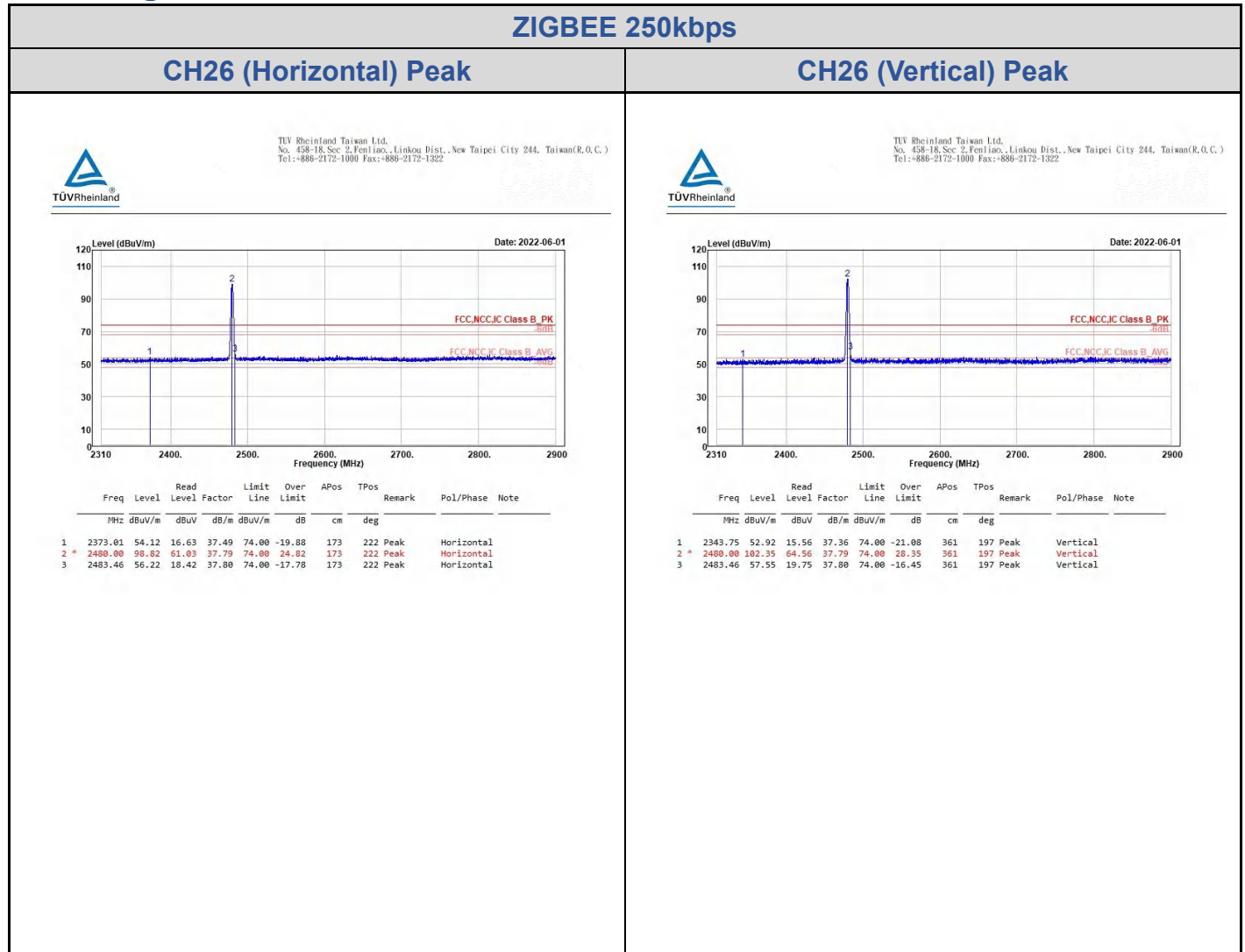


Appendix C: Test Results of Radiated Spurious Emissions by PCB

Antenna (ECC)

Band Edges, 2.31GHz ~ 2.9GHz



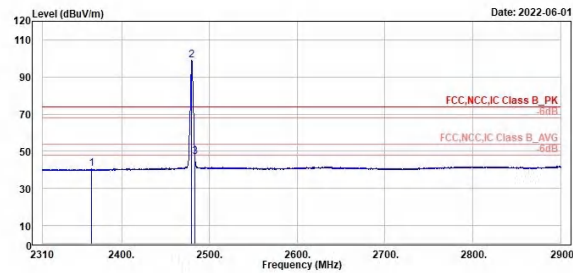
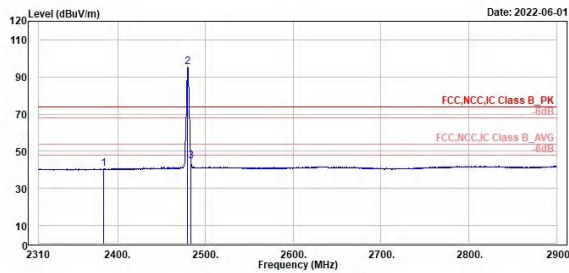
ZIGBEE 250kbps

CH26 (Horizontal) Average

CH26 (Vertical) Average

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Tel: +886-2172-1000 Fax: +886-2172-1322

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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	2384.18	40.48	2.93	37.55	54.00	-13.52	173	222	Average	Horizontal	
2 *	2480.00	95.47	57.68	37.79	54.00	41.47	173	222	Average	Horizontal	
3	2483.46	44.87	7.07	37.80	54.00	-9.13	173	222	Average	Horizontal	

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	2365.93	40.43	2.98	37.45	54.00	-13.57	361	197	Average	Vertical	
2 *	2480.00	98.95	61.16	37.79	54.00	44.95	361	197	Average	Vertical	
3	2483.46	47.21	9.41	37.80	54.00	-6.79	361	197	Average	Vertical	

ZIGBEE 2Mbps

CH26 (Horizontal) Peak

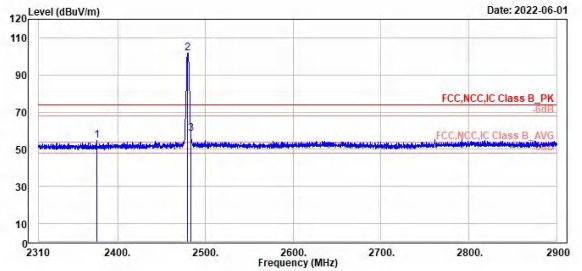
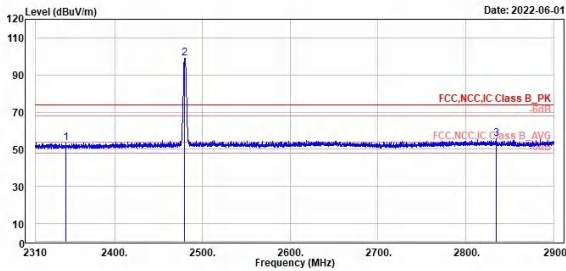
CH26 (Vertical) Peak



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Tel: +886-2172-1000 Fax: +886-2172-1322



Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2344.22	53.35	15.99	37.36	74.00	-20.65	173	222	Peak	Horizontal	
2 *	2480.00	98.90	61.11	37.79	74.00	24.90	173	222	Peak	Horizontal	
3	2834.39	55.67	17.50	38.17	74.00	-18.33	173	222	Peak	Horizontal	

Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2376.20	54.92	17.42	37.50	74.00	-19.08	119	179	Peak	Vertical	
2 *	2480.00	101.81	64.02	37.79	74.00	27.81	119	179	Peak	Vertical	
3	2483.46	58.18	20.38	37.80	74.00	-15.82	119	179	Peak	Vertical	

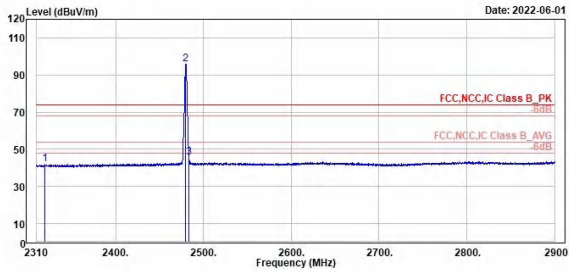
ZIGBEE 2Mbps

CH26 (Horizontal) Peak

CH26 (Vertical) Peak



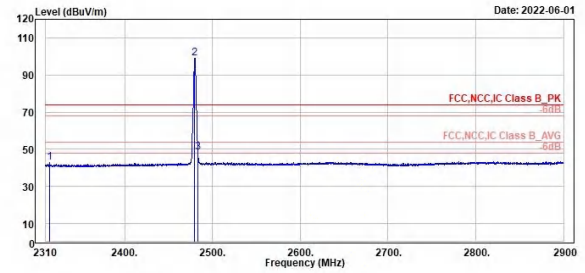
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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2319.79	41.84	4.56	37.28	54.00	-12.16	173	222	Average	Horizontal	
2 *	2480.00	96.01	58.22	37.79	54.00	42.01	173	222	Average	Horizontal	
3	2483.46	45.55	7.75	37.80	54.00	-8.45	173	222	Average	Horizontal	



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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2314.37	42.68	5.42	37.26	54.00	-11.32	119	179	Average	Vertical	
2 *	2480.00	96.94	61.15	37.79	54.00	44.94	119	179	Average	Vertical	
3 !	2483.46	48.24	10.44	37.80	54.00	-5.76	119	179	Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

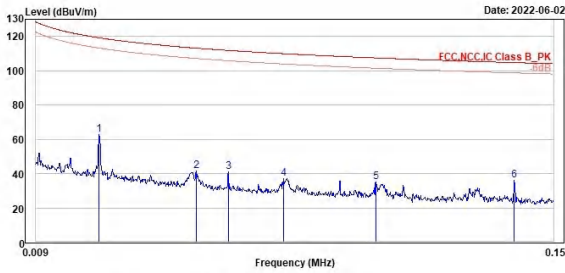
ZIGBEE 250kbps

CH26 (Open) 9kHz~150kHz

CH26 (Open) 150kHz~30MHz



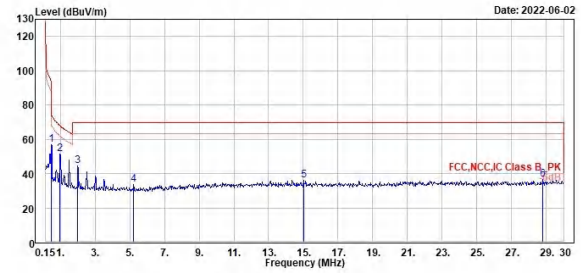
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	62.05	43.67	19.18	119.18	-56.33	100	102 QP	Open
2	0.05	41.71	22.46	19.25	113.13	-71.42	100	255 QP	Open
3	0.06	41.18	22.12	19.06	111.82	-70.64	100	37 QP	Open
4	0.08	37.04	18.31	18.73	109.93	-72.89	100	150 QP	Open
5	0.10	35.04	16.81	18.23	107.46	-72.42	100	150 QP	Open
6	0.14	35.96	17.60	18.36	104.72	-68.76	100	32 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	0.40	56.67	37.72	18.95	94.01	-37.34	100	154 QP	Open
2	0.99	51.49	32.23	19.26	67.73	-16.24	100	150 QP	Open
3	2.00	44.53	25.12	19.41	69.50	-24.97	100	160 QP	Open
4	5.22	33.50	14.05	19.45	69.50	-36.00	100	6 QP	Open
5	15.02	36.26	14.41	21.85	69.50	-33.24	100	102 QP	Open
6	28.81	36.51	13.92	22.59	69.50	-32.99	100	43 QP	Open

