

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

Product Name: Bluetooth Audio Receiver

Trade Mark: N/A

Test Model: MBT-CRXv3

FCC ID: 2AD9E-MBTCRXV3

Environmental Conditions

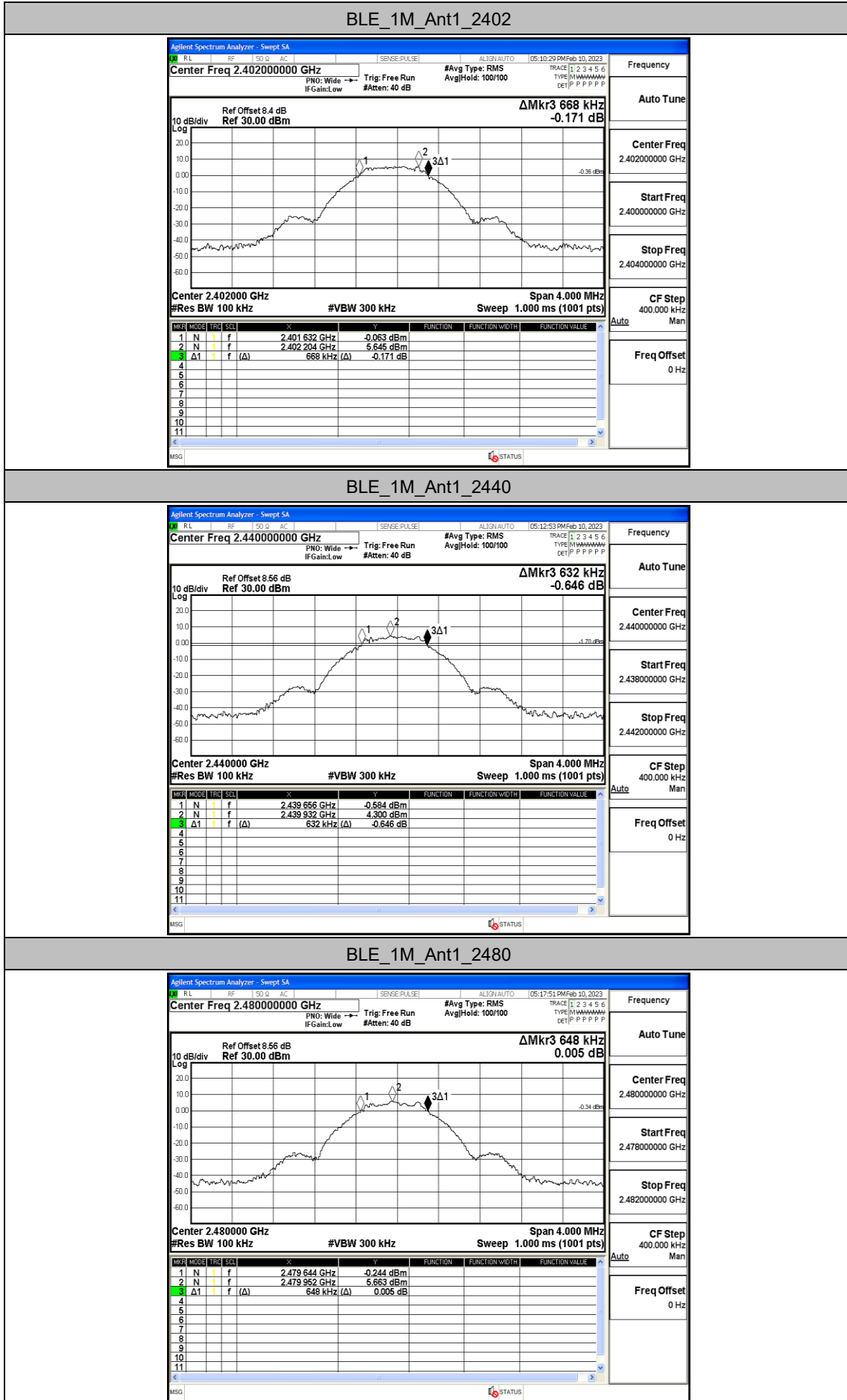
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.632	2402.300	0.5	PASS
		2440	0.632	2439.656	2440.288	0.5	PASS
		2480	0.648	2479.644	2480.292	0.5	PASS

