

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test for PCB Antenna

ECC Mode

Band Edges, 2.31GHz ~ 2.9GHz

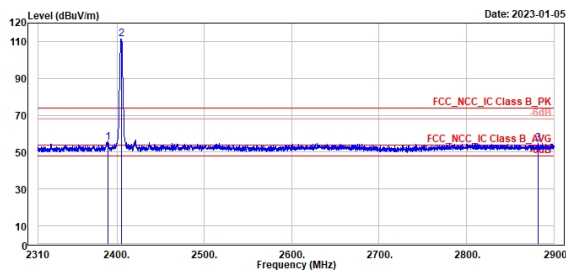
Zigbee_250kHz

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



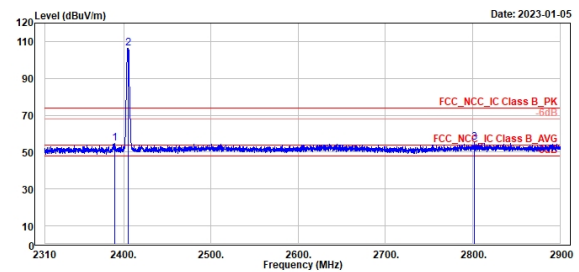
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2390.00	55.17	17.25	37.92	74.00	-18.83	126	160	Peak	Horizontal		
2 *	2405.00	111.39	73.44	37.95	74.00	37.39	126	160	Peak	Horizontal		
3	2882.30	54.79	16.06	38.73	74.00	-19.21	126	160	Peak	Horizontal		



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	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	2390.00	54.78	16.86	37.92	74.00	-19.22	400	161	Peak	Vertical		
2 *	2405.00	106.48	68.53	37.95	74.00	32.48	400	161	Peak	Vertical		
3	2802.06	55.42	16.84	38.58	74.00	-18.58	400	161	Peak	Vertical		

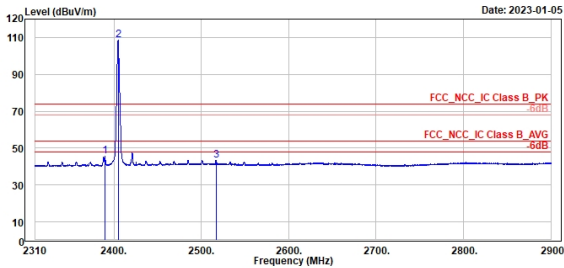
Zigbee_250kHz

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



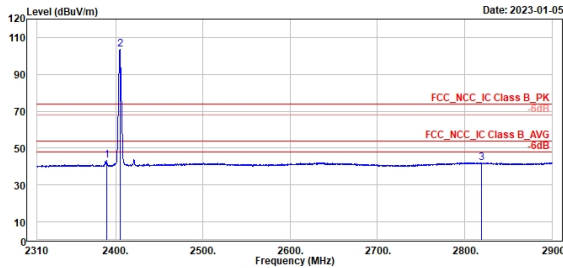
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.77	45.73	7.81	37.92	54.00	-8.27	126	160	Average	Horizontal		
2 *	2405.00	108.44	70.49	37.95	54.00	54.44	126	160	Average	Horizontal		
3	2517.09	43.50	5.22	38.28	54.00	-10.50	126	160	Average	Horizontal		



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	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	2389.77	43.25	5.33	37.92	54.00	-10.75	400	161	Average	Vertical		
2 *	2404.99	103.48	65.53	37.95	54.00	49.48	400	161	Average	Vertical		
3	2819.05	42.19	3.59	38.60	54.00	-11.81	400	161	Average	Vertical		

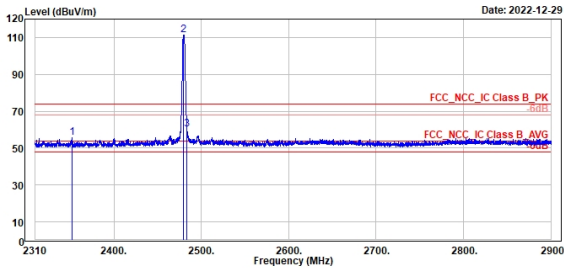
Zigbee _250kHz

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



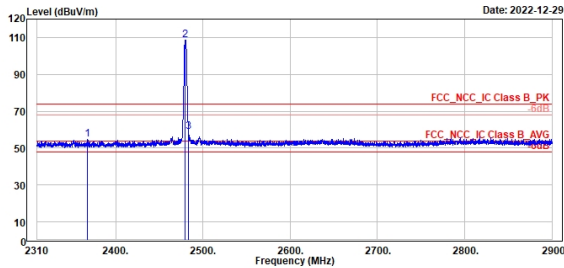
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.89	55.64	17.68	37.96	74.00	-18.36	206	148	Peak	Horizontal		
2 *	2480.00	111.39	73.08	38.31	74.00	37.39	206	148	Peak	Horizontal		
3	2483.46	60.38	22.07	38.31	74.00	-13.62	206	148	Peak	Horizontal		



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	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	2367.94	54.69	16.75	37.94	74.00	-19.31	324	189	Peak	Vertical		
2 *	2480.00	108.42	70.11	38.31	74.00	34.42	324	189	Peak	Vertical		
3	2483.58	58.82	20.51	38.31	74.00	-15.18	324	189	Peak	Vertical		

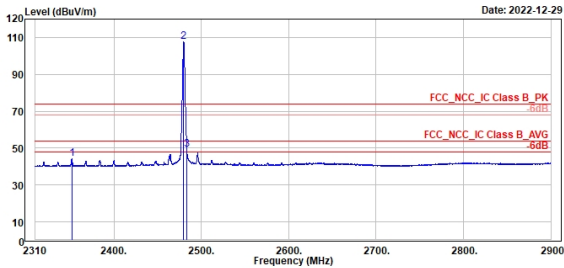
Zigbee _250kHz

High Channel (Horizontal) Average

High Channel (Vertical) Average



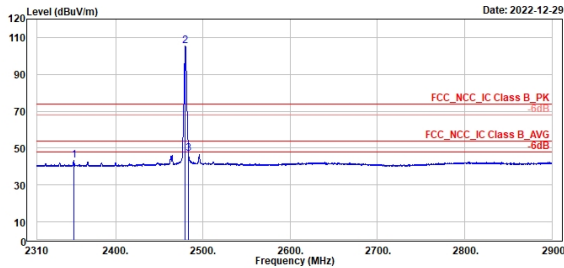
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.89	44.18	6.22	37.96	54.00	-9.82	206	148	Average	Horizontal		
2 *	2480.00	107.46	69.15	38.31	54.00	53.46	206	148	Average	Horizontal		
3 !	2483.46	49.09	10.78	38.31	54.00	-4.91	206	148	Average	Horizontal		



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	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	2351.89	43.31	5.35	37.96	54.00	-10.69	324	189	Average	Vertical		
2 *	2480.00	105.38	67.07	38.31	54.00	51.38	324	189	Average	Vertical		
3	2483.46	47.05	8.74	38.31	54.00	-6.95	324	189	Average	Vertical		

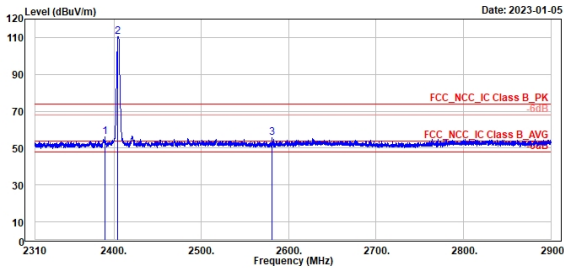
Zigbee_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



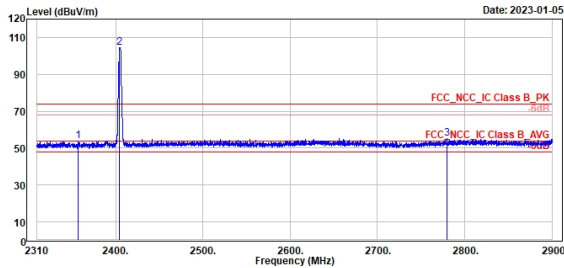
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.65	56.22	18.30	37.92	74.00	-17.78		121	154	Peak	Horizontal	
2 *	2404.00	110.34	72.40	37.94	74.00	36.34		121	154	Peak	Horizontal	
3	2580.69	55.50	17.16	38.34	74.00	-18.50		121	154	Peak	Horizontal	



