

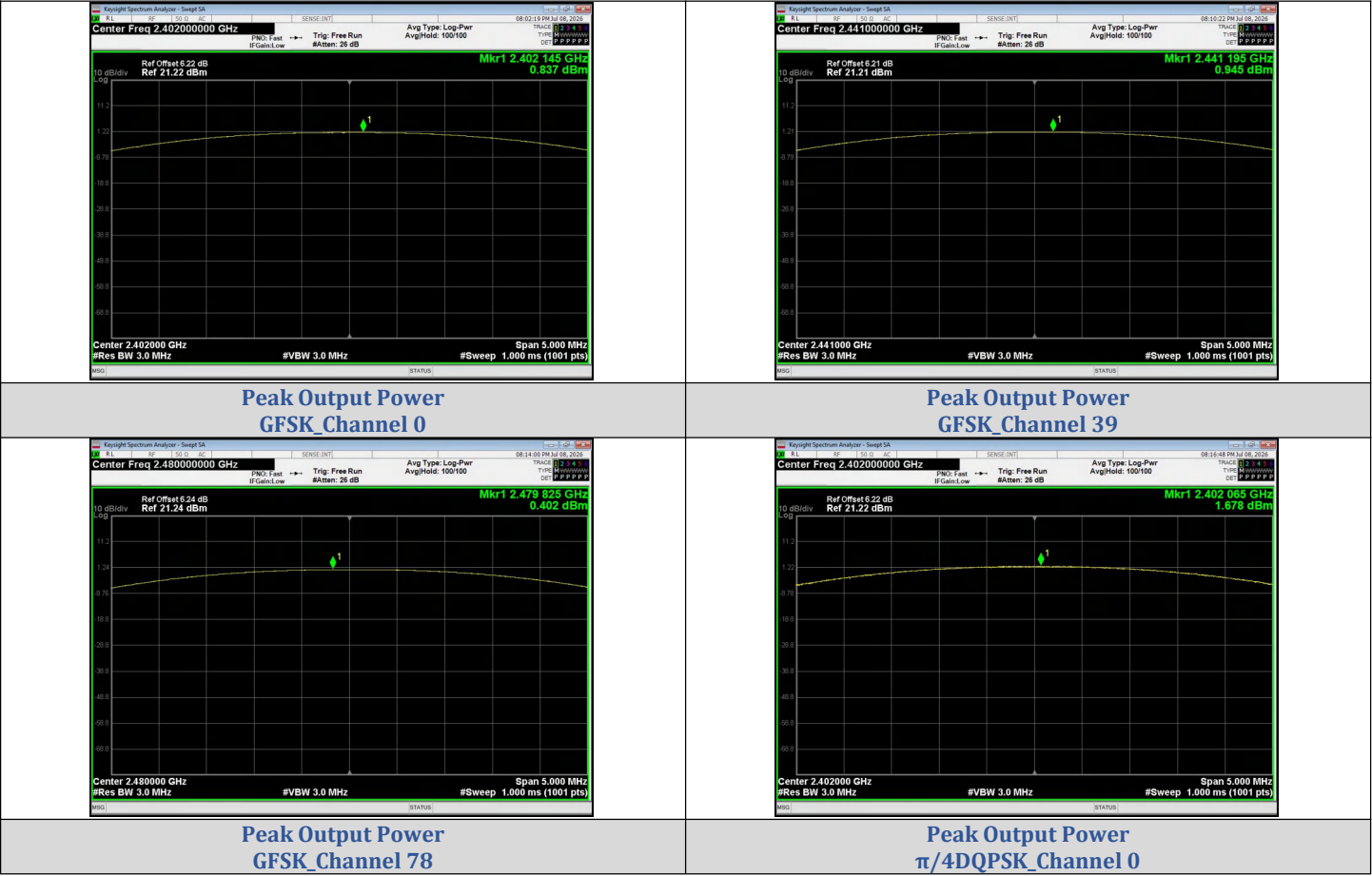
Test Results of Bluetooth BR & EDR

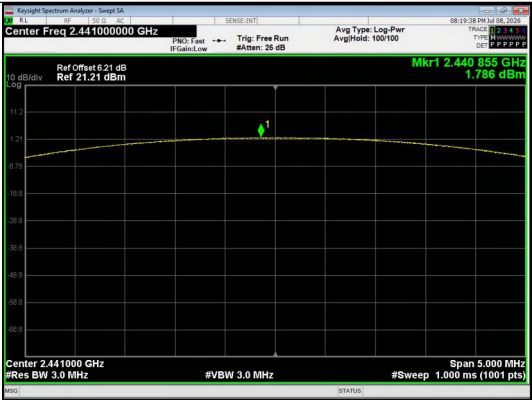
Conducted Output Power

Test Result

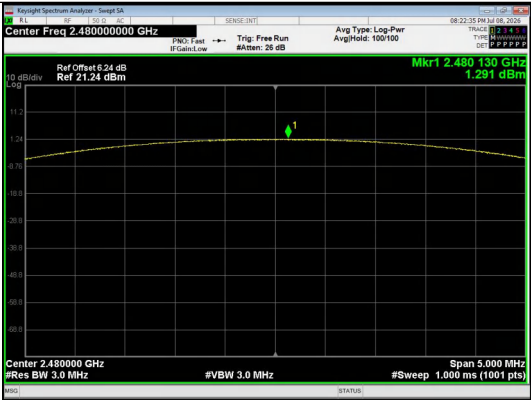
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Verdict
GFSK	DH5	0	0.837	1.21	None	30	PASS
		39	0.945	1.24	None		PASS
		78	0.402	1.10	None		PASS
$\pi/4$ DQPSK	2-DH5	0	1.678	1.47	None		PASS
		39	1.786	1.51	None		PASS
		78	1.291	1.35	None		PASS
8DPSK	3-DH5	0	2.089	1.62	None		PASS
		39	2.157	1.64	None		PASS
		78	1.592	1.44	None		PASS

