

FCC Appendix RF Test Data for BLE

FCC ID : 2A35W-3518D2

Company : Shenzhen Haochuangyi Technology Co.,Ltd.

EUT : TV stick

Model Number : 3518D2

Report No. : CTA26080701601

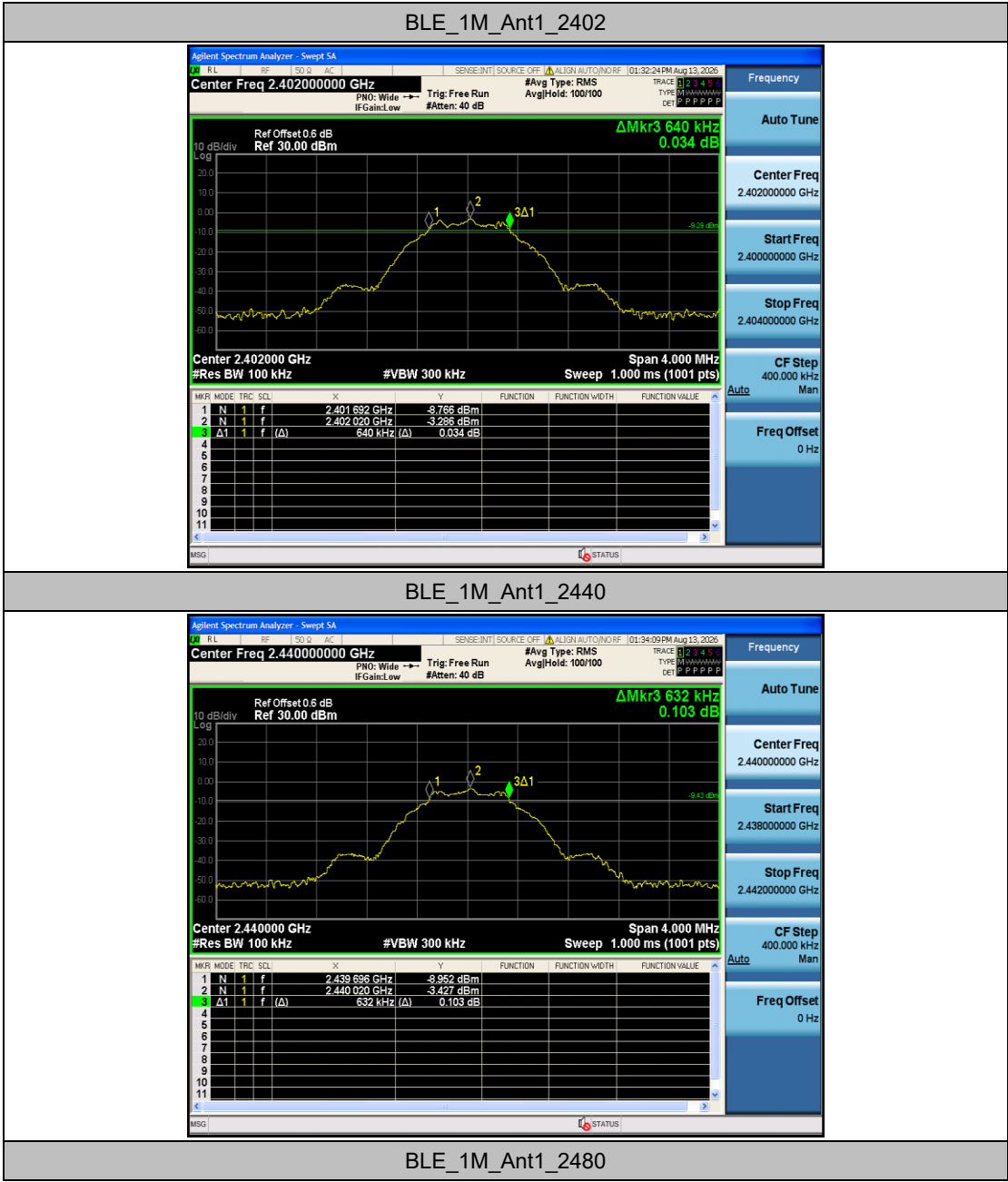
Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.640	2401.692	2402.332	0.5	PASS
		2440	0.632	2439.696	2440.328	0.5	PASS
		2480	0.648	2479.688	2480.336	0.5	PASS

