

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Headphone

Trade Mark: soundcore

Test Model: A6611

FCC ID: 2AOKB-A6611RC

Environmental Conditions

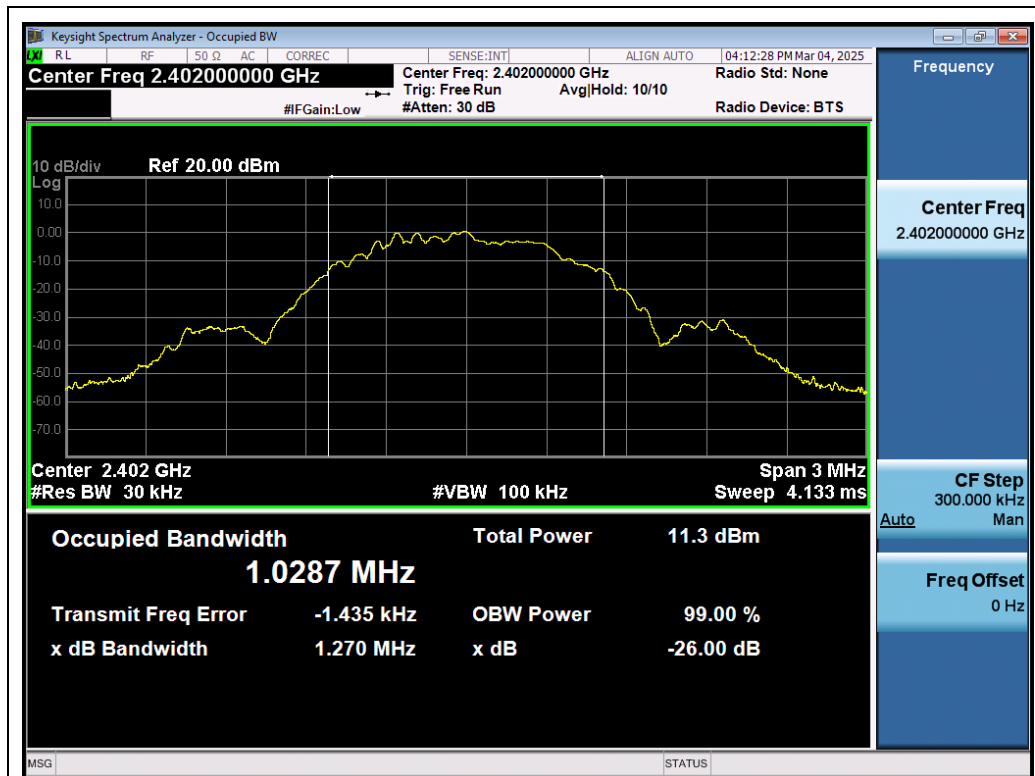
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

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	1.029	0.689	≥ 0.5	Pass
	2440	1.028	0.679	≥ 0.5	Pass
	2480	1.026	0.679	≥ 0.5	Pass
GFSK_2Mbps	2402	2.028	1.169	≥ 0.5	Pass
	2440	2.028	1.168	≥ 0.5	Pass
	2480	2.024	1.169	≥ 0.5	Pass

