

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission for Dipole Antenna

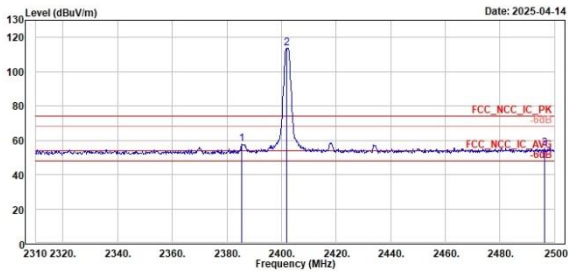
ANT 6, Main Source, ECC, PIC32WM-BZ6204UC
Band Edges, 2.31GHz ~ 2.5GHz

BLE_1M

Low Channel (Horizontal) Peak



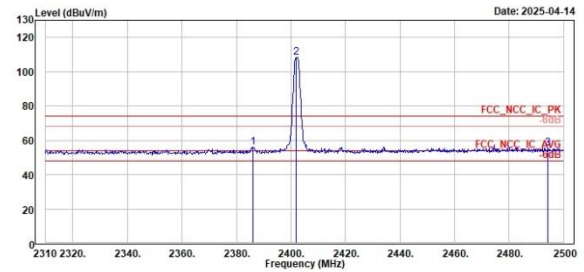
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	2385.43	57.80	19.64	38.16	74.00	-16.20	341	355 Peak	Horizontal	
2 *	2402.00	113.69	75.38	38.31	74.00	39.69	341	355 Peak	Horizontal	
3	2496.39	55.29	16.67	38.62	74.00	-18.71	341	355 Peak	Horizontal	



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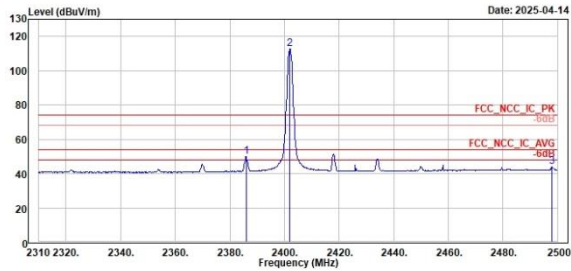
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	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	2386.19	55.96	17.79	38.17	74.00	-18.04	336	259 Peak	Vertical	
2 *	2402.00	108.43	70.12	38.31	74.00	34.43	336	259 Peak	Vertical	
3	2494.30	55.40	16.79	38.61	74.00	-18.60	336	259 Peak	Vertical	

BLE_1M

Low Channel (Horizontal) Average



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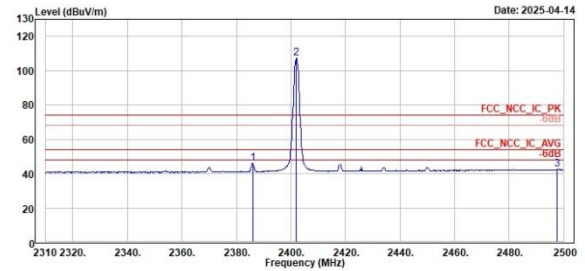


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2386.00	50.06	11.89	38.17	54.00	-3.94	341	355	Average	Horizontal		
2 *	2402.00	112.54	74.23	38.31	54.00	58.54	341	355	Average	Horizontal		
3	2497.91	43.76	5.14	38.62	54.00	-10.24	341	355	Average	Horizontal		

Low Channel (Vertical) Average



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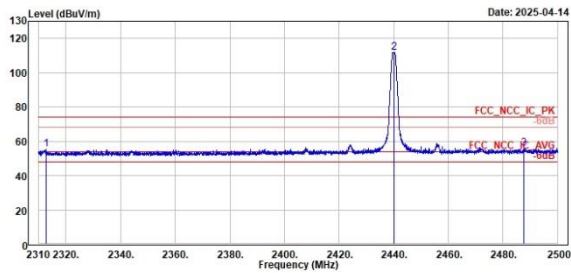
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2386.00	45.81	7.64	38.17	54.00	-8.19	336	259	Average	Vertical		
2 *	2402.00	107.40	69.09	38.31	54.00	53.40	336	259	Average	Vertical		
3	2497.72	42.64	4.02	38.62	54.00	-11.36	336	259	Average	Vertical		

BLE_1M

Middle Channel (Horizontal) Peak



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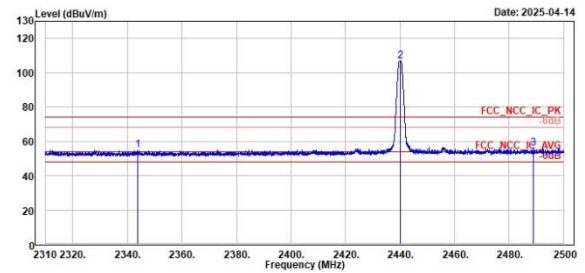


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2312.76	55.42	17.69	37.73	74.00	-18.58	331	360	Peak	Horizontal		
2 *	2440.00	111.88	75.37	38.51	74.00	37.88	331	360	Peak	Horizontal		
3	2487.75	55.99	17.38	38.61	74.00	-18.01	331	360	Peak	Horizontal		

Middle Channel (Vertical) Peak



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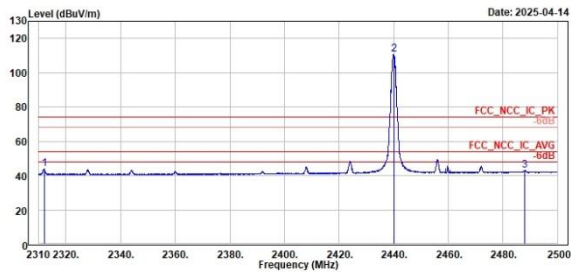
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2343.92	55.09	17.27	37.82	74.00	-18.91	363	256	Peak	Vertical		
2 *	2440.00	106.85	68.34	38.51	74.00	32.85	363	256	Peak	Vertical		
3	2488.79	55.76	17.15	38.61	74.00	-18.24	363	256	Peak	Vertical		

BLE_1M

Middle Channel (Horizontal) Average



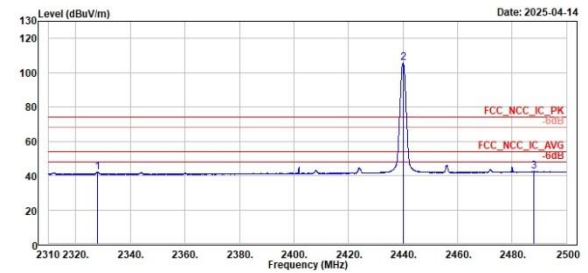
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Middle Channel (Vertical) Average



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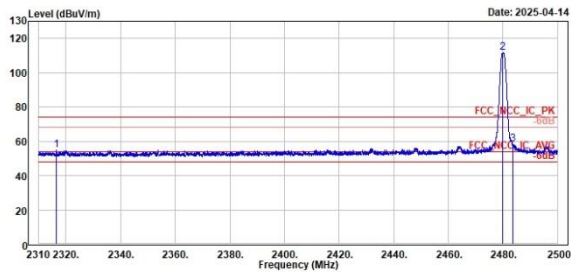


BLE_1M

High Channel (Horizontal) Peak



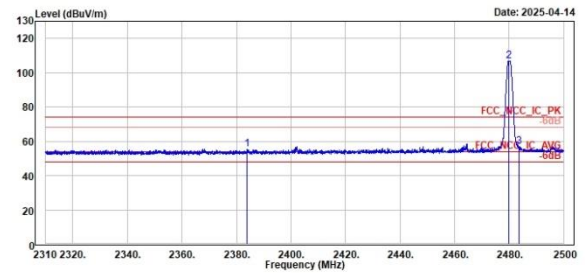
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2316.37	54.79	17.06	37.73	74.00	-19.21	235	359	Peak	Horizontal		
2 *	2480.00	111.48	72.88	38.60	74.00	37.48	235	359	Peak	Horizontal		
3	2483.50	58.43	19.83	38.60	74.00	-15.57	235	359	Peak	Horizontal		



