

Duty Cycle

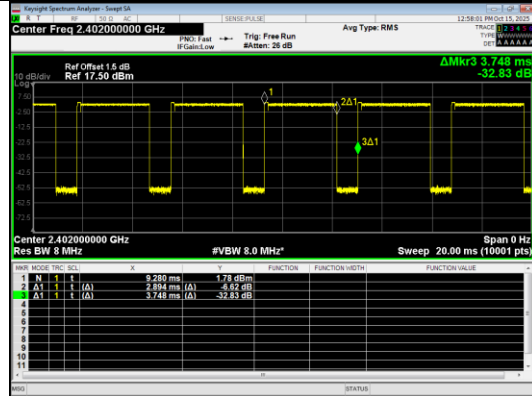
Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.886	3.748	77.00	0.7700	1.1351	0.3465
		39	2.886	3.748	77.00	0.7700	1.1351	0.3465
		78	2.886	3.748	77.00	0.7700	1.1351	0.3465
$\pi/4$ DQPSK	2-DH5	0	2.892	3.748	77.16	0.7716	1.1261	0.3458
		39	2.890	3.748	77.11	0.7711	1.1289	0.3460
		78	2.892	3.748	77.16	0.7716	1.1261	0.3458
8DPSK	3-DH5	0	2.894	3.748	77.21	0.7721	1.1233	0.3455
		39	2.894	3.748	77.21	0.7721	1.1233	0.3455
		78	2.892	3.748	77.16	0.7716	1.1261	0.3458

