

### APPENDIX V. Conducted Out Of Band Emission

Test Result  
Non-Hopping

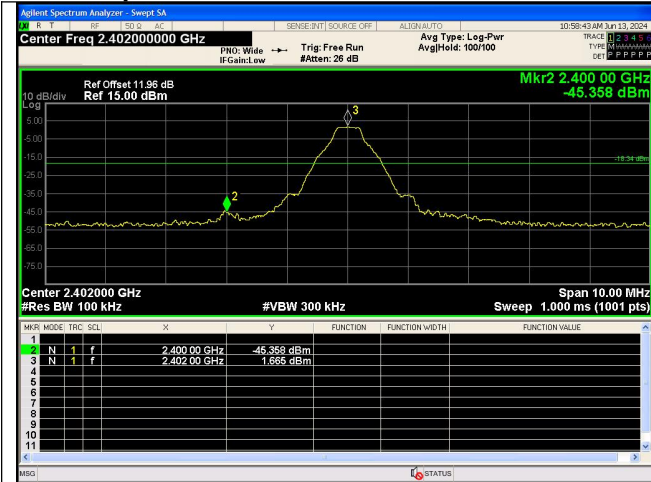
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	
GFSK	DH5	0	2400.00	-45.358	-18.34	-27.018	PASS	
			4803.76	-44.196	-18.34	-25.856	PASS	
			7205.93	-48.181	-18.34	-29.841	PASS	
			9608.11	-44.481	-18.34	-26.141	PASS	
			24912.0	-46.366	-18.34	-28.026	PASS	
		39	4881.79	-43.919	-18.05	-25.869	PASS	
			7323.30	-48.733	-18.05	-30.683	PASS	
			9764.17	-42.986	-18.05	-24.936	PASS	
		78	24875.2	-46.281	-18.05	-28.231	PASS	
			2483.50	-51.855	-18.08	-33.775	PASS	
			4959.83	-45.392	-18.08	-27.312	PASS	
			7440.03	-46.768	-18.08	-28.688	PASS	
9920.24	-43.693	-18.08	-25.613	PASS				
	24955.0	-45.161	-18.08	-27.081	PASS			
	π/4DQPSK	2-DH5	0	2400.00	-46.790	-18.38	-28.410	PASS
				4803.76	-45.454	-18.38	-27.074	PASS
7205.93				-50.974	-18.38	-32.594	PASS	
9608.11				-43.824	-18.38	-25.444	PASS	
24919.5				-46.546	-18.38	-28.166	PASS	
39	4881.79	-45.989	-18.01	-27.979	PASS			
	7322.67	-49.987	-18.01	-31.977	PASS			
	9764.17	-42.547	-18.01	-24.537	PASS			
78	24951.9	-46.176	-18.01	-28.166	PASS			
	2483.50	-50.168	-18.11	-32.058	PASS			
	4959.83	-45.410	-18.11	-27.300	PASS			
	7440.03	-50.406	-18.11	-32.296	PASS			
9920.24	-43.692	-18.11	-25.582	PASS				
	24981.9	-45.543	-18.11	-27.433	PASS			
	8DPSK	3-DH5	0	2400.00	-44.012	-18.07	-25.942	PASS
				4803.76	-44.029	-18.07	-25.959	PASS
7205.93				-48.710	-18.07	-30.640	PASS	
9608.11				-44.619	-18.07	-26.549	PASS	
24883.9				-46.254	-18.07	-28.184	PASS	
39			4881.79	-45.264	-17.9	-27.364	PASS	
			7323.30	-47.116	-17.9	-29.216	PASS	
			9764.17	-43.437	-17.9	-25.537	PASS	
78			24984.4	-46.054	-17.9	-28.154	PASS	
			2483.50	-51.978	-17.83	-34.148	PASS	
			4959.83	-43.163	-17.83	-25.334	PASS	
			7440.03	-49.477	-17.83	-31.647	PASS	
9920.24	-44.053	-17.83	-26.223	PASS				
	24963.2	-46.387	-17.83	-28.557	PASS			