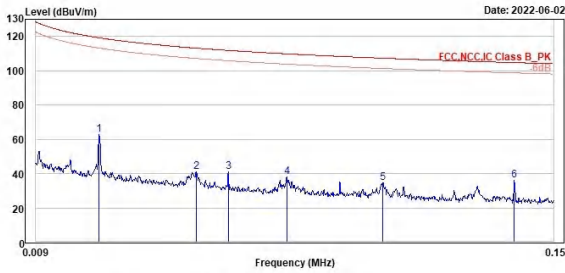
ZIGBEE 2Mbps

CH26 (Open) 9kHz~150kHz

CH26 (Open) 150kHz~30MHz



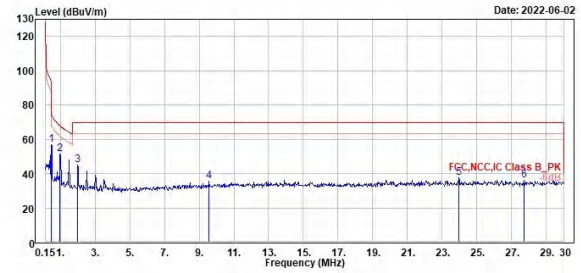
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	62.07	43.69	19.18	119.18	-56.31	100	290 QP	Open
2	0.05	41.26	22.01	19.25	113.13	-71.87	100	332 QP	Open
3	0.06	41.08	22.02	19.06	111.82	-70.74	100	23 QP	Open
4	0.08	37.91	19.20	18.71	109.82	-71.91	100	157 QP	Open
5	0.10	34.78	16.55	18.23	107.30	-72.52	100	173 QP	Open
6	0.14	36.17	17.81	18.36	104.72	-68.55	100	20 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	0.40	56.75	37.00	18.95	94.01	-37.26	100	146 QP	Open
2	0.99	51.60	32.34	19.26	67.73	-16.13	100	147 QP	Open
3	2.00	45.07	25.66	19.41	69.50	-24.43	100	142 QP	Open
4	9.58	35.81	14.52	21.29	69.50	-33.69	100	87 QP	Open
5	23.97	37.41	15.03	22.38	69.50	-32.09	100	39 QP	Open
6	27.73	35.06	13.31	22.55	69.50	-33.64	100	85 QP	Open

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

ZIGBEE 250kbps

CH26 (Horizontal)

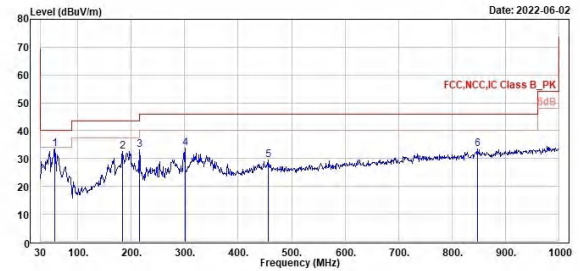
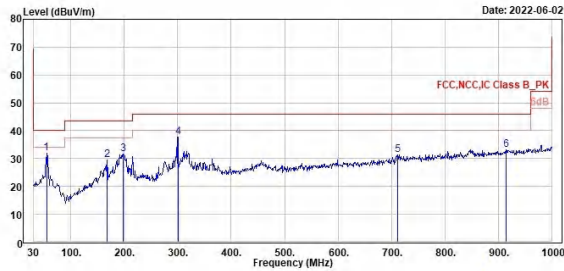
CH26 (Vertical)



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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	54.25	31.01	38.21	-6.48	48.00	-8.19	480	82 QP	Horizontal
2	167.74	29.49	35.48	-5.99	43.50	-14.01	280	108 QP	Horizontal
3	197.81	31.74	40.29	-8.55	43.50	-11.76	300	142 QP	Horizontal
4	300.63	37.74	42.46	-4.72	46.00	-8.26	100	290 QP	Horizontal
5	711.91	31.47	29.73	1.74	46.00	-14.53	300	360 QP	Horizontal
6	914.64	33.21	28.26	4.95	46.00	-12.79	100	140 QP	Horizontal

Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	56.19	33.58	40.26	-6.68	48.00	-6.42	180	200 QP	Vertical
2	183.26	32.65	40.44	-7.79	43.50	-10.85	100	196 QP	Vertical
3	215.27	33.21	41.35	-8.14	43.50	-10.29	100	152 QP	Vertical
4	300.63	33.86	38.58	-4.72	46.00	-12.14	100	360 QP	Vertical
5	455.83	29.50	31.61	-2.11	46.00	-16.50	100	206 QP	Vertical
6	647.71	33.37	29.62	3.75	46.00	-12.63	304	360 QP	Vertical

ZIGBEE 2Mbps

CH26 (Horizontal)

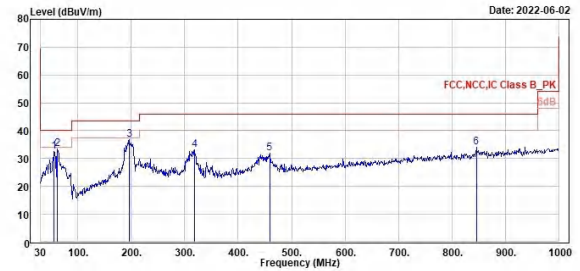
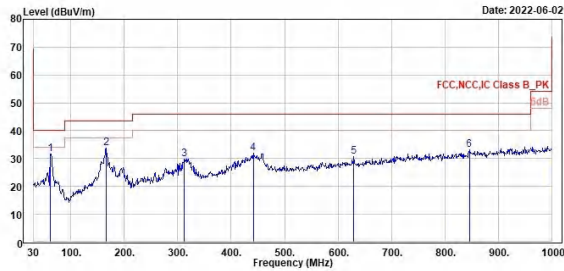
CH26 (Vertical)



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1	2	3	4	5	6						
Freq	Level	Read	Limit	Over	APos						
MHz	dBuV/m	Level	Line	Limit	TPos						
		Factor			Remark						
		dB/m	dB/m	dB	Pol/Phase						
					Note						
1	62.01	31.63	39.09	-7.46	48.00	-8.37	380	241	QP	Horizontal	
2	165.80	33.74	39.73	-5.99	43.50	-9.76	280	294	QP	Horizontal	
3	312.27	29.82	34.46	-4.64	46.00	-16.18	100	82	QP	Horizontal	
4	441.28	31.86	34.16	-2.30	46.00	-14.14	200	329	QP	Horizontal	
5	629.46	30.63	29.87	0.76	46.00	-15.37	100	290	QP	Horizontal	
6	845.77	33.22	29.49	3.73	46.00	-12.78	133	360	QP	Horizontal	

1	2	3	4	5	6						
Freq	Level	Read	Limit	Over	APos						
MHz	dBuV/m	Level	Line	Limit	TPos						
		Factor			Remark						
		dB/m	dB/m	dB	Pol/Phase						
					Note						
1	55.22	32.62	39.14	-6.52	48.00	-7.38	280	330	QP	Vertical	
2	62.01	33.45	40.91	-7.46	48.00	-6.55	280	330	QP	Vertical	
3	195.87	36.84	45.49	-8.65	43.50	-6.66	100	143	QP	Vertical	
4	318.09	33.05	37.55	-4.50	46.00	-12.95	100	172	QP	Vertical	
5	458.74	32.09	34.09	-2.00	46.00	-13.91	100	143	QP	Vertical	
6	845.77	34.09	30.36	3.73	46.00	-11.91	100	132	QP	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

ZIGBEE 250kbps

CH26 (Horizontal)

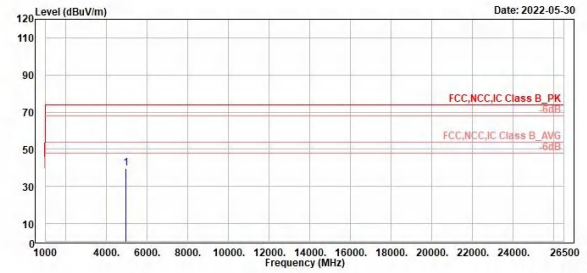
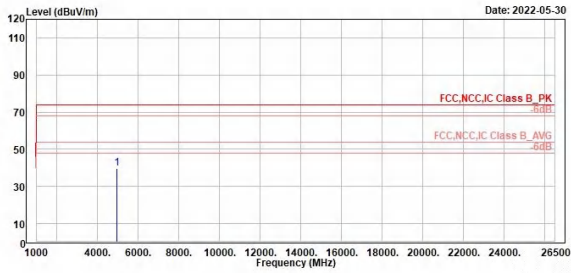
CH26 (Vertical)



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4960.00	39.60	49.14	-9.54	74.00	-34.40	117	360 Peak	Horizontal	

Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4960.00	39.71	49.23	-9.52	74.00	-34.29	100	274 Peak	Vertical	

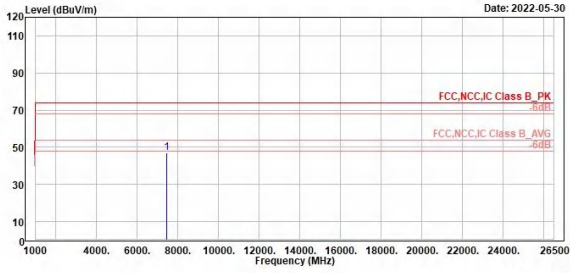
ZIGBEE 2Mbps

CH26 (Horizontal)

CH26 (Vertical)



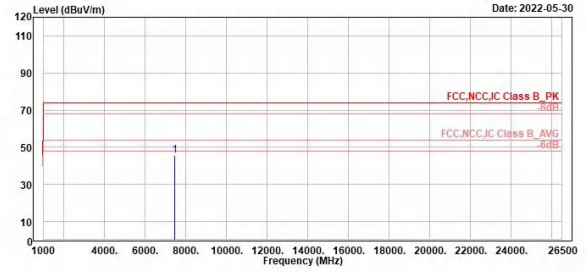
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 7440.00	46.89	54.24	-7.35	74.00	-27.11	300	118	Peak	Horizontal	



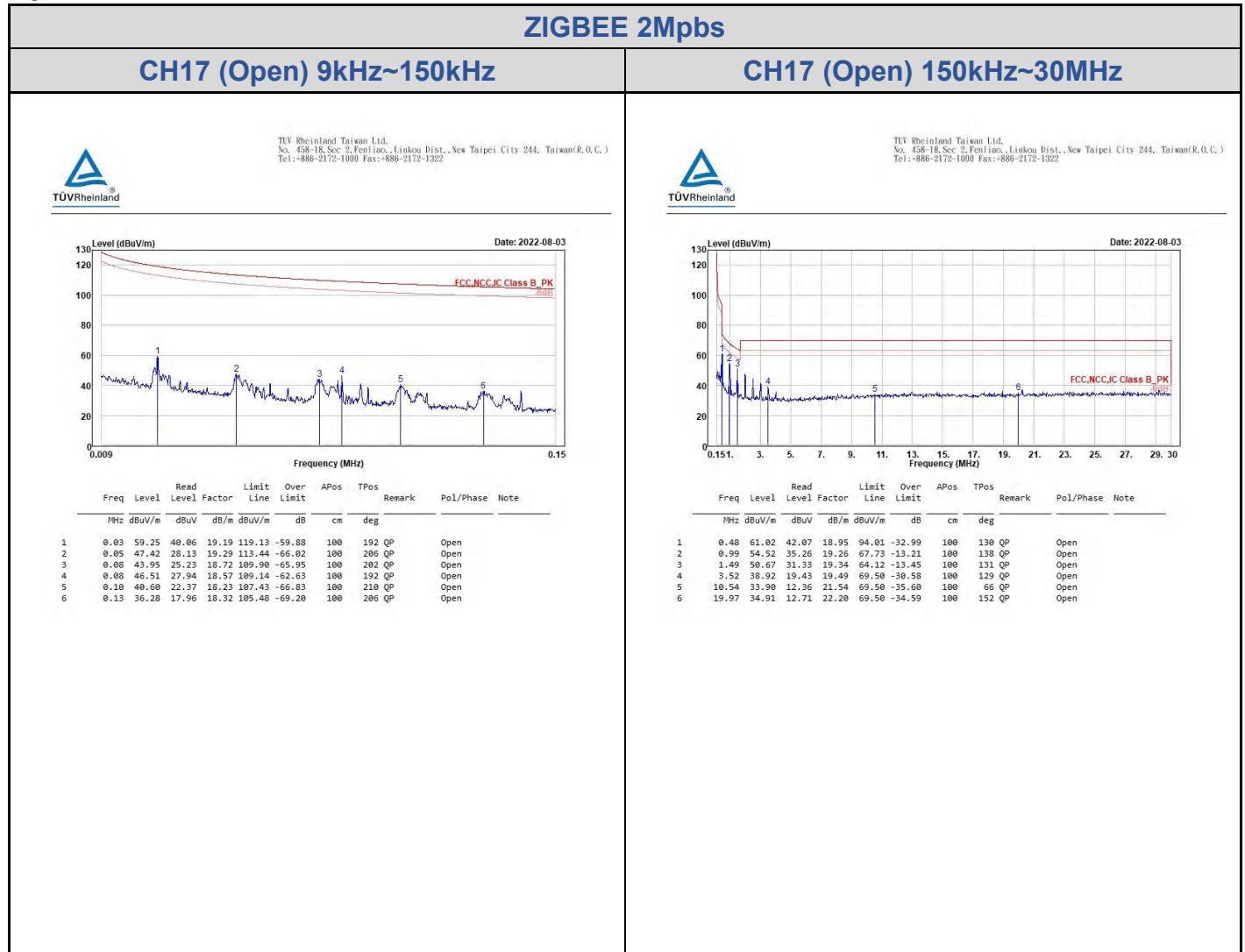
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 7440.00	45.59	52.94	-7.35	74.00	-28.41	100	9	Peak	Vertical	

