

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

Product Name: Remote control

Trade Mark: N/A

Test Model: L13

FCC ID: 2ASXW-L13

Environmental Conditions

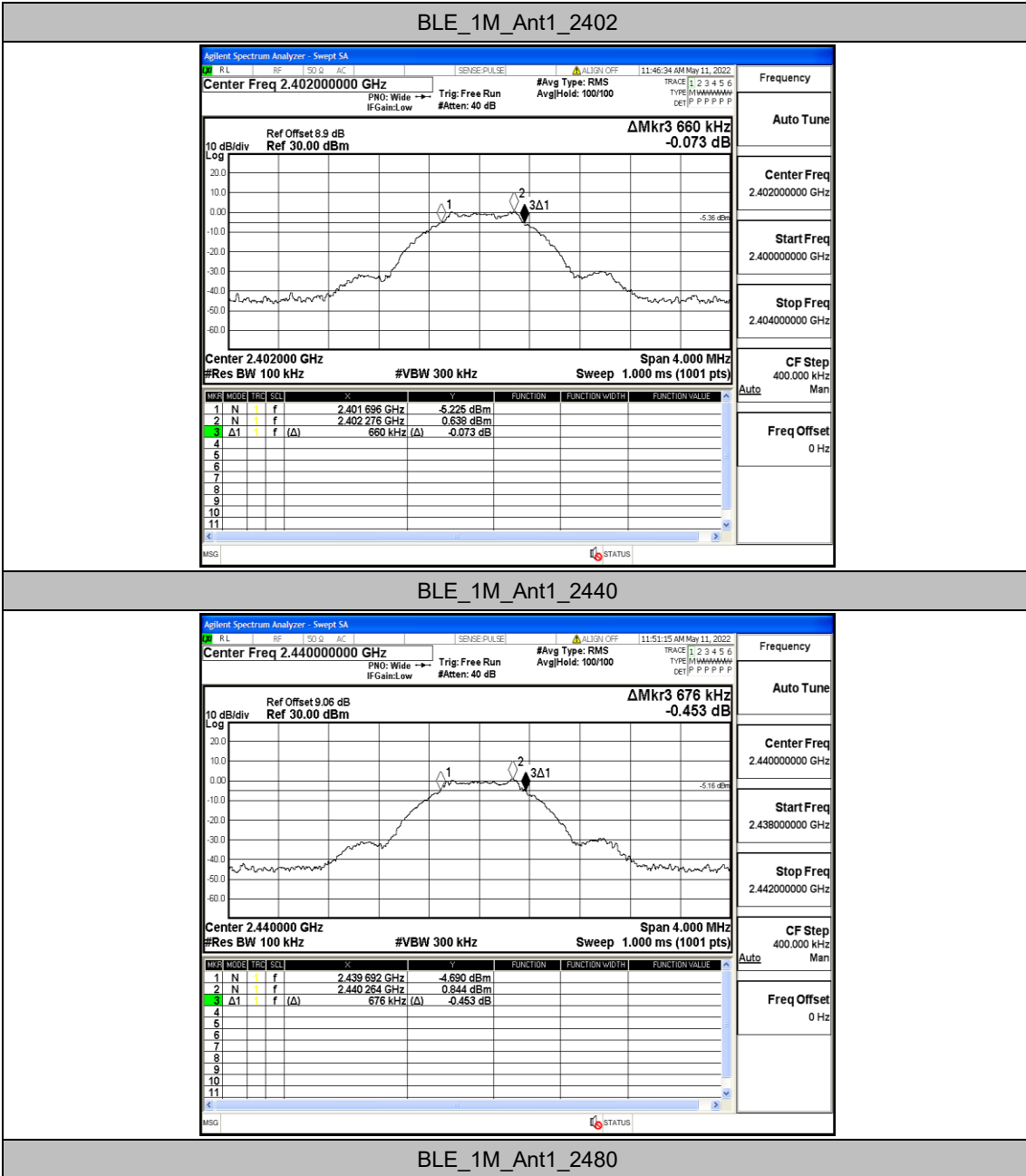
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

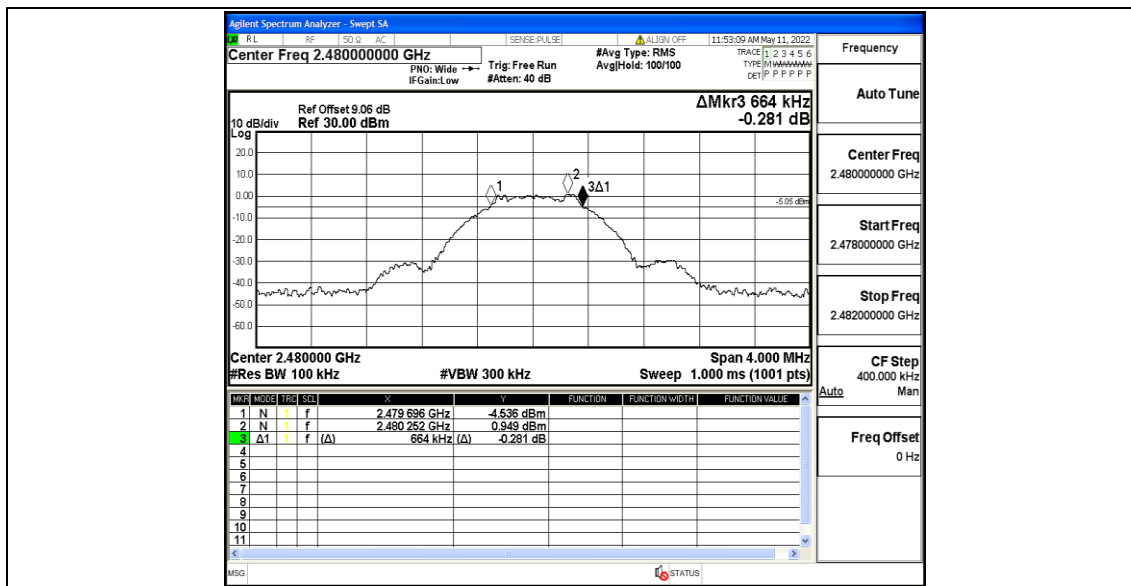
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.696	2402.356	0.5	PASS
		2440	0.676	2439.692	2440.368	0.5	PASS
		2480	0.664	2479.696	2480.360	0.5	PASS

