

Appendix A: Test Results of Radiated Emissions & Mains Conducted Emission Test

Band Edges, 2.31GHz ~ 7GHz

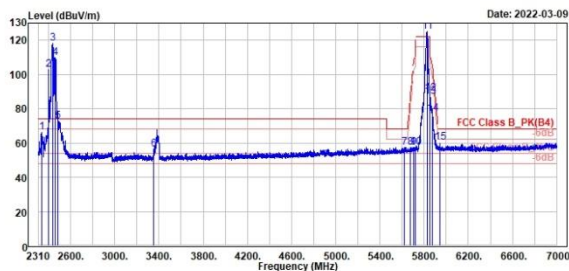
802.11ax HE20 2437(Traffic)+ 802.11a 5825 (Traffic)+ 802.11ac 2462(Scan)+BLE 2M 2402

(Horizontal) Peak

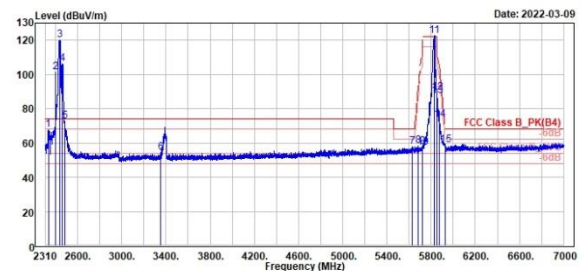
(Vertical) Peak



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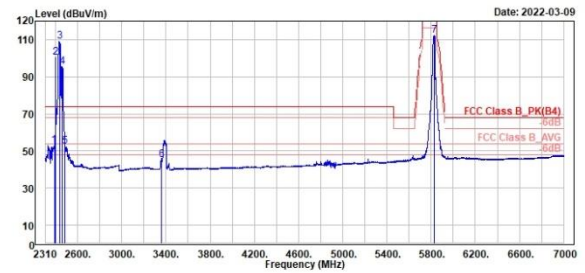
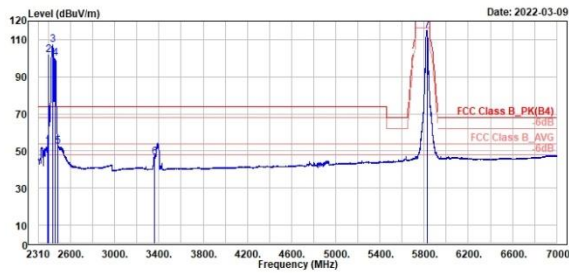
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2338.03	66.35	29.01	37.34	74.00	-7.65	100	360 Peak	Horizontal
2 *	2402.00	103.01	65.38	37.63	74.00	29.01	111	359 Peak	Horizontal
3 *	2437.00	118.20	80.52	37.68	74.00	44.20	102	109 Peak	Horizontal
4 *	2462.00	109.98	72.25	37.73	74.00	35.98	339	357 Peak	Horizontal
5 !	2484.32	72.72	34.92	37.80	74.00	-1.28	200	360 Peak	Horizontal
6	3353.32	56.17	17.21	38.96	74.00	-17.83	212	0 Peak	Horizontal
7	5620.00	57.54	14.14	43.40	68.20	-10.66	100	247 Peak	Horizontal
8	5678.50	57.50	13.94	43.56	68.20	-11.83	100	300 Peak	Horizontal
9	5709.00	57.41	13.74	43.67	107.72	-50.31	300	336 Peak	Horizontal
10	5720.50	57.15	13.47	43.68	111.94	-54.79	300	331 Peak	Horizontal
11 *	5825.00	124.95	81.03	43.92	122.20	2.75	190	19 Peak	Horizontal
12	5850.00	88.87	44.88	43.99	122.20	-33.33	300	321 Peak	Horizontal
13	5855.00	87.12	43.11	44.01	110.80	-23.68	200	60 Peak	Horizontal
14	5875.00	77.13	33.07	44.06	105.20	-28.07	200	70 Peak	Horizontal
15	5944.00	60.28	16.02	44.26	68.20	-7.92	300	308 Peak	Horizontal

Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2335.40	67.83	30.50	37.33	74.00	-6.17	252	0 Peak	Vertical
2 *	2402.00	101.47	63.84	37.63	74.00	27.47	359	17 Peak	Vertical
3 *	2437.00	120.17	82.49	37.68	74.00	46.17	400	358 Peak	Vertical
4 *	2462.00	106.30	68.57	37.73	74.00	32.30	198	13 Peak	Vertical
5 !	2483.89	72.86	35.06	37.80	74.00	-1.14	200	360 Peak	Vertical
6	3352.00	54.20	15.23	38.97	74.00	-19.00	200	349 Peak	Vertical
7	5630.50	57.97	14.56	43.41	68.20	-10.23	200	38 Peak	Vertical
8	5682.50	58.11	14.53	43.58	92.29	-34.18	400	248 Peak	Vertical
9	5719.00	57.82	14.14	43.68	110.52	-52.70	200	330 Peak	Vertical
10	5722.00	57.13	13.45	43.68	115.36	-58.23	100	52 Peak	Vertical
11 *	5825.00	122.57	78.65	43.92	122.20	0.37	200	62 Peak	Vertical
12	5850.00	89.49	45.50	43.99	117.64	-28.15	400	360 Peak	Vertical
13	5855.00	87.39	43.38	44.01	110.80	-23.41	300	66 Peak	Vertical
14	5876.50	73.77	29.70	44.07	104.09	-30.32	100	25 Peak	Vertical
15	5928.50	59.05	14.83	44.22	68.20	-9.15	400	19 Peak	Vertical

802.11ax HE20 2437(Traffic)+ 802.11a 5825 (Traffic)+ 802.11ac 2462(Scan)+BLE 2M 2402

(Horizontal) Average

(Vertical) Average



Freq	Level	Read	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.72	52.45	14.87	37.58	54.00	-1.55	180	360	Average Horizontal
2	2402.00	101.71	64.88	37.63	54.00	47.71	111	359	Average Horizontal
3	2437.00	107.42	69.74	37.68	54.00	53.42	102	189	Average Horizontal
4	2462.00	99.79	62.06	37.73	54.00	45.79	339	357	Average Horizontal
5	2485.20	52.54	14.74	37.80	54.00	-1.46	200	360	Average Horizontal
6	3355.94	46.73	7.79	38.94	54.00	-7.27	200	340	Average Horizontal
7	5825.00	115.07	71.15	43.92	54.00	61.07	198	19	Average Horizontal

Freq	Level	Read	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.04	52.89	15.31	37.58	54.00	-1.11	252	0	Average Vertical
2	2402.00	100.52	62.89	37.63	54.00	46.52	350	17	Average Vertical
3	2437.00	109.13	71.45	37.68	54.00	55.13	400	358	Average Vertical
4	2462.00	95.46	57.73	37.73	54.00	41.46	198	13	Average Vertical
5	2484.76	52.65	14.85	37.80	54.00	-1.35	200	360	Average Vertical
6	3356.02	45.37	6.43	38.94	54.00	-8.63	198	360	Average Vertical
7	5825.00	112.31	68.39	43.92	54.00	58.31	200	62	Average Vertical

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

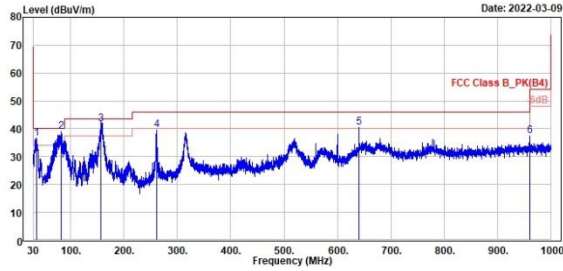
802.11ax HE20 2437(Traffic)+ 802.11a 5825 (Traffic)+ 802.11ac 2462(Scan)+BLE 2M 2402

