

Duty Cycle

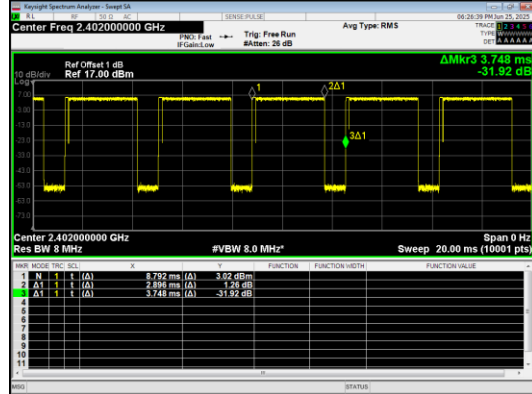
Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.908	3.748	77.59	0.7759	1.1019	0.3439
		39	2.908	3.748	77.59	0.7759	1.1019	0.3439
		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

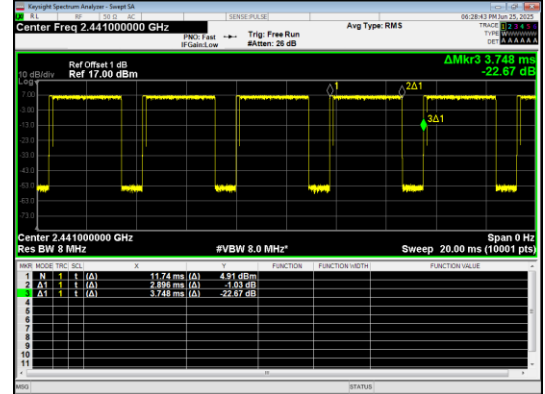
Test Graphs



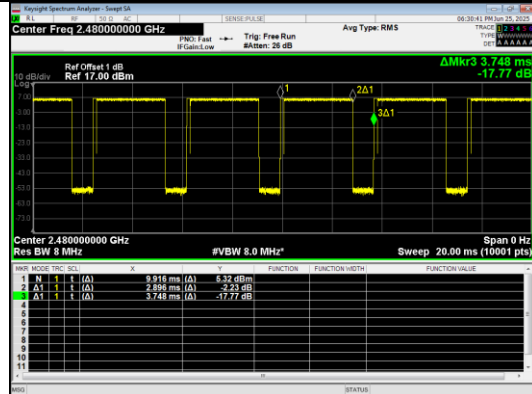
$\pi/4$ DQPSK(2-DH5)_Channel 39



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



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39

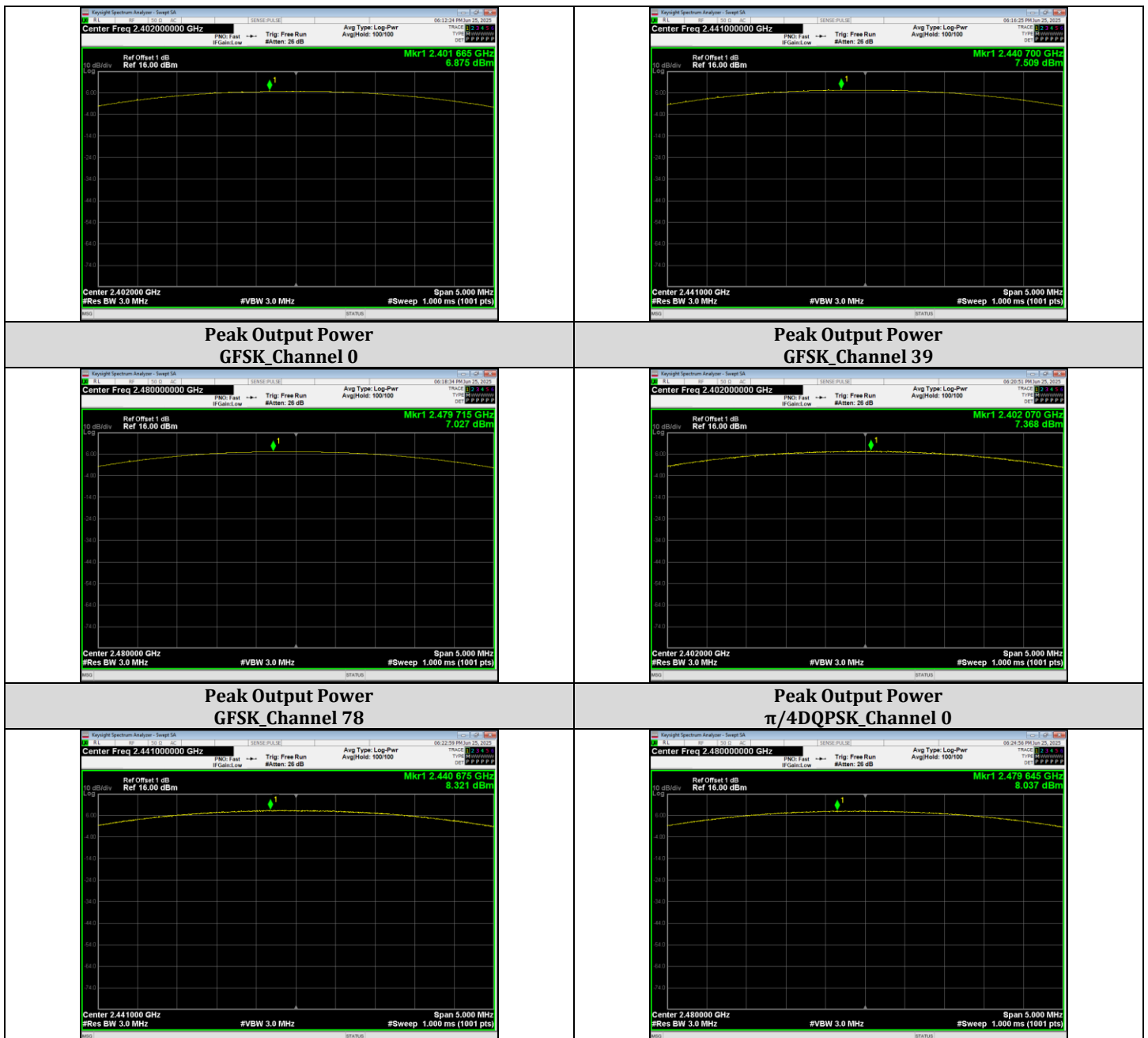
