

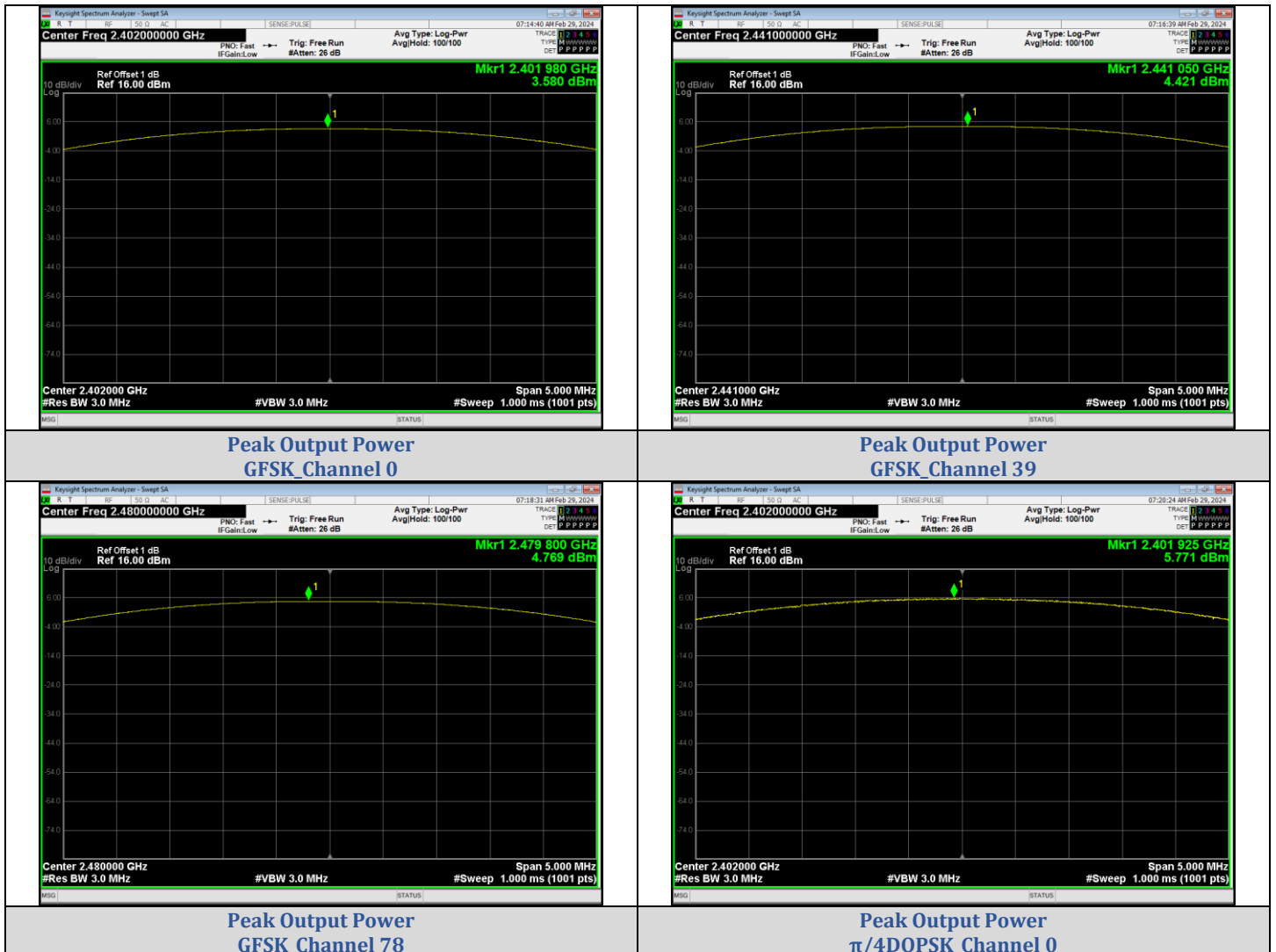


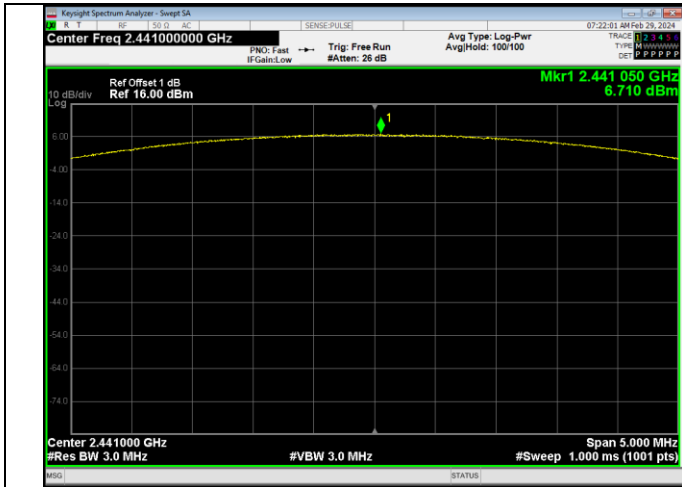
Conducted Peak Output Power

Test Result

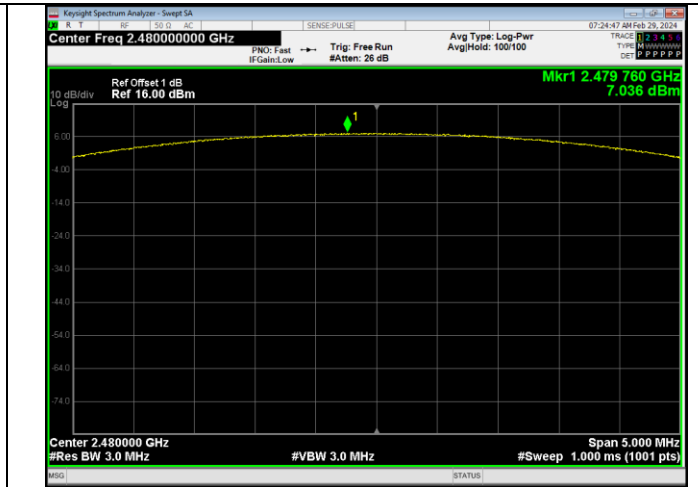
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	3.580	2.280	None	30	PASS
		39	4.421	2.768	None		PASS
		78	4.769	2.998	None		PASS
$\pi/4$ DQPSK	2-DH5	0	5.771	3.777	None	20.97	PASS
		39	6.710	4.688	None		PASS
		78	7.036	5.054	None		PASS
8DPSK	3-DH5	0	6.360	4.325	None		PASS
		39	7.281	5.347	None		PASS
		78	7.651	5.822	None		PASS

Test Graphs

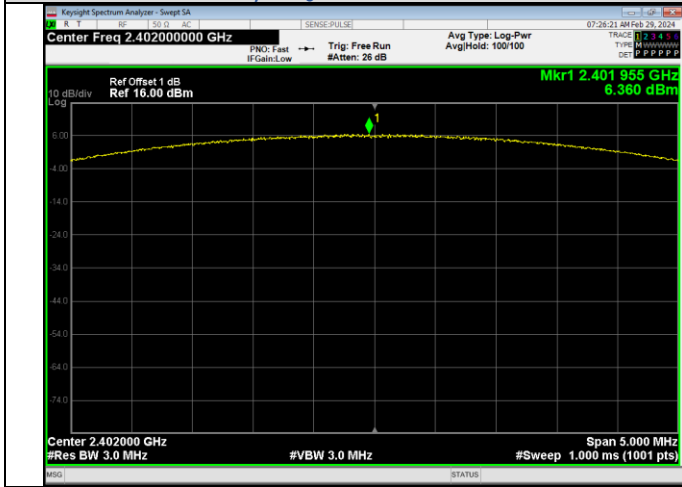




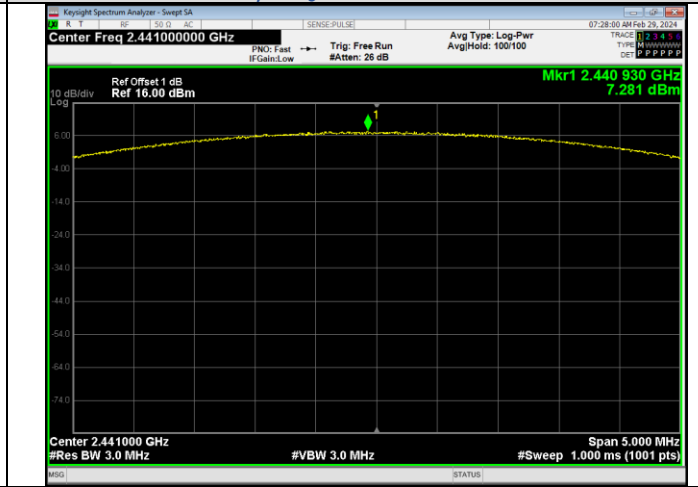
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



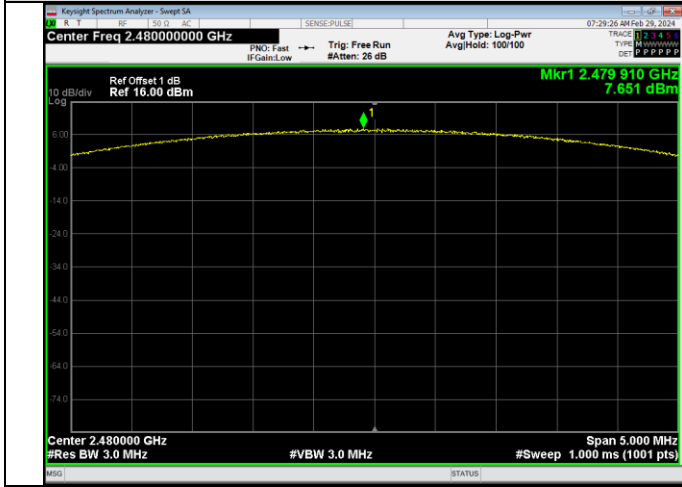
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



