

FCC Appendix RF Test Data

FCC ID : 2BP5V-ZK101

Company : Dong Guan Zhen Ke Technology Co., LTD

EUT : Weather Station

Model Number : SA6

Report No. : CTA25052800101

Reviewed By : Eric Wang

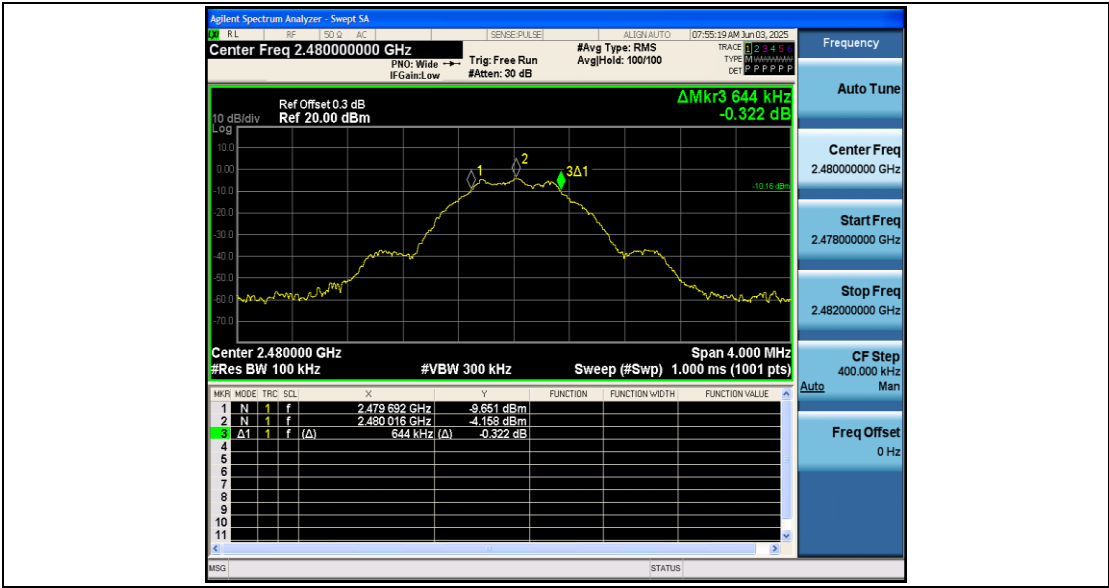
Appendix A: DTS Bandwidth

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	0.636	2439.696	2440.332	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs



