

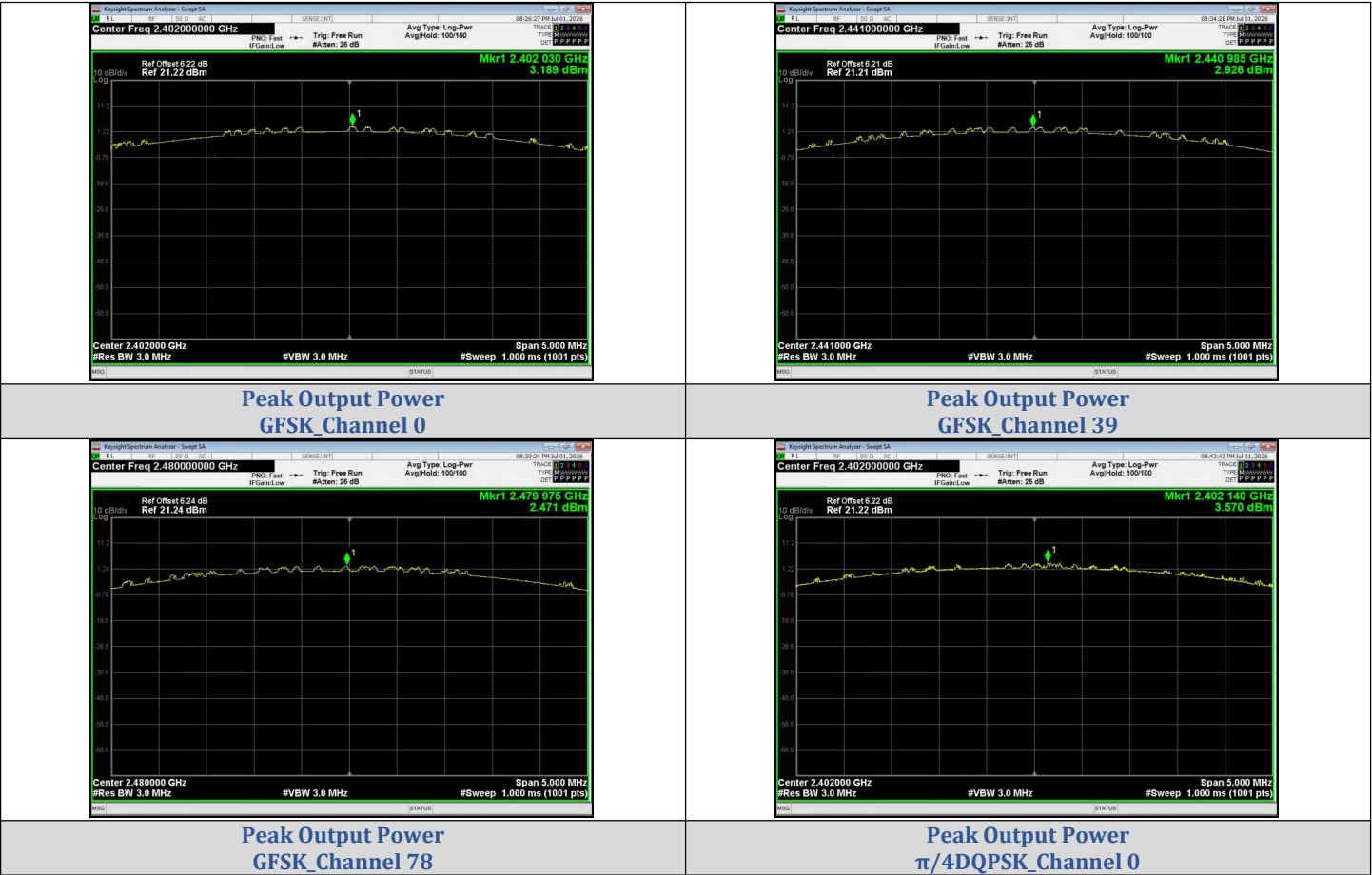
Appendix A:Test Results of Bluetooth BR & EDR

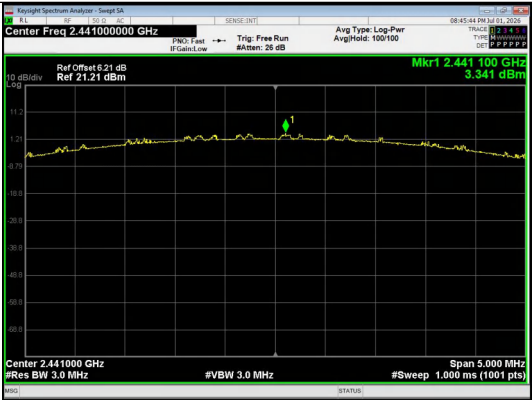
Conducted Output Power

Test Result

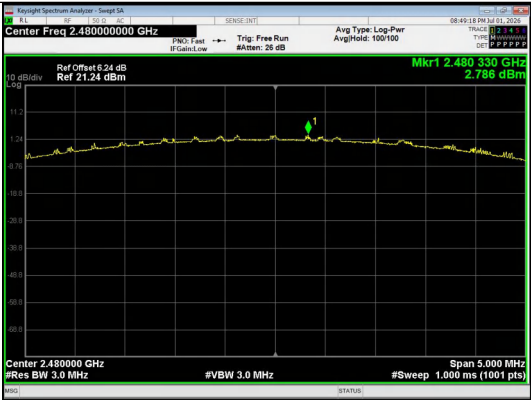
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	3.19	2.08	None	≤30	PASS
		39	2.93	1.96	None		PASS
		78	2.47	1.77	None		PASS
π /4DQPSK	2-DH5	0	3.57	2.28	None		PASS
		39	3.34	2.16	None		PASS
		78	2.79	1.90	None		PASS
8DPSK	3-DH5	0	3.38	2.18	None		PASS
		39	3.13	2.06	None		PASS
		78	2.73	1.88	None		PASS

