

Appendix A: Test Results of Radiated Emissions

Band Edges, 2.31GHz ~ 2.9GHz

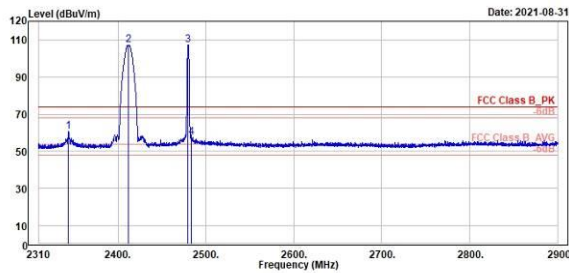
BT_8DPSK_2480 MHz + 802.11b_2412 MHz

(Horizontal) Peak

(Vertical) Peak



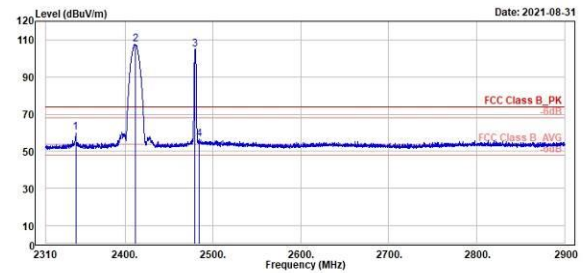
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2343.92	69.64	23.38	37.26	74.00	-13.36	333	10	Peak	Horizontal	
2 *	2412.00	107.33	69.61	37.72	74.00	33.33	100	299	Peak	Horizontal	
3 *	2480.00	107.20	69.05	38.15	74.00	33.20	105	55	Peak	Horizontal	
4	2483.50	57.47	19.31	38.16	74.00	-16.53	105	55	Peak	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2344.04	69.09	22.03	37.26	74.00	-13.91	357	104	Peak	Vertical	
2 *	2412.00	107.90	70.18	37.72	74.00	33.90	370	74	Peak	Vertical	
3 *	2480.00	105.13	66.90	38.15	74.00	31.13	366	63	Peak	Vertical	
4	2484.68	56.40	18.23	38.17	74.00	-17.60	366	63	Peak	Vertical	

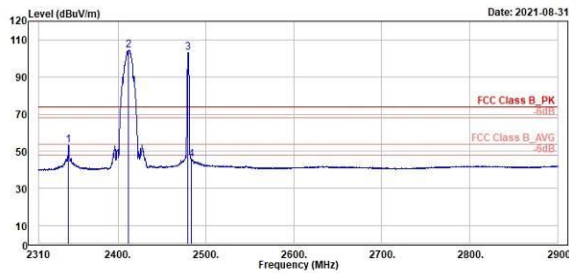
BT_8DPSK_2480 MHz + 802.11b_2412 MHz

(Horizontal) Average

(Vertical) Average



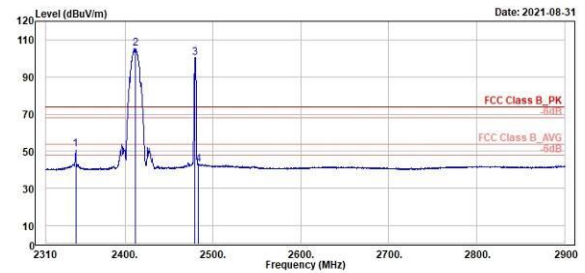
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2343.92	53.16	15.90	37.26	54.00	-0.84	333	10	Average	Horizontal	
2	2412.00	104.67	66.95	37.72	54.00	50.67	100	299	Average	Horizontal	
3	2480.00	102.97	64.82	38.15	54.00	48.97	105	55	Average	Horizontal	
4	2483.50	45.53	7.37	38.16	54.00	-8.47	105	55	Average	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2344.04	51.10	13.04	37.26	54.00	-2.90	367	104	Average	Vertical	
2	2412.00	105.22	67.50	37.72	54.00	51.22	378	74	Average	Vertical	
3	2480.00	100.51	62.36	38.15	54.00	46.51	366	63	Average	Vertical	
4	2483.50	43.02	4.86	38.16	54.00	-10.98	366	63	Average	Vertical	

