

Duty Cycle

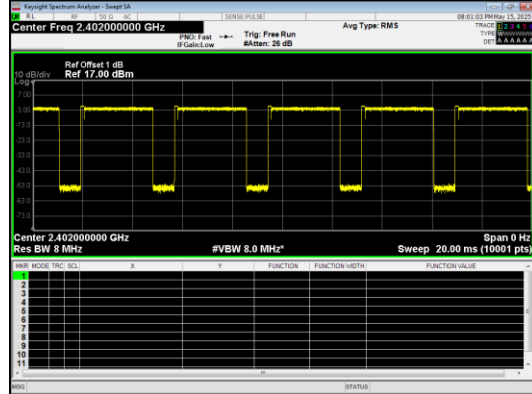
Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	0.170	3.748	4.54	0.0454	13.4294	5.8824
		39	2.880	3.748	76.84	0.7684	1.1441	0.3472
		78	2.882	3.748	76.89	0.7689	1.1413	0.3470
$\pi/4$ DQPSK	2-DH5	0	2.884	3.748	76.95	0.7695	1.1379	0.3467
		39	2.884	3.748	76.95	0.7695	1.1379	0.3467
		78	2.884	3.748	76.95	0.7695	1.1379	0.3467
8DPSK	3-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

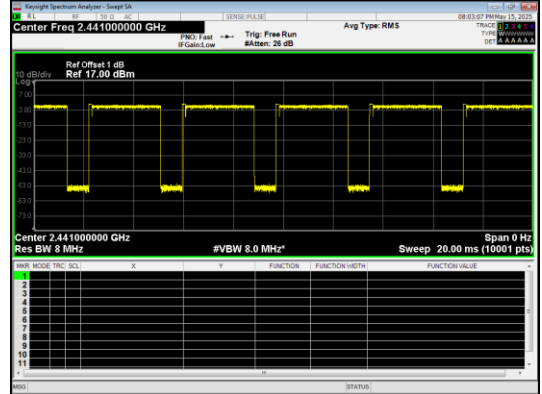
Test Graphs



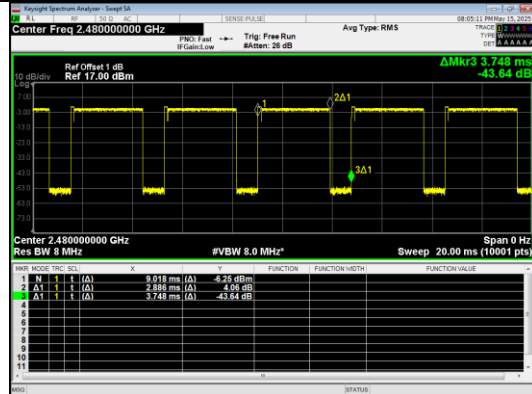
$\pi/4$ DQPSK(2-DH5)_Channel 39



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



