

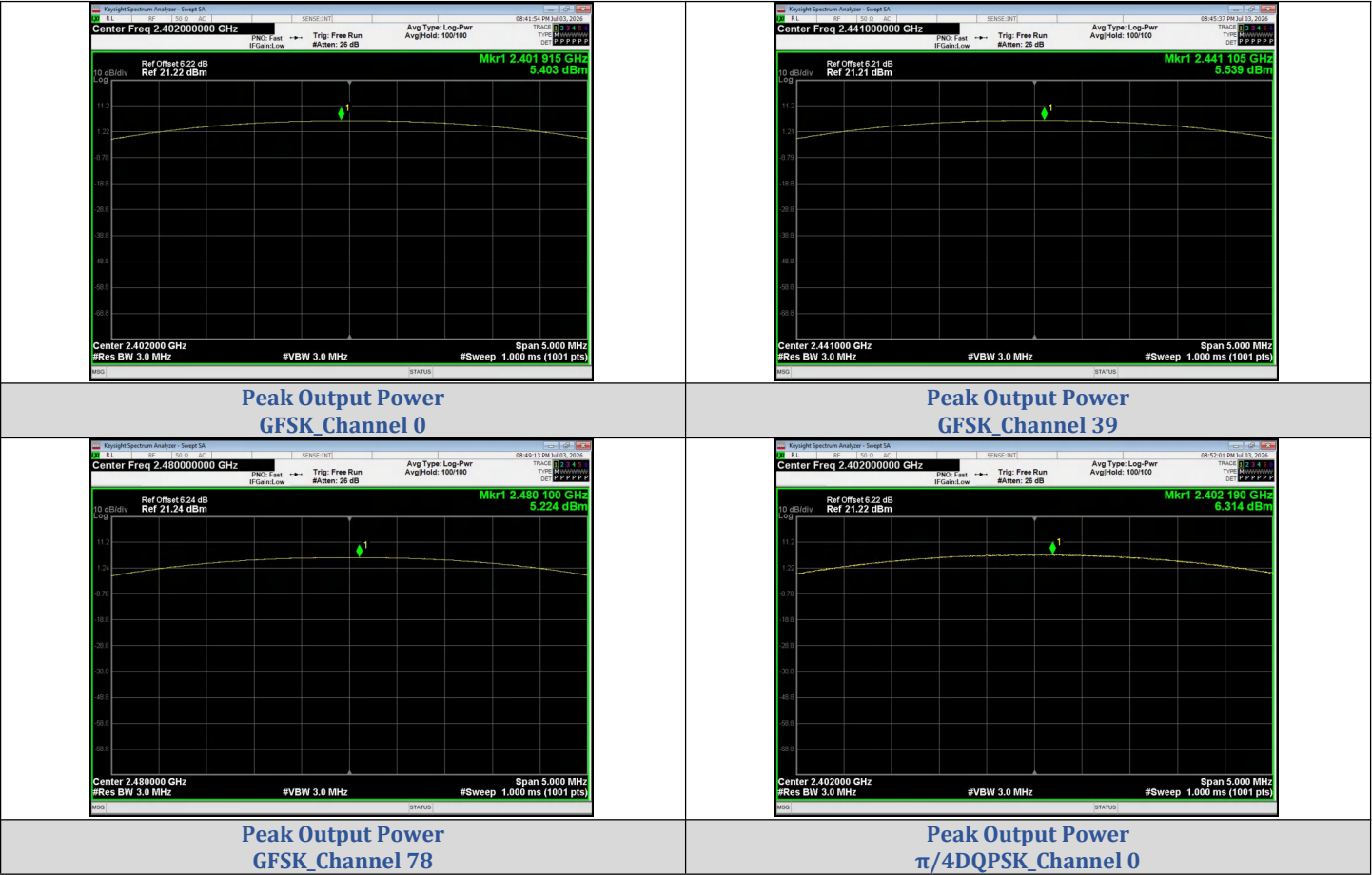
Appendix A:Test Results of Bluetooth BR & EDR

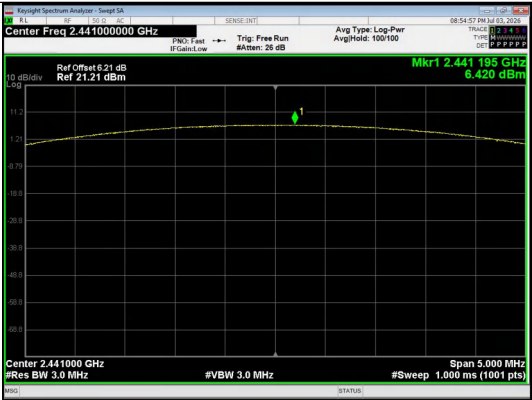
Conducted Output Power

Test Result

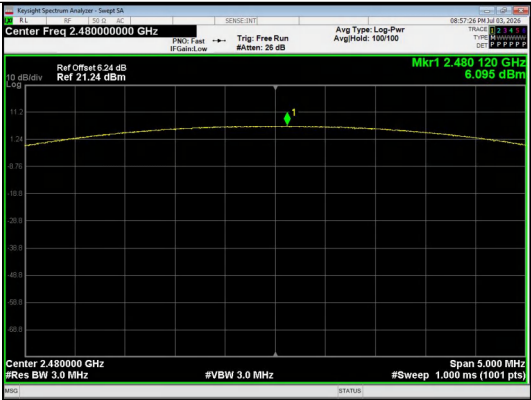
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	5.40	3.47	None	≤30	PASS
		39	5.54	3.58	None		PASS
		78	5.22	3.33	None		PASS
π /4DQPSK	2-DH5	0	6.31	4.28	None		PASS
		39	6.42	4.39	None		PASS
		78	6.09	4.07	None		PASS
8DPSK	3-DH5	0	6.80	4.79	None		PASS
		39	6.87	4.86	None		PASS
		78	6.54	4.51	None		PASS

