

Test Report No. NN20SYJ0 001

Appendix A: Radiated and Mains Spurious Emission Data

(File: NN20SYJ0 001 Appendix A)

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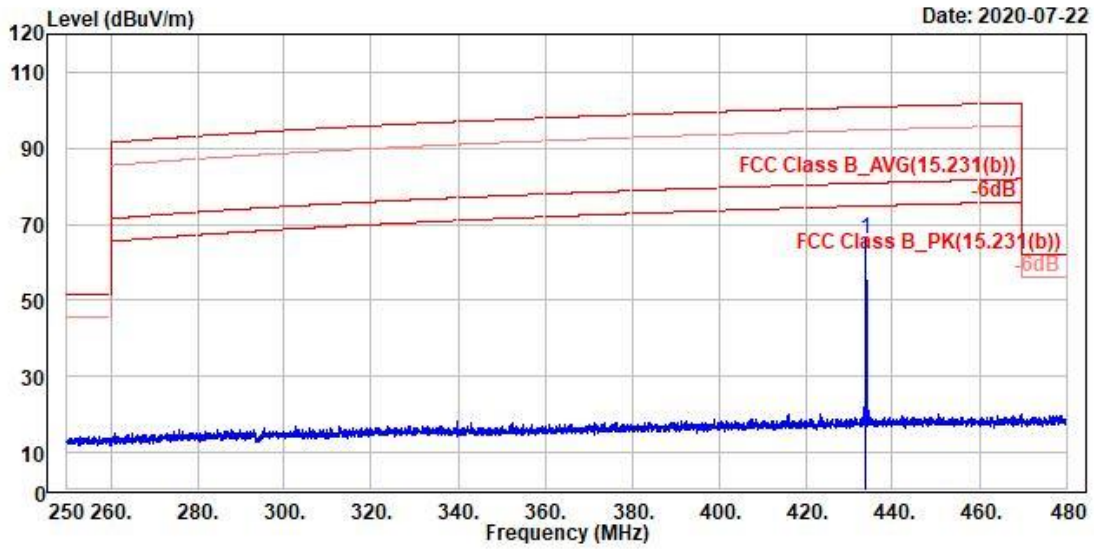
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Spurious Emissions, Band Edges

