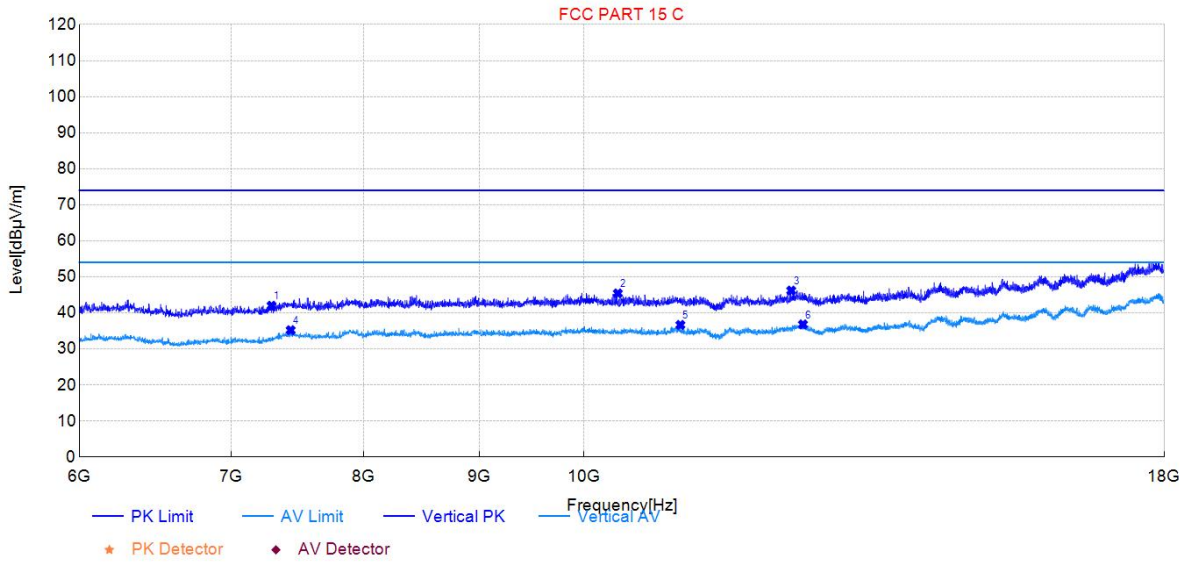
EUT:	2.4GHz Wi-Fi/BLE Module	Polarity:	Vertical
Model:	EMC6270-E	S/N:	/
Mode:	Transmit by 802.11b at Channel 2462MHz	Voltage:	DC3.3V
Environment:	Temp: 21℃; Humi:51%	Engineer:	Chuang Li

Test Graph



Frequency (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
7290.00	42.00	-3.54	74.00	32.00	PK	Vertical
10353.00	45.41	0.48	74.00	28.59	PK	Vertical
12340.50	46.19	1.94	74.00	27.81	PK	Vertical
7432.50	35.20	-2.82	54.00	18.80	AV	Vertical
11029.50	36.66	1.23	54.00	17.34	AV	Vertical
12487.50	36.80	2.53	54.00	17.20	AV	Vertical

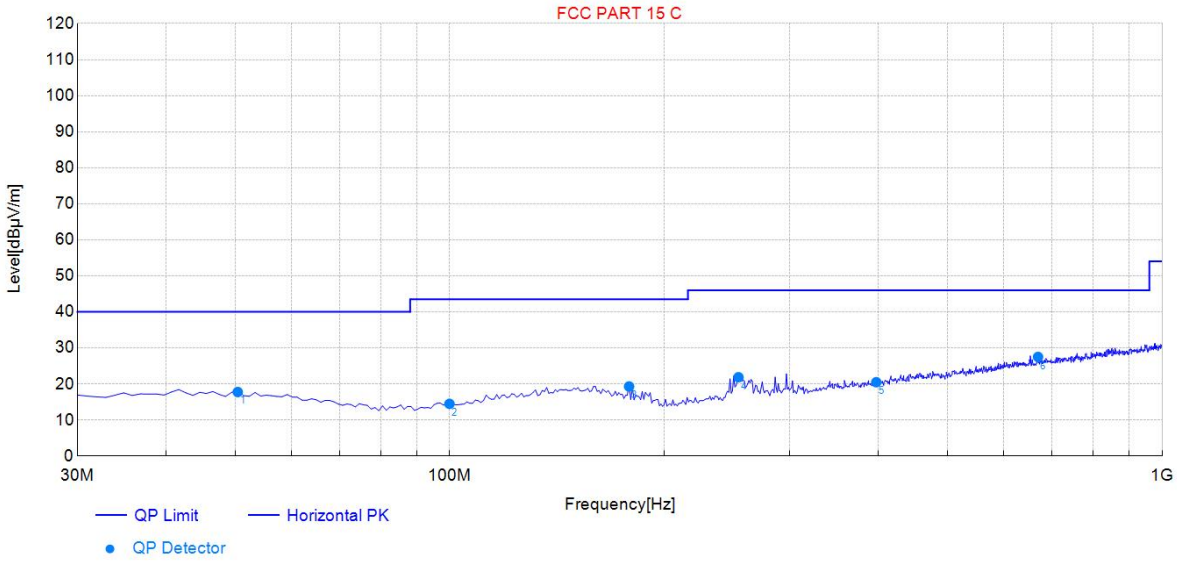
Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	2.4GHz Wi-Fi/BLE Module	Polarity:	Horizontal
Model:	EMC6270-E	S/N:	/
Mode:	Transmit by 802.11b at Channel 2412MHz	Voltage:	DC3.3V
Environment:	Temp: 21℃; Humi:51%	Engineer:	Chuang Li

Test Graph

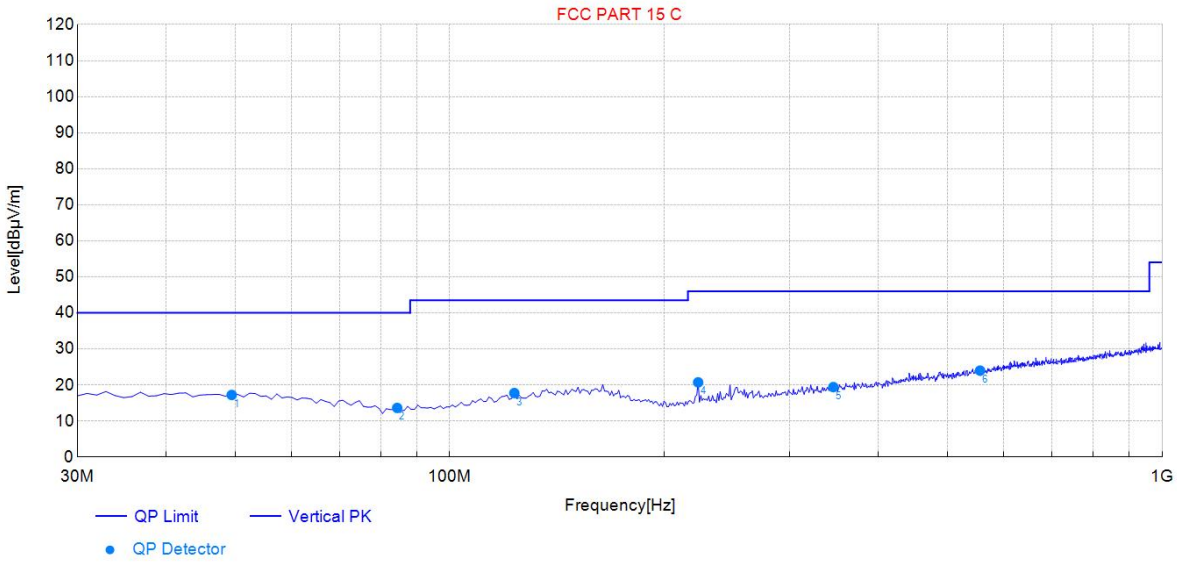


Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.39	14.50	17.78	40.00	22.22	100	66	Horizontal
2	99.91	11.49	14.49	43.50	29.01	100	257	Horizontal
3	178.56	13.71	19.32	43.50	24.18	100	355	Horizontal
4	254.29	13.88	21.87	46.00	24.13	100	193	Horizontal
5	397.03	17.34	20.49	46.00	25.51	100	204	Horizontal
6	669.87	22.73	27.50	46.00	18.50	100	60	Horizontal

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

EUT:	2.4GHz Wi-Fi/BLE Module	Polarity:	Vertical
Model:	EMC6270-E	S/N:	/
Mode:	Transmit by 802.11b at Channel 2412MHz	Voltage:	DC3.3V
Environment:	Temp: 21℃; Humi:51%	Engineer:	Chuang Li

Test Graph

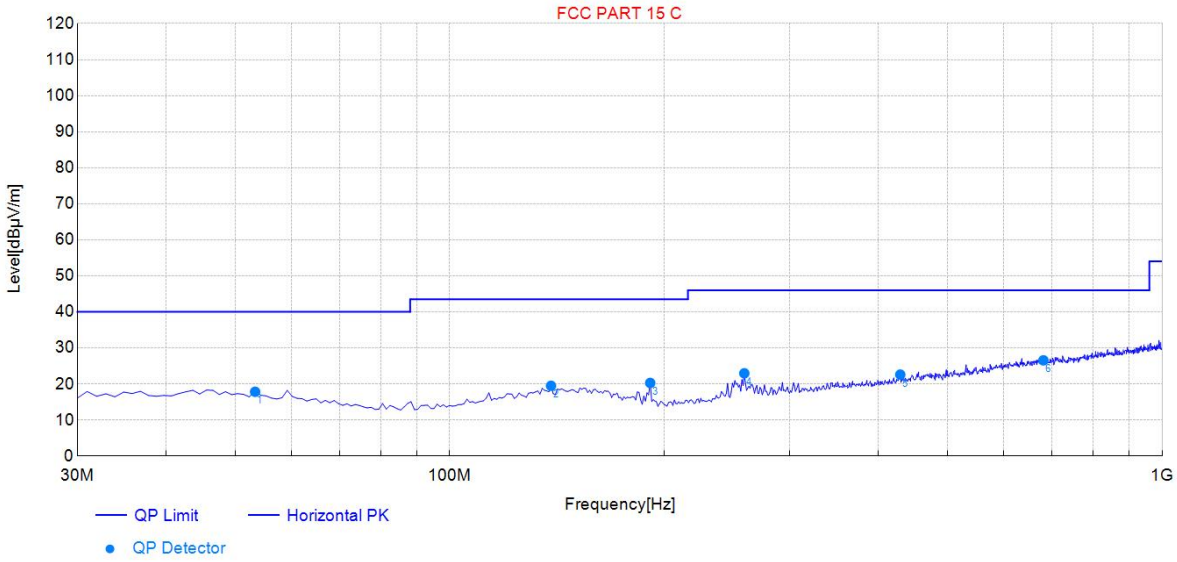


Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.42	14.53	17.24	40.00	22.76	100	5	Vertical
2	84.37	10.61	13.64	40.00	26.36	100	227	Vertical
3	123.21	13.96	17.77	43.50	25.73	100	101	Vertical
4	223.22	12.69	20.73	46.00	25.27	100	234	Vertical
5	345.57	16.23	19.42	46.00	26.58	100	314	Vertical
6	555.30	20.67	23.99	46.00	22.01	100	354	Vertical

