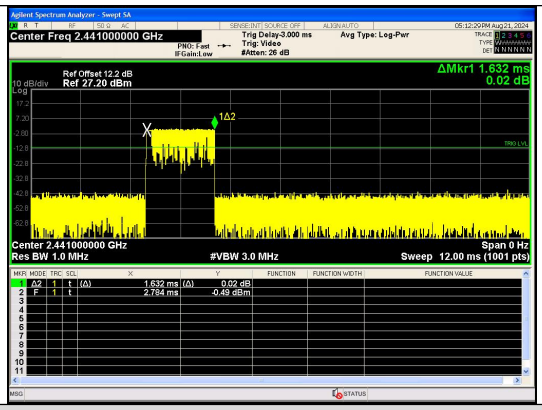
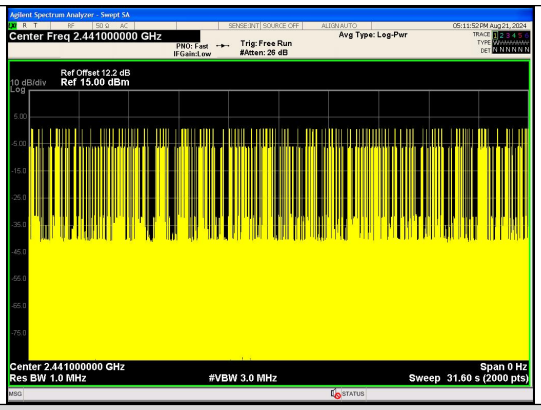
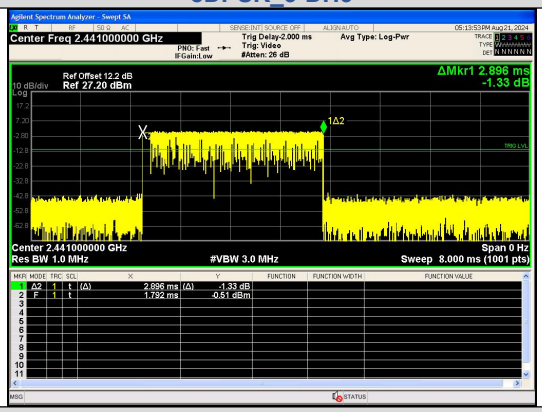


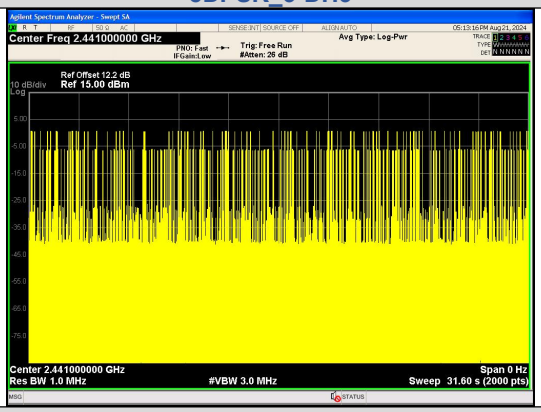
Pulse Width
8DPSK_3-DH3



Number of Pulses in 31.6 seconds
8DPSK_3-DH3



Pulse Width
8DPSK_3-DH5



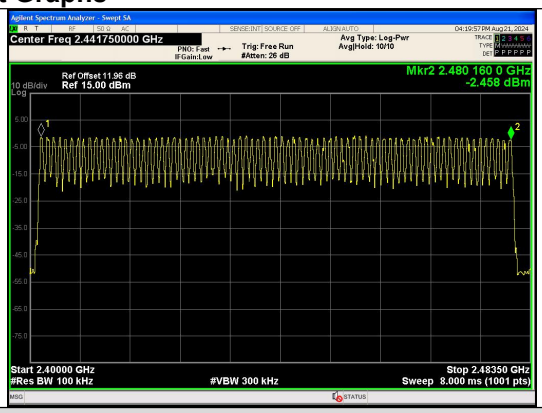
Number of Pulses in 31.6 seconds
8DPSK_3-DH5

