

Test Report No.50342229 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50342229 001 Appendix D)

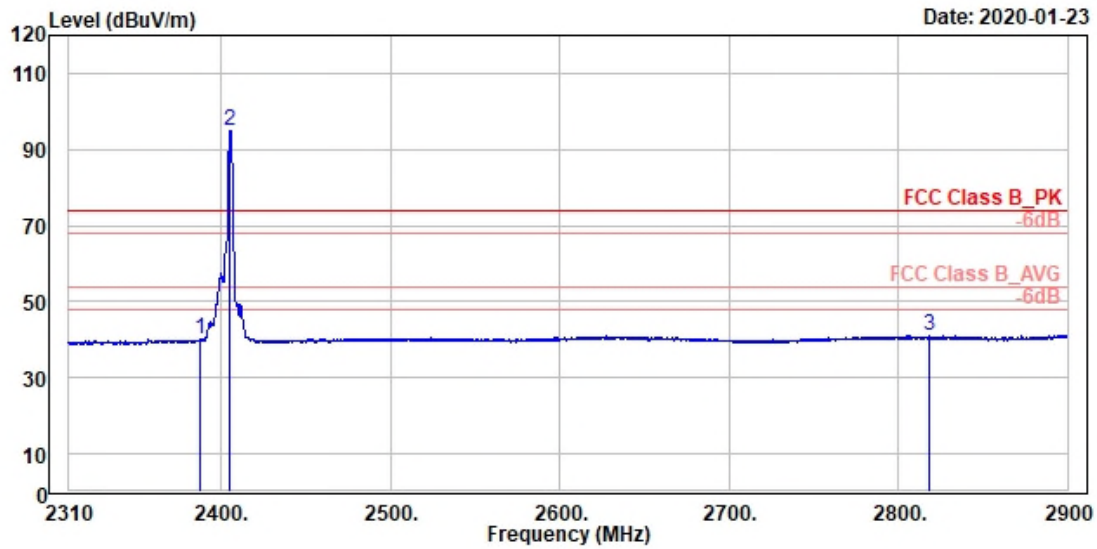
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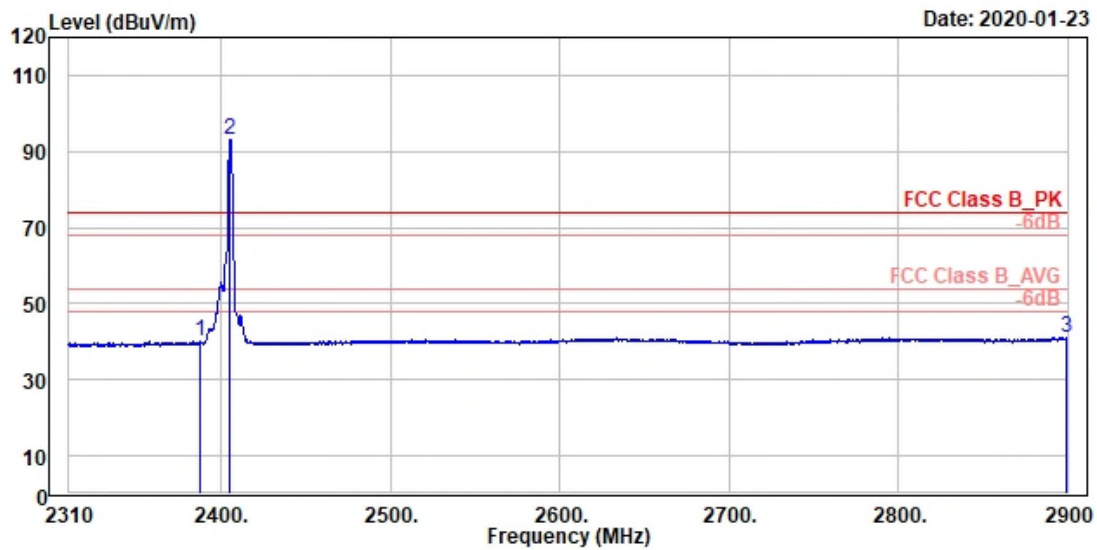
Spurious Emissions, Bandedge



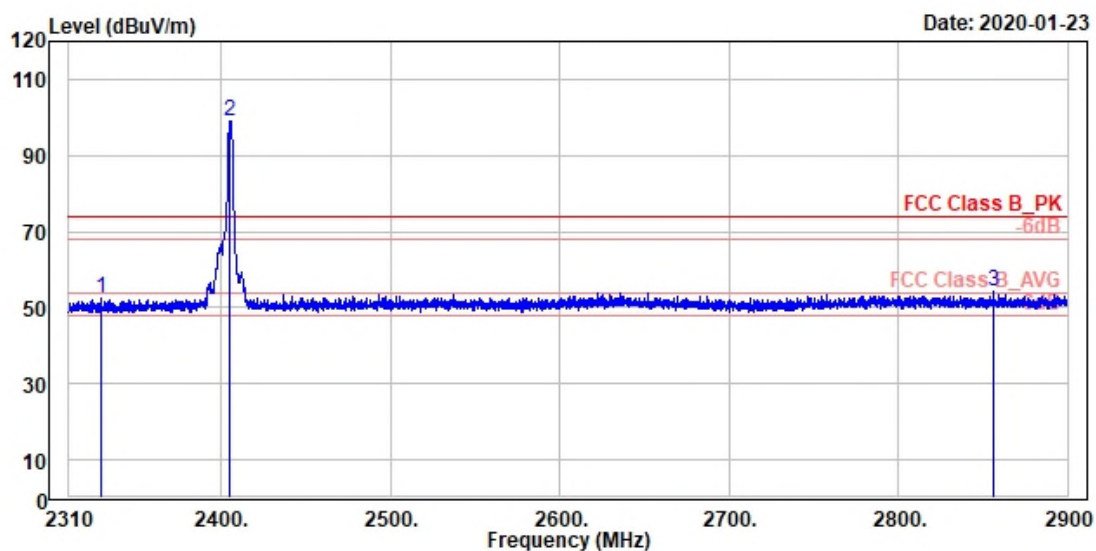
TÜV Rheinland Taiwan Ltd.
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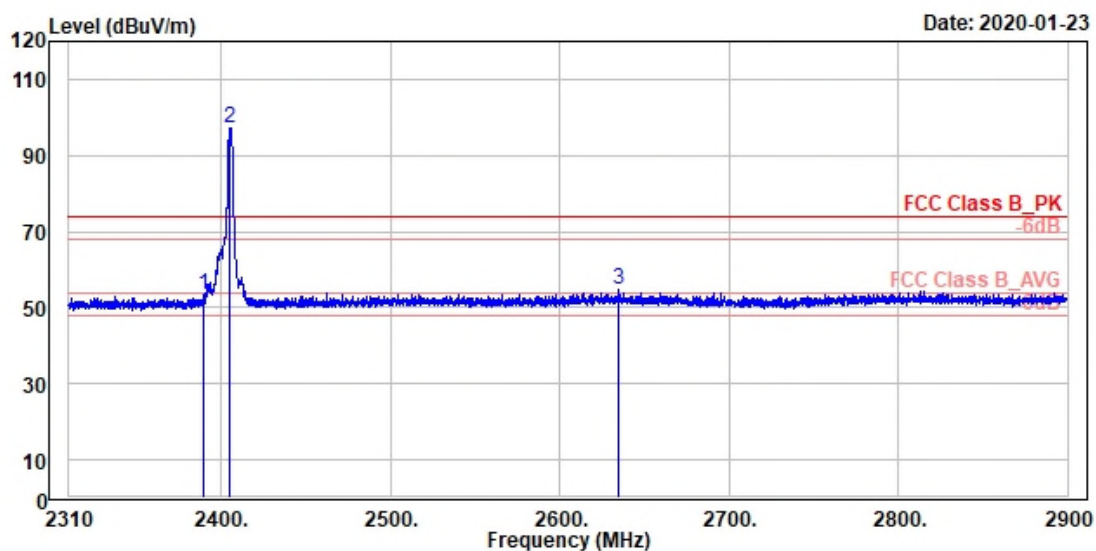
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1	2387.29	40.08	2.76	37.32	54.00	-13.92	103	50	Average	HORIZONTAL
2 *	2405.35	95.07	57.69	37.38	54.00	41.07	103	50	Average	HORIZONTAL
3	2818.23	41.00	3.03	37.97	54.00	-13.00	103	50	Average	HORIZONTAL



