

Appendix: Bluetooth LE

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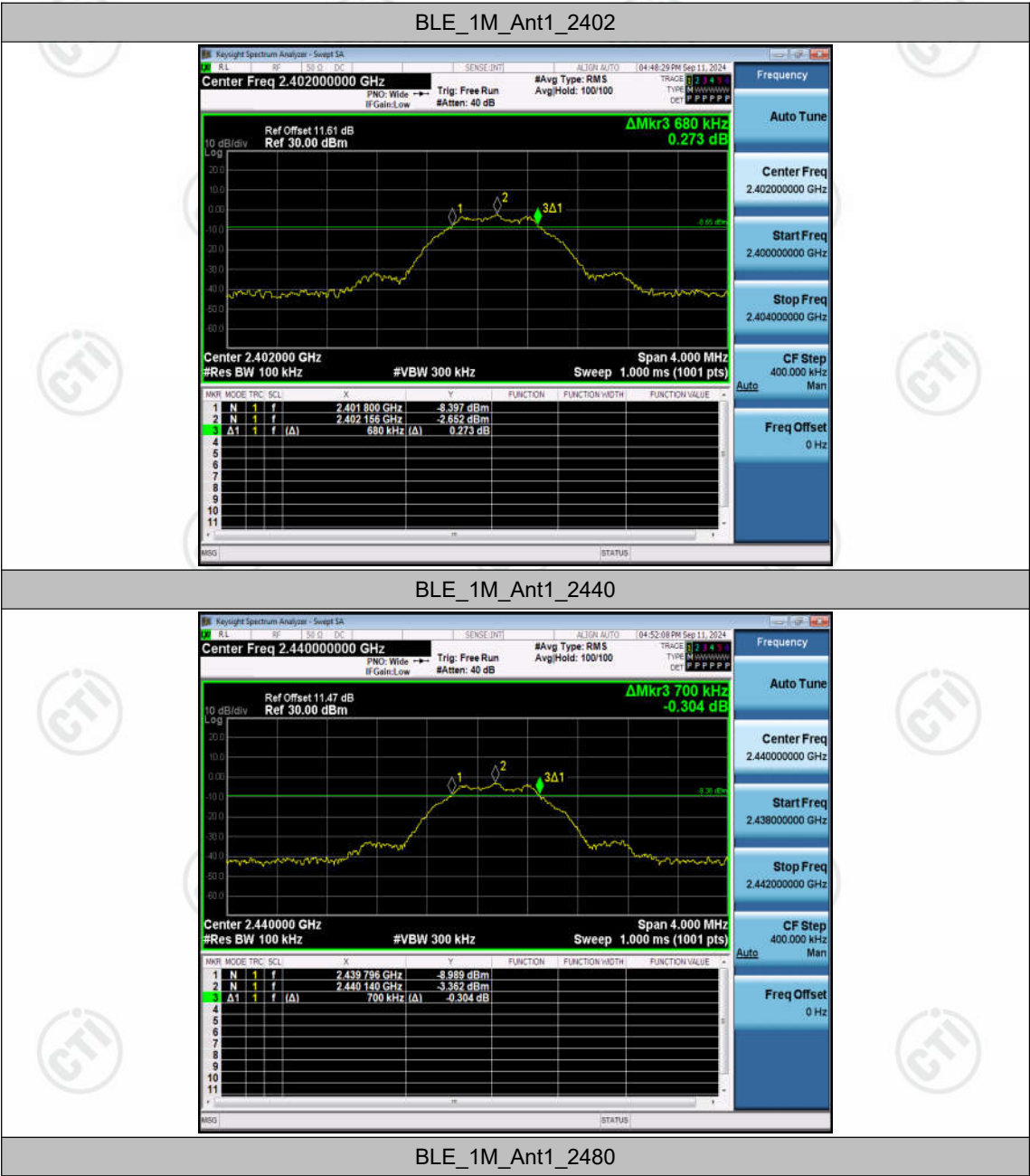
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Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.800	2402.480	0.5	PASS
		2440	0.700	2439.796	2440.496	0.5	PASS
		2480	0.680	2479.816	2480.496	0.5	PASS
BLE_2M	Ant1	2402	1.088	2401.592	2402.680	0.5	PASS
		2440	1.152	2439.568	2440.720	0.5	PASS
		2480	1.112	2479.592	2480.704	0.5	PASS

