

FCC Appendix RF Test Data for BLE

FCC ID : 2BXCE-L1

Company : Guangdong Yuetuo Internet Technology Co., Ltd

EUT : TV BOX

Model Number : L1

Report No. : CTA26062300701

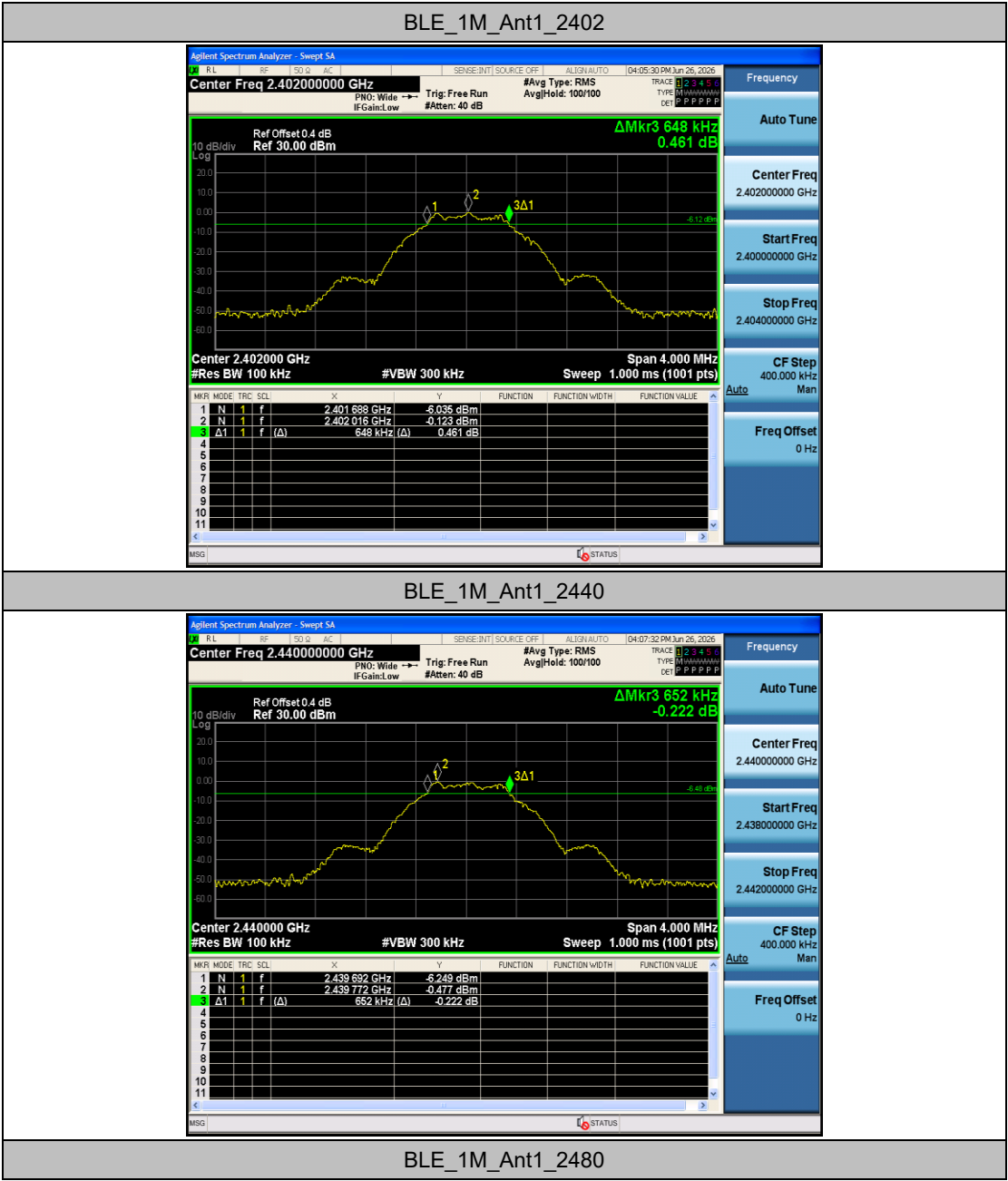
Reviewed By : Eric Wang

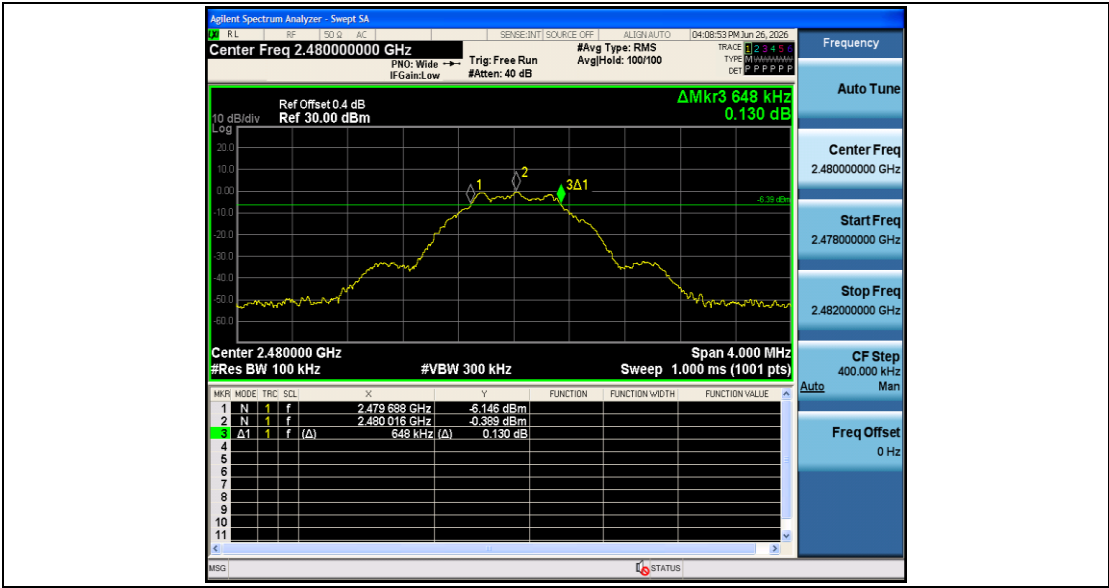
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.688	2402.336	0.5	PASS
		2440	0.652	2439.692	2440.344	0.5	PASS
		2480	0.648	2479.688	2480.336	0.5	PASS

