

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

Primary Source (ECC)

Band Edges, 2.31GHz ~ 2.5GHz

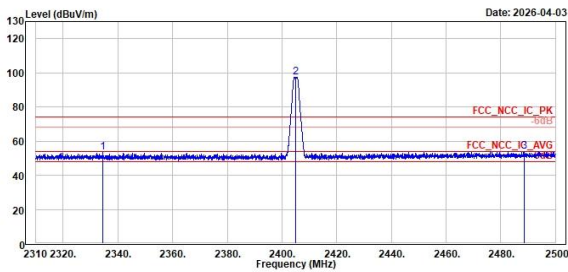
802.15.4_250kHz

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



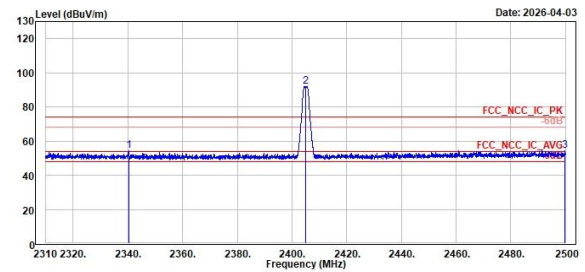
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Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2334.61	53.35	16.70	36.65	74.00	-20.65	251	339	Peak	Horizontal	
2 *	2405.00	97.58	61.02	36.56	74.00	23.58	251	339	Peak	Horizontal	
3	2488.65	53.93	16.70	37.23	74.00	-20.07	251	339	Peak	Horizontal	



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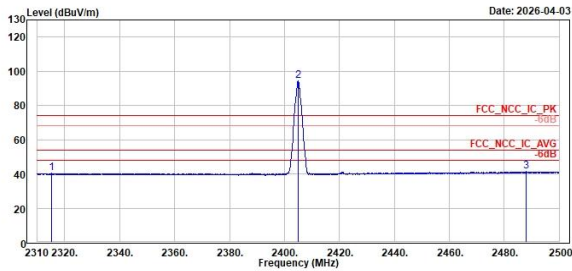
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2340.26	54.50	17.85	36.65	74.00	-19.50	302	293	Peak	Vertical	
2 *	2405.00	92.03	55.47	36.56	74.00	18.03	302	293	Peak	Vertical	
3	2499.81	54.49	17.18	37.31	74.00	-19.51	302	293	Peak	Vertical	

802.15.4_250kHz

Low Channel (Horizontal) Average



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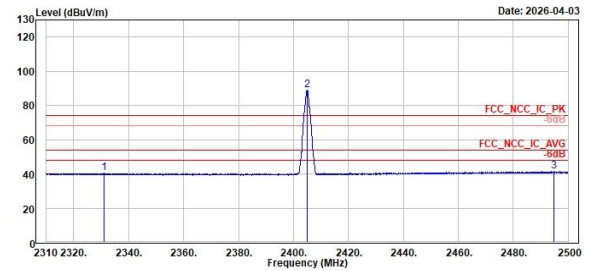


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2315.13	40.37	3.74	36.63	54.00	-13.63	251	339 Average	Horizontal	
2 *	2405.00	94.50	57.94	36.56	54.00	40.50	251	339 Average	Horizontal	
3	2488.03	41.30	4.07	37.23	54.00	-12.70	251	339 Average	Horizontal	

Low Channel (Vertical) Average



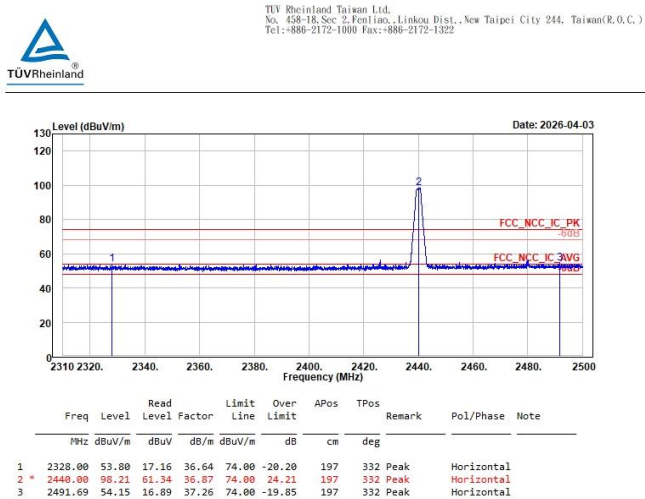
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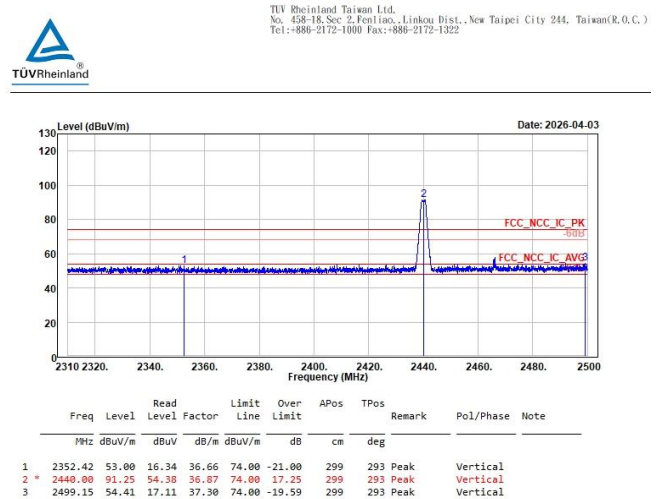
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2331.19	40.33	3.69	36.64	54.00	-13.67	302	293 Average	Vertical	
2 *	2405.00	88.97	52.41	36.56	54.00	34.97	302	293 Average	Vertical	
3	2494.87	41.34	4.06	37.28	54.00	-12.66	302	293 Average	Vertical	

