

FCC Appendix RF Test Data for BLE

FCC ID : 2BLVO-XENO

Company : Guangzhou JiDongTai Intelligent Equipment Co.,LTD

EUT : XENO Electric unicycle

Model Number : XENO

Report No. : CTA26042000301

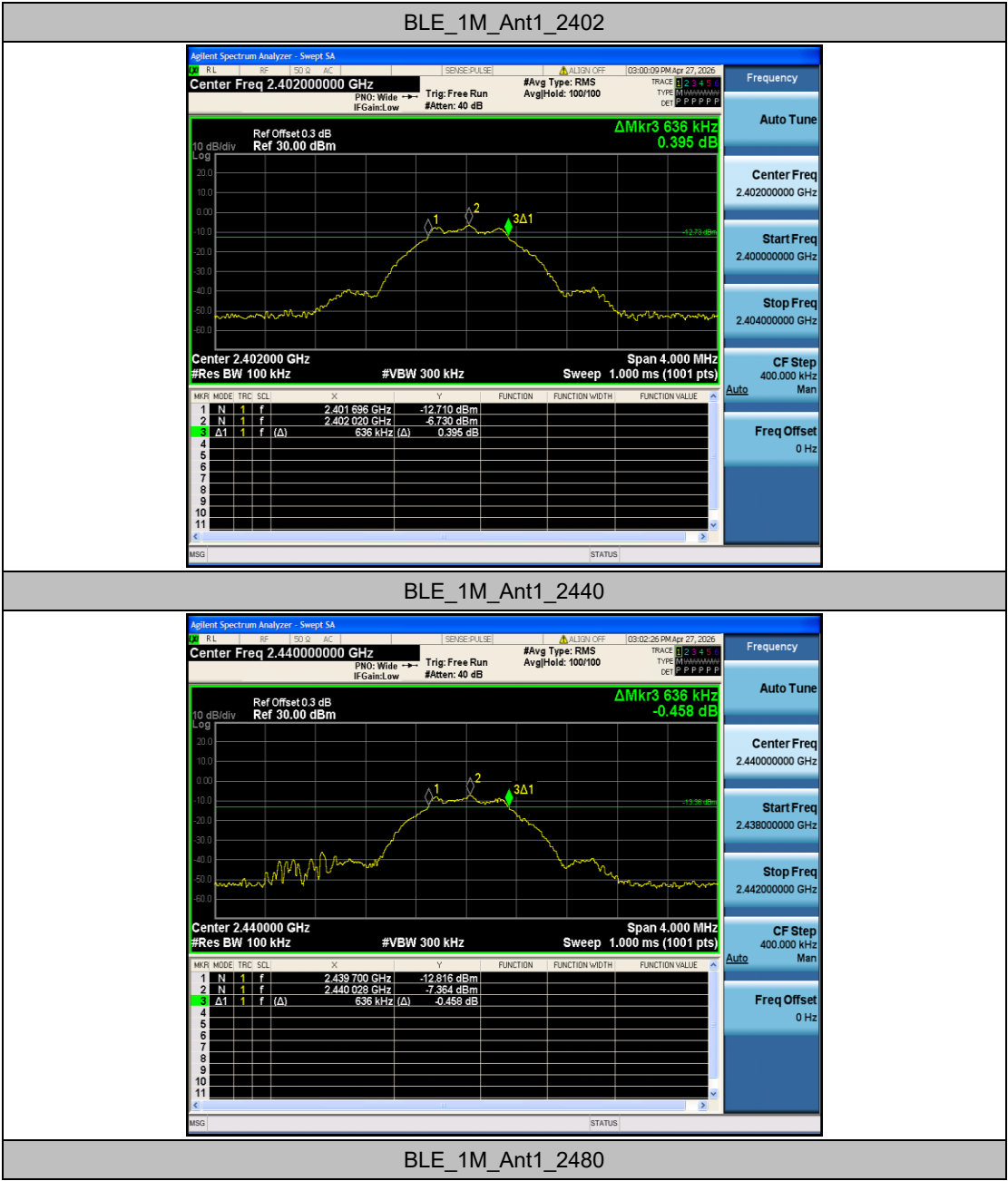
Reviewed By : Eric Wang

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	2401.696	2402.332	0.5	PASS
		2440	0.636	2439.700	2440.336	0.5	PASS
		2480	0.628	2479.696	2480.324	0.5	PASS

