

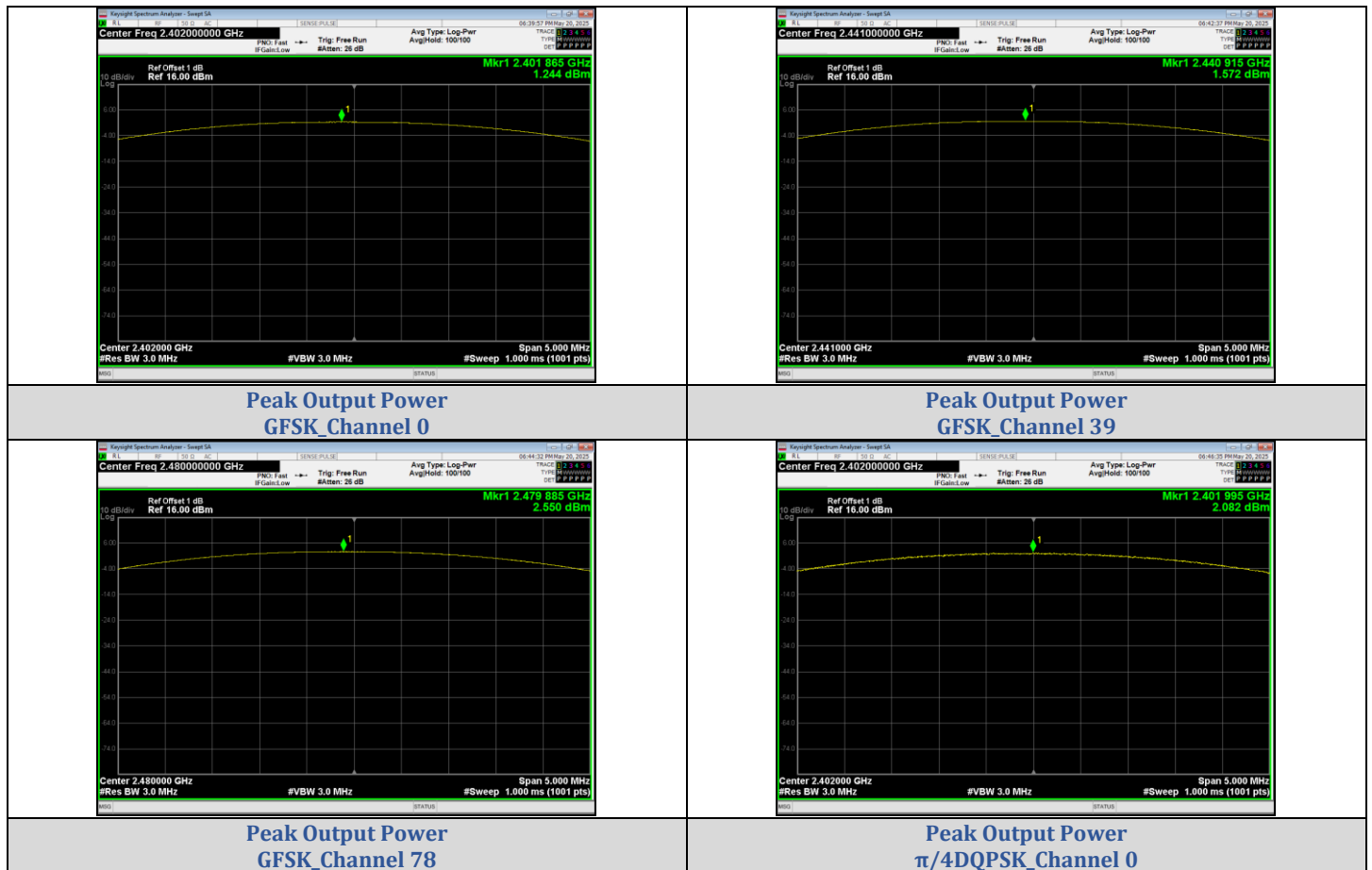


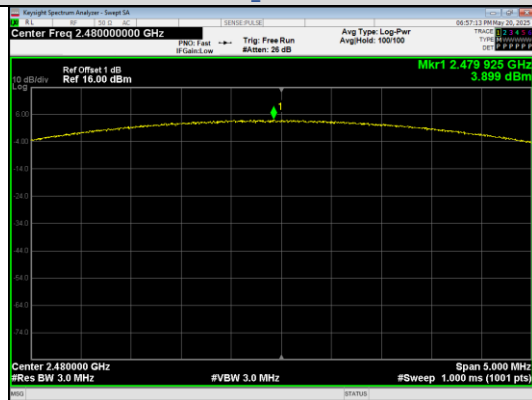
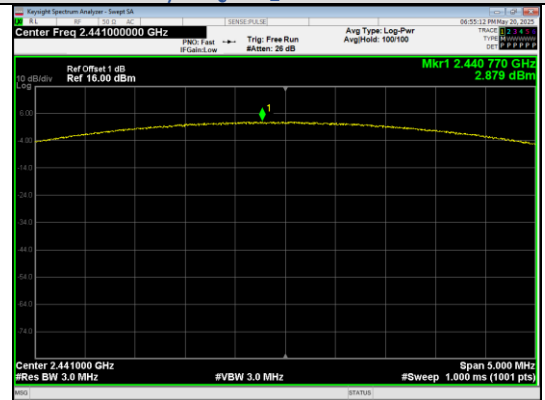
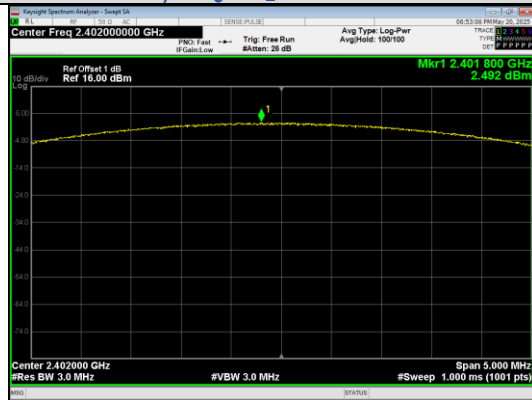
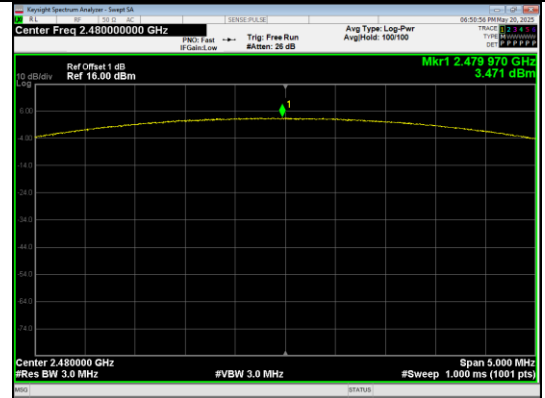
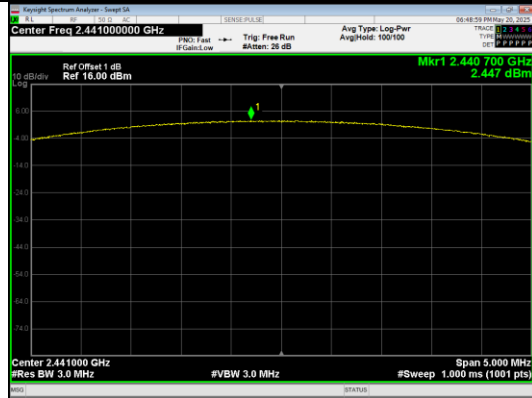
Conducted Output Power

Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	1.24	1.33	0.82	≤30	PASS
		39	1.57	1.44	1.09		PASS
		78	2.55	1.80	2.19		PASS
$\pi/4$ DQPSK	2-DH5	0	2.08	1.62	-1.13	≤20.97	PASS
		39	2.45	1.76	-0.70		PASS
		78	3.47	2.22	0.20		PASS
8DPSK	3-DH5	0	2.49	1.78	-1.14		PASS
		39	2.88	1.94	-0.81		PASS
		78	3.90	2.45	0.20		PASS

Test Graphs



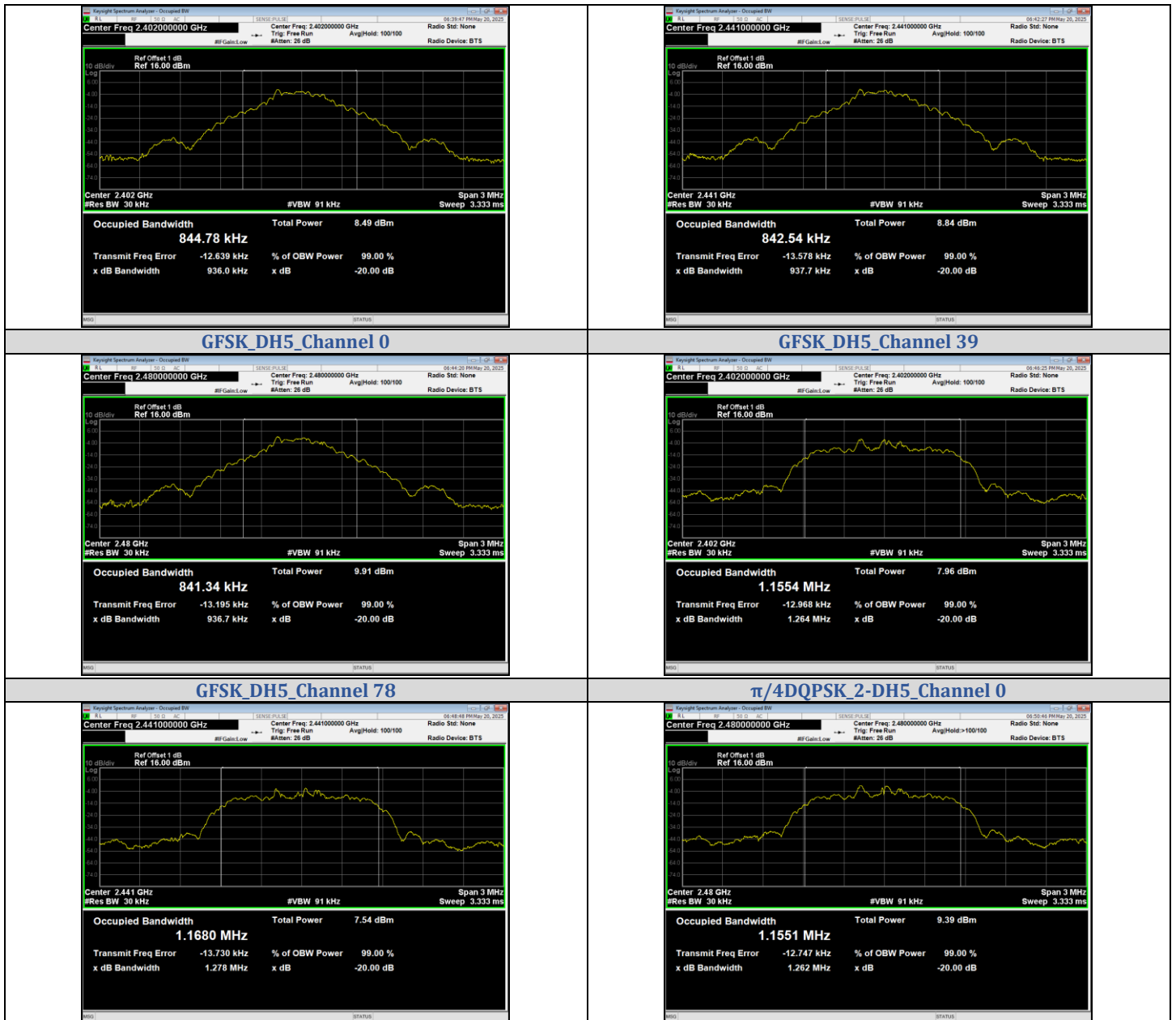


20dB Bandwidth

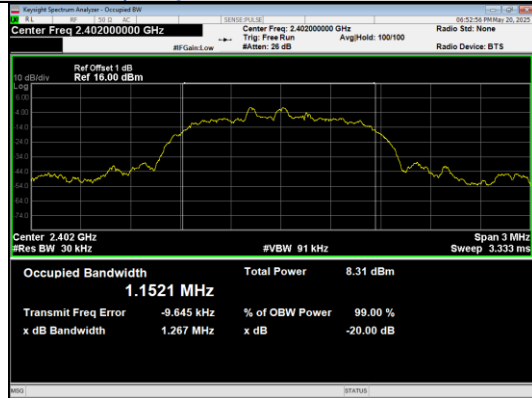
Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9360
	39	2441 MHz	0.9377
	78	2480 MHz	0.9367
$\pi/4$ DQPSK	0	2402 MHz	1.264
