

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Cycling Computer

Trade Mark: COOSPO

Test Model: BC200

FCC ID: 2AF9HBC220

Environmental Conditions

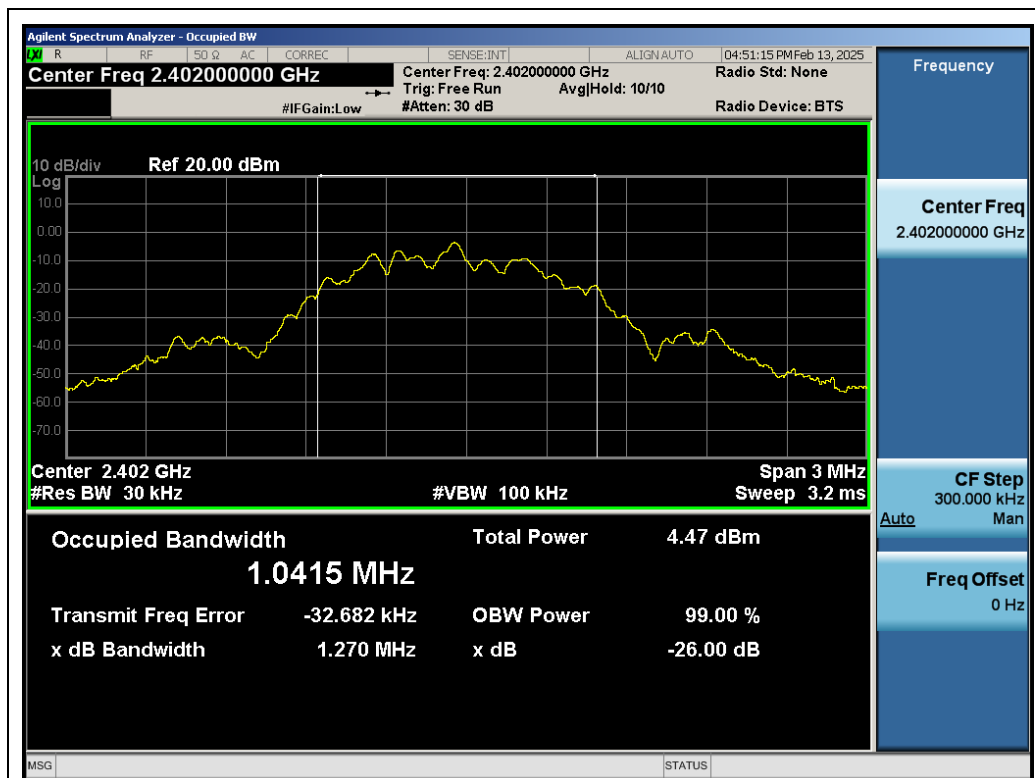
Temperature:	25°C
Relative Humidity:	45%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: DTS Bandwidth & Occupied Channel Bandwidth

Test Result

Test Mode	Test Frequency	Occupied Bandwidth (MHz)	DTS BW (MHz)	DTS BW Limits	Pass or Fail
GFSK_1Mbps	2402	1.042	0.692	≥ 0.5	Pass
	2440	1.045	0.694	≥ 0.5	Pass
	2480	1.046	0.692	≥ 0.5	Pass

