

FCC Appendix RF Test Data for BLE

FCC ID : 2BUSJ-DESKTOP

Company : ShaoXingKaiLiDianZiShangWuYouXianGongSi

EUT : LED ring light

Model Number : 10-inch desktop LED ring light

Report No. : CTA26012600701

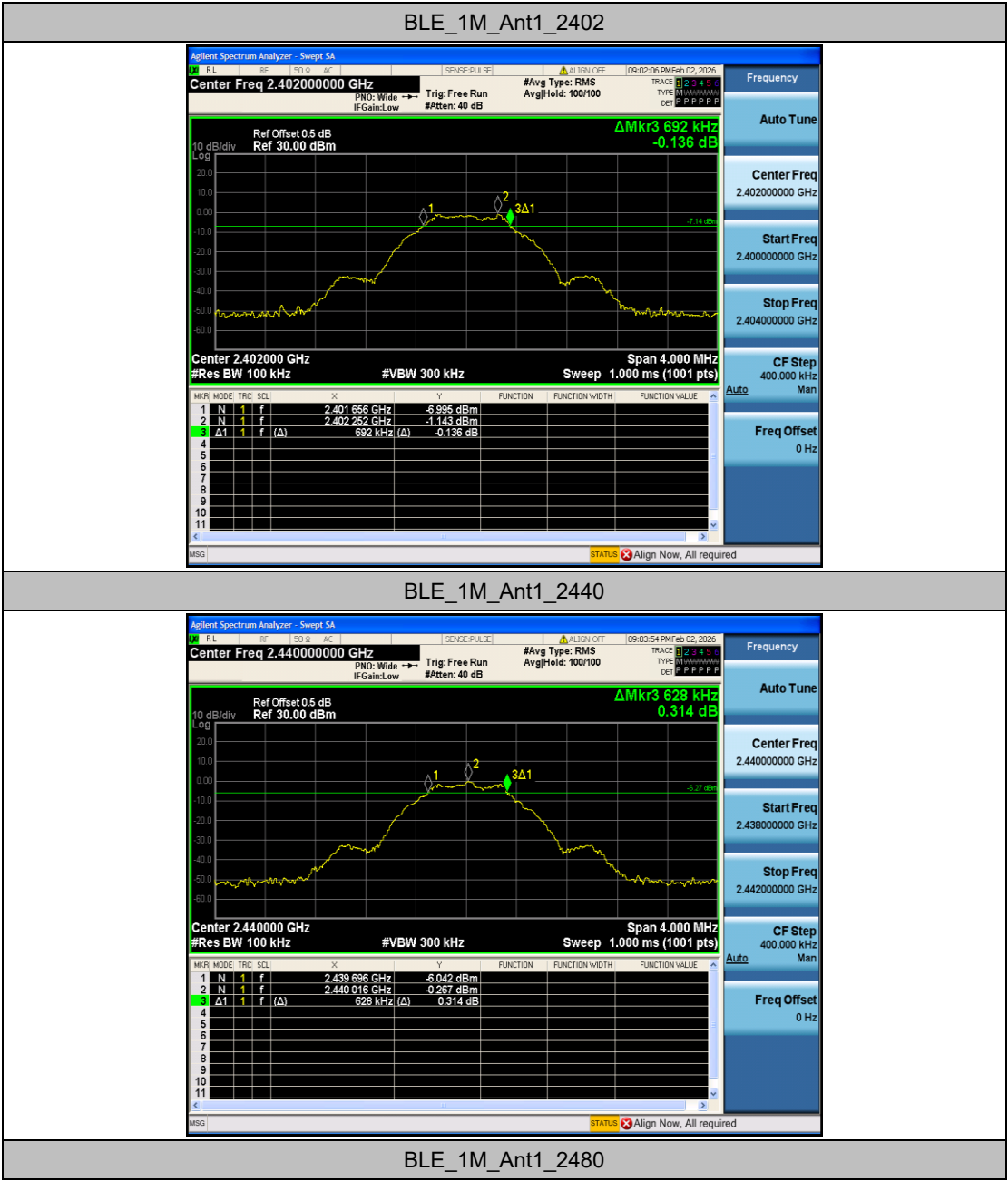
Reviewed By : Eric Wang

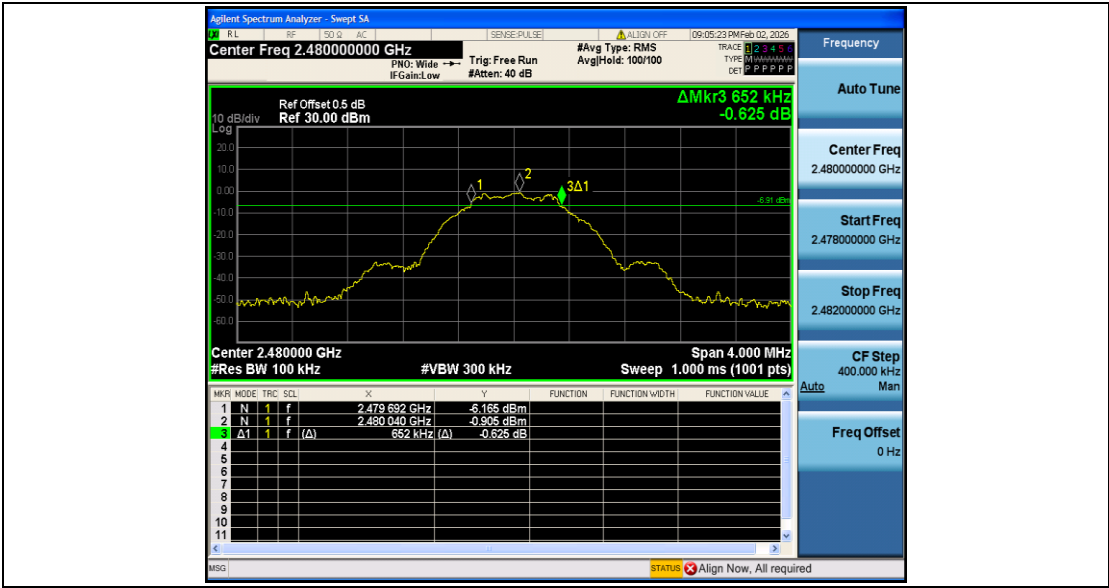
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.692	2401.656	2402.348	0.5	PASS
		2440	0.628	2439.696	2440.324	0.5	PASS
		2480	0.652	2479.692	2480.344	0.5	PASS