Test Graphs



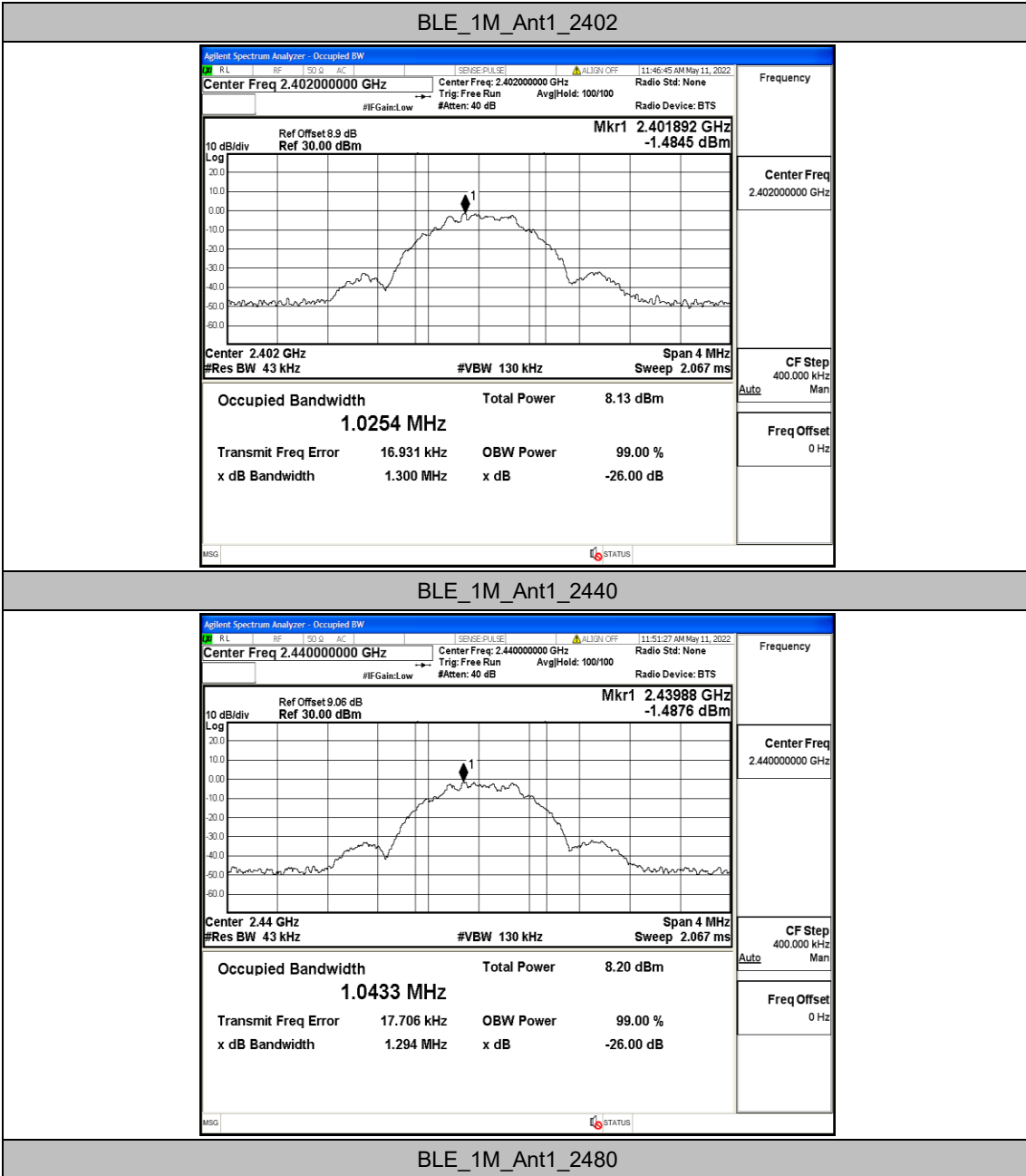


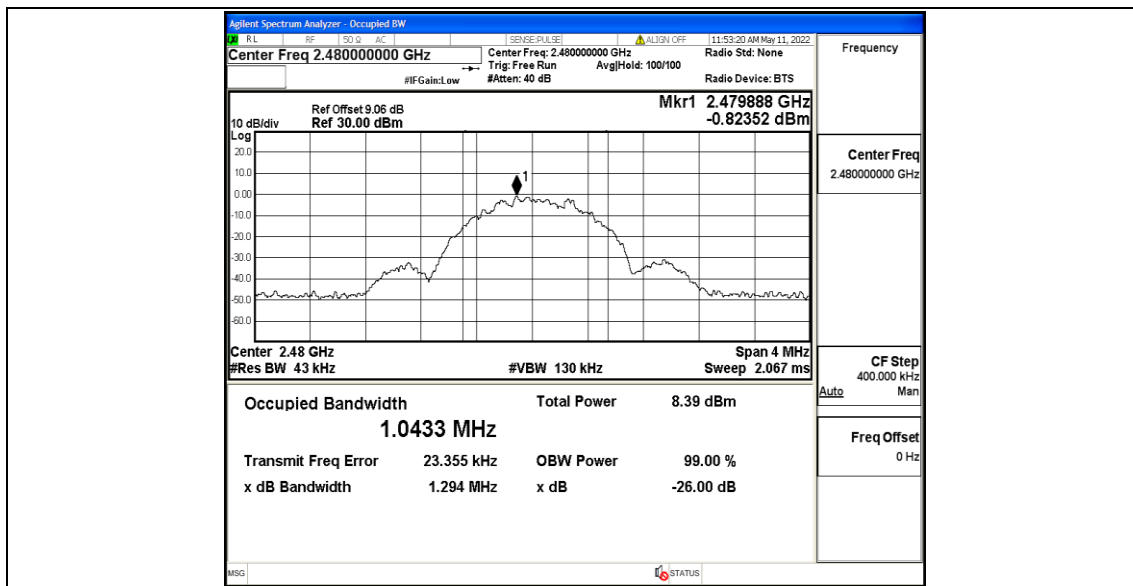
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0254	2401.504	2402.530	---	---
		2440	1.0433	2439.496	2440.539	---	---
		2480	1.0433	2479.502	2480.545	---	---