Test Graphs





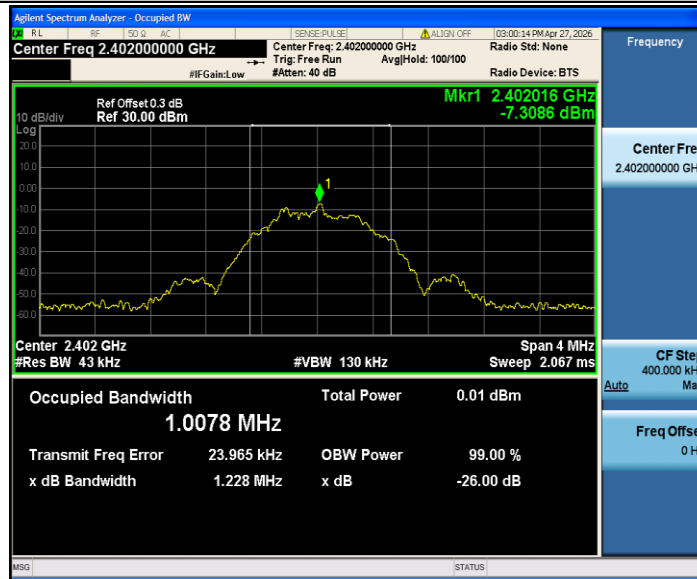
Appendix B: Occupied Channel Bandwidth

Test Result

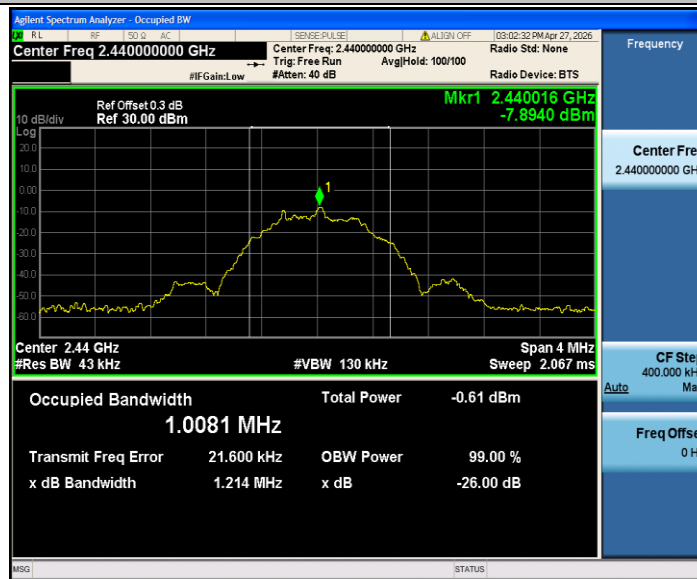
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0078	2401.5201	2402.5279	---	---
		2440	1.0081	2439.5176	2440.5257	---	---
		2480	1.0113	2479.5160	2480.5273	---	---

Test Graphs

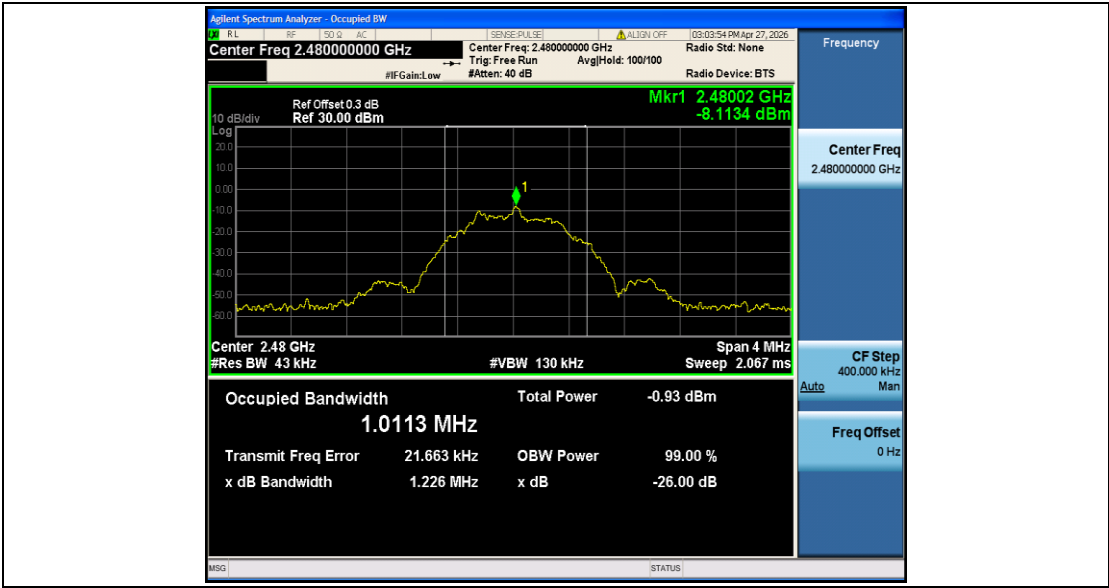
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

