

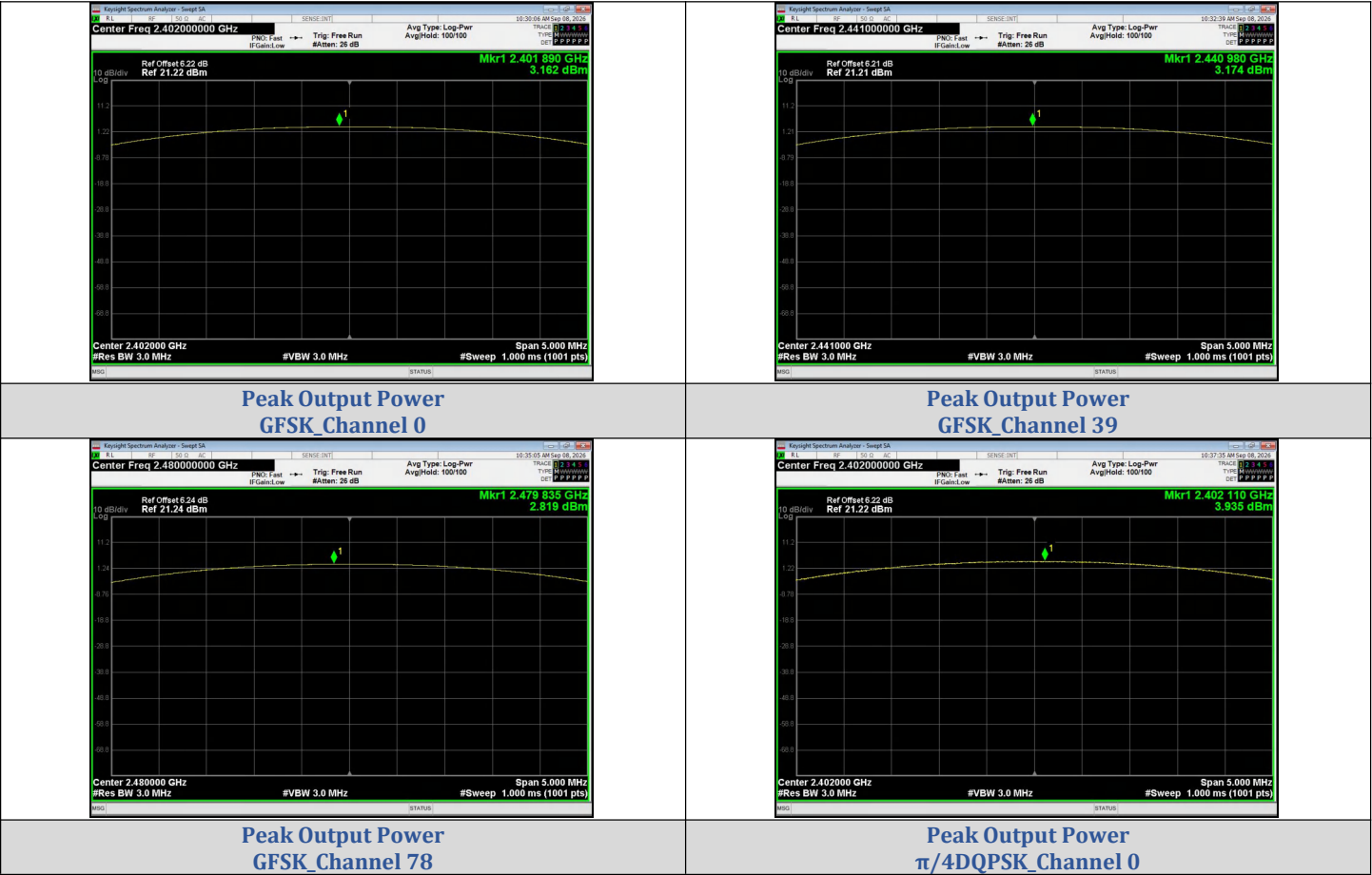
Appendix A:Test Results of Bluetooth BR & EDR

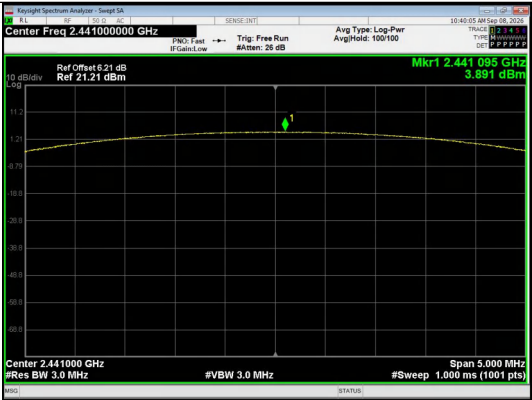
Conducted Output Power

Test Result

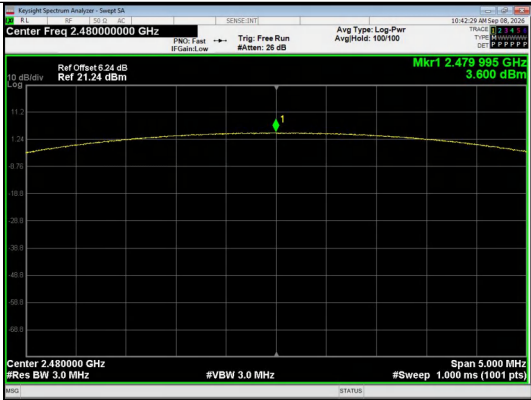
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Verdict
GFSK	DH5	0	3.162	2.07	None	30	PASS
		39	3.174	2.08	None		PASS
		78	2.819	1.91	None		PASS
π /4DQPSK	2-DH5	0	3.935	2.47	None		PASS
		39	3.891	2.45	None		PASS
		78	3.600	2.29	None		PASS
8DPSK	3-DH5	0	4.298	2.69	None		PASS
		39	4.190	2.62	None		PASS
		78	3.888	2.45	None		PASS