Test Graphs

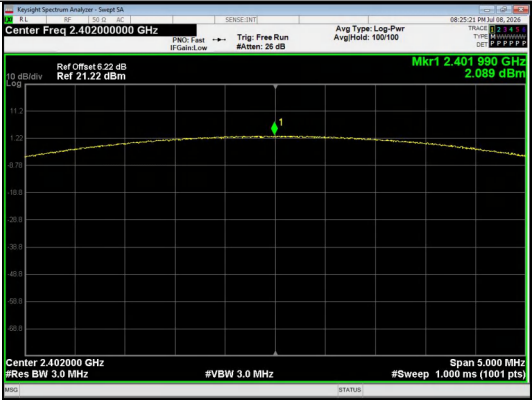




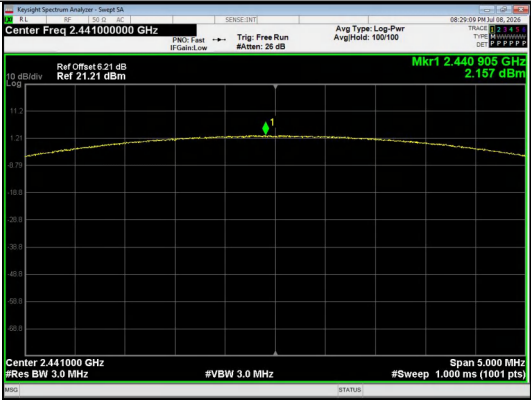
Peak Output Power
 π /4QPSK_Channel 39



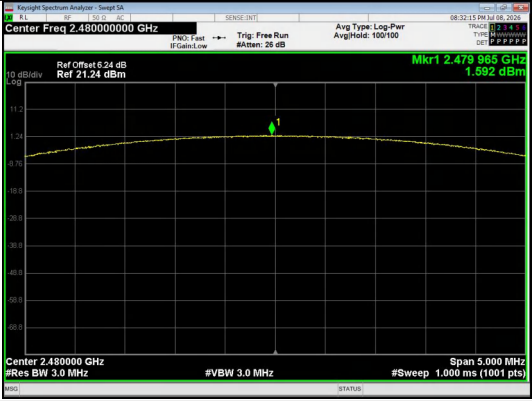
Peak Output Power
 π /4QPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



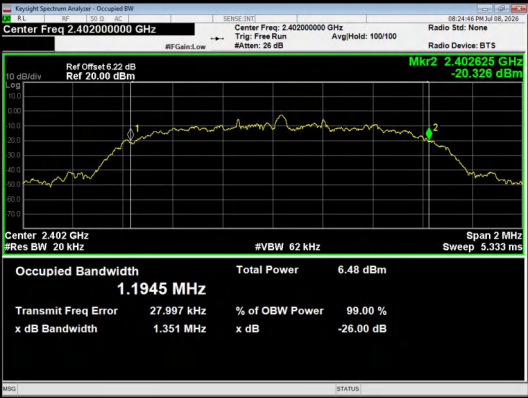
Peak Output Power
8DPSK_Channel 78

Test Result

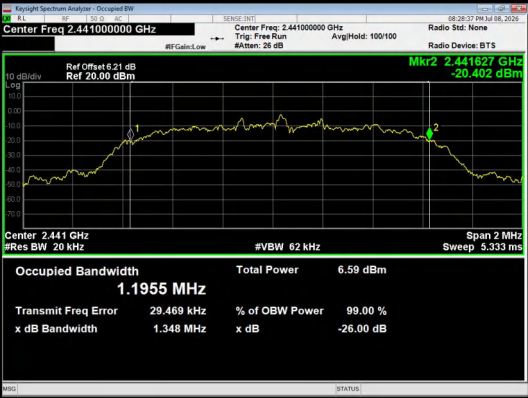
Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.88
	39	2441	0.90
	78	2480	0.87
$\pi/4$ DQPSK	0	2402	1.19
	39	2441	1.19
	78	2480	1.20
8DPSK	0	2402	1.19
	39	2441	1.20
	78	2480	1.20