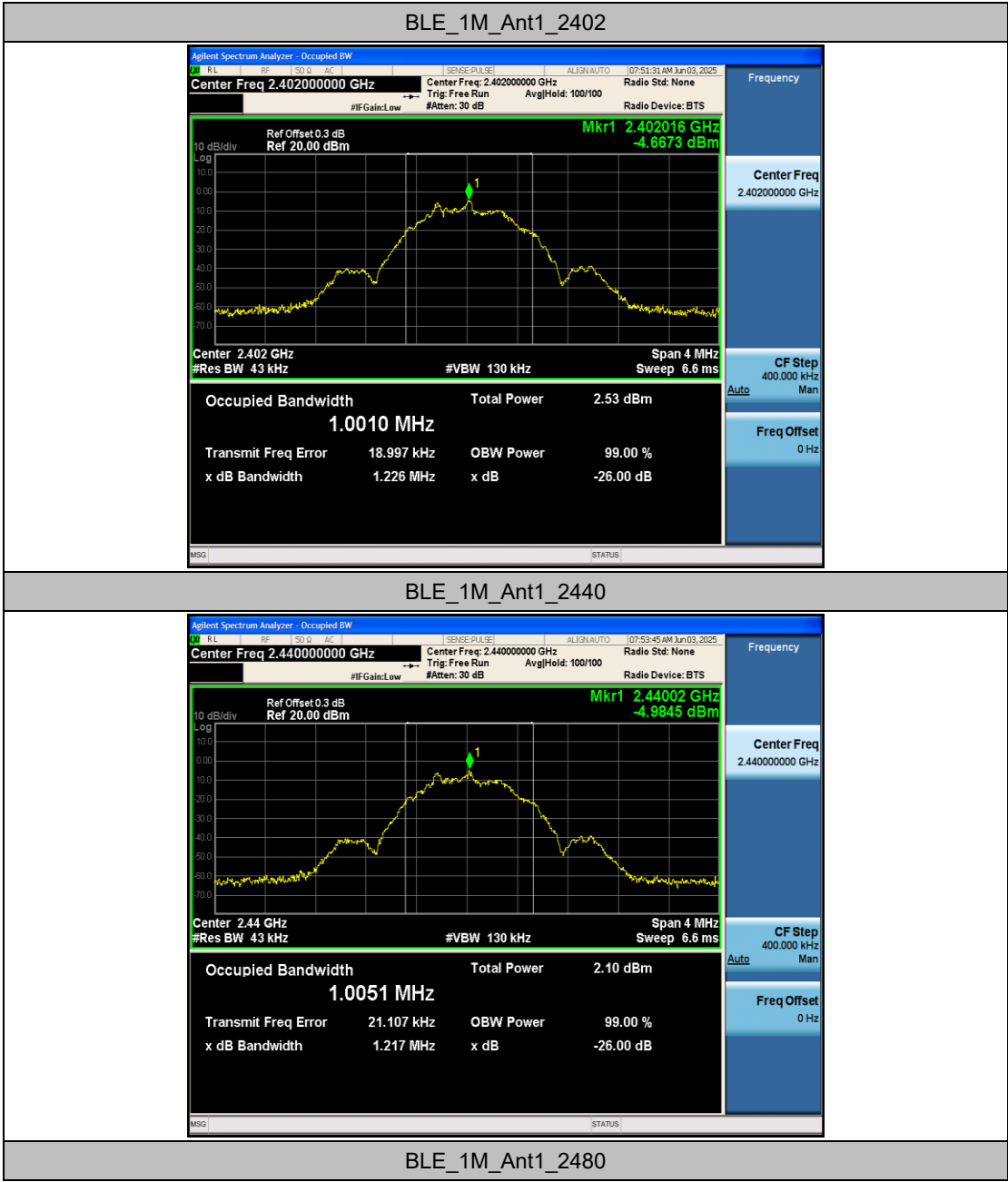


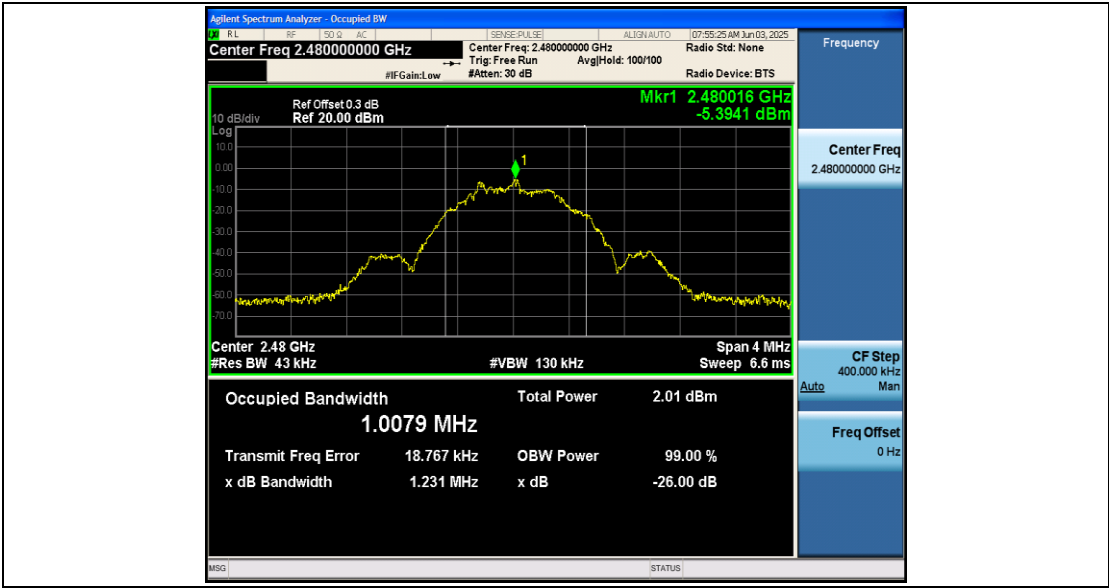
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0010	2401.5185	2402.5195	---	---
		2440	1.0051	2439.5186	2440.5237	---	---
		2480	1.0079	2479.5148	2480.5227	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