Test Graphs

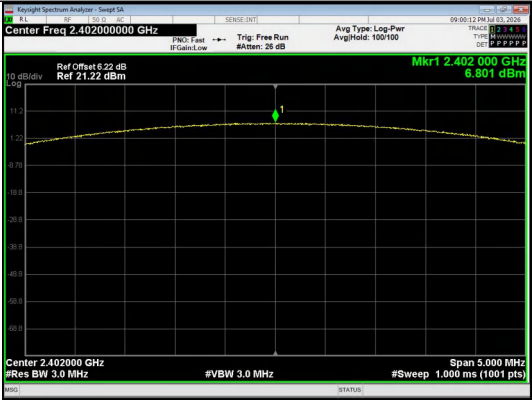




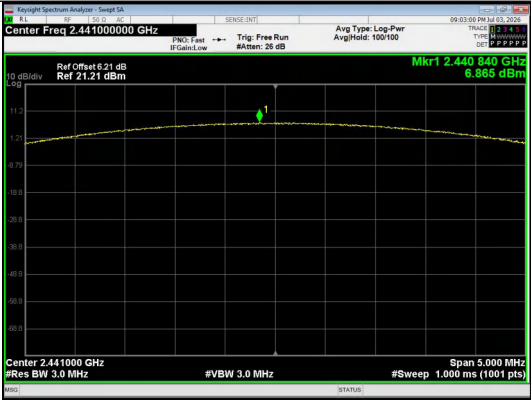
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



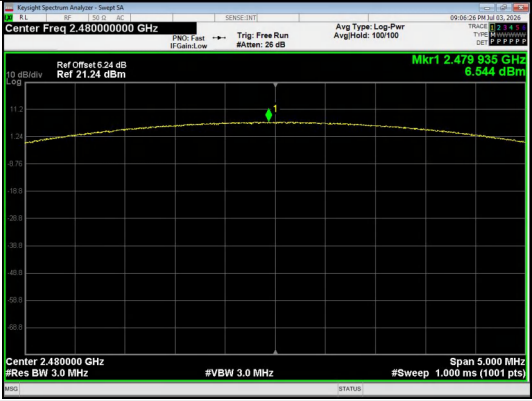
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



Peak Output Power
8DPSK_Channel 78

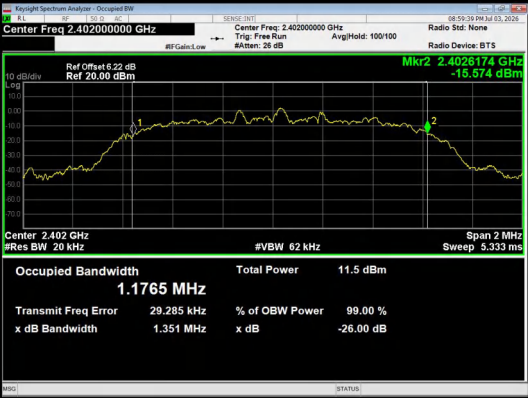
99% Bandwidth

Test Result

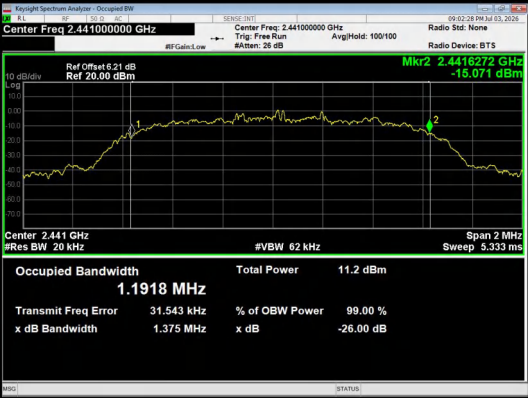
Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.87935
	39	2441	0.87213
	78	2480	0.88378
$\pi/4$ DQPSK	0	2402	1.1859
	39	2441	1.1935
	78	2480	1.1906
8DPSK	0	2402	1.1765
	39	2441	1.1918
	78	2480	1.2006

