

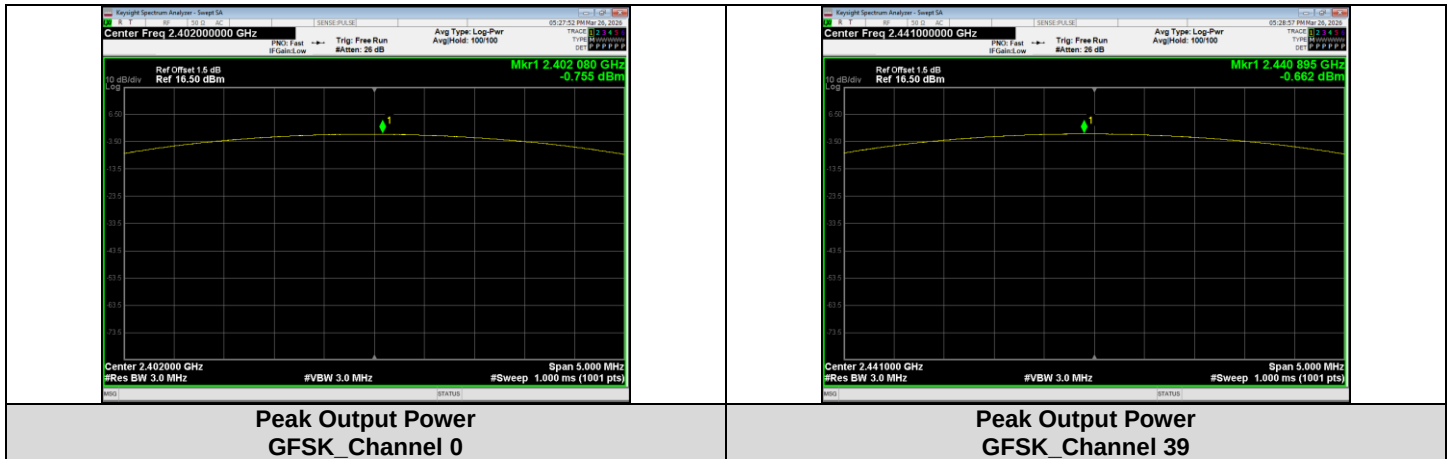
Conducted Output Power

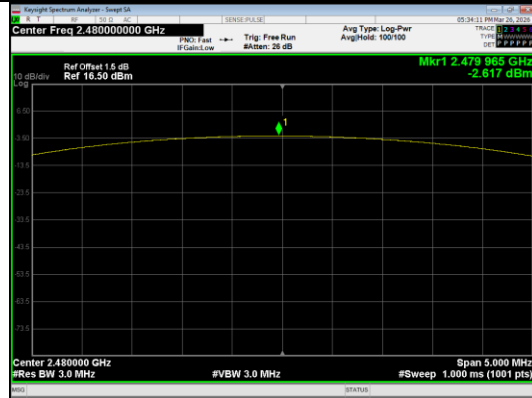
Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	-0.76	0.84	-1.04	≤30	PASS
		39	-0.66	0.86	-1.28		PASS
		78	-2.62	0.55	-2.59		PASS
$\pi/4$ DQPSK	2-DH5	0	-1.64	0.69	-4.34	≤20.97	PASS
		39	-1.29	0.74	-4.47		PASS
		78	-2.86	0.52	-6.12		PASS
8DPSK	3-DH5	0	-1.09	0.78	-4.40		PASS
		39	-1.27	0.75	-4.59		PASS
		78	-3.00	0.50	-6.25		PASS

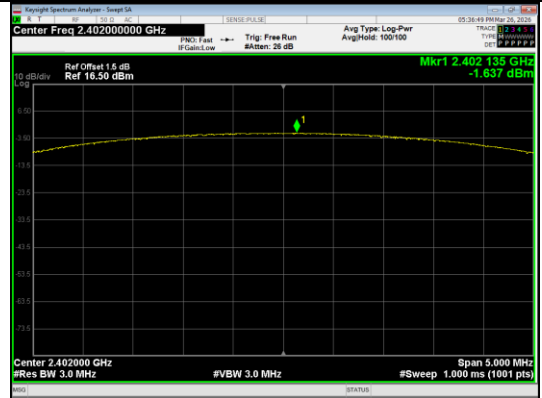
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	ISED EIRP (dBm)	ISED EIRP Limit (dBm)	Max. Avg. Power (dBm)	Result
GFSK	DH5	0	-0.76	≤30	1.530	≤36.02	-1.04	PASS
		39	-0.66	≤30	1.630	≤36.02	-1.28	PASS
		78	-2.62	≤30	-0.330	≤36.02	-2.59	PASS
$\pi/4$ DQPSK	2-DH5	0	-1.64	≤20.97	0.650	≤36.02	-4.34	PASS
		39	-1.29	≤20.97	1.000	≤36.02	-4.47	PASS
		78	-2.86	≤20.97	-0.570	≤36.02	-6.12	PASS
8DPSK	3-DH5	0	-1.09	≤20.97	1.200	≤36.02	-4.40	PASS
		39	-1.27	≤20.97	1.020	≤36.02	-4.59	PASS
		78	-3.00	≤20.97	-0.710	≤36.02	-6.25	PASS

Test Graphs

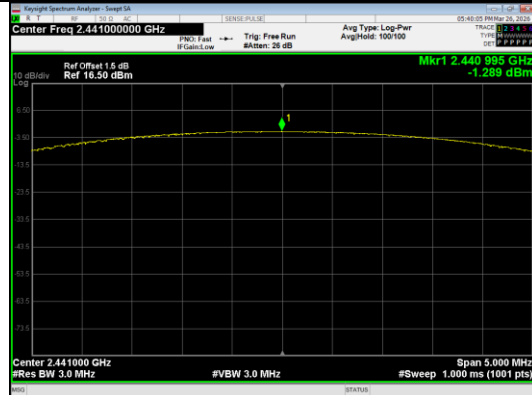




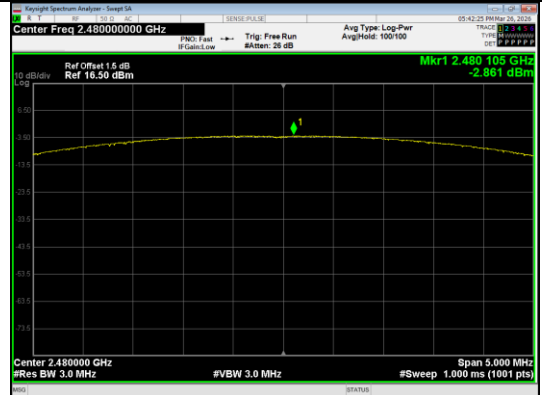
Peak Output Power
GFSK_Channel 78



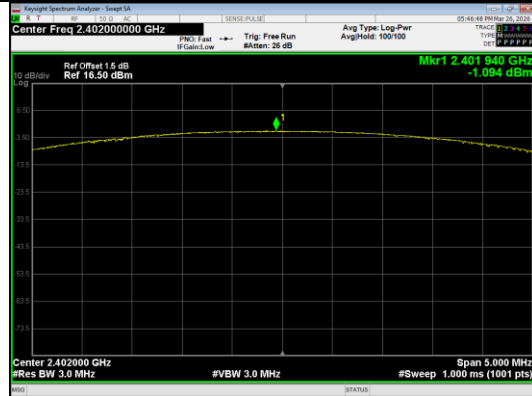
Peak Output Power
 $\pi/4$ DQPSK_Channel 0



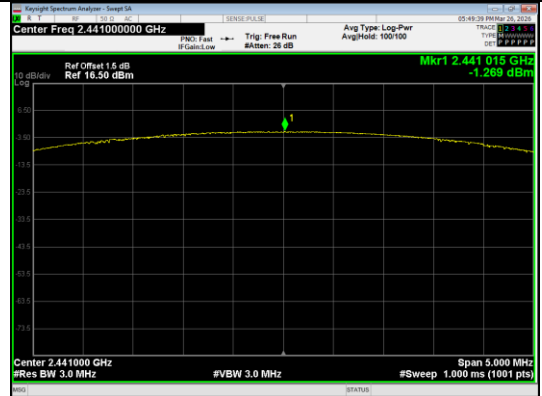
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



