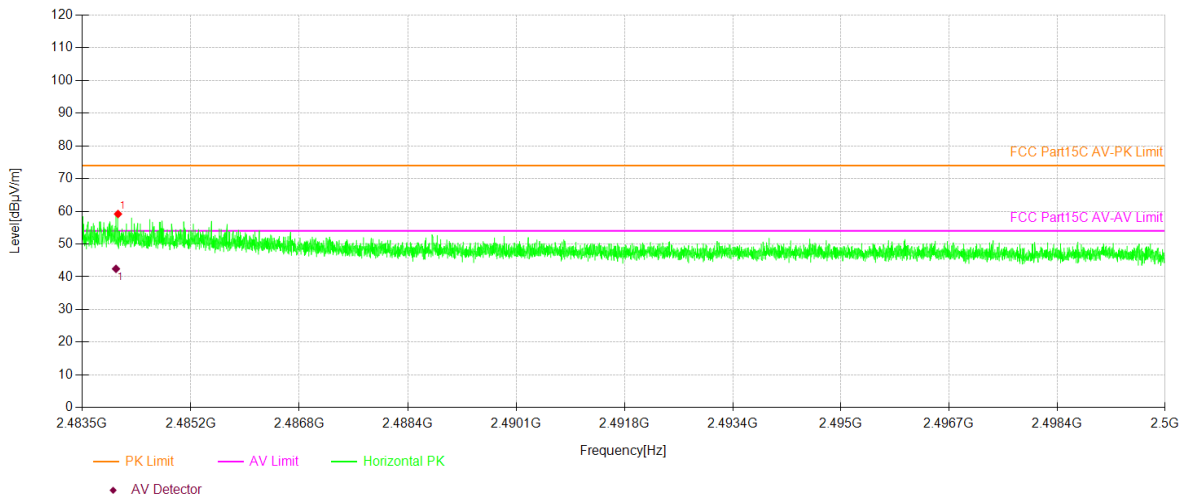


Spurious Emission in Restricted Band 2483.5-2500MHz

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)

☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz ☐ Channel 13: 2472MHz

VBW=3MHz Polarity: H

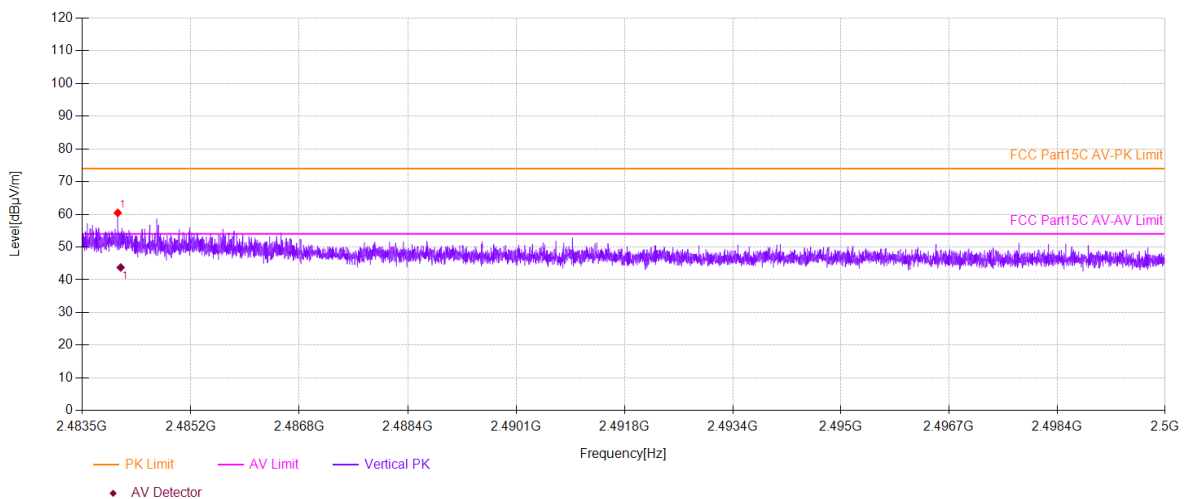


Spurious Emission in Restricted Band 2483.5-2500MHz

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)

☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz ☐ Channel 13: 2472MHz

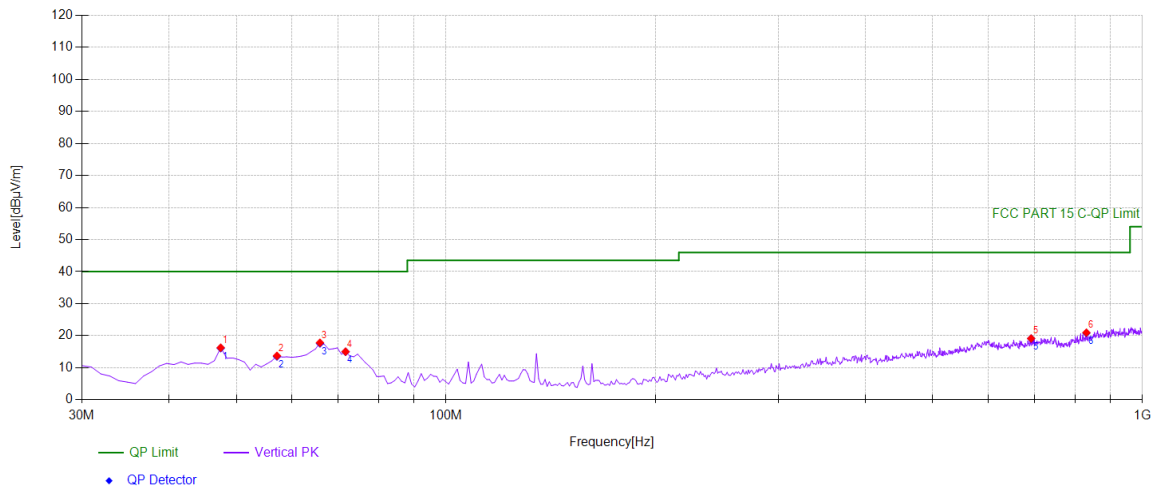
VBW=3MHz Polarity: V



■ Spurious Emission below 1GHz (30MHz to 1GHz)

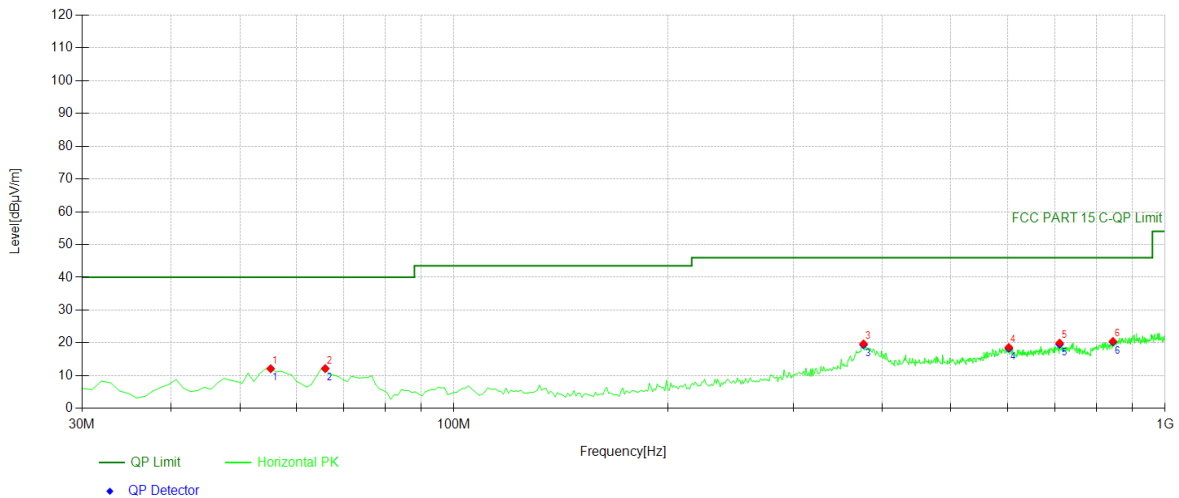
All antenna modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11n20 recorded was report as below:

Mode:	11B 2412
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Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	38.67	-22.39	16.28	PK	40.00	23.72	Vertical
2	57.1872	36.74	-23.00	13.74	PK	40.00	26.26	Vertical
3	65.9259	42.03	-24.21	17.82	PK	40.00	22.18	Vertical
4	71.7518	40.06	-25.03	15.03	PK	40.00	24.97	Vertical
5	692.202	31.37	-12.22	19.15	PK	46.00	26.85	Vertical
6	831.051	31.53	-10.56	20.97	PK	46.00	25.03	Vertical

Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-22.39	16.14	40.00	23.86
2	57.1872	-23.00	13.52	40.00	26.48
3	65.9259	-24.21	17.60	40.00	22.40
4	71.7518	-25.03	14.99	40.00	25.01
5	692.2022	-12.22	19.11	46.00	26.89
6	831.0511	-10.56	20.85	46.00	25.15



