

Appendix: Bluetooth LE

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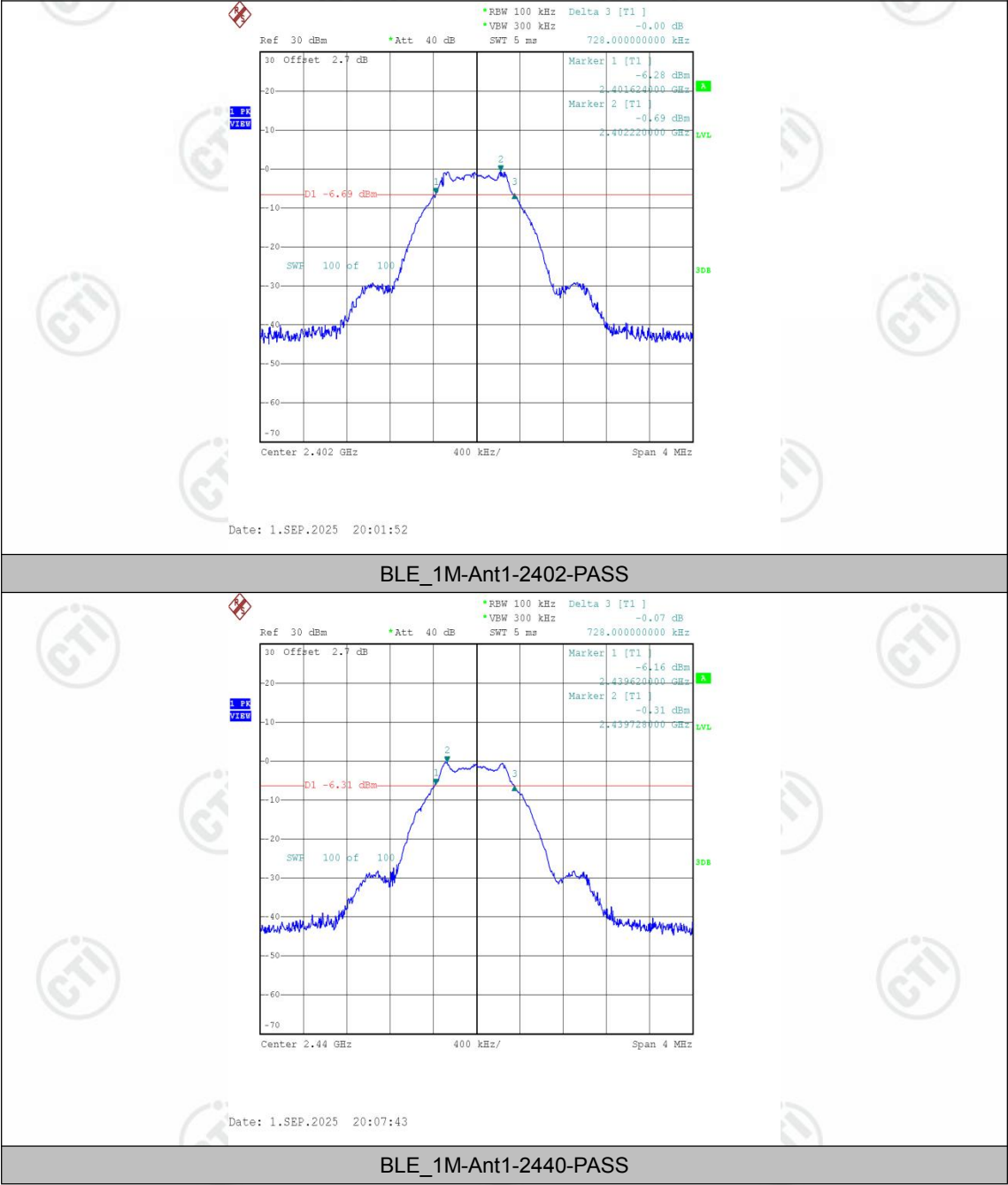
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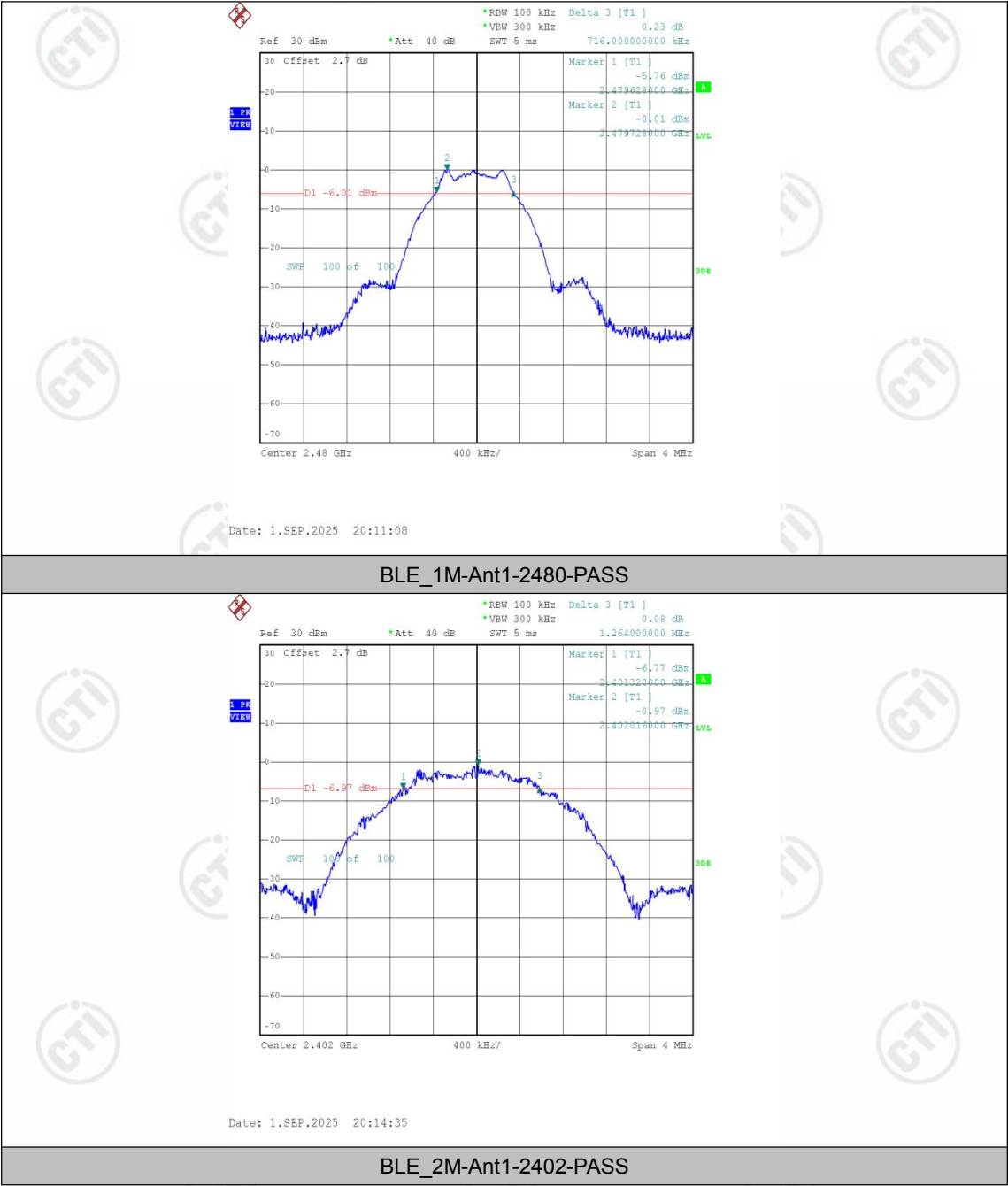
Appendix A: DTS Bandwidth

