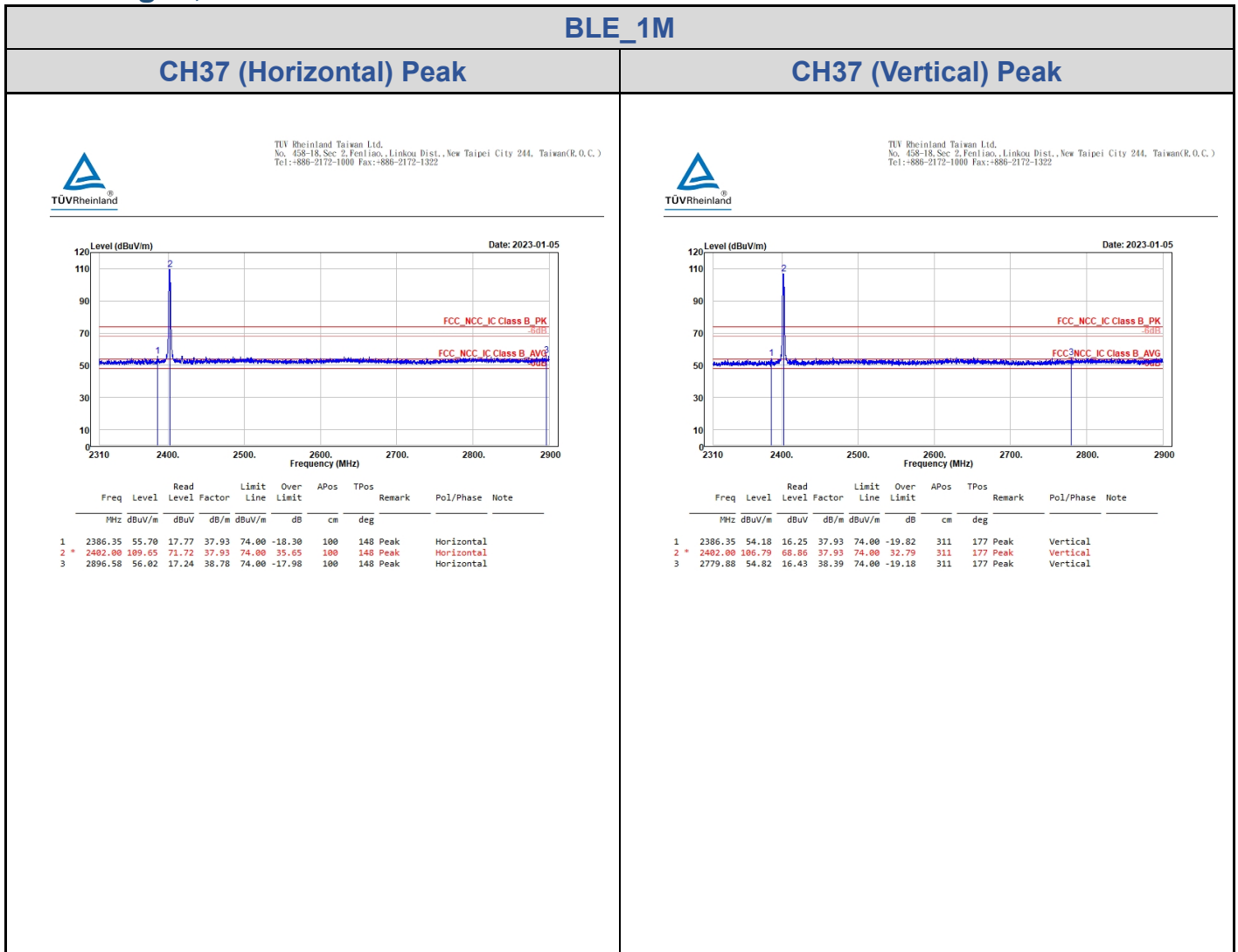


Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test for PCB Antenna

ECC Mode

Band Edges, 2.31GHz ~ 2.9GHz



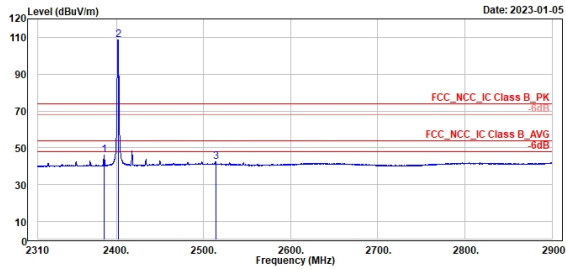
BLE_1M

CH37 (Horizontal) Average

CH37 (Vertical) Average



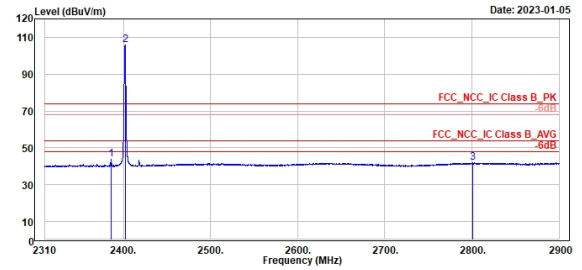
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1	2	3
2385.87	2402.00	2513.90
46.28	108.65	42.59
8.35	70.72	4.30
37.93	37.93	38.29
54.00	54.00	54.00
-7.72	54.65	-11.41
100	100	100
148	148	148
Average	Average	Average
Horizontal	Horizontal	Horizontal



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1	2	3
2385.99	2402.00	2801.00
43.62	105.82	41.89
5.69	67.89	3.31
37.93	37.93	38.58
54.00	54.00	54.00
-10.38	51.82	-12.11
311	311	311
177	177	177
Average	Average	Average
Vertical	Vertical	Vertical

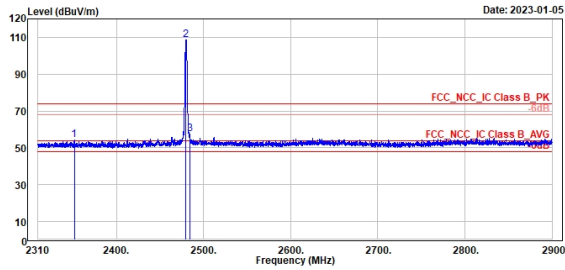
BLE_1M

CH39 (Horizontal) Peak

CH39 (Vertical) Peak



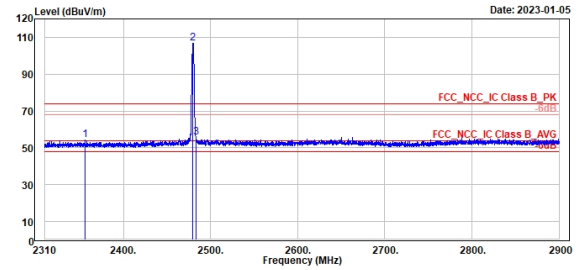
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1	2	3	Read Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2351.77	54.35	16.39	37.96	74.00	-19.65	126	306	Peak	Horizontal	