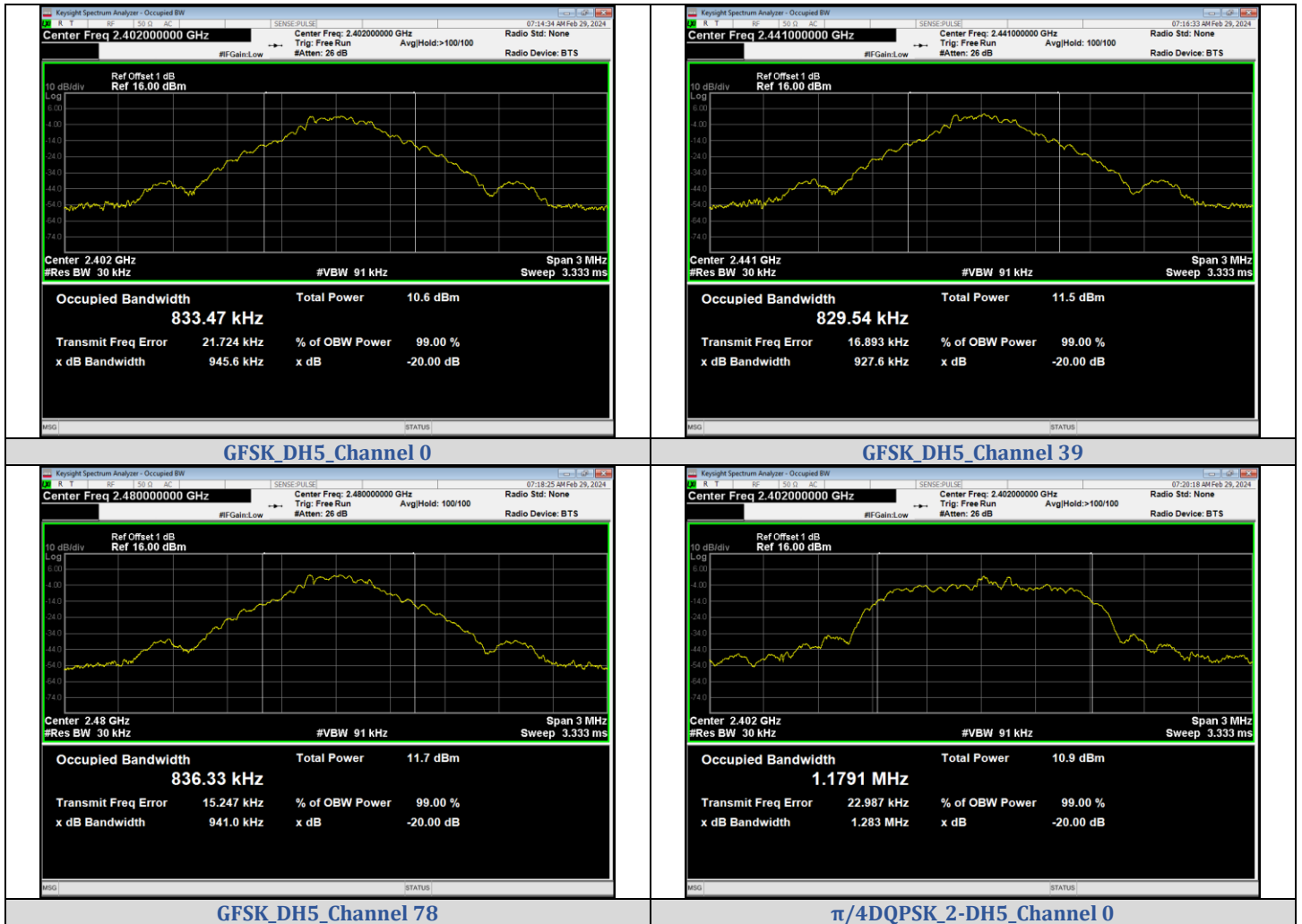
Peak Output Power
8DPSK_Channel 78

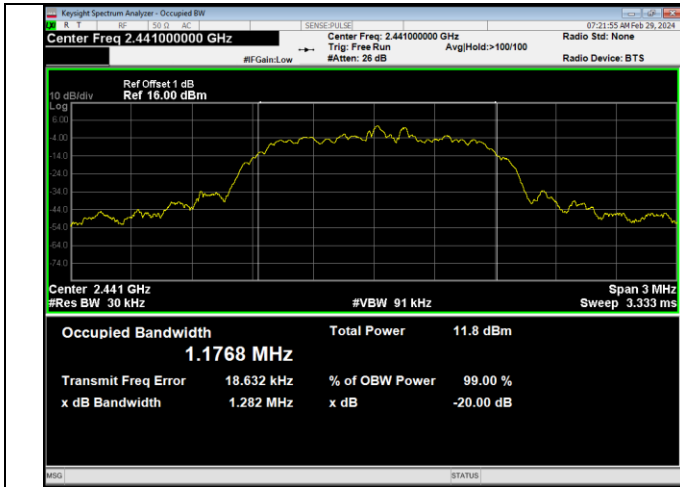


20dB Bandwidth
Test Result

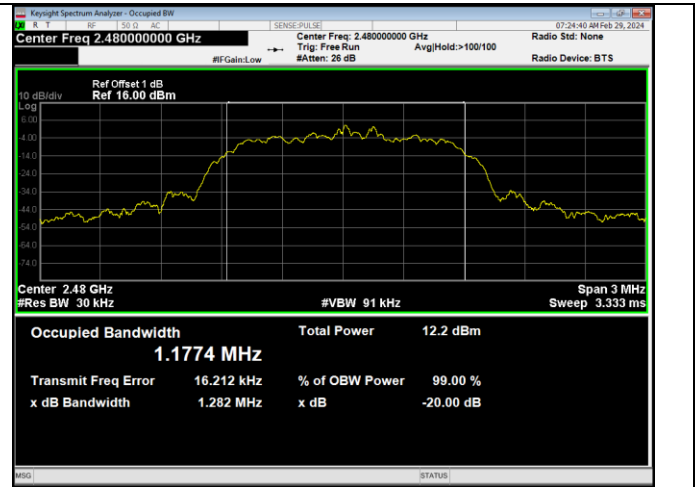
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9456
	39	2441 MHz	0.9276
	78	2480 MHz	0.9410
$\pi/4$ DQPSK	0	2402 MHz	1.283
	39	2441 MHz	1.282
	78	2480 MHz	1.282
8DPSK	0	2402 MHz	1.296
	39	2441 MHz	1.295
	78	2480 MHz	1.290