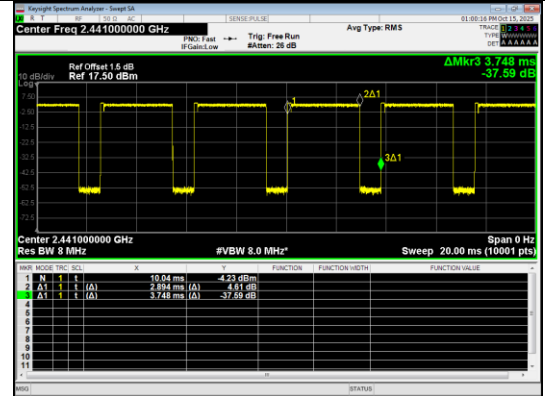
Test Graphs



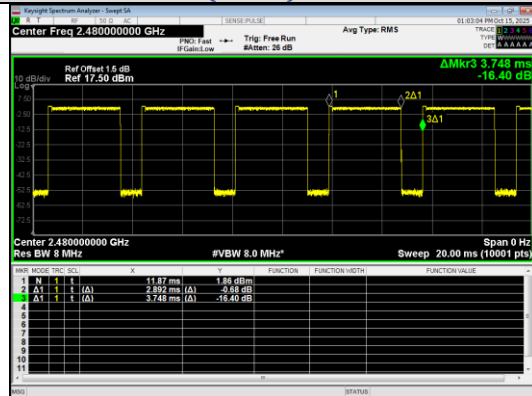
$\pi/4$ DQPSK(2-DH5)_Channel 39



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



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39

8DPSK(3-DH5)_Channel 78

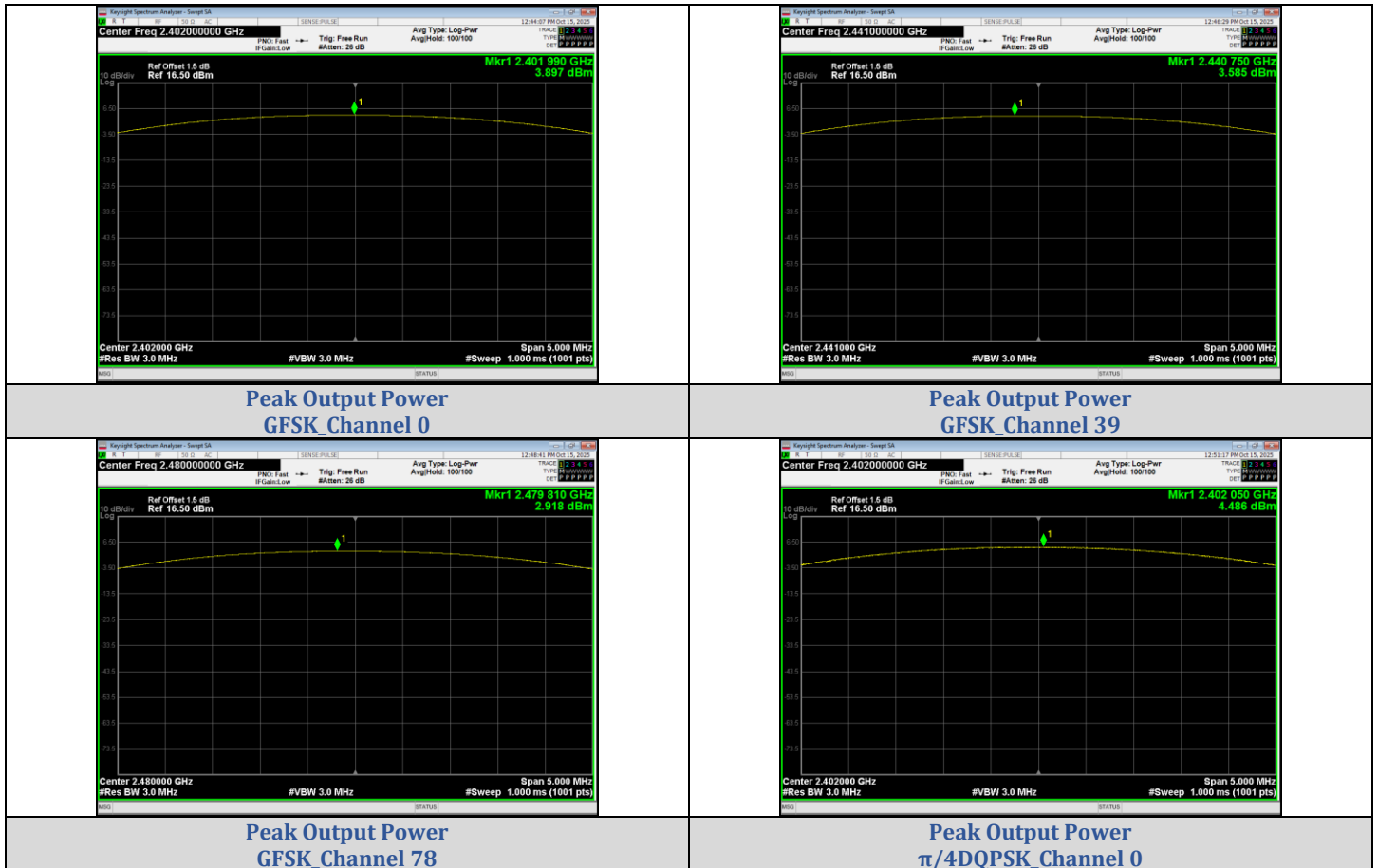


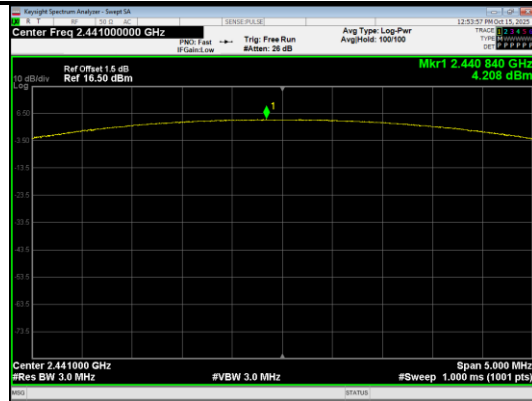
Conducted Output Power

Test Result

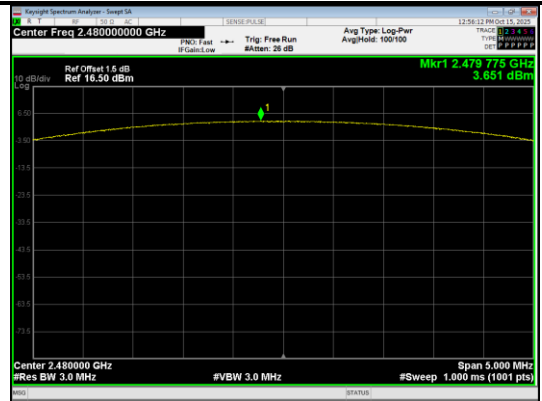
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	3.90	≤30	PASS
		39	3.58		PASS
		78	2.92		PASS
$\pi/4$ DQPSK	2-DH5	0	4.49	≤20.97	PASS
		39	4.21		PASS
		78	3.65		PASS
8DPSK	3-DH5	0	4.81		PASS
		39	4.47		PASS
		78	3.94		PASS

Test Graphs

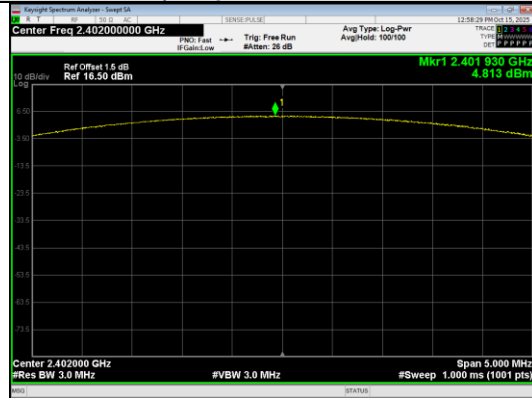




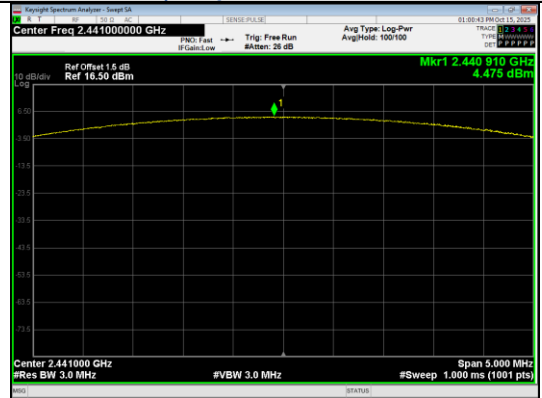
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



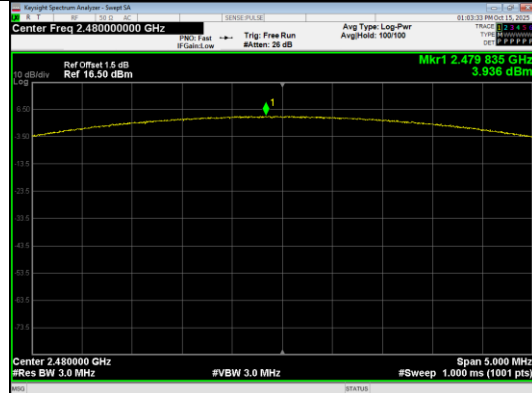
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



