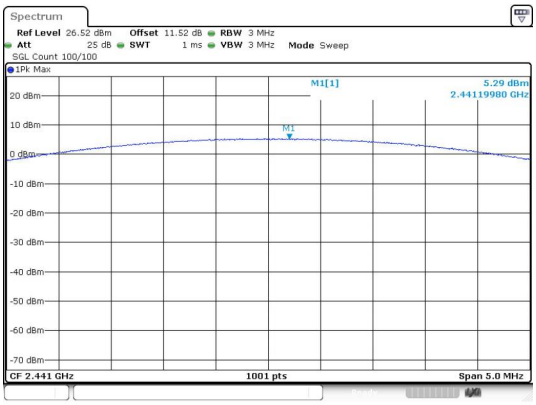
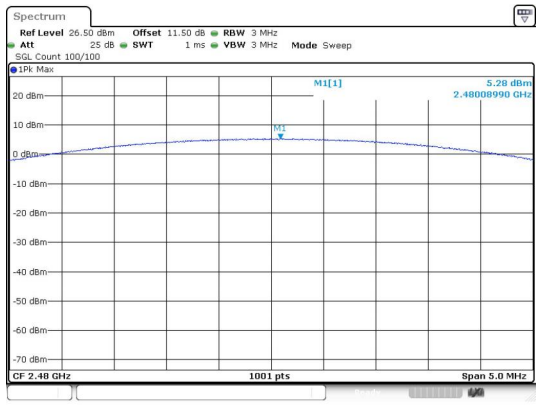
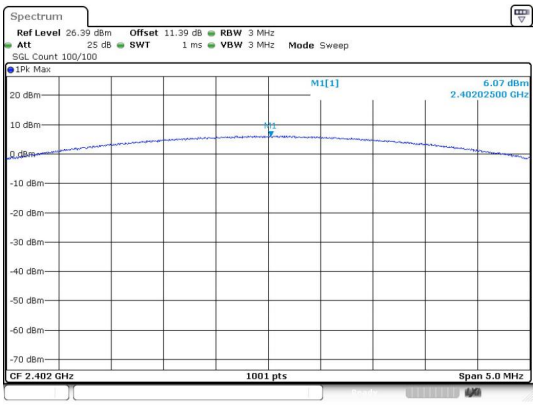


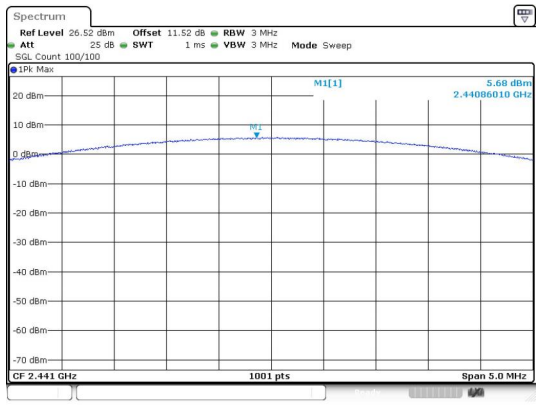
Peak Output Power
π/4DQPSK_Channel 39



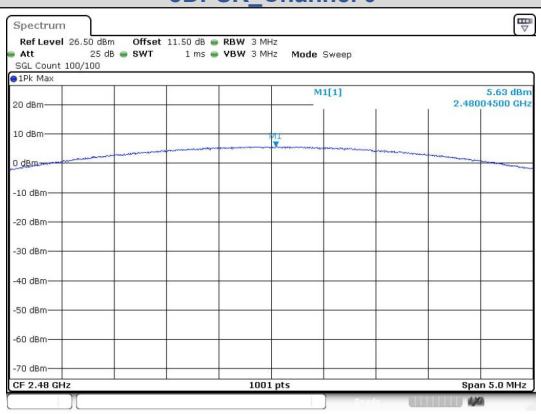
Peak Output Power
π/4DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



Peak Output Power
8DPSK_Channel 78

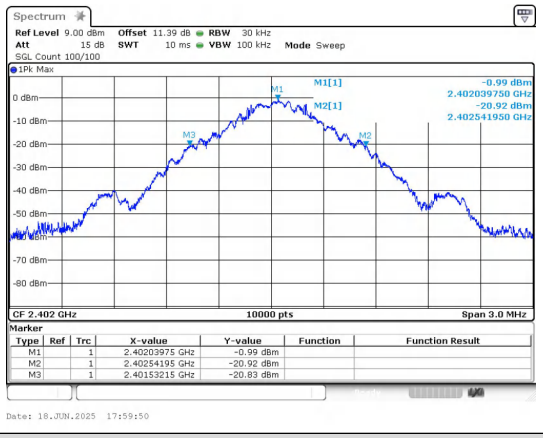
8.5. 20dB Bandwidth

Test Result

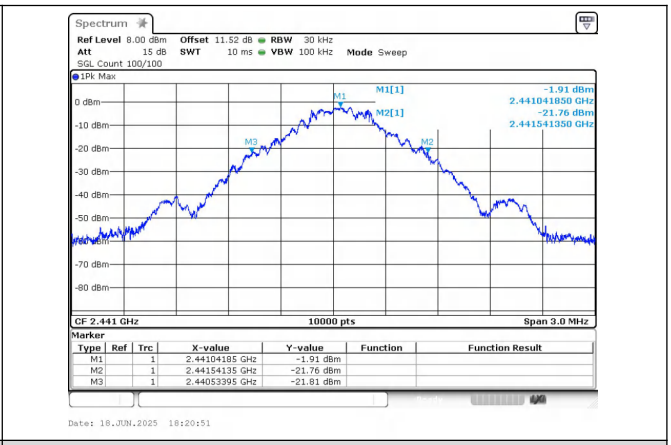
Left：

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.01
	39	2441 MHz	1.01
	78	2480 MHz	1.01
π/4DQPSK	0	2402 MHz	1.280
	39	2441 MHz	1.280
	78	2480 MHz	1.280
8DPSK	0	2402 MHz	1.290
	39	2441 MHz	1.290
	78	2480 MHz	1.290