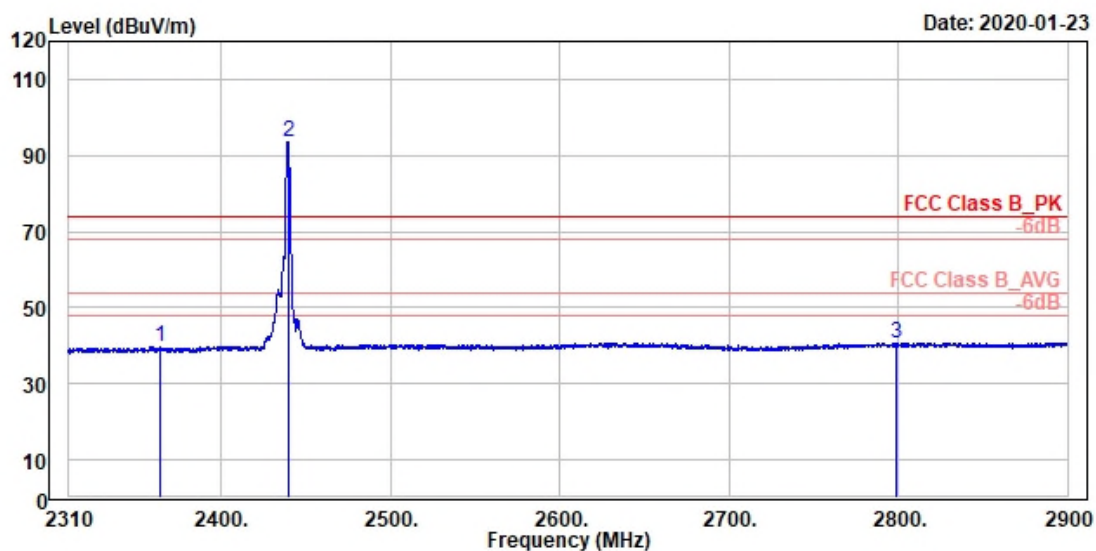
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1	2387.64	40.04	2.71	37.33	54.00	-13.96	100	279	Average	VERTICAL
2 *	2405.35	93.20	55.82	37.38	54.00	39.20	100	279	Average	VERTICAL
3	2899.65	41.07	2.75	38.32	54.00	-12.93	100	279	Average	VERTICAL



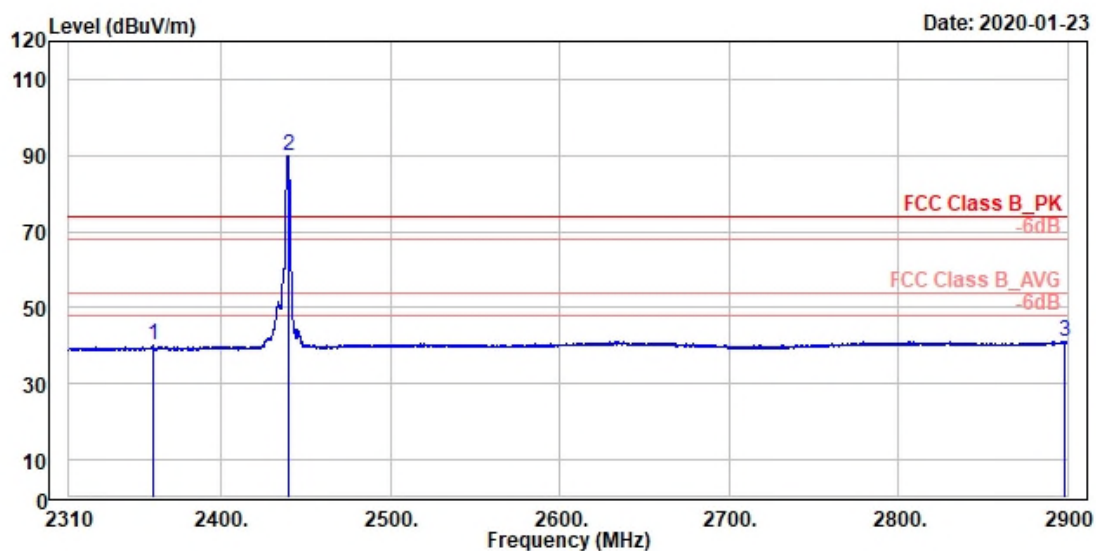
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1	2329.00	52.51	15.37	37.14	74.00	-21.49	103	50	Peak	HORIZONTAL
2 *	2405.35	99.17	61.79	37.38	74.00	25.17	103	50	Peak	HORIZONTAL
3	2856.81	54.24	16.14	38.10	74.00	-19.76	103	50	Peak	HORIZONTAL



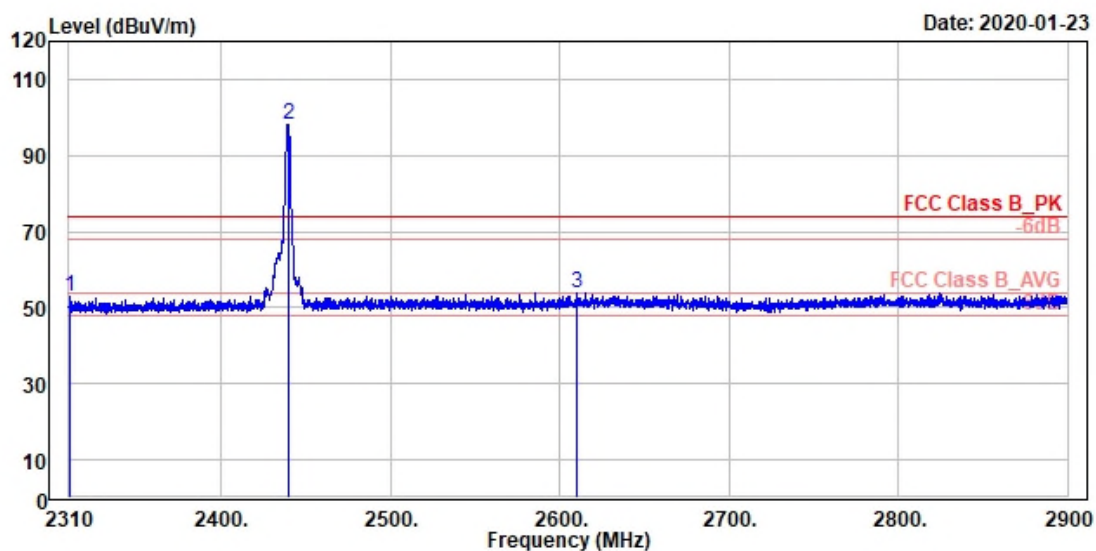
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1	2389.30	53.17	15.84	37.33	74.00	-20.83	100	279	Peak	VERTICAL
2 *	2405.35	97.31	59.93	37.38	74.00	23.31	100	279	Peak	VERTICAL
3	2634.97	54.63	16.74	37.89	74.00	-19.37	100	279	Peak	VERTICAL



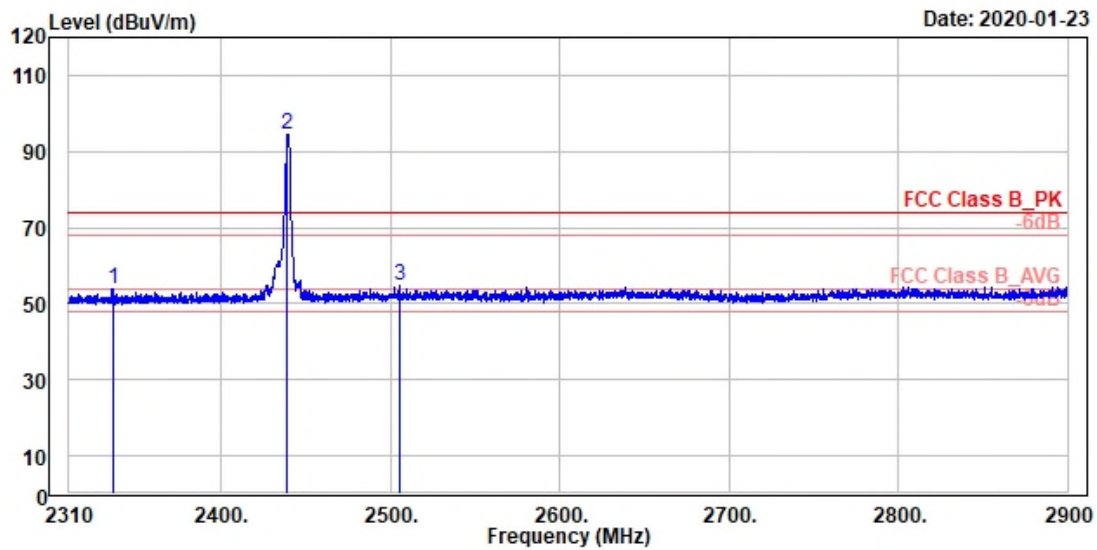
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1	2363.57	39.62	2.37	37.25	54.00	-14.38	112	53	Average	HORIZONTAL
2 *	2439.35	93.69	56.20	37.49	54.00	39.69	112	53	Average	HORIZONTAL
3	2798.87	40.82	2.91	37.91	54.00	-13.18	112	53	Average	HORIZONTAL