	39	2441 MHz	1.278
	78	2480 MHz	1.262
8DPSK	0	2402 MHz	1.267
	39	2441 MHz	1.266
	78	2480 MHz	1.252

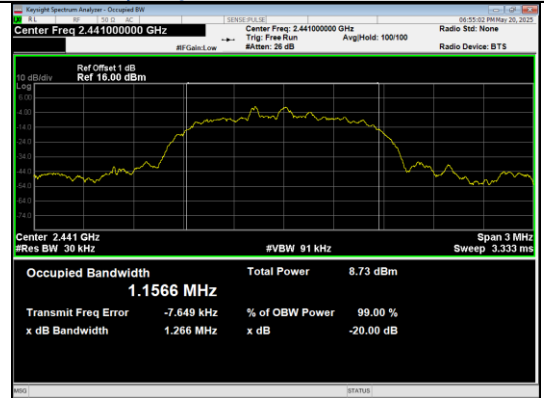
Test Graphs



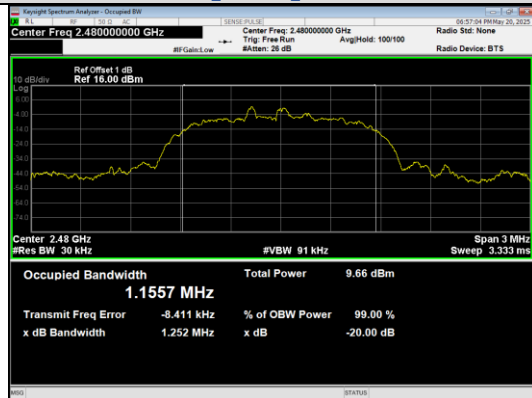
$\pi/4$ DQPSK 2-DH5_Channel 39



$\pi/4$ DQPSK 2-DH5_Channel 78



8DPSK 3-DH5_Channel 0



8DPSK 3-DH5_Channel 39

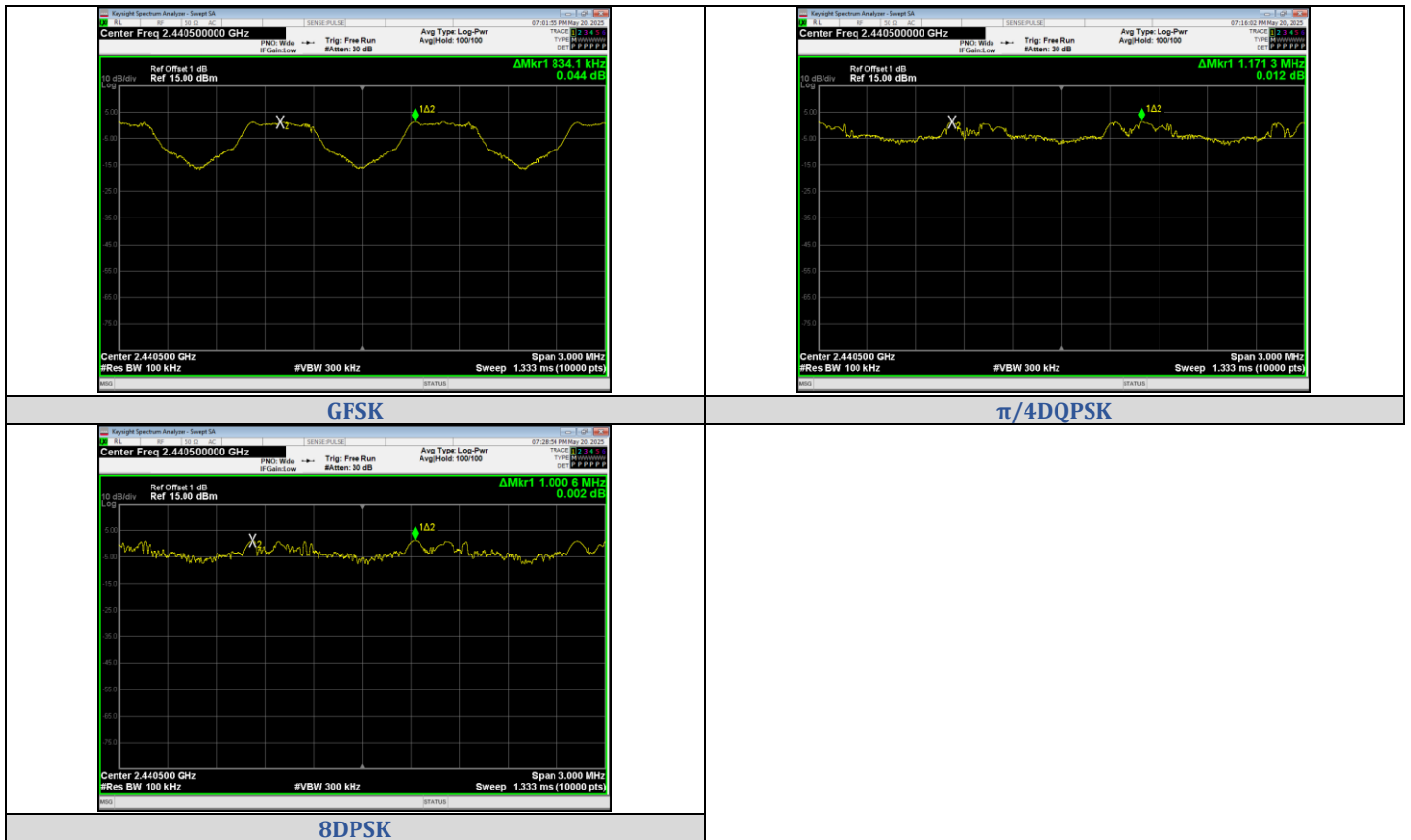
8DPSK 3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.9886	2440.8227	0.8341	0.625	PASS
$\pi/4$ DQPSK	2-DH5	2439.8212	2440.9925	1.1713	0.852	PASS
8DPSK	3-DH5	2439.8212	2440.8218	1.0006	0.845	PASS