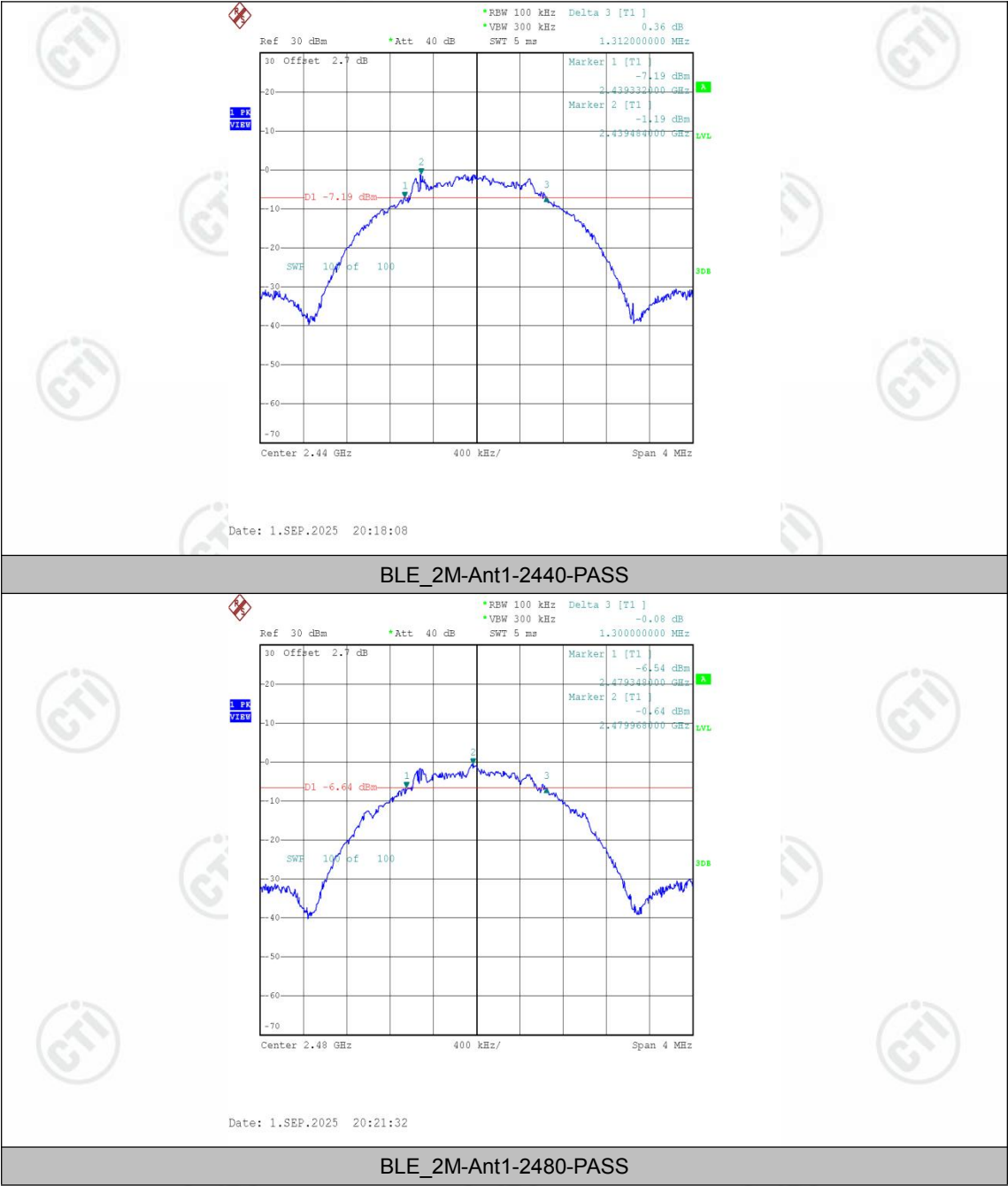
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.73	2401.62	2402.35	0.5	PASS
BLE_1M	Ant1	2440	0.73	2439.62	2440.35	0.5	PASS
BLE_1M	Ant1	2480	0.72	2479.63	2480.34	0.5	PASS
BLE_2M	Ant1	2402	1.26	2401.32	2402.58	0.5	PASS
BLE_2M	Ant1	2440	1.31	2439.33	2440.64	0.5	PASS
BLE_2M	Ant1	2480	1.30	2479.35	2480.65	0.5	PASS