2 *	2480.00	106.71	70.40	38.31	74.00	34.71	126	306	Peak	Horizontal	
3	2484.29	57.46	19.15	38.31	74.00	-16.54	126	306	Peak	Horizontal	



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1	2	3	Read 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	2356.26	54.08	16.13	37.95	74.00	-19.92	292	170	Peak	Vertical	
2 *	2480.00	106.77	68.46	38.31	74.00	32.77	292	170	Peak	Vertical	
3	2483.46	55.79	17.48	38.31	74.00	-18.21	292	170	Peak	Vertical	

BLE_1M

CH39 (Horizontal) Average

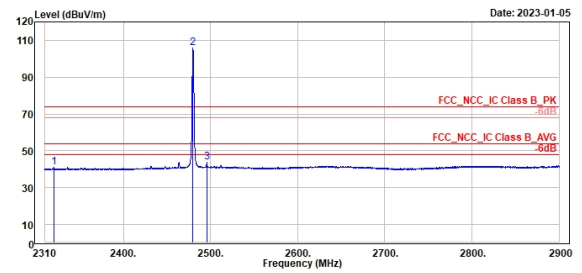
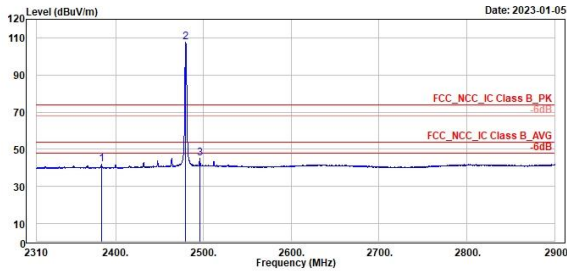
CH39 (Vertical) Average



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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MHz	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												
2383.87	41.84	3.91	37.93	54.00	-12.16	126	306	Average	Horizontal										
2488.00	107.67	69.36	38.31	54.00	53.67	126	306	Average	Horizontal										
2495.97	45.11	6.78	38.33	54.00	-8.89	126	306	Average	Horizontal										