Test Graphs

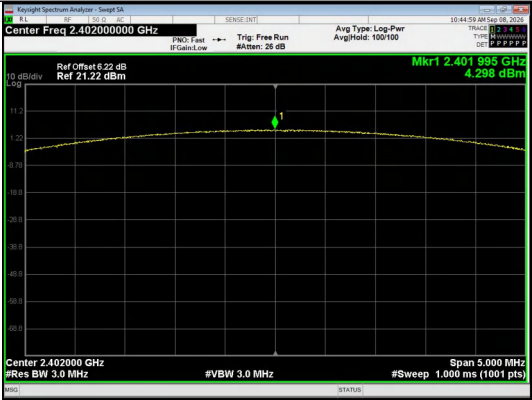




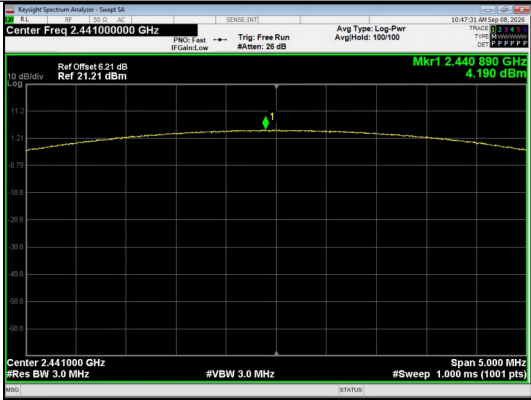
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



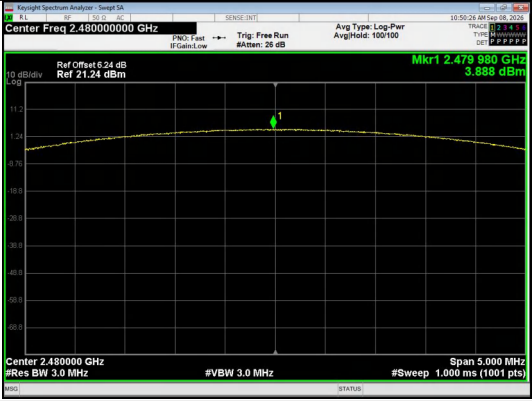
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



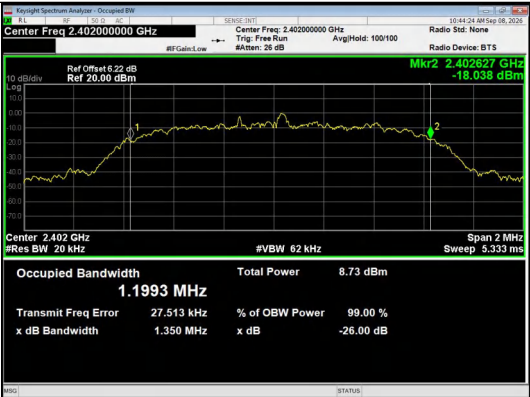
Peak Output Power
8DPSK_Channel 78

Test Result

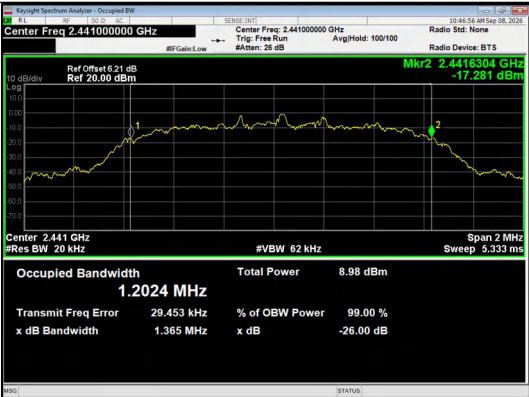
Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.89
	39	2441	0.90
	78	2480	0.88
$\pi/4$ DQPSK	0	2402	1.19
	39	2441	1.19
	78	2480	1.20
8DPSK	0	2402	1.20
	39	2441	1.20
	78	2480	1.21