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	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	2357.44	53.80	15.85	37.95	74.00	-20.20		100	158	Peak	Vertical	
2 *	2404.00	104.68	66.74	37.94	74.00	30.68		100	158	Peak	Vertical	
3	2779.76	55.38	16.99	38.39	74.00	-18.62		100	158	Peak	Vertical	

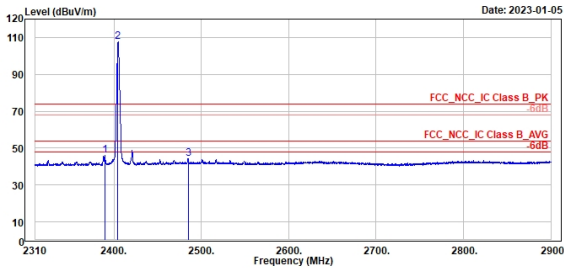
Zigbee_1M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



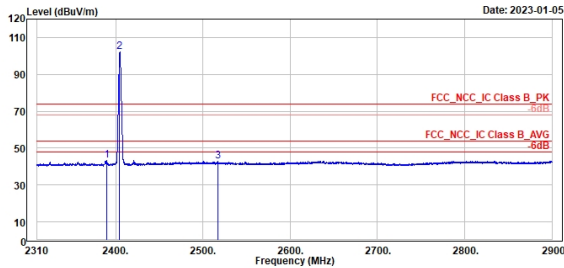
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.89	46.21	8.29	37.92	54.00	-7.79	121	154	Average	Horizontal		
2 *	2404.00	107.00	69.86	37.94	54.00	53.80	121	154	Average	Horizontal		
3	2485.23	44.30	5.99	38.31	54.00	-9.70	121	154	Average	Horizontal		



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	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	2389.53	43.33	5.41	37.92	54.00	-10.67	100	158	Average	Vertical		
2 *	2404.00	102.10	64.16	37.94	54.00	48.10	100	158	Average	Vertical		
3	2517.33	43.05	4.77	38.28	54.00	-10.95	100	158	Average	Vertical		

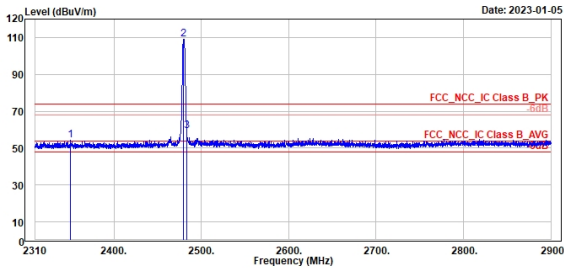
Zigbee _1M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



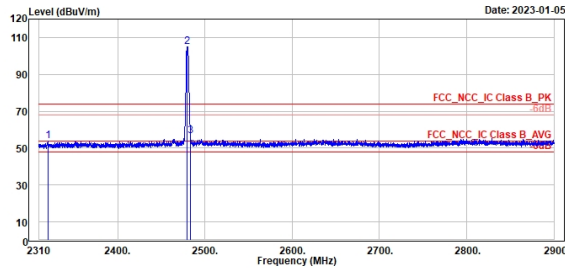
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2358.00	54.47	16.51	37.96	74.00	-19.53	320	291	Peak	Horizontal		
2 *	2480.00	108.95	70.64	38.31	74.00	34.95	320	291	Peak	Horizontal		
3	2483.46	59.40	21.09	38.31	74.00	-14.60	320	291	Peak	Horizontal		



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	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	2320.74	53.73	16.04	37.69	74.00	-20.27	368	171	Peak	Vertical		
2 *	2480.00	104.92	66.61	38.31	74.00	30.92	368	171	Peak	Vertical		
3	2483.46	56.49	18.18	38.31	74.00	-17.51	368	171	Peak	Vertical		

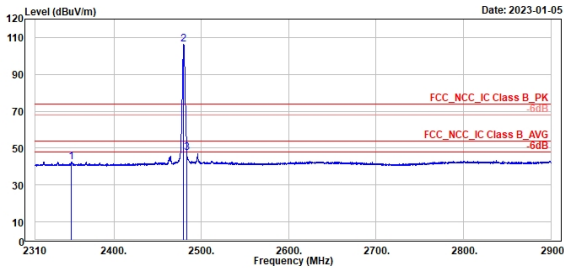
Zigbee _1M

High Channel (Horizontal) Average

High Channel (Vertical) Average



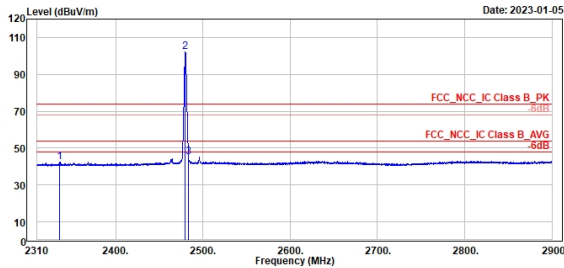
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.65	42.56	4.60	37.96	54.00	-11.44	320	291	Average	Horizontal		
2 *	2480.00	106.34	68.03	38.31	54.00	52.34	320	291	Average	Horizontal		
3	2483.46	47.53	9.22	38.31	54.00	-6.47	320	291	Average	Horizontal		



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	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	2335.72	42.55	4.72	37.83	54.00	-11.45	368	171	Average	Vertical		
2 *	2480.00	102.31	64.00	38.31	54.00	48.31	368	171	Average	Vertical		
3	2483.46	45.15	6.84	38.31	54.00	-8.85	368	171	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

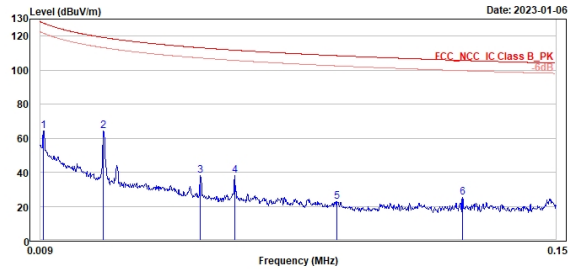
Zigbee_1M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



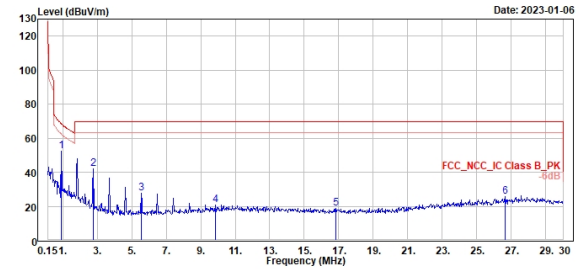
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	0.01	64.37	35.53	28.84	127.72	-63.35	100	22	QP	Open		
2	0.03	64.28	41.73	22.55	119.18	-54.90	100	35	QP	Open		
3	0.05	38.23	22.21	16.02	113.13	-74.90	100	68	QP	Open		
4	0.06	37.92	23.19	14.73	111.72	-73.80	100	213	QP	Open		
5	0.09	22.89	12.01	10.88	106.50	-85.61	100	178	QP	Open		
6	0.12	25.18	16.66	8.52	105.70	-80.52	100	224	QP	Open		



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	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	0.93	52.46	58.58	-6.12	68.27	-15.81	100	146	QP	Open		
2	2.78	41.99	52.45	-10.46	69.50	-27.51	100	146	QP	Open		
3	5.55	27.51	39.17	-11.66	69.50	-41.99	100	240	QP	Open		
4	9.85	20.78	30.92	-10.14	69.50	-48.72	100	56	QP	Open		
5	16.84	18.54	29.39	-10.85	69.50	-50.96	100	155	QP	Open		
6	26.63	25.89	33.88	-7.99	69.50	-43.61	100	224	QP	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