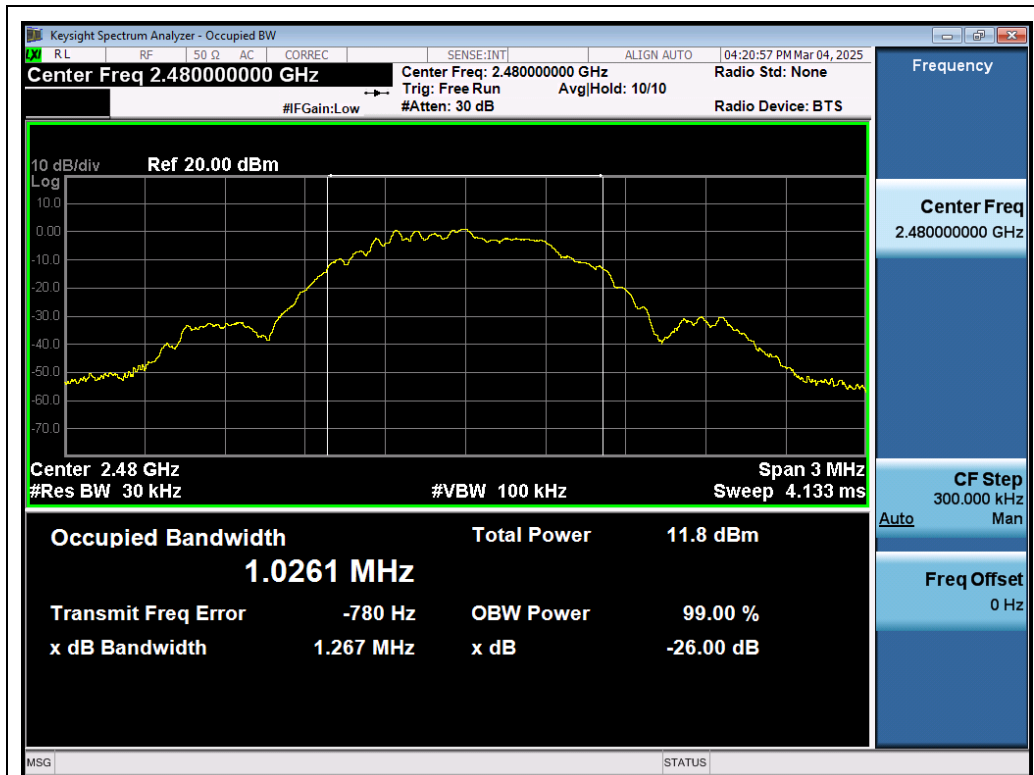
Test Graphs



Test_Graph_LE1M_ANT1_2402_1Mbps_OBW



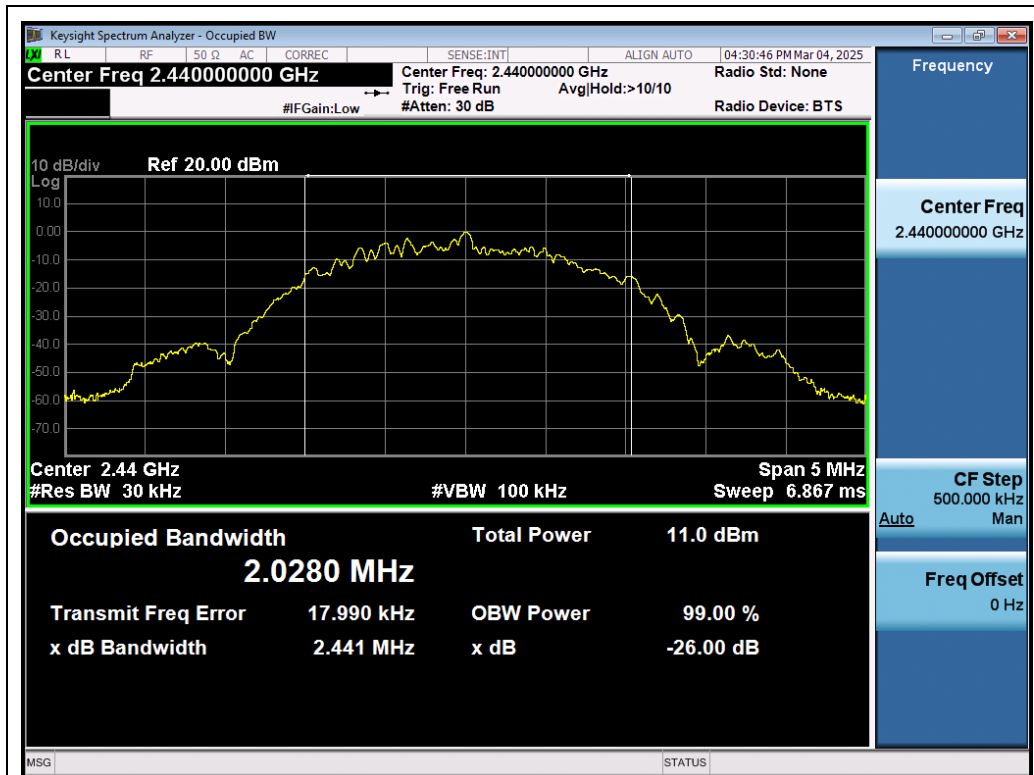
Test_Graph_LE1M_ANT1_2440_1Mbps_OBW



Test_Graph_LE1M_ANT1_2480_1Mbps_OBW



Test_Graph_LE2M_ANT1_2402_2Mbps_OBW



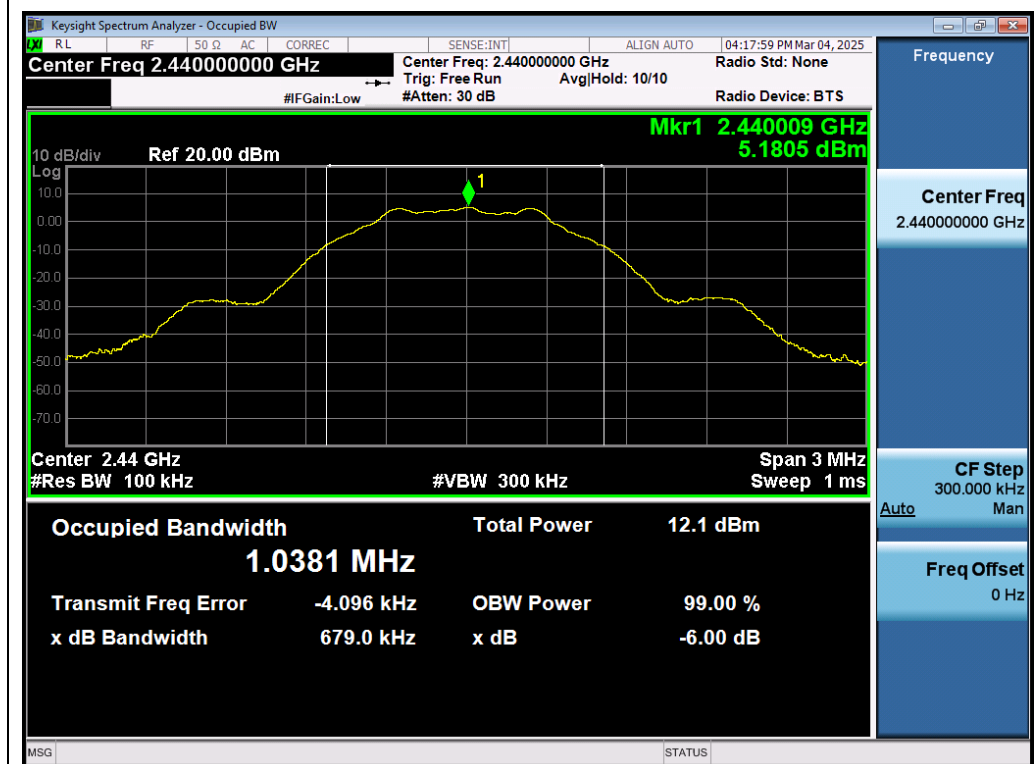
Test_Graph_LE2M_ANT1_2440_2Mbps_OBW



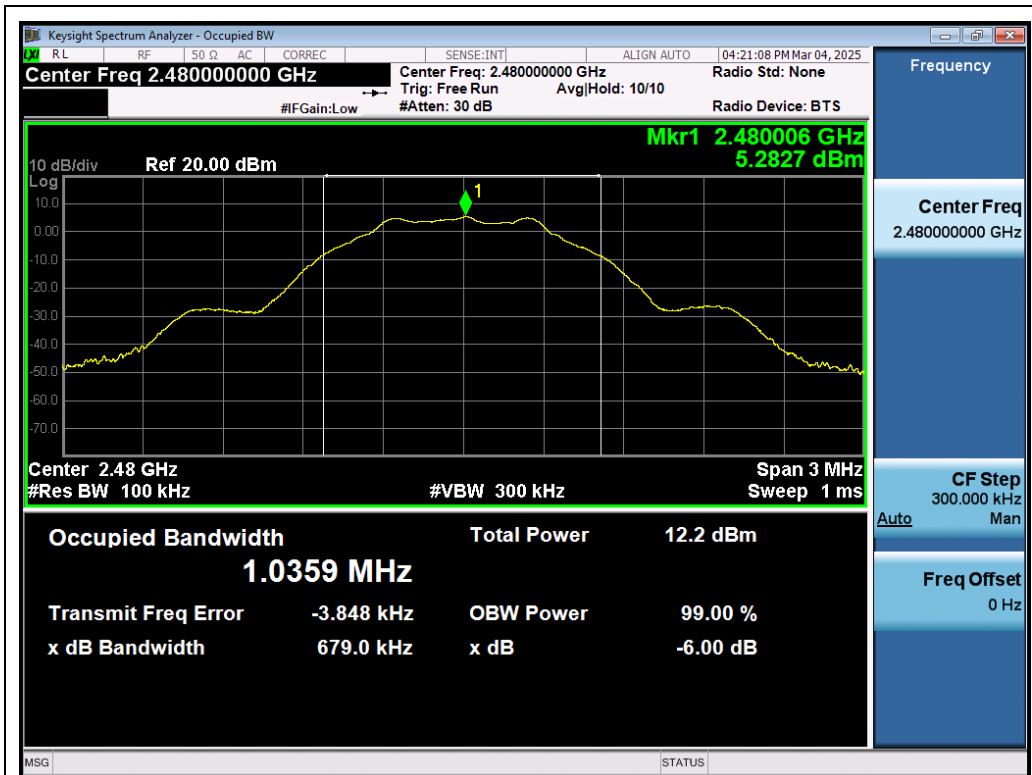
Test_Graph_LE2M_ANT1_2480_2Mbps_OBW



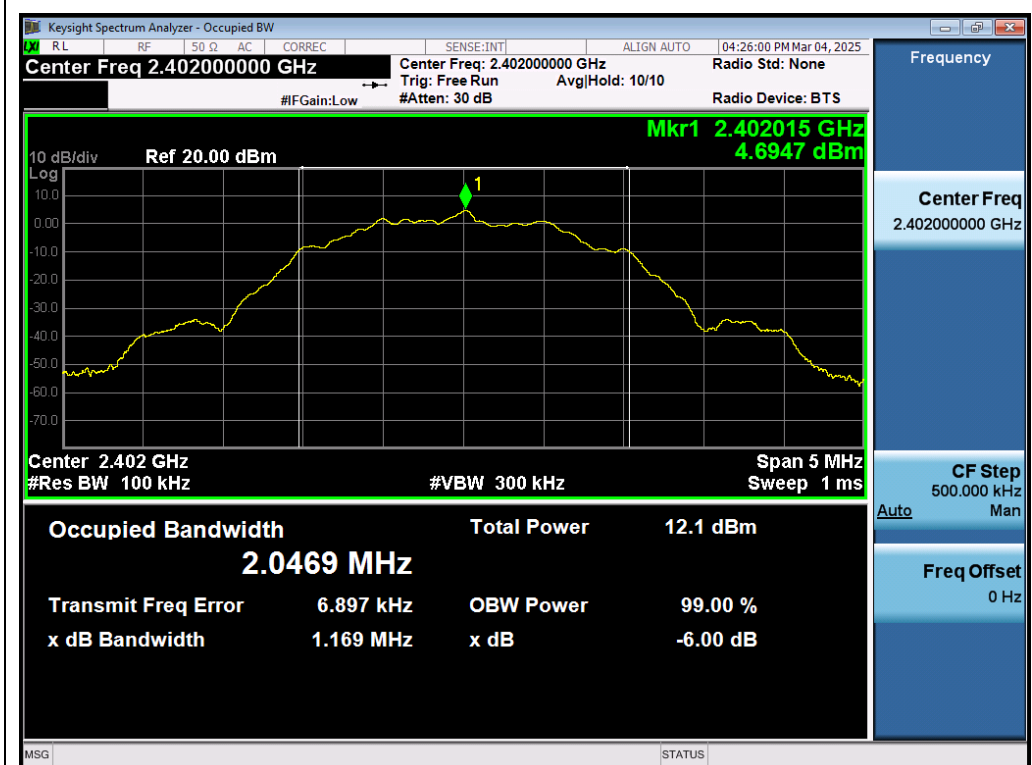
Test_Graph_LE1M_ANT1_2402_1Mbps_DTSBW



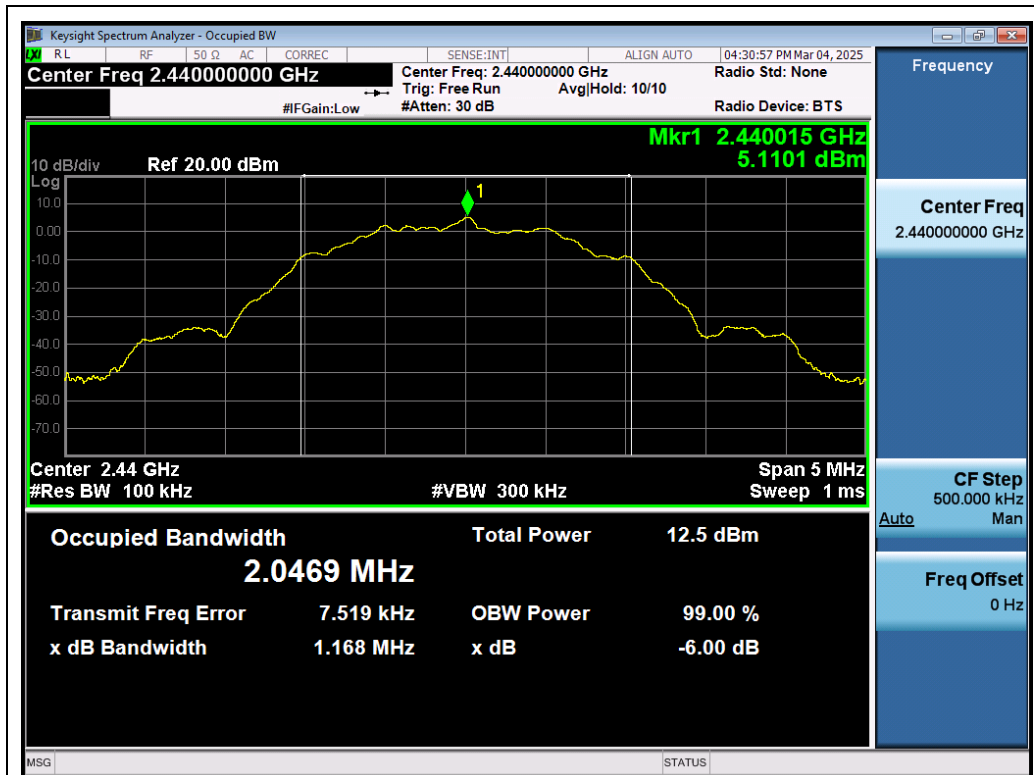
Test_Graph_LE1M_ANT1_2440_1Mbps_DTSBW



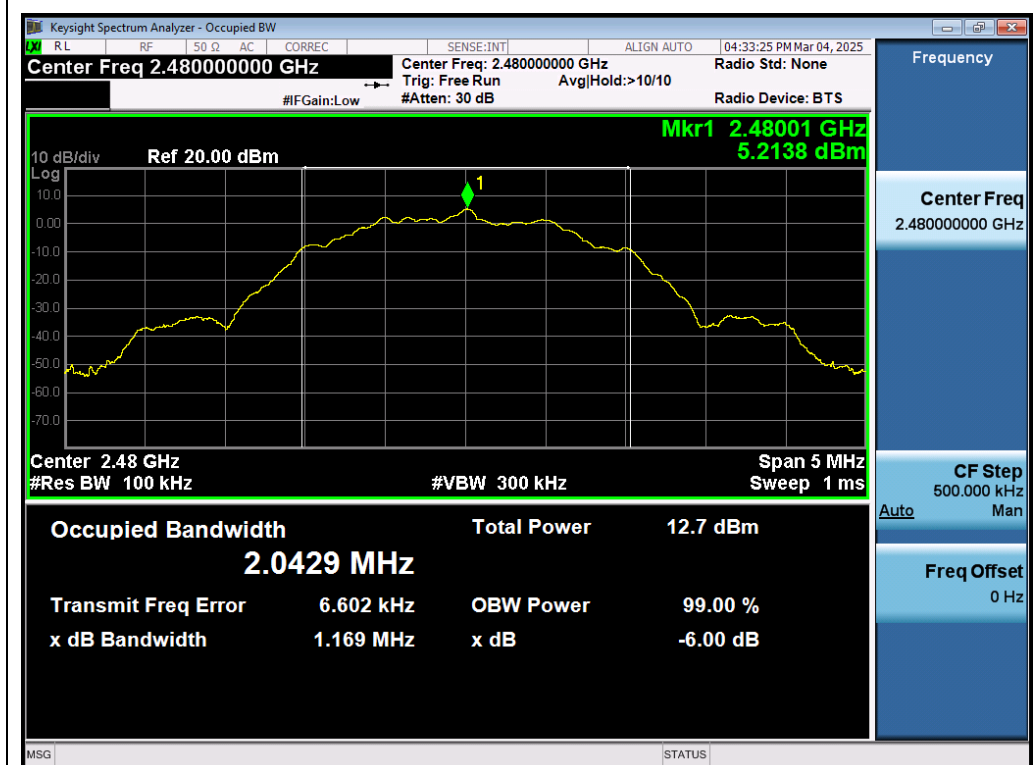
Test_Graph_LE1M_ANT1_2480_1Mbps_DTSBW



Test_Graph_LE2M_ANT1_2402_2Mbps_DTSBW



Test_Graph_LE2M_ANT1_2440_2Mbps_DTSBW



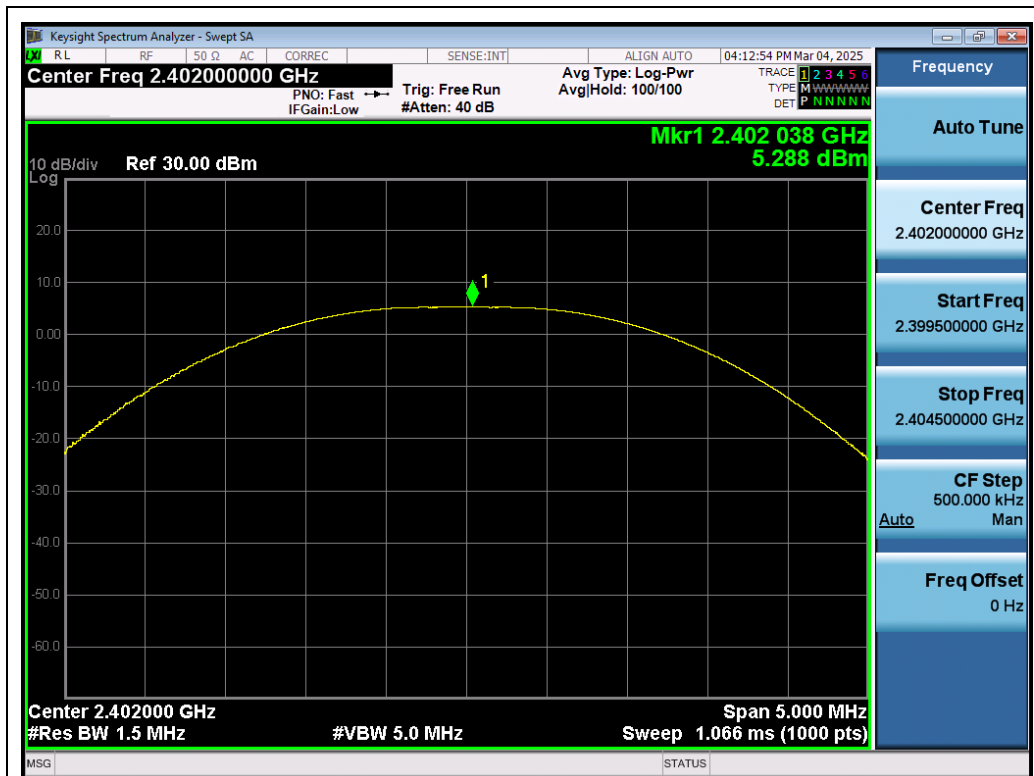
Test_Graph_LE2M_ANT1_2480_2Mbps_DTSBW

Appendix B: Maximum peak conducted output power

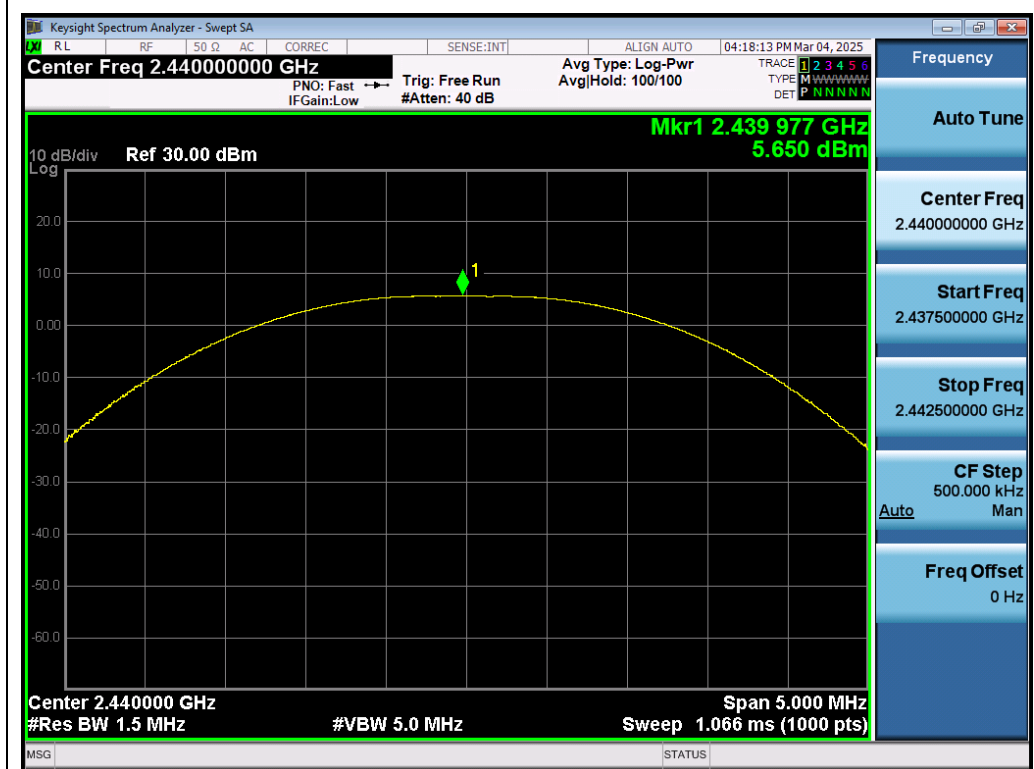
Test Result Peak

Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK_1Mbps	2402	5.288	≤ 30	Pass
	2440	5.650	≤ 30	Pass
	2480	5.689	≤ 30	Pass
GFSK_2Mbps	2402	5.325	≤ 30	Pass
	2440	5.716	≤ 30	Pass
	2480	5.730	≤ 30	Pass

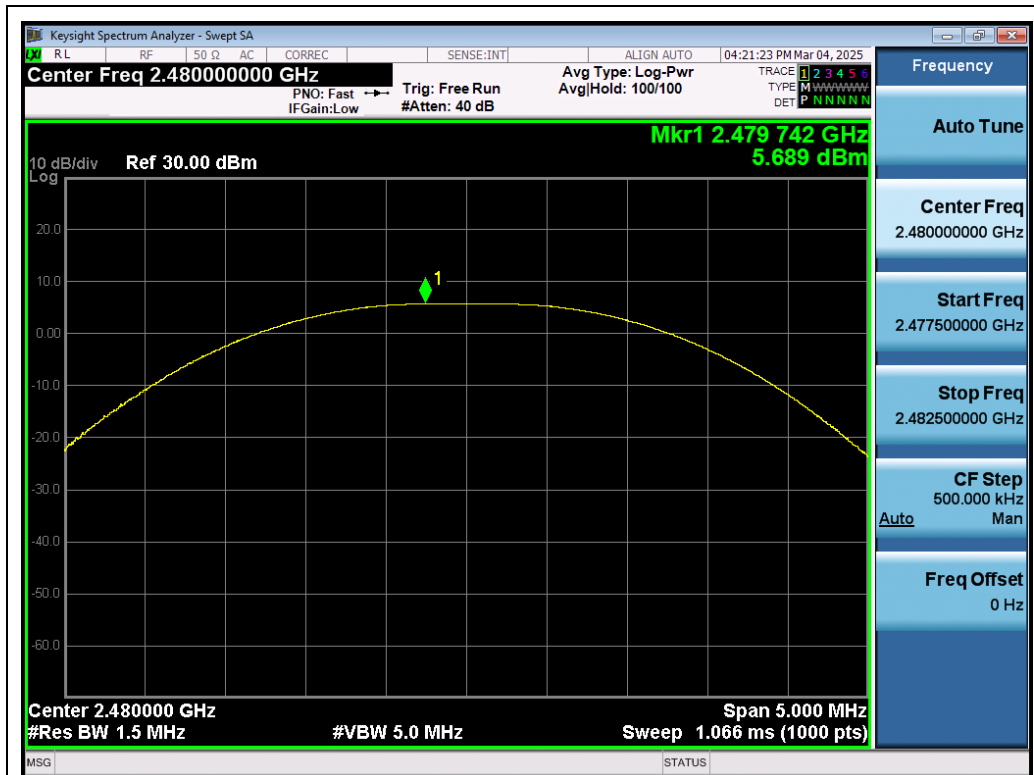
Test Graphs Peak



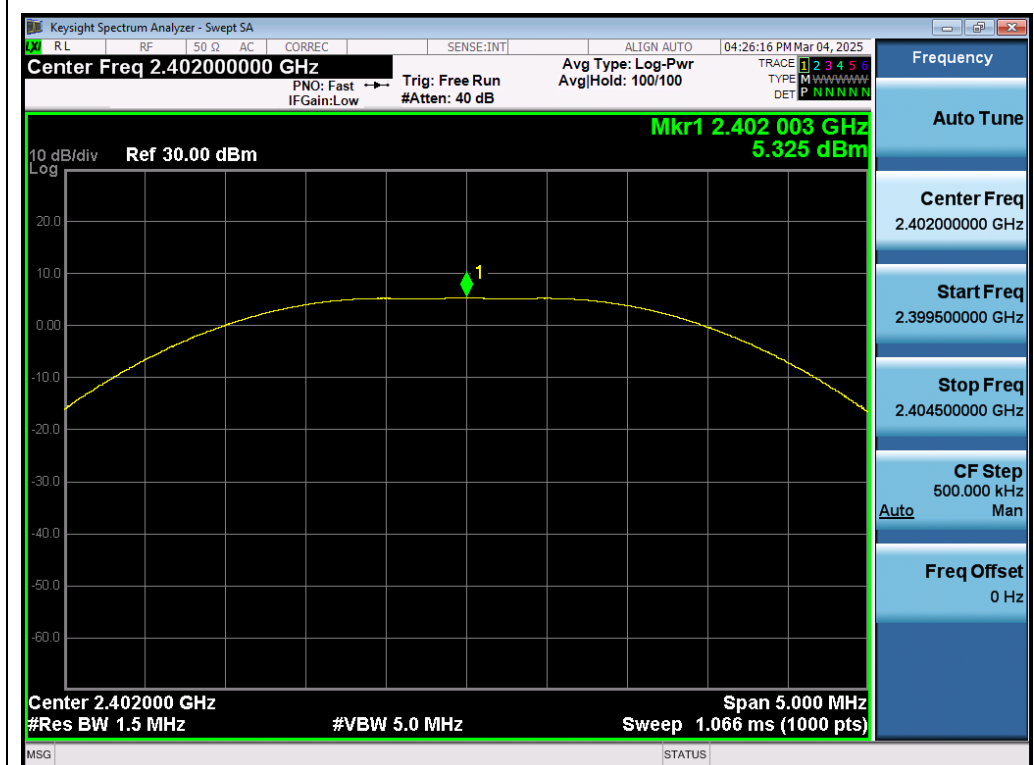
Test_Graph_LE1M_ANT1_2402_1Mbps_Peak Power