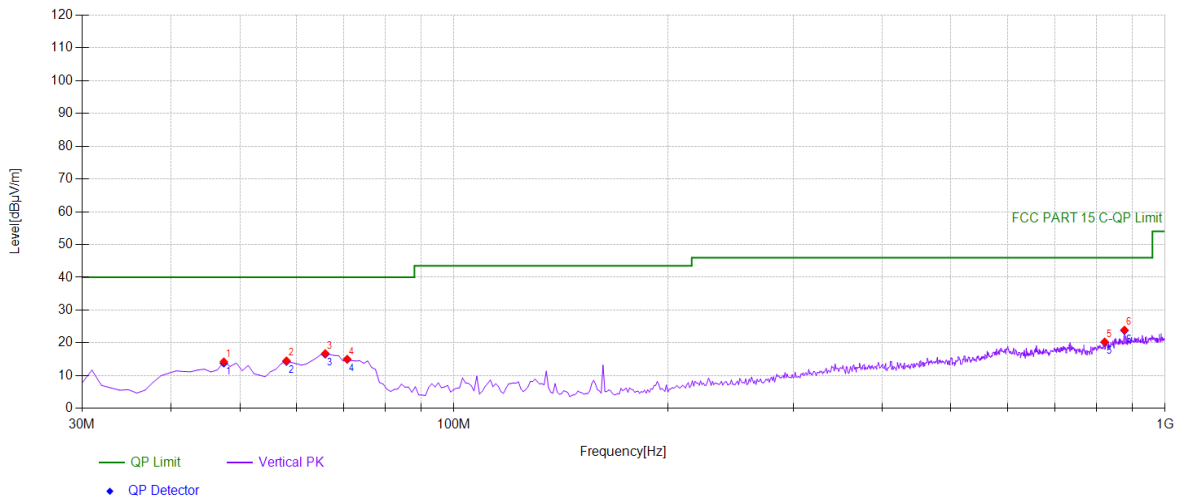
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	55.2452	34.88	-22.74	12.14	PK	40.00	27.86	Horizontal
2	65.9259	36.39	-24.21	12.18	PK	40.00	27.82	Horizontal
3	376.636	37.42	-17.66	19.76	PK	46.00	26.24	Horizontal
4	602.872	30.93	-12.26	18.67	PK	46.00	27.33	Horizontal
5	710.650	31.77	-11.78	19.99	PK	46.00	26.01	Horizontal
6	844.644	30.62	-10.12	20.50	PK	46.00	25.50	Horizontal

Final Data List

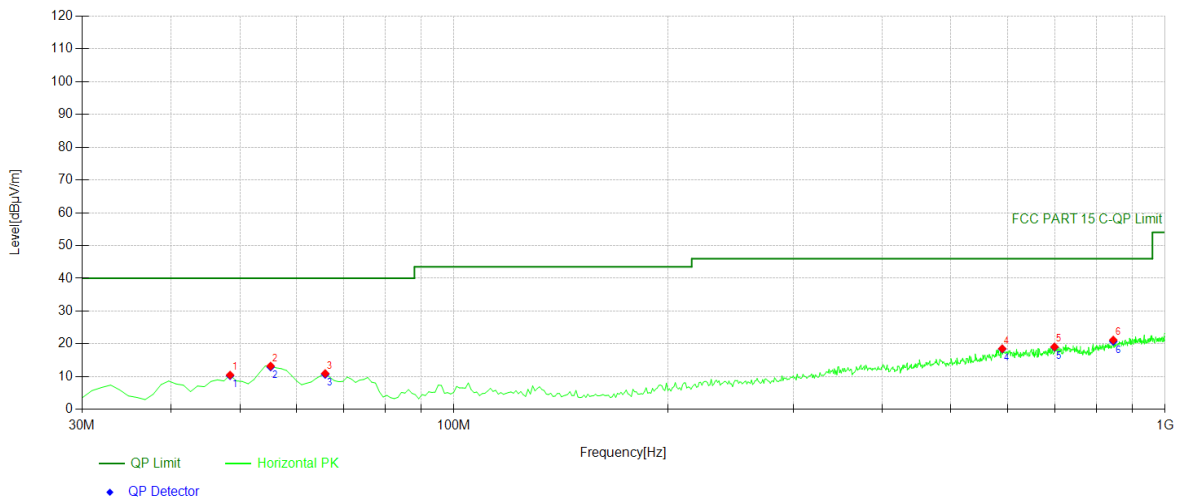
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	55.2452	-22.74	12.13	40.00	27.87
2	65.9259	-24.21	12.17	40.00	27.83
3	376.6366	-17.66	19.43	46.00	26.57
4	602.8729	-12.26	18.34	46.00	27.66
5	710.6507	-11.78	19.57	46.00	26.43
6	844.6446	-10.12	20.26	46.00	25.74

Mode:	11B 2437
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Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	36.65	-22.39	14.26	PK	40.00	25.74	Vertical
2	58.1582	37.71	-23.14	14.57	PK	40.00	25.43	Vertical
3	65.9259	41.01	-24.21	16.80	PK	40.00	23.20	Vertical
4	70.7808	39.91	-24.88	15.03	PK	40.00	24.97	Vertical
5	822.312	30.97	-10.68	20.29	PK	46.00	25.71	Vertical
6	876.686	33.33	-9.39	23.94	PK	46.00	22.06	Vertical

Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-22.39	13.84	40.00	26.16
2	58.1582	-23.14	14.33	40.00	25.67
3	65.9259	-24.21	16.56	40.00	23.44
4	70.7808	-24.88	14.97	40.00	25.03
5	822.3123	-10.68	20.23	46.00	25.77
6	876.6867	-9.39	23.79	46.00	22.21



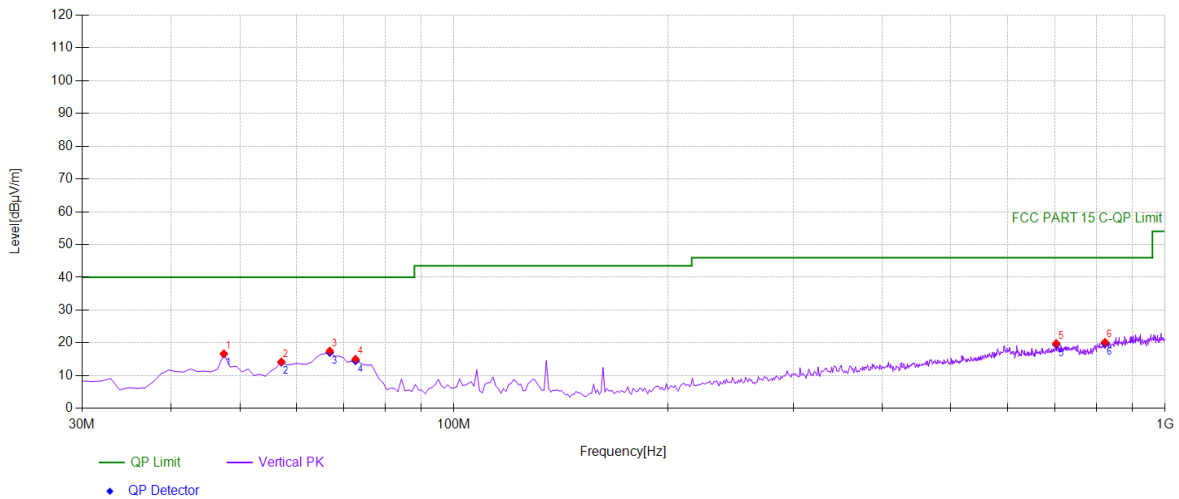
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	48.4484	32.75	-22.24	10.51	PK	40.00	29.49	Horizontal
2	55.2452	36.00	-22.74	13.26	PK	40.00	26.74	Horizontal
3	65.9259	35.19	-24.21	10.98	PK	40.00	29.02	Horizontal
4	590.250	31.23	-12.68	18.55	PK	46.00	27.45	Horizontal
5	698.999	31.03	-11.92	19.11	PK	46.00	26.89	Horizontal
6	845.615	31.27	-10.08	21.19	PK	46.00	24.81	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	48.4484	-22.24	10.30	40.00	29.70
2	55.2452	-22.74	12.97	40.00	27.03
3	65.9259	-24.21	10.69	40.00	29.31
4	590.2503	-12.68	18.43	46.00	27.57
5	698.999	-11.92	18.99	46.00	27.01
6	845.6156	-10.08	20.75	46.00	25.25

Mode:	11B 2462
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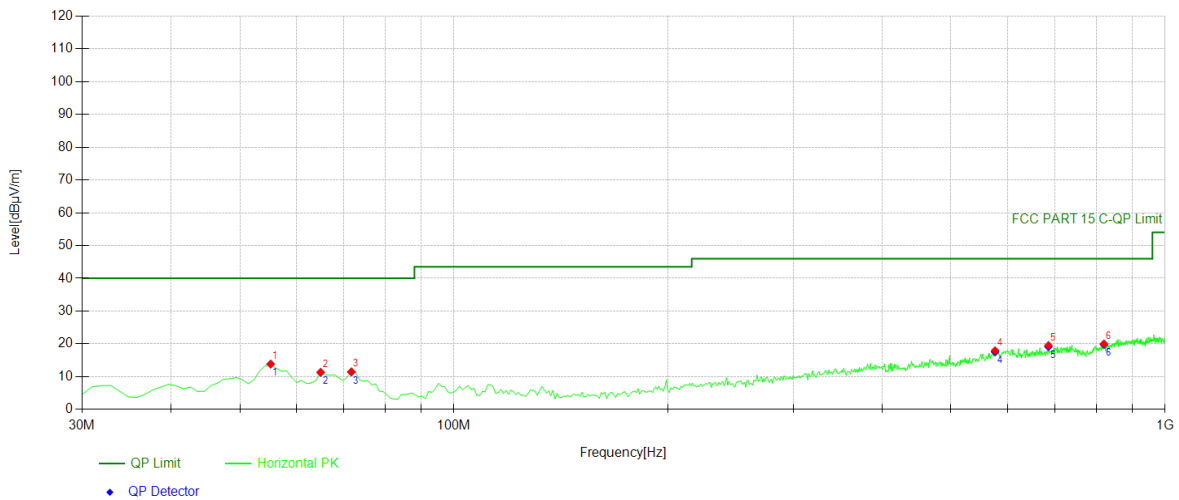


