

Appendix: Bluetooth LE

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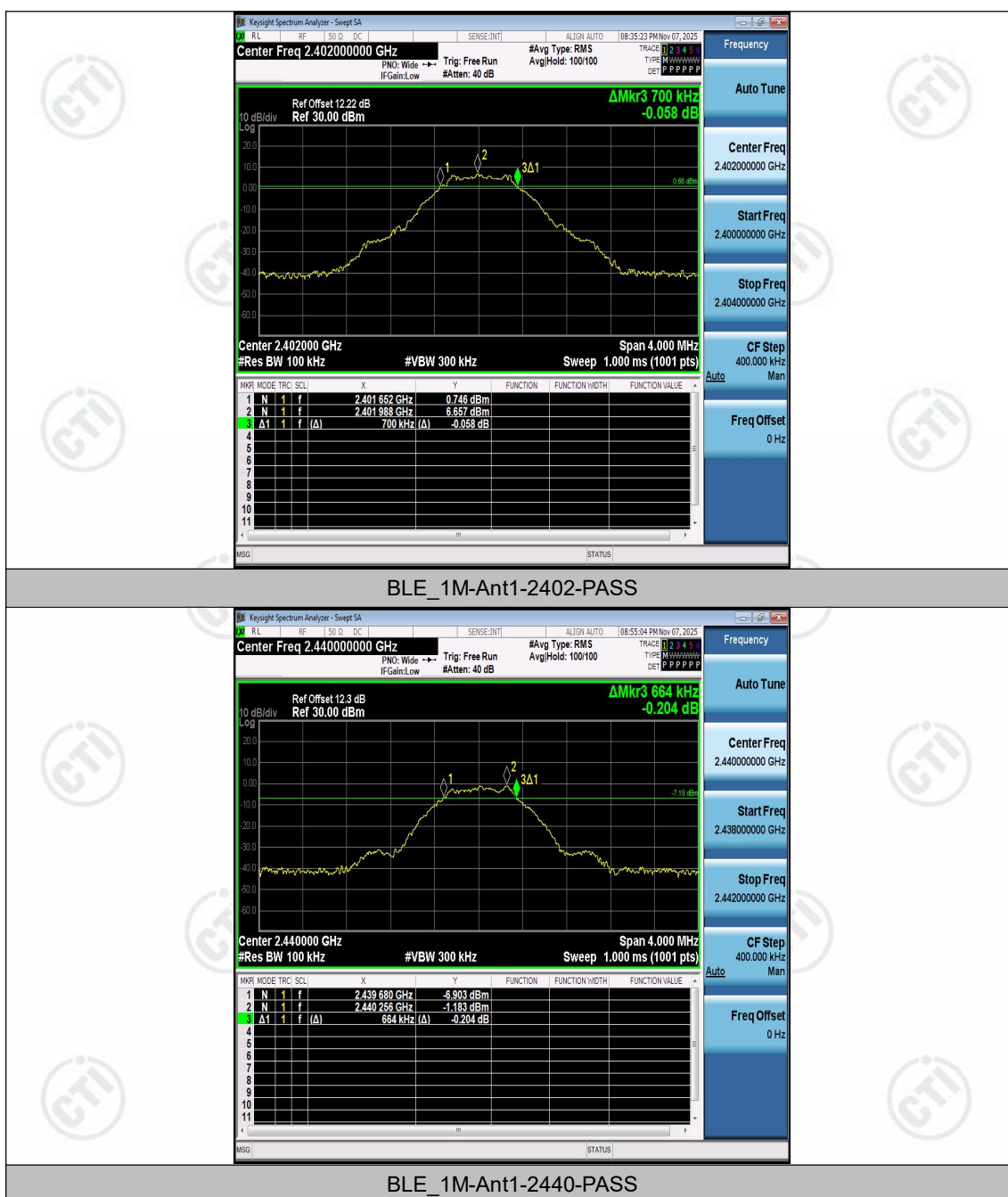
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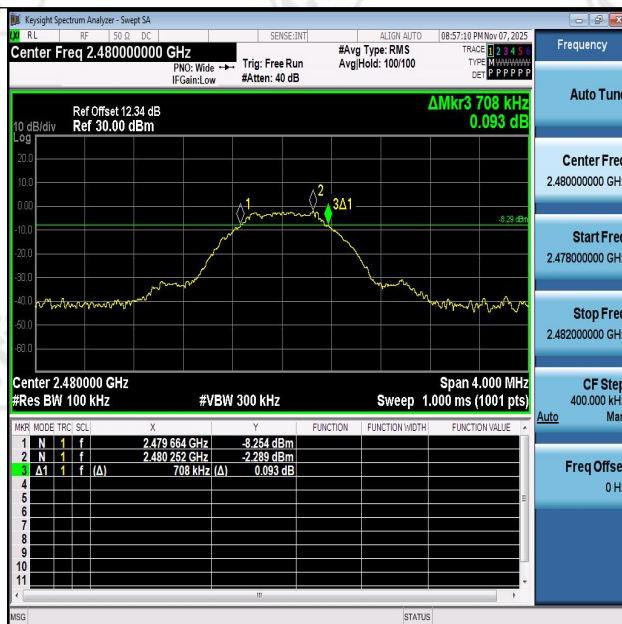
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.652	2402.352	0.5	PASS
BLE_1M	Ant1	2440	0.664	2439.680	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.708	2479.664	2480.372	0.5	PASS
BLE_2M	Ant1	2402	1.260	2401.348	2402.608	0.5	PASS
BLE_2M	Ant1	2440	1.140	2439.460	2440.600	0.5	PASS
BLE_2M	Ant1	2480	1.104	2479.464	2480.568	0.5	PASS

