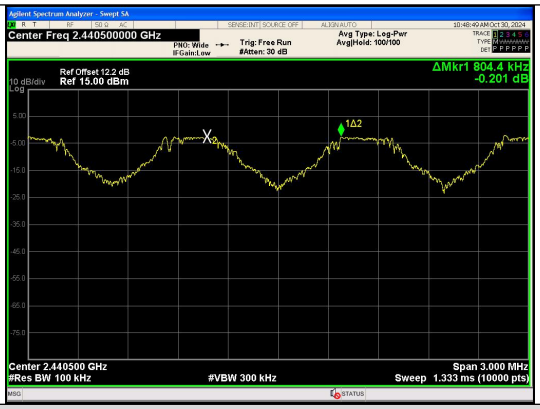
APPENDIX VII. Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.9847	2440.8557	0.8710	0.635	PASS
GFSK	DH5	2440.0714	2440.8758	0.8044	0.633	PASS
GFSK	DH5	2440.1737	2440.844	0.6703	0.635	PASS
π/4DQPSK	2-DH5	2439.8644	2441.0777	1.2133	0.87	PASS
π/4DQPSK	2-DH5	2439.9757	2440.8692	0.8935	0.853	PASS
π/4DQPSK	2-DH5	2439.9814	2440.8818	0.9004	0.871	PASS
8DPSK	3-DH5	2439.8197	2441.0072	1.1875	0.865	PASS
8DPSK	3-DH5	2439.9871	2440.871	0.8839	0.864	PASS
8DPSK	3-DH5	2439.8566	2440.8407	0.9841	0.863	PASS

