

Appendix B: Test Results of Radiated Spurious Emissions & Mains Conducted Emission for Monopole Antenna of Kaga FEI

Ant No.: 1

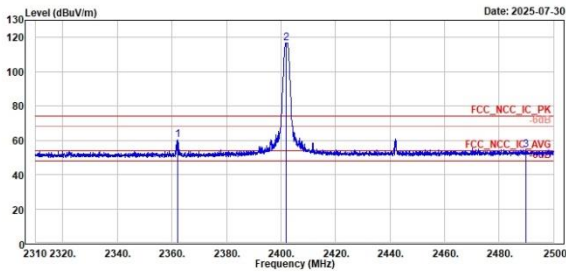
Band Edges, 2.31GHz ~ 2.5GHz

Bluetooth LE_1M

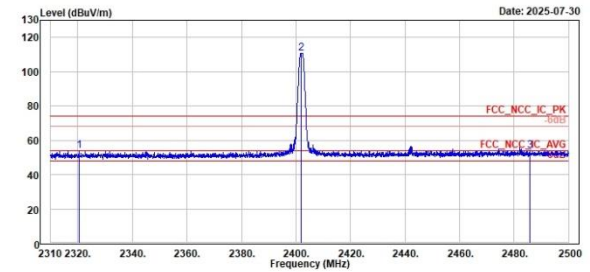
Low Channel (Horizontal) Peak



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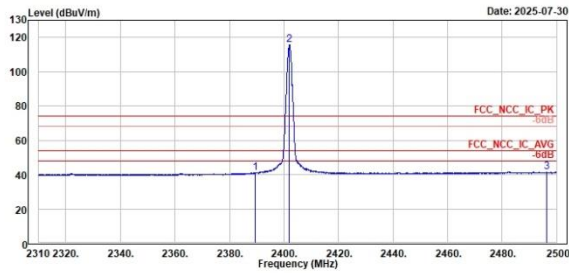


Bluetooth LE_1M

Low Channel (Horizontal) Average



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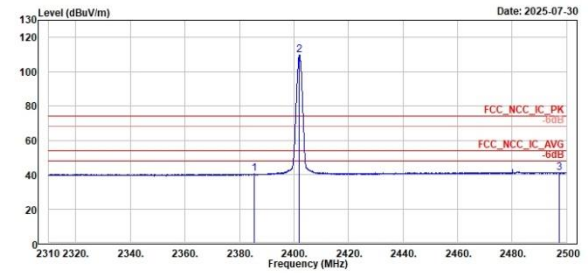


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.52	41.21	4.07	37.14	54.00	-12.79	282	11	Average	Horizontal
2 *	2402.00	115.75	78.51	37.24	54.00	61.75	282	11	Average	Horizontal
3	2496.34	41.45	3.93	37.52	54.00	-12.55	282	11	Average	Horizontal

Low Channel (Vertical) Average



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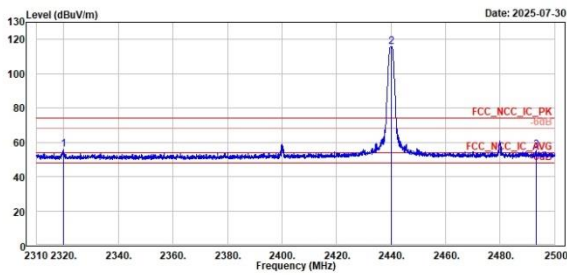
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2385.53	40.38	3.28	37.10	54.00	-13.62	180	182	Average	Vertical
2 *	2402.00	109.75	72.51	37.24	54.00	55.75	180	182	Average	Vertical
3	2497.34	41.26	3.74	37.52	54.00	-12.74	180	182	Average	Vertical

Bluetooth LE_1M

Middle Channel (Horizontal) Peak



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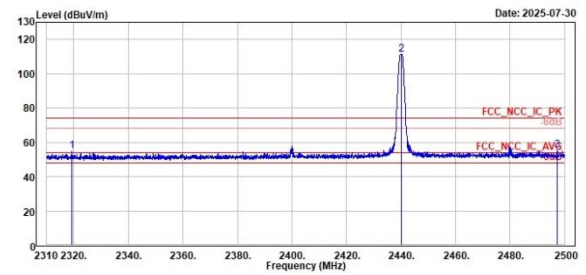


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2319.83	55.82	19.13	36.69	74.00	-18.18	303	360 Peak	Horizontal	
2 *	2440.00	115.63	78.20	37.43	74.00	41.63	303	360 Peak	Horizontal	
3	2493.11	55.33	17.81	37.52	74.00	-18.67	303	360 Peak	Horizontal	