Test Graphs

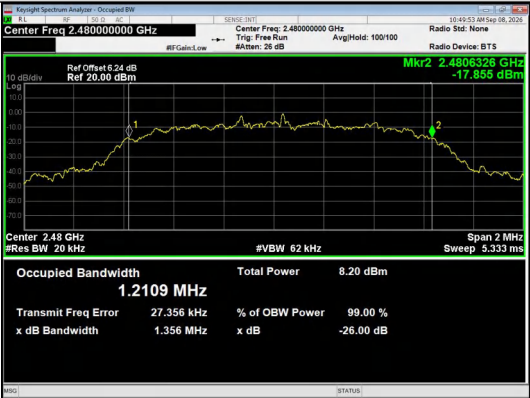




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39

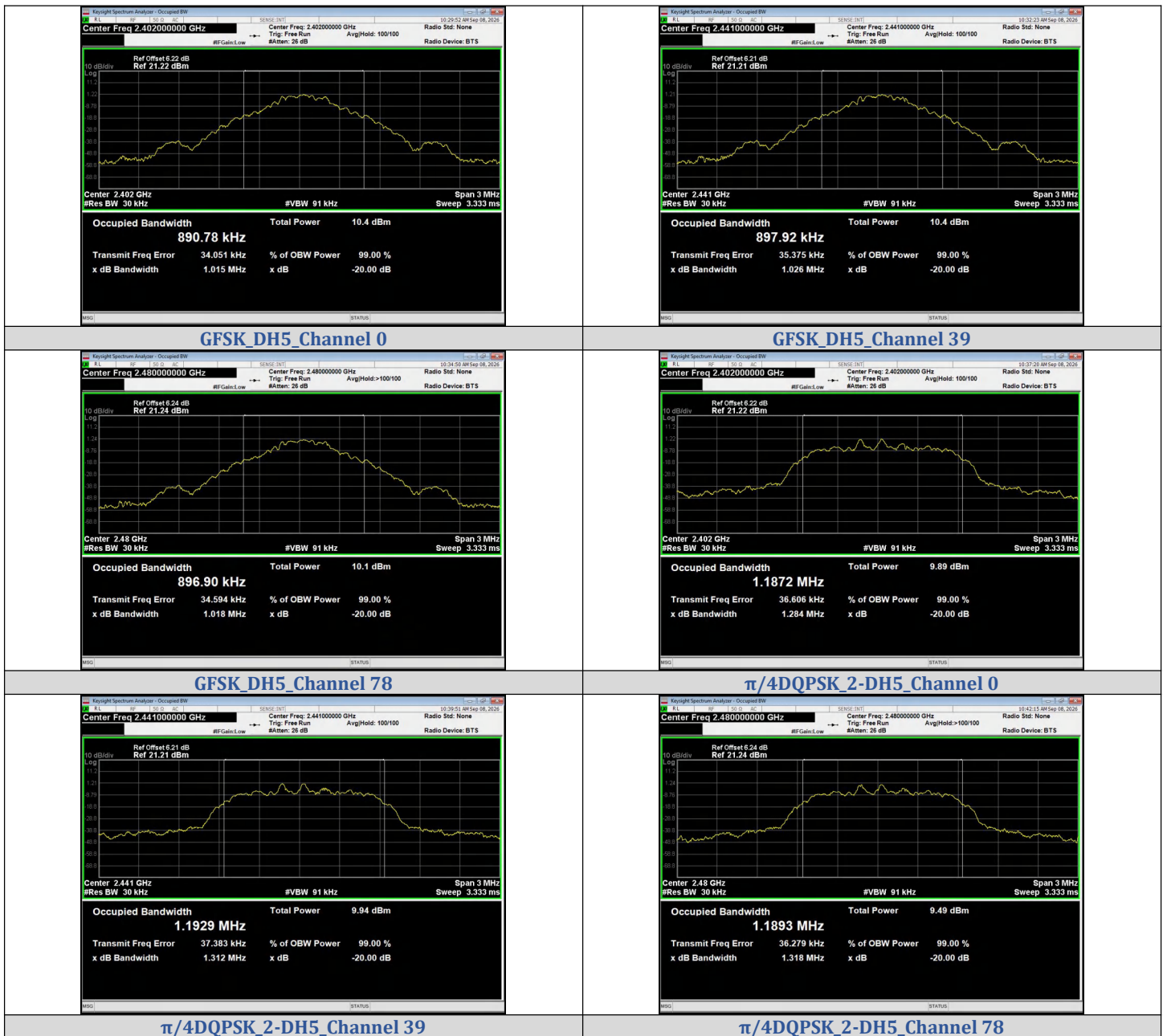


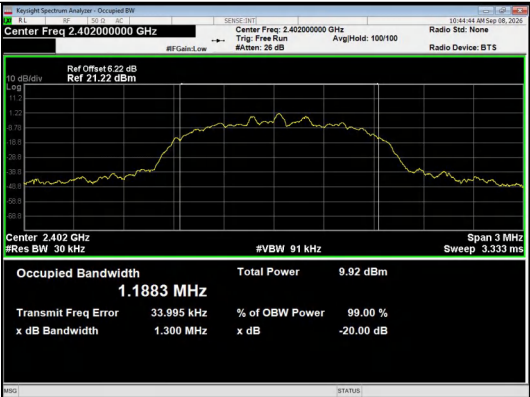
8DPSK_3-DH5_Channel 78

FCC ID:2BXCS-S07
20dB Bandwidth
Test Result

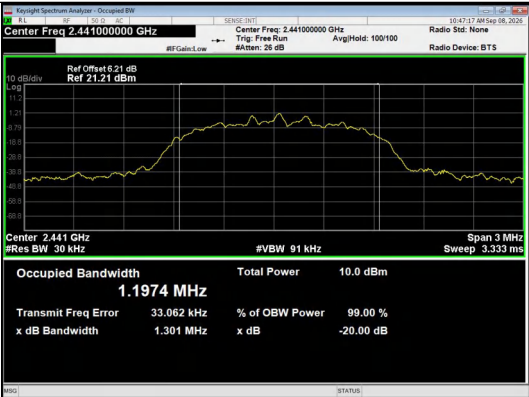
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.015
	39	2441 MHz	1.026
	78	2480 MHz	1.018
$\pi/4$ DQPSK	0	2402 MHz	1.284
	39	2441 MHz	1.312
	78	2480 MHz	1.318
8DPSK	0	2402 MHz	1.300
	39	2441 MHz	1.301
	78	2480 MHz	1.301