Test Graphs

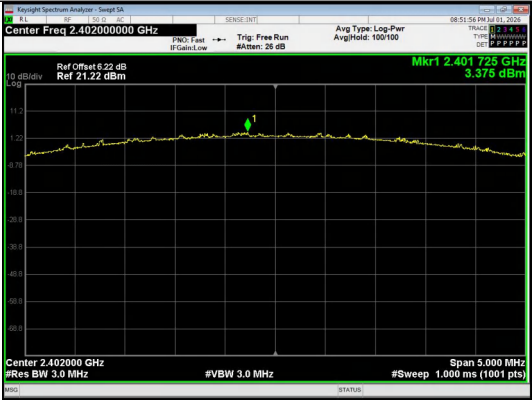




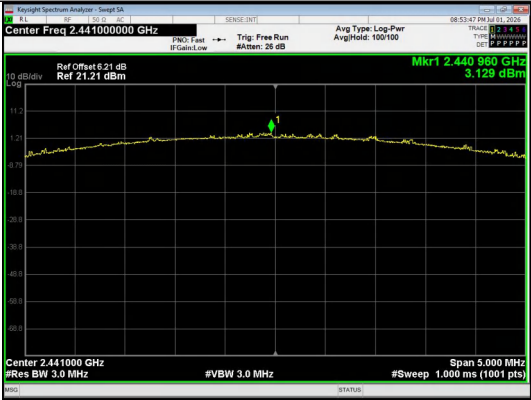
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



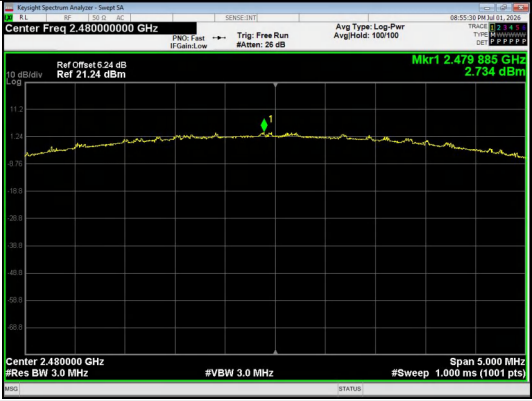
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