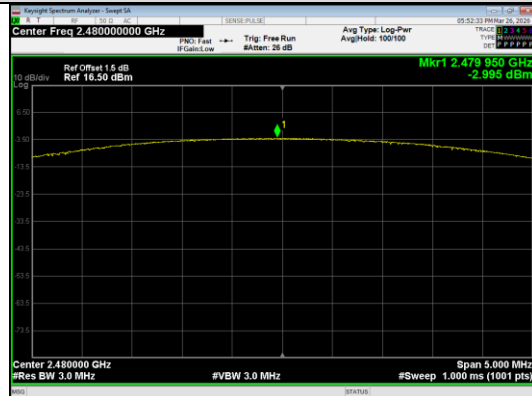
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0

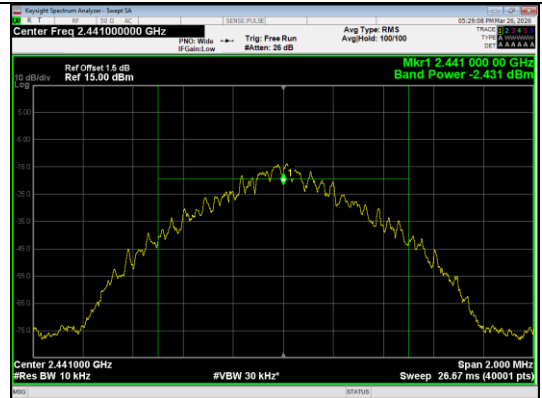


Peak Output Power
8DPSK_Channel 39

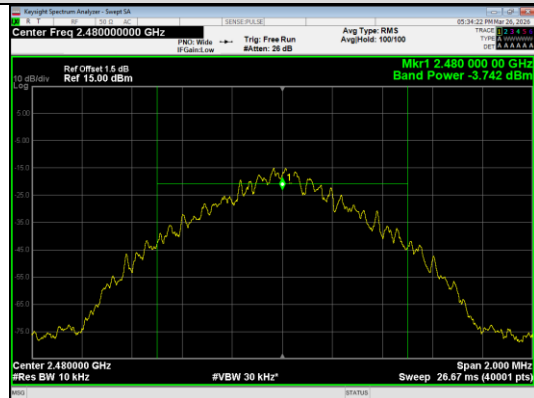


Peak Output Power

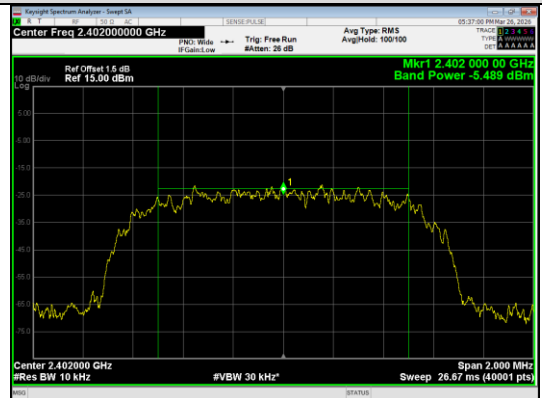
8DPSK_Channel 78



Average Output Power GFSK_Channel 0



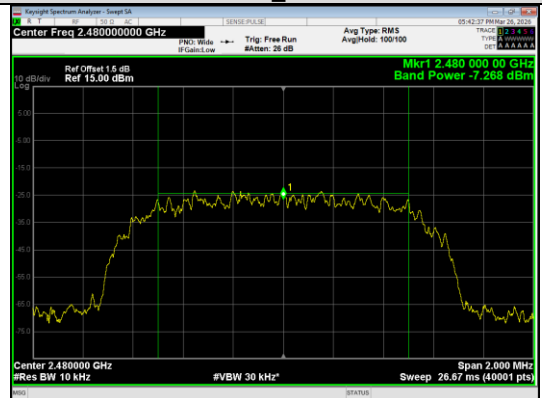
Average Output Power GFSK_Channel 39



Average Output Power GFSK_Channel 78

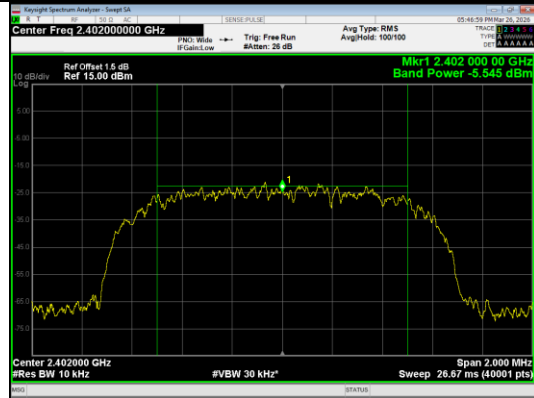


Average Output Power $\pi/4$ DQPSK_Channel 0

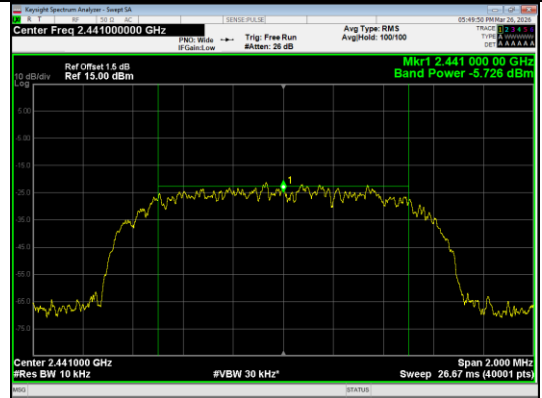


Average Output Power $\pi/4$ DQPSK_Channel 39

Average Output Power $\pi/4$ DQPSK_Channel 78



Average Output Power
8DPSK_Channel 0



Average Output Power
8DPSK_Channel 39