802.15.4_250kHz

Middle Channel (Horizontal) Peak



Middle Channel (Vertical) Peak

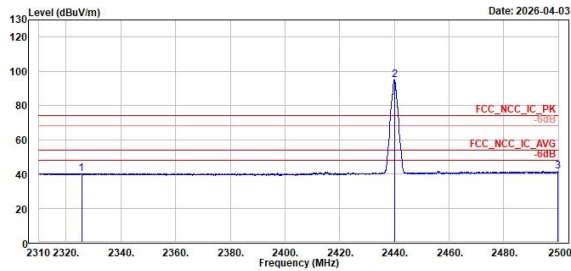


802.15.4_250kHz

Middle Channel (Horizontal) Average



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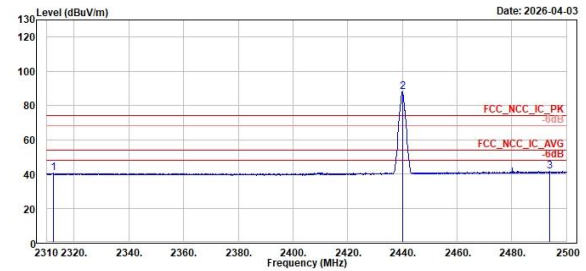


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2325.63	40.27	3.63	36.64	54.00	-13.73	197	332	Average	Horizontal		
2 *	2440.00	95.06	58.19	36.87	54.00	41.06	197	332	Average	Horizontal		
3	2499.67	41.37	4.06	37.31	54.00	-12.63	197	332	Average	Horizontal		

Middle Channel (Vertical) Average



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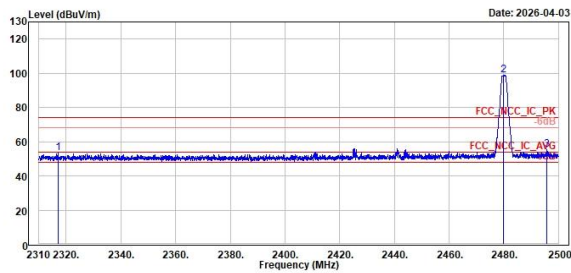
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2312.33	40.30	3.67	36.63	54.00	-13.70	299	293	Average	Vertical		
2 *	2440.00	88.18	51.31	36.87	54.00	34.18	299	293	Average	Vertical		
3	2493.78	41.53	4.26	37.27	54.00	-12.47	299	293	Average	Vertical		

802.15.4_250kHz

High Channel (Horizontal) Peak



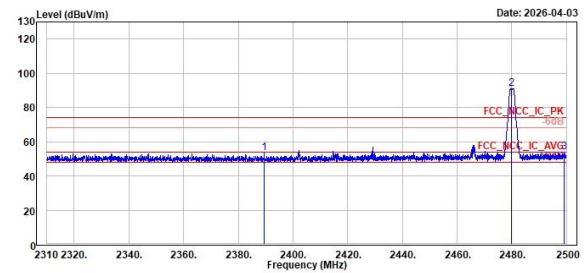
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2317.17	53.34	16.71	36.63	74.00	-20.66	267	312	Peak	Horizontal		
2 *	2480.00	98.76	61.59	37.17	74.00	24.76	267	312	Peak	Horizontal		
3	2495.82	55.42	18.14	37.28	74.00	-18.58	267	312	Peak	Horizontal		



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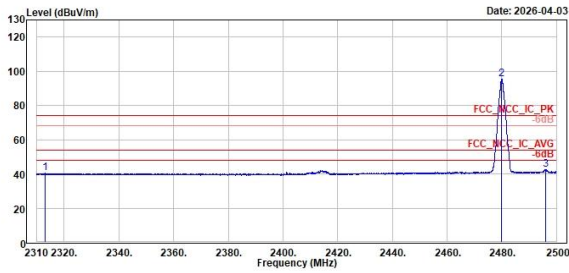
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.37	53.44	16.90	36.54	74.00	-20.56	270	353	Peak	Vertical		
2 *	2480.00	91.19	54.02	37.17	74.00	17.19	270	353	Peak	Vertical		
3	2499.29	54.09	16.78	37.31	74.00	-19.91	270	353	Peak	Vertical		

802.15.4_250kHz

High Channel (Horizontal) Average



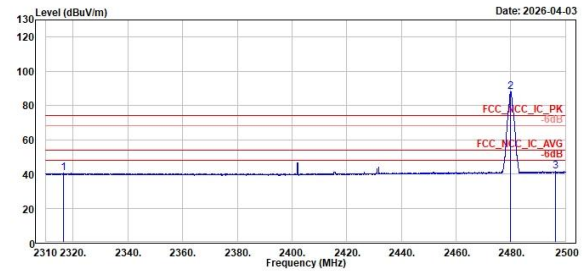
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Tel: +886-2172-1000 Fax: +886-2172-1322