8DPSK(3-DH5)_Channel 78

Conducted Output Power

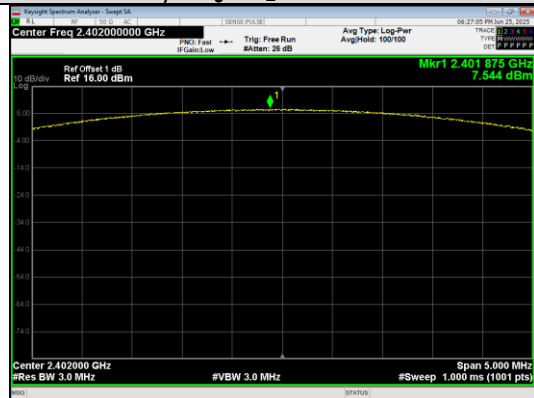
Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	DH5	0	6.88	4.87	≤30	PASS
		39	7.51	5.64		PASS
		78	7.03	5.04		PASS
$\pi/4$ DQPSK	2-DH5	0	7.37	5.46	≤20.97	PASS
		39	8.32	6.79		PASS
		78	8.04	6.36		PASS
8DPSK	3-DH5	0	7.54	5.68	≤20.97	PASS
		39	8.60	7.25		PASS
		78	8.26	6.70		PASS

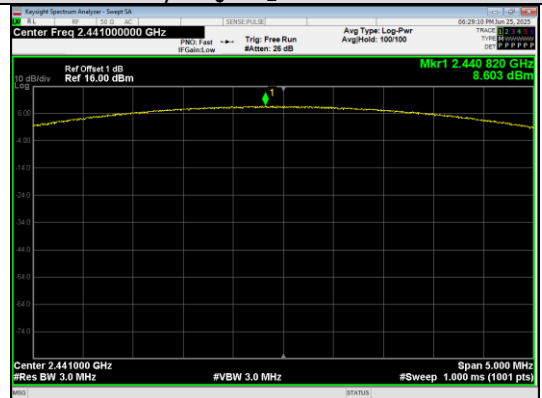
Test Graphs



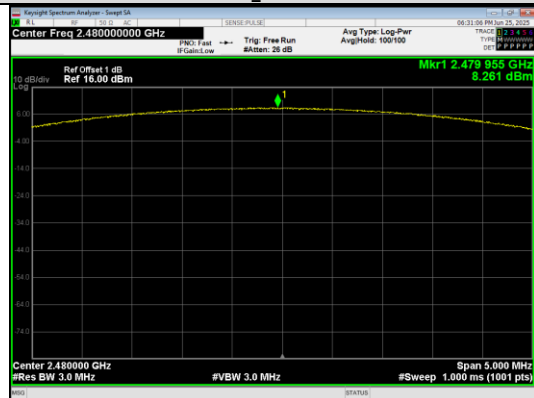
Peak Output Power $\pi/4$ DQPSK_Channel 39