Test Graphs



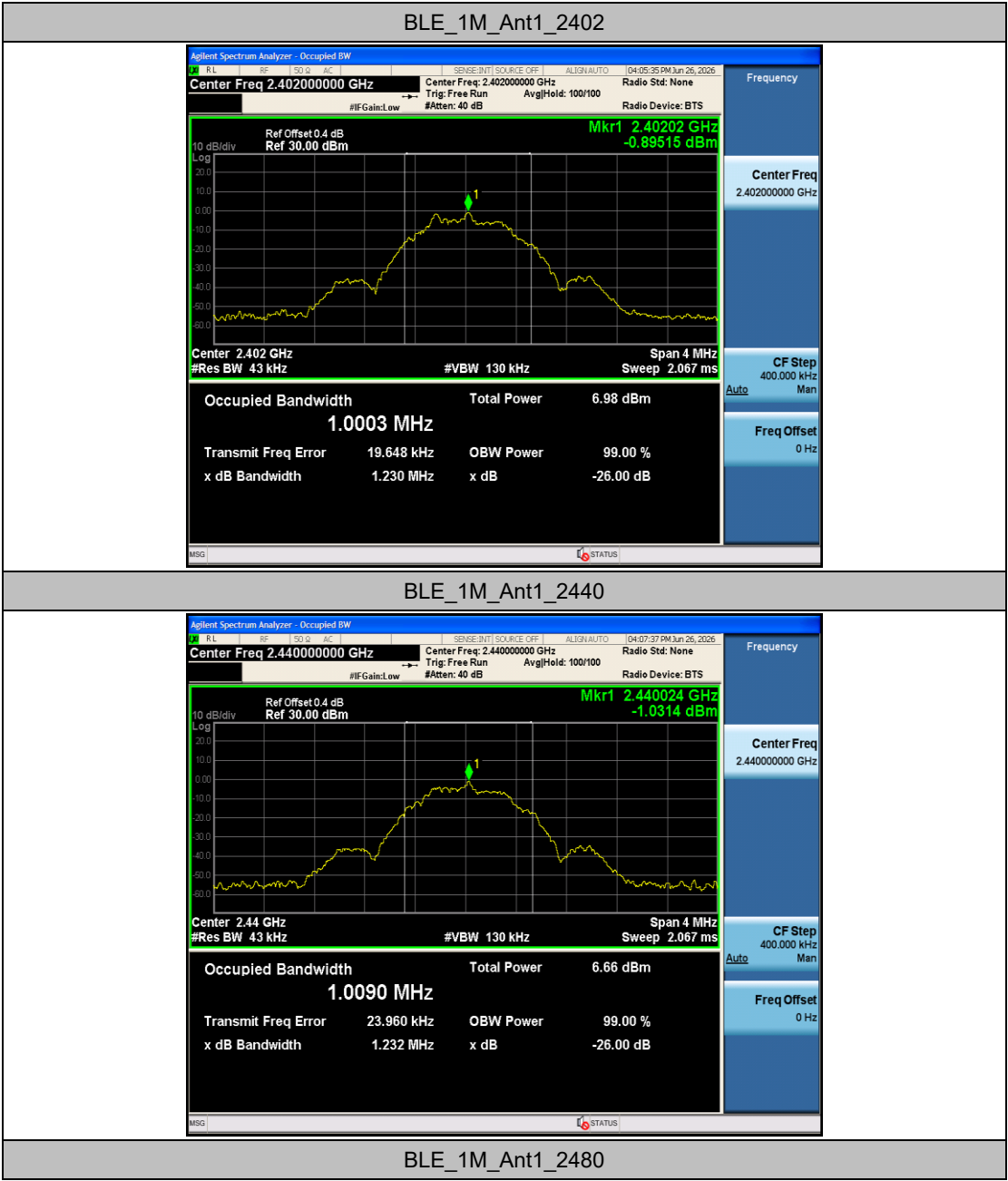


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0003	2401.5195	2402.5198	---	---
		2440	1.0090	2439.5195	2440.5285	---	---
		2480	1.0063	2479.5165	2480.5228	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