High Channel (Vertical) Average



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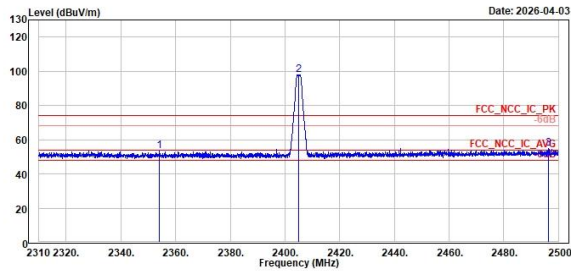


Proprietary 2Mbps

Low Channel (Horizontal) Peak



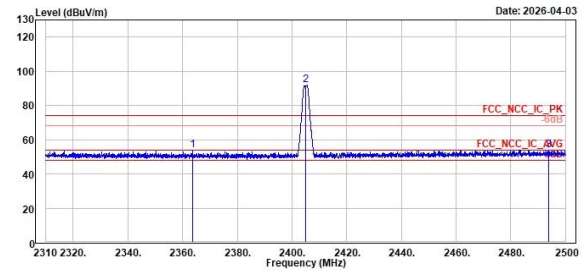
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2354.00	53.40	16.75	36.65	74.00	-20.60	228	338 Peak	Horizontal		
2 *	2405.00	97.88	61.32	36.56	74.00	23.88	228	338 Peak	Horizontal		
3	2496.49	54.72	17.43	37.29	74.00	-19.28	228	338 Peak	Horizontal		



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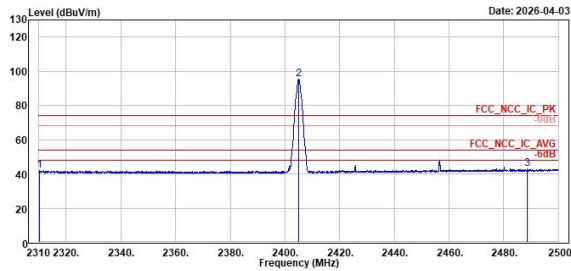
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2363.77	54.07	17.45	36.62	74.00	-19.93	301	292 Peak	Vertical		
2 *	2405.00	91.75	55.19	36.56	74.00	17.75	301	292 Peak	Vertical		
3	2493.73	53.89	16.62	37.27	74.00	-20.11	301	292 Peak	Vertical		

Proprietary 2Mbps

Low Channel (Horizontal) Average



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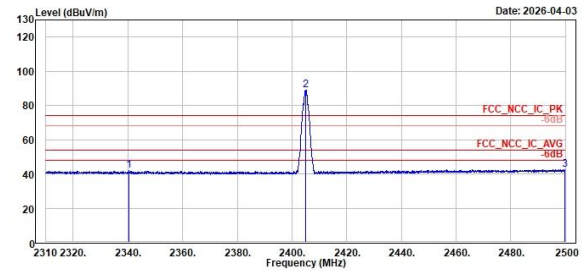


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2310.19	41.82	5.20	36.62	54.00	-12.18	228	338 Average	Horizontal	
2 *	2405.00	95.40	58.64	36.56	54.00	41.40	228	338 Average	Horizontal	
3	2488.51	42.91	5.68	37.23	54.00	-11.09	228	338 Average	Horizontal	

Low Channel (Vertical) Average



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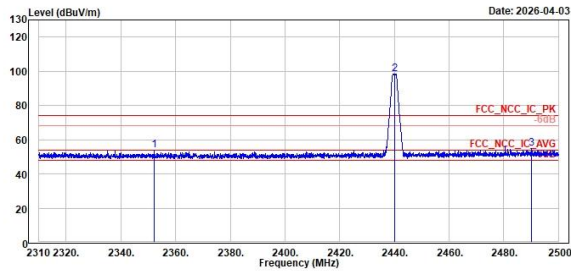
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2340.31	41.81	5.16	36.65	54.00	-12.19	301	292 Average	Vertical	
2 *	2405.00	89.20	52.64	36.56	54.00	35.20	301	292 Average	Vertical	
3	2499.62	42.59	5.28	37.31	54.00	-11.41	301	292 Average	Vertical	

Proprietary 2Mbps

Middle Channel (Horizontal) Peak



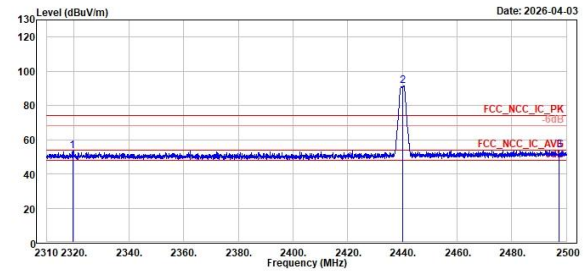
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Tel: +886-2172-1000 Fax: +886-2172-1322



Middle Channel (Vertical) Peak



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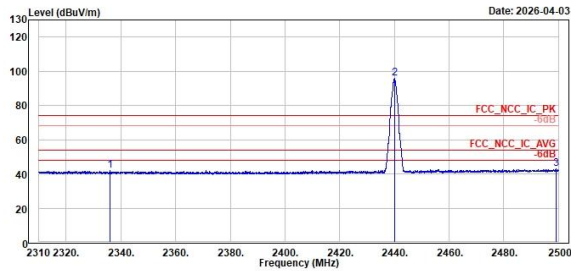


