

Test Report No.60359814 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 60359814 001Appendix D)

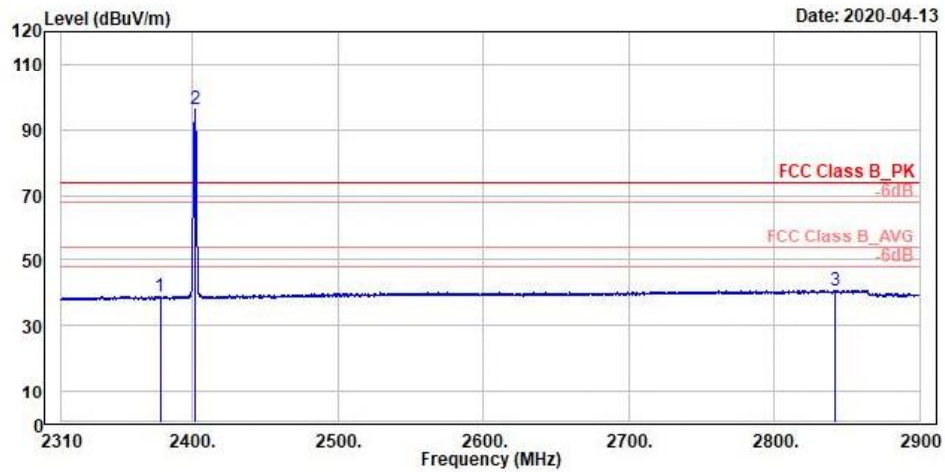
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Spurious Emissions, Band Edges for Bluetooth Low Energy 1Mbps

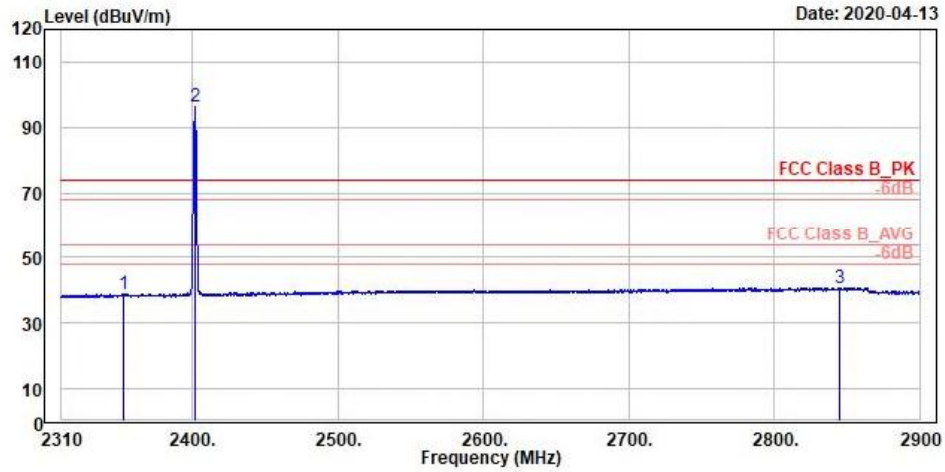


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Date: 2020-04-13

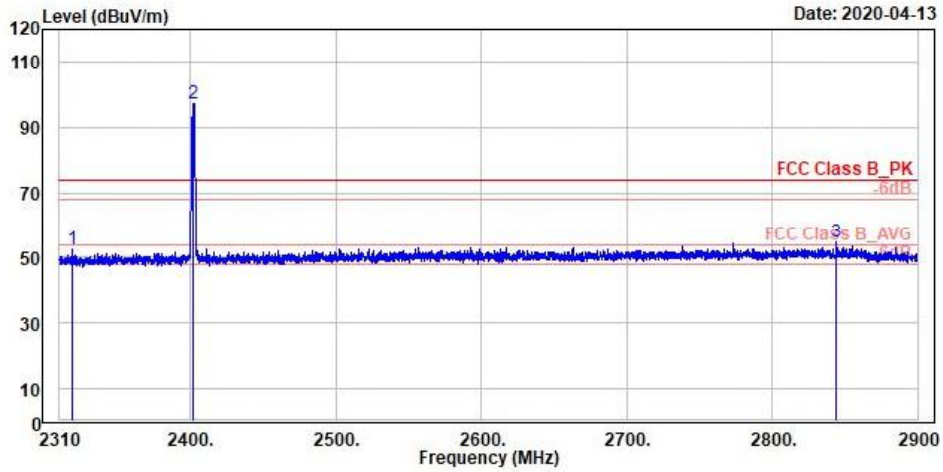
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1	2377.732	39.01	1.86	37.15	54.00	-14.99	100	184	Average	Horizontal
2 *	2402.000	96.17	59.02	37.15	54.00	42.17	100	184	Average	Horizontal
3	2842.416	40.64	2.54	38.10	54.00	-13.36	100	184	Average	Horizontal



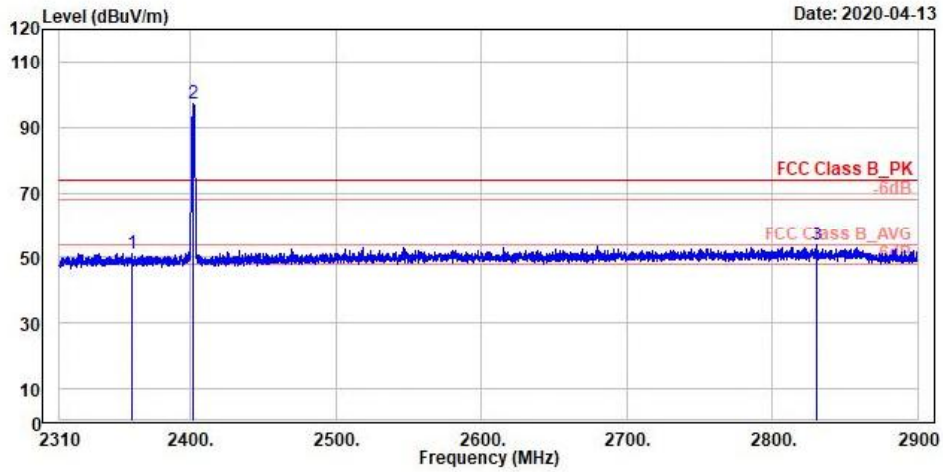
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1	2352.244	38.81	1.63	37.18	54.00	-15.19	258	167	Average	Vertical
2 *	2402.000	96.05	58.90	37.15	54.00	42.05	258	167	Average	Vertical
3	2845.248	40.82	2.73	38.09	54.00	-13.18	258	167	Average	Vertical



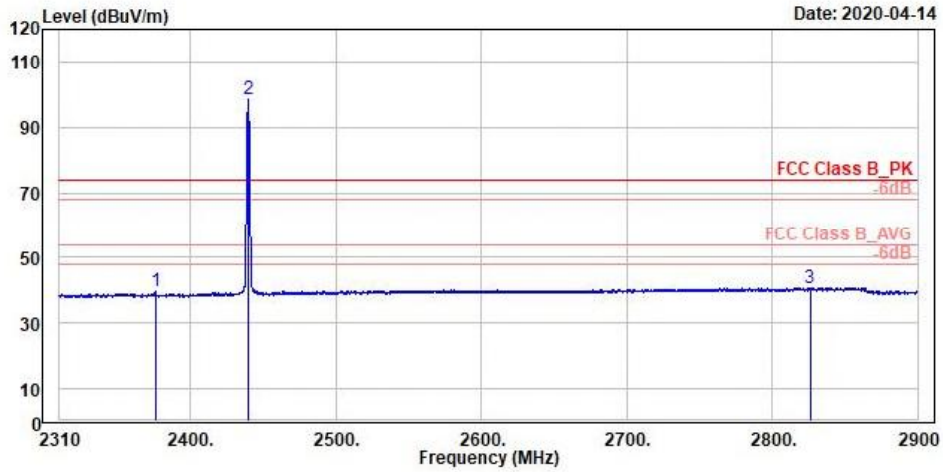
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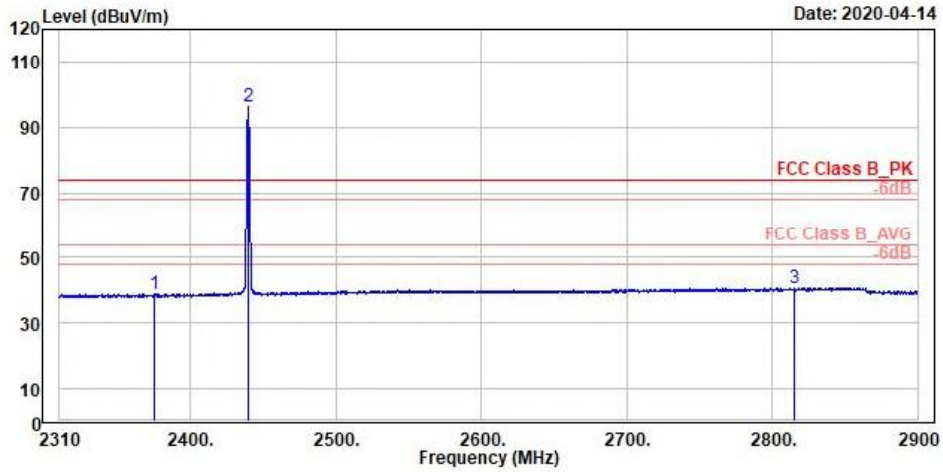
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1	2318.378	52.33	15.20	37.13	74.00	-21.67	100	184	Peak	Horizontal
2 *	2402.000	97.11	59.96	37.15	74.00	23.11	100	184	Peak	Horizontal
3	2844.304	54.79	16.70	38.09	74.00	-19.21	100	184	Peak	Horizontal