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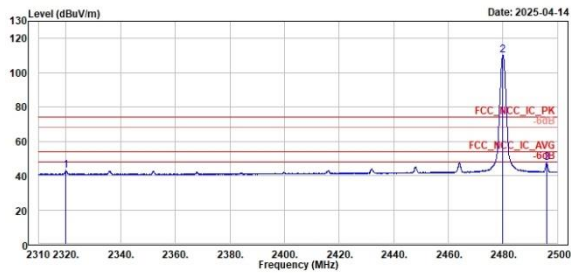
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2383.91	55.30	17.15	38.15	74.00	-18.70	315	260	Peak	Vertical		
2 *	2480.00	106.06	68.26	38.60	74.00	32.06	315	260	Peak	Vertical		
3	2483.71	57.05	18.45	38.60	74.00	-16.95	315	260	Peak	Vertical		

BLE_1M

High Channel (Horizontal) Average



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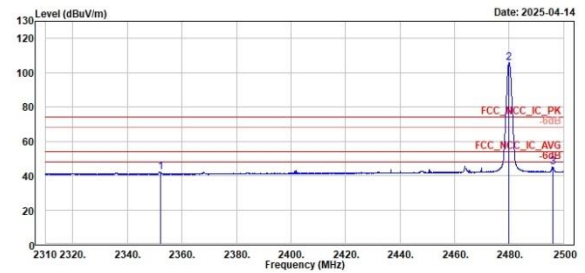


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2319.83	42.88	5.14	37.74	54.00	-11.12	235	359	Average	Horizontal		
2 *	2480.00	110.44	71.84	38.60	54.00	56.44	235	359	Average	Horizontal		
3	2496.01	47.22	8.60	38.62	54.00	-6.78	235	359	Average	Horizontal		

High Channel (Vertical) Average



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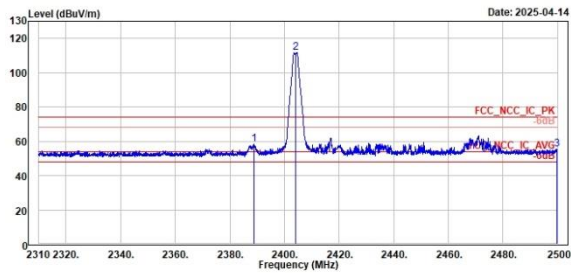
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1	2352.89	42.11	4.25	37.86	54.00	-11.89	315	260	Average	Vertical		
2 *	2480.00	105.87	67.27	38.60	54.00	51.87	315	260	Average	Vertical		
3	2496.06	45.11	6.49	38.62	54.00	-8.89	315	260	Average	Vertical		

BLE_2M

Low Channel (Horizontal) Peak



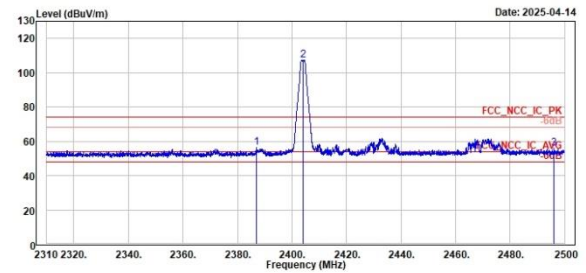
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.90	58.14	19.94	38.20	74.00	-15.86	383	360	Peak	Horizontal		
2 *	2404.00	111.57	73.25	38.32	74.00	37.57	383	360	Peak	Horizontal		
3	2499.76	55.55	16.93	38.62	74.00	-18.45	383	360	Peak	Horizontal		



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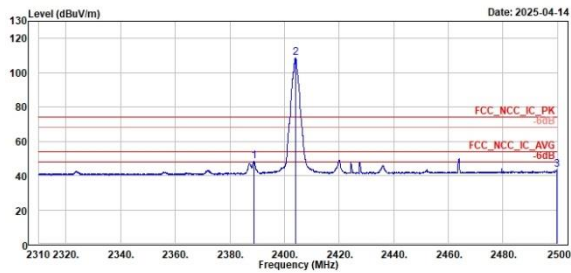
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.90	56.11	17.93	38.18	74.00	-17.89	338	258	Peak	Vertical		
2 *	2404.00	107.42	69.10	38.32	74.00	33.42	338	258	Peak	Vertical		
3	2496.15	55.73	17.11	38.62	74.00	-18.27	338	258	Peak	Vertical		

BLE_2M

Low Channel (Horizontal) Average



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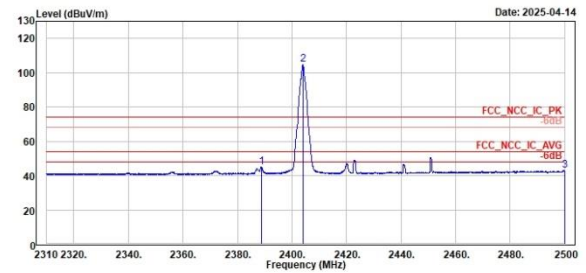


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.90	48.41	10.21	38.20	54.00	-5.59	383	360	Average	Horizontal		
2 *	2404.00	108.74	70.42	38.32	54.00	54.74	383	360	Average	Horizontal		
3	2499.76	43.44	4.82	38.62	54.00	-10.56	383	360	Average	Horizontal		

Low Channel (Vertical) Average



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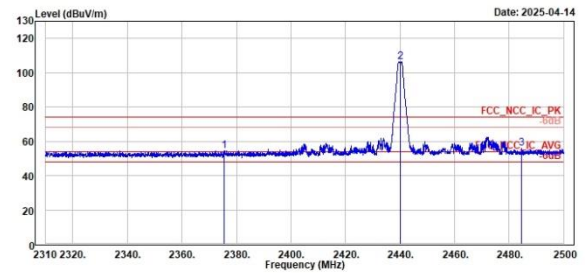
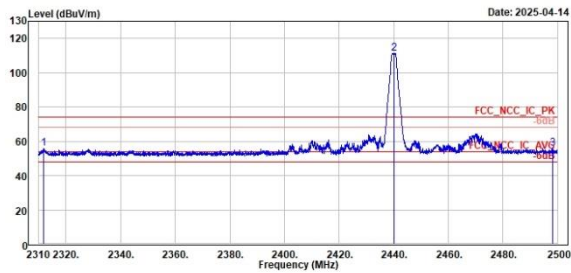


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.71	44.95	6.75	38.20	54.00	-9.05	338	258	Average	Vertical		
2 *	2404.00	104.56	66.24	38.32	54.00	50.56	338	258	Average	Vertical		
3	2500.00	43.18	4.56	38.62	54.00	-10.82	338	258	Average	Vertical		

BLE_2M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



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	2311.05	55.75	18.04	37.71	74.00	-18.25	374	360	Peak	Horizontal	
2 *	2440.00	111.42	72.91	38.51	74.00	37.42	374	360	Peak	Horizontal	
3	2498.24	55.97	17.35	38.62	74.00	-18.03	374	360	Peak	Horizontal	

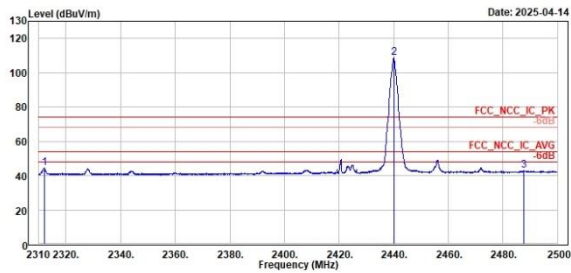
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2375.60	54.61	16.54	38.07	74.00	-19.39	292	284	Peak	Vertical	
2 *	2440.00	106.29	67.78	38.51	74.00	32.29	292	284	Peak	Vertical	
3	2484.56	55.92	17.32	38.60	74.00	-18.08	292	284	Peak	Vertical	

