

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Heart Rate Armband T325

Trade Mark: TAKE

Test Model: T325

FCC ID: 2BNXRT325

Environmental Conditions

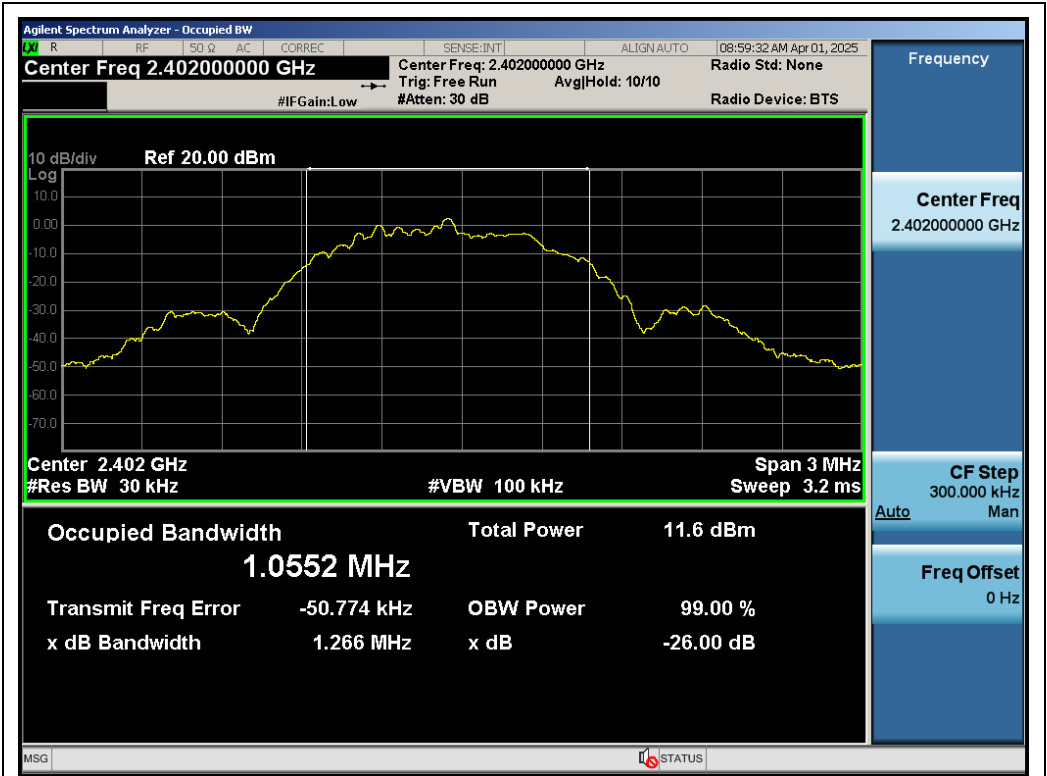
Temperature:	25°C
Relative Humidity:	45%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: DTS Bandwidth & Occupied Channel Bandwidth

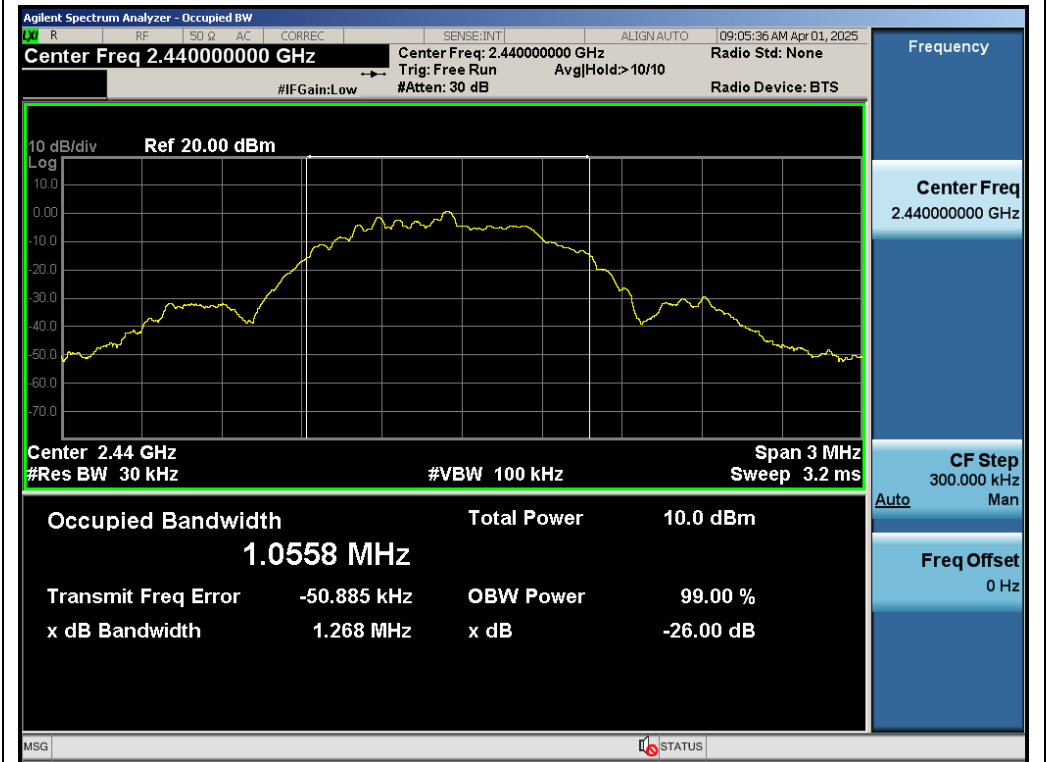
Test Result

Test Mode	Test Frequency	Occupied Bandwidth (MHz)	DTS BW (MHz)	DTS BW Limits	Pass or Fail
GFSK_1Mbps	2402	1.055	0.700	≥ 0.5	Pass
	2440	1.056	0.705	≥ 0.5	Pass
	2480	1.057	0.704	≥ 0.5	Pass

