

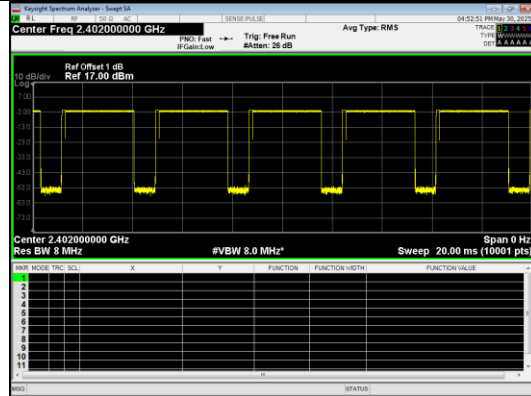
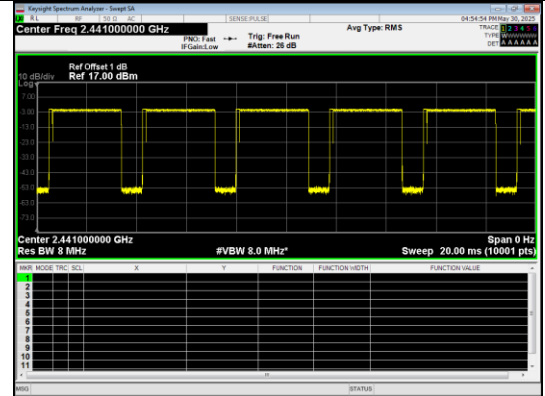
Duty Cycle

Test Result

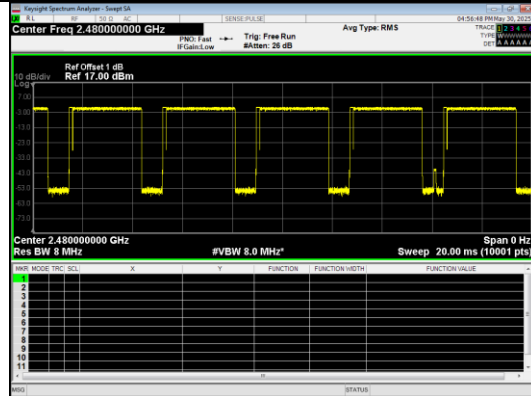
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.910	3.748	77.64	0.7764	1.0991	0.3436
		39	2.910	3.748	77.64	0.7764	1.0991	0.3436
		78	2.908	3.748	77.59	0.7759	1.1019	0.3439
$\pi/4$ DQPSK	2-DH5	0	2.898	3.748	77.32	0.7732	1.1171	0.3451
		39	2.898	3.748	77.32	0.7732	1.1171	0.3451
		78	2.898	3.748	77.32	0.7732	1.1171	0.3451
8DPSK	3-DH5	0	2.896	3.748	77.27	0.7727	1.1199	0.3453
		39	2.896	3.748	77.27	0.7727	1.1199	0.3453
		78	2.896	3.748	77.27	0.7727	1.1199	0.3453