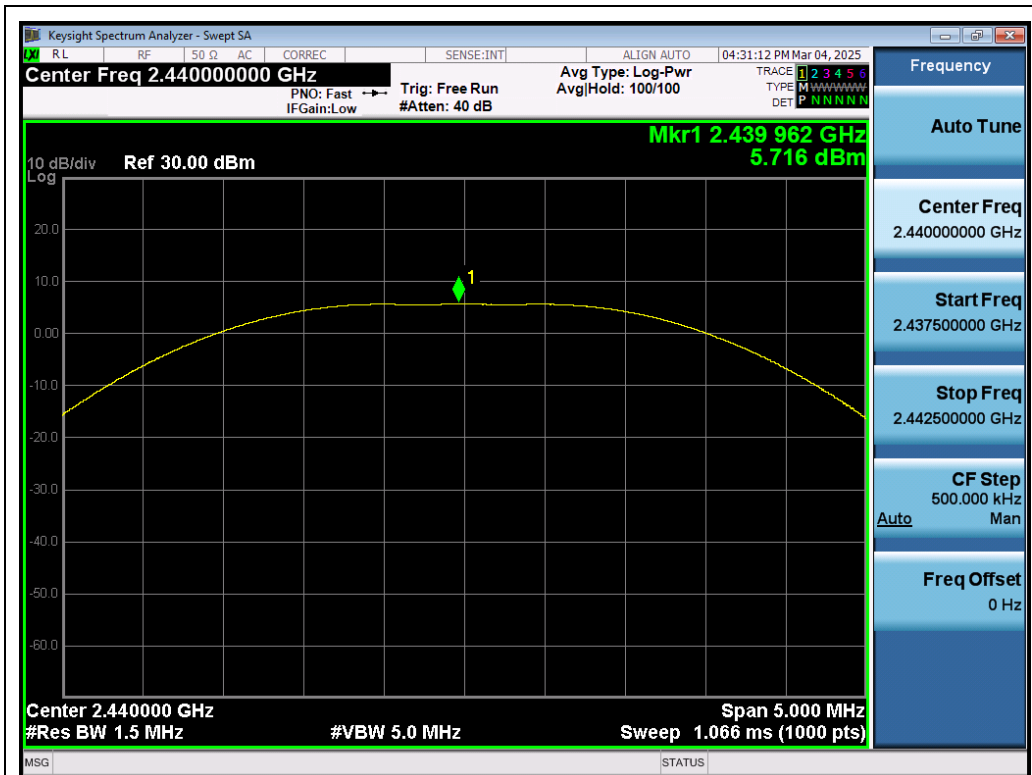
Test_Graph_LE1M_ANT1_2440_1Mbps_Peak Power



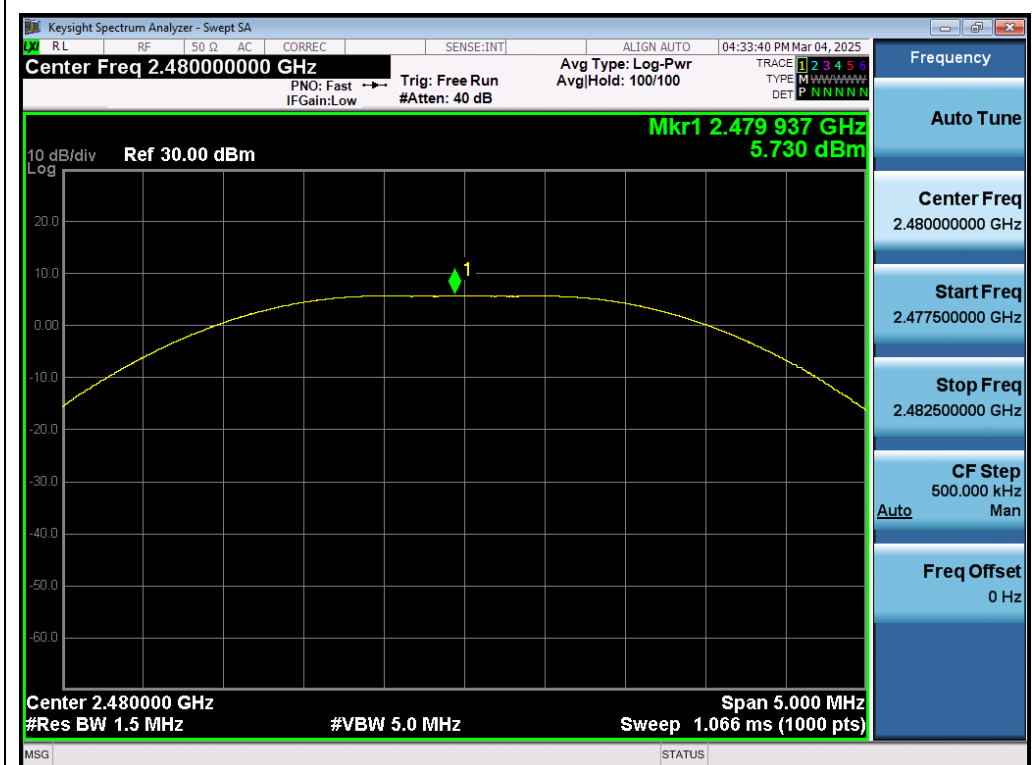
Test_Graph_LE1M_ANT1_2480_1Mbps_Peak Power



Test_Graph_LE2M_ANT1_2402_2Mbps_Peak Power



Test_Graph_LE2M_ANT1_2440_2Mbps_Peak Power



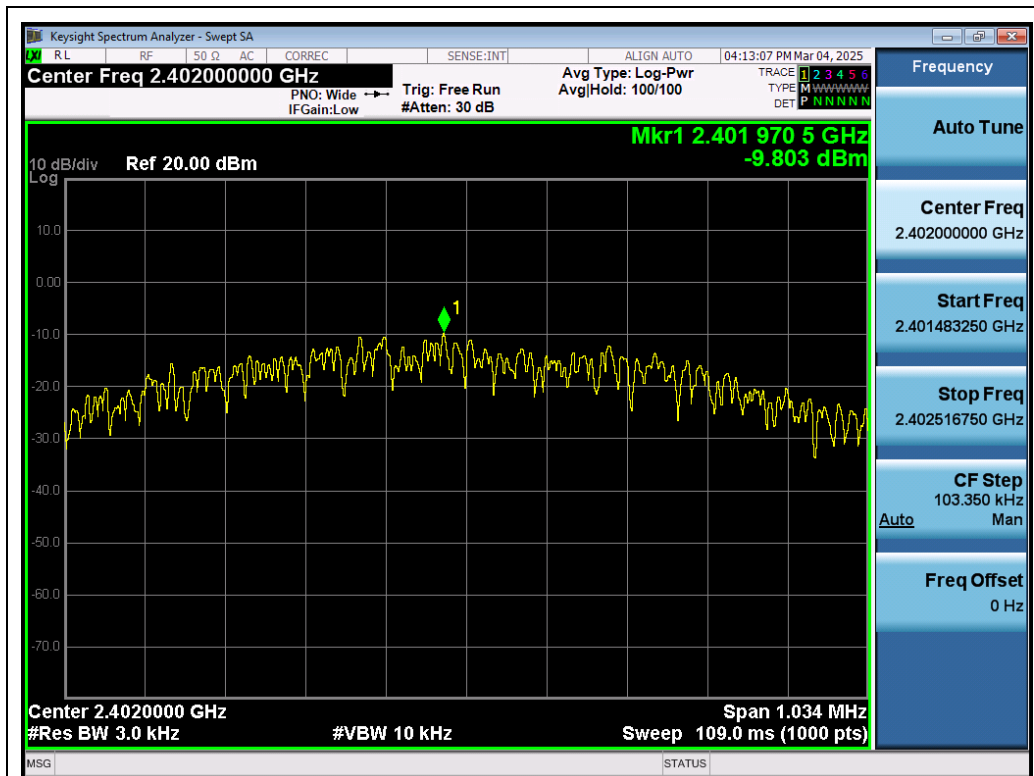
Test_Graph_LE2M_ANT1_2480_2Mbps_Peak Power

Appendix C: Maximum peak power spectral density

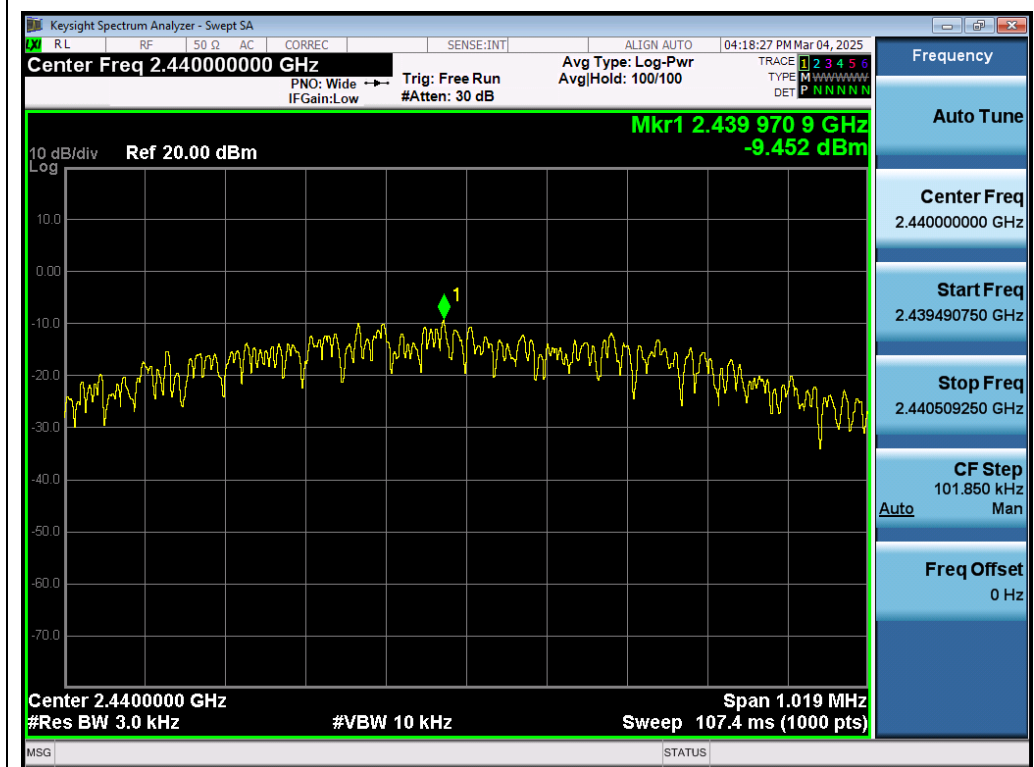
Test Result

Test Mode	Test Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK_1Mbps	2402	-9.803	≤ 8	Pass
	2440	-9.452	≤ 8	Pass
	2480	-9.348	≤ 8	Pass
GFSK_2Mbps	2402	-13.118	≤ 8	Pass
	2440	-12.787	≤ 8	Pass
	2480	-12.476	≤ 8	Pass

