

FCC Appendix RF Test Data for BLE

FCC ID : 2BW3U-MH017-2

Company : MYPLAYER LTD

EUT : MY SOUND USB 2

Model Number : MH017-2

Report No. : CTA26072901301

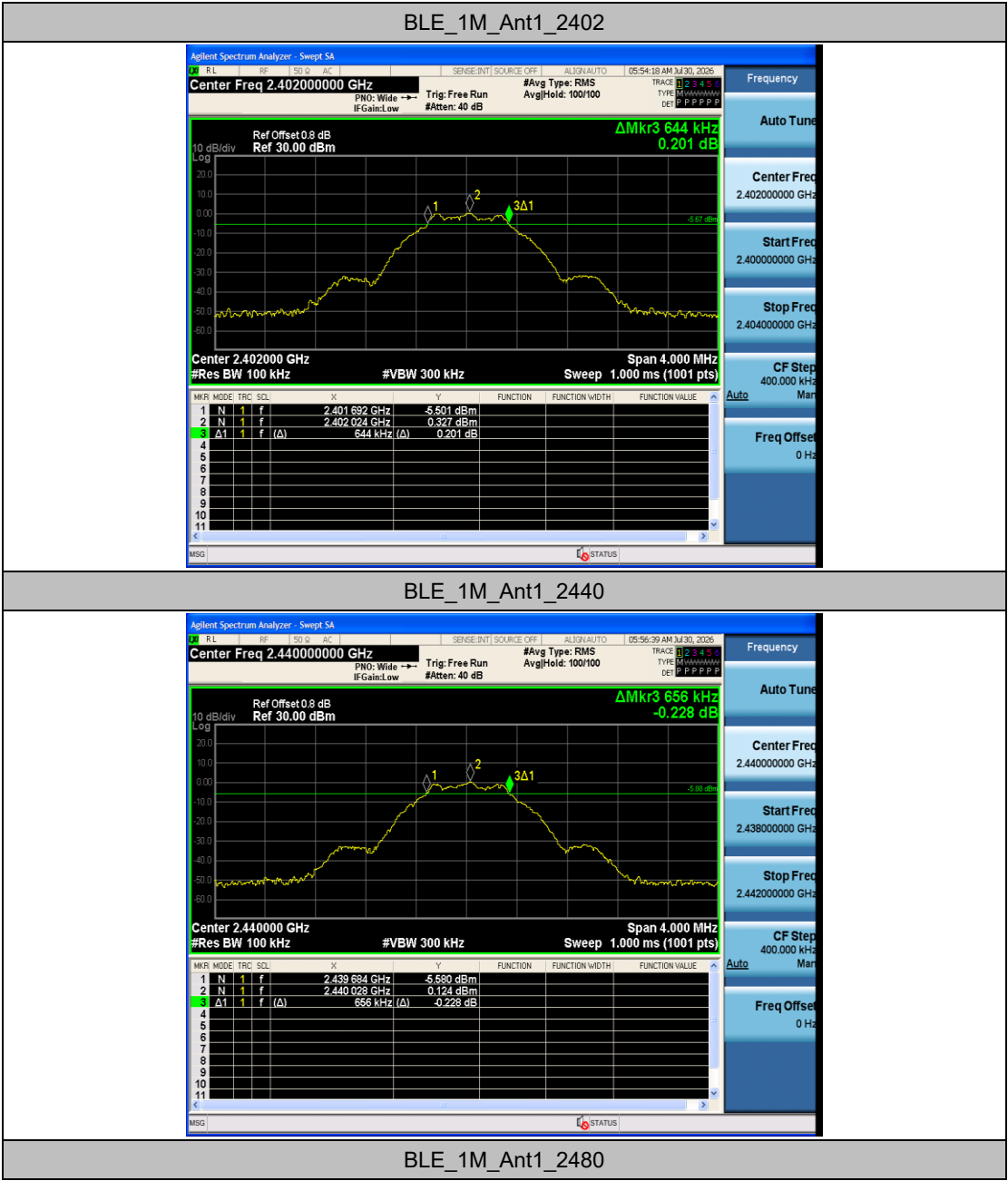
Reviewed By : Eric Wang

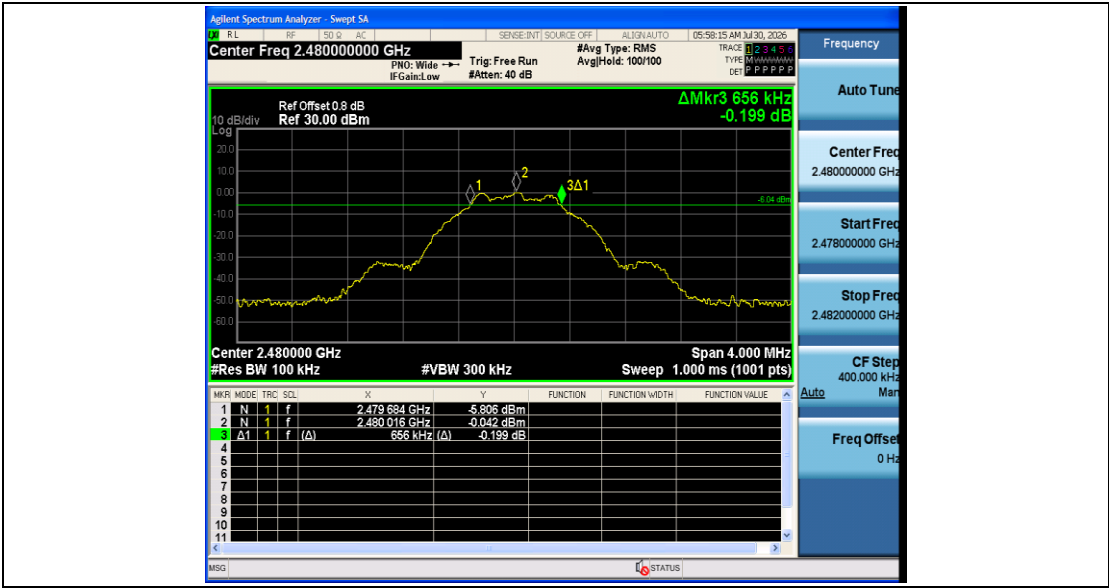
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.692	2402.336	0.5	PASS
		2440	0.656	2439.684	2440.340	0.5	PASS
		2480	0.656	2479.684	2480.340	0.5	PASS

