

Appendix C: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test for UFL Antenna

Main Source, ECC Mode for Antenna No. 5

Band Edges, 2.31GHz ~ 2.9GHz

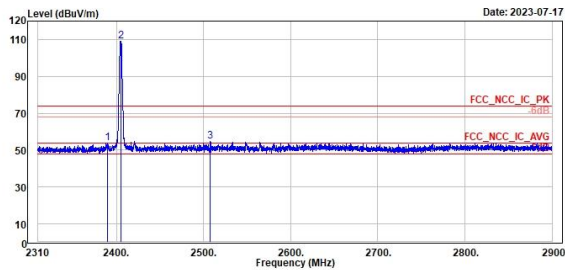
Zigbee_250kHz

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



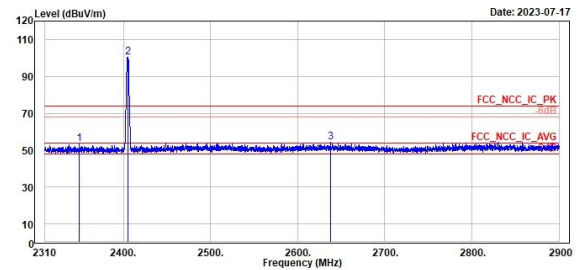
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2398.00	54.04	16.87	37.17	74.00	-19.96		335	170	Peak	Horizontal	
2 *	2405.00	108.97	71.77	37.20	74.00	34.97		335	170	Peak	Horizontal	
3	2508.00	54.61	17.07	37.54	74.00	-19.39		335	170	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	2349.29	53.26	16.06	37.20	74.00	-20.74		374	148	Peak	Vertical	
2 *	2405.00	100.28	63.08	37.20	74.00	26.28		374	148	Peak	Vertical	
3	2637.92	54.42	16.81	37.61	74.00	-19.58		374	148	Peak	Vertical	

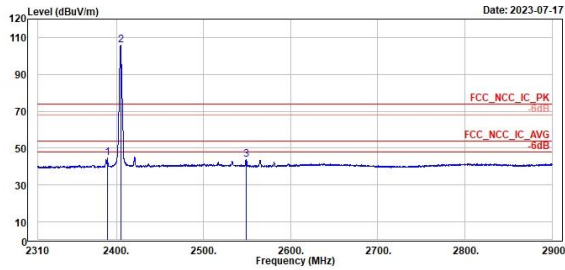
Zigbee_250kHz

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



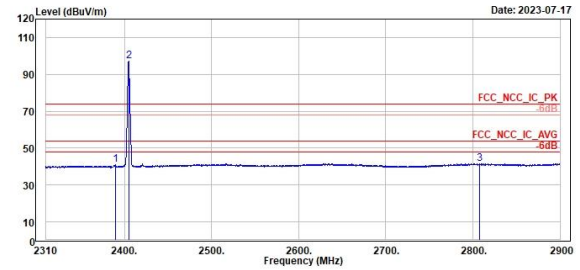
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.65	44.70	7.53	37.17	54.00	-9.30	335	170	Average	Horizontal		
2 *	2405.00	105.74	68.54	37.20	54.00	51.74	335	170	Average	Horizontal		
3	2548.95	44.00	6.59	37.41	54.00	-10.00	335	170	Average	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.53	40.91	3.74	37.17	54.00	-13.09	374	148	Average	Vertical		
2 *	2405.00	97.28	60.08	37.20	54.00	43.28	374	148	Average	Vertical		
3	2800.08	41.55	3.81	37.74	54.00	-12.45	374	148	Average	Vertical		

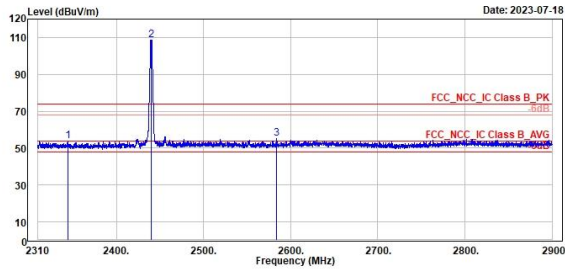
Zigbee_250kHz

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



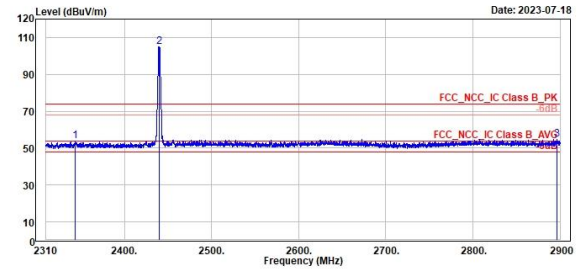
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2344.34	53.79	16.64	37.15	74.00	-20.21		372	182	Peak	Horizontal	
2 *	2440.00	108.64	71.20	37.44	74.00	34.64		372	182	Peak	Horizontal	
3	2583.52	55.06	17.49	37.57	74.00	-18.94		372	182	Peak	Horizontal	



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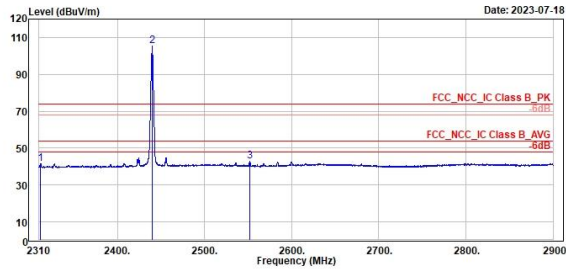
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2343.16	53.67	16.52	37.15	74.00	-20.33		355	116	Peak	Vertical	
2 *	2440.00	104.85	67.41	37.44	74.00	30.85		355	116	Peak	Vertical	
3	2896.11	54.86	16.95	37.91	74.00	-19.14		355	116	Peak	Vertical	

Zigbee_250kHz

Middle Channel (Horizontal) Average



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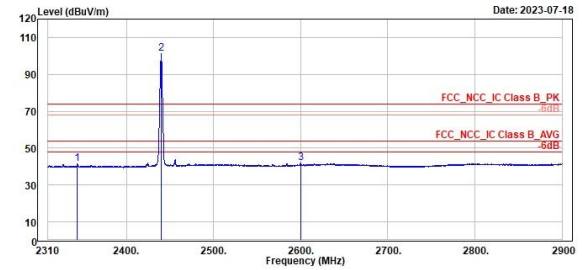


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2312.12	41.68	4.73	36.87	54.00	-12.40		372	182	Average	Horizontal	
2 *	2440.00	105.21	67.77	37.44	54.00	51.21		372	182	Average	Horizontal	
3	2552.02	42.84	5.42	37.42	54.00	-11.16		372	182	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	41.31	4.16	37.15	54.00	-12.69		355	116	Average	Vertical	
2 *	2440.00	101.35	63.91	37.44	54.00	47.35		355	116	Average	Vertical	
3	2599.81	41.81	4.16	37.65	54.00	-12.19		355	116	Average	Vertical	

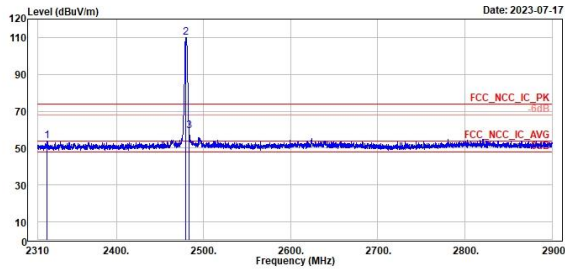
Zigbee_250kHz

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



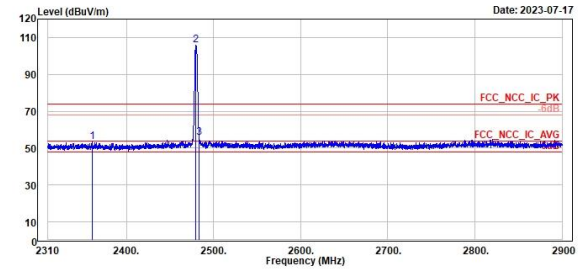
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2328.62	53.85	16.91	36.94	74.00	-20.15		352		7 Peak	Horizontal	
2 *	2480.00	110.13	72.59	37.54	74.00	36.13		352		7 Peak	Horizontal	
3	2483.58	59.14	21.60	37.54	74.00	-14.86		352		7 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	2360.62	53.37	16.17	37.20	74.00	-20.63		345		278 Peak	Vertical	
2 *	2480.00	105.73	68.19	37.54	74.00	31.73		345		278 Peak	Vertical	
3	2483.46	55.75	18.21	37.54	74.00	-18.25		345		278 Peak	Vertical	

