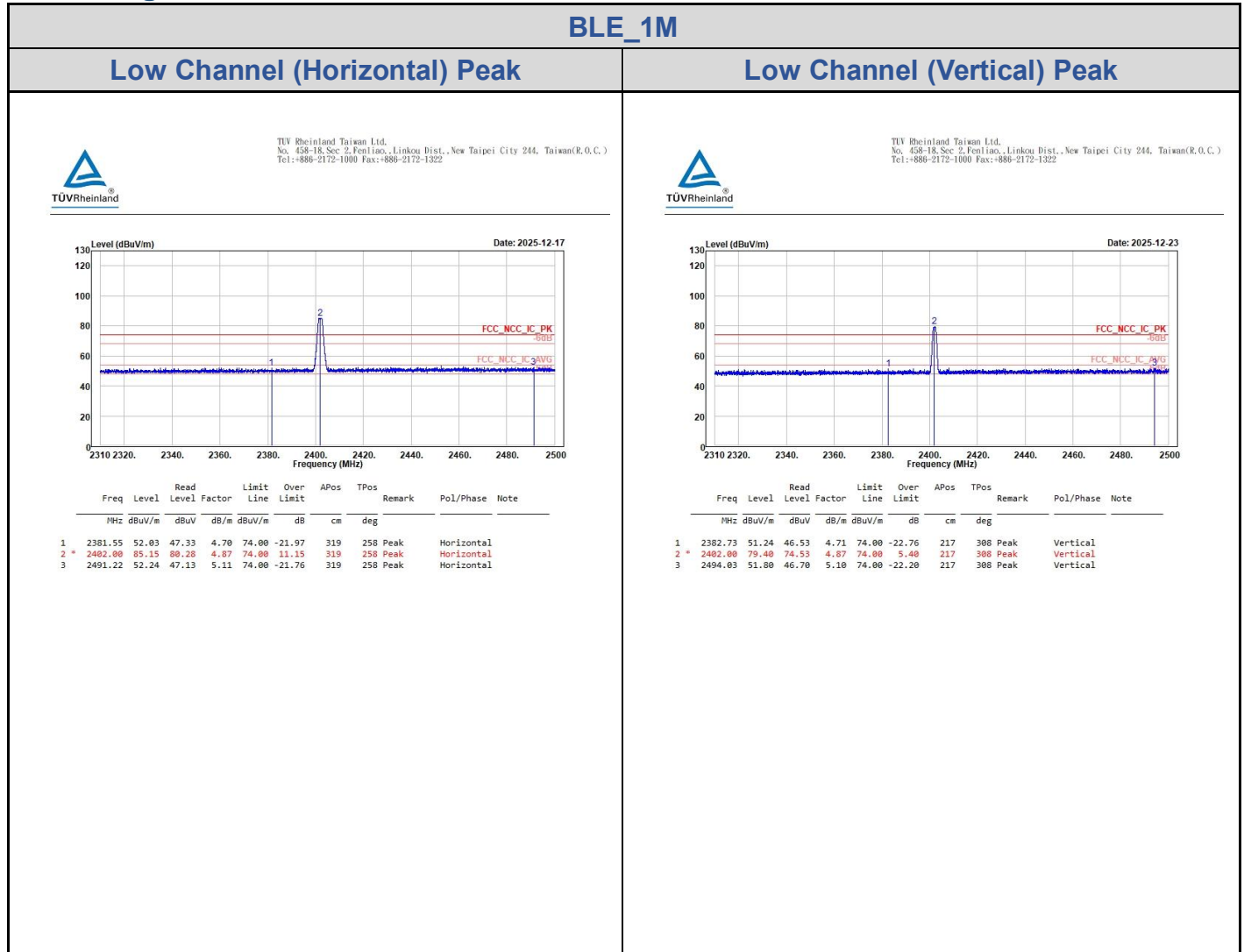


Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

Band Edges, 2.31GHz ~ 2.5GHz

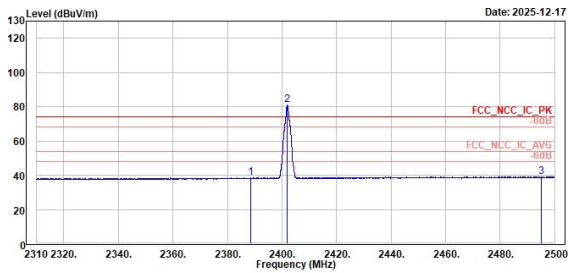


BLE_1M

Low Channel (Horizontal) Average



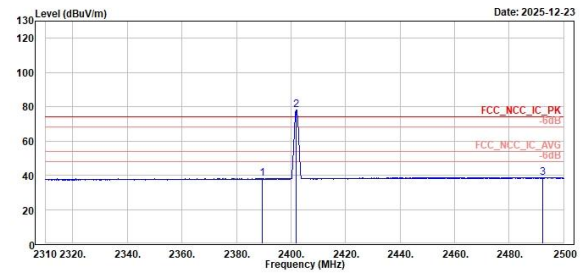
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.66	38.42	33.66	4.76	54.00	-15.58		319	258	Average	Horizontal	
2 *	2402.00	88.89	76.82	4.87	54.00	26.89		319	258	Average	Horizontal	
3	2495.10	39.14	34.04	5.10	54.00	-14.86		319	258	Average	Horizontal	



