

FCC Appendix RF Test Data for BLE

FCC ID : 2AXCX-NT809BT

Company : Shenzhen Foxwell Technology Co., Ltd

EUT : Automotive Diagnostic System

Model Number : NT809BT

Report No. : CTA25091901001

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.636	2401.692	2402.328	0.5	PASS
		2440	0.656	2439.680	2440.336	0.5	PASS
		2480	0.656	2479.684	2480.340	0.5	PASS

Test Graphs



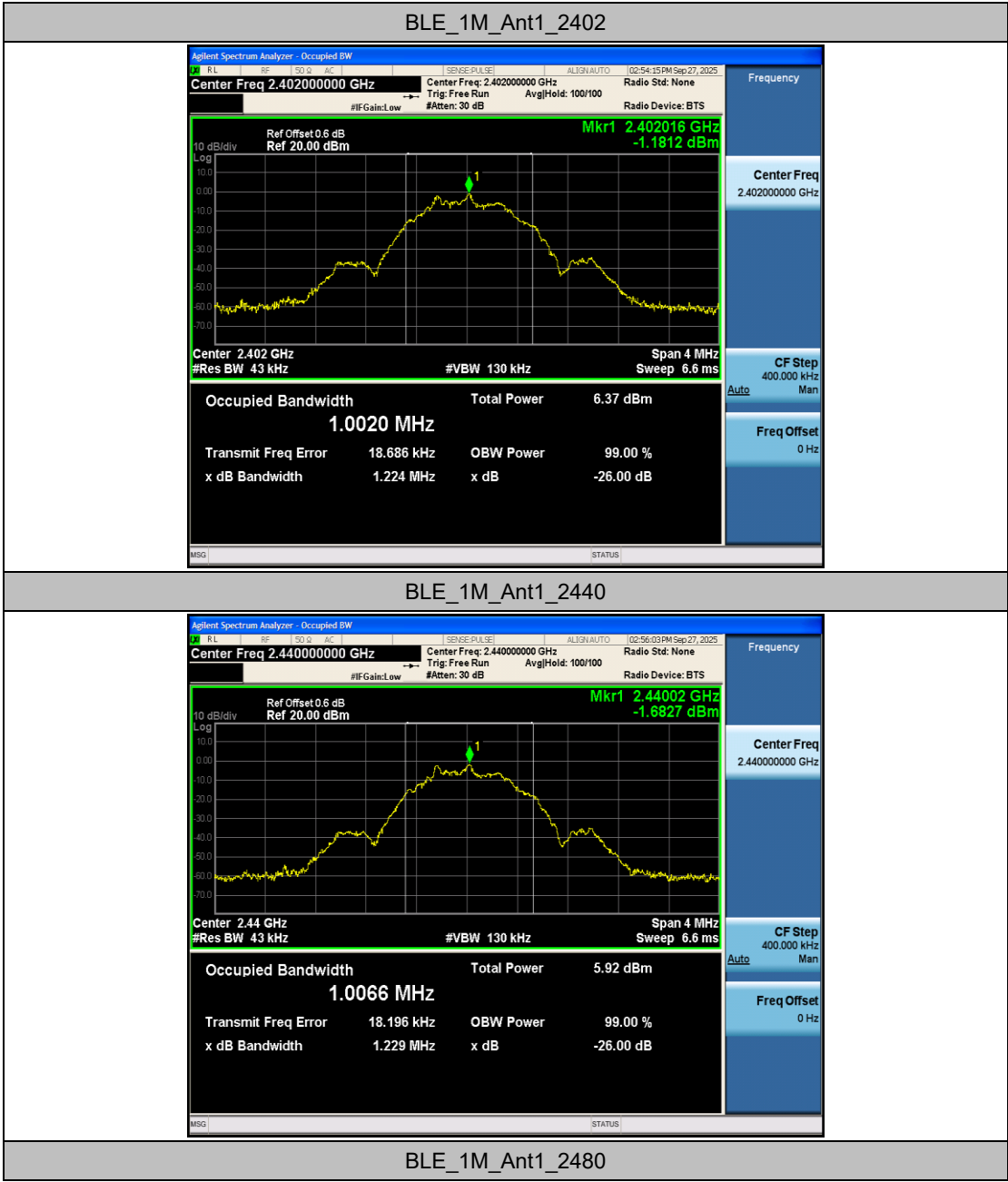


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0020	2401.5177	2402.5197	---	---
		2440	1.0066	2439.5149	2440.5215	---	---
		2480	1.0000	2479.5198	2480.5198	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