BLE_2M

Middle Channel (Horizontal) Average



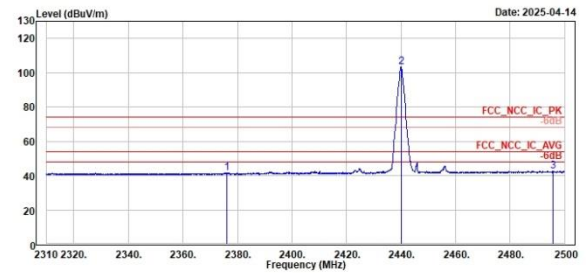
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Middle Channel (Vertical) Average



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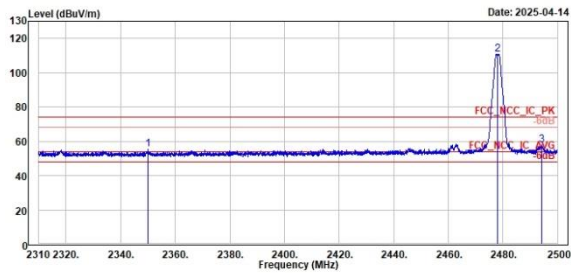


BLE_2M

High Channel (Horizontal) Peak



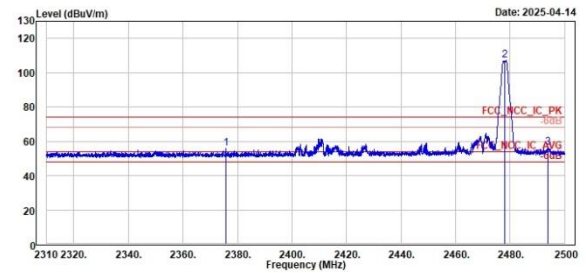
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2349.95	55.16	17.32	37.84	74.00	-18.84	264			0 Peak	Horizontal	
2 *	2478.00	118.71	72.12	38.59	74.00	36.71	264			0 Peak	Horizontal	
3	2494.21	57.71	19.10	38.61	74.00	-16.29	264			0 Peak	Horizontal	



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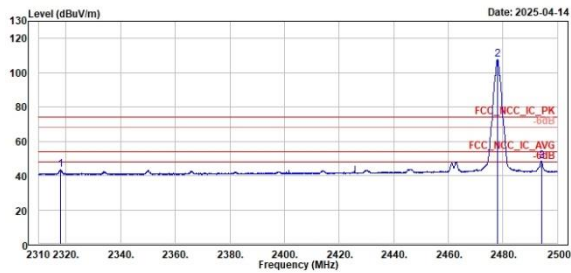
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2375.84	55.71	17.63	38.08	74.00	-18.29	397			252 Peak	Vertical	
2 *	2478.00	107.04	68.45	38.59	74.00	33.04	397			252 Peak	Vertical	
3	2493.92	56.26	17.65	38.61	74.00	-17.74	397			252 Peak	Vertical	

BLE_2M

High Channel (Horizontal) Average



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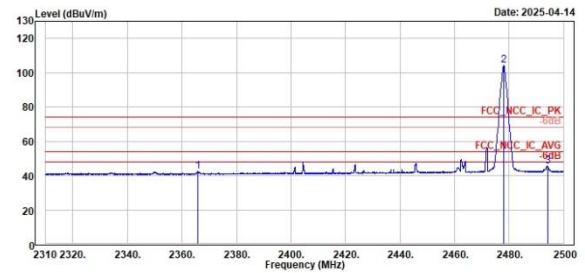


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2318.03	43.40	5.66	37.74	54.00	-10.60	264	0	Average	Horizontal		
2 *	2478.00	107.95	69.36	38.59	54.00	53.95	264	0	Average	Horizontal		
3 †	2494.06	48.23	9.62	38.61	54.00	-5.77	264	0	Average	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	cm	deg				
1	2365.96	42.53	4.54	37.99	54.00	-11.47	397	252	Average	Vertical		
2 *	2478.00	104.30	65.71	38.59	54.00	50.30	397	252	Average	Vertical		
3	2494.06	45.52	6.91	38.61	54.00	-8.48	397	252	Average	Vertical		

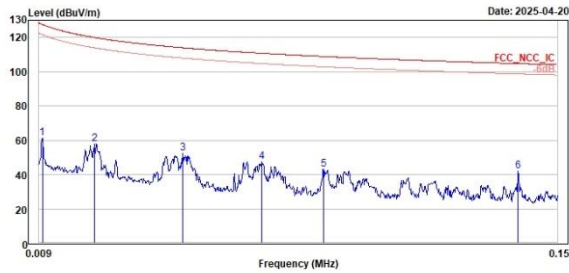
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

Low Channel (Open) 9kHz~150kHz



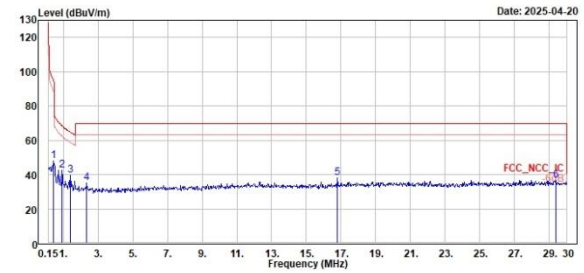
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	61.24	43.13	18.11	127.60	-66.36	100	242 Peak	Open	
2	0.02	58.06	38.34	19.72	119.90	-61.84	100	239 Peak	Open	
3	0.05	52.53	33.51	19.02	113.93	-61.40	100	239 Peak	Open	
4	0.07	47.65	29.15	18.50	110.74	-63.09	100	264 Peak	Open	
5	0.09	43.23	25.14	18.09	108.86	-65.63	100	313 Peak	Open	
6	0.14	42.11	23.84	18.27	104.72	-62.61	100	224 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	0.45	48.14	29.44	18.70	94.57	-46.43	100	218 Peak	Open	
2	0.93	42.60	23.75	18.85	68.27	-25.67	100	218 Peak	Open	
3	1.40	39.69	20.88	18.81	64.66	-24.97	100	218 Peak	Open	
4	2.36	35.30	16.41	18.89	69.50	-34.20	100	218 Peak	Open	
5	16.81	37.82	15.58	22.24	69.50	-31.68	100	101 Peak	Open	
6	29.37	36.52	13.28	23.24	69.50	-32.98	100	152 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

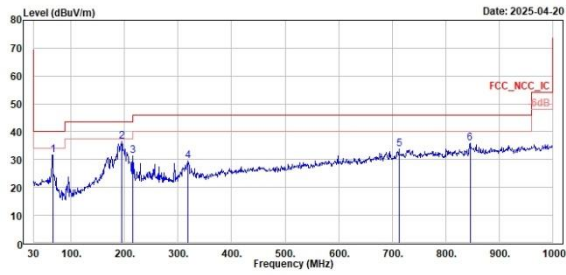
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



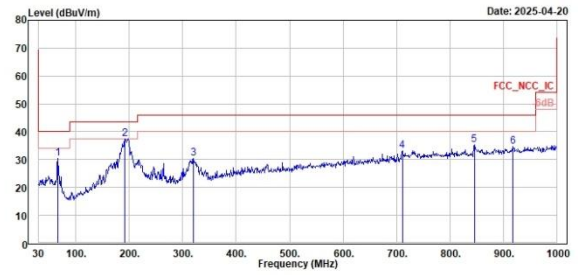
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	65.89	31.66	39.23	-7.57	40.00	-8.34	400	84 Peak	Horizontal	
2	194.90	36.58	44.69	-8.11	43.50	-6.92	100	182 Peak	Horizontal	
3	215.27	31.20	39.50	-8.30	43.50	-12.30	100	299 Peak	Horizontal	
4	319.06	29.55	34.28	-4.73	46.00	-16.45	100	173 Peak	Horizontal	
5	712.88	33.87	31.47	2.40	46.00	-12.13	100	221 Peak	Horizontal	
6	845.77	35.99	31.90	4.09	46.00	-10.01	300	111 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	65.89	30.39	37.96	-7.57	40.00	-9.61	300	10 Peak	Vertical	
2	191.02	37.50	45.45	-7.95	43.50	-6.00	100	258 Peak	Vertical	
3	320.03	30.33	35.02	-4.69	46.00	-15.67	100	223 Peak	Vertical	
4	710.94	33.22	30.86	2.36	46.00	-12.78	300	71 Peak	Vertical	
5	845.77	35.16	31.07	4.09	46.00	-10.84	200	192 Peak	Vertical	
6	917.55	34.76	29.57	5.19	46.00	-11.24	253	0 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

