



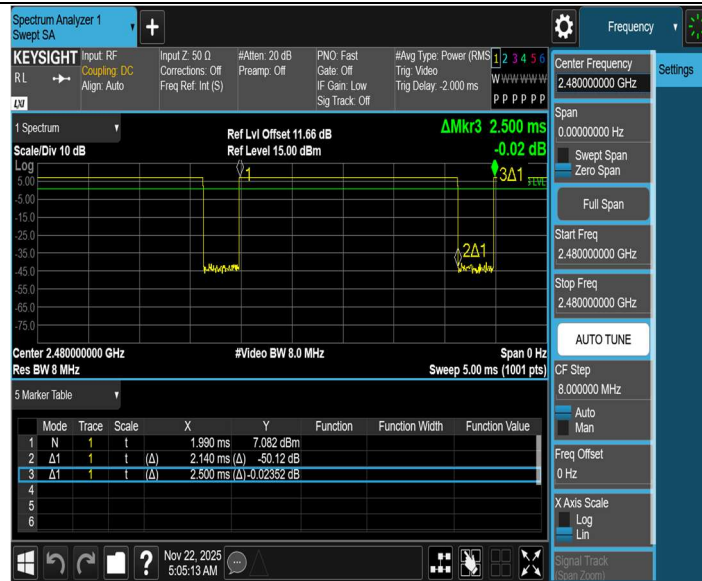
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	2.13	2.50	85.20
		2440	0.42	0.64	65.63
		2480	2.14	2.50	85.60
BLE_2M	Ant1	2402	1.08	1.87	57.75
		2440	1.08	1.87	57.75
		2480	1.08	1.87	57.75

Test Graphs



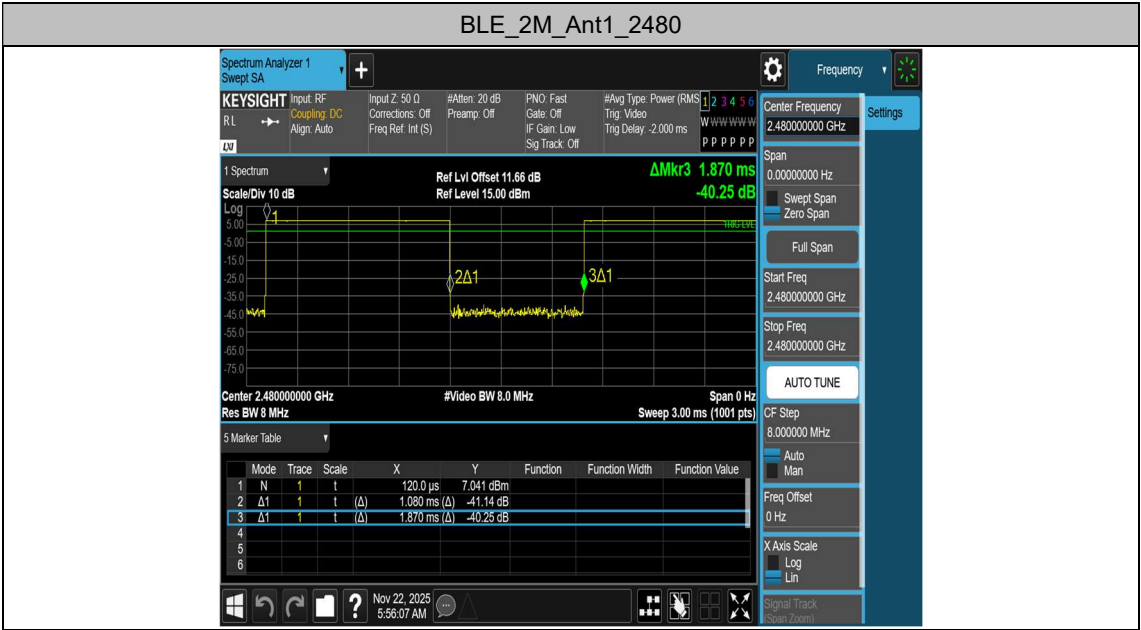


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





Appendix H: Emissions in Restricted Bands

Test Result

Model:	BLE1M-2402
--------	------------

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2310	37.92	41.04	3.12	74.00	32.96	150	349	PK	Vertical	PASS
2	2326.24	39.09	42.41	3.32	74.00	31.59	150	245	PK	Vertical	PASS
3	2343.68	40.14	43.57	3.43	74.00	30.43	150	183	PK	Vertical	PASS
4	2352	39.47	42.97	3.50	74.00	31.03	150	96	PK	Vertical	PASS
5	2373.2	39.59	43.50	3.91	74.00	30.50	150	245	PK	Vertical	PASS
6	2390	37.47	41.85	4.38	74.00	32.15	150	284	PK	Vertical	PASS