APPENDIX III.Number Of Hopping Channel

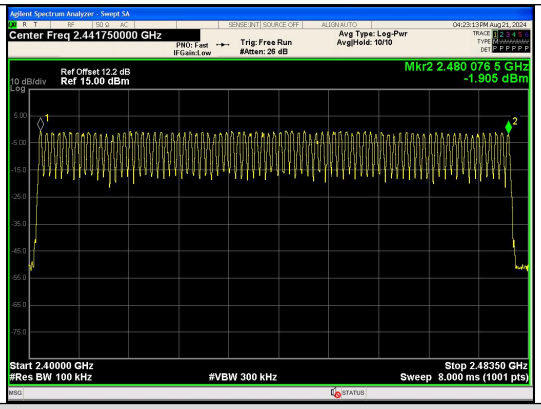
Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH5	79	15	PASS
GFSK	DH5	79	15	PASS
GFSK	DH5	79	15	PASS
π/4DQPSK	2-DH5	79	15	PASS
π/4DQPSK	2-DH5	79	15	PASS
π/4DQPSK	2-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS

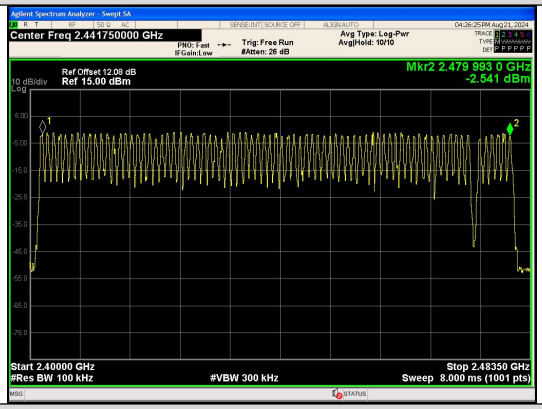
Test Graphs



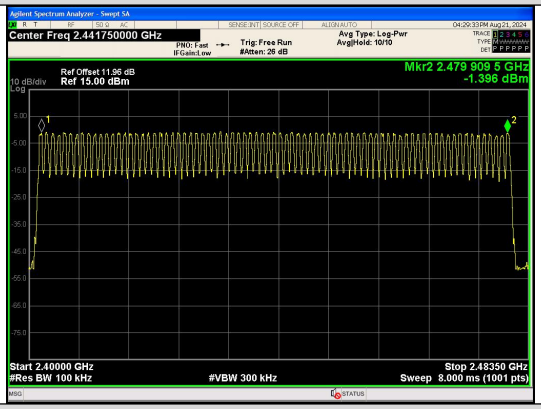
Hopping Plot
GFSK



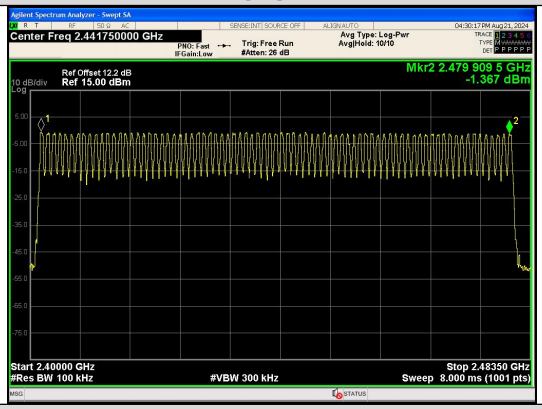
Hopping Plot
GFSK



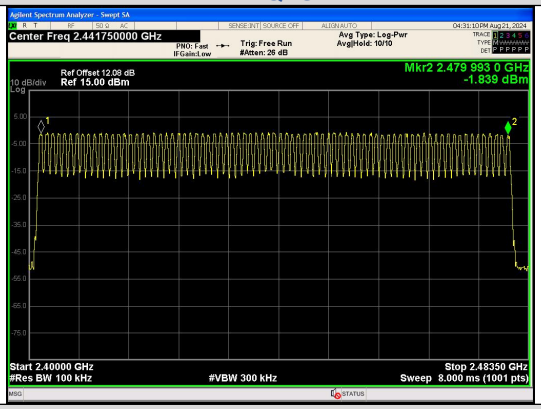
Hopping Plot
GFSK



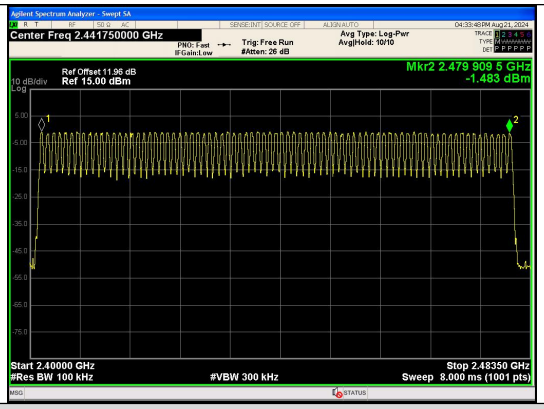