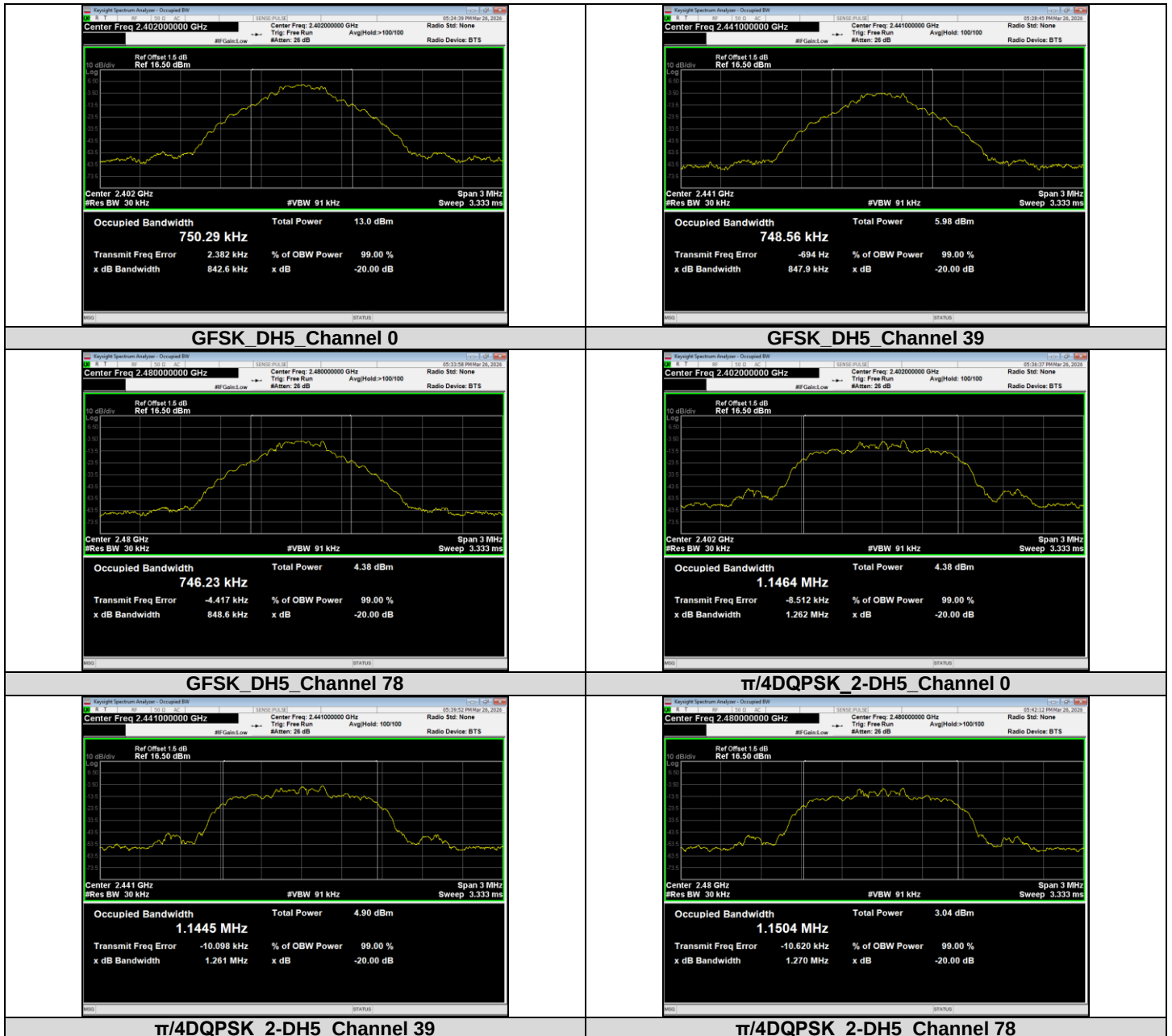


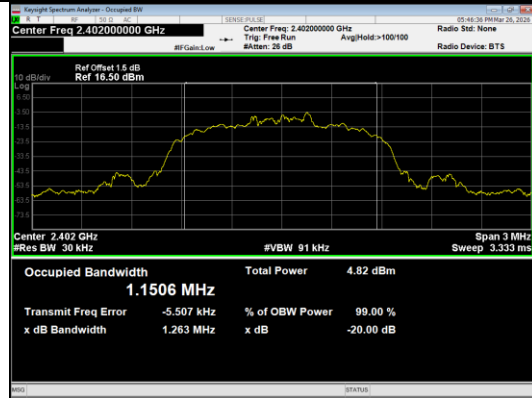
Average Output Power
8DPSK_Channel 78

20dB Bandwidth Test Result

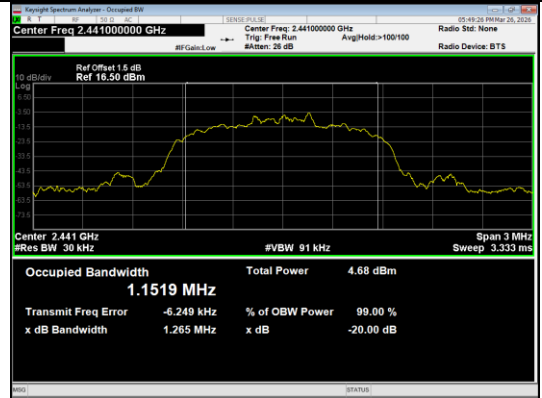
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.8400
	39	2441 MHz	0.8500
	78	2480 MHz	0.8500
$\pi/4$ DQPSK	0	2402 MHz	1.260
	39	2441 MHz	1.260
	78	2480 MHz	1.270
8DPSK	0	2402 MHz	1.260
	39	2441 MHz	1.270
	78	2480 MHz	1.280

Test Graphs

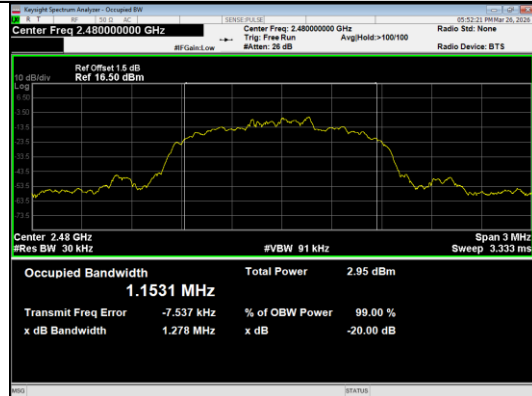




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



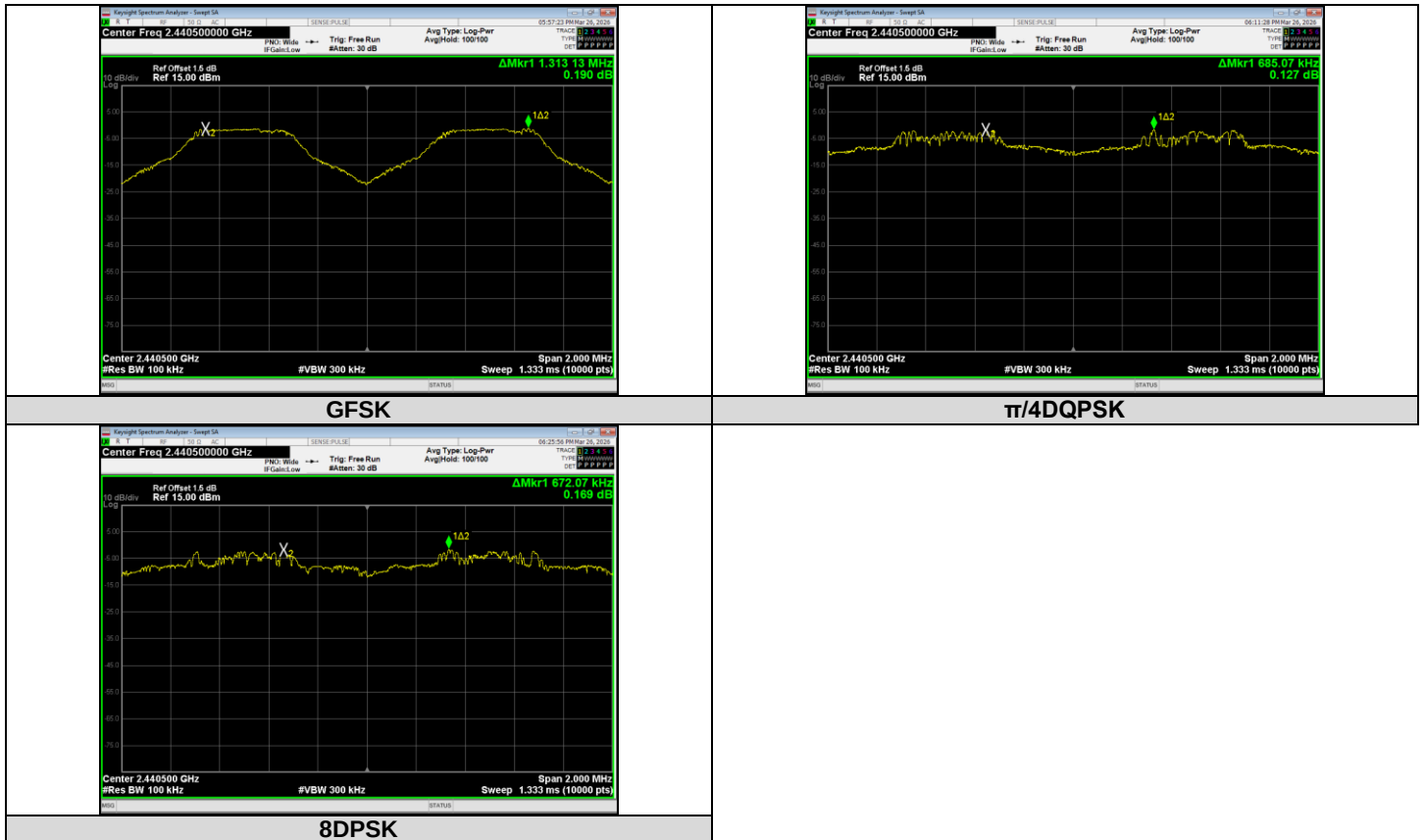
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8424	2441.1556	1.3131	0.99	PASS
$\pi/4$ DQPSK	2-DH5	2440.1425	2440.8275	0.6851	0.99	PASS
8DPSK	3-DH5	2440.1599	2440.8319	0.6721	0.99	PASS