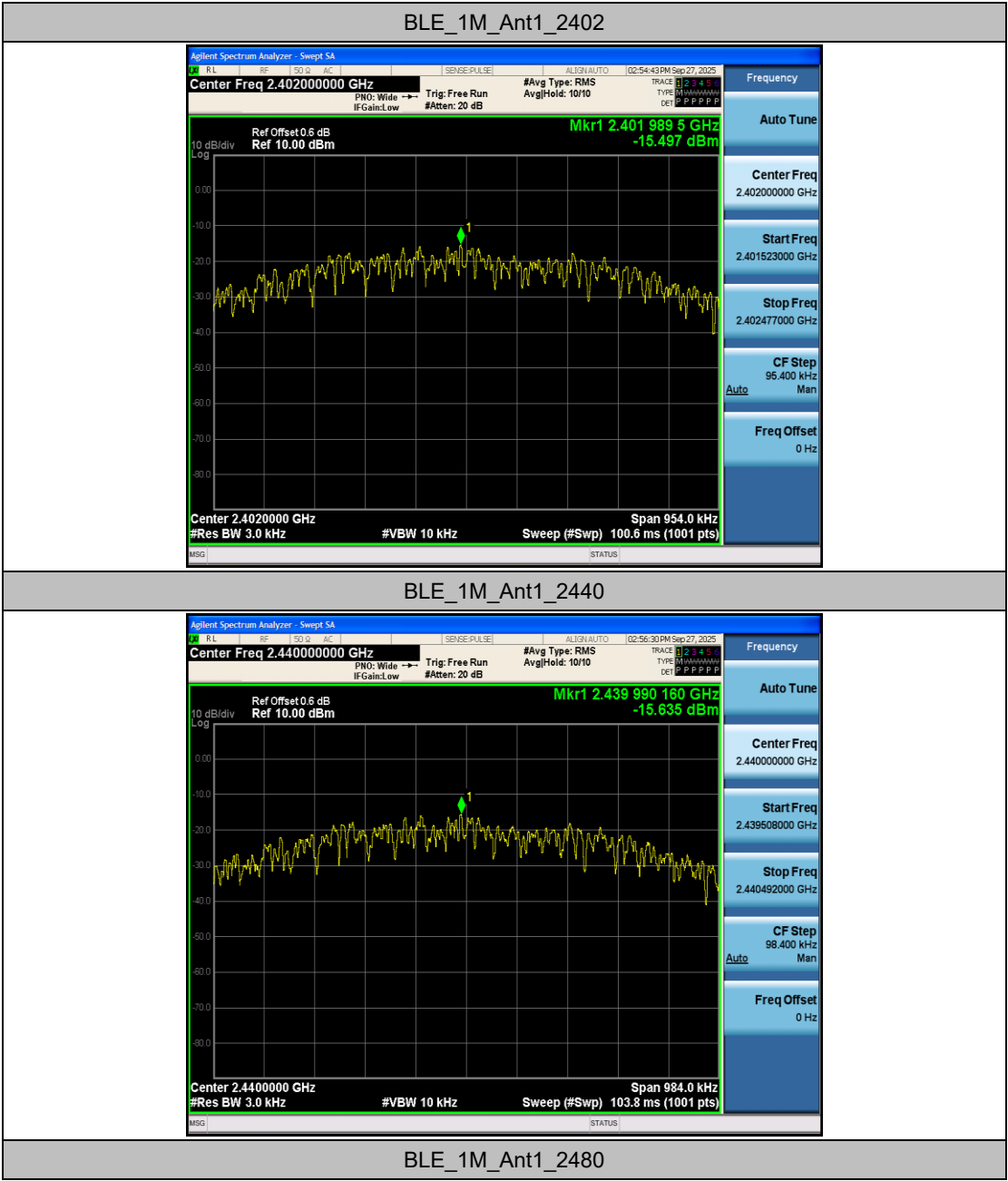
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.13	≤30	PASS
		2440	-0.22	≤30	PASS
		2480	-0.24	≤30	PASS

