

FCC Appendix RF Test Data for BLE

FCC ID : 2BX6A-B330

Company : POSSIFY BILGISAYAR VE OTOMASYON S SISTEMLERI
SAN. DIS. TIC. A.S.

EUT : Portable label printer

Model Number : B330

Report No. : CTA26080501501

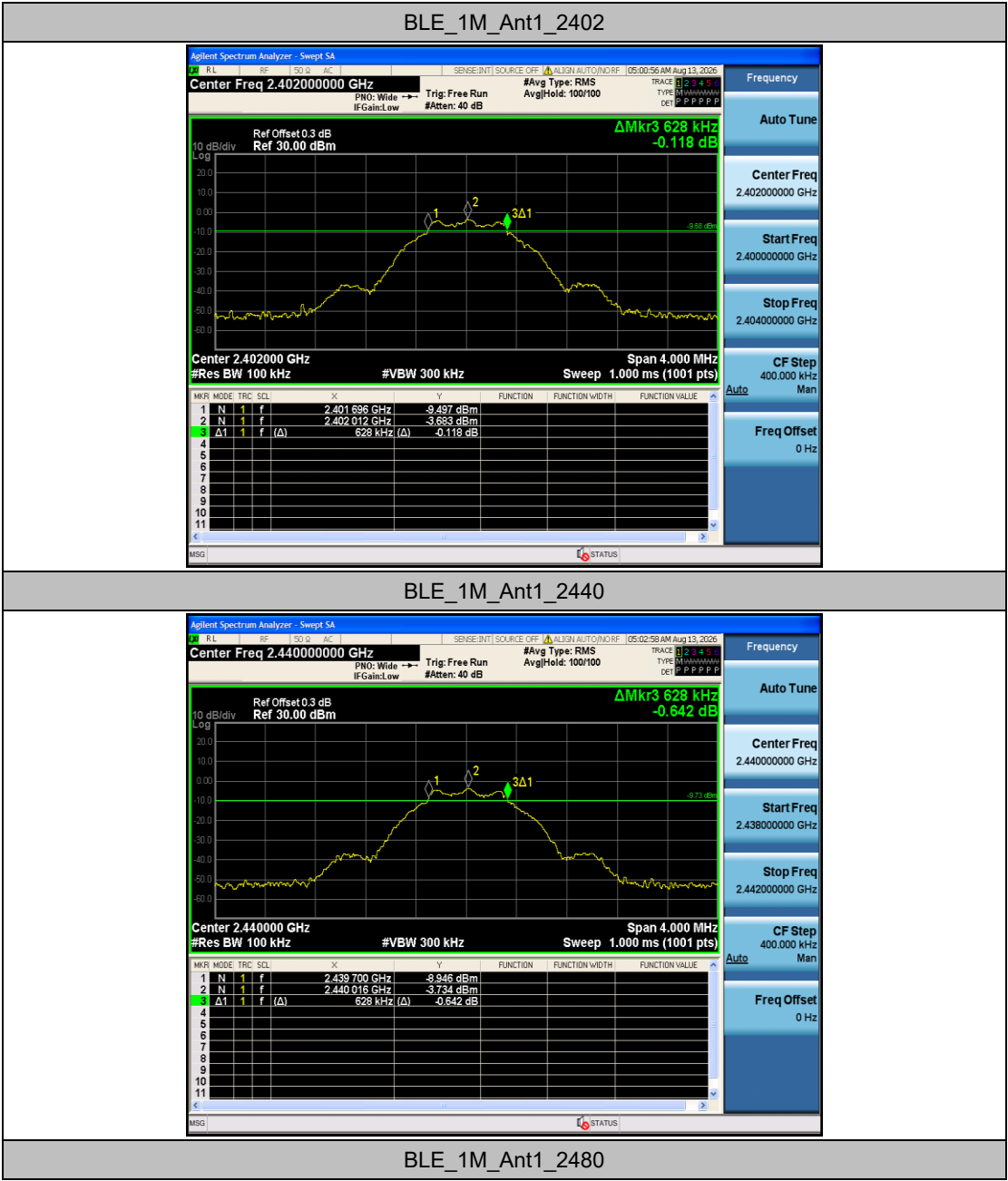
Reviewed By : Eric Wang

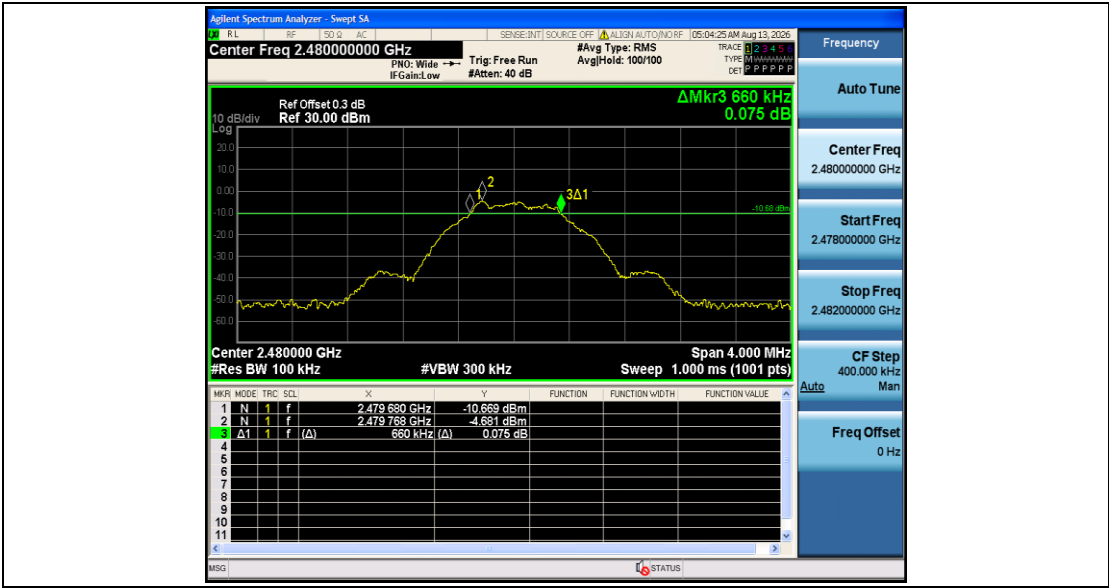
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.628	2401.696	2402.324	0.5	PASS
		2440	0.628	2439.700	2440.328	0.5	PASS
		2480	0.660	2479.680	2480.340	0.5	PASS