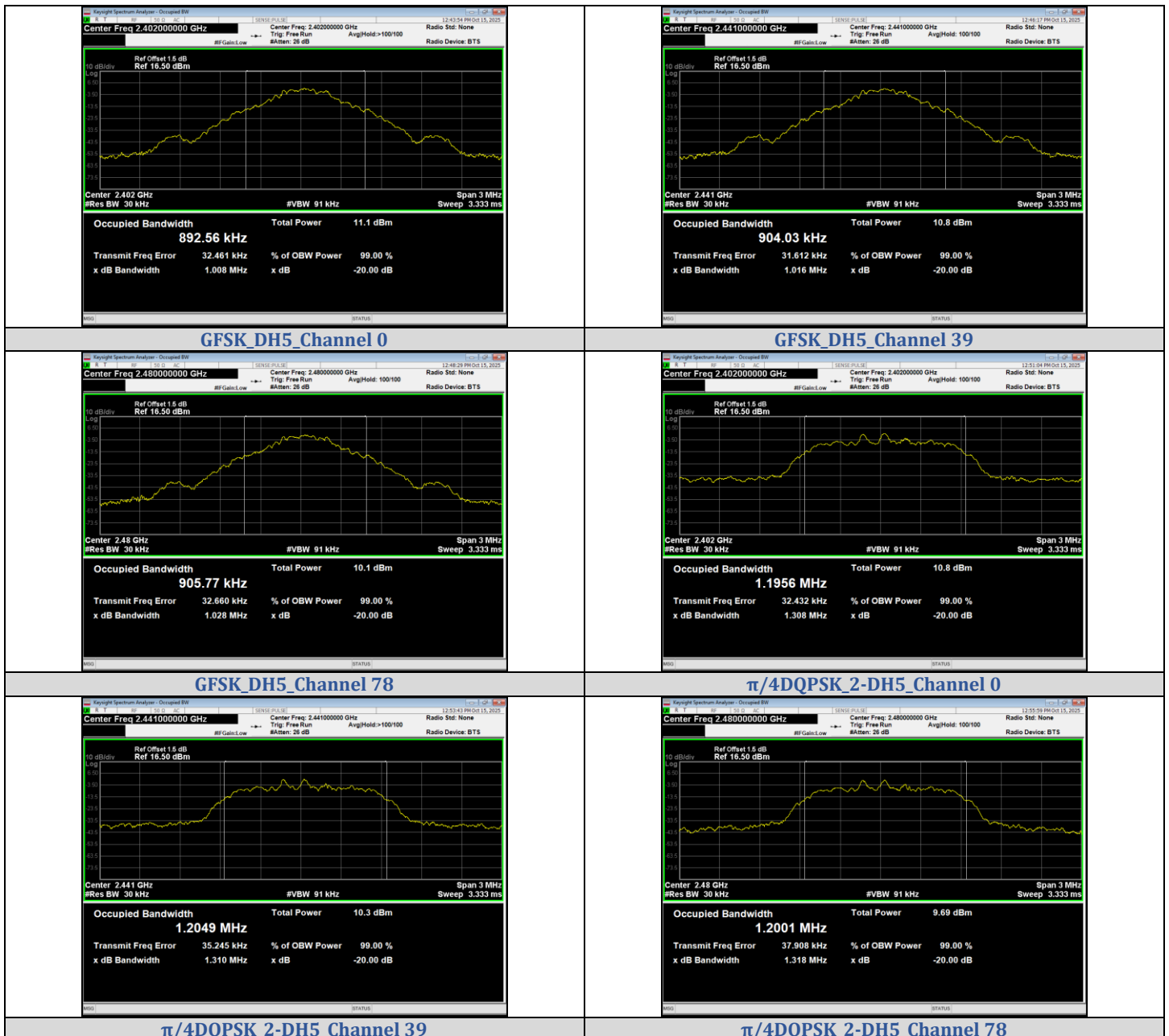
Peak Output Power
8DPSK_Channel 39

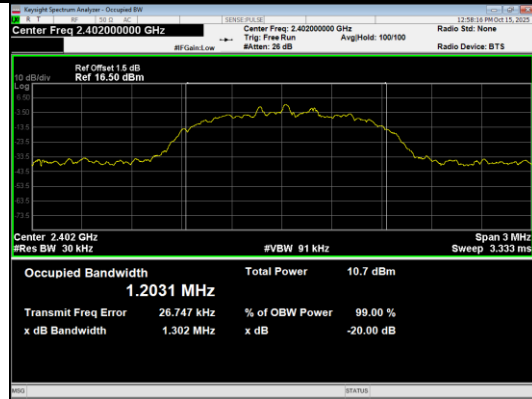


Peak Output Power
8DPSK_Channel 78

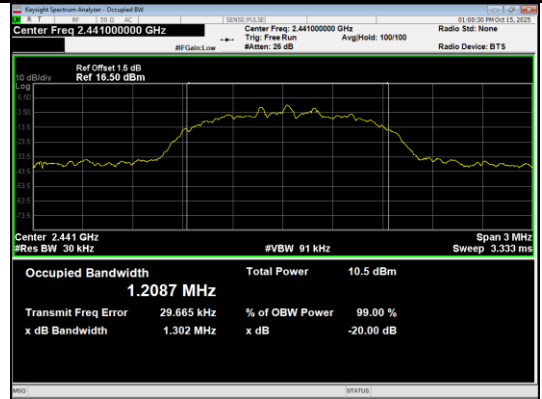
**20dB Bandwidth****Test Result**

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.010
	39	2441 MHz	1.020
	78	2480 MHz	1.030
$\pi/4$ DQPSK	0	2402 MHz	1.310
	39	2441 MHz	1.310
	78	2480 MHz	1.320
8DPSK	0	2402 MHz	1.300
	39	2441 MHz	1.300
	78	2480 MHz	1.300

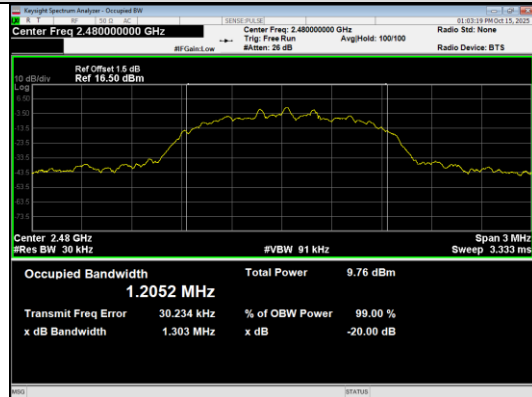
Test Graphs



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



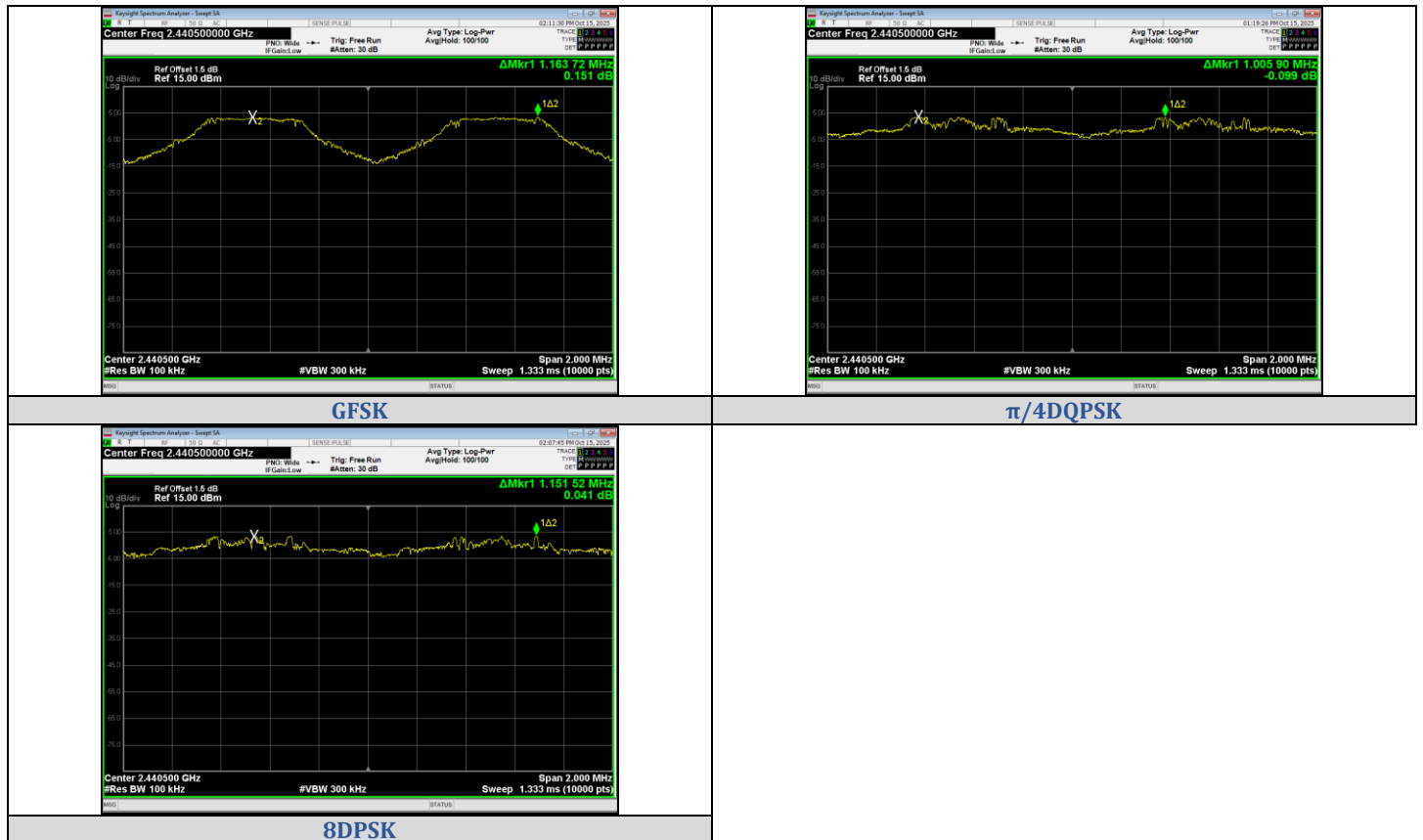
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.0293	2441.193	1.1637	0.99	PASS
$\pi/4$ DQPSK	2-DH5	2439.8728	2440.8787	1.0059	0.99	PASS
8DPSK	3-DH5	2440.0351	2441.1866	1.1515	0.99	PASS