Test Graphs

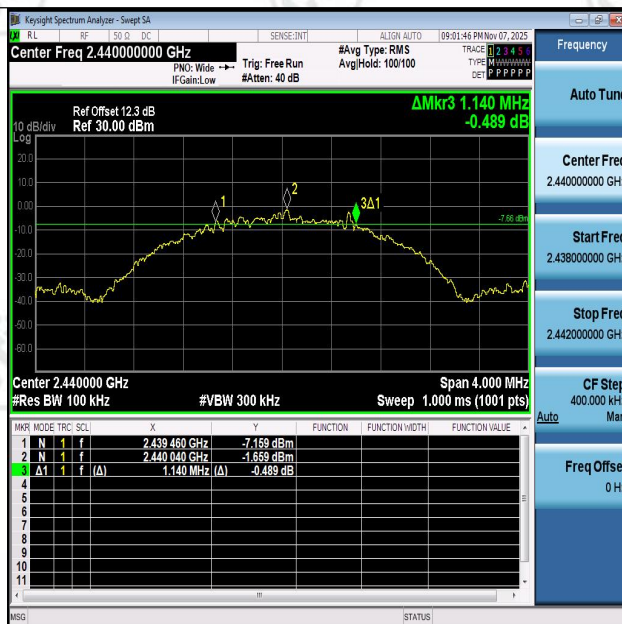




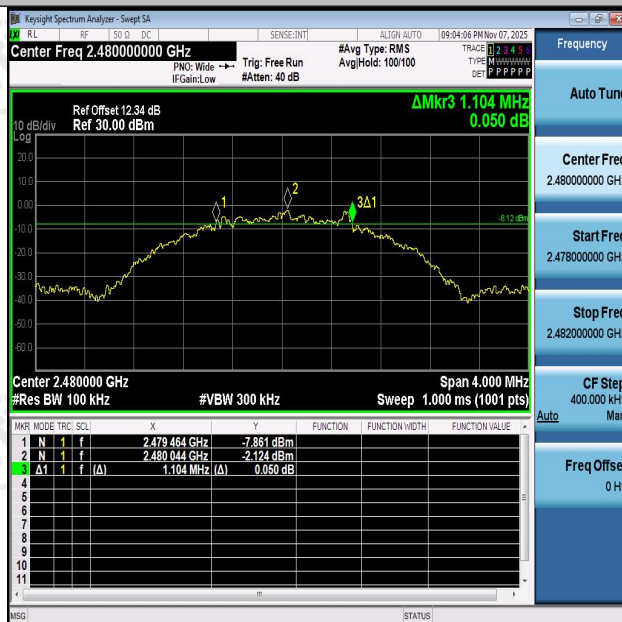
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



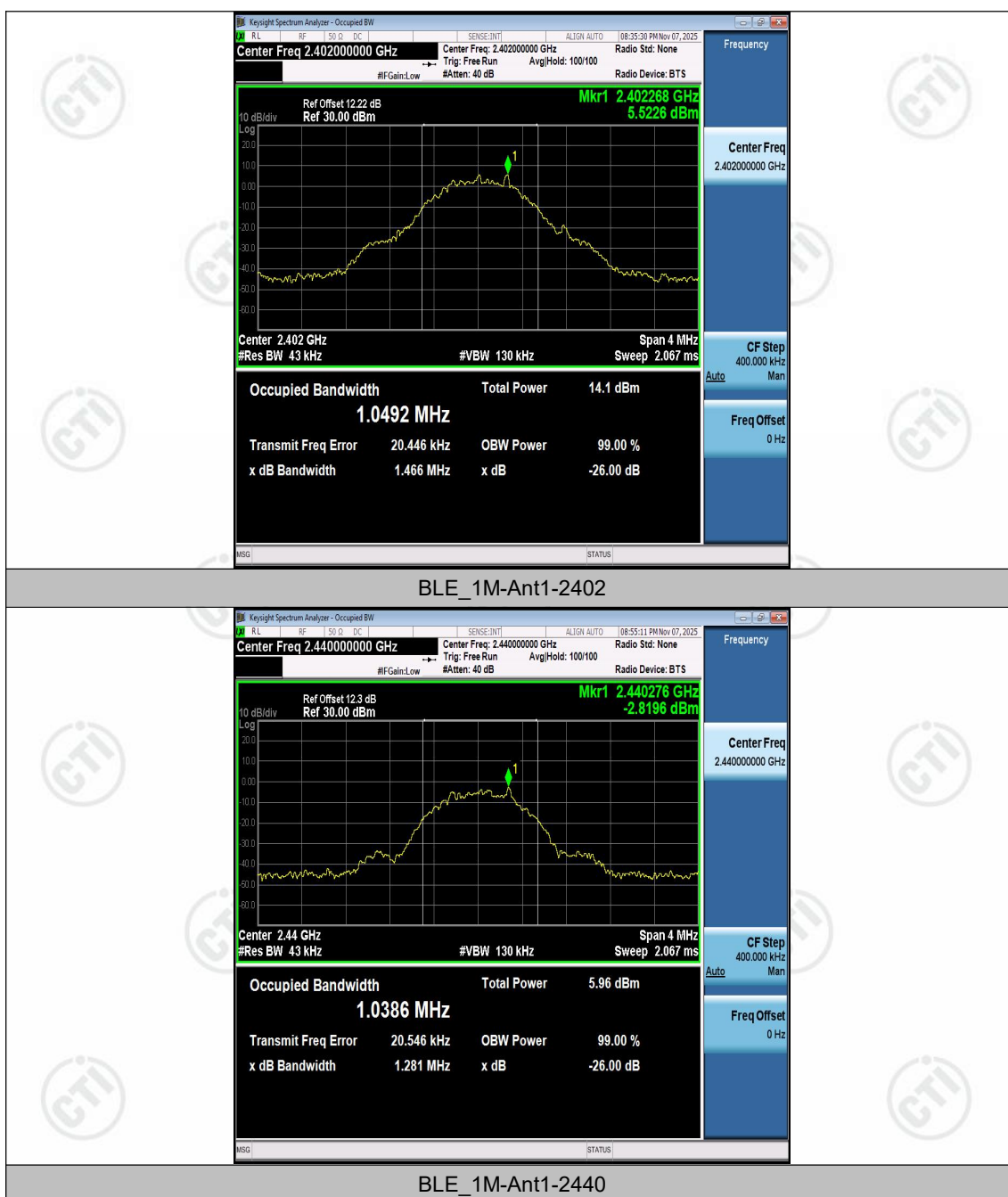
BLE_2M-Ant1-2480-PASS

Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0492	2401.4959	2402.545 1	---	---
BLE_1M	Ant1	2440	1.0386	2439.5013	2440.539 9	---	---
BLE_1M	Ant1	2480	1.0396	2479.5008	2480.540 4	---	---
BLE_2M	Ant1	2402	2.0750	2400.9935	2403.068 5	---	---
BLE_2M	Ant1	2440	2.0685	2438.9981	2441.066 6	---	---
BLE_2M	Ant1	2480	2.0887	2478.9897	2481.078 4	---	---