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	39.11	-22.39	16.72	PK	40.00	23.28	Vertical
2	57.1872	37.25	-23.00	14.25	PK	40.00	25.75	Vertical
3	66.8969	41.90	-24.34	17.56	PK	40.00	22.44	Vertical
4	72.7227	40.24	-25.19	15.05	PK	40.00	24.95	Vertical
5	702.882	31.68	-11.84	19.84	PK	46.00	26.16	Vertical
6	823.283	30.89	-10.66	20.23	PK	46.00	25.77	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-22.39	16.63	40.00	23.37
2	57.1872	-23.00	14.08	40.00	25.92
3	66.8969	-24.34	17.07	40.00	22.93
4	72.7227	-25.19	14.56	40.00	25.44
5	702.8829	-11.84	19.53	46.00	26.47
6	823.2833	-10.66	19.83	46.00	26.17



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	55.2452	36.59	-22.74	13.85	PK	40.00	26.15	Horizontal
2	64.955	35.45	-24.07	11.38	PK	40.00	28.62	Horizontal
3	71.7518	36.54	-25.03	11.51	PK	40.00	28.49	Horizontal
4	576.656	31.31	-13.34	17.97	PK	46.00	28.03	Horizontal
5	685.405	32.00	-12.45	19.55	PK	46.00	26.45	Horizontal
6	820.370	30.73	-10.70	20.03	PK	46.00	25.97	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	55.2452	-22.74	13.84	40.00	26.16
2	64.955	-24.07	11.29	40.00	28.71
3	71.7518	-25.03	11.42	40.00	28.58
4	576.6567	-13.34	17.56	46.00	28.44
5	685.4054	-12.45	19.14	46.00	26.86
6	820.3704	-10.70	19.80	46.00	26.20

FPC Antenna 1:

- Spurious Emission Above 1GHz(1GHz to 25GHz)
- All antenna modes 2.4G 802.11b/g/n have been tested, and the worst result recorded was report as below:

Test mode: 802.11 b Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8386.87	V	57.56	41.17	74.00	54.00	16.44	12.83
9862.5	V	62.00	41.73	74.00	54.00	12.00	12.27
13715.6	V	64.73	43.54	74.00	54.00	9.27	10.46
8415	H	56.54	40.36	74.00	54.00	17.46	13.64
9905.62	H	62.05	42.92	74.00	54.00	11.95	11.08
13771.8	H	64.76	43.12	74.00	54.00	9.24	10.88

Test mode: 802.11 b Frequency: Channel 6: 2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8199.37	V	57.01	39.78	74.00	54.00	16.99	14.22
11330.6	V	62.08	43.97	74.00	54.00	11.92	10.03
14737.5	V	64.31	45.10	74.00	54.00	9.69	8.90
8094.37	H	56.43	40.11	74.00	54.00	17.57	13.89
9905.62	H	62.28	42.88	74.00	54.00	11.72	11.12
14310	H	64.18	47.20	74.00	54.00	9.82	6.80

Test mode: 802.11 b Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8270.62	V	56.07	40.06	74.00	54.00	17.93	13.94
9941.25	V	61.65	42.66	74.00	54.00	12.35	11.34
13698.7	V	64.49	44.54	74.00	54.00	9.51	9.46
7710	H	55.90	39.38	74.00	54.00	18.10	14.62
9990	H	61.88	42.39	74.00	54.00	12.12	11.61
13706.2	H	65.61	43.64	74.00	54.00	8.39	10.36

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Corrected Reading= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) Margin = Limit - Corrected Reading
 - (5)The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz
All modes 2.4G 802.11b/g/n have been tested, and the worst result recorded was report as below:

Test mode: 802.11N20 Frequency: Channel 1: 2412MHz

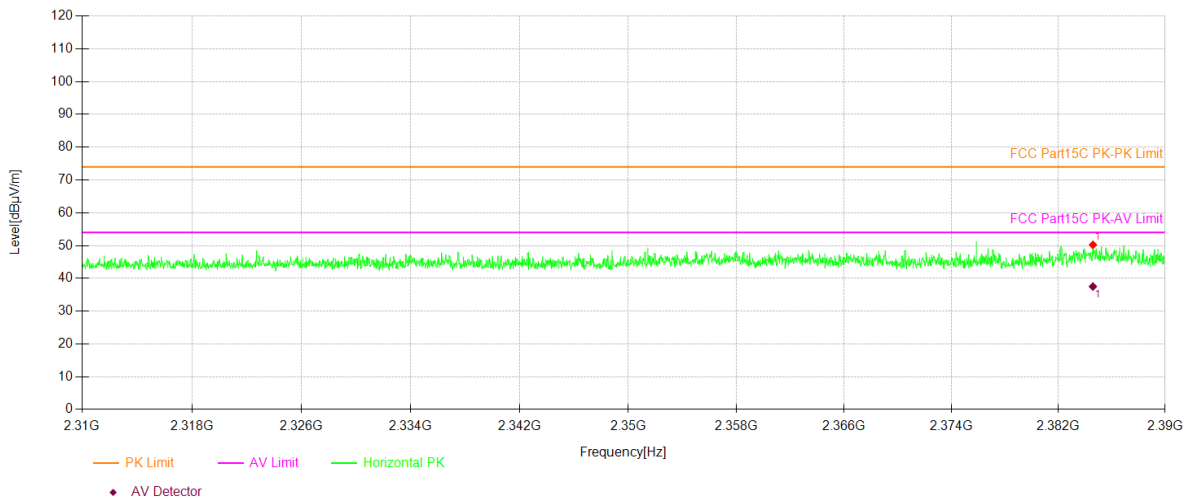
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2384.58	H	50.22	74.00	37.50	54.00
2384.90	V	50.61	74.00	37.61	54.00

Test mode: 802.11N20 Frequency: Channel 11: 2462MHz

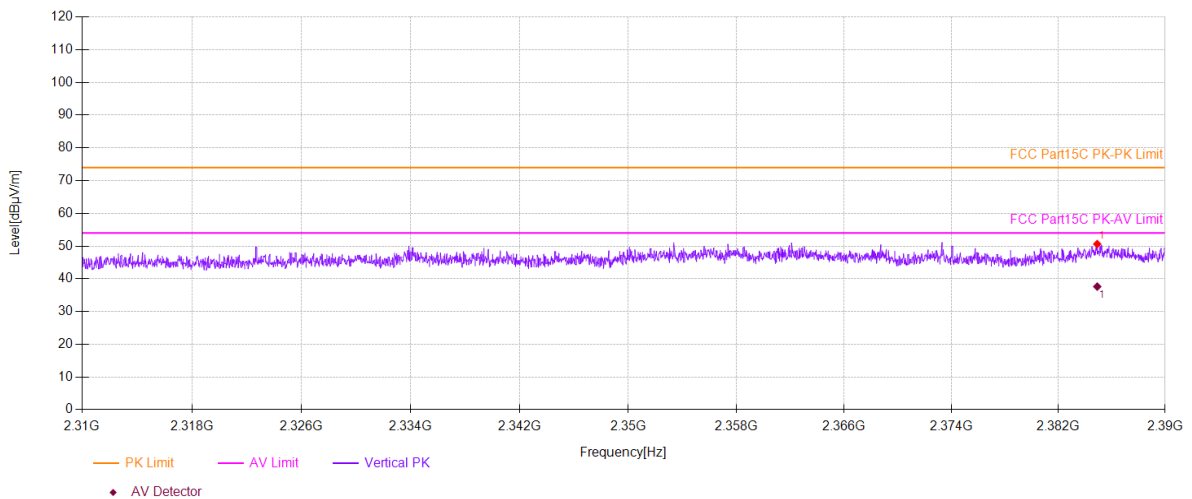
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2483.52	H	51.22	74.00	38.62	54.00
2483.58	V	50.19	74.00	38.42	54.00

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Corrected Reading= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) Margin = Limit - Corrected Reading
 - (5) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Spurious Emission in Restricted Band 2310-2390MHz			
Test Model	☐ 802.11b	☐ 802.11g	☒ 802.11n(HT20)
	☒ Channel 1:2412MHz	☐ Channel 3: 2422MHz	☐ 802.11n(HT40)
	VBW=3MHz		Polarity: H



Spurious Emission in Restricted Band 2310-2390MHz			
Test Model	☐ 802.11b	☐ 802.11g	☒ 802.11n(HT20)
	☒ Channel 1:2412MHz	☐ Channel 3: 2422MHz	☐ 802.11n(HT40)
	VBW=3MHz		Polarity: V

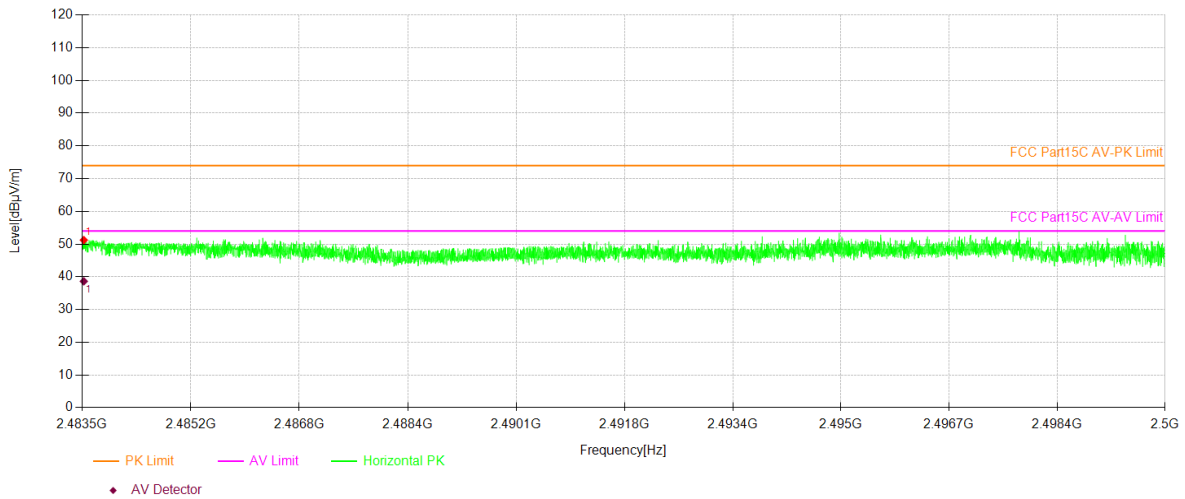


Spurious Emission in Restricted Band 2483.5-2500MHz

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)

☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz ☐ Channel 13: 2484MHz

VBW=3MHz Polarity: H

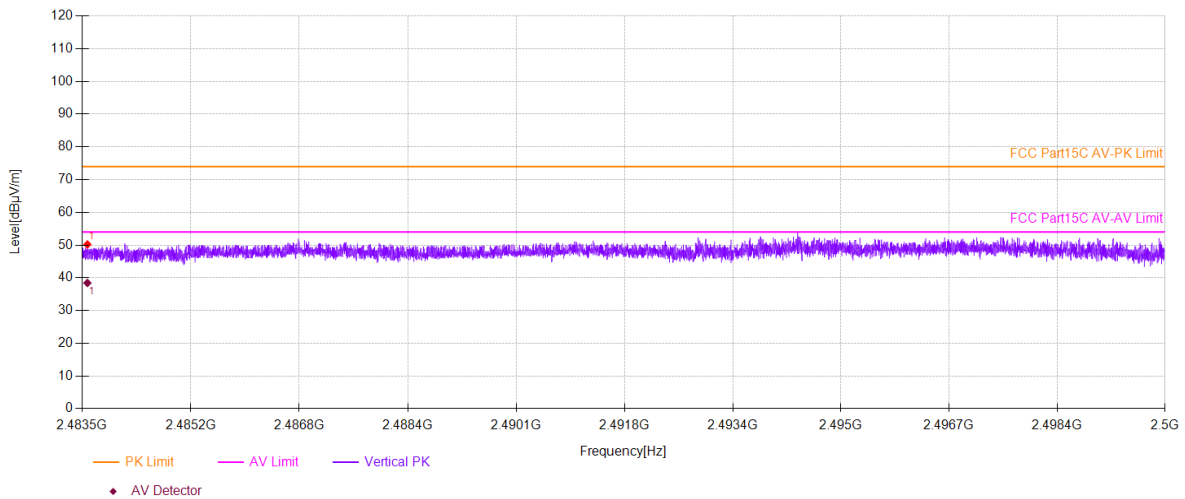


Spurious Emission in Restricted Band 2483.5-2500MHz

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)

☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz ☐ Channel 13: 2484MHz

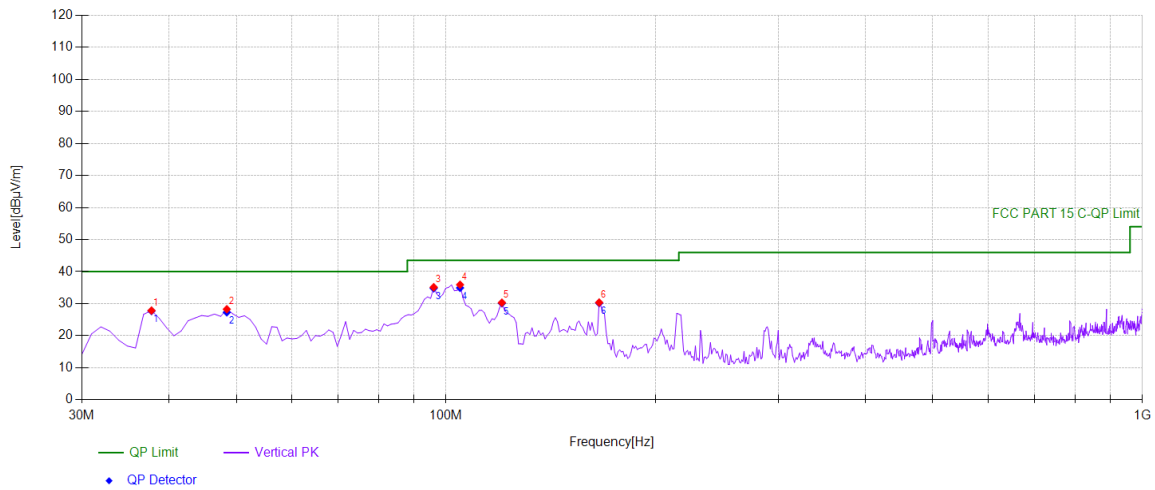
VBW=3MHz Polarity: V



■ Spurious Emission below 1GHz (30MHz to 1GHz)

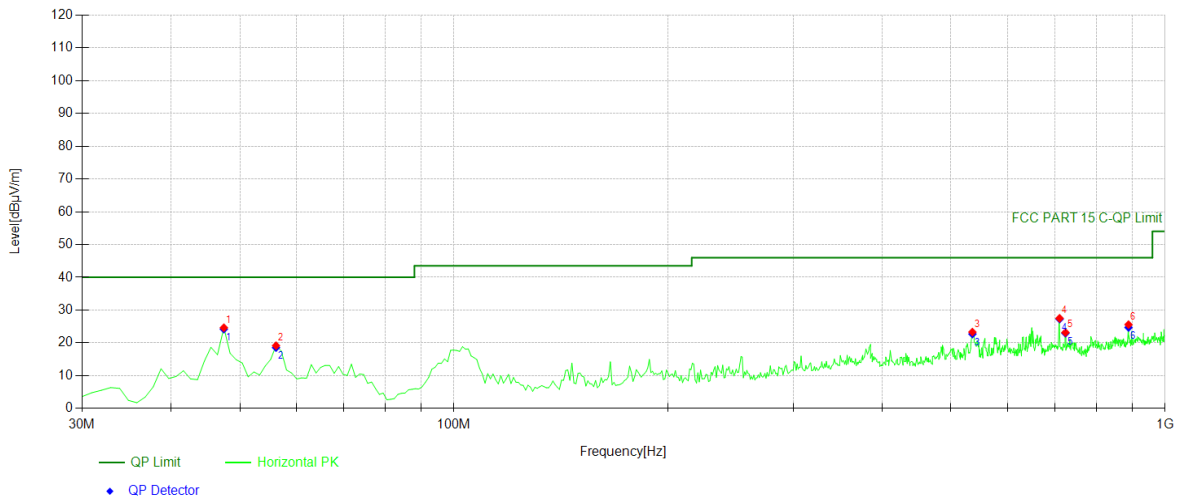
All antenna modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11n20 recorded was report as below:

Mode:	11B 2412
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Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	37.7678	51.62	-23.76	27.86	PK	40.00	12.14	Vertical
2	48.4484	50.53	-22.24	28.29	PK	40.00	11.71	Vertical
3	96.026	58.98	-23.83	35.15	PK	43.50	8.35	Vertical
4	104.764	59.45	-23.53	35.92	PK	43.50	7.58	Vertical
5	120.300	54.92	-24.61	30.31	PK	43.50	13.19	Vertical
6	165.935	55.56	-25.20	30.36	PK	43.50	13.14	Vertical

Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	37.7678	-23.76	27.72	40.00	12.28
2	48.4484	-22.24	27.31	40.00	12.69
3	96.026	-23.83	34.81	43.50	8.69
4	104.7648	-23.53	34.94	43.50	8.56
5	120.3003	-24.61	30.14	43.50	13.36
6	165.9359	-25.20	30.19	43.50	13.31



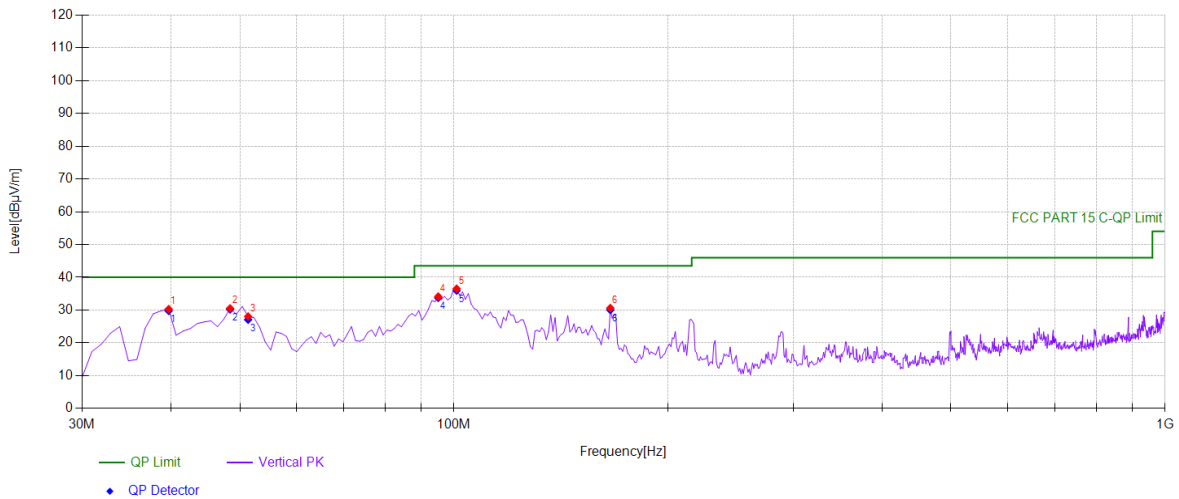
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	47.03	-22.39	24.64	PK	40.00	15.36	Horizontal
2	56.2162	42.04	-22.87	19.17	PK	40.00	20.83	Horizontal
3	535.875	38.43	-15.12	23.31	PK	46.00	22.69	Horizontal
4	710.650	39.29	-11.78	27.51	PK	46.00	18.49	Horizontal
5	724.244	34.79	-11.61	23.18	PK	46.00	22.82	Horizontal
6	888.338	34.74	-9.16	25.58	PK	46.00	20.42	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-22.39	24.20	40.00	15.80
2	56.2162	-22.87	18.57	40.00	21.43
3	535.8759	-15.12	22.71	46.00	23.29
4	710.6507	-11.78	27.27	46.00	18.73
5	724.2442	-11.61	22.94	46.00	23.06
6	888.3383	-9.16	24.70	46.00	21.30