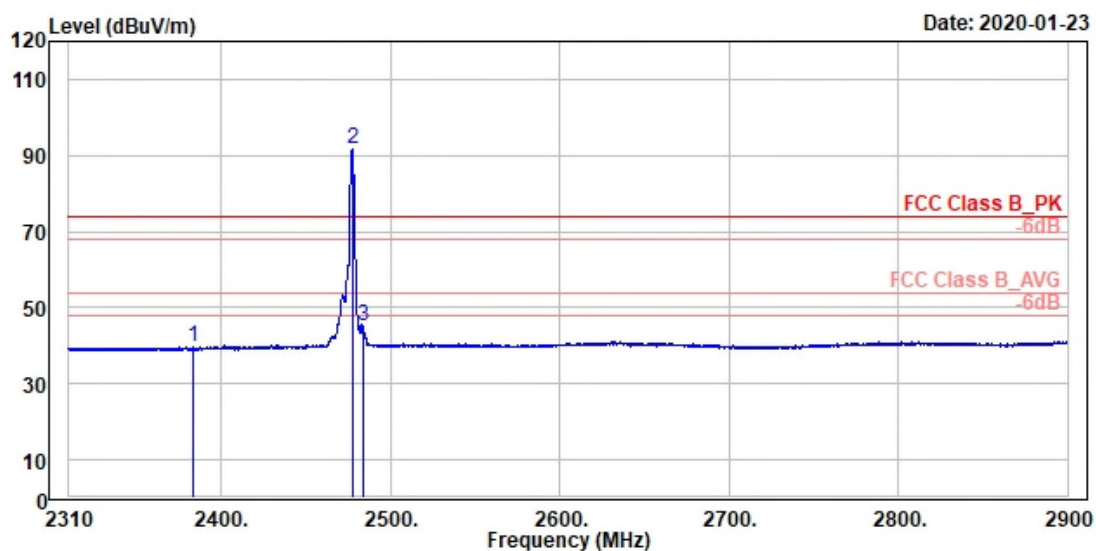
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1	2359.32	39.94	2.70	37.24	54.00	-14.06	100	325	Average	Vertical
2 *	2439.35	90.06	52.57	37.49	54.00	36.06	100	325	Average	Vertical
3	2898.11	41.04	2.73	38.31	54.00	-12.96	100	325	Average	Vertical



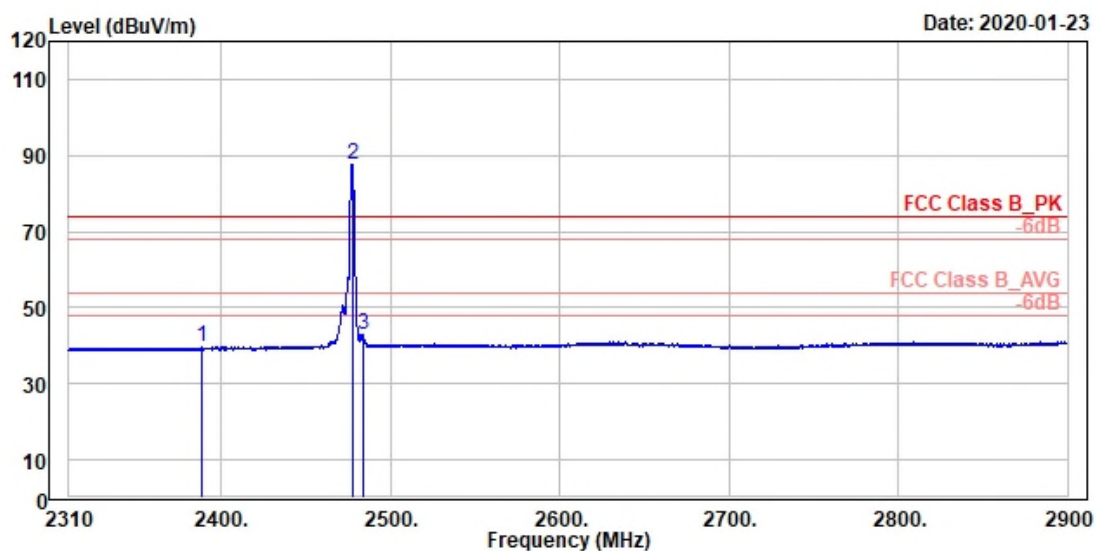
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1	2310.94	52.75	15.67	37.08	74.00	-21.25	112	53	Peak	HORIZONTAL
2 *	2439.35	98.02	60.53	37.49	74.00	24.02	112	53	Peak	HORIZONTAL
3	2610.31	53.92	15.96	37.96	74.00	-20.08	112	53	Peak	HORIZONTAL



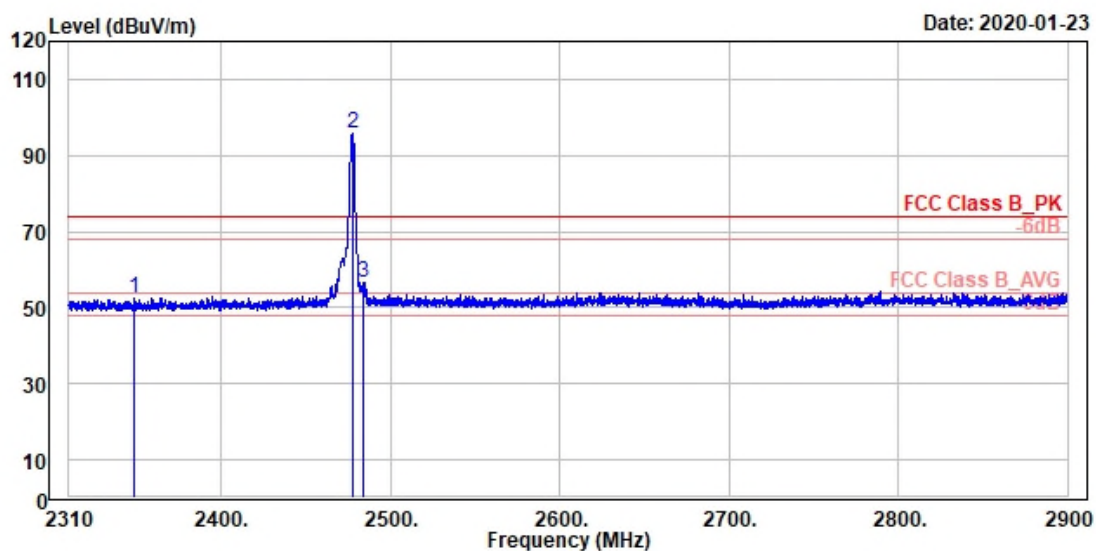
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2335.72	53.90	16.74	37.16	74.00	-20.10	100	325	Peak	Vertical
2 *	2439.21	94.26	56.77	37.49	74.00	20.26	100	325	Peak	Vertical
3	2505.17	54.76	17.15	37.61	74.00	-19.24	100	325	Peak	Vertical



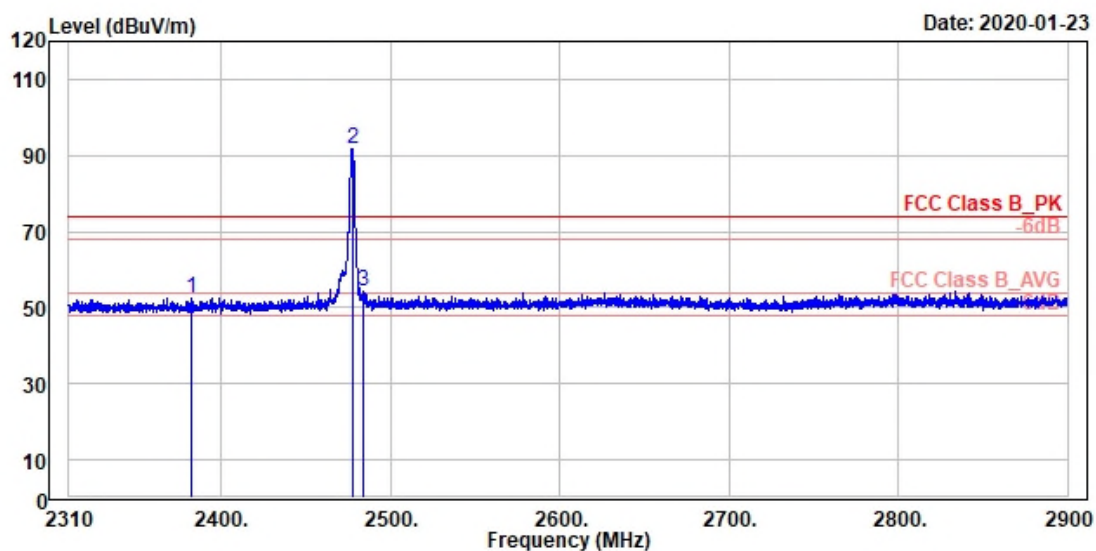
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2383.16	39.69	2.38	37.31	54.00	-14.31	153	54	Average	Horizontal
2 *	2477.35	91.51	53.96	37.55	54.00	37.51	153	54	Average	Horizontal
3	2483.93	45.19	7.63	37.56	54.00	-8.81	153	54	Average	Horizontal



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2388.94	39.62	2.29	37.33	54.00	-14.38	100	332	Average	VERTICAL
2 *	2477.35	87.64	50.09	37.55	54.00	33.64	100	332	Average	VERTICAL
3	2484.05	42.80	5.24	37.56	54.00	-11.20	100	332	Average	VERTICAL