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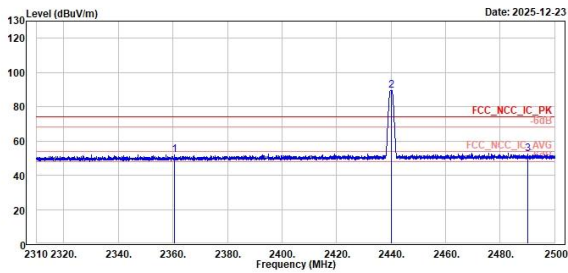
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.38	38.05	33.28	4.77	54.00	-15.95		217	308	Average	Vertical	
2 *	2402.00	78.32	73.45	4.87	54.00	24.32		217	308	Average	Vertical	
3	2492.25	38.79	33.69	5.10	54.00	-15.21		217	308	Average	Vertical	

BLE_1M

Middle Channel (Horizontal) Peak



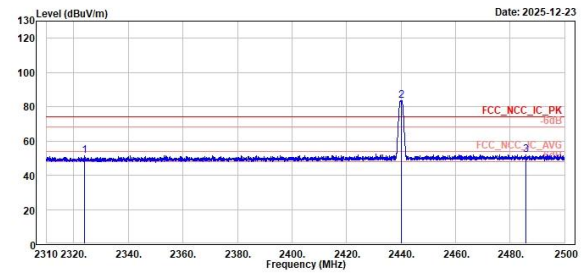
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2360.50	51.79	47.27	4.52	74.00	-22.21	354	272	Peak	Horizontal		
2 *	2440.00	89.53	84.50	5.03	74.00	15.53	354	272	Peak	Horizontal		
3	2490.20	52.28	47.17	5.11	74.00	-21.72	354	272	Peak	Horizontal		



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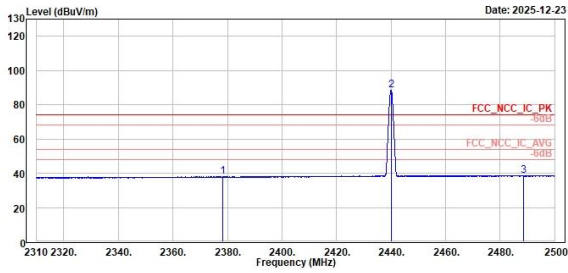
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2323.91	51.60	47.23	4.37	74.00	-22.40	239	307	Peak	Vertical		
2 *	2440.00	83.42	78.39	5.03	74.00	9.42	239	307	Peak	Vertical		
3	2485.86	52.05	46.95	5.10	74.00	-21.95	239	307	Peak	Vertical		

BLE_1M

Middle Channel (Horizontal) Average



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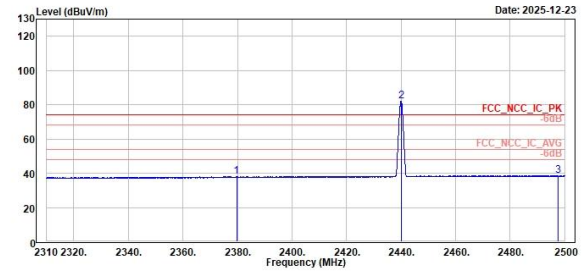


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2378.32	38.04	33.36	4.68	54.00	-15.96	354	272 Average	Horizontal	
2 *	2448.00	88.42	83.39	5.03	54.00	34.42	354	272 Average	Horizontal	
3	2488.56	38.78	33.67	5.11	54.00	-15.22	354	272 Average	Horizontal	

Middle Channel (Vertical) Average



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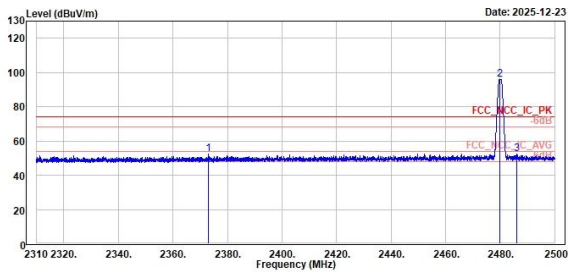
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2379.69	38.06	33.37	4.69	54.00	-15.94	239	307 Average	Vertical	
2 *	2448.00	82.24	77.21	5.03	54.00	28.24	239	307 Average	Vertical	
3	2497.53	38.62	33.51	5.11	54.00	-15.38	239	307 Average	Vertical	