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2310	38.17	41.29	3.12	74.00	32.71	150	158	PK	Horizontal	PASS
2	2321.84	39.40	42.73	3.33	74.00	31.27	150	281	PK	Horizontal	PASS
3	2335.84	40.00	43.27	3.27	74.00	30.73	150	93	PK	Horizontal	PASS
4	2356	39.47	42.98	3.51	74.00	31.02	150	93	PK	Horizontal	PASS
5	2368.24	39.96	43.58	3.62	74.00	30.42	150	287	PK	Horizontal	PASS
6	2390	37.78	42.16	4.38	74.00	31.84	150	183	PK	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

Model: BLE1M-2480

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [Db]	Limit [dBμV/m]	Margin [Db]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2483.5	45.41	48.87	3.46	74.00	25.13	150	197	PK	Vertical	PASS
2	2486.5195	46.65	50.16	3.51	74.00	23.84	150	19	PK	Vertical	PASS
3	2490.1165	47.62	51.19	3.57	74.00	22.81	150	253	PK	Vertical	PASS
4	2492.7565	46.59	50.16	3.57	74.00	23.84	150	130	PK	Vertical	PASS
5	2496.238	46.79	50.36	3.57	74.00	23.64	150	212	PK	Vertical	PASS
6	2500	45.33	48.83	3.50	74.00	25.17	150	202	PK	Vertical	PASS

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [Db]	Limit [dBμV/m]	Margin [Db]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2483.5	45.60	49.06	3.46	74.00	24.94	150	37	PK	Horizontal	PASS
2	2485.2325	46.95	50.47	3.52	74.00	23.53	150	275	PK	Horizontal	PASS
3	2489.7535	47.01	50.58	3.57	74.00	23.42	150	30	PK	Horizontal	PASS
4	2493.136	46.93	50.50	3.57	74.00	23.50	150	239	PK	Horizontal	PASS
5	2494.06	47.82	51.41	3.59	74.00	22.59	150	127	PK	Horizontal	PASS
6	2500	45.98	49.48	3.50	74.00	24.52	150	303	PK	Horizontal	PASS

Note (1) Level=Reading+Factor

(2) Margin=Limit-Level

Model: BLE2M-2402

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [Db]	Limit [dBμV/m]	Margin [Db]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2310	38.45	41.57	3.12	74.00	32.43	150	80	PK	Vertical	PASS
2	2334.32	40.65	43.92	3.27	74.00	30.08	150	300	PK	Vertical	PASS
3	2352.56	40.22	43.71	3.49	74.00	30.29	150	34	PK	Vertical	PASS
4	2365.76	40.11	43.77	3.66	74.00	30.23	150	53	PK	Vertical	PASS
5	2378.16	39.07	43.13	4.06	74.00	30.87	150	12	PK	Vertical	PASS
6	2390	38.94	43.32	4.38	74.00	30.68	150	87	PK	Vertical	PASS

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [Db]	Limit [dBμV/m]	Margin [Db]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2310	38.00	41.12	3.12	74.00	32.88	150	66	PK	Horizontal	PASS
2	2323.28	40.17	43.49	3.32	74.00	30.51	150	145	PK	Horizontal	PASS
3	2340.48	39.52	42.86	3.34	74.00	31.14	150	0	PK	Horizontal	PASS
4	2360.56	39.64	43.17	3.53	74.00	30.83	150	356	PK	Horizontal	PASS
5	2367.68	40.13	43.73	3.60	74.00	30.27	150	175	PK	Horizontal	PASS
6	2390	37.85	42.23	4.38	74.00	31.77	150	92	PK	Horizontal	PASS

Note (1) Level=Reading+Factor

(2) Margin=Limit-Level

Model: BLE2M-2402

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2483.5	45.07	48.53	3.46	74.00	25.47	150	88	PK	Vertical	PASS
2	2485.0015	47.47	51.01	3.54	74.00	22.99	150	155	PK	Vertical	PASS
3	2486.7175	47.24	50.76	3.52	74.00	23.24	150	344	PK	Vertical	PASS
4	2490.7765	47.52	51.07	3.55	74.00	22.93	150	258	PK	Vertical	PASS
5	2494.225	47.42	51.00	3.58	74.00	23.00	150	248	PK	Vertical	PASS
6	2500	45.63	49.13	3.50	74.00	24.87	150	193	PK	Vertical	PASS