Peak Output Power $\pi/4$ DQPSK_Channel 78



Peak Output Power 8DPSK_Channel 0



Peak Output Power 8DPSK_Channel 39

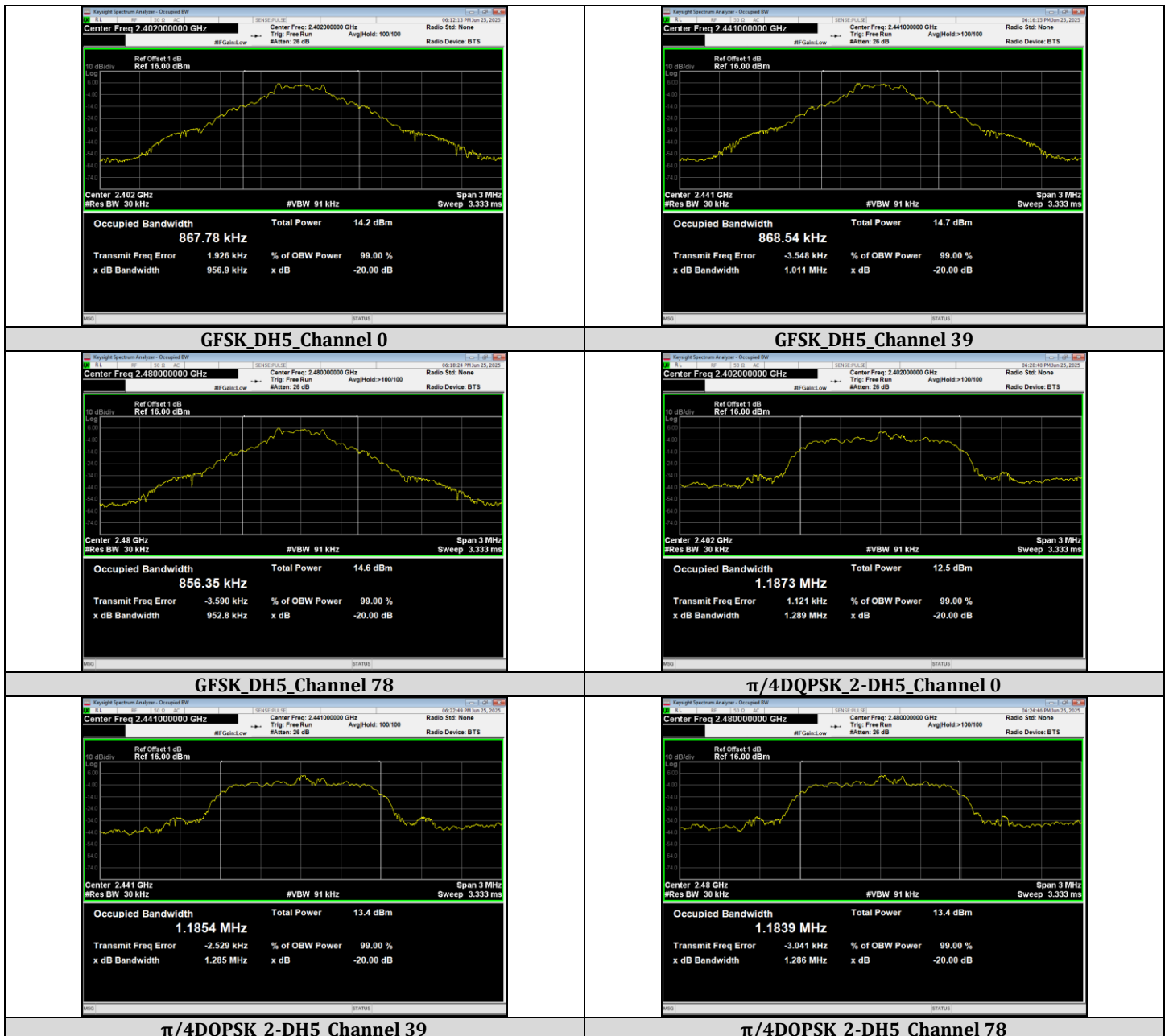
Peak Output Power 8DPSK_Channel 78

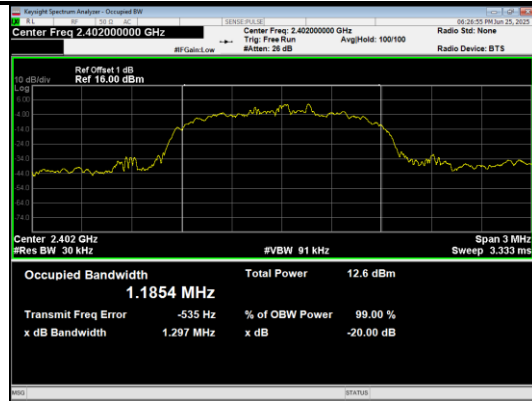
20dB Bandwidth

Test Result

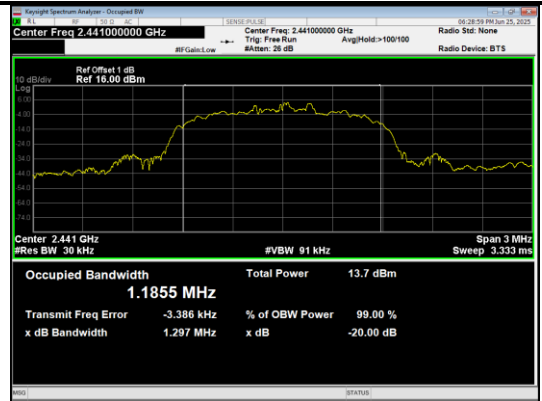
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9569
	39	2441 MHz	1.011
	78	2480 MHz	0.9528
$\pi/4$ DQPSK	0	2402 MHz	1.289
	39	2441 MHz	1.285
	78	2480 MHz	1.286
8DPSK	0	2402 MHz	1.297
	39	2441 MHz	1.297
	78	2480 MHz	1.298