Test Graphs



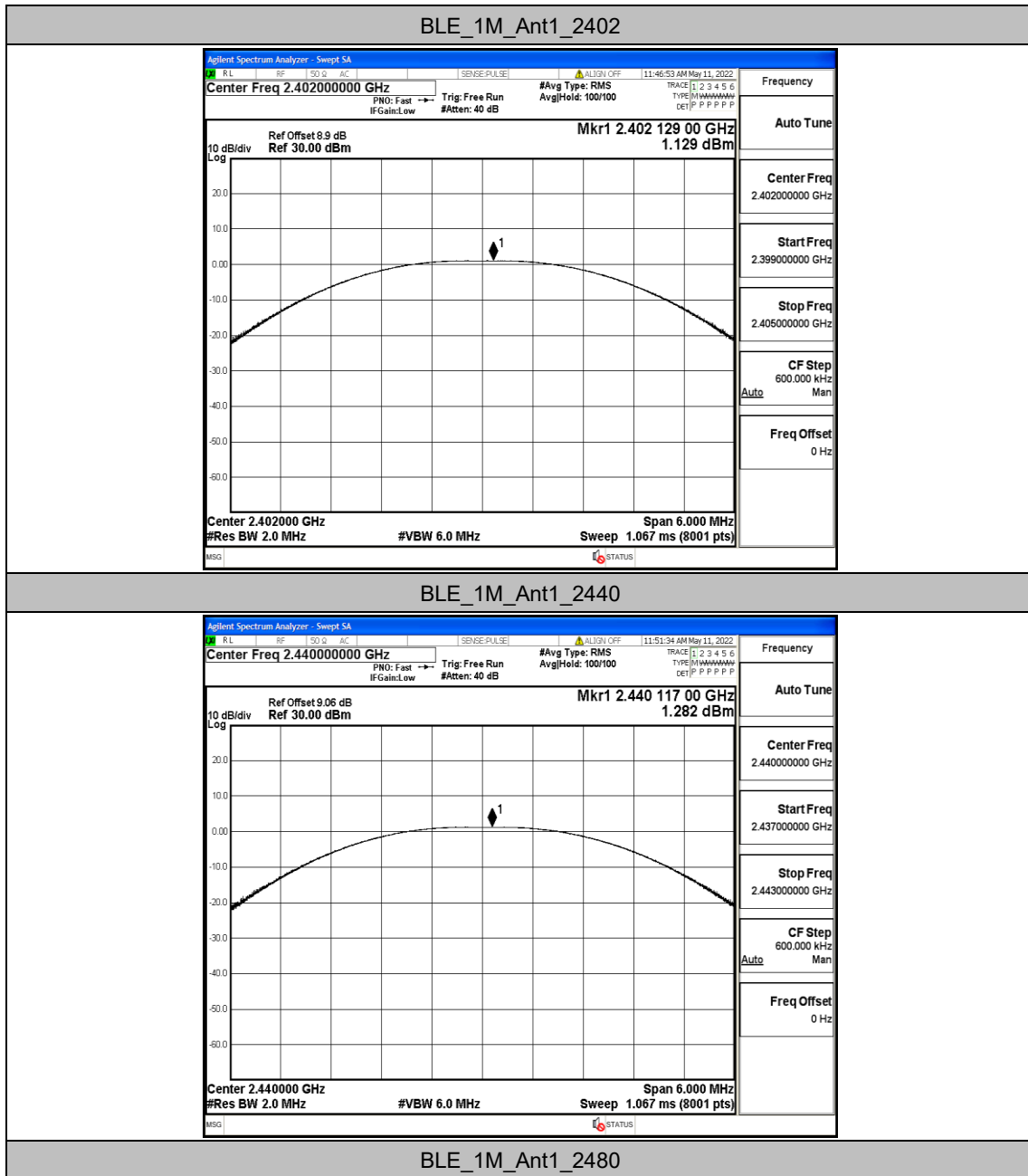


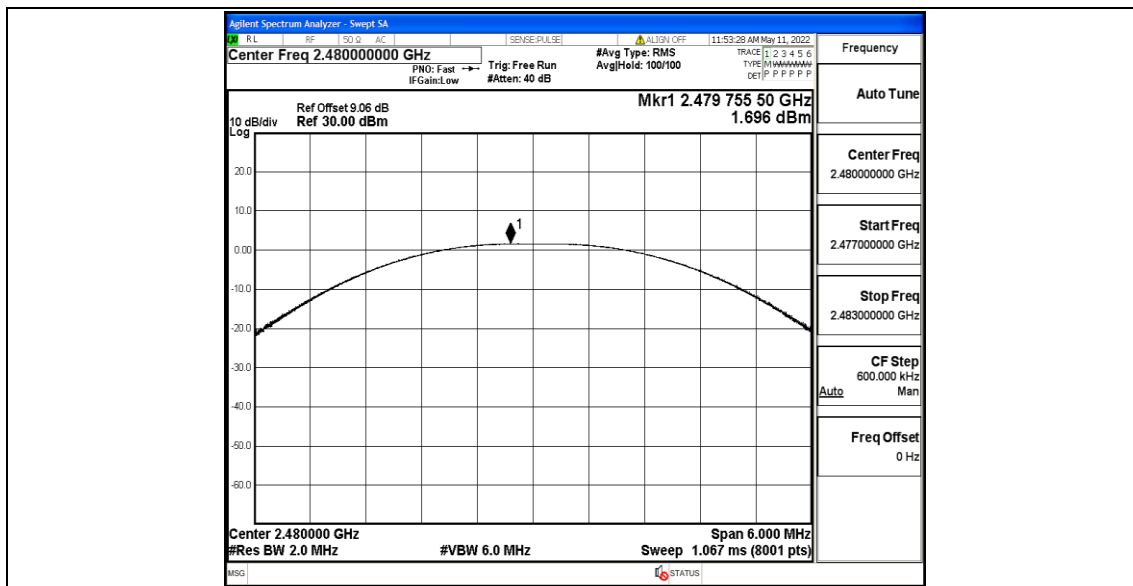
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.13	≤30	PASS
		2440	1.28	≤30	PASS
		2480	1.7	≤30	PASS