BLE_1M

High Channel (Horizontal) Peak



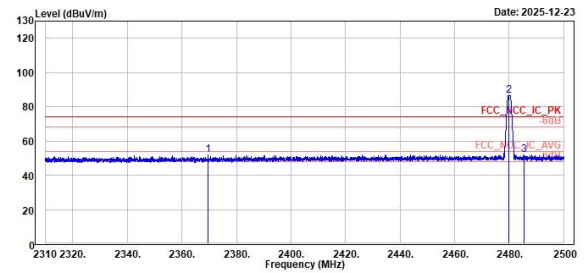
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2373.00	52.20	47.58	4.62	74.00	-21.80		335	252	Peak	Horizontal	
2 *	2480.00	95.86	90.76	5.10	74.00	21.86		335	252	Peak	Horizontal	
3	2486.09	52.55	47.45	5.10	74.00	-21.45		335	252	Peak	Horizontal	



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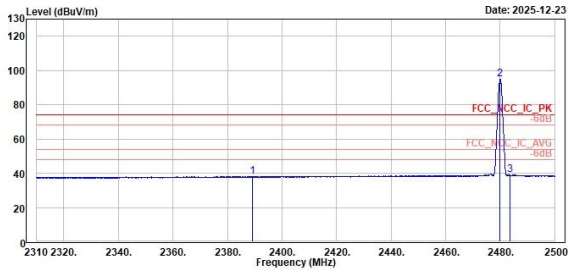
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2369.66	51.72	47.11	4.61	74.00	-22.28		238	307	Peak	Vertical	
2 *	2480.00	86.48	81.38	5.10	74.00	12.48		238	307	Peak	Vertical	
3	2485.52	52.12	47.02	5.10	74.00	-21.88		238	307	Peak	Vertical	

BLE_1M

High Channel (Horizontal) Average



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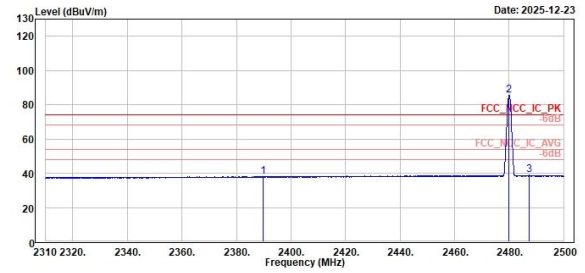


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.12	38.82	33.26	4.76	54.00	-15.98	335	252 Average	Horizontal	
2 *	2488.00	94.85	89.75	5.10	54.00	40.85	335	252 Average	Horizontal	
3	2483.66	38.87	33.77	5.10	54.00	-15.13	335	252 Average	Horizontal	

High Channel (Vertical) Average



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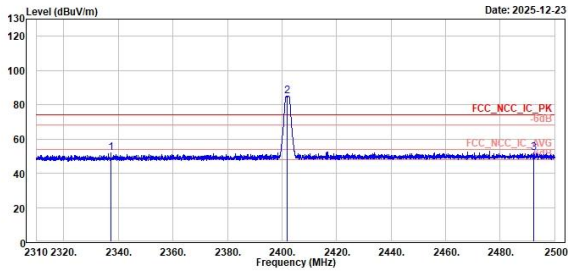
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.76	38.83	33.26	4.77	54.00	-15.97	238	307 Average	Vertical	
2 *	2488.00	95.40	89.30	5.10	54.00	31.40	238	307 Average	Vertical	
3	2487.38	38.82	33.71	5.11	54.00	-15.18	238	307 Average	Vertical	

BLE_2M

Low Channel (Horizontal) Peak



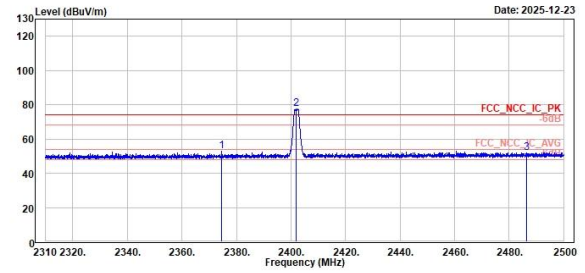
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	2337.17	51.97	47.58	4.39	74.00	-22.83	323	292 Peak	Horizontal	
2 *	2402.00	85.10	80.23	4.87	74.00	11.10	323	292 Peak	Horizontal	
3	2492.36	52.04	46.94	5.10	74.00	-21.96	323	292 Peak	Horizontal	



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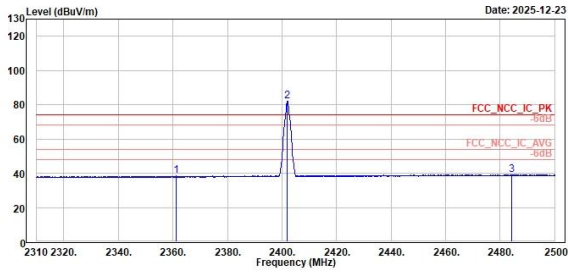
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	2374.52	52.80	48.16	4.64	74.00	-21.20	218	321 Peak	Vertical	
2 *	2402.00	77.51	72.64	4.87	74.00	3.51	218	321 Peak	Vertical	
3	2486.55	52.08	46.97	5.11	74.00	-21.92	218	321 Peak	Vertical	

