

FCC Appendix RF Test Data

FCC ID : 2BP8M-BP01

Company: : Ningbo Hiin Technology Co., Ltd.

EUT : Self-Cleaning Open-Style Smart Cat Litter Box

Model Number : BP01

Report No. : CTA25060401601

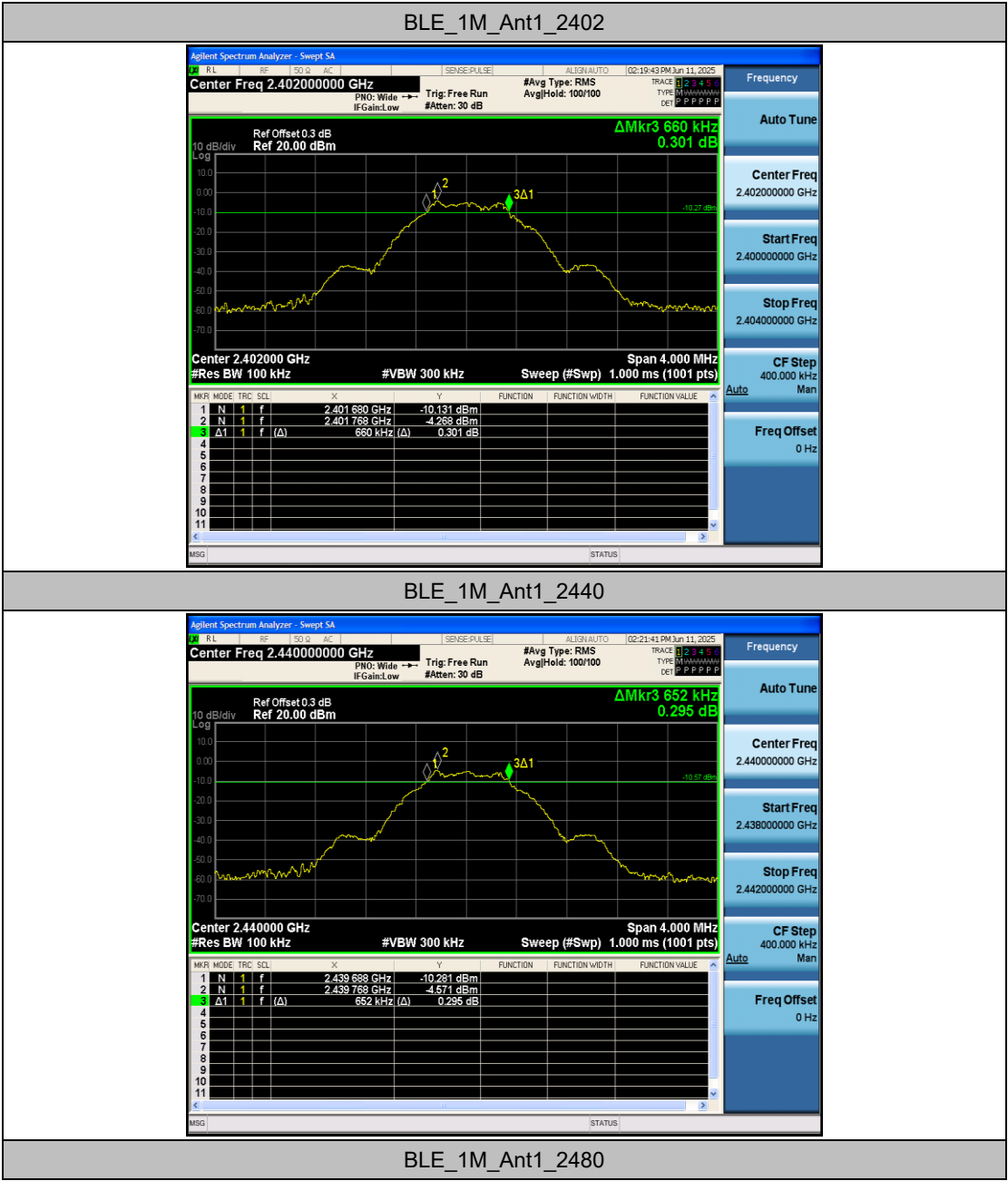