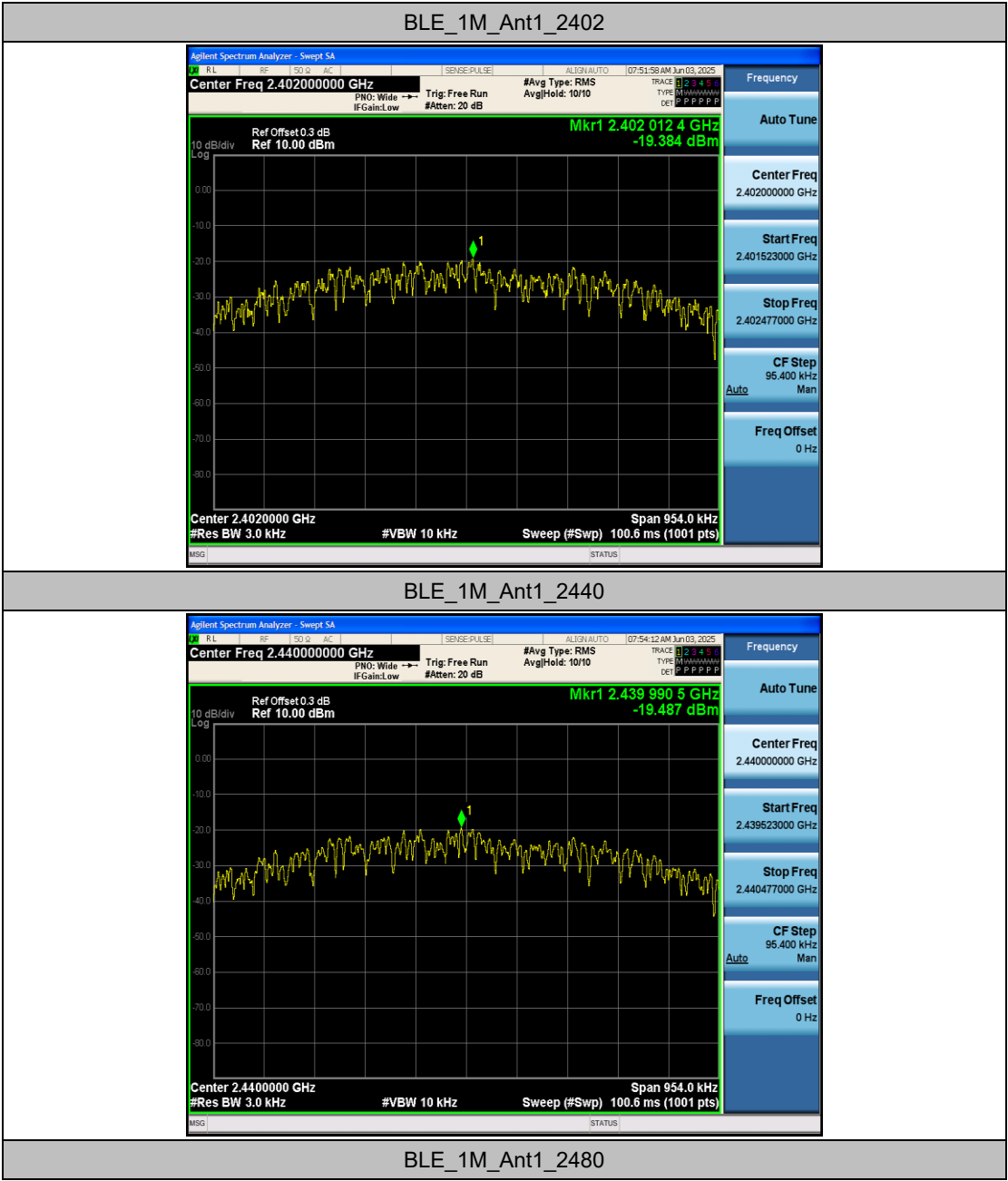
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.58	≤30	PASS
		2440	-3.95	≤30	PASS
		2480	-4.03	≤30	PASS

