

Appendix A: Test Results of Radiated Spurious Emissions_BLE

Band Edges, 2.31GHz ~ 2.9GHz

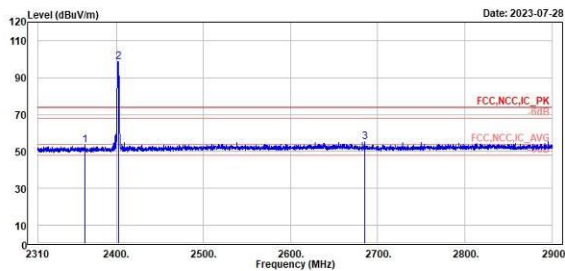
BLE_125K

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



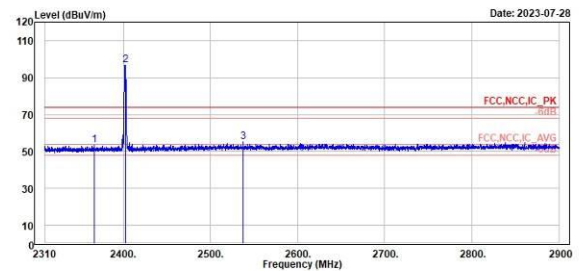
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2363.45	53.31	15.87	37.44	74.00	-20.69	242	148	Peak	Horizontal		
2 *	2402.00	98.45	68.82	37.63	74.00	24.45	242	148	Peak	Horizontal		
3	2684.89	55.18	17.25	37.93	74.00	-18.82	242	148	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	2366.88	53.32	15.86	37.46	74.00	-20.68	125	191	Peak	Vertical		
2 *	2402.00	96.08	58.97	37.63	74.00	22.68	125	191	Peak	Vertical		
3	2537.62	54.99	17.10	37.89	74.00	-19.01	125	191	Peak	Vertical		

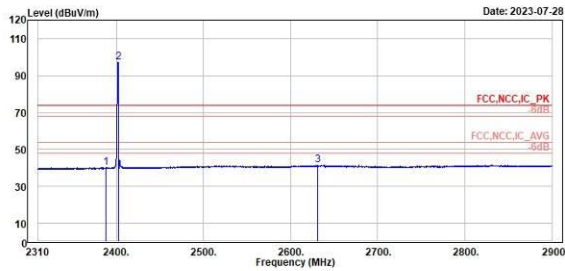
BLE_125K

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



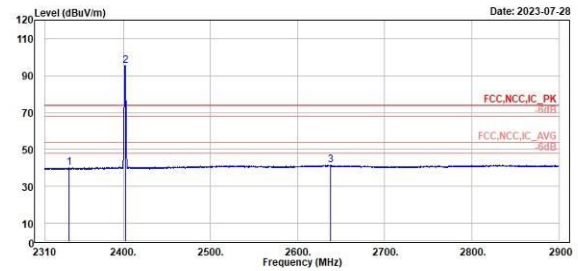
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.76	40.27	2.70	37.57	54.00	-13.73	242	148	Average	Horizontal		
2 *	2402.00	97.32	59.69	37.63	54.00	43.32	242	148	Average	Horizontal		
3	2631.43	41.52	3.51	38.01	54.00	-12.48	242	148	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	2338.08	40.36	3.02	37.34	54.00	-13.64	125	191	Average	Vertical		
2 *	2402.00	95.48	57.85	37.63	54.00	41.48	125	191	Average	Vertical		
3	2637.92	41.61	3.60	38.01	54.00	-12.39	125	191	Average	Vertical		

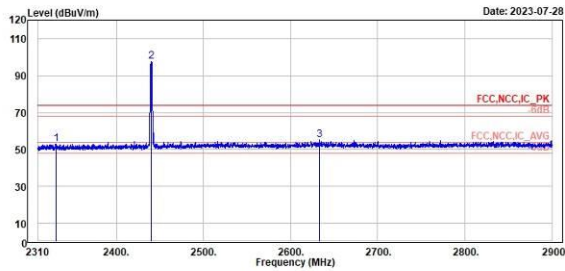
BLE_125K

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



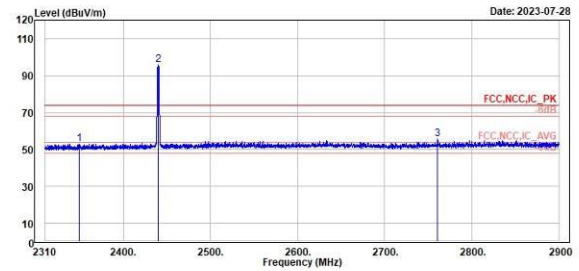
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2331.00	53.01	15.70	37.31	74.00	-20.99	303	149	Peak	Horizontal		
2 *	2440.00	97.76	60.08	37.68	74.00	23.76	303	149	Peak	Horizontal		
3	2633.00	55.18	17.17	38.01	74.00	-18.82	303	149	Peak	Horizontal		



