

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test for PCB Antenna

Main Source, ECC Mode

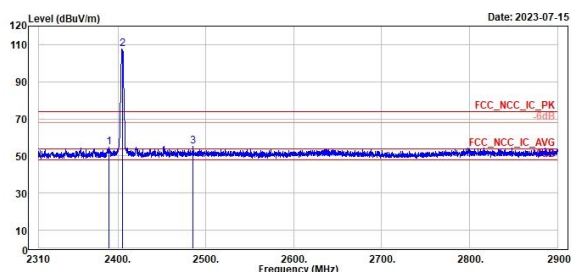
Band Edges, 2.31GHz ~ 2.9GHz

Zigbee_250kHz

Low Channel (Horizontal) Peak



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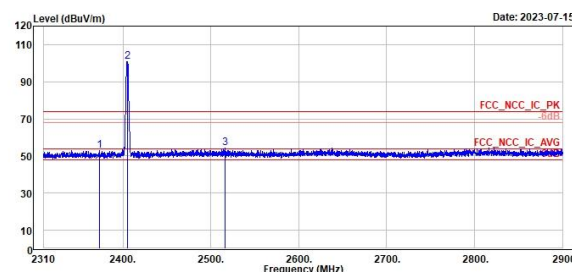


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2389.65	54.70	17.53	37.17	74.00	-19.30		234	200	Peak	Horizontal	
2 *	2405.00	107.50	70.30	37.20	74.00	33.50		234	200	Peak	Horizontal	
3	2485.11	55.18	17.63	37.55	74.00	-18.82		234	200	Peak	Horizontal	

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	2373.37	52.88	15.70	37.18	74.00	-21.12		312	315	Peak	Vertical	
2 *	2405.00	100.71	63.51	37.20	74.00	26.71		312	315	Peak	Vertical	
3	2516.15	54.44	16.93	37.51	74.00	-19.56		312	315	Peak	Vertical	

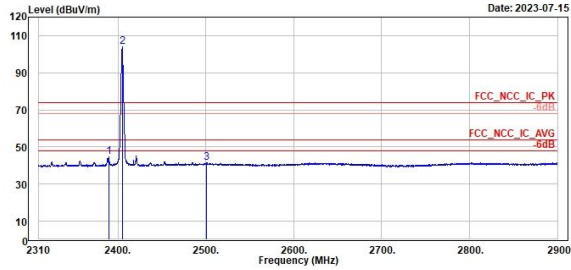
Zigbee_250kHz

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



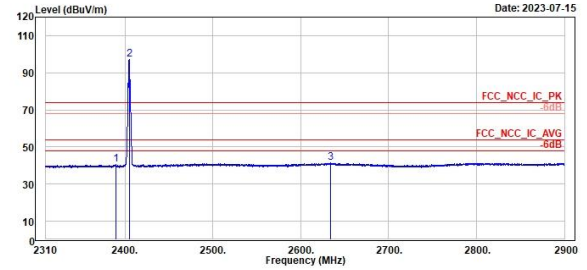
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.77	44.79	7.62	37.17	54.00	-9.21		334	200	Average	Horizontal	
2 *	2405.00	103.99	66.79	37.20	54.00	49.99		334	200	Average	Horizontal	
3	2501.28	41.73	4.18	37.55	54.00	-12.27		334	200	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	40.73	3.56	37.17	54.00	-13.27		312	315	Average	Vertical	
2 *	2405.00	97.02	59.82	37.20	54.00	43.02		312	315	Average	Vertical	
3	2633.79	41.32	3.71	37.61	54.00	-12.68		312	315	Average	Vertical	

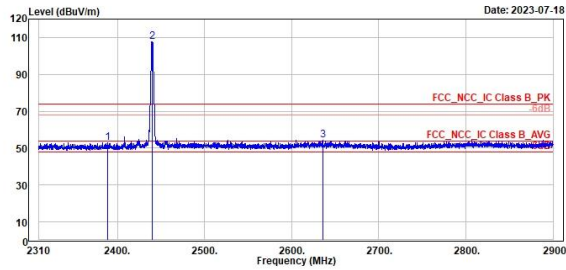
Zigbee_250kHz

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



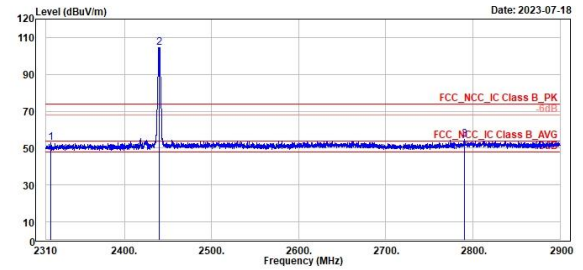
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.59	53.09	15.92	37.17	74.00	-20.91		309	146	Peak	Horizontal	
2 *	2440.00	107.47	70.03	37.44	74.00	33.47		309	146	Peak	Horizontal	
3	2636.03	54.50	16.88	37.62	74.00	-19.50		309	146	Peak	Horizontal	



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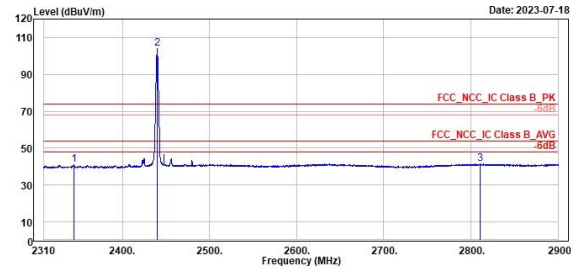
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2315.19	52.98	16.08	36.90	74.00	-21.02		340	329	Peak	Vertical	
2 *	2440.00	104.60	67.16	37.44	74.00	30.60		340	329	Peak	Vertical	
3	2789.91	54.78	17.13	37.65	74.00	-19.22		340	329	Peak	Vertical	

Zigbee_250kHz

Middle Channel (Horizontal) Average



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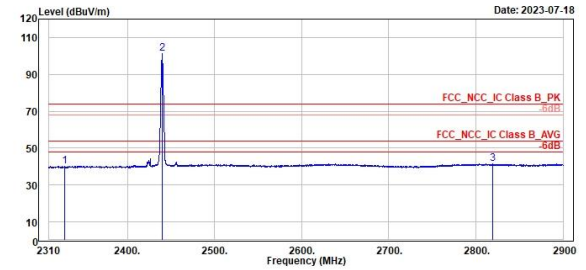