Test Graphs



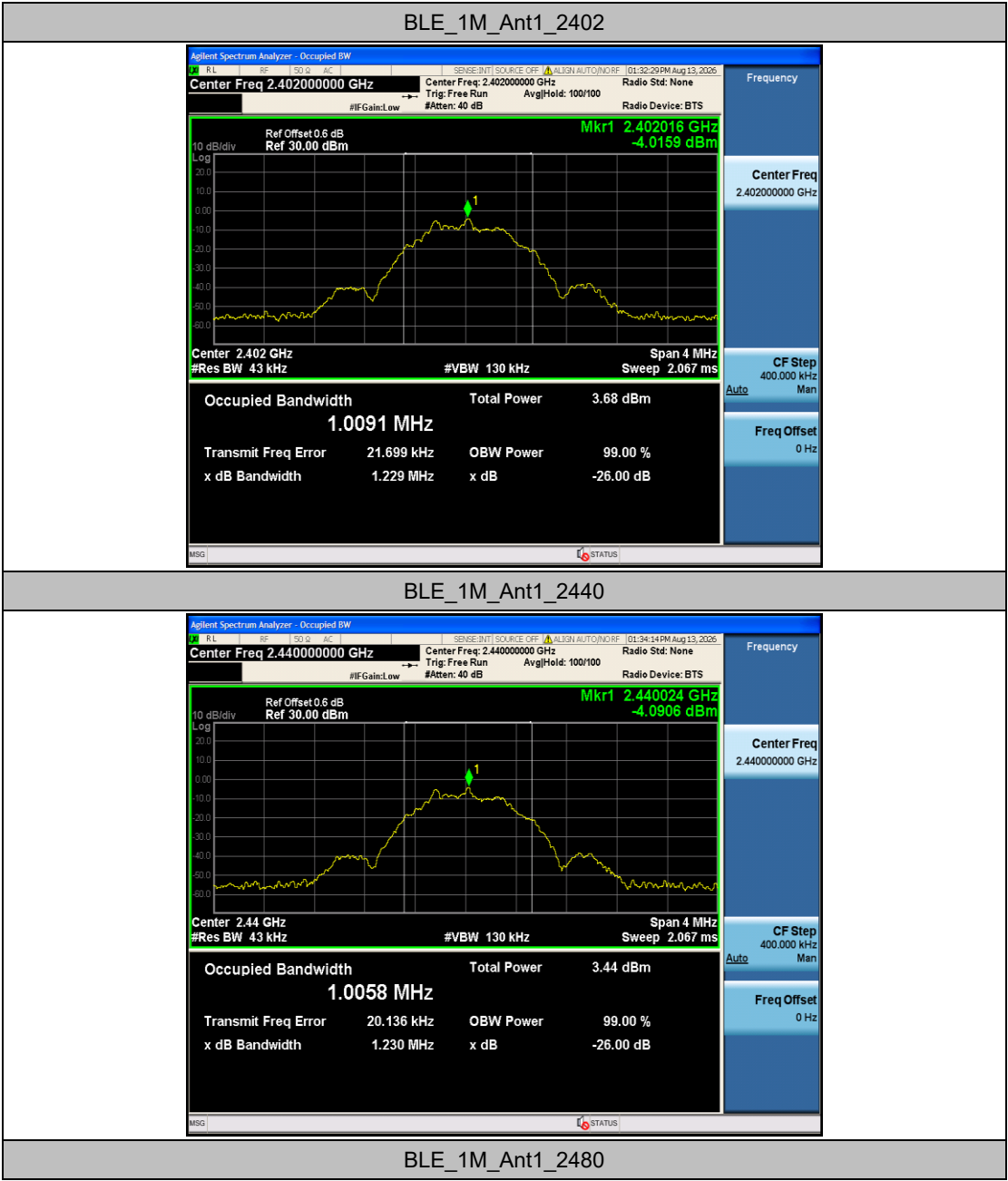


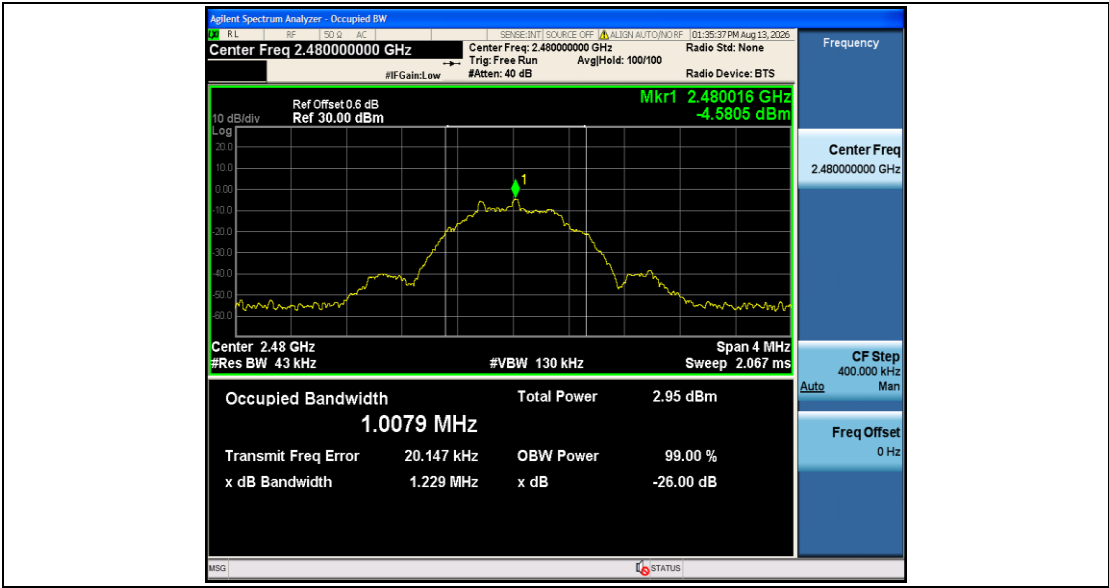
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0091	2401.5172	2402.5263	---	---
		2440	1.0058	2439.5172	2440.5230	---	---
		2480	1.0079	2479.5162	2480.5241	---	---

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	-3.17	≤30	PASS
		2440	-3.28	≤30	PASS
		2480	-3.65	≤30	PASS