BLE_2M

Low Channel (Horizontal) Average



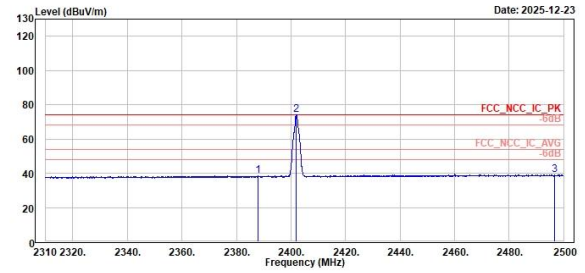
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2361.30	38.44	33.91	4.53	54.00	-15.56	323	292 Average	Horizontal	
2 *	2402.00	82.10	77.23	4.87	54.00	28.10	323	292 Average	Horizontal	
3	2484.19	39.04	33.94	5.10	54.00	-14.96	323	292 Average	Horizontal	



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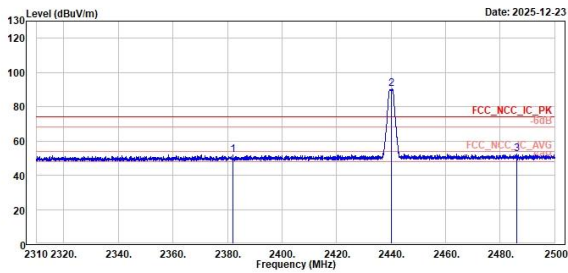
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2368.05	38.34	33.59	4.75	54.00	-15.66	218	321 Average	Vertical	
2 *	2402.00	74.38	69.51	4.87	54.00	20.38	218	321 Average	Vertical	
3	2496.69	39.11	34.00	5.11	54.00	-14.89	218	321 Average	Vertical	

BLE_2M

Middle Channel (Horizontal) Peak



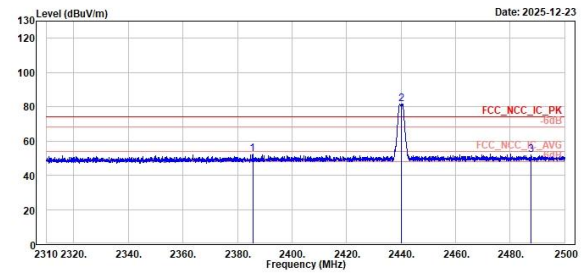
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2382.89	51.92	47.21	4.71	74.00	-22.08		347	253	Peak	Horizontal	
2 *	2440.00	90.21	85.18	5.03	74.00	16.21		347	253	Peak	Horizontal	
3	2485.98	52.36	47.26	5.10	74.00	-21.64		347	253	Peak	Horizontal	



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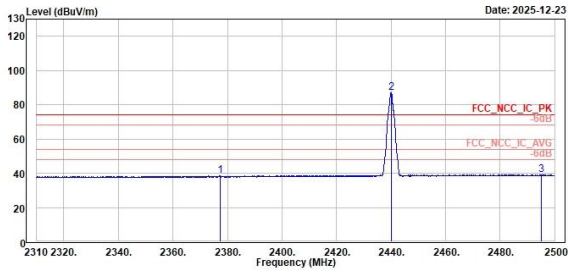
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2385.58	52.31	47.58	4.73	74.00	-21.69		237	322	Peak	Vertical	
2 *	2440.00	81.45	76.42	5.03	74.00	7.45		237	322	Peak	Vertical	
3	2487.76	51.72	46.61	5.11	74.00	-22.28		237	322	Peak	Vertical	

BLE_2M

Middle Channel (Horizontal) Average



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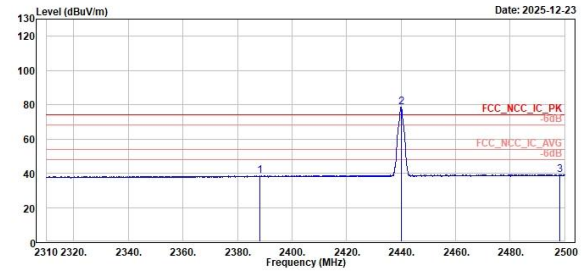


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2377.49	38.46	33.79	4.67	54.00	-15.54		347	253	Average	Horizontal	
2 *	2440.00	87.22	82.19	5.03	54.00	33.22		347	253	Average	Horizontal	
3	2495.21	39.06	33.96	5.10	54.00	-14.94		347	253	Average	Horizontal	

Middle Channel (Vertical) Average



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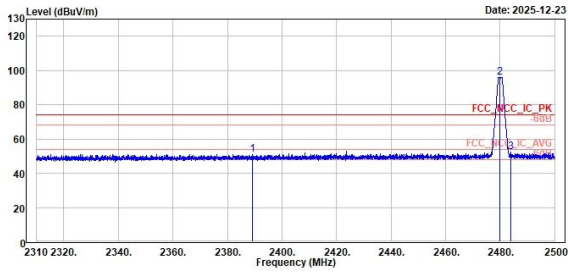
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.24	38.46	33.70	4.76	54.00	-15.54		237	322	Average	Vertical	
2 *	2440.00	78.55	73.52	5.03	54.00	24.55		237	322	Average	Vertical	
3	2498.21	39.21	34.10	5.11	54.00	-14.79		237	322	Average	Vertical	