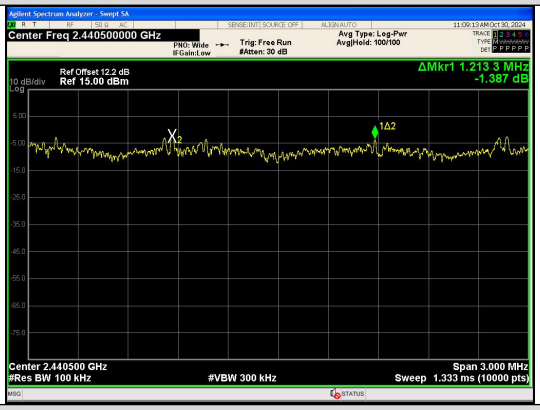
Test Graphs

GFSK



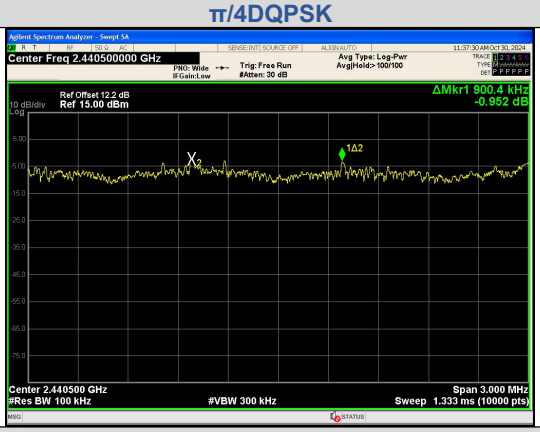
GFSK

GFSK

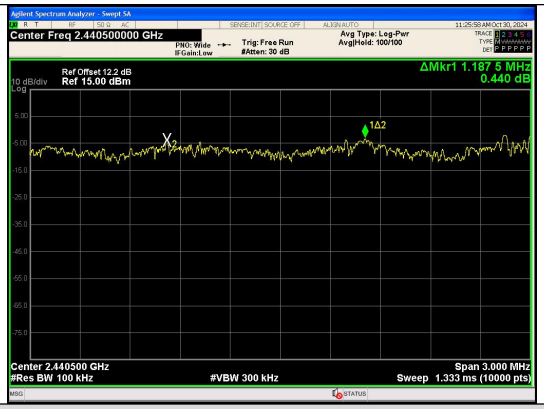


π/4DQPSK

π/4DQPSK



π/4DQPSK



8DPSK

8DPSK

8DPSK

APPENDIX VIII. Conducted Out Of Band Emission

Test Result

Non-Hopping

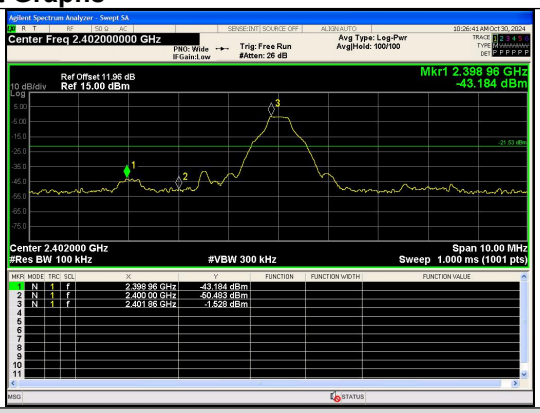
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2398.96	-43.184	-21.53	-21.654	PASS
			2400.00	-50.483	-21.53	-28.953	PASS
			4803.80	-52.868	-21.53	-31.338	PASS
			7205.90	-62.141	-21.53	-40.611	PASS
			9601.90	-46.575	-21.53	-25.045	PASS
			9607.50	-62.959	-21.53	-41.429	PASS
		39	4882.42	-49.752	-22.0	-27.752	PASS
			7322.05	-61.510	-22.0	-39.510	PASS
			9757.93	-45.320	-22.0	-23.320	PASS
			9763.55	-60.863	-22.0	-38.863	PASS
		78	2483.50	-47.604	-22.64	-24.964	PASS
			4960.45	-50.854	-22.64	-28.214	PASS
			7440.03	-60.742	-22.64	-38.102	PASS
			9914.00	-43.014	-22.64	-20.374	PASS
			9919.62	-62.368	-22.64	-39.728	PASS
π/4DQPSK	2-DH5	0	2398.85	-44.441	-21.53	-22.911	PASS
			2400.00	-50.787	-21.53	-29.257	PASS
			4804.40	-56.651	-21.53	-35.121	PASS
			7205.90	-61.285	-21.53	-39.755	PASS
			9608.10	-63.700	-21.53	-42.170	PASS
			24986.9	-45.489	-21.53	-23.959	PASS
		39	4881.79	-51.535	-22.0	-29.535	PASS
			7322.05	-60.830	-22.0	-38.830	PASS
			9757.93	-44.970	-22.0	-22.970	PASS
			9764.80	-63.178	-22.0	-41.178	PASS
		78	2483.50	-50.976	-22.7	-28.276	PASS
			4960.45	-55.512	-22.7	-32.812	PASS
			7440.03	-63.293	-22.7	-40.593	PASS
			9914.00	-43.509	-22.7	-20.809	PASS
			9919.62	-63.021	-22.7	-40.321	PASS
8DPSK	3-DH5	0	2399.00	-44.803	-21.51	-23.293	PASS
			2400.00	-49.121	-21.51	-27.611	PASS
			4803.80	-53.939	-21.51	-32.429	PASS
			7205.30	-62.038	-21.51	-40.528	PASS
			9608.70	-65.000	-21.51	-43.490	PASS
			24835.8	-46.206	-21.51	-24.696	PASS
		39	4881.79	-55.660	-21.96	-33.700	PASS
			7322.05	-62.144	-21.96	-40.184	PASS
			9757.93	-45.207	-21.96	-23.247	PASS
			9763.55	-63.103	-21.96	-41.143	PASS
		78	2483.50	-49.390	-22.91	-26.480	PASS
			4960.45	-55.833	-22.91	-32.923	PASS
			7439.41	-63.247	-22.91	-40.337	PASS
			9914.00	-43.552	-22.91	-20.642	PASS
			9920.86	-61.922	-22.91	-39.012	PASS

Hopping

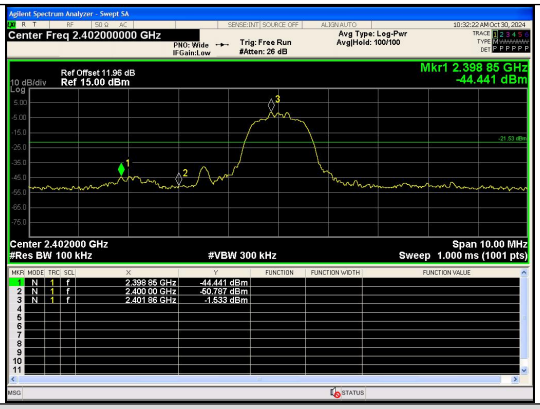
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2398.86	-44.205	-21.78	-22.425	PASS
			2400.00	-44.258	-21.78	-22.478	PASS
			2483.50	-50.568	-22.8	-27.768	PASS
			2400.00	-44.032	-21.53	-22.502	PASS
			2483.50	-50.978	-22.98	-27.998	PASS
			2398.91	-43.674	-21.52	-22.154	PASS
			2400.00	-43.942	-21.52	-22.422	PASS
			2483.50	-50.018	-22.7	-27.318	PASS
π/4DQPSK	2-DH5		2400.00	-44.809	-21.51	-23.299	PASS