Test Graphs





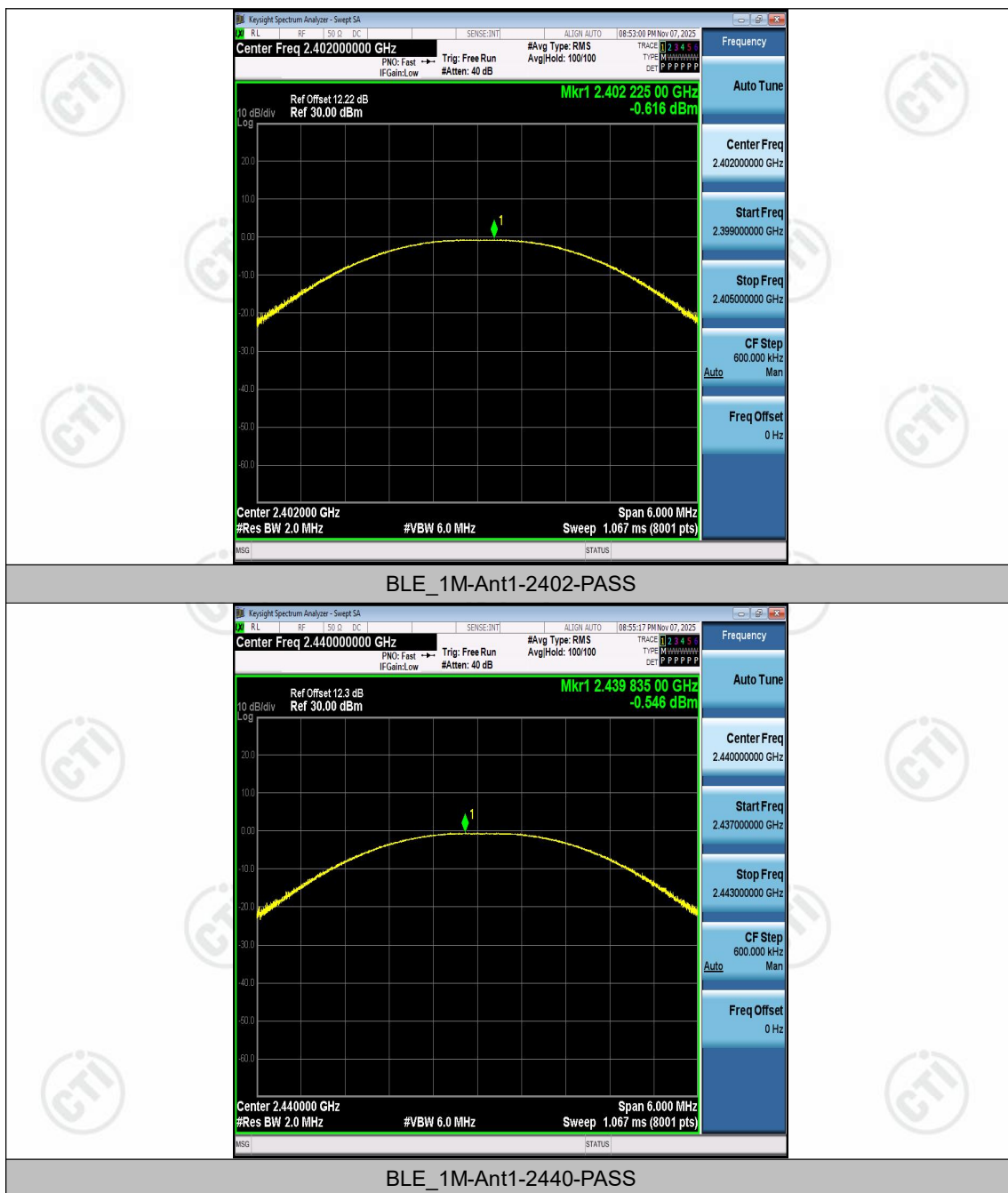


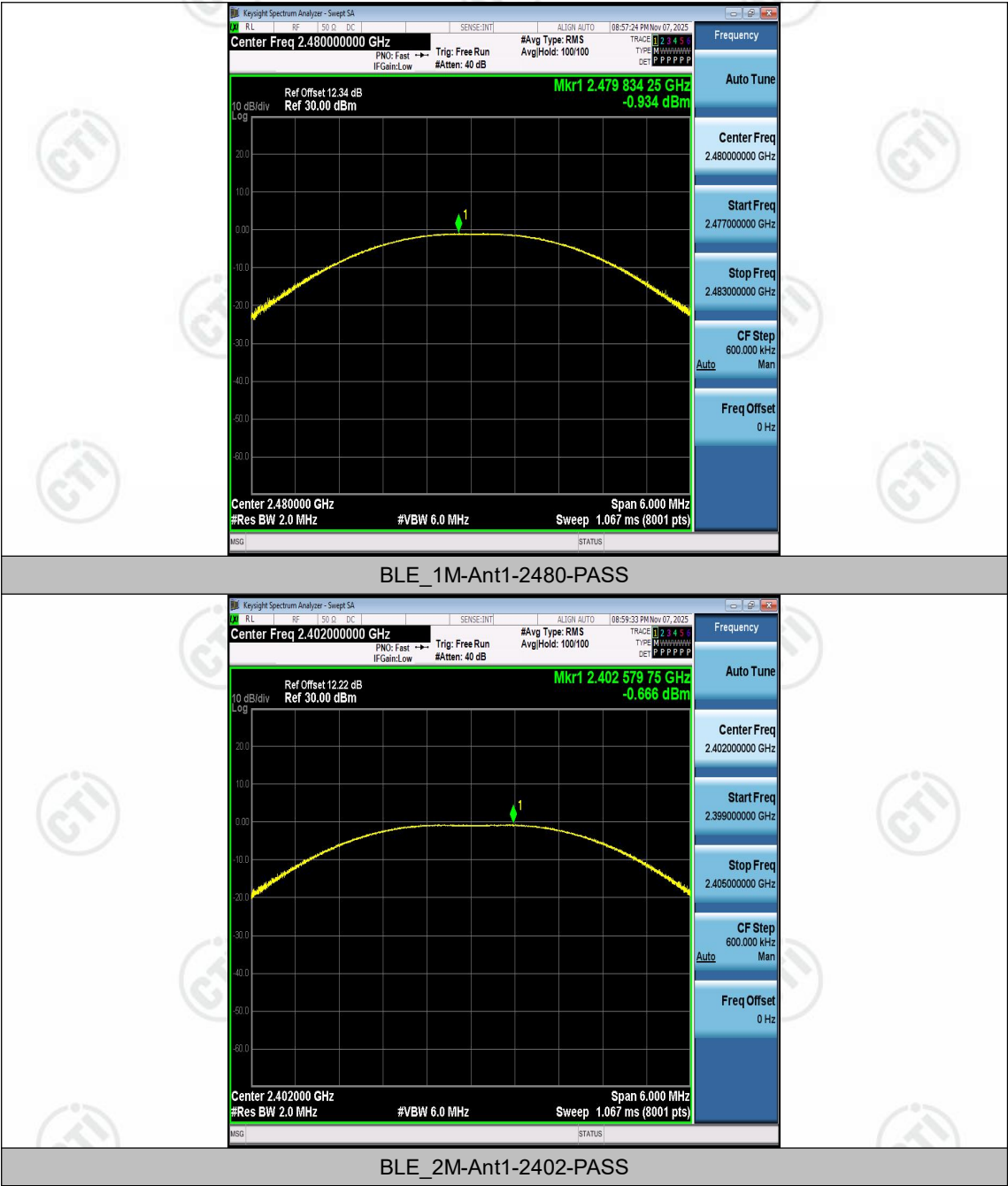
Appendix C: Maximum conducted output power

