

FCC Appendix RF Test Data for BLE

Company: : AGRISOUND LIMITED

EUT : AGRISOUND_POLLY

Model Number : PV_3.1

FCC ID : 2BTNL-PV

Report No. : CTA25101401501

Reviewed By : Eric Wang

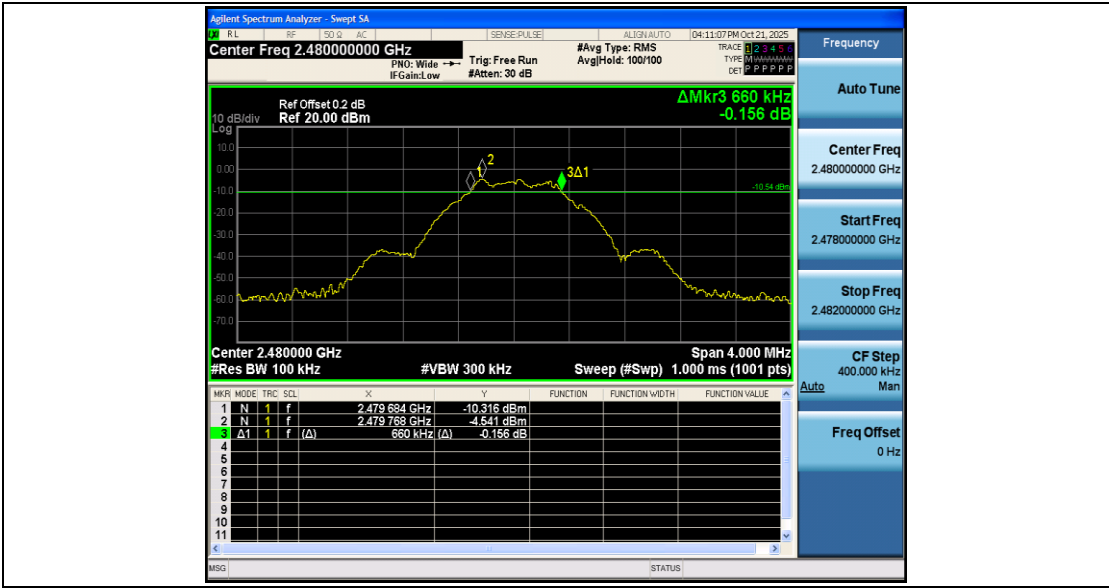
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.696	2402.340	0.5	PASS
		2440	0.652	2439.684	2440.336	0.5	PASS
		2480	0.660	2479.684	2480.344	0.5	PASS

