	33.89	-18.0	51.89	Vertical	40.00
42.310000	30.09	-17.9	47.99	Vertical	40.00
68.112000	21.15	-21.0	42.15	Vertical	40.00
87.992000	15.83	-21.2	37.03	Vertical	40.00
153.714500	18.24	-21.5	39.74	Horizon	43.50
930.870000	17.42	-1.1	18.52	Vertical	46.00

For 802.11n(HT20) Channel No.:1

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
40.958000	32.36	-18.0	50.36	Vertical	40.00
42.487000	26.91	-17.8	44.71	Vertical	40.00
69.682000	22.05	-21.5	43.55	Vertical	40.00
86.956500	14.99	-21.6	36.59	Vertical	40.00
146.029500	15.90	-21.7	37.60	Horizon	43.50
895.916000	17.21	-1.6	18.81	Horizon	46.00

For 802.11 n(HT20) Channel No.:2

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
41.371500	30.71	-18.0	48.71	Vertical	40.00
51.137000	26.32	-17.3	43.62	Vertical	40.00
83.792000	19.21	-22.7	41.91	Vertical	40.00
87.627000	16.23	-21.4	37.63	Vertical	40.00
151.341500	15.89	-21.5	37.39	Horizon	43.50
916.731000	17.34	-1.2	18.54	Vertical	46.00

For 802.11 n(HT20) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
41.061000	31.18	-18.0	49.18	Vertical	40.00
45.249000	24.28	-17.5	41.78	Vertical	40.00
70.577000	18.05	-21.8	39.85	Vertical	40.00
87.566500	14.44	-21.4	35.84	Vertical	40.00
152.990500	14.61	-21.5	36.11	Horizon	43.50
931.932000	17.47	-1.1	18.57	Vertical	46.00

For 802.11 n(HT20) Channel No.:10

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
40.972500	28.56	-18.0	46.56	Vertical	40.00
42.929500	24.13	-17.8	41.93	Vertical	40.00
67.847500	22.33	-21.0	43.33	Vertical	40.00
87.347000	17.81	-21.5	39.31	Vertical	40.00
152.651000	15.54	-21.5	37.04	Horizon	43.50
937.058500	17.46	-1.0	18.46	Vertical	46.00

For 802.11 n(HT20) Channel No.:11

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
41.118000	28.24	-18.0	46.24	Vertical	40.00
50.641000	22.05	-17.2	39.25	Vertical	40.00
60.683000	19.97	-18.6	38.57	Vertical	40.00
87.079000	16.62	-21.5	38.12	Vertical	40.00
155.743000	11.56	-21.4	32.96	Horizon	43.50
928.870500	17.43	-1.1	18.53	Vertical	46.00

For 802.11 n(HT40) Channel No.:3

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
41.044000	26.51	-18.0	44.51	Vertical	40.00
42.681000	23.55	-17.8	41.35	Vertical	40.00
68.112000	20.03	-21.0	41.03	Vertical	40.00
87.256000	13.02	-21.5	34.52	Vertical	40.00
153.518000	12.21	-21.5	33.71	Horizon	43.50
935.489500	17.50	-1.0	18.50	Horizon	46.00

For 802.11 n(HT40) Channel No.:4

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
40.918000	24.67	-18.0	42.67	Vertical	40.00
51.058000	19.66	-17.3	36.96	Vertical	40.00
69.775500	20.22	-21.6	41.82	Vertical	40.00
87.695000	12.50	-21.3	33.80	Vertical	40.00
145.835500	12.69	-21.7	34.39	Vertical	43.50
936.373500	17.44	-1.0	18.44	Horizon	46.00

For 802.11 n(HT40) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
41.055000	34.88	-18.0	52.88	Vertical	40.00
42.310000	30.60	-17.9	48.50	Vertical	40.00
67.759000	28.01	-20.9	48.91	Vertical	40.00
87.212500	13.94	-21.5	35.44	Vertical	40.00
144.614500	18.63	-21.7	40.33	Horizon	43.50
952.875500	17.64	-0.8	18.44	Horizon	46.00

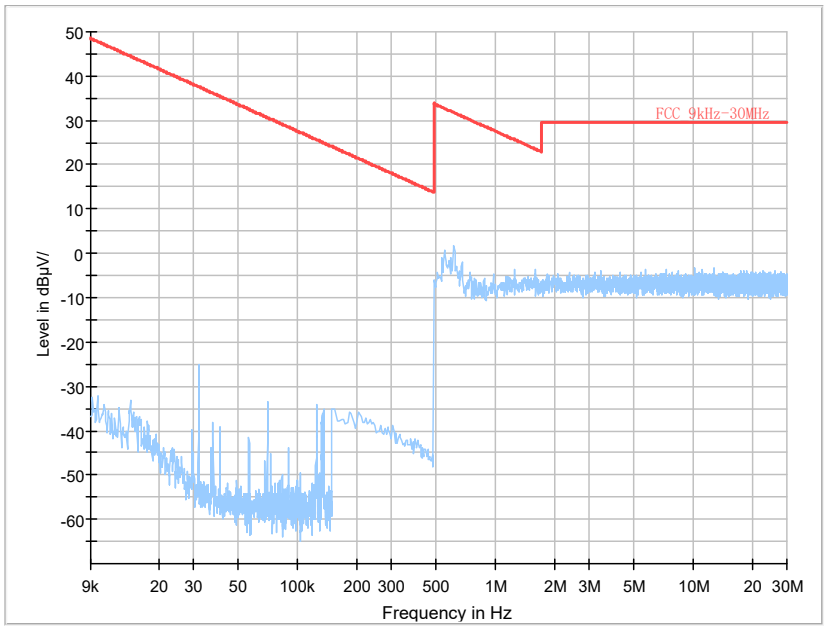
For 802.11 n(HT40) Channel No.:8

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
41.061000	34.45	-18.0	52.45	Vertical	40.00
42.601000	28.72	-17.8	46.52	Vertical	40.00
66.072500	24.72	-20.4	45.12	Vertical	40.00
87.657500	16.91	-21.3	38.21	Vertical	40.00
151.065000	14.47	-21.5	35.97	Horizon	43.50
895.764500	17.20	-1.6	18.80	Vertical	46.00

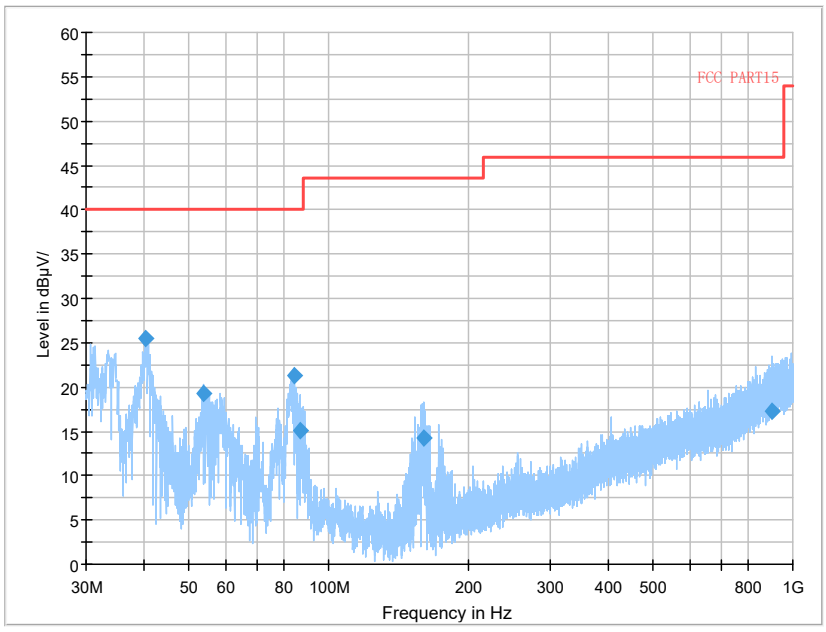
For 802.11 n(HT40) Channel No.:9

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
41.029500	33.94	-18.0	51.94	Vertical	40.00
42.969500	28.80	-17.8	46.60	Vertical	40.00
65.562000	22.72	-20.2	42.92	Vertical	40.00
86.796500	11.96	-21.6	33.56	Vertical	40.00
151.093000	15.41	-21.5	36.91	Horizon	43.50
892.150000	17.17	-1.7	18.87	Vertical	46.00

Carrier frequency (MHz): 2412
Channel No.:1

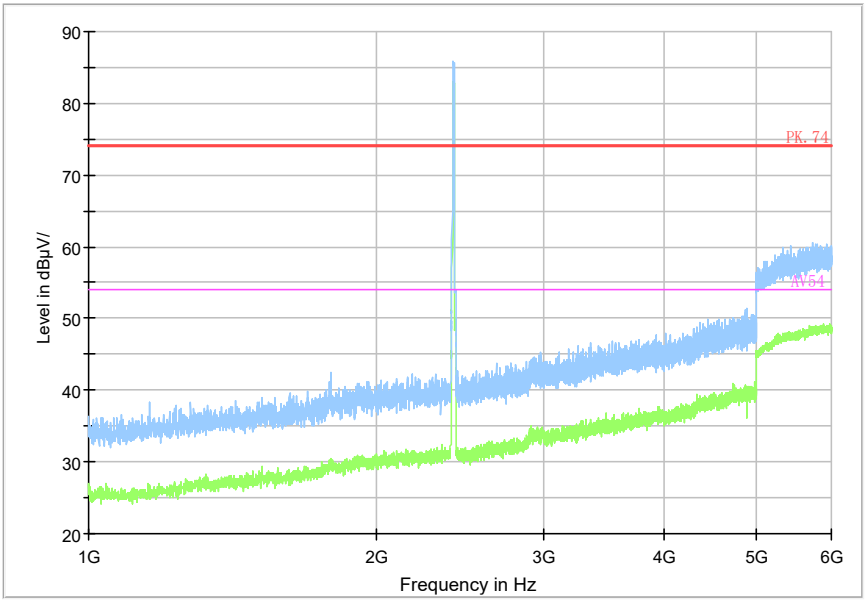


Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11b

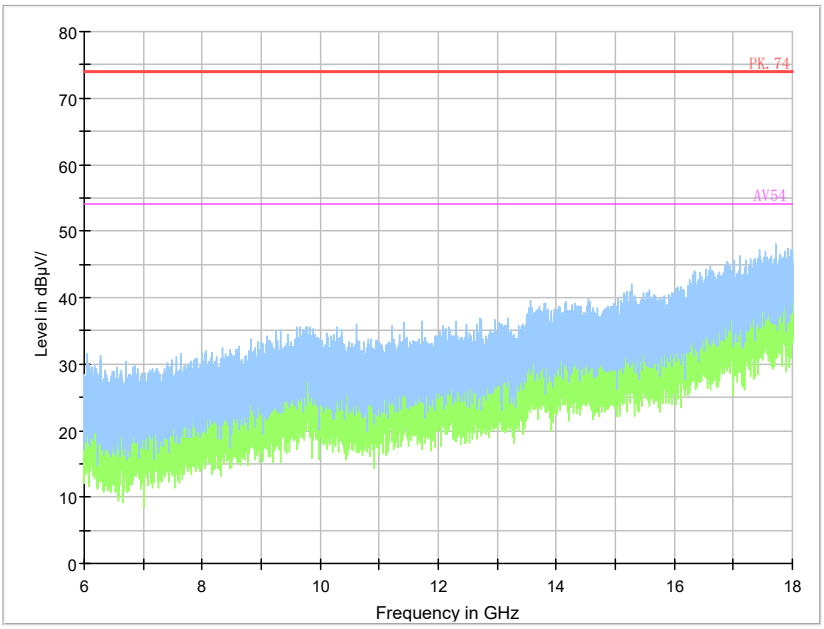


Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11b

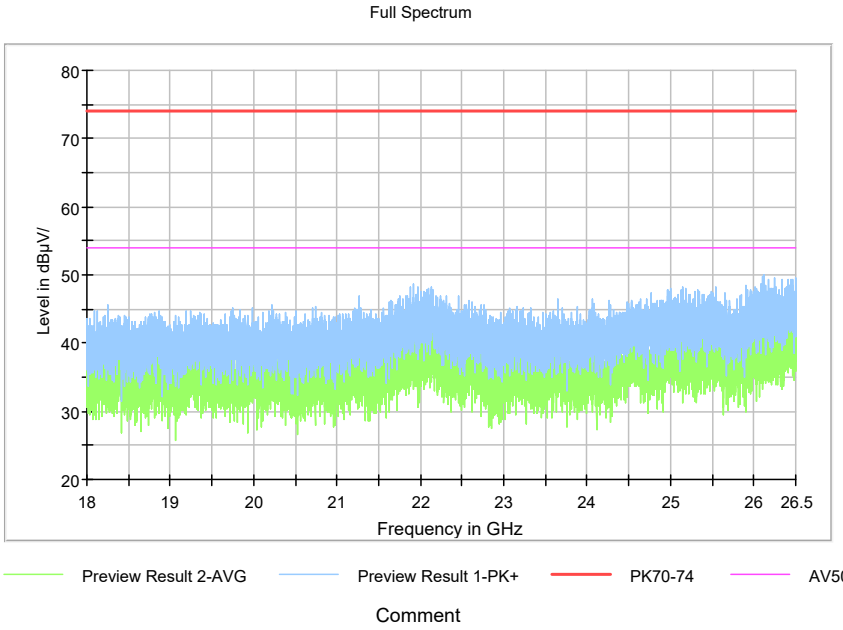
Full Spectrum



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

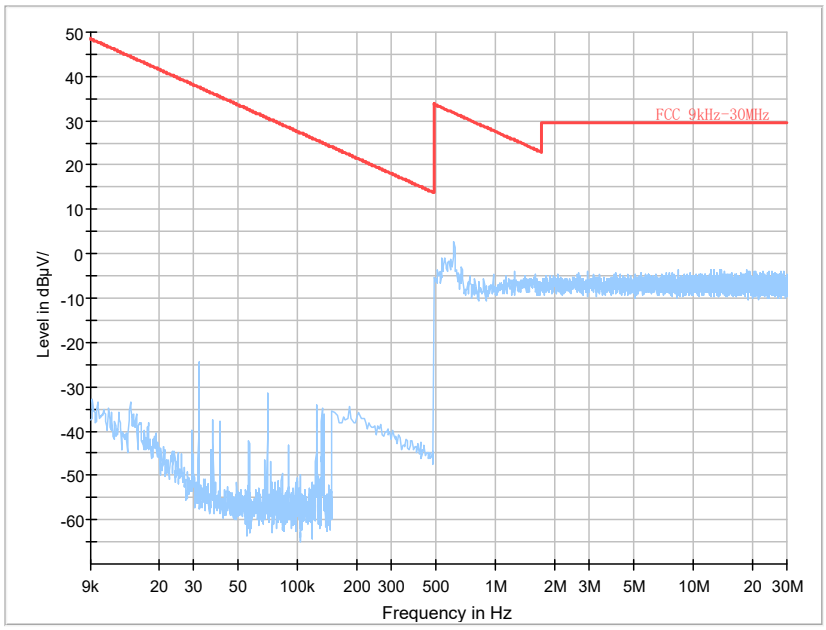


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

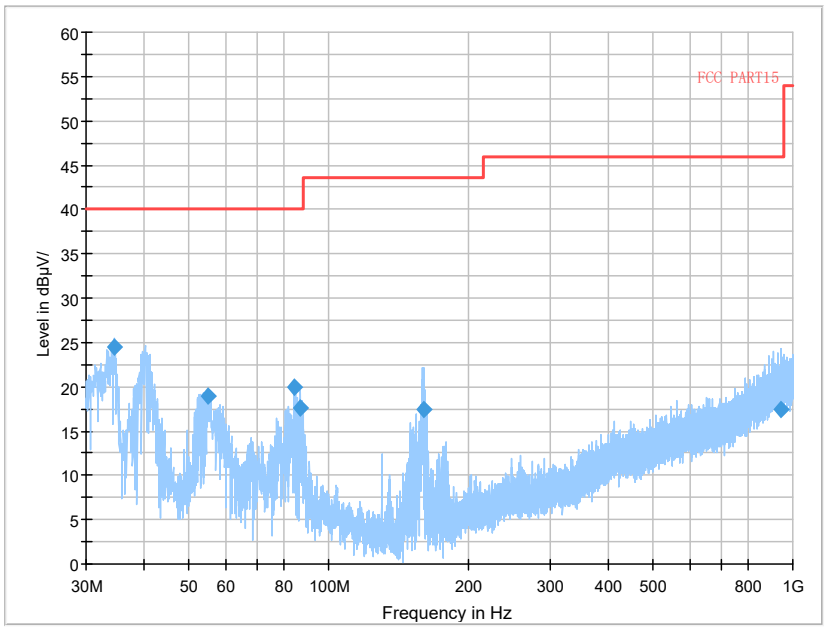


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

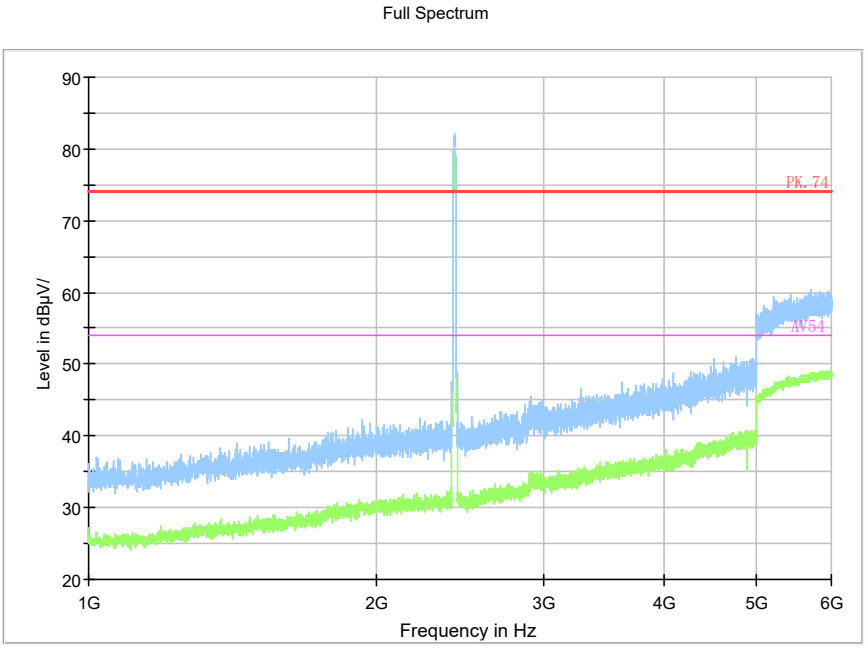
Carrier frequency (MHz): 2417
Channel No.:2



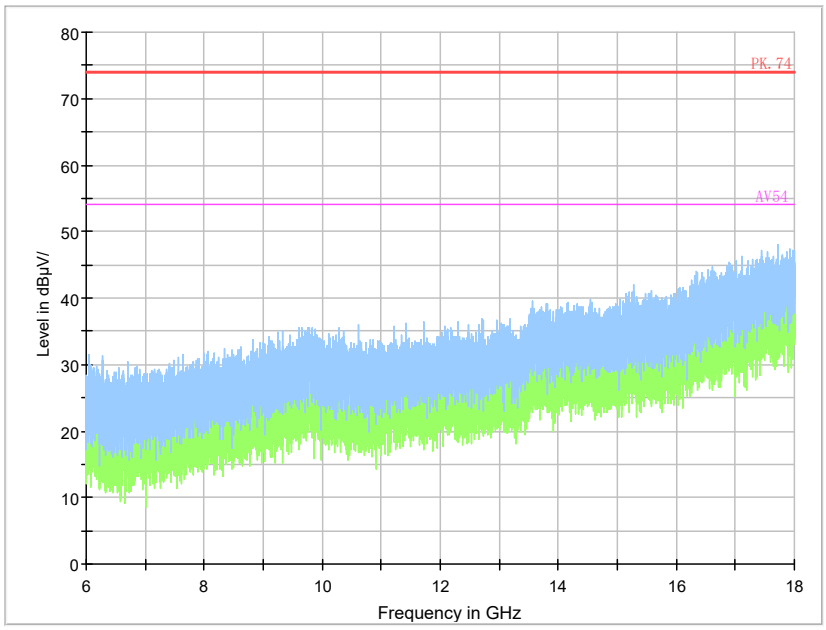
Frequency Range: 9kHz-30MHz
Detector: QP mode
Modulation type: 802.11b



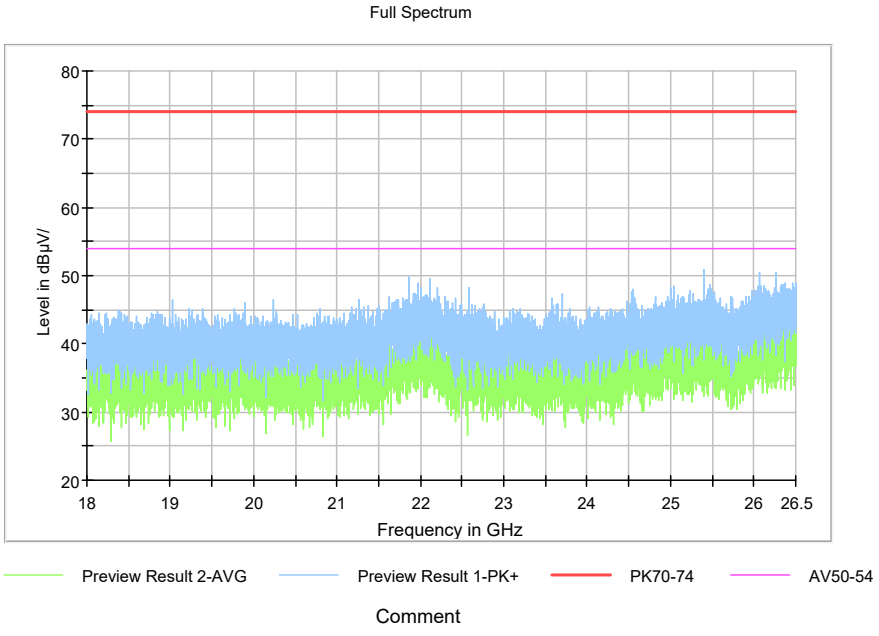
Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11b