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MHz	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												
2320.15	40.98	3.30	37.68	54.00	-13.02	292	170	Average	Vertical										
2480.00	105.78	67.47	38.31	54.00	51.78	292	170	Average	Vertical										
2495.97	43.61	5.28	38.33	54.00	-10.39	292	170	Average	Vertical										

BLE_2M

CH0 (Horizontal) Peak

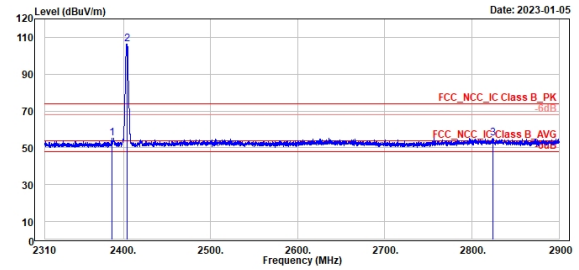
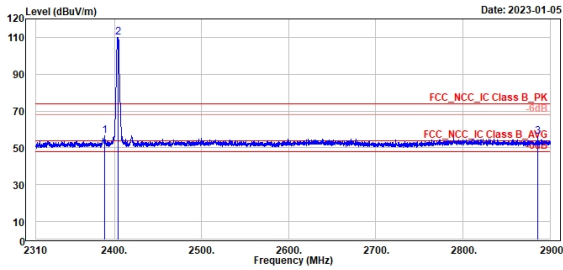
CH0 (Vertical) Peak



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Peak	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	56.53	18.61	37.92	74.00	-17.47	141	149	Peak	Horizontal	
2 *	2404.00	109.92	71.98	37.94	74.00	35.92	141	149	Peak	Horizontal	
3	2885.60	56.14	17.39	38.75	74.00	-17.86	141	149	Peak	Horizontal	

Peak	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	2387.17	55.19	17.26	37.93	74.00	-18.81	308	177	Peak	Vertical	
2 *	2404.00	106.32	68.38	37.94	74.00	32.32	308	177	Peak	Vertical	
3	2824.13	55.26	16.65	38.61	74.00	-18.74	308	177	Peak	Vertical	

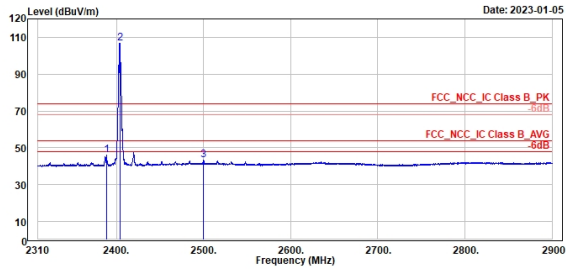
BLE_2M

CH0 (Horizontal) Average

CH0 (Vertical) Average



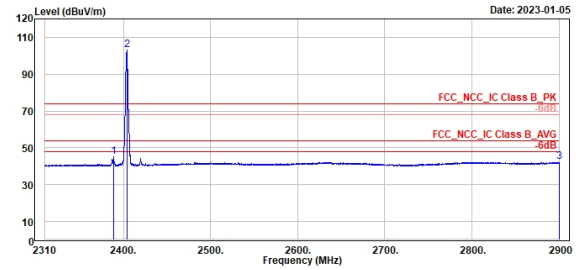
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1	2	3							
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
2388.82	45.91	7.99	37.92	54.00	-8.09	141	149 Average	Horizontal	
2404.00	106.98	69.04	37.94	54.00	52.98	141	149 Average	Horizontal	
2499.98	43.34	5.01	38.33	54.00	-10.66	141	149 Average	Horizontal	



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1	2	3							
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
2388.82	45.07	7.15	37.92	54.00	-8.93	308	177 Average	Vertical	
2404.00	103.26	65.32	37.94	54.00	49.26	308	177 Average	Vertical	
2900.00	42.40	3.61	38.79	54.00	-11.60	308	177 Average	Vertical	