Reviewed By : Eric Wang

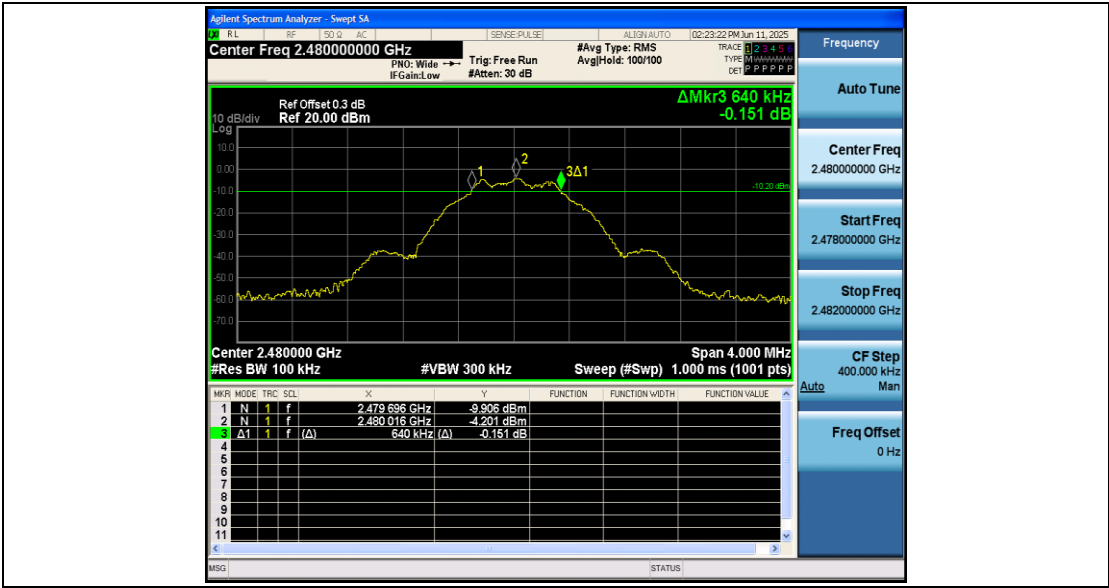
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.680	2402.340	0.5	PASS
		2440	0.652	2439.688	2440.340	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS

Test Graphs



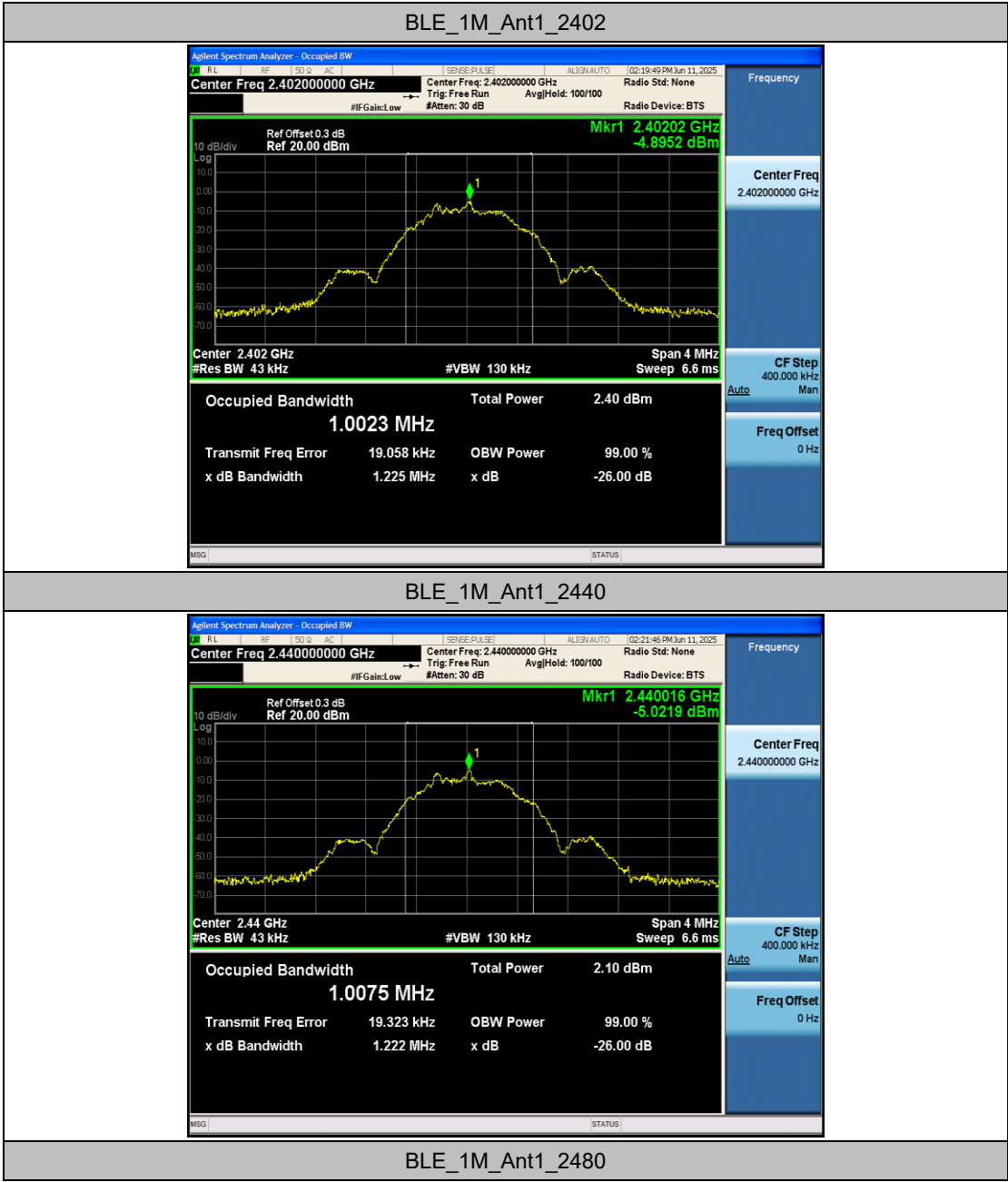


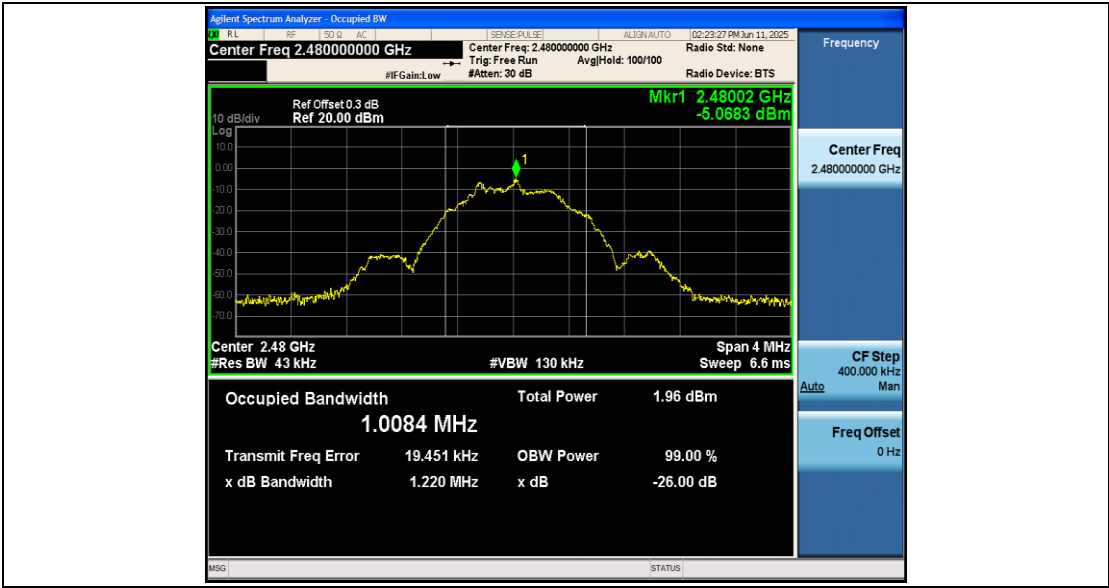
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0023	2401.5179	2402.5202	---	---
		2440	1.0075	2439.5156	2440.5231	---	---
		2480	1.0084	2479.5153	2480.5237	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

