

FCC Appendix RF Test Data for BLE

FCC ID : 2A5ZU-BTA700M

Company : Shenzhen Baojia Battery Technology Co.,Ltd.

EUT : miffy humidifier

Model Number : BTA700M

Report No. : CTA26013100101

Reviewed By : Eric Wang

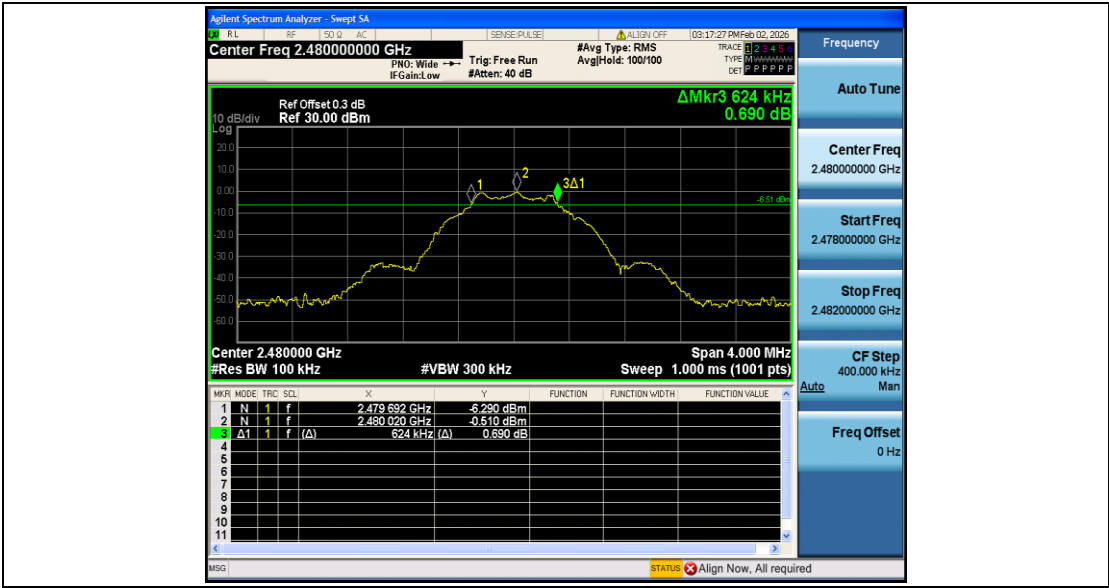
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.680	2402.344	0.5	PASS
		2440	0.644	2439.696	2440.340	0.5	PASS
		2480	0.624	2479.692	2480.316	0.5	PASS

Test Graphs





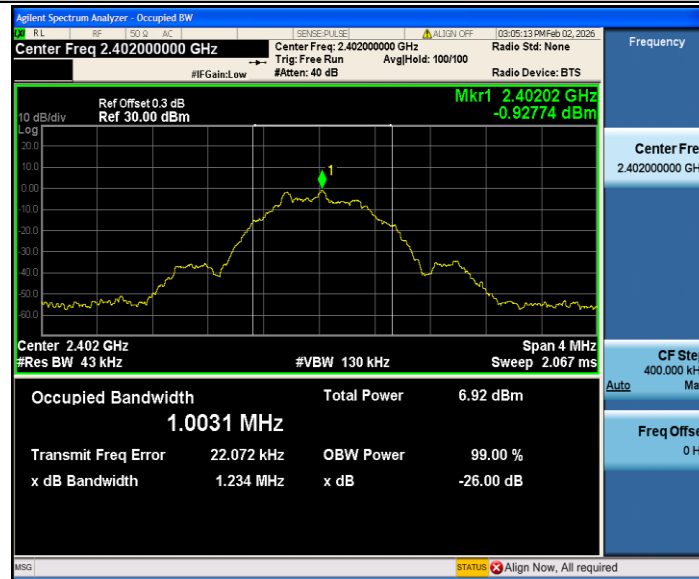
Appendix B: Occupied Channel Bandwidth

Test Result

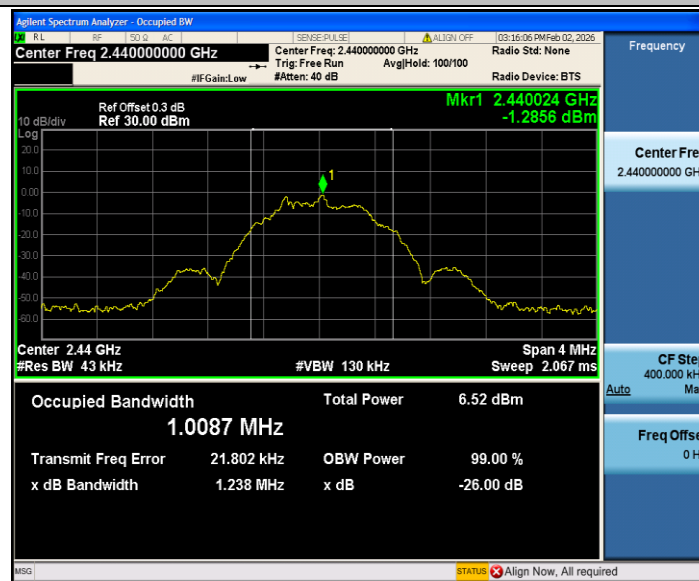
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0031	2401.5205	2402.5236	---	---
		2440	1.0087	2439.5175	2440.5262	---	---
		2480	1.0139	2479.5168	2480.5307	---	---