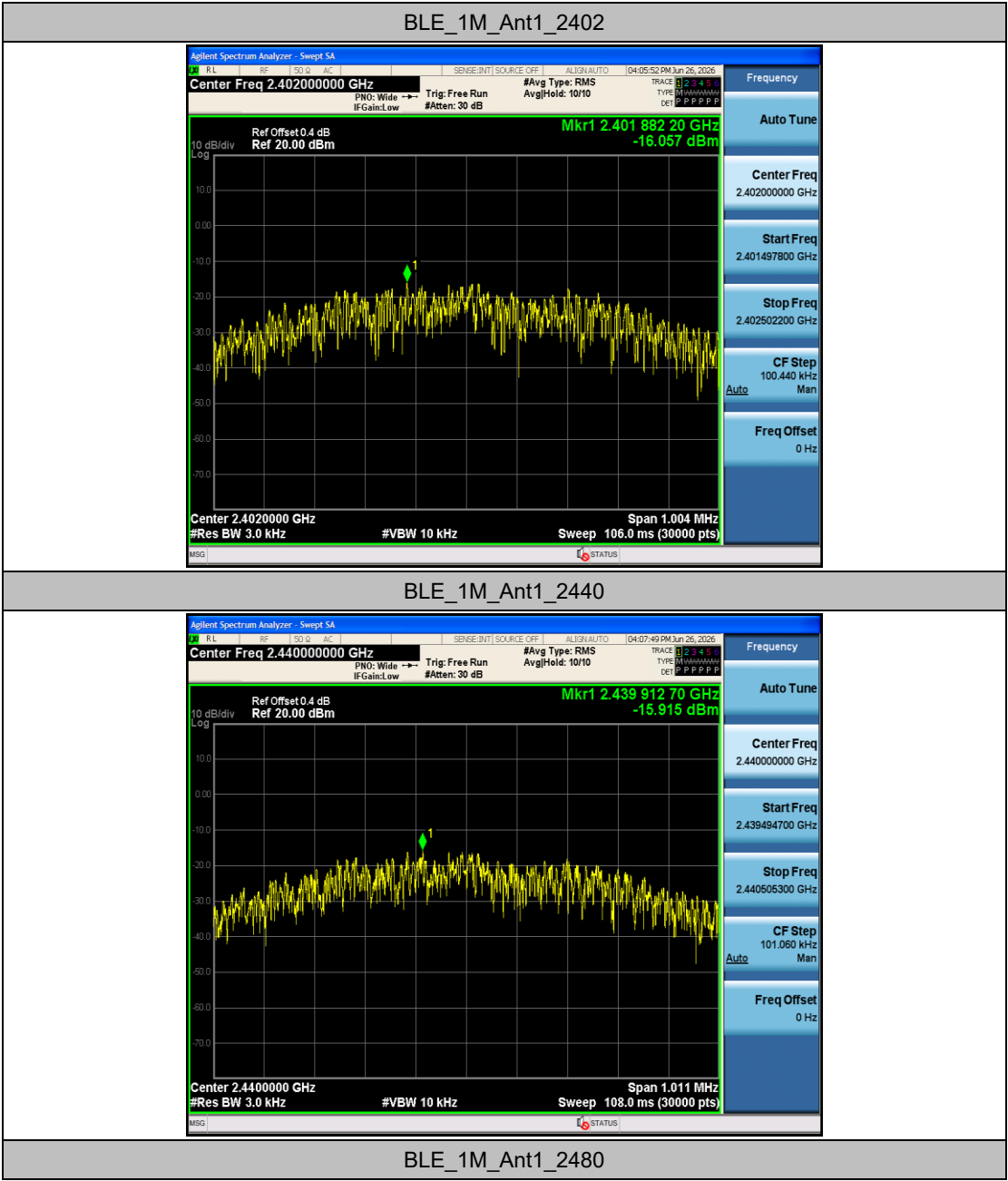
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.10	≤30	PASS
		2440	0.04	≤30	PASS
		2480	-0.22	≤30	PASS

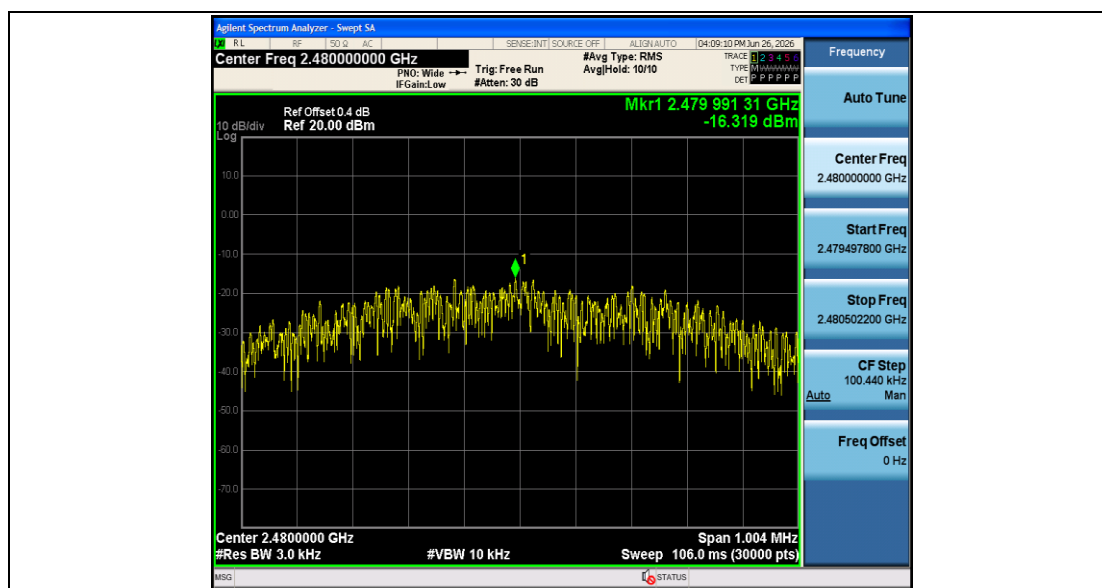
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.06	≤8.00	PASS
		2440	-15.92	≤8.00	PASS
		2480	-16.32	≤8.00	PASS