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

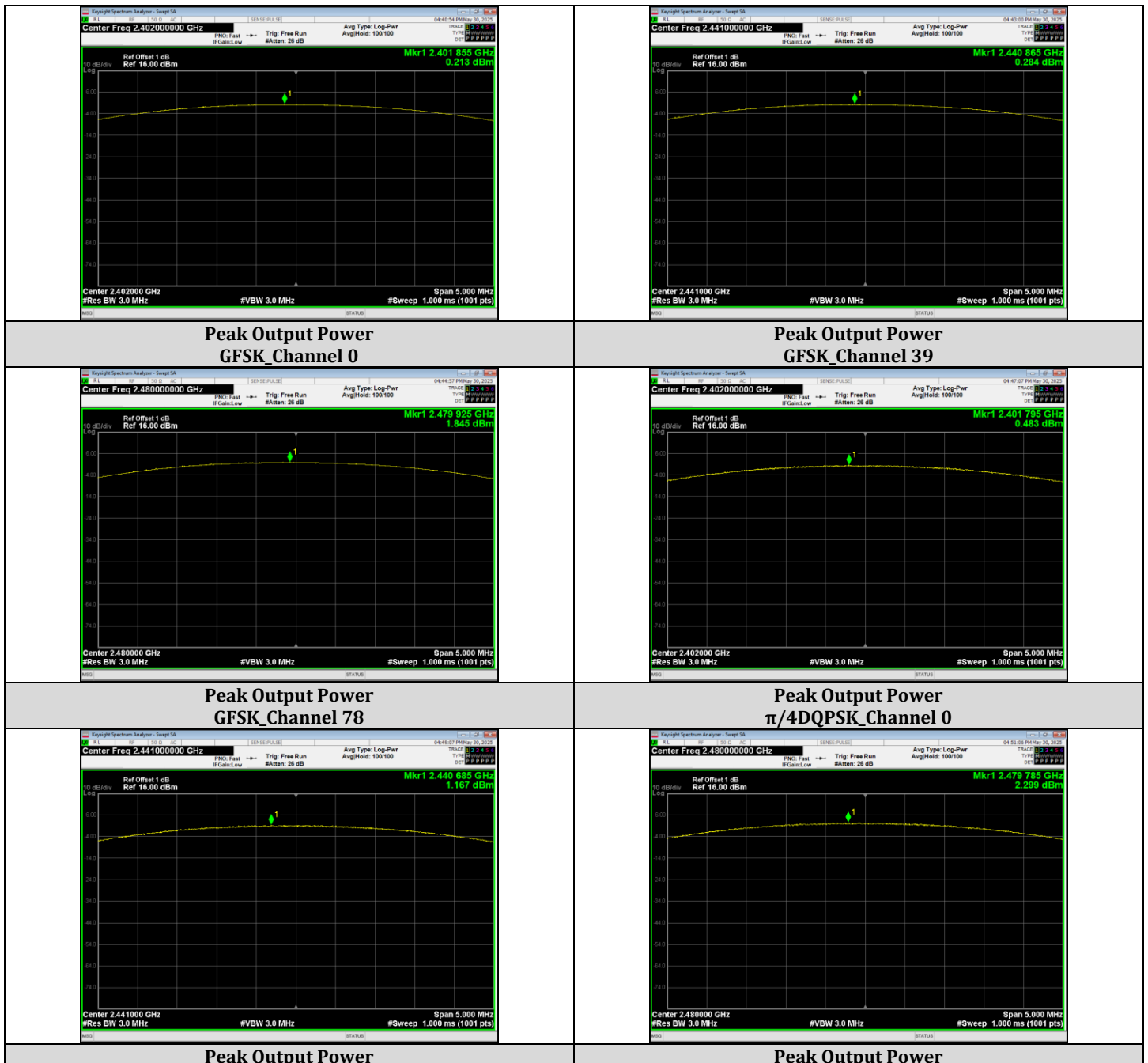
8DPSK(3-DH5)_Channel 78

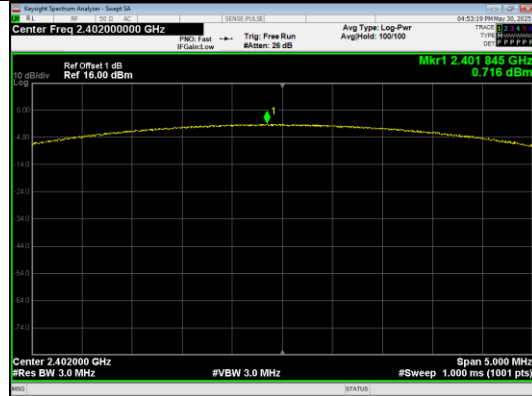
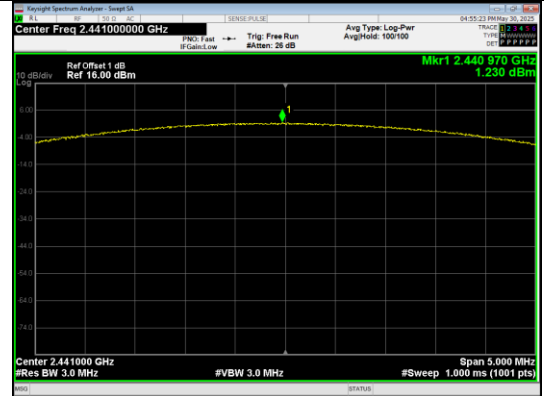
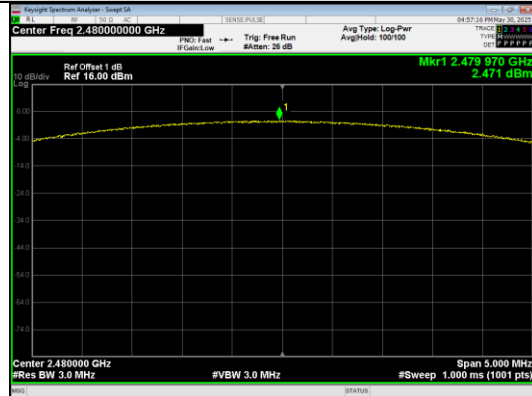
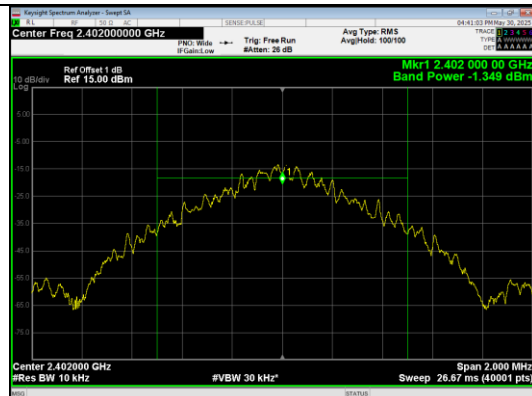
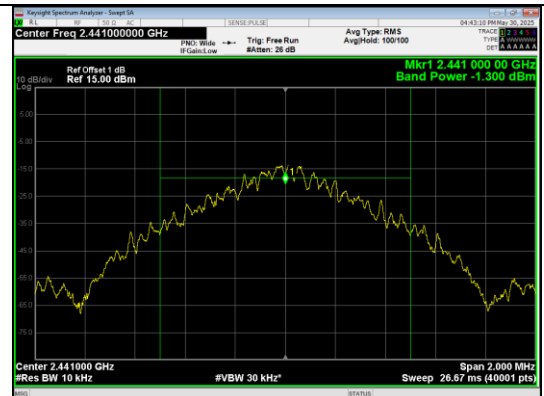
Conducted Output Power

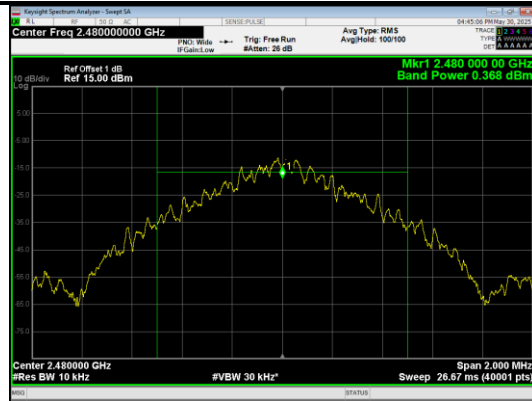
Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	0.21	≤30	PASS
		39	0.28		PASS
		78	1.84		PASS
$\pi/4$ DQPSK	2-DH5	0	0.48	≤20.97	PASS
		39	1.17		PASS
		78	2.30		PASS
8DPSK	3-DH5	0	0.72		PASS
		39	1.23		PASS
		78	2.47		PASS

Test Graphs



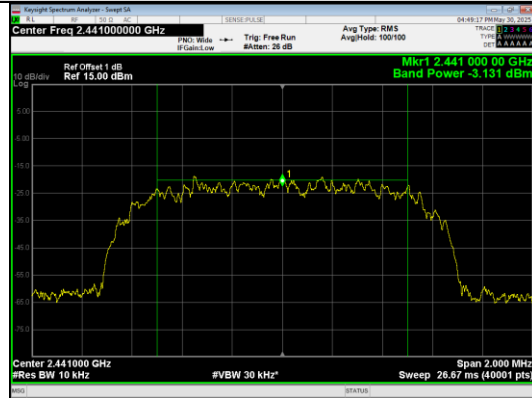
 $\pi/4$ DQPSK_Channel 39 $\pi/4$ DQPSK_Channel 78Peak Output Power
8DPSK_Channel 0Peak Output Power
8DPSK_Channel 78Peak Output Power
8DPSK_Channel 39Average Output Power
GFSK_Channel 0Average Output Power
GFSK_Channel 39



