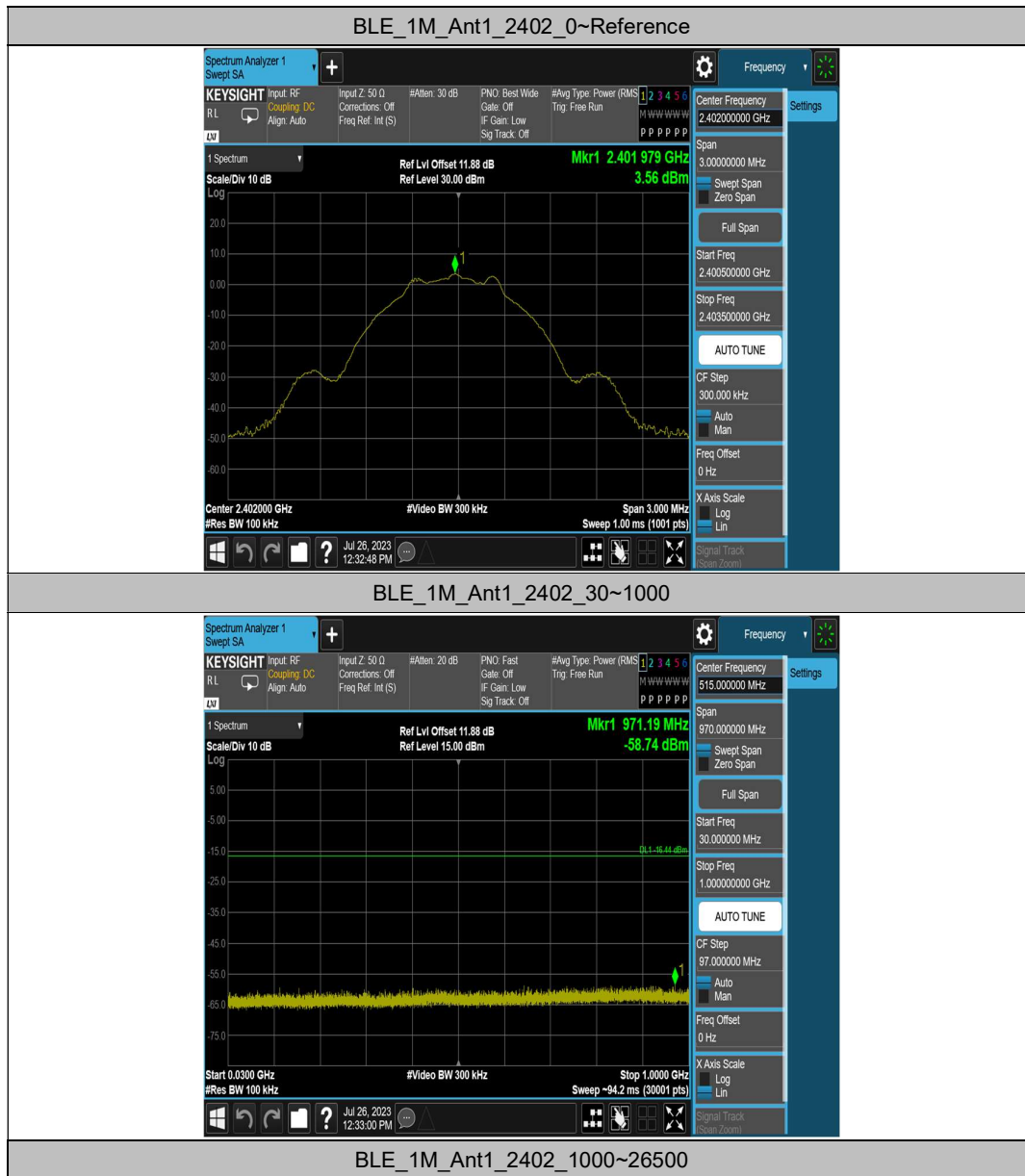


Test Graphs

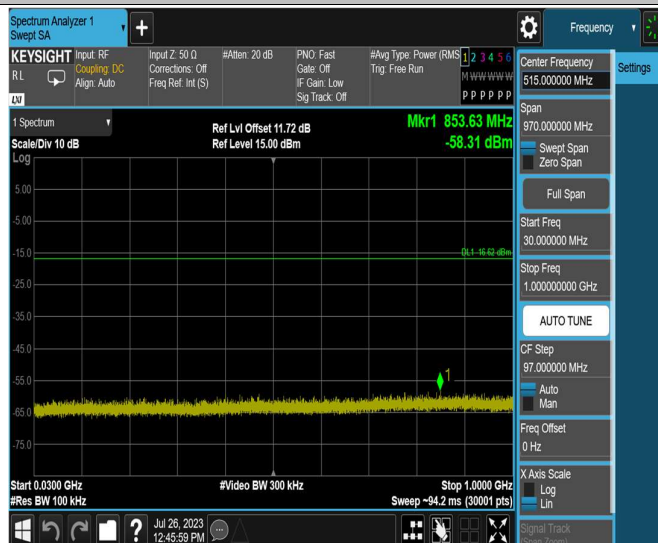




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

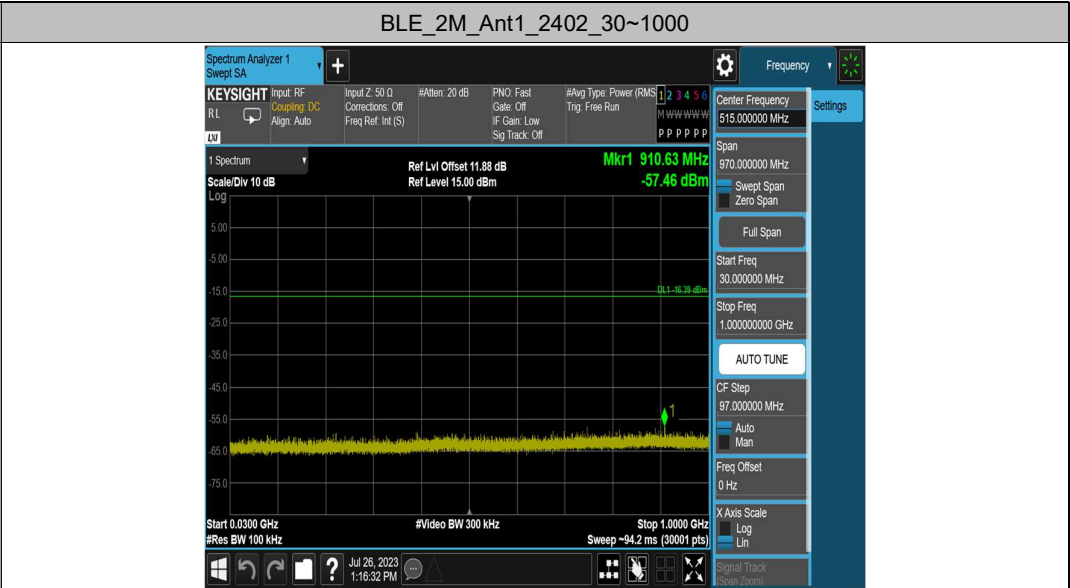


BLE_1M_Ant1_2480_1000~26500



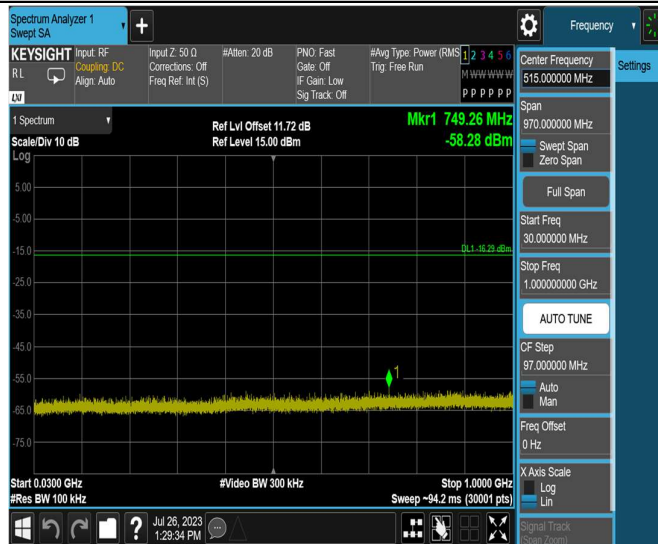
BLE_2M_Ant1_2402_0~Reference







BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



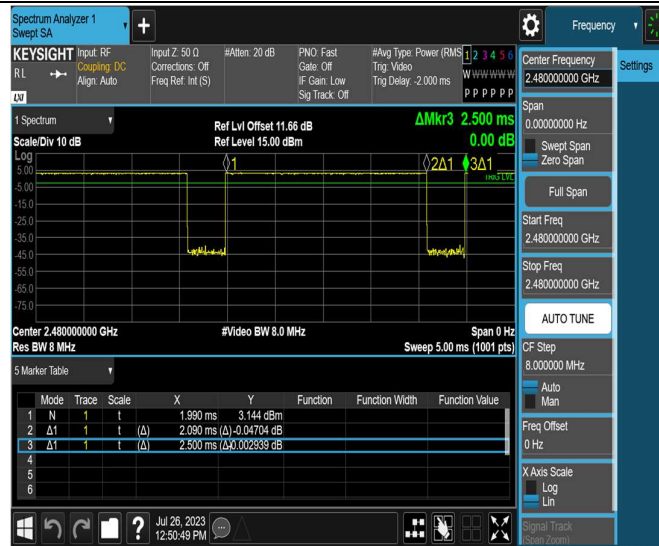
Appendix G: Duty Cycle

Test Result

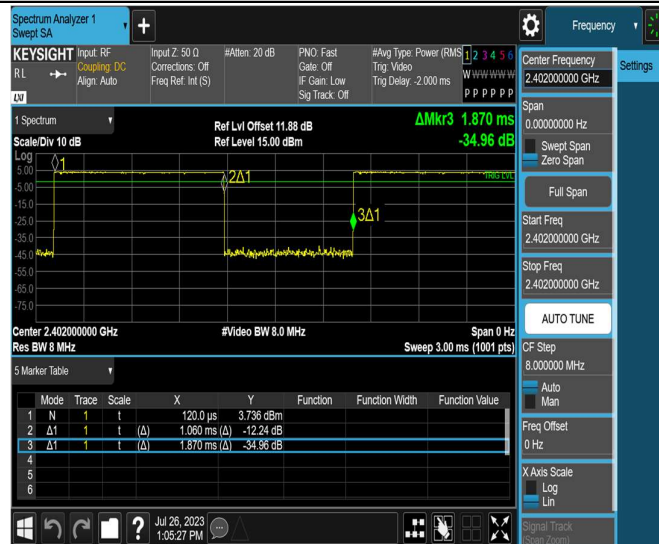
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	2.10	2.50	84.00
		2440	2.09	2.50	83.60
		2480	2.09	2.50	83.60
BLE_2M	Ant1	2402	1.06	1.87	56.68
		2440	1.07	1.88	56.91
		2480	1.06	1.87	56.68

Test Graphs