Test Graphs



Conducted Out Of Band Emission

Test Result

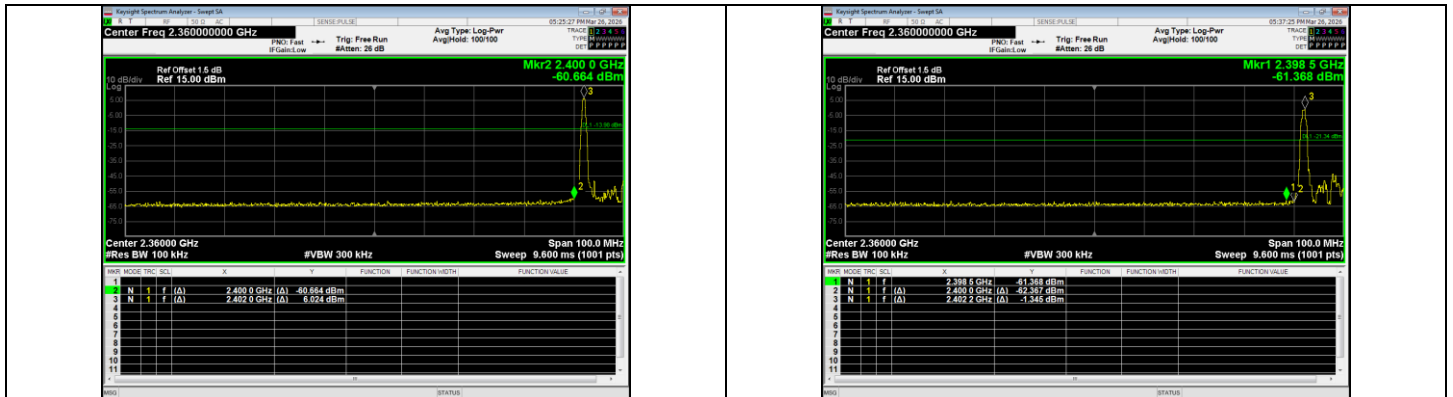
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-60.660	-13.98	-46.680	PASS
			2618.76	-45.853	-13.98	-31.873	PASS
		39	5186.31	-47.288	-21.05	-26.238	PASS
		78	1764.17	-39.763	-22.33	-17.433	PASS
			2483.50	-63.920	-22.33	-41.590	PASS
π/4DQPSK	2-DH5	0	1763.50	-29.557	-21.34	-8.217	PASS
			2398.50	-61.368	-21.34	-40.028	PASS
			2400.00	-62.370	-21.34	-41.030	PASS
		39	1753.55	-28.252	-21.94	-6.311	PASS
		78	2483.50	-63.850	-23.21	-40.640	PASS
			24016.2	-51.573	-23.21	-28.363	PASS
8DPSK	3-DH5	0	2370.00	-61.564	-21.4	-40.164	PASS
			2400.00	-62.020	-21.4	-40.620	PASS
			24029.3	-52.030	-21.4	-30.630	PASS
		39	24571.8	-52.204	-21.67	-30.534	PASS
		78	1764.17	-42.477	-23.31	-19.167	PASS
			2483.50	-64.370	-23.31	-41.060	PASS

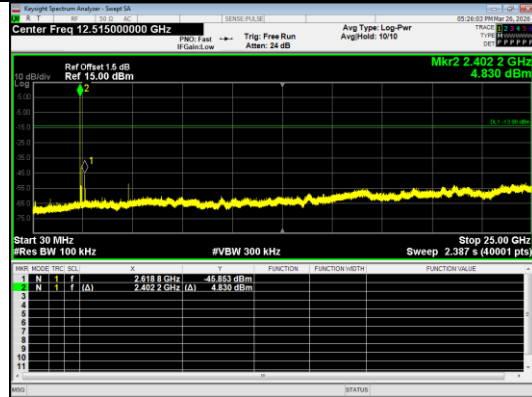
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2366.40	-61.015	-20.18	-40.835	PASS
			2400.00	-62.120	-20.18	-41.940	PASS
			2483.50	-62.360	-21.44	-40.920	PASS
π/4DQPSK	2-DH5		2372.90	-60.662	-20.68	-39.982	PASS
			2400.00	-62.840	-20.68	-42.160	PASS
			2483.50	-62.290	-22.46	-39.830	PASS
8DPSK	3-DH5		2386.90	-60.840	-20.99	-39.850	PASS
			2400.00	-62.120	-20.99	-41.130	PASS
			2483.50	-63.240	-22.67	-40.570	PASS

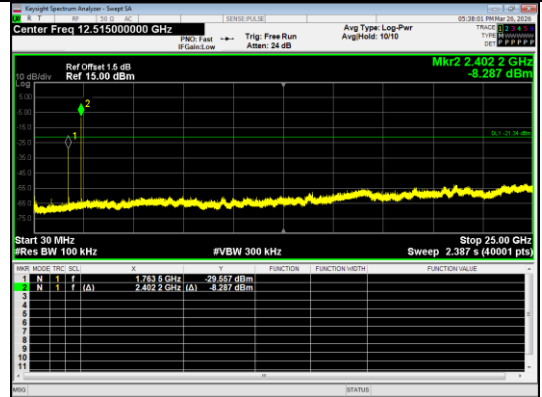
Test Graphs



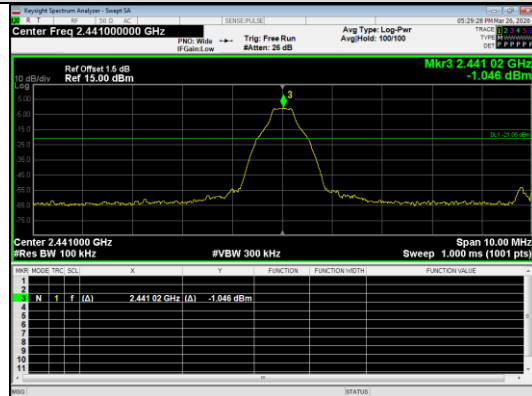
Out Of Band Emission GFSK_DH5_Channel 0



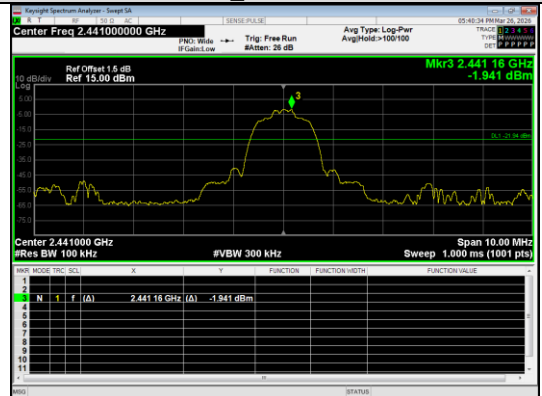
Out Of Band Emission $\pi/4$ DQPSK_2-DH5_Channel 0



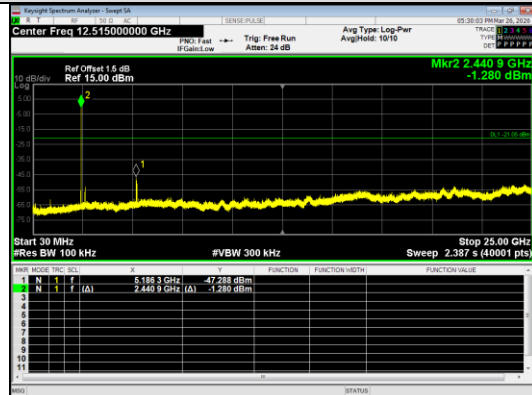
30.0 MHz - 25000.0 MHz GFSK_DH5_Channel 0



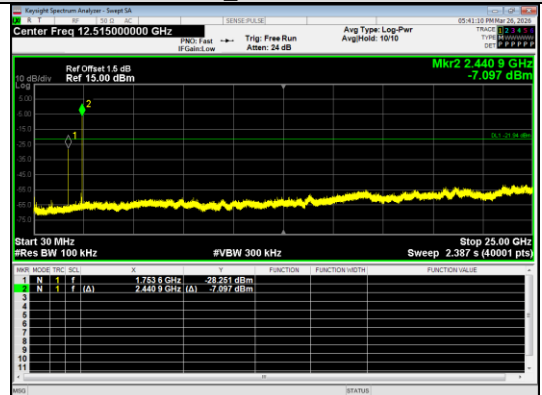
30.0 MHz - 25000.0 MHz $\pi/4$ DQPSK_2-DH5_Channel 0