Test Graphs



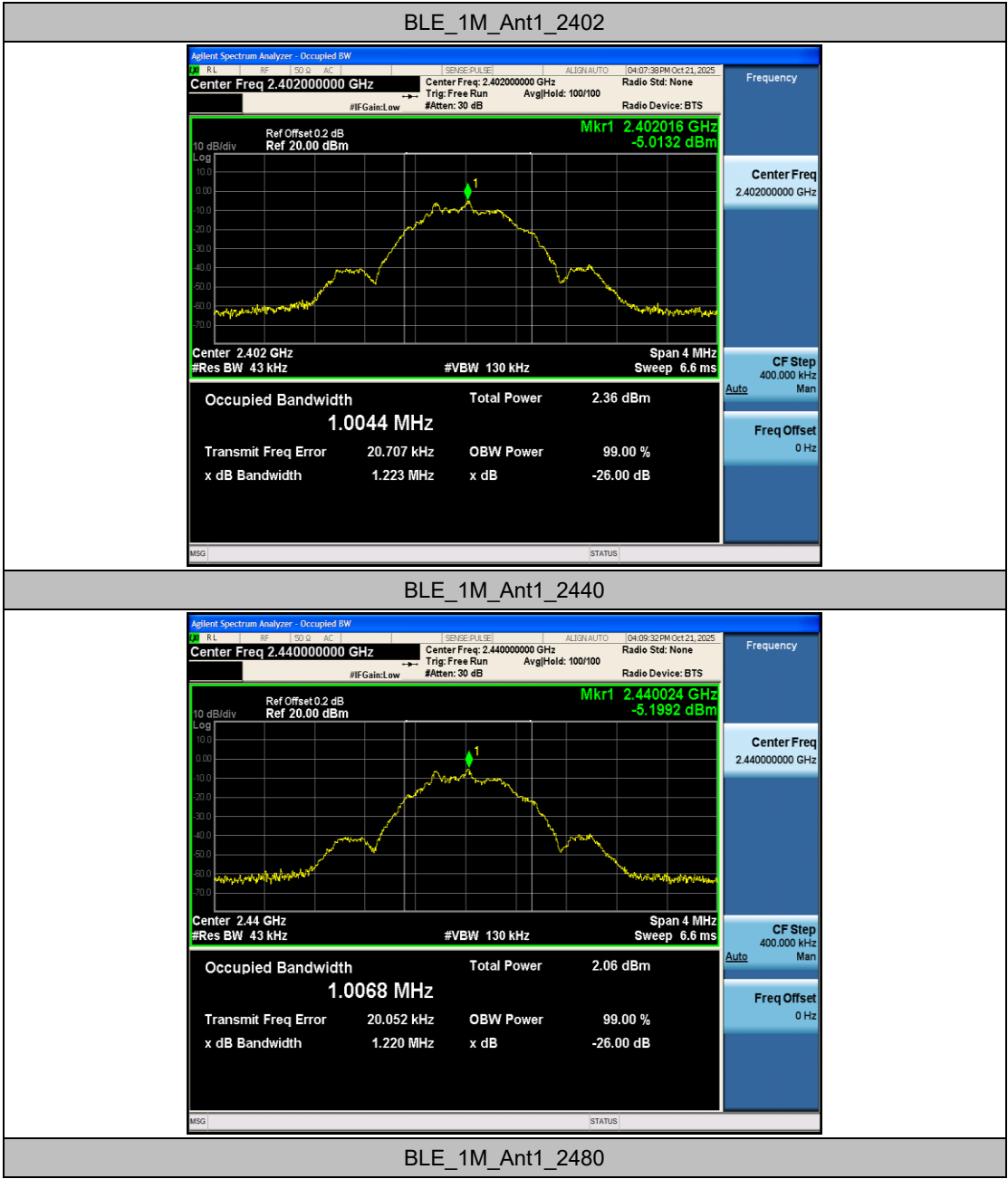


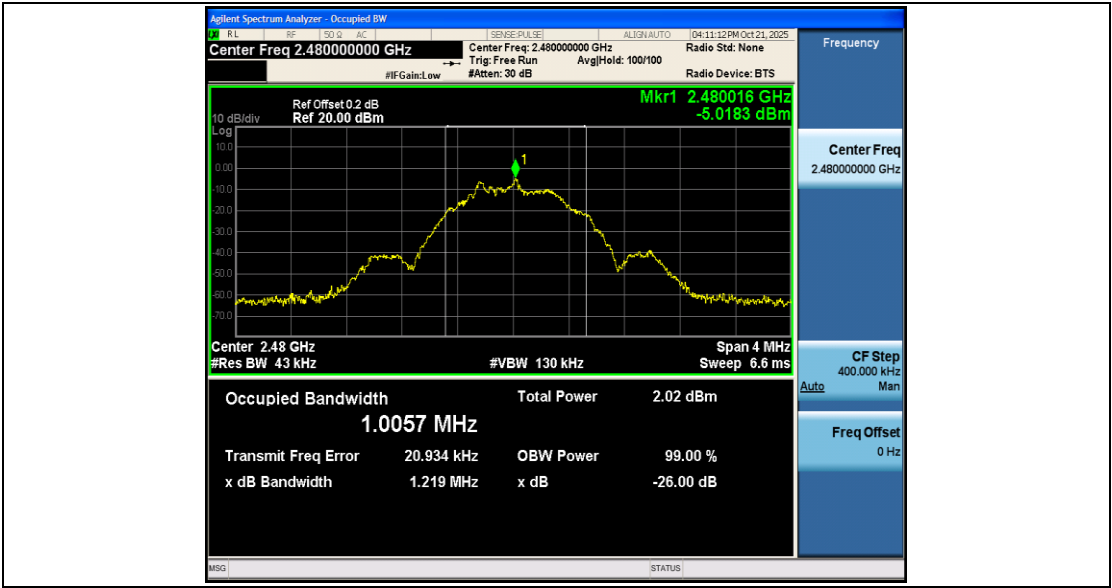
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0044	2401.5185	2402.5229	---	---
		2440	1.0068	2439.5167	2440.5235	---	---
		2480	1.0057	2479.5181	2480.5238	---	---