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2348.11	52.65	15.45	37.20	74.00	-21.35	153	54	Peak	Horizontal
2 *	2477.35	95.59	58.04	37.55	74.00	21.59	153	54	Peak	Horizontal
3	2484.40	56.55	18.99	37.56	74.00	-17.45	153	54	Peak	Horizontal

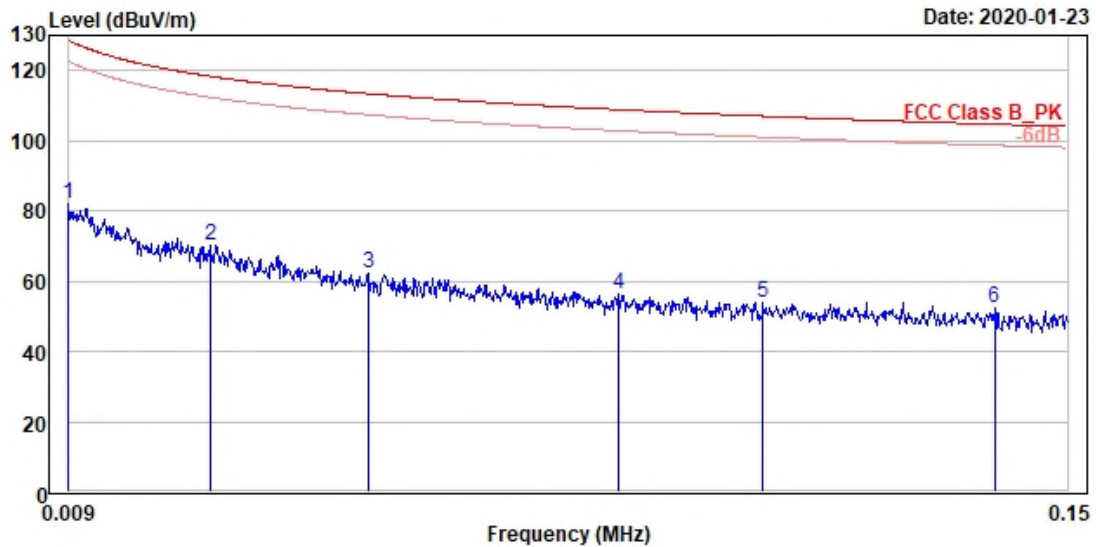


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2382.81	52.54	15.23	37.31	74.00	-21.46	100	332	Peak	VERTICAL
2 *	2477.35	91.56	54.01	37.55	74.00	17.56	100	332	Peak	VERTICAL
3	2483.93	54.27	16.71	37.56	74.00	-19.73	100	332	Peak	VERTICAL

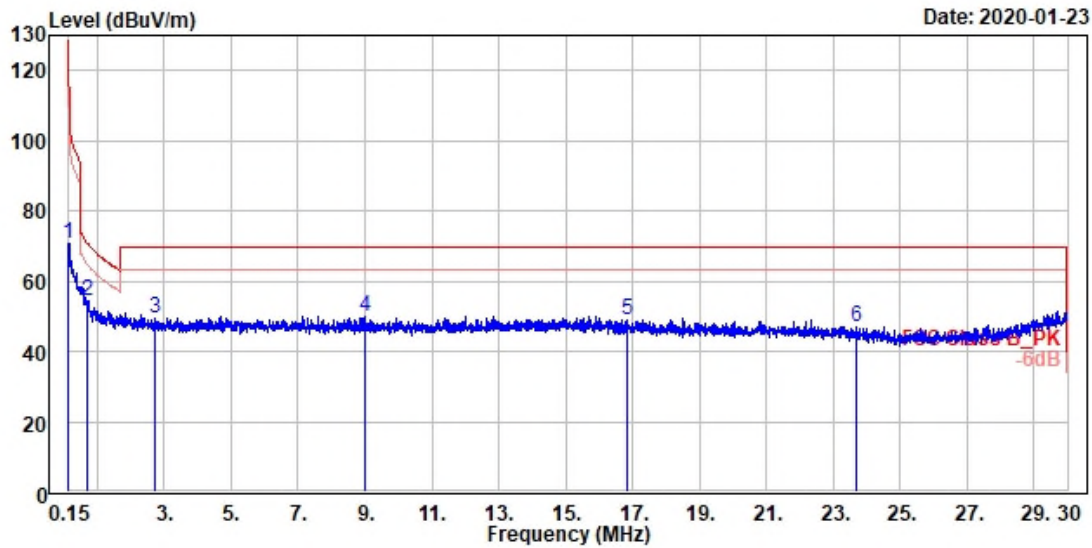
Spurious Emissions, TX Mode, 9kHz-30MHz



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	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	82.10	2.16	79.94	128.50	-46.40	100	149	QP	vertical
2	0.03	70.43	-0.51	70.94	118.38	-47.95	100	155	QP	vertical
3	0.05	62.47	-2.40	64.87	113.39	-50.92	100	36	QP	vertical
4	0.09	56.14	-4.57	60.71	108.84	-52.70	100	88	QP	vertical
5	0.11	53.98	-4.86	58.84	107.01	-53.03	100	177	QP	vertical
6	0.14	52.45	-4.50	56.95	104.69	-52.24	100	228	QP	vertical

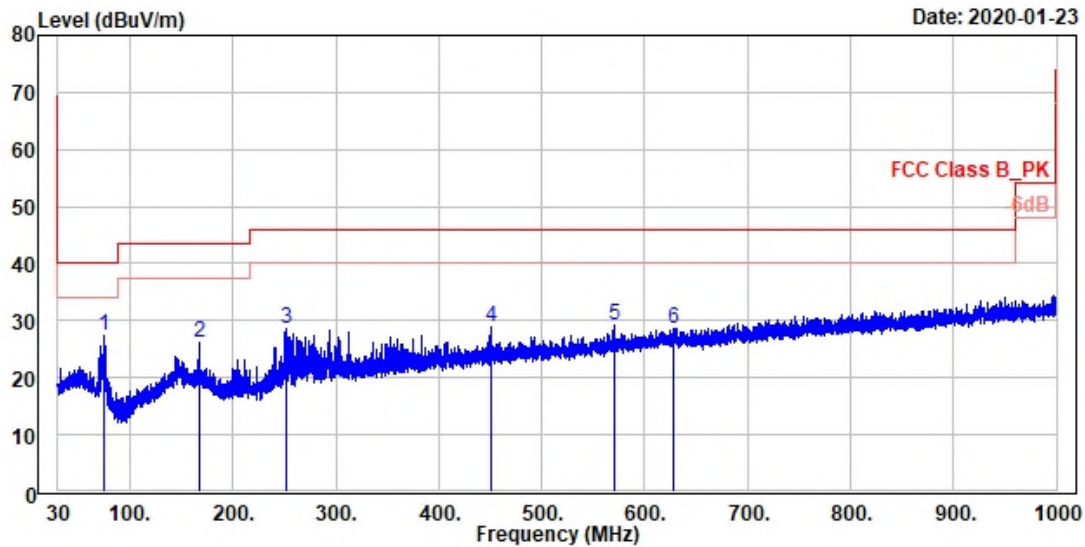


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.15	70.75	14.40	56.35	104.08	-33.33	100	193	QP	vertical
2	0.71	54.28	11.21	43.07	70.64	-16.36	100	106	QP	vertical
3	2.72	49.35	11.00	38.35	69.50	-20.15	100	285	QP	vertical
4	8.98	49.85	12.06	37.79	69.50	-19.65	100	62	QP	vertical
5	16.85	48.84	11.64	37.20	69.50	-20.66	100	197	QP	vertical
6	23.69	47.16	12.06	35.10	69.50	-22.34	100	287	QP	vertical

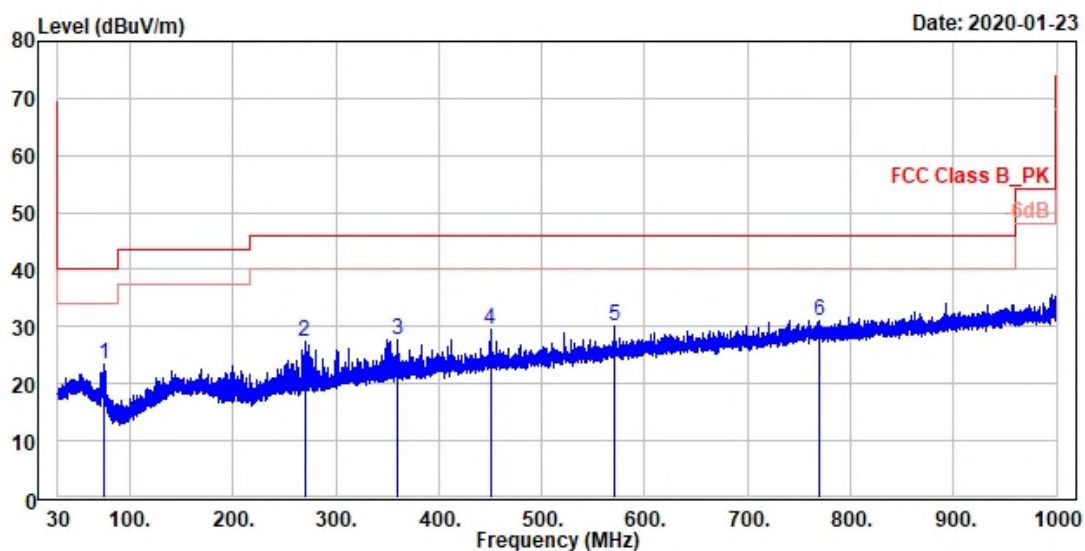
Spurious Emissions, TX Mode, 30MHz-1GHz



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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	75.01	27.51	38.60	-11.09	40.00	-12.49	300	173	QP	horizontal
2	168.03	26.15	33.36	-7.21	43.50	-17.35	169	360	QP	horizontal
3	251.84	28.68	36.72	-8.04	46.00	-17.32	100	266	QP	horizontal
4	450.30	28.83	32.56	-3.73	46.00	-17.17	300	255	QP	horizontal
5	570.00	29.22	31.05	-1.83	46.00	-16.78	100	253	QP	horizontal
6	627.91	28.59	29.36	-0.77	46.00	-17.41	300	0	QP	horizontal