Peak Output Power
8DPSK_Channel 78

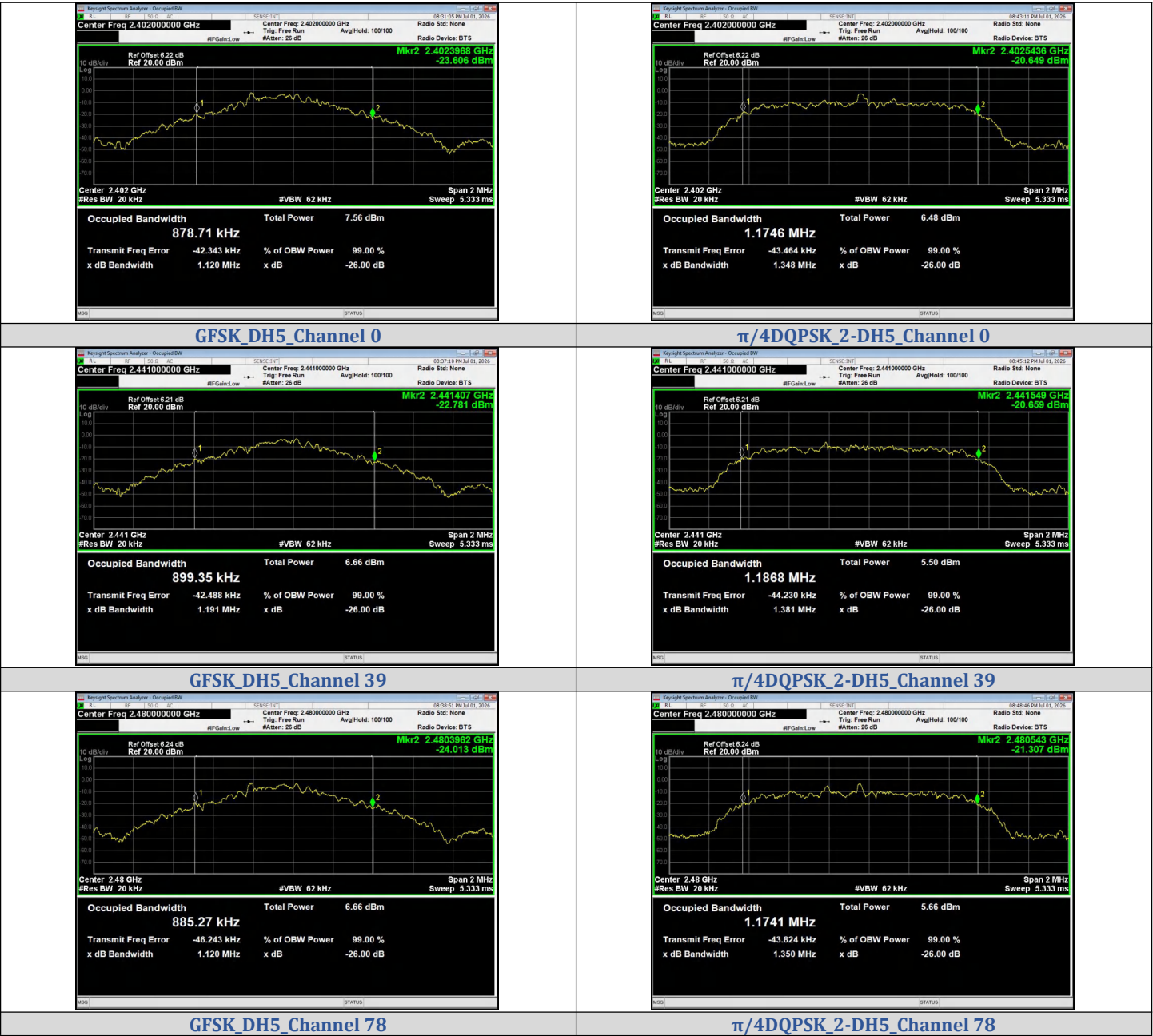
FCC ID:2BD2U-T58

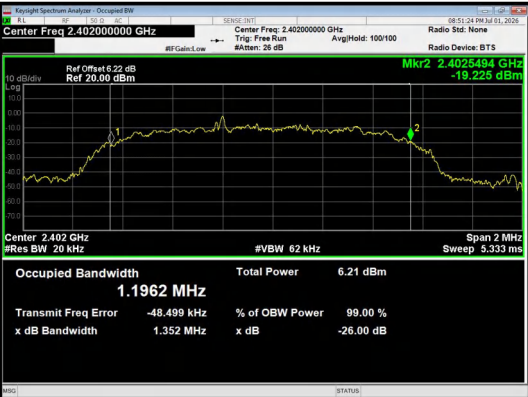
99% Bandwidth

Test Result

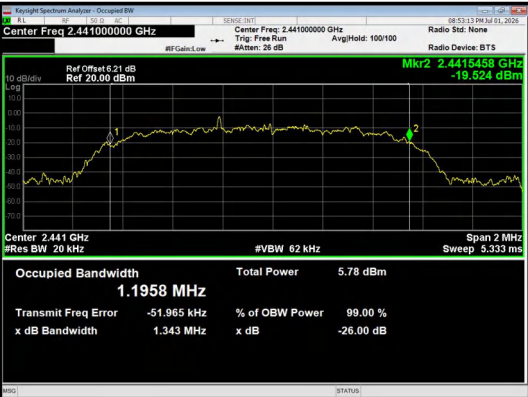
Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.87871
	39	2441	0.89935
	78	2480	0.88527
$\pi/4$ DQPSK	0	2402	1.1746
	39	2441	1.1868
	78	2480	1.1741
8DPSK	0	2402	1.1962
	39	2441	1.1958
	78	2480	1.1993