Test Graphs



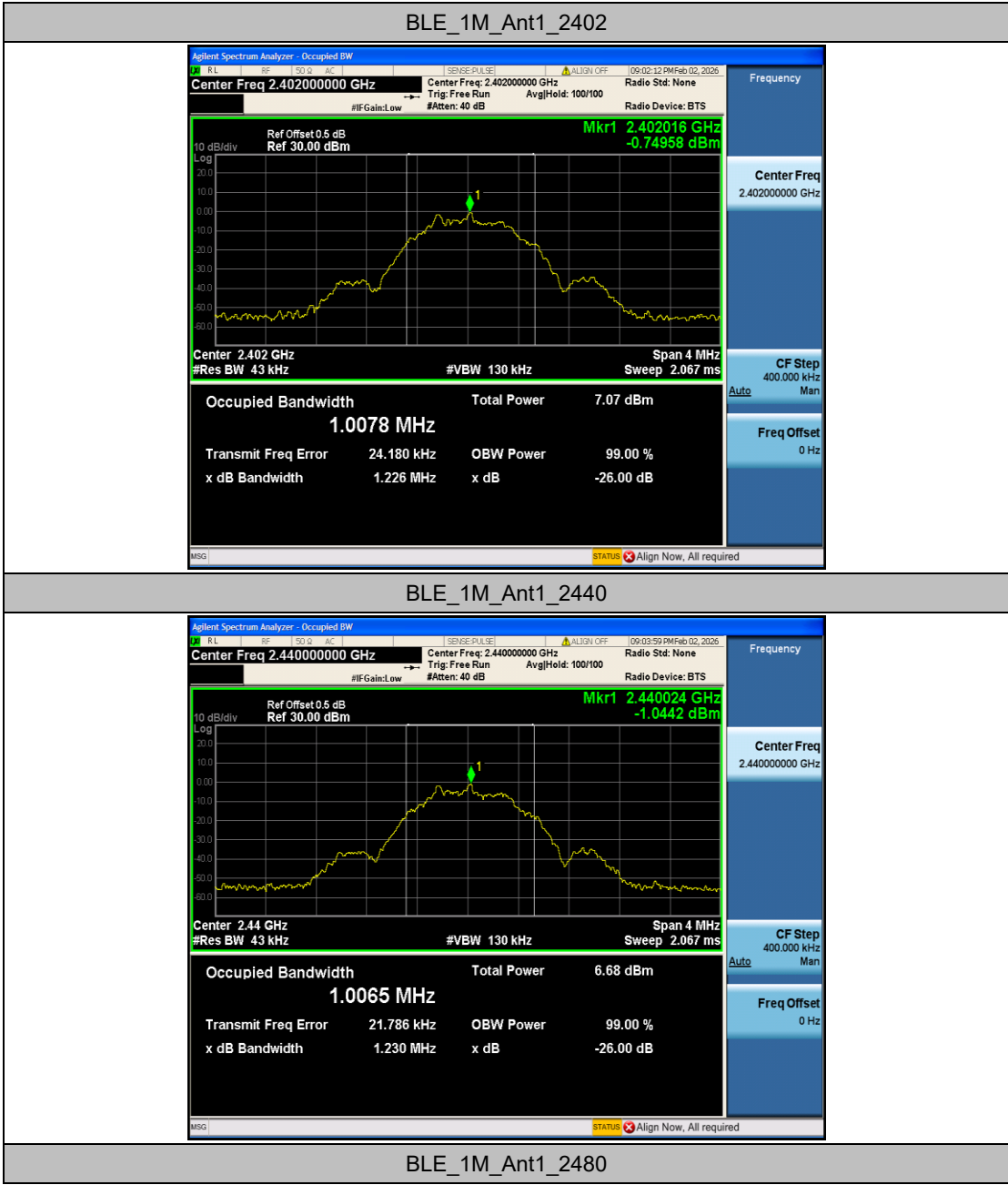


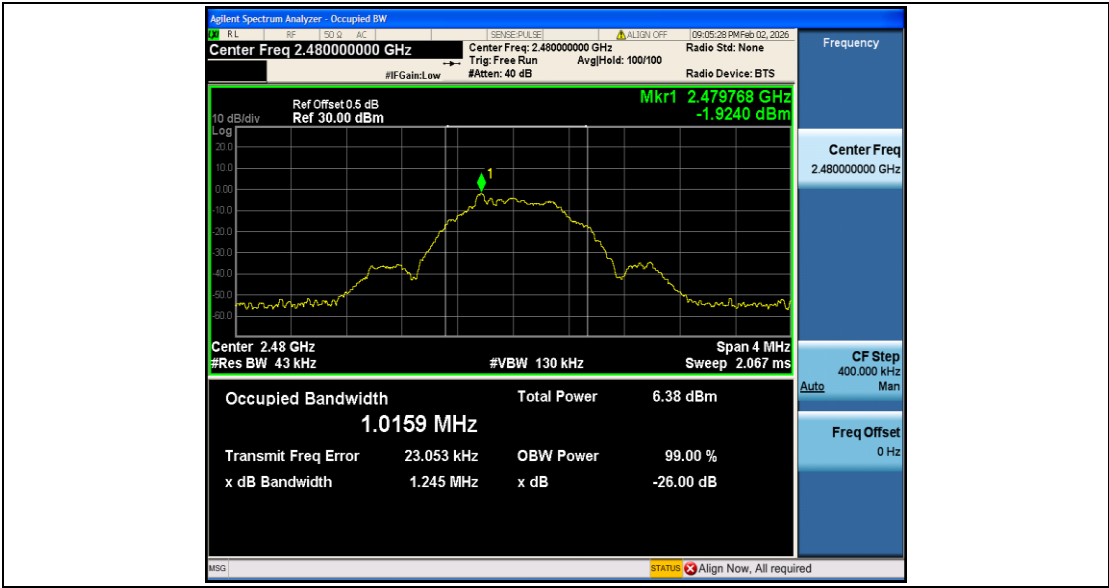
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0078	2401.5203	2402.5281	---	---
		2440	1.0065	2439.5185	2440.5250	---	---