Hopping

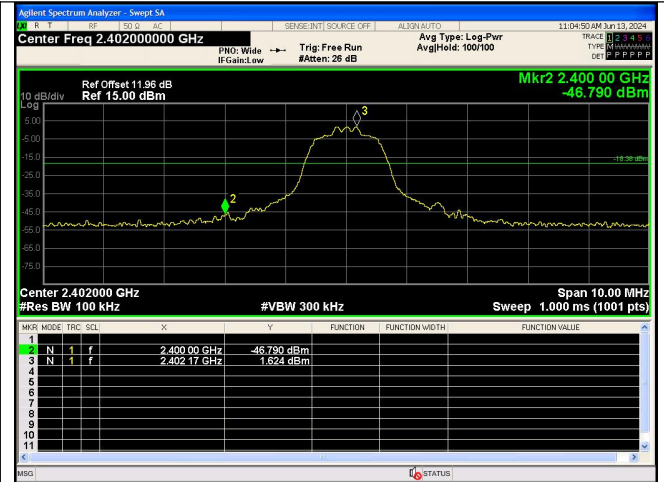
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-45.090	-18.53	-26.560	PASS
			2483.50	-50.229	-18.56	-31.669	PASS
			2400.00	-46.907	-18.47	-28.437	PASS
			2483.50	-49.538	-18.25	-31.288	PASS
			2400.00	-47.347	-18.52	-28.827	PASS
π/4DQPSK	2-DH5		2483.50	-49.541	-18.32	-31.221	PASS
			2396.81	-48.586	-18.69	-29.896	PASS
			2400.00	-48.870	-18.69	-30.180	PASS
			2483.50	-48.241	-18.09	-30.151	PASS
			2395.14	-47.361	-18.36	-29.001	PASS
2400.00	-48.148	-18.36	-29.788	PASS			
	2483.50	-49.550	-18.23	-31.320	PASS		

8DPSK	3-DH5	2400.00	-48.413	-18.73	-29.683	PASS
		2483.50	-49.545	-18.19	-31.355	PASS
		2400.00	-46.276	-18.15	-28.126	PASS
		2483.50	-49.863	-20.55	-29.313	PASS
		2400.00	-46.492	-18.41	-28.082	PASS
		2483.50	-50.676	-18.23	-32.446	PASS
		2400.00	-47.899	-18.05	-29.849	PASS
		2483.50	-49.937	-18.47	-31.467	PASS

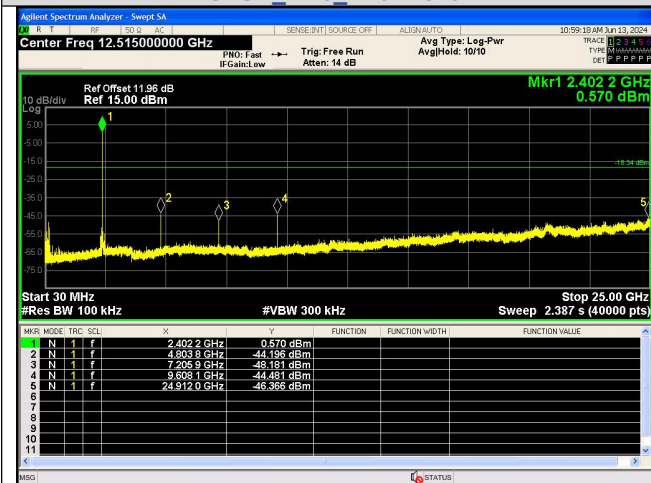
Test Graphs



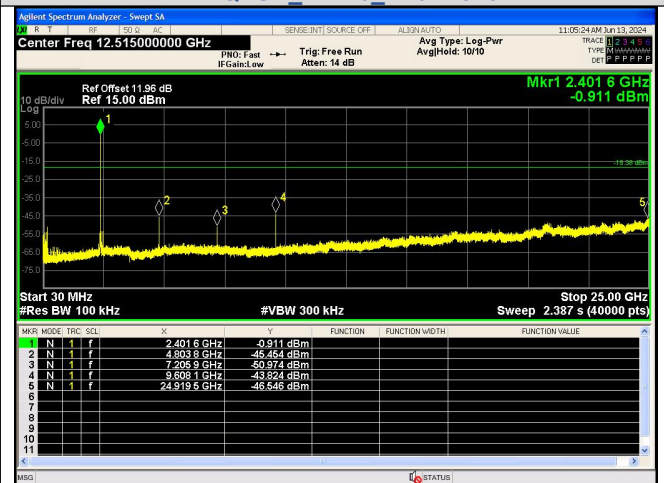
Out of Band Emission  
GFSK DH5 Channel 0