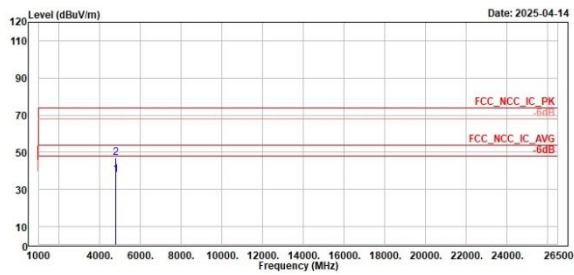
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



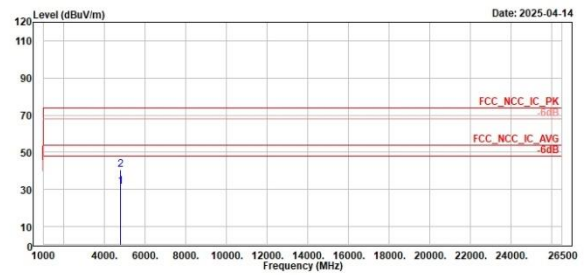
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level	Line	Limit	dB	cm	deg		
1	4804.00	37.79	46.87	-9.08	54.00	-16.21	328	18 Average	Horizontal	
2	4804.00	46.86	55.94	-9.08	74.00	-27.14	328	18 Peak	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level	Line	Limit	dB	cm	deg		
1	4804.00	31.51	48.59	-9.08	54.00	-22.49	382	360 Average	Vertical	
2	4804.00	40.62	49.78	-9.08	74.00	-33.38	382	360 Peak	Vertical	

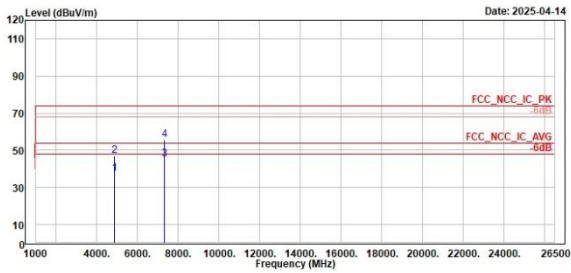
BLE_1M

Middle Channel (Horizontal)

Middle Channel (Vertical)



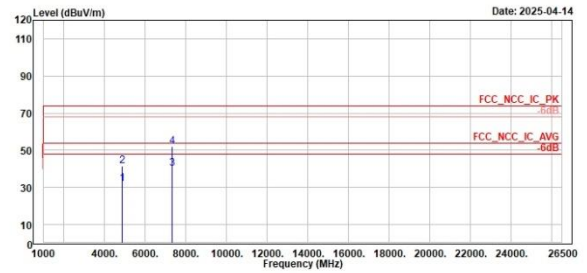
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4880.00	37.20	46.07	-8.87	54.00	-16.80	247	25	Average	Horizontal	
2	4880.00	46.79	55.66	-8.87	74.00	-27.21	247	25	Peak	Horizontal	
3	7320.00	45.05	51.72	-6.67	54.00	-8.95	100	306	Average	Horizontal	
4	7320.00	55.81	62.48	-6.67	74.00	-18.19	100	306	Peak	Horizontal	



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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4880.00	31.96	40.83	-8.87	54.00	-22.04	300	86	Average	Vertical	
2	4880.00	41.59	50.46	-8.87	74.00	-32.41	300	86	Peak	Vertical	
3	7320.00	40.36	47.03	-6.67	54.00	-13.64	100	208	Average	Vertical	
4	7320.00	51.89	58.56	-6.67	74.00	-22.11	100	208	Peak	Vertical	

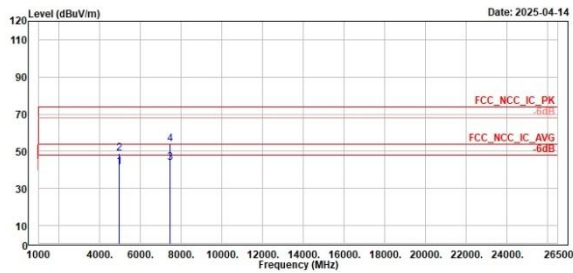
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



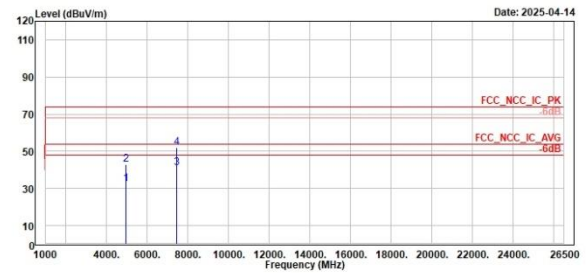
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	41.33	58.02	-8.69	54.00	-12.67	281	0	Average	Horizontal		
2	4960.00	48.92	57.61	-8.69	74.00	-25.08	281	0	Peak	Horizontal		
3	7440.00	43.62	58.36	-6.74	54.00	-10.38	102	305	Average	Horizontal		
4	7440.00	53.79	60.53	-6.74	74.00	-20.21	102	305	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	4960.00	32.52	41.21	-8.69	54.00	-21.48	300	182	Average	Vertical		
2	4960.00	42.90	51.59	-8.69	74.00	-31.10	300	182	Peak	Vertical		
3	7440.00	41.11	47.85	-6.74	54.00	-12.89	100	301	Average	Vertical		
4	7440.00	51.90	58.64	-6.74	74.00	-22.10	100	301	Peak	Vertical		

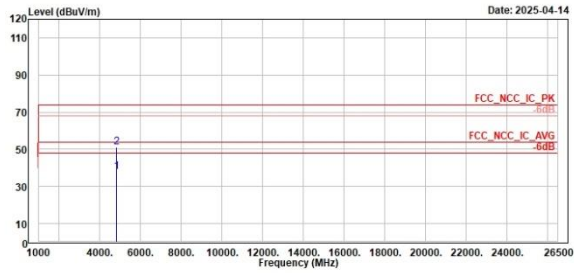
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



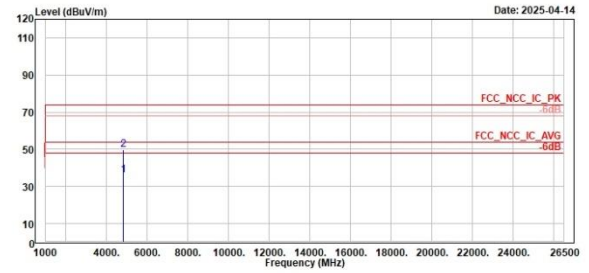
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	37.72	46.79	-9.07	54.00	-16.28	400	330	Average	Horizontal		
2	4880.00	51.21	60.28	-9.07	74.00	-22.79	400	330	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	35.98	45.05	-9.07	54.00	-18.02	400	272	Average	Vertical		
2	4880.00	49.85	58.92	-9.07	74.00	-24.15	400	272	Peak	Vertical		

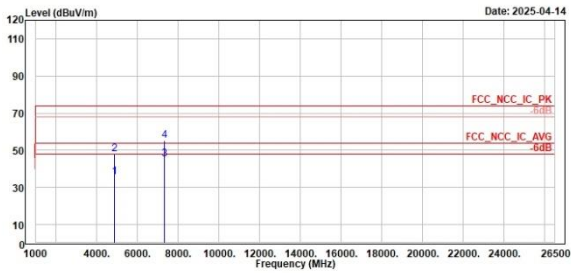
BLE_2M

Middle Channel (Horizontal)

Middle Channel (Vertical)