Test Graphs

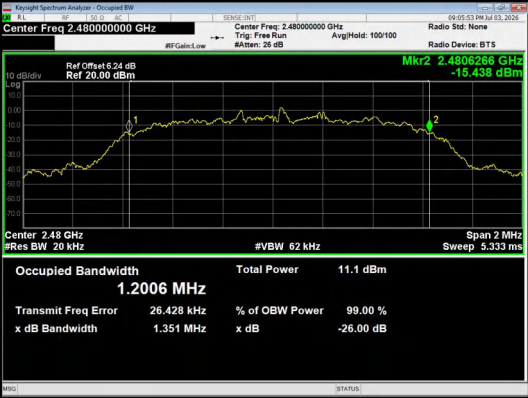




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



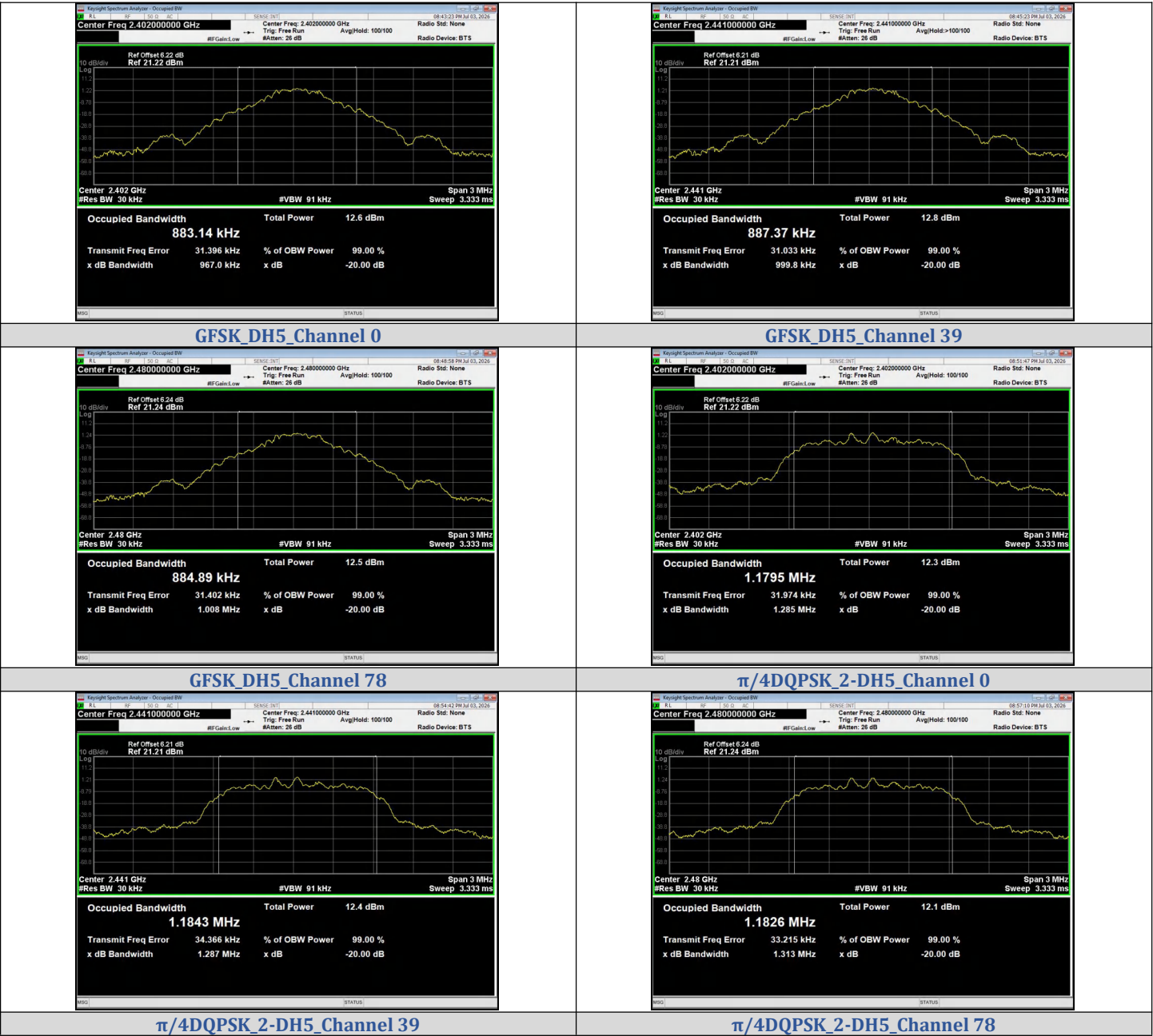
8DPSK_3-DH5_Channel 78

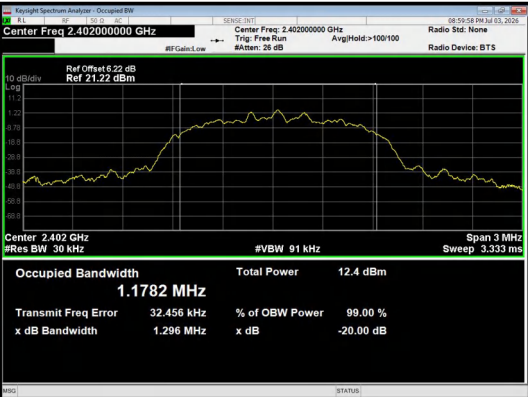
20dB Bandwidth

Test Result

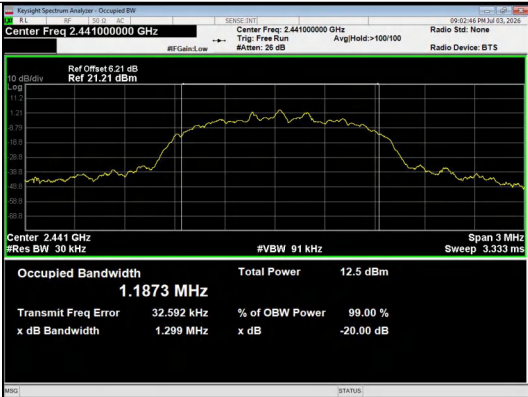
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9670
	39	2441 MHz	0.9998
	78	2480 MHz	1.008
$\pi/4$ DQPSK	0	2402 MHz	1.285
	39	2441 MHz	1.287
	78	2480 MHz	1.313
8DPSK	0	2402 MHz	1.296
	39	2441 MHz	1.299
	78	2480 MHz	1.298