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

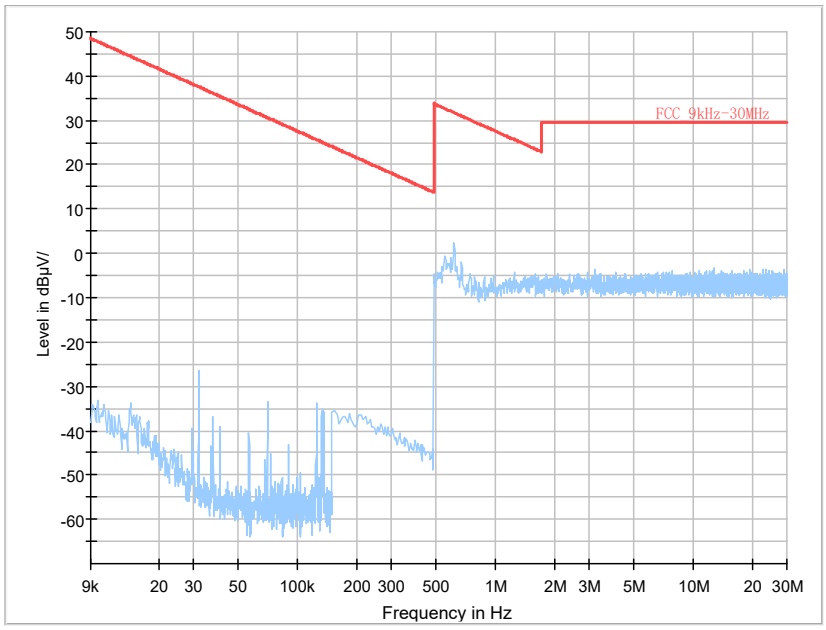


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

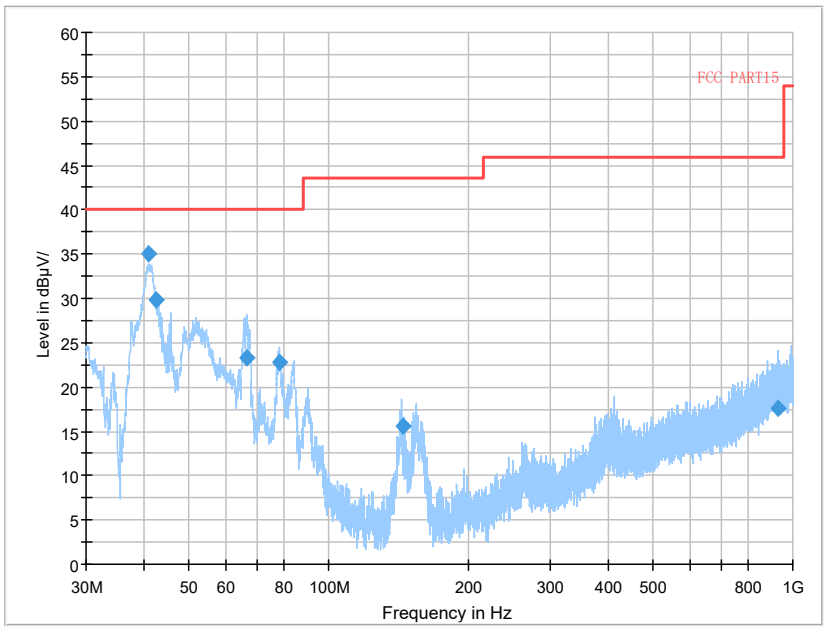


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

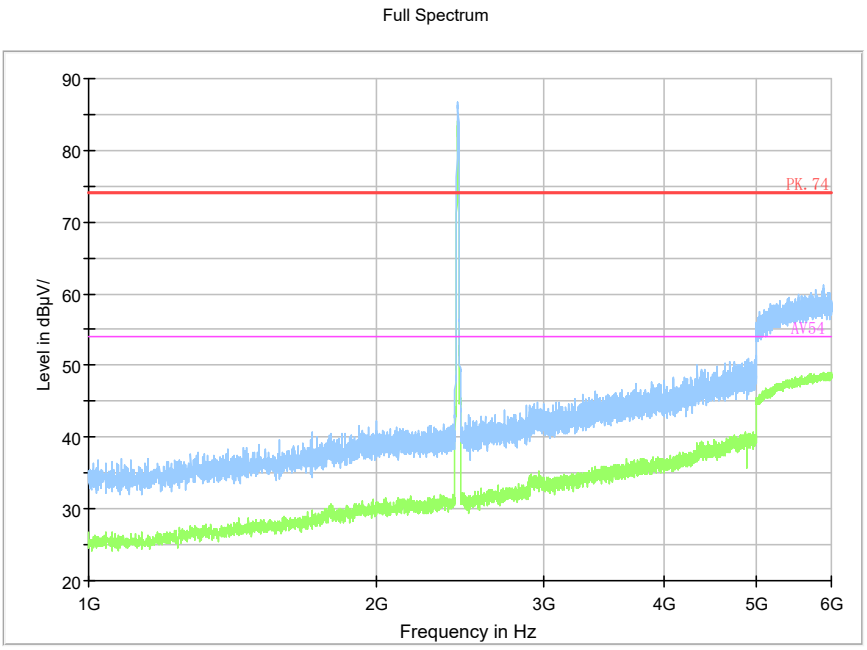
Carrier frequency (MHz): 2437
Channel No.:6



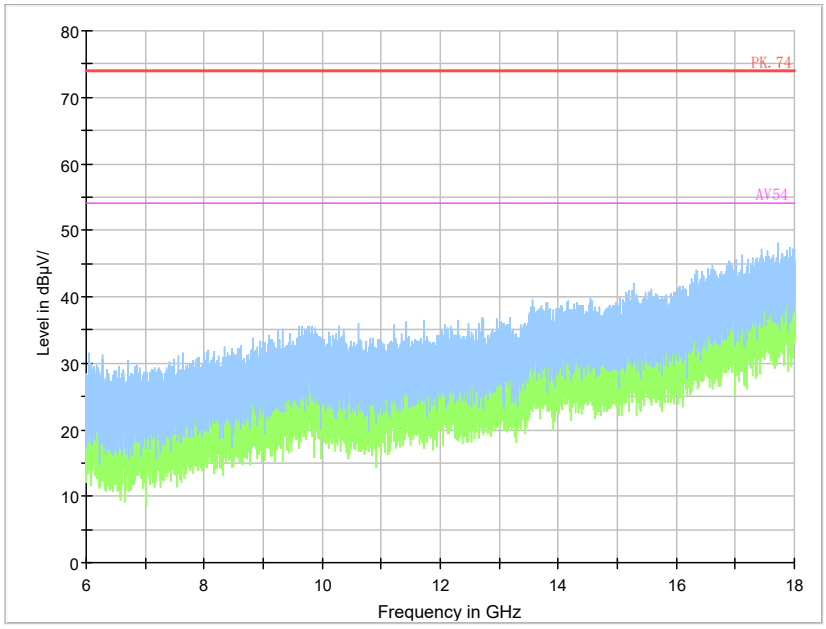
Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11b



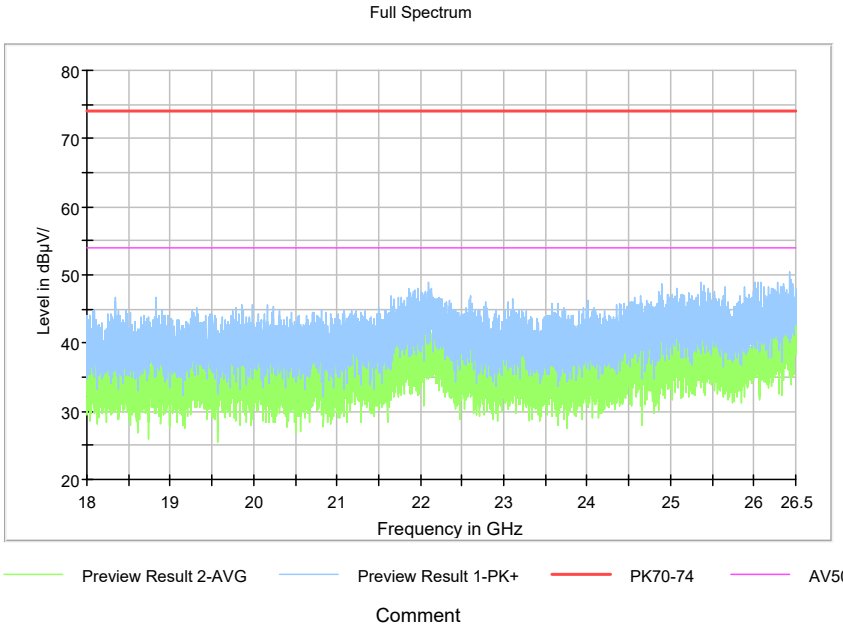
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11b



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

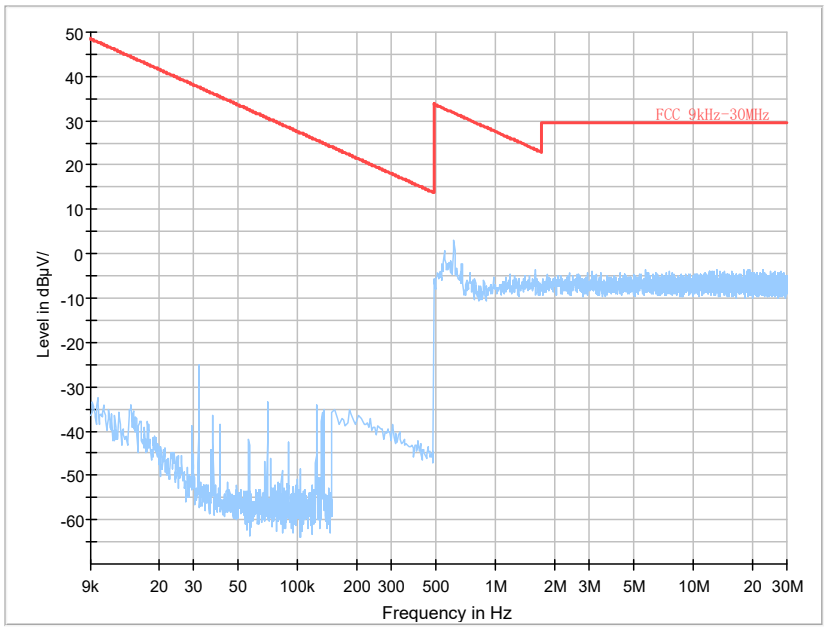


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

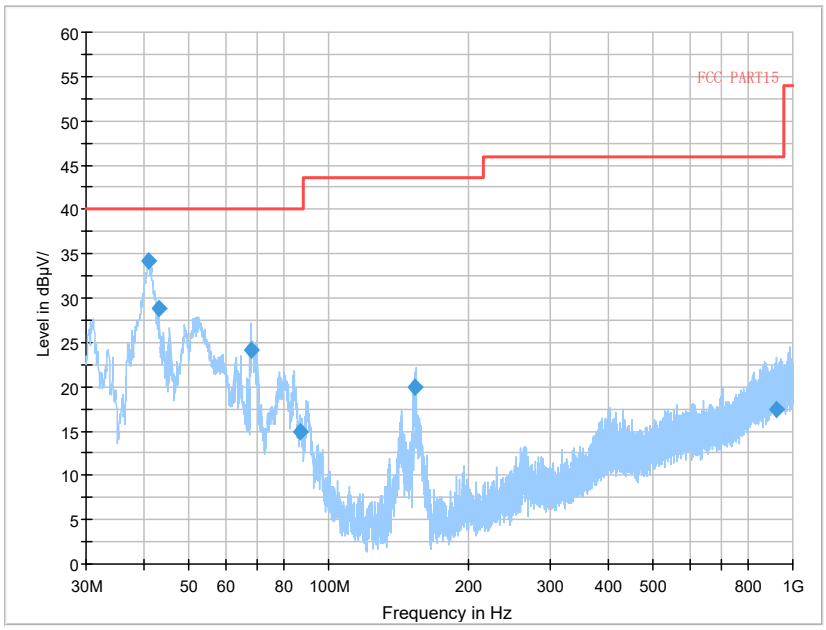


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

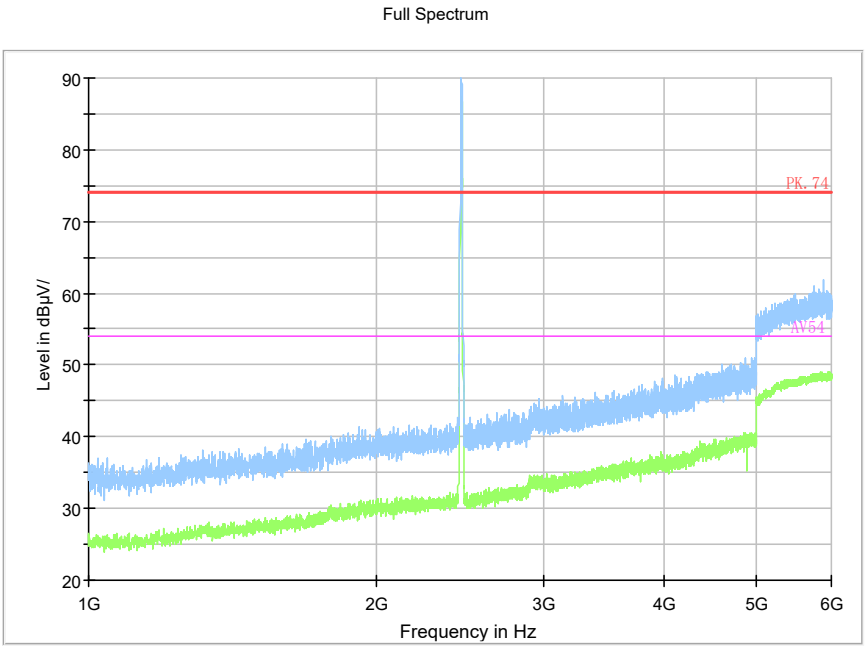
Carrier frequency (MHz): 2457
Channel No.:10



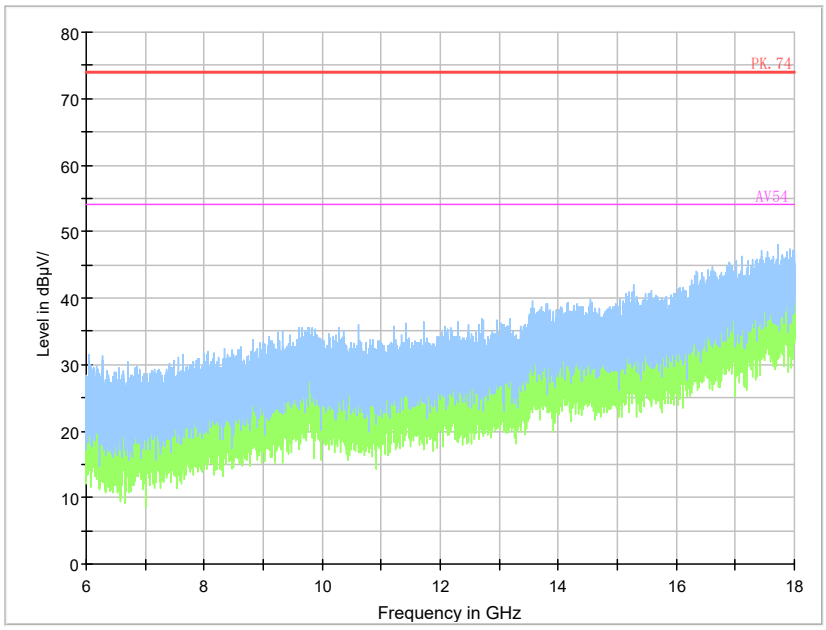
Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11b



Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11b



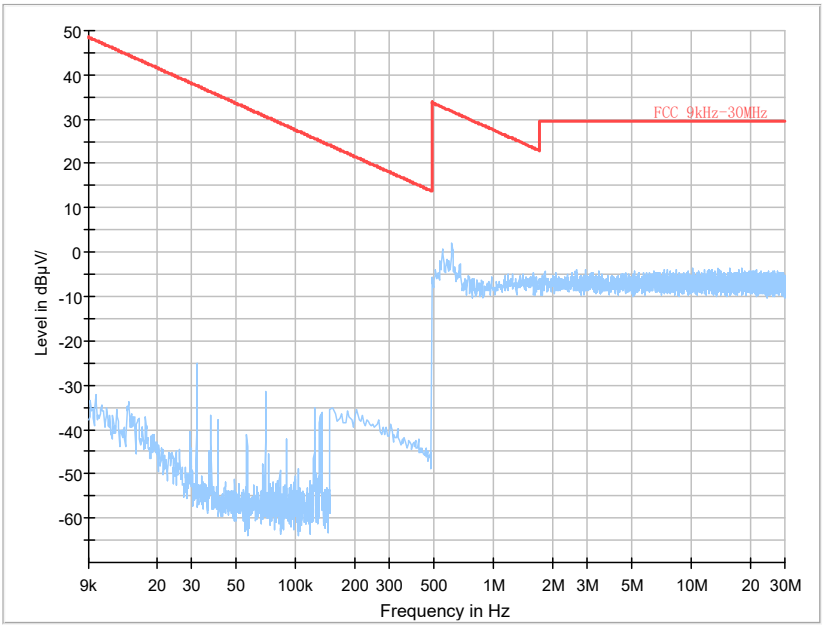
Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



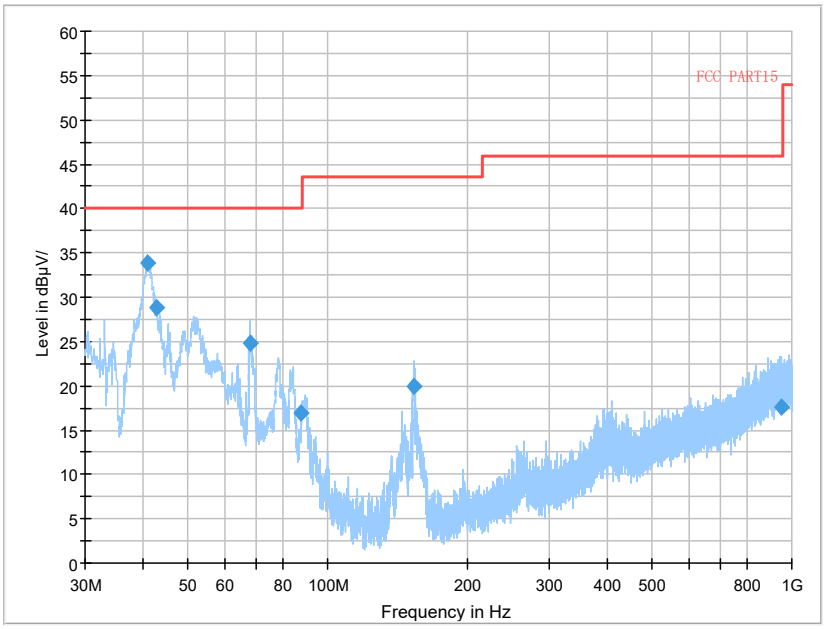
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

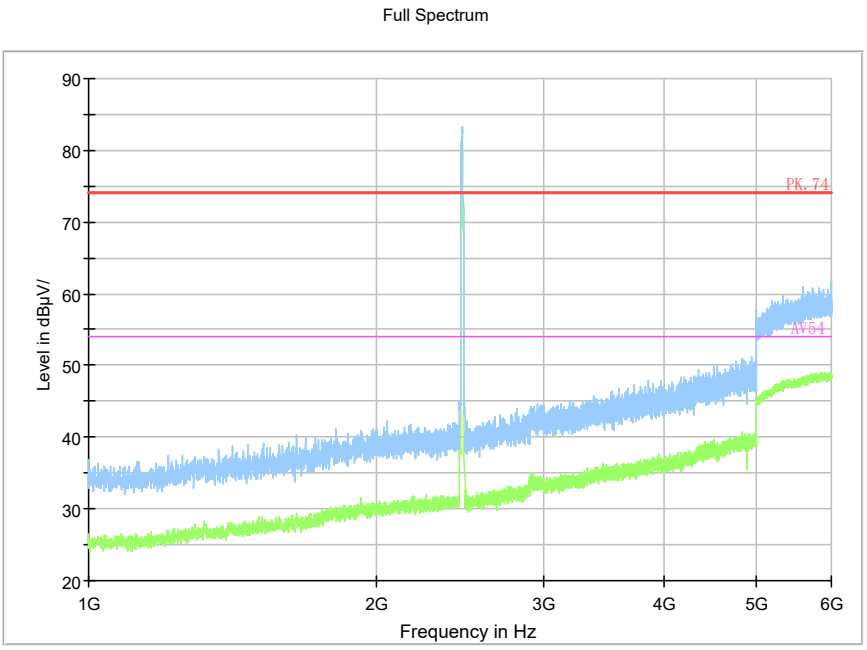
Carrier frequency (MHz): 2462
Channel No.:11