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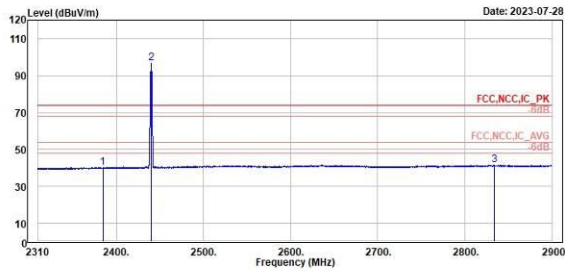
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2349.53	53.03	15.66	37.37	74.00	-20.97	123	190	Peak	Vertical		
2 *	2440.00	95.63	57.95	37.68	74.00	21.63	123	190	Peak	Vertical		
3	2760.76	55.50	17.34	38.16	74.00	-18.50	123	190	Peak	Vertical		

BLE_125K

Middle Channel (Horizontal) Average



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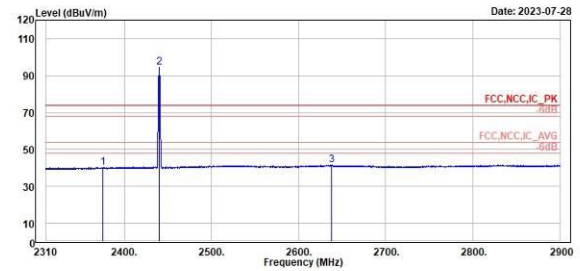


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2384.58	49.08	2.53	37.55	54.00	-13.92	303	149	Average	Horizontal		
2 *	2440.00	96.61	56.93	37.68	54.00	42.61	303	149	Average	Horizontal		
3	2833.68	41.68	3.51	38.17	54.00	-12.32	303	149	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	cm	deg				
1	2375.73	40.32	2.82	37.50	54.00	-13.68	123	190	Average	Vertical		
2 *	2440.00	94.50	56.82	37.68	54.00	40.50	123	190	Average	Vertical		
3	2638.04	41.58	3.57	38.01	54.00	-12.42	123	190	Average	Vertical		

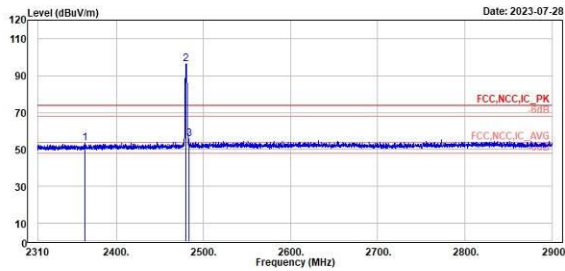
BLE_125K

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



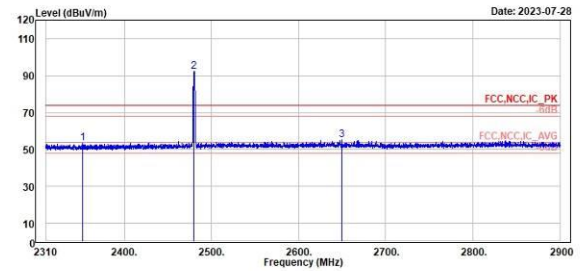
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2364.28	53.28	15.83	37.45	74.00	-20.72	325	148	Peak	Horizontal		
2 *	2489.00	96.49	58.79	37.79	74.00	22.49	325	148	Peak	Horizontal		
3	2483.58	55.67	17.87	37.80	74.00	-18.33	325	148	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	2352.48	53.42	16.03	37.39	74.00	-20.58	100	270	Peak	Vertical		
2 *	2489.00	92.04	54.25	37.79	74.00	18.04	100	270	Peak	Vertical		
3	2649.60	55.30	17.27	38.03	74.00	-18.70	100	270	Peak	Vertical		