Test Graphs



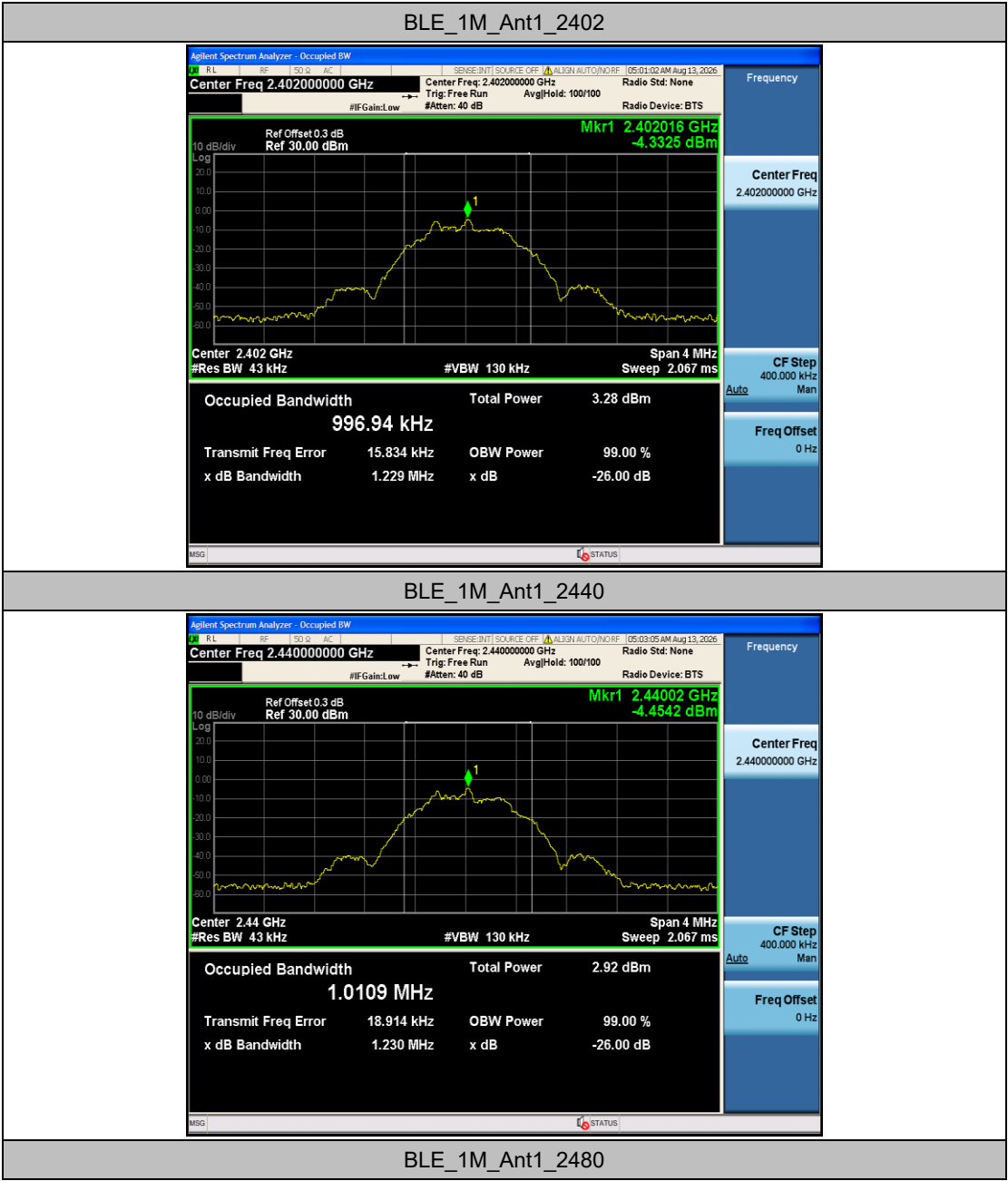


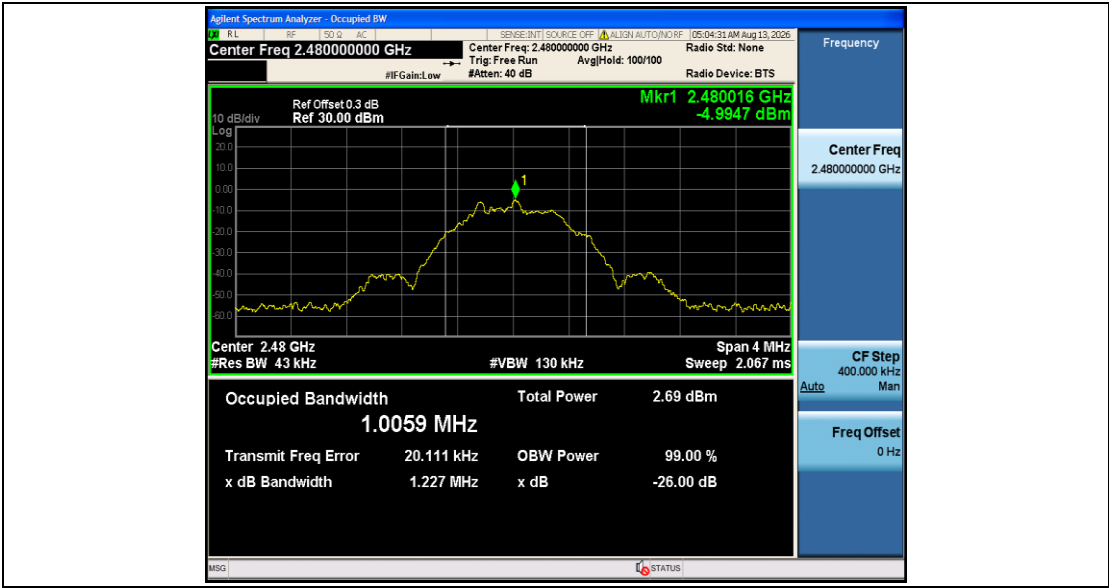
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.99694	2401.5174	2402.5143	---	---
		2440	1.0109	2439.5135	2440.5244	---	---
