

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

Band Edges, 2.31GHz ~ 2.9GHz

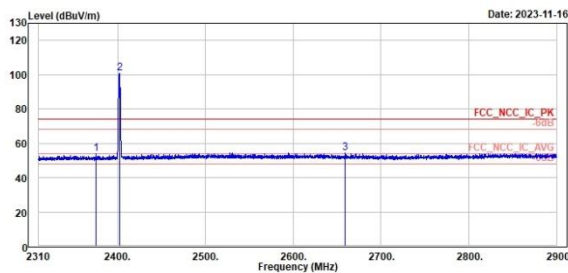
BLE_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



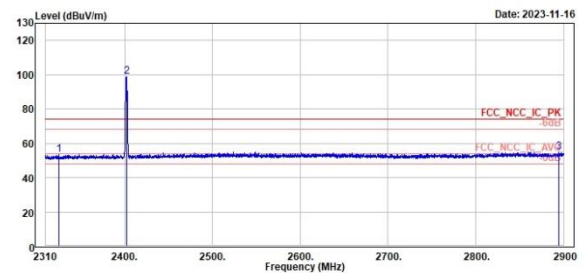
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2375.37	53.67	16.58	37.09	74.00	-20.33	160	195	Peak	Horizontal	
2 *	2402.00	100.96	63.84	37.12	74.00	26.96	160	195	Peak	Horizontal	
3	2659.40	54.45	17.22	37.23	74.00	-19.55	160	195	Peak	Horizontal	



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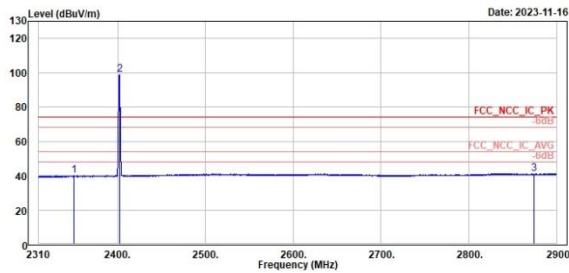
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2325.22	53.50	16.61	36.89	74.00	-20.50	300	169	Peak	Vertical	
2 *	2402.00	98.92	61.80	37.12	74.00	24.92	300	169	Peak	Vertical	
3	2894.45	55.02	17.08	37.94	74.00	-18.98	300	169	Peak	Vertical	

BLE_1M

Low Channel (Horizontal) Average



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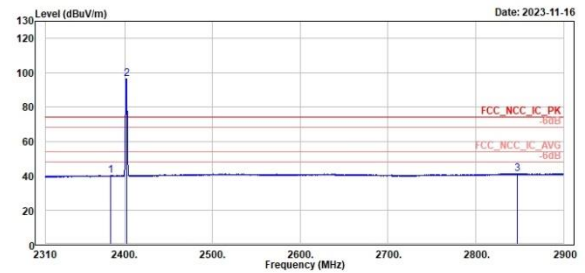


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2359.12	39.87	2.81	37.06	54.00	-14.13	160	195	Average	Horizontal	
2 *	2402.00	98.64	61.52	37.12	54.00	44.64	160	195	Average	Horizontal	
3	2874.51	41.11	3.27	37.84	54.00	-12.89	160	195	Average	Horizontal	

Low Channel (Vertical) Average



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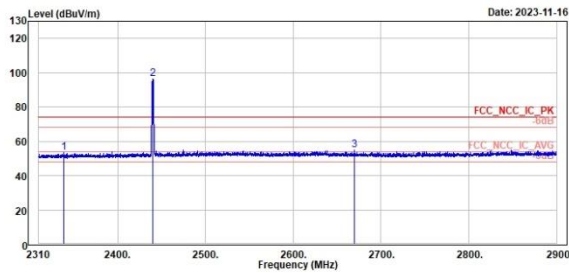
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2384.10	39.91	2.82	37.09	54.00	-14.09	300	169	Average	Vertical	
2 *	2402.00	98.61	59.49	37.12	54.00	42.61	300	169	Average	Vertical	
3	2847.02	41.19	3.49	37.70	54.00	-12.81	300	169	Average	Vertical	

BLE_1M

Middle Channel (Horizontal) Peak



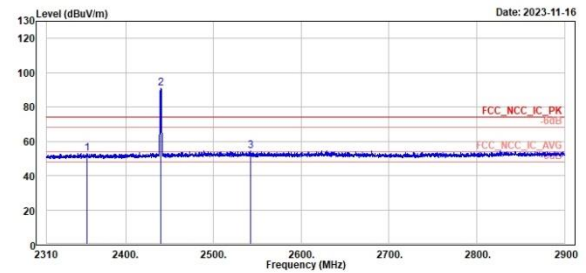
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2338.91	53.21	16.23	36.98	74.00	-20.79	129	194	Peak	Horizontal	
2 *	2448.00	96.60	59.22	37.38	74.00	22.60	129	194	Peak	Horizontal	
3	2669.90	54.91	17.69	37.22	74.00	-19.09	129	194	Peak	Horizontal	