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
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1	2359.560	51.24	14.07	37.17	74.00	-22.76	258	167	Peak	Vertical
2 *	2402.000	97.00	59.85	37.15	74.00	23.00	258	167	Peak	Vertical
3	2830.498	54.04	15.94	38.10	74.00	-19.96	258	167	Peak	Vertical



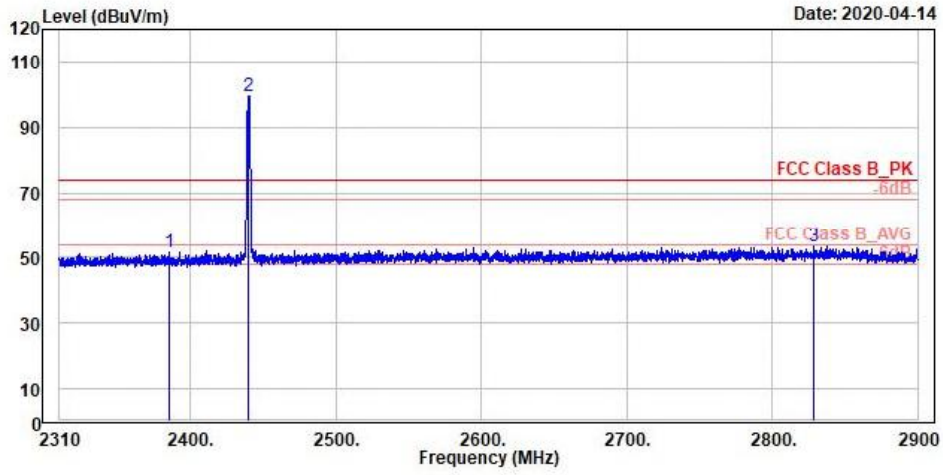
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1	2375.844	39.54	2.38	37.16	54.00	-14.46	100	231	Average	Horizontal
2 *	2440.000	98.51	61.16	37.35	54.00	44.51	100	231	Average	Horizontal
3	2826.132	40.71	2.60	38.11	54.00	-13.29	100	231	Average	Horizontal



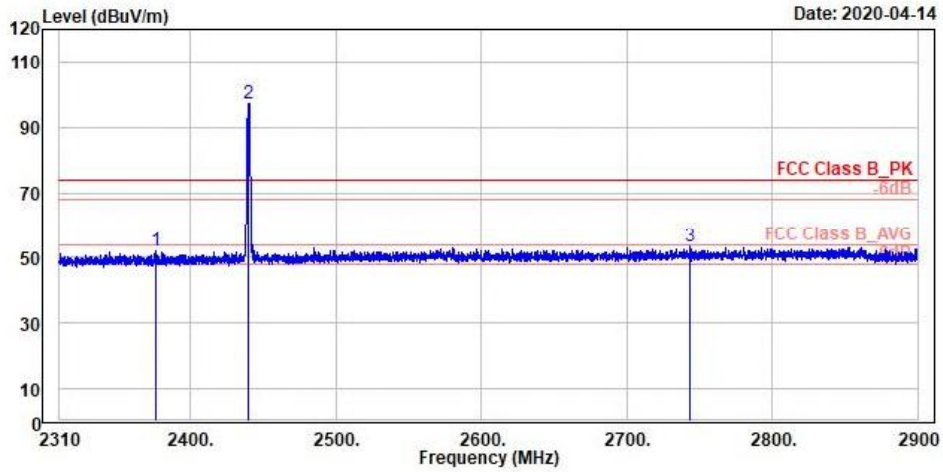
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1	2375.608	38.89	1.73	37.16	54.00	-15.11	249	168	Average	Vertical
2 *	2440.000	96.38	59.03	37.35	54.00	42.38	249	168	Average	Vertical
3	2815.630	40.68	2.56	38.12	54.00	-13.32	249	168	Average	Vertical



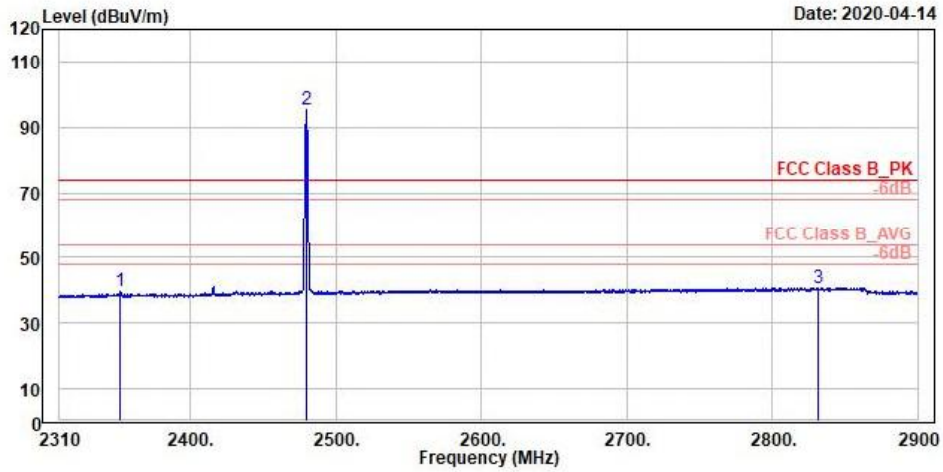
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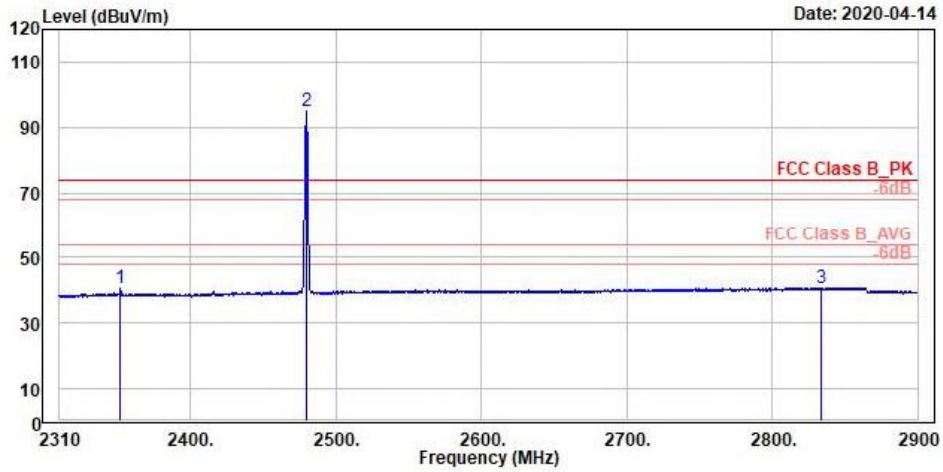
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1	2385.638	51.36	14.21	37.15	74.00	-22.64	100	231	Peak	Horizontal
2 *	2440.000	99.46	62.11	37.35	74.00	25.46	100	231	Peak	Horizontal
3	2829.200	53.21	15.11	38.10	74.00	-20.79	100	231	Peak	Horizontal



	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	2375.726	52.05	14.89	37.16	74.00	-21.95	249	168	Peak	Vertical
2 *	2440.000	97.30	59.95	37.35	74.00	23.30	249	168	Peak	Vertical
3	2744.004	53.17	15.15	38.02	74.00	-20.83	249	168	Peak	Vertical



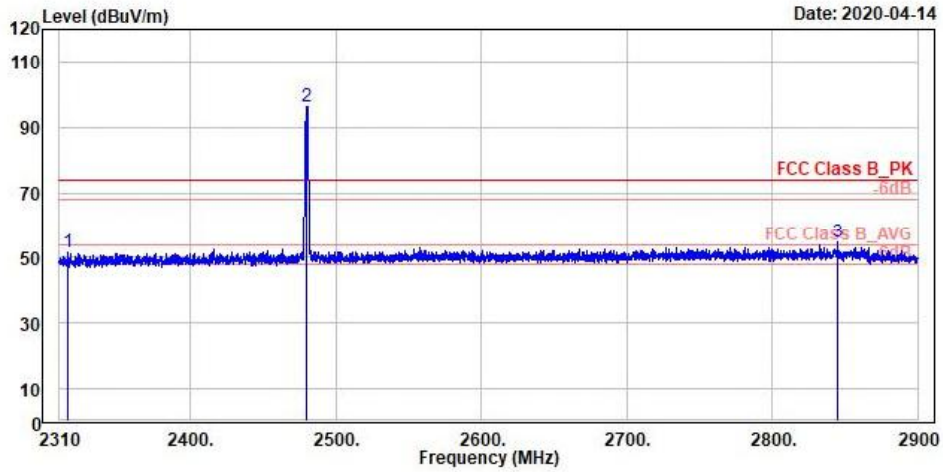
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1	2351.654	39.66	2.48	37.18	54.00	-14.34	100	230	Average	Horizontal
2 *	2480.000	95.25	57.69	37.56	54.00	41.25	100	230	Average	Horizontal
3	2831.678	40.67	2.57	38.10	54.00	-13.33	100	230	Average	Horizontal