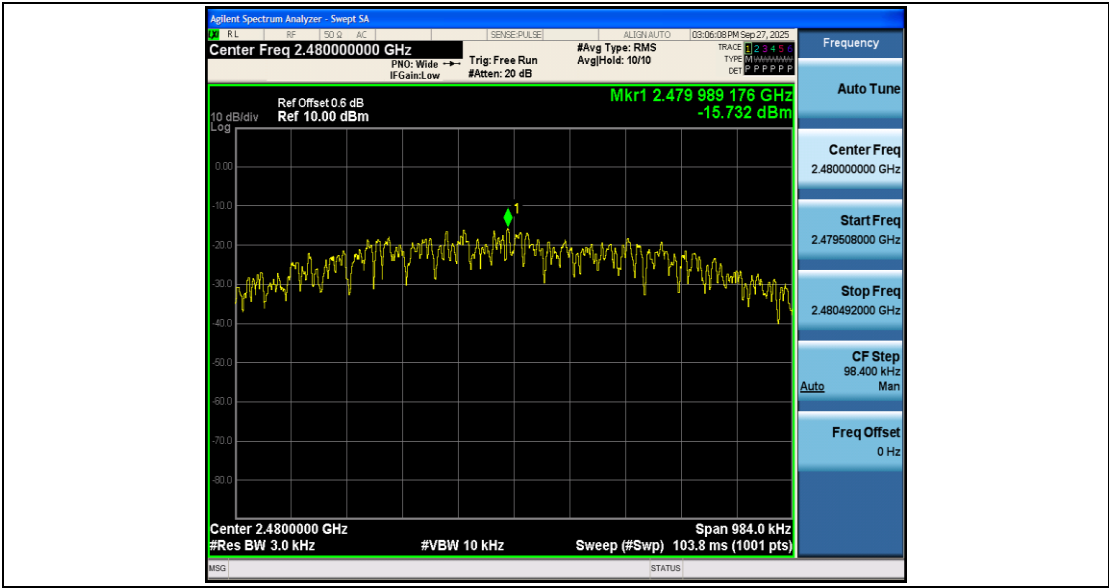
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.50	≤8.00	PASS
		2440	-15.64	≤8.00	PASS
		2480	-15.73	≤8.00	PASS