Test Graphs

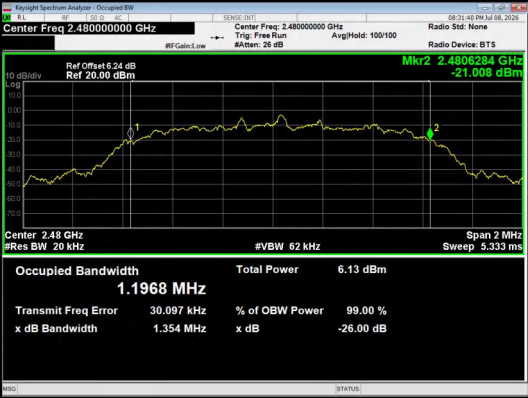




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

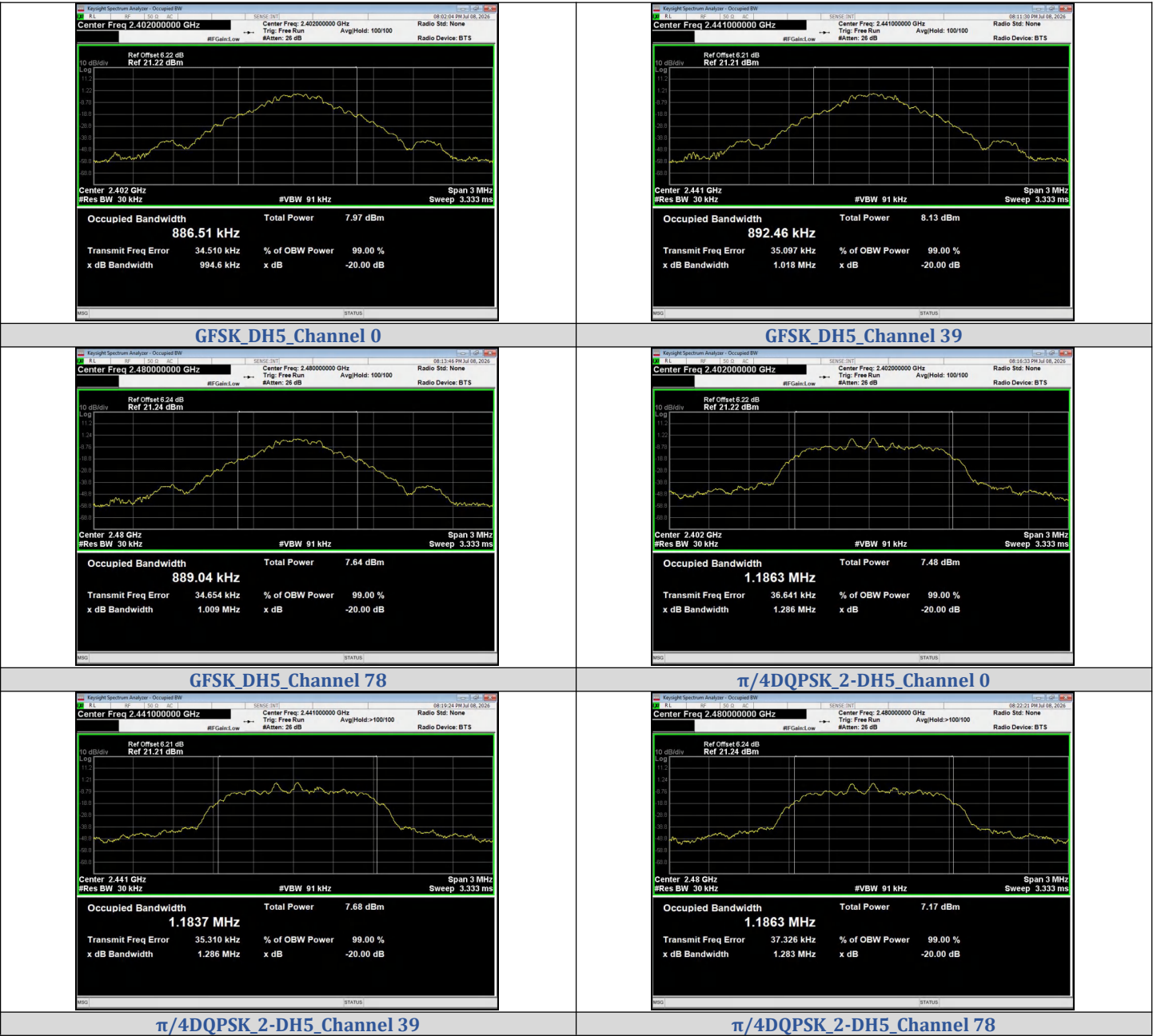
FCC ID:2BW3Q-H06

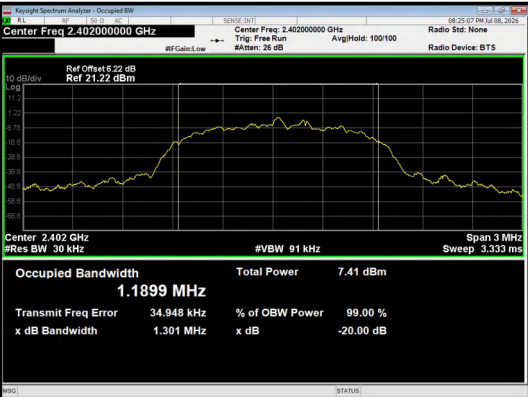
20dB Bandwidth

Test Result

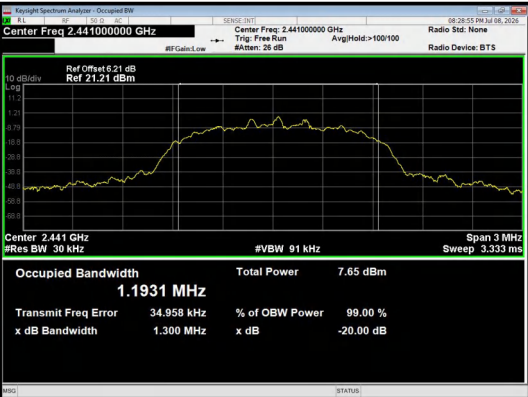
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9946
	39	2441 MHz	1.018
	78	2480 MHz	1.009
$\pi/4$ DQPSK	0	2402 MHz	1.286
	39	2441 MHz	1.286
	78	2480 MHz	1.283
8DPSK	0	2402 MHz	1.301
	39	2441 MHz	1.300
	78	2480 MHz	1.300