Test Graphs



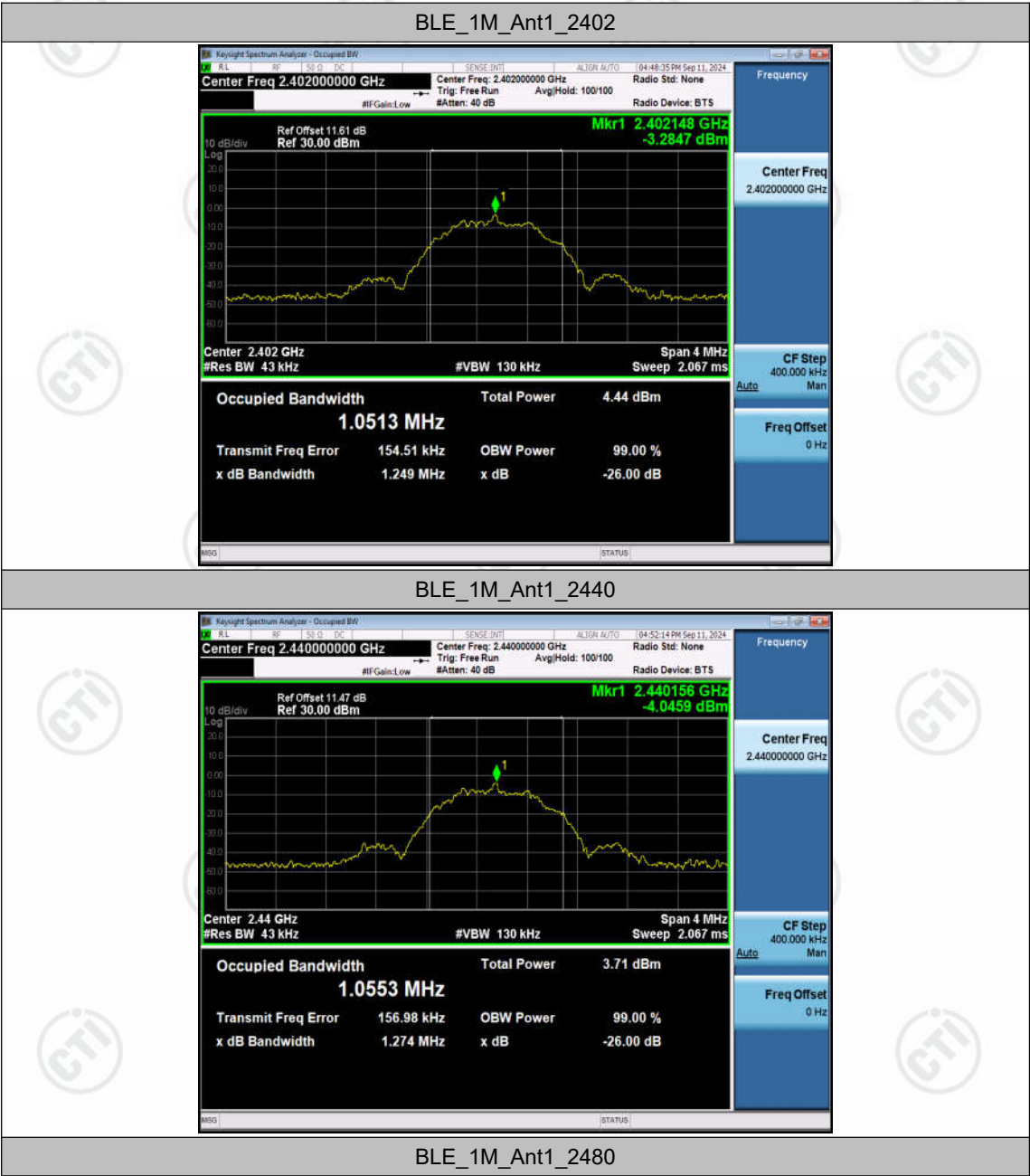


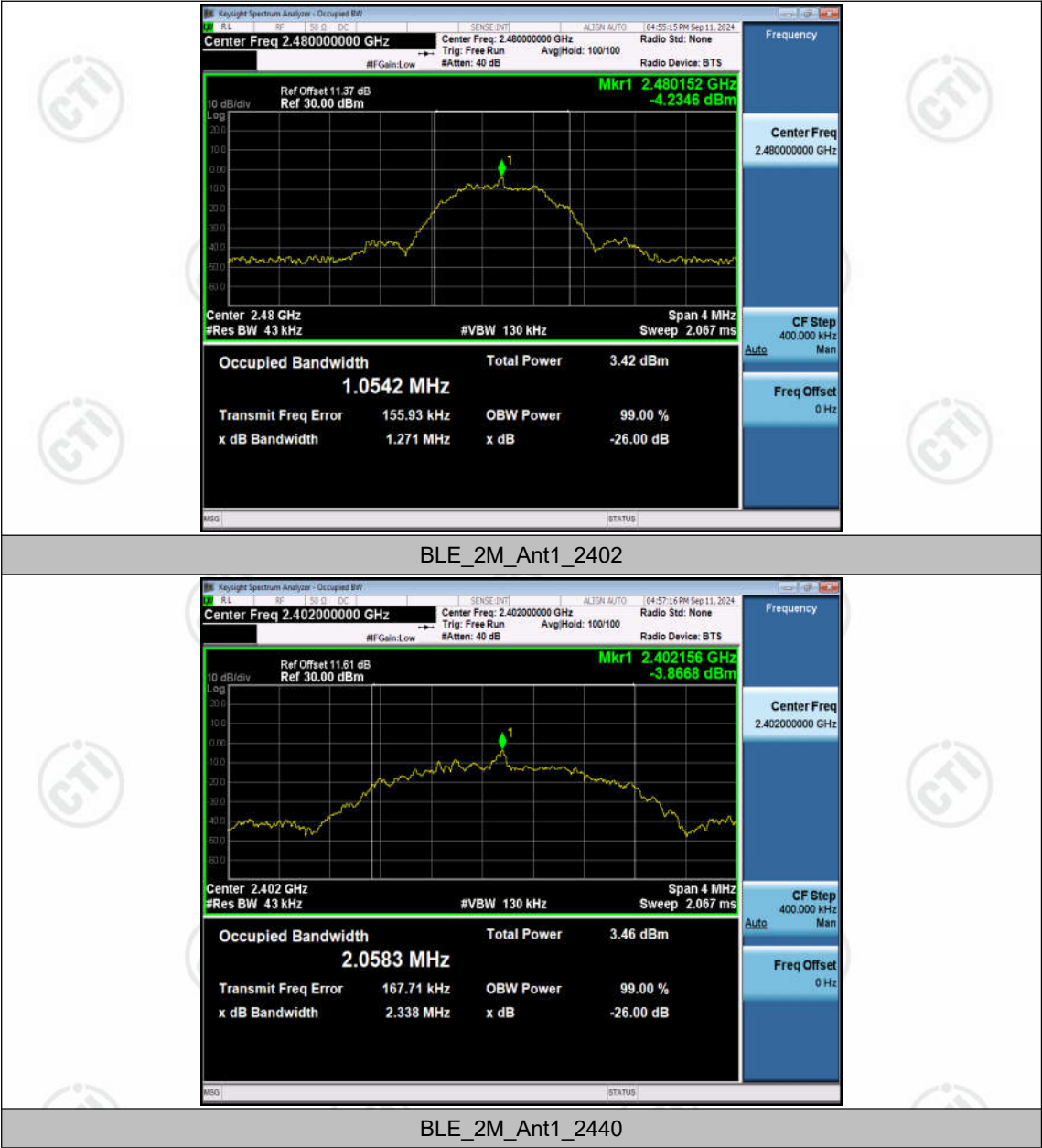
Appendix B: Occupied Channel Bandwidth

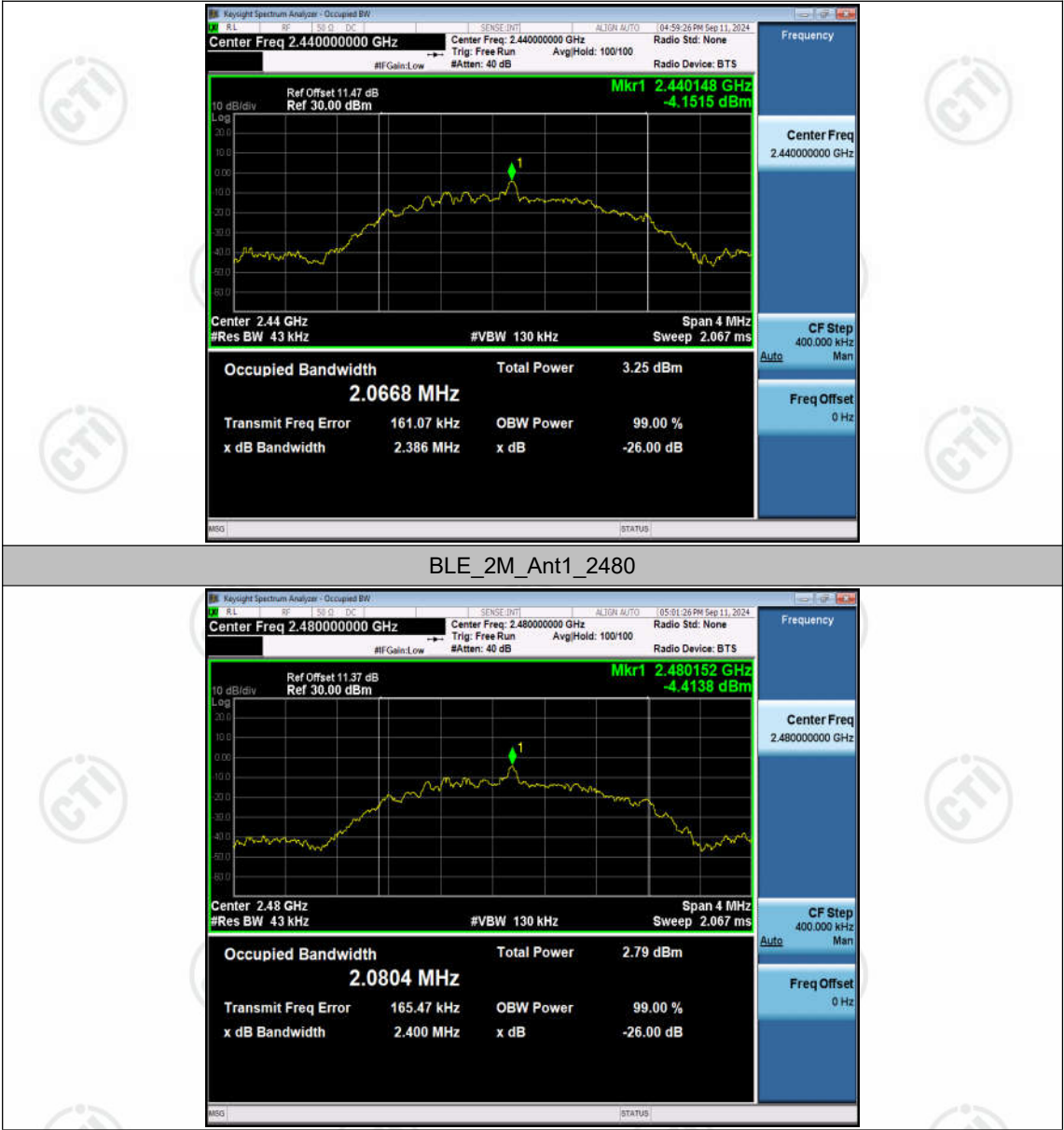
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0513	2401.6289	2402.6802	---	---
		2440	1.0553	2439.6293	2440.6846	---	---
		2480	1.0542	2479.6288	2480.6830	---	---
BLE_2M	Ant1	2402	2.0583	2401.1386	2403.1969	---	---
		2440	2.0668	2439.1277	2441.1945	---	---
		2480	2.0804	2479.1253	2481.2057	---	---

