

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

## Emission Test

<Adapter Mode>

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

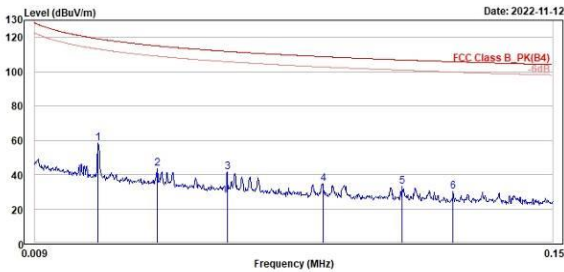
WiFi 5G 802.11ax HE20\_5785MHz + WiFi 2.4G 802.11ax HE20\_2437 MHz

9kHz~150kHz (Open)

150kHz~30MHz (Open)



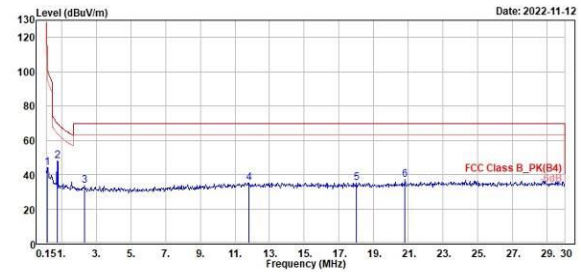
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.026	58.47	39.29	19.18	119.18	-69.71	100	43 QP	Open
2	0.042	43.55	24.16	19.39	115.87	-71.52	100	256 QP	Open
3	0.061	41.46	22.40	19.06	111.82	-79.36	100	90 QP	Open
4	0.088	34.53	16.05	18.48	108.75	-74.22	100	255 QP	Open
5	0.109	33.34	15.09	18.25	106.84	-73.59	100	251 QP	Open
6	0.123	30.28	11.98	18.30	105.80	-75.52	100	81 QP	Open



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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	0.210	44.00	25.40	18.60	101.17	-57.17	100	6 QP	Open
2	0.777	47.75	28.62	19.13	69.70	-21.95	100	306 QP	Open
3	2.329	33.60	14.16	19.44	69.50	-35.90	100	324 QP	Open
4	11.821	35.33	13.70	21.63	69.50	-34.17	100	260 QP	Open
5	18.000	35.06	13.00	22.06	69.50	-34.44	100	43 QP	Open
6	20.806	37.19	14.95	22.23	69.50	-32.31	100	119 QP	Open

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

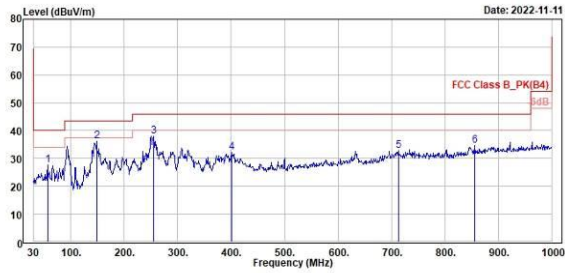
WiFi 5G 802.11ax HE20\_5785MHz + WiFi 2.4G 802.11ax HE20\_2437 MHz

Horizontal

Vertical



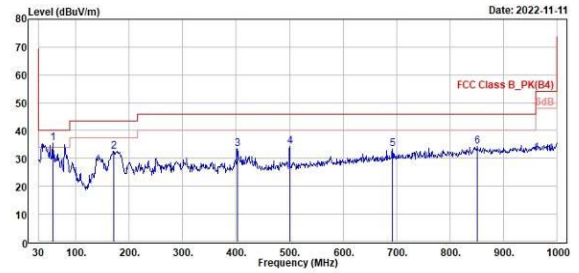
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Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
Level	Line	Limit					
Factor							
dB/m	dB/m	dB	cm	deg			
27.63	34.31	-6.68	48.00	-12.37	300	287 QP	Horizontal
36.09	42.25	-6.16	43.50	-7.41	200	265 QP	Horizontal
38.02	44.36	-6.34	46.00	-7.98	100	257 QP	Horizontal
32.31	35.25	-2.94	46.00	-13.69	100	152 QP	Horizontal
32.88	31.14	1.74	46.00	-13.12	201	33 QP	Horizontal
34.65	30.76	3.89	46.00	-11.35	100	52 QP	Horizontal



