

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

<EUT with Antenna 1_Kaga>

Band Edges, 2.31GHz ~ 2.5GHz

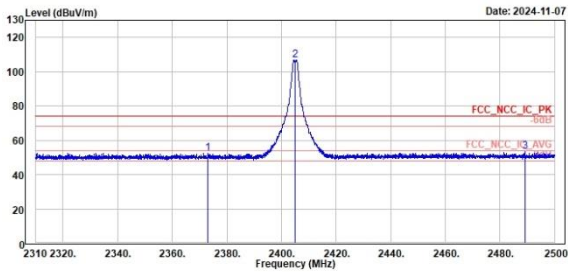
802.15.4

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



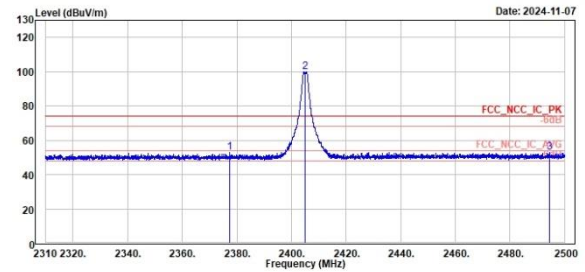
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	2373.08	52.69	46.79	5.81	74.00	-21.40	310	264 Peak	Horizontal	
2 *	2405.00	106.88	100.98	5.90	74.00	32.88	310	264 Peak	Horizontal	
3	2489.17	53.37	47.22	6.15	74.00	-20.63	310	264 Peak	Horizontal	



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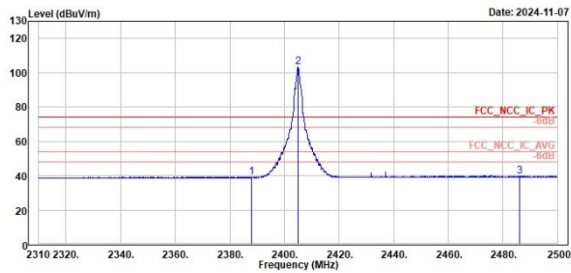
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	2377.41	52.78	46.96	5.82	74.00	-21.22	171	226 Peak	Vertical	
2 *	2405.00	99.91	94.01	5.90	74.00	25.91	171	226 Peak	Vertical	
3	2494.53	53.04	46.90	6.14	74.00	-20.96	171	226 Peak	Vertical	

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Low Channel (Horizontal) Average



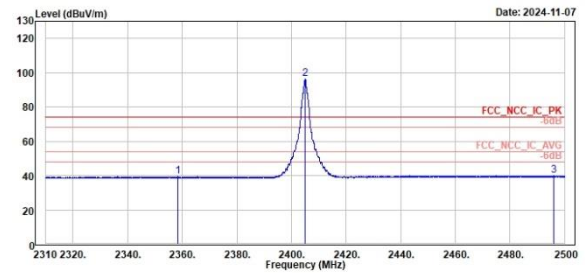
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2387.98	39.15	33.30	5.85	54.00	-14.85		310	264	Average	Horizontal	
2 *	2405.00	105.15	97.25	5.90	54.00	49.15		310	264	Average	Horizontal	
3	2486.17	39.57	33.43	6.14	54.00	-14.43		310	264	Average	Horizontal	



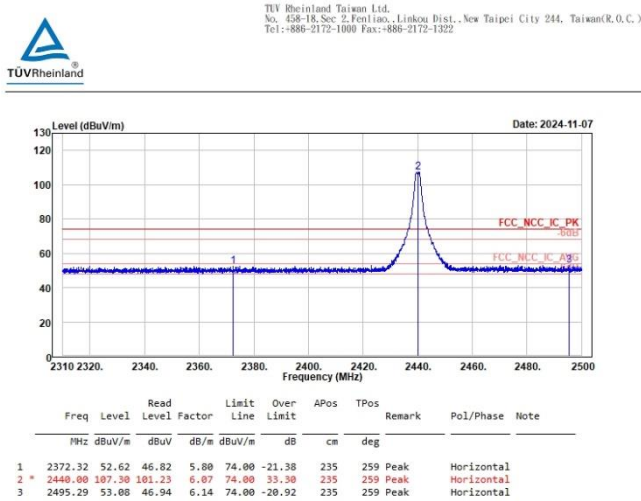
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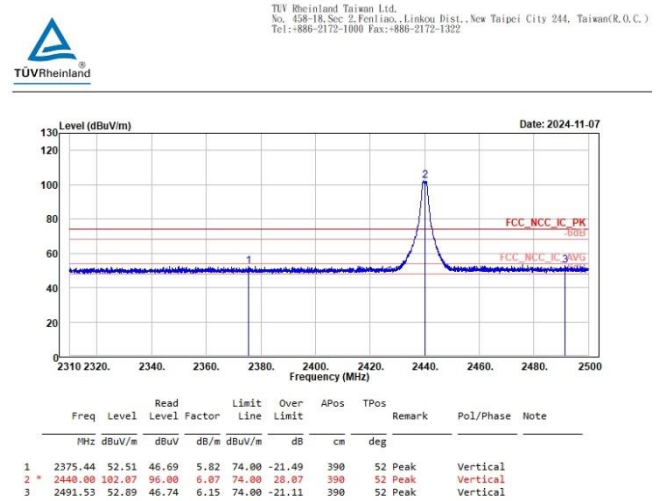
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2358.37	39.64	33.87	5.77	54.00	-14.36		171	226	Average	Vertical	
2 *	2405.00	98.39	90.49	5.90	54.00	42.39		171	226	Average	Vertical	
3	2495.97	39.81	33.67	6.14	54.00	-14.19		171	226	Average	Vertical	