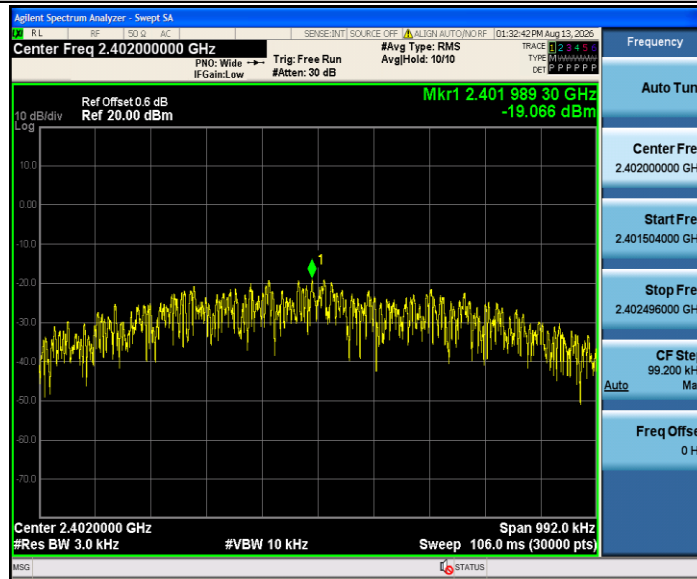
Appendix D: Maximum power spectral density

Test Result

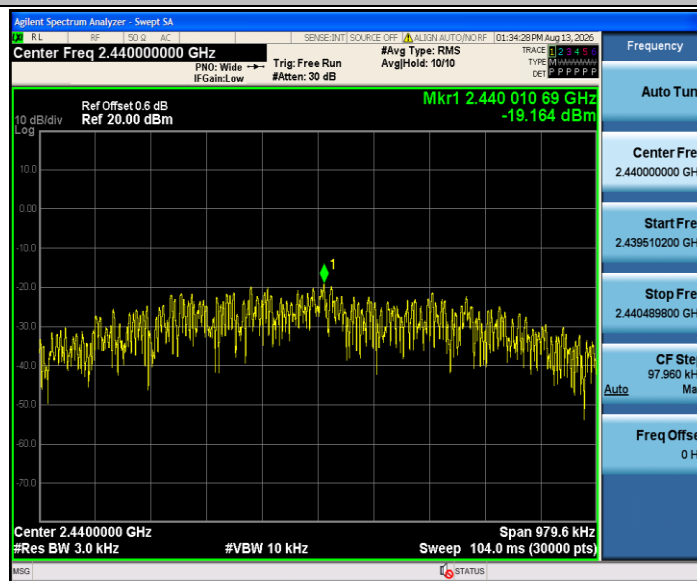
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.07	≤8.00	PASS
		2440	-19.16	≤8.00	PASS
		2480	-19.55	≤8.00	PASS

Test Graphs

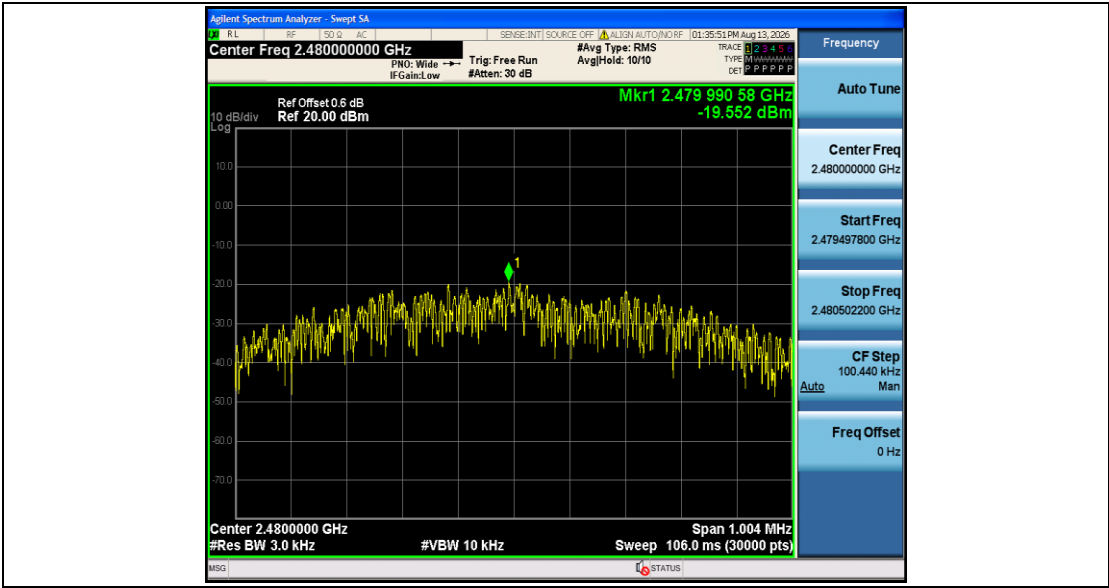
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