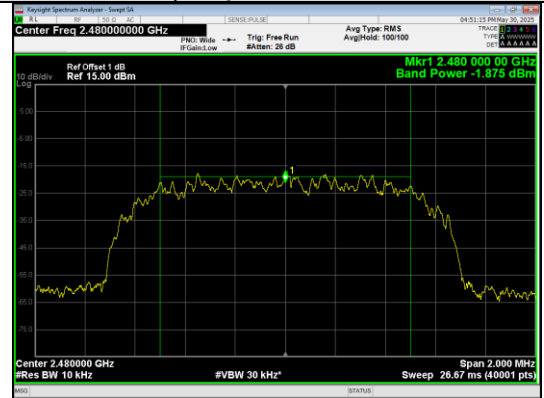
**Average Output Power
GFSK_Channel 78**



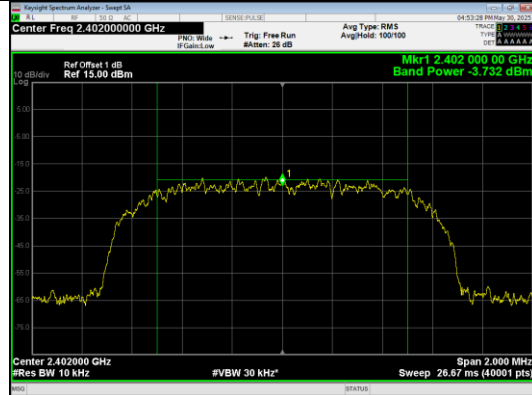
**Average Output Power
 $\pi/4$ DQPSK_Channel 0**



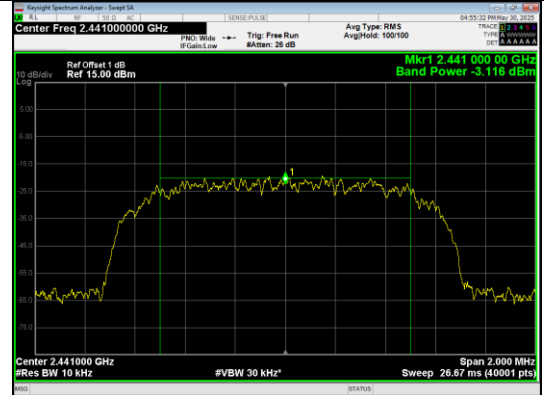
**Average Output Power
 $\pi/4$ DQPSK_Channel 39**



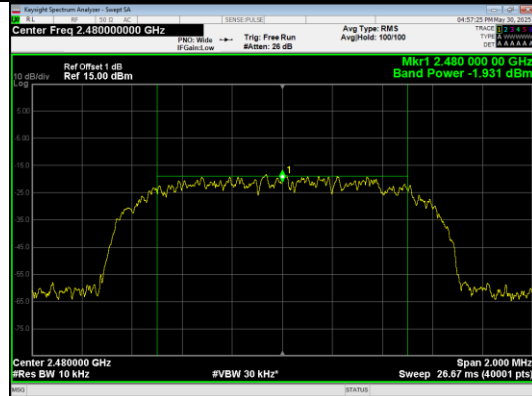
**Average Output Power
 $\pi/4$ DQPSK_Channel 78**



**Average Output Power
8DPSK_Channel 0**



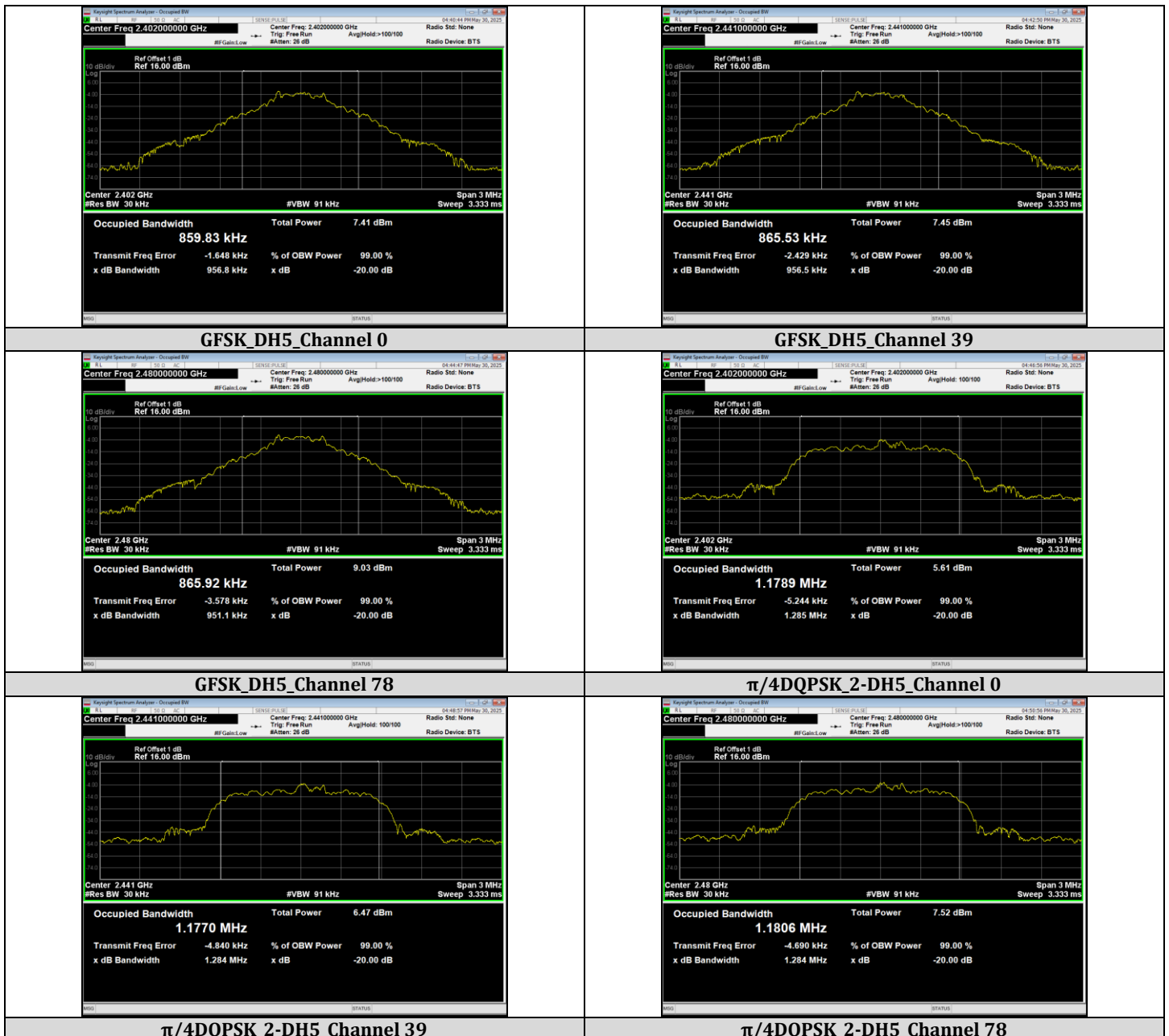
**Average Output Power
8DPSK_Channel 39**