Test Graphs

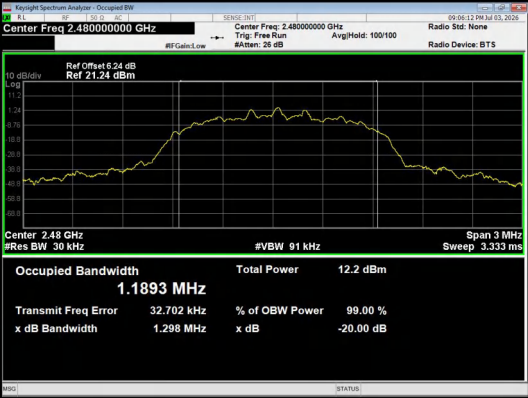




8DPSK_3-DH5_Channel 0



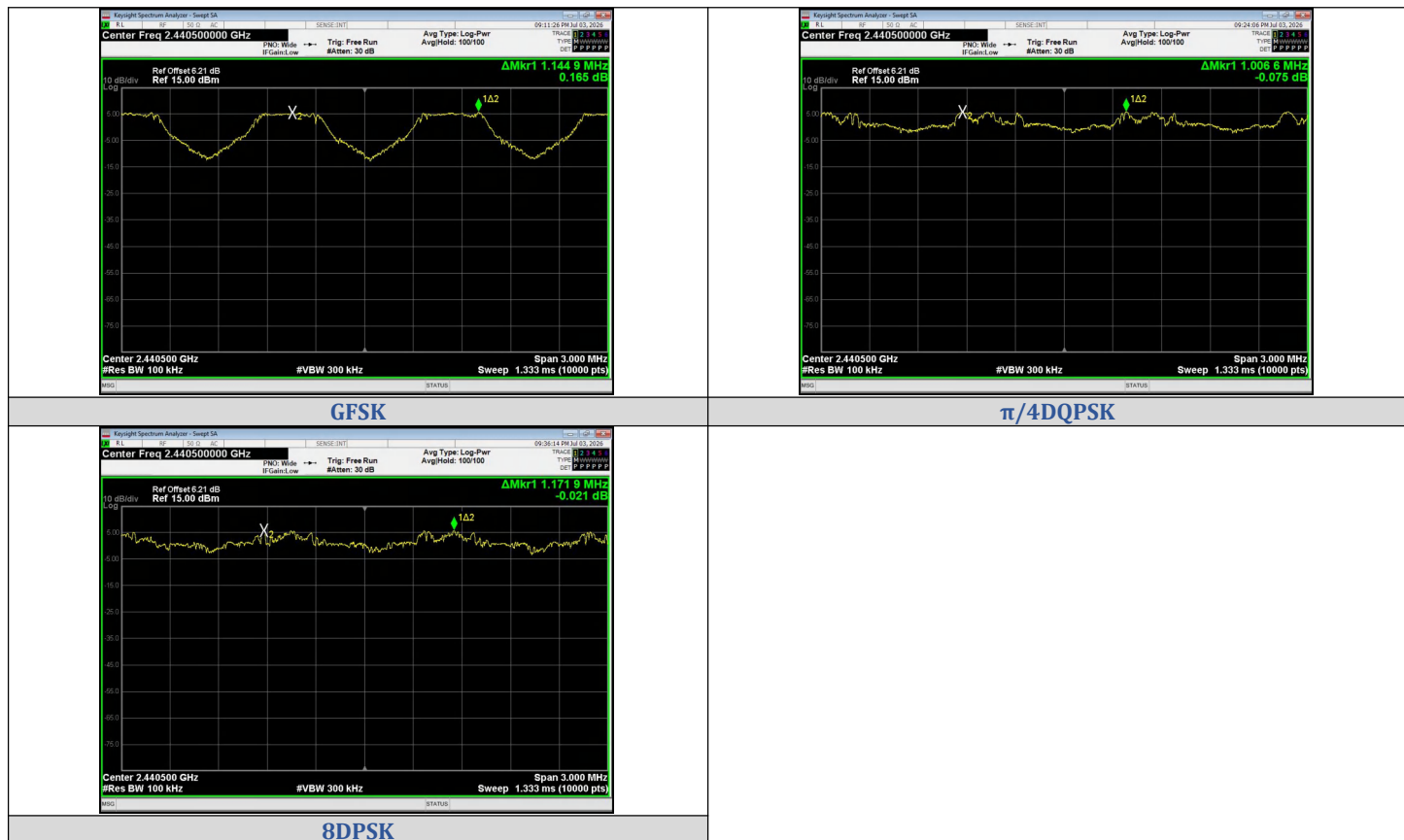
8DPSK_3-DH5_Channel 39



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	2440.0549	2441.1998	1.1449	0.672	PASS
$\pi/4$ DQPSK	2-DH5	2439.8734	2440.88	1.0066	0.875	PASS
8DPSK	3-DH5	2439.8779	2441.0498	1.1719	0.866	PASS