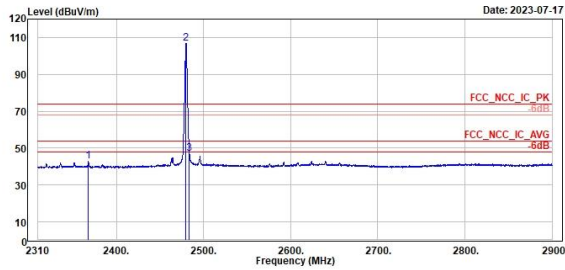
Zigbee_250kHz

High Channel (Horizontal) Average

High Channel (Vertical) Average



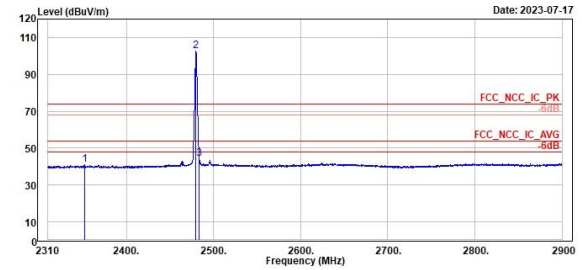
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	Limit	cm	deg			
1	2368.06	42.88	5.69	37.19	54.00	-11.12	352	7	Average	Horizontal		
2 *	2480.00	106.98	69.44	37.54	54.00	52.98	352	7	Average	Horizontal		
3	2483.46	47.16	9.62	37.54	54.00	-6.84	352	7	Average	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	Limit	cm	deg			
1	2351.89	40.92	3.71	37.21	54.00	-13.08	345	278	Average	Vertical		
2 *	2480.00	102.57	65.03	37.54	54.00	48.57	345	278	Average	Vertical		
3	2483.46	44.06	6.52	37.54	54.00	-9.94	345	278	Average	Vertical		

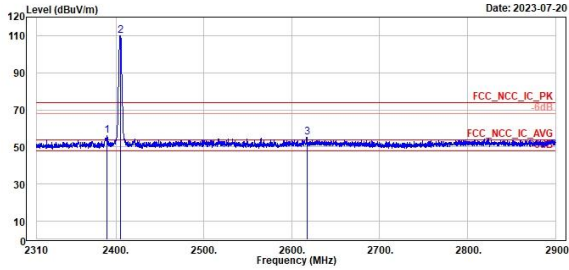
Zigbee_1Mbps

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



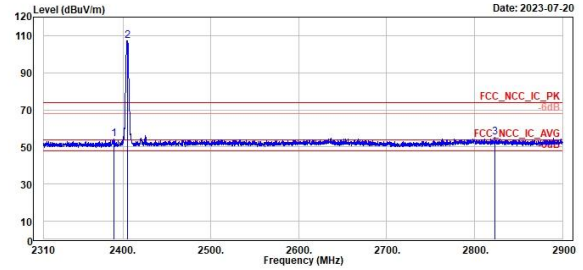
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.77	56.27	19.10	37.17	74.00	-17.73	384	24	Peak	Horizontal		
2 *	2405.00	109.94	72.74	37.20	74.00	35.94	384	24	Peak	Horizontal		
3	2617.15	55.14	17.50	37.64	74.00	-18.86	384	24	Peak	Horizontal		



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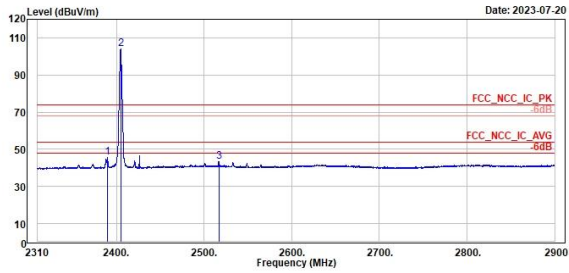
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.77	54.16	16.99	37.17	74.00	-19.84	322	99	Peak	Vertical		
2 *	2405.00	107.04	69.84	37.20	74.00	33.04	322	99	Peak	Vertical		
3	2822.95	55.07	17.31	37.76	74.00	-18.93	322	99	Peak	Vertical		

Zigbee_1Mbps

Low Channel (Horizontal) Average



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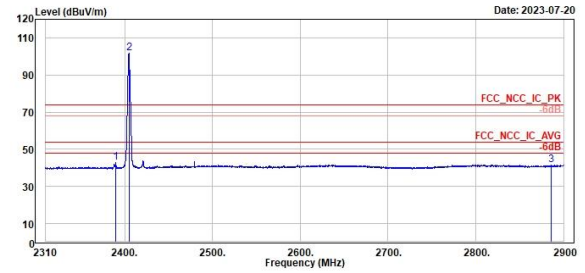


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.65	45.78	8.61	37.17	54.00	-8.22	384	24	Average	Horizontal		
2 *	2405.00	104.26	67.06	37.20	54.00	50.26	384	24	Average	Horizontal		
3	2516.97	43.29	5.78	37.51	54.00	-10.71	384	24	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	42.82	5.65	37.17	54.00	-11.18	322	99	Average	Vertical		
2 *	2405.00	101.60	64.40	37.20	54.00	47.60	322	99	Average	Vertical		
3	2886.19	41.51	3.62	37.89	54.00	-12.49	322	99	Average	Vertical		

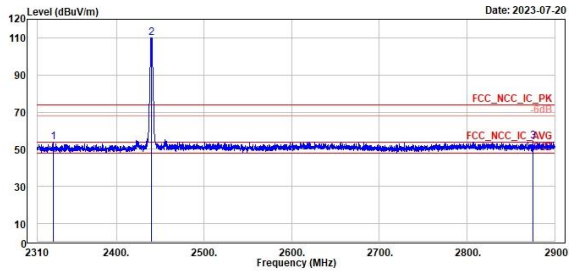
Zigbee_1Mbps

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



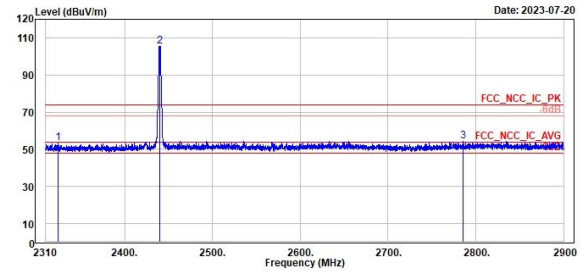
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2328.29	53.88	16.86	37.02	74.00	-20.12	366	29	Peak	Horizontal		
2 *	2440.00	109.95	72.51	37.44	74.00	35.95	366	29	Peak	Horizontal		
3	2874.87	54.50	16.65	37.85	74.00	-19.50	366	29	Peak	Horizontal		



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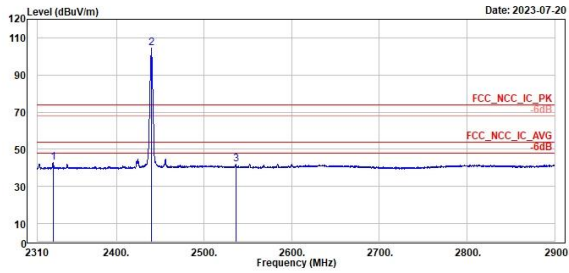
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2324.63	53.35	16.37	36.98	74.00	-20.65	363	282	Peak	Vertical		
2 *	2440.00	105.57	68.13	37.44	74.00	31.57	363	282	Peak	Vertical		
3	2785.66	54.31	16.70	37.61	74.00	-19.69	363	282	Peak	Vertical		

Zigbee_1Mbps

Middle Channel (Horizontal) Average



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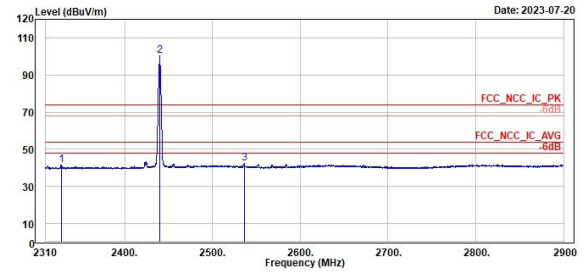


