

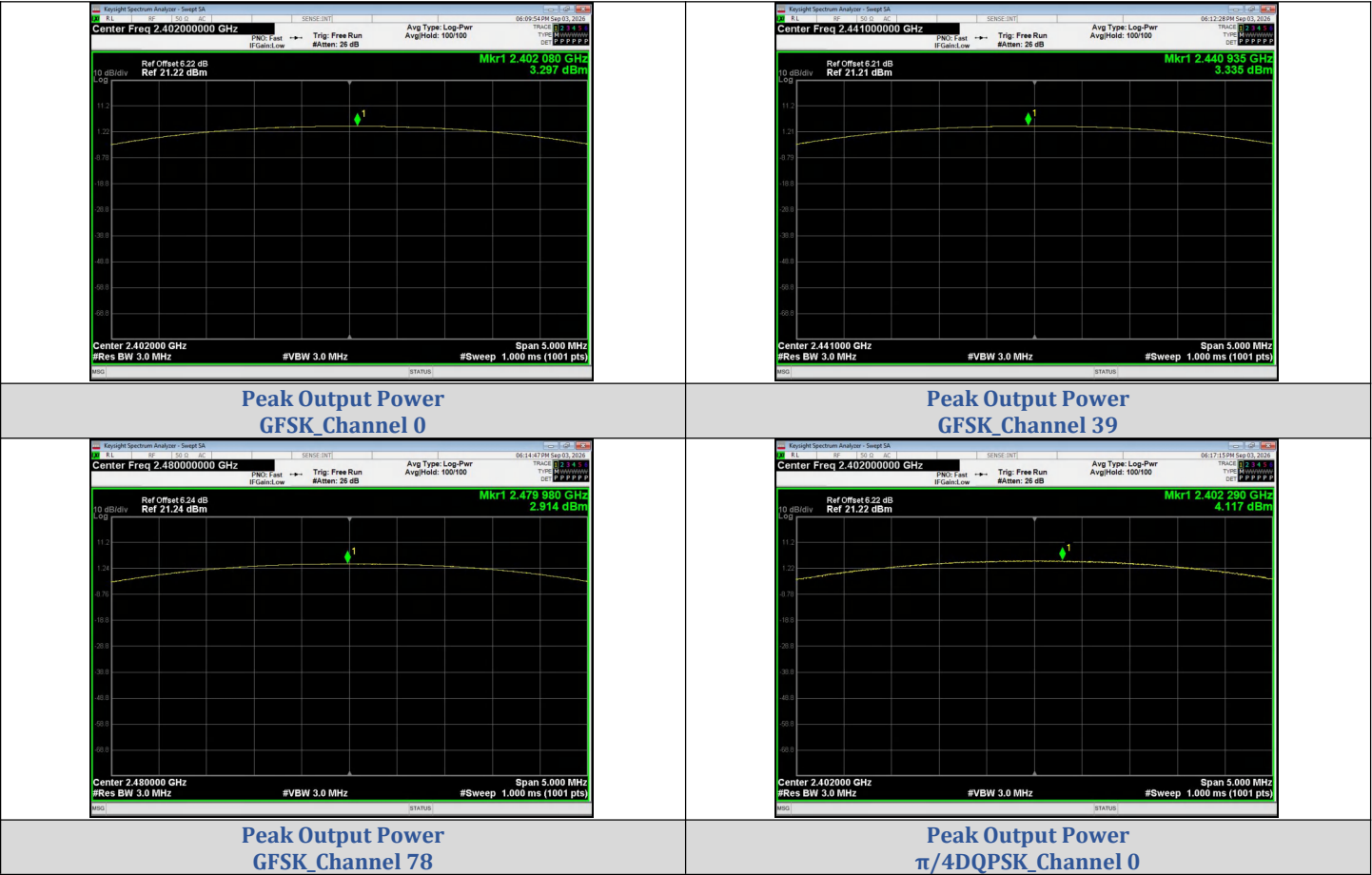
Appendix A:Test Results of Bluetooth BR & EDR

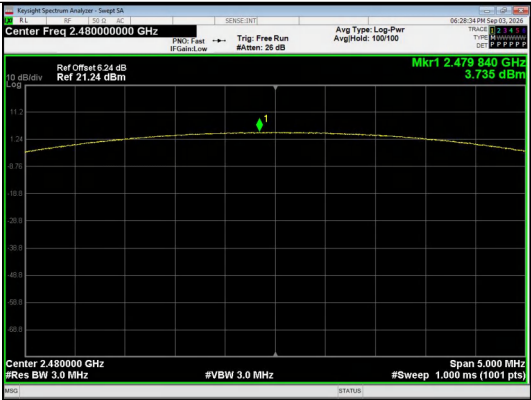
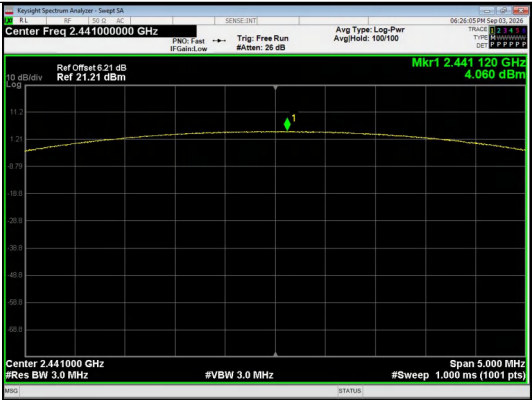
Conducted Output Power

Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Verdict
GFSK	DH5	0	3.297	2.14	None	30	PASS
		39	3.335	2.16	None		PASS
		78	2.914	1.96	None		PASS
π /4DQPSK	2-DH5	0	4.117	2.58	None		PASS
		39	4.060	2.55	None		PASS
		78	3.735	2.36	None		PASS
8DPSK	3-DH5	0	4.522	2.83	None		PASS
		39	4.401	2.75	None		PASS
		78	4.073	2.55	None		PASS

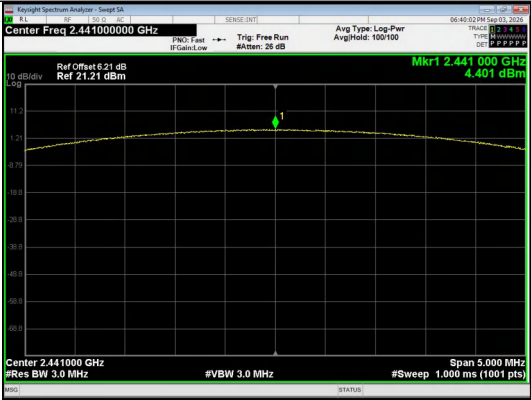
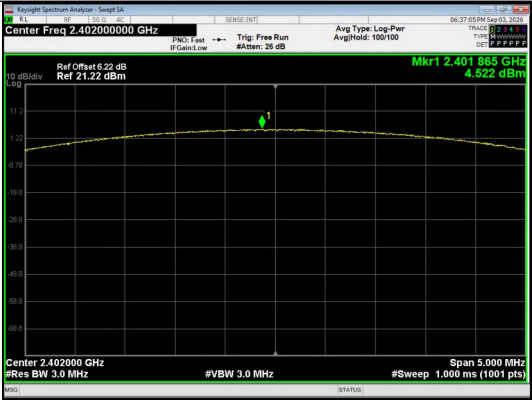
Test Graphs





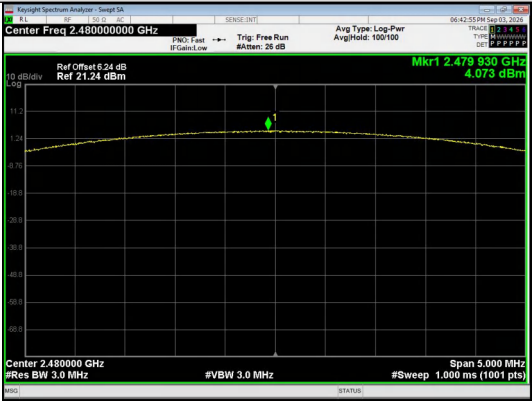
Peak Output Power
 π /4DQPSK_Channel 39

Peak Output Power
 π /4DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0

Peak Output Power
8DPSK_Channel 78



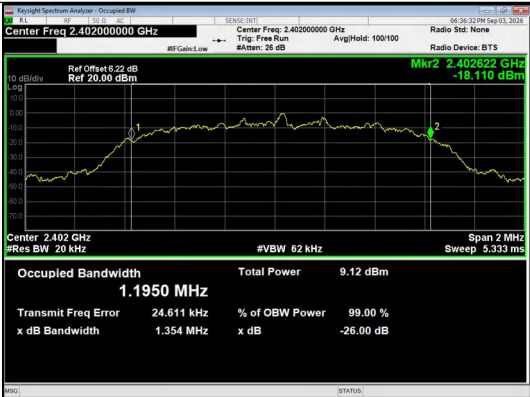
Peak Output Power
8DPSK_Channel 78

Test Result

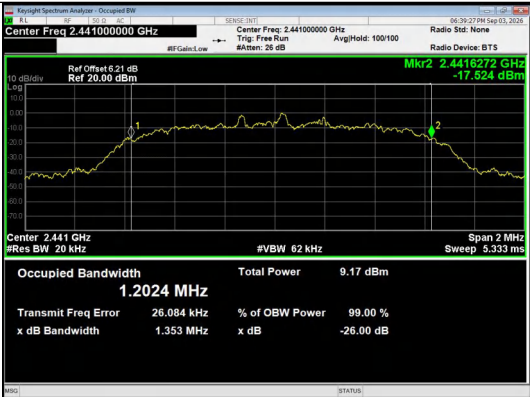
Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.89
	39	2441	0.89
	78	2480	0.89
$\pi/4$ DQPSK	0	2402	1.18
	39	2441	1.19
	78	2480	1.20
8DPSK	0	2402	1.20
	39	2441	1.20
	78	2480	1.20