Test Graphs

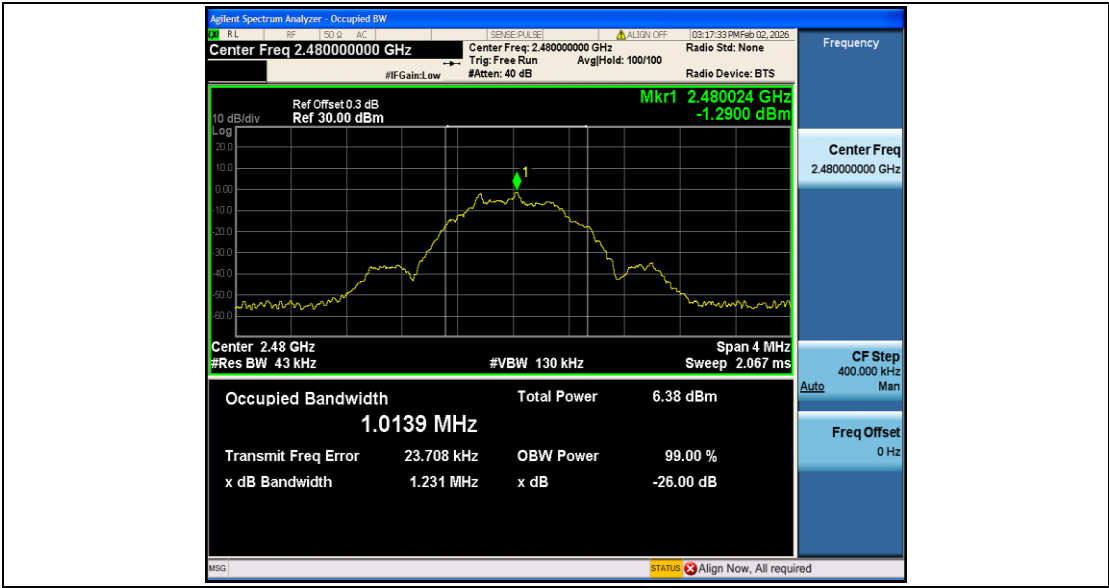
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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	0.00	≤30	PASS
		2440	-0.20	≤30	PASS
		2480	-0.22	≤30	PASS

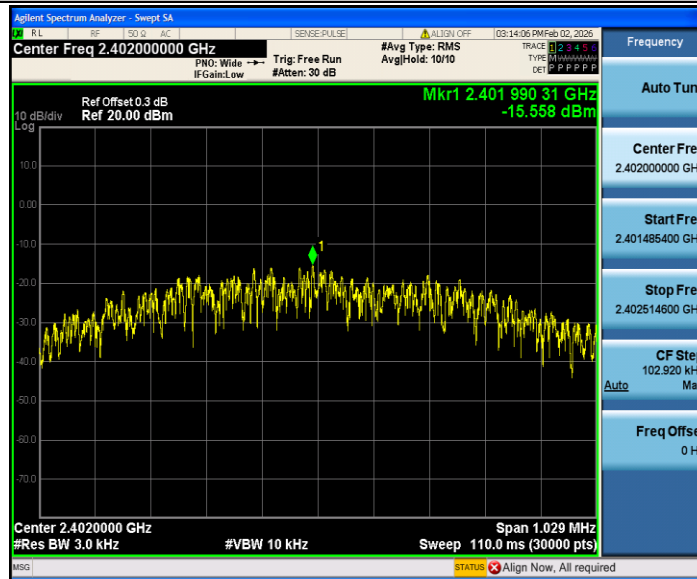
Appendix D: Maximum power spectral density