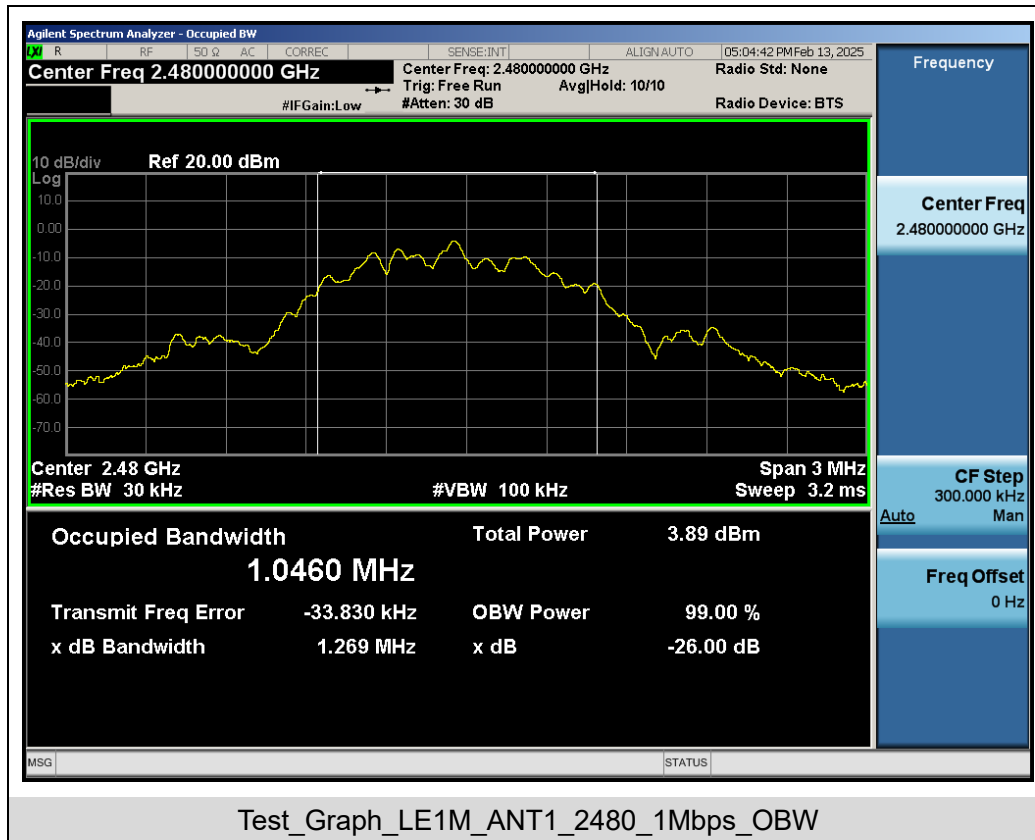
Test Graphs

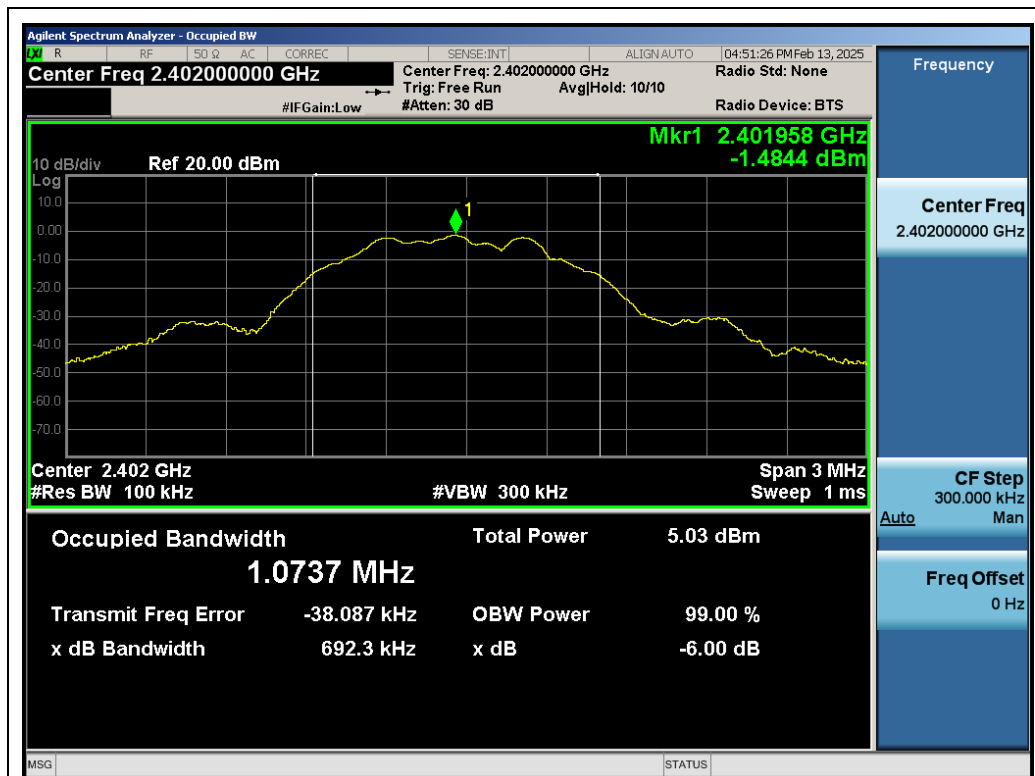


Test_Graph_LE1M_ANT1_2402_1Mbps_OBW

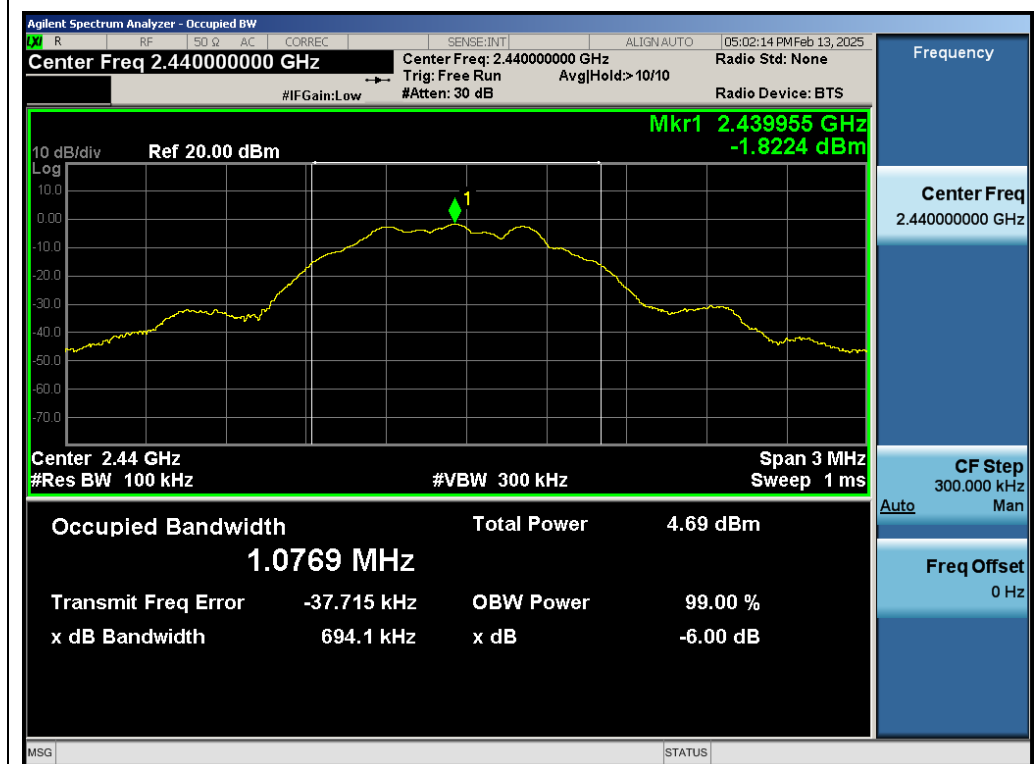


Test_Graph_LE1M_ANT1_2440_1Mbps_OBW

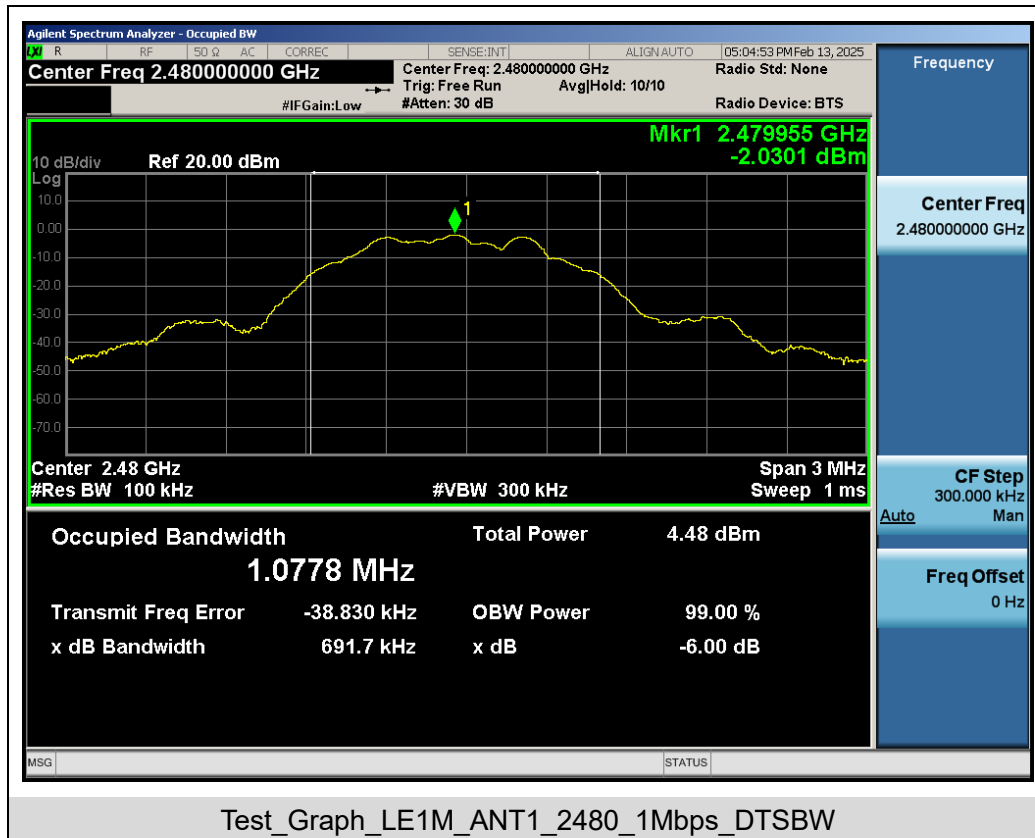




Test_Graph_LE1M_ANT1_2402_1Mbps_DTSBW