Hopping Plot
π/4DQPSK



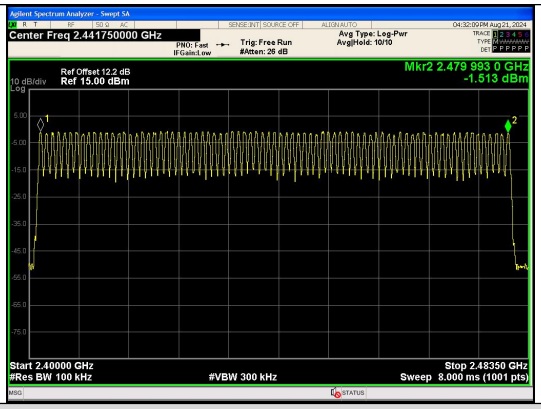
Hopping Plot
π/4DQPSK



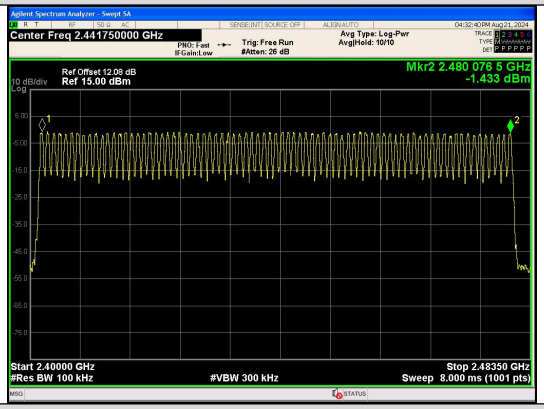
Hopping Plot
π/4DQPSK



Hopping Plot
8DPSK



Hopping Plot
8DPSK



Hopping Plot
8DPSK

APPENDIX IV.Conducted Peak 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	2.633	1.834	None	≤30	PASS
		39	3.009	1.999	None		PASS
		78	2.531	1.791	None		PASS
π/4DQPSK	2-DH5	0	0.139	1.033	None	≤20.97	PASS
		39	0.503	1.123	None		PASS
		78	0.059	1.014	None		PASS
8DPSK	3-DH5	0	0.561	1.138	None		PASS
		39	0.979	1.253	None		PASS
		78	0.476	1.116	None		PASS