Test Graphs

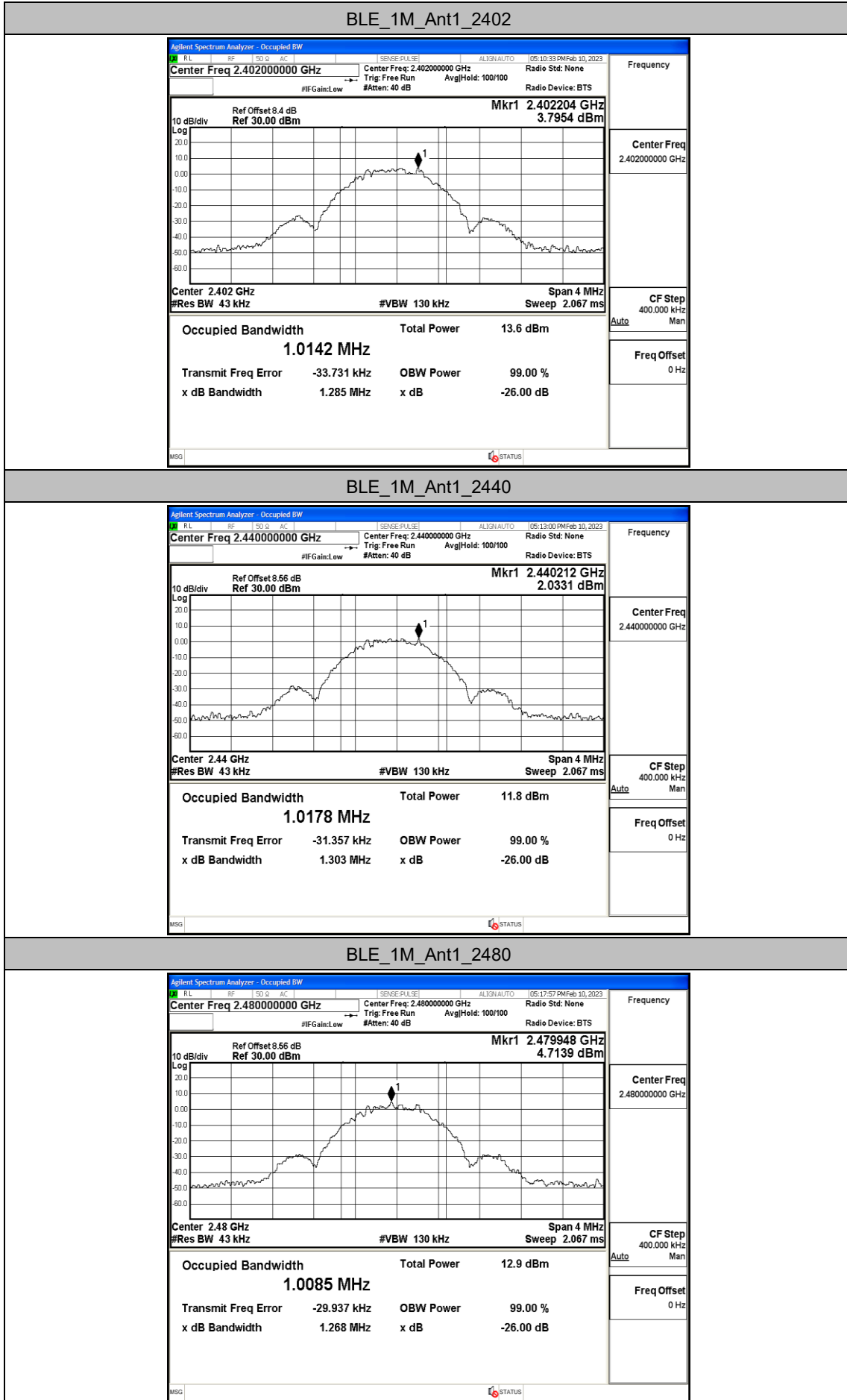


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0142	2401.4592	2402.4734	---	---
		2440	1.0178	2439.4597	2440.4775	---	---
		2480	1.0085	2479.4658	2480.4743	---	---

Test Graphs

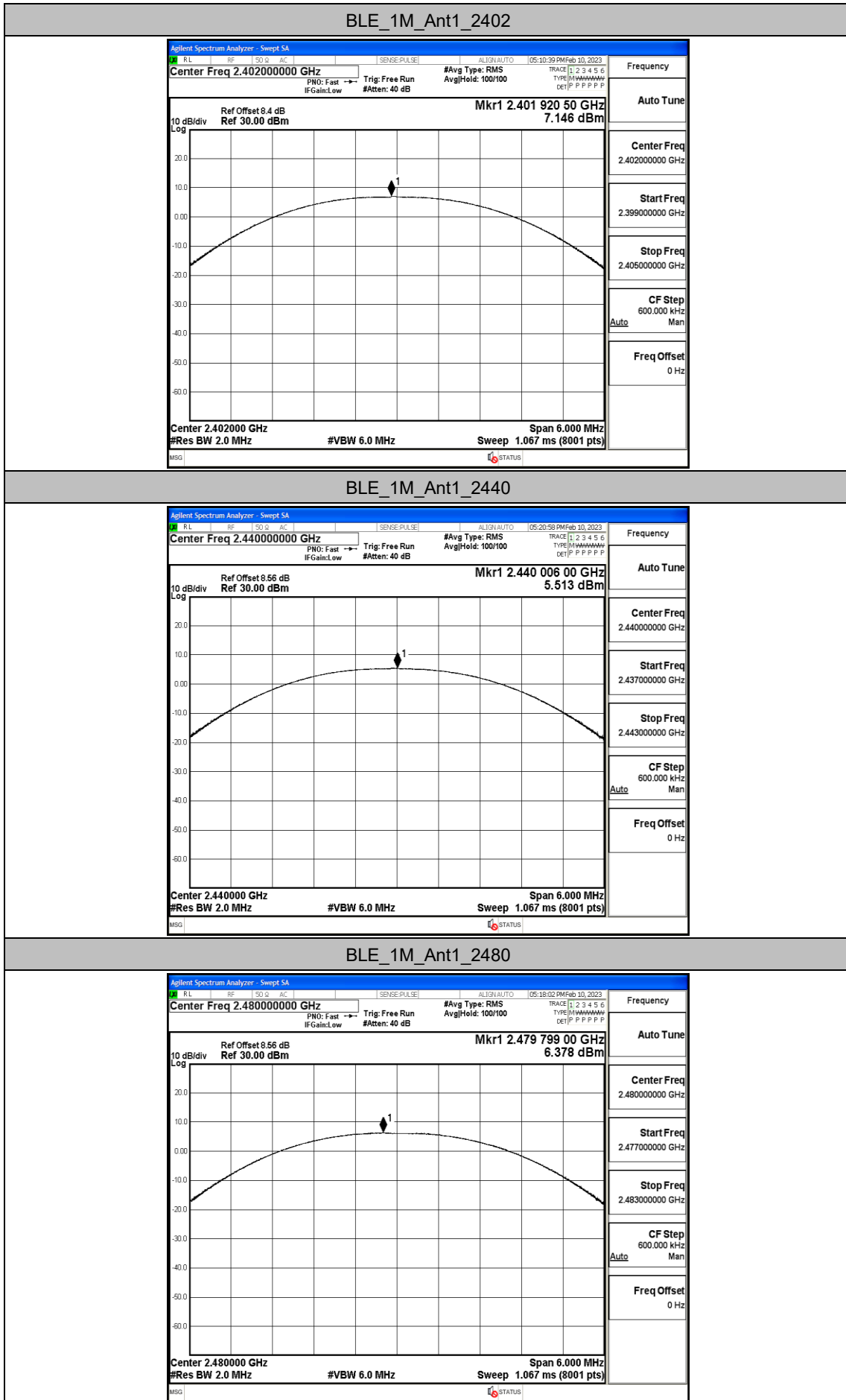


Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.15	≤30	PASS
		2440	5.51	≤30	PASS
		2480	6.38	≤30	PASS