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2344.22	40.94	3.79	37.15	54.00	-13.06		309	146	Average	Horizontal	
2 *	2440.00	104.17	66.73	37.44	54.00	50.17		309	146	Average	Horizontal	
3	2810.79	41.47	3.72	37.75	54.00	-12.53		309	146	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	2327.94	40.27	3.26	37.01	54.00	-13.73		340	329	Average	Vertical	
2 *	2440.00	101.45	64.01	37.44	54.00	47.45		340	329	Average	Vertical	
3	2819.64	41.46	3.71	37.75	54.00	-12.54		340	329	Average	Vertical	

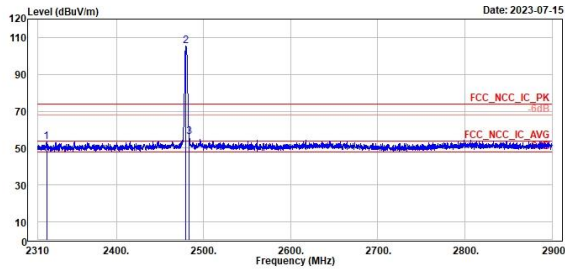
Zigbee_250kHz

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



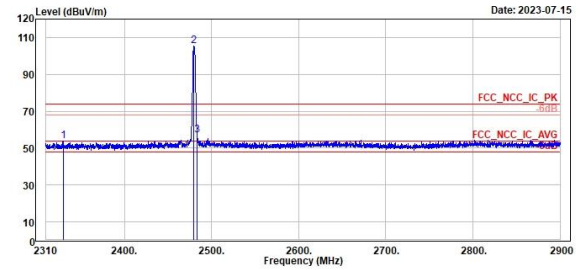
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2319.91	53.45	16.51	36.94	74.00	-20.55	149	205	Peak	Horizontal		
2 *	2480.00	105.21	67.67	37.54	74.00	31.21	149	205	Peak	Horizontal		
3	2483.81	56.24	18.70	37.54	74.00	-17.76	149	205	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	2330.18	53.66	16.63	37.03	74.00	-20.34	373	186	Peak	Vertical		
2 *	2480.00	105.17	67.63	37.54	74.00	31.17	373	186	Peak	Vertical		
3	2483.58	57.09	19.55	37.54	74.00	-16.91	373	186	Peak	Vertical		

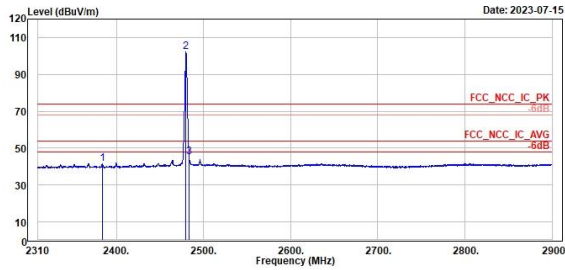
Zigbee_250kHz

High Channel (Horizontal) Average

High Channel (Vertical) Average



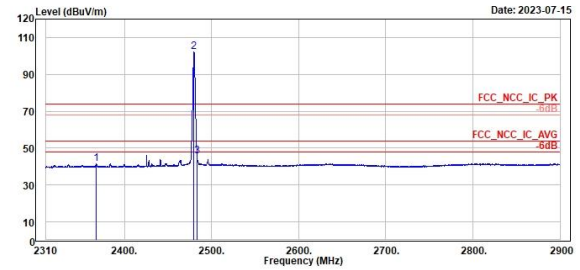
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2383.87	41.64	4.47	37.17	54.00	-12.36	149	205	Average	Horizontal		
2 *	2480.00	102.20	64.66	37.54	54.00	48.20	149	205	Average	Horizontal		
3	2483.46	45.06	7.52	37.54	54.00	-8.94	149	205	Average	Horizontal		



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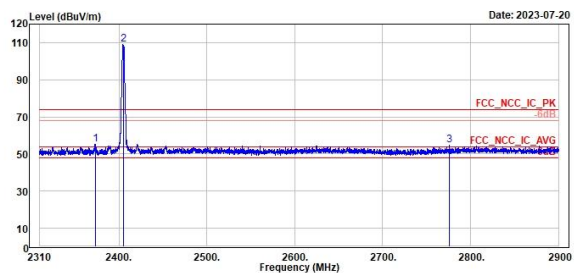
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2367.58	41.53	4.34	37.19	54.00	-12.47	373	186	Average	Vertical		
2 *	2480.00	102.18	64.64	37.54	54.00	48.18	373	186	Average	Vertical		
3	2483.46	45.41	7.87	37.54	54.00	-8.59	373	186	Average	Vertical		

Zigbee_1M

Low Channel (Horizontal) Peak



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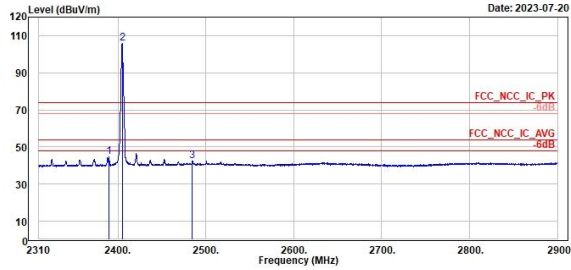
		Freq	Level	Read Level	Read Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
		MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1		2373.84	55.02	17.84	37.18	74.00	-18.98	100	295	Peak	Horizontal	
2	*	2405.00	108.88	71.68	37.20	74.00	34.88	100	295	Peak	Horizontal	
3		2775.98	54.89	17.37	35.72	74.00	-19.11	100	295	Peak	Horizontal	

Zigbee_1M

Low Channel (Horizontal) Average



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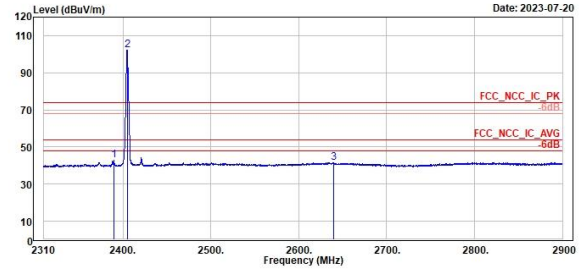


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	Limit	cm	deg			
1	2389.77	44.76	7.59	37.17	54.00	-9.24	100	205	Average	Horizontal		
2 *	2405.00	105.73	68.53	37.20	54.00	51.73	100	205	Average	Horizontal		
3	2484.76	42.58	5.04	37.54	54.00	-11.42	100	205	Average	Horizontal		