Test_Graph_LE1M_ANT1_2440_1Mbps_DTSBW

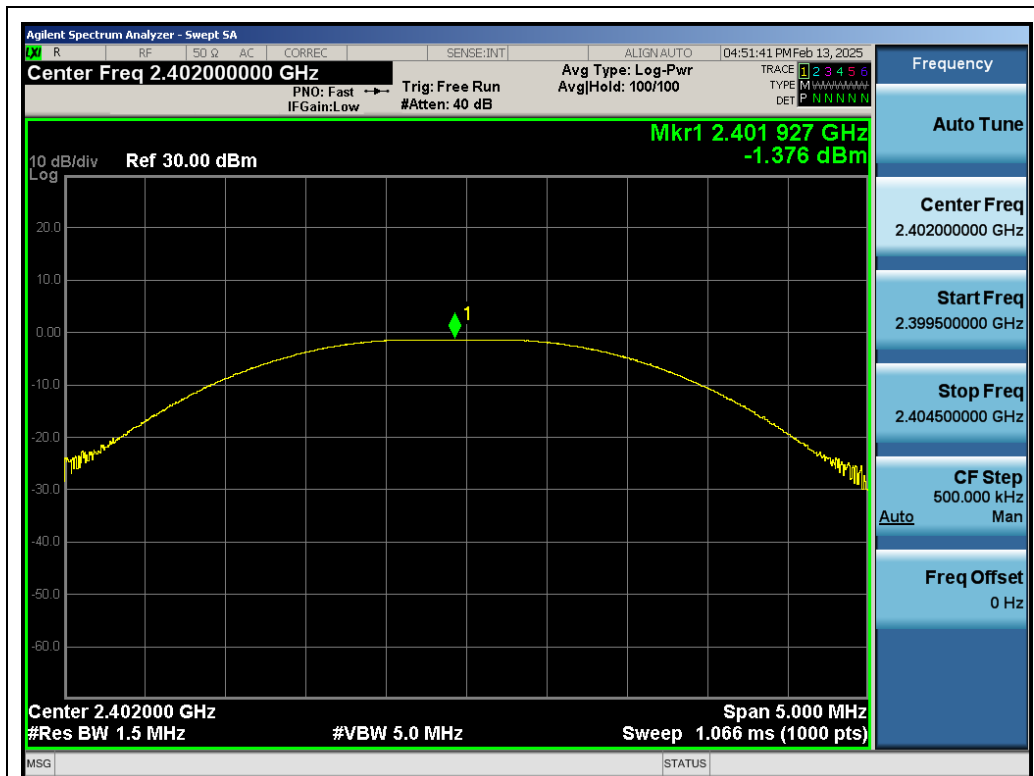


Appendix B: Maximum peak conducted output power

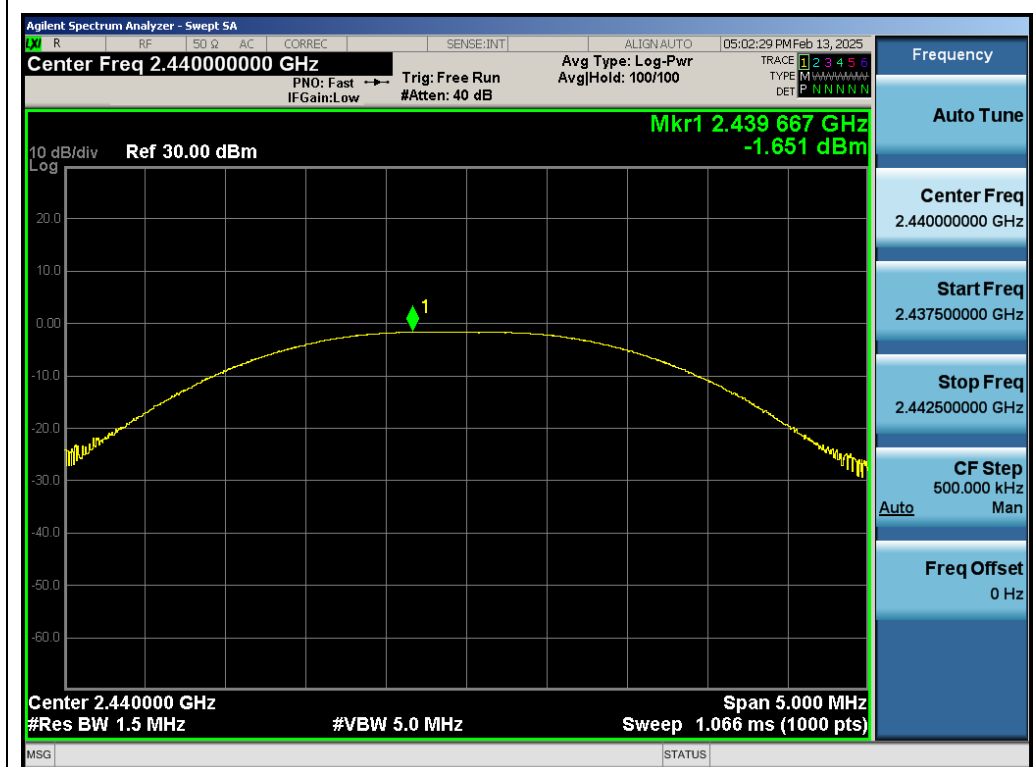
Test Result Peak

Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK_1Mbps	2402	-1.376	≤ 30	Pass
	2440	-1.651	≤ 30	Pass
	2480	-1.949	≤ 30	Pass