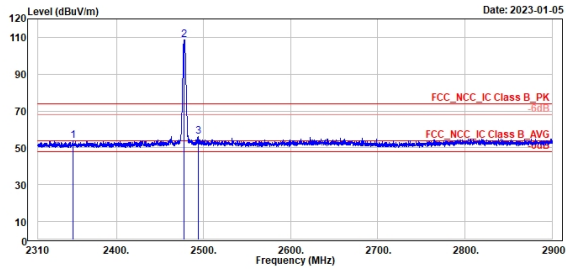
BLE_2M

CH36 (Horizontal) Peak

CH36 (Vertical) Peak



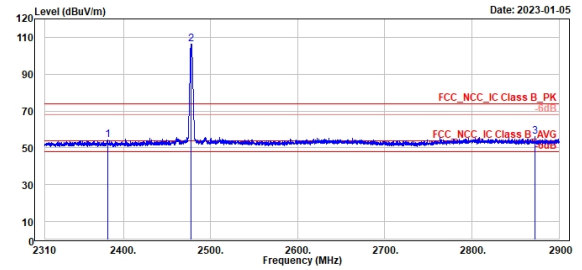
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1	2	3							
MHz	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
2358.36	53.89	15.93	37.96	74.00	-20.11	239	153 Peak	Horizontal	
2478.00	108.65	70.35	38.30	74.00	34.65	239	153 Peak	Horizontal	
2494.28	56.82	17.70	38.32	74.00	-17.98	239	153 Peak	Horizontal	



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1	2	3							
MHz	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		
2381.74	54.38	16.37	37.93	74.00	-19.70	100	174 Peak	Vertical	
2478.00	106.28	67.98	38.30	74.00	32.28	100	174 Peak	Vertical	
2872.51	55.91	17.28	38.71	74.00	-18.09	100	174 Peak	Vertical	

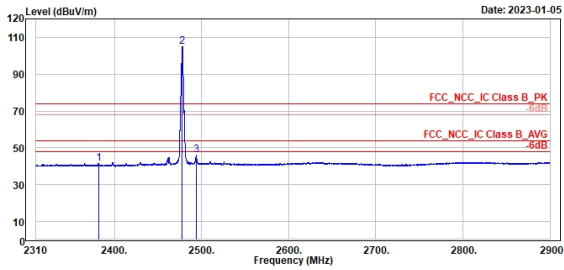
BLE_2M

CH36 (Horizontal) Average

CH36 (Vertical) Average



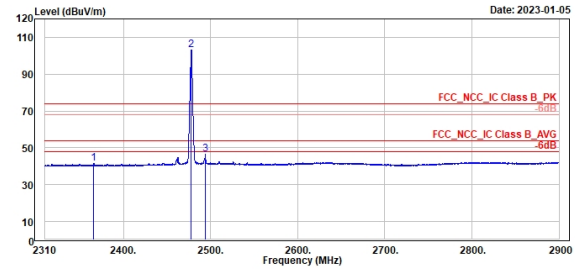
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1	2	3	Read Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2381.98	41.71	3.78	37.93	54.00	-12.29	239	153	Average	Horizontal		
2478.00	105.14	66.84	38.30	54.00	51.14	239	153	Average	Horizontal		
2494.08	46.27	7.95	38.32	54.00	-7.73	239	153	Average	Horizontal		



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1	2	3	Read 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				
2365.70	41.57	3.63	37.94	54.00	-12.43	100	174	Average	Vertical		
2478.00	103.16	64.86	38.30	54.00	49.16	100	174	Average	Vertical		
2493.96	46.42	8.10	38.32	54.00	-7.58	100	174	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

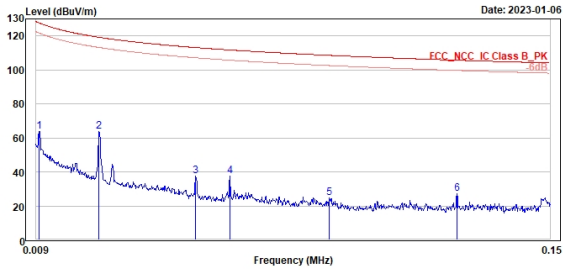
BLE_1M

CH39 (Open) 9kHz~150kHz

CH39 (Open) 150kHz~30MHz



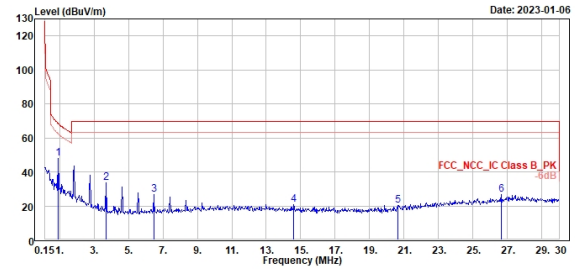
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	63.59	34.75	28.84	127.72	-64.13	100	179 QP	Open
2	0.03	63.88	41.33	22.55	119.18	-55.30	100	203 QP	Open
3	0.05	37.74	21.72	16.02	113.13	-75.39	100	280 QP	Open
4	0.06	37.75	23.02	14.73	111.72	-73.97	100	184 QP	Open
5	0.09	24.67	13.71	10.96	105.56	-83.89	100	208 QP	Open
6	0.12	27.12	18.60	8.52	105.70	-78.58	100	225 QP	Open