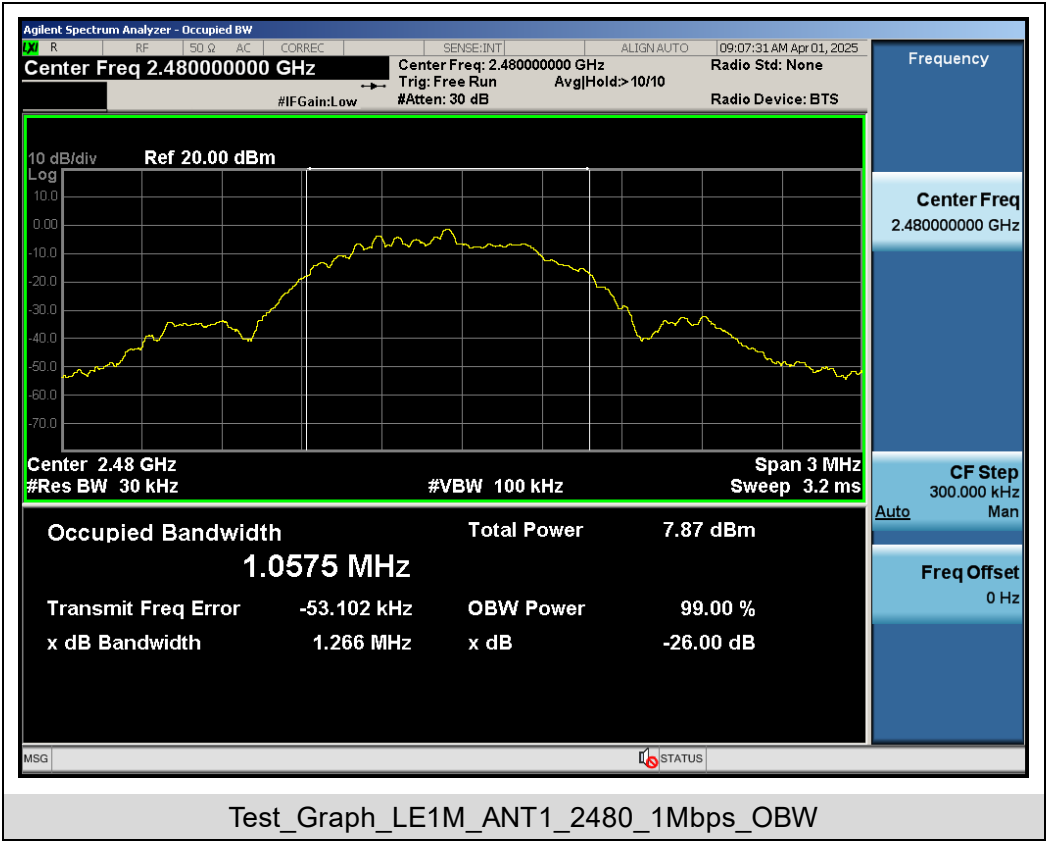
Test Graphs

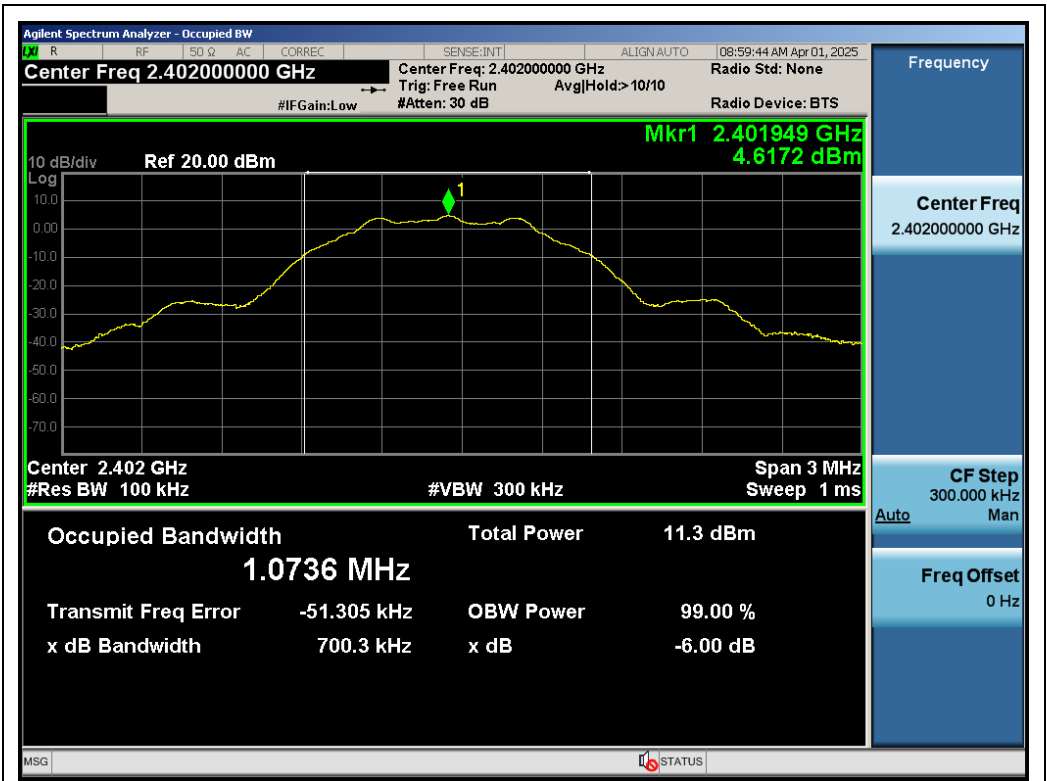


Test_Graph_LE1M_ANT1_2402_1Mbps_OBW

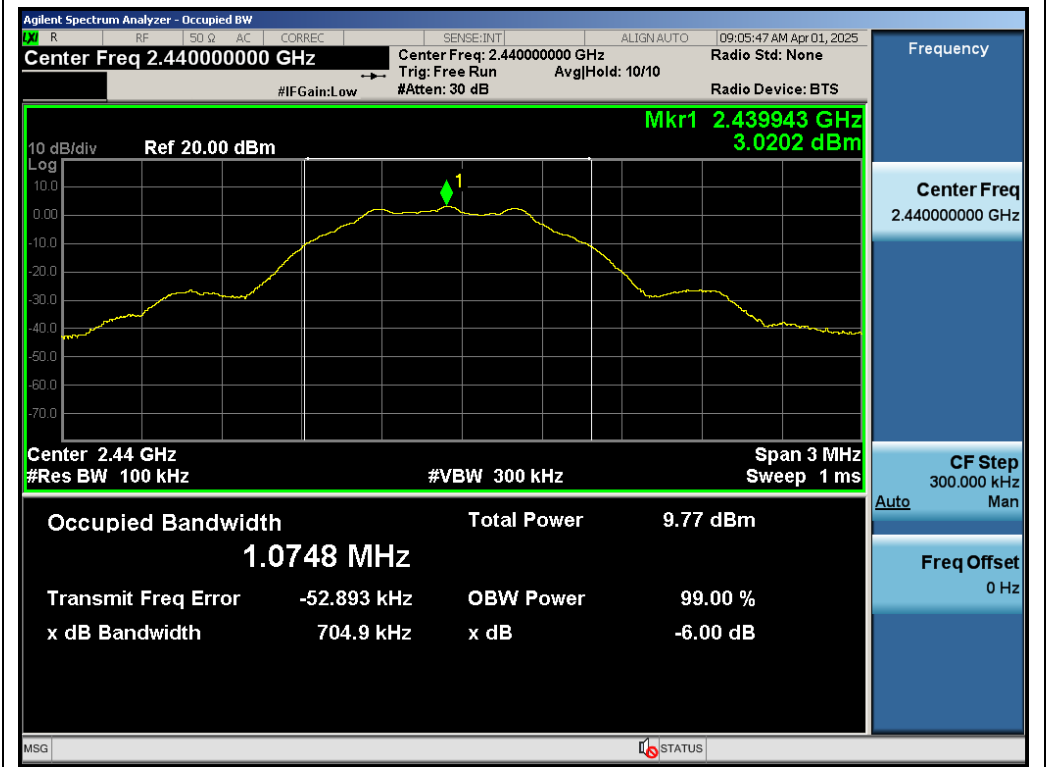


Test_Graph_LE1M_ANT1_2440_1Mbps_OBW

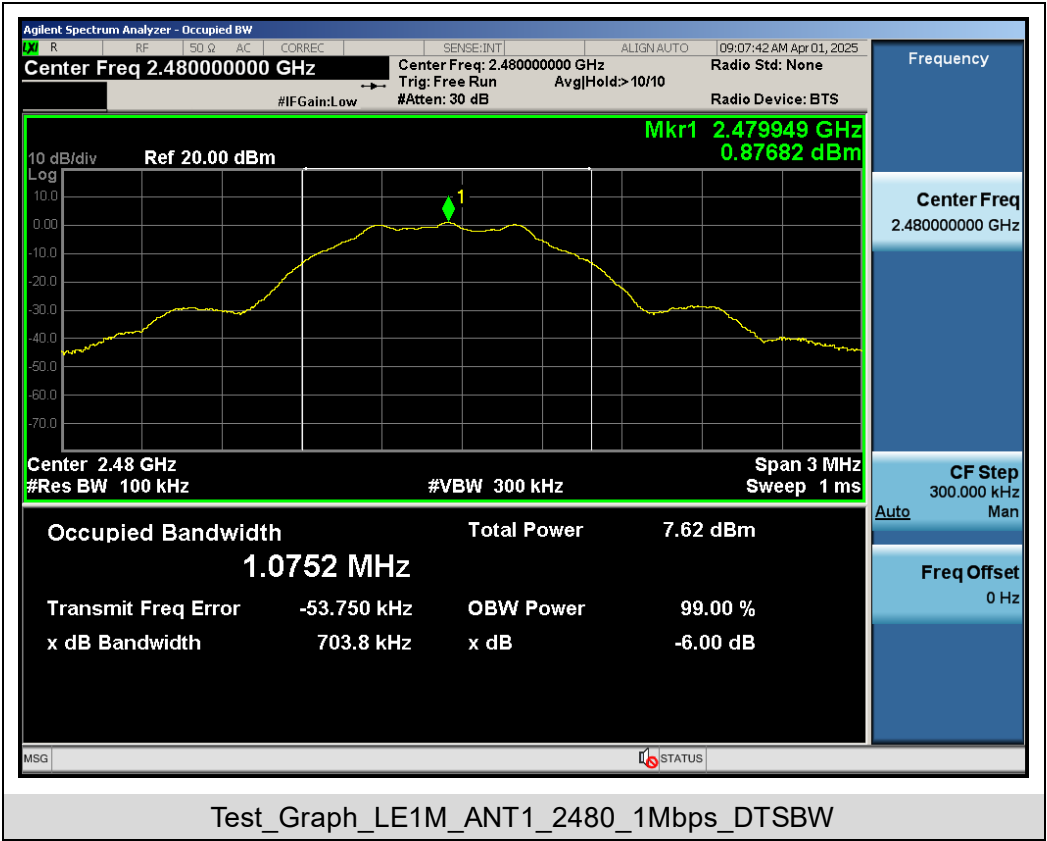




Test_Graph_LE1M_ANT1_2402_1Mbps_DTSBW