Middle Channel (Vertical) Peak



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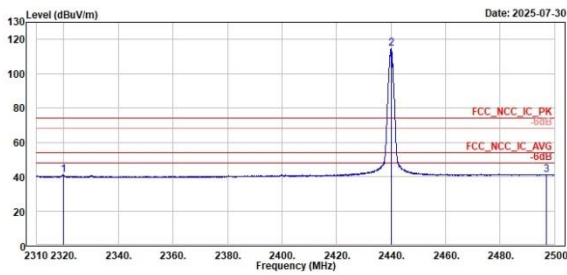
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2319.22	54.73	18.04	36.69	74.00	-19.27	100	183 Peak	Vertical	
2 *	2440.00	111.18	73.75	37.43	74.00	37.18	100	183 Peak	Vertical	
3	2497.34	55.24	17.72	37.52	74.00	-18.76	100	183 Peak	Vertical	

Bluetooth LE_1M

Middle Channel (Horizontal) Average



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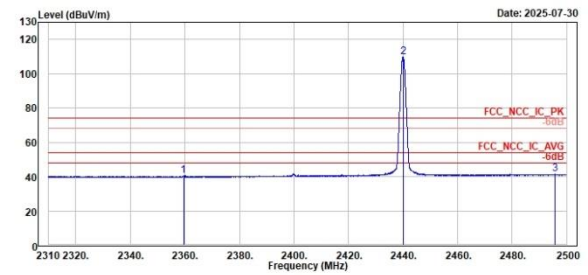


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2319.79	41.12	4.43	36.69	54.00	-12.88		303	360	Average	Horizontal	
2 *	2440.00	114.54	77.11	37.43	54.00	60.54		303	360	Average	Horizontal	
3	2497.06	41.26	3.74	37.52	54.00	-12.74		303	360	Average	Horizontal	

Middle Channel (Vertical) Average



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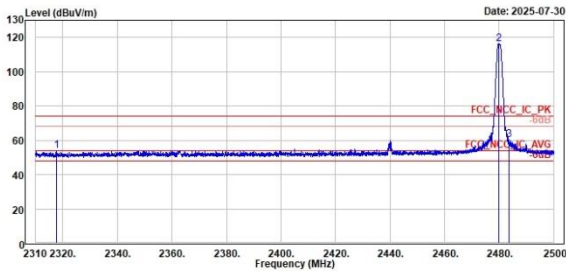
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2359.50	40.43	3.56	36.87	54.00	-13.57		100	183	Average	Vertical	
2 *	2440.00	109.98	72.55	37.43	54.00	55.98		100	183	Average	Vertical	
3	2495.73	41.36	3.84	37.52	54.00	-12.64		100	183	Average	Vertical	

Bluetooth LE_1M

High Channel (Horizontal) Peak



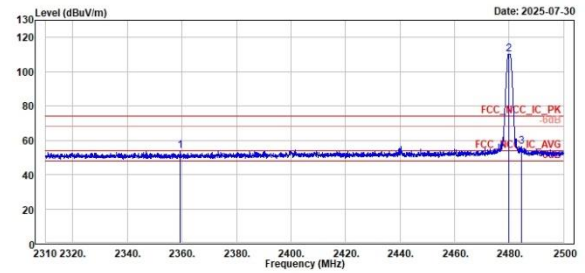
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2317.70	53.98	17.29	36.69	74.00	-20.02		296	336	Peak	Horizontal	
2 *	2480.00	116.05	78.54	37.51	74.00	42.05		296	336	Peak	Horizontal	
3	2483.76	60.52	23.01	37.51	74.00	-13.48		296	336	Peak	Horizontal	



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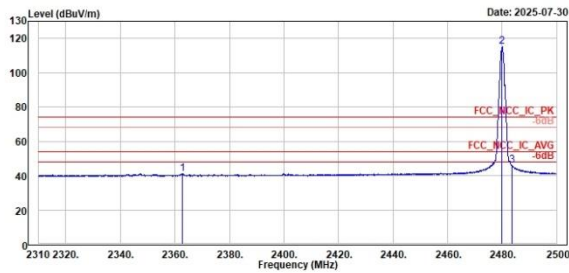
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2359.40	53.69	16.82	36.87	74.00	-20.31		181	191	Peak	Vertical	
2 *	2480.00	110.40	72.89	37.51	74.00	36.40		181	191	Peak	Vertical	
3	2484.52	56.45	18.94	37.51	74.00	-17.55		181	191	Peak	Vertical	