Test Graphs

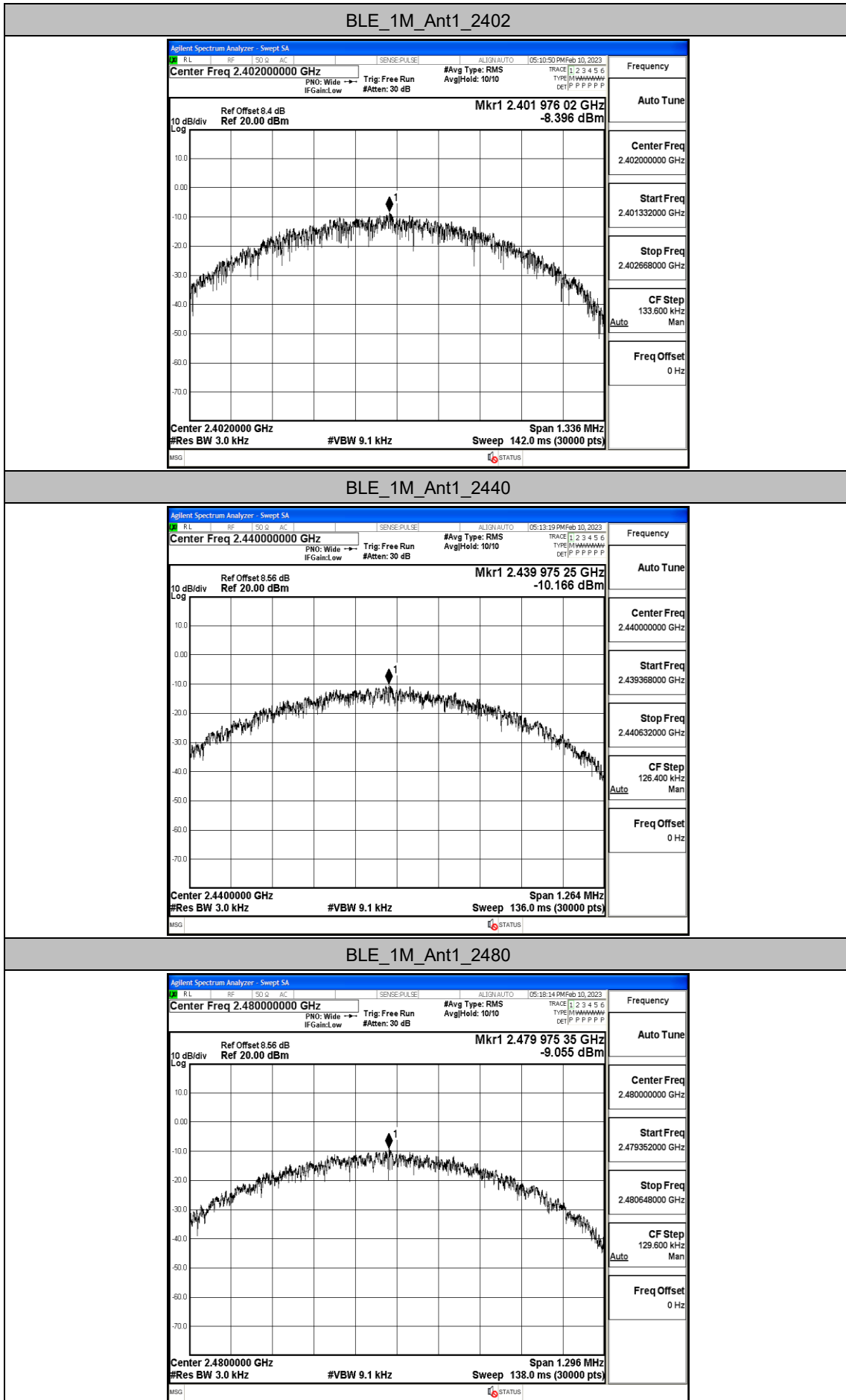


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.4	≤8.00	PASS
		2440	-10.17	≤8.00	PASS
		2480	-9.06	≤8.00	PASS