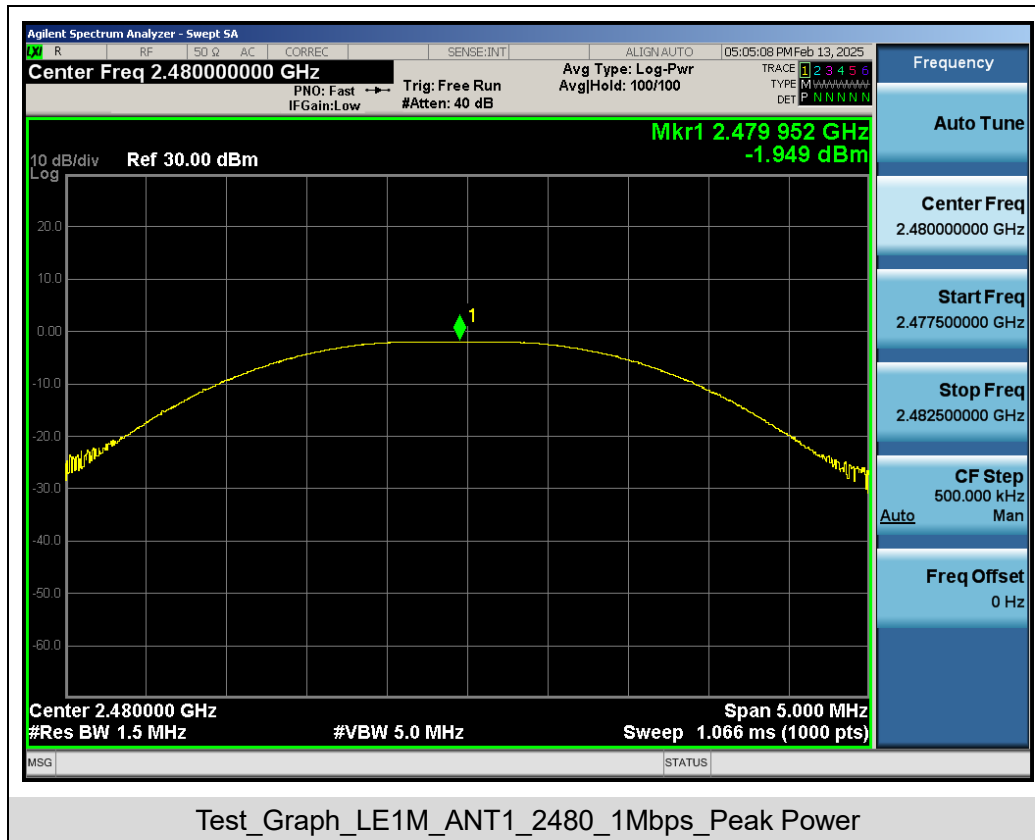
Test Graphs Peak



Test_Graph_LE1M_ANT1_2402_1Mbps_Peak Power



Test_Graph_LE1M_ANT1_2440_1Mbps_Peak Power

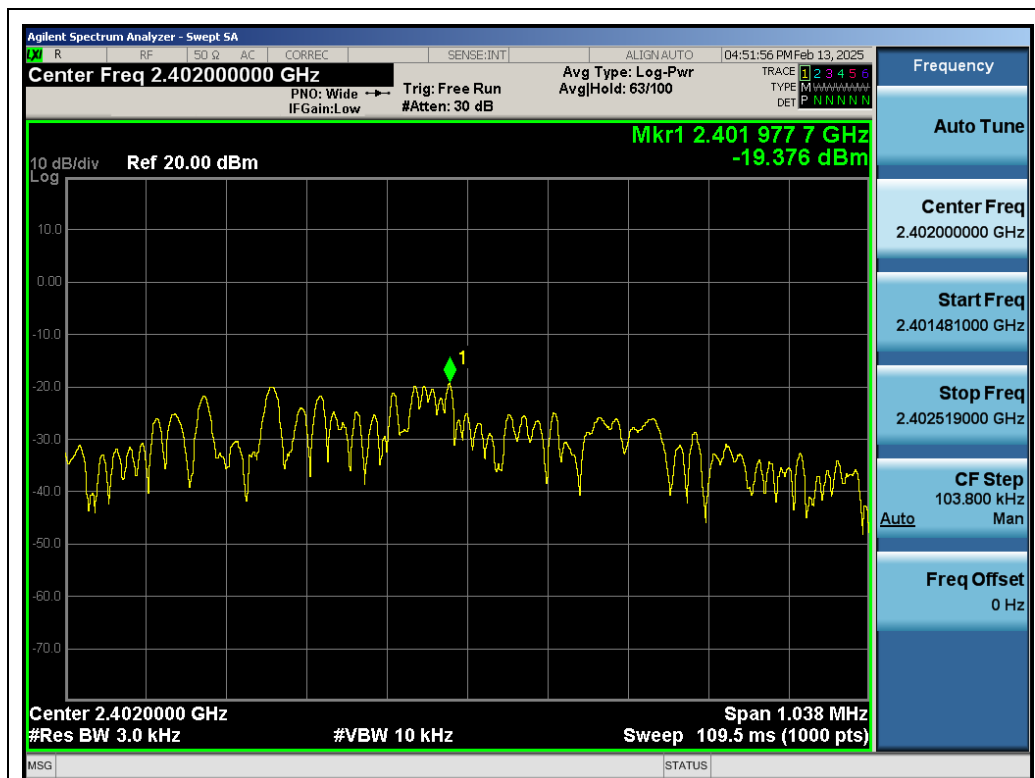


Appendix C: Maximum peak power spectral density

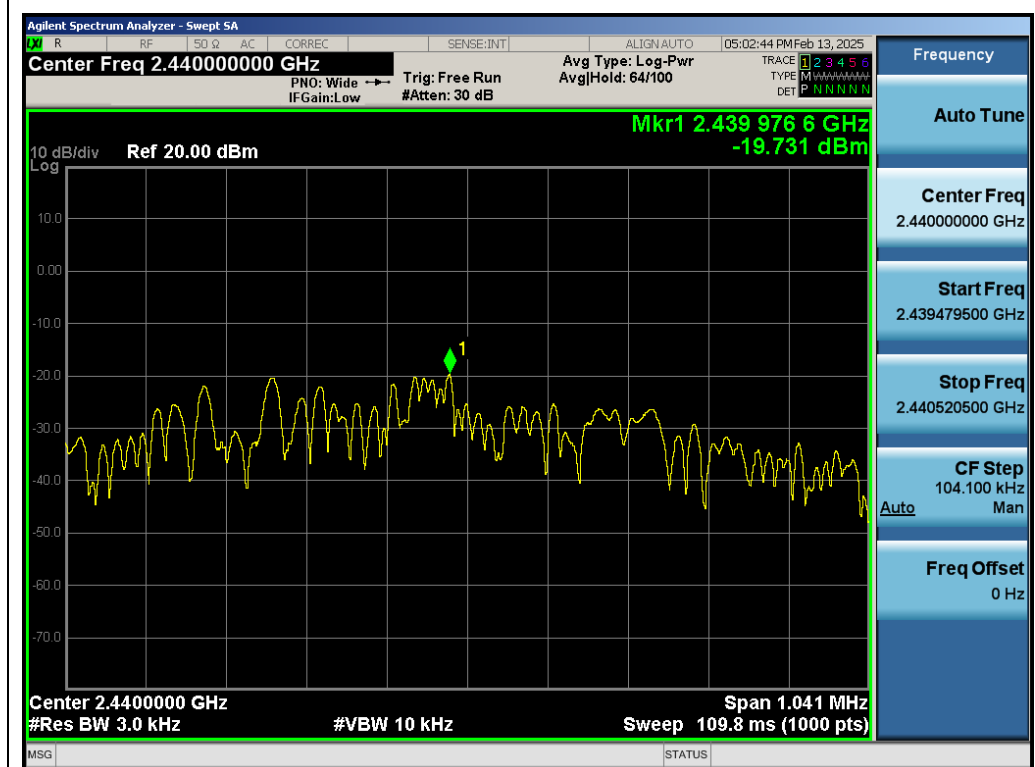
Test Result

Test Mode	Test Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK_1Mbps	2402	-19.376	≤ 8	Pass
	2440	-19.731	≤ 8	Pass
	2480	-19.938	≤ 8	Pass