Test Graphs

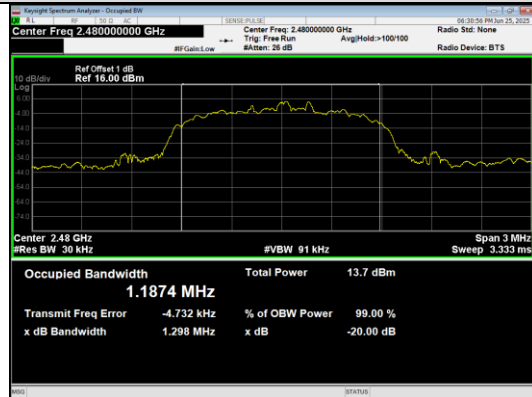




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



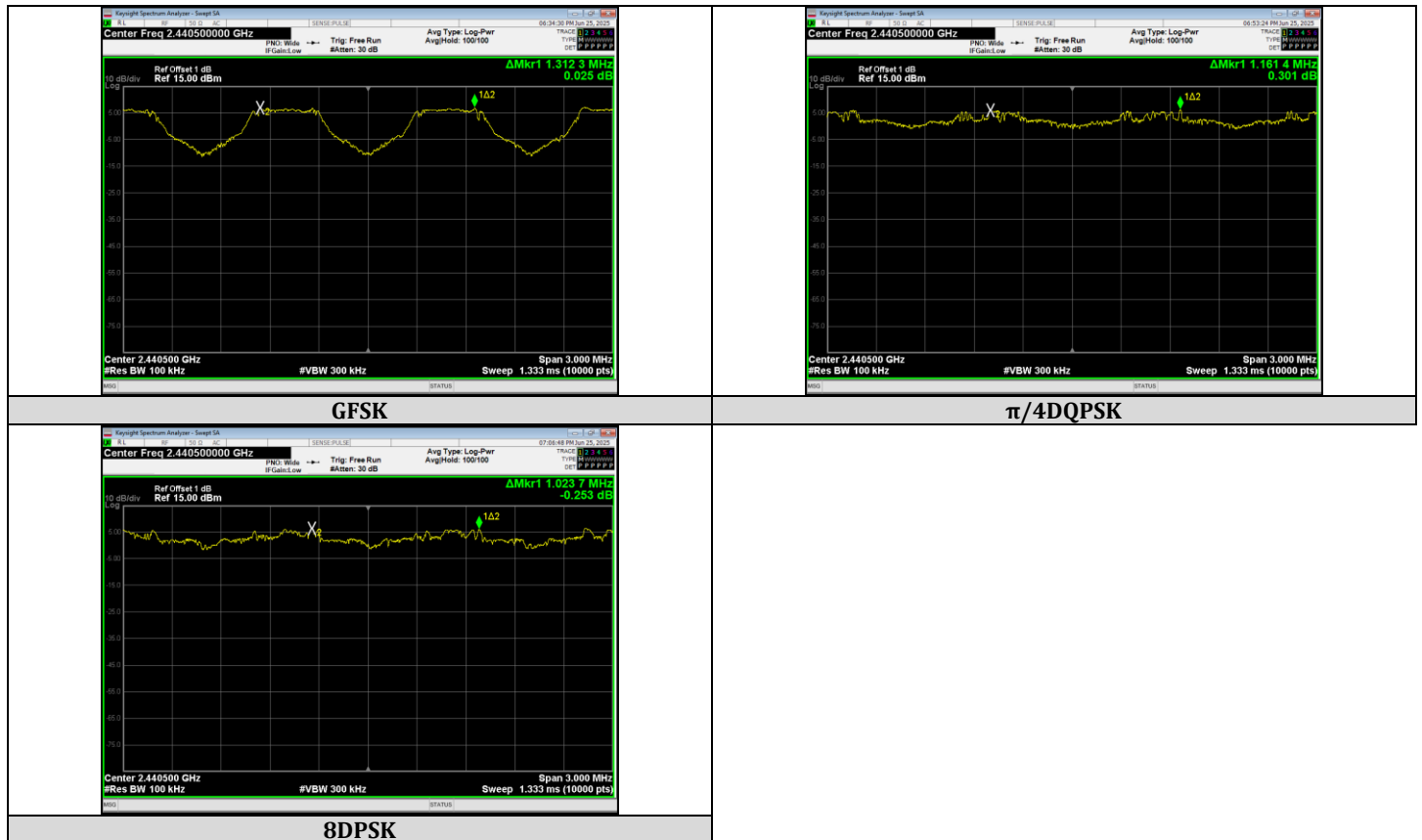
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8404	2441.1527	1.3123	0.674	PASS
$\pi/4$ DQPSK	2-DH5	2439.9994	2441.1608	1.1614	0.859	PASS
8DPSK	3-DH5	2440.1548	2441.1785	1.0237	0.865	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