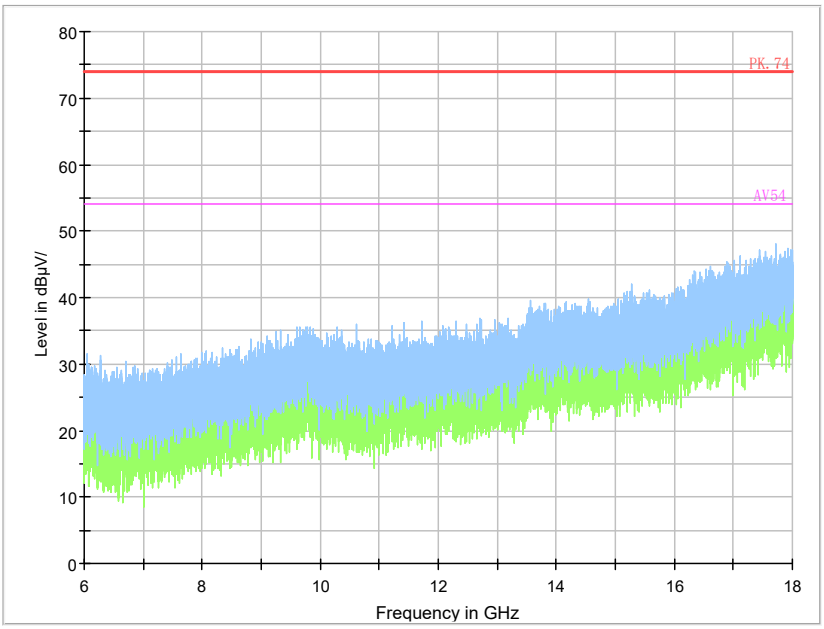
Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11b



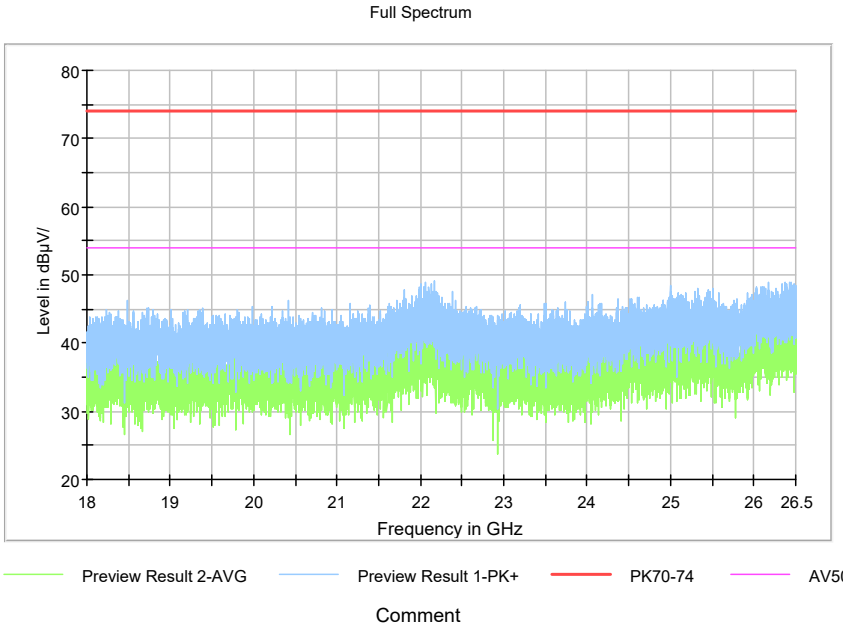
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11b



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

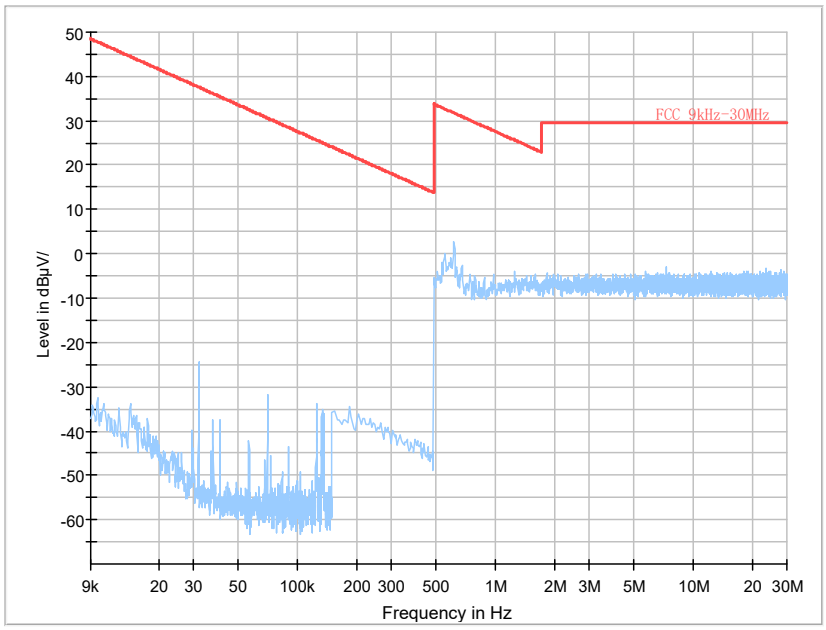


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

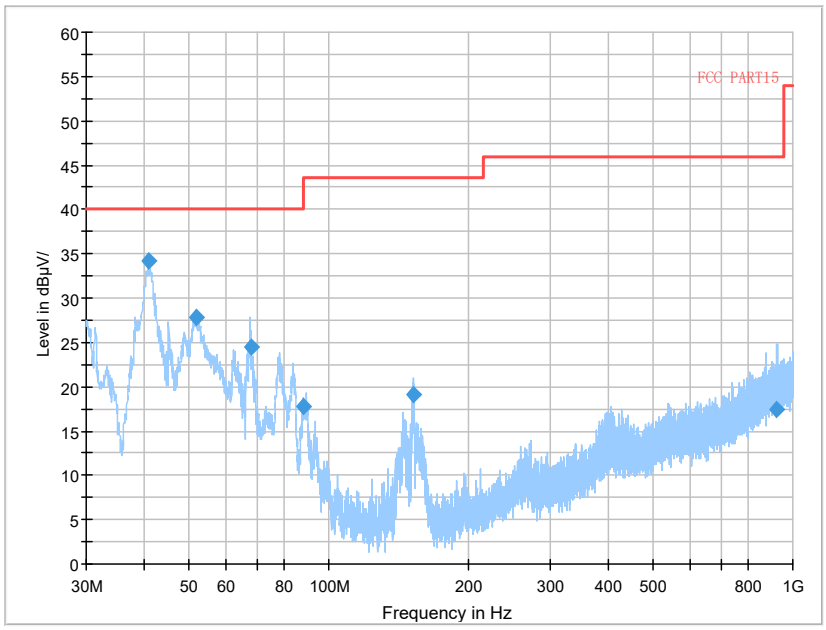


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Carrier frequency (MHz): 2412
Channel No.:1

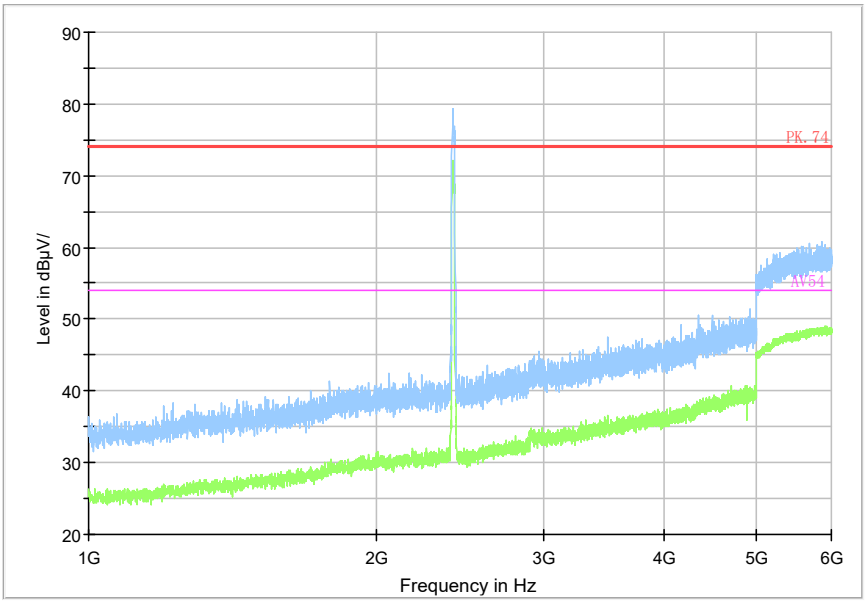


Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11g

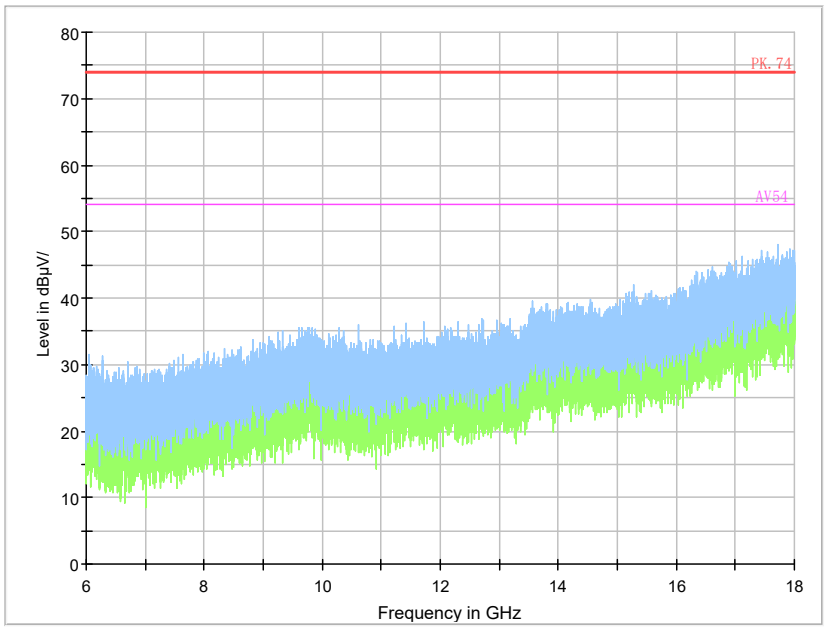


Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11g

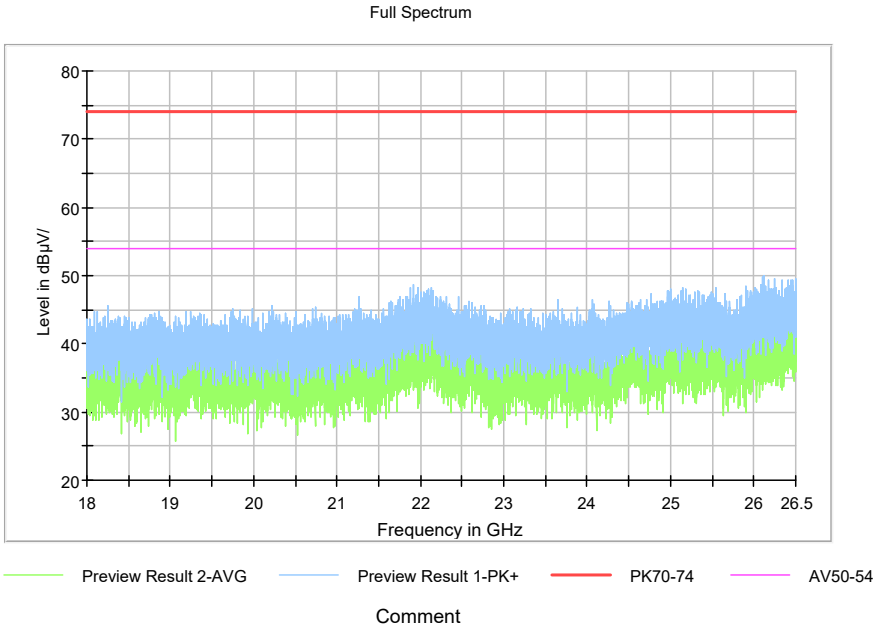
Full Spectrum



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

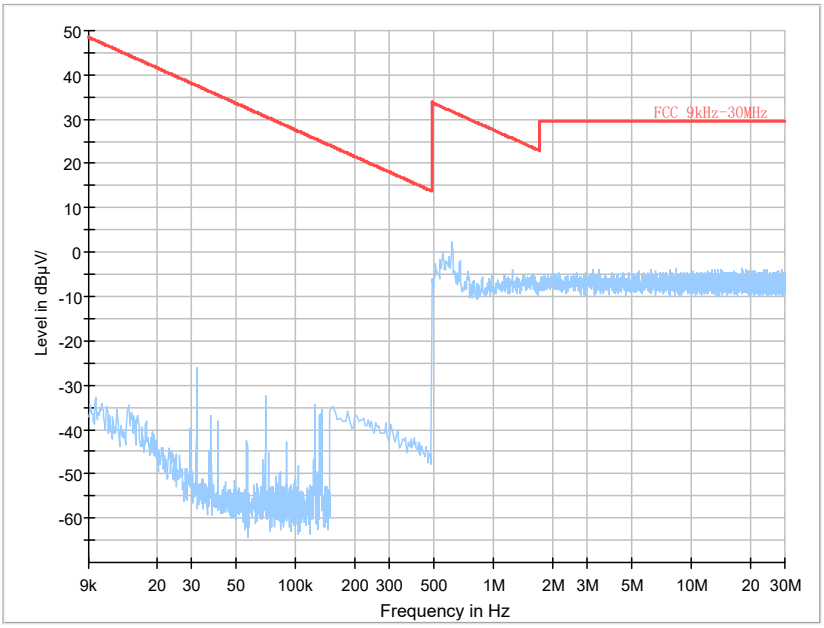


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

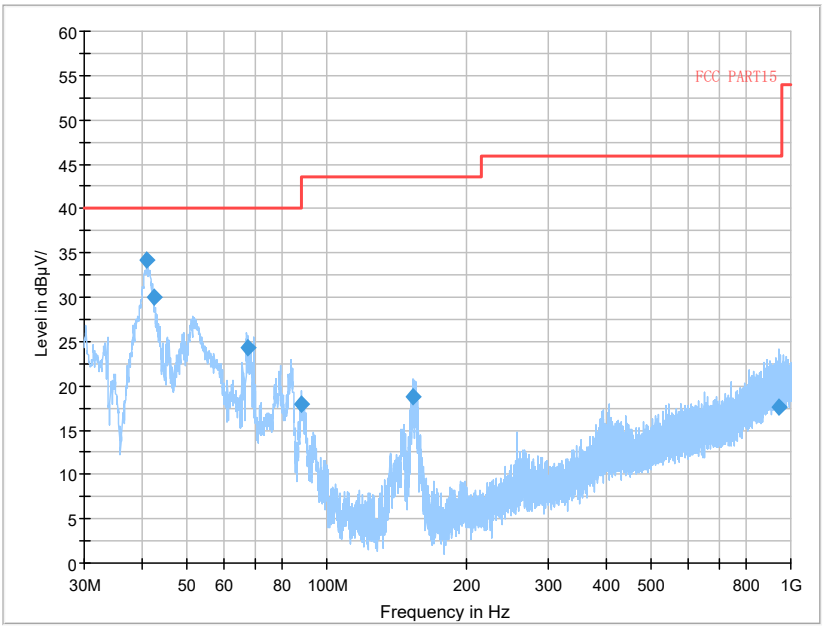


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

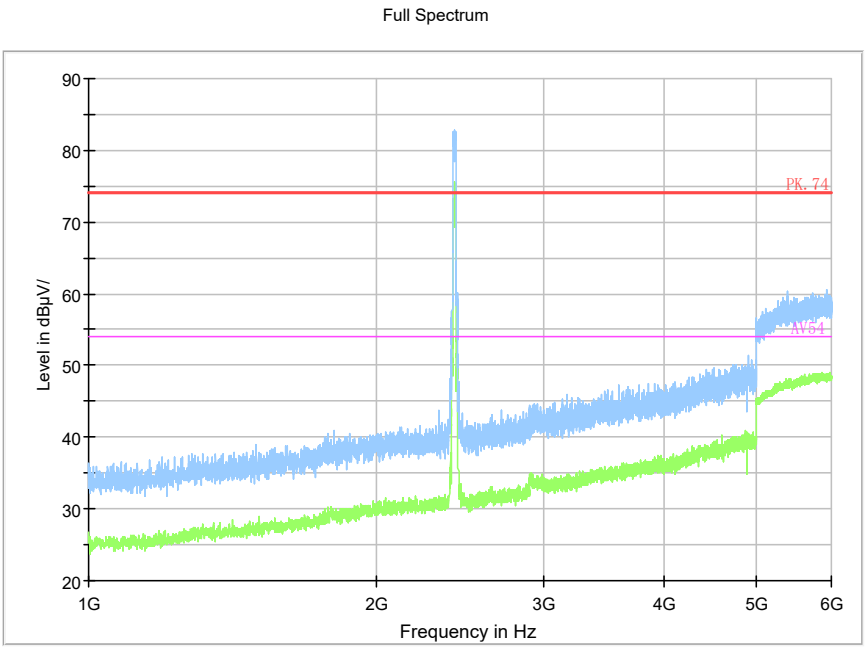
Carrier frequency (MHz): 2417
Channel No.:2



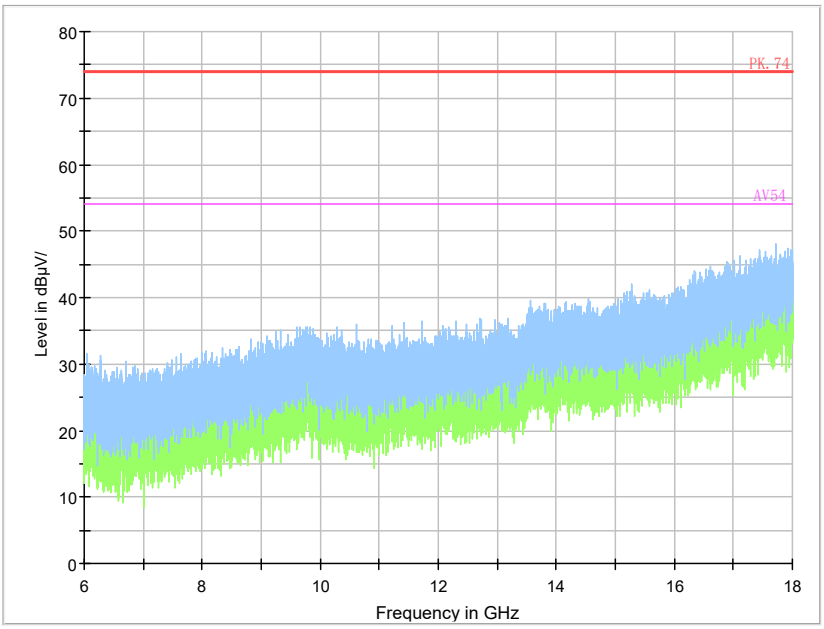
Frequency Range: 9kHz-30MHz
Detector: QP mode
Modulation type: 802.11g



Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g



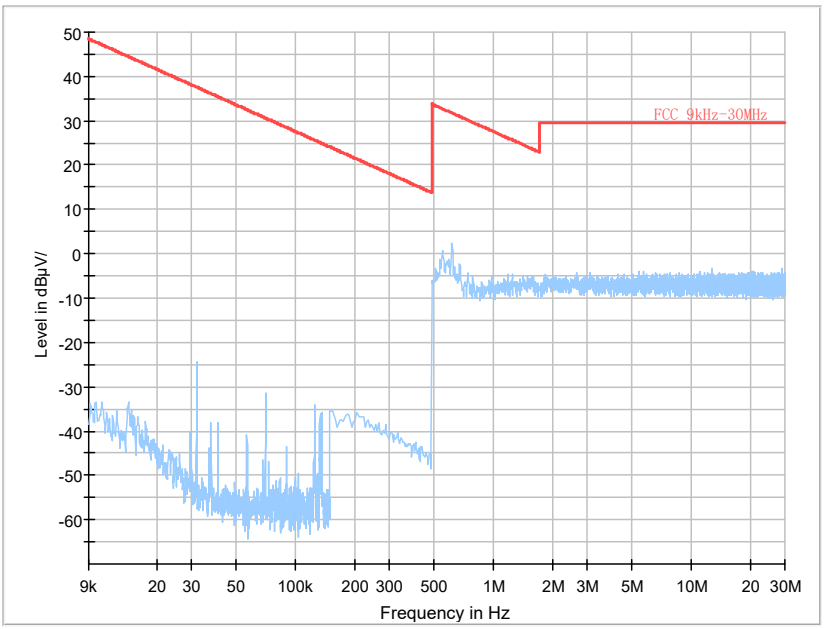
Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