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39

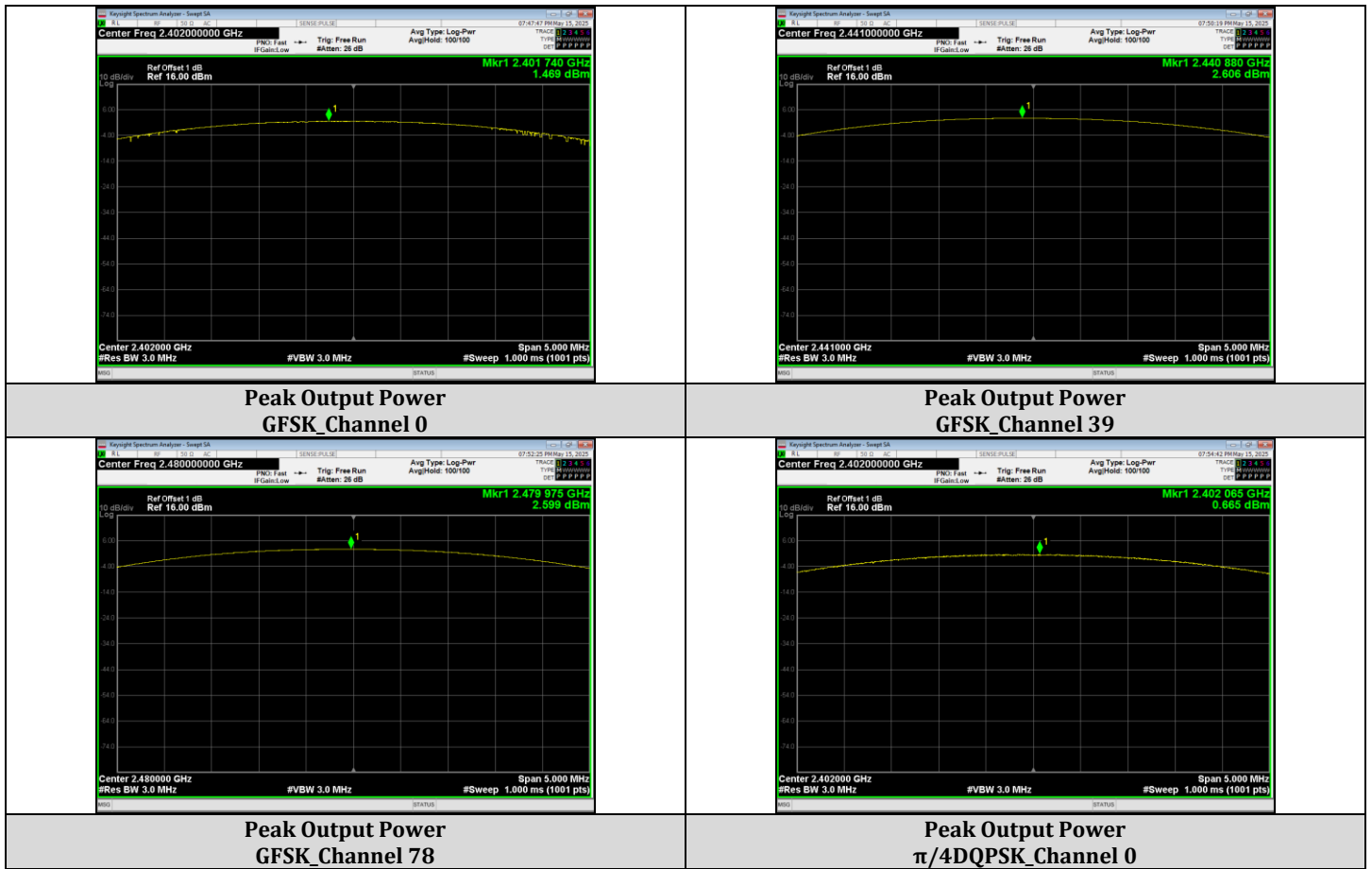
8DPSK(3-DH5)_Channel 78

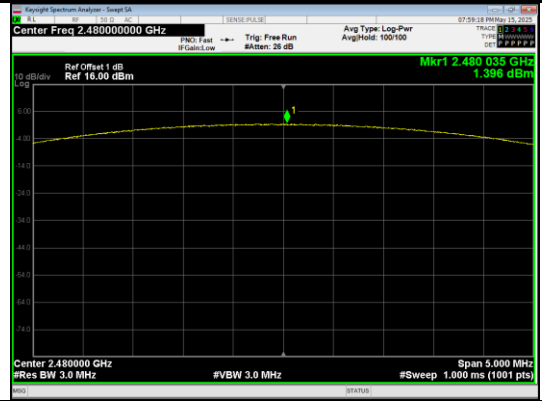
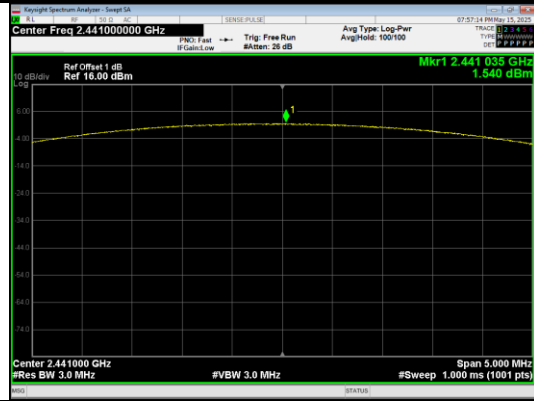
Conducted Output Power

Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	DH5	0	1.47	1.40	≤30	PASS
		39	2.61	1.82		PASS
		78	2.60	1.82		PASS
$\pi/4$ DQPSK	2-DH5	0	0.67	1.17	≤20.97	PASS
		39	1.54	1.43		PASS
		78	1.40	1.38		PASS
8DPSK	3-DH5	0	0.44	1.11		PASS
		39	2.03	1.60		PASS
		78	1.63	1.45		PASS

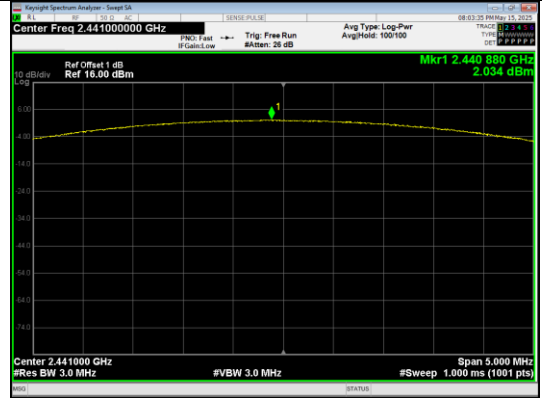
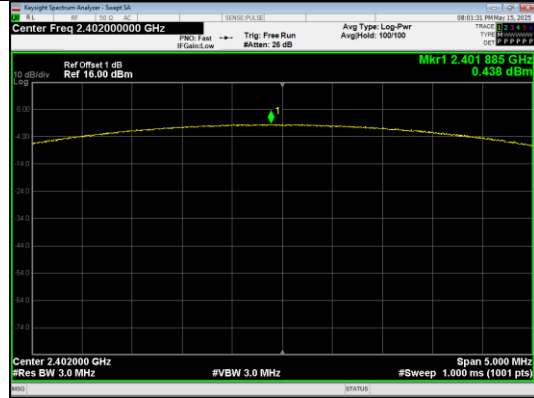
Test Graphs





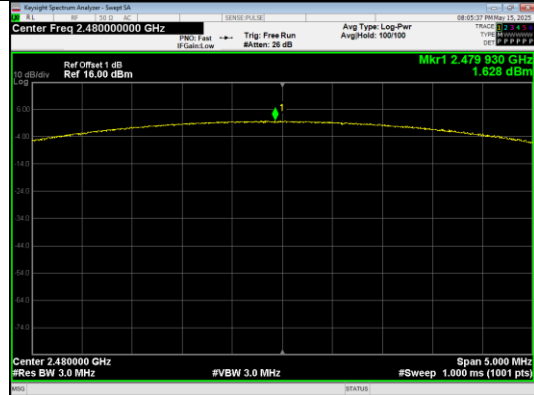
Peak Output Power
 $\pi/4$ DQPSK_Channel 39