Out Of Band Emission GFSK_DH5_Channel 39

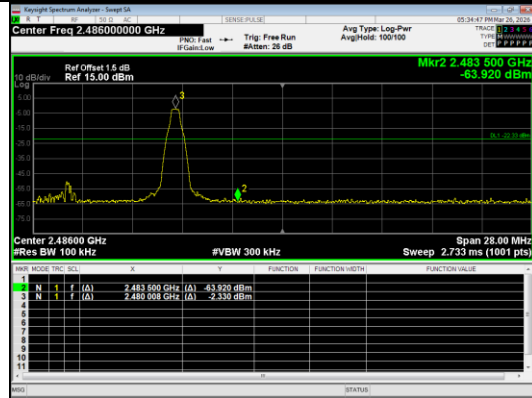


Out Of Band Emission $\pi/4$ DQPSK_2-DH5_Channel 39

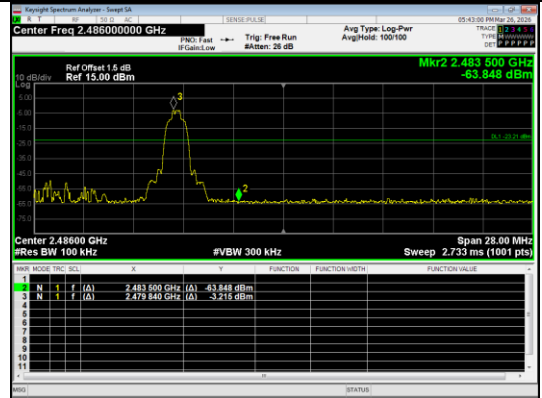


30.0 MHz - 25000.0 MHz GFSK_DH5_Channel 39

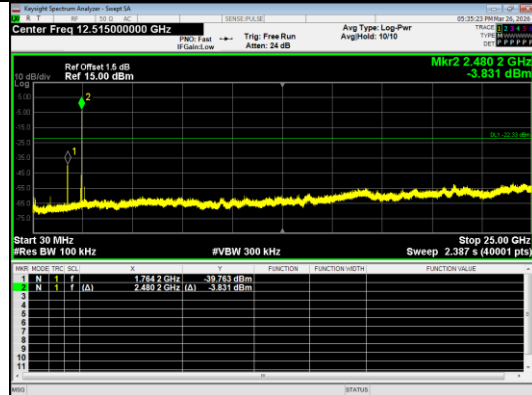
30.0 MHz - 25000.0 MHz $\pi/4$ DQPSK_2-DH5_Channel 39



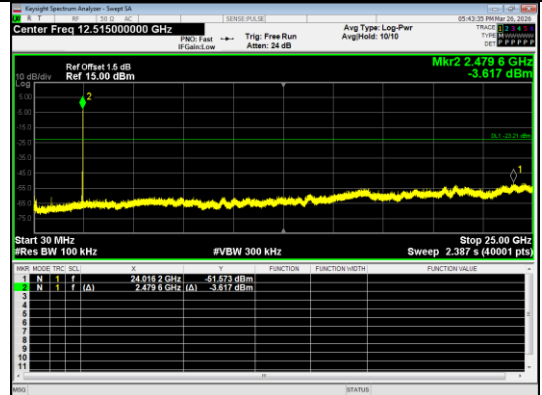
Out Of Band Emission
GFSK_DH5_Channel 78



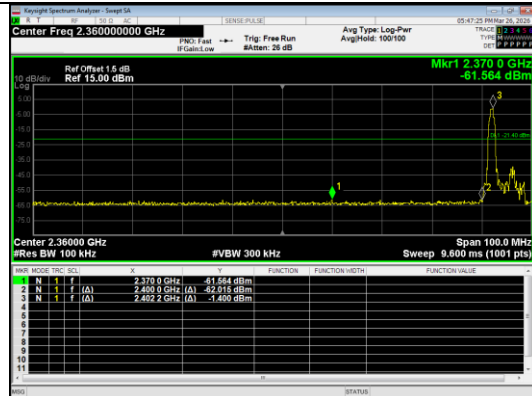
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



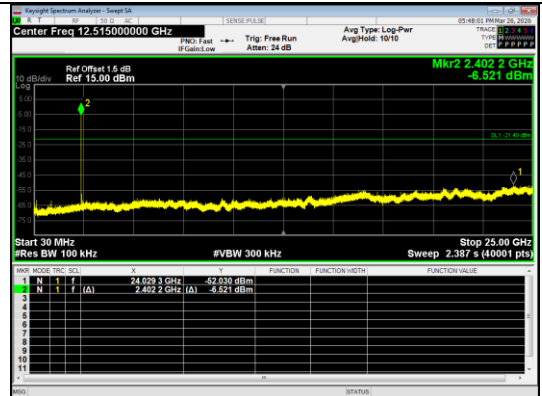
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



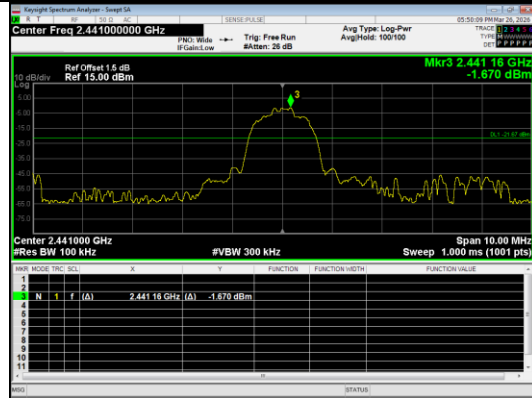
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



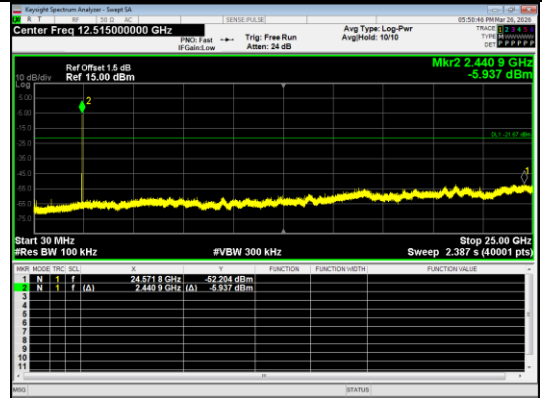
Out Of Band Emission
8DPSK_3-DH5_Channel 0



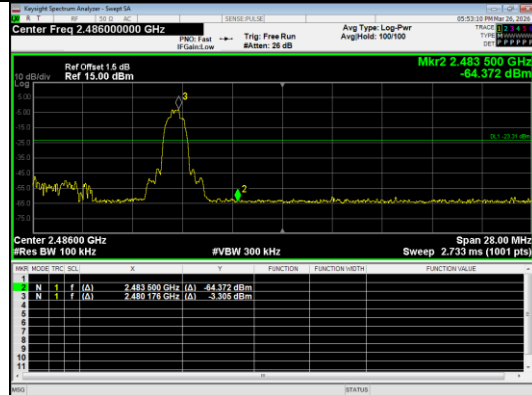
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



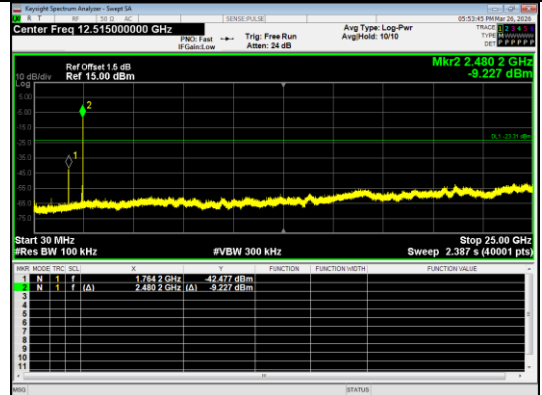
Out Of Band Emission
8DPSK_3-DH5_Channel 39