Test Graphs







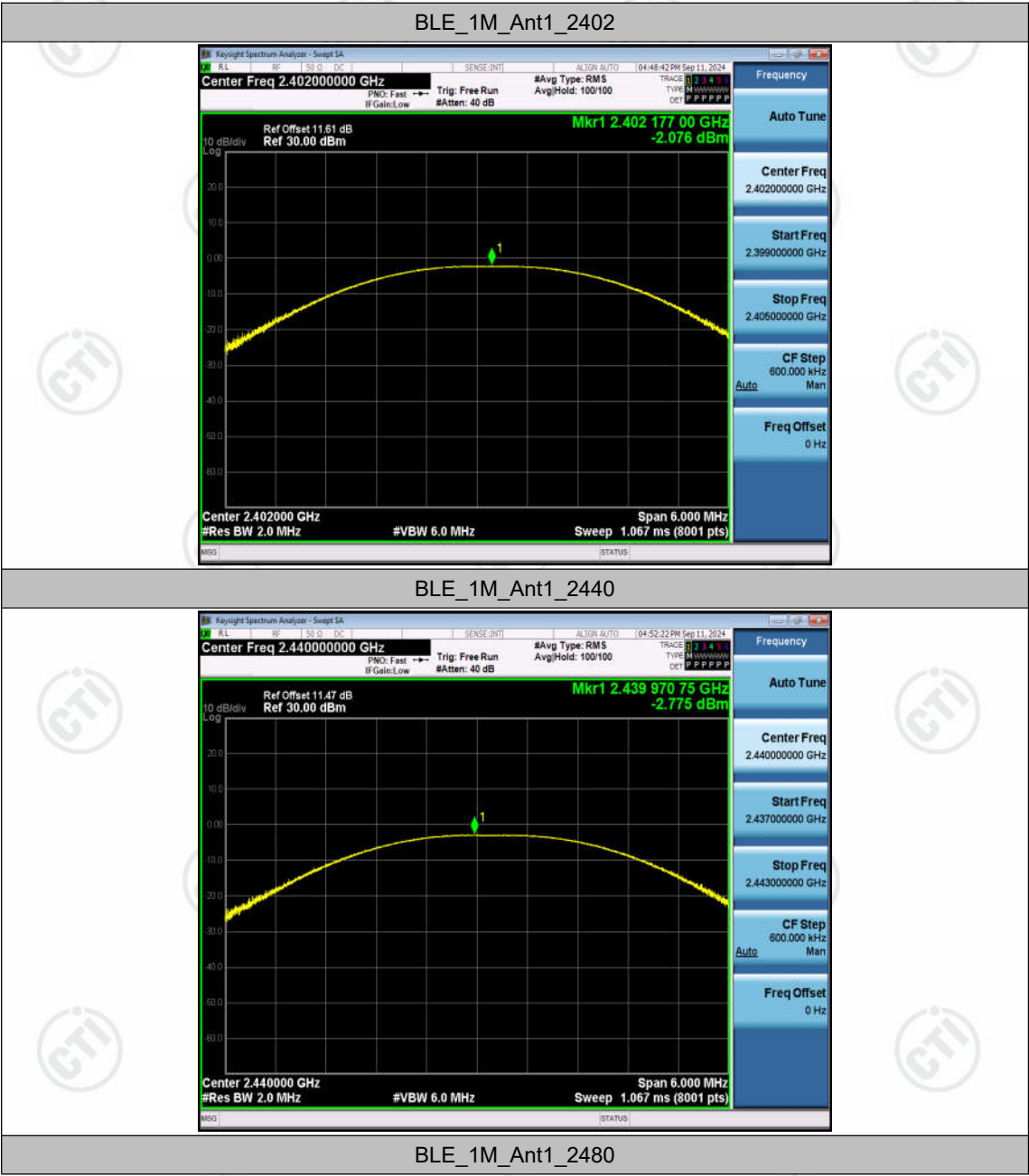
BLE_2M_Ant1_2480

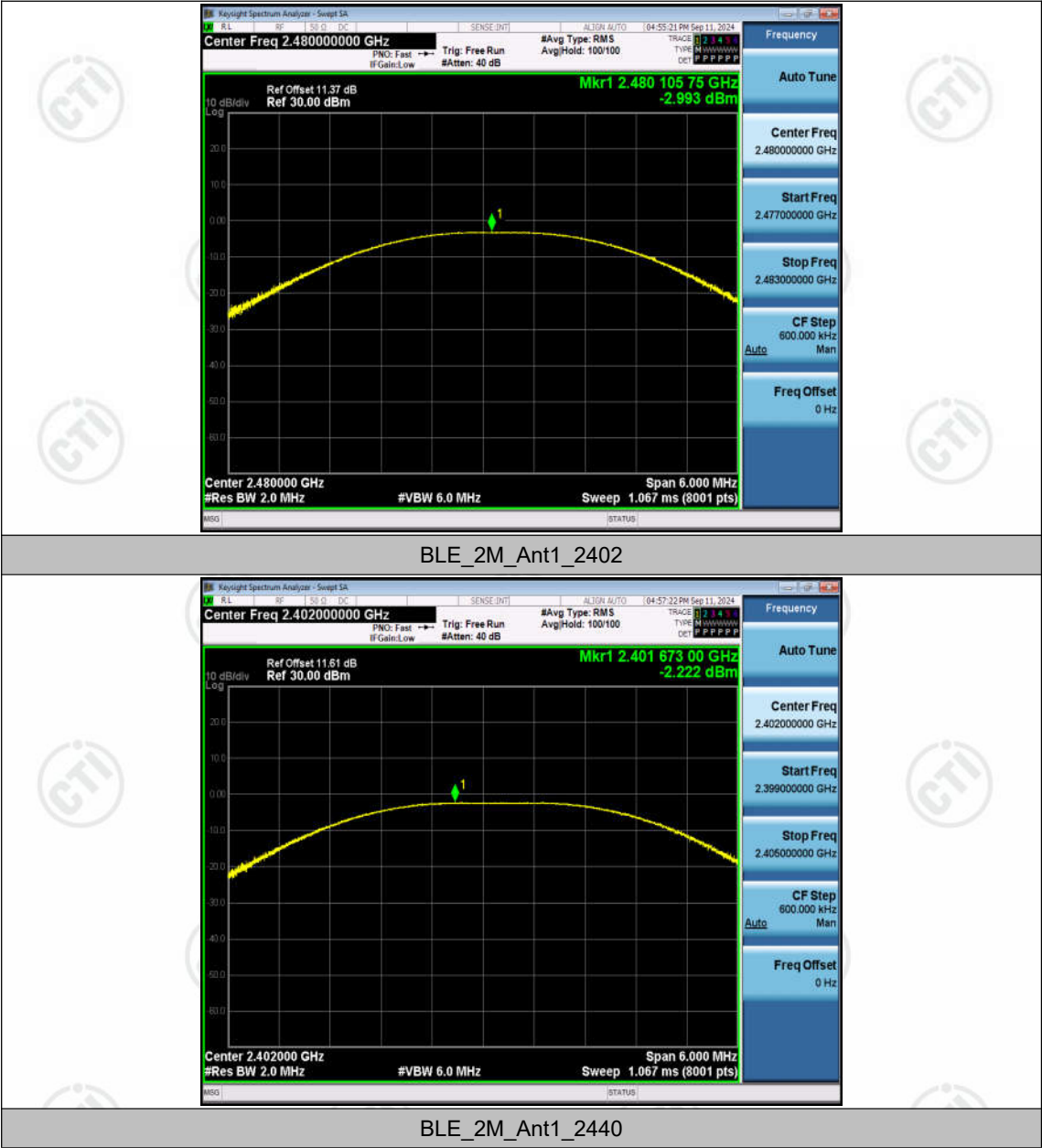
Appendix C: Maximum conducted output power

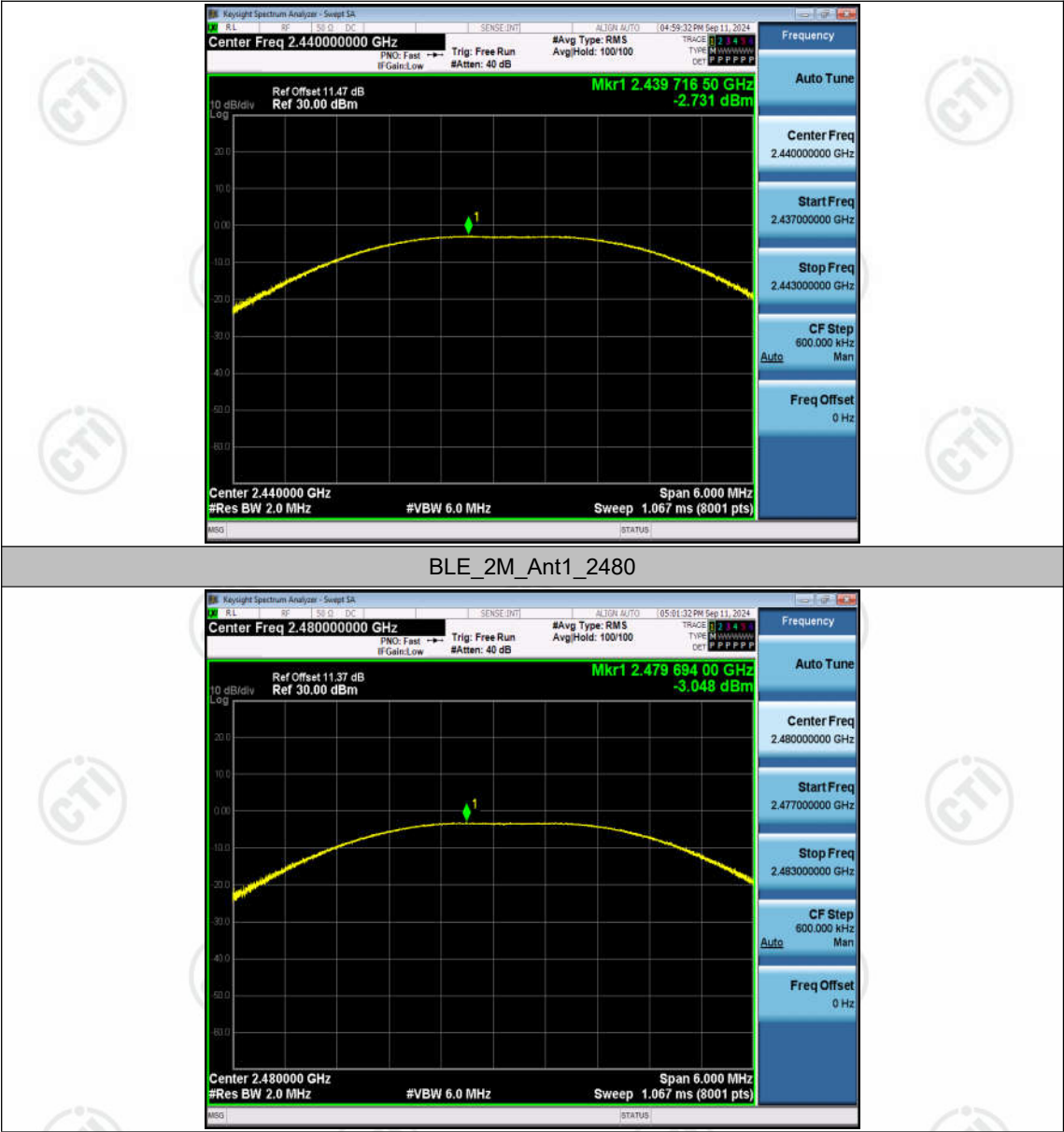
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.08	≤30	PASS
		2440	-2.78	≤30	PASS
		2480	-2.99	≤30	PASS
BLE_2M	Ant1	2402	-2.22	≤30	PASS
		2440	-2.73	≤30	PASS
		2480	-3.05	≤30	PASS

