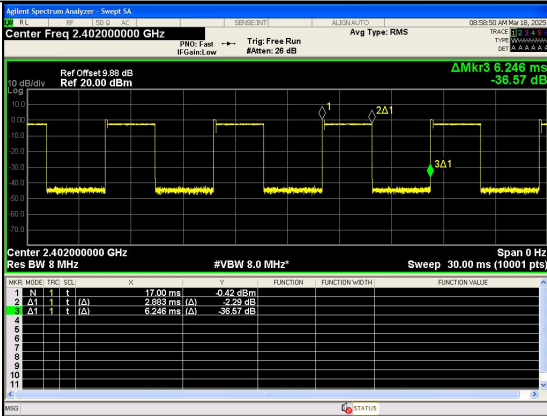
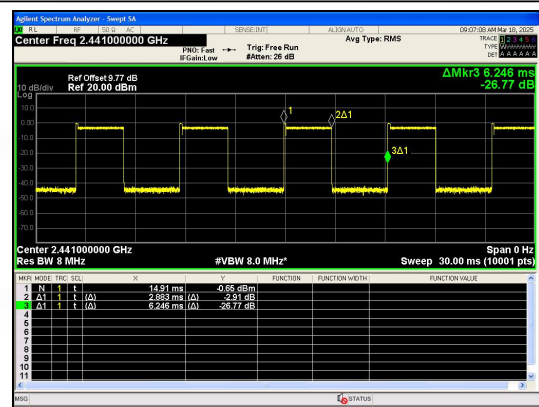
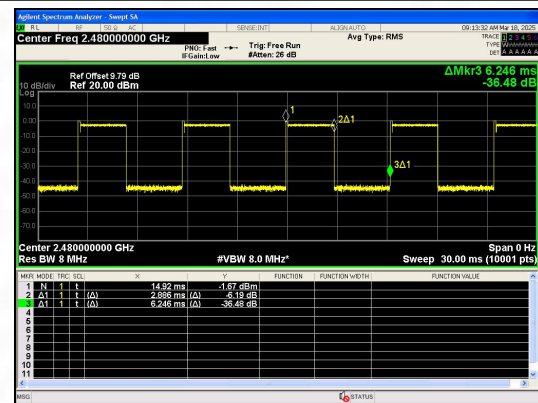




8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39



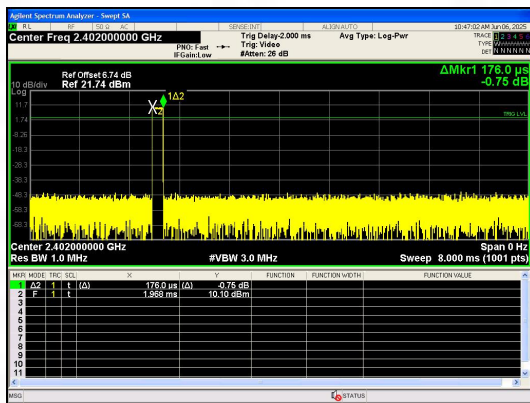
8DPSK(3-DH5)_Channel 78

Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	CH0 (2402MHz)	0.1760	114	20.06	< 400	PASS
$\pi/4$ DQPSK	2-DH5		0.1600	107	17.12		PASS
8DPSK	3-DH5		0.1600	108	17.28		PASS