30MHz – 1GHz Test Data

EUT:	2.4GHz Wi-Fi/BLE Module	Polarity:	Horizontal
Model:	EMC6270-E	S/N:	/
Mode:	Transmit by 802.11b at Channel 2437MHz	Voltage:	DC3.3V
Environment:	Temp: 21℃; Humi:51%	Engineer:	Chuang Li

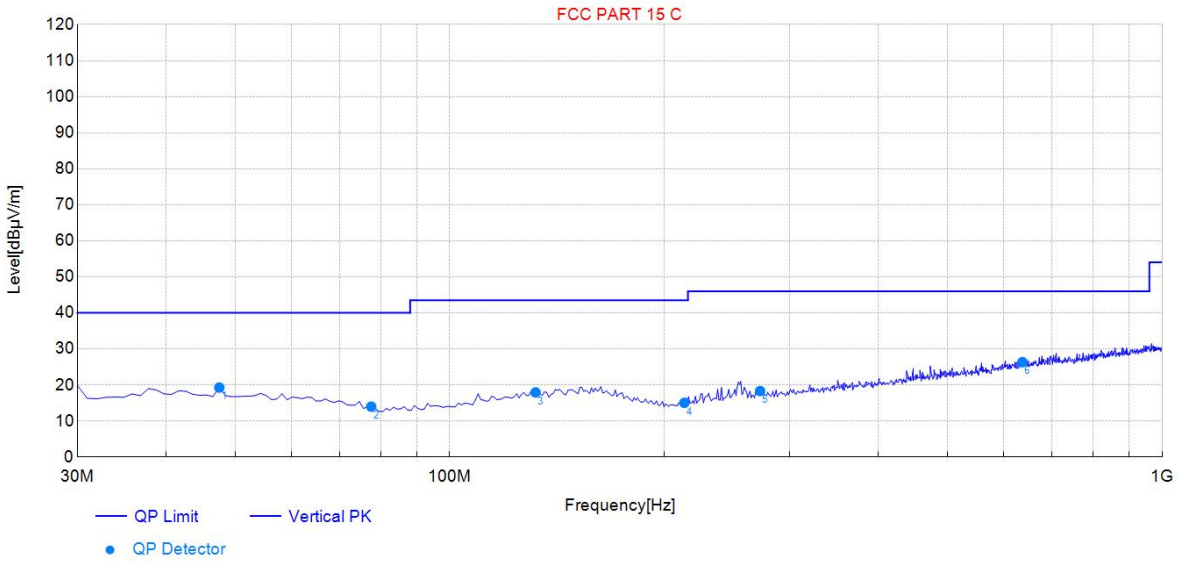
Test Graph



Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.30	14.30	17.84	40.00	22.16	100	169	Horizontal
2	138.75	15.06	19.50	43.50	24.00	100	301	Horizontal
3	191.18	12.59	20.30	43.50	23.20	100	23	Horizontal
4	259.15	14.04	22.97	46.00	23.03	100	193	Horizontal
5	429.07	18.23	22.61	46.00	23.39	100	341	Horizontal
6	681.52	22.97	26.57	46.00	19.43	100	130	Horizontal

EUT:	2.4GHz Wi-Fi/BLE Module	Polarity:	Vertical
Model:	EMC6270-E	S/N:	/
Mode:	Transmit by 802.11b at Channel 2437MHz	Voltage:	DC3.3V
Environment:	Temp: 21℃; Humi:51%	Engineer:	Chuang Li

Test Graph



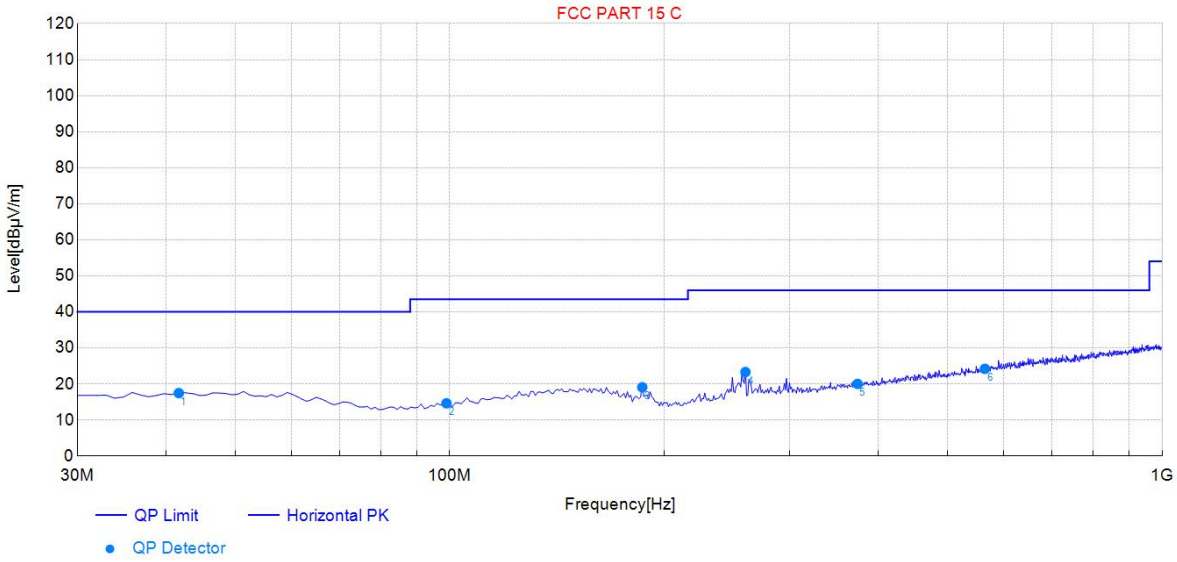
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.48	14.56	19.29	40.00	20.71	100	173	Vertical
2	77.58	10.88	13.99	40.00	26.01	100	22	Vertical
3	131.95	14.53	17.94	43.50	25.56	100	206	Vertical
4	213.51	12.31	15.05	43.50	28.45	100	42	Vertical
5	272.74	14.35	18.33	46.00	27.67	100	0	Vertical
6	636.86	22.24	26.35	46.00	19.65	100	150	Vertical

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

30MHz – 1GHz Test Data

EUT:	2.4GHz Wi-Fi/BLE Module	Polarity:	Horizontal
Model:	EMC6270-E	S/N:	/
Mode:	Transmit by 802.11b at Channel 2462MHz	Voltage:	DC3.3V
Environment:	Temp: 21℃; Humi:51%	Engineer:	Chuang Li

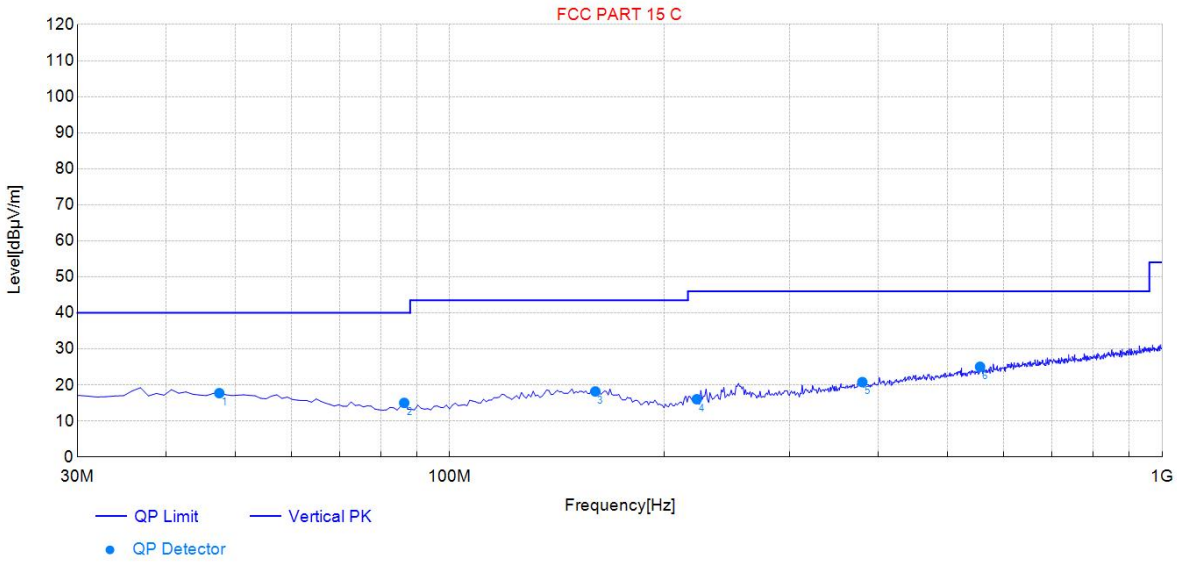
Test Graph



Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.65	14.81	17.48	40.00	22.52	100	115	Horizontal
2	98.94	11.41	14.65	43.50	28.85	100	55	Horizontal
3	186.33	13.02	19.09	43.50	24.41	100	58	Horizontal
4	260.12	14.07	23.32	46.00	22.68	100	177	Horizontal
5	373.72	16.89	20.03	46.00	25.97	100	52	Horizontal
6	564.03	20.86	24.20	46.00	21.80	100	52	Horizontal

EUT:	2.4GHz Wi-Fi/BLE Module	Polarity:	Vertical
Model:	EMC6270-E	S/N:	/
Mode:	Transmit by 802.11b at Channel 2462MHz	Voltage:	DC3.3V
Environment:	Temp: 21℃; Humi:51%	Engineer:	Chuang Li

Test Graph



Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.48	14.56	17.74	40.00	22.26	100	317	Vertical
2	86.32	10.65	15.04	40.00	24.96	100	103	Vertical
3	160.11	15.83	18.20	43.50	25.30	100	232	Vertical
4	222.25	12.64	16.05	46.00	29.95	100	360	Vertical
5	379.55	17.02	20.80	46.00	25.20	100	176	Vertical
6	555.30	20.67	25.06	46.00	20.94	100	1	Vertical

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

7.7. Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1] 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3. Test Setting

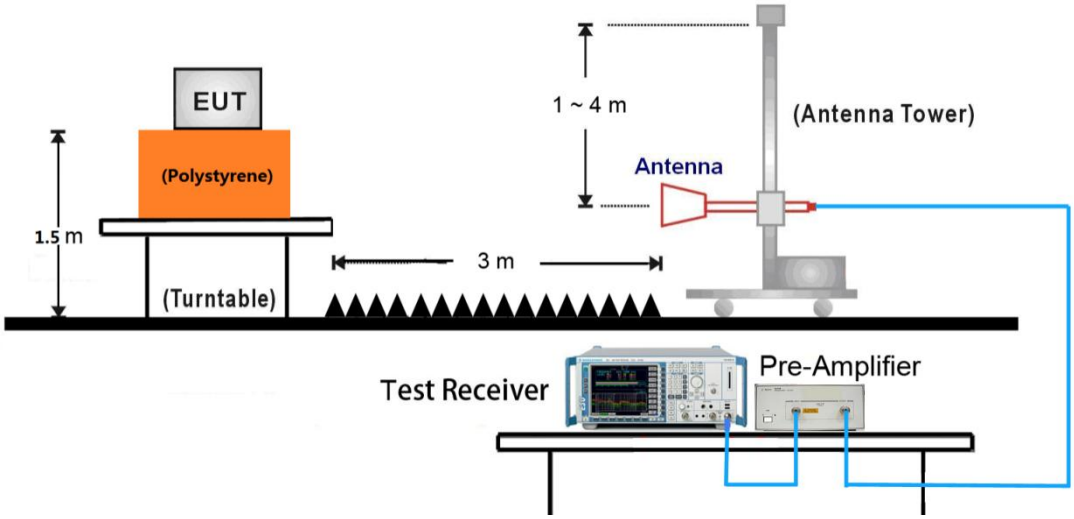
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be ≥ 2 x span / RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.7.4. Test Setup