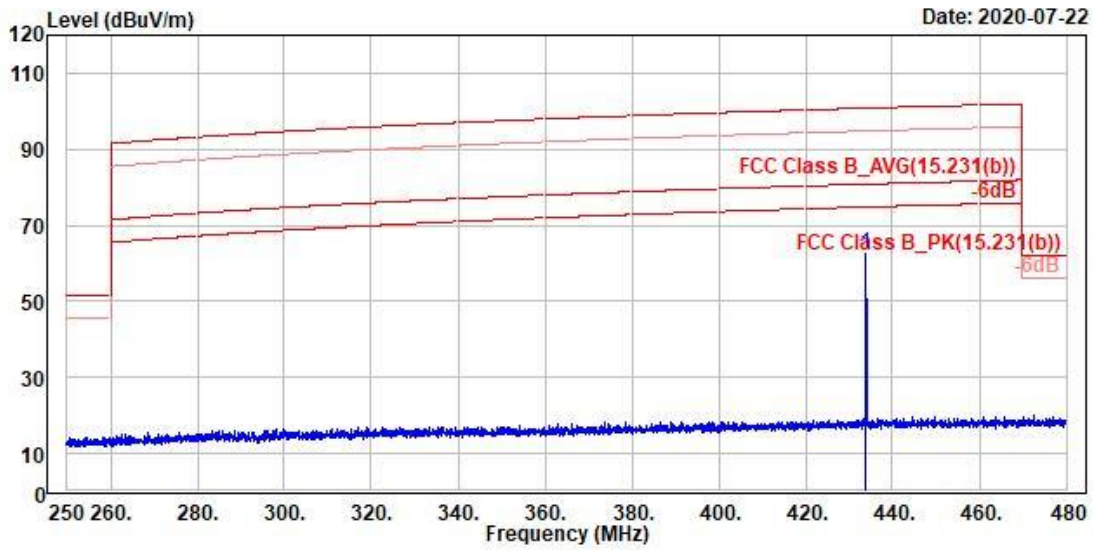
433.92MHz



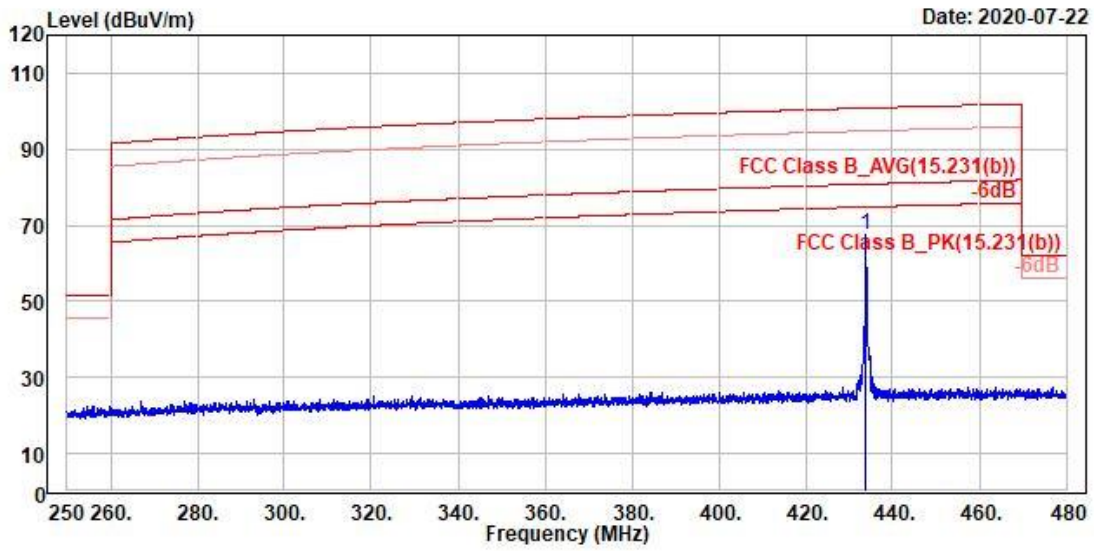
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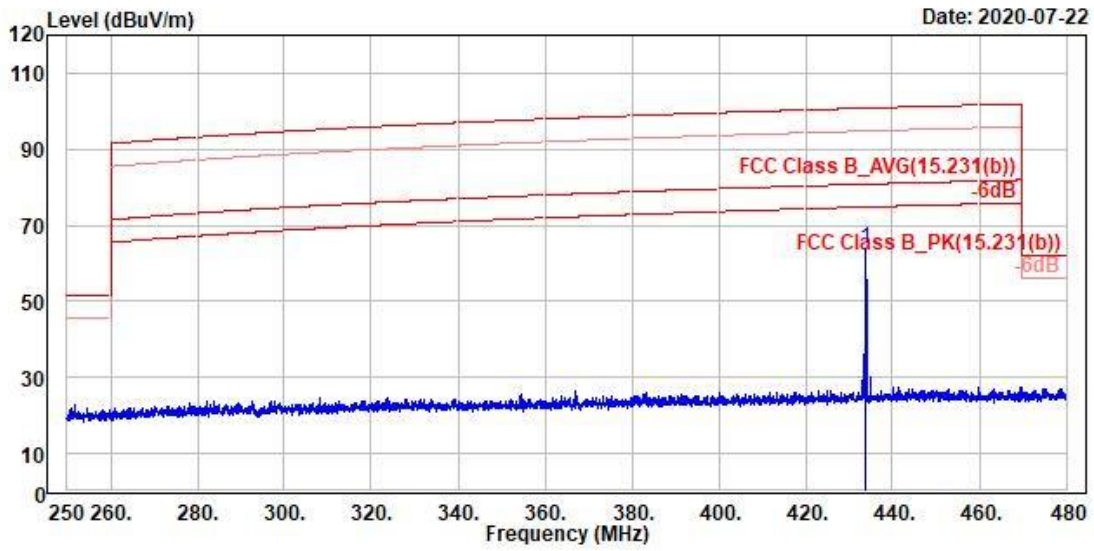
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	433.92	65.94	68.41	-2.47	80.83	-14.89	200	323	Average	Horizontal	



	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	433.92	62.35	64.82	-2.47	80.83	-18.48	100	75	Average	Vertical	



	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	433.92	67.33	69.80	-2.47	100.83	-33.50	200	323	Peak	Horizontal	