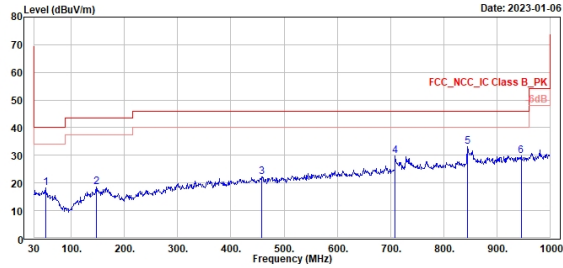
Zigbee_1M

High Channel (Horizontal)

High Channel (Vertical)



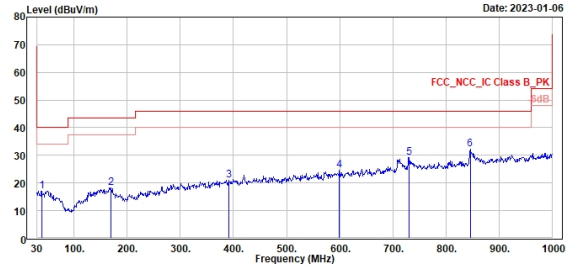
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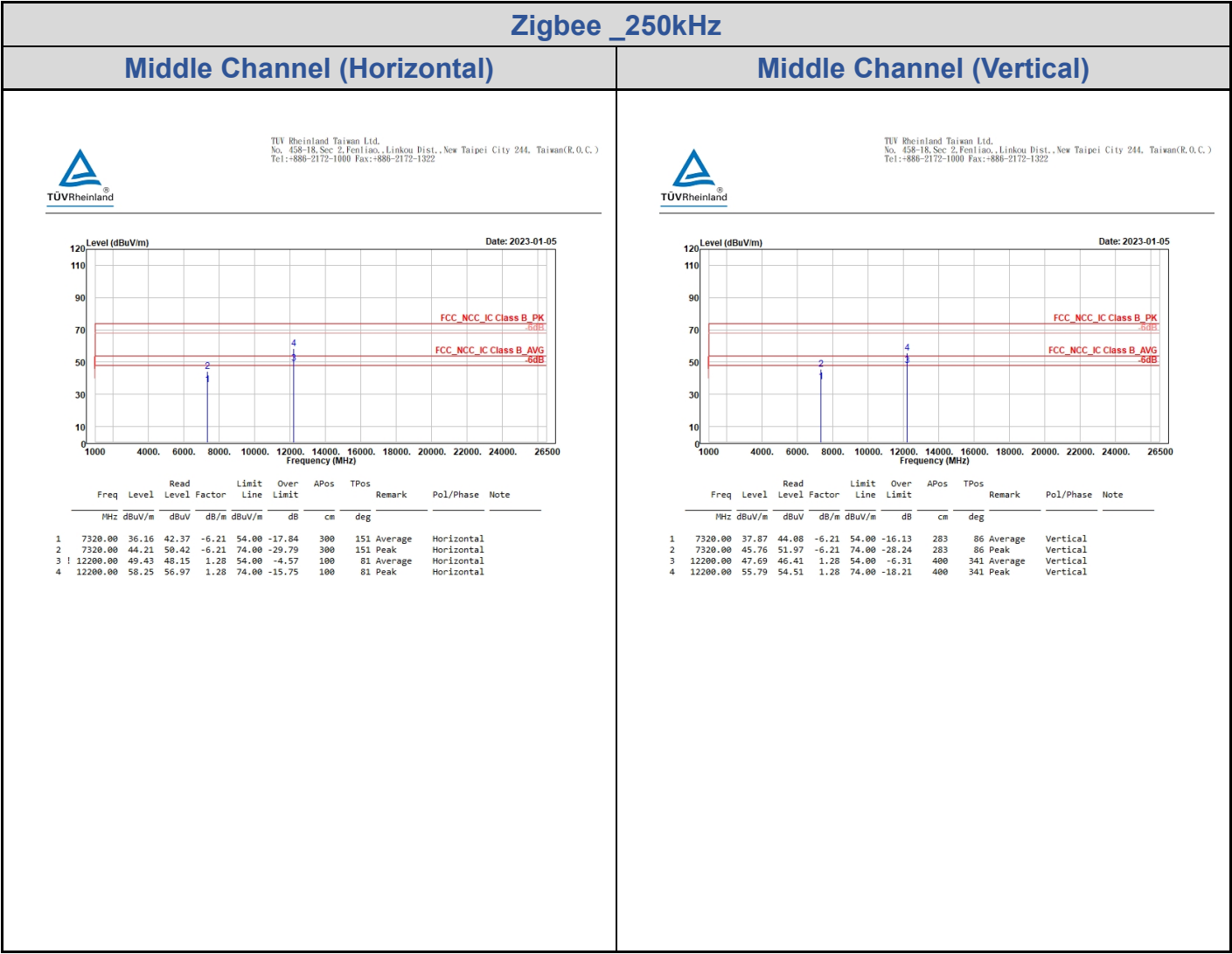
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	51.34	18.22	24.23	-6.01	40.00	-21.78	200	345	QP		Horizontal	
2	146.40	18.52	24.45	-5.93	43.50	-24.98	329	5	QP		Horizontal	
3	457.77	22.29	24.24	-1.95	46.00	-23.71	300	160	QP		Horizontal	
4	709.00	29.68	27.86	1.82	46.00	-16.32	300	22	QP		Horizontal	
5	844.80	33.26	29.23	4.03	46.00	-12.74	300	77	QP		Horizontal	
6	945.68	29.89	24.52	5.37	46.00	-16.11	200	120	QP		Horizontal	



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	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	38.73	17.04	23.51	-6.47	40.00	-22.96	197	360	QP		Vertical	
2	168.71	18.30	24.26	-5.96	43.50	-25.20	100	57	QP		Vertical	
3	390.84	21.00	23.99	-2.99	46.00	-25.00	200	137	QP		Vertical	
4	599.39	24.51	24.22	0.29	46.00	-21.49	100	359	QP		Vertical	
5	731.31	29.33	27.19	2.14	46.00	-16.67	200	360	QP		Vertical	
6	845.77	32.10	28.07	4.03	46.00	-13.90	100	54	QP		Vertical	



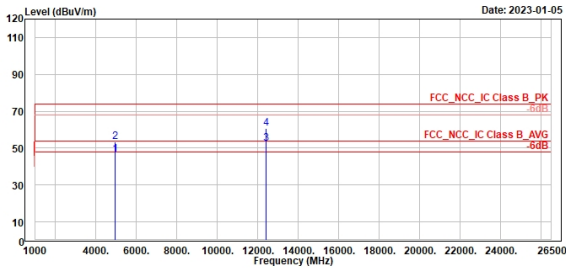
Zigbee _250kHz

High Channel (Horizontal)

High Channel (Vertical)



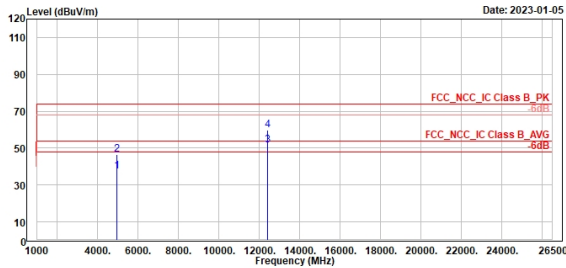
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4968.00	46.35	54.74	-8.39	54.00	-7.65	300	360	Average	Horizontal		
2	4968.00	53.61	62.00	-8.39	74.00	-20.39	300	360	Peak	Horizontal		
3	12400.00	52.54	50.96	1.58	54.00	-1.46	100	76	Average	Horizontal		
4	12400.00	60.71	59.13	1.58	74.00	-13.29	100	76	Peak	Horizontal		



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	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	4968.00	37.61	46.00	-8.39	54.00	-16.39	100	181	Average	Vertical		
2	4968.00	46.56	54.95	-8.39	74.00	-27.44	100	181	Peak	Vertical		
3	12400.00	51.62	50.04	1.58	54.00	-2.38	400	197	Average	Vertical		
4	12400.00	59.99	58.41	1.58	74.00	-14.01	400	197	Peak	Vertical		