Proprietary 2Mbps

Middle Channel (Horizontal) Average



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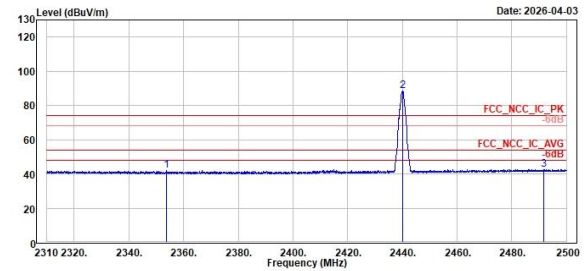


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2335.89	41.80	5.15	36.65	54.00	-12.20		221	339	Average	Horizontal	
2 *	2440.00	95.92	59.05	36.87	54.00	41.92		221	339	Average	Horizontal	
3	2499.19	42.79	5.48	37.31	54.00	-11.21		221	339	Average	Horizontal	

Middle Channel (Vertical) Average



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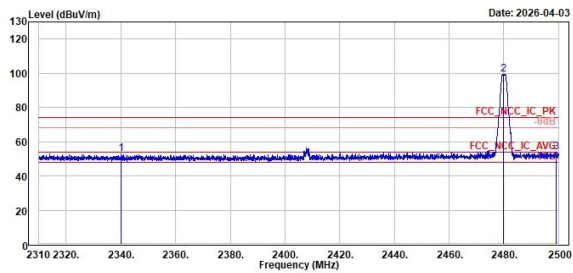
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2353.89	41.83	5.18	36.65	54.00	-12.17		298	267	Average	Vertical	
2 *	2440.00	88.72	51.85	36.87	54.00	34.72		298	267	Average	Vertical	
3	2491.69	42.51	5.25	37.26	54.00	-11.49		298	267	Average	Vertical	

Proprietary 2Mbps

High Channel (Horizontal) Peak



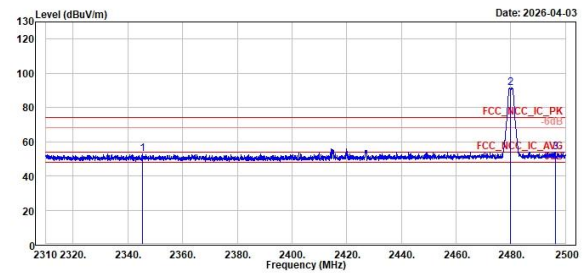
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2340.02	52.78	16.13	36.65	74.00	-21.22	221	336	Peak	Horizontal		
2 *	2480.00	99.41	62.24	37.17	74.00	25.41	221	336	Peak	Horizontal		
3	2499.24	53.77	16.46	37.31	74.00	-20.23	221	336	Peak	Horizontal		



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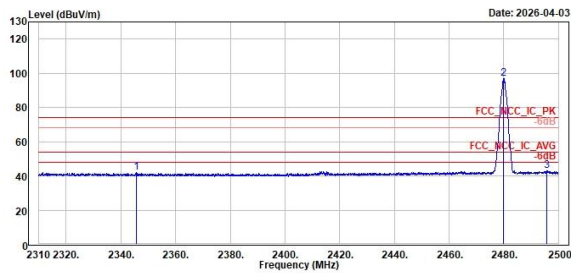
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2345.34	53.03	16.37	36.66	74.00	-20.97	330	356	Peak	Vertical		
2 *	2480.00	91.31	54.14	37.17	74.00	17.31	330	356	Peak	Vertical		
3	2496.34	54.11	16.82	37.29	74.00	-19.89	330	356	Peak	Vertical		

Proprietary 2Mbps

High Channel (Horizontal) Average



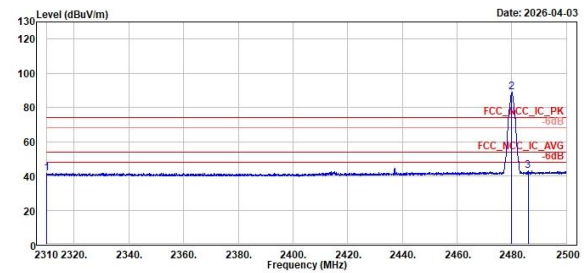
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2345.72	42.23	5.57	36.66	54.00	-11.77	221	336	Average	Horizontal		
2 *	2480.00	96.87	59.70	37.17	54.00	42.87	221	336	Average	Horizontal		
3	2495.77	43.25	5.97	37.28	54.00	-10.75	221	336	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	2310.05	41.66	5.04	36.62	54.00	-12.34	330	356	Average	Vertical		
2 *	2480.00	80.76	51.59	37.17	54.00	34.76	330	356	Average	Vertical		
3	2485.94	42.92	5.70	37.22	54.00	-11.08	330	356	Average	Vertical		

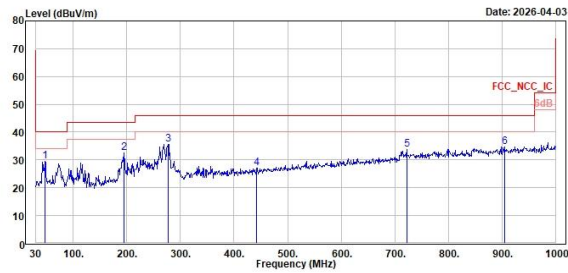
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

