

Appendix for Bluetooth BLE Mode

Product Name: Stairmill

Model No: LT04TB, LT04EB, LT02EB, LT02TB

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.676	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.700	2439.652	2440.352	0.5	PASS
BLE_1M	Ant1	2480	0.716	2479.648	2480.364	0.5	PASS
BLE_2M	Ant1	2402	1.208	2401.376	2402.584	0.5	PASS
BLE_2M	Ant1	2440	1.220	2439.360	2440.580	0.5	PASS
BLE_2M	Ant1	2480	1.220	2479.380	2480.600	0.5	PASS

Test Graphs





Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0372	2401.4904	2402.5276	---	---
BLE_1M	Ant1	2440	1.0473	2439.4847	2440.5320	---	---
BLE_1M	Ant1	2480	1.0652	2479.4786	2480.5438	---	---
BLE_2M	Ant1	2402	2.0702	2400.9742	2403.0444	---	---
BLE_2M	Ant1	2440	2.0916	2438.9810	2441.0726	---	---
BLE_2M	Ant1	2480	2.1742	2478.9280	2481.1022	---	---

Test Graphs



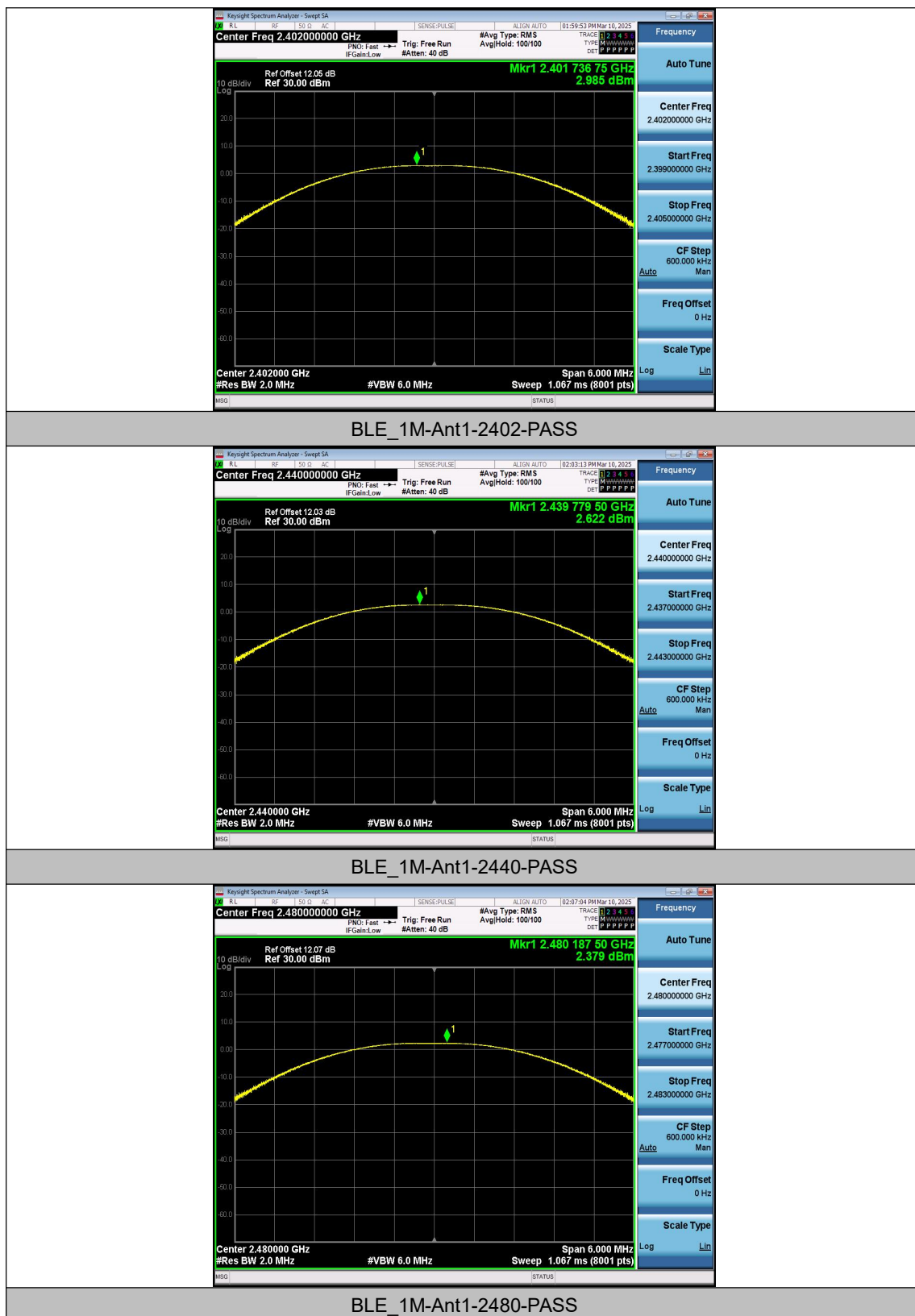


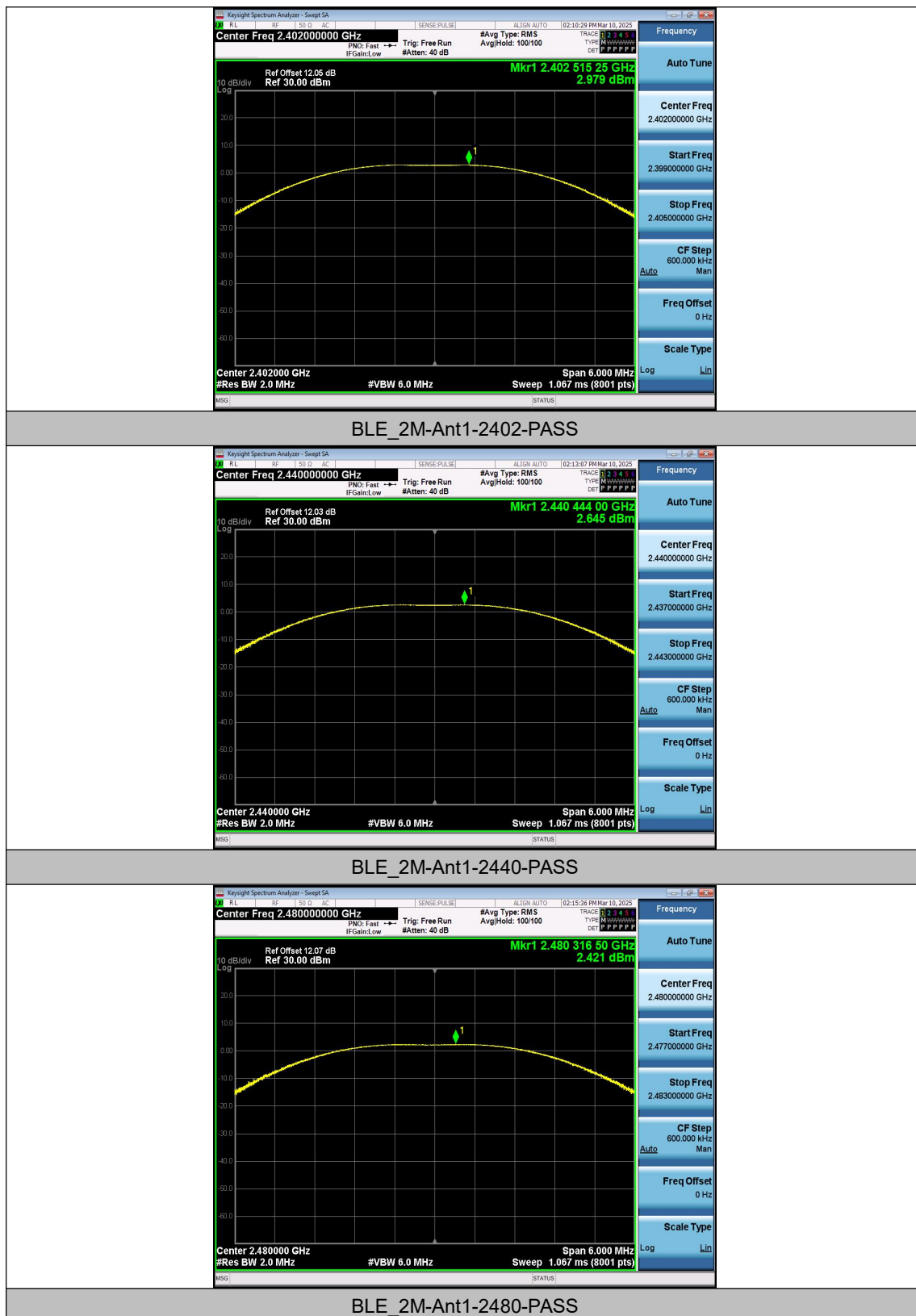
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.99	≤30	PASS
BLE_1M	Ant1	2440	2.62	≤30	PASS
BLE_1M	Ant1	2480	2.38	≤30	PASS
BLE_2M	Ant1	2402	2.98	≤30	PASS
BLE_2M	Ant1	2440	2.65	≤30	PASS
BLE_2M	Ant1	2480	2.42	≤30	PASS