Peak Output Power
 $\pi/4$ DQPSK_Channel 78

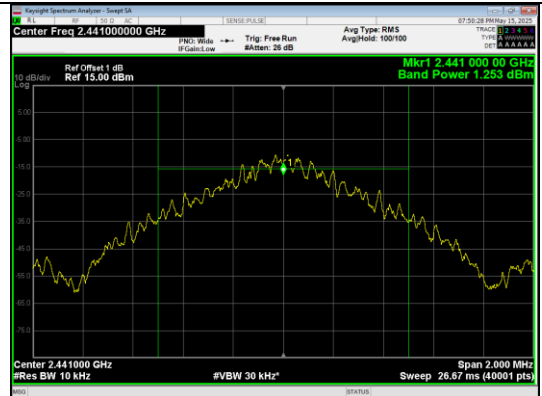


Peak Output Power
8DPSK_Channel 0

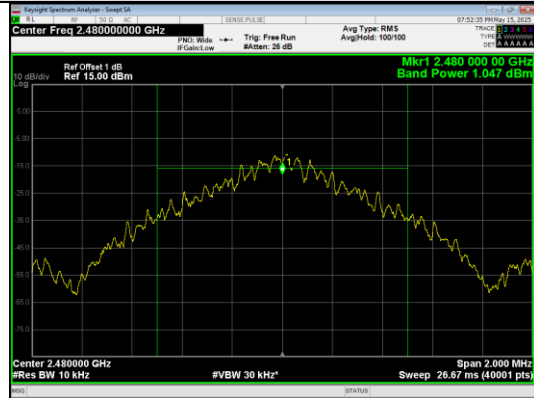
Peak Output Power
8DPSK_Channel 39



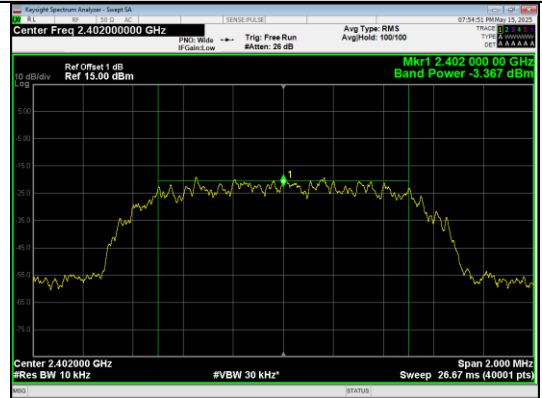
Peak Output Power
8DPSK_Channel 78



Average Output Power GFSK_Channel 0



Average Output Power GFSK_Channel 39



Average Output Power GFSK_Channel 78



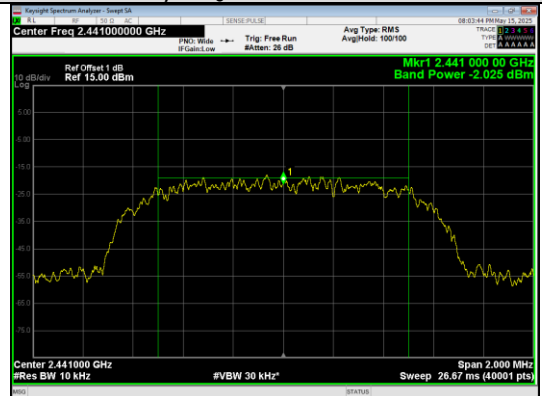
Average Output Power $\pi/4$ QPSK_Channel 0



Average Output Power $\pi/4$ QPSK_Channel 39



Average Output Power $\pi/4$ QPSK_Channel 78



Average Output Power 8DPSK_Channel 0



Average Output Power 8DPSK_Channel 39



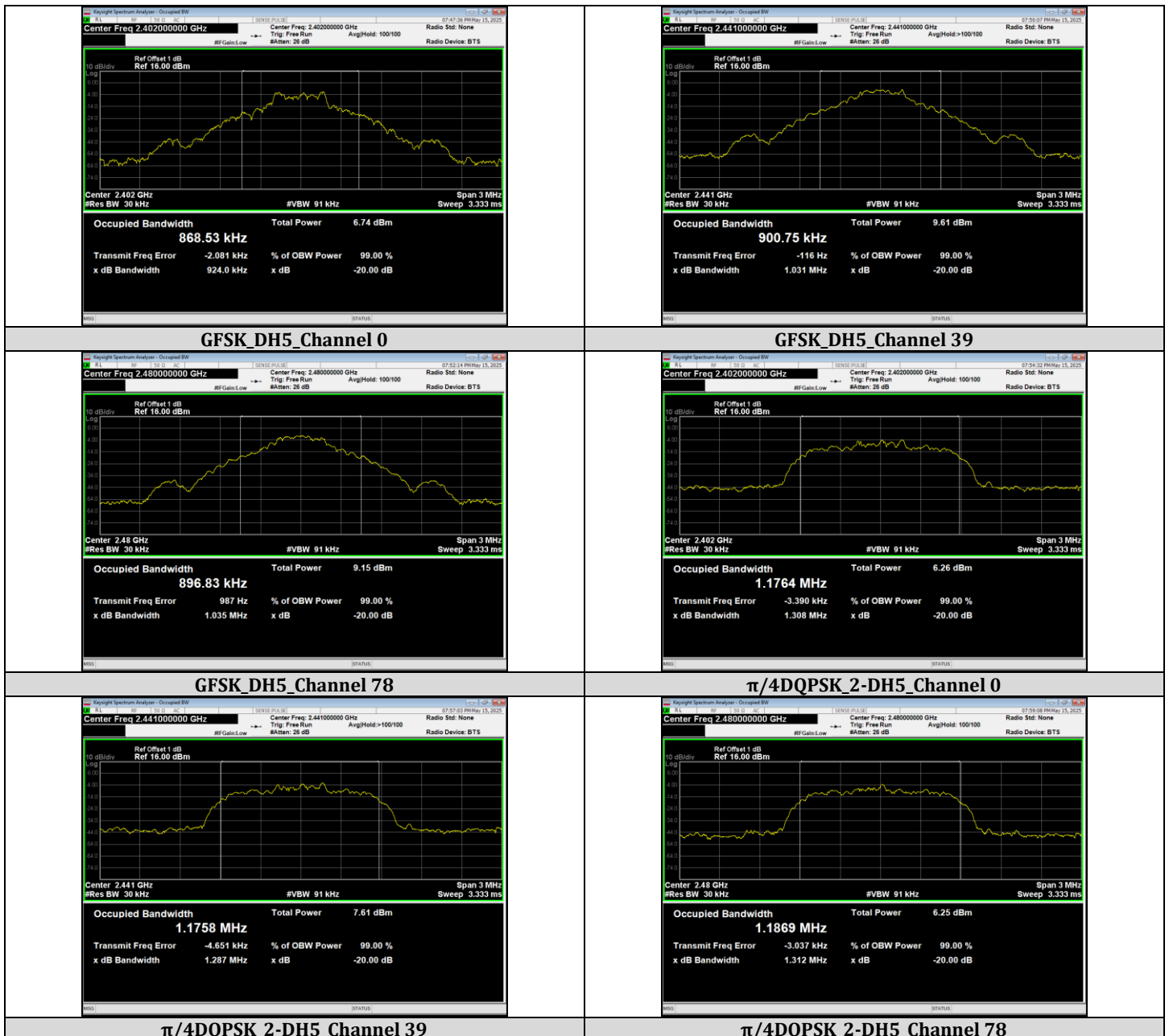
Average Output Power 8DPSK_Channel 78
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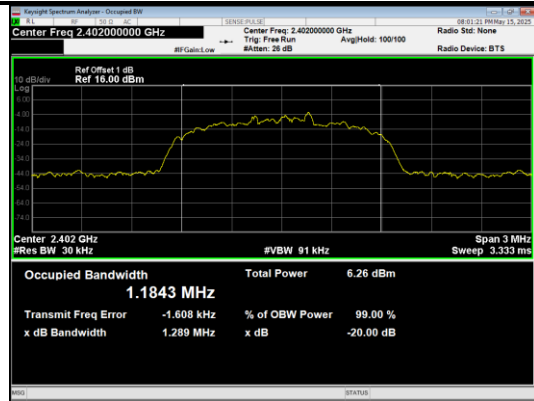
20dB Bandwidth