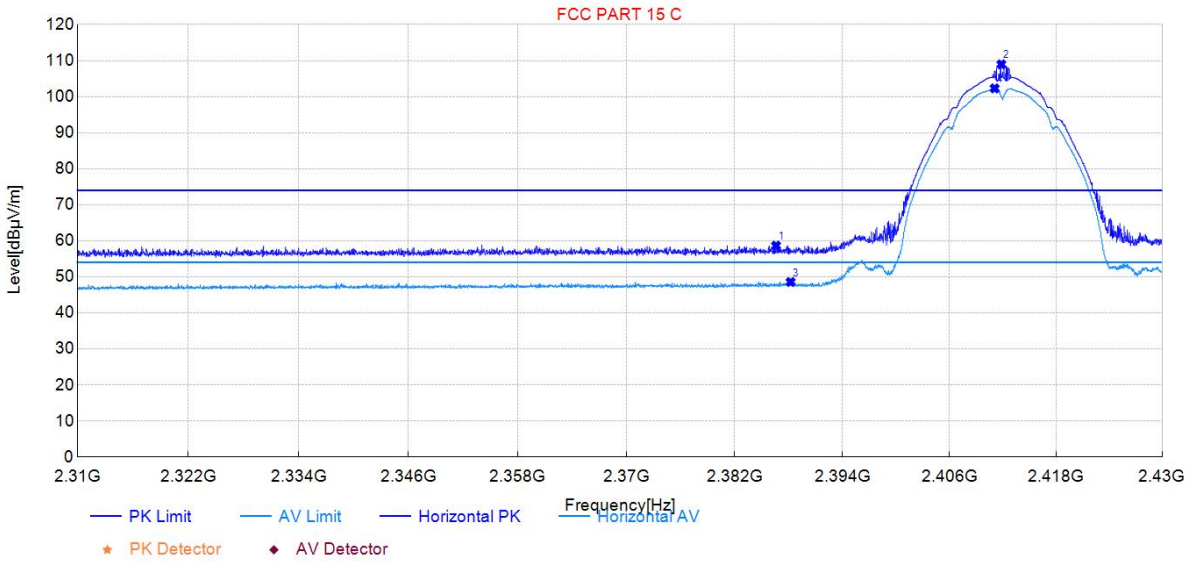


7.7.5. Test Result

802.11b

Test Mode:	802.11b	Test Date:	2024-10-11
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

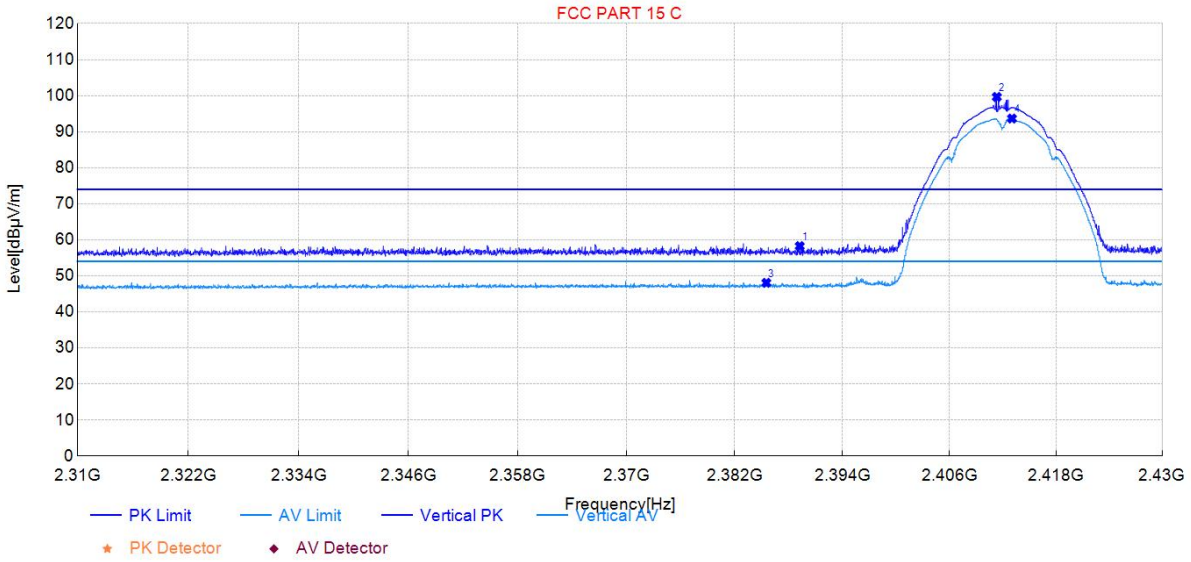
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2386.61	58.66	36.08	74.00	15.34	150	142	Peak	Horizontal
2411.85	108.97	36.18	74.00	-34.97	150	315	Peak	Horizontal
2388.23	48.57	36.09	54.00	5.43	150	293	Average	Horizontal
2411.10	102.31	36.18	54.00	-48.31	150	138	Average	Horizontal

Test Mode:	802.11b	Test Date:	2024-10-11
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

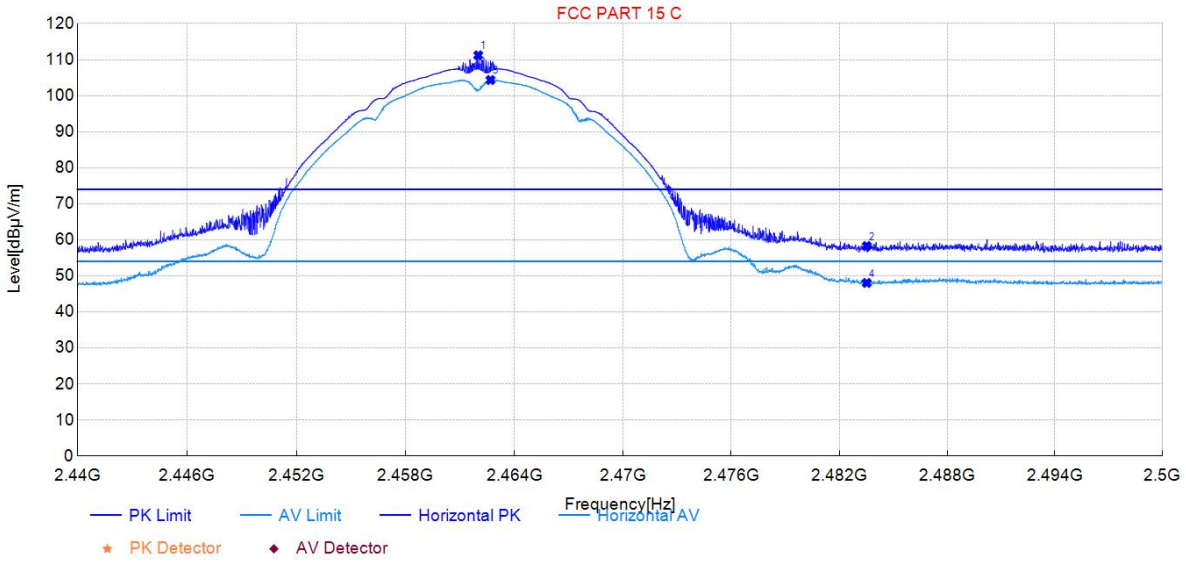
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2389.25	58.25	35.95	74.00	15.75	150	36	Peak	Vertical
2411.34	99.65	36.00	74.00	-25.65	150	99	Peak	Vertical
2385.53	48.07	35.94	54.00	5.93	150	158	Average	Vertical
2413.05	93.65	36.00	54.00	-39.65	150	99	Average	Vertical

Test Mode:	802.11b	Test Date:	2024-10-11
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

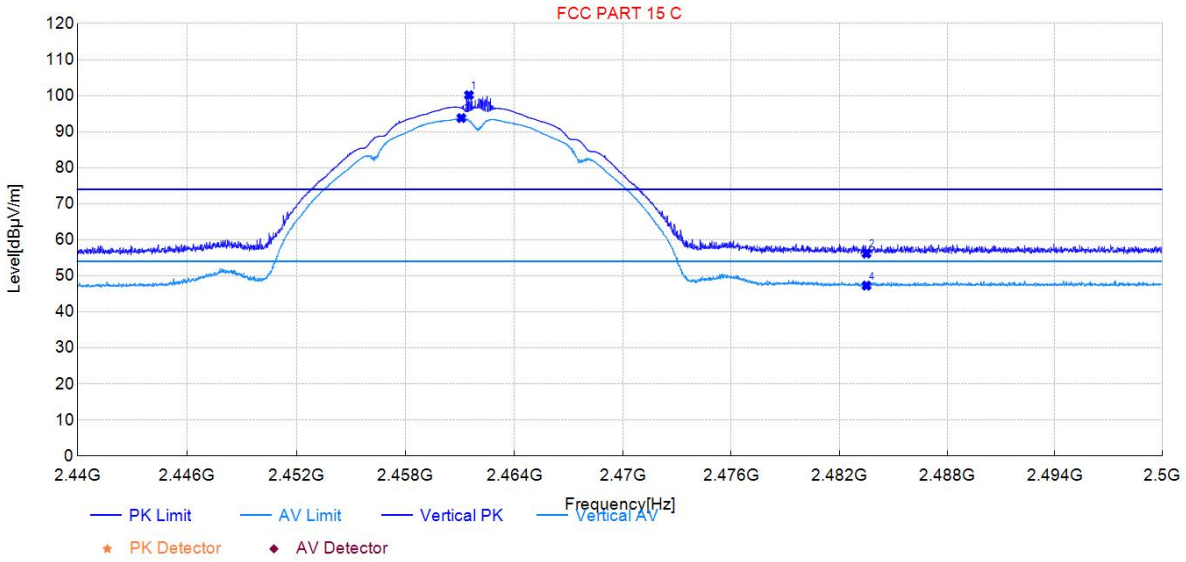
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2462.01	111.20	36.31	74.00	-37.20	150	137	Peak	Horizontal
2483.53	58.29	36.36	74.00	15.71	150	210	Peak	Horizontal
2462.69	104.35	36.31	54.00	-50.35	150	137	Average	Horizontal
2483.53	48.04	36.36	54.00	5.96	150	270	Average	Horizontal

Test Mode:	802.11b	Test Date:	2024-10-11
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