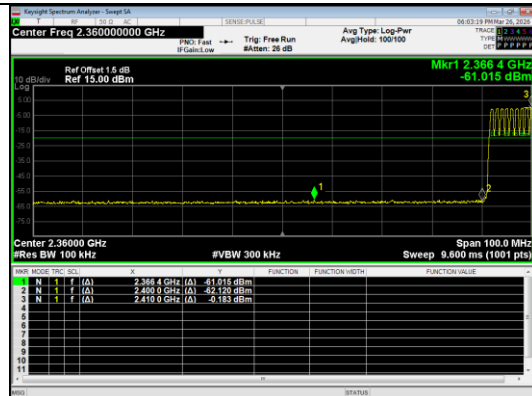
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



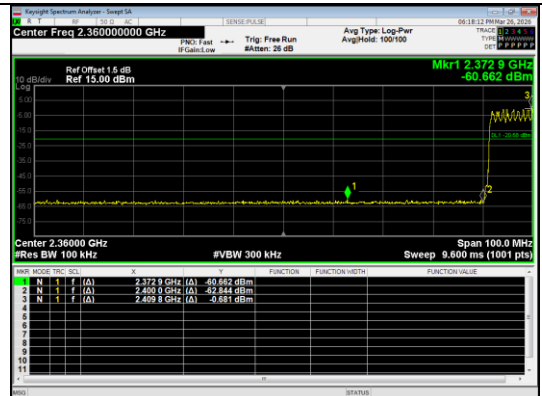
Out Of Band Emission
8DPSK_3-DH5_Channel 78



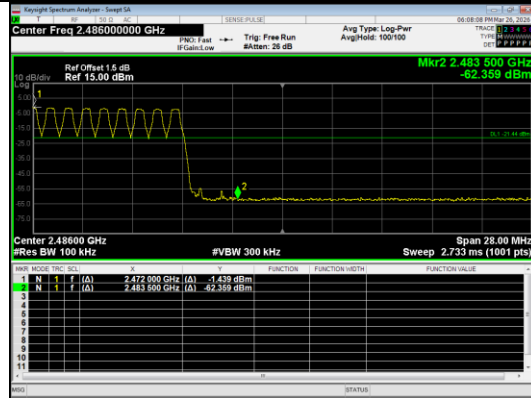
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78



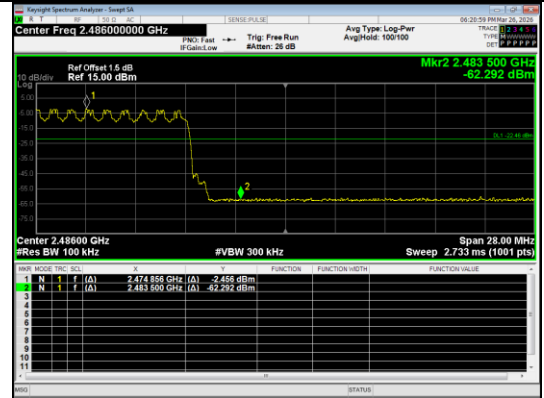
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



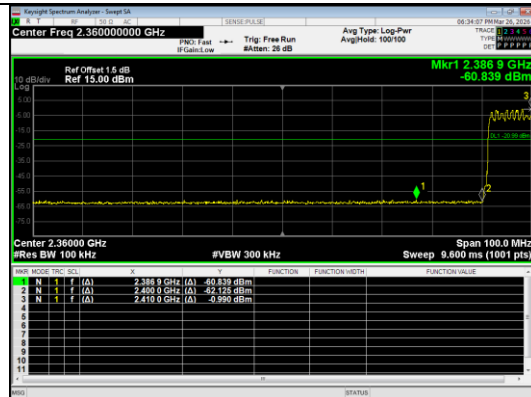
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



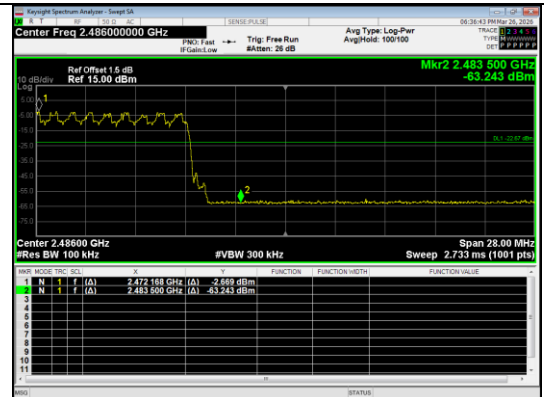
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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

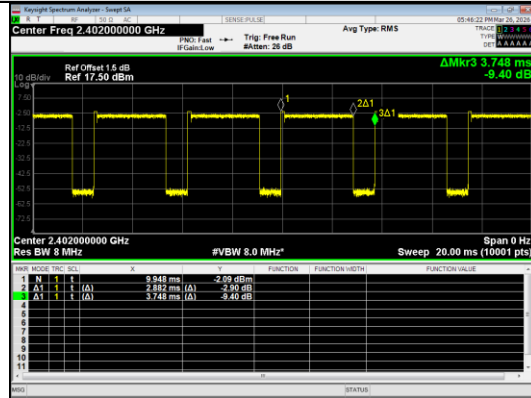
Duty Cycle Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.878	3.748	76.79	0.7679	1.147	0.3475
		39	2.876	3.748	76.73	0.7673	1.1503	0.3477
		78	2.878	3.748	76.79	0.7679	1.147	0.3475
π /4DQPSK	2-DH5	0	2.880	3.748	76.84	0.7684	1.1441	0.3472
		39	2.882	3.748	76.89	0.7689	1.1413	0.3470
		78	2.880	3.748	76.84	0.7684	1.1441	0.3472
8DPSK	3-DH5	0	2.882	3.748	76.89	0.7689	1.1413	0.3470
		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