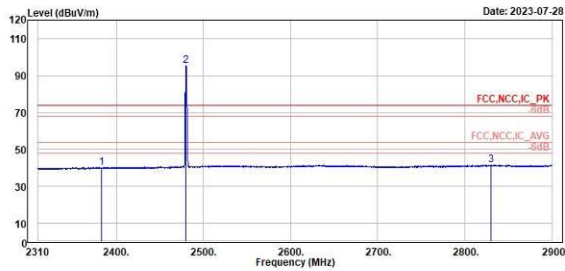
BLE_125K

High Channel (Horizontal) Average

High Channel (Vertical) Average



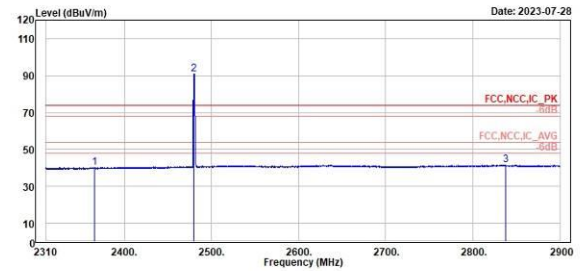
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2383.04	40.28	2.74	37.54	54.00	-13.72	325	148 Average	Horizontal	
2 *	2488.00	95.35	57.56	37.79	54.00	41.35	325	148 Average	Horizontal	
3	2829.91	41.55	3.37	38.18	54.00	-12.45	325	148 Average	Horizontal	



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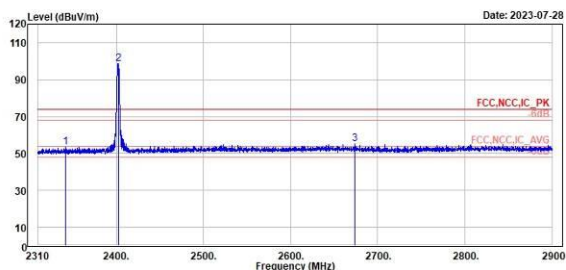
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2365.81	40.24	2.79	37.45	54.00	-13.76	100	270 Average	Vertical	
2 *	2488.00	90.89	53.10	37.79	54.00	36.89	100	270 Average	Vertical	
3	2837.81	41.57	3.40	38.17	54.00	-12.43	100	270 Average	Vertical	

BLE_2M

Low Channel (Horizontal) Peak



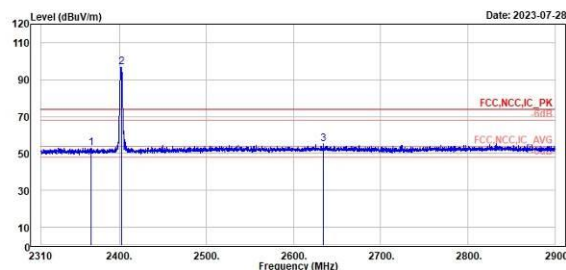
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2341.27	53.28	15.94	37.34	74.00	-20.72	278	153	Peak	Horizontal		
2 *	2402.00	98.74	61.11	37.63	74.00	24.74	278	153	Peak	Horizontal		
3	2673.79	55.38	17.42	37.96	74.00	-18.62	278	153	Peak	Horizontal		



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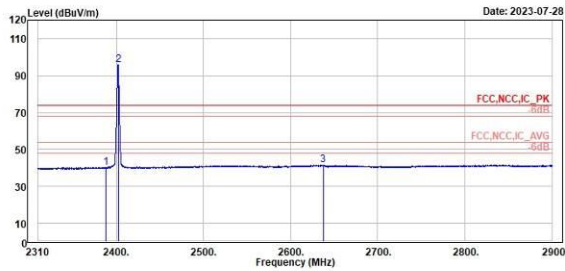
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2368.06	53.14	15.68	37.46	74.00	-20.86	126	190	Peak	Vertical		
2 *	2402.00	96.71	59.08	37.63	74.00	22.71	126	190	Peak	Vertical		
3	2634.03	55.01	17.00	38.01	74.00	-18.99	126	190	Peak	Vertical		

BLE_2M

Low Channel (Horizontal) Average



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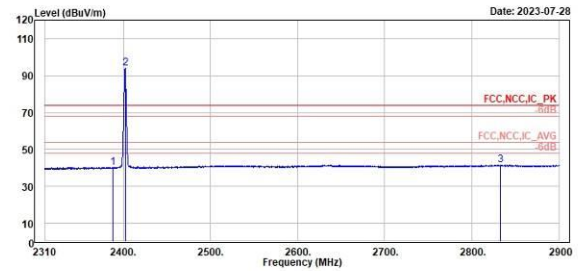