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	-3.77	≤30	PASS
		2440	-4.00	≤30	PASS
		2480	-3.96	≤30	PASS

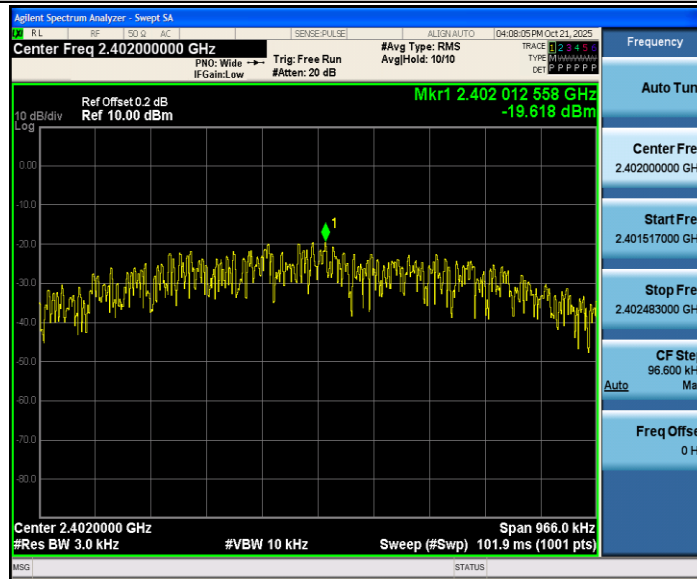
Appendix D: Maximum power spectral density

Test Result

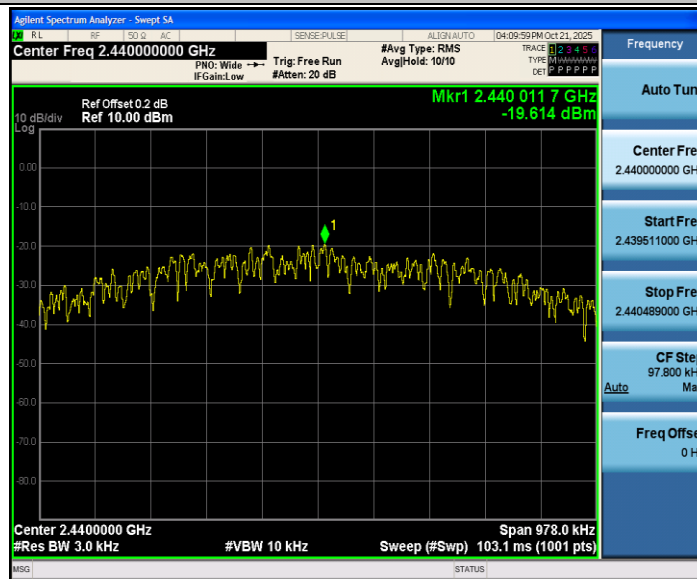
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.62	≤8.00	PASS
		2440	-19.61	≤8.00	PASS
		2480	-19.67	≤8.00	PASS