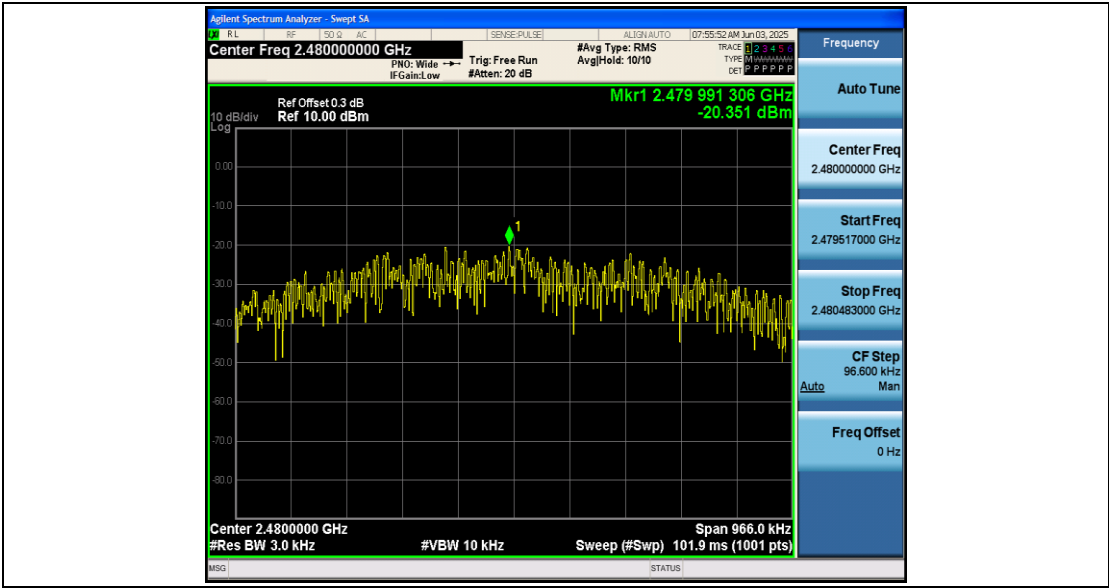
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.38	≤8.00	PASS
		2440	-19.49	≤8.00	PASS
		2480	-20.35	≤8.00	PASS