Test Graphs

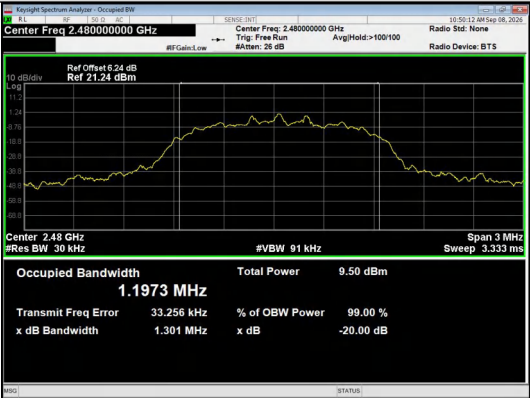




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

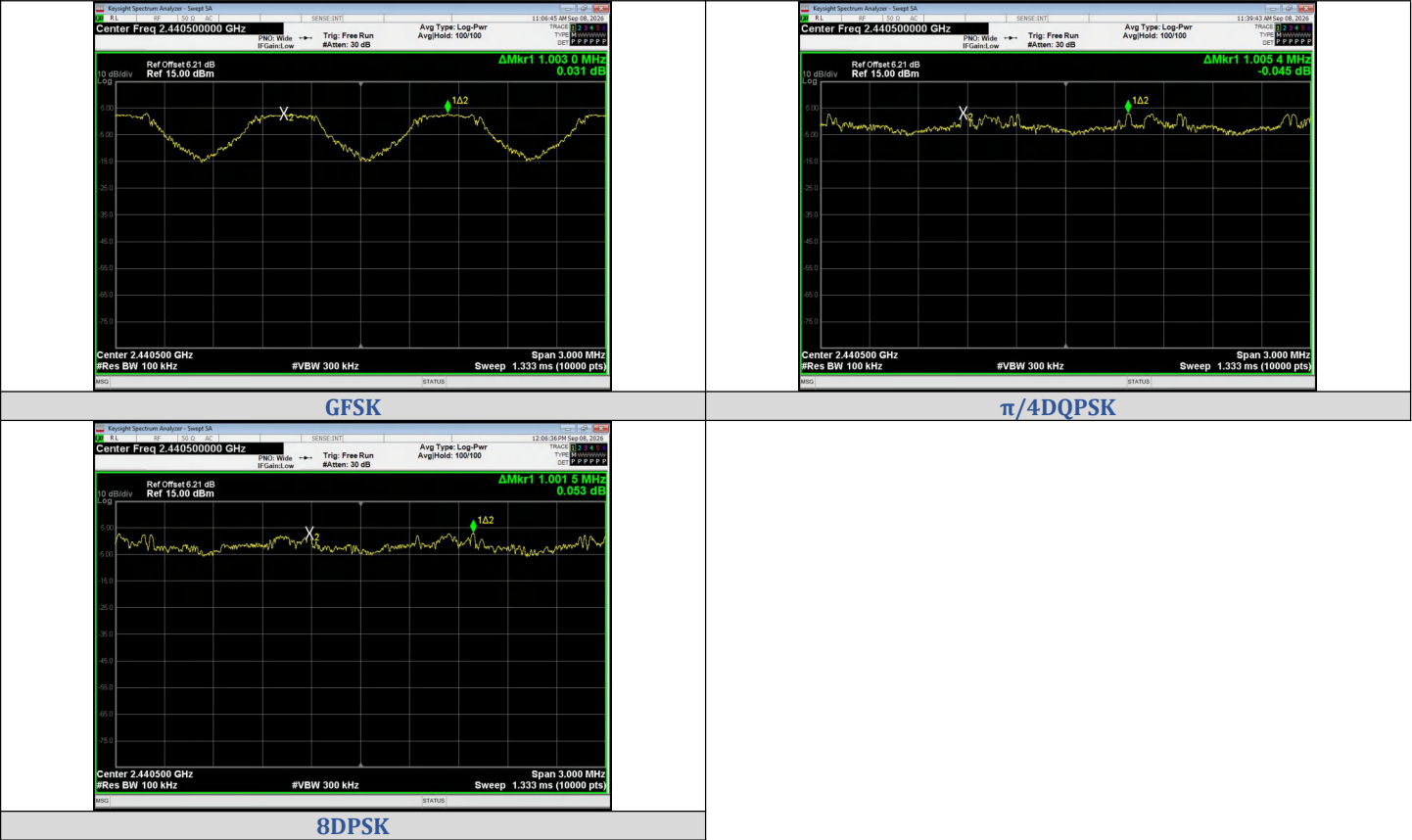
FCC ID:2BXCS-S07

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	2440.03	2441.033	1.0030	0.684	PASS
$\pi/4$ DQPSK	2-DH5	2439.8743	2440.8797	1.0054	0.879	PASS
8DPSK	3-DH5	2440.1857	2441.1872	1.0015	0.867	PASS