BLE_2M

High Channel (Horizontal) Peak



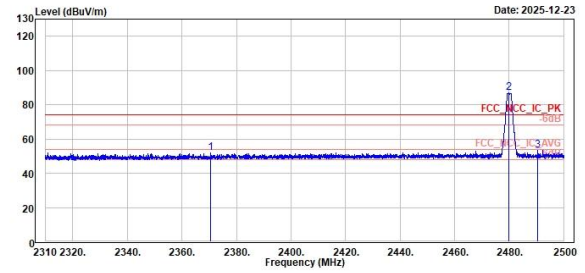
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.27	51.14	46.38	4.76	74.00	-22.86	336	253 Peak	Horizontal	
2 *	2480.00	96.13	91.03	5.10	74.00	22.13	336	253 Peak	Horizontal	
3	2483.81	52.39	47.29	5.10	74.00	-21.61	336	253 Peak	Horizontal	



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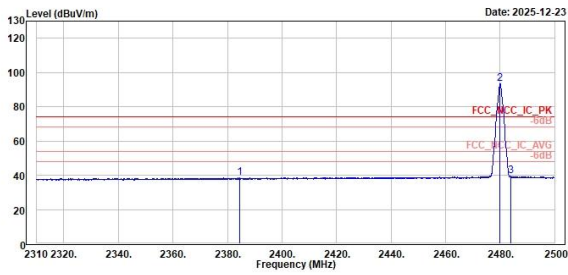
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2370.61	51.90	47.29	4.61	74.00	-22.10	237	307 Peak	Vertical	
2 *	2480.00	86.78	81.68	5.10	74.00	12.78	237	307 Peak	Vertical	
3	2490.54	53.32	48.21	5.11	74.00	-20.68	237	307 Peak	Vertical	

BLE_2M

High Channel (Horizontal) Average



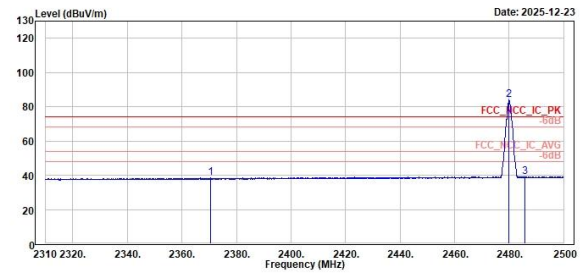
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2384.59	38.42	33.69	4.73	54.00	-15.58		336	253	Average	Horizontal	
2 *	2480.00	99.33	88.23	5.10	54.00	39.33		336	253	Average	Horizontal	
3	2483.85	39.31	34.21	5.10	54.00	-14.69		336	253	Average	Horizontal	



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2370.53	38.51	33.90	4.61	54.00	-15.49		237	307	Average	Vertical	
2 *	2480.00	83.91	78.81	5.10	54.00	29.91		237	307	Average	Vertical	
3	2485.79	39.16	34.06	5.10	54.00	-14.84		237	307	Average	Vertical	

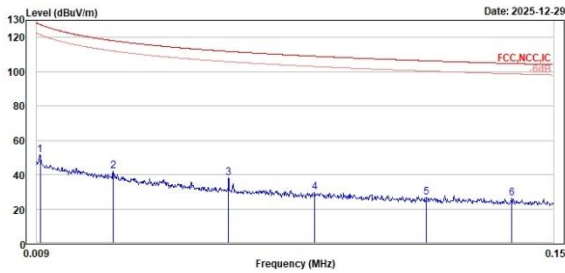
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

Low Channel (Open) 9kHz~150kHz



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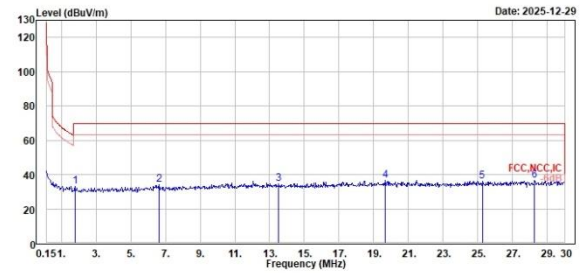


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	51.56	33.45	18.11	127.60	-76.04	100	282 Peak	Open	
2	0.03	42.22	22.21	20.01	118.85	-75.83	100	170 Peak	Open	
3	0.06	38.02	20.02	18.00	111.84	-73.82	100	80 Peak	Open	
4	0.08	29.49	11.37	18.12	109.02	-79.53	100	221 Peak	Open	
5	0.12	26.58	8.47	18.11	106.36	-79.78	100	36 Peak	Open	
6	0.14	26.19	7.93	18.26	104.76	-78.57	100	355 Peak	Open	

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	1.79	33.22	14.40	18.82	69.50	-36.28	100	62 Peak	Open	
2	6.63	33.86	13.11	20.75	69.50	-35.64	100	74 Peak	Open	
3	13.52	34.48	12.93	21.55	69.50	-35.02	100	198 Peak	Open	
4	19.64	36.53	13.74	22.79	69.50	-32.97	100	271 Peak	Open	
5	25.25	36.27	13.12	23.15	69.50	-33.23	100	194 Peak	Open	
6	28.27	36.49	13.43	23.06	69.50	-33.01	100	320 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

