

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Tablet Station

Trade Mark: 

Test Model: CH26

FCC ID: 2APPZ-CH26

Environmental Conditions

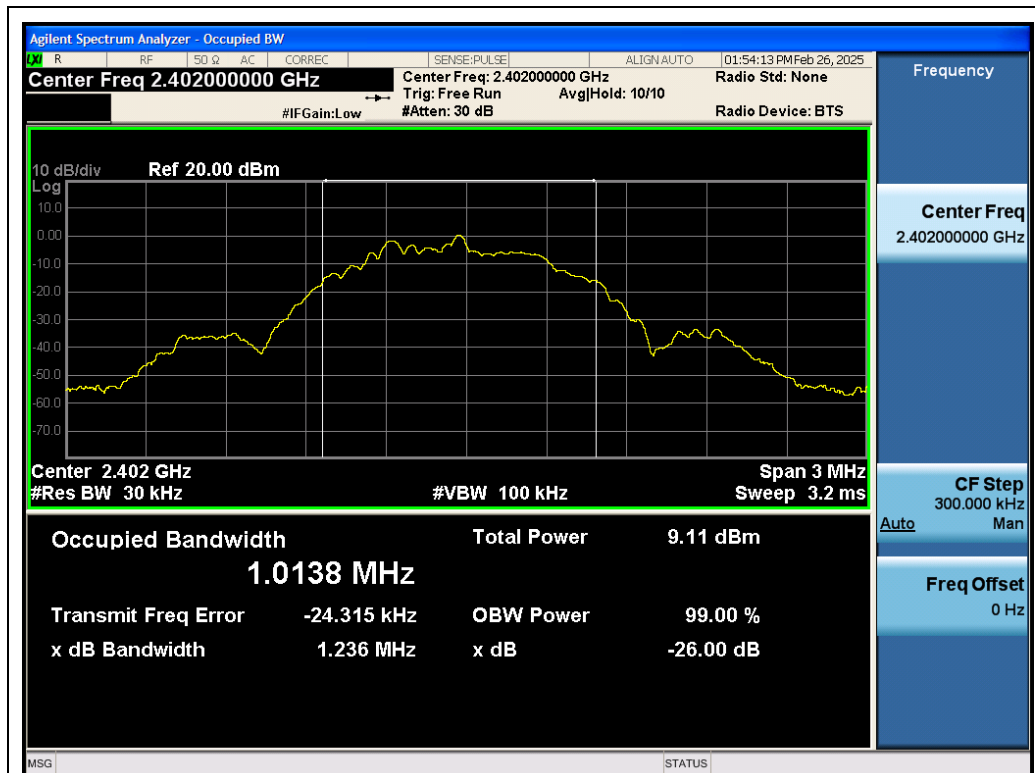
Temperature:	21℃
Relative Humidity:	54%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

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	1.014	0.663	≥ 0.5	Pass
	2440	1.015	0.658	≥ 0.5	Pass
	2480	1.015	0.660	≥ 0.5	Pass
GFSK_2Mbps	2402	2.000	1.153	≥ 0.5	Pass
	2440	2.004	1.151	≥ 0.5	Pass
	2480	2.003	1.155	≥ 0.5	Pass