Test Result

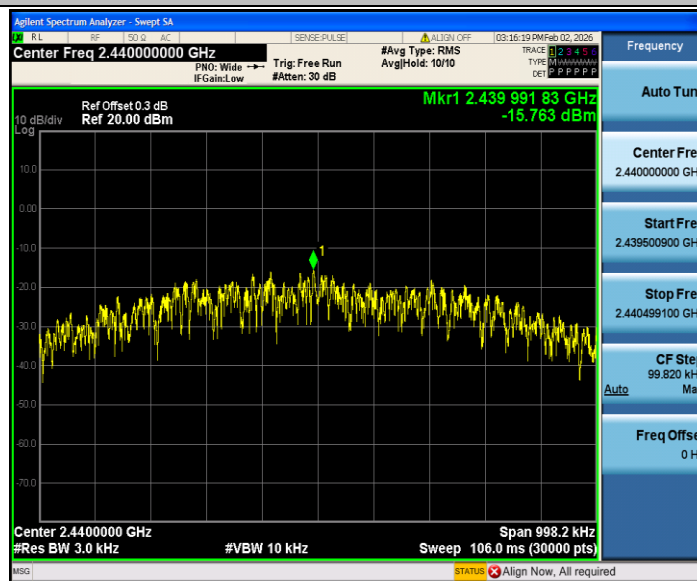
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.56	≤8.00	PASS
		2440	-15.76	≤8.00	PASS
		2480	-15.97	≤8.00	PASS

Test Graphs

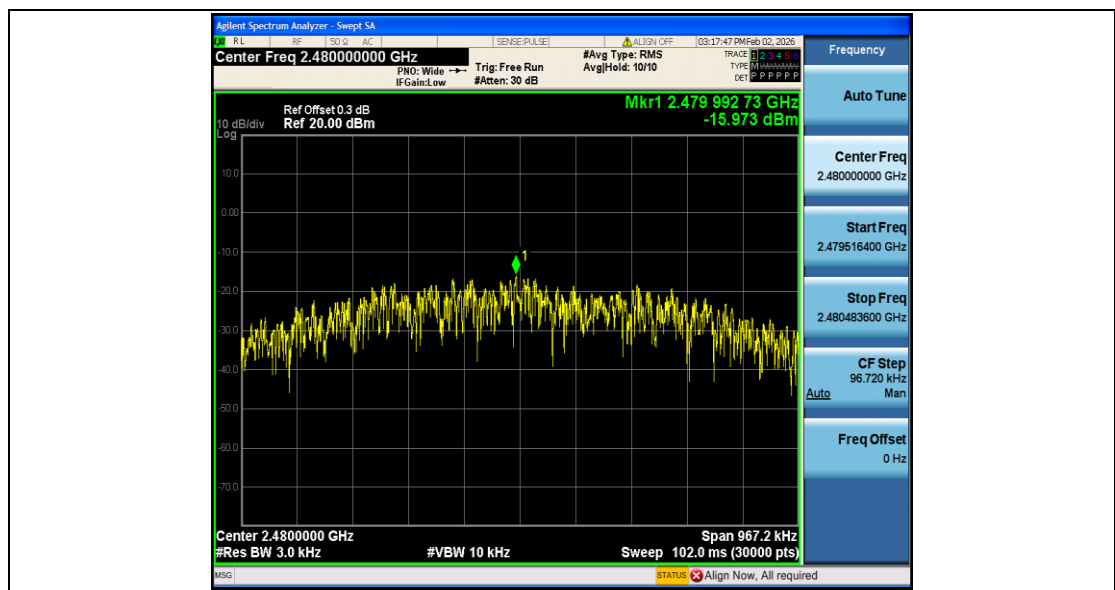
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