Test Graphs

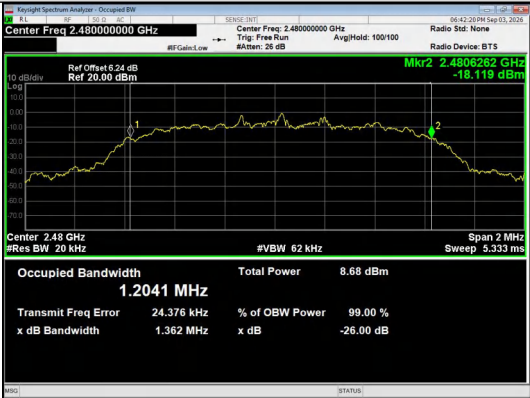




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39

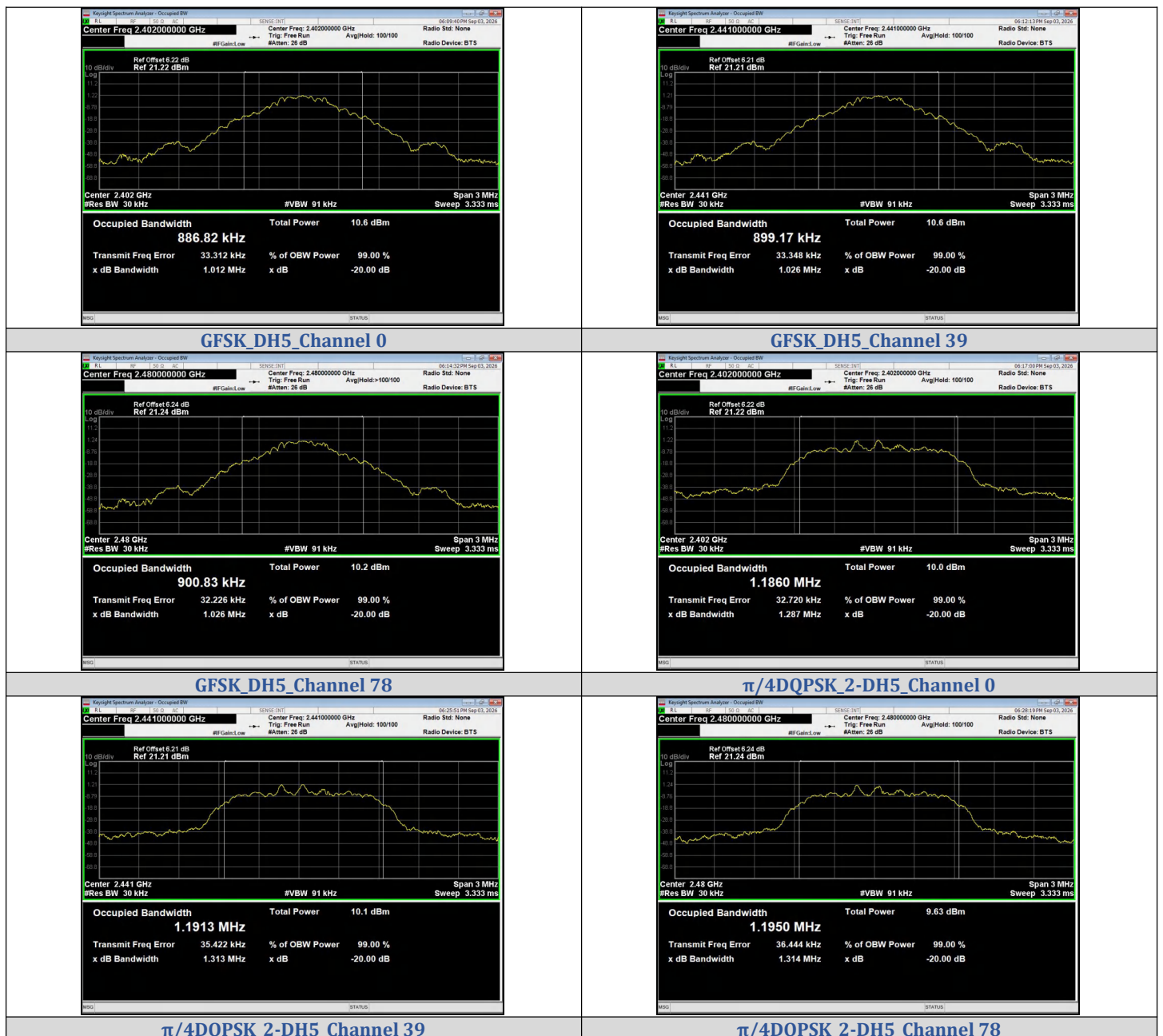


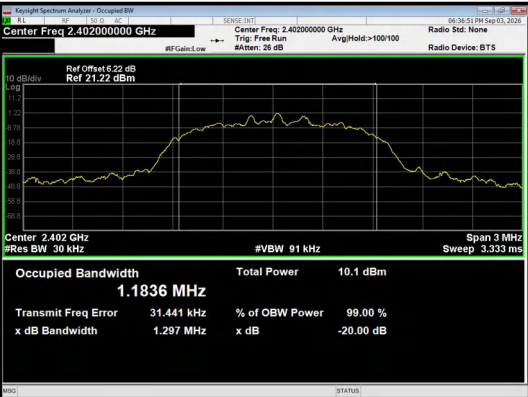
8DPSK_3-DH5_Channel 78

FCC ID:2BXCS-S08
20dB Bandwidth
Test Result

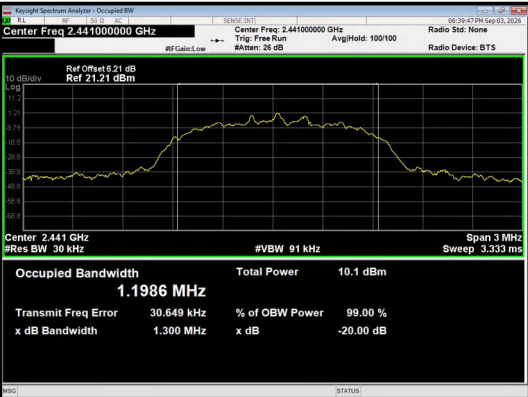
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.012
	39	2441 MHz	1.026
	78	2480 MHz	1.026
$\pi/4$ DQPSK	0	2402 MHz	1.287
	39	2441 MHz	1.313
	78	2480 MHz	1.314