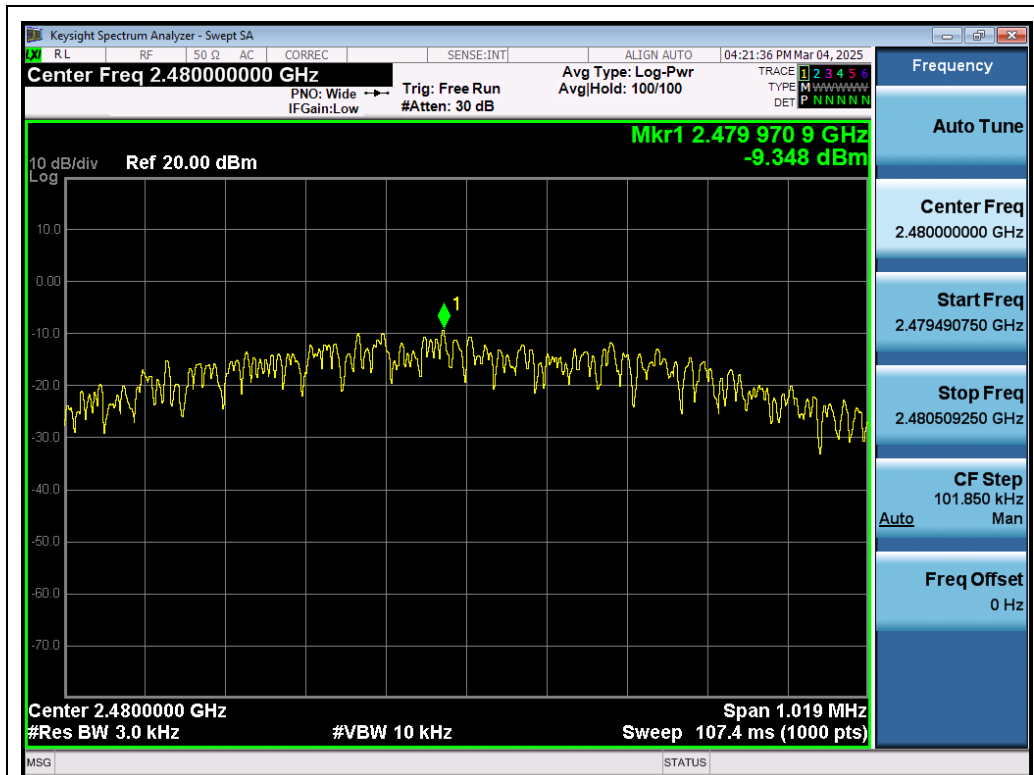
Test Graphs



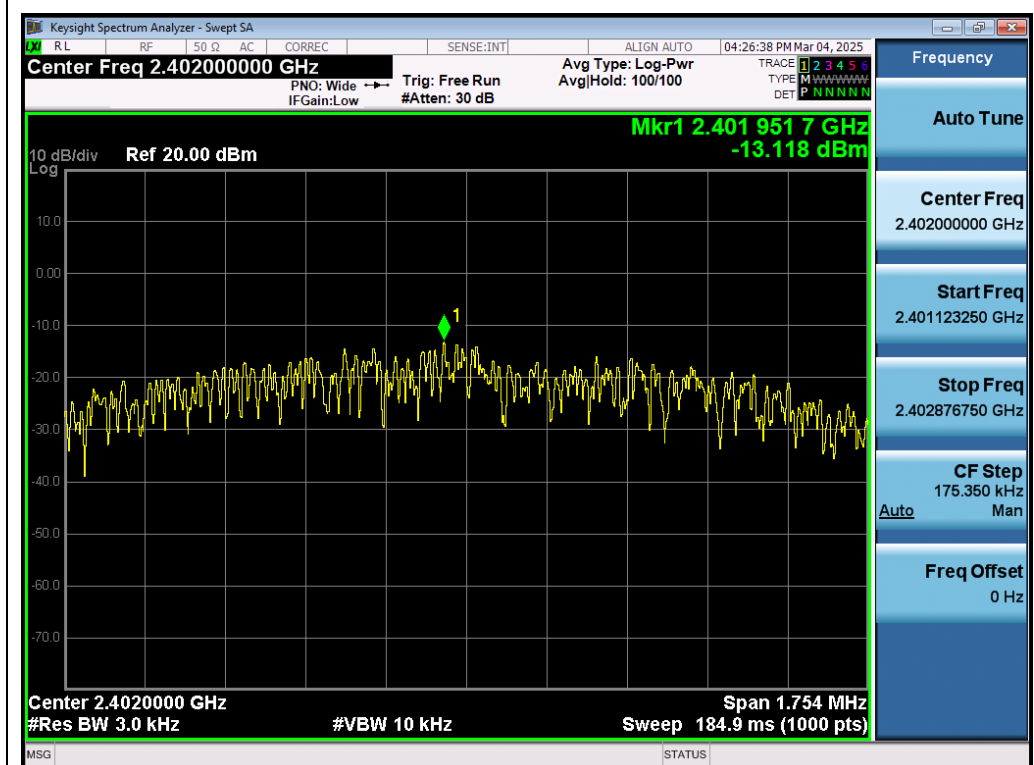
Test_Graph_LE1M_ANT1_2402_1Mbps_PSD



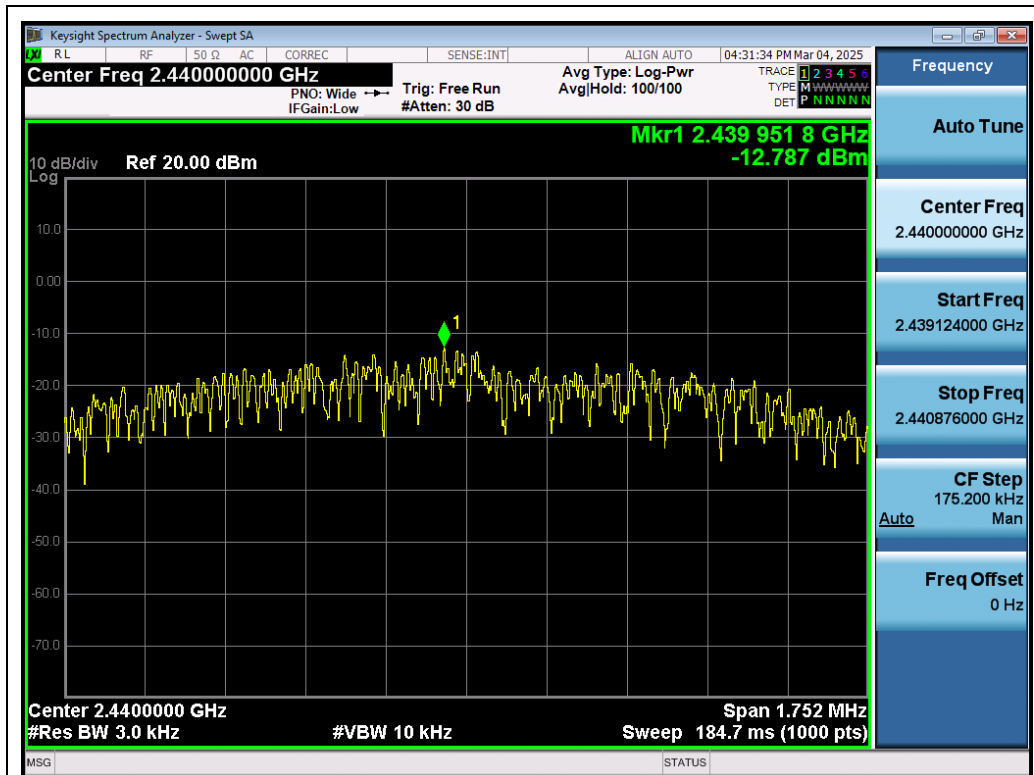
Test_Graph_LE1M_ANT1_2440_1Mbps_PSD



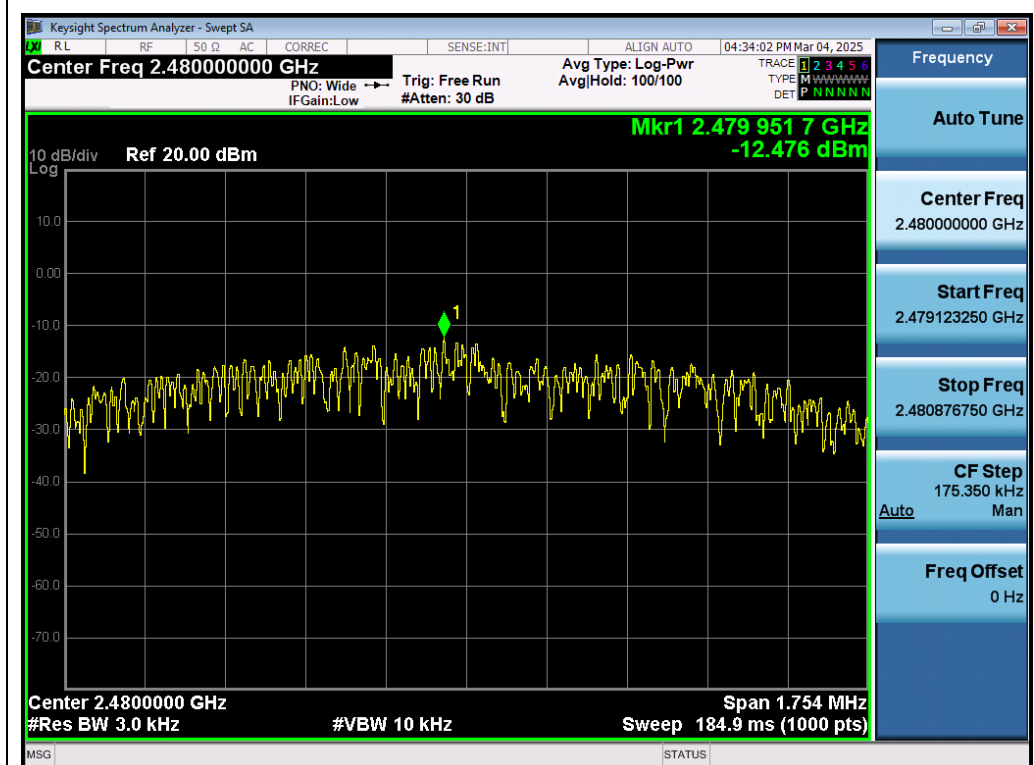
Test_Graph_LE1M_ANT1_2480_1Mbps_PSD



Test_Graph_LE2M_ANT1_2402_2Mbps_PSD



Test_Graph_LE2M_ANT1_2440_2Mbps_PSD



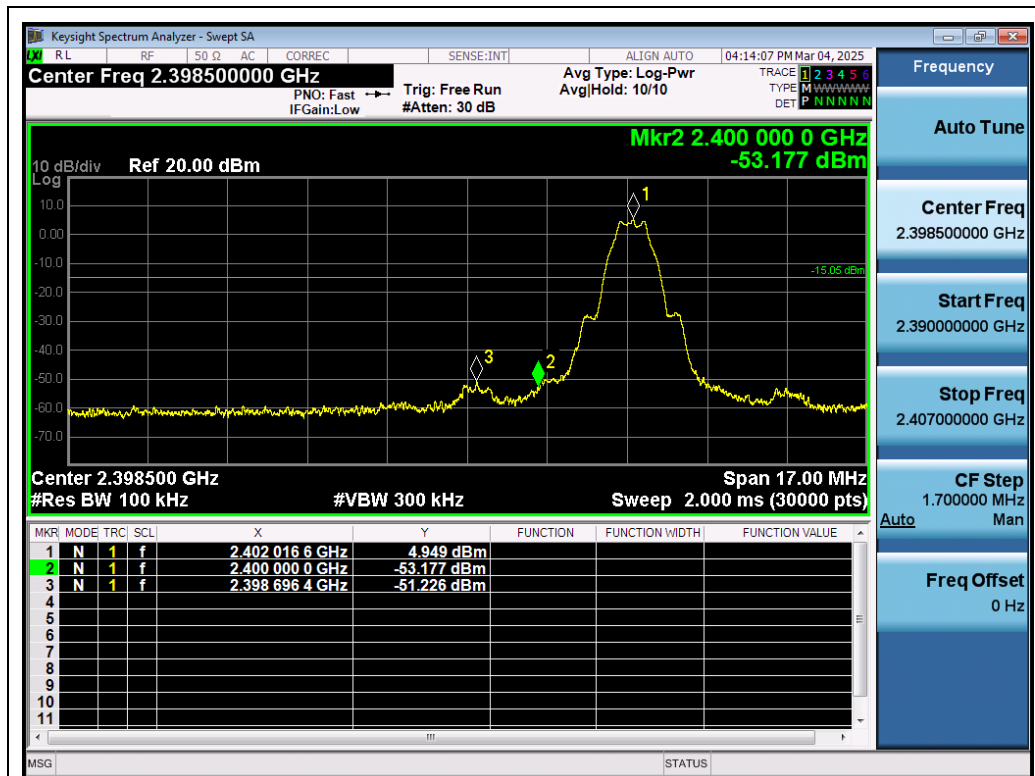
Test_Graph_LE2M_ANT1_2480_2Mbps_PSD

Appendix D: Band edge measurements

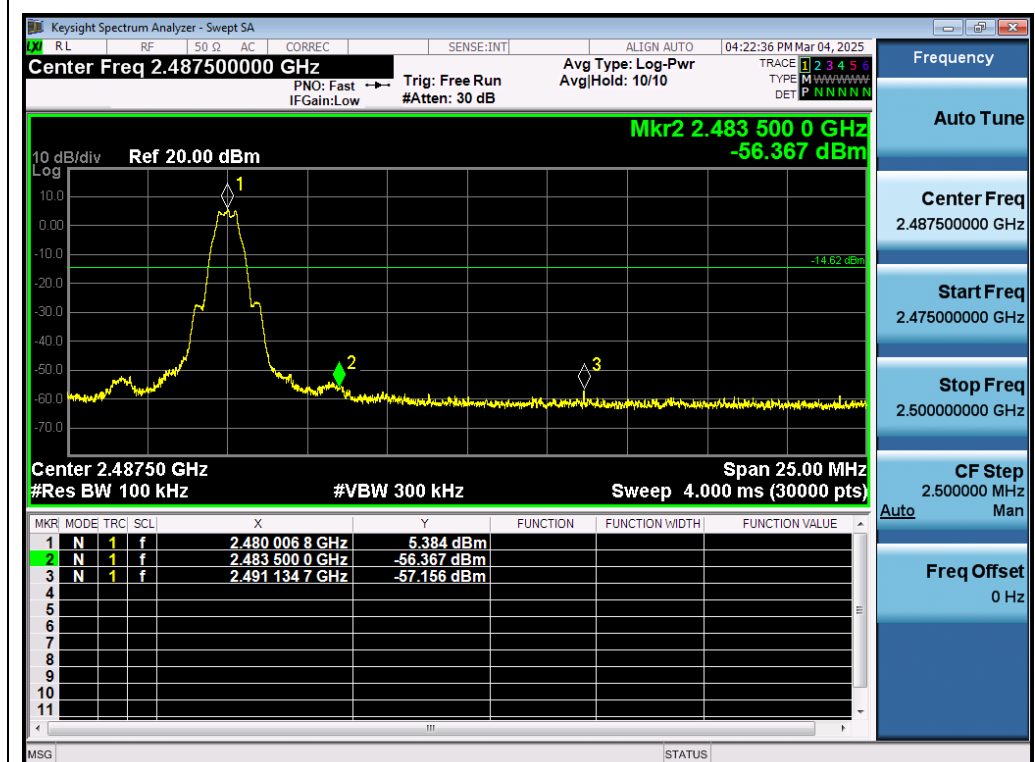
Test Result

Test Mode	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
GFSK_1Mbps	Low	2402	4.949	-53.177	≤ -15.05	Pass
GFSK_1Mbps	High	2480	5.384	-56.367	≤ -14.62	Pass
GFSK_2Mbps	Low	2402	4.890	-39.840	≤ -15.11	Pass
GFSK_2Mbps	High	2480	5.345	-58.155	≤ -14.66	Pass

