

Test Report No.60360049 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 60360049 001 Appendix D)

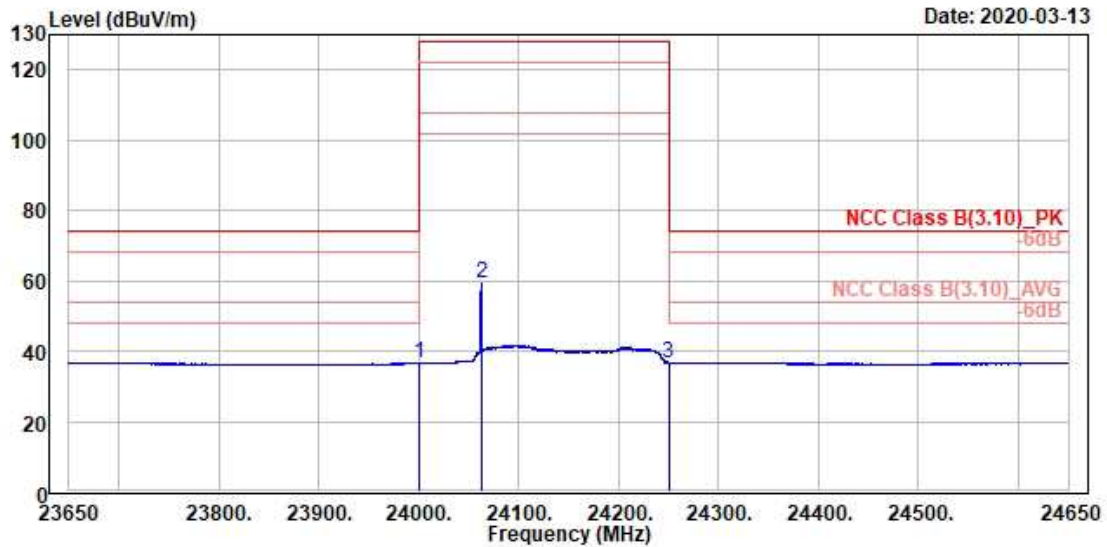
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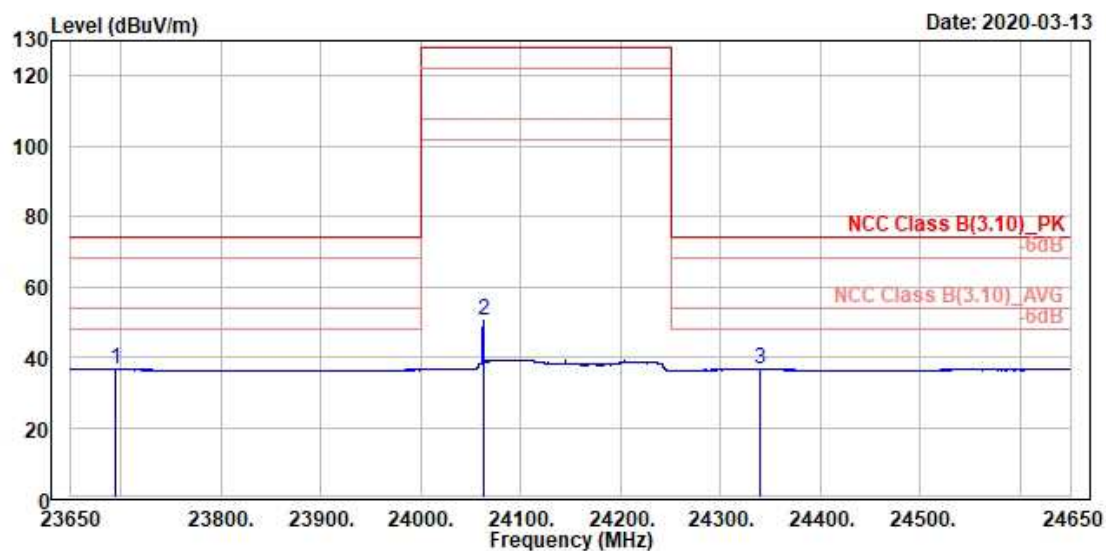
Radiated Emissions, Fundamental Field Strength & Bandedge



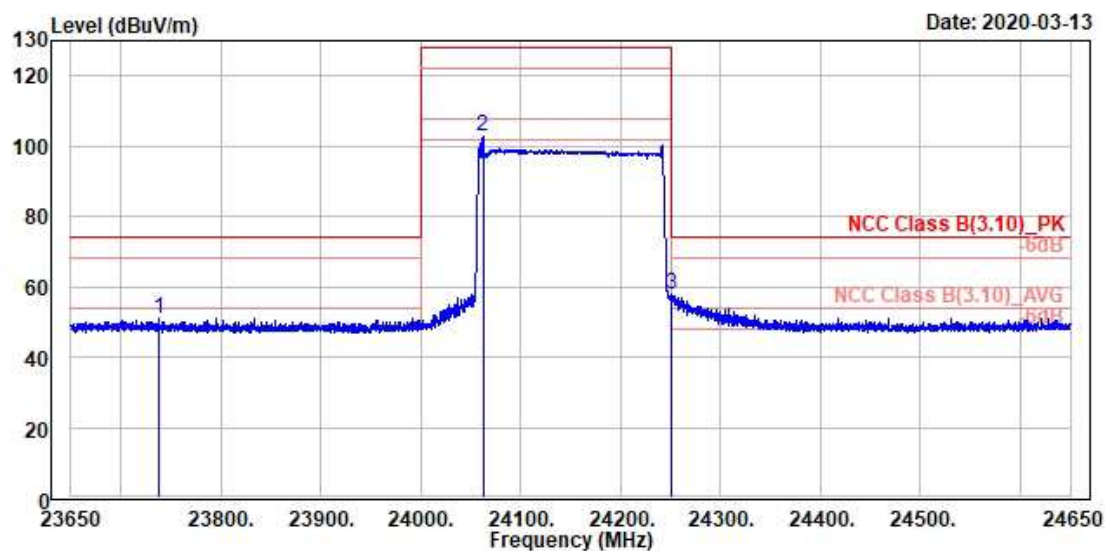
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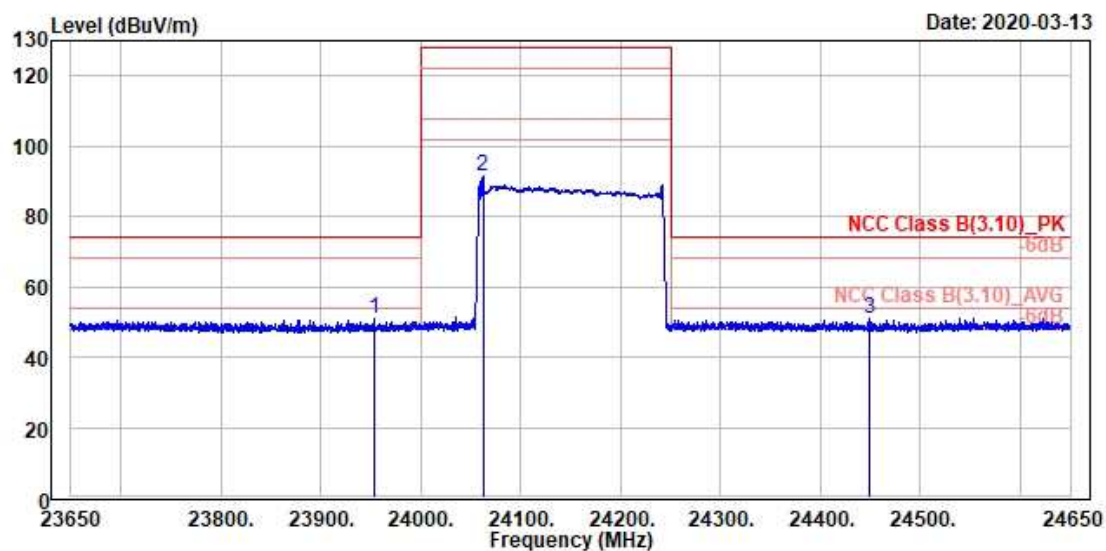
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	24000.000	36.54	32.55	3.99	54.00	-17.46	218	78	Average	HORIZONTAL
2	24062.400	59.52	55.55	3.97	107.96	-48.44	218	78	Average	HORIZONTAL
3	24250.000	36.77	32.87	3.90	54.00	-17.23	218	78	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	23695.200	36.49	32.66	3.83	54.00	-17.51	121	33	Average	Vertical
2	24062.400	50.45	46.48	3.97	107.96	-57.51	121	33	Average	Vertical
3	24340.200	36.54	32.60	3.94	54.00	-17.46	121	33	Average	Vertical



