

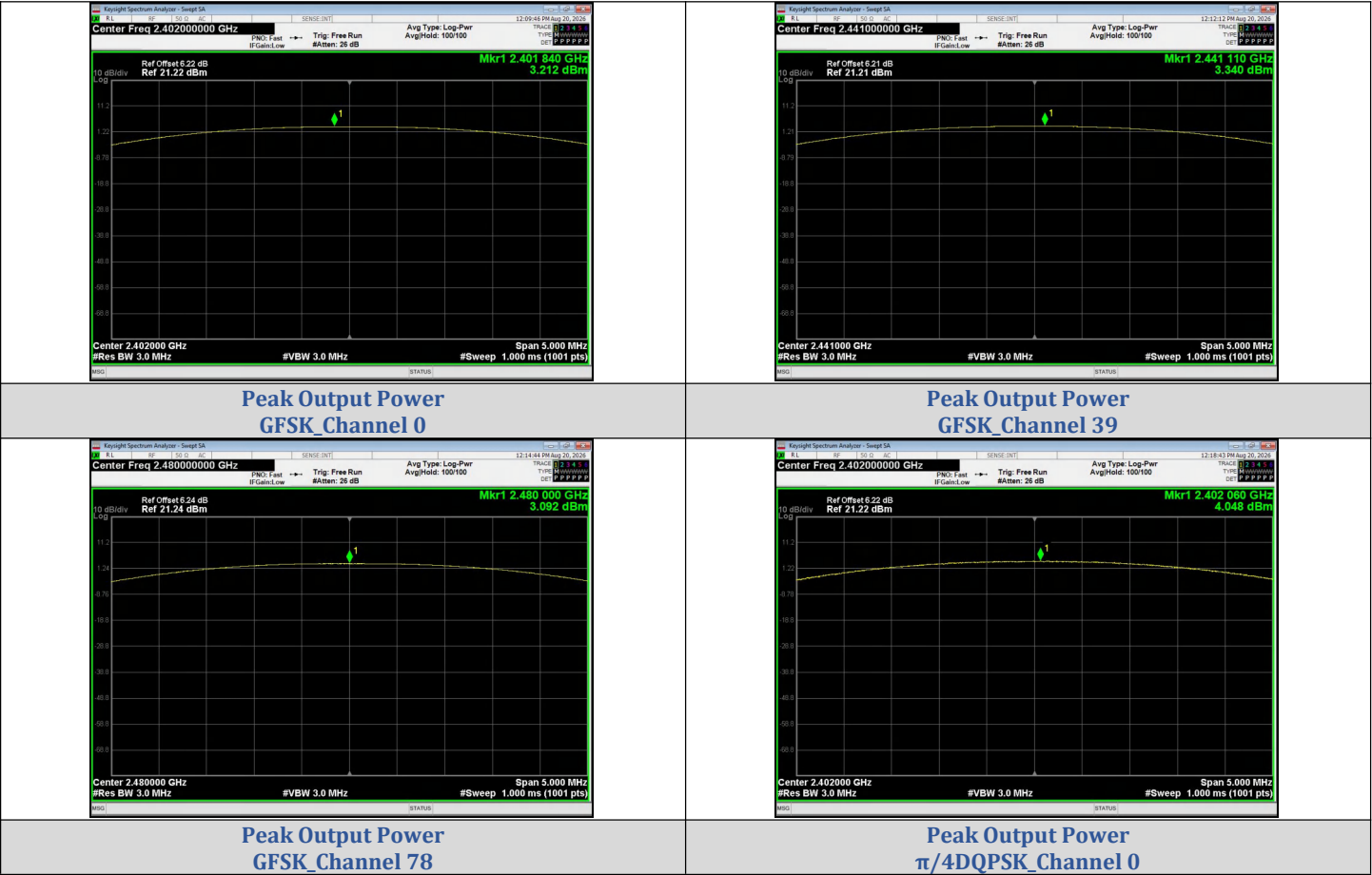
Appendix A:Test Results of Bluetooth BR & EDR

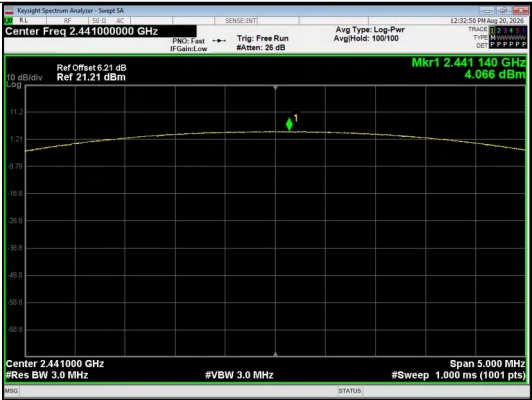
Conducted Output Power

Test Result

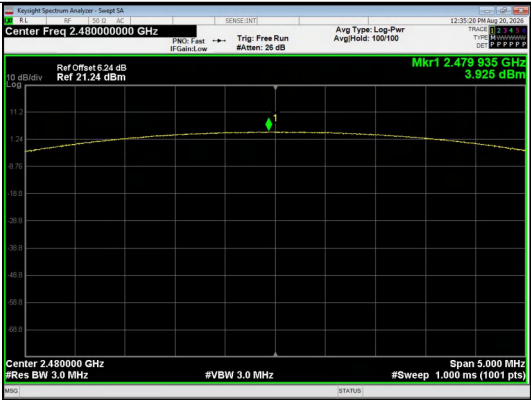
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Verdict
GFSK	DH5	0	3.212	2.10	None	30	PASS
		39	3.340	2.16	None		PASS
		78	3.092	2.04	None		PASS
π /4DQPSK	2-DH5	0	4.048	2.54	None		PASS
		39	4.066	2.55	None		PASS
		78	3.925	2.47	None		PASS
8DPSK	3-DH5	0	4.472	2.80	None		PASS
		39	4.402	2.76	None		PASS
		78	4.281	2.68	None		PASS