Bluetooth LE_1M

High Channel (Horizontal) Average



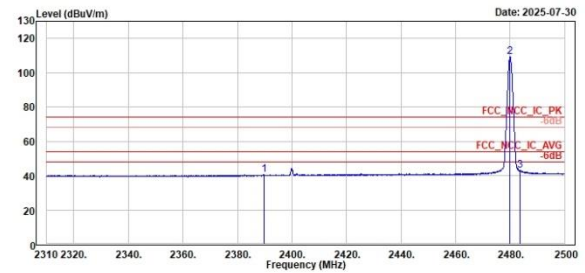
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2362.82	41.21	4.32	36.89	54.00	-12.79	296	336	Average	Horizontal	
2 *	2480.00	114.93	77.42	37.51	54.00	60.93	296	336	Average	Horizontal	
3	2483.57	45.92	8.41	37.51	54.00	-8.08	296	336	Average	Horizontal	



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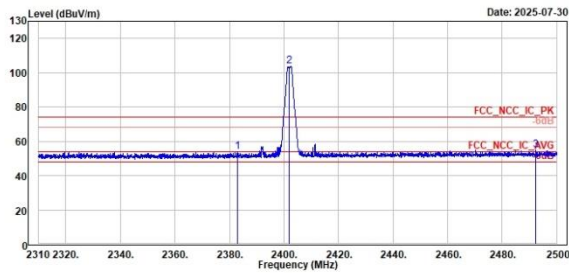
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.85	40.40	3.26	37.14	54.00	-13.60	181	191	Average	Vertical	
2 *	2480.00	109.16	71.65	37.51	54.00	55.16	181	191	Average	Vertical	
3	2483.47	43.02	5.51	37.51	54.00	-10.98	181	191	Average	Vertical	

Bluetooth LE_2M

Low Channel (Horizontal) Peak



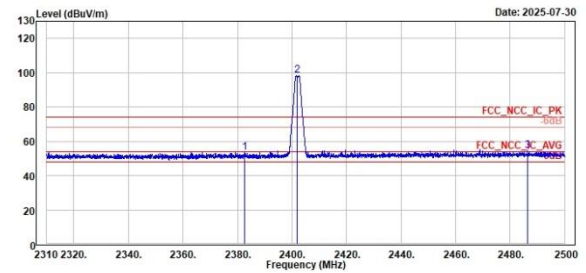
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2382.87	53.96	16.89	37.07	74.00	-20.04	350	10	Peak	Horizontal	
2 *	2402.00	103.61	66.37	37.24	74.00	29.61	350	10	Peak	Horizontal	
3	2492.35	54.69	17.17	37.52	74.00	-19.31	350	10	Peak	Horizontal	



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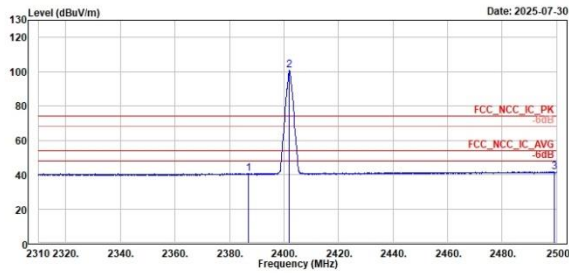
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2382.53	53.62	16.55	37.07	74.00	-20.38	104	182	Peak	Vertical	
2 *	2402.00	98.37	61.13	37.24	74.00	24.37	104	182	Peak	Vertical	
3	2486.46	54.27	16.76	37.51	74.00	-19.73	104	182	Peak	Vertical	

Bluetooth LE_2M

Low Channel (Horizontal) Average



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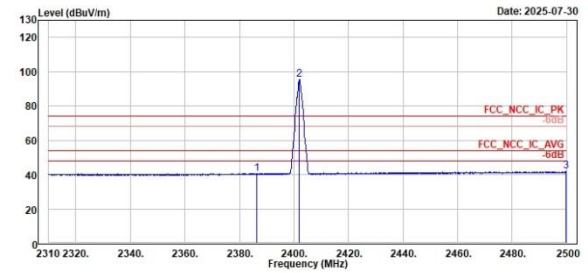


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2387.00	40.76	3.64	37.12	54.00	-13.24	350	10	Average	Horizontal
2 *	2402.00	100.63	63.39	37.24	54.00	46.63	350	10	Average	Horizontal
3	2499.05	41.66	4.14	37.52	54.00	-12.34	350	10	Average	Horizontal