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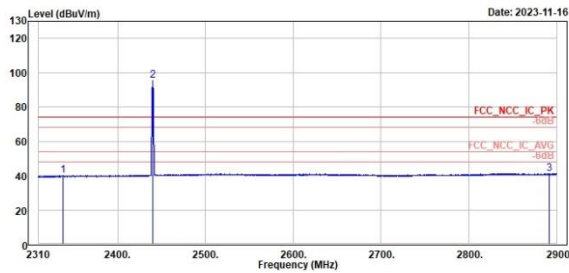
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2355.90	53.09	16.02	37.07	74.00	-20.91	350	270	Peak	Vertical	
2 *	2448.00	91.18	53.80	37.38	74.00	17.18	350	270	Peak	Vertical	
3	2542.11	54.51	17.05	37.46	74.00	-19.49	350	270	Peak	Vertical	

BLE_1M

Middle Channel (Horizontal) Average



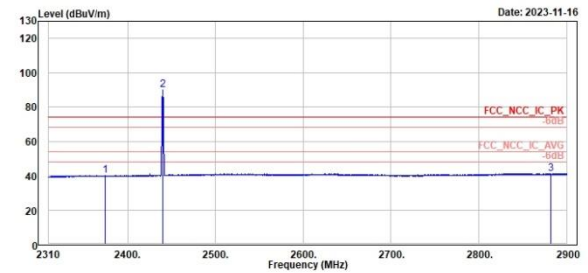
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2337.85	39.94	2.96	36.98	54.00	-14.06	129	194	Average	Horizontal	
2 *	2440.00	95.41	58.03	37.38	54.00	41.41	129	194	Average	Horizontal	
3	2891.50	41.23	3.30	37.93	54.00	-12.77	129	194	Average	Horizontal	



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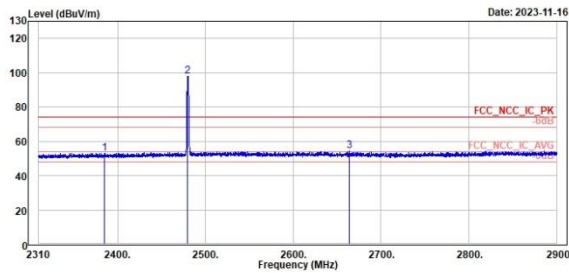
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2374.55	39.94	2.86	37.08	54.00	-14.06	350	270	Average	Vertical	
2 *	2440.00	90.00	52.62	37.38	54.00	36.00	350	270	Average	Vertical	
3	2881.59	41.19	3.31	37.88	54.00	-12.81	350	270	Average	Vertical	

BLE_1M

High Channel (Horizontal) Peak



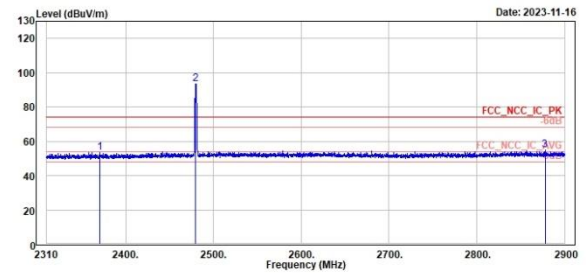
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2385.17	52.91	15.82	37.09	74.00	-21.09	100	236	Peak	Horizontal	
2 *	2488.00	97.85	60.37	37.48	74.00	23.85	100	236	Peak	Horizontal	
3	2664.24	54.38	17.16	37.22	74.00	-19.62	100	236	Peak	Horizontal	



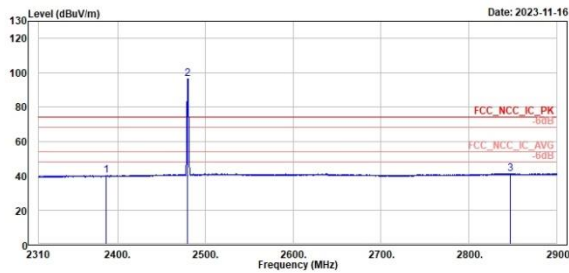
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2370.89	53.54	16.46	37.08	74.00	-20.46	217	360	Peak	Vertical	
2 *	2488.00	93.56	56.08	37.48	74.00	19.56	217	360	Peak	Vertical	
3	2877.58	54.89	17.03	37.86	74.00	-19.11	217	360	Peak	Vertical	