Test Graphs



Conducted Out Of Band Emission

Test Result

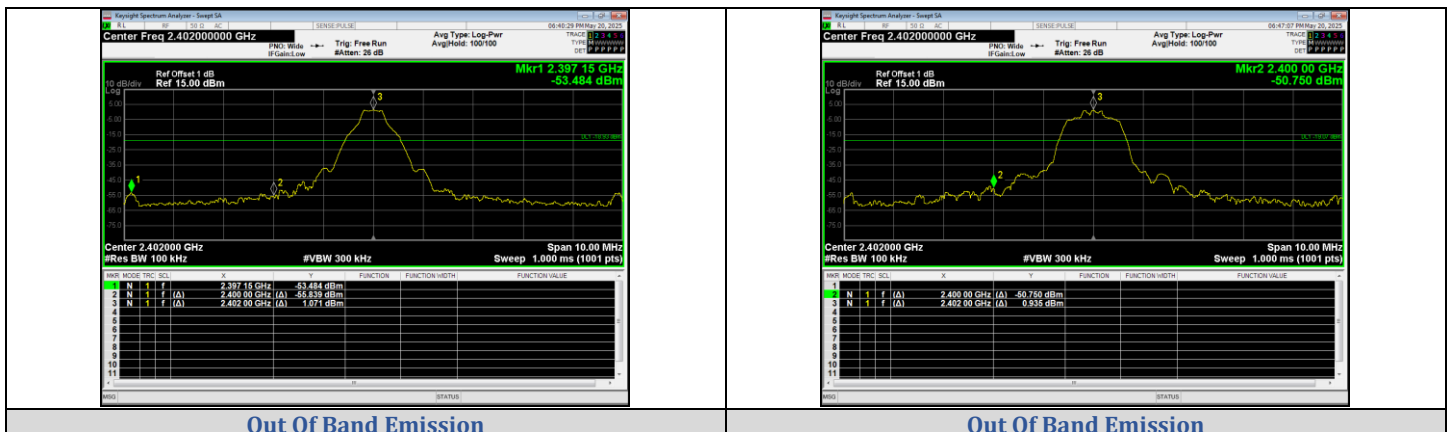
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2397.15	-53.484	-18.93	-34.554	PASS
			2400.00	-55.839	-18.93	-36.909	PASS
			4804.40	-25.836	-18.93	-6.906	PASS
		39	4882.42	-26.058	-18.73	-7.328	PASS
		78	2483.50	-57.031	-17.66	-39.371	PASS
			4959.83	-21.560	-17.66	-3.900	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-50.750	-19.07	-31.680	PASS
			4804.38	-29.320	-19.07	-10.250	PASS
			39	4882.42	-29.814	-18.66	-11.154
		78	2483.50	-58.480	-17.65	-40.830	PASS
			4960.45	-25.961	-17.65	-8.311	PASS
		8DPSK	3-DH5	0	2400.00	-52.506	-18.96
4803.76	-26.769				-18.96	-7.809	PASS
39	4881.79				-23.381	-18.62	-4.761
78	2483.50			-58.685	-17.59	-41.095	PASS
	4959.83			-21.363	-17.59	-3.773	PASS

Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2398.16	-54.070	-18.99	-35.080	PASS
			2400.00	-57.588	-18.99	-38.598	PASS
			2483.50	-60.409	-17.77	-42.639	PASS
$\pi/4$ DQPSK	2-DH5		2397.14	-54.061	-18.98	-35.081	PASS
			2400.00	-55.306	-18.98	-36.326	PASS
			2483.50	-59.312	-17.95	-41.362	PASS
8DPSK	3-DH5		2400.00	-54.777	-19.1	-35.677	PASS
			2483.50	-61.292	-17.75	-43.542	PASS