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2483.5	45.43	48.89	3.46	74.00	25.11	150	106	PK	Horizontal	PASS
2	2485.612	47.51	51.01	3.50	74.00	22.99	150	123	PK	Horizontal	PASS
3	2488.318	46.64	50.13	3.49	74.00	23.87	150	141	PK	Horizontal	PASS
4	2489.737	47.14	50.71	3.57	74.00	23.29	150	65	PK	Horizontal	PASS
5	2492.443	46.36	49.92	3.56	74.00	24.08	150	188	PK	Horizontal	PASS
6	2500	46.40	49.90	3.50	74.00	24.10	150	143	PK	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

Appendix I: Spurious emissions

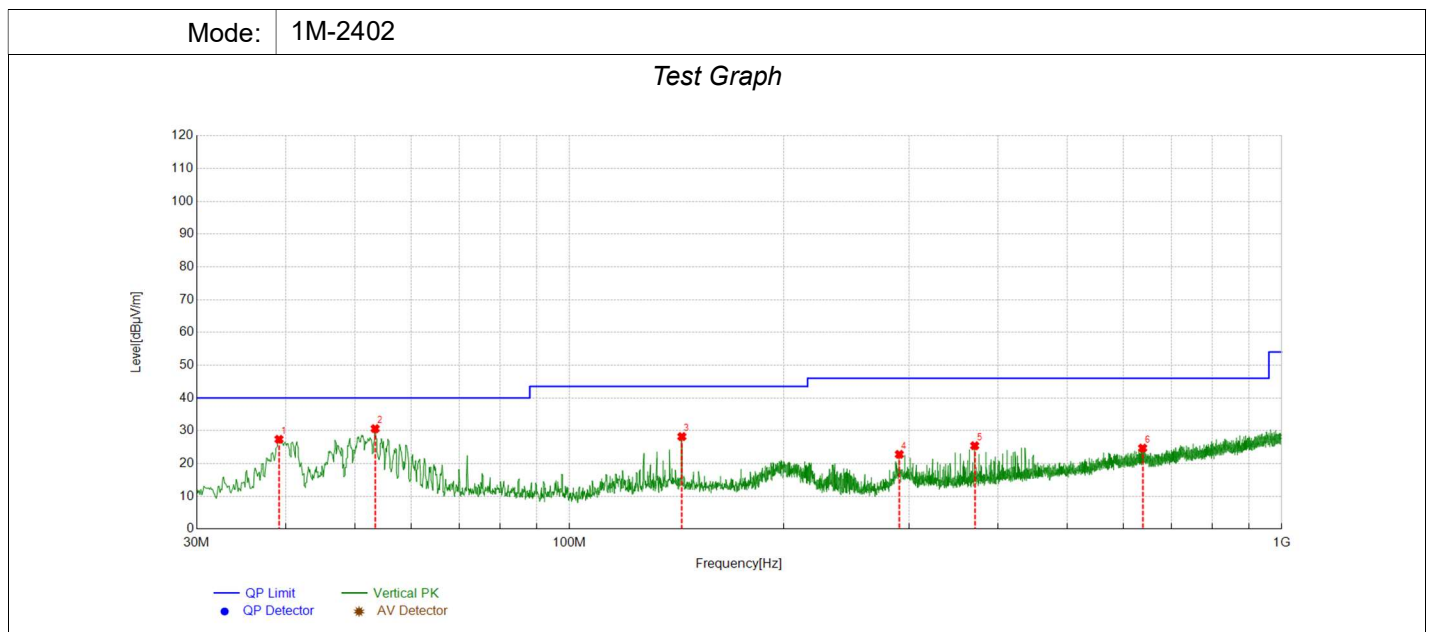
Test Result

Note:

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels. The test data of the worst-case (1M-2402MHz) condition was recorded in this report. The measurement results above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz are reported.

After the pretest, Battery MWBT06S02P-01 was selected as the worst mode and recorded in the report.