Test Graphs



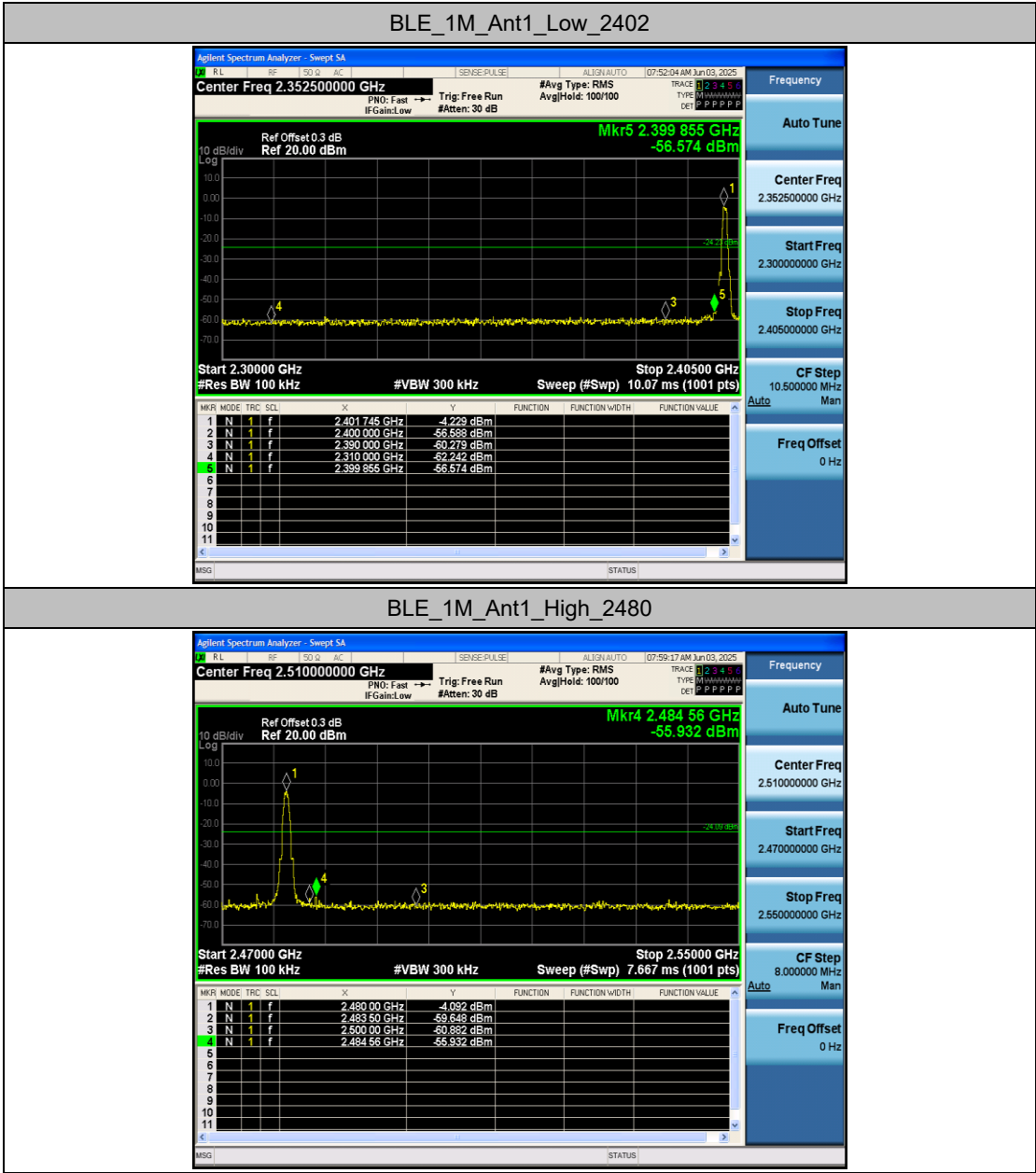


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.23	-56.57	≤-24.23	PASS
		High	2480	-4.09	-55.93	≤-24.09	PASS