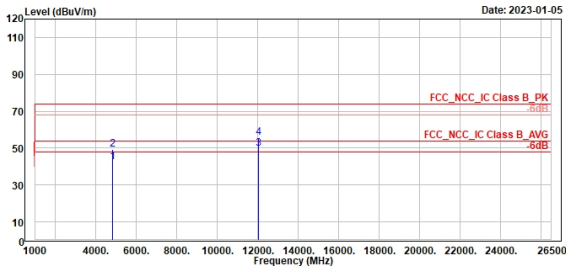
Zigbee _1M

Low Channel (Horizontal)

Low Channel (Vertical)



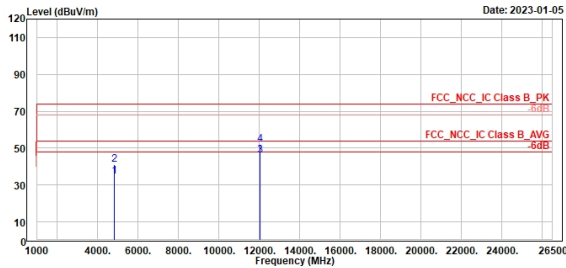
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4810.00	42.61	51.13	-8.52	54.00	-11.39	300	358	Average	Horizontal		
2	4810.00	49.44	57.96	-8.52	74.00	-24.56	300	358	Peak	Horizontal		
3	12025.00	49.60	48.68	0.92	54.00	-4.40	100	74	Average	Horizontal		
4	12025.00	55.66	54.74	0.92	74.00	-18.34	100	74	Peak	Horizontal		



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	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	4810.00	34.75	43.27	-8.52	54.00	-19.25	400	221	Average	Vertical		
2	4810.00	40.85	49.37	-8.52	74.00	-33.15	400	221	Peak	Vertical		
3	12025.00	45.94	45.02	0.92	54.00	-8.06	400	81	Average	Vertical		
4	12025.00	52.01	51.09	0.92	74.00	-21.99	400	81	Peak	Vertical		

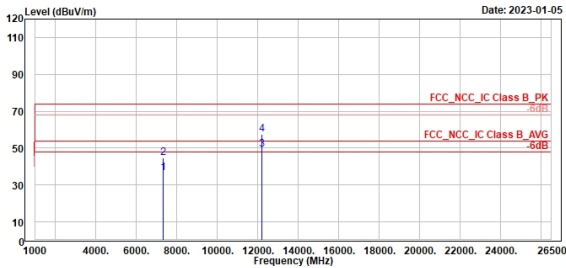
Zigbee _1M

Middle Channel (Horizontal)

Middle Channel (Vertical)



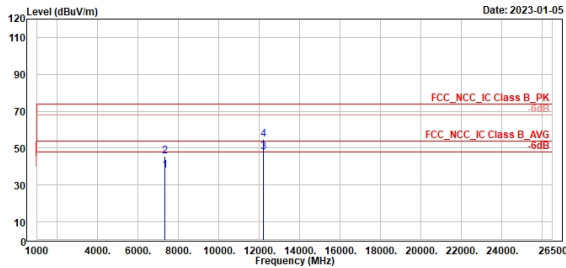
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7320.00	36.59	42.80	-6.21	54.00	-17.41	300	191	Average	Horizontal		
2	7320.00	44.82	51.03	-6.21	74.00	-29.18	300	191	Peak	Horizontal		
3	12200.00	49.25	47.97	1.28	54.00	-4.75	100	70	Average	Horizontal		
4	12200.00	57.62	56.34	1.28	74.00	-16.38	100	70	Peak	Horizontal		



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	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	7320.00	38.08	44.29	-6.21	54.00	-15.92	300	222	Average	Vertical		
2	7320.00	45.79	52.00	-6.21	74.00	-28.21	300	222	Peak	Vertical		
3	12200.00	48.12	46.84	1.28	54.00	-5.88	300	158	Average	Vertical		
4	12200.00	54.89	53.61	1.28	74.00	-19.11	300	158	Peak	Vertical		

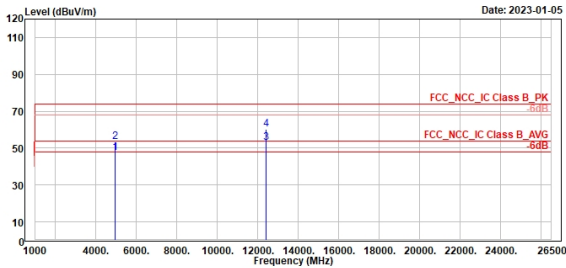
Zigbee _1M

High Channel (Horizontal)

High Channel (Vertical)



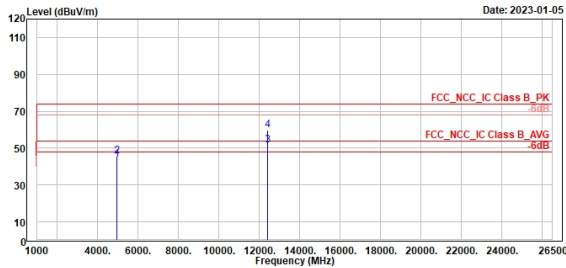
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	47.47	55.86	-8.39	54.00	-6.53	300	360	Average	Horizontal		
2	4960.00	53.16	61.55	-8.39	54.00	-0.84	300	360	Peak	Horizontal		
3	12400.00	52.93	51.35	1.58	54.00	-1.07	100	76	Average	Horizontal		
4	12400.00	60.11	58.53	1.58	54.00	-13.89	100	76	Peak	Horizontal		

