

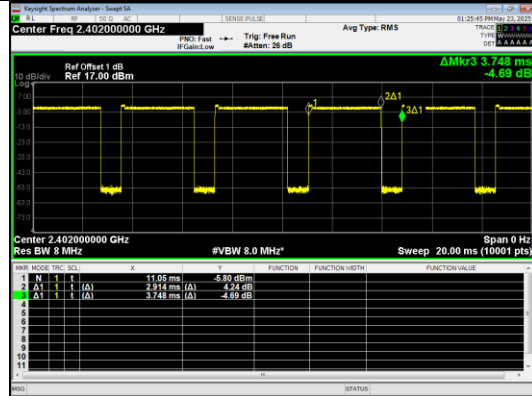
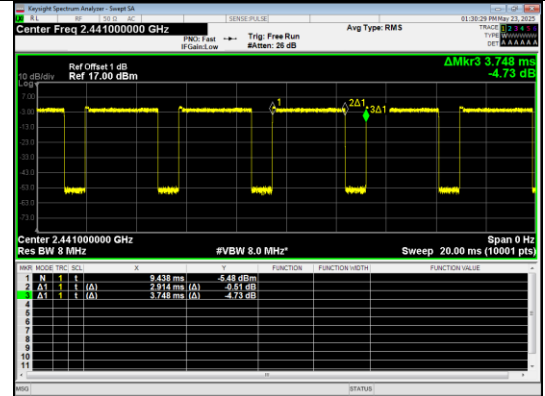
Duty Cycle

Test Result

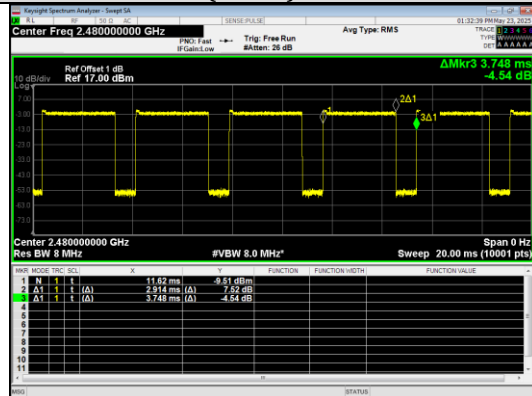
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.904	3.748	77.48	0.7748	1.1081	0.3444
		39	2.906	3.748	77.53	0.7753	1.1053	0.3441
		78	2.904	3.748	77.48	0.7748	1.1081	0.3444
$\pi/4$ DQPSK	2-DH5	0	2.912	3.748	77.69	0.7769	1.0963	0.3434
		39	2.912	3.748	77.69	0.7769	1.0963	0.3434
		78	2.912	3.748	77.69	0.7769	1.0963	0.3434
8DPSK	3-DH5	0	2.914	3.748	77.75	0.7775	1.093	0.3432
		39	2.914	3.748	77.75	0.7775	1.093	0.3432
		78	2.914	3.748	77.75	0.7775	1.093	0.3432

