

Appendix D: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test for PIFA Antenna

Main Source, ECC Mode

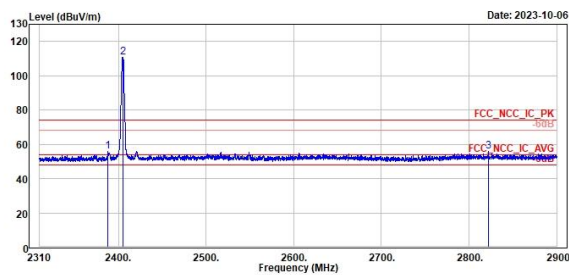
Band Edges, 2.31GHz ~ 2.9GHz

Zigbee_250kHz

Low Channel (Horizontal) Peak



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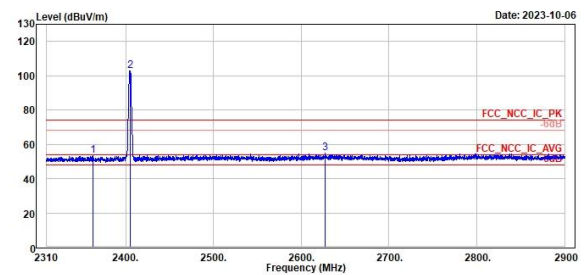


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2388.12	55.75	18.58	37.17	74.00	-18.25		287	205	Peak	Horizontal	
2 *	2405.00	110.62	73.42	37.20	74.00	36.62		287	205	Peak	Horizontal	
3	2822.24	55.62	17.86	37.76	74.00	-18.38		287	205	Peak	Horizontal	

Low Channel (Vertical) Peak



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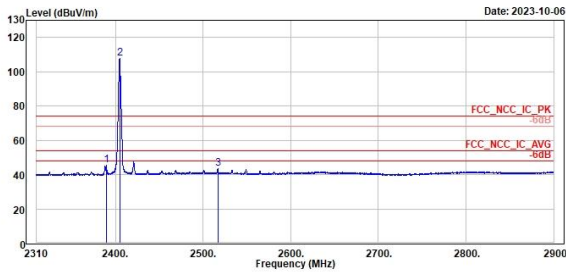
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2362.51	53.32	16.13	37.19	74.00	-20.68		355	301	Peak	Vertical	
2 *	2405.00	102.87	65.67	37.20	74.00	28.87		355	301	Peak	Vertical	
3	2627.54	54.69	17.07	37.62	74.00	-19.31		355	301	Peak	Vertical	

Zigbee_250kHz

Low Channel (Horizontal) Average



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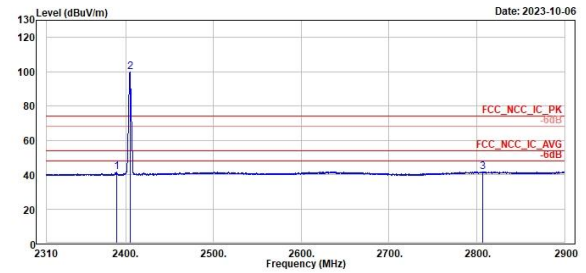


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.77	45.67	8.50	37.17	54.00	-8.33	287	205	Average	Horizontal		
2 *	2405.00	107.55	70.35	37.20	54.00	53.55	287	205	Average	Horizontal		
3	2516.85	43.29	5.78	37.51	54.00	-10.71	287	205	Average	Horizontal		

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	2389.65	41.73	4.56	37.17	54.00	-12.27	355	301	Average	Vertical		
2 *	2405.00	99.84	62.64	37.20	54.00	45.84	355	301	Average	Vertical		
3	2806.31	41.72	3.98	37.74	54.00	-12.28	355	301	Average	Vertical		

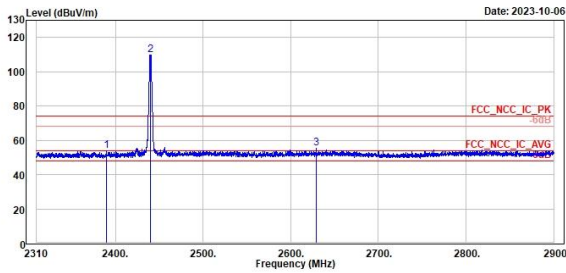
Zigbee_250kHz

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



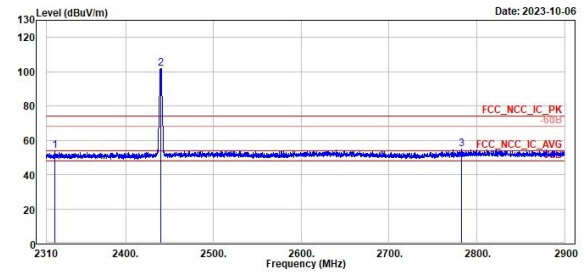
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2398.00	53.78	16.61	37.17	74.00	-20.22		203	206	Peak	Horizontal	
2 *	2440.00	100.88	72.44	37.44	74.00	35.88		203	206	Peak	Horizontal	
3	2628.84	55.21	17.59	37.62	74.00	-18.79		203	206	Peak	Horizontal	



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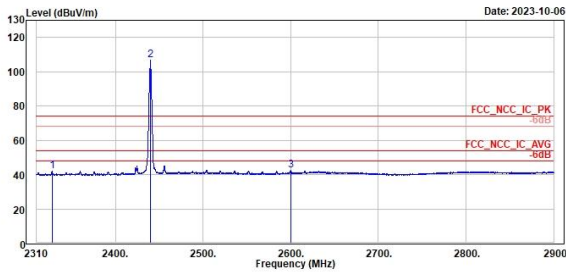
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2319.68	53.66	16.72	36.94	74.00	-20.34		357	229	Peak	Vertical	
2 *	2440.00	101.61	64.17	37.44	74.00	27.61		357	229	Peak	Vertical	
3	2782.83	54.64	17.06	37.58	74.00	-19.36		357	229	Peak	Vertical	

Zigbee_250kHz

Middle Channel (Horizontal) Average



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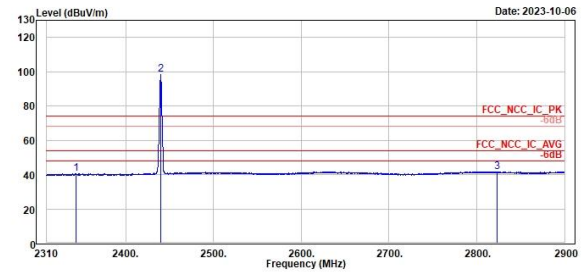


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2328.05	41.97	4.96	37.01	54.00	-12.03		203	206	Average	Horizontal	
2 *	2440.00	106.66	69.22	37.44	54.00	52.66		203	206	Average	Horizontal	
3	2600.28	42.46	4.81	37.65	54.00	-11.54		203	206	Average	Horizontal	

