

FCC Appendix RF Test Data for BLE

FCC ID : 2BVDW-G01

Company : SHENZHEN KINGRING TECHNOLOGY CO.,LTD

EUT : Smart glasses

Model Number : G01

Report No. : CTA26031600101

Reviewed By : Eric Wang

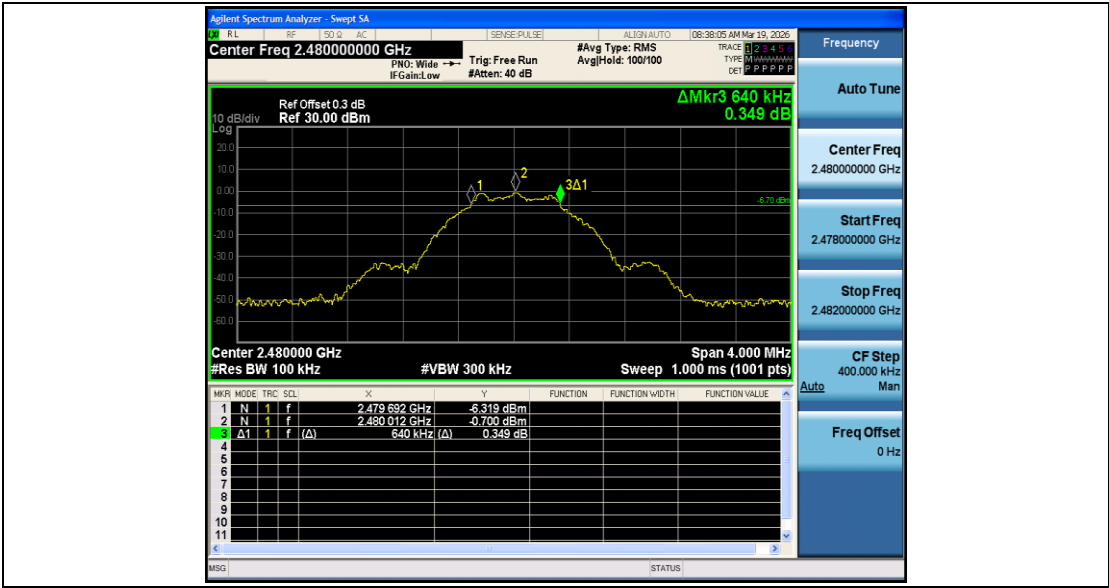
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.652	2401.692	2402.344	0.5	PASS
		2440	0.644	2439.692	2440.336	0.5	PASS
		2480	0.640	2479.692	2480.332	0.5	PASS

Test Graphs





Appendix B: Occupied Channel Bandwidth

Test Result

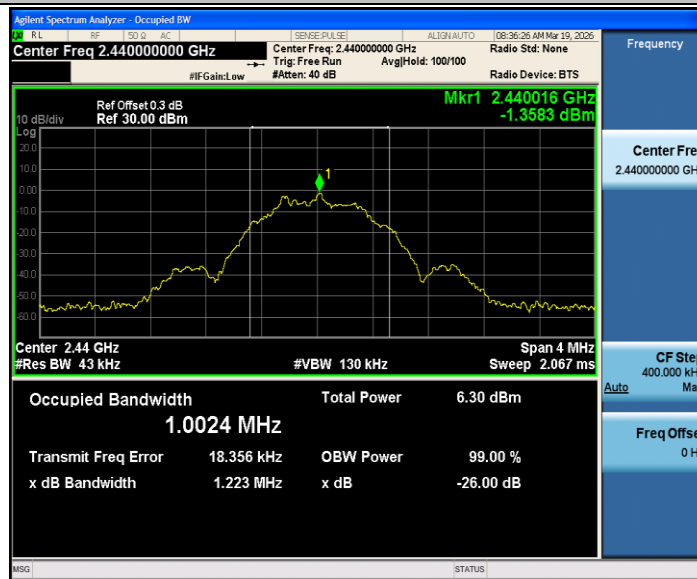
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0041	2401.5157	2402.5198	---	---
		2440	1.0024	2439.5172	2440.5196	---	---
		2480	1.0158	2479.5155	2480.5313	---	---