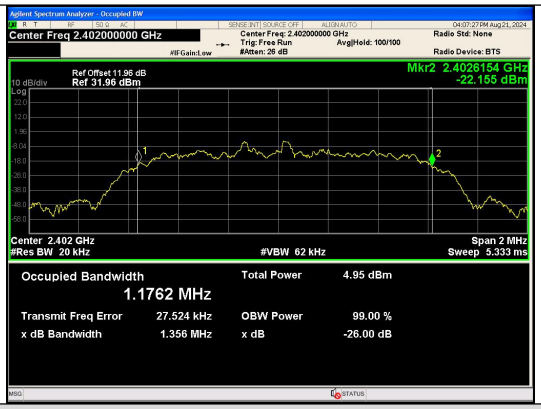
APPENDIX V.99% Bandwidth

Test Result

Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.82629
	39	2441	0.81567
	78	2480	0.86217
π/4DQPSK	0	2402	1.1762
	39	2441	1.1731
	78	2480	1.1810
8DPSK	0	2402	1.1832
	39	2441	1.1897
	78	2480	1.1951

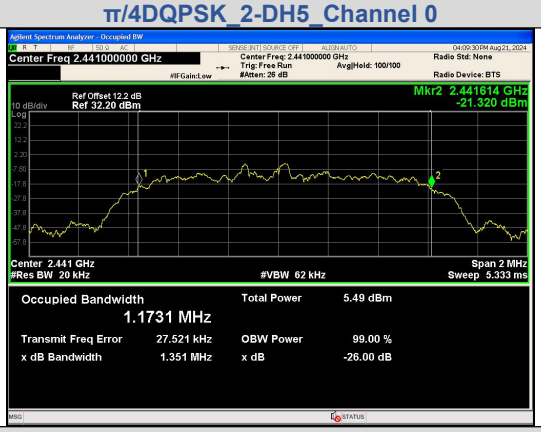
Test Graphs

GFSK_DH5_Channel 0



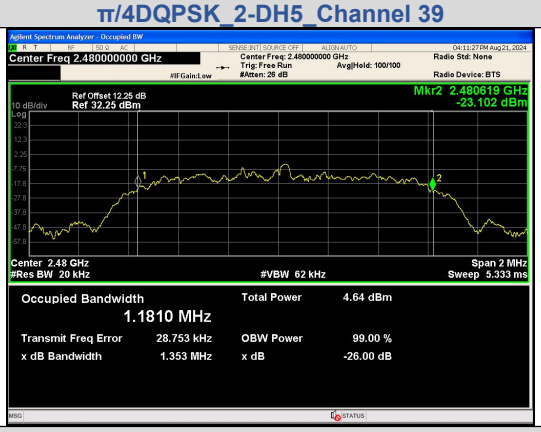
π/4DQPSK_2-DH5_Channel 0

GFSK_DH5_Channel 39

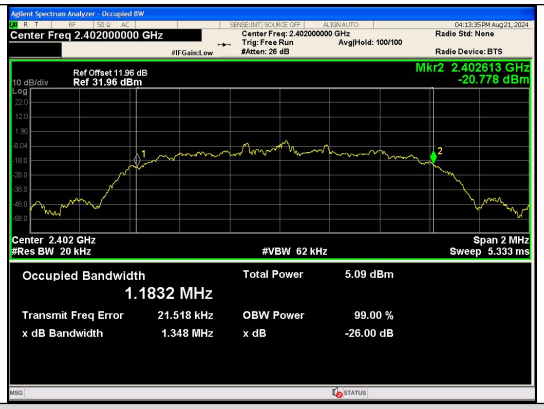


π/4DQPSK_2-DH5_Channel 39