Test Graphs Peak



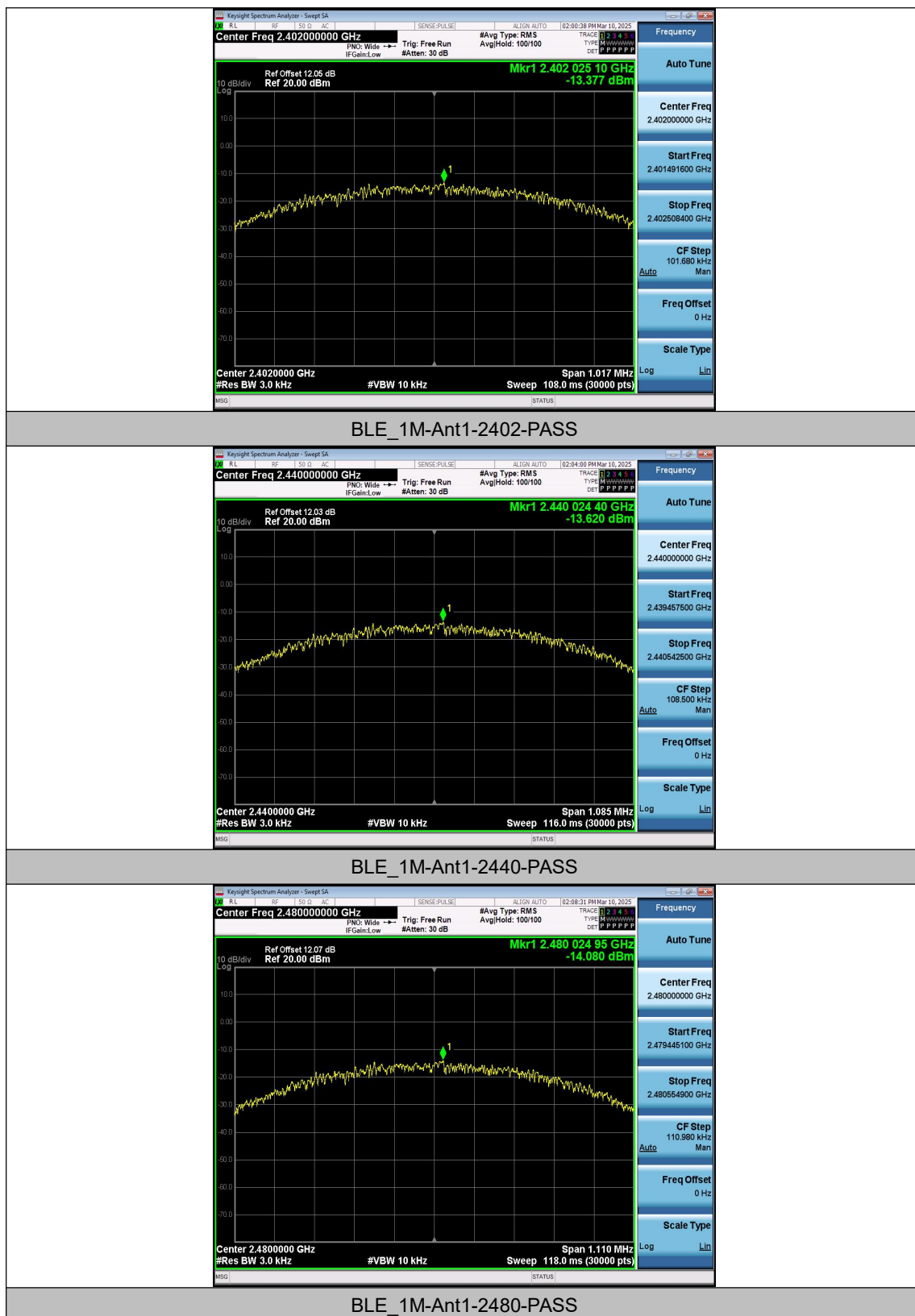


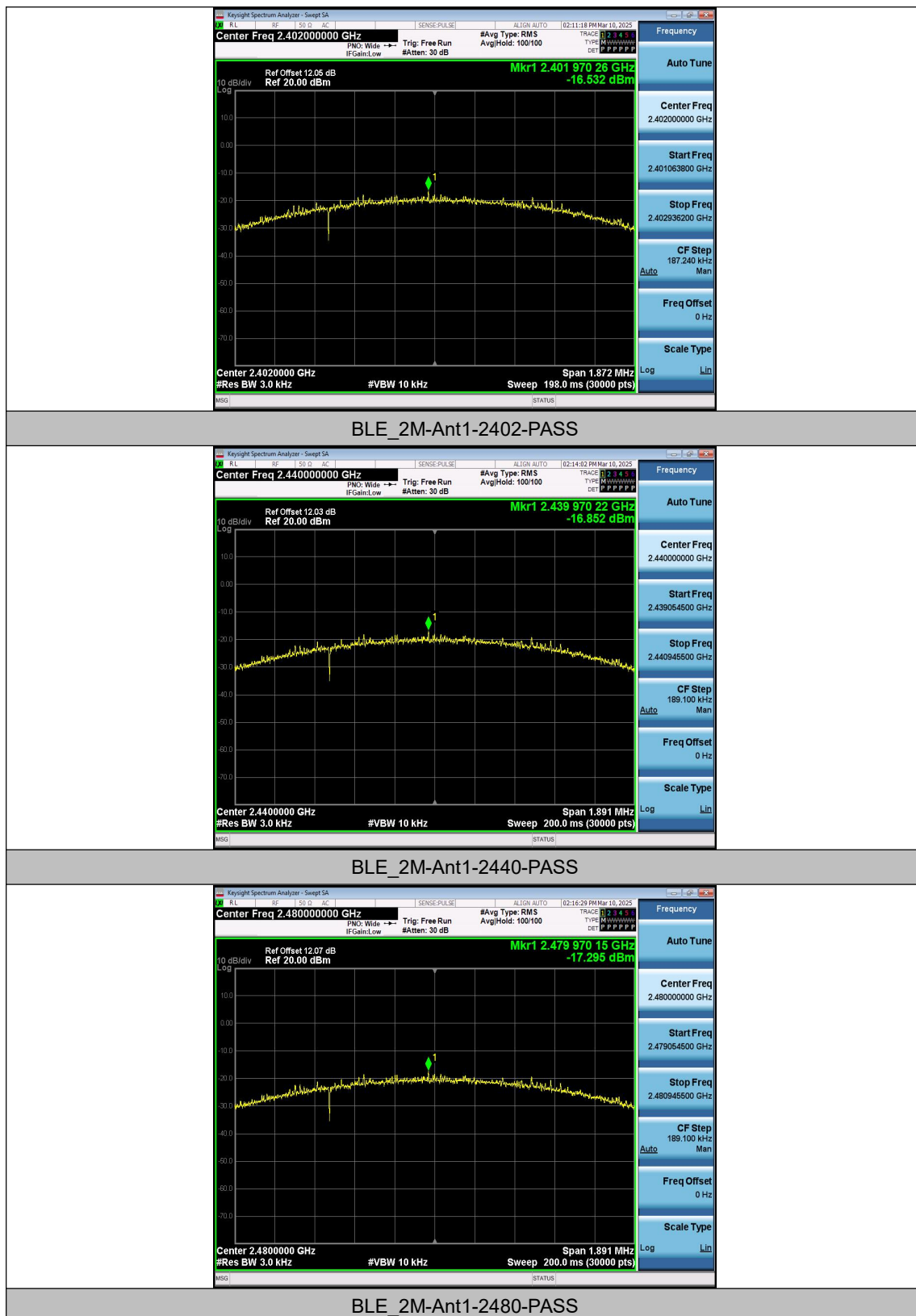
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.38	≤8.00	PASS
BLE_1M	Ant1	2440	-13.62	≤8.00	PASS
BLE_1M	Ant1	2480	-14.08	≤8.00	PASS
BLE_2M	Ant1	2402	-16.53	≤8.00	PASS
BLE_2M	Ant1	2440	-16.85	≤8.00	PASS
BLE_2M	Ant1	2480	-17.30	≤8.00	PASS