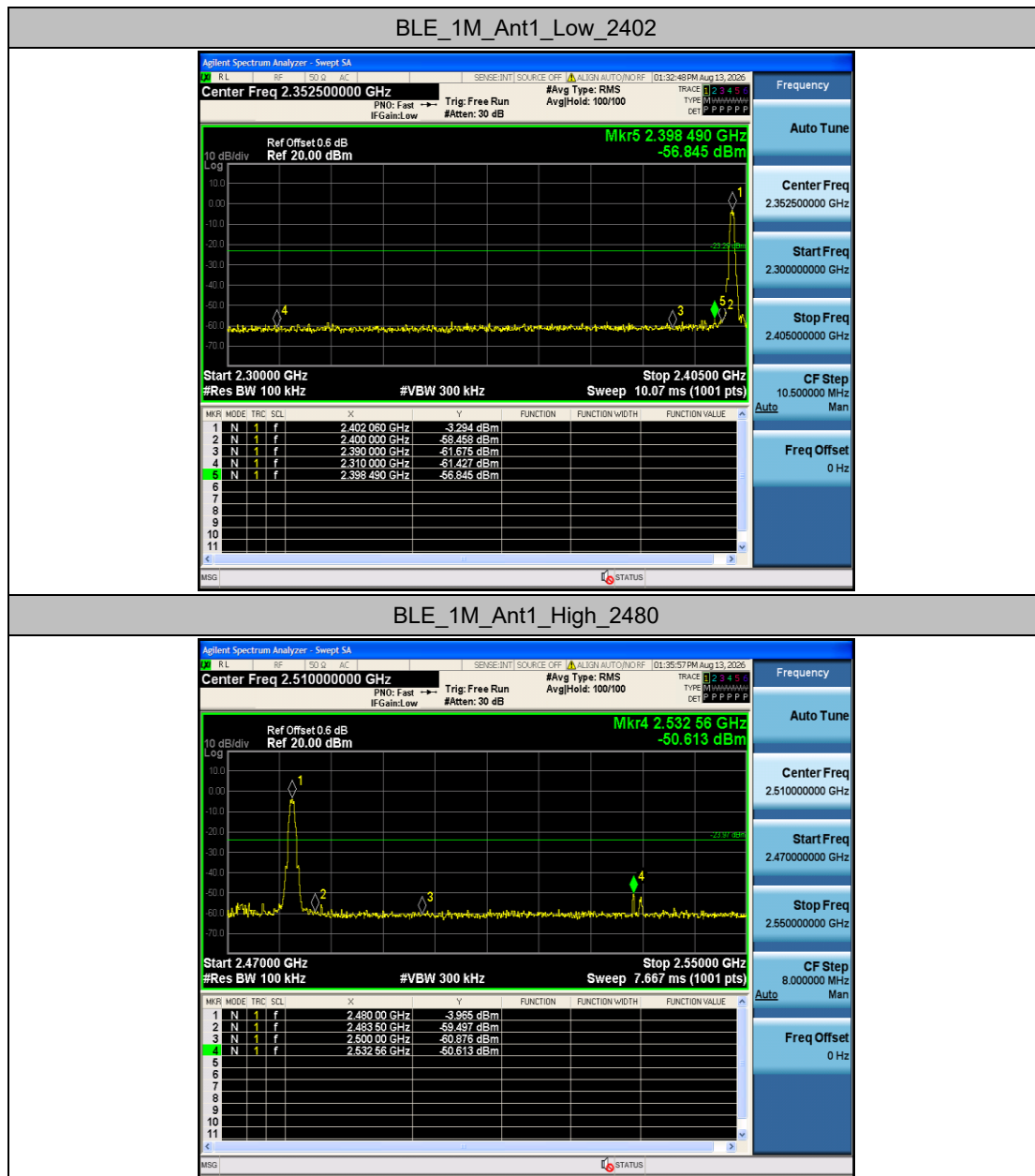


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.29	-56.85	≤-23.29	PASS
		High	2480	-3.97	-50.61	≤-23.97	PASS