Test Graphs

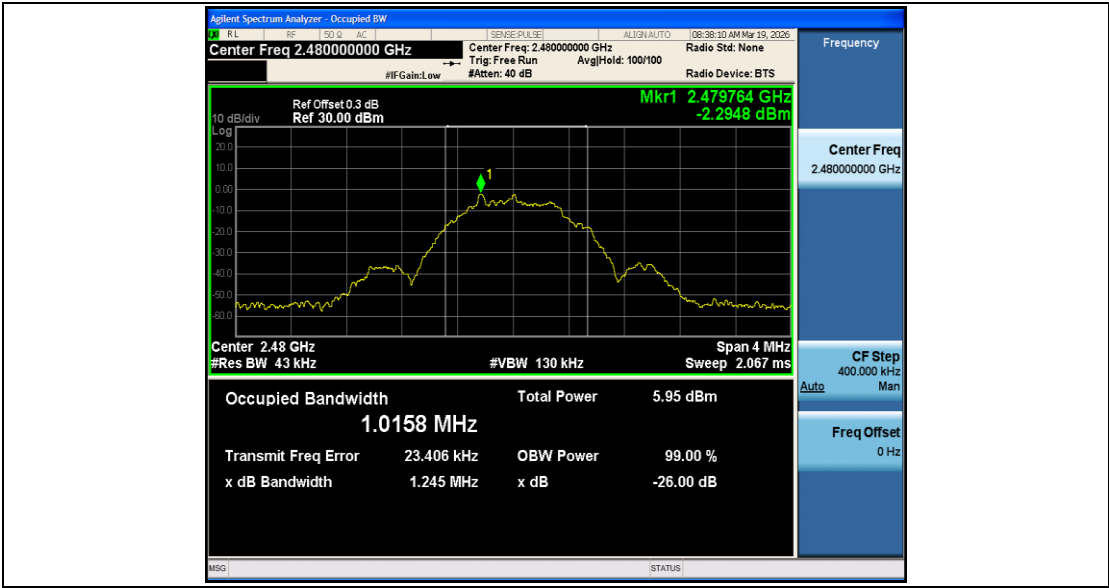
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Left:

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.03	≤30	PASS
		2440	-0.39	≤30	PASS
		2480	-0.48	≤30	PASS

Right:

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.12	≤30	PASS
		2440	-0.48	≤30	PASS
		2480	-0.59	≤30	PASS

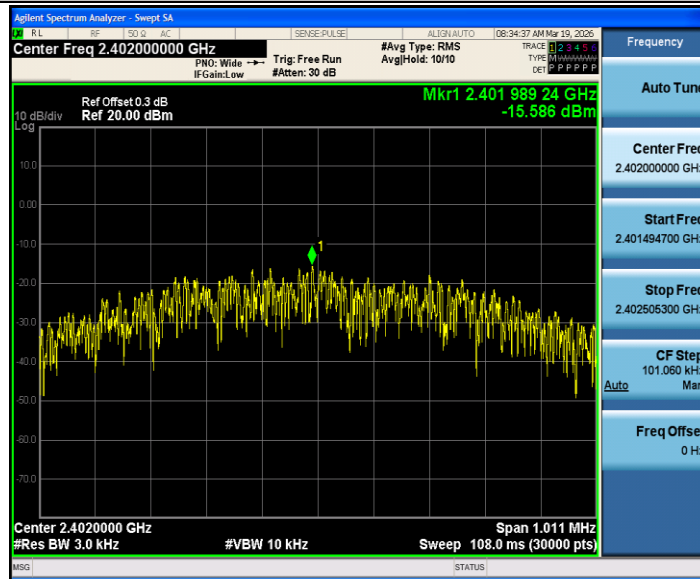
Appendix D: Maximum power spectral density

Test Result

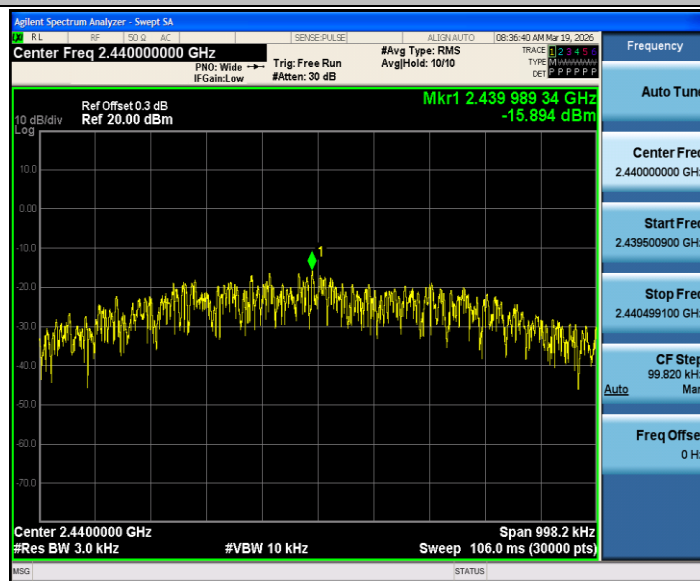
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.59	≤8.00	PASS
		2440	-15.89	≤8.00	PASS
		2480	-16.07	≤8.00	PASS