Test Graphs

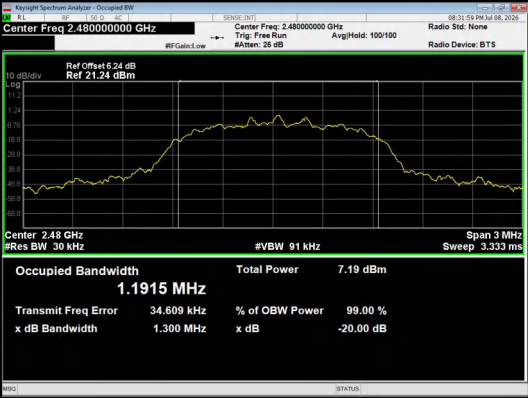




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

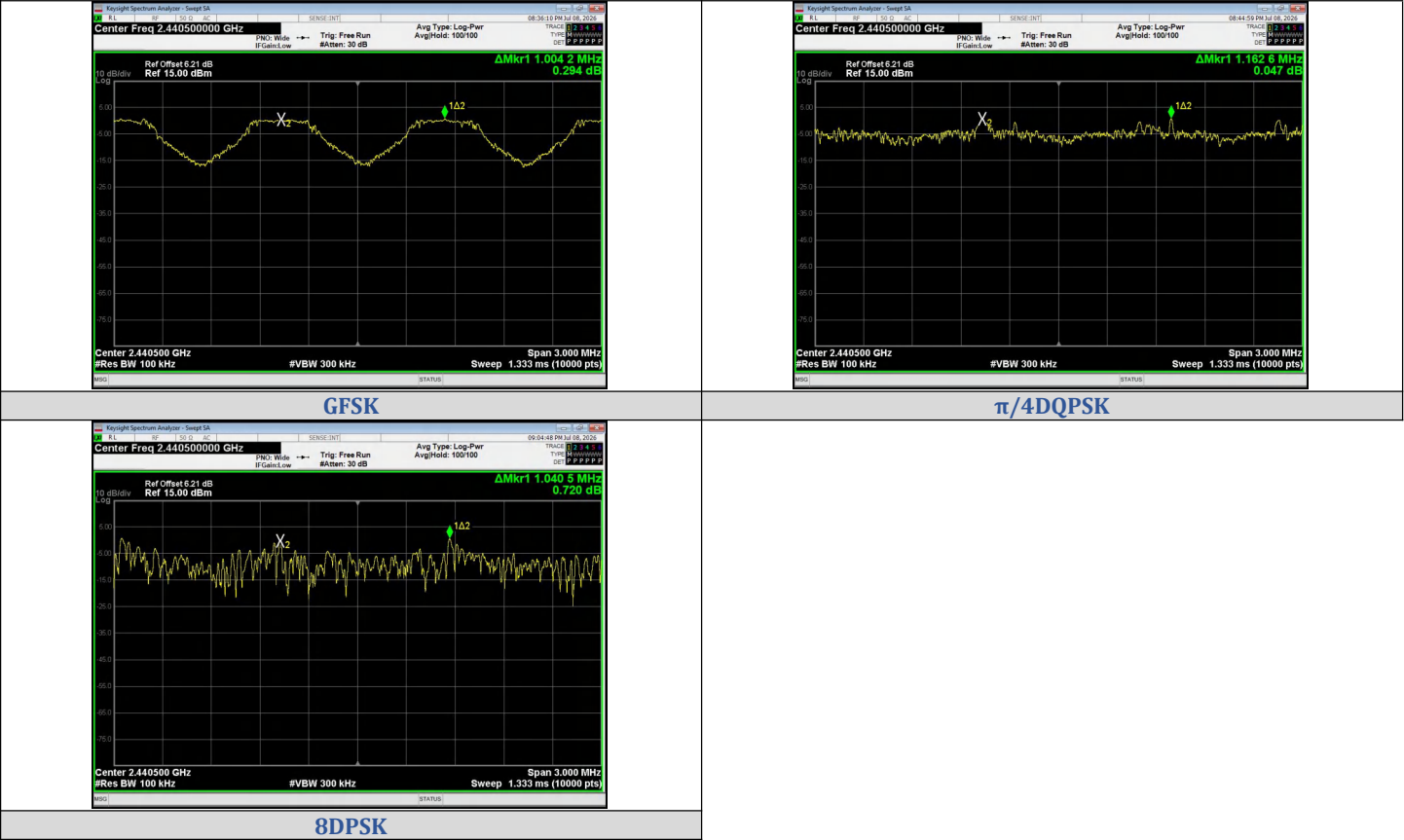
FCC ID:2BW3Q-H06

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	2440.0312	2441.0354	1.0042	0.679	PASS
$\pi/4$ DQPSK	2-DH5	2440.0285	2441.1911	1.1626	0.857	PASS
8DPSK	3-DH5	2440.024	2441.0645	1.0405	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	-51.829	-19.26	-32.569	PASS
			9607.87	-39.086	-19.26	-19.826	PASS
		39	4882.30	-40.592	-19.21	-21.382	PASS
			2483.50	-55.671	-19.75	-35.921	PASS
			4960.33	-41.204	-19.75	-21.454	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-50.719	-19.32	-31.399	PASS
			9607.87	-39.172	-19.32	-19.852	PASS
		39	9763.93	-40.704	-19.20	-21.504	PASS
			2483.50	-57.418	-19.70	-37.718	PASS
			9919.99	-42.448	-19.70	-22.748	PASS
8DPSK	3-DH5	0	2400.00	-49.798	-19.33	-30.468	PASS
			9607.87	-39.067	-19.33	-19.737	PASS
		39	9763.93	-40.885	-19.18	-21.705	PASS
			2483.50	-57.842	-19.75	-38.092	PASS
			9919.99	-42.516	-19.75	-22.766	PASS

