

Appendix A

RF Test Data for BT(BLE) (Conducted Measurement)

Product Name: Wireless Earphone
Trade Mark: N/A
Test Model: B208
FCC ID: 2AVT2-B208

Environmental Conditions

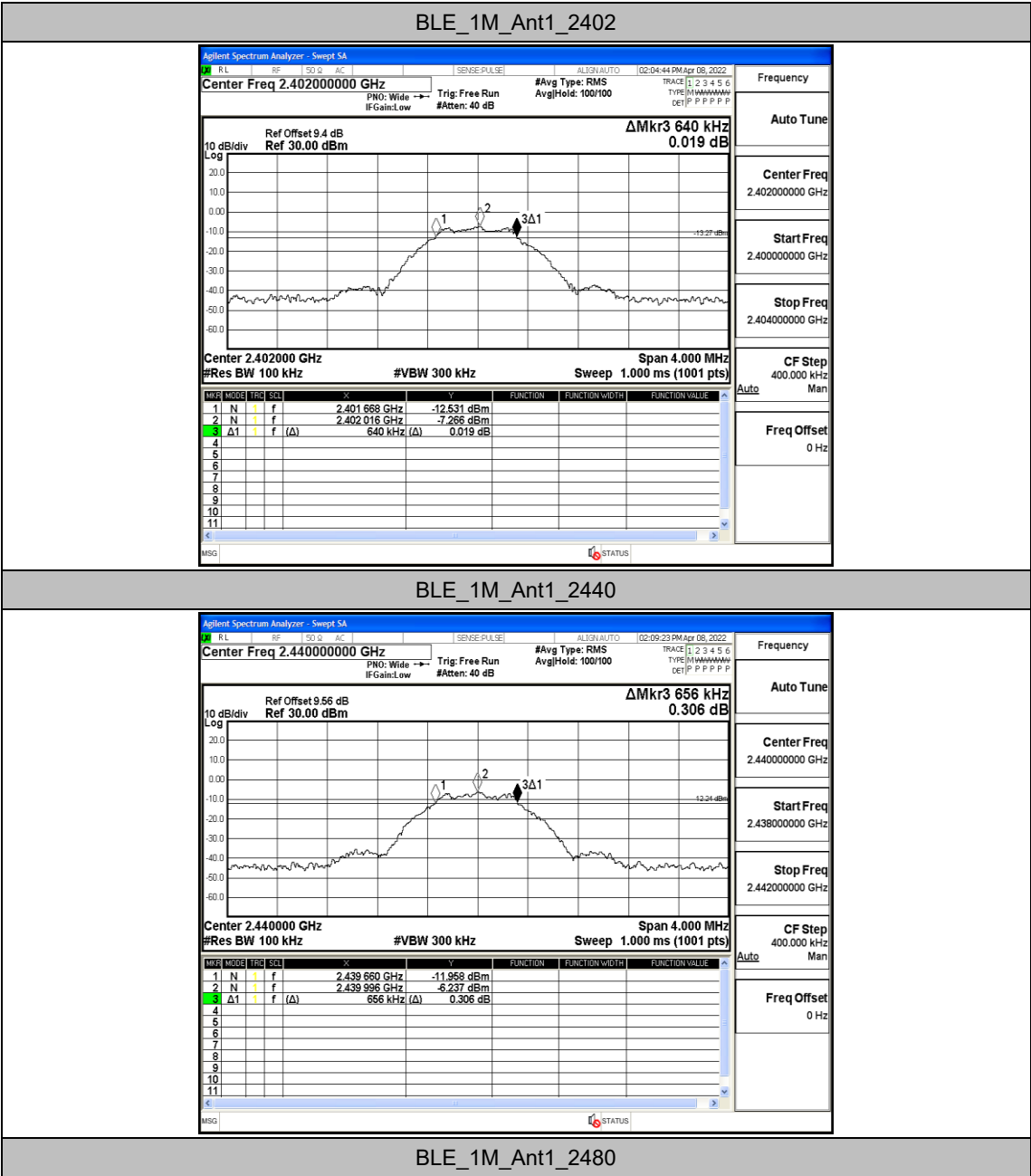
Temperature:	22.8° C
Relative Humidity:	60%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen
NOTE	N/A

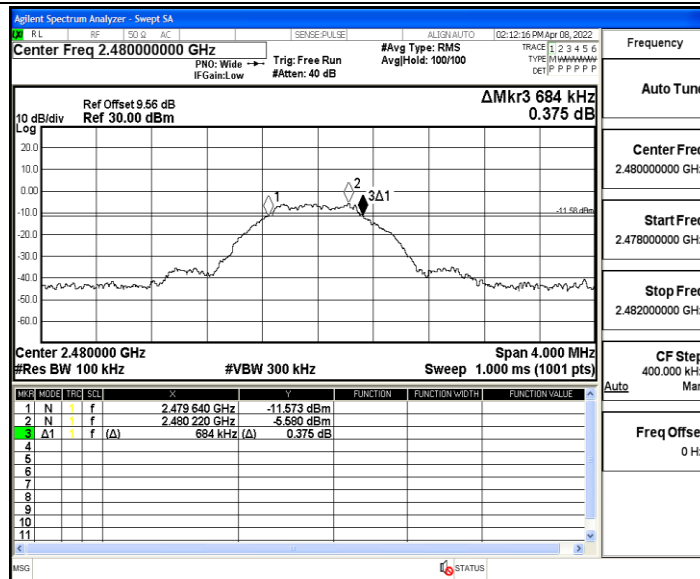
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.640	2401.668	2402.308	0.5	PASS
		2440	0.656	2439.660	2440.316	0.5	PASS
		2480	0.684	2479.640	2480.324	0.5	PASS