Test Graphs Peak





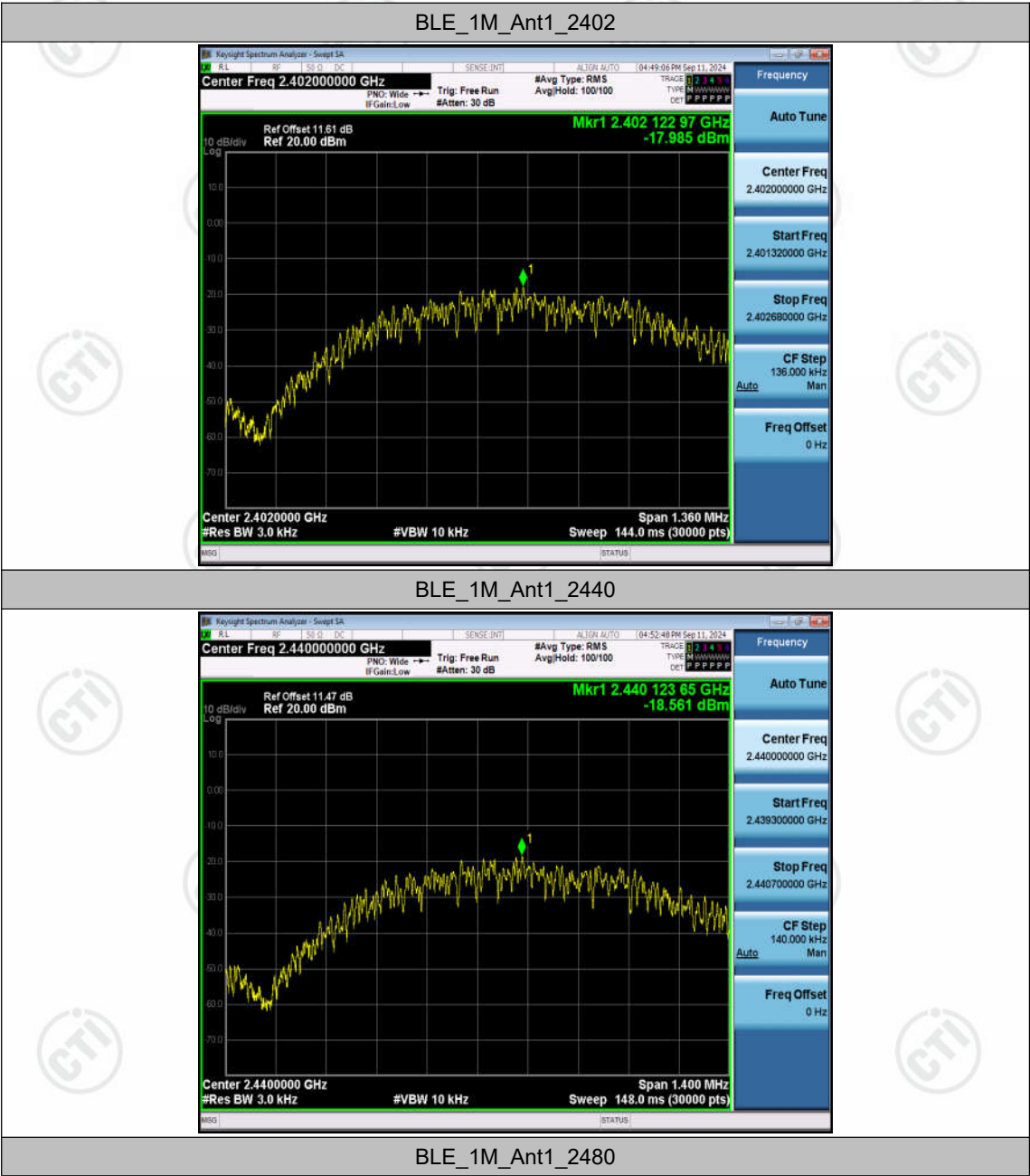


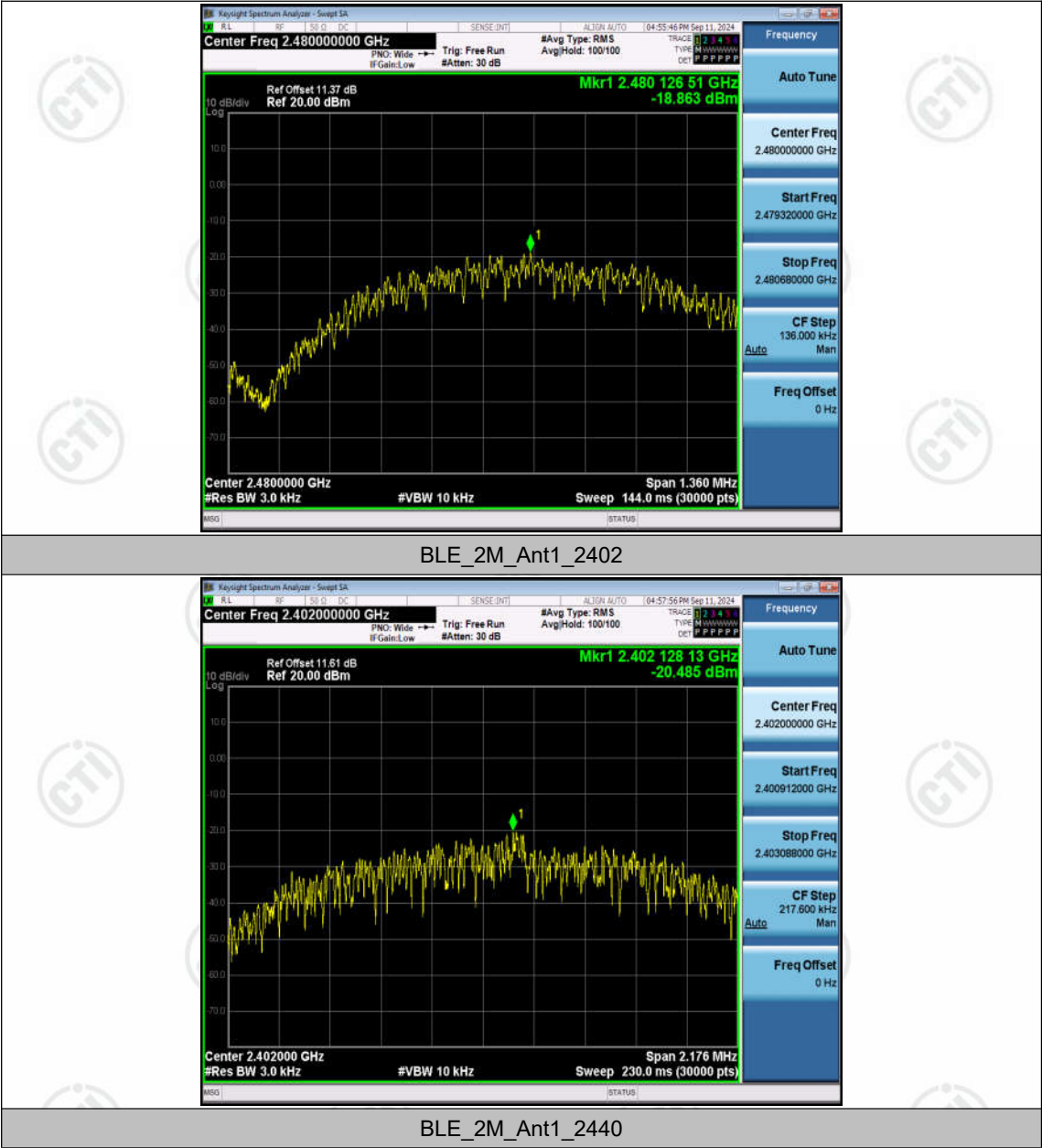
Appendix D: Maximum power spectral density

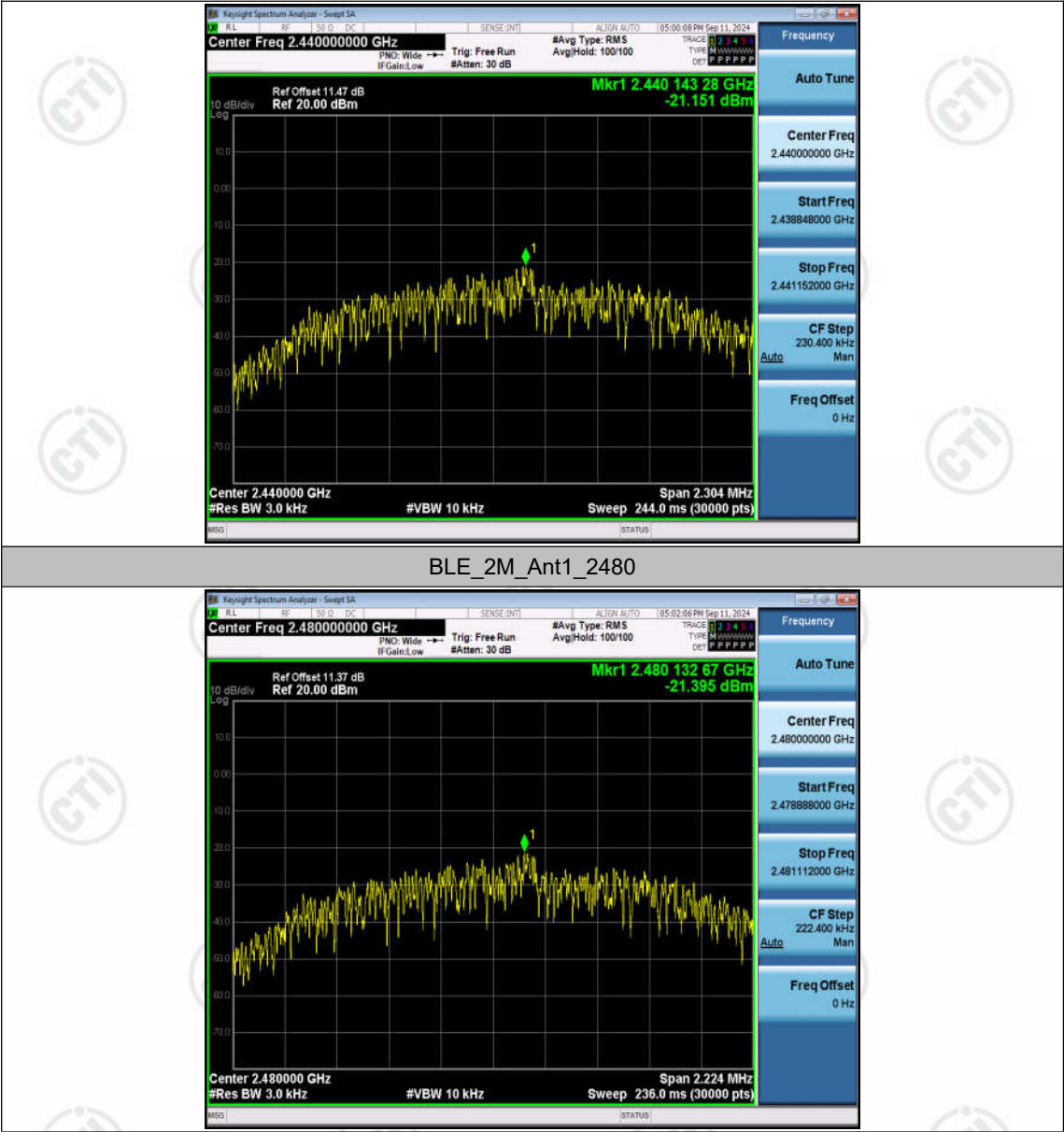
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.99	≤8.00	PASS
		2440	-18.56	≤8.00	PASS
		2480	-18.86	≤8.00	PASS
BLE_2M	Ant1	2402	-20.49	≤8.00	PASS
		2440	-21.15	≤8.00	PASS
		2480	-21.40	≤8.00	PASS