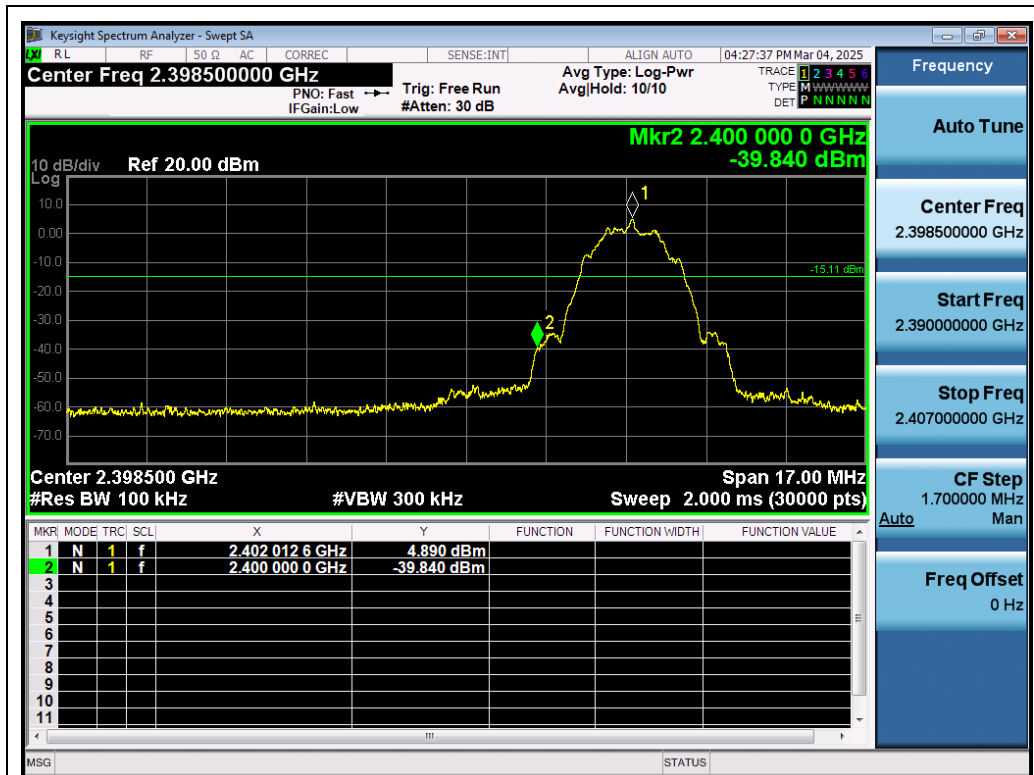
Test Graphs



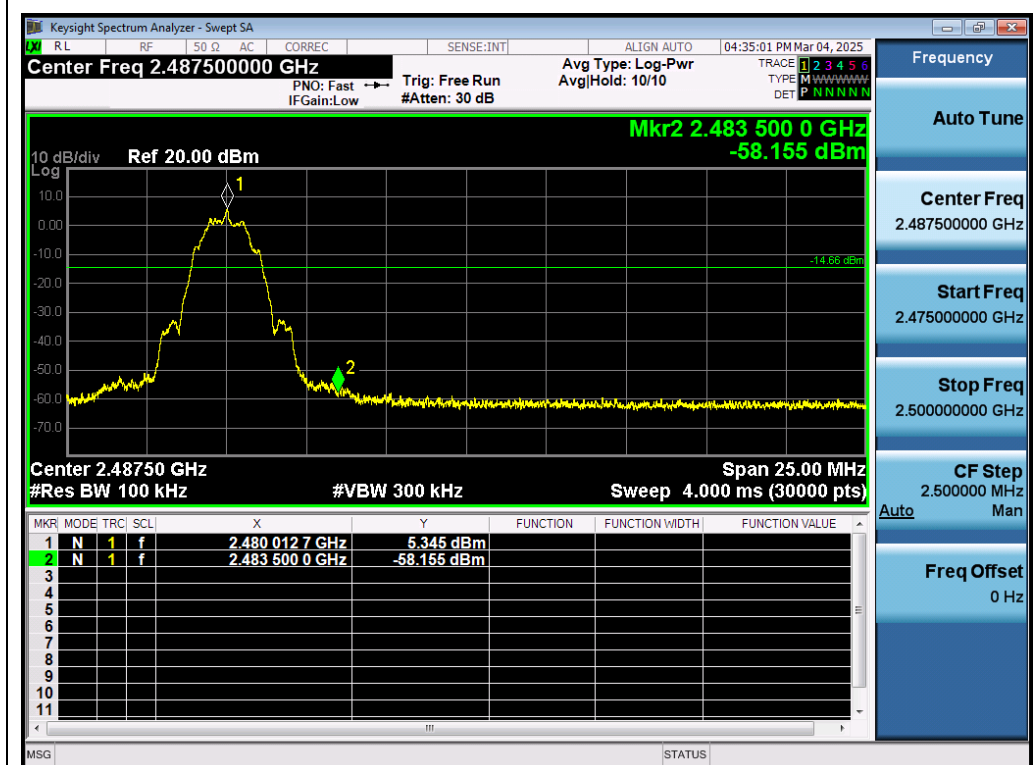
Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Edge Emissions



Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Edge Emissions



Test_Graph_LE2M_ANT1_2402_2Mbps_Lower Band Edge Emissions



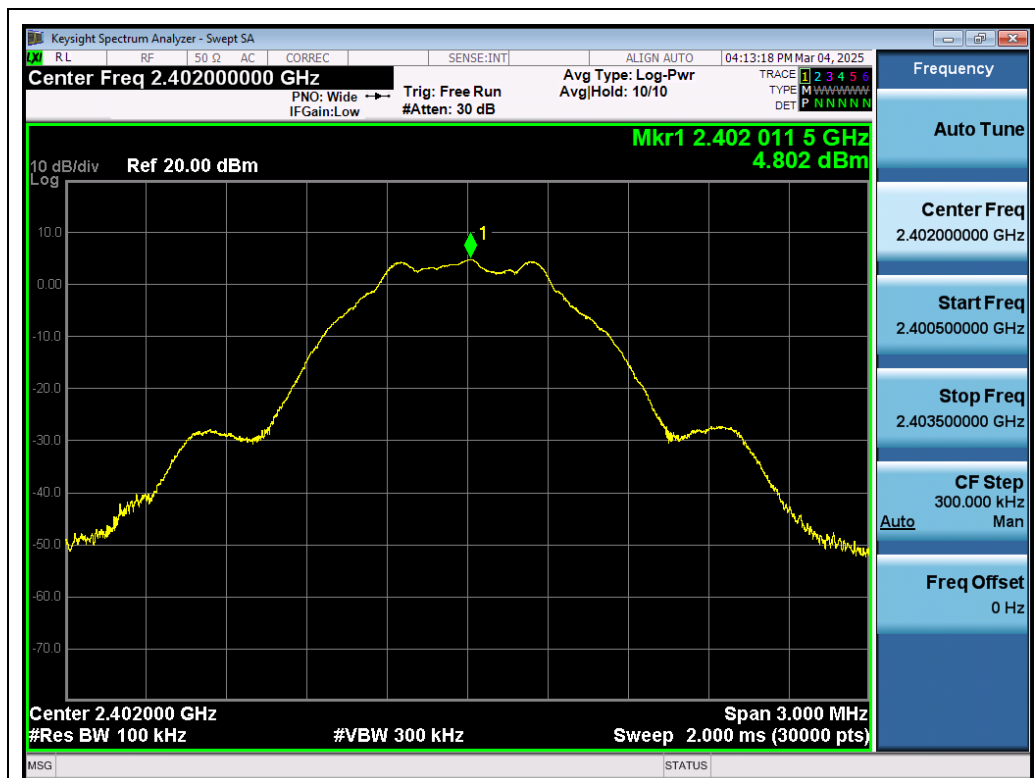
Test_Graph_LE2M_ANT1_2480_2Mbps_Higher Band Edge Emissions

Appendix E: Conducted Spurious Emission

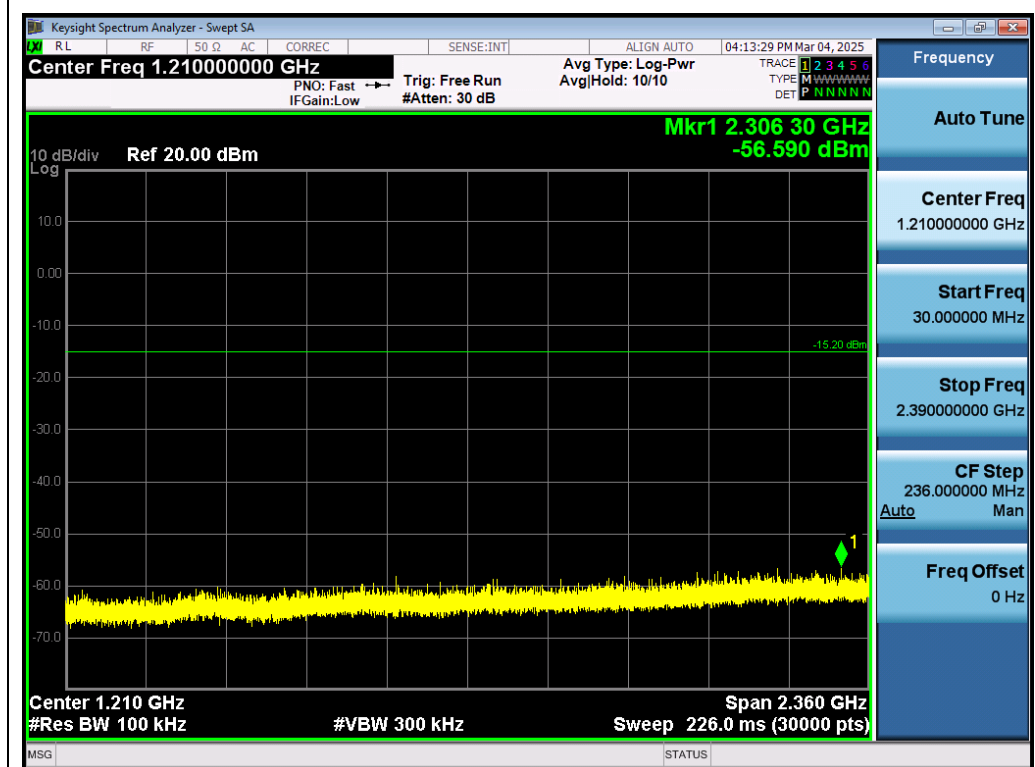
Test Result

Test Mode	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
GFSK_1Mbps	2402	0~Reference	4.802	4.802	---	Pass
GFSK_1Mbps	2402	30~2390	4.802	-56.590	≤ -15.20	Pass
GFSK_1Mbps	2402	2483.5~25000	4.802	-47.703	≤ -15.20	Pass
GFSK_1Mbps	2440	0~Reference	5.164	5.164	---	Pass
GFSK_1Mbps	2440	30~2400	5.164	-57.048	≤ -14.84	Pass
GFSK_1Mbps	2440	2483.5~25000	5.164	-47.983	≤ -14.84	Pass
GFSK_1Mbps	2480	0~Reference	5.280	5.280	---	Pass
GFSK_1Mbps	2480	30~2400	5.280	-56.299	≤ -14.72	Pass
GFSK_1Mbps	2480	2500~26500	5.280	-48.043	≤ -14.72	Pass
GFSK_2Mbps	2402	0~Reference	4.768	4.768	---	Pass
GFSK_2Mbps	2402	30~2390	4.768	-55.942	≤ -15.23	Pass
GFSK_2Mbps	2402	2483.5~25000	4.768	-47.629	≤ -15.23	Pass
GFSK_2Mbps	2440	0~Reference	5.133	5.133	---	Pass
GFSK_2Mbps	2440	30~2400	5.133	-56.187	≤ -14.87	Pass
GFSK_2Mbps	2440	2483.5~25000	5.133	-47.729	≤ -14.87	Pass
GFSK_2Mbps	2480	0~Reference	5.267	5.267	---	Pass
GFSK_2Mbps	2480	30~2400	5.267	-54.514	≤ -14.73	Pass
GFSK_2Mbps	2480	2500~26500	5.267	-47.661	≤ -14.73	Pass

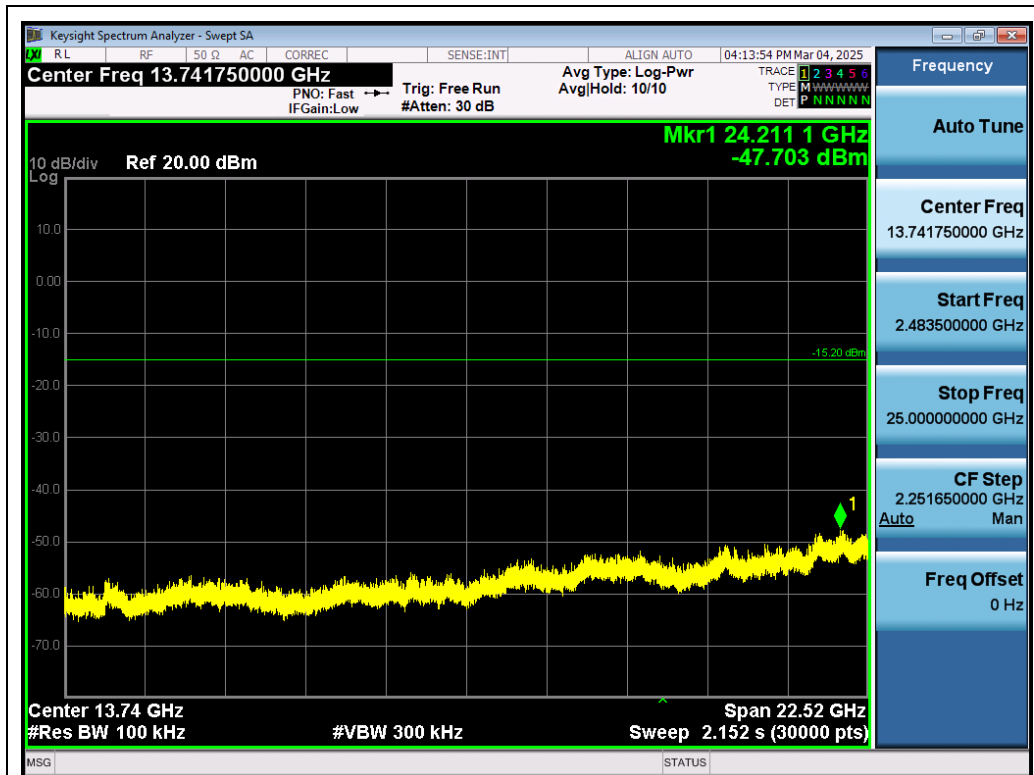
Test Graphs



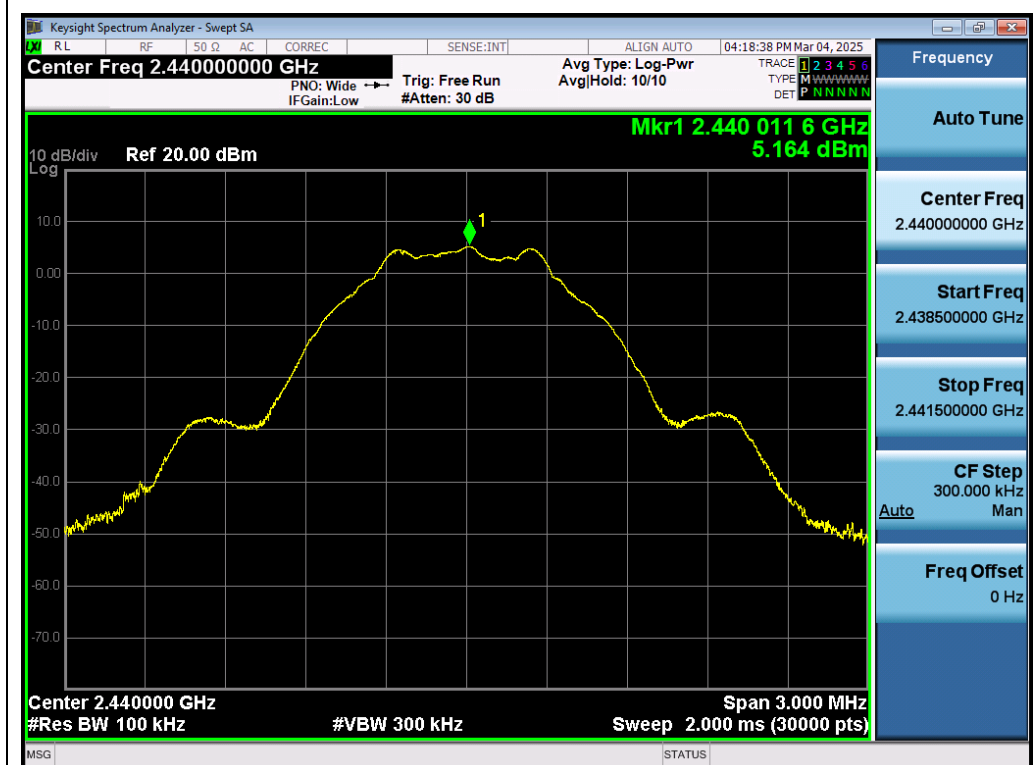
Test_Graph_LE1M_ANT1_2402_1Mbps_Reference Level