Test Graphs

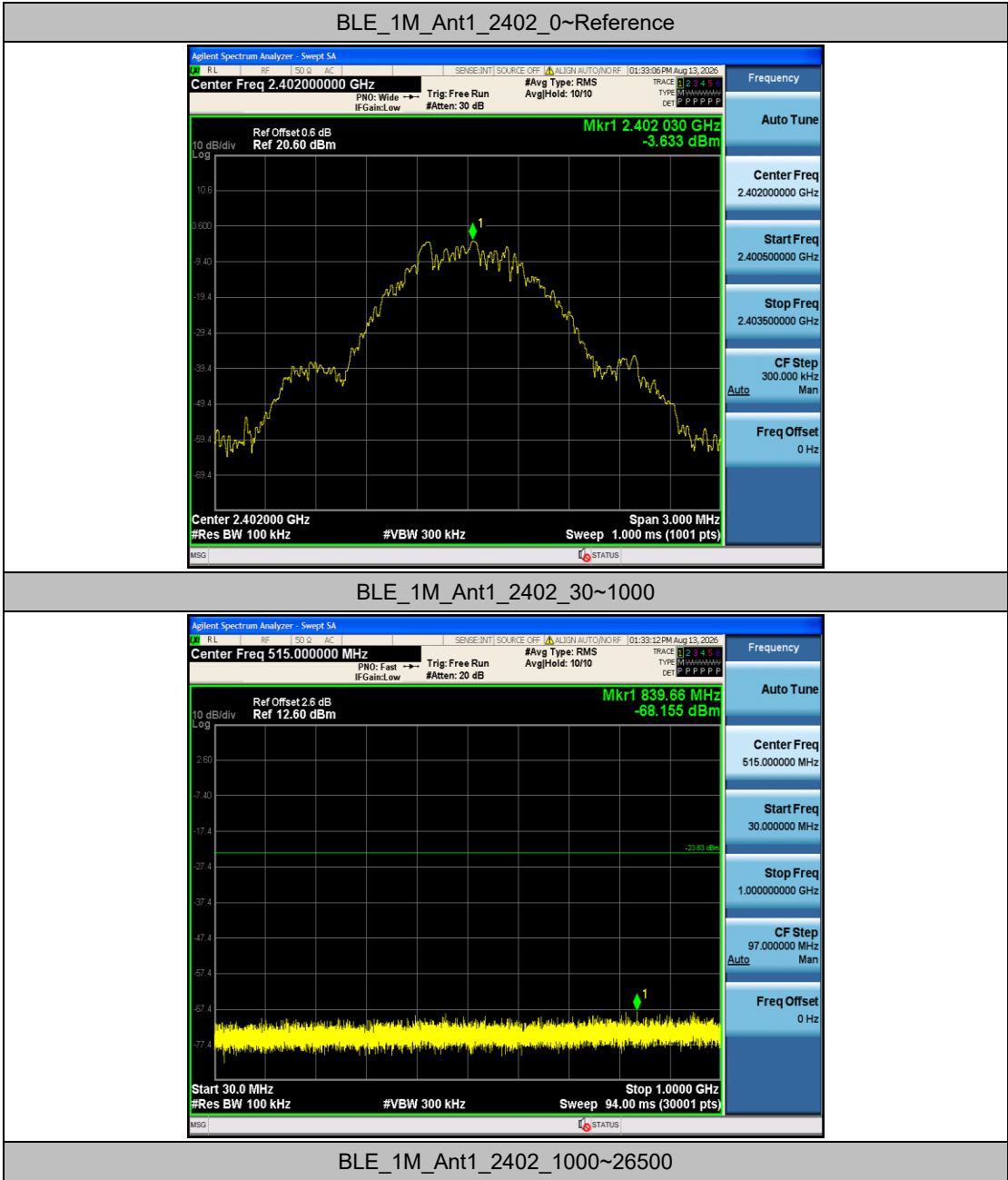


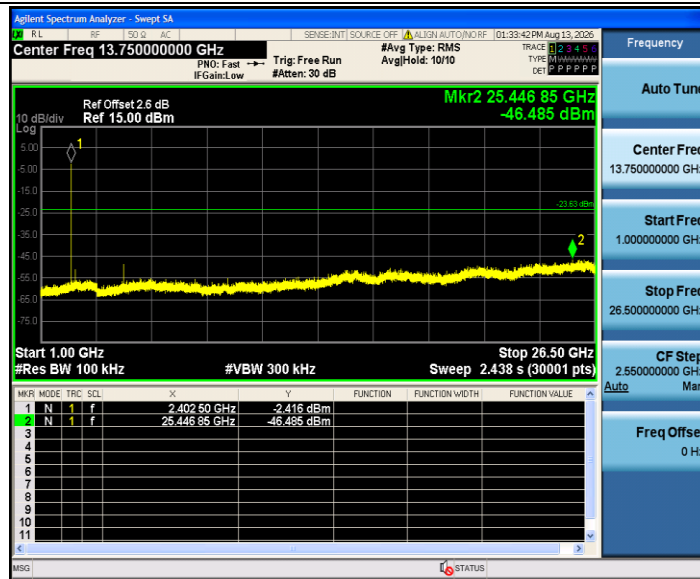
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.63	-3.63	---	PASS
			30~1000	-3.63	-68.16	≤-23.63	PASS
			1000~26500	-3.63	-46.49	≤-23.63	PASS
		2440	Reference	-4.77	-4.77	---	PASS
			30~1000	-4.77	-63.09	≤-24.77	PASS
			1000~26500	-4.77	-46.73	≤-24.77	PASS
		2480	Reference	-4.40	-4.40	---	PASS
			30~1000	-4.40	-68.17	≤-24.4	PASS
			1000~26500	-4.40	-46.48	≤-24.4	PASS

Test Graphs

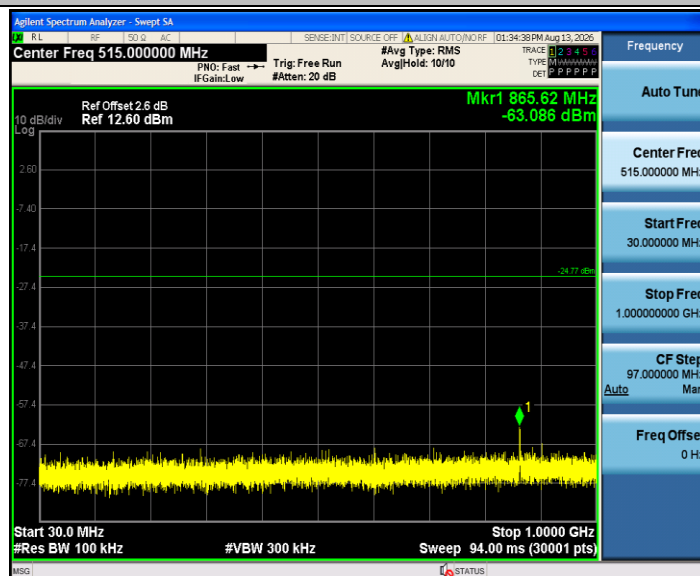




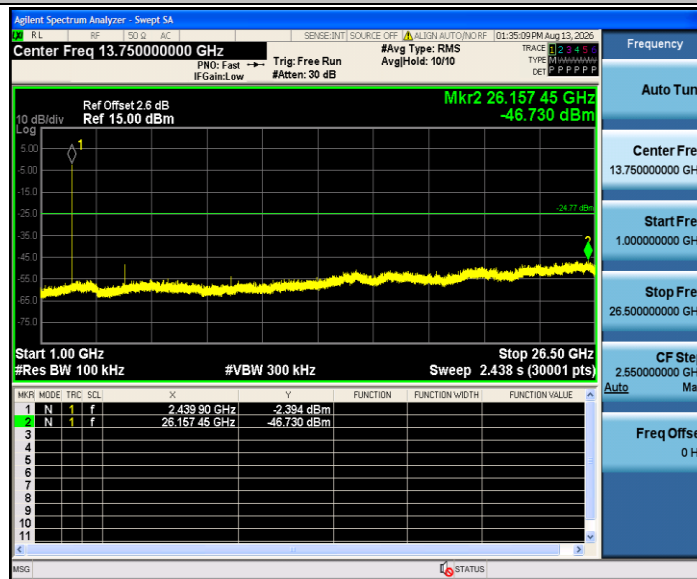
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