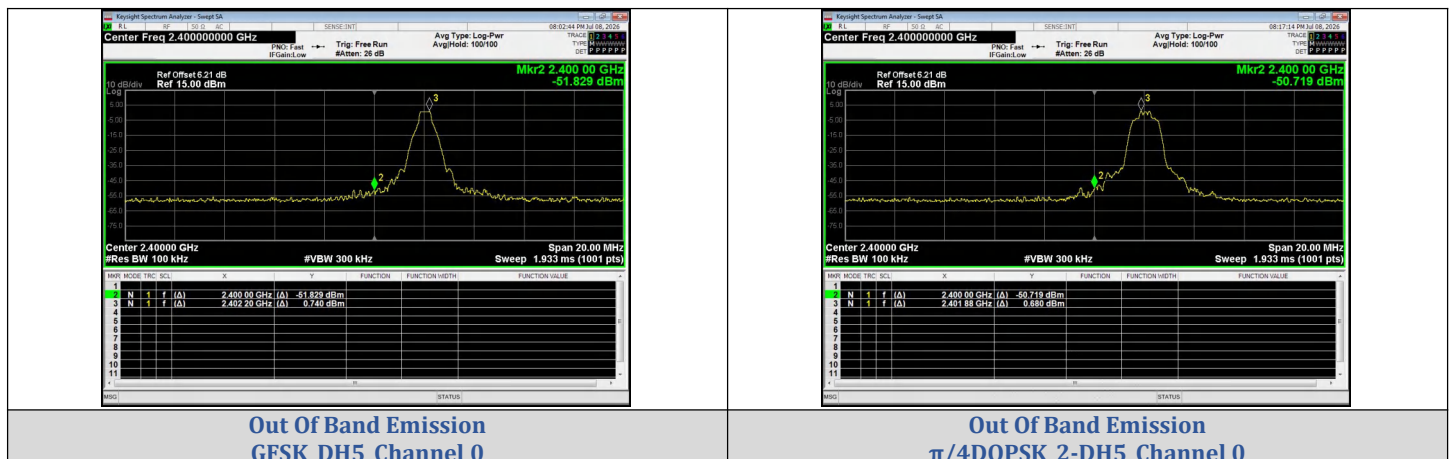
Note: input compensation coefficient (dB)= Cable Loss (dB)

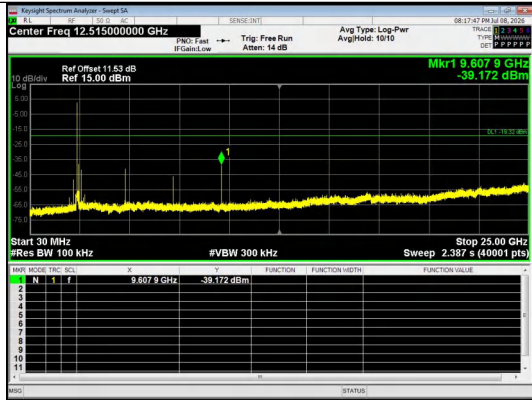
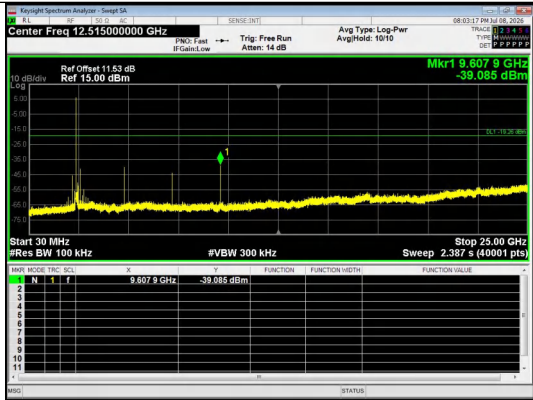
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Verdict
GFSK	DH5	Hopping	2350.09	-53.038	-19.25	-33.788	PASS
			2400.00	-54.995	-19.25	-35.745	PASS
			2483.50	-56.936	-19.68	-37.256	PASS
$\pi/4$ DQPSK	2-DH5		2368.04	-53.936	-19.25	-34.686	PASS
			2400.00	-56.202	-19.25	-36.952	PASS
			2483.50	-55.609	-19.54	-36.069	PASS
8DPSK	3-DH5		2400.00	-50.992	-19.18	-31.812	PASS
			2483.50	-55.188	-19.55	-35.638	PASS
Note: input compensation coefficient (dB)= Cable Loss (dB)							

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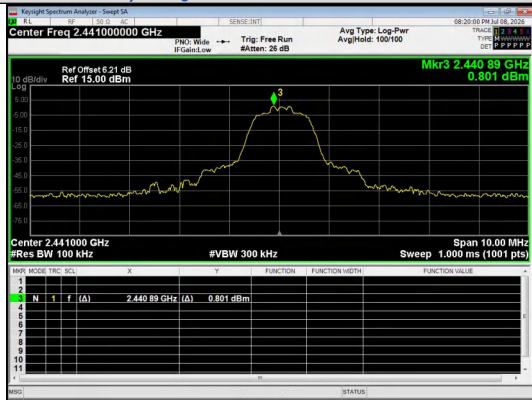
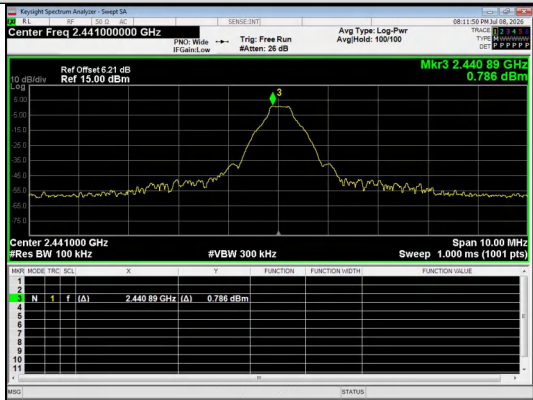
Test Graphs