Low Channel (Vertical) Average



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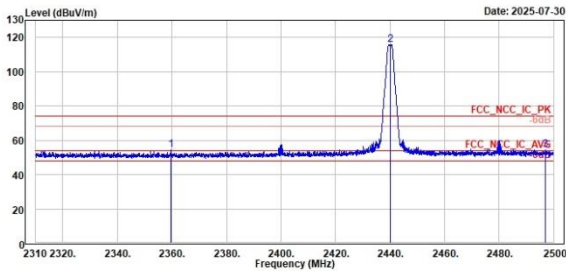
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2386.24	40.61	3.50	37.11	54.00	-13.39	104	102	Average	Vertical
2 *	2402.00	95.44	58.20	37.24	54.00	41.44	104	102	Average	Vertical
3	2499.86	41.87	4.35	37.52	54.00	-12.13	104	102	Average	Vertical

Bluetooth LE_2M

Middle Channel (Horizontal) Peak



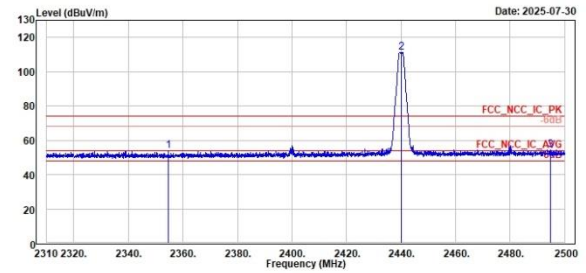
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2359.73	54.14	17.27	36.87	74.00	-19.86	303	360	Peak	Horizontal		
2 *	2440.00	115.82	78.39	37.43	74.00	41.82	303	360	Peak	Horizontal		
3	2496.96	54.51	16.99	37.52	74.00	-19.49	303	360	Peak	Horizontal		



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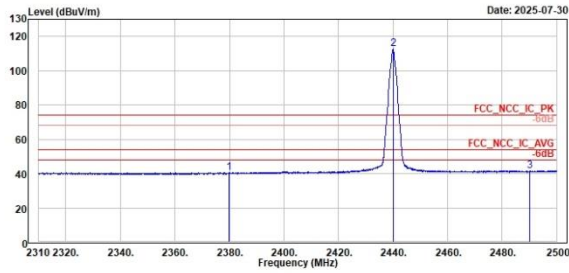
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2354.65	53.85	17.02	36.83	74.00	-20.15	101	183	Peak	Vertical		
2 *	2440.00	111.43	74.00	37.43	74.00	37.43	101	183	Peak	Vertical		
3	2494.68	54.56	17.04	37.52	74.00	-19.44	101	183	Peak	Vertical		

Bluetooth LE_2M

Middle Channel (Horizontal) Average



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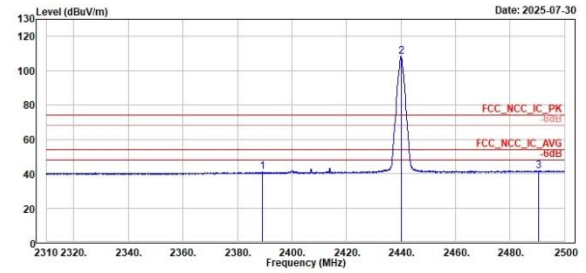


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2379.92	40.48	3.43	37.05	54.00	-13.52	303	360	Average	Horizontal		
2 *	2440.00	112.60	75.17	37.43	54.00	58.60	303	360	Average	Horizontal		
3	2490.07	41.63	4.11	37.52	54.00	-12.37	303	360	Average	Horizontal		

Middle Channel (Vertical) Average



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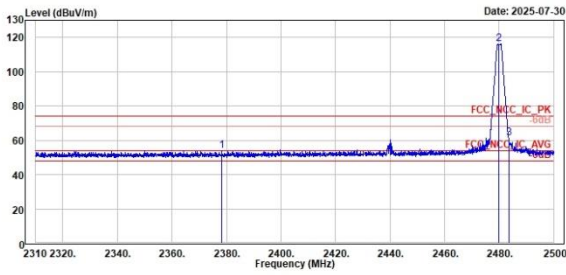
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.18	40.86	3.73	37.13	54.00	-13.14	101	183	Average	Vertical		
2 *	2440.00	100.29	70.86	37.43	54.00	54.29	101	183	Average	Vertical		
3	2490.31	41.61	4.09	37.52	54.00	-12.39	101	183	Average	Vertical		