Test Graphs



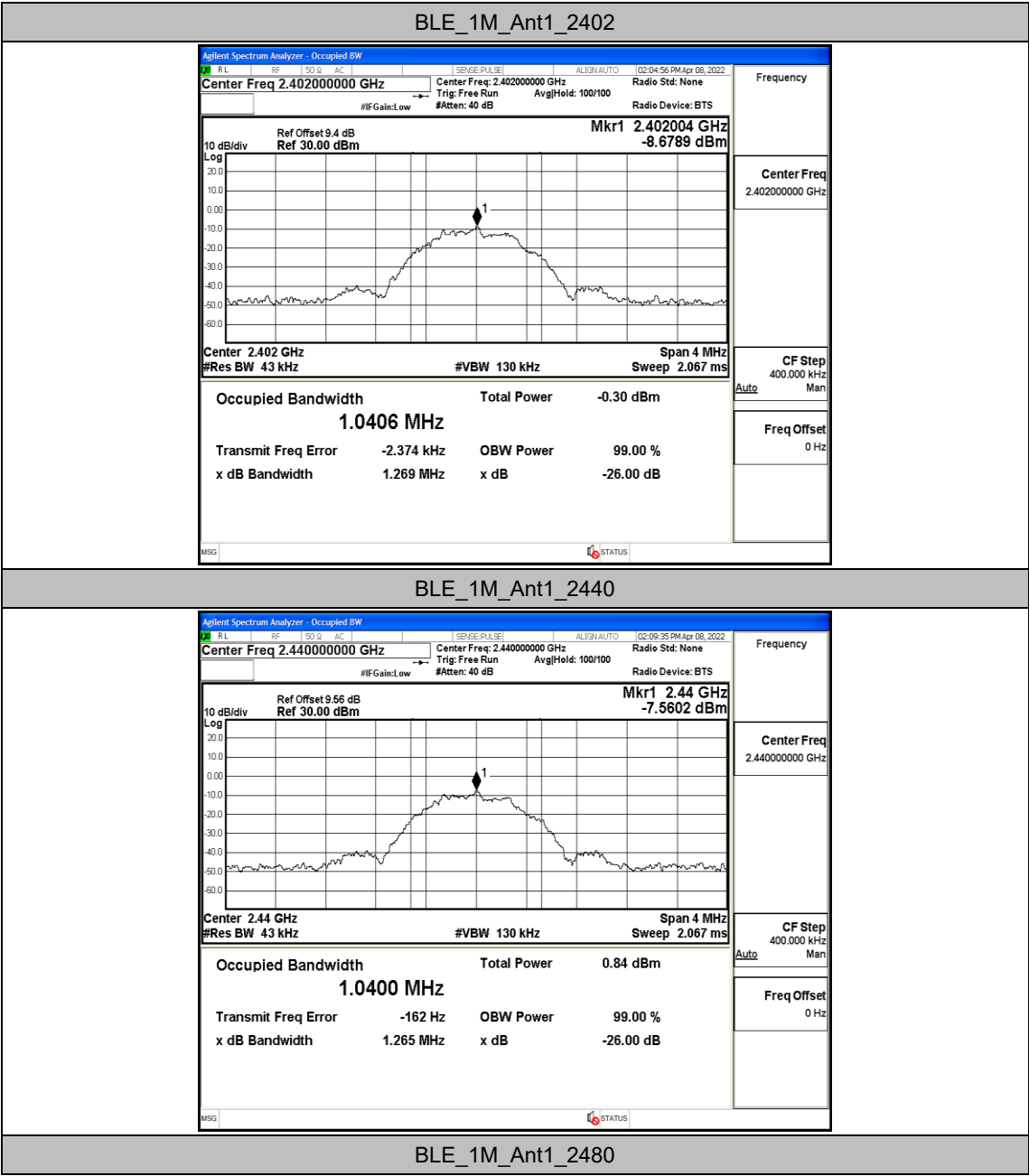


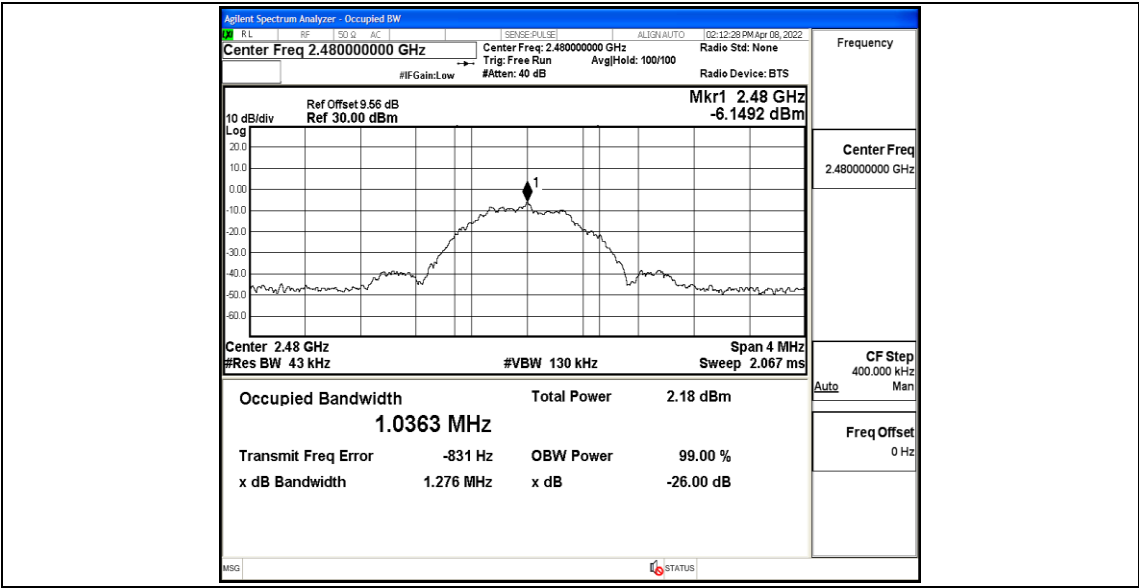
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0406	2401.477	2402.518	---	---
		2440	1.0400	2439.480	2440.520	---	---
		2480	1.0363	2479.481	2480.517	---	---