Mode:	11B 2437
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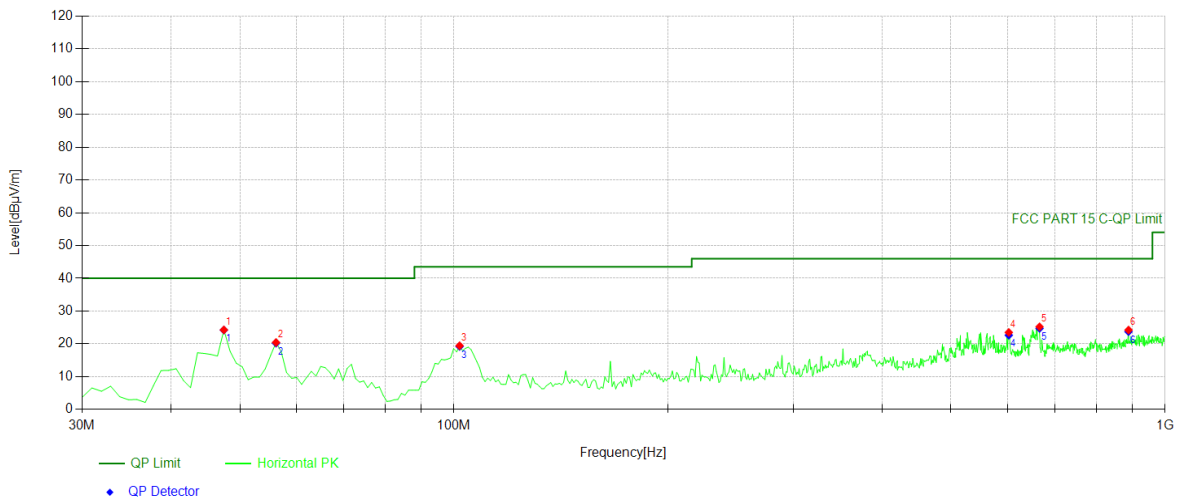


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	39.7097	53.81	-23.50	30.31	PK	40.00	9.69	Vertical
2	48.4484	52.78	-22.24	30.54	PK	40.00	9.46	Vertical
3	51.3614	50.27	-22.21	28.06	PK	40.00	11.94	Vertical
4	95.0551	58.10	-23.97	34.13	PK	43.50	9.37	Vertical
5	100.880	59.79	-23.26	36.53	PK	43.50	6.97	Vertical
6	165.935	55.83	-25.20	30.63	PK	43.50	12.87	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	39.7097	-23.50	29.80	40.00	10.20
2	48.4484	-22.24	30.23	40.00	9.77
3	51.3614	-22.21	27.10	40.00	12.90
4	95.0551	-23.97	33.73	43.50	9.77
5	100.8809	-23.26	35.96	43.50	7.54
6	165.9359	-25.20	30.06	43.50	13.44



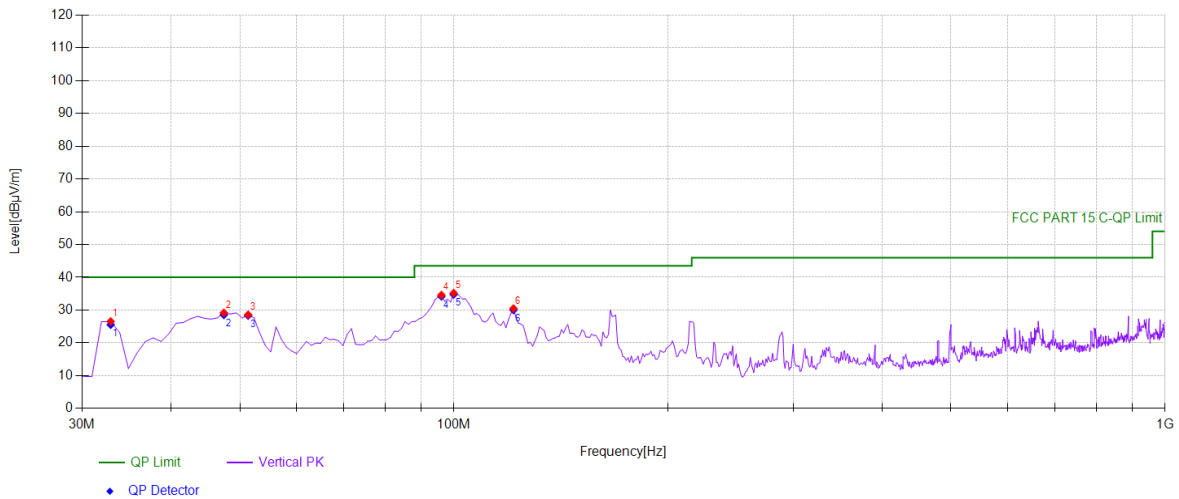
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	46.67	-22.39	24.28	PK	40.00	15.72	Horizontal
2	56.2162	43.32	-22.87	20.45	PK	40.00	19.55	Horizontal
3	101.851	42.78	-23.33	19.45	PK	43.50	24.05	Horizontal
4	602.872	35.77	-12.26	23.51	PK	46.00	22.49	Horizontal
5	665.986	37.93	-12.70	25.23	PK	46.00	20.77	Horizontal
6	888.338	33.39	-9.16	24.23	PK	46.00	21.77	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-22.39	24.22	40.00	15.78
2	56.2162	-22.87	20.23	40.00	19.77
3	101.8519	-23.33	19.23	43.50	24.27
4	602.8729	-12.26	22.65	46.00	23.35
5	665.986	-12.70	24.73	46.00	21.27
6	888.3383	-9.16	23.73	46.00	22.27

Mode:	11B 2462
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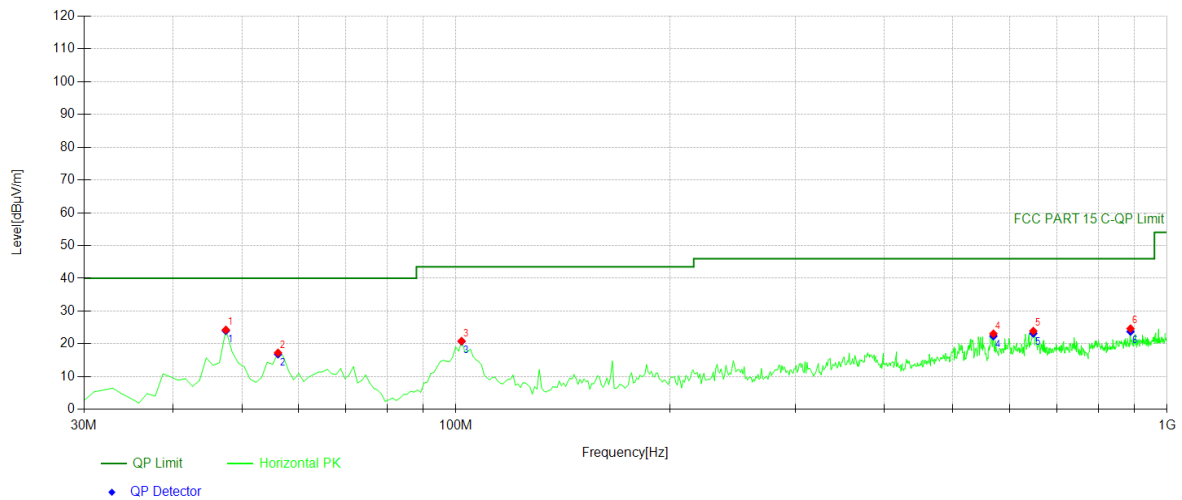


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	32.9129	50.96	-24.41	26.55	PK	40.00	13.45	Vertical
2	47.4775	51.57	-22.39	29.18	PK	40.00	10.82	Vertical
3	51.3614	50.81	-22.21	28.60	PK	40.00	11.40	Vertical
4	96.026	58.44	-23.83	34.61	PK	43.50	8.89	Vertical
5	99.9099	58.42	-23.22	35.20	PK	43.50	8.30	Vertical
6	121.271	55.15	-24.67	30.48	PK	43.50	13.02	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	32.9129	-24.41	25.56	40.00	14.44
2	47.4775	-22.39	28.55	40.00	11.45
3	51.3614	-22.21	28.33	40.00	11.67
4	96.026	-23.83	34.18	43.50	9.32
5	99.9099	-23.22	34.77	43.50	8.73
6	121.2713	-24.67	30.05	43.50	13.45



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	46.68	-22.39	24.29	PK	40.00	15.71	Horizontal
2	56.2162	40.17	-22.87	17.30	PK	40.00	22.70	Horizontal
3	101.851	44.18	-23.33	20.85	PK	43.50	22.65	Horizontal
4	569.859	36.85	-13.74	23.11	PK	46.00	22.89	Horizontal
5	648.508	36.90	-12.98	23.92	PK	46.00	22.08	Horizontal
6	888.338	33.83	-9.16	24.67	PK	46.00	21.33	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-22.39	24.00	40.00	16.00
2	56.2162	-22.87	16.85	40.00	23.15
3	101.8519	-23.33	20.76	43.50	22.74
4	569.8599	-13.74	22.38	46.00	23.62
5	648.5085	-12.98	23.19	46.00	22.81
6	888.3383	-9.16	23.77	46.00	22.23