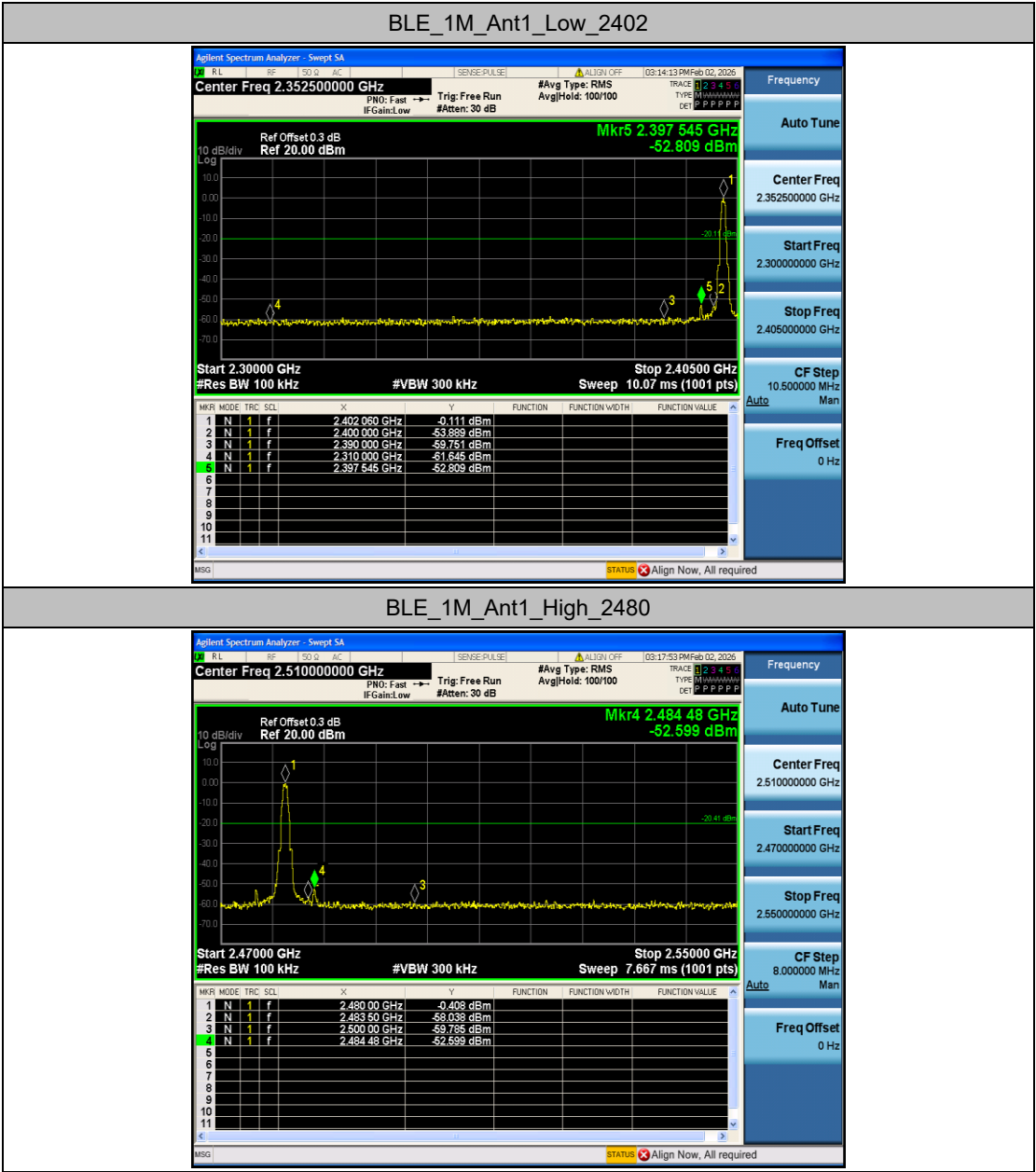


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.11	-52.81	≤-20.11	PASS
		High	2480	-0.41	-52.6	≤-20.41	PASS