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.35	40.37	2.80	37.57	54.00	-13.63	278	153	Average	Horizontal		
2 *	2402.00	95.94	58.31	37.63	54.00	41.94	278	153	Average	Horizontal		
3	2637.33	41.70	3.69	38.01	54.00	-12.30	278	153	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	cm	deg				
1	2388.12	40.38	2.81	37.57	54.00	-13.62	126	190	Average	Vertical		
2 *	2402.00	95.83	56.20	37.63	54.00	39.83	126	190	Average	Vertical		
3	2833.09	41.54	3.37	38.17	54.00	-12.46	126	190	Average	Vertical		

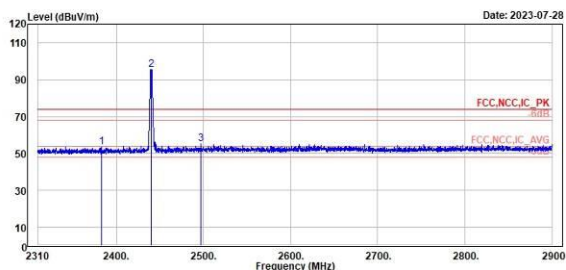
BLE_2M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



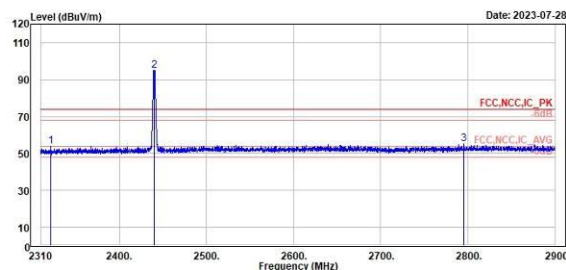
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2382.81	53.46	15.92	37.54	74.00	-20.54	159	211	Peak	Horizontal		
2 *	2440.00	95.41	57.73	37.68	74.00	21.41	159	211	Peak	Horizontal		
3	2497.27	55.02	17.18	37.84	74.00	-18.98	159	211	Peak	Horizontal		



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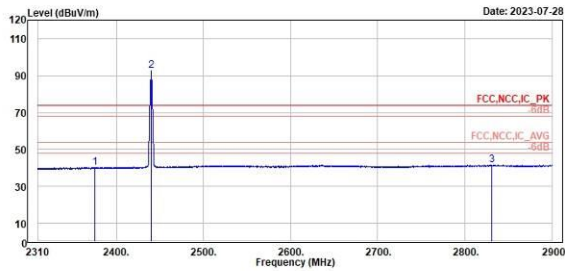
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2321.21	53.92	16.64	37.28	74.00	-20.08	119	194	Peak	Vertical		
2 *	2440.00	94.93	57.25	37.68	74.00	20.93	119	194	Peak	Vertical		
3	2795.33	55.04	16.84	38.20	74.00	-18.96	119	194	Peak	Vertical		

BLE_2M

Middle Channel (Horizontal) Average



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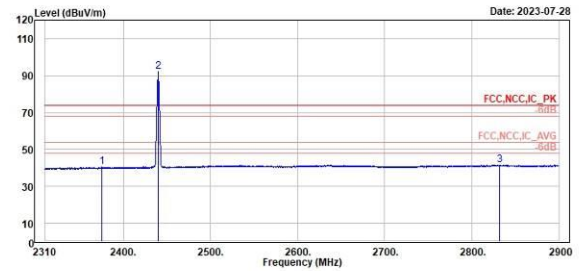


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2375.84	40.35	2.85	37.50	54.00	-13.65	159	211 Average	Horizontal	
2 *	2440.00	92.49	54.81	37.68	54.00	38.49	159	211 Average	Horizontal	
3	2831.09	41.67	3.49	38.18	54.00	-12.33	159	211 Average	Horizontal	

Middle Channel (Vertical) Average



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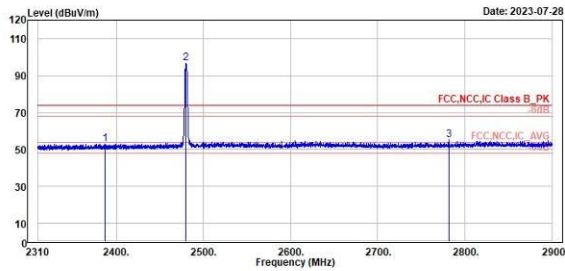
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2375.73	40.48	2.98	37.50	54.00	-13.52	119	194 Average	Vertical	
2 *	2440.00	92.12	54.44	37.68	54.00	38.12	119	194 Average	Vertical	
3	2832.15	41.59	3.41	38.18	54.00	-12.41	119	194 Average	Vertical	