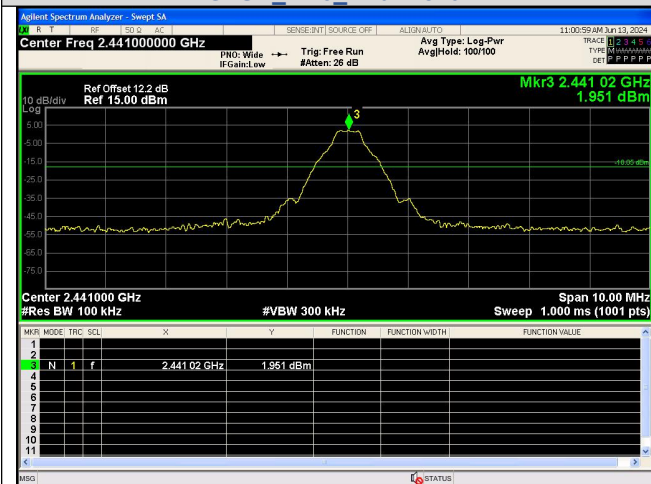
Out of Band Emission  
 $\pi/4$ DQPSK 2-DH5 Channel 0



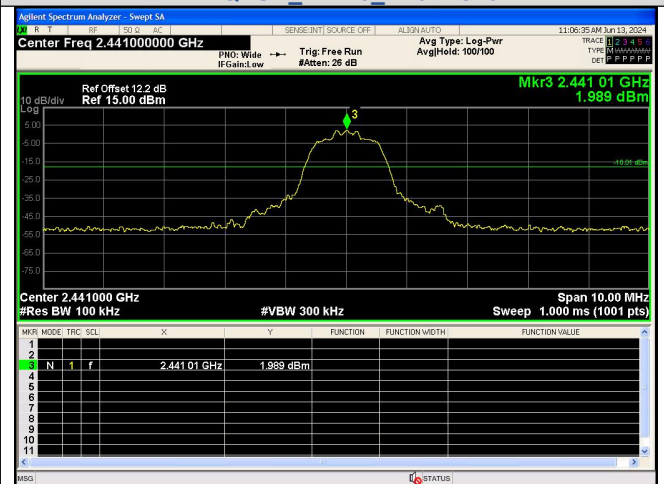
Spurious Emission  
GFSK DH5 Channel 0



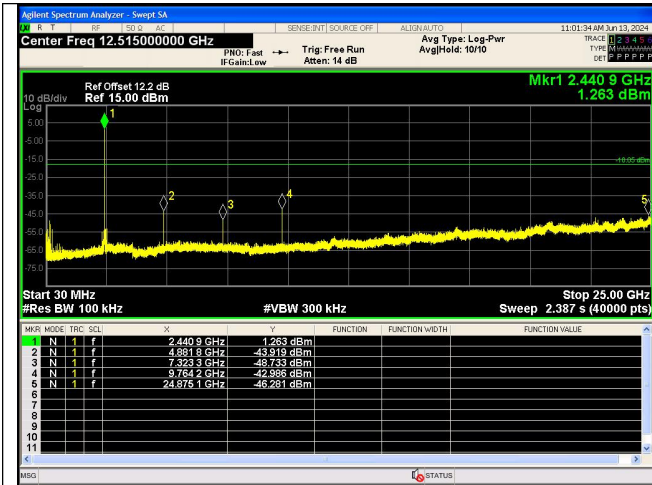
Spurious Emission  
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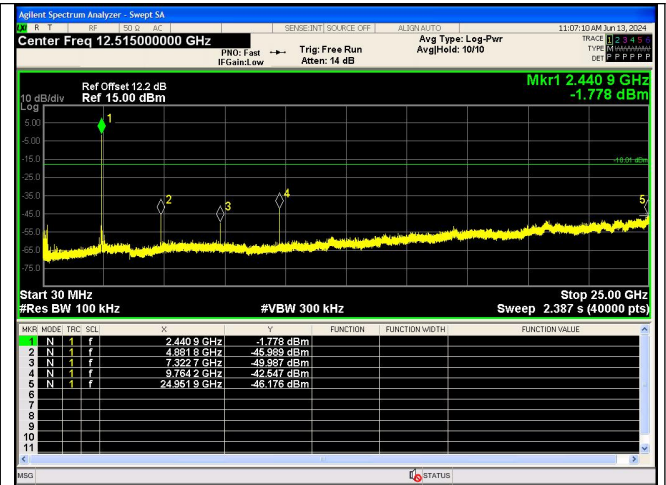
Out of Band Emission  
GFSK DH5 Channel 39