FPC Antenna 2:

- Spurious Emission Above 1GHz(1GHz to 25GHz)
- All antenna modes 2.4G 802.11b/g/n have been tested, and the worst result recorded was report as below:

Test mode: 802.11 b Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
7556.25	V	56.02	39.42	74.00	54.00	17.98	14.58
9941.25	V	61.74	42.97	74.00	54.00	12.26	11.03
13689.3	V	64.13	43.88	74.00	54.00	9.87	10.12
8289.37	H	56.41	40.39	74.00	54.00	17.59	13.61
9976.87	H	61.61	42.54	74.00	54.00	12.39	11.46
13693.1	H	64.80	43.53	74.00	54.00	9.20	10.47

Test mode: 802.11 b Frequency: Channel 6: 2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8034.37	V	56.42	39.33	74.00	54.00	17.58	14.67
9918.75	V	61.85	43.22	74.00	54.00	12.15	10.78
14696.2	V	64.02	45.68	74.00	54.00	9.98	8.32
8000.62	H	56.63	39.44	74.00	54.00	17.37	14.56
9997.5	H	61.75	42.33	74.00	54.00	12.25	11.67
13723.1	H	64.32	43.42	74.00	54.00	9.68	10.58

Test mode: 802.11 b Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
7980	V	56.90	39.20	74.00	54.00	17.10	14.80
9255	V	58.99	39.40	74.00	54.00	15.01	14.60
14739.3	V	64.44	45.96	74.00	54.00	9.56	8.04
7963.12	H	56.51	39.31	74.00	54.00	17.49	14.69
9922.5	H	63.08	42.88	74.00	54.00	10.92	11.12
13713.7	H	64.71	43.51	74.00	54.00	9.29	10.49

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Corrected Reading= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) Margin = Limit - Corrected Reading
 - (5)The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz
All modes 2.4G 802.11b/g/n have been tested, and the worst result recorded was report as below:

Test mode: 802.11N20 Frequency: Channel 1: 2412MHz

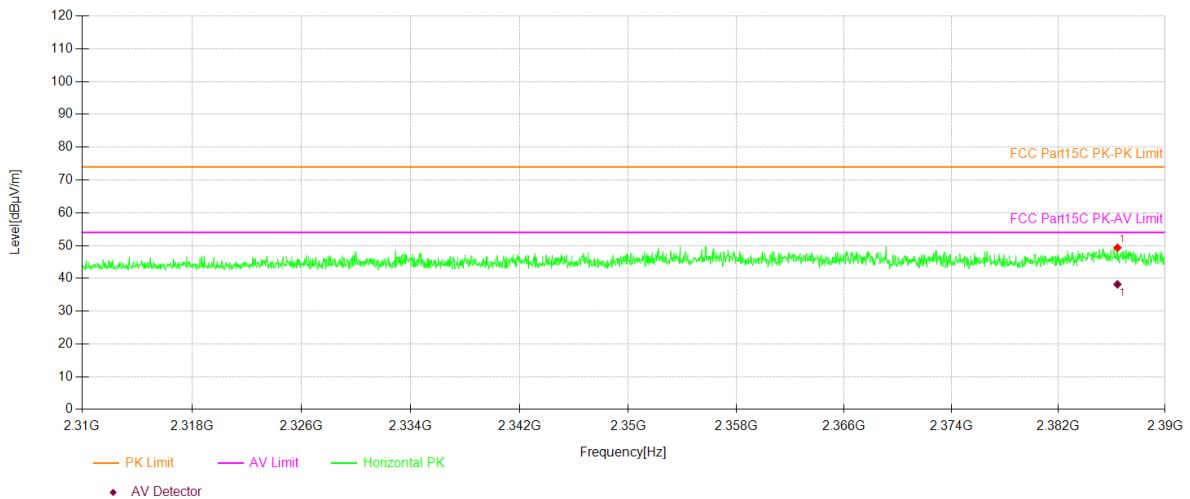
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2386.42	H	49.34	74.00	38.16	54.00
2385.06	V	50.75	74.00	38.14	54.00

Test mode: 802.11N20 Frequency: Channel 11: 2462MHz

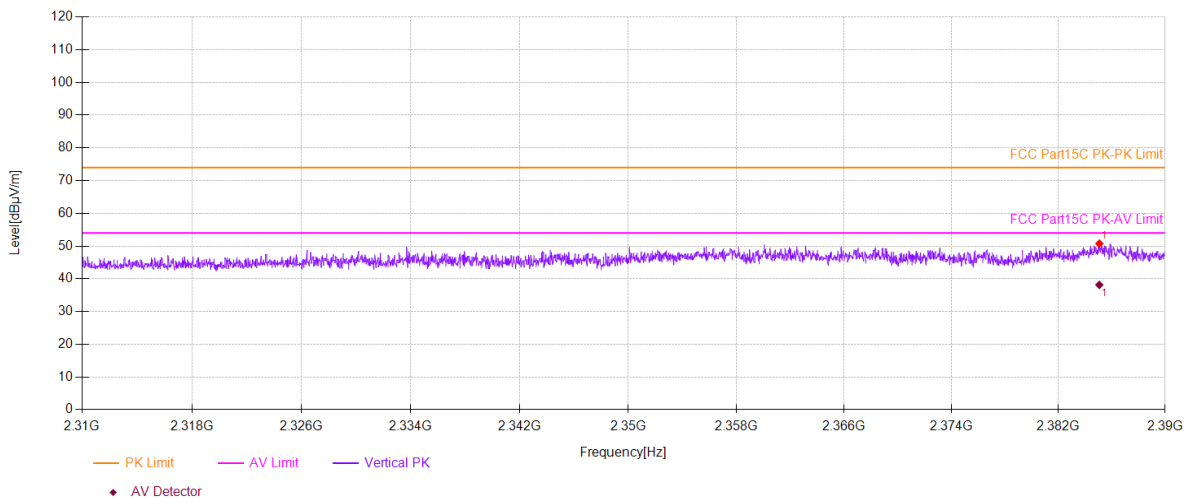
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2483.65	H	52.34	74.00	38.11	54.00
2483.50	V	59.30	74.00	38.60	54.00

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Corrected Reading= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) Margin = Limit - Corrected Reading
 - (5) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Spurious Emission in Restricted Band 2310-2390MHz			
Test Model	☐ 802.11b	☐ 802.11g	☒ 802.11n(HT20)
	☒ Channel 1: 2412MHz	☐ Channel 3: 2422MHz	☐ 802.11n(HT40)
	VBW=3MHz		Polarity: H

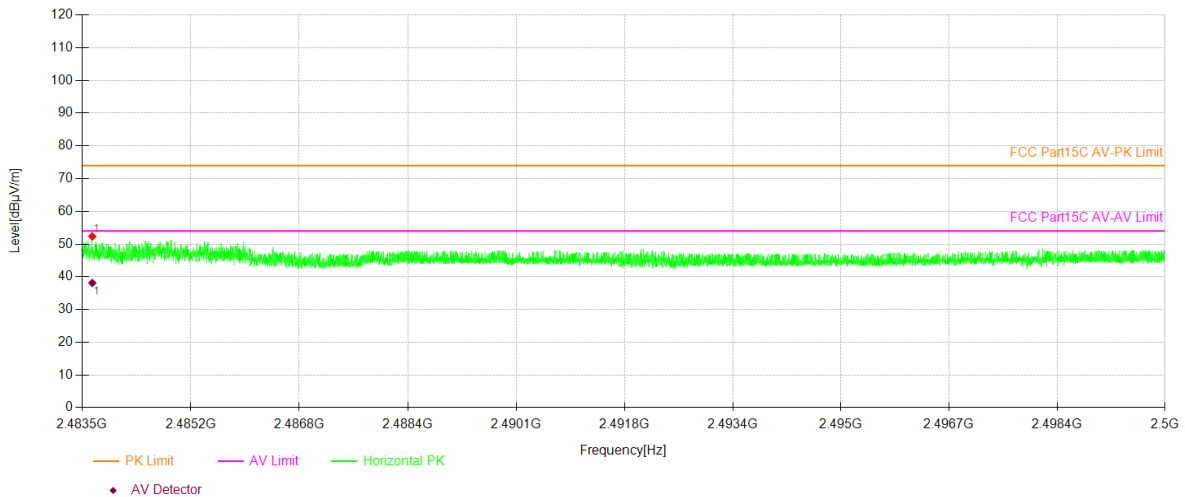


Spurious Emission in Restricted Band 2310-2390MHz			
Test Model	☐ 802.11b	☐ 802.11g	☒ 802.11n(HT20)
	☒ Channel 1: 2412MHz	☐ Channel 3: 2422MHz	☐ 802.11n(HT40)
	VBW=3MHz		Polarity: V