Middle Channel (Vertical) Average



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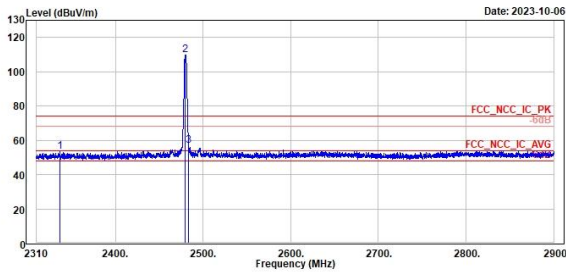
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2343.39	40.57	3.42	37.15	54.00	-13.43		357	229	Average	Vertical	
2 *	2440.00	98.59	61.15	37.44	54.00	44.59		357	229	Average	Vertical	
3	2822.95	41.62	3.86	37.76	54.00	-12.38		357	229	Average	Vertical	

Zigbee_250kHz

High Channel (Horizontal) Peak



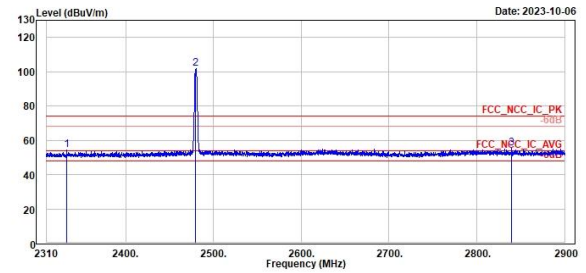
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2336.90	53.33	16.23	37.10	74.00	-20.67		273	202	Peak	Horizontal	
2 *	2480.00	109.64	72.10	37.54	74.00	35.64		273	202	Peak	Horizontal	
3	2483.46	57.05	19.51	37.54	74.00	-16.95		273	202	Peak	Horizontal	



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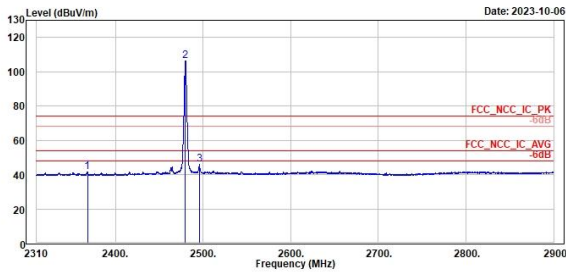
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1	2333.25	54.41	17.35	37.06	74.00	-19.59		365	299	Peak	Vertical	
2 *	2480.00	101.62	64.08	37.54	74.00	27.62		365	299	Peak	Vertical	
3	2839.23	55.37	17.60	37.77	74.00	-18.63		365	299	Peak	Vertical	

Zigbee_250kHz

High Channel (Horizontal) Average



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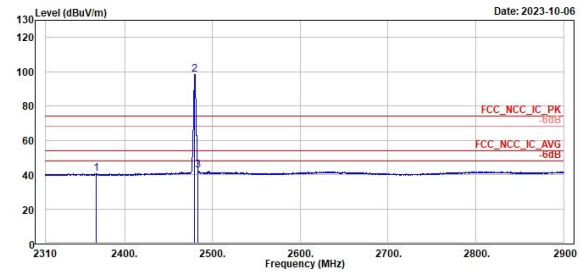


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2368.17	41.69	4.58	37.19	54.00	-12.31		273	202	Average	Horizontal	
2 *	2400.00	106.47	68.93	37.54	54.00	52.47		273	202	Average	Horizontal	
3	2495.97	46.10	8.54	37.56	54.00	-7.90		273	202	Average	Horizontal	

High Channel (Vertical) Average



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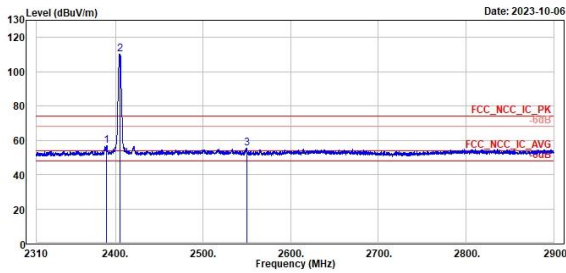
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1	2367.70	40.53	3.34	37.19	54.00	-13.47		365	299	Average	Vertical	
2 *	2400.00	98.30	60.76	37.54	54.00	44.30		365	299	Average	Vertical	
3	2483.58	42.42	4.88	37.54	54.00	-11.58		365	299	Average	Vertical	

Zigbee_1Mbps

Low Channel (Horizontal) Peak



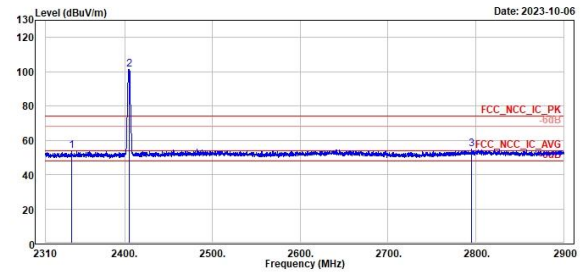
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2398.00	56.75	19.58	37.17	74.00	-17.25		314	202	Peak	Horizontal	
2 *	2405.00	110.46	73.26	37.20	74.00	36.46		314	202	Peak	Horizontal	
3	2549.66	55.20	17.79	37.41	74.00	-18.80		314	202	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	2339.62	53.87	16.75	37.12	74.00	-20.13		356	235	Peak	Vertical	
2 *	2405.00	101.38	64.18	37.20	74.00	27.38		356	235	Peak	Vertical	
3	2795.45	54.72	17.03	37.69	74.00	-19.28		356	235	Peak	Vertical	

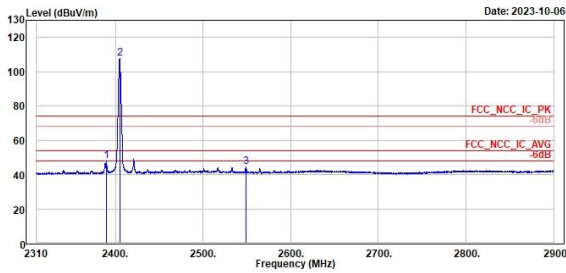
Zigbee_1Mbps

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



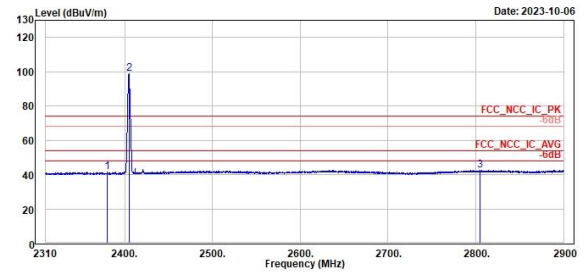
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.77	47.79	10.62	37.17	54.00	-6.21	314	202	Average	Horizontal		
2 *	2405.00	107.93	70.73	37.20	54.00	53.93	314	202	Average	Horizontal		
3	2549.07	44.26	6.85	37.41	54.00	-9.74	314	202	Average	Horizontal		