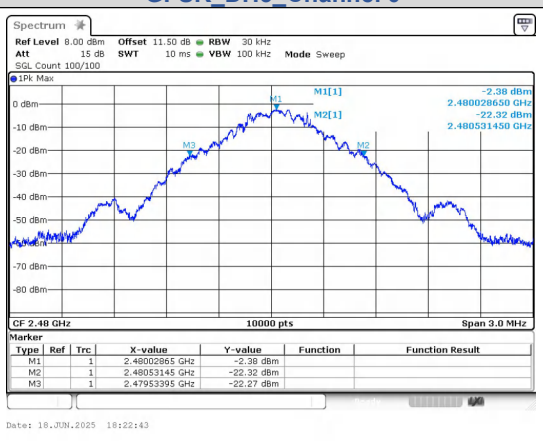
Test Graphs



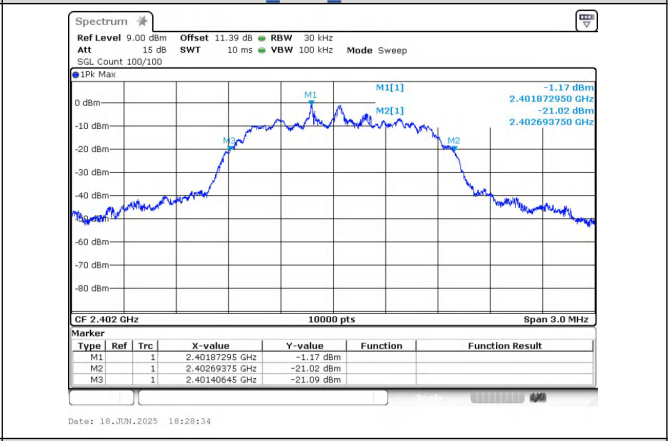
GFSK_DH5_Channel 0



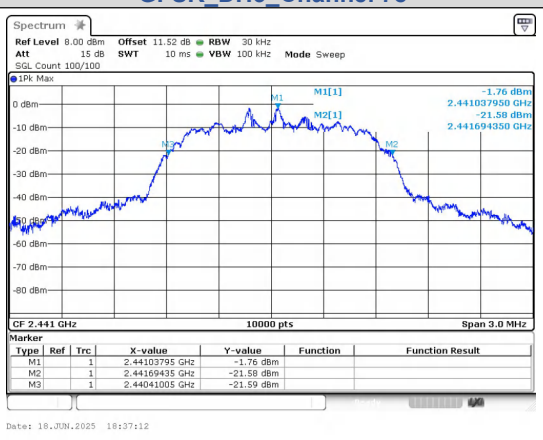
GFSK_DH5_Channel 39



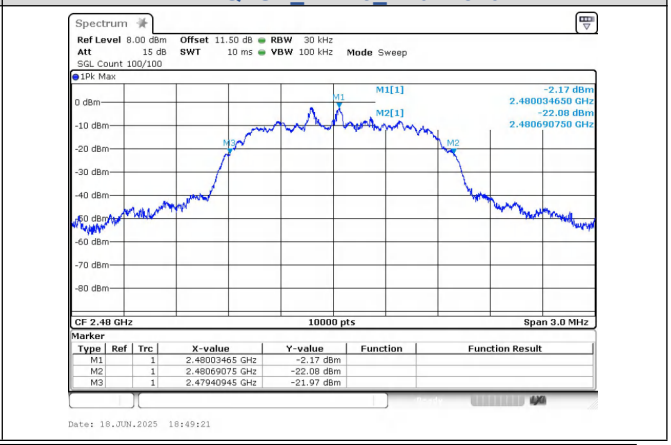
GFSK_DH5_Channel 78



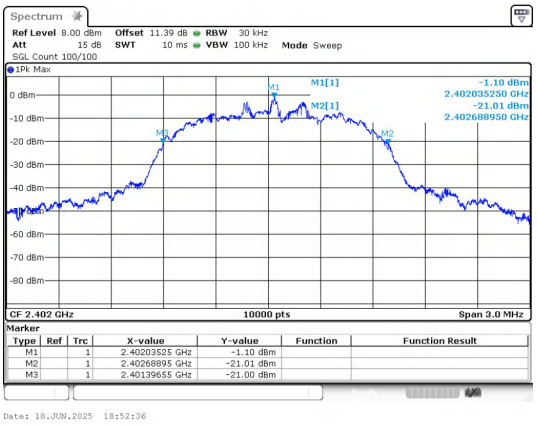
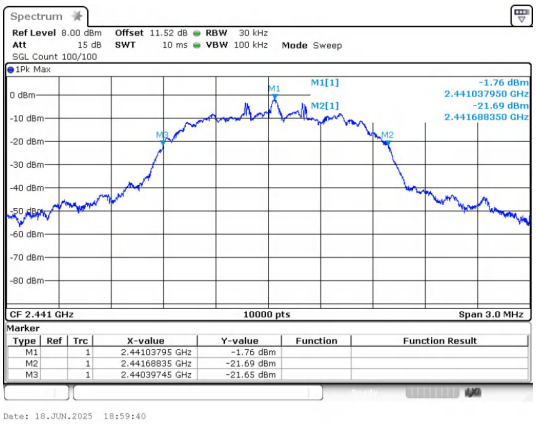
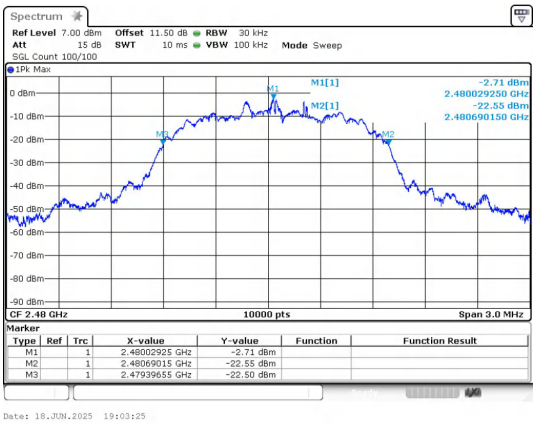
π/4DQPSK_2-DH5_Channel 0



GFSK_DH5_Channel 78



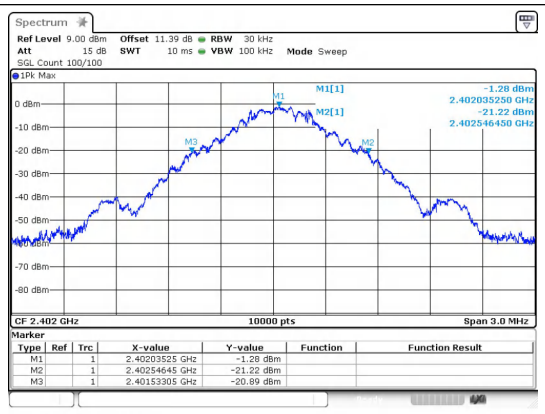
π/4DQPSK_2-DH5_Channel 0

π/4DQPSK_2-DH5_Channel 39	π/4DQPSK_2-DH5_Channel 78
	
8DPSK_3-DH5_Channel 0	**8DPSK_3-DH5_Channel 39**
	
8DPSK_3-DH5_Channel 78	

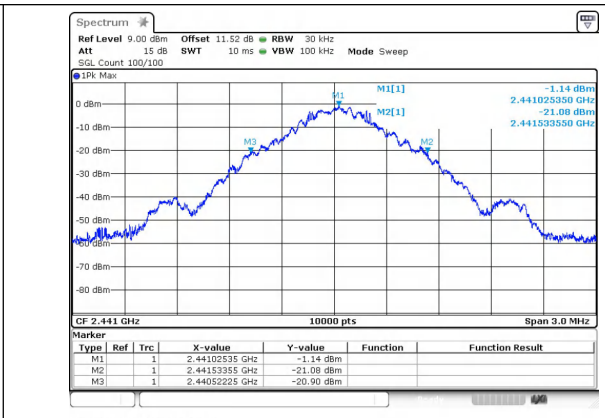
Right:

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.02
	39	2441 MHz	1.02
	78	2480 MHz	1.02
π/4DQPSK	0	2402 MHz	1.280
	39	2441 MHz	1.280
	78	2480 MHz	1.310
8DPSK	0	2402 MHz	1.280
	39	2441 MHz	1.300
	78	2480 MHz	1.300