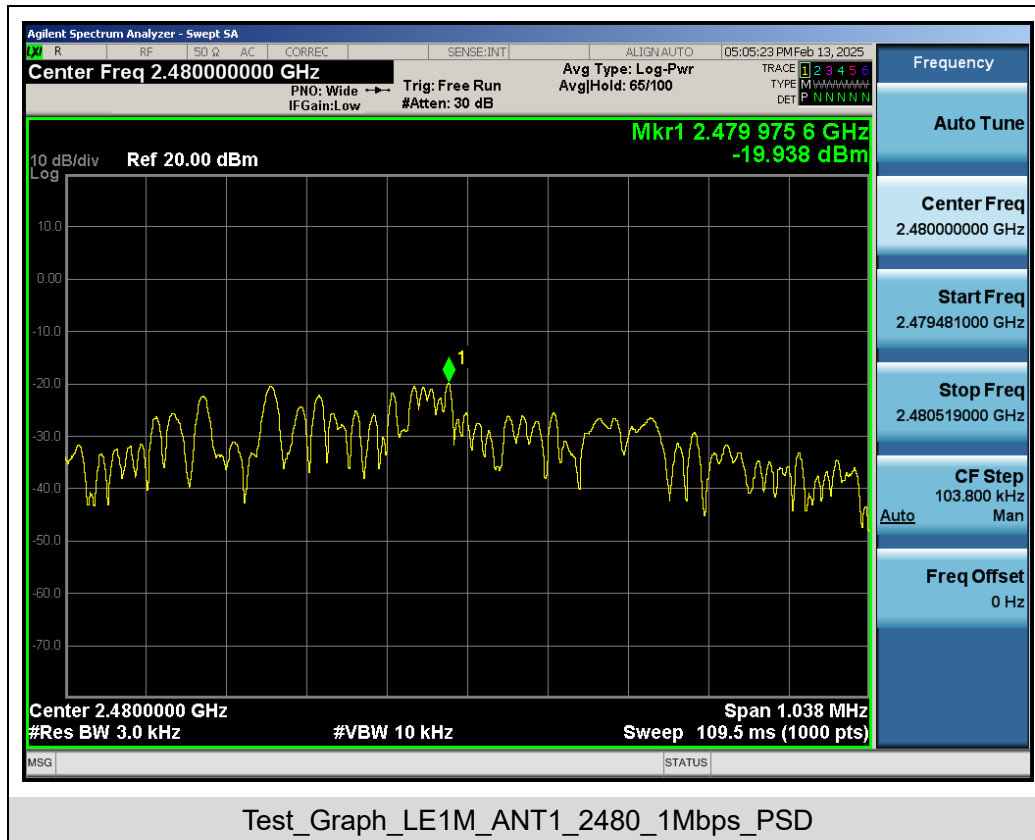
Test Graphs



Test_Graph_LE1M_ANT1_2402_1Mbps_PSD



Test_Graph_LE1M_ANT1_2440_1Mbps_PSD

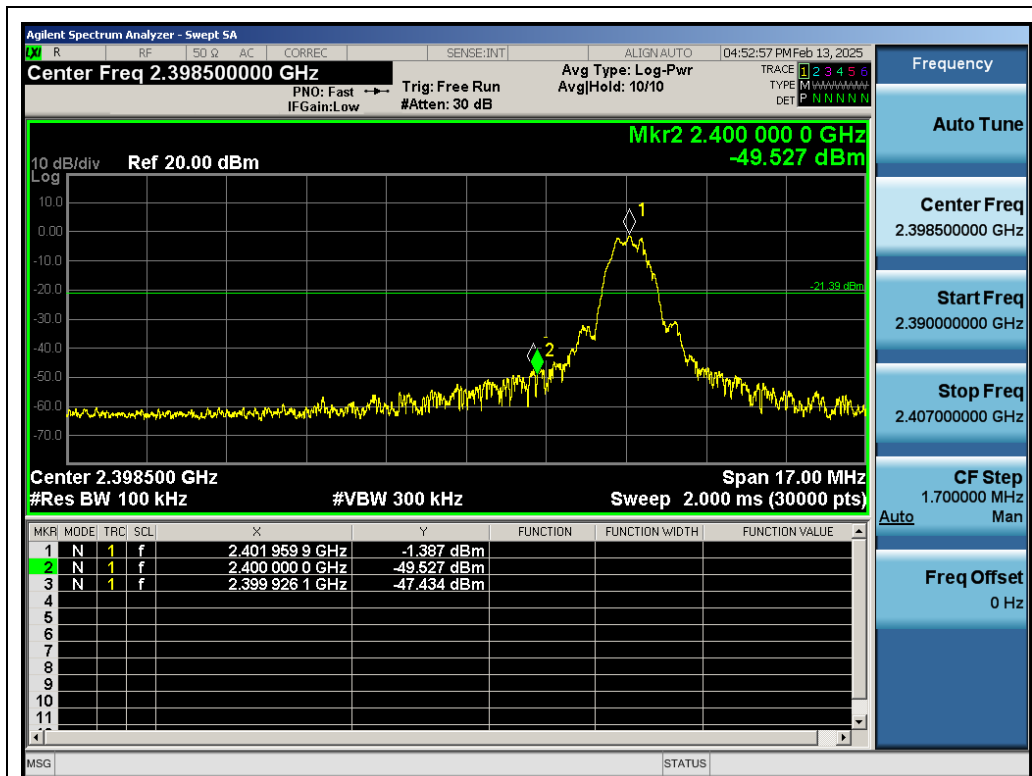


Appendix D: Band edge measurements

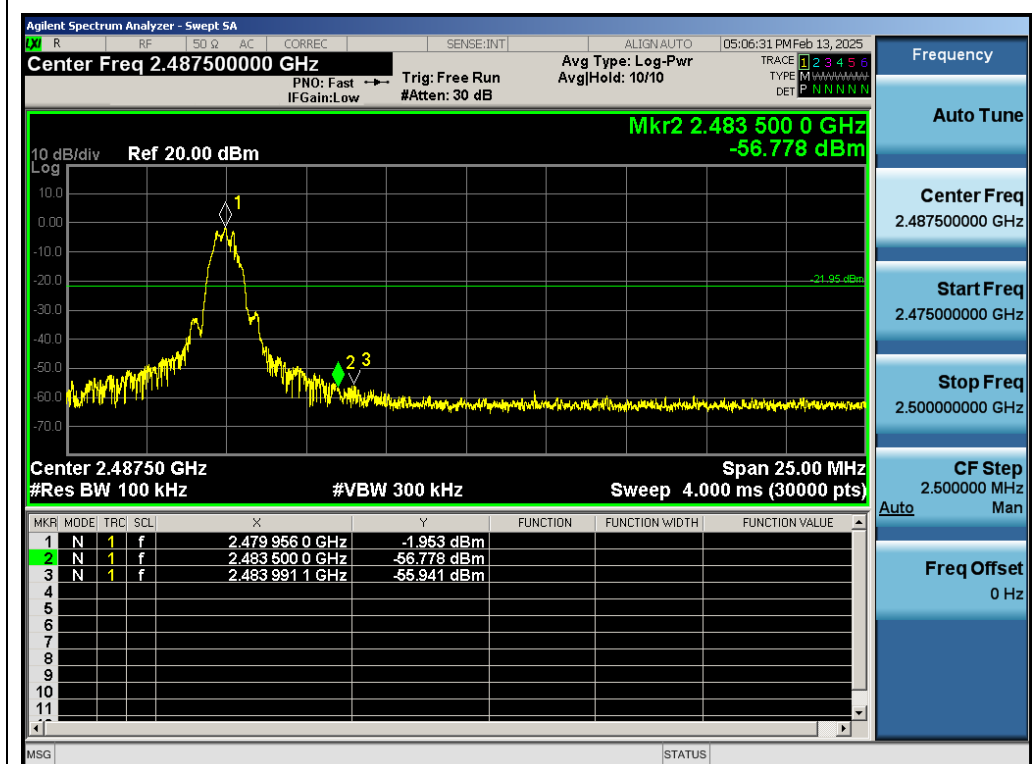
Test Result

Test Mode	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
GFSK_1Mbps	Low	2402	-1.387	-49.527	≤ -21.39	Pass
GFSK_1Mbps	High	2480	-1.953	-56.778	≤ -21.95	Pass

Test Graphs



Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Edge Emissions



Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Edge Emissions

Appendix E: Conducted Spurious Emission