Test Graphs



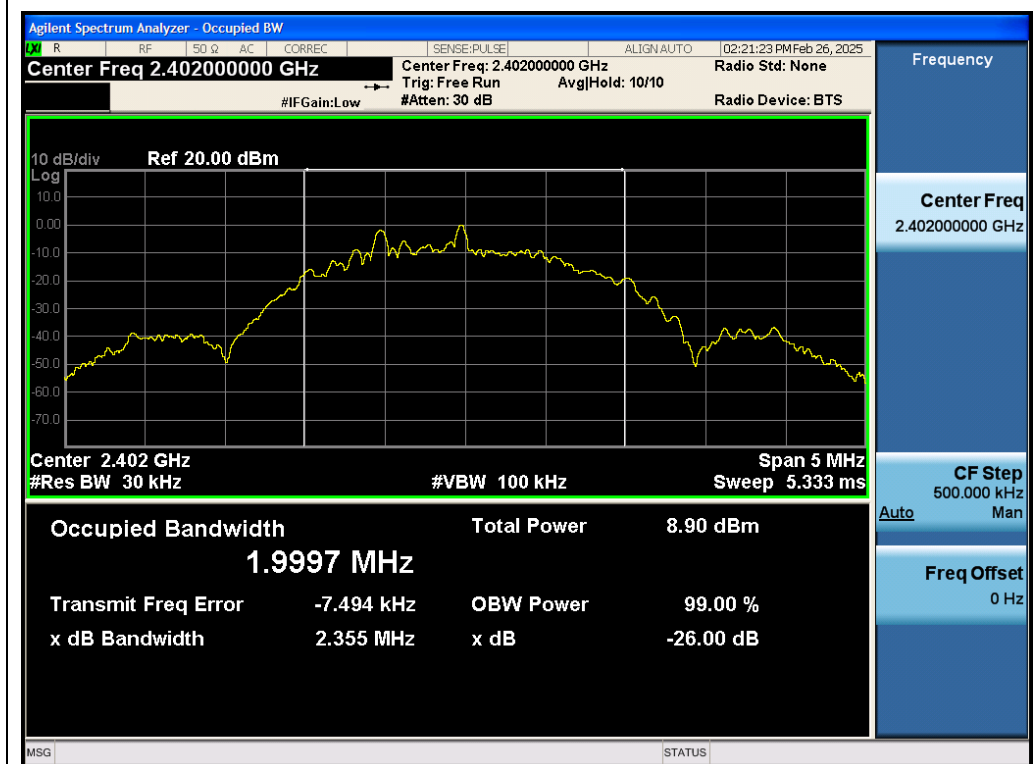
Test_Graph_LE1M_ANT1_2402_1Mbps_OBW



Test_Graph_LE1M_ANT1_2440_1Mbps_OBW



Test_Graph_LE1M_ANT1_2480_1Mbps_OBW



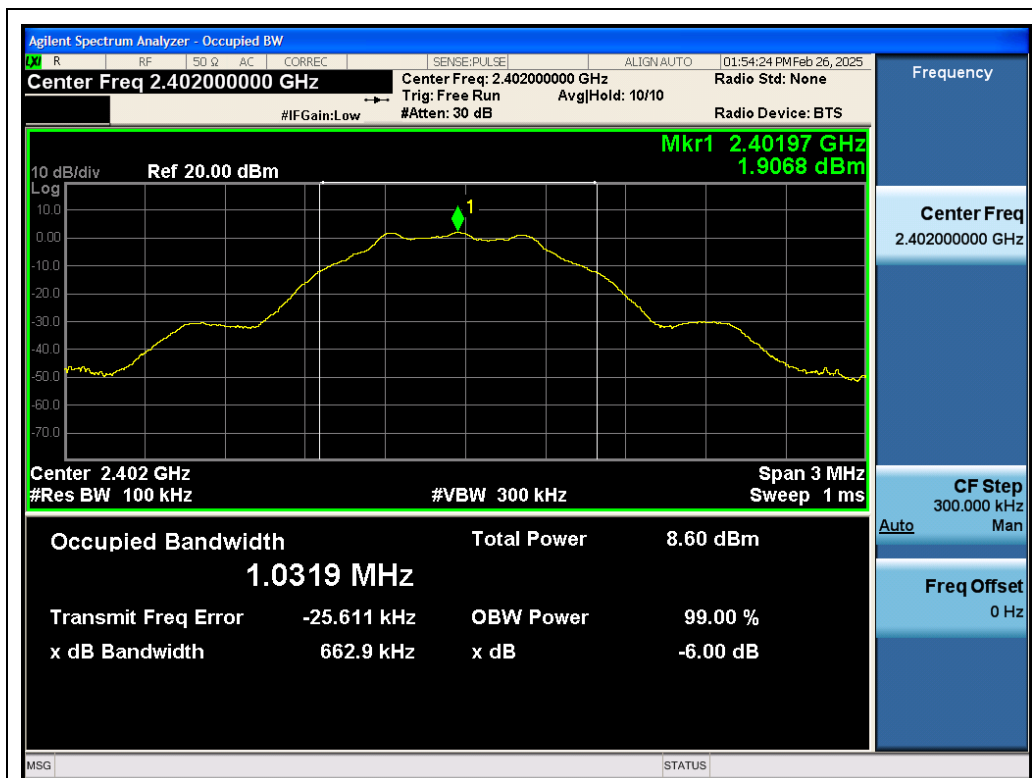
Test_Graph_LE2M_ANT1_2402_2Mbps_OBW



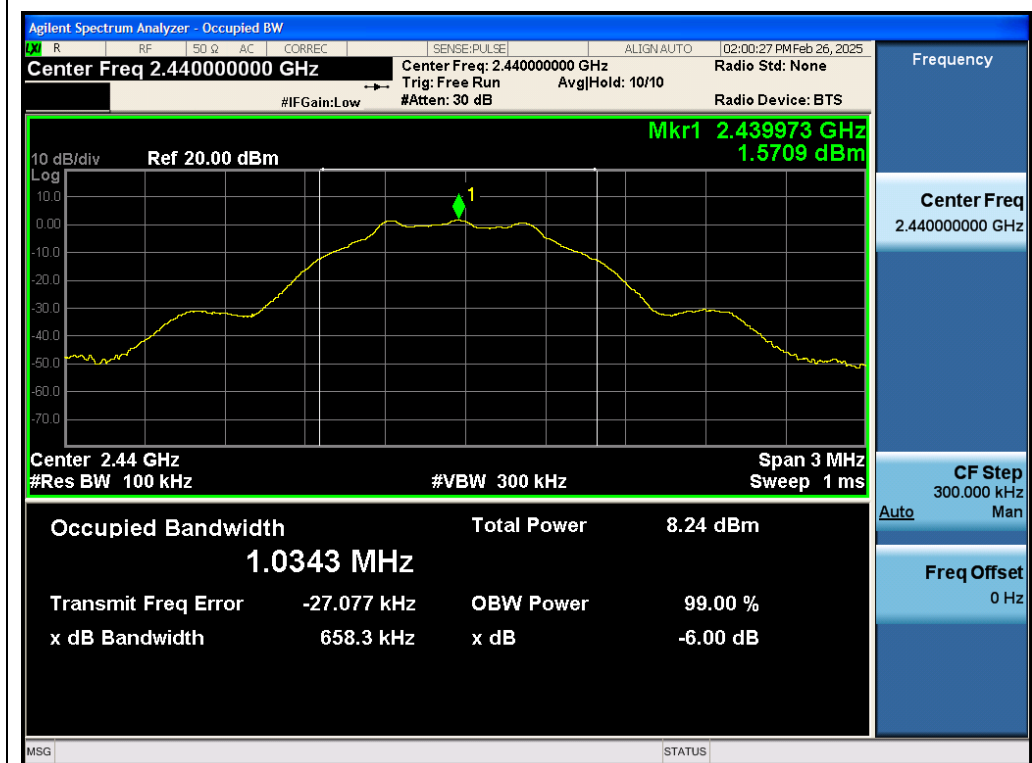
Test_Graph_LE2M_ANT1_2440_2Mbps_OBW



Test_Graph_LE2M_ANT1_2480_2Mbps_OBW



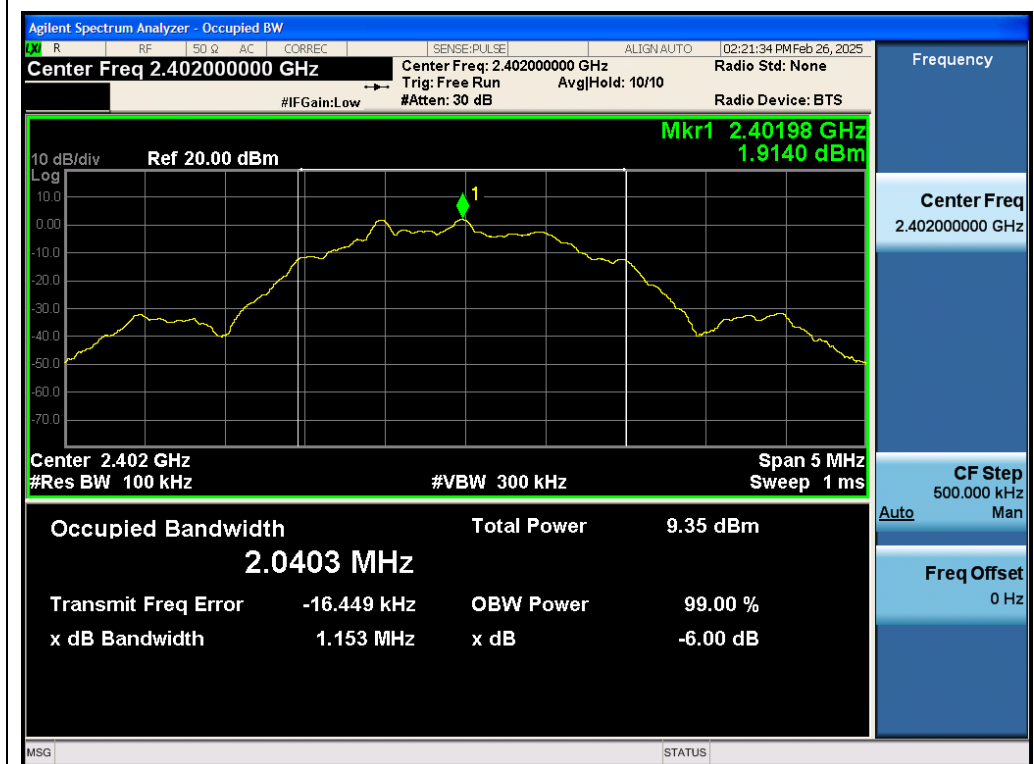
Test_Graph_LE1M_ANT1_2402_1Mbps_DTSBW



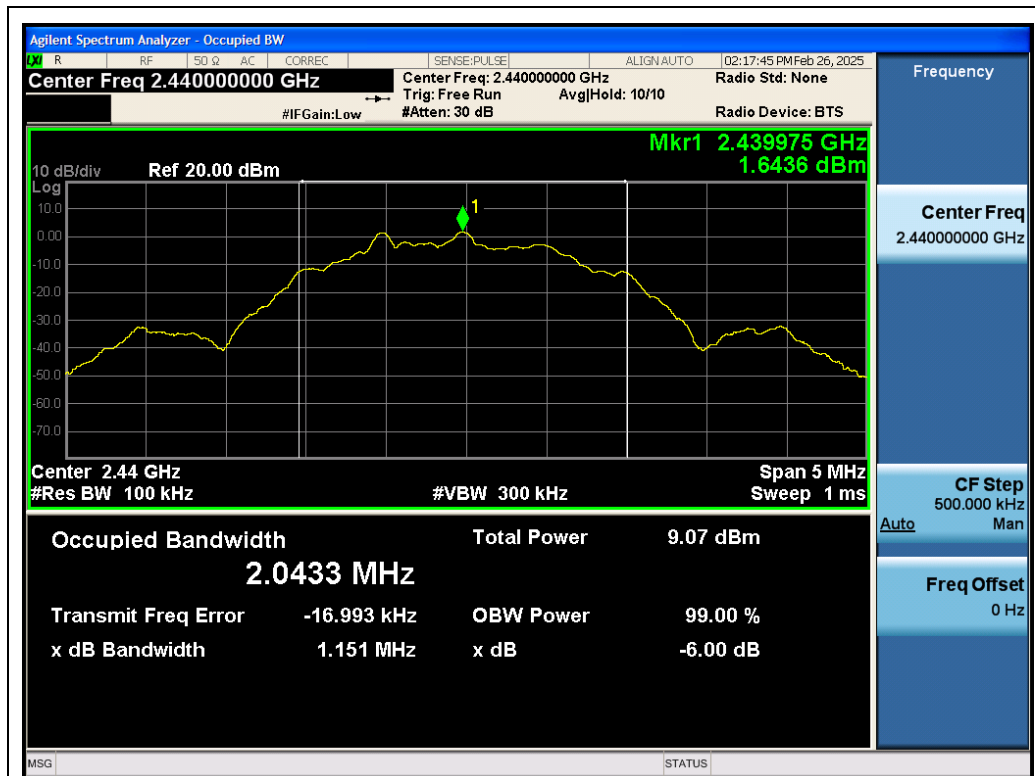
Test_Graph_LE1M_ANT1_2440_1Mbps_DTSBW



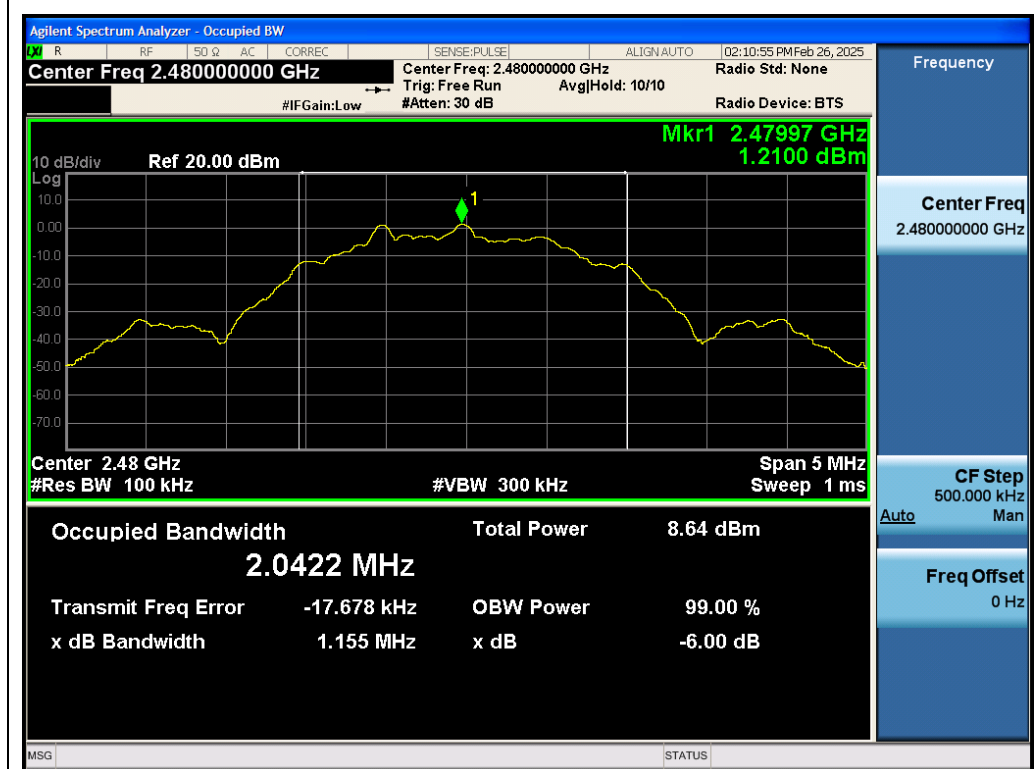
Test_Graph_LE1M_ANT1_2480_1Mbps_DTSSBW



Test_Graph_LE2M_ANT1_2402_2Mbps_DTSSBW



Test_Graph_LE2M_ANT1_2440_2Mbps_DTSSBW



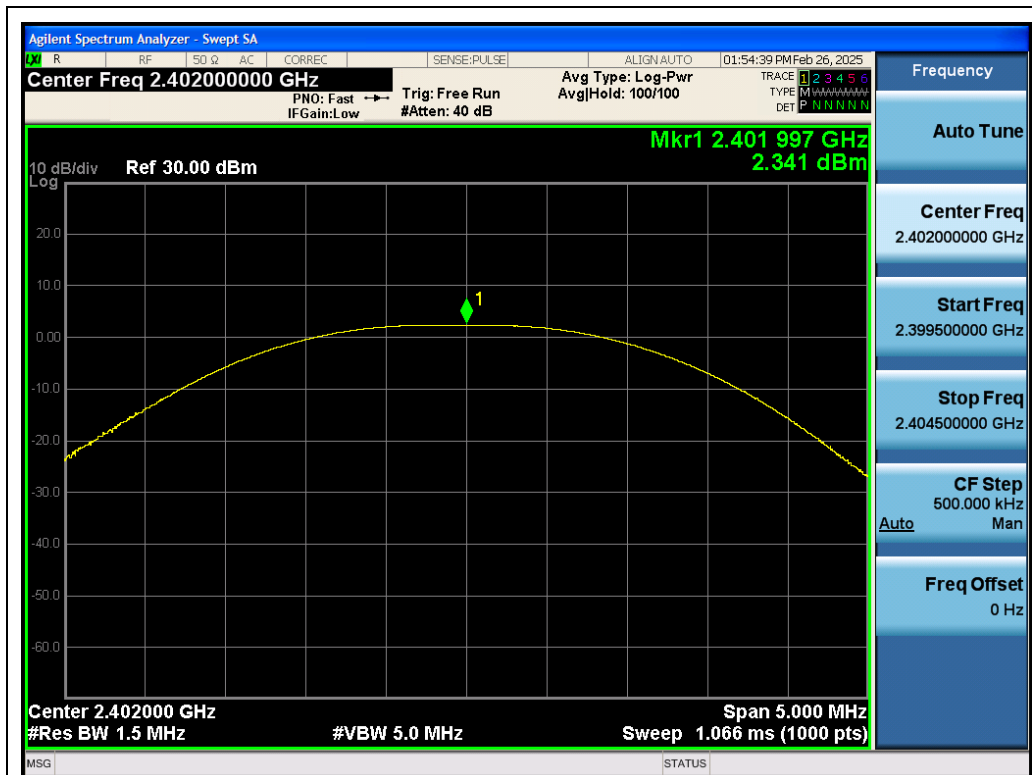
Test_Graph_LE2M_ANT1_2480_2Mbps_DTSSBW

Appendix B: Maximum peak conducted output power

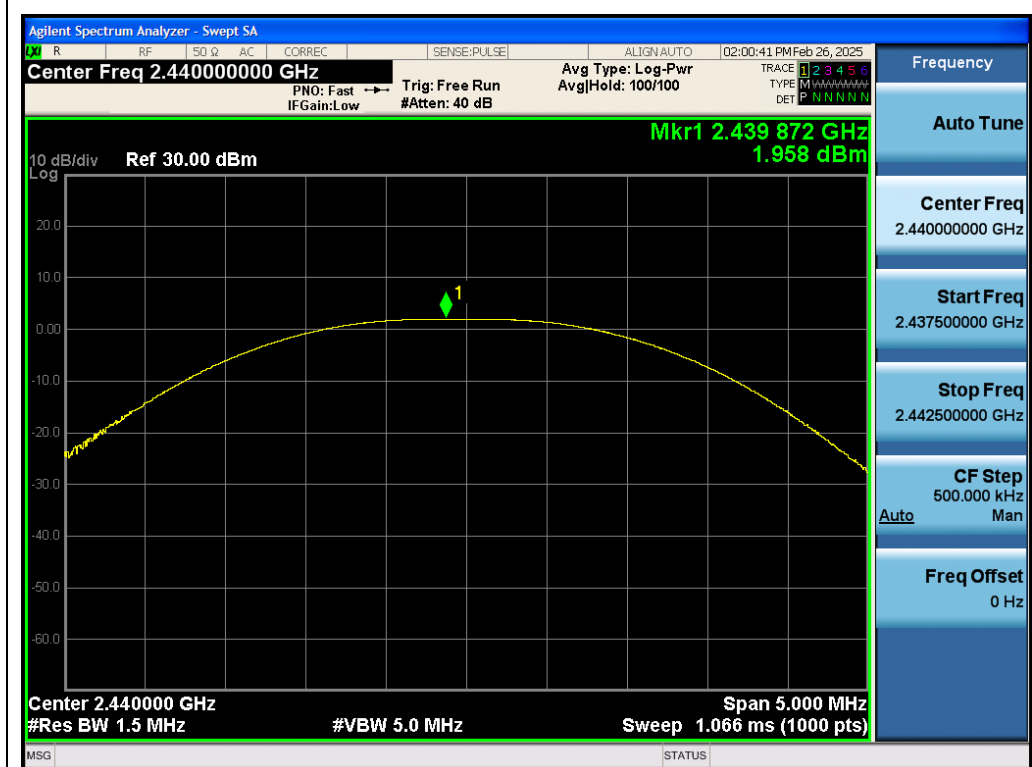
Test Result Peak

Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK_1Mbps	2402	2.341	≤ 30	Pass
	2440	1.958	≤ 30	Pass
	2480	1.468	≤ 30	Pass
GFSK_2Mbps	2402	2.204	≤ 30	Pass
	2440	1.859	≤ 30	Pass
	2480	1.400	≤ 30	Pass

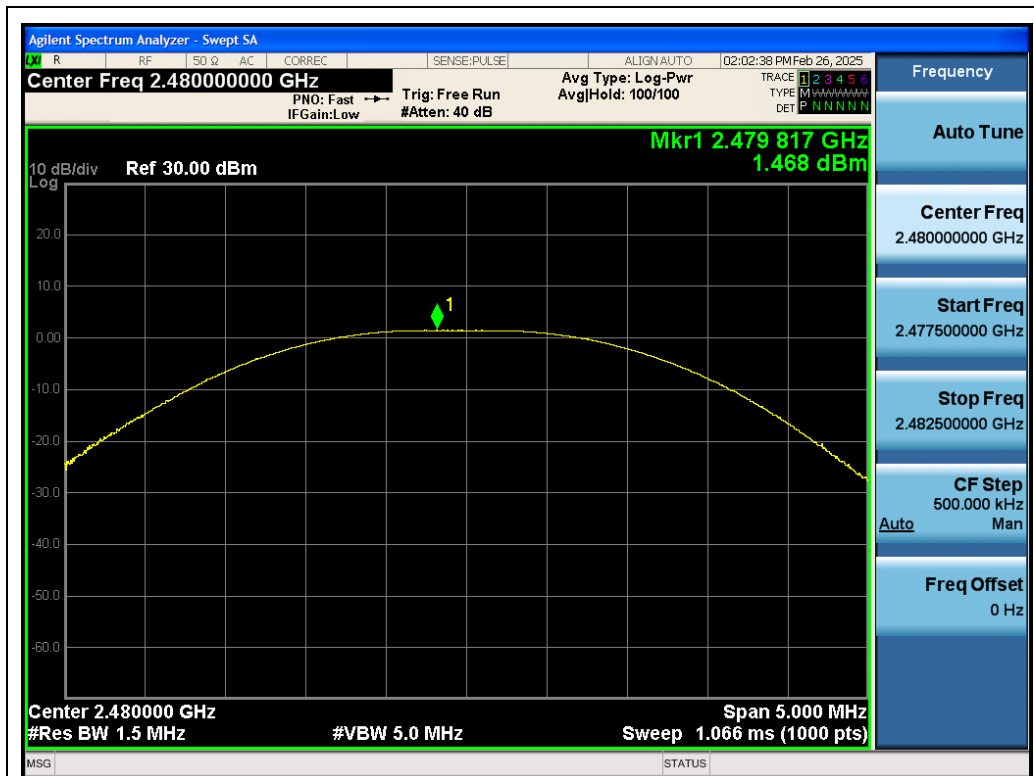
Test Graphs Peak



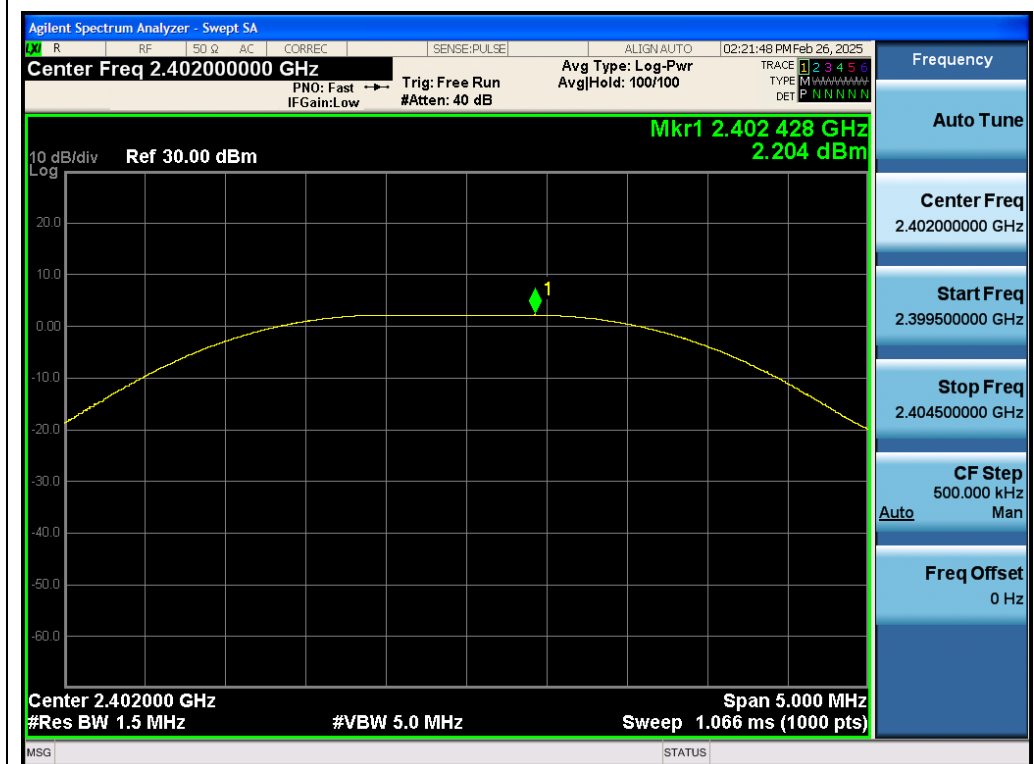
Test_Graph_LE1M_ANT1_2402_1Mbps_Peak Power



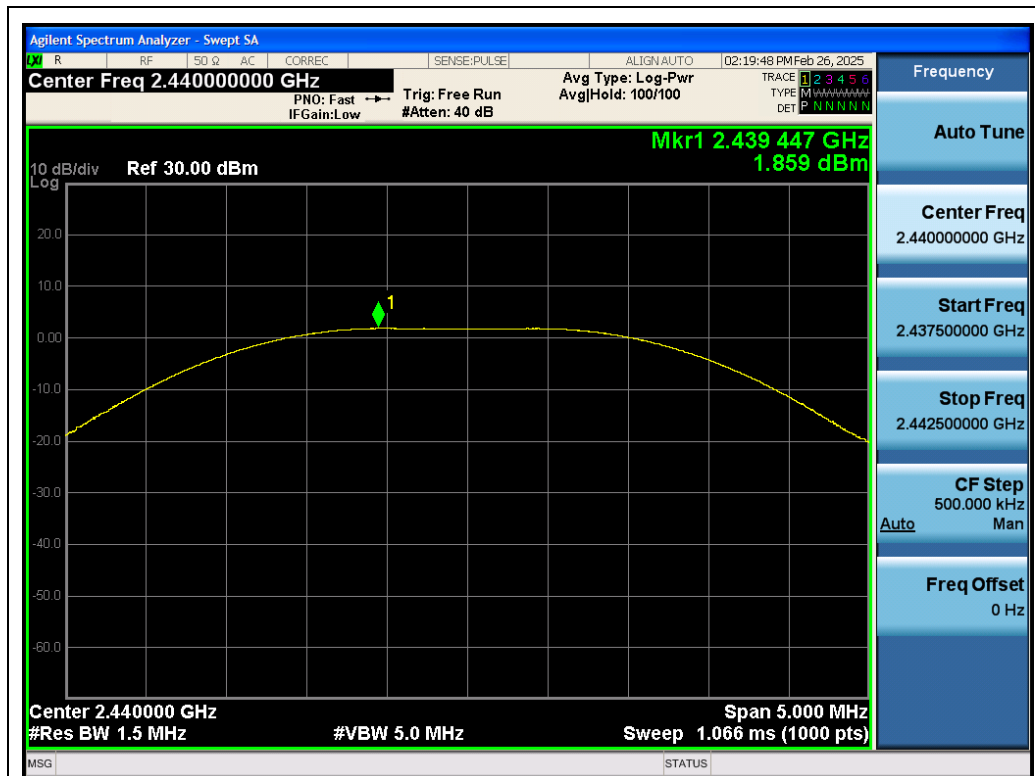
Test_Graph_LE1M_ANT1_2440_1Mbps_Peak Power