Test Graphs

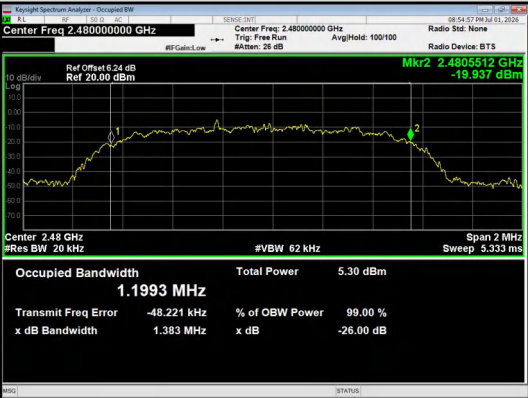




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



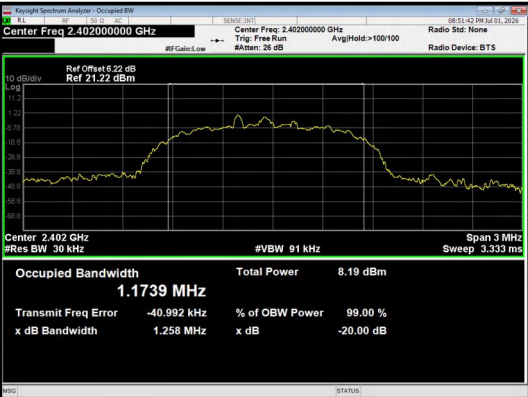
8DPSK_3-DH5_Channel 78

FCC ID:2BD2U-T58
20dB Bandwidth
Test Result

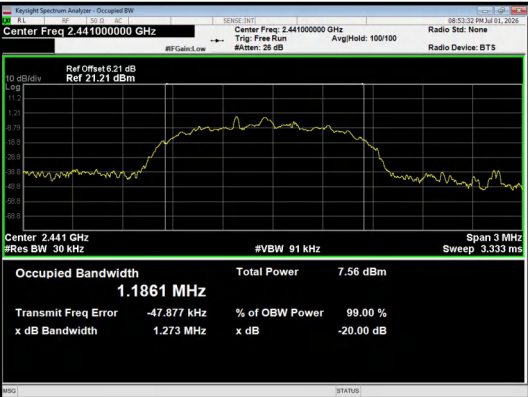
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9482
	39	2441 MHz	0.9460
	78	2480 MHz	1.006
$\pi/4$ DQPSK	0	2402 MHz	1.273
	39	2441 MHz	1.275
	78	2480 MHz	1.275
8DPSK	0	2402 MHz	1.258
	39	2441 MHz	1.273
	78	2480 MHz	1.274

Test Graphs

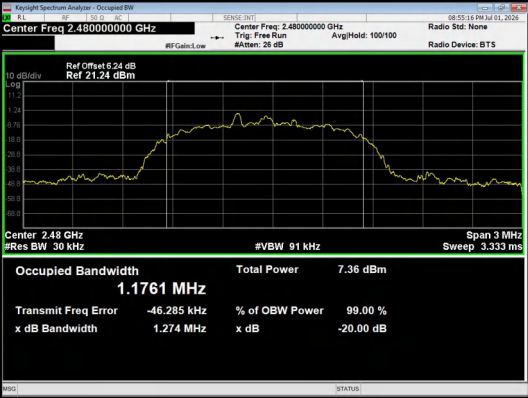




8DPSK_3-DH5_Channel 0



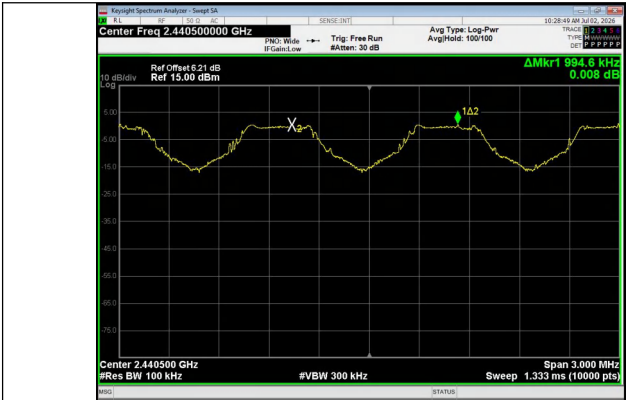
8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

Test Graphs

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.0351	2441.0297	0.9946	0.671	PASS
$\pi/4$ DQPSK	2-DH5	2439.7984	2440.7996	1.0012	0.85	PASS
8DPSK	3-DH5	2439.7927	2440.7921	0.9994	0.849	PASS



GFSK



$\pi/4$ DQPSK



8DPSK

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Conducted Spurious & Band Edge Emission

Test Result

Non-Hopping

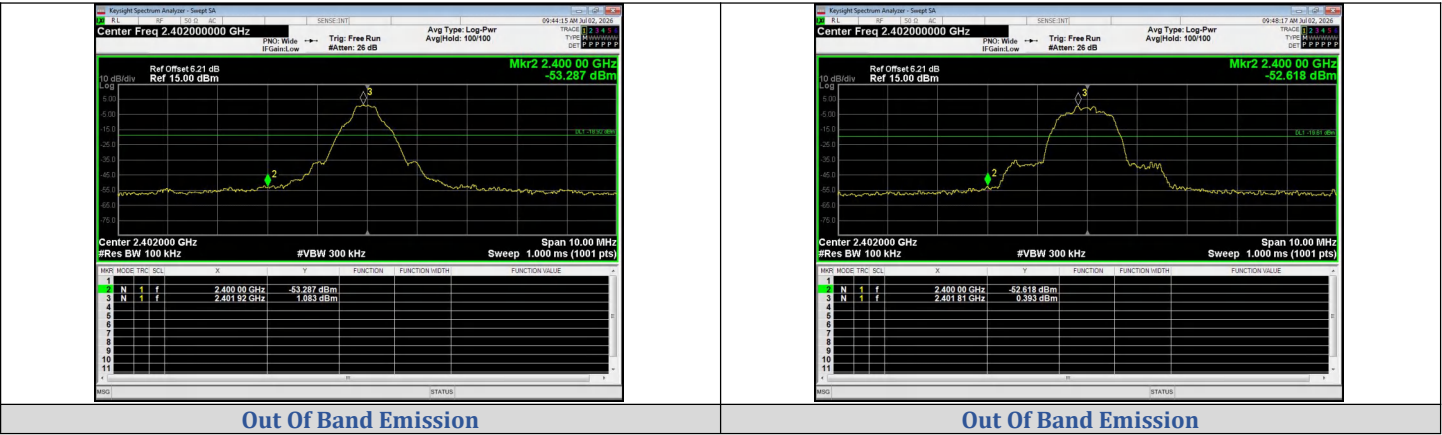
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-53.287	-18.92	-34.367	PASS
			7205.75	-40.783	-18.92	-21.863	PASS
		39	7323.11	-39.161	-19.91	-19.251	PASS
		78	2483.50	-56.548	-19.02	-37.528	PASS
			7439.85	-40.449	-19.02	-21.429	PASS
π /4DQPSK	2-DH5	0	2400.00	-52.618	-19.61	-33.008	PASS
			7205.75	-41.243	-19.61	-21.633	PASS
		39	7323.11	-46.228	-20.09	-26.138	PASS
		78	2483.50	-55.757	-20.29	-35.467	PASS
			2492.04	-46.312	-20.29	-26.022	PASS
8DPSK	3-DH5	0	2400.00	-54.797	-19.46	-35.337	PASS
			7206.38	-44.626	-19.46	-25.166	PASS
		39	7323.11	-44.141	-19.79	-24.351	PASS
		78	2483.50	-57.408	-19.88	-37.528	PASS
			7439.85	-40.428	-19.88	-20.549	PASS