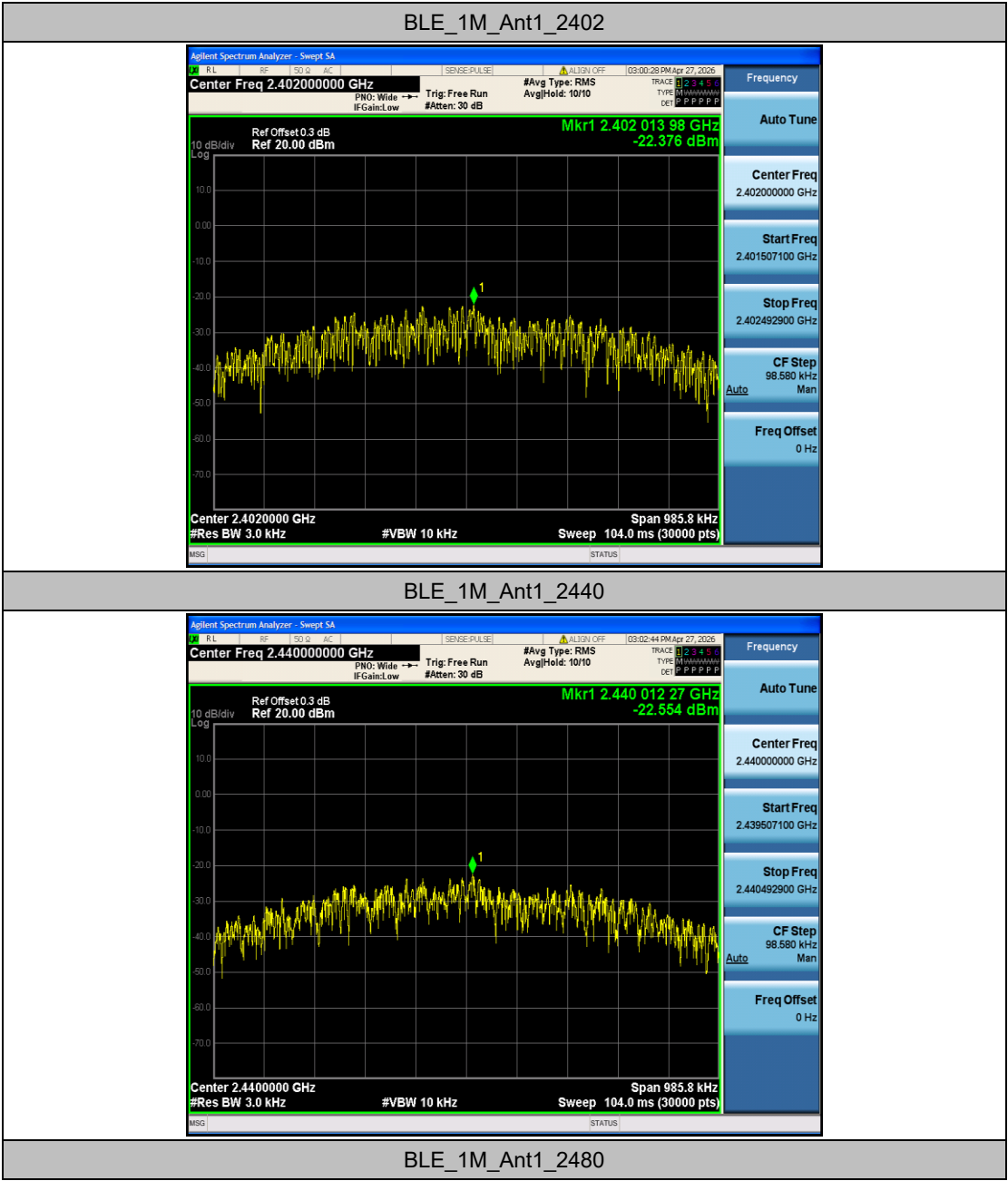
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-6.50	≤30	PASS
		2440	-7.07	≤30	PASS
		2480	-7.39	≤30	PASS

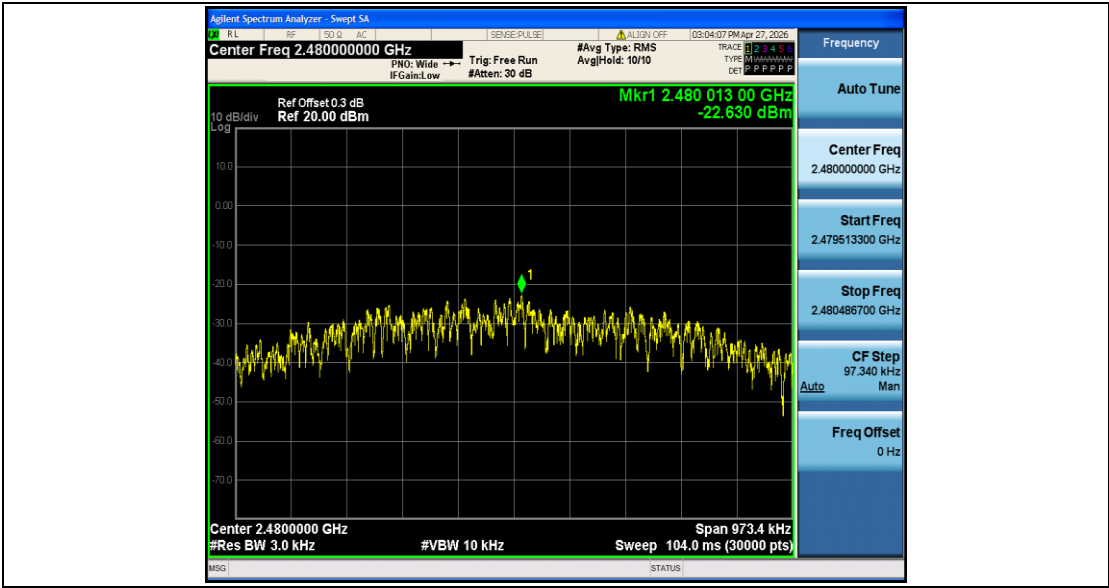
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-22.38	≤8.00	PASS
		2440	-22.55	≤8.00	PASS
		2480	-22.63	≤8.00	PASS