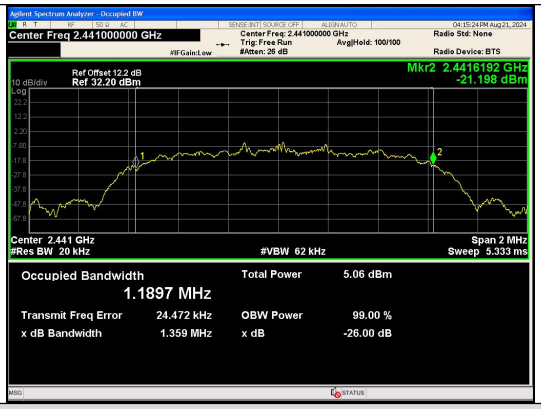
GFSK_DH5_Channel 78



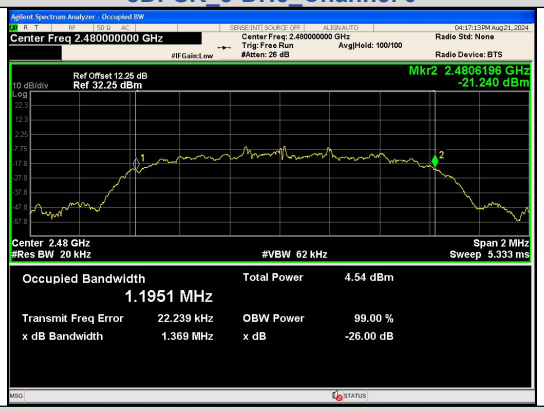
π/4DQPSK_2-DH5_Channel 78



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

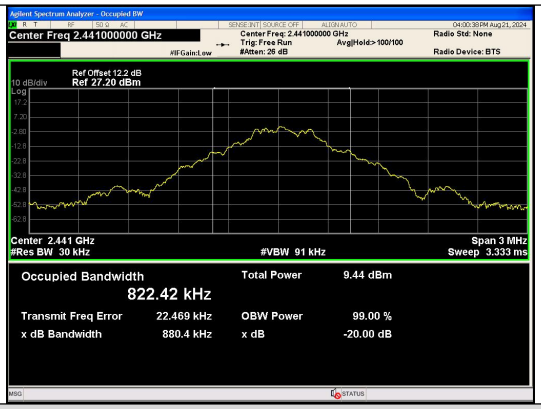
APPENDIX VI.20dB Bandwidth

Test Result

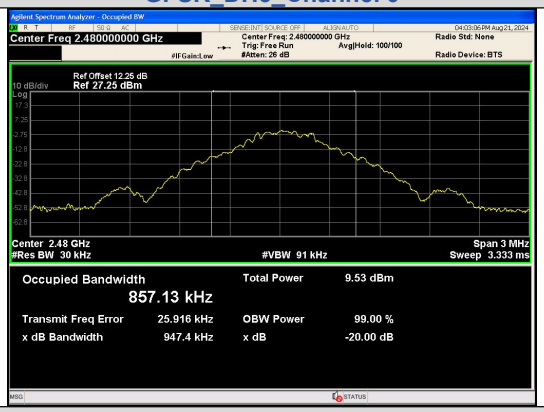
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.8814
	39	2441 MHz	0.8804
	78	2480 MHz	0.9474
π/4DQPSK	0	2402 MHz	1.275
	39	2441 MHz	1.281
	78	2480 MHz	1.279
8DPSK	0	2402 MHz	1.288
	39	2441 MHz	1.290
	78	2480 MHz	1.289