Note: input compensation coefficient (dB)= Cable Loss (dB)

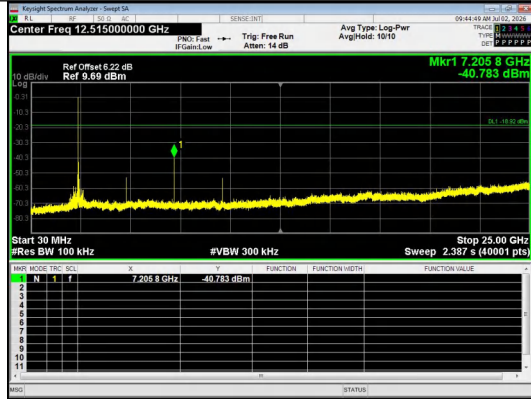
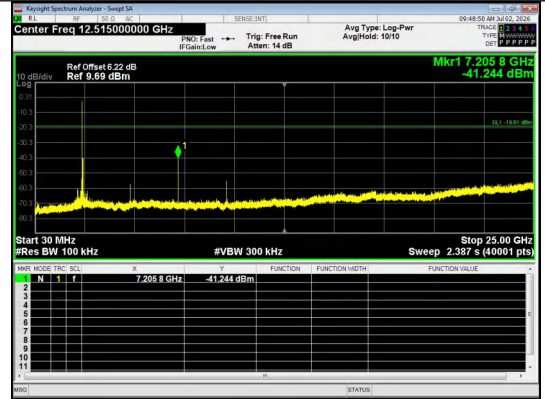
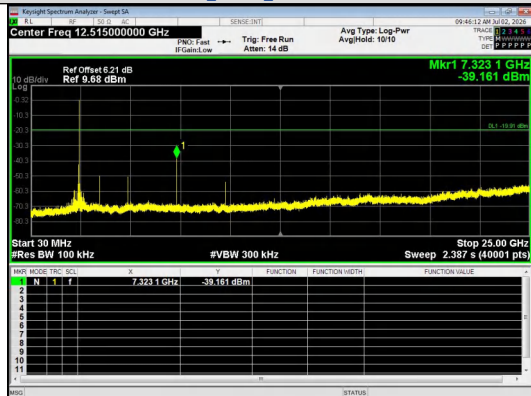
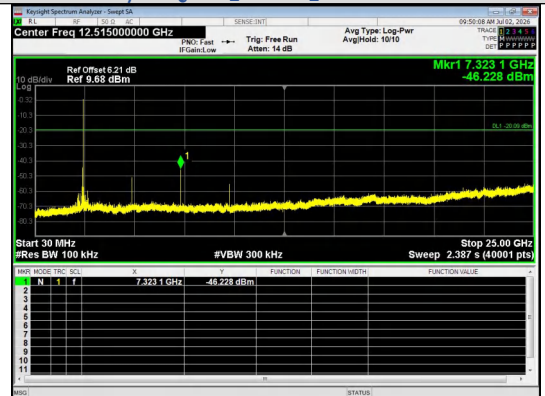
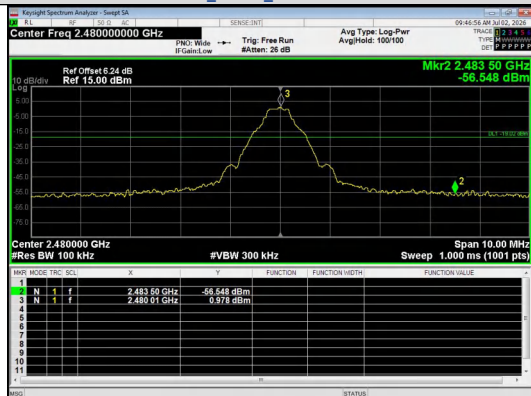
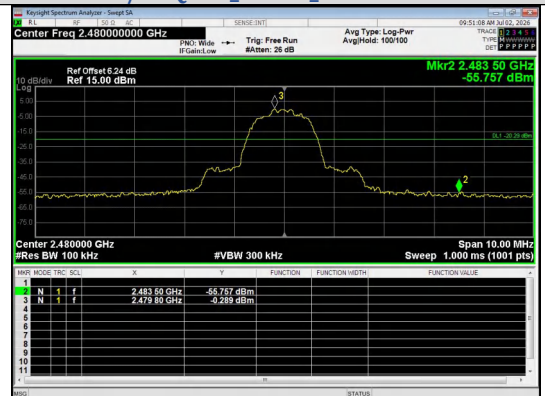
Hopping