		2480	1.0159	2479.5151	2480.5310	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

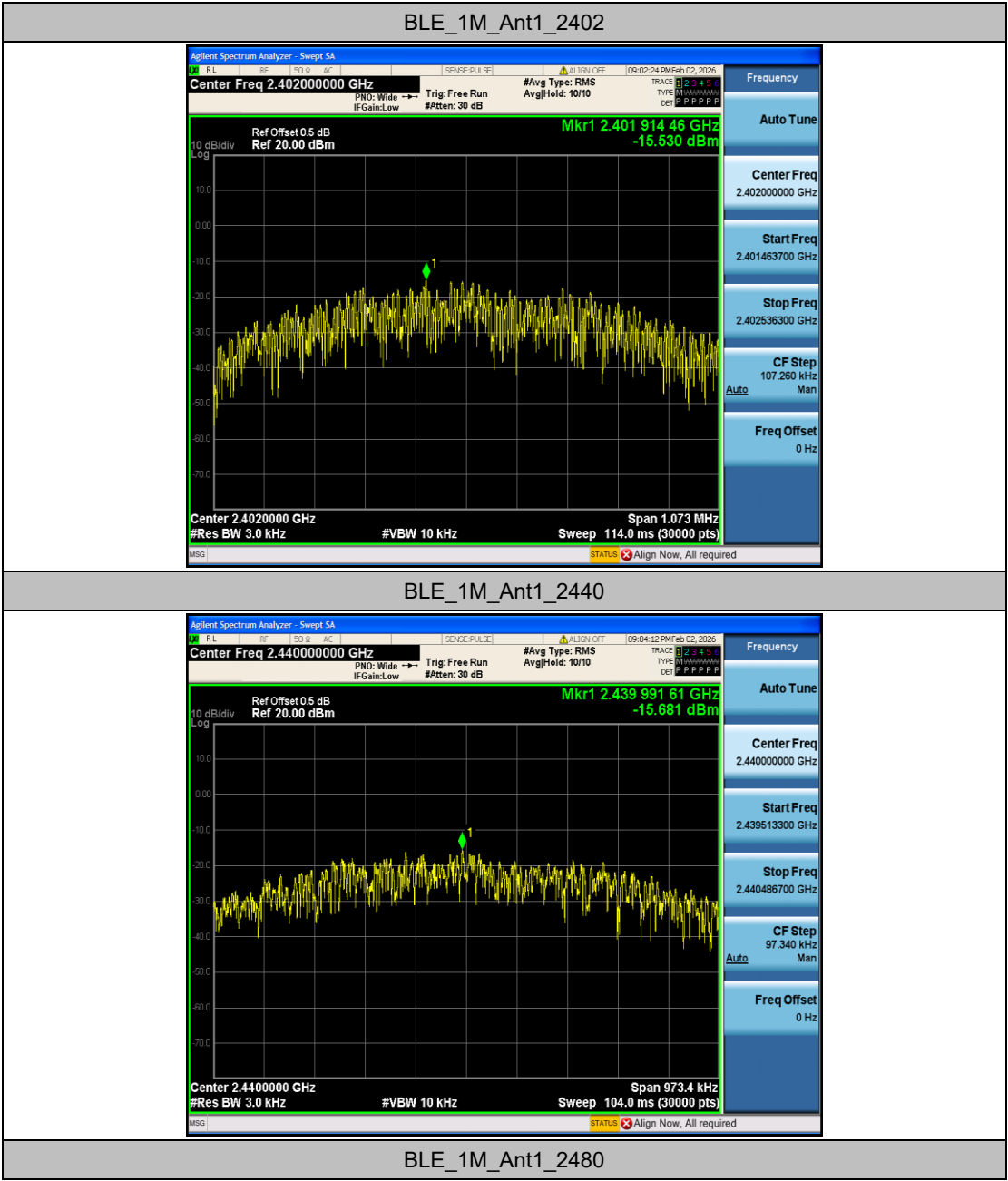
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.33	≤30	PASS
		2440	0.04	≤30	PASS
		2480	-0.03	≤30	PASS