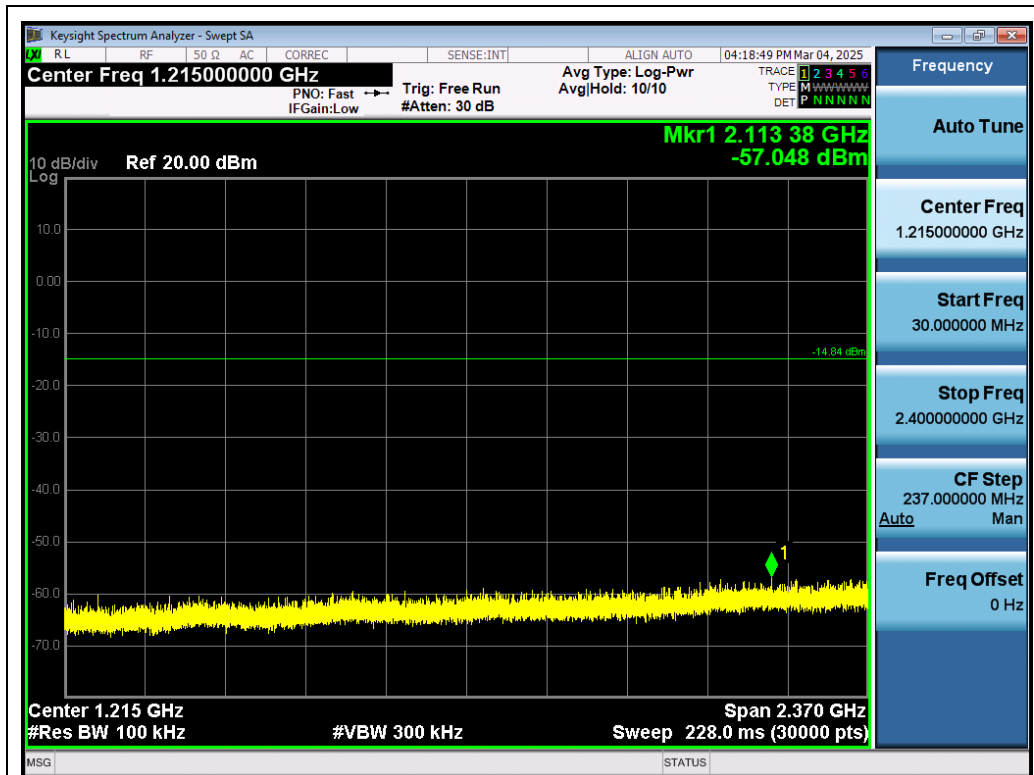
Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Emissions



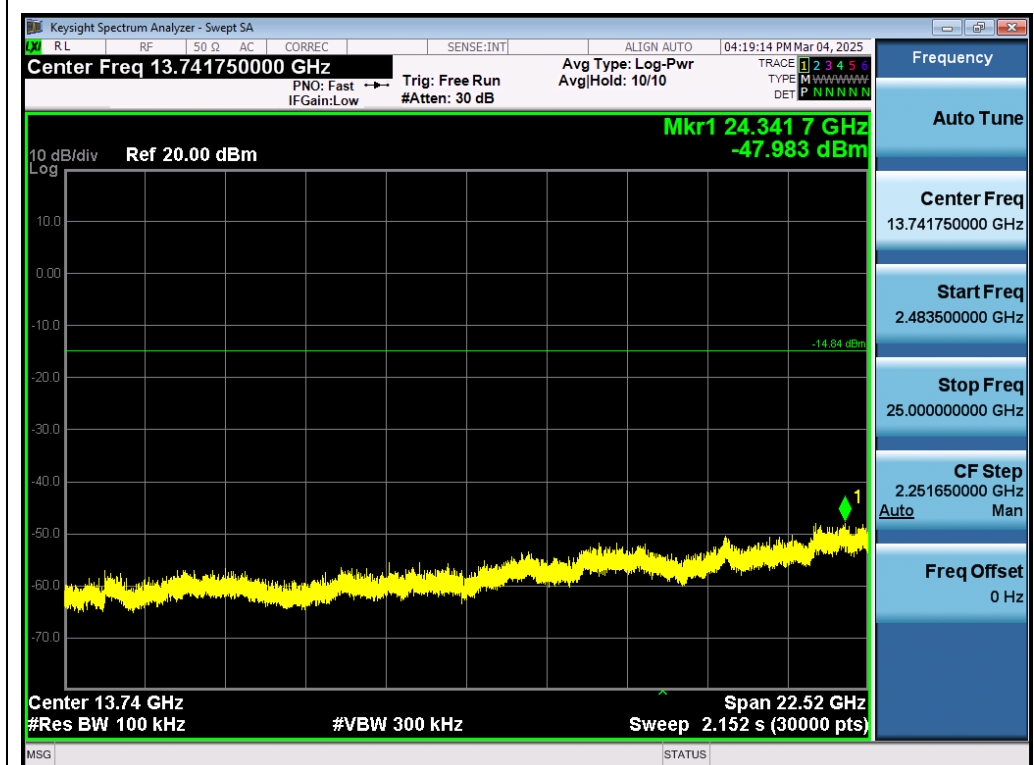
Test_Graph_LE1M_ANT1_2402_1Mbps_Higher Band Emissions



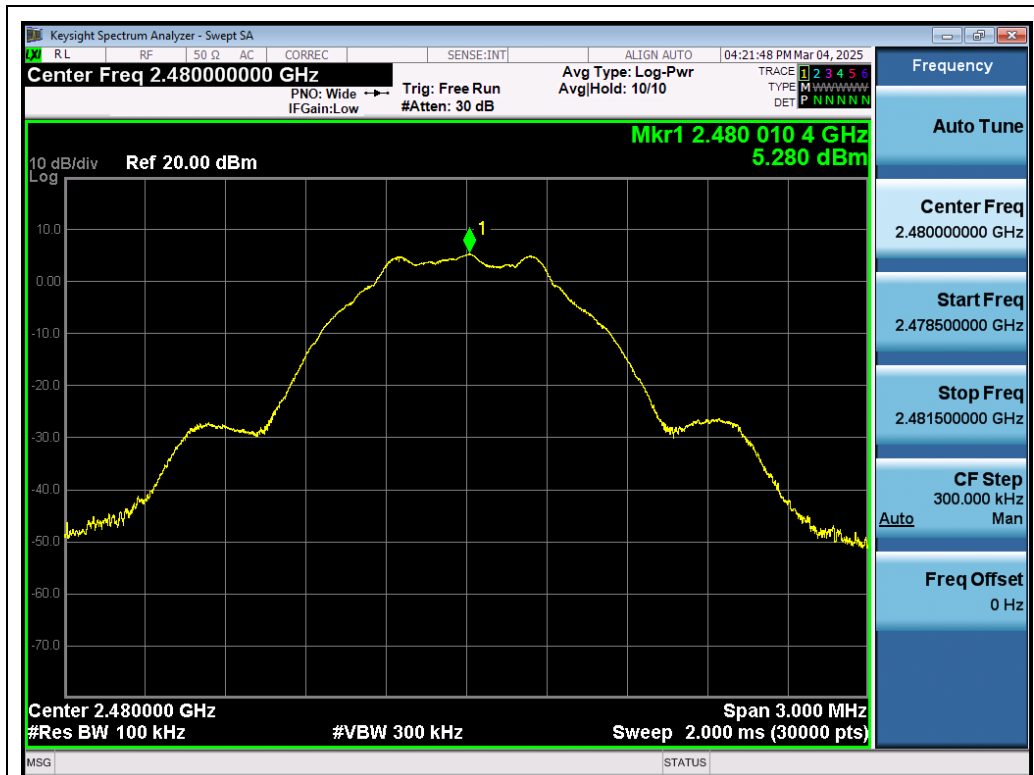
Test_Graph_LE1M_ANT1_2440_1Mbps_Reference Level



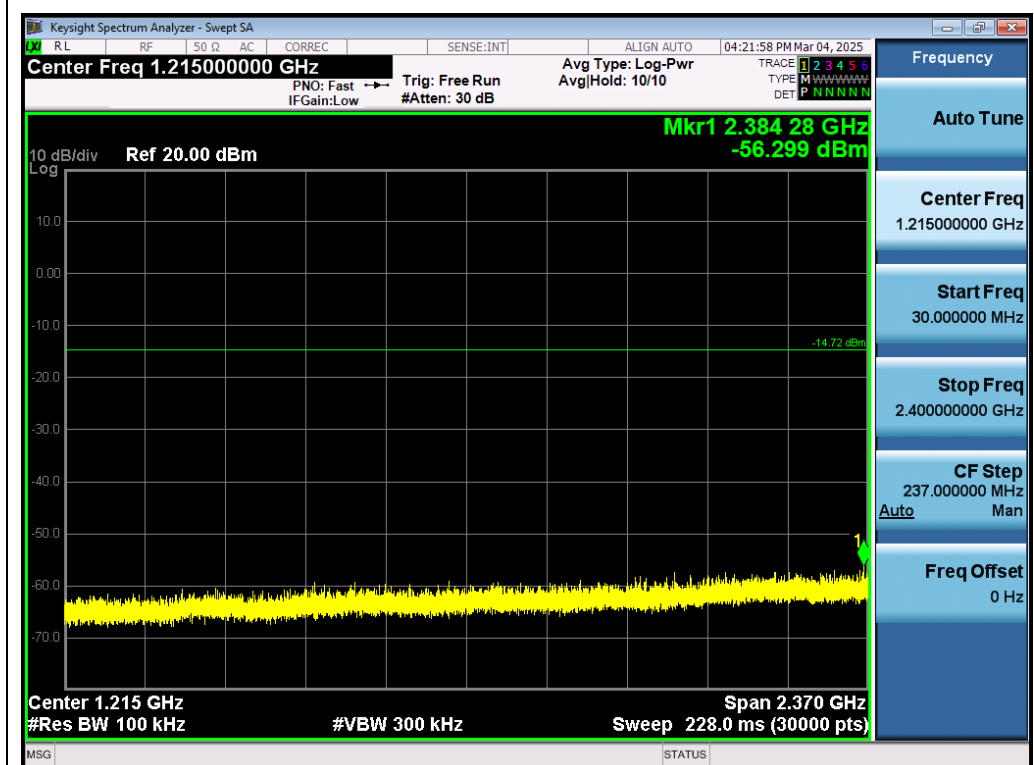
Test_Graph_LE1M_ANT1_2440_1Mbps_Lower Band Emissions



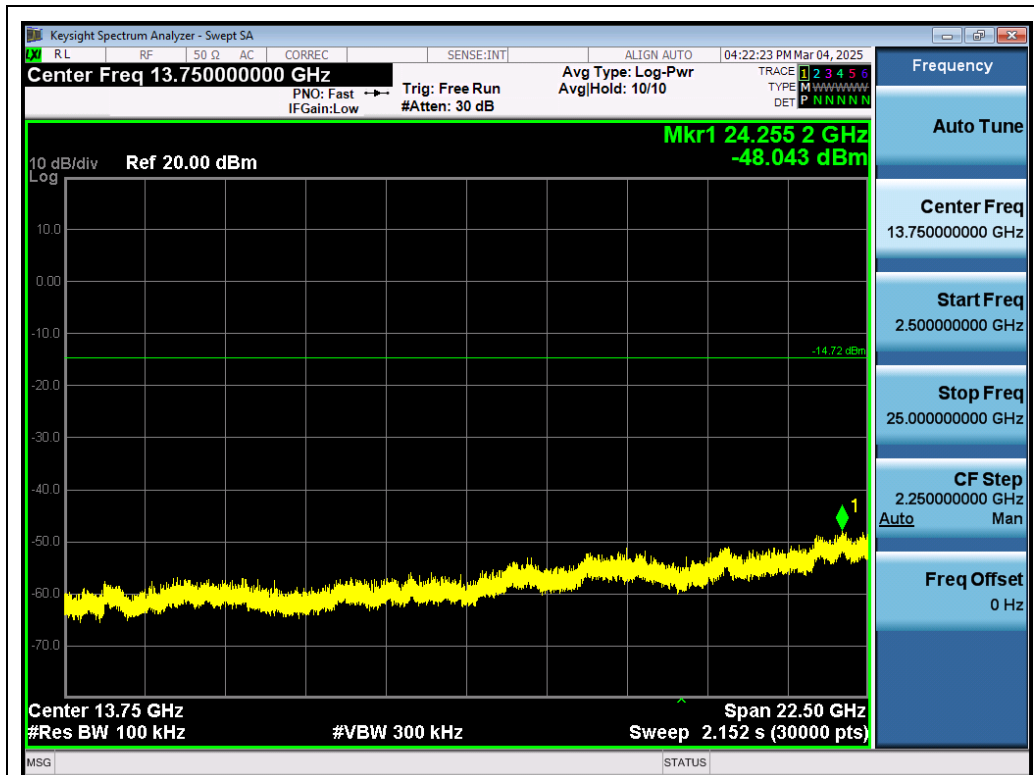
Test_Graph_LE1M_ANT1_2440_1Mbps_Higher Band Emissions



Test_Graph_LE1M_ANT1_2480_1Mbps_Reference Level



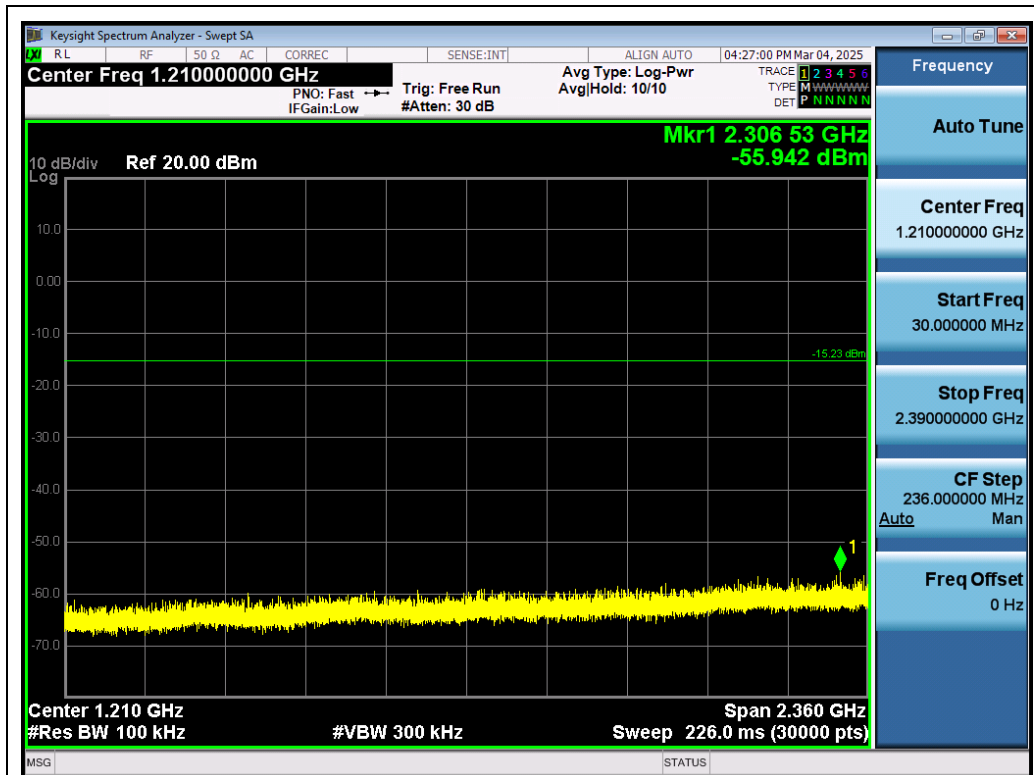
Test_Graph_LE1M_ANT1_2480_1Mbps_Lower Band Emissions