FCC ID:2BWUR-SW002

Conducted Spurious & Band Edge Emission

Test Result

Non-Hopping

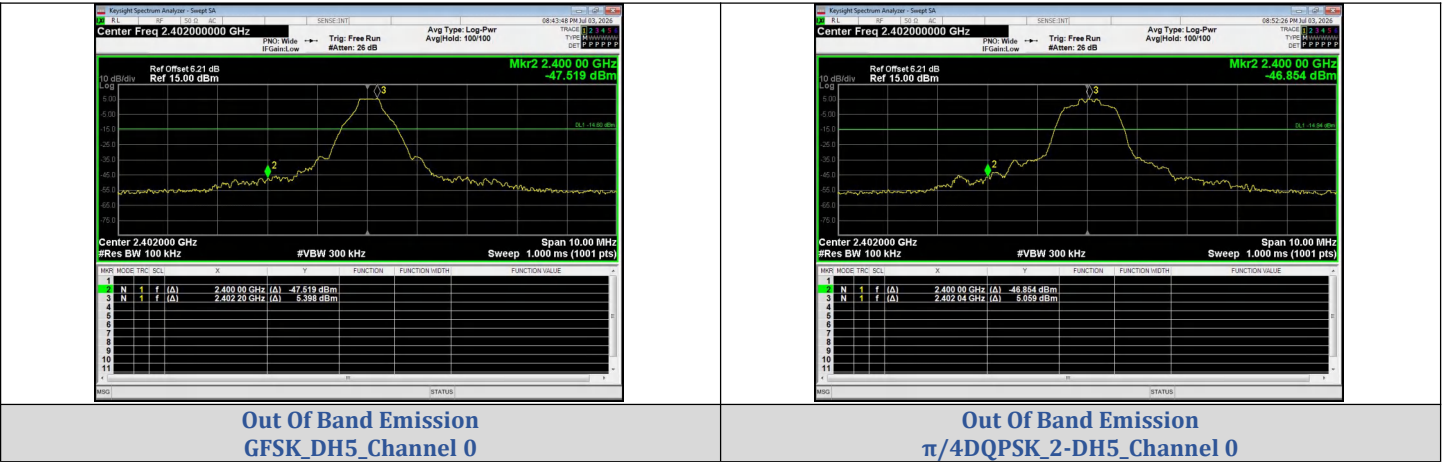
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-47.519	-14.6	-32.919	PASS
			9607.87	-37.753	-14.6	-23.153	PASS
		39	7323.11	-39.152	-14.49	-24.662	PASS
		78	2287.91	-41.124	-14.8	-26.324	PASS
			2483.50	-55.727	-14.8	-40.927	PASS
π /4DQPSK	2-DH5	0	2400.00	-46.854	-14.94	-31.914	PASS
			9607.87	-37.452	-14.94	-22.512	PASS
		39	9763.93	-39.704	-14.51	-25.194	PASS
		78	2483.50	-55.145	-14.82	-40.325	PASS
			9919.99	-41.693	-14.82	-26.873	PASS
8DPSK	3-DH5	0	2400.00	-45.219	-14.56	-30.659	PASS
			9607.87	-37.778	-14.56	-23.218	PASS
		39	9763.93	-39.352	-14.64	-24.712	PASS
		78	2483.50	-54.125	-14.76	-39.365	PASS
			9919.99	-41.409	-14.76	-26.649	PASS

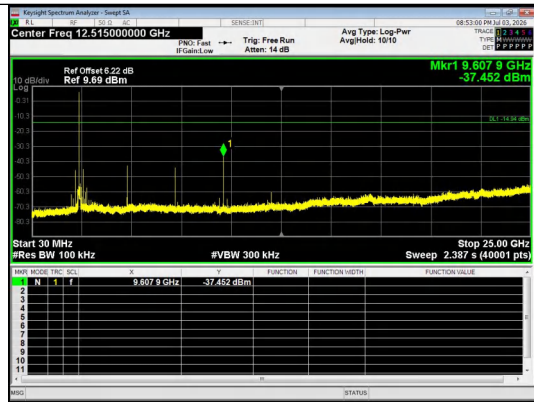
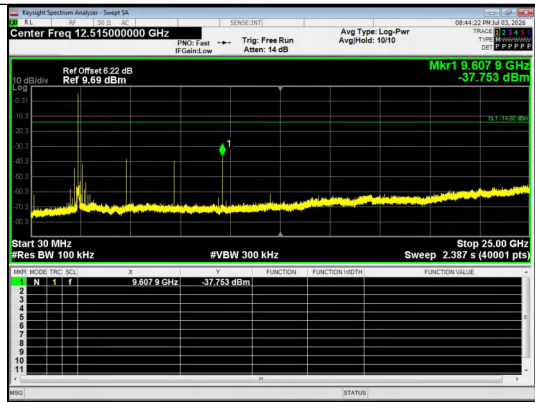
Note: input compensation coefficient (dB)= Cable Loss (dB)

Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2370.98	-50.161	-14.36	-35.801	PASS
			2400.00	-52.218	-14.36	-37.858	PASS
			2483.50	-54.393	-14.33	-40.063	PASS
π /4DQPSK	2-DH5		2400.00	-47.030	-14.47	-32.560	PASS
			2483.50	-54.131	-14.27	-39.861	PASS
8DPSK	3-DH5		2400.00	-47.464	-14.29	-33.174	PASS
			2483.50	-53.384	-14.53	-38.854	PASS
Note: input compensation coefficient (dB)= Cable Loss (dB)							

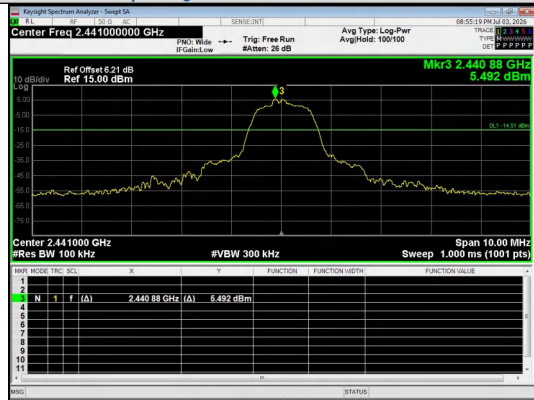
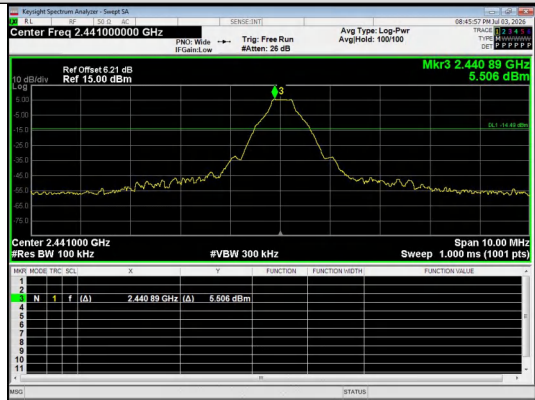
Test Graphs





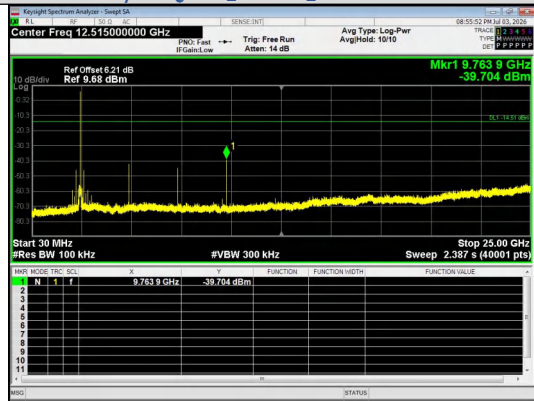
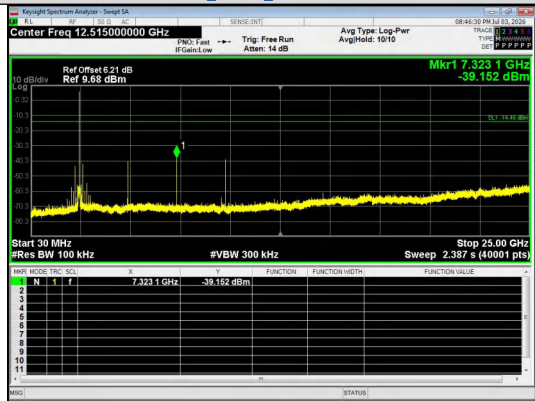
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0

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



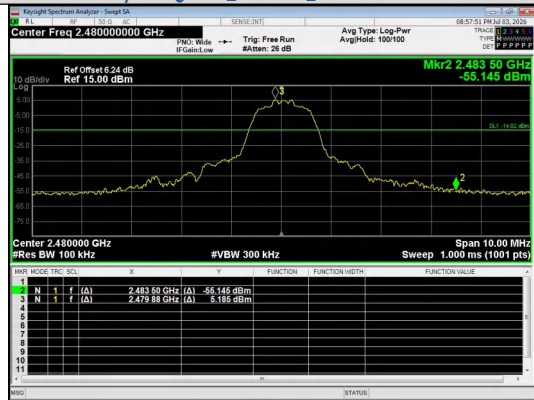
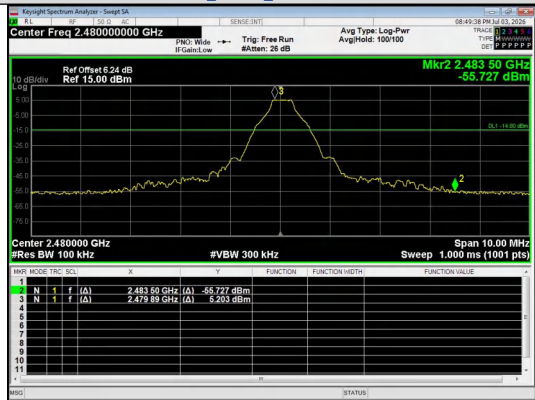
Out Of Band Emission
GFSK_DH5_Channel 39

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



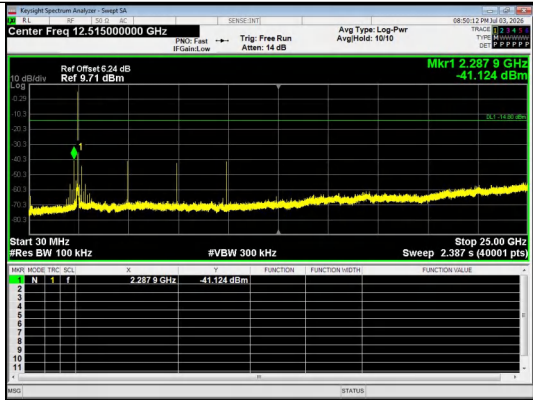
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39