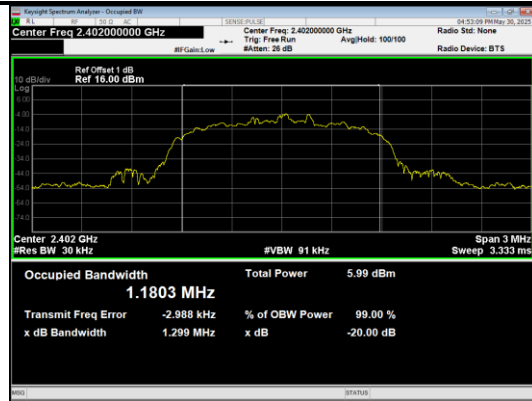


**Average Output Power
8DPSK_Channel 78**

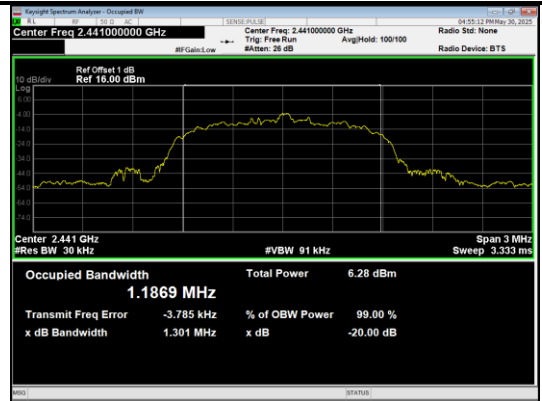
**20dB Bandwidth****Test Result**

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9568
	39	2441 MHz	0.9565
	78	2480 MHz	0.9511
$\pi/4$ DQPSK	0	2402 MHz	1.285
	39	2441 MHz	1.284
	78	2480 MHz	1.284
8DPSK	0	2402 MHz	1.299
	39	2441 MHz	1.301
	78	2480 MHz	1.300

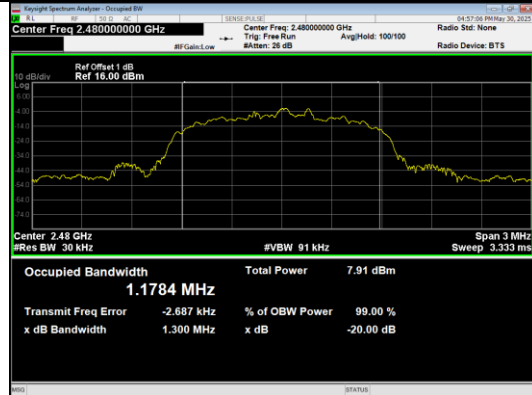
Test Graphs



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



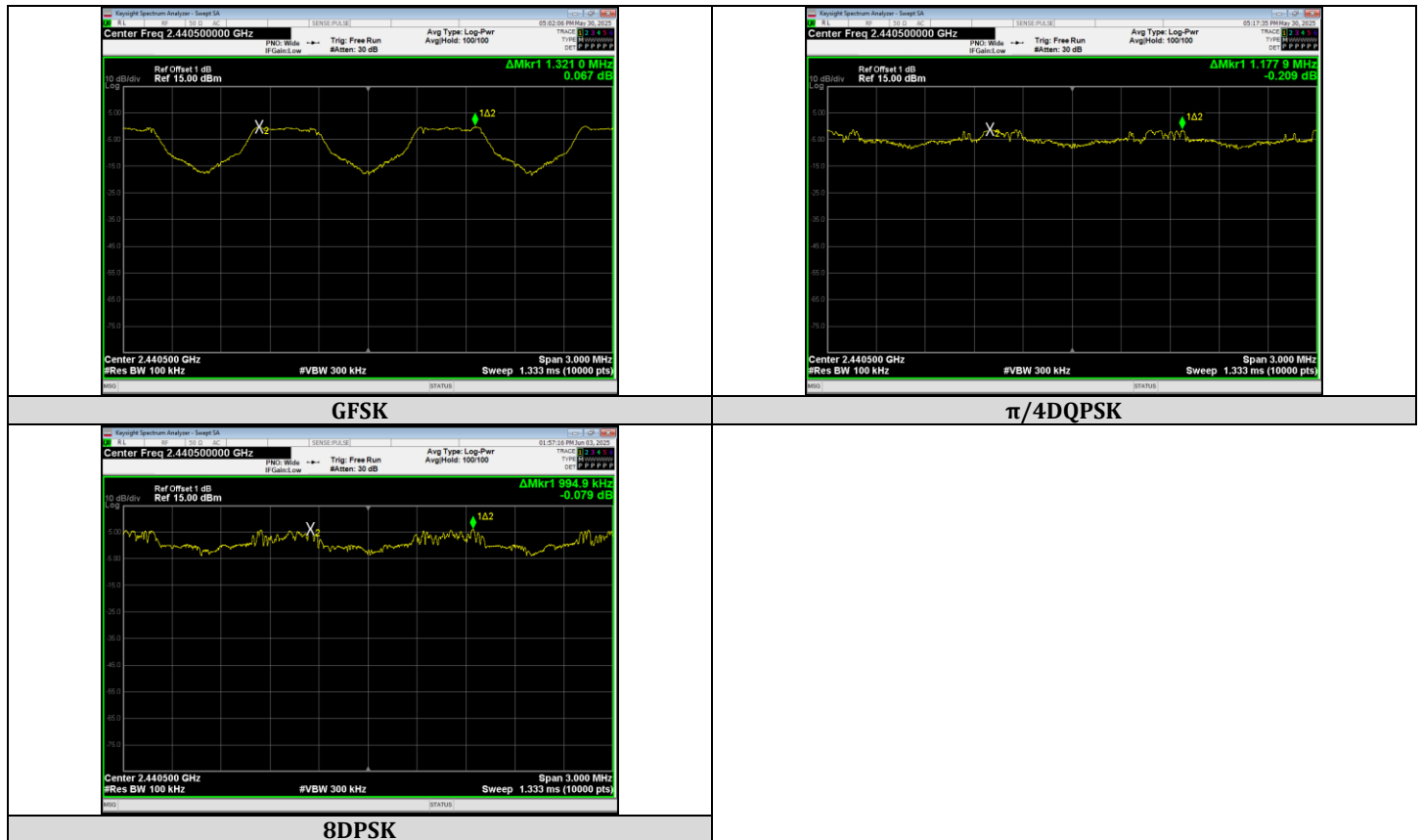
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8341	2441.1551	1.3210	0.638	PASS
$\pi/4$ DQPSK	2-DH5	2439.9961	2441.174	1.1779	0.857	PASS
8DPSK	3-DH5	2440.1473	2441.1422	0.9949	0.867	PASS