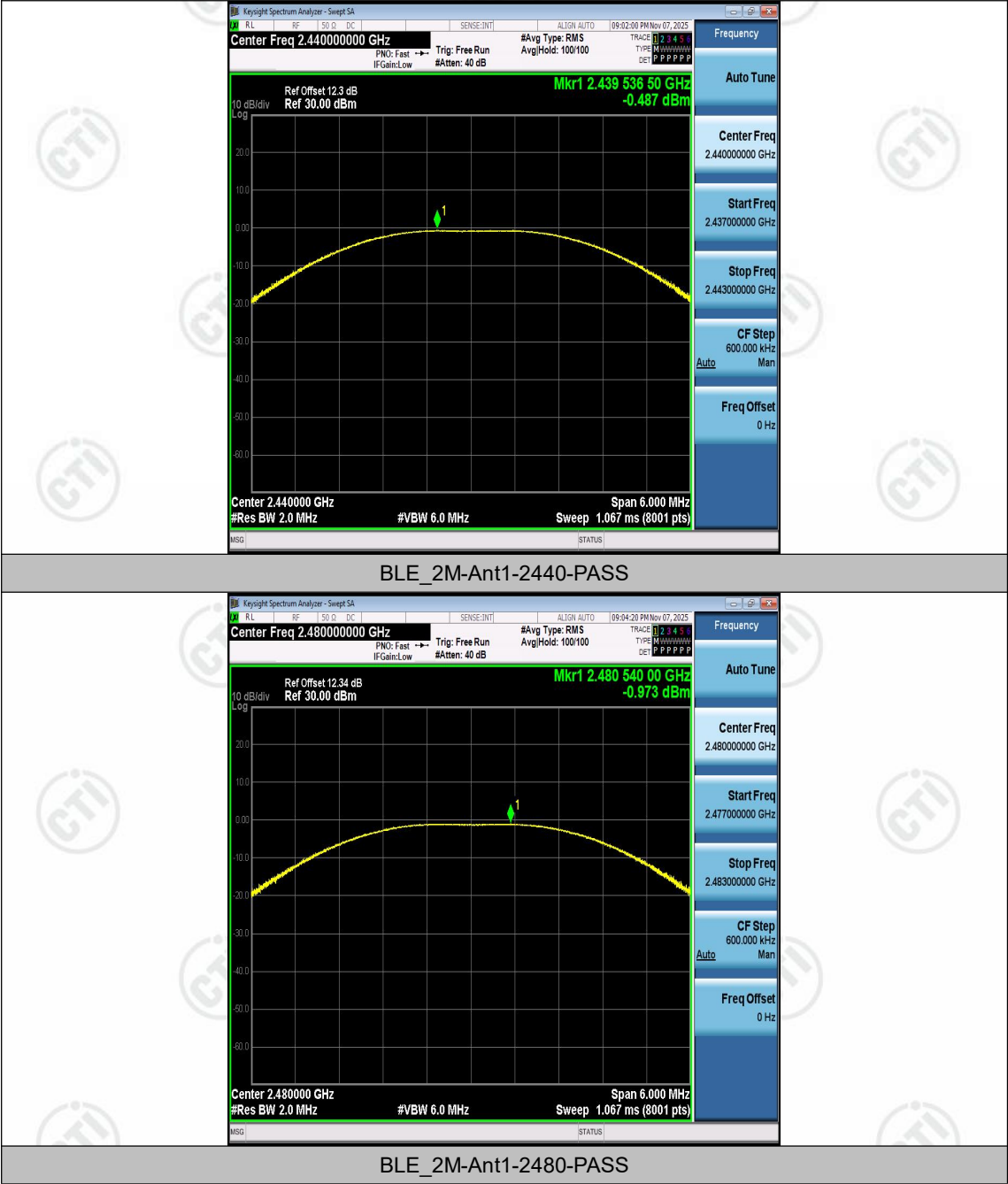
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.62	≤30	PASS
BLE_1M	Ant1	2440	-0.55	≤30	PASS
BLE_1M	Ant1	2480	-0.93	≤30	PASS
BLE_2M	Ant1	2402	-0.67	≤30	PASS
BLE_2M	Ant1	2440	-0.49	≤30	PASS
BLE_2M	Ant1	2480	-0.97	≤30	PASS