BLE_2M

High Channel (Horizontal) Peak



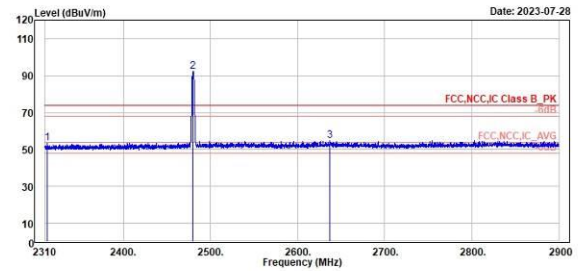
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2386.94	52.97	15.49	37.57	74.00	-21.03	288	146	Peak	Horizontal		
2 *	2488.00	96.63	58.84	37.79	74.00	22.63	288	146	Peak	Horizontal		
3	2781.17	55.16	16.98	38.18	74.00	-18.84	288	146	Peak	Horizontal		



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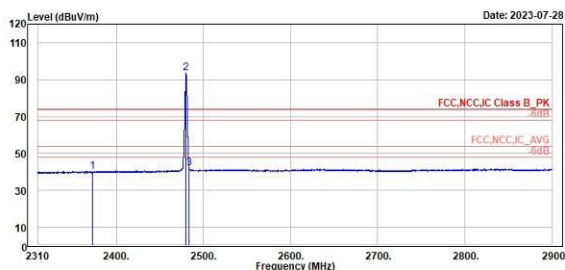
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2313.07	53.41	16.15	37.26	74.00	-20.59	100	270	Peak	Vertical		
2 *	2488.00	92.00	54.21	37.79	74.00	18.00	100	270	Peak	Vertical		
3	2636.86	54.87	16.86	38.01	74.00	-19.13	100	270	Peak	Vertical		

BLE_2M

High Channel (Horizontal) Average



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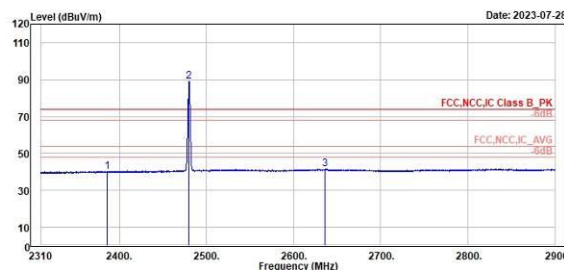


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2372.19	49.23	2.74	37.49	54.00	-13.77	288	146	Average	Horizontal		
2 *	2480.00	93.71	55.92	37.79	54.00	39.71	288	146	Average	Horizontal		
3	2483.46	42.19	4.39	37.80	54.00	-11.81	288	146	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	2386.46	49.19	2.62	37.57	54.00	-13.81	100	270	Average	Vertical		
2 *	2480.00	88.98	51.19	37.79	54.00	34.98	100	270	Average	Vertical		
3	2635.68	41.52	3.51	38.01	54.00	-12.48	100	270	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