Test Graphs

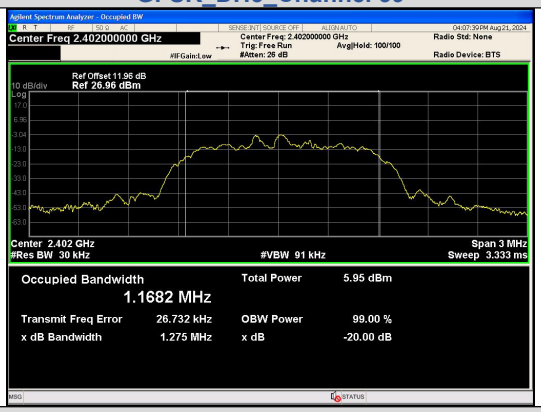
GFSK_DH5_Channel 0



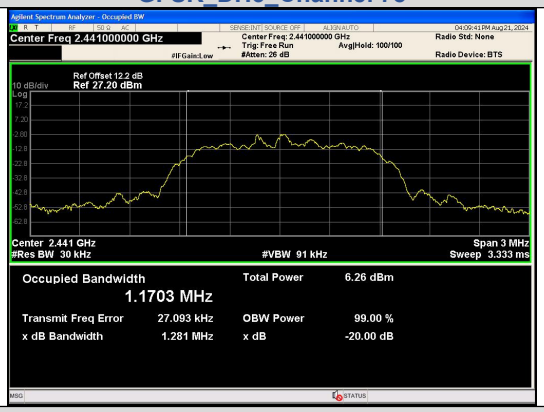
GFSK_DH5_Channel 39



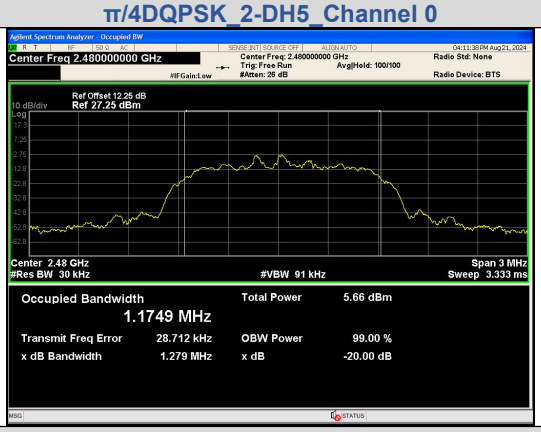
GFSK_DH5_Channel 78



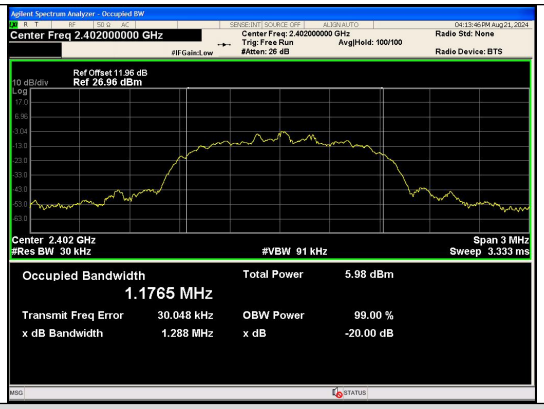
π/4DQPSK_2-DH5_Channel 0



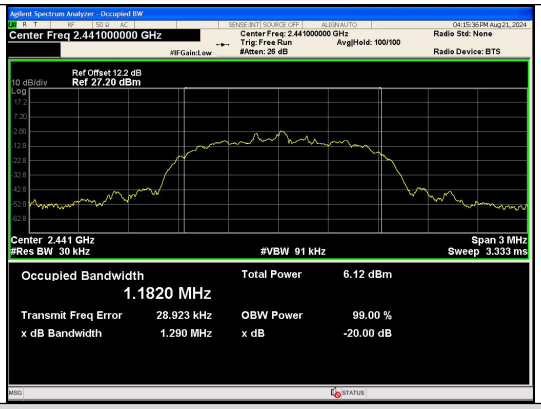
π/4DQPSK_2-DH5_Channel 39



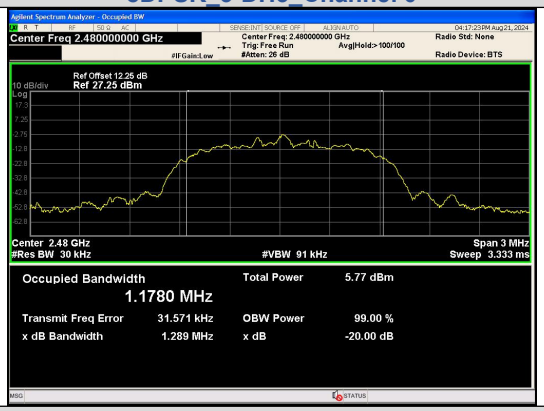
π/4DQPSK_2-DH5_Channel 78



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

APPENDIX VII.Carrier Frequencies Separation

Test Result