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Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
Level	Line	Limit					
Factor							
dB/m	dB/m	dB	cm	deg			
35.58	42.18	-6.68	48.00	-4.50	100	297 QP	Vertical
32.68	38.73	-6.13	43.50	-10.90	100	247 QP	Vertical
33.53	36.46	-2.93	46.00	-12.47	100	59 QP	Vertical
34.25	36.01	-1.76	46.00	-11.75	100	158 QP	Vertical
33.59	31.96	1.63	46.00	-12.41	174	44 QP	Vertical
34.29	30.53	3.76	46.00	-11.71	100	333 QP	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 40GHz

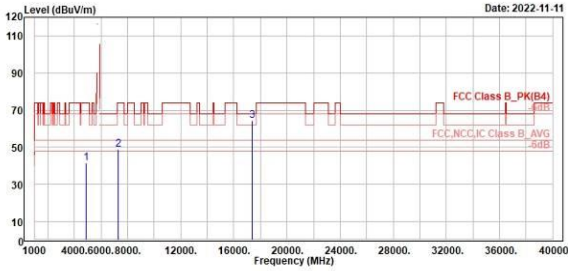
WiFi 5G 802.11ax HE20\_5785MHz + WiFi 2.4G 802.11ax HE20\_2437 MHz

(Horizontal) Peak

(Vertical) Peak



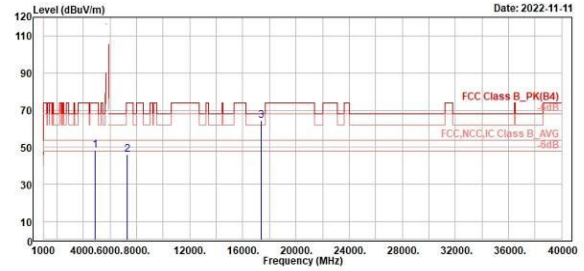
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1 4874.000	41.36	52.64	-11.28	74.00	-32.64	182	360 Peak	Horizontal	
2 7311.000	48.72	56.23	-7.51	74.00	-25.28	180	82 Peak	Horizontal	
3 117355.000	64.51	57.60	6.91	68.20	-3.69	300	360 Peak	Horizontal	



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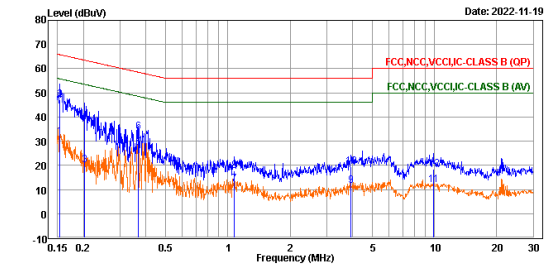
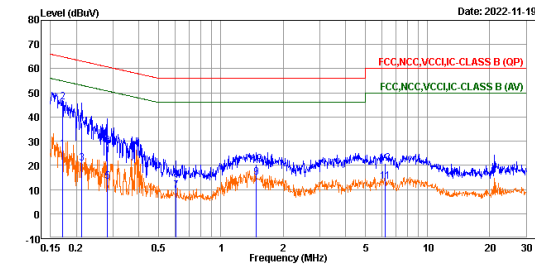
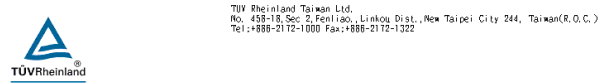
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1 4874.000	48.46	59.74	-11.28	74.00	-25.54	200	12 Peak	Vertical	
2 7311.000	45.93	53.44	-7.51	74.00	-28.07	200	312 Peak	Vertical	
3 117355.000	64.23	57.32	6.91	68.20	-3.97	180	335 Peak	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

Worst Band

(Line)

(Neutral)