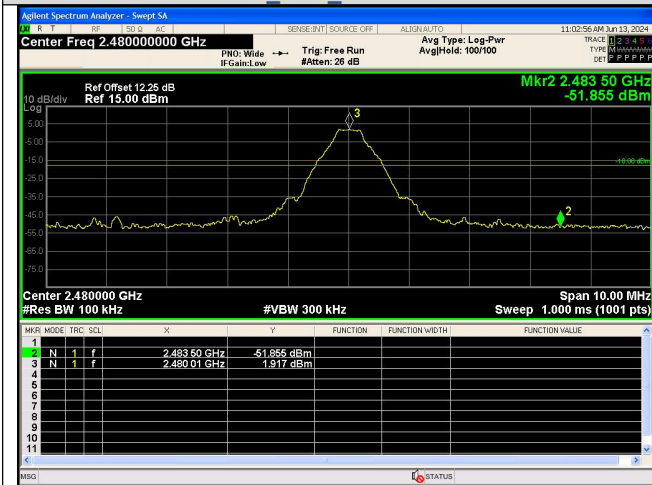
Out of Band Emission  
 $\pi/4$ DQPSK 2-DH5 Channel 39



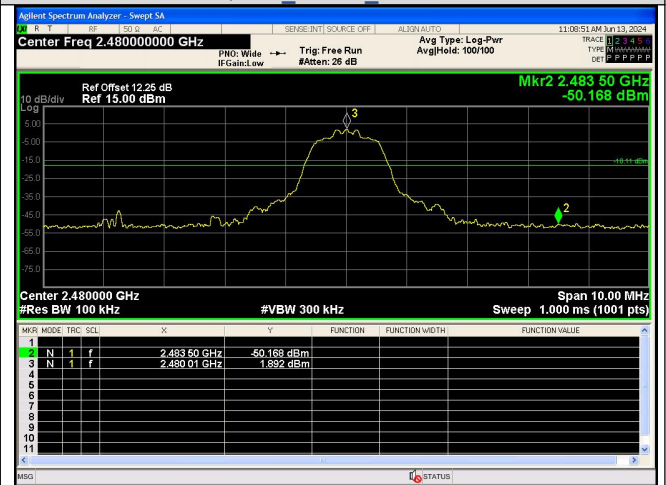
**Spurious Emissions  
GFSK DH5 Channel 39**



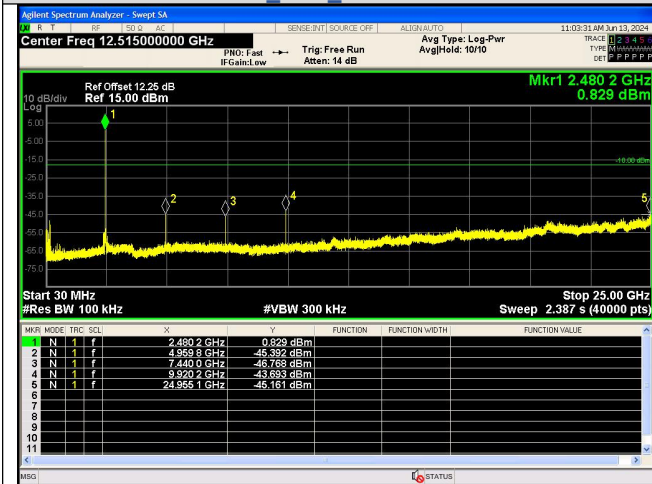
**Spurious Emissions  
 $\pi/4$ DQPSK 2-DH5 Channel 39**



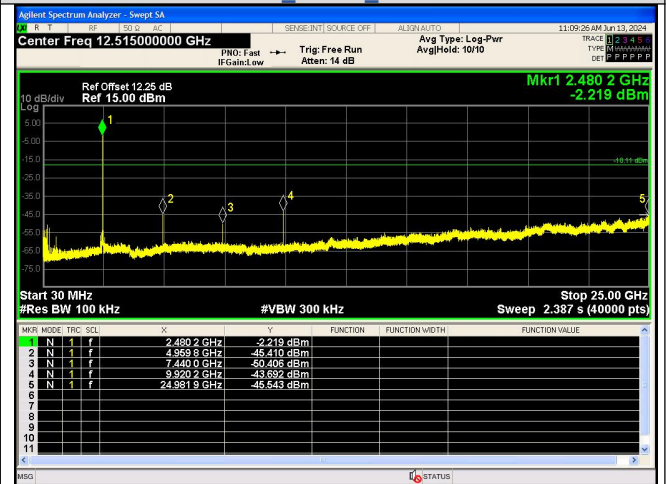
**Out Of Band Emission  
GFSK DH5 Channel 78**