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

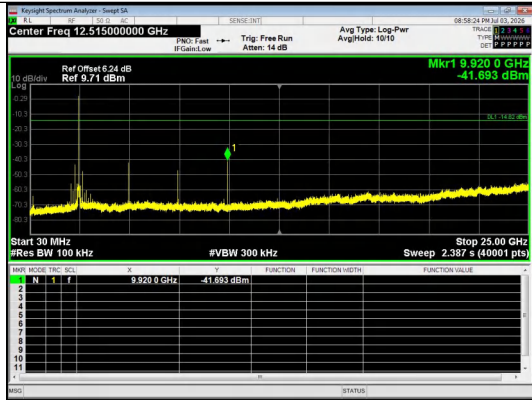


Out Of Band Emission
GFSK_DH5_Channel 78

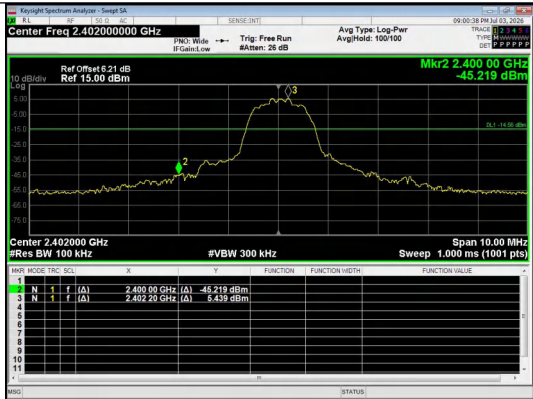
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



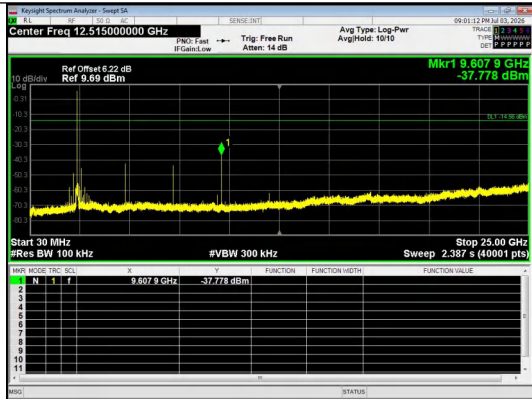
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



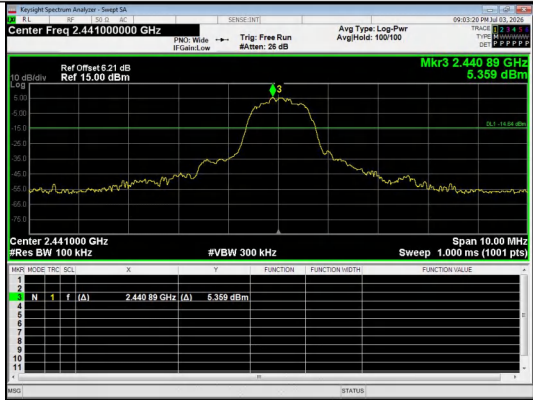
30.0 MHz - 25000.0 MHz
 $\pi/4$ QPSK_2-DH5_Channel 78



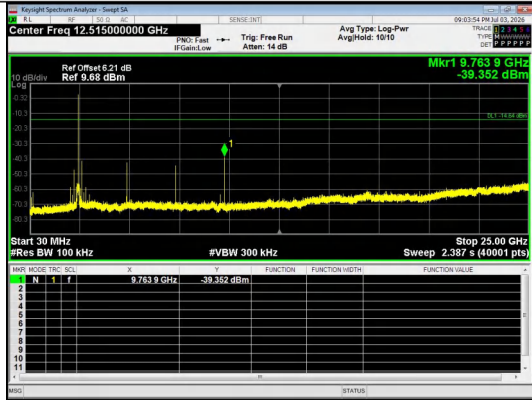
Out Of Band Emission
8DPSK_3-DH5_Channel 0



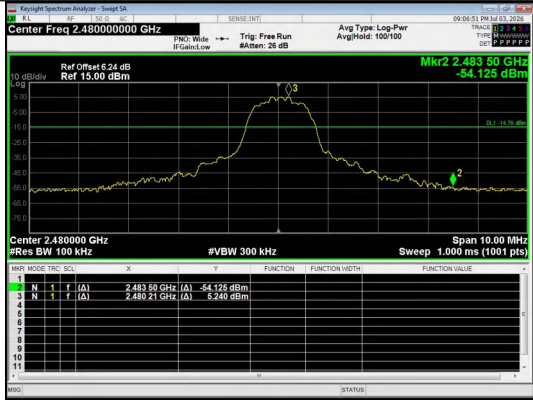
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