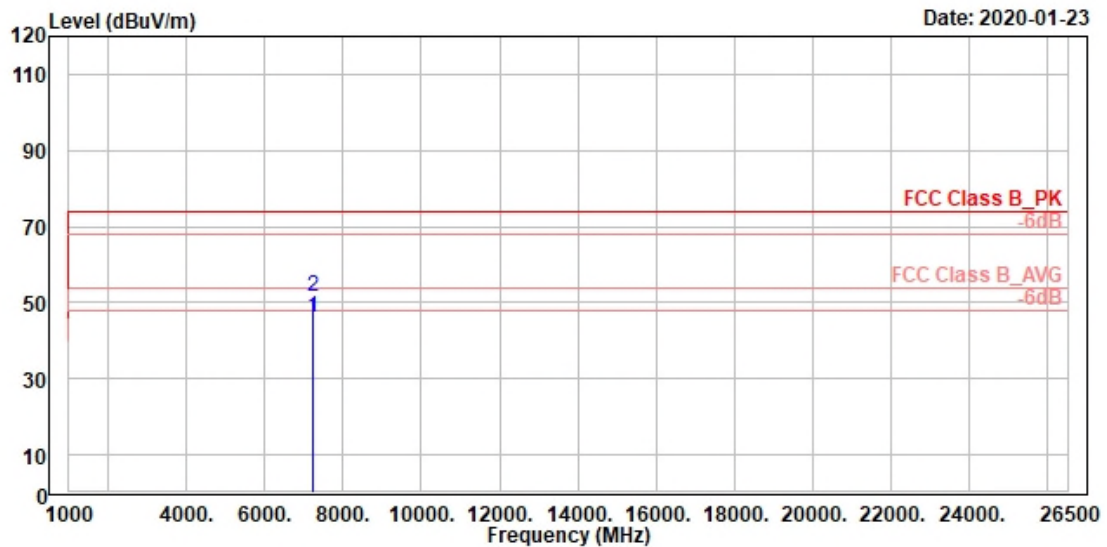


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	73.94	23.41	34.30	-10.89	40.00	-16.59	100	248	QP	vertical
2	269.59	27.38	34.83	-7.45	46.00	-18.62	200	0	QP	vertical
3	359.99	27.81	33.34	-5.53	46.00	-18.19	201	0	QP	vertical
4	450.11	29.55	33.29	-3.74	46.00	-16.45	183	360	QP	vertical
5	570.19	30.13	31.95	-1.82	46.00	-15.87	115	360	QP	vertical
6	769.33	31.12	29.69	1.43	46.00	-14.88	300	307	QP	vertical

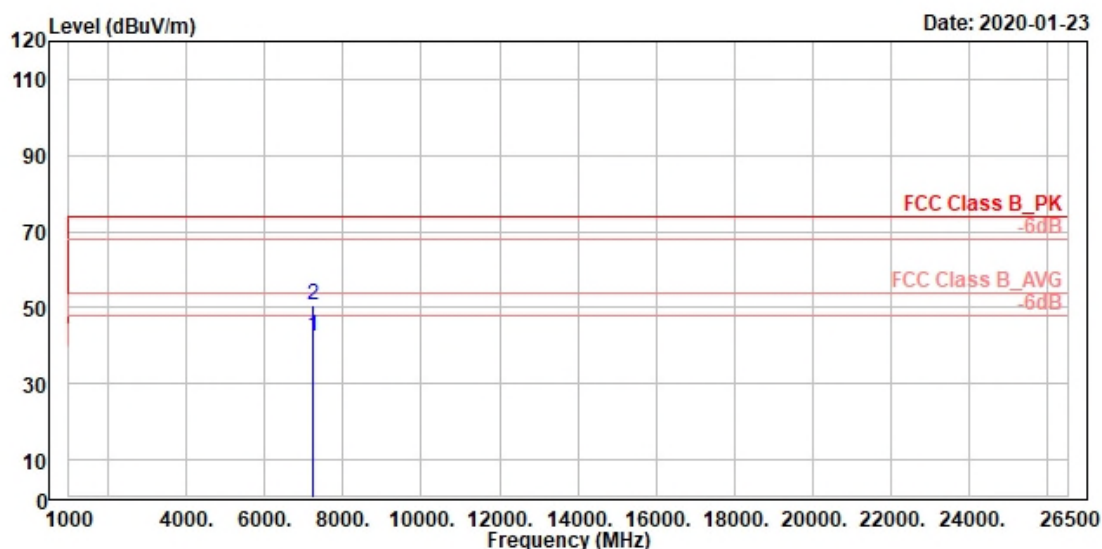
Spurious Emissions, TX Mode, 1GHz-26.5GHz



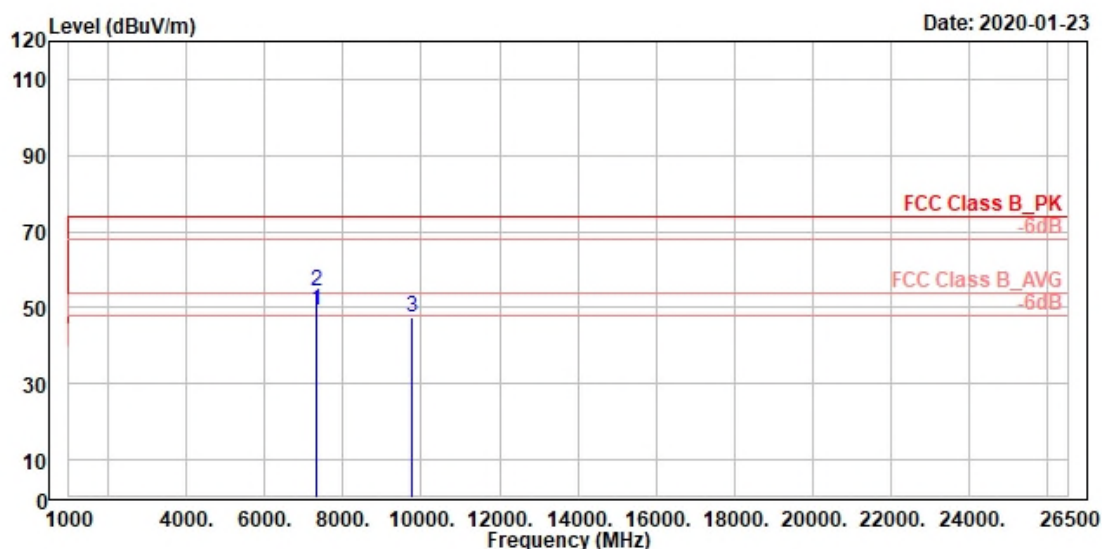
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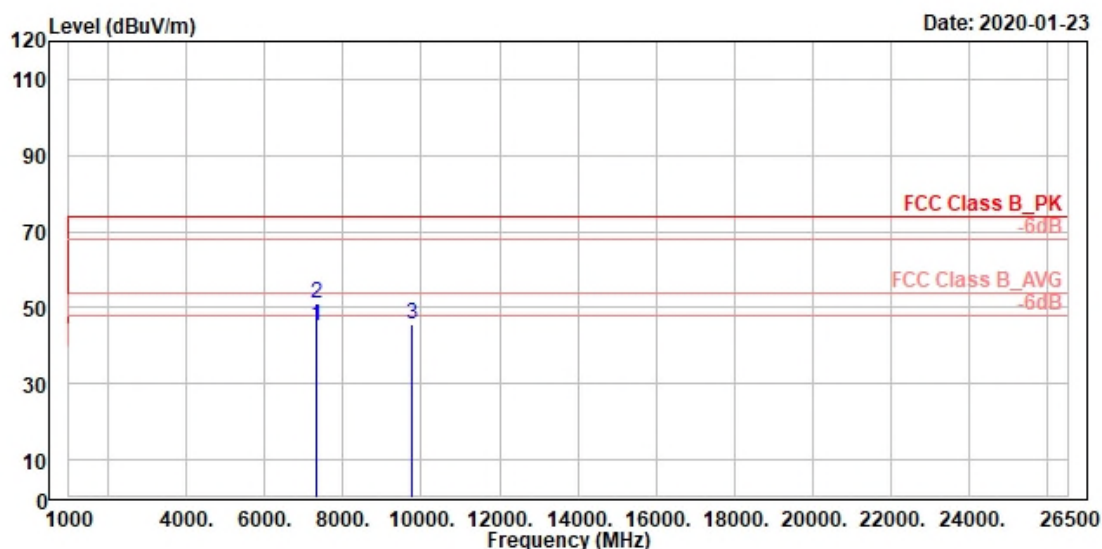
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	7216.35	45.91	53.61	-7.70	54.00	-8.09	100	241	Average	horizontal
2	7216.35	51.58	59.28	-7.70	74.00	-22.42	100	241	Peak	horizontal