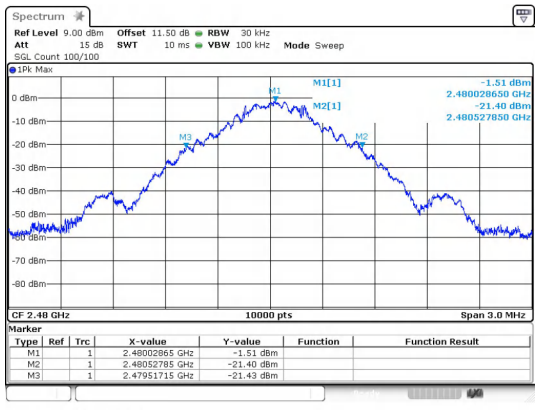
Test Graphs



GFSK_DH5_Channel 0

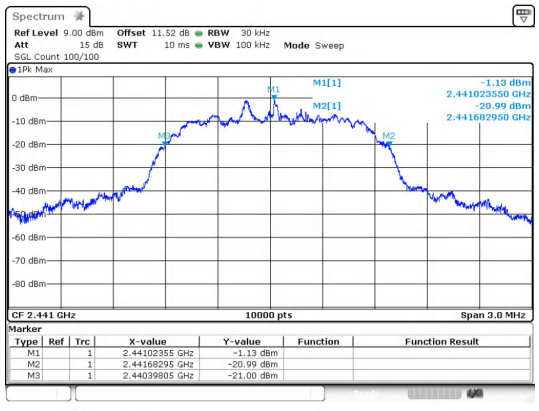


GFSK_DH5_Channel 39

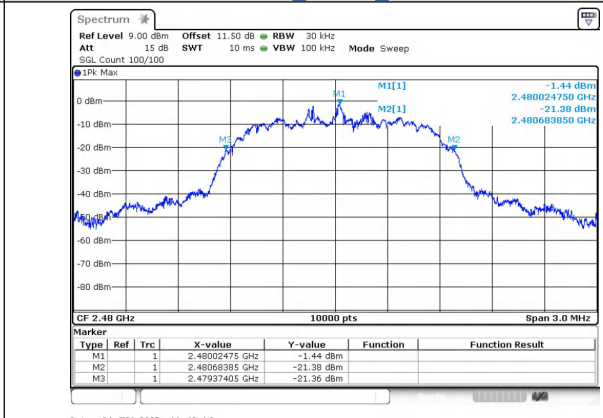


GFSK_DH5_Channel 78

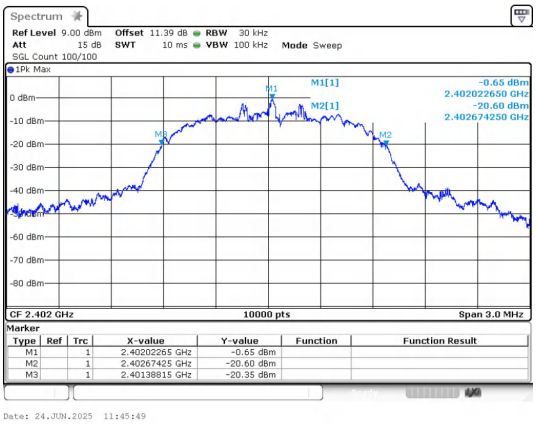
π/4DQPSK_2-DH5_Channel 0



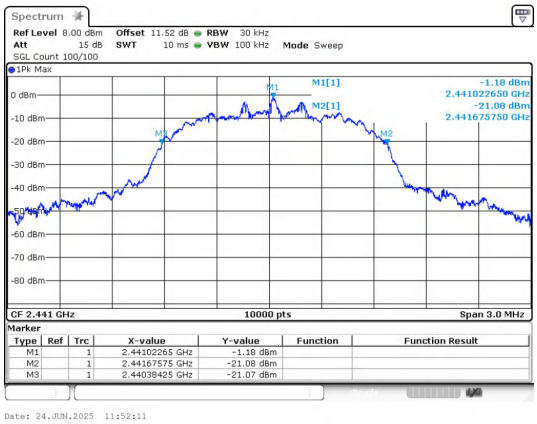
π/4DQPSK_2-DH5_Channel 39



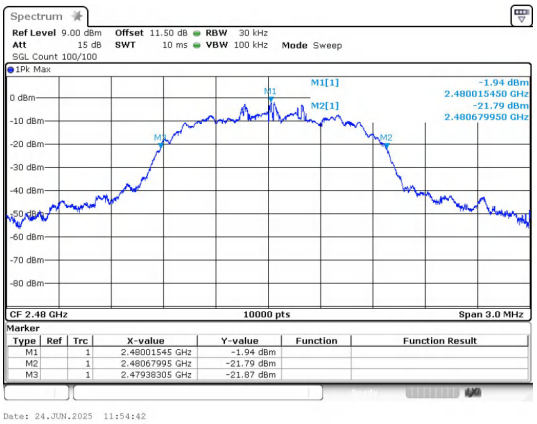
π/4DQPSK_2-DH5_Channel 78



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

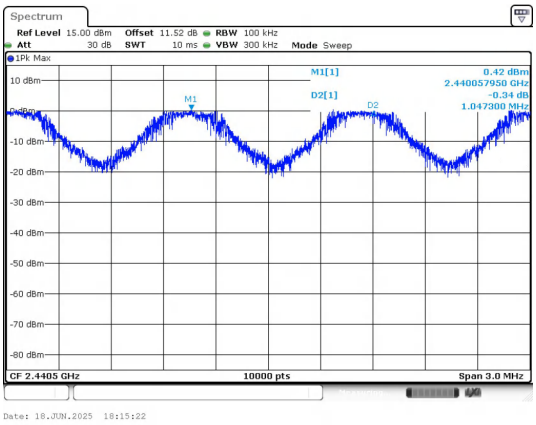
8.6. Carrier Frequencies Separation

Test Result

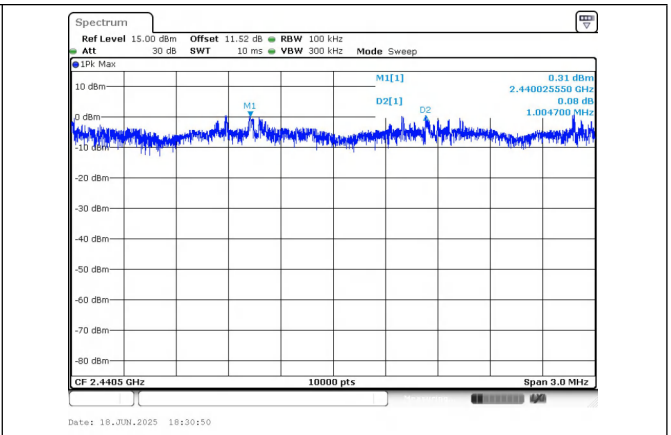
Left：

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.0579	2441.1053	1.0473	1.01	PASS
π/4DQPSK	2-DH5	2440.0255	2441.0302	1.0047	0.853	PASS
8DPSK	3-DH5	2440.0592	2441.1923	1.1331	0.86	PASS