Test Graphs



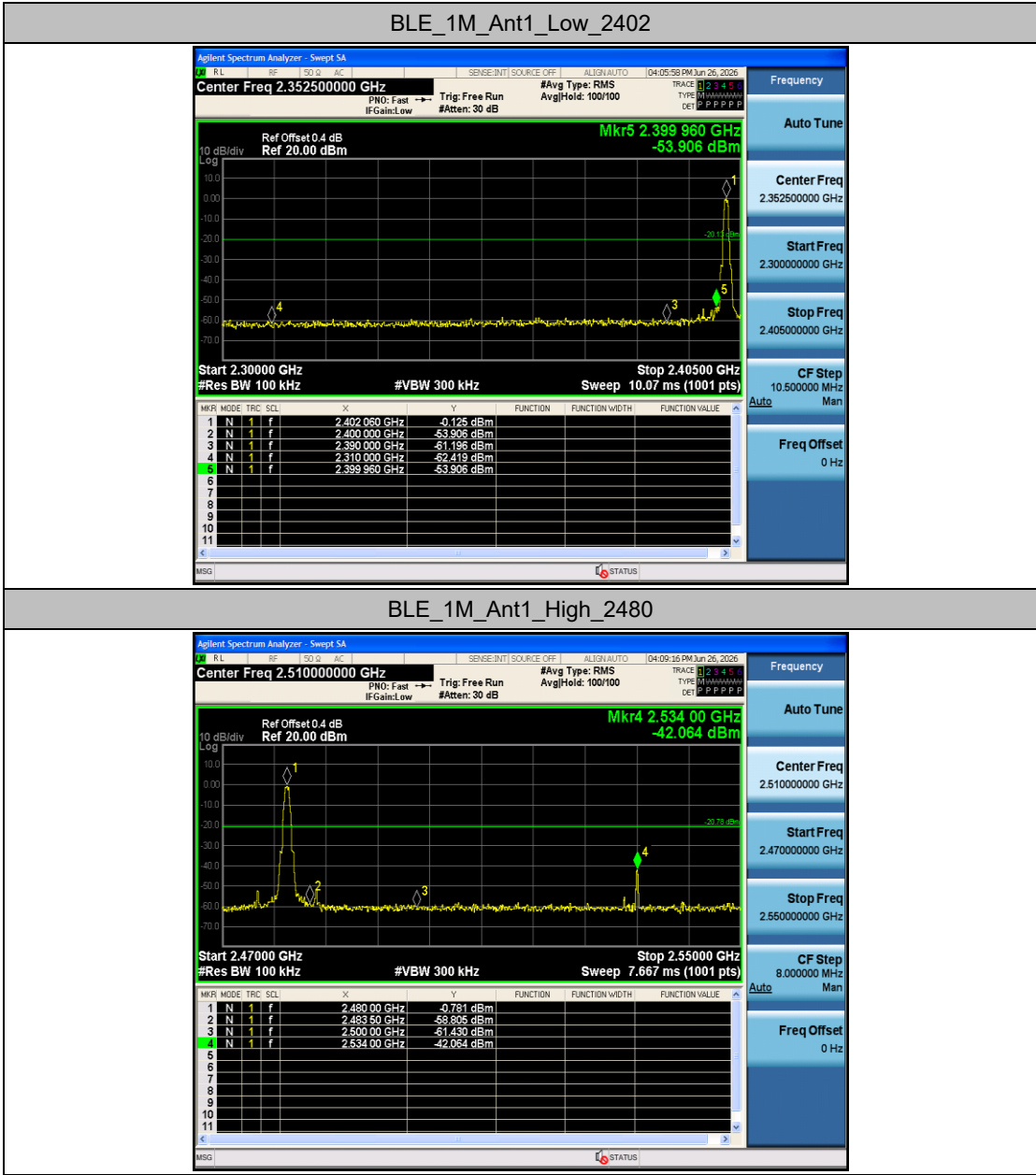


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.13	-53.91	≤-20.13	PASS
		High	2480	-0.78	-42.06	≤-20.78	PASS