Low Channel (Vertical) Average



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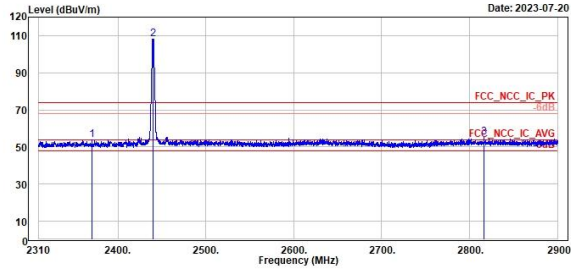
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	Limit	cm	deg			
1	2389.89	42.78	5.61	37.17	54.00	-11.22	288	158	Average	Vertical		
2 *	2405.00	102.32	65.12	37.20	54.00	48.32	288	158	Average	Vertical		
3	2639.46	41.57	3.96	37.61	54.00	-12.43	288	158	Average	Vertical		

Zigbee_1M

Middle Channel (Horizontal) Peak



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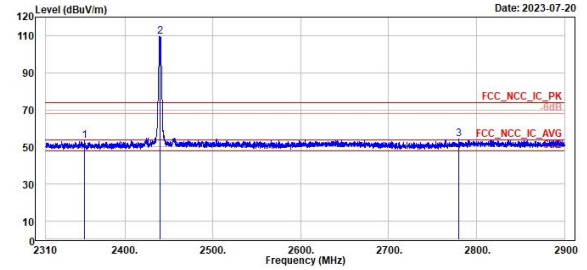


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2370.65	53.67	16.48	37.19	74.00	-20.33		211	200	Peak	Horizontal	
2 *	2440.00	108.30	70.86	37.44	74.00	34.30		211	200	Peak	Horizontal	
3	2816.46	54.99	17.24	37.75	74.00	-19.01		211	200	Peak	Horizontal	

Middle Channel (Vertical) Peak



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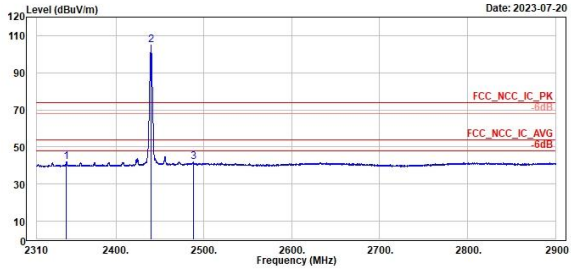
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2353.78	53.18	15.98	37.20	74.00	-20.82		342	185	Peak	Vertical	
2 *	2440.00	109.33	71.89	37.44	74.00	35.33		342	185	Peak	Vertical	
3	2779.76	54.31	16.75	37.56	74.00	-19.69		342	185	Peak	Vertical	

Zigbee_1M

Middle Channel (Horizontal) Average



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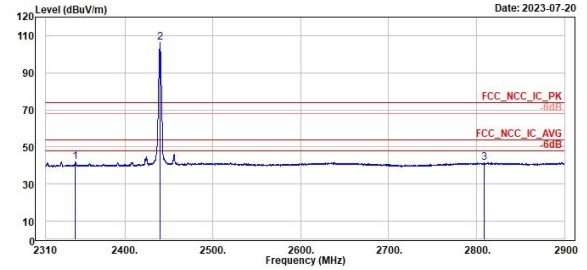


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2343.98	41.80	4.65	37.15	54.00	-12.20		211	200	Average	Horizontal	
2 *	2440.00	105.15	67.71	37.44	54.00	51.15		211	200	Average	Horizontal	
3	2488.30	41.80	4.25	37.55	54.00	-12.20		211	200	Average	Horizontal	

Middle Channel (Vertical) Average



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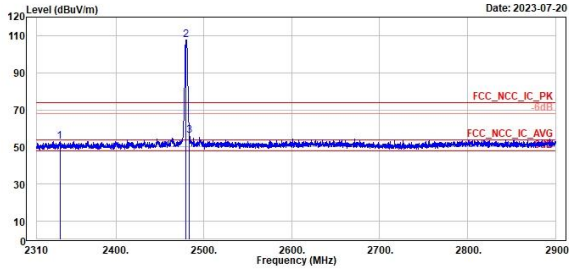
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2343.98	41.89	4.74	37.15	54.00	-12.11		342	185	Average	Vertical	
2 *	2440.00	106.28	68.84	37.44	54.00	52.28		342	185	Average	Vertical	
3	2888.79	41.61	3.87	37.74	54.00	-12.39		342	185	Average	Vertical	

Zigbee_1M

High Channel (Horizontal) Peak



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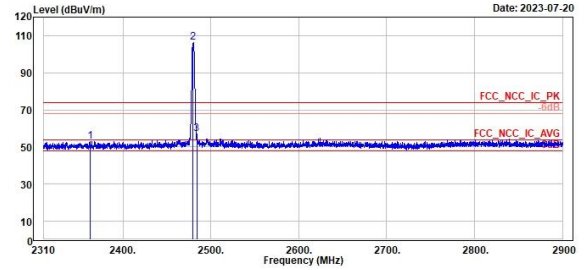


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2336.31	52.95	15.86	37.09	74.00	-21.05	100	205	Peak	Horizontal		
2 *	2488.00	107.58	70.04	37.54	74.00	33.58	100	205	Peak	Horizontal		
3	2483.46	56.06	18.52	37.54	74.00	-17.94	100	205	Peak	Horizontal		

High Channel (Vertical) Peak



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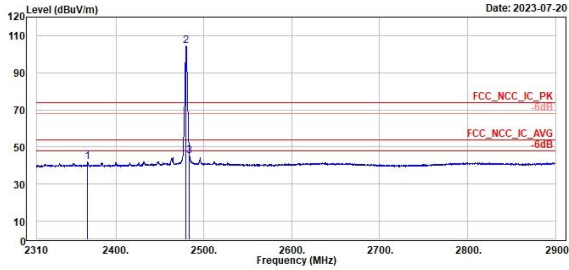
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2362.98	53.11	15.92	37.19	74.00	-20.89	364	197	Peak	Vertical		
2 *	2488.00	106.11	68.57	37.54	74.00	32.11	364	197	Peak	Vertical		
3	2483.93	56.87	19.33	37.54	74.00	-17.13	364	197	Peak	Vertical		