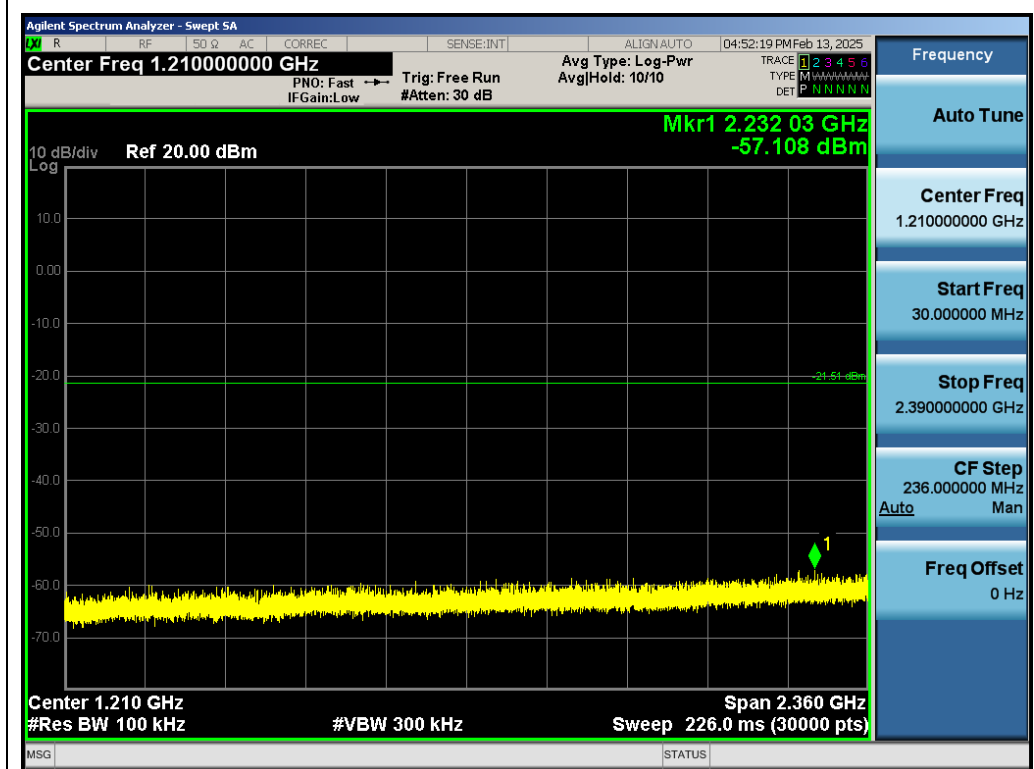
Test Result

Test Mode	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
GFSK_1Mbps	2402	0~Reference	-1.510	-1.510	---	Pass
GFSK_1Mbps	2402	30~2390	-1.510	-57.108	≤ -21.51	Pass
GFSK_1Mbps	2402	2483.5~25000	-1.510	-48.306	≤ -21.51	Pass
GFSK_1Mbps	2440	0~Reference	-1.854	-1.854	---	Pass
GFSK_1Mbps	2440	30~2400	-1.854	-57.412	≤ -21.85	Pass
GFSK_1Mbps	2440	2483.5~25000	-1.854	-48.527	≤ -21.85	Pass
GFSK_1Mbps	2480	0~Reference	-2.080	-2.080	---	Pass
GFSK_1Mbps	2480	30~2400	-2.080	-57.477	≤ -22.08	Pass
GFSK_1Mbps	2480	2500~26500	-2.080	-48.819	≤ -22.08	Pass