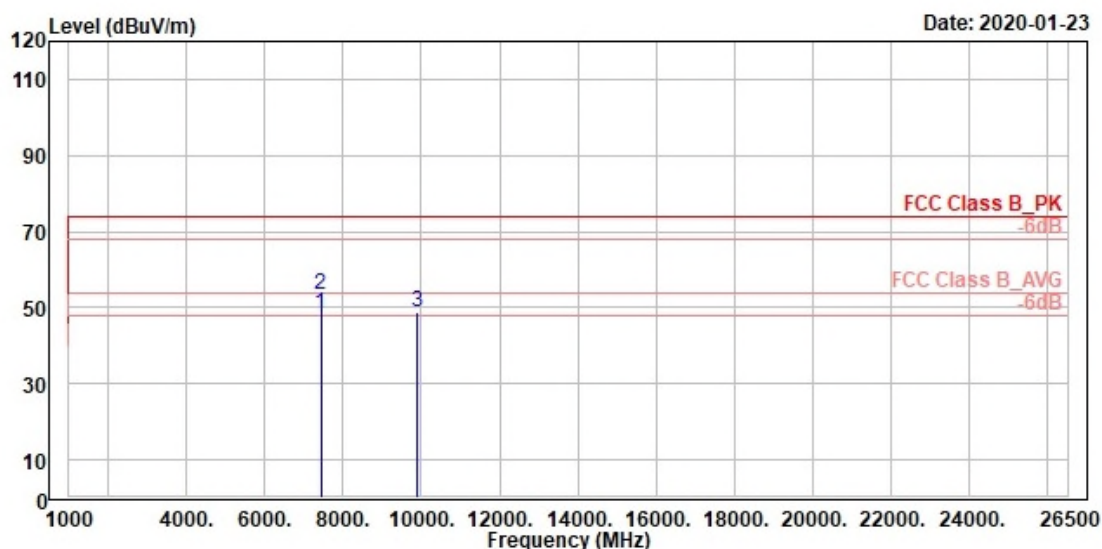
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	7216.35	42.62	50.32	-7.70	54.00	-11.38	100	243	Average	vertical
2	7216.35	50.71	58.41	-7.70	74.00	-23.29	100	243	Peak	vertical



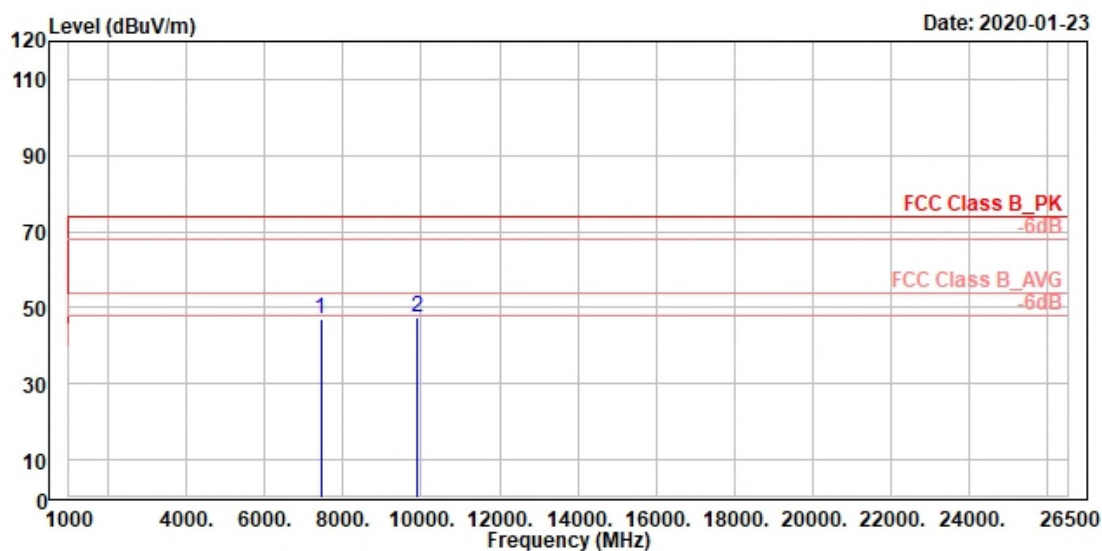
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1 !	7318.05	49.08	56.85	-7.77	54.00	-4.92	100	251	Average	horizontal
2	7318.05	54.48	62.25	-7.77	74.00	-19.52	100	251	Peak	horizontal
3	9754.40	47.68	52.64	-4.96	74.00	-26.32	100	194	Peak	horizontal



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	7318.08	45.07	52.84	-7.77	54.00	-8.93	100	244	Average	vertical
2	7318.08	51.03	58.80	-7.77	74.00	-22.97	100	244	Peak	vertical
3	9757.40	45.74	50.70	-4.96	74.00	-28.26	100	123	Peak	vertical



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1 !	7432.05	48.41	56.11	-7.70	54.00	-5.59	100	284	Average	horizontal
2	7432.05	53.59	61.29	-7.70	74.00	-20.41	100	284	Peak	horizontal
3	9909.40	48.79	53.49	-4.70	74.00	-25.21	200	213	Peak	horizontal

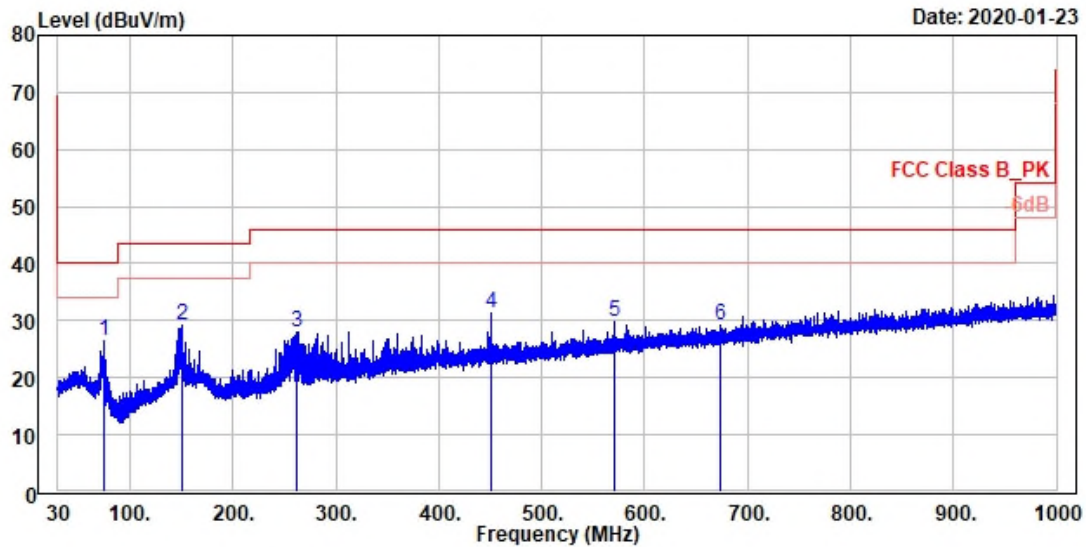


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	7432.05	47.21	54.91	-7.70	74.00	-26.79	100	264	Peak	vertical
2	9909.40	47.28	51.98	-4.70	74.00	-26.72	400	260	Peak	vertical