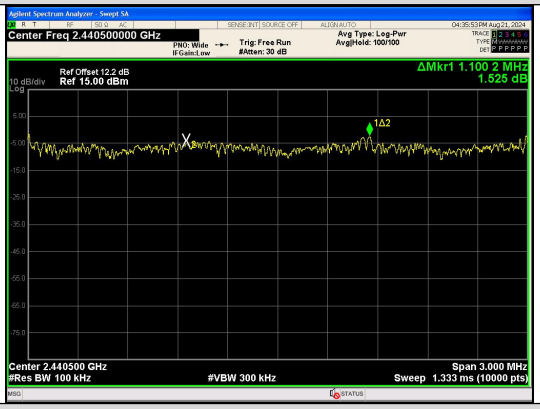
Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8692	2441.0204	1.1512	0.588	PASS
GFSK	DH5	2440.0339	2441.0222	0.9883	0.587	PASS
GFSK	DH5	2439.8866	2440.9982	1.1116	0.632	PASS
π/4DQPSK	2-DH5	2439.9505	2441.0507	1.1002	0.85	PASS
π/4DQPSK	2-DH5	2439.874	2441.1647	1.2907	0.854	PASS
π/4DQPSK	2-DH5	2439.8725	2440.8752	1.0027	0.853	PASS
8DPSK	3-DH5	2440.1734	2441.0417	0.8683	0.859	PASS
8DPSK	3-DH5	2439.8824	2440.8947	1.0123	0.86	PASS
8DPSK	3-DH5	2439.8923	2440.8965	1.0042	0.859	PASS