	Freq	Level	Read Level	Factor	Limit	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	23737.800	50.90	47.06	3.84	74.00	-23.10	218	78	Peak	HORIZONTAL
2	24062.200	102.62	98.65	3.97	127.95	-25.33	218	78	Peak	HORIZONTAL
3	24250.200	57.60	53.70	3.90	74.00	-16.40	218	78	Peak	HORIZONTAL

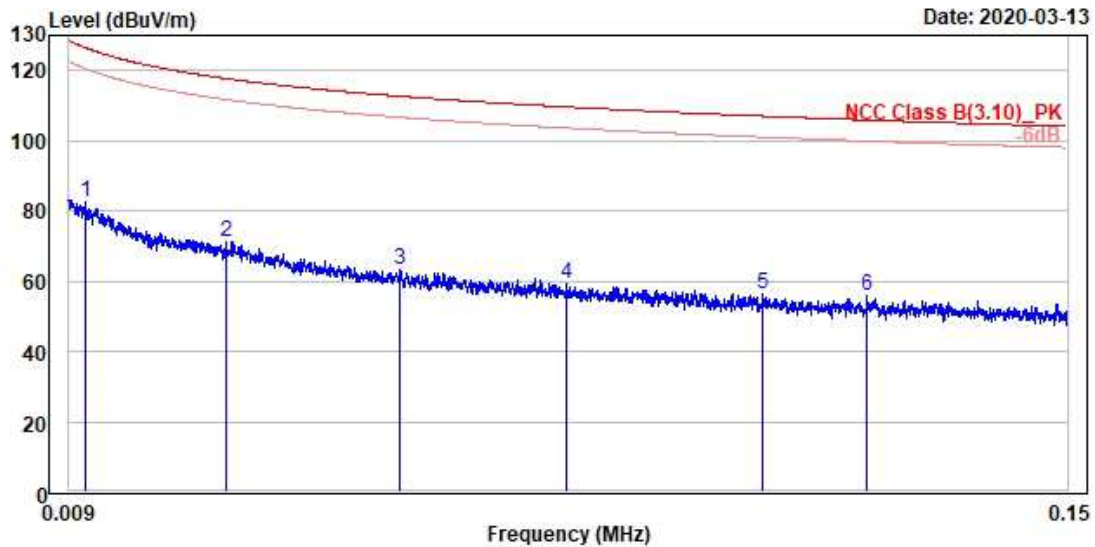


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	23953.000	50.82	46.86	3.96	74.00	-23.18	121	33	Peak	Vertical
2	24062.200	91.29	87.32	3.97	127.95	-36.66	121	33	Peak	Vertical
3	24449.000	51.01	47.02	3.99	74.00	-22.99	121	33	Peak	Vertical

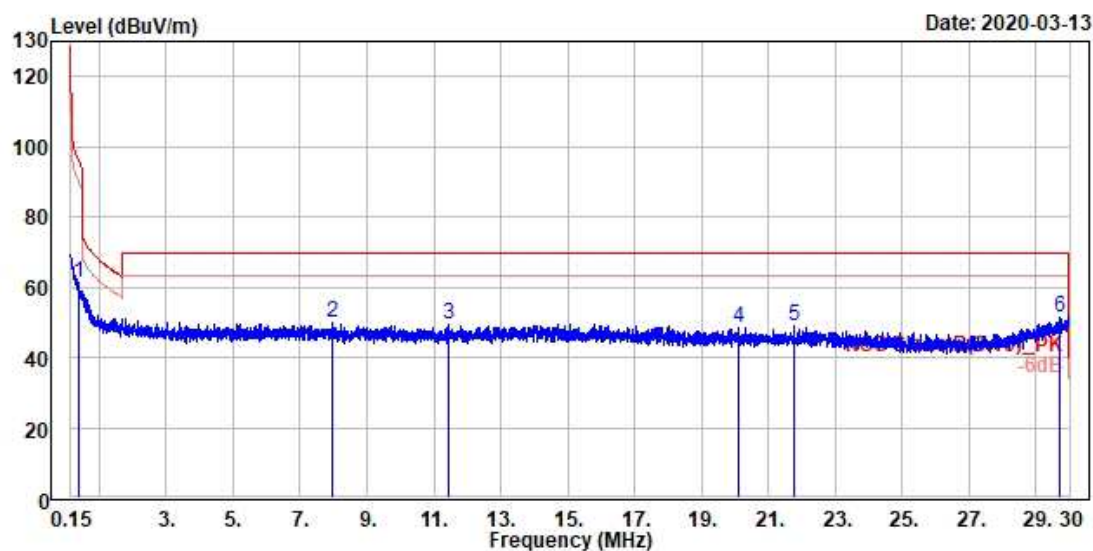
Spurious Emissions, TX Mode, 9kHz-30MHz



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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	0.011	82.43	4.42	78.01	126.51	-44.08	100	285 QP		vertical
2	0.031	71.04	0.66	70.38	117.72	-46.68	100	81 QP		vertical
3	0.056	63.39	-0.85	64.24	112.67	-49.28	100	156 QP		vertical
4	0.079	59.36	-1.97	61.33	109.62	-50.26	100	246 QP		vertical
5	0.107	56.55	-2.29	58.84	107.01	-50.46	100	57 QP		vertical
6	0.122	55.76	-2.23	57.99	105.89	-50.13	100	325 QP		vertical