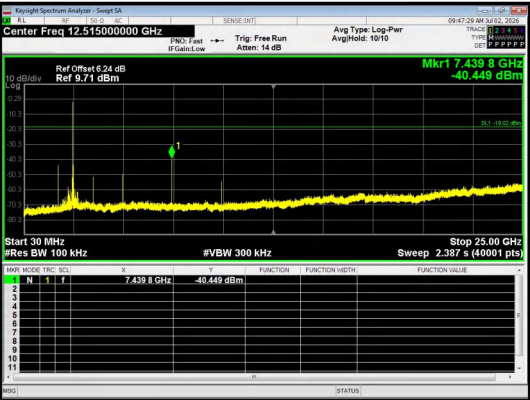
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2394.29	-41.787	-17.88	-23.907	PASS
			2400.00	-42.317	-17.88	-24.437	PASS
			2483.50	-44.231	-19.54	-24.691	PASS
π/4DQPSK	2-DH5		2389.99	-44.801	-23.1	-21.701	PASS
			2400.00	-46.637	-23.1	-23.537	PASS
			2483.50	-48.490	-23.98	-24.510	PASS
8DPSK	3-DH5		2390.93	-43.859	-23.05	-20.809	PASS
			2400.00	-45.263	-23.05	-22.213	PASS
			2483.50	-47.348	-23.94	-23.408	PASS
Note: input compensation coefficient (dB)= Cable Loss (dB)							

Test Graphs

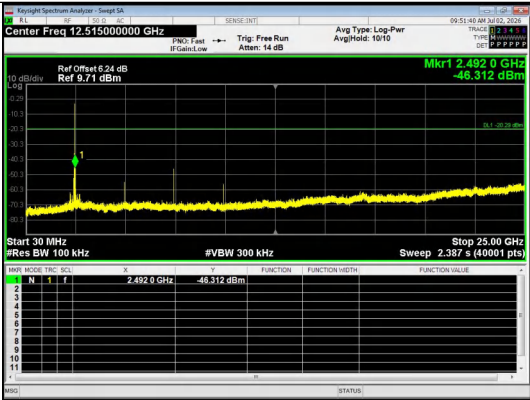


GFSK_DH5_Channel 0

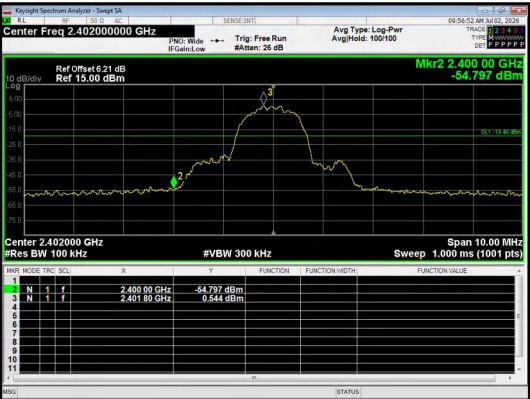
 $\pi/4$ DQPSK_2-DH5_Channel 030.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 030.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0Out Of Band Emission
GFSK_DH5_Channel 39Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 3930.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 3930.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39Out Of Band Emission
GFSK_DH5_Channel 78Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



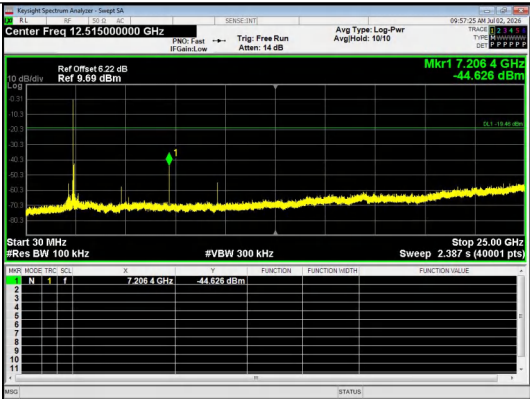
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



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



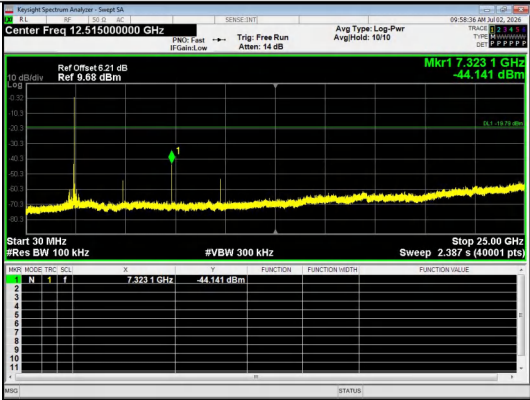
Out Of Band Emission
8DPSK_3-DH5_Channel 0