Test Graphs





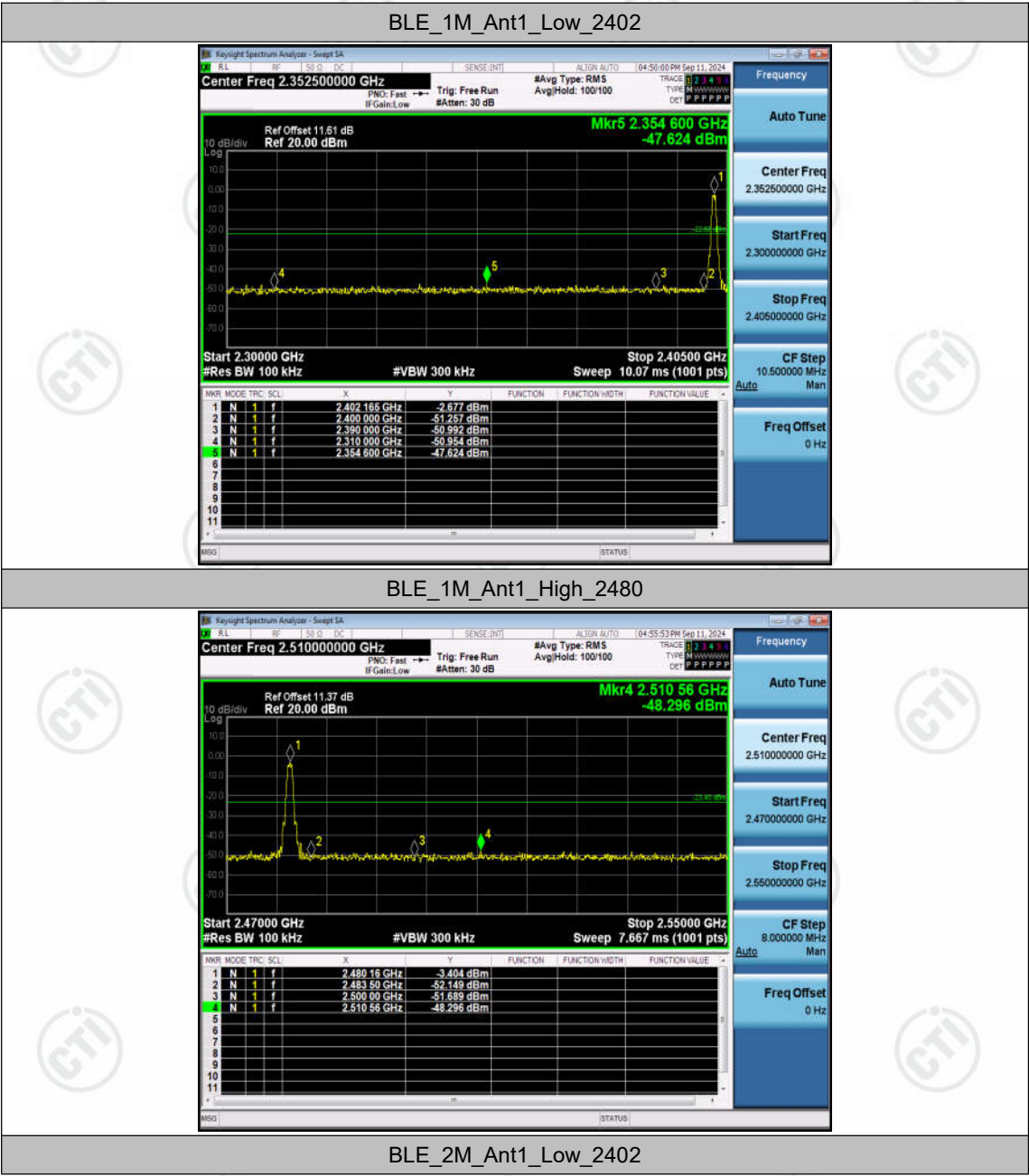


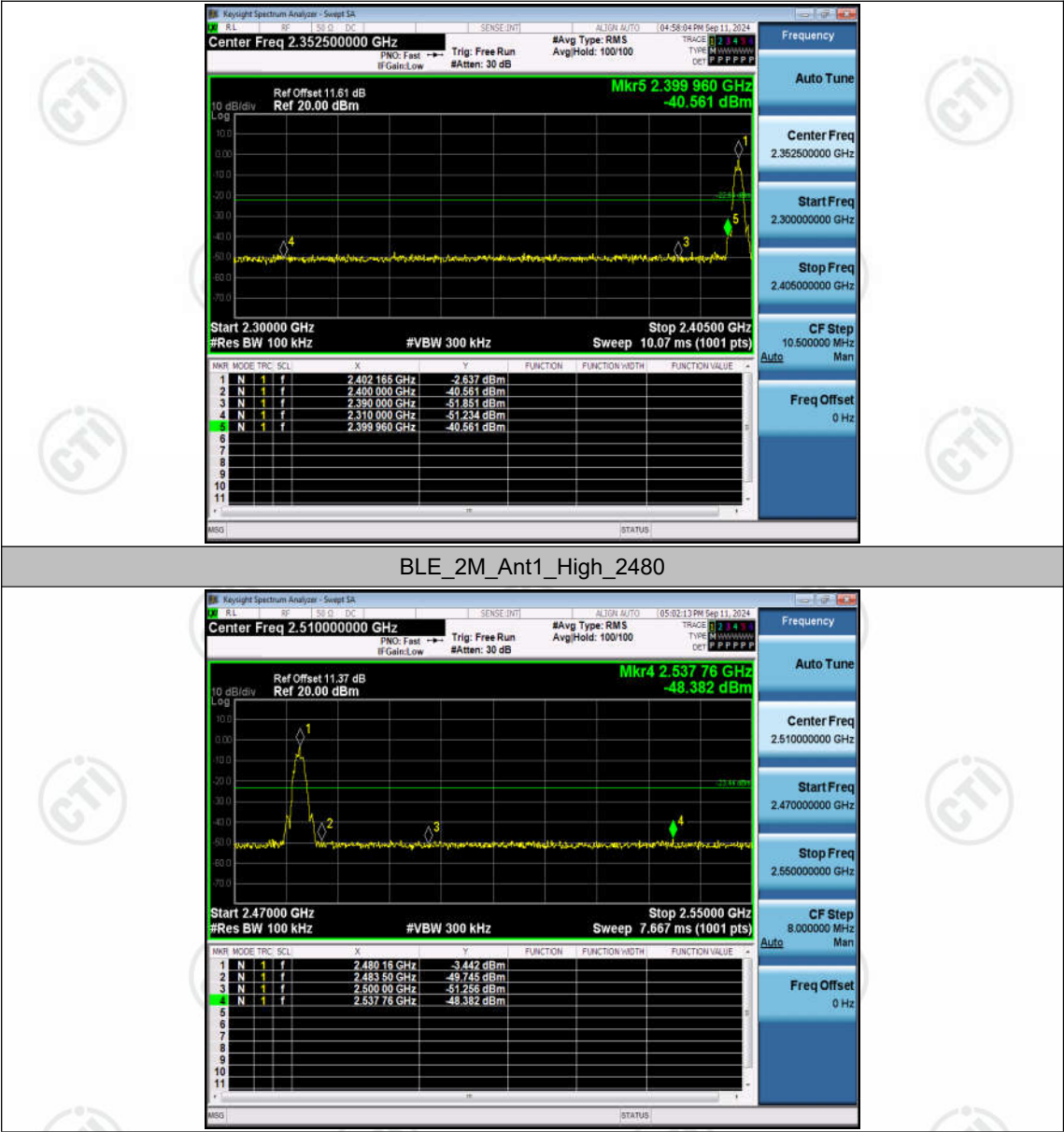
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.68	-47.62	≤-22.68	PASS
		High	2480	-3.40	-48.3	≤-23.4	PASS
BLE_2M	Ant1	Low	2402	-2.64	-40.56	≤-22.64	PASS
		High	2480	-3.44	-48.38	≤-23.44	PASS