Test Graphs

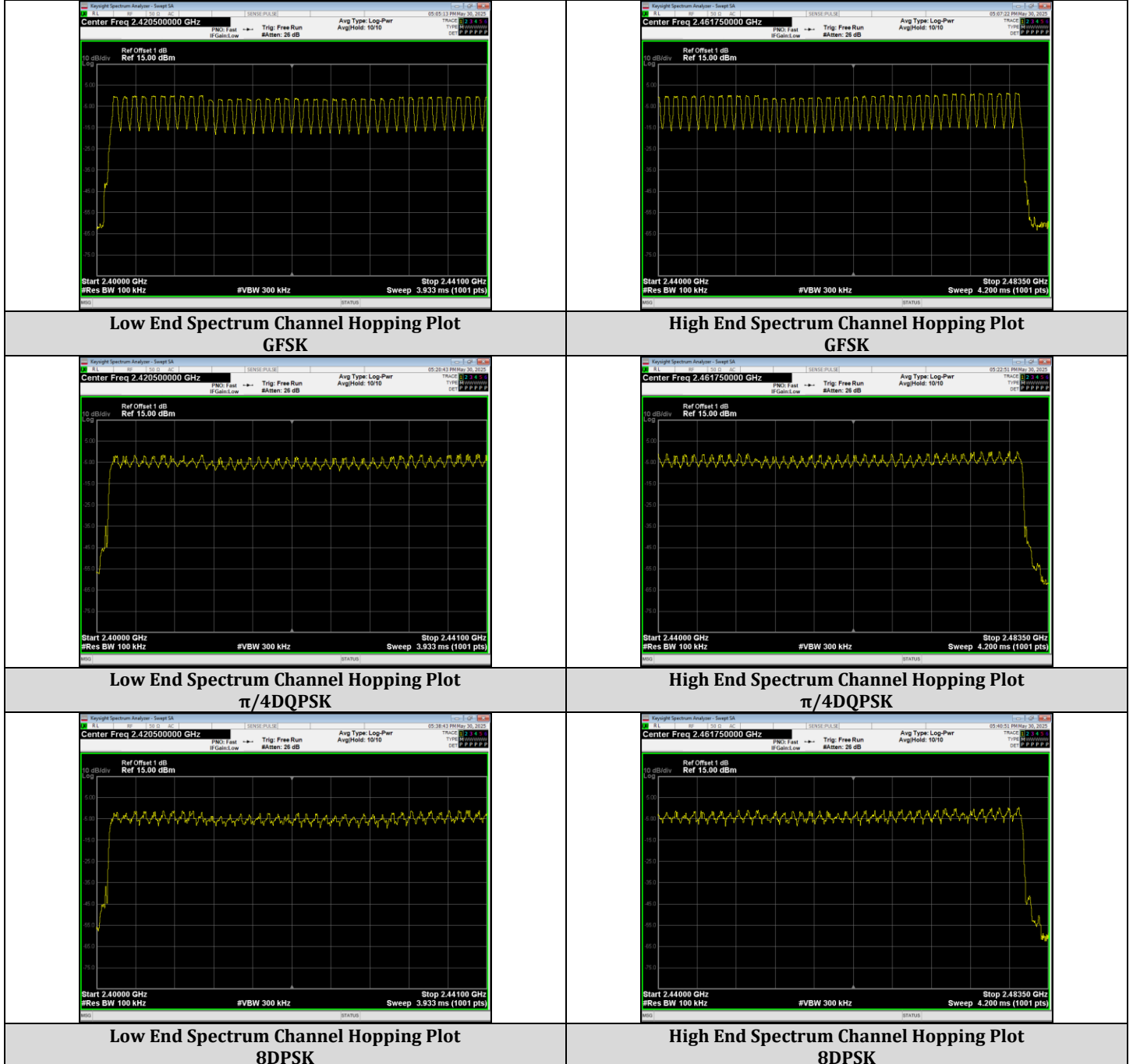


Number Of Hopping Channel

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

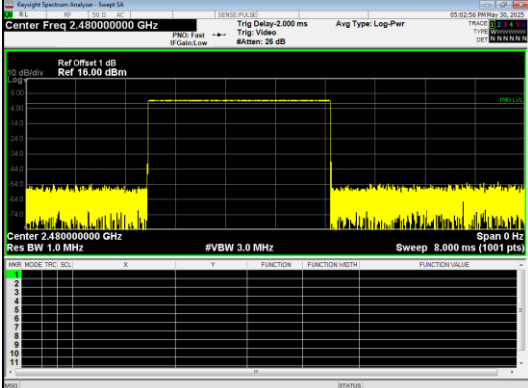
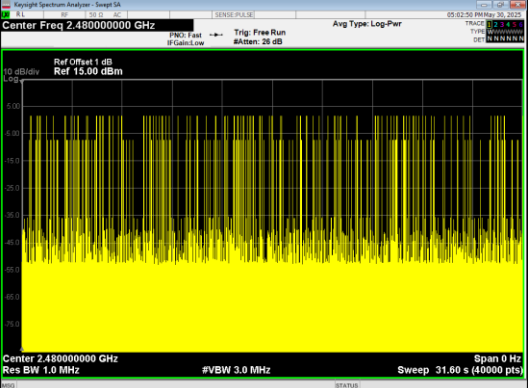
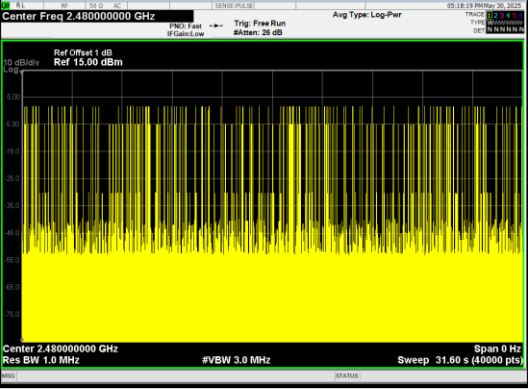
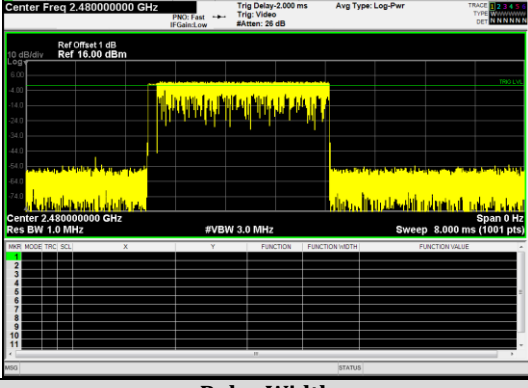
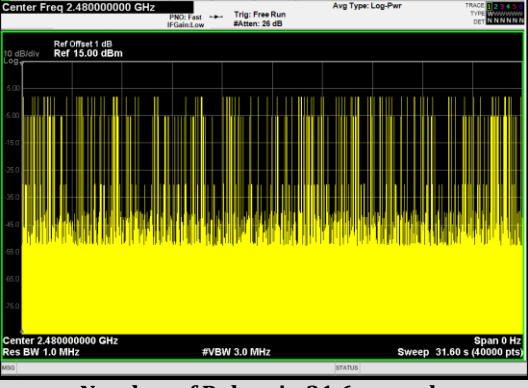


Dwell Time

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)	2.912	114	331.97	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.896	121	350.42		PASS
8DPSK	3-DH5		2.896	101	292.5		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

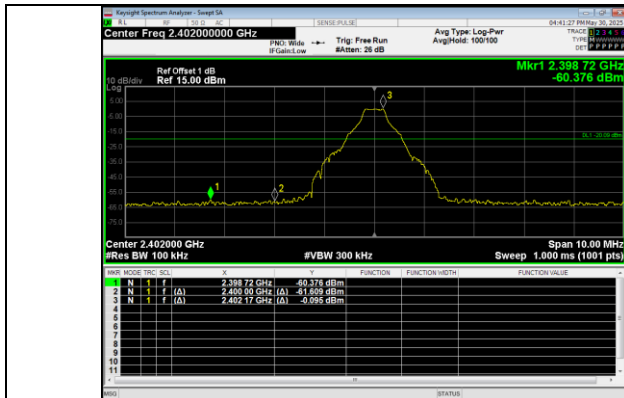
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2398.72	-60.376	-20.09	-40.286	PASS
			2400.00	-61.609	-20.09	-41.519	PASS
			5775.10	-33.296	-20.09	-13.206	PASS
		39	5775.12	-35.253	-20.06	-15.193	PASS
		78	2483.50	-60.142	-18.49	-41.652	PASS