Test Graphs

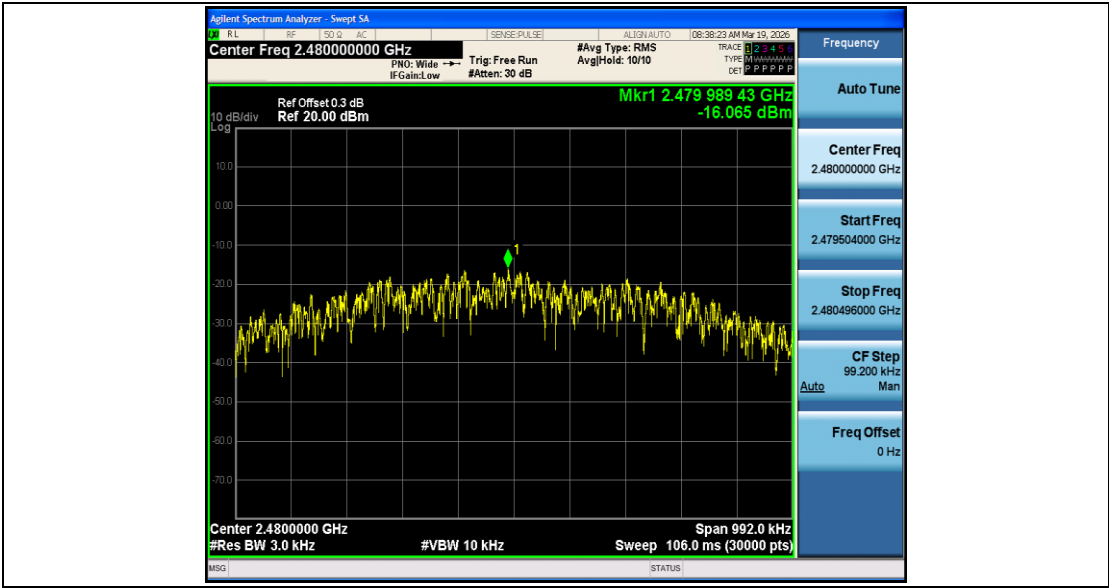
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