BLE_1M
High Channel (Horizontal) Average

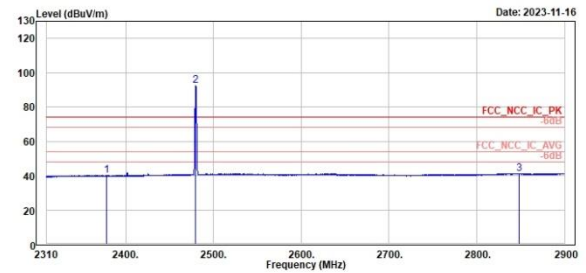

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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.29	39.87	2.77	37.10	54.00	-14.13	100	236	Average	Horizontal		
2 *	2480.00	96.59	59.11	37.48	54.00	42.59	100	236	Average	Horizontal		
3	2847.14	41.23	3.53	37.70	54.00	-12.77	100	236	Average	Horizontal		



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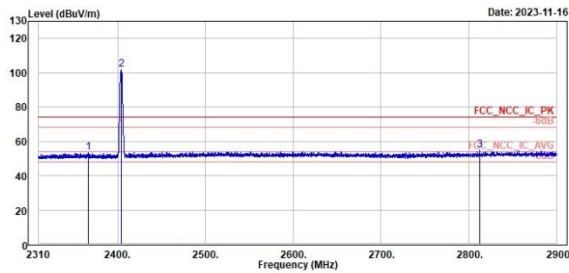
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2378.44	40.06	2.97	37.09	54.00	-13.94	217	360	Average	Vertical		
2 *	2480.00	92.32	54.84	37.48	54.00	38.32	217	360	Average	Vertical		
3	2848.20	41.22	3.51	37.71	54.00	-12.78	217	360	Average	Vertical		

BLE_2M

Low Channel (Horizontal) Peak



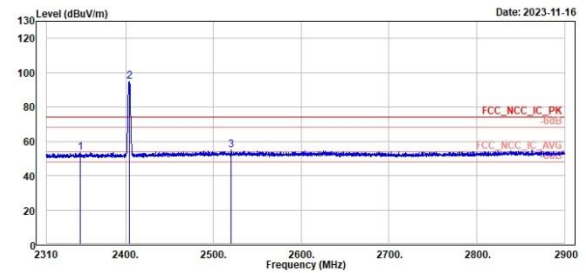
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2366.88	53.27	16.19	37.08	74.00	-20.73	160	191	Peak	Horizontal	
2 *	2404.00	101.76	64.63	37.13	74.00	27.76	160	191	Peak	Horizontal	
3	2812.33	54.64	17.25	37.39	74.00	-19.36	160	191	Peak	Horizontal	



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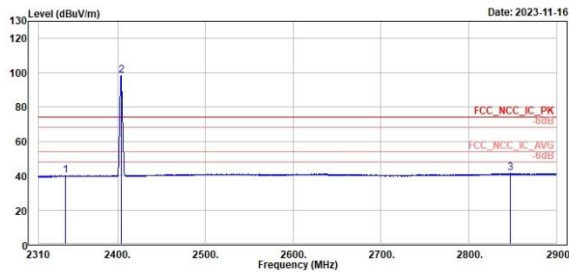
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2348.00	53.24	16.19	37.05	74.00	-20.76	122	269	Peak	Vertical	
2 *	2404.00	95.04	57.91	37.13	74.00	21.04	122	269	Peak	Vertical	
3	2520.28	54.79	17.31	37.48	74.00	-19.21	122	269	Peak	Vertical	

BLE_2M

Low Channel (Horizontal) Average



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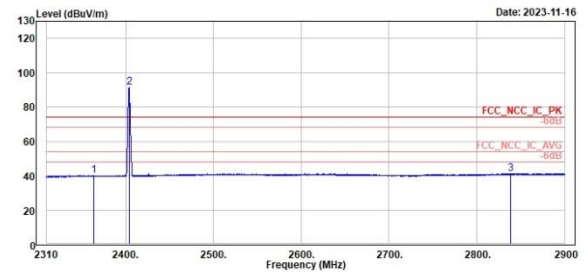


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2340.00	40.13	3.14	36.99	54.00	-13.87	160	191	Average	Horizontal	
2 *	2404.00	98.55	61.42	37.13	54.00	44.55	160	191	Average	Horizontal	
3	2846.90	41.28	3.58	37.70	54.00	-12.72	160	191	Average	Horizontal	