Test Graphs

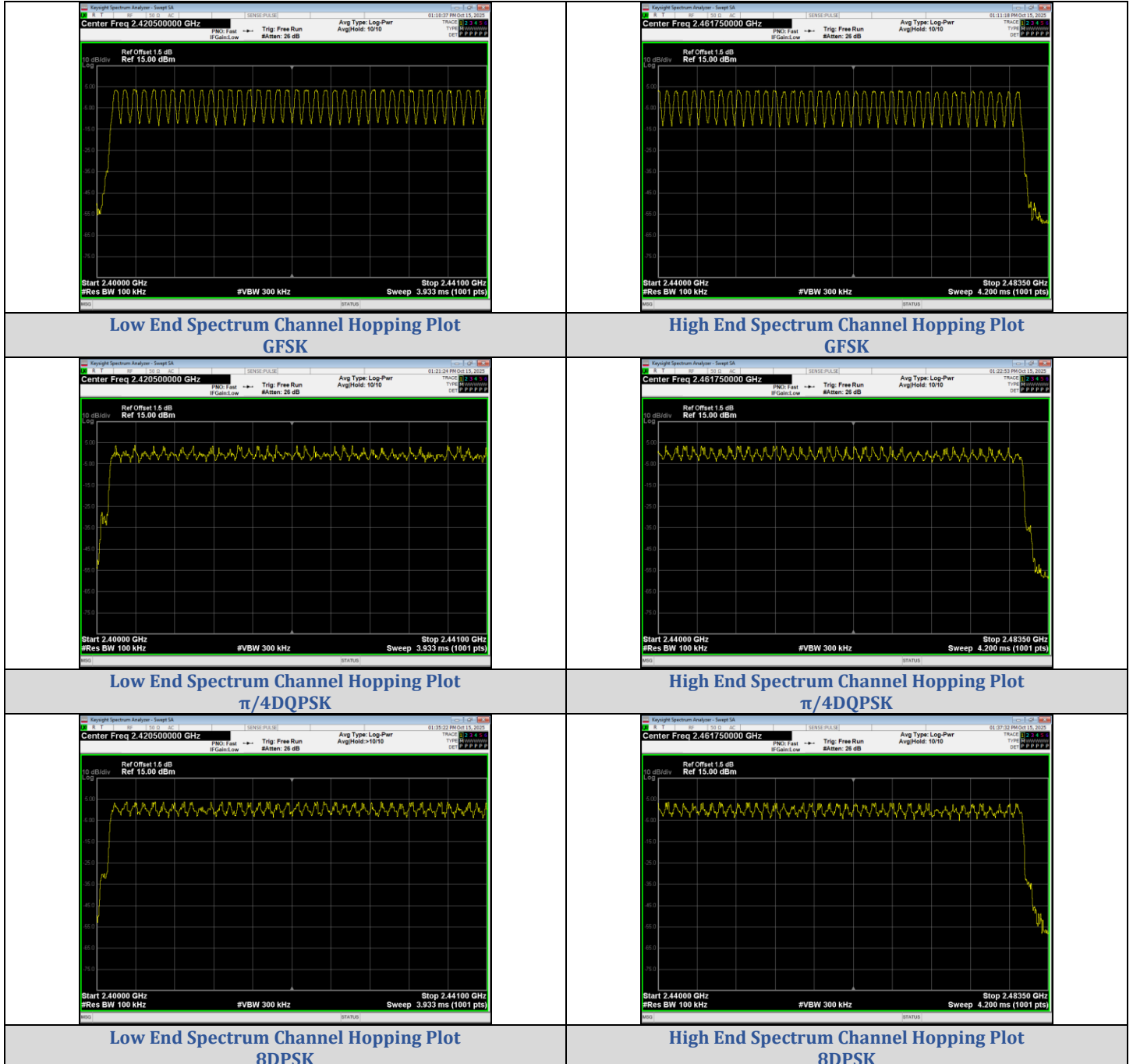


Number Of Hopping Channel

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

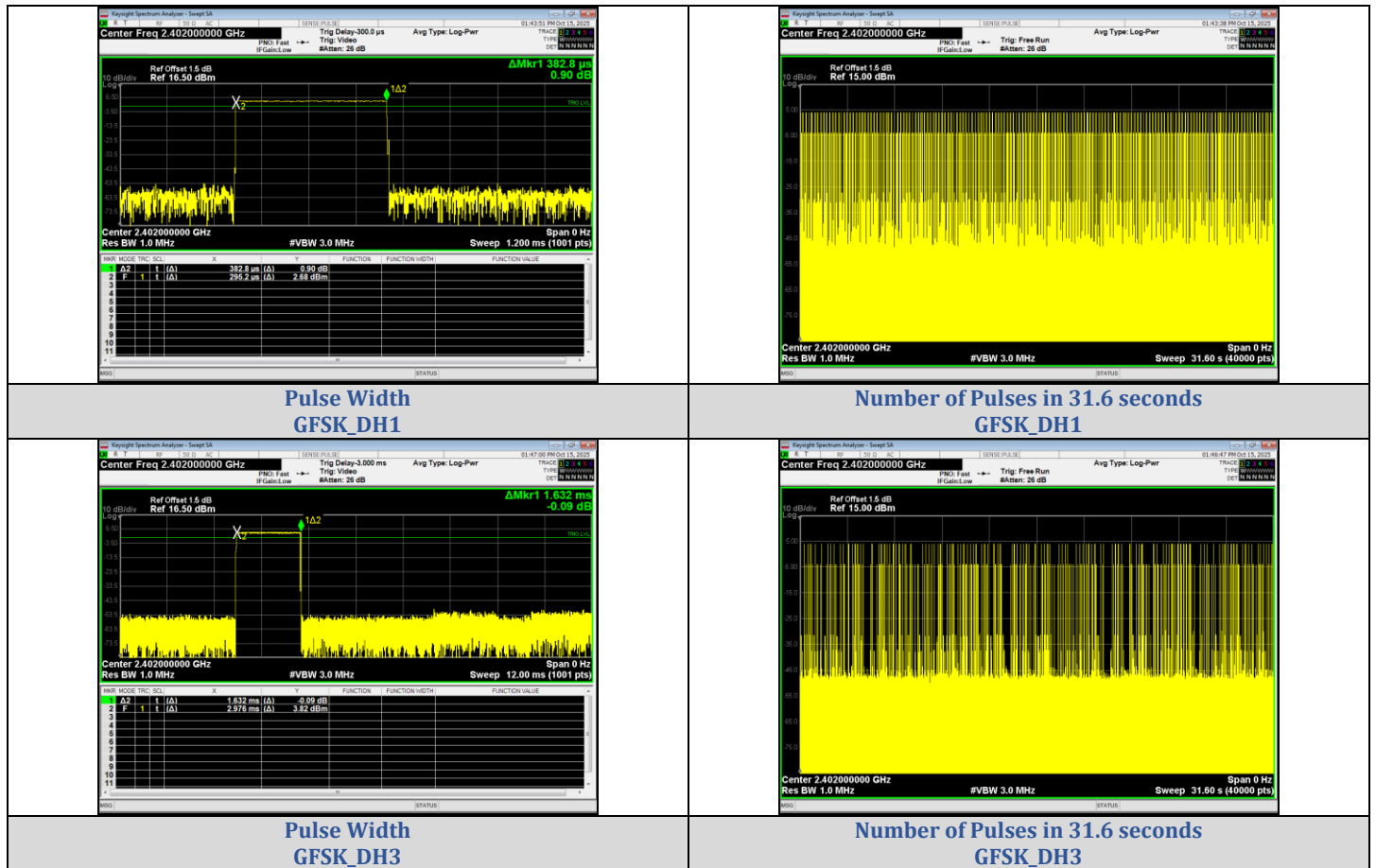


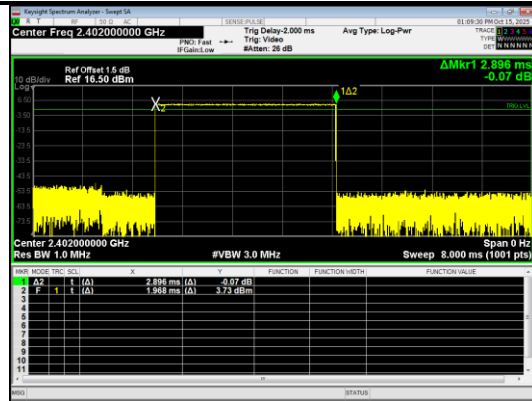
Dwell Time

Test Result

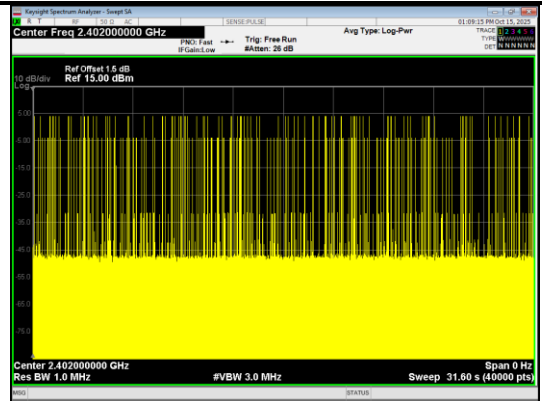
Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	Hopping	0.3828	313	119.82	< 400	PASS
	DH3		1.632	154	251.33		PASS
	DH5		2.896	100	289.6		PASS
$\pi/4$ DQPSK	2-DH1		0.3912	313	122.45		PASS
	2-DH3		1.632	158	257.86		PASS
	2-DH5		2.896	119	344.62		PASS
8DPSK	3-DH1		0.3912	315	123.23		PASS
	3-DH3		1.632	154	251.33		PASS