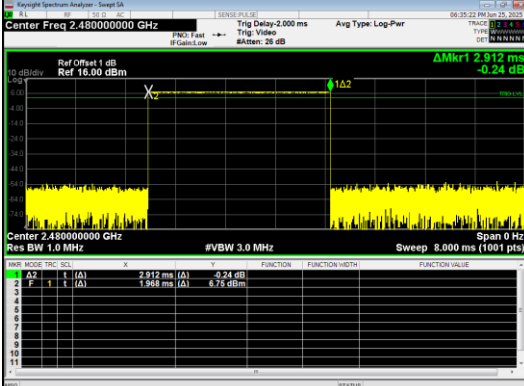
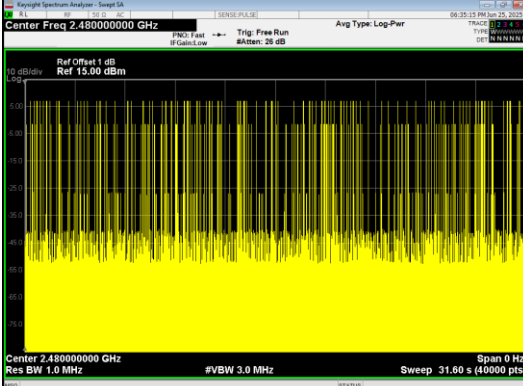
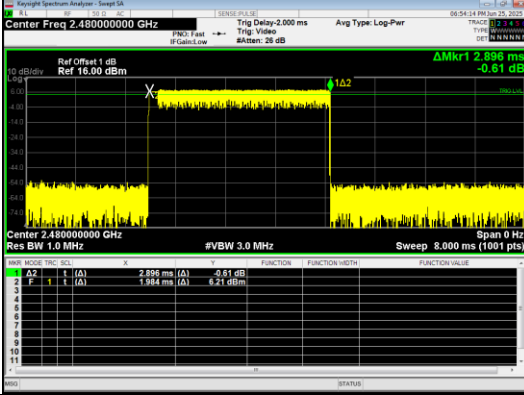
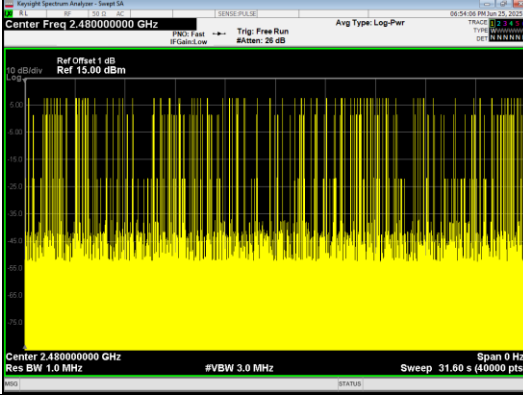
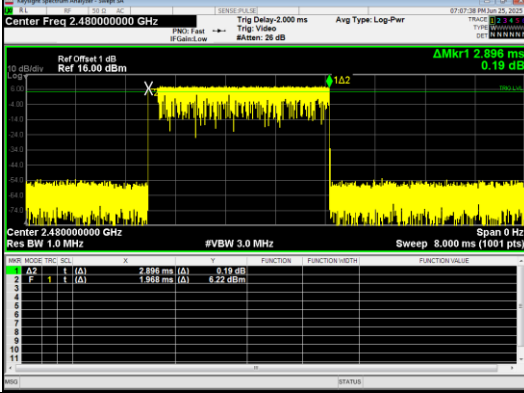
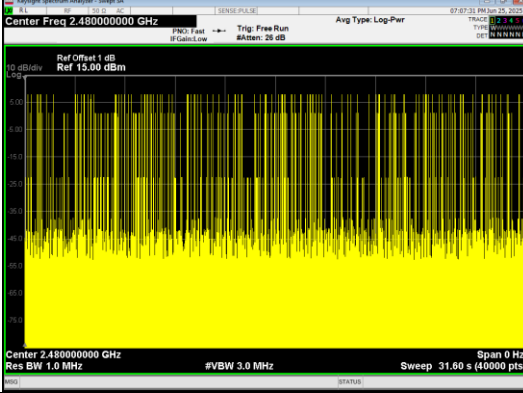


Dwell Time

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	112	326.14	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.896	105	304.08		PASS
8DPSK	3-DH5		2.896	114	330.14		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