Low Channel (Vertical) Average



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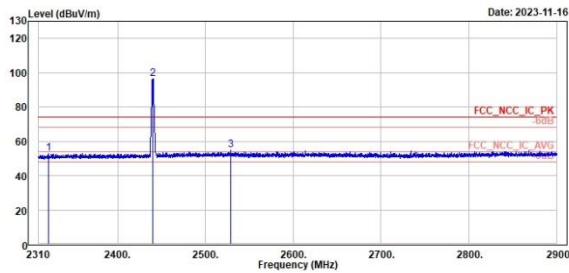
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2364.16	39.99	2.91	37.08	54.00	-14.01	122	269	Average	Vertical	
2 *	2404.00	91.63	54.50	37.13	54.00	37.63	122	269	Average	Vertical	
3	2838.29	41.25	3.63	37.62	54.00	-12.75	122	269	Average	Vertical	

BLE_2M

Middle Channel (Horizontal) Peak



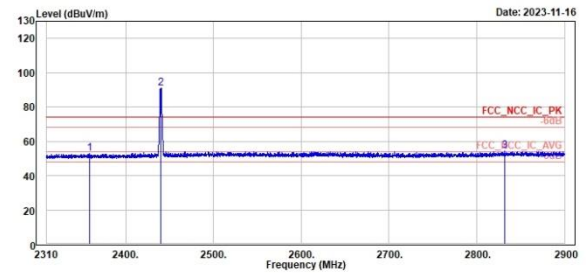
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2321.56	52.97	16.10	36.87	74.00	-21.03	130	193	Peak	Horizontal	
2 *	2440.00	96.61	59.23	37.38	74.00	22.61	130	193	Peak	Horizontal	
3	2528.65	54.66	17.19	37.47	74.00	-19.34	130	193	Peak	Horizontal	



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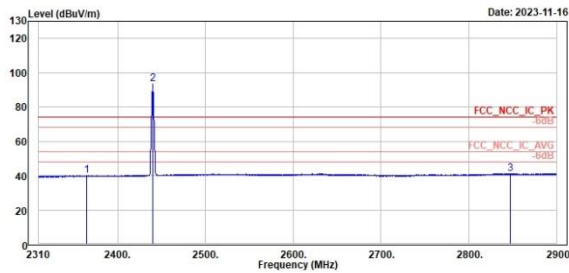
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2358.97	53.01	15.94	37.07	74.00	-20.99	350	271	Peak	Vertical	
2 *	2440.00	91.01	53.63	37.38	74.00	17.01	350	271	Peak	Vertical	
3	2831.56	54.23	16.67	37.56	74.00	-19.77	350	271	Peak	Vertical	

BLE_2M

Middle Channel (Horizontal) Average



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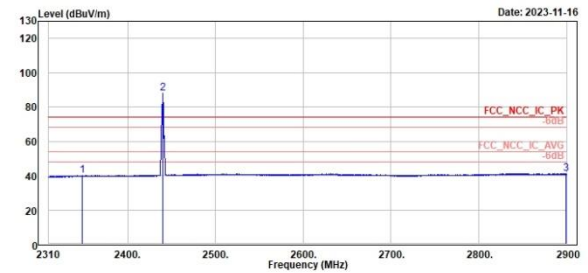


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2364.52	39.99	2.91	37.08	54.00	-14.01	130	193	Average	Horizontal		
2 *	2440.00	93.46	56.88	37.38	54.00	39.46	130	193	Average	Horizontal		
3	2847.61	41.21	3.51	37.70	54.00	-12.79	130	193	Average	Horizontal		

Middle Channel (Vertical) Average



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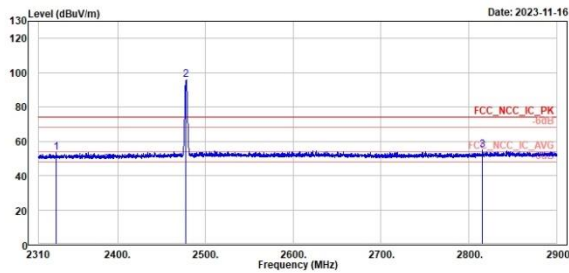
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2348.82	39.91	2.86	37.05	54.00	-14.09	350	271	Average	Vertical		
2 *	2440.00	87.85	50.47	37.38	54.00	33.85	350	271	Average	Vertical		
3	2898.82	41.18	3.21	37.97	54.00	-12.82	350	271	Average	Vertical		

BLE_2M

High Channel (Horizontal) Peak



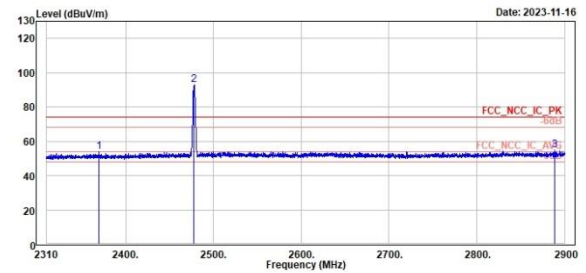
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2330.18	53.30	16.38	36.92	74.00	-20.70	100	234	Peak	Horizontal		
2 *	2478.00	95.95	58.47	37.48	74.00	21.95	100	234	Peak	Horizontal		
3	2815.04	54.68	17.27	37.41	74.00	-19.32	100	234	Peak	Horizontal		