8DPSK	0	2402 MHz	1.297
	39	2441 MHz	1.300
	78	2480 MHz	1.301

Test Graphs

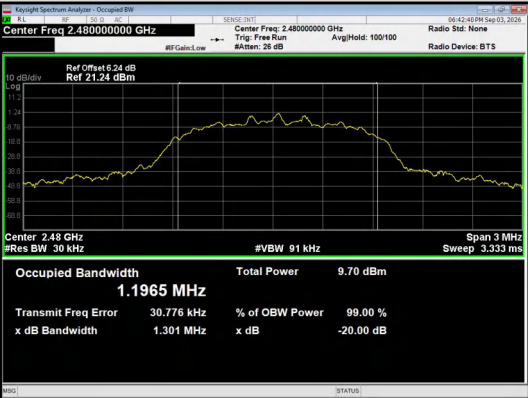




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

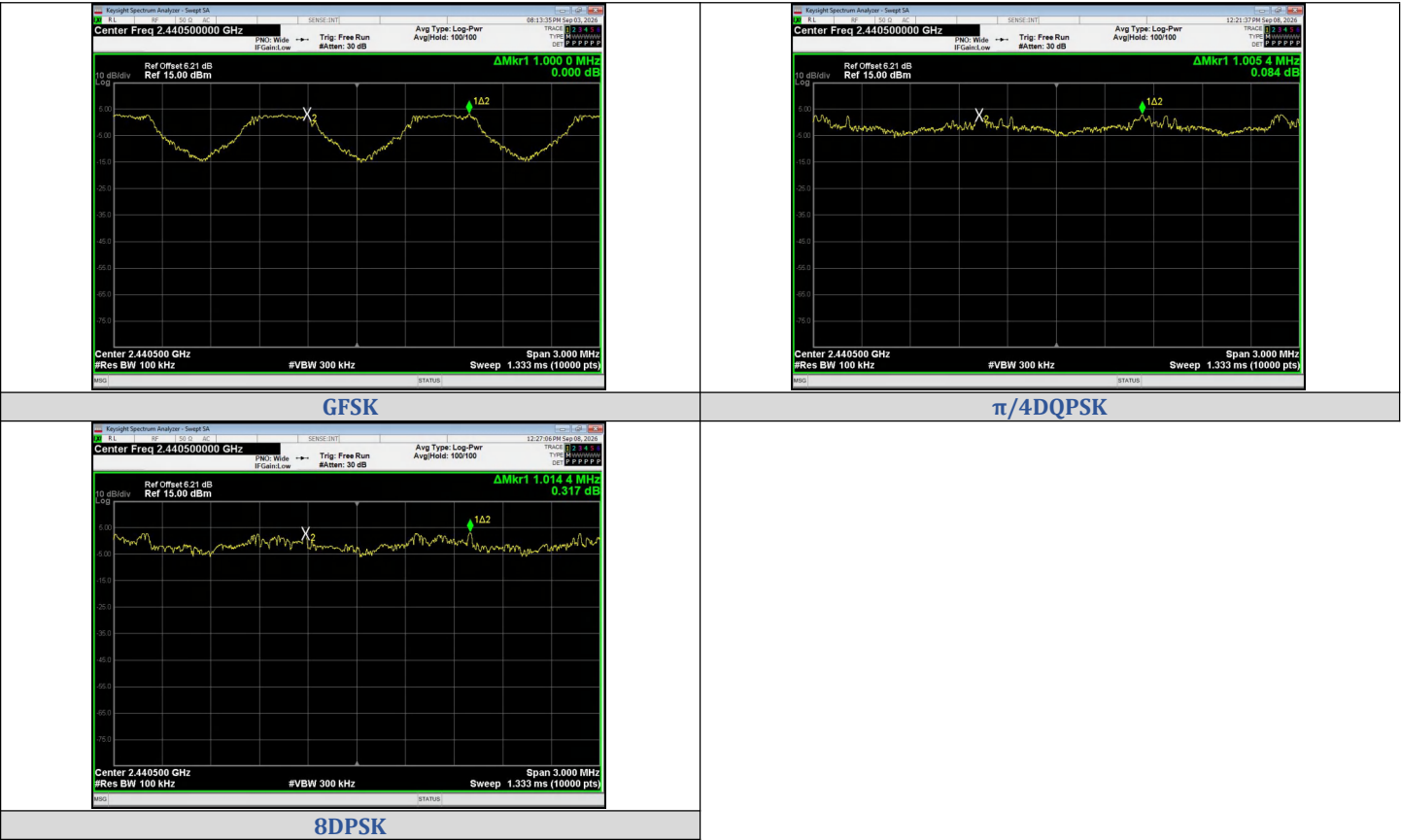
FCC ID:2BXCS-S08

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Minimum Limit (MHz)	Verdict
GFSK	DH5	2440.1914	2441.1914	1.0000	0.684	PASS
$\pi/4$ DQPSK	2-DH5	2440.0225	2441.0279	1.0054	0.876	PASS
8DPSK	3-DH5	2440.1821	2441.1965	1.0144	0.867	PASS