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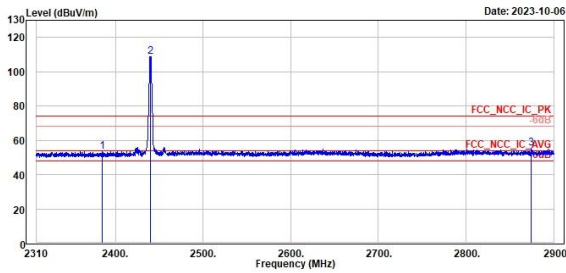
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1	2389.33	41.36	4.18	37.18	54.00	-12.64	356	235	Average	Vertical		
2 *	2405.00	98.81	61.61	37.20	54.00	44.81	356	235	Average	Vertical		
3	2805.01	42.70	4.96	37.74	54.00	-11.30	356	235	Average	Vertical		

Zigbee_1Mbps

Middle Channel (Horizontal) Peak



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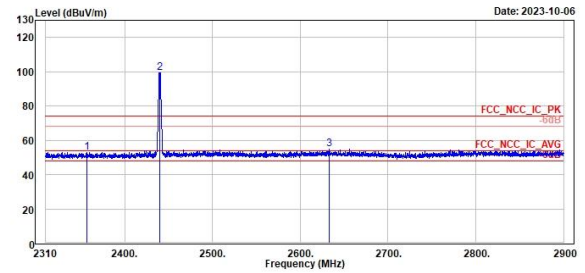


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2385.05	53.59	16.41	37.18	74.00	-20.41		382	208	Peak	Horizontal	
2 *	2440.00	100.88	71.44	37.44	74.00	34.88		382	208	Peak	Horizontal	
3	2874.63	55.16	17.31	37.85	74.00	-18.84		382	208	Peak	Horizontal	

Middle Channel (Vertical) Peak



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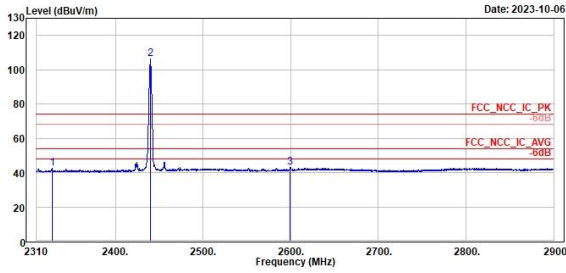
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2356.85	53.13	15.92	37.21	74.00	-20.87		350	234	Peak	Vertical	
2 *	2440.00	99.52	62.08	37.44	74.00	25.52		350	234	Peak	Vertical	
3	2632.85	54.89	17.28	37.61	74.00	-19.11		350	234	Peak	Vertical	

Zigbee_1Mbps

Middle Channel (Horizontal) Average



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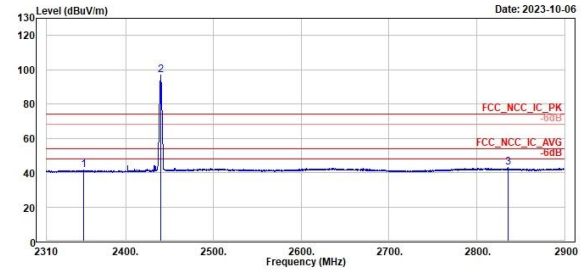


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2327.94	42.71	5.70	37.01	54.00	-11.29		382	208	Average	Horizontal	
2 *	2440.00	106.33	68.89	37.44	54.00	52.33		382	208	Average	Horizontal	
3	2599.57	43.10	5.45	37.65	54.00	-10.90		382	208	Average	Horizontal	

Middle Channel (Vertical) Average



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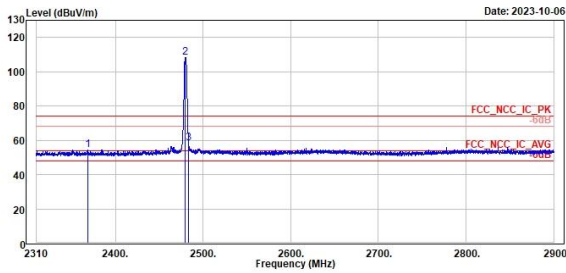
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2352.36	41.47	4.26	37.21	54.00	-12.53		350	234	Average	Vertical	
2 *	2440.00	96.96	59.52	37.44	54.00	42.96		350	234	Average	Vertical	
3	2835.57	42.79	5.02	37.77	54.00	-11.21		350	234	Average	Vertical	

Zigbee_1Mbps

High Channel (Horizontal) Peak



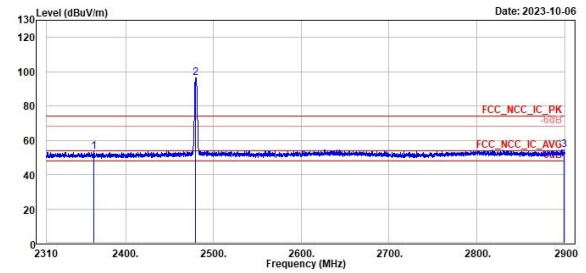
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2369.00	54.58	17.39	37.19	74.00	-19.42		372	204	Peak	Horizontal	
2 *	2480.00	100.45	70.91	37.54	74.00	34.45		372	204	Peak	Horizontal	
3	2483.46	58.26	20.72	37.54	74.00	-15.74		372	204	Peak	Horizontal	



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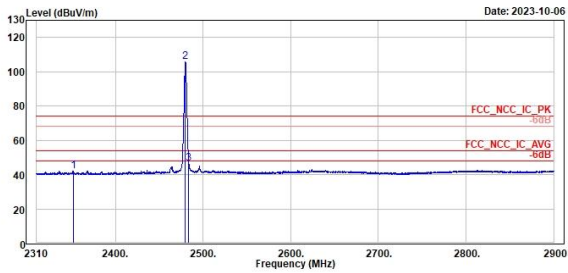
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2364.28	53.30	16.11	37.19	74.00	-20.70		129	228	Peak	Vertical	
2 *	2480.00	96.32	58.78	37.54	74.00	22.32		129	228	Peak	Vertical	
3	2899.17	54.60	16.67	37.93	74.00	-19.40		129	228	Peak	Vertical	