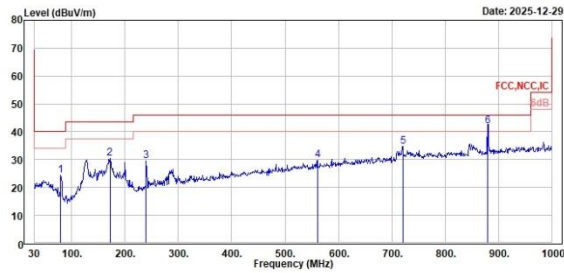
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



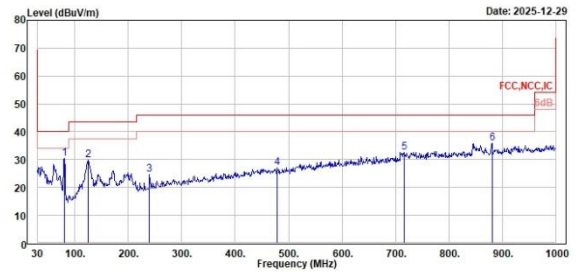
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dBm	dBuV/m	dB	cm	deg		
1	79.47	24.46	35.97	-11.51	40.00	-15.54	161	360 Peak	Horizontal	
2	171.62	30.27	37.21	-6.94	43.50	-13.23	200	278 Peak	Horizontal	
3	239.52	29.41	37.03	-7.62	46.00	-16.59	100	156 Peak	Horizontal	
4	560.59	29.96	30.57	-0.61	46.00	-16.04	137	360 Peak	Horizontal	
5	720.64	34.83	32.33	2.50	46.00	-11.17	100	88 Peak	Horizontal	
6	879.72	41.92	37.26	4.66	46.00	-4.08	100	314 Peak	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dBm	dBuV/m	dB	cm	deg		
1	80.44	30.30	42.10	-11.00	40.00	-9.70	300	139 Peak	Vertical	
2	125.06	29.67	39.07	-9.40	43.50	-13.83	100	198 Peak	Vertical	
3	239.52	24.64	32.26	-7.62	46.00	-21.36	100	205 Peak	Vertical	
4	478.14	27.03	29.36	-2.33	46.00	-18.97	200	10 Peak	Vertical	
5	715.79	32.68	30.20	2.48	46.00	-13.32	200	296 Peak	Vertical	
6	880.69	35.86	31.19	4.67	46.00	-10.14	300	200 Peak	Vertical	

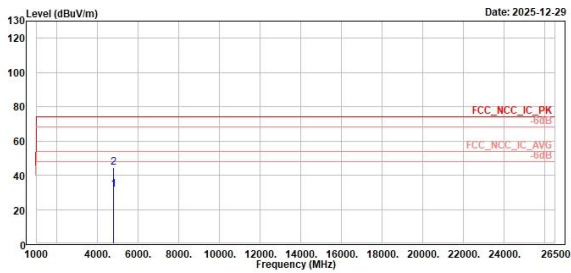
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

BLE_1M

Low Channel (Horizontal)



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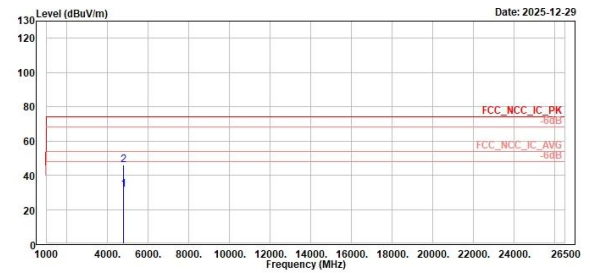


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4804.00	31.54	23.18	8.44	54.00	-22.46	300	111 Average	Horizontal	
2	4804.00	44.61	36.17	8.44	74.00	-29.39	300	111 Peak	Horizontal	

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	4804.00	31.68	23.24	8.44	54.00	-22.32	100	250 Average	Vertical	
2	4804.00	45.87	37.43	8.44	74.00	-28.13	100	250 Peak	Vertical	

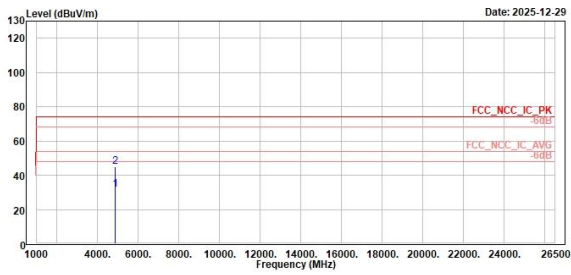
BLE_1M

Middle Channel (Horizontal)

Middle Channel (Vertical)