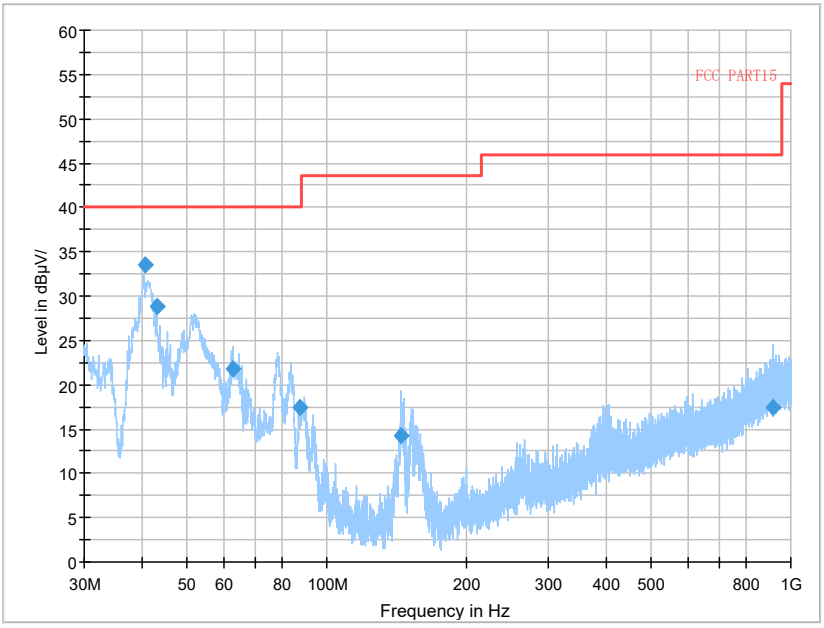
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Carrier frequency (MHz): 2437
Channel No.:6

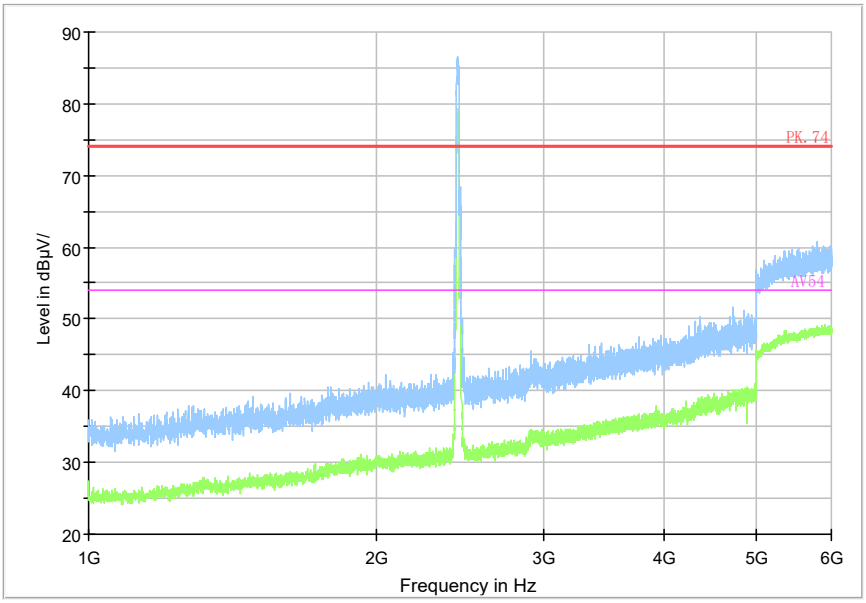


Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11g

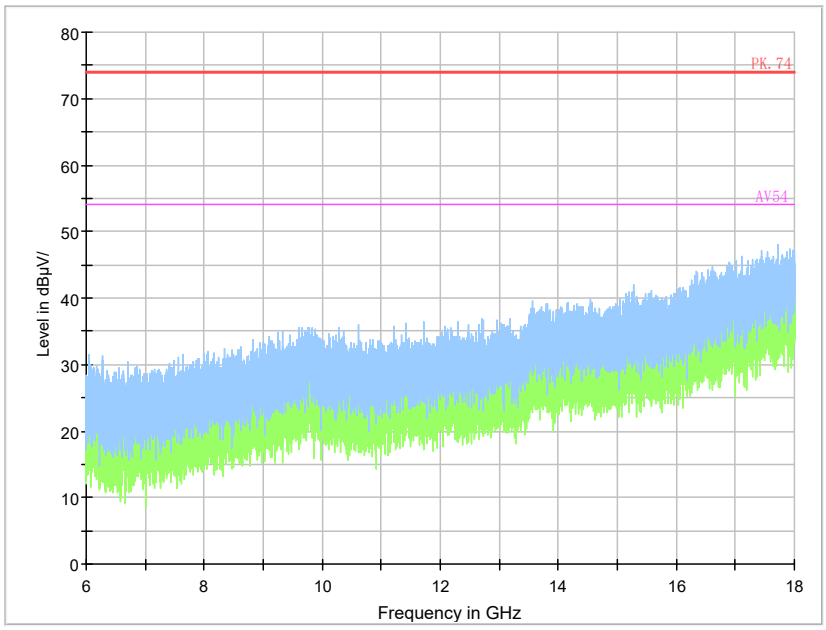


Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11g

Full Spectrum



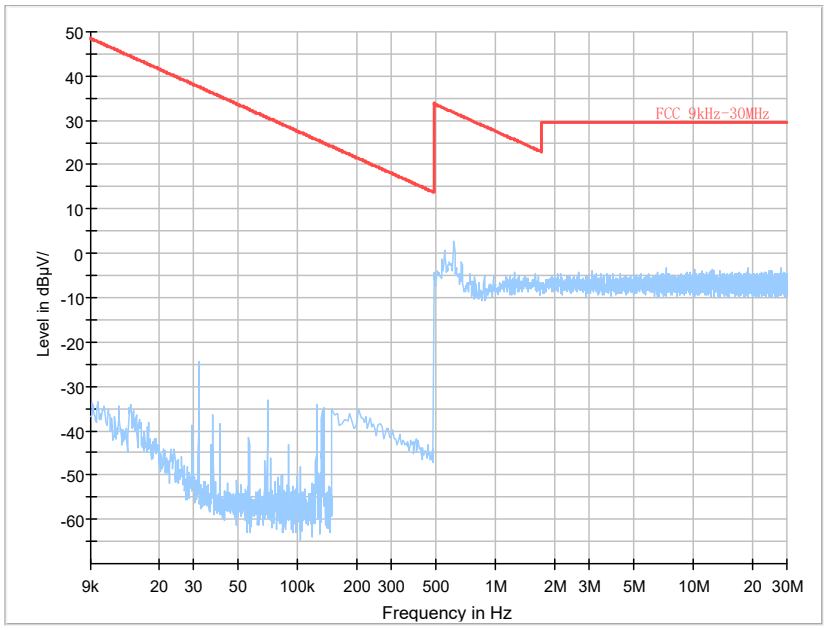
Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



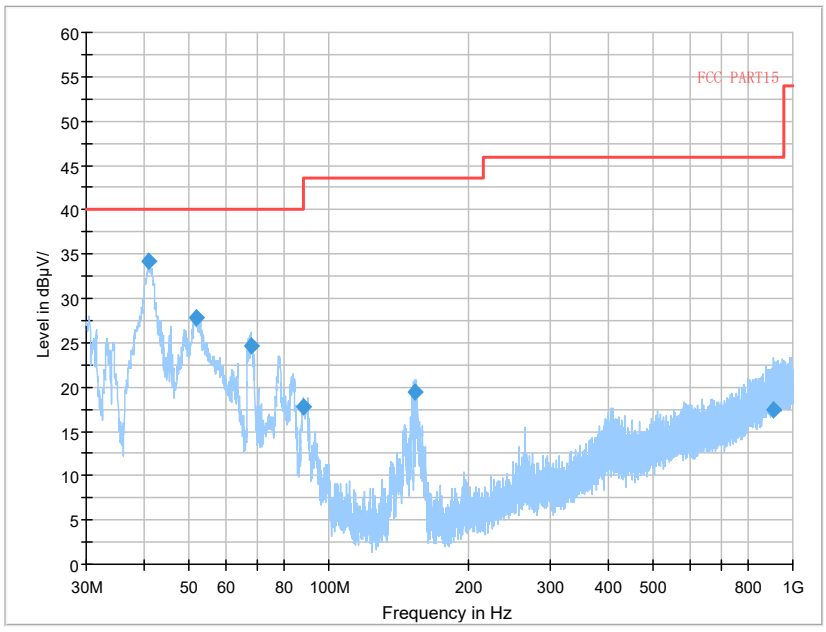
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

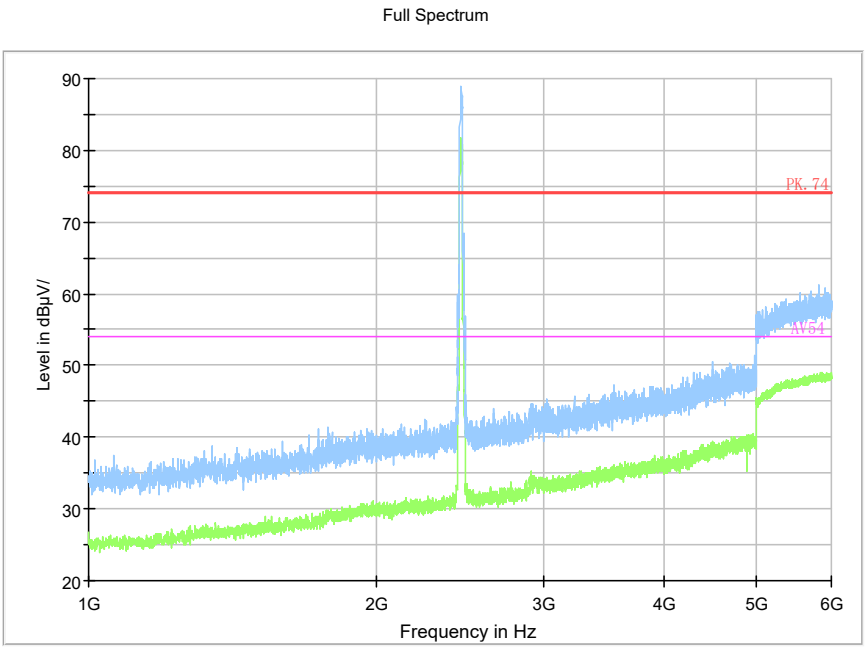
Carrier frequency (MHz): 2457
Channel No.:10



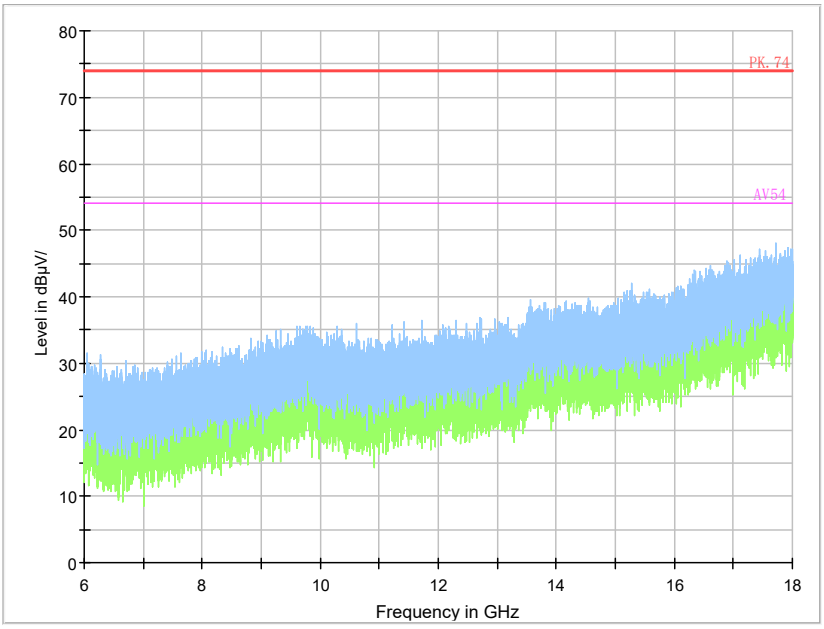
Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11g



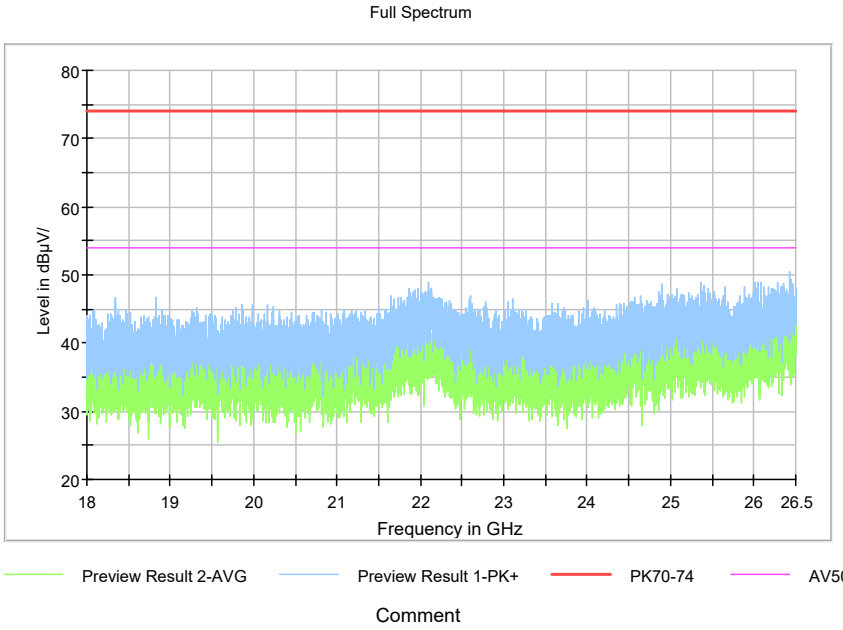
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11g



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

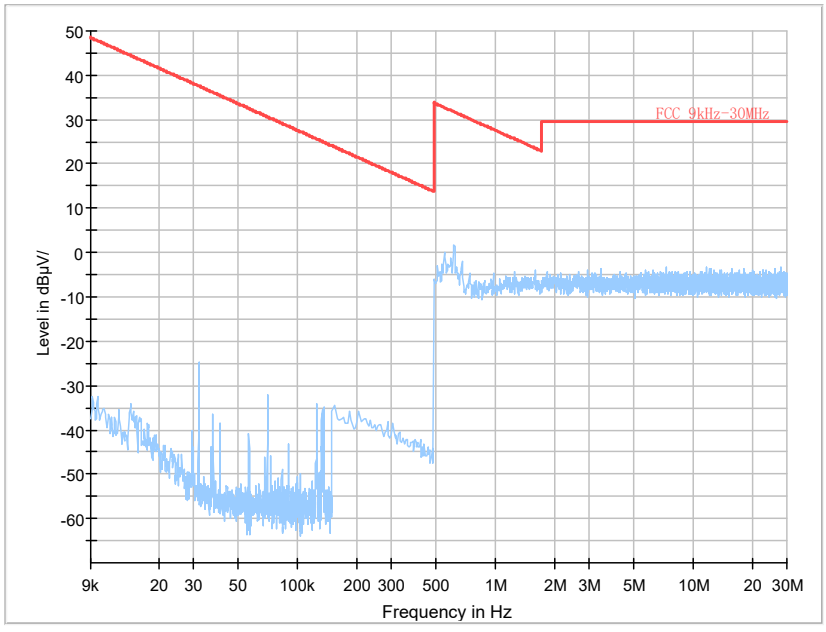


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

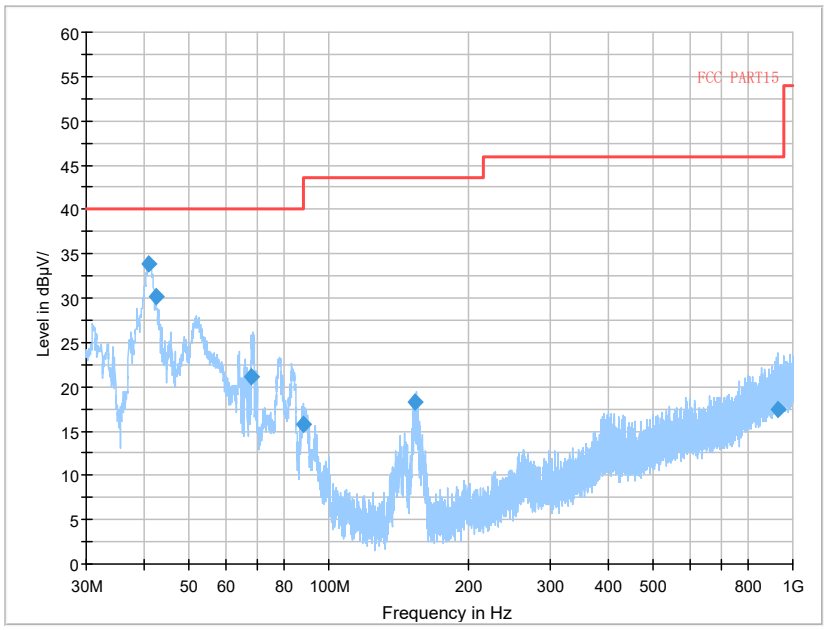


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Carrier frequency (MHz): 2462
Channel No.:11

