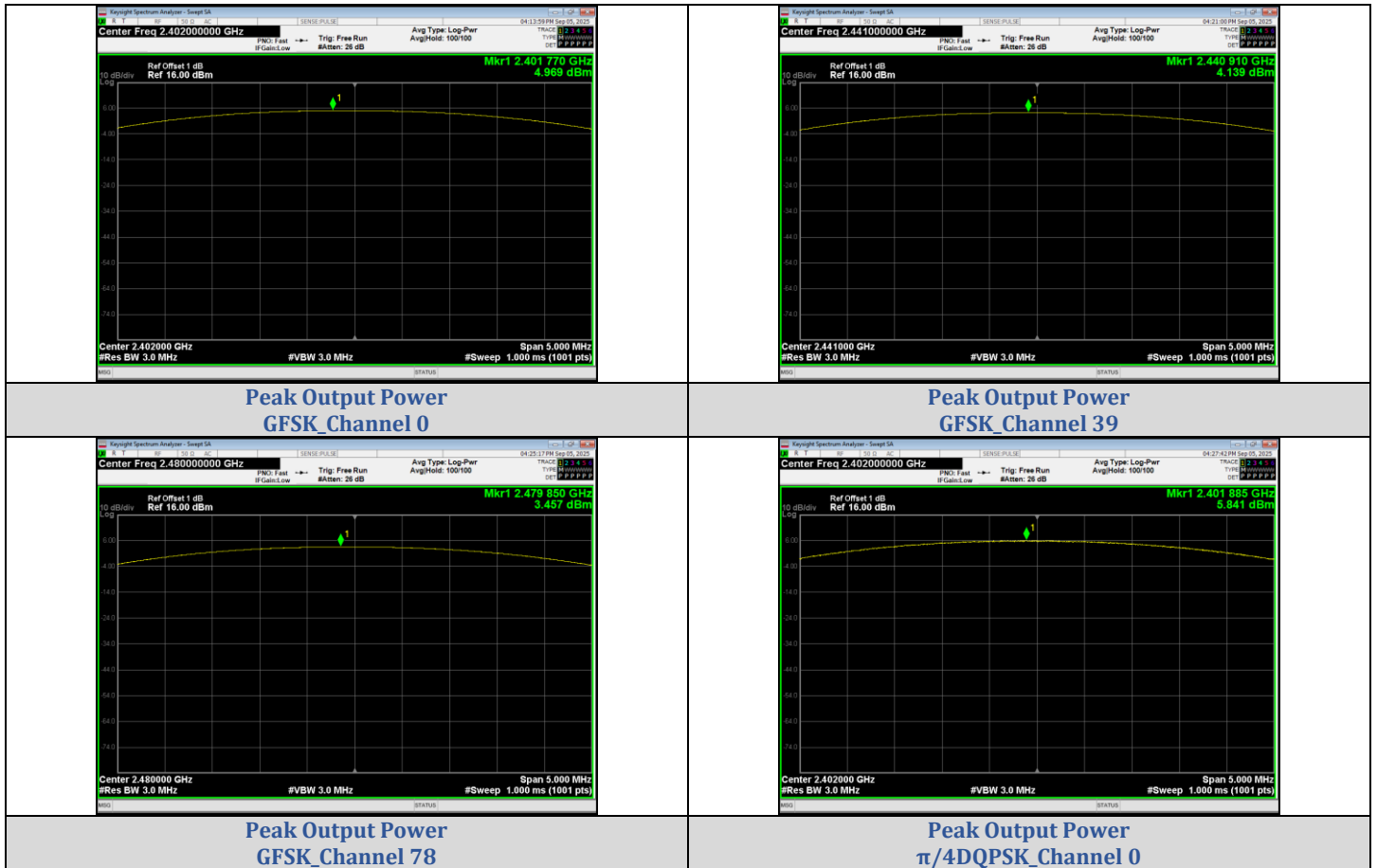


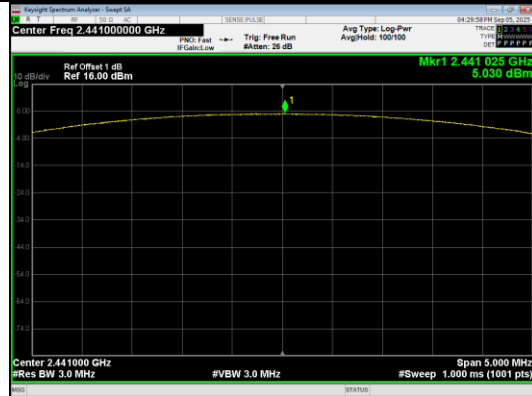
Conducted Output Power

Test Result

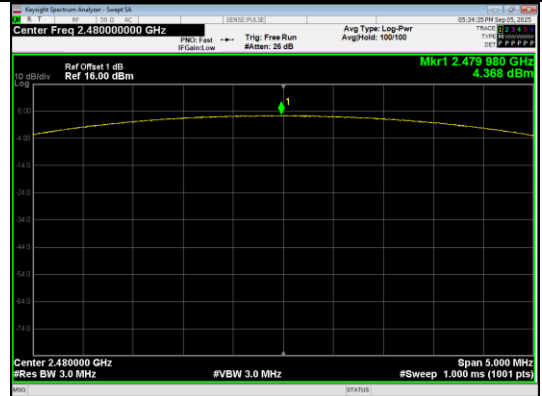
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	4.97	3.14	4.82	≤30	PASS
		39	4.14	2.59	3.93		PASS
		78	3.46	2.22	3.23		PASS
$\pi/4$ DQPSK	2-DH5	0	5.84	3.84	3.21	≤20.97	PASS
		39	5.03	3.18	2.38		PASS
		78	4.37	2.74	1.67		PASS
8DPSK	3-DH5	0	6.29	4.26	3.27		PASS
		39	5.34	3.42	2.21		PASS
		78	4.95	3.13	1.86		PASS

Test Graphs

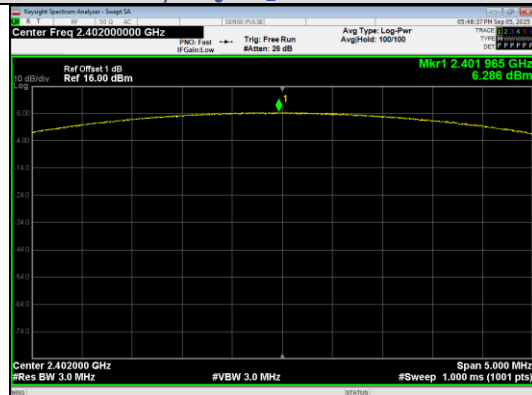




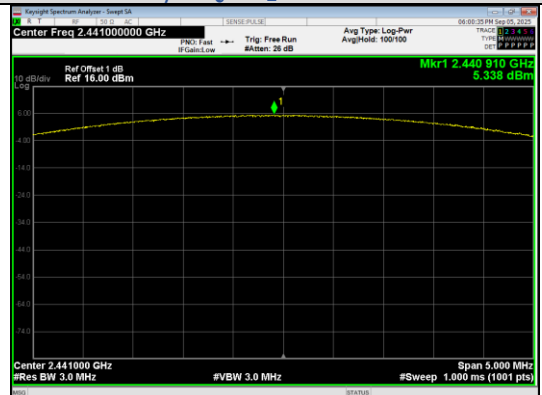
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



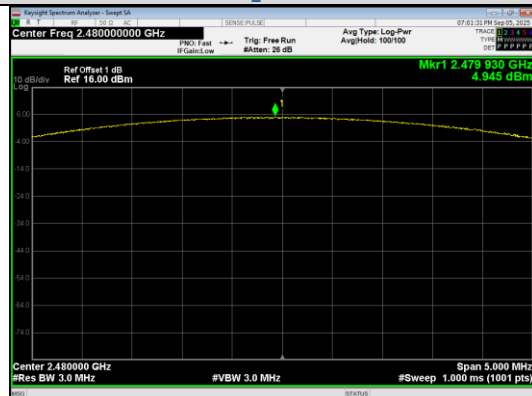
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