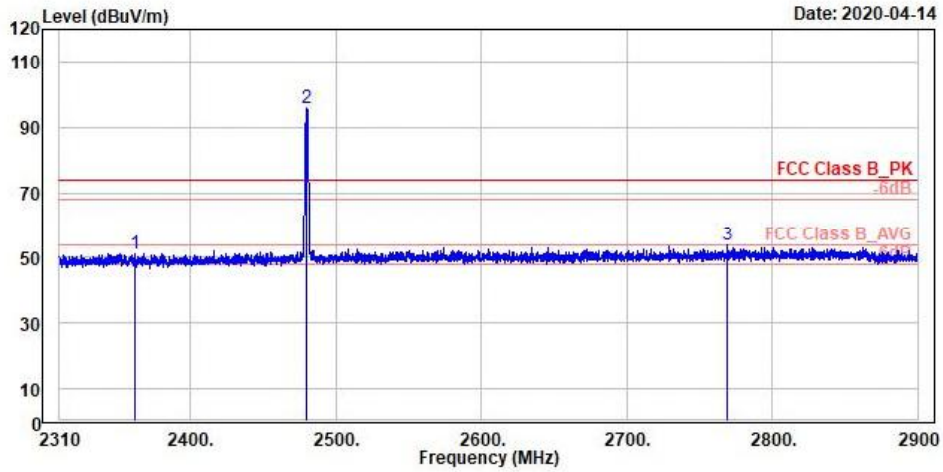
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1	2352.008	40.52	3.34	37.18	54.00	-13.48	375	191	Average	Vertical
2 *	2480.000	94.69	57.13	37.56	54.00	40.69	375	191	Average	Vertical
3	2834.156	40.78	2.68	38.10	54.00	-13.22	375	191	Average	Vertical



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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	2316.018	51.42	14.29	37.13	74.00	-22.58	100	230	Peak	Horizontal
2 *	2480.000	96.22	58.66	37.56	74.00	22.22	100	230	Peak	Horizontal
3	2845.484	54.67	16.58	38.09	74.00	-19.33	100	230	Peak	Horizontal

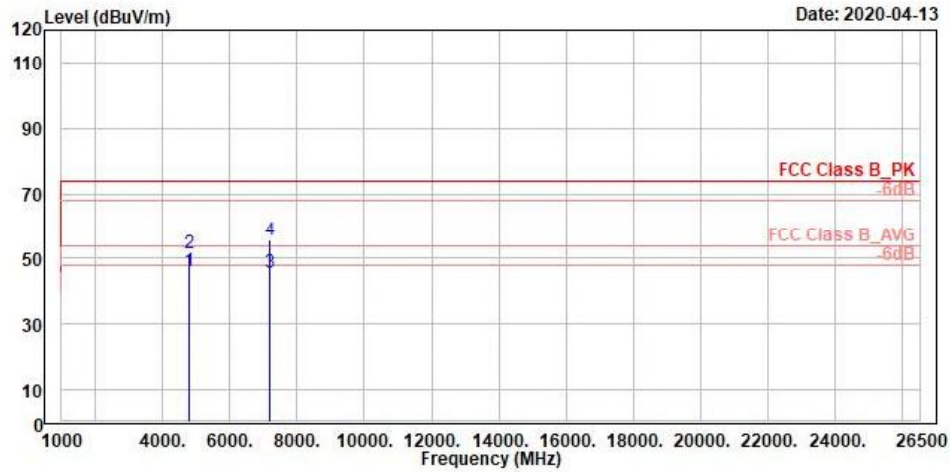


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2361.802	51.30	14.13	37.17	74.00	-22.70	375	191	Peak	Vertical
2 *	2480.000	95.65	58.09	37.56	74.00	21.65	375	191	Peak	Vertical
3	2769.492	53.90	15.81	38.09	74.00	-20.10	375	191	Peak	Vertical

Spurious Emissions, TX Mode, 1GHz-26.5GHz for Bluetooth Low Energy 1Mbps



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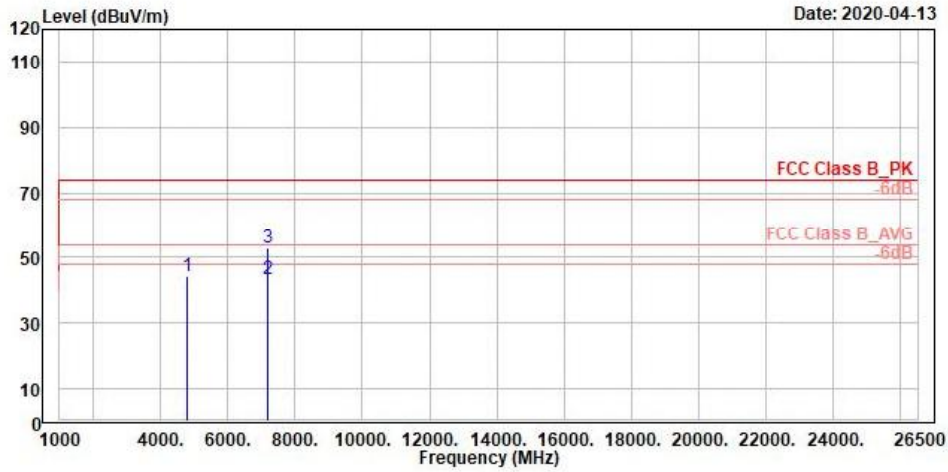


Date: 2020-04-13

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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4804.000	45.93	55.37	-9.44	54.00	-8.07	272	15	Average	horizontal
2	4804.000	51.76	61.20	-9.44	74.00	-22.24	272	15	Peak	horizontal
3	7206.000	45.49	52.31	-6.82	54.00	-8.51	112	251	Average	horizontal
4	7206.000	55.50	62.32	-6.82	74.00	-18.50	112	251	Peak	horizontal

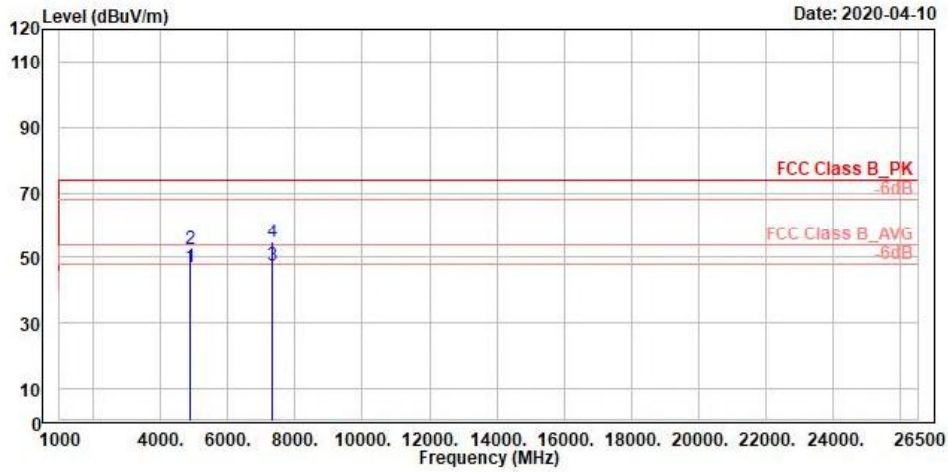


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Date: 2020-04-13

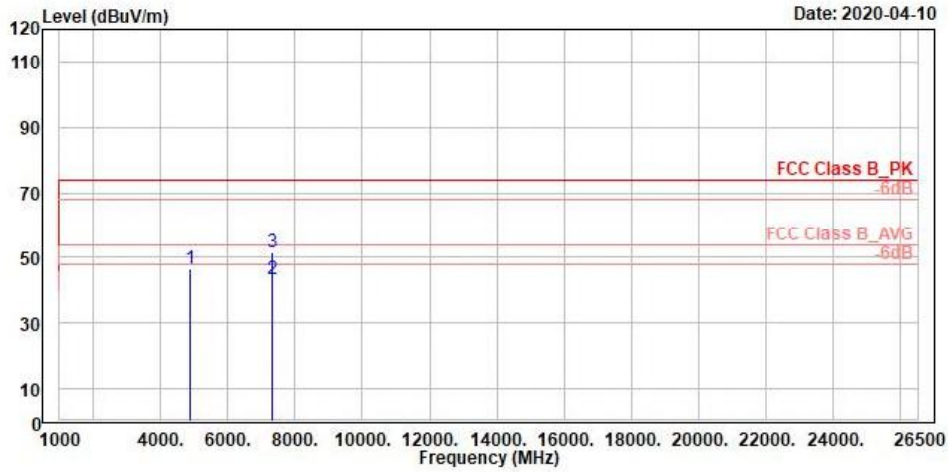
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1	4804.000	44.46	53.90	-9.44	74.00	-29.54	300	88	Peak	vertical
2	7206.000	43.42	50.24	-6.82	54.00	-10.58	400	220	Average	vertical
3	7206.000	52.96	59.78	-6.82	74.00	-21.04	400	220	Peak	vertical



	Freq	Level	Read Level	Limit	Over	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	4880.000	47.18	56.49	-9.31	54.00	-6.82	112	156 Average	horizontal
2	4880.000	52.48	61.79	-9.31	74.00	-21.52	112	156 Peak	horizontal
3	7320.000	47.35	54.05	-6.70	54.00	-6.65	106	246 Average	horizontal
4	7320.000	54.83	61.53	-6.70	74.00	-19.17	106	246 Peak	horizontal