Test Graphs



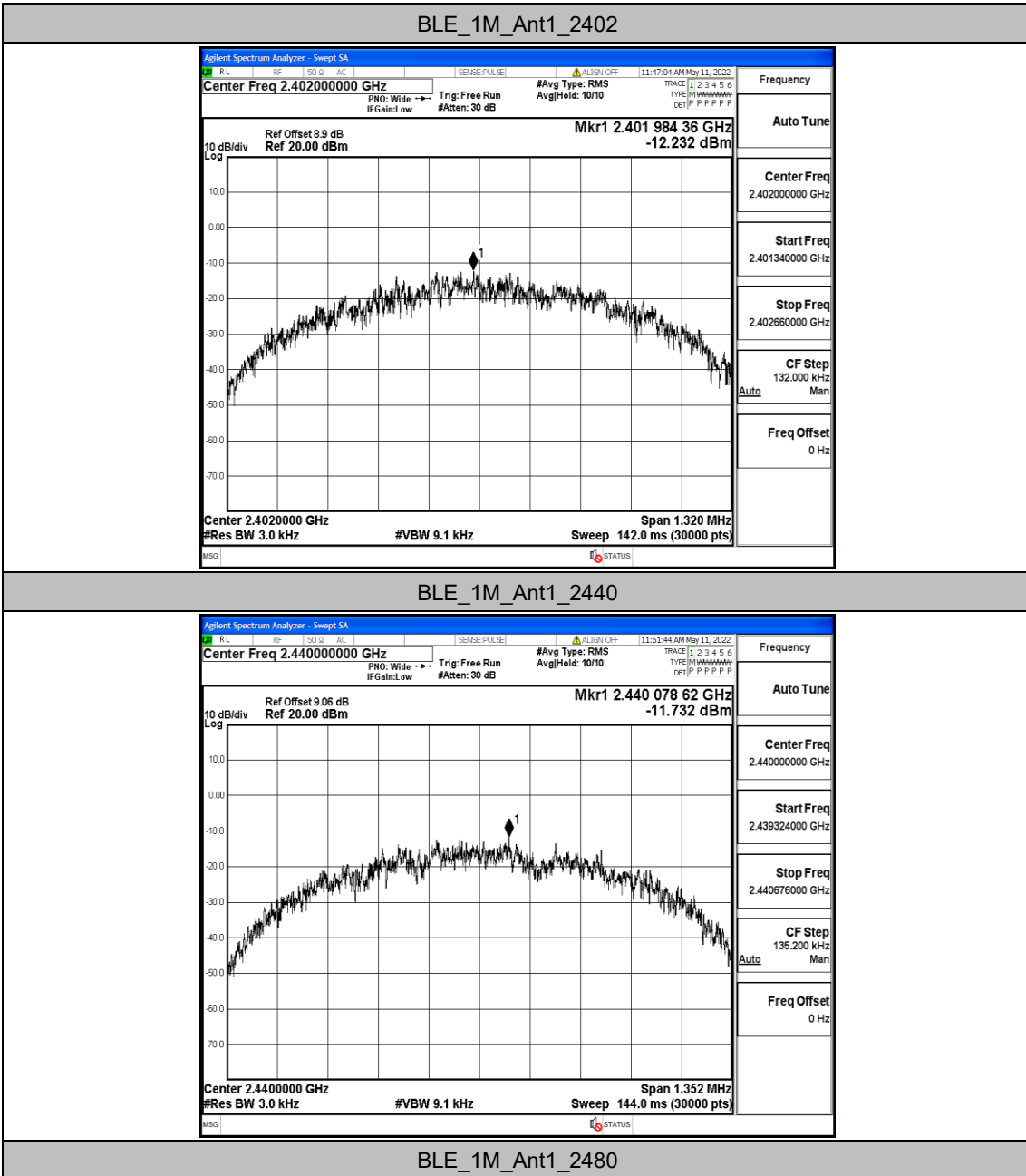


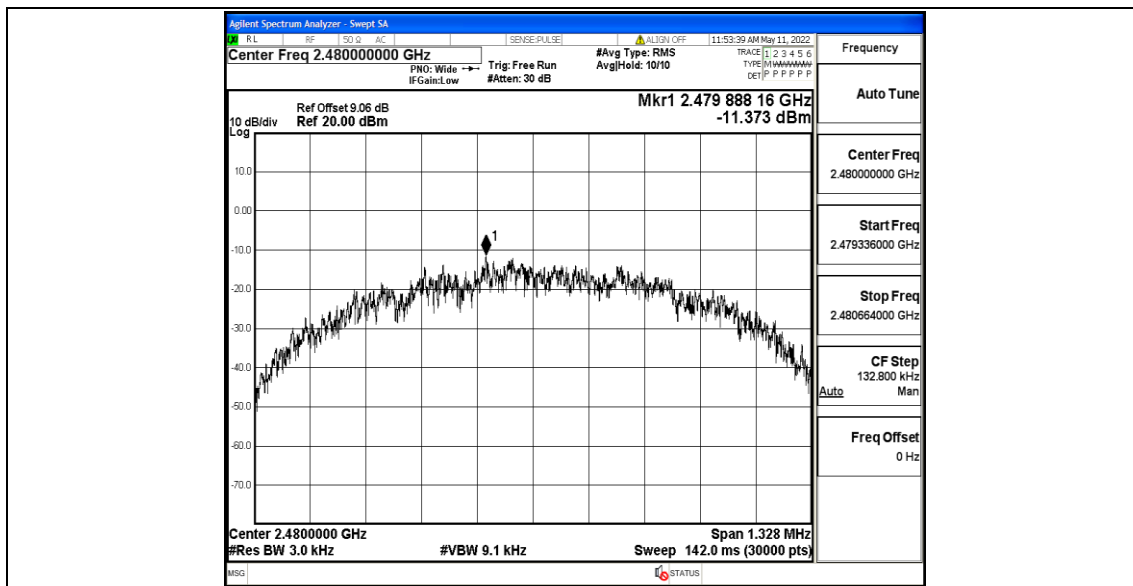
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.23	≤8.00	PASS
		2440	-11.73	≤8.00	PASS
		2480	-11.37	≤8.00	PASS

Test Graphs



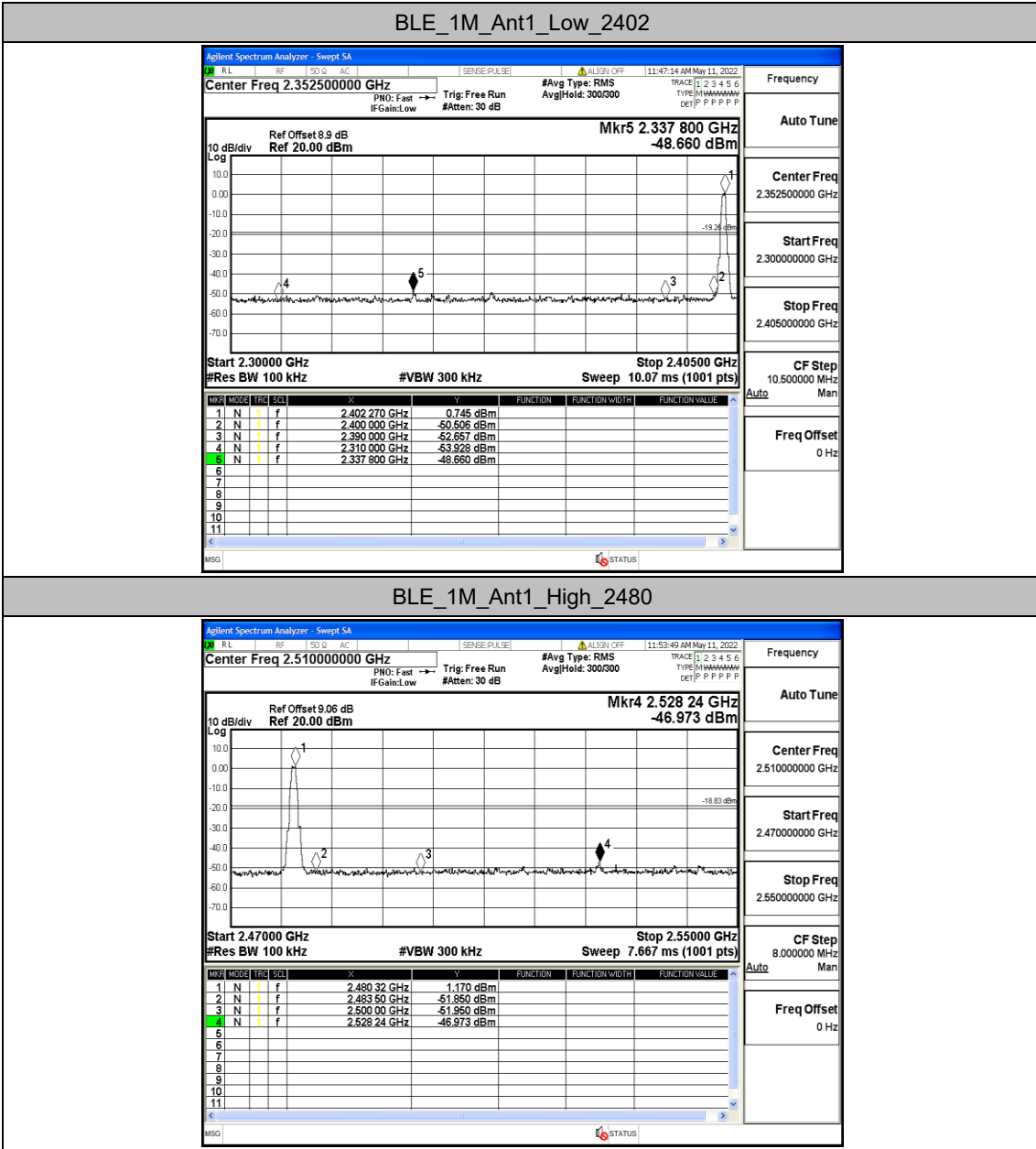


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.75	-48.66	≤-19.26	PASS
		High	2480	1.17	-46.97	≤-18.83	PASS