802.15.4_250kHz

Low Channel (Horizontal)



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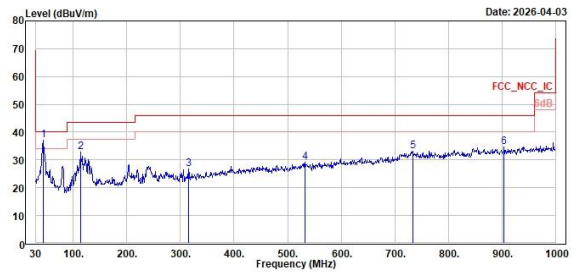


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	47.46	29.50	35.58	-6.08	40.00	-10.50	200	296 Peak	Horizontal	
2	193.93	32.52	41.00	-8.48	43.50	-10.98	200	282 Peak	Horizontal	
3	277.35	35.61	41.55	-5.94	46.00	-10.39	100	263 Peak	Horizontal	
4	442.25	27.22	29.60	-2.38	46.00	-18.78	100	186 Peak	Horizontal	
5	722.58	33.64	31.05	2.59	46.00	-12.36	100	270 Peak	Horizontal	
6	904.94	34.77	29.83	4.94	46.00	-11.23	100	250 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	44.55	36.96	43.15	-6.19	40.00	-3.04	100	266 Peak	Vertical	
2	113.42	32.89	42.38	-9.49	43.50	-10.61	100	187 Peak	Vertical	
3	315.18	26.83	31.90	-5.07	46.00	-19.17	149	360 Peak	Vertical	
4	532.46	29.15	29.80	-0.65	46.00	-16.85	200	335 Peak	Vertical	
5	733.25	33.09	30.38	2.71	46.00	-12.91	100	360 Peak	Vertical	
6	903.97	34.59	29.67	4.92	46.00	-11.41	200	244 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

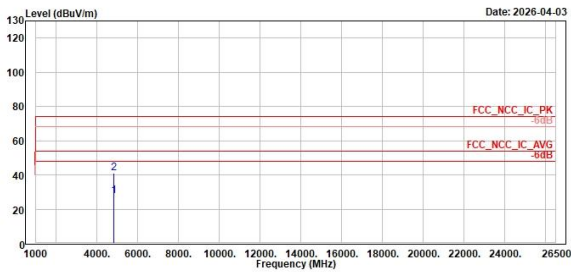
802.15.4_250kHz

Low Channel (Horizontal)

Low Channel (Vertical)



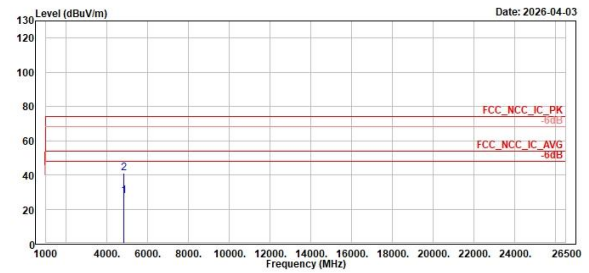
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	4810.00	27.46	38.30	-10.84	54.00	-26.54	300	100 Average	Horizontal	
2	4810.00	40.86	51.70	-10.84	74.00	-33.14	300	100 Peak	Horizontal	



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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	4810.00	27.45	38.29	-10.84	54.00	-26.55	200	200 Average	Vertical	
2	4810.00	41.27	52.11	-10.84	74.00	-32.73	200	200 Peak	Vertical	

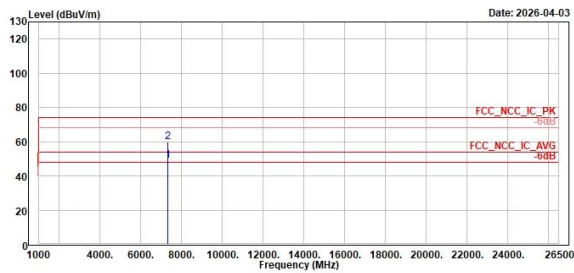
802.15.4_250kHz

Middle Channel (Horizontal)

Middle Channel (Vertical)



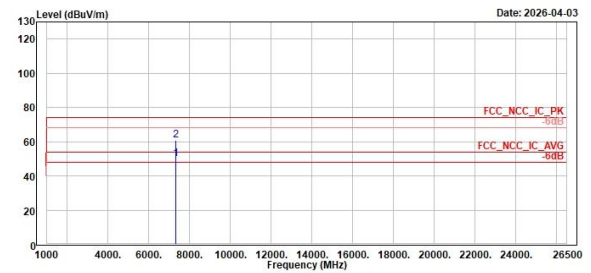
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7320.00	49.07	57.78	-8.71	54.00	-4.93	100	59	Average	Horizontal		
2	7320.00	59.75	68.46	-8.71	74.00	-14.25	100	59	Peak	Horizontal		



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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	7320.00	50.15	58.86	-8.71	54.00	-3.85	299	259	Average	Vertical		
2	7320.00	61.01	69.72	-8.71	74.00	-12.99	299	259	Peak	Vertical		

