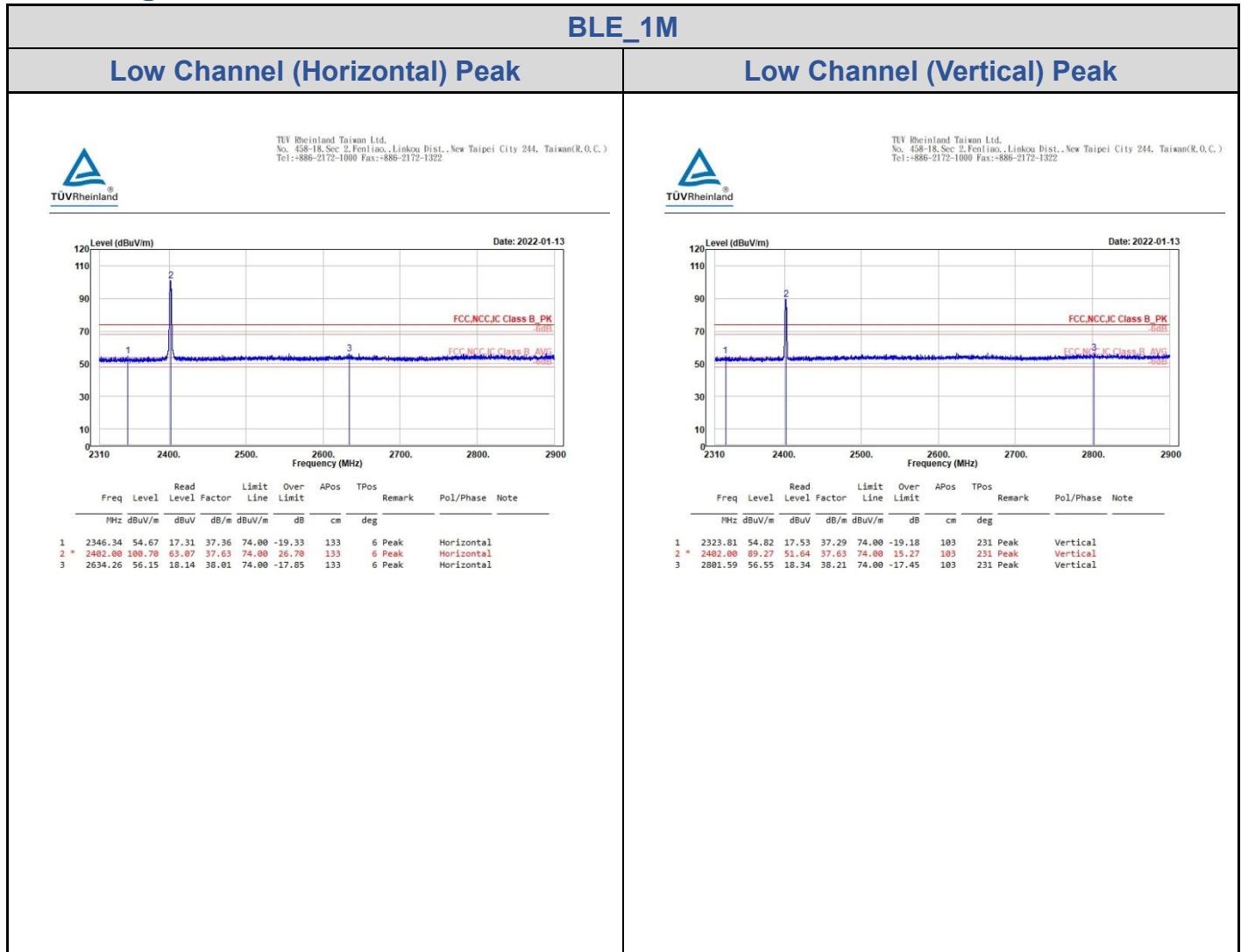


# Appendix B: Test Results of Radiated Spurious Emissions & Mains

## Radiated Emission Test

### Band Edges, 2.31GHz ~ 2.9GHz



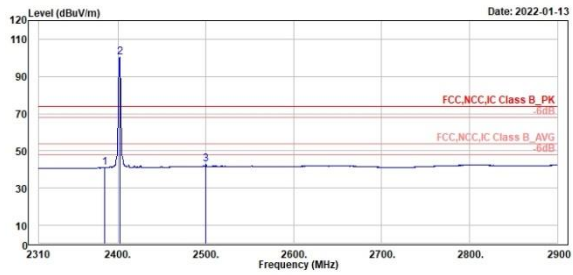
BLE\_1M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