Test Graphs

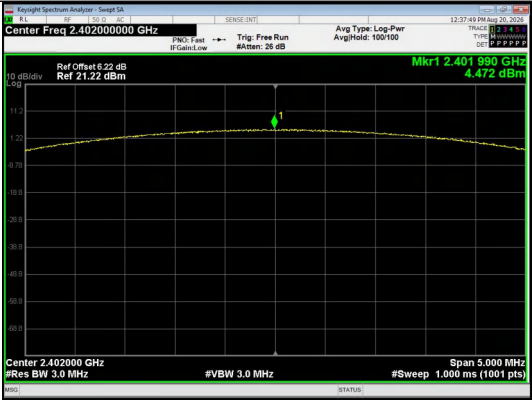




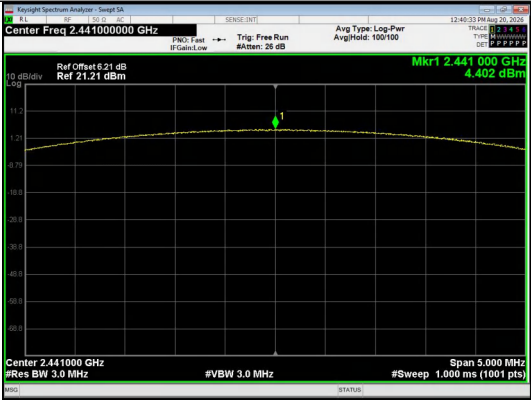
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



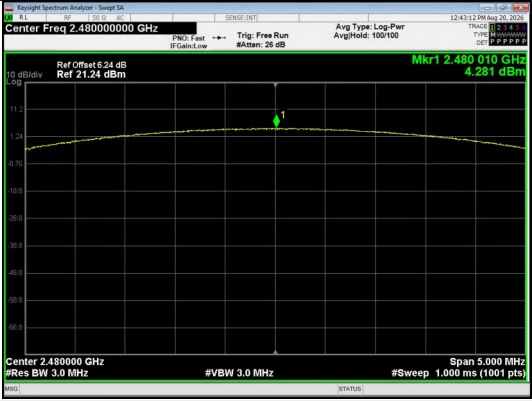
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