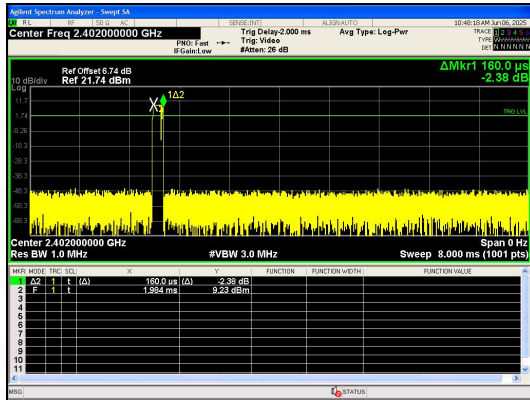
Test Graphs



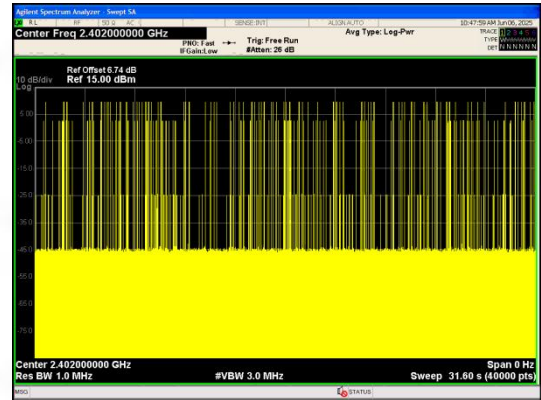
Pulse Width
GFSK_DH5



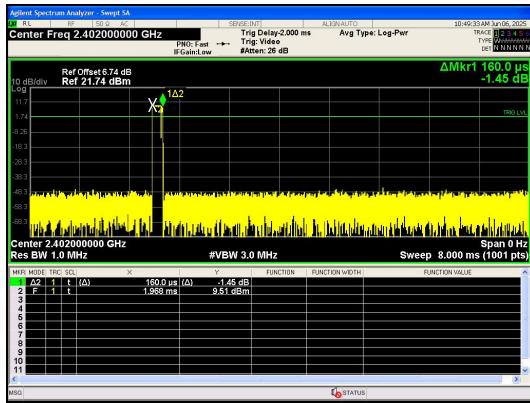
Number of Pulses in 31.6 seconds
GFSK_DH5



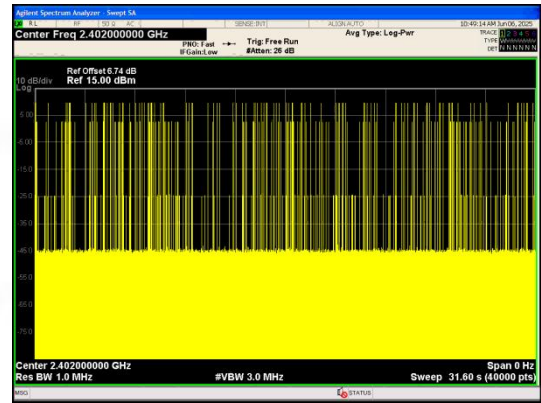
Pulse Width
 $\pi/4$ DQPSK_2-DH5



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

99% Bandwidth**Test Result**

Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.86978
	39	2441	0.85124
	78	2480	0.85054
	0	2402	0.87221
	39	2441	0.88417
	78	2480	0.87443
	0	2402	0.87753
	39	2441	0.88923
	78	2480	0.89040
$\pi/4$ DQPSK	0	2402	1.1263
	39	2441	1.1324
	78	2480	1.1363
	0	2402	1.1673
	39	2441	1.1565
	78	2480	1.1583
	0	2402	1.1599
	39	2441	1.1526
	78	2480	1.1681
8DPSK	0	2402	1.1295
	39	2441	1.1258
	78	2480	1.1229
	0	2402	1.1639
	39	2441	1.1759
	78	2480	1.1635
	0	2402	1.1653
	39	2441	1.1783
	78	2480	1.1683

Test Graphs



GFSK_DH1_Channel 0



GFSK_DH3_Channel 0



GFSK_DH1_Channel 39



GFSK_DH3_Channel 39



GFSK_DH1_Channel 78



GFSK_DH3_Channel 78

20dB Bandwidth

Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.8919
	39	2441 MHz	0.8886
	78	2480 MHz	0.8896
	0	2402 MHz	1.018
	39	2441 MHz	1.024
	78	2480 MHz	1.027
	0	2402 MHz	0.9407
	39	2441 MHz	0.9515
	78	2480 MHz	1.025
$\pi/4$ DQPSK	0	2402 MHz	1.191
	39	2441 MHz	1.188
	78	2480 MHz	1.187
	0	2402 MHz	1.250
	39	2441 MHz	1.254
	78	2480 MHz	1.256
	0	2402 MHz	1.253
	39	2441 MHz	1.246
	78	2480 MHz	1.256
8DPSK	0	2402 MHz	1.215
	39	2441 MHz	1.217
	78	2480 MHz	1.218
	0	2402 MHz	1.261
	39	2441 MHz	1.265
	78	2480 MHz	1.260
	0	2402 MHz	1.250
	39	2441 MHz	1.238
	78	2480 MHz	1.248