Horizontal

Vertical



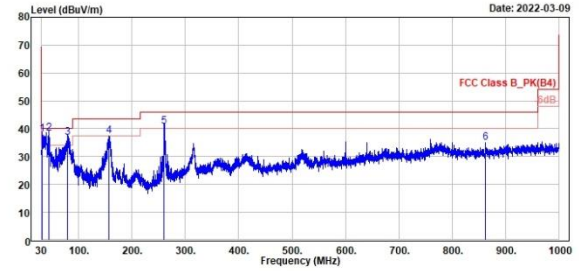
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Line	Freq	Level	Read	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	36.11	36.61	44.87	-8.26	48.00	-3.39	100	111	QP	Horizontal
2	82.77	38.79	51.00	-12.21	48.00	-1.21	200	101	QP	Horizontal
3	156.78	41.79	48.34	-6.55	43.50	-1.71	100	125	QP	Horizontal
4	268.76	39.49	46.33	-6.84	46.00	-6.51	200	27	QP	Horizontal
5	648.83	48.38	40.00	8.38	46.00	-5.70	127	360	QP	Horizontal
6	958.84	37.42	32.70	4.72	54.00	-16.58	300	8	QP	Horizontal



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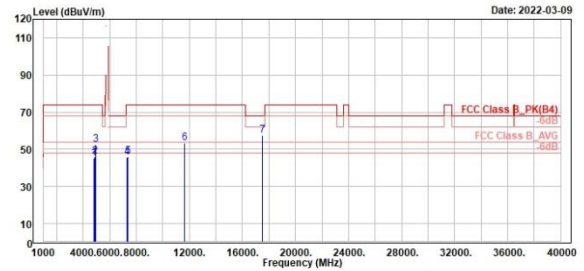
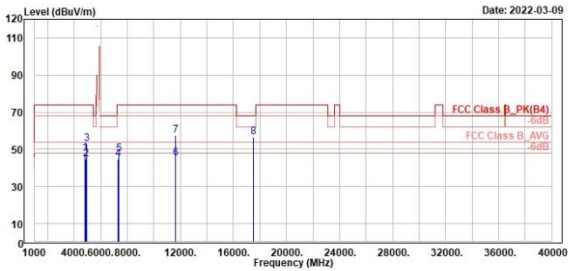
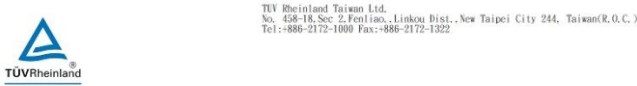
Line	Freq	Level	Read	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	31.94	37.92	46.47	-8.55	48.00	-2.08	100	360	QP	Vertical
2	44.45	38.28	45.12	-6.84	48.00	-1.72	100	335	QP	Vertical
3	79.47	36.69	48.23	-11.54	48.00	-3.31	400	2	QP	Vertical
4	156.78	37.51	44.06	-6.55	43.50	-5.99	200	167	QP	Vertical
5	259.21	48.82	47.75	-6.93	46.00	-5.18	100	284	QP	Vertical
6	861.87	35.84	31.78	3.26	46.00	-10.96	100	18	QP	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 40GHz

802.11ax HE20 2437(Traffic)+ 802.11a 5825 (Traffic)+ 802.11ac 2462(Scan)+BLE 2M 2402

(Horizontal) Peak

(Vertical) Peak



1	2	3	4	5	6	7	8	
Read Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
4894.00	47.88	57.67	-9.87	74.00	-26.28	192	38	Peak Horizontal
4874.00	44.62	54.39	-9.77	74.00	-29.38	294	152	Peak Horizontal
4924.00	53.05	62.73	-9.68	74.00	-28.95	100	182	Peak Horizontal
7311.00	44.63	52.14	-7.51	74.00	-29.37	197	298	Peak Horizontal
7386.00	47.59	55.02	-7.43	74.00	-26.41	352	246	Peak Horizontal
11658.00	45.27	46.21	-0.94	54.00	-8.73	281	289	Average Horizontal
11658.00	57.36	58.30	-0.94	74.00	-16.64	281	289	Peak Horizontal
17475.00	56.68	49.73	6.95	68.20	-11.52	281	69	Peak Horizontal