Test Graphs

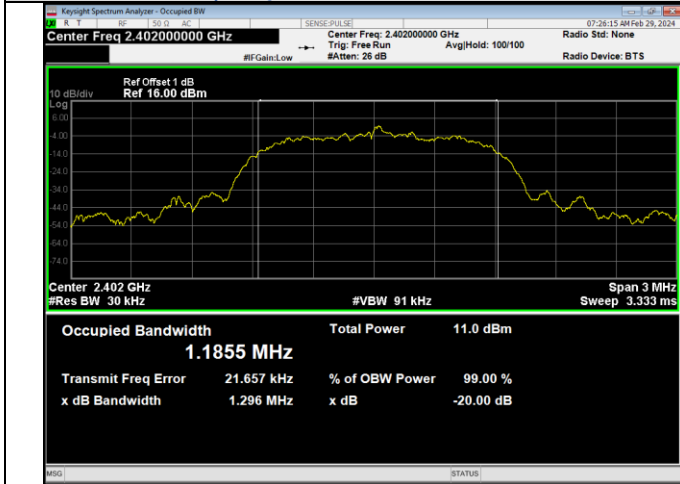




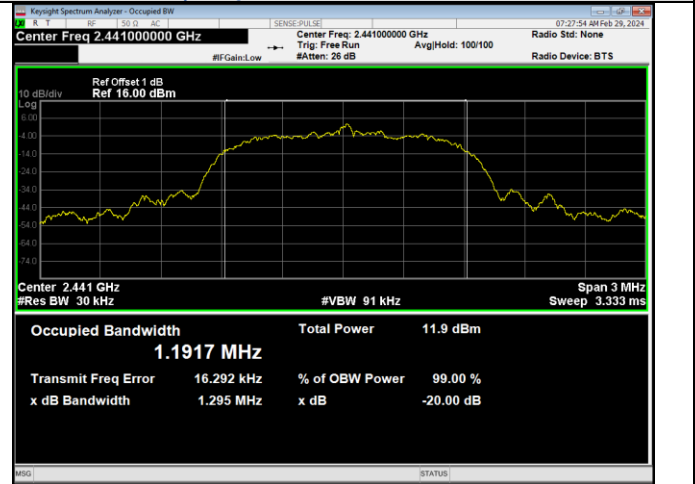
$\pi/4$ DQPSK_2-DH5_Channel 39



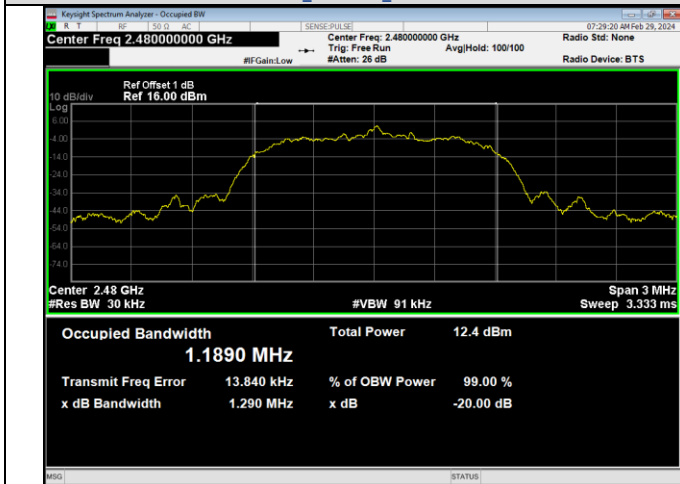
$\pi/4$ DQPSK_2-DH5_Channel 78



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

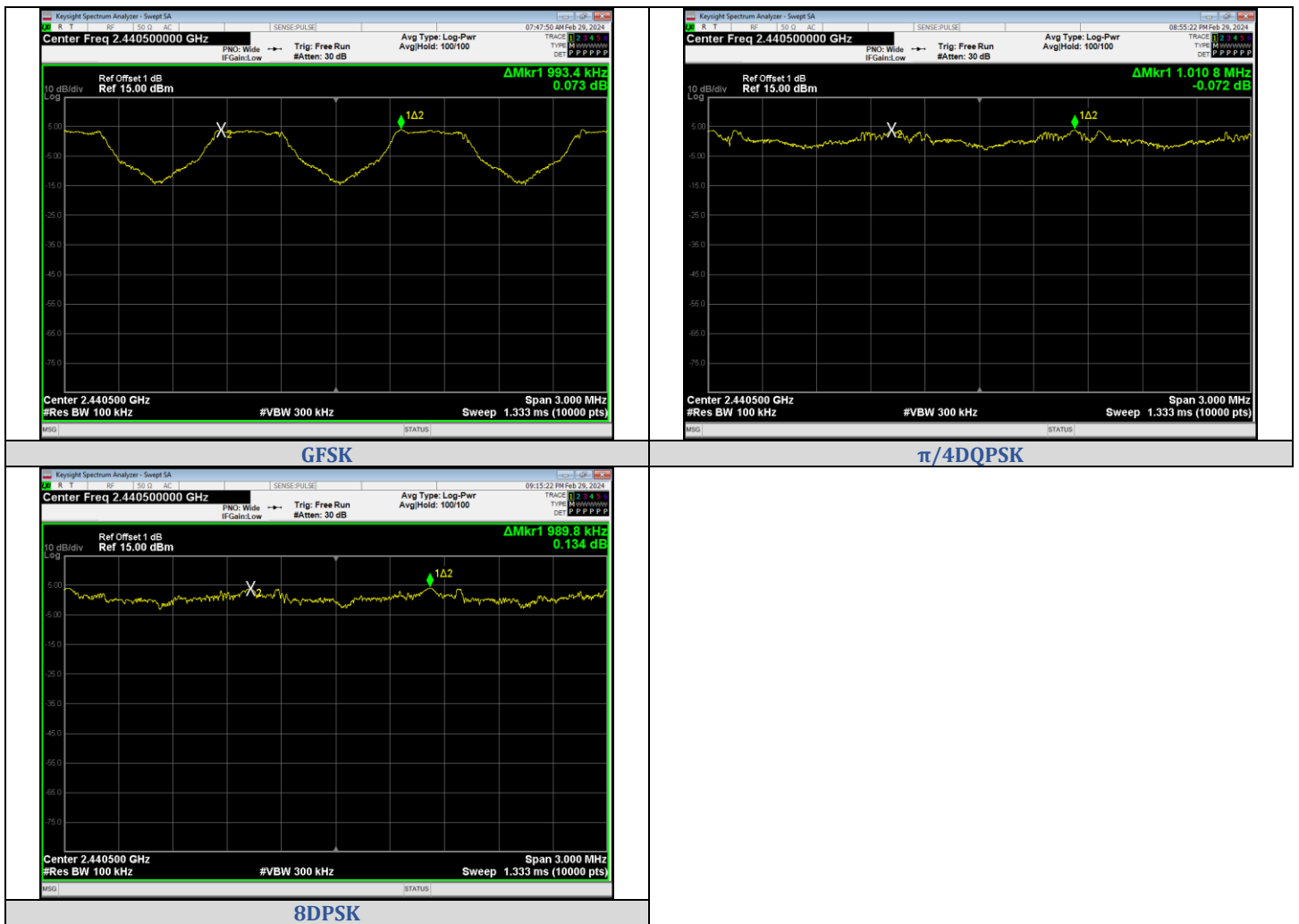


Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8662	2440.8596	0.9934	0.627	PASS
$\pi/4$ DQPSK	2-DH5	2440.0147	2441.0255	1.0108	0.855	PASS
8DPSK	3-DH5	2440.0309	2441.0207	0.9898	0.86	PASS

Test Graphs



**Conducted Out Of Band Emission****Test Result**

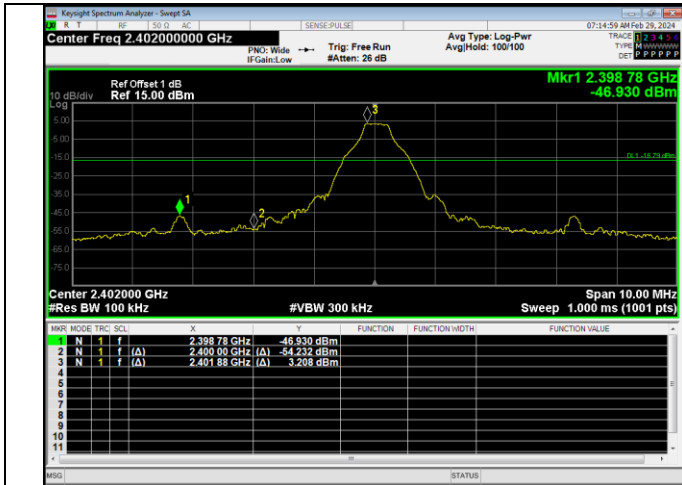
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-54.232	-16.79	-37.442	PASS
			2398.78	-46.929	-16.79	-30.139	PASS
			4804.40	-28.218	-16.79	-11.428	PASS
		39	4882.42	-25.988	-15.96	-10.028	PASS
		78	2483.50	-55.322	-15.54	-39.782	PASS
			4960.45	-25.601	-15.54	-10.061	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-51.900	-16.88	-35.020	PASS
			2398.76	-47.116	-16.88	-30.236	PASS
			4803.80	-28.822	-16.88	-11.942	PASS
		39	4881.79	-29.724	-16.05	-13.674	PASS
		78	2483.50	-55.175	-15.63	-39.545	PASS
			4960.45	-28.837	-15.63	-13.207	PASS
8DPSK	3-DH5	0	2400.00	-48.216	-16.68	-31.536	PASS
			2398.75	-47.551	-16.68	-30.871	PASS
			4804.40	-30.578	-16.68	-13.898	PASS
		39	4881.79	-30.157	-15.76	-14.397	PASS
		78	2483.50	-55.318	-15.38	-39.938	PASS
			4960.45	-27.824	-15.38	-12.444	PASS

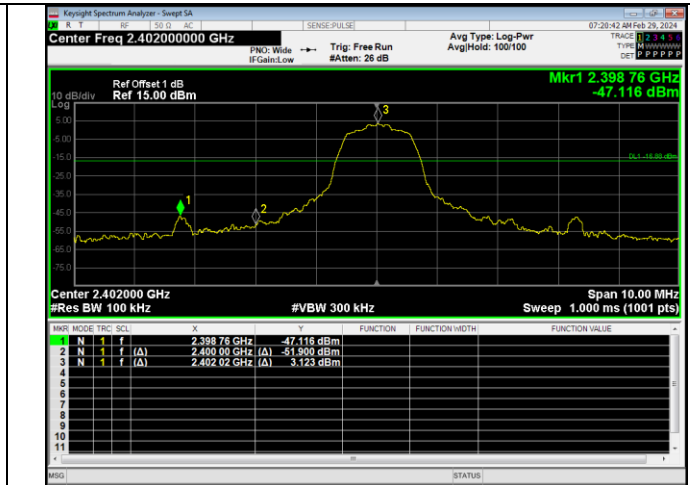
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2398.74	-48.524	-16.86	-31.664	PASS
			2400.00	-53.517	-16.86	-36.657	PASS
			2483.50	-56.523	-15.65	-40.873	PASS
$\pi/4$ DQPSK	2-DH5		2398.81	-47.428	-16.91	-30.518	PASS
			2400.00	-53.320	-16.91	-36.410	PASS
			2483.50	-57.037	-15.59	-41.447	PASS
8DPSK	3-DH5		2398.80	-47.264	-16.66	-30.604	PASS
			2400.00	-48.829	-16.66	-32.169	PASS
			2483.50	-56.920	-15.49	-41.430	PASS

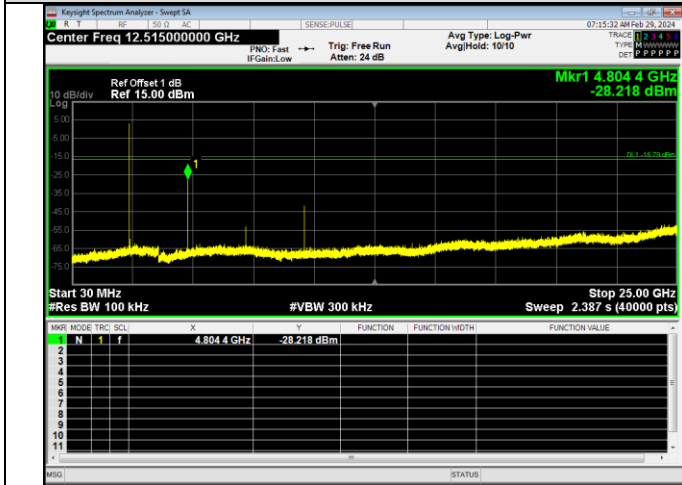
Test Graphs



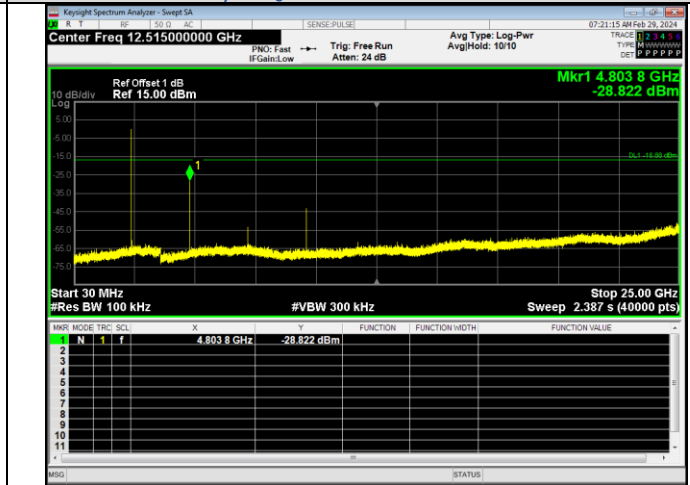
Out Of Band Emission
GFSK_DH5_Channel 0



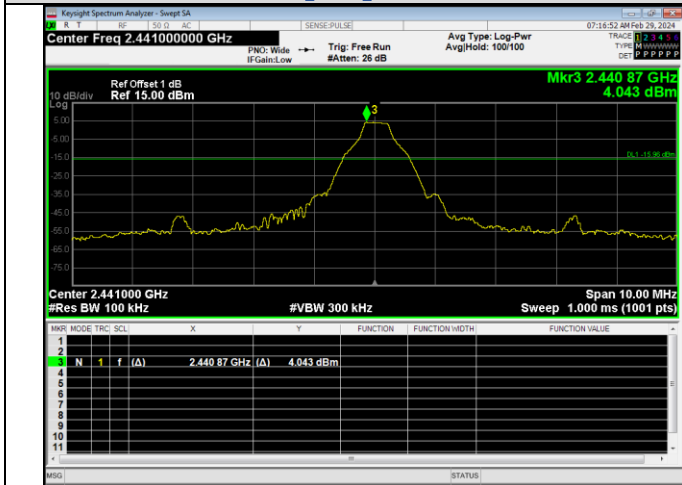
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