Test Graphs



GFSK_DH1_Channel 0



GFSK_DH1_Channel 39



GFSK_DH1_Channel 78



GFSK_DH3_Channel 0



GFSK_DH3_Channel 39



GFSK_DH3_Channel 78



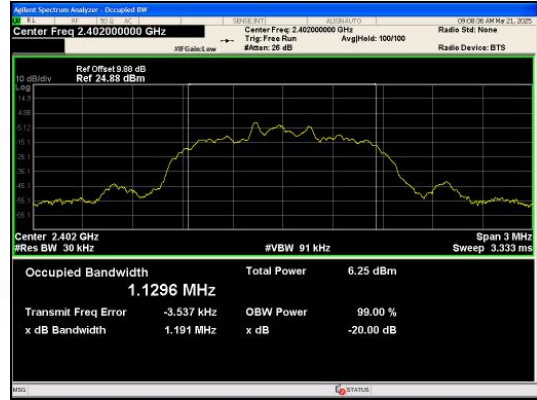
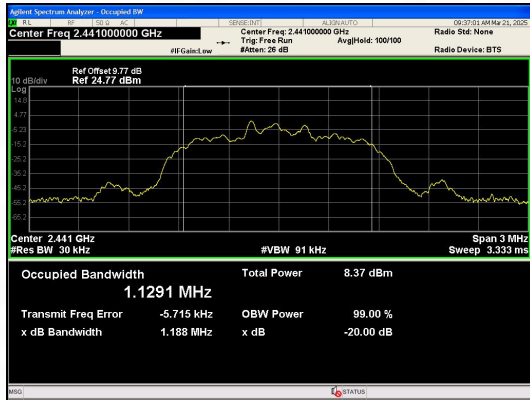
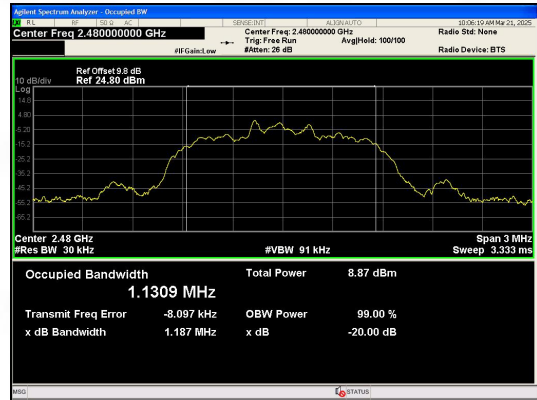
GFSK_DH5_Channel 0