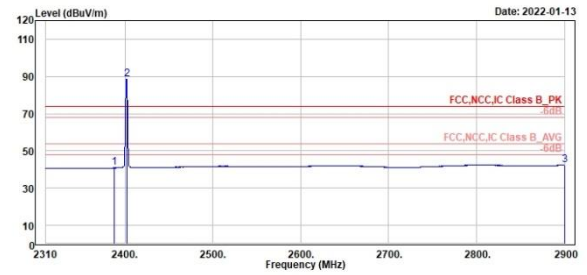
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2384.81	41.19	3.64	37.55	54.00	-12.81	133	6 Average	Horizontal
2 *	2482.00	100.17	62.54	37.63	54.00	46.17	133	6 average	Horizontal
3	2499.98	42.67	4.82	37.85	54.00	-11.33	133	6 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	2387.53	40.88	3.31	37.57	54.00	-13.12	183	231 Average	Vertical
2 *	2482.00	88.62	58.99	37.63	54.00	34.62	183	231 Average	Vertical
3	2900.00	42.43	4.01	38.42	54.00	-11.57	183	231 Average	Vertical

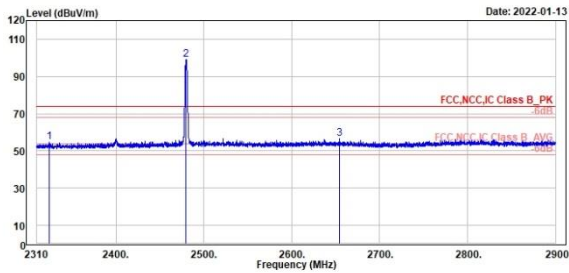
BLE\_1M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



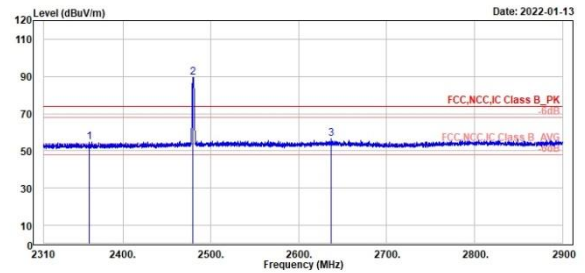
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2324.16	54.61	17.32	37.29	74.00	-19.39	145	360	Peak	Horizontal		
2 *	2488.00	99.20	61.41	37.79	74.00	25.20	145	360	Peak	Horizontal		
3	2654.09	56.42	18.41	38.01	74.00	-17.58	145	360	Peak	Horizontal		



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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	2361.92	54.64	17.20	37.44	74.00	-19.36	303	222	Peak	Vertical		
2 *	2488.00	89.36	51.57	37.79	74.00	15.36	303	222	Peak	Vertical		
3	2636.86	56.39	18.38	38.01	74.00	-17.61	303	222	Peak	Vertical		

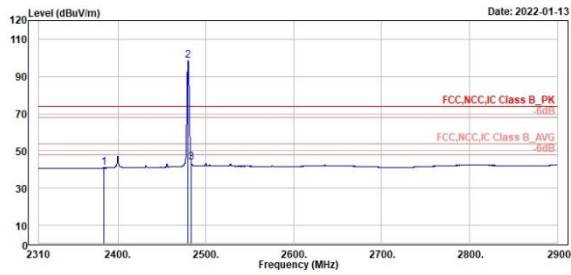
BLE\_1M

High Channel (Horizontal) Average

High Channel (Vertical) Average



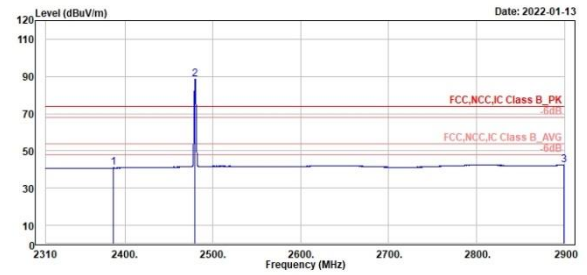
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2384.18	41.01	3.46	37.55	54.00	-12.99	145	360	Average	Horizontal	
2 *	2480.00	98.63	60.84	37.79	54.00	44.63	145	360	average	Horizontal	
3	2483.46	43.79	5.99	37.80	54.00	-10.21	145	360	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	2387.05	40.85	3.28	37.57	54.00	-13.15	303	222	Average	Vertical	
2 *	2480.00	88.69	50.90	37.79	54.00	34.69	303	222	Average	Vertical	
3	2899.65	42.42	4.00	38.42	54.00	-11.58	303	222	Average	Vertical	

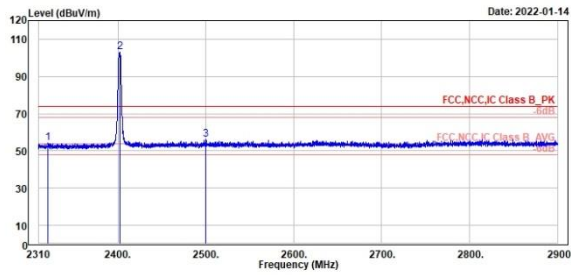
BLE\_2M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