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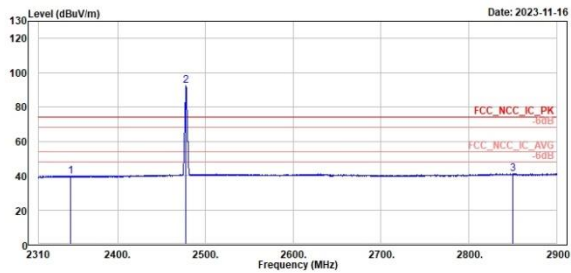
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2369.94	53.75	16.67	37.08	74.00	-20.25	399	20	Peak	Vertical		
2 *	2478.00	92.96	55.48	37.48	74.00	18.96	399	20	Peak	Vertical		
3	2888.32	54.74	16.83	37.91	74.00	-19.26	399	20	Peak	Vertical		

BLE_2M

High Channel (Horizontal) Average



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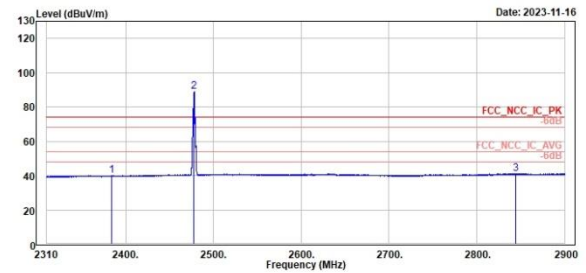


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2346.58	39.78	2.74	37.04	54.00	-14.22	100	234	Average	Horizontal	
2 *	2478.00	92.49	55.01	37.48	54.00	38.49	100	234	Average	Horizontal	
3	2849.85	40.98	3.26	37.72	54.00	-13.02	100	234	Average	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	2383.75	39.97	2.88	37.09	54.00	-14.03	399	20	Average	Vertical	
2 *	2478.00	92.94	51.46	37.48	54.00	38.94	399	20	Average	Vertical	
3	2844.07	41.18	3.51	37.67	54.00	-12.82	399	20	Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

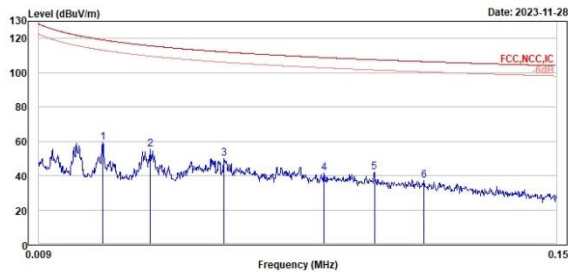
BLE_1M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



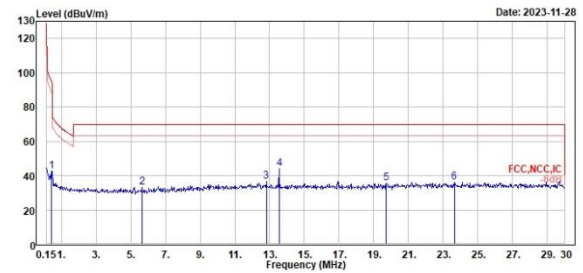
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.03	59.07	40.12	18.95	119.13	-69.06	100	147	Peak	Open		
2	0.04	55.29	36.13	19.16	115.70	-69.41	100	178	Peak	Open		
3	0.06	50.10	31.21	18.89	112.11	-62.01	100	178	Peak	Open		
4	0.09	41.49	23.25	18.24	108.85	-67.36	100	176	Peak	Open		
5	0.10	41.88	23.95	17.93	107.56	-65.68	100	178	Peak	Open		
6	0.11	37.32	19.33	17.99	106.48	-69.16	100	172	Peak	Open		



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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	0.45	42.70	23.88	18.82	94.57	-51.87	100	182	Peak	Open		
2	5.64	33.18	13.42	19.76	69.50	-36.32	100	44	Peak	Open		
3	12.81	36.42	14.67	21.75	69.50	-33.08	100	360	Peak	Open		
4	13.55	43.84	22.04	21.80	69.50	-25.66	100	102	Peak	Open		
5	19.70	35.53	13.31	22.22	69.50	-33.97	100	66	Peak	Open		
6	23.64	36.07	13.80	22.27	69.50	-33.43	100	93	Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