Test Graphs



FCC ID:2BXCS-S07

Conducted Spurious & Band Edge Emission

Test Result

Non-Hopping

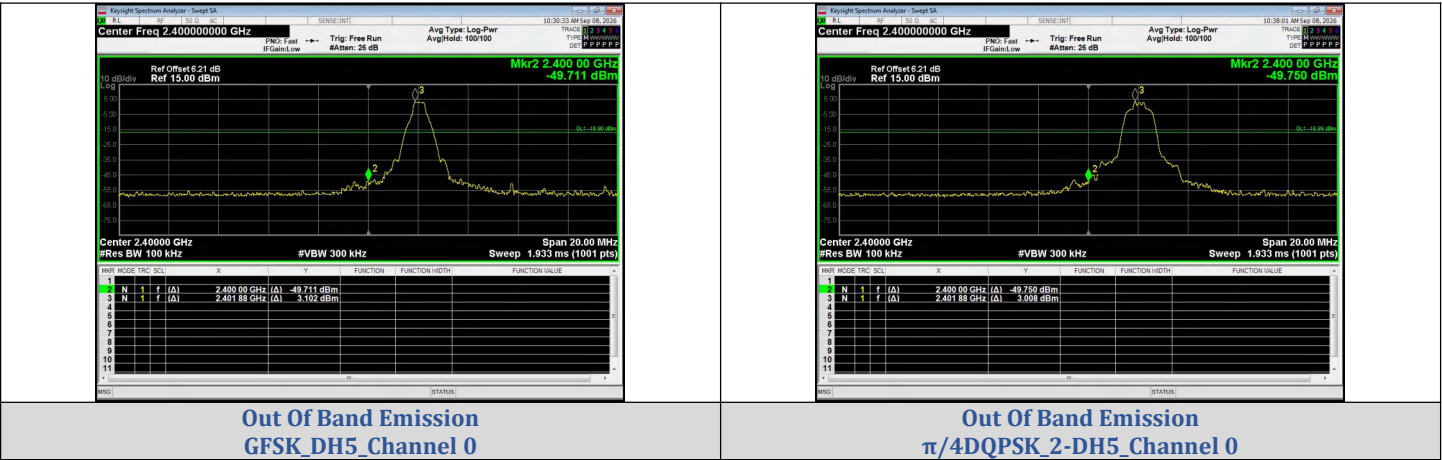
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Verdict
GFSK	DH5	0	2400.00	-49.711	-16.90	-32.811	PASS
			4804.26	-37.706	-16.90	-20.806	PASS
		39	4882.30	-37.726	-17.08	-20.646	PASS
		78	2483.50	-57.112	-17.33	-39.782	PASS
			4960.33	-39.157	-17.33	-21.827	PASS
π /4DQPSK	2-DH5	0	2400.00	-49.750	-16.99	-32.760	PASS
			9607.87	-39.168	-16.99	-22.178	PASS
		39	4882.30	-39.549	-16.94	-22.609	PASS
		78	2483.50	-57.458	-17.32	-40.138	PASS
			4960.33	-40.053	-17.32	-22.733	PASS
8DPSK	3-DH5	0	2400.00	-47.003	-17.01	-29.993	PASS
			9607.87	-38.749	-17.01	-21.739	PASS
		39	2633.12	-40.023	-17.00	-23.023	PASS
		78	2483.50	-57.111	-17.34	-39.771	PASS
			4960.33	-41.618	-17.34	-24.278	PASS

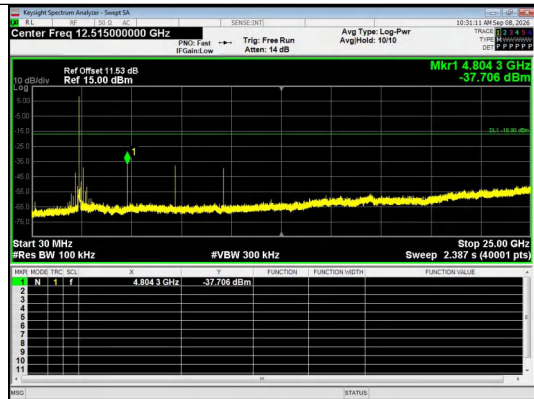
Note: input compensation coefficient (dB)= Cable Loss (dB)

Hopping

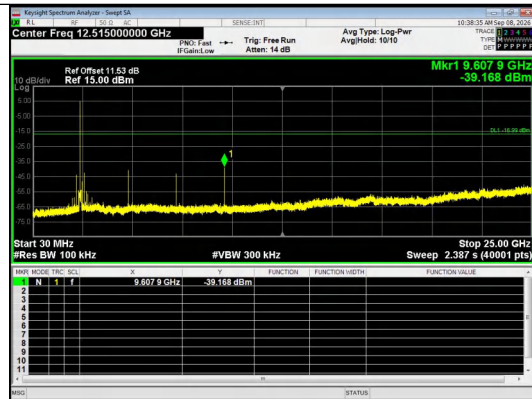
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Verdict
GFSK	DH5	Hopping	2371.09	-51.000	-17.18	-33.820	PASS
			2400.00	-51.039	-17.18	-33.859	PASS
			2483.50	-55.454	-17.25	-38.204	PASS
π /4DQPSK	2-DH5		2400.00	-47.682	-17.05	-30.632	PASS
			2483.50	-56.048	-17.26	-38.788	PASS
8DPSK	3-DH5		2400.00	-47.189	-17.02	-30.169	PASS
			2483.50	-55.182	-17.29	-37.892	PASS
Note: input compensation coefficient (dB)= Cable Loss (dB)							

Test Graphs

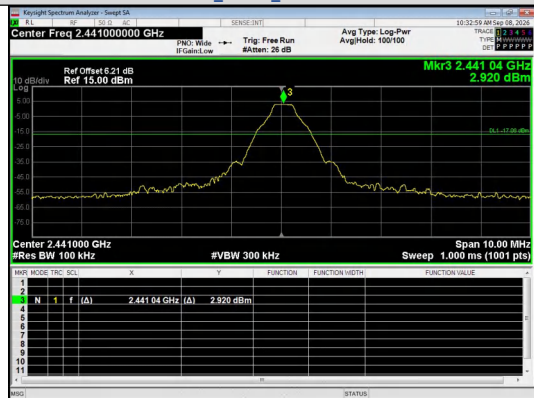




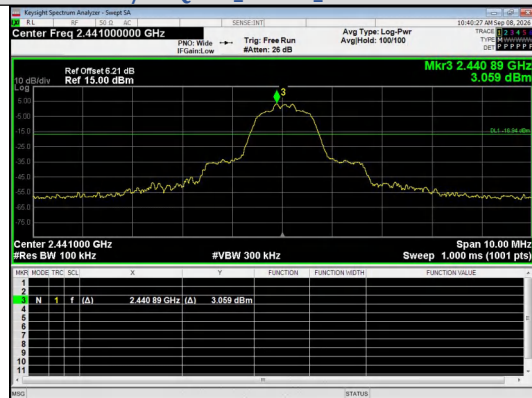
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



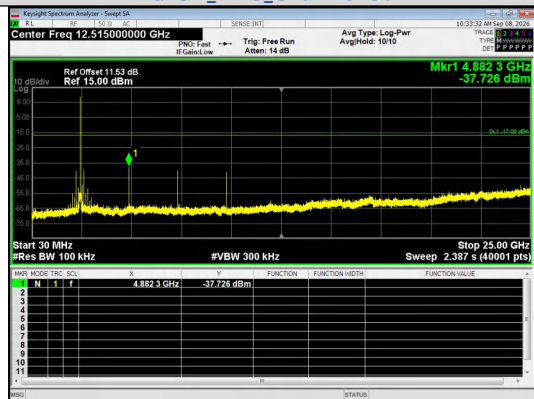
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