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

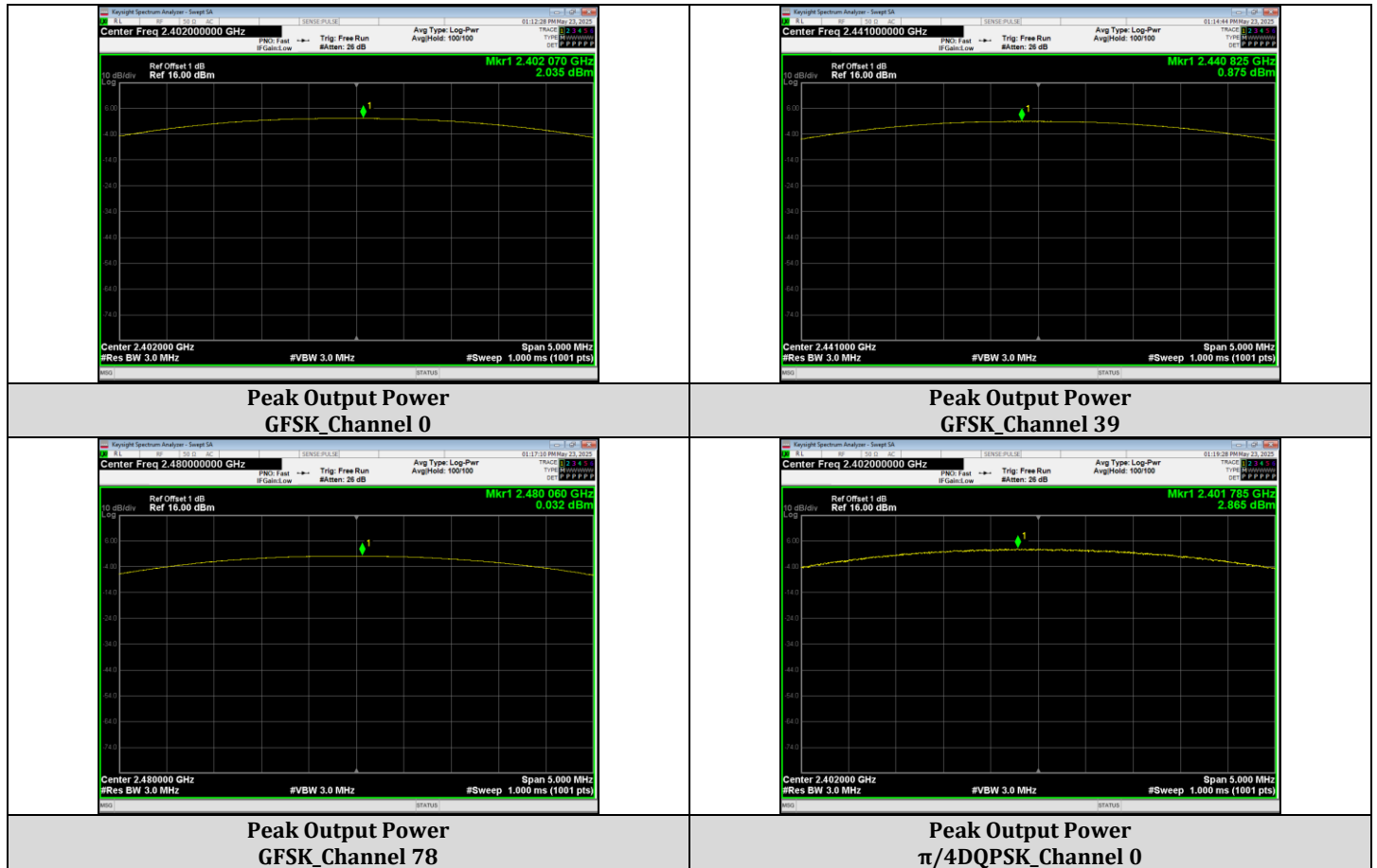
8DPSK(3-DH5)_Channel 78

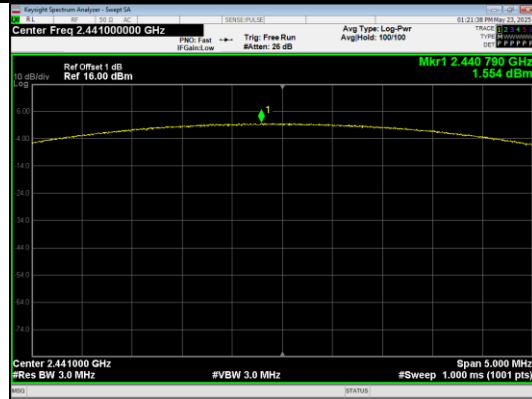
Conducted Output Power

Test Result

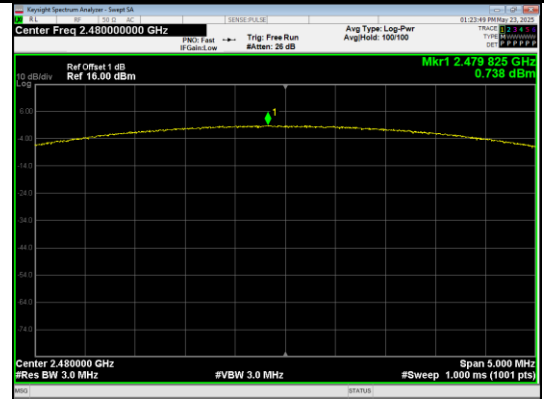
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	2.04	≤30	PASS
		39	0.88		PASS
		78	0.03		PASS
$\pi/4$ DQPSK	2-DH5	0	2.87	≤20.97	PASS
		39	1.55		PASS
		78	0.74		PASS
8DPSK	3-DH5	0	3.12		PASS
		39	1.73		PASS
		78	1.09		PASS

Test Graphs

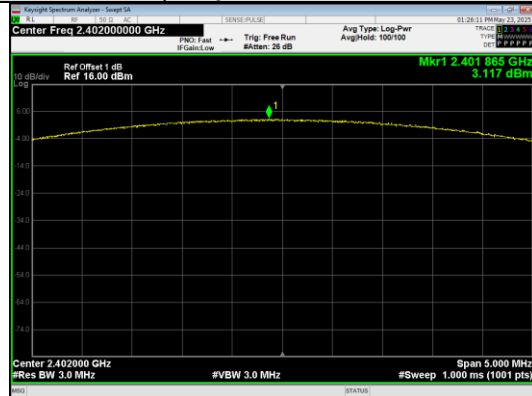




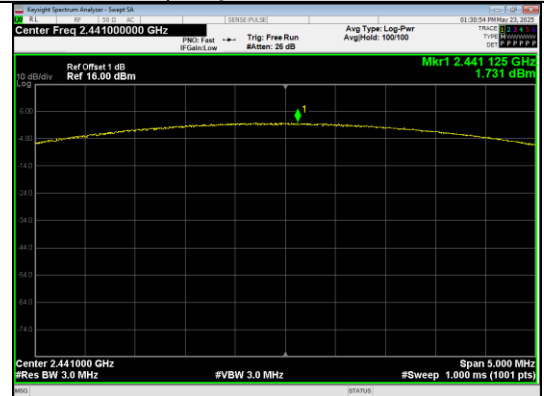
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



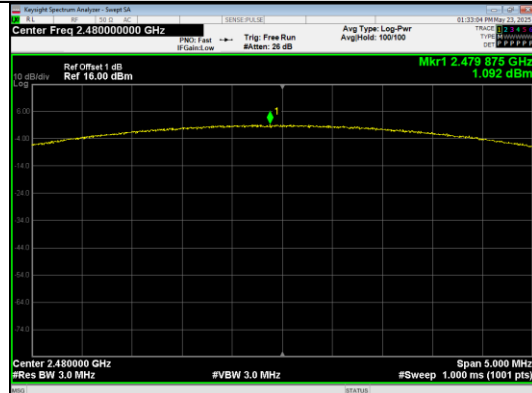
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