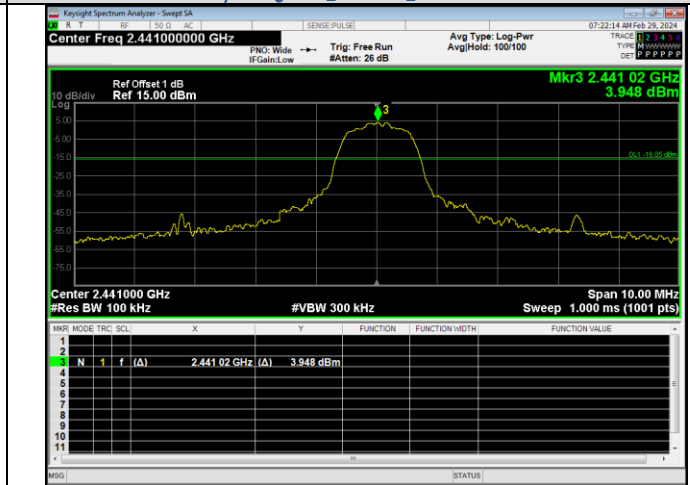
Spurious Emission
GFSK_DH5_Channel 0



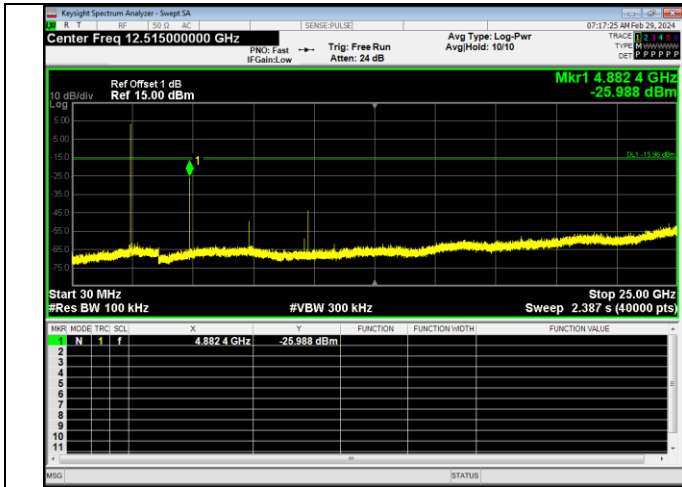
Spurious Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



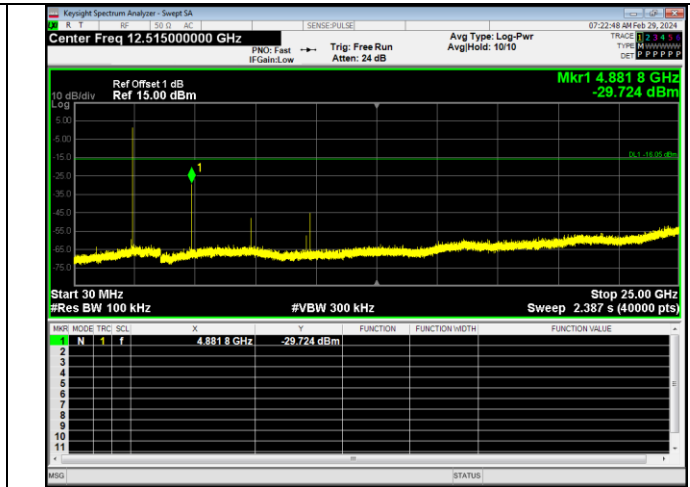
Out Of Band Emission
GFSK_DH5_Channel 39



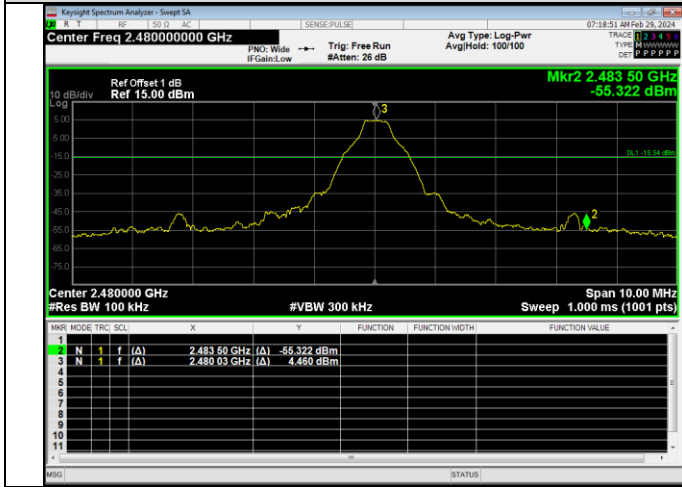
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



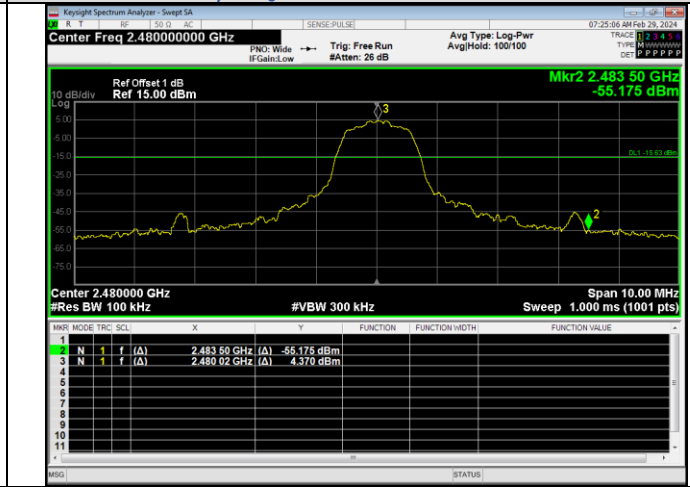
Spurious Emissions
GFSK_DH5_Channel 39



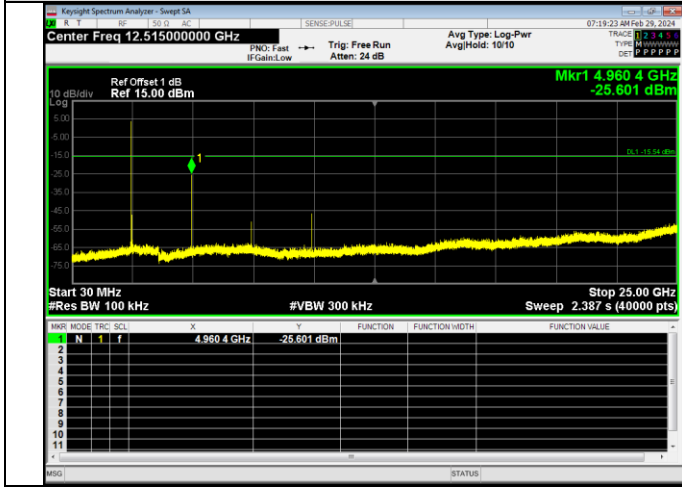
Spurious Emissions
 $\pi/4$ DQPSK 2-DH5_Channel 39



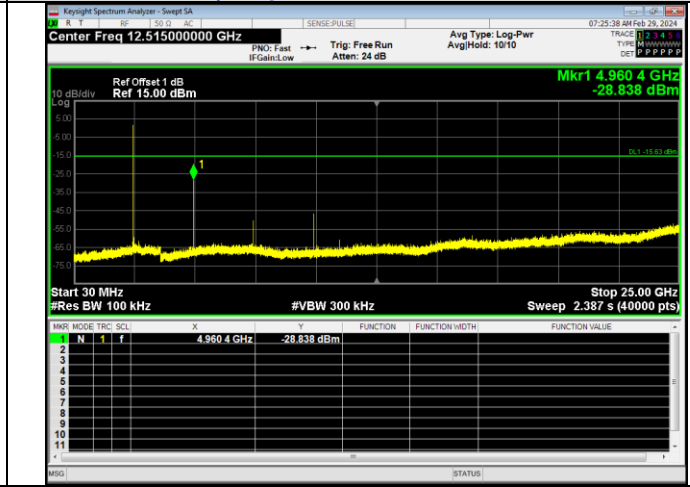
Out Of Band Emission
GFSK_DH5_Channel 78



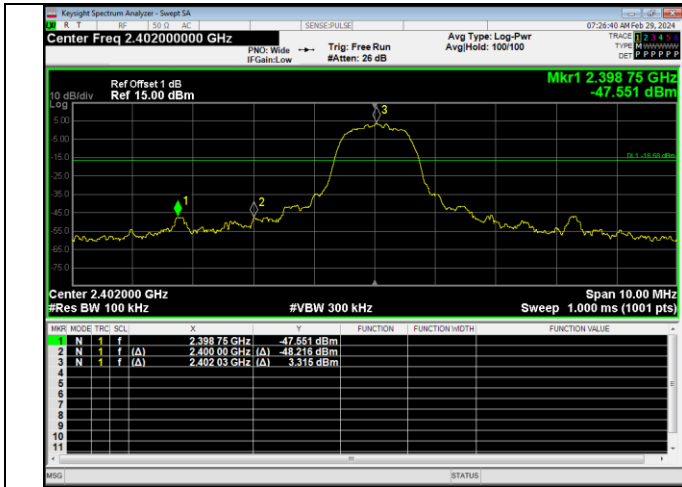
Out Of Band Emission
 $\pi/4$ DQPSK 2-DH5_Channel 78



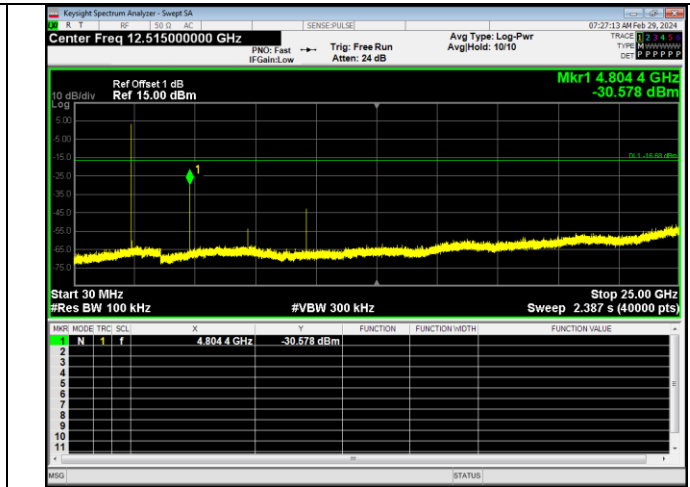
Spurious Emission
GFSK_DH5_Channel 78



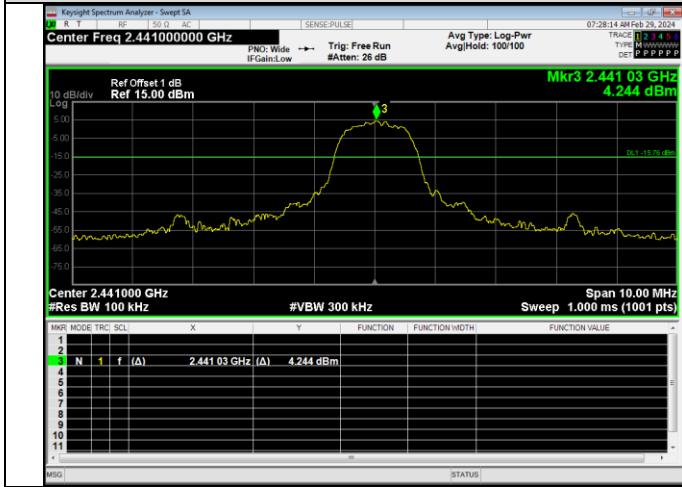
Spurious Emission
 $\pi/4$ DQPSK 2-DH5_Channel 78