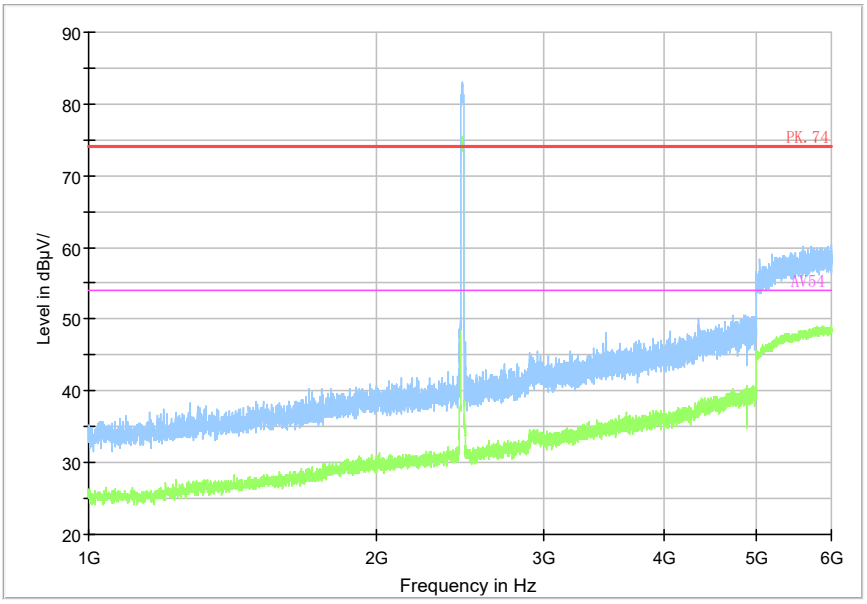


Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11g

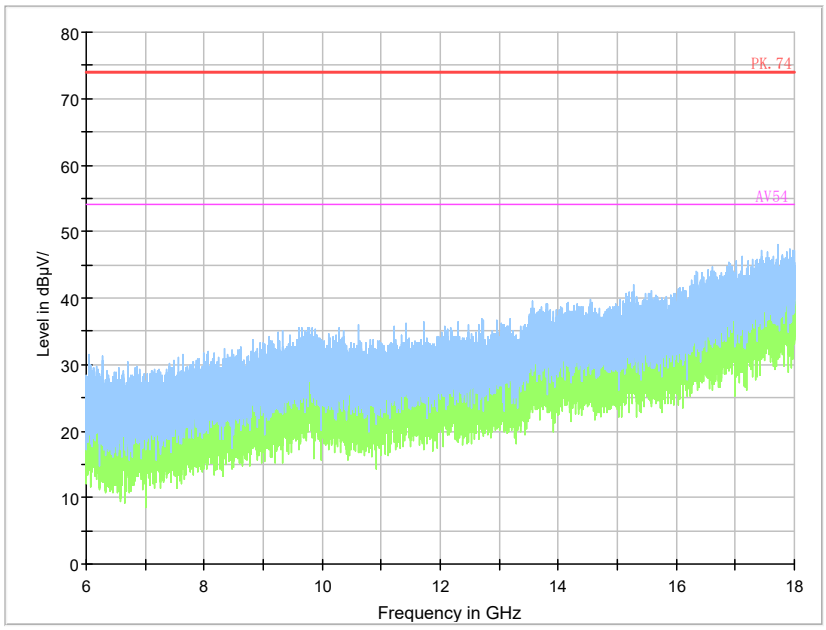


Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11g

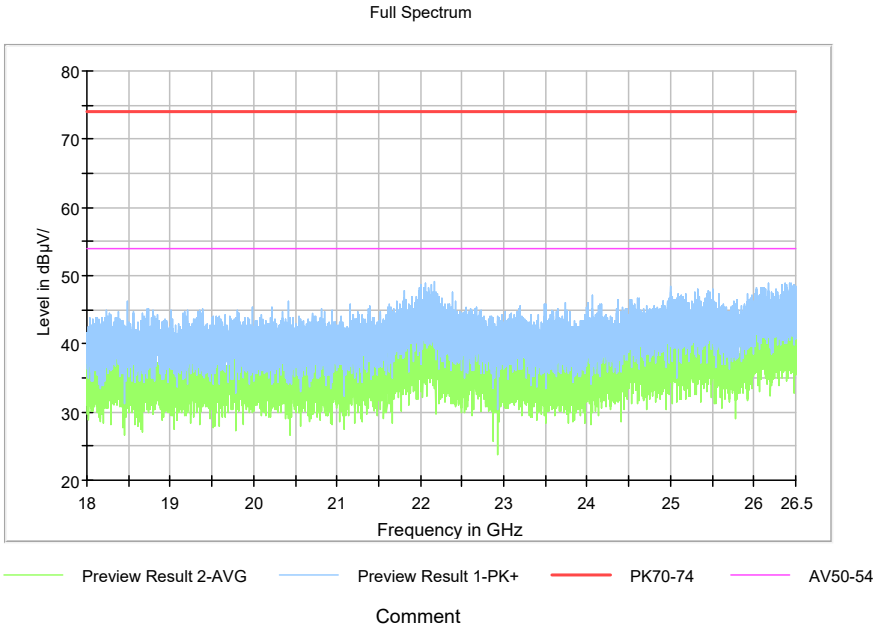
Full Spectrum



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

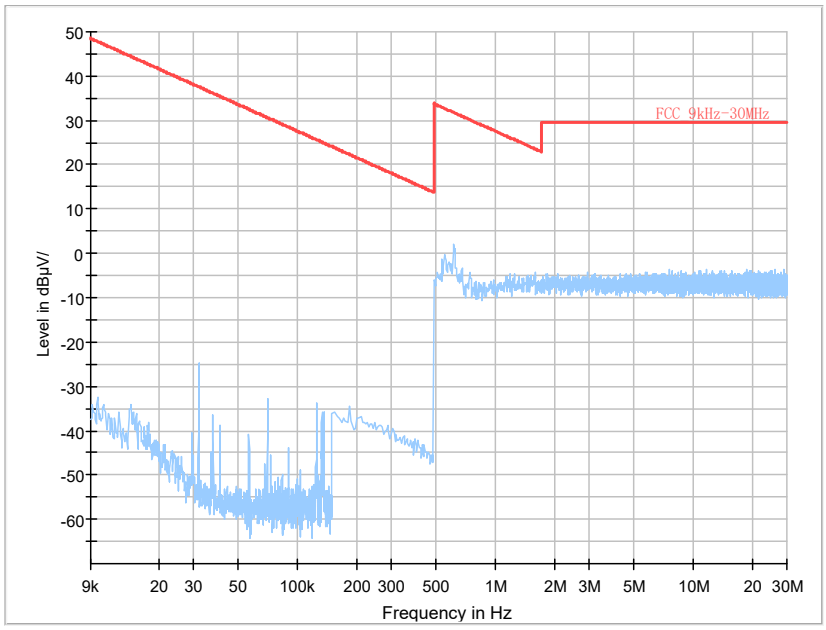


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

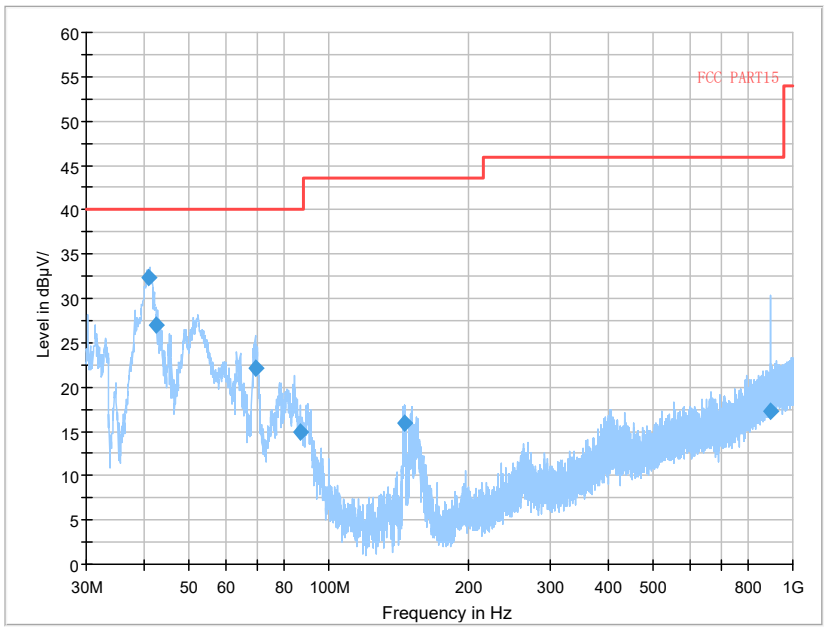


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Carrier frequency (MHz): 2412
Channel No.:1

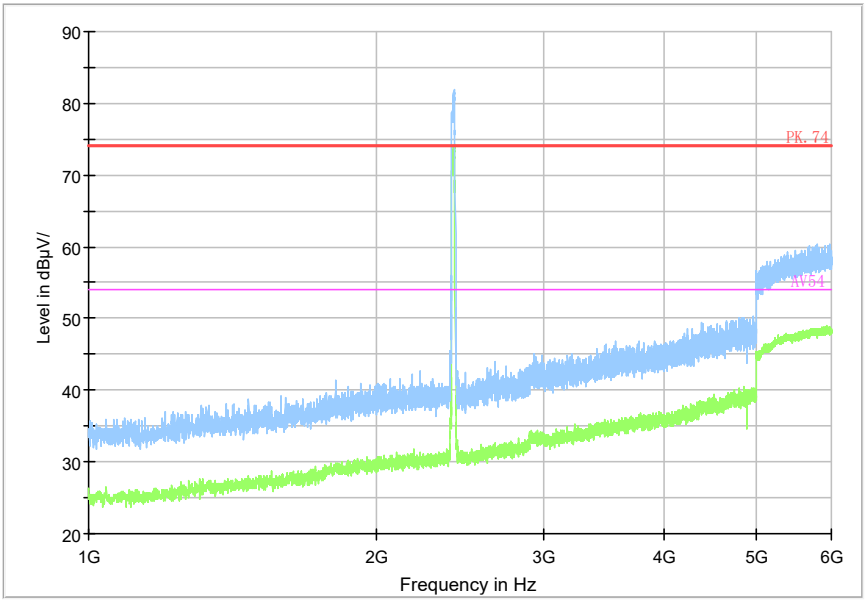


Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11n(HT20)

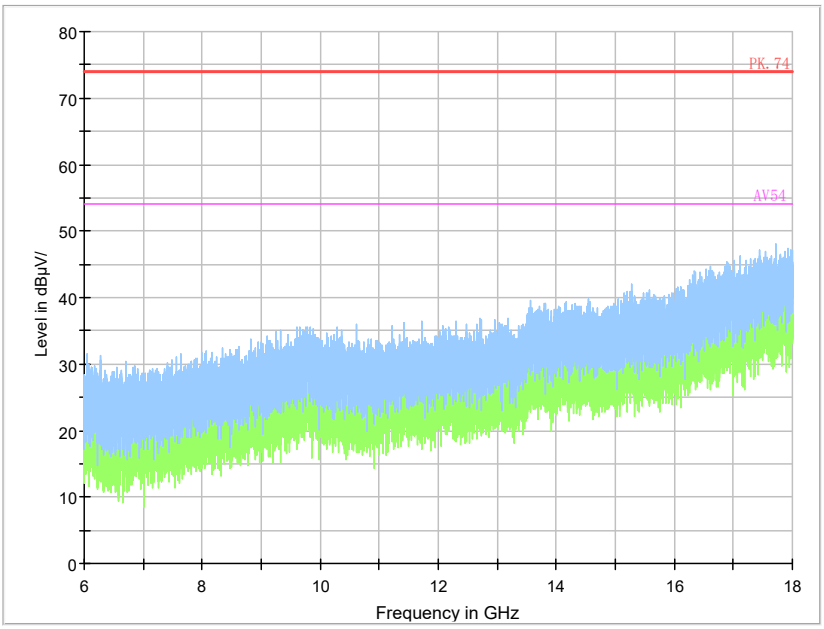


Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT20)

Full Spectrum



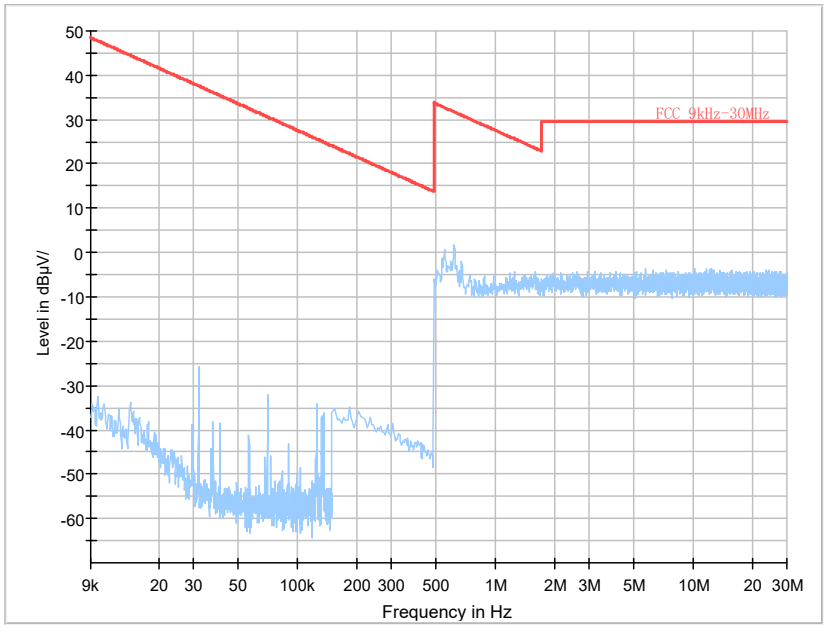
Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)



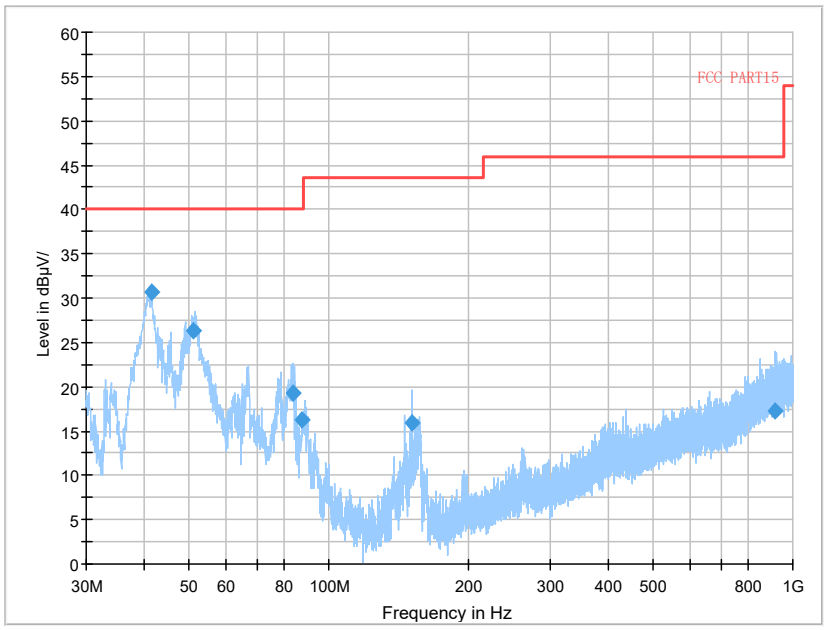
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

Carrier frequency (MHz): 2417
Channel No.:2

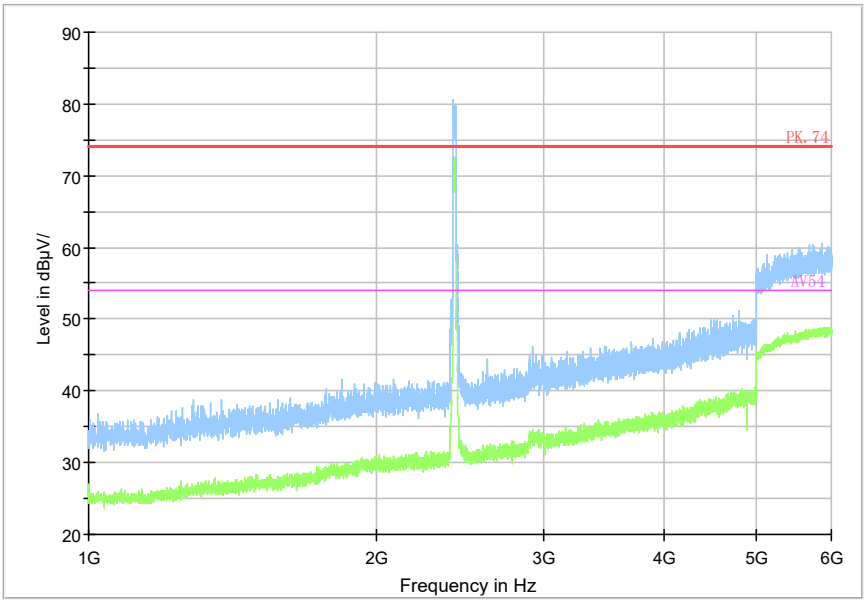


Frequency Range: 9kHz-30MHz
Detector: QP mode
Modulation type: 802.11 n(HT20)

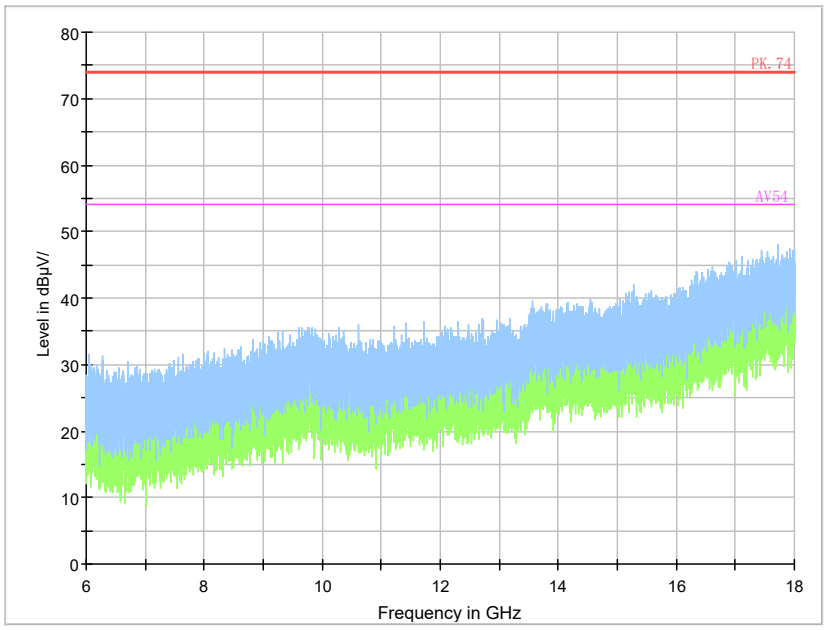


Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11 n(HT20)

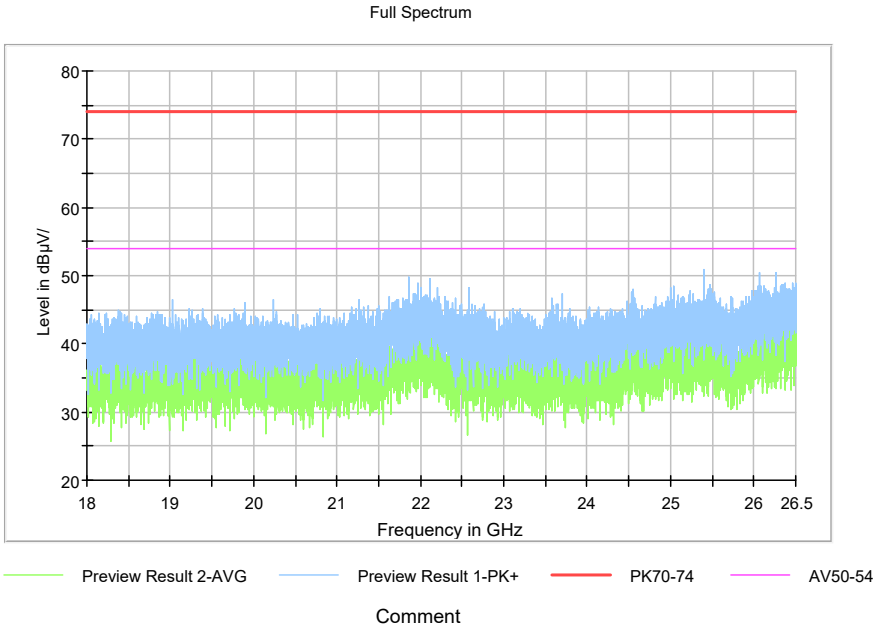
Full Spectrum



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

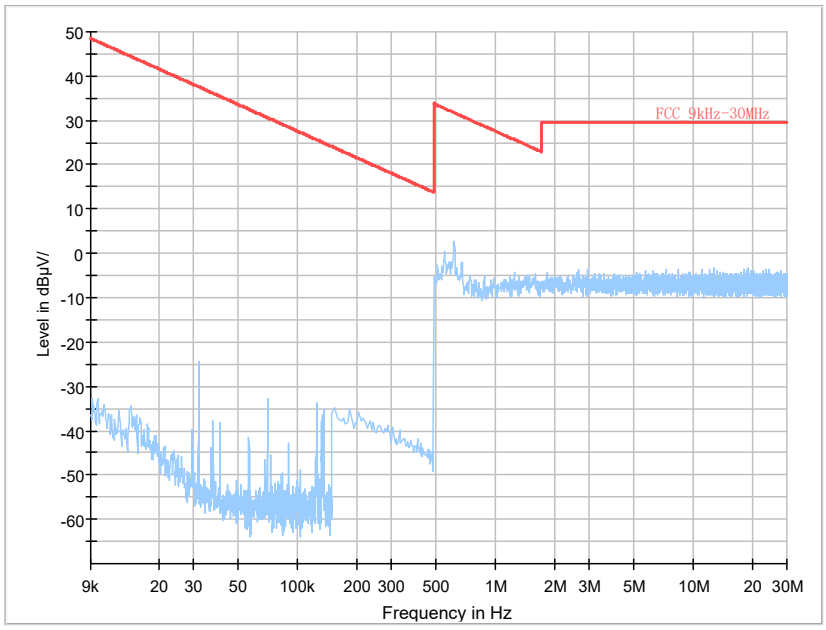


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

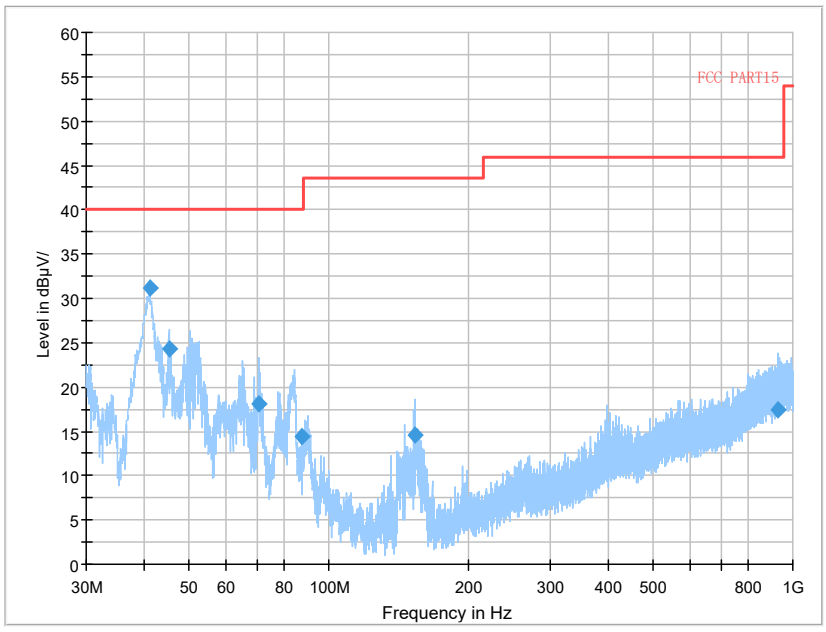


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

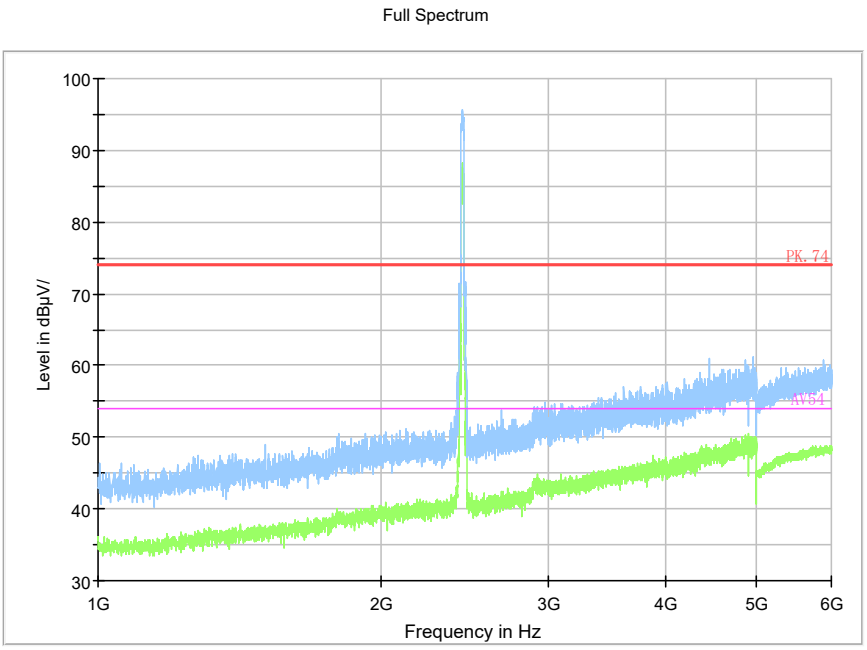
Carrier frequency (MHz): 2437
Channel No.:6