Bluetooth LE_2M

High Channel (Horizontal) Peak



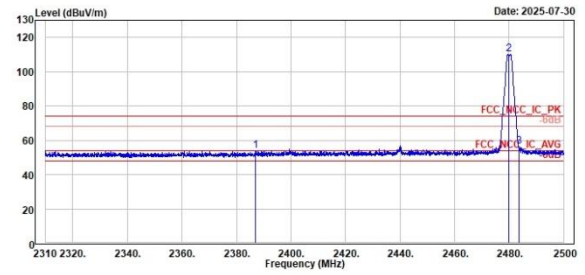
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2378.40	54.03	16.99	37.04	74.00	-19.97	297	335	Peak	Horizontal		
2 *	2480.00	116.20	78.69	37.51	74.00	42.20	297	335	Peak	Horizontal		
3	2483.51	61.53	24.02	37.51	74.00	-12.47	297	335	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	2387.09	54.12	17.00	37.12	74.00	-19.88	100	183	Peak	Vertical		
2 *	2480.00	110.03	72.52	37.51	74.00	36.03	100	183	Peak	Vertical		
3	2483.61	56.44	18.93	37.51	74.00	-17.56	100	183	Peak	Vertical		

	Freq	Read Level	Line Limit	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBm	dBm/m	dB	cm	deg		
1	2389.33	40.60	3.47	37.13	54.00	-13.40	100	183 Average	Vertical
2 *	2480.00	106.91	69.40	37.51	54.00	52.91	100	183 Average	Vertical
3	2483.52	45.14	7.63	37.51	54.00	-8.86	100	183 Average	Vertical

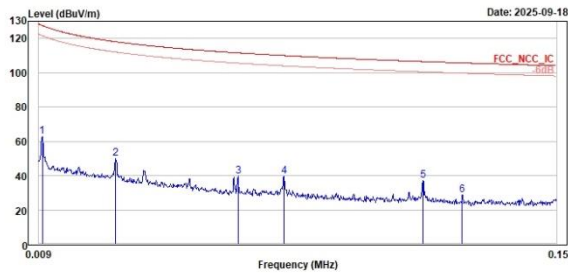
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

Bluetooth LE_2M

Middle Channel (Open) 9kHz~150kHz



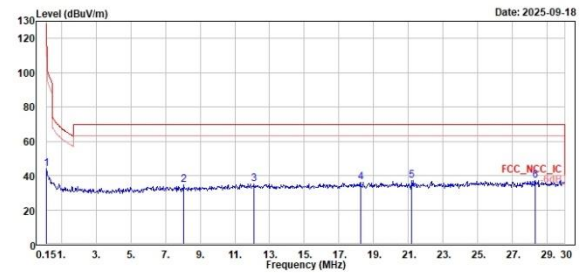
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.010	62.72	44.60	18.12	127.60	-64.88	100	218	Peak	Open		
2	0.030	49.93	29.91	20.02	118.05	-68.12	100	346	Peak	Open		
3	0.063	39.57	21.45	18.12	111.57	-72.00	100	197	Peak	Open		
4	0.076	39.31	20.96	18.35	110.00	-70.69	100	255	Peak	Open		
5	0.114	37.22	19.11	18.11	106.49	-69.27	100	87	Peak	Open		
6	0.124	28.85	10.67	18.18	105.71	-76.86	100	50	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	0.150	43.83	25.49	18.34	104.80	-60.25	100	58	Peak	Open		
2	8.030	34.53	13.73	20.80	69.50	-34.97	100	120	Peak	Open		
3	12.120	35.25	13.50	21.75	69.50	-34.25	100	330	Peak	Open		
4	18.239	36.01	13.33	22.68	69.50	-33.49	100	191	Peak	Open		
5	21.194	37.02	14.39	22.63	69.50	-32.48	100	103	Peak	Open		
6	28.299	37.02	13.90	23.12	69.50	-32.48	100	338	Peak	Open		

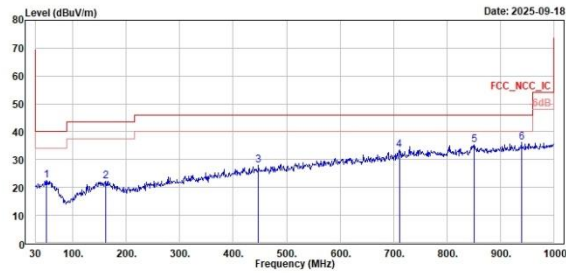
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

Bluetooth LE_2M

Middle Channel (Horizontal)



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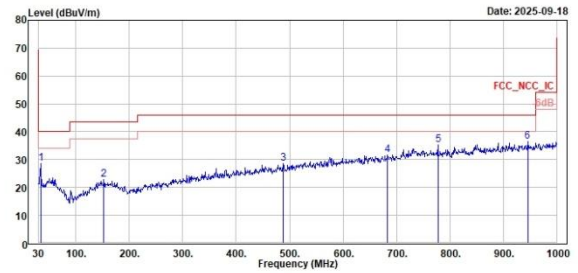