Test_Graph_LE1M_ANT1_2440_1Mbps_DTSBW

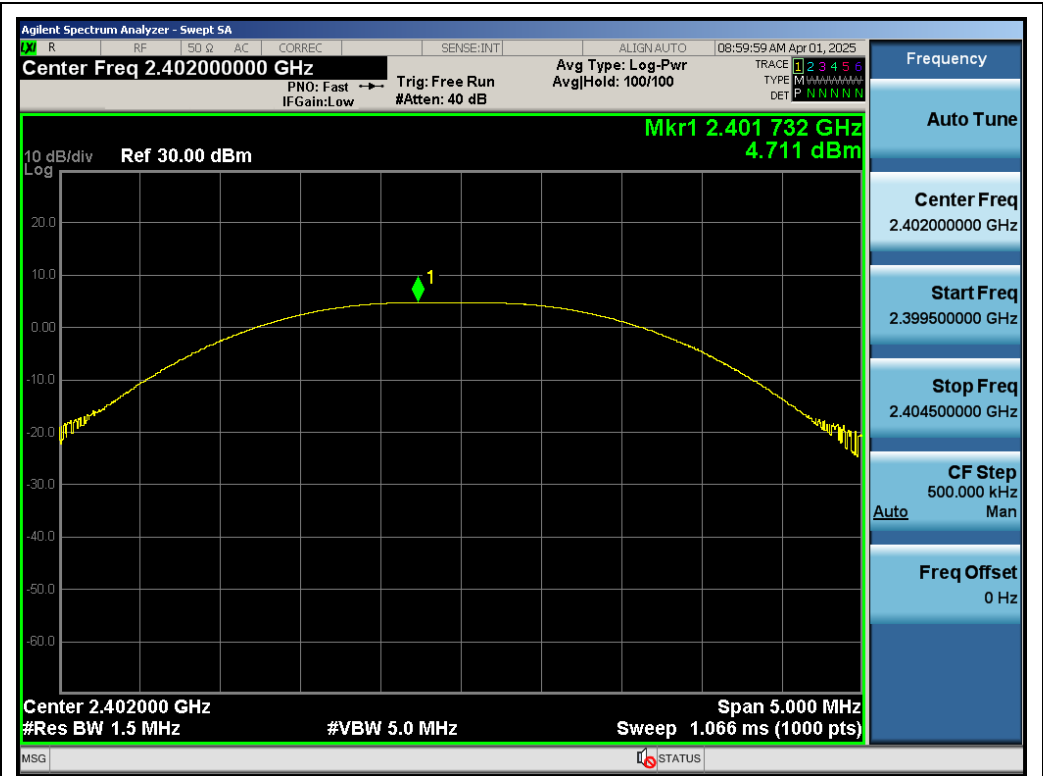


Appendix B: Maximum peak conducted output power

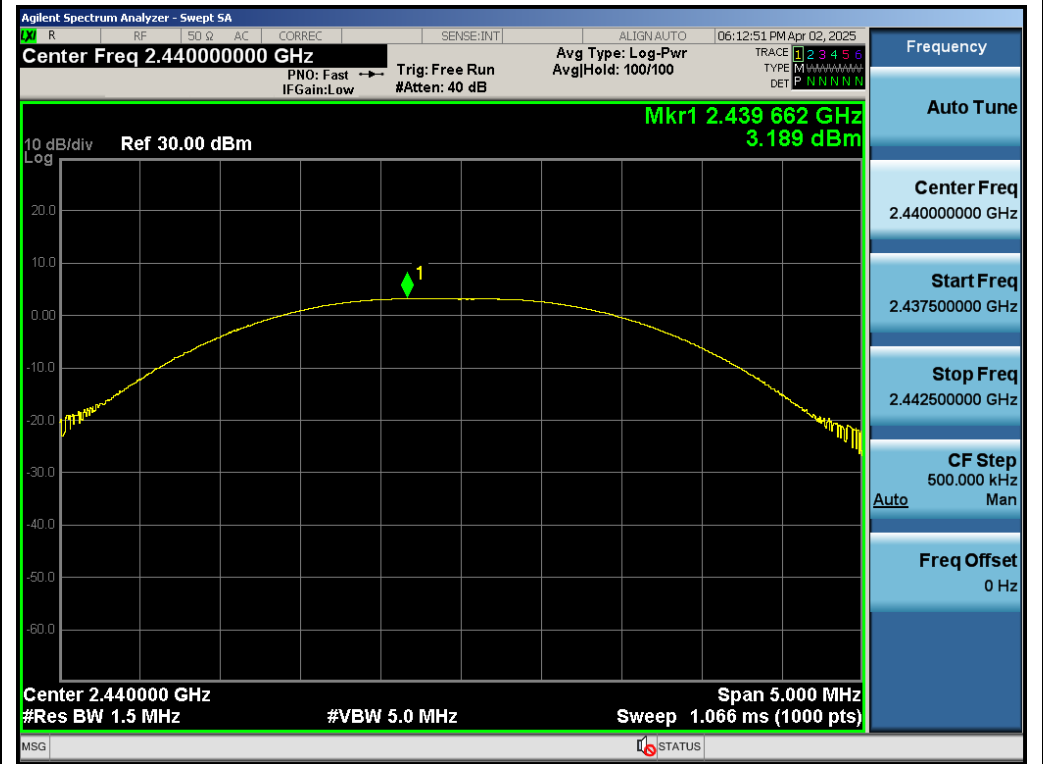
Test Result Peak

Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK_1Mbps	2402	4.711	≤ 30	Pass
	2440	3.189	≤ 30	Pass
	2480	0.975	≤ 30	Pass