Test Graphs

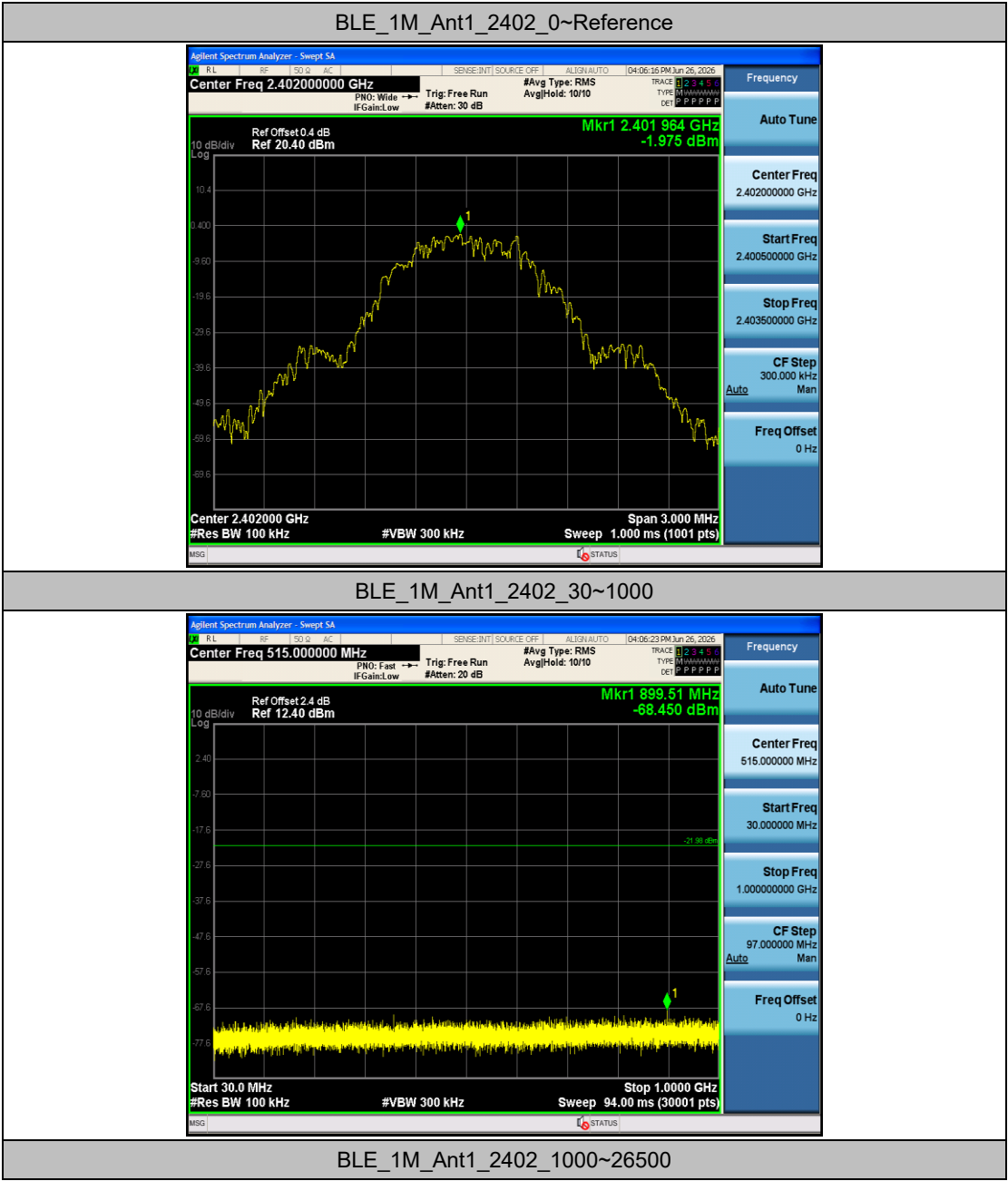


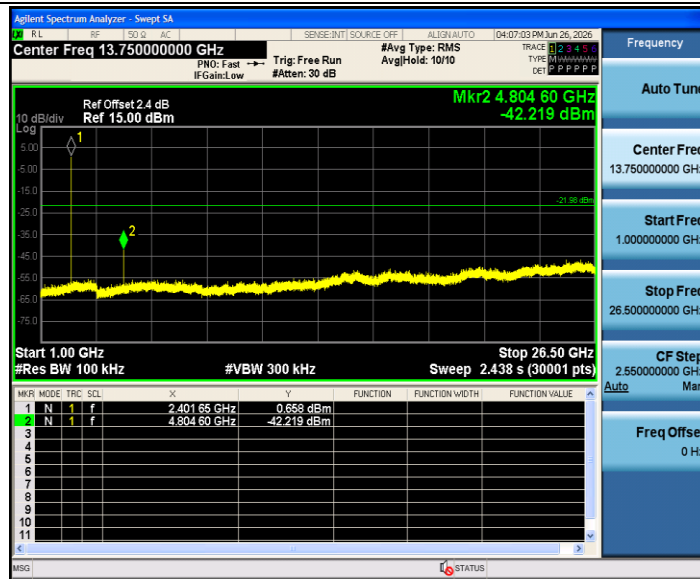
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.98	-1.98	---	PASS
			30~1000	-1.98	-68.45	≤-21.98	PASS
			1000~26500	-1.98	-42.22	≤-21.98	PASS
		2440	Reference	-1.90	-1.90	---	PASS
			30~1000	-1.90	-68.55	≤-21.9	PASS
			1000~26500	-1.90	-42.55	≤-21.9	PASS
		2480	Reference	-1.03	-1.03	---	PASS
			30~1000	-1.03	-69.72	≤-21.03	PASS
			1000~26500	-1.03	-40.61	≤-21.03	PASS