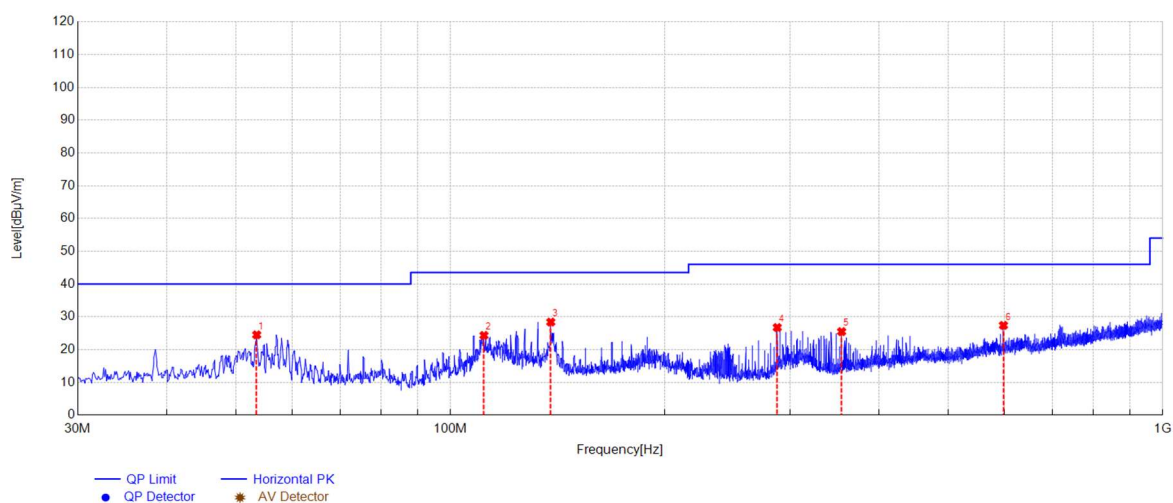


NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	39.118912	43.31	27.39	-15.92	40.00	12.61	150	144	Vertical	PASS
2	53.379338	46.98	30.63	-16.35	40.00	9.37	150	111	Vertical	PASS
3	143.889389	44.49	28.21	-16.28	43.50	15.29	150	91	Vertical	PASS
4	290.568057	38.94	22.79	-16.15	46.00	23.21	150	63	Vertical	PASS
5	370.79508	39.72	25.43	-14.29	46.00	20.57	150	30	Vertical	PASS
6	638.153815	32.93	24.70	-8.23	46.00	21.30	150	21	Vertical	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

Mode: 1M-2402

Test Graph


NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	53.476348	40.87	24.51	-16.36	40.00	15.49	150	206	Horizontal	PASS
2	111.488149	42.93	24.33	-18.60	43.50	19.17	150	106	Horizontal	PASS
3	138.359836	45.32	28.40	-16.92	43.50	15.10	150	195	Horizontal	PASS
4	287.754776	43.06	26.75	-16.31	46.00	19.25	150	84	Horizontal	PASS
5	354.30343	40.34	25.48	-14.86	46.00	20.52	150	195	Horizontal	PASS
6	597.79778	36.43	27.39	-9.04	46.00	18.61	150	123	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

Mode: BLE1M-2402

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1440.4	37.20	36.88	-0.32	74.00	37.12	150	137	PK	Vertical	PASS
2	1764.8	37.86	38.83	0.97	74.00	35.17	150	30	PK	Vertical	PASS
3	4911	55.08	41.94	-13.14	74.00	32.06	150	268	PK	Vertical	PASS
4	7974.75	52.05	44.55	-7.50	74.00	29.45	150	118	PK	Vertical	PASS
5	10530	51.99	48.16	-3.83	74.00	25.84	150	193	PK	Vertical	PASS
6	13135.5	47.86	48.01	0.15	74.00	25.99	150	288	PK	Vertical	PASS

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1176.4	38.58	37.71	-0.87	74.00	36.29	150	332	PK	Horizontal	PASS
2	1625.2	38.03	38.41	0.38	74.00	35.59	150	31	PK	Horizontal	PASS
3	4770.75	55.30	40.95	-14.35	74.00	33.05	150	11	PK	Horizontal	PASS
4	6242.25	53.27	43.07	-10.20	74.00	30.93	150	168	PK	Horizontal	PASS
5	8988	52.61	46.11	-6.50	74.00	27.89	150	297	PK	Horizontal	PASS
6	11285.25	50.31	47.43	-2.88	74.00	26.57	150	84	PK	Horizontal	PASS