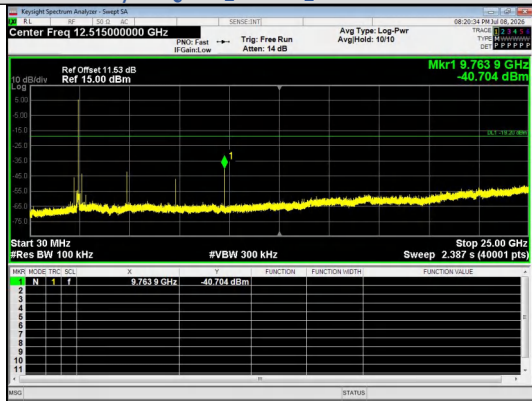
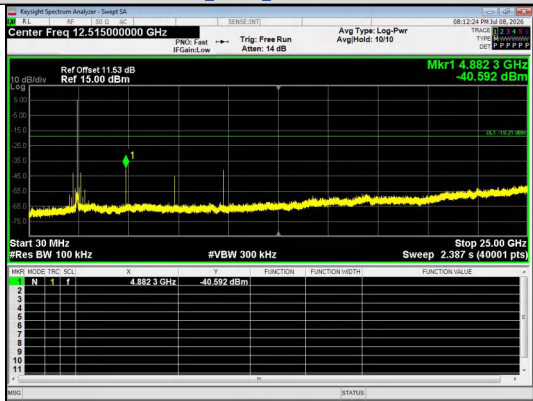
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0

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



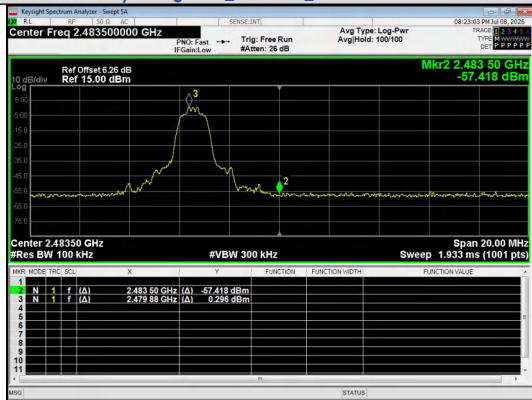
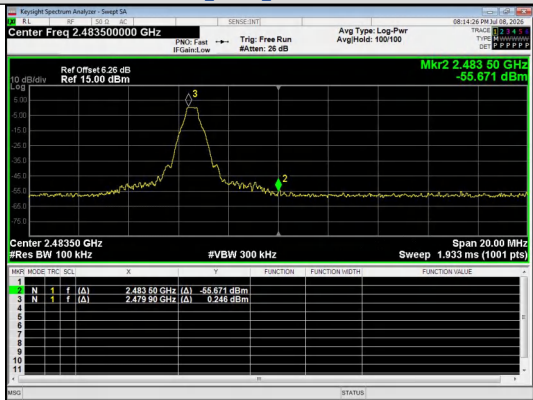
Out Of Band Emission
GFSK_DH5_Channel 39

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



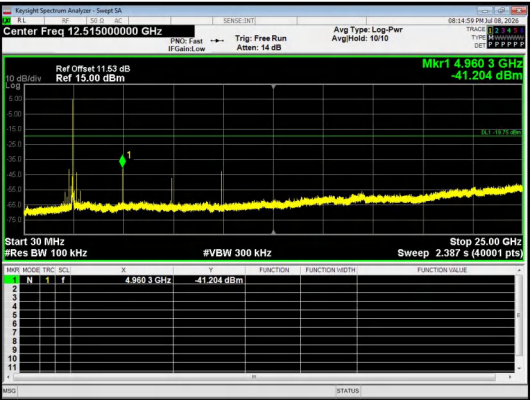
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39

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

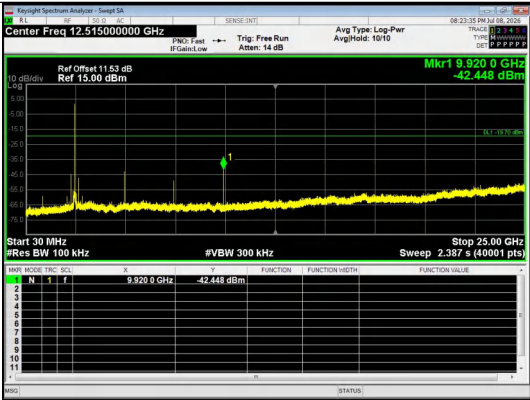


Out Of Band Emission
GFSK_DH5_Channel 78

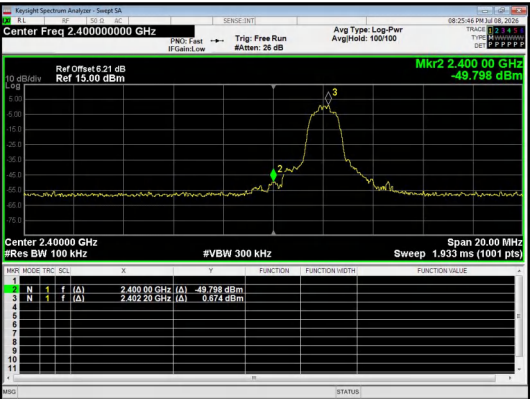
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



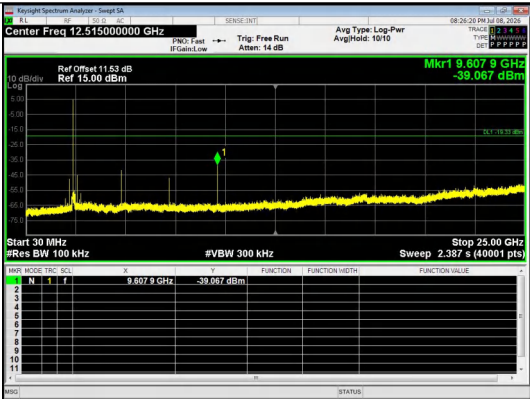
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