		2480	1.0059	2479.5172	2480.5231	---	---

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	-3.46	≤30	PASS
		2440	-3.63	≤30	PASS
		2480	-4.03	≤30	PASS

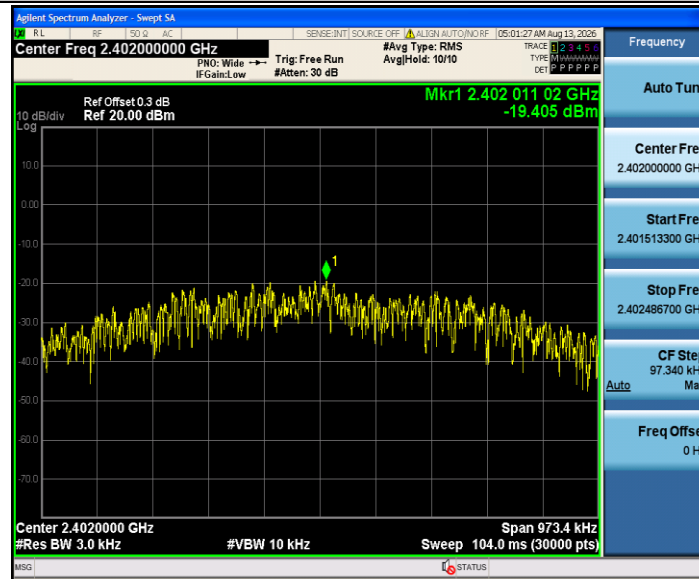
Appendix D: Maximum power spectral density