Test Graph

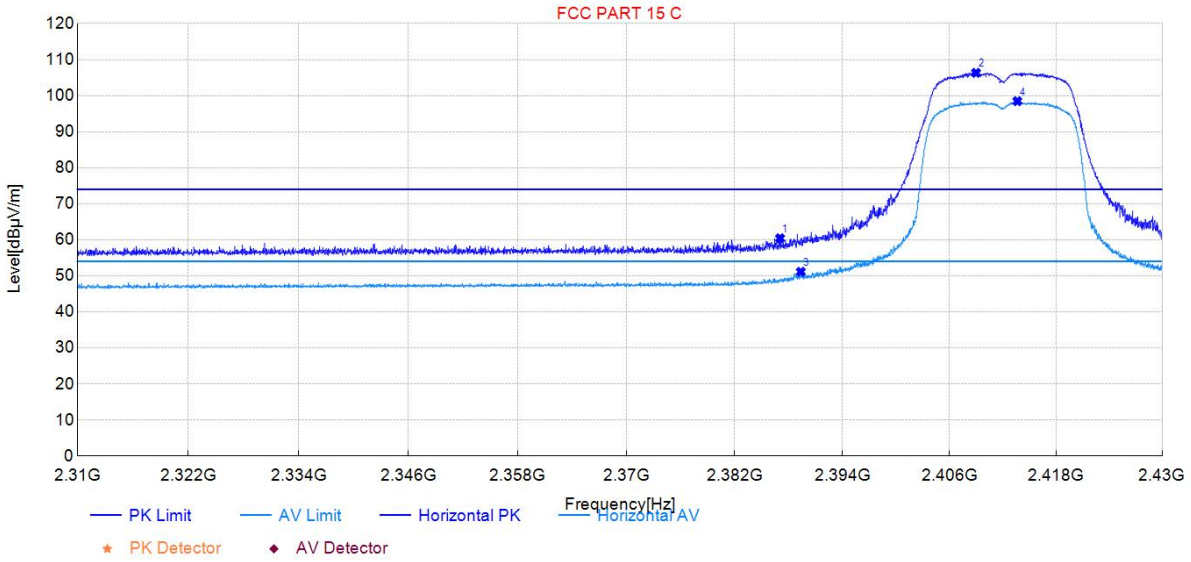


Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2461.50	100.15	36.06	74.00	-26.15	150	74	Peak	Vertical
2483.51	56.18	36.08	74.00	17.82	150	6	Peak	Vertical
2461.08	93.78	36.06	54.00	-39.78	150	74	Average	Vertical
2483.51	47.28	36.08	54.00	6.72	150	45	Average	Vertical

802.11g

Test Mode:	802.11g	Test Date:	2024-10-11
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

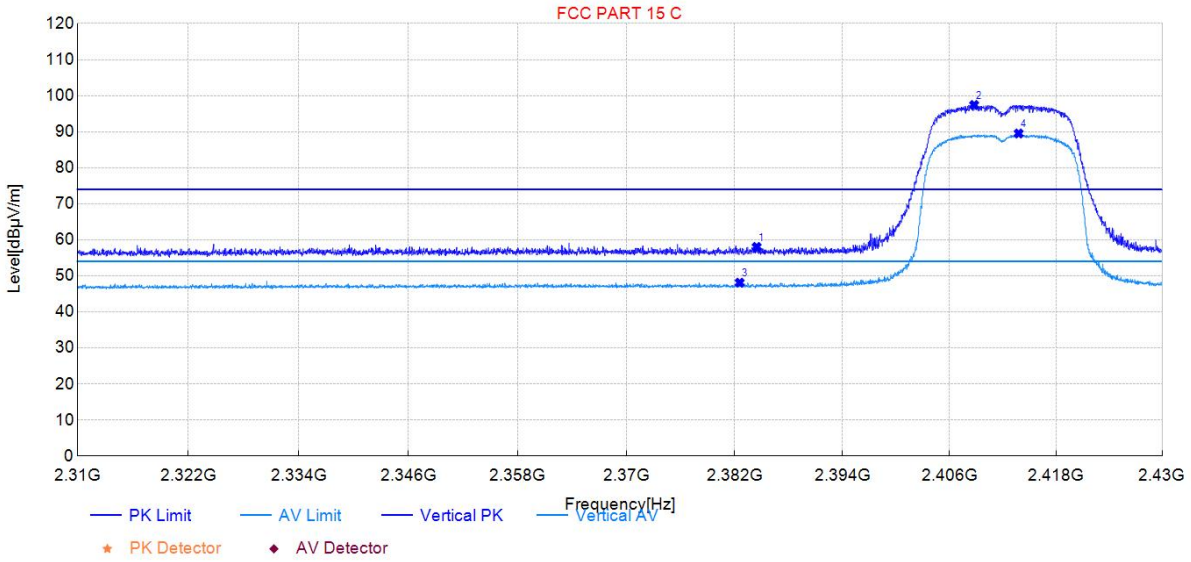
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2387.06	60.42	36.09	74.00	13.58	150	309	Peak	Horizontal
2408.99	106.34	36.17	74.00	-32.34	150	313	Peak	Horizontal
2389.37	51.13	36.09	54.00	2.87	150	309	Average	Horizontal
2413.65	98.48	36.18	54.00	-44.48	150	316	Average	Horizontal

Test Mode:	802.11g	Test Date:	2024-10-11
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

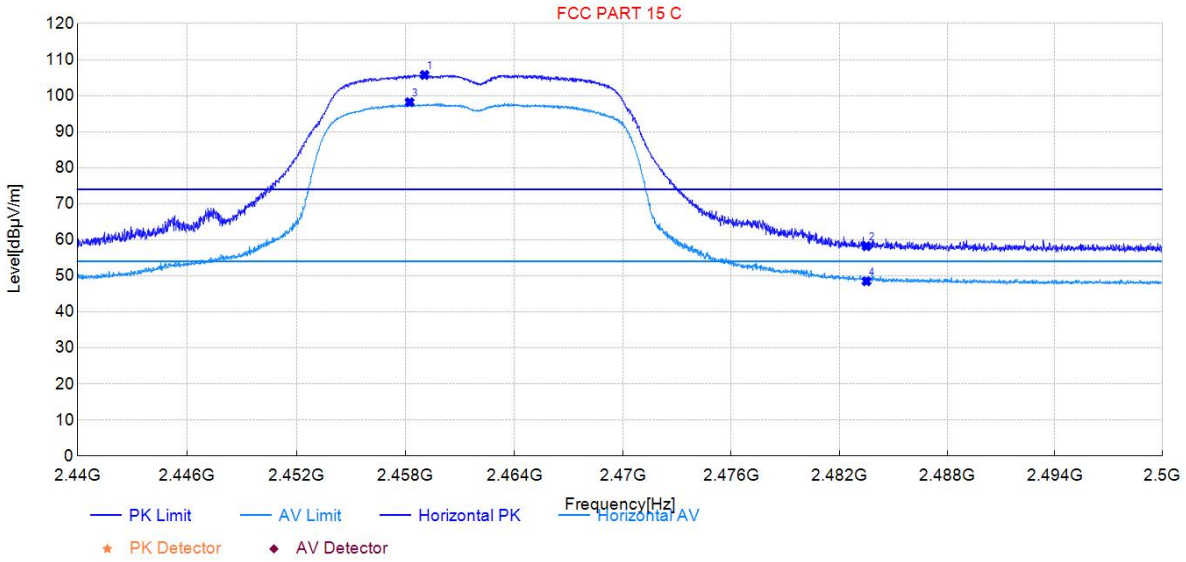
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2384.45	58.02	35.93	74.00	15.98	150	17	Peak	Vertical
2408.78	97.41	36.00	74.00	-23.41	150	99	Peak	Vertical
2382.56	48.10	35.92	54.00	5.90	150	2	Average	Vertical
2413.80	89.51	36.00	54.00	-35.51	150	99	Average	Vertical

Test Mode:	802.11g	Test Date:	2024-10-11
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

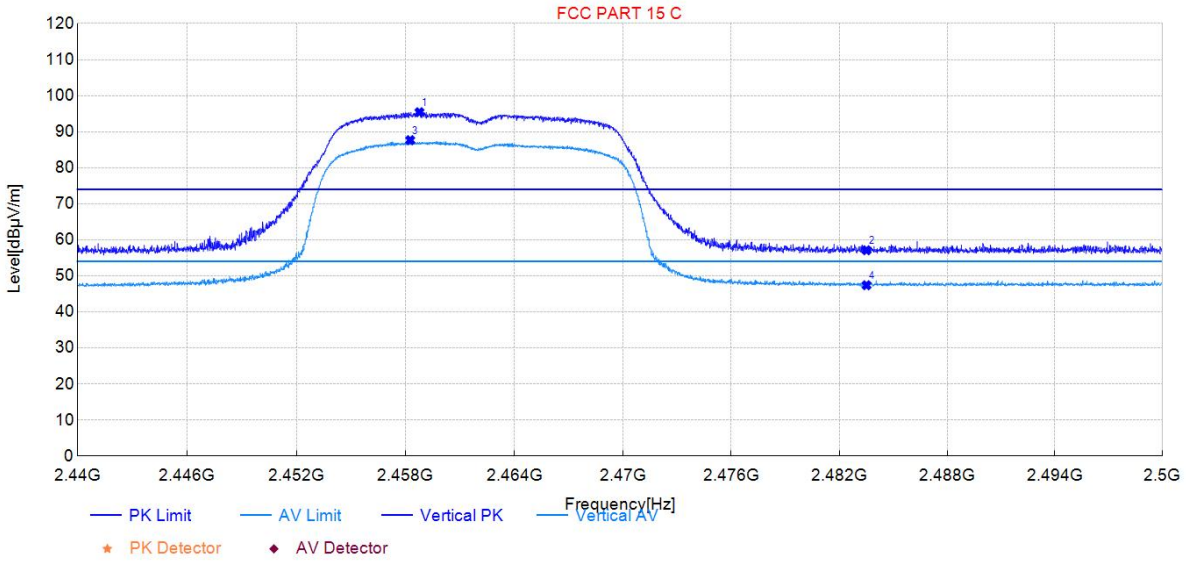
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2459.05	105.75	36.30	74.00	-31.75	150	297	Peak	Horizontal
2483.51	58.22	36.36	74.00	15.78	150	55	Peak	Horizontal
2458.23	98.19	36.30	54.00	-44.19	150	300	Average	Horizontal
2483.51	48.50	36.36	54.00	5.50	150	112	Average	Horizontal

Test Mode:	802.11g	Test Date:	2024-10-11
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