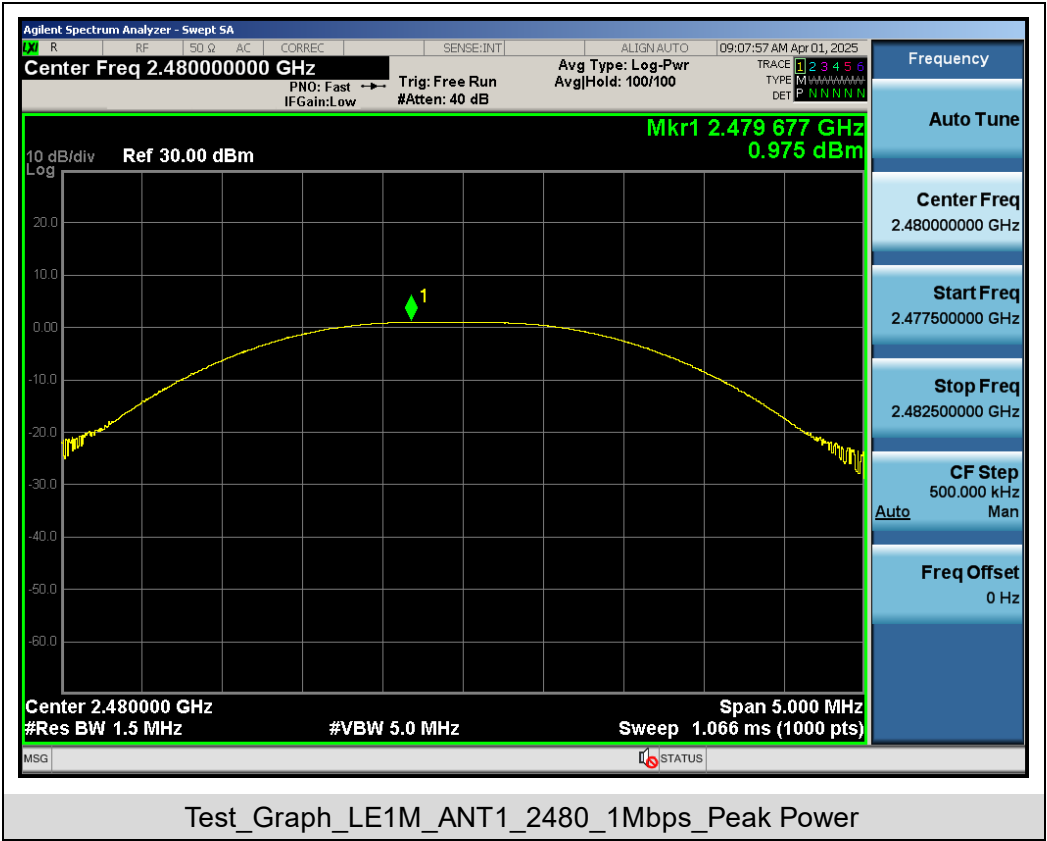
Test Graphs Peak



Test_Graph_LE1M_ANT1_2402_1Mbps_Peak Power



Test_Graph_LE1M_ANT1_2440_1Mbps_Peak Power

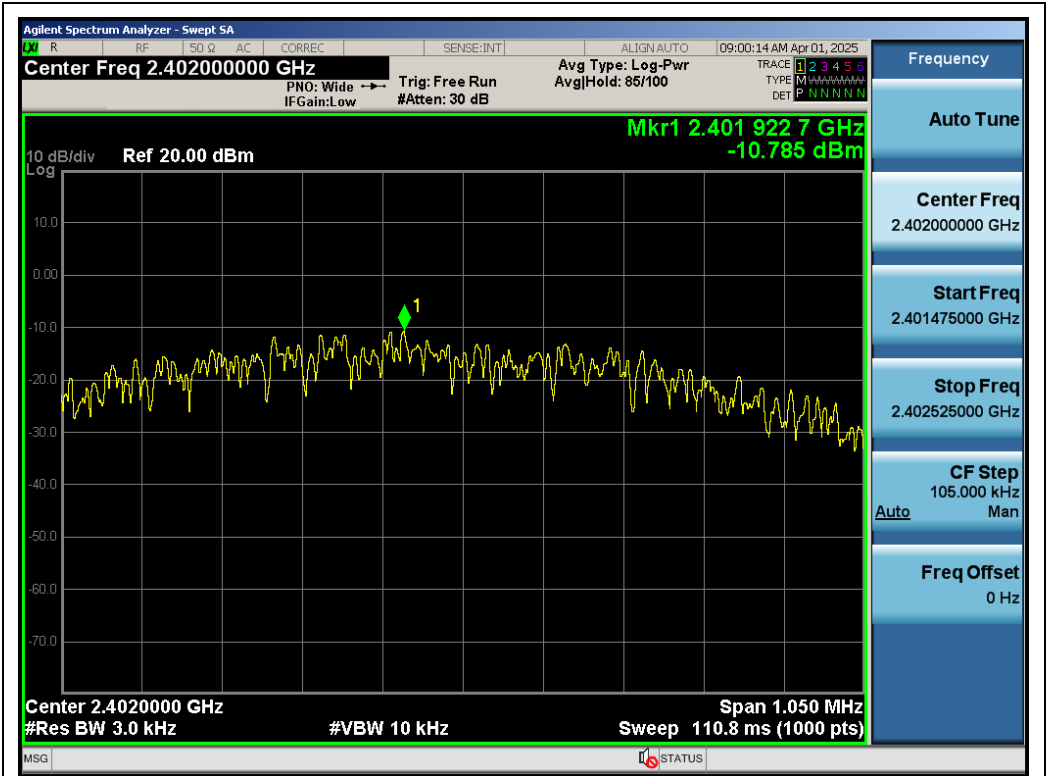


Appendix C: Maximum peak power spectral density

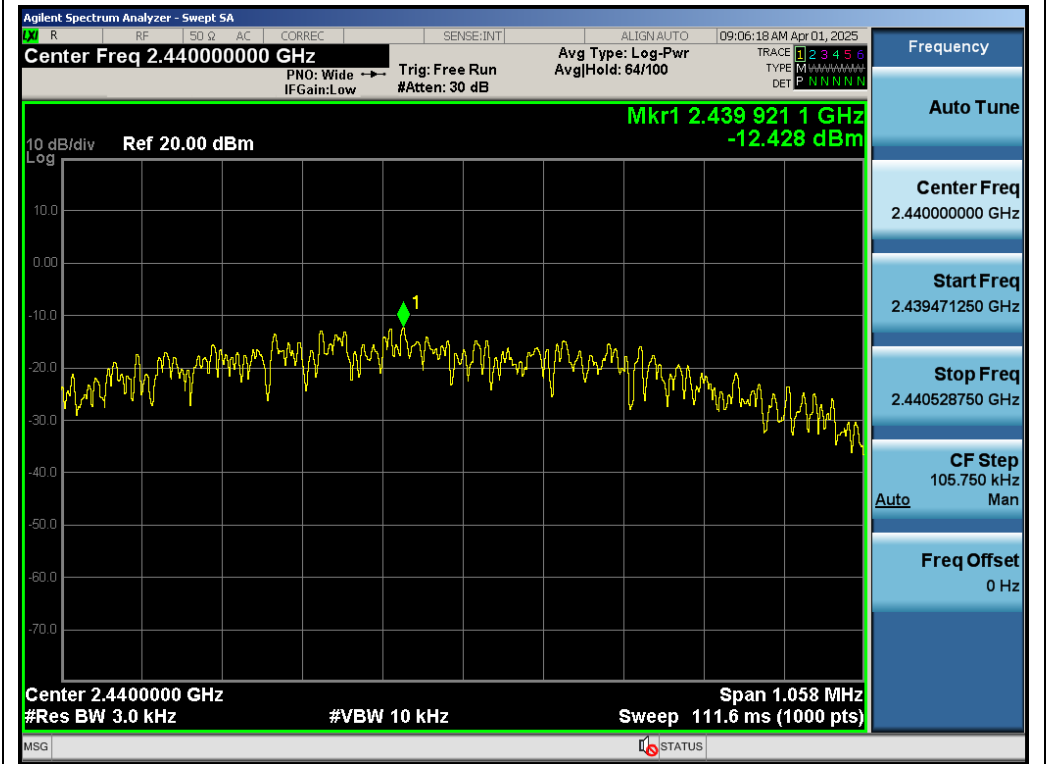
Test Result

Test Mode	Test Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK_1Mbps	2402	-10.785	≤ 8	Pass
	2440	-12.428	≤ 8	Pass
	2480	-14.512	≤ 8	Pass