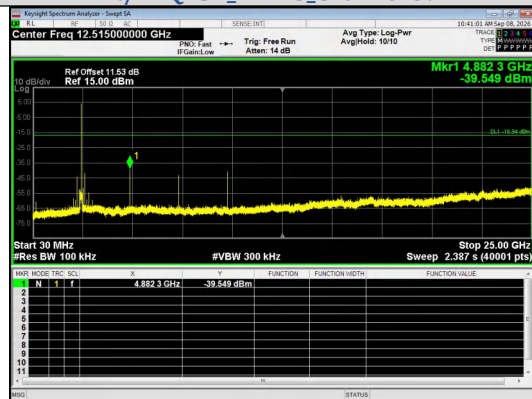
Out Of Band Emission
GFSK_DH5_Channel 39



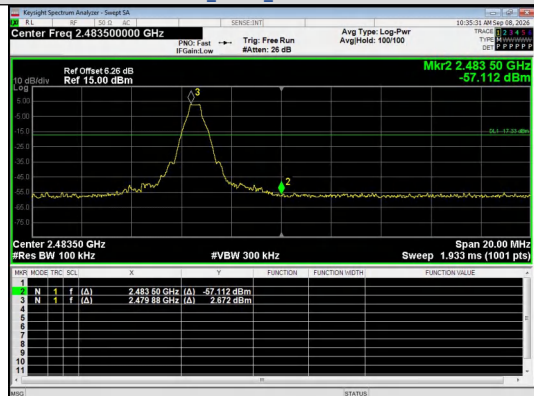
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



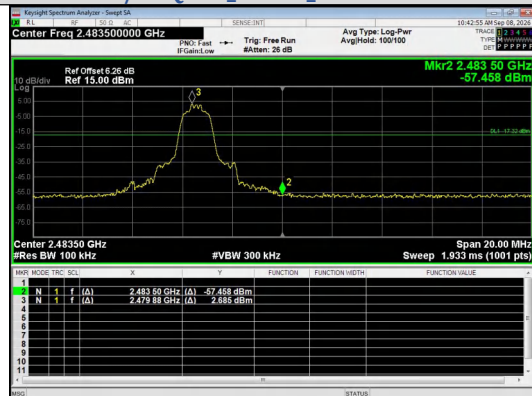
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



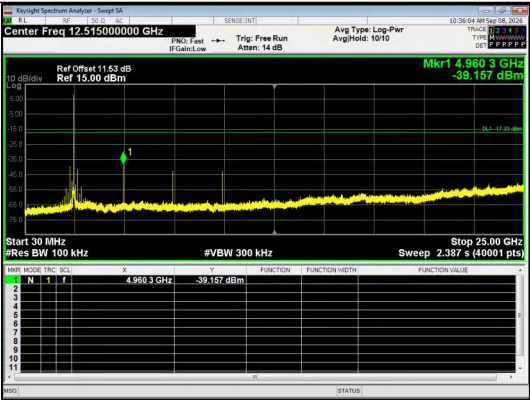
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



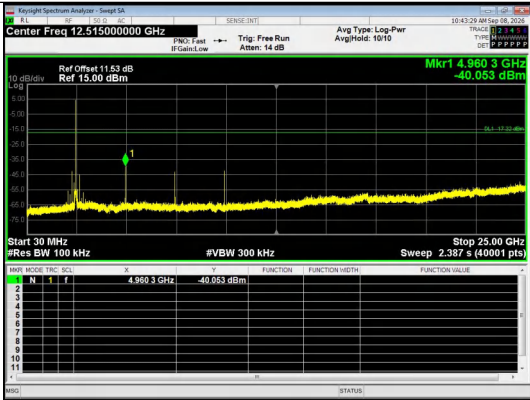
Out Of Band Emission
GFSK_DH5_Channel 78



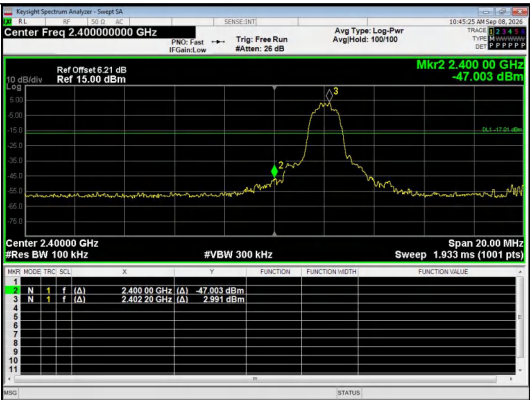
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



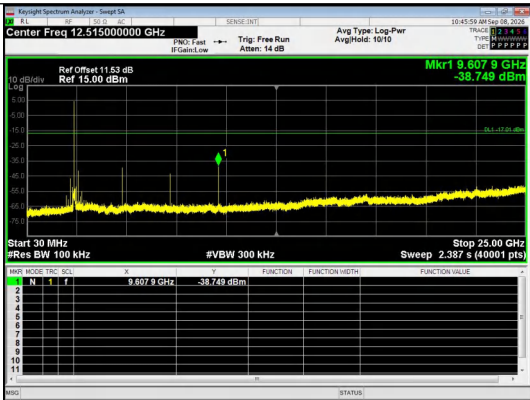
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