Test Graph

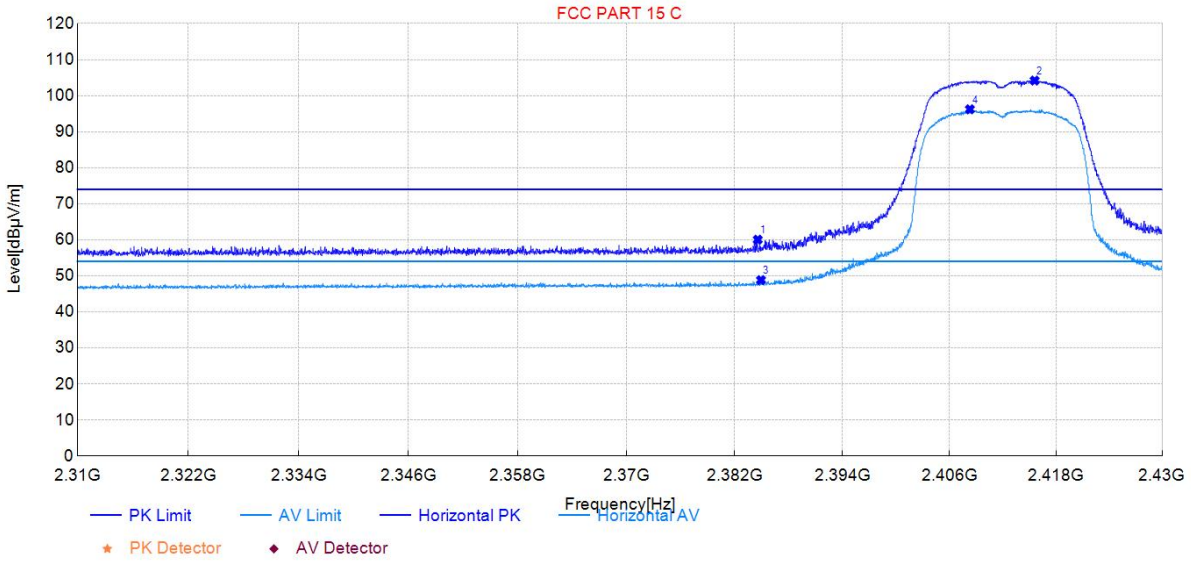


Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2458.77	95.41	36.06	74.00	-21.41	150	75	Peak	Vertical
2483.51	57.11	36.08	74.00	16.89	150	328	Peak	Vertical
2458.26	87.66	36.06	54.00	-33.66	150	75	Average	Vertical
2483.51	47.40	36.08	54.00	6.60	150	31	Average	Vertical

802.11n20SISO

Test Mode:	802.11n20SISO	Test Date:	2024-10-11
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

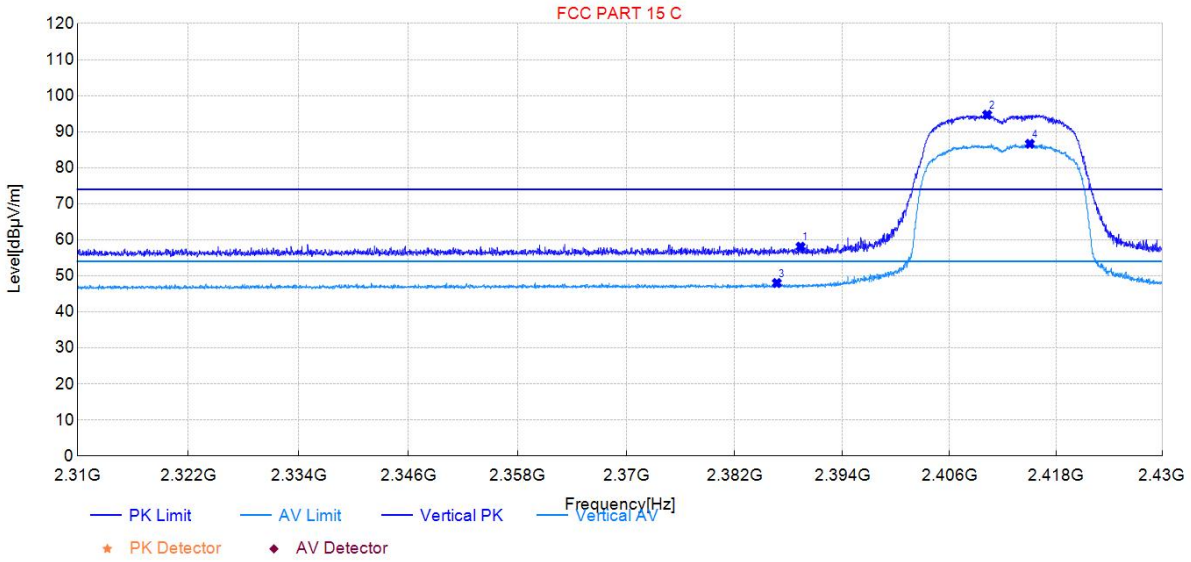
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2384.57	60.04	36.07	74.00	13.96	150	134	Peak	Horizontal
2415.60	104.19	36.19	74.00	-30.19	150	315	Peak	Horizontal
2384.93	48.83	36.07	54.00	5.17	150	14	Average	Horizontal
2408.30	96.23	36.17	54.00	-42.23	150	315	Average	Horizontal

Test Mode:	802.11n20SISO	Test Date:	2024-10-11
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

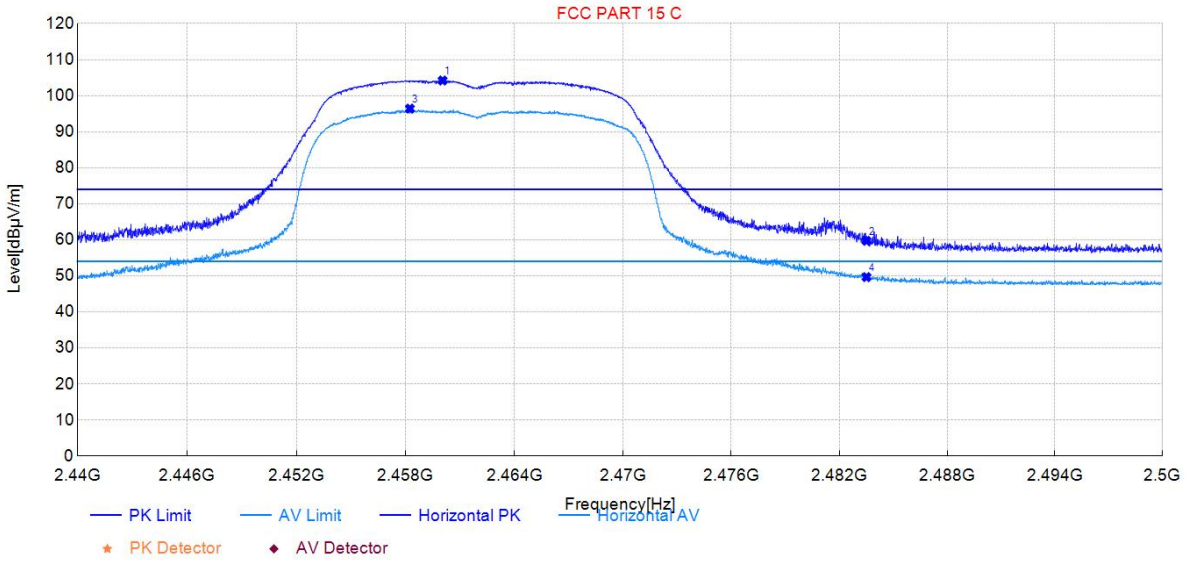
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2389.34	58.09	35.95	74.00	15.91	150	36	Peak	Vertical
2410.26	94.70	36.00	74.00	-20.70	150	103	Peak	Vertical
2386.70	48.01	35.94	54.00	5.99	150	103	Average	Vertical
2415.06	86.64	36.01	54.00	-32.64	150	99	Average	Vertical

Test Mode:	802.11n20SISO	Test Date:	2024-10-11
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

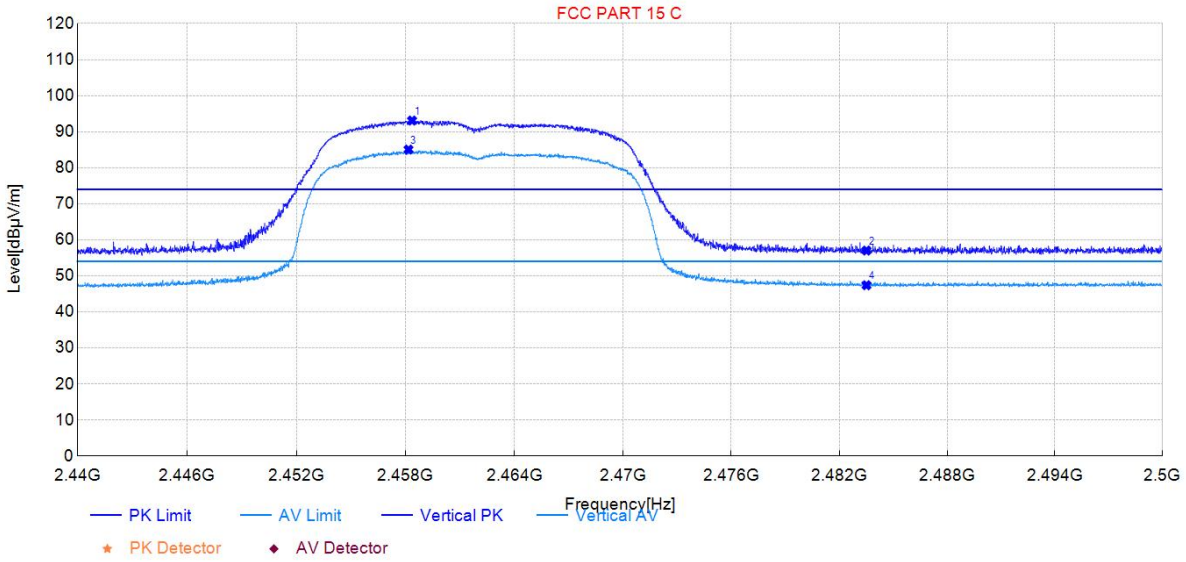
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2460.05	104.21	36.30	74.00	-30.21	150	315	Peak	Horizontal
2483.51	59.72	36.36	74.00	14.28	150	320	Peak	Horizontal
2458.24	96.41	36.30	54.00	-42.41	150	315	Average	Horizontal
2483.51	49.65	36.36	54.00	4.35	150	312	Average	Horizontal

Test Mode:	802.11n20SISO	Test Date:	2024-10-11
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

Test Graph

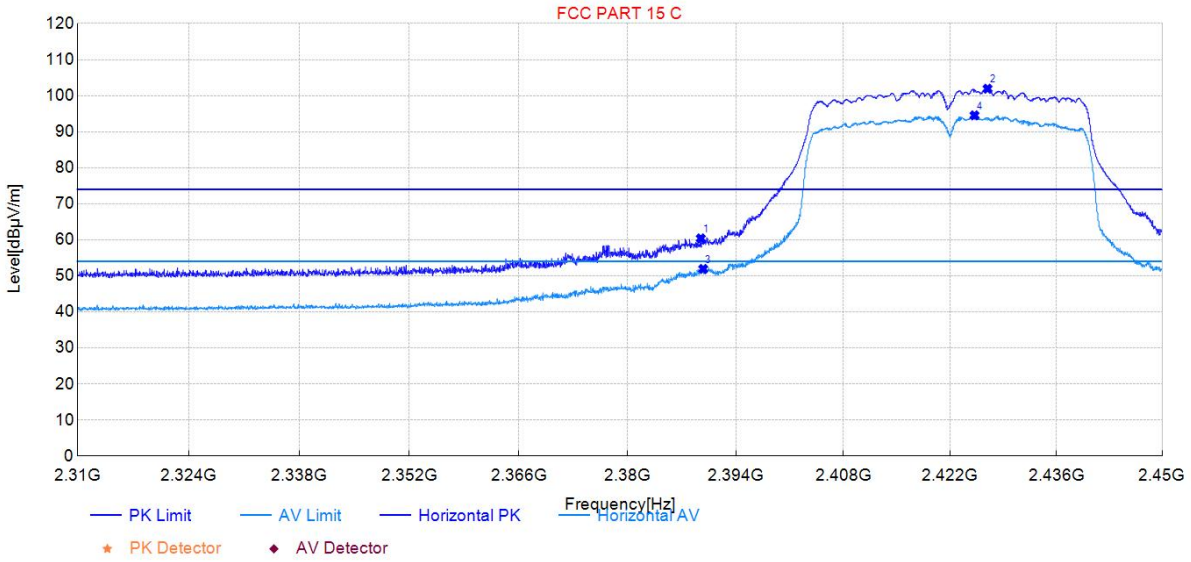


Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2458.36	93.10	36.06	74.00	-19.10	150	75	Peak	Vertical
2483.51	57.02	36.08	74.00	16.98	150	93	Peak	Vertical
2458.17	85.06	36.06	54.00	-31.06	150	75	Average	Vertical
2483.51	47.40	36.08	54.00	6.60	150	345	Average	Vertical