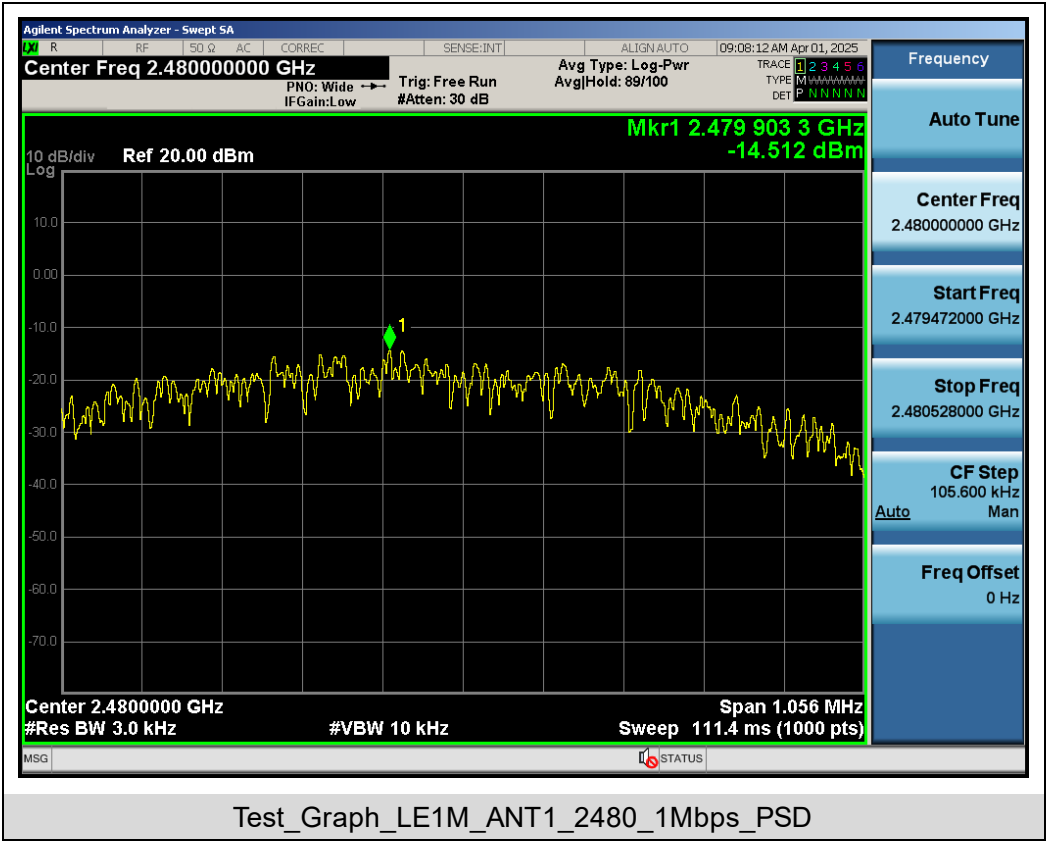
Test Graphs



Test_Graph_LE1M_ANT1_2402_1Mbps_PSD



Test_Graph_LE1M_ANT1_2440_1Mbps_PSD

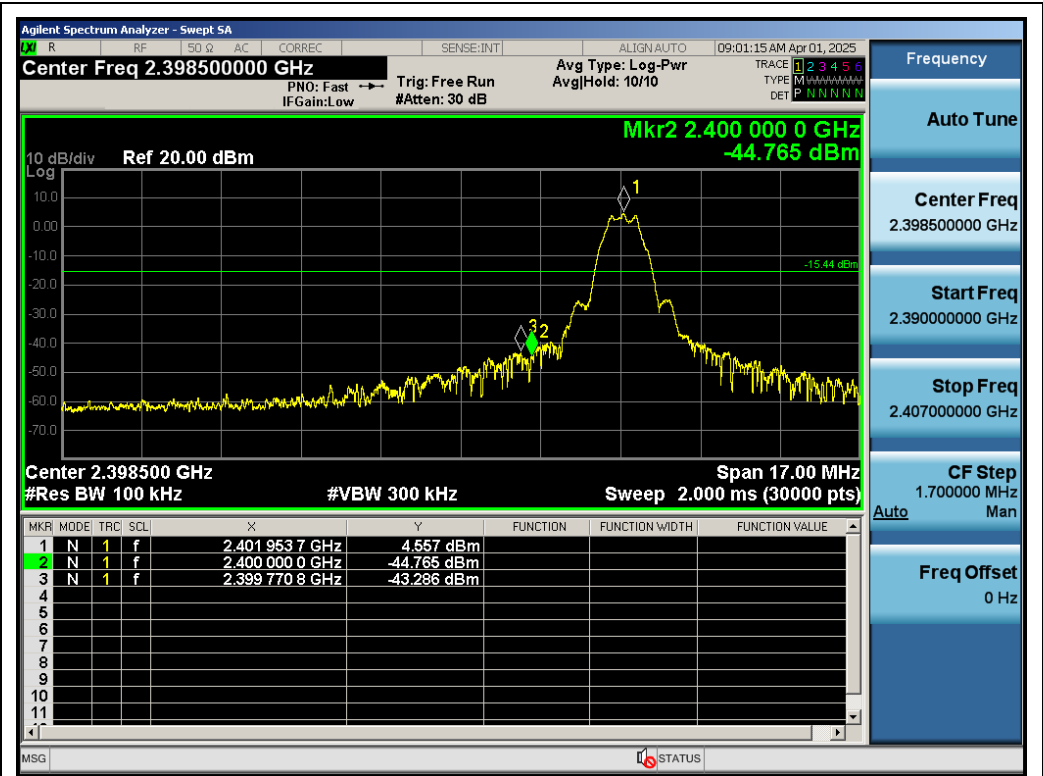


Appendix D: Band edge measurements

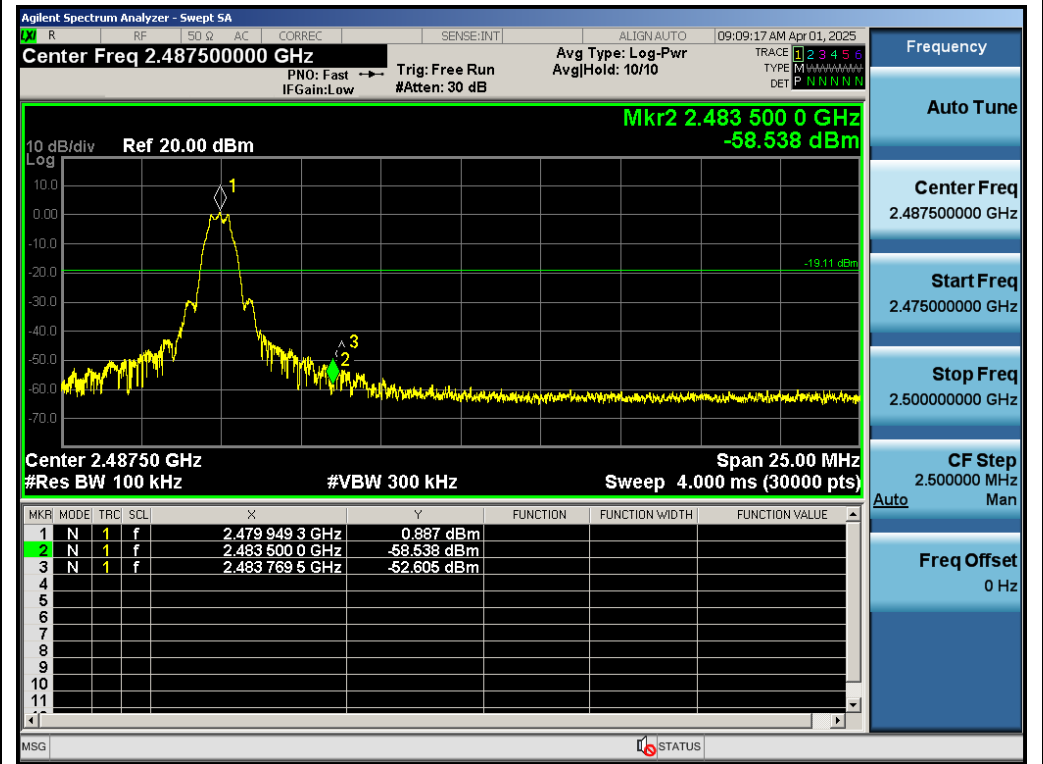
Test Result

Test Mode	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
GFSK_1Mbps	Low	2402	4.557	-44.765	≤ -15.44	Pass
GFSK_1Mbps	High	2480	0.887	-58.538	≤ -19.11	Pass