Test Graphs



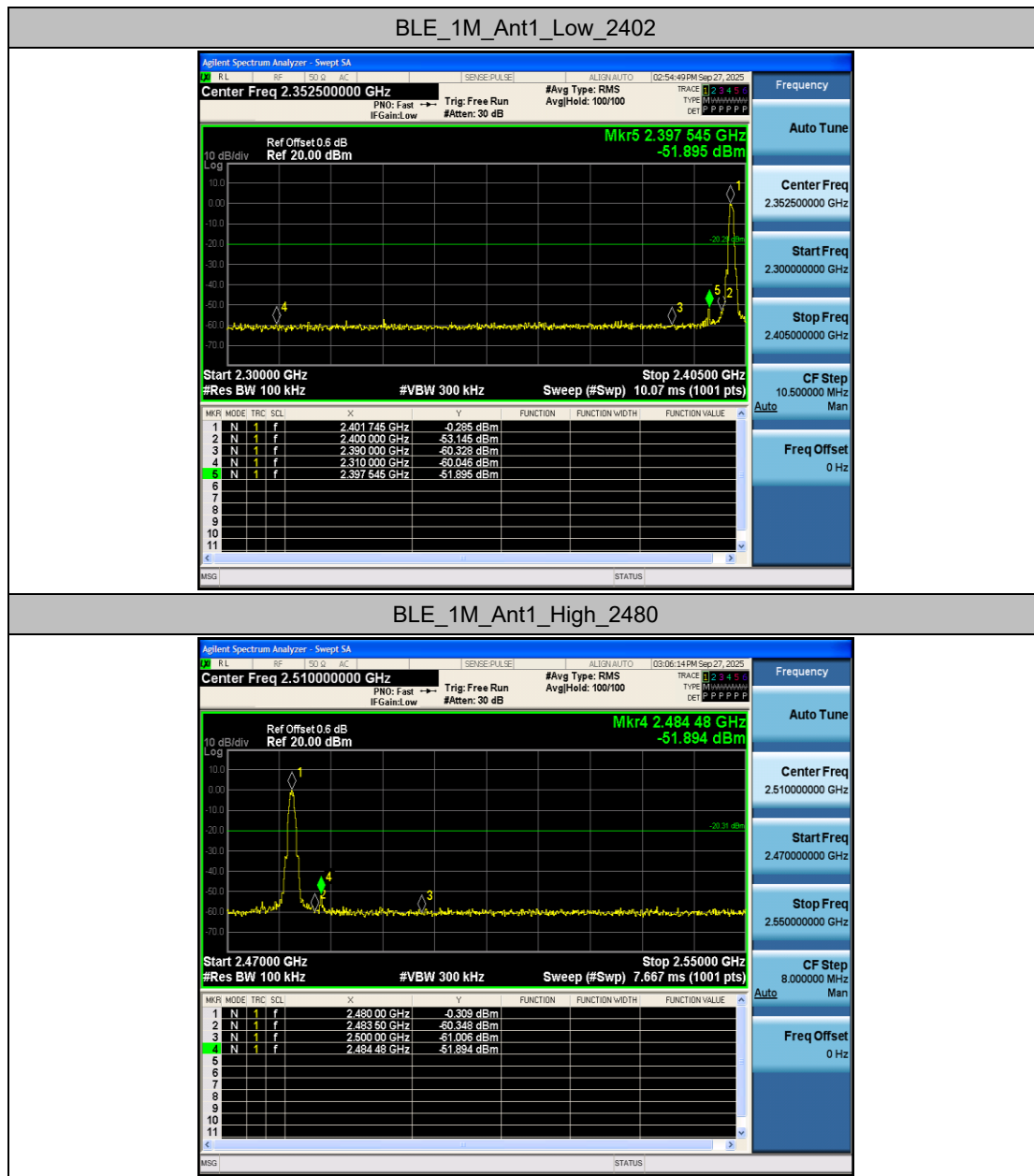


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-0.29	-51.9	≤-20.29	PASS
		High	2480	-0.31	-51.89	≤-20.31	PASS