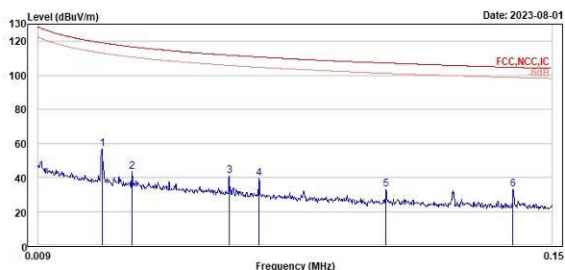
BLE_125K

Low Channel (Open) 9kHz~150kHz

Low Channel (Open) 150kHz~30MHz



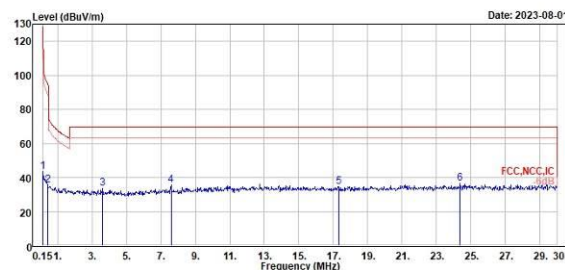
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	56.73	37.77	18.96	119.08	-62.35	100	127 Peak	Open
2	0.03	43.57	24.38	19.19	116.76	-73.19	100	112 Peak	Open
3	0.06	41.09	22.24	18.85	111.82	-70.73	100	90 Peak	Open
4	0.07	39.70	21.05	18.65	110.74	-71.04	100	126 Peak	Open
5	0.10	32.97	15.02	17.95	107.22	-74.25	100	112 Peak	Open
6	0.14	33.11	15.02	18.09	104.72	-71.61	100	123 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	0.15	43.39	25.26	18.13	104.08	-60.69	100	95 Peak	Open
2	0.42	35.52	16.71	18.81	95.17	-59.65	100	121 Peak	Open
3	3.61	33.57	13.98	19.59	69.50	-35.93	100	178 Peak	Open
4	7.58	35.51	14.95	20.56	69.50	-33.99	100	292 Peak	Open
5	17.31	34.82	12.76	22.06	69.50	-34.68	100	136 Peak	Open
6	24.36	36.38	14.10	22.28	69.50	-33.12	100	267 Peak	Open

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

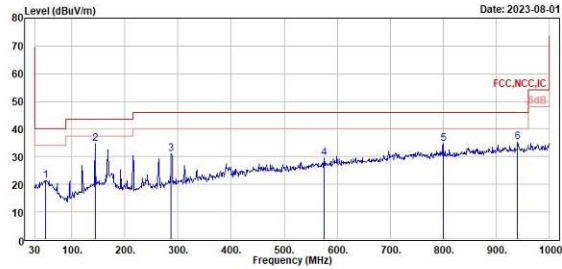
BLE_125K

Low Channel (Horizontal)

Low Channel (Vertical)



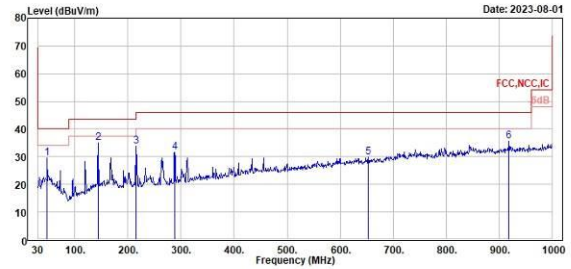
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	50.37	21.28	28.18	-6.90	40.00	-18.72	100	85 Peak	Horizontal	
2	143.49	34.72	42.44	-7.72	43.50	-8.78	200	246 Peak	Horizontal	
3	287.05	31.14	37.98	-6.84	46.00	-14.86	100	273 Peak	Horizontal	
4	575.14	29.44	30.78	-1.34	46.00	-16.56	200	235 Peak	Horizontal	
5	808.18	34.82	31.68	3.14	46.00	-11.18	100	216 Peak	Horizontal	
6	940.83	35.21	30.34	4.87	46.00	-10.79	130	360 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	47.46	29.43	36.50	-7.07	40.00	-10.57	100	58 Peak	Vertical	
2	143.49	34.93	42.65	-7.72	43.50	-8.57	100	214 Peak	Vertical	
3	215.27	33.64	43.40	-9.76	43.50	-9.86	100	83 Peak	Vertical	
4	280.02	31.77	38.61	-6.84	46.00	-14.23	100	201 Peak	Vertical	
5	653.71	29.71	29.27	0.44	46.00	-16.29	300	63 Peak	Vertical	
6	918.52	35.40	30.72	4.78	46.00	-10.52	200	287 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

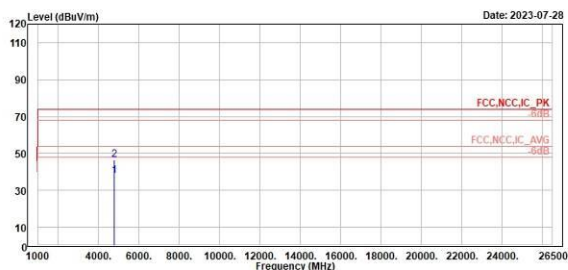
BLE_125K

Low Channel (Horizontal)

Low Channel (Vertical)