Test Result

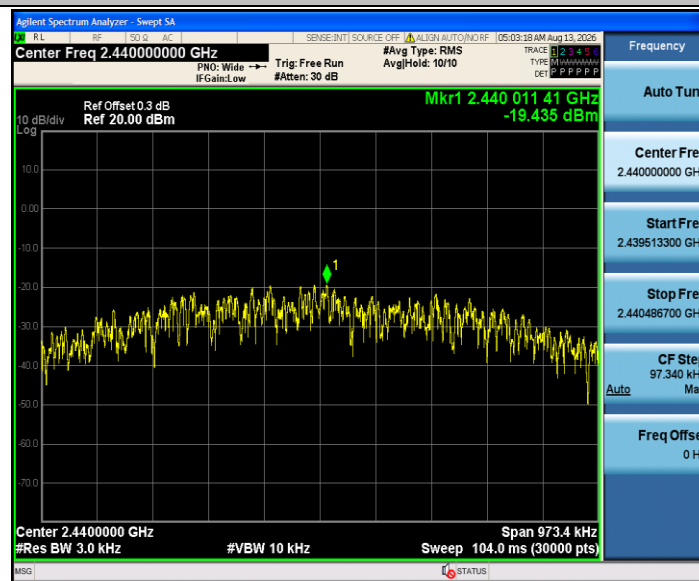
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.41	≤8.00	PASS
		2440	-19.44	≤8.00	PASS
		2480	-19.93	≤8.00	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



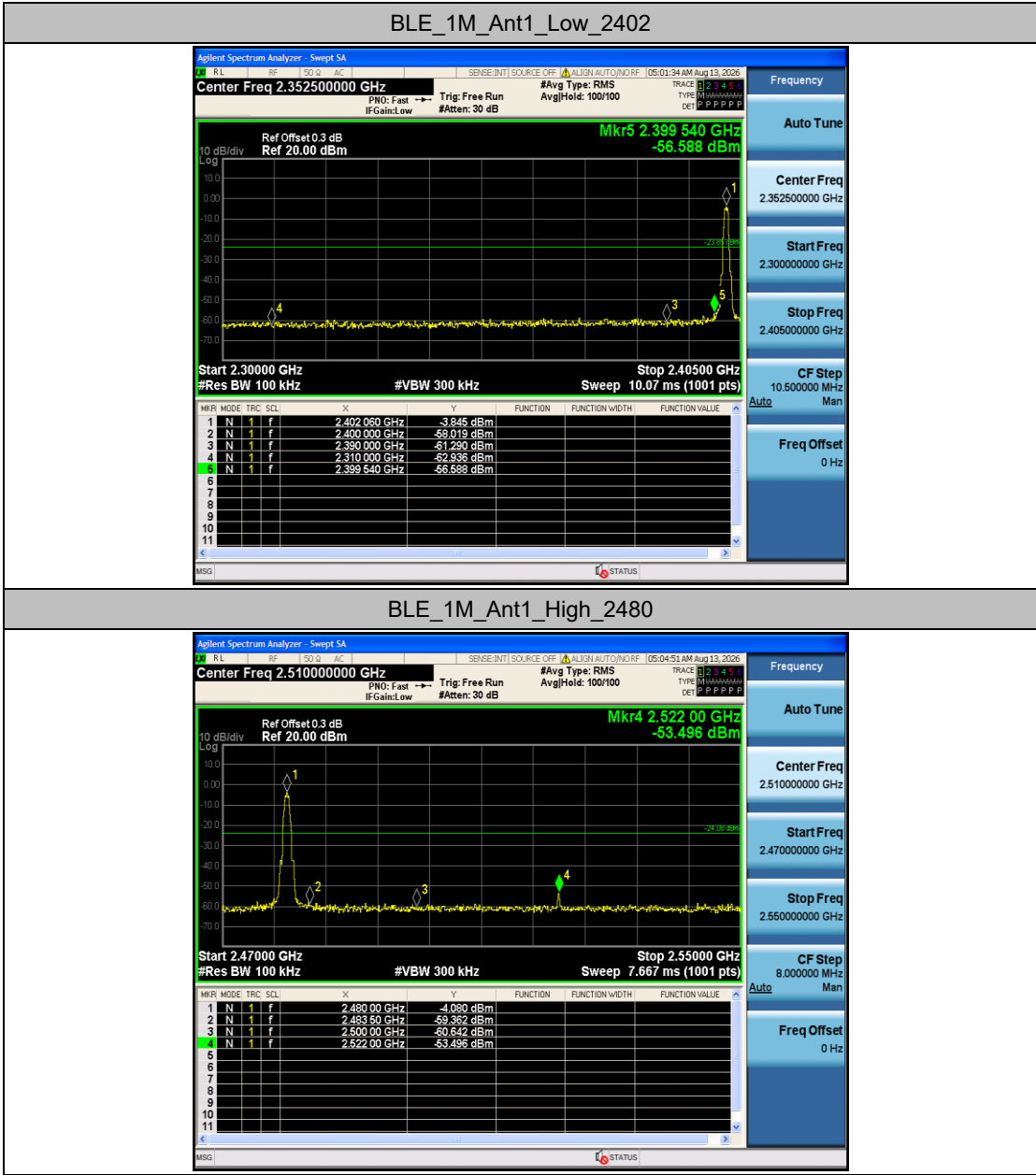
BLE_1M_Ant1_2480

Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.85	-56.59	≤-23.85	PASS
		High	2480	-4.08	-53.5	≤-24.08	PASS