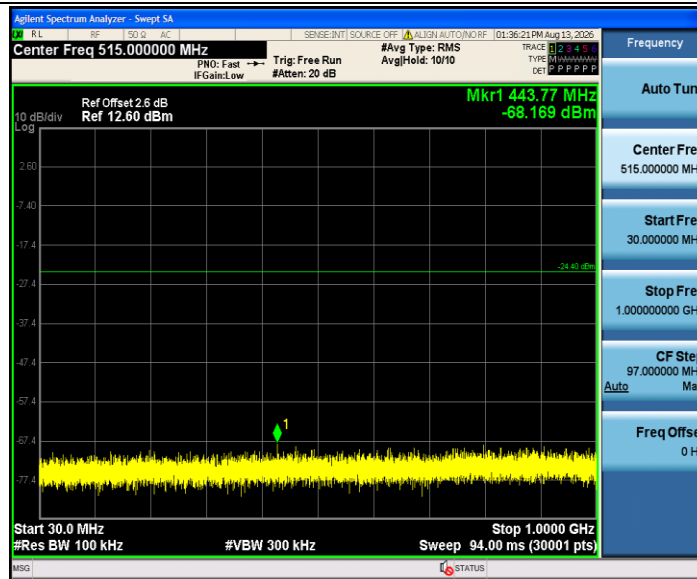
BLE_1M_Ant1_2440_1000~26500



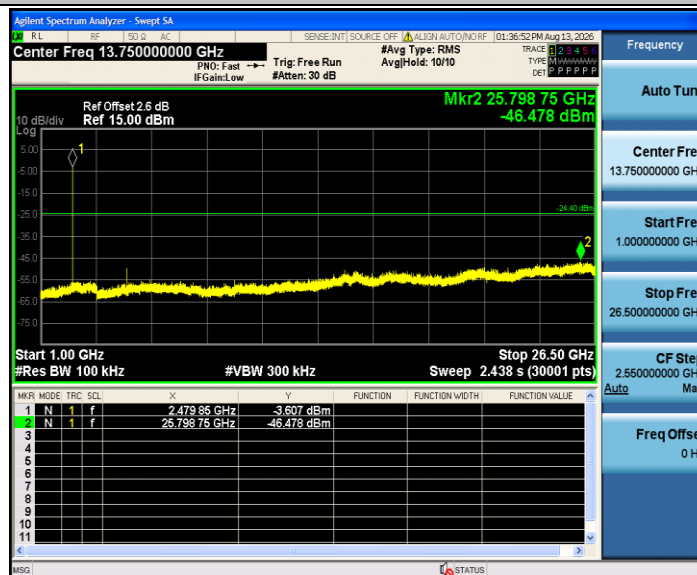
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