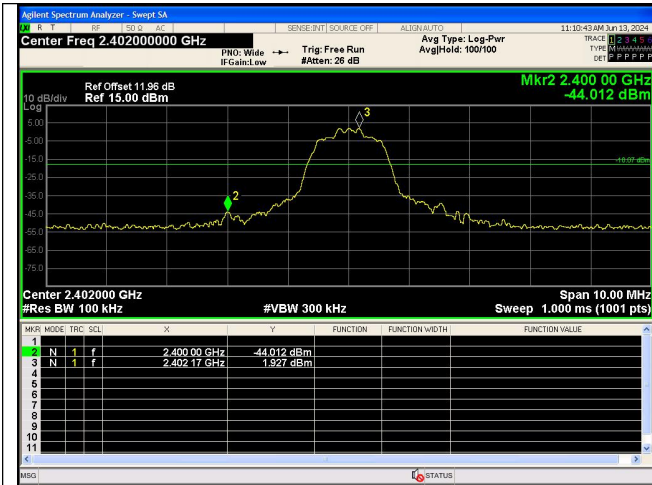
**Out Of Band Emission  
 $\pi/4$ DQPSK 2-DH5 Channel 78**



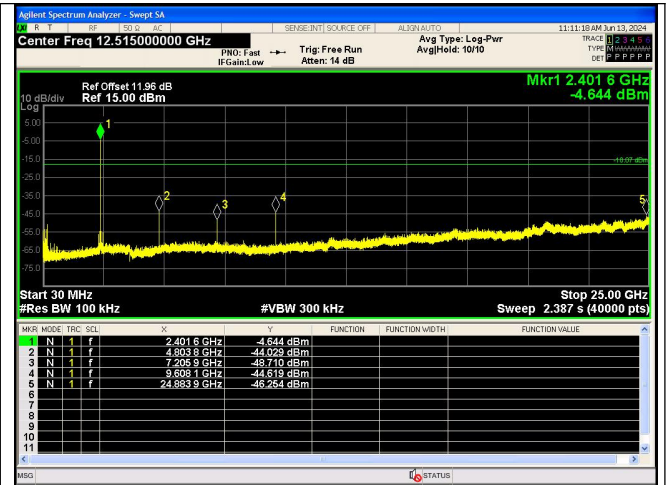
**Spurious Emission  
GFSK DH5 Channel 78**



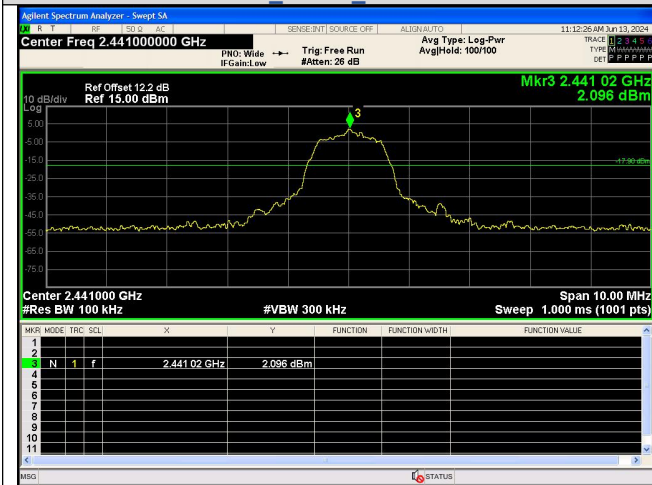
**Spurious Emission  
 $\pi/4$ DQPSK 2-DH5 Channel 78**



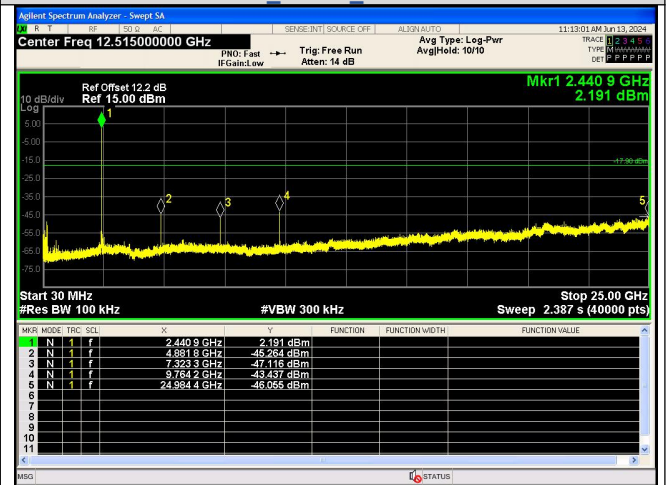
Out Of Band Emission  
8DPSK 3-DH5 Channel 0