Zigbee_1Mbps

High Channel (Horizontal) Average



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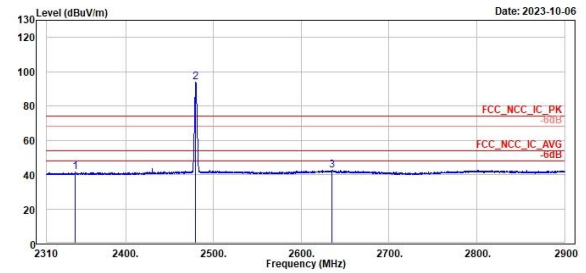


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.89	41.93	4.72	37.21	54.00	-12.07		372	204	Average	Horizontal	
2 *	2480.00	105.89	68.35	37.54	54.00	51.89		372	204	Average	Horizontal	
3	2483.58	46.63	9.09	37.54	54.00	-7.37		372	204	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	2342.57	41.41	4.27	37.14	54.00	-12.59		129	228	Average	Vertical	
2 *	2480.00	93.73	56.19	37.54	54.00	39.73		129	228	Average	Vertical	
3	2635.33	42.47	4.86	37.61	54.00	-11.53		129	228	Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

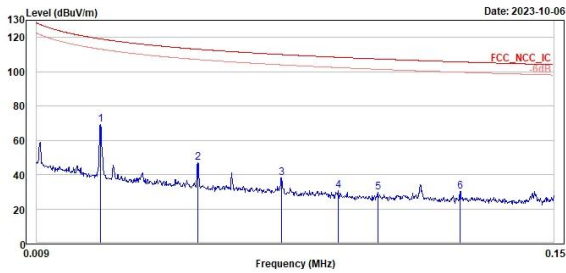
Zigbee_250kHz

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



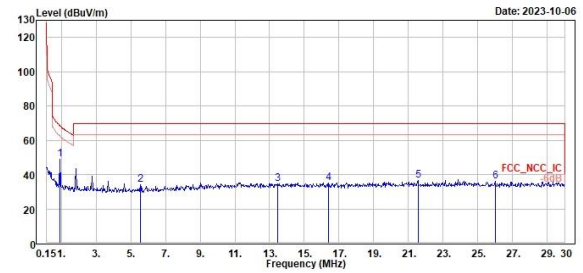
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	69.38	50.43	18.95	119.13	-49.75	100	267 Peak	Open	
2	0.05	47.13	28.09	19.04	113.11	-65.98	100	231 Peak	Open	
3	0.08	38.20	19.70	18.50	110.00	-71.80	100	248 Peak	Open	
4	0.09	30.56	12.43	18.13	108.40	-77.84	100	267 Peak	Open	
5	0.10	29.65	11.72	17.93	107.42	-77.77	100	214 Peak	Open	
6	0.12	30.23	12.21	18.02	105.70	-75.47	100	186 Peak	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	0.93	48.97	29.03	19.04	68.27	-19.30	100	201 Peak	Open	
2	5.55	34.00	14.27	19.73	69.50	-35.50	100	181 Peak	Open	
3	13.46	34.77	12.94	21.83	69.50	-34.73	100	15 Peak	Open	
4	16.39	35.17	13.13	22.04	69.50	-34.33	100	97 Peak	Open	
5	21.55	36.73	14.42	22.31	69.50	-32.77	100	241 Peak	Open	
6	26.00	35.86	13.51	22.35	69.50	-33.64	100	122 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

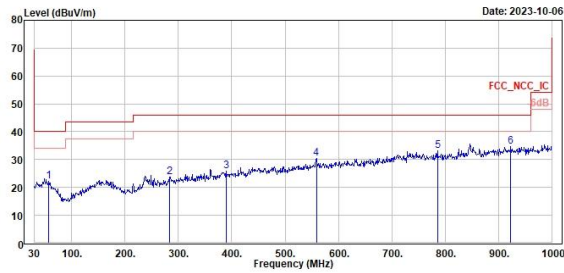
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



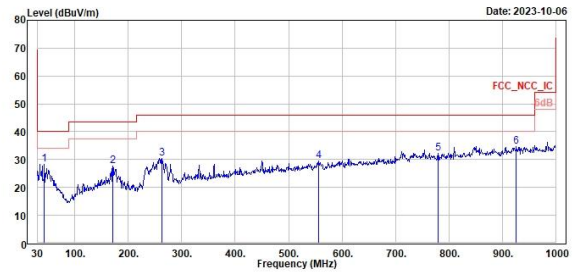
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	57.16	22.14	28.12	-5.98	46.00	-17.86	100	248 Peak	Horizontal	
2	284.14	23.64	28.70	-5.06	46.00	-22.36	100	240 Peak	Horizontal	
3	389.87	25.90	28.81	-2.91	46.00	-20.10	100	90 Peak	Horizontal	
4	558.65	30.29	30.39	-0.10	46.00	-15.71	100	258 Peak	Horizontal	
5	785.63	33.08	29.80	3.28	46.00	-12.92	100	104 Peak	Horizontal	
6	923.37	34.80	29.55	5.25	46.00	-11.20	100	311 Peak	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	42.61	28.34	34.67	-6.33	46.00	-11.66	100	360 Peak	Vertical	
2	170.65	27.57	33.50	-5.93	43.50	-15.93	100	74 Peak	Vertical	
3	262.80	30.48	36.51	-6.03	46.00	-15.52	100	100 Peak	Vertical	
4	556.71	29.43	29.49	-0.06	46.00	-16.57	100	211 Peak	Vertical	
5	779.81	32.20	29.28	2.92	46.00	-13.80	100	194 Peak	Vertical	
6	926.28	34.75	29.43	5.32	46.00	-11.25	100	316 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

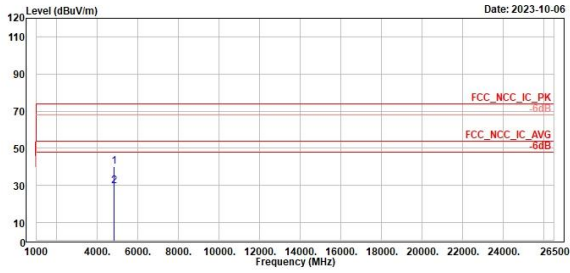
Zigbee_250kHz

Low Channel (Horizontal)

Low Channel (Vertical)



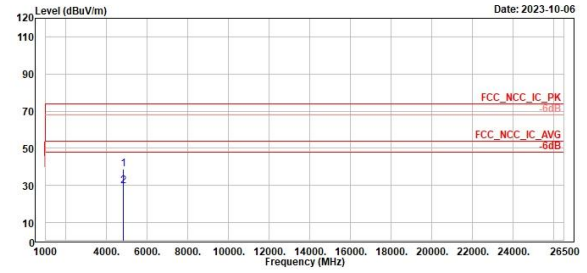
TÜV Rheinland Taiwan Ltd.
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4810.00	40.22	49.24	-9.02	74.00	-33.78		300	20	Peak	Horizontal	
2	4810.00	29.47	38.49	-9.02	54.00	-24.53		300	20	Average	Horizontal	