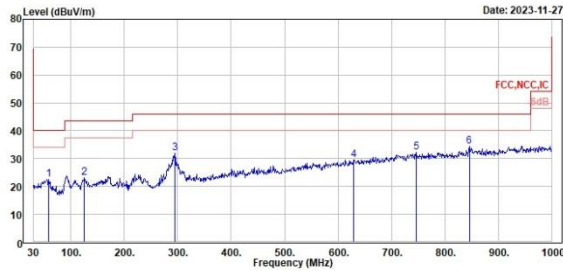
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



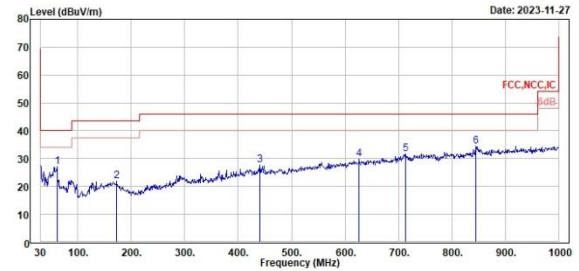
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	58.13	22.47	29.96	-7.49	40.00	-17.53		200	92	Peak	Horizontal	
2	125.06	22.97	32.83	-9.86	43.50	-20.53		200	96	Peak	Horizontal	
3	293.84	31.82	38.66	-6.84	46.00	-14.18		100	120	Peak	Horizontal	
4	628.49	29.50	29.14	0.36	46.00	-16.50		100	86	Peak	Horizontal	
5	745.86	32.14	29.66	2.48	46.00	-13.86		200	134	Peak	Horizontal	
6	845.77	34.39	30.69	3.70	46.00	-11.61		200	242	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	61.04	26.97	34.93	-7.96	40.00	-13.03		200	196	Peak	Vertical	
2	172.59	22.01	29.35	-7.34	43.50	-21.49		100	344	Peak	Vertical	
3	440.31	27.82	31.14	-3.32	46.00	-18.18		200	181	Peak	Vertical	
4	626.55	29.75	29.45	0.30	46.00	-16.25		200	200	Peak	Vertical	
5	713.85	31.74	30.10	1.64	46.00	-14.26		100	74	Peak	Vertical	
6	844.80	34.50	30.78	3.72	46.00	-11.50		200	20	Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

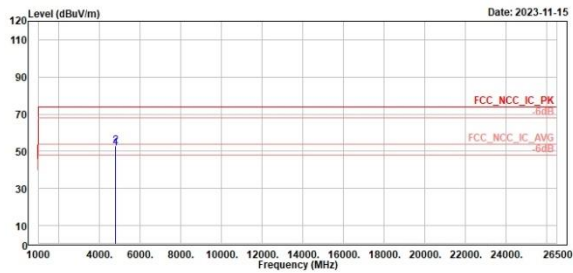
BLE_1M

Low Channel (Horizontal)

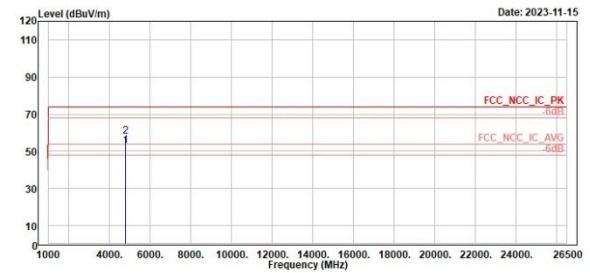
Low Channel (Vertical)



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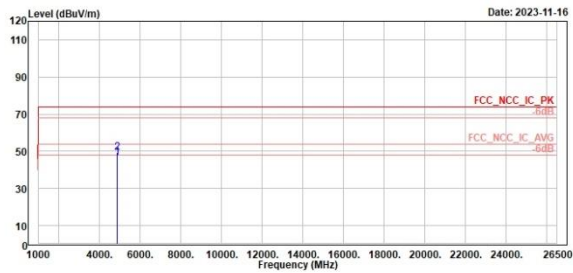
BLE_1M

Middle Channel (Horizontal)

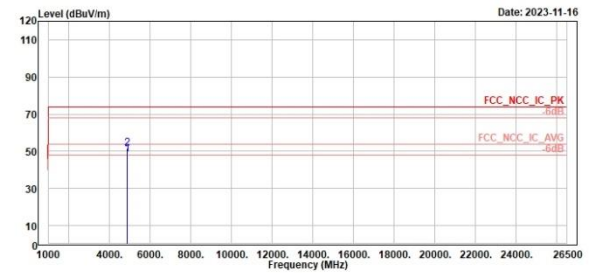
Middle Channel (Vertical)