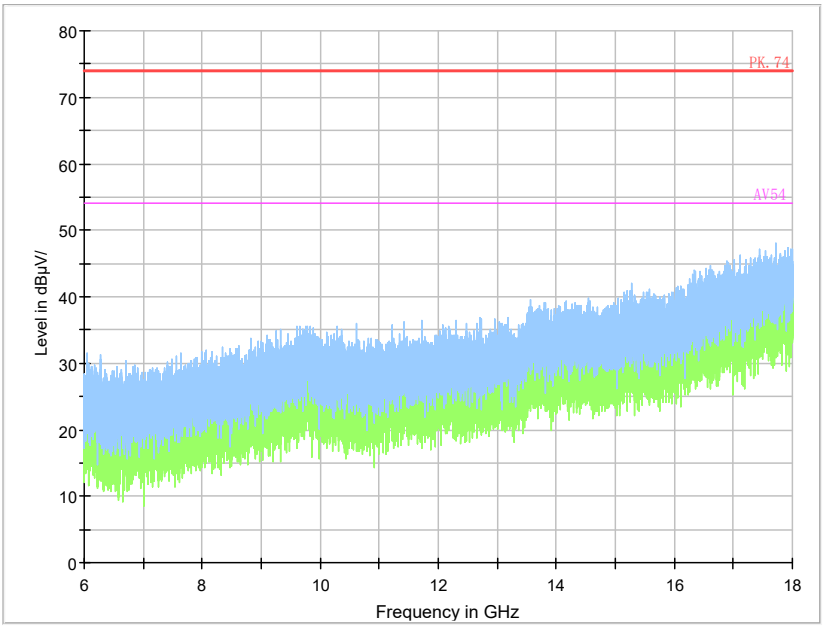
Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11 n(HT20)



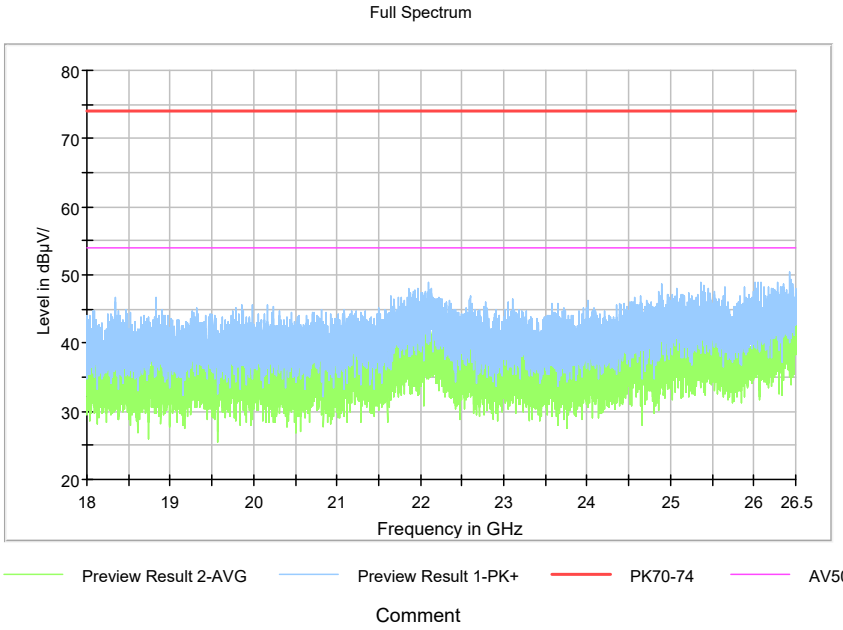
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11 n(HT20)



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

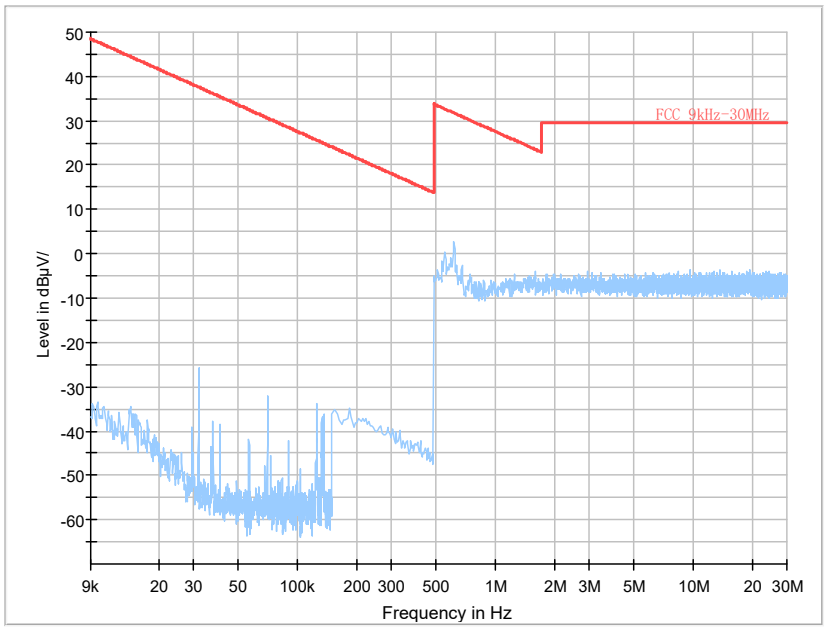


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

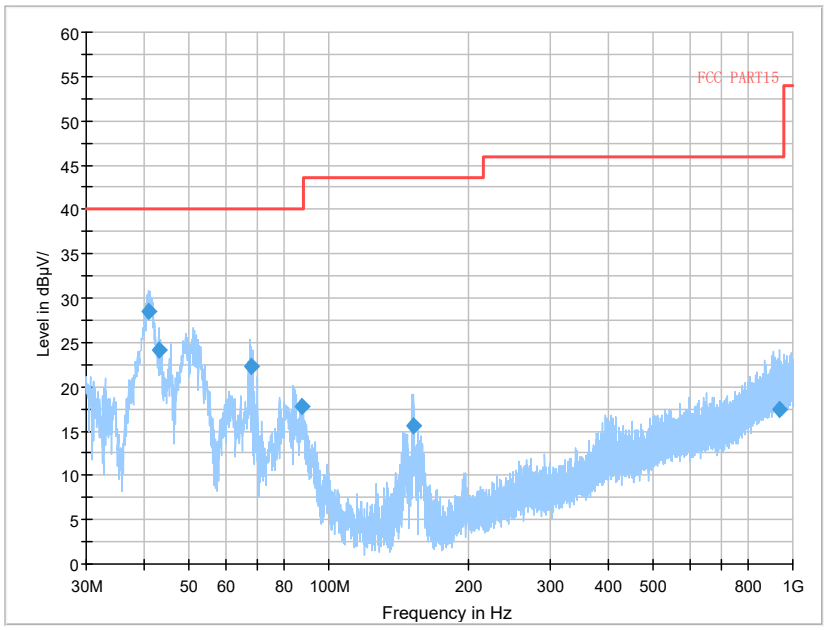


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

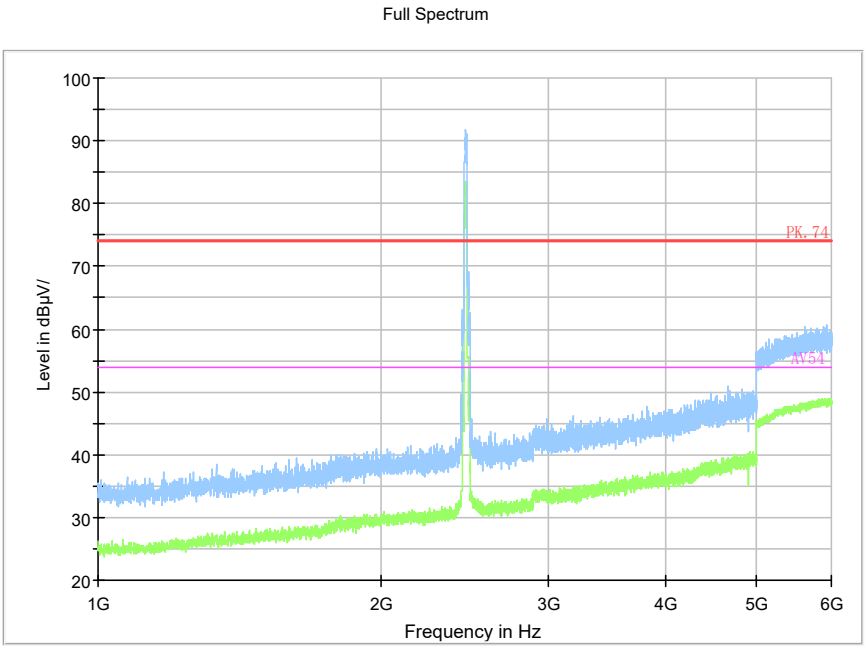
Carrier frequency (MHz): 2457
Channel No.:10



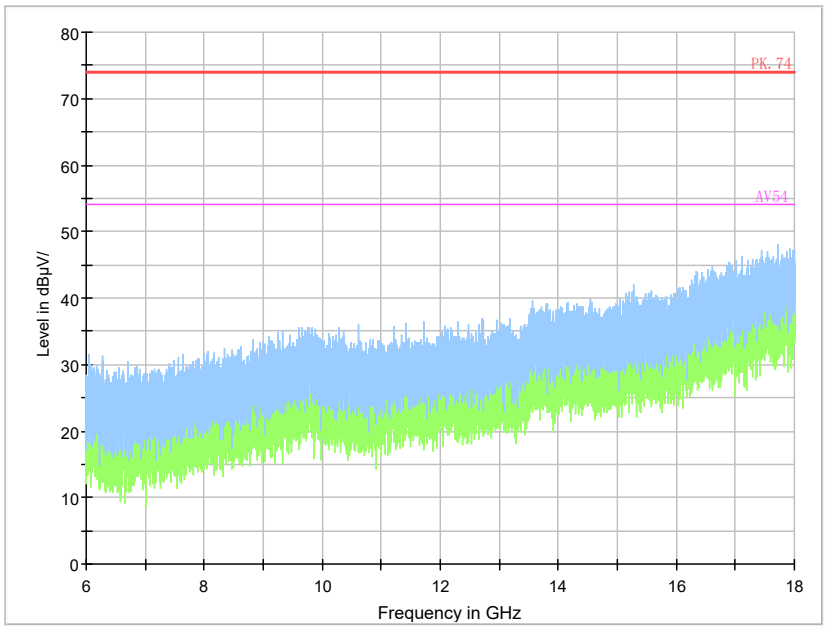
Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11 n(HT20)



Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11 n(HT20)



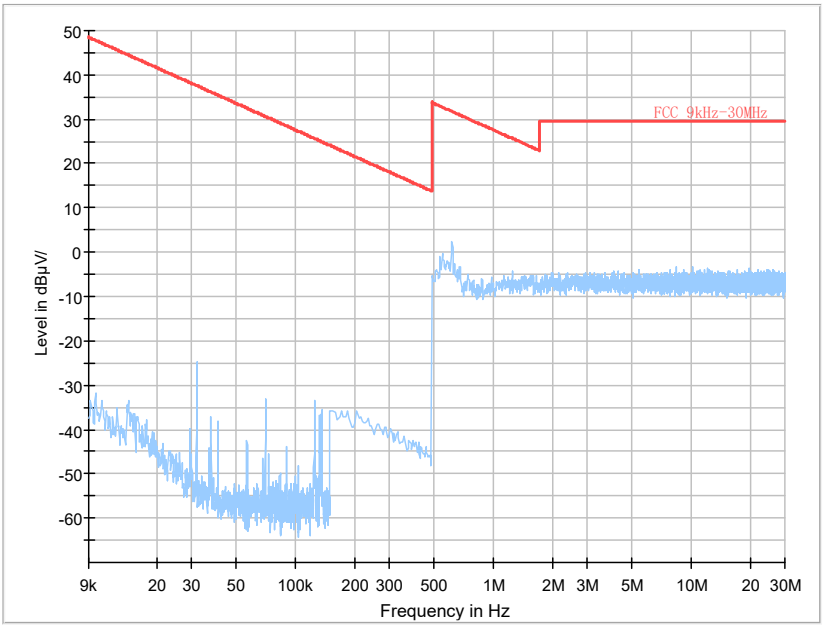
Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)



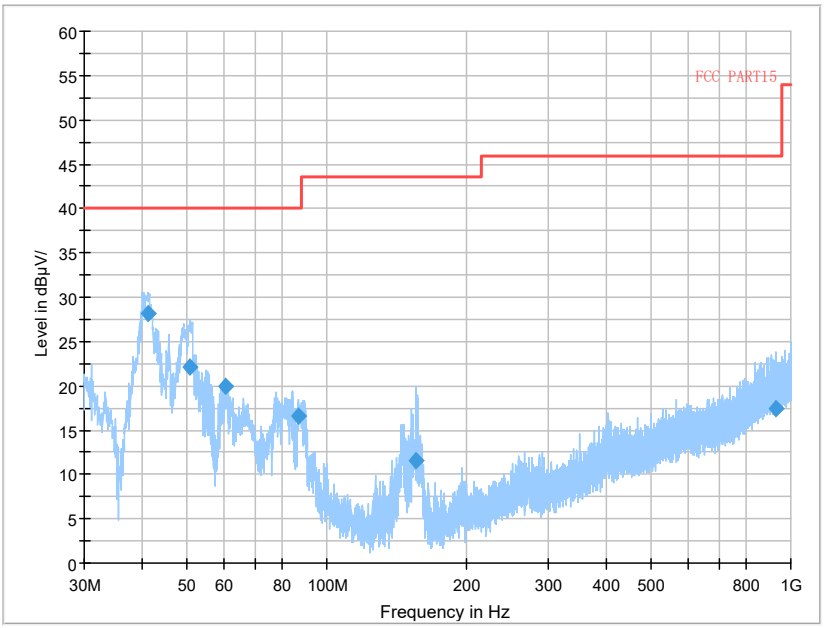
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

Carrier frequency (MHz): 2462
Channel No.:11

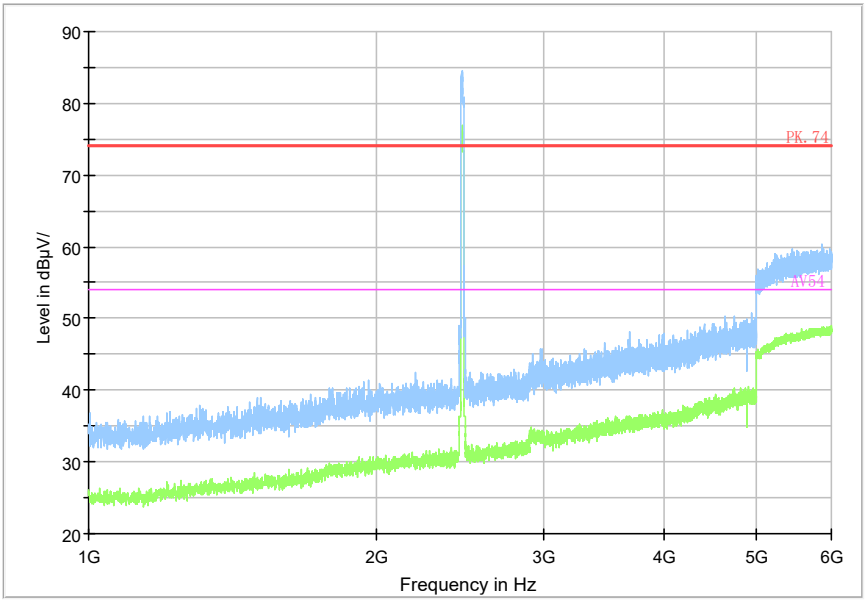


Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11 n(HT20)

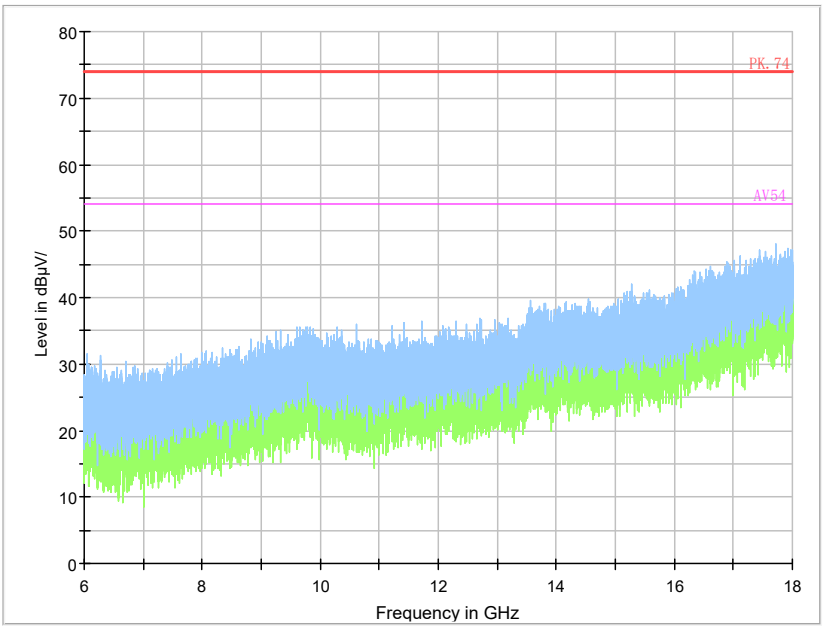


Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11 n(HT20)

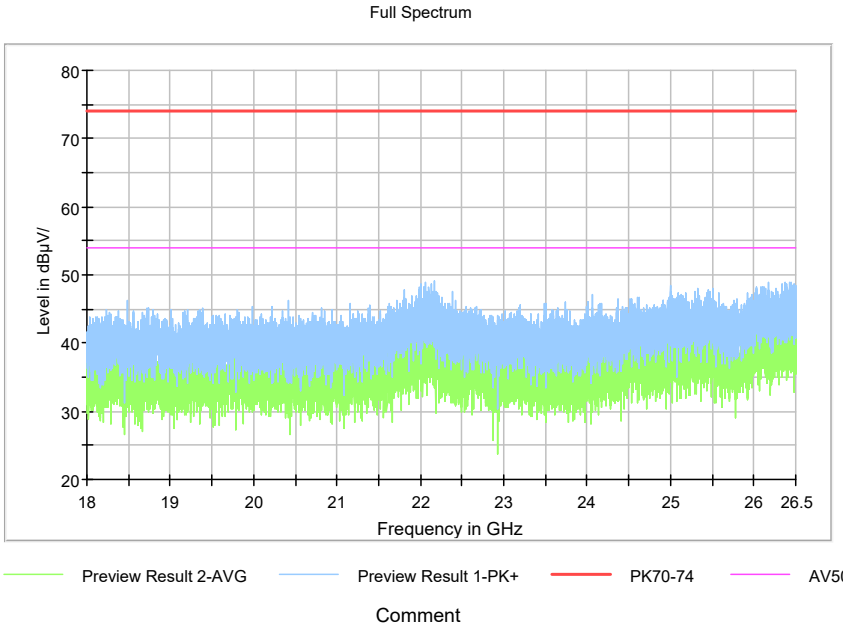
Full Spectrum



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

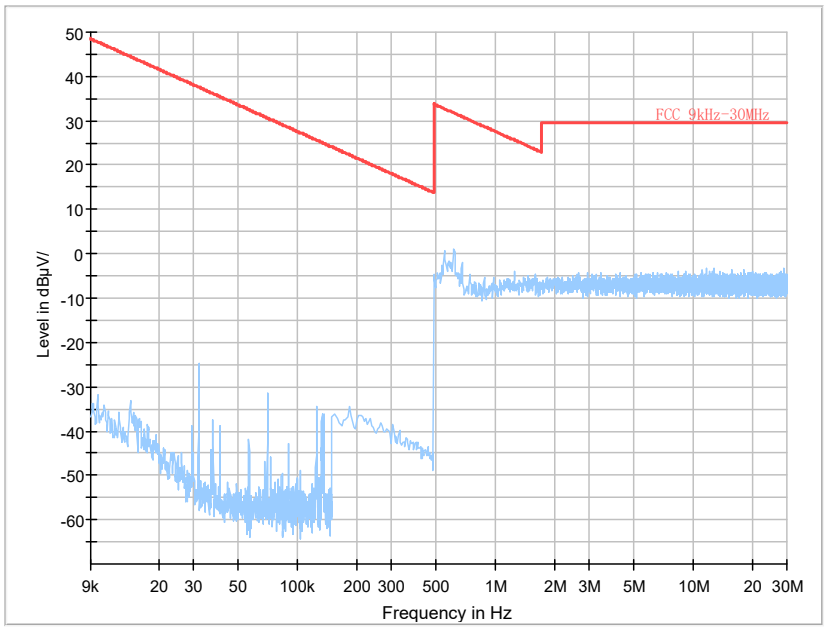


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

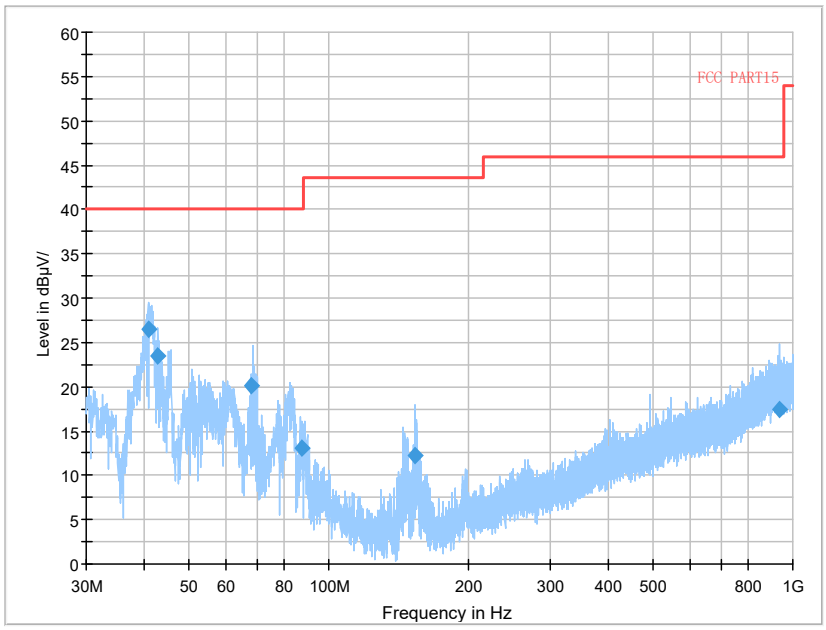


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT20)