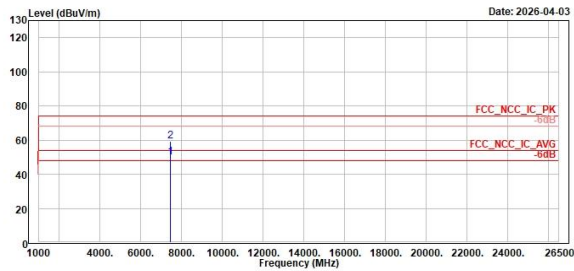
802.15.4_250kHz

High Channel (Horizontal)

High Channel (Vertical)



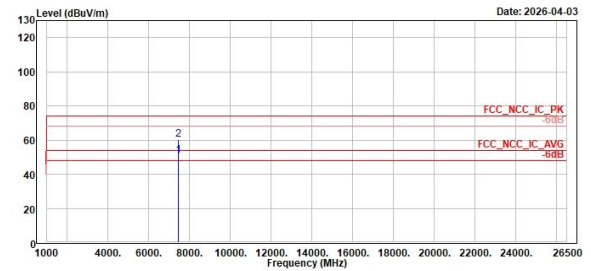
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7440.00	49.84	58.55	-8.71	54.00	-4.16	100	44	Average	Horizontal		
2	7440.00	59.41	68.12	-8.71	74.00	-14.59	100	44	Peak	Horizontal		



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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	7440.00	50.85	59.56	-8.71	54.00	-3.15	311	253	Average	Vertical		
2	7440.00	60.54	69.25	-8.71	74.00	-13.46	311	253	Peak	Vertical		

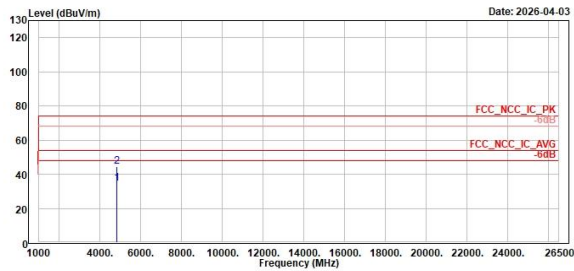
Proprietary 2Mbps

Low Channel (Horizontal)

Low Channel (Vertical)



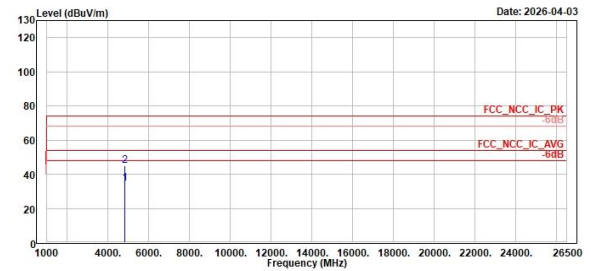
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4810.00	34.49	45.33	-10.84	54.00	-19.51	301	308	Average	Horizontal		
2	4810.00	44.30	55.14	-10.84	74.00	-29.70	301	308	Peak	Horizontal		



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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	4810.00	34.44	45.28	-10.84	54.00	-19.56	100	283	Average	Vertical		
2	4810.00	44.84	55.68	-10.84	74.00	-29.16	100	283	Peak	Vertical		

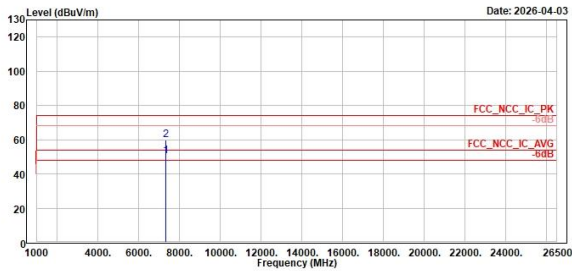
Proprietary 2Mbps

Middle Channel (Horizontal)

Middle Channel (Vertical)



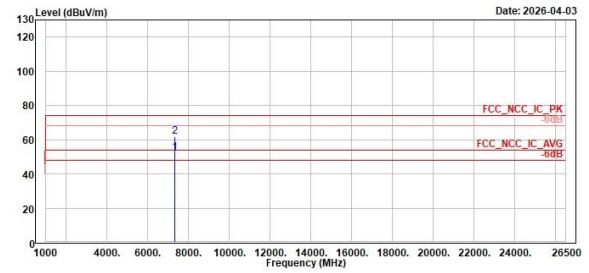
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	7320.00	50.32	59.03	-8.71	54.00	-3.68	100	59	Average	Horizontal	
2	7320.00	59.80	68.51	-8.71	74.00	-14.20	100	59	Peak	Horizontal	



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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	7320.00	52.21	60.92	-8.71	54.00	-1.79	250	259	Average	Vertical	
2	7320.00	61.95	70.66	-8.71	74.00	-12.05	250	259	Peak	Vertical	

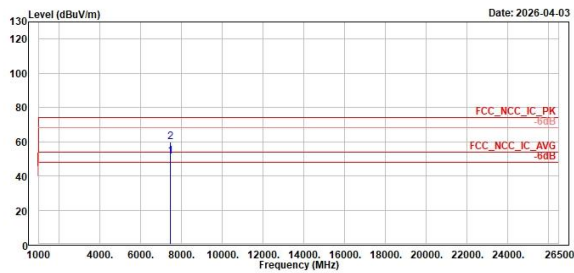
Proprietary 2Mbps

High Channel (Horizontal)