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Middle Channel (Horizontal) Peak



Middle Channel (Vertical) Peak

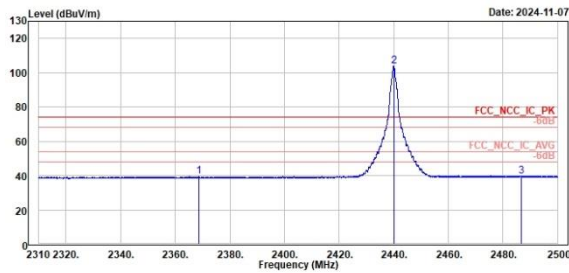


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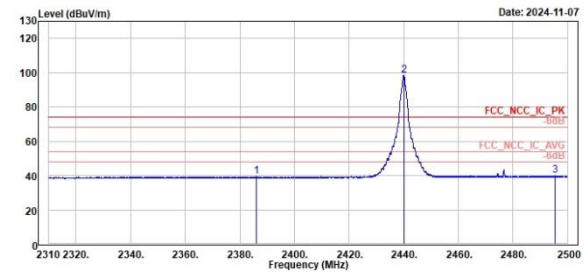
Middle Channel (Horizontal) Average



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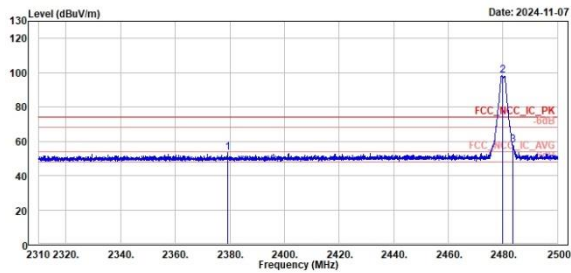


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High Channel (Horizontal) Peak



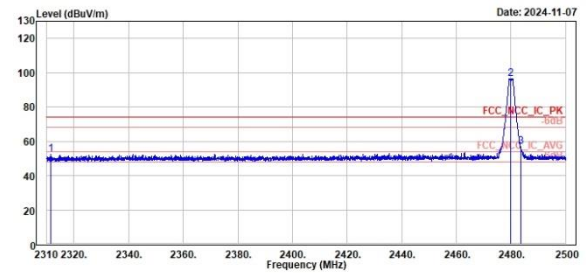
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2379.00	53.38	47.56	5.82	74.00	-20.62	290	262	Peak	Horizontal		
2 *	2480.00	98.14	92.01	6.13	74.00	24.14	290	262	Peak	Horizontal		
3	2483.74	58.01	51.87	6.14	74.00	-15.99	290	262	Peak	Horizontal		



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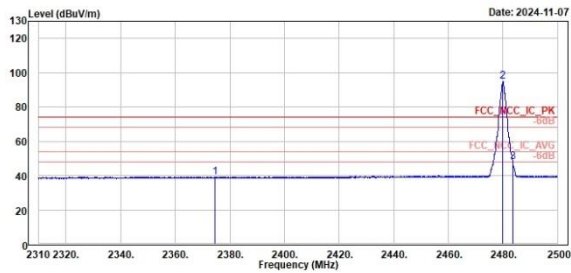
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2311.60	52.35	46.78	5.57	74.00	-21.65	360	65	Peak	Vertical		
2 *	2480.00	96.48	90.35	6.13	74.00	22.48	360	65	Peak	Vertical		
3	2483.51	56.70	50.56	6.14	74.00	-17.30	360	65	Peak	Vertical		

802.15.4

High Channel (Horizontal) Average



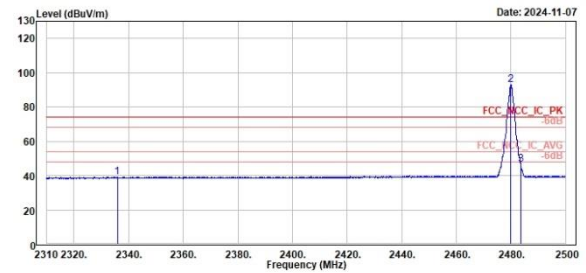
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2374.45	39.19	33.38	5.81	54.00	-14.81	290	262	Average	Horizontal		
2 *	2480.00	94.72	88.59	6.13	54.00	40.72	290	262	Average	Horizontal		
3 †	2483.51	48.07	41.93	6.14	54.00	-5.93	290	262	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	2335.88	39.24	33.57	5.67	54.00	-14.76	360	65	Average	Vertical		
2 *	2480.00	93.05	86.92	6.13	54.00	39.05	360	65	Average	Vertical		
3	2483.51	46.63	40.49	6.14	54.00	-7.37	360	65	Average	Vertical		