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2327.94	42.87	5.86	37.01	54.00	-11.13	366	29	Average	Horizontal		
2 *	2440.00	104.46	67.02	37.44	54.00	50.46	366	29	Average	Horizontal		
3	2536.09	42.05	4.60	37.45	54.00	-11.95	366	29	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	2328.05	41.59	4.58	37.01	54.00	-12.41	363	282	Average	Vertical		
2 *	2440.00	100.25	62.81	37.44	54.00	46.25	363	282	Average	Vertical		
3	2536.09	42.37	4.92	37.45	54.00	-11.63	363	282	Average	Vertical		

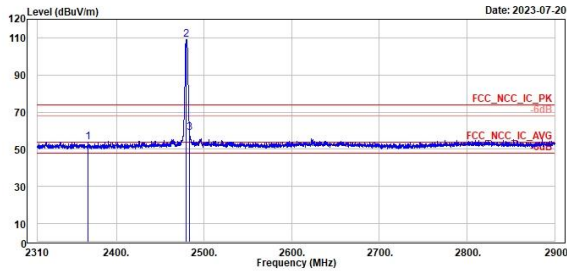
Zigbee_1Mbps

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



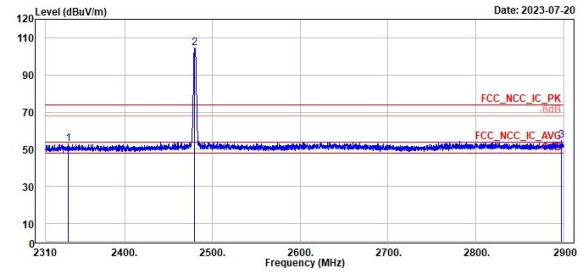
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	Limit	cm	deg			
1	2367.82	54.07	16.88	37.19	74.00	-19.93		312	191	Peak	Horizontal	
2 *	2480.00	109.11	71.57	37.54	74.00	35.11		312	191	Peak	Horizontal	
3	2483.46	58.72	21.18	37.54	74.00	-15.28		312	191	Peak	Horizontal	



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	Limit	cm	deg			
1	2335.96	52.86	15.77	37.09	74.00	-21.14		384	119	Peak	Vertical	
2 *	2480.00	104.35	66.81	37.54	74.00	30.35		384	119	Peak	Vertical	
3	2897.17	54.53	16.61	37.92	74.00	-19.47		384	119	Peak	Vertical	

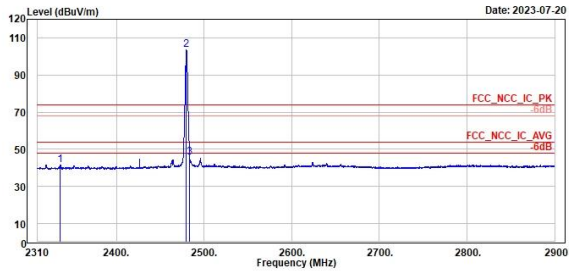
Zigbee_1Mbps

High Channel (Horizontal) Average

High Channel (Vertical) Average



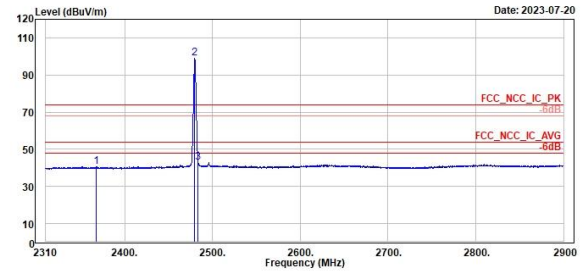
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2335.84	41.71	4.62	37.09	54.00	-12.29		312	191	Average	Horizontal	
2 *	2480.00	103.55	66.01	37.54	54.00	49.55		312	191	Average	Horizontal	
3	2483.46	45.65	8.11	37.54	54.00	-8.35		312	191	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	2367.70	40.73	3.54	37.19	54.00	-13.27		384	119	Average	Vertical	
2 *	2480.00	99.07	61.53	37.54	54.00	45.07		384	119	Average	Vertical	
3	2483.46	43.06	5.52	37.54	54.00	-10.94		384	119	Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

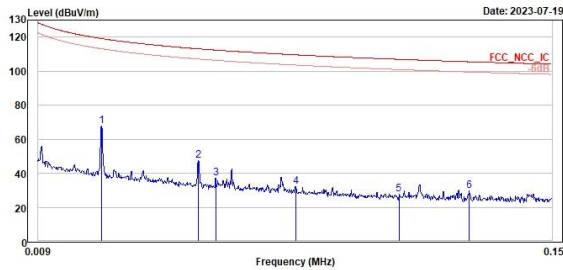
Zigbee_250kHz

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



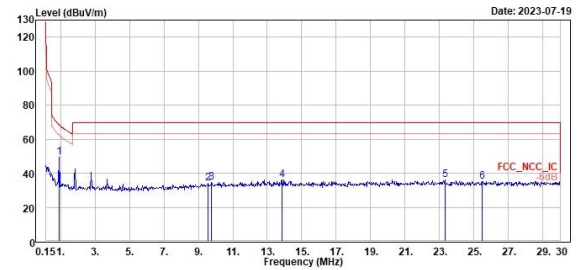
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit					
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	67.83	48.88	18.95	119.13	-51.30	100	47 Peak	Open	
2	0.05	47.46	28.41	19.05	113.11	-65.65	100	121 Peak	Open	
3	0.06	36.96	18.03	18.93	112.36	-75.40	100	167 Peak	Open	
4	0.08	32.15	13.74	18.41	109.57	-77.42	100	188 Peak	Open	
5	0.11	27.77	9.82	17.95	106.93	-79.16	100	127 Peak	Open	
6	0.13	29.59	11.56	18.03	105.50	-75.91	100	136 Peak	Open	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit					
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.93	49.64	30.61	19.03	68.27	-18.63	100	140 Peak	Open	
2	9.58	34.13	12.81	21.32	69.50	-35.37	100	88 Peak	Open	
3	9.76	34.80	13.41	21.39	69.50	-34.70	100	121 Peak	Open	
4	13.85	36.10	14.35	21.75	69.50	-33.40	100	44 Peak	Open	
5	23.31	36.19	14.00	22.19	69.50	-33.31	100	80 Peak	Open	
6	25.49	35.32	13.12	22.20	69.50	-34.18	100	86 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

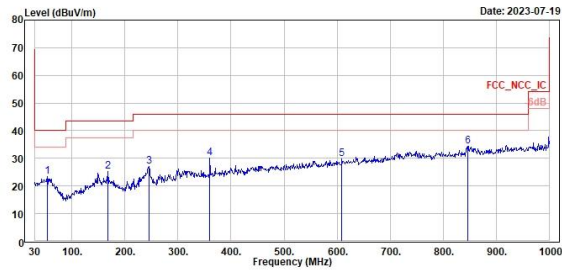
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



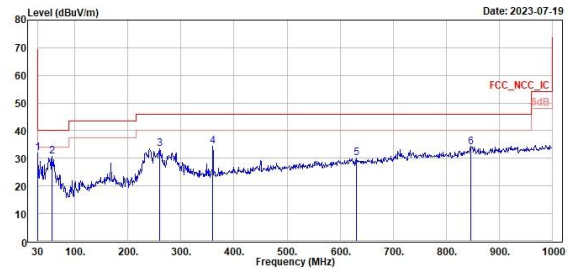
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	53.28	23.46	29.12	-5.66	40.00	-16.54	200	97 Peak	Horizontal	
2	167.74	25.19	30.91	-5.72	43.50	-18.31	200	106 Peak	Horizontal	
3	245.34	26.93	33.46	-6.53	46.00	-19.07	200	90 Peak	Horizontal	
4	359.80	30.19	35.75	-3.56	46.00	-15.81	200	157 Peak	Horizontal	
5	609.89	29.90	29.43	0.47	46.00	-16.10	200	221 Peak	Horizontal	
6	846.74	34.26	30.16	4.10	46.00	-11.74	200	278 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	30.00	32.07	39.73	-7.66	40.00	-7.93	100	173 Peak	Vertical	
2	56.19	30.62	36.56	-5.94	40.00	-9.38	200	317 Peak	Vertical	
3	259.89	33.53	39.69	-6.16	46.00	-12.47	100	108 Peak	Vertical	
4	359.80	34.51	38.07	-3.56	46.00	-11.49	100	45 Peak	Vertical	
5	630.43	30.06	29.03	1.03	46.00	-15.94	200	129 Peak	Vertical	
6	846.74	34.18	30.08	4.10	46.00	-11.82	200	93 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