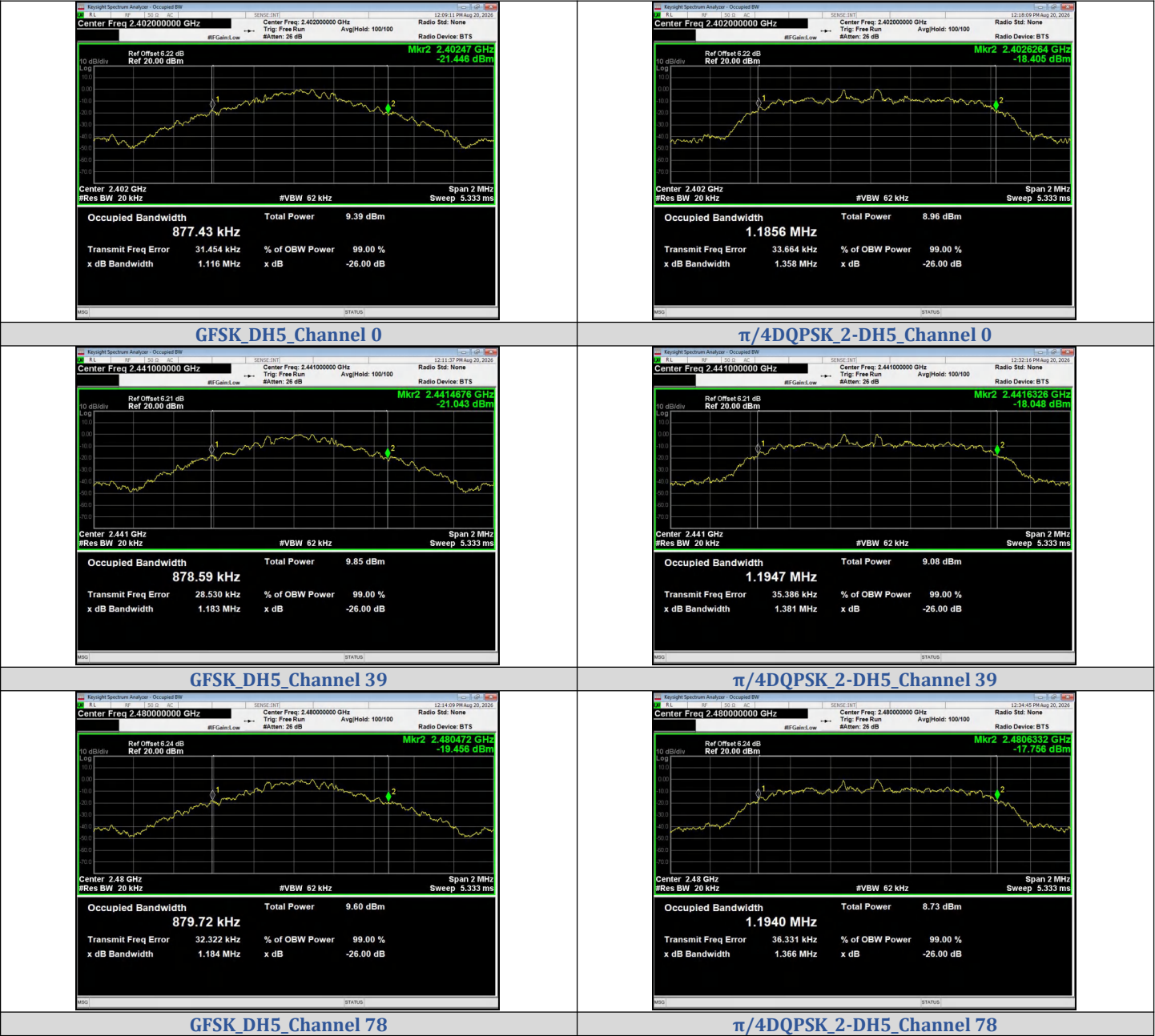
Peak Output Power
8DPSK_Channel 78

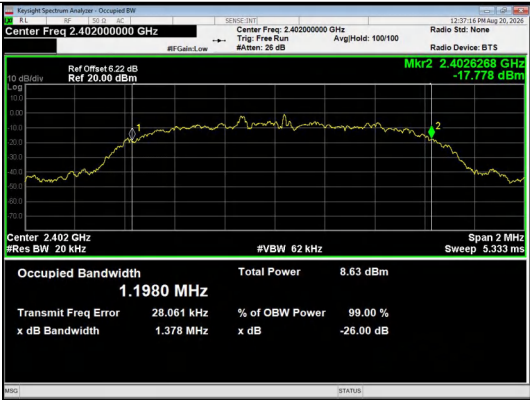
99% Bandwidth

Test Result

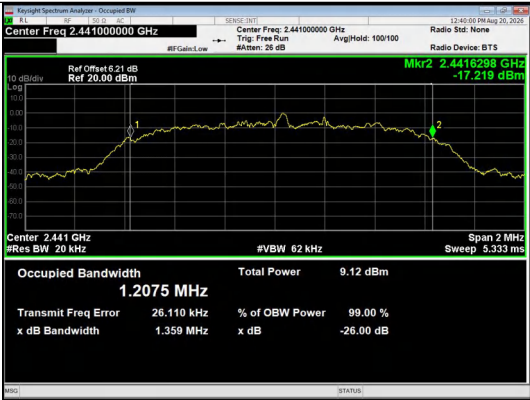
Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.88
	39	2441	0.88
	78	2480	0.88
$\pi/4$ DQPSK	0	2402	1.19
	39	2441	1.19
	78	2480	1.19
8DPSK	0	2402	1.20
	39	2441	1.21
	78	2480	1.20