Test Graphs



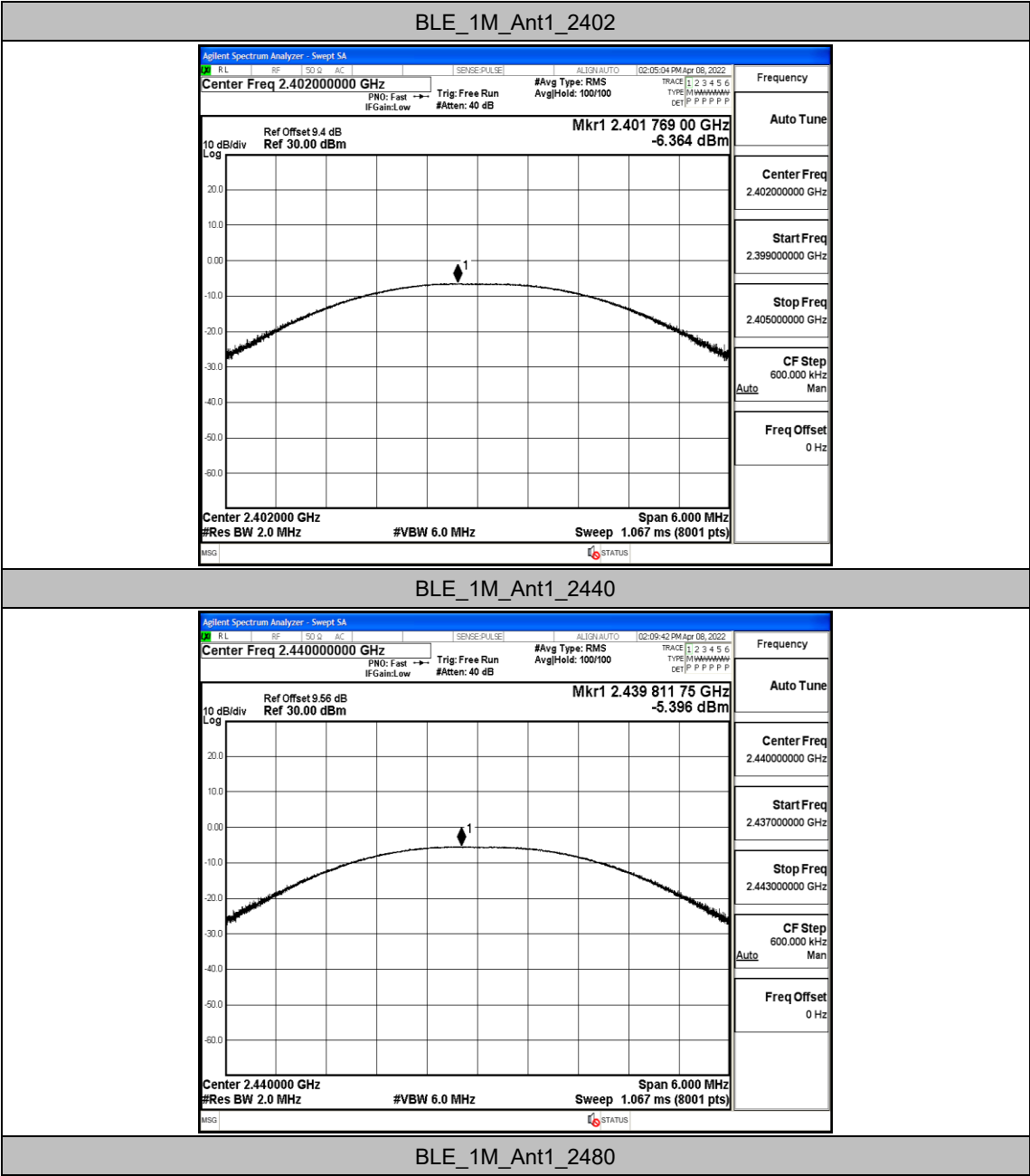


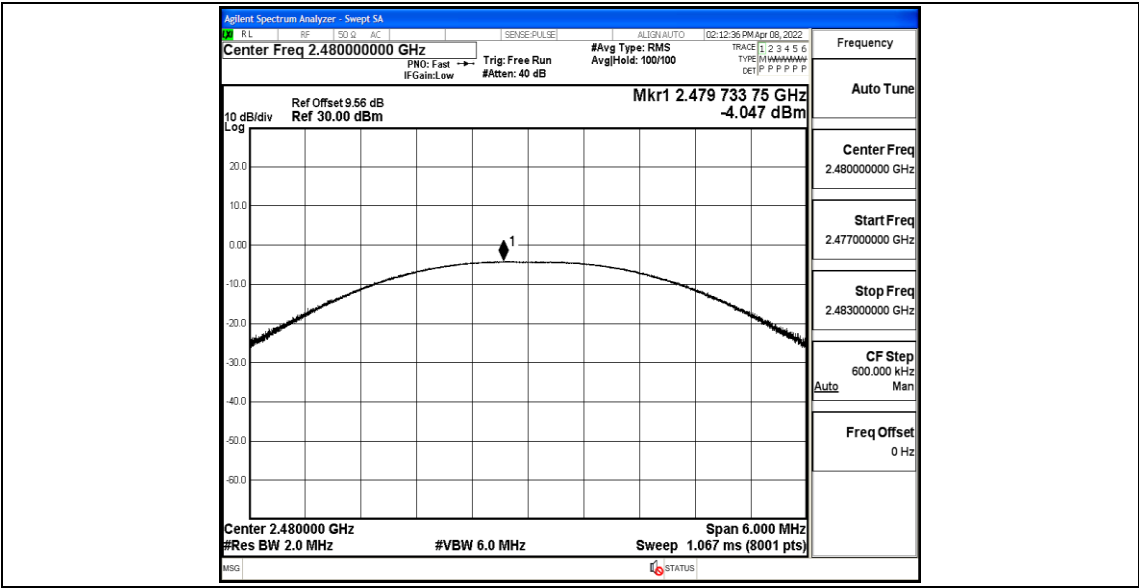
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-6.36	≤30	PASS
		2440	-5.4	≤30	PASS
		2480	-4.05	≤30	PASS