Test Graphs



Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Edge Emissions



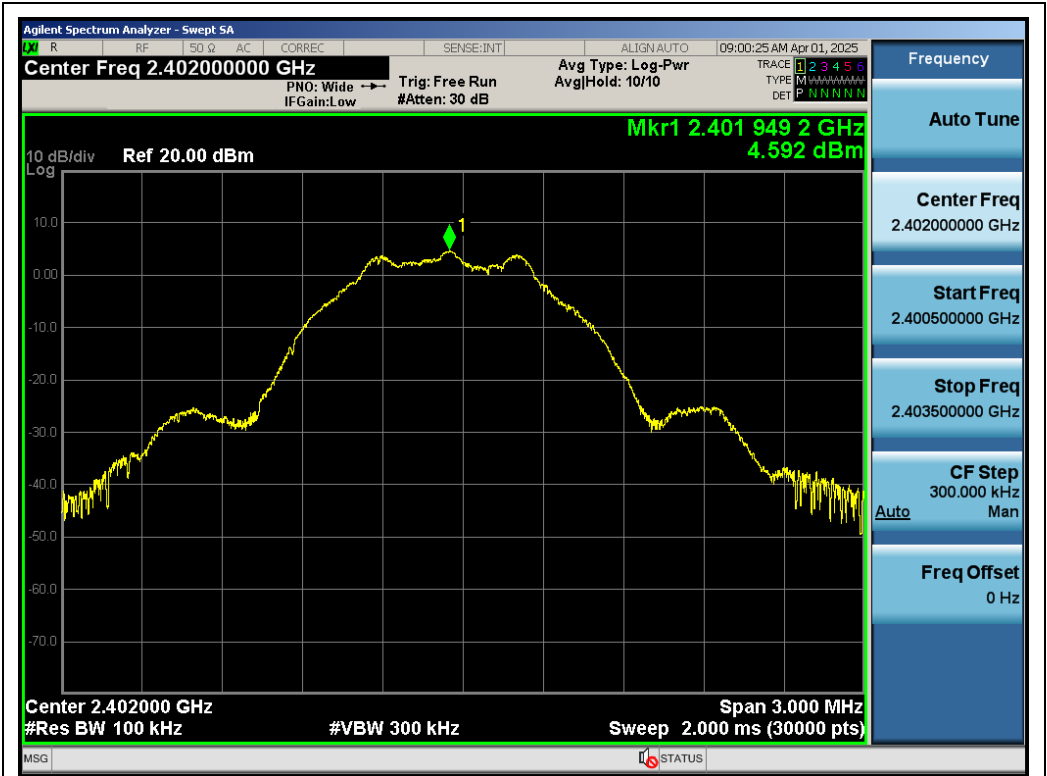
Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Edge Emissions

Appendix E: Conducted Spurious Emission

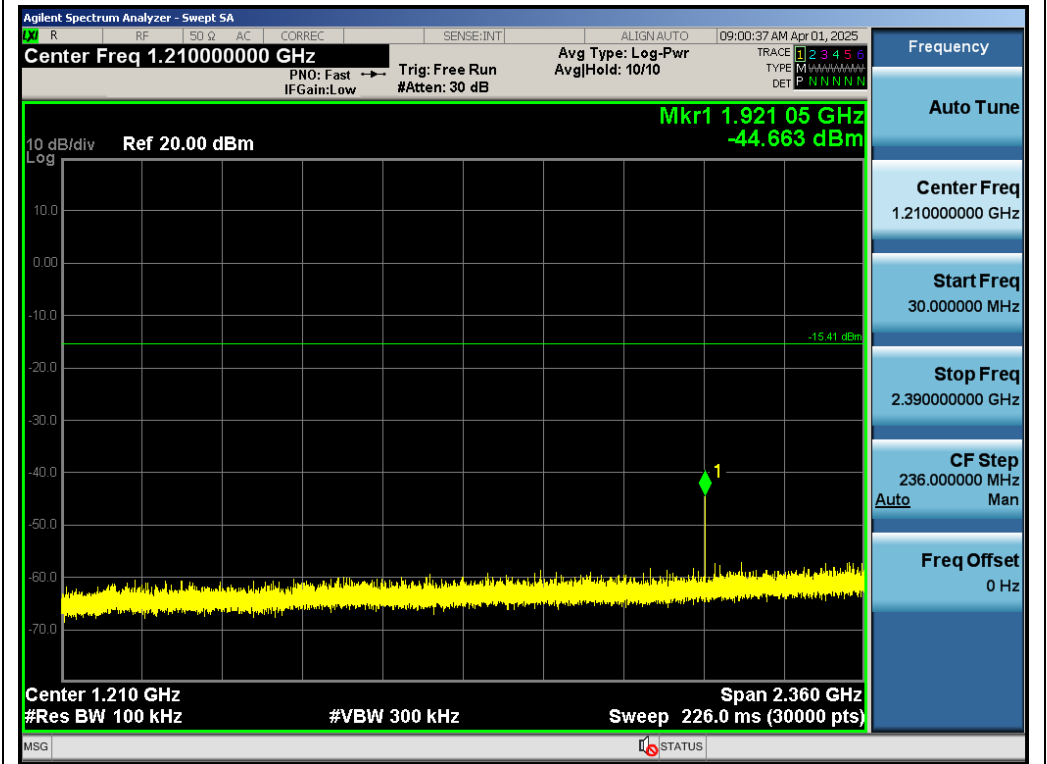
Test Result

Test Mode	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
GFSK_1Mbps	2402	0~Reference	4.592	4.592	---	Pass
GFSK_1Mbps	2402	30~2390	4.592	-44.663	≤ -15.41	Pass
GFSK_1Mbps	2402	2483.5~25000	4.592	-48.821	≤ -15.41	Pass
GFSK_1Mbps	2440	0~Reference	3.019	3.019	---	Pass
GFSK_1Mbps	2440	30~2400	3.019	-56.240	≤ -16.98	Pass
GFSK_1Mbps	2440	2483.5~25000	3.019	-48.407	≤ -16.98	Pass
GFSK_1Mbps	2480	0~Reference	0.858	0.858	---	Pass
GFSK_1Mbps	2480	30~2400	0.858	-40.980	≤ -19.14	Pass
GFSK_1Mbps	2480	2500~26500	0.858	-49.132	≤ -19.14	Pass