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	50.378	22.53	28.21	-5.68	40.00	-17.47	100	24 Peak	Horizontal	
2	161.920	22.22	27.87	-5.65	43.50	-21.28	100	286 Peak	Horizontal	
3	447.100	27.85	29.28	-1.43	46.00	-18.15	100	279 Peak	Horizontal	
4	710.940	33.38	30.12	3.26	46.00	-12.62	100	89 Peak	Horizontal	
5	851.590	35.28	30.06	5.22	46.00	-10.72	100	124 Peak	Horizontal	
6	939.850	36.88	29.42	6.66	46.00	-9.92	100	289 Peak	Horizontal	

Middle 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	33.880	28.72	36.14	-7.42	40.00	-11.28	100	275 Peak	Vertical	
2	152.220	22.00	28.66	-5.86	43.50	-20.70	100	253 Peak	Vertical	
3	488.810	28.64	29.50	-0.86	46.00	-17.36	100	101 Peak	Vertical	
4	683.780	31.73	28.89	2.84	46.00	-14.27	100	26 Peak	Vertical	
5	777.870	35.22	30.52	4.70	46.00	-10.78	100	24 Peak	Vertical	
6	945.680	36.43	29.66	6.77	46.00	-9.57	100	163 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

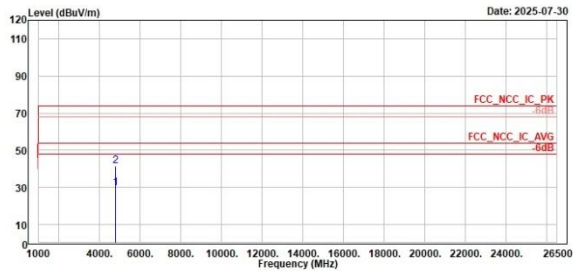
Bluetooth LE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



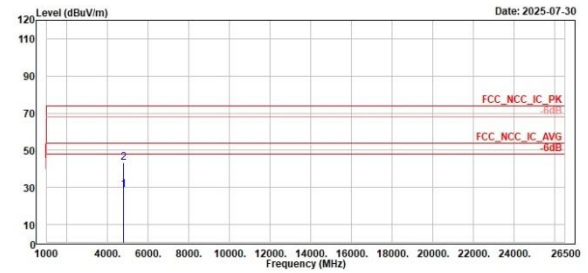
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Line	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4804.00	29.67	40.42	-10.75	54.00	-24.33	102	315	Average	Horizontal	
2	4804.00	41.71	52.46	-10.75	74.00	-32.29	102	315	Peak	Horizontal	



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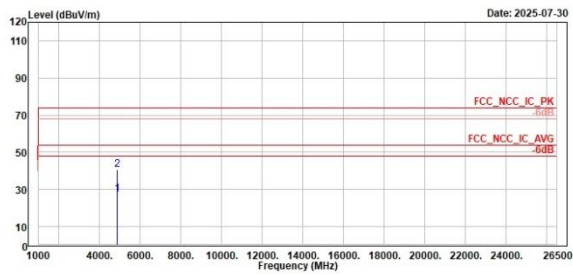
Line	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4804.00	28.81	39.56	-10.75	54.00	-25.19	115	156	Average	Vertical	
2	4804.00	43.49	54.24	-10.75	74.00	-30.51	115	156	Peak	Vertical	

Bluetooth LE_1M

Middle Channel (Horizontal)



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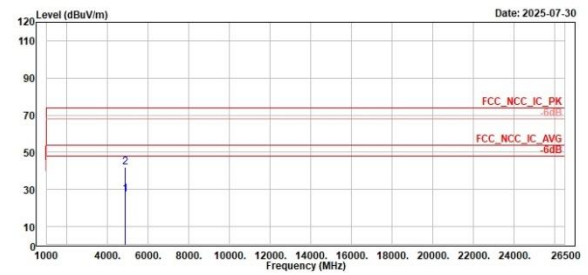


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4880.00	27.33	37.89	-10.56	54.00	-26.67	180	144 Average	Horizontal	
2	4880.00	40.67	51.23	-10.56	74.00	-33.33	180	144 Peak	Horizontal	

Middle 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	4880.00	27.51	38.07	-10.56	54.00	-26.49	300	88 Average	Vertical	
2	4880.00	41.85	52.41	-10.56	74.00	-32.15	300	88 Peak	Vertical	

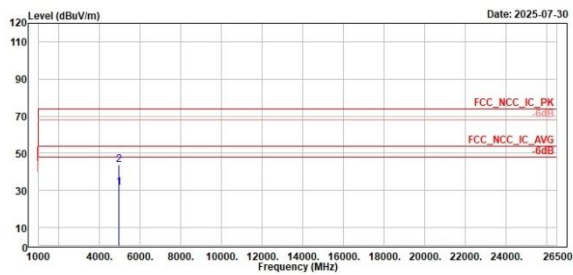
Bluetooth LE_1M

High Channel (Horizontal)