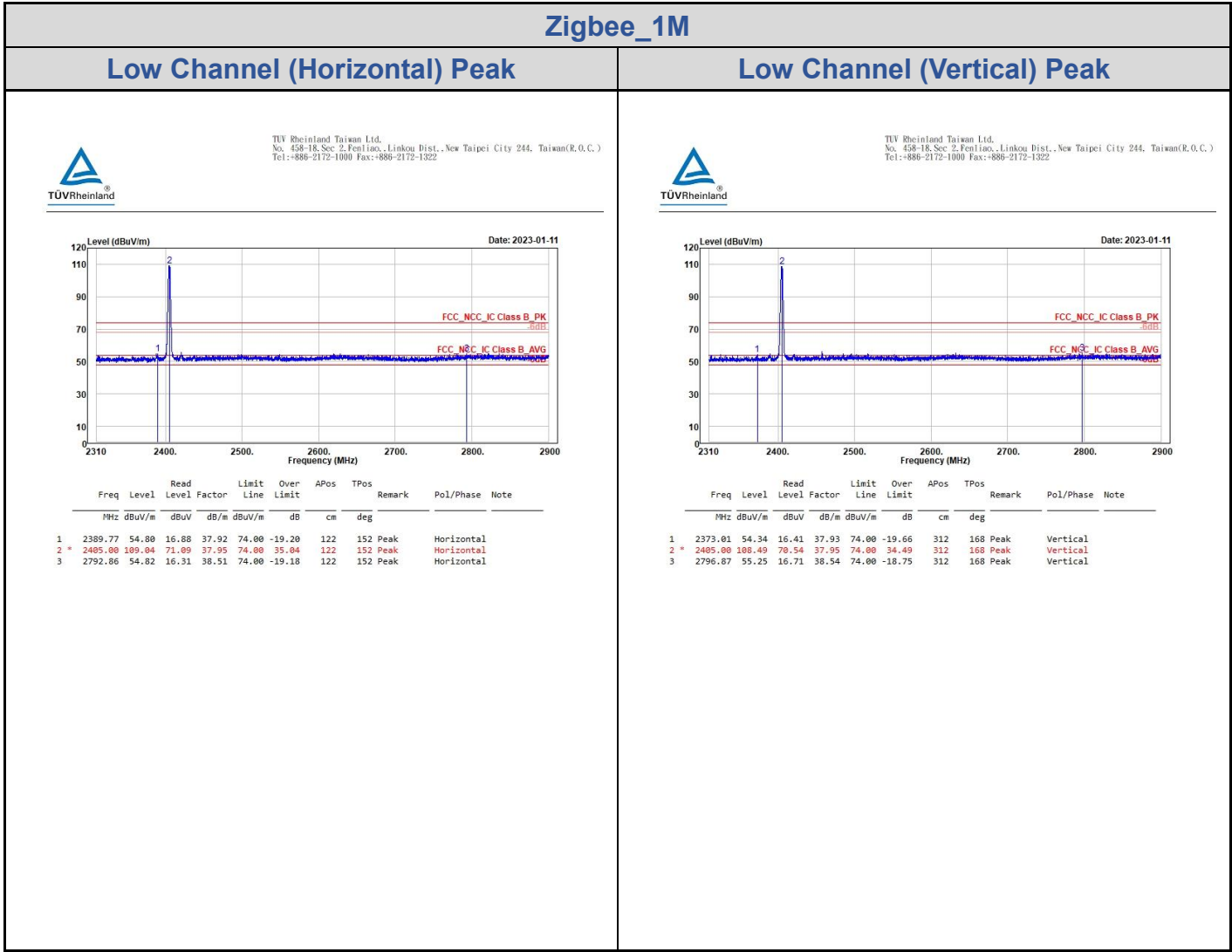


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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	44.00	52.39	-8.39	54.00	-10.00	366	89	Average	Vertical		
2	4960.00	45.67	54.06	-8.39	54.00	-0.33	366	89	Peak	Vertical		
3	12400.00	51.45	49.87	1.58	54.00	-2.55	200	183	Average	Vertical		
4	12400.00	59.71	58.13	1.58	54.00	-14.29	200	183	Peak	Vertical		

ECC Mode for 2nd Source
Band Edges, 2.31GHz ~ 2.9GHz



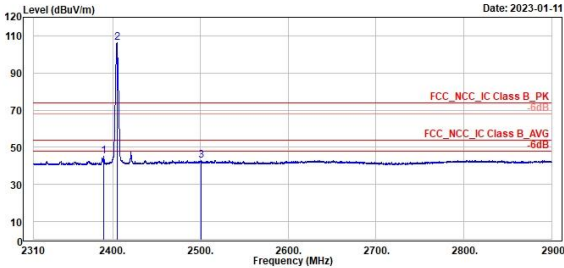
Zigbee_1M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



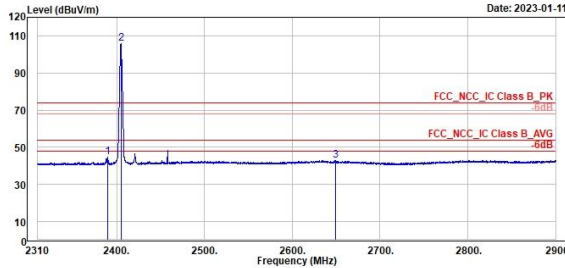
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	Limit	cm	deg			
1	2389.89	45.24	7.32	37.92	54.00	-8.76	122	152	Average	Horizontal		
2 *	2405.00	106.46	66.51	37.95	54.00	52.46	122	152	Average	Horizontal		
3	2501.16	43.11	4.78	38.33	54.00	-10.89	122	152	Average	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	Limit	cm	deg			
1	2389.77	44.73	6.81	37.92	54.00	-9.27	312	168	Average	Vertical		
2 *	2405.00	105.91	67.96	37.95	54.00	51.91	312	168	Average	Vertical		
3	2649.01	43.10	4.70	38.40	54.00	-10.90	312	168	Average	Vertical		

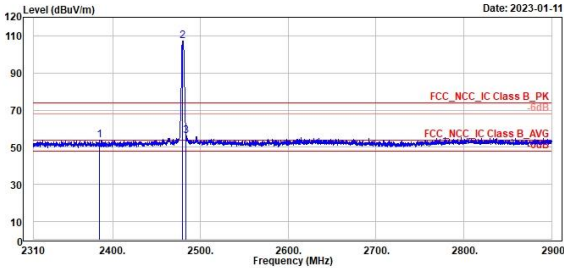
Zigbee _1M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



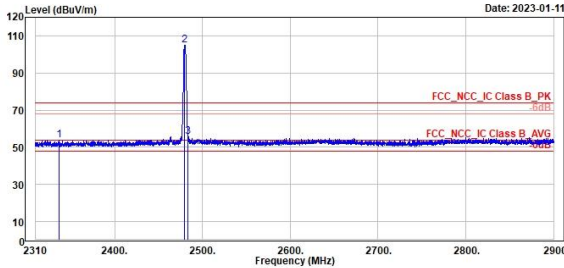
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2384.93	54.04	16.11	37.93	74.00	-19.96		174	189	Peak	Horizontal	
2 *	2480.00	107.08	66.77	38.31	74.00	33.08		174	189	Peak	Horizontal	
3	2483.46	56.23	17.92	38.31	74.00	-17.77		174	189	Peak	Horizontal	



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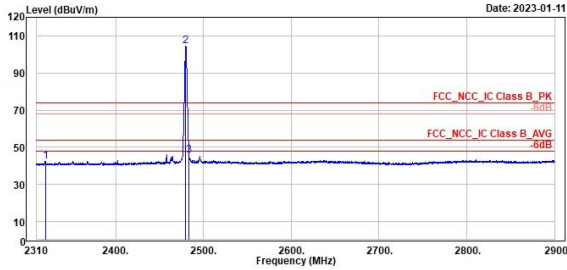
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2336.79	53.93	16.10	37.83	74.00	-20.07		328	176	Peak	Vertical	
2 *	2480.00	104.85	66.54	38.31	74.00	30.85		328	176	Peak	Vertical	
3	2483.46	55.63	17.32	38.31	74.00	-18.37		328	176	Peak	Vertical	

Zigbee _1M

High Channel (Horizontal) Average



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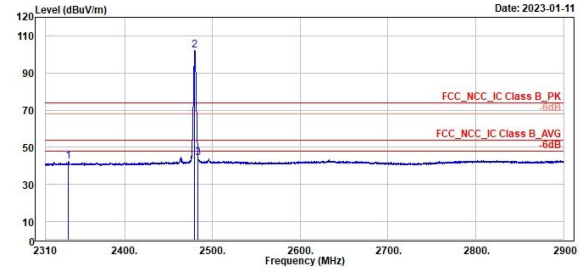


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2320.27	42.38	4.70	37.68	54.00	-11.62	174	189	Average	Horizontal		
2 *	2480.00	104.52	66.21	38.31	54.00	50.52	174	189	Average	Horizontal		
3	2483.46	45.62	7.31	38.31	54.00	-8.38	174	189	Average	Horizontal		

High Channel (Vertical) Average



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	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	2336.20	42.31	4.48	37.83	54.00	-11.69	328	176	Average	Vertical		
2 *	2480.00	102.28	63.97	38.31	54.00	48.28	328	176	Average	Vertical		
3	2483.46	44.37	6.06	38.31	54.00	-9.63	328	176	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

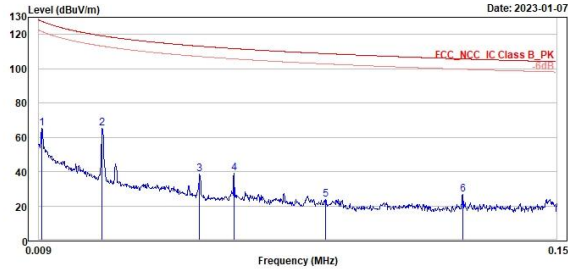
Zigbee_1M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