Test Graphs



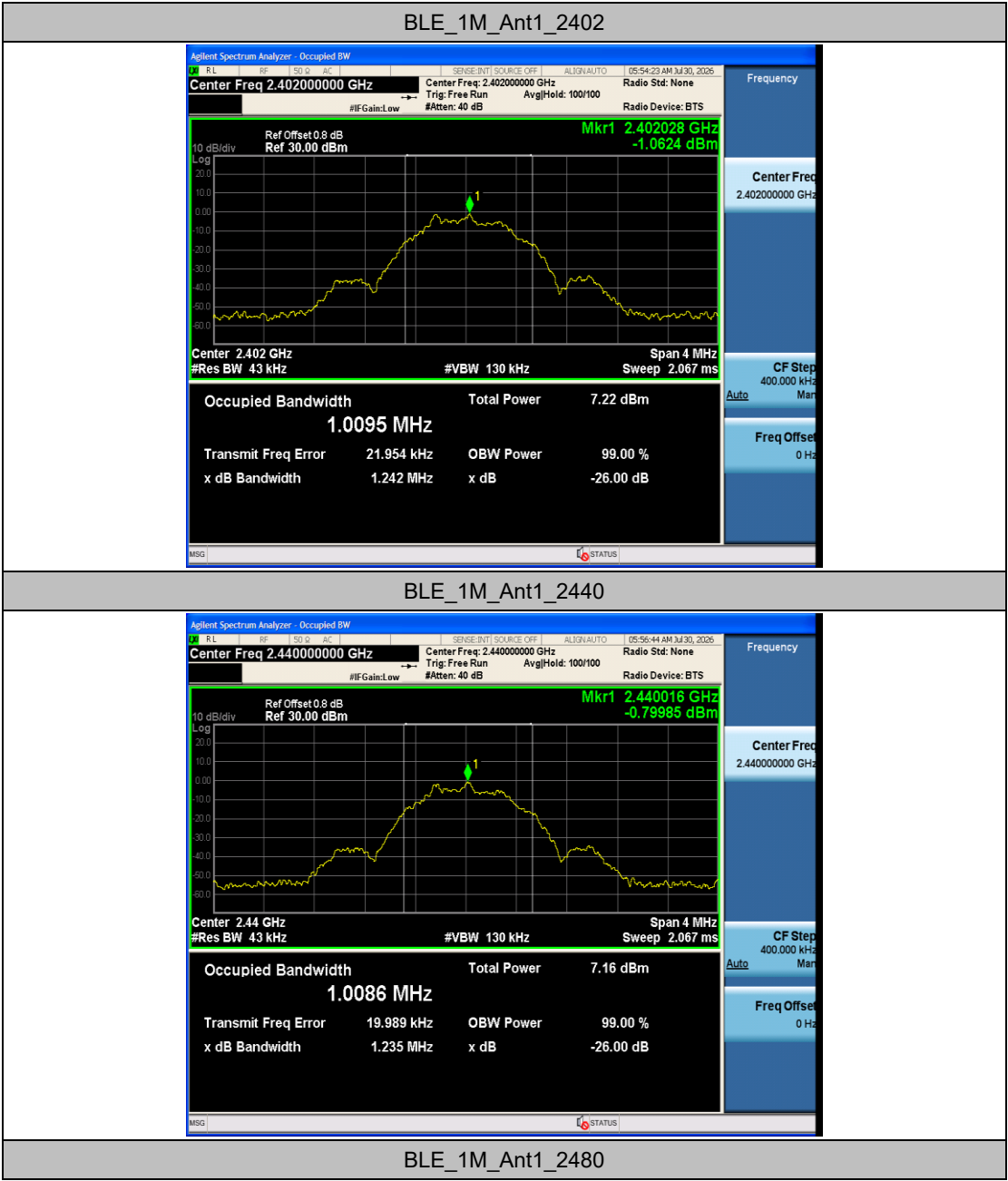


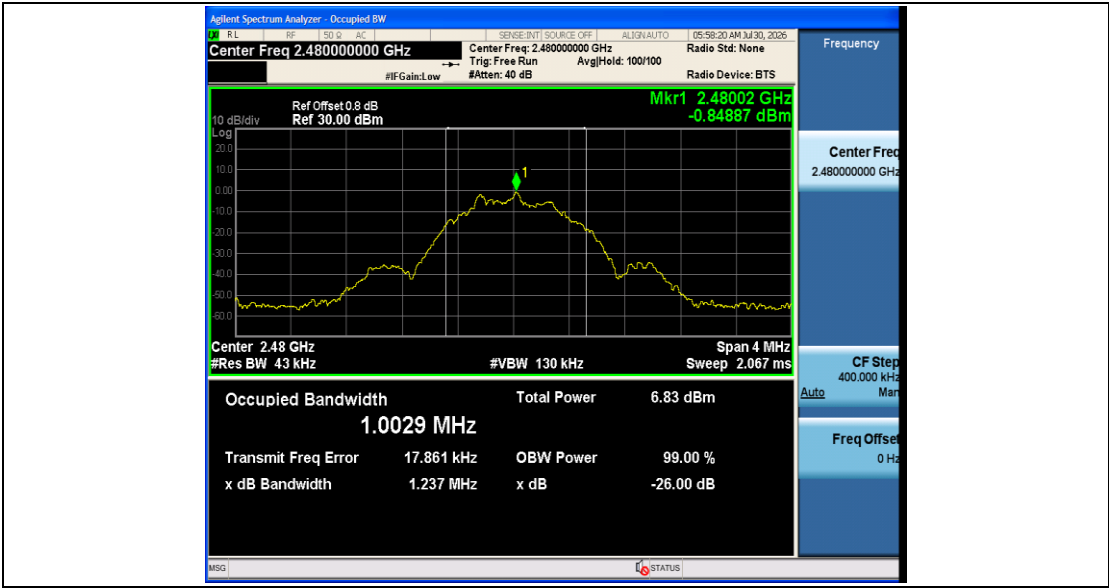
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0095	2401.5172	2402.5267	---	---
		2440	1.0086	2439.5157	2440.5243	---	---
		2480	1.0029	2479.5164	2480.5193	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