Test Graphs



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)	Verdict
GFSK	DH5	0	2400.00	-44.854	-16.75	-28.104	PASS
			9607.87	-37.731	-16.75	-20.981	PASS
		39	4882.30	-36.620	-16.74	-19.880	PASS
			2483.50	-55.597	-17.18	-38.417	PASS
			4960.33	-37.177	-17.18	-19.997	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-48.244	-16.80	-31.444	PASS
			9607.87	-37.669	-16.80	-20.869	PASS
		39	4882.30	-38.003	-16.78	-21.223	PASS
			2483.50	-57.066	-17.16	-39.906	PASS
			4960.33	-39.398	-17.16	-22.238	PASS
8DPSK	3-DH5	0	2400.00	-47.028	-16.87	-30.158	PASS
			9607.87	-37.807	-16.87	-20.937	PASS
		39	9763.93	-39.319	-16.75	-22.569	PASS
			2483.50	-56.772	-17.11	-39.662	PASS
			4960.33	-36.151	-17.11	-19.041	PASS

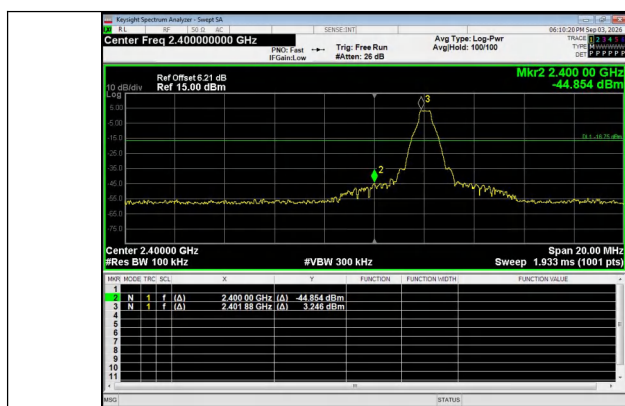
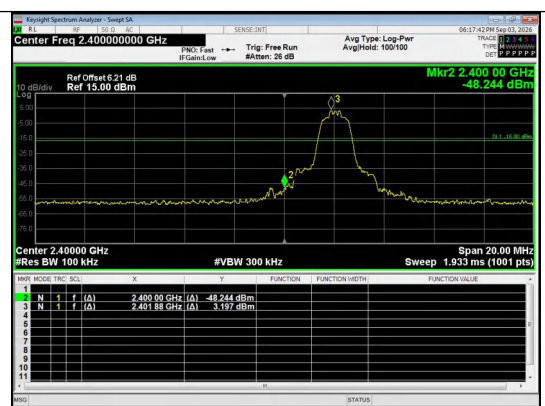
Note: input compensation coefficient (dB)= Cable Loss (dB)

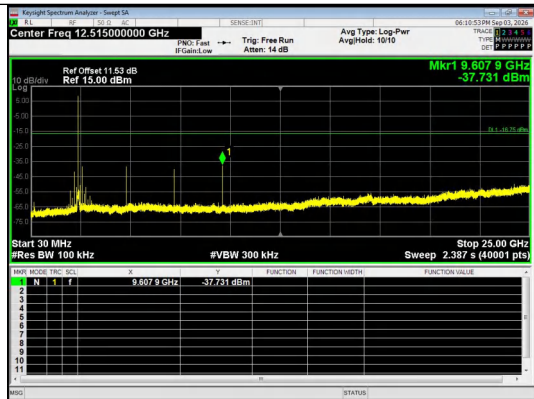
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Verdict
GFSK	DH5	Hopping	2351.97	-50.563	-16.88	-33.683	PASS
			2400.00	-52.502	-16.88	-35.622	PASS
			2483.50	-54.820	-17.17	-37.650	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-47.625	-16.94	-30.685	PASS
			2483.50	-55.851	-17.13	-38.721	PASS
			8DPSK	3-DH5	2375.07	-51.880	-16.87
2400.00	-52.696				-16.87	-35.826	PASS
2483.50	-55.616				-17.18	-38.436	PASS

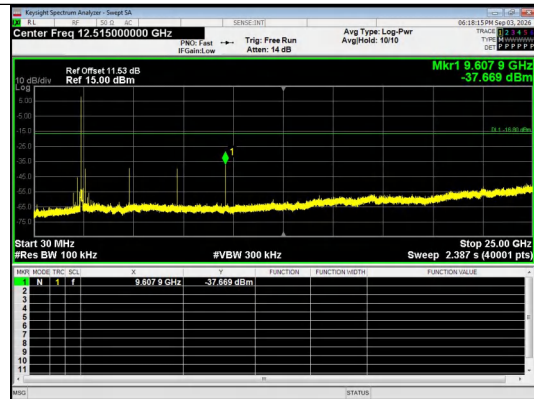
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