Test Graphs



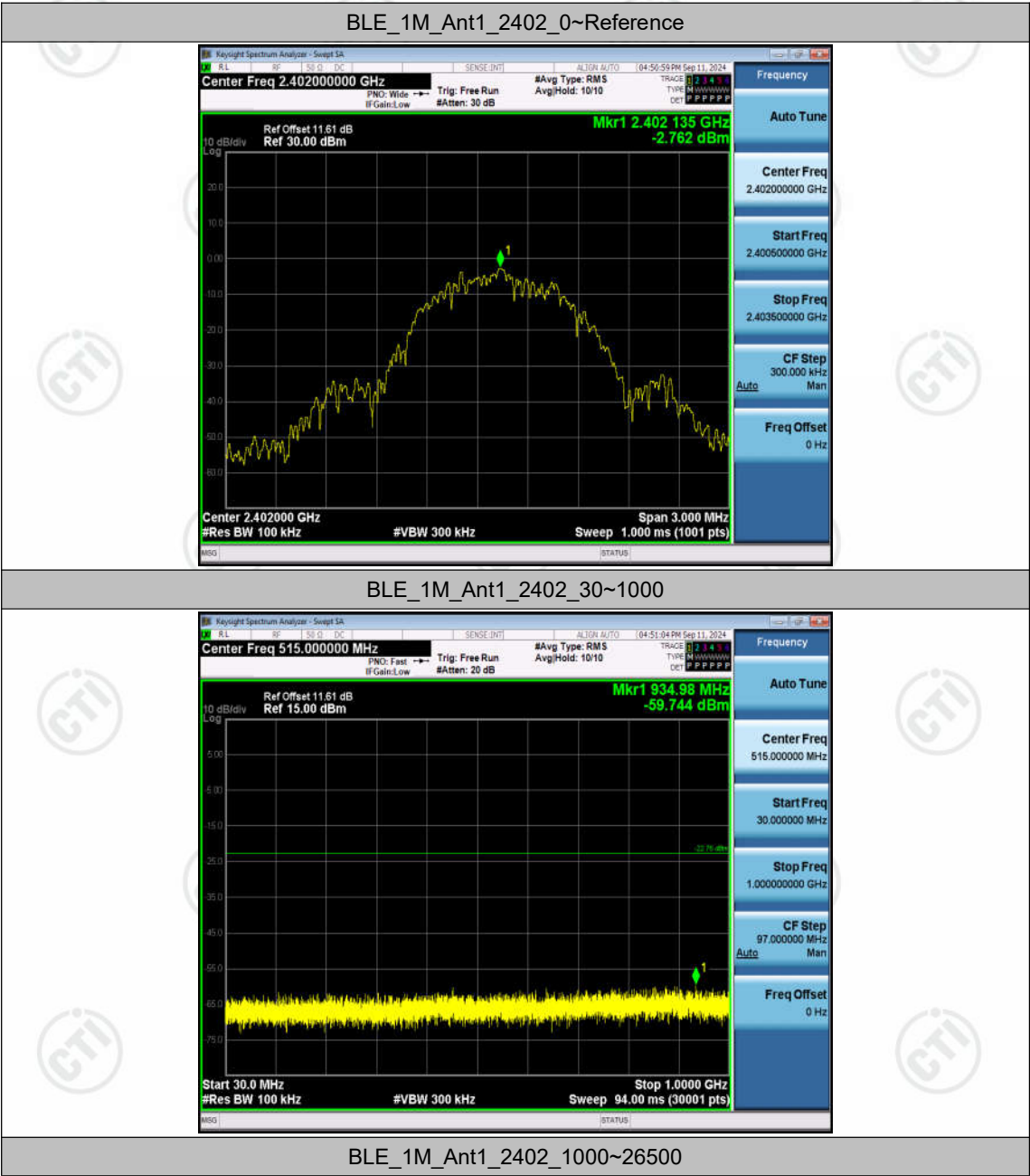


Appendix F: Conducted Spurious Emission

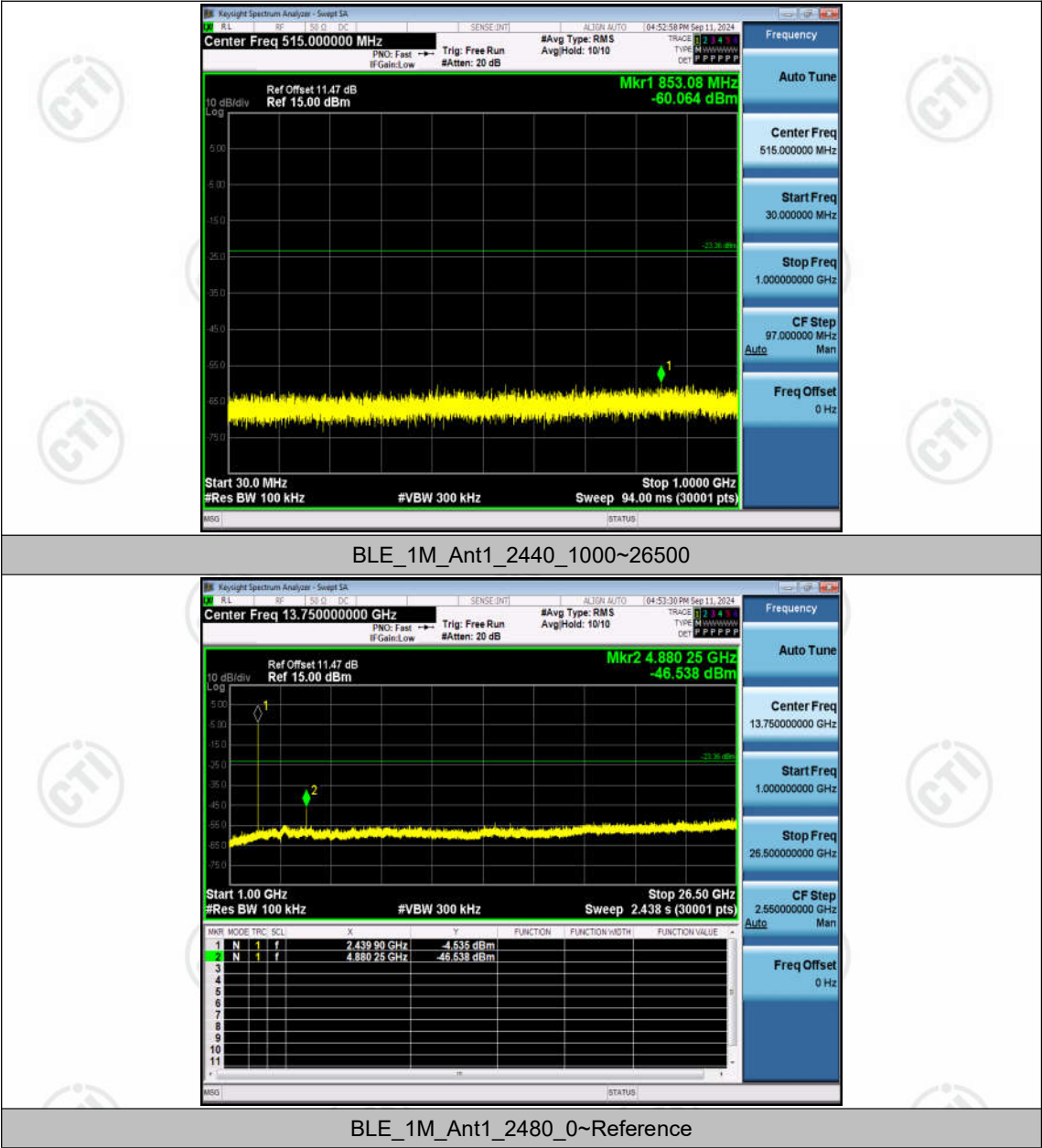
Test Result

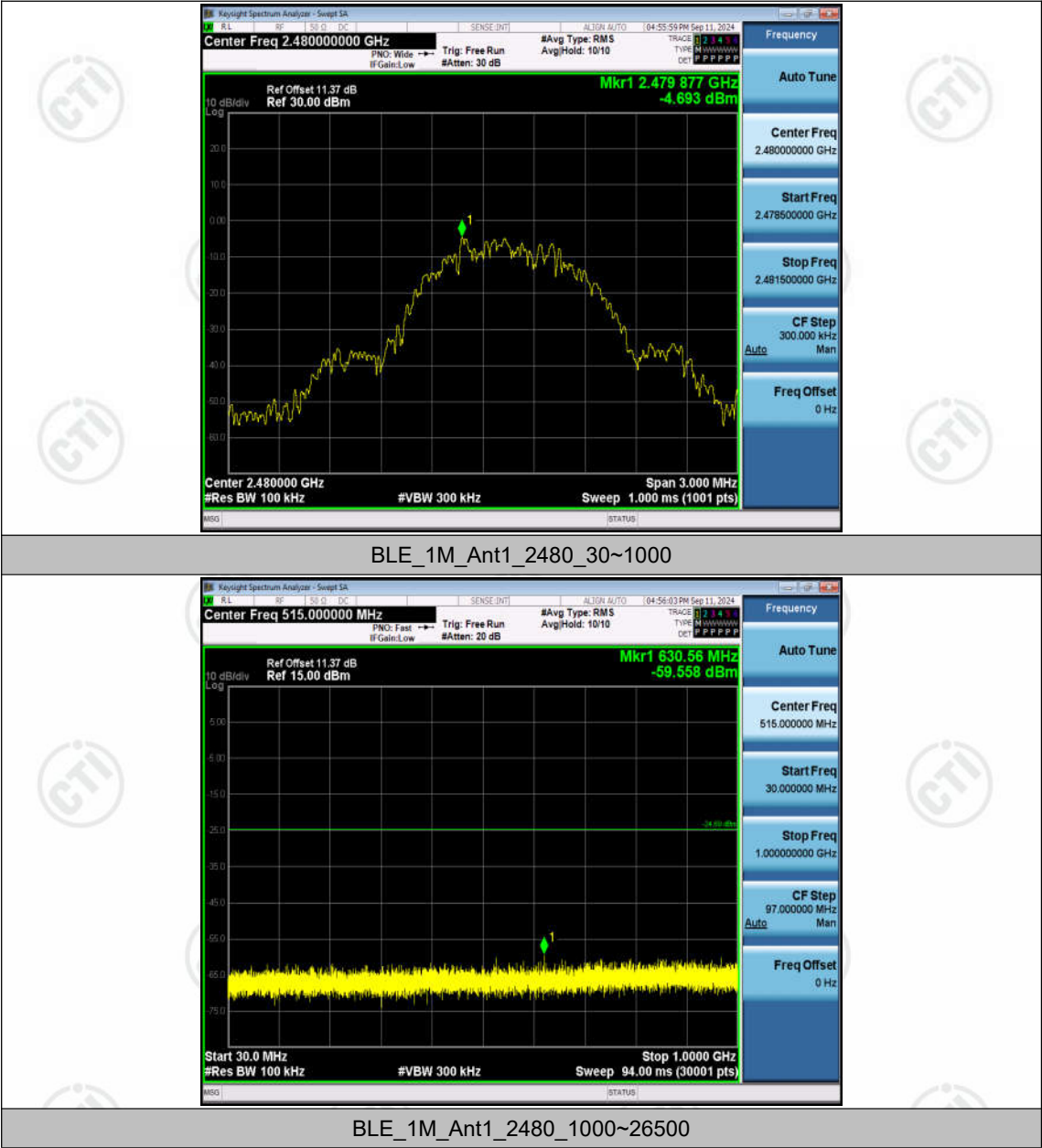
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.76	-2.76	---	PASS
			30~1000	-2.76	-59.74	≤-22.76	PASS
			1000~26500	-2.76	-49.97	≤-22.76	PASS
		2440	Reference	-3.36	-3.36	---	PASS
			30~1000	-3.36	-60.06	≤-23.36	PASS
			1000~26500	-3.36	-46.54	≤-23.36	PASS
		2480	Reference	-4.69	-4.69	---	PASS
			30~1000	-4.69	-59.56	≤-24.69	PASS
			1000~26500	-4.69	-46.14	≤-24.69	PASS
BLE_2M	Ant1	2402	Reference	-3.91	-3.91	---	PASS
			30~1000	-3.91	-58.21	≤-23.91	PASS
			1000~26500	-3.91	-51.43	≤-23.91	PASS
		2440	Reference	-3.32	-3.32	---	PASS
			30~1000	-3.32	-59.98	≤-23.32	PASS
			1000~26500	-3.32	-47.13	≤-23.32	PASS
		2480	Reference	-4.00	-4.00	---	PASS
			30~1000	-4.00	-59.54	≤-24	PASS
			1000~26500	-4.00	-50.81	≤-24	PASS