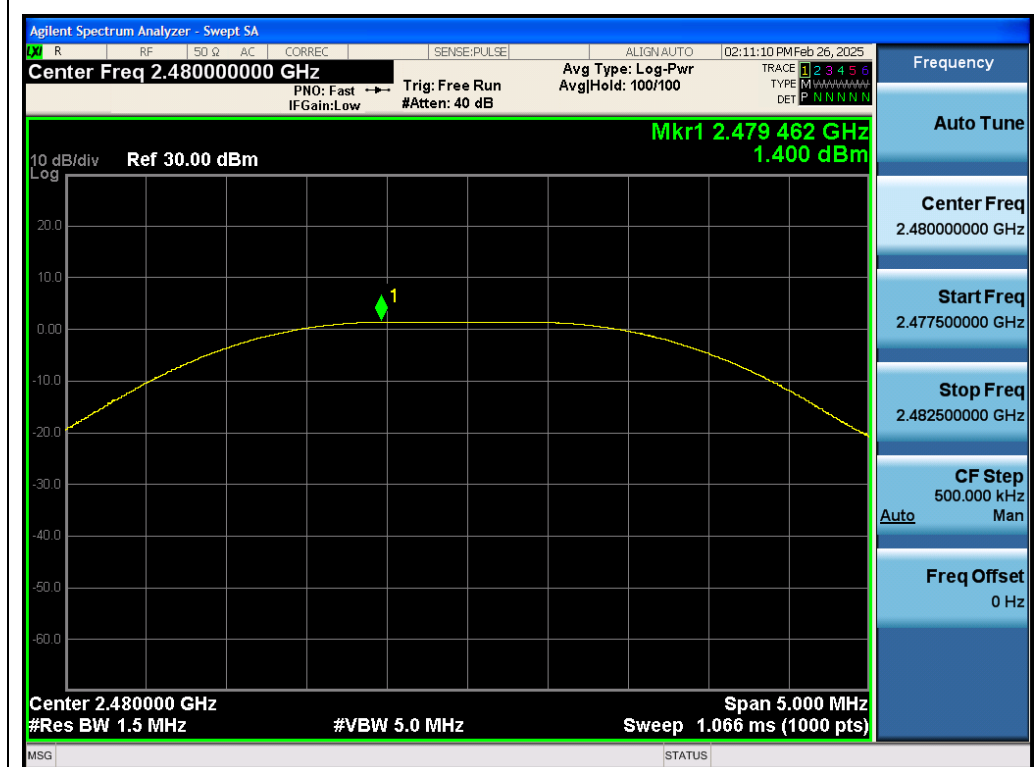
Test_Graph_LE1M_ANT1_2480_1Mbps_Peak Power



Test_Graph_LE2M_ANT1_2402_2Mbps_Peak Power



Test_Graph_LE2M_ANT1_2440_2Mbps_Peak Power



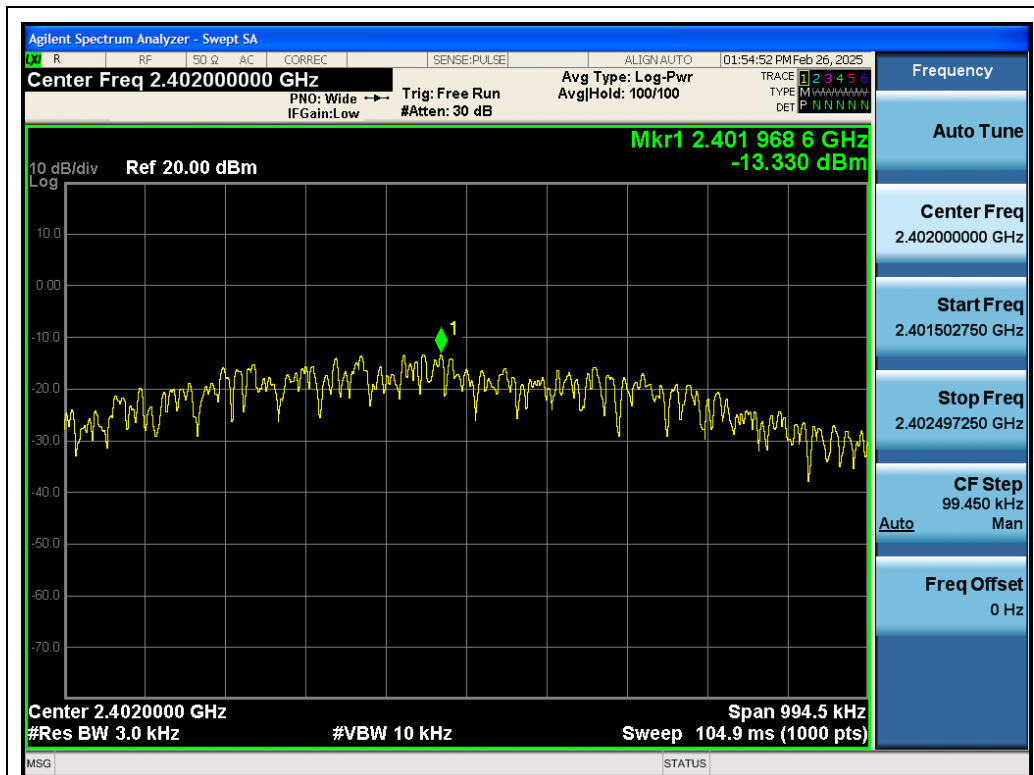
Test_Graph_LE2M_ANT1_2480_2Mbps_Peak Power

Appendix C: Maximum peak power spectral density

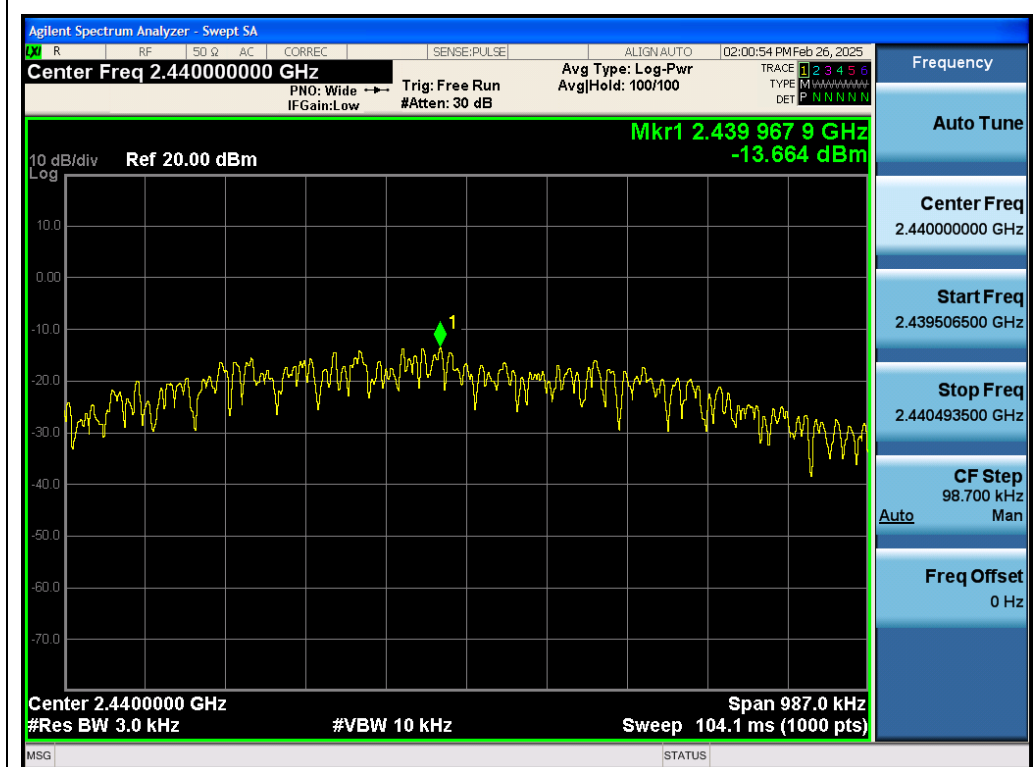
Test Result

Test Mode	Test Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK_1Mbps	2402	-13.330	≤ 8	Pass
	2440	-13.664	≤ 8	Pass
	2480	-14.056	≤ 8	Pass
GFSK_2Mbps	2402	-14.635	≤ 8	Pass
	2440	-15.017	≤ 8	Pass
	2480	-15.328	≤ 8	Pass