GFSK_DH5_Channel 39



GFSK_DH5_Channel 78

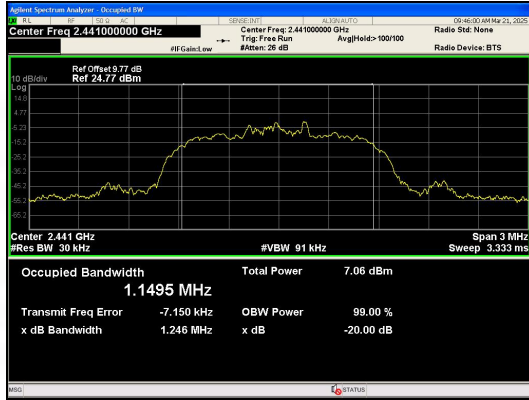
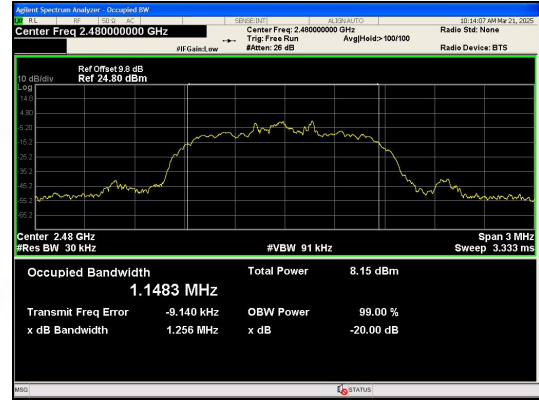
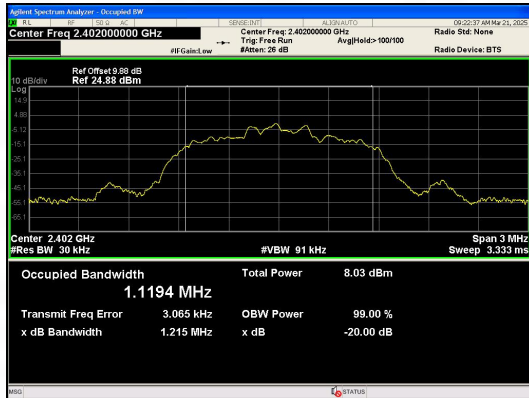