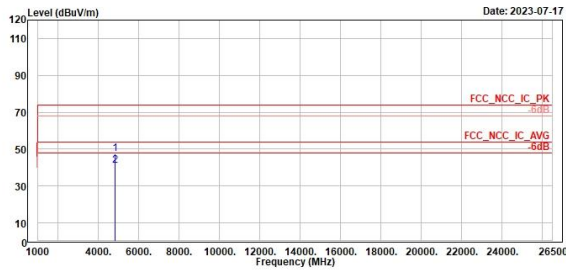
Zigbee_250kHz

Low Channel (Horizontal)

Low Channel (Vertical)



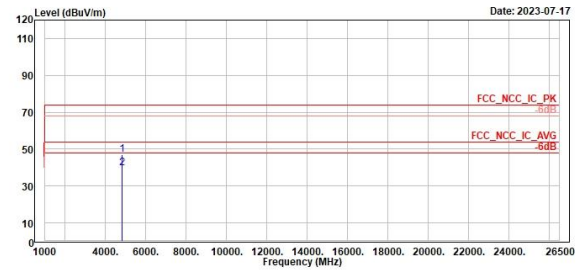
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	4810.00	47.55	56.57	-9.02	74.00	-26.45	293	360 Peak	Horizontal	
2	4810.00	40.89	49.91	-9.02	54.00	-13.11	293	360 Average	Horizontal	



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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	4810.00	47.14	56.16	-9.02	74.00	-26.86	300	292 Peak	Vertical	
2	4810.00	39.69	48.71	-9.02	54.00	-14.31	300	292 Average	Vertical	

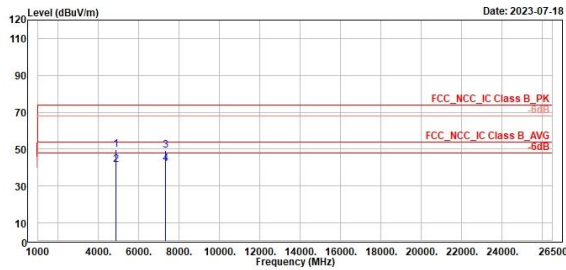
Zigbee_250kHz

Middle Channel (Horizontal)

Middle Channel (Vertical)



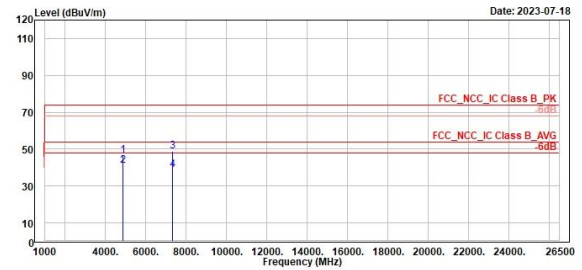
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	4888.00	49.52	58.56	-9.04	74.00	-24.48	302	360	Peak	Horizontal		
2	4888.00	41.37	50.41	-9.04	54.00	-12.63	302	360	Average	Horizontal		
3	7320.00	49.22	56.30	-7.08	74.00	-24.78	100	322	Peak	Horizontal		
4	7320.00	41.75	48.83	-7.08	54.00	-12.25	100	322	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		cm	deg			
1	4888.00	46.44	55.48	-9.04	74.00	-27.56	400	305	Peak	Vertical		
2	4888.00	41.27	50.31	-9.04	54.00	-12.73	400	305	Average	Vertical		
3	7320.00	49.02	56.10	-7.08	74.00	-24.98	100	301	Peak	Vertical		
4	7320.00	38.95	46.03	-7.08	54.00	-15.05	100	301	Average	Vertical		

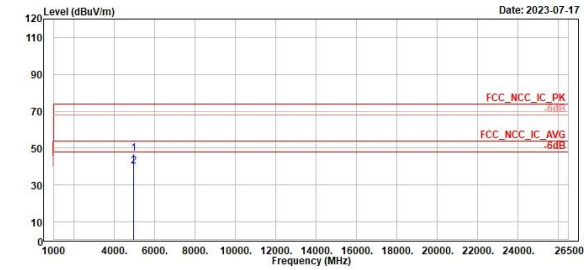
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



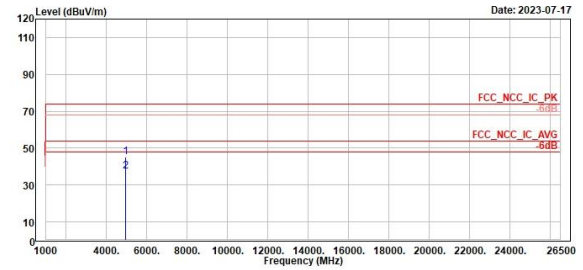
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	46.89	55.73	-8.84	74.00	-27.11	291	360	Peak	Horizontal		
2	4960.00	40.34	49.18	-8.84	54.00	-13.66	291	360	Average	Horizontal		



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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	45.13	53.97	-8.84	74.00	-28.87	100	319	Peak	Vertical		
2	4960.00	37.34	46.18	-8.84	54.00	-16.66	100	319	Average	Vertical		

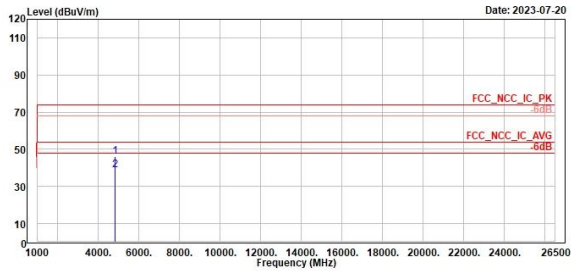
Zigbee_1Mbps

Low Channel (Horizontal)

Low Channel (Vertical)



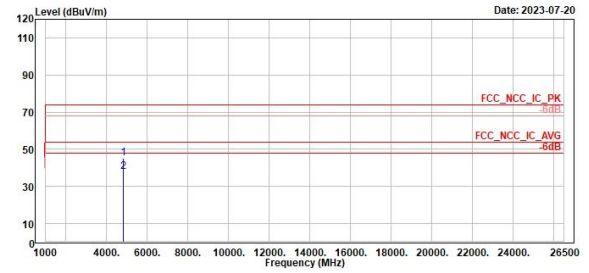
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Line	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4810.00	46.29	55.31	-9.02	74.00	-27.71	200	347	Peak	Horizontal	
2	4810.00	38.95	47.97	-9.02	54.00	-15.05	200	347	Average	Horizontal	



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Line	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	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	

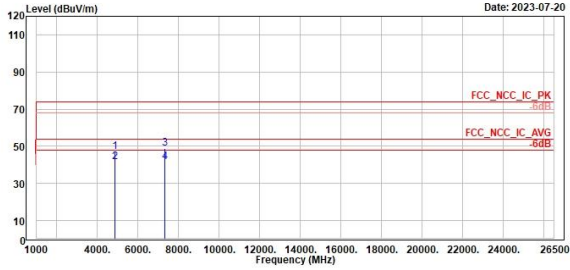
Zigbee_1Mbps

Middle Channel (Horizontal)

Middle Channel (Vertical)



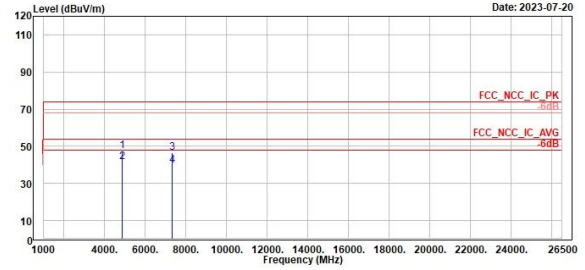
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	47.05	56.09	-9.04	74.00	-26.95	300	360	Peak	Horizontal		
2	4880.00	41.53	50.57	-9.04	54.00	-12.47	300	360	Average	Horizontal		
3	7320.00	48.84	55.92	-7.08	74.00	-25.16	100	322	Peak	Horizontal		
4	7320.00	41.55	48.63	-7.08	54.00	-12.45	100	322	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	47.55	56.59	-9.04	74.00	-26.45	200	298	Peak	Vertical		
2	4880.00	41.42	50.46	-9.04	54.00	-12.58	200	298	Average	Vertical		
3	7320.00	46.73	53.81	-7.08	74.00	-27.27	100	181	Peak	Vertical		
4	7320.00	39.88	46.96	-7.08	54.00	-14.12	100	181	Average	Vertical		