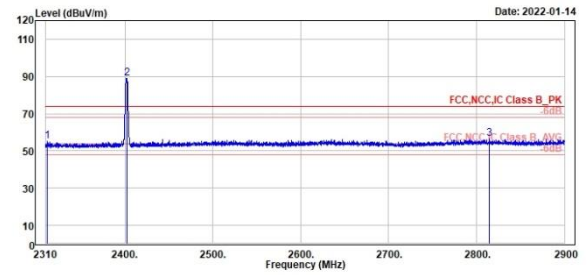
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2320.15	54.18	16.90	37.28	74.00	-19.82	153	360	Peak	Horizontal
2 *	2402.00	102.98	65.35	37.63	74.00	28.98	153	360	Peak	Horizontal
3	2499.74	56.06	18.21	37.85	74.00	-17.94	153	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	2311.53	55.02	17.77	37.25	74.00	-18.98	100	156	Peak	Vertical
2 *	2402.00	88.97	51.34	37.63	74.00	14.97	100	156	Peak	Vertical
3	2814.33	56.51	18.32	38.19	74.00	-17.49	100	156	Peak	Vertical

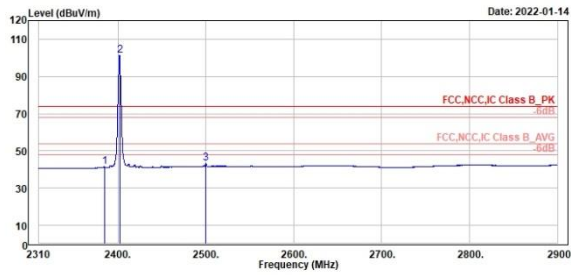
BLE\_2M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



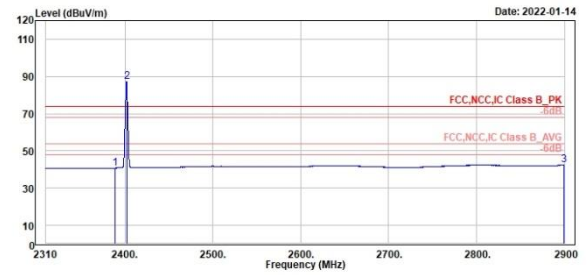
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1	2	3									
Level	Level	Level									
Factor	Factor	Factor									
Limit	Limit	Limit									
Line	Line	Line									
Over	Over	Over									
Limit	Limit	Limit									
APos	APos	APos									
TPos	TPos	TPos									
Remark	Remark	Remark									
Pol/Phase	Pol/Phase	Pol/Phase									
Note	Note	Note									
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2384.93	41.50	3.95	37.55	54.00	-12.50	153	360	Average	Horizontal		
2482.00	101.21	63.58	37.63	54.00	47.21	153	360	average	Horizontal		
2499.98	43.22	5.37	37.85	54.00	-10.78	153	360	Average	Horizontal		



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1	2	3									
Level	Level	Level									
Factor	Factor	Factor									
Limit	Limit	Limit									
Line	Line	Line									
Over	Over	Over									
Limit	Limit	Limit									
APos	APos	APos									
TPos	TPos	TPos									
Remark	Remark	Remark									
Pol/Phase	Pol/Phase	Pol/Phase									
Note	Note	Note									
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2388.71	40.82	3.25	37.57	54.00	-13.18	100	156	Average	Vertical		
2482.00	87.18	49.55	37.63	54.00	33.18	100	156	Average	Vertical		
2899.41	42.39	3.97	38.42	54.00	-11.61	100	156	Average	Vertical		

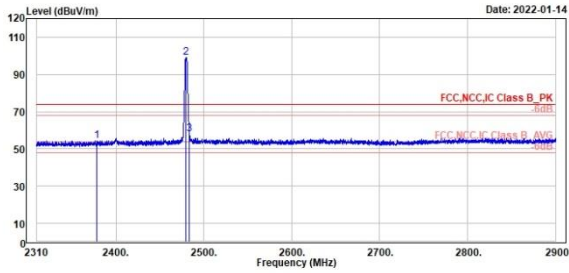
BLE\_2M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



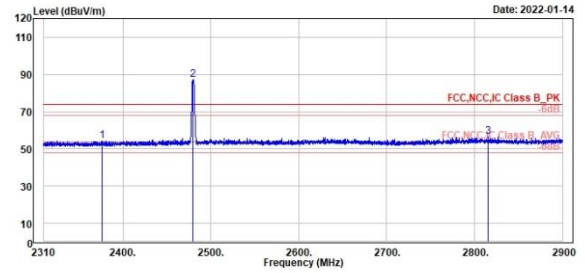
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2377.97	54.36	16.84	37.52	74.00	-19.64	183	351	Peak	Horizontal	
2 *	2480.00	99.16	61.37	37.79	74.00	25.16	183	351	Peak	Horizontal	
3	2483.46	58.12	20.32	37.80	74.00	-15.88	183	351	Peak	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2375.96	54.32	16.82	37.50	74.00	-19.68	348	36	Peak	Vertical	
2 *	2480.00	87.32	49.53	37.79	74.00	13.32	348	36	Peak	Vertical	
3	2815.16	56.73	18.54	38.19	74.00	-17.27	348	36	Peak	Vertical	