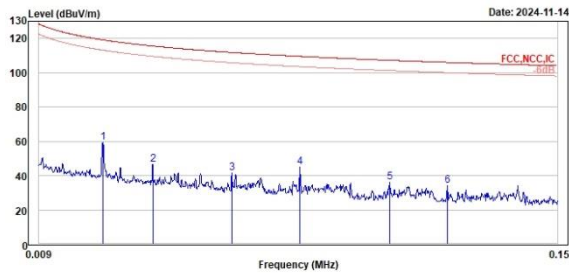
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

802.15.4

Middle Channel (Open) 9kHz~150kHz



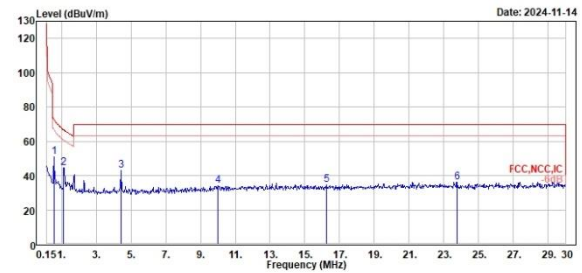
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	0.03	59.20	39.65	19.55	119.13	-59.93	100	306	Peak	Open		
2	0.04	46.57	26.91	19.66	115.55	-68.98	100	99	Peak	Open		
3	0.06	41.52	22.23	19.29	111.82	-70.30	100	55	Peak	Open		
4	0.08	45.14	26.22	18.92	109.53	-64.39	100	172	Peak	Open		
5	0.10	35.99	17.46	18.53	107.23	-71.24	100	294	Peak	Open		
6	0.12	34.24	15.67	18.57	106.01	-71.77	100	153	Peak	Open		



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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	0.57	50.84	31.75	19.09	72.52	-21.68	100	198	Peak	Open		
2	1.14	44.49	25.49	19.00	66.50	-22.01	100	99	Peak	Open		
3	4.42	43.03	23.68	19.35	69.50	-26.47	100	53	Peak	Open		
4	10.00	34.02	13.02	21.00	69.50	-35.48	100	163	Peak	Open		
5	16.24	34.76	13.01	21.75	69.50	-34.74	100	70	Peak	Open		
6	23.76	36.26	13.95	22.31	69.50	-33.24	100	118	Peak	Open		

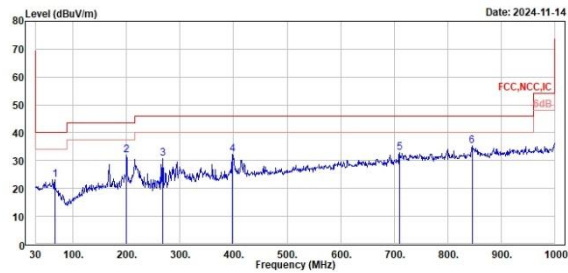
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

802.15.4

Middle Channel (Horizontal)



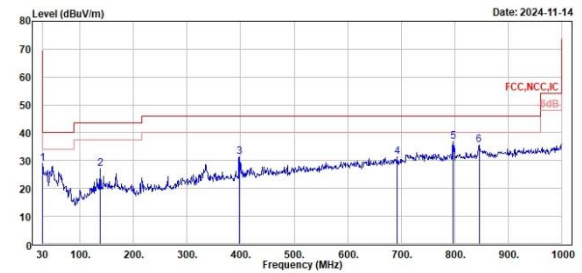
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	65.89	23.21	31.99	-8.78	40.00	-16.79	100	328	Peak	Horizontal	
2	199.75	32.09	41.43	-9.34	43.50	-11.41	200	8	Peak	Horizontal	
3	267.65	30.70	37.99	-7.29	46.00	-15.30	100	93	Peak	Horizontal	
4	397.63	32.17	36.07	-3.90	46.00	-13.83	100	132	Peak	Horizontal	
5	709.97	32.90	30.72	2.18	46.00	-13.10	200	305	Peak	Horizontal	
6	845.77	35.27	31.04	4.23	46.00	-10.73	100	244	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	30.00	28.83	37.53	-8.70	40.00	-11.17	100	198	Peak	Vertical	
2	137.67	27.22	35.16	-7.94	43.50	-16.28	100	225	Peak	Vertical	
3	397.63	31.46	35.36	-3.90	46.00	-14.54	100	221	Peak	Vertical	
4	692.51	31.43	29.82	1.61	46.00	-14.57	200	19	Peak	Vertical	
5	797.27	36.83	33.30	3.53	46.00	-9.17	149	360	Peak	Vertical	
6	845.77	35.65	31.42	4.23	46.00	-10.35	100	10	Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

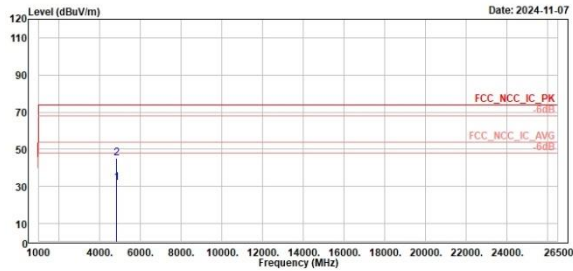
802.15.4

Low Channel (Horizontal)