			5775.12	-35.877	-18.49	-17.387	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-56.372	-21.7	-34.672	PASS
			5775.12	-33.429	-21.7	-11.729	PASS
		39	5775.12	-36.294	-20.97	-15.324	PASS
			2483.50	-60.859	-19.75	-41.109	PASS
		78	5775.12	-36.565	-19.75	-16.815	PASS
			2483.50	-60.859	-19.75	-41.109	PASS
8DPSK	3-DH5	0	2400.00	-56.743	-21.51	-35.233	PASS
			5775.12	-34.782	-21.51	-13.272	PASS
		39	1755.47	-36.599	-20.96	-15.639	PASS
			2483.50	-59.141	-19.7	-39.441	PASS
		78	2483.50	-59.141	-19.7	-39.441	PASS
			2612.59	-36.819	-19.7	-17.119	PASS

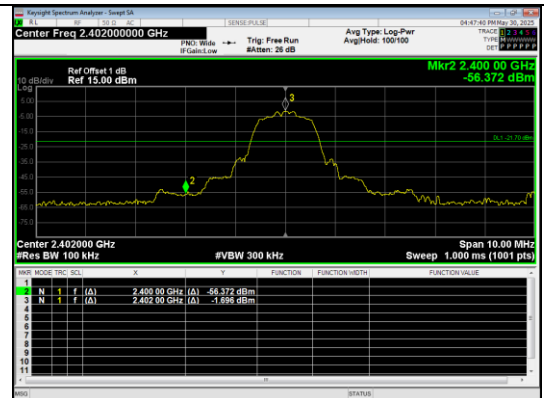
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2396.95	-59.101	-20.18	-38.921	PASS
			2400.00	-61.322	-20.18	-41.142	PASS
			2483.50	-60.449	-18.69	-41.759	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-58.468	-21.66	-36.808	PASS
			2483.50	-62.138	-19.95	-42.188	PASS
8DPSK	3-DH5		2400.00	-55.736	-21.52	-34.216	PASS
			2483.50	-61.309	-19.8	-41.509	PASS