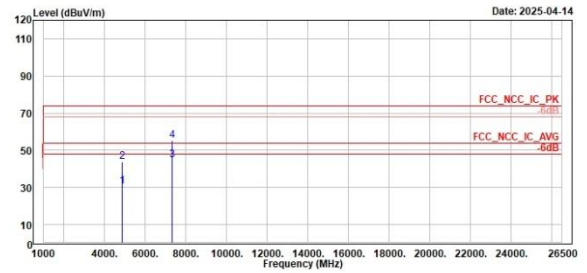
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4880.00	35.67	44.54	-8.87	54.00	-18.33	290	163	Average	Horizontal	
2	4880.00	47.77	56.64	-8.87	74.00	-26.23	290	163	Peak	Horizontal	
3	7320.00	45.32	51.99	-6.67	54.00	-8.68	100	305	Average	Horizontal	
4	7320.00	55.00	61.67	-6.67	74.00	-19.00	100	305	Peak	Horizontal	



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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4880.00	30.79	39.66	-8.87	54.00	-23.21	400	225	Average	Vertical	
2	4880.00	43.76	52.63	-8.87	74.00	-30.24	400	225	Peak	Vertical	
3	7320.00	44.71	51.38	-6.67	54.00	-9.29	300	270	Average	Vertical	
4	7320.00	55.25	61.92	-6.67	74.00	-18.75	300	270	Peak	Vertical	

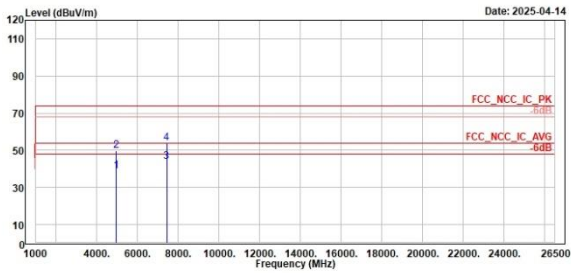
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



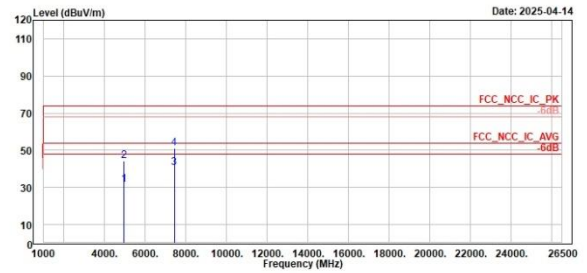
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level	Line	Limit	cm	deg			
1	4956.00	38.68	47.26	-8.66	54.00	-15.48	280	167 Average	Horizontal	
2	4956.00	49.52	58.18	-8.66	74.00	-24.48	280	167 Peak	Horizontal	
3	7434.00	43.79	50.53	-6.74	54.00	-10.21	100	300 Average	Horizontal	
4	7434.00	53.66	60.40	-6.74	74.00	-20.34	100	300 Peak	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level	Line	Limit	cm	deg			
1	4956.00	31.29	39.85	-8.66	54.00	-22.71	180	360 Average	Vertical	
2	4956.00	44.19	52.85	-8.66	74.00	-29.61	180	360 Peak	Vertical	
3	7434.00	40.72	47.46	-6.74	54.00	-13.28	104	300 Average	Vertical	
4	7434.00	51.23	57.97	-6.74	74.00	-22.77	104	300 Peak	Vertical	

Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

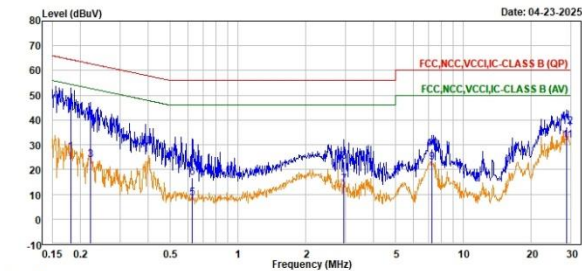
Worst Band

(Line)

(Neutral)



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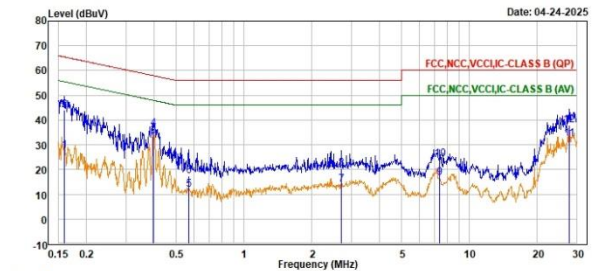


Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.18	26.82	17.19	9.63	54.47	-27.65	Average	line1	
2	0.18	44.32	34.69	9.63	64.47	-20.15	QP	line1	
3	0.22	23.88	14.25	9.63	52.77	-28.89	Average	line1	
4	0.22	39.16	29.53	9.63	62.77	-23.61	QP	line1	
5	0.63	8.44	-1.19	9.63	46.00	-37.56	Average	line1	
6	0.63	16.67	7.04	9.63	56.00	-39.33	QP	line1	
7	2.95	13.85	4.17	9.68	46.00	-32.15	Average	line1	
8	2.95	23.22	13.54	9.68	56.00	-32.78	QP	line1	
9	7.28	23.81	13.29	9.72	50.00	-26.99	Average	line1	
10	7.28	28.43	18.71	9.72	60.00	-31.57	QP	line1	
11	28.83	31.88	22.12	9.68	50.00	-18.20	Average	line1	
12	28.83	37.20	27.52	9.68	60.00	-22.00	QP	line1	



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Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	27.65	18.01	9.64	55.54	-27.89	Average	neutral	
2	0.16	43.99	34.35	9.64	65.54	-21.55	QP	neutral	
3	0.40	33.36	23.73	9.63	47.93	-14.57	Average	neutral	
4	0.40	36.53	26.90	9.63	57.93	-21.40	QP	neutral	
5	0.57	11.95	2.32	9.63	46.00	-34.05	Average	neutral	
6	0.57	17.33	7.70	9.63	56.00	-38.67	QP	neutral	
7	2.70	13.79	4.12	9.67	46.00	-32.21	Average	neutral	
8	2.70	20.32	10.65	9.67	56.00	-35.68	QP	neutral	
9	7.39	16.70	6.96	9.74	50.00	-33.30	Average	neutral	
10	7.39	24.31	14.57	9.74	60.00	-35.69	QP	neutral	
11	27.70	32.43	22.58	9.85	50.00	-17.57	Average	neutral	
12	27.70	37.97	28.12	9.85	60.00	-22.03	QP	neutral	

ANT 6, 2nd Source, ECC, PIC32WM-BZ6204UC
Band Edges, 2.31GHz ~ 2.5GHz

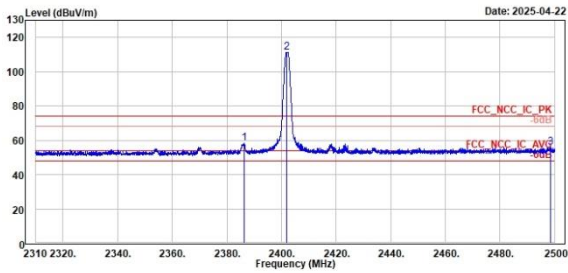
BLE_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



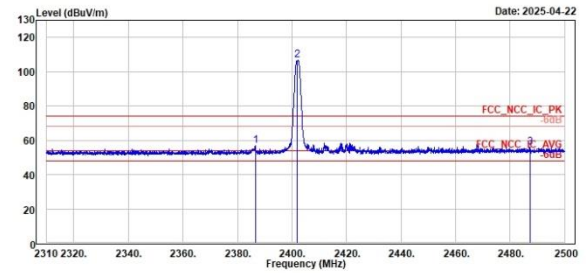
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2386.38	58.25	20.20	38.05	74.00	-15.75	348	357 Peak	Horizontal	
2 *	2402.00	111.19	73.00	38.19	74.00	37.19	348	357 Peak	Horizontal	
3	2498.43	55.72	17.23	38.49	74.00	-18.28	348	357 Peak	Horizontal	