Test Graphs

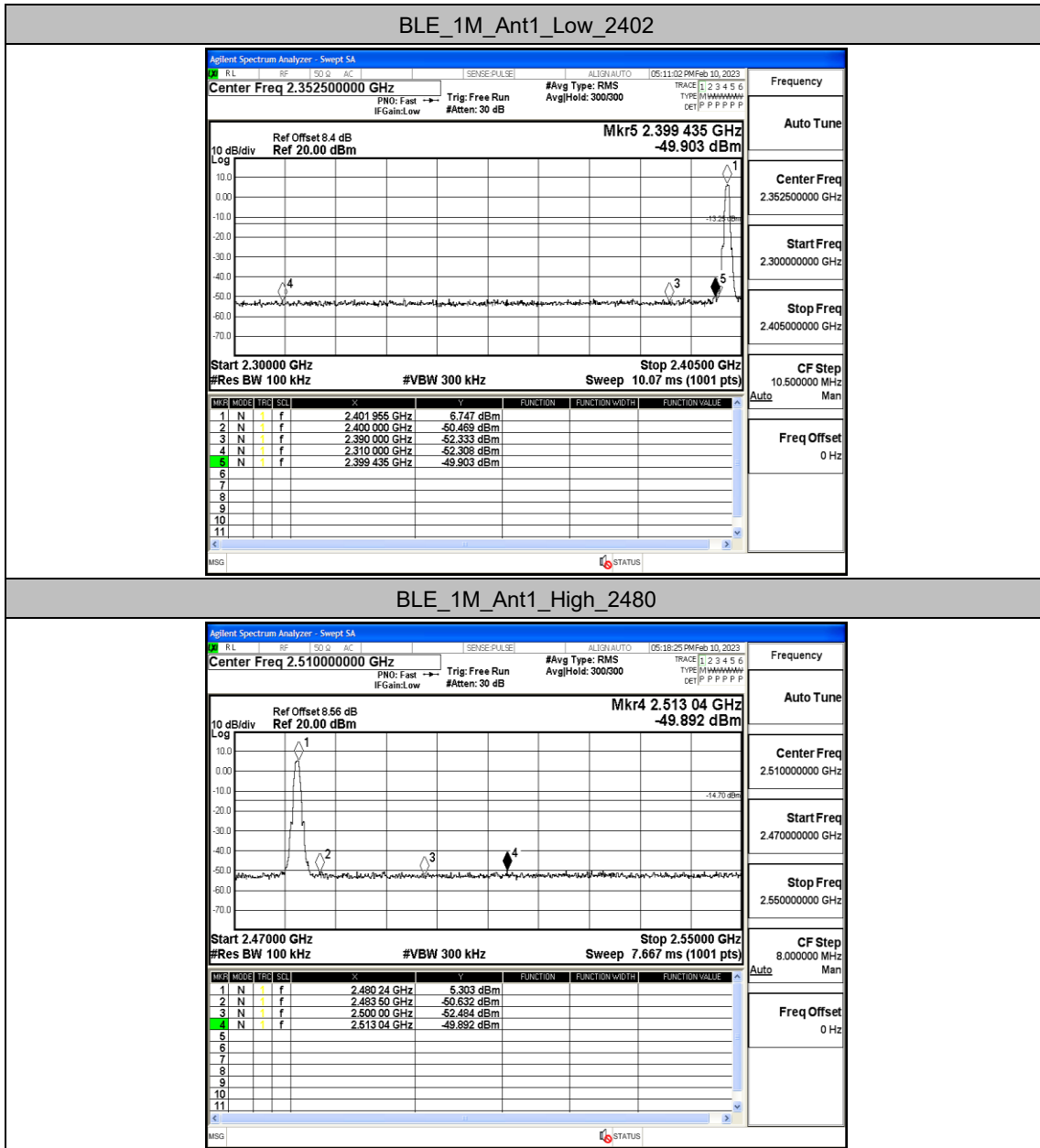


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.75	-49.9	≤-13.25	PASS
		High	2480	5.30	-49.89	≤-14.7	PASS