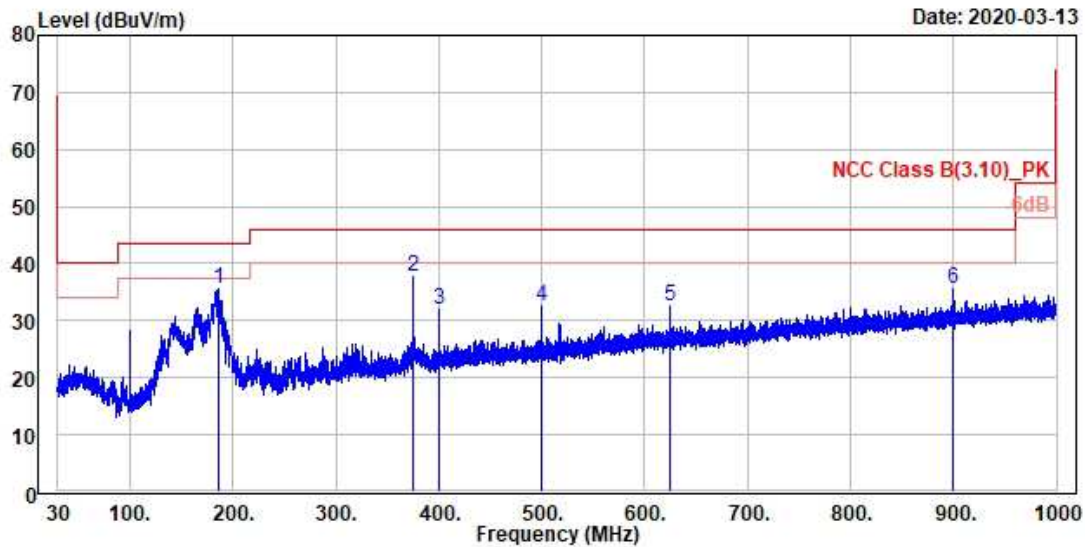


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.368	61.48	12.45	49.03	96.29	-34.81	100	306	QP	vertical
2	7.986	50.04	11.97	38.07	69.50	-19.46	100	289	QP	vertical
3	11.451	49.20	11.95	37.25	69.50	-20.30	100	289	QP	vertical
4	20.114	48.57	12.33	36.24	69.50	-20.93	100	163	QP	vertical
5	21.770	48.88	12.96	35.92	69.50	-20.62	100	126	QP	vertical
6	29.696	51.43	12.40	39.03	69.50	-18.07	100	346	QP	vertical

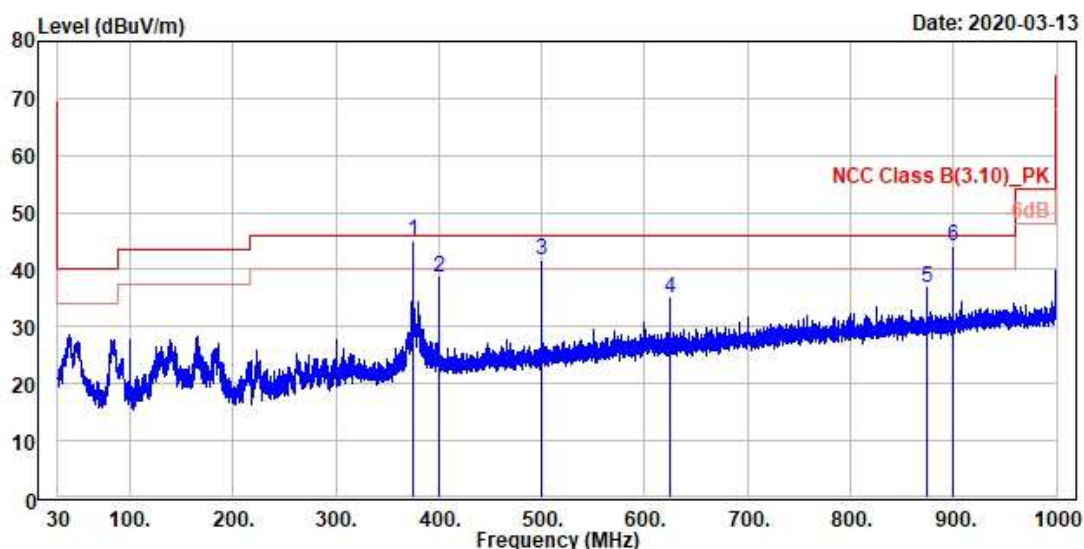
Spurious Emissions, TX Mode, 30MHz-1GHz



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	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	185.588	35.63	43.44	-7.81	43.50	-7.87	200	79 QP		horizontal
2	375.029	37.73	41.31	-3.58	46.00	-8.27	200	299 QP		horizontal
3	400.055	31.92	35.10	-3.18	46.00	-14.08	200	115 QP		horizontal
4	500.062	32.55	34.42	-1.87	46.00	-13.45	200	63 QP		horizontal
5	624.998	32.47	32.03	0.44	46.00	-13.53	100	144 QP		horizontal
6	900.090	35.56	31.50	4.06	46.00	-10.44	200	79 QP		horizontal

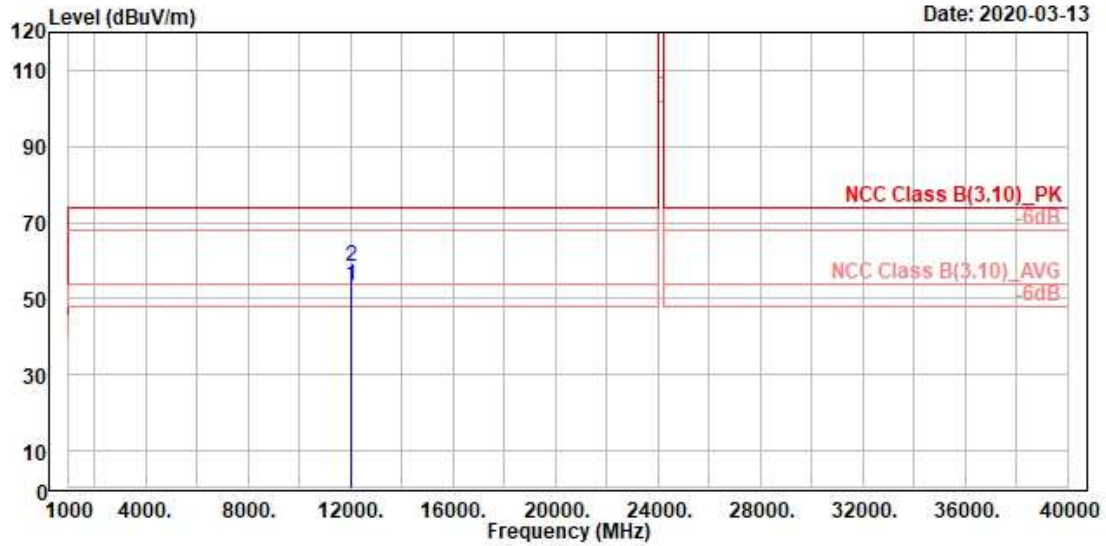


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1 !	375.029	44.92	48.50	-3.58	46.00	-1.08	160	0	QP	vertical
2	400.055	38.68	41.86	-3.18	46.00	-7.32	126	0	QP	vertical
3 !	500.062	41.53	43.40	-1.87	46.00	-4.47	126	0	QP	vertical
4	625.095	35.04	34.60	0.44	46.00	-10.96	100	63	QP	vertical
5	875.064	36.79	33.10	3.69	46.00	-9.21	138	0	QP	vertical
6 !	900.090	43.96	39.90	4.06	46.00	-2.04	152	342	QP	vertical

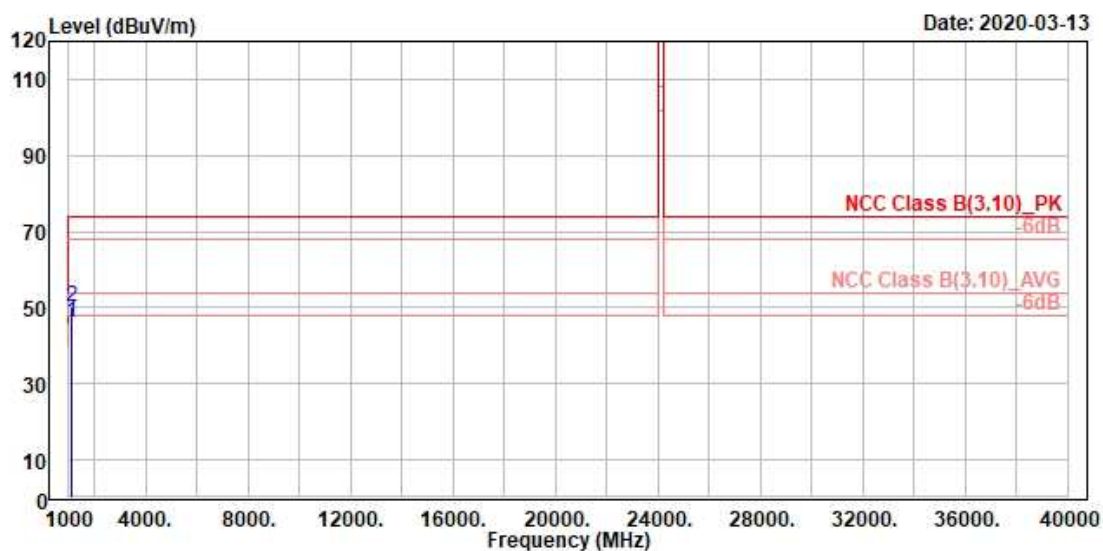
Spurious Emissions, TX Mode, 1GHz-40GHz



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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	!12031.720	53.53	53.55	-0.02	54.00	-0.47	200	340	Average	horizontal
2	12031.720	58.49	58.51	-0.02	74.00	-15.51	200	340	Peak	horizontal