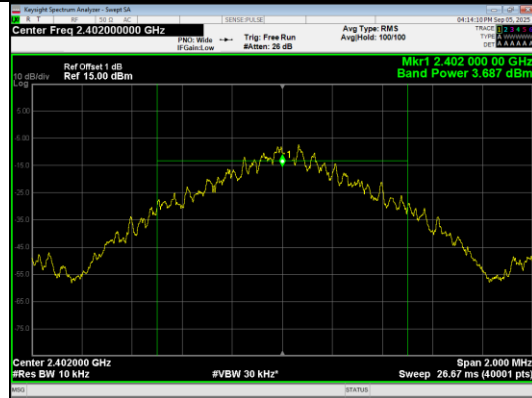
Peak Output Power
8DPSK_Channel 0



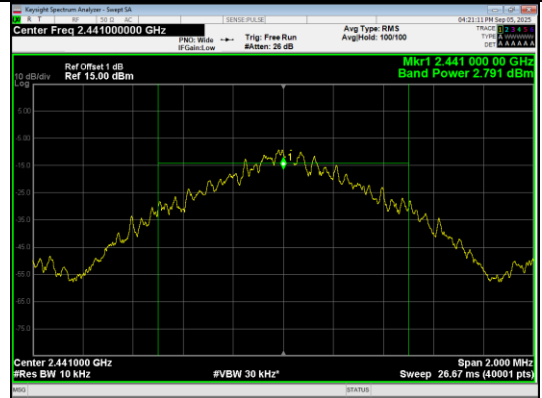
Peak Output Power
8DPSK_Channel 39



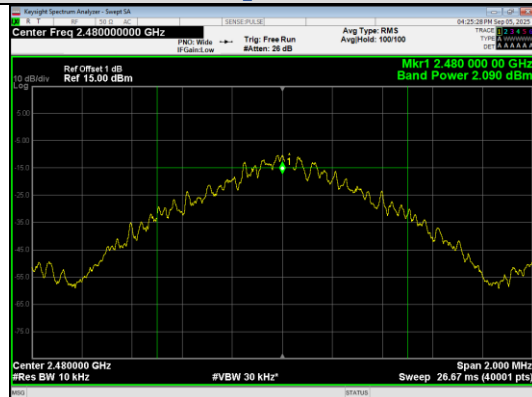
Peak Output Power
8DPSK_Channel 78



Average Output Power
GFSK_Channel 0



Average Output Power
GFSK_Channel 39



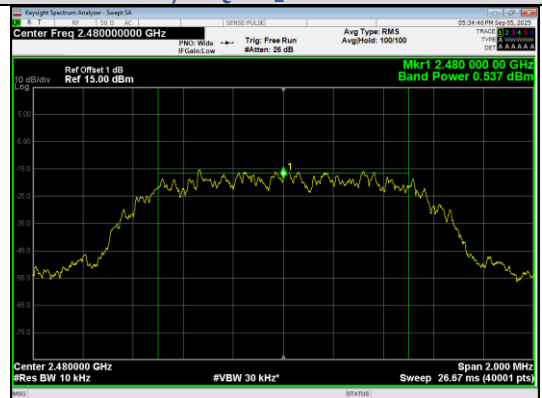
Average Output Power
GFSK_Channel 78



Average Output Power
 $\pi/4$ QPSK_Channel 0



Average Output Power
 $\pi/4$ QPSK_Channel 39



Average Output Power
 $\pi/4$ QPSK_Channel 78

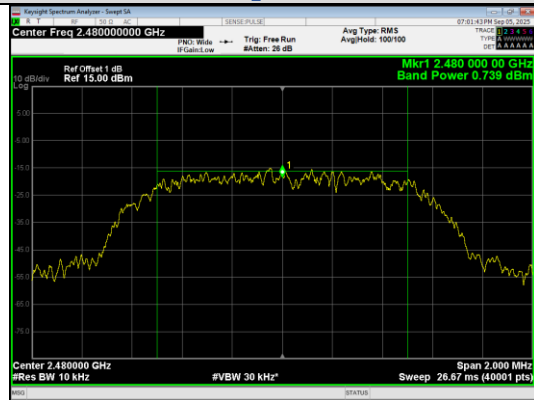


Average Output Power



Average Output Power

8DPSK_Channel 0



Average Output Power
8DPSK_Channel 78

8DPSK_Channel 39

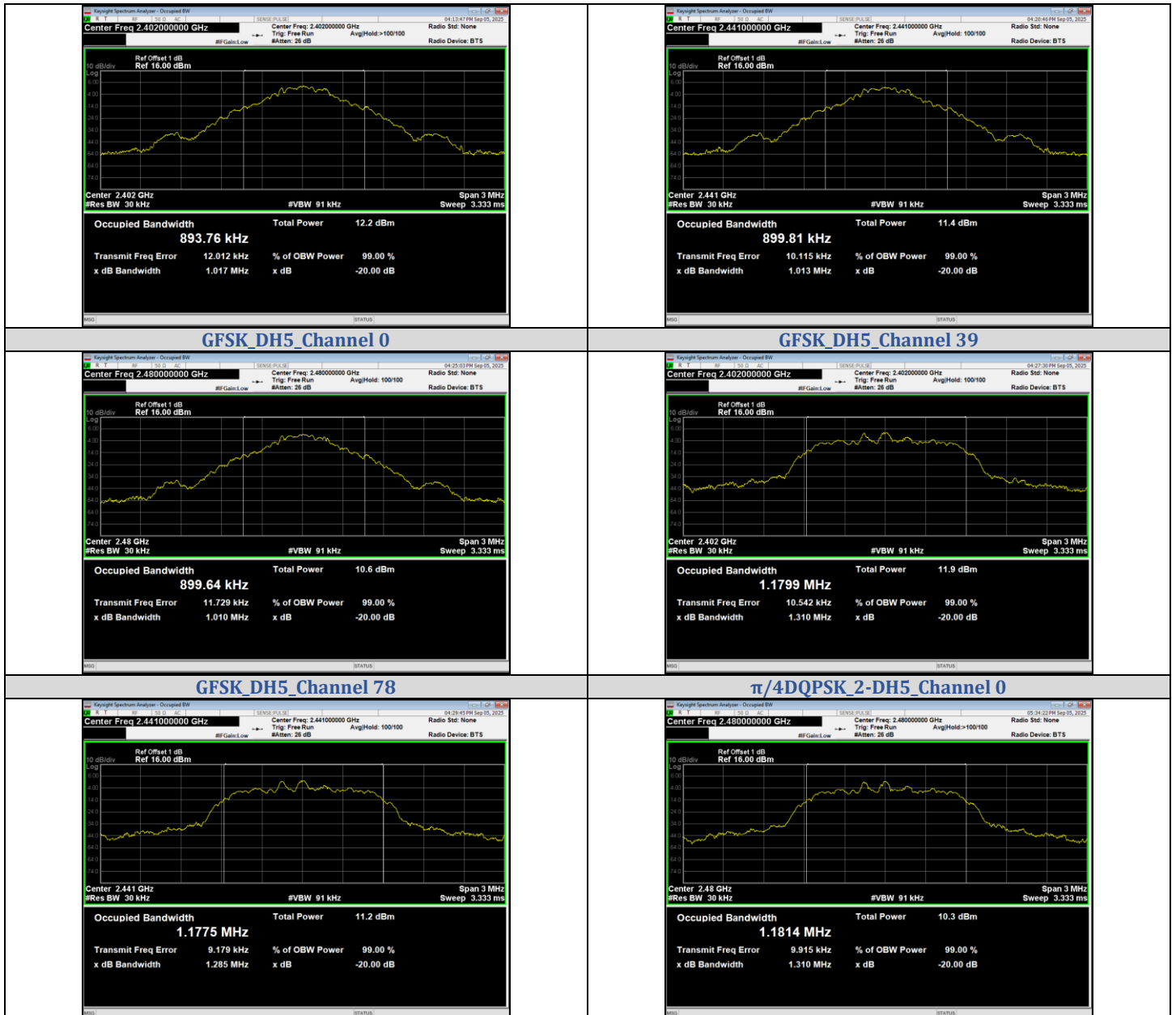


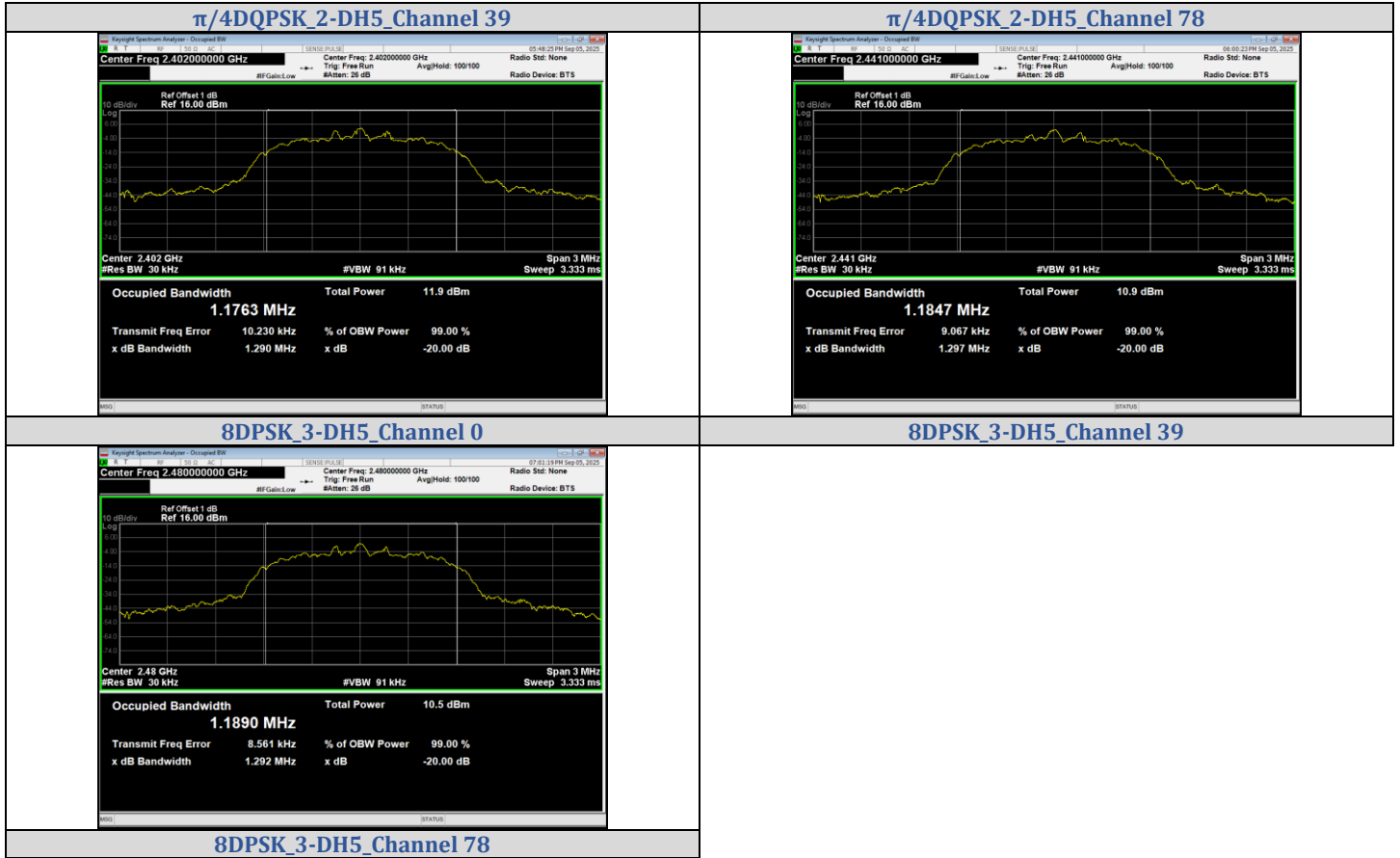
20dB Bandwidth

Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.020
	39	2441 MHz	1.010
	78	2480 MHz	1.010
$\pi/4$ DQPSK	0	2402 MHz	1.310
	39	2441 MHz	1.290
	78	2480 MHz	1.310
8DPSK	0	2402 MHz	1.290