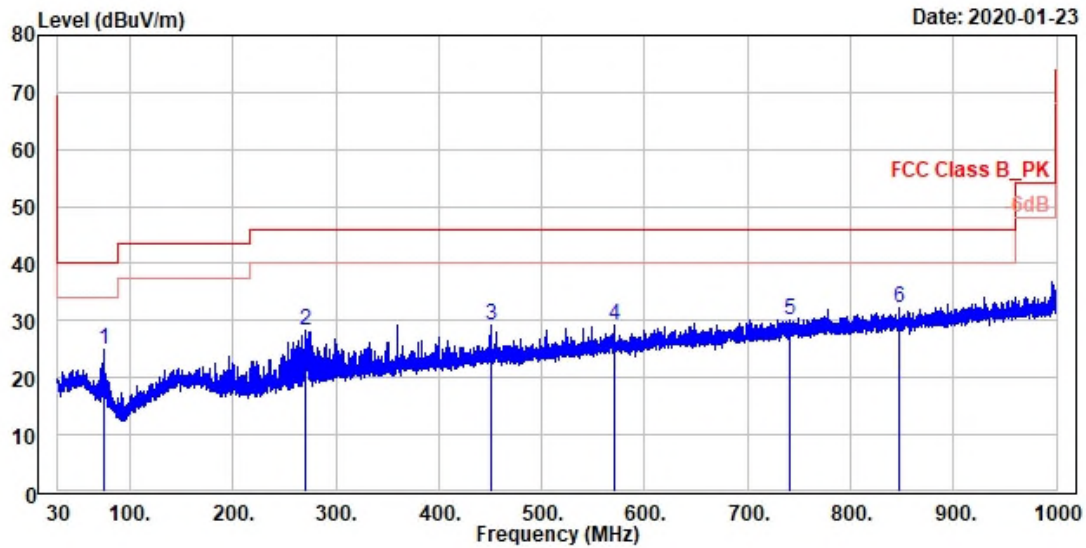
Spurious Emissions, RX Mode, 9kHz-30MHz



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	Freq	Level	Read		Limit	Over	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	Level	Factor	Line	Limit				
			dBuV	dB/m	dBuV/m	dB	cm	deg		
1	73.94	26.42	37.31	-10.89	40.00	-13.58	300	180	QP	horizontal
2	149.99	29.21	36.89	-7.68	43.50	-14.29	200	166	QP	horizontal
3	262.02	28.12	35.88	-7.76	46.00	-17.88	100	186	QP	horizontal
4	450.20	31.23	34.97	-3.74	46.00	-14.77	400	278	QP	horizontal
5	570.48	29.69	31.50	-1.81	46.00	-16.31	100	242	QP	horizontal
6	673.01	29.07	29.43	-0.36	46.00	-16.93	400	186	QP	horizontal

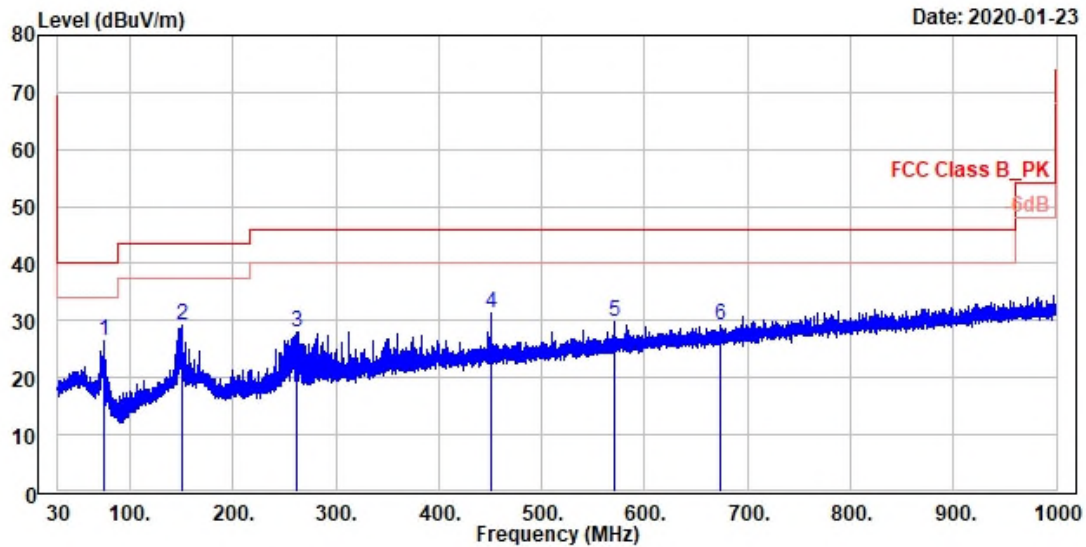


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	74.81	25.01	36.08	-11.07	40.00	-14.99	100	273	QP	vertical
2	270.95	28.41	35.79	-7.38	46.00	-17.59	200	19	QP	vertical
3	450.30	29.20	32.93	-3.73	46.00	-16.80	137	360	QP	vertical
4	569.90	29.28	31.11	-1.83	46.00	-16.72	100	329	QP	vertical
5	741.50	30.09	29.15	0.94	46.00	-15.91	400	237	QP	vertical
6	847.32	32.13	29.78	2.35	46.00	-13.87	124	360	QP	vertical

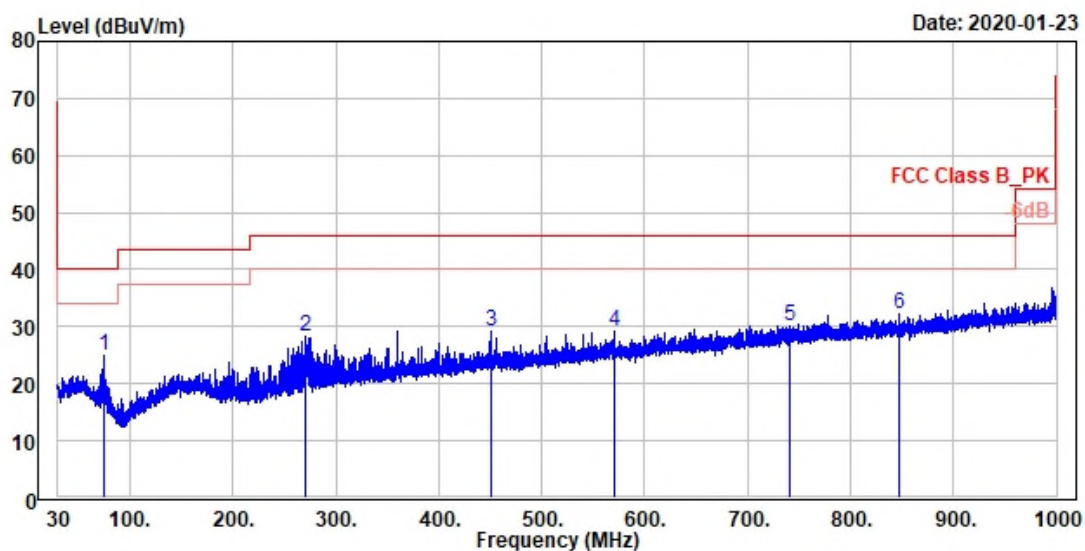
Spurious Emissions, RX Mode, 30MHz-1GHz



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	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	73.94	26.42	37.31	-10.89	40.00	-13.58	300	180	QP	horizontal
2	149.99	29.21	36.89	-7.68	43.50	-14.29	200	166	QP	horizontal
3	262.02	28.12	35.88	-7.76	46.00	-17.88	100	186	QP	horizontal
4	450.20	31.23	34.97	-3.74	46.00	-14.77	400	278	QP	horizontal
5	570.48	29.69	31.50	-1.81	46.00	-16.31	100	242	QP	horizontal
6	673.01	29.07	29.43	-0.36	46.00	-16.93	400	186	QP	horizontal

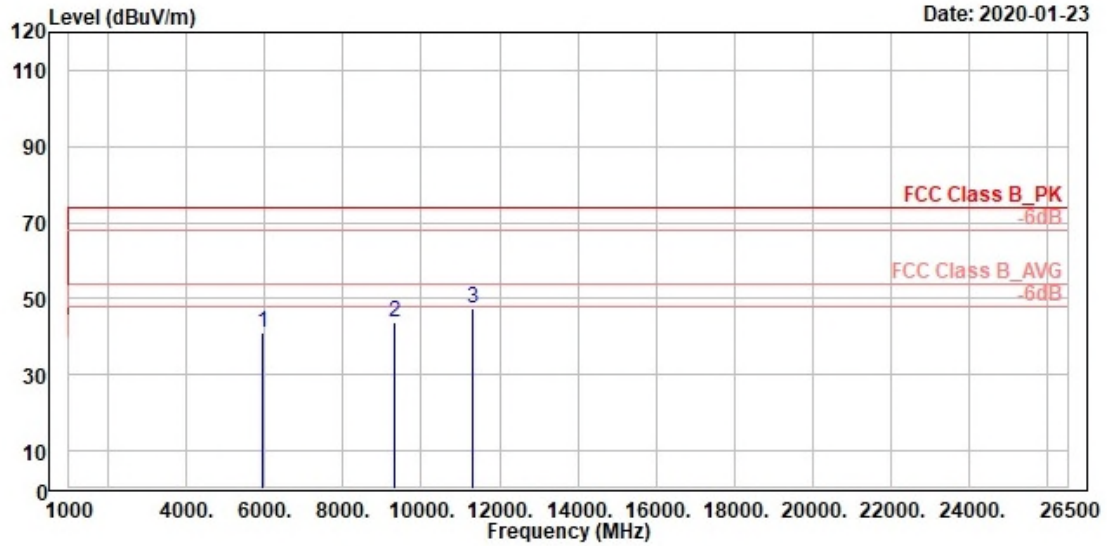


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	74.81	25.01	36.08	-11.07	40.00	-14.99	100	273	QP	vertical
2	270.95	28.41	35.79	-7.38	46.00	-17.59	200	19	QP	vertical
3	450.30	29.20	32.93	-3.73	46.00	-16.80	137	360	QP	vertical
4	569.90	29.28	31.11	-1.83	46.00	-16.72	100	329	QP	vertical
5	741.50	30.09	29.15	0.94	46.00	-15.91	400	237	QP	vertical
6	847.32	32.13	29.78	2.35	46.00	-13.87	124	360	QP	vertical