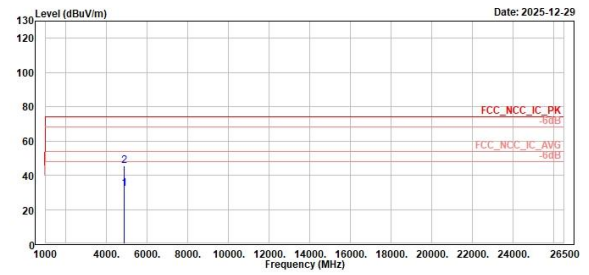
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	4880.00	31.76	23.09	8.67	54.00	-22.24	200	360 Average	Horizontal	
2	4880.00	45.18	36.51	8.67	74.00	-28.82	200	360 Peak	Horizontal	



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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	4880.00	31.89	23.22	8.67	54.00	-22.11	300	161 Average	Vertical	
2	4880.00	45.30	36.63	8.67	74.00	-28.70	300	161 Peak	Vertical	

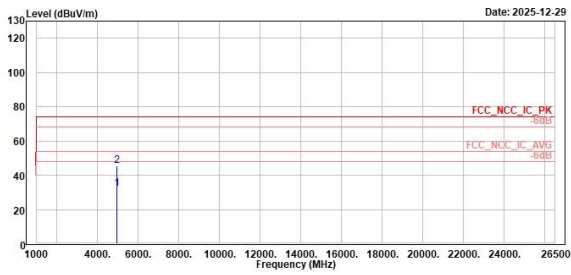
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



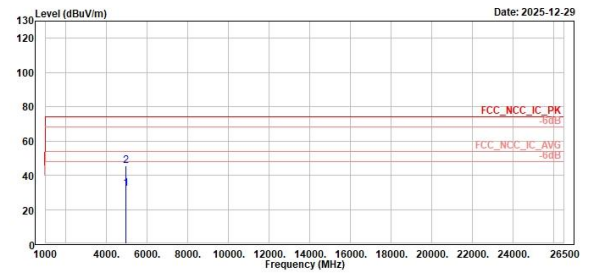
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	4960.00	32.03	23.15	8.88	54.00	-21.97	200	234 Average	Horizontal	
2	4960.00	45.59	36.71	8.88	74.00	-28.41	200	234 Peak	Horizontal	



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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	32.12	23.24	8.88	54.00	-21.88	160	360 Average	Vertical	
2	4960.00	45.47	36.59	8.88	74.00	-28.53	160	360 Peak	Vertical	

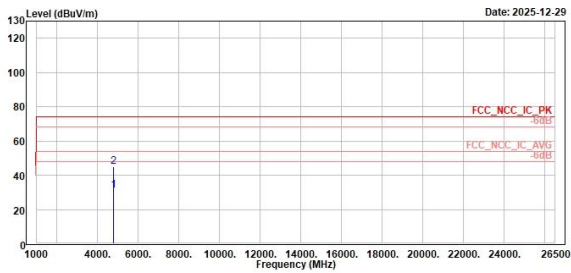
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



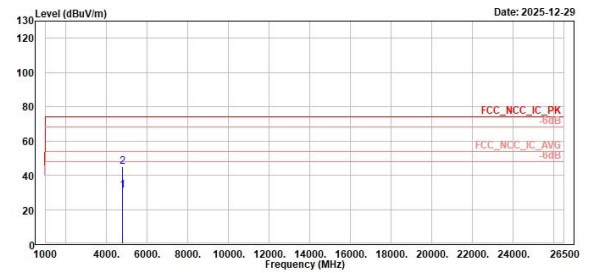
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4884.00	31.30	22.86	8.44	54.00	-22.70	300	181 Average	Horizontal	
2	4884.00	44.99	36.46	8.44	74.00	-29.10	300	181 Peak	Horizontal	



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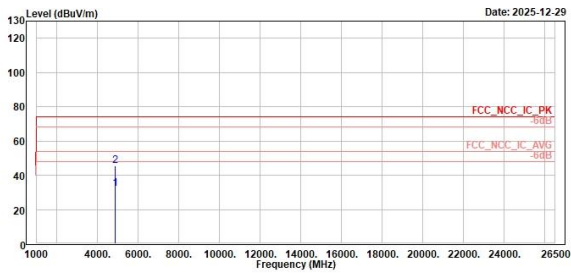
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4884.00	31.31	22.87	8.44	54.00	-22.69	100	125 Average	Vertical	
2	4884.00	45.14	36.70	8.44	74.00	-28.06	100	125 Peak	Vertical	

BLE_2M

Middle Channel (Horizontal)



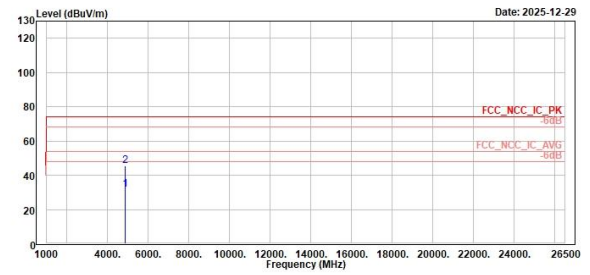
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	4880.00	31.88	23.21	8.67	54.00	-22.12	200	331 Average	Horizontal	
2	4880.00	45.43	36.76	8.67	74.00	-28.57	200	331 Peak	Horizontal	