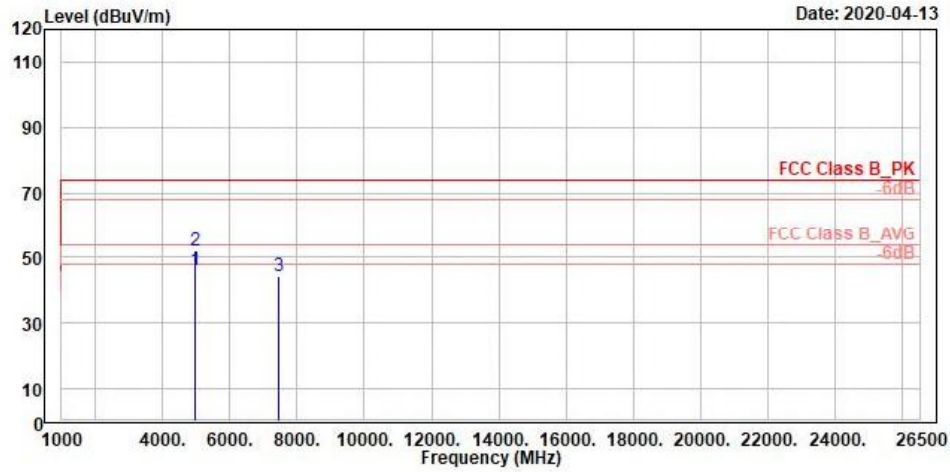


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Date: 2020-04-10

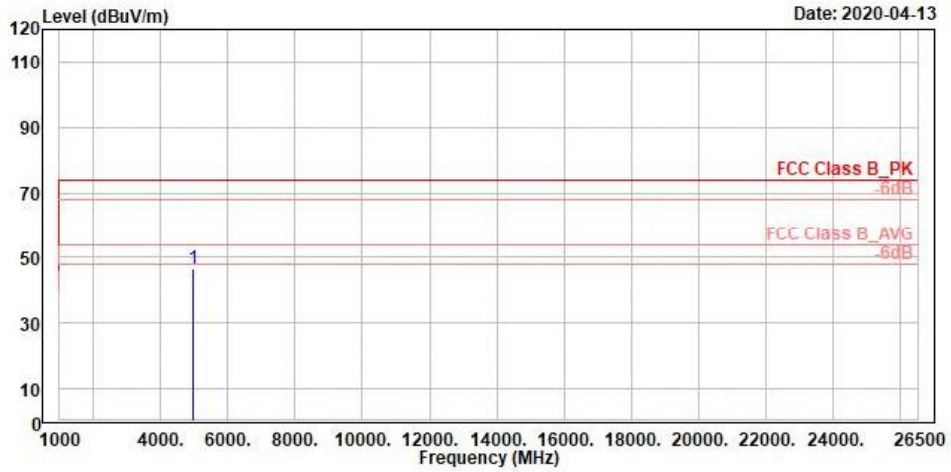
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1	4880.000	46.47	55.78	-9.31	74.00	-27.53	100	176	Peak	vertical
2	7320.000	43.47	50.17	-6.70	54.00	-10.53	400	206	Average	vertical
3	7320.000	51.41	58.11	-6.70	74.00	-22.59	400	206	Peak	vertical



	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	4960.000	45.98	55.11	-9.13	54.00	-8.02	122	7	Average	horizontal
2	4960.000	51.88	61.01	-9.13	74.00	-22.12	122	7	Peak	horizontal
3	7440.000	44.10	50.80	-6.70	74.00	-29.90	100	284	Peak	horizontal



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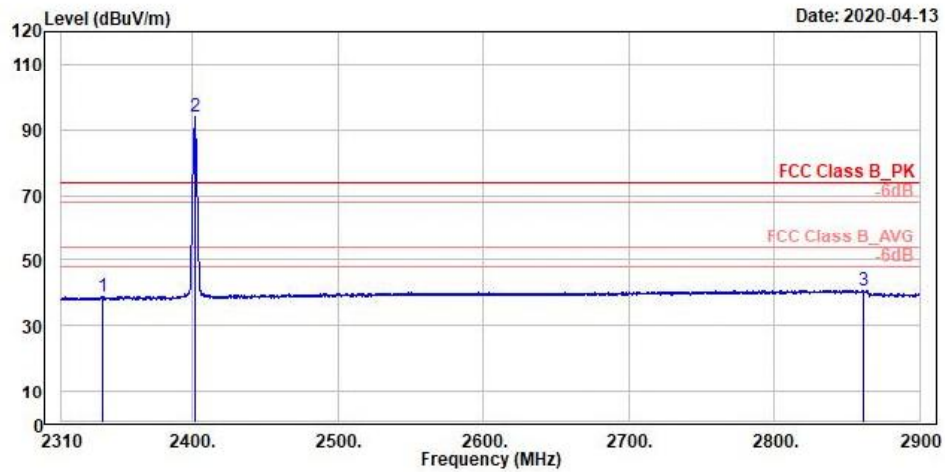


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1	4960.000	46.69	55.82	-9.13	74.00	-27.31	200	195 Peak	vertical

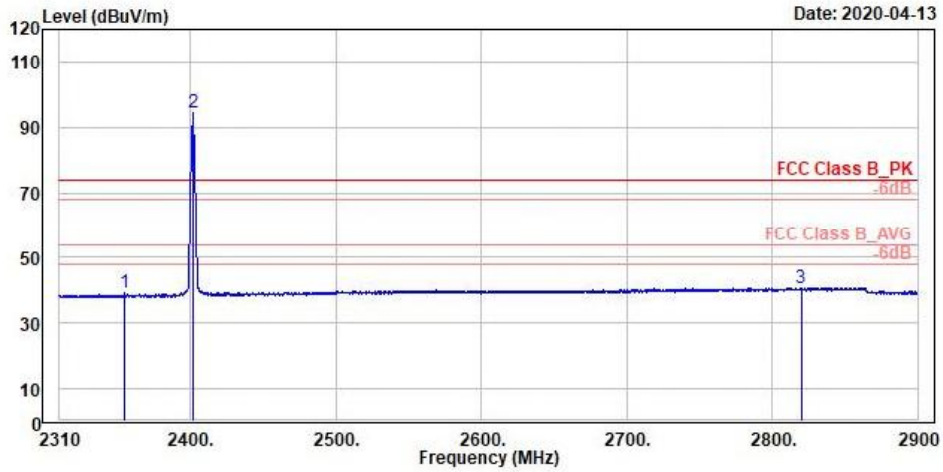
Spurious Emissions, Band Edges for Bluetooth Low Energy 2Mbps



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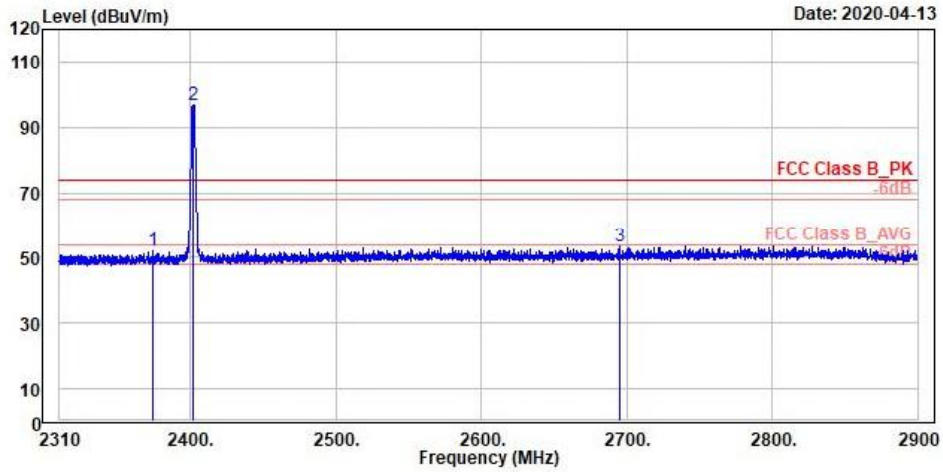
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1	2338.320	38.90	1.74	37.16	54.00	-15.10	100	180	Average	Horizontal
2 *	2402.000	94.22	57.07	37.15	54.00	40.22	100	180	Average	Horizontal
3	2861.414	40.77	2.69	38.08	54.00	-13.23	100	180	Average	Horizontal



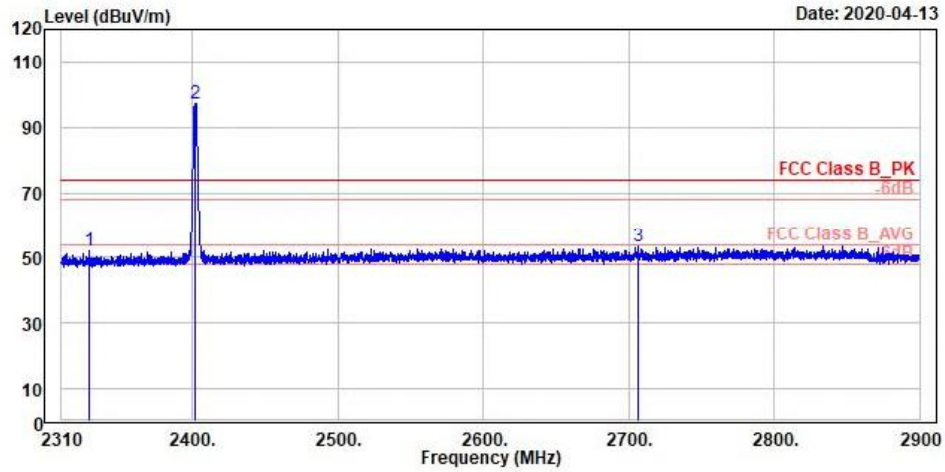
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1	2354.250	39.03	1.86	37.17	54.00	-14.97	252	166	Average	Vertical
2 *	2402.000	94.37	57.22	37.15	54.00	40.37	252	166	Average	Vertical
3	2819.996	40.81	2.70	38.11	54.00	-13.19	252	166	Average	Vertical