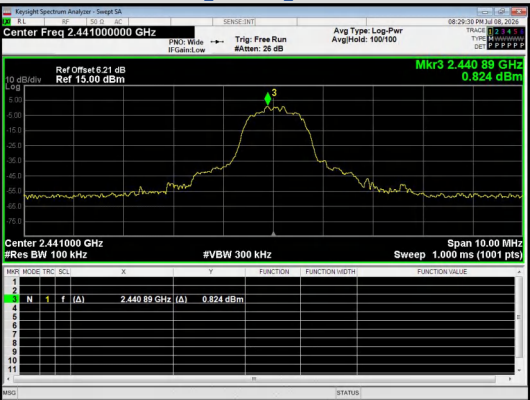
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



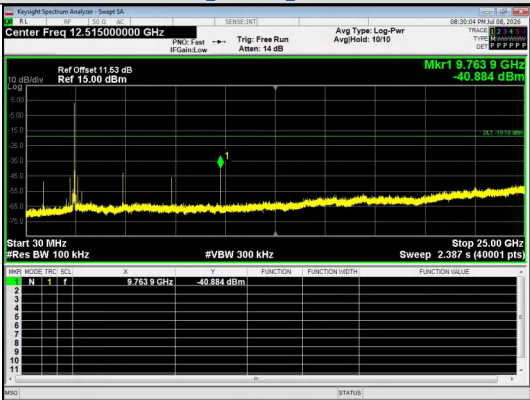
Out Of Band Emission
8DPSK_3-DH5_Channel 0



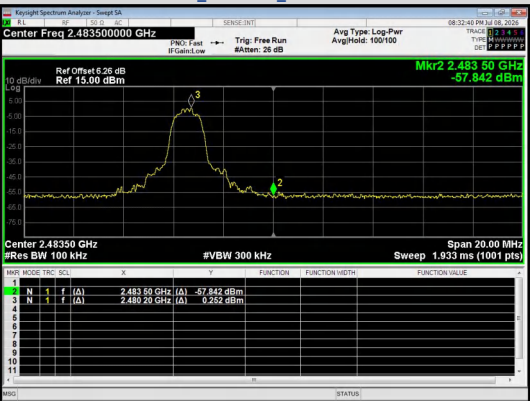
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



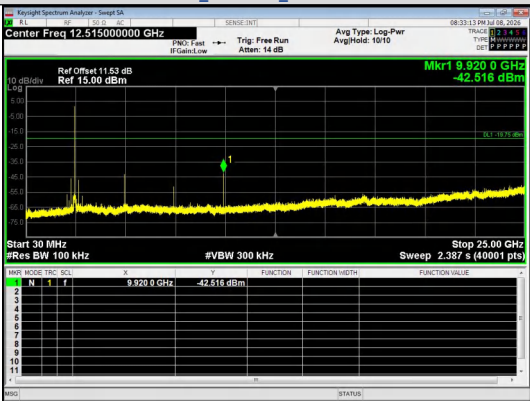
Out Of Band Emission
8DPSK_3-DH5_Channel 39



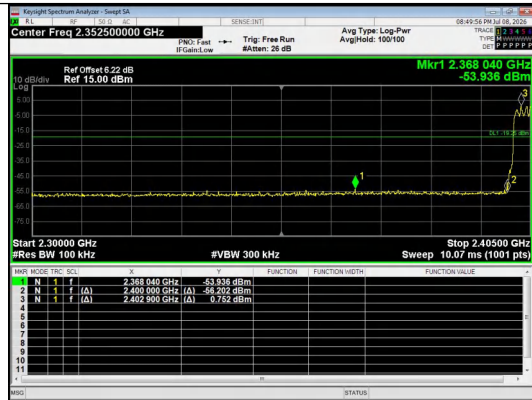
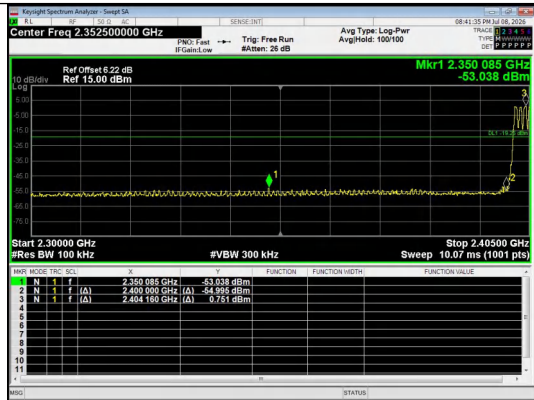
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



Out Of Band Emission

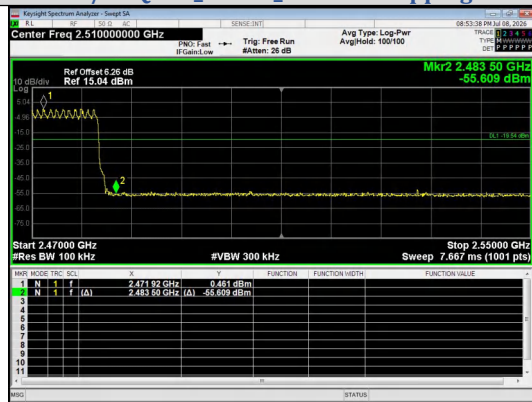
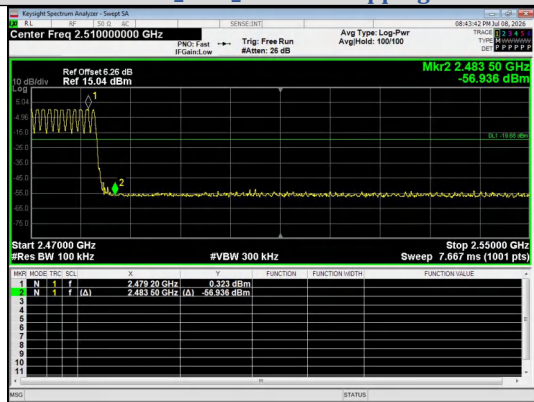