	39	2441 MHz	1.300
	78	2480 MHz	1.290

Test Graphs



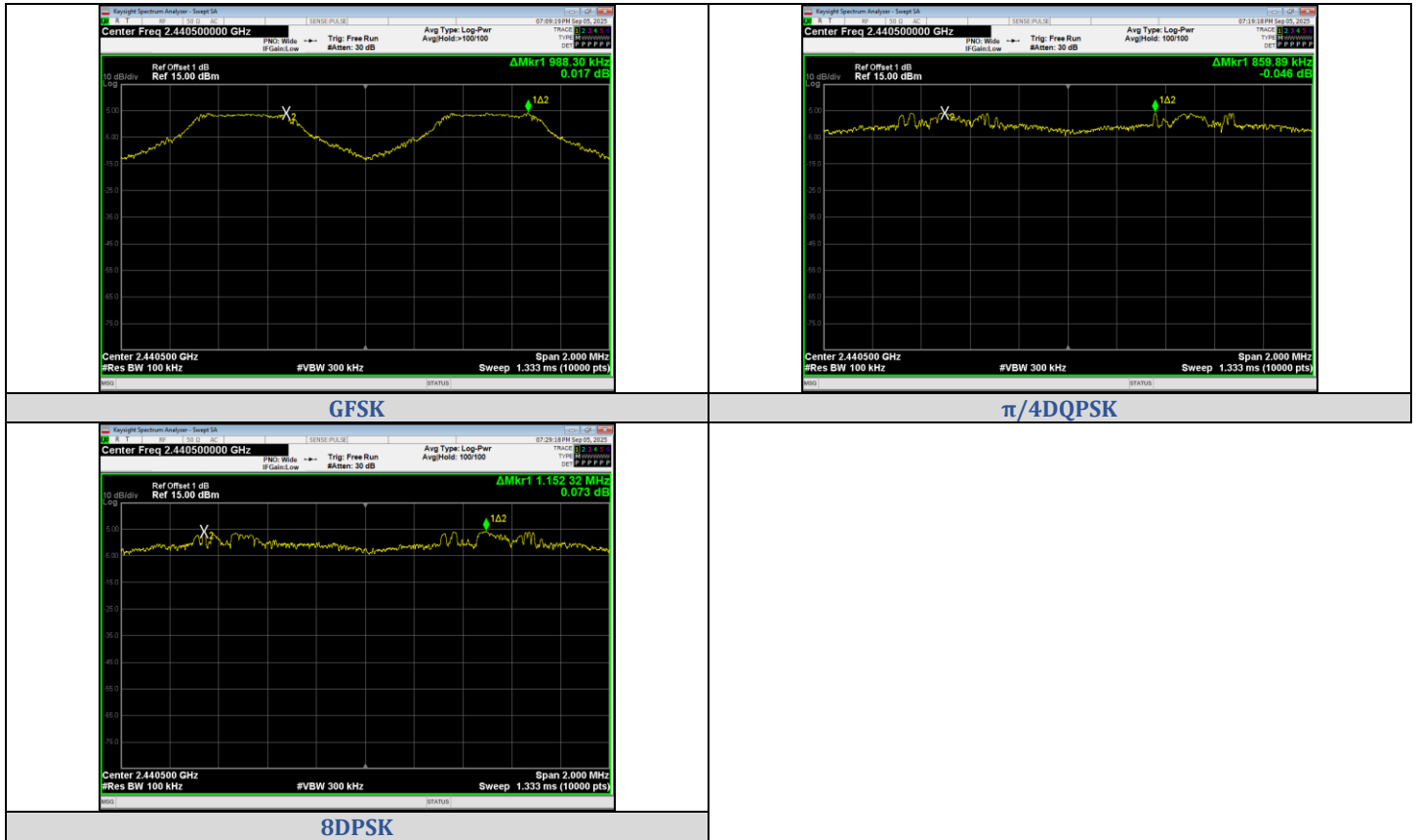


Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.1769	2441.1652	0.9883	0.99	PASS
$\pi/4$ DQPSK	2-DH5	2439.9963	2440.8561	0.8599	0.99	PASS
8DPSK	3-DH5	2439.8406	2440.9929	1.1523	0.99	PASS

Test Graphs



Conducted Out Of Band Emission

Test Result

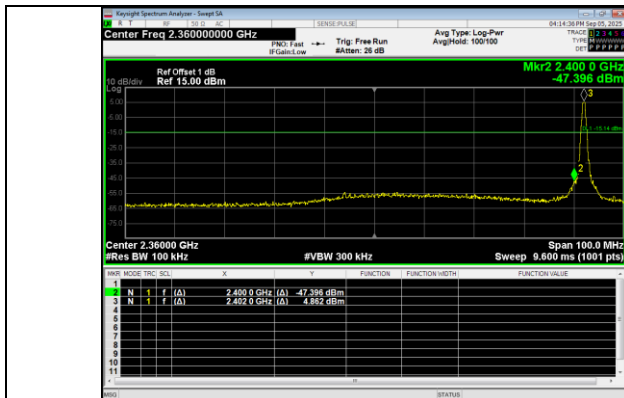
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2209.88	-44.546	-15.14	-29.406	PASS
			2400.00	-47.400	-15.14	-32.260	PASS
		39	2249.21	-42.301	-16.08	-26.221	PASS
		78	2287.91	-41.688	-16.63	-25.058	PASS
$\pi/4$ DQPSK	2-DH5	0	2209.88	-47.865	-15.15	-32.715	PASS
			2400.00	-44.240	-15.15	-29.090	PASS
		39	2248.58	-45.456	-15.92	-29.536	PASS
		78	2483.50	-58.630	-16.64	-41.990	PASS
8DPSK	3-DH5	0	2209.88	-47.445	-15.25	-32.195	PASS
			2400.00	-45.580	-15.25	-30.330	PASS
		39	2249.21	-44.359	-16.03	-28.329	PASS
		78	2483.50	-59.110	-16.43	-42.680	PASS
			9919.99	-40.728	-16.43	-24.298	PASS