Test Result

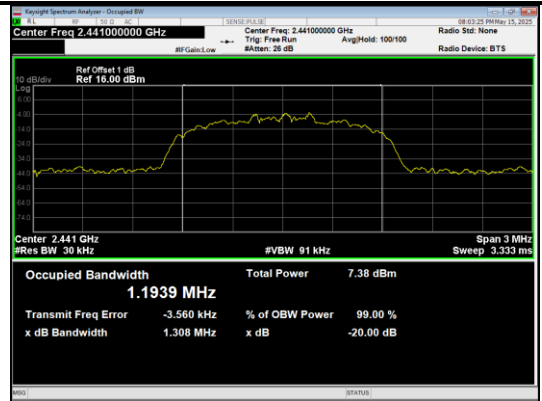
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9240
	39	2441 MHz	1.031
	78	2480 MHz	1.035
$\pi/4$ DQPSK	0	2402 MHz	1.308
	39	2441 MHz	1.287
	78	2480 MHz	1.312
8DPSK	0	2402 MHz	1.289
	39	2441 MHz	1.308
	78	2480 MHz	1.296

Test Graphs

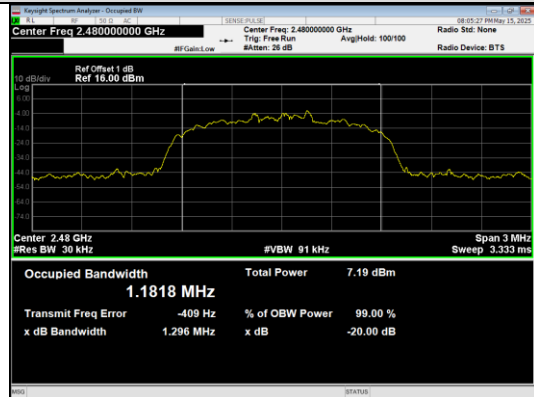




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



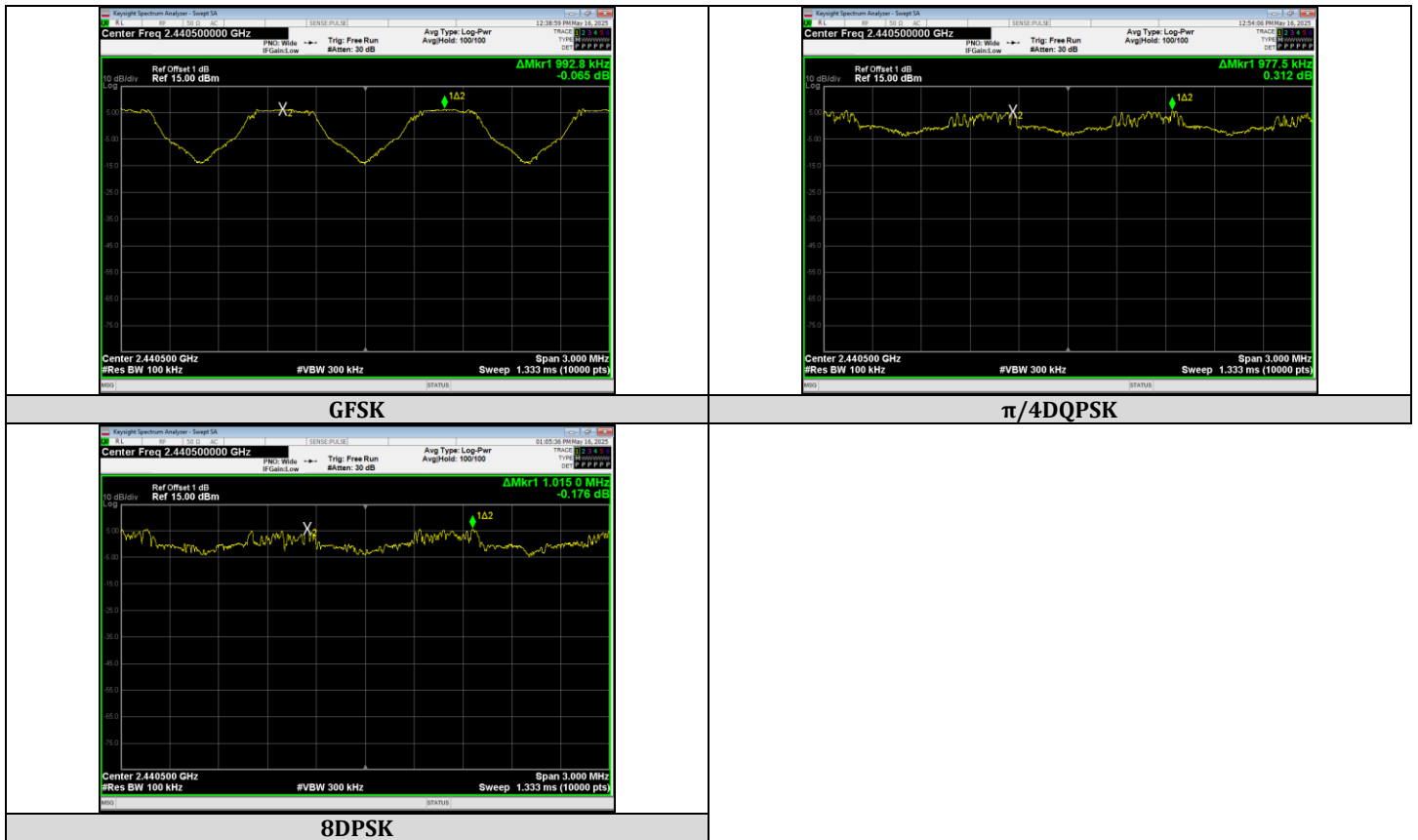
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.9925	2440.9853	0.9928	0.69	PASS
$\pi/4$ DQPSK	2-DH5	2440.1632	2441.1407	0.9775	0.875	PASS
8DPSK	3-DH5	2440.1422	2441.1572	1.0150	0.872	PASS