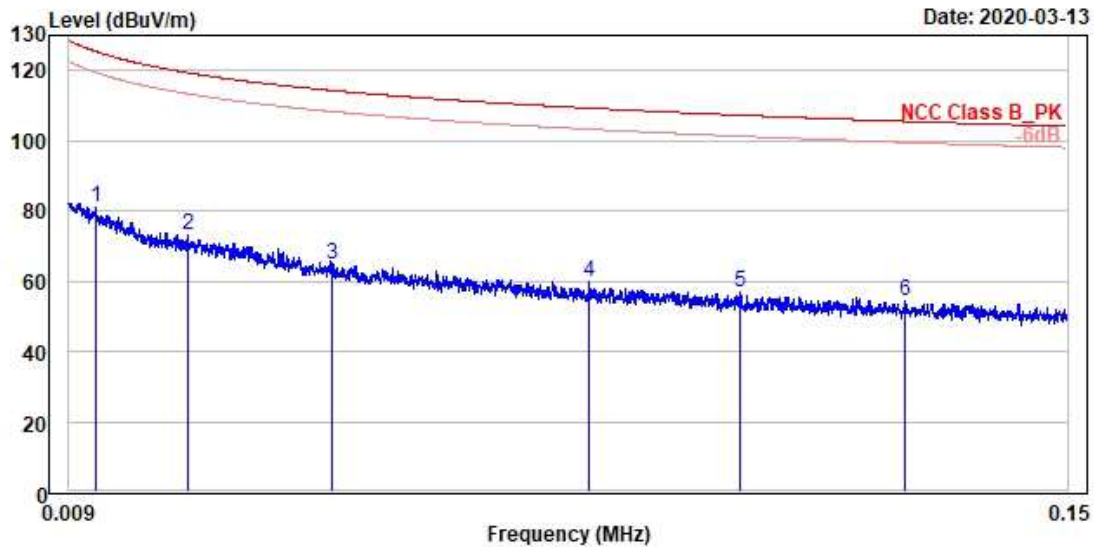


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	1124.674	46.27	66.68	-20.41	54.00	-7.73	336	360	Average	vertical
2	1124.674	50.38	70.79	-20.41	74.00	-23.62	336	360	Peak	vertical

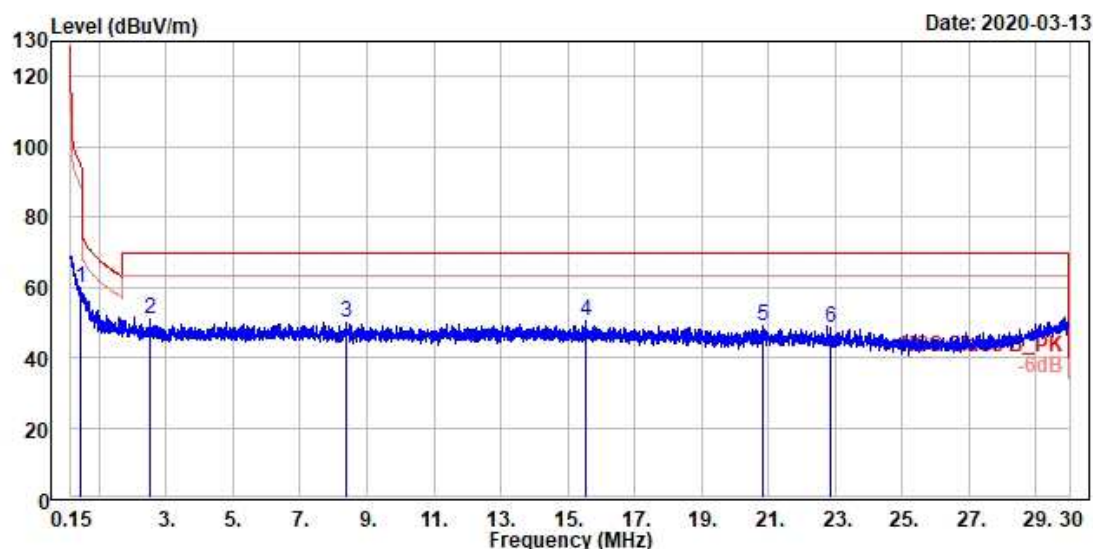
Spurious Emissions, RX Mode, 9kHz-30MHz



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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	0.013	80.83	3.74	77.09	125.46	-44.63	100	4 QP		vertical
2	0.026	73.15	1.64	71.51	119.38	-46.23	100	324 QP		vertical
3	0.046	64.93	-1.06	65.99	114.29	-49.36	100	239 QP		vertical
4	0.083	59.59	-1.46	61.05	109.26	-49.67	100	0 QP		vertical
5	0.104	56.67	-2.36	59.03	107.27	-50.60	100	34 QP		vertical
6	0.127	54.13	-3.55	57.68	105.51	-51.38	100	146 QP		vertical

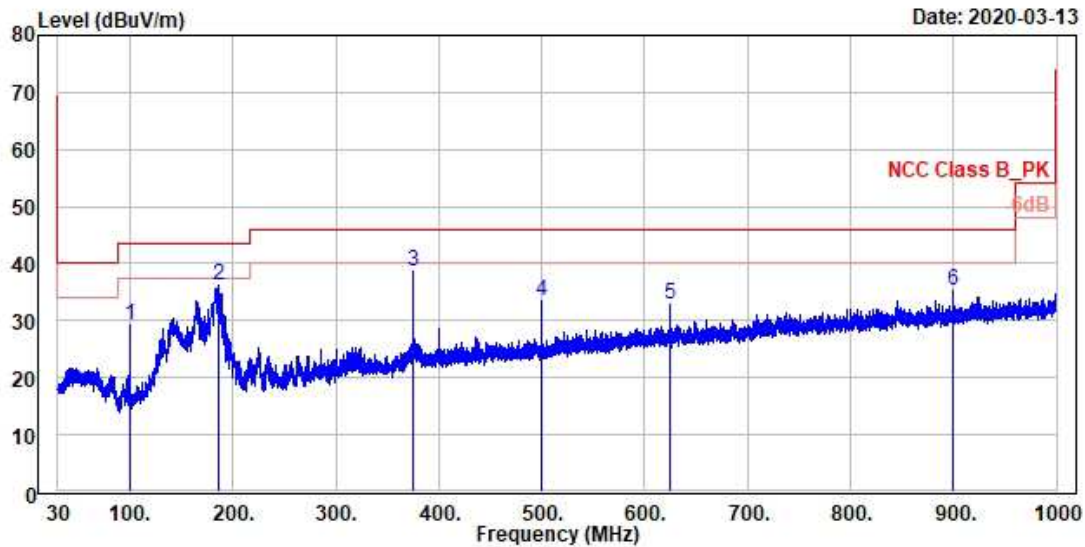


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.431	59.57	11.70	47.87	94.92	-35.35	100	152	QP	vertical
2	2.499	50.90	12.44	38.46	69.50	-18.60	100	22	QP	vertical
3	8.380	49.96	11.99	37.97	69.50	-19.54	100	346	QP	vertical
4	15.523	50.20	12.57	37.63	69.50	-19.30	100	132	QP	vertical
5	20.860	48.88	12.79	36.09	69.50	-20.62	100	336	QP	vertical
6	22.845	48.34	12.71	35.63	69.50	-21.16	100	129	QP	vertical