Carrier frequency (MHz): 2422
Channel No.:3

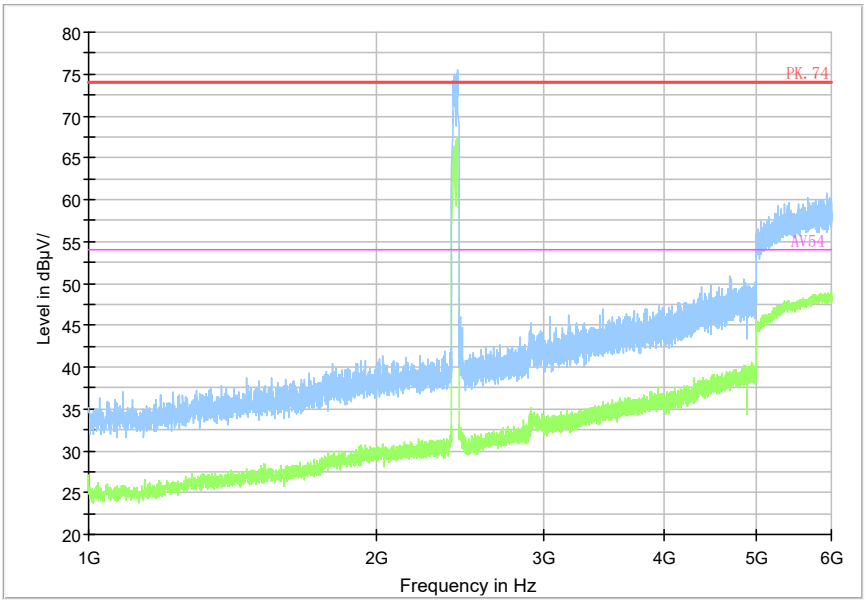


Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11 n(HT40)

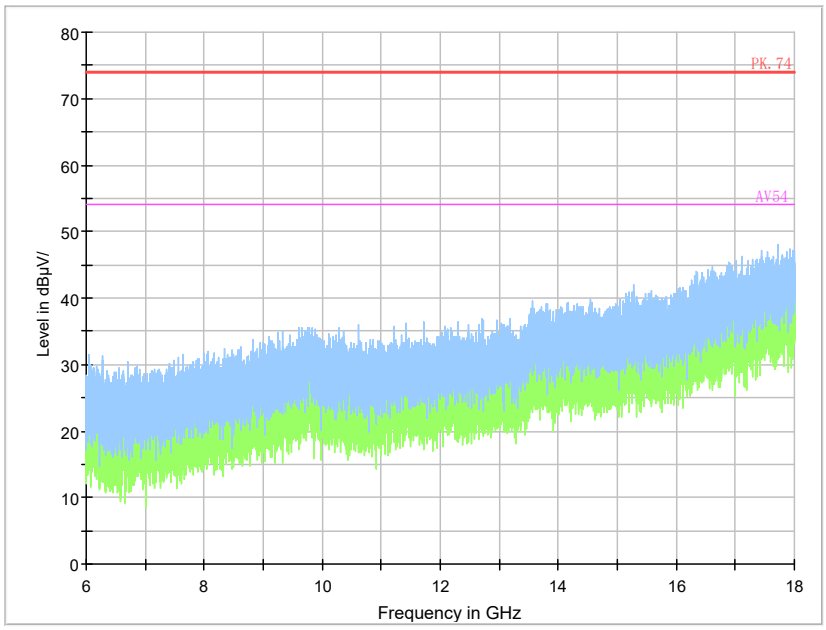


Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11 n(HT40)

Full Spectrum



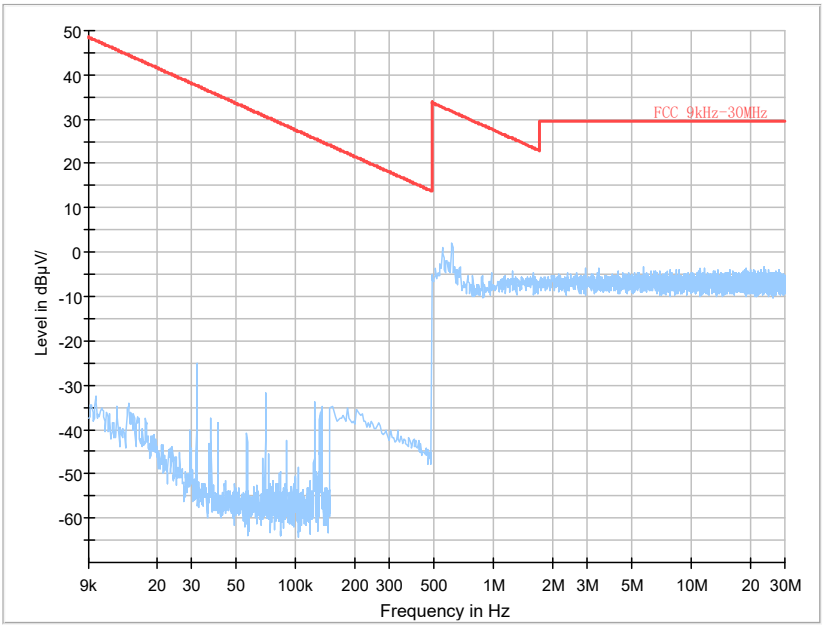
Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)



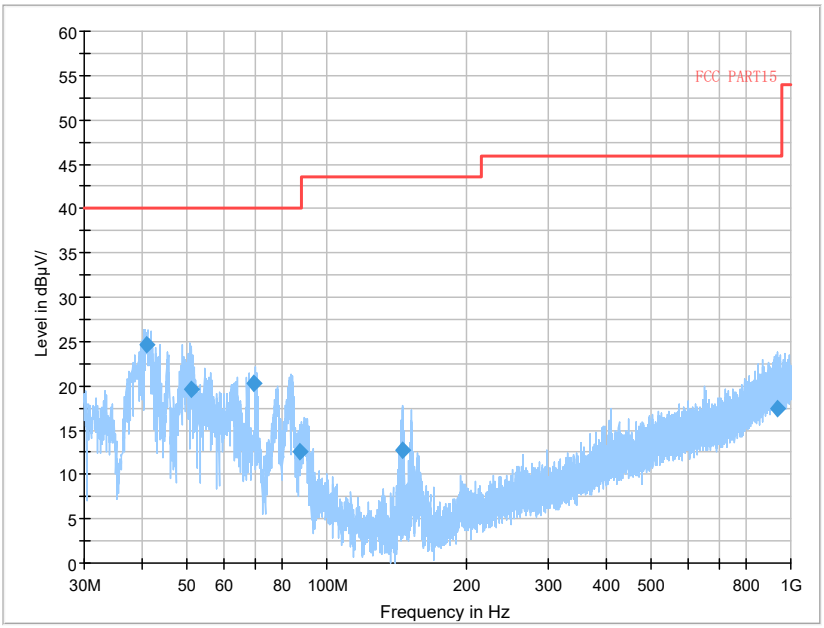
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)

Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)

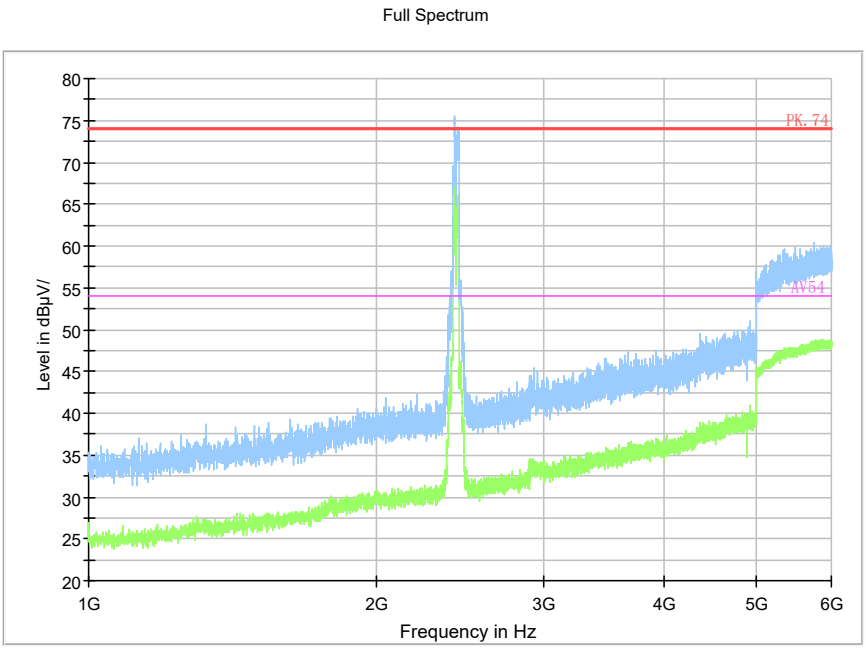
Carrier frequency (MHz): 2427
Channel No.:4



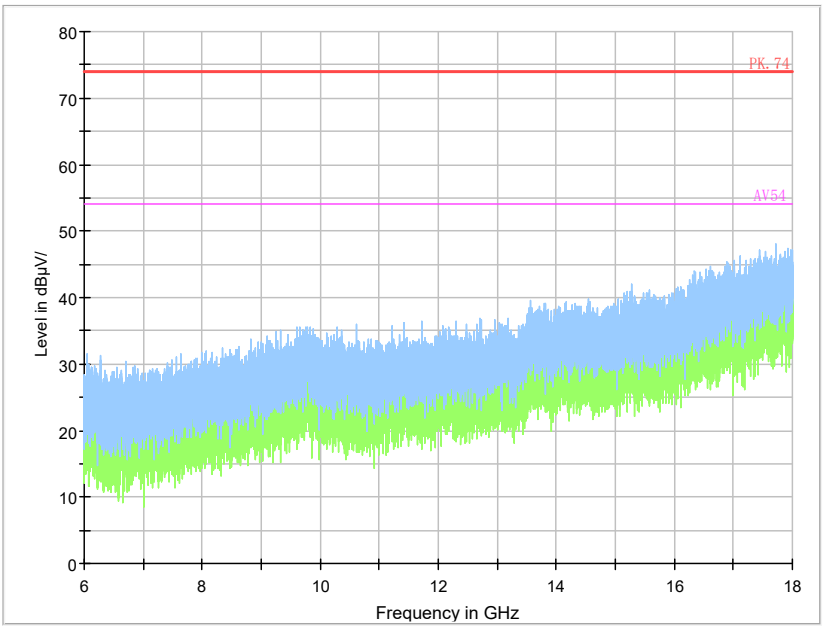
Frequency Range: 9kHz-30MHz
Detector: QP mode
Modulation type: 802.11 n(HT40)



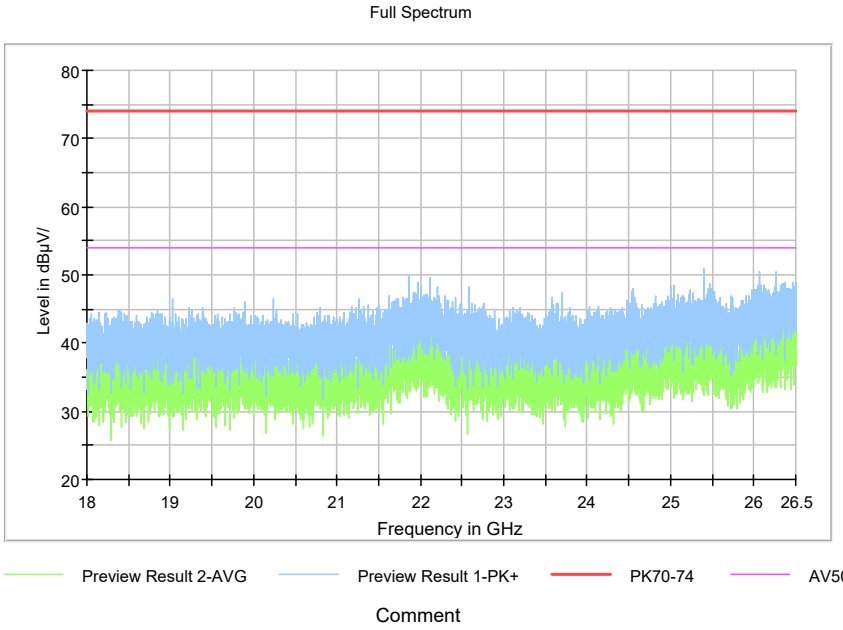
Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11 n(HT40)



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)

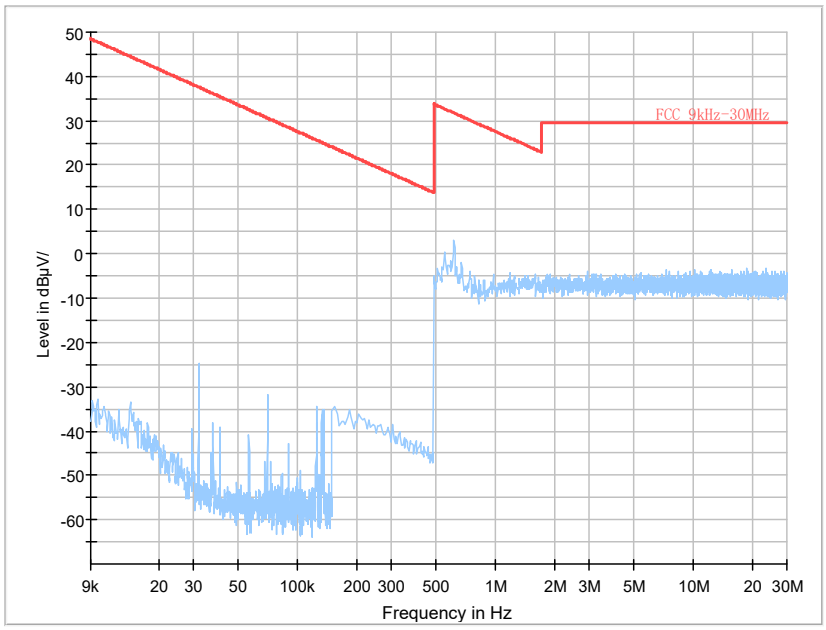


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)

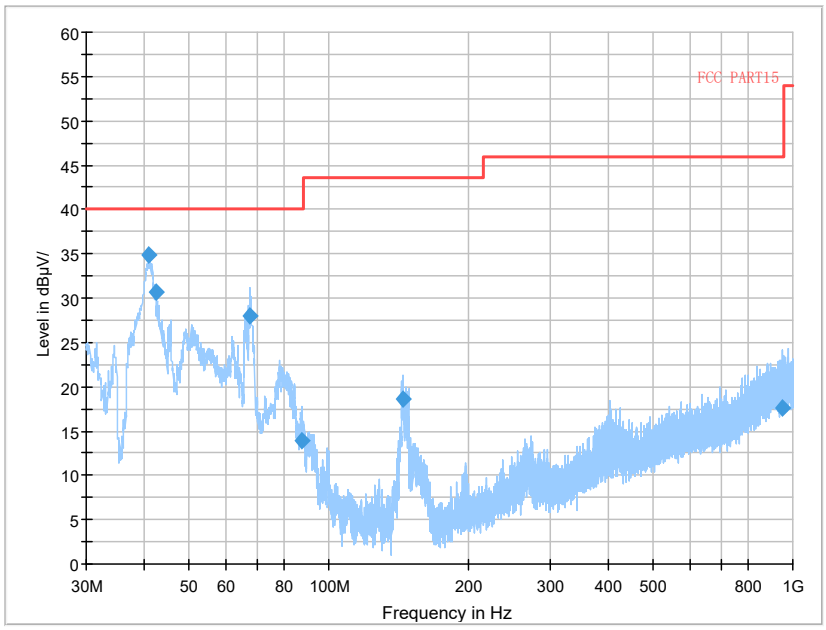


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)

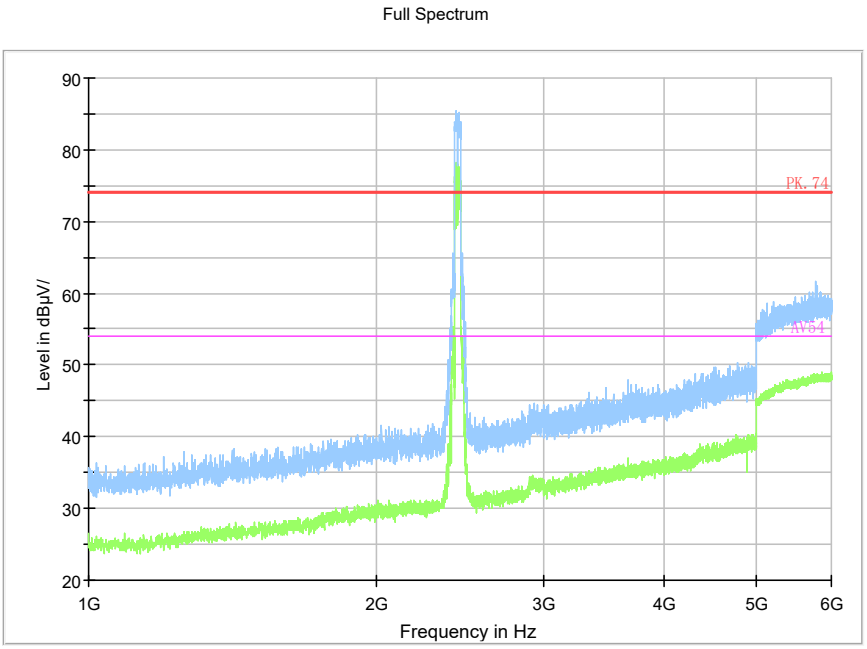
Carrier frequency (MHz): 2437
Channel No.:6



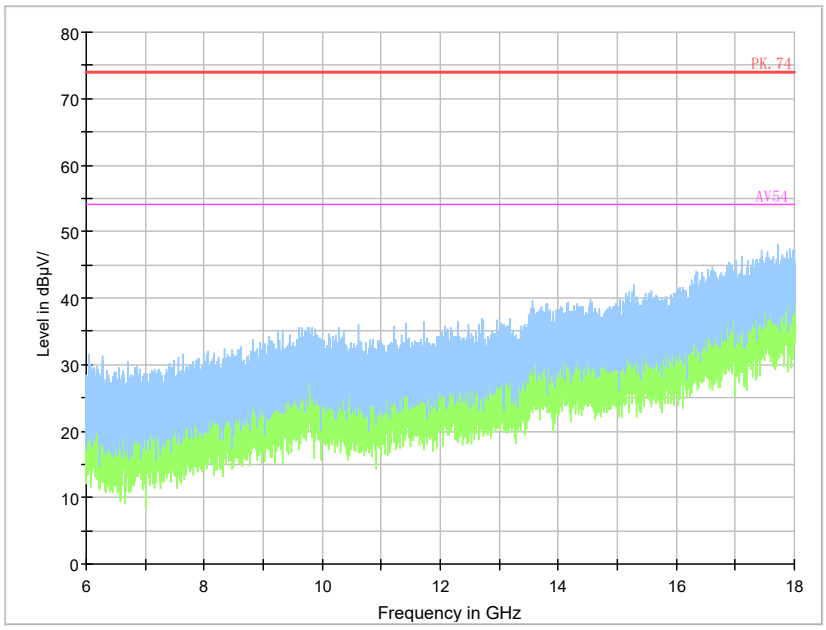
Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11 n(HT40)



Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11 n(HT40)



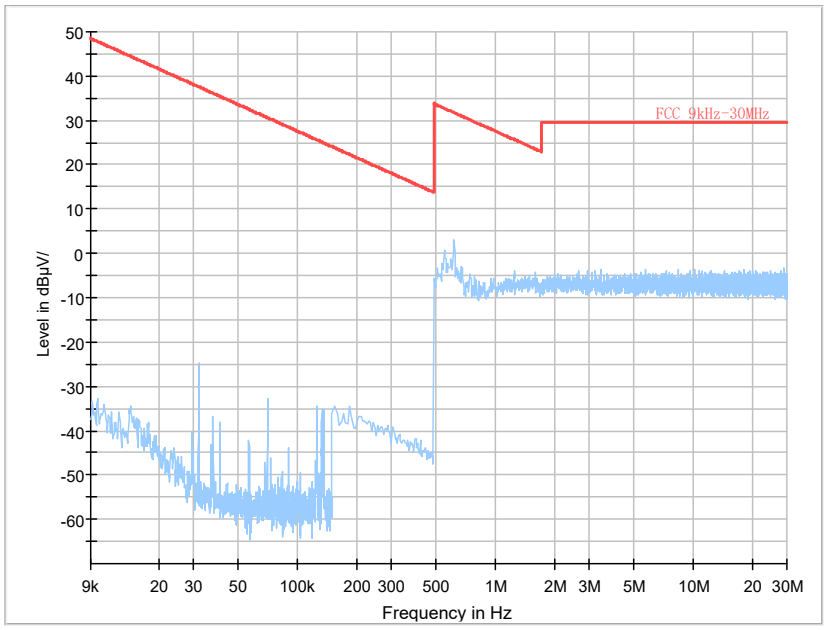
Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)