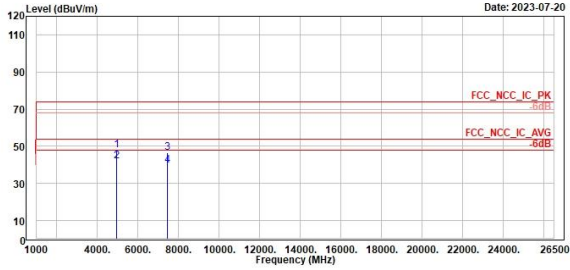
Zigbee_1Mbps

High Channel (Horizontal)

High Channel (Vertical)



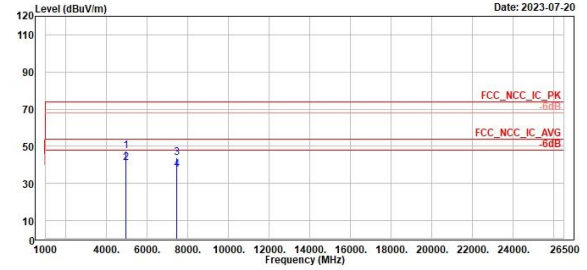
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	47.78	56.62	-8.84	74.00	-26.22	299	11	Peak	Horizontal		
2	4960.00	41.89	50.73	-8.84	54.00	-12.11	299	11	Average	Horizontal		
3	7440.00	46.44	53.62	-7.18	74.00	-27.56	142	117	Peak	Horizontal		
4	7440.00	39.73	46.91	-7.18	54.00	-14.27	142	117	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	47.50	56.34	-8.84	74.00	-26.50	221	77	Peak	Vertical		
2	4960.00	41.27	50.11	-8.84	54.00	-12.73	221	77	Average	Vertical		
3	7440.00	43.97	51.15	-7.18	74.00	-30.03	100	166	Peak	Vertical		
4	7440.00	37.48	44.66	-7.18	54.00	-16.52	100	166	Average	Vertical		

Mains Conducted Emission, 150kHz ~ 30MHz

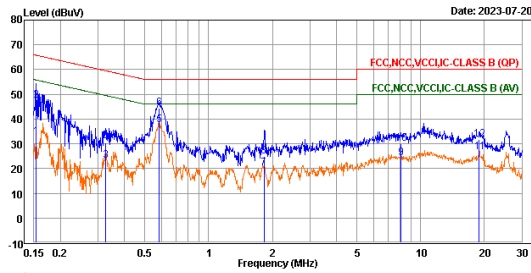
Worst Band

(Line)

(Neutral)



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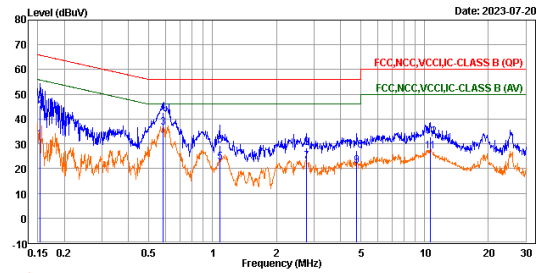


Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	32.65	23.03	9.62	55.79	-23.14	Average	line1	
2	0.15	47.95	37.73	9.62	65.79	-18.44	QP	line1	
3	0.33	23.10	13.48	9.62	49.50	-26.40	Average	line1	
4	0.33	30.38	20.76	9.62	59.50	-29.12	QP	line1	
5	0.58	37.65	28.02	9.63	46.00	-8.35	Average	line1	
6	0.58	44.44	34.81	9.63	56.00	-11.56	QP	line1	
7	1.82	20.04	10.38	9.66	46.00	-25.96	Average	line1	
8	1.82	25.03	15.37	9.66	56.00	-30.97	QP	line1	
9	8.05	24.16	14.42	9.74	50.00	-25.84	Average	line1	
10	8.05	30.08	20.34	9.74	60.00	-29.92	QP	line1	
11	18.87	26.47	16.70	9.77	50.00	-23.53	Average	line1	
12	18.87	31.89	22.12	9.77	60.00	-28.11	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	31.60	21.98	9.62	55.79	-24.19	Average	neutral	
2	0.15	45.41	35.79	9.62	65.79	-20.38	QP	neutral	
3	0.58	36.42	26.79	9.63	46.00	-9.58	Average	neutral	
4	0.58	42.84	33.21	9.63	56.00	-13.16	QP	neutral	
5	1.08	22.54	12.90	9.64	46.00	-23.46	Average	neutral	
6	1.08	29.24	19.60	9.64	56.00	-26.76	QP	neutral	
7	2.77	22.72	13.04	9.68	46.00	-23.28	Average	neutral	
8	2.77	28.17	18.49	9.68	56.00	-27.83	QP	neutral	
9	4.79	21.11	11.40	9.71	46.00	-24.89	Average	neutral	
10	4.79	27.23	17.52	9.71	56.00	-26.77	QP	neutral	
11	10.64	26.84	17.05	9.79	50.00	-23.16	Average	neutral	
12	10.64	32.78	22.99	9.79	60.00	-27.22	QP	neutral	

Main Source, Non-ECC Mode for Antenna No. 5
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

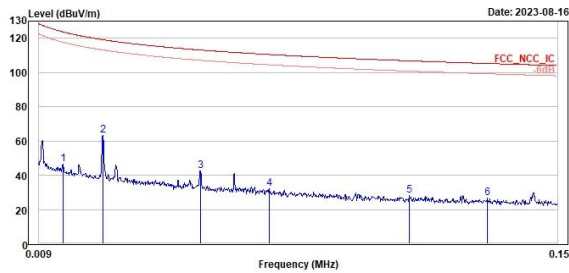
Zigbee_250kHz

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



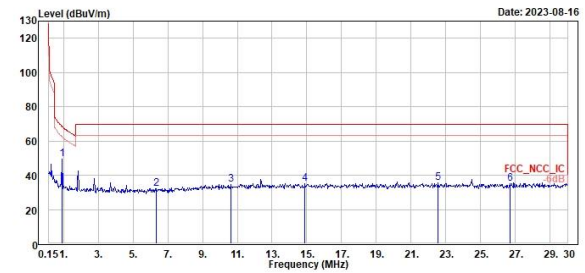
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.02	46.58	28.45	18.13	123.71	-77.13	100	333 Peak	Open	
2	0.03	63.05	44.10	18.95	119.11	-56.08	100	44 Peak	Open	
3	0.05	42.70	23.65	19.05	113.11	-70.41	100	15 Peak	Open	
4	0.07	32.00	13.40	18.60	110.48	-78.48	100	253 Peak	Open	
5	0.11	28.01	10.05	17.96	106.79	-78.78	100	327 Peak	Open	
6	0.13	26.81	8.77	18.04	105.25	-78.44	100	195 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	49.44	30.41	19.03	68.27	-18.83	100	239 Peak	Open	
2	6.33	32.16	12.18	19.98	69.50	-37.34	100	253 Peak	Open	
3	10.63	34.58	13.04	21.54	69.50	-34.92	100	343 Peak	Open	
4	14.90	35.17	13.35	21.82	69.50	-34.33	100	133 Peak	Open	
5	22.57	35.42	13.23	22.19	69.50	-34.08	100	195 Peak	Open	
6	26.69	35.12	12.91	22.21	69.50	-34.38	100	98 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

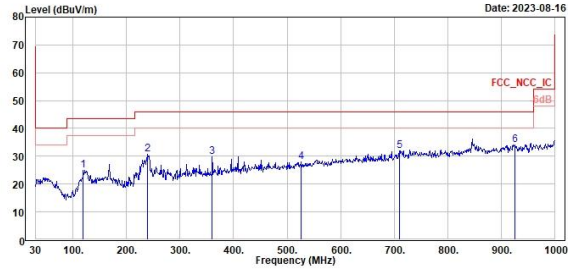
Zigbee_250kHz

High Channel (Horizontal)