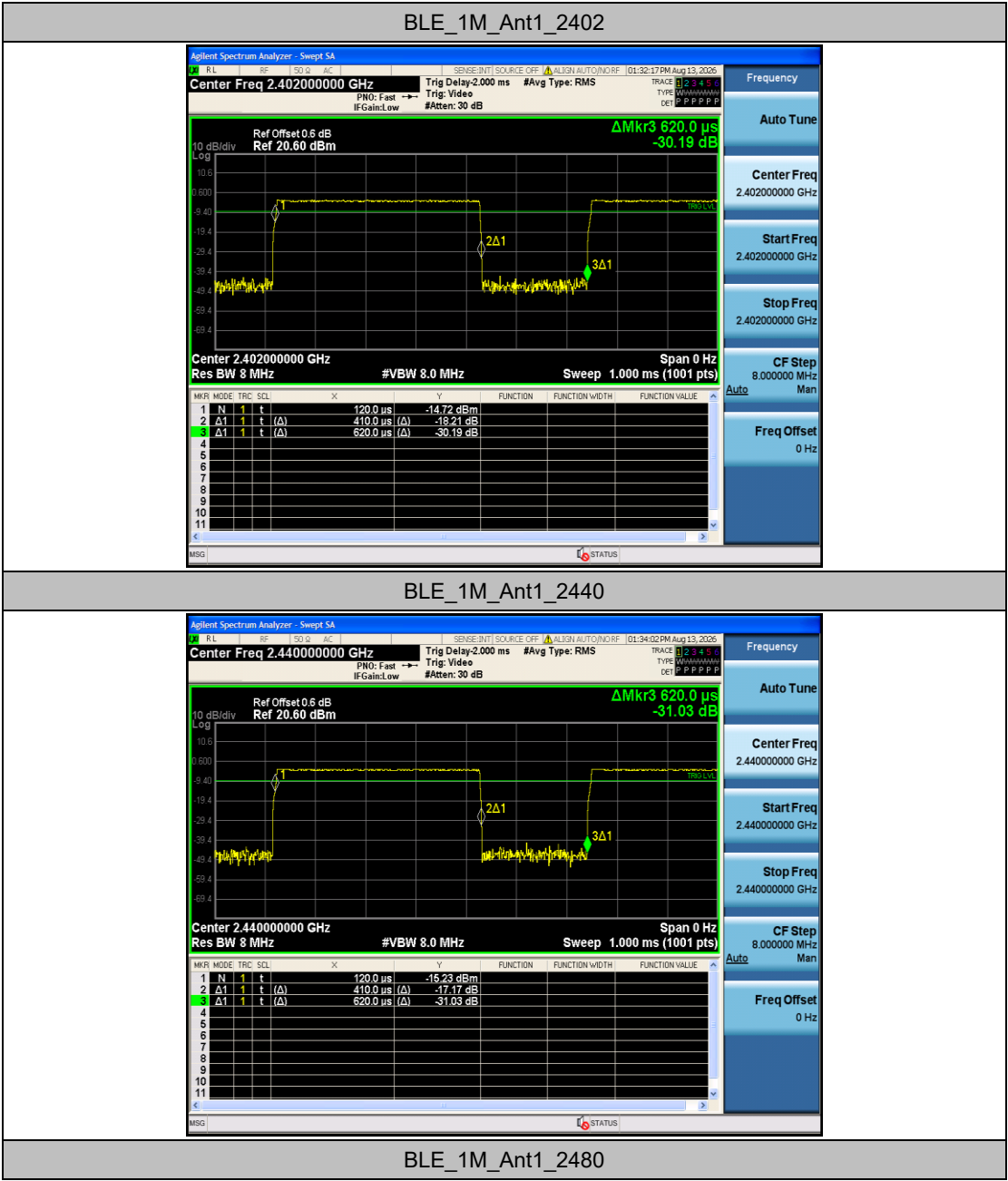


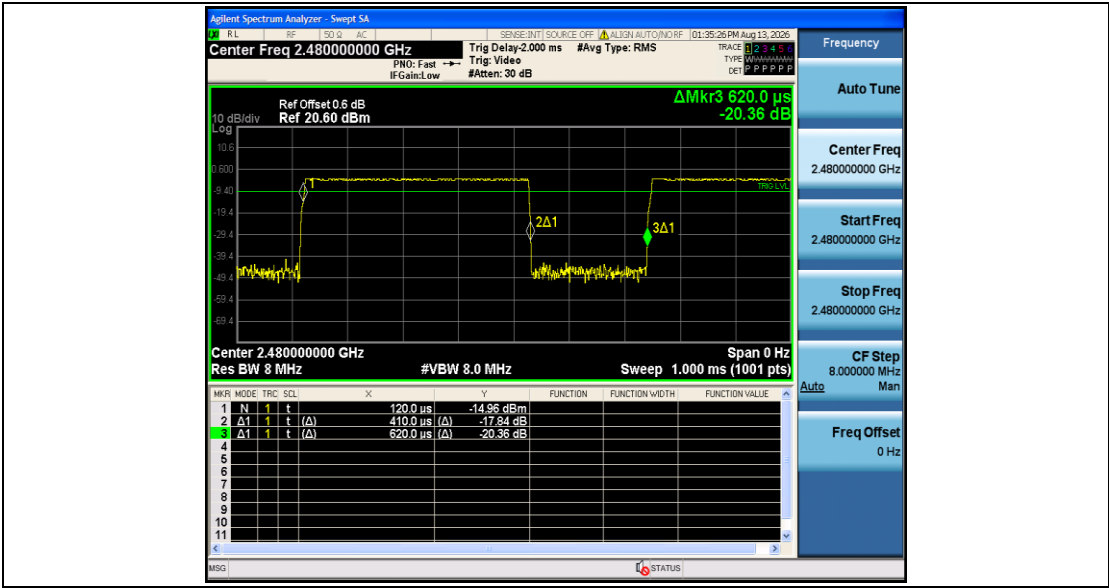
Appendix G: Duty Cycle

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

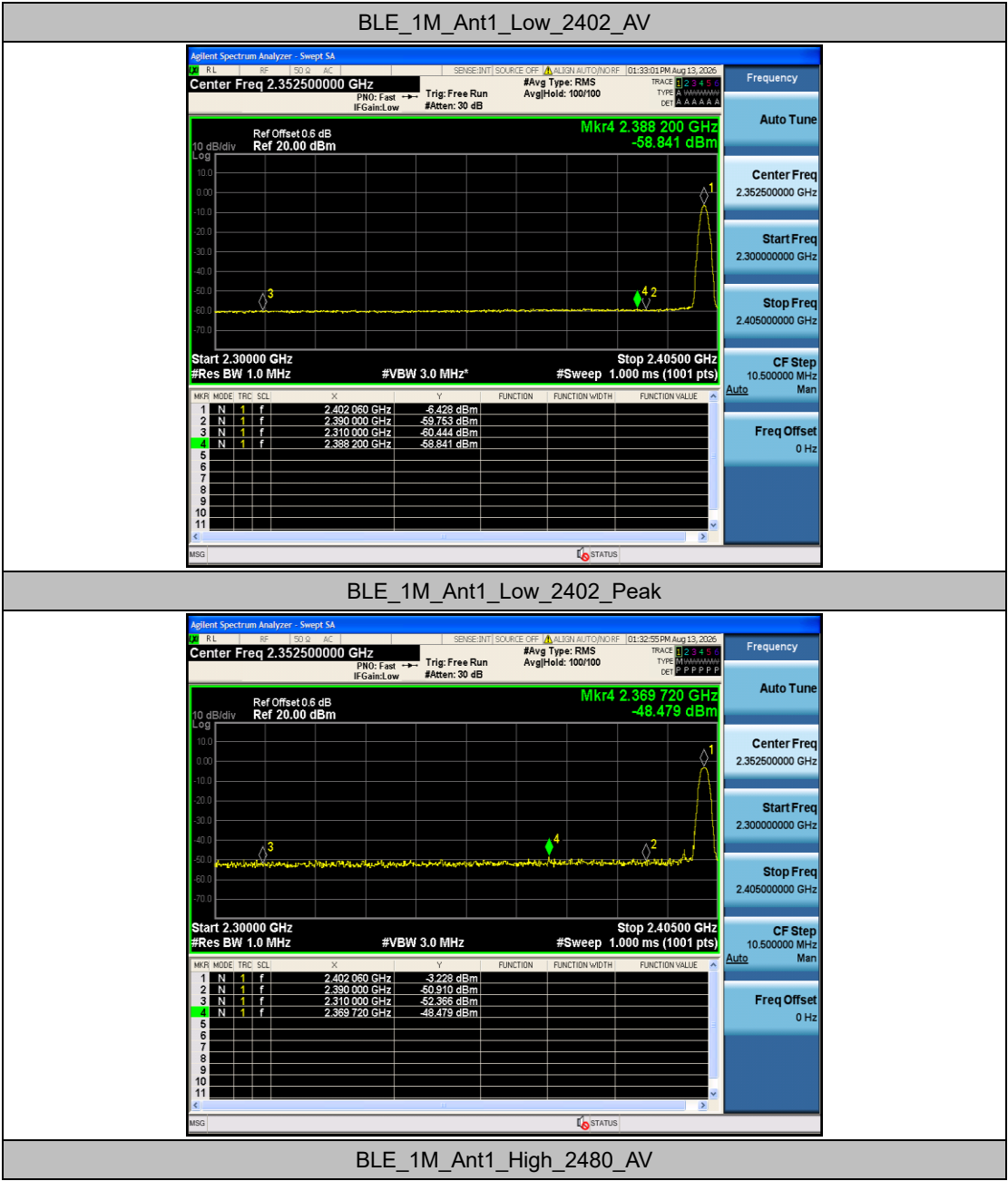
Test Result

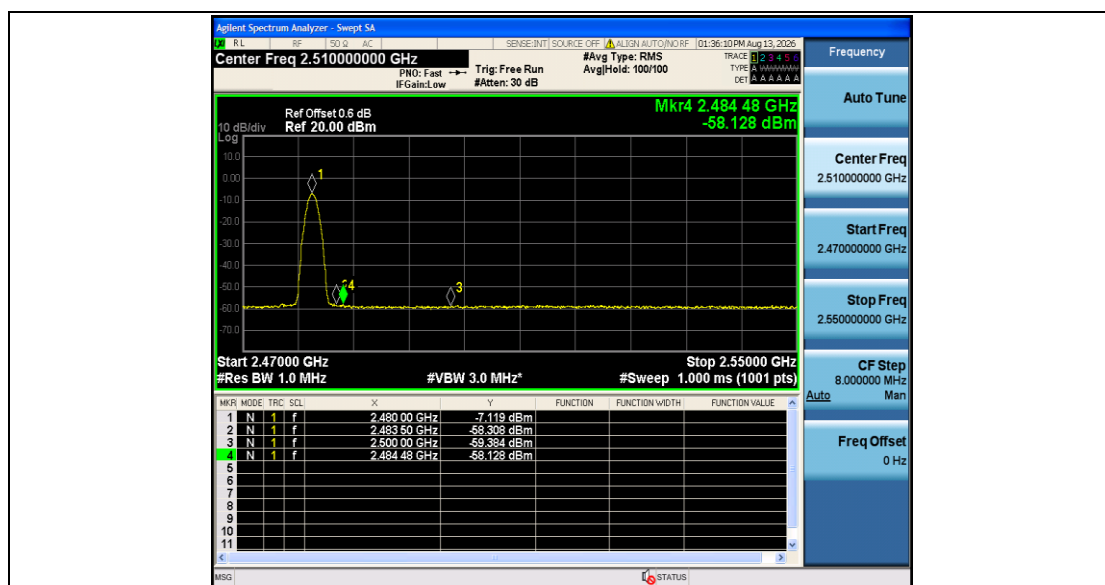
TestMode	Antenna	Channel	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-60.44	2.16	1.80	38.72	≤54	PASS
				AV	2388.200	-58.84	2.16	1.80	40.32	≤54	PASS
				AV	2390.000	-59.75	2.16	1.80	39.41	≤54	PASS
				Peak	2310.000	-52.37	2.16	0.00	44.99	≤74	PASS
				Peak	2369.720	-48.48	2.16	0.00	48.88	≤74	PASS
				Peak	2390.000	-50.91	2.16	0.00	46.45	≤74	PASS
		High	2480	AV	2483.500	-58.31	2.16	1.80	40.85	≤54	PASS
				AV	2484.480	-58.13	2.16	1.80	41.03	≤54	PASS
				AV	2500.000	-59.38	2.16	1.80	39.78	≤54	PASS
				Peak	2483.500	-48.9	2.16	0.00	48.46	≤74	PASS
				Peak	2484.400	-46.64	2.16	0.00	50.72	≤74	PASS
				Peak	2500.000	-51.36	2.16	0.00	46.00	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. 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_High_2480_Peak