Test Graphs

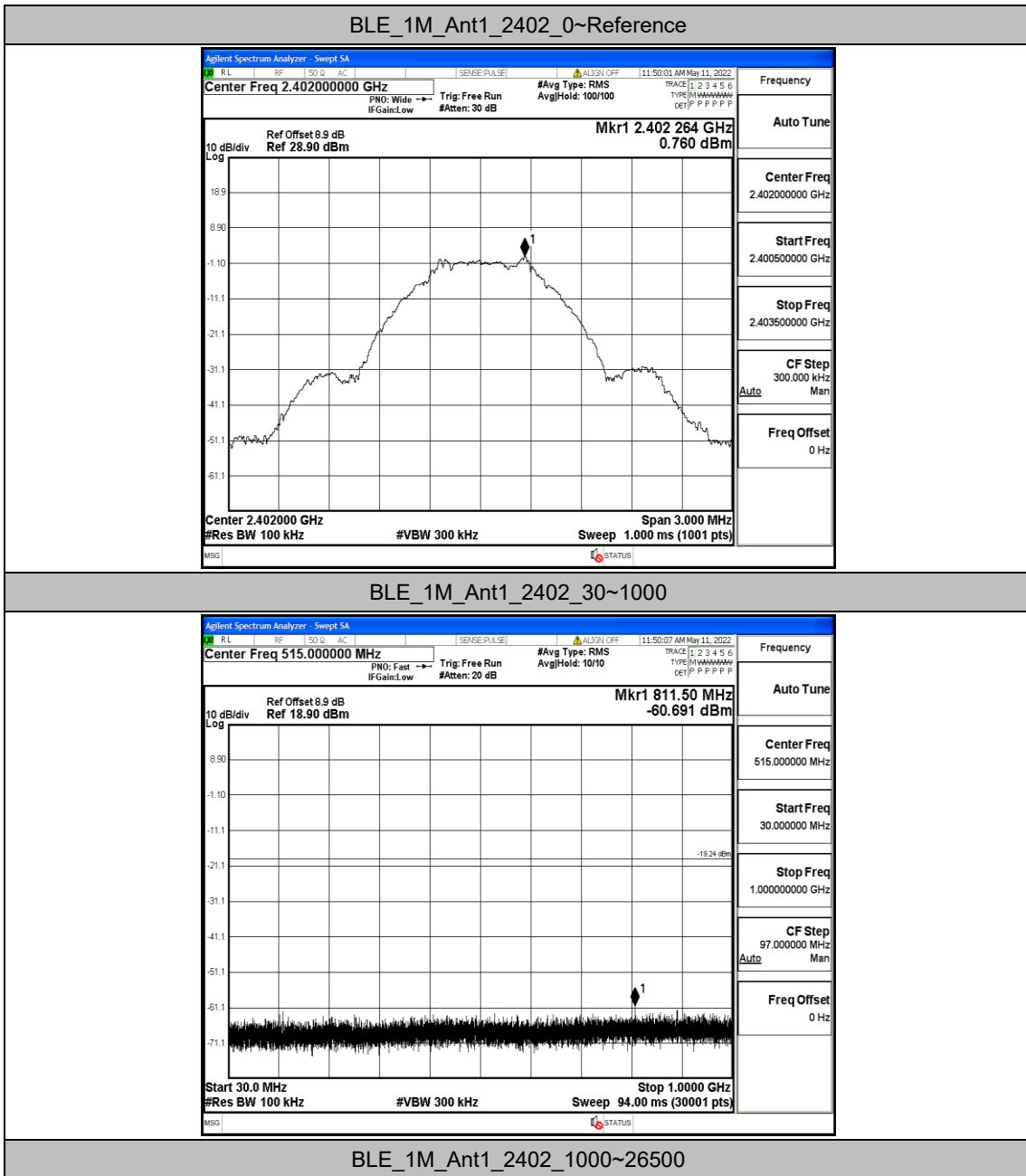

BLE_1M_Ant1_High_2480

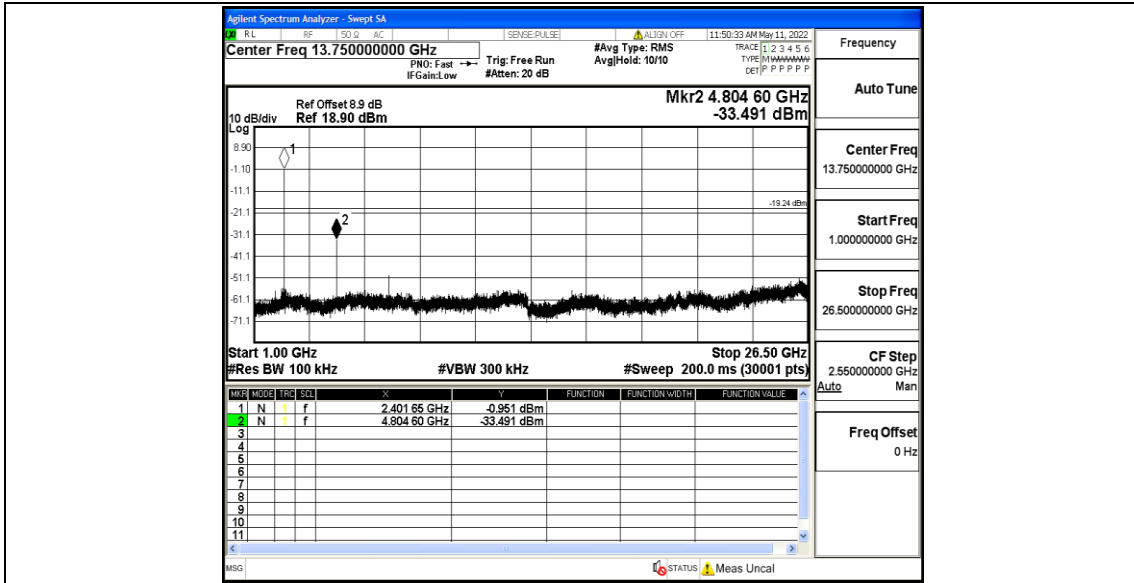
Appendix F: Conducted Spurious Emission

Test Result

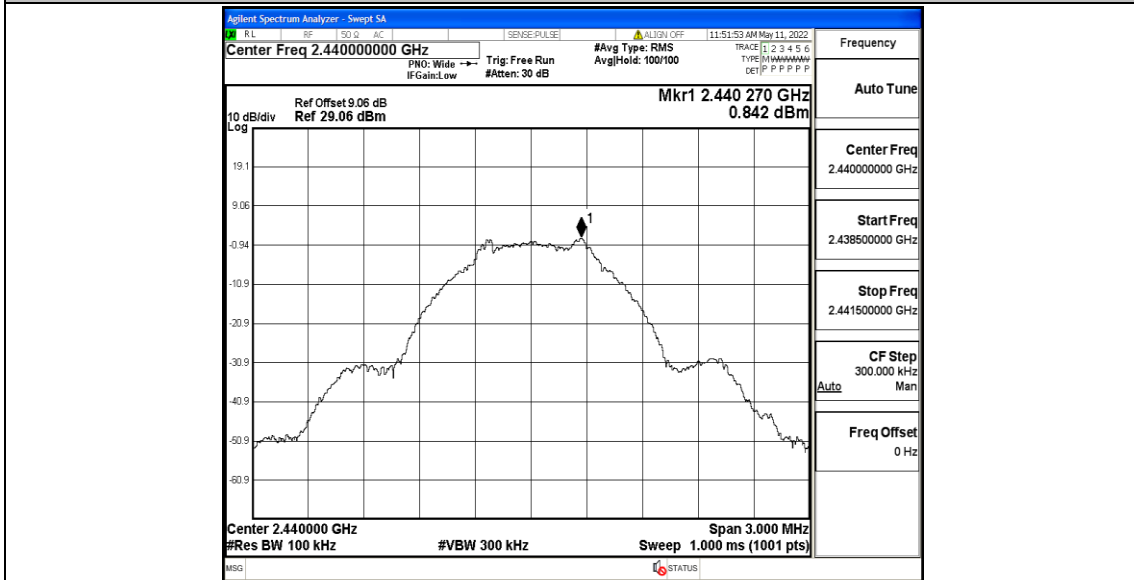
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.76	0.76	---	PASS
			30~1000	0.76	-60.69	≤-19.24	PASS
			1000~26500	0.76	-33.49	≤-19.24	PASS
		2440	Reference	0.84	0.84	---	PASS
			30~1000	0.84	-60.95	≤-19.16	PASS
			1000~26500	0.84	-34.09	≤-19.16	PASS
		2480	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-61.42	≤-18.82	PASS
			1000~26500	1.18	-36.04	≤-18.82	PASS