High Channel (Vertical)



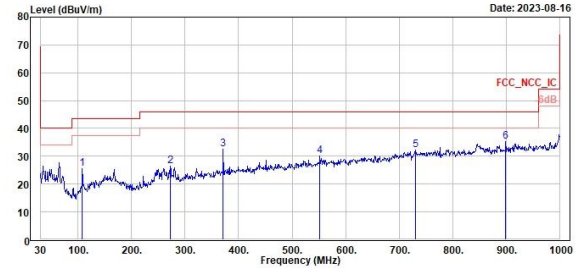
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	119.24	24.97	34.16	-9.19	43.50	-18.53	100	308	Peak	Horizontal		
2	239.52	30.87	37.47	-6.60	46.00	-15.13	100	137	Peak	Horizontal		
3	359.80	29.75	33.31	-3.56	46.00	-16.25	100	346	Peak	Horizontal		
4	526.64	27.95	28.81	-0.86	46.00	-18.05	100	153	Peak	Horizontal		
5	709.97	31.97	29.78	2.19	46.00	-14.03	100	276	Peak	Horizontal		
6	925.31	34.14	28.84	5.30	46.00	-11.86	100	141	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	107.60	25.64	35.64	-10.00	43.50	-17.86	100	203	Peak	Vertical		
2	272.50	26.54	32.28	-5.74	46.00	-19.46	100	279	Peak	Vertical		
3	371.44	32.57	35.94	-3.37	46.00	-13.43	100	257	Peak	Vertical		
4	551.86	30.08	30.30	-0.22	46.00	-15.92	100	240	Peak	Vertical		
5	731.31	32.22	30.01	2.21	46.00	-13.78	100	119	Peak	Vertical		
6	899.12	35.14	30.46	4.68	46.00	-10.86	100	323	Peak	Vertical		

Main Source, ECC Mode for Antenna No. 6

Band Edges, 2.31GHz ~ 2.9GHz

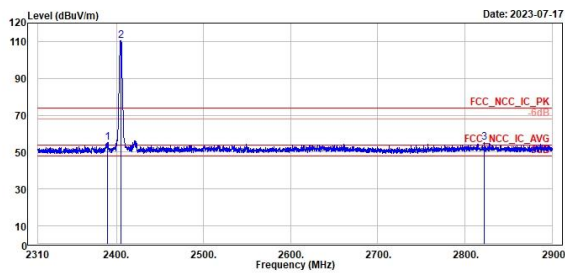
Zigbee_250kHz

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



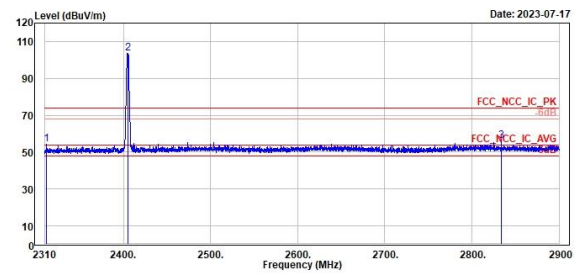
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2389.89	55.30	18.13	37.17	74.00	-18.70		383	29	Peak	Horizontal	
2 *	2405.00	110.52	73.32	37.20	74.00	36.52		383	29	Peak	Horizontal	
3	2821.77	55.06	17.30	37.76	74.00	-18.94		383	29	Peak	Horizontal	



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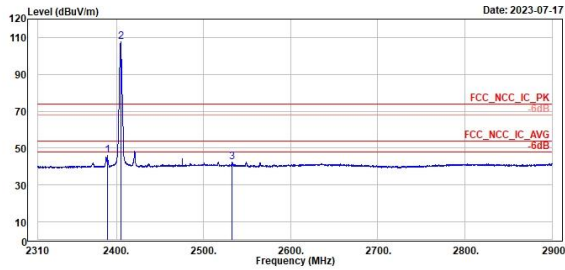
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2311.77	54.30	17.44	36.86	74.00	-19.70		312	200	Peak	Vertical	
2 *	2405.00	103.65	66.45	37.20	74.00	29.65		312	200	Peak	Vertical	
3	2833.57	56.08	18.31	37.77	74.00	-17.92		312	200	Peak	Vertical	

Zigbee_250kHz

Low Channel (Horizontal) Average



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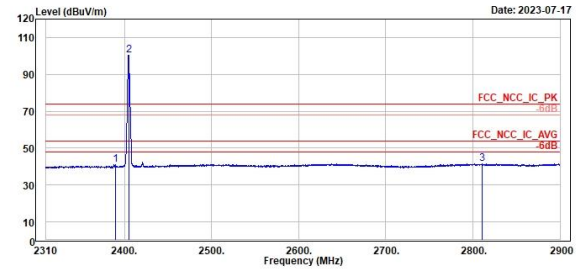


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.65	46.15	8.98	37.17	54.00	-7.85	383	29	Average	Horizontal		
2 *	2405.00	107.50	70.30	37.20	54.00	53.50	383	29	Average	Horizontal		
3	2532.78	42.52	5.06	37.46	54.00	-11.48	383	29	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	41.18	4.01	37.17	54.00	-12.82	312	200	Average	Vertical		
2 *	2405.00	100.39	63.19	37.20	54.00	46.39	312	200	Average	Vertical		
3	2810.56	41.56	3.81	37.75	54.00	-12.44	312	200	Average	Vertical		

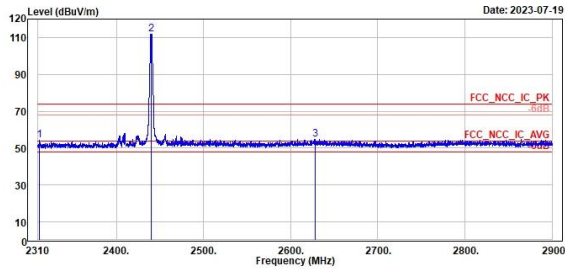
Zigbee_250kHz

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



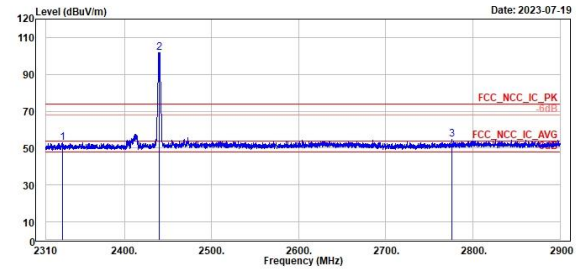
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2311.42	54.21	17.35	36.86	74.00	-19.79		330	74	Peak	Horizontal	
2 *	2440.00	111.78	74.34	37.44	74.00	37.78		330	74	Peak	Horizontal	
3	2627.77	54.81	17.19	37.62	74.00	-19.19		330	74	Peak	Horizontal	



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2328.64	52.82	15.80	37.02	74.00	-21.18		267	296	Peak	Vertical	
2 *	2440.00	101.80	64.36	37.44	74.00	27.80		267	296	Peak	Vertical	
3	2775.98	54.68	17.16	37.52	74.00	-19.32		267	296	Peak	Vertical	

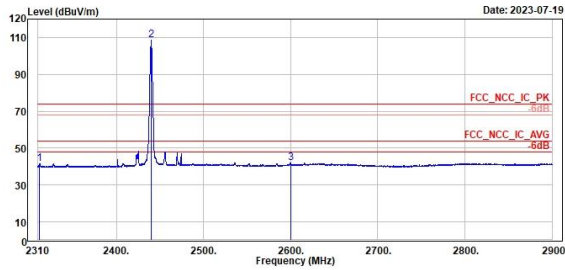
Zigbee_250kHz

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



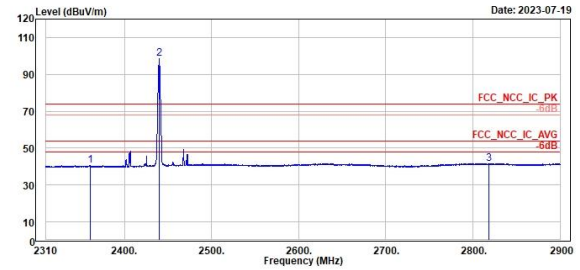
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2311.89	41.57	4.70	36.87	54.00	-12.43	330	74	Average	Horizontal	
2 *	2440.00	108.80	71.36	37.44	54.00	54.80	330	74	Average	Horizontal	
3	2600.04	41.97	4.32	37.65	54.00	-12.03	330	74	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	2360.86	40.74	3.54	37.20	54.00	-13.26	267	296	Average	Vertical	
2 *	2440.00	98.76	61.32	37.44	54.00	44.76	267	296	Average	Vertical	
3	2810.46	41.66	3.91	37.75	54.00	-12.34	267	296	Average	Vertical	