Test Graphs



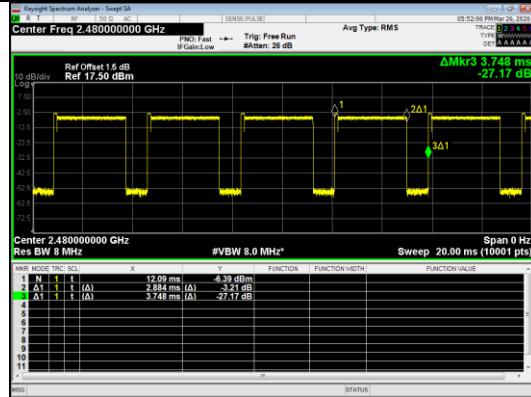
$\pi/4$ DQPSK(2-DH5)_Channel 39



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



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39

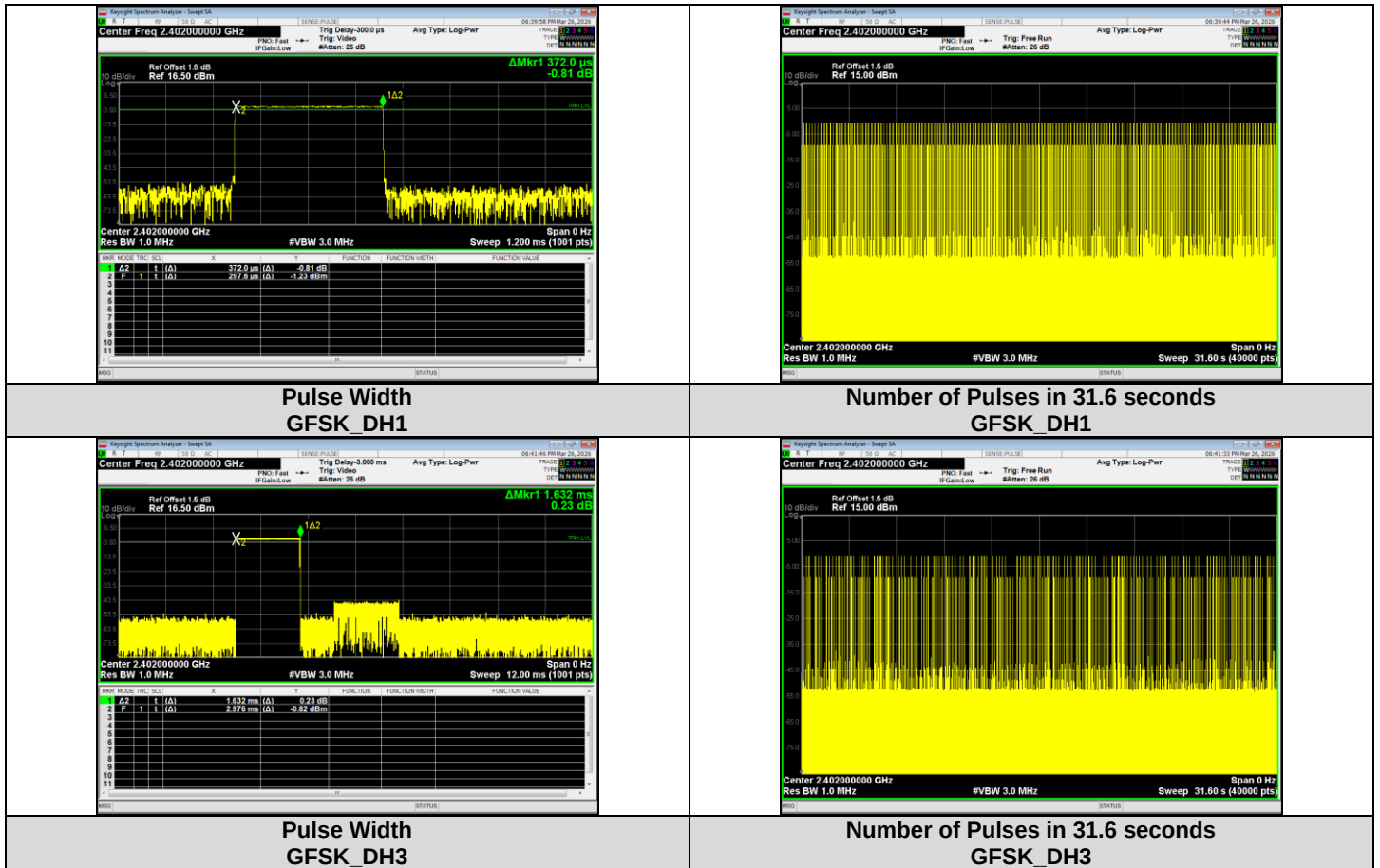
8DPSK(3-DH5)_Channel 78

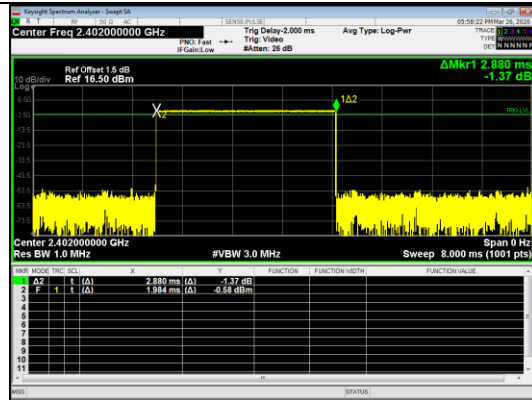
Dwell Time

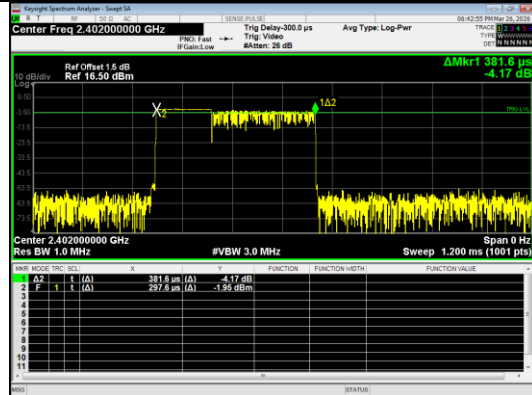
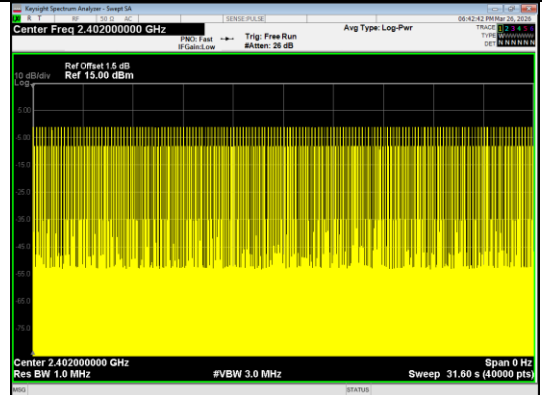
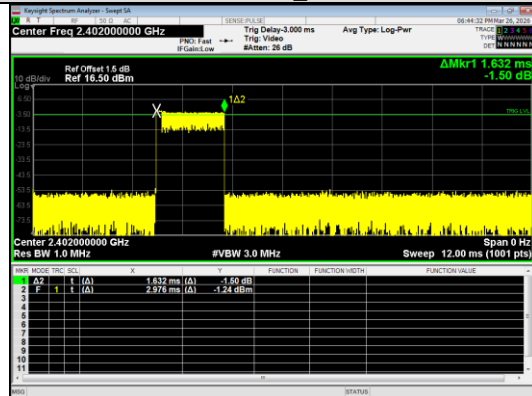
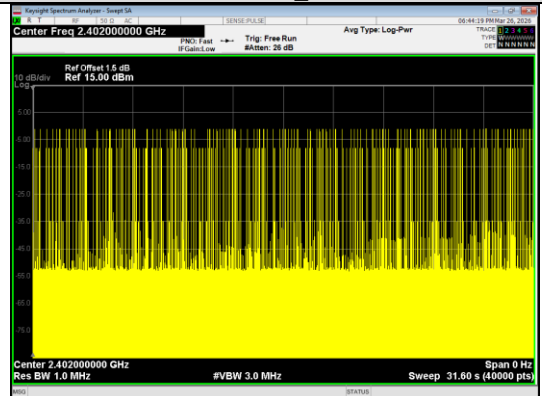
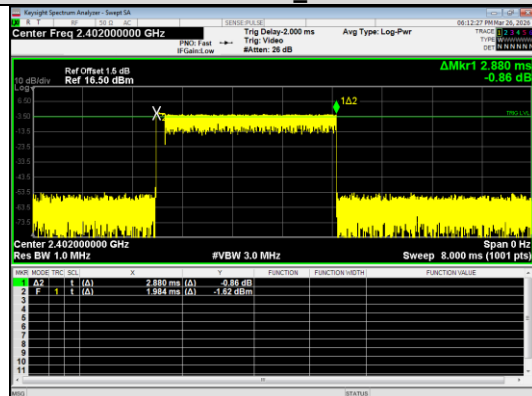
Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	Hopping	0.3720	312	116.06	< 400	PASS
	DH3		1.632	171	279.07		PASS
	DH5		2.880	109	313.92		PASS
$\pi/4$ DQPSK	2-DH1		0.3816	312	119.06		PASS
	2-DH3		1.632	150	244.8		PASS
	2-DH5		2.880	121	348.48		PASS
8DPSK	3-DH1		0.3816	313	119.44		PASS
	3-DH3		1.632	149	243.17		PASS
	3-DH5		2.896	109	315.66		PASS