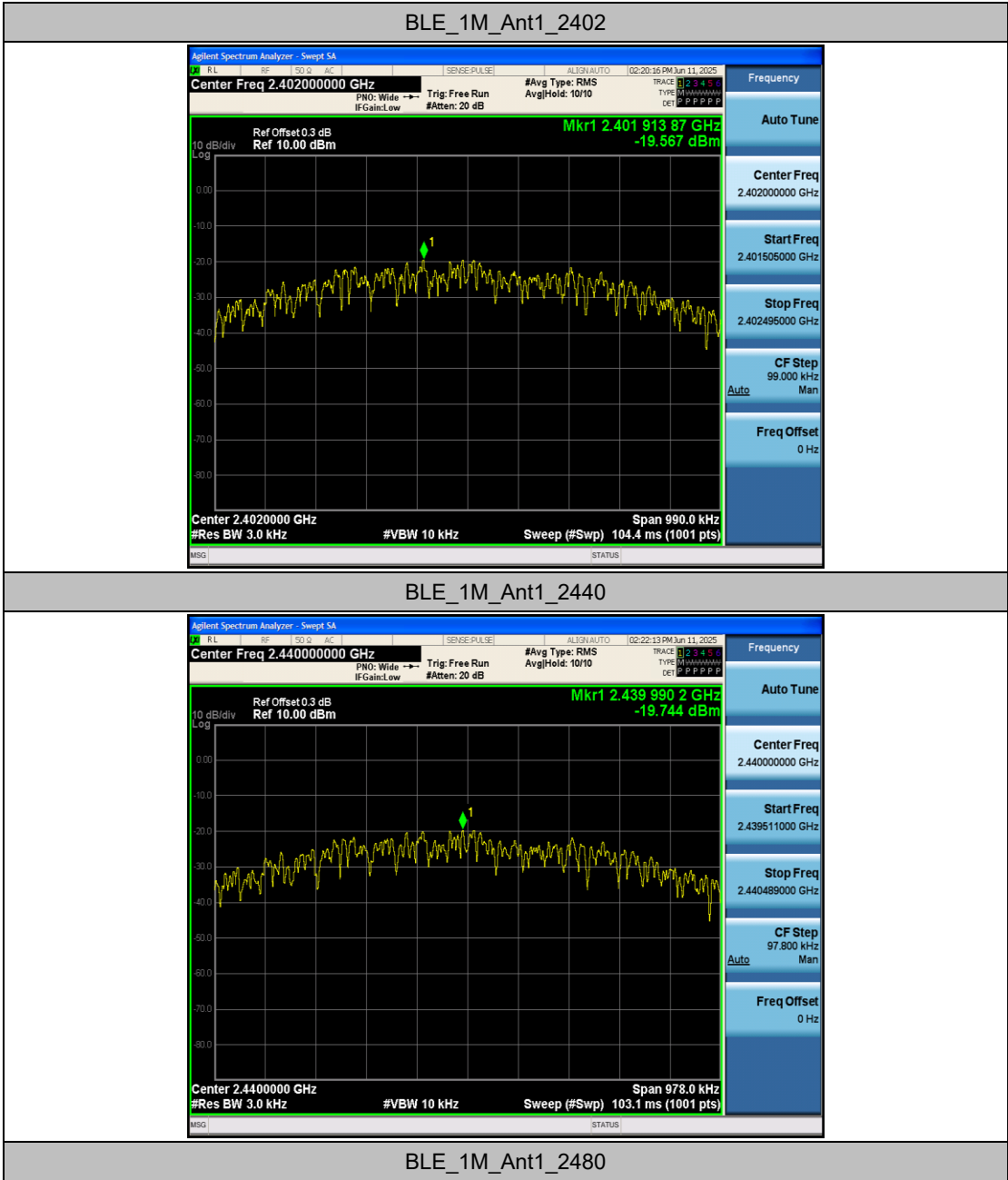
TestMod e	Antenn a	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.68	≤30	PASS
		2440	-3.99	≤30	PASS
		2480	-4.02	≤30	PASS