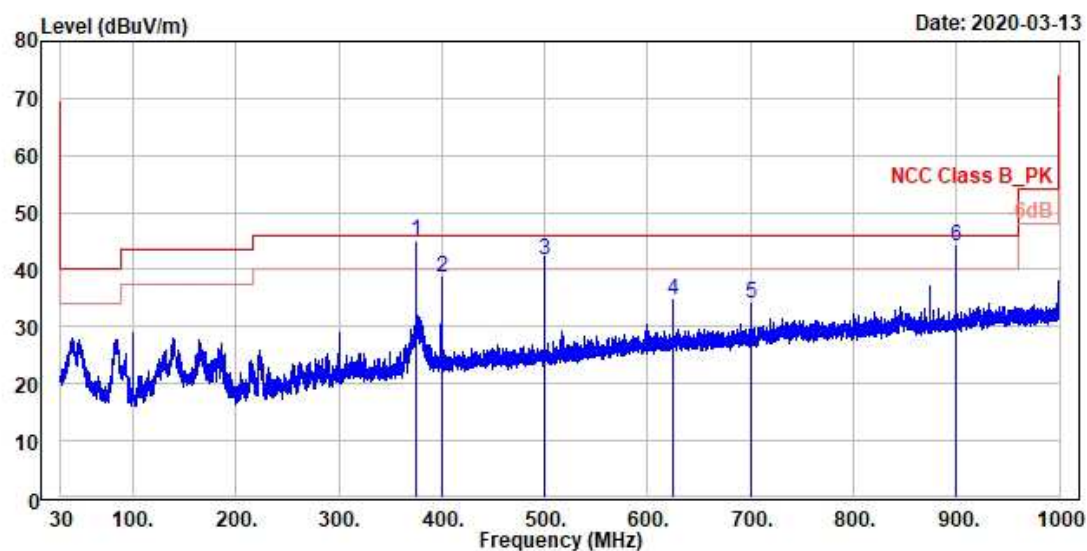
Spurious Emissions, RX Mode, 30MHz-1GHz



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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	99.937	29.18	40.25	-11.07	43.50	-14.32	200	268	QP	horizontal
2	185.879	36.28	44.12	-7.84	43.50	-7.22	200	57	QP	horizontal
3	375.029	38.71	42.29	-3.58	46.00	-7.29	200	265	QP	horizontal
4	499.965	33.54	35.41	-1.87	46.00	-12.46	200	271	QP	horizontal
5	624.998	32.85	32.41	0.44	46.00	-13.15	300	74	QP	horizontal
6	900.090	35.35	31.29	4.06	46.00	-10.65	400	47	QP	horizontal

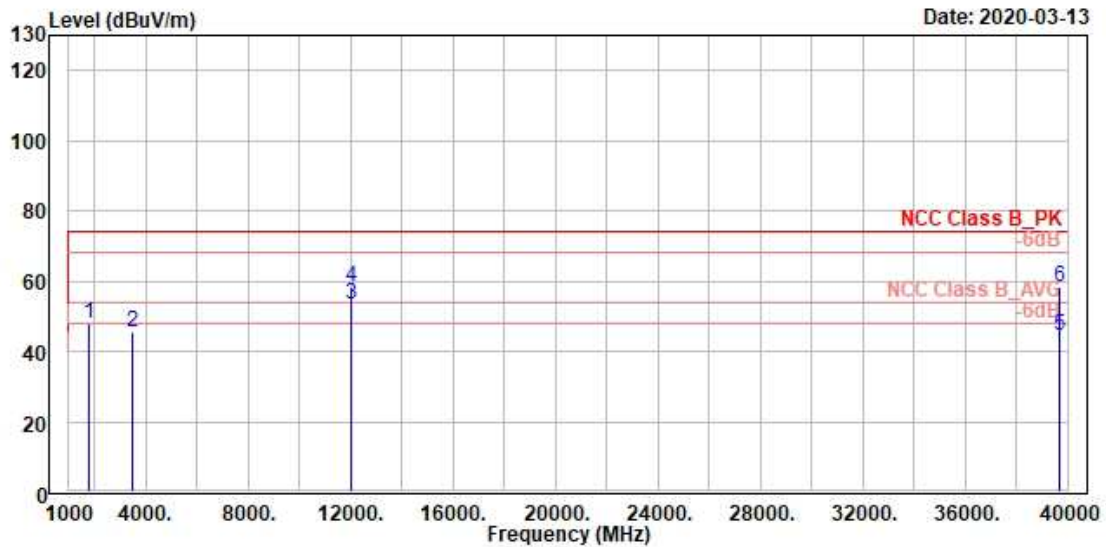


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1 !	375.029	44.92	48.50	-3.58	46.00	-1.08	160	360	QP	vertical
2	400.055	38.49	41.67	-3.18	46.00	-7.51	126	360	QP	vertical
3 !	499.965	41.53	43.40	-1.87	46.00	-4.47	126	360	QP	vertical
4	624.998	34.61	34.17	0.44	46.00	-11.39	100	55	QP	vertical
5	699.979	34.20	32.86	1.34	46.00	-11.80	130	360	QP	vertical
6 !	900.090	43.96	39.90	4.06	46.00	-2.04	152	360	QP	vertical