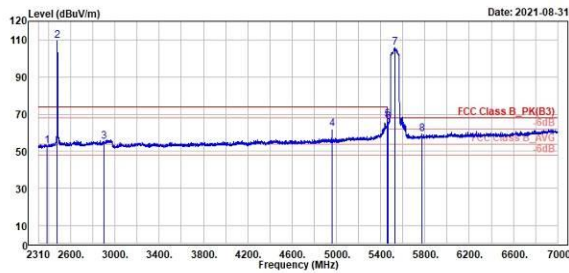
BT_8DPSK_2480 MHz + 802.11ac_5530 MHz

(Horizonta) Peak

High Channel (Vertical) Peak



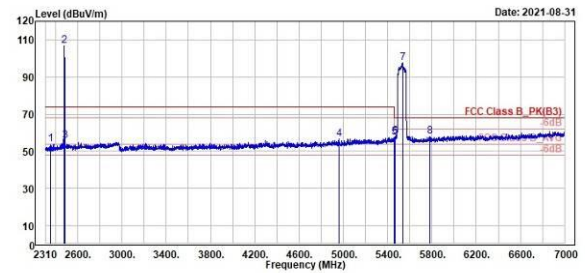
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2382.10	53.07	15.57	37.50	74.00	-20.93	102	53	Peak	Horizontal		
2 *	2480.00	109.46	71.31	38.15	74.00	35.46	102	53	Peak	Horizontal		
3	2899.88	55.03	16.41	38.62	74.00	-18.97	102	53	Peak	Horizontal		
4	4960.00	62.11	19.67	42.44	74.00	-11.89	135	65	Peak	Horizontal		
5	5458.83	67.19	23.61	43.58	74.00	-6.81	125	281	Peak	Horizontal		
6 †	5470.06	65.85	22.24	43.61	68.20	-2.35	125	281	Peak	Horizontal		
7 *	5530.00	105.76	62.22	43.54	68.20	37.56	109	297	Peak	Horizontal		
8	5772.49	59.44	15.71	43.73	68.20	-8.76	109	297	Peak	Horizontal		



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2352.13	53.70	16.41	37.29	74.00	-20.30	360	125	Peak	Vertical		
2 *	2480.00	100.73	68.58	38.15	74.00	32.73	360	125	Peak	Vertical		
3	2484.16	55.76	17.59	38.17	74.00	-18.24	360	125	Peak	Vertical		
4	4960.00	56.52	14.08	42.44	74.00	-17.48	360	125	Peak	Vertical		
5	5456.95	57.49	13.92	43.57	74.00	-16.51	374	18	Peak	Vertical		
6	5469.13	57.91	14.30	43.61	68.20	-10.29	374	18	Peak	Vertical		
7 *	5530.00	97.55	54.04	43.51	68.20	29.35	374	18	Peak	Vertical		
8	5779.98	58.07	14.34	43.73	68.20	-10.13	374	18	Peak	Vertical		