Test Graphs

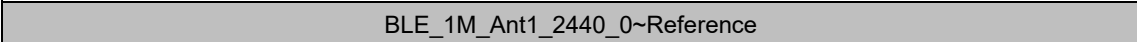
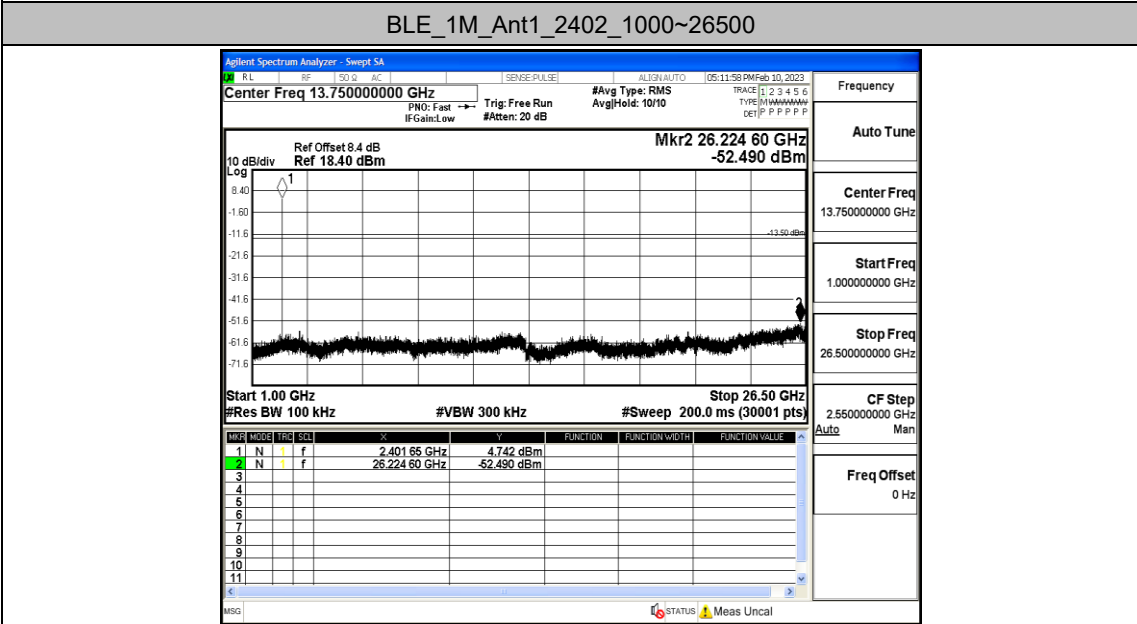
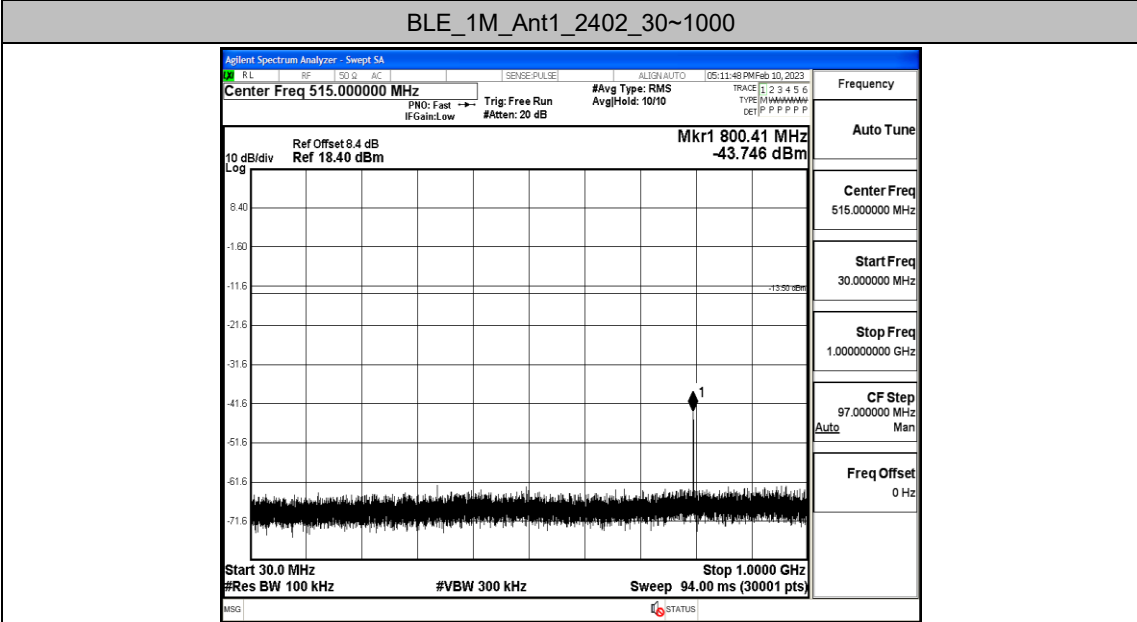
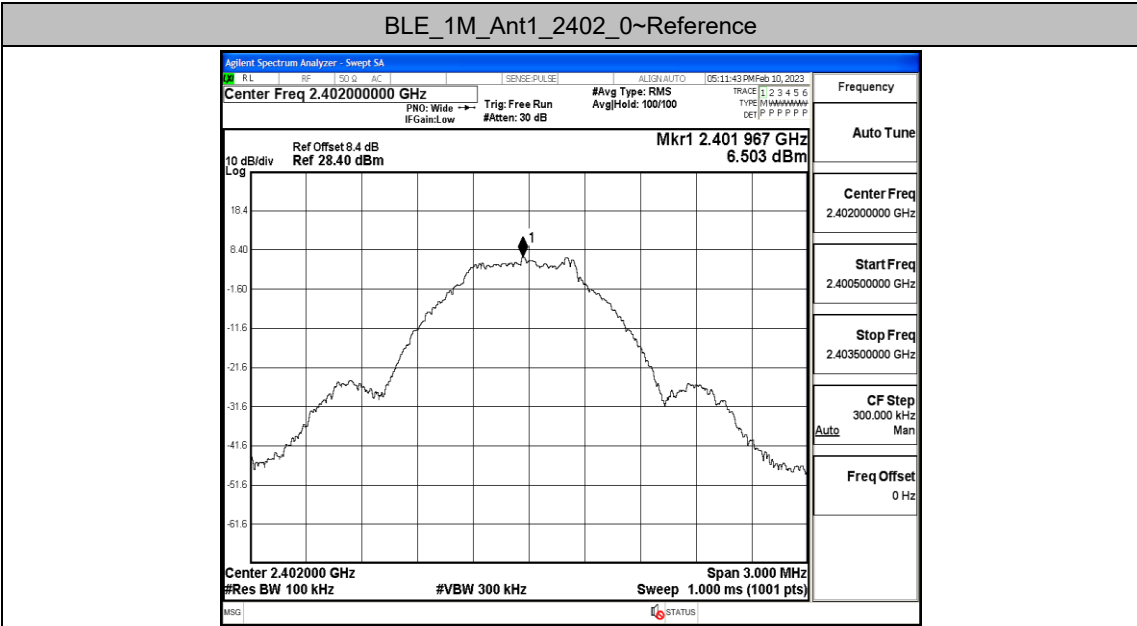