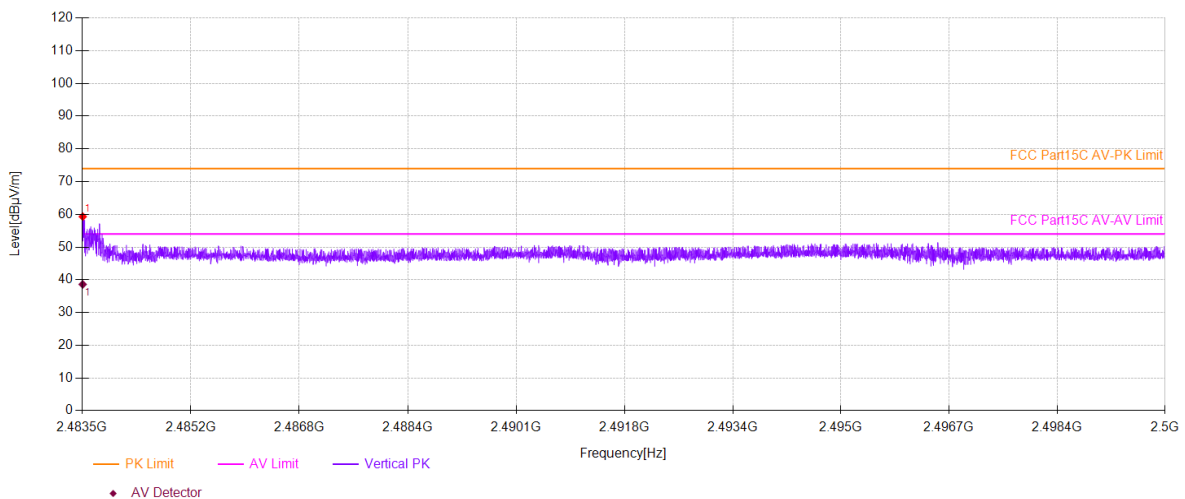
Spurious Emission in Restricted Band 2483.5-2500MHz

Test Model	☐ 802.11b	☐ 802.11g	☒ 802.11n(HT20)	☐ 802.11n(HT40)
	☒ Channel 11: 2462MHz	☐ Channel 9: 2452MHz	Polarity: H	
VBW=3MHz				



Spurious Emission in Restricted Band 2483.5-2500MHz

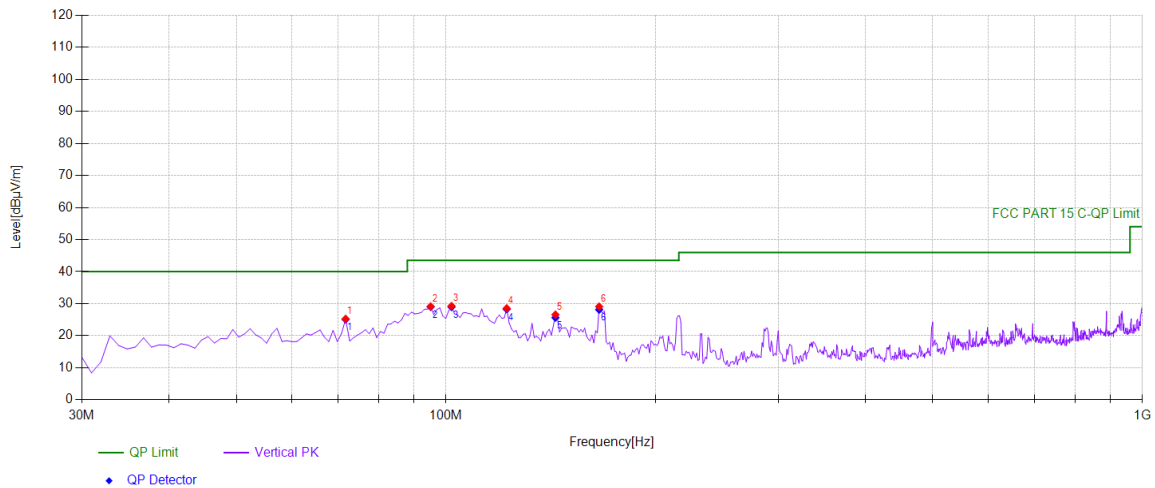
Test Model	☐ 802.11b	☐ 802.11g	☒ 802.11n(HT20)	☐ 802.11n(HT40)
	☒ Channel 11: 2462MHz	☐ Channel 9: 2452MHz	Polarity: V	
VBW=3MHz				



■ Spurious Emission below 1GHz (30MHz to 1GHz)

All antenna modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11n20 recorded was report as below:

Mode:	11B 2412
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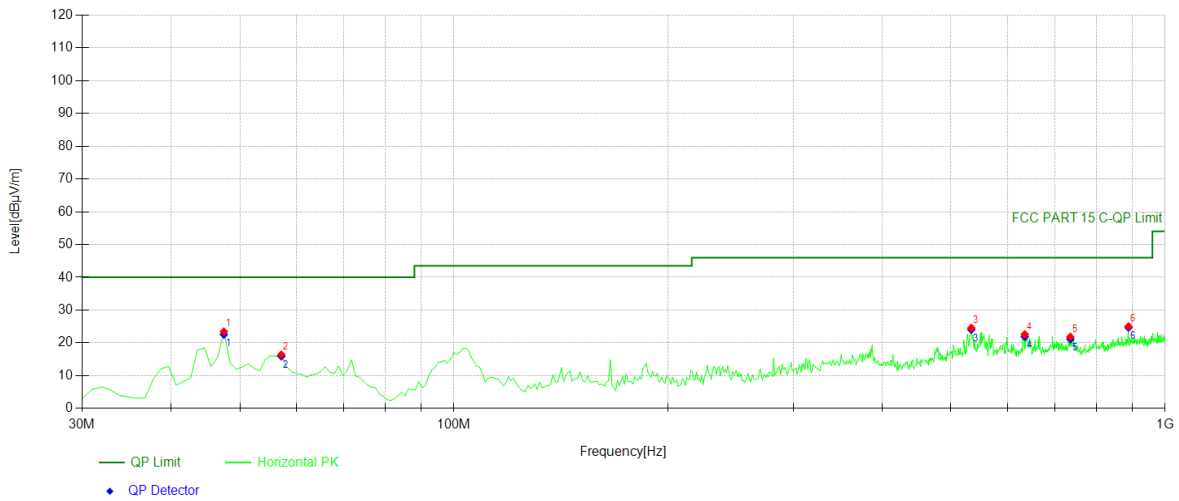


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	71.7518	50.28	-25.03	25.25	PK	40.00	14.75	Vertical
2	95.0551	53.11	-23.97	29.14	PK	43.50	14.36	Vertical
3	101.851	52.61	-23.33	29.28	PK	43.50	14.22	Vertical
4	122.242	53.30	-24.73	28.57	PK	43.50	14.93	Vertical
5	143.603	52.29	-25.71	26.58	PK	43.50	16.92	Vertical
6	165.935	54.29	-25.20	29.09	PK	43.50	14.41	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	71.7518	-25.03	25.12	40.00	14.88
2	95.0551	-23.97	29.01	43.50	14.49
3	101.8519	-23.33	28.99	43.50	14.51
4	122.2422	-24.73	28.28	43.50	15.22
5	143.6036	-25.71	25.64	43.50	17.86
6	165.9359	-25.20	28.15	43.50	15.35



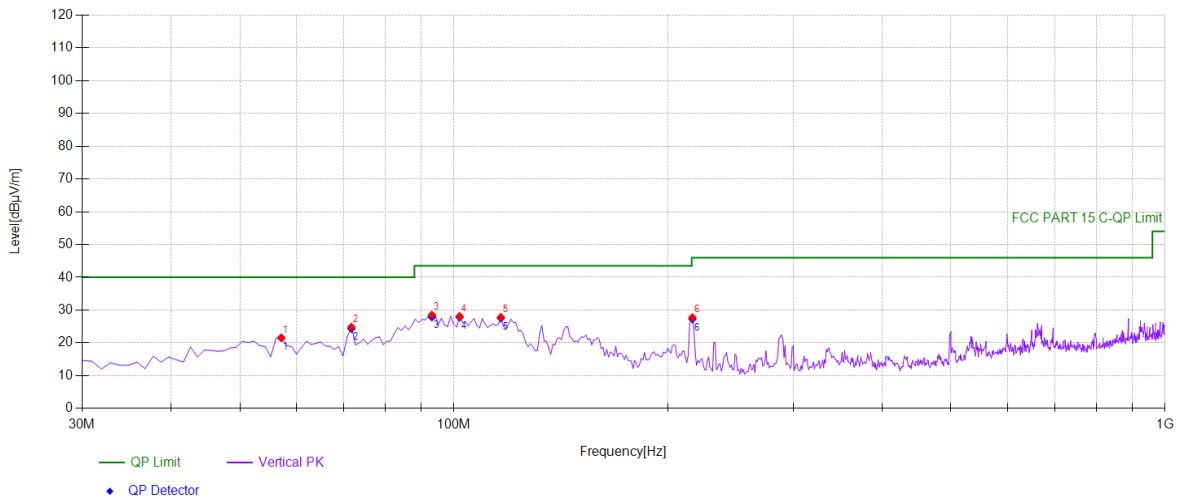
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	45.83	-22.39	23.44	PK	40.00	16.56	Horizontal
2	57.1872	39.44	-23.00	16.44	PK	40.00	23.56	Horizontal
3	533.933	39.75	-15.17	24.58	PK	46.00	21.42	Horizontal
4	634.914	35.79	-13.18	22.61	PK	46.00	23.39	Horizontal
5	735.895	33.16	-11.32	21.84	PK	46.00	24.16	Horizontal
6	888.338	34.17	-9.16	25.01	PK	46.00	20.99	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-22.39	22.56	40.00	17.44
2	57.1872	-23.00	15.91	40.00	24.09
3	533.9339	-15.17	24.05	46.00	21.95
4	634.9149	-13.18	21.92	46.00	24.08
5	735.8959	-11.32	21.15	46.00	24.85
6	888.3383	-9.16	24.68	46.00	21.32