Test Graphs

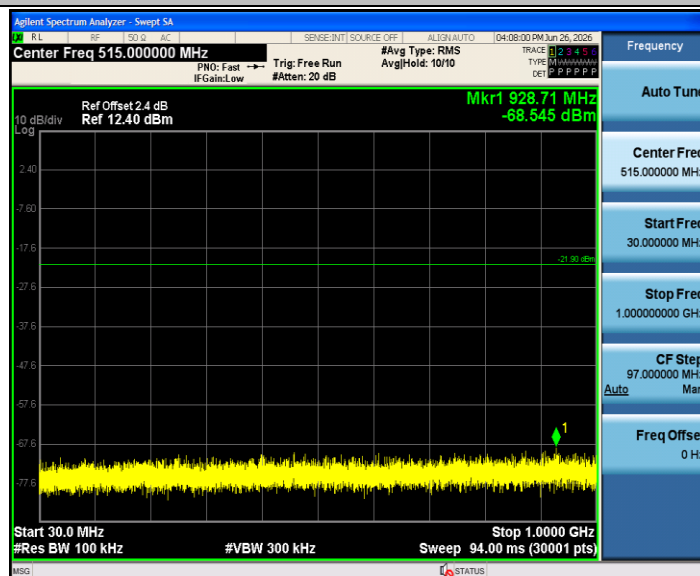




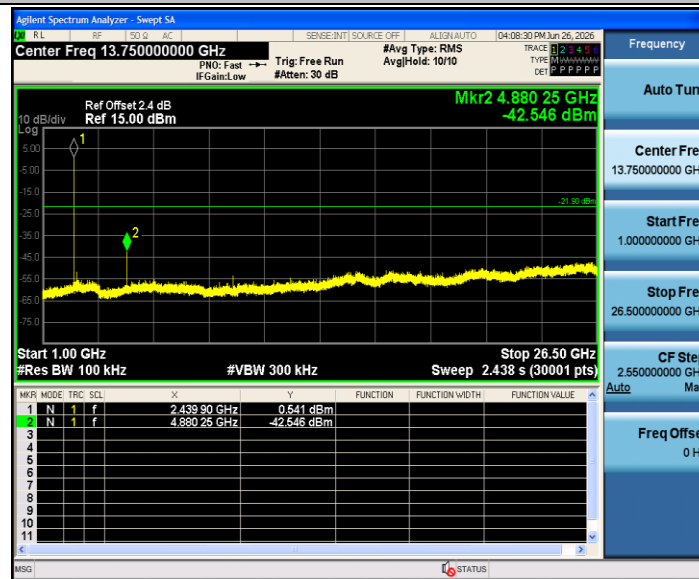
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



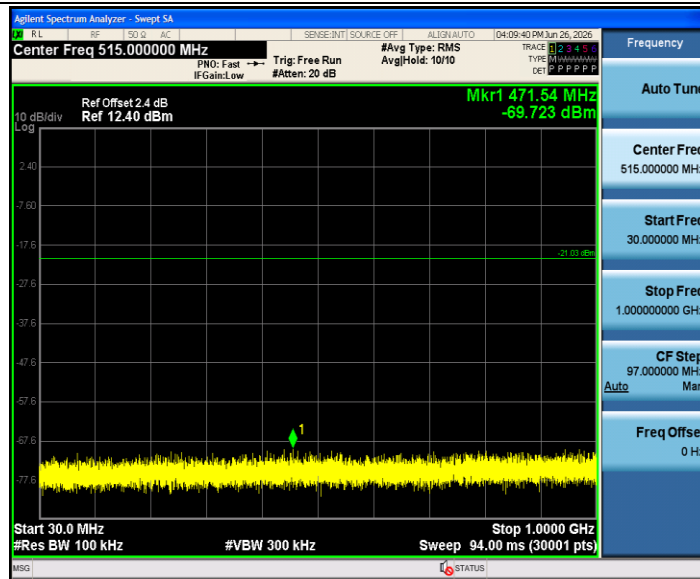
BLE_1M_Ant1_2440_1000~26500



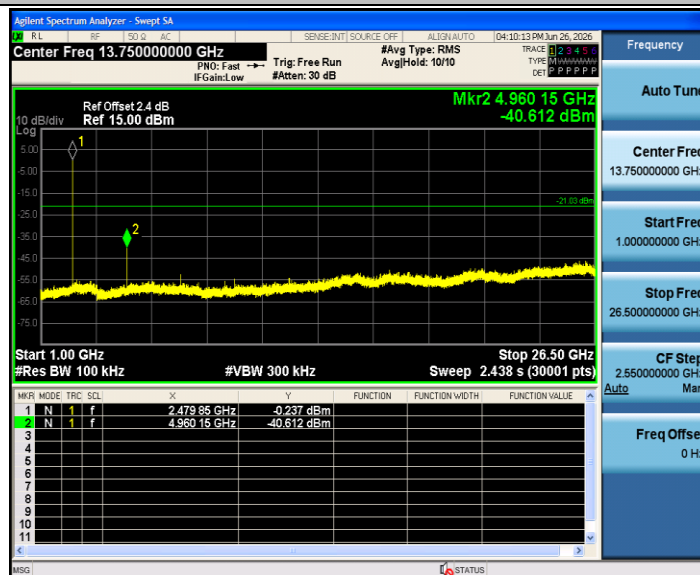
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