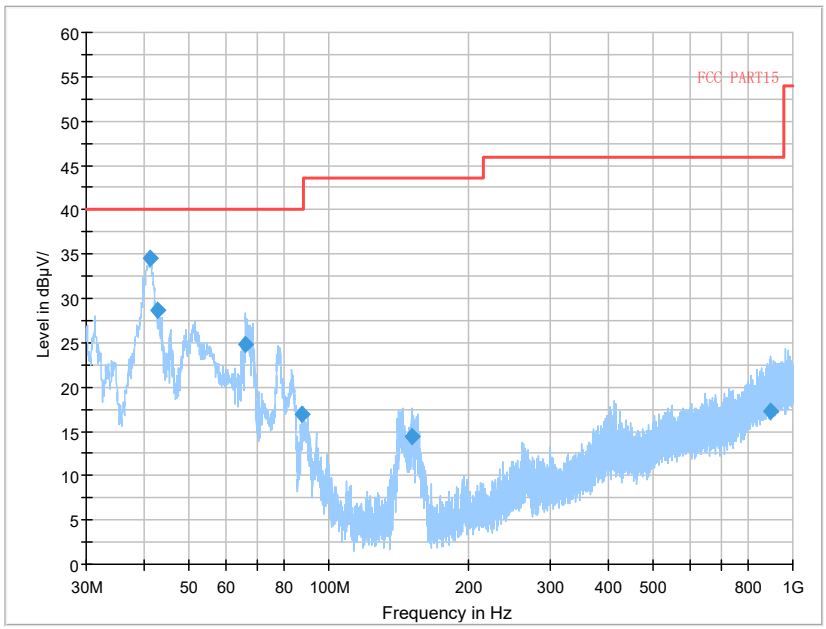
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)

Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)

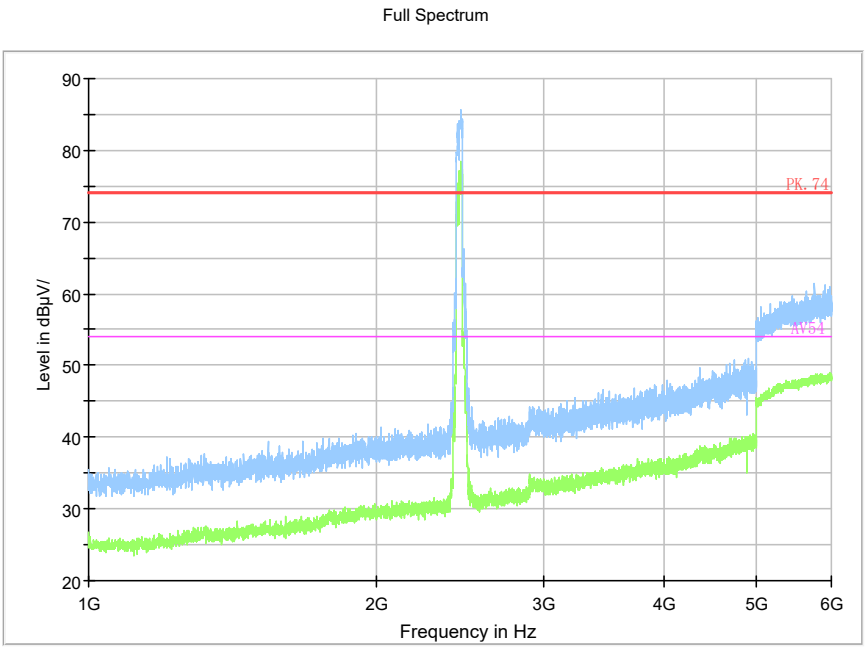
Carrier frequency (MHz): 2447
Channel No.:8



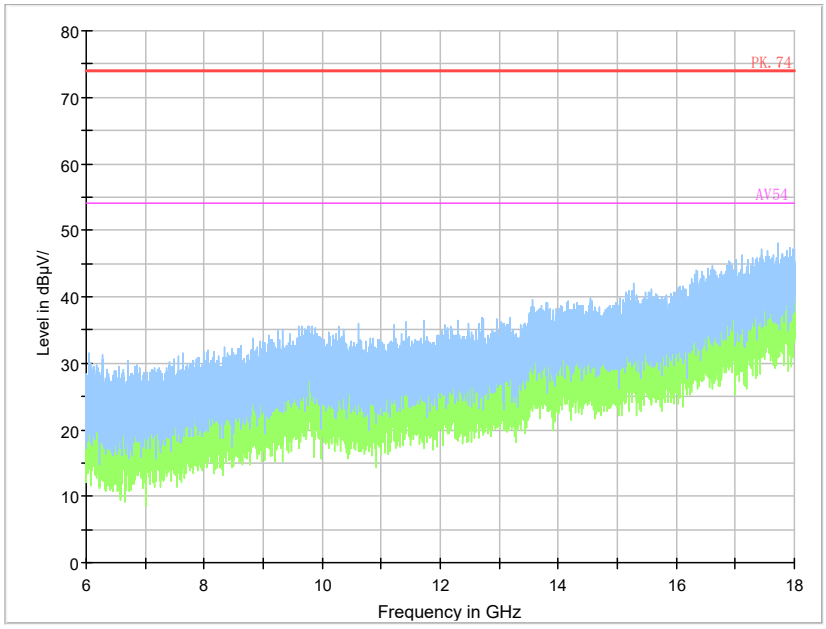
Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11 n(HT40)



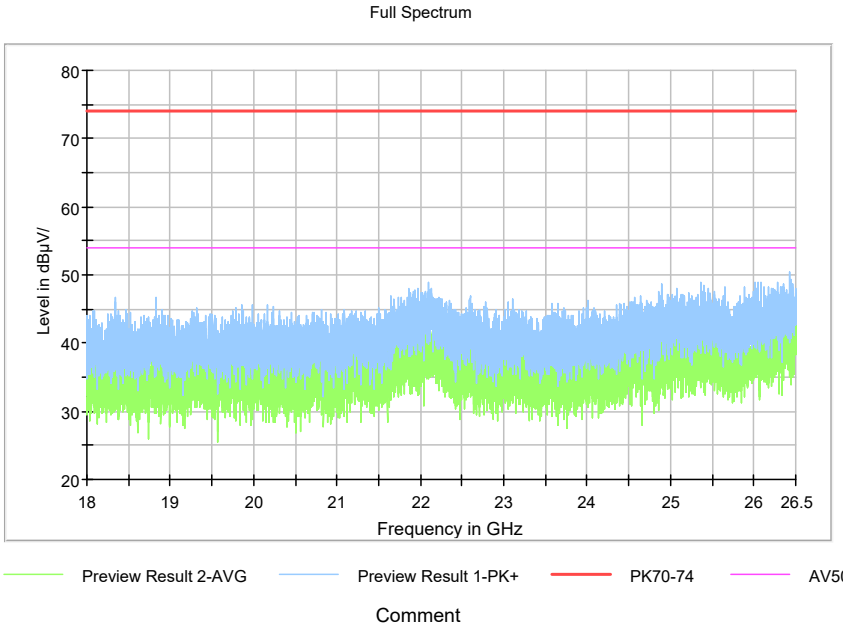
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11 n(HT40)



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)

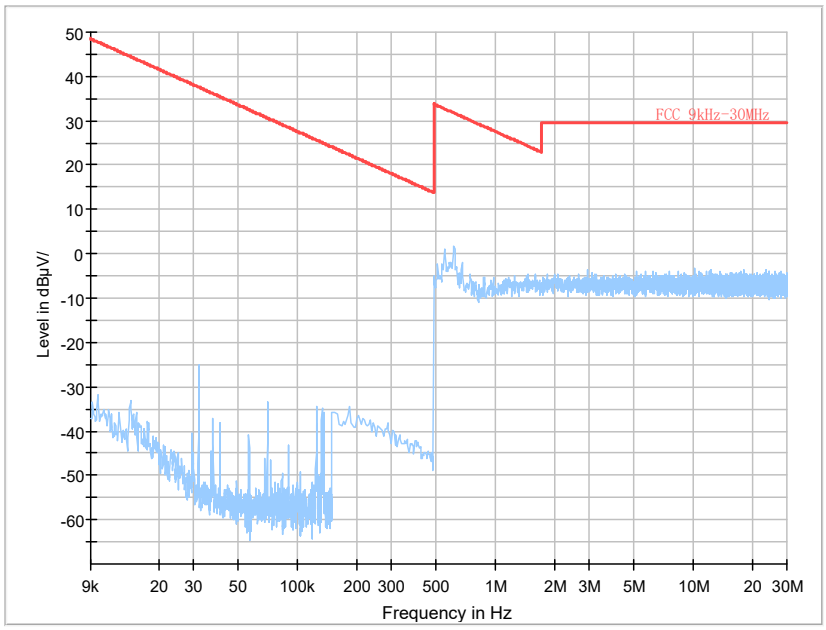


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)

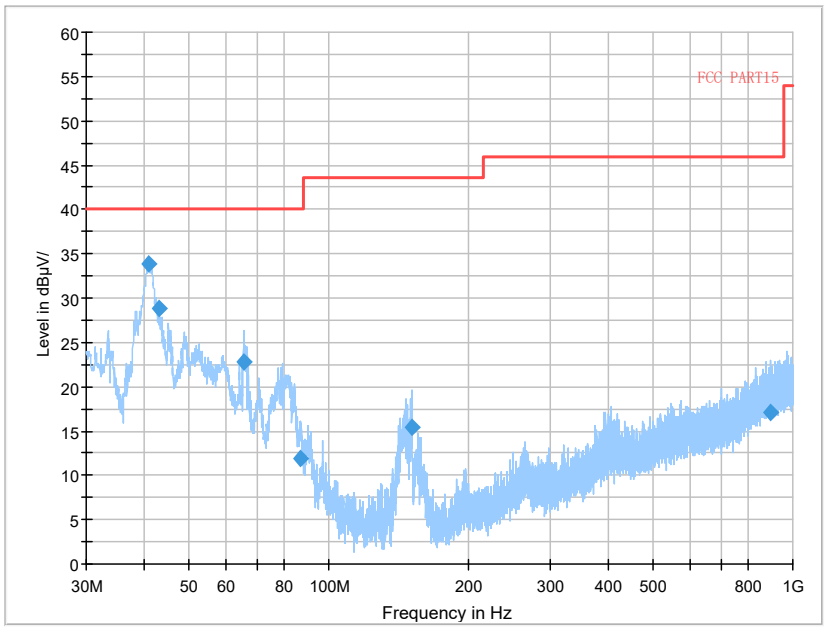


Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)

Carrier frequency (MHz): 2452
Channel No.:9

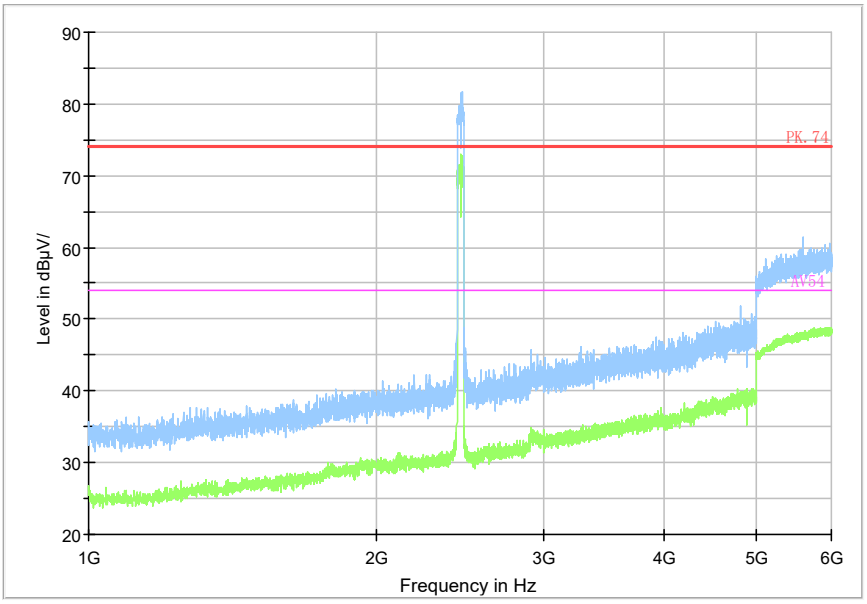


Frequency Range: 9kHz-30MHz
Detector: QP mode
Test Mode: 802.11 n(HT40)

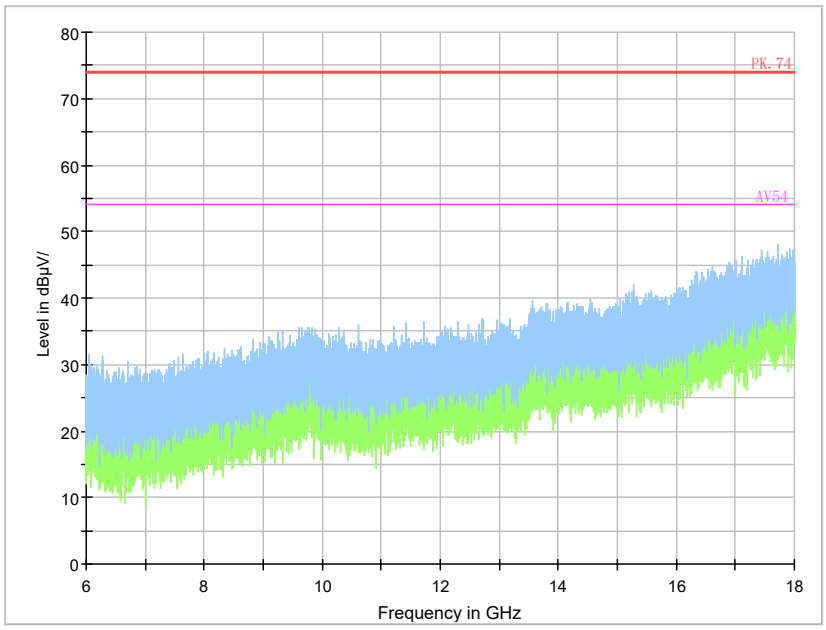


Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11 n(HT40)

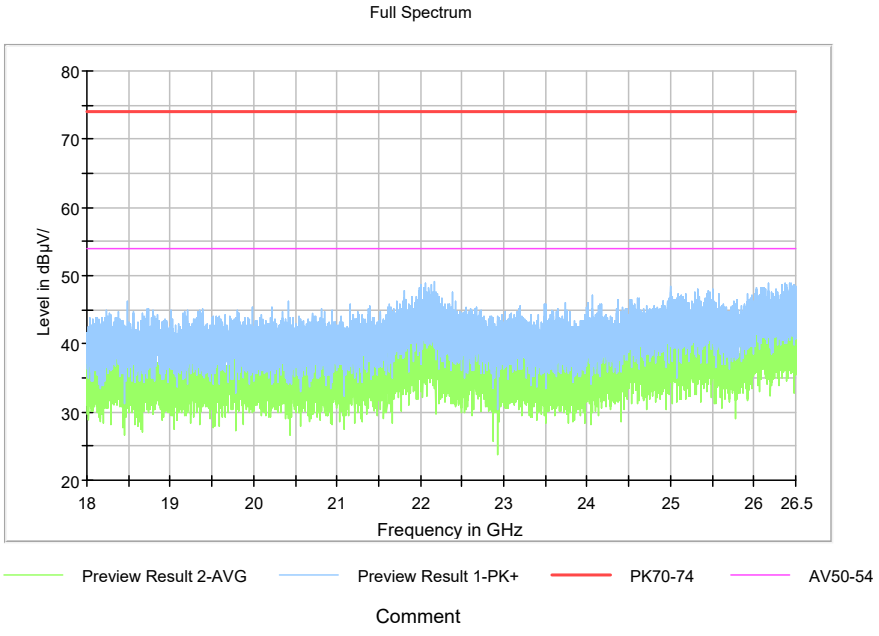
Full Spectrum



Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)



Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11 n(HT40)

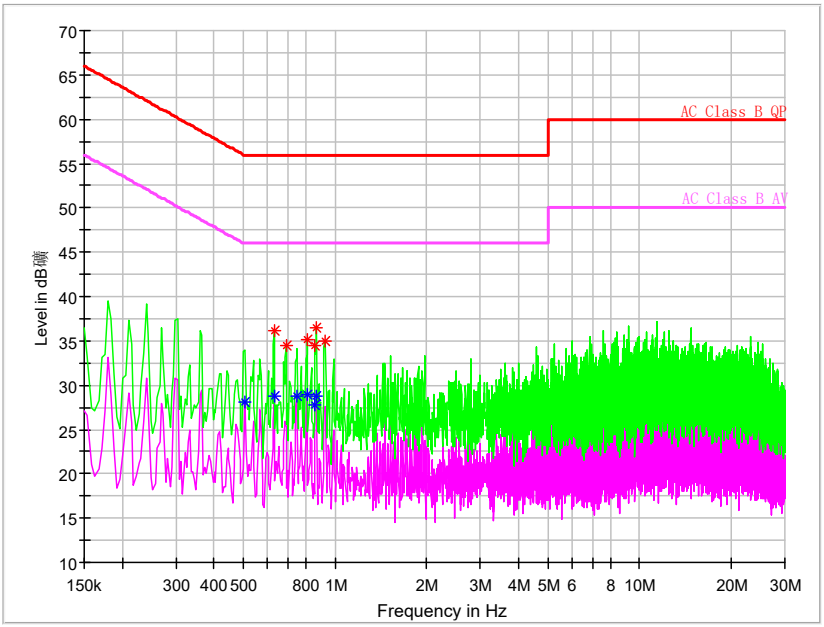
AC Power line Conducted Emission

A “reference path loss” Corr.(dB) is established and the L_{cable}+ATT+VDF is the attenuation of ” reference path loss”, and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

The measurement results are obtained as described below:

$P_{result}=P_{mea}$+ Corr.(dB)

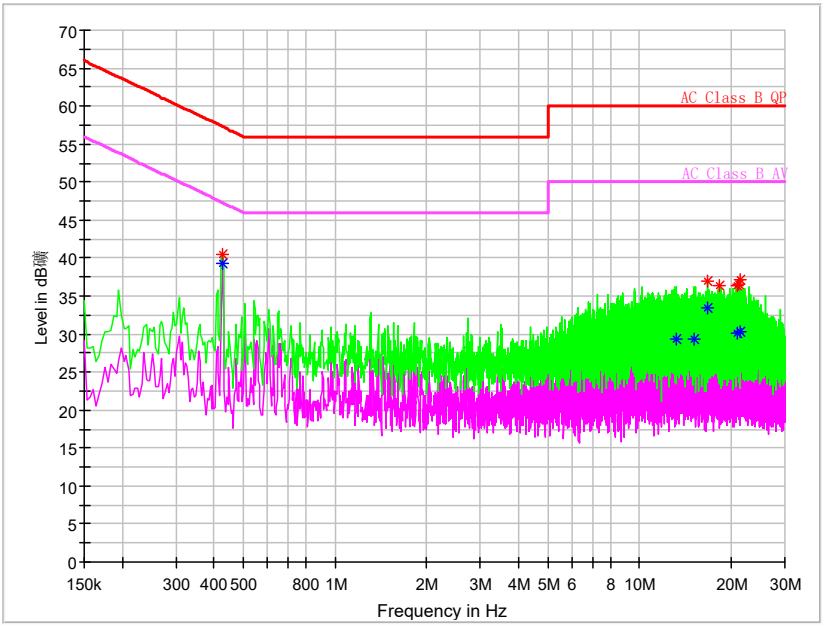
Sample calculation: (27.80 dBμV) = (-1.9dBμV) + (29.7 dB), the corresponding frequency is 0.380271MHz.



L+N Line Voltage：120VAC

MEASUREMENT RESULT:

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P_{mea} QuasiPeak (dBμV)	P_{mea} Average (dBμV)
0.508200	---	28.02	46.00	17.98	L1	29.7	---	-1.68
0.631864	36.23	---	56.00	19.77	L1	29.7	6.53	---
0.631864	---	28.80	46.00	17.20	L1	29.7	---	-0.9
0.691564	34.41	---	56.00	21.59	L1	29.7	4.71	---
0.747000	---	28.73	46.00	17.28	L1	29.7	---	-0.97
0.806700	---	28.99	46.00	17.01	L1	29.7	---	-0.71
0.810964	35.09	---	56.00	20.91	N	29.7	5.39	---
0.862136	---	27.84	46.00	18.16	L1	29.7	---	-1.86
0.862136	34.48	---	56.00	21.52	L1	29.7	4.78	---
0.870664	---	28.74	46.00	17.26	L1	29.7	---	-0.96
0.870664	36.50	---	56.00	19.50	L1	29.7	6.8	---
0.930364	35.05	---	56.00	20.95	N	29.7	5.35	---



L+N Line Voltage：240VAC

MEASUREMENT RESULT:

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{mea} QuasiPeak (dBµV)	P_{mea} Average (dBµV)
0.426112	40.50	---	57.33	16.83	L1	29.7	10.8	---
0.426112	---	39.39	47.33	7.93	L1	29.7	---	9.69
13.205644	---	29.41	50.00	20.59	L1	29.9	---	-0.49
15.130969	---	29.36	50.00	20.64	L1	29.9	---	-0.54
16.772719	36.88	---	60.00	23.12	L1	29.9	6.98	---
16.772719	---	33.47	50.00	16.53	L1	29.9	---	3.57
18.336112	36.39	---	60.00	23.61	N	29.9	6.49	---
20.940525	36.34	---	60.00	23.66	L1	30.0	6.34	---
20.940525	---	30.10	50.00	19.90	L1	30.0	---	0.1
21.179325	36.59	---	60.00	23.41	L1	30.0	6.59	---
21.403200	37.06	---	60.00	22.94	N	30.0	7.06	---
21.403200	---	30.26	50.00	19.74	L1	30.0	---	0.26

---End of Test Report---