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

Mode:	BLE-1M-2402
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310	47.15	7.07	74.00	26.85	150	130	Horizontal
2	2336	48.70	7.19	74.00	25.30	150	8	Horizontal
3	2362.64	49.19	7.41	74.00	24.81	150	316	Horizontal
4	2376.64	49.27	7.88	74.00	24.73	150	26	Horizontal
5	2382.16	48.81	7.95	74.00	25.19	150	93	Horizontal
6	2390	48.55	8.38	74.00	25.45	150	44	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310	47.26	7.07	74.00	26.74	150	134	Vertical
2	2325.68	48.78	7.16	74.00	25.22	150	63	Vertical
3	2342.24	48.10	7.28	74.00	25.90	150	190	Vertical
4	2365.76	48.45	7.48	74.00	25.55	150	4	Vertical
5	2382.8	48.81	8.03	74.00	25.19	150	239	Vertical
6	2390	48.22	8.38	74.00	25.78	150	100	Vertical

Mode:	BLE-1M-2480
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	50.81	8.62	74.00	23.19	150	270	Horizontal
2	2484.34	51.91	8.53	74.00	22.09	150	308	Horizontal
3	2486.25	50.72	8.37	74.00	23.28	150	280	Horizontal
4	2497.04	50.27	8.29	74.00	23.73	150	73	Horizontal
5	2498.82	49.91	8.24	74.00	24.09	150	70	Horizontal
6	2500	47.17	8.10	74.00	26.83	150	89	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	49.26	8.62	74.00	24.74	150	296	Vertical
2	2485.87	49.87	8.40	74.00	24.13	150	140	Vertical
3	2487.80	49.54	8.24	74.00	24.46	150	332	Vertical
4	2491.22	49.82	8.36	74.00	24.18	150	167	Vertical
5	2497.85	49.81	8.20	74.00	24.19	150	269	Vertical
6	2500	47.82	8.10	74.00	26.18	150	0	Vertical