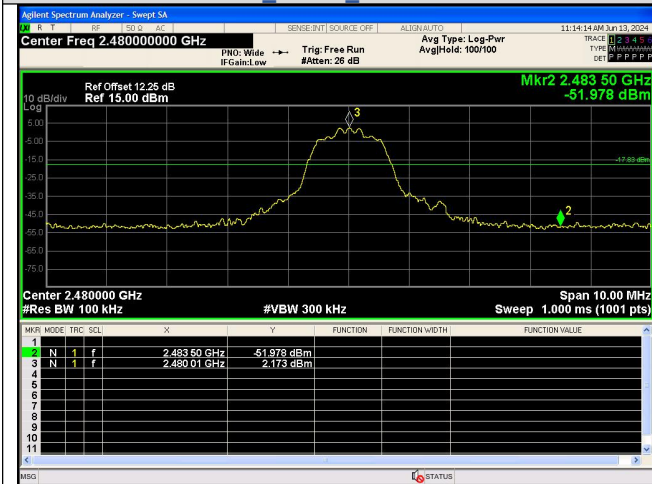
Spurious Emission  
8DPSK 3-DH5 Channel 0



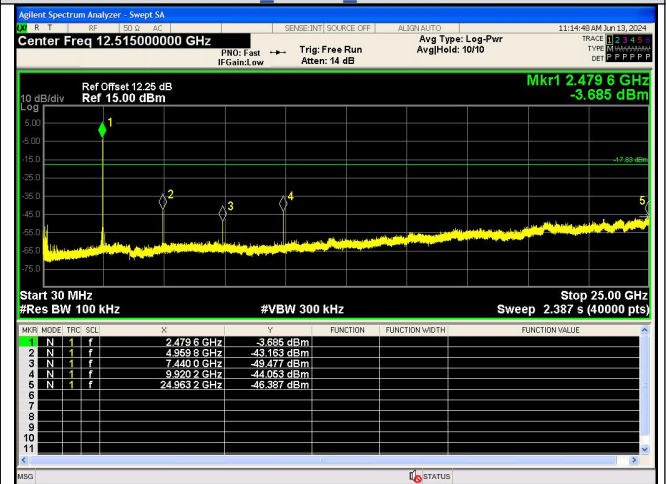
Out Of Band Emission  
8DPSK 3-DH5 Channel 39



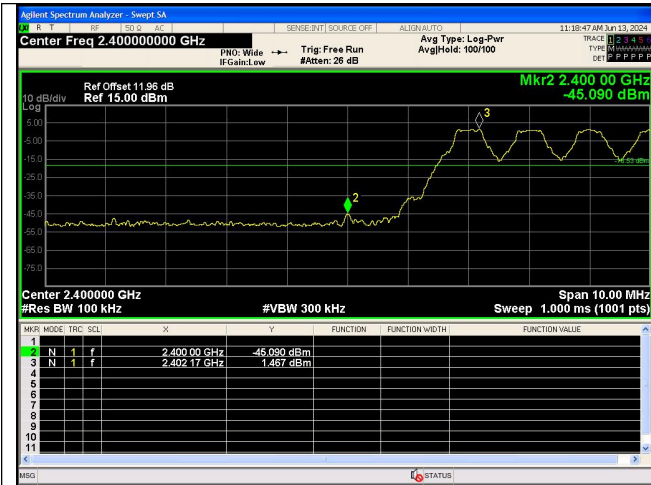
Spurious Emissions  
8DPSK 3-DH5 Channel 39



Out Of Band Emission  
8DPSK 3-DH5 Channel 78



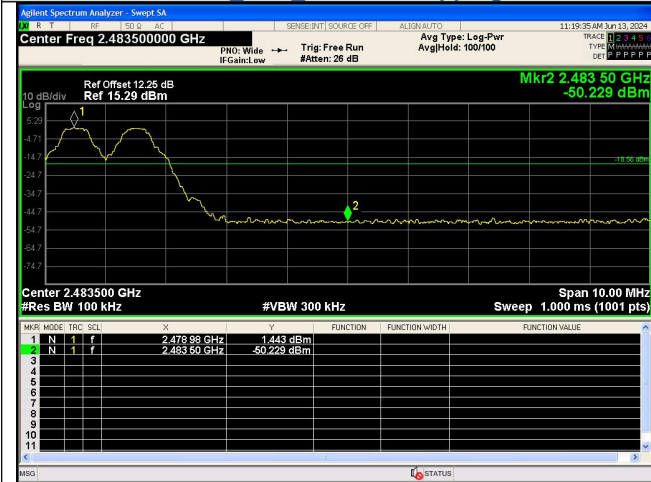
Spurious Emission  
8DPSK 3-DH5 Channel 78