Test Graphs

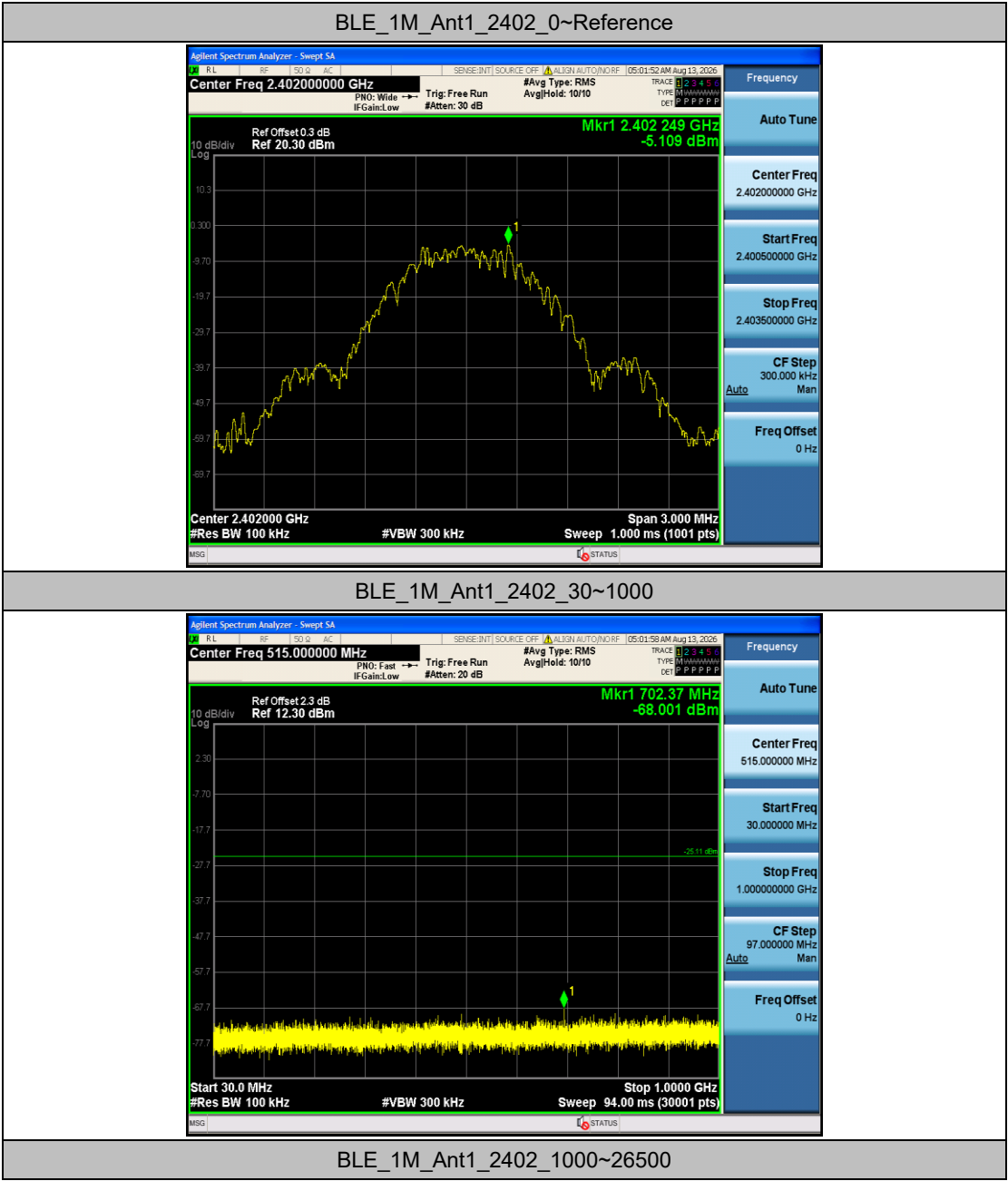


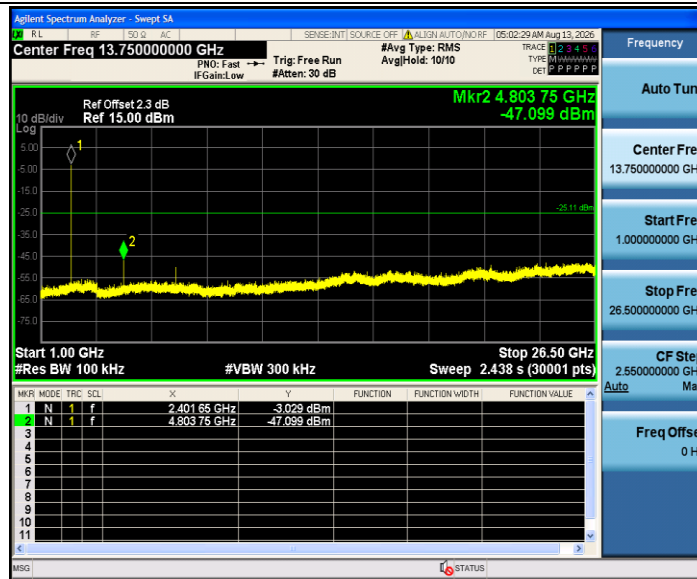
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-5.11	-5.11	---	PASS
			30~1000	-5.11	-68	≤-25.11	PASS
			1000~26500	-5.11	-47.1	≤-25.11	PASS
		2440	Reference	-4.56	-4.56	---	PASS
			30~1000	-4.56	-69.07	≤-24.56	PASS
			1000~26500	-4.56	-47.16	≤-24.56	PASS