Test Graphs



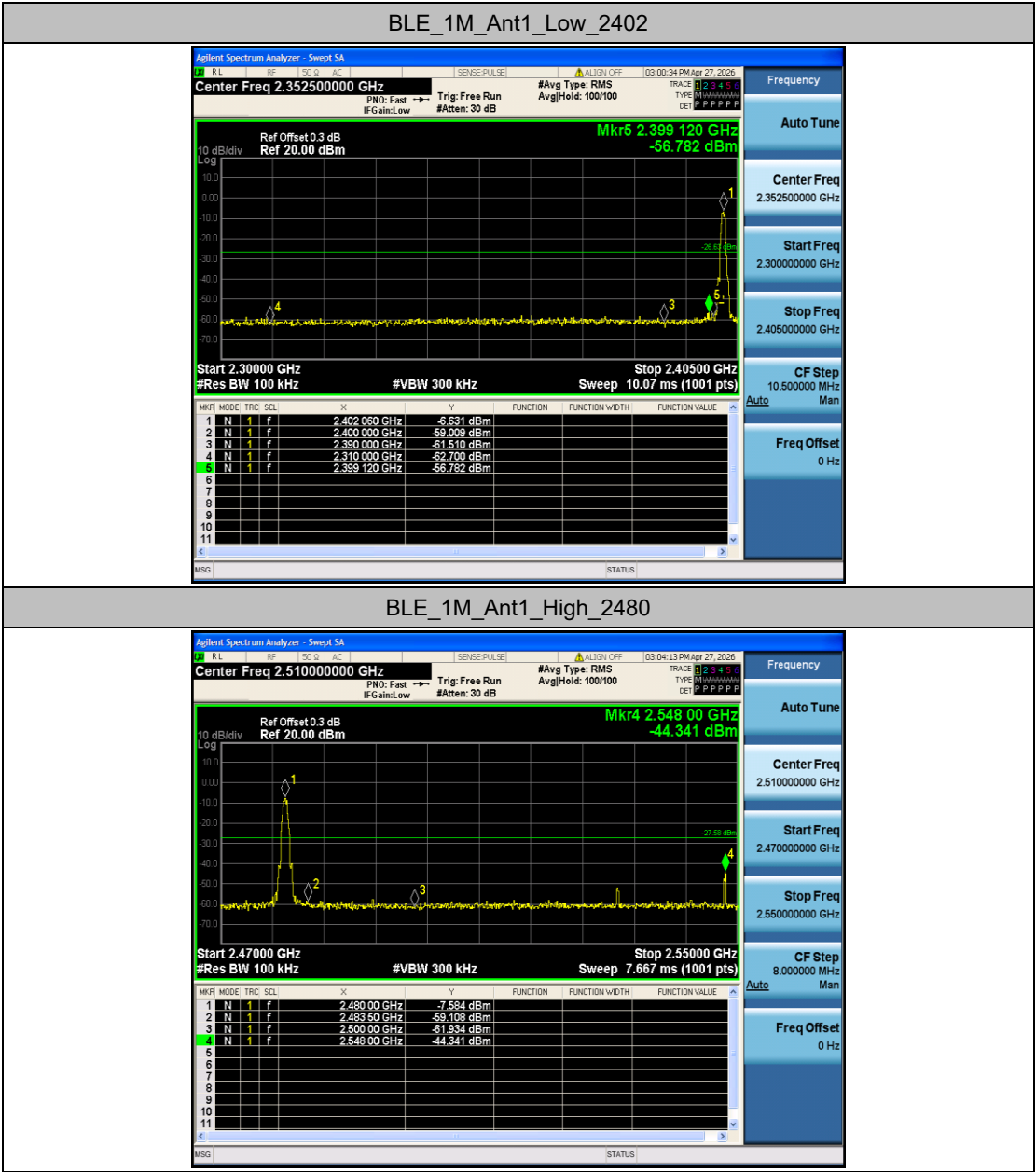


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-6.63	-56.78	≤-26.63	PASS
		High	2480	-7.58	-44.34	≤-27.58	PASS