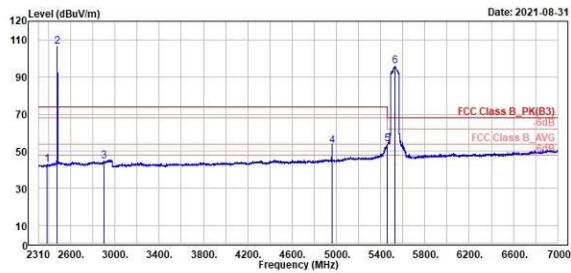
BT_8DPSK_2480 MHz + 802.11ac_5530 MHz

(Horizontal) Average

(Vertical) Average



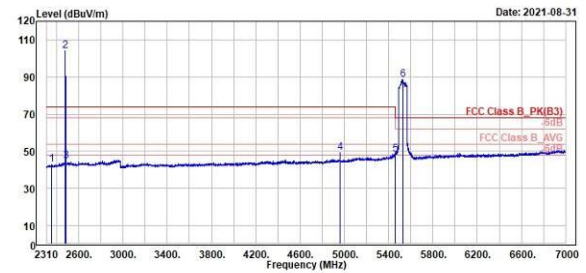
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2382.10	42.99	5.49	37.50	54.00	-11.01	102	53 Average	Horizontal	
2 *	2480.00	106.41	68.26	38.15	54.00	52.41	102	53 Average	Horizontal	
3	2899.88	44.51	5.89	38.62	54.00	-9.49	102	53 Average	Horizontal	
4 !	4960.00	52.90	10.46	42.44	54.00	-1.10	135	65 Average	Horizontal	
5 !	5458.83	53.62	10.04	43.58	54.00	-0.38	125	281 Average	Horizontal	
6 *	5530.00	95.62	52.08	43.54	54.00	41.62	109	297 Average	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2352.13	42.67	5.38	37.29	54.00	-11.33	360	125 Average	Vertical	
2 *	2480.00	104.07	65.92	38.15	54.00	50.07	360	125 Average	Vertical	
3	2484.16	44.57	6.40	38.17	54.00	-9.43	360	125 Average	Vertical	
4 !	4960.00	49.09	6.65	42.44	54.00	-4.91	360	125 Average	Vertical	
5 !	5456.95	48.58	5.01	43.57	54.00	-5.42	373	18 Average	Vertical	
6 *	5530.00	88.68	45.14	43.54	54.00	34.68	374	18 Average	Vertical	

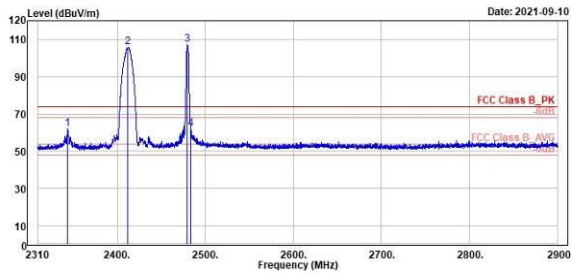
BLE_2M_2480 MHz + 802.11b_2412 MHz

(Horizontal) Peak

(Vertical) Peak



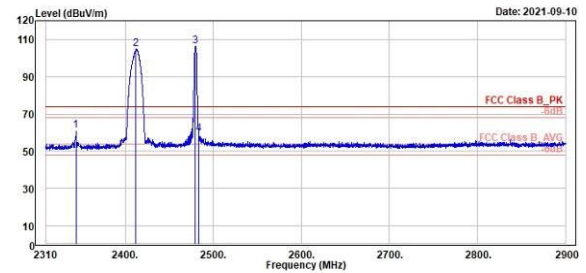
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Fenglin, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2343.45	62.11	24.85	37.26	74.00	-11.89	100	48	Peak	Horizontal	
2 *	2412.00	105.00	68.00	37.72	74.00	31.00	172	56	Peak	Horizontal	
3 *	2480.00	107.02	68.87	38.15	74.00	33.02	100	48	Peak	Horizontal	
4	2483.50	61.91	23.75	38.16	74.00	-12.09	198	189	Peak	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Fenglin, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2344.04	61.05	23.79	37.26	74.00	-12.95	348	260	Peak	Vertical	
2 *	2412.00	104.72	67.00	37.72	74.00	30.72	287	245	Peak	Vertical	
3 *	2480.00	106.23	68.00	38.15	74.00	32.23	330	71	Peak	Vertical	
4	2483.50	59.41	21.25	38.16	74.00	-14.59	330	71	Peak	Vertical	