Test Graphs



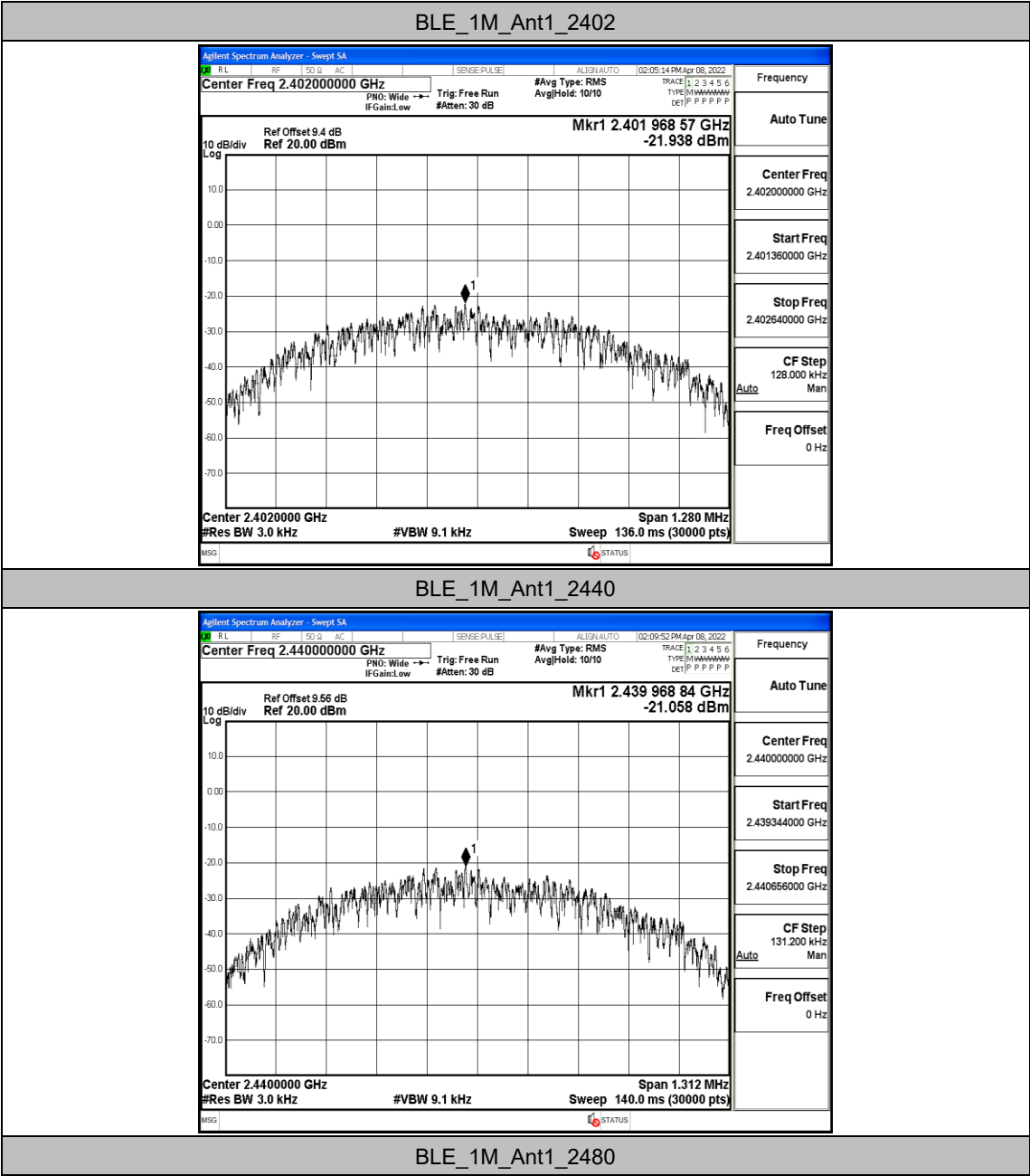


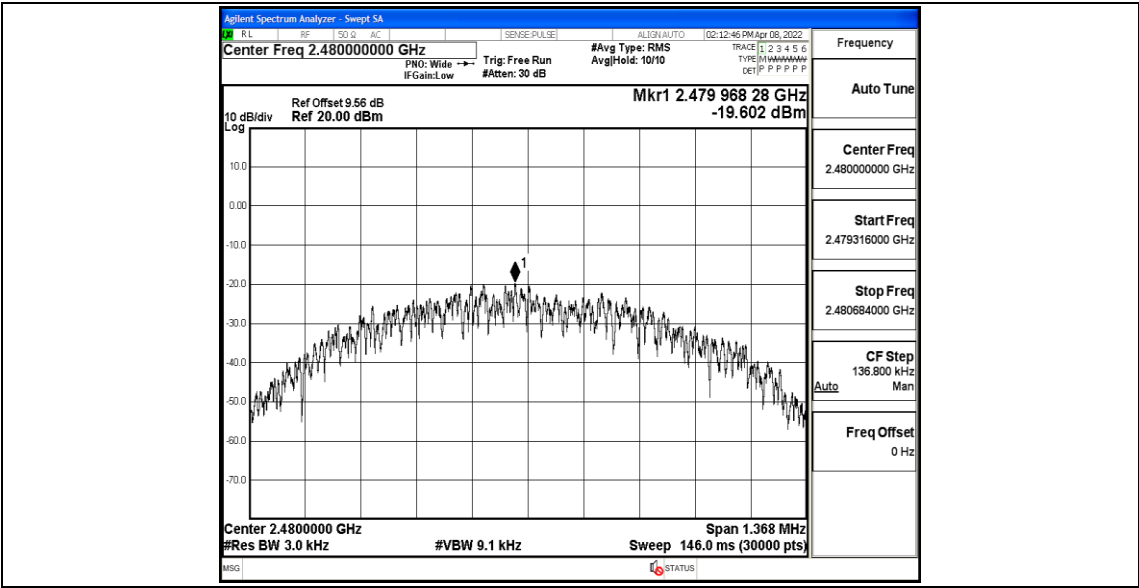
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-21.94	≤8.00	PASS
		2440	-21.06	≤8.00	PASS
		2480	-19.6	≤8.00	PASS