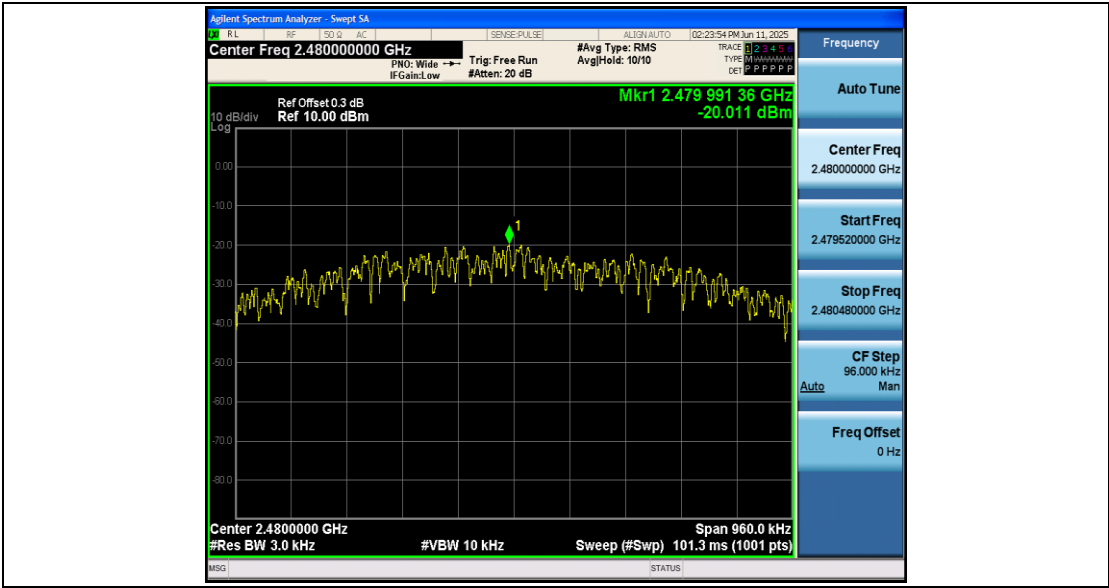
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.57	≤8.00	PASS
		2440	-19.74	≤8.00	PASS
		2480	-20.01	≤8.00	PASS