Mode:	BLE 2M-2402
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310	46.33	7.07	74.00	27.67	150	280	Horizontal
2	2334	48.50	7.19	74.00	25.50	150	348	Horizontal
3	2349.6	48.63	7.23	74.00	25.37	150	339	Horizontal
4	2365.68	48.50	7.49	74.00	25.50	150	121	Horizontal
5	2385.84	49.40	8.22	74.00	24.60	150	298	Horizontal
6	2390	49.10	8.38	74.00	24.90	150	89	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310	46.71	7.07	74.00	27.29	150	343	Vertical
2	2337.68	48.67	7.20	74.00	25.33	150	222	Vertical
3	2347.68	48.31	7.24	74.00	25.69	150	297	Vertical
4	2361.36	49.39	7.36	74.00	24.61	150	219	Vertical
5	2377.12	49.01	7.88	74.00	24.99	150	95	Vertical
6	2390	48.87	8.38	74.00	25.13	150	316	Vertical

Mode:	BLE 2M-2480
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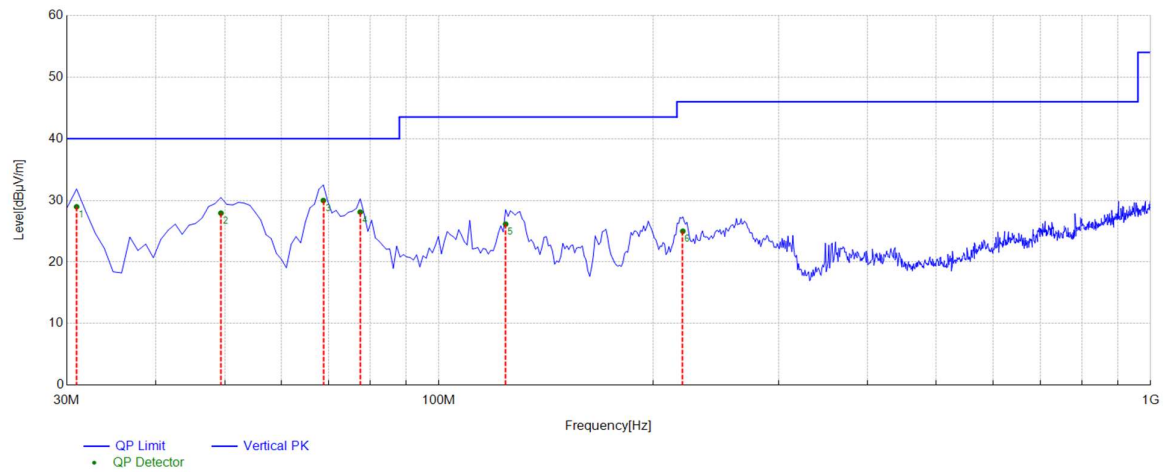
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	50.26	8.62	74.00	23.74	150	288	Horizontal
2	2483.71	52.62	8.59	74.00	21.38	150	314	Horizontal
3	2486.68	51.31	8.35	74.00	22.69	150	288	Horizontal
4	2488.51	49.69	8.23	74.00	24.31	150	103	Horizontal
5	2492.03	49.80	8.40	74.00	24.20	150	351	Horizontal
6	2500	47.94	8.10	74.00	26.06	150	288	Horizontal

NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	48.80	8.62	74.00	25.20	150	316	Vertical
2	2486.60	50.30	8.36	74.00	23.70	150	252	Vertical
3	2489.14	50.64	8.25	74.00	23.36	150	298	Vertical
4	2490.67	51.67	8.32	74.00	22.33	150	89	Vertical
5	2497.83	49.58	8.20	74.00	24.42	150	5	Vertical
6	2500	48.18	8.10	74.00	25.82	150	153	Vertical