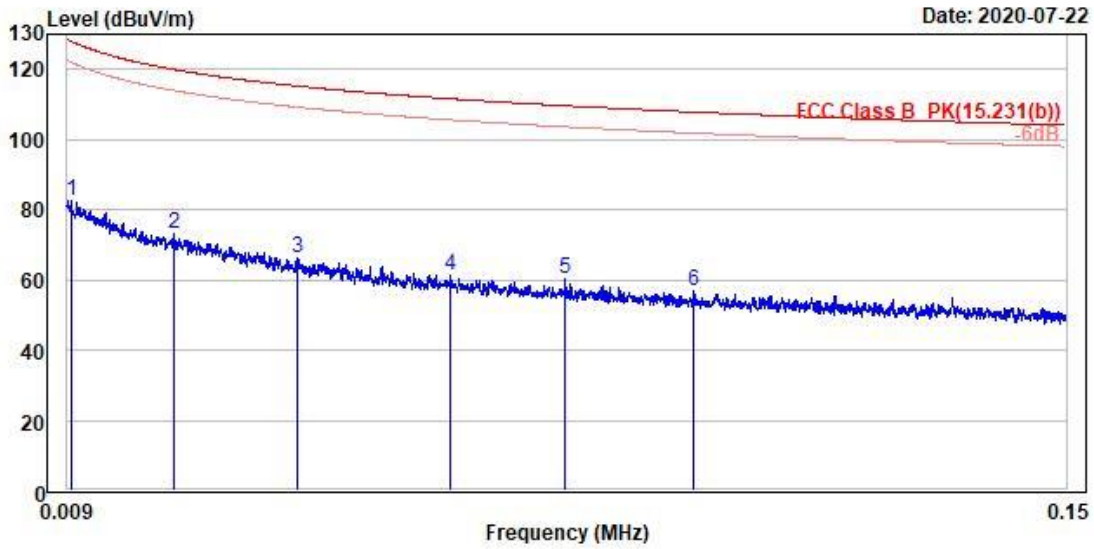
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1	433.92	64.10	66.57	-2.47	100.83	-36.73	100	75	Peak	Vertical	

Spurious Emissions, TX Mode, 9kHz-30MHz

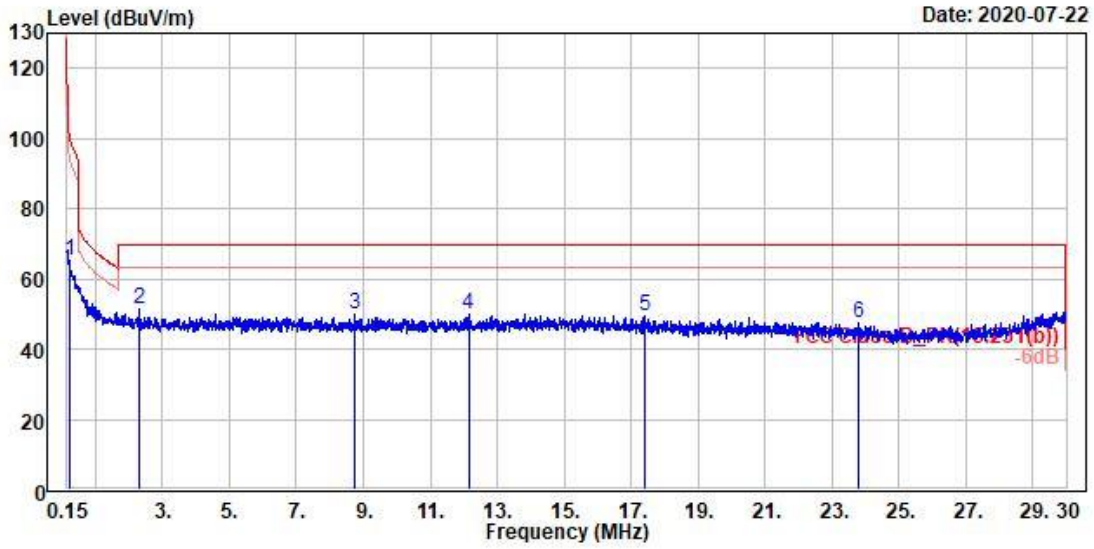
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	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	82.41	3.18	79.23	127.90	-45.49	100	191	QP	vertical	
2	0.02	73.20	1.40	71.80	119.94	-46.74	100	309	QP	vertical	
3	0.04	66.08	-1.12	67.20	115.25	-49.17	100	344	QP	vertical	
4	0.06	61.23	-2.01	63.24	111.59	-50.36	100	17	QP	vertical	
5	0.08	60.07	-1.26	61.33	109.61	-49.54	100	216	QP	vertical	
6	0.10	56.89	-2.66	59.55	107.82	-50.93	100	329	QP	vertical	