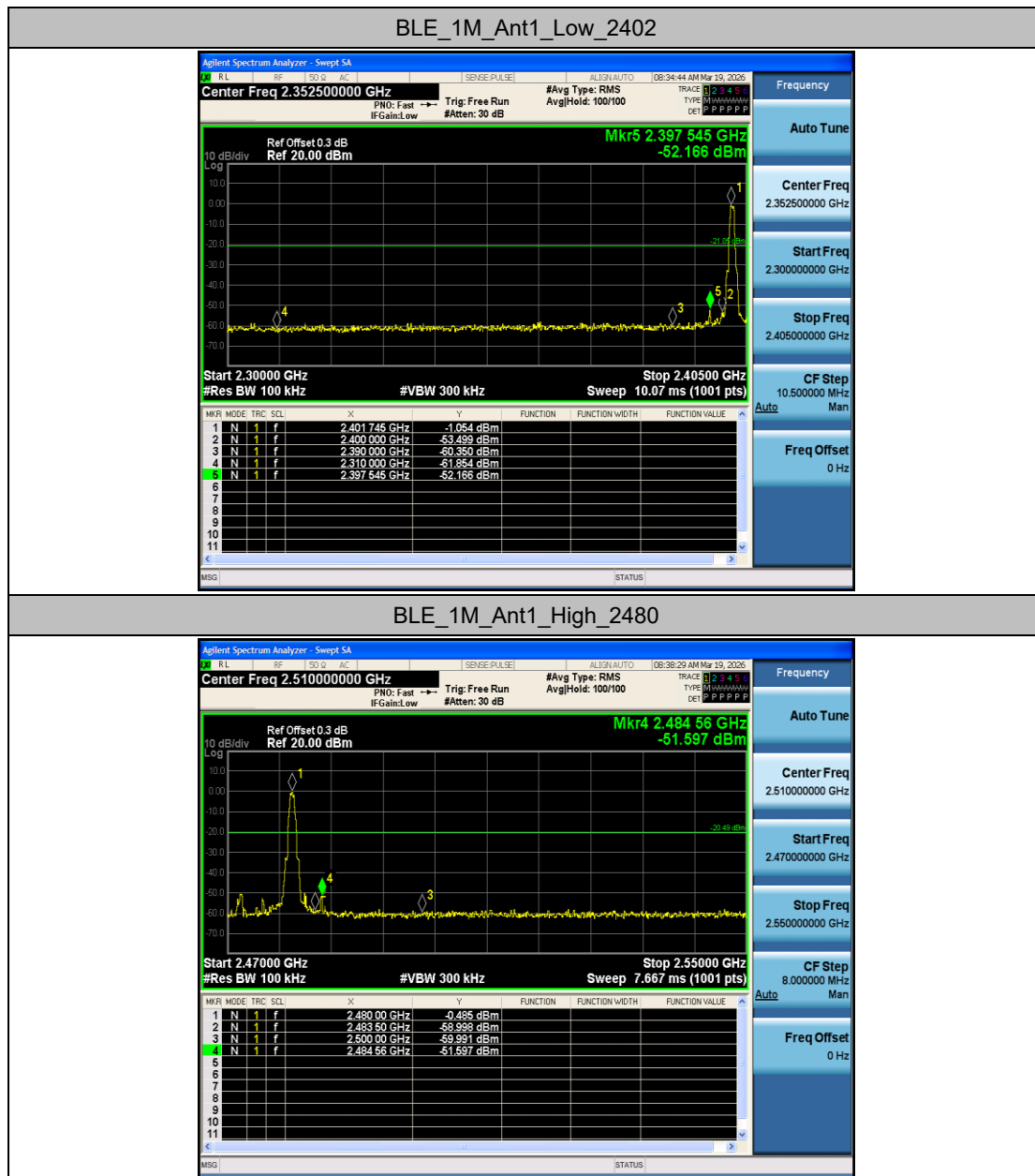


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.05	-52.17	≤-21.05	PASS
		High	2480	-0.49	-51.6	≤-20.49	PASS