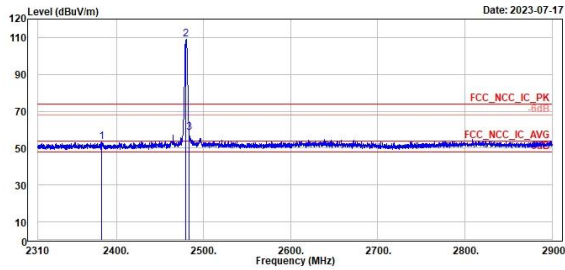
Zigbee_250kHz

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



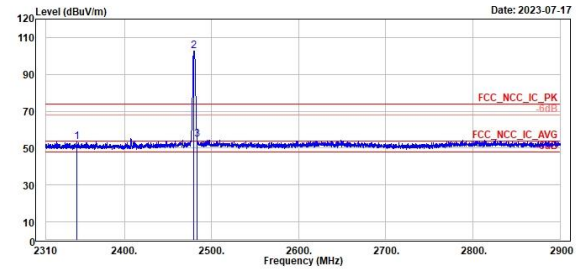
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2383.51	53.38	16.21	37.17	74.00	-20.62		328	315	Peak	Horizontal	
2 *	2480.00	108.93	71.39	37.54	74.00	34.93		328	315	Peak	Horizontal	
3	2483.46	58.58	21.04	37.54	74.00	-15.42		328	315	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	2345.64	53.33	16.15	37.18	74.00	-20.67		294	199	Peak	Vertical	
2 *	2480.00	102.63	65.09	37.54	74.00	28.63		294	199	Peak	Vertical	
3	2483.46	54.57	17.03	37.54	74.00	-19.43		294	199	Peak	Vertical	

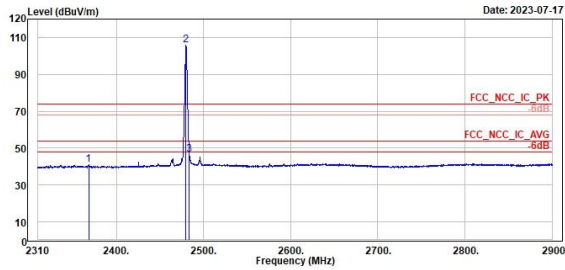
Zigbee_250kHz

High Channel (Horizontal) Average

High Channel (Vertical) Average



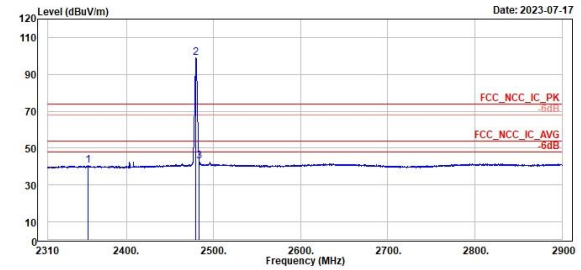
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2368.17	40.88	3.69	37.19	54.00	-13.12	328	315	Average	Horizontal		
2 *	2480.00	105.85	68.31	37.54	54.00	51.85	328	315	Average	Horizontal		
3	2483.46	46.43	8.89	37.54	54.00	-7.57	328	315	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	2355.78	40.42	3.21	37.21	54.00	-13.58	294	199	Average	Vertical		
2 *	2480.00	99.09	61.55	37.54	54.00	45.09	294	199	Average	Vertical		
3	2483.81	42.72	5.18	37.54	54.00	-11.28	294	199	Average	Vertical		

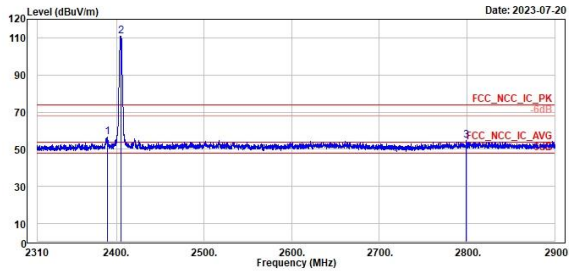
Zigbee_1Mbps

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



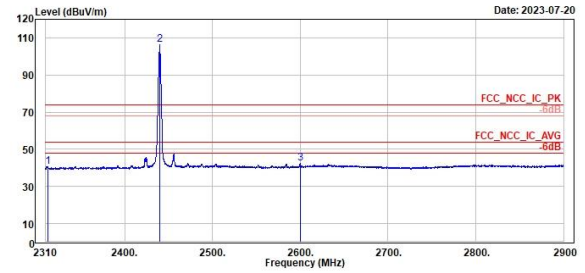
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2398.00	56.42	19.25	37.17	74.00	-17.58		346	81	Peak	Horizontal	
2 *	2405.00	110.98	73.78	37.20	74.00	36.98		346	81	Peak	Horizontal	
3	2799.11	54.68	16.95	37.73	74.00	-19.32		346	81	Peak	Horizontal	



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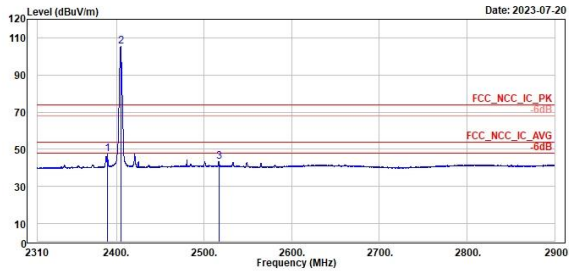
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2312.24	40.82	3.95	36.87	54.00	-13.18		295	81	Average	Horizontal	
2 *	2448.00	106.52	69.08	37.44	54.00	52.52		295	81	Average	Horizontal	
3	2600.28	42.31	4.66	37.65	54.00	-11.69		295	81	Average	Horizontal	

Zigbee_1Mbps

Low Channel (Horizontal) Average



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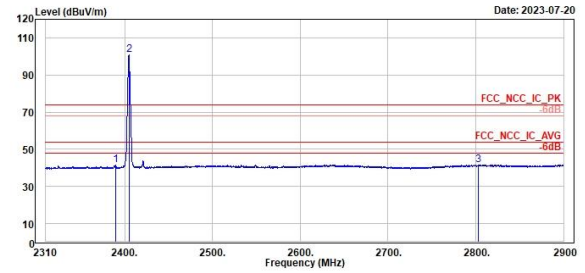


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.77	47.32	10.15	37.17	54.00	-6.68		346	81	Average	Horizontal	
2 *	2405.00	105.29	68.09	37.20	54.00	51.29		346	81	Average	Horizontal	
3	2516.85	43.52	6.01	37.51	54.00	-10.48		346	81	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	41.69	4.52	37.17	54.00	-12.31		276	185	Average	Vertical	
2 *	2405.00	100.66	63.46	37.20	54.00	46.66		276	185	Average	Vertical	
3	2802.77	41.59	3.85	37.74	54.00	-12.41		276	185	Average	Vertical	