High Channel (Vertical)



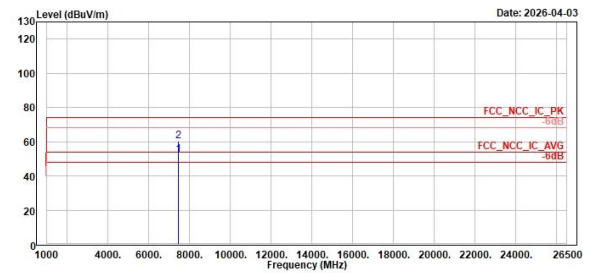
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7440.00	51.42	60.13	-8.71	54.00	-2.58	100	43	Average	Horizontal		
2	7440.00	59.87	68.58	-8.71	74.00	-14.13	100	43	Peak	Horizontal		



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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	7440.00	52.25	60.96	-8.71	54.00	-1.75	245	255	Average	Vertical		
2	7440.00	60.52	69.23	-8.71	74.00	-13.48	245	255	Peak	Vertical		

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

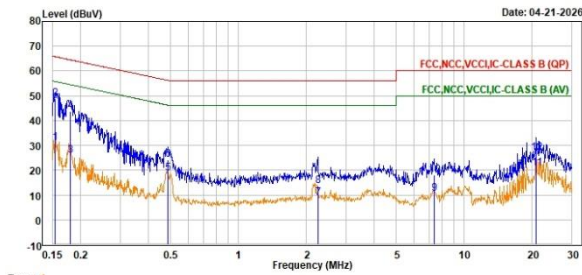
802.15.4_250kHz_Worst Band

(Line)

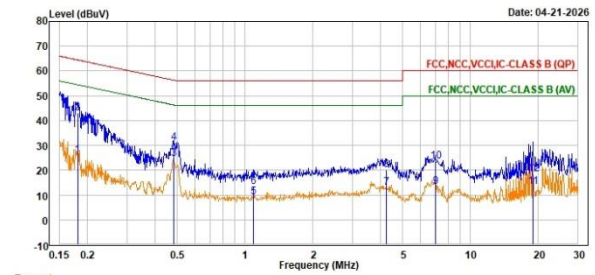
(Neutral)



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

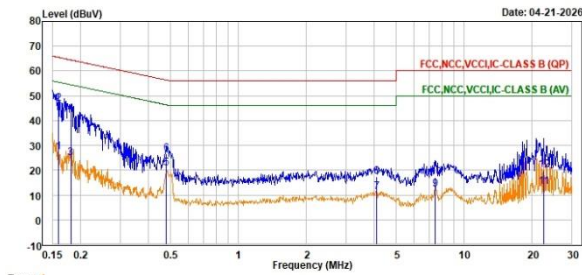
Proprietary 2Mbps_Worst Band

(Line)

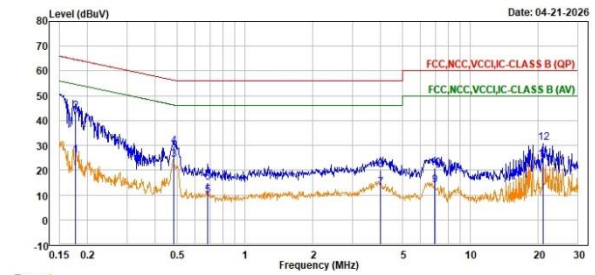
(Neutral)



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Secondary Source (ECC) Band Edges, 2.31GHz ~ 2.5GHz

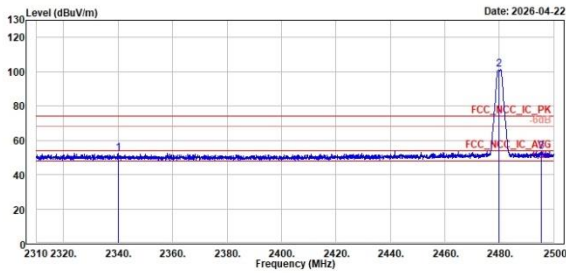
Proprietary 2Mbps

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



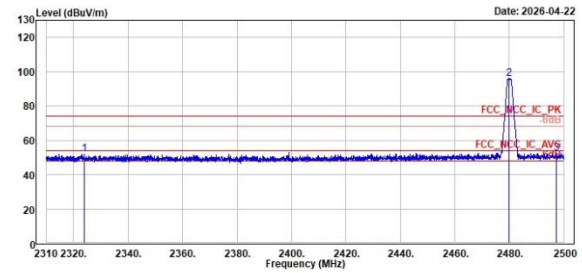
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2348.21	52.18	15.53	36.65	74.00	-21.82	330	360	Peak	Horizontal		
2 *	2480.00	101.16	63.99	37.17	74.00	27.16	330	360	Peak	Horizontal		
3	2495.30	53.17	15.89	37.28	74.00	-20.83	330	360	Peak	Horizontal		