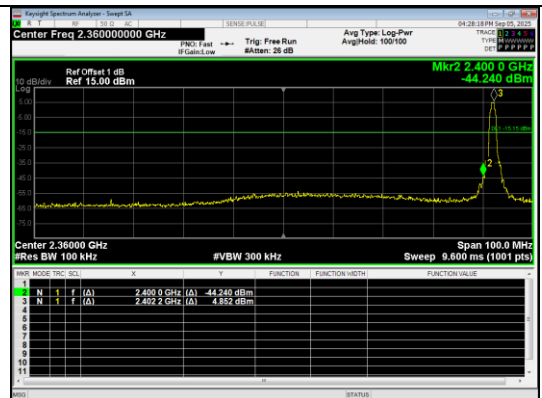
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2356.00	-52.925	-14.92	-38.005	PASS
			2400.00	-53.470	-14.92	-38.550	PASS
			2483.50	-57.230	-16.44	-40.790	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-48.320	-14.94	-33.380	PASS
			2483.50	-57.420	-16.37	-41.050	PASS
8DPSK	3-DH5		2400.00	-49.940	-14.99	-34.950	PASS
			2483.50	-58.140	-16.27	-41.870	PASS

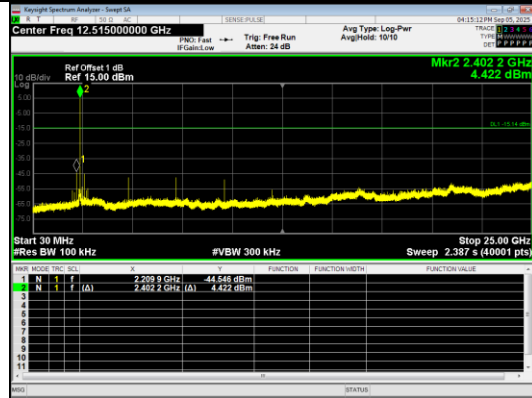
Test Graphs



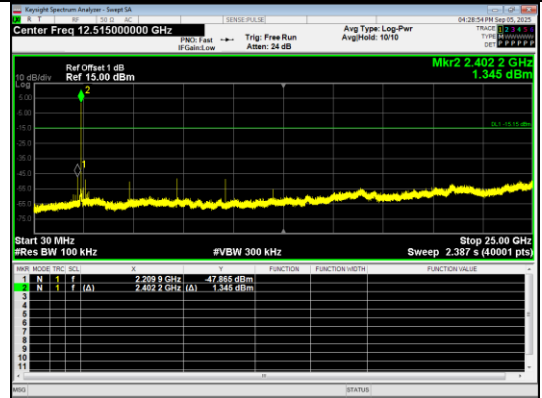
Out Of Band Emission
GFSK_DH5_Channel 0



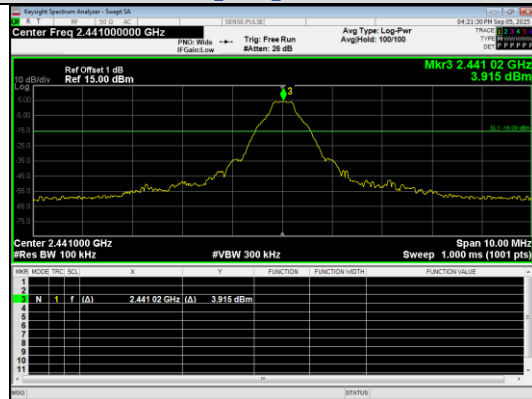
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



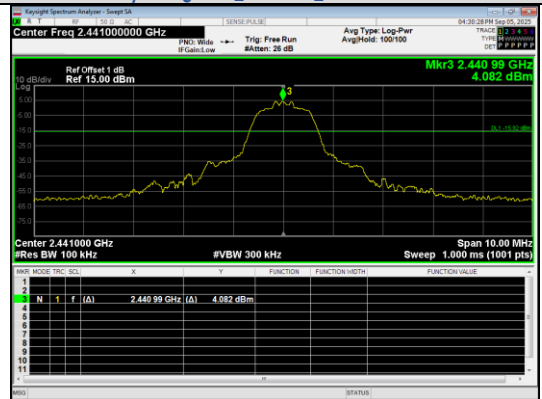
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



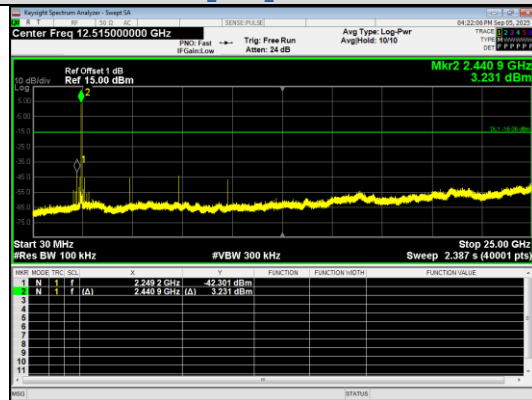
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



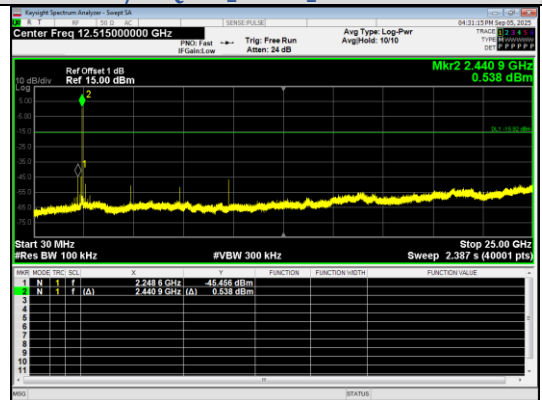
Out Of Band Emission
GFSK_DH5_Channel 39



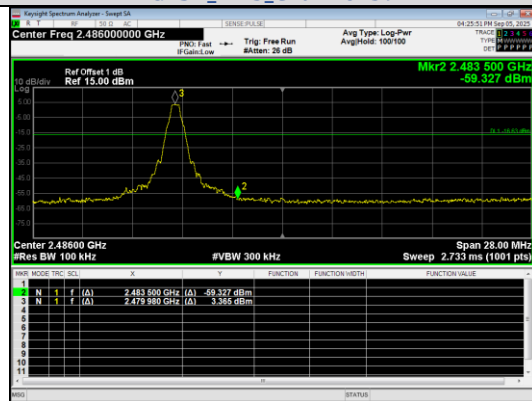
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



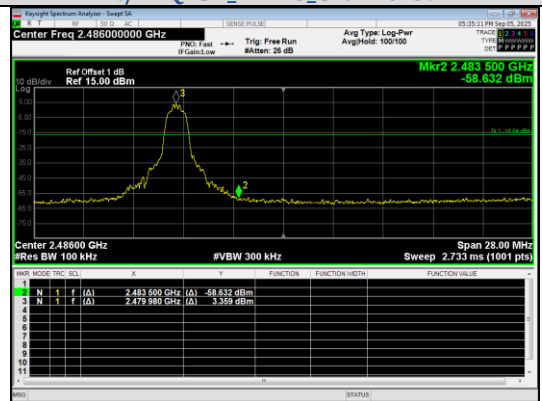
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