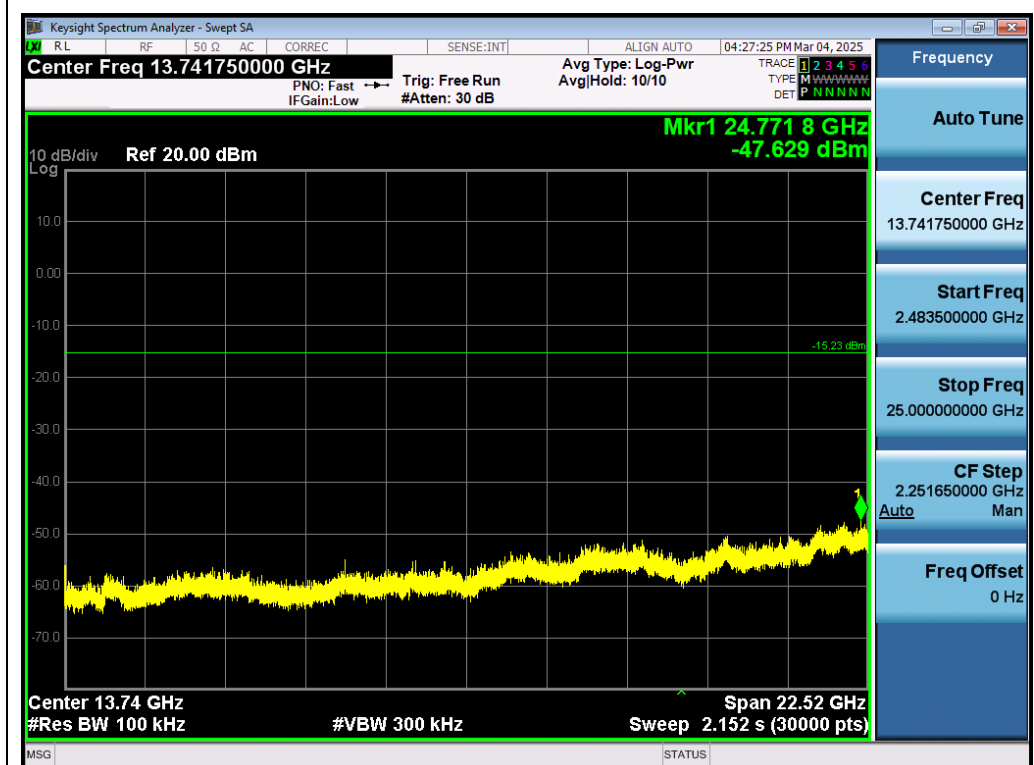
Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Emissions



Test_Graph_LE2M_ANT1_2402_2Mbps_Reference Level



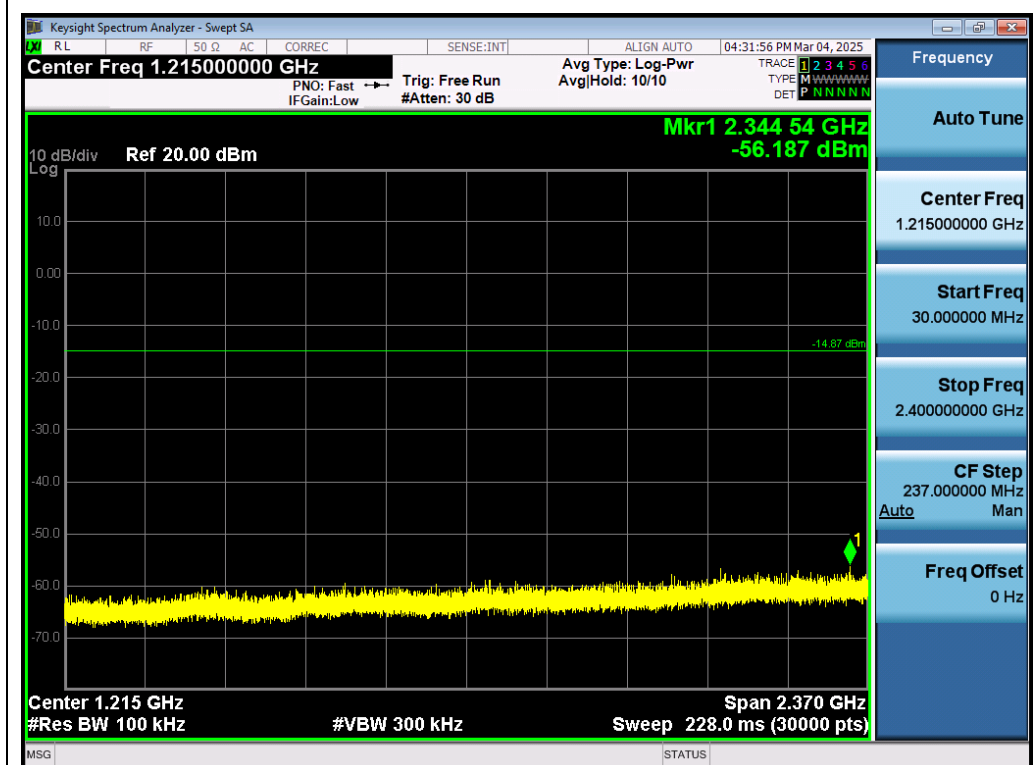
Test_Graph_LE2M_ANT1_2402_2Mbps_Lower Band Emissions



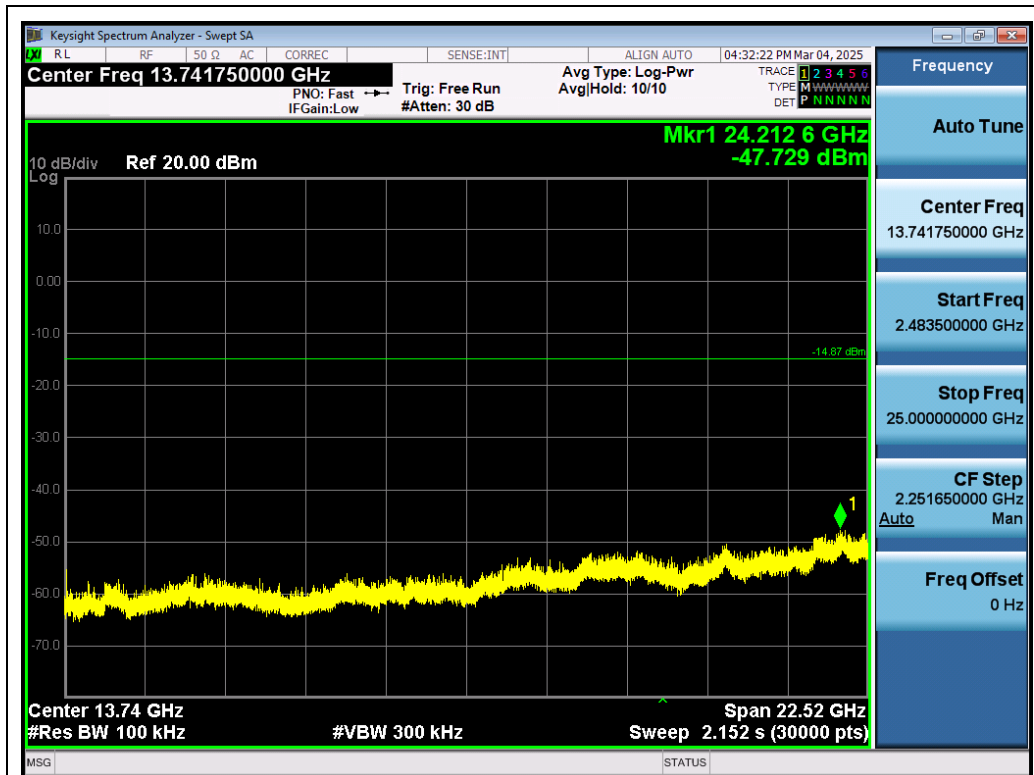
Test_Graph_LE2M_ANT1_2402_2Mbps_Higher Band Emissions



Test_Graph_LE2M_ANT1_2440_2Mbps_Reference Level



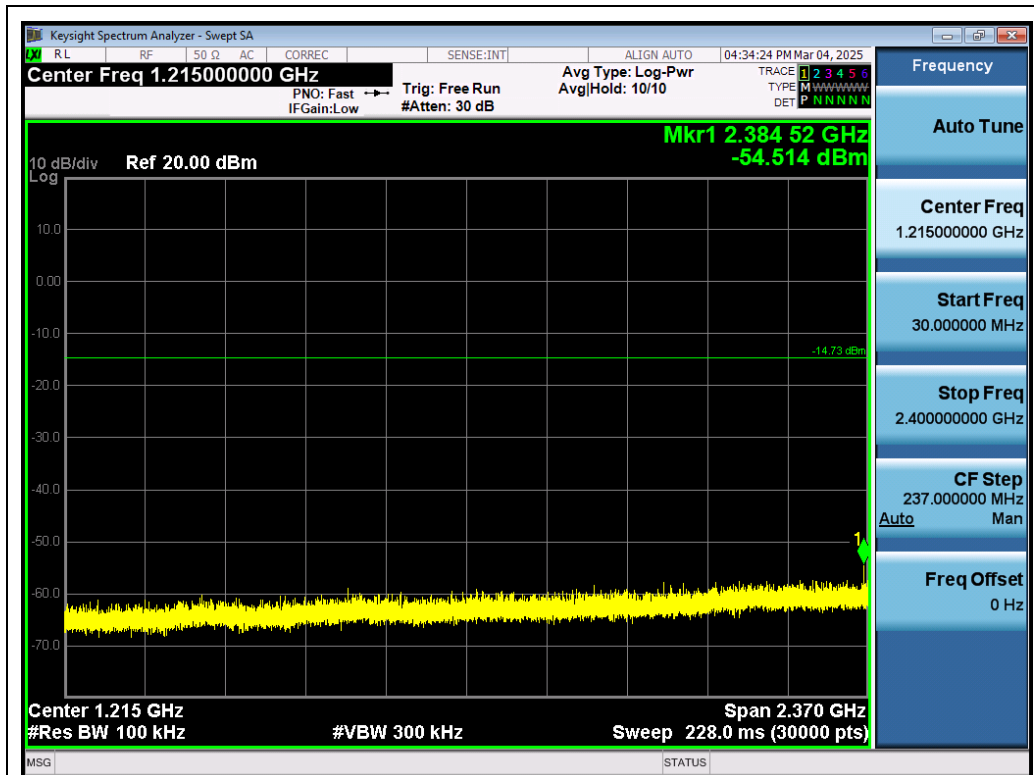
Test_Graph_LE2M_ANT1_2440_2Mbps_Lower Band Emissions



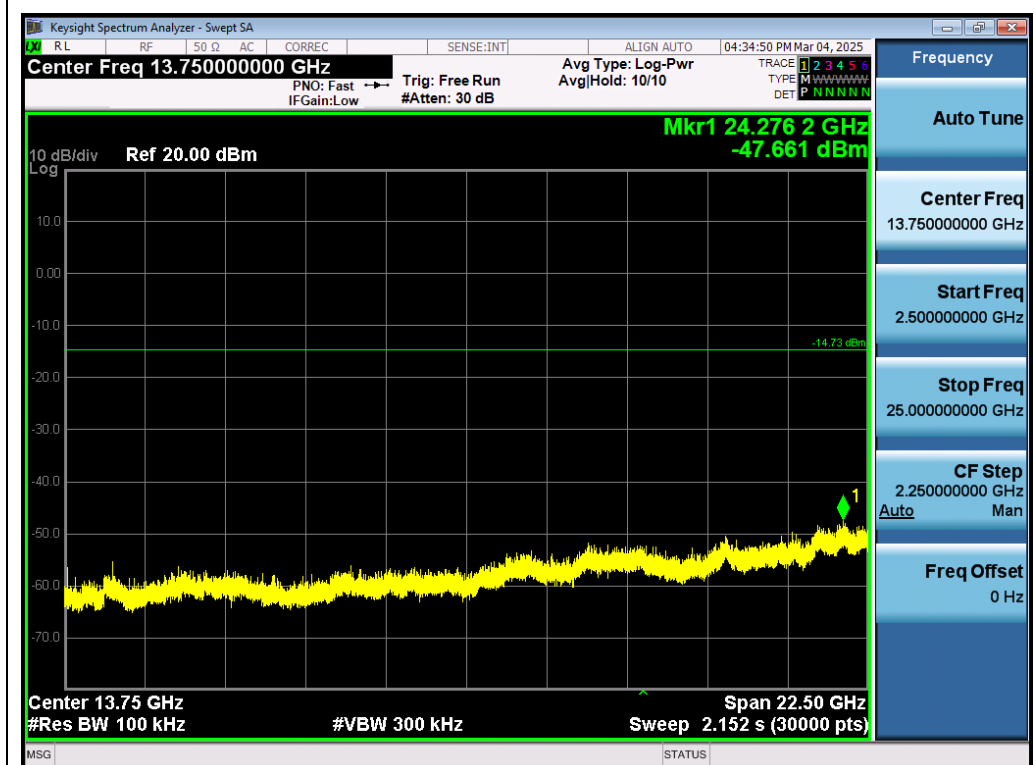
Test_Graph_LE2M_ANT1_2440_2Mbps_Higher Band Emissions