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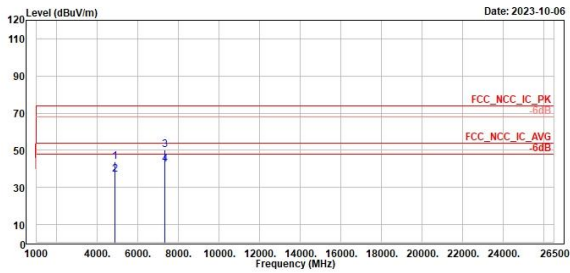
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4810.00	38.65	47.67	-9.02	74.00	-35.35		200	310	Peak	Vertical	
2	4810.00	29.63	38.65	-9.02	54.00	-24.37		200	310	Average	Vertical	

Zigbee_250kHz

Middle Channel (Horizontal)



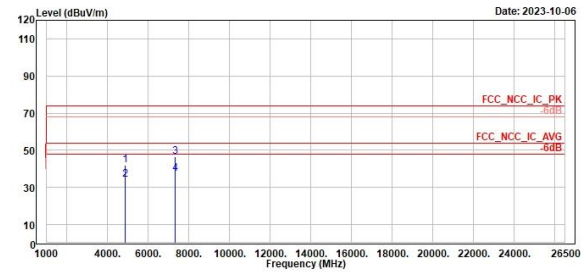
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Middle Channel (Vertical)



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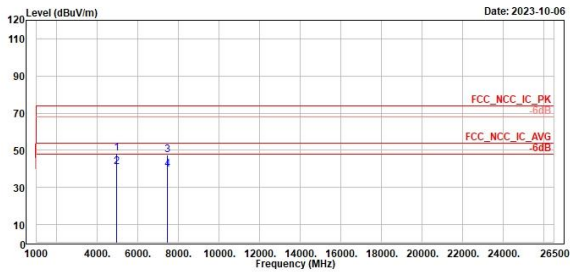
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



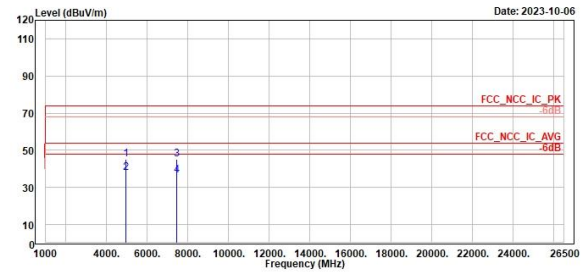
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	4960.00	48.27	57.11	-8.84	74.00	-25.73	100	40 Peak	Horizontal	
2	4960.00	40.88	49.72	-8.84	54.00	-13.12	100	40 Average	Horizontal	
3	7440.00	47.33	54.51	-7.18	74.00	-26.67	100	316 Peak	Horizontal	
4	7440.00	39.52	46.70	-7.18	54.00	-14.48	100	316 Average	Horizontal	



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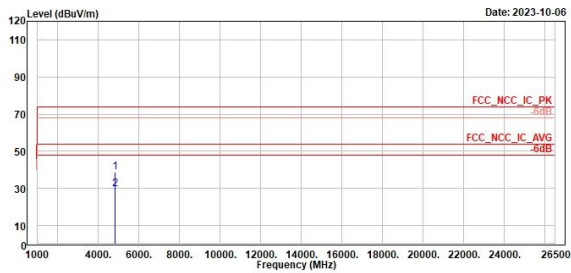
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	4960.00	45.21	54.05	-8.84	74.00	-28.79	200	177 Peak	Vertical	
2	4960.00	37.80	46.64	-8.84	54.00	-16.20	200	177 Average	Vertical	
3	7440.00	45.02	52.20	-7.18	74.00	-28.98	100	169 Peak	Vertical	
4	7440.00	36.33	43.51	-7.18	54.00	-17.67	100	169 Average	Vertical	

Zigbee_1Mbps

Low Channel (Horizontal)



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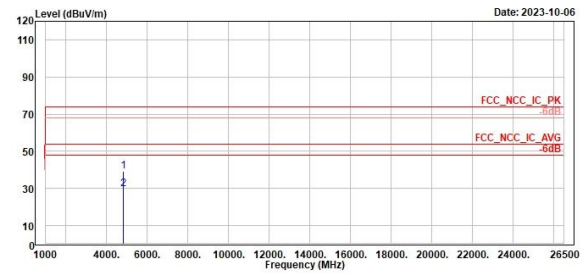


Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
Freq	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4810.00	38.80	47.82	-9.02	74.00	-35.20	300	40 Peak	Horizontal
2	4810.00	29.75	38.77	-9.02	54.00	-24.25	300	40 Average	Horizontal

Low Channel (Vertical)



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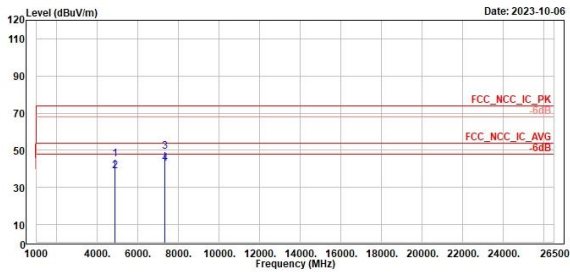
Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
Freq	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4810.00	39.28	48.30	-9.02	74.00	-34.72	104	7 Peak	Vertical
2	4810.00	29.62	38.64	-9.02	54.00	-24.38	104	7 Average	Vertical

Zigbee_1Mbps

Middle Channel (Horizontal)



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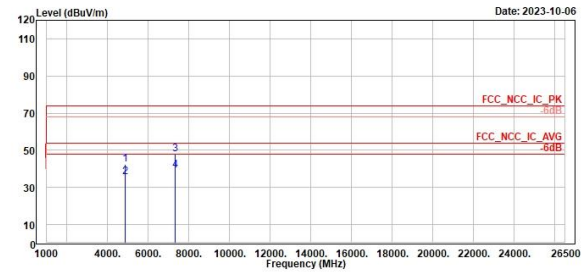


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	4880.00	45.19	54.23	-9.04	74.00	-28.81	100	58 Peak	Horizontal	
2	4880.00	38.66	47.70	-9.04	54.00	-15.34	100	58 Average	Horizontal	
3	7320.00	49.30	56.38	-7.08	74.00	-24.70	100	344 Peak	Horizontal	
4	7320.00	42.99	50.07	-7.08	54.00	-11.01	100	344 Average	Horizontal	

Middle Channel (Vertical)