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

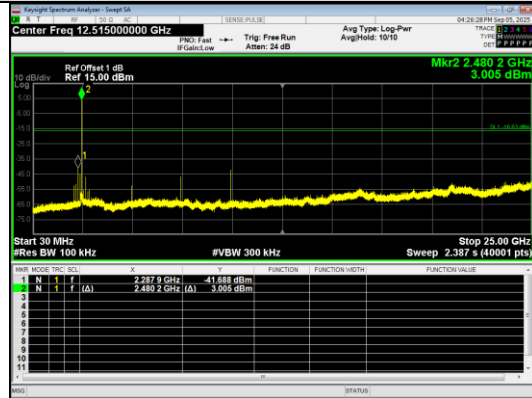


Out Of Band Emission



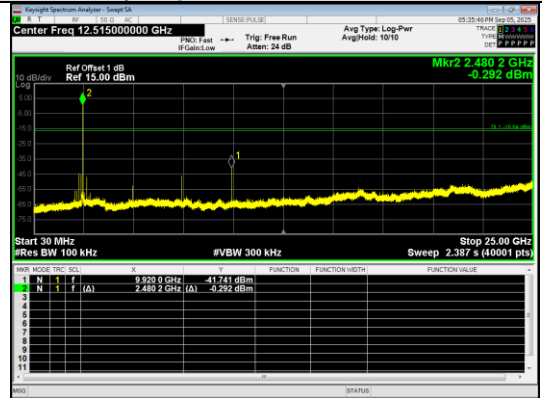
Out Of Band Emission

GFSK_DH5_Channel 78

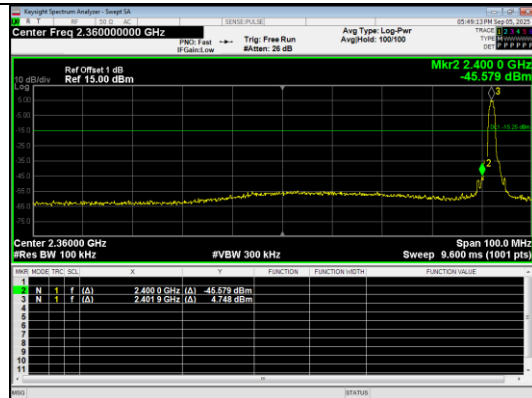


30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78

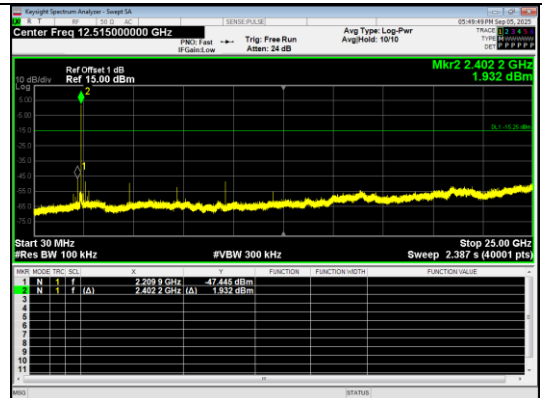
$\pi/4$ DQPSK_2-DH5_Channel 78



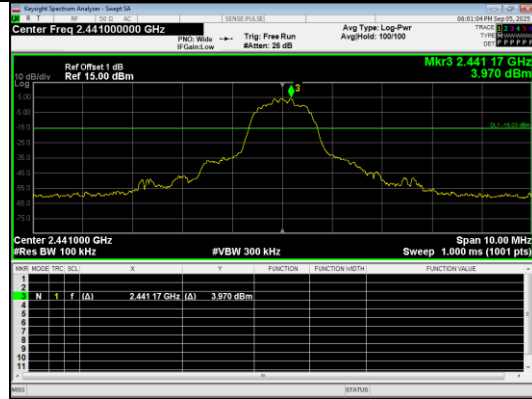
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



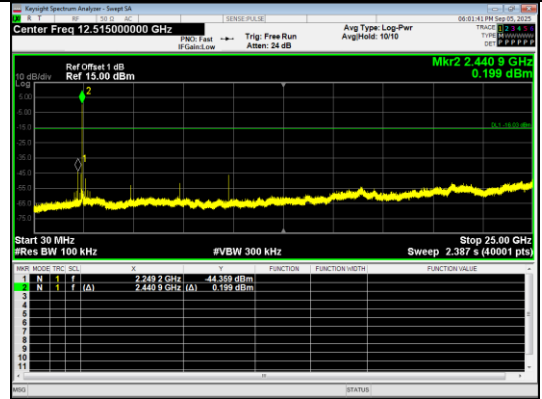
Out Of Band Emission
8DPSK_3-DH5_Channel 0



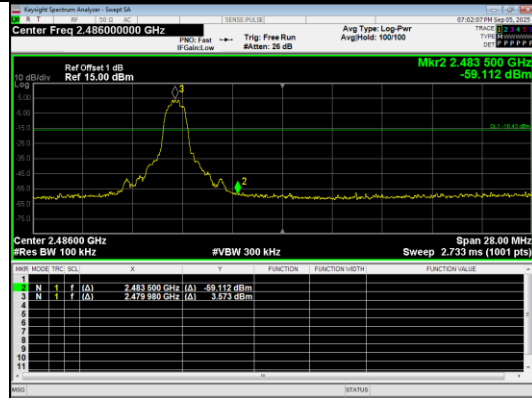
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



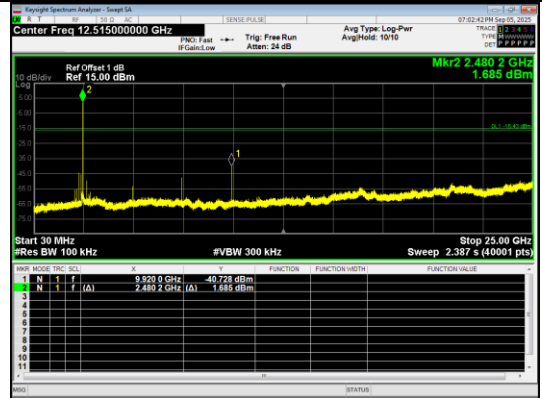
Out Of Band Emission
8DPSK_3-DH5_Channel 39



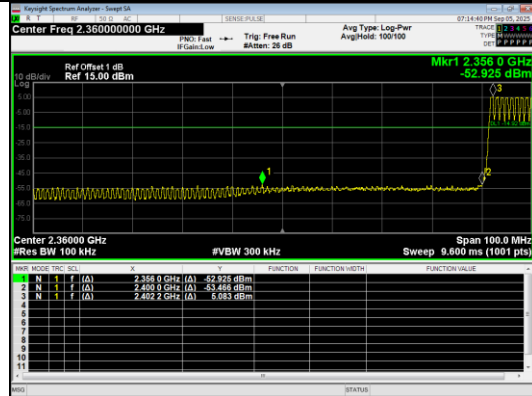
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



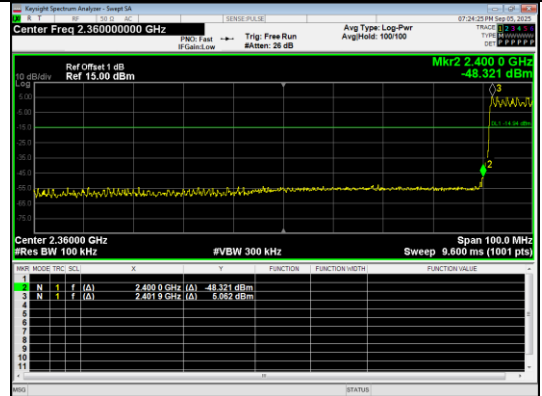
Out Of Band Emission
8DPSK_3-DH5_Channel 78



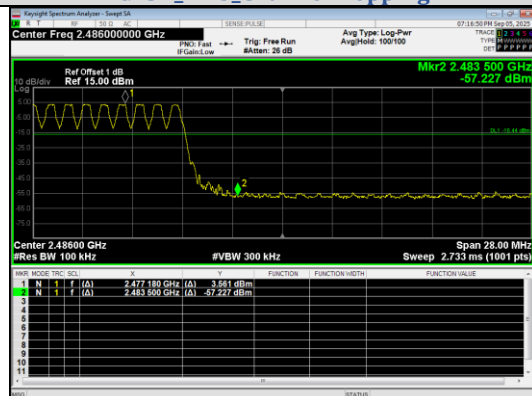
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78



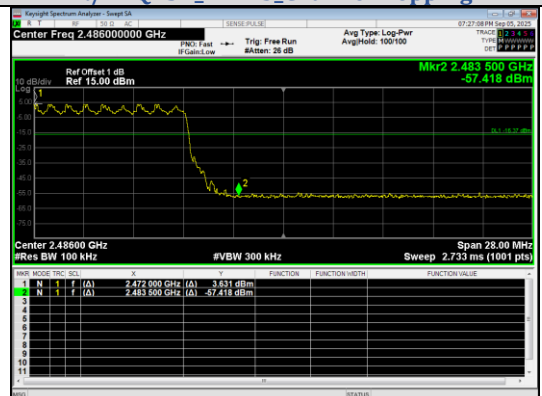
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



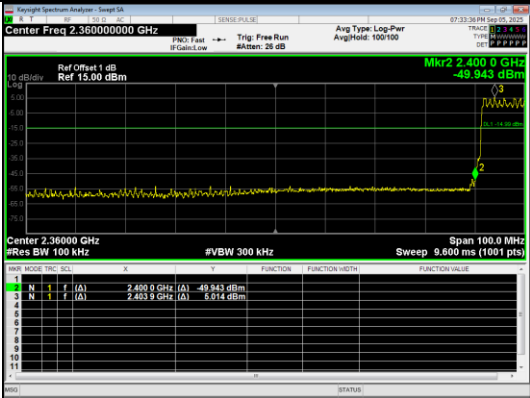
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