Test Graphs





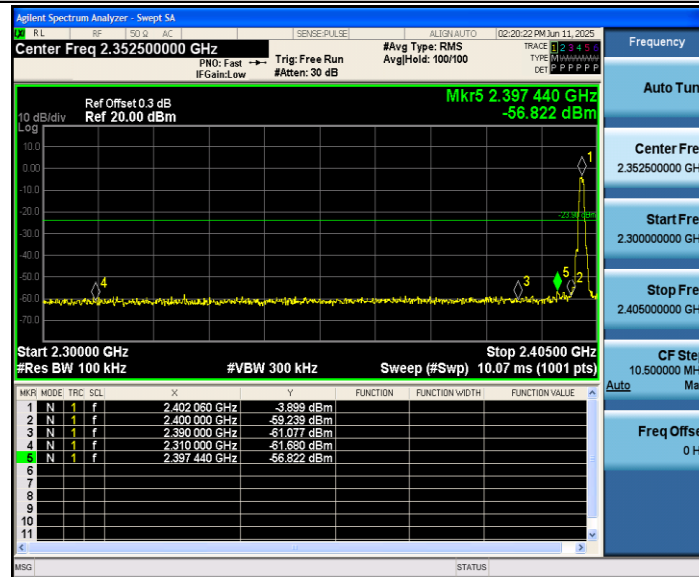
Appendix E: Band edge measurements

Test Result

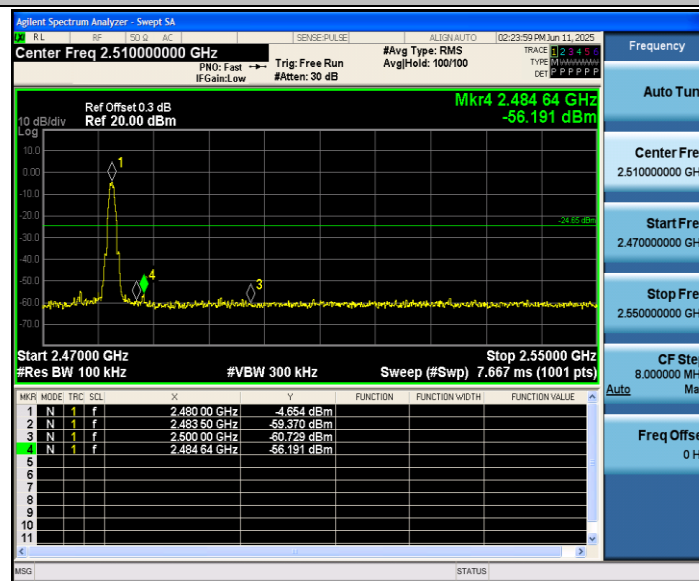
TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.90	-56.82	≤-23.9	PASS
		High	2480	-4.65	-56.19	≤-24.65	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