Test Results of Radiated Spurious Emissions by PCB Antenna (ECC)_Buck PWM On

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz



Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

ZIGBEE 2Mbps

CH17 (Horizontal)

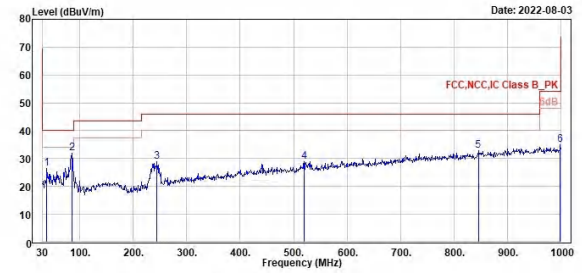
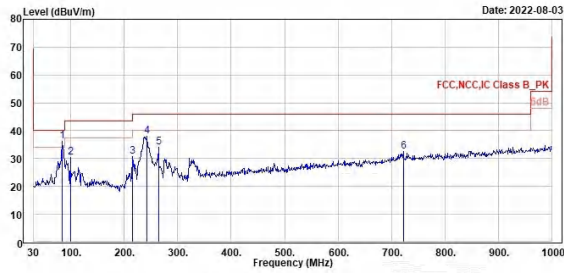
CH17 (Vertical)



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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	84.32	36.23	47.69	-11.46	48.00	-3.77	480	14 QP	Horizontal
2	98.87	38.34	41.93	-11.59	43.50	-13.16	280	226 QP	Horizontal
3	215.27	38.85	38.99	-8.14	43.50	-12.65	100	153 QP	Horizontal
4	242.43	37.94	44.65	-6.71	46.00	-8.06	100	137 QP	Horizontal
5	263.77	34.15	48.31	-6.16	46.00	-11.85	100	136 QP	Horizontal
6	722.58	32.52	38.76	1.76	46.00	-13.48	100	297 QP	Horizontal

Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	37.76	26.38	32.95	-6.57	48.00	-13.62	180	287 QP	Vertical
2	85.29	31.96	43.67	-11.71	48.00	-8.04	480	123 QP	Vertical
3	244.37	28.95	35.66	-6.71	46.00	-17.05	200	44 QP	Vertical
4	519.85	29.00	38.28	-1.28	46.00	-17.00	100	22 QP	Vertical
5	845.77	32.98	29.25	3.73	46.00	-13.02	400	334 QP	Vertical
6	999.03	34.91	28.67	6.24	54.00	-19.09	234	177 QP	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

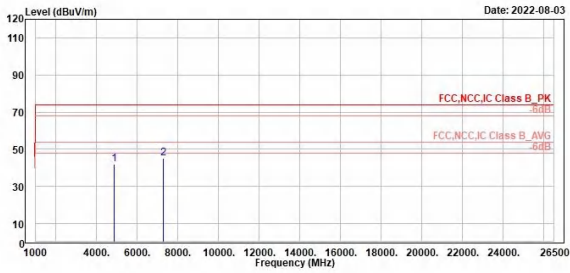
ZIGBEE 2Mbps

CH17 (Horizontal)

CH17 (Vertical)



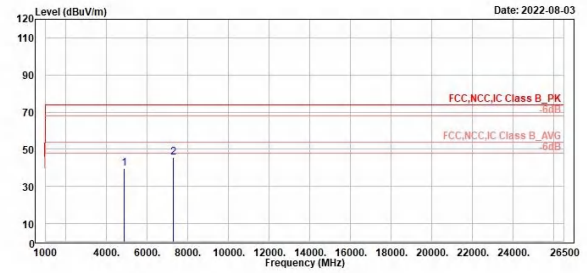
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4870.00	41.93	51.69	-9.76	74.00	-32.07	280	28 Peak	Horizontal	
2	7305.00	45.29	52.61	-7.52	74.00	-28.71	380	121 Peak	Horizontal	



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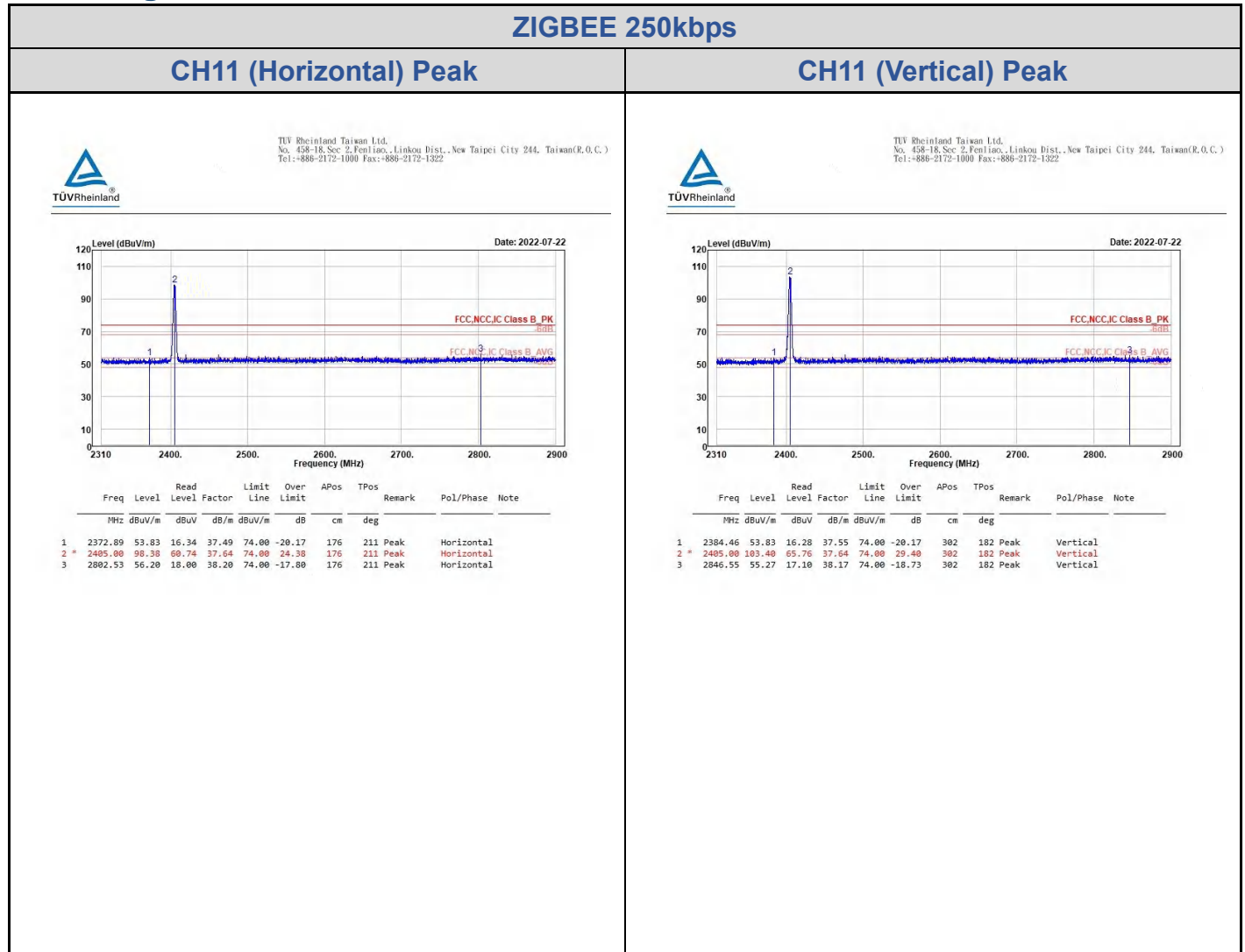


Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4870.00	39.82	49.58	-9.76	74.00	-34.18	380	112 Peak	Vertical	
2	7305.00	45.79	53.31	-7.52	74.00	-28.21	373	360 Peak	Vertical	

Test Results of Radiated Spurious Emissions by PCB Antenna

(ECC)_2nd Source

Band Edges, 2.31GHz ~ 2.9GHz



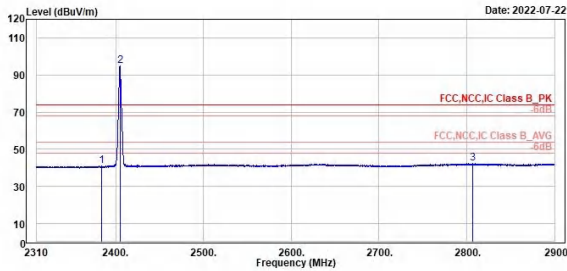
ZIGBEE 250kbps

CH11 (Horizontal) Average

CH11 (Vertical) Average



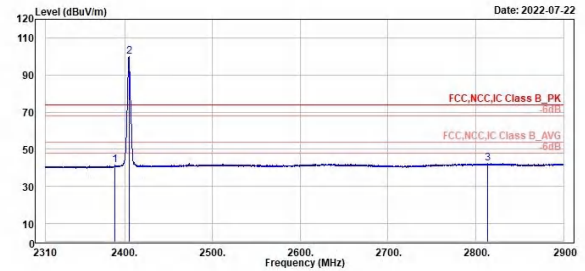
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2383.75	40.91	3.36	37.55	54.00	-13.09	176	211 Average	Horizontal
2 *	2485.00	94.99	57.35	37.64	54.00	40.99	176	211 Average	Horizontal
3	2896.31	42.33	4.13	38.20	54.00	-11.67	176	211 Average	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	2389.30	41.31	3.73	37.58	54.00	-12.69	302	182 Average	Vertical
2 *	2485.00	99.89	62.16	37.64	54.00	45.89	302	182 Average	Vertical
3	2813.62	42.28	4.09	38.19	54.00	-11.72	302	182 Average	Vertical

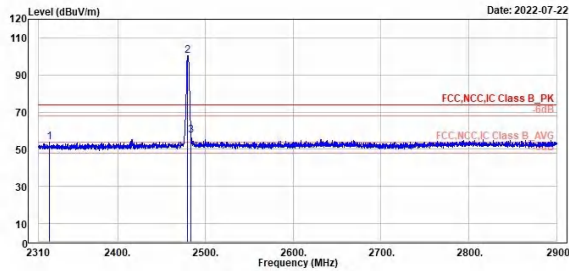
ZIGBEE 250kpbs

CH26 (Horizontal) Peak

CH26 (Vertical) Peak



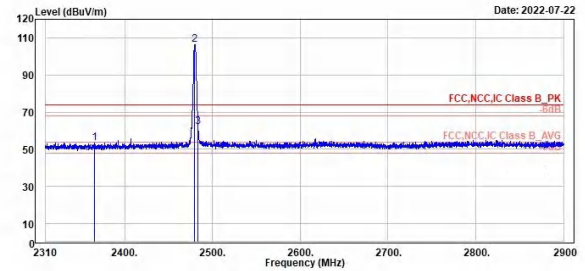
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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2322.51	53.62	16.33	37.29	74.00	-20.38	211	208	Peak	Horizontal	
2 *	2480.00	100.52	62.73	37.79	74.00	26.52	211	208	Peak	Horizontal	
3	2483.46	57.32	19.52	37.80	74.00	-16.68	211	208	Peak	Horizontal	