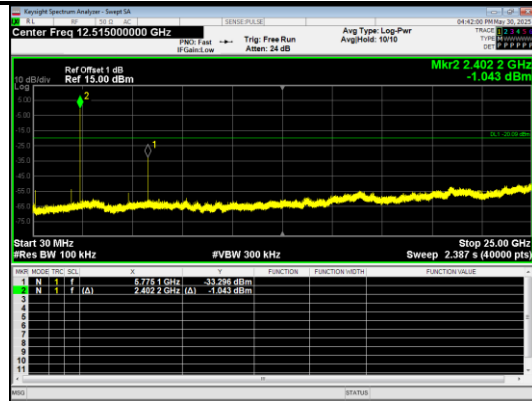
Test Graphs



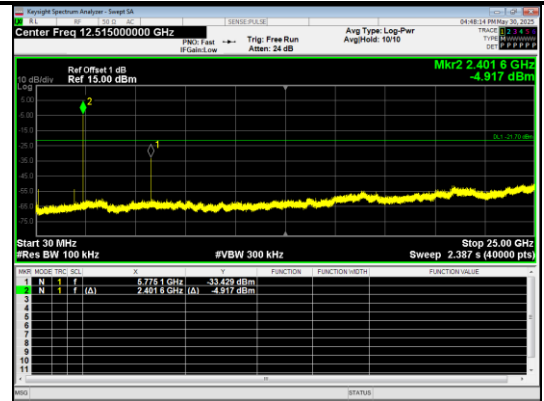
Out Of Band Emission
GFSK_DH5_Channel 0



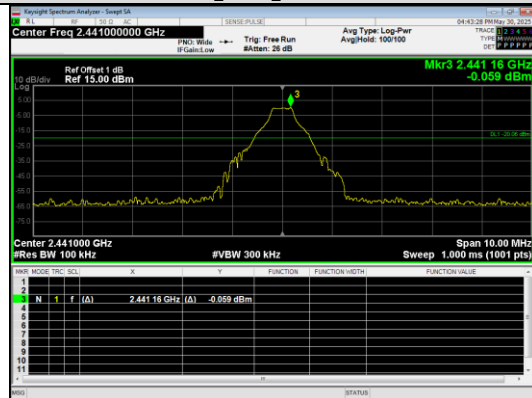
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



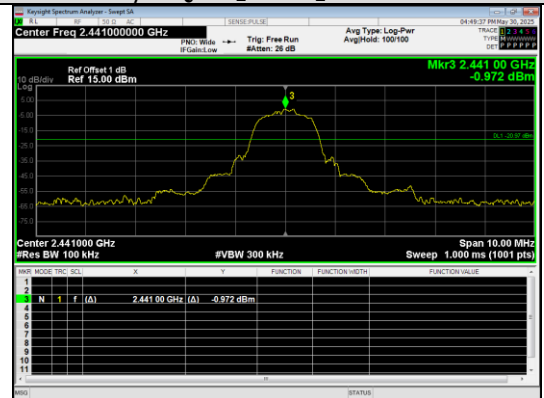
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



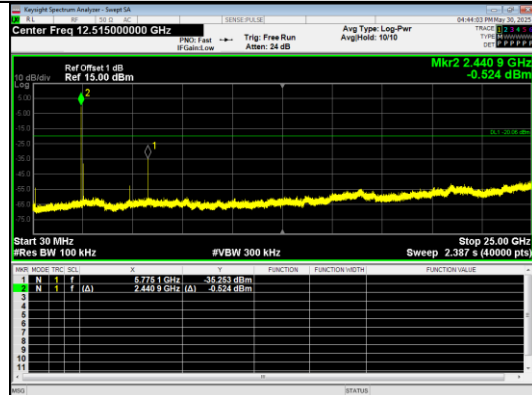
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



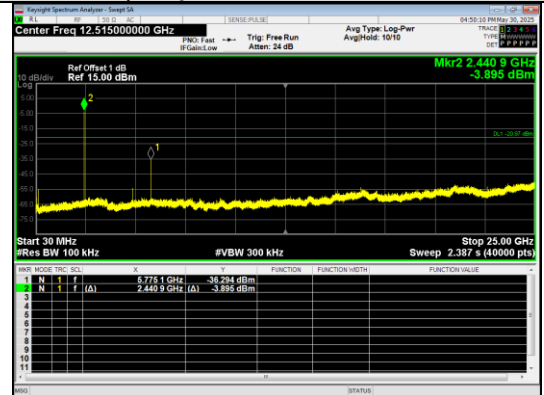
Out Of Band Emission
GFSK_DH5_Channel 39



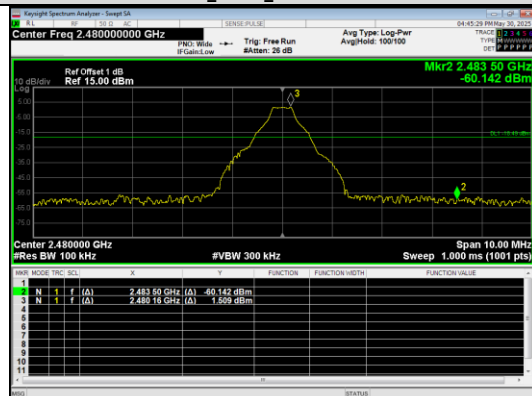
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



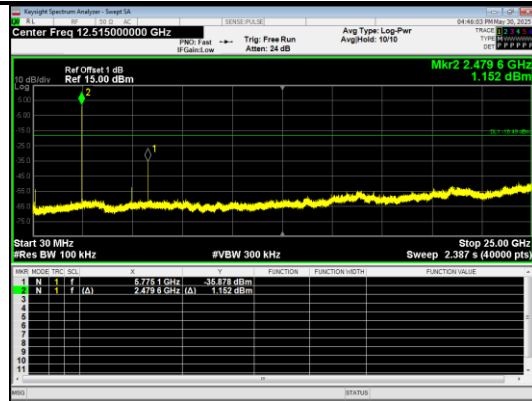
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



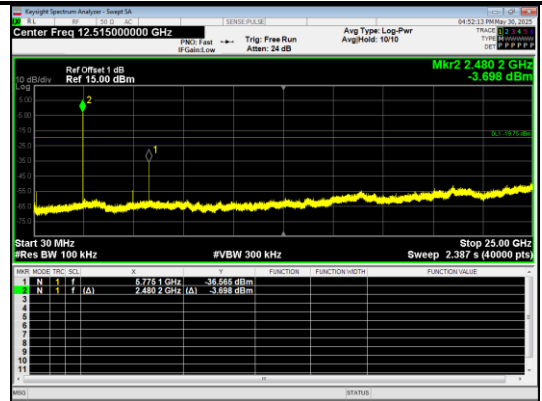
Out Of Band Emission
GFSK_DH5_Channel 78



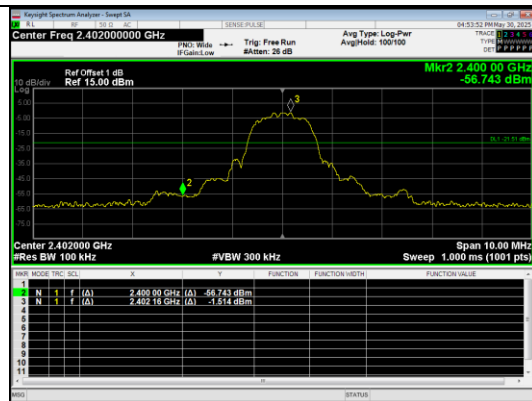
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