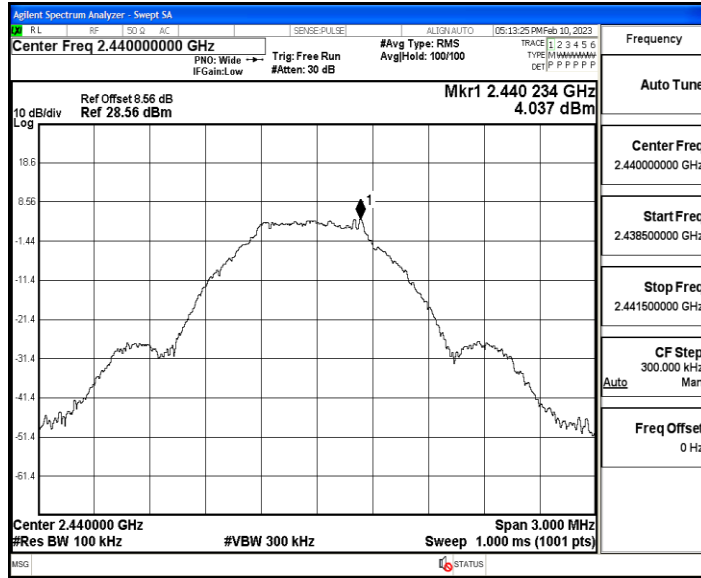
Appendix F: Conducted Spurious Emission

Test Result

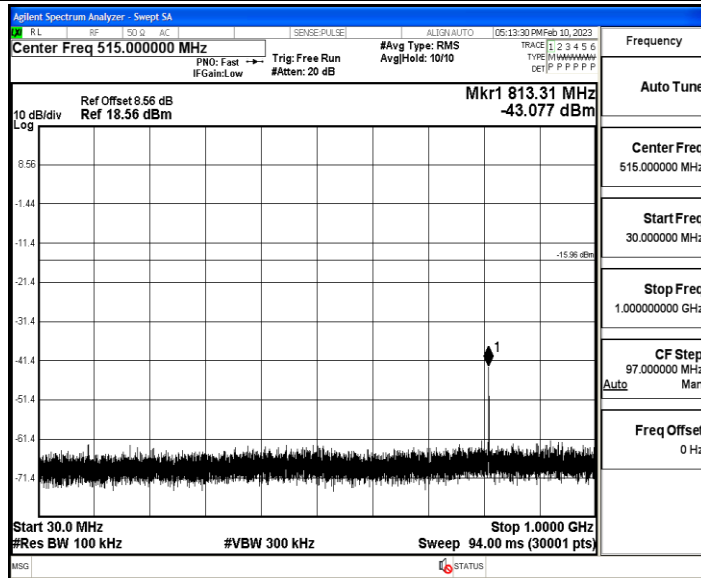
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	6.50	6.50	---	PASS
			30~1000	6.50	-43.75	≤-13.5	PASS
			1000~26500	6.50	-52.49	≤-13.5	PASS
		2440	Reference	4.04	4.04	---	PASS
			30~1000	4.04	-43.08	≤-15.96	PASS
			1000~26500	4.04	-51.97	≤-15.96	PASS
		2480	Reference	6.10	6.10	---	PASS
			30~1000	6.10	-41.24	≤-13.9	PASS
			1000~26500	6.10	-51.42	≤-13.9	PASS