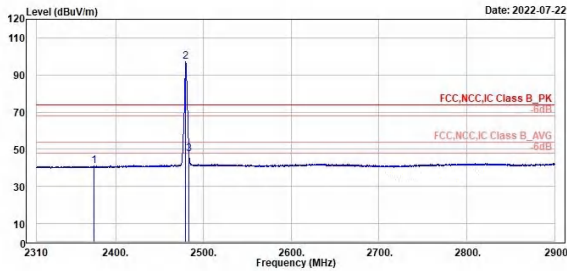
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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2365.46	53.52	16.07	37.45	74.00	-20.48	279	180	Peak	Vertical	
2 *	2480.00	106.17	68.38	37.79	74.00	32.17	279	180	Peak	Vertical	
3	2483.46	62.20	24.40	37.80	74.00	-11.80	279	180	Peak	Vertical	

ZIGBEE 250kHz
CH26 (Horizontal) Average
CH26 (Vertical) Average

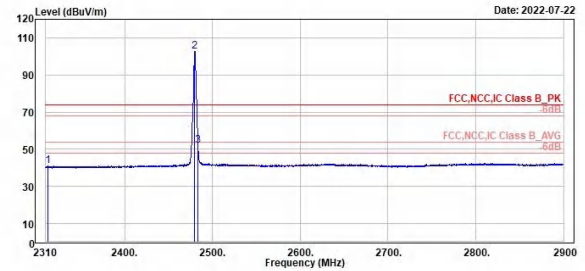

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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2375.02	40.95	3.45	37.50	54.00	-13.05	211	200 Average	Horizontal	
2 *	2480.00	97.10	59.31	37.79	54.00	43.10	211	200 Average	Horizontal	
3	2483.46	47.50	9.70	37.80	54.00	-6.50	211	200 Average	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2312.60	40.92	3.66	37.26	54.00	-13.08	279	100 Average	Vertical	
2 *	2480.00	102.81	65.02	37.79	54.00	48.81	279	100 Average	Vertical	
3 !	2483.46	52.20	14.40	37.80	54.00	-1.80	279	100 Average	Vertical	

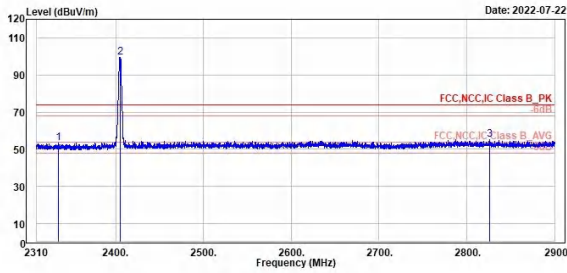
ZIGBEE 2Mbps

CH11 (Horizontal) Peak

CH11 (Vertical) Peak



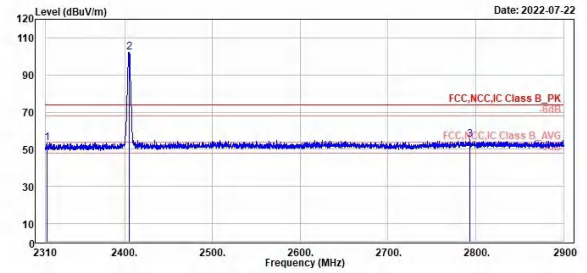
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg												
2334.78	53.61	16.28	37.33	74.00	-20.39	100	211	Peak	Horizontal										
2485.00	99.40	61.76	37.64	74.00	25.40	100	211	Peak	Horizontal										
2825.78	55.38	17.20	38.18	74.00	-18.62	100	211	Peak	Horizontal										



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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg												
2311.30	53.56	16.21	37.25	74.00	-20.44	328	183	Peak	Vertical										
2485.00	102.29	64.65	37.64	74.00	28.29	328	183	Peak	Vertical										
2793.56	55.35	17.15	38.20	74.00	-18.65	328	183	Peak	Vertical										

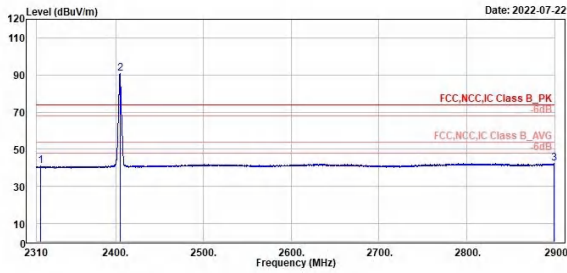
ZIGBEE 2Mbps

CH11 (Horizontal) Average

CH11 (Vertical) Average



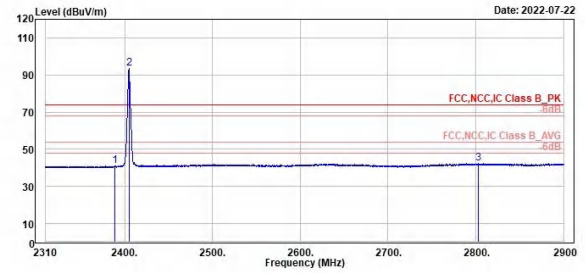
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2314.68	40.91	3.65	37.26	54.00	-13.09	180	211 Average	Horizontal
2 *	2485.00	98.77	53.13	37.64	54.00	36.77	180	211 Average	Horizontal
3	2899.29	42.45	4.03	38.42	54.00	-11.55	180	211 Average	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	2389.10	40.98	3.40	37.58	54.00	-13.02	328	183 Average	Vertical
2 *	2485.00	93.38	55.74	37.64	54.00	39.38	328	183 Average	Vertical
3	2802.89	42.30	4.10	38.20	54.00	-11.70	328	183 Average	Vertical

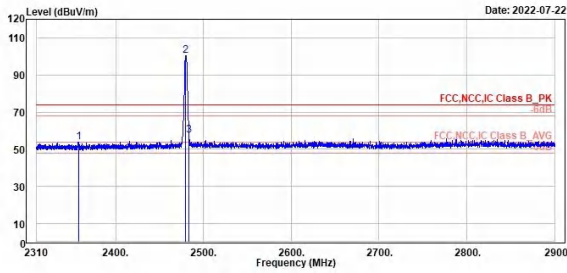
ZIGBEE 2Mbps

CH26 (Horizontal) Peak

CH26 (Vertical) Peak



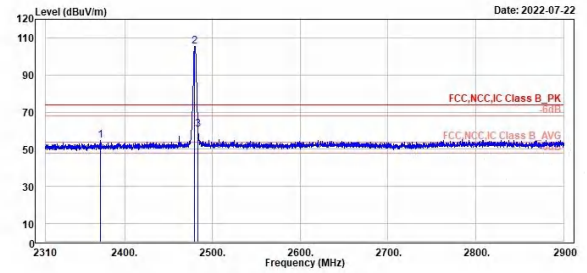
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2358.58	53.78	16.37	37.41	74.00	-20.22	211	208	Peak	Horizontal		
2 *	2488.00	100.45	62.66	37.79	74.00	26.45	211	208	Peak	Horizontal		
3	2483.58	57.29	19.49	37.80	74.00	-16.71	211	208	Peak	Horizontal		



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Peak	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	2372.89	54.69	17.20	37.49	74.00	-19.31	281	176	Peak	Vertical		
2 *	2480.00	105.36	67.57	37.79	74.00	31.36	281	176	Peak	Vertical		
3	2483.46	60.88	23.08	37.80	74.00	-13.12	281	176	Peak	Vertical		

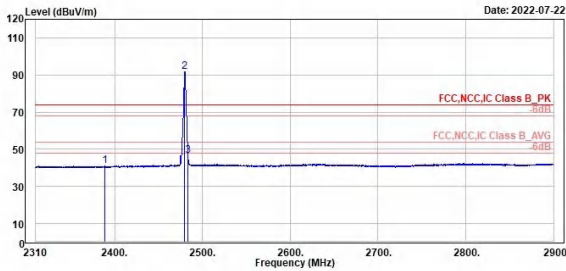
ZIGBEE 2Mbps

CH26 (Horizontal) Average

CH26 (Vertical) Average



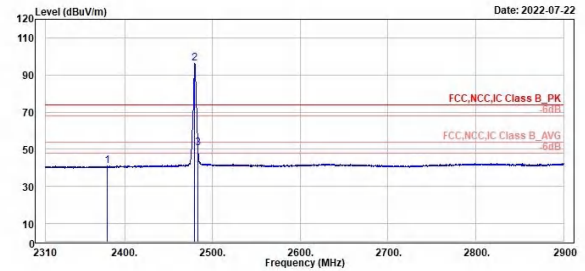
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1	2	3									
Level	Level	Level									
Factor	Factor	Factor									
Limit	Limit	Limit									
Over	Over	Over									
APos	APos	APos									
TPos	TPos	TPos									
Remark	Remark	Remark									
Pol/Phase	Pol/Phase	Pol/Phase									
Note	Note	Note									
Freq	Level	Read									
MHz	dBuV/m	Level									
		Factor									
		dB/m									
		dB									
		dBuV/m									
		dB									
		cm									
		deg									
1	2389.38	48.97	3.39	37.58	54.00	-13.03	211	208	Average	Horizontal	
2 *	2488.00	91.81	54.02	37.79	54.00	37.81	211	208	Average	Horizontal	
3	2483.46	46.68	8.88	37.80	54.00	-7.32	211	208	Average	Horizontal	



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1	2	3									
Level	Level	Level									
Factor	Factor	Factor									
Limit	Limit	Limit									
Over	Over	Over									
APos	APos	APos									
TPos	TPos	TPos									
Remark	Remark	Remark									
Pol/Phase	Pol/Phase	Pol/Phase									
Note	Note	Note									
Freq	Level	Read									
MHz	dBuV/m	Level									
		Factor									
		dB/m									
		dB									
		dBuV/m									
		dB									
		cm									
		deg									
1	2389.38	48.97	3.44	37.53	54.00	-13.03	281	176	Average	Vertical	
2 *	2488.00	96.48	58.61	37.79	54.00	42.48	281	176	Average	Vertical	
3 !	2483.46	50.76	12.96	37.80	54.00	-3.24	281	176	Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

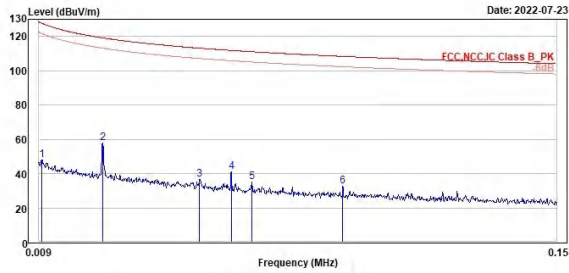
ZIGBEE 2Mbps

CH17 (Open) 9kHz~150kHz

CH17 (Open) 150kHz~30MHz



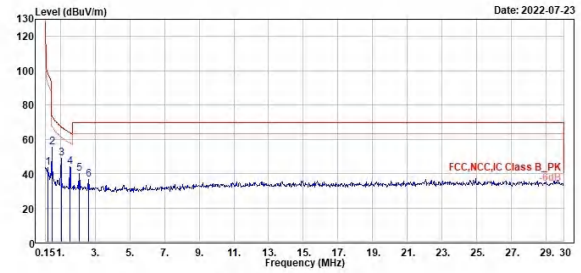
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	48.10	30.34	17.76	127.72	-79.62	100	322 QP	Open
2	0.03	57.94	38.75	19.19	119.13	-61.19	100	15 QP	Open
3	0.05	36.50	17.25	19.25	113.13	-76.63	100	40 QP	Open
4	0.06	41.03	21.97	19.06	111.82	-70.79	100	182 QP	Open
5	0.07	35.22	16.28	18.94	111.08	-75.86	100	179 QP	Open
6	0.09	32.54	14.15	18.39	106.34	-75.00	100	164 QP	Open