Test Graphs



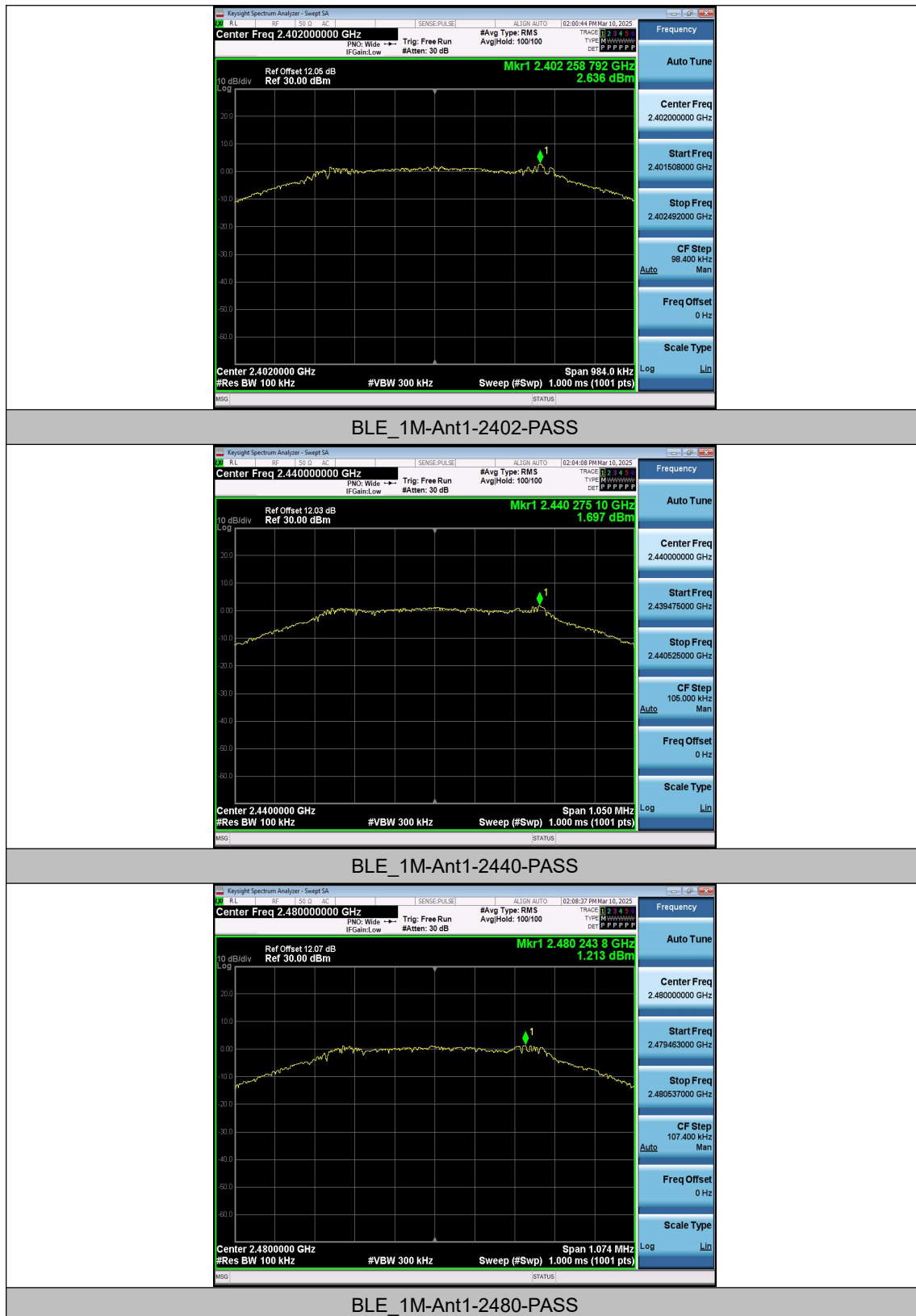


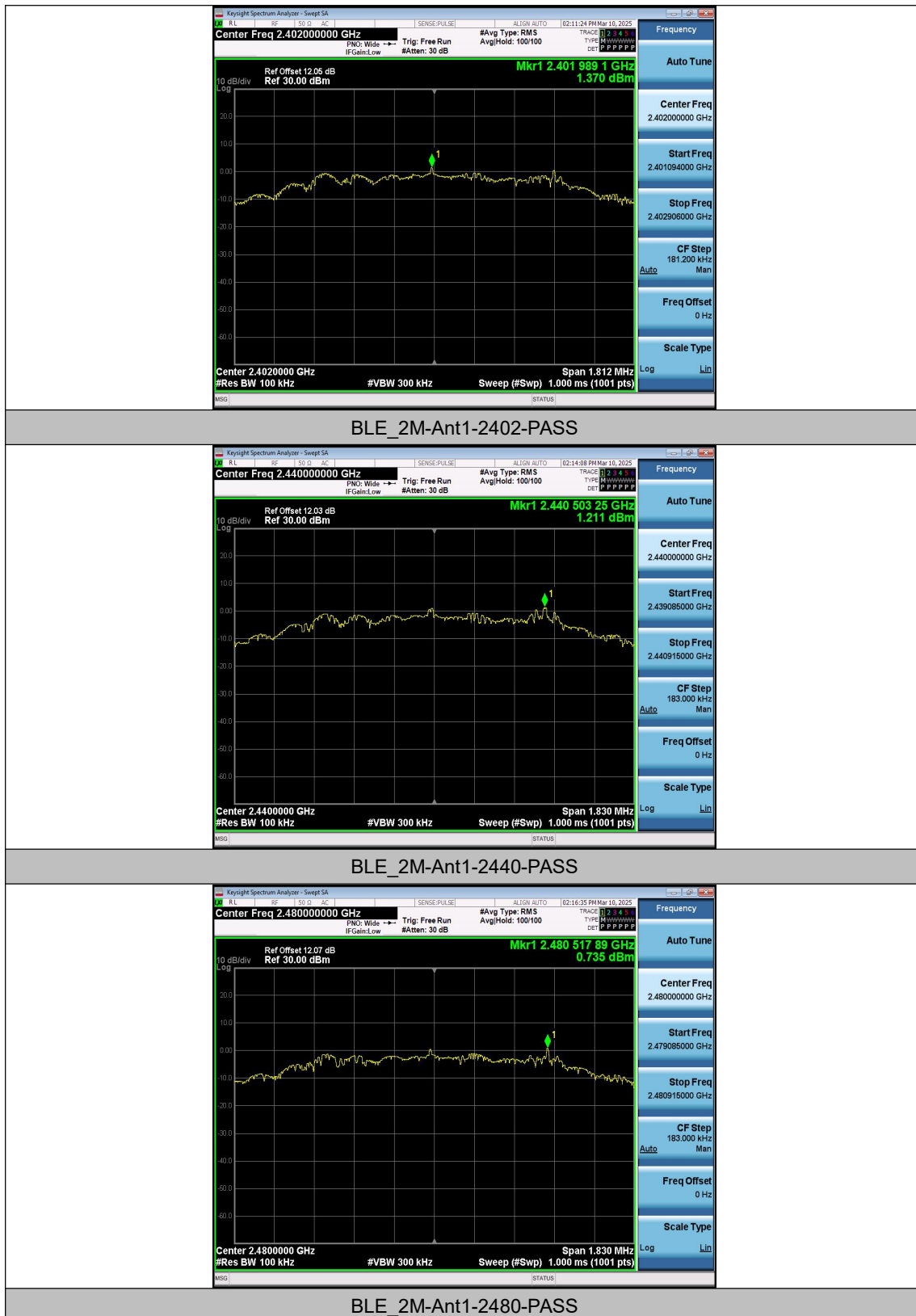
Appendix E: Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.26	2.64
BLE_1M	Ant1	2440	2440.28	1.70
BLE_1M	Ant1	2480	2480.24	1.21
BLE_2M	Ant1	2402	2401.99	1.37
BLE_2M	Ant1	2440	2440.50	1.21
BLE_2M	Ant1	2480	2480.52	0.74