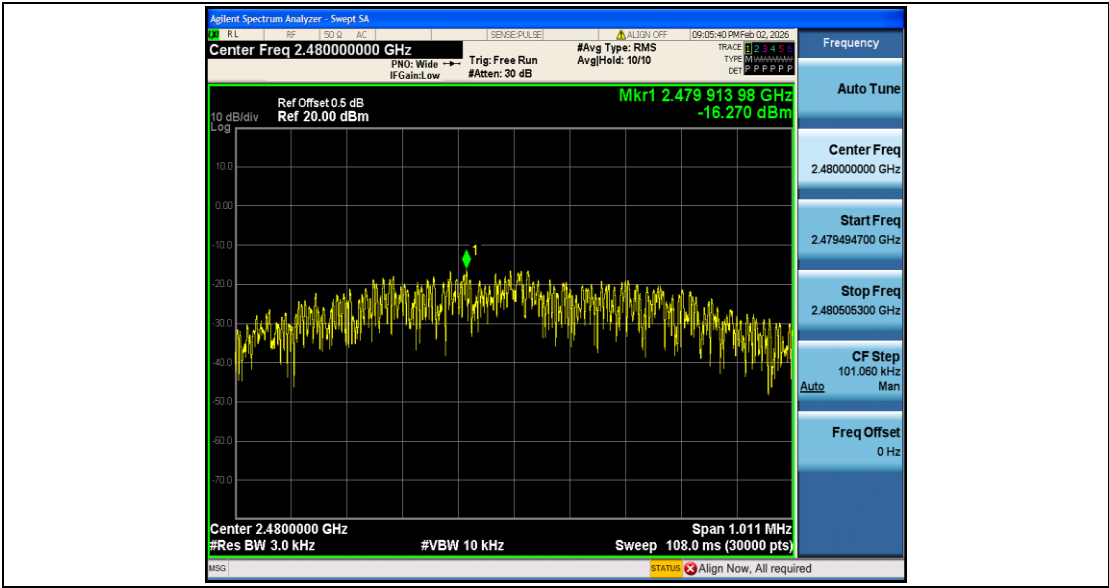
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.53	≤8.00	PASS
		2440	-15.68	≤8.00	PASS
		2480	-16.27	≤8.00	PASS