Zigbee_1M

High Channel (Horizontal) Average



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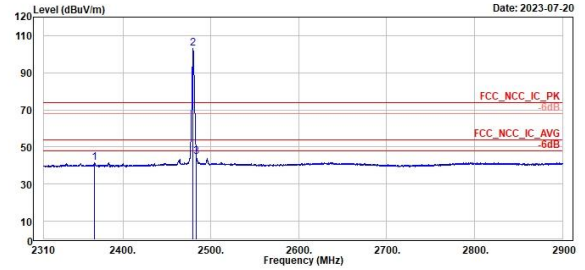


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2367.82	42.15	4.96	37.19	54.00	-11.85	100	205	Average	Horizontal		
2 *	2488.00	104.51	66.97	37.54	54.00	50.51	100	205	Average	Horizontal		
3	2483.46	45.23	7.69	37.54	54.00	-8.77	100	205	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	2367.94	41.50	4.31	37.19	54.00	-12.50	364	197	Average	Vertical		
2 *	2488.00	103.07	65.53	37.54	54.00	49.07	364	197	Average	Vertical		
3	2483.46	44.64	7.10	37.54	54.00	-9.36	364	197	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

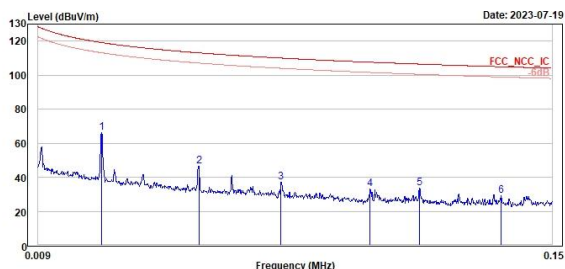
Zigbee_250kHz

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



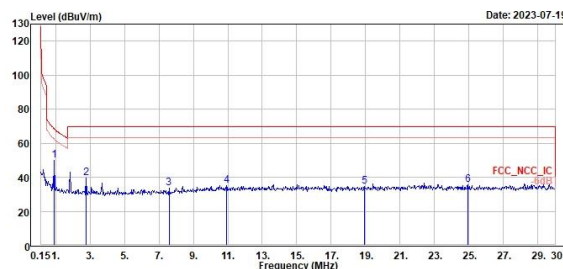
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	0.03	66.09	47.14	18.95	119.13	-53.04	100	114	Peak	Open		
2	0.05	46.36	27.32	19.04	113.09	-66.73	100	131	Peak	Open		
3	0.08	37.21	18.71	18.50	110.01	-72.80	100	360	Peak	Open		
4	0.10	32.97	15.05	17.92	107.59	-74.62	100	160	Peak	Open		
5	0.11	33.42	15.45	17.97	106.49	-73.07	100	274	Peak	Open		
6	0.14	29.25	11.19	18.06	104.92	-75.67	100	21	Peak	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	49.82	30.79	19.03	68.27	-18.45	100	123	Peak	Open		
2	2.78	39.39	19.84	19.55	69.50	-30.11	100	123	Peak	Open		
3	7.58	33.67	13.17	20.50	69.50	-35.83	100	162	Peak	Open		
4	10.93	35.16	13.60	21.56	69.50	-34.34	100	327	Peak	Open		
5	18.93	34.70	12.60	22.10	69.50	-34.80	100	168	Peak	Open		
6	24.93	35.76	13.56	22.20	69.50	-33.74	100	275	Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

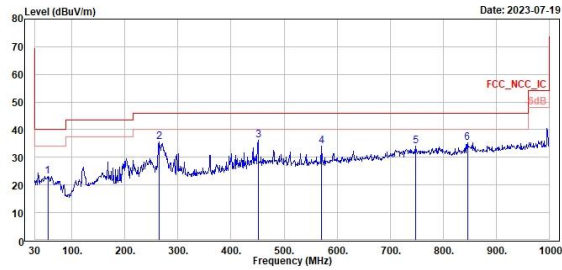
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



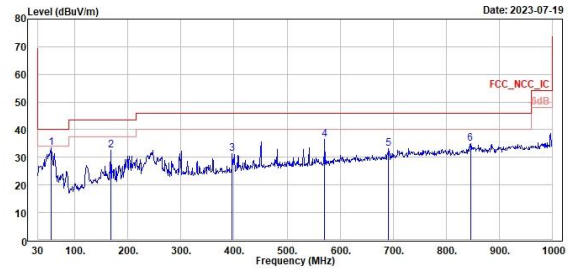
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	54.25	23.25	28.99	-5.74	40.00	-16.75		200	87	Peak	Horizontal	
2	263.77	35.46	41.45	-5.99	46.00	-10.54		200	133	Peak	Horizontal	
3	458.98	36.15	38.17	-2.02	46.00	-9.85		200	102	Peak	Horizontal	
4	578.29	34.87	34.68	-0.53	46.00	-11.93		100	109	Peak	Horizontal	
5	748.77	34.10	31.04	3.06	46.00	-11.90		100	121	Peak	Horizontal	
6	845.77	35.39	31.29	4.10	46.00	-10.61		200	134	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	55.22	33.42	39.36	-5.94	40.00	-6.58		100	143	Peak	Vertical	
2	167.74	32.63	38.35	-5.72	43.50	-10.87		100	37	Peak	Vertical	
3	396.66	31.38	34.25	-2.87	46.00	-14.62		100	80	Peak	Vertical	
4	571.26	36.42	36.95	-0.53	46.00	-9.58		100	182	Peak	Vertical	
5	691.54	33.17	31.37	1.80	46.00	-12.83		200	176	Peak	Vertical	
6	845.77	35.00	30.90	4.10	46.00	-11.00		182	360	Peak	Vertical	

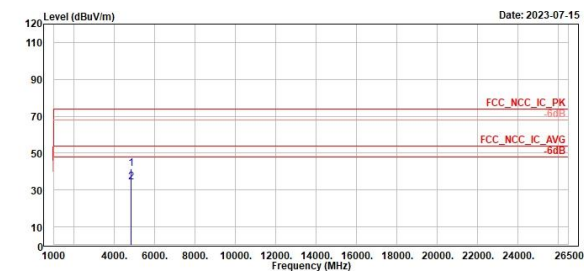
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

Zigbee_250kHz

Low Channel (Horizontal)