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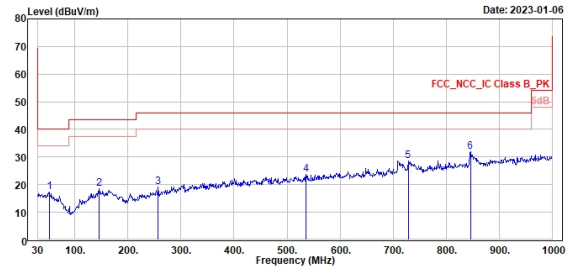
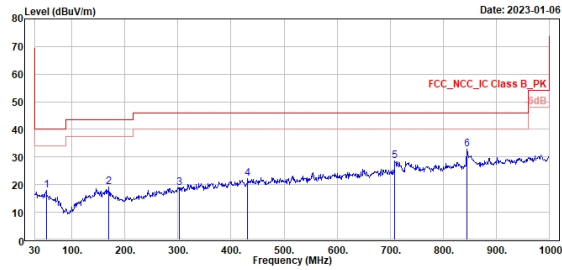
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.93	47.80	53.92	-6.12	68.27	-20.47	100	134 QP	Open
2	3.70	33.54	44.79	-11.25	69.50	-35.96	100	241 QP	Open
3	6.48	26.63	37.98	-11.35	69.50	-42.87	100	153 QP	Open
4	14.60	20.88	31.48	-10.60	69.50	-48.62	100	38 QP	Open
5	20.66	20.28	31.16	-10.88	69.50	-49.22	100	72 QP	Open
6	26.63	26.64	34.63	-7.99	69.50	-42.86	100	345 QP	Open

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
BLE_1M
CH39 (Horizontal)
CH39 (Vertical)


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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	A Pos (cm)	T Pos (deg)	Remark	Pol/Phase	Note
1	51.34	17.84	23.85	-6.01	40.00	-22.16	300	136	QP	Horizontal	
2	169.68	19.06	25.04	-5.98	43.50	-24.44	300	166	QP	Horizontal	
3	382.57	18.88	23.47	-4.59	46.00	-27.12	400	359	QP	Horizontal	
4	431.58	22.11	24.39	-2.28	46.00	-23.89	400	7	QP	Horizontal	
5	789.00	28.54	26.72	1.82	46.00	-17.46	100	283	QP	Horizontal	
6	844.80	32.76	28.73	4.03	46.00	-13.24	320	52	QP	Horizontal	

Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	A Pos (cm)	T Pos (deg)	Remark	Pol/Phase	Note
1	51.34	17.49	23.50	-6.01	40.00	-22.51	100	287	QP	Vertical	
2	145.43	18.41	24.32	-5.91	43.50	-25.09	400	309	QP	Vertical	
3	256.98	19.23	25.53	-6.30	46.00	-26.77	301	5	QP	Vertical	
4	535.37	23.78	24.67	-0.97	46.00	-22.30	200	12	QP	Vertical	
5	728.40	28.60	26.55	2.05	46.00	-17.40	143	25	QP	Vertical	
6	845.77	31.94	27.91	4.03	46.00	-14.06	200	292	QP	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

BLE_1M

CH37 (Horizontal)

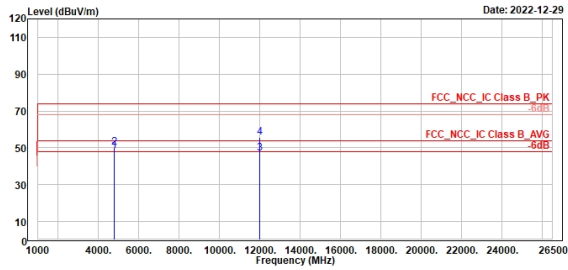
CH37 (Vertical)



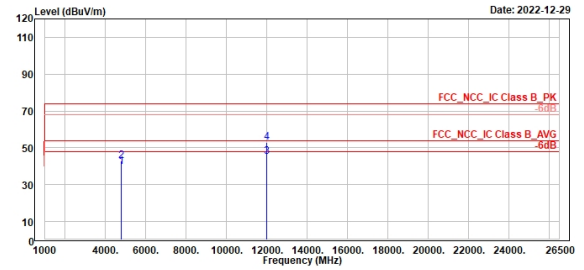
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note									
1	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg											
1	4804.00	48.24	56.76	-8.52	54.00	-5.76	300	7	Average	Horizontal									
2	4804.00	50.02	58.54	-8.52	74.00	-23.98	300	7	Peak	Horizontal									
3	12010.00	46.98	46.09	0.89	54.00	-7.02	100	112	Average	Horizontal									
4	12010.00	55.82	54.93	0.89	74.00	-18.18	100	112	Peak	Horizontal									