 $\pi/4$ DQPSK_2-DH1_Channel 0

 $\pi/4$ DQPSK_2-DH1_Channel 39

 $\pi/4$ DQPSK_2-DH1_Channel 78

 $\pi/4$ DQPSK_2-DH3_Channel 0

 $\pi/4$ DQPSK_2-DH3_Channel 78

 $\pi/4$ DQPSK_2-DH3_Channel 78

 $\pi/4$ DQPSK_2-DH5_Channel 0


 $\pi/4$ DQPSK_2-DH5_Channel 39

 $\pi/4$ DQPSK_2-DH5_Channel 78


8DPSK_3-DH1_Channel 0



8DPSK_3-DH1_Channel 39



8DPSK_3-DH1_Channel 78



8DPSK_3-DH3_Channel 0



8DPSK_3-DH3_Channel 39



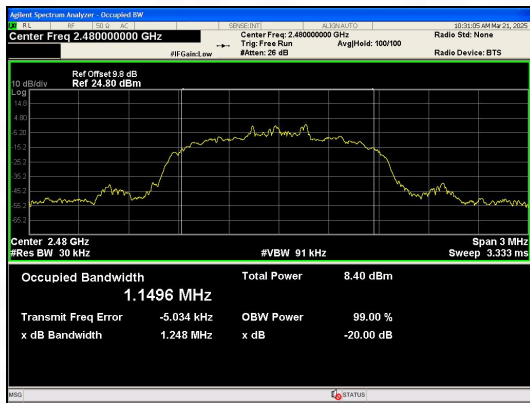
8DPSK_3-DH3_Channel 78



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



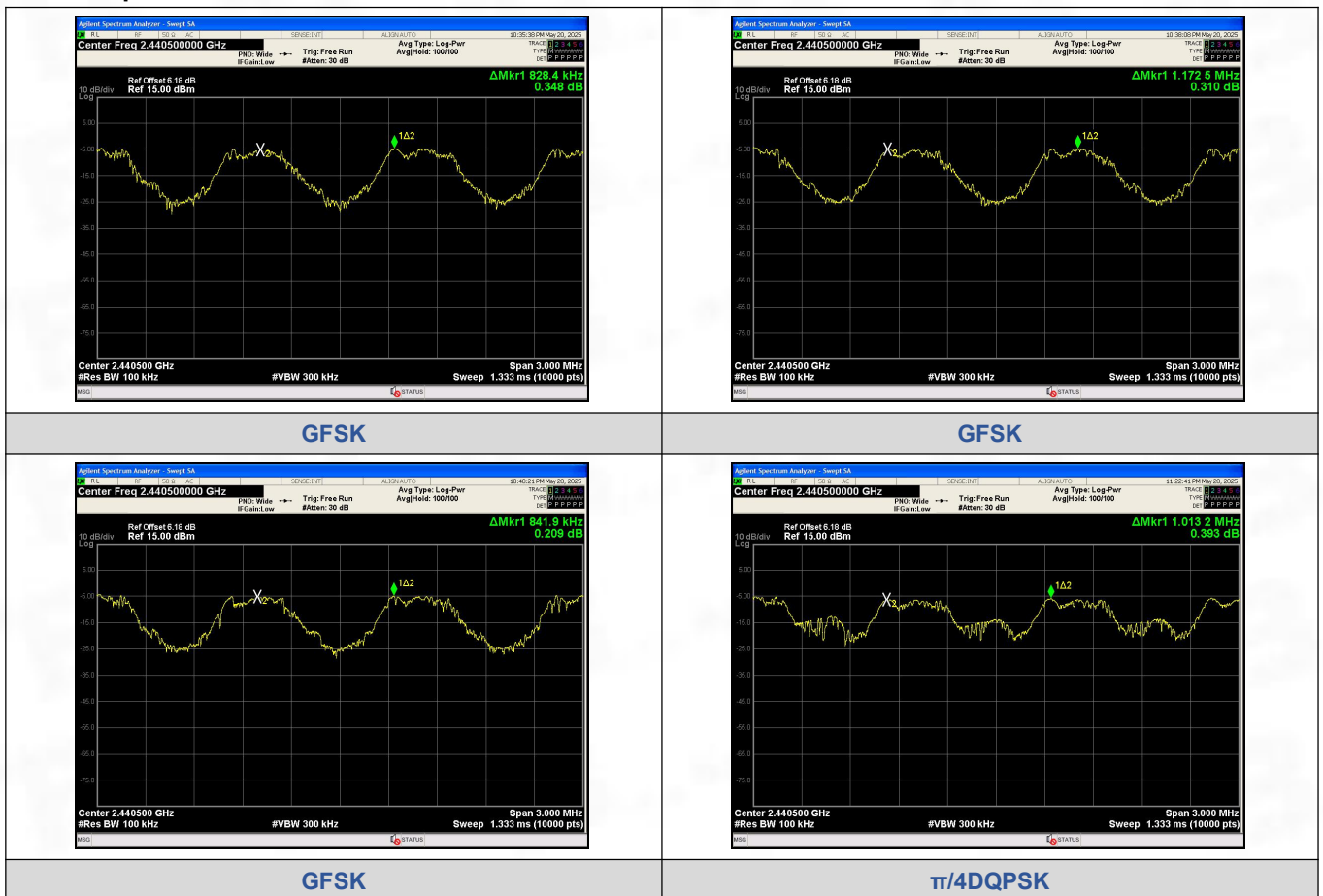
8DPSK_3-DH5_Channel 78

Carrier Frequency Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH1	2440.0072	2440.8356	0.8284	0.595	PASS
GFSK	DH3	2439.8311	2441.0036	1.1725	0.685	PASS
GFSK	DH5	2439.9898	2440.8317	0.8419	0.683	PASS
$\pi/4$ DQPSK	2-DH1	2439.8242	2440.8374	1.0132	0.794	PASS
$\pi/4$ DQPSK	2-DH3	2440.0447	2440.9955	0.9508	0.837	PASS
$\pi/4$ DQPSK	2-DH5	2440.1467	2441.1509	1.0042	0.837	PASS
8DPSK	3-DH1	2439.8347	2440.8335	0.9988	0.812	PASS
8DPSK	3-DH3	2439.8314	2441.0012	1.1698	0.843	PASS
8DPSK	3-DH5	2440.1431	2441.1311	0.9880	0.833	PASS

Test Graphs




 $\pi/4$ DQPSK

 $\pi/4$ DQPSK


8DPSK



8DPSK



8DPSK

Conducted Out Of Band Emission

Note: The maximum loss of the test system for testing at 30MHz-26.5GHz is 17.2dB. The offset on the test chart is the offset of the main frequency, and the margin is sufficient to offset the difference between the maximum loss of the system and the offset of the main frequency.