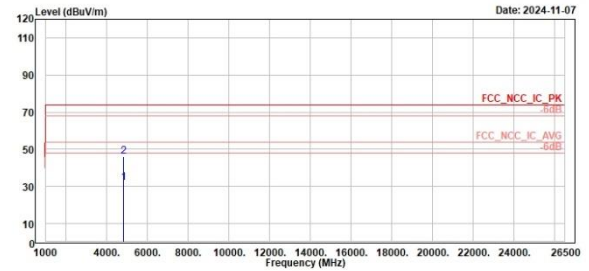
Low Channel (Vertical)



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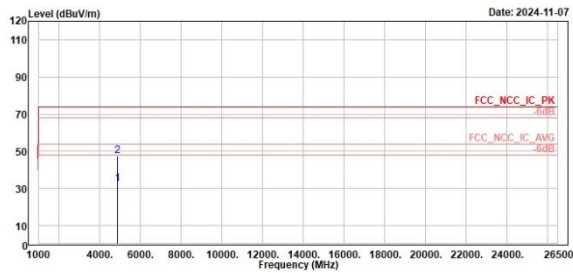


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Middle Channel (Horizontal)



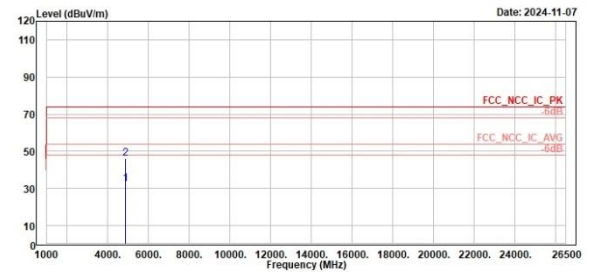
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	4880.00	32.29	22.42	9.87	54.00	-21.71	100	61	Average	Horizontal		
2	4880.00	47.30	37.43	9.87	74.00	-26.70	100	61	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	4880.00	32.21	22.34	9.87	54.00	-21.79	100	99	Average	Vertical		
2	4880.00	46.16	36.29	9.87	74.00	-27.64	100	99	Peak	Vertical		

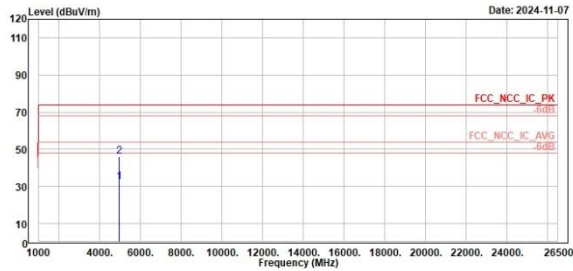
802.15.4

High Channel (Horizontal)

High Channel (Vertical)



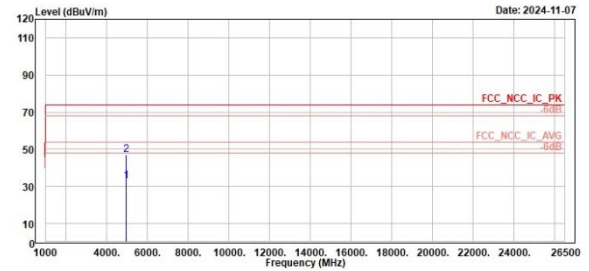
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	32.58	22.42	10.16	54.00	-21.42	200	133	Average	Horizontal	
2	4960.00	46.26	36.10	10.16	74.00	-27.74	200	133	Peak	Horizontal	



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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	32.74	22.58	10.16	54.00	-21.26	200	109	Average	Vertical	
2	4960.00	47.07	36.91	10.16	74.00	-26.93	200	109	Peak	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

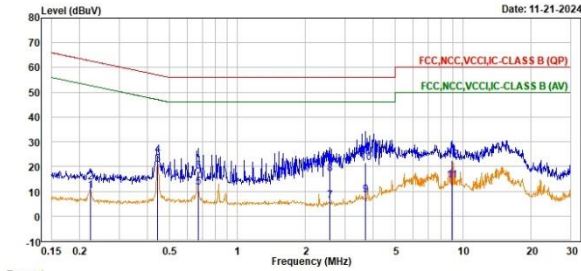
Worst Band

(Line)

(Neutral)



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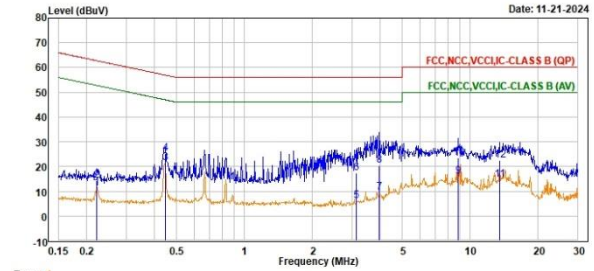