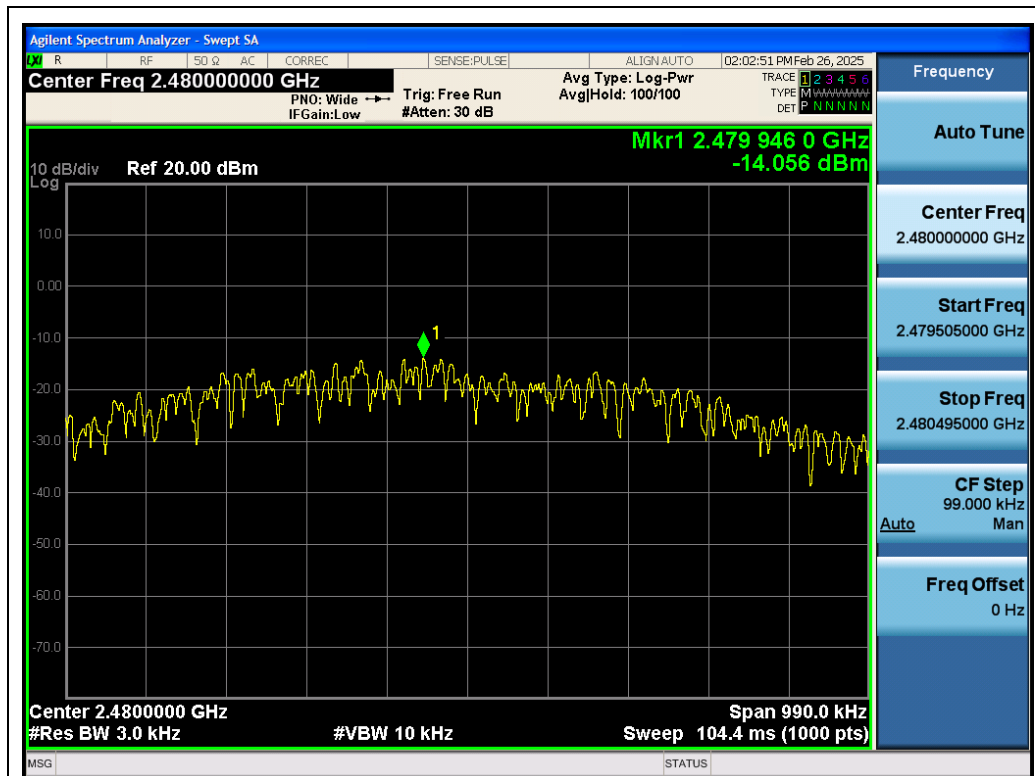
Test Graphs



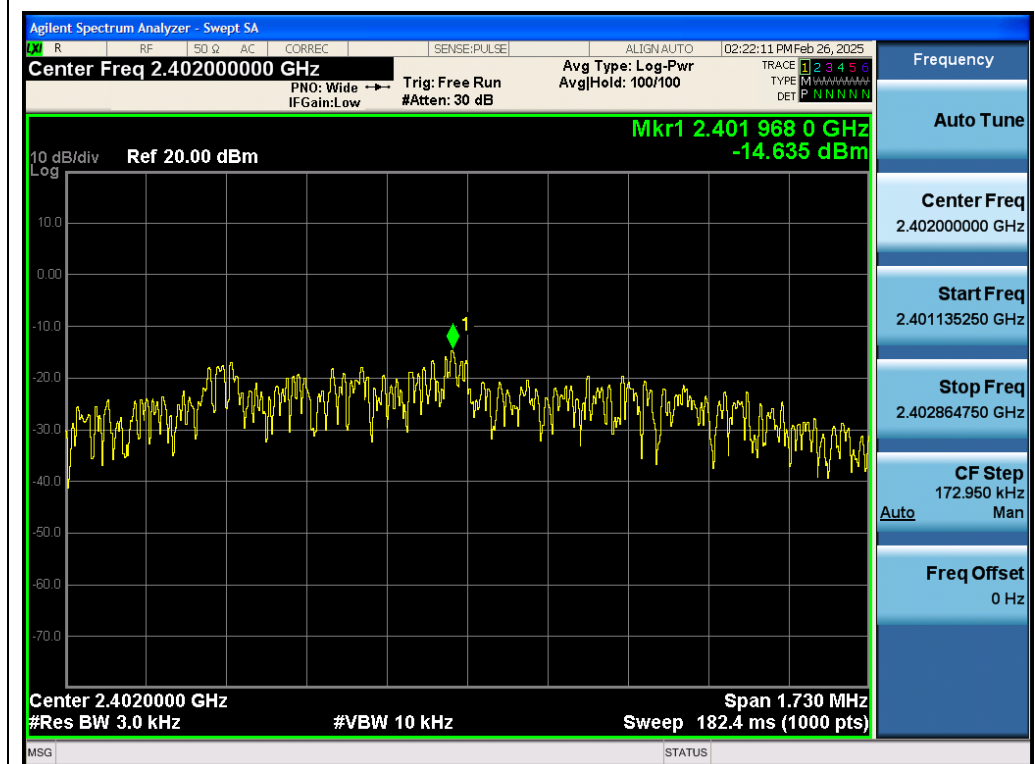
Test_Graph_LE1M_ANT1_2402_1Mbps_PSD



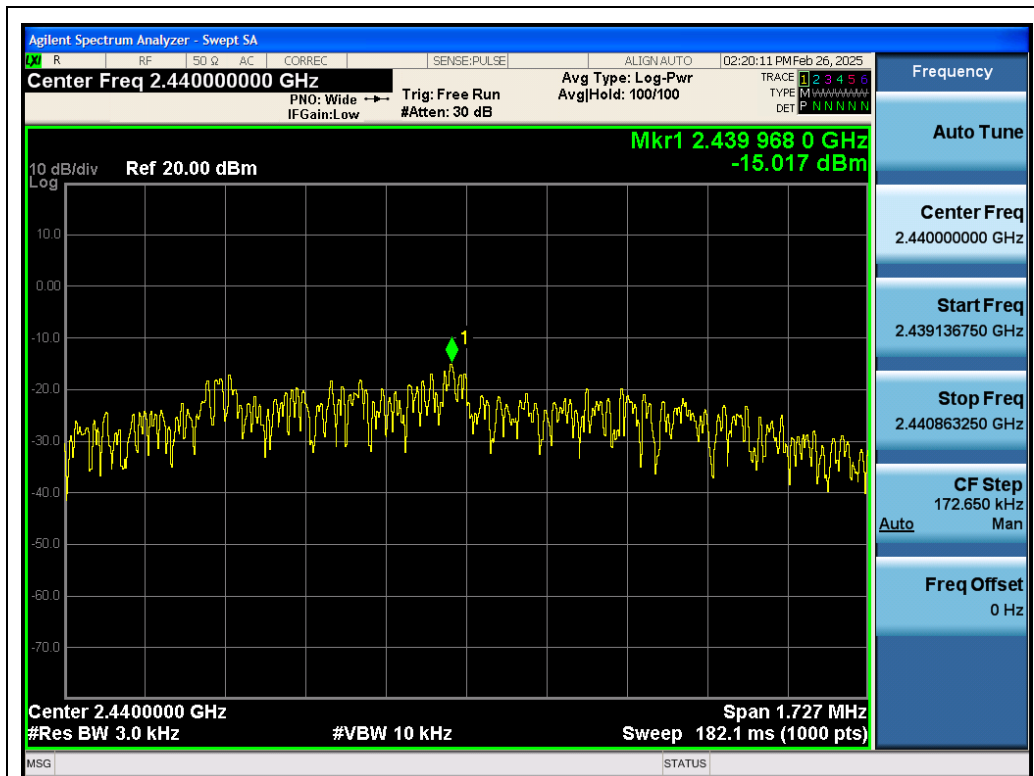
Test_Graph_LE1M_ANT1_2440_1Mbps_PSD



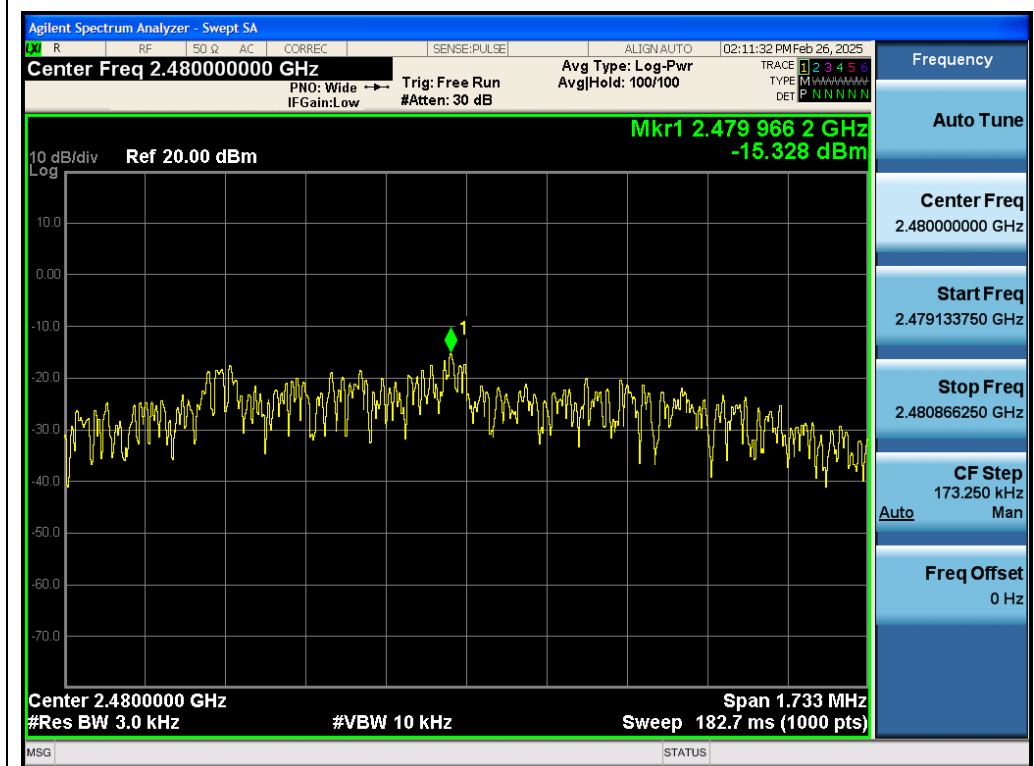
Test_Graph_LE1M_ANT1_2480_1Mbps_PSD



Test_Graph_LE2M_ANT1_2402_2Mbps_PSD



Test_Graph_LE2M_ANT1_2440_2Mbps_PSD



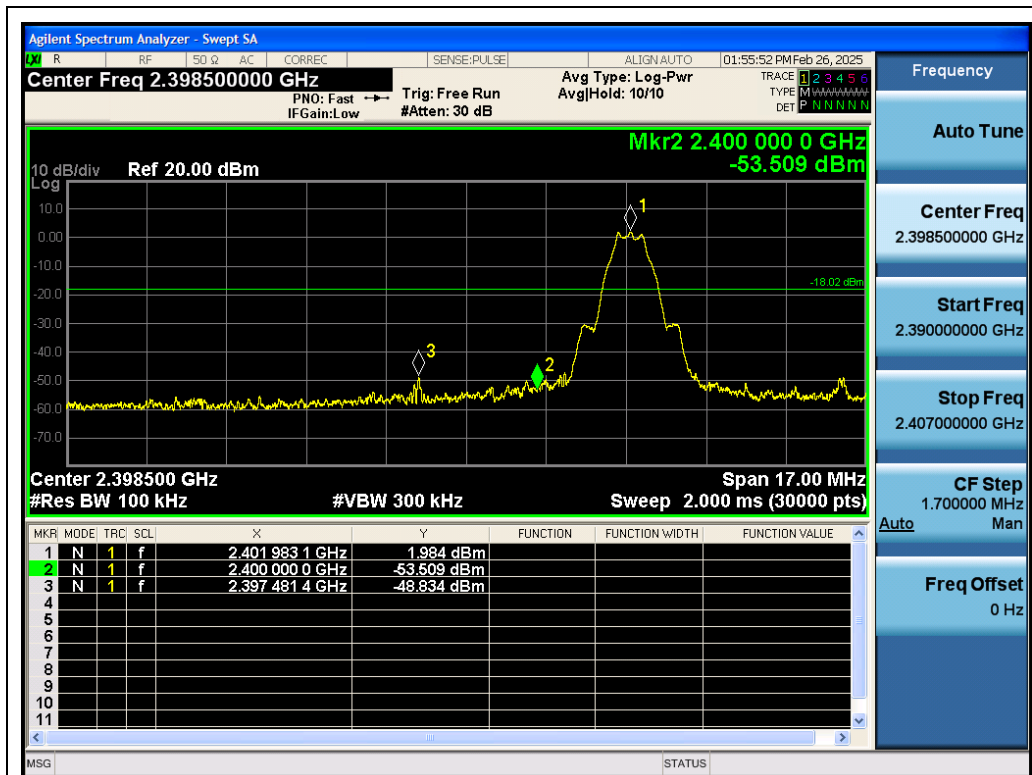
Test_Graph_LE2M_ANT1_2480_2Mbps_PSD

Appendix D: Band edge measurements

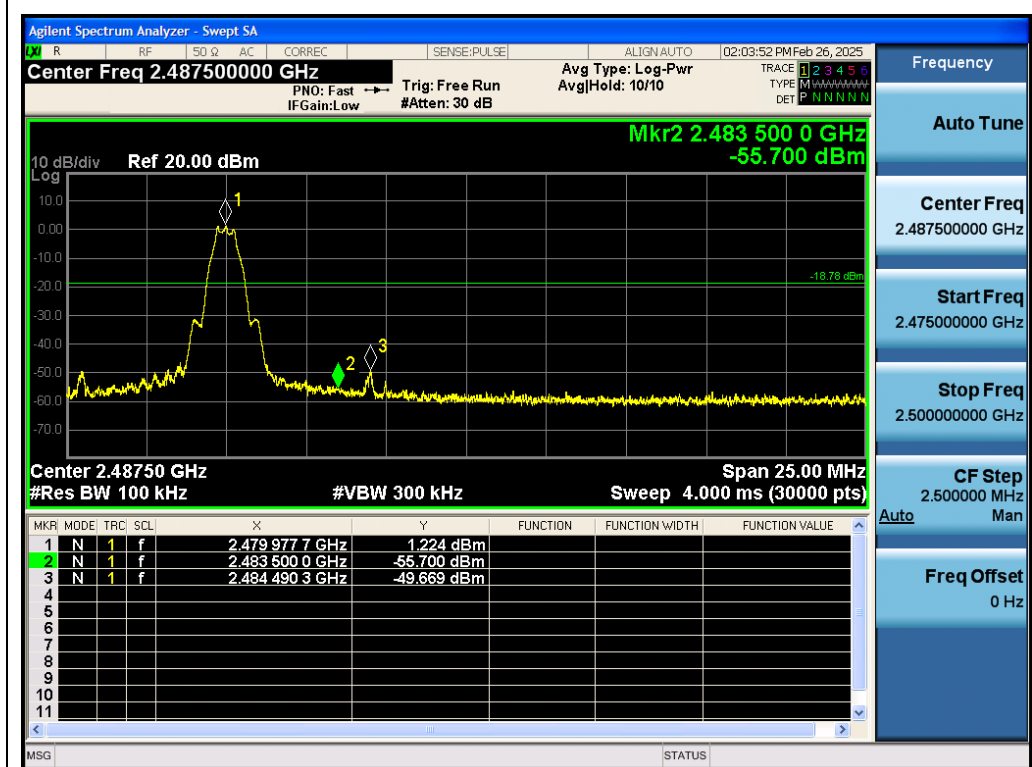
Test Result

Test Mode	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
GFSK_1Mbps	Low	2402	1.984	-53.509	≤ -18.02	Pass
GFSK_1Mbps	High	2480	1.224	-55.700	≤ -18.78	Pass
GFSK_2Mbps	Low	2402	1.726	-32.629	≤ -18.27	Pass
GFSK_2Mbps	High	2480	1.269	-56.231	≤ -18.73	Pass

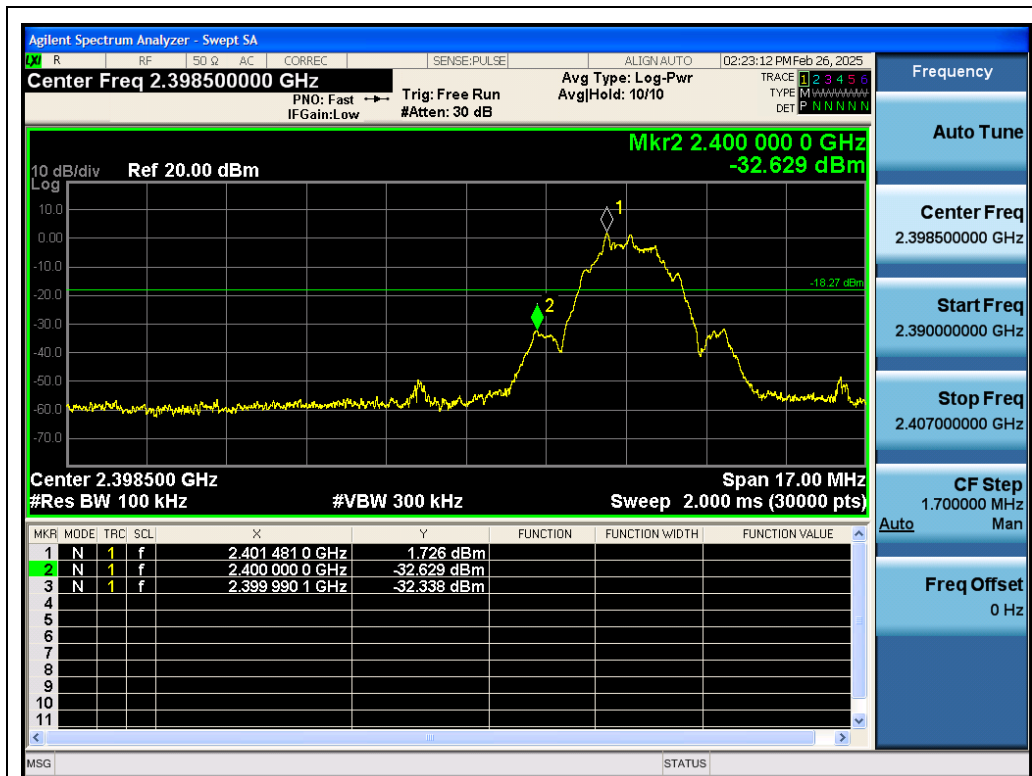
Test Graphs



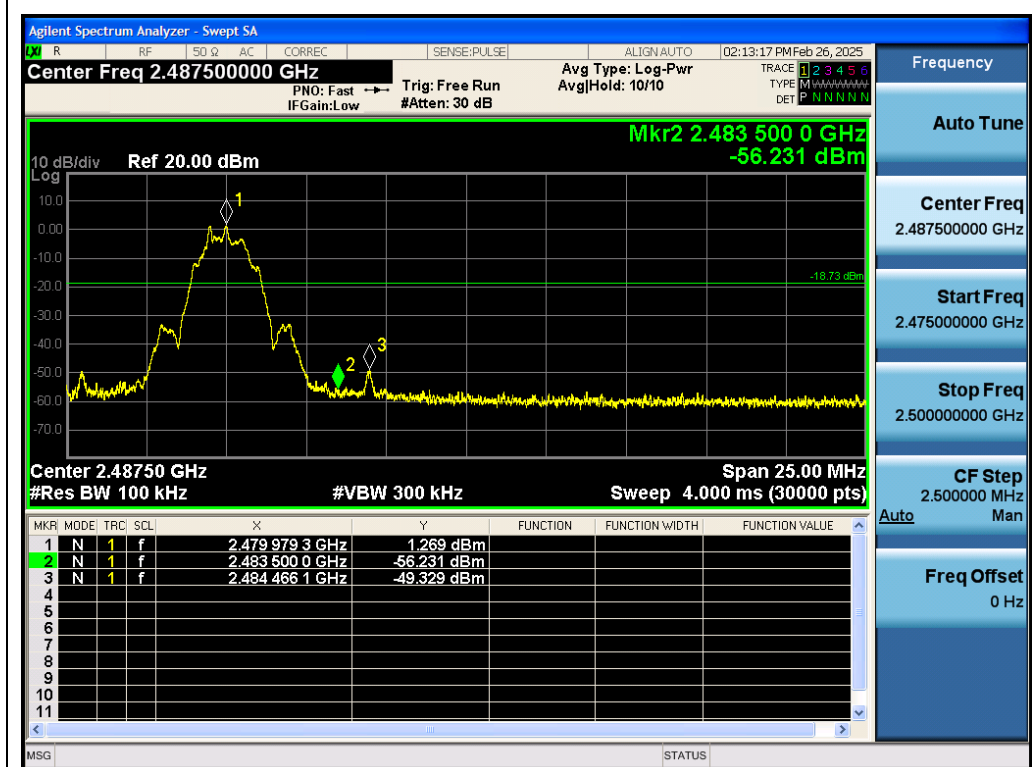
Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Edge Emissions



Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Edge Emissions



Test_Graph_LE2M_ANT1_2402_2Mbps_Lower Band Edge Emissions



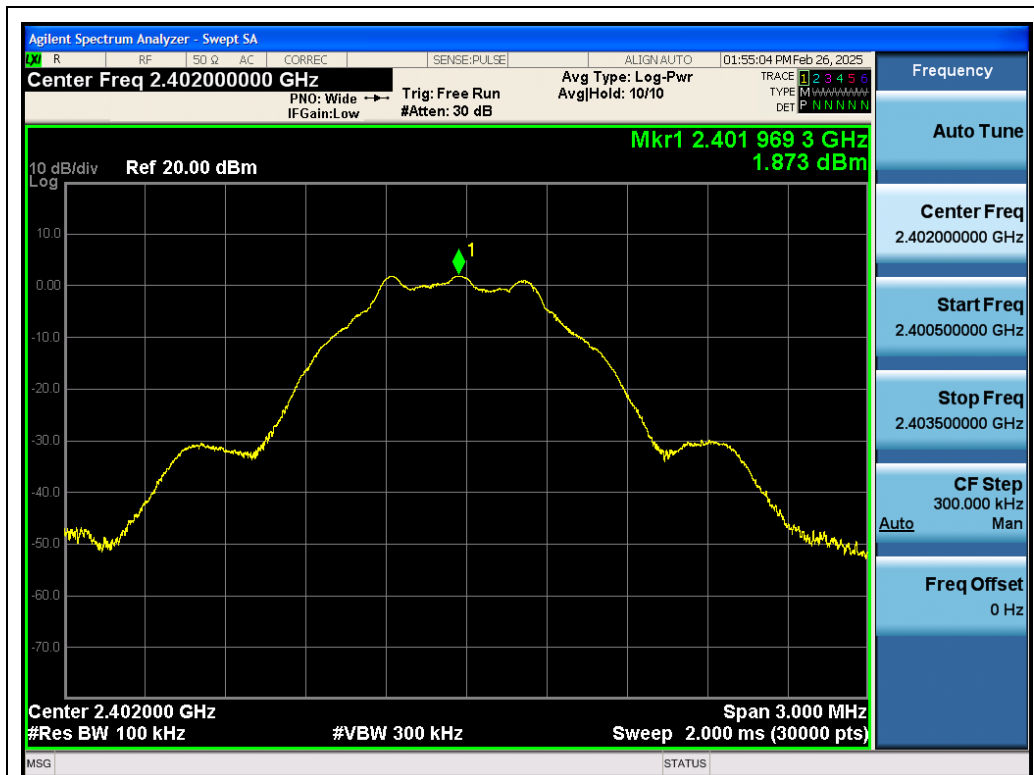
Test_Graph_LE2M_ANT1_2480_2Mbps_Higher Band Edge Emissions