Test Graphs

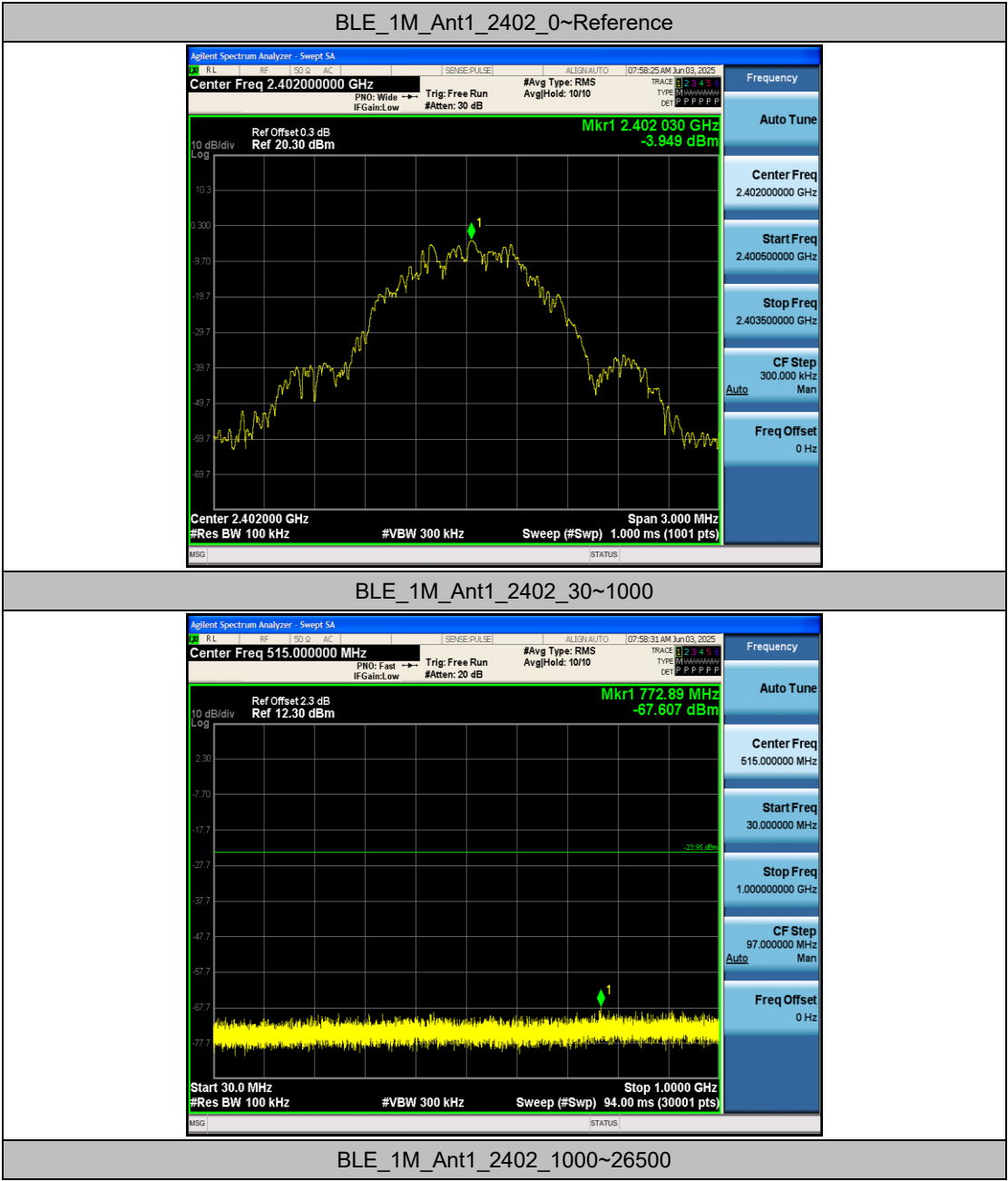


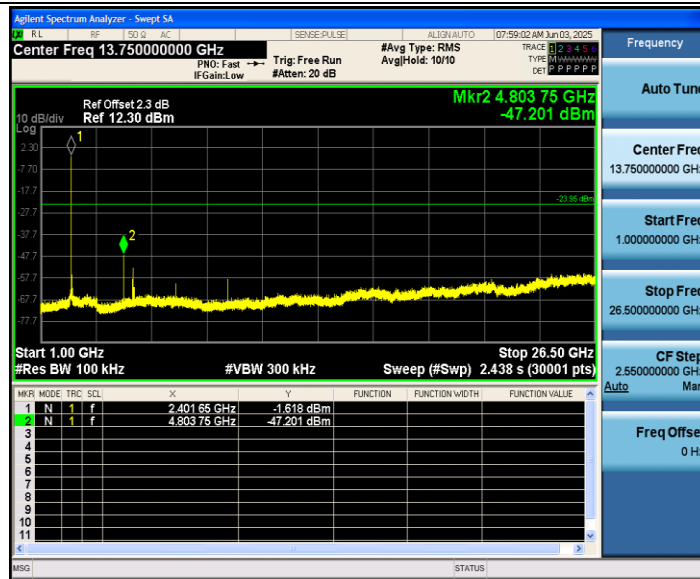
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.95	-3.95	---	PASS
			30~1000	-3.95	-67.61	≤-23.95	PASS
			1000~26500	-3.95	-47.2	≤-23.95	PASS
		2440	Reference	-5.19	-5.19	---	PASS
			30~1000	-5.19	-67.56	≤-25.19	PASS
			1000~26500	-5.19	-48.91	≤-25.19	PASS
		2480	Reference	-4.56	-4.56	---	PASS
			30~1000	-4.56	-68.25	≤-24.56	PASS
			1000~26500	-4.56	-46.88	≤-24.56	PASS