802.11n40SISO

Test Mode:	802.11n40SISO	Test Date:	2024-10-11
Test Channel:	2422	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

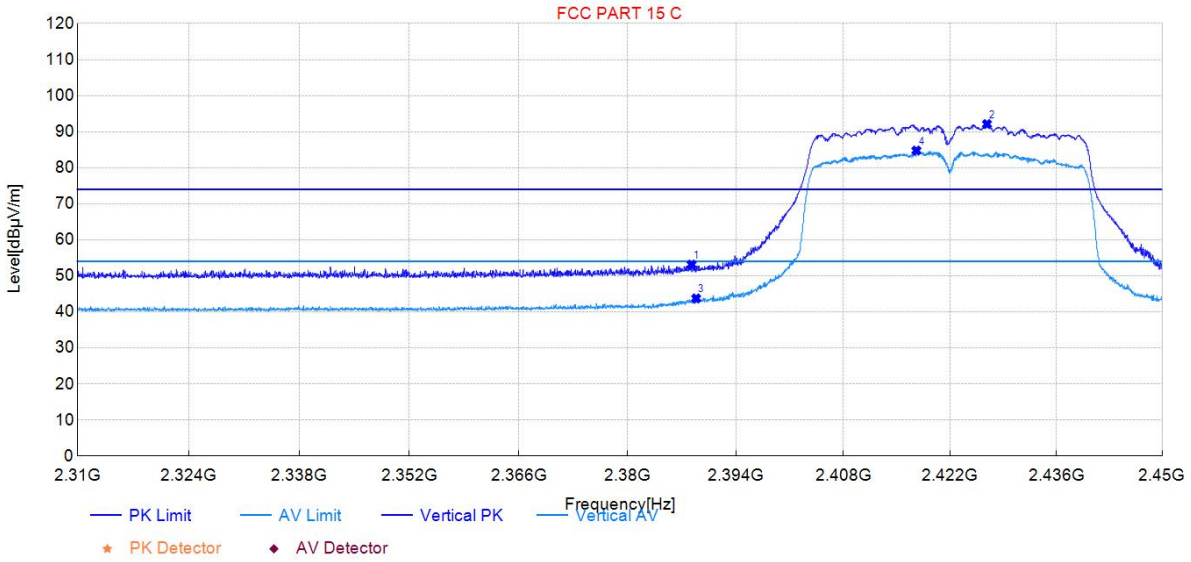
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2389.47	60.39	36.09	74.00	13.61	150	306	Peak	Horizontal
2426.93	101.93	36.21	74.00	-27.93	150	314	Peak	Horizontal
2389.78	51.92	36.10	54.00	2.08	150	310	Average	Horizontal
2425.21	94.53	36.21	54.00	-40.53	150	314	Average	Horizontal

Test Mode:	802.11n40SISO	Test Date:	2024-10-11
Test Channel:	2422	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

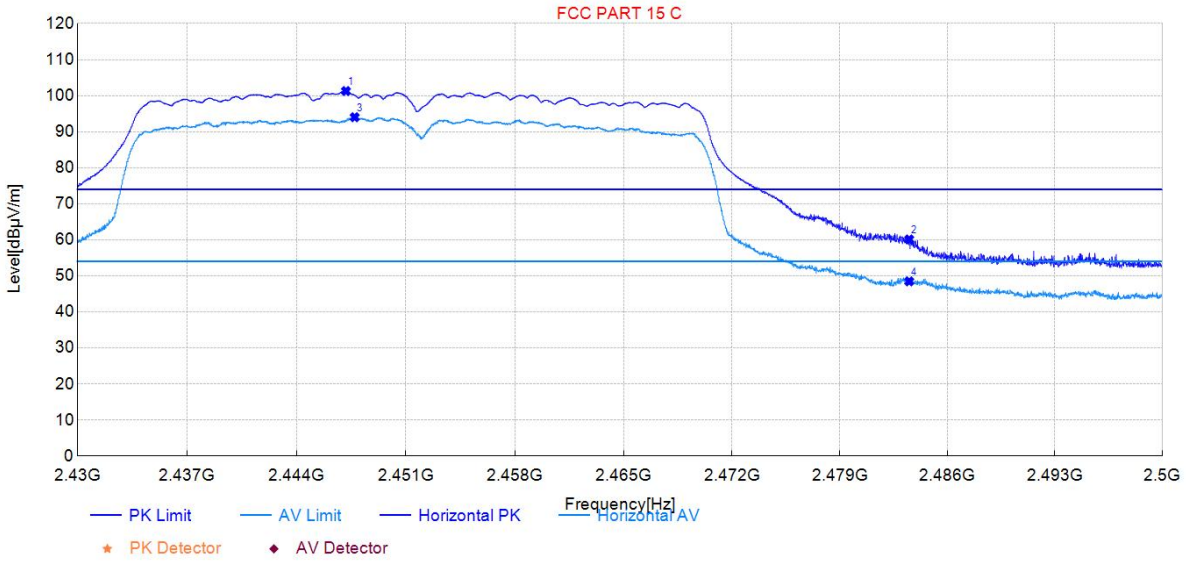
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2388.28	53.12	35.95	74.00	20.88	150	84	Peak	Vertical
2426.86	92.12	36.02	74.00	-18.12	150	100	Peak	Vertical
2388.87	43.74	35.95	54.00	10.26	150	95	Average	Vertical
2417.58	84.77	36.01	54.00	-30.77	150	100	Average	Vertical

Test Mode:	802.11n40SISO	Test Date:	2024-10-11
Test Channel:	2452	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

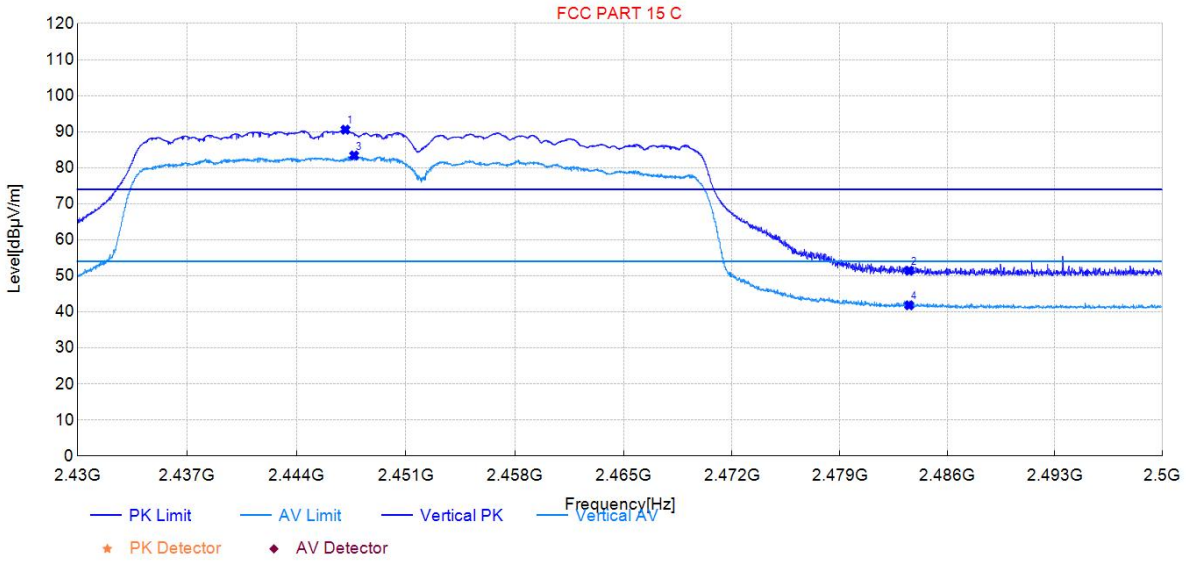
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2447.15	101.28	36.26	74.00	-27.28	150	314	Peak	Horizontal
2483.51	60.11	36.36	74.00	13.89	150	323	Peak	Horizontal
2447.71	94.02	36.26	54.00	-40.02	150	314	Average	Horizontal
2483.51	48.47	36.36	54.00	5.53	150	311	Average	Horizontal

Test Mode:	802.11n40SISO	Test Date:	2024-10-11
Test Channel:	2452	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

Test Graph

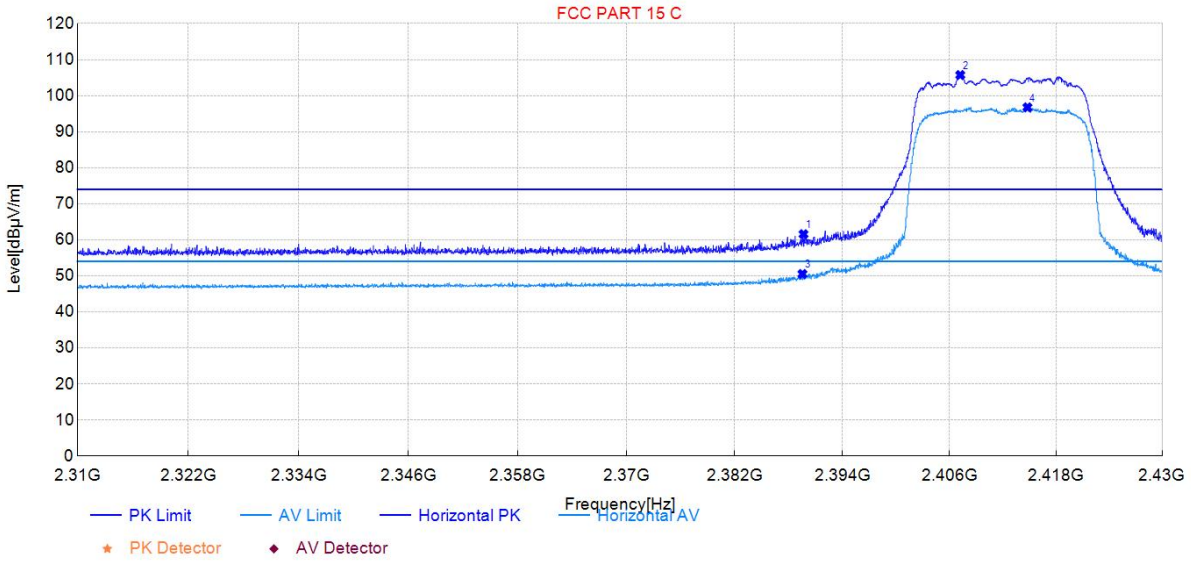


Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2447.12	90.55	36.04	74.00	-16.55	150	103	Peak	Vertical
2483.51	51.42	36.08	74.00	22.58	150	168	Peak	Vertical
2447.68	83.39	36.04	54.00	-29.39	150	103	Average	Vertical
2483.51	41.83	36.08	54.00	12.17	150	360	Average	Vertical