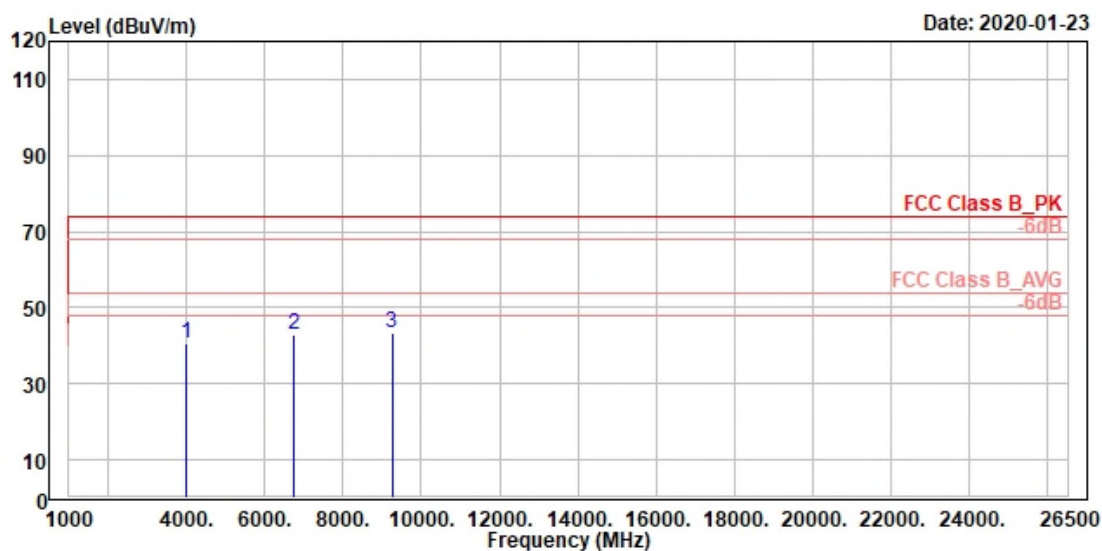
Spurious Emissions, RX Mode, 1GHz-26.5GHz



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	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	5960.22	41.23	49.44	-8.21	74.00	-32.77	100	178	Peak	horizontal
2	9328.11	43.65	49.18	-5.53	74.00	-30.35	100	246	Peak	horizontal
3	11308.61	47.28	49.34	-2.06	74.00	-26.72	100	0	Peak	horizontal

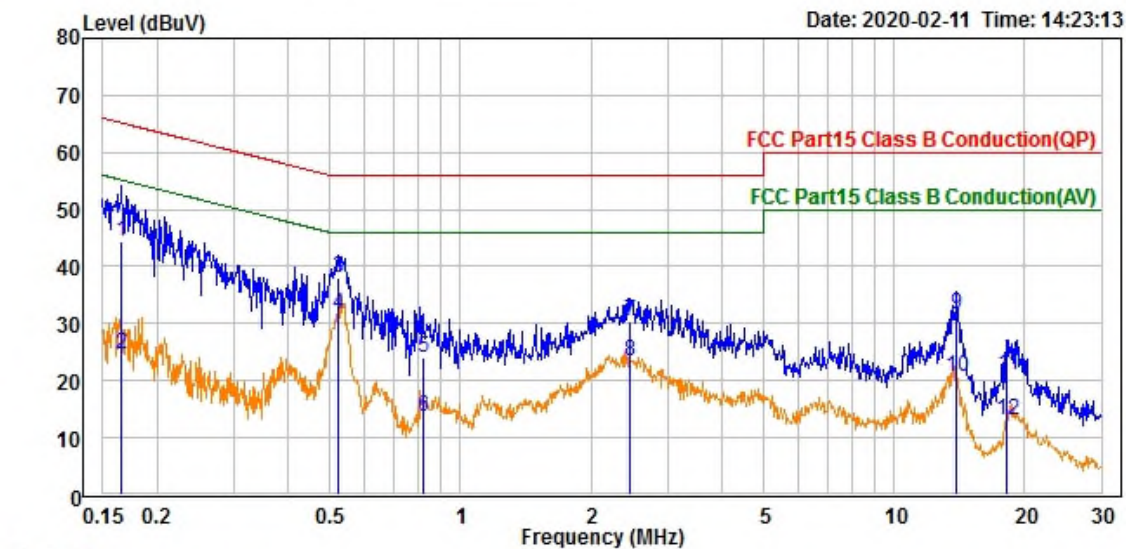


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	3992.94	40.46	52.00	-11.54	74.00	-33.54	100	320	Peak	vertical
2	6741.28	42.77	50.67	-7.90	74.00	-31.23	100	317	Peak	vertical
3	9249.72	43.23	48.88	-5.65	74.00	-30.77	100	360	Peak	vertical

Spurious Emissions, AC Mains

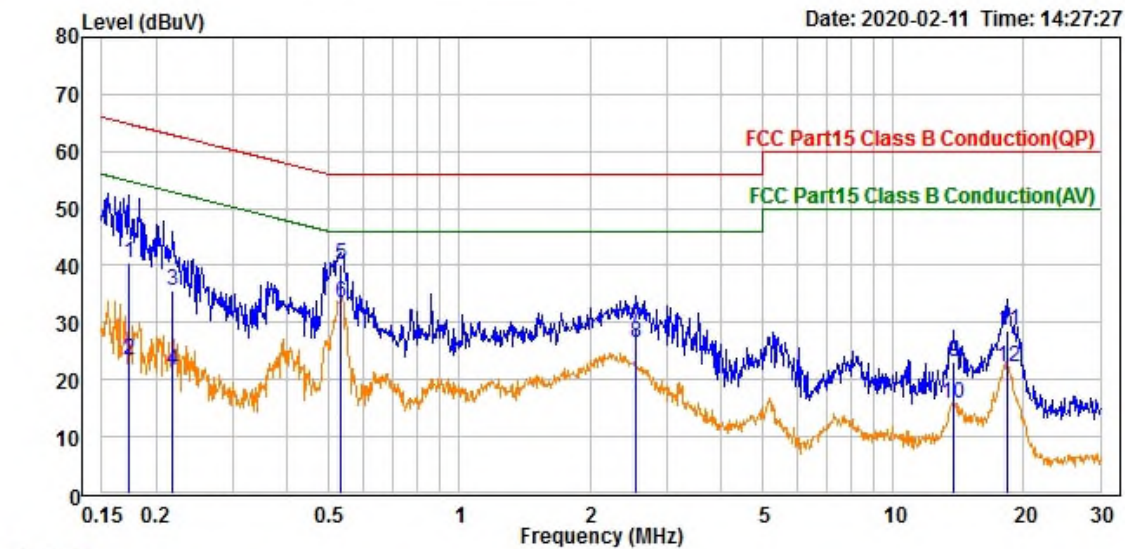


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Trace: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.166	34.67	9.61	44.28	65.17	-20.89	QP
2	0.166	15.13	9.61	24.74	55.17	-30.43	Average
3	0.522	28.51	9.62	38.13	56.00	-17.87	QP
4	0.522	22.03	9.62	31.65	46.00	-14.35	Average
5	0.821	14.27	9.62	23.89	56.00	-32.11	QP
6	0.821	3.99	9.62	13.61	46.00	-32.39	Average
7	2.470	20.76	9.65	30.41	56.00	-25.59	QP
8	2.470	13.92	9.65	23.57	46.00	-22.43	Average
9	13.924	21.75	9.75	31.50	60.00	-28.50	QP
10	13.924	11.03	9.75	20.78	50.00	-29.22	Average
11	18.225	11.31	9.78	21.09	60.00	-38.91	QP
12	18.225	3.45	9.78	13.23	50.00	-36.77	Average



Trace: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.172	30.79	9.62	40.41	64.84	-24.43	QP
2	0.172	13.94	9.62	23.56	54.84	-31.28	Average
3	0.218	26.01	9.62	35.63	62.90	-27.27	QP
4	0.218	11.92	9.62	21.54	52.90	-31.36	Average
5	0.535	30.46	9.63	40.09	56.00	-15.91	QP
6	0.535	23.96	9.63	33.59	46.00	-12.41	Average
7	2.545	19.37	9.66	29.03	56.00	-26.97	QP
8	2.545	16.67	9.66	26.33	46.00	-19.67	Average
9	13.717	13.36	9.78	23.14	60.00	-36.86	QP
10	13.717	6.06	9.78	15.84	50.00	-34.16	Average
11	18.407	18.67	9.82	28.49	60.00	-31.51	QP
12	18.407	12.35	9.82	22.17	50.00	-27.83	Average