Test Graphs

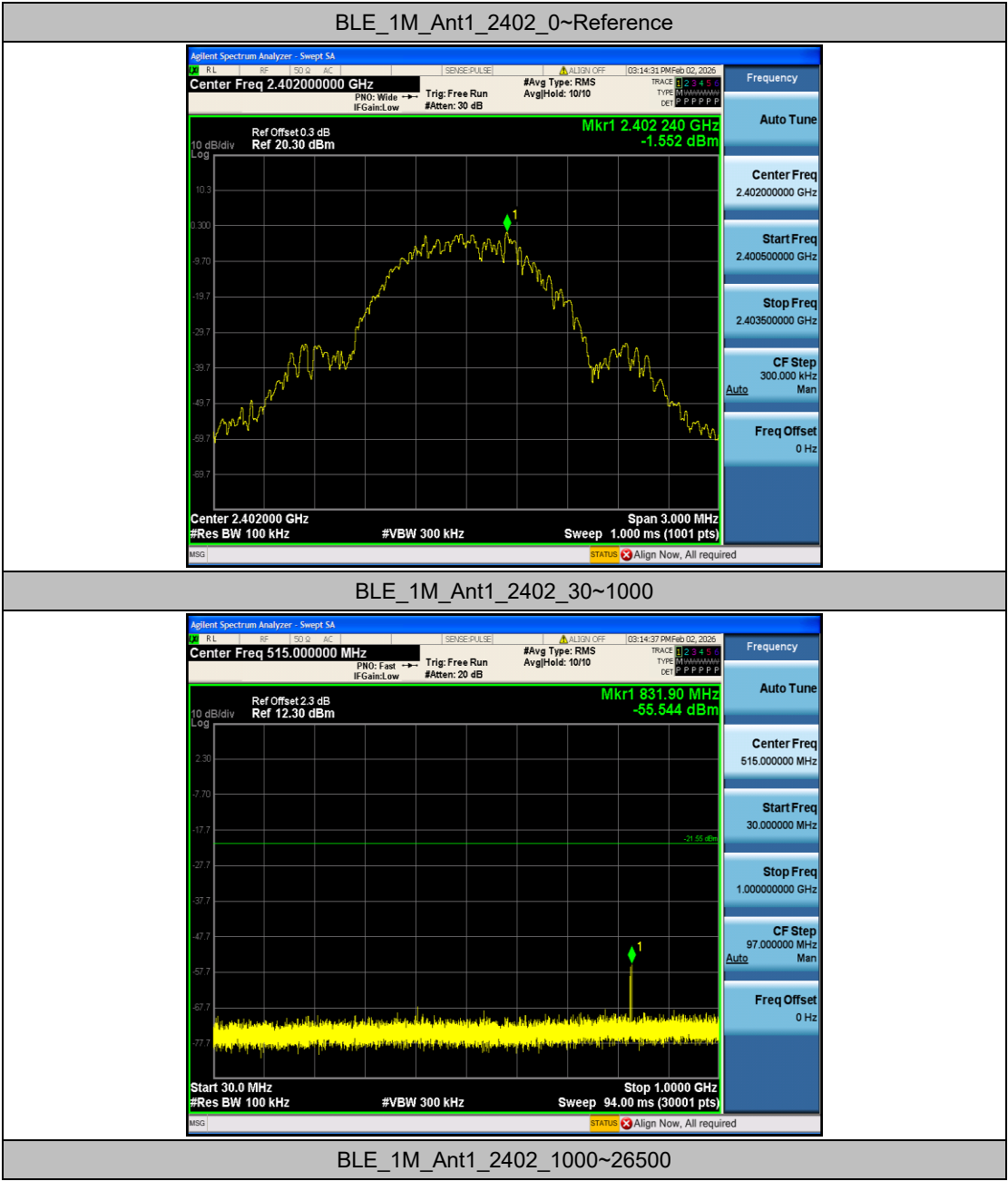


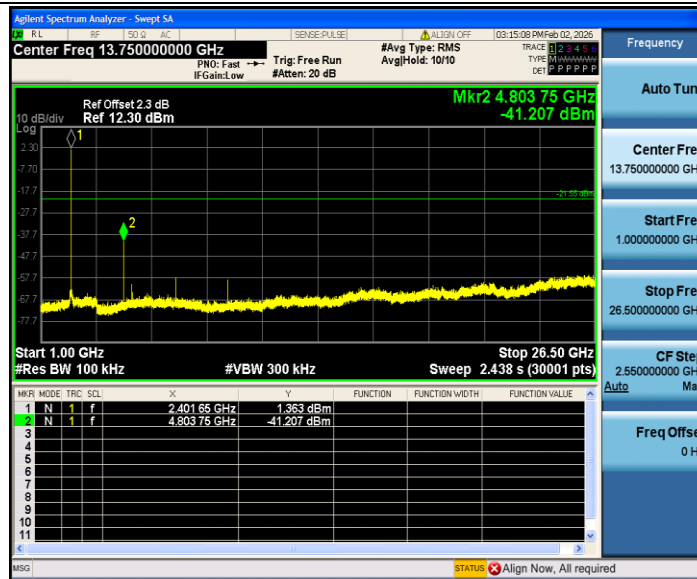
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.55	-1.55	---	PASS
			30~1000	-1.55	-55.54	≤-21.55	PASS
			1000~26500	-1.55	-41.21	≤-21.55	PASS
		2440	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-64.04	≤-21.61	PASS
			1000~26500	-1.61	-43.73	≤-21.61	PASS
		2480	Reference	-1.74	-1.74	---	PASS
			30~1000	-1.74	-68.46	≤-21.74	PASS
			1000~26500	-1.74	-43.85	≤-21.74	PASS

Test Graphs

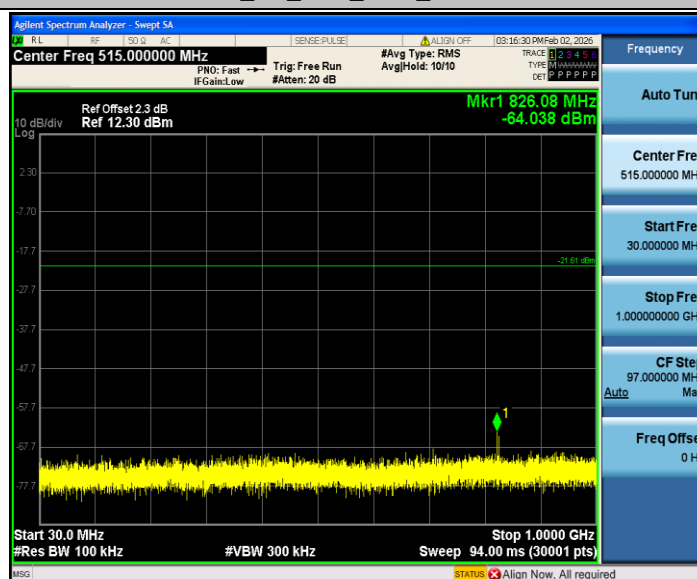




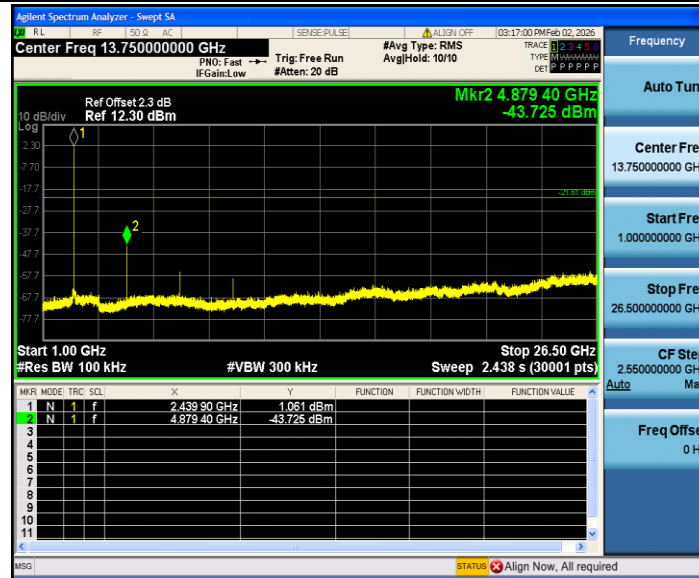
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