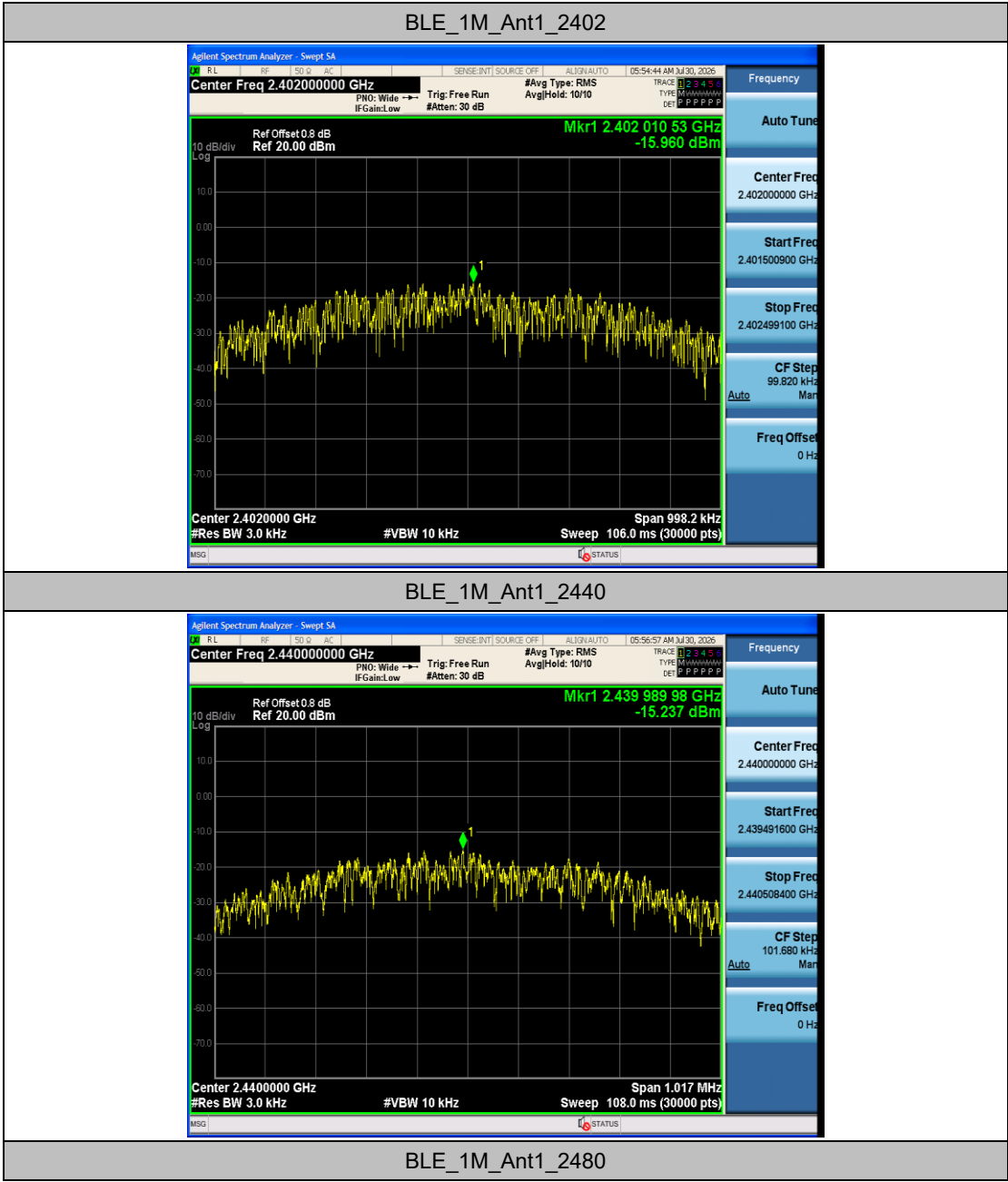
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.47	≤30	PASS
		2440	0.40	≤30	PASS
		2480	0.14	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.96	≤8.00	PASS
		2440	-15.24	≤8.00	PASS
		2480	-15.28	≤8.00	PASS