High Channel (Vertical)



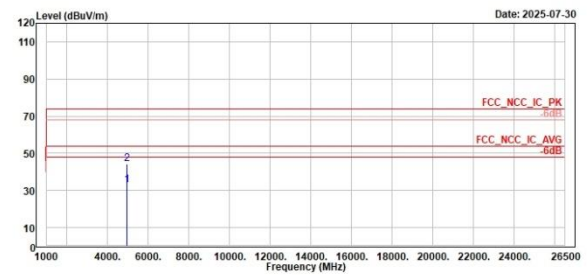
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	31.62	42.01	-10.39	54.00	-22.38	290	355	Average	Horizontal	
2	4960.00	43.90	54.29	-10.39	74.00	-30.10	290	355	Peak	Horizontal	



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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	33.03	43.42	-10.39	54.00	-20.97	279	74	Average	Vertical	
2	4960.00	44.09	54.48	-10.39	74.00	-29.91	279	74	Peak	Vertical	

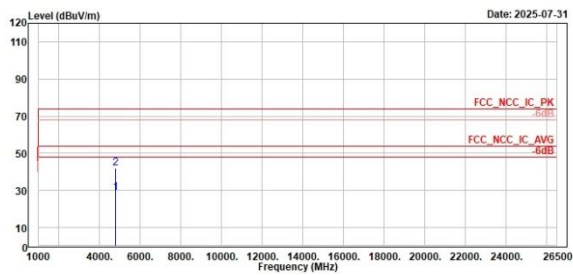
Bluetooth LE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



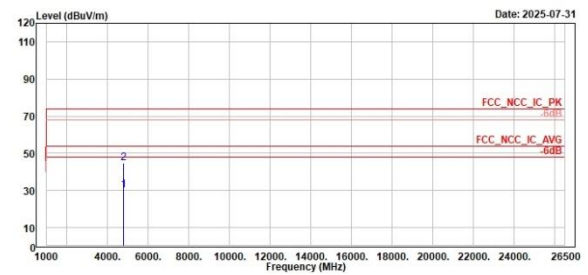
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	28.83	39.58	-10.75	54.00	-25.17	326	315	Average	Horizontal		
2	4894.00	41.98	52.73	-10.75	74.00	-32.02	326	315	Peak	Horizontal		



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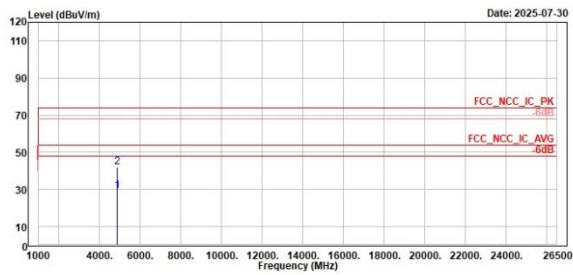
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	29.89	40.64	-10.75	54.00	-24.11	189	143	Average	Vertical		
2	4894.00	44.76	55.51	-10.75	74.00	-29.24	189	143	Peak	Vertical		

Bluetooth LE_2M

Middle Channel (Horizontal)



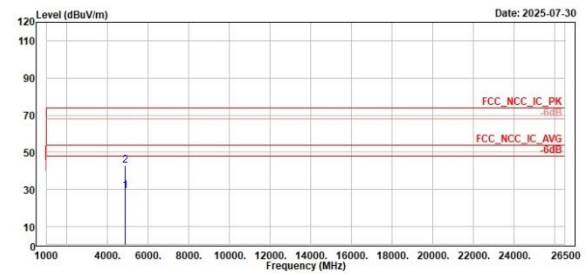
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4880.00	29.19	39.75	-10.56	54.00	-24.81	258	5 Average	Horizontal	
2	4880.00	41.98	52.54	-10.56	74.00	-32.02	258	5 Peak	Horizontal	



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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	4880.00	29.12	39.68	-10.56	54.00	-24.88	341	102 Average	Vertical	
2	4880.00	42.86	53.42	-10.56	74.00	-31.14	341	102 Peak	Vertical	

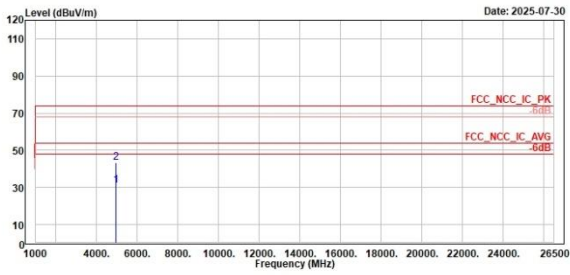
Bluetooth LE_2M

High Channel (Horizontal)