1	2	3	4	5	6	7		
Read Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
4894.00	45.14	55.81	-9.87	74.00	-28.86	382	345	Peak Vertical
4874.00	45.99	55.76	-9.77	74.00	-28.81	198	275	Peak Vertical
4924.00	52.65	62.33	-9.68	74.00	-21.35	298	6	Peak Vertical
7311.00	45.52	53.03	-7.51	74.00	-28.48	342	359	Peak Vertical
7386.00	46.13	53.56	-7.43	74.00	-27.87	182	54	Peak Vertical
11658.00	53.36	54.30	-0.94	74.00	-20.64	158	34	Peak Vertical
17475.00	57.61	58.66	6.95	68.20	-10.59	161	359	Peak Vertical

Mains Conducted Emission, 150kHz ~ 30MHz

802.11ax HE20 2437(Traffic)+ 802.11a 5825 (Traffic)+ 802.11ac 2462(Scan)+BLE 2M 2402

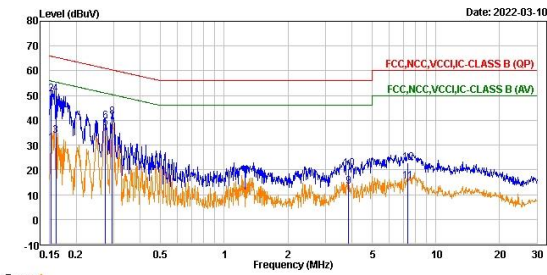
Worst Band for Adapter

(Line)

(Neutral)



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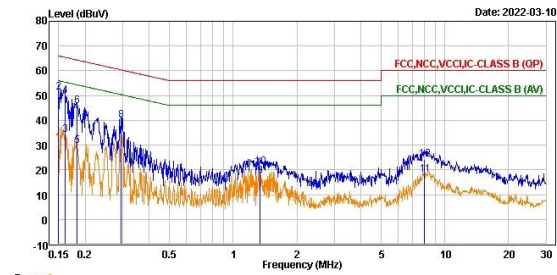


Trace: 1

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	30.72	21.03	9.69	55.92	-25.20	Average	line1	
2	0.15	50.56	40.87	9.69	65.92	-15.36	QP	line1	
3	0.16	33.65	23.96	9.69	55.46	-21.81	Average	line1	
4	0.16	50.54	40.85	9.69	65.46	-14.92	QP	line1	
5	0.28	36.92	27.24	9.68	50.95	-14.03	Average	line1	
6	0.28	39.72	30.04	9.68	60.95	-21.23	QP	line1	
7	0.30	39.20	29.53	9.67	50.37	-11.17	Average	line1	
8	0.30	41.29	31.62	9.67	60.37	-19.08	QP	line1	
9	3.87	13.39	3.65	9.74	46.00	-32.61	Average	line1	
10	3.87	20.29	10.55	9.74	56.00	-35.71	QP	line1	
11	7.36	15.27	5.48	9.79	50.00	-34.73	Average	line1	
12	7.36	22.80	13.01	9.79	60.00	-37.20	QP	line1	



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Trace: 1

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	30.82	21.15	9.67	56.00	-25.18	Average	neutral	
2	0.15	51.09	41.42	9.67	66.00	-14.91	QP	neutral	
3	0.16	34.20	24.53	9.67	55.42	-21.22	Average	neutral	
4	0.16	50.00	40.33	9.67	65.42	-15.42	QP	neutral	
5	0.18	29.76	20.10	9.66	54.39	-24.63	Average	neutral	
6	0.18	45.95	36.29	9.66	64.39	-18.44	QP	neutral	
7	0.30	33.39	23.74	9.65	50.37	-16.98	Average	neutral	
8	0.30	40.04	30.39	9.65	60.37	-20.33	QP	neutral	
9	1.34	17.36	7.69	9.67	46.00	-28.61	Average	neutral	
10	1.34	21.29	11.62	9.67	56.00	-34.71	QP	neutral	
11	8.01	17.97	8.20	9.77	50.00	-32.03	Average	neutral	
12	8.01	24.39	14.62	9.77	60.00	-35.61	QP	neutral	