Test Graphs

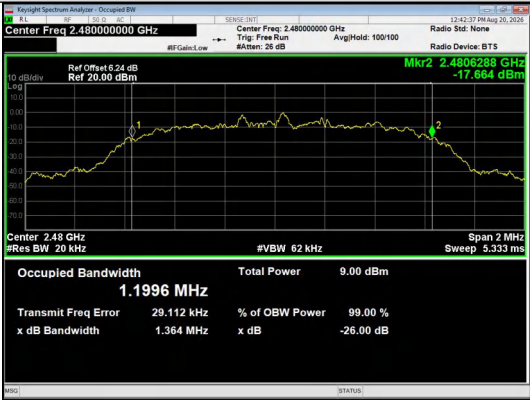




8DPSK_3-DH5_Channel 0



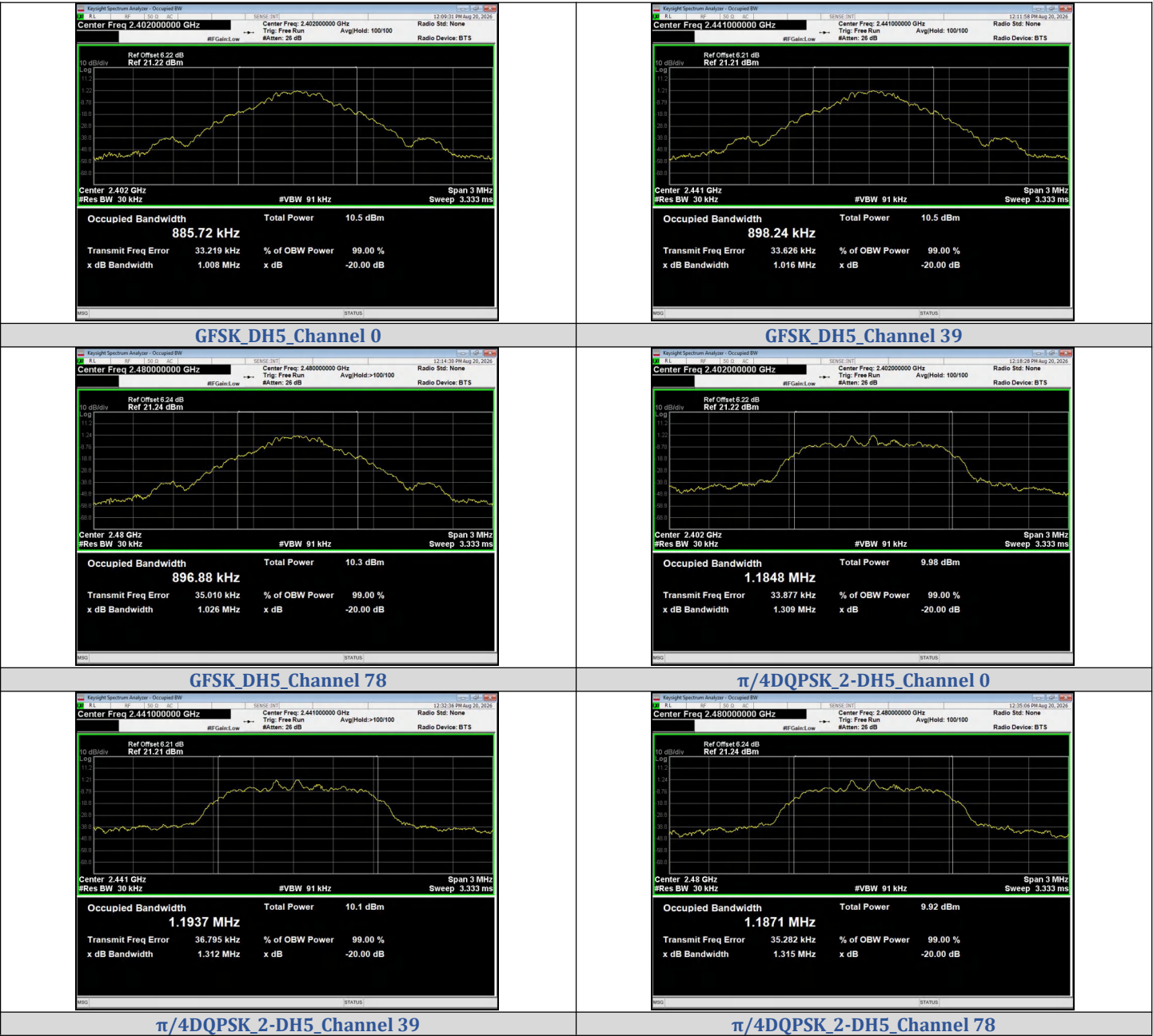
8DPSK_3-DH5_Channel 39

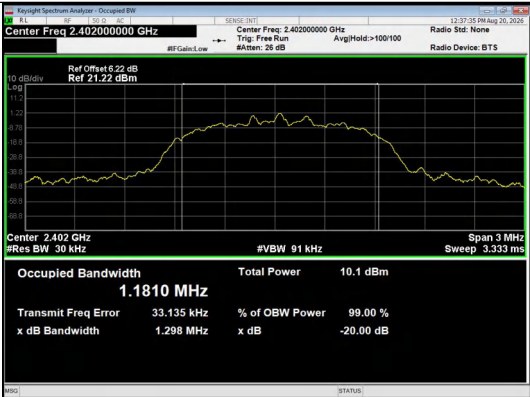


8DPSK_3-DH5_Channel 78

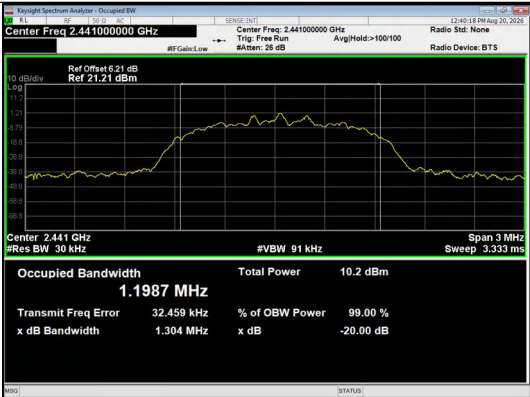
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.008
	39	2441 MHz	1.016
	78	2480 MHz	1.026
$\pi/4$ DQPSK	0	2402 MHz	1.309
	39	2441 MHz	1.312
	78	2480 MHz	1.315
8DPSK	0	2402 MHz	1.298
	39	2441 MHz	1.304
	78	2480 MHz	1.306