High Channel (Vertical)



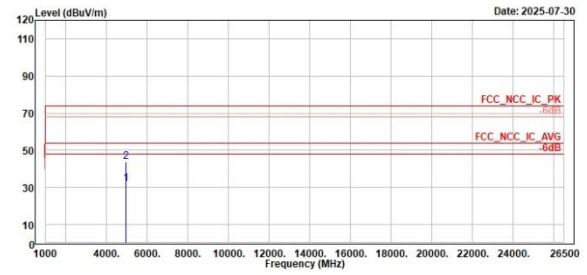
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	4960.00	31.00	41.39	-10.39	54.00	-23.00	186	343 Average	Horizontal	
2	4960.00	43.33	53.72	-10.39	74.00	-30.67	186	343 Peak	Horizontal	



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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	4960.00	31.77	42.16	-10.39	54.00	-22.23	296	74 Average	Vertical	
2	4960.00	43.79	54.18	-10.39	74.00	-30.21	296	74 Peak	Vertical	

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

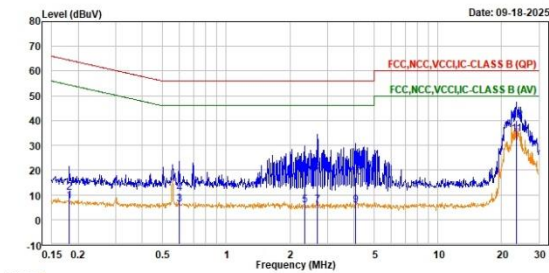
Worst Band

(Line)

(Neutral)



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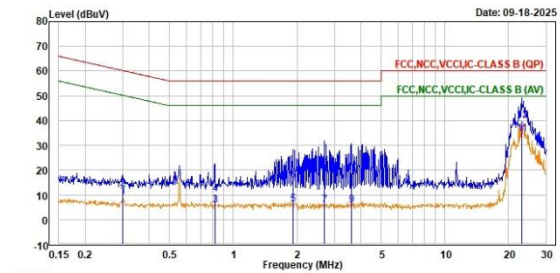


Trace: 1

	Freq	Level	Read	Limit	Over			
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase	Note
1	0.181	7.49	-2.14	9.63	54.43	-46.94 Average	line1	
2	0.181	10.93	1.30	9.63	64.43	-53.50 QP	line1	
3	0.600	6.11	-3.52	9.63	46.00	-39.89 Average	line1	
4	0.600	10.48	0.85	9.63	56.00	-45.52 QP	line1	
5	2.338	5.63	-4.03	9.66	46.00	-40.37 Average	line1	
6	2.338	18.87	9.21	9.66	56.00	-37.13 QP	line1	
7	2.688	5.73	-3.93	9.66	46.00	-40.27 Average	line1	
8	2.688	19.42	9.76	9.66	56.00	-36.50 QP	line1	
9	4.065	5.67	-3.01	9.68	46.00	-40.13 Average	line1	
10	4.065	17.01	7.33	9.68	56.00	-38.99 QP	line1	
11	23.499	34.57	24.86	9.71	50.00	-15.43 Average	line1	
12	23.499	39.87	30.16	9.71	60.00	-20.13 QP	line1	



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Trace: 1

	Freq	Level	Read	Limit	Over			
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase	Note
1	0.301	9.04	-0.59	9.63	50.20	-41.16 Average	neutral	
2	0.301	12.11	2.48	9.63	60.20	-48.09 QP	neutral	
3	0.821	5.90	-3.74	9.64	46.00	-40.10 Average	neutral	
4	0.821	10.07	0.43	9.64	56.00	-45.93 QP	neutral	
5	1.915	6.20	-3.46	9.66	46.00	-39.80 Average	neutral	
6	1.915	15.68	6.02	9.66	56.00	-40.32 QP	neutral	
7	2.701	5.85	-3.82	9.67	46.00	-40.15 Average	neutral	
8	2.701	20.43	10.76	9.67	56.00	-35.57 QP	neutral	
9	3.625	5.88	-3.81	9.69	46.00	-40.12 Average	neutral	
10	3.625	18.90	9.21	9.69	56.00	-37.10 QP	neutral	
11	23.035	34.53	24.68	9.85	50.00	-15.47 Average	neutral	
12	23.035	39.84	29.99	9.85	60.00	-20.16 QP	neutral	