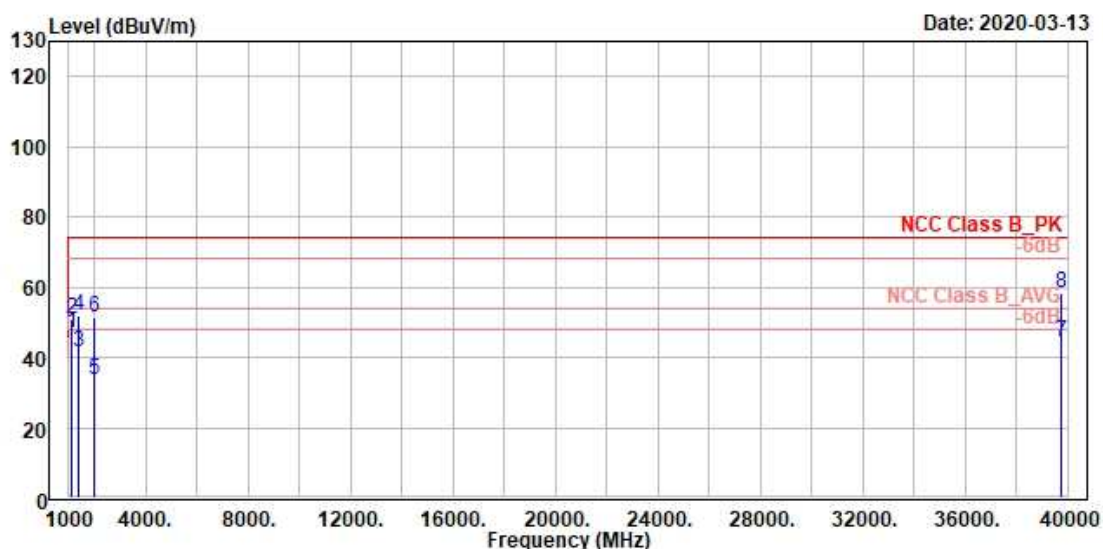
Spurious Emissions, RX Mode, 1GHz-40GHz



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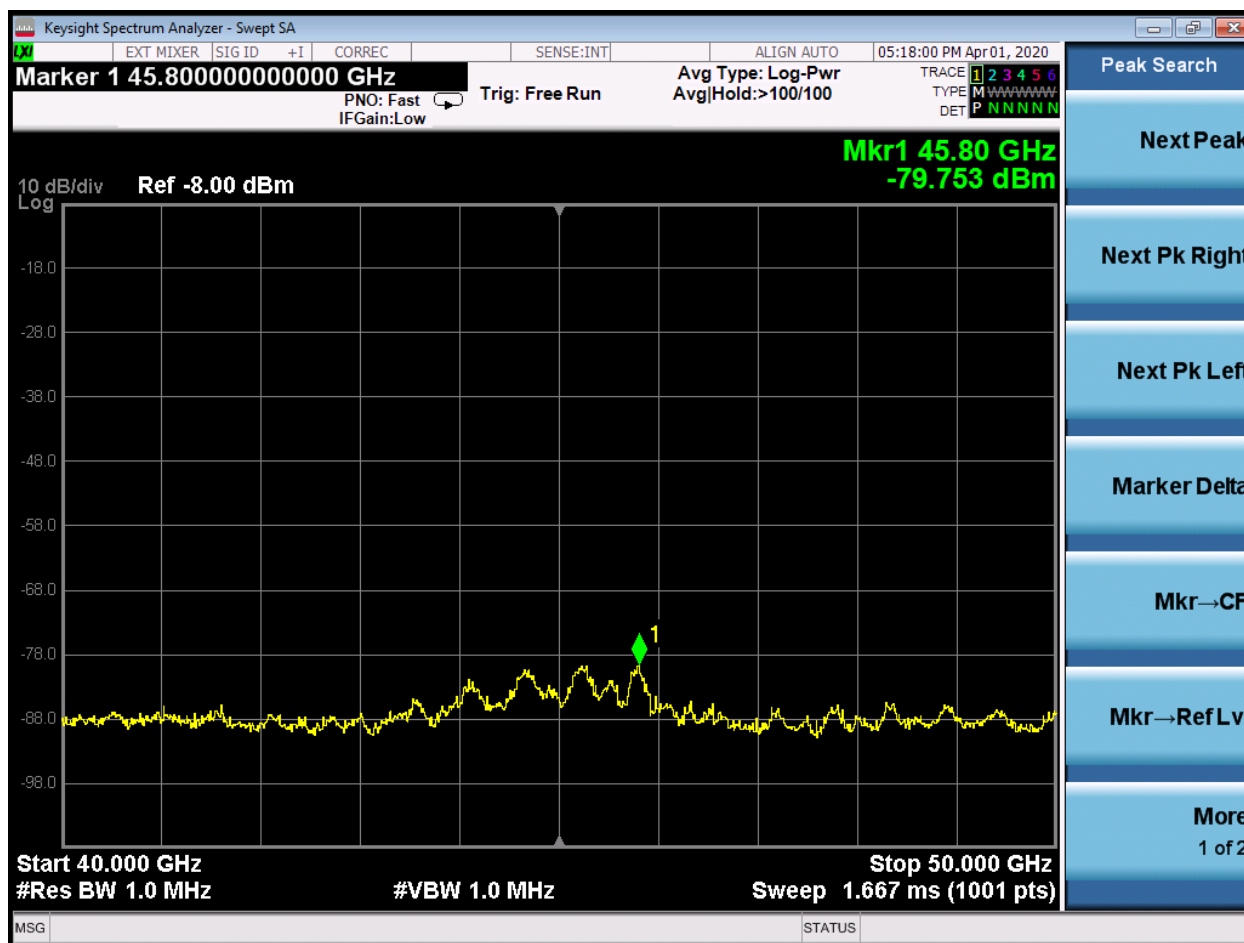
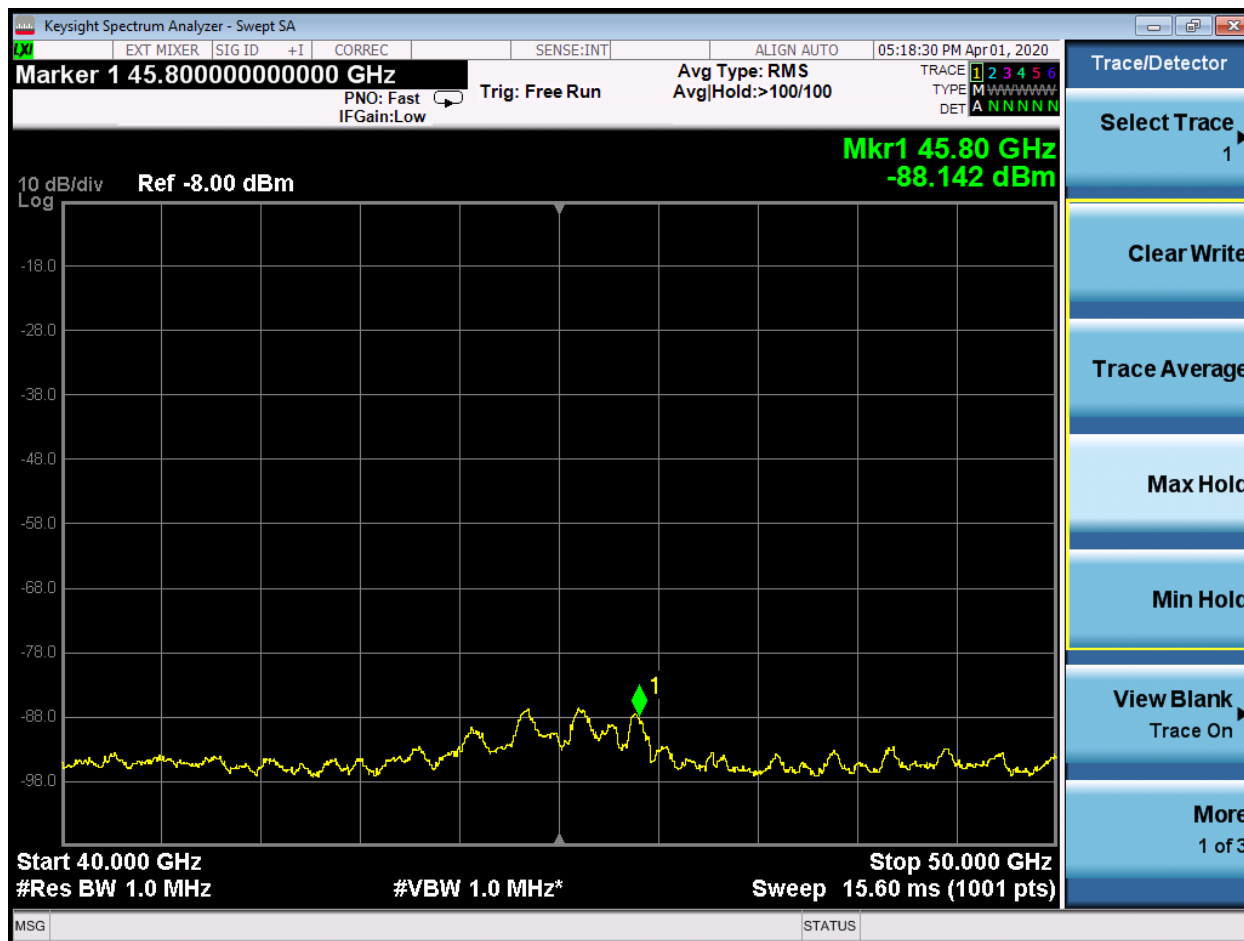