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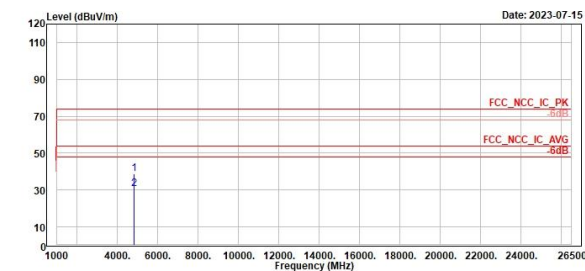


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 4810.00	41.52	50.54	-9.02	74.00	-32.48	297	360	Peak	Horizontal		
2 4810.00	34.30	43.32	-9.02	54.00	-19.70	297	360	Average	Horizontal		

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	cm	deg				
1 4810.00	38.86	47.88	-9.02	74.00	-35.14	400	203	Peak	Vertical		
2 4810.00	30.56	39.58	-9.02	54.00	-23.44	400	203	Average	Vertical		

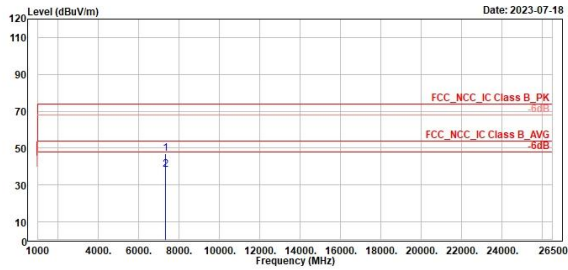
Zigbee_250kHz

Middle Channel (Horizontal)

Middle Channel (Vertical)



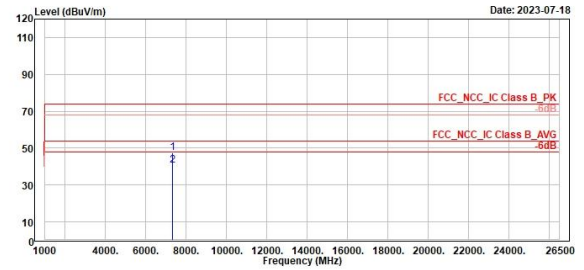
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7320.00	46.89	53.97	-7.08	74.00	-27.11	100	350	Peak	Horizontal		
2	7320.00	38.28	45.36	-7.08	54.00	-15.72	100	350	Average	Horizontal		



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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	7320.00	47.50	54.58	-7.08	74.00	-26.50	300	147	Peak	Vertical		
2	7320.00	40.54	47.62	-7.08	54.00	-13.46	300	147	Average	Vertical		

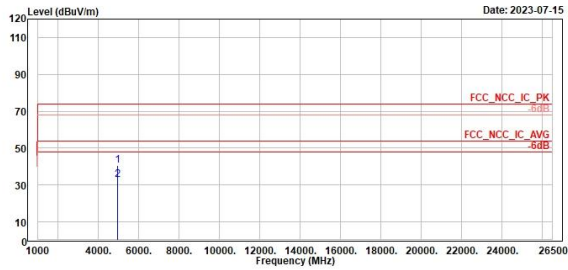
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



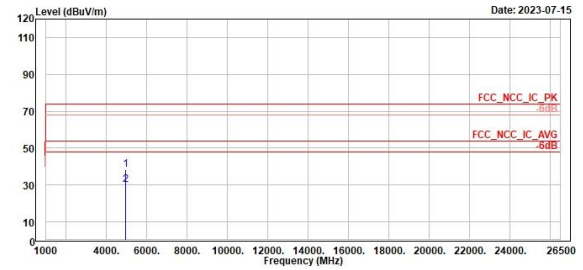
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	40.45	49.29	-8.84	74.00	-33.55	300	31	Peak	Horizontal		
2	4960.00	33.02	41.86	-8.84	54.00	-20.98	300	31	Average	Horizontal		



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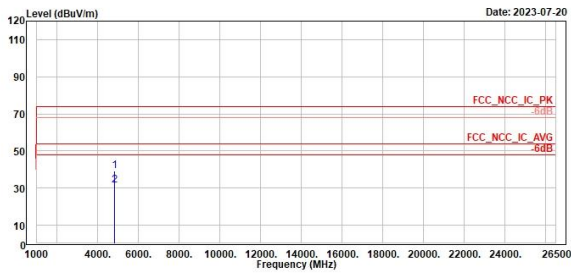
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	38.38	47.22	-8.84	74.00	-35.62	200	360	Peak	Vertical		
2	4960.00	30.32	39.16	-8.84	54.00	-23.68	200	360	Average	Vertical		

Zigbee_1M

Low Channel (Horizontal)



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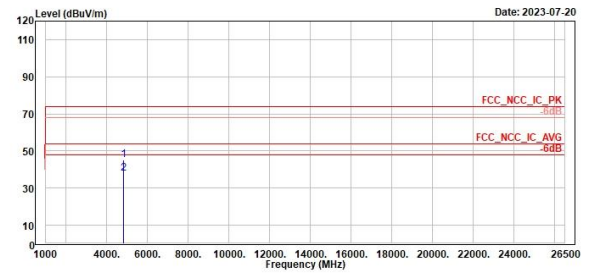


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 4810.00	39.31	48.33	-9.02	74.00	-34.69	300	91	Peak	Vertical		
2 4810.00	31.36	40.38	-9.02	54.00	-22.64	300	91	Average	Vertical		

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	cm	deg				
1 4810.00	45.02	54.04	-9.02	74.00	-28.98	300	285	Peak	Vertical		
2 4810.00	38.03	47.05	-9.02	54.00	-15.97	300	285	Average	Vertical		

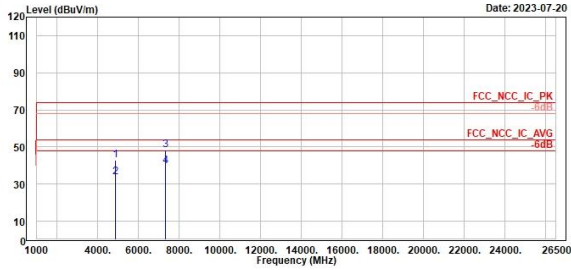
Zigbee_1M

Middle Channel (Horizontal)

Middle Channel (Vertical)