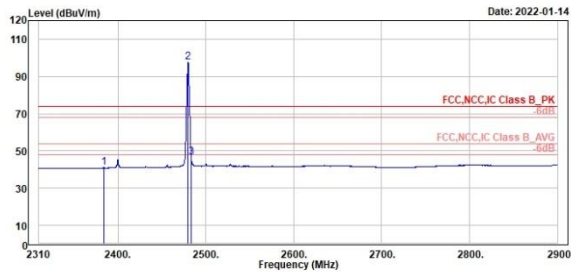
BLE\_2M

High Channel (Horizontal) Average

High Channel (Vertical) Average



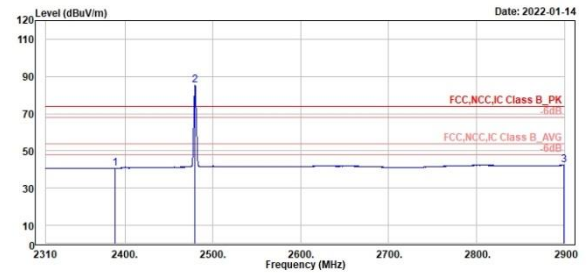
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2383.87	48.98	3.43	37.55	54.00	-13.02	183	351 Average	Horizontal	
2 *	2480.80	97.42	59.63	37.79	54.00	43.42	183	351 Average	Horizontal	
3	2483.46	46.53	8.73	37.80	54.00	-7.47	183	351 Average	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.94	48.79	3.21	37.58	54.00	-13.21	348	36 Average	Vertical	
2 *	2480.80	85.44	47.65	37.79	54.00	31.44	348	36 Average	Vertical	
3	2899.82	42.33	3.91	38.42	54.00	-11.67	348	36 Average	Vertical	



Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

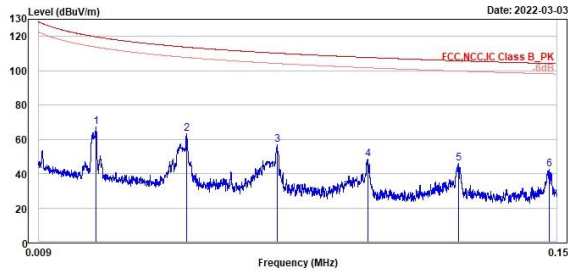
BLE\_2M

Low Channel (Open) 9kHz~150kHz

Low Channel (Open) 150kHz~30MHz



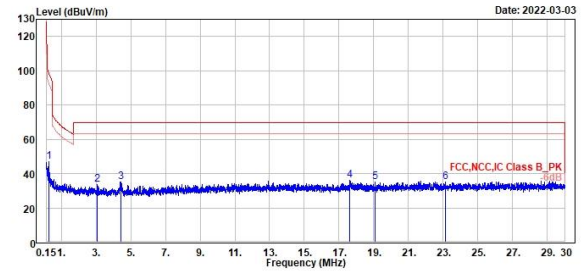
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.02	67.12	48.06	19.06	119.75	-52.63	100	266 QP	Open
2	0.05	63.16	43.80	19.36	113.73	-50.57	100	254 QP	Open
3	0.07	56.65	37.83	18.82	110.21	-53.56	100	269 QP	Open
4	0.10	48.26	29.97	18.29	107.71	-59.45	100	266 QP	Open
5	0.12	46.09	27.75	18.34	105.78	-59.69	100	288 QP	Open
6	0.15	42.66	24.23	18.43	104.19	-61.53	100	247 QP	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	0.29	46.88	27.94	18.94	98.34	-51.46	100	251 QP	Open
2	3.09	33.61	14.09	19.52	69.50	-35.89	100	197 QP	Open
3	4.45	35.32	15.93	19.39	69.50	-34.18	100	185 QP	Open
4	17.60	36.08	14.18	21.90	69.50	-33.42	100	105 QP	Open
5	19.07	35.31	13.32	21.99	69.50	-34.19	100	360 QP	Open
6	23.11	35.30	13.13	22.17	69.50	-34.20	100	321 QP	Open