Test Graphs

GFSK

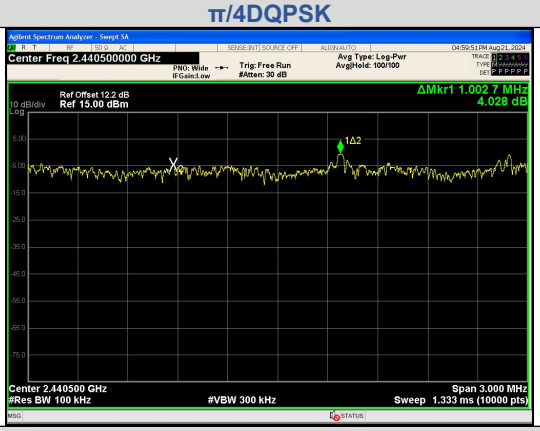
GFSK

GFSK



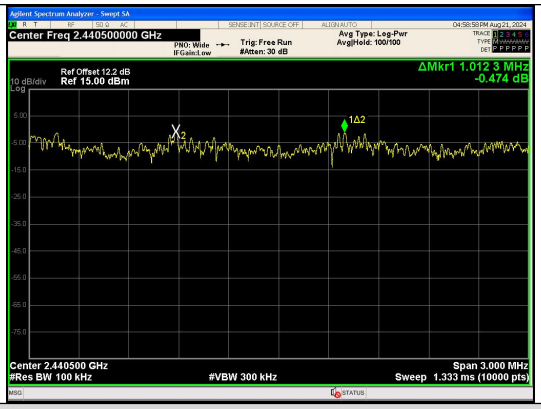
π/4DQPSK

π/4DQPSK

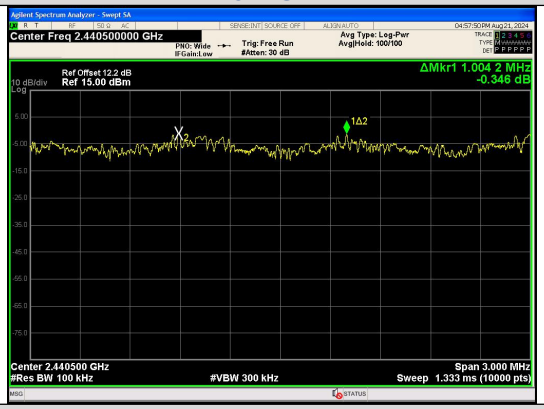


π/4DQPSK

8DPSK



8DPSK



8DPSK

APPENDIX VIII.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	-44.302	-17.4	-26.902	PASS
			4804.38	-64.256	-17.4	-46.856	PASS
			7205.93	-60.136	-17.4	-42.736	PASS
			9601.86	-36.503	-17.4	-19.103	PASS
			9607.48	-61.627	-17.4	-44.227	PASS
		39	4881.79	-52.366	-17.08	-35.286	PASS
			7322.67	-55.439	-17.08	-38.359	PASS
			9757.93	-38.992	-17.08	-21.912	PASS
			9764.80	-64.228	-17.08	-47.148	PASS
		78	2483.50	-46.815	-17.58	-29.235	PASS
			4959.83	-53.245	-17.58	-35.665	PASS
			7439.41	-57.095	-17.58	-39.515	PASS
			9914.00	-42.311	-17.58	-24.731	PASS
			9919.62	-62.821	-17.58	-45.241	PASS
π/4DQPSK	2-DH5	0	2400.00	-47.992	-20.83	-27.162	PASS
			4803.76	-57.388	-20.83	-36.558	PASS
			7205.93	-58.792	-20.83	-37.962	PASS
			9601.86	-37.672	-20.83	-16.842	PASS
			9607.48	-61.674	-20.83	-40.844	PASS
		39	4881.79	-55.703	-20.47	-35.233	PASS
			7322.67	-63.309	-20.47	-42.839	PASS
			9757.93	-40.456	-20.47	-19.986	PASS
			9764.80	-63.233	-20.47	-42.763	PASS
		78	2483.50	-50.981	-21.02	-29.961	PASS
			4959.83	-52.526	-21.02	-31.506	PASS
			7440.03	-62.543	-21.02	-41.523	PASS
			9914.00	-43.618	-21.02	-22.598	PASS
			9919.62	-62.131	-21.02	-41.111	PASS
8DPSK	3-DH5	0	2398.62	-47.656	-20.96	-26.696	PASS
			2400.00	-47.754	-20.96	-26.794	PASS
			4804.40	-57.496	-20.96	-36.536	PASS
			7206.60	-62.519	-20.96	-41.559	PASS
			9601.90	-37.805	-20.96	-16.845	PASS
			9608.70	-64.873	-20.96	-43.913	PASS
		39	4881.79	-52.250	-20.56	-31.690	PASS
			7322.05	-61.994	-20.56	-41.434	PASS
			9757.93	-40.385	-20.56	-19.825	PASS
			9763.55	-62.313	-20.56	-41.753	PASS
		78	2483.50	-50.707	-21.13	-29.577	PASS
			4960.45	-54.325	-21.13	-33.195	PASS
			7440.66	-62.195	-21.13	-41.065	PASS
			9914.00	-43.651	-21.13	-22.521	PASS
			9920.24	-64.412	-21.13	-43.282	PASS

Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2397.55	-47.533	-21.11	-26.423	PASS
			2400.00	-49.377	-21.11	-28.267	PASS
			2483.50	-51.711	-21.09	-30.621	PASS
			2397.57	-47.246	-20.98	-26.266	PASS
			2400.00	-49.662	-20.98	-28.682	PASS
			2483.50	-50.634	-21.19	-29.444	PASS
			2397.52	-47.436	-20.83	-26.606	PASS
			2400.00	-50.263	-20.83	-29.433	PASS
			2483.50	-50.622	-20.97	-29.652	PASS
π/4DQPSK	2-DH5		2397.51	-48.545	-20.83	-27.715	PASS
			2400.00	-49.777	-20.83	-28.947	PASS