Test Graphs

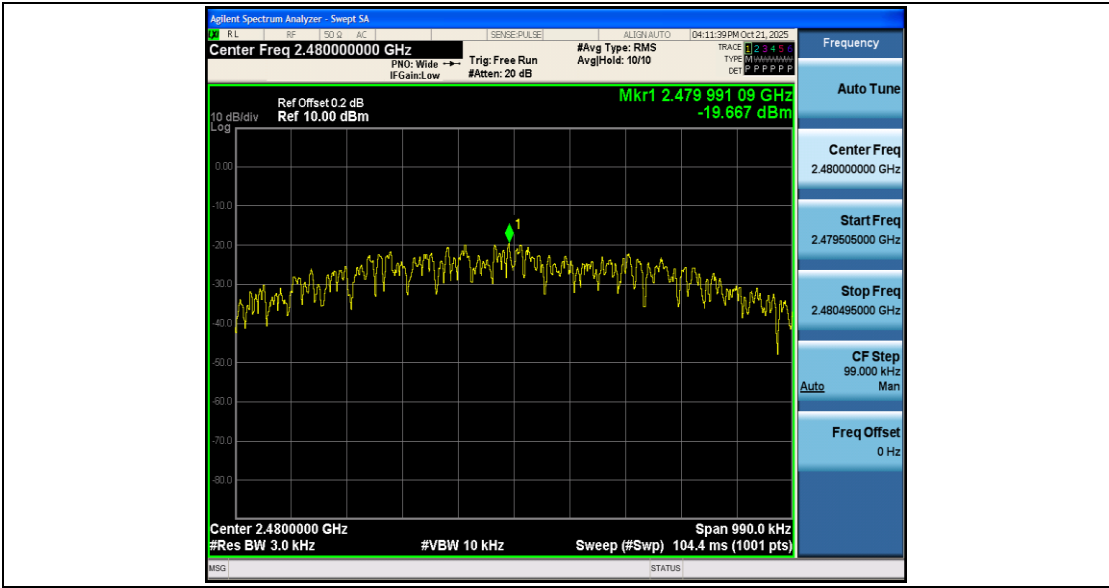
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