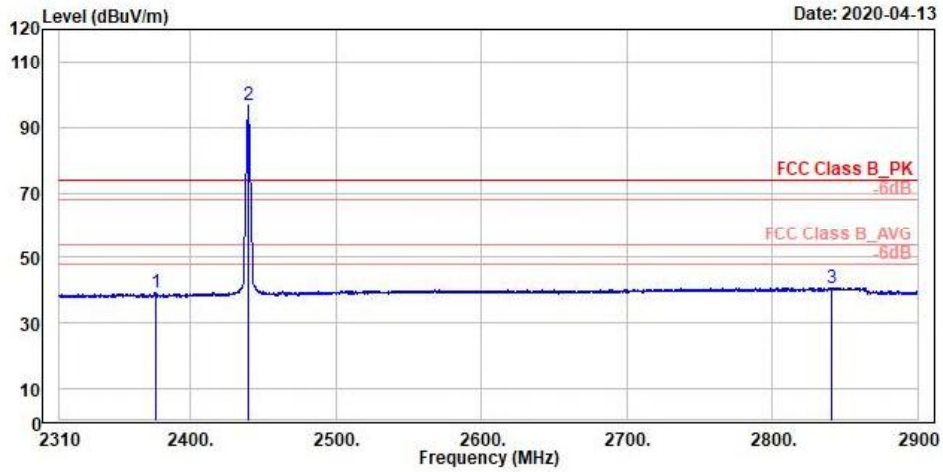
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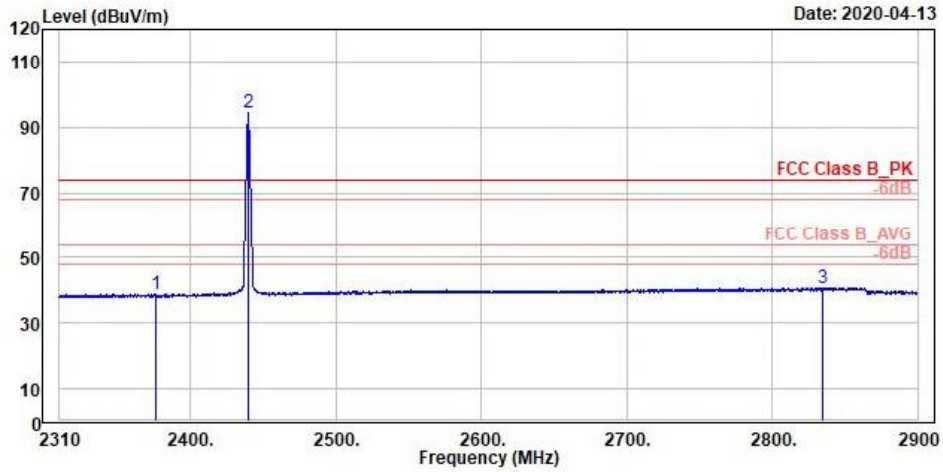
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2373.838	51.88	14.73	37.15	74.00	-22.12	100	180	Peak	Horizontal
2 *	2402.000	96.89	59.74	37.15	74.00	22.89	100	180	Peak	Horizontal
3	2695.506	53.52	15.83	37.69	74.00	-20.48	100	180	Peak	Horizontal



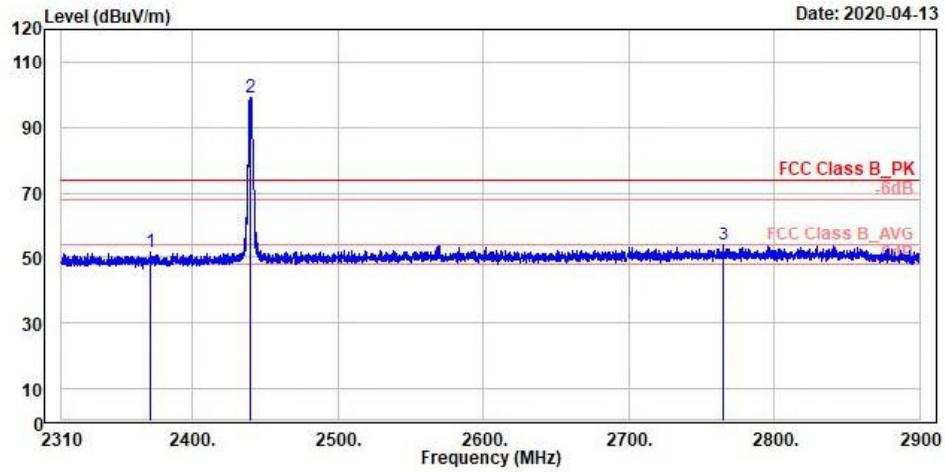
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1	2328.880	52.11	14.96	37.15	74.00	-21.89	252	166	Peak	Vertical
2 *	2402.000	97.03	59.88	37.15	74.00	23.03	252	166	Peak	Vertical
3	2706.480	53.61	15.86	37.75	74.00	-20.39	252	166	Peak	Vertical



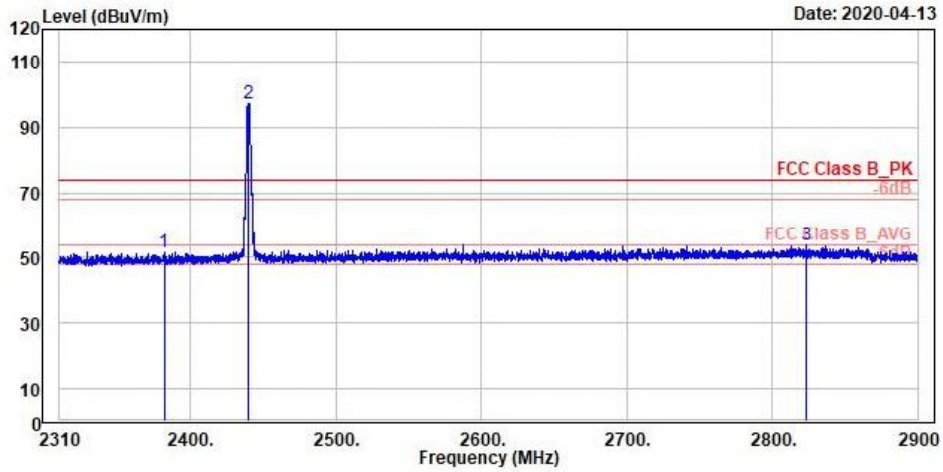
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2375.726	39.13	1.97	37.16	54.00	-14.87	100	231	Average	Horizontal
2 *	2440.000	96.53	59.18	37.35	54.00	42.53	100	231	Average	Horizontal
3	2841.000	40.65	2.55	38.10	54.00	-13.35	100	231	Average	Horizontal



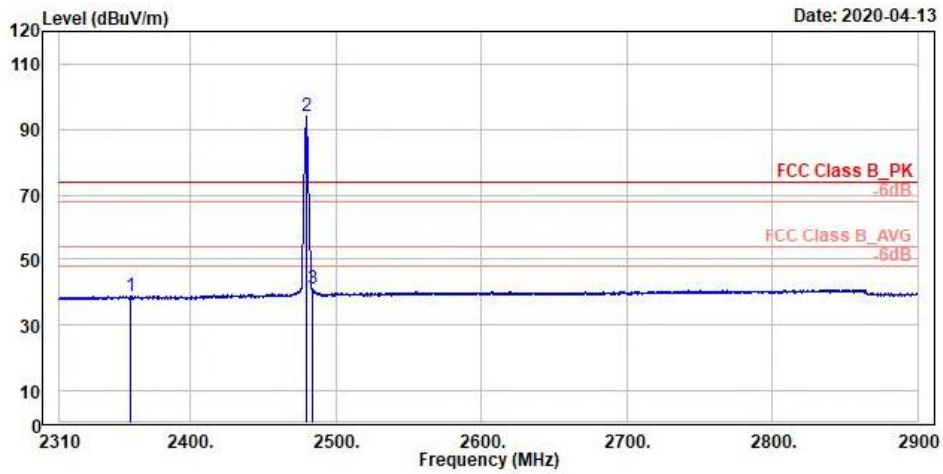
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2376.080	39.01	1.85	37.16	54.00	-14.99	248	168	Average	Vertical
2 *	2440.000	94.66	57.31	37.35	54.00	40.66	248	168	Average	Vertical
3	2835.218	40.70	2.60	38.10	54.00	-13.30	248	168	Average	Vertical



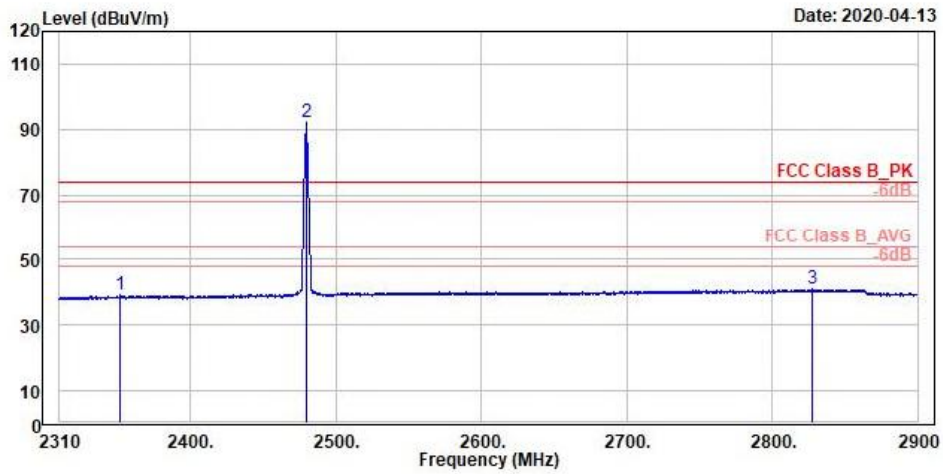
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2371.124	51.36	14.20	37.16	74.00	-22.64	100	231	Peak	Horizontal
2 *	2440.000	99.14	61.79	37.35	74.00	25.14	100	231	Peak	Horizontal
3	2765.008	53.71	15.63	38.08	74.00	-20.29	100	231	Peak	Horizontal