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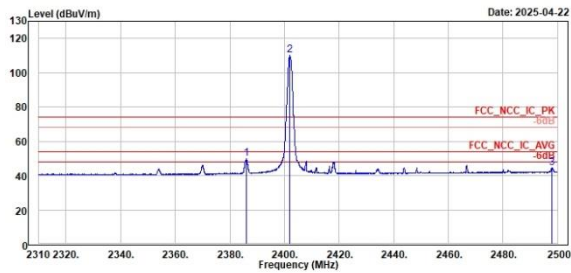
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2386.62	56.65	18.60	38.05	74.00	-17.35	377	72 Peak	Vertical	
2 *	2402.00	106.52	68.33	38.19	74.00	32.52	377	72 Peak	Vertical	
3	2487.32	56.03	17.55	38.48	74.00	-17.97	377	72 Peak	Vertical	

BLE_1M

Low Channel (Horizontal) Average



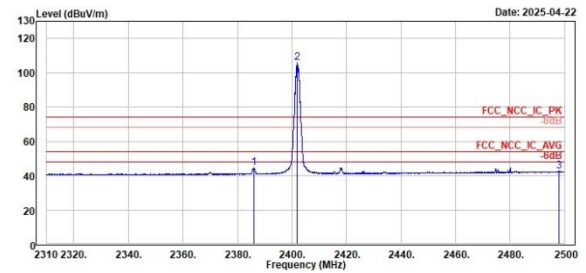
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Low Channel (Vertical) Average



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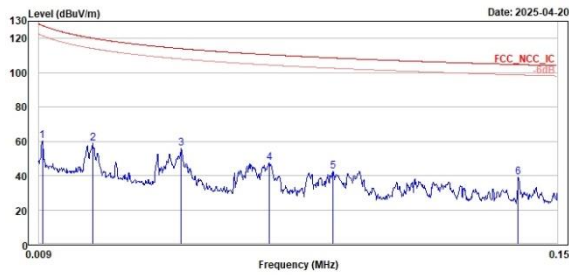
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

Low Channel (Open) 9kHz~150kHz



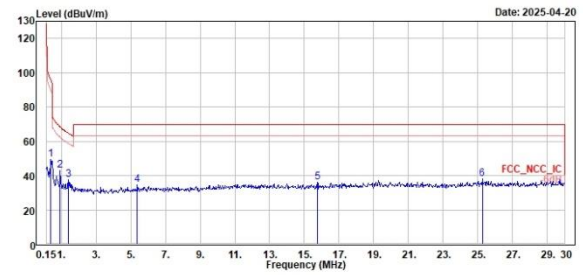
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	60.19	42.00	18.11	127.60	-67.41	100	119	Peak	Open		
2	0.02	58.59	38.90	19.69	120.11	-61.52	100	204	Peak	Open		
3	0.05	55.66	36.64	19.02	114.01	-58.35	100	268	Peak	Open		
4	0.07	47.26	28.79	18.47	110.50	-63.24	100	268	Peak	Open		
5	0.09	42.68	24.64	18.04	108.61	-65.93	100	282	Peak	Open		
6	0.14	39.05	20.78	18.27	104.72	-65.67	100	222	Peak	Open		



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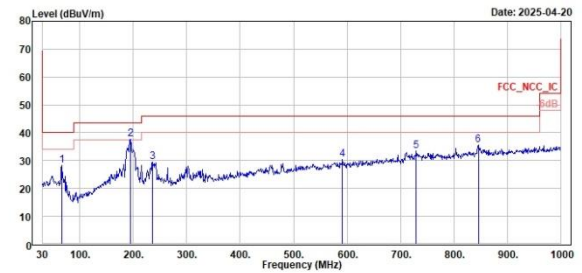
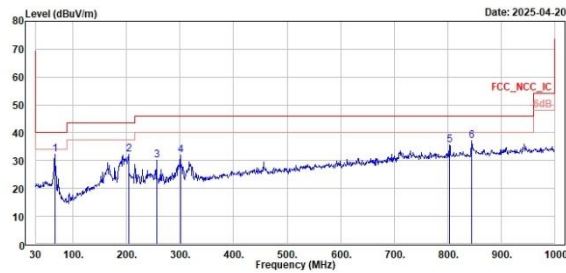
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.39	49.36	30.72	18.64	95.81	-46.45	100	217	Peak	Open		
2	0.93	42.89	24.04	18.85	68.27	-25.38	100	298	Peak	Open		
3	1.40	37.70	18.89	18.81	64.66	-26.96	100	298	Peak	Open		
4	5.37	34.61	14.56	20.05	69.50	-34.89	100	209	Peak	Open		
5	15.76	36.02	14.19	21.83	69.50	-33.48	100	47	Peak	Open		
6	25.25	38.15	14.97	23.18	69.50	-31.35	100	117	Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



	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	65.89	32.39	39.96	-7.57	40.00	-7.61	300	177 Peak		Horizontal		
2	203.63	32.39	40.56	-8.17	43.50	-11.11	200	256 Peak		Horizontal		
3	256.01	30.05	36.56	-6.51	46.00	-15.95	100	317 Peak		Horizontal		
4	300.63	31.87	37.22	-5.35	46.00	-14.13	100	191 Peak		Horizontal		
5	803.09	35.46	31.73	3.73	46.00	-10.54	100	236 Peak		Horizontal		
6	844.00	37.21	33.14	4.07	46.00	-8.79	100	339 Peak		Horizontal		

	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	65.89	28.41	35.08	-7.57	40.00	-11.59	300	79 Peak		Vertical		
2	193.93	37.57	45.68	-8.11	43.50	-5.93	100	231 Peak		Vertical		
3	236.61	29.43	36.27	-6.84	46.00	-16.57	200	36 Peak		Vertical		
4	591.63	30.44	30.03	0.41	46.00	-15.56	100	202 Peak		Vertical		
5	729.37	33.48	30.70	2.78	46.00	-12.52	300	255 Peak		Vertical		
6	845.77	35.73	31.64	4.09	46.00	-10.27	300	81 Peak		Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

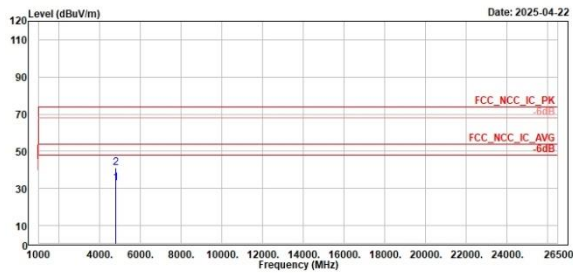
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



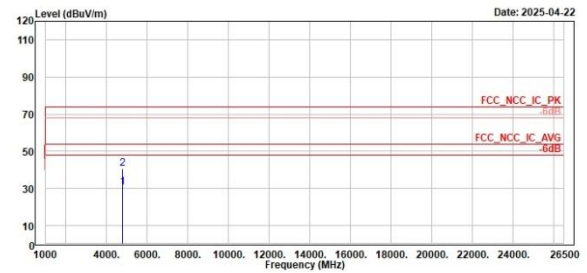
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	32.72	41.93	-9.21	54.00	-21.28	300	16	Average	Horizontal	
2	4894.00	41.23	50.44	-9.21	74.00	-32.77	300	16	Peak	Horizontal	



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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	4894.00	30.56	39.77	-9.21	54.00	-23.44	100	8	Average	Vertical	
2	4894.00	40.82	50.03	-9.21	74.00	-33.18	100	8	Peak	Vertical	

Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

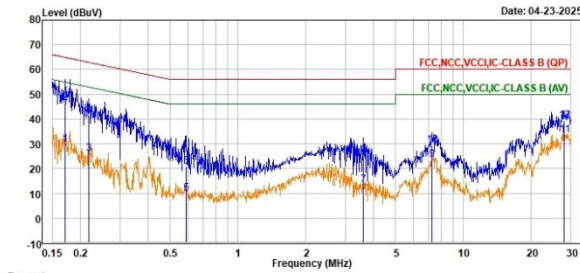
Worst Band

(Line)