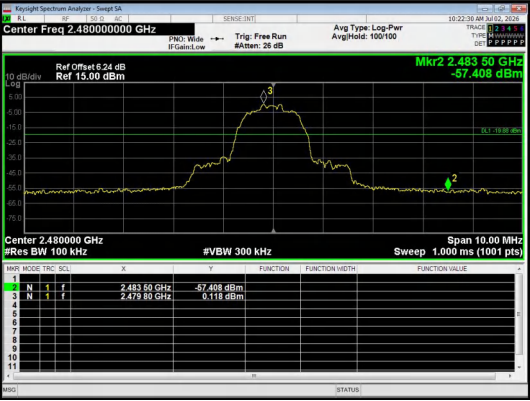
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



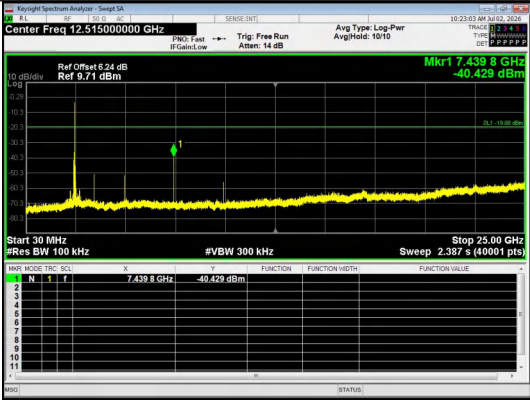
Out Of Band Emission
8DPSK_3-DH5_Channel 39



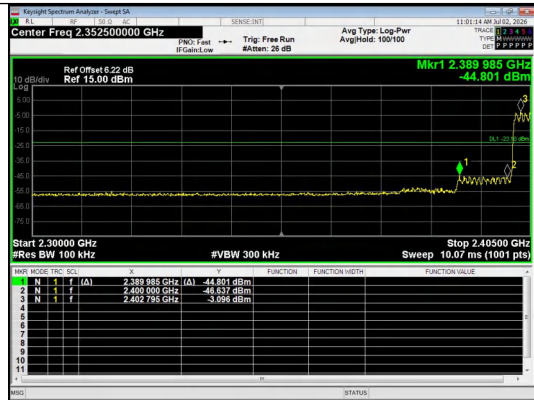
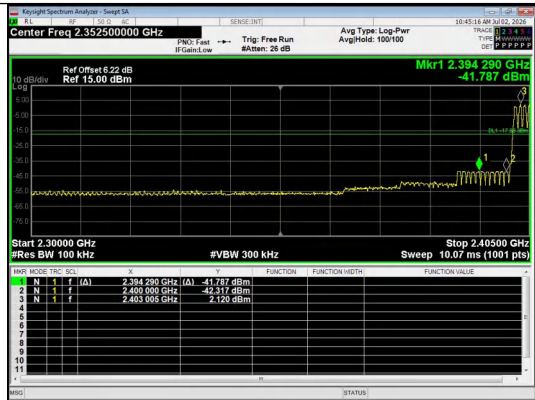
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



Out Of Band Emission

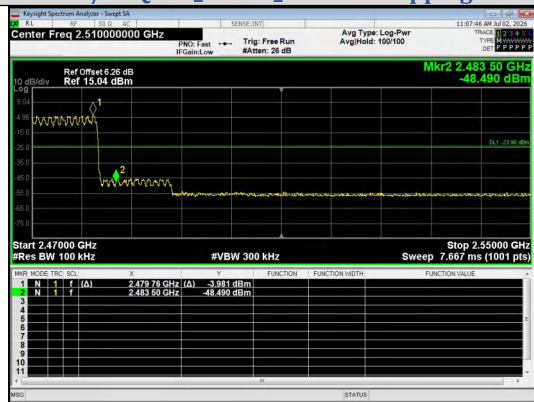
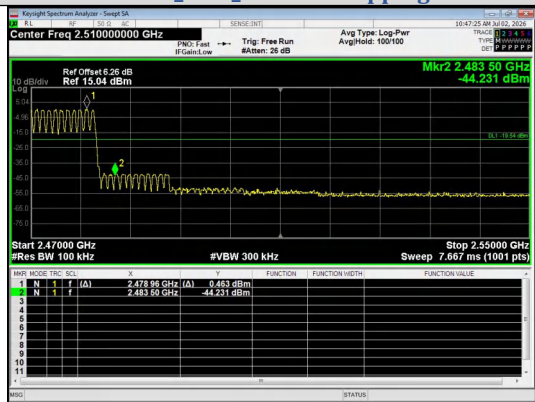