Test Graphs

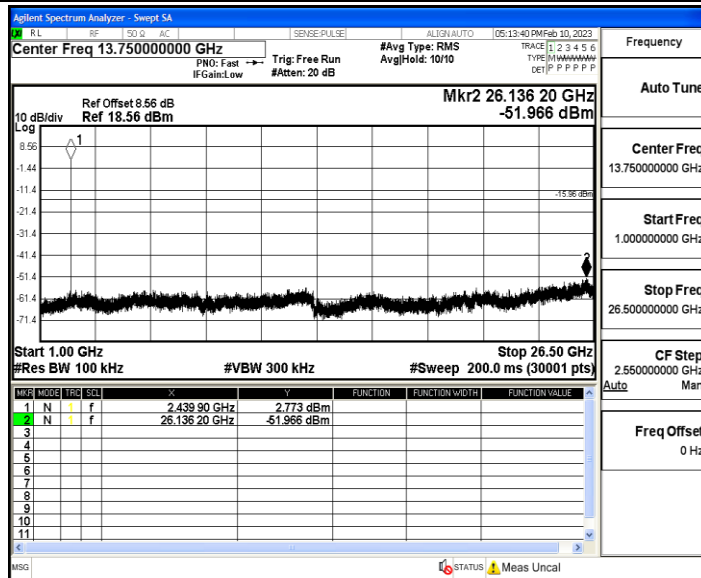




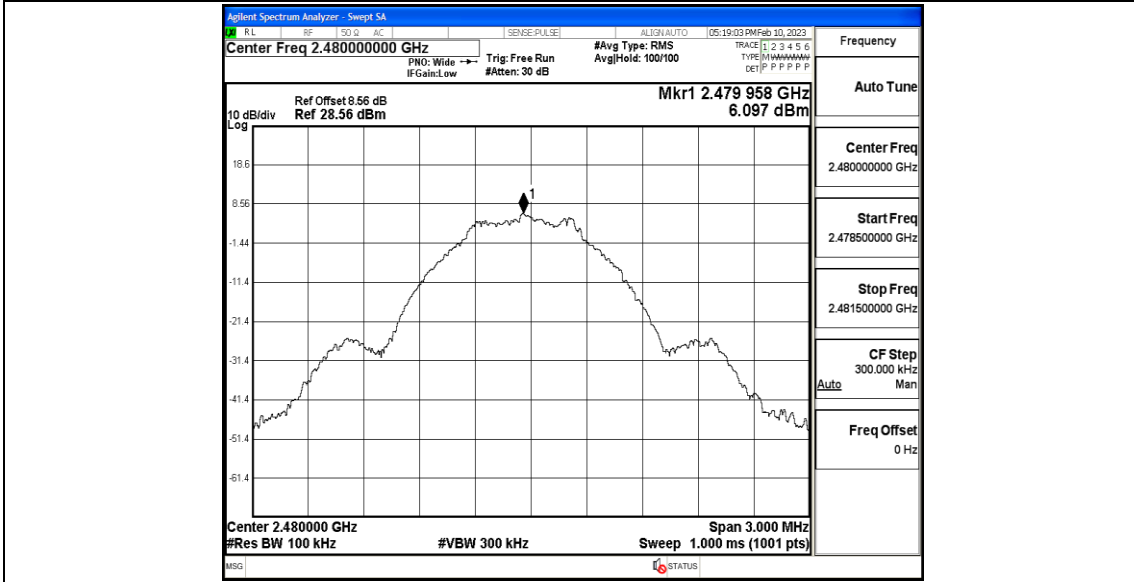
BLE_1M_Ant1_2440_30~1000



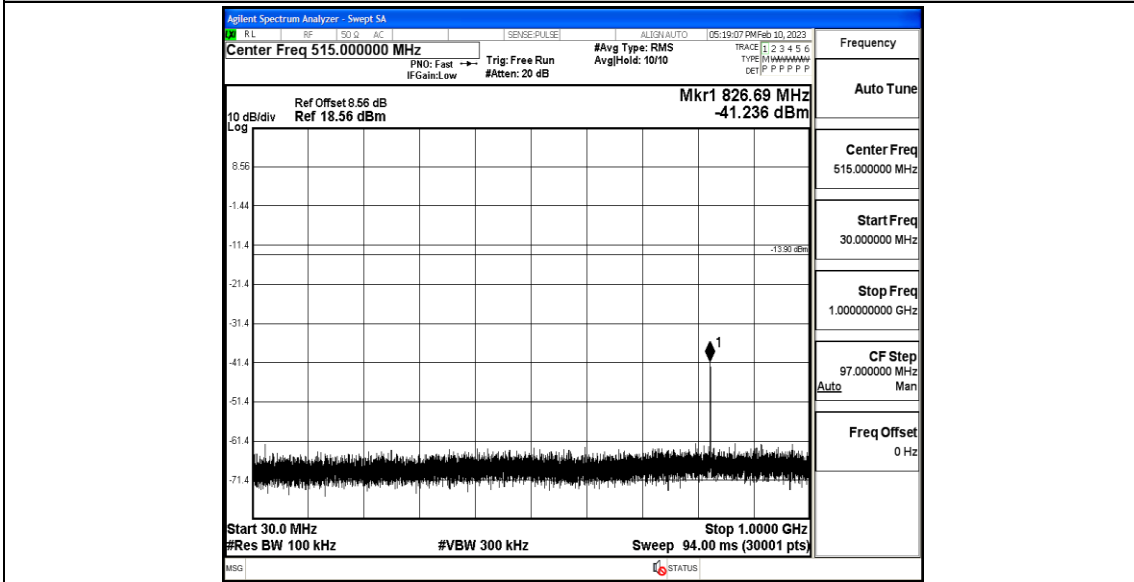
BLE_1M_Ant1_2440_1000~26500



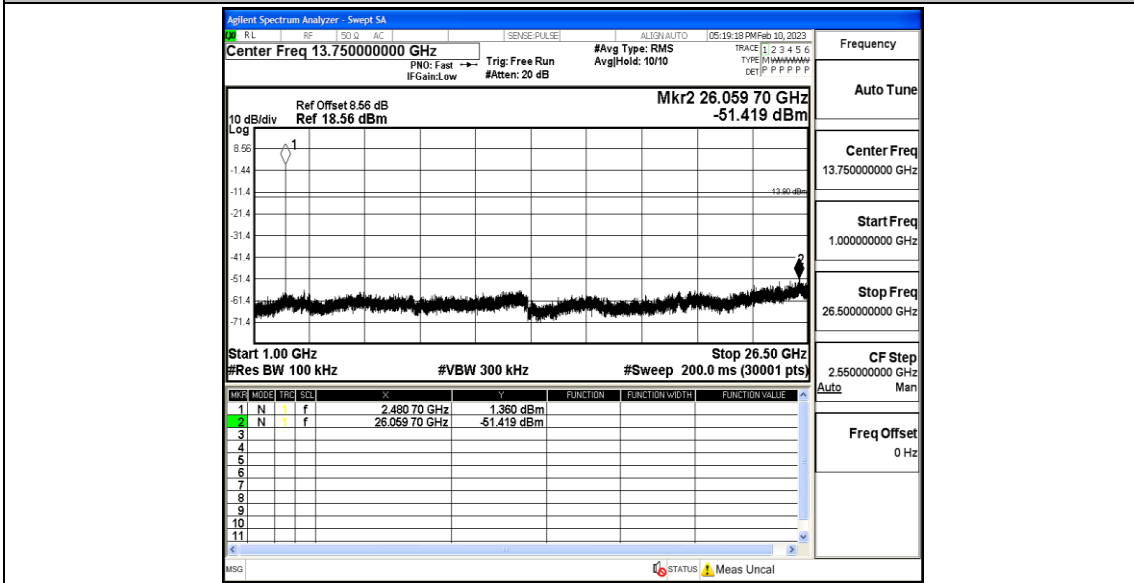
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