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.22	10.31	0.68	9.63	52.73	-42.42 Average	line1
2	0.22	13.75	4.12	9.63	62.73	-48.98 QP	line1
3	0.44	20.73	11.10	9.63	47.02	-26.29 Average	line1
4	0.44	24.72	15.09	9.63	57.02	-32.30 QP	line1
5	0.67	11.53	1.90	9.63	46.00	-34.47 Average	line1
6	0.67	18.00	8.37	9.63	56.00	-38.00 QP	line1
7	2.57	5.93	-3.73	9.66	46.00	-40.07 Average	line1
8	2.57	17.01	7.35	9.66	56.00	-38.99 QP	line1
9	3.70	8.33	-1.35	9.68	46.00	-37.67 Average	line1
10	3.70	21.63	11.95	9.68	56.00	-34.37 QP	line1
11	8.94	14.41	4.67	9.74	50.00	-35.59 Average	line1
12	8.94	22.62	12.88	9.74	60.00	-37.38 QP	line1



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Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.22	11.28	1.65	9.63	52.77	-41.49 Average	neutral
2	0.22	14.42	4.79	9.63	62.77	-48.35 QP	neutral
3	0.44	21.32	11.69	9.63	46.98	-25.66 Average	neutral
4	0.44	25.24	15.61	9.63	56.98	-31.74 QP	neutral
5	3.12	6.06	-3.62	9.68	46.00	-39.94 Average	neutral
6	3.12	17.24	7.56	9.68	56.00	-38.76 QP	neutral
7	3.97	9.34	-0.35	9.69	46.00	-36.66 Average	neutral
8	3.97	20.39	10.70	9.69	56.00	-35.61 QP	neutral
9	8.85	16.04	6.28	9.76	50.00	-33.96 Average	neutral
10	8.85	23.60	13.84	9.76	60.00	-36.40 QP	neutral
11	13.51	14.70	4.89	9.81	50.00	-35.30 Average	neutral
12	13.51	22.41	12.60	9.81	60.00	-37.59 QP	neutral

<EUT with Antenna 2_Molex>
Band Edges, 2.31GHz ~ 2.5GHz

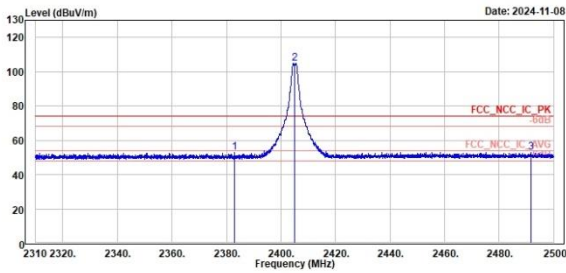
802.15.4

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



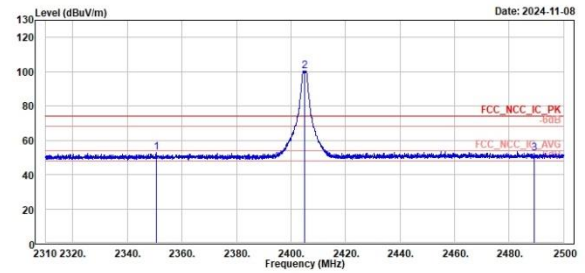
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2382.85	53.12	47.28	5.84	74.00	-20.88	386	20	Peak	Horizontal	
2 *	2405.00	104.77	98.87	5.90	74.00	30.77	386	20	Peak	Horizontal	
3	2491.56	52.67	46.52	6.15	74.00	-21.33	386	20	Peak	Horizontal	



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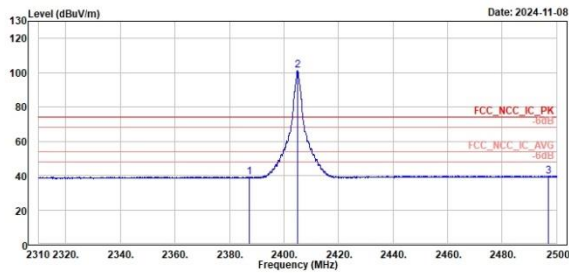
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2358.55	52.83	47.09	5.74	74.00	-21.17	388	112	Peak	Vertical	
2 *	2405.00	100.44	94.54	5.90	74.00	26.44	388	112	Peak	Vertical	
3	2489.32	52.62	46.47	6.15	74.00	-21.38	388	112	Peak	Vertical	

802.15.4

Low Channel (Horizontal) Average



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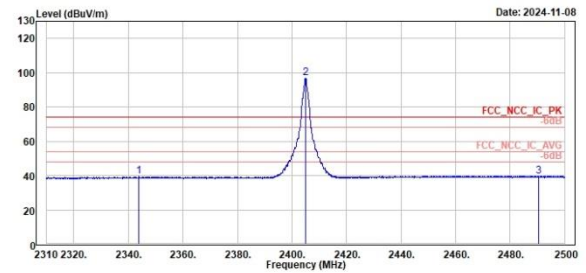


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.37	39.24	33.40	5.84	54.00	-14.76	386	20	Average	Horizontal		
2 *	2405.00	101.31	95.41	5.90	54.00	47.31	386	20	Average	Horizontal		
3	2497.07	39.59	33.44	6.15	54.00	-14.41	386	20	Average	Horizontal		