		2480	Reference	-5.45	-5.45	---	PASS
			30~1000	-5.45	-68.96	≤-25.45	PASS
			1000~26500	-5.45	-47.21	≤-25.45	PASS

Test Graphs

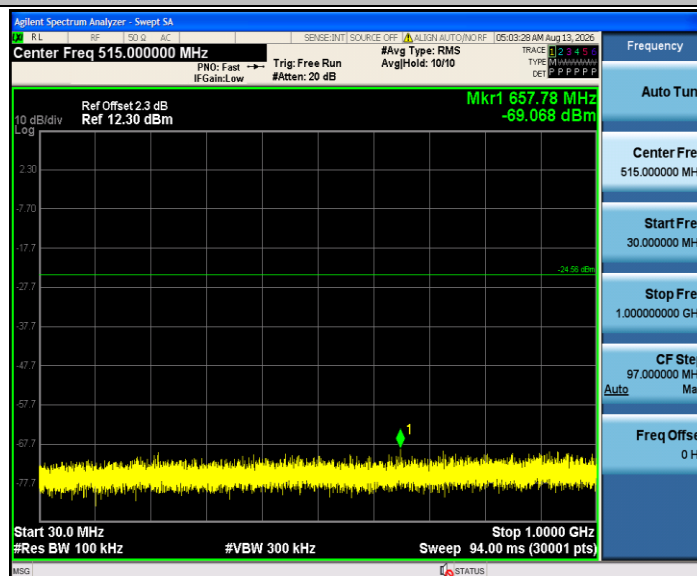




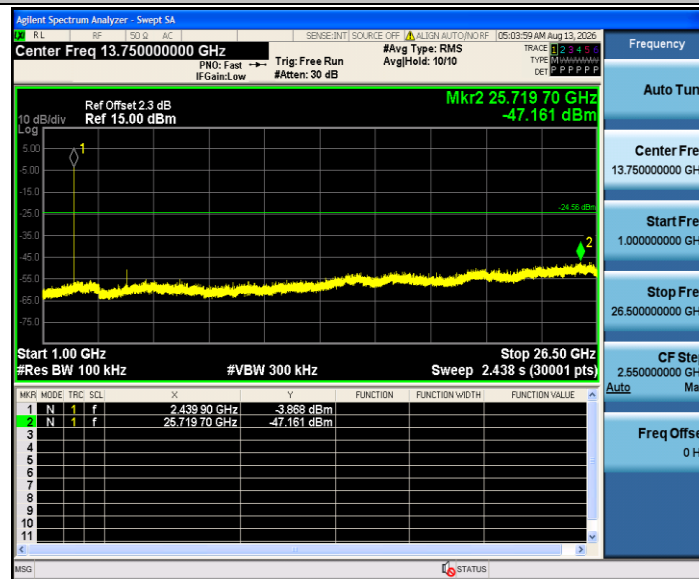
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



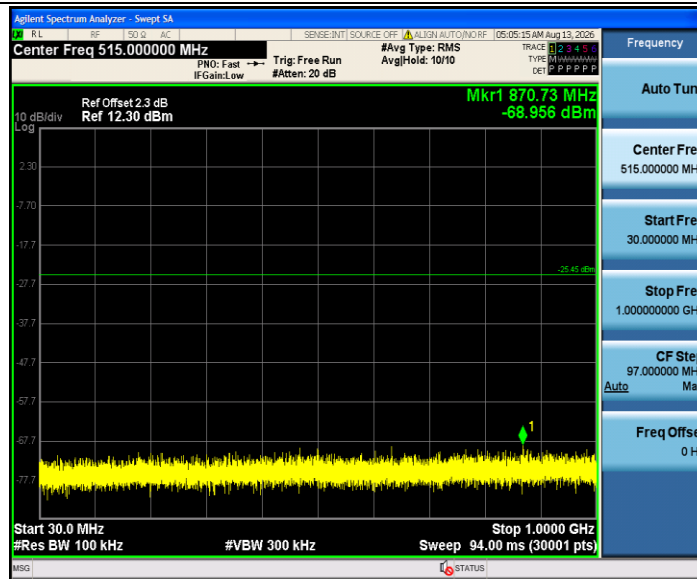
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