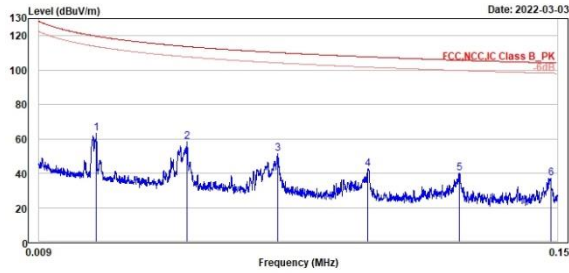
BLE\_2M

Low Channel (Close) 9kHz~150kHz

Low Channel (Close) 150kHz~30MHz



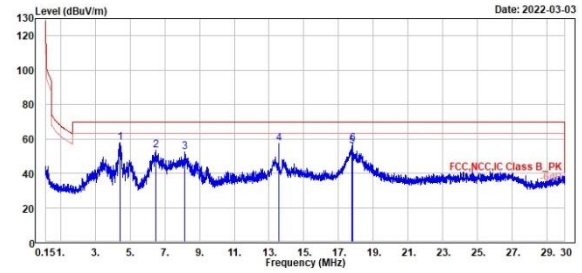
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Freq	Level	Read	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.02	63.13	44.07	19.06	119.75	-56.62	100	189 QP	Close
2	0.05	58.46	39.10	19.36	113.73	-55.27	100	221 QP	Close
3	0.07	51.41	32.59	18.82	110.21	-58.00	100	212 QP	Close
4	0.10	42.54	24.25	18.29	107.73	-65.19	100	224 QP	Close
5	0.12	39.84	21.50	18.34	105.78	-65.94	100	189 QP	Close
6	0.15	37.06	18.63	18.43	104.18	-67.12	100	206 QP	Close



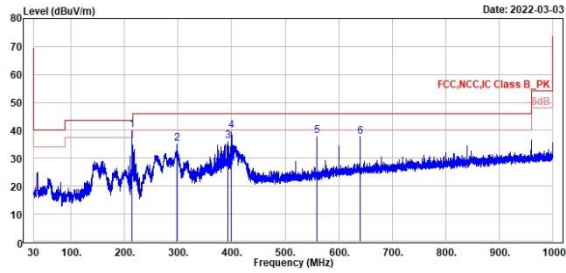
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Freq	Level	Read	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4.41	57.60	38.20	19.40	69.50	-11.90	100	48 QP	Close
2	6.47	53.44	33.49	19.95	69.50	-16.06	100	256 QP	Close
3	8.16	52.52	31.88	20.64	69.50	-16.90	100	236 QP	Close
4	13.56	57.29	35.67	21.62	69.50	-12.21	100	117 QP	Close
5	17.75	55.67	33.77	21.90	69.50	-13.83	100	333 QP	Close
6	17.81	57.19	35.28	21.91	69.50	-12.31	100	333 QP	Close

**Spurious Emissions, Tx Mode, 30MHz ~ 1GHz**
**BLE\_2M**
**Low Channel (Horizontal)**
**Low Channel (Vertical)**

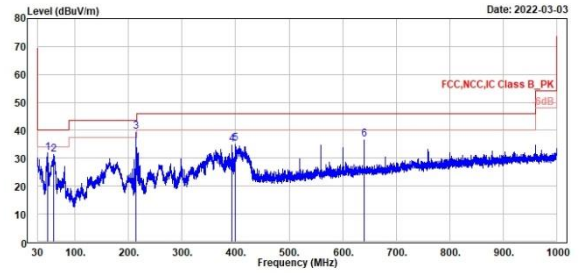

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Freq	Level	Read	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	214.40	40.04	50.94	-10.90	43.50	-3.46	100	5 QP	Horizontal
2	297.62	35.33	42.34	-7.01	46.00	-10.67	100	290 QP	Horizontal
3	392.49	36.10	41.23	-5.13	46.00	-9.90	200	156 QP	Horizontal
4	399.96	39.74	44.86	-5.12	46.00	-6.26	200	150 QP	Horizontal
5	560.01	38.16	40.88	-2.72	46.00	-7.84	113	360 QP	Horizontal
6	640.03	37.86	38.77	-0.91	46.00	-8.14	100	148 QP	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	48.53	32.09	39.93	-7.04	40.00	-7.91	100	1 QP	Vertical
2	60.26	31.35	40.02	-8.67	40.00	-8.65	100	228 QP	Vertical
3	214.40	39.44	50.34	-10.90	43.50	-4.06	100	212 QP	Vertical
4	392.49	35.04	40.17	-5.13	46.00	-10.96	100	172 QP	Vertical
5	399.96	35.41	40.53	-5.12	46.00	-10.59	100	147 QP	Vertical
6	640.03	36.81	37.72	-0.91	46.00	-9.19	145	360 QP	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

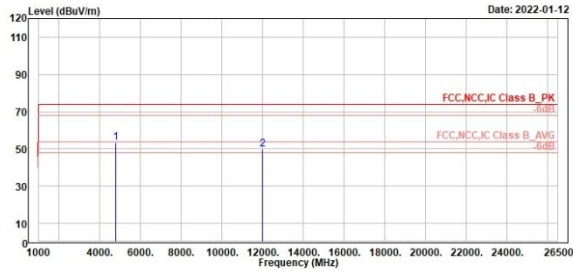
BLE\_1M

Low Channel (Horizontal)