Test Graphs

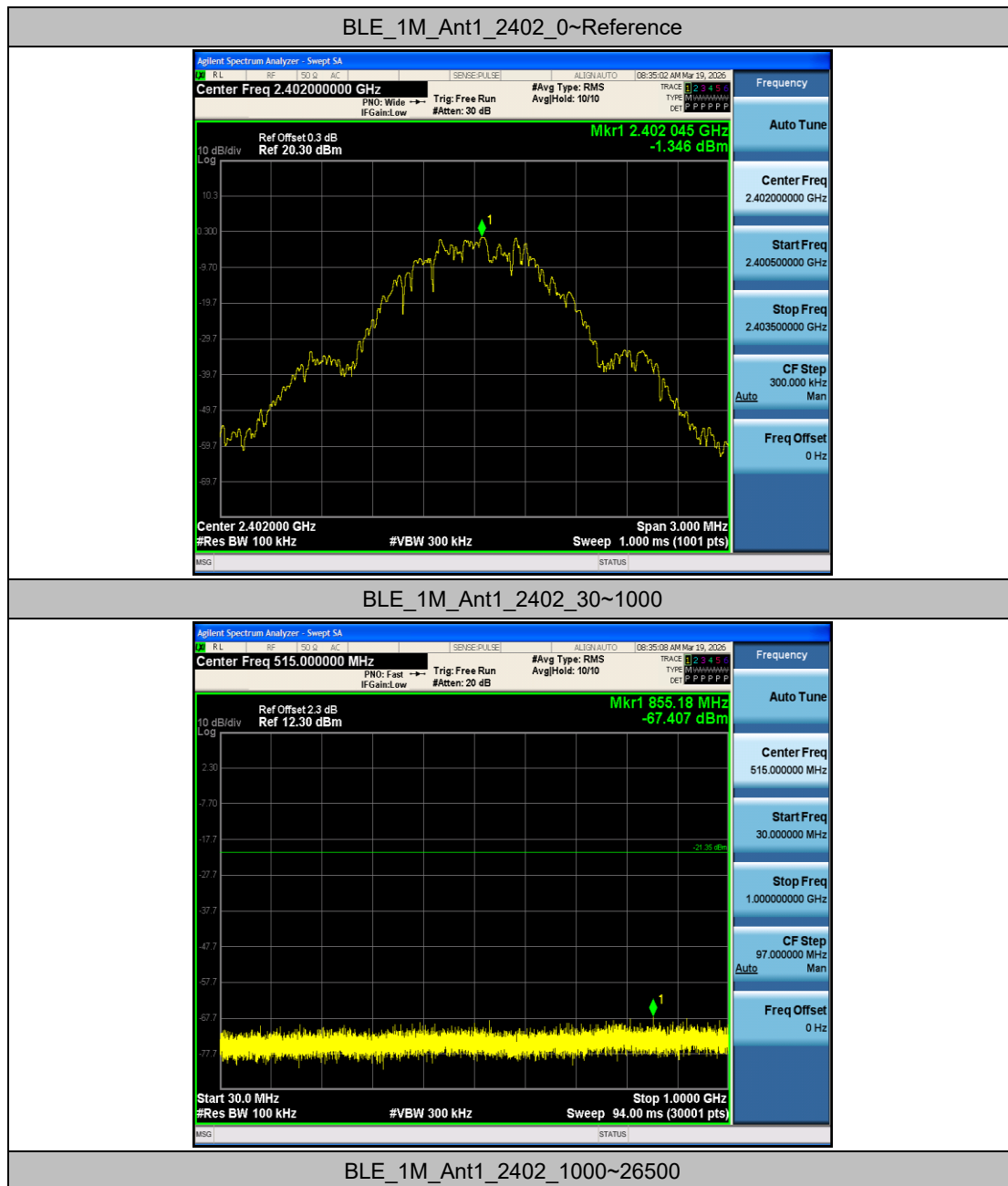


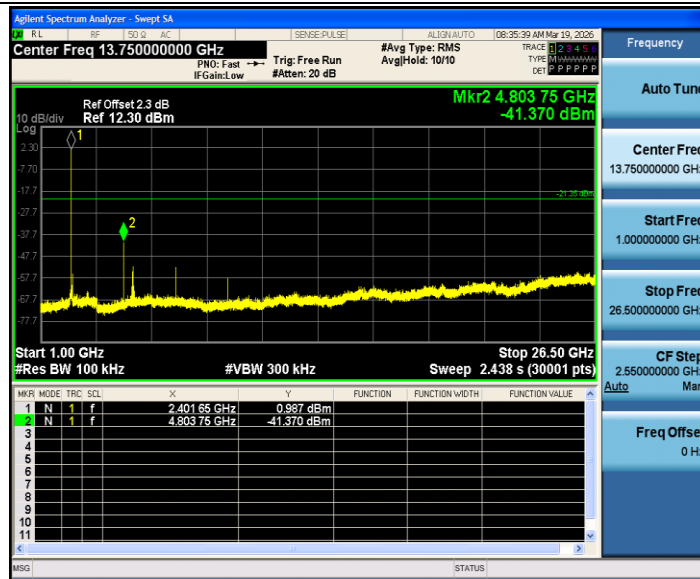
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-67.41	≤-21.35	PASS
			1000~26500	-1.35	-41.37	≤-21.35	PASS
		2440	Reference	-2.44	-2.44	---	PASS
			30~1000	-2.44	-68.14	≤-22.44	PASS
			1000~26500	-2.44	-43.85	≤-22.44	PASS
		2480	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-66.62	≤-21.19	PASS
			1000~26500	-1.19	-43.41	≤-21.19	PASS

Test Graphs

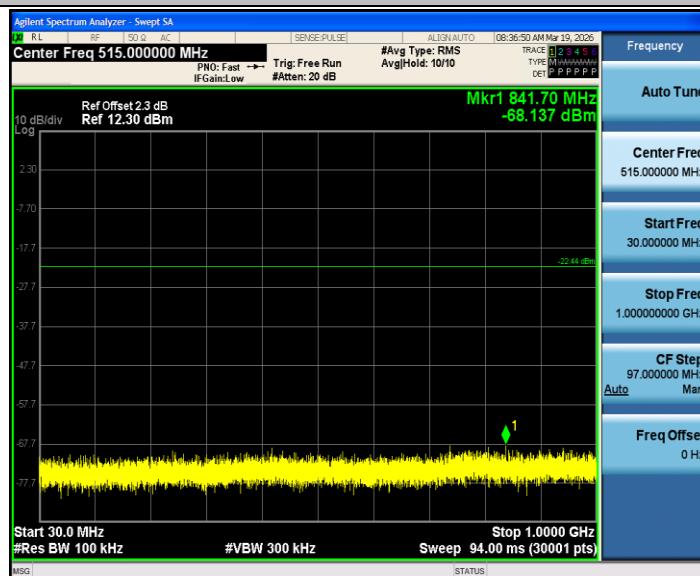




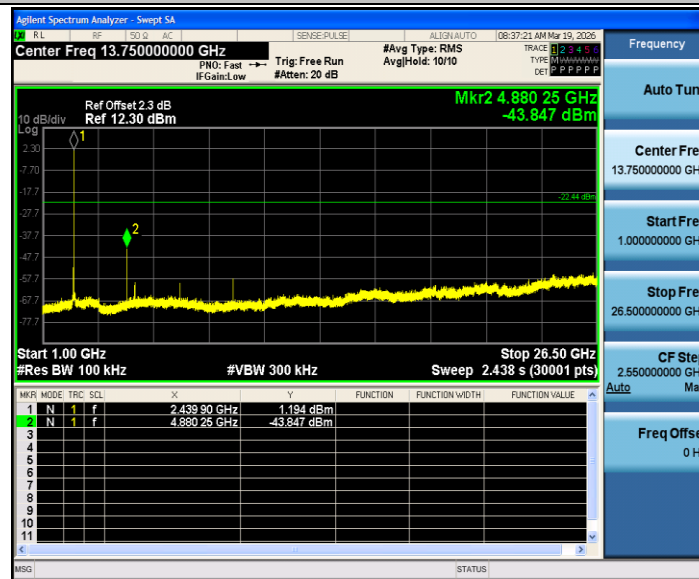
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