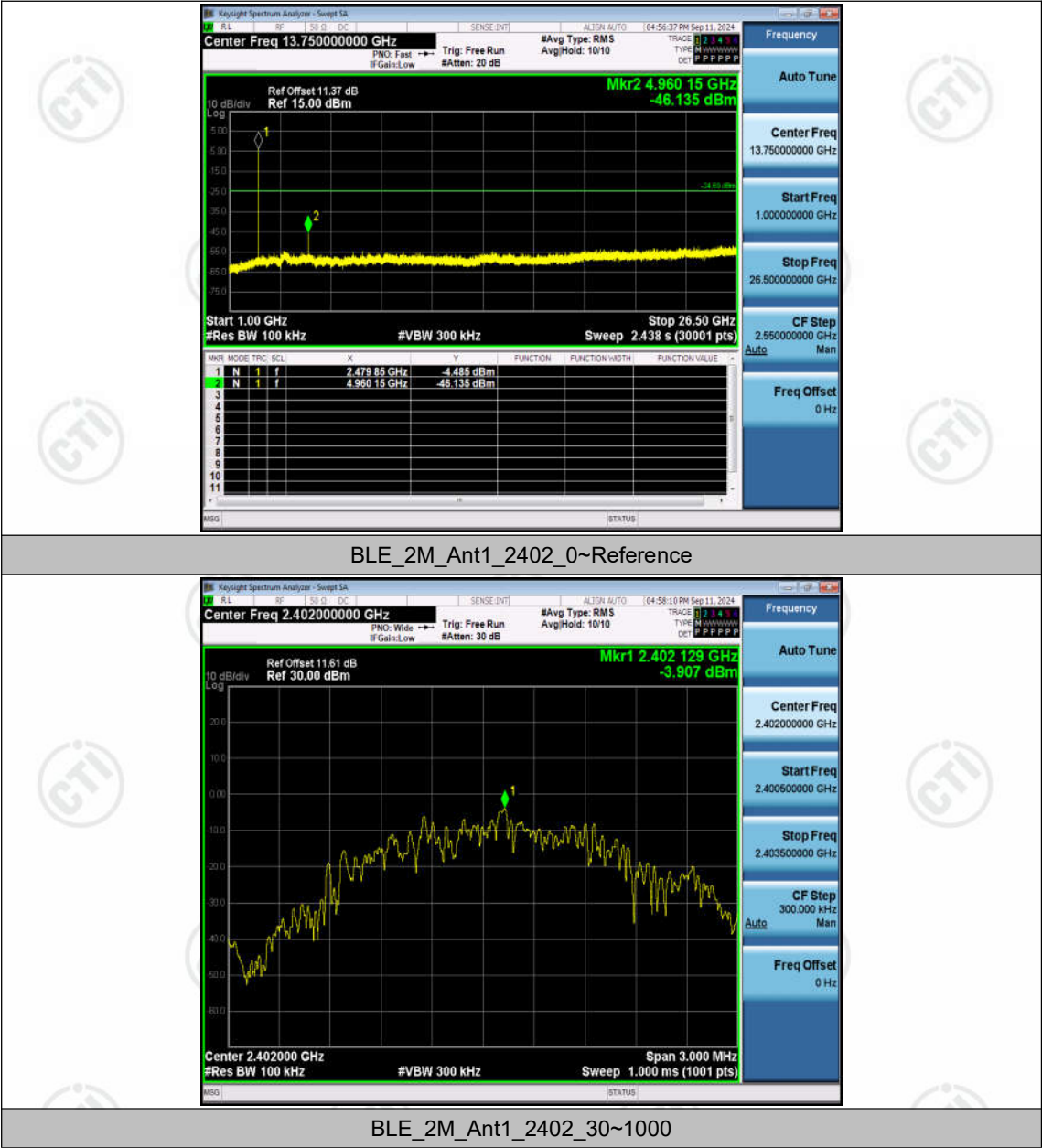
Test Graphs

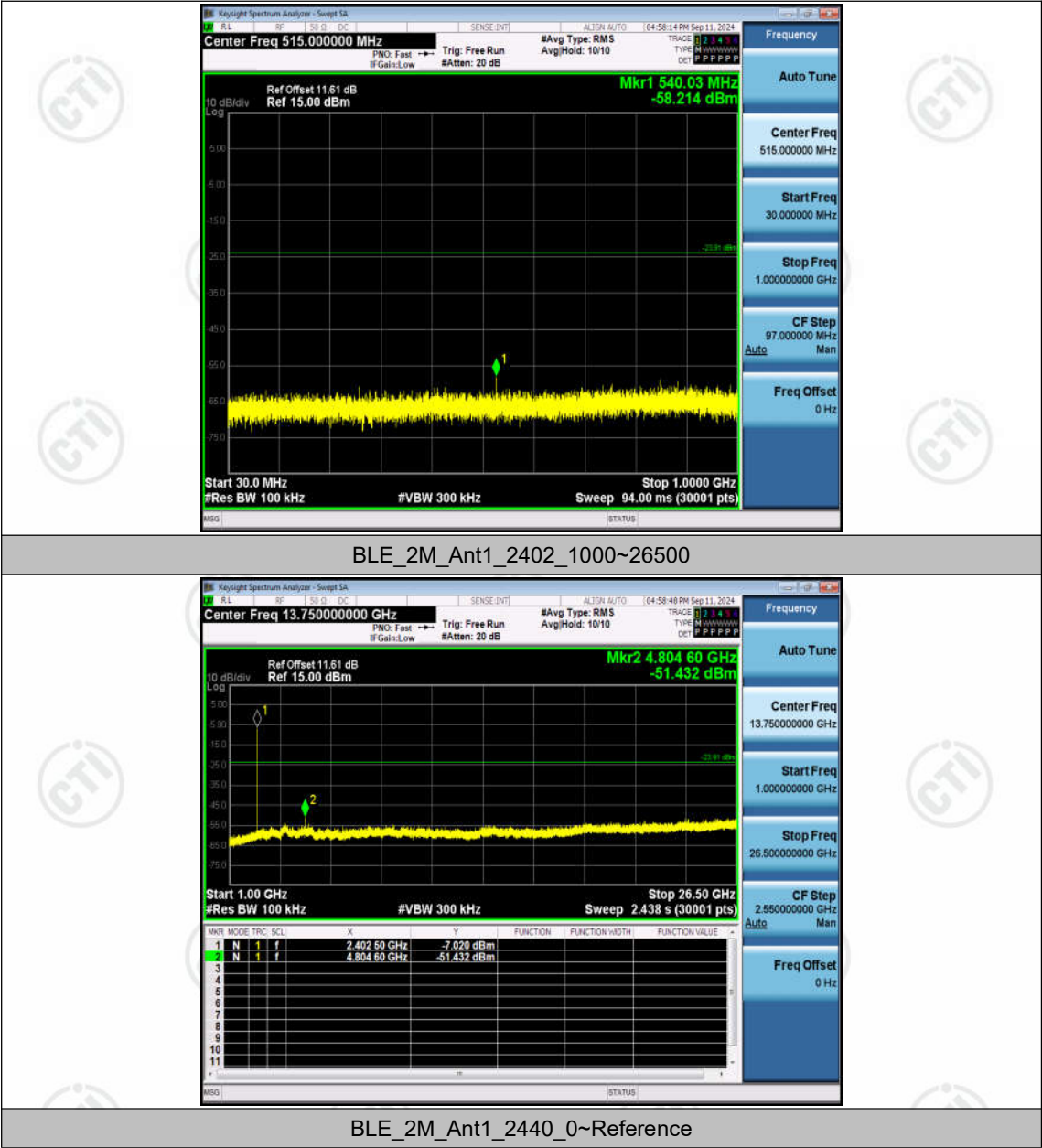


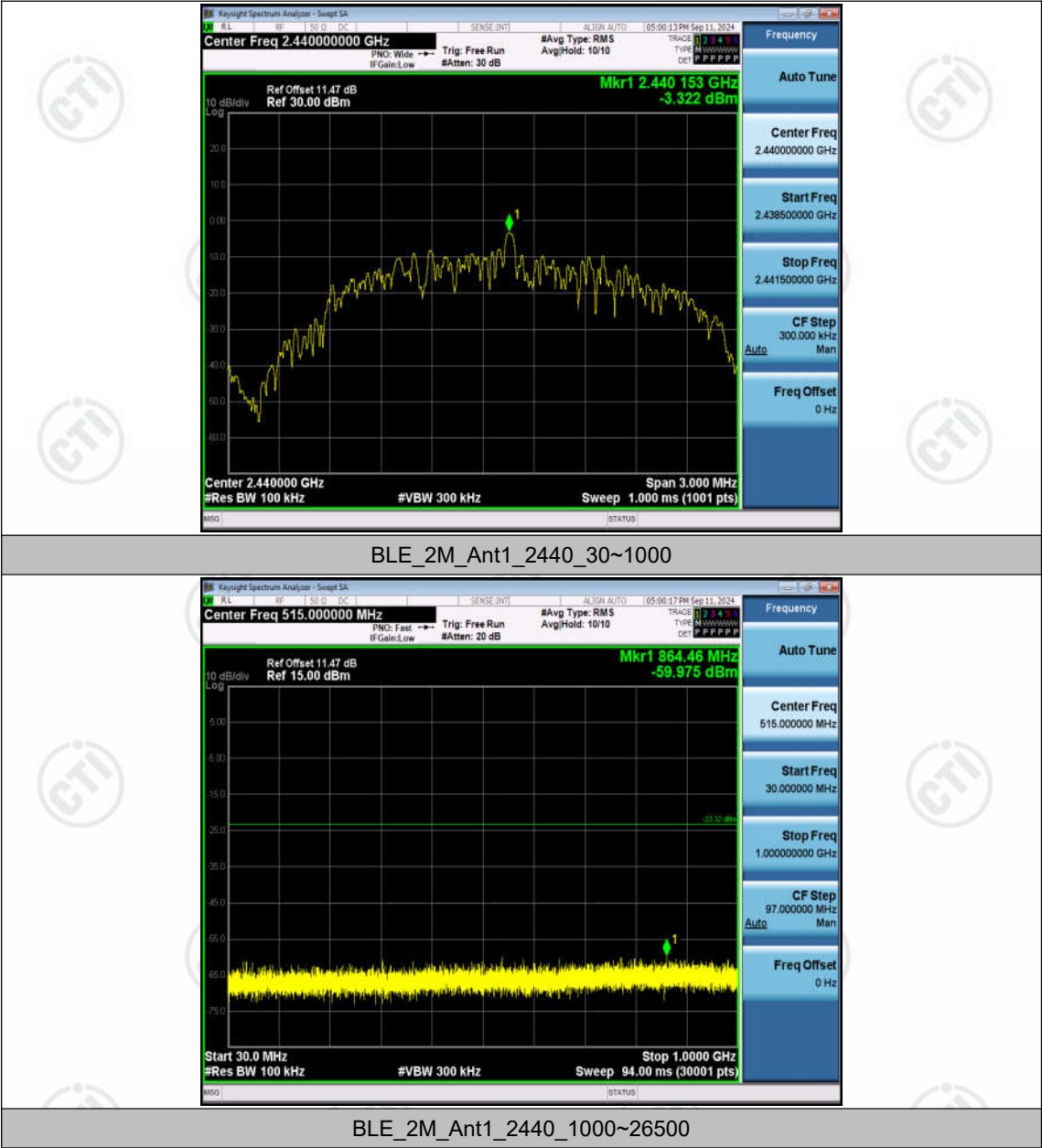


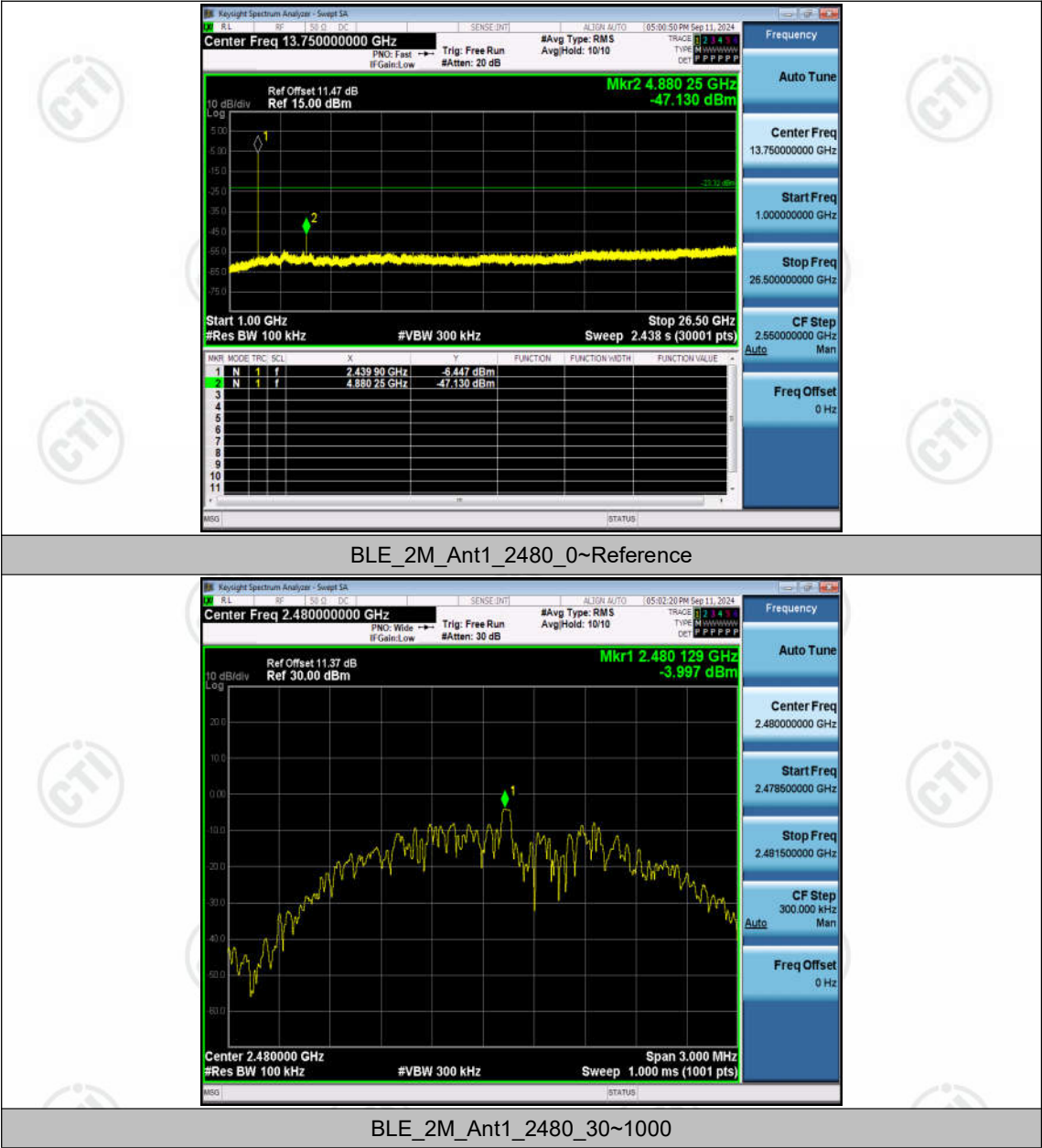


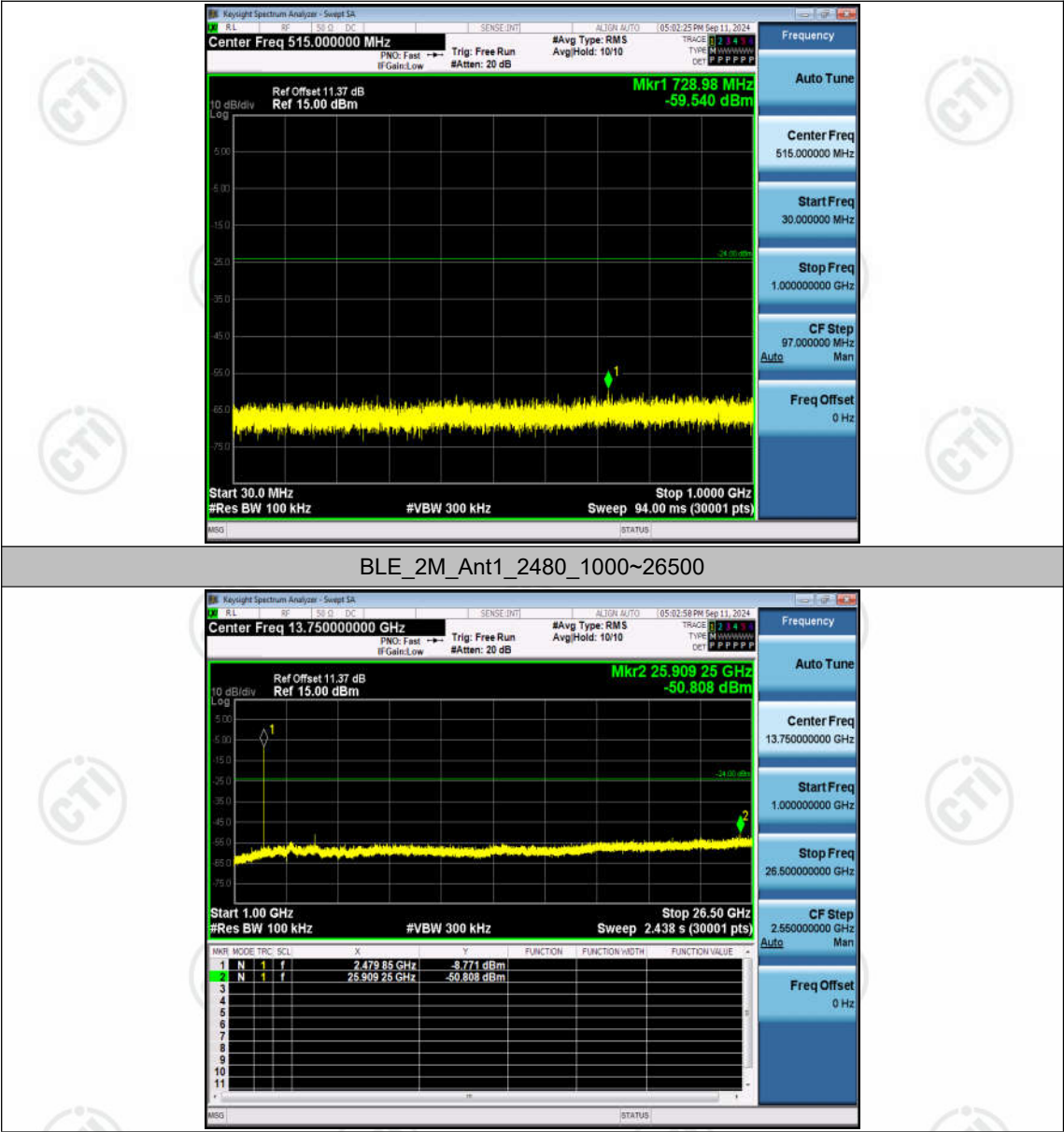










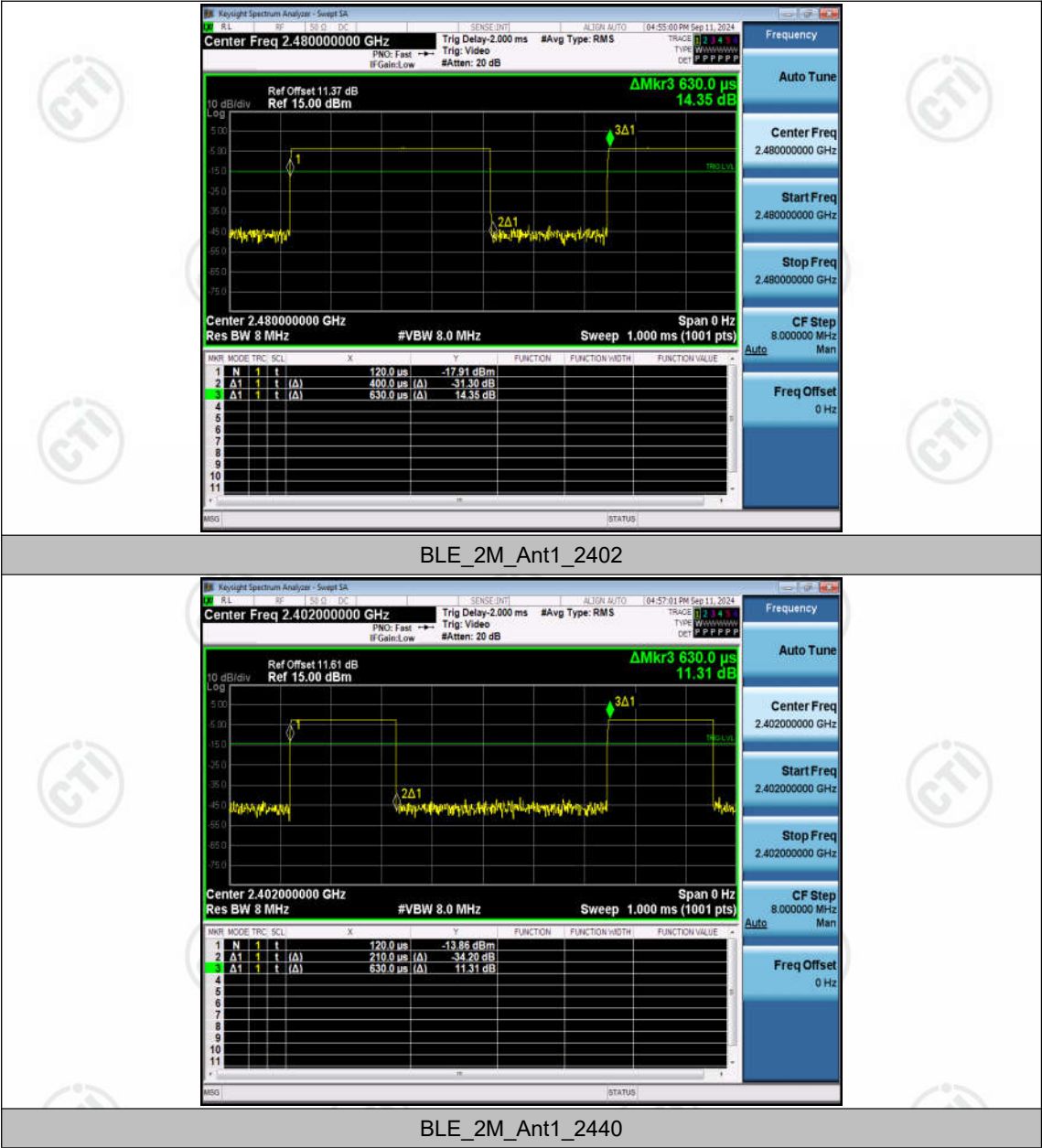