Test Graphs

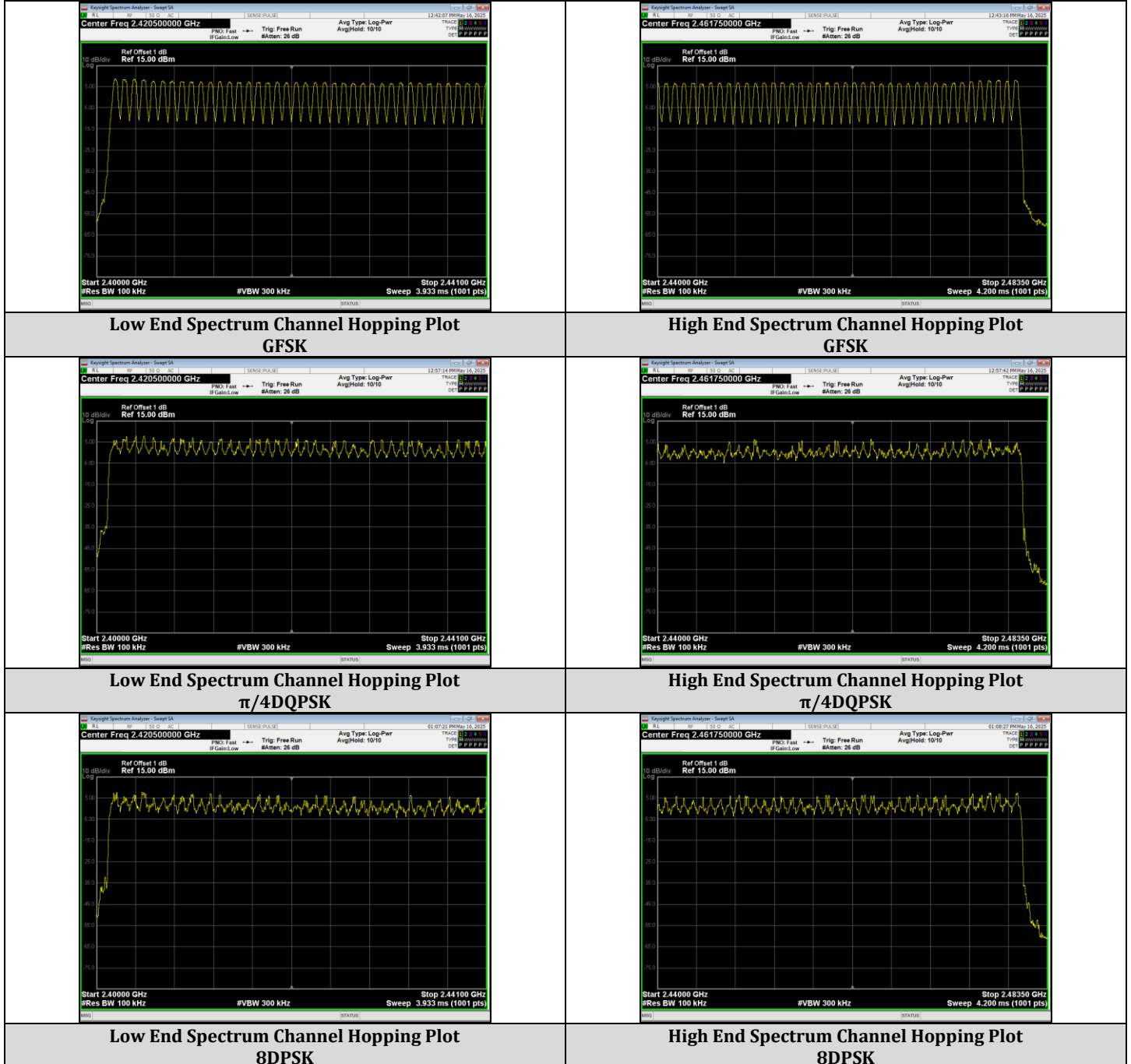


Number Of Hopping Channel

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

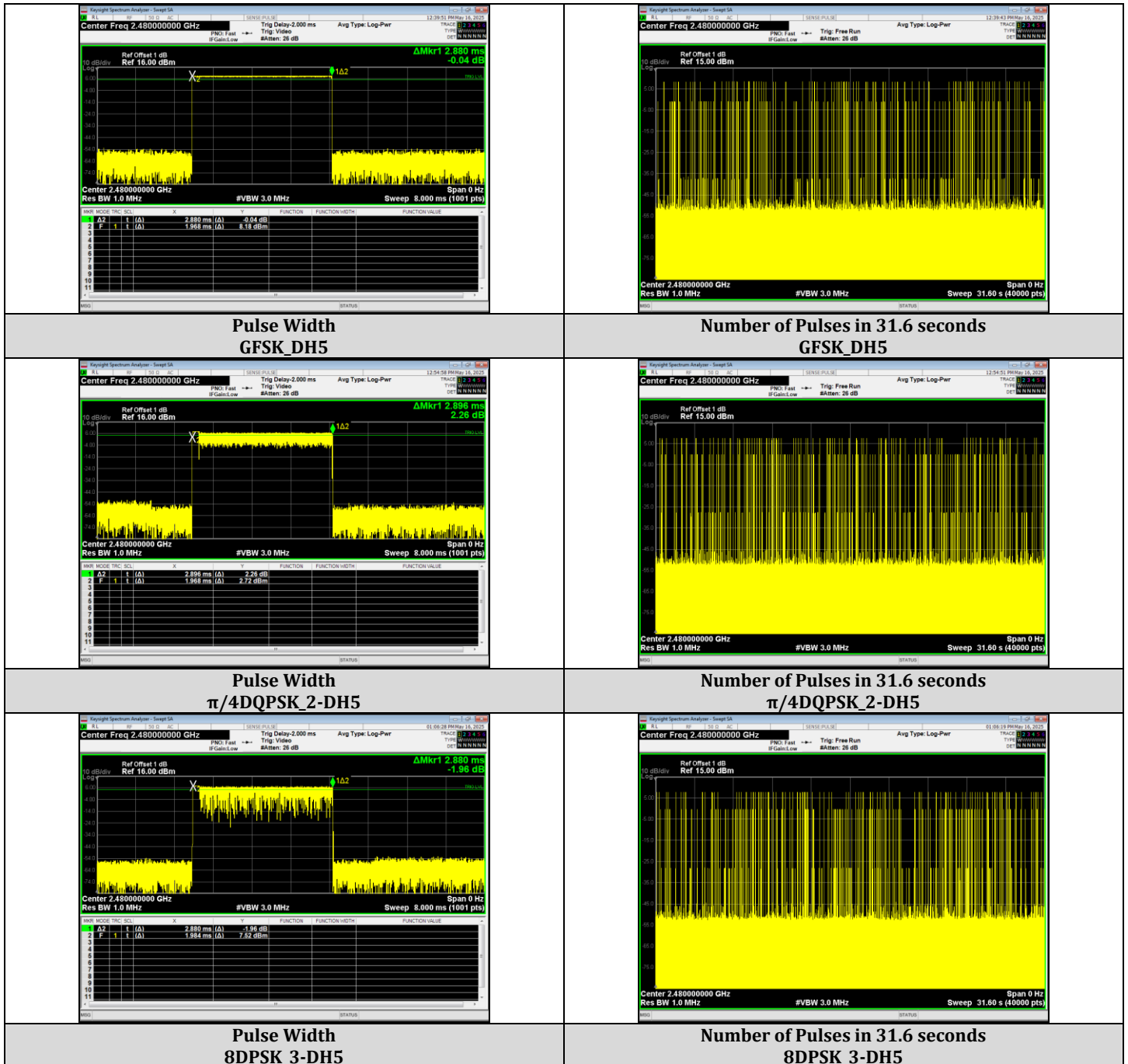


Dwell Time

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)	2.880	103	296.64	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.896	102	295.39		PASS
8DPSK	3-DH5		2.880	113	325.44		PASS

Test Graphs



Conducted Out Of Band Emission

Test Result

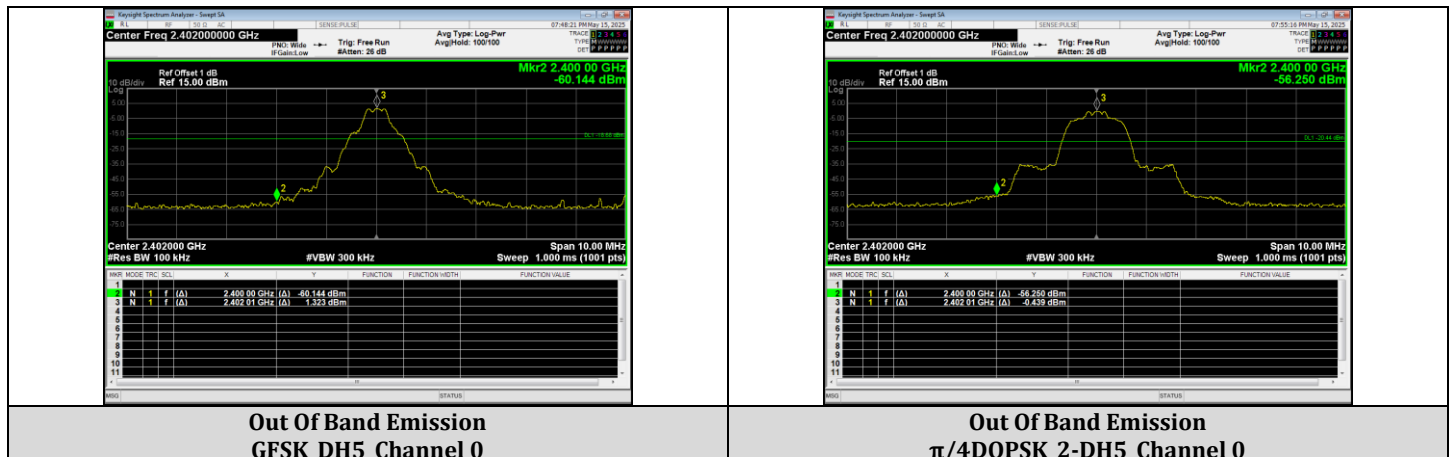
Non-Hopping

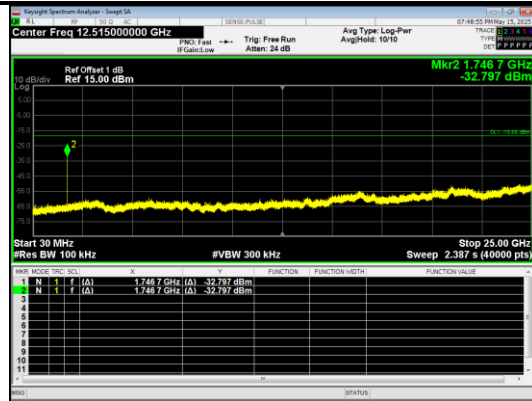
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	1746.73	-32.797	-18.68	-14.117	PASS
			2400.00	-60.144	-18.68	-41.464	PASS
		39	2570.76	-48.086	-17.49	-30.596	PASS
			1746.73	-49.242	-17.28	-31.962	PASS
$\pi/4$ DQPSK	2-DH5	0	2483.50	-62.344	-17.28	-45.064	PASS