Test Graphs



Appendix F: Conducted Spurious Emission

Test Result

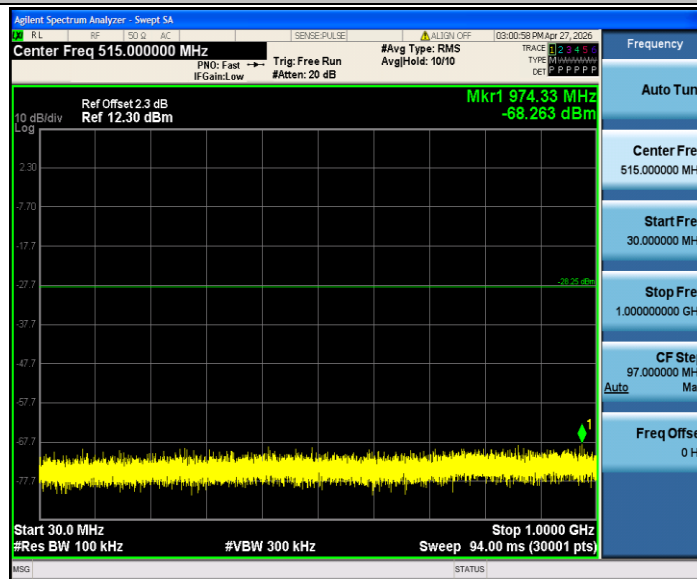
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-8.25	-8.25	---	PASS
			30~1000	-8.25	-68.26	≤-28.25	PASS
			1000~26500	-8.25	-51.81	≤-28.25	PASS
		2440	Reference	-9.22	-9.22	---	PASS
			30~1000	-9.22	-67.75	≤-29.22	PASS
			1000~26500	-9.22	-55.63	≤-29.22	PASS
		2480	Reference	-8.39	-8.39	---	PASS
			30~1000	-8.39	-67.98	≤-28.39	PASS
			1000~26500	-8.39	-52.22	≤-28.39	PASS

Test Graphs

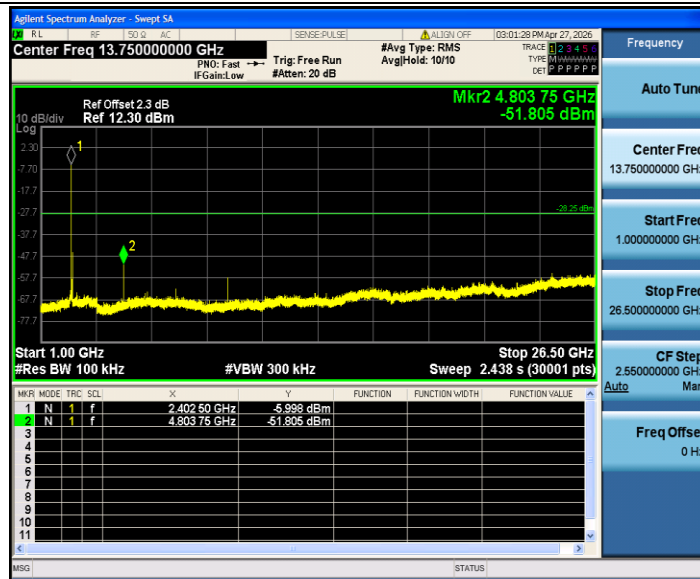
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