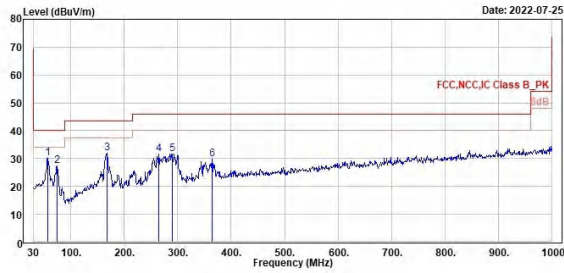
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.30	43.69	24.75	18.94	98.00	-54.39	100	150 QP	Open
2	0.51	55.12	36.17	18.95	73.48	-18.36	100	156 QP	Open
3	1.05	48.76	29.49	19.27	67.22	-18.46	100	163 QP	Open
4	1.55	43.78	24.43	19.35	63.78	-20.00	100	164 QP	Open
5	2.09	40.24	20.82	19.42	69.50	-29.26	100	156 QP	Open
6	2.63	36.58	17.10	19.48	69.50	-32.92	100	173 QP	Open

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
ZIGBEE 2Mbps
CH17 (Horizontal)
CH17 (Vertical)

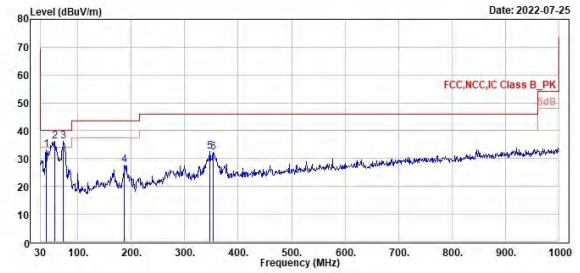

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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	57.16	30.25	36.96	-6.71	40.00	-9.75	105	360 QP	Horizontal
2	73.65	27.25	36.55	-9.30	40.00	-12.75	200	250 QP	Horizontal
3	167.74	32.09	38.08	-5.99	43.50	-11.41	200	294 QP	Horizontal
4	263.77	31.68	37.84	-6.16	46.00	-14.32	100	231 QP	Horizontal
5	289.96	31.77	36.84	-5.07	46.00	-14.23	100	89 QP	Horizontal
6	363.68	29.68	33.29	-3.61	46.00	-16.32	100	69 QP	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	48.67	33.28	39.53	-6.25	40.00	-6.72	100	355 QP	Vertical
2	57.16	36.28	42.99	-6.71	40.00	-3.72	100	361 QP	Vertical
3	72.68	36.10	45.12	-9.02	40.00	-3.90	100	355 QP	Vertical
4	187.14	27.56	35.70	-8.14	43.50	-15.94	100	139 QP	Vertical
5	346.22	32.60	36.55	-3.95	46.00	-13.40	100	219 QP	Vertical
6	353.01	32.15	36.00	-3.85	46.00	-13.85	100	219 QP	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

ZIGBEE 250kbps

CH17 (Horizontal)

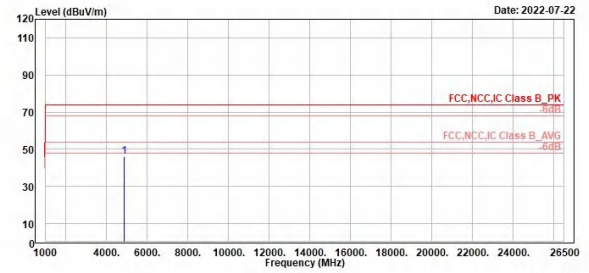
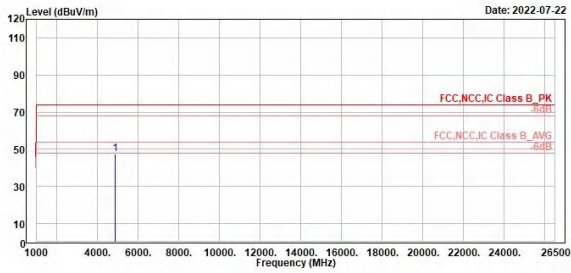
CH17 (Vertical)



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4878.00	47.36	57.12	-9.76	74.00	-26.64	200	165 Peak	Horizontal	

Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4878.00	46.26	56.02	-9.76	74.00	-27.74	200	106 Peak	Vertical	

ZIGBEE 2Mbps

CH17 (Horizontal)

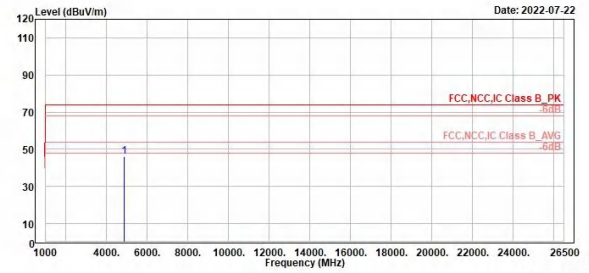
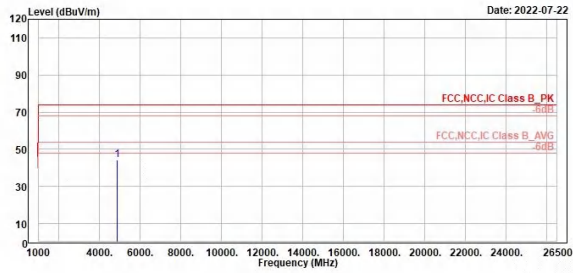
CH17 (Vertical)



TÜV Rheinland Taiwan Ltd.
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Tel: +886-2172-1000 Fax: +886-2172-1322



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4878.00	44.43	54.19	-9.76	74.00	-29.57	200	192 Peak	Horizontal	

Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4878.00	45.94	55.70	-9.76	74.00	-28.06	300	142 Peak	Vertical	

Test Results of Radiated Spurious Emissions by PCB Antenna

(ECC)_2nd Source_ Buck PWM On

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

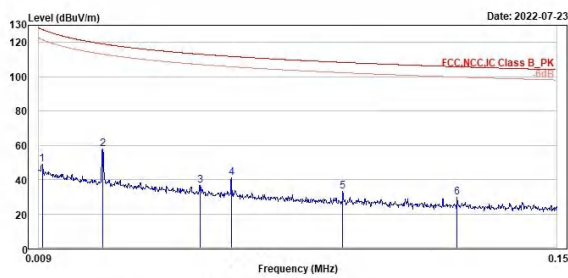
ZIGBEE 250kHz

CH17 (Open) 9kHz~150kHz

CH17 (Open) 150kHz~30MHz



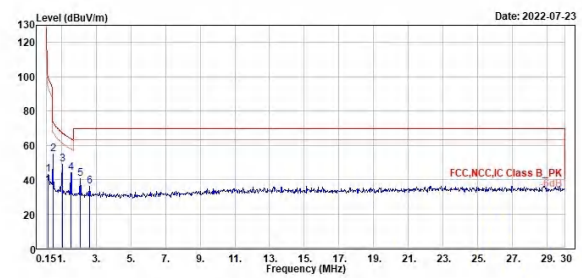
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.01	48.88	31.17	17.71	127.68	-78.72	100	170	QP	Open	
2	0.03	57.76	36.57	19.19	119.13	-61.37	100	201	QP	Open	
3	0.05	36.73	17.49	19.24	113.11	-76.38	100	114	QP	Open	
4	0.06	40.82	21.76	19.06	111.82	-71.00	100	64	QP	Open	
5	0.09	32.96	14.57	18.39	108.34	-75.38	100	187	QP	Open	
6	0.12	29.73	11.43	18.30	105.80	-76.07	100	150	QP	Open	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.24	42.97	24.25	18.72	100.01	-57.04	100	163	QP	Open	
2	0.51	54.81	35.86	18.95	73.48	-18.67	100	162	QP	Open	
3	1.05	48.83	29.56	19.27	67.22	-18.39	100	153	QP	Open	
4	1.55	43.97	24.62	19.35	63.78	-19.81	100	158	QP	Open	
5	2.09	40.63	21.21	19.42	69.50	-28.87	100	165	QP	Open	
6	2.63	35.86	16.38	19.48	69.50	-33.64	100	165	QP	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

ZIGBEE 250kHz

CH17 (Horizontal)

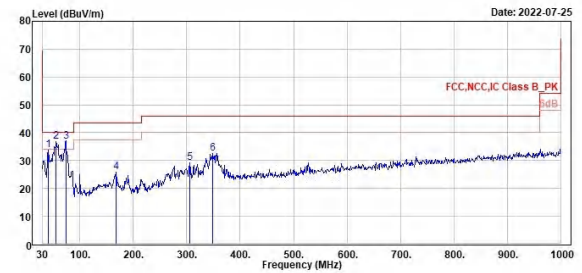
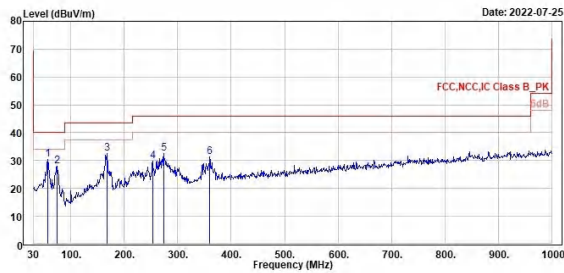
CH17 (Vertical)



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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	57.16	30.45	37.16	-6.71	40.00	-9.55	200	63 QP	Horizontal
2	73.65	28.04	37.34	-9.30	40.00	-11.96	200	278 QP	Horizontal
3	167.74	32.61	38.60	-5.99	43.50	-10.89	200	270 QP	Horizontal
4	253.18	29.82	36.22	-6.40	46.00	-16.18	100	256 QP	Horizontal
5	273.47	32.65	38.20	-5.55	46.00	-13.35	100	73 QP	Horizontal
6	359.80	31.37	35.12	-3.75	46.00	-14.63	100	255 QP	Horizontal

Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	48.67	33.69	39.04	-6.25	40.00	-6.31	100	160 QP	Vertical
2	55.22	36.69	43.21	-6.52	40.00	-3.31	128	360 QP	Vertical
3	73.65	36.93	46.23	-9.30	40.00	-3.07	100	351 QP	Vertical
4	167.74	25.87	31.86	-5.99	43.50	-17.63	100	231 QP	Vertical
5	305.48	29.16	33.90	-4.74	46.00	-16.84	100	123 QP	Vertical
6	349.13	32.65	36.56	-3.91	46.00	-13.35	100	142 QP	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

ZIGBEE 250kHz

CH17 (Horizontal)

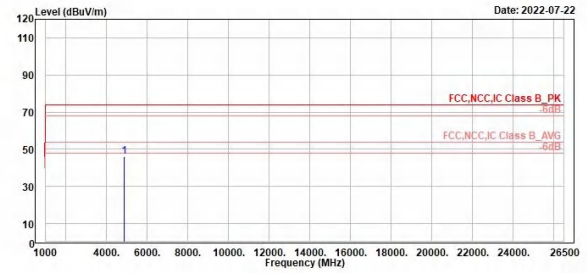
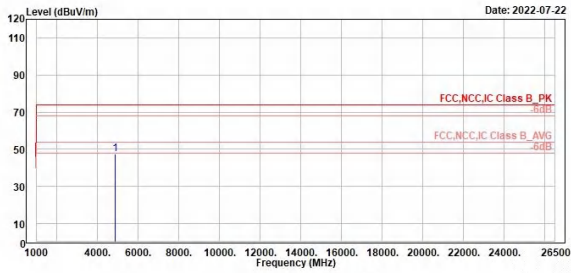
CH17 (Vertical)