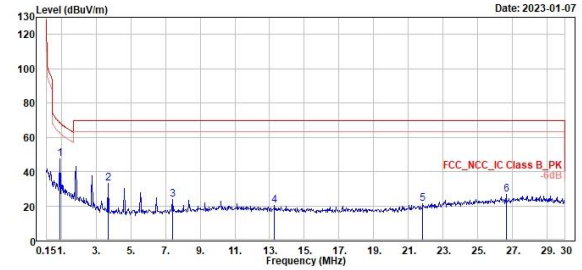
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	0.01	65.01	36.17	28.84	127.72	-62.71	100	117	QP	Open		
2	0.03	65.14	42.59	22.55	119.18	-54.04	100	278	QP	Open		
3	0.05	38.35	22.33	16.02	113.13	-74.78	100	334	QP	Open		
4	0.06	38.91	24.18	14.73	111.72	-72.81	100	211	QP	Open		
5	0.09	23.68	12.36	11.32	106.79	-85.11	100	200	QP	Open		
6	0.12	26.59	18.07	8.52	105.70	-79.11	100	184	QP	Open		



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	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	0.93	47.52	53.64	-6.12	68.27	-20.75	100	234	QP	Open		
2	3.70	33.31	44.56	-11.25	69.50	-36.19	100	234	QP	Open		
3	7.43	23.77	34.80	-11.03	69.50	-45.73	100	158	QP	Open		
4	13.28	20.15	30.61	-10.46	69.50	-49.35	100	268	QP	Open		
5	21.82	21.43	31.74	-10.31	69.50	-48.07	100	7	QP	Open		
6	26.63	26.71	34.70	-7.99	69.50	-42.79	100	111	QP	Open		

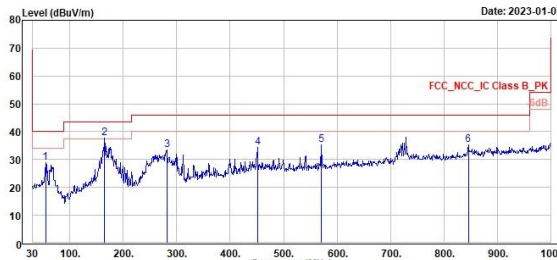
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

TUV Rheinland

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Level (dBuV/m)

Date: 2023-01-07



Freq Level Read Level Factor Limit Over APos TPos Remark Pol/Phase Note
MHz dBuV/m dBuV dB/m dBuV/m dB cm deg

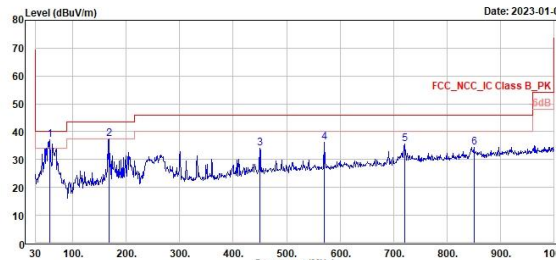
1	54.25	28.89	35.27	-6.38	40.00	-11.11	300	268	QP	Horizontal	
2	164.83	37.72	43.46	-5.74	43.50	-5.78	200	265	QP	Horizontal	
3	281.23	33.42	38.59	-5.17	46.00	-12.58	300	200	QP	Horizontal	
4	450.98	34.41	36.41	-2.00	46.00	-11.59	300	230	QP	Horizontal	
5	571.26	35.38	35.74	-0.36	46.00	-10.62	200	113	QP	Horizontal	
6	845.77	35.40	31.37	4.03	46.00	-10.60	100	299	QP	Horizontal	

TUV Rheinland

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Level (dBuV/m)

Date: 2023-01-09



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	57.16	37.17	43.87	-6.70	40.00	-2.83	139	360	QP	Vertical	
2	167.74	37.42	43.31	-5.89	43.50	-6.08	100	260	QP	Vertical	
3	450.01	34.03	36.04	-2.01	46.00	-11.97	100	225	QP	Vertical	
4	571.26	36.27	36.63	-0.36	46.00	-9.73	100	192	QP	Vertical	
5	720.64	35.68	33.72	1.96	46.00	-10.32	200	10	QP	Vertical	
6	850.62	34.51	30.46	4.05	46.00	-11.49	200	184	QP	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

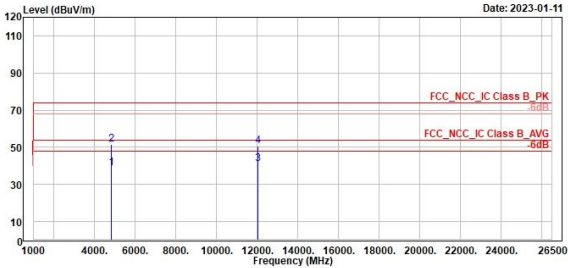
Zigbee_1M

Low Channel (Horizontal)

Low Channel (Vertical)



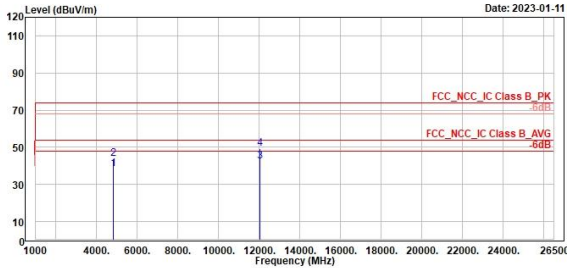
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	Limit	cm	deg			
1	4810.00	38.72	47.24	-8.52	54.00	-15.28	400	360	Average	Horizontal		
2	4810.00	51.56	60.08	-8.52	74.00	-22.44	400	360	Peak	Horizontal		
3	12025.00	40.90	39.98	0.92	54.00	-13.10	400	330	Average	Horizontal		
4	12025.00	50.42	49.50	0.92	74.00	-23.58	400	330	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	Limit	cm	deg			
1	4810.00	38.46	46.98	-8.52	54.00	-15.54	400	203	Average	Vertical		
2	4810.00	43.72	52.24	-8.52	74.00	-30.28	400	203	Peak	Vertical		
3	12025.00	42.47	41.55	0.92	54.00	-11.53	229	196	Average	Vertical		
4	12025.00	49.11	48.19	0.92	74.00	-24.89	229	196	Peak	Vertical		

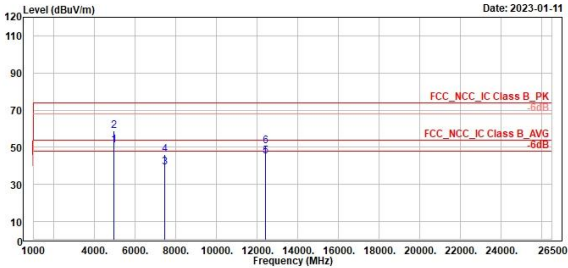
Zigbee _1M

High Channel (Horizontal)

High Channel (Vertical)



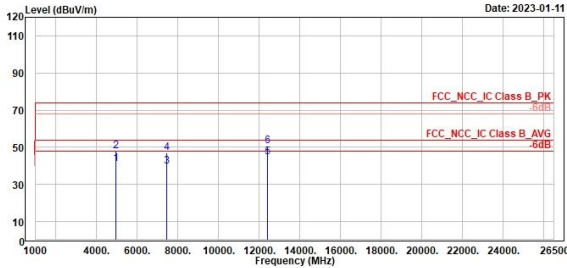
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	51.28	59.67	-8.39	54.00	-2.72	300	360	Average	Horizontal		
2	4960.00	58.73	67.12	-8.39	74.00	-15.27	300	360	Peak	Horizontal		
3	7440.00	39.04	45.35	-6.31	54.00	-14.96	400	194	Average	Horizontal		
4	7440.00	45.90	52.21	-6.31	74.00	-28.10	400	194	Peak	Horizontal		
5	12400.00	45.01	43.43	1.58	54.00	-8.99	100	60	Average	Horizontal		
6	12400.00	50.87	49.29	1.58	74.00	-23.13	100	60	Peak	Horizontal		