Test Graphs

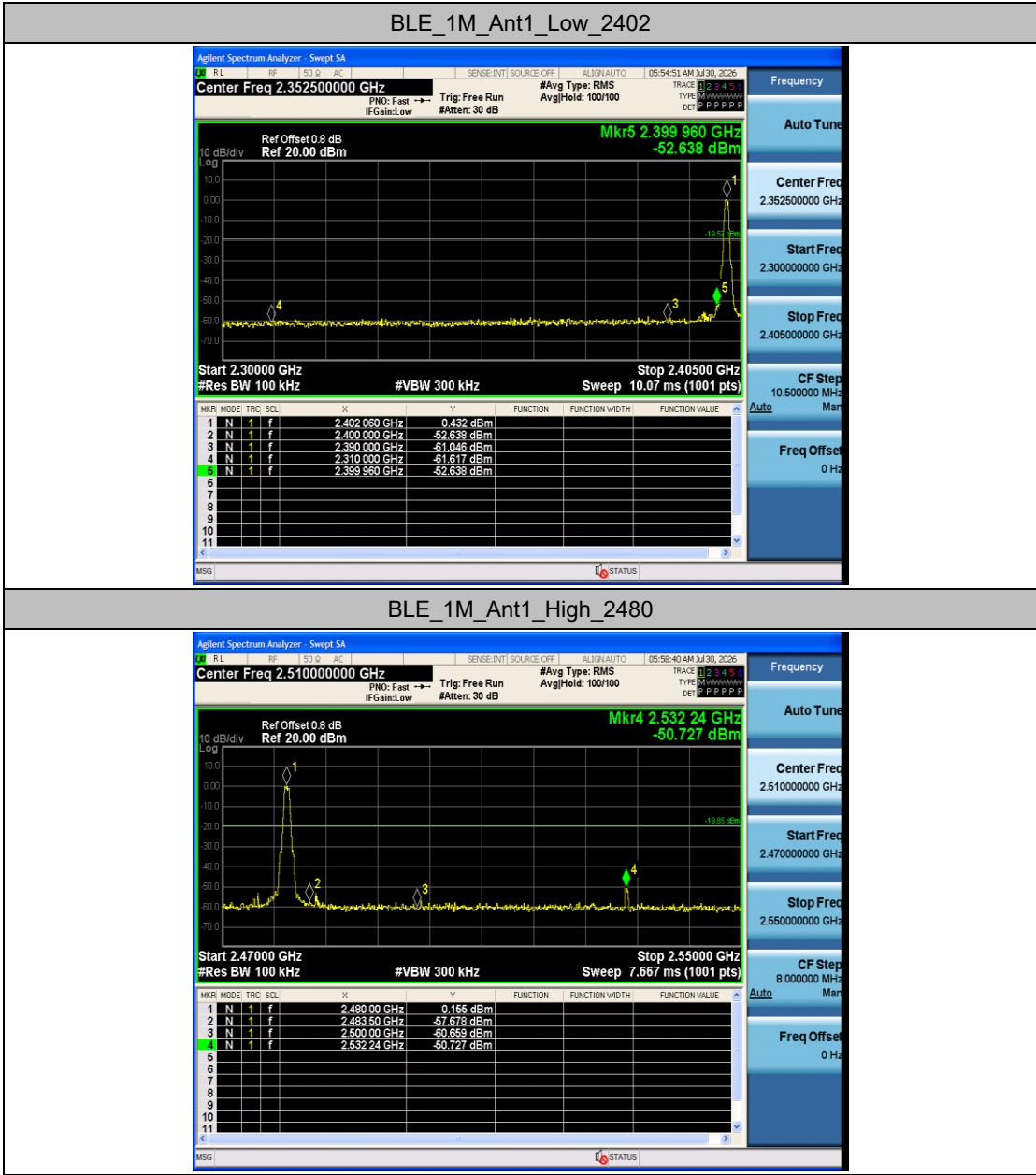


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.43	-52.64	≤-19.57	PASS
		High	2480	0.16	-50.73	≤-19.85	PASS