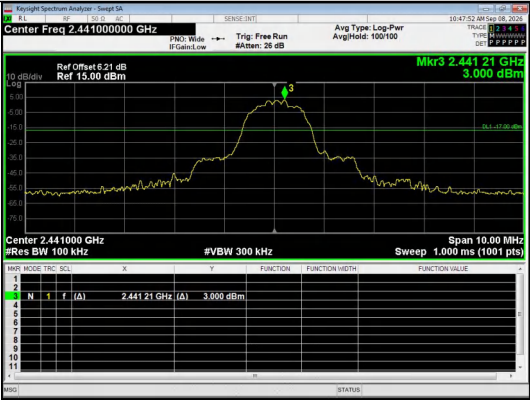
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



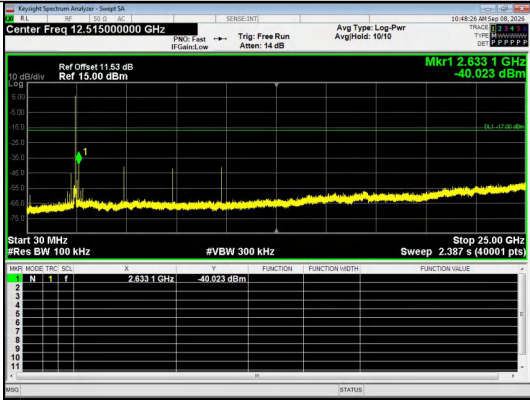
Out Of Band Emission
8DPSK_3-DH5_Channel 0



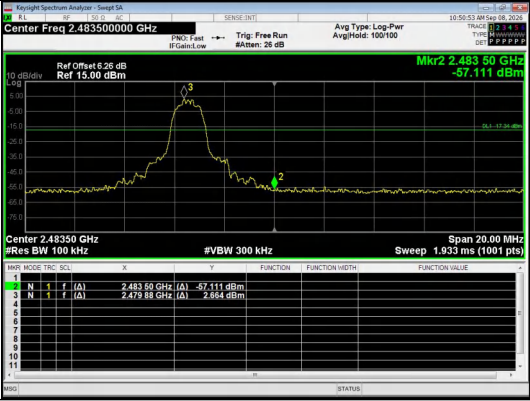
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



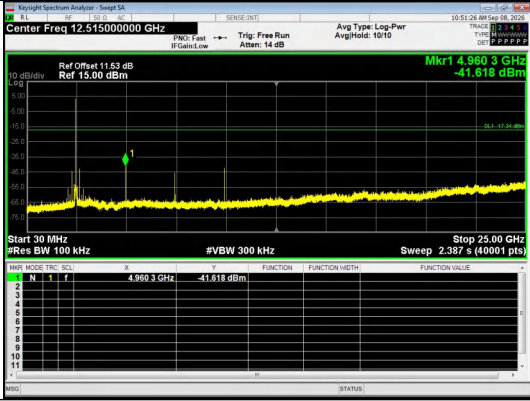
Out Of Band Emission
8DPSK_3-DH5_Channel 39



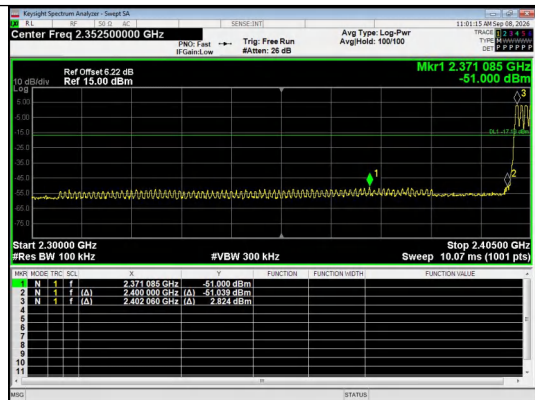
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



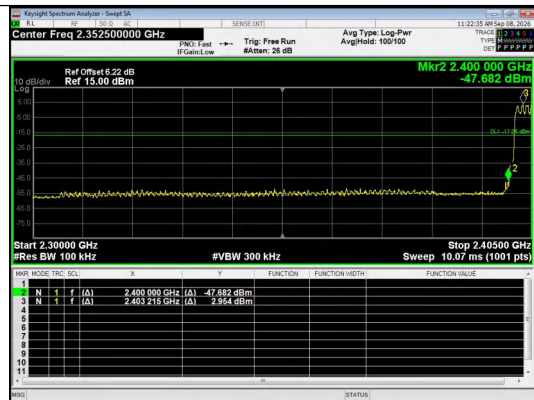
Out Of Band Emission



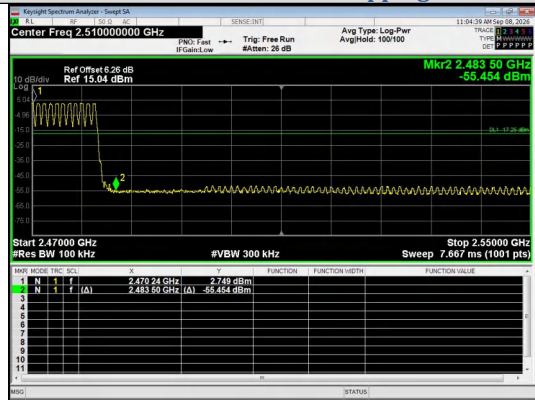
30.0 MHz - 25000.0 MHz



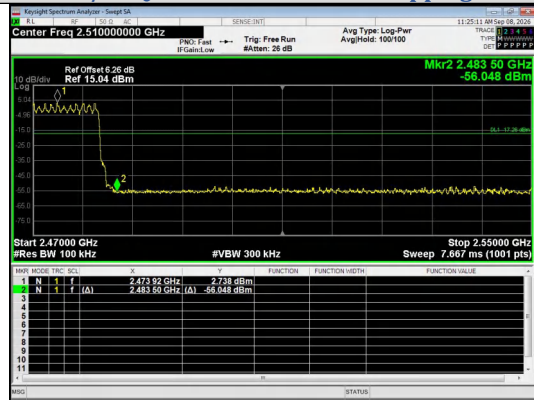
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