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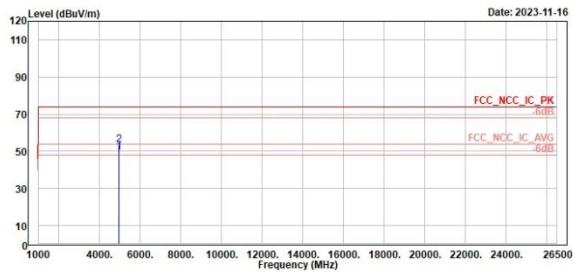
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



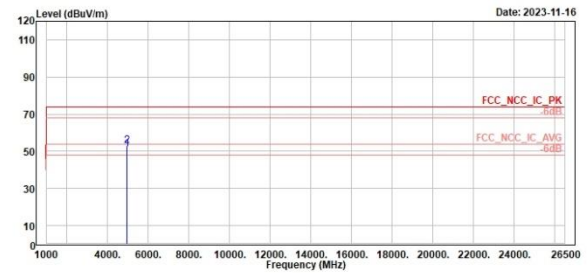
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	49.16	59.38	-10.22	54.00	-4.84	180	232	Average	Horizontal		
2	4960.00	53.31	63.53	-10.22	74.00	-20.69	180	232	Peak	Horizontal		



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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	51.04	61.26	-10.22	54.00	-2.96	180	119	Average	Vertical		
2	4960.00	53.08	63.30	-10.22	74.00	-20.92	180	119	Peak	Vertical		

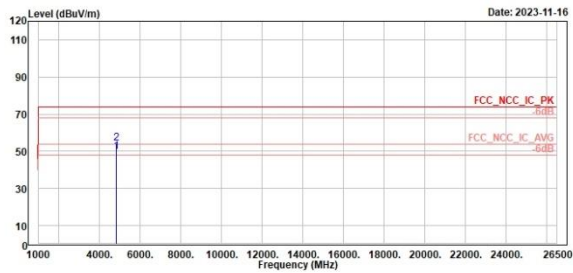
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



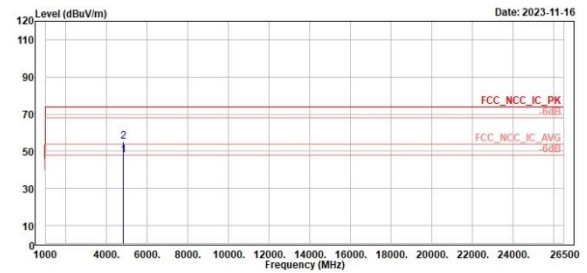
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	49.65	60.83	-10.38	54.00	-4.35	357	265	Average	Horizontal		
2	4880.00	54.41	64.79	-10.38	74.00	-19.59	357	265	Peak	Horizontal		



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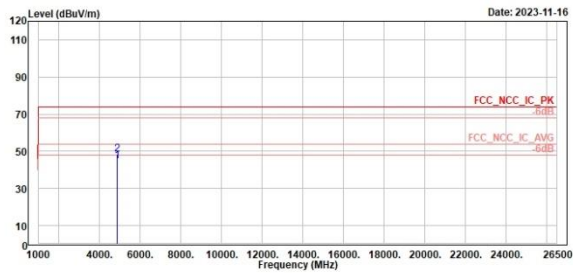
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	48.09	58.47	-10.38	54.00	-5.91	183	153	Average	Vertical		
2	4880.00	55.41	65.79	-10.38	74.00	-18.59	183	153	Peak	Vertical		

BLE_2M

Middle Channel (Horizontal)



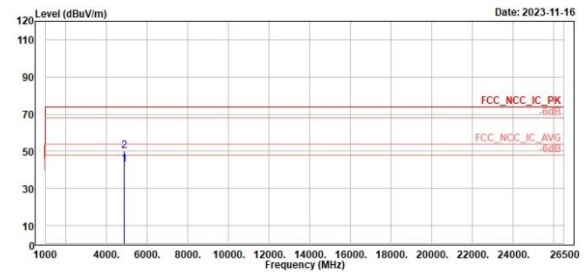
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	44.58	54.83	-10.33	54.00	-9.50	347	267	Average	Horizontal		
2	4880.00	48.39	58.72	-10.33	74.00	-25.61	347	267	Peak	Horizontal		



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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	43.10	53.43	-10.33	54.00	-10.90	180	139	Average	Vertical		
2	4880.00	49.96	60.29	-10.33	74.00	-24.04	180	139	Peak	Vertical		