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note									
1	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg											
1	4804.00	39.52	48.04	-8.52	54.00	-14.48	400	294	Average	Vertical									
2	4804.00	42.87	51.39	-8.52	74.00	-31.13	400	294	Peak	Vertical									
3	12010.00	45.05	44.16	0.89	54.00	-8.95	300	98	Average	Vertical									
4	12010.00	52.00	51.91	0.89	74.00	-21.20	300	98	Peak	Vertical									

BLE_1M

CH17 (Horizontal)

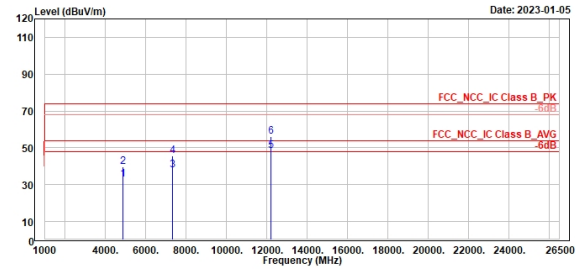
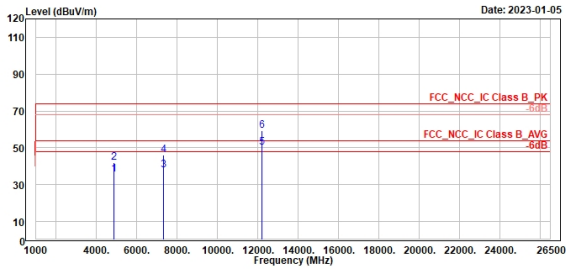
CH17 (Vertical)



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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	35.81	44.37	-8.56	54.00	-18.19	370	360 Average	Horizontal	
2	4880.00	42.17	50.73	-8.56	74.00	-31.83	370	360 Peak	Horizontal	
3	7320.00	38.09	44.30	-6.21	54.00	-15.91	300	119 Average	Horizontal	
4	7320.00	45.08	52.09	-6.21	74.00	-28.12	300	119 Peak	Horizontal	
5	12200.00	50.20	48.92	1.28	54.00	-3.80	100	75 Average	Horizontal	
6	12200.00	59.33	58.05	1.28	74.00	-14.67	100	75 Peak	Horizontal	

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	32.82	41.38	-8.56	54.00	-21.18	300	5 Average	Vertical	
2	4880.00	39.52	48.08	-8.56	74.00	-34.48	300	5 Peak	Vertical	
3	7320.00	37.89	44.10	-6.21	54.00	-16.11	100	360 Average	Vertical	
4	7320.00	45.71	51.92	-6.21	74.00	-28.29	100	360 Peak	Vertical	
5	12200.00	48.34	47.06	1.28	54.00	-5.66	300	289 Average	Vertical	
6	12200.00	56.23	54.95	1.28	74.00	-17.77	300	289 Peak	Vertical	

BLE_1M

CH39 (Horizontal)

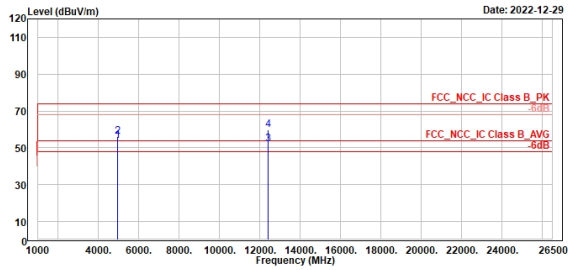
CH39 (Vertical)



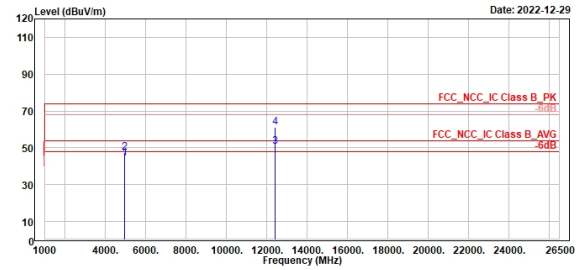
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No. 438-18, Sec 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