Trace: 1

Line	Freq	Level	Read Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.17	26.75	17.06	9.69	54.88	-28.13	Average	line1	
2	0.17	45.96	36.27	9.69	64.88	-18.92	QP	line1	
3	0.21	20.77	11.09	9.68	53.10	-32.33	Average	line1	
4	0.21	37.71	28.03	9.68	63.10	-25.39	QP	line1	
5	0.28	13.27	3.59	9.68	50.78	-37.51	Average	line1	
6	0.28	27.96	18.28	9.68	60.78	-32.82	QP	line1	
7	0.61	9.36	-0.32	9.68	46.00	-36.64	Average	line1	
8	0.61	13.84	4.16	9.68	56.00	-42.16	QP	line1	
9	1.49	14.85	5.14	9.71	46.00	-31.15	Average	line1	
10	1.49	20.29	10.58	9.71	56.00	-35.71	QP	line1	
11	6.21	13.44	3.67	9.77	50.00	-36.56	Average	line1	
12	6.21	20.80	11.03	9.77	60.00	-39.20	QP	line1	

Trace: 1

Line	Freq	Level	Read Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	31.71	22.04	9.67	55.79	-24.08	Average	neutral	
2	0.15	47.16	37.49	9.67	65.79	-18.63	QP	neutral	
3	0.20	20.13	10.47	9.66	53.47	-33.34	Average	neutral	
4	0.20	38.15	28.49	9.66	63.47	-25.32	QP	neutral	
5	0.37	27.17	17.51	9.66	48.51	-21.34	Average	neutral	
6	0.37	33.85	24.19	9.66	58.51	-24.66	QP	neutral	
7	1.07	12.41	2.75	9.66	46.00	-33.59	Average	neutral	
8	1.07	17.58	7.92	9.66	56.00	-38.42	QP	neutral	
9	3.93	11.57	1.85	9.72	46.00	-34.43	Average	neutral	
10	3.93	19.47	9.75	9.72	56.00	-36.53	QP	neutral	
11	9.87	12.07	2.28	9.79	50.00	-37.93	Average	neutral	
12	9.87	18.52	8.73	9.79	60.00	-41.48	QP	neutral	

<POE Mode>

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

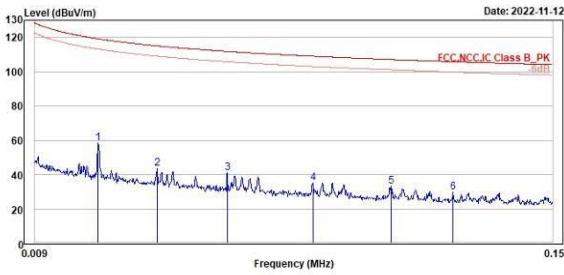
WiFi 5G 802.11ax HE20\_5785MHz + WiFi 2.4G 802.11ax HE20\_2437 MHz

9kHz~150kHz (Open)

150kHz~30MHz (Open)



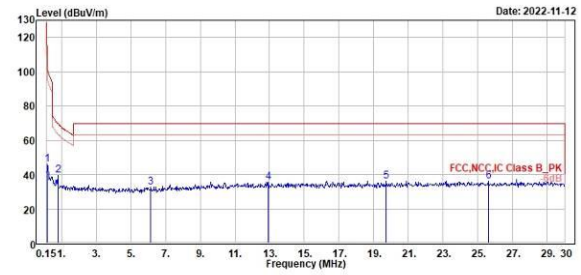
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.026	58.49	39.31	19.18	119.18	-68.69	100	57 QP	Open
2	0.042	43.26	23.87	19.39	115.87	-71.81	100	245 QP	Open
3	0.061	40.95	21.89	19.06	111.82	-78.87	100	45 QP	Open
4	0.085	35.16	16.62	18.54	109.02	-73.86	100	280 QP	Open
5	0.106	33.35	15.11	18.24	107.09	-73.74	100	280 QP	Open
6	0.123	29.62	11.32	18.30	105.80	-76.18	100	59 QP	Open



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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	0.210	45.78	27.18	18.60	101.17	-55.39	100	335 QP	Open
2	0.807	39.44	20.30	19.14	69.47	-38.83	100	25 QP	Open
3	6.150	32.81	12.97	19.84	69.50	-36.69	100	63 QP	Open
4	12.926	35.74	14.03	21.71	69.50	-33.76	100	52 QP	Open
5	19.732	36.31	14.13	22.18	69.50	-33.19	100	214 QP	Open
6	25.612	35.84	13.39	22.45	69.50	-33.66	100	368 QP	Open