Test Graphs



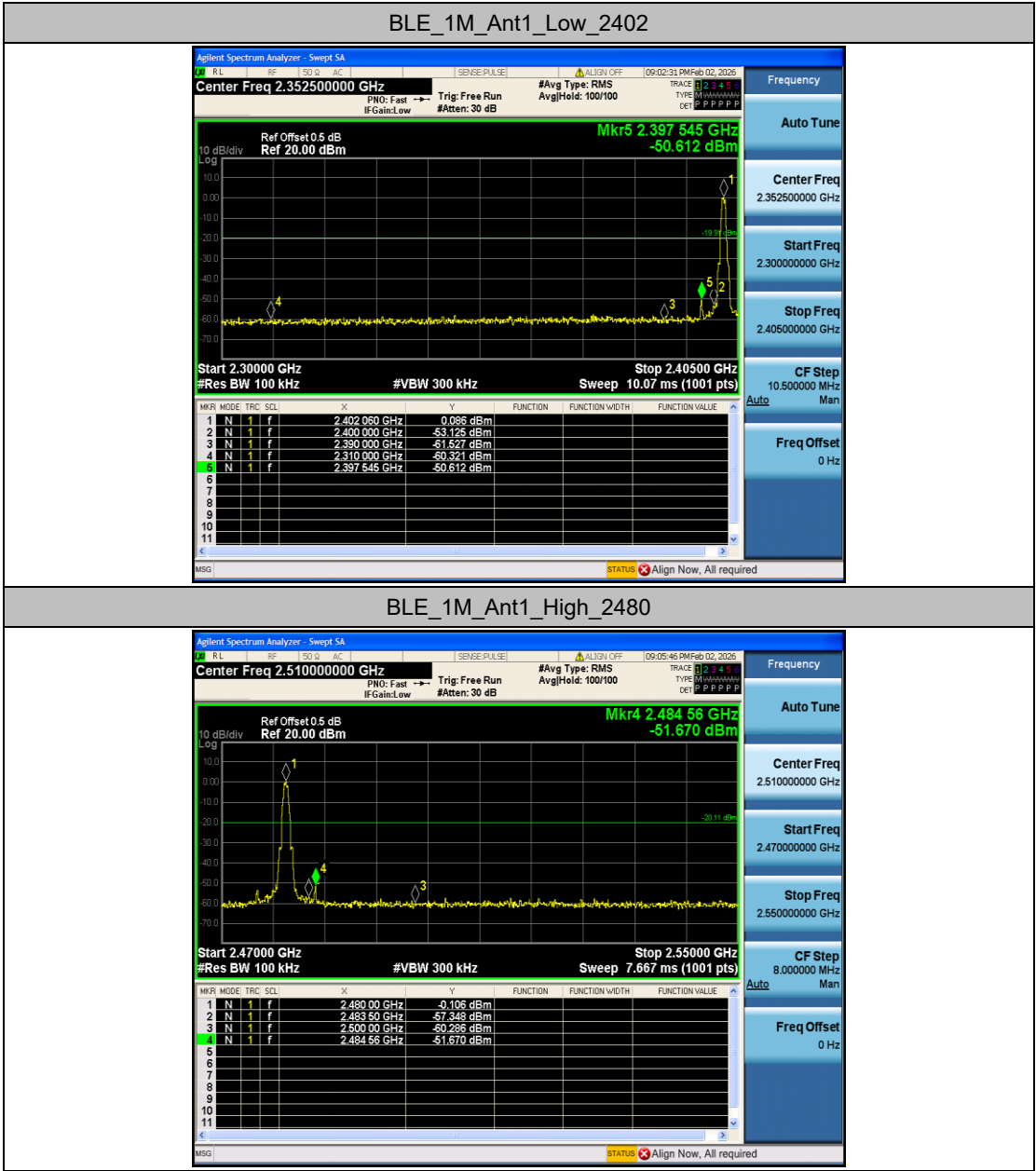


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	0.09	-50.61	≤-19.91	PASS
		High	2480	-0.11	-51.67	≤-20.11	PASS

Test Graphs



Appendix F: Conducted Spurious Emission

Test Result

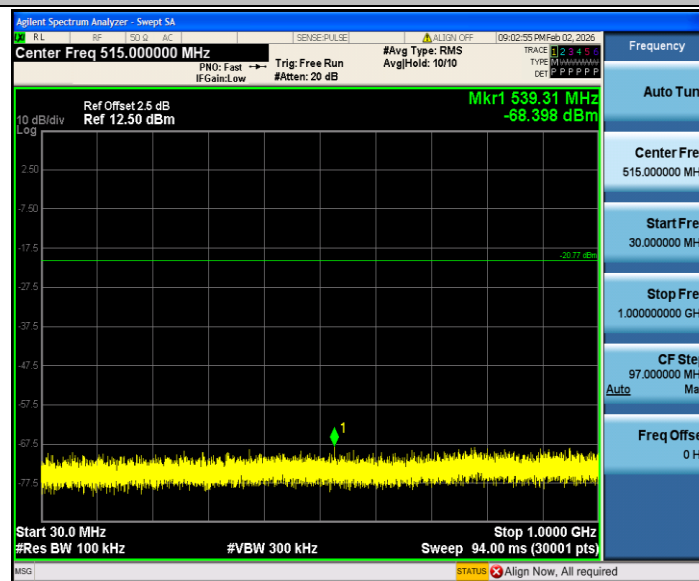
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-68.4	≤-20.77	PASS
			1000~26500	-0.77	-41.78	≤-20.77	PASS
		2440	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-67.87	≤-20.53	PASS
			1000~26500	-0.53	-41.74	≤-20.53	PASS
		2480	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-68.17	≤-20.36	PASS
			1000~26500	-0.36	-42.28	≤-20.36	PASS

Test Graphs

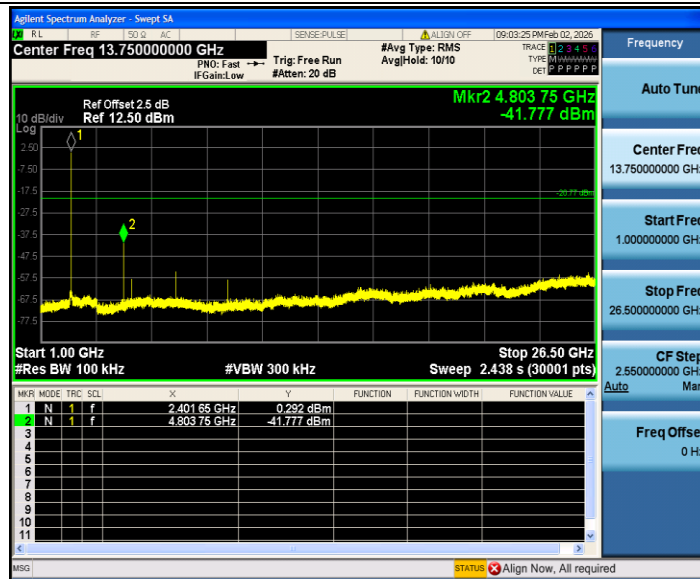
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