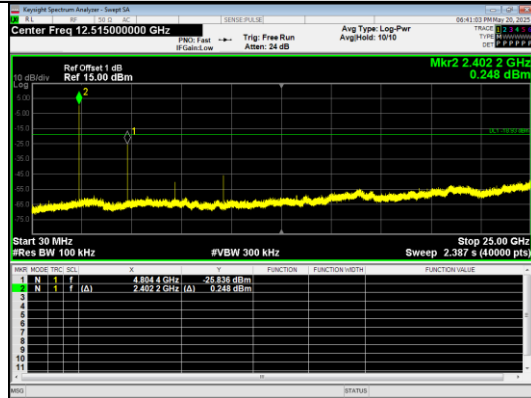
Test Graphs



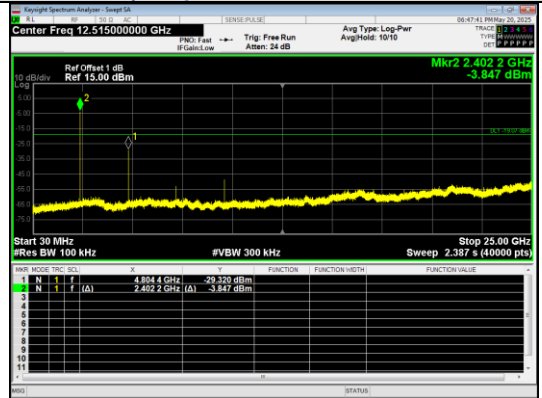
Out Of Band Emission

Out Of Band Emission

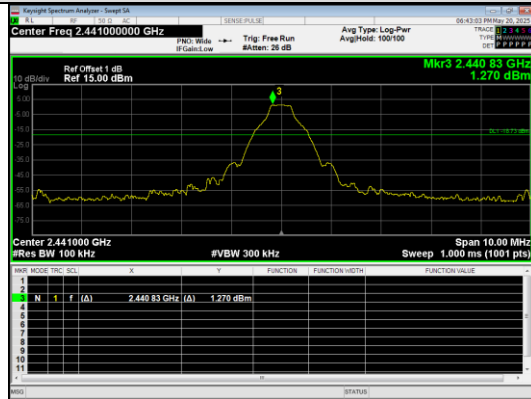
GFSK_DH5_Channel 0



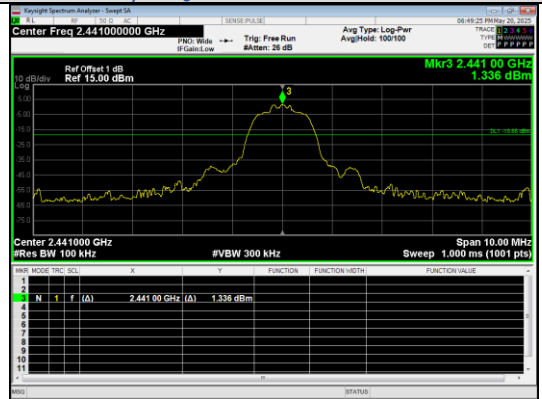
$\pi/4$ DQPSK_2-DH5_Channel 0



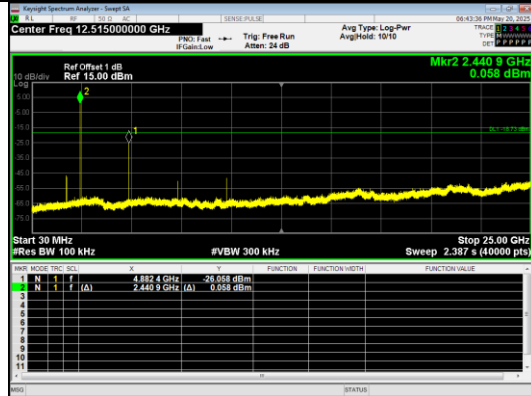
30.0 MHz - 25000.0 MHz GFSK_DH5_Channel 0



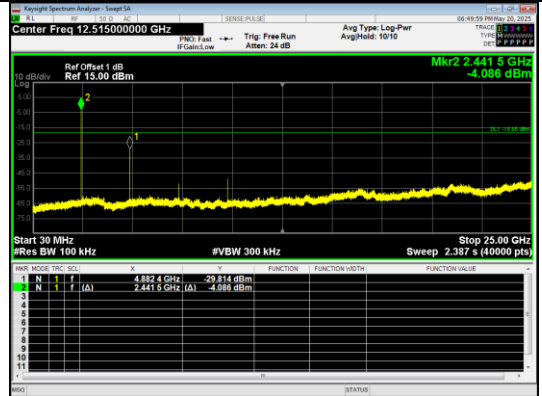
30.0 MHz - 25000.0 MHz $\pi/4$ DQPSK_2-DH5_Channel 0



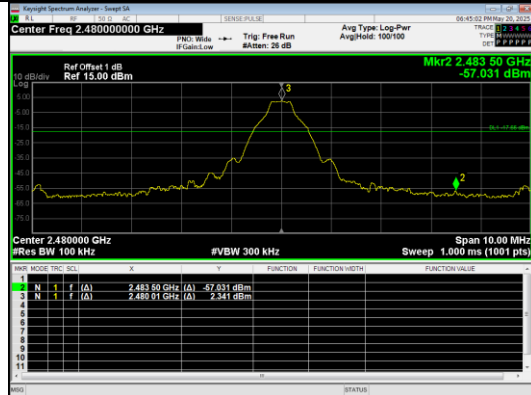
Out Of Band Emission GFSK_DH5_Channel 39



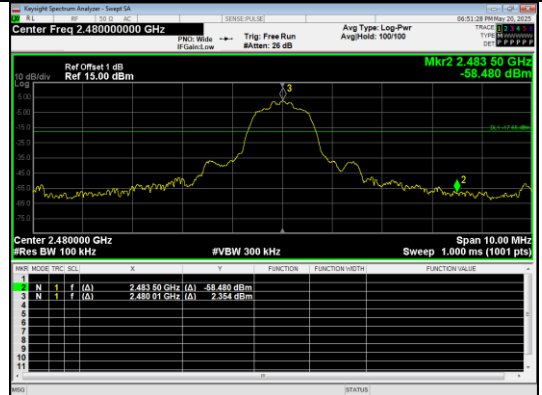
Out Of Band Emission $\pi/4$ DQPSK_2-DH5_Channel 39



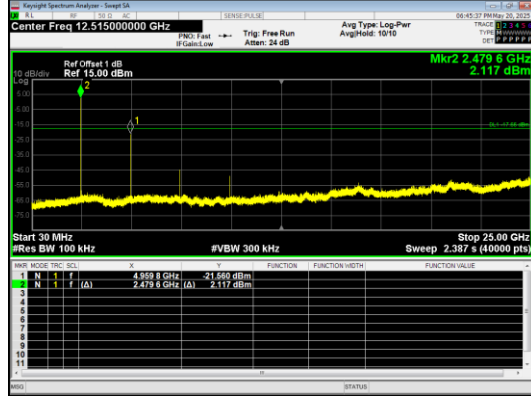
30.0 MHz - 25000.0 MHz GFSK_DH5_Channel 39