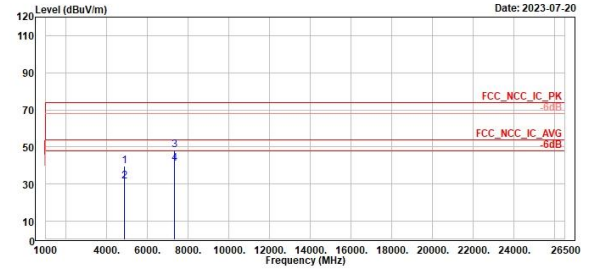
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	42.73	51.77	-9.04	74.00	-31.27		200	292	Peak	Horizontal	
2	4880.00	33.56	42.60	-9.04	54.00	-20.44		200	292	Average	Horizontal	
3	7320.00	48.42	55.50	-7.08	74.00	-25.58		100	30	Peak	Horizontal	
4	7320.00	39.79	46.87	-7.08	54.00	-14.21		100	30	Average	Horizontal	



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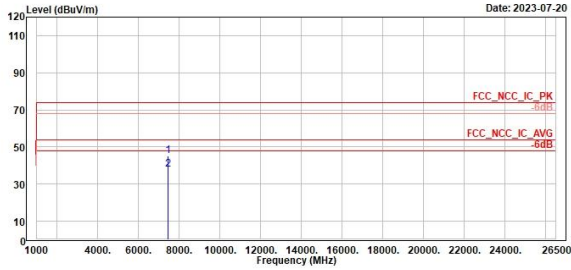
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	39.59	48.63	-9.04	74.00	-34.41		200	293	Peak	Vertical	
2	4880.00	31.38	40.42	-9.04	54.00	-22.62		200	293	Average	Vertical	
3	7320.00	48.28	55.36	-7.08	74.00	-25.72		300	141	Peak	Vertical	
4	7320.00	40.94	48.02	-7.08	54.00	-13.06		300	141	Average	Vertical	

Zigbee_1M

High Channel (Horizontal)



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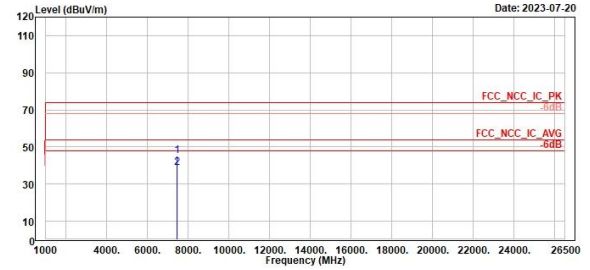


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7440.00	45.22	52.40	-7.18	74.00	-28.78	300	31	Peak	Horizontal		
2	7440.00	37.74	44.92	-7.18	54.00	-16.26	300	31	Average	Horizontal		

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	7440.00	45.29	52.47	-7.18	74.00	-28.71	300	129	Peak	Vertical		
2	7440.00	38.81	45.99	-7.18	54.00	-15.19	300	129	Average	Vertical		

Mains Conducted Emission, 150kHz ~ 30MHz

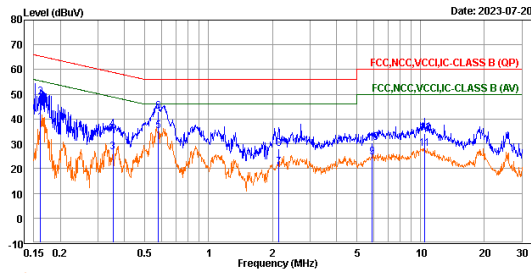
Worst Band

(Line)

(Neutral)



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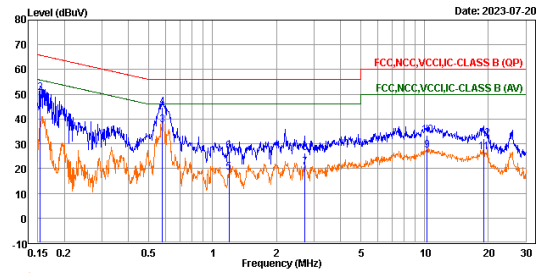


Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	38.75	29.13	9.62	55.42	-16.67	Average	line1	
2	0.16	49.00	39.38	9.62	65.42	-16.42	QP	line1	
3	0.35	26.49	16.86	9.63	48.88	-22.39	Average	line1	
4	0.35	35.87	26.24	9.63	58.88	-23.01	QP	line1	
5	0.58	35.26	25.63	9.63	46.00	-10.74	Average	line1	
6	0.58	43.08	33.45	9.63	56.00	-12.92	QP	line1	
7	2.15	20.54	10.88	9.66	46.00	-25.46	Average	line1	
8	2.15	28.07	18.41	9.66	56.00	-27.93	QP	line1	
9	5.88	24.68	14.96	9.72	50.00	-25.32	Average	line1	
10	5.88	30.41	20.69	9.72	60.00	-29.59	QP	line1	
11	10.43	28.01	18.25	9.76	50.00	-21.99	Average	line1	
12	10.43	34.15	24.39	9.76	60.00	-25.85	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	0.15	40.36	30.74	9.62	55.79	-15.43	Average	neutral	
2	0.15	50.61	40.99	9.62	65.79	-15.18	QP	neutral	
3	0.58	37.65	28.02	9.63	46.00	-8.35	Average	neutral	
4	0.58	44.74	35.11	9.63	56.00	-11.26	QP	neutral	
5	1.19	18.51	8.87	9.64	46.00	-27.49	Average	neutral	
6	1.19	27.10	17.46	9.64	56.00	-28.90	QP	neutral	
7	2.71	20.59	10.92	9.67	46.00	-25.41	Average	neutral	
8	2.71	26.14	16.47	9.67	56.00	-29.86	QP	neutral	
9	10.27	27.33	17.54	9.79	50.00	-22.67	Average	neutral	
10	10.27	33.31	23.52	9.79	60.00	-26.69	QP	neutral	
11	18.97	26.55	16.69	9.86	50.00	-23.45	Average	neutral	
12	18.97	31.93	22.07	9.86	60.00	-28.07	QP	neutral	