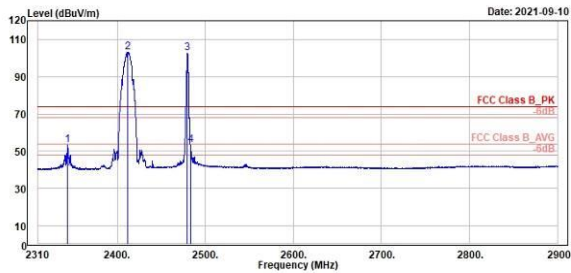
BLE_2M_2480 MHz + 802.11b_2412 MHz

(Horizontal) Average

(Vertical) Average



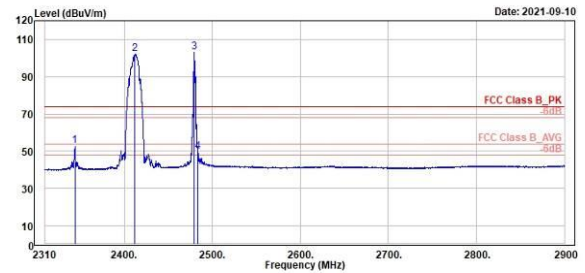
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Fenglin, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 !	2343.81	53.48	16.22	37.26	54.00	-0.52	100	48	Average	Horizontal	
2 *	2412.00	103.51	65.59	37.72	54.00	49.31	172	56	Average	Horizontal	
3 *	2480.00	102.58	64.43	38.15	54.00	48.58	100	48	Average	Horizontal	
4 !	2483.50	53.48	15.32	38.16	54.00	-0.52	198	189	Average	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Fenglin, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1 !	2344.04	52.91	15.65	37.26	54.00	-1.09	348	260	Average	Vertical	
2 *	2412.00	102.05	64.33	37.72	54.00	48.05	287	245	Average	Vertical	
3 *	2480.00	103.14	64.99	38.15	54.00	49.14	330	71	Average	Vertical	
4 !	2483.50	49.56	11.40	38.16	54.00	-4.44	330	71	Average	Vertical	

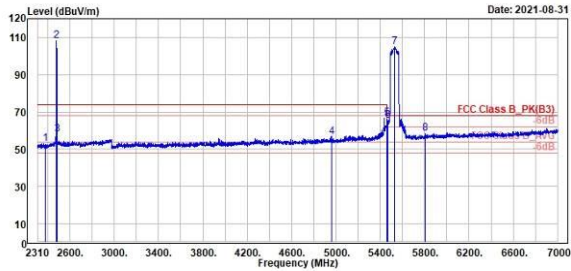
BLE_2M_2480 MHz + 802.11ac_5530 MHz

(Horizontal) Peak

(Vertical) Peak



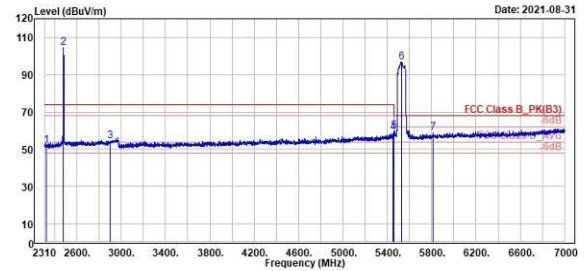
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenglin, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2377.42	53.07	15.60	37.47	74.00	-20.93	102			53 Peak	Horizontal	
2 *	2480.00	108.01	69.06	38.15	74.00	34.01	102			53 Peak	Horizontal	
3	2484.16	57.75	19.58	38.17	74.00	-16.25	102			53 Peak	Horizontal	
4	4959.77	56.65	14.21	42.44	74.00	-17.35	109			297 Peak	Horizontal	
5	5458.83	66.42	22.84	43.58	74.00	-7.58	109			297 Peak	Horizontal	
6	5469.13	65.20	21.59	43.61	68.20	-3.00	109			297 Peak	Horizontal	
7 *	5530.00	104.93	61.39	43.54	68.20	36.73	109			297 Peak	Horizontal	
8	5803.39	58.52	14.76	43.76	68.20	-9.68	109			297 Peak	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenglin, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2323.11	52.10	14.81	37.19	74.00	-21.90	366			63 Peak	Vertical	
2 *	2480.00	104.35	66.20	38.15	74.00	30.35	366			63 Peak	Vertical	
3	2899.88	54.21	15.59	38.62	74.00	-19.79	366			63 Peak	Vertical	
4	5454.15	58.68	15.11	43.57	74.00	-15.32	374			18 Peak	Vertical	
5	5468.70	59.99	16.41	43.58	68.20	-8.21	374			18 Peak	Vertical	
6 *	5530.00	96.82	53.28	43.54	68.20	28.62	374			18 Peak	Vertical	
7	5811.82	58.88	15.10	43.78	68.20	-9.32	374			18 Peak	Vertical	