Test Result

Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	0	2312.39	-50.164	-18.81	-31.354	PASS
			2400.00	-53.771	-18.81	-34.961	PASS
			4803.00	-66.391	-18.81	-47.581	PASS
			7206.40	-67.472	-18.81	-48.662	PASS
			9607.90	-68.906	-18.81	-50.096	PASS
			24707.9	-54.814	-18.81	-36.004	PASS
		39	4882.30	-66.157	-19.76	-46.397	PASS
			7322.49	-65.938	-19.76	-46.178	PASS
			9764.55	-68.652	-19.76	-48.892	PASS
			24626.7	-54.268	-19.76	-34.508	PASS
		78	2483.50	-53.448	-18.84	-34.608	PASS
			4959.08	-66.031	-18.84	-47.191	PASS
			7440.47	-67.608	-18.84	-48.768	PASS
			9920.62	-69.686	-18.84	-50.846	PASS
			24593.0	-54.725	-18.84	-35.885	PASS
	DH3	0	2357.75	-49.699	-19.18	-30.519	PASS
			2400.00	-52.473	-19.18	-33.293	PASS
			4804.30	-64.742	-19.18	-45.562	PASS
			7205.80	-65.462	-19.18	-46.282	PASS
			9607.20	-66.969	-19.18	-47.789	PASS
			24774.6	-54.353	-19.18	-35.173	PASS
		39	4882.30	-66.116	-20.42	-45.696	PASS
			7322.49	-68.870	-20.42	-48.450	PASS
			9764.55	-68.649	-20.42	-48.229	PASS
			24631.7	-54.735	-20.42	-34.315	PASS
		78	2483.50	-52.325	-18.95	-33.375	PASS
			4960.95	-66.911	-18.95	-47.961	PASS
			7439.85	-68.208	-18.95	-49.258	PASS
			9919.37	-67.350	-18.95	-48.400	PASS
			24729.1	-53.599	-18.95	-34.649	PASS
	DH5	0	2309.55	-50.648	-18.85	-31.798	PASS
			2400.00	-52.321	-18.85	-33.471	PASS

			4803.60	-65.925	-18.85	-47.075	PASS
			7205.10	-65.289	-18.85	-46.439	PASS
			9607.20	-68.403	-18.85	-49.553	PASS
			24531.8	-54.433	-18.85	-35.583	PASS
		39	4882.30	-64.207	-19.6	-44.607	PASS
			7323.74	-67.697	-19.6	-48.096	PASS
			9764.55	-67.992	-19.6	-48.392	PASS
			24649.8	-54.562	-19.6	-34.962	PASS
		78	2483.50	-52.581	-19.56	-33.021	PASS
			4960.33	-68.167	-19.56	-48.607	PASS
			7439.85	-67.870	-19.56	-48.310	PASS
			9920.62	-67.940	-19.56	-48.380	PASS
			24662.9	-54.499	-19.56	-34.939	PASS
π/4DQPSK	2-DH1	0	2353.86	-51.452	-20.4	-31.052	PASS
			2400.00	-53.902	-20.4	-33.502	PASS
			4804.90	-68.264	-20.4	-47.864	PASS
			7206.40	-68.408	-20.4	-48.008	PASS
			9607.20	-67.654	-20.4	-47.254	PASS
			24948.2	-55.191	-20.4	-34.791	PASS
		39	4881.05	-68.305	-18.4	-49.905	PASS
			7322.49	-68.603	-18.4	-50.203	PASS
			9763.93	-68.093	-18.4	-49.693	PASS
			24754.7	-55.317	-18.4	-36.917	PASS
		78	2483.50	-50.976	-17.82	-33.156	PASS
			4960.33	-67.723	-17.82	-49.903	PASS
			7439.85	-68.207	-17.82	-50.387	PASS
			9919.99	-70.688	-17.82	-52.868	PASS
			24759.0	-55.487	-17.82	-37.667	PASS
	2-DH3	0	2335.49	-51.270	-20.33	-30.940	PASS
			2400.00	-52.203	-20.33	-31.873	PASS
			4803.00	-68.158	-20.33	-47.828	PASS
			7206.40	-67.564	-20.33	-47.234	PASS
			9608.50	-68.410	-20.33	-48.080	PASS
			24796.5	-55.407	-20.33	-35.078	PASS
		39	4881.67	-68.211	-18.71	-49.501	PASS
			7323.74	-67.591	-18.71	-48.881	PASS
			9763.31	-69.697	-18.71	-50.987	PASS
			24650.4	-56.039	-18.71	-37.329	PASS
		78	2483.50	-51.383	-18.0	-33.383	PASS
			4959.70	-68.200	-18.0	-50.200	PASS
			7439.85	-68.921	-18.0	-50.921	PASS
			9919.37	-70.360	-18.0	-52.360	PASS
			24752.8	-55.532	-18.0	-37.532	PASS
	2-DH5	0	2347.25	-51.026	-20.7	-30.326	PASS