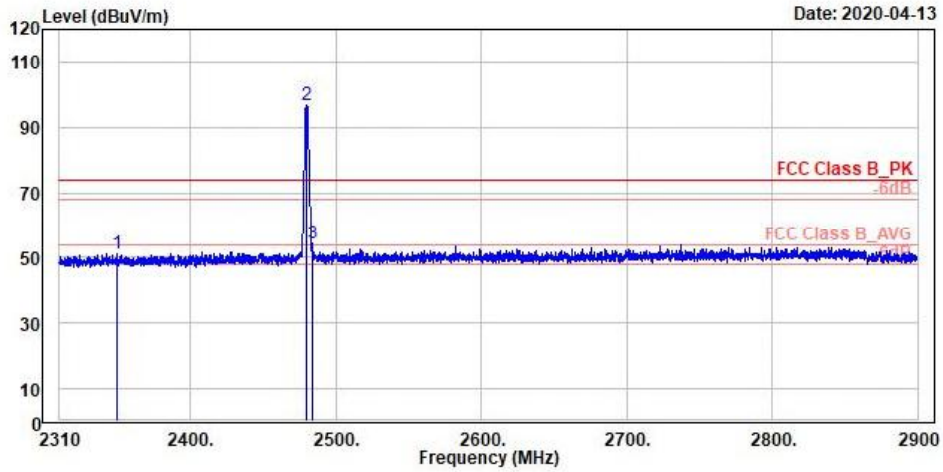
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2381.862	51.66	14.51	37.15	74.00	-22.34	248	168	Peak	Vertical
2 *	2440.000	97.26	59.91	37.35	74.00	23.26	248	168	Peak	Vertical
3	2823.300	53.68	15.58	38.10	74.00	-20.32	248	168	Peak	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	2359.206	38.79	1.62	37.17	54.00	-15.21	267	85	Average	Horizontal
2 *	2480.000	93.86	56.30	37.56	54.00	39.86	267	85	Average	Horizontal
3	2483.696	40.90	3.33	37.57	54.00	-13.10	267	85	Average	Horizontal

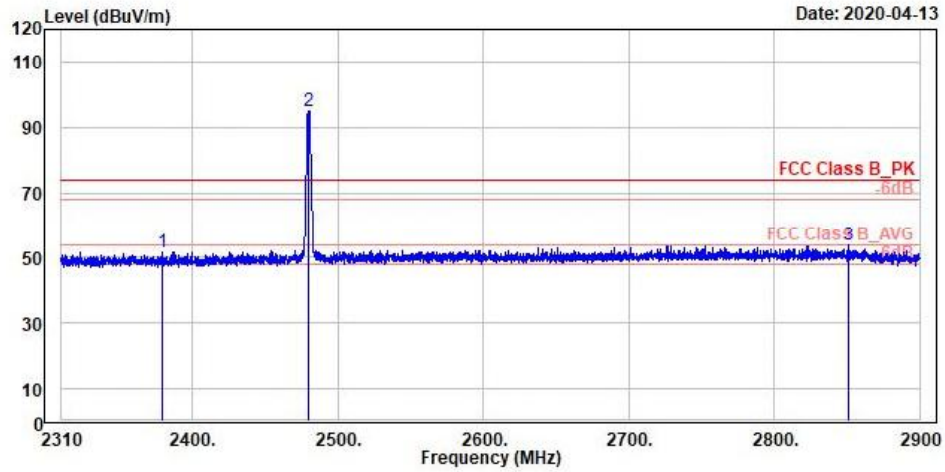


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2351.654	39.23	2.05	37.18	54.00	-14.77	304	134	Average	Vertical
2 *	2480.000	92.24	54.68	37.56	54.00	38.24	304	134	Average	Vertical
3	2827.902	40.90	2.80	38.10	54.00	-13.10	304	134	Average	Vertical



Date: 2020-04-13

	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	2349.648	51.05	13.88	37.17	74.00	-22.95	267	85	Peak	Horizontal
2 *	2480.000	96.52	58.96	37.56	74.00	22.52	267	85	Peak	Horizontal
3	2484.168	54.20	16.62	37.58	74.00	-19.80	267	85	Peak	Horizontal

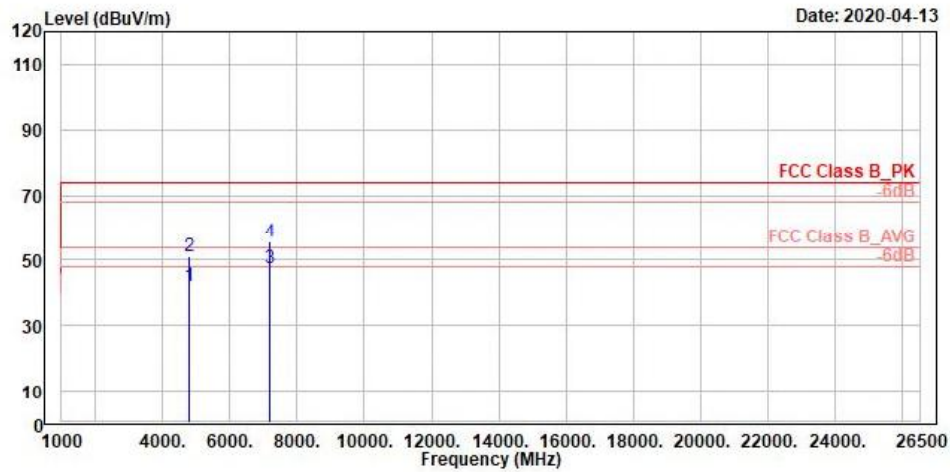


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2379.030	51.48	14.33	37.15	74.00	-22.52	304	134	Peak	Vertical
2 *	2480.000	94.87	57.31	37.56	74.00	20.87	304	134	Peak	Vertical
3	2851.148	53.63	15.54	38.09	74.00	-20.37	304	134	Peak	Vertical

Spurious Emissions, TX Mode, 1GHz-26.5GHz for Bluetooth Low Energy 2Mbps

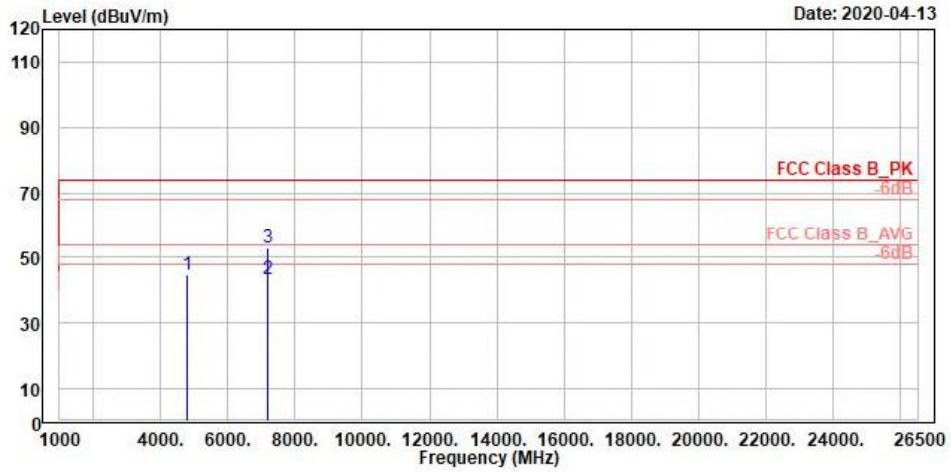


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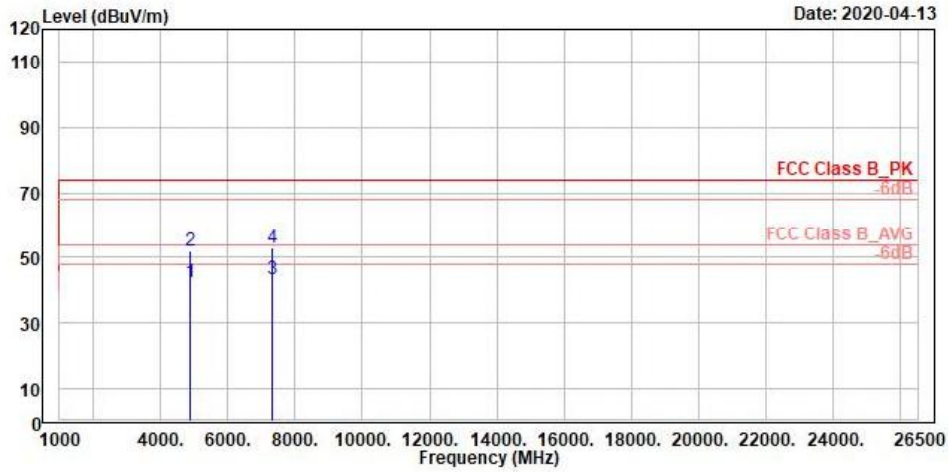


Date: 2020-04-13

	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	4804.000	42.05	51.49	-9.44	54.00	-11.95	288	360	Average	horizontal
2	4804.000	51.23	60.67	-9.44	74.00	-22.77	288	360	Peak	horizontal
3	7206.000	47.45	54.27	-6.82	54.00	-6.55	104	249	Average	horizontal
4	7206.000	55.47	62.29	-6.82	74.00	-18.53	104	249	Peak	horizontal