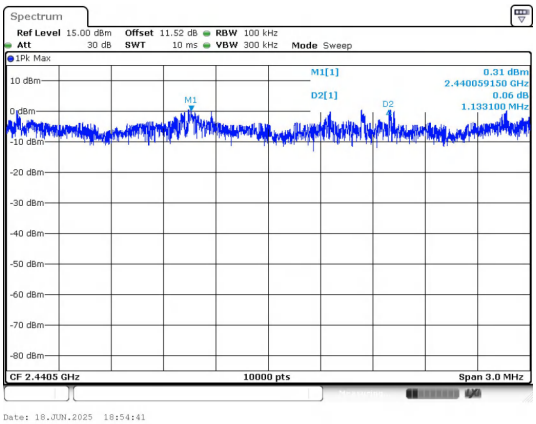
Test Graphs



GFSK



π/4DQPSK

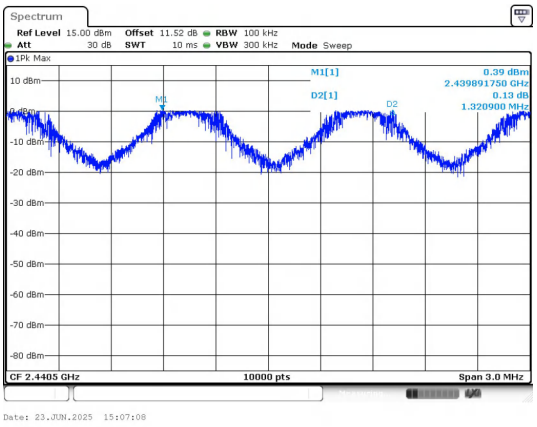


8DPSK

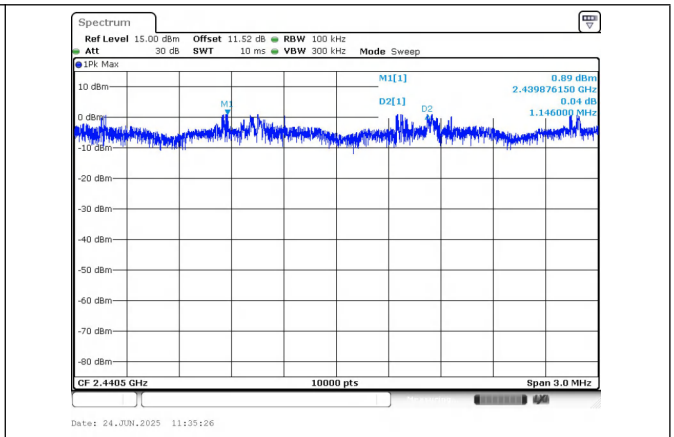
Right:

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8917	2441.2126	1.3209	1.02	PASS
π/4DQPSK	2-DH5	2439.8762	2441.0221	1.1460	0.853	PASS
8DPSK	3-DH5	2439.8488	2440.8646	1.0158	0.86	PASS

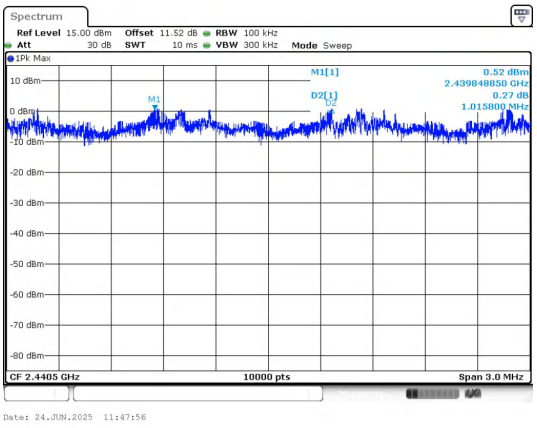
Test Graphs



GFSK



π/4DQPSK



8DPSK

8.7. Conducted Out Of Band Emission

Test Result

Left:

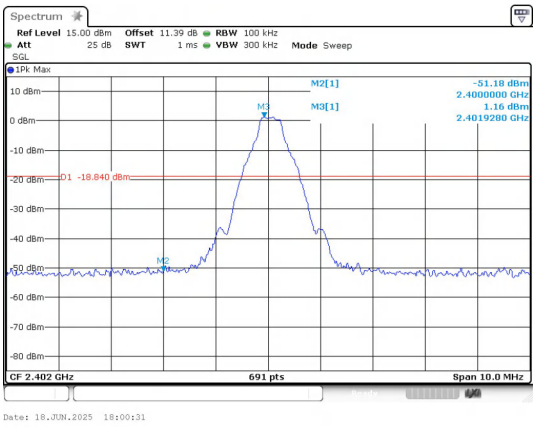
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2399.00	-50.089	-18.84	-31.249	PASS
			2400.00	-51.180	-18.84	-32.340	PASS
			9608.10	-42.707	-18.84	-23.867	PASS
		39	9764.55	-43.995	-19.44	-24.555	PASS
		78	2483.50	-51.980	-19.73	-32.250	PASS
			9920.20	-44.785	-19.73	-25.055	PASS
π/4DQPSK	2-DH5	0	2397.48	-49.105	-18.91	-30.195	PASS
			2400.00	-49.690	-18.91	-30.780	PASS
			9608.10	-42.851	-18.91	-23.941	PASS
		39	9764.55	-43.255	-19.72	-23.535	PASS
		78	2483.50	-50.340	-19.83	-30.510	PASS
			9920.20	-44.897	-19.83	-25.067	PASS
8DPSK	3-DH5	0	2400.00	-47.630	-19.04	-28.590	PASS
			9608.08	-42.624	-19.04	-23.584	PASS
		39	9764.55	-43.025	-19.5	-23.525	PASS
		78	2483.50	-51.870	-19.82	-32.050	PASS
			9920.20	-44.962	-19.82	-25.142	PASS

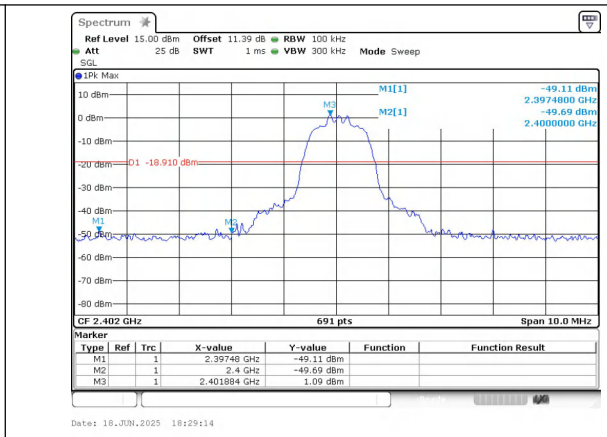
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2396.30	-49.304	-19.31	-29.994	PASS
			2400.00	-51.710	-19.31	-32.400	PASS
			2483.50	-51.340	-19.96	-31.380	PASS
π/4DQPSK	2-DH5		2397.50	-48.997	-21.01	-27.987	PASS
			2400.00	-51.510	-21.01	-30.500	PASS
			2483.50	-51.500	-21.32	-30.180	PASS
8DPSK	3-DH5		2396.35	-48.102	-20.28	-27.822	PASS
			2400.00	-50.910	-20.28	-30.630	PASS
			2483.50	-50.870	-20.13	-30.740	PASS