30.0 MHz - 25000.0 MHz



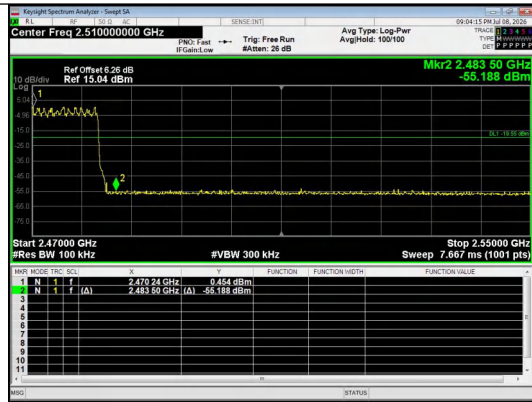
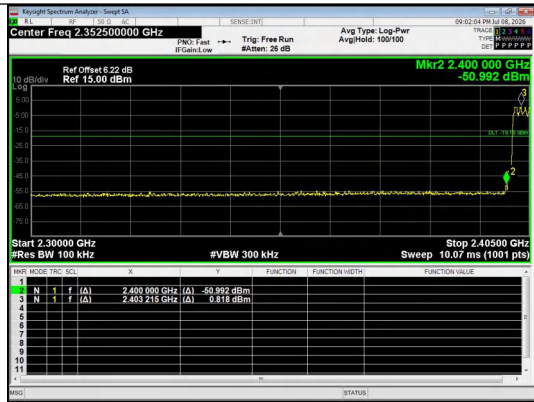
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping

Out Of Band Emission(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

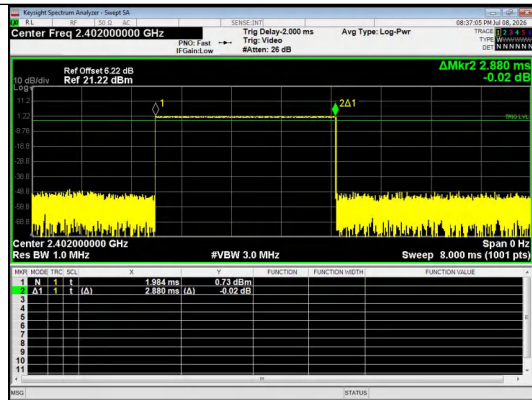
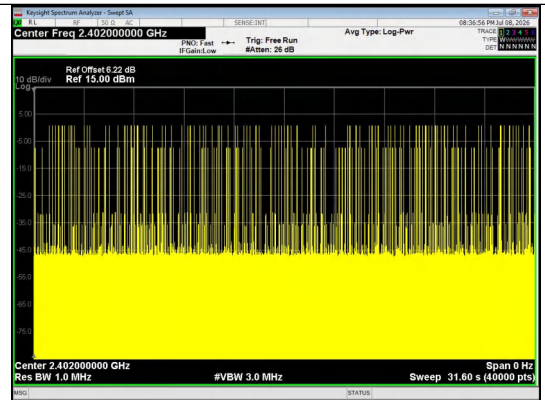
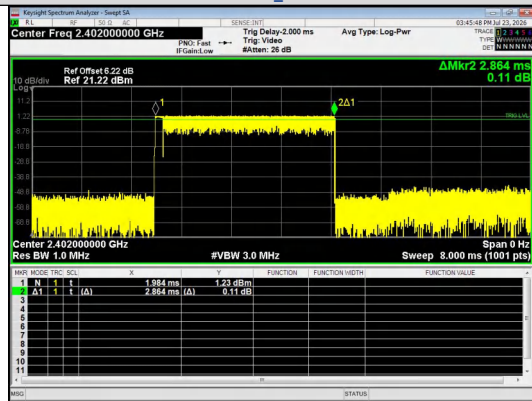
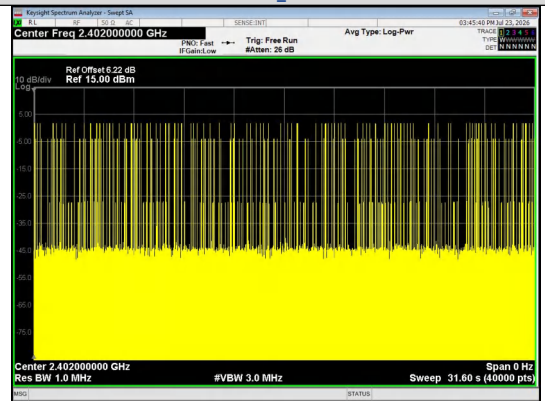
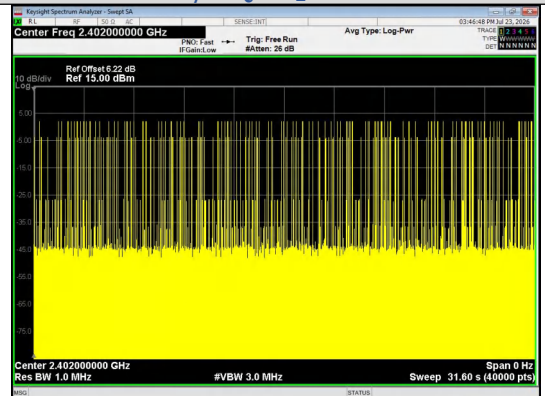
Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping

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	112	322.56	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.8640	111	317.9		PASS
8DPSK	3-DH5		2.8800	120	345.6		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

FCC ID:2BW3Q-H06

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