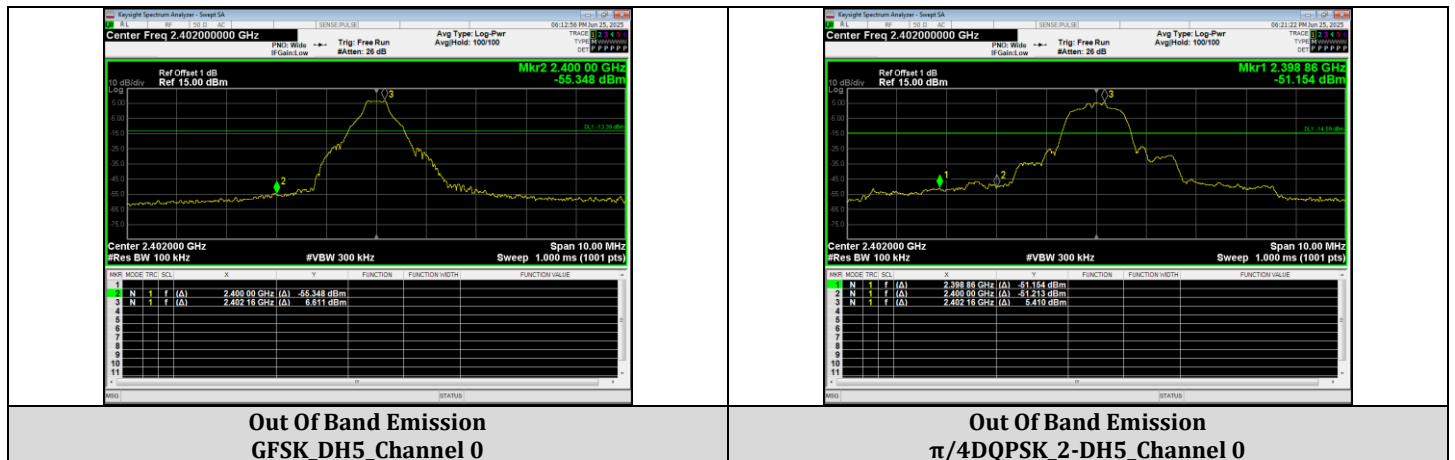
Non-Hopping

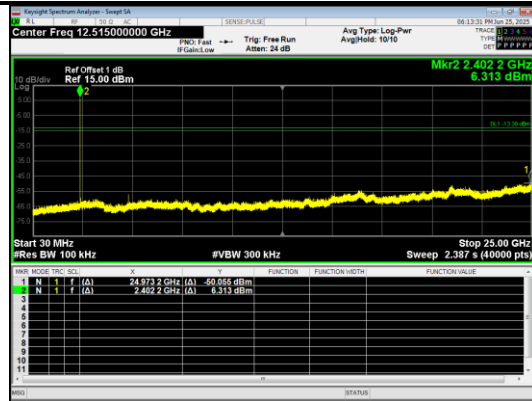
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-55.348	-13.39	-41.958	PASS
			24973.2	-50.054	-13.39	-36.664	PASS
		39	24900.7	-48.714	-12.96	-35.754	PASS
		78	2483.50	-58.645	-13.11	-45.535	PASS
$\pi/4$ DQPSK	2-DH5		24983.1	-49.078	-13.11	-35.968	PASS
	0	2398.86	-51.154	-14.59	-36.564	PASS	
		2400.00	-51.213	-14.59	-36.623	PASS	
		24883.3	-49.158	-14.59	-34.568	PASS	
	39	24970.0	-49.325	-13.75	-35.575	PASS	
	78	2483.50	-55.709	-13.84	-41.869	PASS	
8DPSK		3-DH5		24904.5	-50.104	-13.84	-36.264
	0	2400.00	-50.279	-14.79	-35.489	PASS	
		24337.0	-50.125	-14.79	-35.335	PASS	
	39	24242.1	-49.742	-13.66	-36.082	PASS	
	78	2483.50	-55.107	-13.74	-41.367	PASS	
		24914.5	-49.443	-13.74	-35.703	PASS	

Hopping

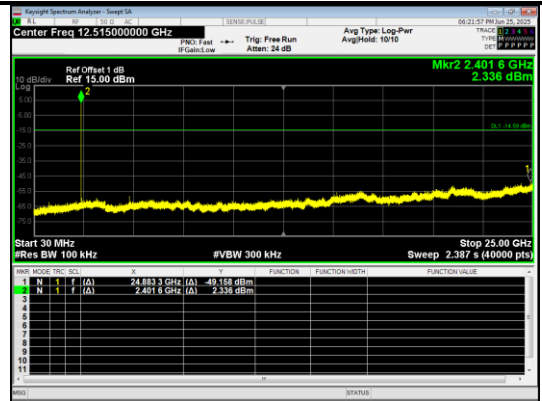
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-55.221	-12.51	-42.711	PASS
			2483.50	-60.312	-13.06	-47.252	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-51.202	-13.6	-37.602	PASS
			2483.50	-58.239	-13.86	-44.379	PASS
8DPSK	3-DH5		2398.62	-50.884	-13.58	-37.304	PASS
			2400.00	-51.058	-13.58	-37.478	PASS
			2483.50	-55.239	-13.77	-41.469	PASS

Test Graphs

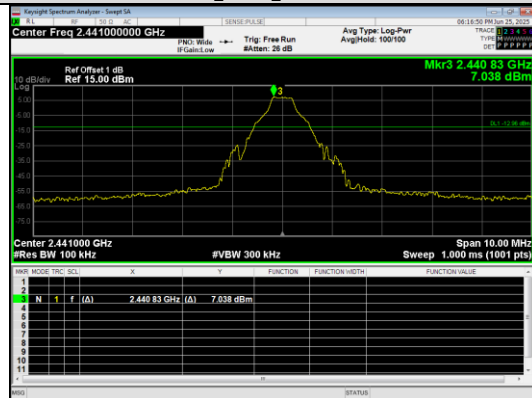




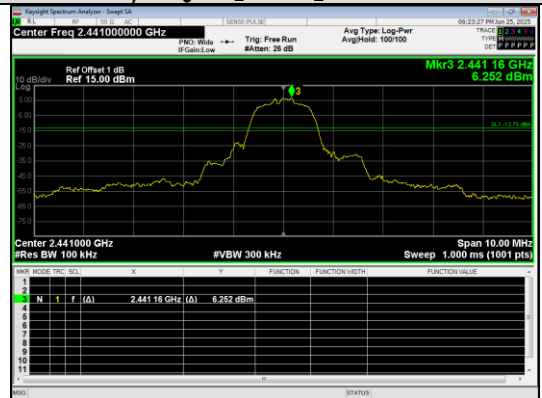
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