Mode: BLE1M-2440

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1338.4	38.10	37.32	-0.78	74.00	36.68	150	224	PK	Vertical	PASS
2	1892.8	36.44	38.10	1.66	74.00	35.90	150	340	PK	Vertical	PASS
3	4913.25	54.55	41.31	-13.24	74.00	32.69	150	278	PK	Vertical	PASS
4	7335.75	53.58	44.39	-9.19	74.00	29.61	150	84	PK	Vertical	PASS
5	7997.25	54.18	46.52	-7.66	74.00	27.48	150	66	PK	Vertical	PASS
6	11527.5	50.15	47.85	-2.30	74.00	26.15	150	134	PK	Vertical	PASS

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1475.6	37.30	37.17	-0.13	74.00	36.83	150	294	PK	Horizontal	PASS
2	1822.8	36.61	38.06	1.45	74.00	35.94	150	276	PK	Horizontal	PASS
3	5076.75	55.67	42.60	-13.07	74.00	31.40	150	188	PK	Horizontal	PASS
4	7313.25	53.35	43.87	-9.48	74.00	30.13	150	282	PK	Horizontal	PASS
5	8760.75	52.29	45.57	-6.72	74.00	28.43	150	94	PK	Horizontal	PASS
6	11689.5	50.39	48.19	-2.20	74.00	25.81	150	288	PK	Horizontal	PASS

Mode: BLE1M-2480

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1328	37.73	36.91	-0.82	74.00	37.09	150	193	PK	Vertical	PASS
2	1890.4	36.79	38.41	1.62	74.00	35.59	150	243	PK	Vertical	PASS
3	5160.75	56.06	42.49	-13.57	74.00	31.51	150	202	PK	Vertical	PASS
4	6432.75	54.76	44.18	-10.58	74.00	29.82	150	4	PK	Vertical	PASS
5	8376.75	53.09	45.84	-7.25	74.00	28.16	150	281	PK	Vertical	PASS
6	10521.75	51.13	47.43	-3.70	74.00	26.57	150	93	PK	Vertical	PASS

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1166.8	39.09	38.09	-1.00	74.00	35.91	150	152	PK	Horizontal	PASS
2	2037.2	36.65	38.79	2.14	74.00	35.21	150	88	PK	Horizontal	PASS
3	3927	57.17	39.15	-18.02	74.00	34.85	150	216	PK	Horizontal	PASS
4	7131.75	53.45	43.89	-9.56	74.00	30.11	150	109	PK	Horizontal	PASS
5	9396	52.31	47.07	-5.24	74.00	26.93	150	89	PK	Horizontal	PASS
6	12080.25	51.96	50.11	-1.85	74.00	23.89	150	238	PK	Horizontal	PASS

Mode: BLE2M-2402

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1361.6	38.24	37.50	-0.74	74.00	36.50	150	190	PK	Vertical	PASS
2	1777.2	37.09	38.13	1.04	74.00	35.87	150	198	PK	Vertical	PASS
3	4503.75	55.69	39.84	-15.85	74.00	34.16	150	55	PK	Vertical	PASS
4	6038.25	54.79	43.21	-11.58	74.00	30.79	150	137	PK	Vertical	PASS
5	9562.5	52.38	47.59	-4.79	74.00	26.41	150	17	PK	Vertical	PASS
6	11180.25	50.24	47.54	-2.70	74.00	26.46	150	132	PK	Vertical	PASS

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1305.6	37.73	37.04	-0.69	74.00	36.96	150	215	PK	Horizontal	PASS
2	1744	37.03	37.87	0.84	74.00	36.13	150	265	PK	Horizontal	PASS
3	4540.5	56.54	40.46	-16.08	74.00	33.54	150	180	PK	Horizontal	PASS
4	6790.5	53.65	43.80	-9.85	74.00	30.20	150	32	PK	Horizontal	PASS
5	9717.75	51.84	46.88	-4.96	74.00	27.12	150	32	PK	Horizontal	PASS
6	11150.25	50.12	47.35	-2.77	74.00	26.65	150	242	PK	Horizontal	PASS