Test Graphs

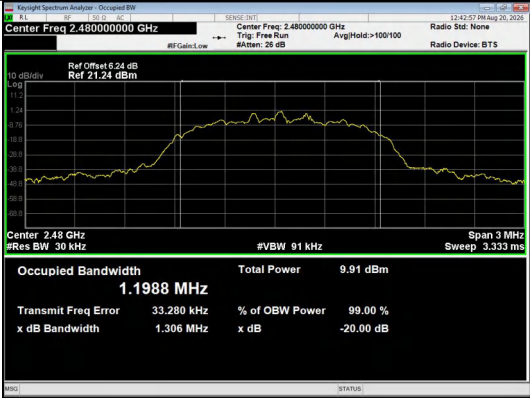




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

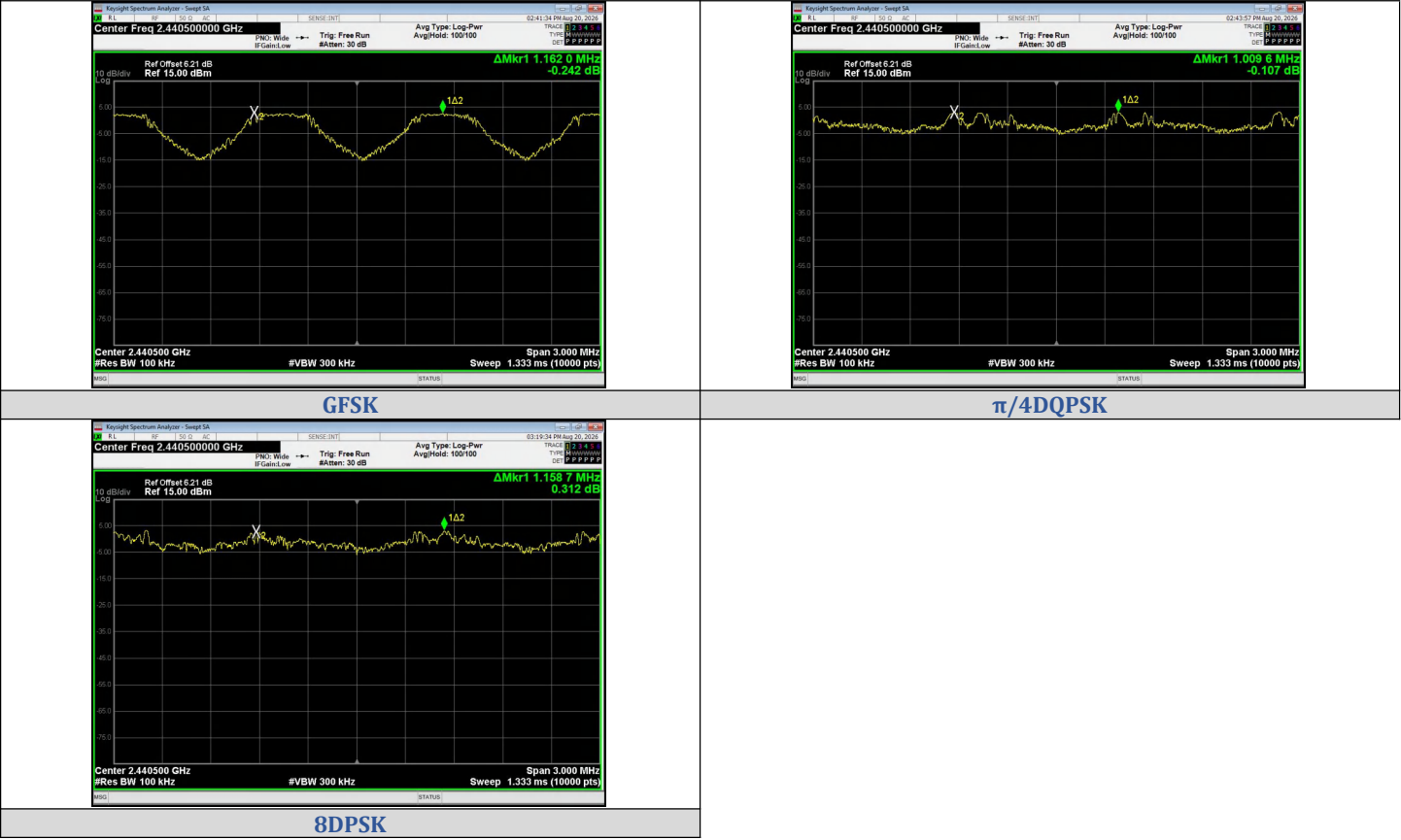
FCC ID:2BFLT-82026

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	2439.8671	2441.0291	1.1620	0.684	PASS
$\pi/4$ DQPSK	2-DH5	2439.8713	2440.8809	1.0096	0.877	PASS
8DPSK	3-DH5	2439.8791	2441.0378	1.1587	0.871	PASS

Test Graphs



FCC ID:2BFLT-82026

Conducted Spurious & Band Edge Emission

Test Result

Non-Hopping

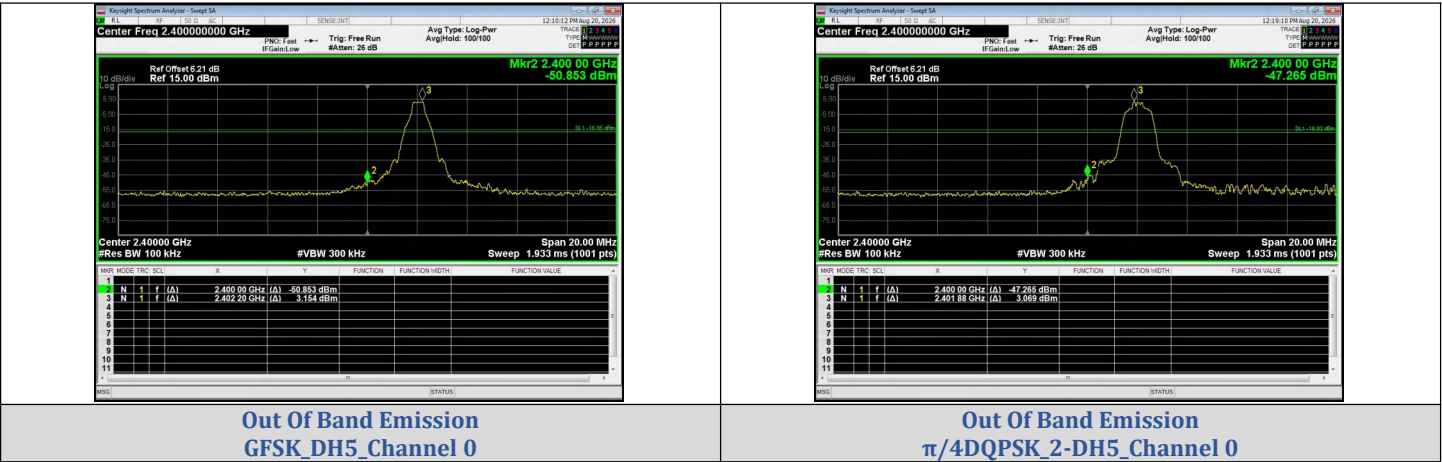
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Verdict
GFSK	DH5	0	2400.00	-50.853	-16.85	-34.003	PASS
			9607.87	-37.853	-16.85	-21.003	PASS
		39	4882.30	-35.939	-16.77	-19.169	PASS
		78	2483.50	-56.570	-16.93	-39.640	PASS
			4960.33	-37.976	-16.93	-21.046	PASS
π /4DQPSK	2-DH5	0	2400.00	-47.265	-16.93	-30.335	PASS
			9607.87	-38.089	-16.93	-21.159	PASS
		39	9763.93	-39.391	-16.80	-22.591	PASS
		78	2483.50	-55.283	-16.98	-38.303	PASS
			4960.33	-39.932	-16.98	-22.952	PASS
8DPSK	3-DH5	0	2400.00	-45.873	-17.11	-28.763	PASS
			9607.87	-37.950	-17.11	-20.840	PASS
		39	4882.30	-37.976	-16.72	-21.256	PASS
		78	2483.50	-55.955	-17.10	-38.855	PASS
			4960.33	-36.336	-17.10	-19.236	PASS

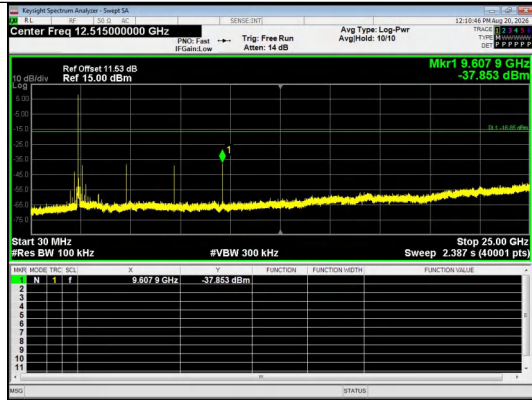
Note: input compensation coefficient (dB)= Cable Loss (dB)