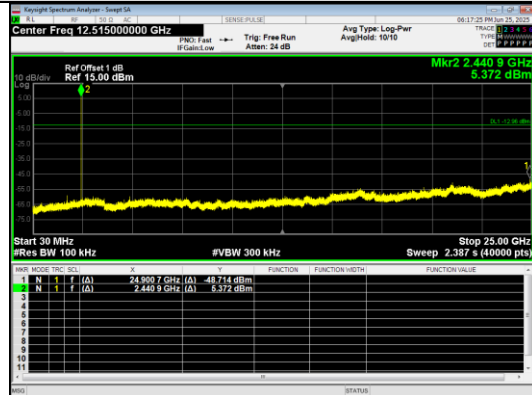
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



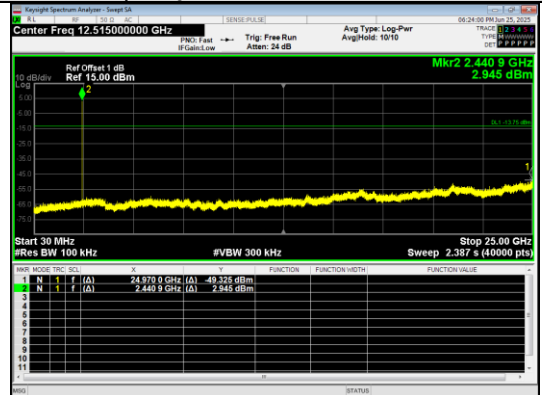
Out Of Band Emission
GFSK_DH5_Channel 39



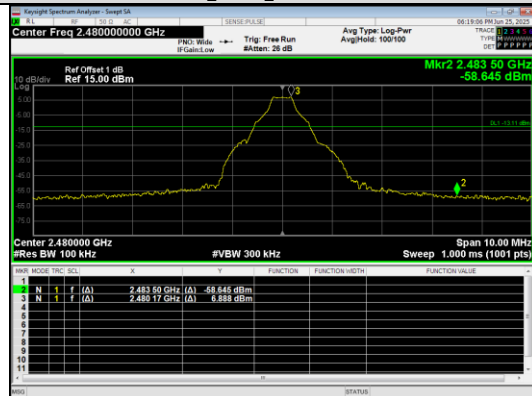
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39

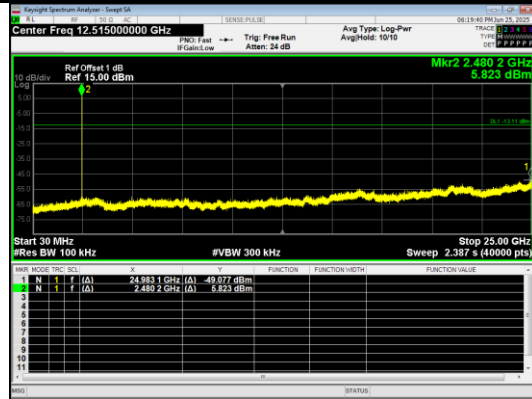


30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39

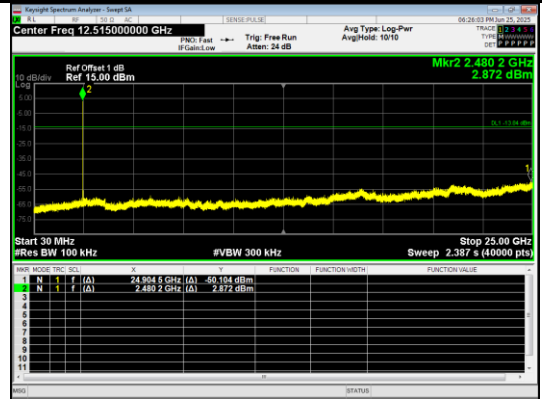


Out Of Band Emission
GFSK_DH5_Channel 78

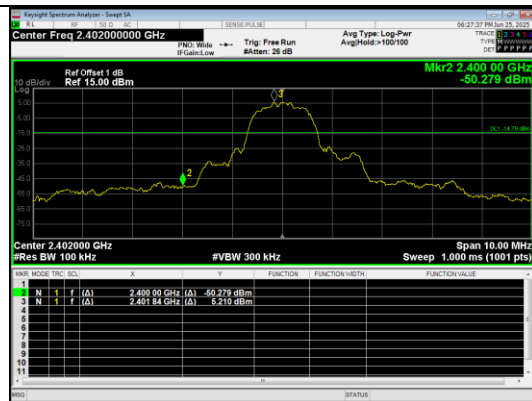




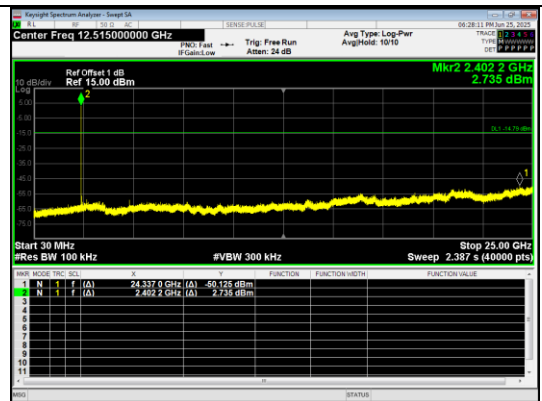
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