	3-DH5		2.896	111	321.46		PASS

Test Graphs

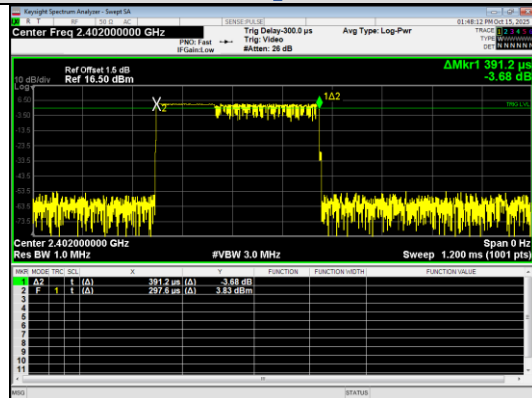




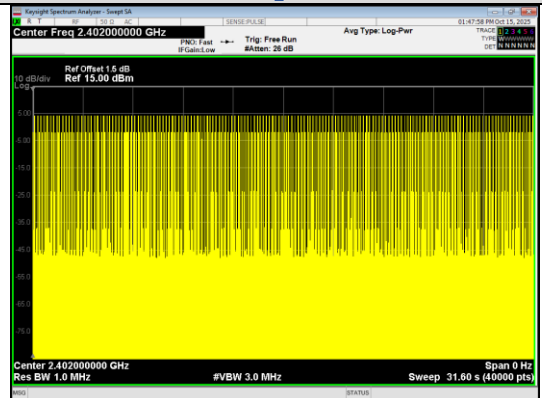
**Pulse Width
GFSK_DH5**



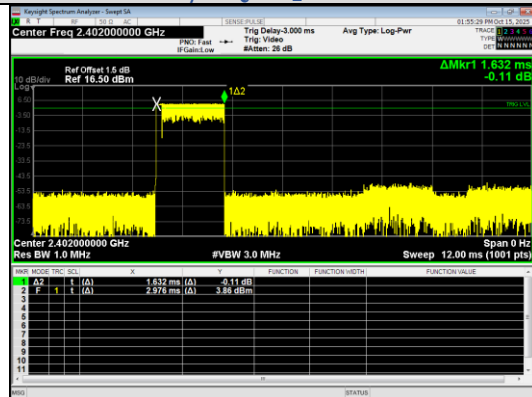
**Number of Pulses in 31.6 seconds
GFSK_DH5**



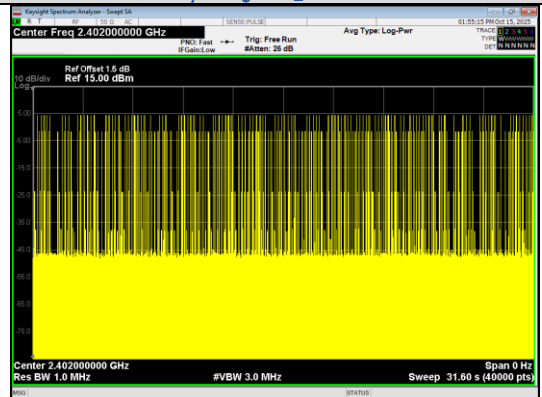
**Pulse Width
 $\pi/4$ DQPSK_2-DH1**



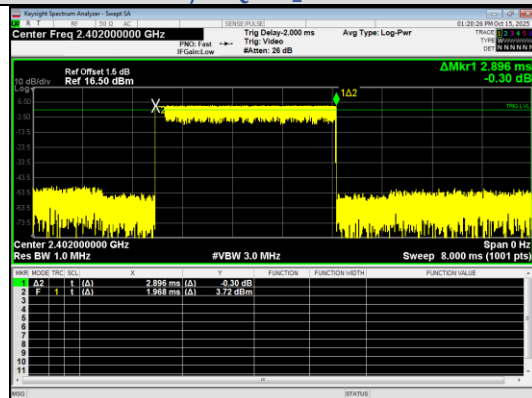
**Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH1**



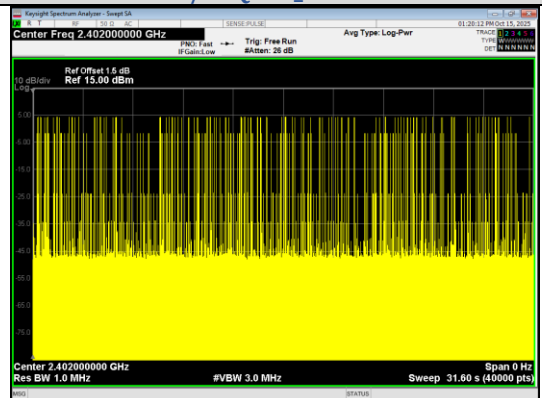
**Pulse Width
 $\pi/4$ DQPSK_2-DH3**



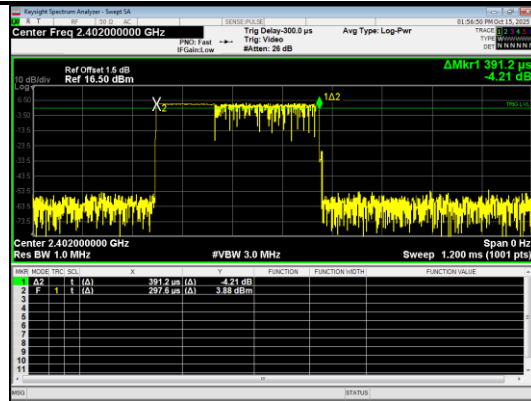
**Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH3**