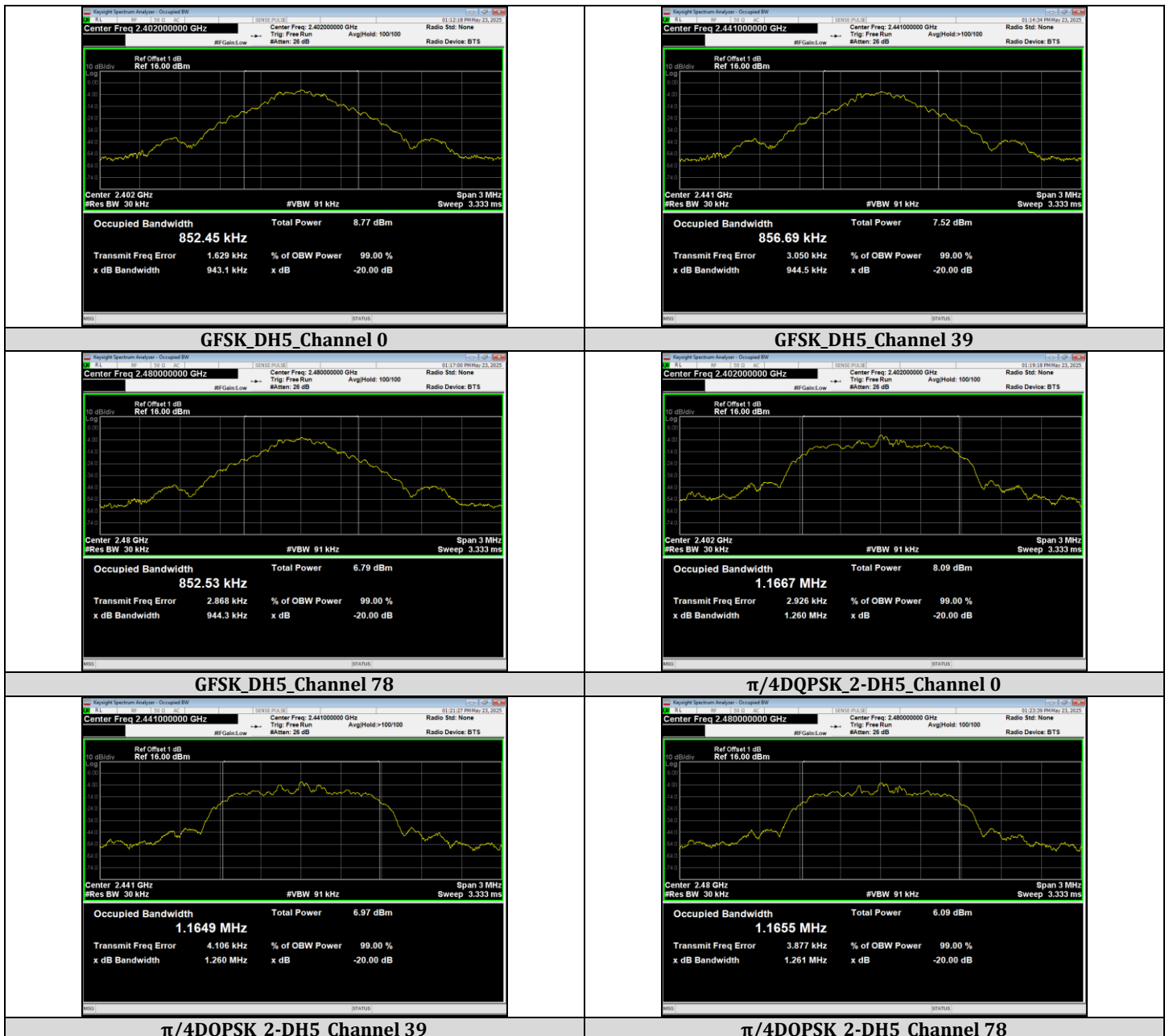
Peak Output Power
8DPSK_Channel 39

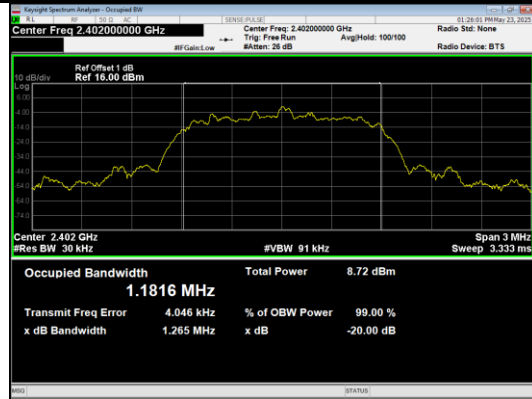


Peak Output Power
8DPSK_Channel 78

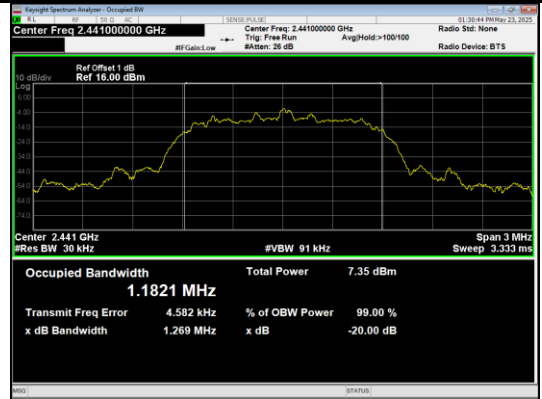
**20dB Bandwidth****Test Result**

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9431
	39	2441 MHz	0.9445
	78	2480 MHz	0.9443
$\pi/4$ DQPSK	0	2402 MHz	1.260
	39	2441 MHz	1.260
	78	2480 MHz	1.261
8DPSK	0	2402 MHz	1.265
	39	2441 MHz	1.269
	78	2480 MHz	1.268