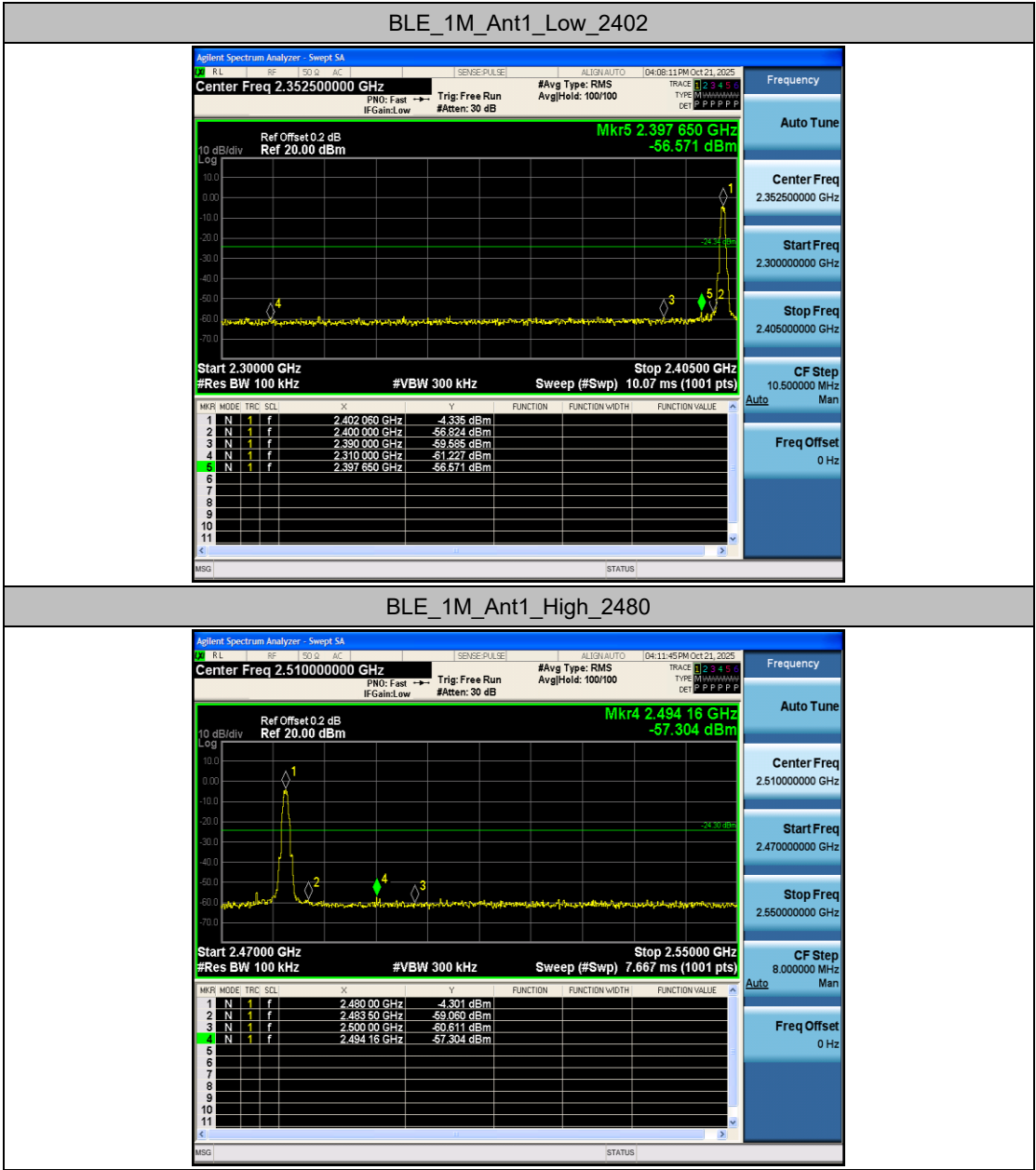


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.34	-56.57	≤-24.34	PASS
		High	2480	-4.30	-57.3	≤-24.3	PASS