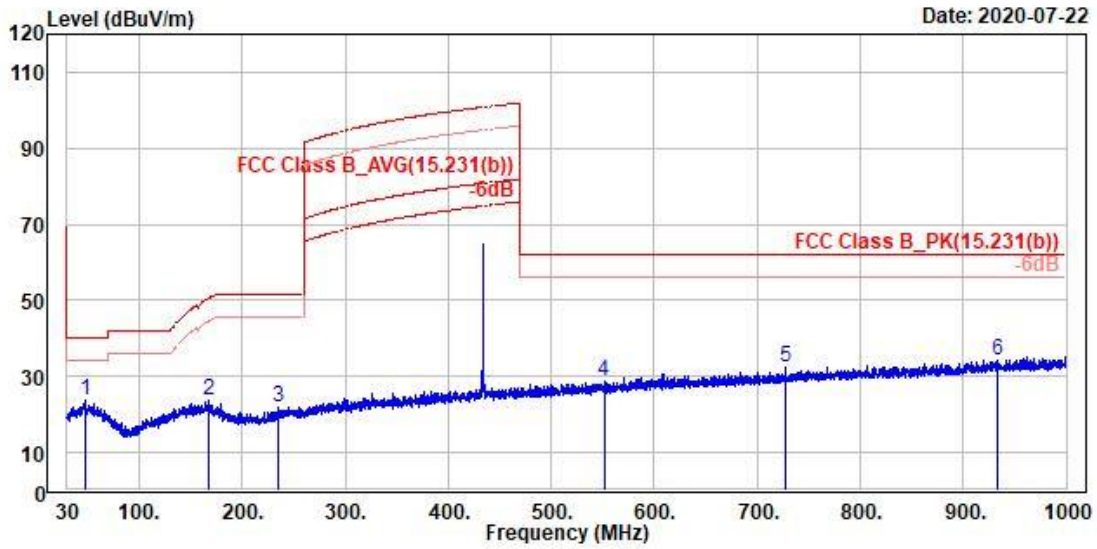
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.22	65.21	12.23	52.98	100.92	-35.71	100	80 QP		vertical	
2	2.30	51.48	12.93	38.55	69.50	-18.02	100	17 QP		vertical	
3	8.73	49.89	12.03	37.86	69.50	-19.61	100	124 QP		vertical	
4	12.14	50.04	12.73	37.31	69.50	-19.46	100	115 QP		vertical	
5	17.42	49.66	12.65	37.01	69.50	-19.84	100	254 QP		vertical	
6	23.77	47.67	12.63	35.04	69.50	-21.83	100	327 QP		vertical	