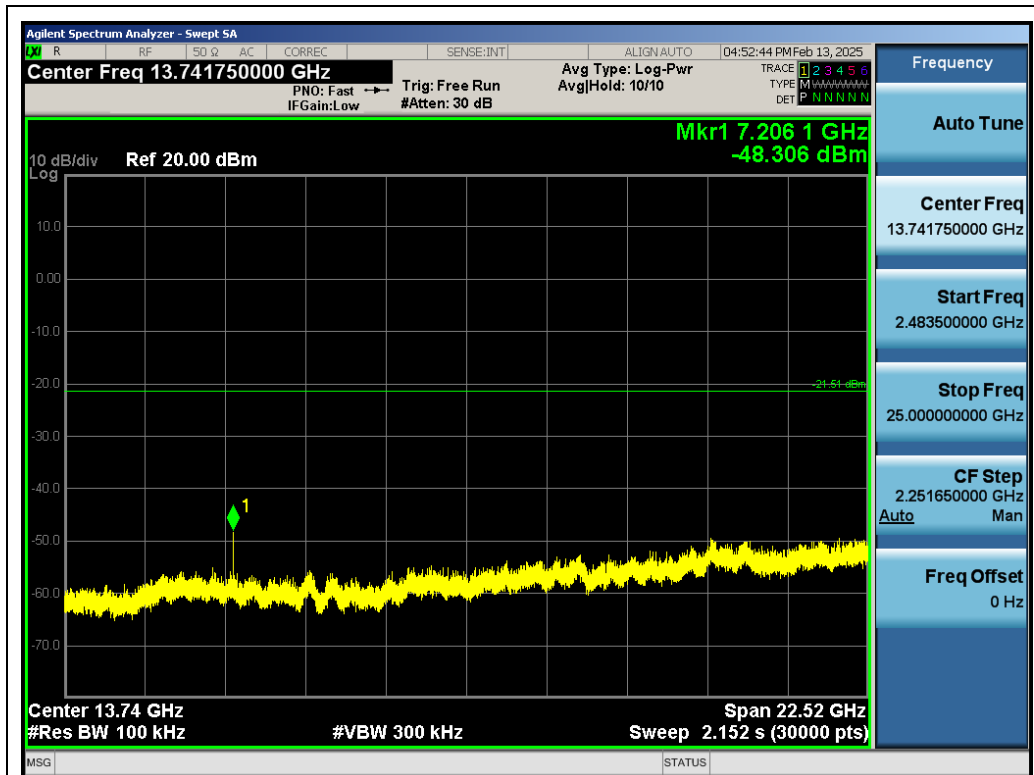
Test Graphs



Test_Graph_LE1M_ANT1_2402_1Mbps_Reference Level



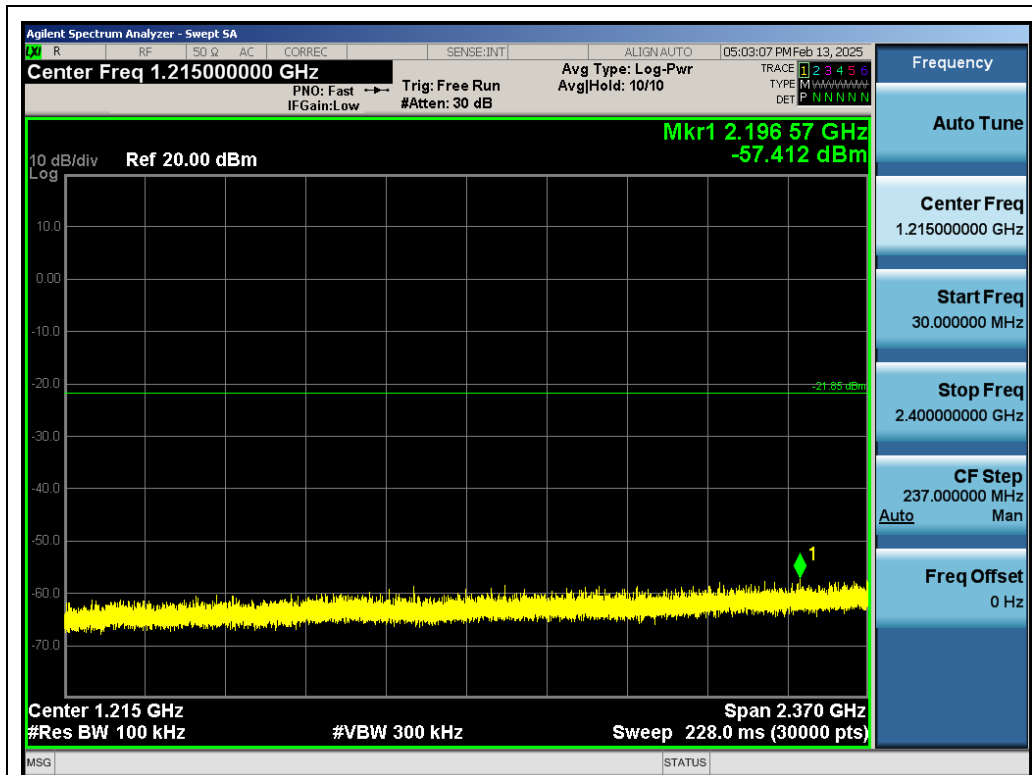
Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Emissions



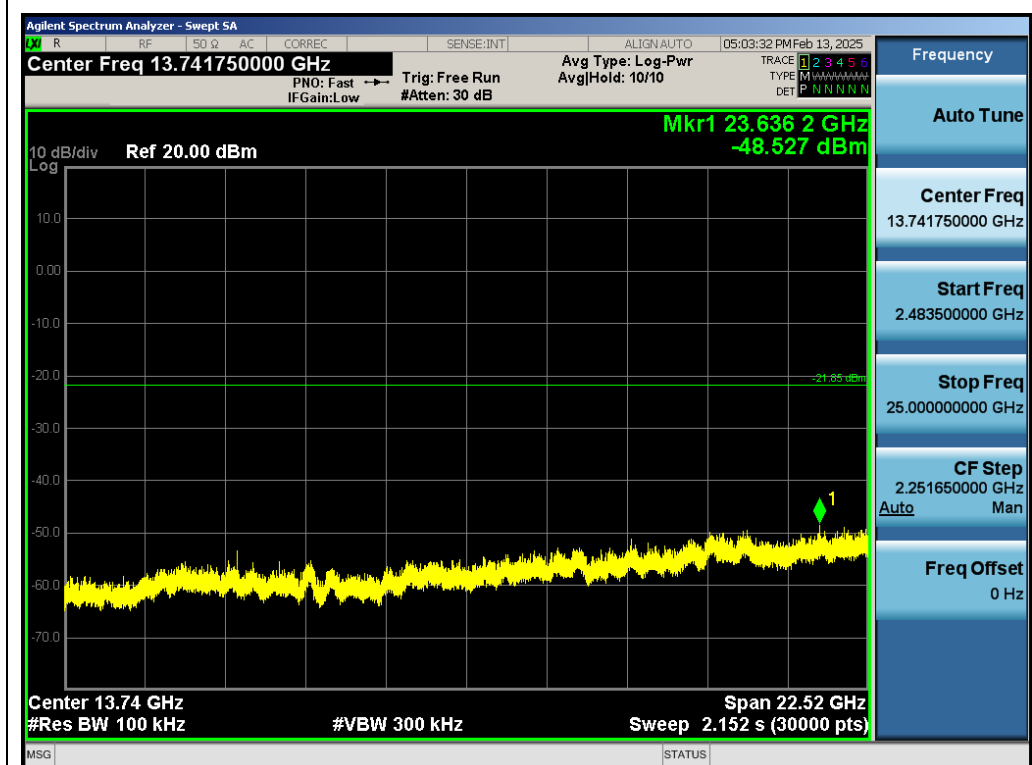
Test_Graph_LE1M_ANT1_2402_1Mbps_Higher Band Emissions