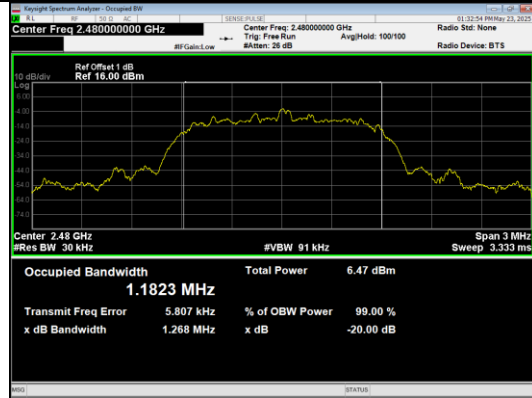
Test Graphs



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



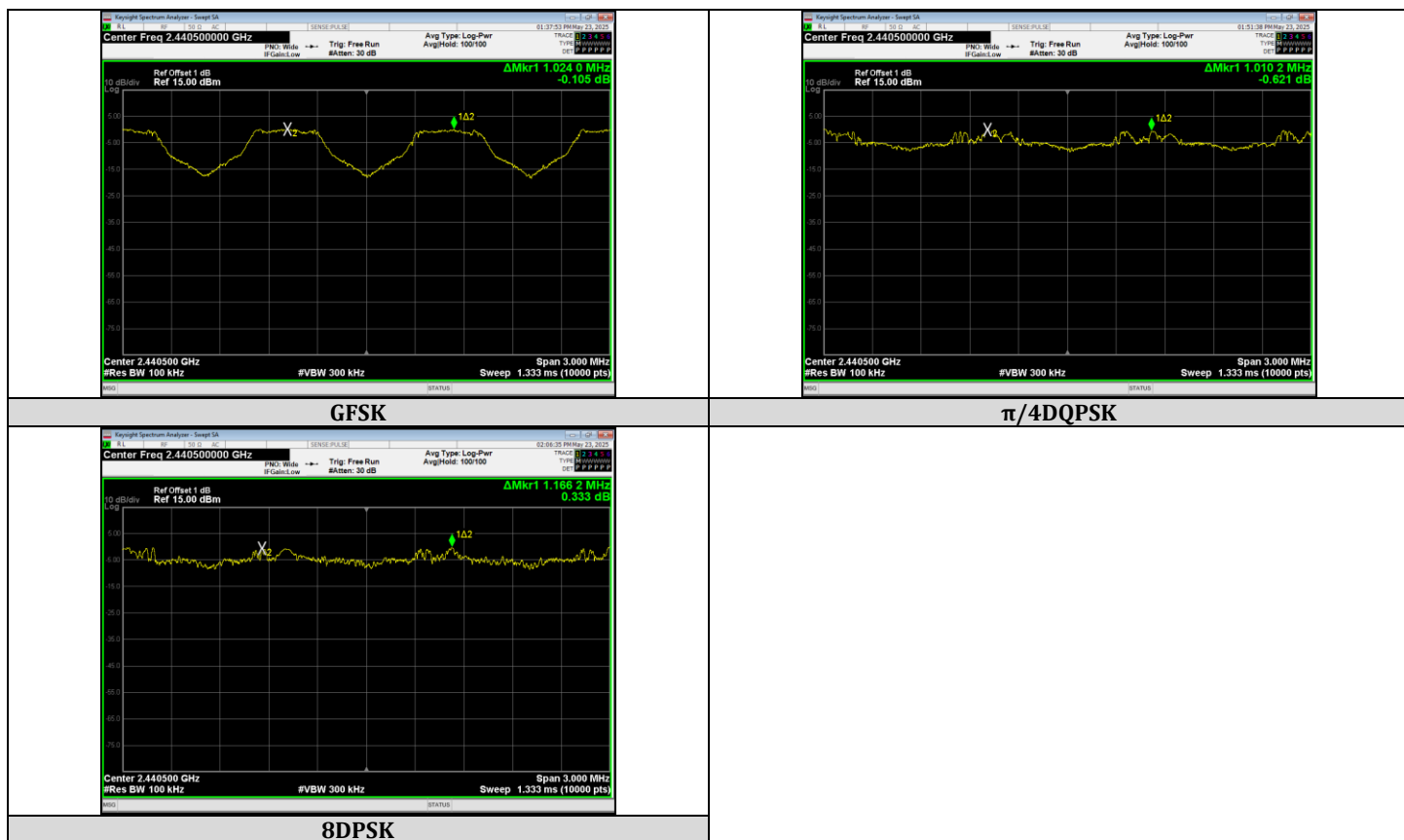
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.0129	2441.0369	1.0240	0.63	PASS
$\pi/4$ DQPSK	2-DH5	2440.0075	2441.0177	1.0102	0.841	PASS
8DPSK	3-DH5	2439.859	2441.0252	1.1662	0.846	PASS