Test Graphs

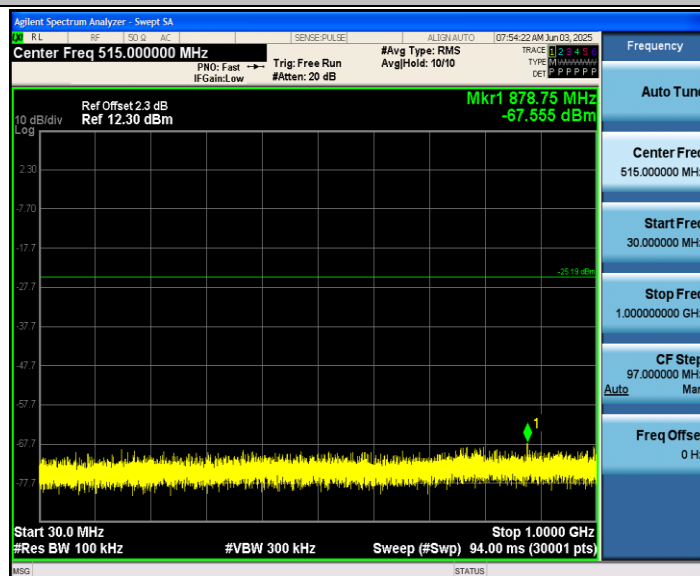




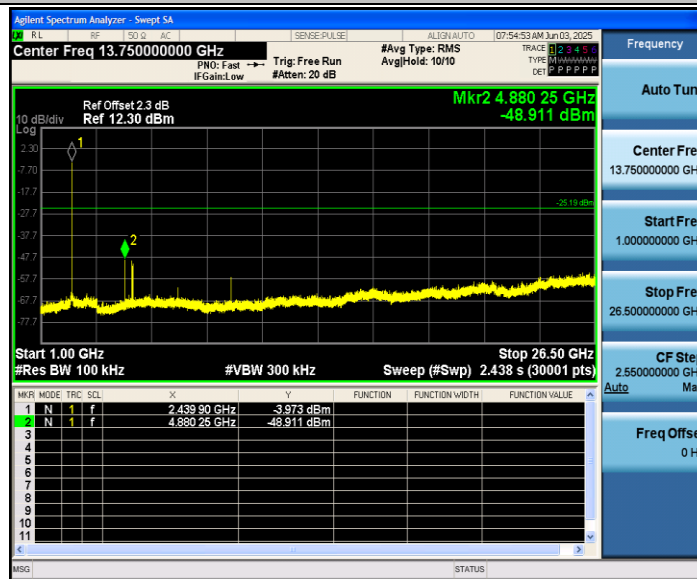
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



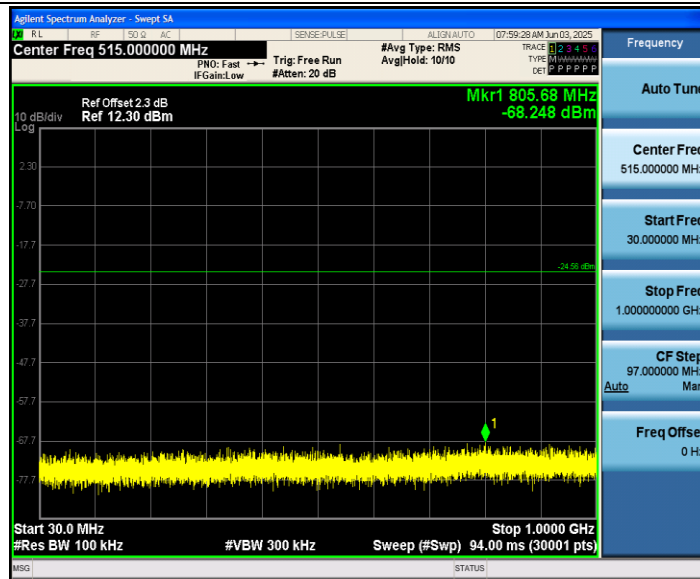
BLE_1M_Ant1_2440_1000~26500



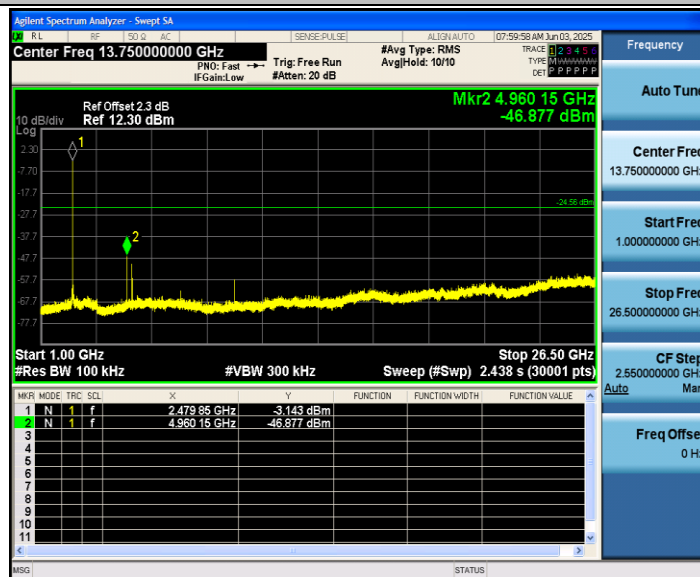
BLE_1M_Ant1_2480_0~Reference



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	0.63	0.6508	65.08	1.87	---	---
		2440	0.41	0.63	0.6508	65.08	1.87	---	---
		2480	0.41	0.63	0.6508	65.08	1.87	---	---

Test Graphs