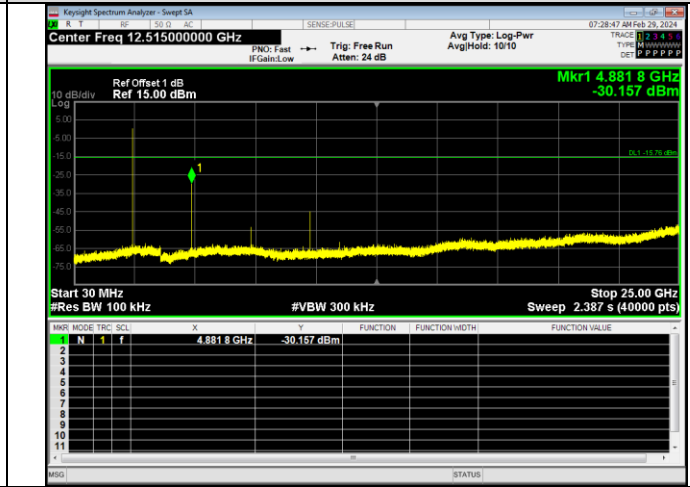
Out Of Band Emission
8DPSK_3-DH5_Channel 0



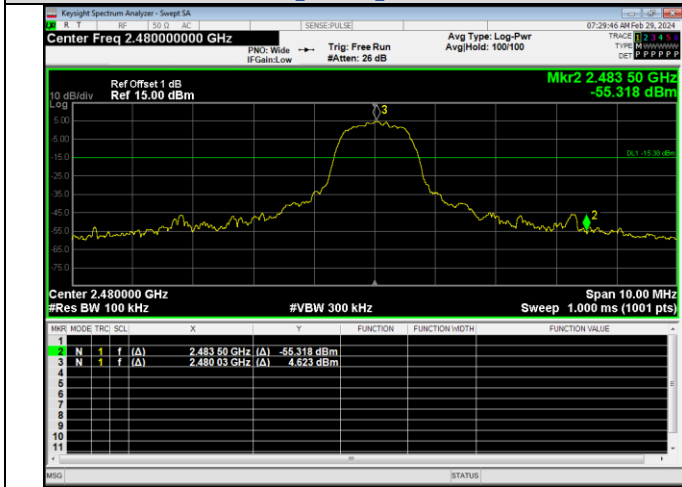
Spurious Emission
8DPSK_3-DH5_Channel 0



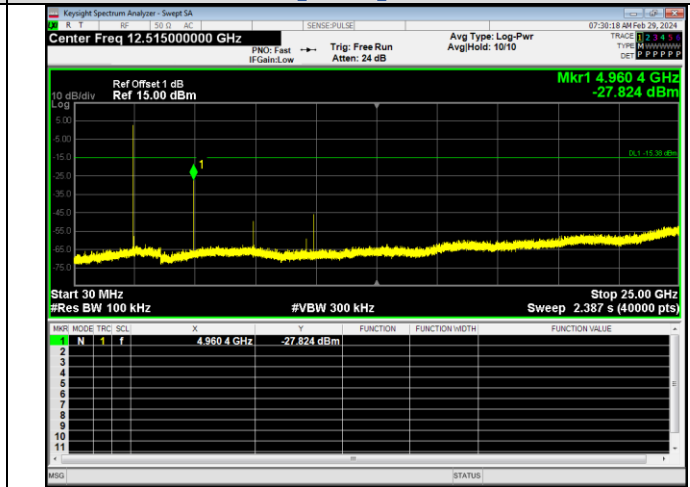
Out Of Band Emission
8DPSK_3-DH5_Channel 39



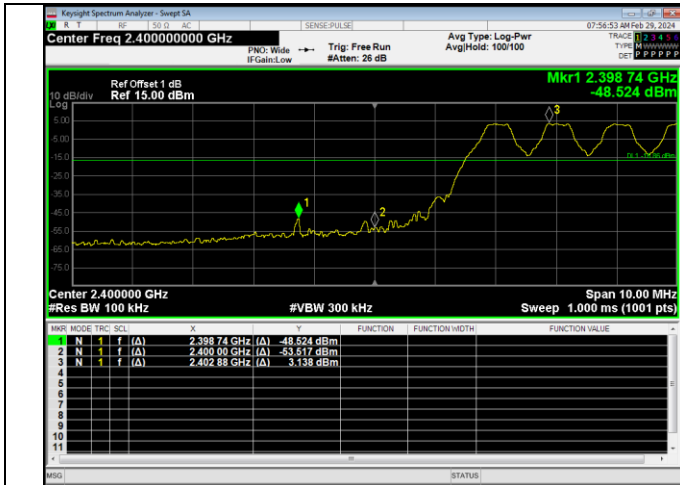
Spurious Emissions
8DPSK_3-DH5_Channel 39



Out Of Band Emission
8DPSK_3-DH5_Channel 78



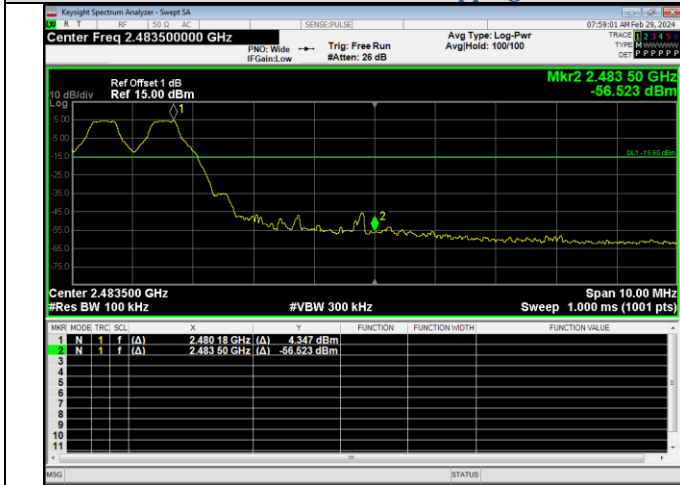
Spurious Emission
8DPSK_3-DH5_Channel 78



Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



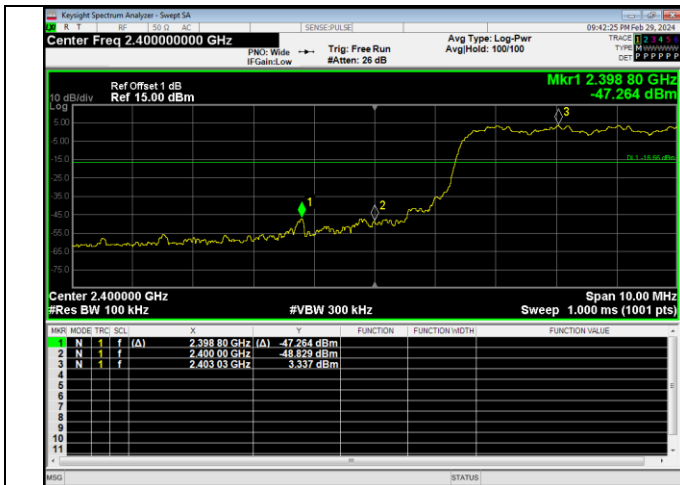
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



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)
8DPSK_3-DH5_Channel Hopping



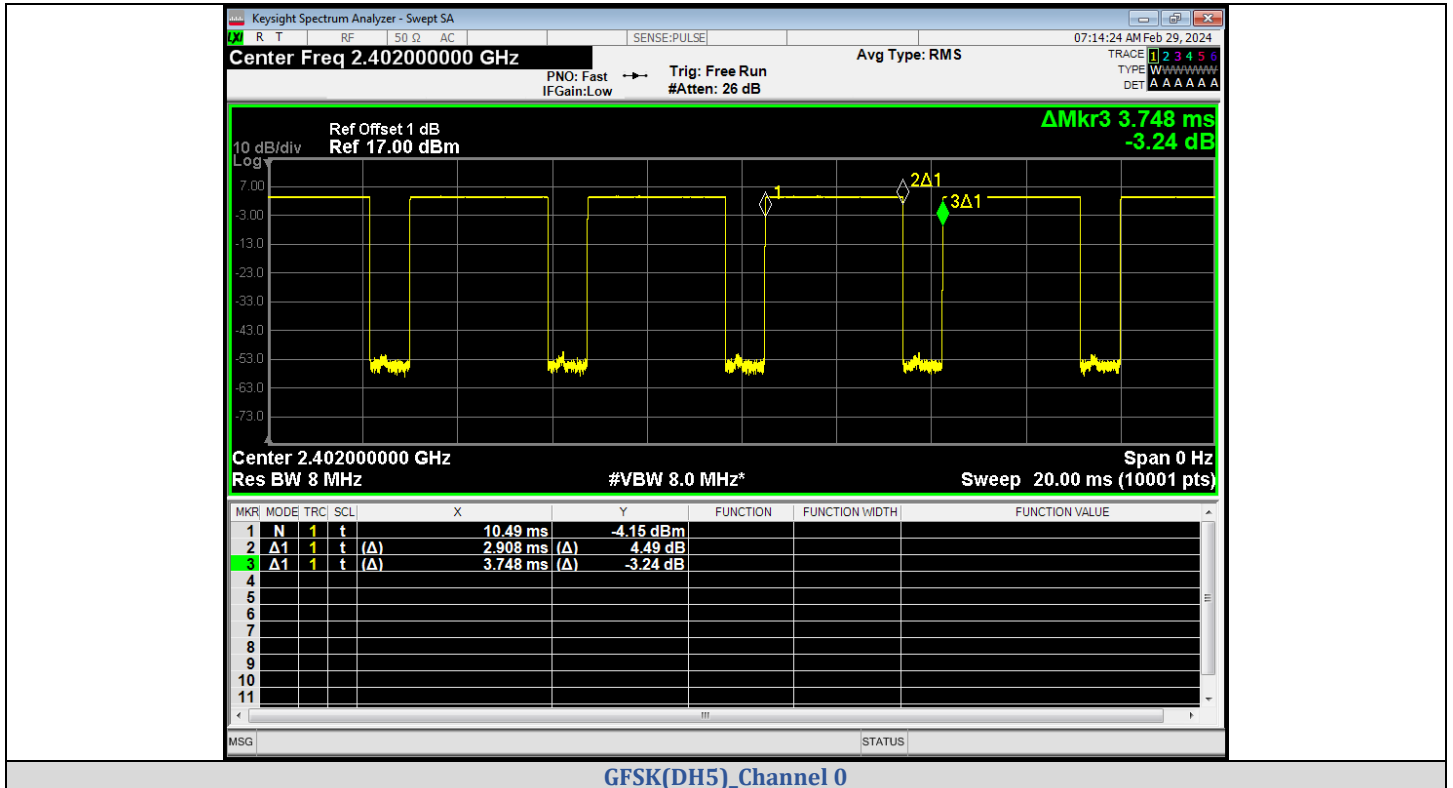
Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping

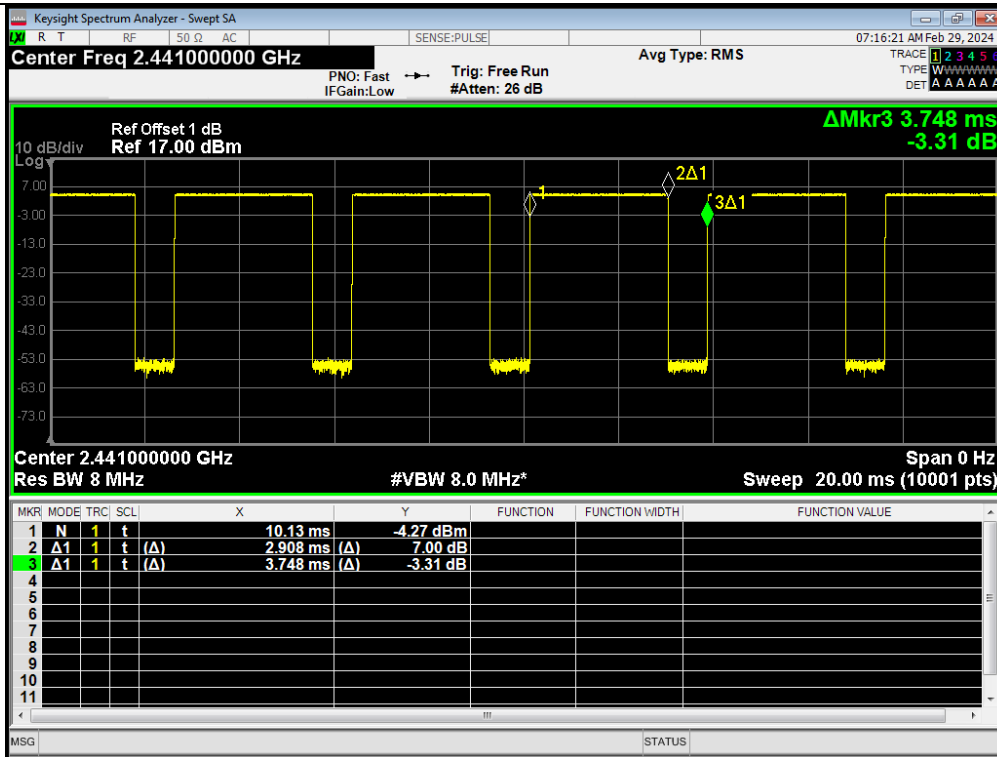


Duty Cycle
Test Result

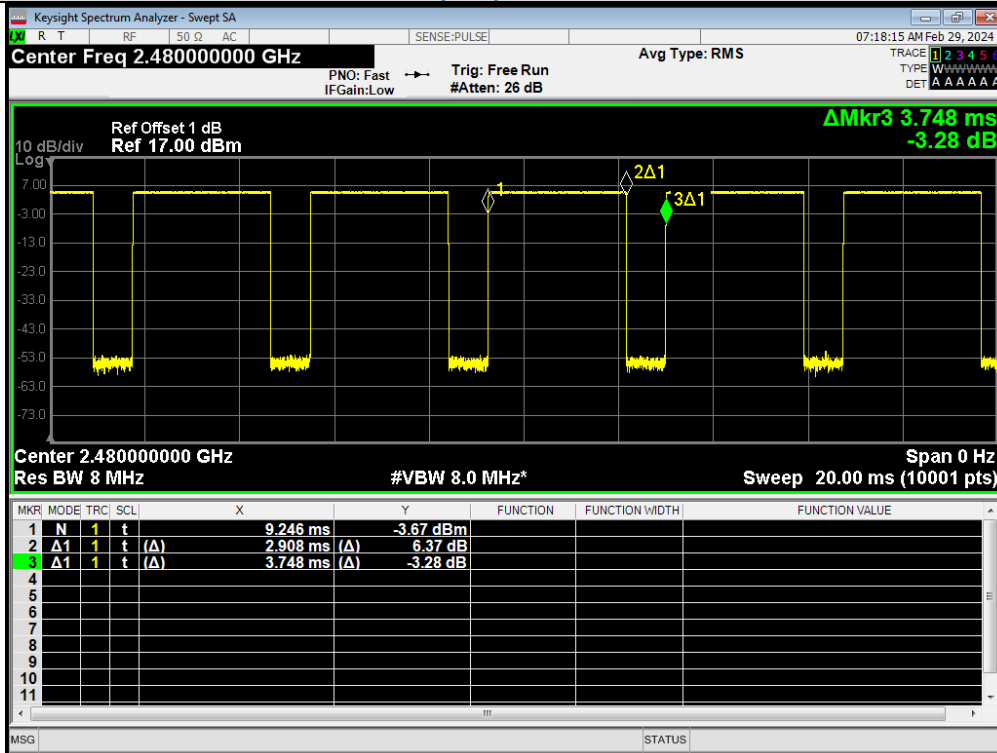
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
GFSK	DH5	0	2.908	3.748	77.59	0.7759	1.1019
		39	2.908	3.748	77.59	0.7759	1.1019
		78	2.908	3.748	77.59	0.7759	1.1019
$\pi/4$ DQPSK	2-DH5	0	2.912	3.748	77.69	0.7769	1.0963
		39	2.914	3.748	77.75	0.7775	1.093
		78	2.914	3.748	77.75	0.7775	1.093
8DPSK	3-DH5	0	2.916	3.748	77.80	0.7780	1.0902
		39	2.918	3.748	77.85	0.7785	1.0874
		78	2.916	3.748	77.80	0.7780	1.0902