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

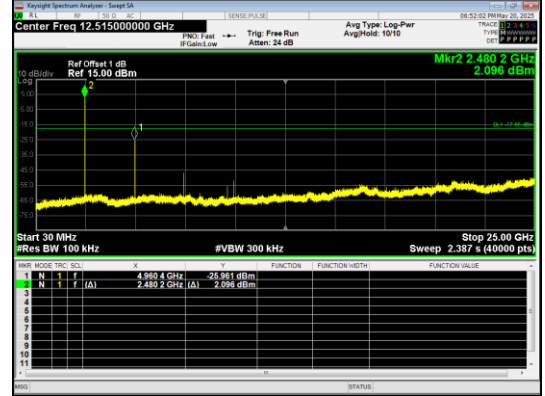


Out Of Band Emission GFSK_DH5_Channel 78

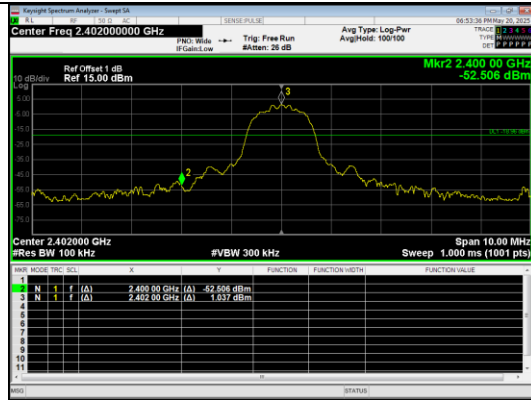


30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78

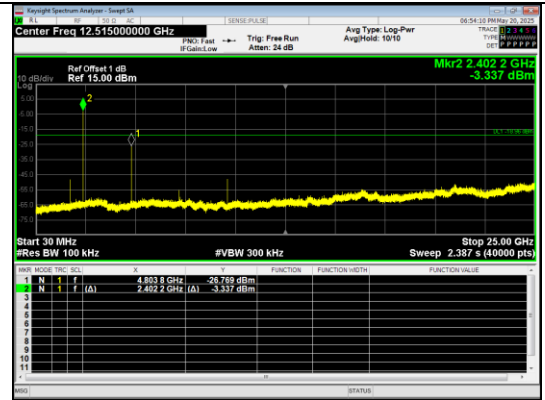
Out Of Band Emission $\pi/4$ DQPSK_2-DH5_Channel 78



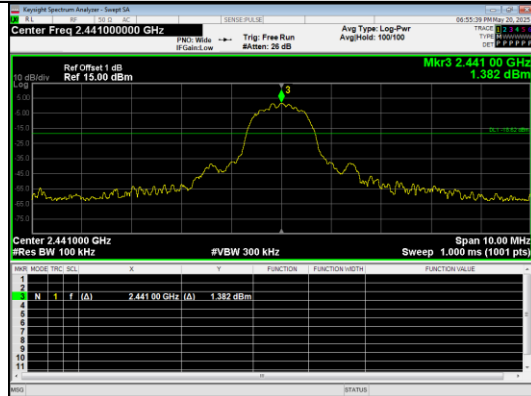
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



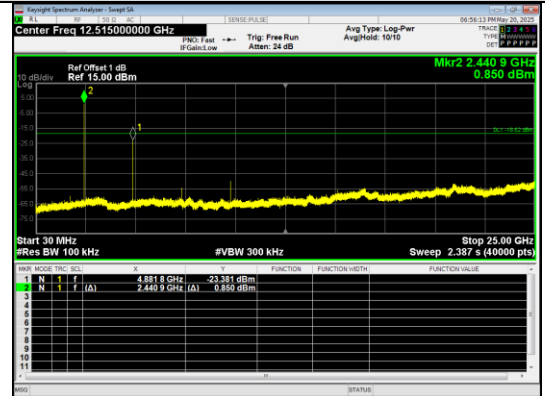
Out Of Band Emission
8DPSK_3-DH5_Channel 0



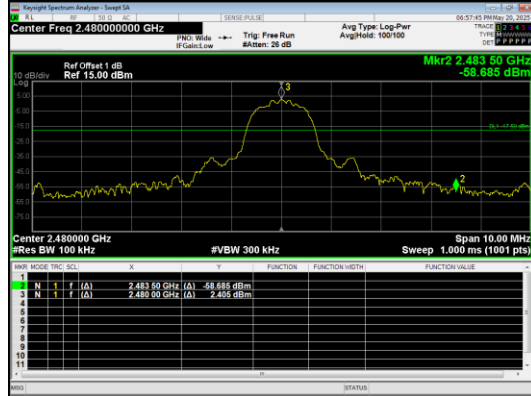
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



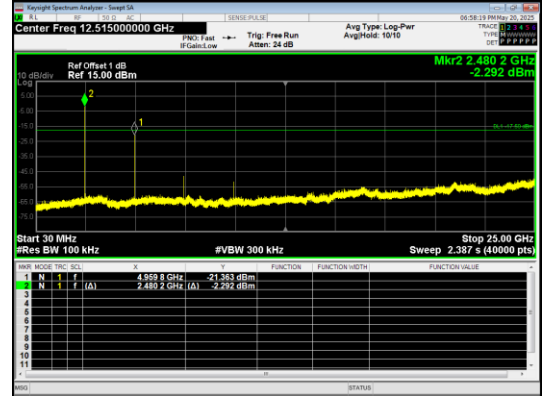
Out Of Band Emission
8DPSK_3-DH5_Channel 39



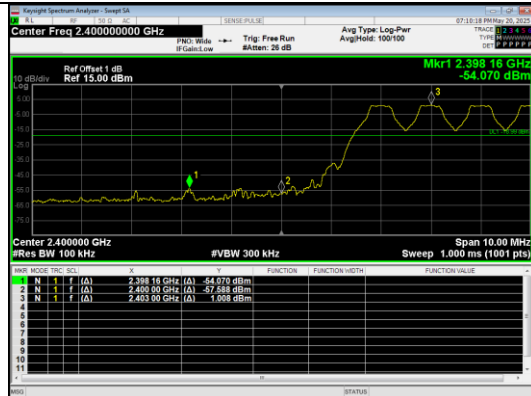
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



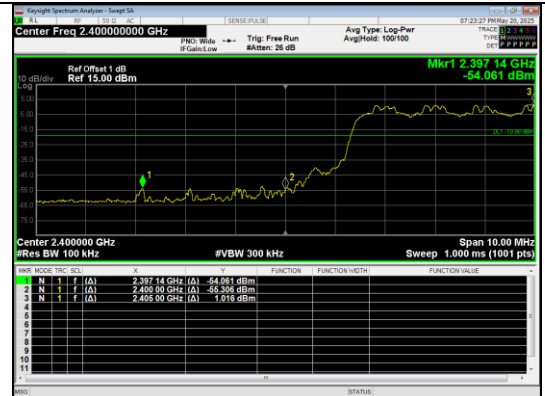
Out Of Band Emission
8DPSK_3-DH5_Channel 78