Test Graphs





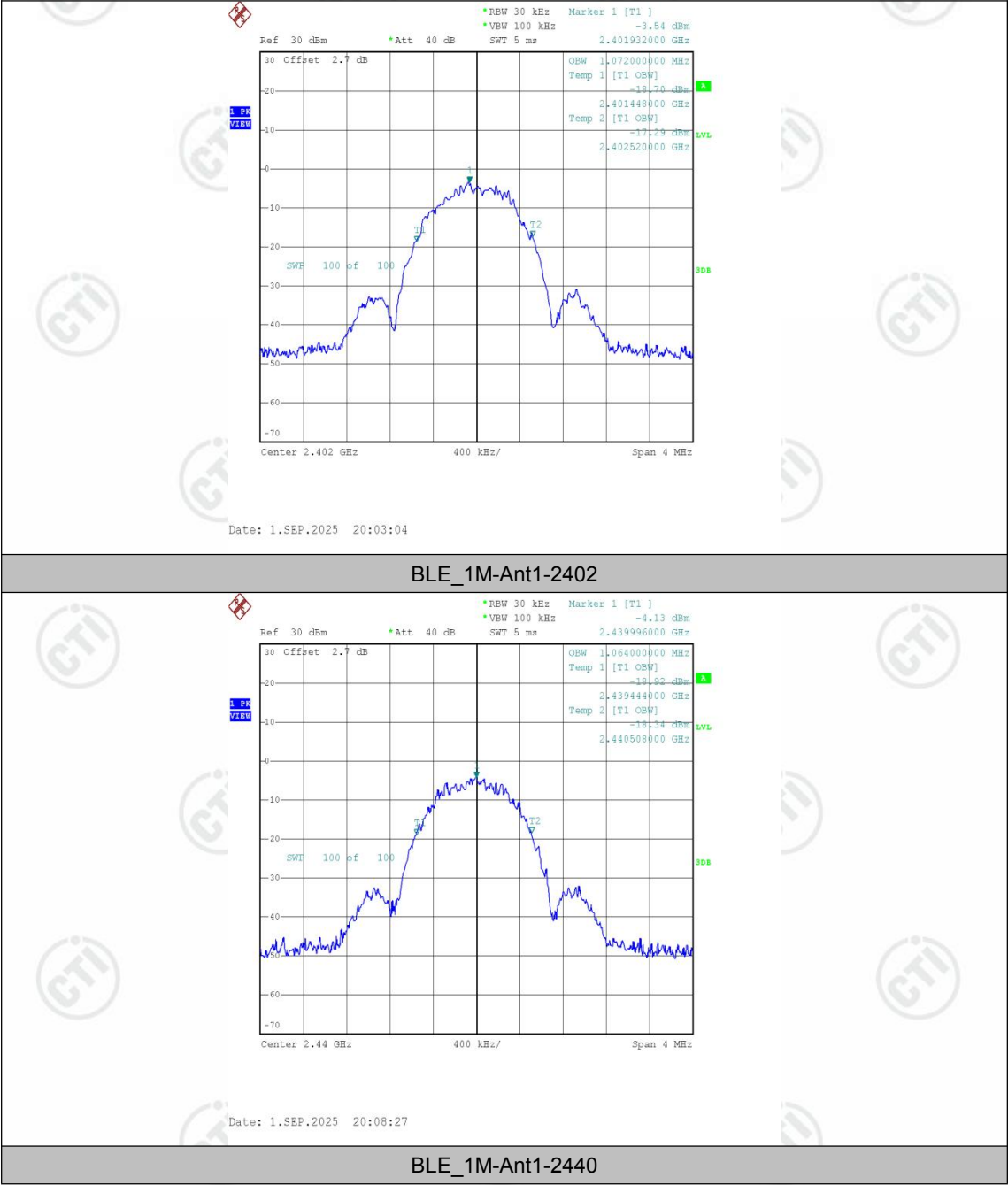


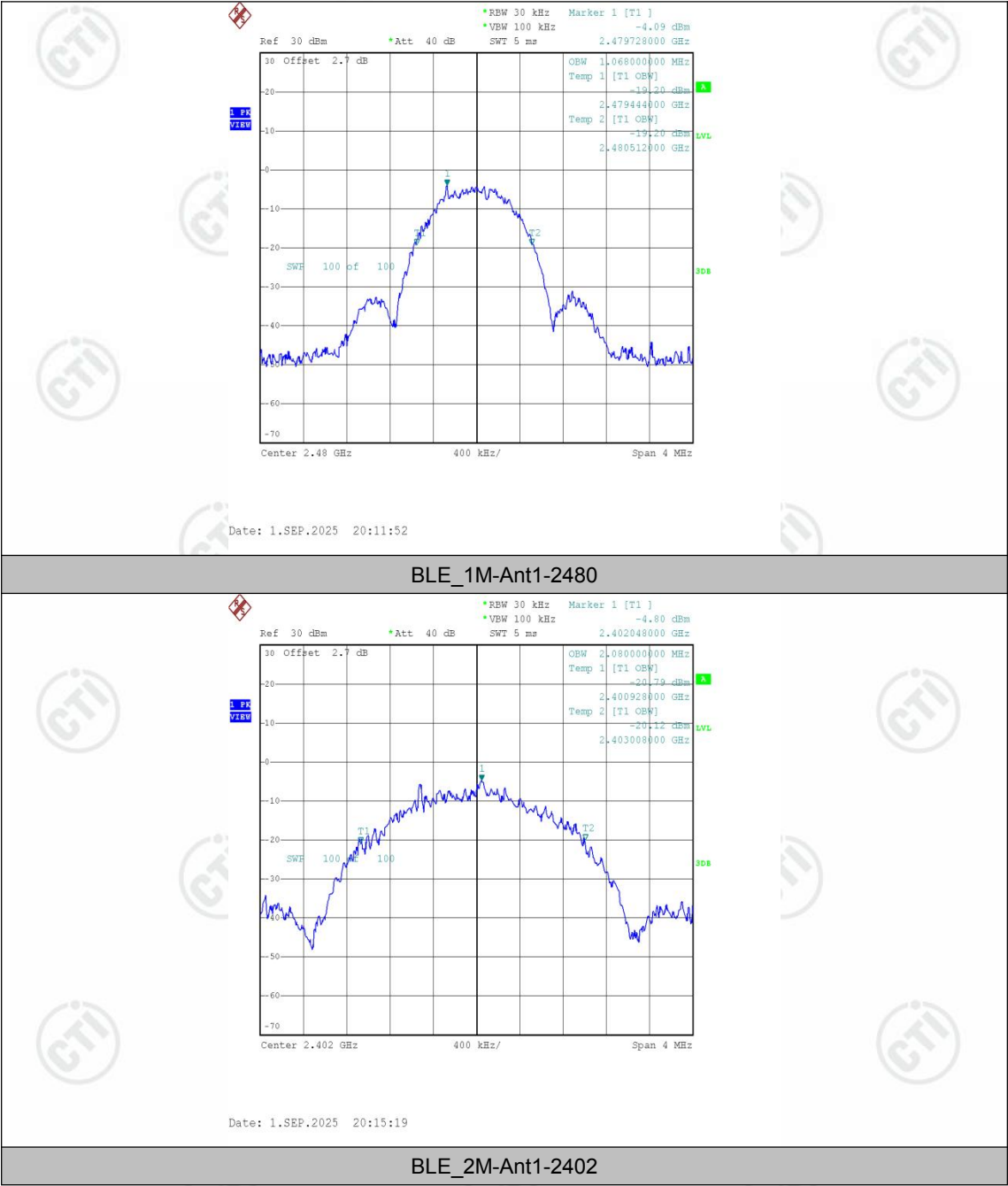
Appendix B: Occupied Channel Bandwidth

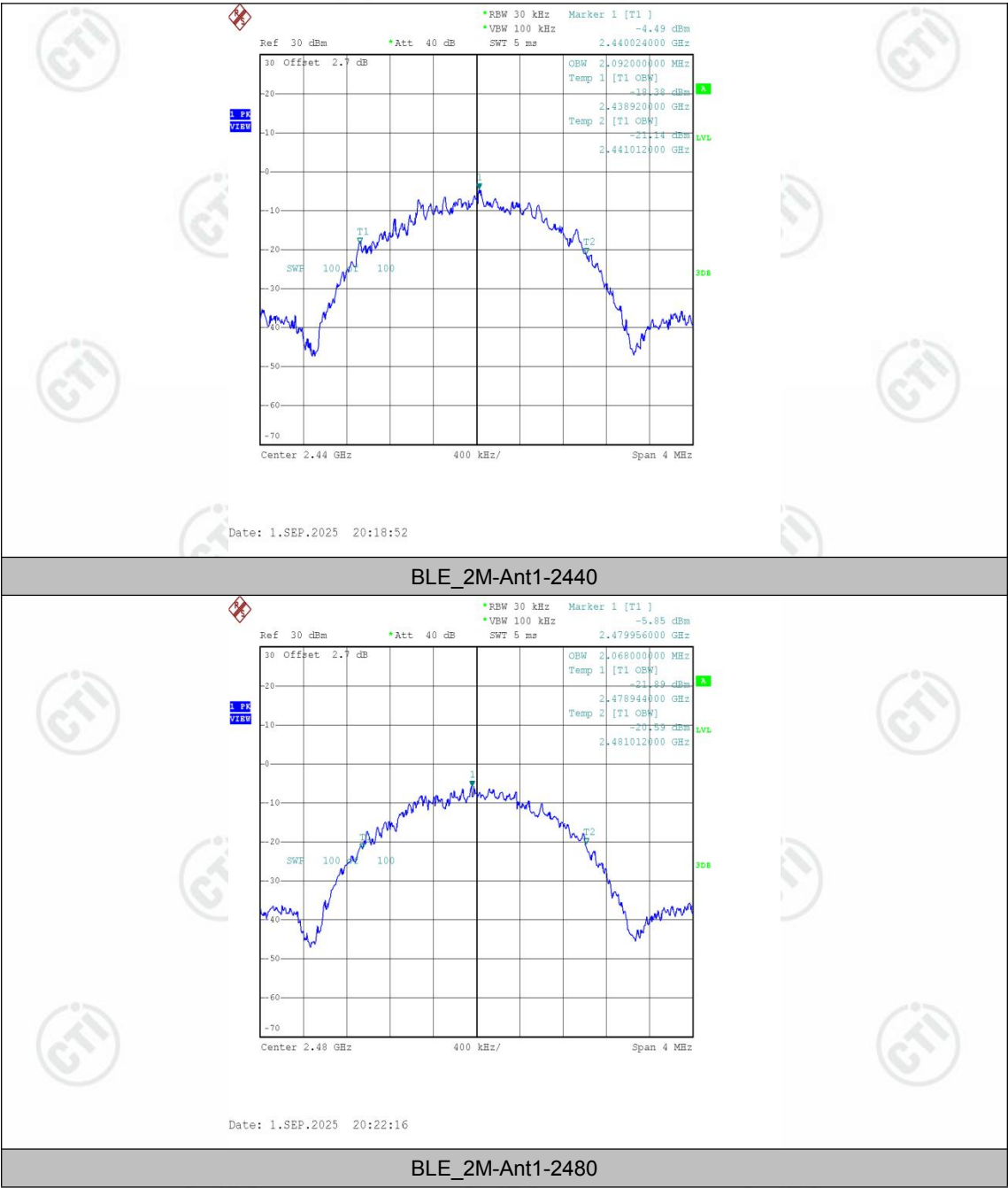
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0720	2401.448	2402.520	---	---
BLE_1M	Ant1	2440	1.0640	2439.444	2440.508	---	---
BLE_1M	Ant1	2480	1.0680	2479.444	2480.512	---	---
BLE_2M	Ant1	2402	2.0800	2400.928	2403.008	---	---
BLE_2M	Ant1	2440	2.0920	2438.920	2441.012	---	---
BLE_2M	Ant1	2480	2.0680	2478.944	2481.012	---	---