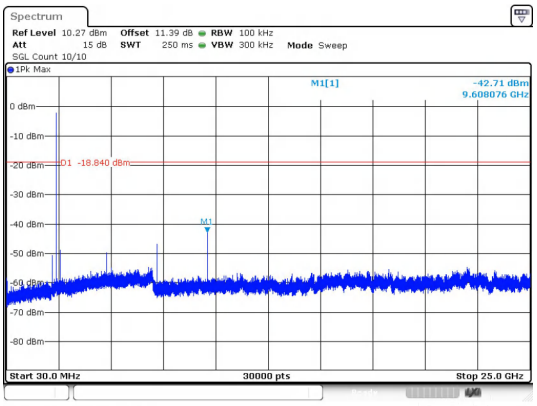
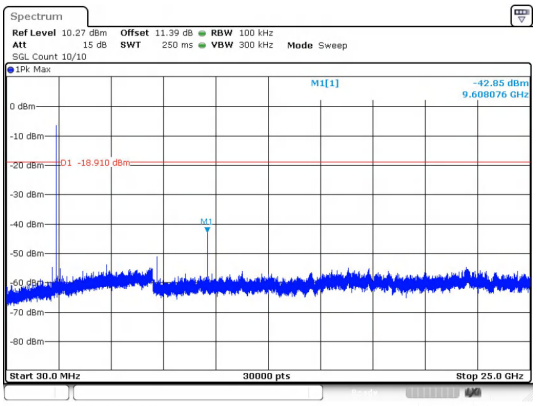
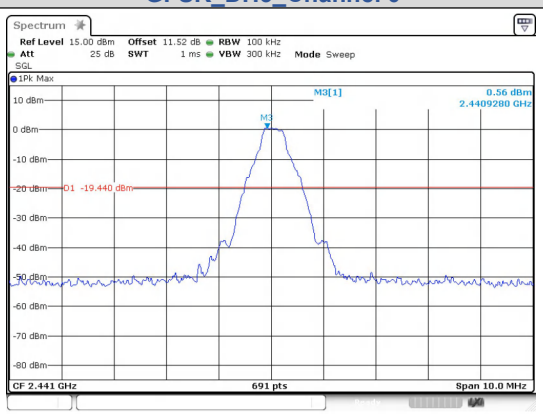
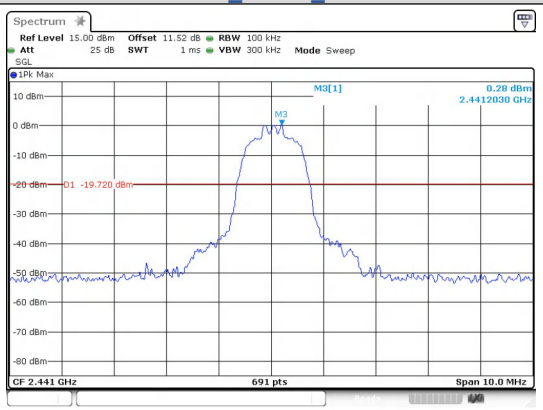
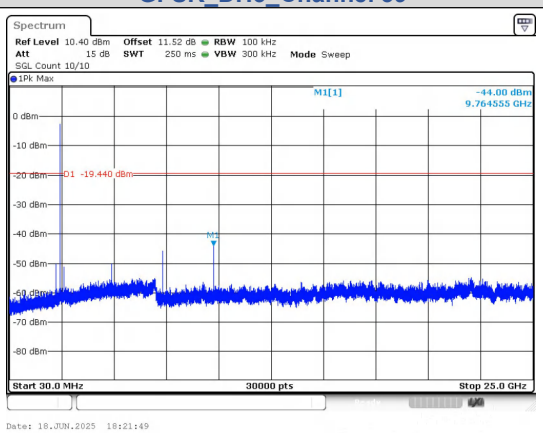
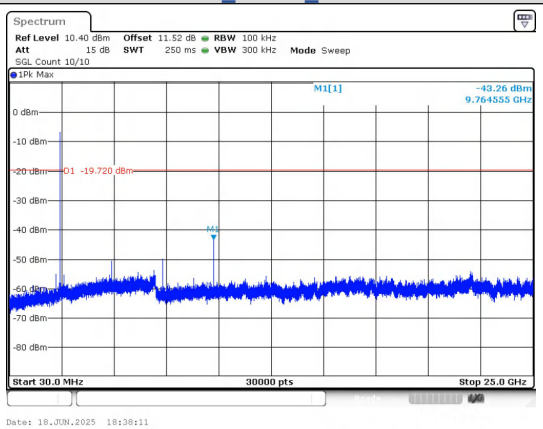
Test Graphs

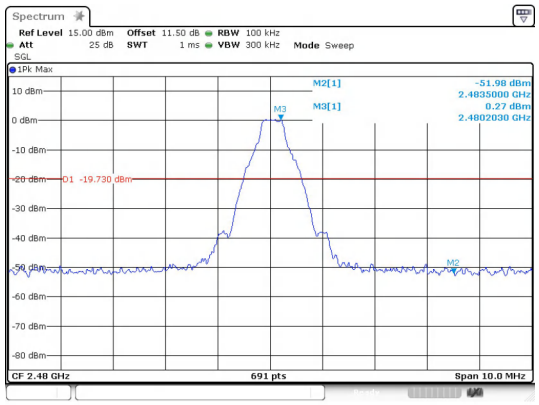


Out Of Band Emission

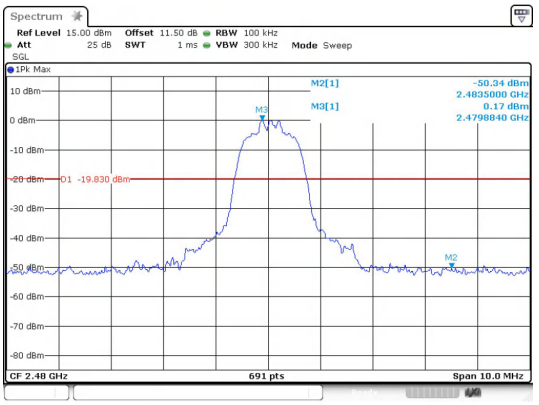


Out Of Band Emission

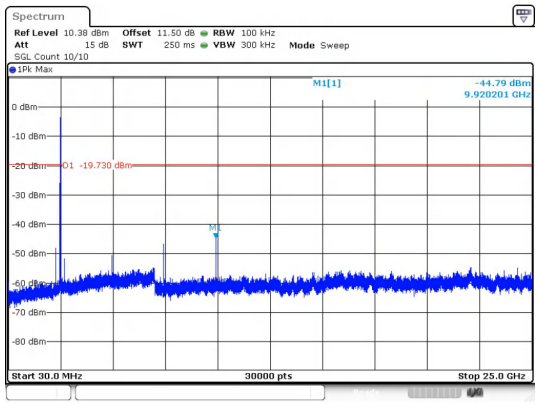
GFSK_DH5_Channel 0	π/4DQPSK_2-DH5_Channel 0
	
30.0 MHz - 25000.0 MHz GFSK_DH5_Channel 0	**30.0 MHz - 25000.0 MHz π/4DQPSK_2-DH5_Channel 0**
	
Out Of Band Emission GFSK_DH5_Channel 39	**Out Of Band Emission π/4DQPSK_2-DH5_Channel 39**
	
30.0 MHz - 25000.0 MHz GFSK_DH5_Channel 39	**30.0 MHz - 25000.0 MHz π/4DQPSK_2-DH5_Channel 39**



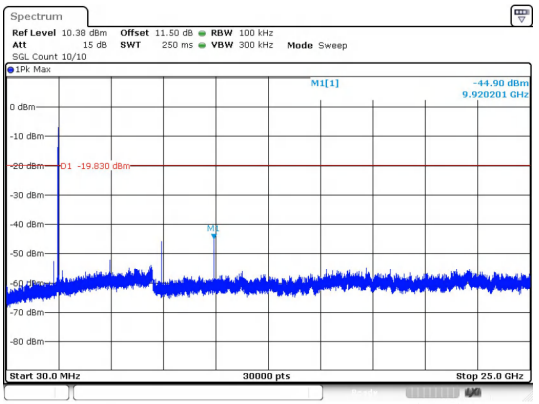
Out Of Band Emission
GFSK_DH5_Channel 78