Test Graphs

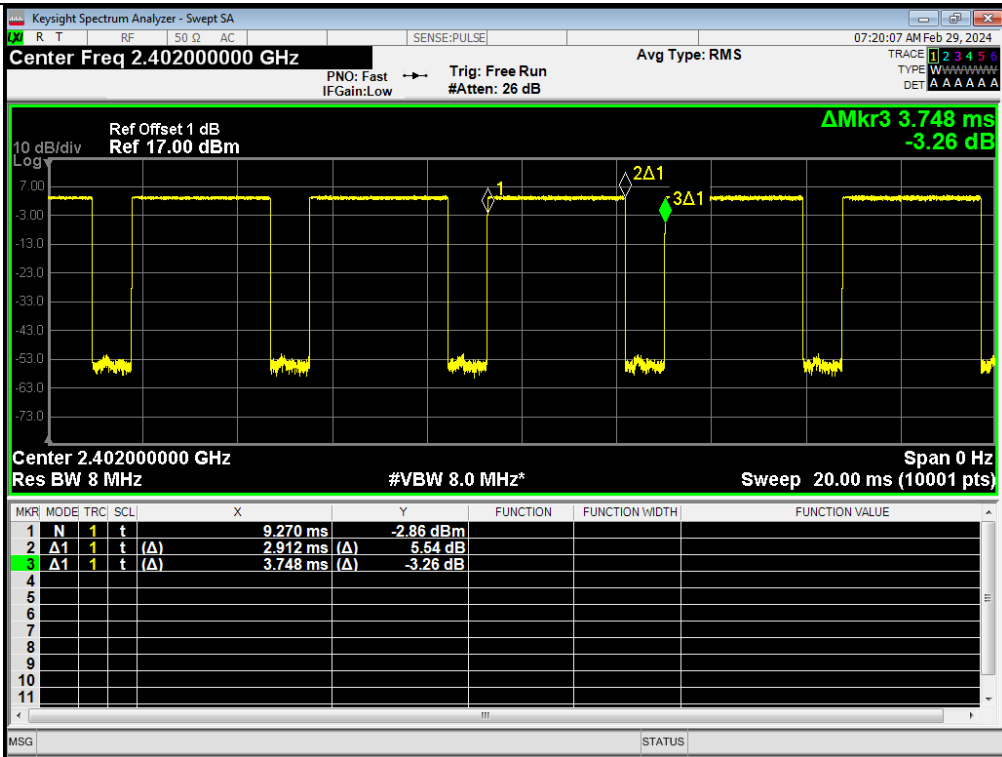




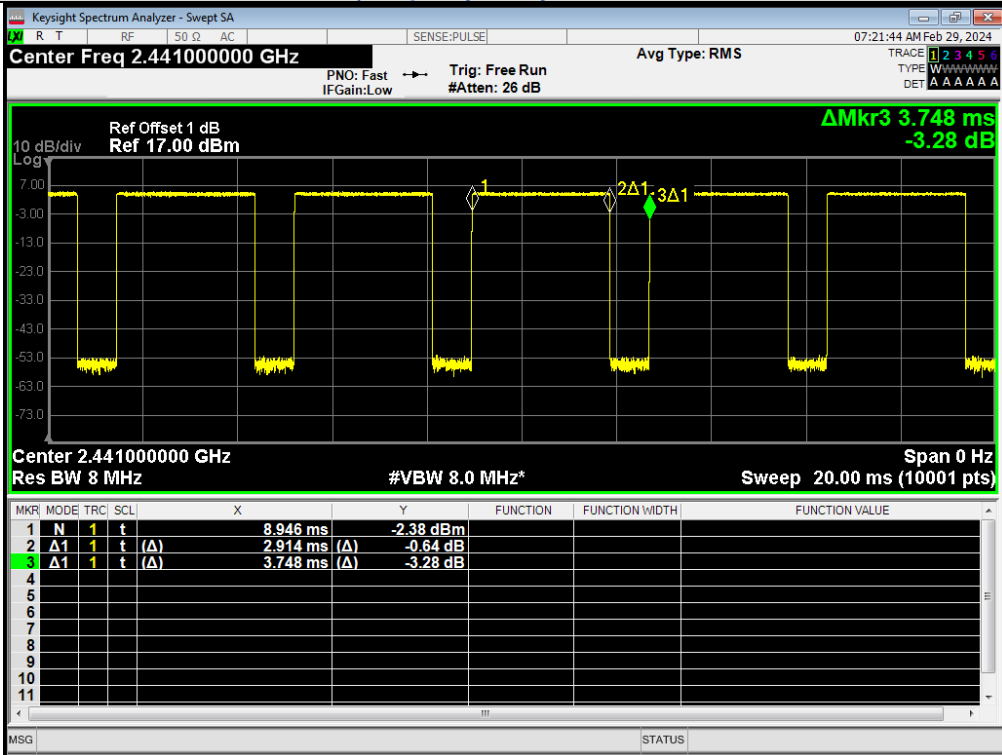
GFSK(DH5)_Channel 39



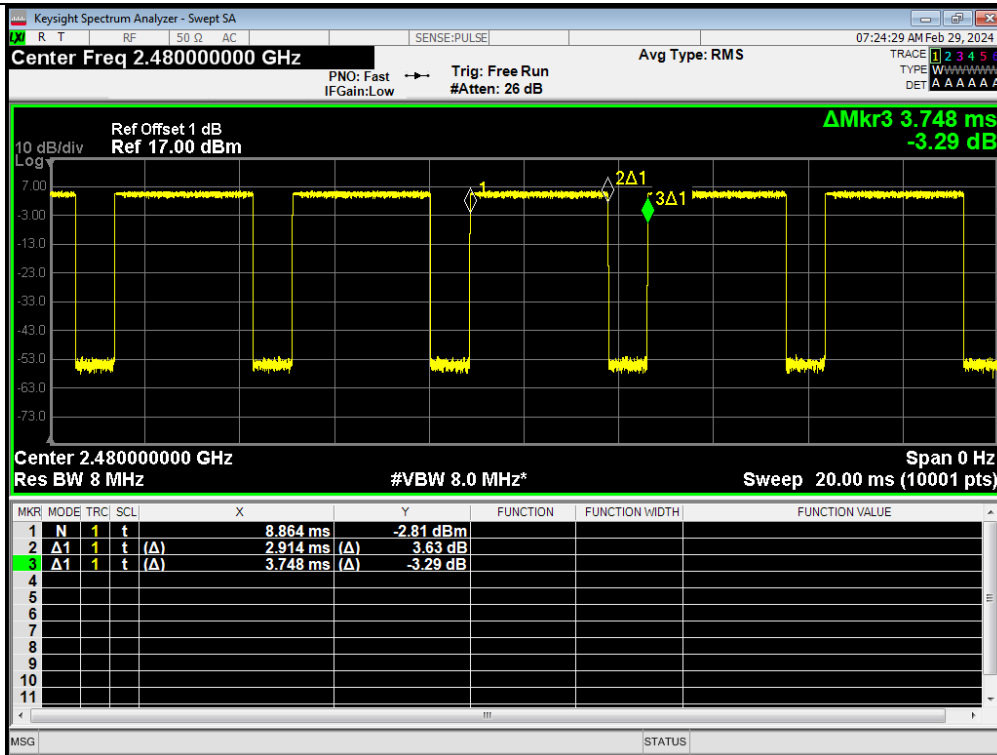
GFSK(DH5)_Channel 78



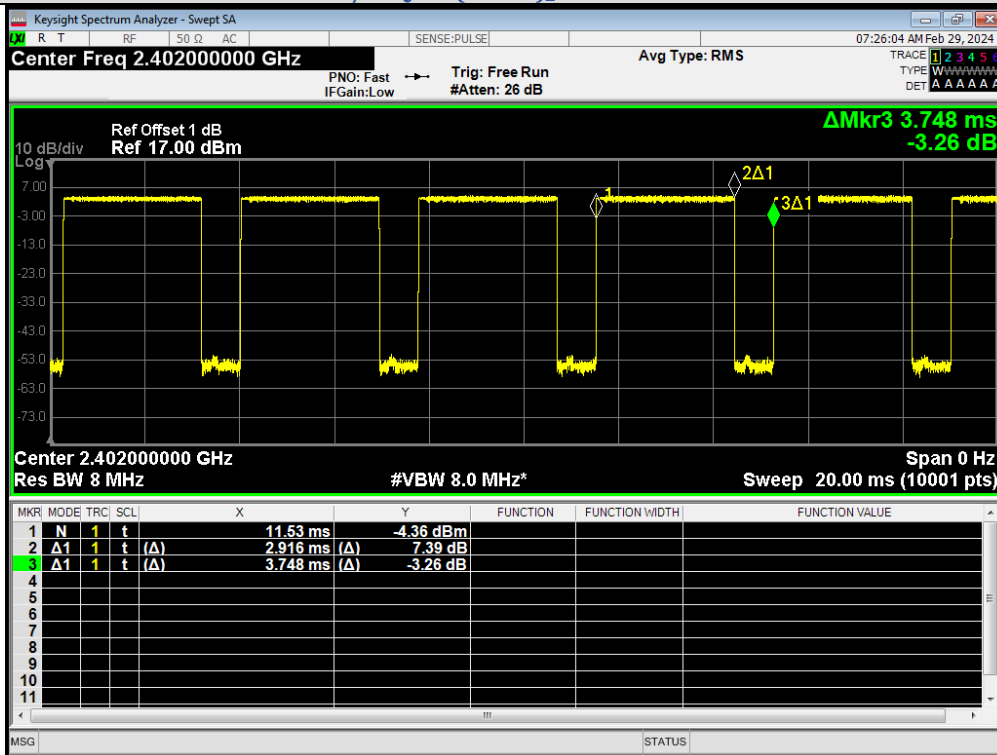
$\pi/4$ DQPSK(2-DH5)_Channel 0



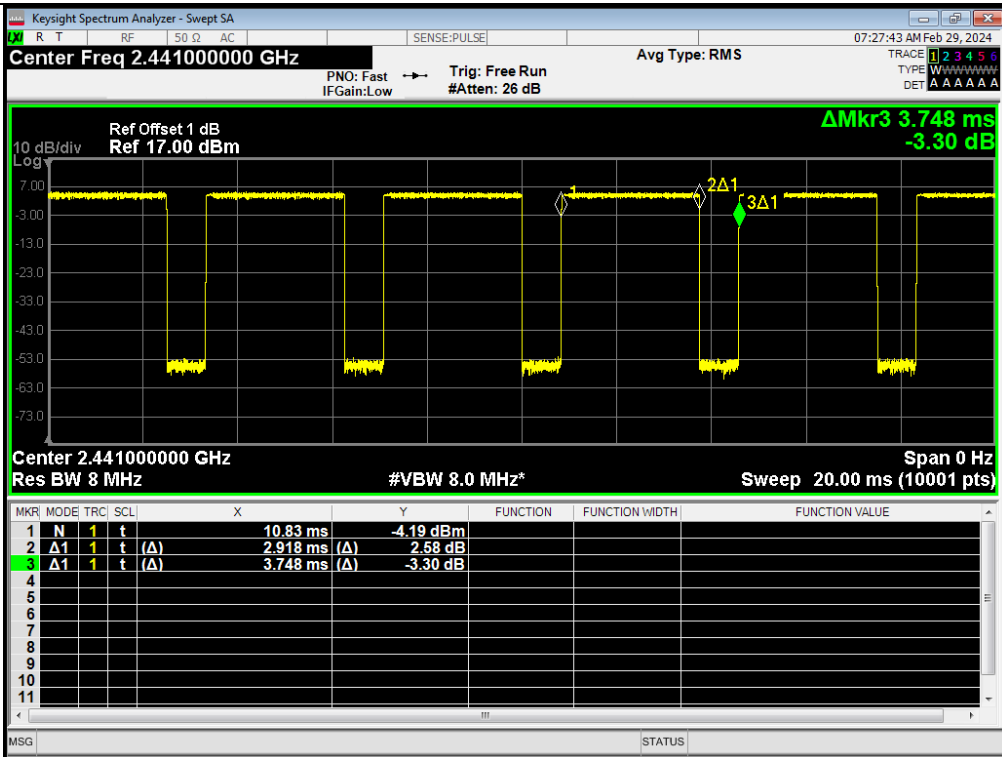
$\pi/4$ DQPSK(2-DH5)_Channel 39



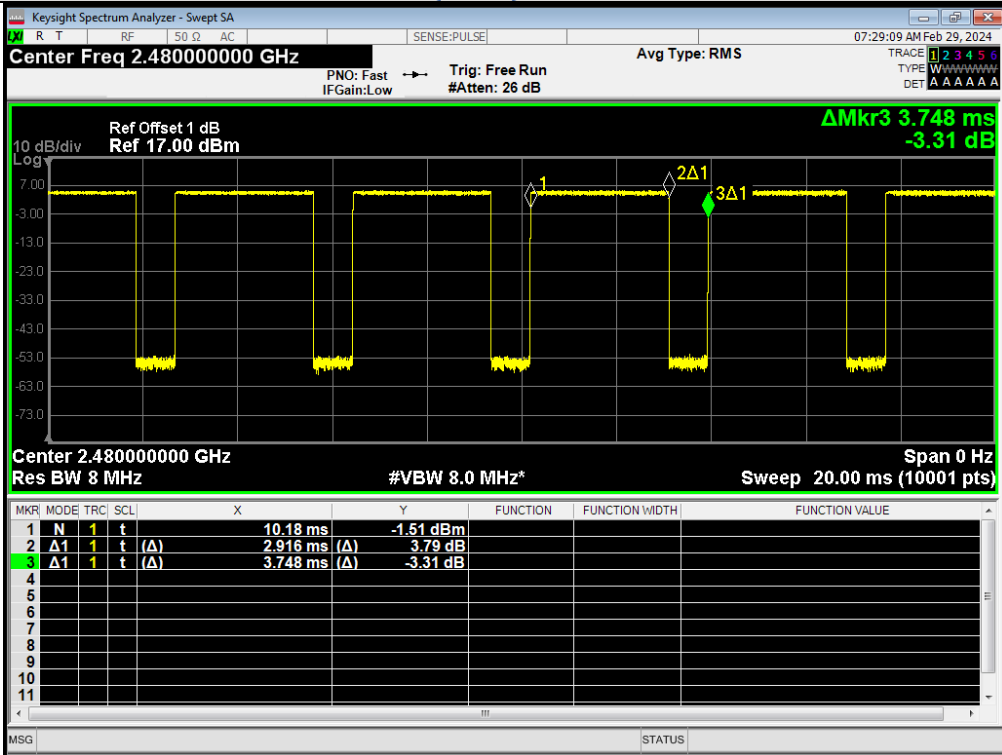
$\pi/4$ DQPSK(2-DH5)_Channel 78



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39



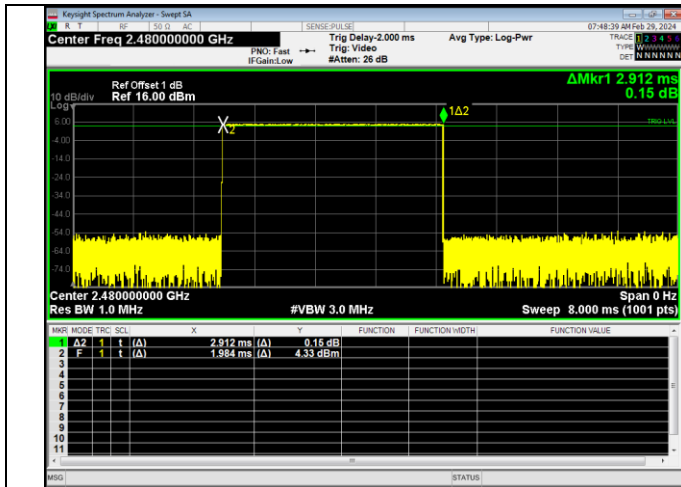
8DPSK(3-DH5)_Channel 78



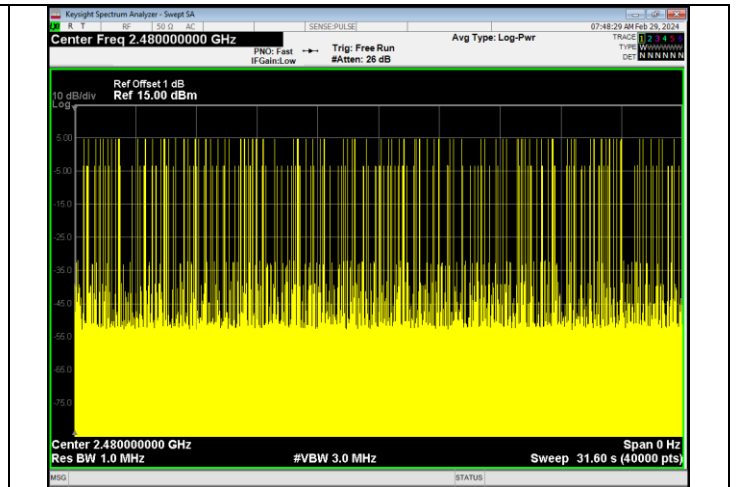
**Dwell Time
Test Result**

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	CH78 (2480MHz)	2.912	107	311.58	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.912	120	349.44		PASS
8DPSK	3-DH5		2.912	96	279.55		PASS