Test Graphs

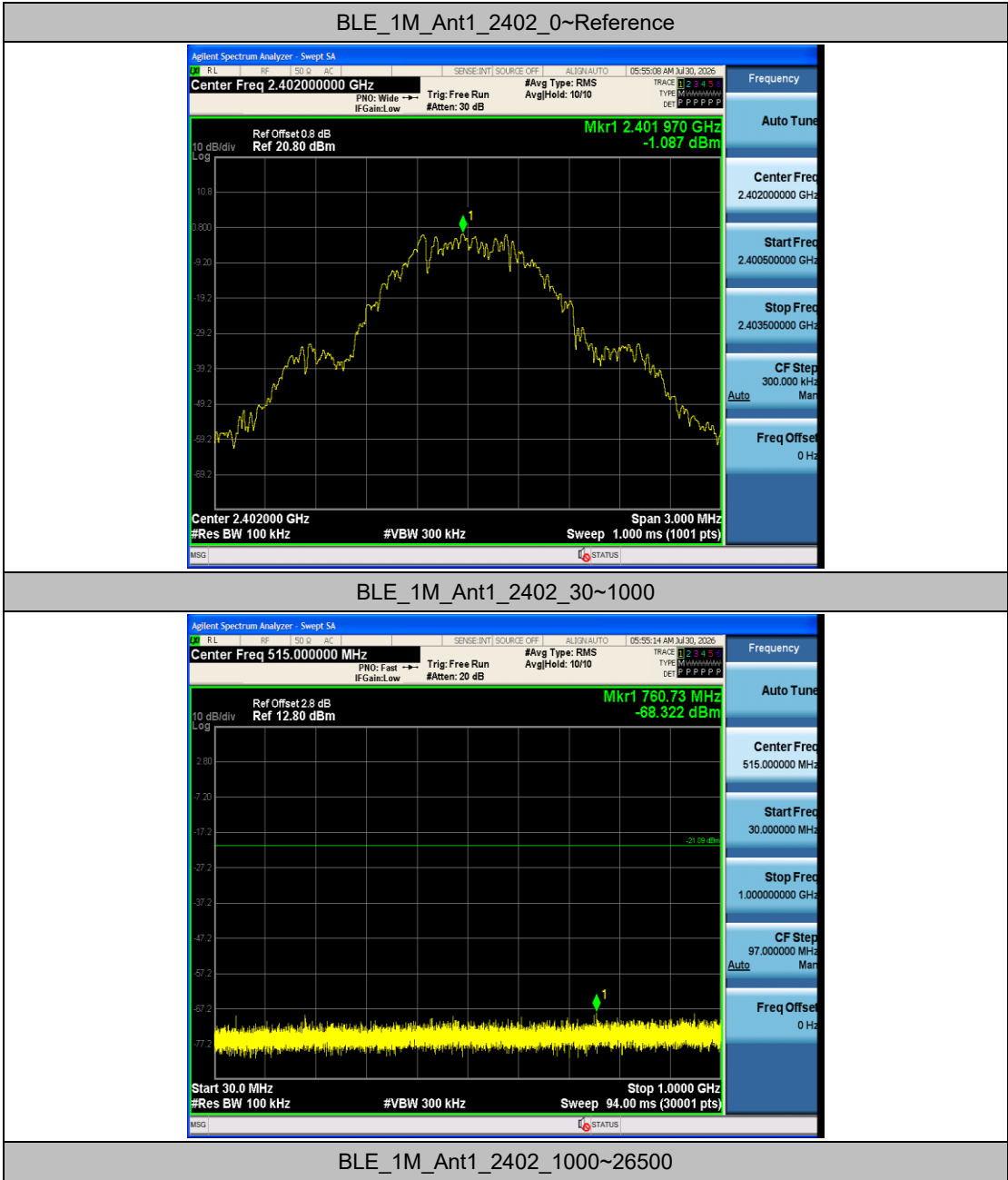


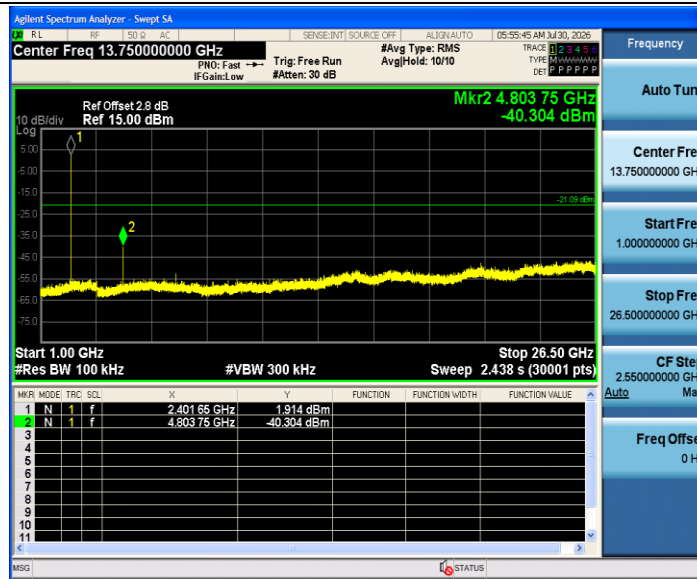
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-68.32	≤-21.09	PASS
			1000~26500	-1.09	-40.3	≤-21.09	PASS
		2440	Reference	-1.30	-1.30	---	PASS
			30~1000	-1.30	-68.02	≤-21.3	PASS
			1000~26500	-1.30	-43.49	≤-21.3	PASS
		2480	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-68.47	≤-20.35	PASS
			1000~26500	-0.35	-42.51	≤-20.35	PASS

Test Graphs

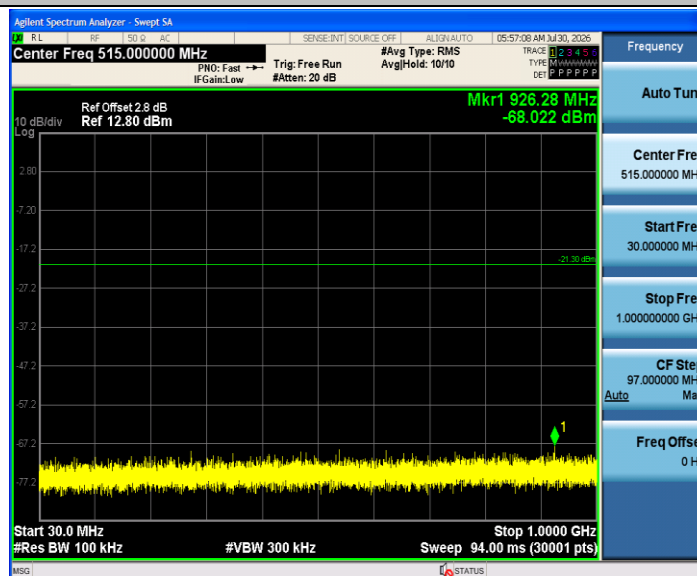




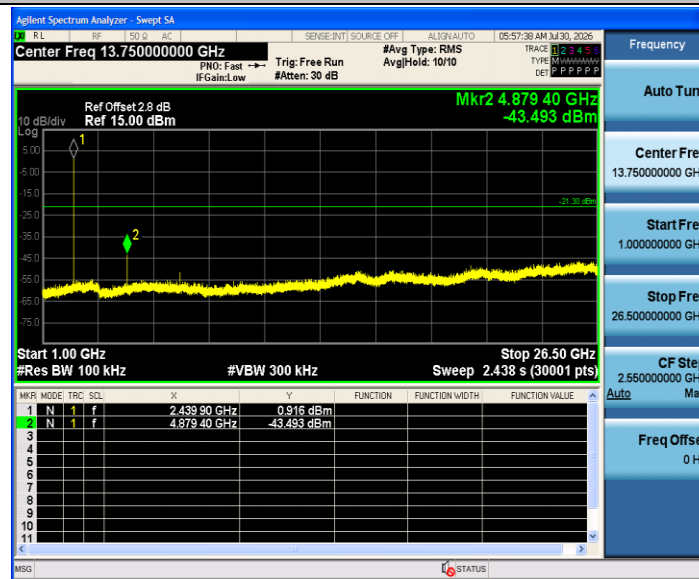
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