Test Graphs

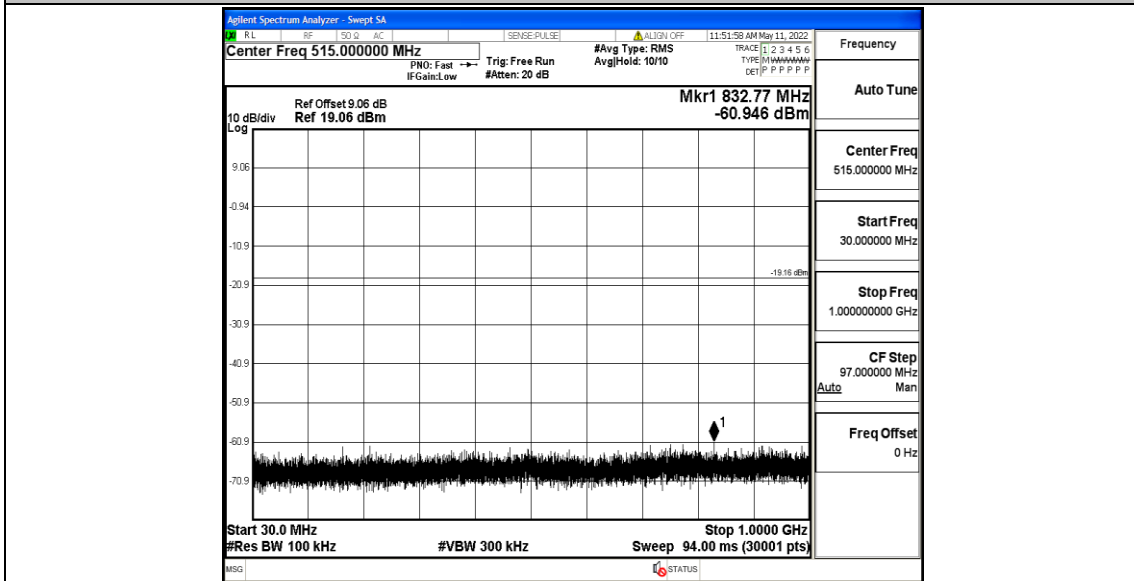




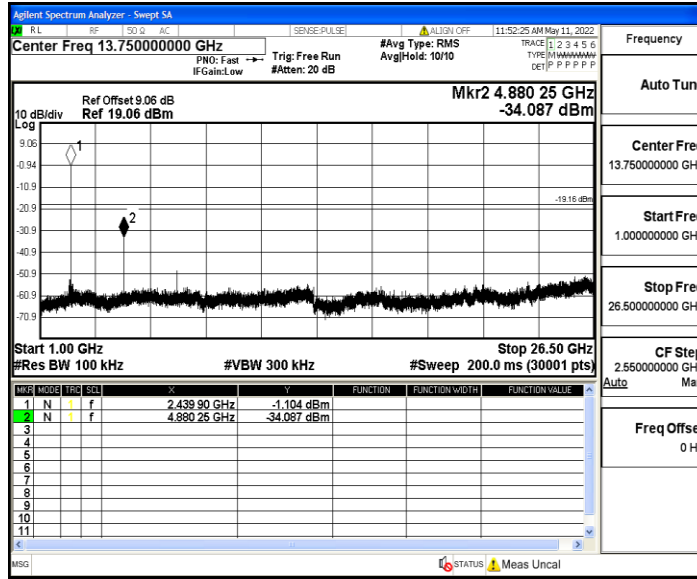
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

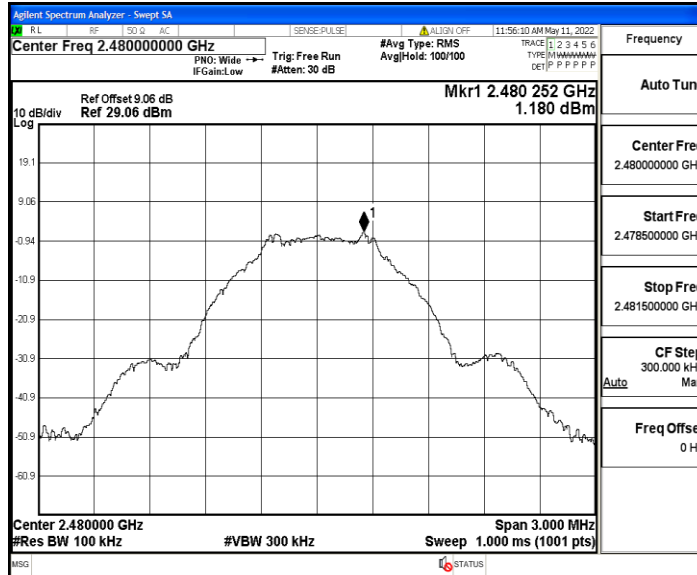


BLE_1M_Ant1_2440_1000~26500



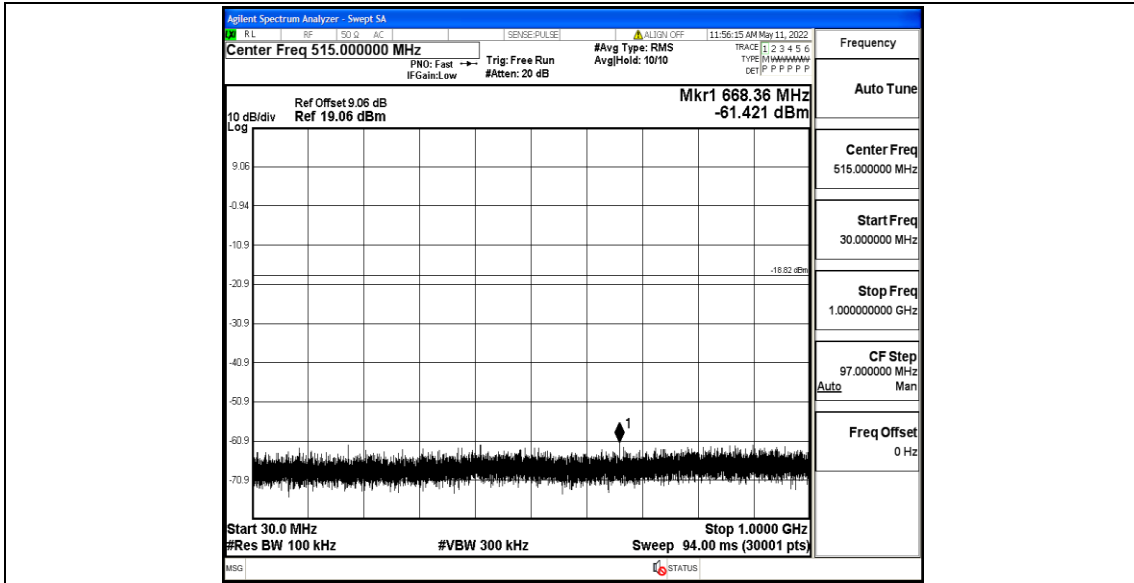
Frequency	Auto Tune
Center Freq	13.750000000 GHz
Start Freq	1.000000000 GHz
Stop Freq	26.500000000 GHz
CF Step	2.560000000 GHz
Auto	Man
Freq Offset	0 Hz