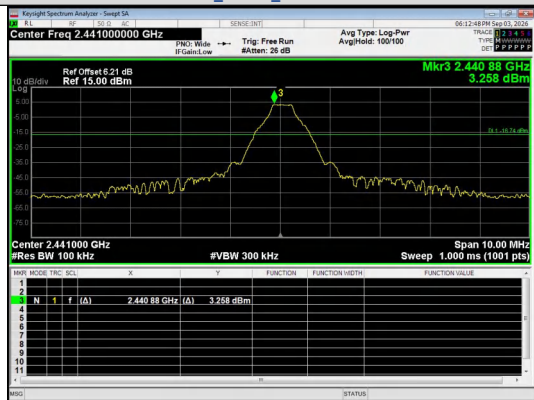
Out Of Band Emission
GFSK_DH5_Channel 0Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



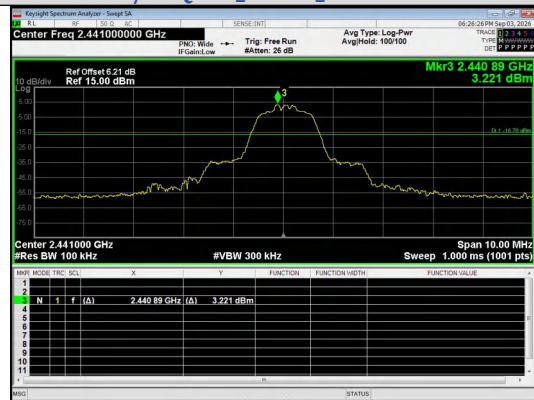
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



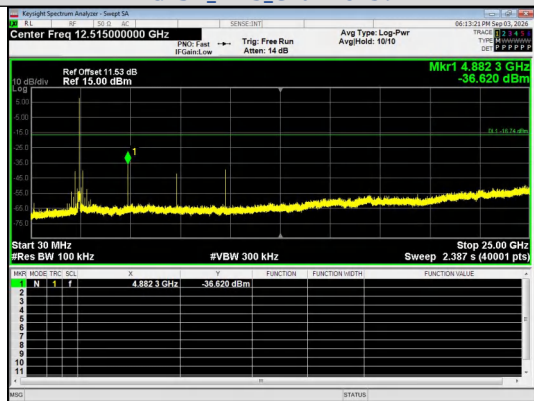
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



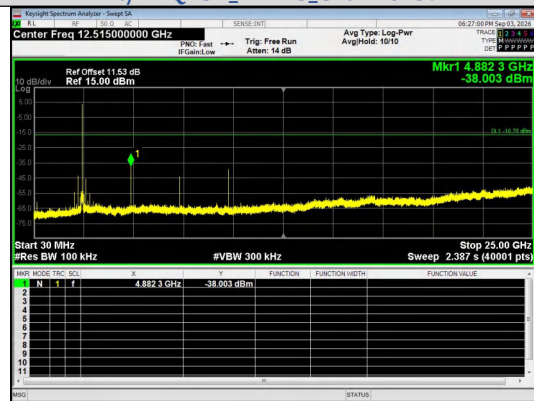
Out Of Band Emission
GFSK_DH5_Channel 39



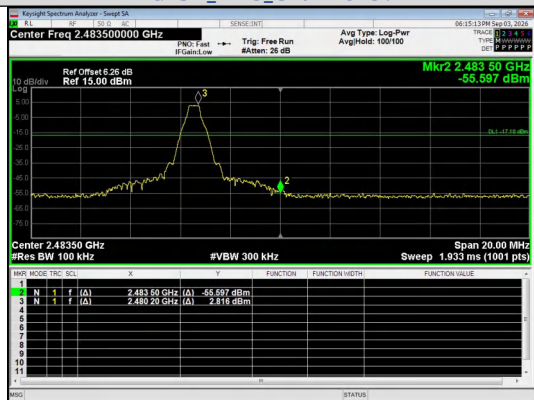
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



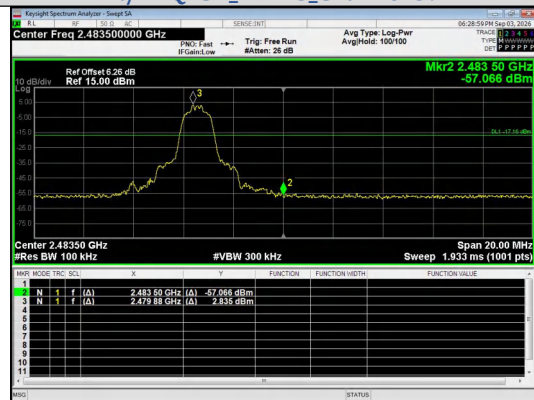
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



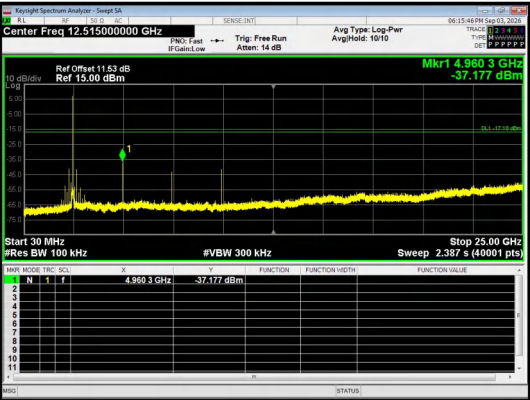
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