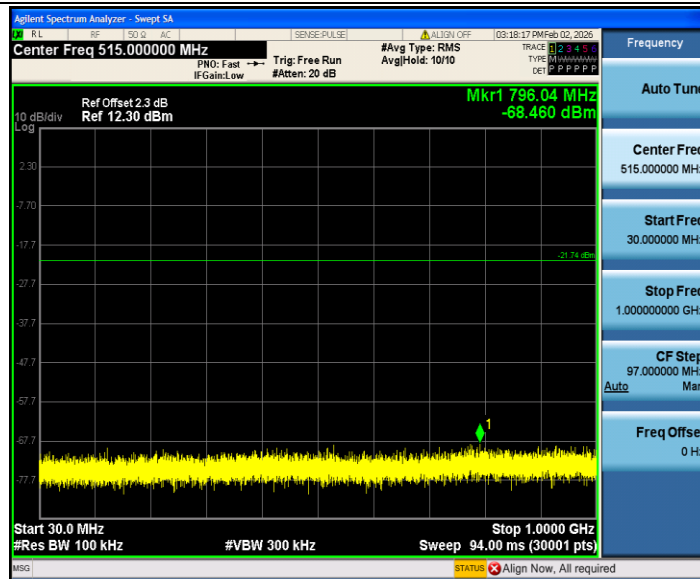
BLE_1M_Ant1_2440_1000~26500



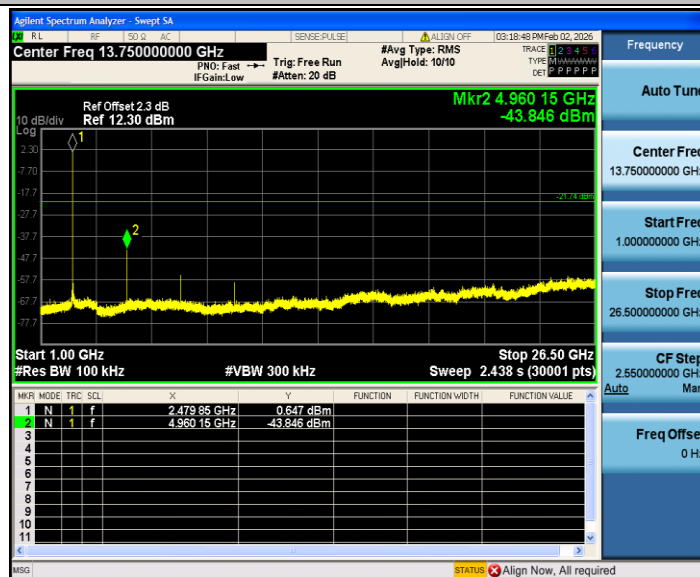
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