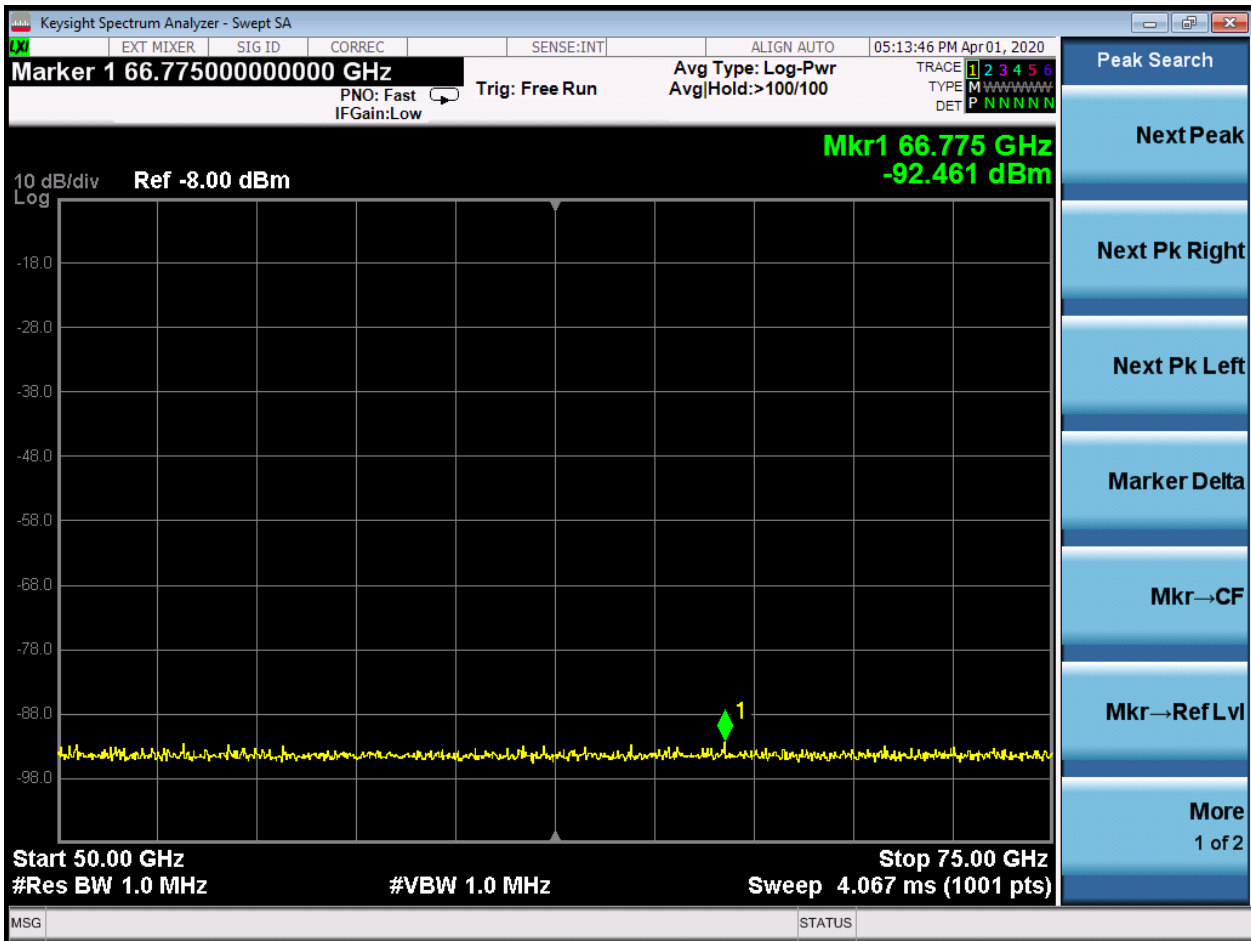
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	1770.709	47.83	64.62	-16.79	74.00	-26.17	300	110	Peak	horizontal
2	3500.083	45.64	57.48	-11.84	74.00	-28.36	200	0	Peak	horizontal
3	12031.720	53.53	53.55	-0.02	54.00	-0.47	200	340	Average	horizontal
4	12031.720	58.49	58.51	-0.02	74.00	-15.51	200	340	Peak	horizontal
5	39718.290	44.32	28.68	15.64	54.00	-9.68	100	0	Average	horizontal
6	39718.290	58.21	42.57	15.64	74.00	-15.79	100	0	Peak	horizontal