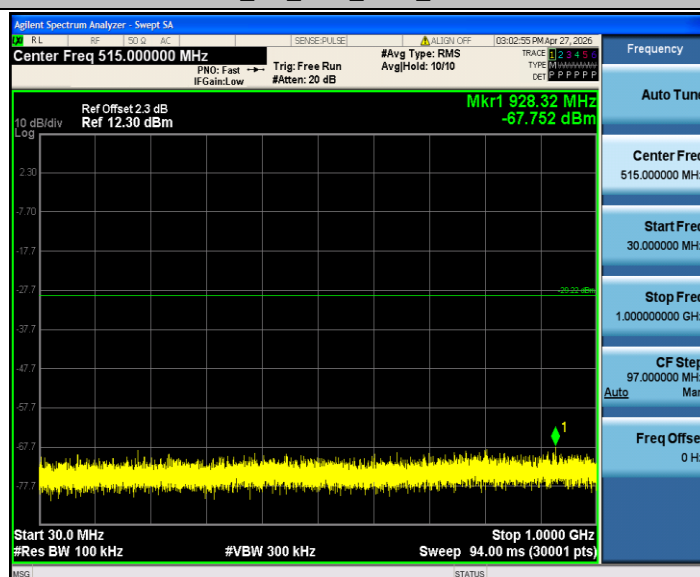
BLE_1M_Ant1_2402_1000~26500



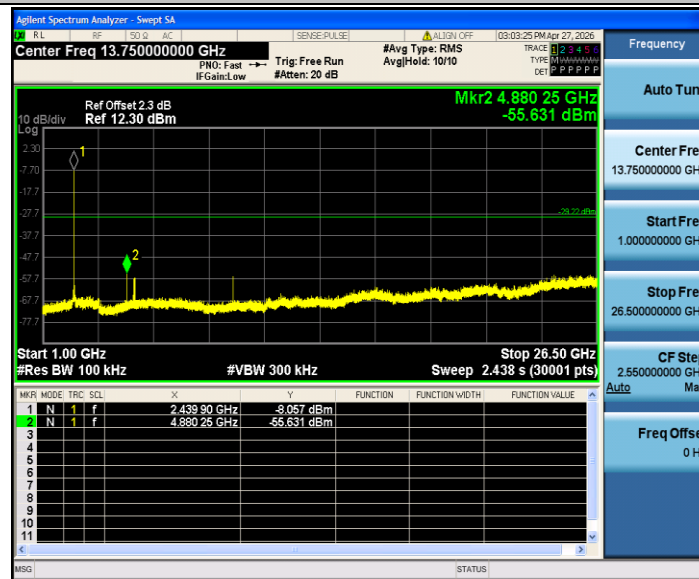
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



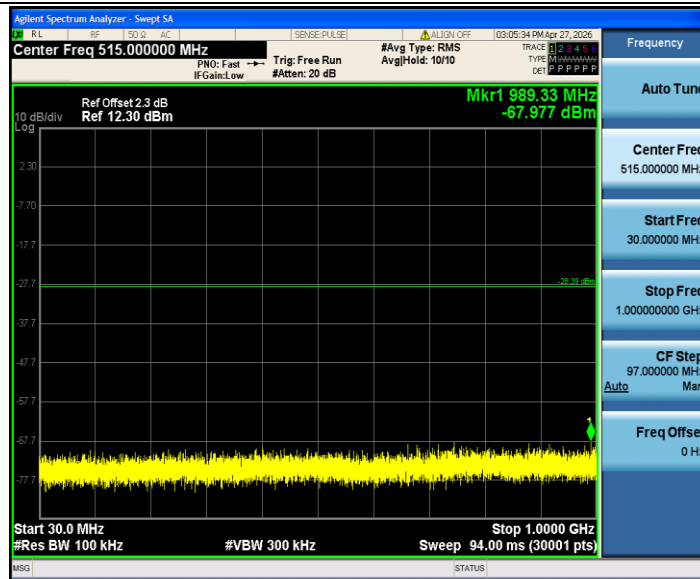
BLE_1M_Ant1_2440_1000~26500



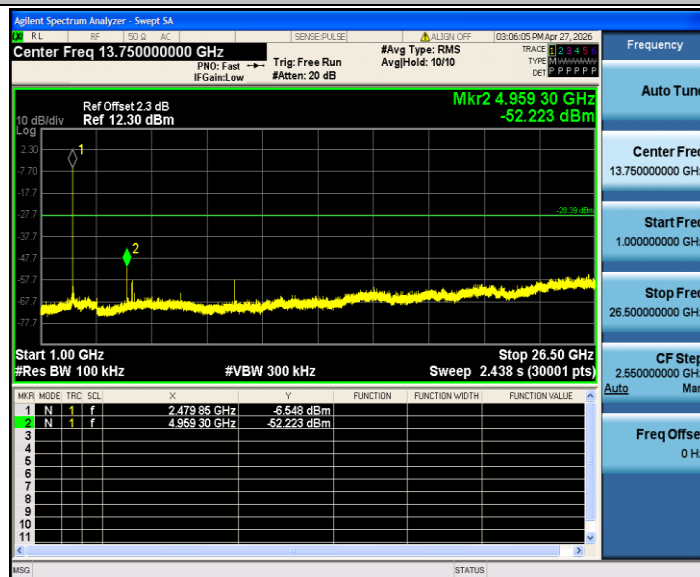
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