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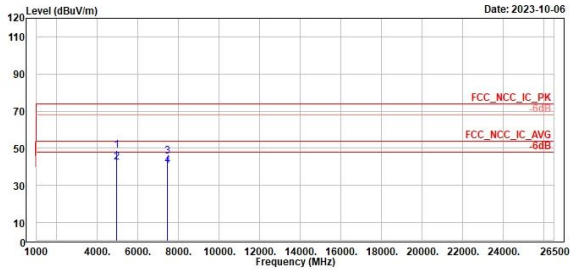
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	4880.00	42.33	51.37	-9.04	74.00	-31.67	100	190 Peak	Vertical	
2	4880.00	35.75	44.79	-9.04	54.00	-18.25	100	190 Average	Vertical	
3	7320.00	47.75	54.83	-7.08	74.00	-26.25	386	172 Peak	Vertical	
4	7320.00	39.02	46.10	-7.08	54.00	-14.98	386	172 Average	Vertical	

Zigbee_1Mbps

High Channel (Horizontal)



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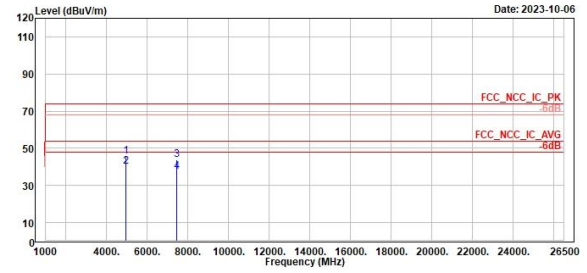


Line	Freq	Level	Read Level	Factor	Limit	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4960.00	48.81	57.65	-8.84	74.00	-25.19	100	48	Peak	Horizontal	
2	4960.00	42.54	51.38	-8.84	54.00	-11.46	100	48	Average	Horizontal	
3	7440.00	45.51	52.69	-7.18	74.00	-28.49	100	329	Peak	Horizontal	
4	7440.00	40.40	47.58	-7.18	54.00	-13.60	100	329	Average	Horizontal	

High Channel (Vertical)



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Line	Freq	Level	Read Level	Factor	Limit	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4960.00	45.57	54.41	-8.84	74.00	-28.43	300	124	Peak	Vertical	
2	4960.00	40.12	48.96	-8.84	54.00	-13.88	300	124	Average	Vertical	
3	7440.00	43.94	51.12	-7.18	74.00	-30.06	300	121	Peak	Vertical	
4	7440.00	37.52	44.70	-7.18	54.00	-16.48	300	121	Average	Vertical	

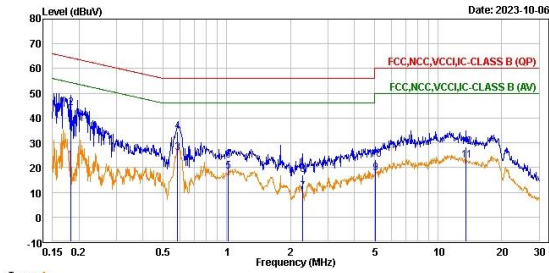
Mains Conducted Emission, 150kHz ~ 30MHz

Worst Band

(Line)



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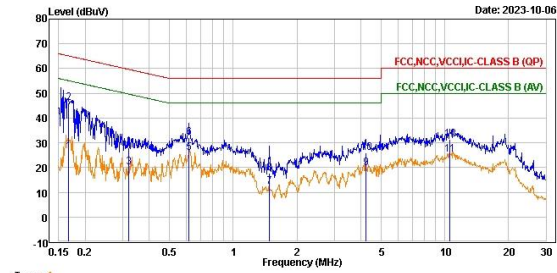
Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.18	22.97	13.35	9.62	54.39	-31.42	Average	line1	
2	0.18	44.13	34.51	9.62	64.39	-28.26	QP	line1	
3	0.58	25.76	16.13	9.63	46.00	-20.24	Average	line1	
4	0.58	34.47	24.84	9.63	56.00	-21.53	QP	line1	
5	1.01	18.46	8.82	9.64	46.00	-27.54	Average	line1	
6	1.01	22.77	13.13	9.64	56.00	-33.23	QP	line1	
7	2.28	10.07	0.41	9.66	46.00	-35.93	Average	line1	
8	2.28	16.96	7.30	9.66	56.00	-39.04	QP	line1	
9	5.04	17.63	7.93	9.70	50.00	-32.37	Average	line1	
10	5.04	23.33	13.63	9.70	60.00	-36.67	QP	line1	
11	13.58	22.95	13.19	9.76	50.00	-27.05	Average	line1	
12	13.58	28.30	18.54	9.76	60.00	-31.70	QP	line1	

(Neutral)



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Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.17	26.20	16.58	9.62	55.13	-28.93	Average	neutral	
2	0.17	46.21	36.59	9.62	65.13	-18.92	QP	neutral	
3	0.32	20.15	10.53	9.62	49.71	-29.56	Average	neutral	
4	0.32	27.97	18.35	9.62	59.71	-31.74	QP	neutral	
5	0.62	25.88	16.25	9.63	46.00	-20.12	Average	neutral	
6	0.62	32.24	22.61	9.63	56.00	-23.76	QP	neutral	
7	1.48	12.18	2.53	9.65	46.00	-33.82	Average	neutral	
8	1.48	17.60	8.15	9.65	56.00	-38.20	QP	neutral	
9	4.23	19.61	9.92	9.69	46.00	-26.39	Average	neutral	
10	4.23	25.92	16.23	9.69	56.00	-30.08	QP	neutral	
11	10.53	25.36	15.57	9.79	50.00	-24.64	Average	neutral	
12	10.53	31.49	21.70	9.79	60.00	-28.51	QP	neutral	

2nd Source, ECC Mode

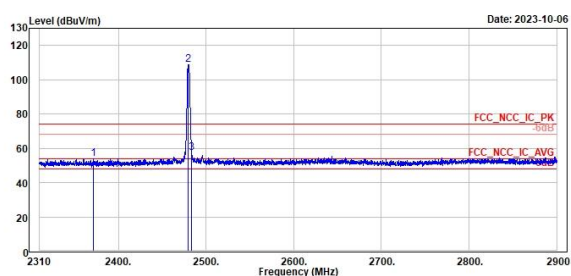
Band Edges, 2.31GHz ~ 2.9GHz

Zigbee_250kHz

High Channel (Horizontal) Peak



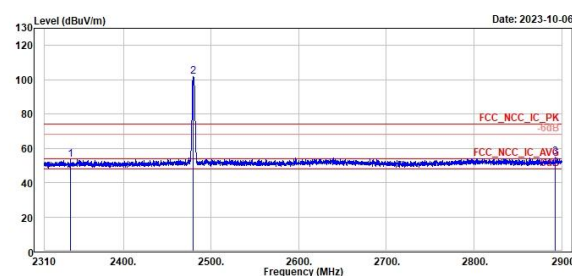
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2371.24	53.94	16.75	37.19	74.00	-20.06		234	206	Peak	Horizontal	
2 *	2480.00	100.62	71.08	37.54	74.00	34.62		234	206	Peak	Horizontal	
3	2483.46	57.45	19.91	37.54	74.00	-16.55		234	206	Peak	Horizontal	