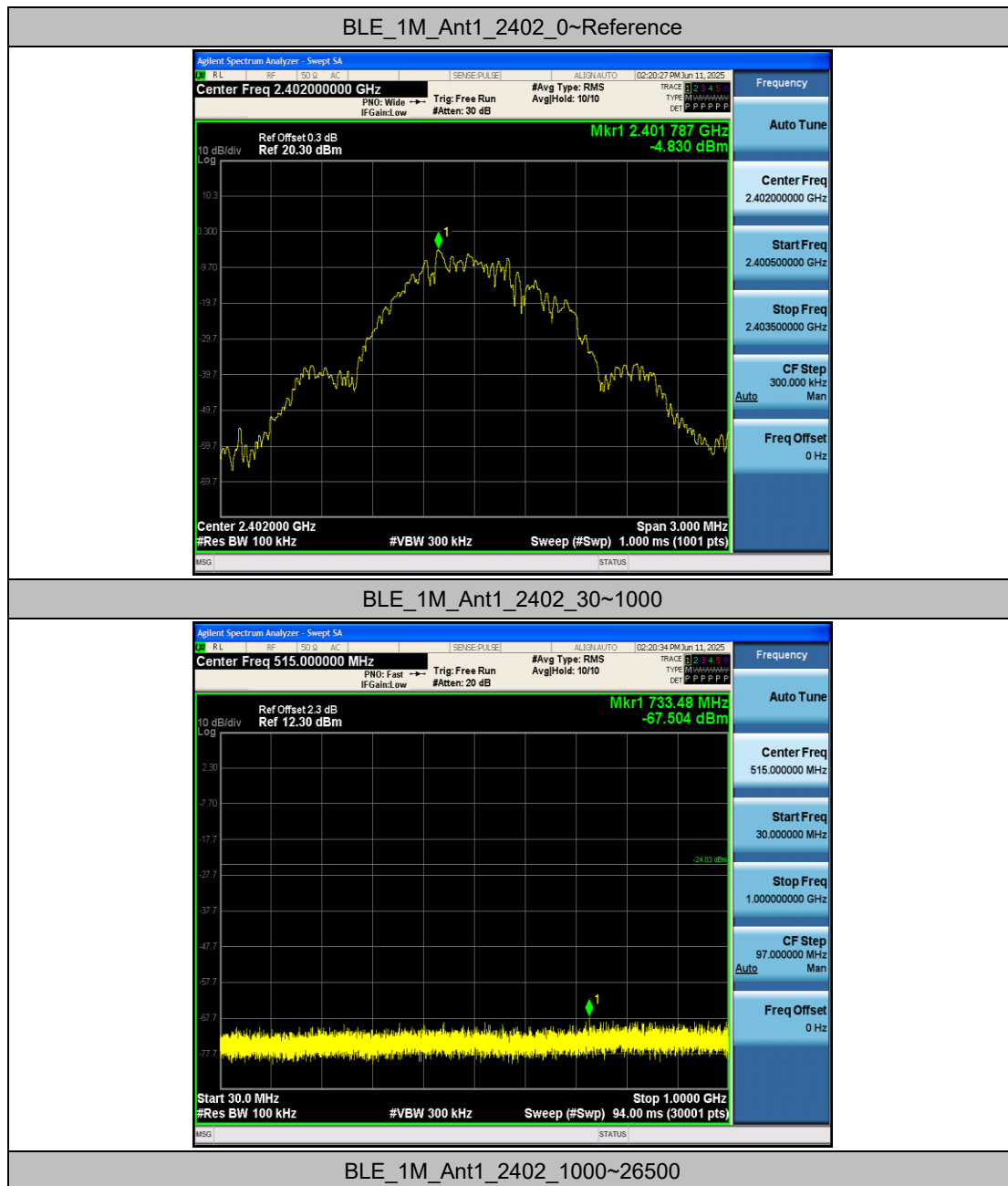


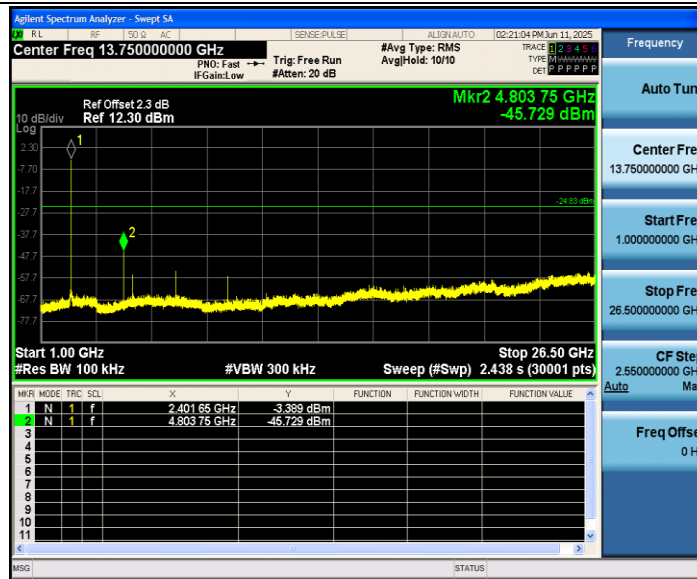
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.83	-4.83	---	PASS
			30~1000	-4.83	-67.5	≤-24.83	PASS
			1000~26500	-4.83	-45.73	≤-24.83	PASS
		2440	Reference	-4.97	-4.97	---	PASS
			30~1000	-4.97	-67.39	≤-24.97	PASS
			1000~26500	-4.97	-46.52	≤-24.97	PASS
		2480	Reference	-5.55	-5.55	---	PASS
			30~1000	-5.55	-68.03	≤-25.55	PASS
			1000~26500	-5.55	-48.2	≤-25.55	PASS