			2400.00	-53.412	-20.7	-32.712	PASS
			4804.90	-68.289	-20.7	-47.589	PASS
			7206.40	-67.076	-20.7	-46.376	PASS
			9607.90	-68.733	-20.7	-48.033	PASS
			24681.6	-54.746	-20.7	-34.046	PASS
		39	4882.30	-66.581	-18.75	-47.831	PASS
			7323.74	-67.592	-18.75	-48.842	PASS
			9764.55	-68.801	-18.75	-50.051	PASS
			24683.5	-55.797	-18.75	-37.047	PASS
		78	2483.50	-50.976	-18.28	-32.696	PASS
			4960.95	-67.490	-18.28	-49.210	PASS
			7440.47	-68.587	-18.28	-50.306	PASS
			9919.99	-70.578	-18.28	-52.298	PASS
			24734.7	-55.379	-18.28	-37.099	PASS
8DPSK	3-DH1	0	2356.91	-49.221	-18.4	-30.821	PASS
			2400.00	-51.996	-18.4	-33.596	PASS
			4804.90	-68.466	-18.4	-50.066	PASS
			7205.10	-68.608	-18.4	-50.208	PASS
			9607.20	-67.977	-18.4	-49.577	PASS
			24640.4	-55.907	-18.4	-37.507	PASS
		39	4882.92	-68.194	-18.33	-49.864	PASS
			7323.74	-68.998	-18.33	-50.668	PASS
			9764.55	-67.650	-18.33	-49.320	PASS
			24579.9	-56.060	-18.33	-37.730	PASS
		78	2483.50	-51.130	-17.99	-33.140	PASS
			4959.70	-67.333	-17.99	-49.343	PASS
			7439.85	-68.154	-17.99	-50.164	PASS
			9919.37	-70.463	-17.99	-52.473	PASS
			24979.4	-56.222	-17.99	-38.232	PASS
	3-DH3	0	2318.16	-47.651	-17.91	-29.741	PASS
			2400.00	-50.103	-17.91	-32.193	PASS
			4803.00	-66.944	-17.91	-49.034	PASS
			7205.10	-65.855	-17.91	-47.945	PASS
			9607.20	-67.684	-17.91	-49.774	PASS
			24995.6	-55.742	-17.91	-37.832	PASS
		39	4882.92	-68.872	-18.35	-50.522	PASS
			7323.74	-68.862	-18.35	-50.512	PASS
			9764.55	-70.067	-18.35	-51.717	PASS
			24711.0	-55.383	-18.35	-37.032	PASS
		78	2483.50	-50.738	-18.43	-32.308	PASS
			4960.33	-66.907	-18.43	-48.477	PASS
			7440.47	-68.647	-18.43	-50.217	PASS
			9919.99	-68.682	-18.43	-50.252	PASS
			24780.9	-54.308	-18.43	-35.878	PASS