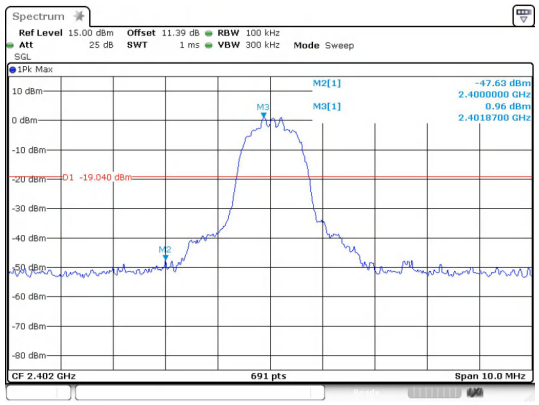
Out Of Band Emission
π/4DQPSK_2-DH5_Channel 78



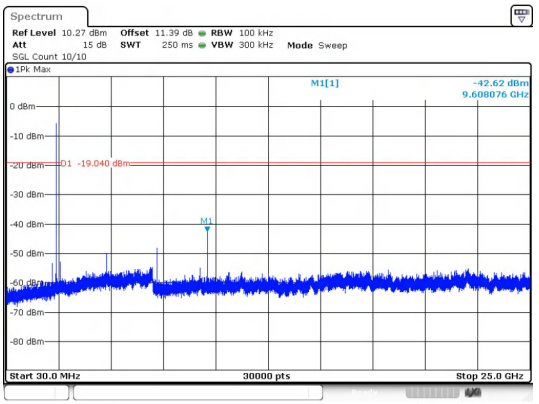
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



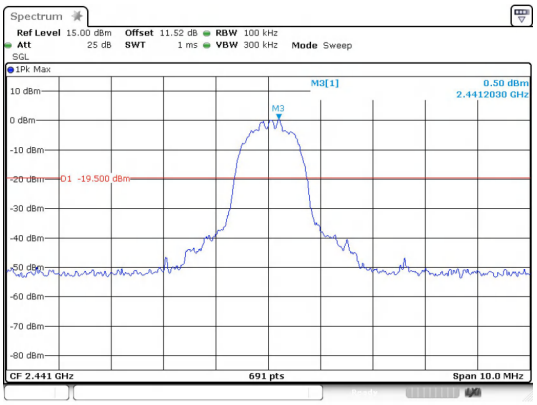
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 78



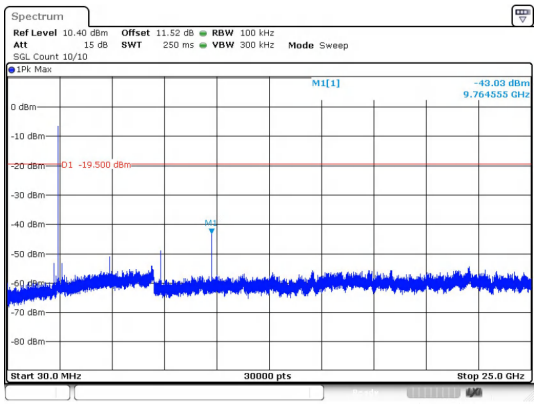
Out Of Band Emission
8DPSK_3-DH5_Channel 0



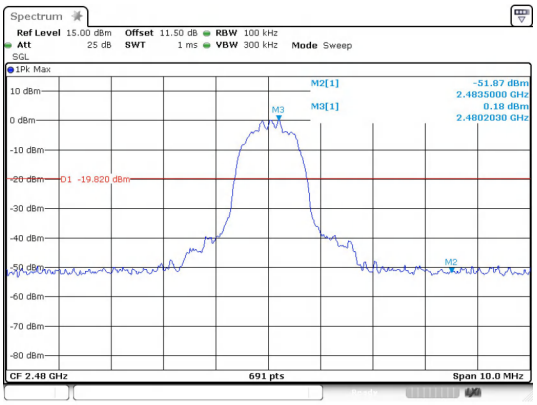
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



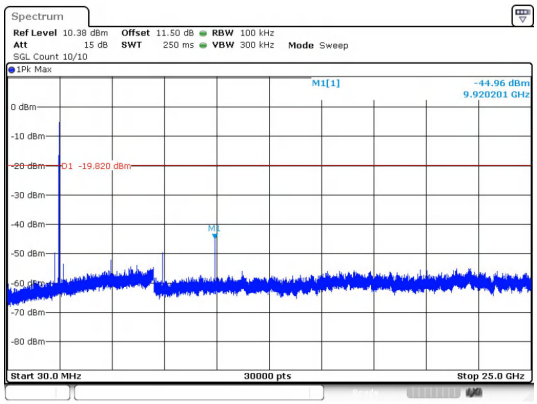
Out Of Band Emission
8DPSK_3-DH5_Channel 39



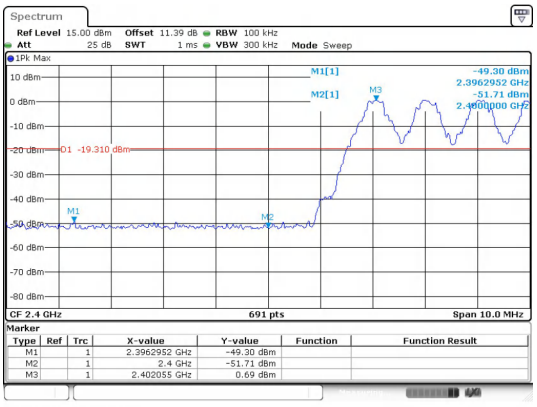
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



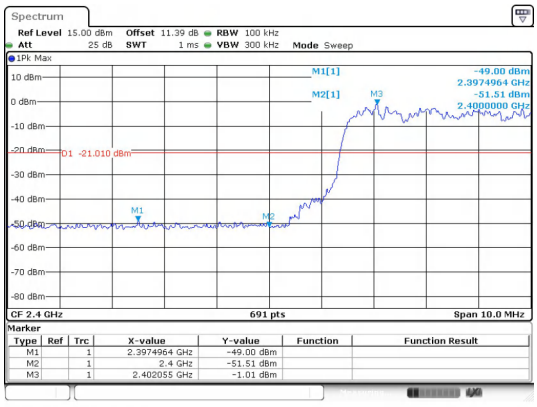
Out Of Band Emission
8DPSK_3-DH5_Channel 78



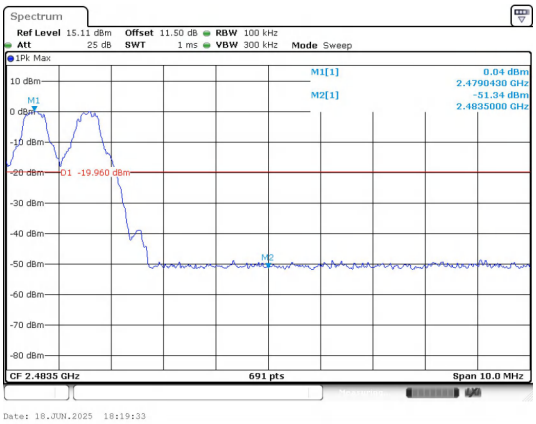
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78