Test_Graph_LE2M_ANT1_2480_2Mbps_Reference Level



Test_Graph_LE2M_ANT1_2480_2Mbps_Lower Band Emissions



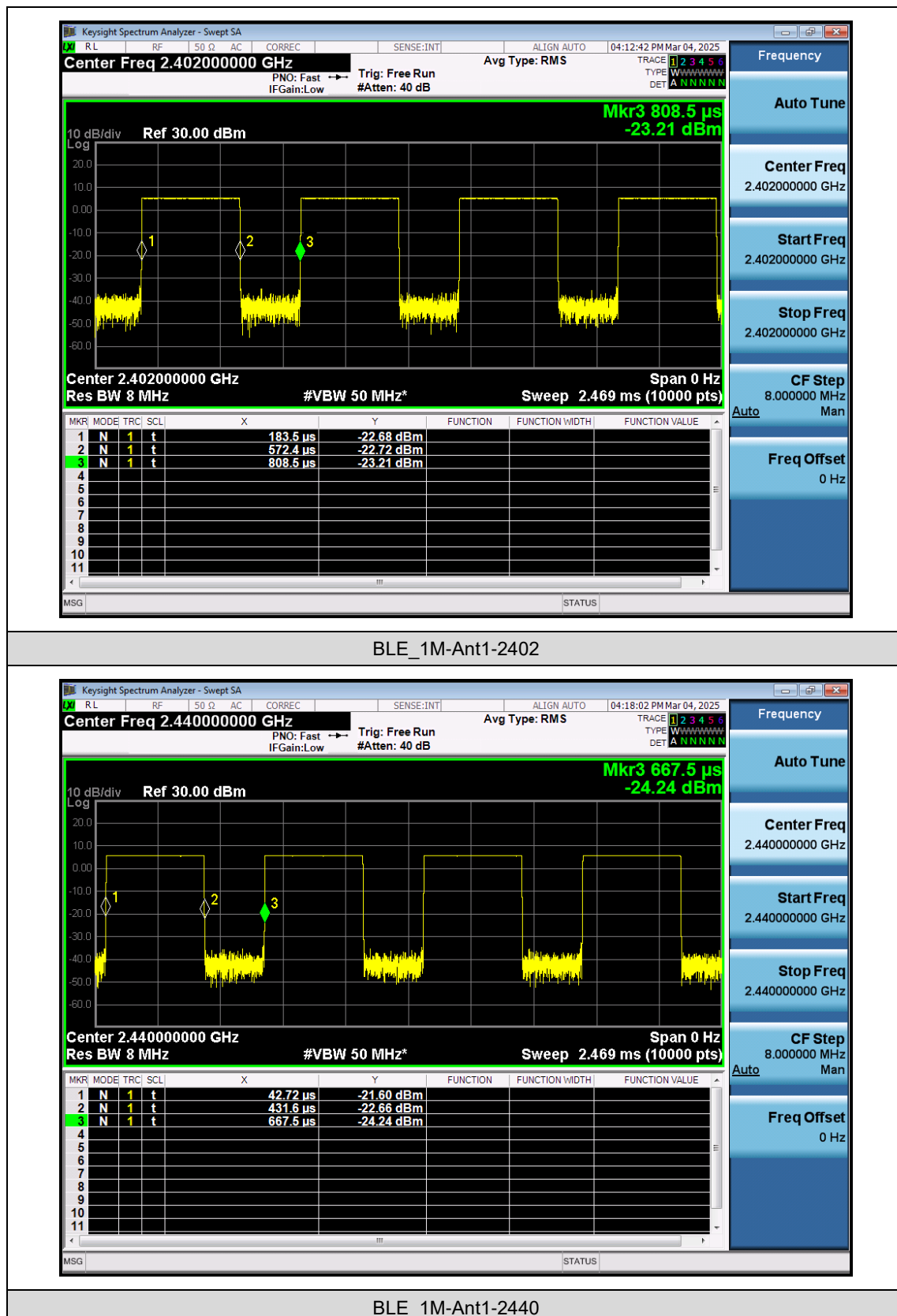
Test_Graph_LE2M_ANT1_2480_2Mbps_Higher Band Emissions

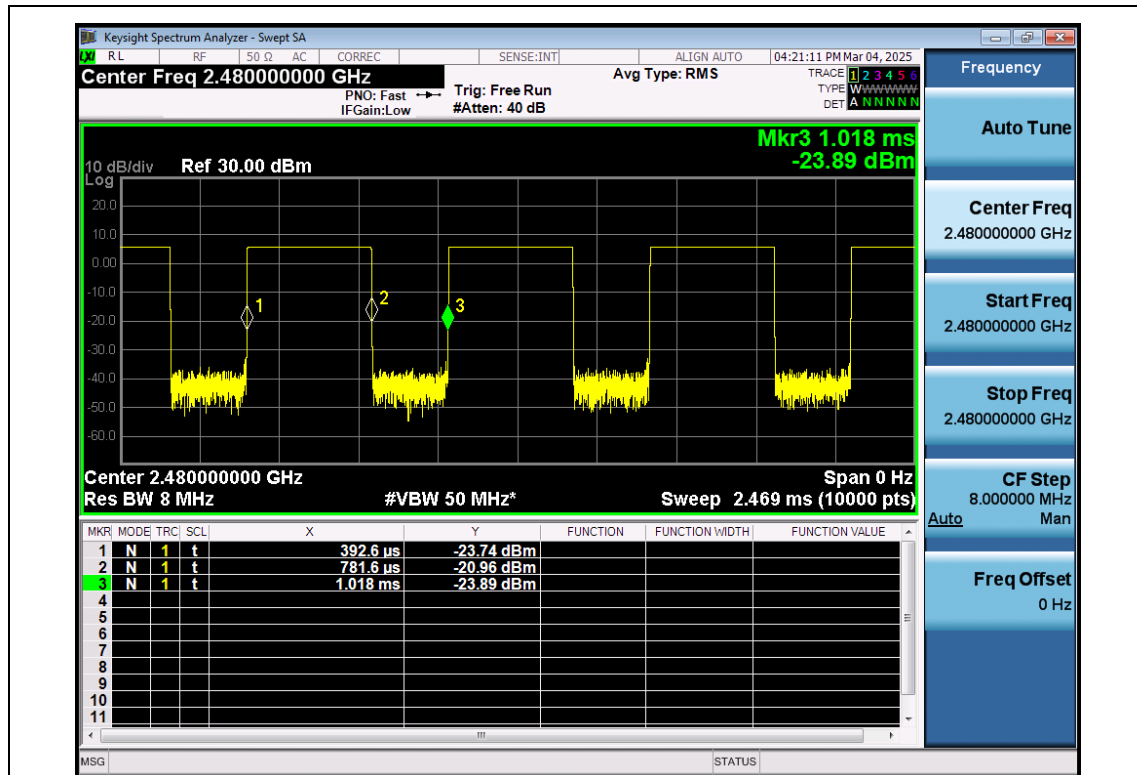
Appendix F: Duty Cycle

Test Result

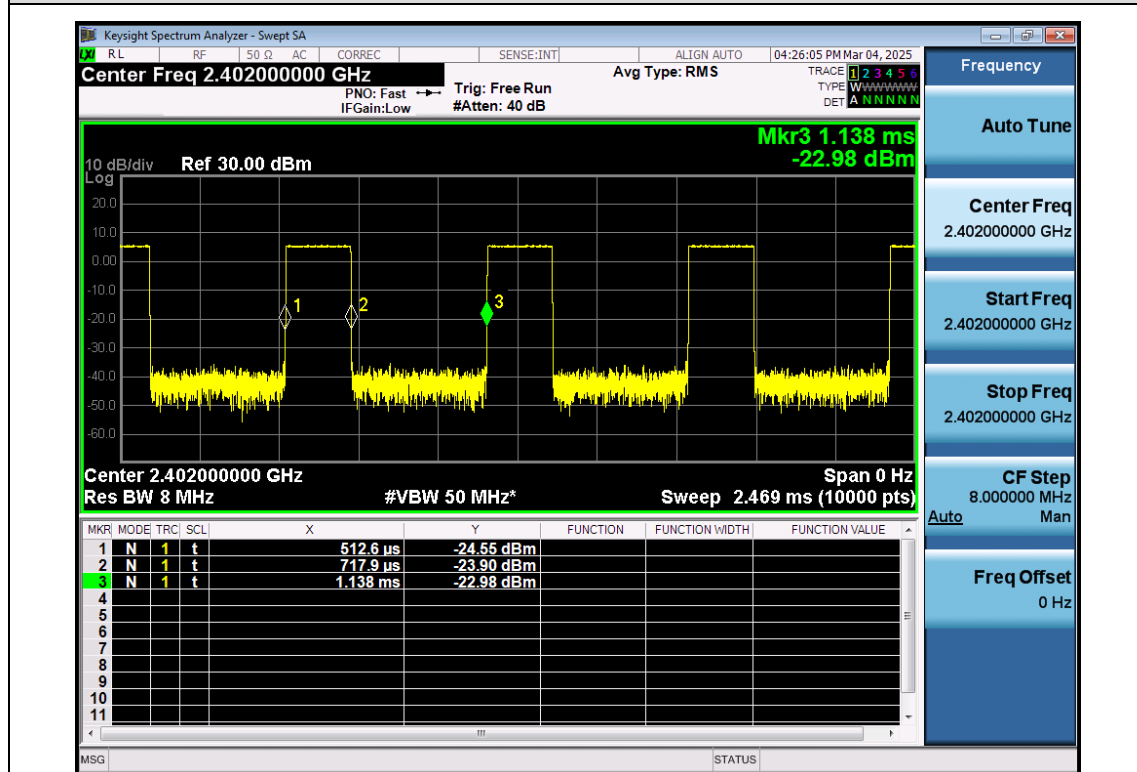
Test Mode	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
GFSK_1Mbps	2402	0.39	0.63	62.22	2.08
GFSK_1Mbps	2440	0.39	0.62	62.24	2.08
GFSK_1Mbps	2480	0.39	0.62	62.20	2.08
GFSK_2Mbps	2402	0.20	0.63	32.83	4.81
GFSK_2Mbps	2440	0.20	0.62	32.83	4.81
GFSK_2Mbps	2480	0.25	0.62	32.79	4.81

Test Graphs

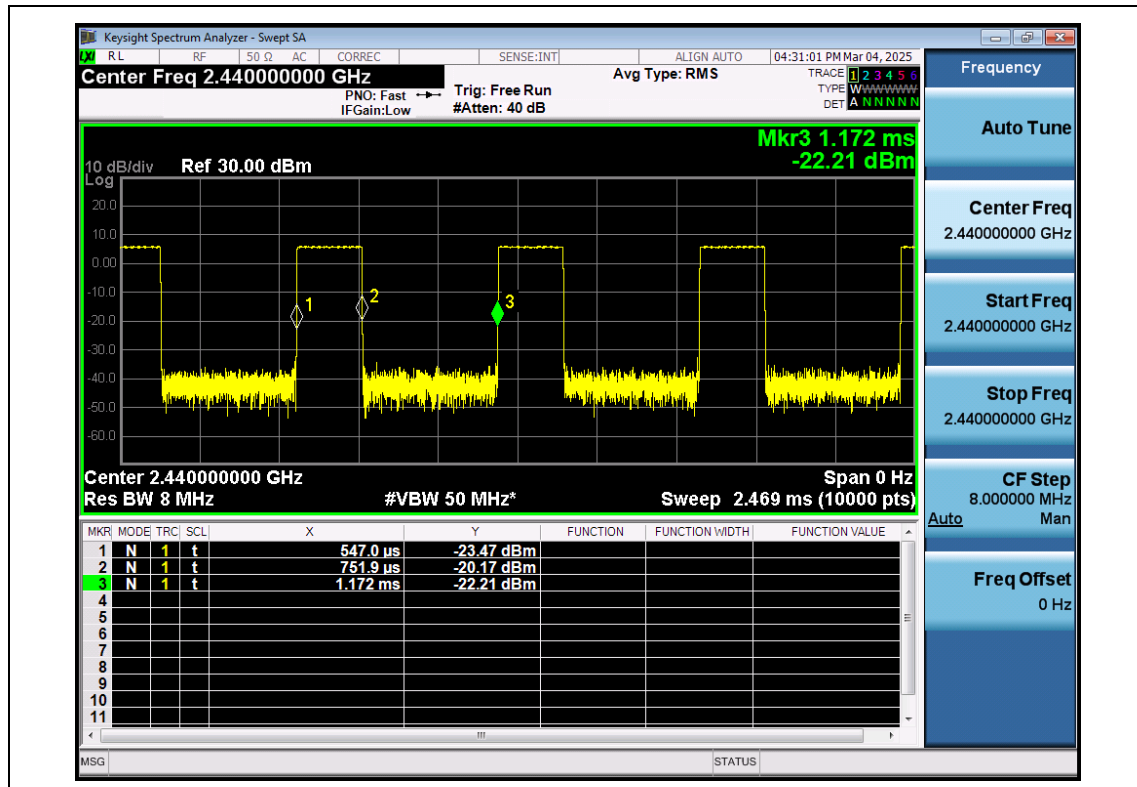




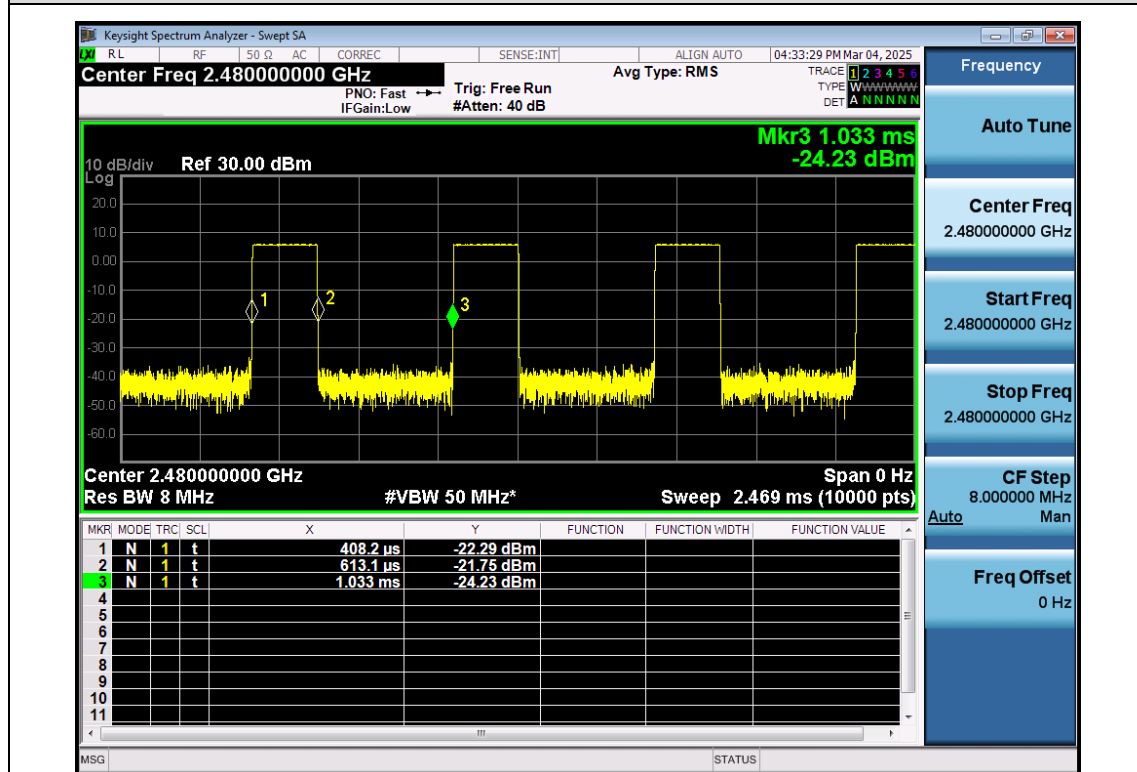
BLE_1M-Ant1-2480



BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480