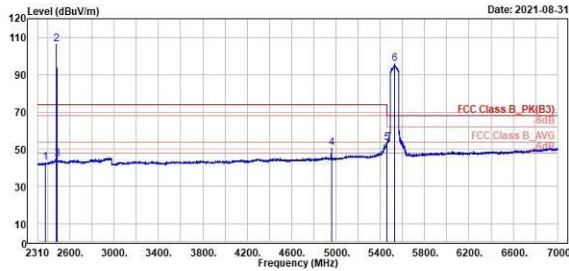
BLE_2M_2480 MHz + 802.11ac_5530 MHz

(Horizontal) Average

(Vertical) Average



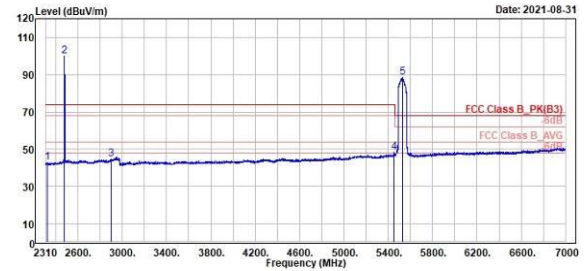
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenglin Rd., Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2377.42	42.75	5.28	37.47	54.00	-11.25	102	53 Average	Horizontal	
2 *	2480.00	106.12	67.97	38.15	54.00	52.12	102	53 Average	Horizontal	
3	2484.16	44.66	6.49	38.17	54.00	-9.34	102	53 Average	Horizontal	
4 !	4960.00	50.73	8.29	42.44	54.00	-3.27	109	297 Average	Horizontal	
5 !	5458.83	53.48	9.90	43.58	54.00	-0.52	109	297 Average	Horizontal	
6 *	5530.00	95.75	52.21	43.54	54.00	41.75	109	297 Average	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenglin Rd., Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2323.11	42.72	5.53	37.19	54.00	-11.28	366	63 Average	Vertical	
2 *	2480.00	99.75	61.58	38.15	54.00	45.73	366	63 Average	Vertical	
3	2899.88	44.60	5.98	38.62	54.00	-9.40	366	63 Average	Vertical	
4 !	5454.15	48.48	4.91	43.57	54.00	-5.52	374	18 Average	Vertical	
5 *	5526.24	88.59	45.03	43.56	54.00	34.59	374	18 Average	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

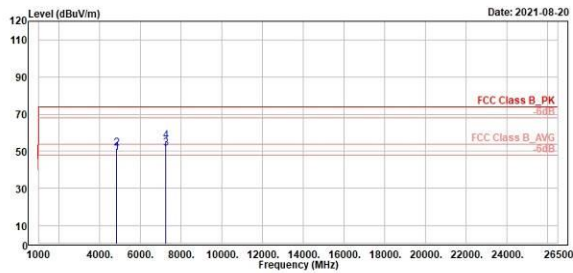
BT_8DPSK_2480 MHz + 802.11b_2412 MHz

Horizontal

Vertical



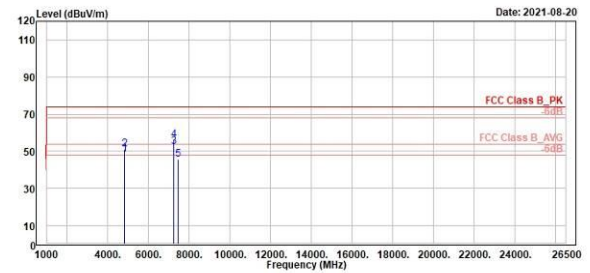
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4824.00	49.24	59.00	-9.76	54.00	-4.76	121	308	Average	Horizontal	
2	4824.00	51.51	61.27	-9.76	74.00	-22.49	121	308	Peak	Horizontal	
3	7236.00	51.64	58.94	-7.30	74.67	-23.03	100	82	Average	Horizontal	
4	7236.00	55.46	62.76	-7.30	77.33	-21.87	100	82	Peak	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4824.00	48.52	58.28	-9.76	54.00	-5.48	350	265	Average	Vertical	
2	4824.00	51.08	60.84	-9.76	74.00	-22.92	350	265	Peak	Vertical	
3	7236.00	52.43	59.73	-7.30	75.22	-22.79	297	106	Average	Vertical	
4	7236.00	56.15	63.45	-7.30	77.90	-21.75	297	106	Peak	Vertical	
5	7440.00	45.45	52.70	-7.25	74.00	-28.55	100	255	Peak	Vertical	