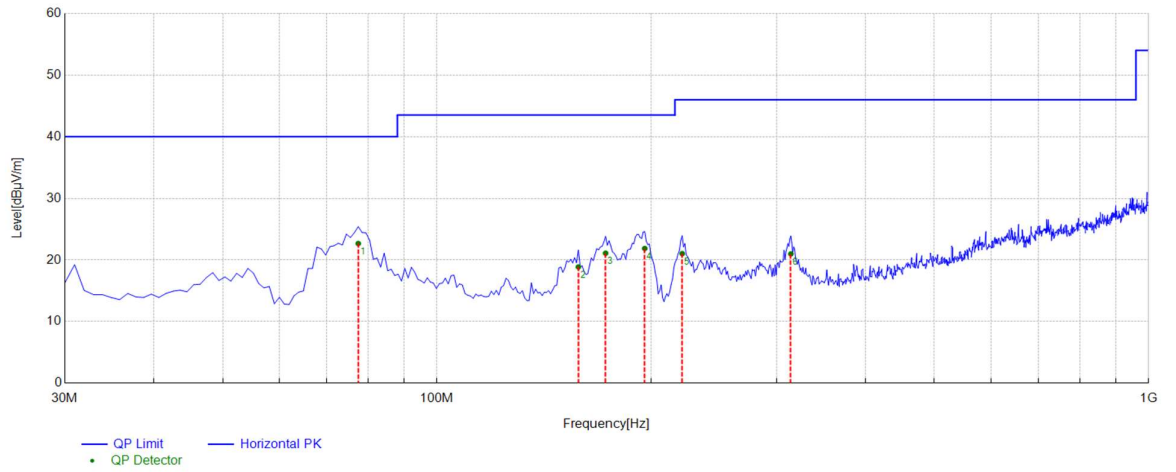
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Appendix I: Spurious emissions



Final Data List									
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	30.97	-17.06	28.96	40.00	11.04	100	127	Vertical	PASS
2	49.4	-16.26	27.93	40.00	12.07	100	186	Vertical	PASS
3	68.8	-18.54	29.98	40.00	10.02	100	186	Vertical	PASS
4	77.53	-20.08	28.10	40.00	11.90	100	166	Vertical	PASS
5	124.09	-17.76	26.15	43.50	17.35	100	102	Vertical	PASS
6	220.12	-18.97	25.00	46.00	21.00	100	205	Vertical	PASS



Final Data List									
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	77.53	-20.08	22.68	40.00	17.32	100	124	Horizontal	PASS
2	158.04	-15.69	18.88	43.50	24.62	200	10	Horizontal	PASS
3	172.59	-16.69	21.10	43.50	22.40	100	308	Horizontal	PASS
4	195.87	-18.80	21.87	43.50	21.63	100	68	Horizontal	PASS
5	221.09	-18.96	21.04	46.00	24.96	100	135	Horizontal	PASS
6	314.21	-15.37	20.99	46.00	25.01	200	278	Horizontal	PASS

Mode:	BLE-2402
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1326	41.61	1.12	74.00	32.39	150	27	Horizontal
2	2048	46.66	6.33	74.00	27.34	150	218	Horizontal
3	4149	42.68	-16.18	74.00	31.32	150	256	Horizontal
4	5745	44.91	-13.22	74.00	29.09	150	168	Horizontal
5	6825	45.51	-11.96	74.00	28.49	150	30	Horizontal
6	11751	47.54	-5.41	74.00	26.46	150	104	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1304	42.07	1.18	74.00	31.93	150	300	Vertical
2	2098	46.32	6.47	74.00	27.68	150	122	Vertical
3	4731	45.80	-14.84	74.00	28.20	150	201	Vertical
4	6576	46.29	-12.30	74.00	27.71	150	237	Vertical
5	9609	45.87	-8.59	74.00	28.13	150	156	Vertical
6	11010	47.84	-6.63	74.00	26.16	150	60	Vertical

Mode:	BLE-2440
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1248	41.65	1.03	74.00	32.35	150	222	Horizontal
2	1888	45.41	5.14	74.00	28.59	150	279	Horizontal
3	4629	43.07	-15.57	74.00	30.93	150	165	Horizontal
4	5928	44.39	-12.26	74.00	29.61	150	231	Horizontal
5	7968	45.27	-10.94	74.00	28.73	150	219	Horizontal
6	13257	48.89	-2.80	74.00	25.11	150	18	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1316	41.94	1.15	74.00	32.06	150	228	Vertical
2	2126	46.74	6.58	74.00	27.26	150	285	Vertical
3	3948	45.56	-17.32	74.00	28.44	150	259	Vertical
4	5583	44.09	-13.32	74.00	29.91	150	321	Vertical
5	8004	44.54	-11.21	74.00	29.46	150	165	Vertical
6	14367	48.78	-1.28	74.00	25.22	150	133	Vertical