Mode: BLE2M-2440

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1272.4	38.22	37.44	-0.78	74.00	36.56	150	18	PK	Vertical	PASS
2	1512	37.96	37.96	0.00	74.00	36.04	150	287	PK	Vertical	PASS
3	4506	56.00	40.19	-15.81	74.00	33.81	150	47	PK	Vertical	PASS
4	5035.5	55.86	42.29	-13.57	74.00	31.71	150	192	PK	Vertical	PASS
5	7101	54.15	44.43	-9.72	74.00	29.57	150	124	PK	Vertical	PASS
6	11058	50.18	47.28	-2.90	74.00	26.72	150	257	PK	Vertical	PASS

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1328.8	37.57	36.74	-0.83	74.00	37.26	150	257	PK	Horizontal	PASS
2	1697.6	37.58	38.19	0.61	74.00	35.81	150	204	PK	Horizontal	PASS
3	4972.5	56.27	42.79	-13.48	74.00	31.21	150	41	PK	Horizontal	PASS
4	6457.5	53.65	43.59	-10.06	74.00	30.41	150	296	PK	Horizontal	PASS
5	8283.75	53.12	45.26	-7.86	74.00	28.74	150	328	PK	Horizontal	PASS
6	11199.75	50.72	47.79	-2.93	74.00	26.21	150	240	PK	Horizontal	PASS

Mode: BLE2M-2480

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1351.2	38.05	37.40	-0.65	74.00	36.60	150	245	PK	Vertical	PASS
2	1670.8	37.62	38.04	0.42	74.00	35.96	150	110	PK	Vertical	PASS
3	5134.5	55.17	41.32	-13.85	74.00	32.68	150	100	PK	Vertical	PASS
4	6911.25	53.72	43.28	-10.44	74.00	30.72	150	180	PK	Vertical	PASS
5	8376	52.91	45.66	-7.25	74.00	28.34	150	132	PK	Vertical	PASS
6	11073.75	50.24	47.21	-3.03	74.00	26.79	150	307	PK	Vertical	PASS

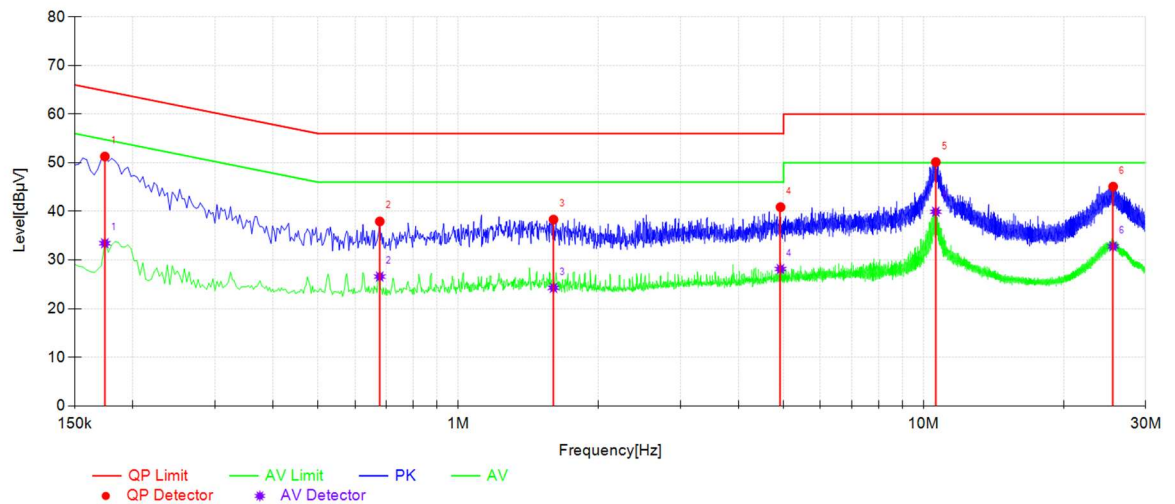
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1225.6	37.68	36.73	-0.95	74.00	37.27	150	291	PK	Horizontal	PASS
2	1936	37.59	39.25	1.66	74.00	34.75	150	87	PK	Horizontal	PASS
3	4284	55.58	39.37	-16.21	74.00	34.63	150	298	PK	Horizontal	PASS
4	6486.75	53.74	43.78	-9.96	74.00	30.22	150	360	PK	Horizontal	PASS
5	8354.25	52.69	45.52	-7.17	74.00	28.48	150	281	PK	Horizontal	PASS
6	11829	49.58	47.93	-1.65	74.00	26.07	150	131	PK	Horizontal	PASS

Appendix J: Conducted emission AC power port

Test Result

After the pretest, Battery MWBT06S02P-01 was selected as the worst mode and recorded in the report.