802.11ax20SISO

Test Mode:	802.11ax20SISO	Test Date:	2024-10-11
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

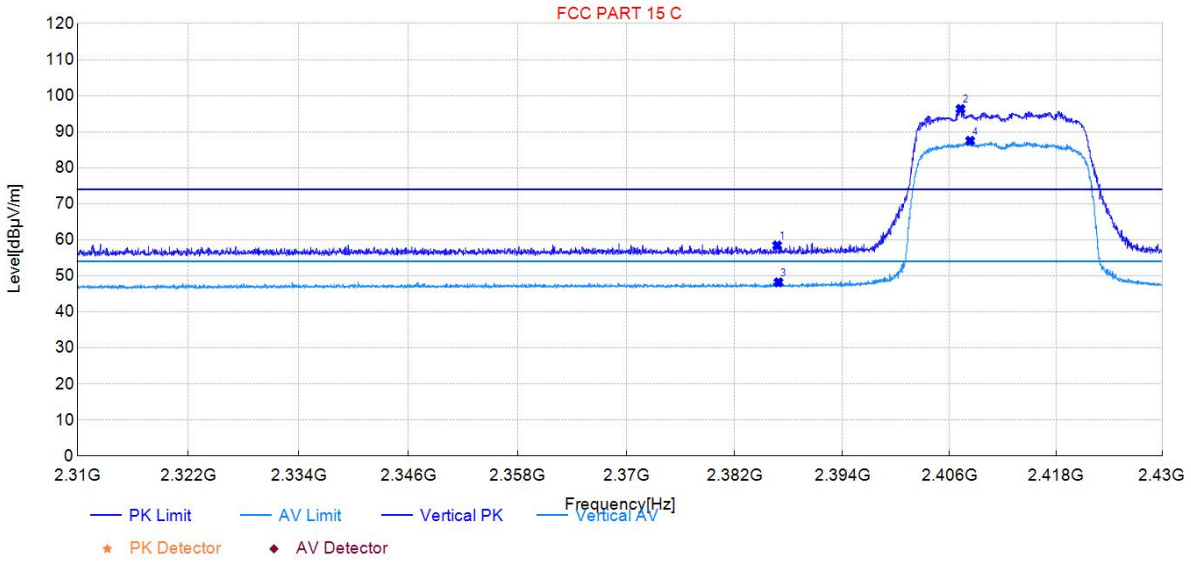
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2389.67	61.57	36.10	74.00	12.43	150	311	Peak	Horizontal
2407.22	105.73	36.17	74.00	-31.73	150	308	Peak	Horizontal
2389.55	50.52	36.09	54.00	3.48	150	311	Average	Horizontal
2414.79	96.76	36.19	54.00	-42.76	150	316	Average	Horizontal

Test Mode:	802.11ax20SISO	Test Date:	2024-10-11
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

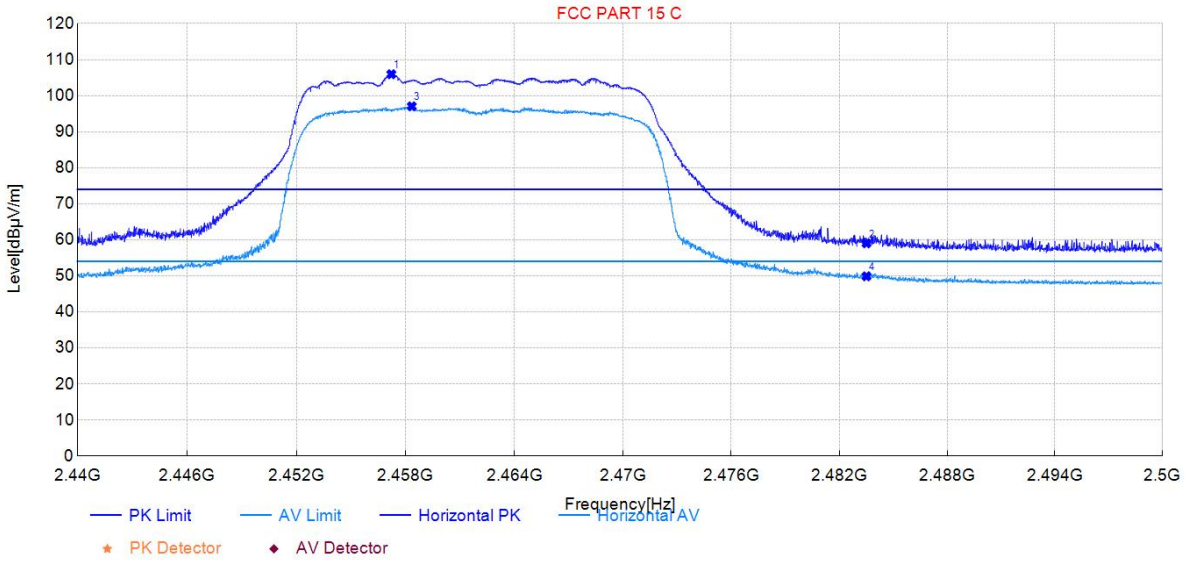
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2386.73	58.44	35.94	74.00	15.56	150	340	Peak	Vertical
2407.25	96.31	36.00	74.00	-22.31	150	99	Peak	Vertical
2386.88	48.20	35.94	54.00	5.80	150	74	Average	Vertical
2408.33	87.49	36.00	54.00	-33.49	150	99	Average	Vertical

Test Mode:	802.11ax20SISO	Test Date:	2024-10-11
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

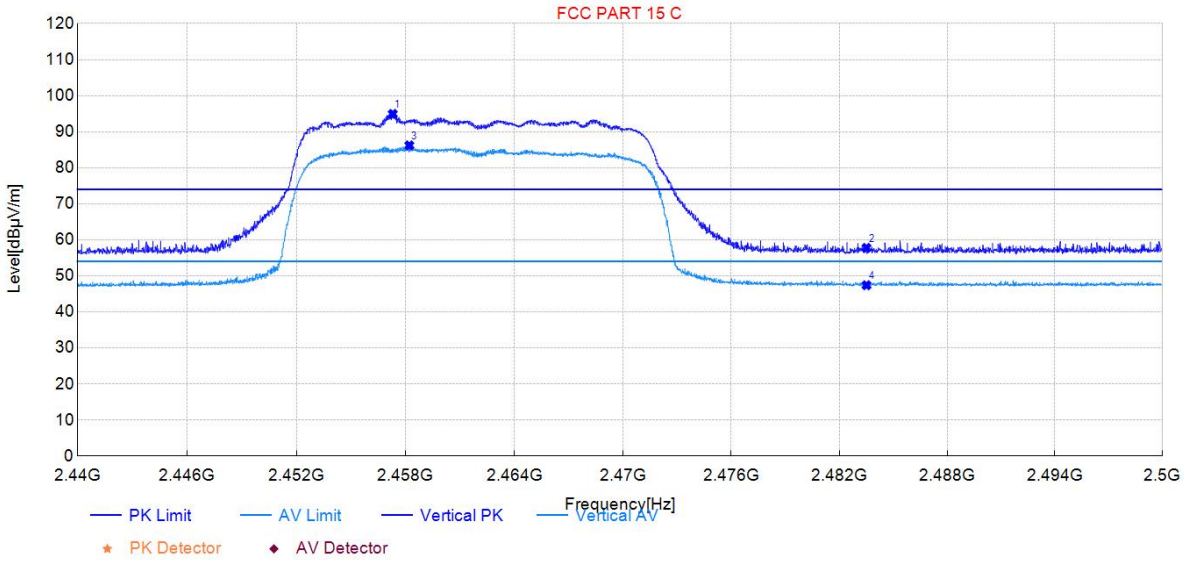
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2457.22	105.95	36.30	74.00	-31.95	150	315	Peak	Horizontal
2483.51	59.02	36.36	74.00	14.98	150	319	Peak	Horizontal
2458.35	97.05	36.30	54.00	-43.05	150	315	Average	Horizontal
2483.51	49.87	36.36	54.00	4.13	150	315	Average	Horizontal

Test Mode:	802.11ax20SISO	Test Date:	2024-10-11
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

Test Graph

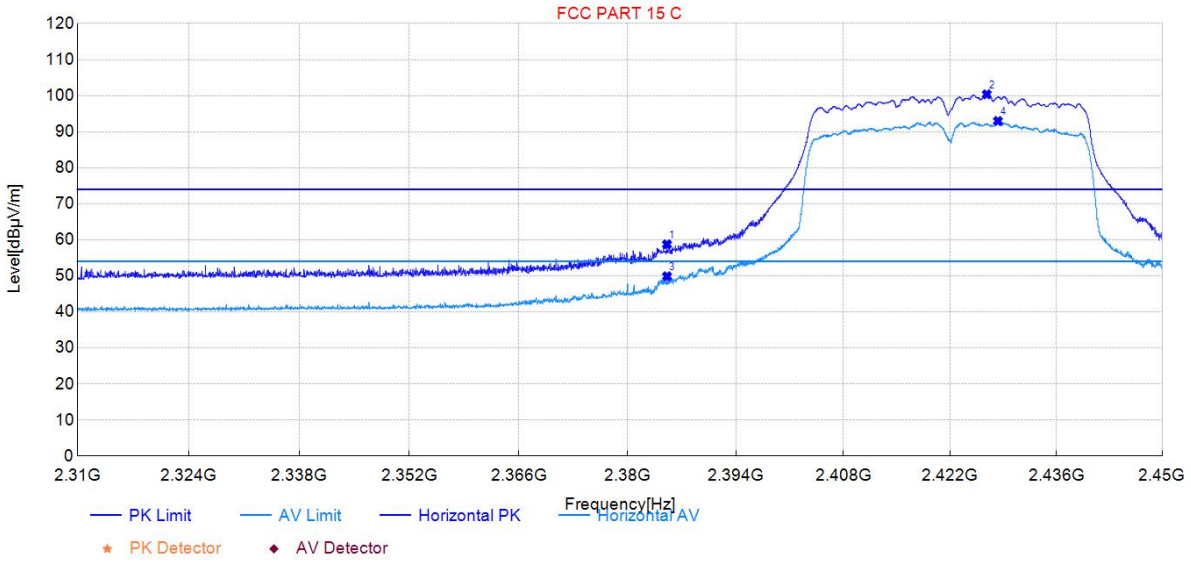


Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2457.30	94.94	36.06	74.00	-20.94	150	76	Peak	Vertical
2483.51	57.77	36.08	74.00	16.23	150	88	Peak	Vertical
2458.21	86.21	36.06	54.00	-32.21	150	76	Average	Vertical
2483.51	47.40	36.08	54.00	6.60	150	73	Average	Vertical

802.11ax40SISO

Test Mode:	802.11ax40SISO	Test Date:	2024-10-11
Test Channel:	2422	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