Test Graphs

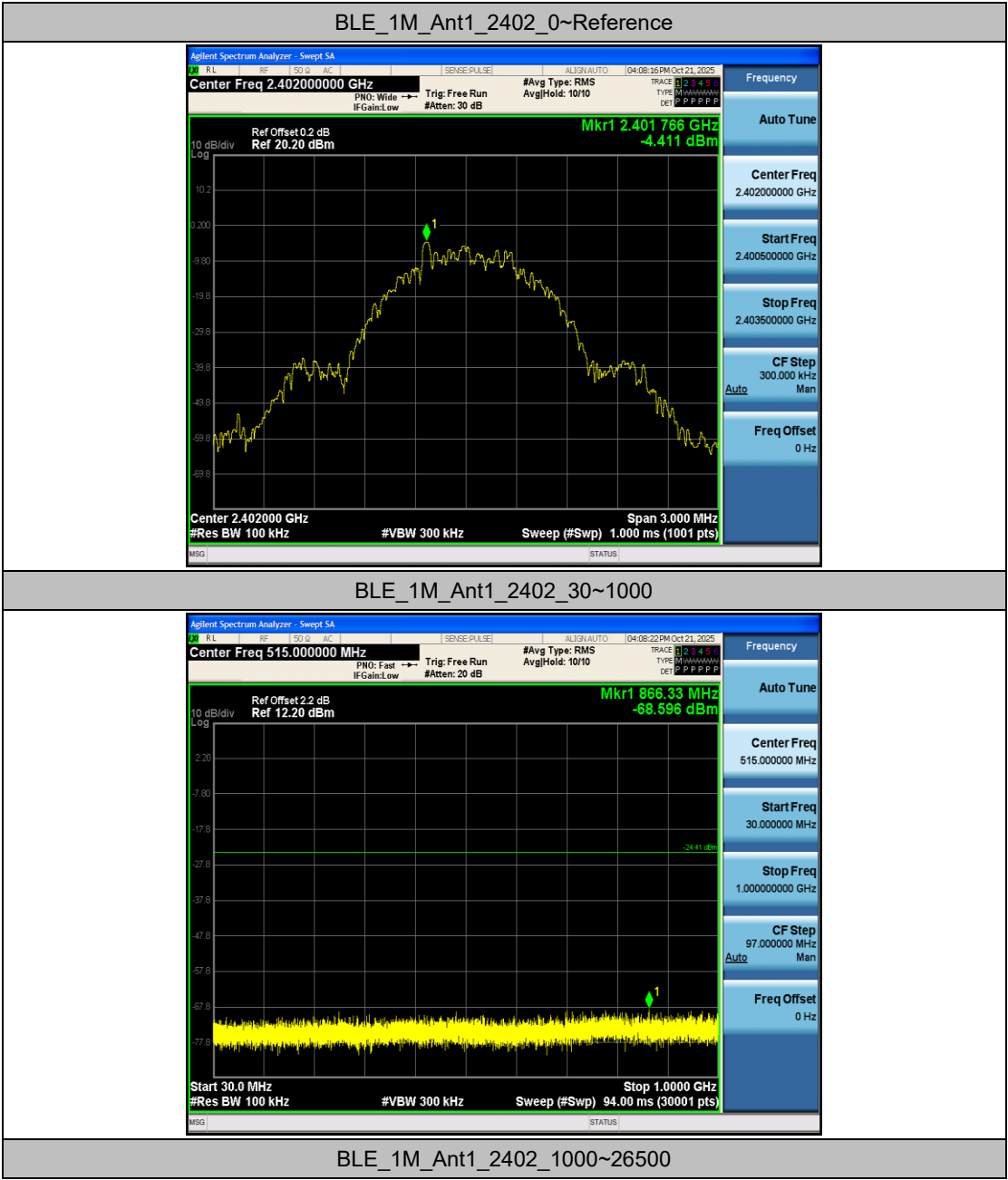


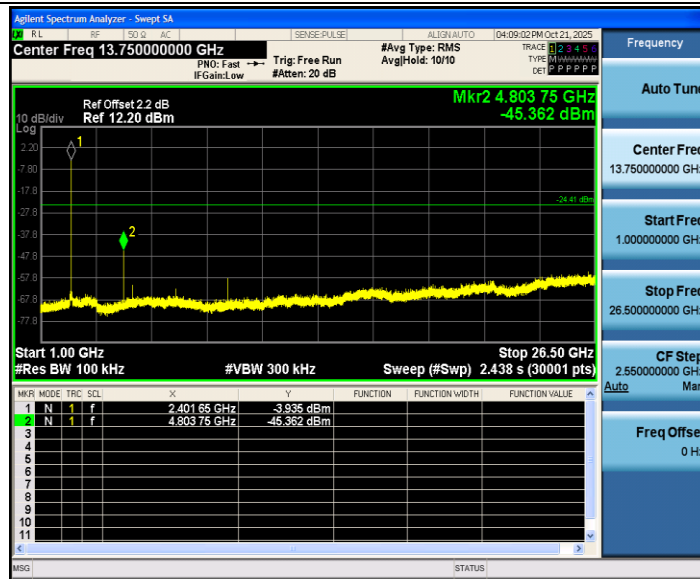
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.41	-4.41	---	PASS
			30~1000	-4.41	-68.6	≤-24.41	PASS
			1000~26500	-4.41	-45.36	≤-24.41	PASS
		2440	Reference	-5.12	-5.12	---	PASS
			30~1000	-5.12	-67.62	≤-25.12	PASS
			1000~26500	-5.12	-47.16	≤-25.12	PASS
		2480	Reference	-5.23	-5.23	---	PASS
			30~1000	-5.23	-68.36	≤-25.23	PASS
			1000~26500	-5.23	-50.1	≤-25.23	PASS