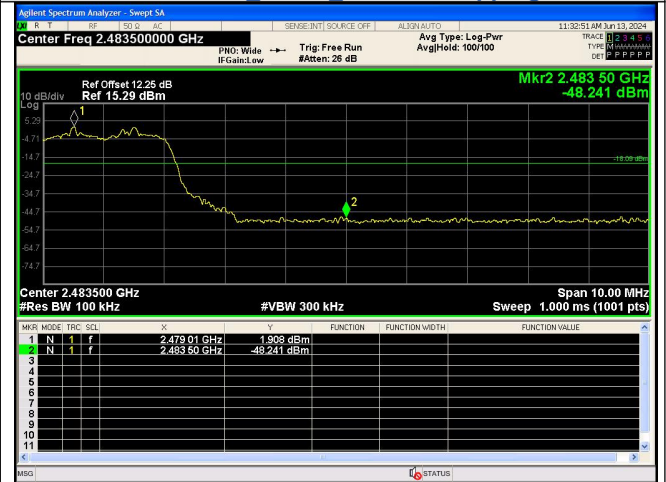
Out Of Band Emission(Left)  
GFSK DH5 Channel Hopping



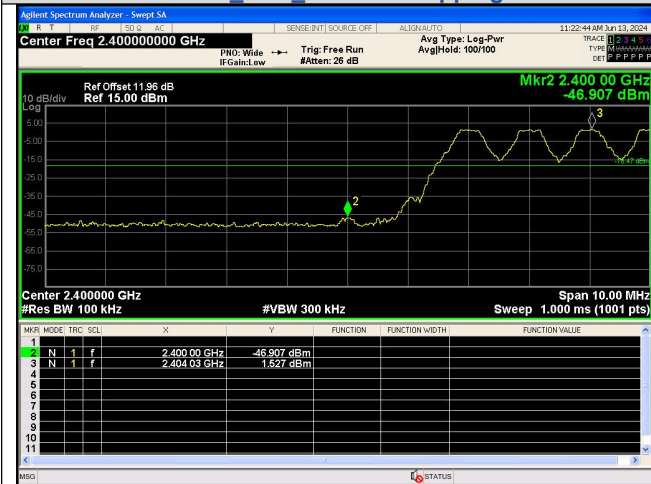
Out Of Band Emission(Left)  
 $\pi/4$ DQPSK 2-DH5 Channel Hopping



Out Of Band Emission(Right)  
GFSK DH5 Channel Hopping



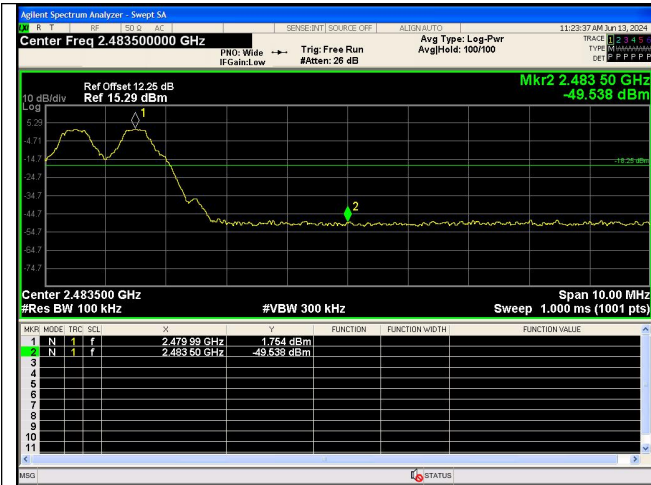
Out Of Band Emission(Right)  
 $\pi/4$ DQPSK 2-DH5 Channel Hopping



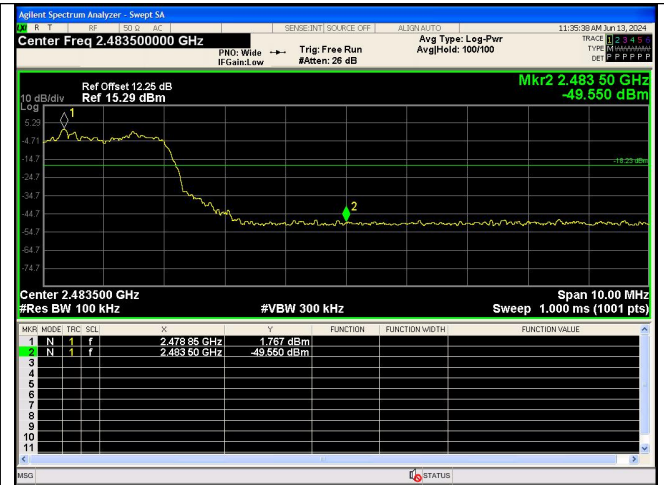
Out Of Band Emission(Left)  
GFSK DH5 Channel Hopping