Spurious Emissions, TX Mode, 30MHz-1GHz

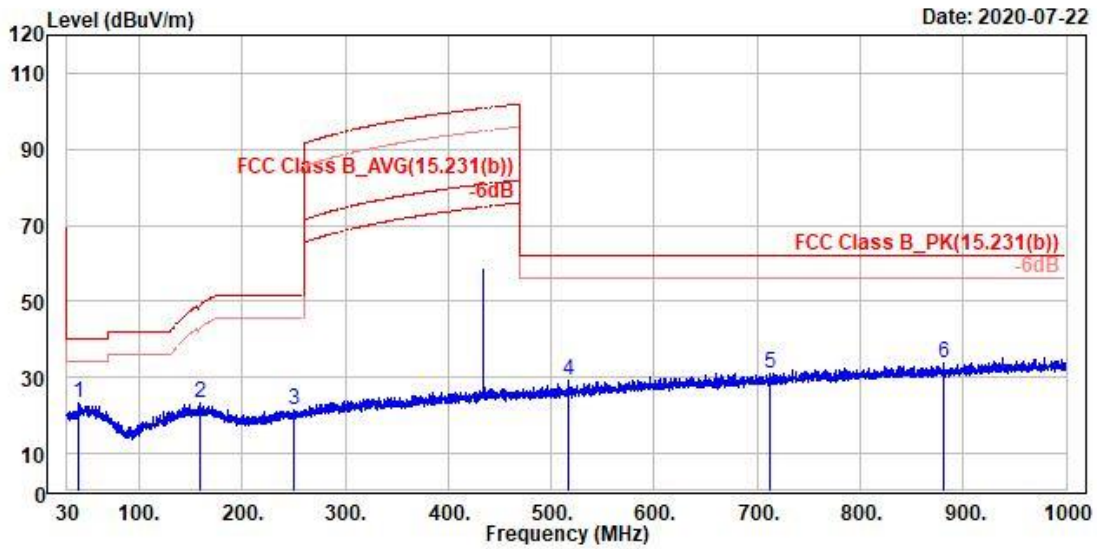
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	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	48.24	23.57	29.60	-6.03	40.00	-16.43	286	0	QP	horizontal	
2	167.35	23.75	29.69	-5.94	50.56	-26.81	200	79	QP	horizontal	
3	235.45	22.01	29.09	-7.08	51.48	-29.47	100	18	QP	horizontal	
4	551.28	28.63	29.54	-0.91	61.94	-33.31	100	346	QP	horizontal	
5	728.01	32.26	30.45	1.81	61.94	-29.68	300	359	QP	horizontal	
6	933.85	34.27	29.50	4.77	61.94	-27.67	300	348	QP	horizontal	



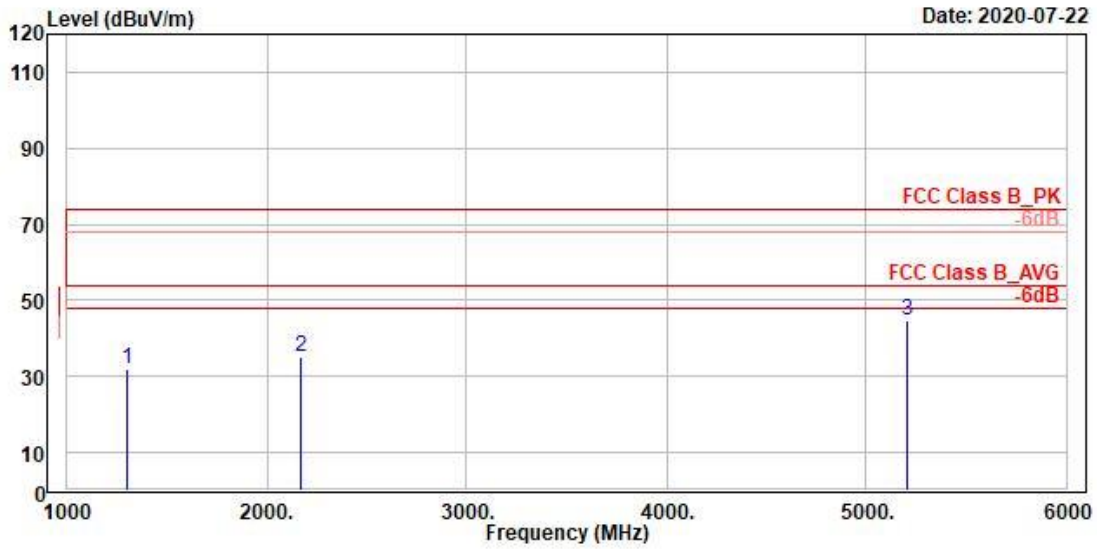
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	41.06	23.42	30.01	-6.59	40.00	-16.58	200	125	QP	vertical	
2	159.79	23.11	29.11	-6.00	49.27	-26.16	100	99	QP	vertical	
3	249.61	21.53	28.18	-6.65	51.48	-29.95	200	211	QP	vertical	
4	516.55	28.98	30.55	-1.57	61.94	-32.96	284	0	QP	vertical	
5	713.07	31.06	29.58	1.48	61.94	-30.88	100	259	QP	vertical	
6	880.50	33.82	30.07	3.75	61.94	-28.12	300	36	QP	vertical	