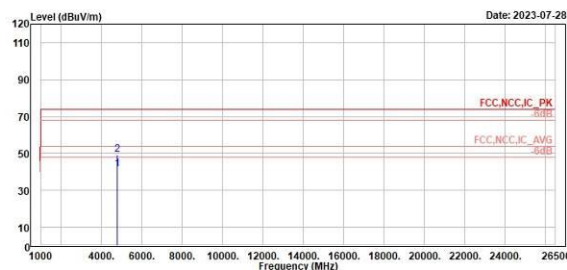
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	Freq	Level	Read	Level	Factor	Limit	Over	Line	Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg						
1	4894.00	37.96	48.36	-10.40	54.00	-16.04	280	360	Average	Horizontal				
2	4894.00	46.74	57.14	-10.40	74.00	-27.26	280	360	Peak	Horizontal				



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	Freq	Level	Read	Level	Factor	Limit	Over	Line	Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg						
1	4894.00	41.36	51.76	-10.40	54.00	-12.64	381	294	Average	Vertical				
2	4894.00	49.12	59.52	-10.40	74.00	-24.88	381	294	Peak	Vertical				

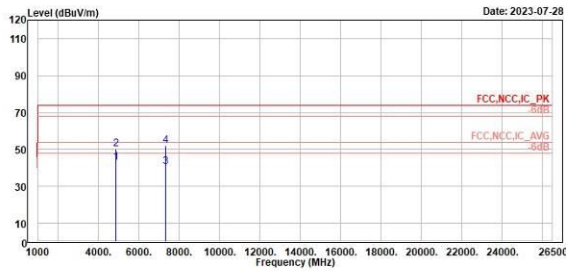
BLE_125K

Middle Channel (Horizontal)

Middle Channel (Vertical)



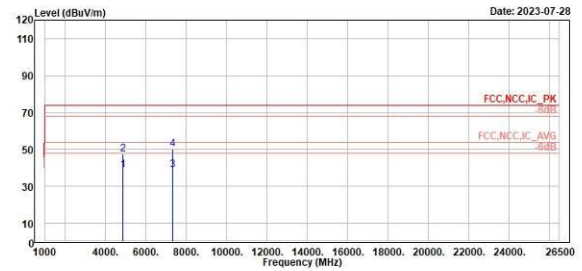
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	42.99	53.32	-10.33	54.00	-11.01	100	311	Average	Horizontal		
2	4880.00	50.36	60.69	-10.33	74.00	-23.64	100	311	Peak	Horizontal		
3	7320.00	40.76	49.26	-8.50	54.00	-13.24	358	360	Average	Horizontal		
4	7320.00	52.18	60.68	-8.50	74.00	-21.82	358	360	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	4880.00	38.87	49.20	-10.33	54.00	-15.13	300	33	Average	Vertical		
2	4880.00	47.58	57.91	-10.33	74.00	-26.42	300	33	Peak	Vertical		
3	7320.00	38.89	47.39	-8.50	54.00	-15.11	100	79	Average	Vertical		
4	7320.00	50.20	58.70	-8.50	74.00	-23.80	100	79	Peak	Vertical		

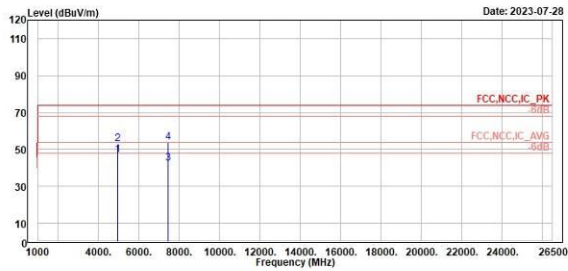
BLE_125K

High Channel (Horizontal)

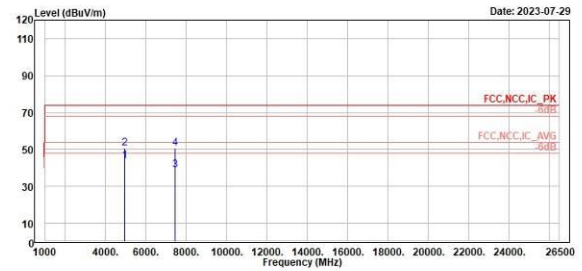
High Channel (Vertical)



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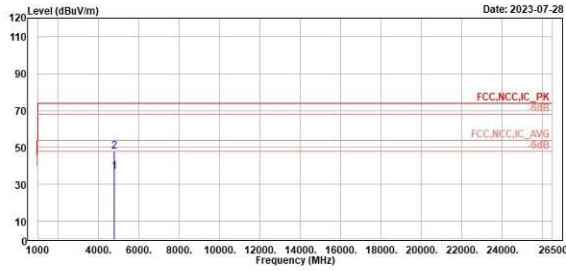
BLE_2M