Test Graphs

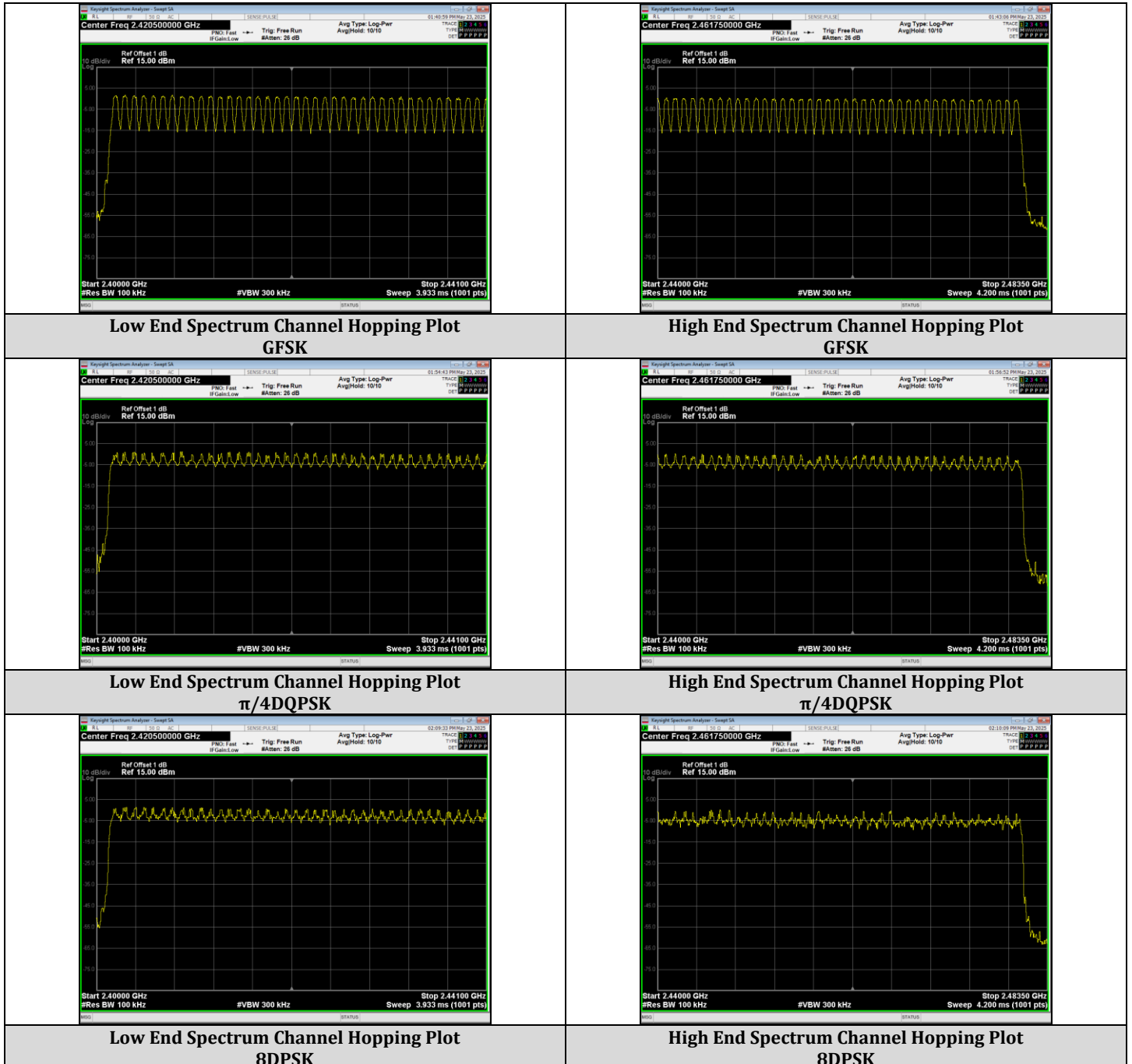


Number Of Hopping Channel

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

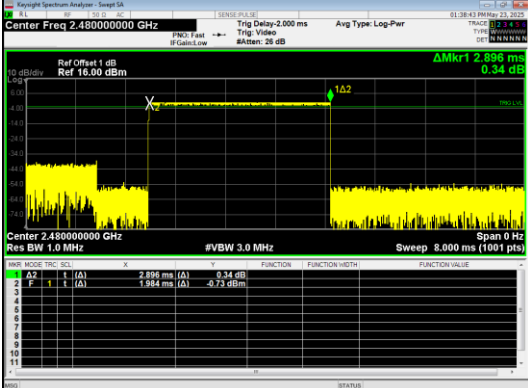
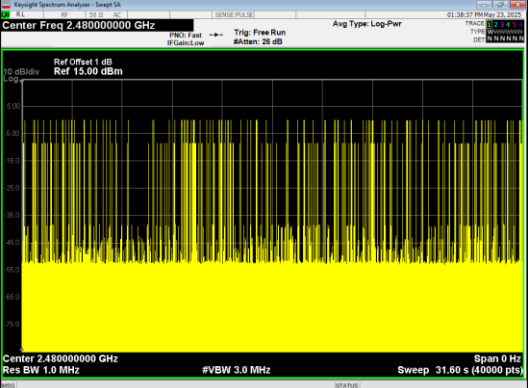
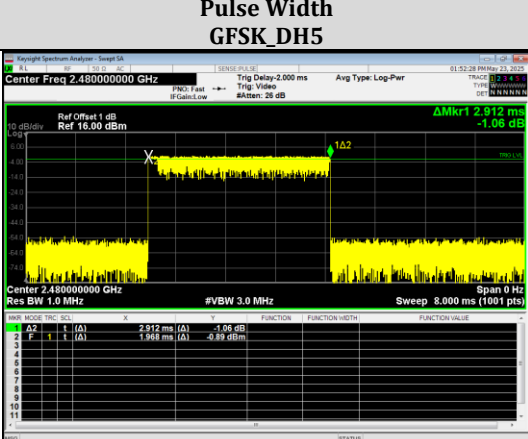
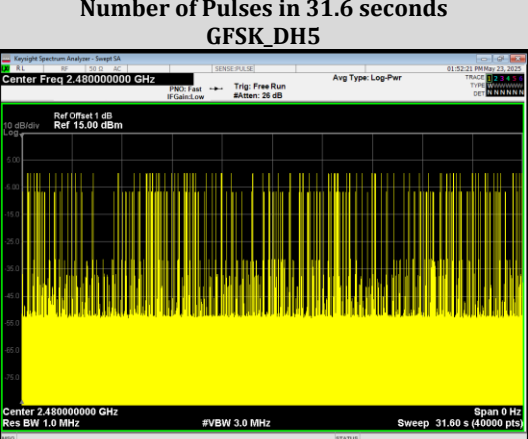
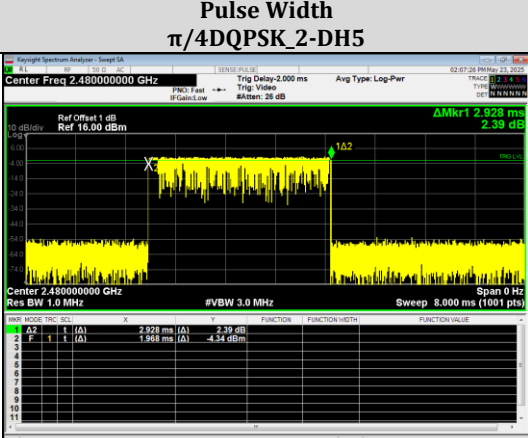
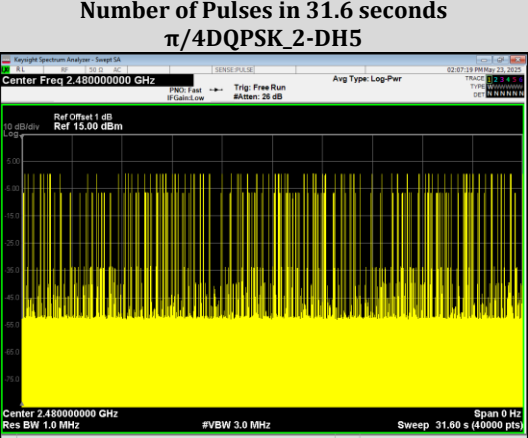


Dwell Time

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)	2.896	101	292.5	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.912	101	294.11		PASS
8DPSK	3-DH5		2.928	105	307.44		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