TUV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



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	53.68	62.07	-8.39	54.00	-0.32	287	360 Average	Horizontal	
2	4960.00	56.10	64.49	-8.39	74.00	-17.90	287	360 Peak	Horizontal	
3	12400.00	52.09	50.51	1.58	54.00	-1.91	100	72 Average	Horizontal	
4	12400.00	59.75	58.17	1.58	74.00	-14.25	100	72 Peak	Horizontal	



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	44.40	52.79	-8.39	54.00	-9.60	100	189 Average	Vertical	
2	4960.00	47.29	55.68	-8.39	74.00	-26.71	100	189 Peak	Vertical	
3	12400.00	50.43	48.85	1.58	54.00	-3.57	300	188 Average	Vertical	
4	12400.00	61.14	59.56	1.58	74.00	-12.86	300	188 Peak	Vertical	

BLE_2M

CH0 (Horizontal)

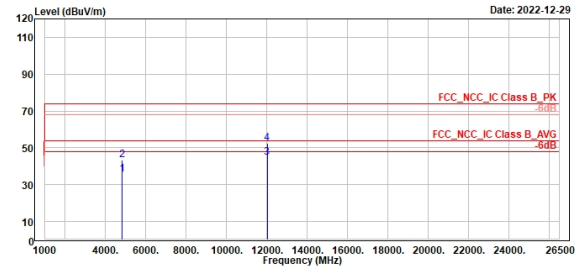
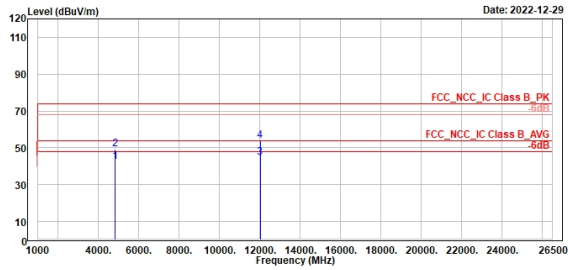
CH0 (Vertical)



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No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



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	4888.00	42.42	50.93	-8.51	54.00	-11.58	237	360 Average	Horizontal	
2	4888.00	49.07	57.58	-8.51	74.00	-24.93	237	360 Peak	Horizontal	
3	12020.00	44.92	44.01	0.91	54.00	-9.08	100	86 Average	Horizontal	
4	12020.00	53.87	52.96	0.91	74.00	-20.13	100	86 Peak	Horizontal	

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	4888.00	35.42	43.93	-8.51	54.00	-18.58	400	300 Average	Vertical	
2	4888.00	43.14	51.65	-8.51	74.00	-30.86	400	300 Peak	Vertical	
3	12020.00	44.82	43.91	0.91	54.00	-9.18	400	108 Average	Vertical	
4	12020.00	52.43	51.52	0.91	74.00	-21.57	400	108 Peak	Vertical	

BLE_2M

CH17 (Horizontal)

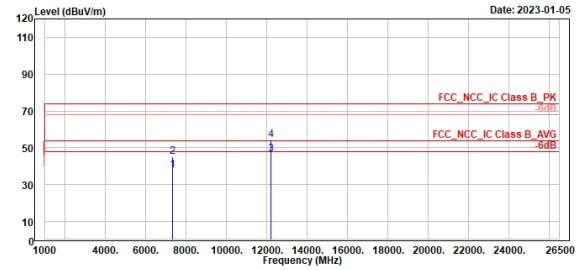
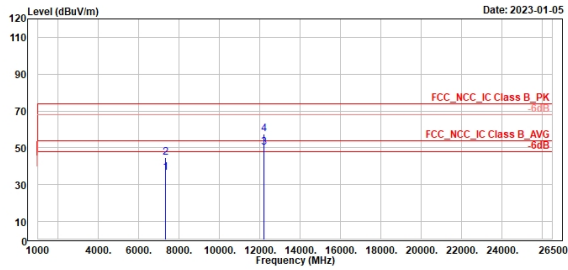
CH17 (Vertical)



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No. 438-18, Sec 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



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No. 438-18, Sec 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



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	7320.00	36.61	42.82	-6.21	54.00	-17.39	400	201 Average	Horizontal	
2	7320.00	44.76	50.97	-6.21	74.00	-29.24	400	201 Peak	Horizontal	
3	12200.00	49.98	48.70	1.28	54.00	-4.02	100	69 Average	Horizontal	
4	12200.00	57.70	56.42	1.28	74.00	-16.30	100	69 Peak	Horizontal	