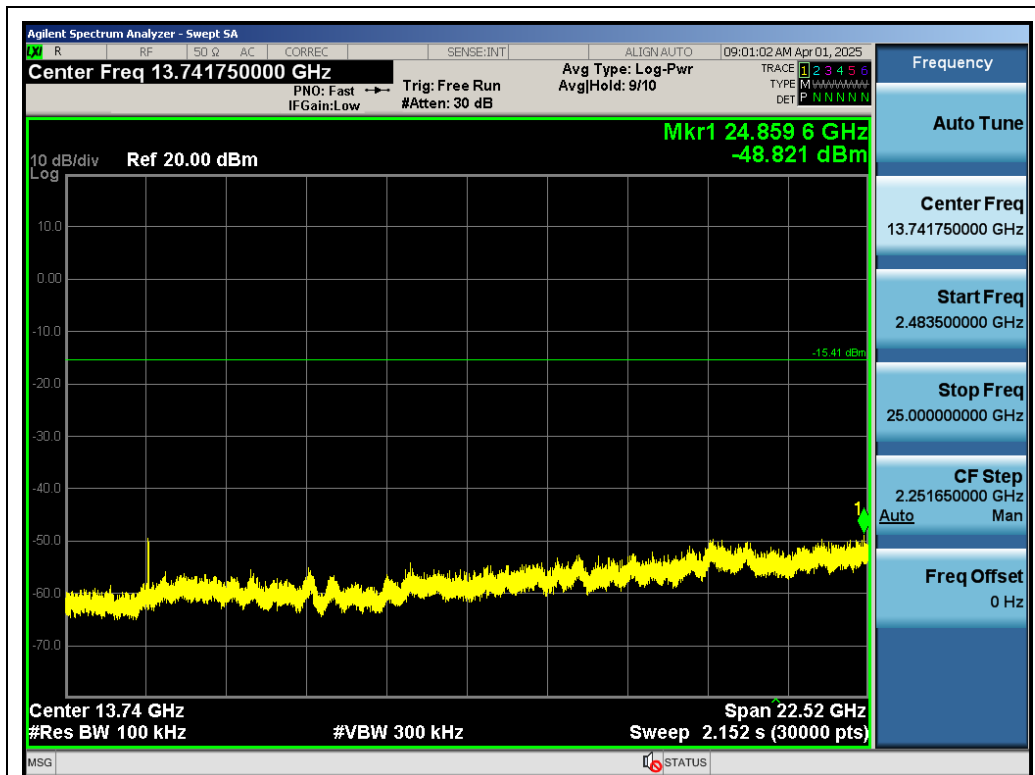
Test Graphs



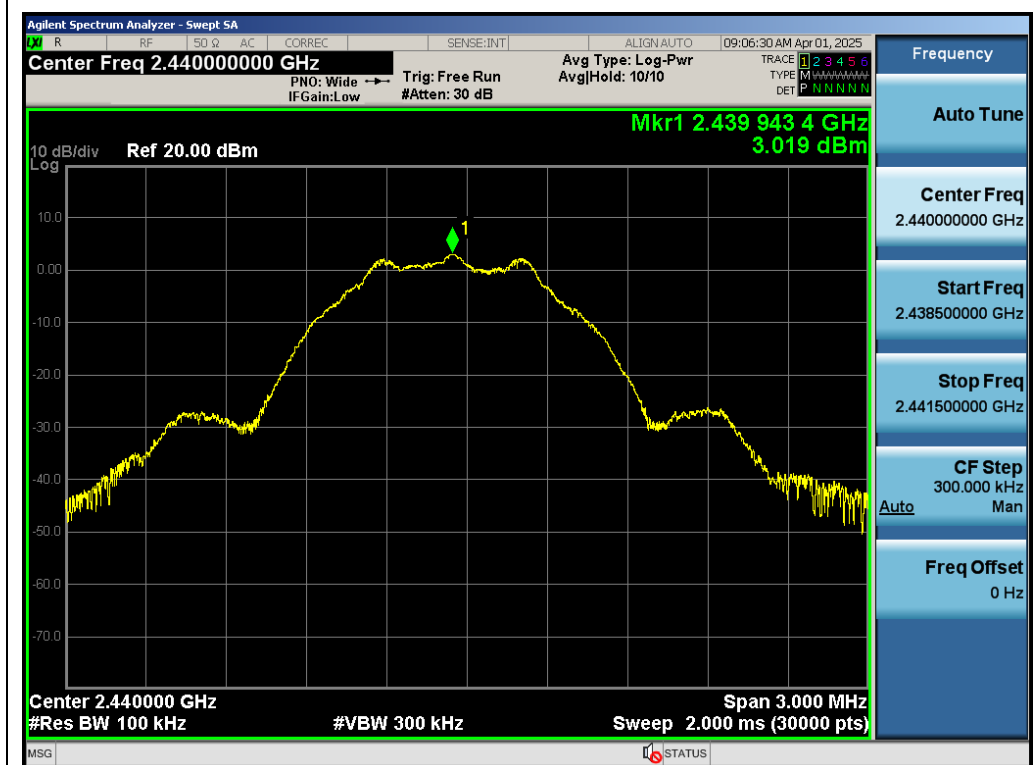
Test_Graph_LE1M_ANT1_2402_1Mbps_Reference Level



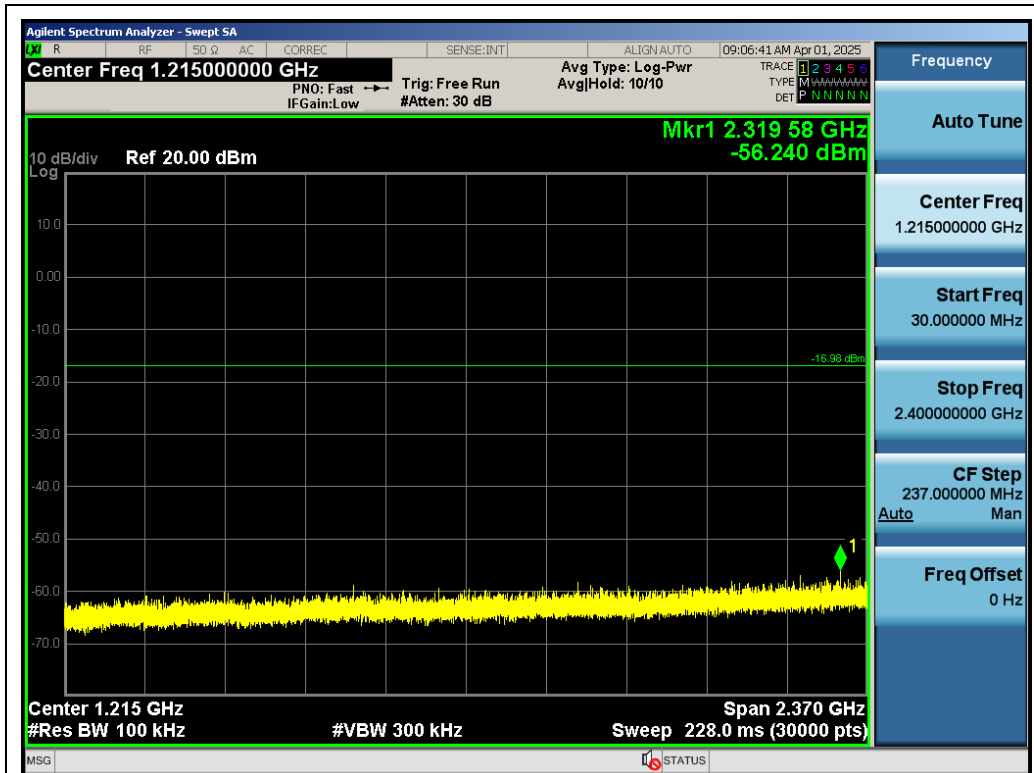
Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Emissions



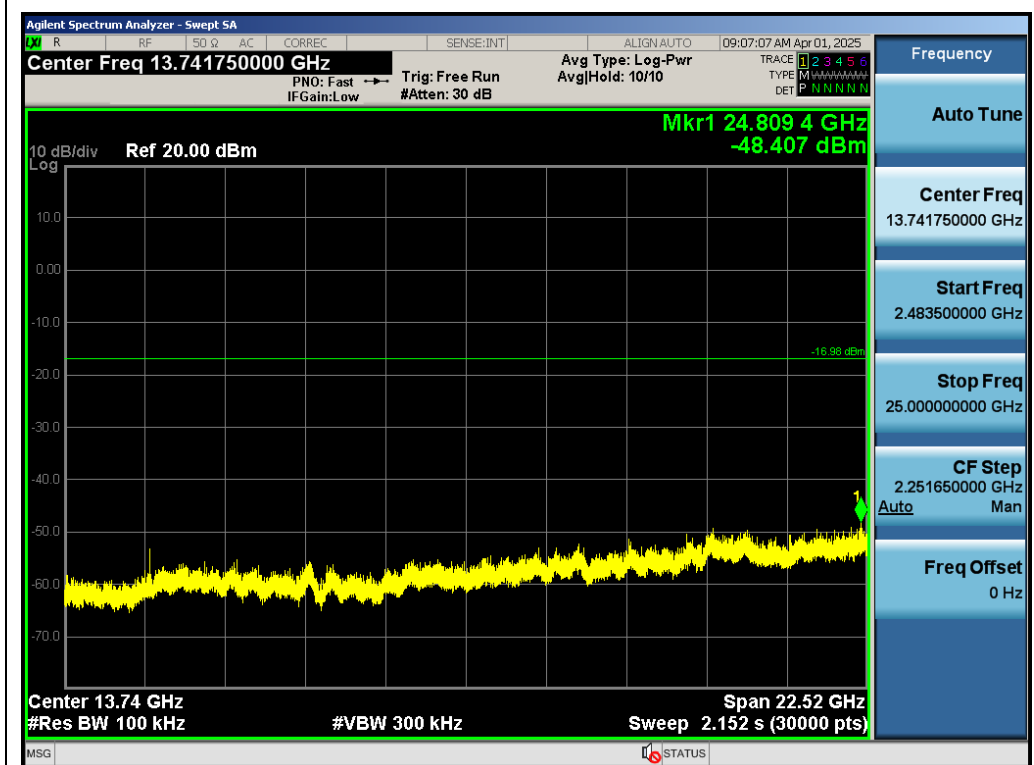
Test_Graph_LE1M_ANT1_2402_1Mbps_Higher Band Emissions