Conducted Out Of Band Emission

Test Result

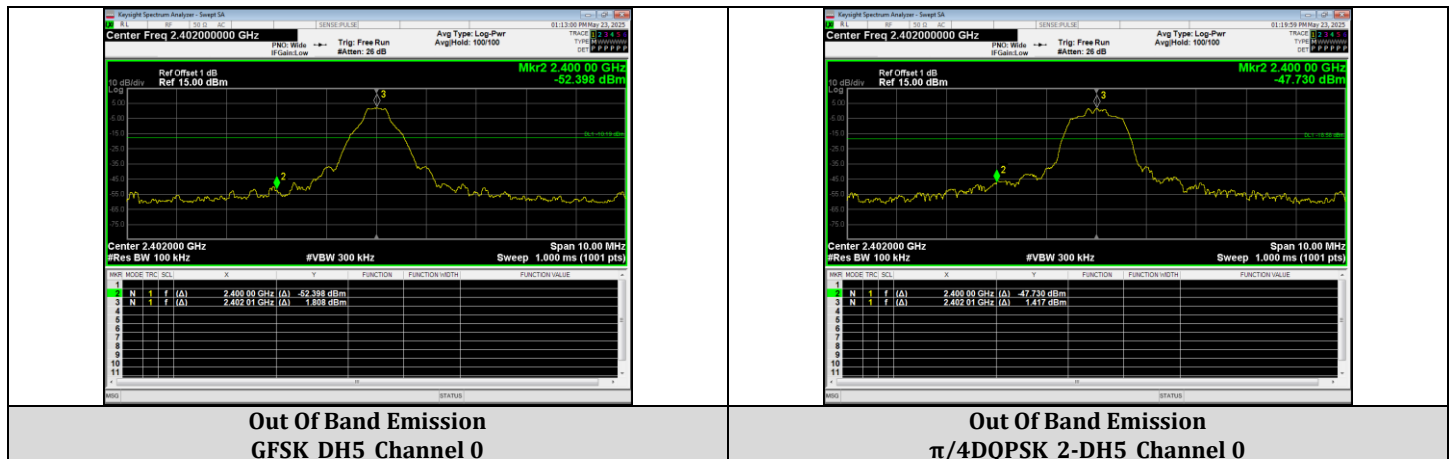
Non-Hopping

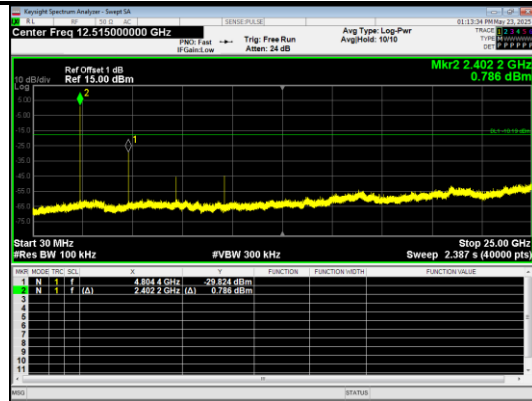
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-52.398	-18.19	-34.208	PASS
			4804.38	-29.824	-18.19	-11.634	PASS
		39	4881.79	-32.239	-19.61	-12.629	PASS
			2483.50	-59.853	-20.32	-39.533	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-47.730	-18.58	-29.150	PASS
			4803.76	-29.205	-18.58	-10.625	PASS
		39	4881.79	-31.707	-20.35	-11.357	PASS
			2483.50	-60.988	-20.76	-40.228	PASS
8DPSK	3-DH5	0	2400.00	-49.785	-18.66	-31.125	PASS
			2646.30	-23.174	-18.66	-4.514	PASS
		39	4882.42	-37.180	-19.98	-17.200	PASS
			2483.50	-59.915	-20.72	-39.195	PASS
		78	4959.83	-36.867	-20.72	-16.147	PASS

Hopping

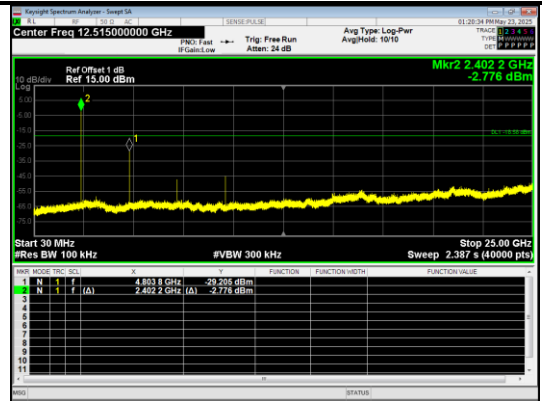
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-52.861	-18.48	-34.381	PASS
			2483.50	-59.995	-20.53	-39.465	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-47.620	-18.8	-28.820	PASS
			2483.50	-60.971	-20.75	-40.221	PASS
8DPSK	3-DH5		2397.12	-52.692	-18.76	-33.932	PASS
			2400.00	-55.721	-18.76	-36.961	PASS
			2483.50	-60.914	-21.07	-39.844	PASS

Test Graphs

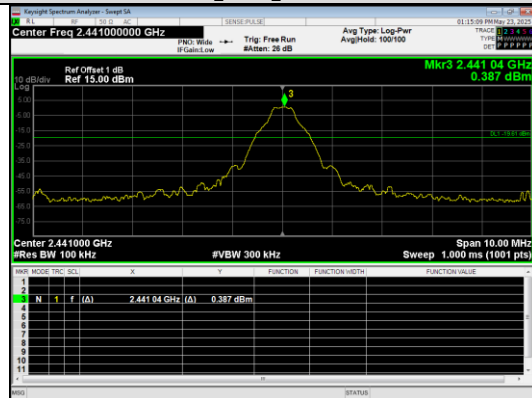




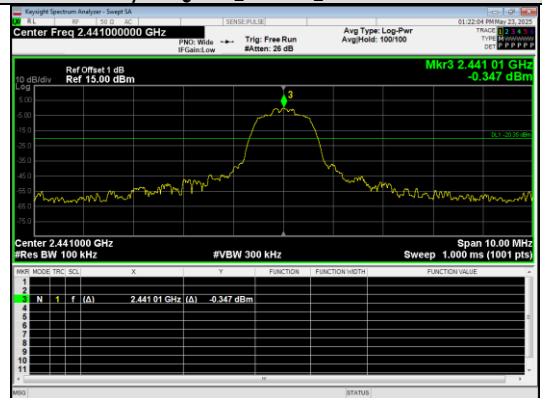
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