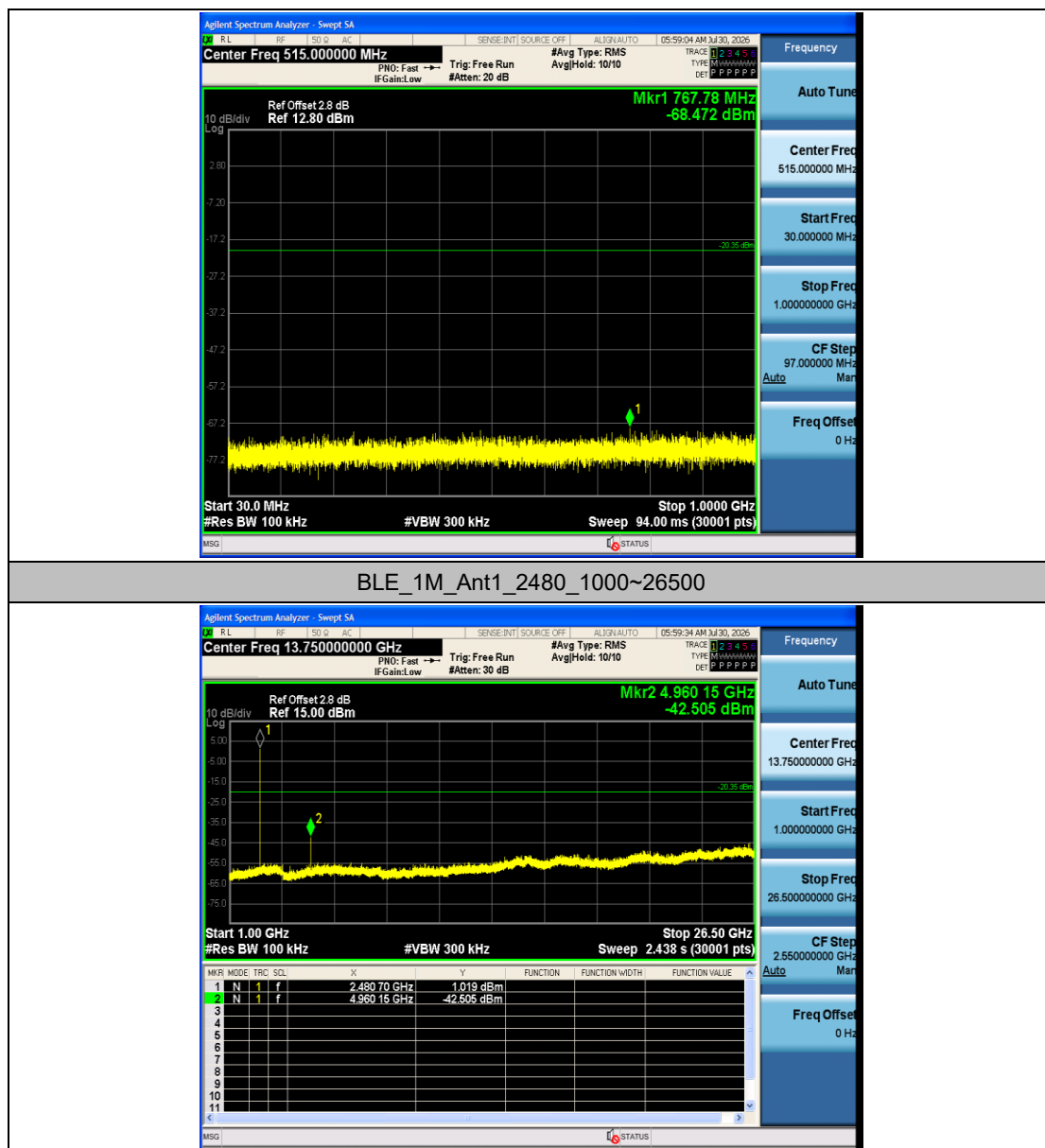
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