Test Graphs



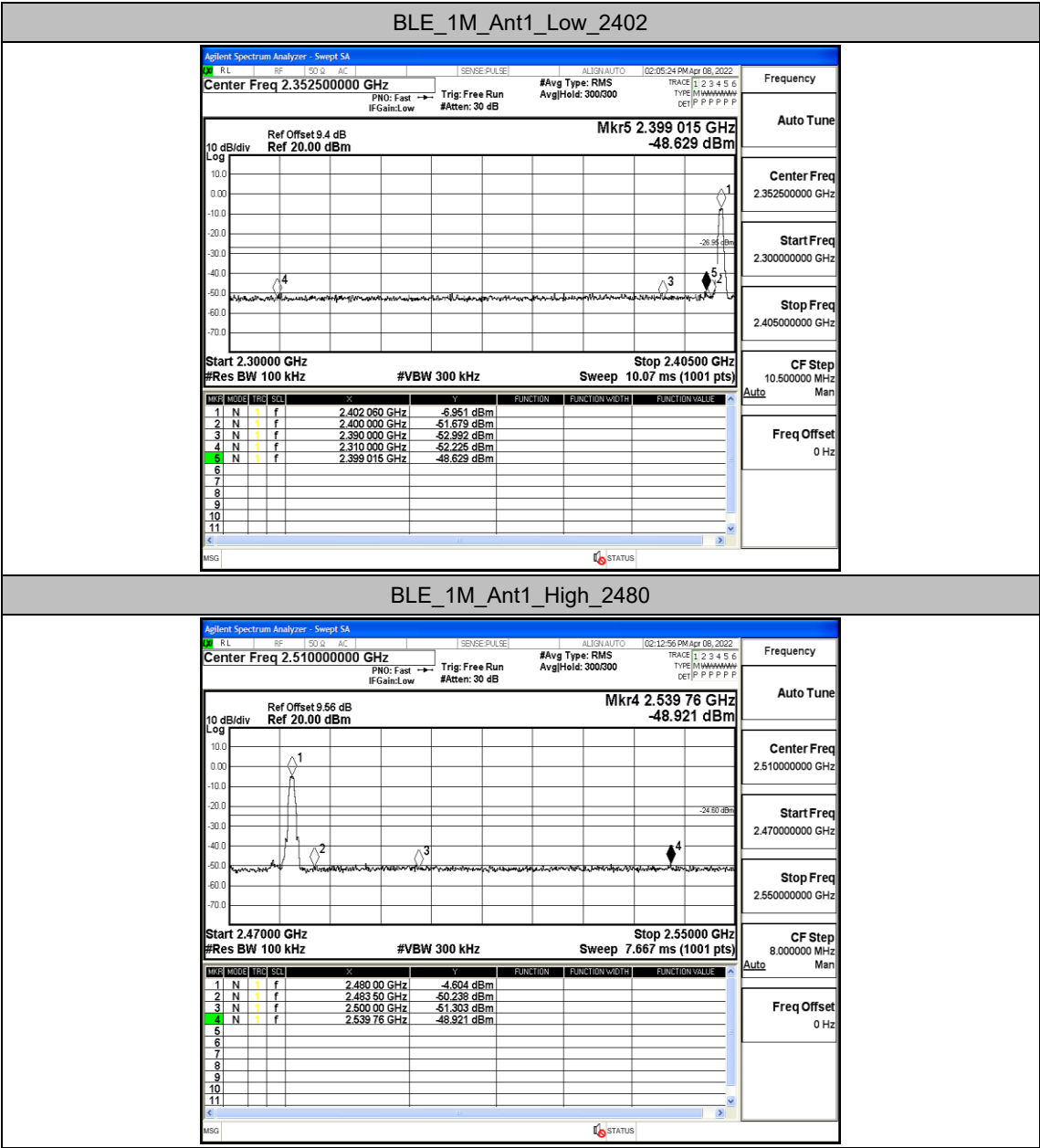


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-6.95	-48.63	≤-26.95	PASS
		High	2480	-4.60	-48.92	≤-24.6	PASS