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



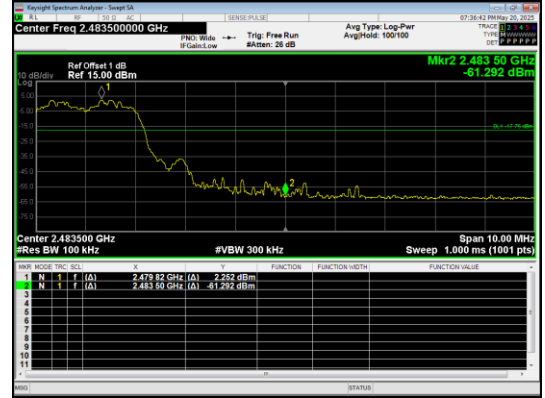
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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

Duty Cycle

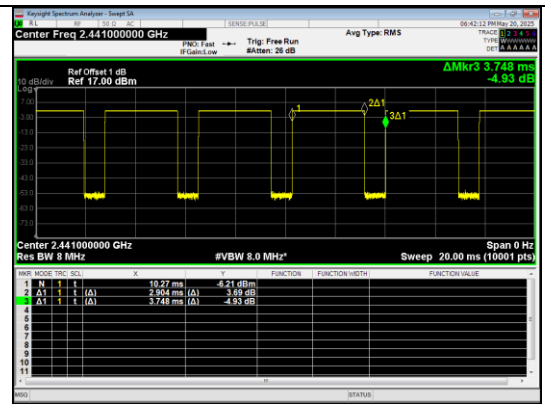
Test Result

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	2.904	3.748	77.48	0.7748	1.1081	0.3444
		78	2.904	3.748	77.48	0.7748	1.1081	0.3444
$\pi/4$ DQPSK	2-DH5	0	2.910	3.748	77.64	0.7764	1.0991	0.3436
		39	2.910	3.748	77.64	0.7764	1.0991	0.3436
		78	2.908	3.748	77.59	0.7759	1.1019	0.3439
8DPSK	3-DH5	0	2.914	3.748	77.75	0.7775	1.093	0.3432
		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