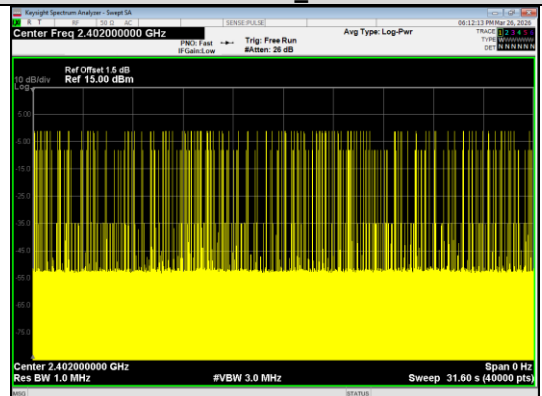
Test Graphs



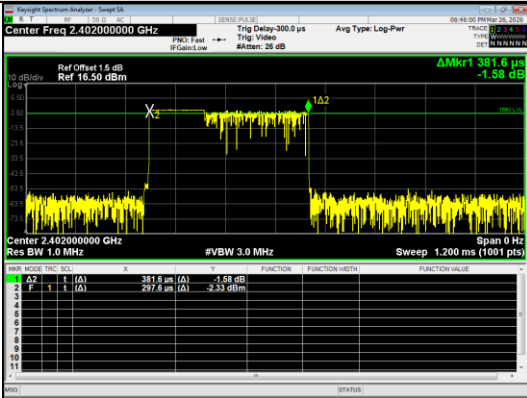
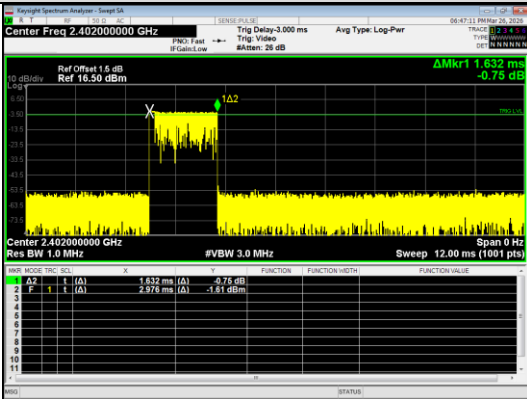
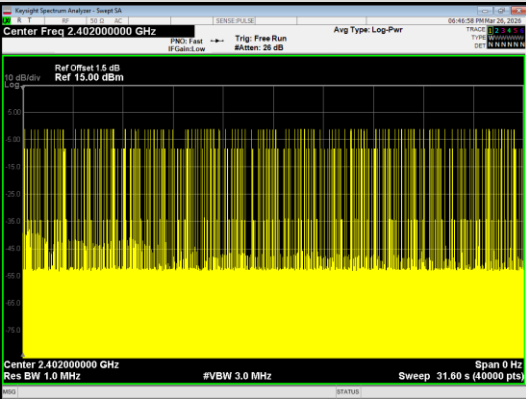
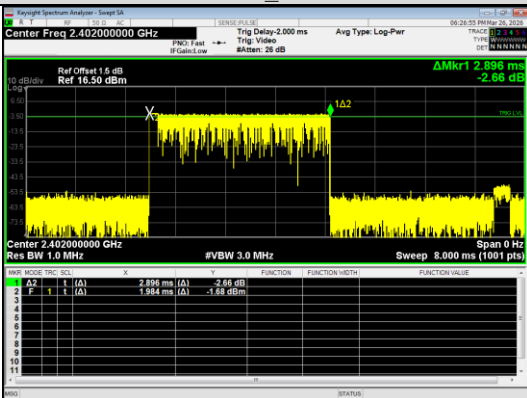

Pulse Width
GFSK_DH5

Number of Pulses in 31.6 seconds
GFSK_DH5

Pulse Width
π/4DQPSK_2-DH1

Number of Pulses in 31.6 seconds
π/4DQPSK_2-DH1

Pulse Width
π/4DQPSK_2-DH3

Number of Pulses in 31.6 seconds
π/4DQPSK_2-DH3


Pulse Width



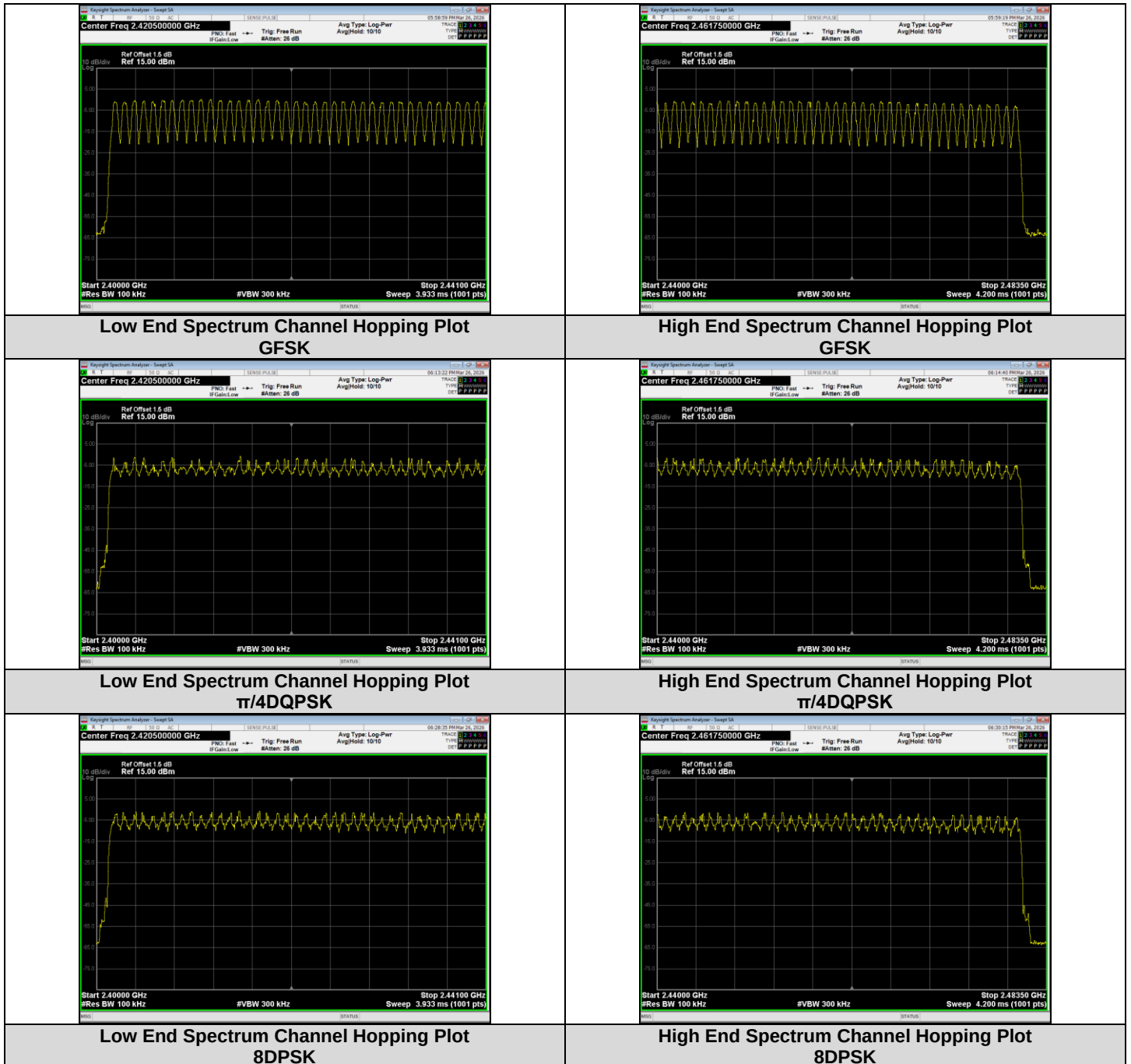
Number of Pulses in 31.6 seconds

$\pi/4$DQPSK_2-DH5  Center Freq 2.402000000 GHz Res BW 1.0 MHz Sweep 1.200 ms (1001 pts)	$\pi/4$DQPSK_2-DH5  Center Freq 2.402000000 GHz Res BW 1.0 MHz Sweep 31.60 s (40000 pts)
Pulse Width 8DPSK_3-DH1  Center Freq 2.402000000 GHz Res BW 1.0 MHz Sweep 12.00 ms (1001 pts)	Number of Pulses in 31.6 seconds 8DPSK_3-DH1  Center Freq 2.402000000 GHz Res BW 1.0 MHz Sweep 31.60 s (40000 pts)
Pulse Width 8DPSK_3-DH3  Center Freq 2.402000000 GHz Res BW 1.0 MHz Sweep 8.000 ms (1001 pts)	Number of Pulses in 31.6 seconds 8DPSK_3-DH3  Center Freq 2.402000000 GHz Res BW 1.0 MHz Sweep 31.60 s (40000 pts)
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



***** End of Report *****