Low Channel (Vertical) Average



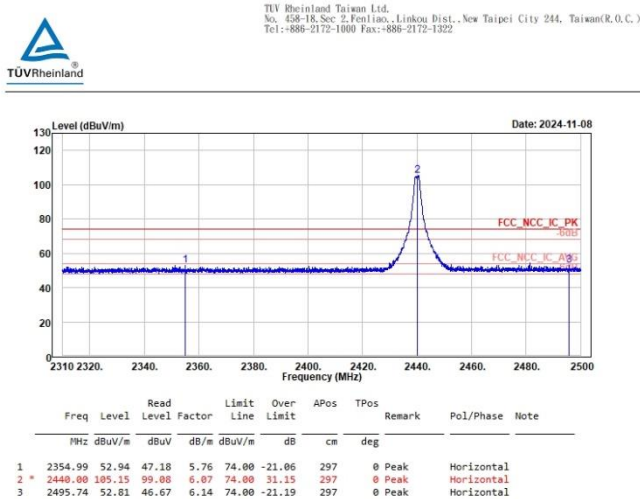
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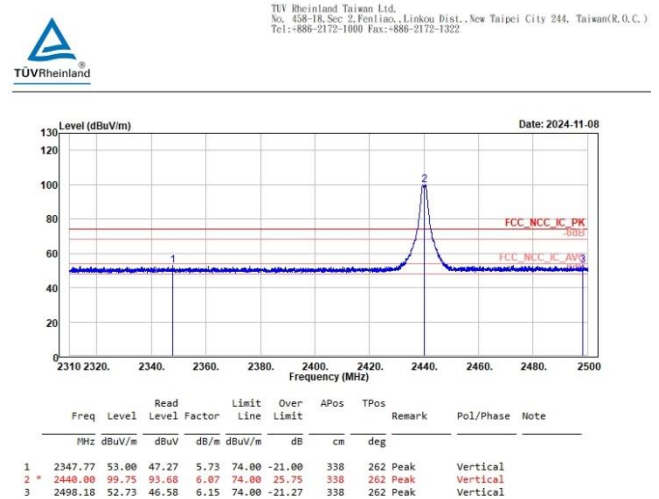
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2343.74	39.42	33.71	5.71	54.00	-14.58	388	112	Average	Vertical		
2 *	2405.00	96.88	90.98	5.90	54.00	42.88	388	112	Average	Vertical		
3	2490.58	39.67	33.52	6.15	54.00	-14.33	388	112	Average	Vertical		

802.15.4

Middle Channel (Horizontal) Peak



Middle Channel (Vertical) Peak

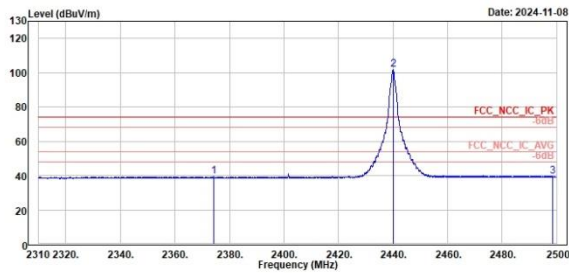


802.15.4

Middle Channel (Horizontal) Average



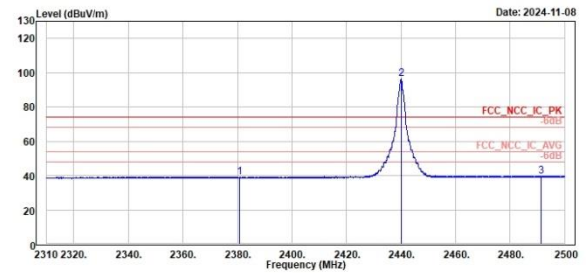
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Middle Channel (Vertical) Average



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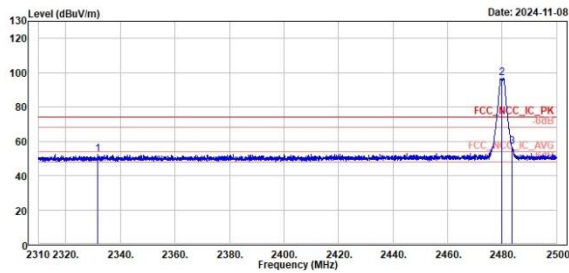


802.15.4

High Channel (Horizontal) Peak



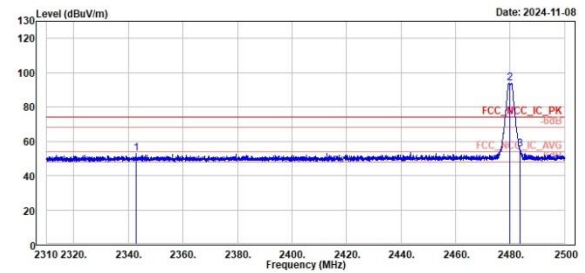
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2331.81	52.38	46.72	5.66	74.00	-21.62	365			0 Peak	Horizontal	
2 *	2480.00	96.68	90.55	6.13	74.00	22.68	365			0 Peak	Horizontal	
3	2483.62	56.96	50.82	6.14	74.00	-17.04	365			0 Peak	Horizontal	