			1764.21	-42.785	-20.44	-22.345	PASS
		39	2400.00	-56.250	-20.44	-35.810	PASS
			24911.3	-49.676	-19.23	-30.446	PASS
8DPSK	3-DH5	0	2483.50	-62.292	-19.52	-42.772	PASS
			24953.8	-49.896	-19.52	-30.376	PASS
		39	2400.00	-58.029	-20.55	-37.479	PASS
			3404.16	-27.510	-20.55	-6.960	PASS
8DPSK	3-DH5	78	24928.8	-50.225	-19.24	-30.985	PASS
			2483.50	-61.663	-19.29	-42.373	PASS
		78	3406.65	-25.153	-19.29	-5.863	PASS
			2400.00	-58.029	-20.55	-37.479	PASS

Hopping

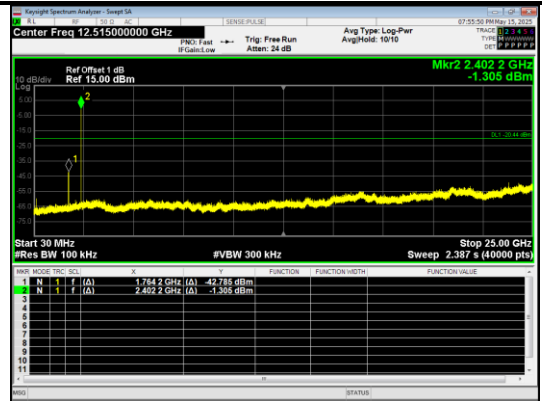
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-58.190	-11.4	-46.790	PASS
			2483.50	-59.478	-12.05	-47.428	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-50.682	-12.04	-38.642	PASS
			2483.50	-60.442	-12.78	-47.662	PASS
8DPSK	3-DH5		2400.00	-49.815	-12.09	-37.725	PASS
			2483.50	-61.550	-12.85	-48.700	PASS