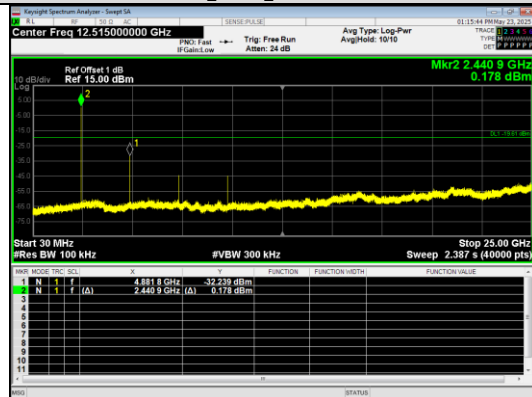
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



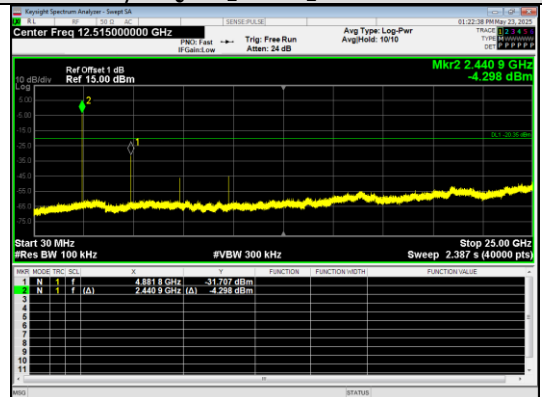
Out Of Band Emission
GFSK_DH5_Channel 39



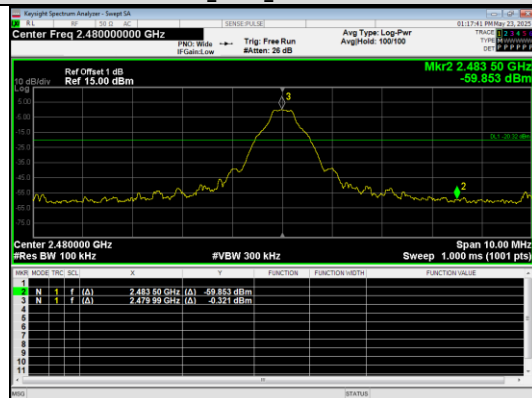
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



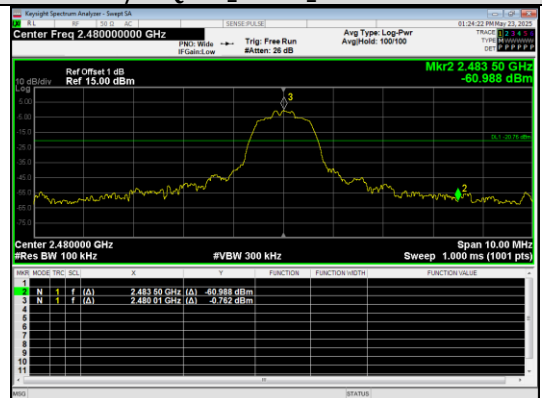
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



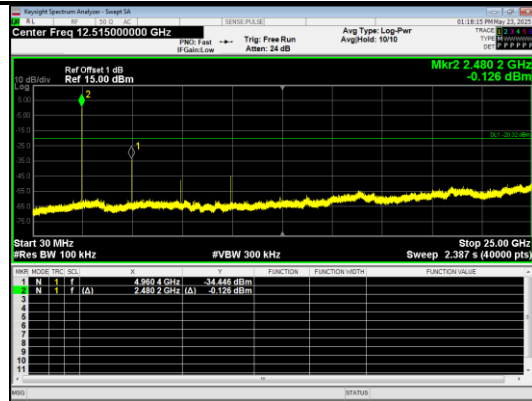
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



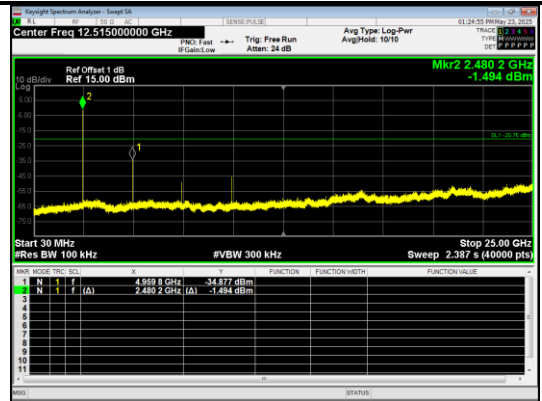
Out Of Band Emission
GFSK_DH5_Channel 78



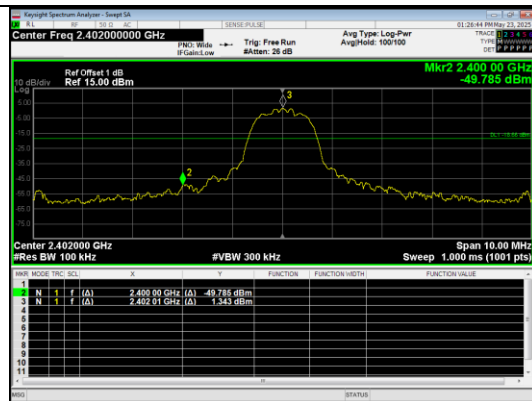
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