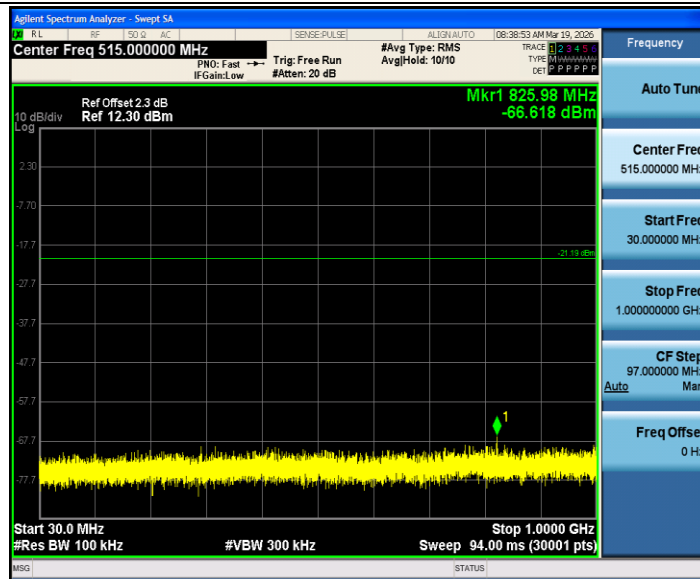
BLE_1M_Ant1_2440_1000~26500



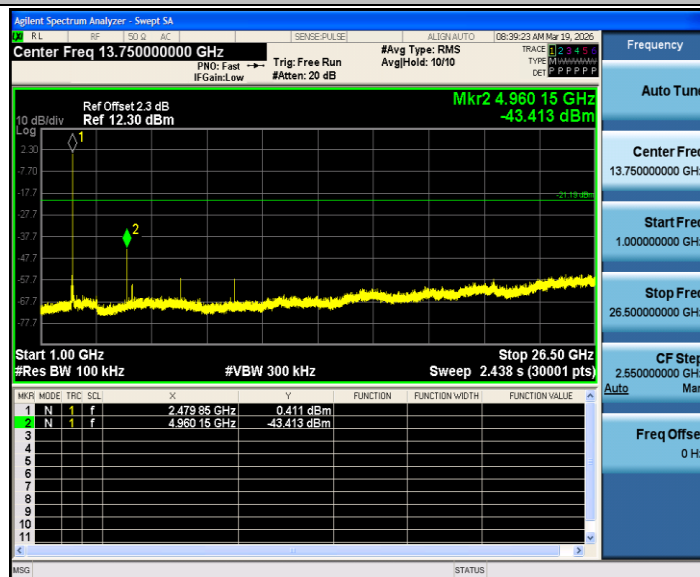
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