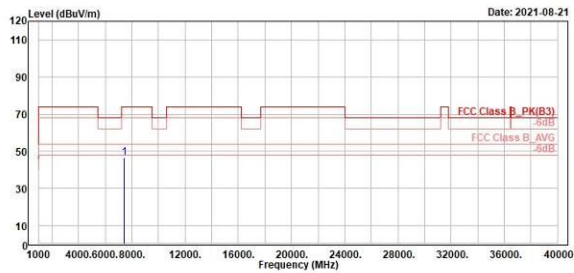
BT_8DPSK_2480 MHz + 802.11ac_5530 MHz

Horizontal

Vertical



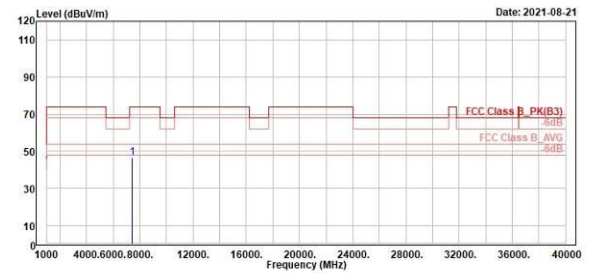
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 7440.00	46.53	53.78	-7.25	74.00	-27.47	300	65	Peak	Horizontal		



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 7440.00	46.44	53.69	-7.25	74.00	-27.56	400	92	Peak	Vertical		

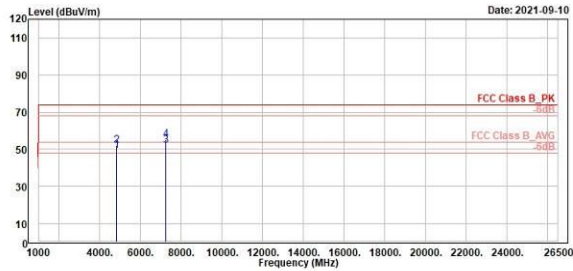
BLE_2M_2480 MHz + 802.11b_2412 MHz

Horizontal

Vertical



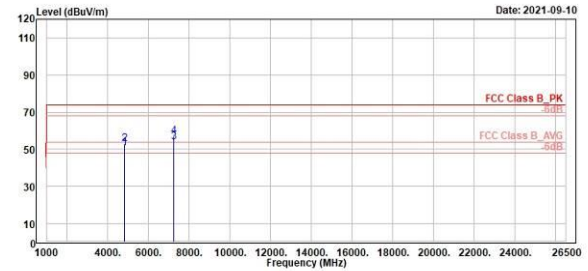
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4824.00	49.23	58.99	-9.76	54.00	-4.77	187	232	Average	Horizontal	
2	4824.00	52.07	61.83	-9.76	74.00	-21.93	187	232	Peak	Horizontal	
3	7236.00	51.96	59.26	-7.30	73.31	-21.35	232	43	Average	Horizontal	
4	7236.00	55.40	62.70	-7.30	75.80	-20.40	232	43	Peak	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4824.00	50.80	60.56	-9.76	54.00	-3.20	280	256	Average	Vertical	
2	4824.00	53.01	62.77	-9.76	74.00	-20.99	280	256	Peak	Vertical	
3	7236.00	53.98	61.28	-7.30	72.05	-18.07	249	69	Average	Vertical	
4	7236.00	57.22	64.52	-7.30	74.72	-17.50	249	69	Peak	Vertical	

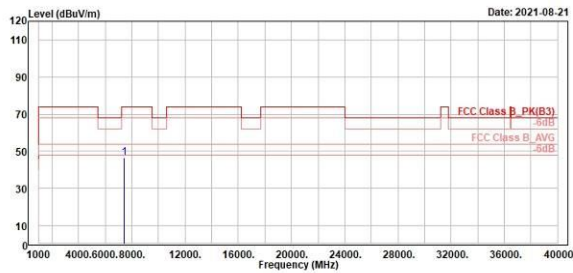
BLE_2M_2480 MHz + 802.11ac_5530 MHz

Horizontal

Vertical



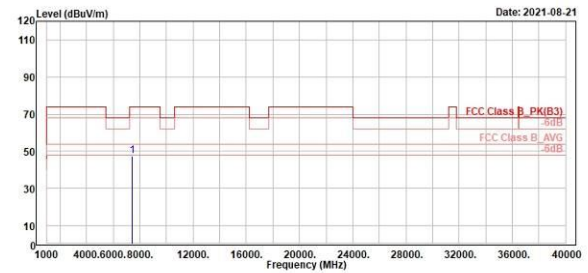
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7440.00	46.72	53.97	-7.25	74.00	-27.28	100	173	Peak	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7440.00	47.39	54.64	-7.25	74.00	-26.61	100	343	Peak	Vertical	