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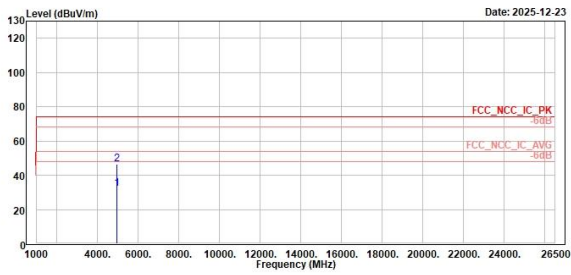
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	4880.00	31.73	23.06	8.67	54.00	-22.27	143	360 Average	Vertical	
2	4880.00	45.36	36.69	8.67	74.00	-28.64	143	360 Peak	Vertical	

BLE_2M

High Channel (Horizontal)



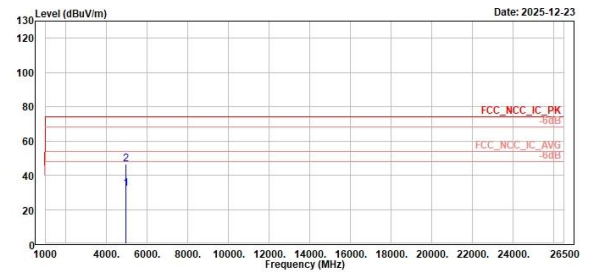
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	4960.00	32.12	23.24	8.88	54.00	-21.88	300	29 Average	Horizontal	
2	4960.00	46.23	37.35	8.88	74.00	-27.77	300	29 Peak	Horizontal	



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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	4960.00	32.18	23.30	8.88	54.00	-21.82	200	235 Average	Vertical	
2	4960.00	46.31	37.43	8.88	74.00	-27.69	200	235 Peak	Vertical	

Mains Conducted Emission, TX 150kHz ~ 30MHz

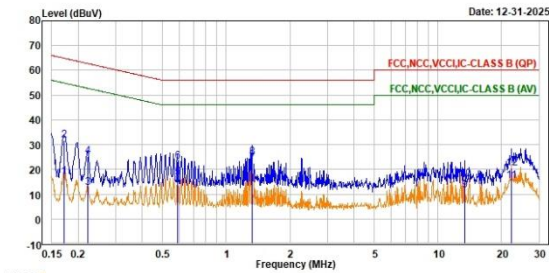
Worst Band

(Line)

(Neutral)



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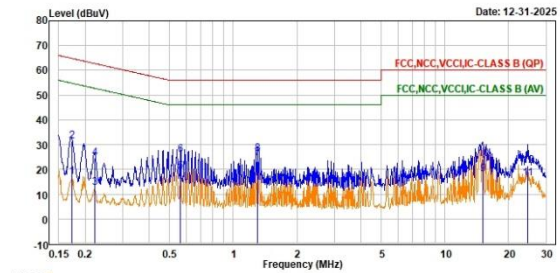


Trace: 1

	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB		
1	0.171	17.02	7.37	9.65	54.92	-37.90	Average	line1
2	0.171	31.87	22.22	9.65	64.92	-33.05	QP	line1
3	0.221	12.71	3.07	9.64	52.77	-40.06	Average	line1
4	0.221	25.38	15.74	9.64	62.77	-37.39	QP	line1
5	0.591	16.52	6.88	9.64	46.00	-29.48	Average	line1
6	0.591	23.32	13.68	9.64	56.00	-32.68	QP	line1
7	1.324	22.35	12.69	9.66	46.00	-23.65	Average	line1
8	1.324	25.83	15.37	9.66	56.00	-30.97	QP	line1
9	13.380	11.42	1.62	9.80	60.00	-38.58	Average	line1
10	13.380	15.87	6.07	9.80	60.00	-44.13	QP	line1
11	22.245	15.38	5.59	9.79	60.00	-34.62	Average	line1
12	22.245	20.43	10.64	9.79	60.00	-39.57	QP	line1



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Trace: 1

	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB		
1	0.172	16.88	7.24	9.64	54.84	-37.96	Average	neutral
2	0.172	31.54	21.90	9.64	64.84	-33.30	QP	neutral
3	0.221	12.49	2.86	9.63	52.77	-40.28	Average	neutral
4	0.221	24.70	15.07	9.63	62.77	-38.07	QP	neutral
5	0.565	19.09	9.45	9.64	46.00	-26.51	Average	neutral
6	0.565	25.80	16.16	9.64	56.00	-30.20	QP	neutral
7	1.305	24.56	14.90	9.66	46.00	-21.44	Average	neutral
8	1.305	26.43	16.77	9.66	56.00	-29.57	QP	neutral
9	15.080	17.92	8.07	9.85	60.00	-32.08	Average	neutral
10	15.080	24.12	14.27	9.85	60.00	-35.88	QP	neutral
11	24.577	16.31	6.43	9.88	60.00	-33.69	Average	neutral
12	24.577	21.58	11.70	9.88	60.00	-38.42	QP	neutral