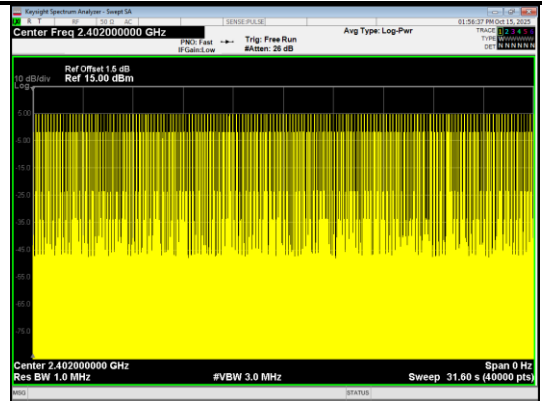
**Pulse Width
 $\pi/4$ DQPSK_2-DH5**



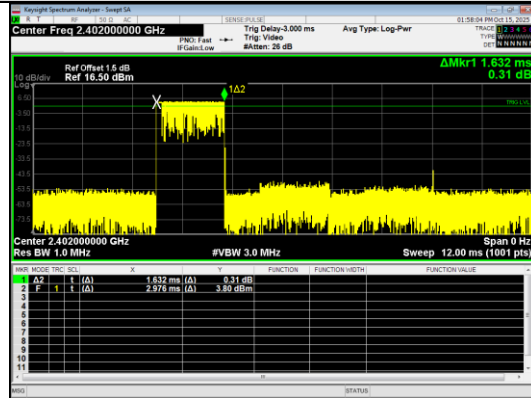
**Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5**



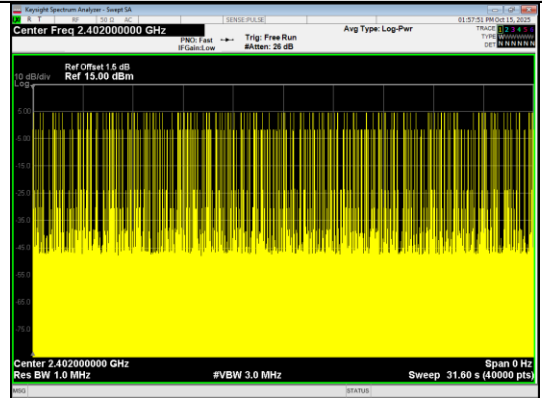
**Pulse Width
8DPSK_3-DH1**



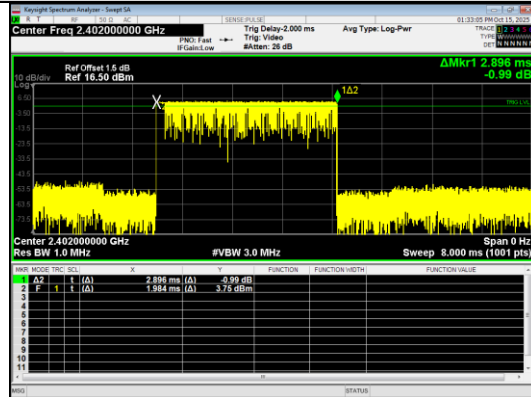
**Number of Pulses in 31.6 seconds
8DPSK_3-DH1**