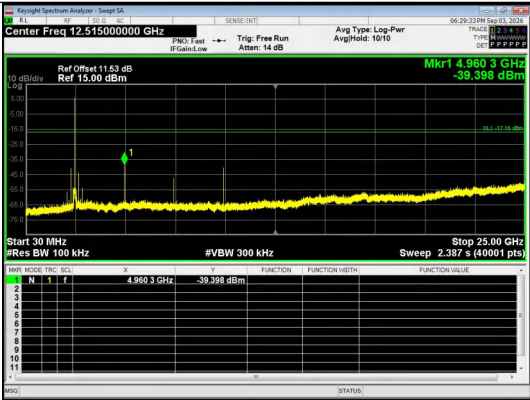
Out Of Band Emission
GFSK_DH5_Channel 78



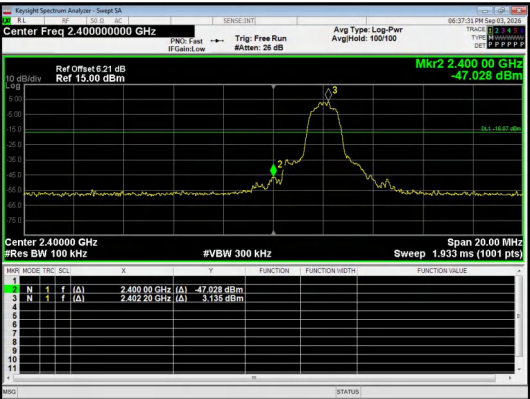
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



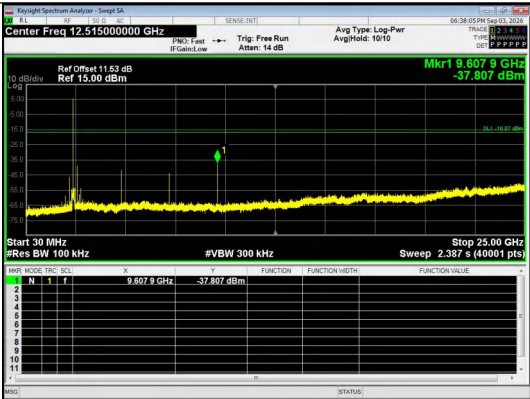
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



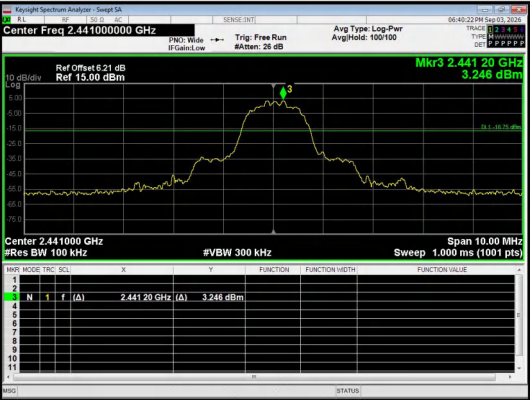
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



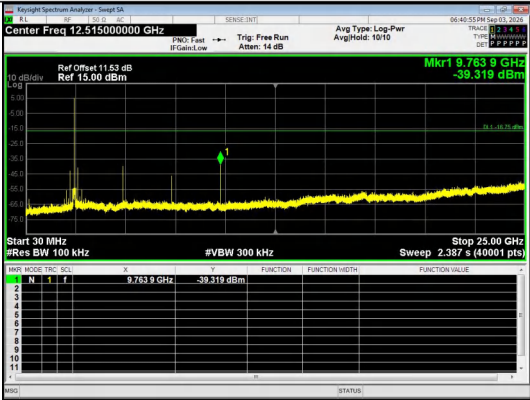
Out Of Band Emission
8DPSK_3-DH5_Channel 0



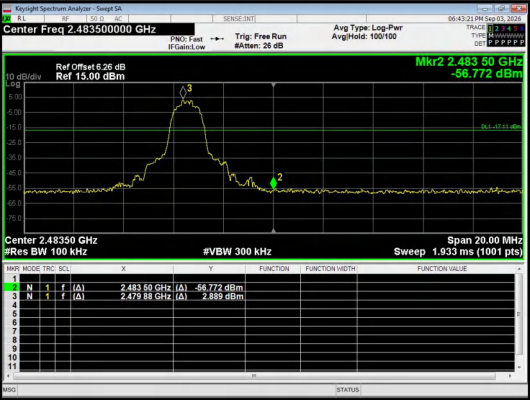
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



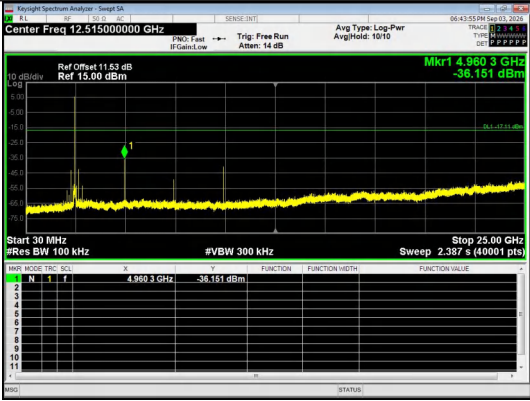
Out Of Band Emission
8DPSK_3-DH5_Channel 39