Test Graphs

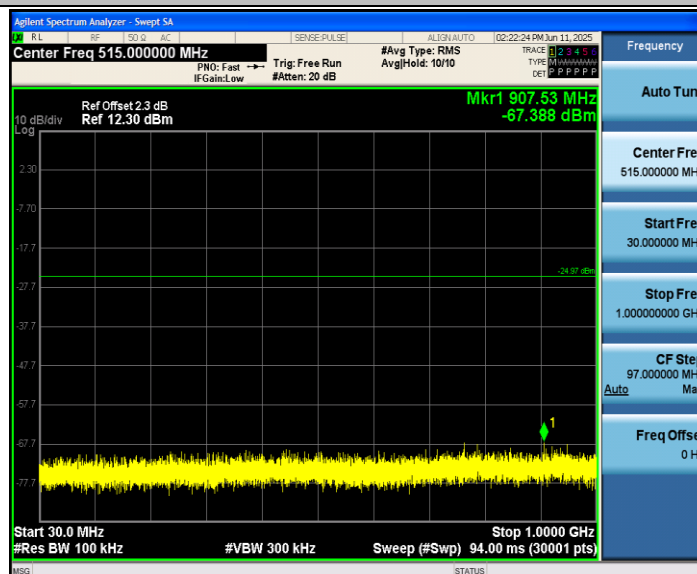




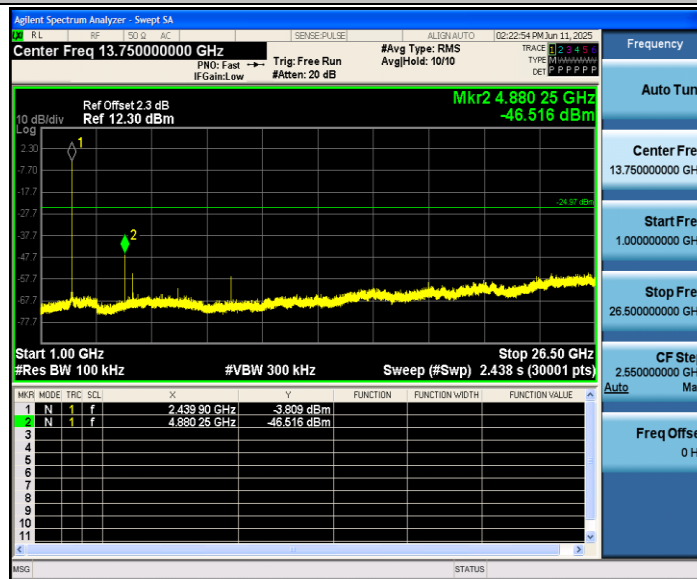
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



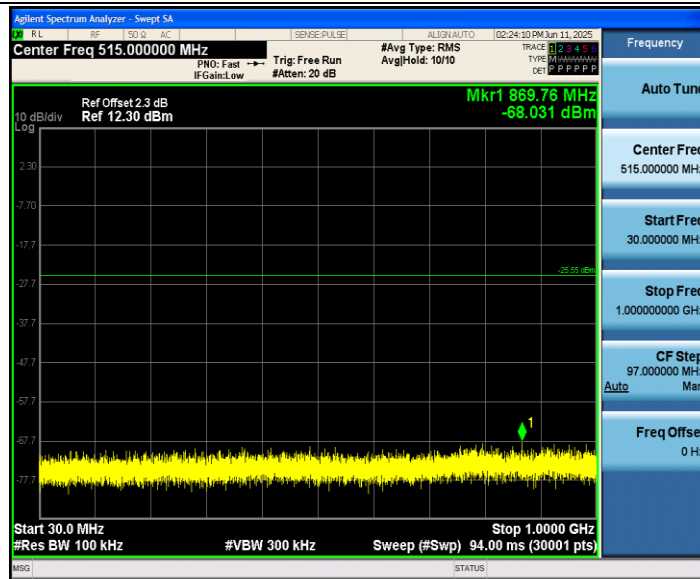
BLE_1M_Ant1_2440_1000~26500



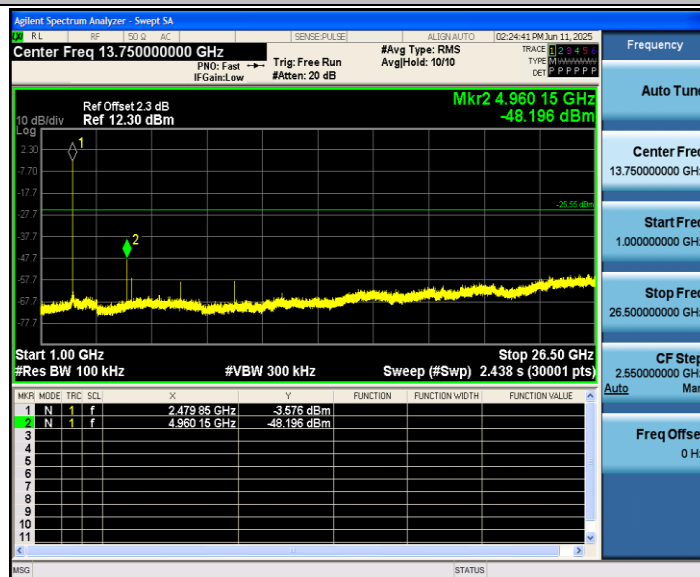
BLE_1M_Ant1_2480_0~Reference



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