Hopping

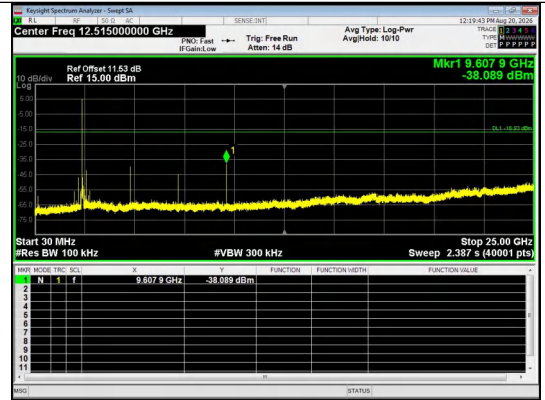
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Verdict
GFSK	DH5	Hopping	2379.07	-52.659	-17.00	-35.659	PASS
			2400.00	-54.176	-17.00	-37.176	PASS
			2483.50	-54.893	-16.89	-38.003	PASS
π /4DQPSK	2-DH5		2400.00	-49.734	-17.01	-32.724	PASS
			2483.50	-55.824	-17.08	-38.744	PASS
8DPSK	3-DH5		2400.00	-48.511	-17.08	-31.431	PASS
			2483.50	-54.681	-16.99	-37.691	PASS
Note: input compensation coefficient (dB)= Cable Loss (dB)							

Test Graphs

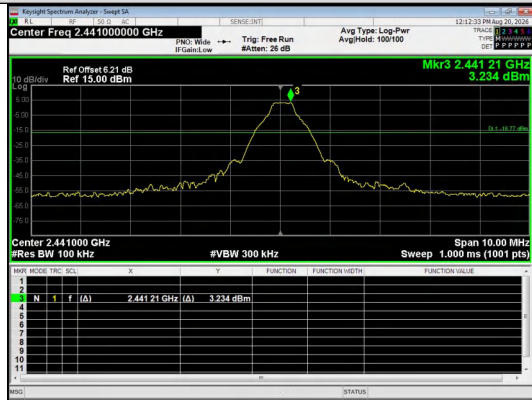




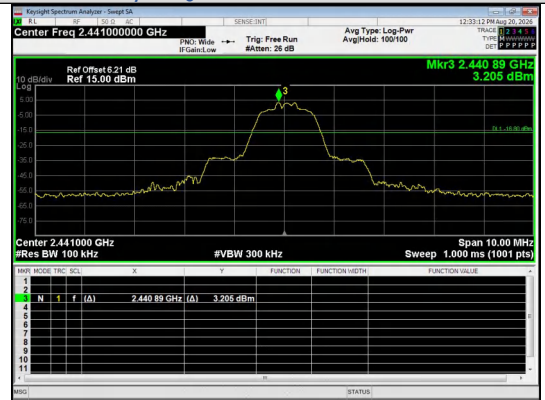
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



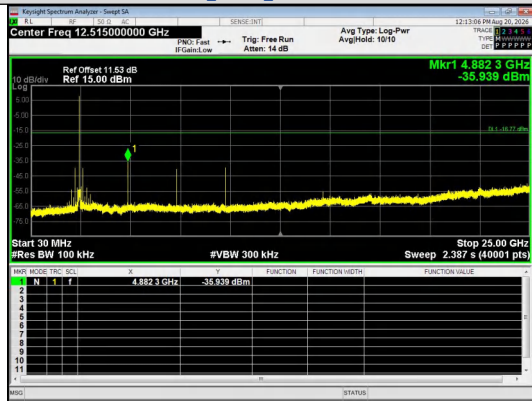
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



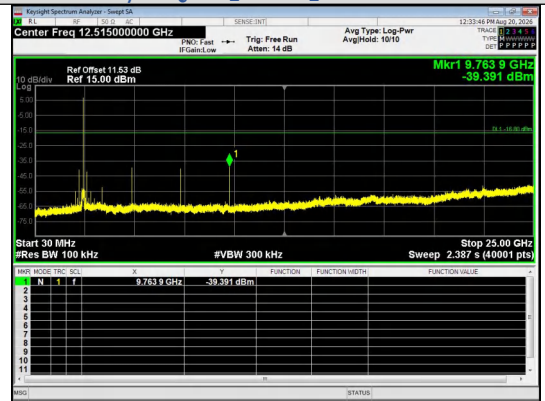
Out Of Band Emission
GFSK_DH5_Channel 39



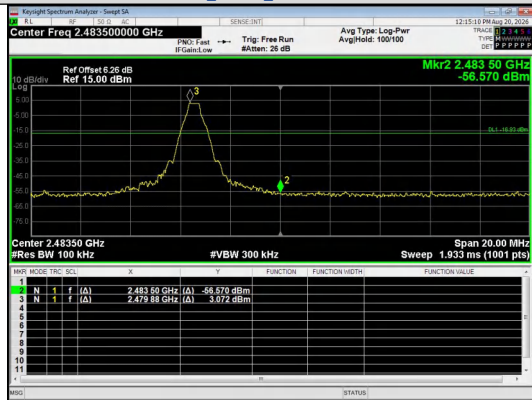
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



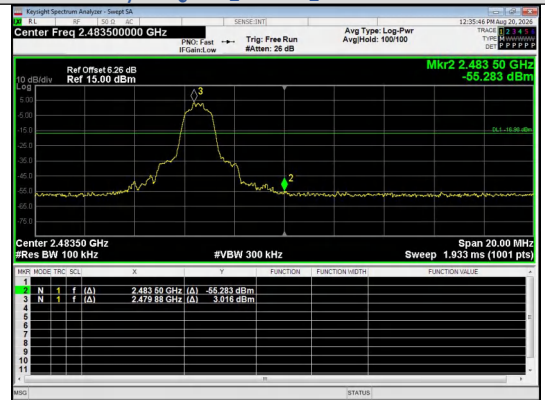
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



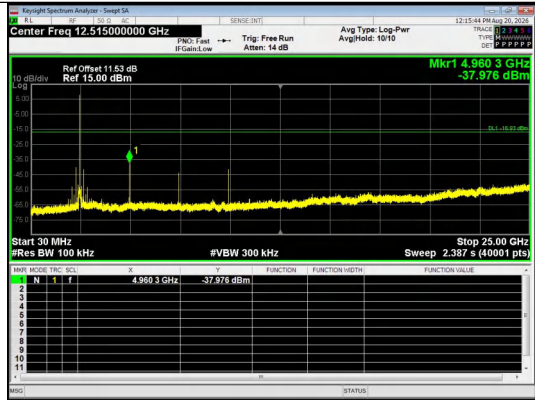
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