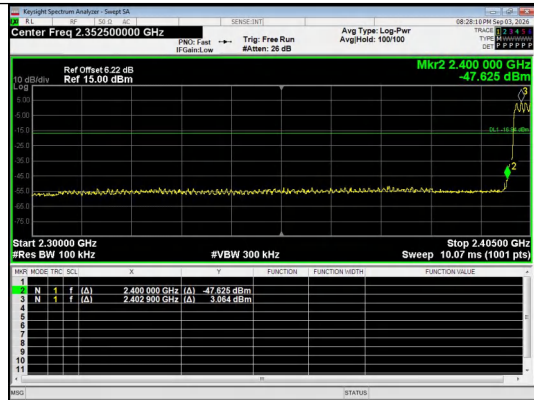
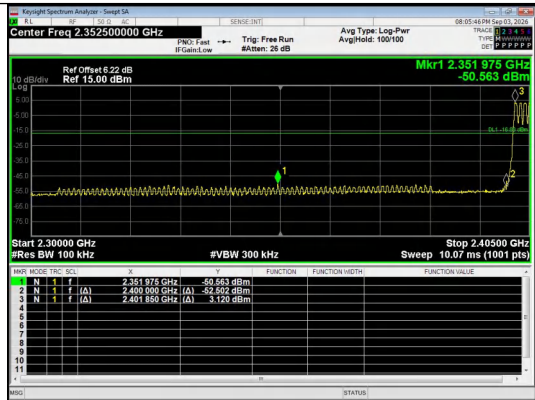
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



Out Of Band Emission

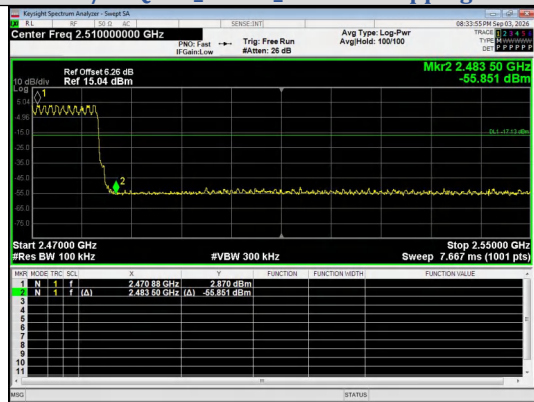
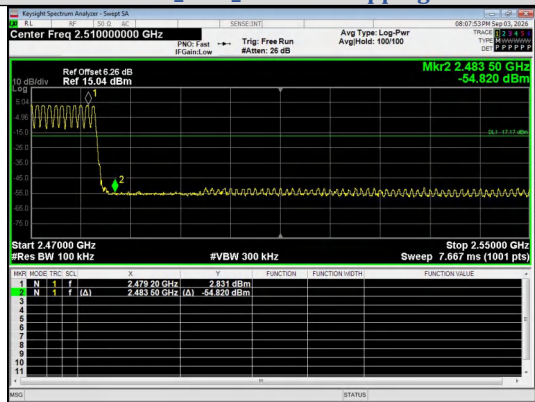


30.0 MHz - 25000.0 MHz



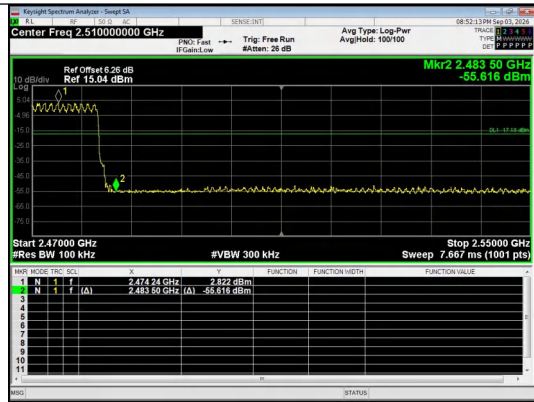
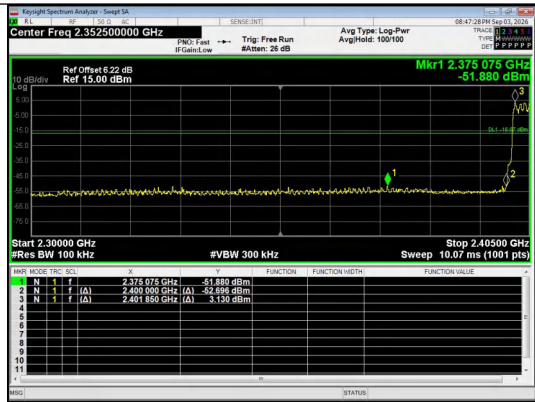
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping

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)	Verdict
GFSK	DH5	Hopping	2.8800	98	282.24	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.8960	127	367.79		PASS
8DPSK	3-DH5		2.8800	112	322.56		PASS
Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds							

Test Graphs



Number Of Hopping Channel

Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Verdict
GFSK	DH5	79	15	PASS
$\pi/4$ DQPSK	2-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS

Test Graphs