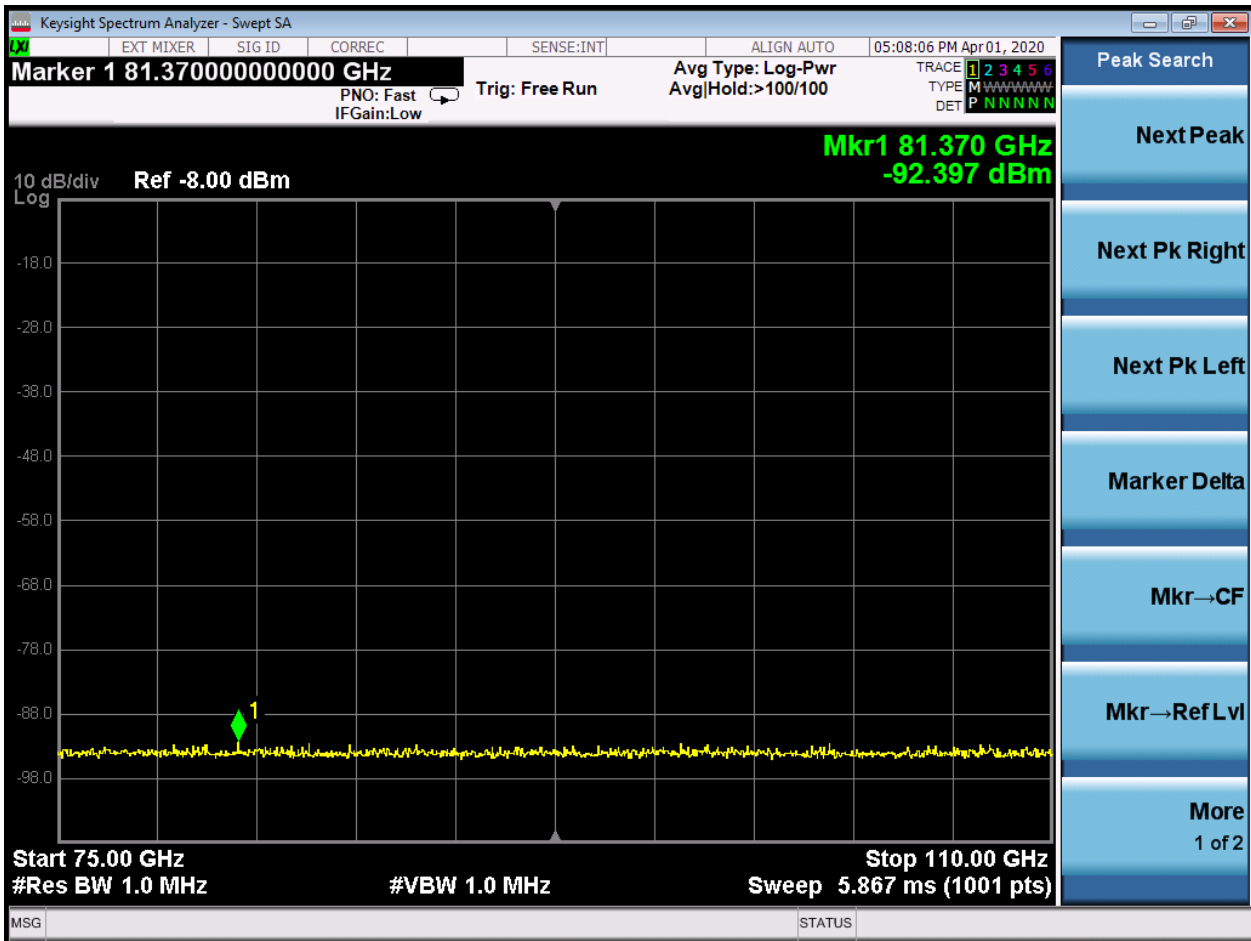


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	1124.674	46.85	66.68	-19.83	54.00	-7.15	336	360	Average	vertical
2	1124.674	50.96	70.79	-19.83	74.00	-23.04	336	360	Peak	vertical
3	1399.522	41.28	60.18	-18.90	54.00	-12.72	383	360	Average	vertical
4	1399.522	51.67	70.57	-18.90	74.00	-22.33	383	360	Peak	vertical
5	2000.222	33.38	48.51	-15.13	54.00	-20.62	103	360	Average	vertical
6	2000.222	51.52	66.65	-15.13	74.00	-22.48	103	360	Peak	vertical
7	39779.910	44.68	28.96	15.72	54.00	-9.32	200	135	Average	vertical
8	39779.910	58.50	42.78	15.72	74.00	-15.50	200	135	Peak	vertical

Spurious Emissions, TX/RX Mode, 40GHz-110GHz



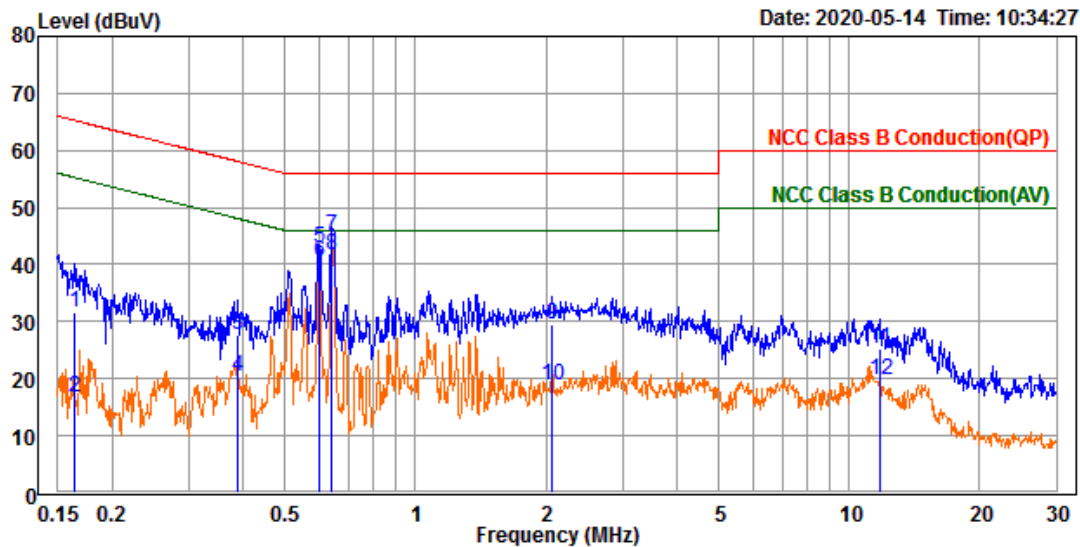




AC mains conduction

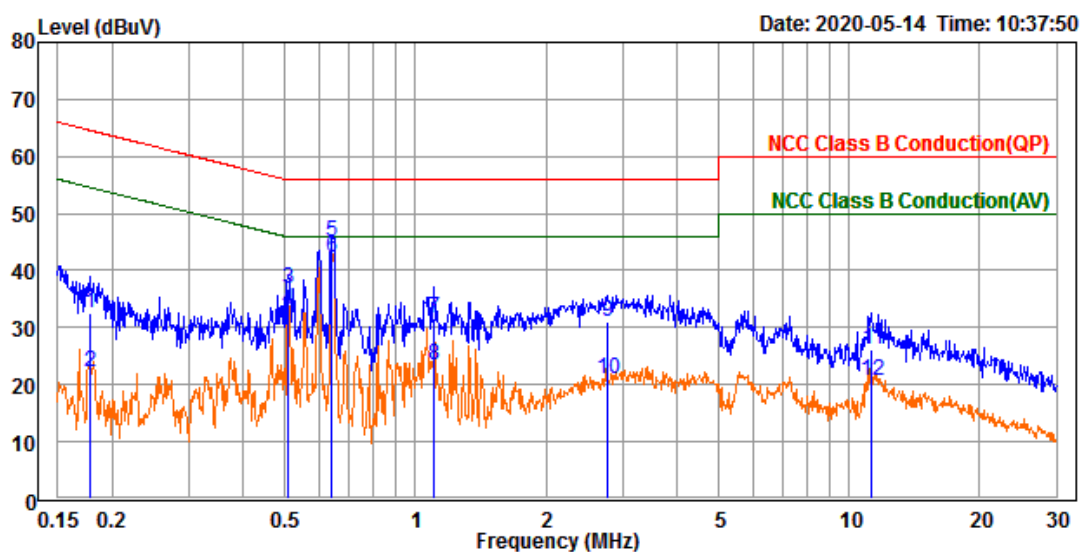


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Trace: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Note
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.163	22.00	9.61	31.61	65.30	-33.69	QP	
2	0.163	7.12	9.61	16.73	55.30	-38.57	Average	
3	0.391	18.19	9.62	27.81	58.05	-30.24	QP	
4	0.391	10.85	9.62	20.47	48.05	-27.58	Average	
5	0.600	33.15	9.62	42.77	56.00	-13.23	QP	
6	0.600	30.83	9.62	40.45	46.00	-5.55	Average	
7	0.643	35.44	9.62	45.06	56.00	-10.94	QP	
8	0.643	31.96	9.62	41.58	46.00	-4.42	Average	
9	2.064	19.78	9.64	29.42	56.00	-26.58	QP	
10	2.064	9.23	9.64	18.87	46.00	-27.13	Average	
11	11.753	15.45	9.75	25.20	60.00	-34.80	QP	
12	11.753	9.89	9.75	19.64	50.00	-30.36	Average	



Trace: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Note
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.178	23.08	9.62	32.70	64.59	-31.89	QP	
2	0.178	12.61	9.62	22.23	54.59	-32.36	Average	
3	0.509	27.17	9.63	36.80	56.00	-19.20	QP	
4	0.509	23.57	9.63	33.20	46.00	-12.80	Average	
5	0.643	35.50	9.63	45.13	56.00	-10.87	QP	
6	0.643	32.80	9.63	42.43	46.00	-3.57	Average	
7	1.101	22.01	9.63	31.64	56.00	-24.36	QP	
8	1.101	13.78	9.63	23.41	46.00	-22.59	Average	
9	2.770	21.42	9.66	31.08	56.00	-24.92	QP	
10	2.770	11.32	9.66	20.98	46.00	-25.02	Average	
11	11.294	16.41	9.75	26.16	60.00	-33.84	QP	
12	11.294	10.79	9.75	20.54	50.00	-29.46	Average	