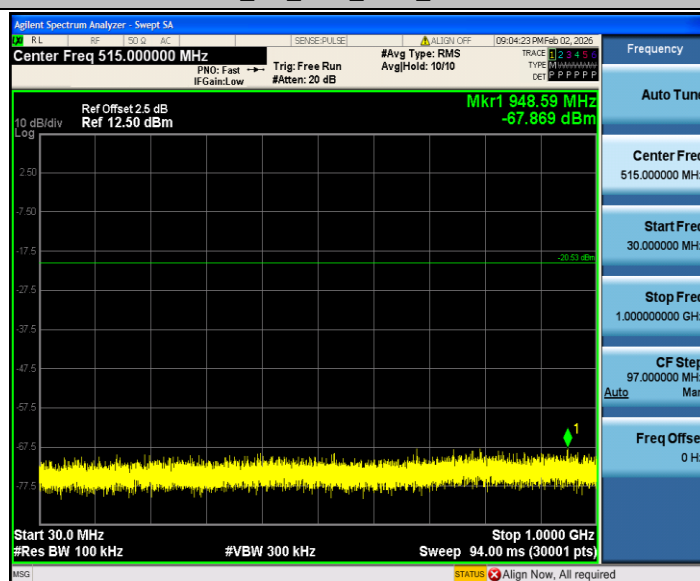
BLE_1M_Ant1_2402_1000~26500



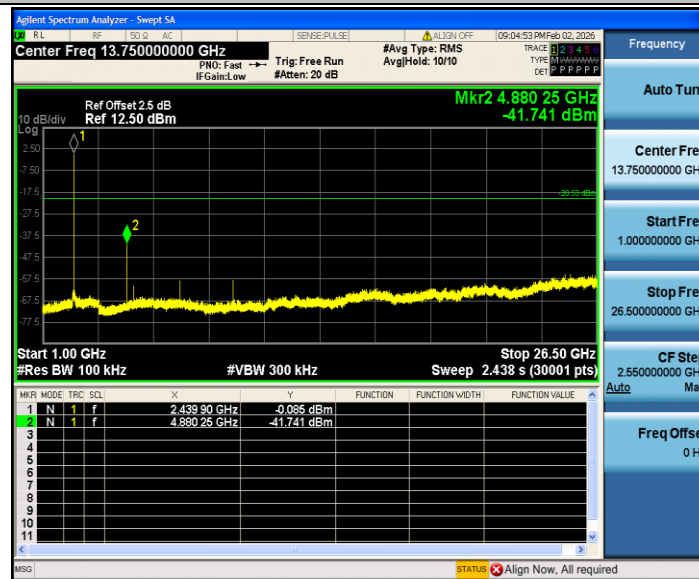
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



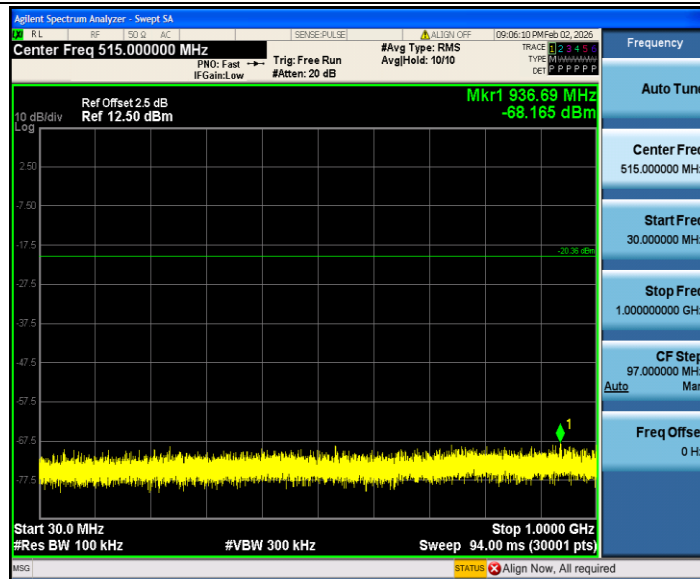
BLE_1M_Ant1_2440_1000~26500



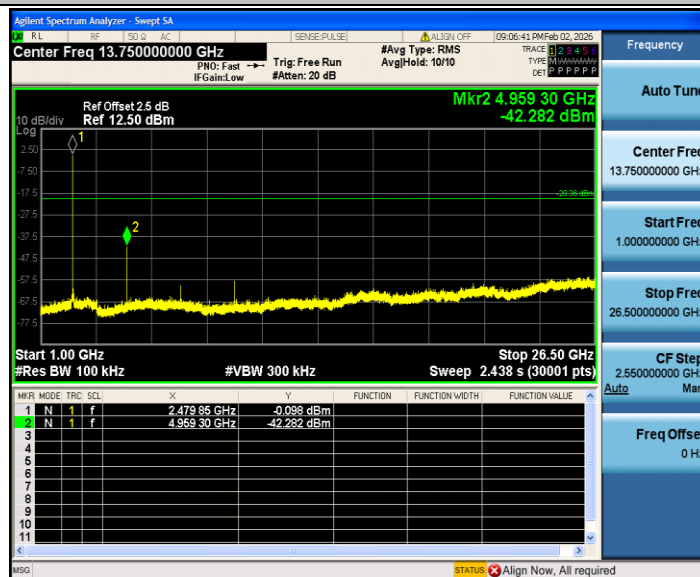
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