Test Graphs



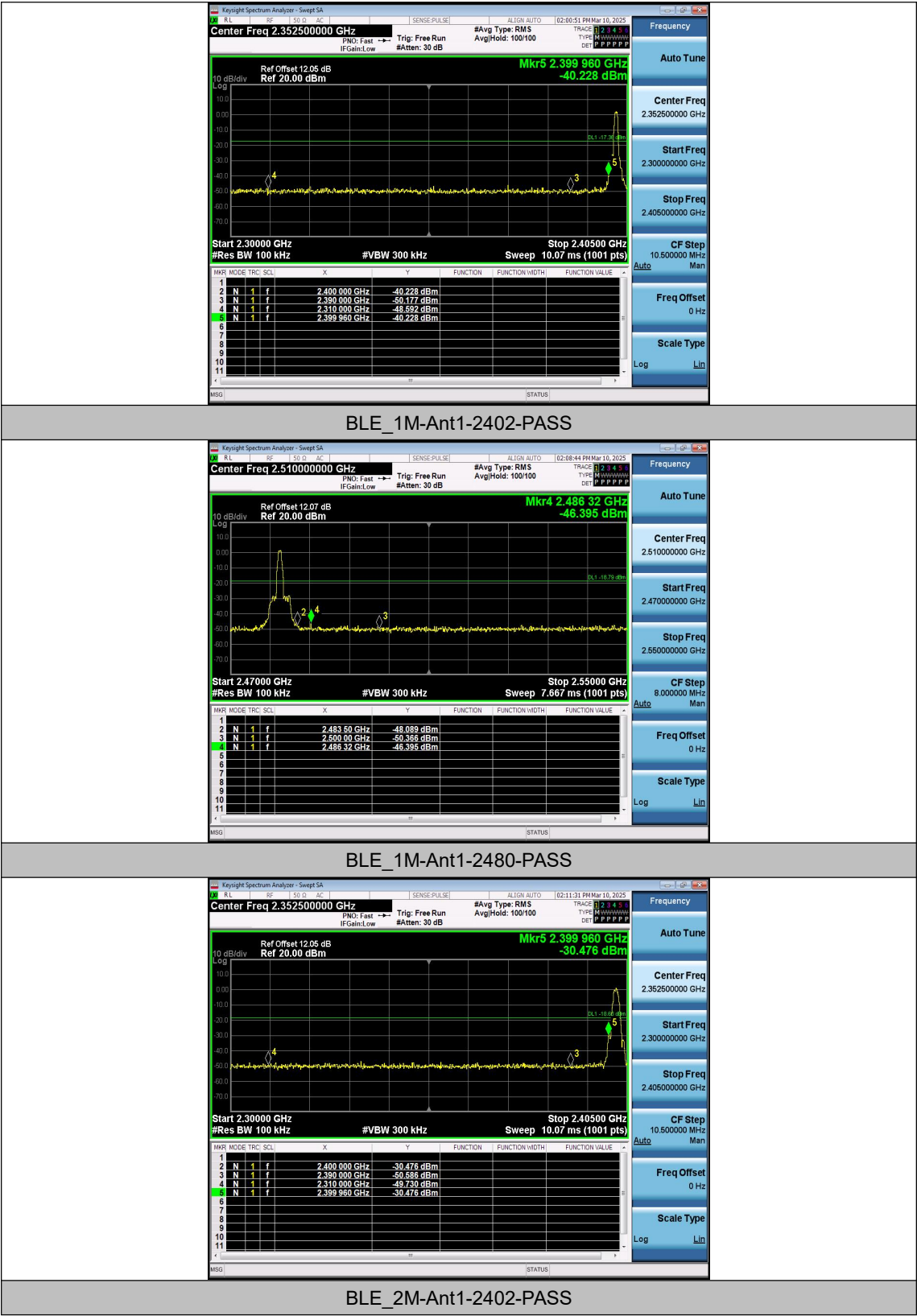


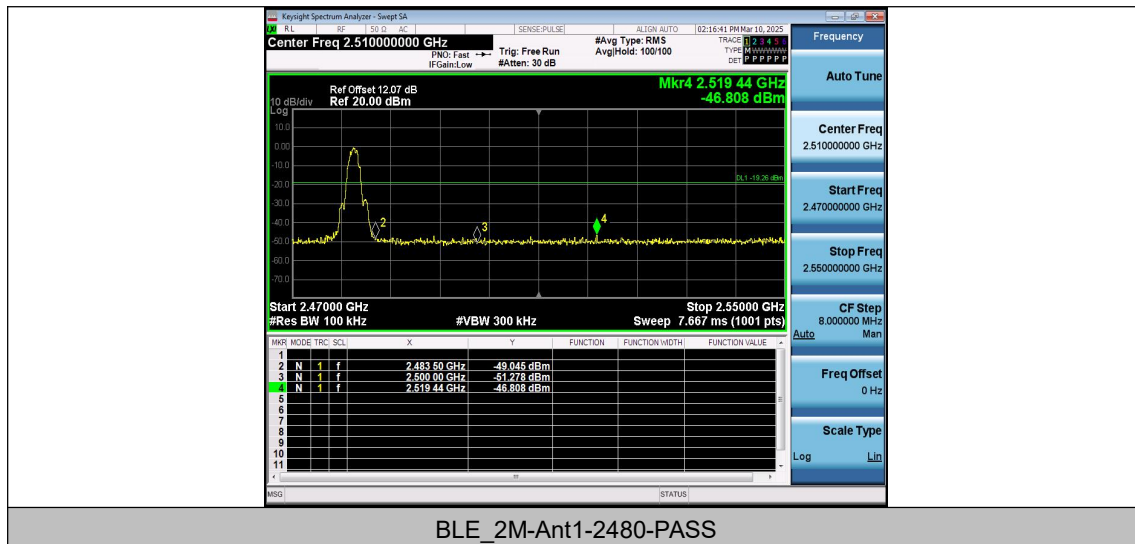
Appendix F: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.64	-40.23	≤-17.36	PASS
BLE_1M	Ant1	High	2480	1.21	-46.4	≤-18.79	PASS
BLE_2M	Ant1	Low	2402	1.37	-30.48	≤-18.63	PASS
BLE_2M	Ant1	High	2480	0.74	-46.81	≤-19.26	PASS

Test Graphs





Appendix G: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	2.64	-59.54	≤-17.36	PASS
BLE_1M	Ant1	2402	1000~2650 0	2.64	-43.57	≤-17.36	PASS
BLE_1M	Ant1	2440	30~1000	1.70	-59.2	≤-18.3	PASS
BLE_1M	Ant1	2440	1000~2650 0	1.70	-43.95	≤-18.3	PASS
BLE_1M	Ant1	2480	30~1000	1.21	-58.3	≤-18.79	PASS
BLE_1M	Ant1	2480	1000~2650 0	1.21	-44.06	≤-18.79	PASS
BLE_2M	Ant1	2402	30~1000	1.37	-59.3	≤-18.63	PASS
BLE_2M	Ant1	2402	1000~2650 0	1.37	-44.16	≤-18.63	PASS
BLE_2M	Ant1	2440	30~1000	1.21	-58.82	≤-18.79	PASS
BLE_2M	Ant1	2440	1000~2650 0	1.21	-44.39	≤-18.79	PASS
BLE_2M	Ant1	2480	30~1000	0.74	-58.54	≤-19.26	PASS
BLE_2M	Ant1	2480	1000~2650 0	0.74	-43.57	≤-19.26	PASS

Test Graphs