Test Graphs

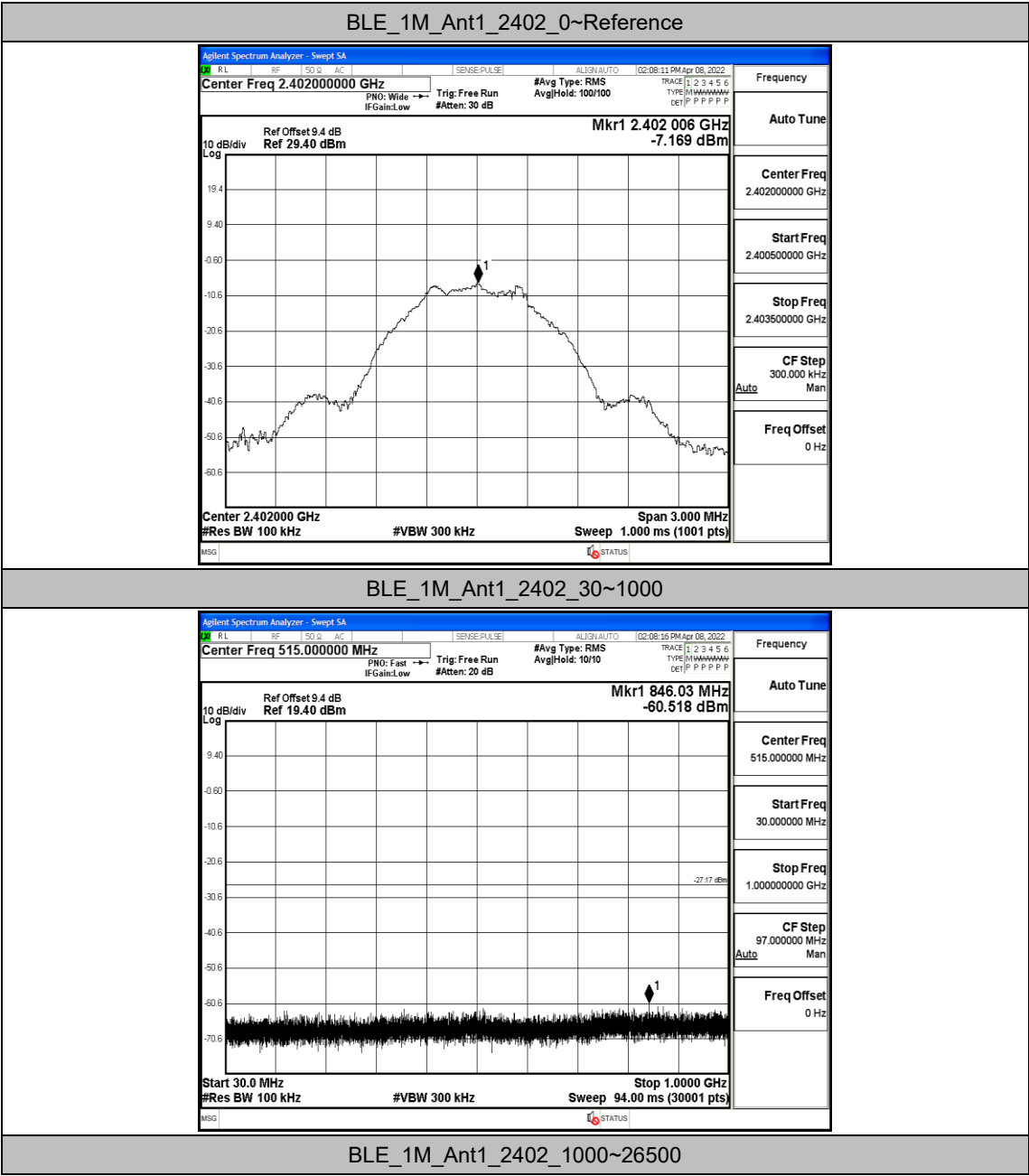


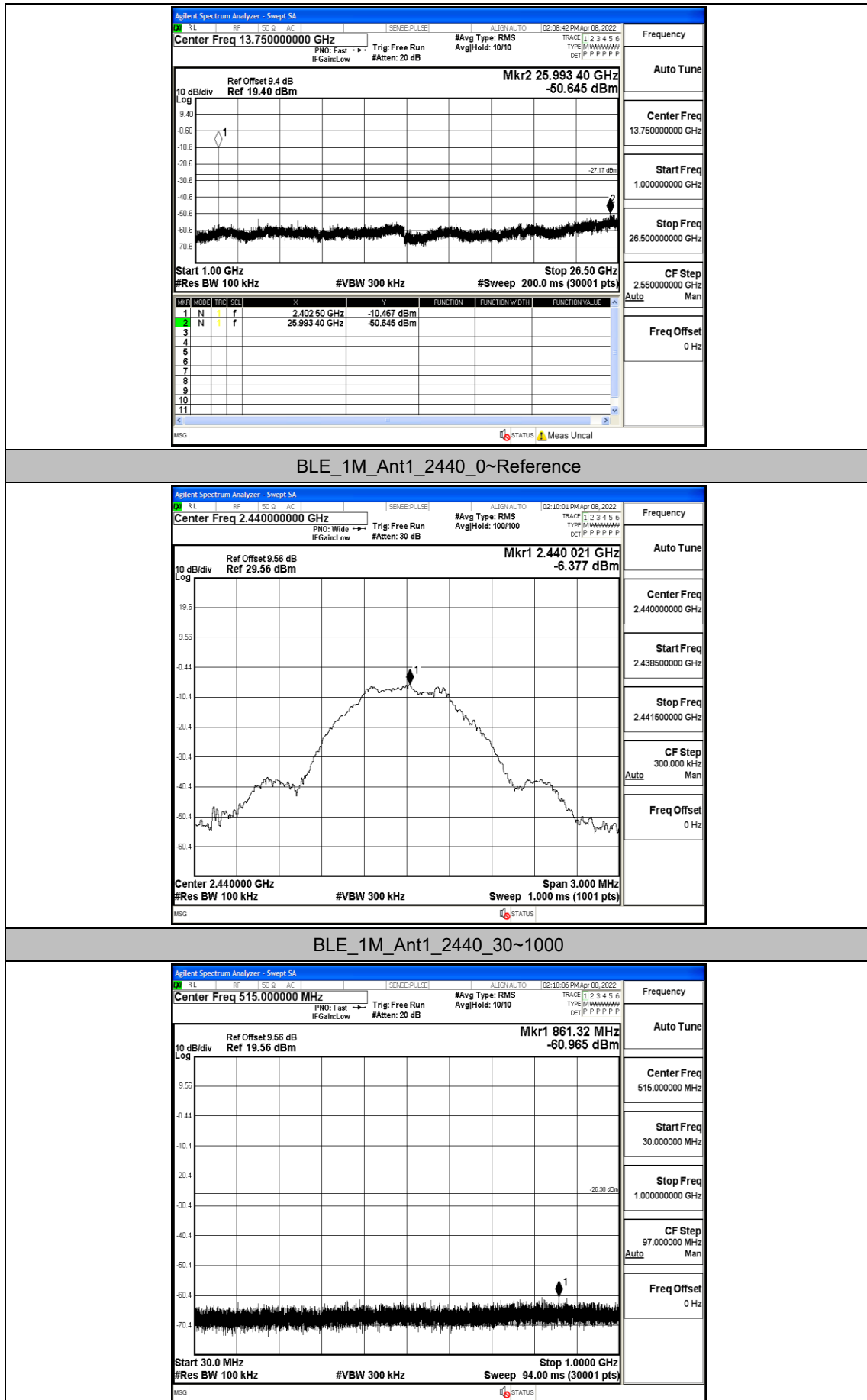
Appendix F: Conducted Spurious Emission

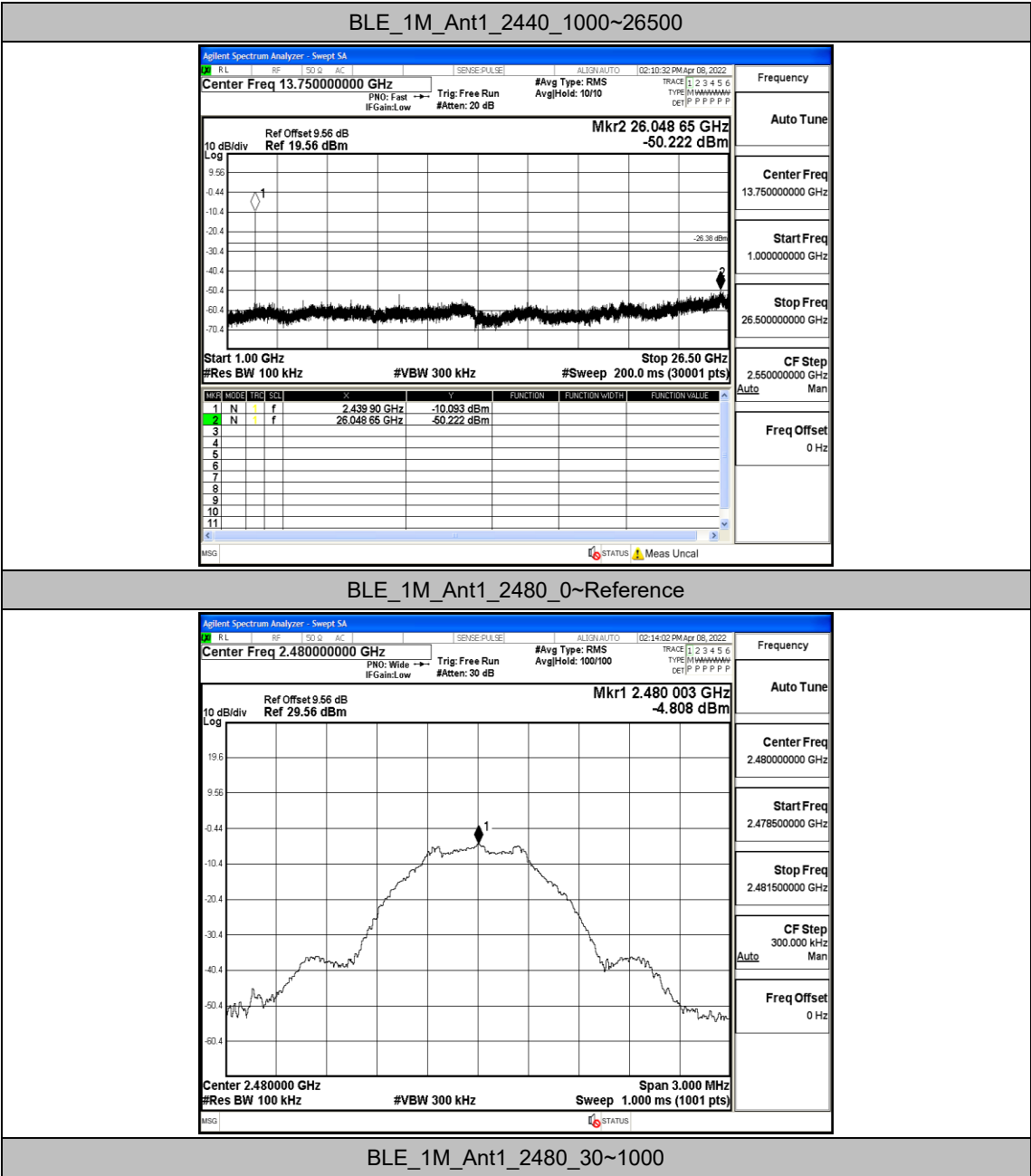
Test Result

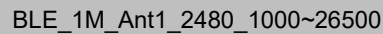
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-7.17	-7.17	---	PASS
			30~1000	-7.17	-60.52	≤-27.17	PASS
			1000~26500	-7.17	-50.65	≤-27.17	PASS
		2440	Reference	-6.38	-6.38	---	PASS
			30~1000	-6.38	-60.97	≤-26.38	PASS
			1000~26500	-6.38	-50.22	≤-26.38	PASS
		2480	Reference	-4.81	-4.81	---	PASS
			30~1000	-4.81	-61.25	≤-24.81	PASS
			1000~26500	-4.81	-50.52	≤-24.81	PASS