Appendix E: Conducted Spurious Emission

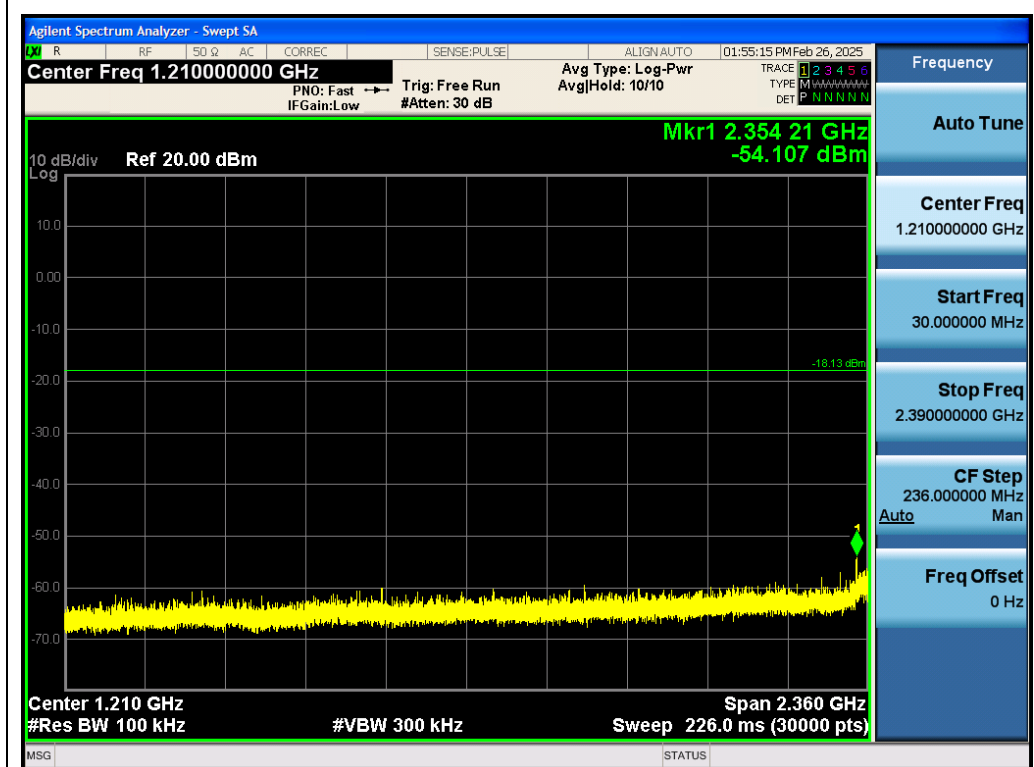
Test Result

Test Mode	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
GFSK_1Mbps	2402	0~Reference	1.873	1.873	---	Pass
GFSK_1Mbps	2402	30~2390	1.873	-54.107	≤ -18.13	Pass
GFSK_1Mbps	2402	2483.5~25000	1.873	-40.359	≤ -18.13	Pass
GFSK_1Mbps	2440	0~Reference	1.559	1.559	---	Pass
GFSK_1Mbps	2440	30~2400	1.559	-52.186	≤ -18.44	Pass
GFSK_1Mbps	2440	2483.5~25000	1.559	-42.140	≤ -18.44	Pass
GFSK_1Mbps	2480	0~Reference	1.127	1.127	---	Pass
GFSK_1Mbps	2480	30~2400	1.127	-56.185	≤ -18.87	Pass
GFSK_1Mbps	2480	2500~26500	1.127	-41.460	≤ -18.87	Pass
GFSK_2Mbps	2402	0~Reference	1.847	1.847	---	Pass
GFSK_2Mbps	2402	30~2390	1.847	-55.048	≤ -18.15	Pass
GFSK_2Mbps	2402	2483.5~25000	1.847	-47.296	≤ -18.15	Pass
GFSK_2Mbps	2440	0~Reference	1.566	1.566	---	Pass
GFSK_2Mbps	2440	30~2400	1.566	-56.001	≤ -18.43	Pass
GFSK_2Mbps	2440	2483.5~25000	1.566	-45.244	≤ -18.43	Pass
GFSK_2Mbps	2480	0~Reference	1.165	1.165	---	Pass
GFSK_2Mbps	2480	30~2400	1.165	-58.144	≤ -18.84	Pass
GFSK_2Mbps	2480	2500~26500	1.165	-40.284	≤ -18.84	Pass

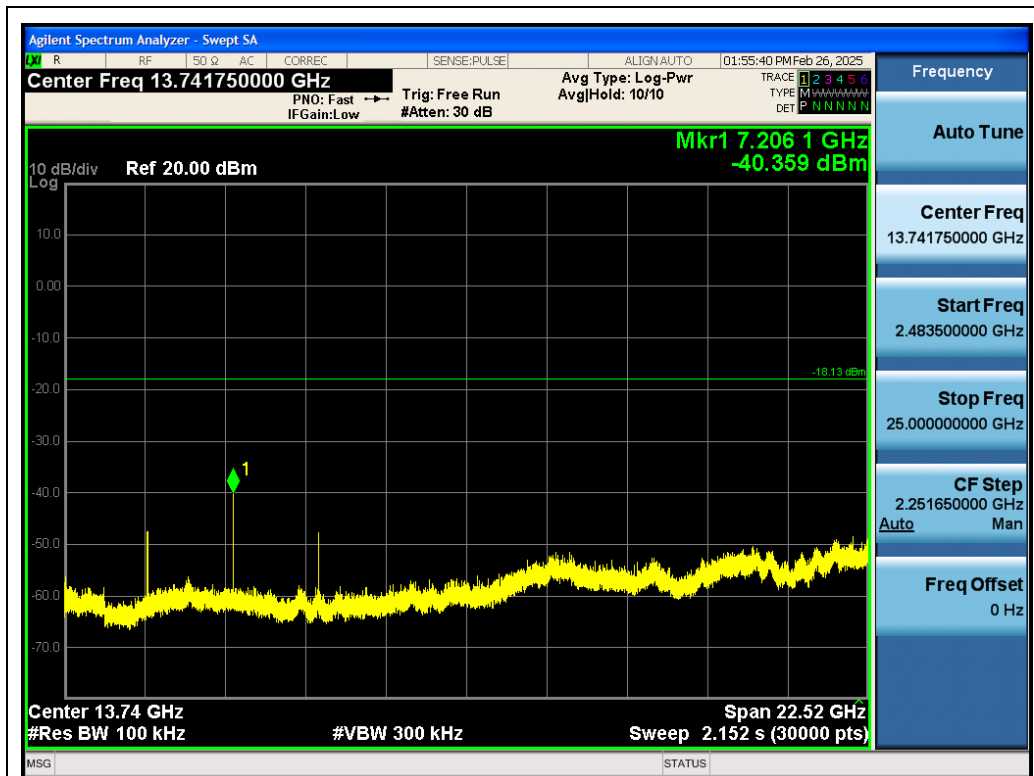
Test Graphs



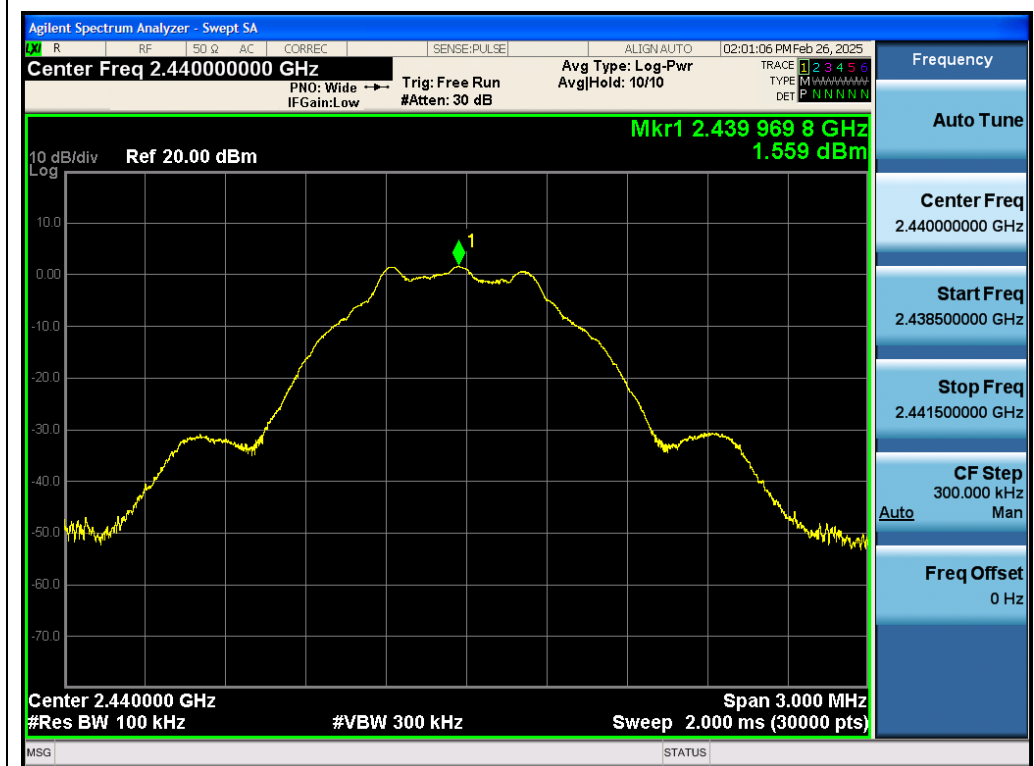
Test_Graph_LE1M_ANT1_2402_1Mbps_Reference Level



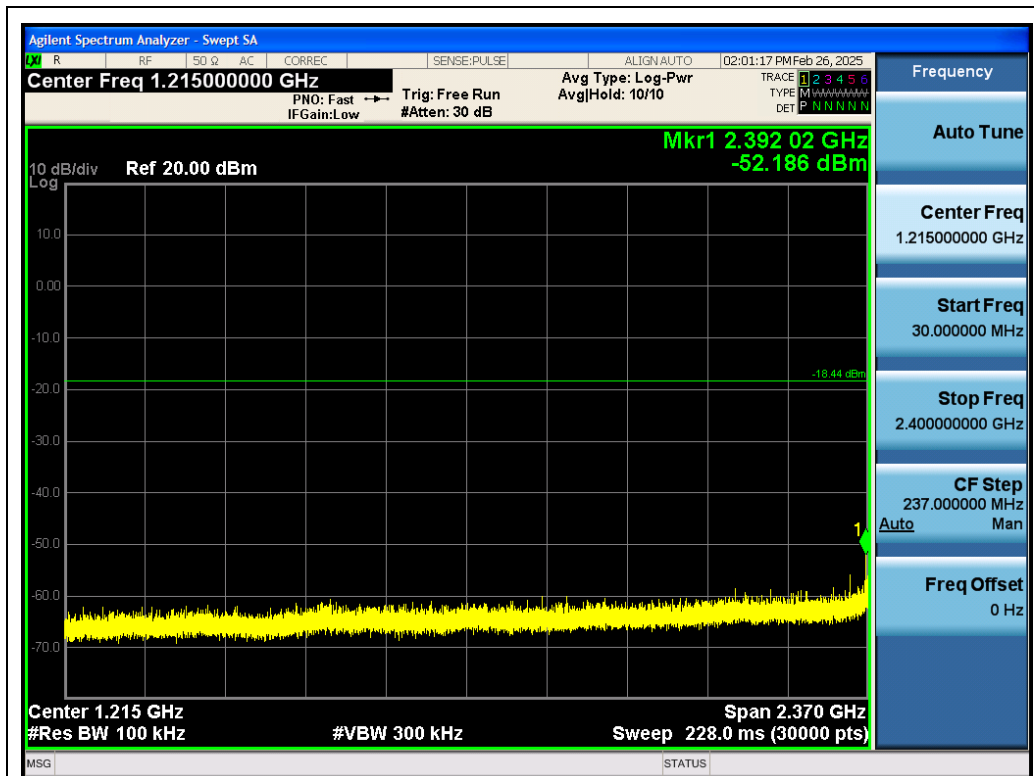
Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Emissions



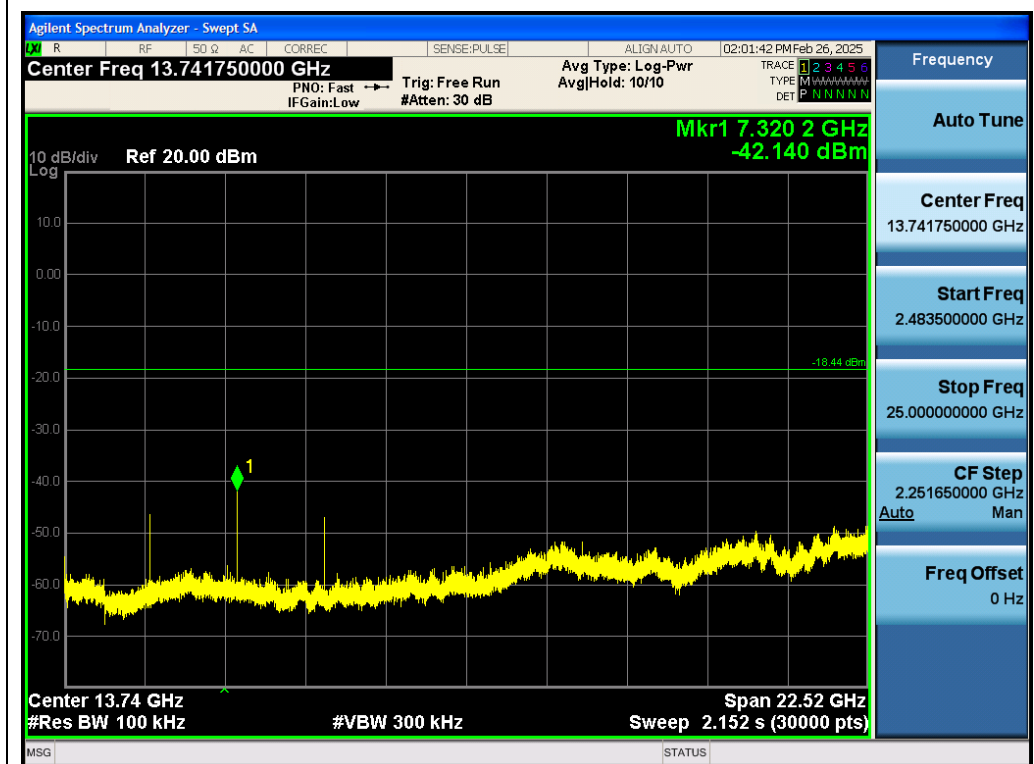
Test_Graph_LE1M_ANT1_2402_1Mbps_Higher Band Emissions