Low Channel (Vertical)



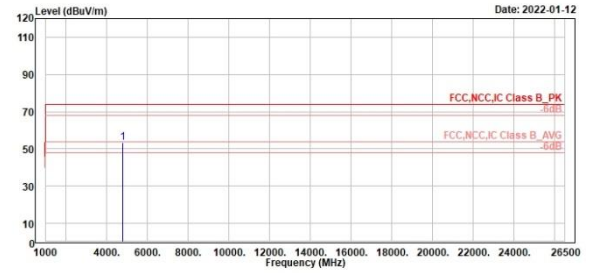
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4884.00	53.58	63.45	-9.87	74.00	-20.42	153	360	Peak Horizontal
2	12010.00	49.57	49.81	-0.24	74.00	-24.43	280	271	Peak Horizontal



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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	53.21	63.08	-9.87	74.00	-20.79	350	360	Peak Vertical

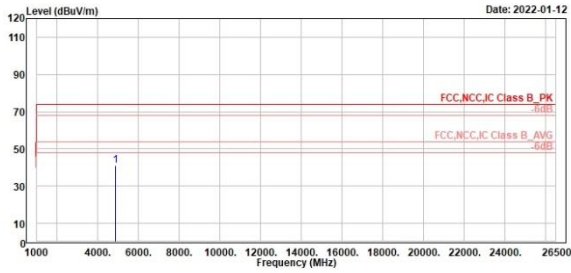
BLE\_1M

Middle Channel (Horizontal)

Middle Channel (Vertical)



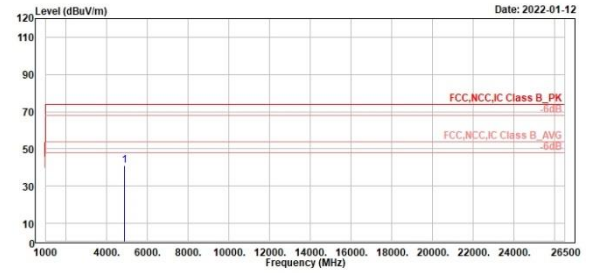
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 4880.00	41.03	50.82	-9.79	74.00	-32.97	100	351	Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 4880.00	40.91	50.70	-9.79	74.00	-33.09	100	360	Peak	Vertical	

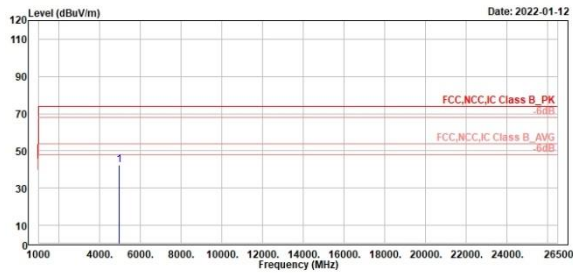
BLE\_1M

High Channel (Horizontal)

High Channel (Vertical)



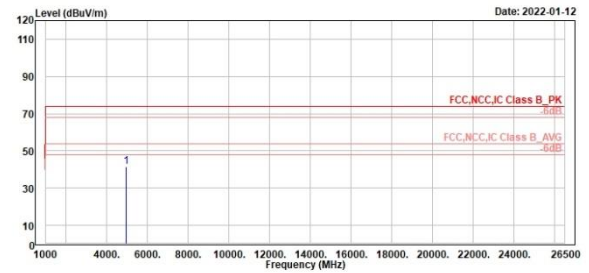
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 4960.00	42.65	52.19	-9.54	74.00	-31.35	219	33	Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 4960.00	41.73	51.27	-9.54	74.00	-32.27	190	360	Peak	Vertical	

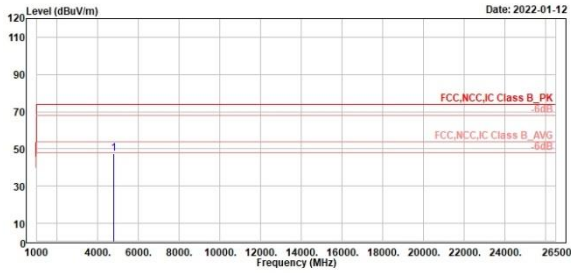
BLE\_2M

Low Channel (Horizontal)

Low Channel (Vertical)