Test Graphs







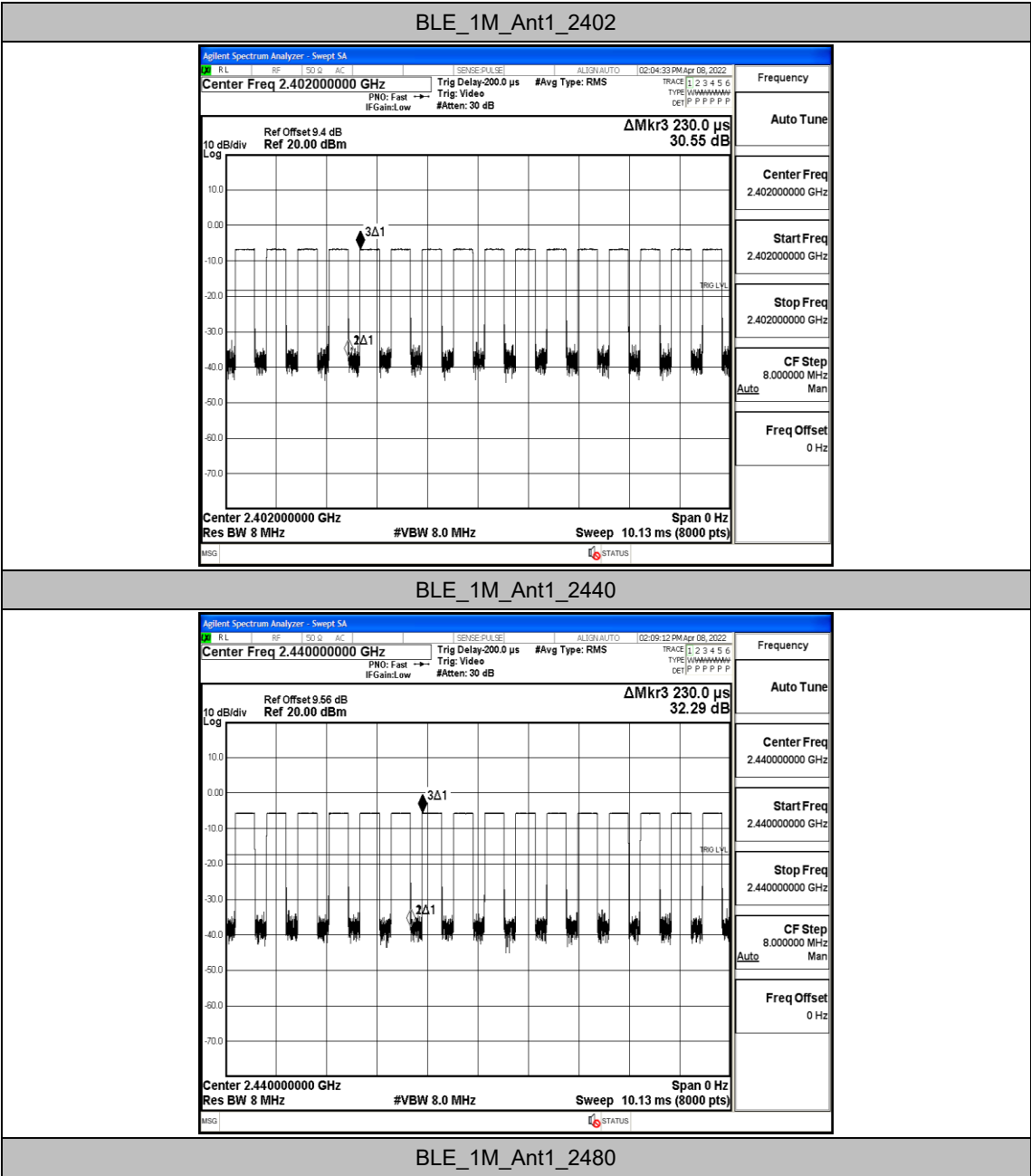


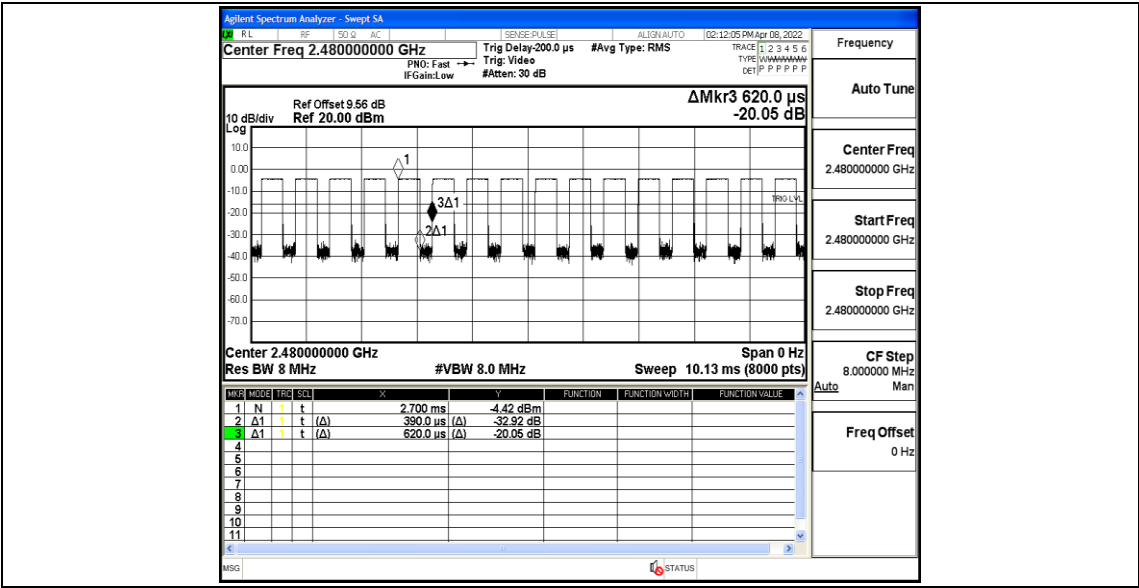
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T
BLE_1M	Ant1	2402	0.00	0.23	100	∞
		2440	0.00	0.23	100	∞
		2480	0.39	0.62	62.90	2.56

Test Graphs





Appendix H: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.53	≤-41.20	PASS
				AV	2381.270	-48.83	≤-41.20	PASS
				AV	2390.000	-49.02	≤-41.20	PASS
				Peak	2310.000	-44.54	≤-21.20	PASS
				Peak	2373.710	-40.03	≤-21.20	PASS
				Peak	2390.000	-45.61	≤-21.20	PASS
		High	2480	AV	2483.500	-47.39	≤-41.20	PASS
				AV	2499.680	-46.23	≤-41.20	PASS
				AV	2500.000	-46.69	≤-41.20	PASS
				Peak	2483.500	-40.64	≤-21.20	PASS
				Peak	2496.480	-38.2	≤-21.20	PASS
				Peak	2500.000	-39.88	≤-21.20	PASS

Note:

1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
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