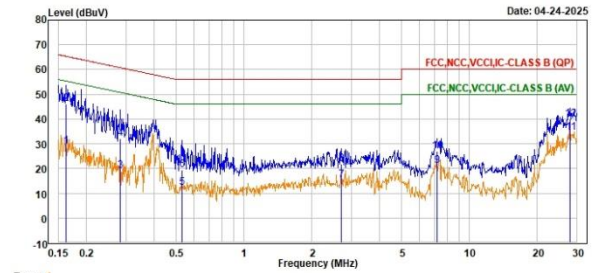
(Neutral)



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ANT 6, Main Source, Non-ECC, PIC32WM-BZ6204UE
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

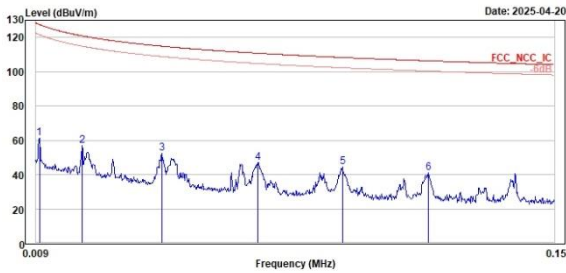
BLE_2M

Low Channel (Open) 9kHz~150kHz

Low Channel (Open) 150kHz~30MHz



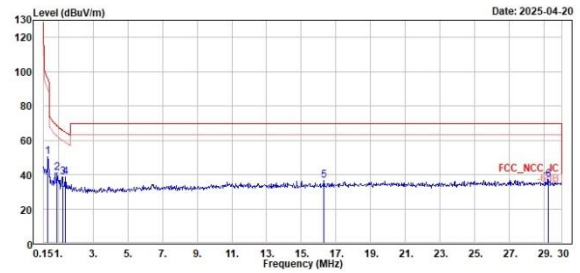
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	61.10	42.99	18.11	127.60	-66.50	100	339 Peak	Open	
2	0.02	56.87	37.28	19.59	120.86	-63.99	100	276 Peak	Open	
3	0.04	52.57	33.56	19.01	114.87	-62.30	100	276 Peak	Open	
4	0.07	47.04	28.56	18.48	110.77	-63.73	100	275 Peak	Open	
5	0.09	44.42	26.40	18.02	108.29	-63.87	100	284 Peak	Open	
6	0.12	40.94	22.82	18.12	106.34	-65.40	100	243 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	0.39	50.66	32.02	18.64	95.81	-45.15	100	228 Peak	Open	
2	0.93	41.00	22.15	18.85	68.27	-27.27	100	337 Peak	Open	
3	1.25	38.78	19.98	18.80	65.64	-26.86	100	228 Peak	Open	
4	1.40	38.32	19.51	18.81	64.66	-26.34	100	337 Peak	Open	
5	16.30	36.52	14.49	22.03	69.50	-32.98	100	225 Peak	Open	
6	29.22	37.03	13.79	23.24	69.50	-32.47	100	206 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

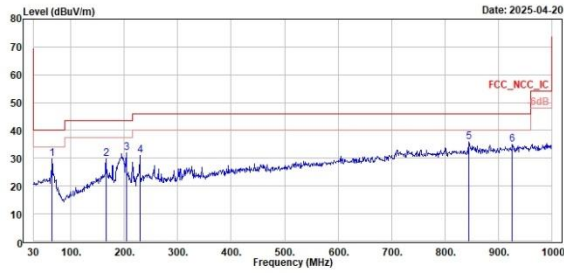
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



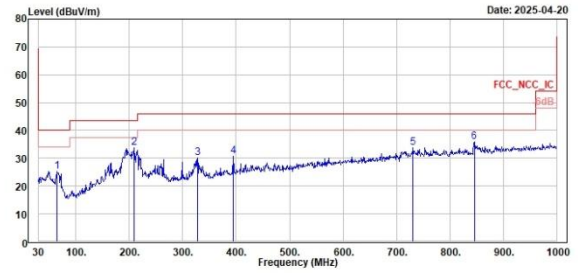
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	64.92	29.87	37.07	-7.20	40.00	-10.13	200	349	Peak	Horizontal		
2	165.80	29.86	35.58	-5.72	43.50	-13.64	100	323	Peak	Horizontal		
3	203.63	31.88	40.05	-8.17	43.50	-11.62	200	264	Peak	Horizontal		
4	228.85	30.89	38.30	-7.41	46.00	-15.11	100	291	Peak	Horizontal		
5	844.80	35.96	31.89	4.07	46.00	-10.04	100	27	Peak	Horizontal		
6	926.28	34.90	29.71	5.19	46.00	-11.10	100	133	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	25.38	32.42	-7.04	40.00	-14.62	300	42	Peak	Vertical		
2	209.45	33.70	42.06	-8.36	43.50	-9.80	100	223	Peak	Vertical		
3	327.79	30.10	34.74	-4.64	46.00	-15.90	200	301	Peak	Vertical		
4	393.75	30.73	34.05	-3.32	46.00	-15.27	100	230	Peak	Vertical		
5	731.31	33.88	31.09	2.79	46.00	-12.12	200	360	Peak	Vertical		
6	845.77	35.99	31.90	4.09	46.00	-10.01	100	262	Peak	Vertical		

Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

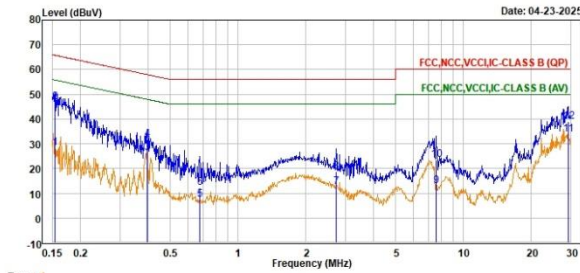
Worst Band

(Line)

(Neutral)



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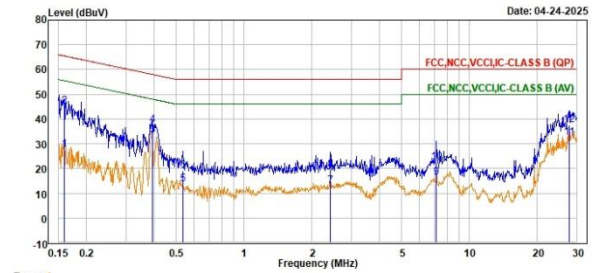


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.15	28.26	18.63	9.63	55.79	-27.53 Average	line1
2	0.15	46.88	37.25	9.63	65.79	-18.91 QP	line1
3	0.40	26.34	16.71	9.63	47.93	-21.59 Average	line1
4	0.40	31.62	21.99	9.63	57.93	-26.31 QP	line1
5	0.68	7.48	-2.15	9.63	46.00	-38.52 Average	line1
6	0.68	12.18	2.55	9.63	56.00	-43.82 QP	line1
7	2.73	12.61	2.95	9.66	46.00	-33.39 Average	line1
8	2.73	18.80	9.14	9.66	56.00	-37.20 QP	line1
9	7.58	12.87	3.14	9.73	50.00	-37.13 Average	line1
10	7.58	23.67	13.94	9.73	60.00	-36.33 QP	line1
11	29.26	33.67	23.99	9.68	50.00	-16.33 Average	line1
12	29.26	39.01	29.33	9.68	60.00	-20.99 QP	line1



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Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.16	27.63	17.99	9.64	55.54	-27.91 Average	neutral
2	0.16	45.16	35.52	9.64	65.54	-20.38 QP	neutral
3	0.39	33.46	23.83	9.63	48.05	-14.59 Average	neutral
4	0.39	37.70	28.07	9.63	58.05	-20.35 QP	neutral
5	0.53	13.71	4.08	9.63	46.00	-32.29 Average	neutral
6	0.53	19.16	9.53	9.63	56.00	-36.84 QP	neutral
7	2.41	13.06	3.39	9.67	46.00	-32.94 Average	neutral
8	2.41	19.32	9.65	9.67	56.00	-36.68 QP	neutral
9	7.14	16.30	6.56	9.74	50.00	-33.70 Average	neutral
10	7.14	22.48	12.74	9.74	60.00	-37.52 QP	neutral
11	27.70	32.31	22.46	9.85	50.00	-17.69 Average	neutral
12	27.70	37.64	27.79	9.85	60.00	-22.36 QP	neutral