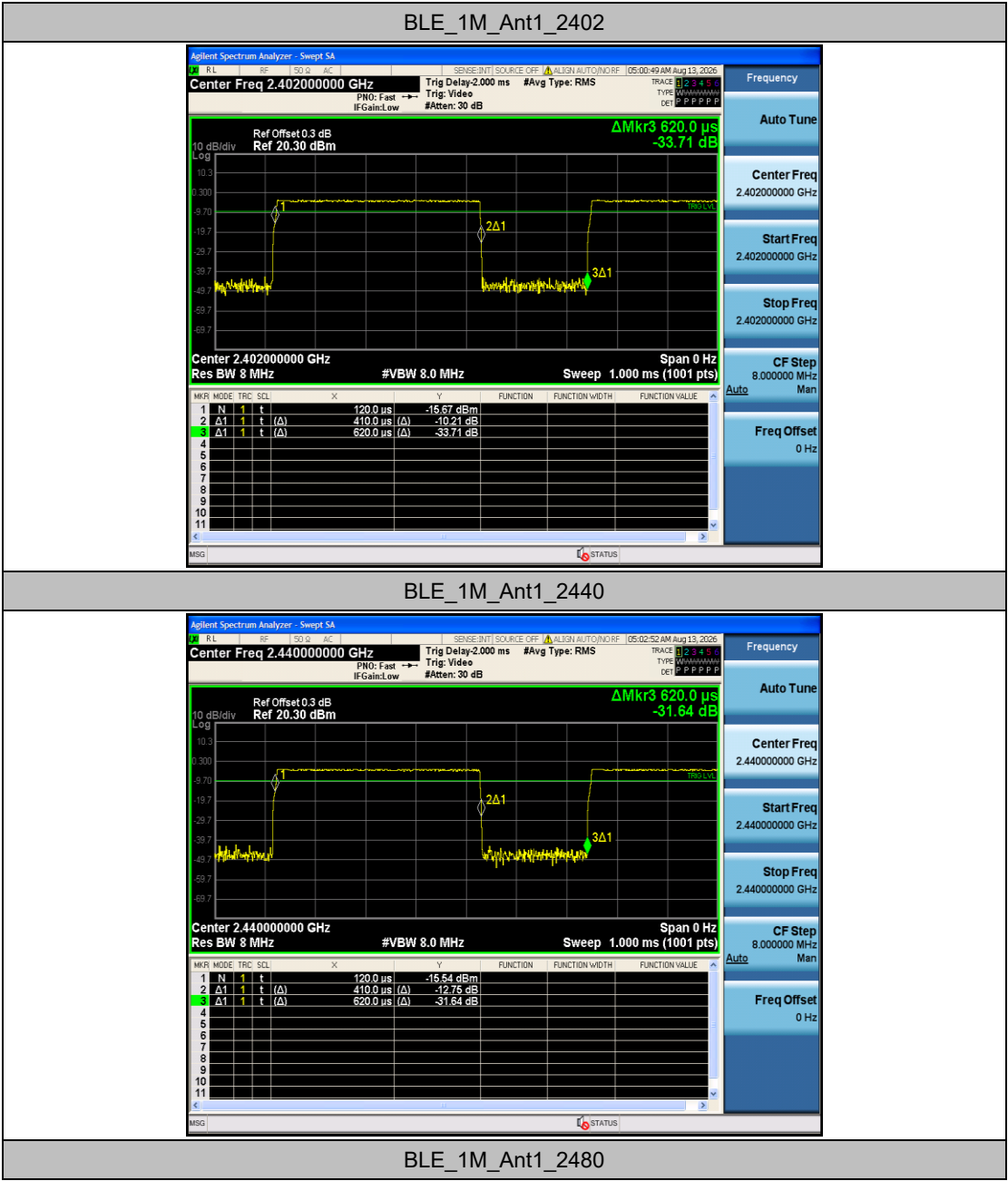


Appendix G: Duty Cycle

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





Appendix H: Emissions in Restricted Bands

Test Result

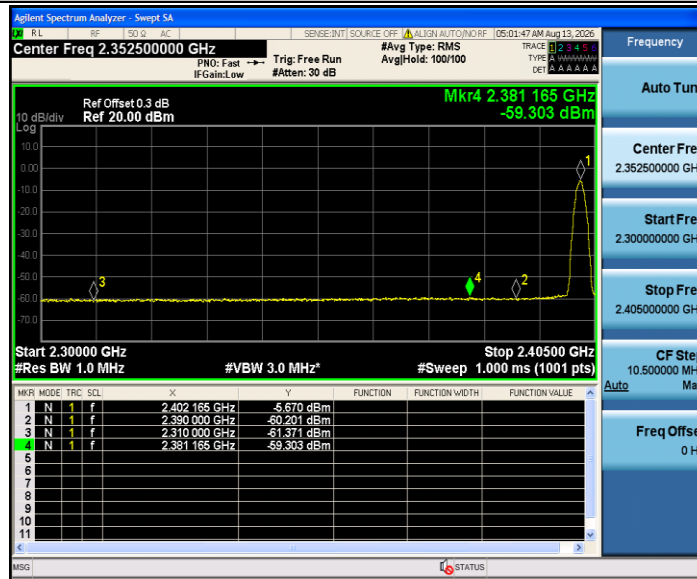
TestMod e	Antenn a	ChNam e	Freq(MH z)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-61.37	2.00	1.80	37.63	≤54	PASS
				AV	2381.165	-59.3	2.00	1.80	39.70	≤54	PASS
				AV	2390.000	-60.2	2.00	1.80	38.80	≤54	PASS
				Peak	2310.000	-53.55	2.00	0.00	43.65	≤74	PASS
				Peak	2326.670	-49.16	2.00	0.00	48.04	≤74	PASS