Test Graphs



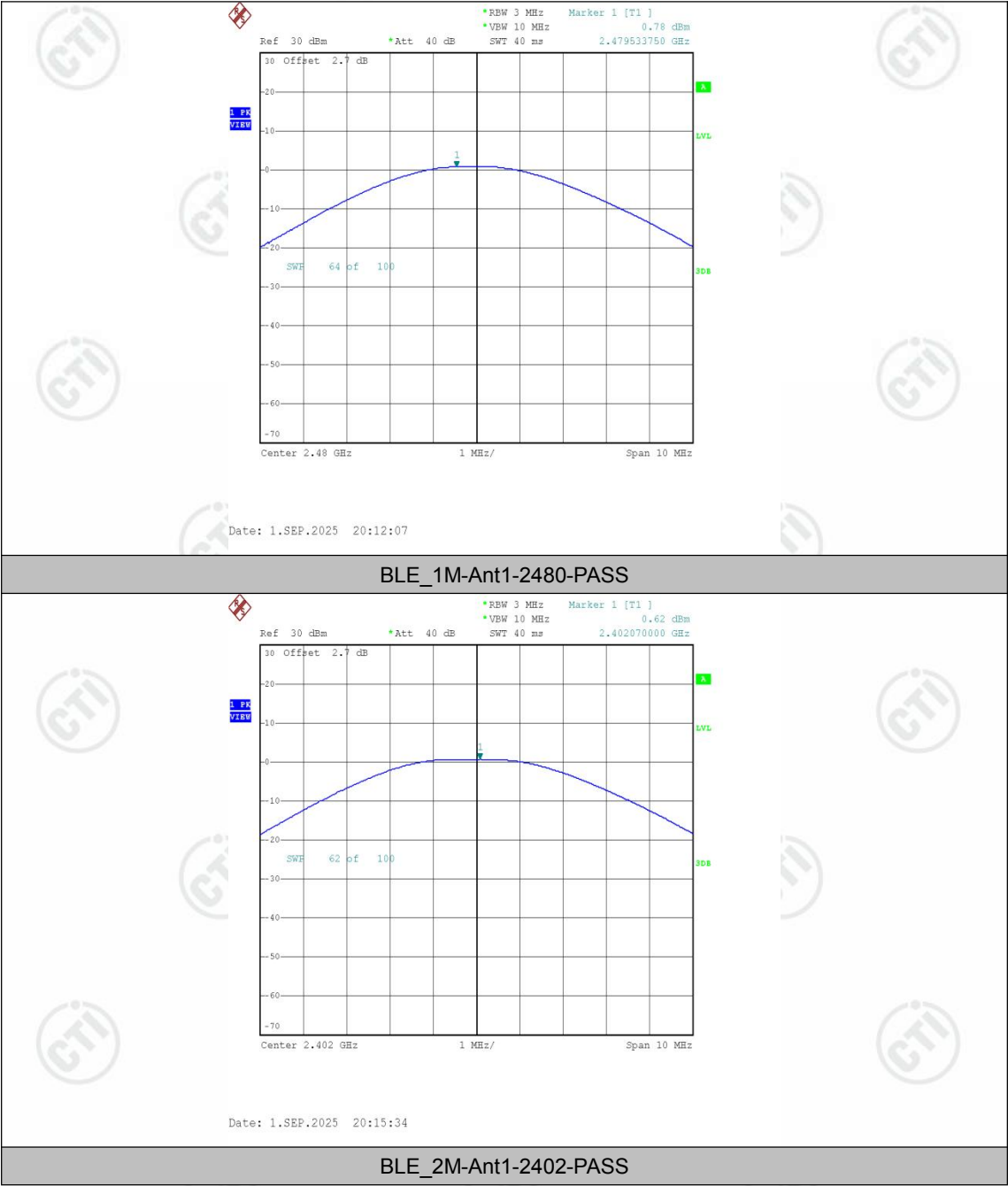


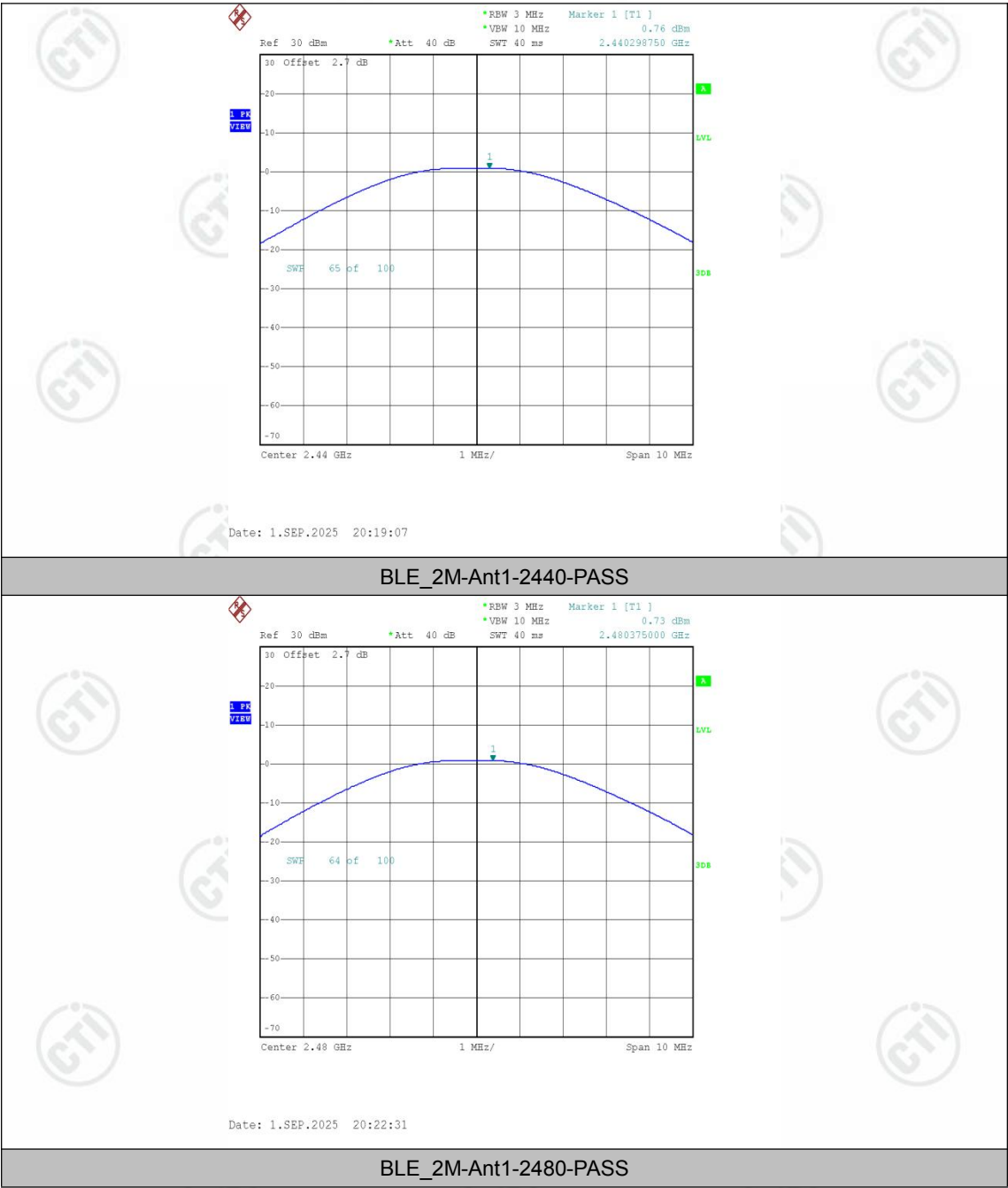


Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.09	≤30	0.59	≤36	PASS
BLE_1M	Ant1	2440	0.37	≤30	0.87	≤36	PASS
BLE_1M	Ant1	2480	0.78	≤30	1.28	≤36	PASS
BLE_2M	Ant1	2402	0.62	≤30	1.12	≤36	PASS
BLE_2M	Ant1	2440	0.76	≤30	1.26	≤36	PASS
BLE_2M	Ant1	2480	0.73	≤30	1.23	≤36	PASS