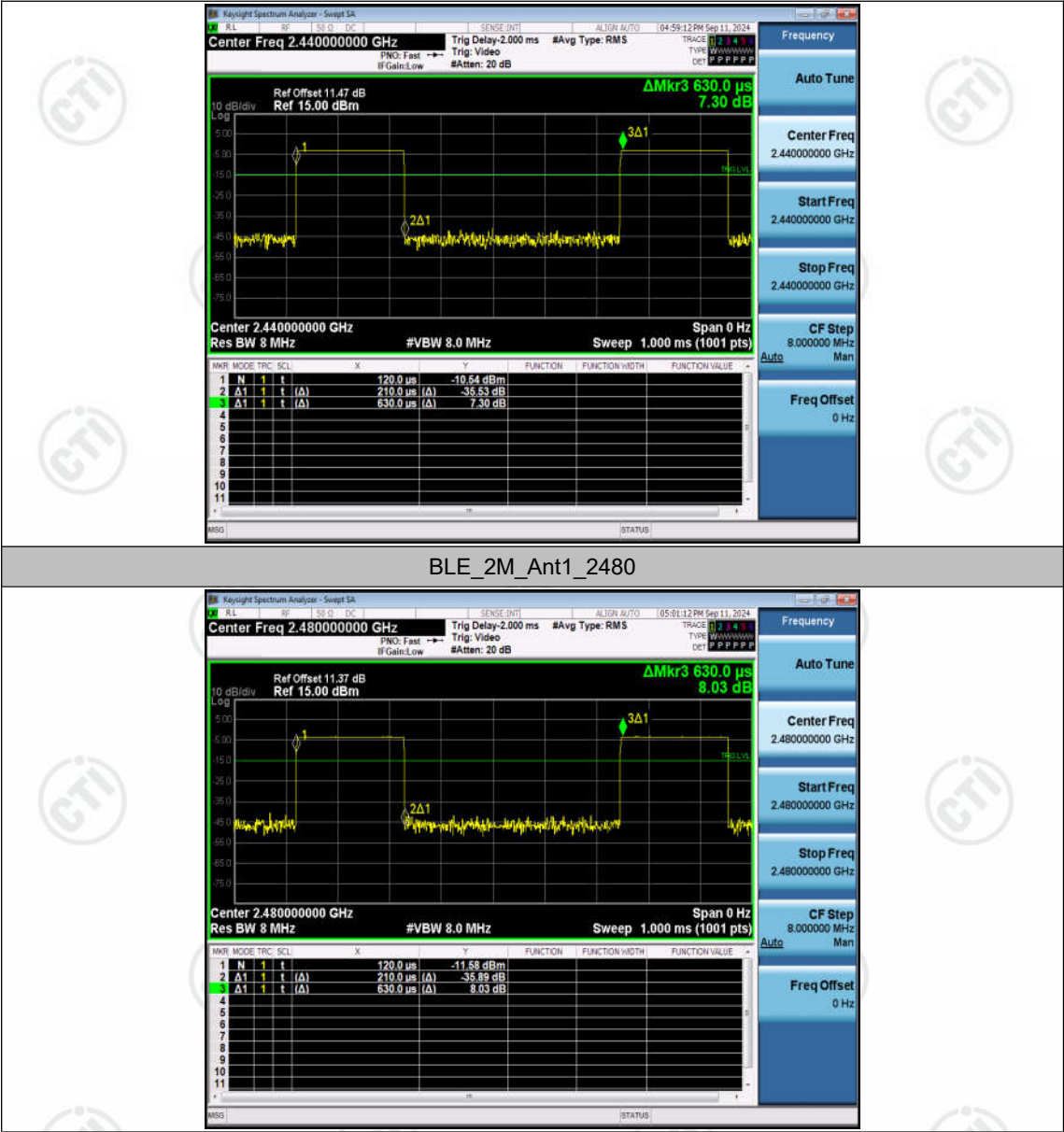
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.01
		2440	0.40	0.63	63.49	1.97
		2480	0.40	0.63	63.49	1.97
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77

Note:Duty CycleFactor[dB]=-10*Ig(Duty Cycle);





END OF REPORT