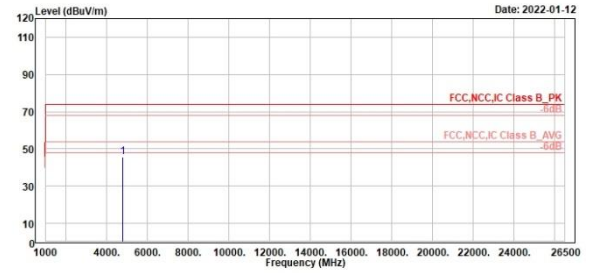
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1	4884.00	47.29	57.16	-9.87	74.00	-26.71	135	360	Peak	Horizontal
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1	4884.00	45.58	55.45	-9.87	74.00	-28.42	300	233	Peak	Vertical
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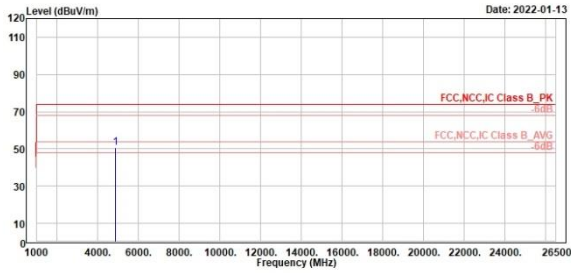
BLE\_2M

Middle Channel (Horizontal)

Middle Channel (Vertical)



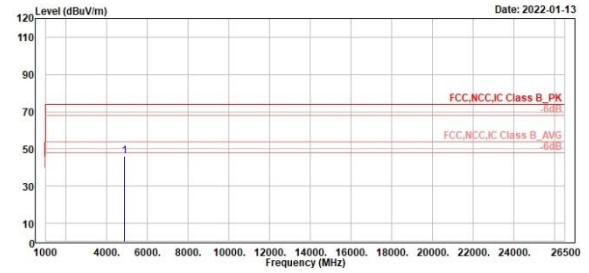
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1	4880.00	50.53	60.32	-9.79	74.00	-23.47	114	360	Peak	Horizontal
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1	4880.00	45.91	55.70	-9.79	74.00	-28.09	374	360	Peak	Vertical
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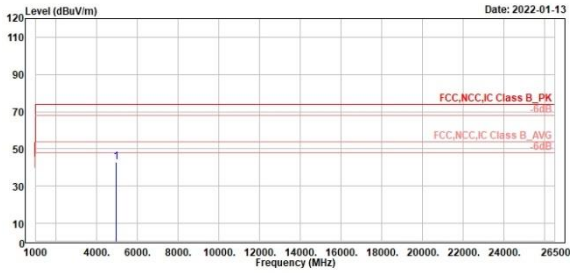
BLE\_2M

High Channel (Horizontal)

High Channel (Vertical)



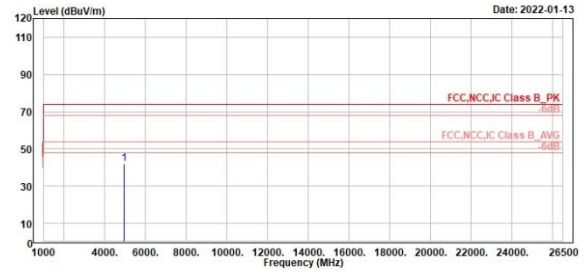
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1	4960.00	42.81	52.35	-9.54	74.00	-31.19	275	55	Peak	Horizontal
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1	4960.00	41.82	51.36	-9.54	74.00	-32.18	100	44	Peak	Vertical
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Mains Conducted Emission, Tx Mode (Adapter) 150kHz ~ 30MHz

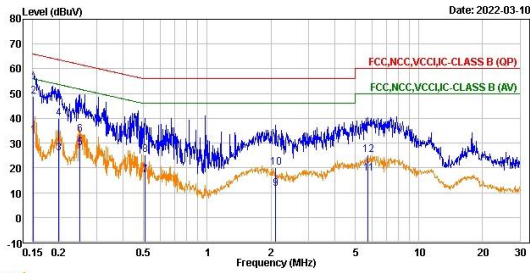
Worst Band

(Line)

(Neutral)



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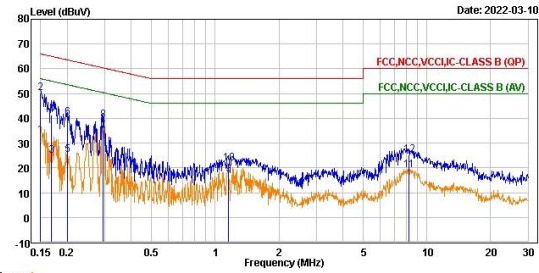


Trace: 1

Line	Freq (MHz)	Level (dBuV)	Read Level (dBuV)	Factor (dB)	Limit Line (dBuV)	Over Limit (dB)	Remark	Pol/Phase	Note
1	0.15	33.01	23.32	9.69	55.96	-22.95	Average	line1	
2	0.15	49.03	39.34	9.69	65.96	-16.93	QP	line1	
3	0.20	25.94	16.26	9.68	53.64	-27.70	Average	line1	
4	0.20	39.86	30.18	9.68	63.64	-23.78	QP	line1	
5	0.25	28.01	18.33	9.68	51.78	-23.77	Average	line1	
6	0.25	33.54	23.86	9.68	61.78	-28.24	QP	line1	
7	0.51	17.00	7.32	9.68	46.00	-29.00	Average	line1	
8	0.51	25.24	15.56	9.68	56.00	-30.76	QP	line1	
9	2.11	11.52	1.80	9.72	46.00	-34.48	Average	line1	
10	2.11	20.09	10.37	9.72	56.00	-35.91	QP	line1	
11	5.76	17.85	8.08	9.77	50.00	-32.15	Average	line1	
12	5.76	25.25	15.48	9.77	60.00	-34.75	QP	line1	