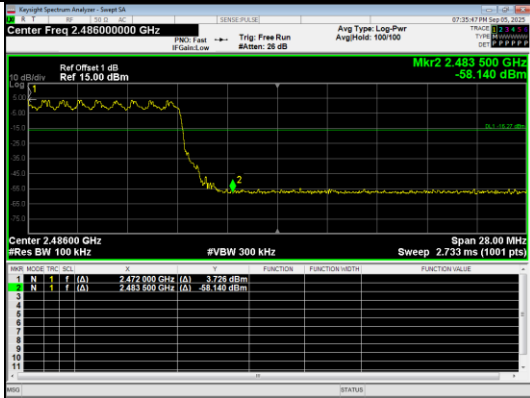
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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



Out Of Band Emission(Left)
8DPSK_3-DH5_Channel Hopping



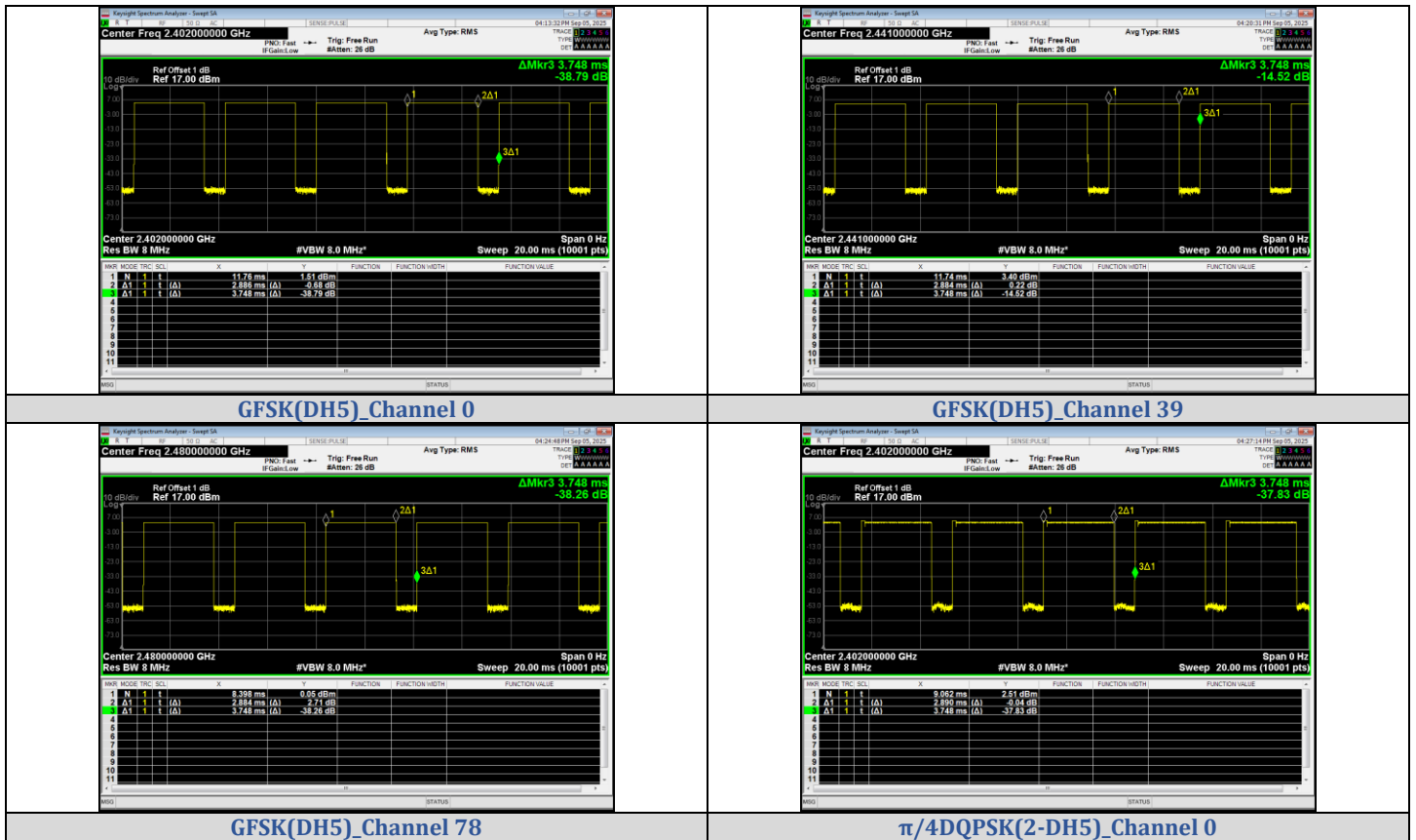
Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping

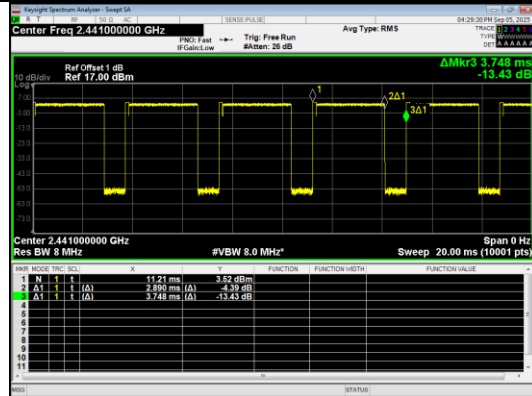
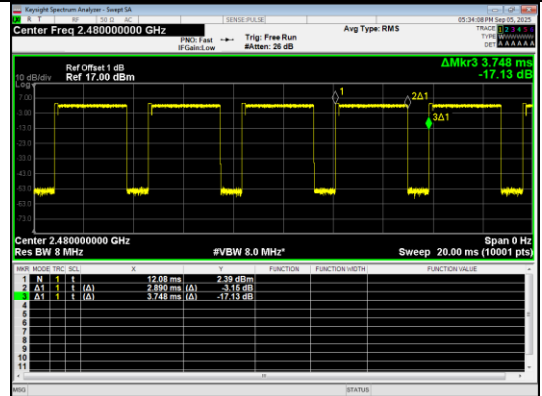
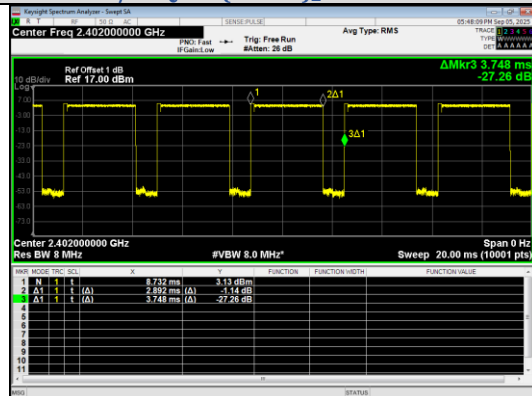
Duty Cycle

Test Result

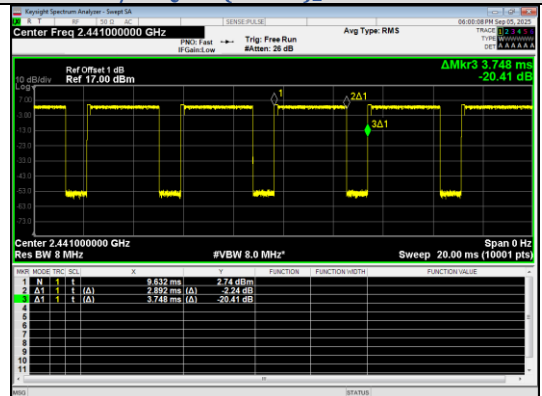
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.886	3.748	77.00	0.7700	1.1351	0.3465
		39	2.884	3.748	76.95	0.7695	1.1379	0.3467
		78	2.884	3.748	76.95	0.7695	1.1379	0.3467
$\pi/4$ DQPSK	2-DH5	0	2.890	3.748	77.11	0.7711	1.1289	0.3460
		39	2.890	3.748	77.11	0.7711	1.1289	0.3460
		78	2.890	3.748	77.11	0.7711	1.1289	0.3460
8DPSK	3-DH5	0	2.892	3.748	77.16	0.7716	1.1261	0.3458
		39	2.892	3.748	77.16	0.7716	1.1261	0.3458
		78	2.894	3.748	77.21	0.7721	1.1233	0.3455