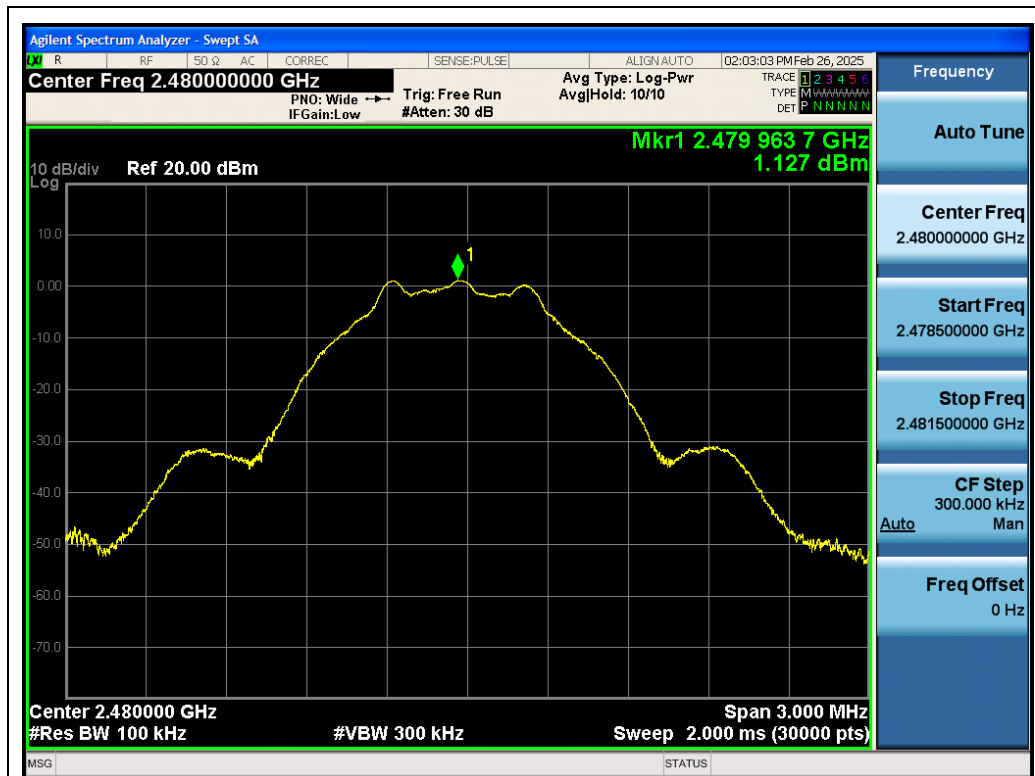
Test_Graph_LE1M_ANT1_2440_1Mbps_Reference Level



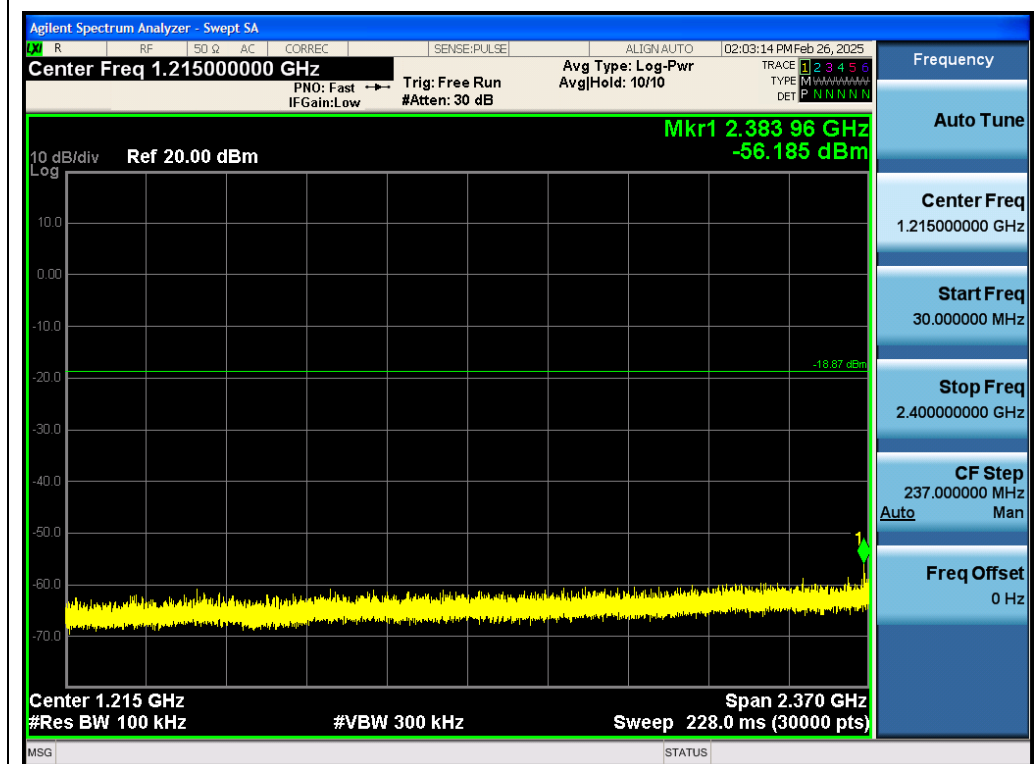
Test_Graph_LE1M_ANT1_2440_1Mbps_Lower Band Emissions



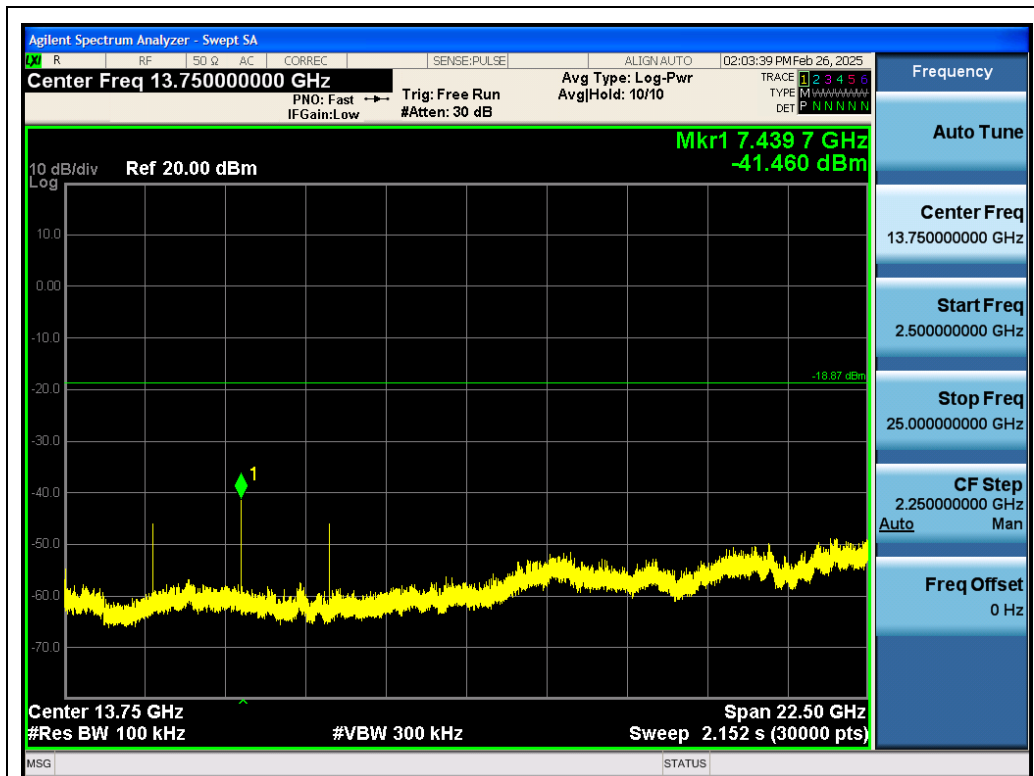
Test_Graph_LE1M_ANT1_2440_1Mbps_Higher Band Emissions



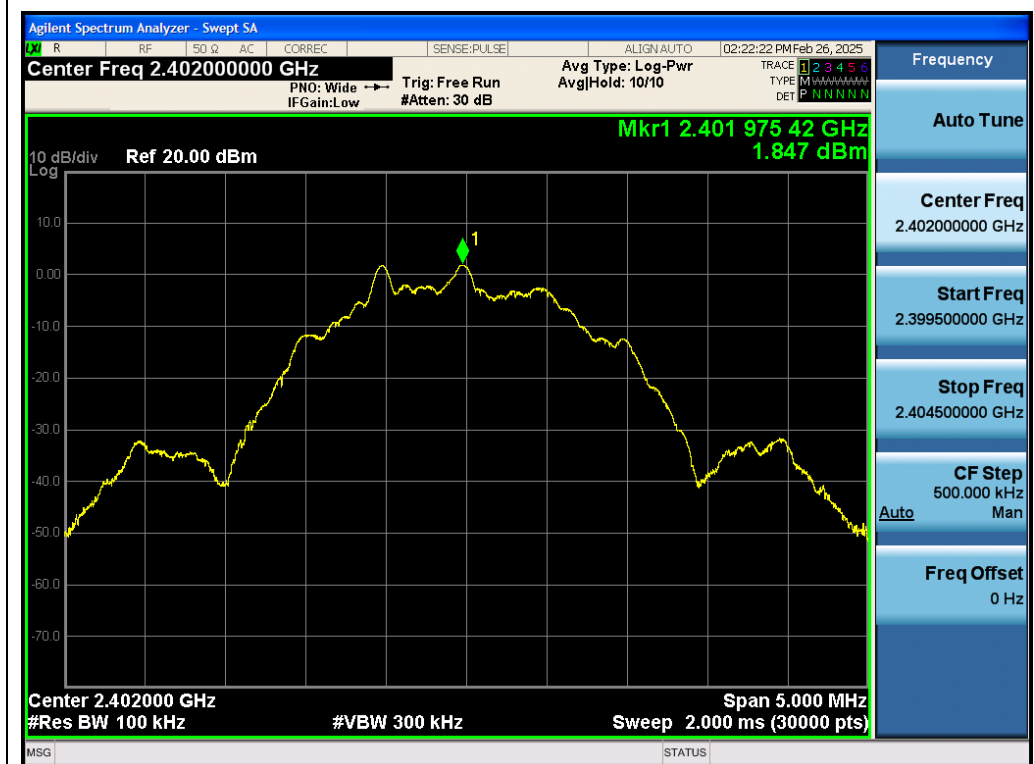
Test_Graph_LE1M_ANT1_2480_1Mbps_Reference Level



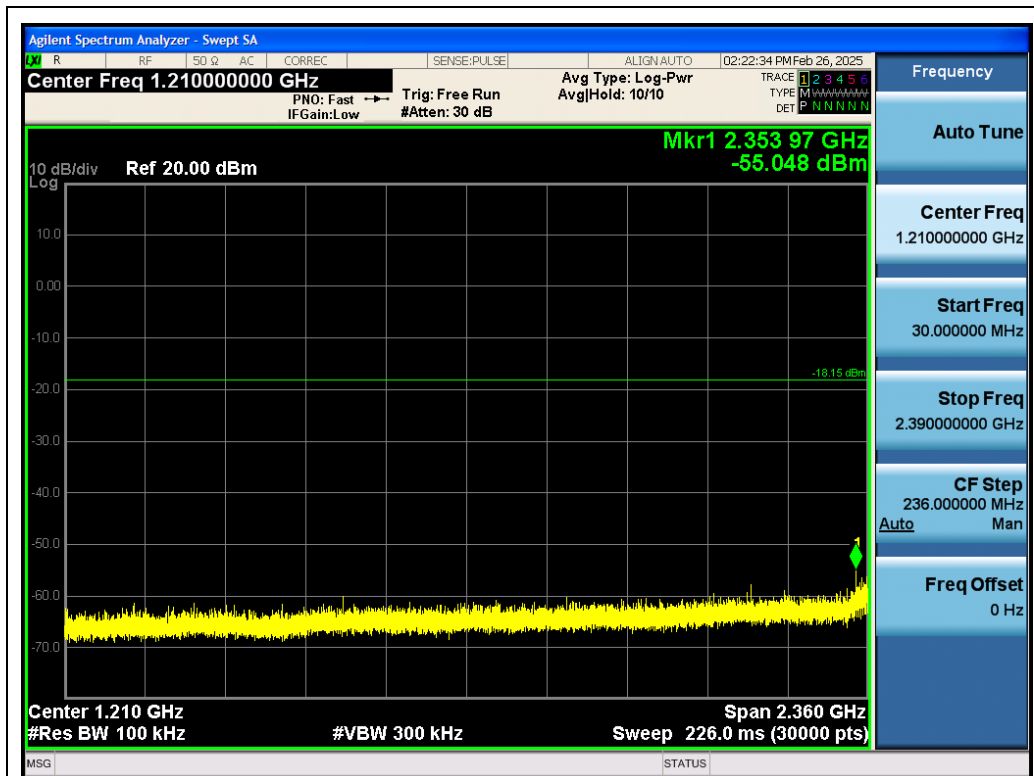
Test_Graph_LE1M_ANT1_2480_1Mbps_Lower Band Emissions



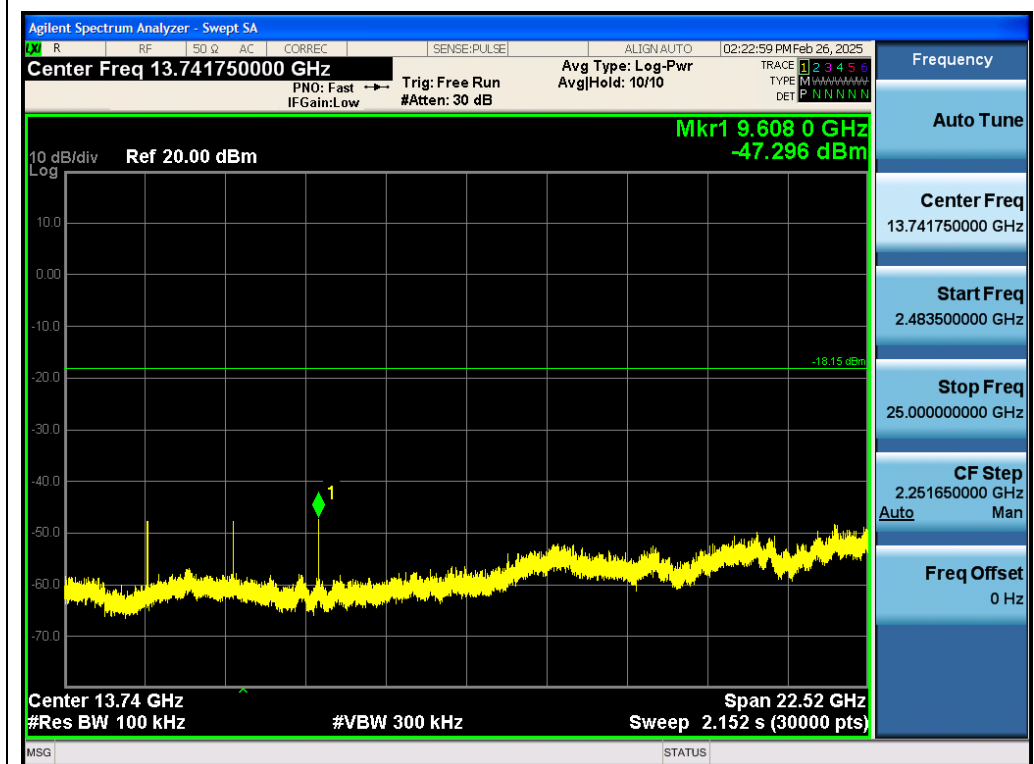
Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Emissions