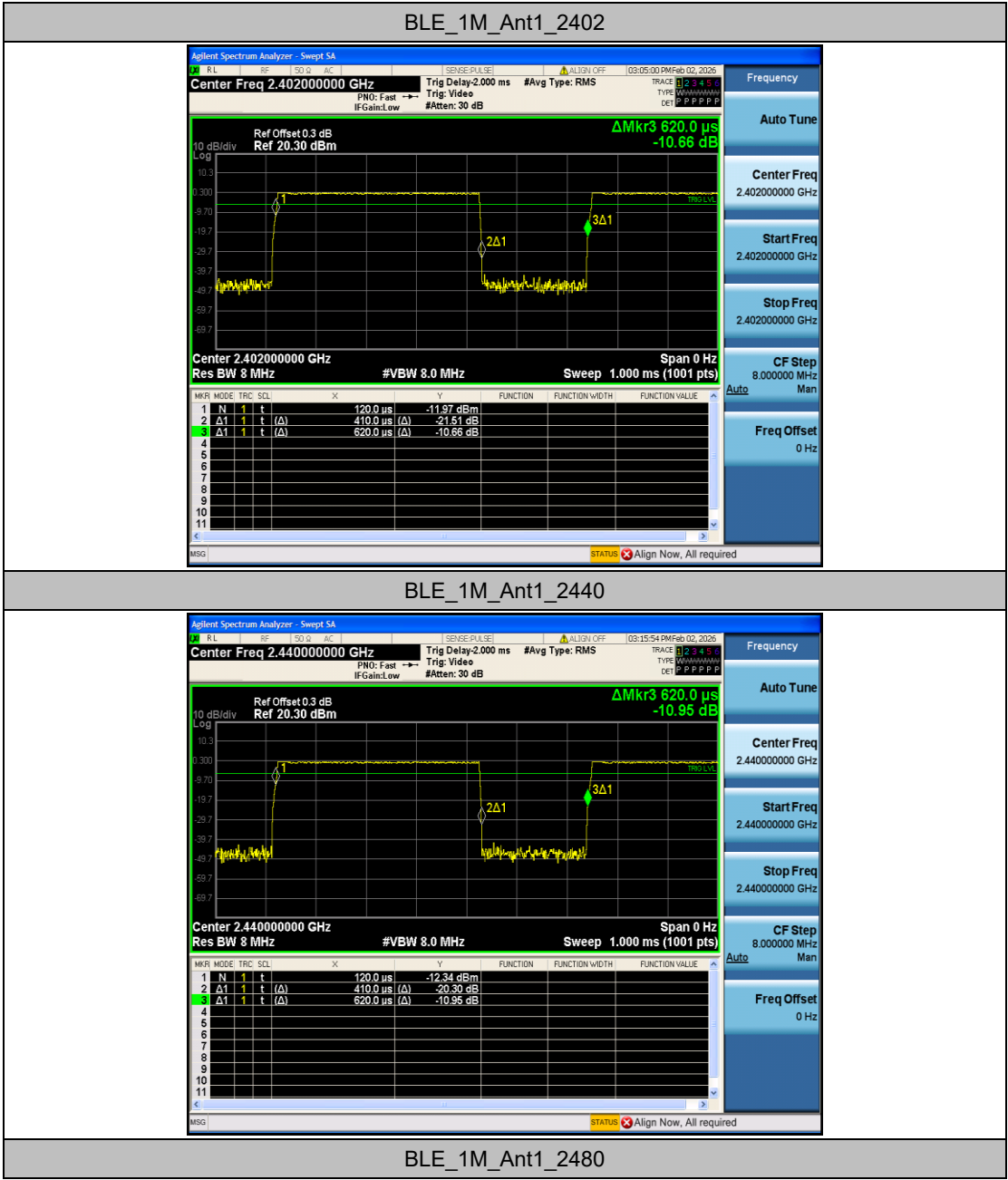


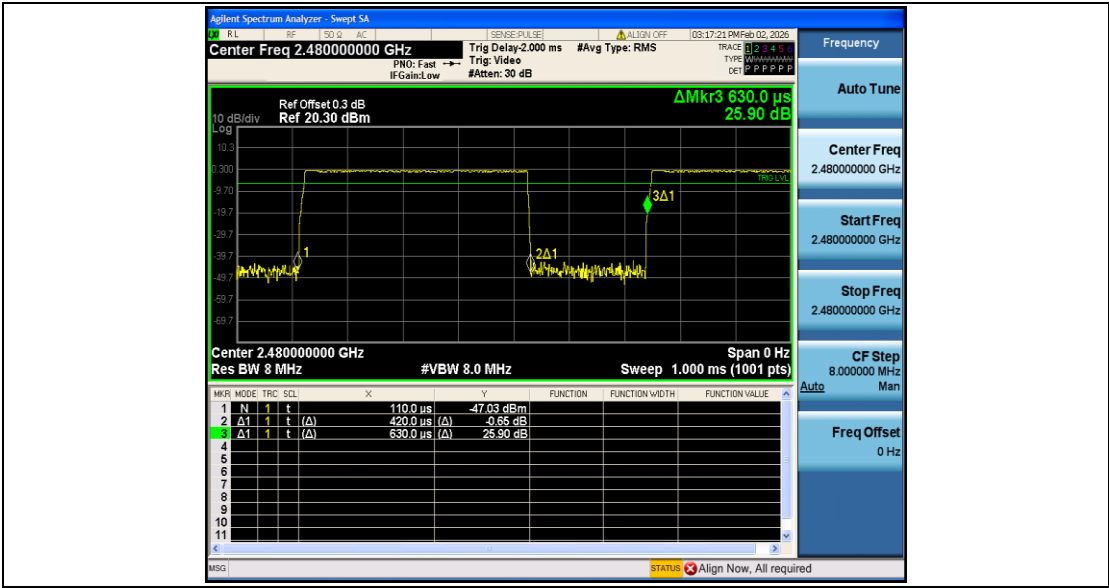
Appendix G: Duty Cycle

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	0.42	0.63	0.6667	66.67	1.76	---	---