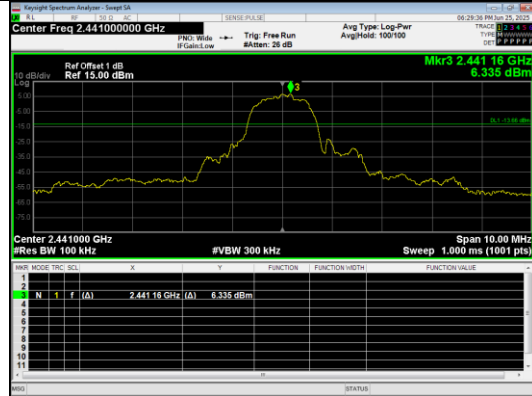
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



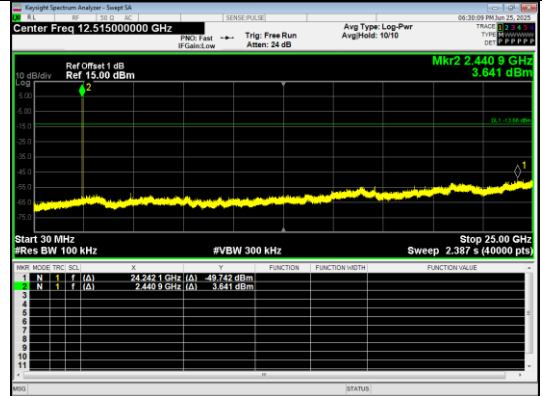
Out Of Band Emission
8DPSK_3-DH5_Channel 0



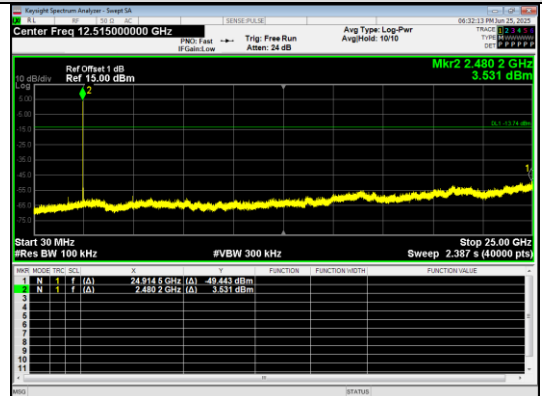
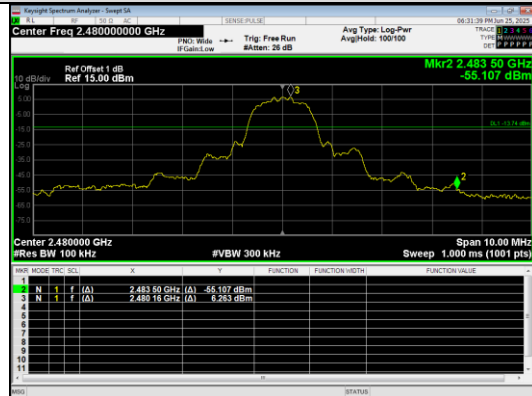
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0

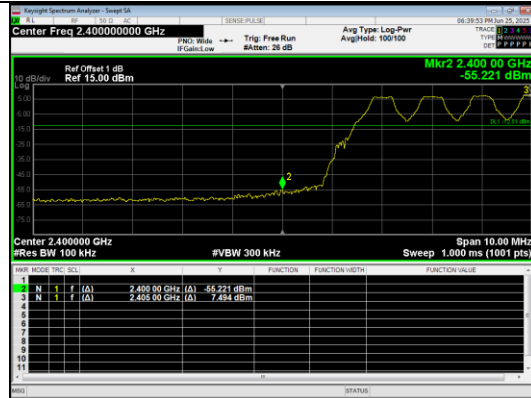
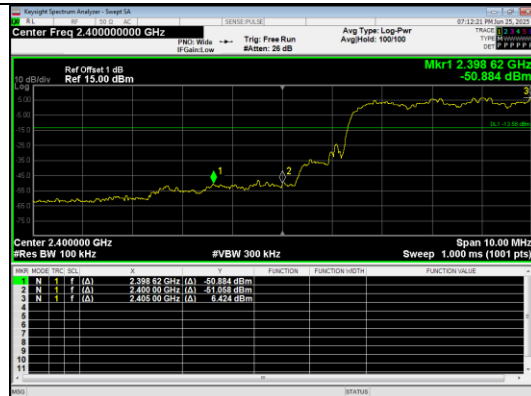


Out Of Band Emission
8DPSK_3-DH5_Channel 39



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 *****