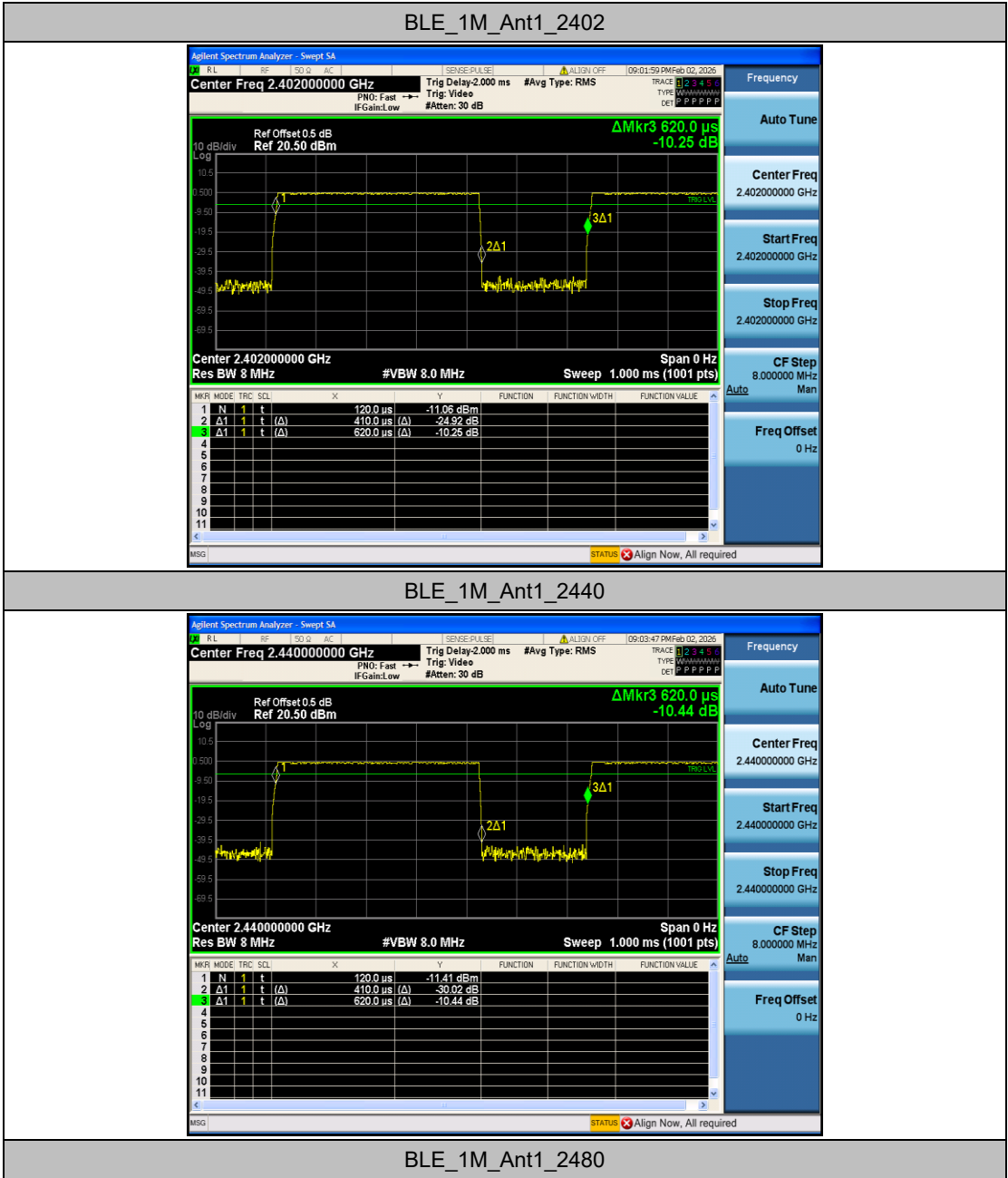


Appendix G: Duty Cycle

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

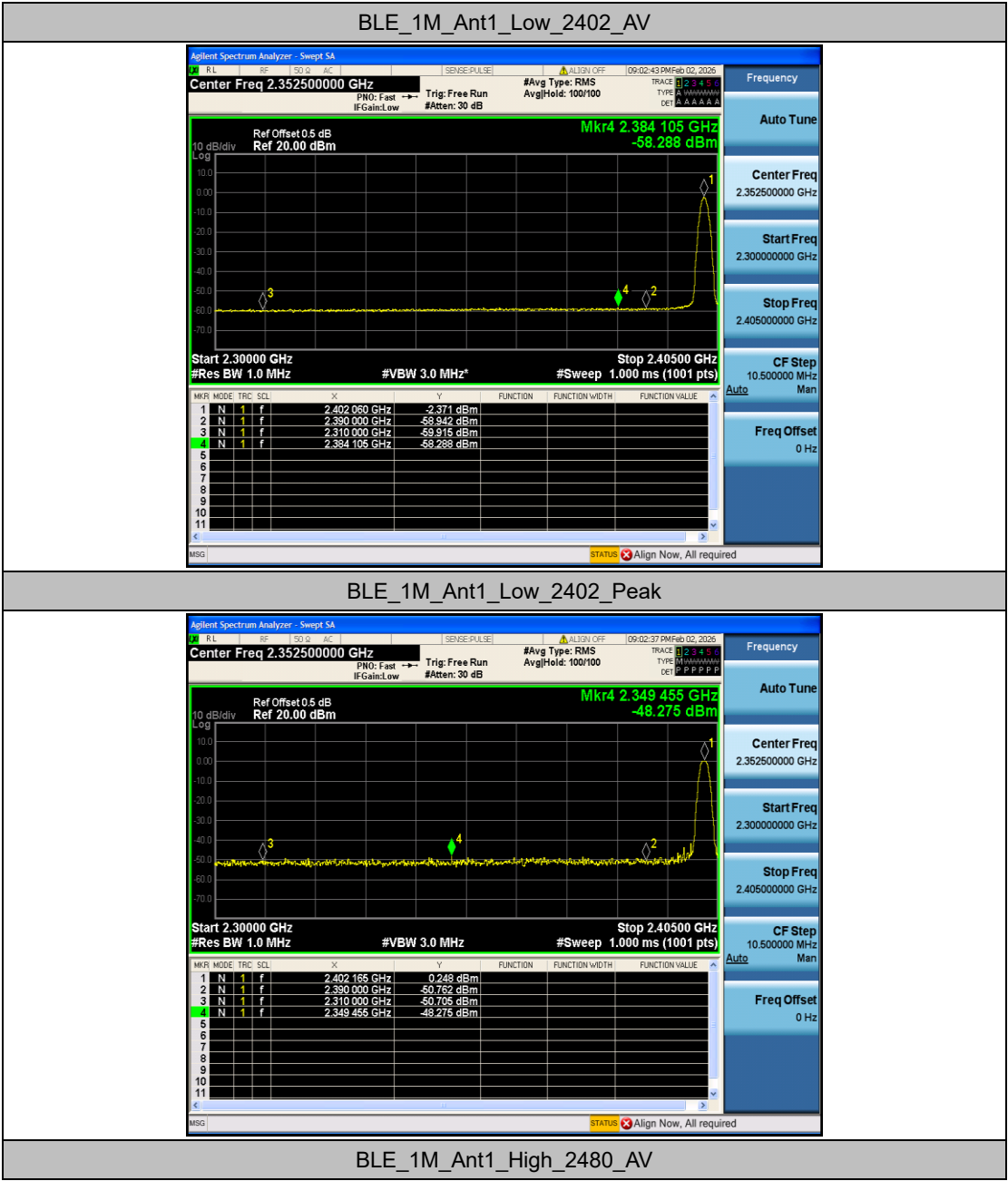
Test Result

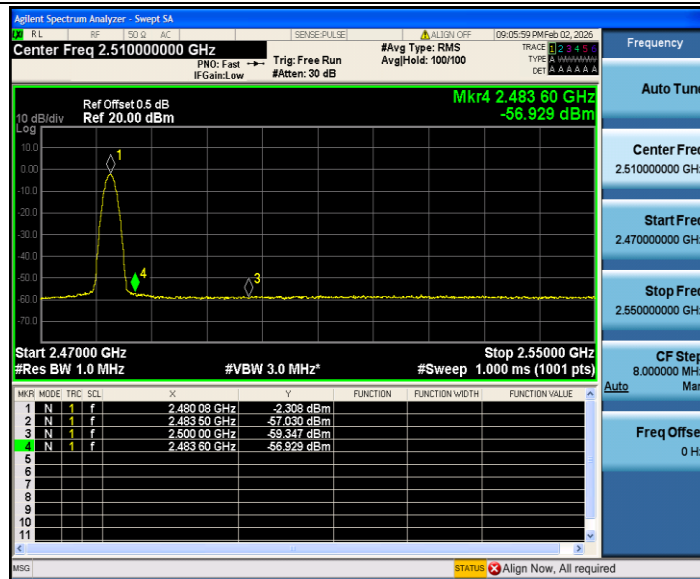
TestMode	Antenna	Channel Name	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-59.92	2.00	1.80	39.08	≤54	PASS
				AV	2384.105	-58.29	2.00	1.80	40.71	≤54	PASS
				AV	2390.000	-58.94	2.00	1.80	40.06	≤54	PASS
				Peak	2310.000	-50.71	2.00	0.00	46.49	≤74	PASS
				Peak	2349.455	-48.27	2.00	0.00	48.93	≤74	PASS
				Peak	2390.000	-50.76	2.00	0.00	46.44	≤74	PASS
		High	2480	AV	2483.500	-57.03	2.00	1.80	41.97	≤54	PASS
				AV	2483.600	-56.93	2.00	1.80	42.07	≤54	PASS
				AV	2500.000	-59.35	2.00	1.80	39.65	≤54	PASS
				Peak	2483.500	-46.51	2.00	0.00	50.69	≤74	PASS
				Peak	2484.480	-42.96	2.00	0.00	54.24	≤74	PASS
				Peak	2500.000	-51.08	2.00	0.00	46.12	≤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