			2483.50	-51.196	-22.8	-28.396	PASS
			2398.86	-44.989	-21.58	-23.409	PASS
			2400.00	-45.705	-21.58	-24.125	PASS
			2483.50	-50.716	-22.92	-27.796	PASS
			2398.98	-45.140	-21.57	-23.570	PASS
			2400.00	-45.551	-21.57	-23.981	PASS
			2483.50	-50.170	-22.75	-27.420	PASS
8DPSK	3-DH5		2400.00	-45.645	-21.87	-23.775	PASS
			2483.50	-50.915	-22.81	-28.105	PASS
			2398.62	-46.584	-21.61	-24.974	PASS
			2400.00	-47.189	-21.61	-25.579	PASS
			2483.50	-51.501	-24.46	-27.041	PASS
			2400.00	-49.486	-21.55	-27.936	PASS
			2483.50	-51.384	-24.18	-27.204	PASS

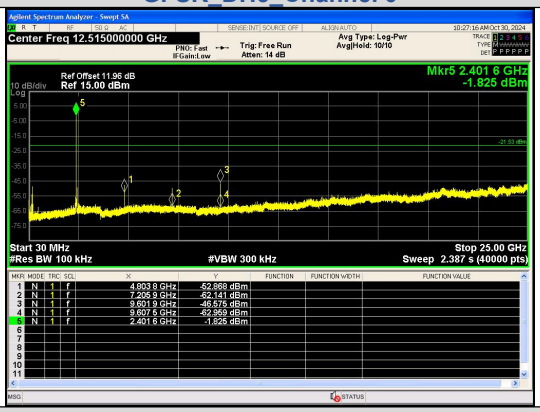
Test Graphs



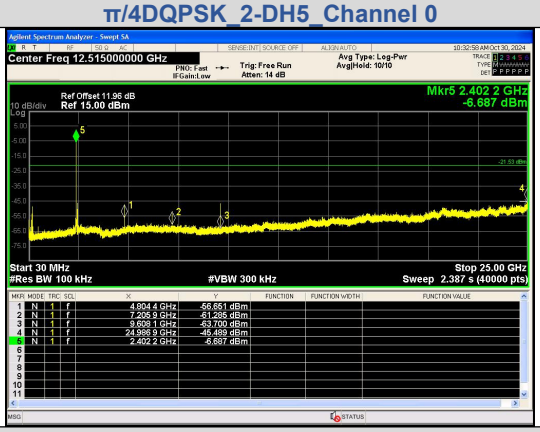
Out Of Band Emission
GFSK_DH5_Channel 0



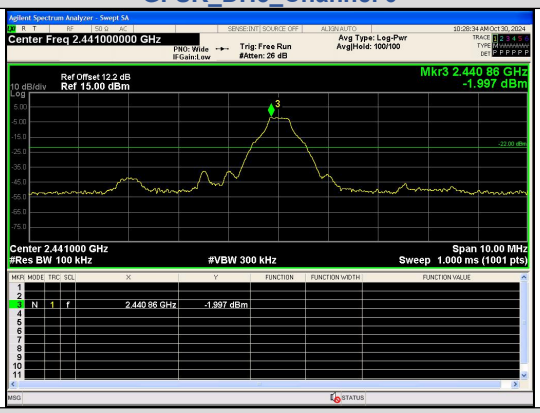
Out Of Band Emission
π/4DQPSK_2-DH5_Channel 0



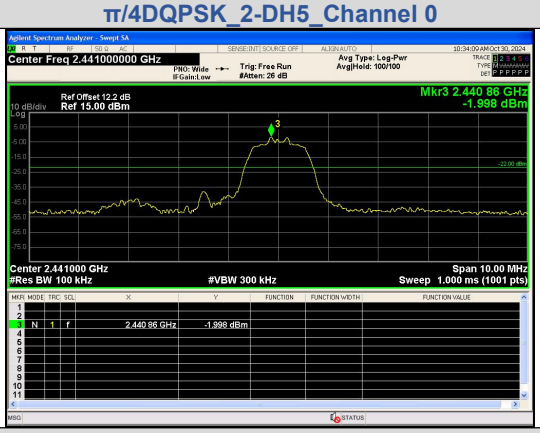
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 0