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	7320.00	37.83	44.04	-6.21	54.00	-16.17	400	178 Average	Vertical	
2	7320.00	45.12	51.33	-6.21	74.00	-28.88	400	178 Peak	Vertical	
3	12200.00	46.76	45.48	1.28	54.00	-7.24	400	335 Average	Vertical	
4	12200.00	54.46	53.18	1.28	74.00	-19.54	400	335 Peak	Vertical	

BLE_2M

CH36 (Horizontal)

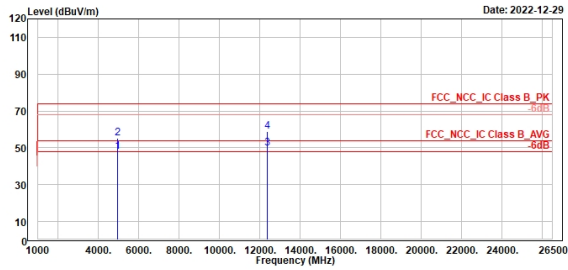
CH36 (Vertical)



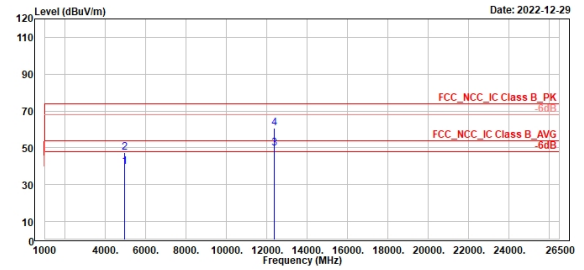
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No. 438-18, Sec 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



TUV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Item	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	4956.00	48.09	56.46	-8.37	54.00	-5.91	300	360	Average	Horizontal	
2	4956.00	55.05	63.42	-8.37	74.00	-18.95	300	360	Peak	Horizontal	
3	12398.00	49.79	48.21	1.58	54.00	-4.21	100	84	Average	Horizontal	
4	12398.00	59.05	57.47	1.58	74.00	-14.95	100	84	Peak	Horizontal	



Item	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	4956.00	39.56	47.93	-8.37	54.00	-14.44	100	178	Average	Vertical	
2	4956.00	47.51	55.88	-8.37	74.00	-26.49	100	178	Peak	Vertical	
3	12398.00	49.51	47.93	1.58	54.00	-4.49	300	183	Average	Vertical	
4	12398.00	60.57	58.99	1.58	74.00	-13.43	300	183	Peak	Vertical	

ECC Mode for 2nd Source
Band Edges, 2.31GHz ~ 2.9GHz

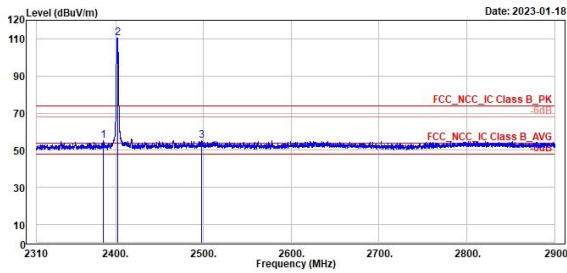
BLE_1M

CH37 (Horizontal) Peak

CH37 (Vertical) Peak



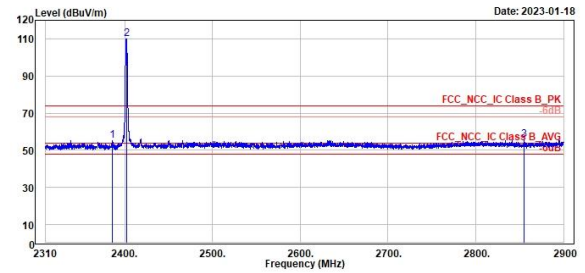
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Tel: +886-2172-1000 Fax: +886-2172-1322



Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2386.23	55.39	17.46	37.93	74.00	-18.61	192	206	Peak	Horizontal	
2 *	2402.00	110.51	72.58	37.93	74.00	36.51	192	206	Peak	Horizontal	
3	2497.62	55.24	16.91	38.33	74.00	-18.76	192	206	Peak	Horizontal	



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Tel: +886-2172-1000 Fax: +886-2172-1322



Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2386.23	55.32	17.39	37.93	74.00	-18.68	274	171	Peak	Vertical	
2 *	2402.00	109.84	71.91	37.93	74.00	35.84	274	171	Peak	Vertical	
3	2854.92	55.53	16.88	38.65	74.00	-18.47	274	171	Peak	Vertical	