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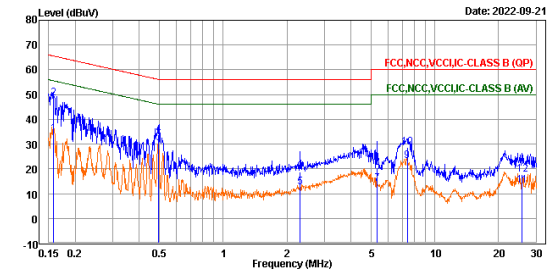
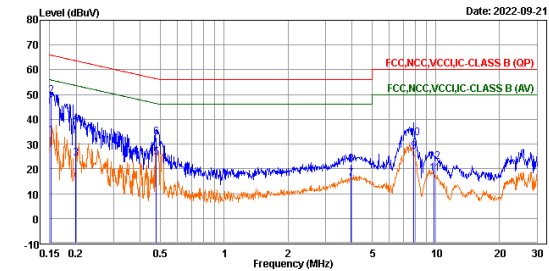
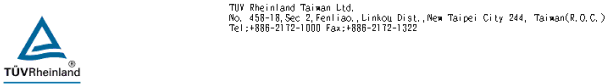
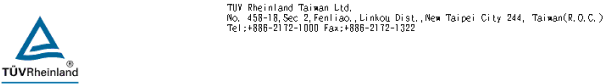
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	41.09	49.48	-8.39	54.00	-12.91	400	135	Average	Vertical		
2	4960.00	47.82	56.21	-8.39	74.00	-26.18	400	135	Peak	Vertical		
3	7440.00	39.55	45.86	-6.31	54.00	-14.45	300	228	Average	Vertical		
4	7440.00	47.22	53.53	-6.31	74.00	-26.78	300	228	Peak	Vertical		
5	12400.00	44.73	43.15	1.58	54.00	-9.27	200	187	Average	Vertical		
6	12400.00	50.59	49.01	1.58	74.00	-23.41	200	187	Peak	Vertical		

Mains Conducted Emission, 150kHz ~ 30MHz

Worst Band

(Line)

(Neutral)



Trace: 1									
	Freq	Level	Read	Factor	Limit	Over		Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	33.63	24.02	9.61	55.92	-22.29	Average	line1	
2	0.15	49.47	39.86	9.61	65.92	-16.45	QP	line1	
3	0.20	24.06	14.45	9.61	53.64	-29.58	Average	line1	
4	0.20	38.31	28.70	9.61	63.64	-25.33	QP	line1	
5	0.48	24.64	15.02	9.62	46.40	-21.76	Average	line1	
6	0.48	32.72	23.10	9.62	56.40	-23.68	QP	line1	
7	3.97	16.03	6.36	9.67	46.00	-29.97	Average	line1	
8	3.97	21.82	12.15	9.67	56.00	-34.18	QP	line1	
9	7.85	26.82	17.11	9.71	50.00	-23.18	Average	line1	
10	7.85	32.43	22.72	9.71	60.00	-27.57	QP	line1	
11	9.82	18.02	8.29	9.73	50.00	-31.98	Average	line1	
12	9.82	22.81	13.08	9.73	60.00	-37.19	QP	line1	

Trace: 1									
	Freq	Level	Read	Factor	Limit	Over		Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	34.31	24.72	9.59	55.59	-21.28	Average	neutral	
2	0.16	48.68	39.09	9.59	65.59	-16.91	QP	neutral	
3	0.49	30.31	20.71	9.60	46.11	-15.80	Average	neutral	
4	0.49	33.82	24.22	9.60	56.11	-22.29	QP	neutral	
5	2.31	12.69	3.06	9.63	46.00	-33.31	Average	neutral	
6	2.31	18.71	9.08	9.63	56.00	-37.29	QP	neutral	
7	5.32	13.89	4.20	9.69	50.00	-36.11	Average	neutral	
8	5.32	20.31	10.62	9.69	60.00	-39.69	QP	neutral	
9	7.39	23.05	13.34	9.71	50.00	-26.95	Average	neutral	
10	7.39	28.76	19.05	9.71	60.00	-31.24	QP	neutral	
11	25.70	13.34	3.52	9.82	50.00	-36.66	Average	neutral	
12	25.70	17.87	8.05	9.82	60.00	-42.13	QP	neutral	

Non-ECC Mode
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

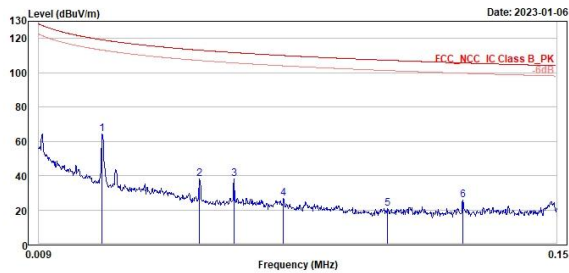
Zigbee_1M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



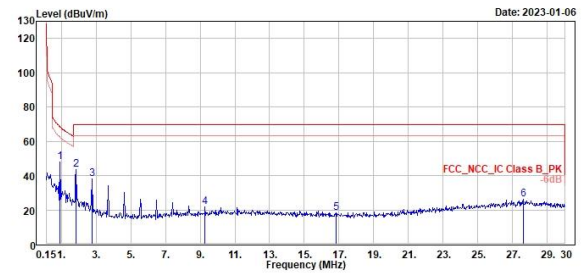
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No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



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	0.03	64.21	41.66	22.55	119.18	-54.97	100	19	QP	Open	
2	0.05	37.84	21.82	16.02	113.13	-75.29	100	353	QP	Open	
3	0.06	37.99	23.26	14.73	111.72	-73.73	100	334	QP	Open	
4	0.08	26.68	13.76	12.92	110.01	-83.33	100	38	QP	Open	
5	0.10	20.78	11.40	9.38	107.25	-86.47	100	74	QP	Open	
6	0.12	25.69	17.17	8.52	105.70	-80.01	100	230	QP	Open	



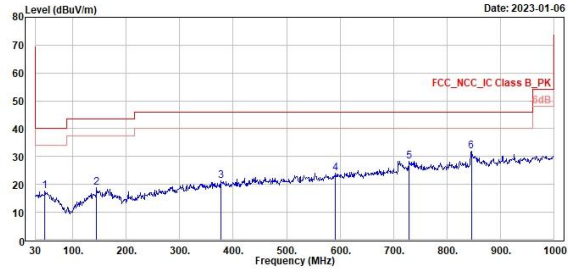
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.93	47.85	53.97	-6.12	68.27	-20.42	100	233	QP	Open	
2	1.85	43.43	51.95	-8.52	69.50	-26.07	100	233	QP	Open	
3	2.78	37.89	48.35	-10.46	69.50	-31.61	100	233	QP	Open	
4	9.28	21.76	32.14	-10.38	69.50	-47.74	100	138	QP	Open	
5	16.04	19.31	29.16	-10.85	69.50	-51.19	100	74	QP	Open	
6	27.61	26.25	33.77	-7.52	69.50	-43.25	100	50	QP	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
Zigbee_1M
High Channel (Horizontal)
High Channel (Vertical)

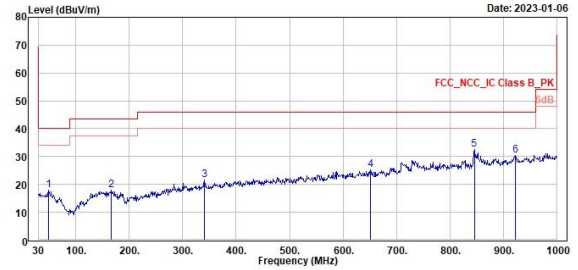

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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	47.46	17.69	23.45	-5.76	40.00	-22.31	100	340	QP		Horizontal	
2	144.46	18.92	24.86	-5.94	43.50	-24.58	400	228	QP		Horizontal	
3	376.29	21.19	24.40	-3.21	46.00	-24.81	300	28	QP		Horizontal	
4	591.63	24.08	23.94	0.14	46.00	-21.92	100	127	QP		Horizontal	
5	729.37	28.34	26.27	2.07	46.00	-17.66	200	350	QP		Horizontal	
6	845.77	31.83	27.60	4.03	46.00	-14.17	200	100	QP		Horizontal	



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	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	49.40	17.89	23.90	-6.01	40.00	-22.11	100	43	QP		Vertical	
2	166.77	18.08	23.97	-5.89	43.50	-25.42	100	52	QP		Vertical	
3	348.40	21.59	25.32	-3.73	46.00	-24.41	100	171	QP		Vertical	
4	650.80	25.15	24.22	0.93	46.00	-20.85	300	360	QP		Vertical	
5	845.77	32.63	28.60	4.03	46.00	-13.37	100	183	QP		Vertical	
6	923.37	30.44	25.35	5.09	46.00	-15.56	100	27	QP		Vertical	