Out Of Band Emission
GFSK_DH5_Channel 39



Out Of Band Emission
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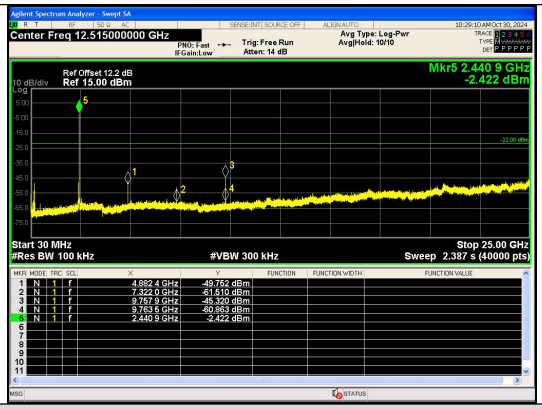
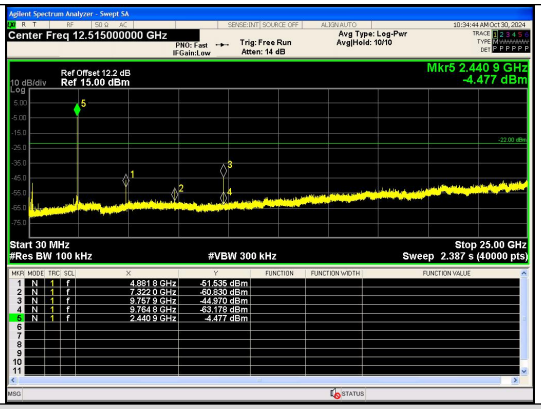
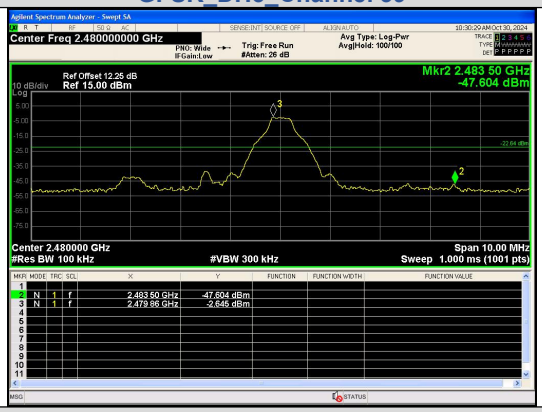


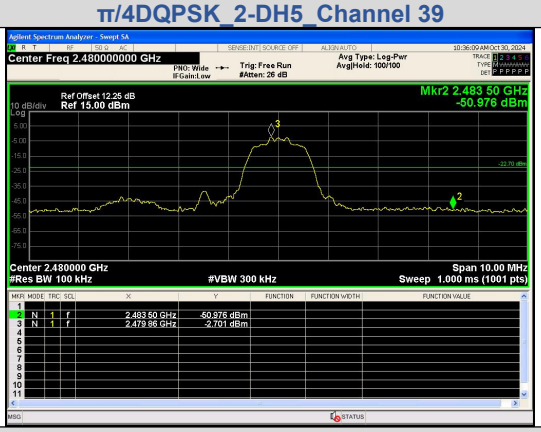
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



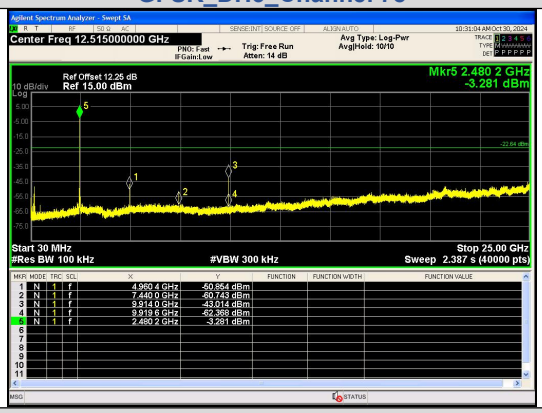
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 39