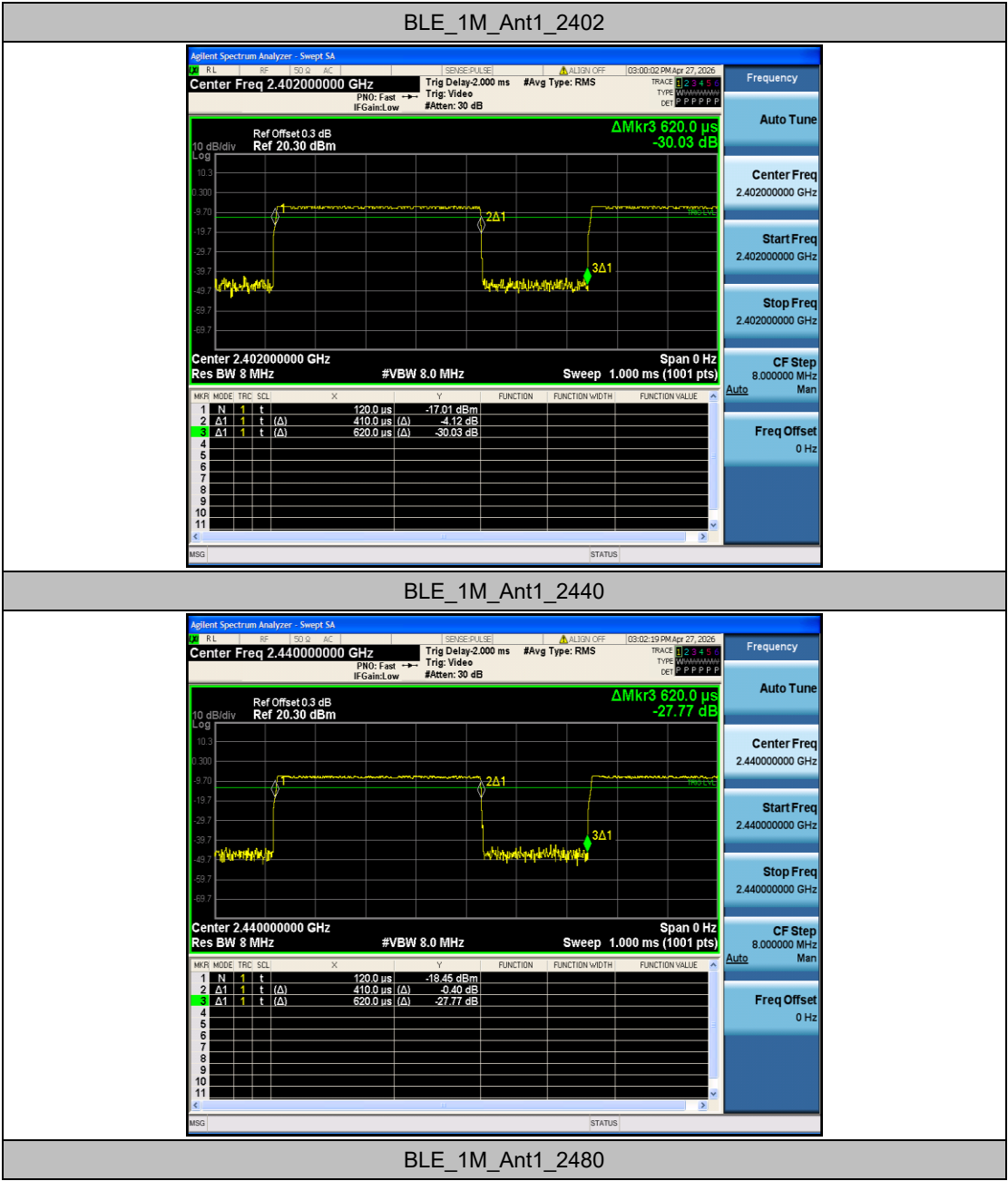


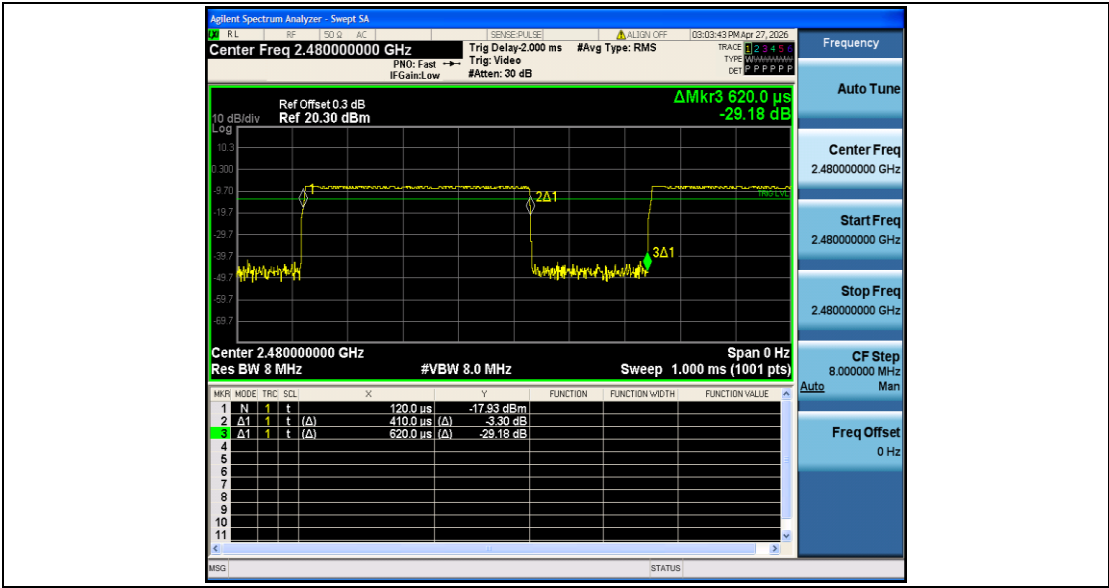
Appendix G: Duty Cycle

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

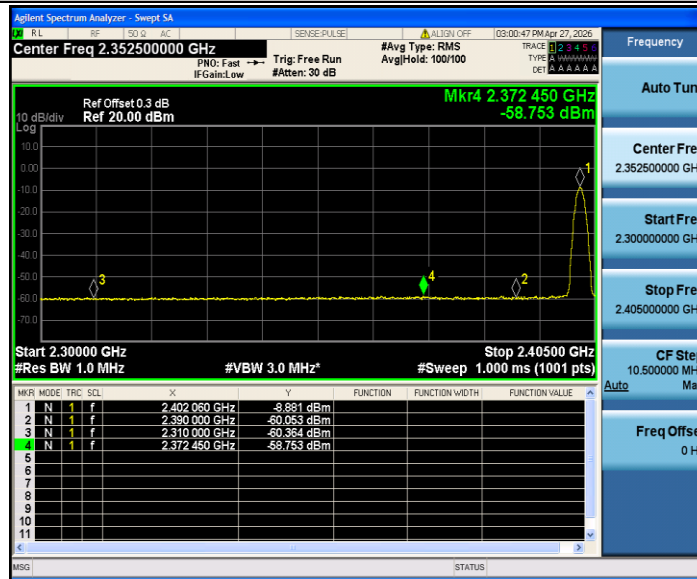
TestMode	Antenna	Channel	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-60.36	2.00	1.80	38.64	≤54	PASS
				AV	2372.450	-58.75	2.00	1.80	40.25	≤54	PASS
				AV	2390.000	-60.05	2.00	1.80	38.95	≤54	PASS
				Peak	2310.000	-53.15	2.00	0.00	44.05	≤74	PASS
				Peak	2370.560	-49.14	2.00	0.00	48.06	≤74	PASS