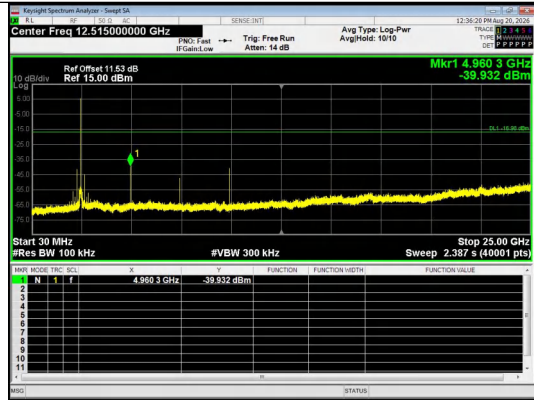
Out Of Band Emission
GFSK_DH5_Channel 78



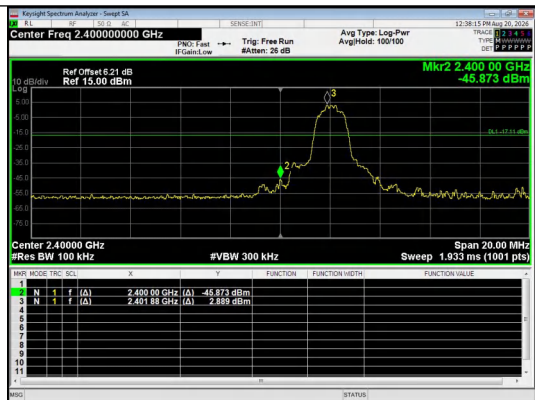
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



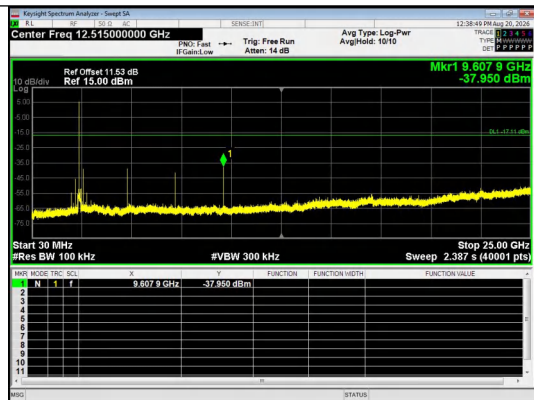
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



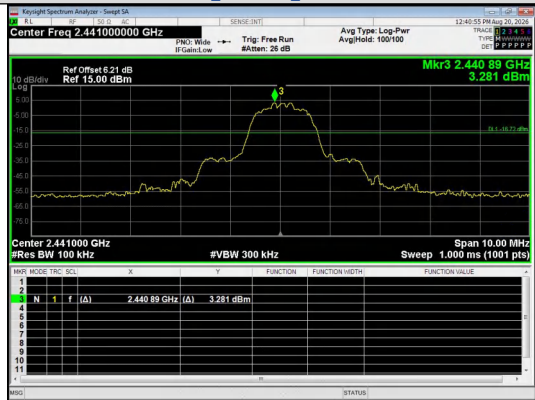
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



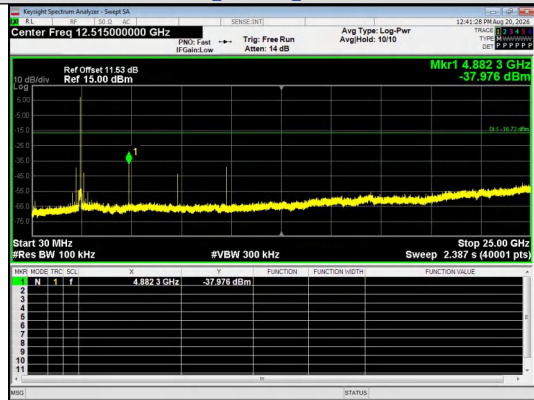
Out Of Band Emission
8DPSK_3-DH5_Channel 0



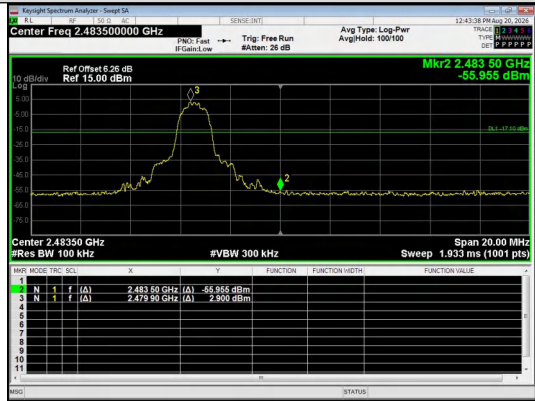
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



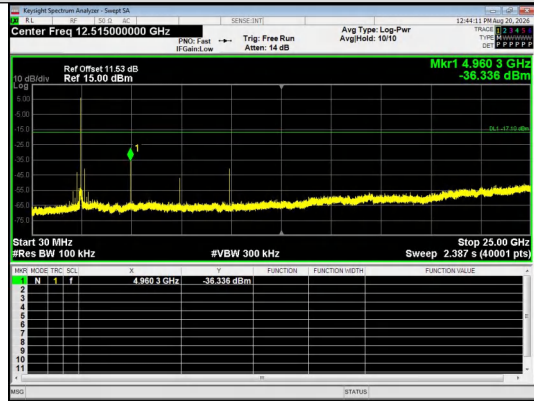
Out Of Band Emission
8DPSK_3-DH5_Channel 39