Test Graphs

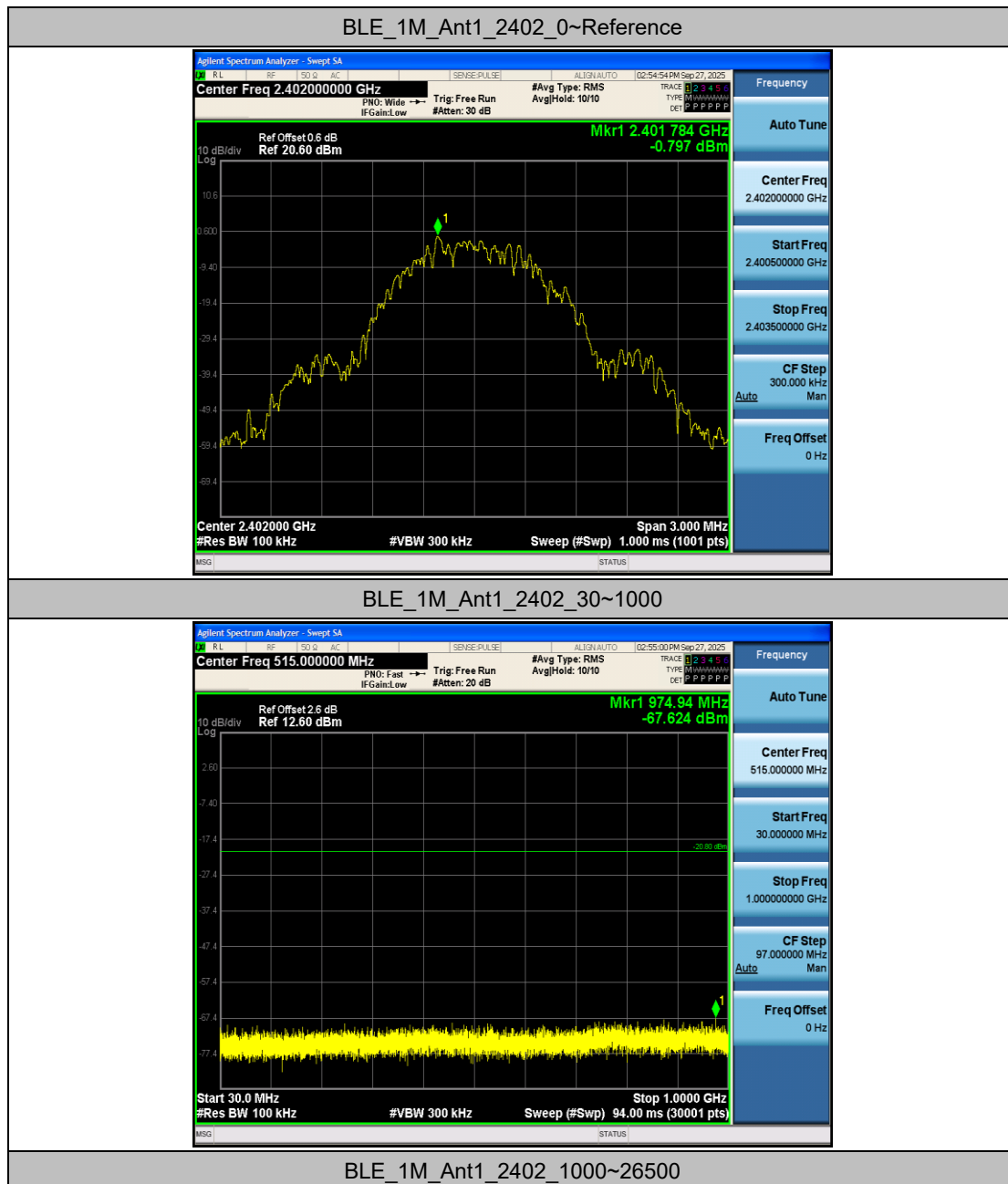


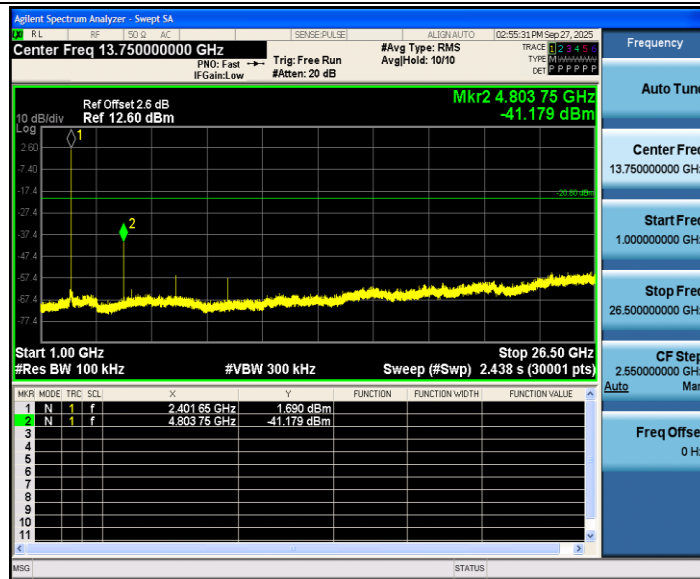
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-67.62	≤-20.8	PASS
			1000~26500	-0.80	-41.18	≤-20.8	PASS
		2440	Reference	-1.01	-1.01	---	PASS
			30~1000	-1.01	-67.81	≤-21.01	PASS
			1000~26500	-1.01	-42.57	≤-21.01	PASS
		2480	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-67.29	≤-20.89	PASS
			1000~26500	-0.89	-46.02	≤-20.89	PASS