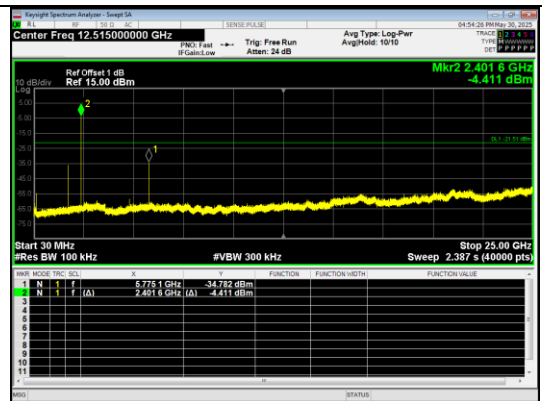
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



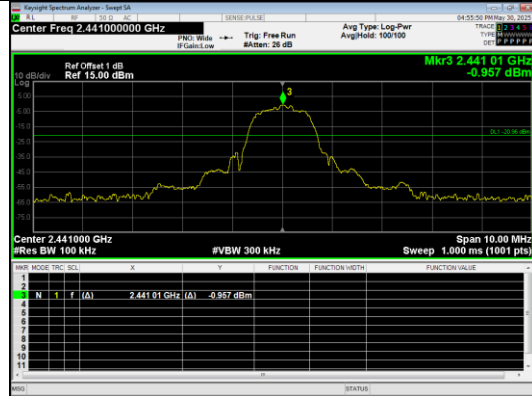
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



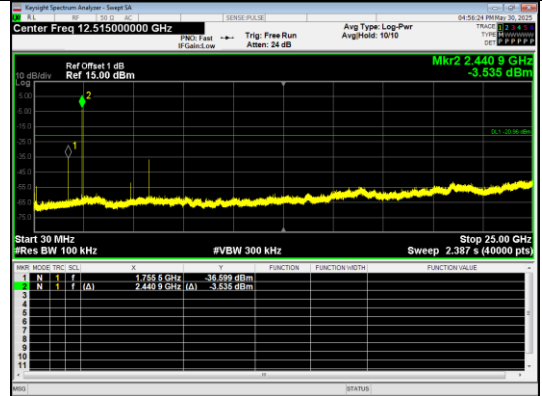
Out Of Band Emission
8DPSK_3-DH5_Channel 0



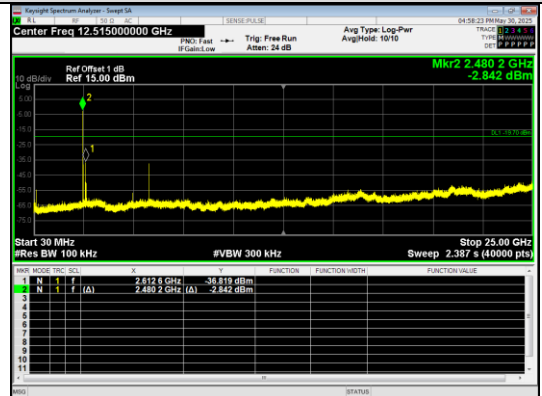
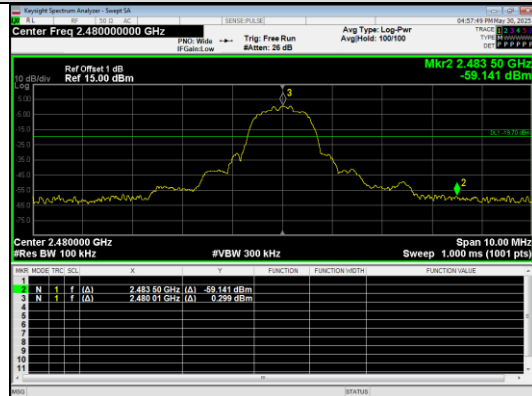
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0

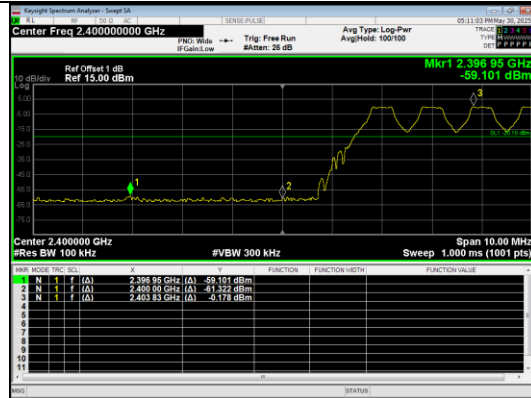
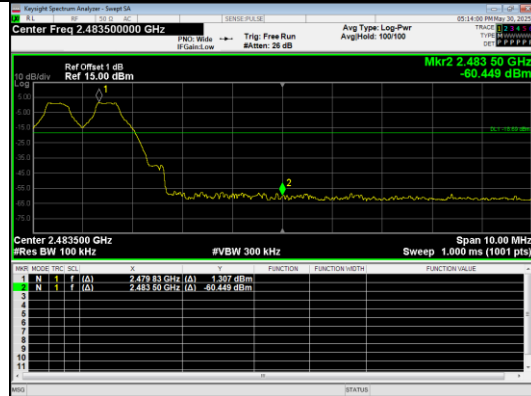
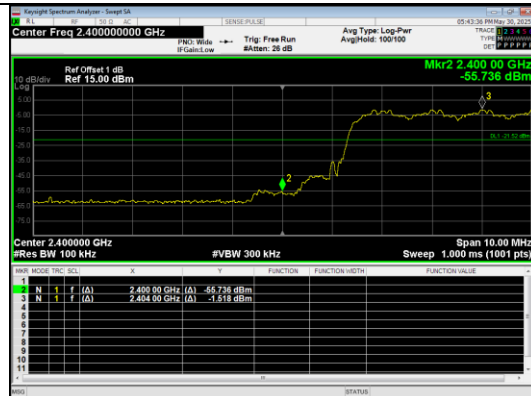


Out Of Band Emission
8DPSK_3-DH5_Channel 39



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)
8FSK_DH5_Channel Hopping****Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping****Out Of Band Emission(Right)
8FSK_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 *****