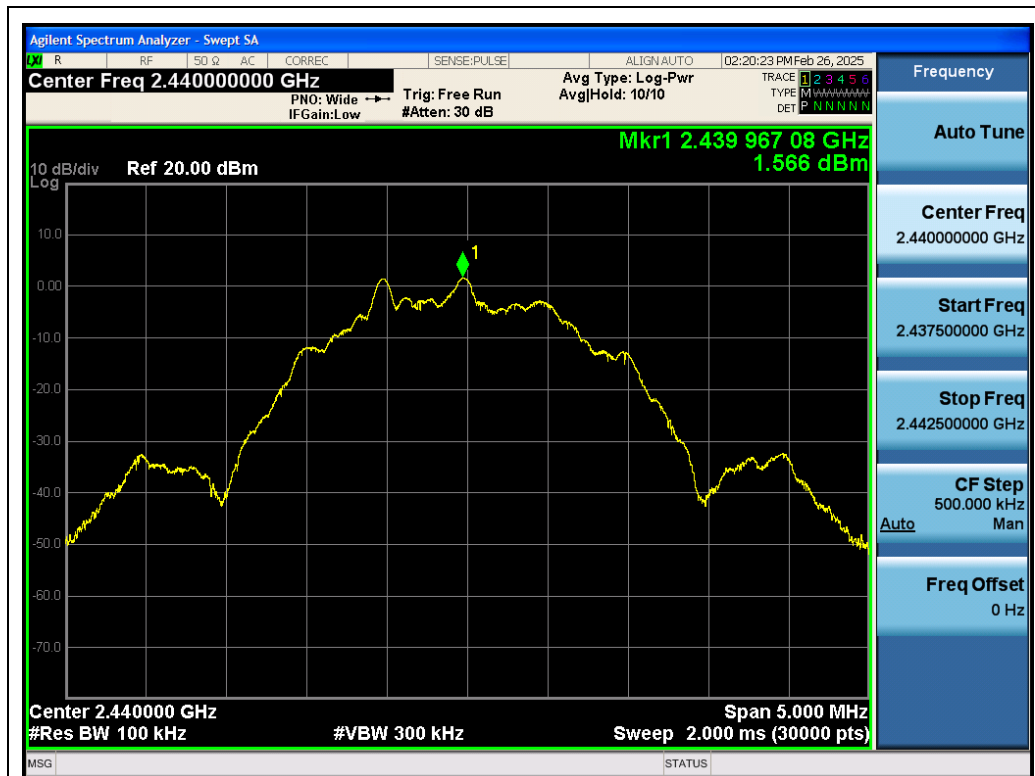
Test_Graph_LE2M_ANT1_2402_2Mbps_Reference Level



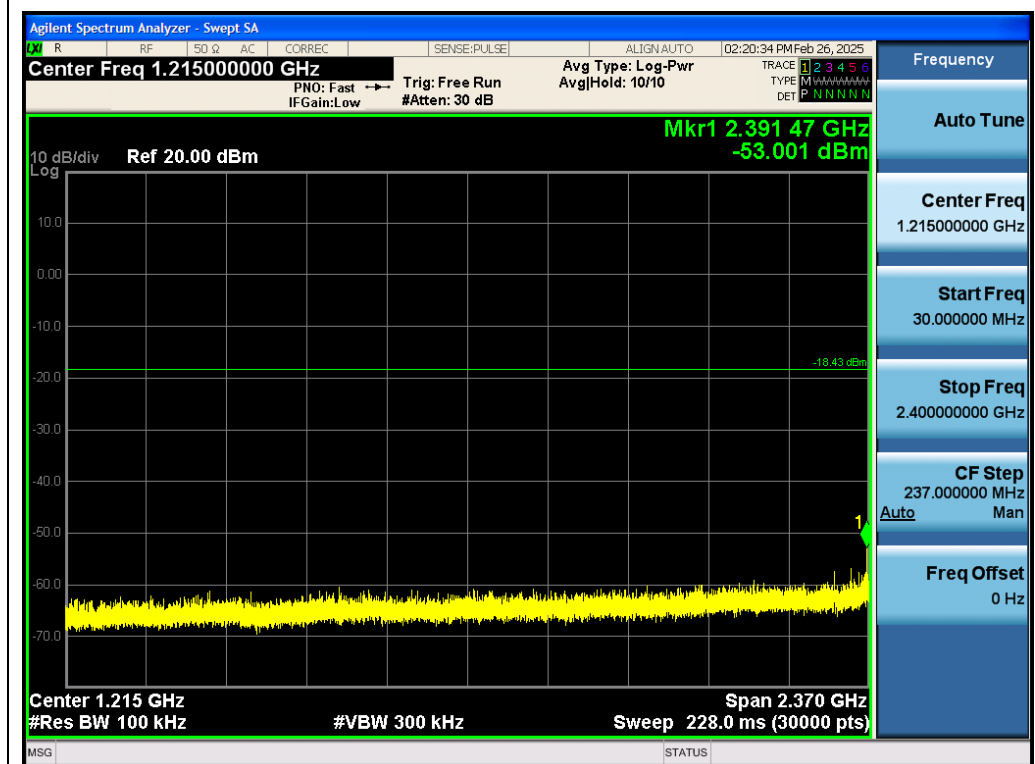
Test_Graph_LE2M_ANT1_2402_2Mbps_Lower Band Emissions



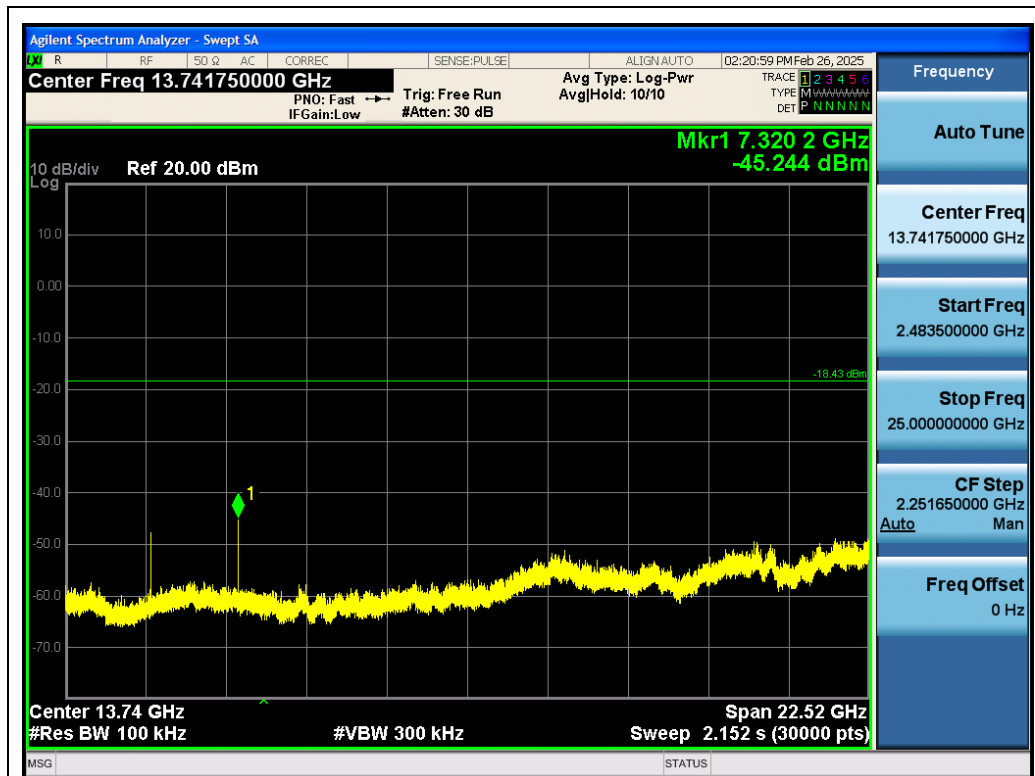
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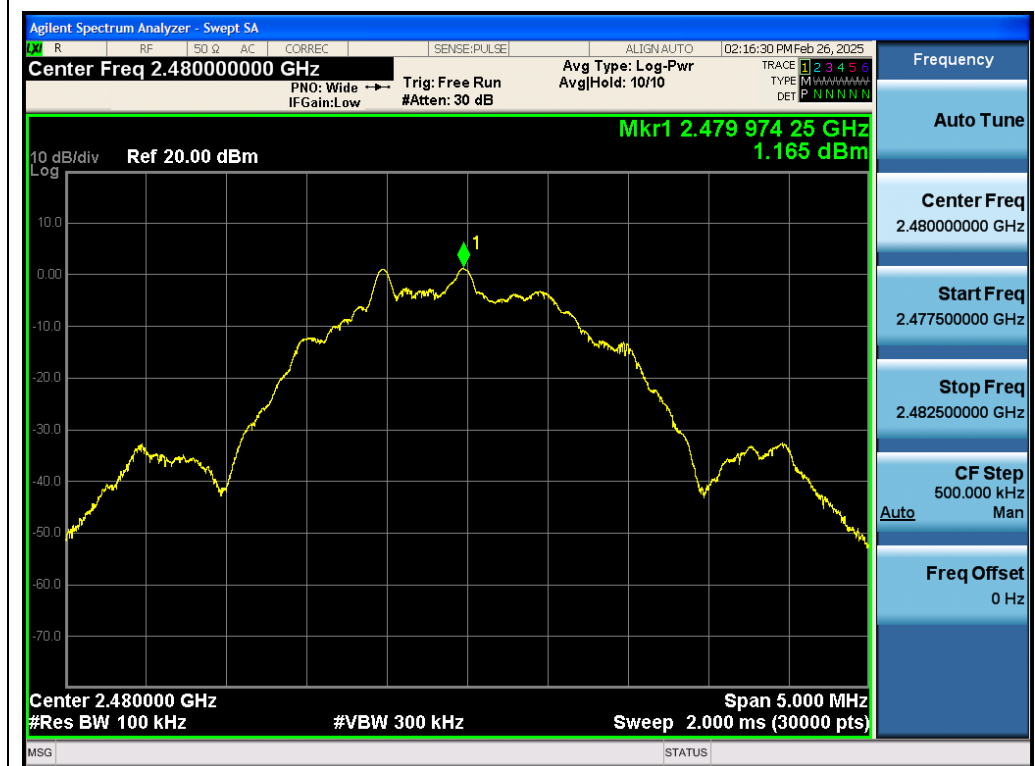
Test_Graph_LE2M_ANT1_2440_2Mbps_Reference Level



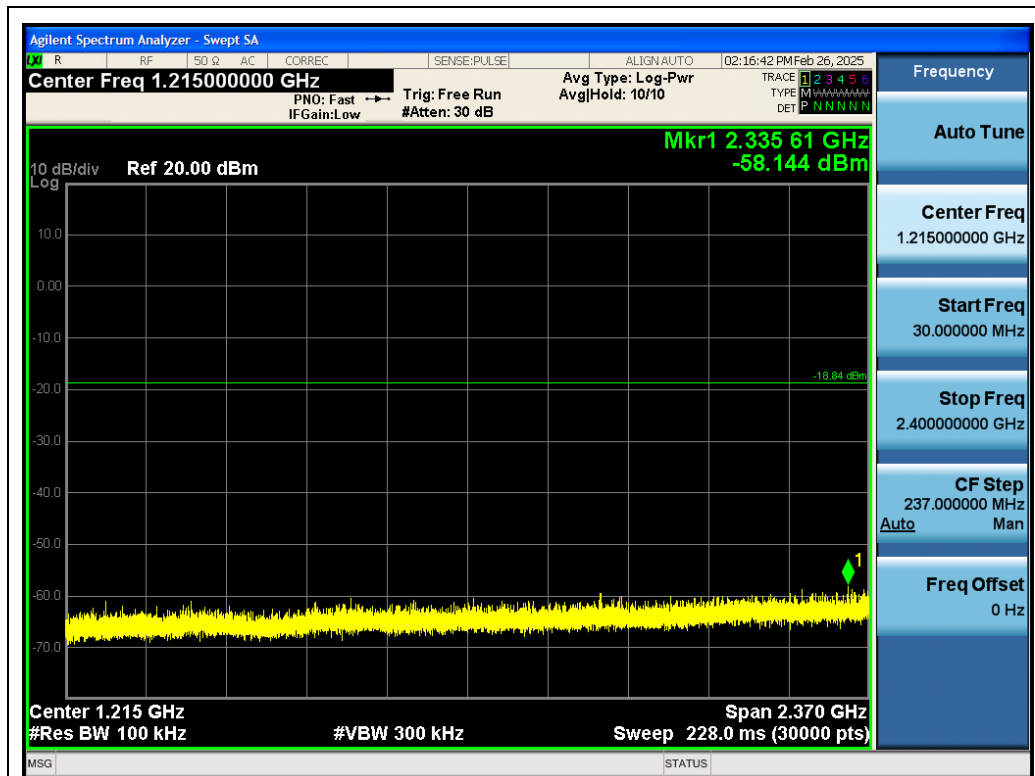
Test_Graph_LE2M_ANT1_2440_2Mbps_Lower Band Emissions



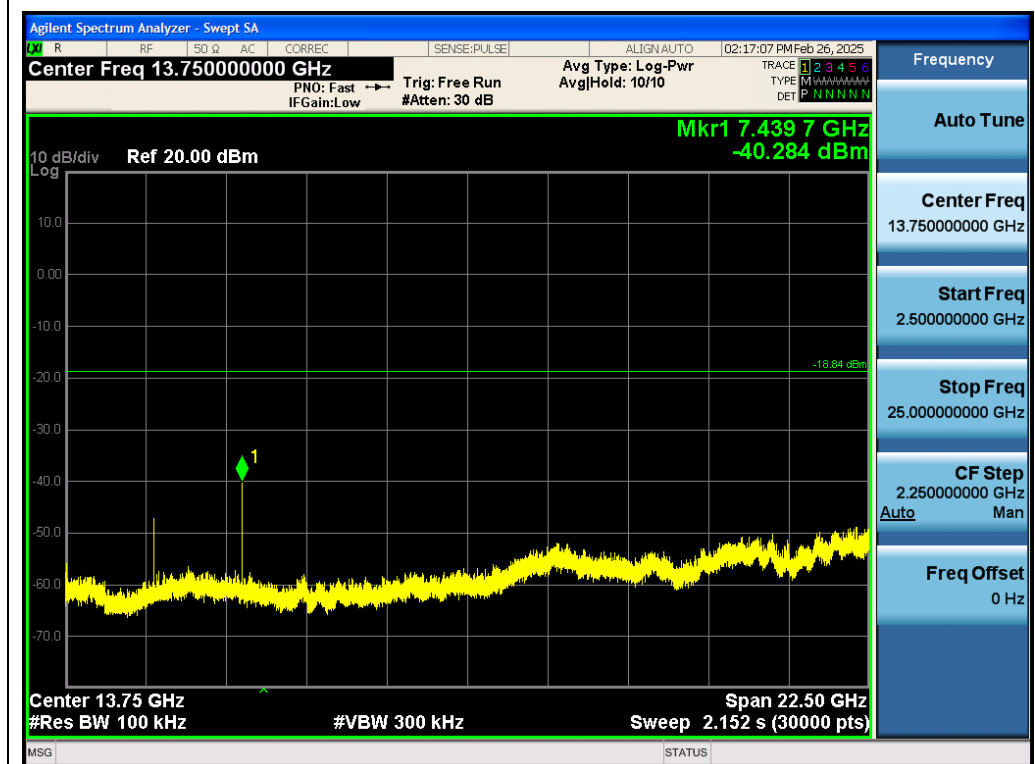
Test_Graph_LE2M_ANT1_2440_2Mbps_Higher Band Emissions