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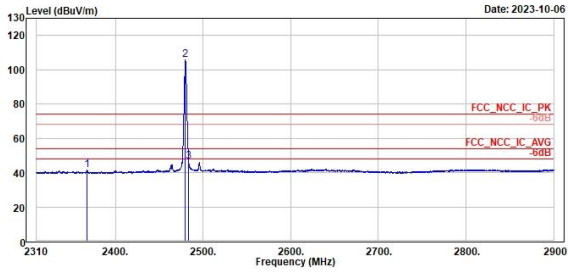
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2340.09	53.44	16.32	37.12	74.00	-20.56		241	61	Peak	Vertical	
2 *	2480.00	101.61	64.07	37.54	74.00	27.61		241	61	Peak	Vertical	
3	2892.92	54.72	16.81	37.91	74.00	-19.28		241	61	Peak	Vertical	

Zigbee_250kHz

High Channel (Horizontal) Average



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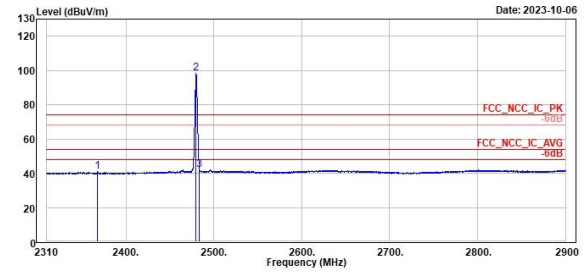


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2367.94	41.74	4.55	37.19	54.00	-12.26	234	206	Average	Horizontal		
2 *	2480.00	105.57	68.03	37.54	54.00	51.57	234	206	Average	Horizontal		
3	2483.46	46.40	8.86	37.54	54.00	-7.60	234	206	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	2368.06	40.81	3.62	37.19	54.00	-13.19	241	61	Average	Vertical		
2 *	2480.00	98.50	60.96	37.54	54.00	44.50	241	61	Average	Vertical		
3	2483.58	42.12	4.58	37.54	54.00	-11.88	241	61	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

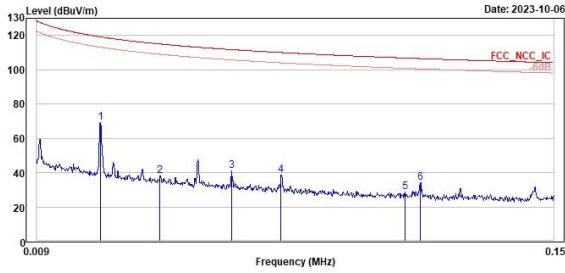
Zigbee_250kHz

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



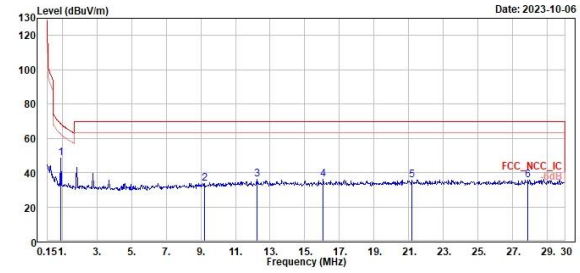
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Peak	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	69.35	50.40	18.95	119.13	-49.78	100	250 Peak	Open	
2	0.04	37.95	18.80	19.15	114.98	-77.03	100	288 Peak	Open	
3	0.06	41.25	22.43	18.82	111.72	-70.47	100	178 Peak	Open	
4	0.08	38.72	20.22	18.50	110.01	-71.29	100	260 Peak	Open	
5	0.11	28.60	10.64	17.96	106.82	-78.22	100	360 Peak	Open	
6	0.11	34.30	16.33	17.97	106.49	-72.19	100	289 Peak	Open	



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Peak	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.93	48.49	29.45	19.04	68.27	-19.78	100	196 Peak	Open	
2	9.22	33.86	12.61	21.25	69.50	-35.64	100	86 Peak	Open	
3	12.24	36.29	14.55	21.74	69.50	-33.21	100	318 Peak	Open	
4	16.06	36.19	14.18	22.01	69.50	-33.31	100	168 Peak	Open	
5	21.19	35.76	13.45	22.31	69.50	-33.74	100	242 Peak	Open	
6	27.88	35.78	13.42	22.36	69.50	-33.72	100	0 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

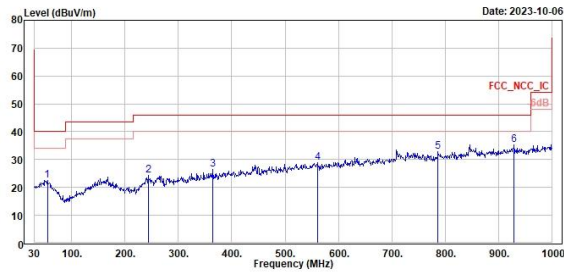
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



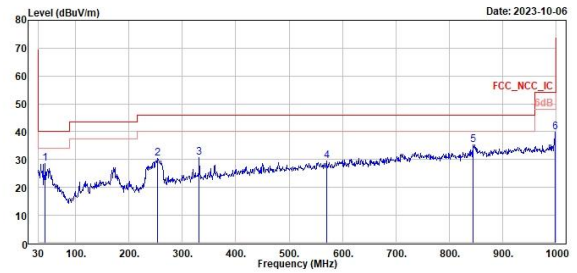
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	54.25	22.56	20.30	-5.74	40.00	-17.44	100	355 Peak	Horizontal	
2	243.40	24.39	30.94	-6.55	46.00	-21.61	100	241 Peak	Horizontal	
3	363.68	26.49	29.98	-3.49	46.00	-19.51	100	265 Peak	Horizontal	
4	560.59	28.95	29.12	-0.17	46.00	-17.05	100	306 Peak	Horizontal	
5	786.60	32.71	29.37	3.34	46.00	-13.29	100	135 Peak	Horizontal	
6	929.19	35.17	29.79	5.38	46.00	-10.83	100	91 Peak	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	42.61	20.70	35.03	-6.33	40.00	-11.30	100	66 Peak	Vertical	
2	253.10	30.34	36.68	-6.34	46.00	-15.66	100	103 Peak	Vertical	
3	331.67	30.71	34.54	-3.83	46.00	-15.29	100	135 Peak	Vertical	
4	570.29	29.48	30.01	-0.53	46.00	-16.52	100	131 Peak	Vertical	
5	844.80	35.26	31.14	4.12	46.00	-10.74	100	237 Peak	Vertical	
6	990.06	39.78	33.54	6.24	54.00	-14.22	100	22 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