Test Graphs

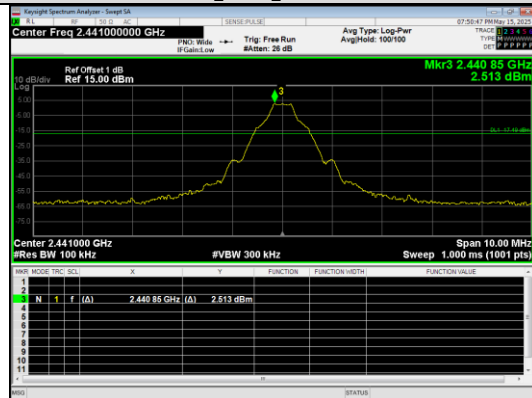




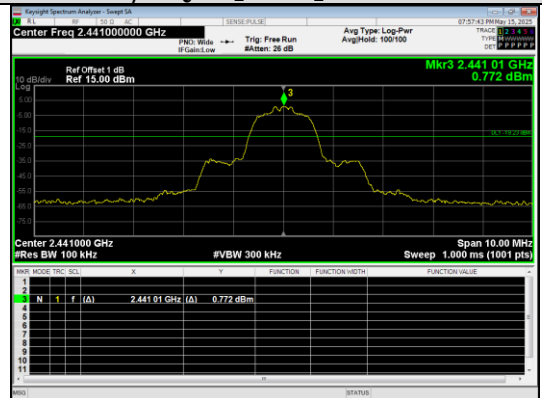
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



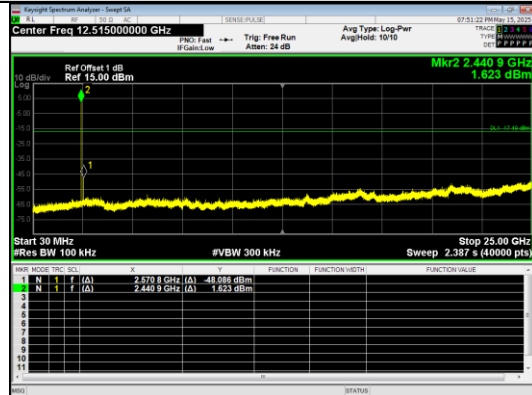
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



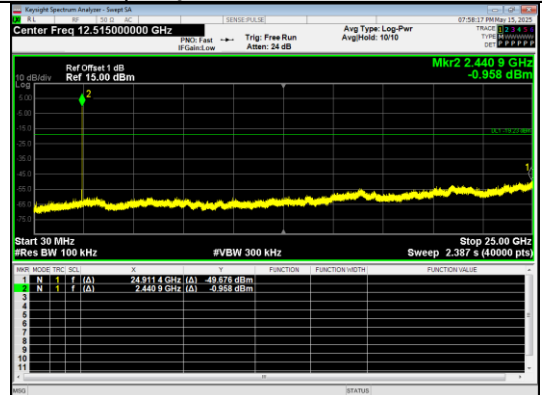
Out Of Band Emission
GFSK_DH5_Channel 39



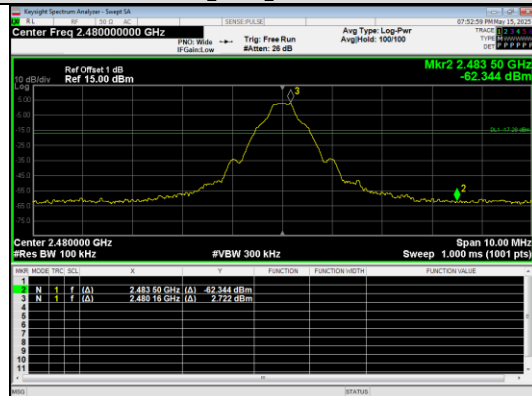
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



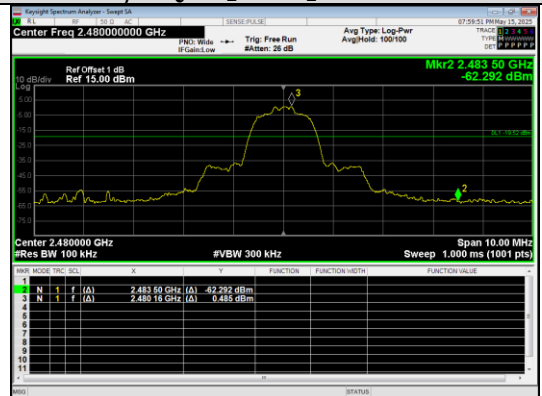
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



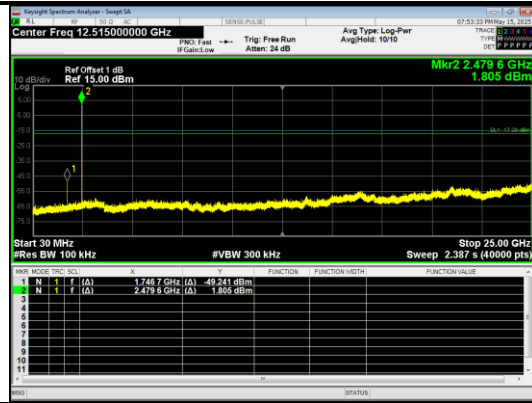
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



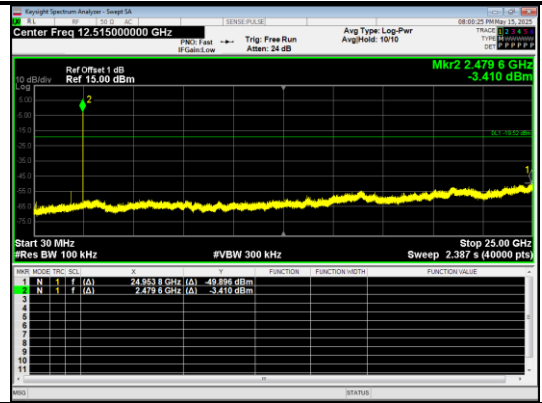
Out Of Band Emission
GFSK_DH5_Channel 78