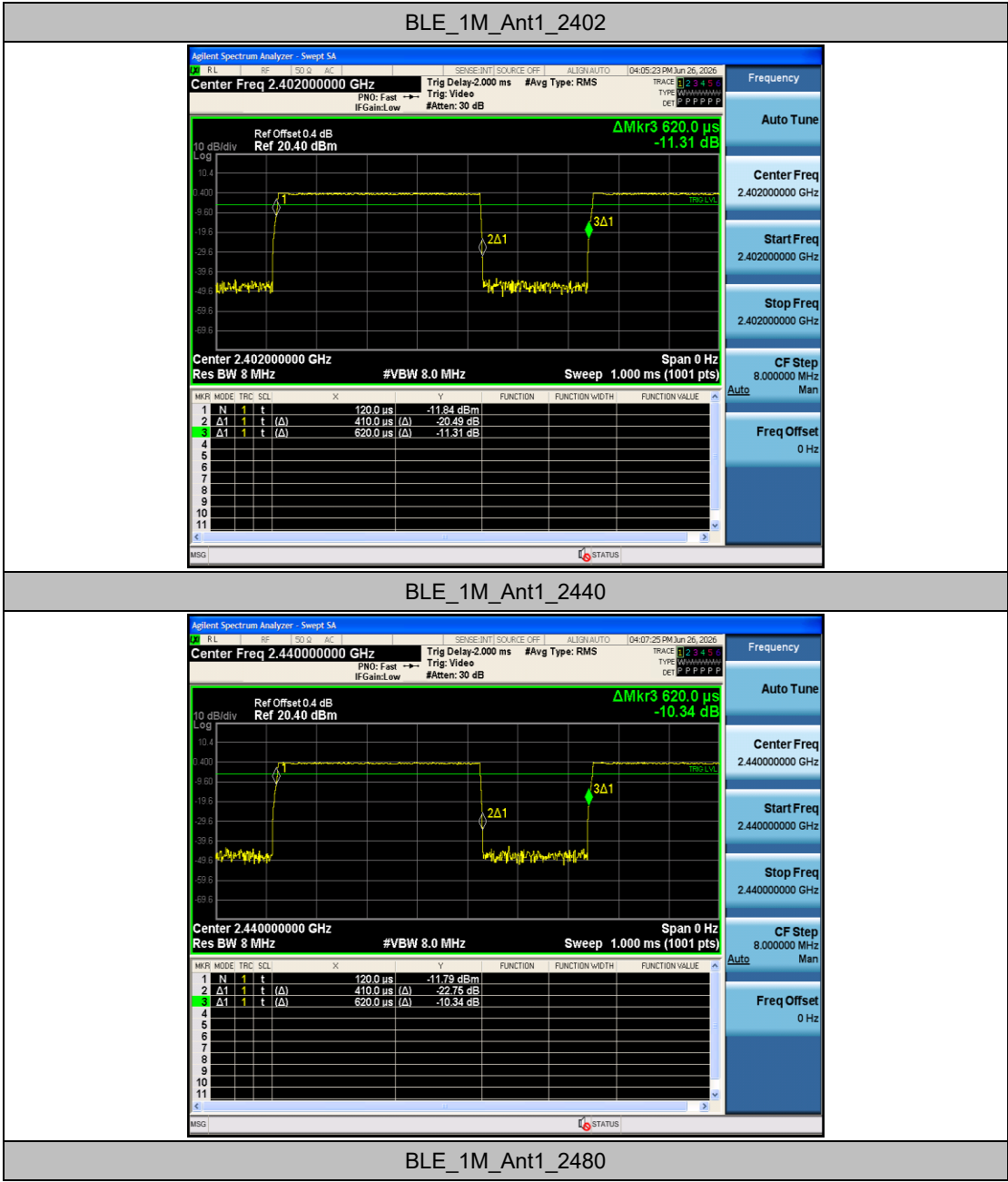


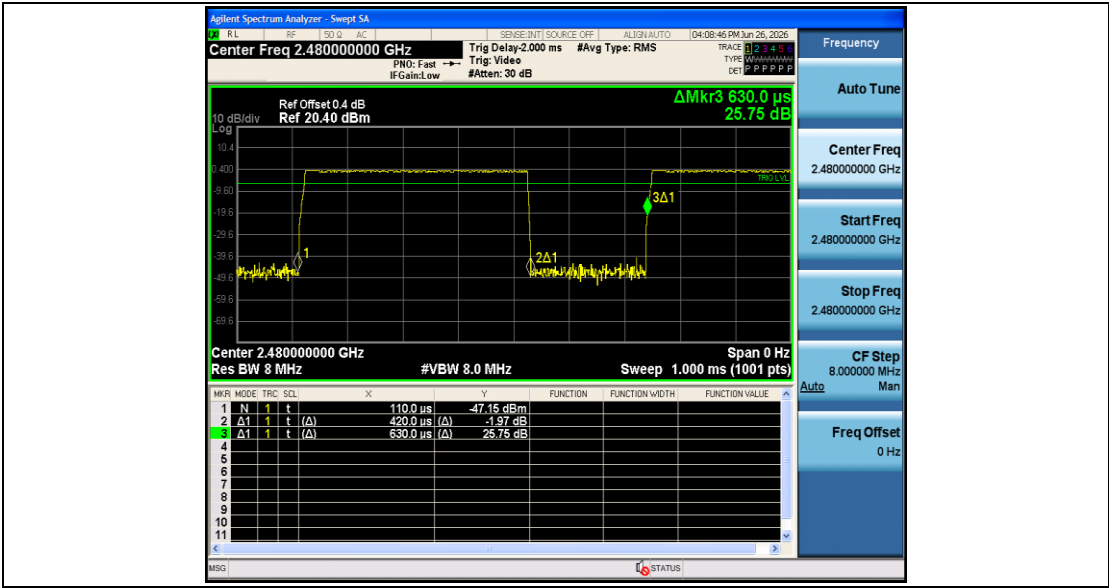
Appendix G: Duty Cycle

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	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	-61.07	2.00	1.80	37.93	≤54	PASS
				AV	2375.810	-59.1	2.00	1.80	39.90	≤54	PASS
				AV	2390.000	-59.74	2.00	1.80	39.26	≤54	PASS
				Peak	2310.000	-52.79	2.00	0.00	44.41	≤74	PASS
				Peak	2364.050	-48.75	2.00	0.00	48.45	≤74	PASS
				Peak	2390.000	-51.05	2.00	0.00	46.15	≤74	PASS