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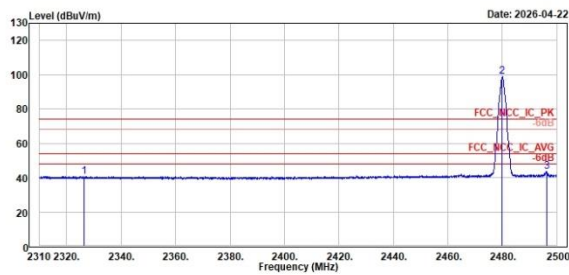
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2323.97	51.98	15.34	36.64	74.00	-22.02	287	292	Peak	Vertical		
2 *	2480.00	95.86	58.69	37.17	74.00	21.86	287	292	Peak	Vertical		
3	2497.39	52.44	15.15	37.29	74.00	-21.56	287	292	Peak	Vertical		

Proprietary 2Mbps

High Channel (Horizontal) Average



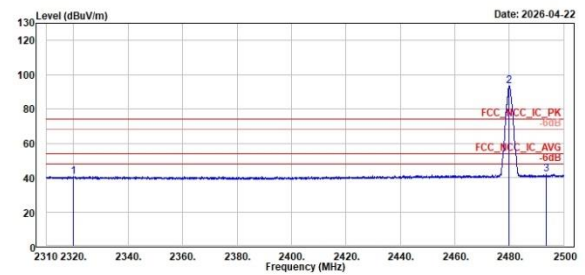
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2326.44	40.67	4.03	36.64	54.00	-13.33	330	360	Average	Horizontal		
2 *	2480.00	98.63	61.46	37.17	54.00	44.63	330	360	Average	Horizontal		
3	2496.25	43.29	6.00	37.29	54.00	-10.71	330	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		cm	deg			
1	2319.93	40.66	4.03	36.63	54.00	-13.34	287	292	Average	Vertical		
2 *	2480.00	93.30	56.13	37.17	54.00	39.30	287	292	Average	Vertical		
3	2493.64	41.91	4.64	37.27	54.00	-12.09	287	292	Average	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

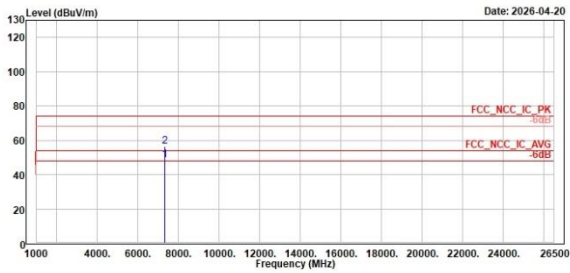
Proprietary 2Mbps

Middle Channel (Horizontal)

Middle Channel (Vertical)



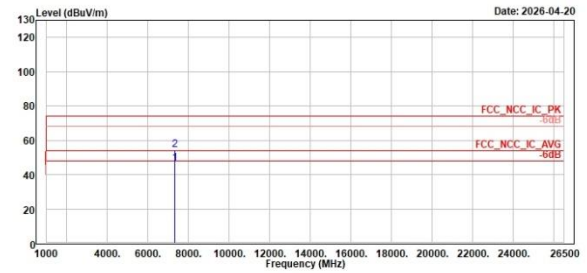
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7320.00	48.32	57.03	-8.71	54.00	-5.68	123	292	Average	Horizontal		
2	7320.00	56.55	65.26	-8.71	74.00	-17.45	123	292	Peak	Horizontal		



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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	7320.00	46.32	55.03	-8.71	54.00	-7.68	400	284	Average	Vertical		
2	7320.00	54.59	63.30	-8.71	74.00	-19.41	400	284	Peak	Vertical		

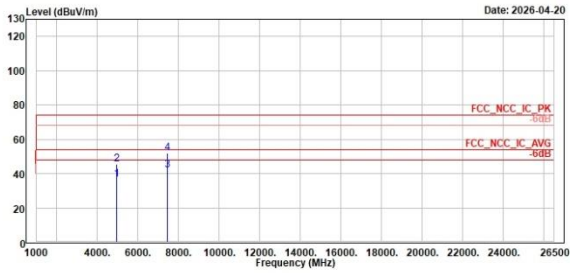
Proprietary 2Mbps

High Channel (Horizontal)

High Channel (Vertical)



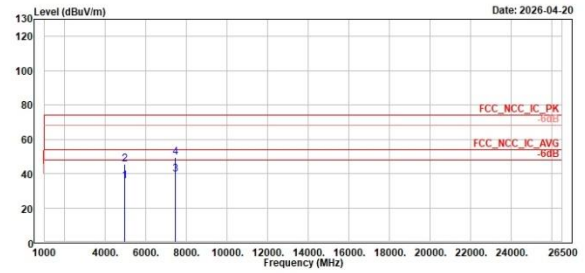
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	36.33	46.85	-10.52	54.00	-17.67	117	23	Average	Horizontal		
2	4960.00	45.66	56.18	-10.52	74.00	-28.34	117	23	Peak	Horizontal		
3	7440.00	42.00	50.71	-8.71	54.00	-12.00	100	282	Average	Horizontal		
4	7440.00	51.85	60.56	-8.71	74.00	-22.15	100	282	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	35.77	46.29	-10.52	54.00	-18.23	255	0	Average	Vertical		
2	4960.00	45.52	56.04	-10.52	74.00	-28.48	255	0	Peak	Vertical		
3	7440.00	39.58	48.29	-8.71	54.00	-14.42	384	235	Average	Vertical		
4	7440.00	49.45	58.16	-8.71	74.00	-24.55	384	235	Peak	Vertical		