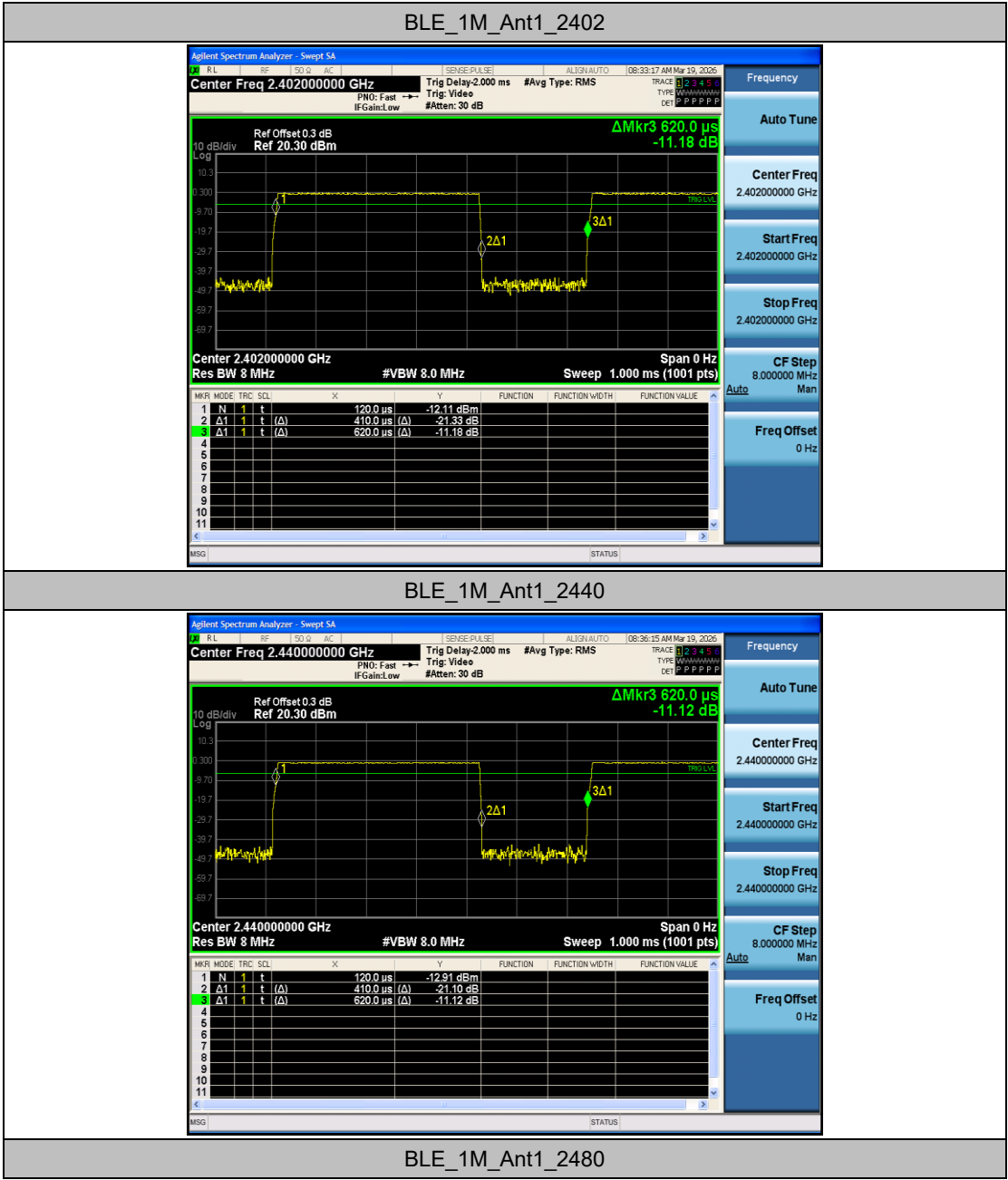


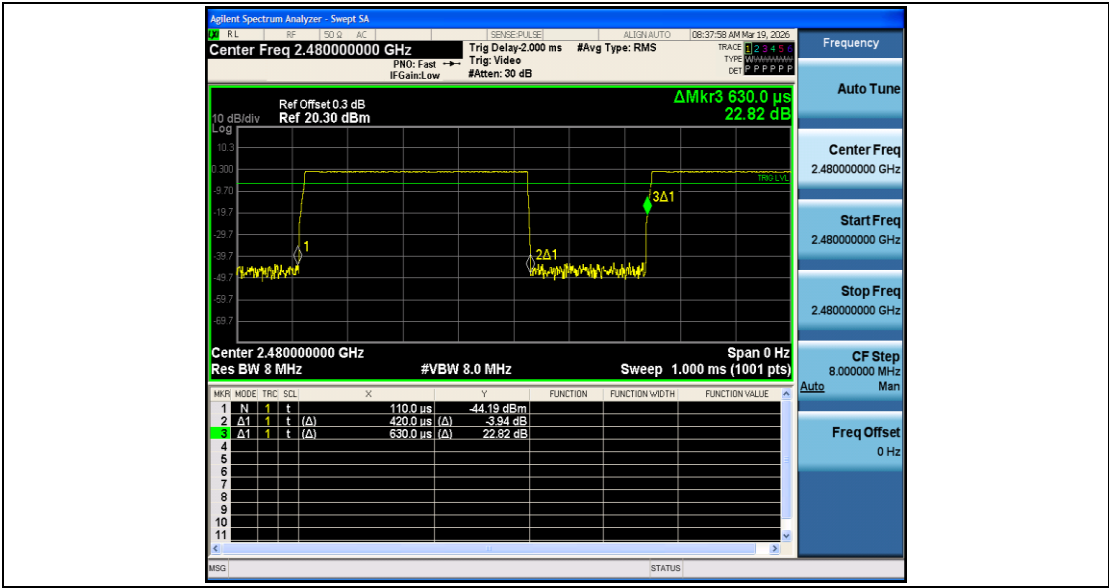
Appendix G: Duty Cycle

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

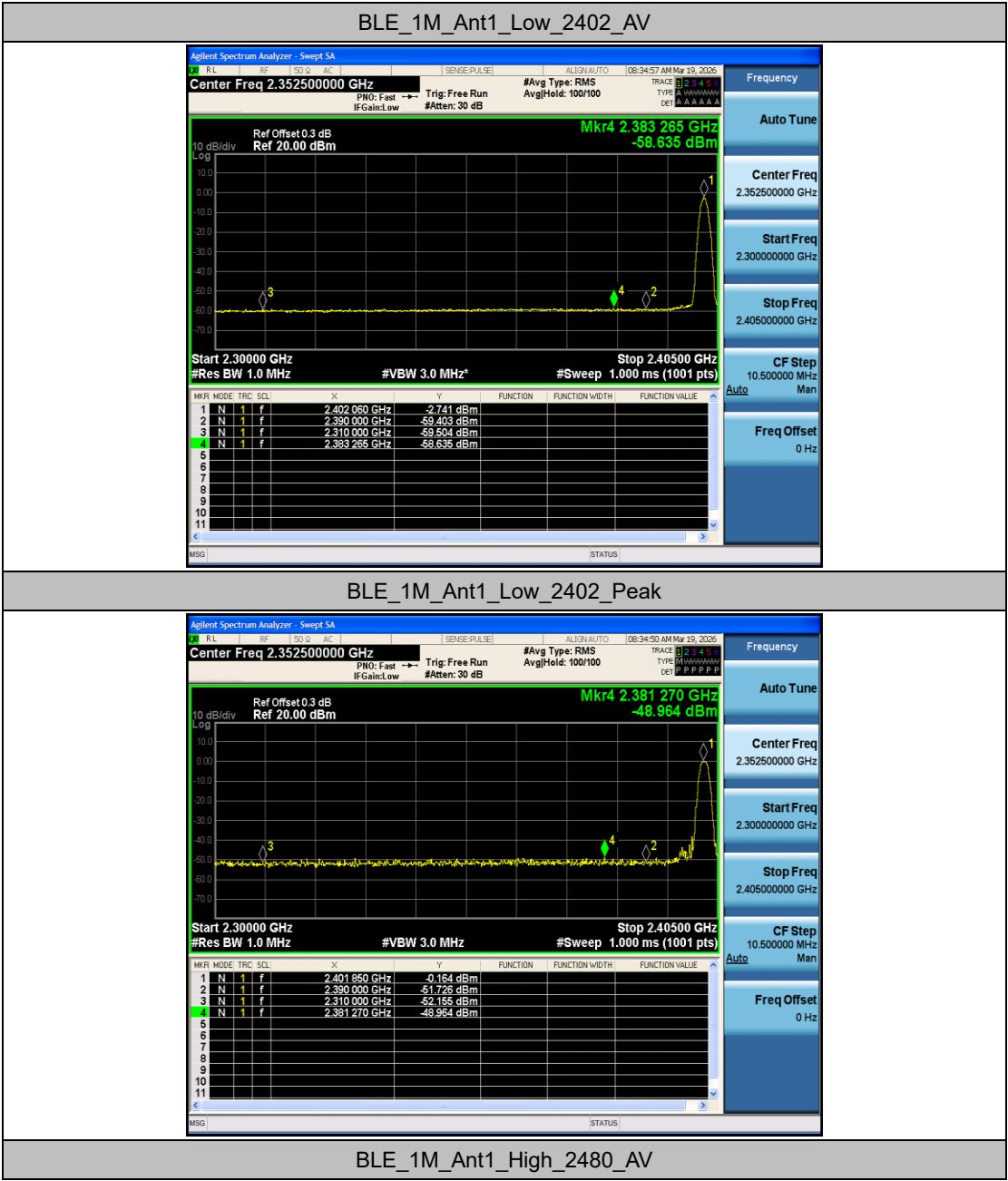
Test Result

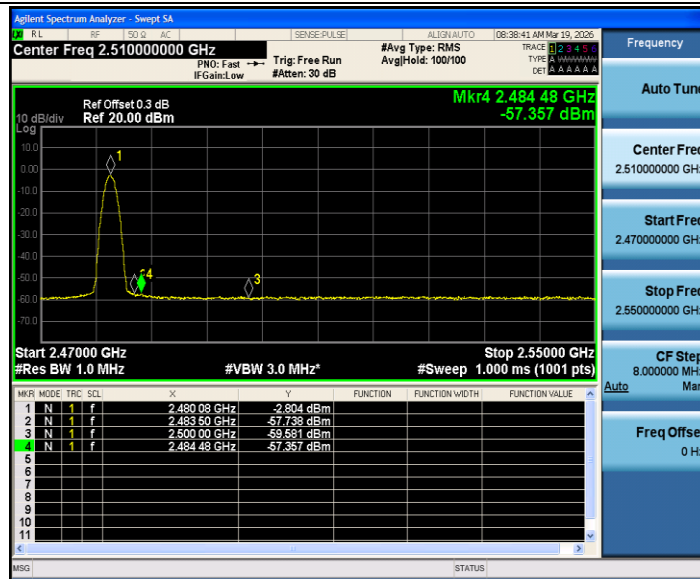
TestMod e	Antenn a	ChNam e	Freq(MHz)	Detecto r	Freq [MHz]	Resul t [dBm]	Gai n [dB]	DC Facto r [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdic t
BLE_1M	Ant1	Low	2402	AV	2310.00 0	-59.5	2.00	1.80	39.50	≤54	PASS
				AV	2383.26 5	- 58.64	2.00	1.80	40.36	≤54	PASS
				AV	2390.00 0	-59.4	2.00	1.80	39.60	≤54	PASS
				Peak	2310.00 0	- 52.16	2.00	0.00	45.04	≤74	PASS
				Peak	2381.27 0	- 48.96	2.00	0.00	48.24	≤74	PASS
				Peak	2390.00 0	- 51.73	2.00	0.00	45.47	≤74	PASS
		High	2480	AV	2483.50 0	- 57.74	2.00	1.76	41.22	≤54	PASS
				AV	2484.48 0	- 57.36	2.00	1.76	41.60	≤54	PASS
				AV	2500.00 0	- 59.58	2.00	1.76	39.38	≤54	PASS
				Peak	2483.50 0	- 48.96	2.00	0.00	48.24	≤74	PASS
				Peak	2484.32 0	- 45.51	2.00	0.00	51.69	≤74	PASS
				Peak	2500.00 0	- 51.32	2.00	0.00	45.88	≤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_High_2480_Peak