Mode:	11B 2437
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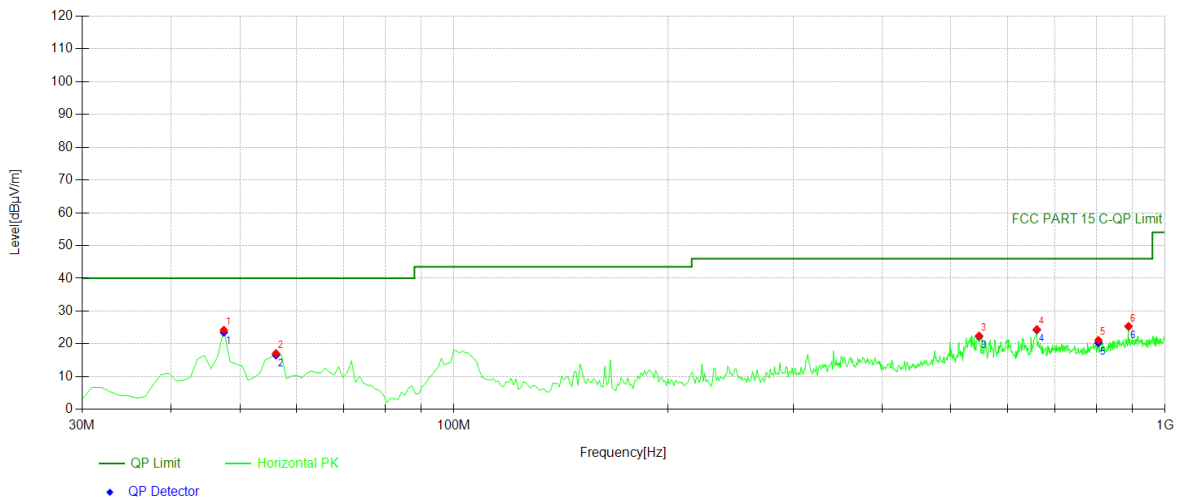


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	57.1872	44.58	-23.00	21.58	PK	40.00	18.42	Vertical
2	71.7518	49.89	-25.03	24.86	PK	40.00	15.14	Vertical
3	93.1131	52.82	-24.27	28.55	PK	43.50	14.95	Vertical
4	101.851	51.46	-23.33	28.13	PK	43.50	15.37	Vertical
5	116.416	52.19	-24.34	27.85	PK	43.50	15.65	Vertical
6	216.426	50.34	-22.59	27.75	PK	46.00	18.25	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	57.1872	-23.00	21.54	40.00	18.46
2	71.7518	-25.03	24.37	40.00	15.63
3	93.1131	-24.27	27.90	43.50	15.60
4	101.8519	-23.33	27.84	43.50	15.66
5	116.4164	-24.34	27.56	43.50	15.94
6	216.4264	-22.59	27.29	46.00	18.71



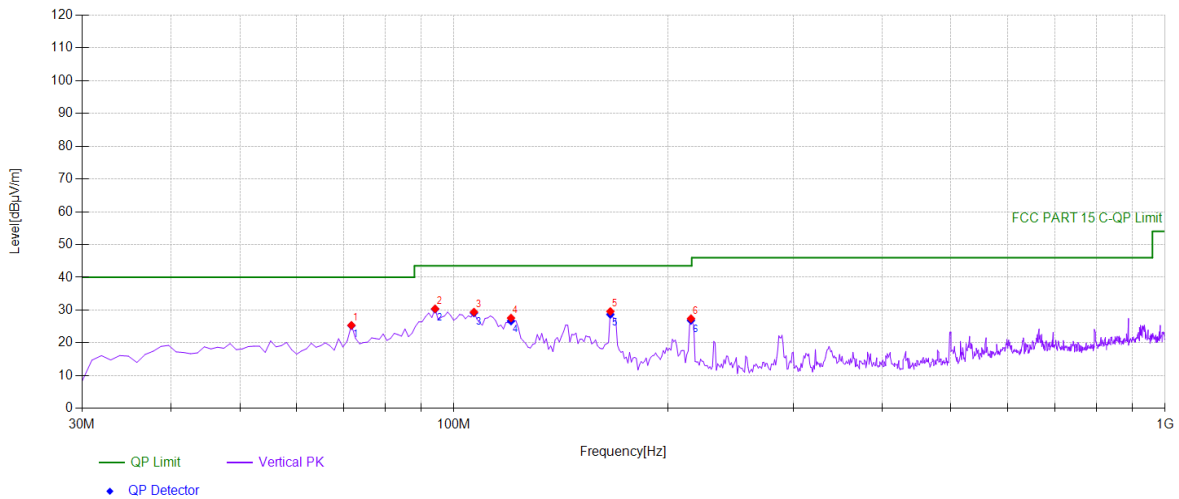
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	46.63	-22.39	24.24	PK	40.00	15.76	Horizontal
2	56.2162	39.99	-22.87	17.12	PK	40.00	22.88	Horizontal
3	547.527	37.25	-14.77	22.48	PK	46.00	23.52	Horizontal
4	660.160	37.13	-12.69	24.44	PK	46.00	21.56	Horizontal
5	805.805	32.10	-10.97	21.13	PK	46.00	24.87	Horizontal
6	888.338	34.50	-9.16	25.34	PK	46.00	20.66	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-22.39	23.49	40.00	16.51
2	56.2162	-22.87	16.56	40.00	23.44
3	547.5275	-14.77	22.28	46.00	23.72
4	660.1602	-12.69	24.24	46.00	21.76
5	805.8058	-10.97	20.29	46.00	25.71
6	888.3383	-9.16	25.34	46.00	20.66

Mode:	11B 2462
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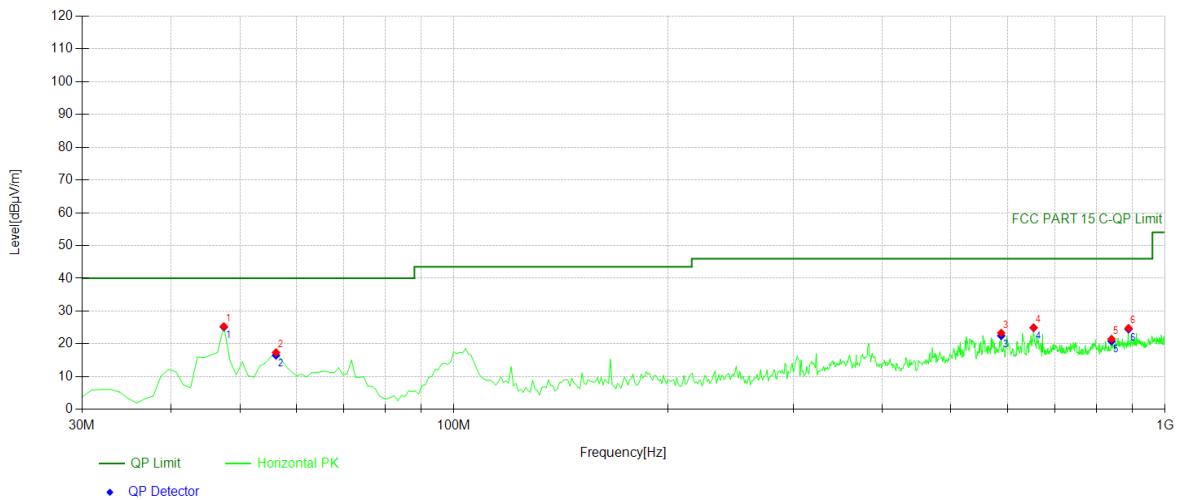


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	71.7518	50.41	-25.03	25.38	PK	40.00	14.62	Vertical
2	94.0841	54.54	-24.13	30.41	PK	43.50	13.09	Vertical
3	106.706	53.07	-23.65	29.42	PK	43.50	14.08	Vertical
4	120.300	52.20	-24.61	27.59	PK	43.50	15.91	Vertical
5	165.935	54.80	-25.20	29.60	PK	43.50	13.90	Vertical
6	215.455	50.07	-22.65	27.42	PK	43.50	16.08	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	71.7518	-25.03	25.27	40.00	14.73
2	94.0841	-24.13	30.30	43.50	13.20
3	106.7067	-23.65	29.14	43.50	14.36
4	120.3003	-24.61	26.67	43.50	16.83
5	165.9359	-25.20	28.68	43.50	14.82
6	215.4555	-22.65	26.86	43.50	16.64



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	47.73	-22.39	25.34	PK	40.00	14.66	Horizontal
2	56.2162	40.24	-22.87	17.37	PK	40.00	22.63	Horizontal
3	588.308	36.09	-12.76	23.33	PK	46.00	22.67	Horizontal
4	653.363	37.82	-12.87	24.95	PK	46.00	21.05	Horizontal
5	840.760	31.82	-10.33	21.49	PK	46.00	24.51	Horizontal
6	888.338	33.95	-9.16	24.79	PK	46.00	21.21	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-22.39	25.13	40.00	14.87
2	56.2162	-22.87	16.52	40.00	23.48
3	588.3083	-12.76	22.48	46.00	23.52
4	653.3634	-12.87	24.93	46.00	21.07
5	840.7608	-10.33	20.83	46.00	25.17
6	888.3383	-9.16	24.49	46.00	21.51

7.6 CONDUCTED EMISSION TEST

7.6.1 Applicable Standard

According to FCC Part 15.207(a)

7.6.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.6.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

7.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

7.6.5 Test Results

N/A

7.7 ANTENNA APPLICATION

7.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi..

7.7.2 Result

PASS.

- - ☒ Antenna uses a permanently attached antenna which is not replaceable.
 - ☐ Not using a standard antenna jack or electrical connector for antenna replacement
 - ☐ The antenna has to be professionally installed (please provide method of installation)

Which in accordance to section 15.203, please refer to the internal photos

Detail of factor for radiated emission

Frequency(MHz)	Ant F(dB)	Cab L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

*** End of Report ***