Low Channel (Horizontal)

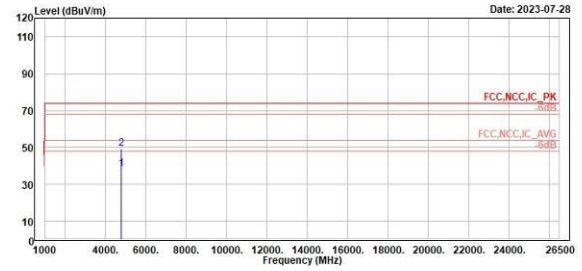
Low Channel (Vertical)



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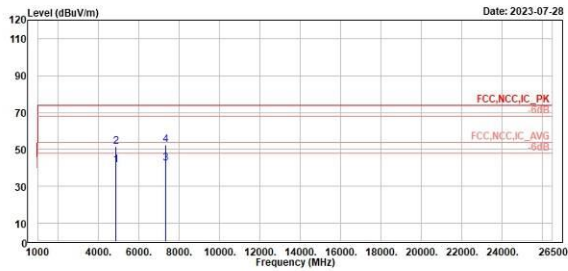


BLE_2M

Middle Channel (Horizontal)



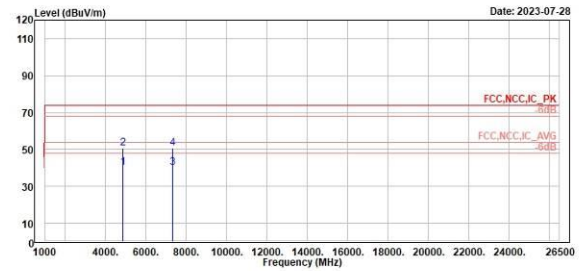
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	41.35	51.68	-10.33	54.00	-12.65	376	308	Average	Horizontal		
2	4880.00	51.34	61.67	-10.33	74.00	-22.66	376	308	Peak	Horizontal		
3	7320.00	42.24	50.74	-8.50	54.00	-11.76	353	28	Average	Horizontal		
4	7320.00	52.61	61.11	-8.50	74.00	-21.39	353	28	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	40.26	50.59	-10.33	54.00	-13.74	348	245	Average	Vertical		
2	4880.00	50.69	61.02	-10.33	74.00	-23.31	348	245	Peak	Vertical		
3	7320.00	40.13	48.63	-8.50	54.00	-13.87	348	245	Average	Vertical		
4	7320.00	50.50	59.00	-8.50	74.00	-23.50	100	112	Peak	Vertical		

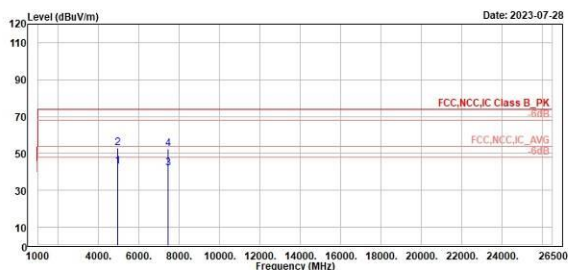
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



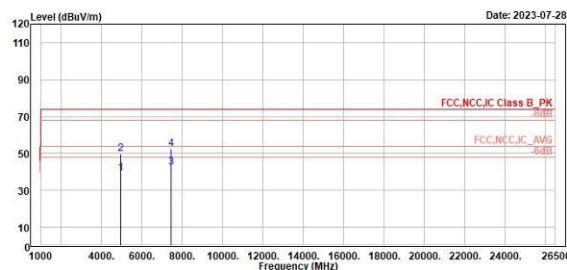
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4969.00	42.67	52.89	-10.22	54.00	-11.33	100	307	Average	Horizontal		
2	4969.00	52.96	63.18	-10.22	74.00	-21.04	100	307	Peak	Horizontal		
3	7440.00	42.17	50.49	-8.32	54.00	-11.83	100	111	Average	Horizontal		
4	7440.00	52.44	60.76	-8.32	74.00	-21.56	100	111	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	4969.00	39.09	49.31	-10.22	54.00	-14.91	100	284	Average	Vertical		
2	4969.00	49.81	60.03	-10.22	74.00	-24.19	100	284	Peak	Vertical		
3	7440.00	42.23	50.55	-8.32	54.00	-11.77	100	117	Average	Vertical		
4	7440.00	52.64	60.96	-8.32	74.00	-21.36	100	117	Peak	Vertical		