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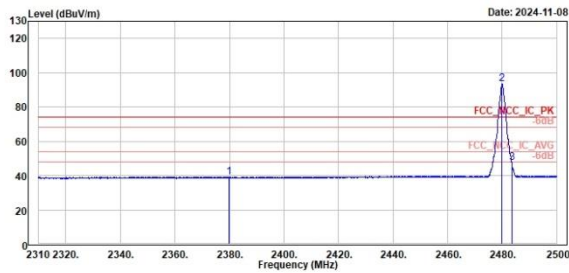
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1	2342.95	52.78	47.07	5.71	74.00	-21.22	400			248 Peak	Vertical	
2 *	2480.00	93.98	87.77	6.13	74.00	19.98	400			248 Peak	Vertical	
3	2483.51	55.57	49.43	6.14	74.00	-18.43	400			248 Peak	Vertical	

802.15.4

High Channel (Horizontal) Average



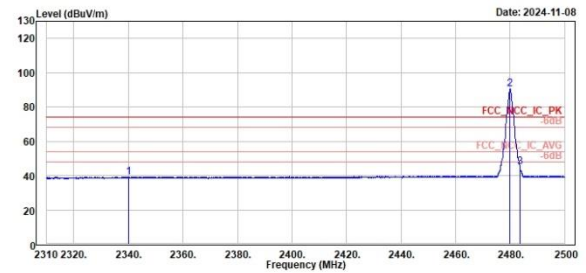
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2379.01	39.19	33.37	5.82	54.00	-14.81	365			0 Average	Horizontal	
2 *	2480.00	93.25	87.12	6.13	54.00	39.25	365			0 Average	Horizontal	
3	2483.51	47.32	41.18	6.14	54.00	-6.68	365			0 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	2340.02	39.23	33.53	5.70	54.00	-14.77	400			248 Average	Vertical	
2 *	2480.00	90.51	84.38	6.13	54.00	36.51	400			248 Average	Vertical	
3	2483.51	45.08	38.94	6.14	54.00	-8.92	400			248 Average	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

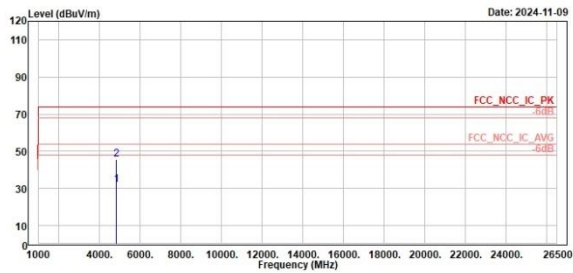
802.15.4

Low Channel (Horizontal)

Low Channel (Vertical)



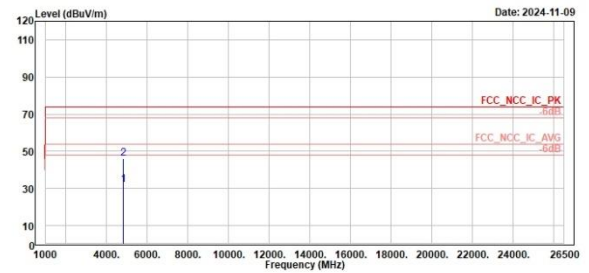
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4810.00	31.95	22.18	9.77	54.00	-22.05	180	120	Average	Horizontal		
2	4810.00	45.59	35.82	9.77	74.00	-28.41	180	120	Peak	Horizontal		



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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	4810.00	32.13	22.36	9.77	54.00	-21.67	180	208	Average	Vertical		
2	4810.00	45.92	36.15	9.77	74.00	-28.06	180	208	Peak	Vertical		

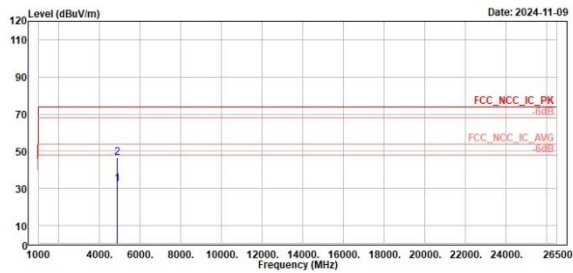
802.15.4

Middle Channel (Horizontal)

Middle Channel (Vertical)



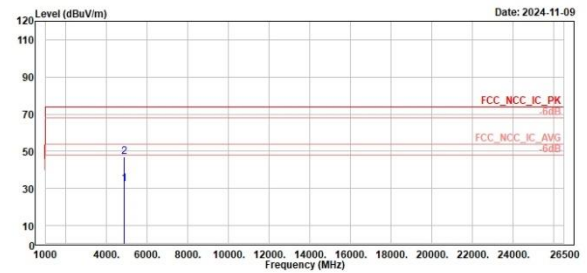
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	32.41	22.54	9.87	54.00	-21.59	100	106	Average	Horizontal		
2	4880.00	46.39	36.52	9.87	74.00	-27.61	100	106	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	32.38	22.51	9.87	54.00	-21.62	100	294	Average	Vertical		
2	4880.00	46.98	37.11	9.87	74.00	-27.02	100	294	Peak	Vertical		

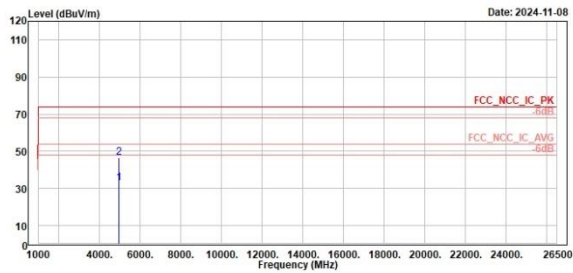
802.15.4

High Channel (Horizontal)