BLE_1M_Ant1_2480_0~Reference

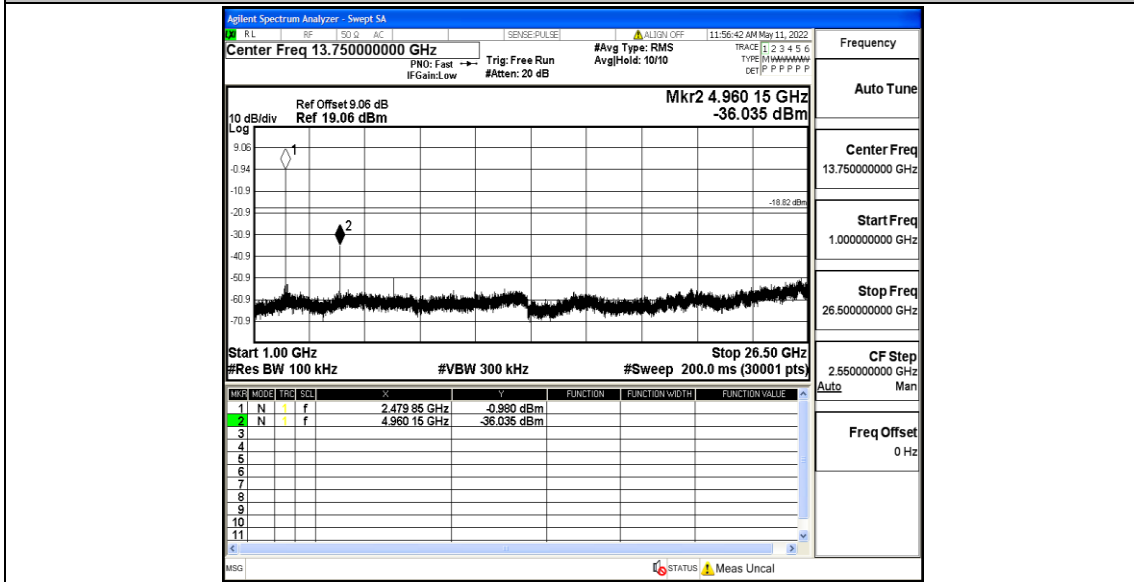


Frequency	Auto Tune
Center Freq	2.480000000 GHz
Start Freq	2.478500000 GHz
Stop Freq	2.481500000 GHz
CF Step	300.000 kHz
Auto	Man
Freq Offset	0 Hz

BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

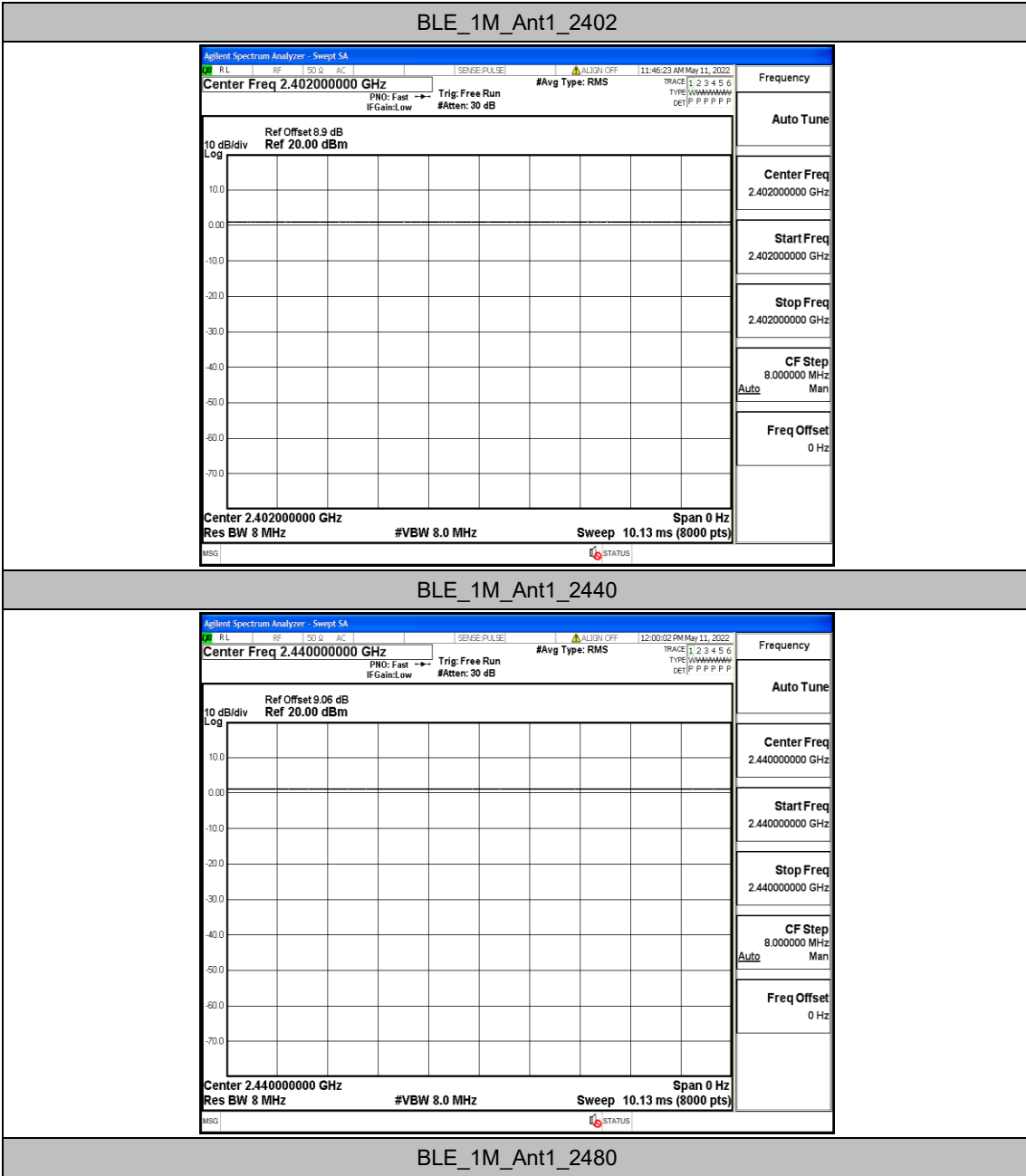


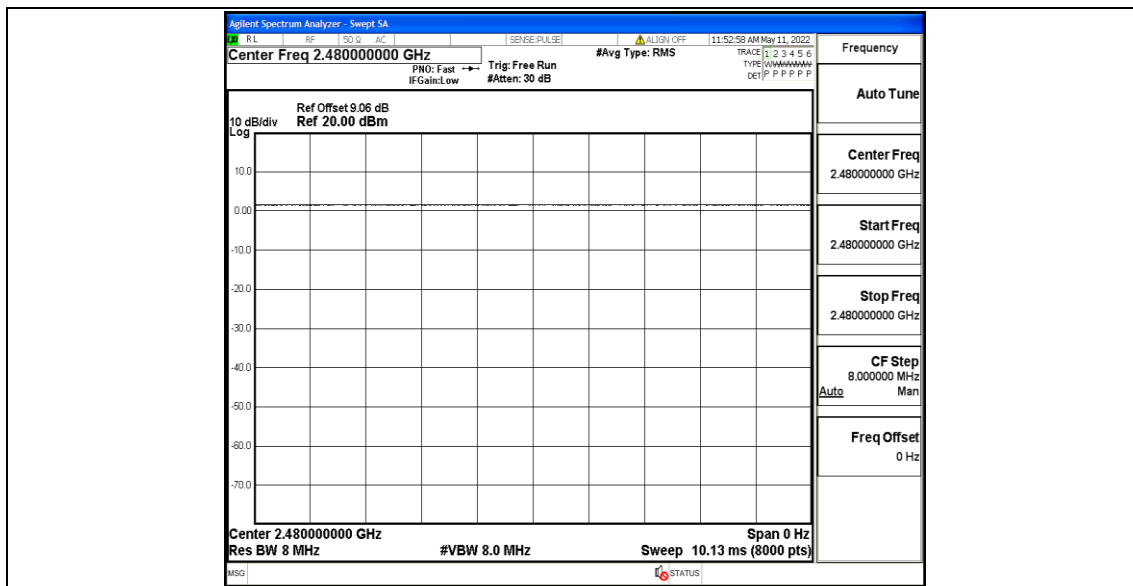
Appendix G: Duty Cycle

Test Result

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

Test Graphs





Appendix H: Emissions in Restricted Bands

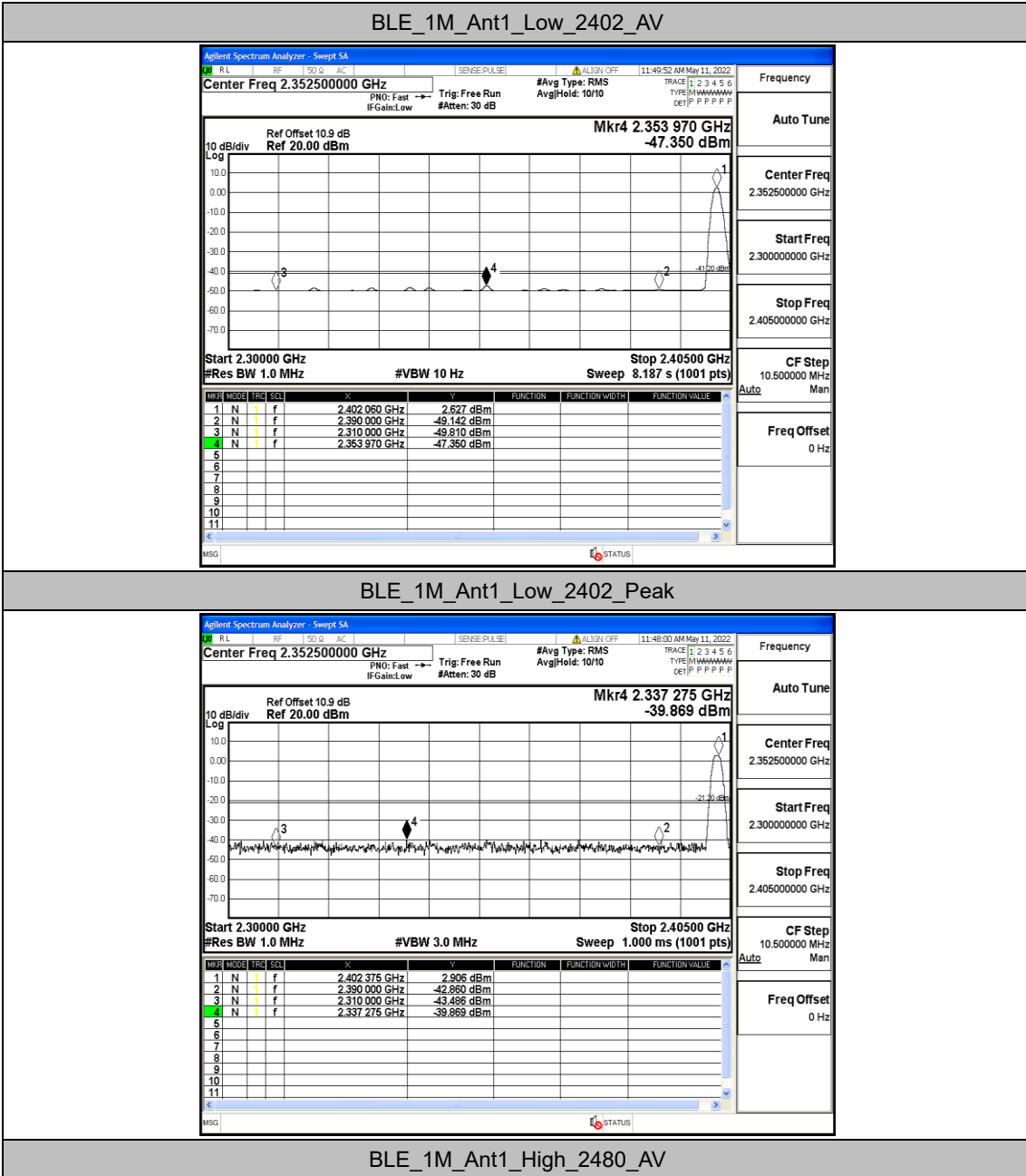
Test Result

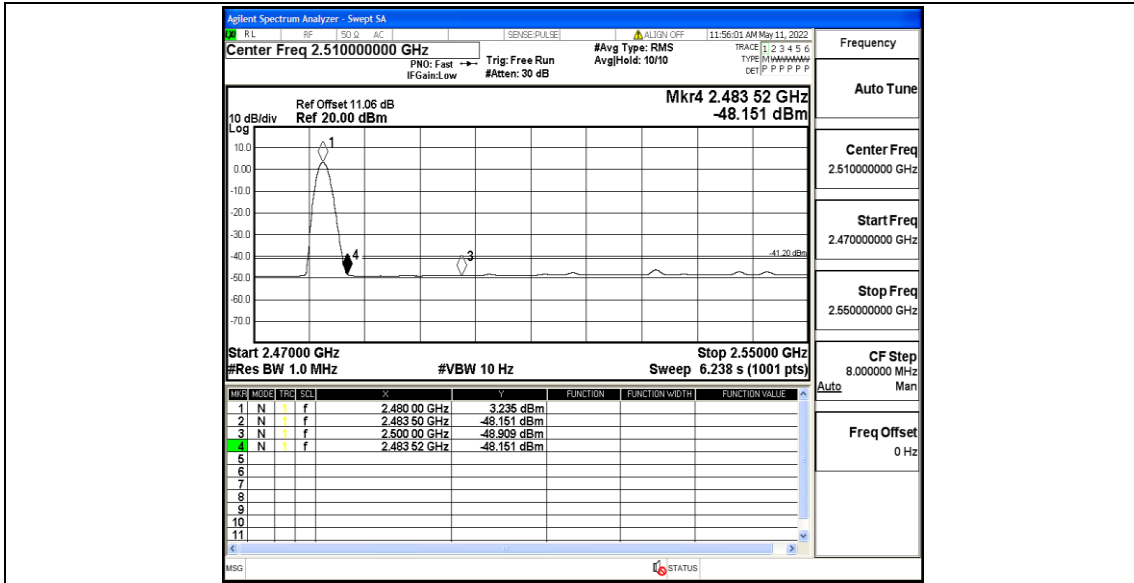
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.81	≤-41.20	PASS
				AV	2353.970	-47.35	≤-41.20	PASS
				AV	2390.000	-49.14	≤-41.20	PASS
				Peak	2310.000	-43.49	≤-21.20	PASS
				Peak	2337.275	-39.87	≤-21.20	PASS
				Peak	2390.000	-42.86	≤-21.20	PASS
		High	2480	AV	2483.500	-48.15	≤-41.20	PASS
				AV	2483.520	-48.15	≤-41.20	PASS
				AV	2500.000	-48.91	≤-41.20	PASS
				Peak	2483.500	-44.13	≤-21.20	PASS
				Peak	2491.440	-40.84	≤-21.20	PASS
				Peak	2500.000	-44.16	≤-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





BLE_1M_Ant1_High_2480_Peak