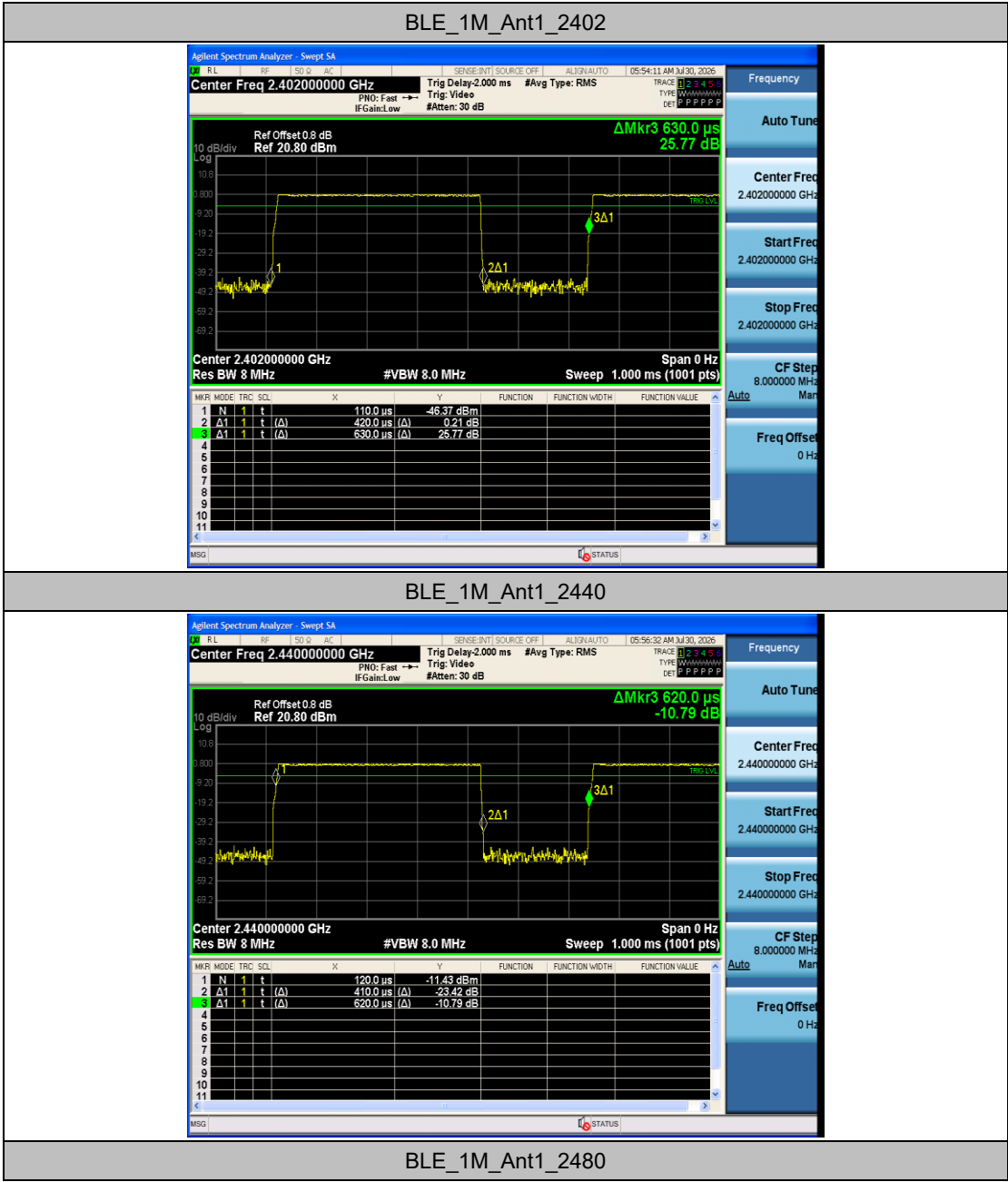


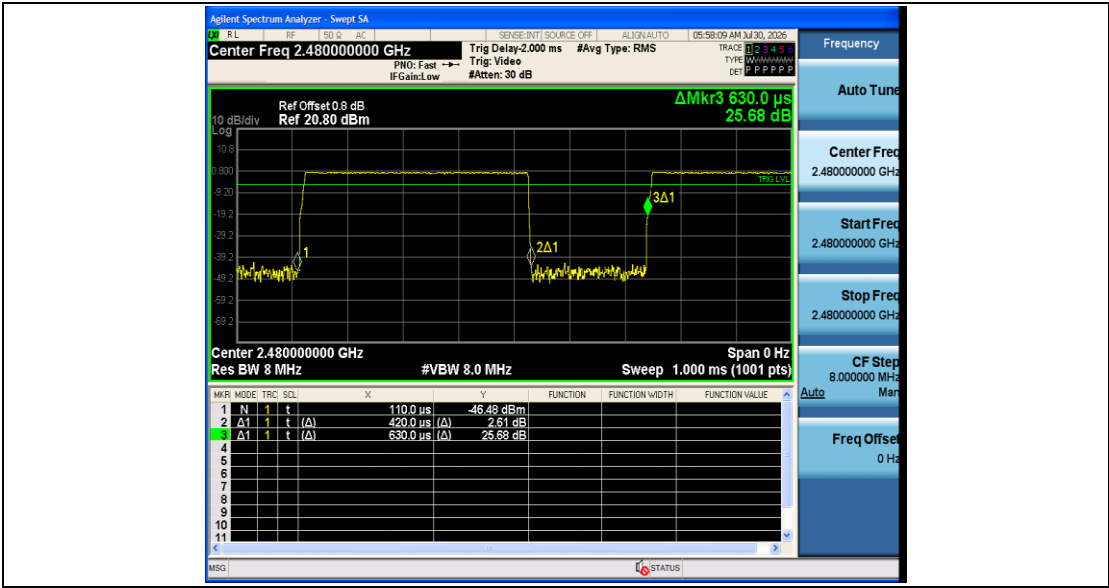
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.42	0.63	0.6667	66.67	1.76	---	---
		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