High Channel (Vertical)



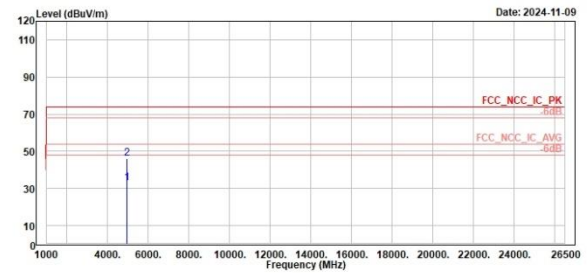
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	32.88	22.72	10.16	54.00	-21.12	180	165	Average	Horizontal		
2	4960.00	46.75	36.59	10.16	74.00	-27.25	180	165	Peak	Horizontal		



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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	32.76	22.60	10.16	54.00	-21.24	180	274	Average	Vertical		
2	4960.00	46.29	36.13	10.16	74.00	-27.71	180	274	Peak	Vertical		

<EUT with Antenna 3_TE>
Band Edges, 2.31GHz ~ 2.5GHz

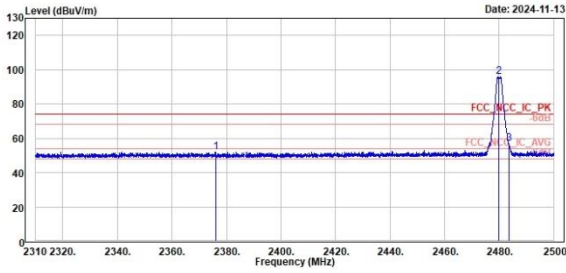
802.15.4

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



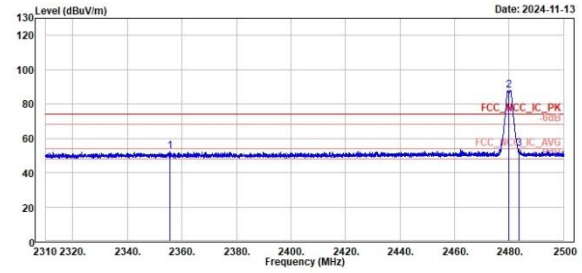
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2376.04	52.09	46.27	5.82	74.00	-21.91	255	275 Peak	Horizontal	
2 *	2480.00	95.69	89.56	6.13	74.00	21.69	255	275 Peak	Horizontal	
3	2483.58	56.83	50.69	6.14	74.00	-17.17	255	275 Peak	Horizontal	



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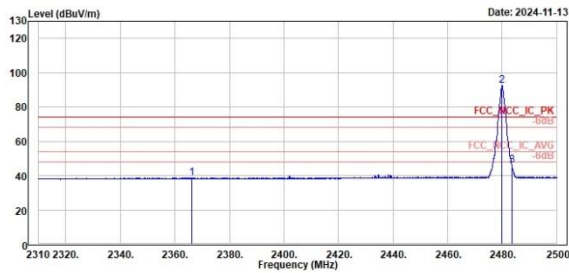
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2355.64	52.51	46.75	5.76	74.00	-21.49	321	169 Peak	Vertical	
2 *	2480.00	87.94	81.81	6.13	74.00	13.94	321	169 Peak	Vertical	
3	2483.70	53.74	47.60	6.14	74.00	-20.26	321	169 Peak	Vertical	

802.15.4

High Channel (Horizontal) Average



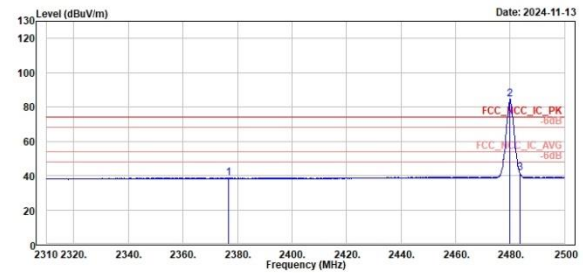
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2366.16	38.54	32.76	5.78	54.00	-15.46	255	275	Average	Horizontal	
2 *	2480.00	92.23	86.10	6.13	54.00	38.23	255	275	Average	Horizontal	
3	2483.51	46.10	39.96	6.14	54.00	-7.90	255	275	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	2376.65	38.62	32.80	5.82	54.00	-15.38	321	169	Average	Vertical	
2 *	2480.01	84.33	78.28	6.13	54.00	30.33	321	169	Average	Vertical	
3	2483.51	41.48	35.34	6.14	54.00	-12.52	321	169	Average	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

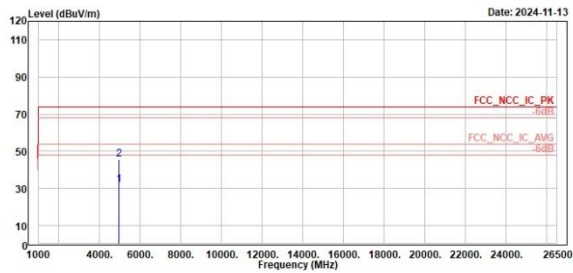
802.15.4

High Channel (Horizontal)

High Channel (Vertical)



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