30.0 MHz - 25000.0 MHz



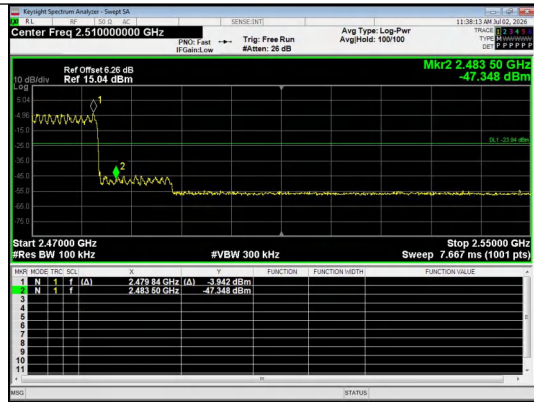
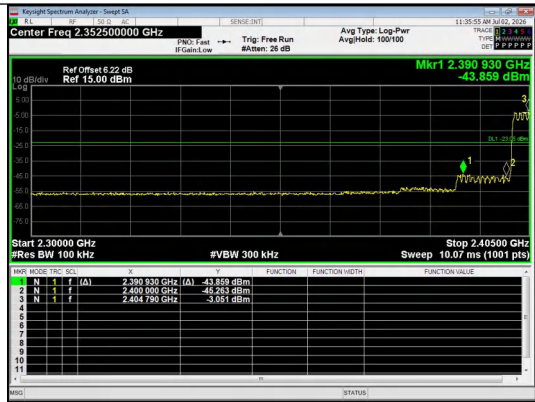
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping

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

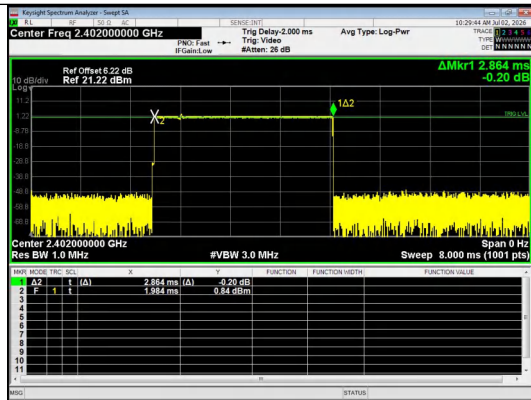
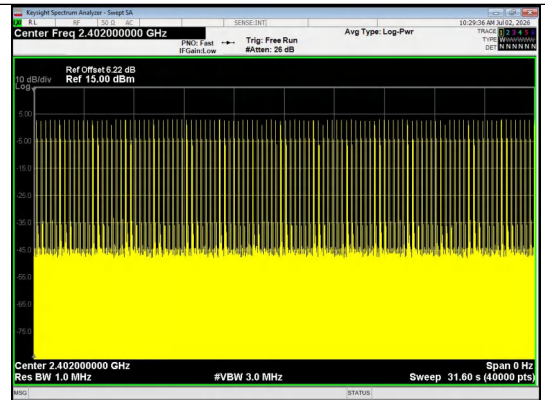
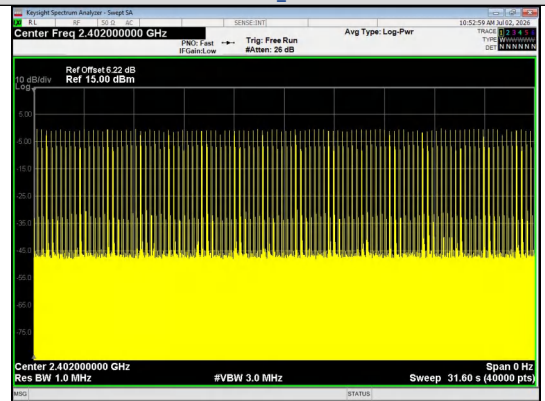
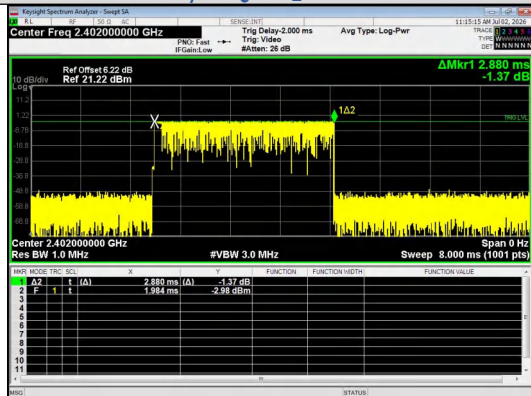
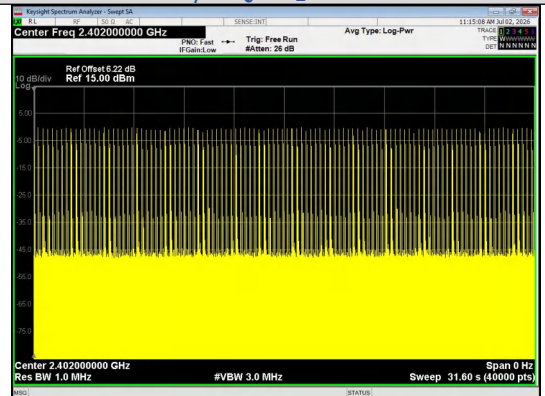
Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping

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	Hopping	2.864	107	306.45	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.880	106	305.28		PASS
8DPSK	3-DH5		2.880	106	305.28		PASS
Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds							

Test Graphs

Pulse Width
GFSK_DH5Number of Pulses in 31.6 seconds
GFSK_DH5Pulse Width
 $\pi/4$ DQPSK_2-DH5Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5Pulse Width
8DPSK_3-DH5Number of Pulses in 31.6 seconds
8DPSK_3-DH5

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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