Test_Graph_LE2M_ANT1_2480_2Mbps_Reference Level



Test_Graph_LE2M_ANT1_2480_2Mbps_Lower Band Emissions



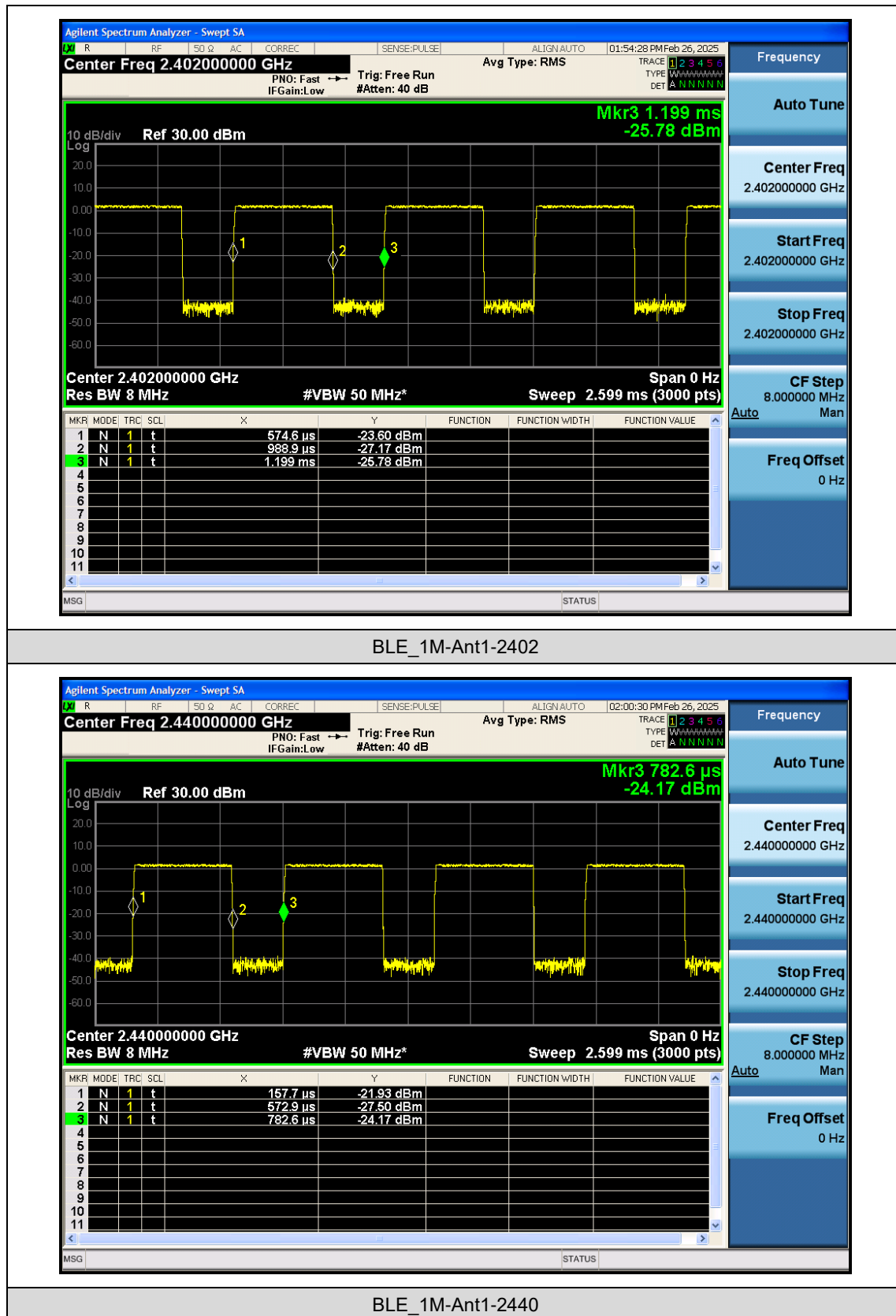
Test_Graph_LE2M_ANT1_2480_2Mbps_Higher Band Emissions

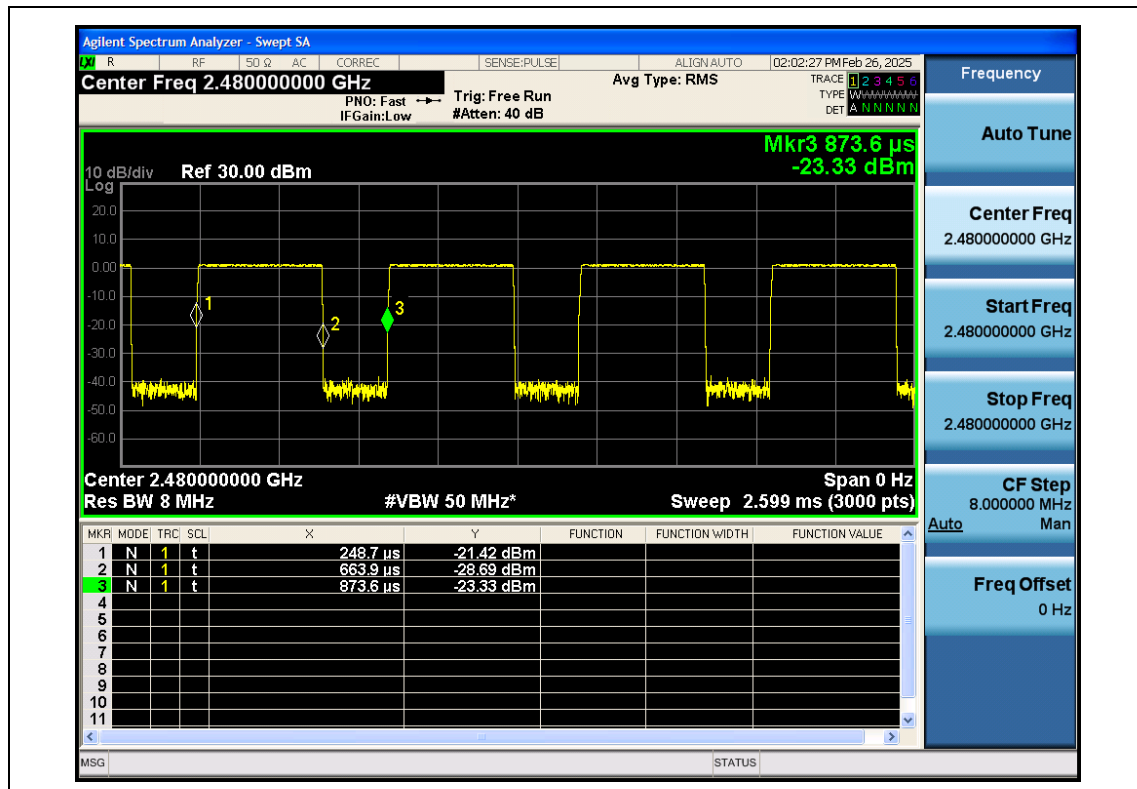
Appendix F: Duty Cycle

Test Result

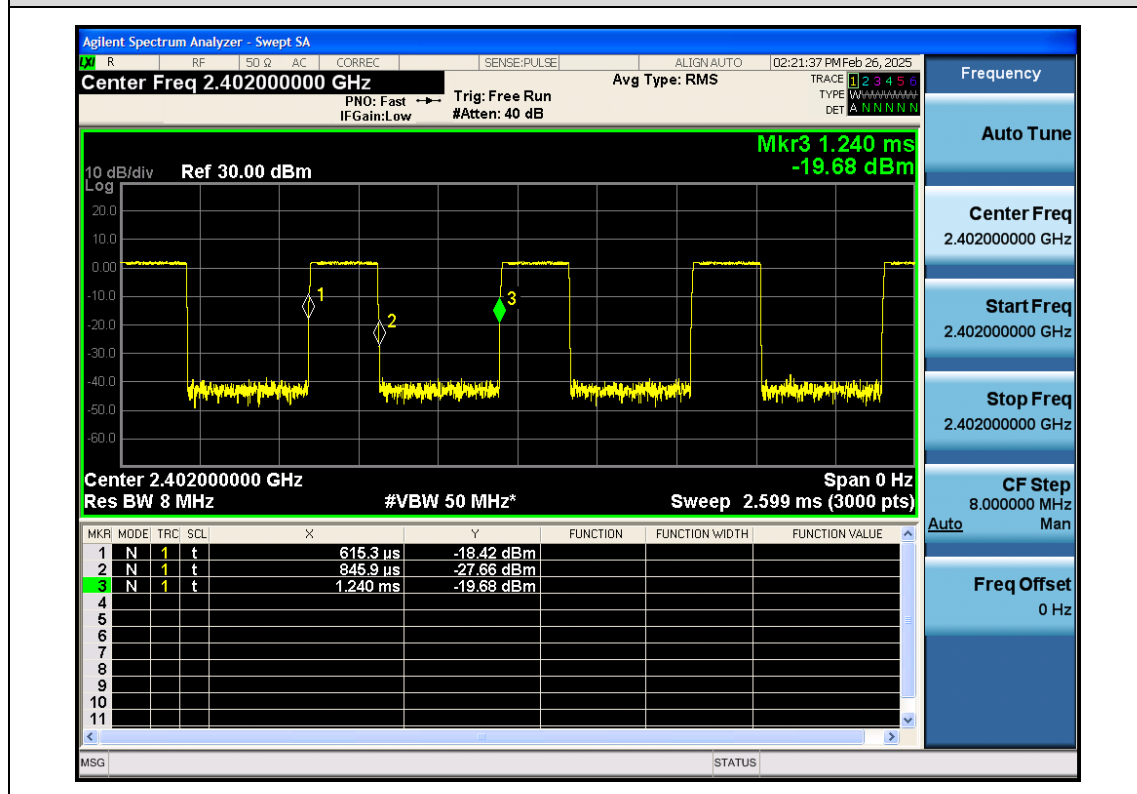
Test Mode	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
GFSK_1Mbps	2402	41.43	62.44	66.35	1.8
GFSK_1Mbps	2440	41.52	62.49	66.44	1.8
GFSK_1Mbps	2480	41.52	62.49	66.44	1.8
GFSK_2Mbps	2402	23.06	62.47	36.91	4.32
GFSK_2Mbps	2440	23.05	62.57	36.83	4.32
GFSK_2Mbps	2480	23.06	62.53	36.88	4.32

Test Graphs

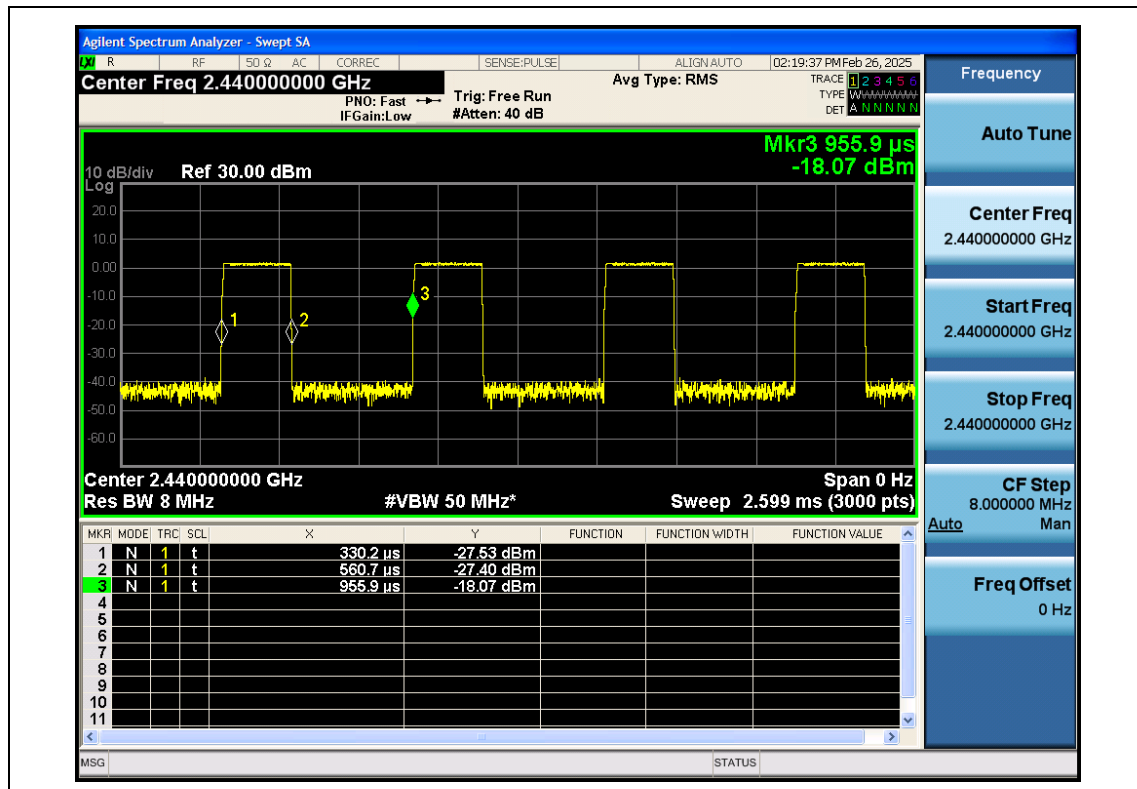




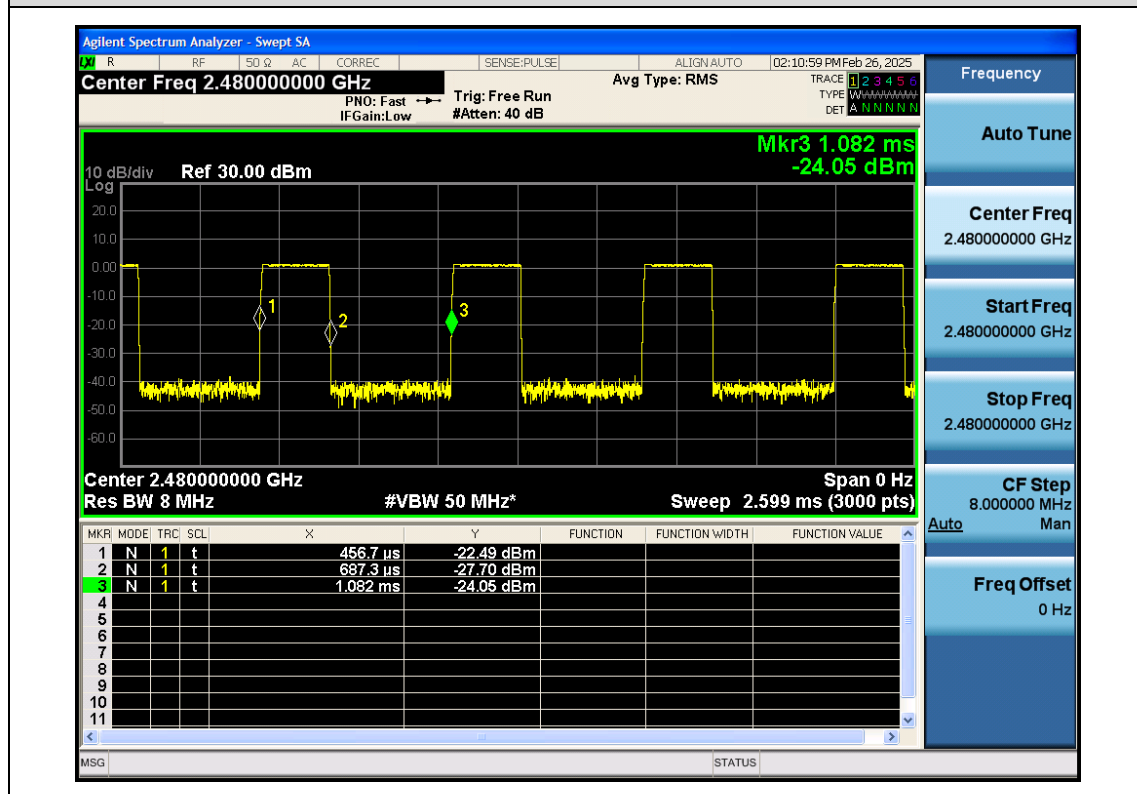
BLE_1M-Ant1-2480



BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480