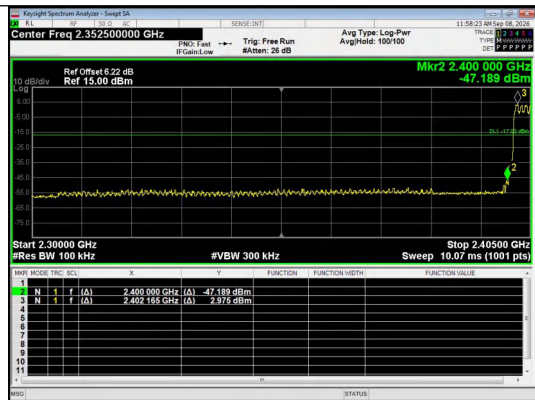
Out Of Band Emission(Right)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



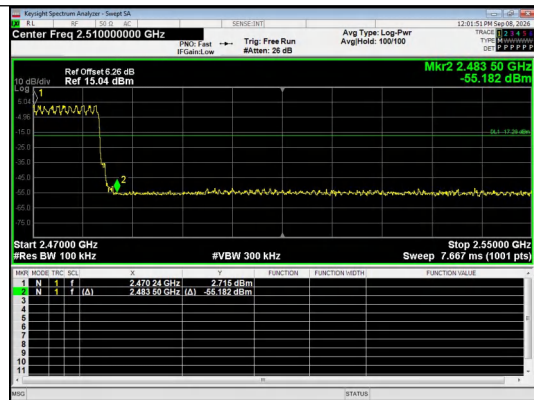
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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



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



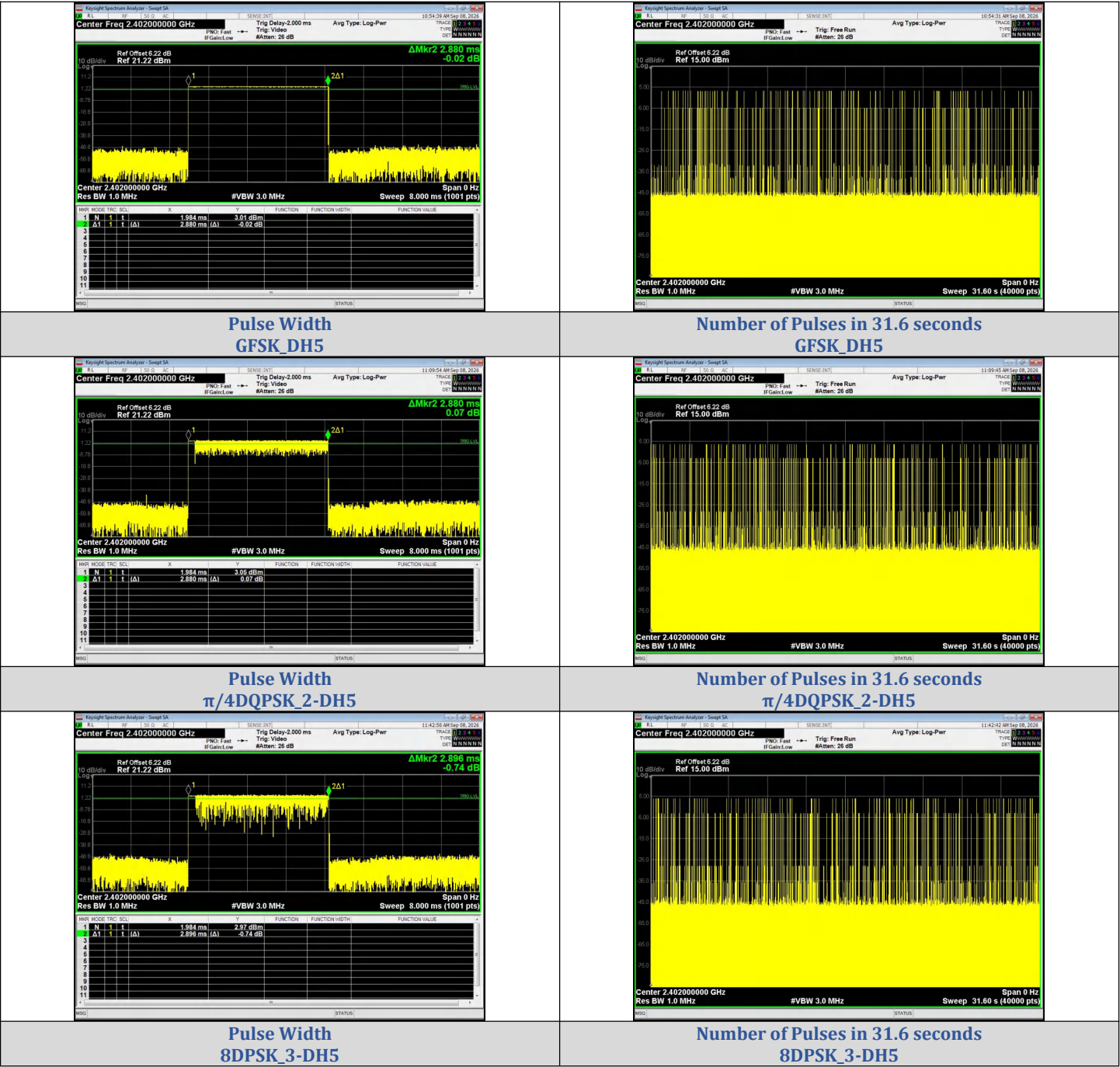
Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping

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	96	276.48	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.8800	95	273.6		PASS
8DPSK	3-DH5		2.8960	102	295.39		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