Mode:	BLE-2480
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1190	41.42	1.10	74.00	32.58	150	4	Horizontal
2	2102	46.18	6.48	74.00	27.82	150	45	Horizontal
3	3942	43.06	-17.22	74.00	30.94	150	60	Horizontal
4	4962	43.95	-15.15	74.00	30.05	150	279	Horizontal
5	7653	44.50	-11.29	74.00	29.50	150	80	Horizontal
6	12348	48.54	-4.48	74.00	25.46	150	0	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1486	42.71	1.34	74.00	31.29	150	77	Vertical
2	2012	46.19	6.18	74.00	27.81	150	176	Vertical
3	3714	42.01	-17.72	74.00	31.99	150	336	Vertical
4	5877	44.09	-12.72	74.00	29.91	150	25	Vertical
5	8202	44.86	-10.23	74.00	29.14	150	321	Vertical
6	11466	48.17	-5.63	74.00	25.83	150	343	Vertical

Mode:	BLE 2M-2402
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1372	42.01	1.15	74.00	31.99	150	304	Horizontal
2	2014	46.15	6.18	74.00	27.85	150	201	Horizontal
3	4482	43.14	-15.88	74.00	30.86	150	346	Horizontal
4	6411	44.20	-12.28	74.00	29.80	150	322	Horizontal
5	9666	45.46	-8.51	74.00	28.54	150	303	Horizontal
6	13092	48.83	-3.22	74.00	25.17	150	270	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1292	41.81	1.16	74.00	32.19	150	19	Vertical
2	2010	45.38	6.17	74.00	28.62	150	88	Vertical
3	3993	42.56	-16.60	74.00	31.44	150	190	Vertical
4	5253	44.93	-14.20	74.00	29.07	150	102	Vertical
5	8235	45.71	-10.22	74.00	28.29	150	238	Vertical
6	12093	47.92	-3.89	74.00	26.08	150	149	Vertical

Mode:	BLE 2M-2440
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1248	41.72	1.03	74.00	32.28	150	254	Horizontal
2	1996	45.36	6.08	74.00	28.64	150	254	Horizontal
3	5850	44.82	-12.71	74.00	29.18	150	297	Horizontal
4	8184	45.42	-10.56	74.00	28.58	150	220	Horizontal
5	10560	46.73	-7.10	74.00	27.27	150	256	Horizontal
6	15663	49.74	-0.45	74.00	24.26	150	343	Horizontal

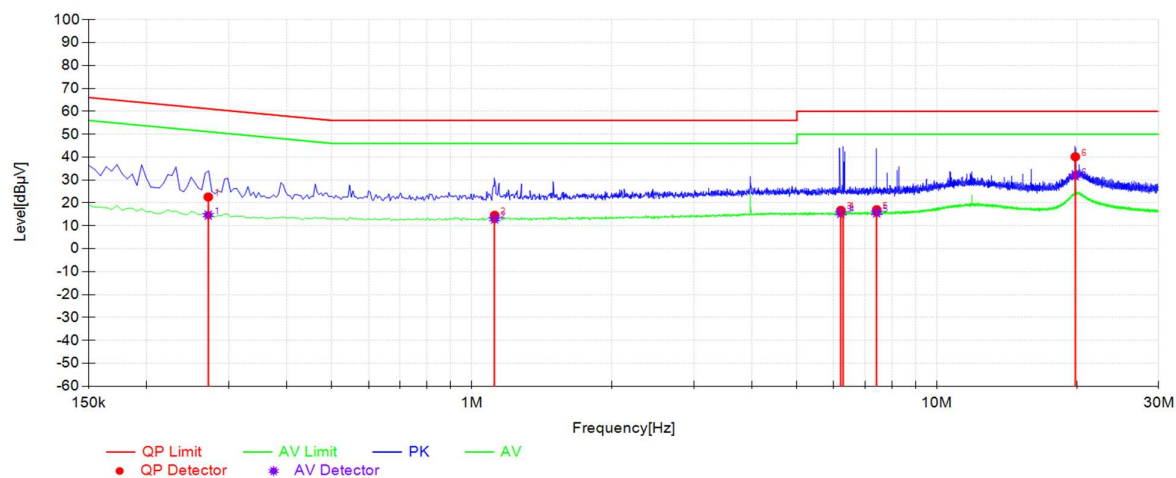
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1316	41.49	1.15	74.00	32.51	150	240	Vertical
2	1886	45.34	5.12	74.00	28.66	150	311	Vertical
3	4431	43.06	-15.95	74.00	30.94	150	186	Vertical
4	5001	43.58	-14.79	74.00	30.42	150	1	Vertical
5	7896	45.45	-11.21	74.00	28.55	150	74	Vertical
6	11724	48.13	-5.45	74.00	25.87	150	55	Vertical