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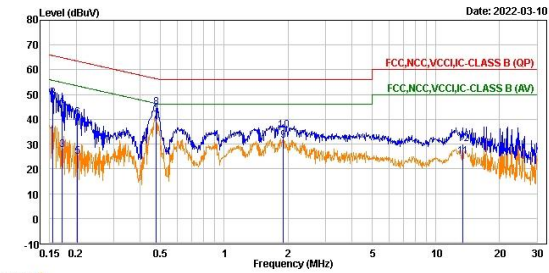
Worst Band for POE

(Line)

(Neutral)



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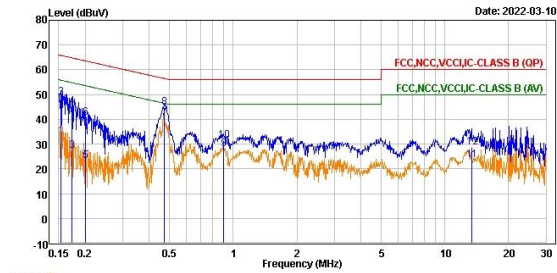


Trace: 1

Line	Freq (MHz)	Level (dBuV)	Read Level (dBuV)	Factor (dB)	Limit Line (dBuV)	Over Limit (dB)	Remark	Pol/Phase	Note
1	0.15	33.15	23.46	9.69	55.75	-22.60	Average	line1	
2	0.15	48.65	38.96	9.69	65.75	-17.10	QP	line1	
3	0.17	27.81	18.12	9.69	54.92	-27.11	Average	line1	
4	0.17	45.29	35.60	9.69	64.92	-19.63	QP	line1	
5	0.20	25.01	15.33	9.68	53.47	-28.46	Average	line1	
6	0.20	40.60	30.92	9.68	63.47	-22.87	QP	line1	
7	0.48	39.34	29.66	9.68	46.40	-7.06	Average	line1	
8	0.48	44.63	34.95	9.68	56.40	-11.77	QP	line1	
9	1.91	31.47	21.75	9.72	46.00	-14.53	Average	line1	
10	1.91	35.56	25.84	9.72	56.00	-20.44	QP	line1	
11	13.38	24.81	15.00	9.81	50.00	-25.19	Average	line1	
12	13.38	29.99	20.18	9.81	60.00	-30.01	QP	line1	



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Trace: 1

Line	Freq (MHz)	Level (dBuV)	Read Level (dBuV)	Factor (dB)	Limit Line (dBuV)	Over Limit (dB)	Remark	Pol/Phase	Note
1	0.15	32.99	23.32	9.67	55.79	-22.80	Average	neutral	
2	0.15	48.71	39.04	9.67	65.79	-17.08	QP	neutral	
3	0.17	27.36	17.70	9.66	54.80	-27.44	Average	neutral	
4	0.17	44.98	35.32	9.66	64.80	-19.82	QP	neutral	
5	0.20	23.23	13.57	9.66	53.56	-30.33	Average	neutral	
6	0.20	40.59	30.93	9.66	63.56	-22.97	QP	neutral	
7	0.47	40.23	30.57	9.66	46.44	-6.21	Average	neutral	
8	0.47	44.86	35.20	9.66	56.44	-11.58	QP	neutral	
9	0.90	27.90	18.24	9.66	46.00	-18.10	Average	neutral	
10	0.90	31.47	21.81	9.66	56.00	-24.53	QP	neutral	
11	13.38	23.60	13.77	9.83	50.00	-26.40	Average	neutral	
12	13.38	28.65	18.82	9.83	60.00	-31.35	QP	neutral	