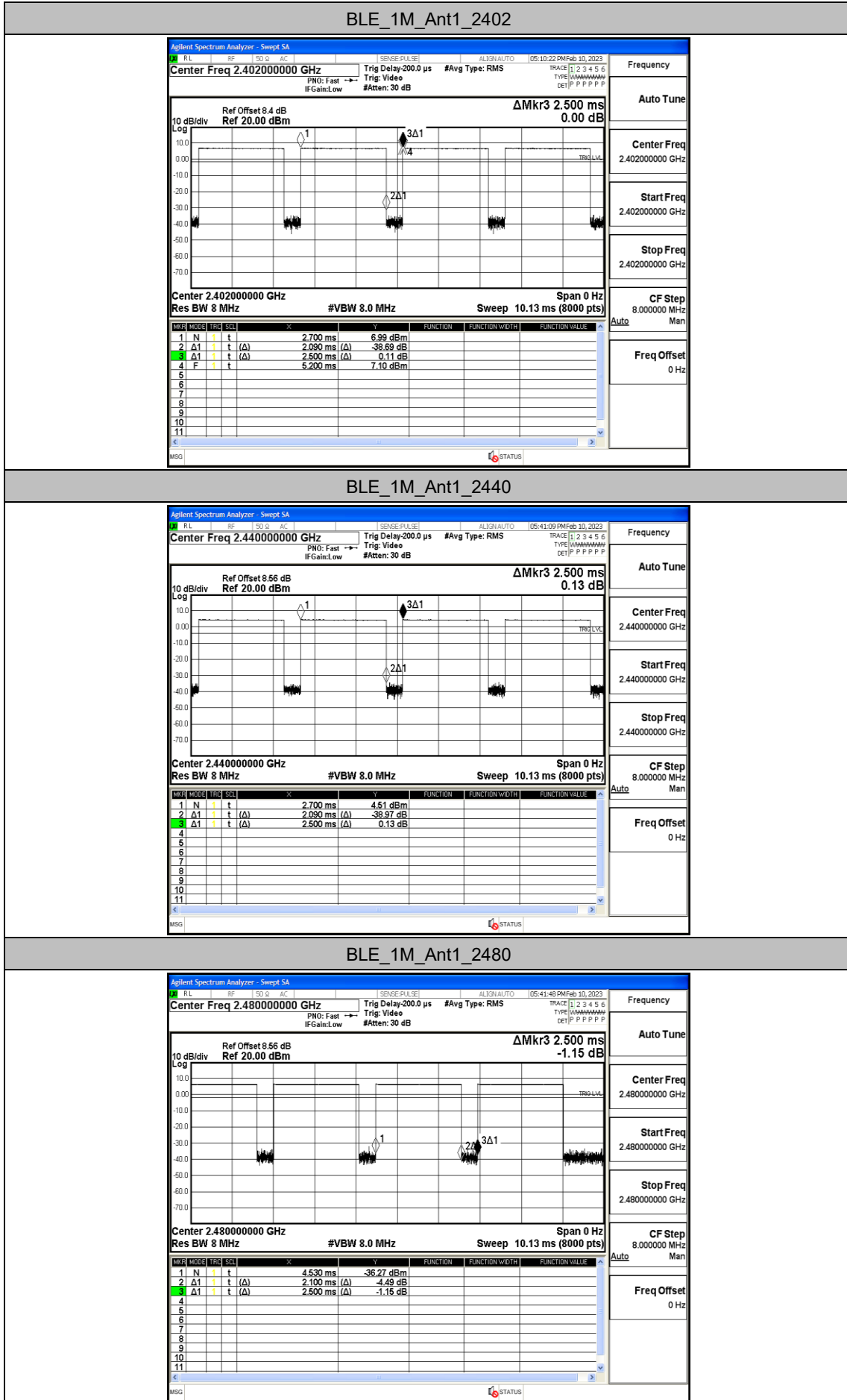


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	2.09	2.50	83.60	0.48
		2440	2.09	2.50	83.60	0.48
		2480	2.10	2.50	84.00	0.48

Test Graphs



Appendix H: Emissions in Restricted Bands

Test Result

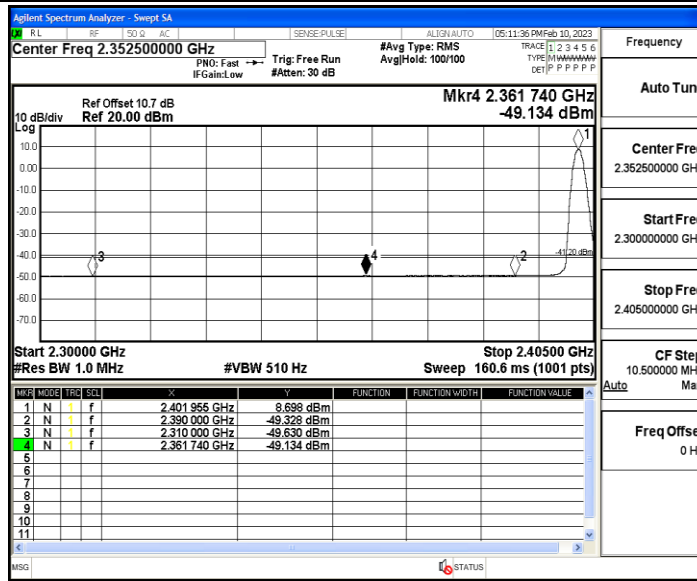
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.63	≤-41.20	PASS
				AV	2361.740	-49.13	≤-41.20	PASS
				AV	2390.000	-49.33	≤-41.20	PASS
				Peak	2310.000	-41.86	≤-21.20	PASS
				Peak	2388.830	-38.61	≤-21.20	PASS
				Peak	2390.000	-40.86	≤-21.20	PASS
		High	2480	AV	2483.500	-46.82	≤-41.20	PASS
				AV	2483.520	-46.82	≤-41.20	PASS
				AV	2500.000	-48.61	≤-41.20	PASS
				Peak	2483.500	-41.33	≤-21.20	PASS
				Peak	2487.680	-39.21	≤-21.20	PASS
				Peak	2500.000	-39.63	≤-21.20	PASS

Note:

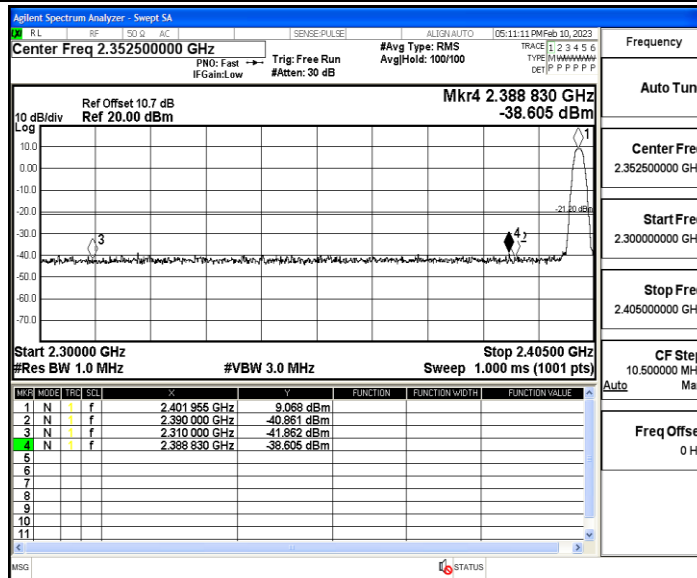
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

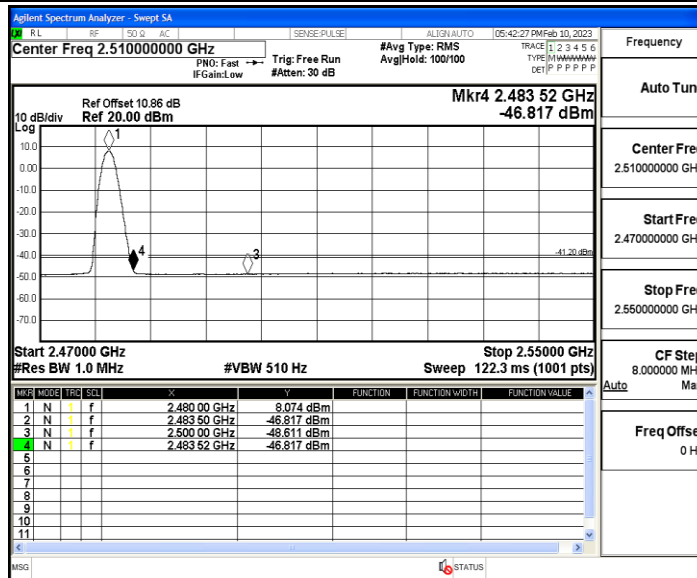
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