Test Graphs Peak





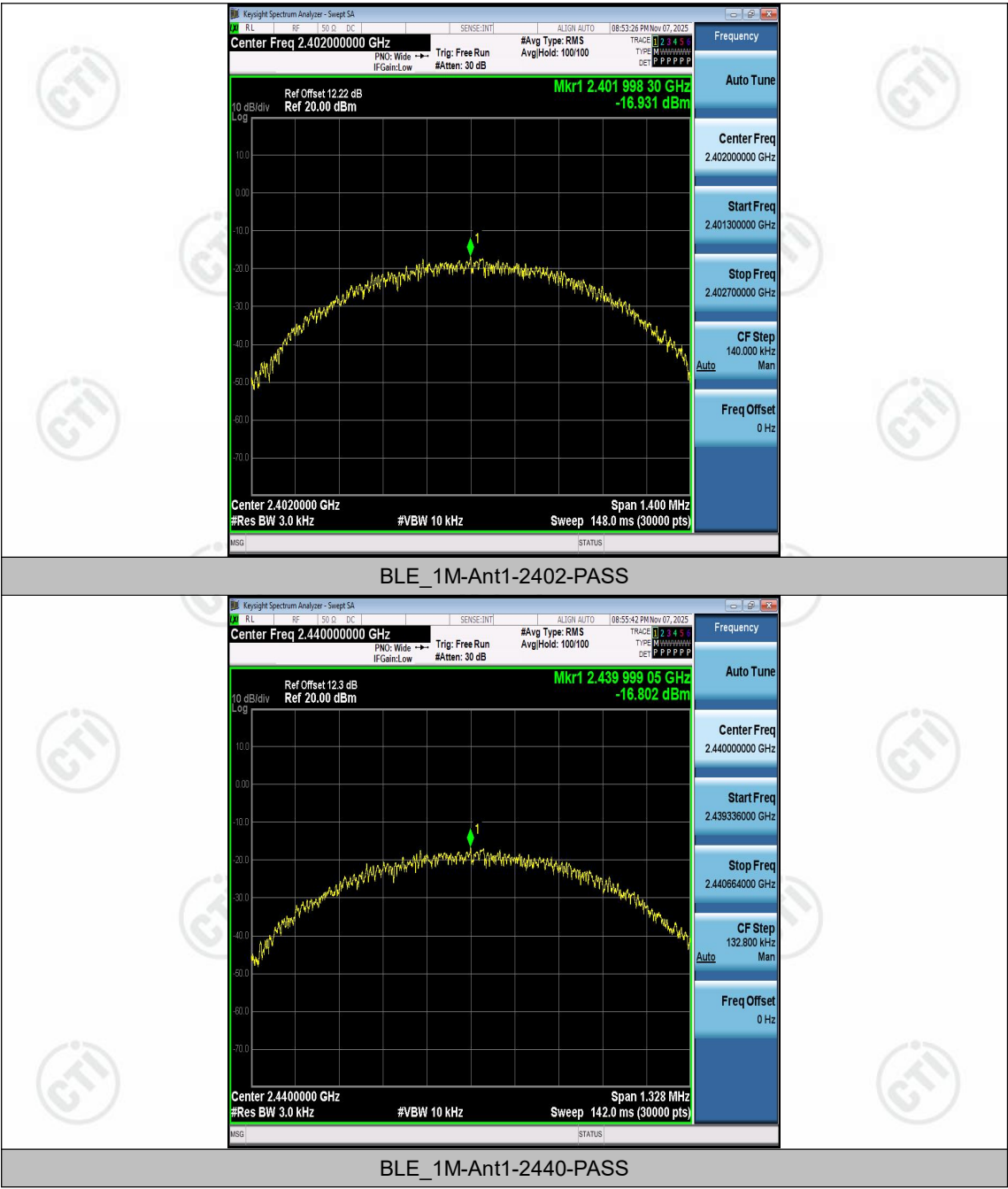


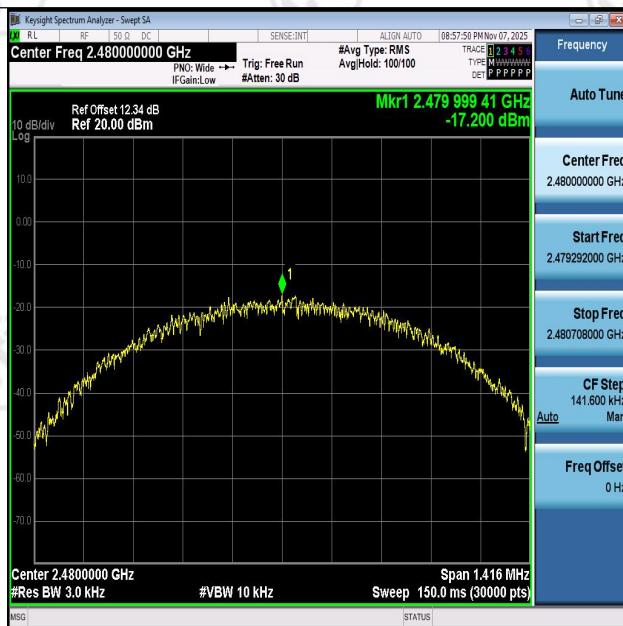
Appendix D: Maximum power spectral density

Test Result

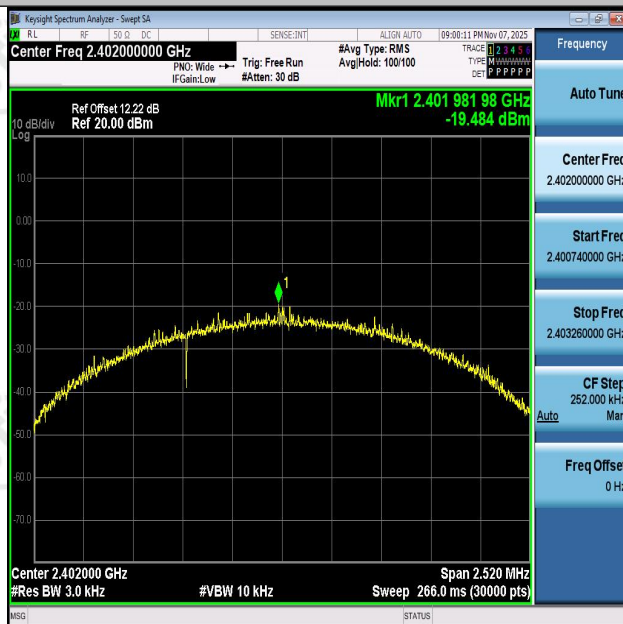
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.93	≤8.00	PASS
BLE_1M	Ant1	2440	-16.80	≤8.00	PASS
BLE_1M	Ant1	2480	-17.20	≤8.00	PASS
BLE_2M	Ant1	2402	-19.48	≤8.00	PASS
BLE_2M	Ant1	2440	-19.31	≤8.00	PASS
BLE_2M	Ant1	2480	-19.94	≤8.00	PASS