Test Graphs

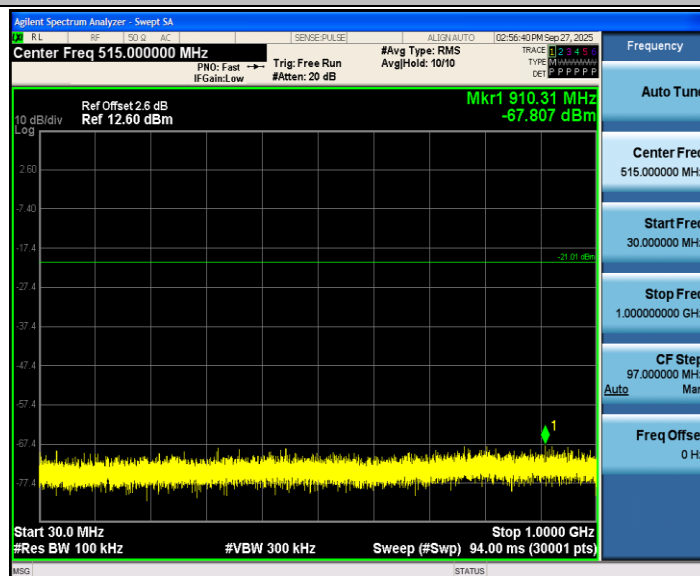




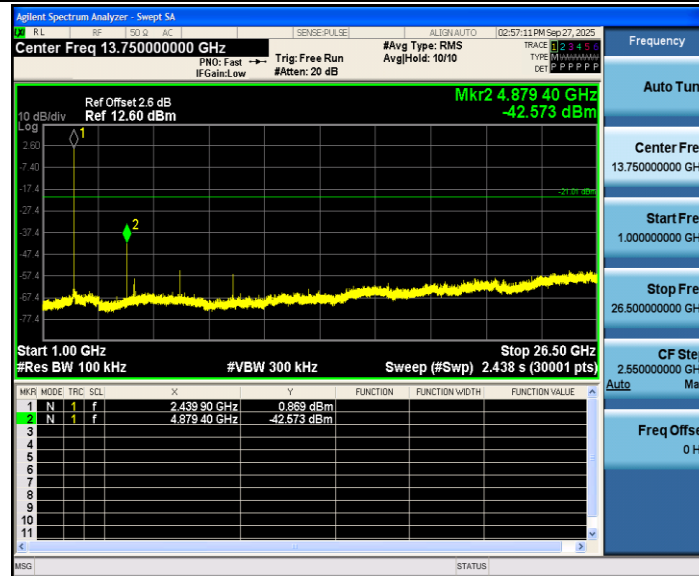
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



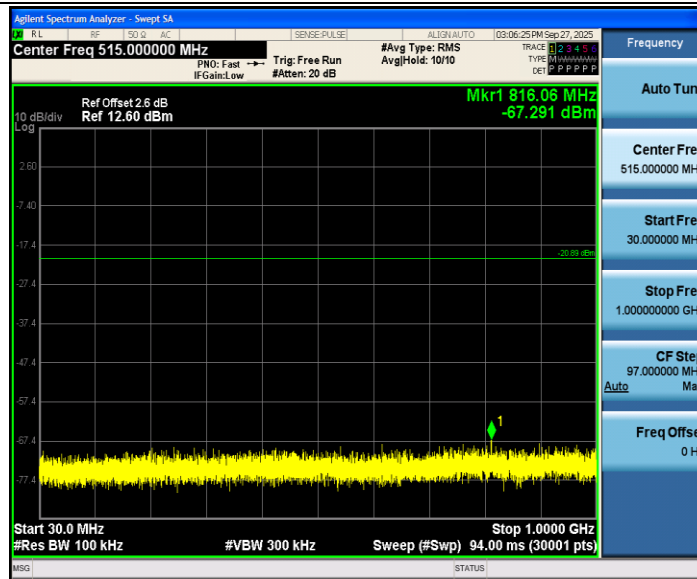
BLE_1M_Ant1_2440_1000~26500



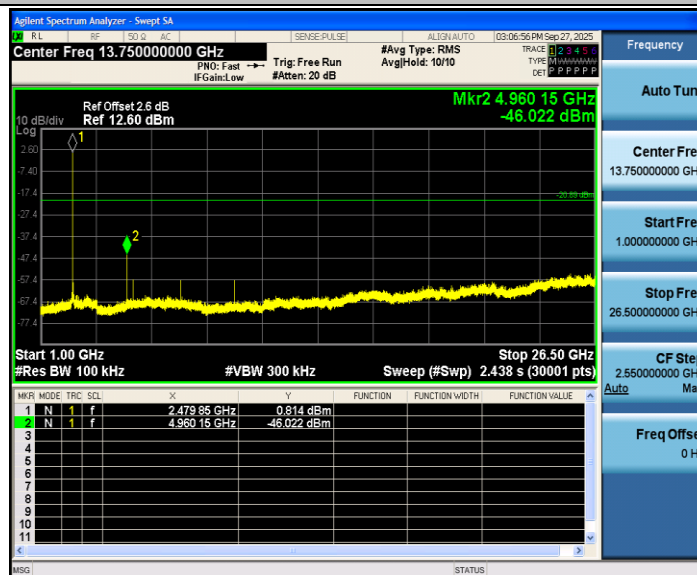
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.62	0.6613	66.13	1.80	---	---
		2440	0.41	0.62	0.6613	66.13	1.80	---	---
		2480	0.41	0.62	0.6613	66.13	1.80	---	---

Test Graphs