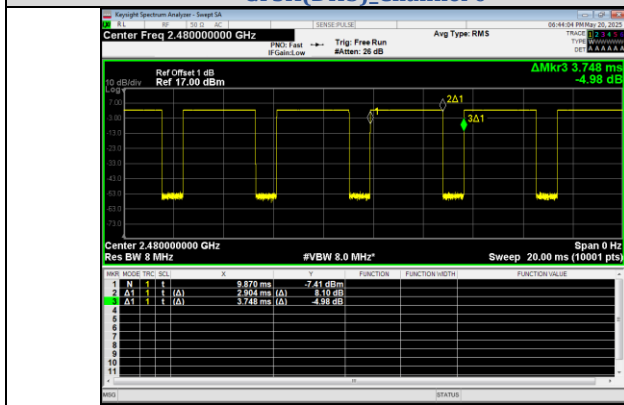
Test Graphs



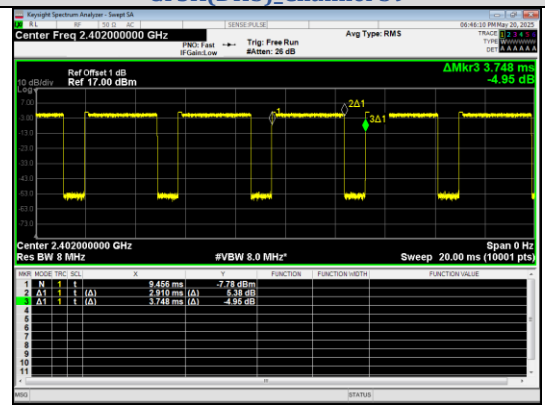
GFSK(DH5)_Channel 0



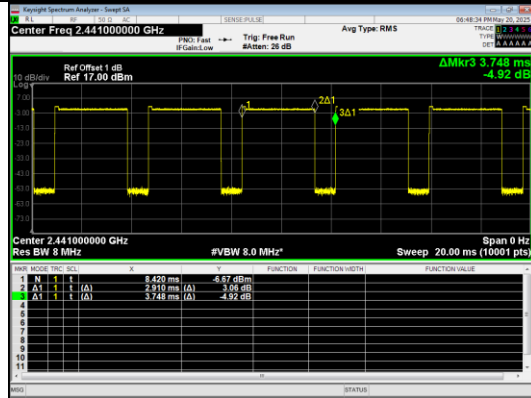
GFSK(DH5)_Channel 39



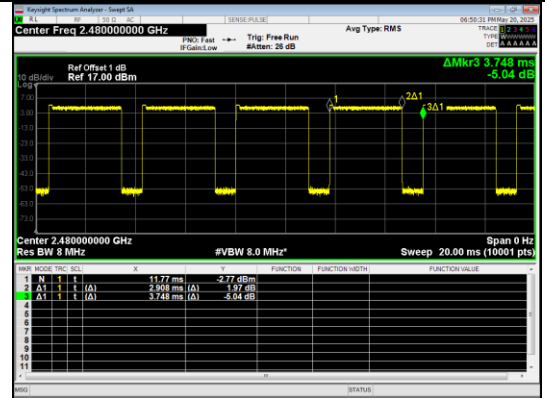
GFSK(DH5)_Channel 78



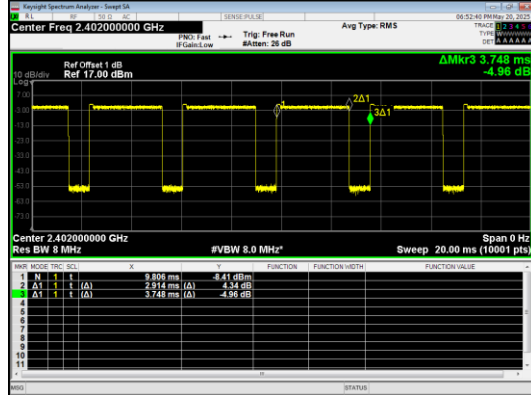
$\pi/4$ DQPSK(2-DH5)_Channel 0



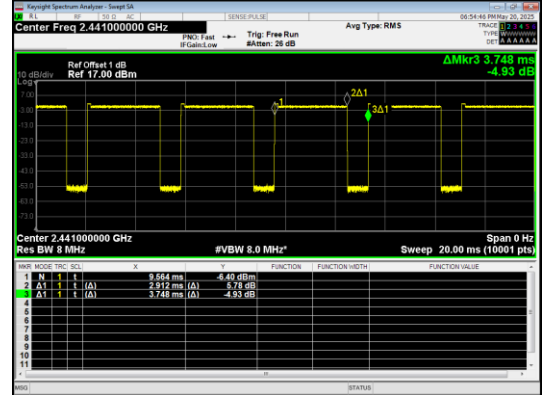
$\pi/4$ DQPSK(2-DH5)_Channel 39



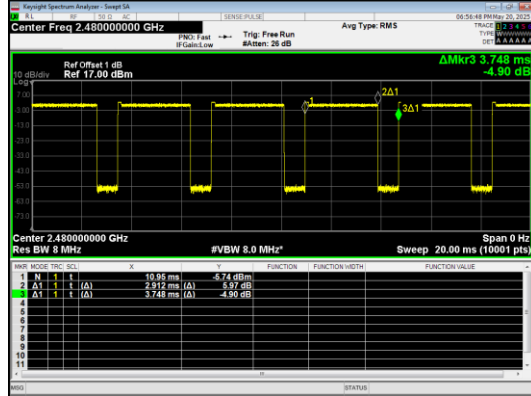
$\pi/4$ DQPSK(2-DH5)_Channel 78



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39



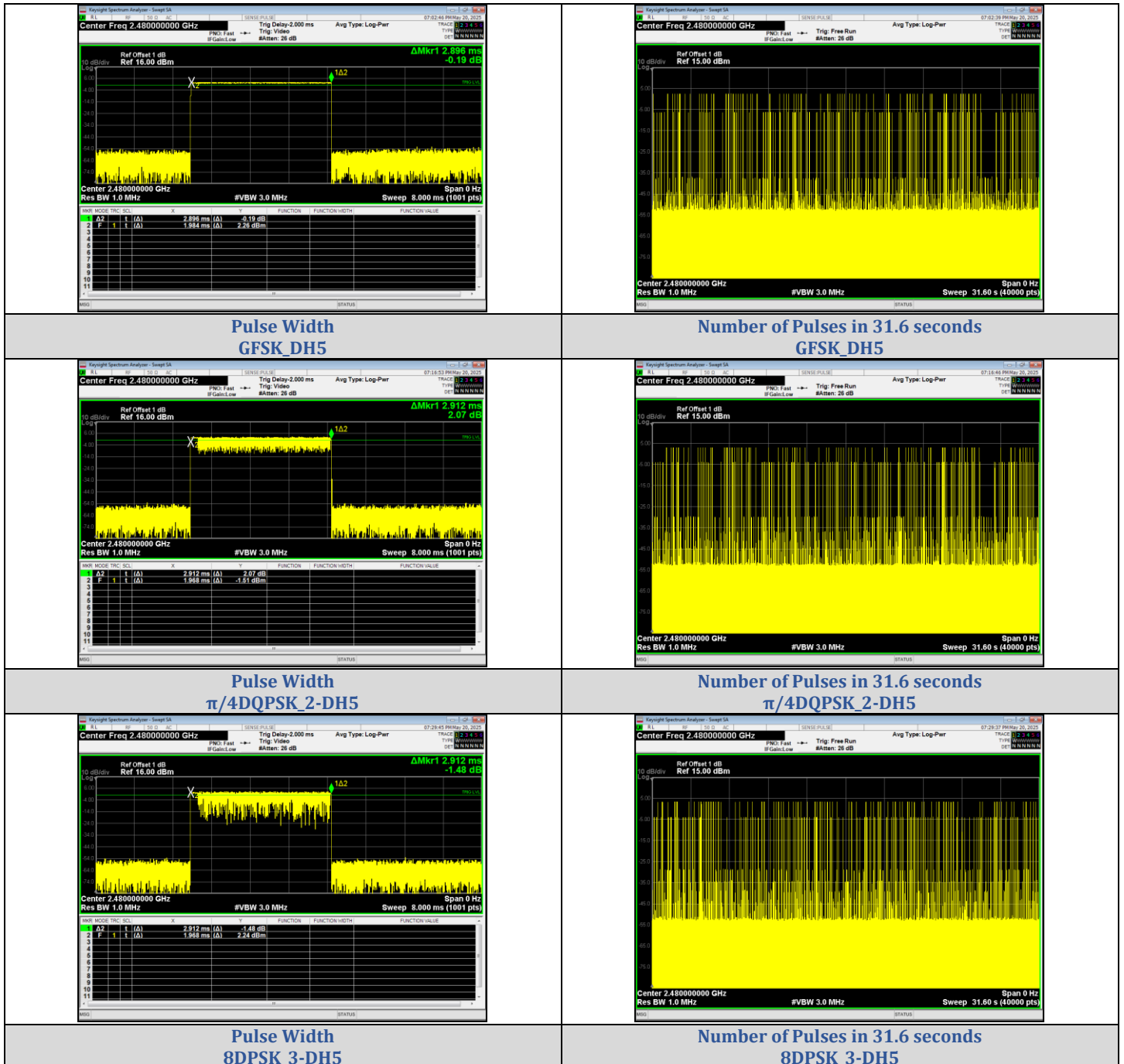
8DPSK(3-DH5)_Channel 78

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)	2.896	96	278.02	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.912	95	276.64		PASS
8DPSK	3-DH5		2.912	112	326.14		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