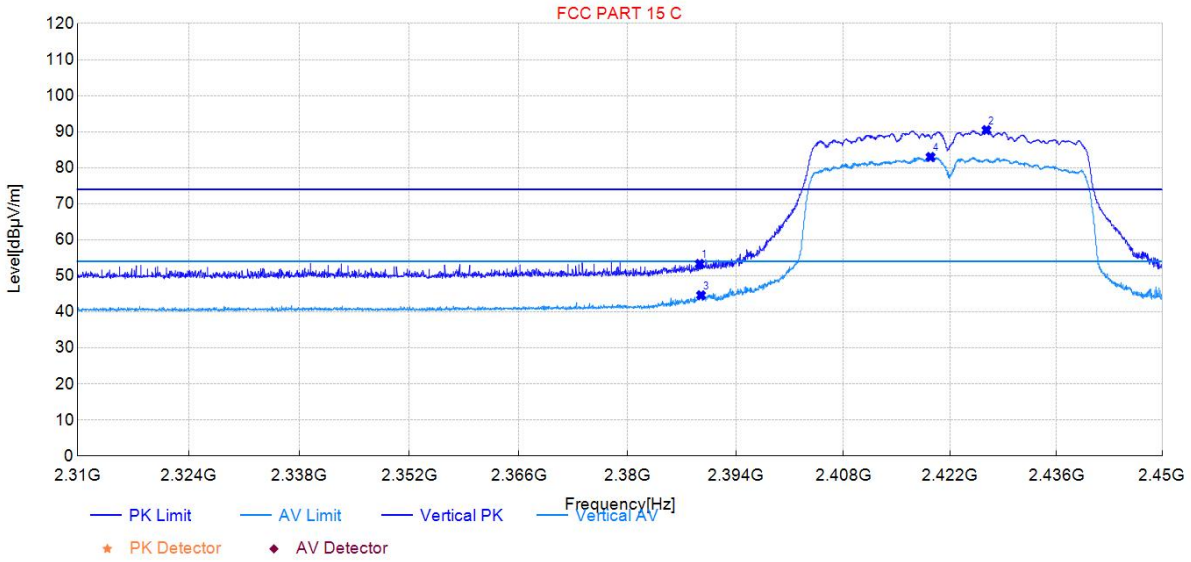
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2385.09	58.75	36.07	74.00	15.25	150	315	Peak	Horizontal
2426.82	100.38	36.21	74.00	-26.38	150	315	Peak	Horizontal
2385.09	49.88	36.07	54.00	4.12	150	315	Average	Horizontal
2428.29	92.97	36.22	54.00	-38.97	150	315	Average	Horizontal

Test Mode:	802.11ax40SISO	Test Date:	2024-10-11
Test Channel:	2422	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

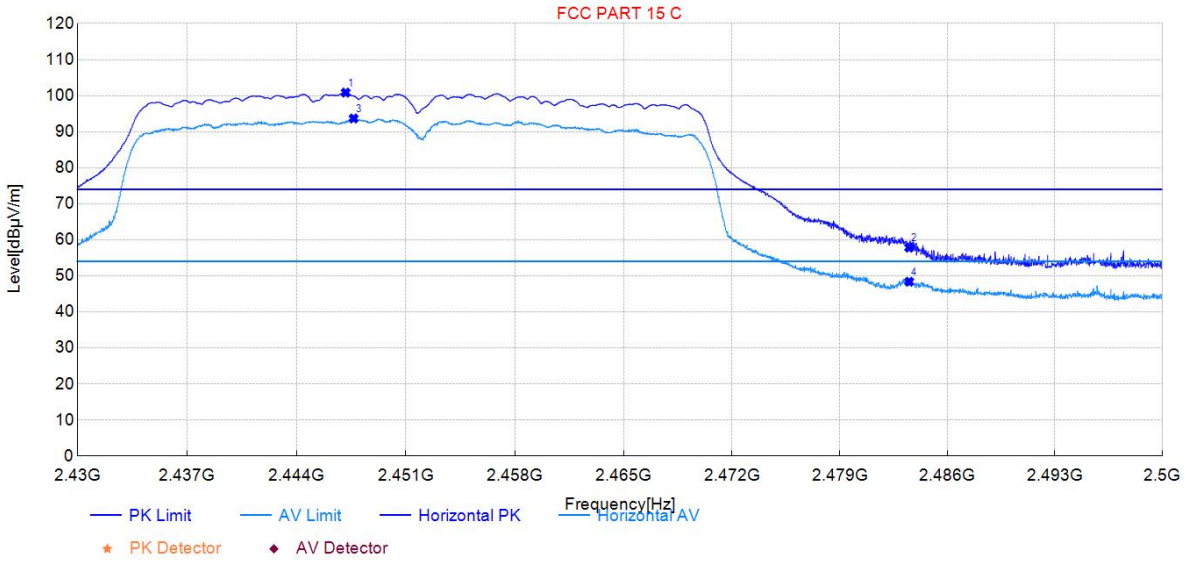
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2389.33	53.32	35.95	74.00	20.68	150	70	Peak	Vertical
2426.79	90.45	36.02	74.00	-16.45	150	103	Peak	Vertical
2389.50	44.62	35.95	54.00	9.38	150	98	Average	Vertical
2419.44	83.00	36.01	54.00	-29.00	150	98	Average	Vertical

Test Mode:	802.11ax40SISO	Test Date:	2024-10-11
Test Channel:	2452	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

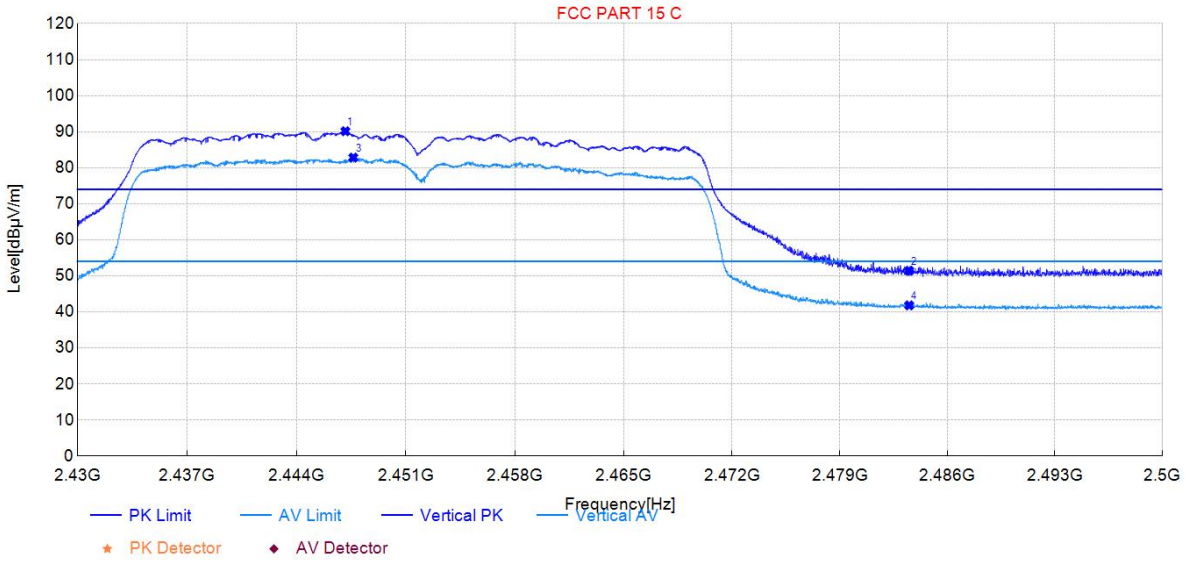
Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2447.14	100.86	36.26	74.00	-26.86	150	315	Peak	Horizontal
2483.51	57.84	36.36	74.00	16.16	150	315	Peak	Horizontal
2447.64	93.67	36.26	54.00	-39.67	150	315	Average	Horizontal
2483.51	48.38	36.36	54.00	5.62	150	319	Average	Horizontal

Test Mode:	802.11ax40SISO	Test Date:	2024-10-11
Test Channel:	2452	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

Test Graph



Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2447.12	90.13	36.04	74.00	-16.13	150	99	Peak	Vertical
2483.51	51.42	36.08	74.00	22.58	150	104	Peak	Vertical
2447.63	82.82	36.04	54.00	-28.82	150	104	Average	Vertical
2483.51	41.81	36.08	54.00	12.19	150	112	Average	Vertical

7.8. AC Conducted Emissions Measurement

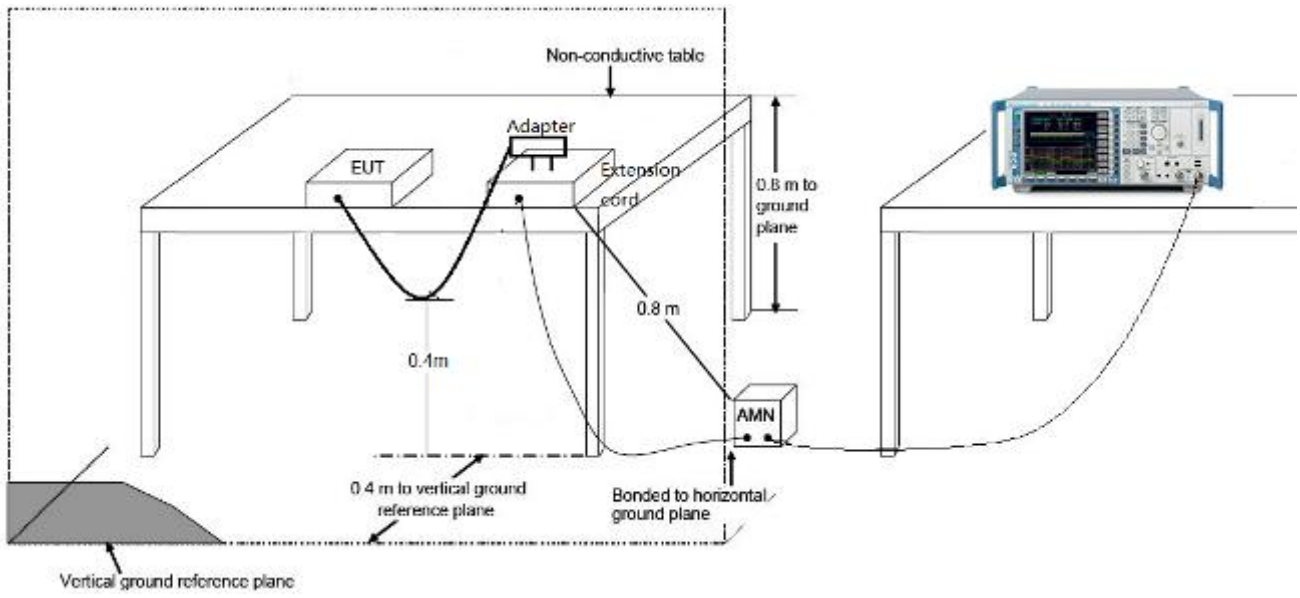
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3. Test Result

Not Applicable . The device is only powered by DC 3.3V.

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **2.4GHz Wi-Fi/BLE Module (Model: EMC6270-E)** is in compliance with Part 15C of the FCC Rules.

The End