Test Graphs

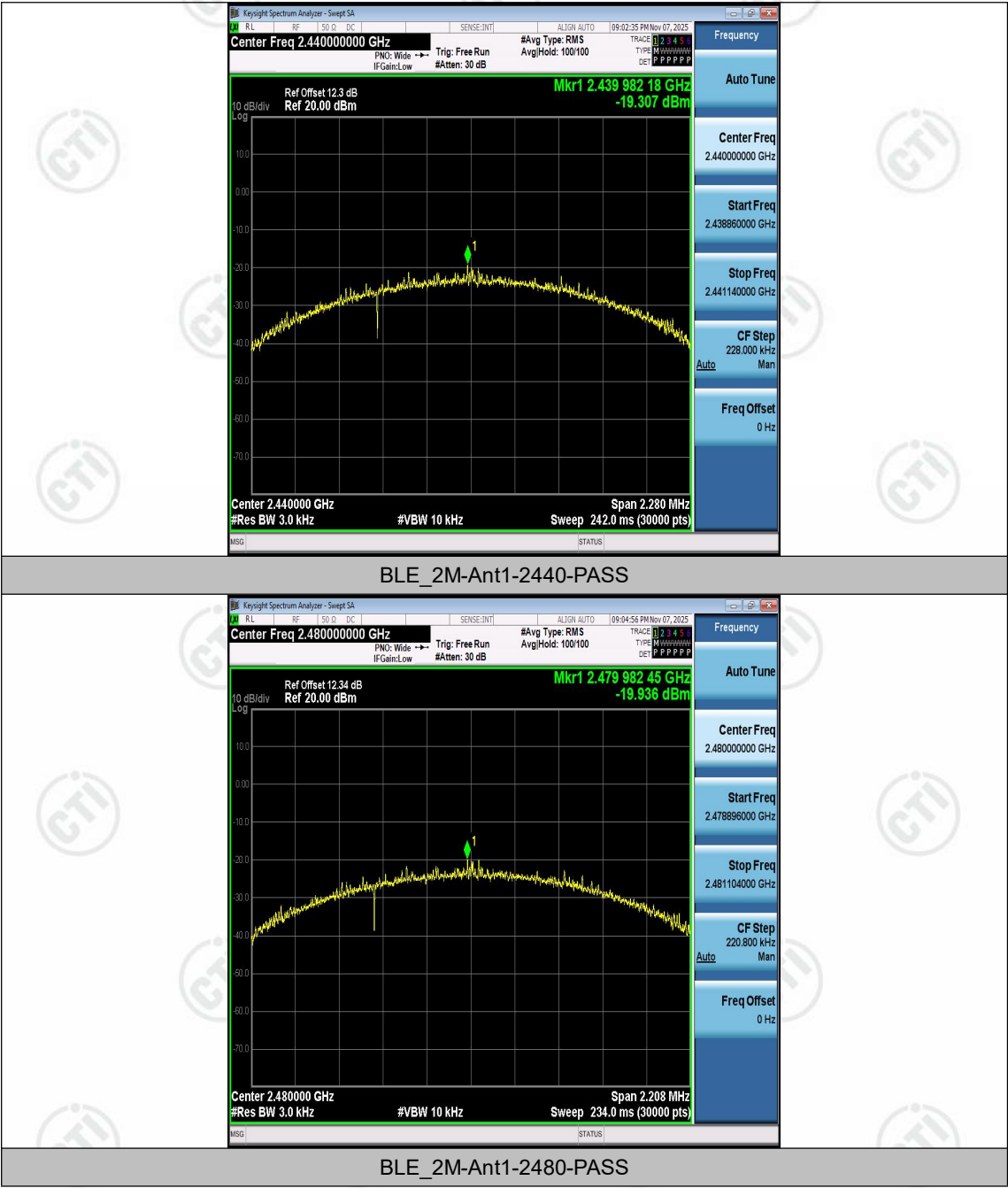




BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

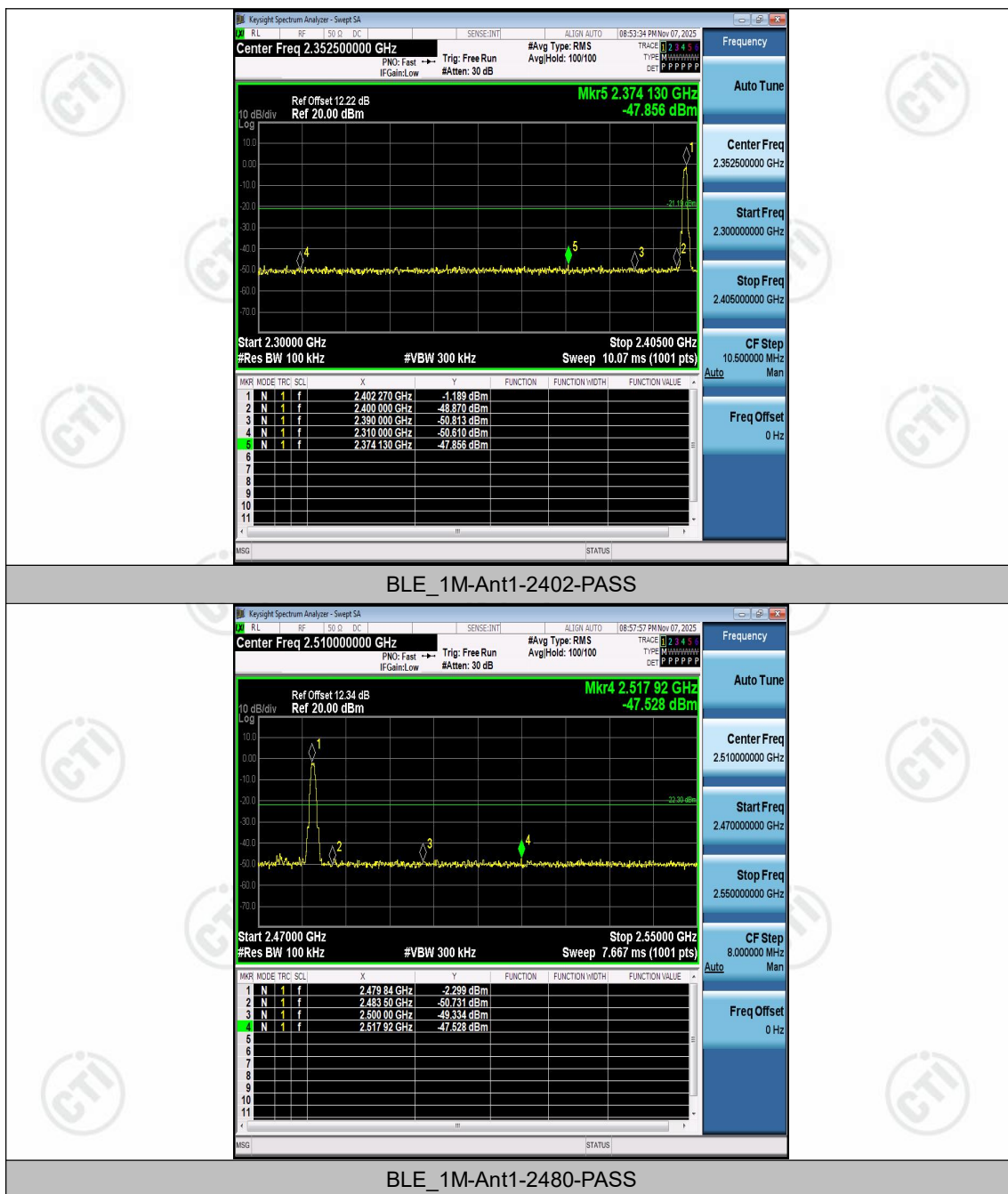


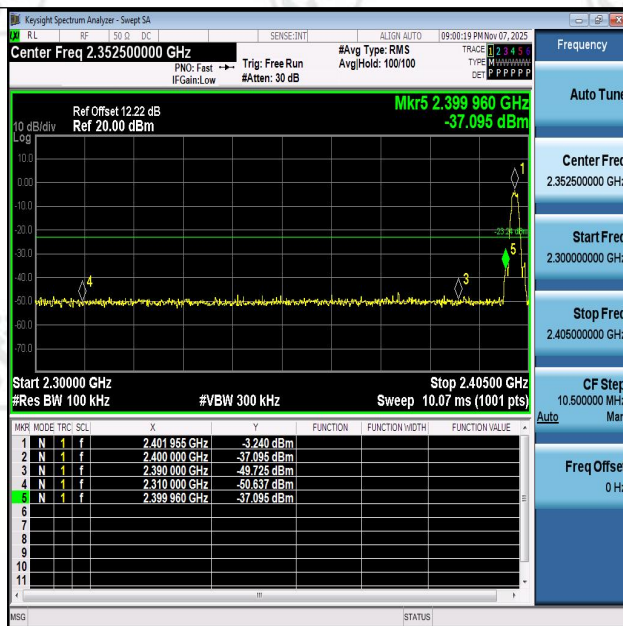
Appendix F: Band edge measurements

Test Result