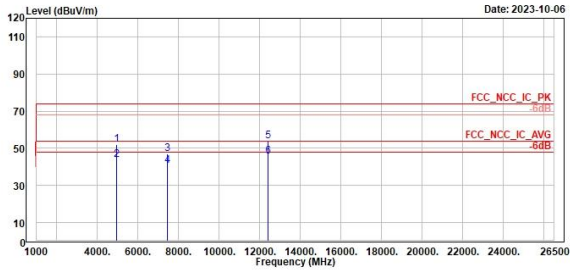
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



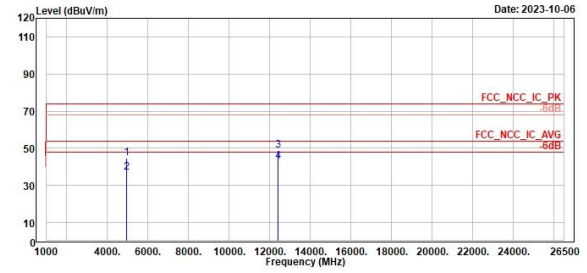
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Factor	Line	Limit	cm	deg			
1	4960.00	52.22	61.06	-8.84	74.00	-21.78	100	41 Peak	Horizontal	
2	4960.00	43.78	52.62	-8.84	54.00	-10.22	100	41 Average	Horizontal	
3	7440.00	47.17	54.35	-7.18	74.00	-26.83	100	353 Peak	Horizontal	
4	7440.00	40.72	47.90	-7.18	54.00	-13.28	100	353 Average	Horizontal	
5	12400.00	53.69	53.48	0.21	74.00	-20.31	100	4 Peak	Horizontal	
6	12400.00	45.81	45.60	0.21	54.00	-8.19	100	4 Average	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Factor	Line	Limit	cm	deg			
1	4960.00	44.79	53.63	-8.84	74.00	-29.21	100	76 Peak	Vertical	
2	4960.00	36.89	45.73	-8.84	54.00	-17.11	100	76 Average	Vertical	
3	12400.00	49.03	48.82	0.21	74.00	-24.97	100	111 Peak	Vertical	
4	12400.00	42.91	42.70	0.21	54.00	-11.09	100	111 Average	Vertical	

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

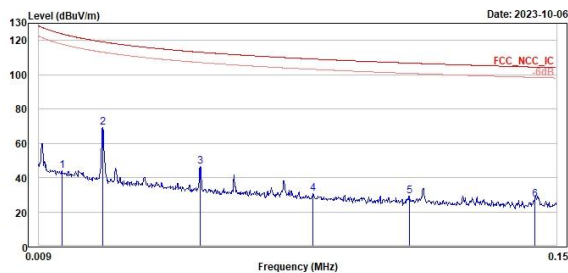
Zigbee_250kHz

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



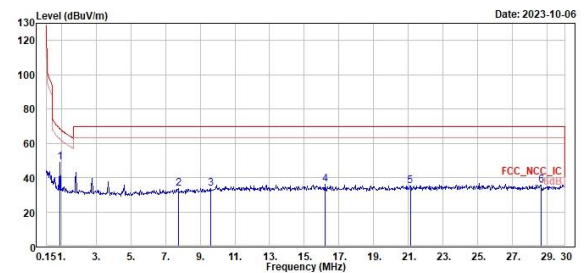
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.02	44.08	25.97	18.11	123.87	-79.79	100	360 Peak	Open
2	0.03	69.04	50.09	18.95	119.13	-50.09	100	314 Peak	Open
3	0.05	46.42	27.38	19.04	113.11	-66.69	100	266 Peak	Open
4	0.08	30.49	12.18	18.31	109.14	-78.65	100	221 Peak	Open
5	0.11	29.31	11.35	17.96	106.77	-77.46	100	235 Peak	Open
6	0.14	27.41	9.31	18.10	104.43	-77.02	100	103 Peak	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	0.93	49.07	30.03	19.04	68.27	-19.20	100	141 Peak	Open
2	7.73	33.45	12.81	20.64	69.50	-36.05	100	201 Peak	Open
3	9.61	33.63	12.22	21.41	69.50	-35.87	100	308 Peak	Open
4	16.18	35.93	13.91	22.02	69.50	-33.57	100	302 Peak	Open
5	21.10	35.26	12.95	22.31	69.50	-34.24	100	30 Peak	Open
6	28.63	35.62	13.25	22.37	69.50	-33.88	100	85 Peak	Open

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

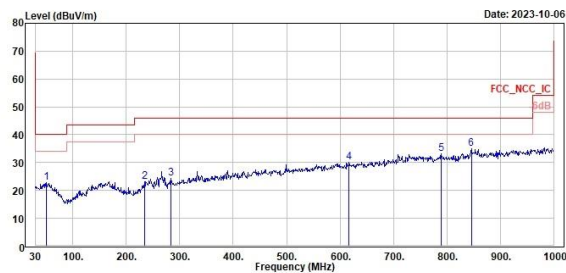
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



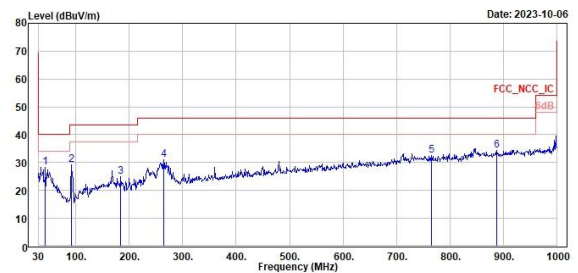
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	50.37	22.74	28.39	-5.65	46.00	-17.26	100	230	Peak	Horizontal		
2	233.70	23.13	30.12	-6.99	46.00	-22.87	200	244	Peak	Horizontal		
3	283.17	24.22	29.32	-5.10	46.00	-21.78	194	0	Peak	Horizontal		
4	616.85	30.06	29.42	0.64	46.00	-15.94	100	294	Peak	Horizontal		
5	789.51	33.28	29.77	3.51	46.00	-12.72	200	28	Peak	Horizontal		
6	845.77	34.89	30.79	4.10	46.00	-11.11	100	0	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	42.61	28.38	34.71	-6.33	46.00	-11.62	100	106	Peak	Vertical		
2	91.11	29.21	41.27	-12.06	43.50	-14.29	100	38	Peak	Vertical		
3	184.23	24.97	32.31	-7.34	43.50	-18.53	151	0	Peak	Vertical		
4	263.77	31.08	37.07	-5.99	46.00	-14.92	150	0	Peak	Vertical		
5	765.26	32.42	29.36	3.06	46.00	-13.58	200	280	Peak	Vertical		
6	886.45	34.38	29.78	4.60	46.00	-11.62	100	252	Peak	Vertical		