ANT 6, 2nd Souce, Non-ECC, PIC32WM-BZ6204UE
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

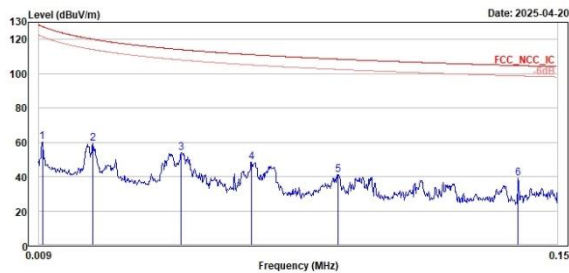
BLE_2M

Low Channel (Open) 9kHz~150kHz

Low Channel (Open) 150kHz~30MHz



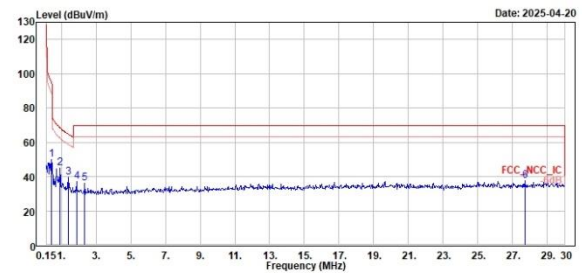
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	60.34	42.23	18.11	127.60	-67.26	100	173 Peak	Open	
2	0.02	59.43	39.74	19.69	120.11	-60.68	100	296 Peak	Open	
3	0.05	53.82	34.80	19.02	114.01	-60.19	100	279 Peak	Open	
4	0.07	48.21	29.88	18.33	111.10	-62.89	100	263 Peak	Open	
5	0.09	41.25	23.23	18.02	108.48	-67.23	100	256 Peak	Open	
6	0.14	39.88	20.81	18.27	104.72	-65.64	100	207 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	0.45	49.75	31.05	18.70	94.57	-44.82	100	213 Peak	Open	
2	0.93	44.98	26.13	18.85	68.27	-23.29	100	213 Peak	Open	
3	1.40	39.50	20.69	18.81	64.66	-25.16	100	159 Peak	Open	
4	1.88	36.91	18.08	18.83	69.50	-32.59	100	213 Peak	Open	
5	2.36	35.88	16.99	18.89	69.50	-33.62	100	213 Peak	Open	
6	27.70	37.38	14.35	23.03	69.50	-32.12	100	350 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

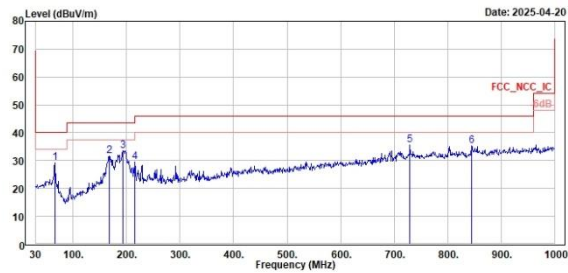
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



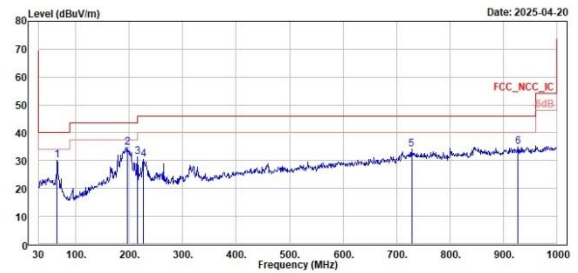
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	65.89	29.19	36.76	-7.57	40.00	-10.81	200	182	Peak	Horizontal		
2	167.74	31.53	37.41	-5.88	43.50	-11.97	200	360	Peak	Horizontal		
3	192.96	33.51	41.54	-8.03	43.50	-9.99	107	360	Peak	Horizontal		
4	215.27	29.59	37.89	-8.30	43.50	-13.91	200	272	Peak	Horizontal		
5	729.37	35.45	32.67	2.78	46.00	-10.55	300	214	Peak	Horizontal		
6	844.00	35.40	31.33	4.07	46.00	-10.60	300	241	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	64.92	30.17	37.37	-7.20	40.00	-9.83	300	246	Peak	Vertical		
2	195.87	34.59	42.78	-8.19	43.50	-8.91	200	201	Peak	Vertical		
3	215.27	31.33	39.63	-8.30	43.50	-12.17	200	214	Peak	Vertical		
4	226.91	30.42	38.09	-7.67	46.00	-15.58	100	360	Peak	Vertical		
5	728.40	34.18	31.40	2.78	46.00	-11.62	300	4	Peak	Vertical		
6	927.25	34.95	29.75	5.20	46.00	-11.05	100	325	Peak	Vertical		

Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

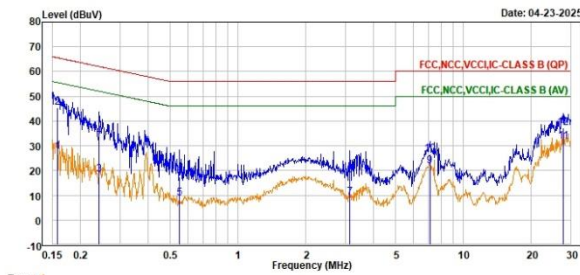
Worst Band

(Line)

(Neutral)



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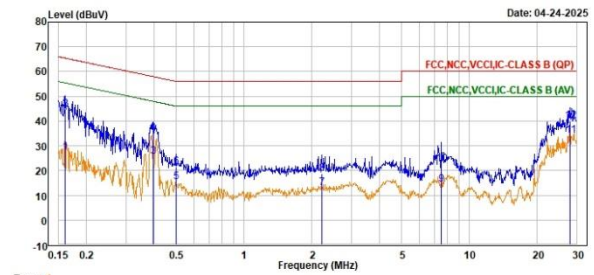


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.16	27.79	18.16	9.63	55.59	-27.80 Average	line1
2	0.16	45.45	35.82	9.63	65.59	-20.14 QP	line1
3	0.24	18.37	8.74	9.63	52.03	-33.66 Average	line1
4	0.24	33.90	24.27	9.63	62.03	-28.13 QP	line1
5	0.55	8.84	-0.79	9.63	46.00	-37.16 Average	line1
6	0.55	17.30	7.67	9.63	56.00	-38.70 QP	line1
7	3.14	9.33	-0.35	9.68	46.00	-36.67 Average	line1
8	3.14	18.23	8.55	9.68	56.00	-37.77 QP	line1
9	7.10	21.96	12.24	9.72	50.00	-28.04 Average	line1
10	7.10	26.73	17.01	9.72	60.00	-33.27 QP	line1
11	27.70	31.91	22.22	9.69	50.00	-18.09 Average	line1
12	27.70	37.25	27.56	9.69	60.00	-22.75 QP	line1



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Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.16	27.27	17.63	9.64	55.46	-28.19 Average	neutral
2	0.16	44.86	35.22	9.64	65.46	-20.60 QP	neutral
3	0.39	25.48	15.85	9.63	47.97	-22.49 Average	neutral
4	0.39	34.75	25.12	9.63	57.97	-23.22 QP	neutral
5	0.50	15.17	5.54	9.63	46.02	-30.85 Average	neutral
6	0.50	21.35	11.72	9.63	56.02	-34.67 QP	neutral
7	2.21	13.07	3.41	9.66	46.00	-32.93 Average	neutral
8	2.21	18.74	9.00	9.66	56.00	-37.26 QP	neutral
9	7.54	14.34	4.59	9.75	50.00	-35.66 Average	neutral
10	7.54	22.53	12.78	9.75	60.00	-37.47 QP	neutral
11	28.12	34.27	24.42	9.85	50.00	-15.73 Average	neutral
12	28.12	39.96	30.11	9.85	60.00	-20.04 QP	neutral