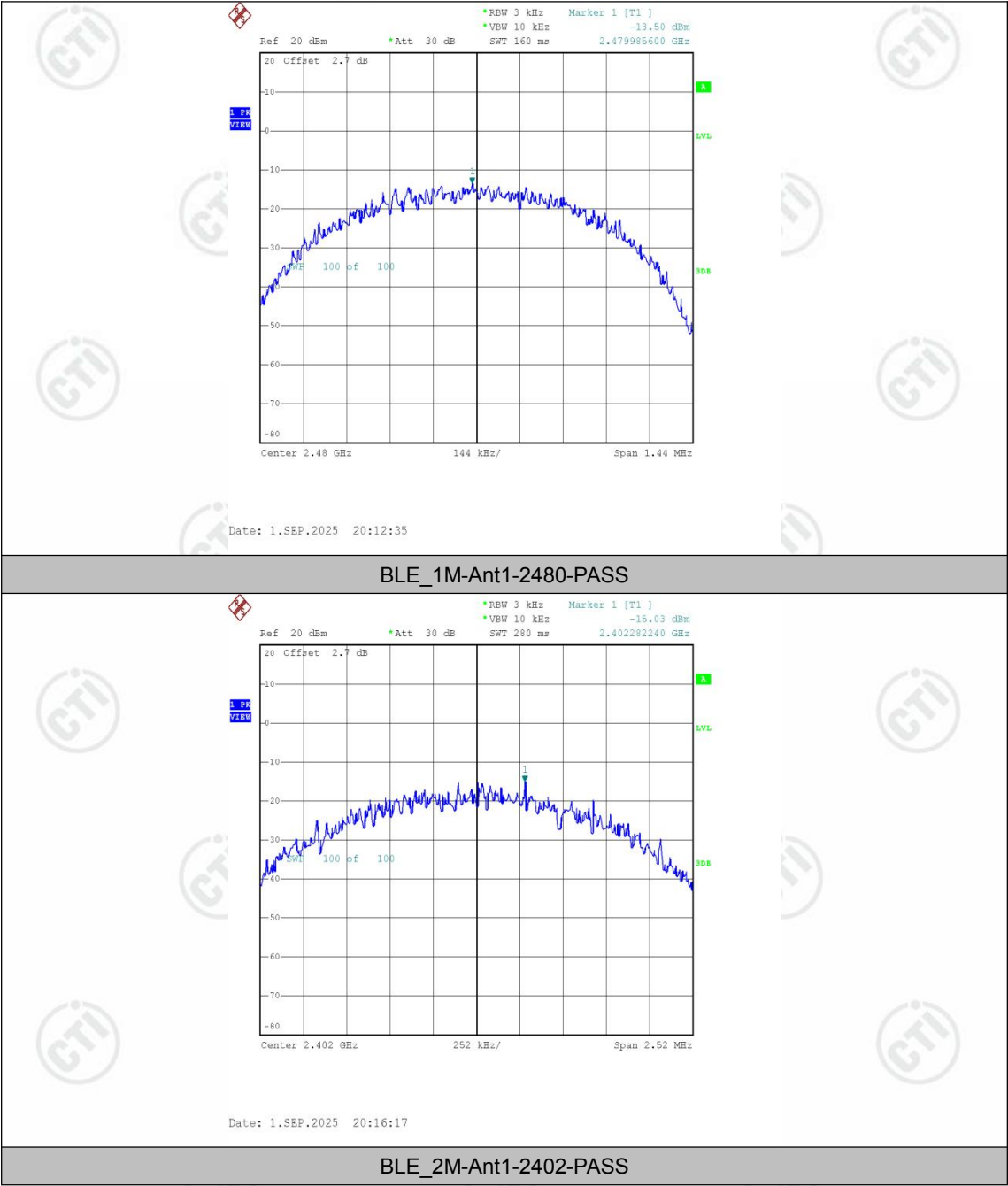


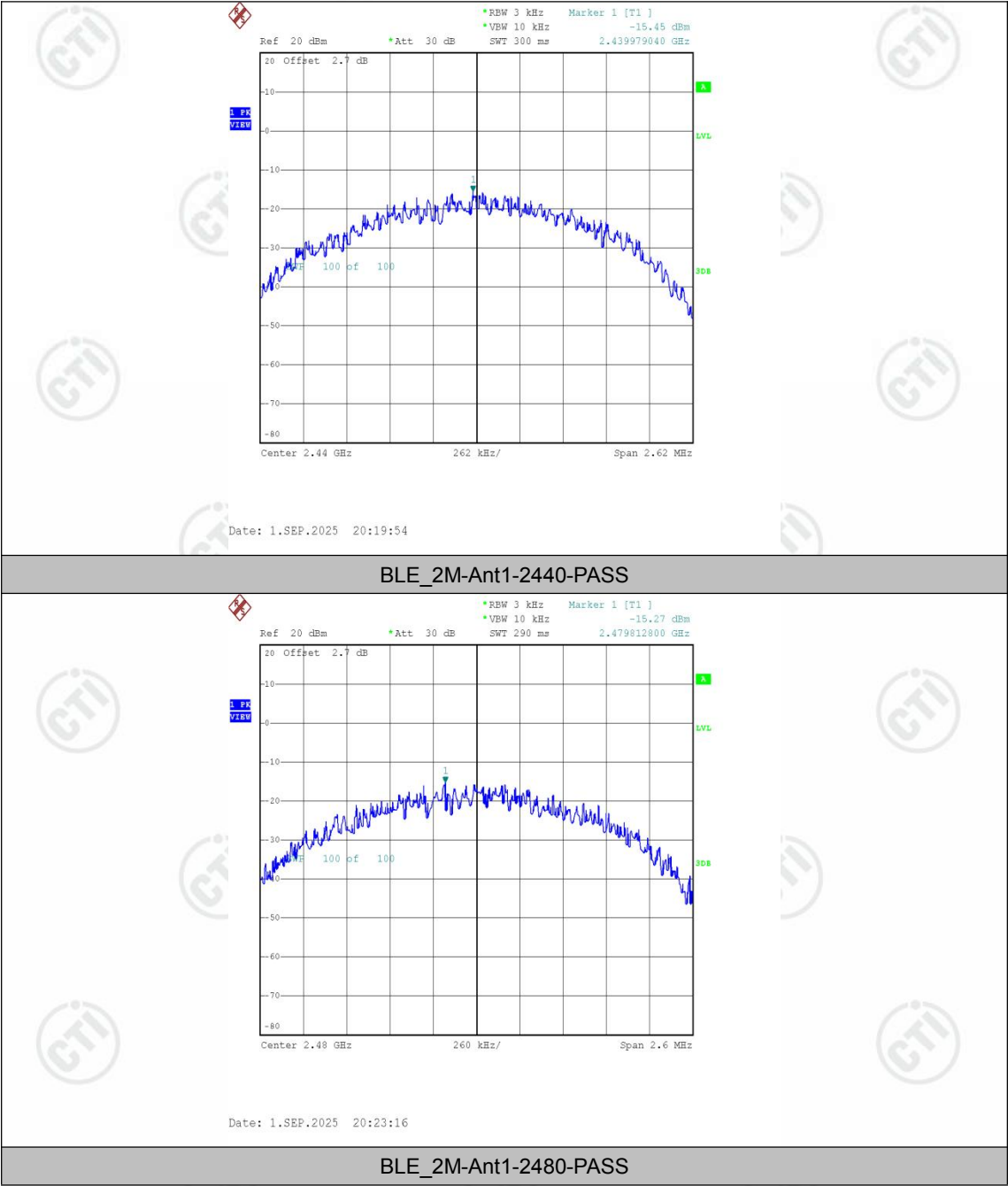


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.83	≤8.00	PASS
BLE_1M	Ant1	2440	-12.26	≤8.00	PASS
BLE_1M	Ant1	2480	-13.50	≤8.00	PASS
BLE_2M	Ant1	2402	-15.03	≤8.00	PASS
BLE_2M	Ant1	2440	-15.45	≤8.00	PASS
BLE_2M	Ant1	2480	-15.27	≤8.00	PASS