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

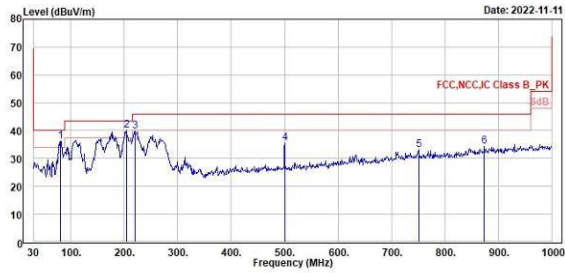
WiFi 5G 802.11ax HE20\_5785MHz + WiFi 2.4G 802.11ax HE20\_2437 MHz

Horizontal

Vertical



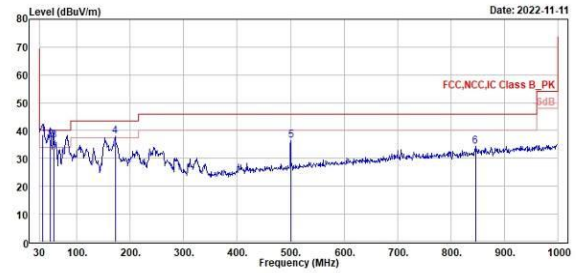
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Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note		
Level	Line	Limit							
Freq	Level	Level Factor	Limit	Over	APos	TPos	Remark		
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	80.440	36.09	46.56	-10.47	40.00	-3.91	400	130 QP	Horizontal
2	203.630	40.00	48.34	-8.26	43.50	-3.42	100	59 QP	Horizontal
3	220.120	39.91	47.93	-8.02	46.00	-6.09	100	165 QP	Horizontal
4	500.450	35.48	37.24	-1.76	46.00	-10.52	200	141 QP	Horizontal
5	750.710	33.31	30.66	2.65	46.00	-12.69	100	204 QP	Horizontal
6	873.900	34.43	30.28	4.15	46.00	-11.57	100	104 QP	Horizontal



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Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note		
Level	Line	Limit							
Freq	Level	Level Factor	Limit	Over	APos	TPos	Remark		
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	35.820	38.54	45.30	-6.76	40.00	-1.46	100	200 QP	Vertical
2	50.370	36.70	42.90	-6.12	40.00	-3.22	100	165 QP	Vertical
3	56.190	36.42	43.10	-6.68	40.00	-3.58	100	199 QP	Vertical
4	171.620	38.04	44.32	-6.28	43.50	-5.46	100	20 QP	Vertical
5	500.450	36.64	38.40	-1.76	46.00	-9.36	100	166 QP	Vertical
6	845.770	34.43	30.70	3.73	46.00	-11.57	200	239 QP	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 40GHz

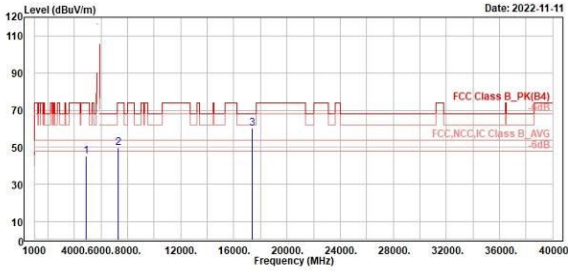
WiFi 5G 802.11ax HE20\_5785MHz + WiFi 2.4G 802.11ax HE20\_2437 MHz

(Horizontal) Peak

(Vertical) Peak



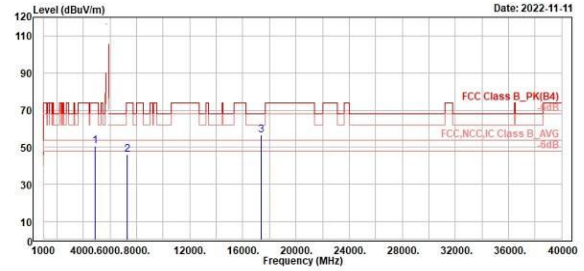
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4874.000	45.40	55.17	-9.77	74.00	-20.60	200	34 Peak	Horizontal
2	7311.000	49.71	57.22	-7.51	74.00	-24.29	100	21 Peak	Horizontal
3	17355.000	60.24	53.33	6.91	68.20	-7.96	100	85 Peak	Horizontal