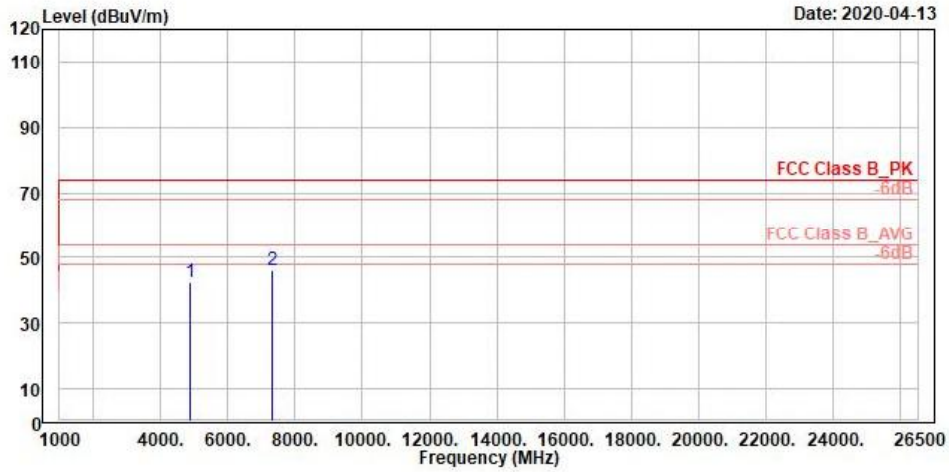
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBUV/m	dBuV	dB/m	dBUV/m	dB	cm	deg		
1	4804.000	44.91	54.35	-9.44	74.00	-29.09	400	78	Peak	vertical
2	7206.000	43.43	50.25	-6.82	54.00	-10.57	400	218	Average	vertical
3	7206.000	53.09	59.91	-6.82	74.00	-20.91	400	218	Peak	vertical



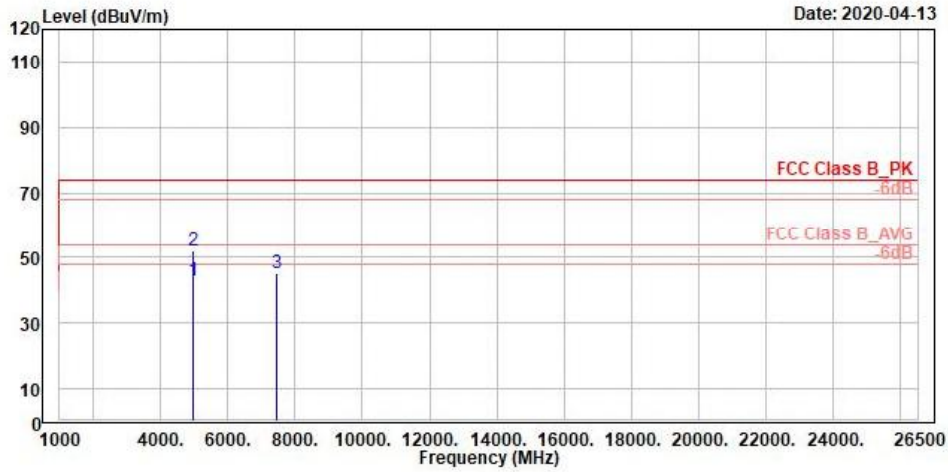
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4880.000	42.28	51.59	-9.31	54.00	-11.72	281	354	Average	horizontal
2	4880.000	52.04	61.35	-9.31	74.00	-21.96	281	354	Peak	horizontal
3	7320.000	43.53	50.23	-6.70	54.00	-10.47	100	248	Average	horizontal
4	7320.000	52.85	59.55	-6.70	74.00	-21.15	100	248	Peak	horizontal



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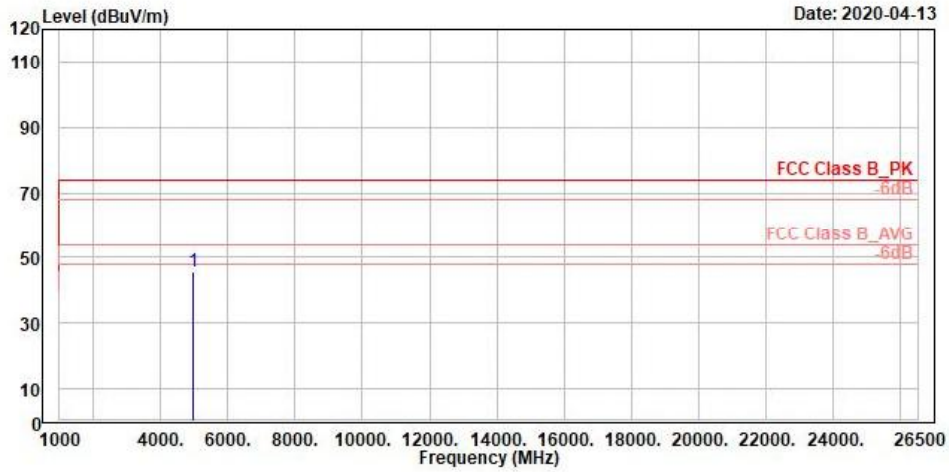
	Freq	Level	Read Level	Limit	Over	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	4880.000	42.26	51.57	-9.31	74.00	-31.74	400	230	Peak vertical
2	7320.000	46.11	52.81	-6.70	74.00	-27.89	400	230	Peak vertical



	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	4960.000	42.67	51.80	-9.13	54.00	-11.33	124	9	Average	horizontal
2	4960.000	52.01	61.14	-9.13	74.00	-21.99	124	9	Peak	horizontal
3	7440.000	45.34	52.04	-6.70	74.00	-28.66	100	249	Peak	horizontal



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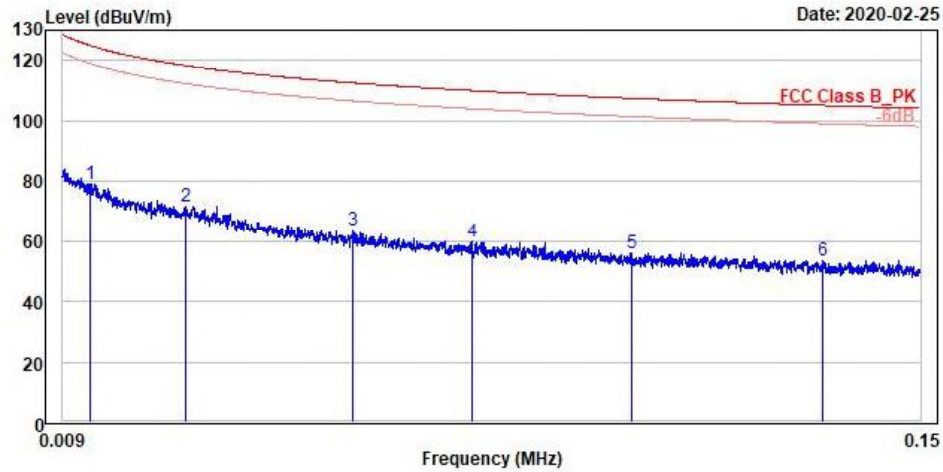
Date: 2020-04-13

	Freq	Level	Read Level	Limit	Over	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	4960.000	45.51	54.64	-9.13	74.00	-28.49	343	360 Peak	vertical

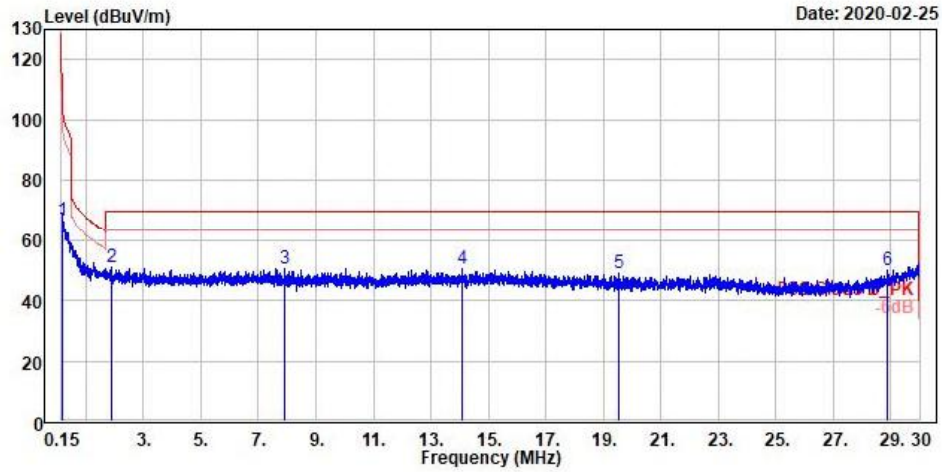
Spurious Emissions, TX Mode, 9kHz-30MHz for Bluetooth Low Energy 2Mbps



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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	0.014	79.33	2.79	76.54	124.88	-45.55	100	311	QP	vertical
2	0.029	71.90	1.01	70.89	118.29	-46.39	100	90	QP	vertical
3	0.057	63.68	-0.42	64.10	112.51	-48.83	100	90	QP	vertical
4	0.076	59.81	-1.85	61.66	109.95	-50.14	100	87	QP	vertical
5	0.102	56.03	-3.08	59.11	107.39	-51.36	100	294	QP	vertical
6	0.134	53.47	-3.81	57.28	105.06	-51.59	100	87	QP	vertical