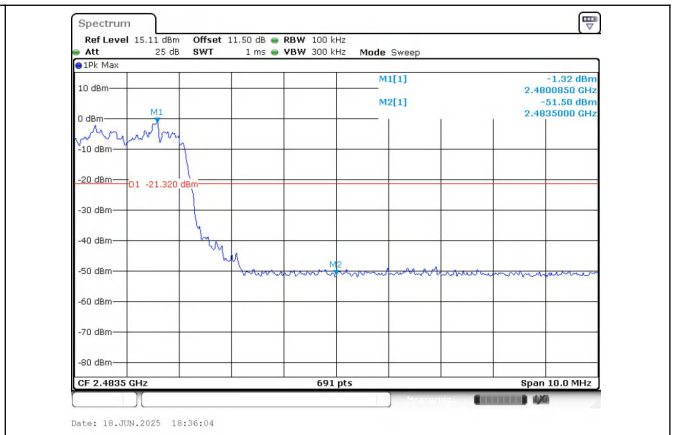
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



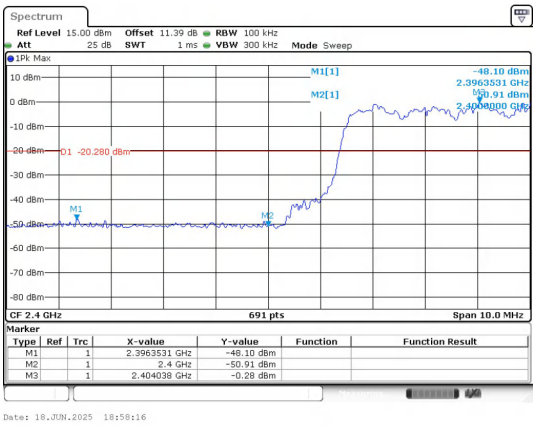
Out Of Band Emission(Left)
π/4DQPSK_2-DH5_Channel Hopping



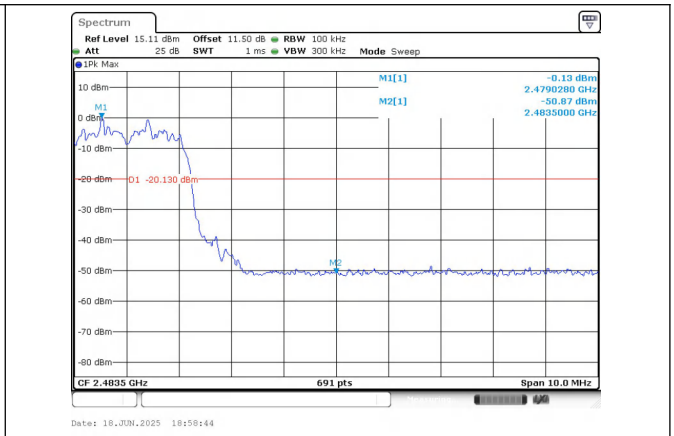
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



Out Of Band Emission(Right)
π/4DQPSK_2-DH5_Channel Hopping



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



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

Right:

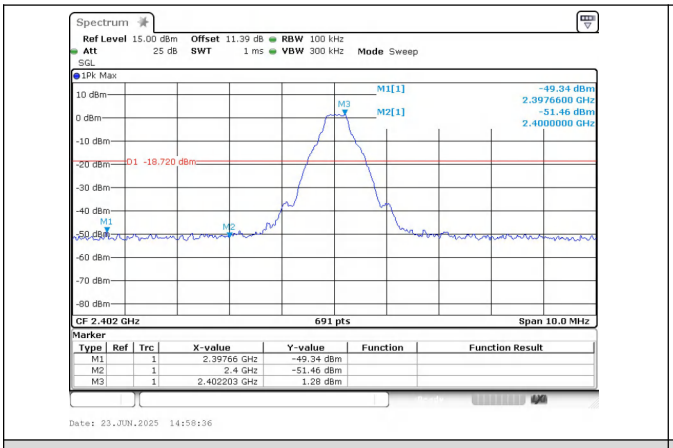
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2397.66	-49.338	-18.72	-30.618	PASS
			2400.00	-51.460	-18.72	-32.740	PASS
			9608.10	-43.419	-18.72	-24.699	PASS
		39	9764.55	-43.428	-18.98	-24.448	PASS
		78	2483.50	-50.370	-18.98	-31.390	PASS
			9920.20	-44.208	-18.98	-25.228	PASS
π/4DQPSK	2-DH5	0	2398.50	-49.697	-18.57	-31.127	PASS
			2400.00	-50.070	-18.57	-31.500	PASS
			9608.10	-42.958	-18.57	-24.388	PASS
		39	9764.55	-42.737	-18.99	-23.747	PASS
		78	2483.50	-50.950	-18.94	-32.010	PASS
			9920.20	-44.074	-18.94	-25.134	PASS
8DPSK	3-DH5	0	2400.00	-49.710	-18.65	-31.060	PASS
			9608.08	-42.736	-18.65	-24.086	PASS
		39	9763.72	-42.672	-19.07	-23.602	PASS
		78	2483.50	-50.360	-19.08	-31.280	PASS
			9920.20	-44.297	-19.08	-25.217	PASS

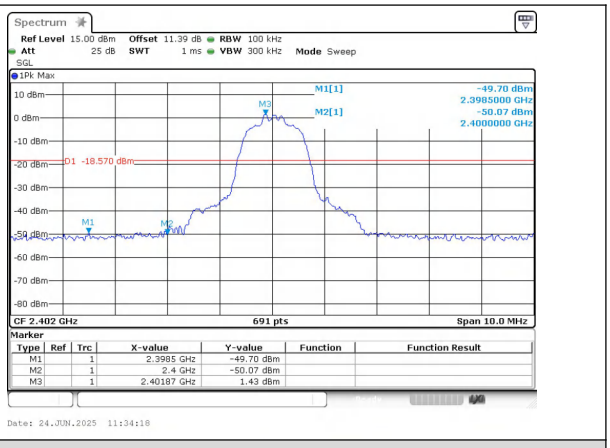
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2396.31	-49.352	-18.79	-30.562	PASS
			2400.00	-49.640	-18.79	-30.850	PASS
			2483.50	-50.300	-19.73	-30.570	PASS
π/4DQPSK	2-DH5		2398.67	-48.694	-18.99	-29.704	PASS
			2400.00	-50.710	-18.99	-31.720	PASS
			2483.50	-50.300	-18.95	-31.350	PASS
8DPSK	3-DH5		2396.69	-49.069	-18.58	-30.489	PASS
			2400.00	-51.010	-18.58	-32.430	PASS
			2483.50	-51.060	-19.59	-31.470	PASS