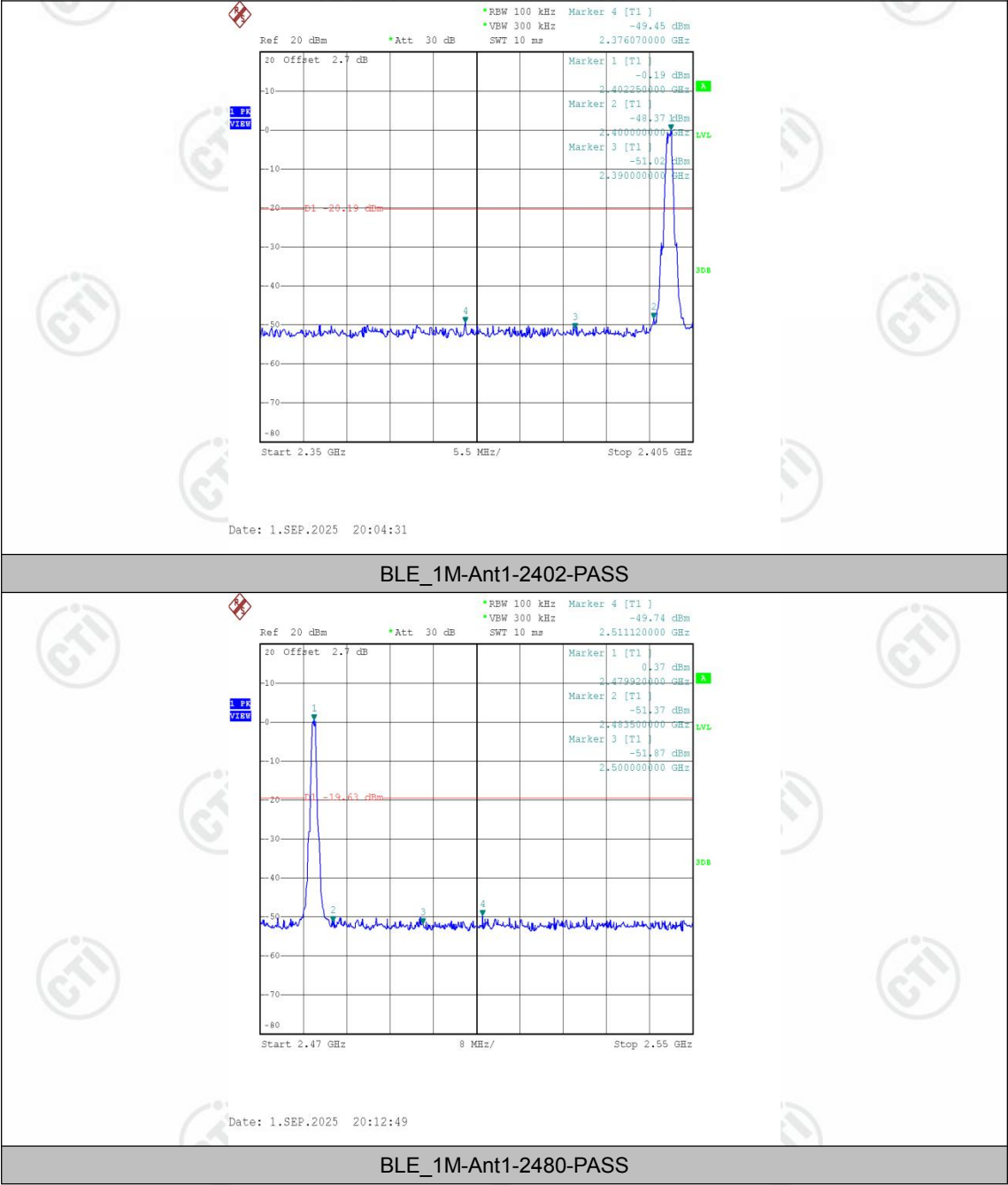


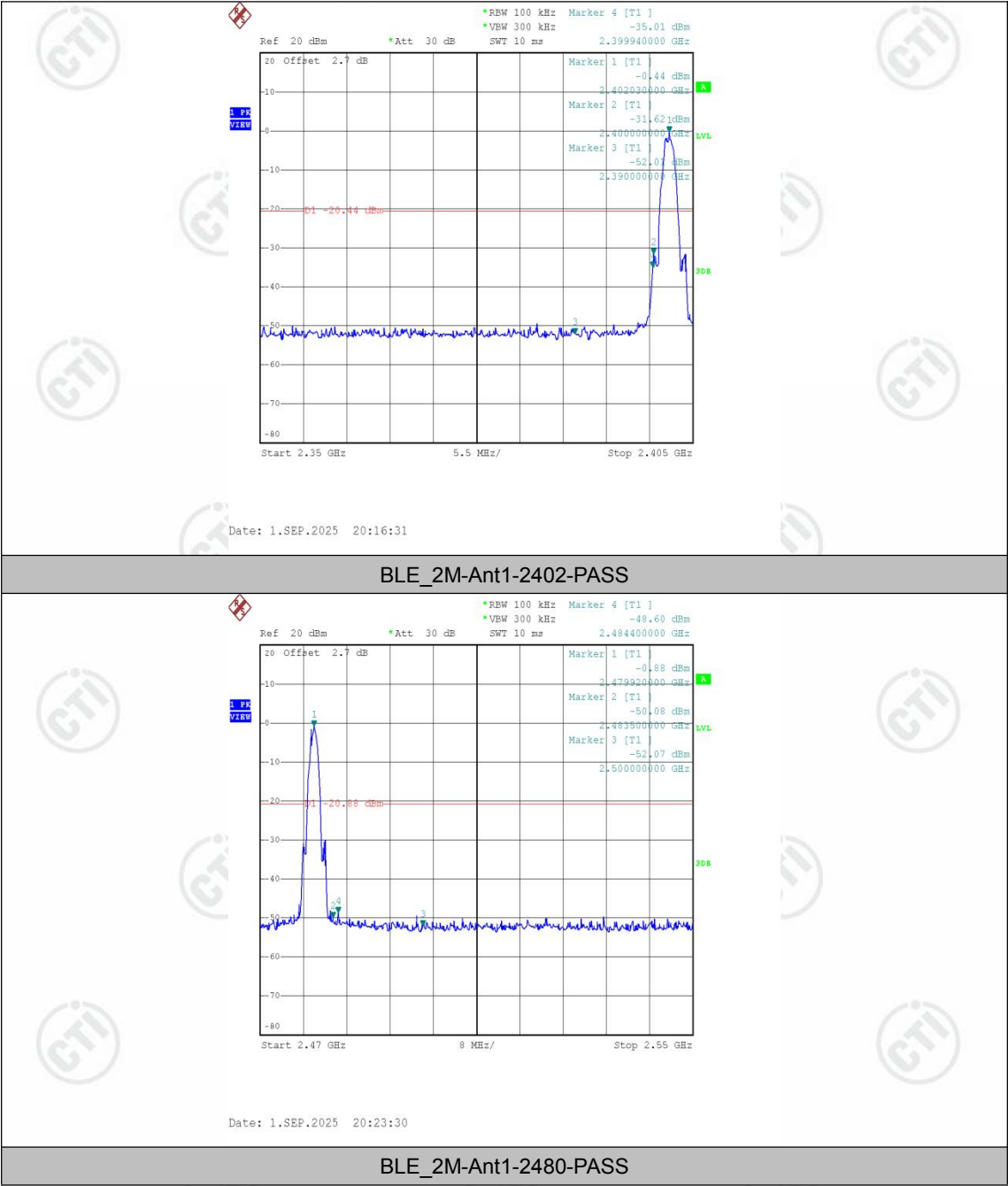
Appendix F: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.19	-49.45	≤-20.19	PASS
BLE_1M	Ant1	High	2480	0.37	-49.74	≤-19.63	PASS
BLE_2M	Ant1	Low	2402	-0.44	-35.01	≤-20.44	PASS
BLE_2M	Ant1	High	2480	-0.88	-48.6	≤-20.88	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	0~Reference	-0.17	-0.17	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.17	-56.79	≤-20.17	PASS
BLE_1M	Ant1	2402	1000~26500	-0.17	-39.04	≤-20.17	PASS
BLE_1M	Ant1	2440	0~Reference	-0.16	-0.16	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.16	-56.95	≤-20.16	PASS
BLE_1M	Ant1	2440	1000~26500	-0.16	-39.5	≤-20.16	PASS
BLE_1M	Ant1	2480	0~Reference	0.20	0.20	---	PASS
BLE_1M	Ant1	2480	30~1000	0.20	-56.86	≤-19.8	PASS
BLE_1M	Ant1	2480	1000~26500	0.20	-39.51	≤-19.8	PASS
BLE_2M	Ant1	2402	0~Reference	-0.79	-0.79	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.79	-57	≤-20.79	PASS
BLE_2M	Ant1	2402	1000~26500	-0.79	-39.24	≤-20.79	PASS
BLE_2M	Ant1	2440	0~Reference	-1.06	-1.06	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.06	-57.15	≤-21.06	PASS
BLE_2M	Ant1	2440	1000~26500	-1.06	-39.24	≤-21.06	PASS
BLE_2M	Ant1	2480	0~Reference	-0.32	-0.32	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.32	-56.71	≤-20.32	PASS
BLE_2M	Ant1	2480	1000~26500	-0.32	-38.82	≤-20.32	PASS