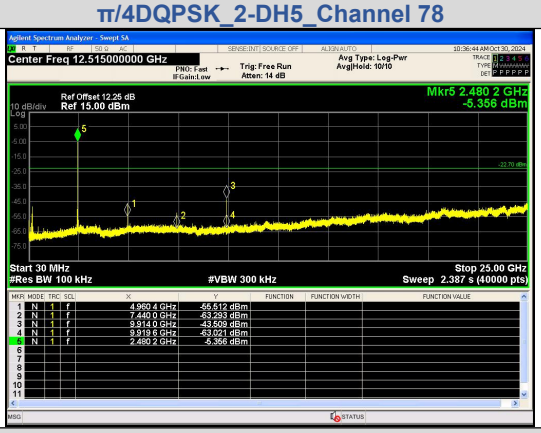
Out Of Band Emission
GFSK_DH5_Channel 78



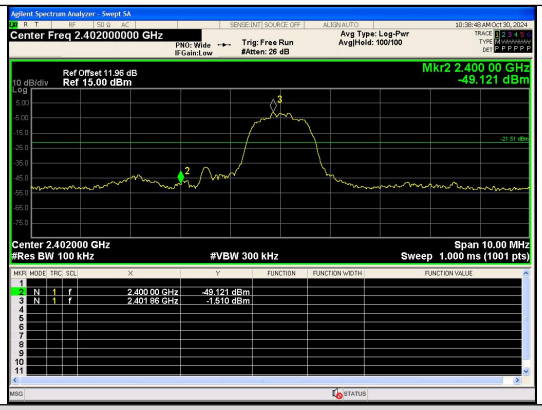
Out Of Band Emission
π/4DQPSK_2-DH5_Channel 78



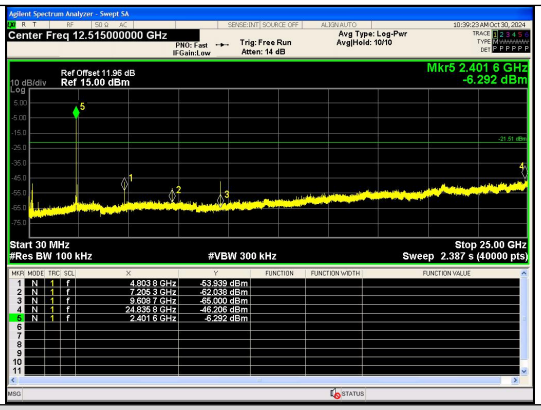
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



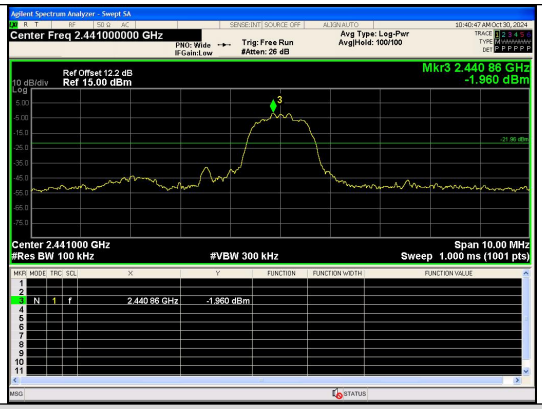
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 78



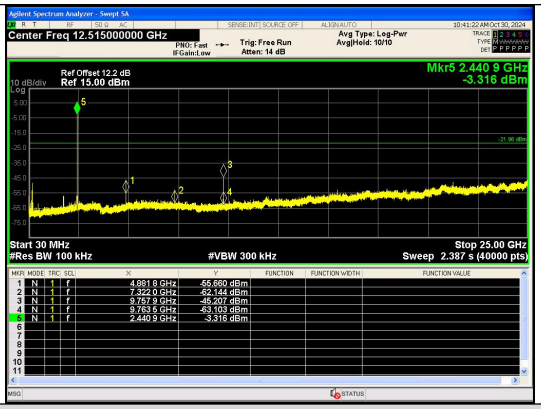
Out Of Band Emission
8DPSK_3-DH5_Channel 0



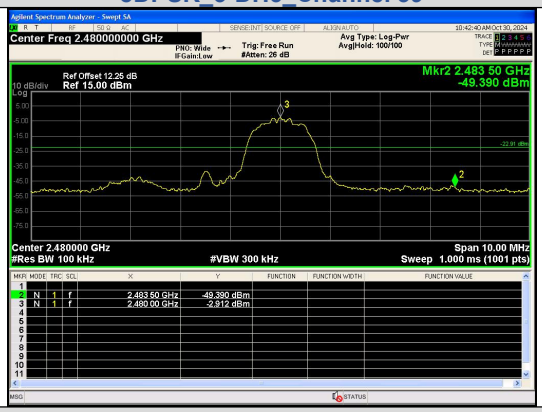
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