Mode:	BLE 2M-2480
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1304	41.53	1.18	74.00	32.47	150	4	Horizontal
2	1710	44.09	3.26	74.00	29.91	150	138	Horizontal
3	4245	42.41	-16.65	74.00	31.59	150	38	Horizontal
4	6006	44.42	-12.18	74.00	29.58	150	139	Horizontal
5	7953	44.67	-10.83	74.00	29.33	150	224	Horizontal
6	11181	47.13	-5.98	74.00	26.87	150	224	Horizontal

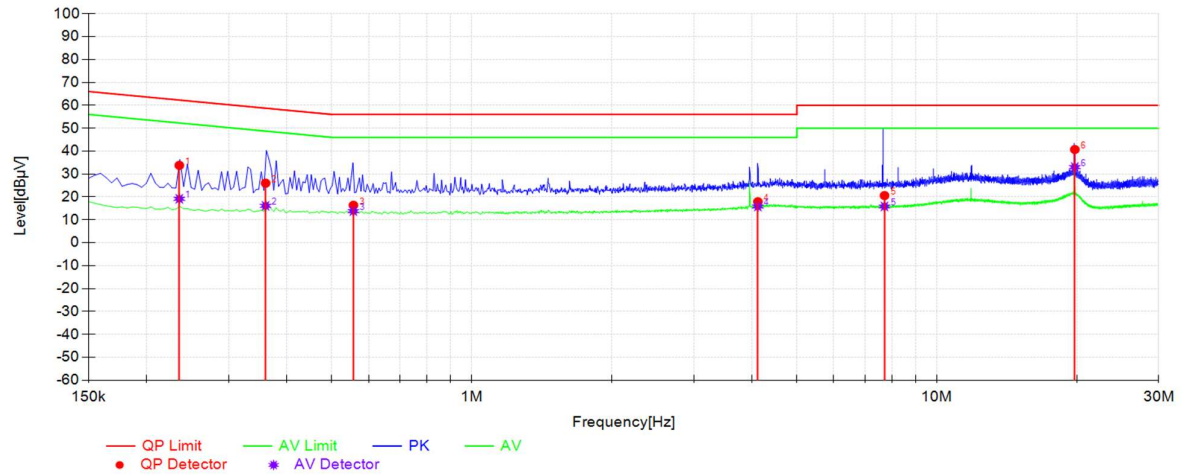
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1212	41.55	1.10	74.00	32.45	150	304	Vertical
2	2004	45.59	6.14	74.00	28.41	150	194	Vertical
3	3942	48.32	-17.22	74.00	25.68	150	247	Vertical
4	4728	44.54	-14.89	74.00	29.46	150	163	Vertical
5	5922	45.19	-12.37	74.00	28.81	150	52	Vertical
6	8805	45.30	-9.48	74.00	28.70	150	295	Vertical

Appendix J: Conducted emission AC power port



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.2711	10.27	22.59	61.08	38.49	14.69	51.08	36.39	L1	PASS
2	1.1195	10.28	14.60	56.00	41.40	12.93	46.00	33.07	L1	PASS
3	6.2176	10.39	16.76	60.00	43.24	15.48	50.00	34.52	L1	PASS
4	6.2794	10.40	16.87	60.00	43.13	15.48	50.00	34.52	L1	PASS
5	7.4252	10.43	17.04	60.00	42.96	15.63	50.00	34.37	L1	PASS
6	19.8504	10.55	40.17	60.00	19.83	31.84	50.00	18.16	L1	PASS



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.2349	10.26	33.79	62.27	28.48	19.18	52.27	33.09	N	PASS
2	0.3601	10.26	26.02	58.73	32.71	16.11	48.73	32.62	N	PASS
3	0.5562	10.28	16.38	56.00	39.62	13.82	46.00	32.18	N	PASS
4	4.1224	10.41	17.92	56.00	38.08	15.82	46.00	30.18	N	PASS
5	7.7168	10.43	20.60	60.00	39.40	15.85	50.00	34.15	N	PASS
6	19.8065	10.65	40.71	60.00	19.29	33.01	50.00	16.99	N	PASS