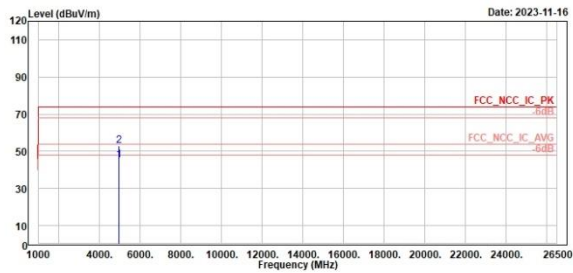
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



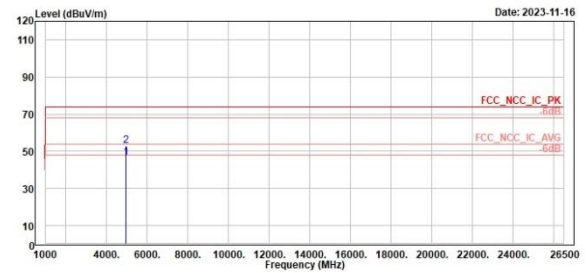
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4956.00	45.19	55.41	-10.22	54.00	-8.81	102	259	Average	Horizontal		
2	4956.00	52.76	62.98	-10.22	74.00	-21.24	102	259	Peak	Horizontal		



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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	4956.00	46.61	56.83	-10.22	54.00	-7.39	122	153	Average	Vertical		
2	4956.00	52.91	63.13	-10.22	74.00	-21.09	122	153	Peak	Vertical		

Mains Conducted Emission, 150kHz ~ 30MHz

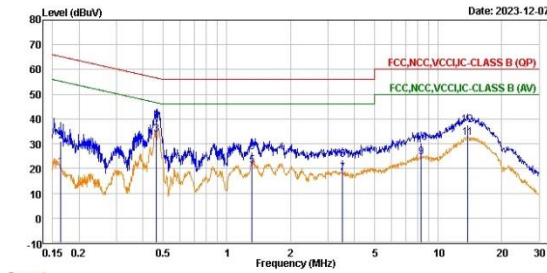
Worst Band

(Line)

(Neutral)



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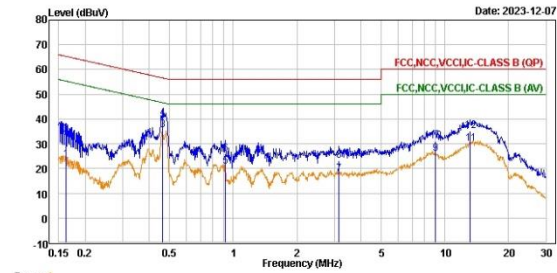


Trace: 1

	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	Level Factor	Line	Limit			
		dBuV	dB	dBuV	dB			
1	0.16	20.49	10.87	9.62	55.25	-34.76 Average	line1	
2	0.16	30.92	21.30	9.62	65.25	-34.33 QP	line1	
3	0.46	33.92	24.29	9.63	46.64	-12.72 Average	line1	
4	0.46	40.02	30.39	9.63	56.64	-16.62 QP	line1	
5	1.31	21.05	11.41	9.64	46.00	-24.95 Average	line1	
6	1.31	26.78	17.14	9.64	56.00	-29.22 QP	line1	
7	3.52	18.11	8.43	9.68	46.00	-27.89 Average	line1	
8	3.52	23.67	13.99	9.68	56.00	-32.33 QP	line1	
9	8.33	24.69	14.95	9.74	50.00	-25.31 Average	line1	
10	8.33	30.27	20.53	9.74	60.00	-29.73 QP	line1	
11	13.72	32.31	22.55	9.76	50.00	-17.69 Average	line1	
12	13.72	37.44	27.68	9.76	60.00	-22.56 QP	line1	



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Trace: 1

	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	Level Factor	Line	Limit			
		dBuV	dB	dBuV	dB			
1	0.16	23.59	13.97	9.62	55.34	-31.75 Average	neutral	
2	0.16	33.75	24.13	9.62	65.34	-31.59 QP	neutral	
3	0.47	35.37	25.74	9.63	46.60	-11.23 Average	neutral	
4	0.47	40.37	30.74	9.63	56.60	-16.23 QP	neutral	
5	0.92	20.79	11.15	9.64	46.00	-25.21 Average	neutral	
6	0.92	26.09	16.45	9.64	56.00	-29.91 QP	neutral	
7	3.15	17.57	7.89	9.68	46.00	-28.43 Average	neutral	
8	3.15	23.19	13.51	9.68	56.00	-32.41 QP	neutral	
9	8.98	25.94	16.17	9.77	50.00	-24.06 Average	neutral	
10	8.98	31.05	21.28	9.77	60.00	-28.95 QP	neutral	
11	13.18	29.99	20.18	9.81	50.00	-20.01 Average	neutral	
12	13.18	35.10	25.29	9.81	60.00	-24.90 QP	neutral	