**Pulse Width
8DPSK_3-DH3**



**Number of Pulses in 31.6 seconds
8DPSK_3-DH3**



**Pulse Width
8DPSK_3-DH5**



**Number of Pulses in 31.6 seconds
8DPSK_3-DH5**

Conducted Out Of Band Emission

Test Result

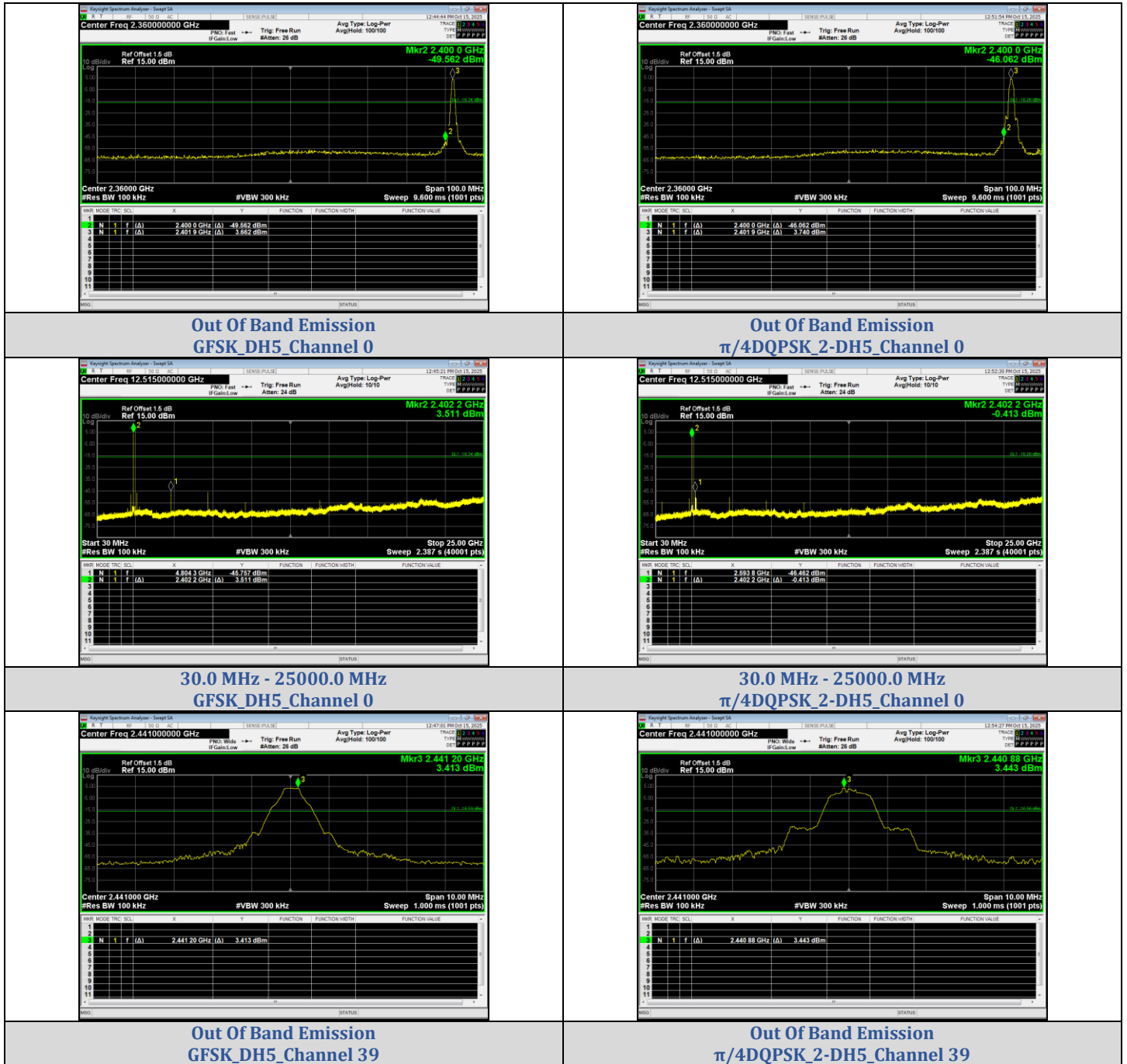
Non-Hopping

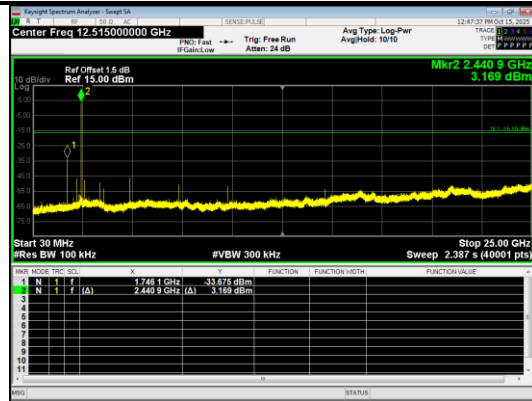
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-49.560	-16.34	-33.220	PASS
			4804.26	-45.757	-16.34	-29.417	PASS
		39	1746.06	-33.675	-16.59	-17.085	PASS
		78	1754.18	-41.561	-17.27	-24.291	PASS
			2483.50	-59.820	-17.27	-42.550	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-46.060	-16.26	-29.800	PASS
			2593.79	-46.462	-16.26	-30.202	PASS
		39	1754.18	-40.655	-16.56	-24.095	PASS
		78	1746.69	-33.338	-17.19	-16.148	PASS
			2483.50	-59.010	-17.19	-41.820	PASS
8DPSK	3-DH5	0	2400.00	-45.840	-16.22	-29.620	PASS
			4804.26	-47.702	-16.22	-31.482	PASS
		39	4882.30	-48.221	-16.71	-31.511	PASS
		78	2287.91	-45.344	-17.25	-28.094	PASS
			2483.50	-54.700	-17.25	-37.450	PASS

Hopping

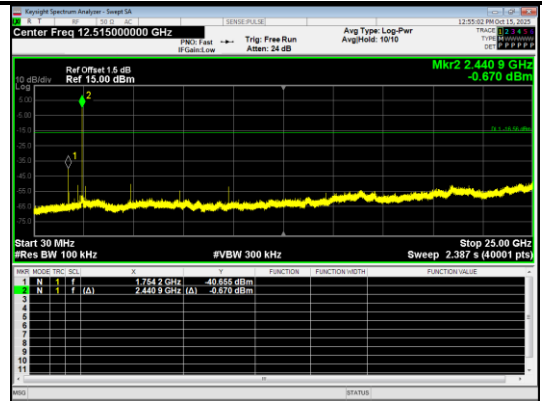
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2382.10	-52.443	-16.23	-36.213	PASS
			2400.00	-54.170	-16.23	-37.940	PASS
			2483.50	-59.080	-17.11	-41.970	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-50.080	-16.24	-33.840	PASS
			2483.50	-58.500	-17.08	-41.420	PASS
8DPSK	3-DH5		2400.00	-49.090	-16.43	-32.660	PASS
			2483.50	-58.140	-17.21	-40.930	PASS

Test Graphs

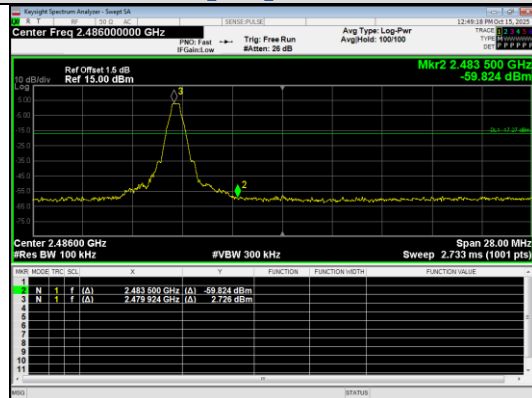




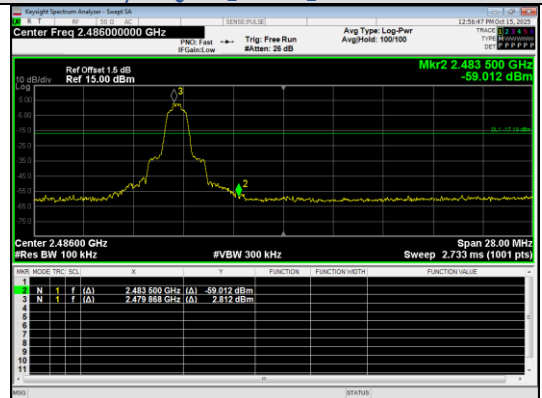
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



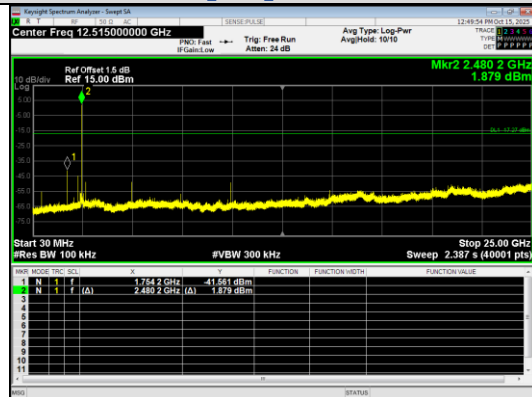
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



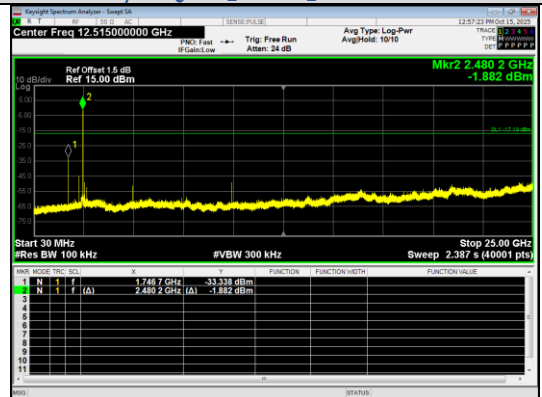
Out Of Band Emission
GFSK_DH5_Channel 78



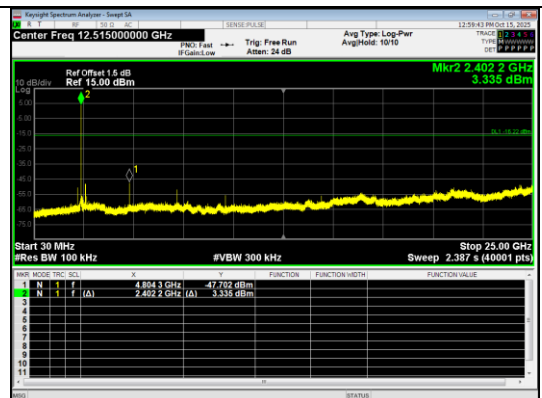
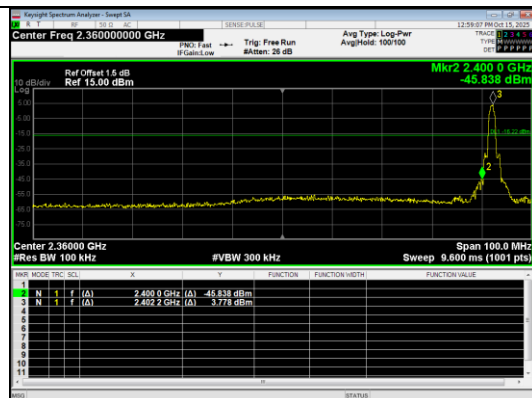
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