Non-ECC Mode for 2nd Source

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

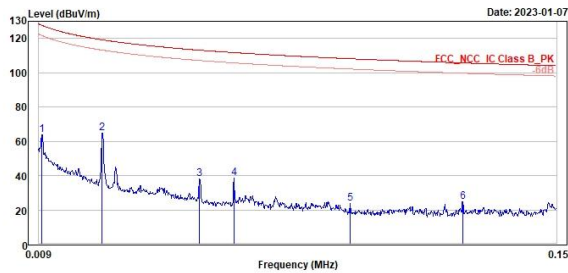
Zigbee_1M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



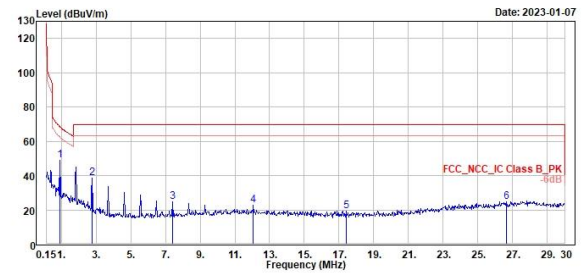
TÜV Rheinland Taiwan Ltd.
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1	2	3	4	5	6
Freq	Level	Read	Limit	Over	APos
MHz	dBuV/m	Level Factor	Line	Limit	TPos
dB	cm	deg	Remark	Pol/Phase	Note
0.01	64.01	35.17	28.84	127.72	-63.71
0.03	64.99	42.44	22.55	119.18	-54.19
0.05	38.28	22.26	16.02	113.13	-74.85
0.06	38.50	23.77	14.73	111.72	-73.22
0.09	23.52	13.14	10.30	106.16	-84.64
0.12	24.78	16.26	8.52	105.70	-80.92



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1	2	3	4	5	6
Freq	Level	Read	Limit	Over	APos
MHz	dBuV/m	Level Factor	Line	Limit	TPos
dB	cm	deg	Remark	Pol/Phase	Note
0.93	49.15	55.27	-6.12	68.27	-19.12
2.78	38.66	49.12	-10.46	69.50	-30.84
7.40	24.58	35.62	-11.04	69.50	-44.92
12.06	22.56	32.88	-10.32	69.50	-46.94
17.40	19.34	30.25	-10.91	69.50	-50.16
26.63	24.80	32.79	-7.99	69.50	-44.70

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

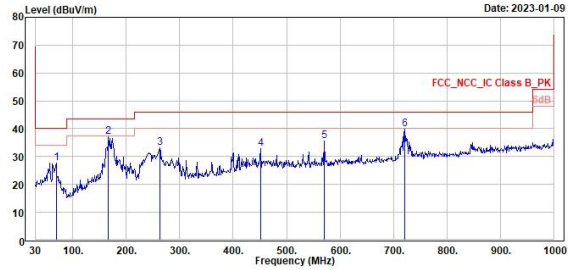
Zigbee_1M

High Channel (Horizontal)

High Channel (Vertical)



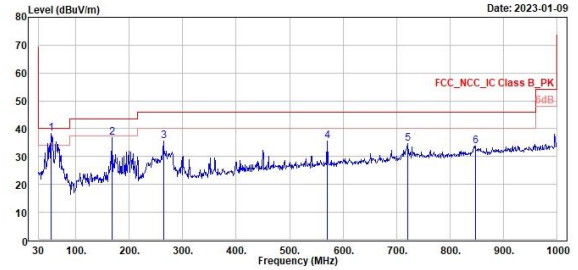
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	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	68.80	27.65	36.01	-8.36	40.00	-12.35		400	279	QP	Horizontal	
2	166.77	37.24	43.13	-5.89	43.50	-6.26		200	101	QP	Horizontal	
3	262.80	33.28	39.38	-6.10	46.00	-12.72		300	130	QP	Horizontal	
4	450.98	32.71	34.71	-2.00	46.00	-13.29		200	245	QP	Horizontal	
5	571.26	35.55	35.91	-0.36	46.00	-10.45		200	115	QP	Horizontal	
6	720.64	39.83	37.87	1.96	46.00	-6.17		100	140	QP	Horizontal	



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	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	53.28	38.22	44.38	-6.16	40.00	-1.78		100	184	QP	Vertical	
2	167.74	36.72	42.61	-5.89	43.50	-6.78		100	278	QP	Vertical	
3	263.77	35.60	41.66	-6.06	46.00	-10.40		100	327	QP	Vertical	
4	571.26	35.69	36.05	-0.36	46.00	-10.31		200	176	QP	Vertical	
5	720.64	34.57	32.61	1.96	46.00	-11.43		200	322	QP	Vertical	
6	847.71	33.87	29.82	4.05	46.00	-12.13		200	360	QP	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

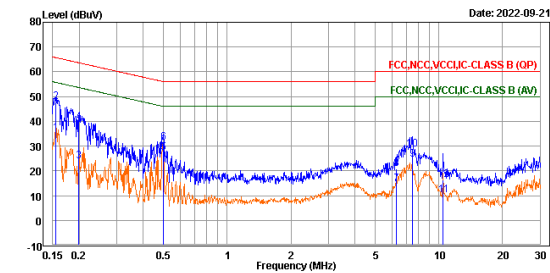
Worst Band

(Line)

(Neutral)



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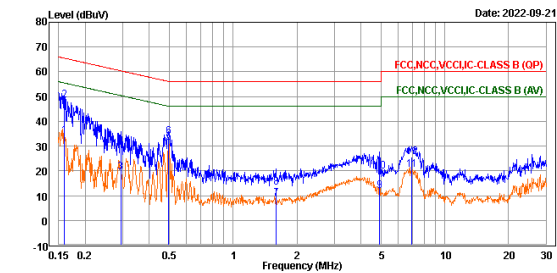


Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	35.13	25.52	9.61	55.75	-20.62	Average	line1	
2	0.15	47.83	38.22	9.61	65.75	-17.92	QP	line1	
3	0.20	23.85	14.24	9.61	53.64	-29.79	Average	line1	
4	0.20	39.51	29.90	9.61	63.64	-24.13	QP	line1	
5	0.50	27.39	17.77	9.62	46.00	-18.61	Average	line1	
6	0.50	31.50	21.88	9.62	56.00	-24.50	QP	line1	
7	6.27	14.80	5.10	9.70	50.00	-35.20	Average	line1	
8	6.27	20.95	11.25	9.70	60.00	-39.05	QP	line1	
9	7.47	24.40	14.69	9.71	50.00	-25.60	Average	line1	
10	7.47	28.81	19.10	9.71	60.00	-31.19	QP	line1	
11	10.48	10.18	0.45	9.73	50.00	-39.82	Average	line1	
12	10.48	16.41	6.68	9.73	60.00	-43.59	QP	line1	



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Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	34.15	24.56	9.59	55.50	-21.35	Average	neutral	
2	0.16	48.57	38.98	9.59	65.50	-16.93	QP	neutral	
3	0.29	19.56	9.97	9.59	50.41	-30.85	Average	neutral	
4	0.29	30.16	20.57	9.59	60.41	-30.25	QP	neutral	
5	0.50	31.33	21.73	9.60	46.00	-14.73	Average	neutral	
6	0.50	33.72	24.12	9.60	56.00	-22.34	QP	neutral	
7	1.59	8.80	-0.82	9.62	46.00	-37.20	Average	neutral	
8	1.59	13.21	3.59	9.62	56.00	-42.79	QP	neutral	
9	4.91	11.73	2.05	9.68	46.00	-34.27	Average	neutral	
10	4.91	19.76	10.08	9.68	56.00	-36.24	QP	neutral	
11	6.96	20.44	10.73	9.71	50.00	-29.56	Average	neutral	
12	6.96	25.64	15.93	9.71	60.00	-34.36	QP	neutral	