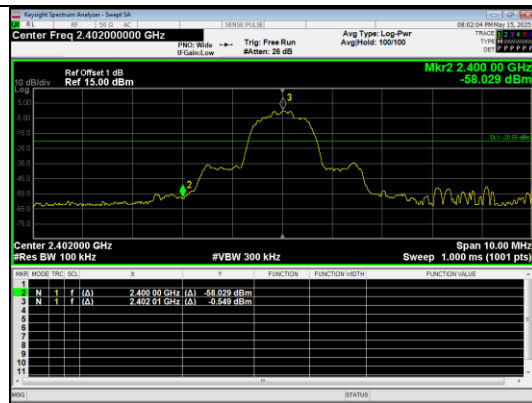
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



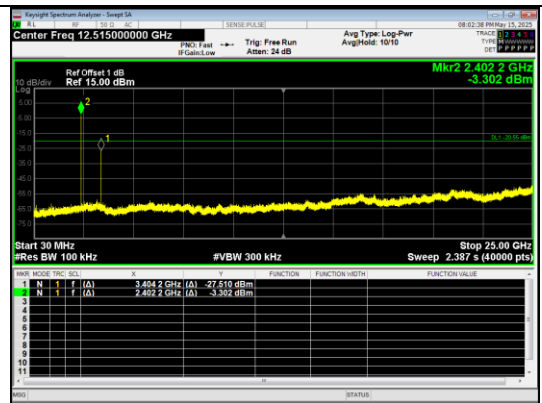
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



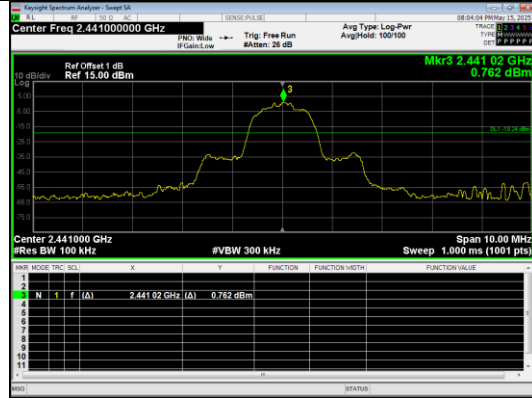
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



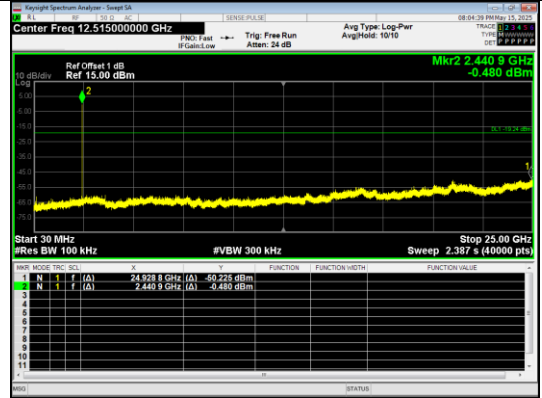
Out Of Band Emission
8DPSK_3-DH5_Channel 0



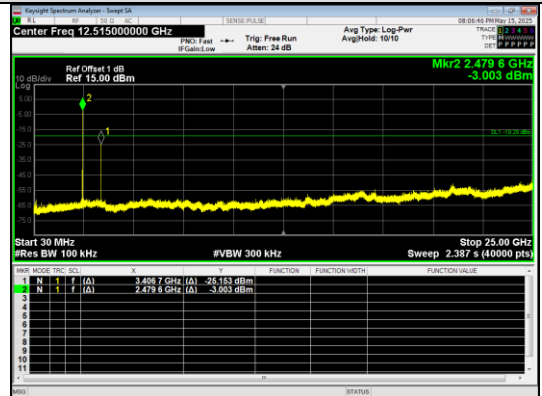
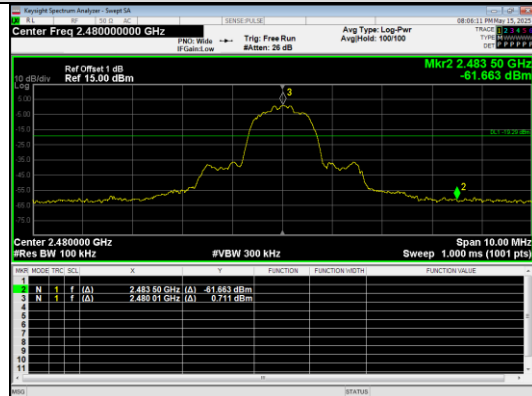
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



Out Of Band Emission
8DPSK_3-DH5_Channel 39

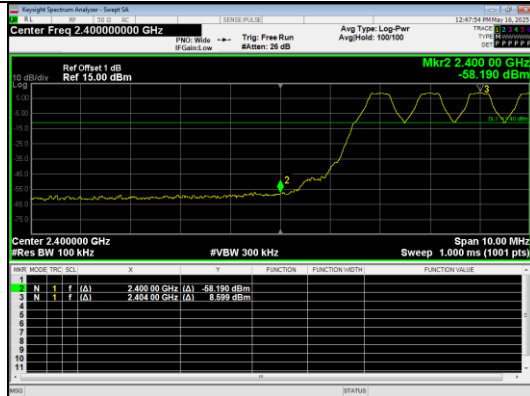


30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



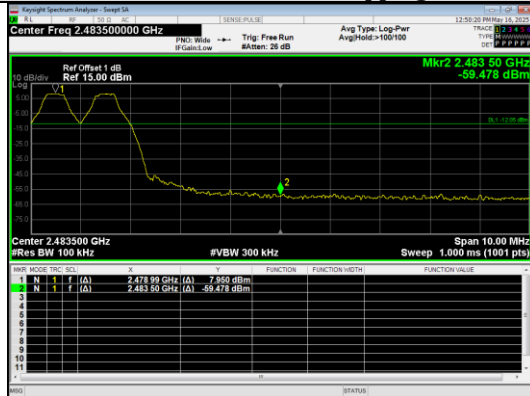
Out Of Band Emission 8DPSK_3-DH5_Channel 78

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 *****