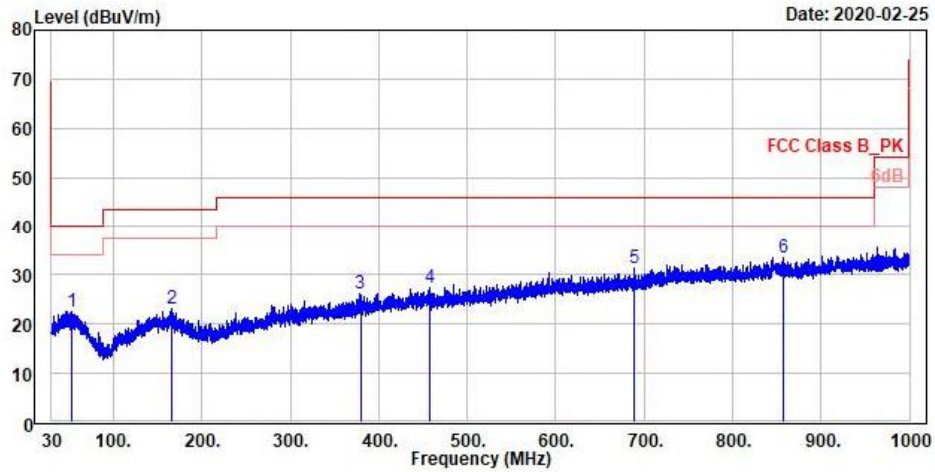


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.201	66.55	13.12	53.43	101.55	-35.00	100	182	QP	vertical
2	1.884	51.03	12.18	38.85	69.50	-18.47	100	41	QP	vertical
3	7.920	50.44	12.35	38.09	69.50	-19.06	100	231	QP	vertical
4	14.108	50.48	12.85	37.63	69.50	-19.02	100	192	QP	vertical
5	19.520	48.75	12.40	36.35	69.50	-20.75	100	129	QP	vertical
6	28.887	49.73	12.75	36.98	69.50	-19.77	100	8	QP	vertical

Spurious Emissions, TX Mode, 30MHz-1GHz for Bluetooth Low Energy 2Mbps



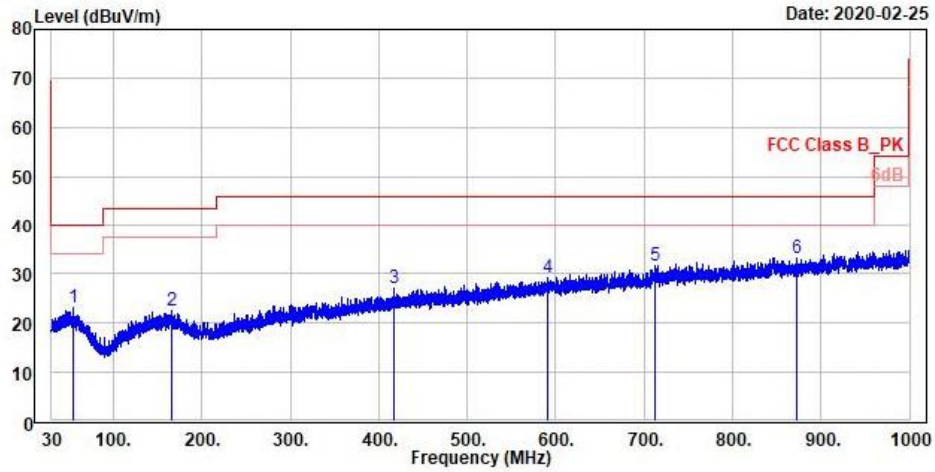
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	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	52.116	22.62	28.67	-6.05	40.00	-17.38	390	360	QP	horizontal
2	166.576	23.00	28.94	-5.94	43.50	-20.50	200	216	QP	horizontal
3	379.200	26.21	29.71	-3.50	46.00	-19.79	400	261	QP	horizontal
4	457.867	27.41	29.62	-2.21	46.00	-18.59	200	187	QP	horizontal
5	688.824	31.23	29.96	1.27	46.00	-14.77	300	53	QP	horizontal
6	856.828	33.51	29.99	3.52	46.00	-12.49	400	337	QP	horizontal



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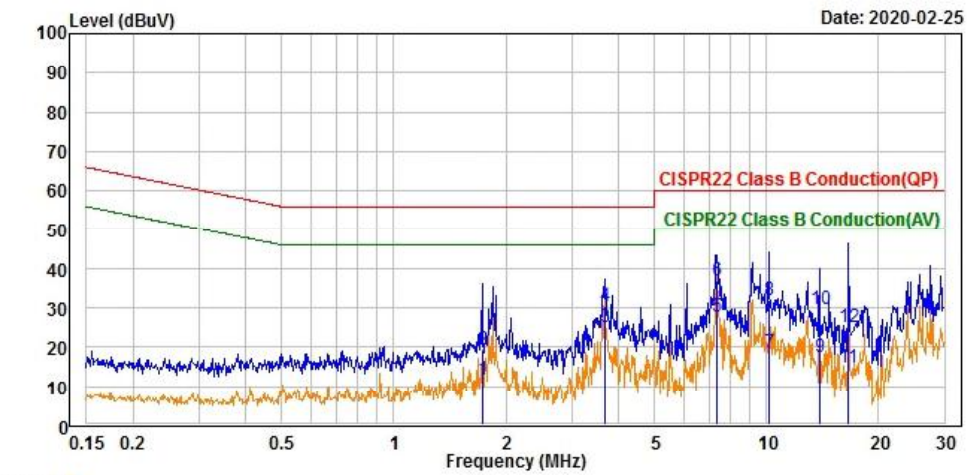
Date: 2020-02-25

	Freq	Level	Read Level	Limit	Over	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	55.123	23.01	29.22	-6.21	40.00	-16.99	200	119 QP	vertical
2	165.800	22.41	28.33	-5.92	43.50	-21.09	300	221 QP	vertical
3	416.933	27.04	29.89	-2.85	46.00	-18.96	300	10 QP	vertical
4	591.339	29.15	29.20	-0.05	46.00	-16.85	100	83 QP	vertical
5	712.686	31.73	30.25	1.48	46.00	-14.27	100	102 QP	vertical
6	873.415	33.25	29.57	3.68	46.00	-12.75	300	146 QP	vertical

Spurious Emissions, AC Mains

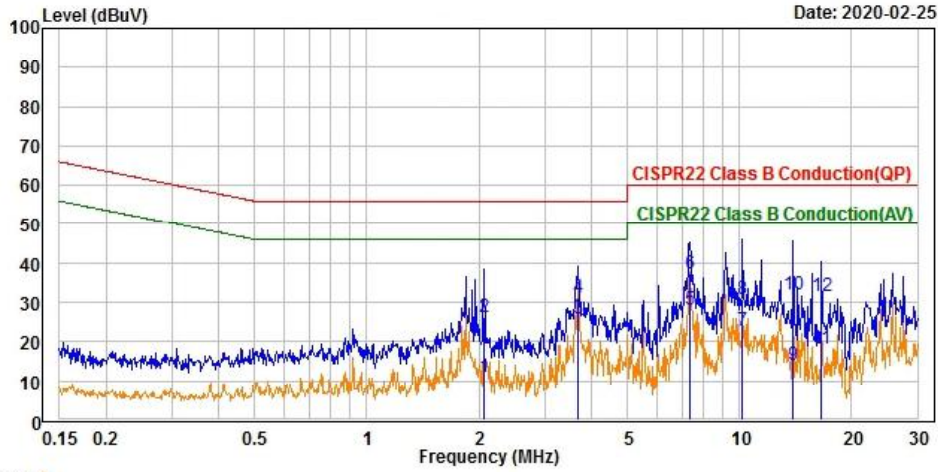


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Trace: 1

	Freq	Level	Read	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	Level	Line	Limit		
			Factor				
			dB	dBuV	dB		
1	1.72	11.71	2.07	9.64	46.00	-34.29 Average	line1
2	1.72	19.43	9.79	9.64	56.00	-36.57 QP	line1
3	3.68	24.99	15.32	9.67	46.00	-21.01 Average	line1
4	3.68	30.33	20.66	9.67	56.00	-25.67 QP	line1
5	7.36	27.79	18.09	9.70	50.00	-22.21 Average	line1
6	7.36	37.06	27.36	9.70	60.00	-22.94 QP	line1
7	10.12	18.60	8.87	9.73	50.00	-31.40 Average	line1
8	10.12	31.97	22.24	9.73	60.00	-28.03 QP	line1
9	13.85	17.67	7.92	9.75	50.00	-32.33 Average	line1
10	13.85	29.53	19.78	9.75	60.00	-30.47 QP	line1
11	16.58	14.99	5.22	9.77	50.00	-35.01 Average	line1
12	16.58	25.09	15.32	9.77	60.00	-34.91 QP	line1



Trace: 1

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dBuV	dB	dBuV	dB		
1	2.06	11.18	1.53	9.65	46.00	-34.82	Average	neutral
2	2.06	26.05	16.40	9.65	56.00	-29.95	QP	neutral
3	3.68	25.98	16.30	9.68	46.00	-20.02	Average	neutral
4	3.68	31.12	21.44	9.68	56.00	-24.88	QP	neutral
5	7.36	28.15	18.44	9.71	50.00	-21.85	Average	neutral
6	7.36	37.35	27.64	9.71	60.00	-22.65	QP	neutral
7	10.17	22.64	12.90	9.74	50.00	-27.36	Average	neutral
8	10.17	30.76	21.02	9.74	60.00	-29.24	QP	neutral
9	13.92	14.02	4.24	9.78	50.00	-35.98	Average	neutral
10	13.92	31.92	22.14	9.78	60.00	-28.08	QP	neutral
11	16.58	18.18	8.38	9.80	50.00	-31.82	Average	neutral
12	16.58	31.50	21.70	9.80	60.00	-28.50	QP	neutral