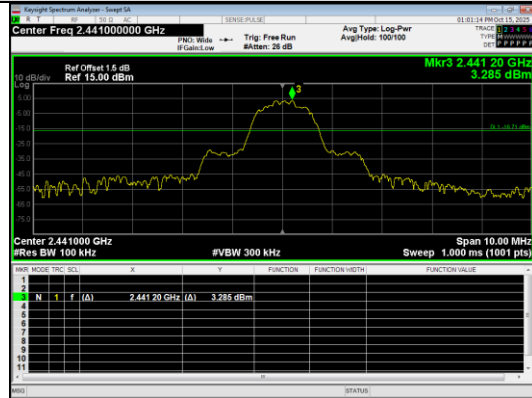
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



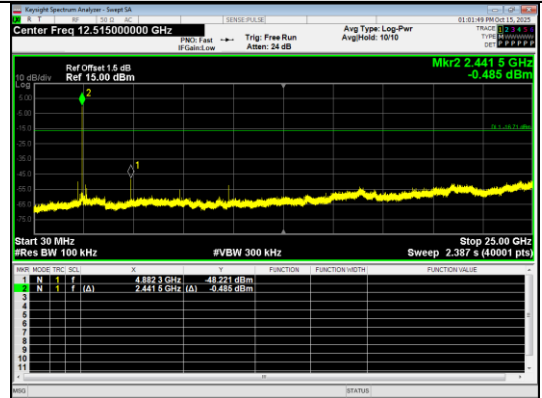
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



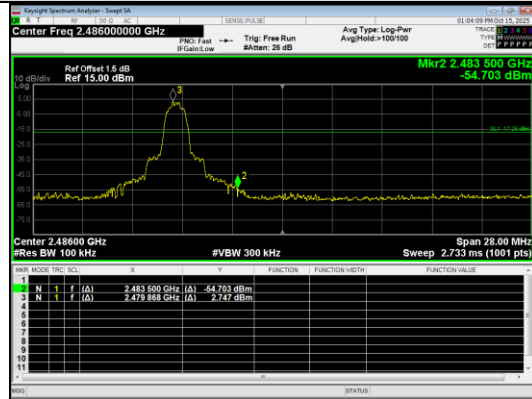
Out Of Band Emission 8DPSK_3-DH5_Channel 0



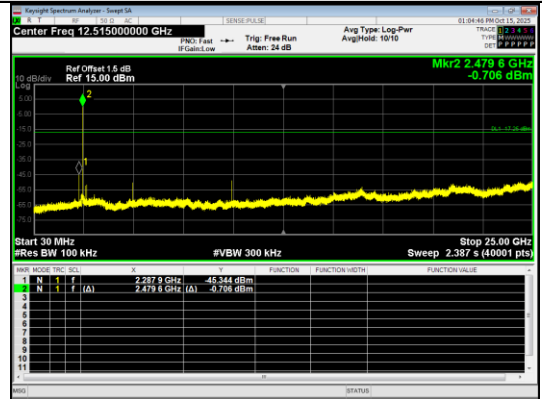
30.0 MHz - 25000.0 MHz 8DPSK_3-DH5_Channel 0



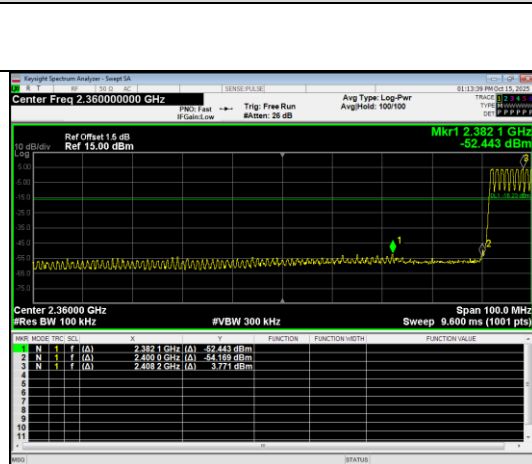
Out Of Band Emission 8DPSK_3-DH5_Channel 39



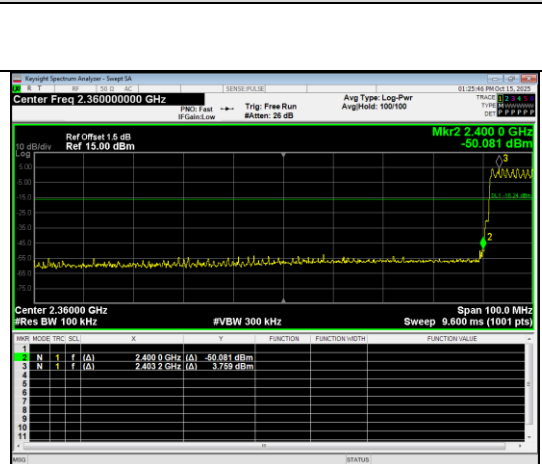
30.0 MHz - 25000.0 MHz 8DPSK_3-DH5_Channel 39



Out Of Band Emission 8DPSK_3-DH5_Channel 78

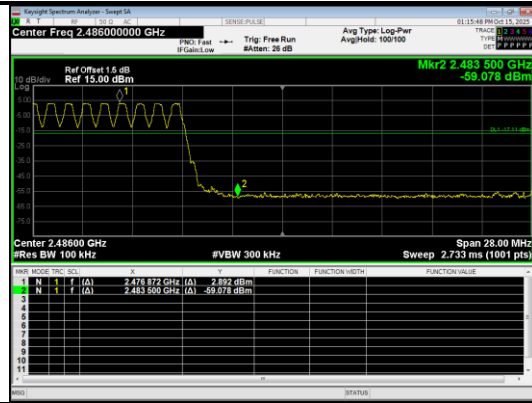


30.0 MHz - 25000.0 MHz 8DPSK_3-DH5_Channel 78

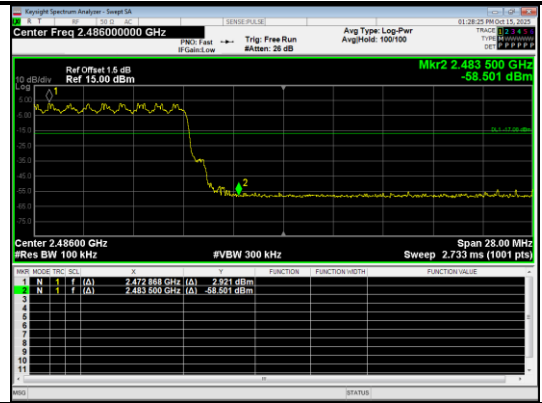


Out Of Band Emission(Left) GFSK_DH5_Channel Hopping

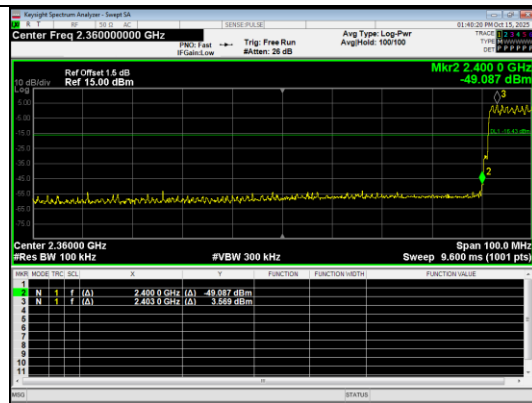
Out Of Band Emission(Left) $\pi/4$ DQPSK_2-DH5_Channel Hopping



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 *****