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

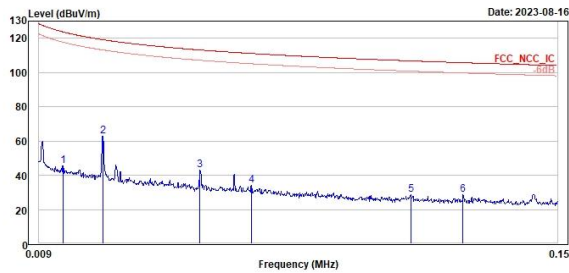
Zigbee_250kHz

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



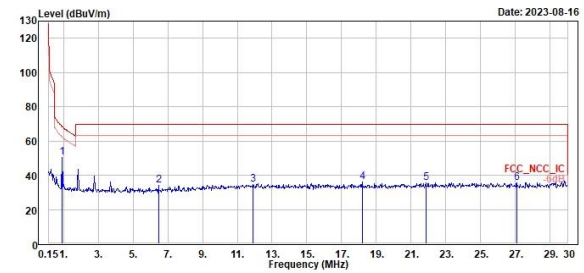
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.02	45.35	27.22	18.13	123.71	-78.36	100	276 Peak	Open	
2	0.03	62.92	43.97	18.95	119.13	-56.21	100	44 Peak	Open	
3	0.05	43.01	23.96	19.05	113.13	-70.12	100	11 Peak	Open	
4	0.07	33.88	15.16	18.72	111.10	-77.22	100	360 Peak	Open	
5	0.11	28.68	10.64	17.96	106.76	-78.16	100	327 Peak	Open	
6	0.12	28.62	10.60	18.02	105.71	-77.09	100	90 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	50.40	31.37	19.03	68.27	-17.87	100	283 Peak	Open	
2	6.48	33.88	13.84	20.04	69.50	-35.62	100	252 Peak	Open	
3	11.88	34.59	12.97	21.62	69.50	-34.91	100	334 Peak	Open	
4	18.18	36.09	14.04	22.05	69.50	-33.41	100	33 Peak	Open	
5	21.85	35.44	13.26	22.18	69.50	-34.06	100	192 Peak	Open	
6	27.07	35.35	13.14	22.21	69.50	-34.15	100	360 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

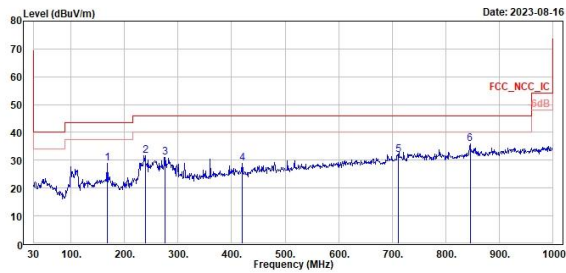
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



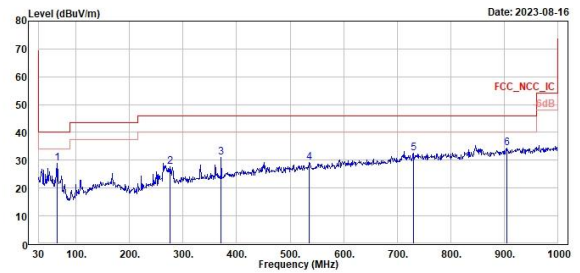
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	167.74	28.84	34.56	-5.72	43.50	-14.66	200	316	Peak	Horizontal		
2	238.55	31.74	38.40	-6.66	46.00	-14.26	200	197	Peak	Horizontal		
3	275.41	31.00	36.55	-5.55	46.00	-15.00	200	231	Peak	Horizontal		
4	419.94	28.81	31.46	-2.65	46.00	-17.19	100	299	Peak	Horizontal		
5	711.91	32.06	29.90	2.16	46.00	-13.94	200	48	Peak	Horizontal		
6	845.77	35.88	31.78	4.10	46.00	-10.12	200	247	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	63.95	28.88	36.14	-7.26	40.00	-11.12	100	276	Peak	Vertical		
2	275.41	27.59	33.14	-5.55	46.00	-18.41	200	30	Peak	Vertical		
3	371.44	30.89	34.26	-3.37	46.00	-15.11	100	235	Peak	Vertical		
4	536.34	29.06	30.02	-0.96	46.00	-16.94	200	15	Peak	Vertical		
5	730.34	32.60	30.43	2.17	46.00	-13.40	123	360	Peak	Vertical		
6	904.94	34.27	29.55	4.72	46.00	-11.73	183	360	Peak	Vertical		

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

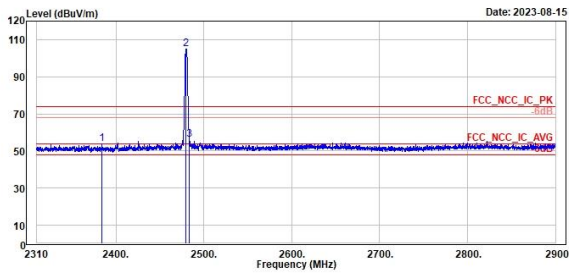
Zigbee_250kHz

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



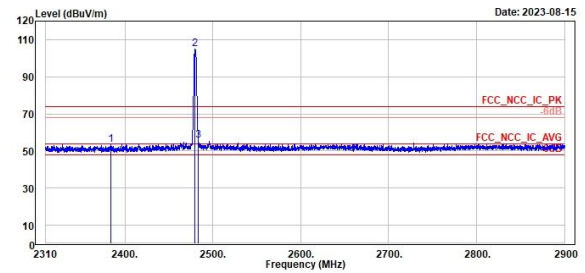
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2384.22	53.71	16.54	37.17	74.00	-20.29	150	204	Peak	Horizontal		
2 *	2488.00	104.85	67.31	37.54	74.00	30.85	150	204	Peak	Horizontal		
3	2483.46	56.04	18.50	37.54	74.00	-17.96	150	204	Peak	Horizontal		



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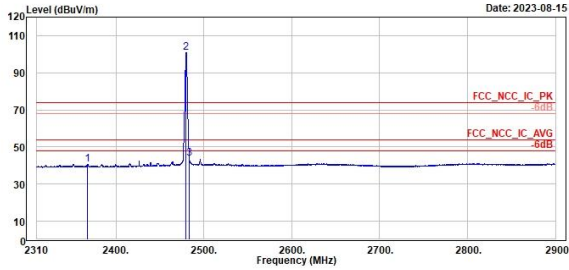
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2384.22	53.28	16.11	37.17	74.00	-20.72	322	187	Peak	Vertical		
2 *	2488.00	104.89	67.35	37.54	74.00	30.89	322	187	Peak	Vertical		
3	2483.46	55.65	18.11	37.54	74.00	-18.35	322	187	Peak	Vertical		