				Peak	2390.000	-51.99	2.00	0.00	45.21	≤74	PASS
		High	2480	AV	2483.500	-58.61	2.00	1.80	40.39	≤54	PASS
				AV	2483.600	-57.88	2.00	1.80	41.12	≤54	PASS
				AV	2500.000	-58.93	2.00	1.80	40.07	≤54	PASS
				Peak	2483.500	-51.04	2.00	0.00	46.16	≤74	PASS
				Peak	2495.440	-48.26	2.00	0.00	48.94	≤74	PASS
				Peak	2500.000	-51.2	2.00	0.00	46.00	≤74	PASS

Note:

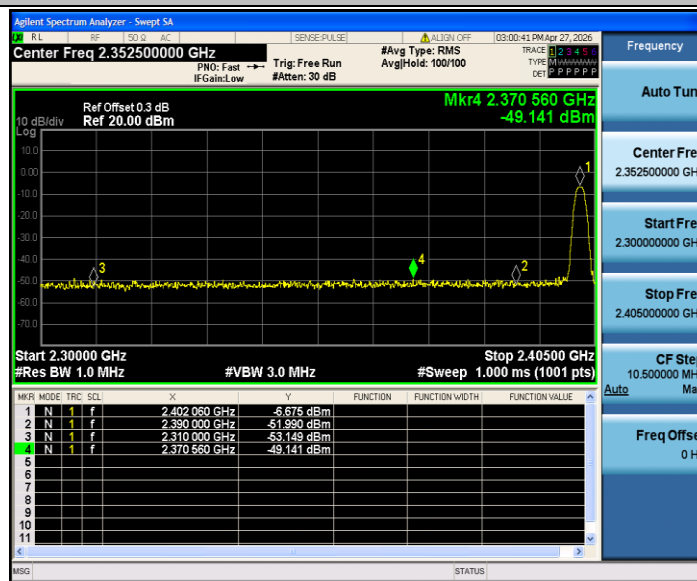
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

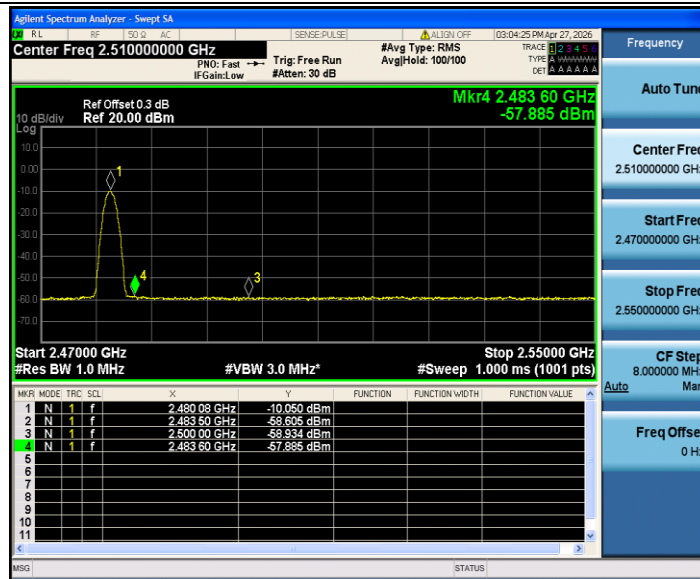
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