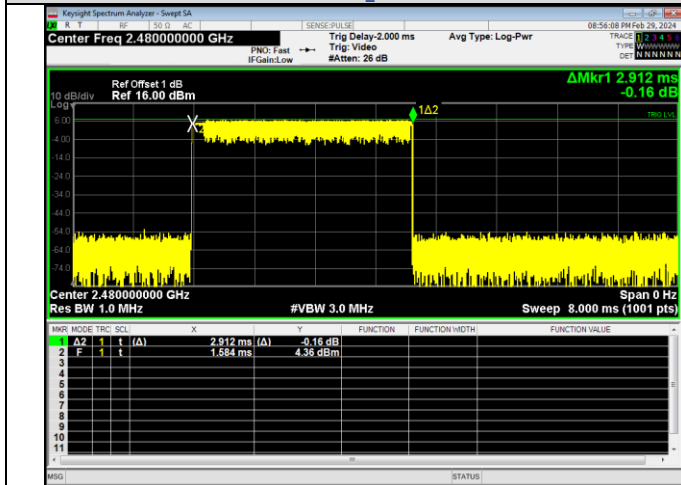
Test Graphs



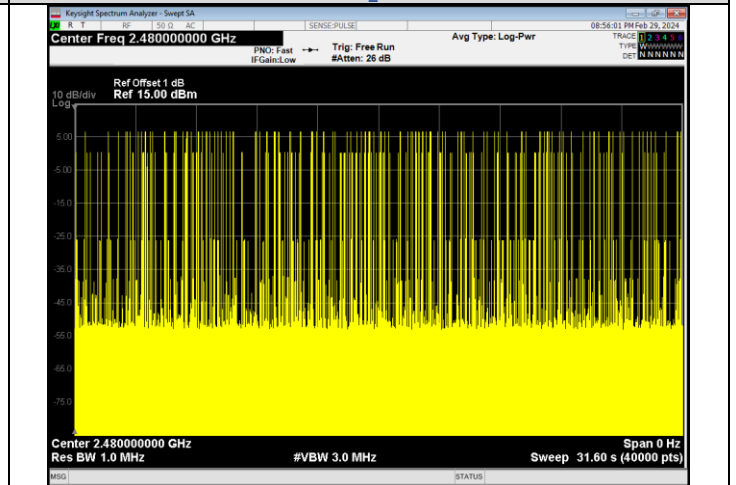
**Pulse Width
GFSK DH5**



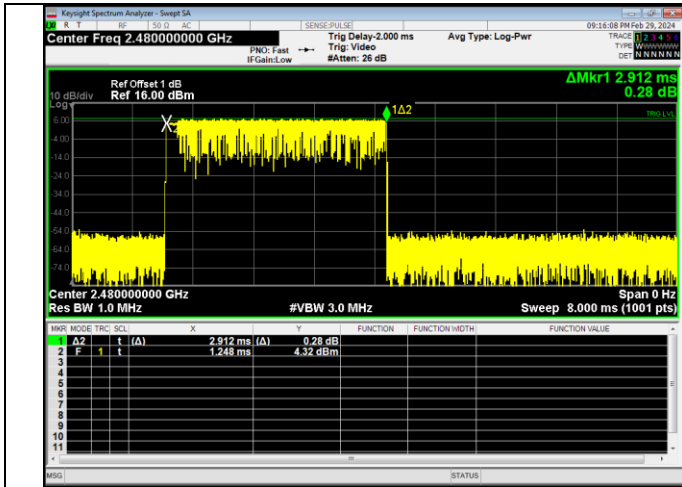
**Number of Pulses in 31.6 seconds
GFSK DH5**



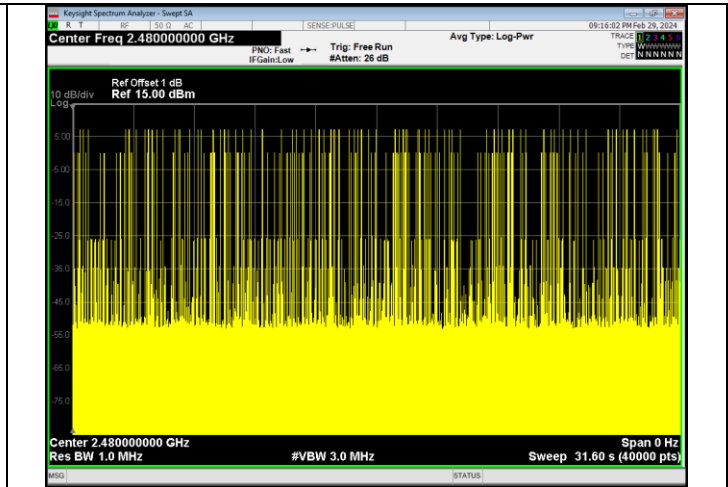
**Pulse Width
 $\pi/4$ DQPSK 2-DH5**



**Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH5**



Pulse Width
8DPSK_3-DH5



Number of Pulses in 31.6 seconds
8DPSK_3-DH5



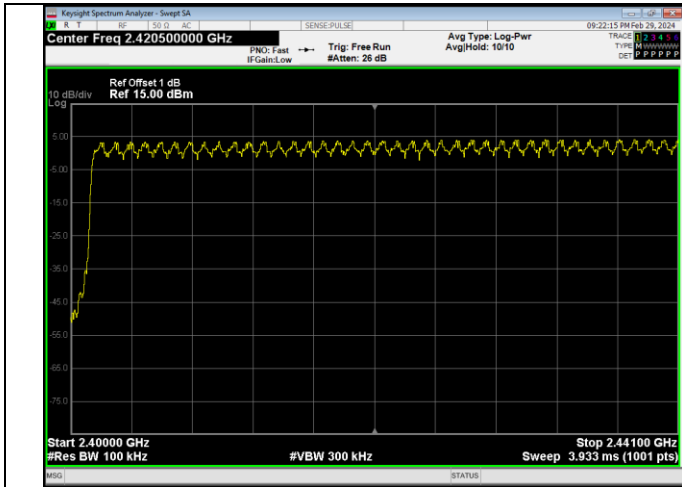
Number Of Hopping Channel

Test Result

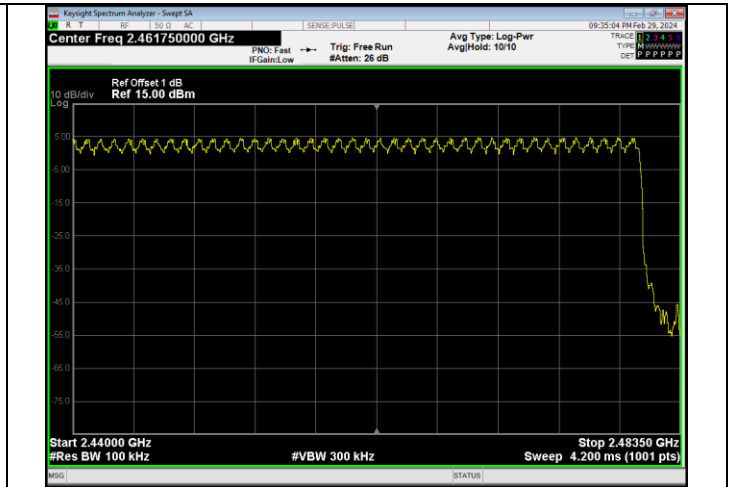
Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH5	79	15	PASS
$\pi/4$ DQPSK	2-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS

Test Graphs





**Low End Spectrum Channel Hopping Plot
8DPSK**



**High End Spectrum Channel Hopping Plot
8DPSK**