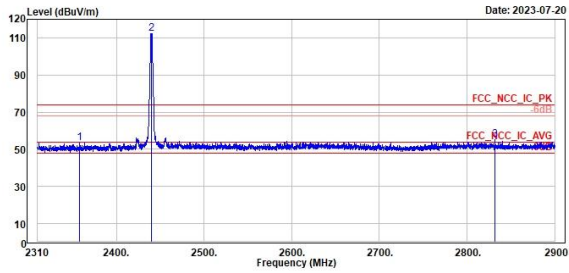
Zigbee_1Mbps

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



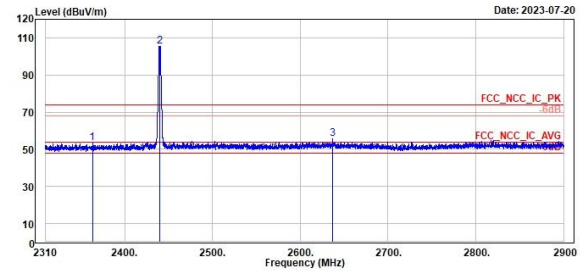
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2358.50	53.38	16.18	37.20	74.00	-20.62		295	81	Peak	Horizontal	
2 *	2440.00	112.14	74.70	37.44	74.00	38.14		295	81	Peak	Horizontal	
3	2831.91	54.99	17.22	37.77	74.00	-19.01		295	81	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	2363.34	53.44	16.25	37.19	74.00	-20.56		271	187	Peak	Vertical	
2 *	2440.00	105.43	67.99	37.44	74.00	31.43		271	187	Peak	Vertical	
3	2636.74	55.47	17.85	37.62	74.00	-18.53		271	187	Peak	Vertical	

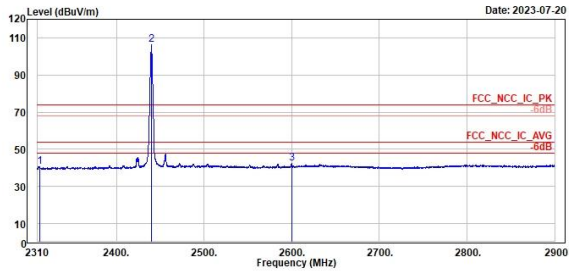
Zigbee_1Mbps

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



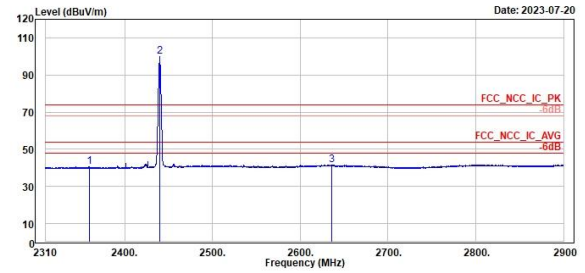
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2312.24	40.82	3.95	36.87	54.00	-13.18		295	81	Average	Horizontal	
2 *	2440.00	106.52	69.08	37.44	54.00	52.52		295	81	Average	Horizontal	
3	2600.28	42.31	4.66	37.65	54.00	-11.69		295	81	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	2360.27	40.58	3.38	37.20	54.00	-13.42		271	187	Average	Vertical	
2 *	2440.00	100.12	62.68	37.44	54.00	46.12		271	187	Average	Vertical	
3	2636.27	41.63	4.01	37.62	54.00	-12.37		271	187	Average	Vertical	

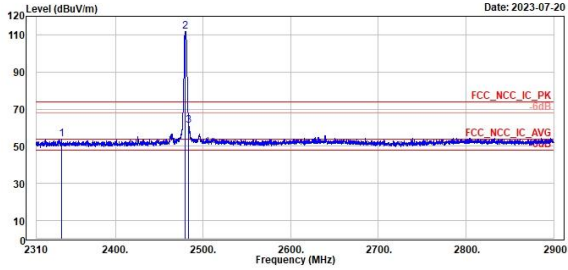
Zigbee_1Mbps

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



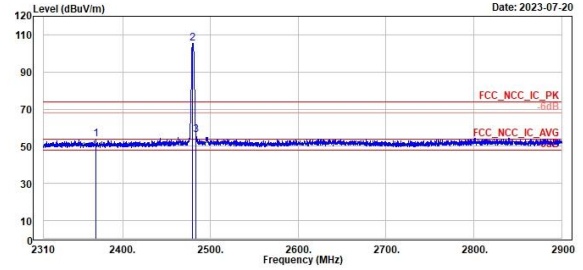
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2338.67	53.96	16.85	37.11	74.00	-20.04		287	77	Peak	Horizontal	
2 *	2480.00	111.00	74.26	37.54	74.00	37.00		287	77	Peak	Horizontal	
3	2483.46	61.10	23.56	37.54	74.00	-12.90		287	77	Peak	Horizontal	



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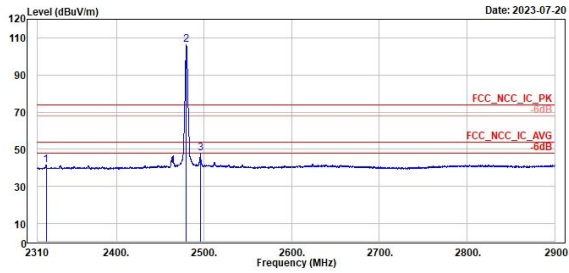
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2369.94	53.66	16.47	37.19	74.00	-20.34		291	188	Peak	Vertical	
2 *	2480.00	105.50	67.96	37.54	74.00	31.50		291	188	Peak	Vertical	
3	2483.46	56.28	18.74	37.54	74.00	-17.72		291	188	Peak	Vertical	

Zigbee_1Mbps

High Channel (Horizontal) Average



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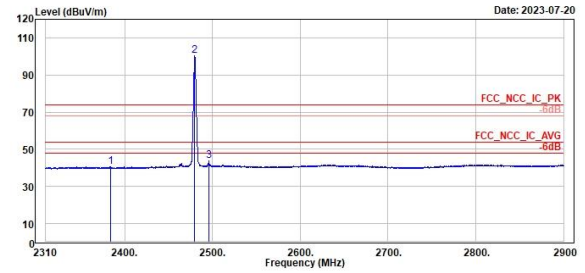


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2319.91	41.63	4.69	36.94	54.00	-12.37	287	77	Average	Horizontal		
2 *	2480.00	106.14	68.60	37.54	54.00	52.14	287	77	Average	Horizontal		
3	2495.97	47.81	10.25	37.56	54.00	-6.19	287	77	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	2383.99	40.55	3.38	37.17	54.00	-13.45	291	188	Average	Vertical		
2 *	2480.00	100.18	62.64	37.54	54.00	46.18	291	188	Average	Vertical		
3	2495.97	43.78	6.22	37.56	54.00	-10.22	291	188	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

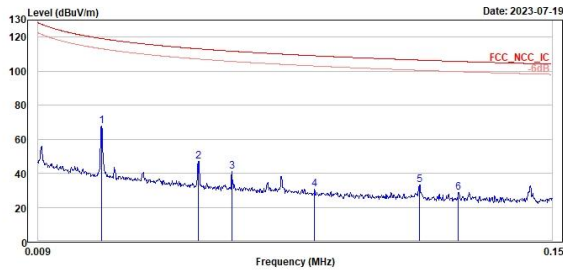
Zigbee_250kHz

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



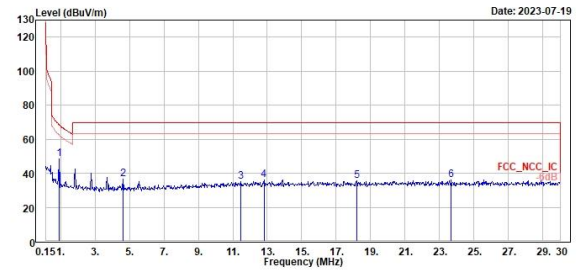
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	67.78	48.83	18.95	119.13	-51.35	100	96 Peak	Open	
2	0.05	47.10	28.05	19.05	113.11	-66.01	100	354 Peak	Open	
3	0.06	41.27	22.44	18.83	111.72	-70.45	100	142 Peak	Open	
4	0.08	30.59	12.31	18.28	109.02	-78.43	100	250 Peak	Open	
5	0.11	33.22	15.25	17.97	106.49	-73.27	100	69 Peak	Open	
6	0.12	28.90	10.88	18.02	105.71	-76.81	100	158 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	48.42	29.39	19.03	68.27	-19.85	100	134 Peak	Open	
2	4.63	36.42	16.95	19.47	69.50	-33.08	100	166 Peak	Open	
3	11.46	34.94	13.35	21.59	69.50	-34.56	100	76 Peak	Open	
4	12.81	35.96	14.28	21.68	69.50	-33.54	100	98 Peak	Open	
5	18.18	35.46	13.41	22.05	69.50	-34.04	100	278 Peak	Open	
6	23.67	36.20	14.01	22.19	69.50	-33.30	100	352 Peak	Open	