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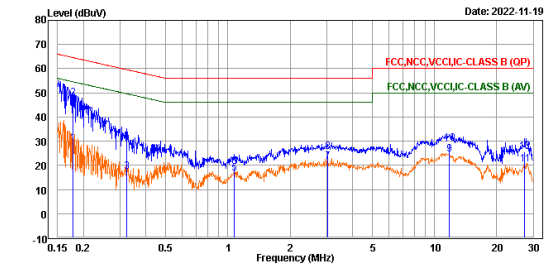
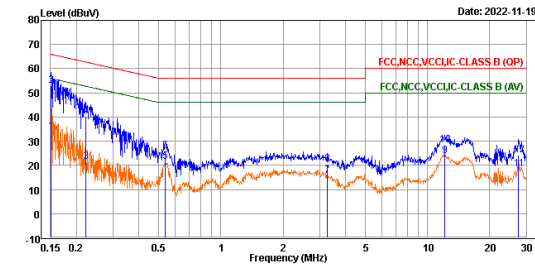
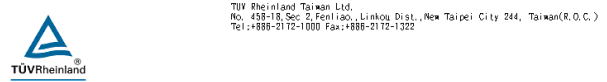
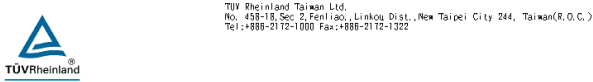
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4874.000	50.48	60.25	-9.77	74.00	-23.52	129	360 Peak	Vertical
2	7311.000	46.07	53.58	-7.51	74.00	-27.93	200	18 Peak	Vertical
3	17355.000	56.00	49.89	6.91	68.20	-11.40	100	335 Peak	Vertical

Mains Conducted Emission, 150kHz ~ 30MHz

Worst Band

(Line)

(Neutral)



Trace: 1

Line	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	Factor	Line	Limit			
		dBuV	dB	dBuV	dB			
1	0.15	33.86	24.17	9.69	55.96	-22.10	Average	line1
2	0.15	52.99	43.30	9.69	65.96	-12.97	QP	line1
3	0.22	21.43	11.75	9.68	52.73	-31.30	Average	line1
4	0.22	40.26	30.58	9.68	62.73	-22.47	QP	line1
5	0.54	21.34	11.66	9.68	46.00	-24.66	Average	line1
6	0.54	25.95	16.27	9.68	56.00	-30.05	QP	line1
7	3.26	15.80	6.06	9.74	46.00	-30.20	Average	line1
8	3.26	20.34	10.60	9.74	56.00	-35.66	QP	line1
9	12.11	23.72	13.91	9.81	50.00	-26.28	Average	line1
10	12.11	28.35	18.54	9.81	60.00	-31.65	QP	line1
11	27.56	18.42	8.65	9.77	50.00	-31.58	Average	line1
12	27.56	24.17	14.40	9.77	60.00	-35.83	QP	line1

Trace: 1

Line	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	Factor	Line	Limit			
		dBuV	dB	dBuV	dB			
1	0.18	28.04	19.28	9.66	54.59	-25.65	Average	neutral
2	0.18	47.80	38.14	9.66	64.59	-16.79	QP	neutral
3	0.32	17.28	7.63	9.65	49.58	-32.30	Average	neutral
4	0.32	29.53	19.88	9.65	59.58	-30.05	QP	neutral
5	1.07	16.84	7.18	9.66	46.00	-29.16	Average	neutral
6	1.07	19.59	9.93	9.66	56.00	-36.41	QP	neutral
7	3.03	21.51	11.80	9.71	46.00	-24.49	Average	neutral
8	3.03	25.43	15.72	9.71	56.00	-30.57	QP	neutral
9	11.81	24.41	14.60	9.81	50.00	-25.59	Average	neutral
10	11.81	28.89	19.08	9.81	60.00	-31.11	QP	neutral
11	27.29	20.29	10.41	9.88	50.00	-29.71	Average	neutral
12	27.29	25.46	15.58	9.88	60.00	-34.54	QP	neutral