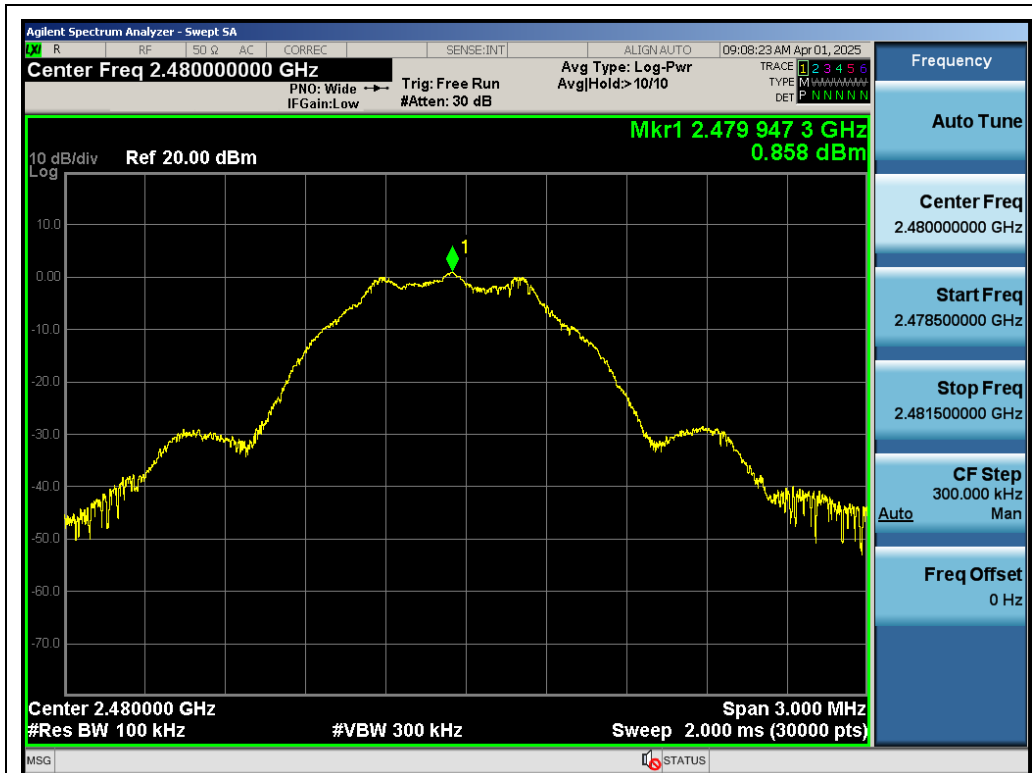
Test_Graph_LE1M_ANT1_2440_1Mbps_Reference Level



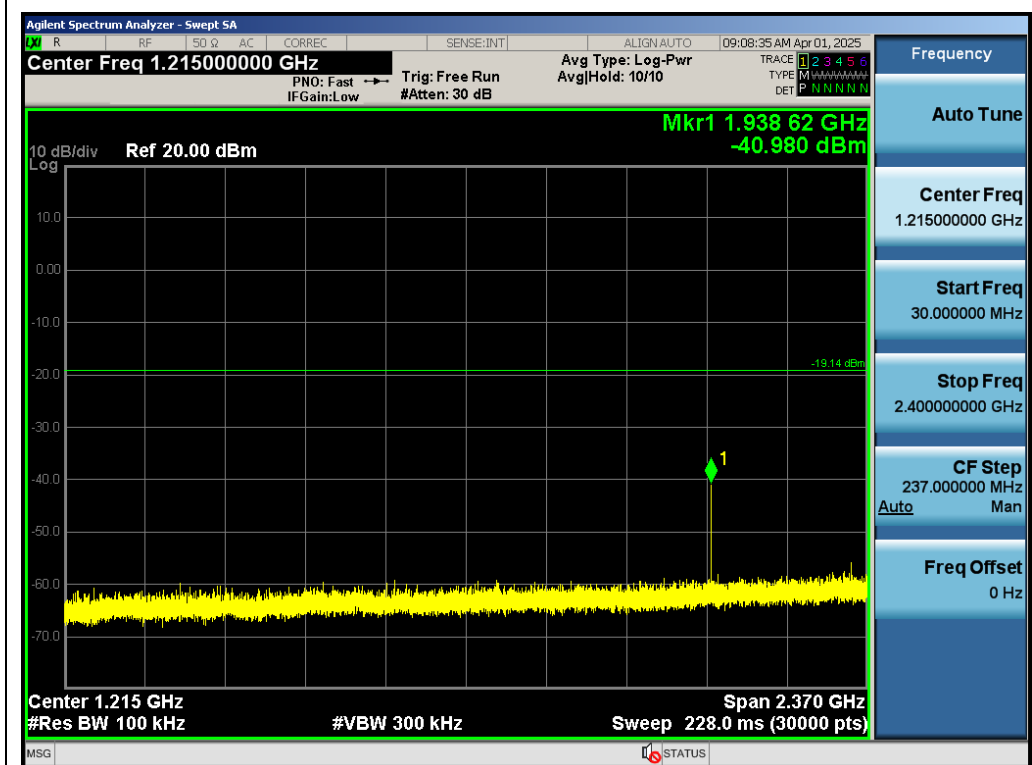
Test_Graph_LE1M_ANT1_2440_1Mbps_Lower Band Emissions



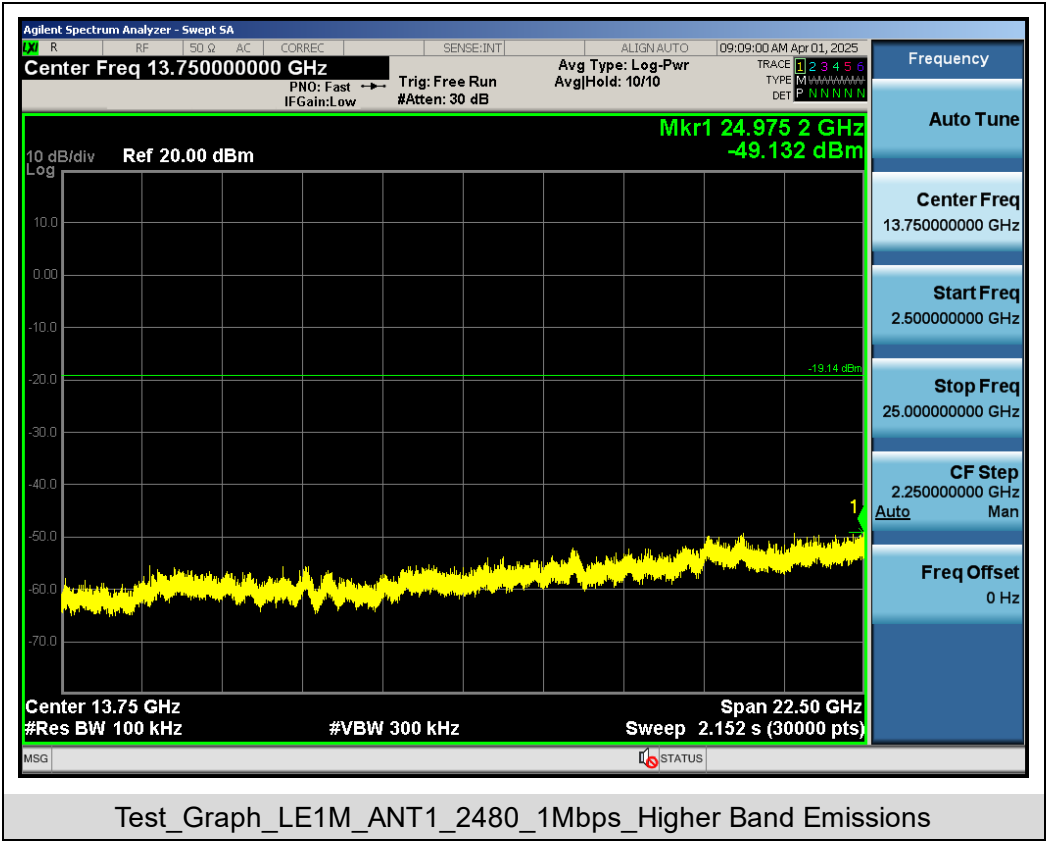
Test_Graph_LE1M_ANT1_2440_1Mbps_Higher Band Emissions



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	0.39	0.62	63.11	2.00
GFSK_1Mbps	2440	0.40	0.62	63.24	1.99
GFSK_1Mbps	2480	0.40	0.62	63.29	1.99

Test Graphs