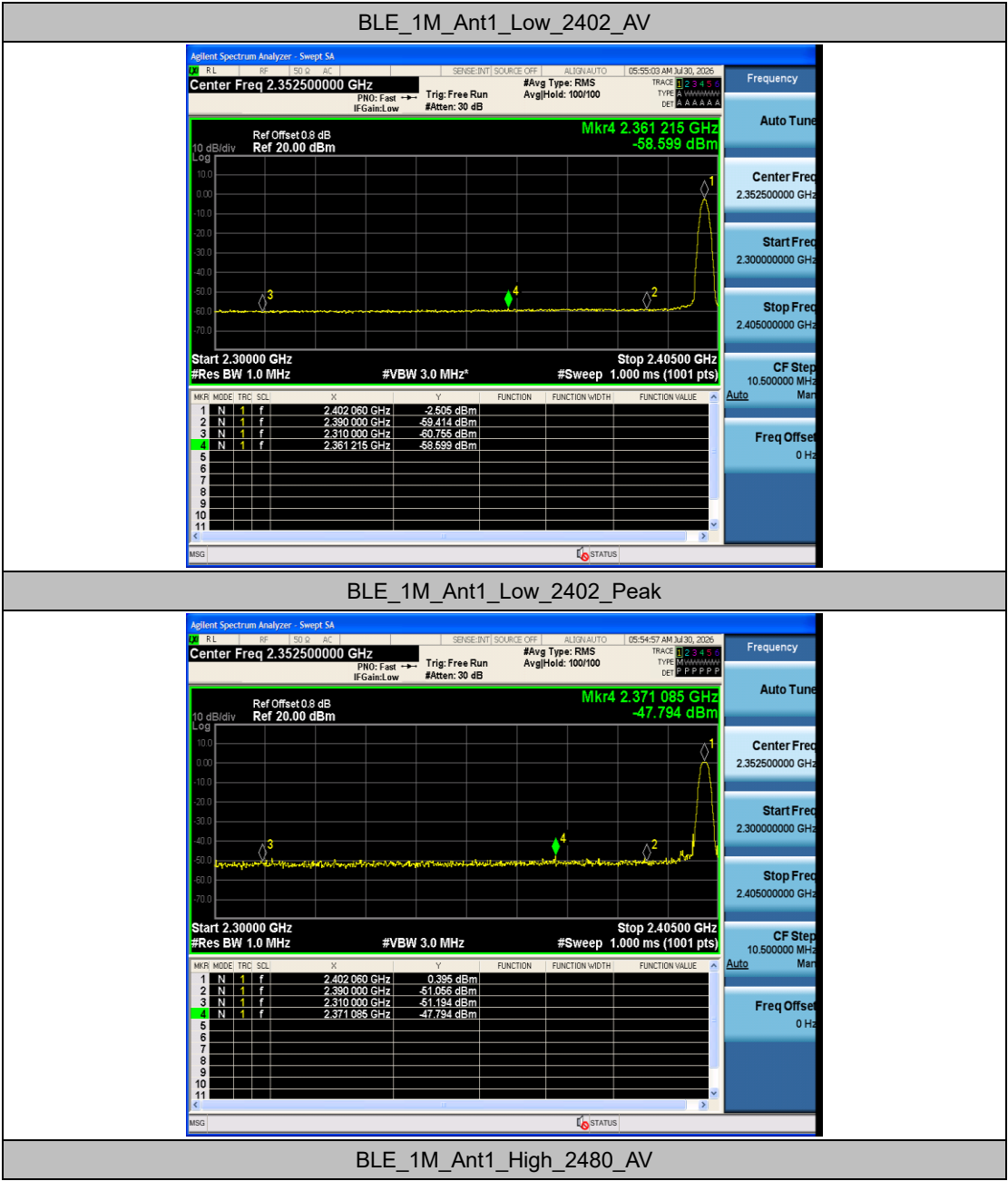
Test Result

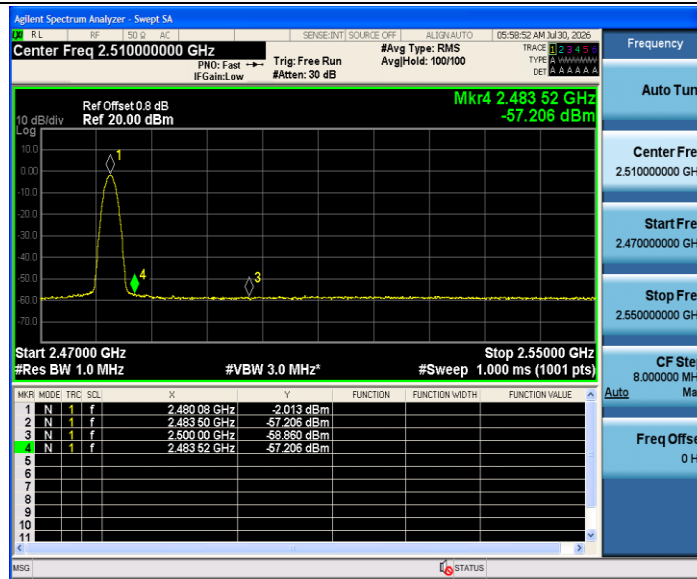
TestMode	Antenna	Channel	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-60.76	2.00	1.76	38.20	≤54	PASS
				AV	2361.215	-58.6	2.00	1.76	40.36	≤54	PASS
				AV	2390.000	-59.41	2.00	1.76	39.55	≤54	PASS
				Peak	2310.000	-51.19	2.00	0.00	46.01	≤74	PASS
				Peak	2371.085	-47.79	2.00	0.00	49.41	≤74	PASS
				Peak	2390.000	-51.06	2.00	0.00	46.14	≤74	PASS
		High	2480	AV	2483.500	-57.21	2.00	1.76	41.75	≤54	PASS
				AV	2483.520	-57.21	2.00	1.76	41.75	≤54	PASS
				AV	2500.000	-58.86	2.00	1.76	40.10	≤54	PASS
				Peak	2483.500	-48.49	2.00	0.00	48.71	≤74	PASS
				Peak	2483.920	-46.17	2.00	0.00	51.03	≤74	PASS
				Peak	2500.000	-50.04	2.00	0.00	47.16	≤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_High_2480_Peak