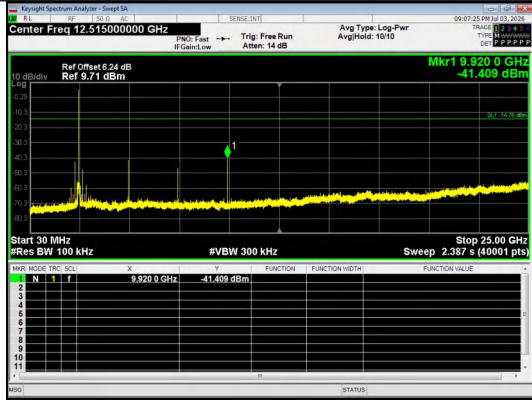
Out Of Band Emission
8DPSK_3-DH5_Channel 39



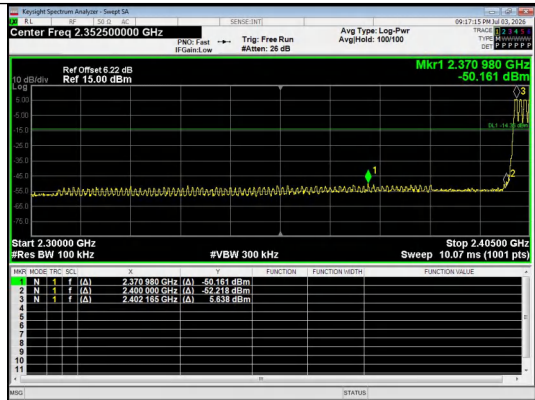
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



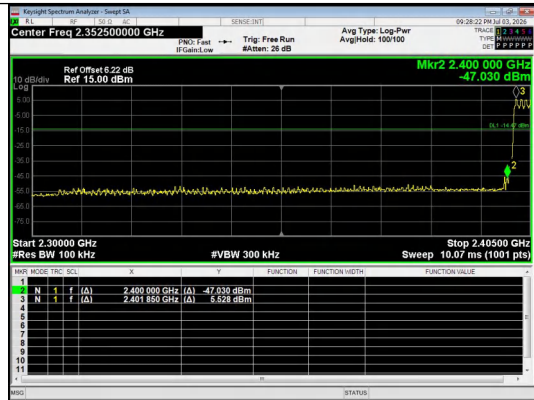
Out Of Band Emission



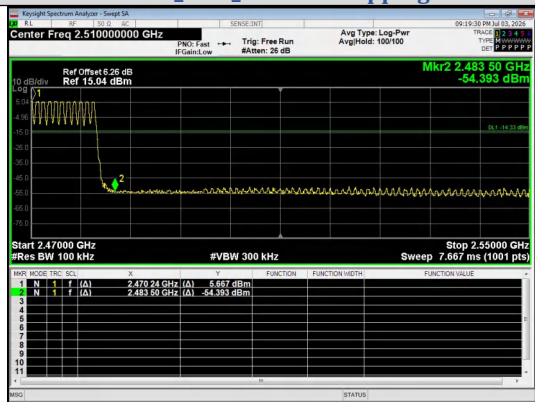
30.0 MHz - 25000.0 MHz



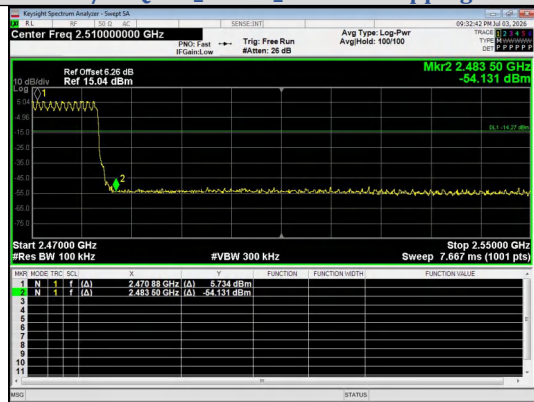
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



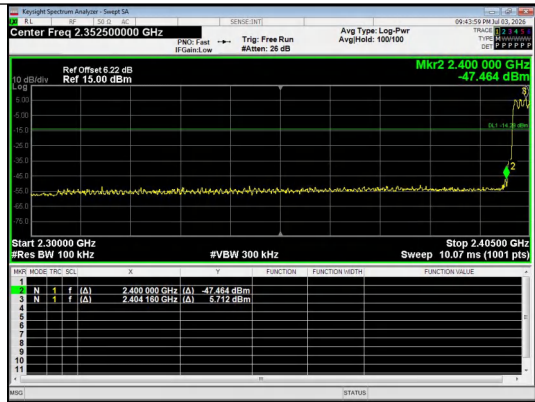
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



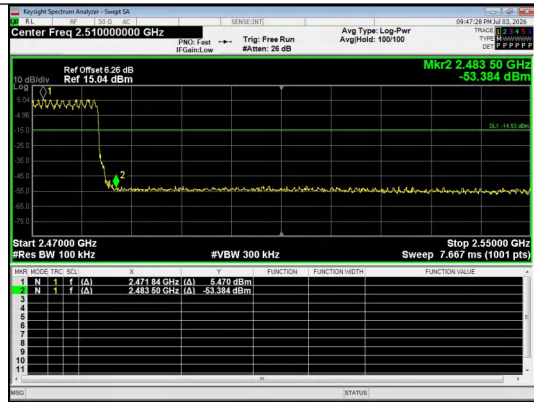
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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

Number of Pulses in 31.6 seconds
8DPSK_3-DH5

FCC ID:2BWUR-SW002

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