				Peak	2390.000	-53.59	2.00	0.00	43.61	≤74	PASS
		High	2480	AV	2483.500	-58.69	2.00	1.80	40.31	≤54	PASS
				AV	2484.880	-58.57	2.00	1.80	40.43	≤54	PASS
				AV	2500.000	-60.4	2.00	1.80	38.60	≤54	PASS
				Peak	2483.500	-50.97	2.00	0.00	46.23	≤74	PASS
				Peak	2484.400	-48.41	2.00	0.00	48.79	≤74	PASS
				Peak	2500.000	-50.08	2.00	0.00	47.12	≤74	PASS

Note:

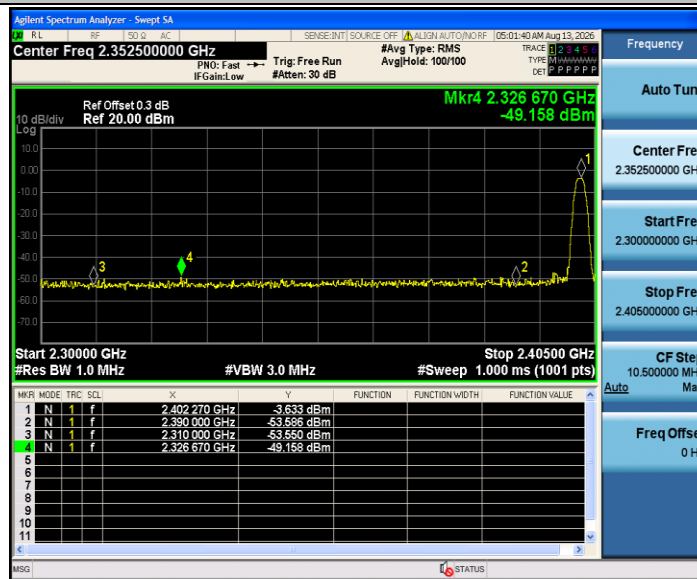
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

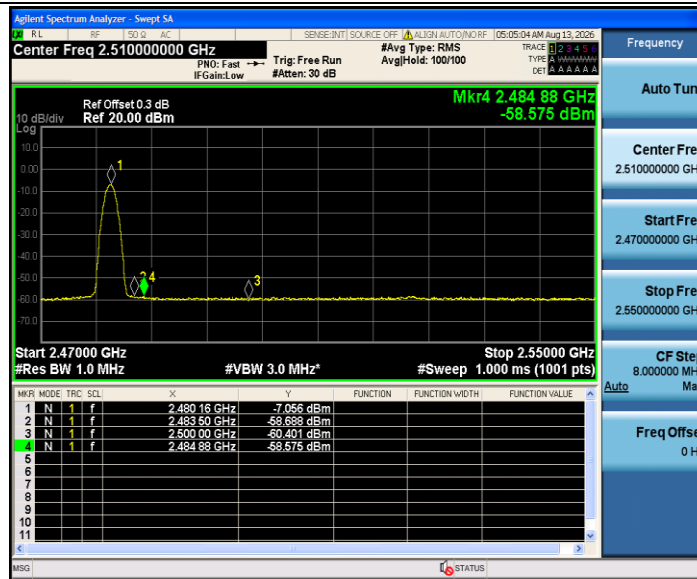
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