Test Graphs

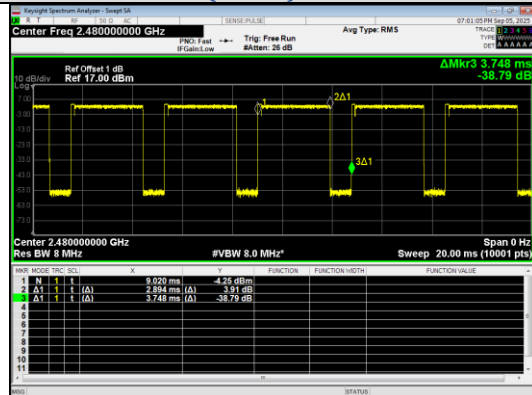



 $\pi/4$ DQPSK(2-DH5)_Channel 39

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


8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39



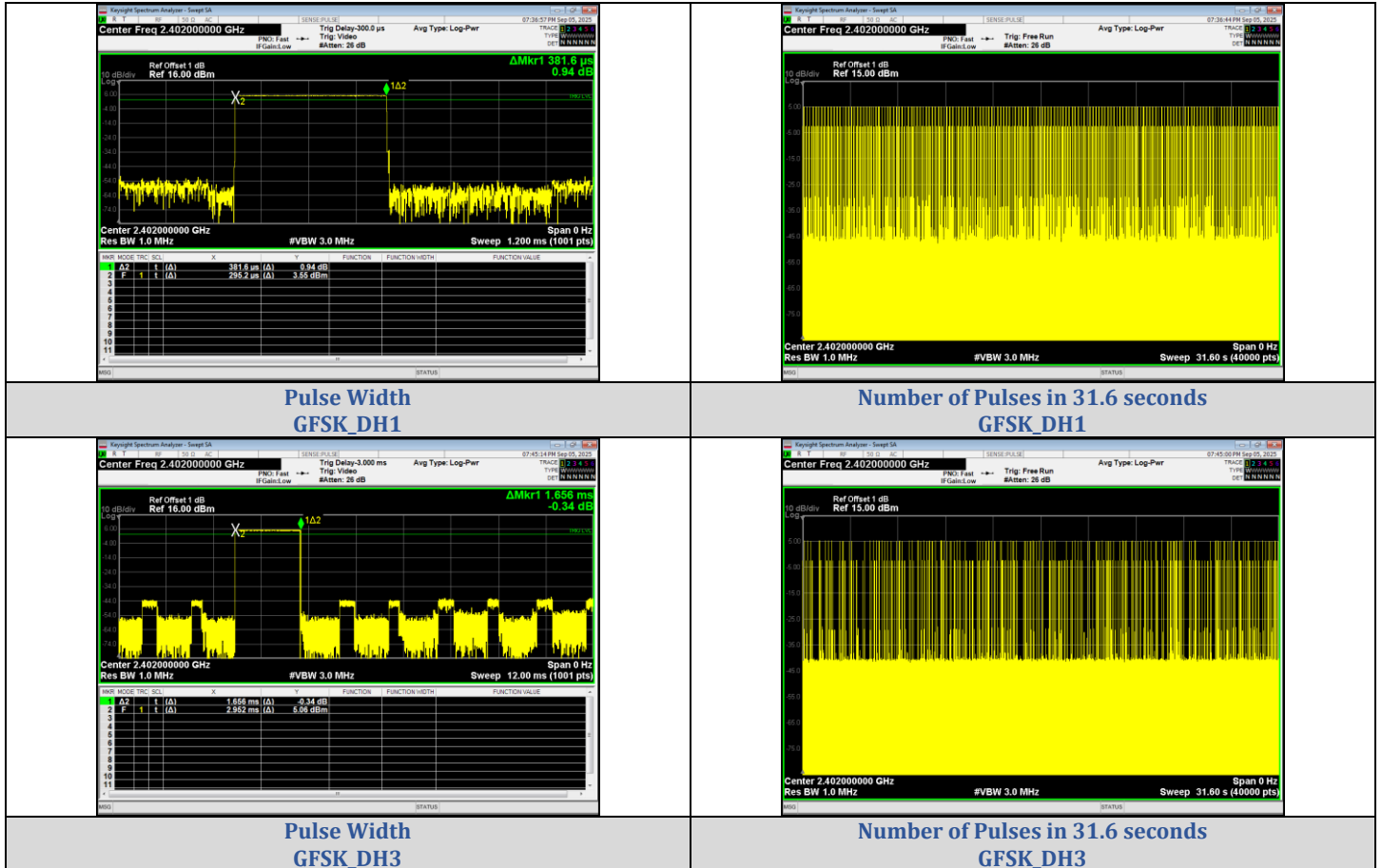
8DPSK(3-DH5)_Channel 78

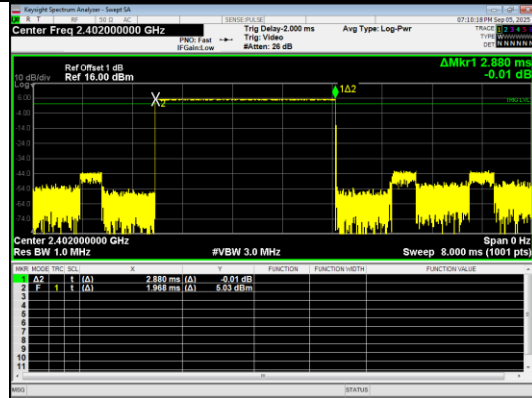
Dwell Time

Test Result

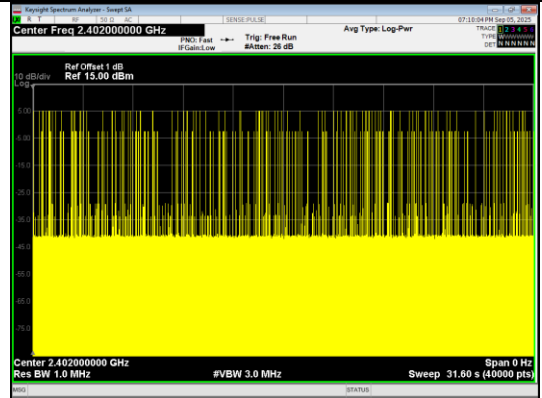
Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	Hopping	0.3816	314	119.82	< 400	PASS
	DH3		1.656	158	261.65		PASS
	DH5		2.880	102	293.76		PASS
$\pi/4$ DQPSK	2-DH1		0.3912	319	124.79		PASS
	2-DH3		1.632	165	269.28		PASS
	2-DH5		2.896	112	324.35		PASS
8DPSK	3-DH1		0.3912	318	124.4		PASS
	3-DH3		1.656	157	259.99		PASS
	3-DH5		2.896	98	283.81		PASS

Test Graphs

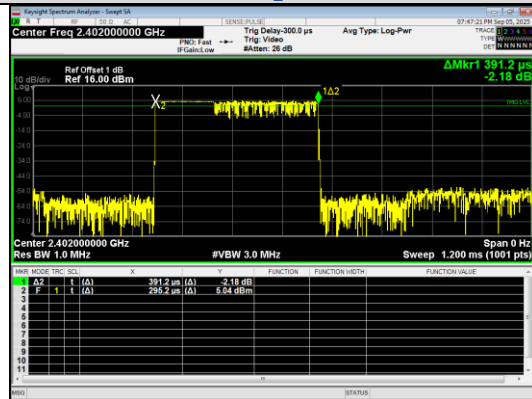




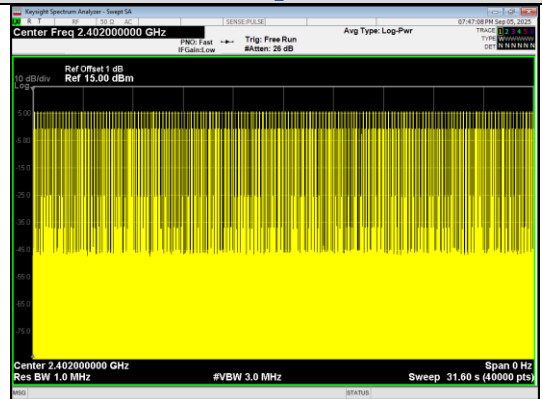
Pulse Width
GFSK_DH5



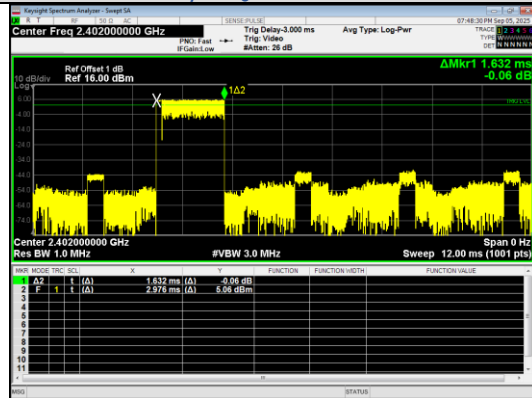
Number of Pulses in 31.6 seconds
GFSK_DH5