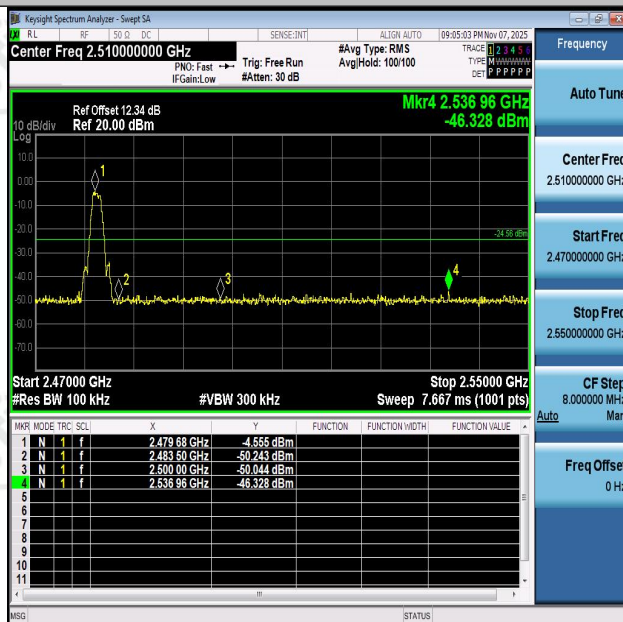
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.19	-47.86	≤-21.19	PASS
BLE_1M	Ant1	High	2480	-2.30	-47.53	≤-22.3	PASS
BLE_2M	Ant1	Low	2402	-3.24	-37.1	≤-23.24	PASS
BLE_2M	Ant1	High	2480	-4.56	-46.33	≤-24.56	PASS