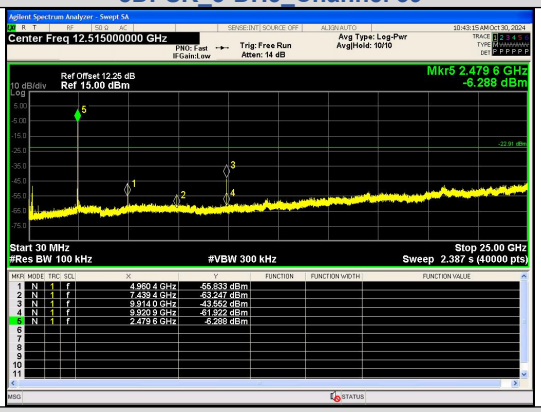
Out Of Band Emission
8DPSK_3-DH5_Channel 39



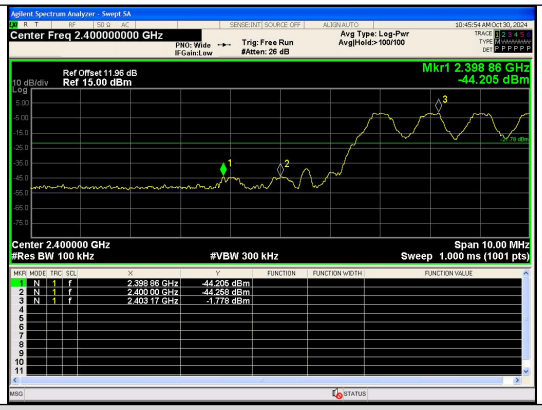
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



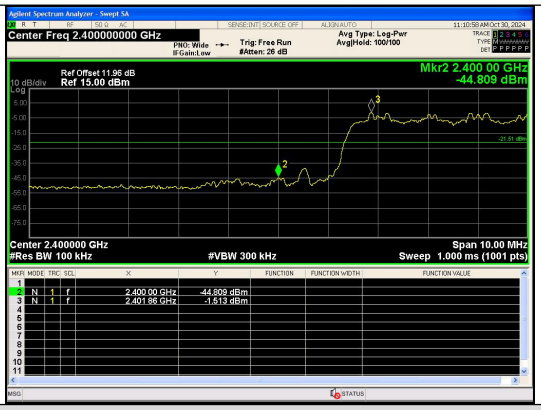
Out Of Band Emission
8DPSK_3-DH5_Channel 78



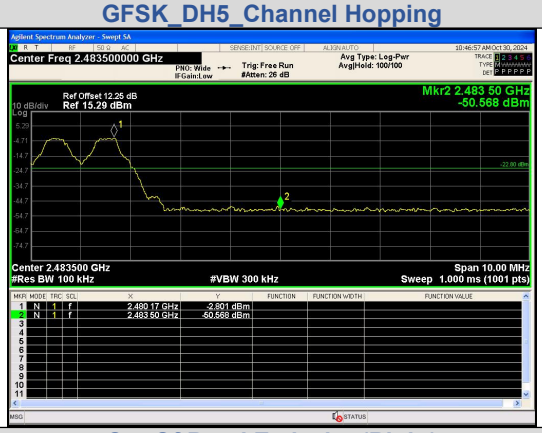
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78



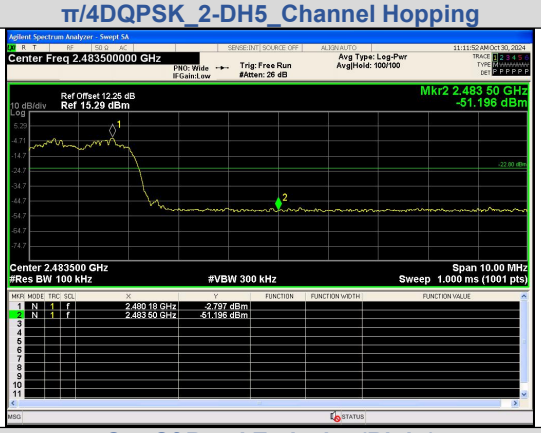
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



Out Of Band Emission(Left)
π/4DQPSK_2-DH5_Channel Hopping



Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



Out Of Band Emission(Right)
π/4DQPSK_2-DH5_Channel Hopping