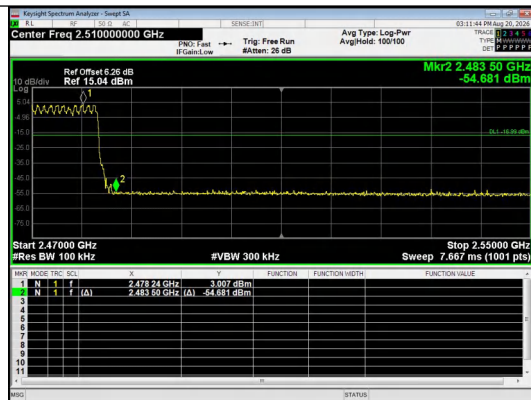
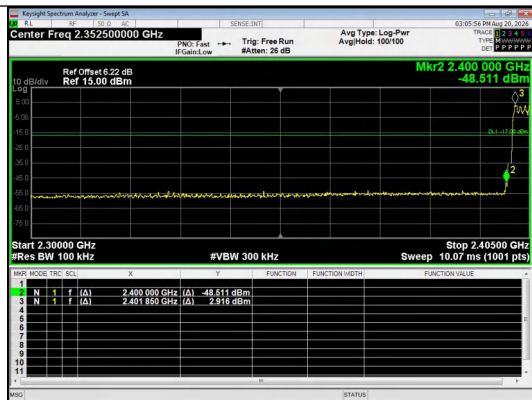
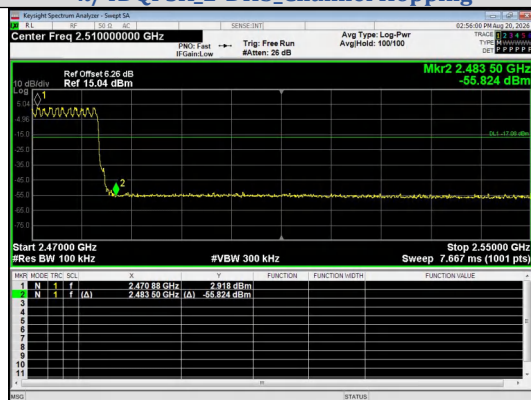
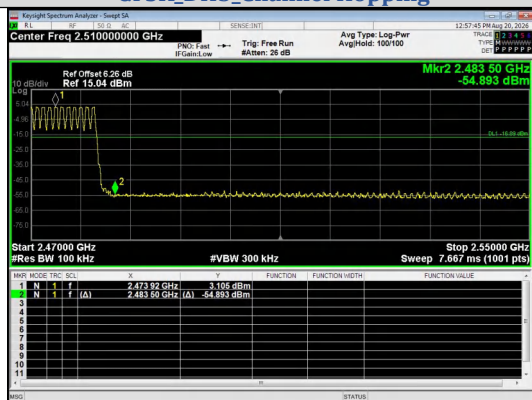
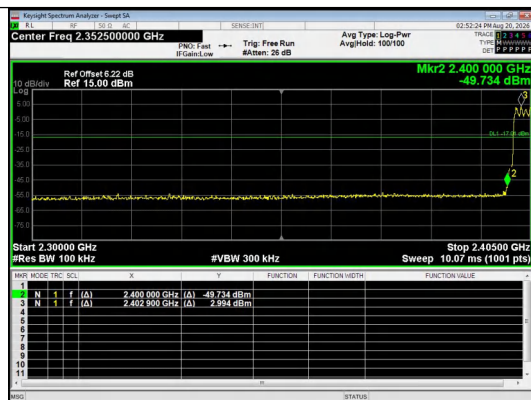
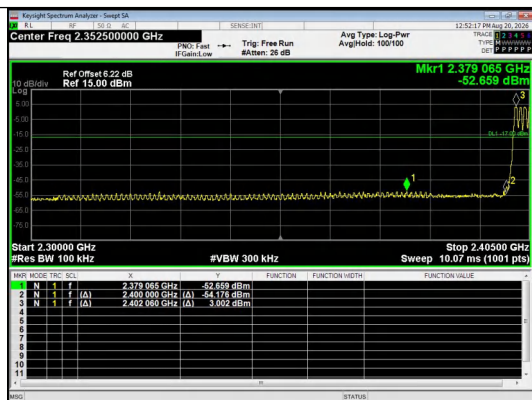
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



Out Of Band Emission



30.0 MHz - 25000.0 MHz

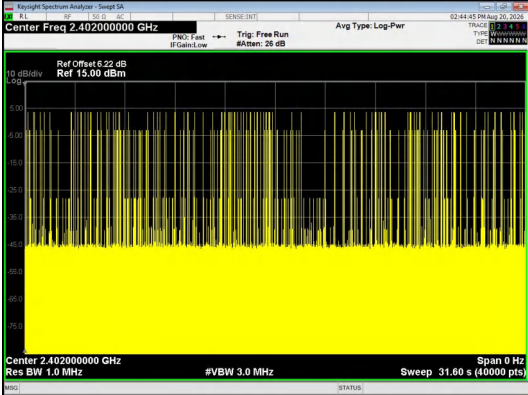
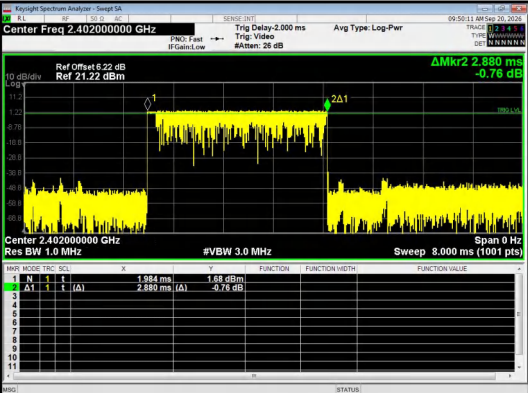


Dwell Time

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	121	348.48	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.8800	105	302.4		PASS
8DPSK	3-DH5		2.8800	111	319.68		PASS
Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds							

Test Graphs

	
Pulse Width GFSK_DH5	Number of Pulses in 31.6 seconds GFSK_DH5
	
Pulse Width $\pi/4$ DQPSK_2-DH5	Number of Pulses in 31.6 seconds $\pi/4$ DQPSK_2-DH5
	
Pulse Width 8DPSK_3-DH5	Number of Pulses in 31.6 seconds 8DPSK_3-DH5

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