Test Graphs





BLE_2M-Ant1-2402-PASS



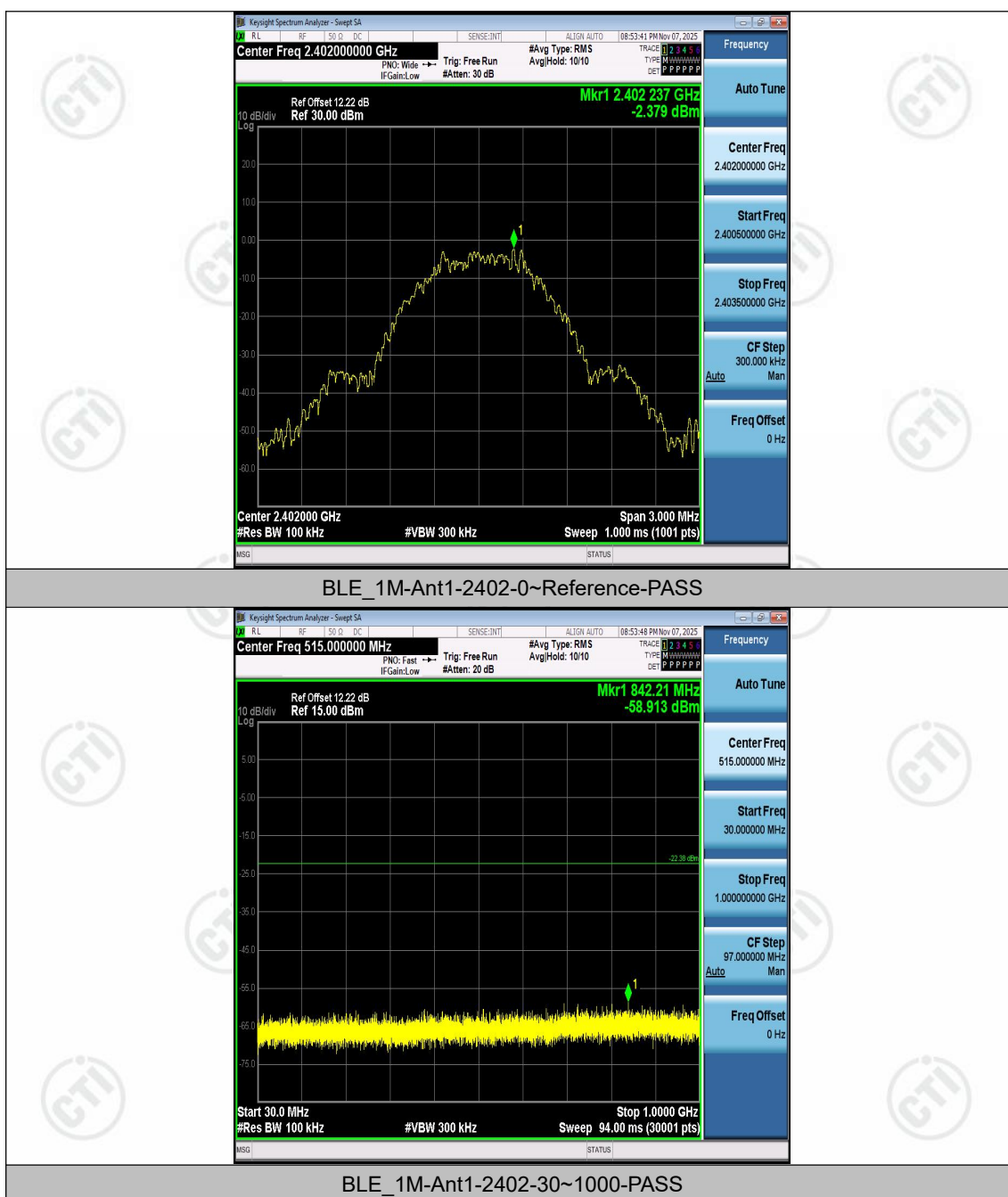
BLE_2M-Ant1-2480-PASS

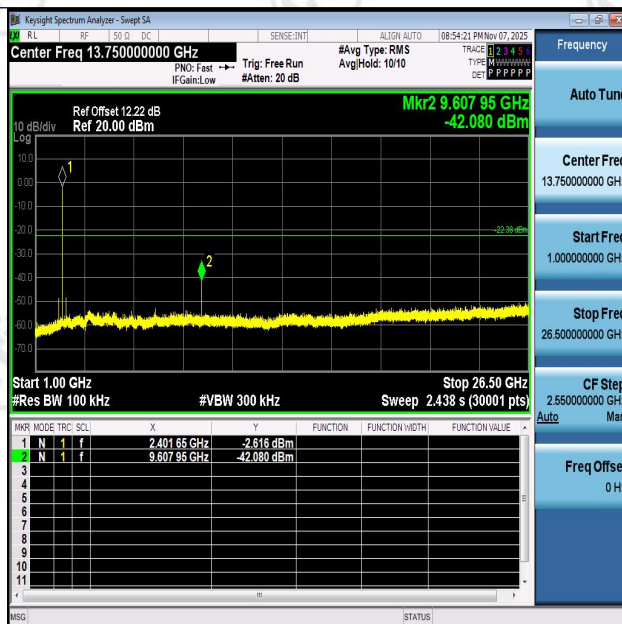
Appendix G: Conducted Spurious Emission

Test Result

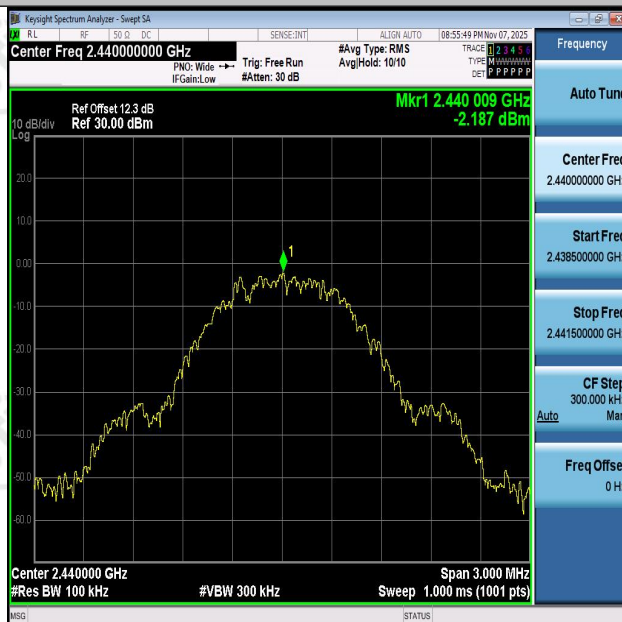
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.38	-2.38	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.38	-58.91	≤-22.38	PASS
BLE_1M	Ant1	2402	1000~26500	-2.38	-42.08	≤-22.38	PASS
BLE_1M	Ant1	2440	0~Reference	-2.19	-2.19	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.19	-59.2	≤-22.19	PASS
BLE_1M	Ant1	2440	1000~26500	-2.19	-42.49	≤-22.19	PASS
BLE_1M	Ant1	2480	0~Reference	-2.57	-2.57	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.57	-59.08	≤-22.57	PASS
BLE_1M	Ant1	2480	1000~26500	-2.57	-40.94	≤-22.57	PASS
BLE_2M	Ant1	2402	0~Reference	-4.30	-4.30	---	PASS
BLE_2M	Ant1	2402	30~1000	-4.30	-54.5	≤-24.3	PASS
BLE_2M	Ant1	2402	1000~26500	-4.30	-42.93	≤-24.3	PASS
BLE_2M	Ant1	2440	0~Reference	-4.74	-4.74	---	PASS
BLE_2M	Ant1	2440	30~1000	-4.74	-58.89	≤-24.74	PASS
BLE_2M	Ant1	2440	1000~26500	-4.74	-42.85	≤-24.74	PASS
BLE_2M	Ant1	2480	0~Reference	-4.36	-4.36	---	PASS
BLE_2M	Ant1	2480	30~1000	-4.36	-59.34	≤-24.36	PASS
BLE_2M	Ant1	2480	1000~26500	-4.36	-40.75	≤-24.36	PASS

Test Graphs





BLE_1M-Ant1-2402-1000~26500-PASS



BLE_1M-Ant1-2440-0~Reference-PASS