Test Graphs

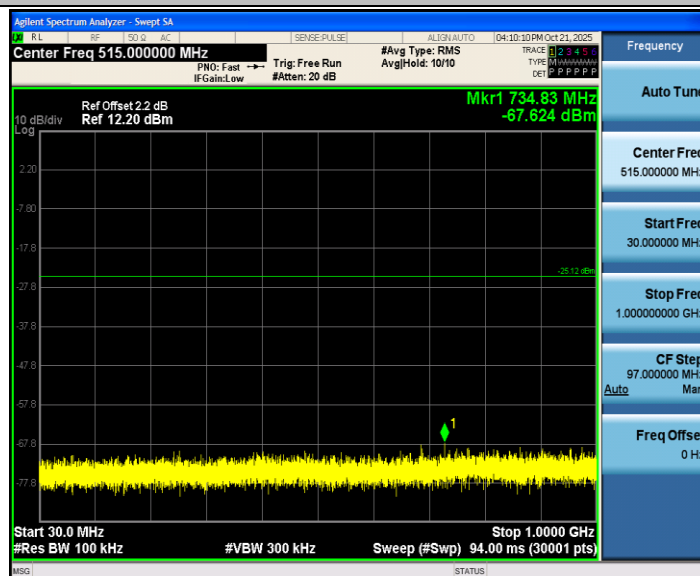




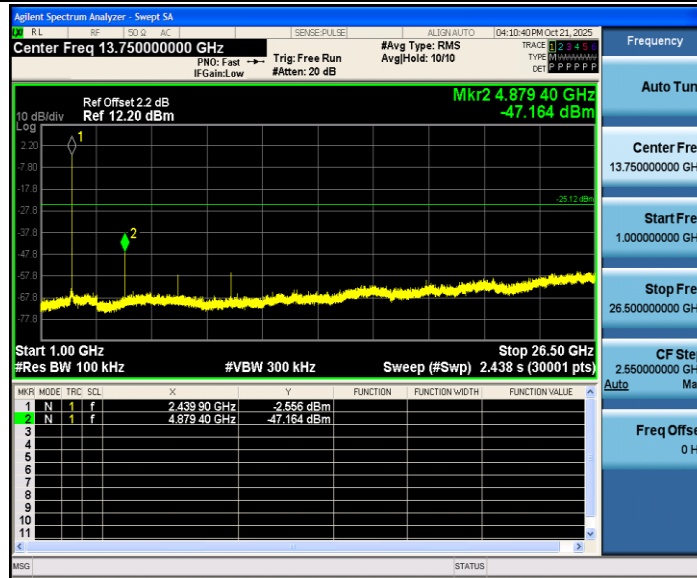
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



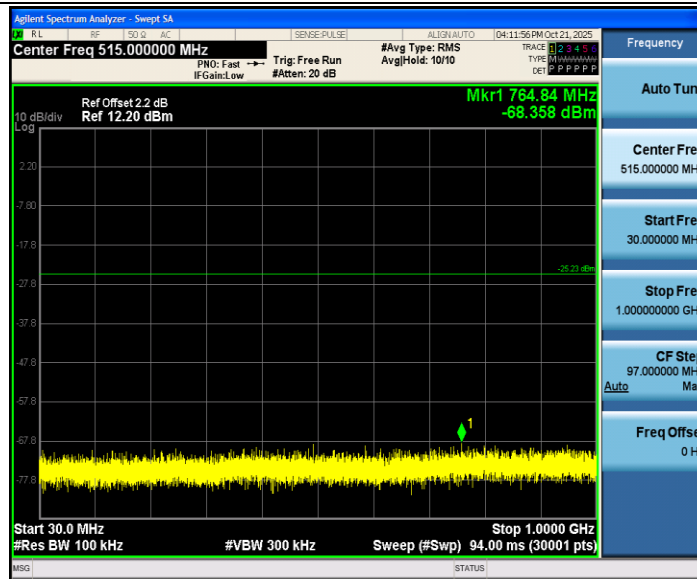
BLE_1M_Ant1_2440_1000~26500



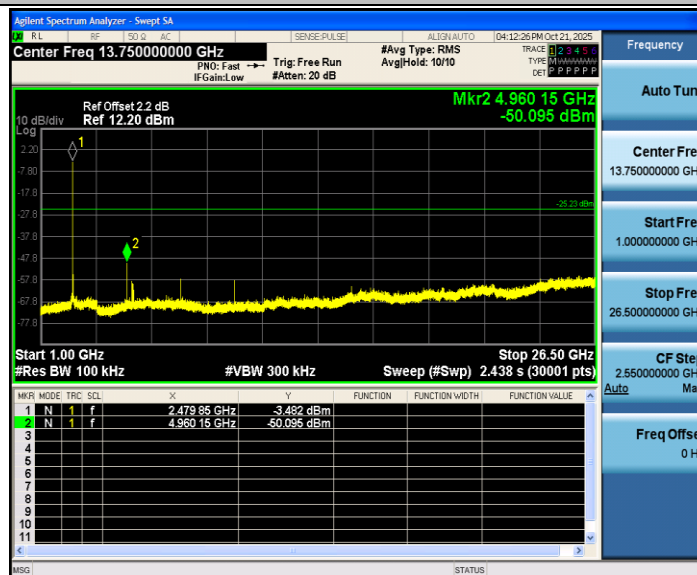
BLE_1M_Ant1_2480_0~Reference



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