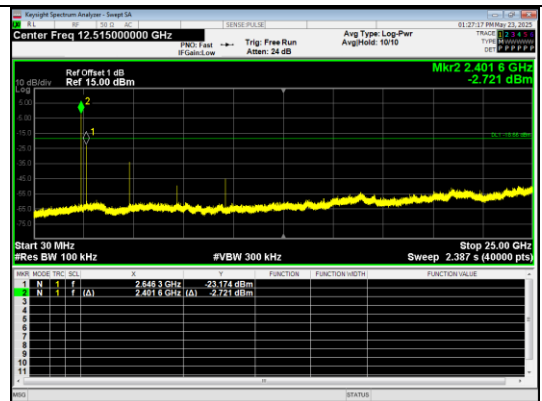
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



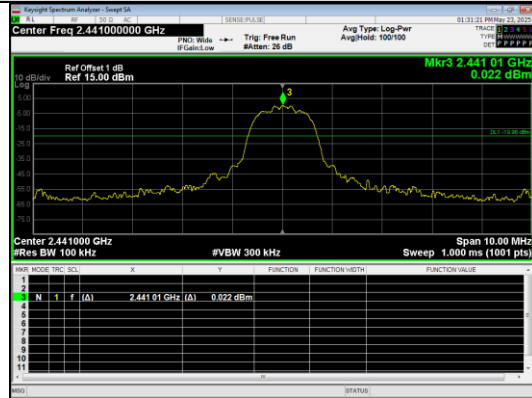
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



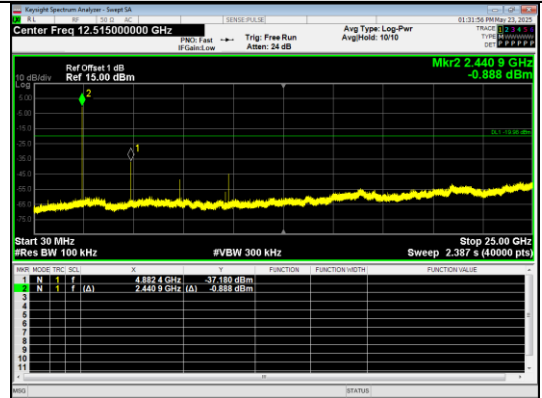
Out Of Band Emission
8DPSK_3-DH5_Channel 0



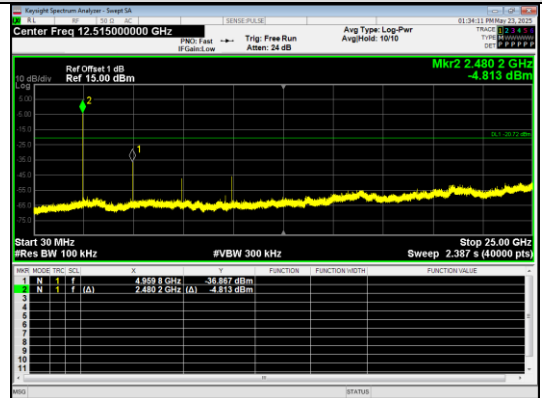
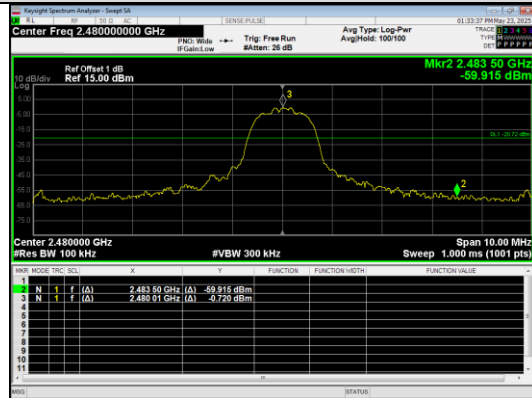
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



Out Of Band Emission
8DPSK_3-DH5_Channel 39

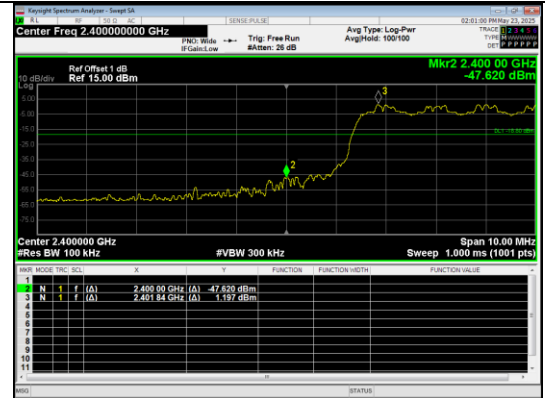
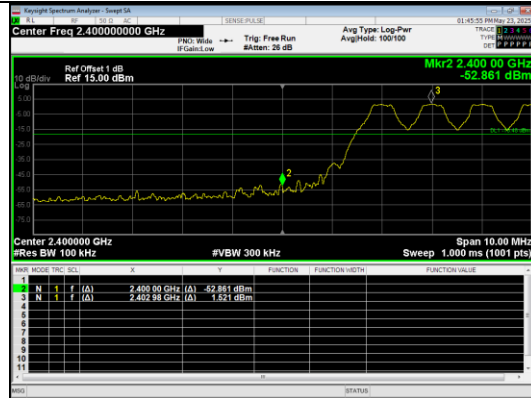


30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



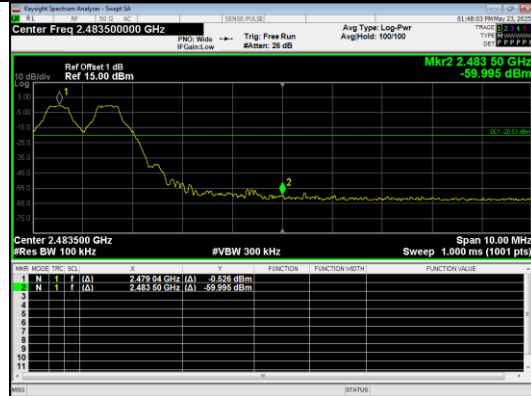
Out Of Band Emission 8DPSK_3-DH5_Channel 78

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) $\pi/4$ 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

***** End of Report *****