Zigbee_250kHz

High Channel (Horizontal) Average



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	Freq	Level	Read		Limit	Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
			Level Factor	Limit							
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2367.94	40.84	3.65	37.19	54.00	-13.16	150	204	Average	Horizontal	
2	2480.00	101.03	63.49	37.54	54.00	47.03	150	204	Average	Horizontal	
3	2483.46	43.74	6.28	37.54	54.00	-10.26	150	204	Average	Horizontal	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

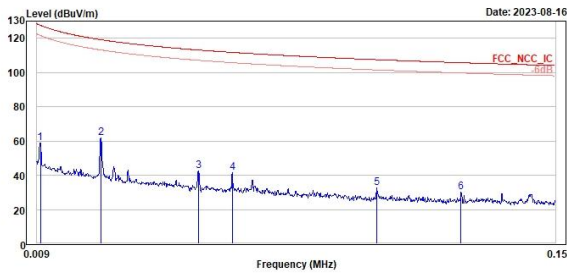
Zigbee_250kHz

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



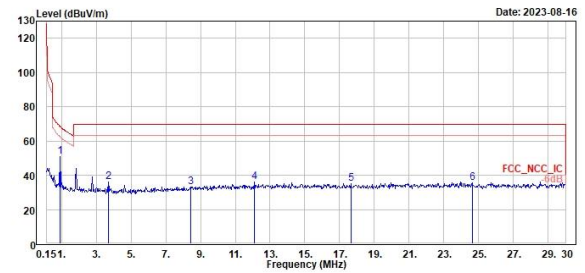
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	58.92	41.20	17.72	127.60	-68.68	100	119 Peak	Open	
2	0.03	61.69	42.74	18.95	119.13	-57.44	100	103 Peak	Open	
3	0.05	42.56	23.51	19.05	113.11	-70.55	100	218 Peak	Open	
4	0.06	41.39	22.56	18.83	111.72	-70.33	100	283 Peak	Open	
5	0.10	32.76	14.83	17.93	107.47	-74.71	100	287 Peak	Open	
6	0.12	29.95	11.93	18.02	105.71	-75.76	100	174 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	50.82	31.79	19.03	68.27	-17.45	100	247 Peak	Open	
2	3.70	35.93	16.38	19.55	69.50	-33.57	100	279 Peak	Open	
3	8.42	33.17	12.33	20.84	69.50	-36.33	100	236 Peak	Open	
4	12.12	36.27	14.63	21.64	69.50	-33.23	100	43 Peak	Open	
5	17.64	34.89	12.88	22.01	69.50	-34.61	100	61 Peak	Open	
6	24.63	35.62	13.42	22.20	69.50	-33.88	100	214 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

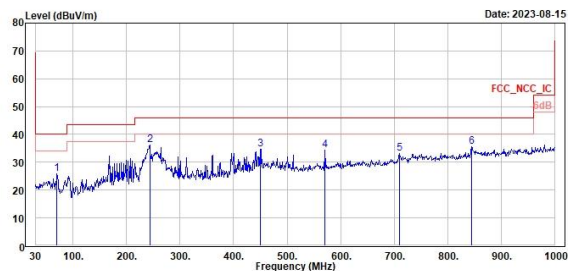
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



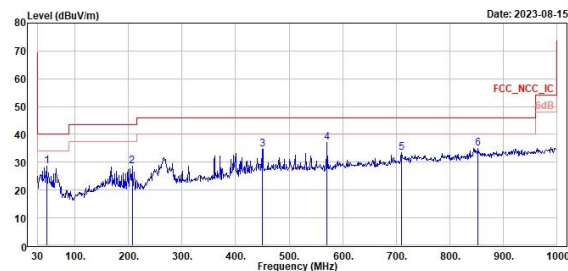
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	69.77	25.95	34.59	-8.64	40.00	-14.05	300	158 Peak	Horizontal	
2	243.40	36.20	42.75	-6.55	46.00	-9.80	100	190 Peak	Horizontal	
3	450.01	34.65	36.64	-1.99	46.00	-11.35	300	108 Peak	Horizontal	
4	571.26	34.38	34.91	-0.53	46.00	-11.62	200	104 Peak	Horizontal	
5	709.97	33.03	30.04	2.19	46.00	-12.97	100	255 Peak	Horizontal	
6	844.00	35.47	31.35	4.12	46.00	-10.53	200	260 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	46.49	28.47	34.34	-5.87	40.00	-11.53	100	303 Peak	Vertical	
2	206.54	28.45	37.17	-8.72	43.50	-15.05	100	260 Peak	Vertical	
3	450.01	34.70	36.69	-1.99	46.00	-11.30	100	360 Peak	Vertical	
4	571.26	37.11	37.64	-0.53	46.00	-8.89	100	161 Peak	Vertical	
5	709.97	33.99	31.20	2.19	46.00	-12.61	400	91 Peak	Vertical	
6	853.53	34.93	30.88	4.05	46.00	-11.07	400	179 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

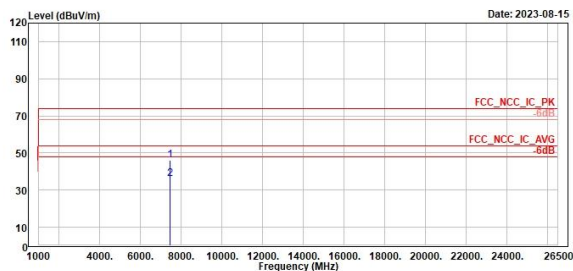
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



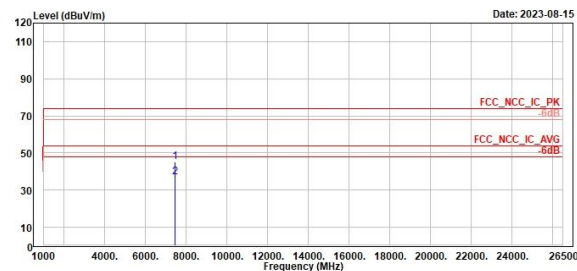
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7440.00	46.01	53.19	-7.18	74.00	-27.99	100	292	Peak	Horizontal		
2	7440.00	36.16	43.34	-7.18	54.00	-17.84	100	292	Average	Horizontal		



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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	7440.00	45.14	52.32	-7.18	74.00	-28.86	300	148	Peak	Vertical		
2	7440.00	36.93	44.11	-7.18	54.00	-17.07	300	148	Average	Vertical		