Test Graphs





Appendix H: Emissions in Restricted Bands

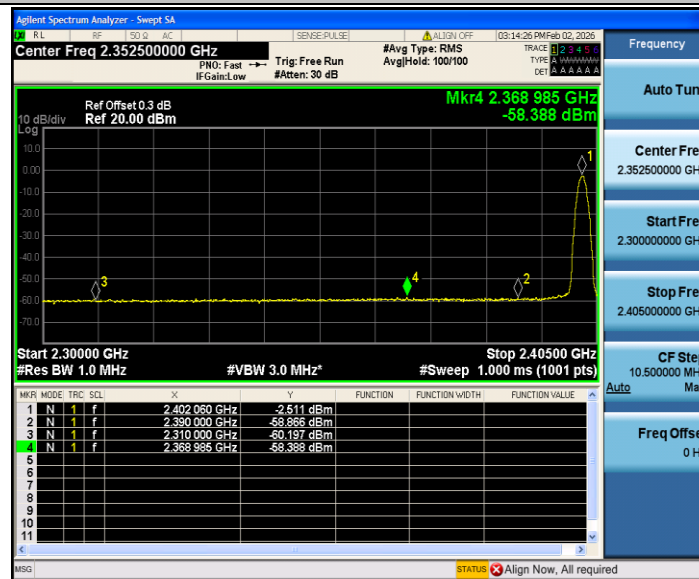
Test Result

TestMode	Antenna	Channel Name	Freq(MHz)	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	-60.2	2.00	1.80	38.80	≤54	PASS
				AV	2368.985	-58.39	2.00	1.80	40.61	≤54	PASS
				AV	2390.000	-58.87	2.00	1.80	40.13	≤54	PASS
				Peak	2310.000	-53.48	2.00	0.00	43.72	≤74	PASS
				Peak	2385.050	-48.52	2.00	0.00	48.68	≤74	PASS
				Peak	2390.000	-51.78	2.00	0.00	45.42	≤74	PASS
		High	2480	AV	2483.500	-57.29	2.00	1.76	41.67	≤54	PASS
				AV	2483.600	-56.91	2.00	1.76	42.05	≤54	PASS
				AV	2500.000	-59.41	2.00	1.76	39.55	≤54	PASS
				Peak	2483.500	-47.61	2.00	0.00	49.59	≤74	PASS
				Peak	2484.400	-45.07	2.00	0.00	52.13	≤74	PASS
				Peak	2500.000	-50.95	2.00	0.00	46.25	≤74	PASS

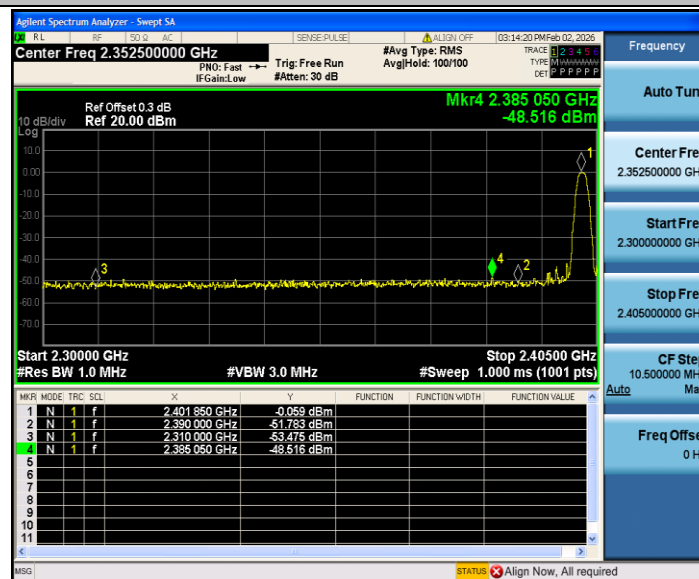
Note: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

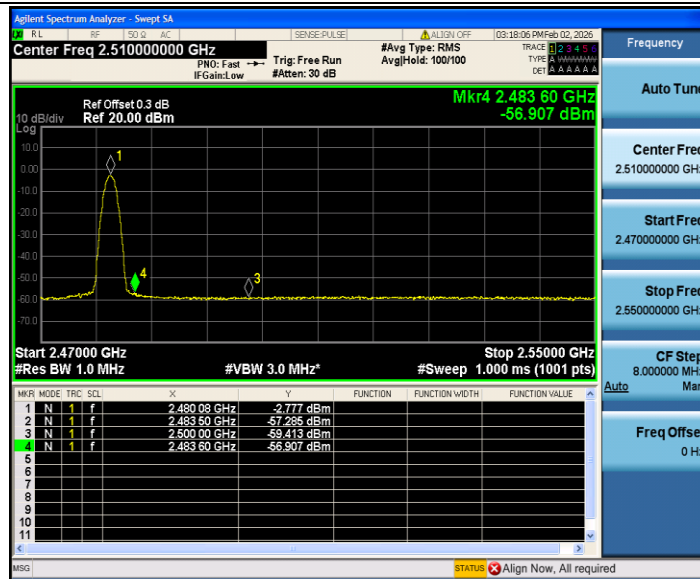
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