		High	2480	AV	2483.500	-57.58	2.00	1.76	41.38	≤54	PASS
				AV	2484.160	-57.2	2.00	1.76	41.76	≤54	PASS
				AV	2500.000	-59.46	2.00	1.76	39.50	≤54	PASS
				Peak	2483.500	-48.48	2.00	0.00	48.72	≤74	PASS
				Peak	2484.960	-45.18	2.00	0.00	52.02	≤74	PASS
				Peak	2500.000	-51.7	2.00	0.00	45.50	≤74	PASS

Note:

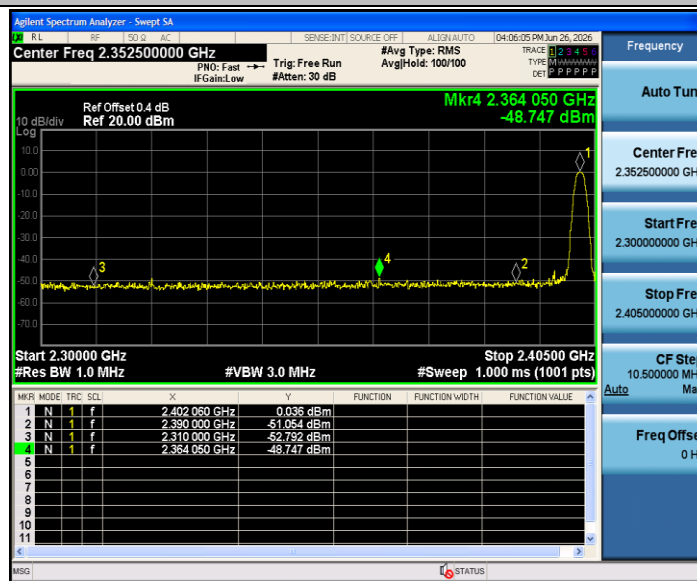
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

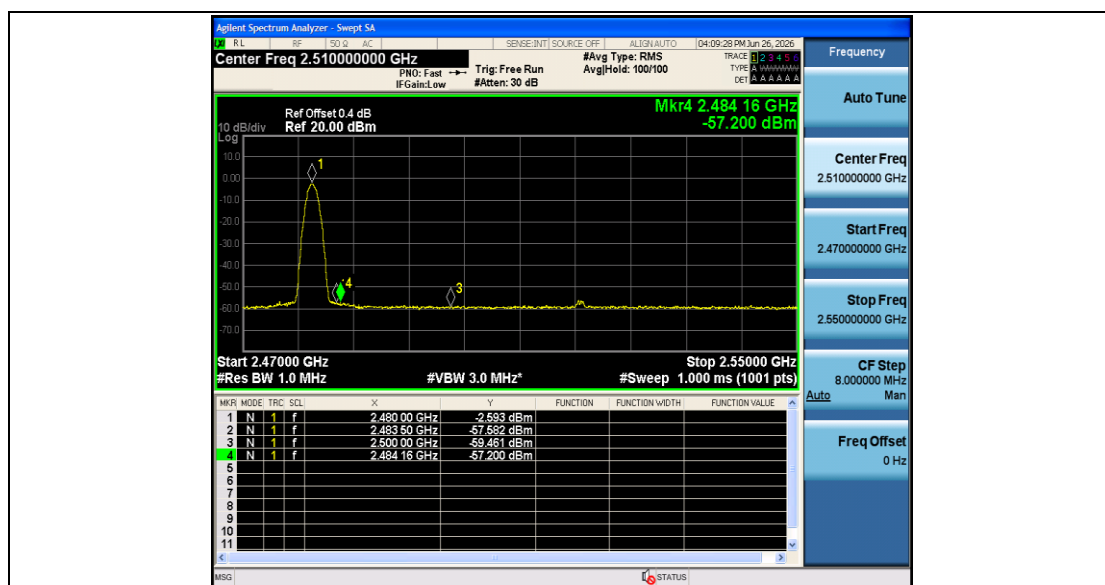
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