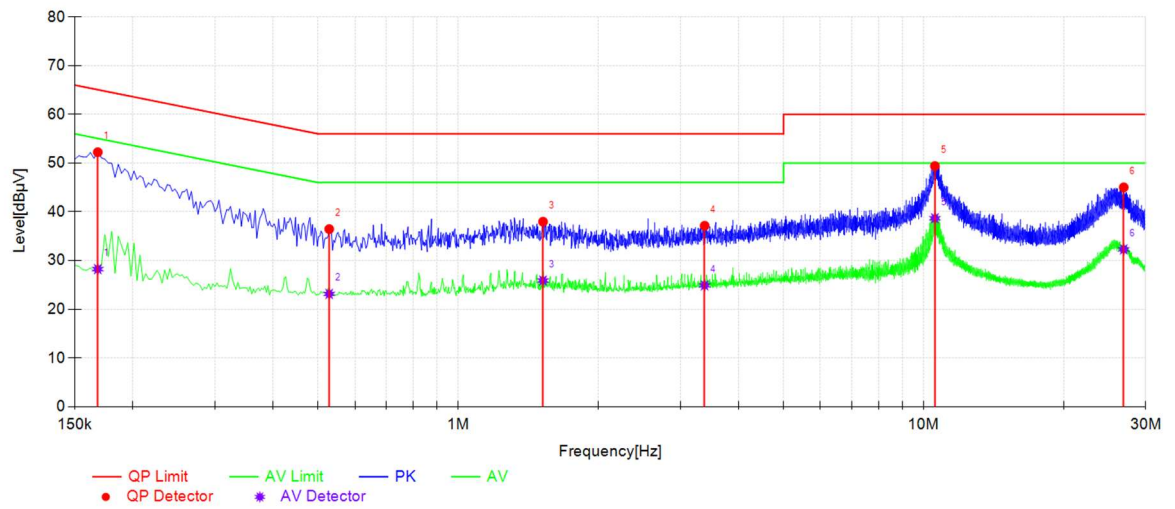
Mode:	TS-A081-2703002
-------	-----------------



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	0.174	10.30	51.29	64.77	13.48	33.45	54.77	21.32	L1	PASS
2	0.678	10.26	37.94	56.00	18.06	26.60	46.00	19.40	L1	PASS
3	1.602	10.31	38.32	56.00	17.68	24.28	46.00	21.72	L1	PASS
4	4.926	10.34	40.88	56.00	15.12	28.15	46.00	17.85	L1	PASS
5	10.624	10.45	50.14	60.00	9.86	39.93	50.00	10.07	L1	PASS
6	25.54	10.76	45.10	60.00	14.90	32.81	50.00	17.19	L1	PASS

Mode:

TS-A081-2703002

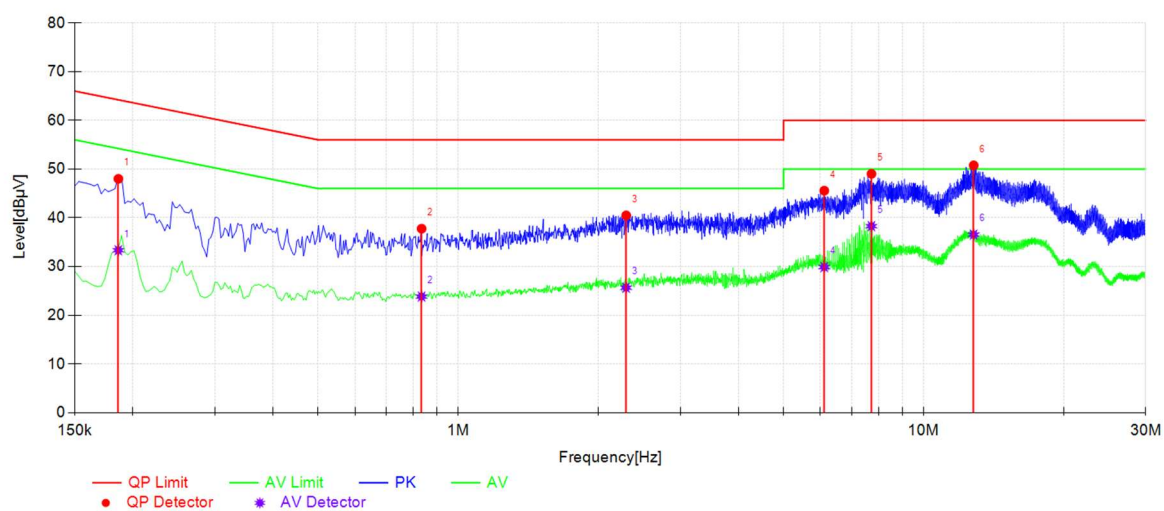


Final Data List

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	0.168	10.35	52.24	65.06	12.82	28.25	55.06	26.81	N	PASS
2	0.528	10.25	36.46	56.00	19.54	23.16	46.00	22.84	N	PASS
3	1.521	10.32	37.98	56.00	18.02	25.90	46.00	20.10	N	PASS
4	3.384	10.39	37.15	56.00	18.85	24.91	46.00	21.09	N	PASS
5	10.576	10.47	49.40	60.00	10.60	38.68	50.00	11.32	N	PASS
6	26.92	10.78	45.03	60.00	14.97	32.29	50.00	17.71	N	PASS

Mode:

ADS-81EJ-27-5

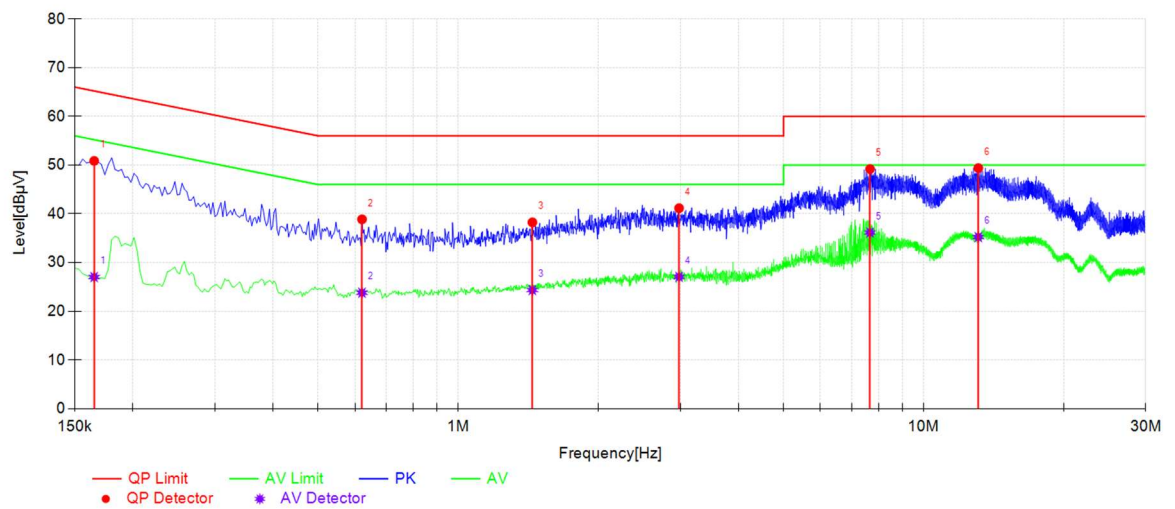


Final Data List

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	0.186	10.32	48.00	64.21	16.21	33.34	54.21	20.87	L1	PASS
2	0.834	10.30	37.78	56.00	18.22	23.84	46.00	22.16	L1	PASS
3	2.295	10.28	40.50	56.00	15.50	25.66	46.00	20.34	L1	PASS
4	6.117	10.38	45.58	60.00	14.42	29.89	50.00	20.11	L1	PASS
5	7.725	10.42	49.03	60.00	10.97	38.29	50.00	11.71	L1	PASS
6	12.811	10.51	50.77	60.00	9.23	36.55	50.00	13.45	L1	PASS

Mode:

ADS-81EJ-27-5



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	0.165	10.35	50.87	65.21	14.34	27.03	55.21	28.18	N	PASS
2	0.621	10.26	38.88	56.00	17.12	23.81	46.00	22.19	N	PASS
3	1.443	10.31	38.26	56.00	17.74	24.36	46.00	21.64	N	PASS
4	2.982	10.39	41.16	56.00	14.84	27.07	46.00	18.93	N	PASS
5	7.671	10.42	49.20	60.00	10.80	36.16	50.00	13.84	N	PASS
6	13.111	10.58	49.39	60.00	10.61	35.23	50.00	14.77	N	PASS