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 Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4870.00	47.44	57.20	-9.76	74.00	-26.56	0	0 Peak	Horizontal	

Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4870.00	46.24	56.00	-9.76	74.00	-27.76	200	239 Peak	Vertical	

Worst Band (ECC)

(Line)

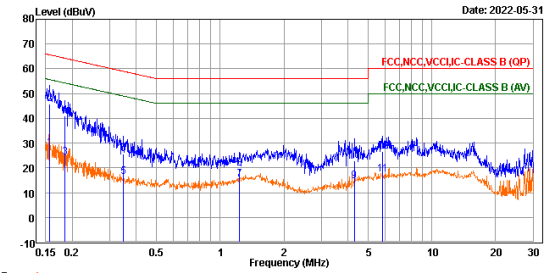
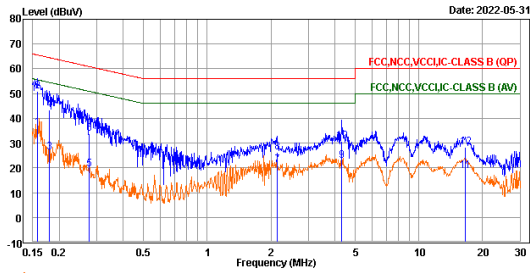
(Neutral)



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Tel.:+886-2112-1000 Fax:+886-2112-1322



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No. 458-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel.:+886-2112-1000 Fax:+886-2112-1322



Trace: 1

Line	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	36.35	26.74	9.61	55.59	-19.24	Average	line1	
2	0.16	51.04	41.43	9.61	65.59	-14.55	QP	line1	
3	0.18	26.37	16.76	9.61	54.51	-28.14	Average	line1	
4	0.18	43.50	33.89	9.61	64.51	-21.01	QP	line1	
5	0.28	19.54	9.93	9.61	50.91	-31.37	Average	line1	
6	0.28	33.92	24.31	9.61	60.91	-26.99	QP	line1	
7	2.14	21.05	11.40	9.65	46.00	-24.95	Average	line1	
8	2.14	26.23	16.58	9.65	56.00	-19.77	QP	line1	
9	4.32	22.97	13.29	9.68	46.00	-23.03	Average	line1	
10	4.32	30.76	21.08	9.68	56.00	-25.24	QP	line1	
11	16.58	18.92	9.20	9.72	50.00	-31.08	Average	line1	
12	16.58	28.31	18.59	9.72	60.00	-31.69	QP	line1	

Trace: 1

Line	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	27.93	18.34	9.59	55.63	-27.70	Average	neutral	
2	0.16	45.79	36.20	9.59	65.63	-19.84	QP	neutral	
3	0.18	24.07	14.48	9.59	54.30	-30.23	Average	neutral	
4	0.18	41.04	31.45	9.59	64.30	-23.26	QP	neutral	
5	0.35	16.32	6.72	9.60	48.96	-32.64	Average	neutral	
6	0.35	25.53	15.93	9.60	58.96	-33.43	QP	neutral	
7	1.24	15.49	5.89	9.60	46.00	-30.51	Average	neutral	
8	1.24	19.80	10.20	9.60	56.00	-36.20	QP	neutral	
9	4.29	14.76	5.09	9.67	46.00	-31.24	Average	neutral	
10	4.29	22.89	13.22	9.67	56.00	-33.11	QP	neutral	
11	5.85	17.38	7.69	9.69	50.00	-32.62	Average	neutral	
12	5.85	26.70	17.01	9.69	60.00	-33.30	QP	neutral	

Test Results of Radiated Spurious Emissions by PCB Antenna (Non-ECC)

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

ZIGBEE 250kHz																																																																																																																																																																	
CH26 (Open) 9kHz~150kHz	CH26 (Open) 150kHz~30MHz																																																																																																																																																																
<p>TUV Rheinland Taiwan Ltd. No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel:+886-2172-1000 Fax:+886-2172-1322</p> <p>Level (dBuV/m) Date: 2022-05-30</p> <p>FCC,NCC,IC Class B PK</p> <p>Frequency (MHz)</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Read</th> <th>Limit</th> <th>Over</th> <th>APos</th> <th>TPos</th> <th>Remark</th> <th>Pol/Phase</th> <th>Note</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dBuV/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>0.03</td><td>62.29</td><td>43.11</td><td>19.18</td><td>119.18</td><td>-56.89</td><td>100</td><td>87 QP</td><td>Open</td></tr> <tr><td>2</td><td>0.05</td><td>41.76</td><td>22.51</td><td>19.25</td><td>113.13</td><td>-71.37</td><td>100</td><td>160 QP</td><td>Open</td></tr> <tr><td>3</td><td>0.06</td><td>40.19</td><td>21.13</td><td>19.06</td><td>111.82</td><td>-71.63</td><td>100</td><td>52 QP</td><td>Open</td></tr> <tr><td>4</td><td>0.08</td><td>39.29</td><td>20.63</td><td>18.66</td><td>109.59</td><td>-70.30</td><td>100</td><td>160 QP</td><td>Open</td></tr> <tr><td>5</td><td>0.10</td><td>33.53</td><td>15.23</td><td>18.30</td><td>107.94</td><td>-74.41</td><td>100</td><td>154 QP</td><td>Open</td></tr> <tr><td>6</td><td>0.11</td><td>35.84</td><td>17.60</td><td>18.24</td><td>107.12</td><td>-71.28</td><td>100</td><td>164 QP</td><td>Open</td></tr> </tbody> </table>	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			1	0.03	62.29	43.11	19.18	119.18	-56.89	100	87 QP	Open	2	0.05	41.76	22.51	19.25	113.13	-71.37	100	160 QP	Open	3	0.06	40.19	21.13	19.06	111.82	-71.63	100	52 QP	Open	4	0.08	39.29	20.63	18.66	109.59	-70.30	100	160 QP	Open	5	0.10	33.53	15.23	18.30	107.94	-74.41	100	154 QP	Open	6	0.11	35.84	17.60	18.24	107.12	-71.28	100	164 QP	Open	<p>TUV Rheinland Taiwan Ltd. No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel:+886-2172-1000 Fax:+886-2172-1322</p> <p>Level (dBuV/m) Date: 2022-05-30</p> <p>FCC,NCC,IC Class B PK</p> <p>Frequency (MHz)</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Read</th> <th>Limit</th> <th>Over</th> <th>APos</th> <th>TPos</th> <th>Remark</th> <th>Pol/Phase</th> <th>Note</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dBuV/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>0.45</td><td>54.14</td><td>35.19</td><td>18.95</td><td>94.57</td><td>-40.43</td><td>100</td><td>141 QP</td><td>Open</td></tr> <tr><td>2</td><td>0.93</td><td>47.52</td><td>28.29</td><td>19.23</td><td>68.27</td><td>-20.75</td><td>100</td><td>141 QP</td><td>Open</td></tr> <tr><td>3</td><td>1.40</td><td>43.23</td><td>23.90</td><td>19.33</td><td>64.66</td><td>-21.43</td><td>100</td><td>141 QP</td><td>Open</td></tr> <tr><td>4</td><td>3.70</td><td>31.83</td><td>12.36</td><td>19.47</td><td>69.50</td><td>-37.67</td><td>100</td><td>176 QP</td><td>Open</td></tr> <tr><td>5</td><td>10.27</td><td>33.86</td><td>12.34</td><td>21.52</td><td>69.50</td><td>-35.64</td><td>100</td><td>126 QP</td><td>Open</td></tr> <tr><td>6</td><td>22.72</td><td>35.07</td><td>12.75</td><td>22.32</td><td>69.50</td><td>-34.43</td><td>100</td><td>39 QP</td><td>Open</td></tr> </tbody> </table>	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			1	0.45	54.14	35.19	18.95	94.57	-40.43	100	141 QP	Open	2	0.93	47.52	28.29	19.23	68.27	-20.75	100	141 QP	Open	3	1.40	43.23	23.90	19.33	64.66	-21.43	100	141 QP	Open	4	3.70	31.83	12.36	19.47	69.50	-37.67	100	176 QP	Open	5	10.27	33.86	12.34	21.52	69.50	-35.64	100	126 QP	Open	6	22.72	35.07	12.75	22.32	69.50	-34.43	100	39 QP	Open
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note																																																																																																																																																								
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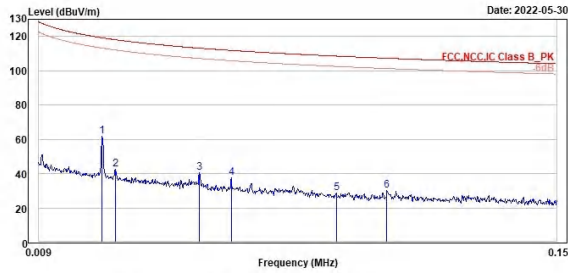
ZIGBEE 250kHz

CH26 (Close) 9kHz~150kHz

CH26 (Close) 150kHz~30MHz



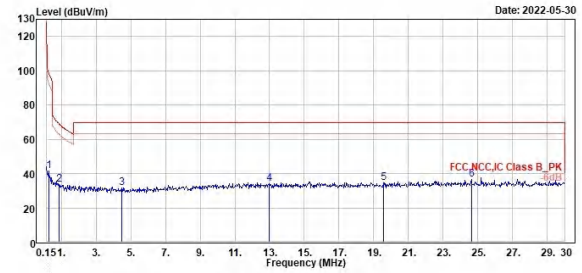
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	61.91	42.73	19.18	119.18	-57.27	100	326 QP	Close
2	0.03	42.27	22.77	19.50	118.69	-75.82	100	199 QP	Close
3	0.05	40.56	21.31	19.25	113.13	-72.57	100	30 QP	Close
4	0.06	37.33	18.27	19.06	111.82	-74.49	100	83 QP	Close
5	0.09	28.44	10.01	18.43	108.50	-80.06	100	3 QP	Close
6	0.10	30.02	11.79	18.23	107.28	-77.26	100	193 QP	Close



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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	0.27	41.73	22.91	18.82	98.99	-57.26	100	112 QP	Close
2	0.87	33.61	14.42	19.19	68.85	-35.24	100	112 QP	Close
3	4.48	31.70	12.30	19.40	69.50	-37.80	100	1 QP	Close
4	12.96	34.11	12.40	21.71	69.50	-35.39	100	105 QP	Close
5	19.58	34.64	12.47	22.17	69.50	-34.86	100	187 QP	Close
6	24.63	36.51	14.10	22.41	69.50	-32.99	100	131 QP	Close

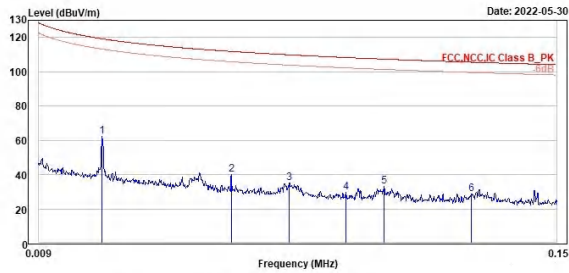
ZIGBEE 2Mbps

CH26 (Open) 9kHz~150kHz

CH26 (Open) 150kHz~30MHz



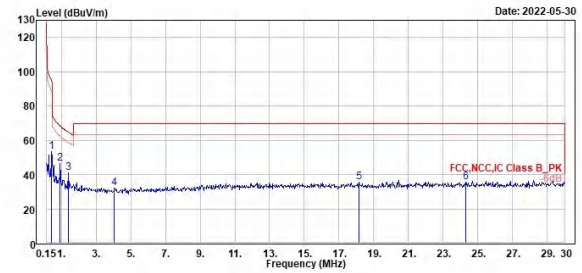
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Tel: +886-2172-1000 Fax: +886-2172-1322



Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.03	62.16	42.98	19.18	119.18	-57.02	100	166	QP	Open	
2	0.06	40.01	20.95	19.06	111.82	-71.81	100	360	QP	Open	
3	0.08	35.29	16.58	18.71	109.84	-74.55	100	164	QP	Open	
4	0.09	29.84	11.47	18.37	108.26	-78.42	100	76	QP	Open	
5	0.10	32.89	14.66	18.23	107.34	-74.45	100	180	QP	Open	
6	0.13	28.86	10.55	18.31	105.53	-76.67	100	30	QP	Open	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.45	53.55	34.68	18.95	94.57	-41.02	100	166	QP	Open	
2	0.93	46.41	27.18	19.23	68.27	-21.86	100	166	QP	Open	
3	1.40	41.08	21.75	19.33	64.66	-23.58	100	166	QP	Open	
4	4.06	32.36	12.92	19.44	69.50	-37.14	100	30	QP	Open	
5	18.15	35.35	13.28	22.07	69.50	-34.15	100	360	QP	Open	
6	24.30	35.74	13.35	22.39	69.50	-33.76	100	322	QP	Open	

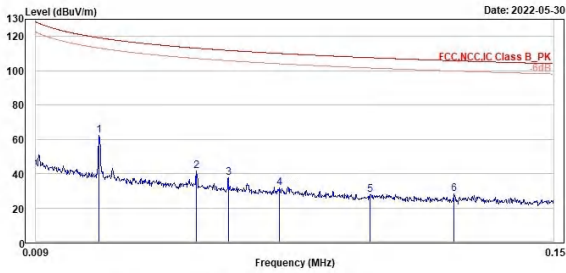
ZIGBEE 2Mbps

CH26 (Close) 9kHz~150kHz

CH26 (Close) 150kHz~30MHz



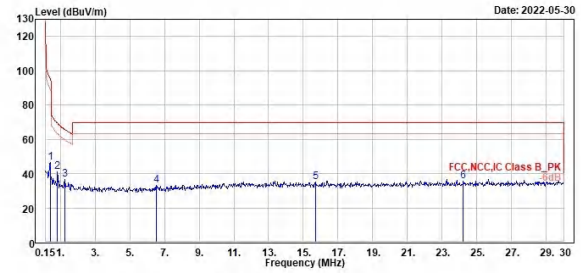
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	62.33	43.15	19.18	119.18	-56.85	100	48 QP	Close
2	0.05	41.58	22.33	19.25	113.13	-71.55	100	93 QP	Close
3	0.06	37.58	18.52	19.06	111.82	-74.24	100	155 QP	Close
4	0.08	31.74	12.99	18.75	110.86	-78.32	100	4 QP	Close
5	0.10	27.79	9.57	18.22	107.59	-79.80	100	129 QP	Close
6	0.12	28.23	9.93	18.30	105.80	-77.57	100	46 QP	Close



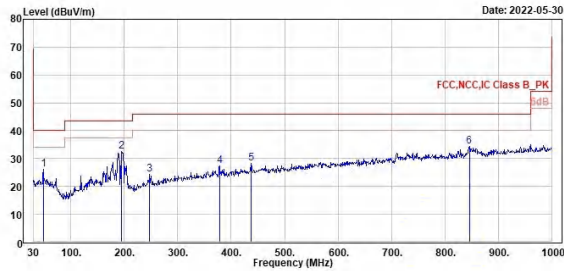
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 Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.42	46.40	27.54	18.95	95.17	-48.68	100	83 QP	Close
2	0.84	41.04	21.88	19.16	69.15	-28.11	100	83 QP	Close
3	1.28	36.41	17.10	19.31	65.43	-29.82	100	83 QP	Close
4	6.54	33.05	13.84	20.01	69.50	-36.45	100	294 QP	Close
5	15.73	35.01	13.11	21.90	69.50	-34.49	100	353 QP	Close
6	24.21	35.55	13.16	22.39	69.50	-33.95	100	314 QP	Close

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
ZIGBEE 250kHz
CH26 (Horizontal)
CH26 (Vertical)

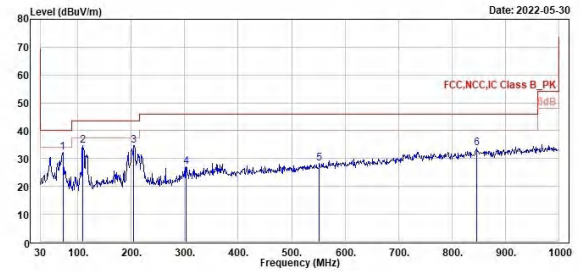

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 Tel: +886-2172-1000 Fax: +886-2172-1322



Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	48.43	26.09	32.18	-6.09	46.00	-13.91	100	178	QP	Horizontal	
2	194.98	32.58	41.08	-8.58	43.50	-11.00	100	215	QP	Horizontal	
3	247.28	24.31	38.91	-6.60	46.00	-21.69	100	121	QP	Horizontal	
4	378.23	27.27	38.48	-3.21	46.00	-18.73	100	54	QP	Horizontal	
5	437.48	28.29	38.58	-2.29	46.00	-17.71	100	85	QP	Horizontal	
6	845.77	34.31	38.58	3.73	46.00	-11.69	200	98	QP	Horizontal	



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 Tel: +886-2172-1000 Fax: +886-2172-1322



Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	71.71	32.09	41.08	-8.91	48.00	-7.91	100	306	QP	Vertical	
2	188.57	34.82	44.54	-9.72	43.50	-8.68	100	228	QP	Vertical	
3	284.60	34.81	43.84	-8.23	43.50	-8.69	100	157	QP	Vertical	
4	382.57	26.93	31.67	-4.74	46.00	-19.07	100	114	QP	Vertical	
5	551.86	28.21	28.99	-0.78	46.00	-17.79	200	328	QP	Vertical	
6	846.74	33.62	29.88	3.74	46.00	-12.38	200	346	QP	Vertical	

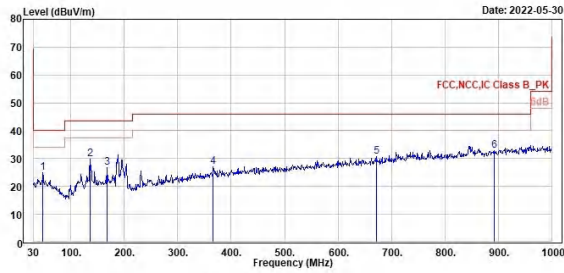
ZIGBEE 1Mbps

CH26 (Horizontal)

CH26 (Vertical)



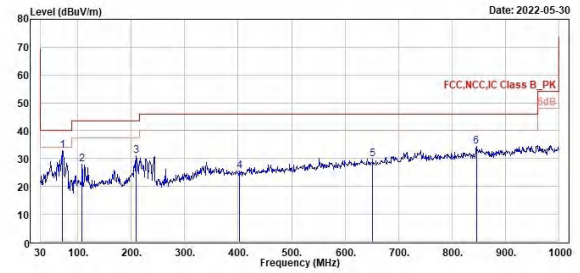
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	47.46	24.95	30.90	-5.95	40.00	-15.05	100	324 QP	Horizontal
2	135.73	29.80	36.46	-6.66	43.50	-13.70	100	303 QP	Horizontal
3	167.74	26.62	32.61	-5.99	43.50	-16.88	200	277 QP	Horizontal
4	366.59	26.99	30.51	-3.52	46.00	-19.01	100	64 QP	Horizontal
5	672.14	30.61	29.56	1.05	46.00	-15.39	100	20 QP	Horizontal
6	893.30	32.73	28.01	4.72	46.00	-13.27	100	360 QP	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	70.74	33.00	41.72	-8.72	40.00	-7.00	100	353 QP	Vertical
2	107.60	27.85	37.72	-9.87	43.50	-15.65	200	273 QP	Vertical
3	209.45	30.88	39.06	-8.18	43.50	-12.62	100	155 QP	Vertical
4	402.48	25.62	28.55	-2.93	46.00	-20.38	100	123 QP	Vertical
5	651.77	29.85	29.10	0.75	46.00	-16.15	200	132 QP	Vertical
6	845.77	34.31	30.58	3.73	46.00	-11.69	151	3 QP	Vertical

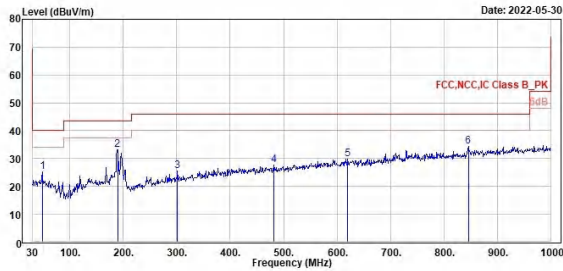
ZIGBEE 2Mbps

CH26 (Horizontal)

CH26 (Vertical)



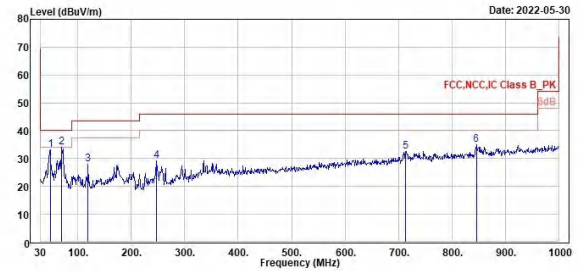
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Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	48.43	25.24	31.33	-6.09	48.00	-14.76	280	94 QP	Horizontal
2	189.08	33.13	41.45	-8.32	43.50	-10.37	280	246 QP	Horizontal
3	301.60	25.56	30.29	-4.73	46.00	-20.44	100	14 QP	Horizontal
4	481.05	27.70	29.72	-2.02	46.00	-18.30	100	86 QP	Horizontal
5	619.76	29.85	29.31	0.54	46.00	-16.15	100	42 QP	Horizontal
6	845.77	34.33	30.60	3.73	46.00	-11.67	162	12 QP	Horizontal



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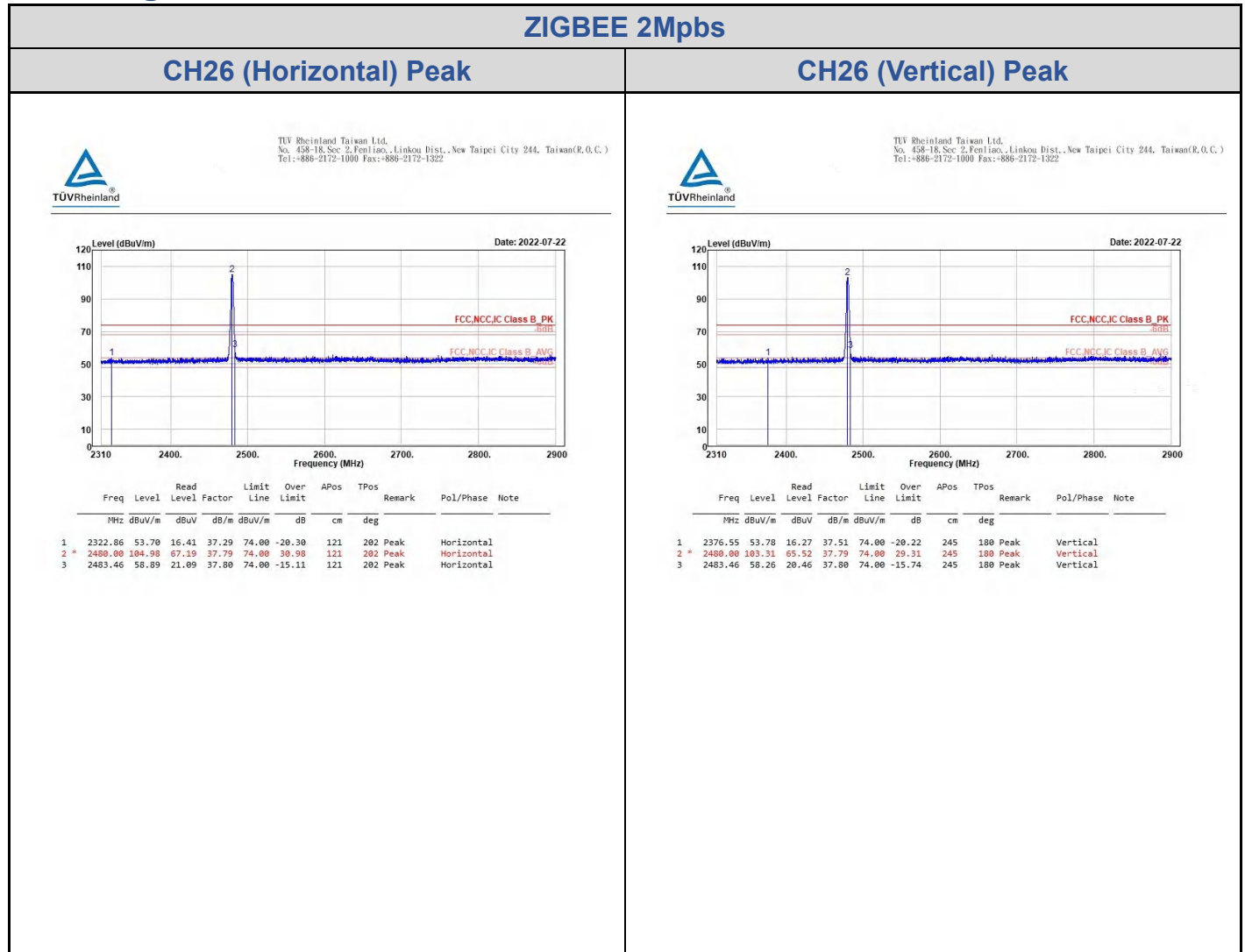


Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	48.43	33.23	39.32	-6.09	48.00	-6.77	280	349 QP	Vertical
2	69.77	34.15	42.71	-8.56	48.00	-5.85	152	33 QP	Vertical
3	119.24	27.87	36.46	-8.59	43.50	-15.63	100	325 QP	Vertical
4	246.31	29.07	35.71	-6.64	46.00	-16.93	100	321 QP	Vertical
5	713.85	32.48	30.74	1.74	46.00	-13.52	100	332 QP	Vertical
6	845.77	35.12	31.39	3.73	46.00	-10.88	158	35 QP	Vertical

Test Results of Radiated Spurious Emissions by PCB Antenna

(Non-ECC)_2nd Source

Band Edges, 2.31GHz ~ 2.9GHz



Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

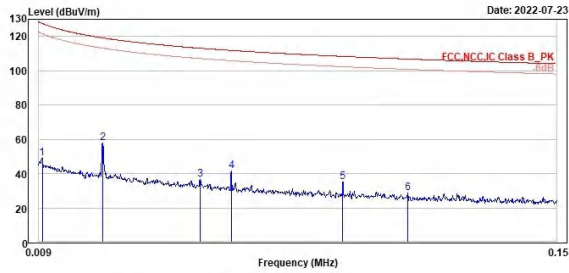
ZIGBEE 2Mbps

CH26 (Open) 9kHz~150kHz

CH26 (Open) 150kHz~30MHz



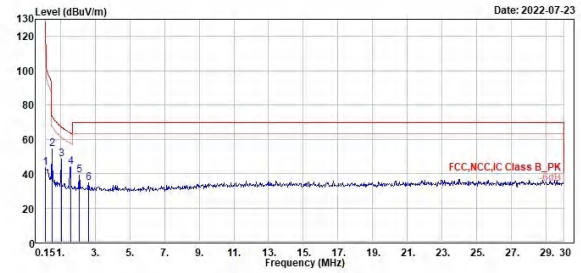
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	49.02	31.31	17.71	127.60	-78.58	100	210 QP	Open
2	0.03	57.97	38.78	19.19	119.13	-61.16	100	143 QP	Open
3	0.05	36.39	17.15	19.24	113.11	-76.72	100	33 QP	Open
4	0.06	41.39	22.33	19.06	111.82	-70.43	100	47 QP	Open
5	0.09	35.15	16.76	18.39	108.34	-73.19	100	182 QP	Open
6	0.11	28.88	16.63	18.25	106.82	-77.94	100	270 QP	Open

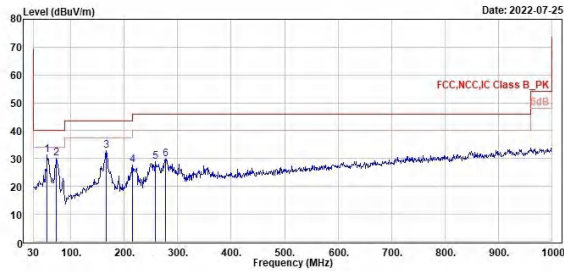


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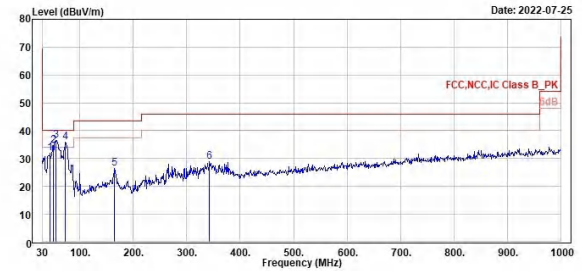


Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.15	43.72	25.32	18.40	104.00	-60.36	100	231 QP	Open
2	0.51	54.48	35.53	18.95	73.48	-19.00	100	164 QP	Open
3	1.05	48.28	29.01	19.27	67.22	-18.94	100	162 QP	Open
4	1.58	44.09	24.74	19.35	63.62	-19.53	100	164 QP	Open
5	2.09	39.25	19.83	19.42	69.50	-30.25	100	168 QP	Open
6	2.63	34.46	14.98	19.48	69.50	-35.04	100	176 QP	Open

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
ZIGBEE 2Mbps
CH26 (Horizontal)
CH26 (Vertical)

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1	2	3	4	5	6				
Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
31.27	37.79	-6.52	40.00	-8.73	200	90	QP	Horizontal	
30.20	39.22	-9.02	40.00	-9.80	200	307	QP	Horizontal	
32.98	38.99	-6.01	43.50	-10.52	200	268	QP	Horizontal	
27.56	35.70	-8.14	43.50	-15.94	100	294	QP	Horizontal	
28.91	35.25	-6.34	46.00	-17.09	100	267	QP	Horizontal	
29.87	35.26	-5.39	46.00	-16.13	100	270	QP	Horizontal	


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1	2	3	4	5	6				
Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
31.89	37.84	-5.95	40.00	-8.11	100	338	QP	Vertical	
34.74	40.86	-6.12	40.00	-5.26	102	369	QP	Vertical	
36.64	43.16	-6.52	40.00	-3.36	100	7	QP	Vertical	
36.04	45.06	-9.02	40.00	-3.96	100	237	QP	Vertical	
26.40	32.32	-5.92	43.50	-17.10	100	278	QP	Vertical	
28.81	32.76	-3.95	46.00	-17.19	100	168	QP	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

ZIGBEE 2Mbps

CH26 (Horizontal)

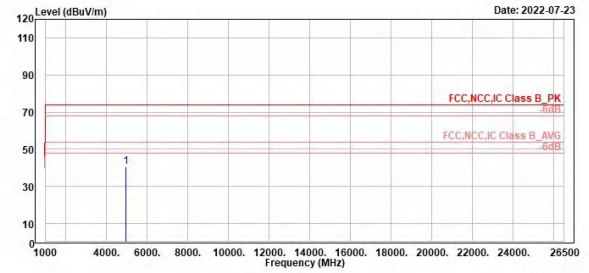
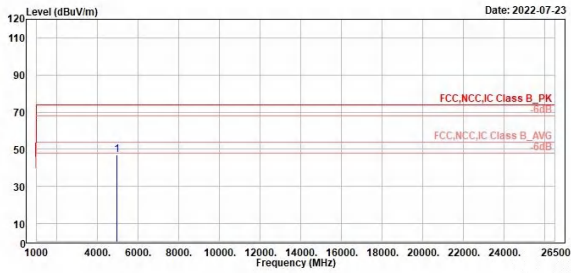
CH26 (Vertical)



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 Tel: +886-2172-1000 Fax: +886-2172-1322



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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 Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4960.00	47.01	56.55	-9.54	74.00	-26.99	100	43 Peak	Horizontal	

Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4960.00	40.40	49.94	-9.54	74.00	-33.60	400	212 Peak	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

Worst Band (Non-ECC)

(Line)

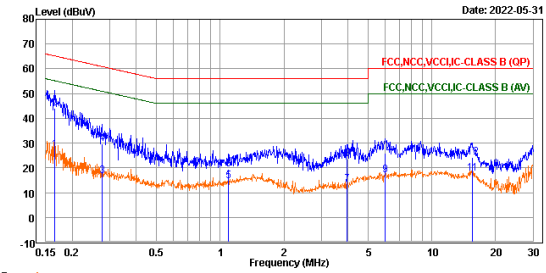
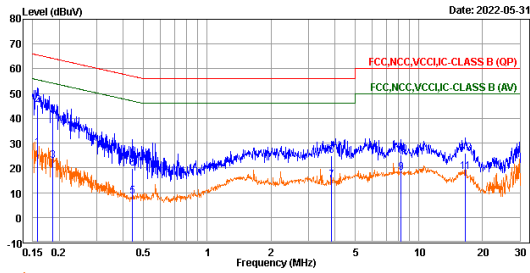
(Neutral)



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 No. 458-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
 Tel.: +886-2112-1000 Fax: +886-2112-1322



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 No. 458-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
 Tel.: +886-2112-1000 Fax: +886-2112-1322



Trace: 1

Line	Freq (MHz)	Level (dBuV)	Read Level (dBuV)	Factor (dB)	Limit Line (dB)	Over Limit (dB)	Remark	Pol/Phase	Note
1	0.16	27.82	18.21	9.61	55.59	-27.77	Average	line1	
2	0.16	45.57	35.96	9.61	65.59	-20.02	QP	line1	
3	0.19	23.02	13.41	9.61	54.18	-31.16	Average	line1	
4	0.19	40.61	31.00	9.61	64.18	-23.57	QP	line1	
5	0.44	8.35	-1.27	9.62	46.98	-38.63	Average	line1	
6	0.44	19.60	9.98	9.62	56.98	-37.38	QP	line1	
7	3.85	14.86	5.19	9.67	46.00	-31.14	Average	line1	
8	3.85	24.94	15.27	9.67	56.00	-31.06	QP	line1	
9	8.21	18.22	8.51	9.71	50.00	-31.78	Average	line1	
10	8.21	25.13	15.42	9.71	60.00	-34.87	QP	line1	
11	16.50	18.40	8.68	9.72	50.00	-31.60	Average	line1	
12	16.50	25.80	16.08	9.72	60.00	-34.20	QP	line1	

Trace: 1

Line	Freq (MHz)	Level (dBuV)	Read Level (dBuV)	Factor (dB)	Limit Line (dB)	Over Limit (dB)	Remark	Pol/Phase	Note
1	0.16	27.22	17.63	9.59	55.21	-27.99	Average	neutral	
2	0.16	44.22	34.63	9.59	65.21	-20.99	QP	neutral	
3	0.28	16.81	7.22	9.59	50.91	-34.10	Average	neutral	
4	0.28	29.71	20.12	9.59	60.91	-31.20	QP	neutral	
5	1.09	14.50	4.90	9.60	46.00	-31.50	Average	neutral	
6	1.09	19.35	9.75	9.60	56.00	-36.65	QP	neutral	
7	3.97	13.37	3.71	9.66	46.00	-32.63	Average	neutral	
8	3.97	23.67	14.01	9.66	56.00	-32.33	QP	neutral	
9	6.03	17.09	7.40	9.69	50.00	-32.91	Average	neutral	
10	6.03	26.10	16.41	9.69	60.00	-33.90	QP	neutral	
11	15.54	17.88	8.10	9.78	50.00	-32.12	Average	neutral	
12	15.54	24.08	14.30	9.78	60.00	-35.92	QP	neutral	