Test_Graph_LE1M_ANT1_2440_1Mbps_Reference Level



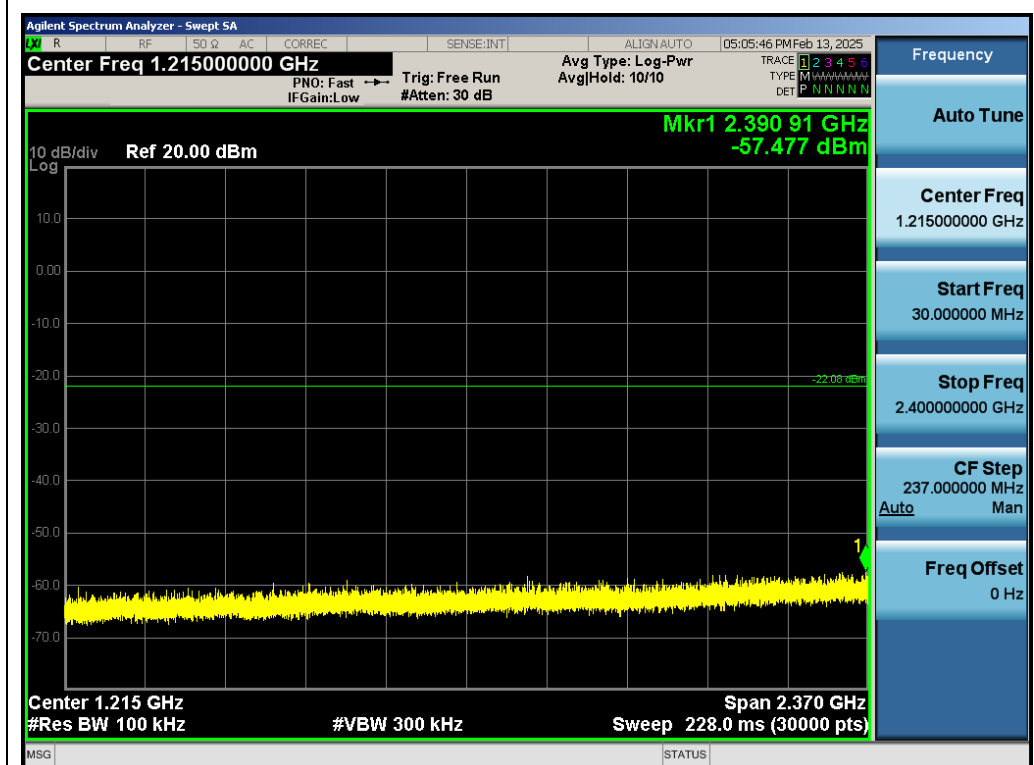
Test_Graph_LE1M_ANT1_2440_1Mbps_Lower Band Emissions



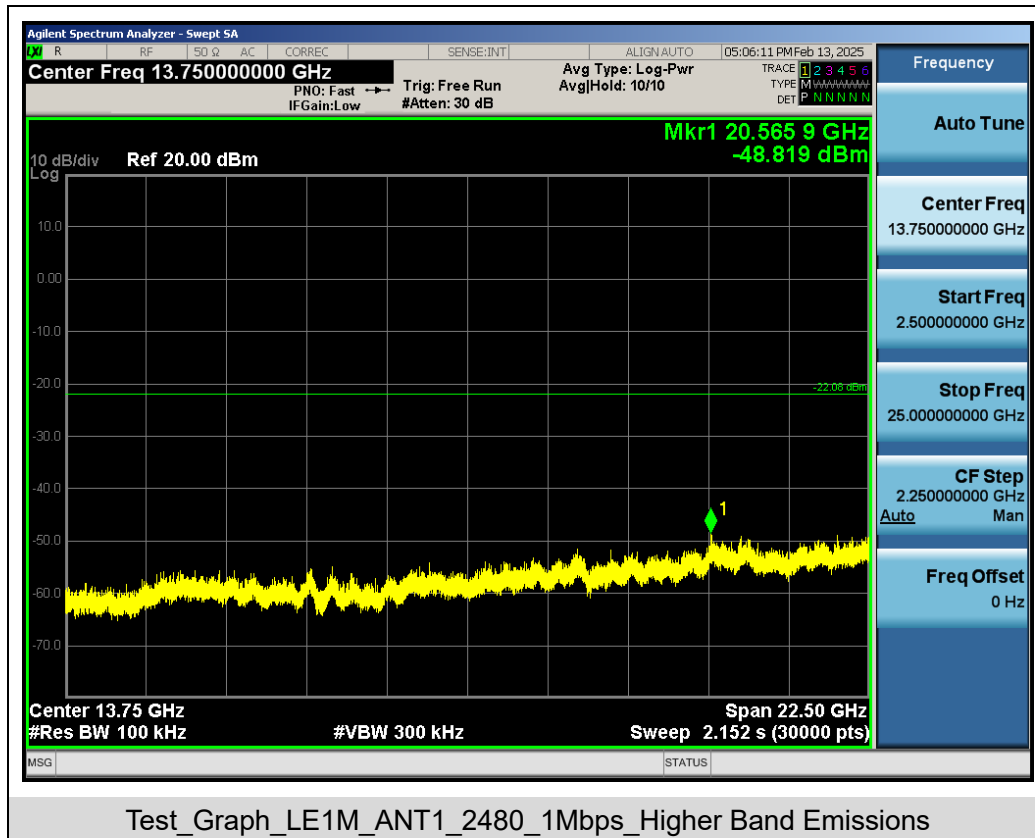
Test_Graph_LE1M_ANT1_2440_1Mbps_Higher Band Emissions



Test_Graph_LE1M_ANT1_2480_1Mbps_Reference Level



Test_Graph_LE1M_ANT1_2480_1Mbps_Lower Band Emissions



Appendix F: Duty Cycle

Test Result

Test Mode	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
GFSK_1Mbps	2402	0.11	0.63	17.03	7.69
GFSK_1Mbps	2440	0.11	0.63	17.03	7.69
GFSK_1Mbps	2480	0.11	0.62	17.06	7.68

Test Graphs