Spurious Emissions, TX Mode, 1GHz-6GHz

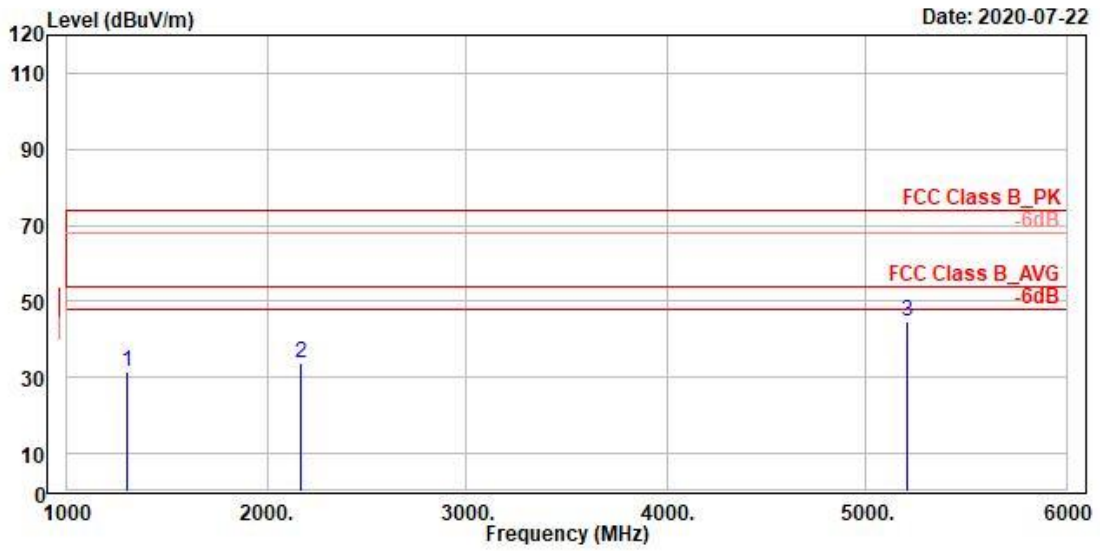
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	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1301.76	31.79	51.02	-19.23	74.00	-42.21	100	298	Peak	horizontal	
2	2169.60	35.18	49.94	-14.76	74.00	-38.82	200	172	Peak	horizontal	
3	5207.04	44.65	53.38	-8.73	74.00	-29.35	155	0	Peak	horizontal	



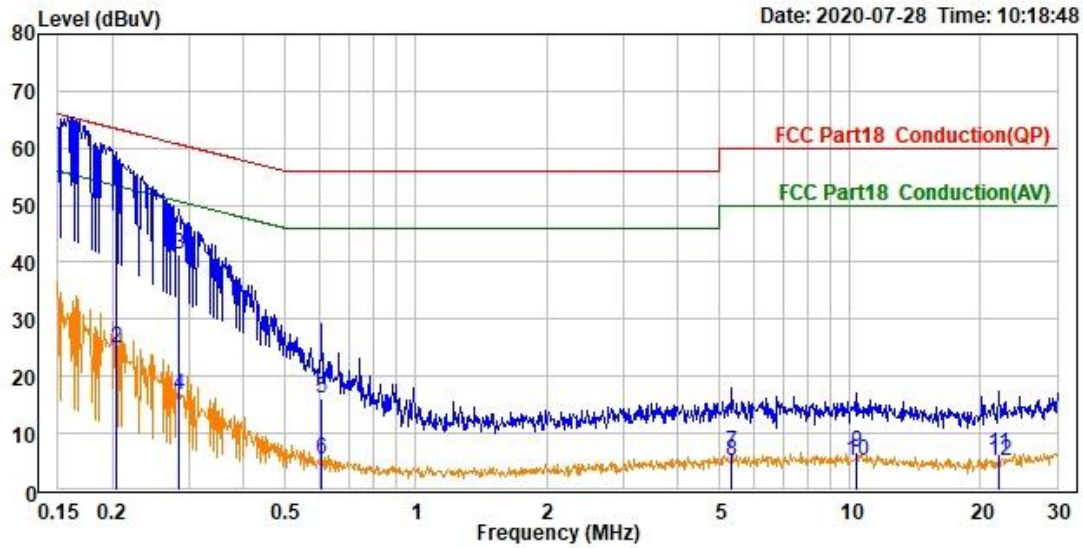
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1301.76	31.50	50.73	-19.23	74.00	-42.50	268	360	Peak	vertical	
2	2169.60	33.98	48.74	-14.76	74.00	-40.02	200	132	Peak	vertical	
3	5207.04	44.90	53.63	-8.73	74.00	-29.10	400	201	Peak	vertical	