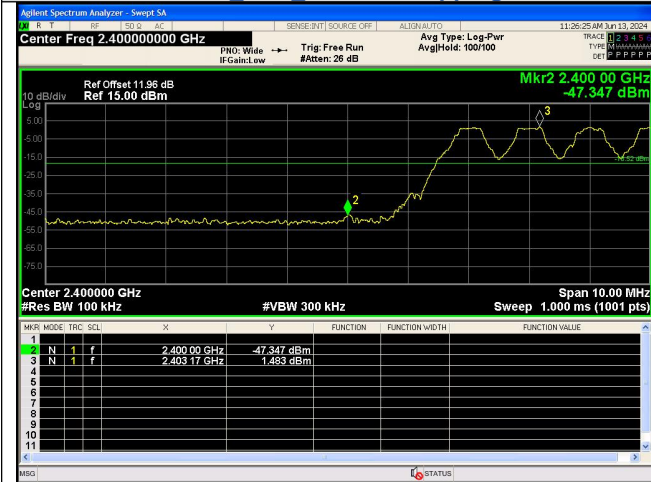
Out Of Band Emission(Left)  
 $\pi/4$ DQPSK 2-DH5 Channel Hopping



Out Of Band Emission(Right)  
GFSK DH5 Channel Hopping



Out Of Band Emission(Right)  
 $\pi/4$ DQPSK 2-DH5 Channel Hopping



Out Of Band Emission(Left)  
GFSK DH5 Channel Hopping



Out Of Band Emission(Left)  
 $\pi/4$ DQPSK 2-DH5 Channel Hopping



Out Of Band Emission(Right)  
GFSK DH5 Channel Hopping



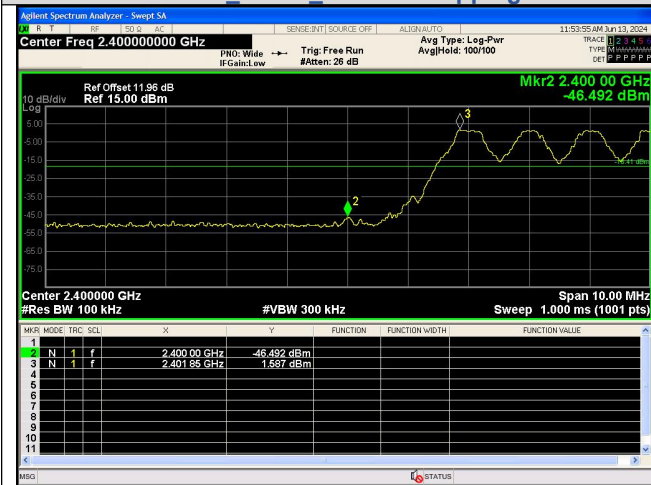
Out Of Band Emission(Right)  
 $\pi/4$ DQPSK 2-DH5 Channel Hopping



Out Of Band Emission(Left)  
8DPSK 3-DH5 Channel Hopping



Out Of Band Emission(Right)  
8DPSK 3-DH5 Channel Hopping



Out Of Band Emission(Left)  
8DPSK 3-DH5 Channel Hopping



Out Of Band Emission(Right)  
8DPSK 3-DH5 Channel Hopping



Out Of Band Emission(Left)  
8DPSK 3-DH5 Channel Hopping



Out Of Band Emission(Right)  
8DPSK 3-DH5 Channel Hopping

## APPENDIX VI. Duty Cycle

### Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
GFSK	DH5	0	2.886	3.748	77.00	0.7700	1.1351
		39	2.886	3.748	77.00	0.7700	1.1351
		78	2.886	3.748	77.00	0.7700	1.1351
$\pi/4$ DQPSK	2-DH5	0	2.890	3.748	77.11	0.7711	1.1289
		39	2.892	3.748	77.16	0.7716	1.1261
		78	2.890	3.748	77.11	0.7711	1.1289
8DPSK	3-DH5	0	0.896	3.748	23.91	0.2391	6.2142
		39	0.894	3.748	23.85	0.2385	6.2251
		78	0.894	3.748	23.85	0.2385	6.2251

### Test Graphs