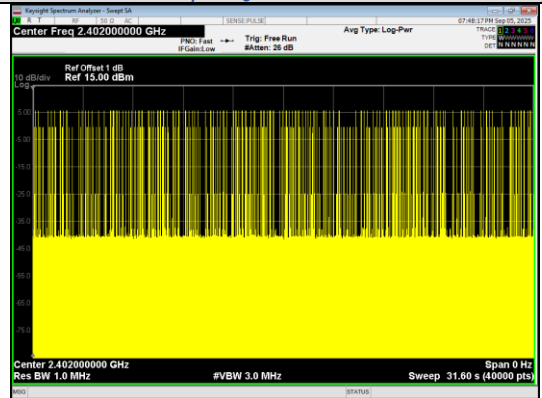
Pulse Width
 $\pi/4$ DQPSK_2-DH1



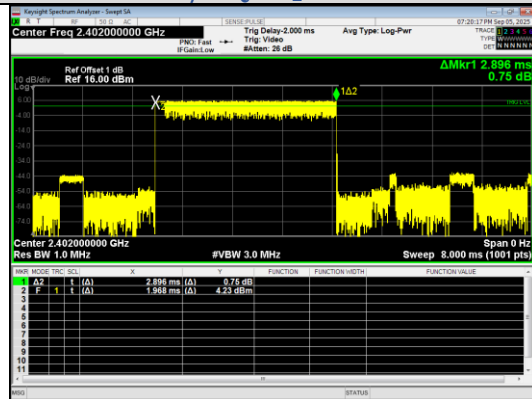
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH1



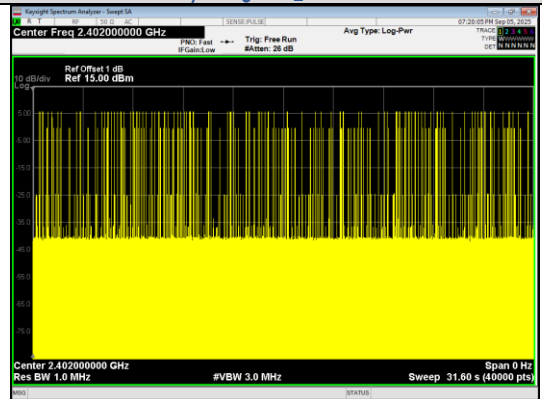
Pulse Width
 $\pi/4$ DQPSK_2-DH3



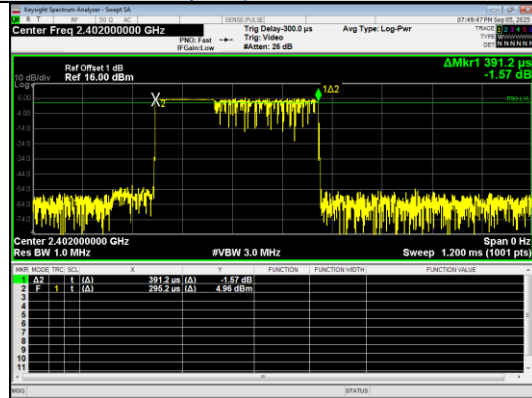
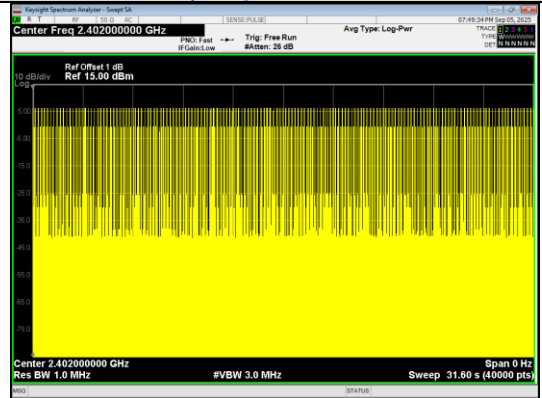
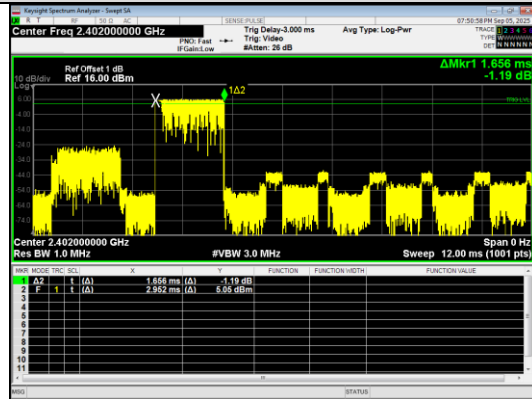
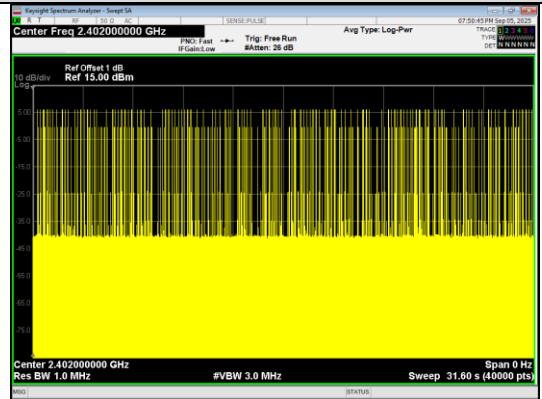
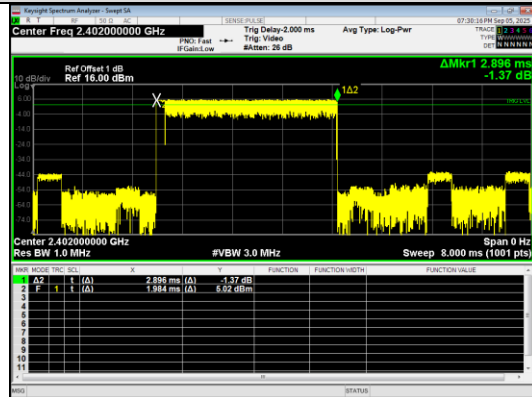
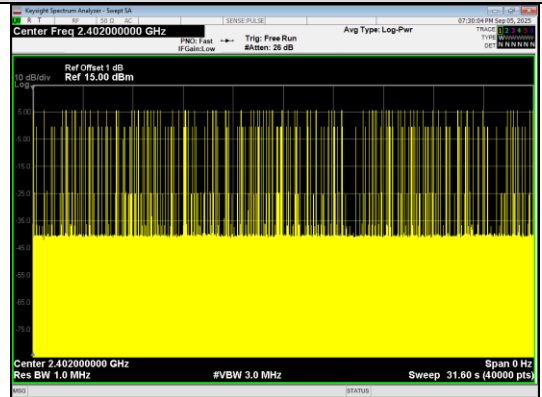
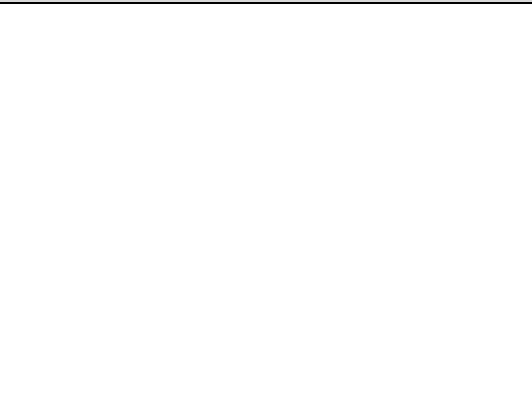
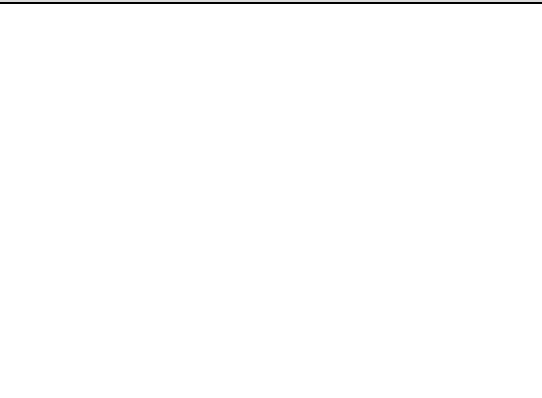
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH3



Pulse Width



Number of Pulses in 31.6 seconds

$\pi/4$ DQPSK_2-DH5

 $\pi/4$ 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


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