Spurious Emissions, AC Mains

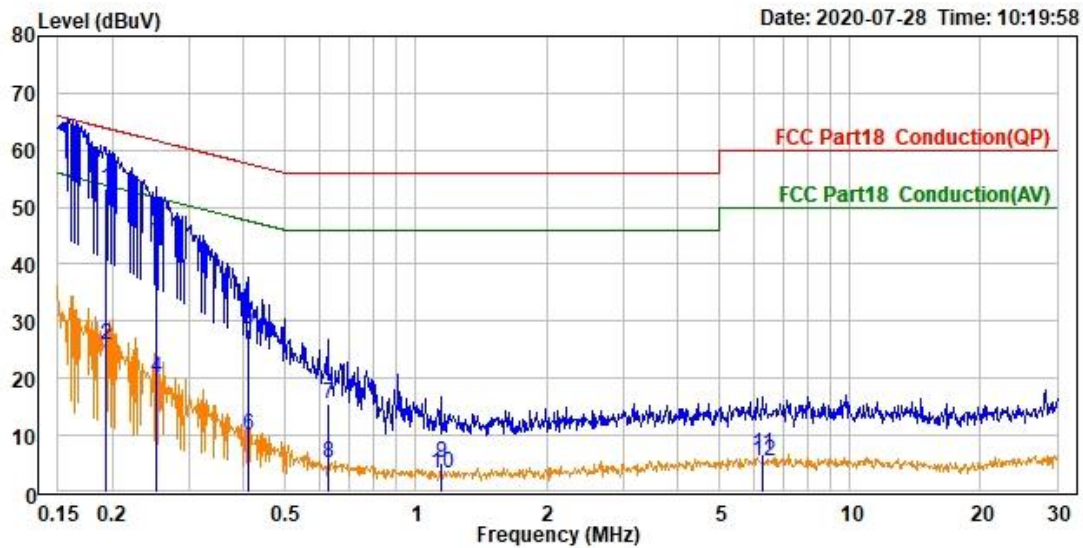
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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark	Note
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.204	42.18	10.11	52.29	63.43	-11.14	line1	QP	
2	0.204	14.81	10.11	24.92	53.43	-28.51	line1	Average	
3	0.284	31.38	10.11	41.49	60.70	-19.21	line1	QP	
4	0.284	6.76	10.11	16.87	50.70	-33.83	line1	Average	
5	0.609	5.92	10.12	16.04	56.00	-39.96	line1	QP	
6	0.609	-4.63	10.12	5.49	46.00	-40.51	line1	Average	
7	5.347	-3.68	10.25	6.57	60.00	-53.43	line1	QP	
8	5.347	-5.02	10.25	5.23	50.00	-44.77	line1	Average	
9	10.325	-3.81	10.37	6.56	60.00	-53.44	line1	QP	
10	10.325	-5.14	10.37	5.23	50.00	-44.77	line1	Average	
11	22.025	-4.32	10.57	6.25	60.00	-53.75	line1	QP	
12	22.025	-5.45	10.57	5.12	50.00	-44.88	line1	Average	



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark	Note
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.192	43.12	10.11	53.23	63.93	-10.70	neutral	QP	
2	0.192	15.74	10.11	25.85	53.93	-28.08	neutral	Average	
3	0.252	35.47	10.11	45.58	61.69	-16.11	neutral	QP	
4	0.252	9.90	10.11	20.01	51.69	-31.68	neutral	Average	
5	0.411	18.48	10.11	28.59	57.64	-29.05	neutral	QP	
6	0.411	-0.08	10.11	10.03	47.64	-37.61	neutral	Average	
7	0.627	5.46	10.12	15.58	56.00	-40.42	neutral	QP	
8	0.627	-4.88	10.12	5.24	46.00	-40.76	neutral	Average	
9	1.141	-4.92	10.14	5.22	56.00	-50.78	neutral	QP	
10	1.141	-6.90	10.14	3.24	46.00	-42.76	neutral	Average	
11	6.272	-3.66	10.28	6.62	60.00	-53.38	neutral	QP	
12	6.272	-4.88	10.28	5.40	50.00	-44.60	neutral	Average	