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Trace: 1

Line	Freq (MHz)	Level (dBuV)	Read Level (dBuV)	Factor (dB)	Limit Line (dBuV)	Over Limit (dB)	Remark	Pol/Phase	Note
1	0.15	33.05	23.38	9.67	56.00	-22.95	Average	neutral	
2	0.15	50.06	40.39	9.67	66.00	-15.94	QP	neutral	
3	0.17	24.95	15.28	9.67	55.01	-30.06	Average	neutral	
4	0.17	41.24	31.57	9.67	65.01	-23.77	QP	neutral	
5	0.20	25.38	15.72	9.66	53.60	-28.22	Average	neutral	
6	0.20	40.21	30.55	9.66	63.60	-23.39	QP	neutral	
7	0.30	34.67	25.02	9.65	50.37	-15.70	Average	neutral	
8	0.30	39.34	29.69	9.65	60.37	-21.03	QP	neutral	
9	1.15	17.51	7.85	9.66	46.00	-28.49	Average	neutral	
10	1.15	21.79	12.13	9.66	56.00	-34.21	QP	neutral	
11	8.21	19.08	9.31	9.77	50.00	-30.92	Average	neutral	
12	8.21	25.14	15.37	9.77	60.00	-34.86	QP	neutral	

Mains Conducted Emission, Tx Mode (POE) 150kHz ~ 30MHz

Worst Band

(Line)

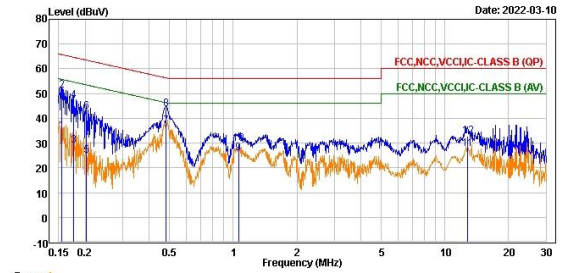
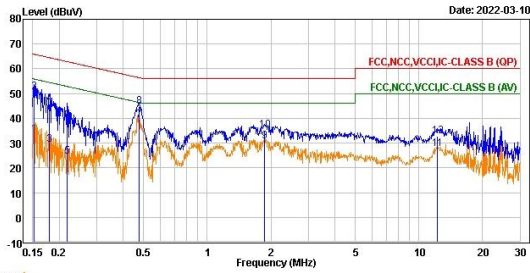
(Neutral)



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Trace: 1

Line	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	33.60	23.91	9.69	55.92	-22.32	Average	line1	
2	0.15	50.71	41.02	9.69	65.92	-15.21	QP	line1	
3	0.18	29.32	19.64	9.68	54.51	-25.19	Average	line1	
4	0.18	45.95	36.27	9.68	64.51	-18.56	QP	line1	
5	0.22	24.52	14.84	9.68	52.90	-28.38	Average	line1	
6	0.22	38.83	29.15	9.68	62.90	-24.07	QP	line1	
7	0.48	39.37	29.69	9.68	46.48	-7.03	Average	line1	
8	0.48	44.62	34.94	9.68	56.48	-11.78	QP	line1	
9	1.87	30.73	21.01	9.72	46.00	-15.27	Average	line1	
10	1.87	35.05	25.33	9.72	56.00	-20.95	QP	line1	
11	12.17	27.55	17.74	9.81	50.00	-22.45	Average	line1	
12	12.17	32.75	22.94	9.81	60.00	-27.25	QP	line1	

Trace: 1

Line	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	34.68	25.01	9.67	55.75	-21.07	Average	neutral	
2	0.15	51.17	41.50	9.67	65.75	-14.58	QP	neutral	
3	0.18	29.15	19.49	9.66	54.63	-25.48	Average	neutral	
4	0.18	46.98	37.32	9.66	64.63	-17.65	QP	neutral	
5	0.20	24.83	15.17	9.66	53.52	-28.69	Average	neutral	
6	0.20	42.77	33.11	9.66	63.52	-20.75	QP	neutral	
7	0.48	36.88	27.22	9.66	46.31	-9.43	Average	neutral	
8	0.48	43.65	33.99	9.66	56.31	-12.66	QP	neutral	
9	1.06	26.08	16.42	9.66	46.00	-19.92	Average	neutral	
10	1.06	29.57	19.91	9.66	56.00	-26.43	QP	neutral	
11	12.79	27.78	17.96	9.82	50.00	-22.22	Average	neutral	
12	12.79	32.89	23.07	9.82	60.00	-27.11	QP	neutral	