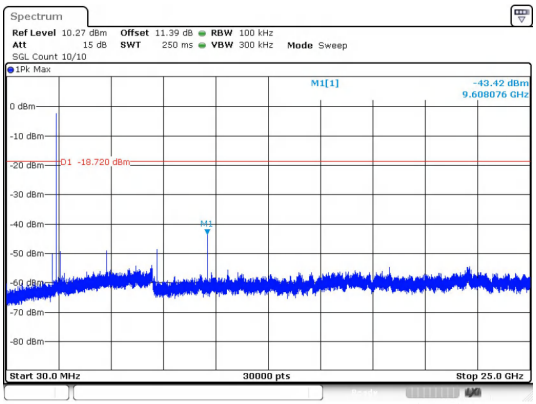
Test Graphs



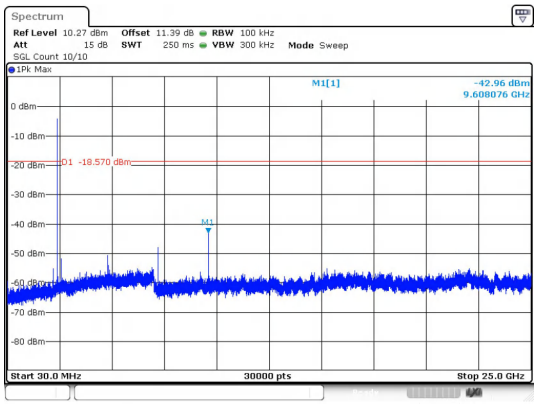
Out Of Band Emission
GFSK_DH5_Channel 0



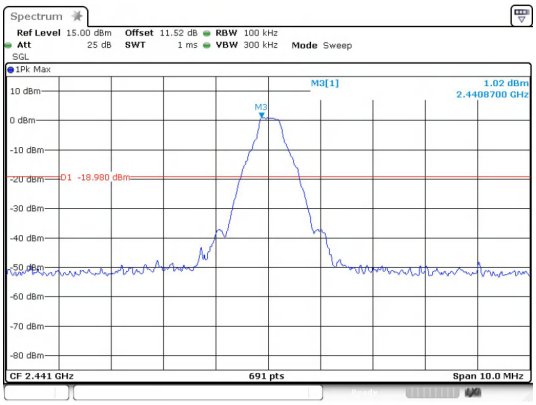
Out Of Band Emission
π/4DQPSK_2-DH5_Channel 0



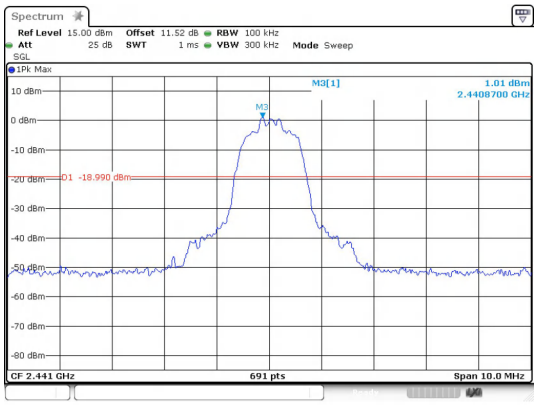
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



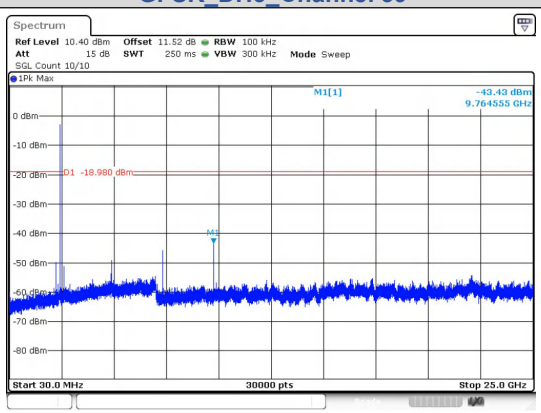
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 0



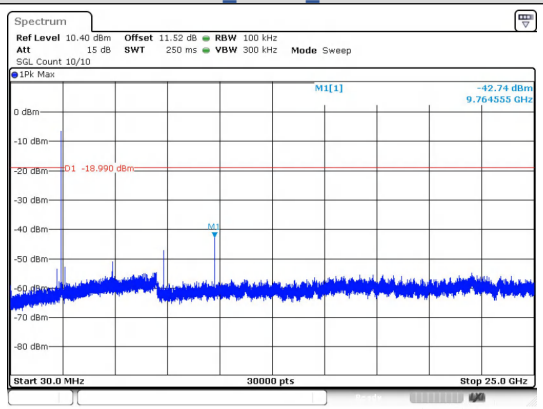
Out Of Band Emission
GFSK_DH5_Channel 39



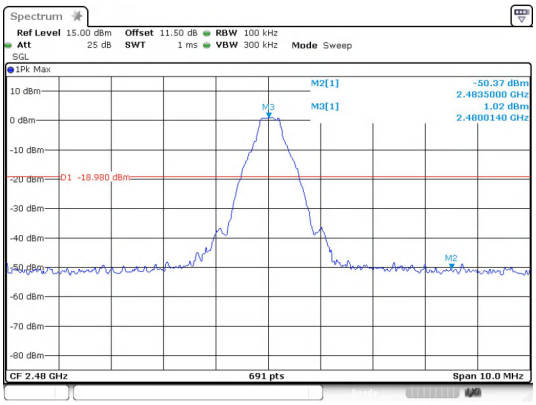
Out Of Band Emission
π/4DQPSK_2-DH5_Channel 39



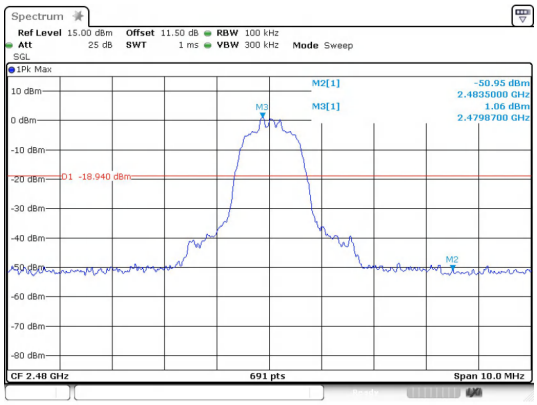
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



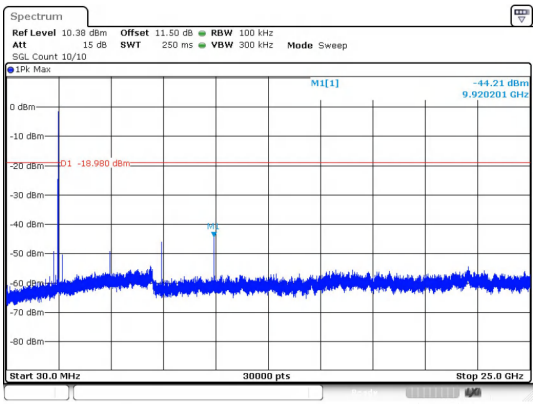
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 39



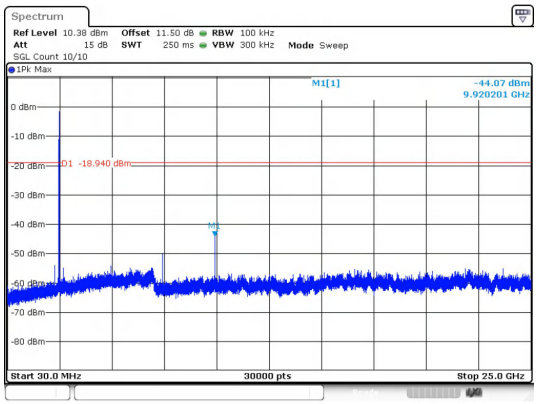
Out Of Band Emission
GFSK_DH5_Channel 78



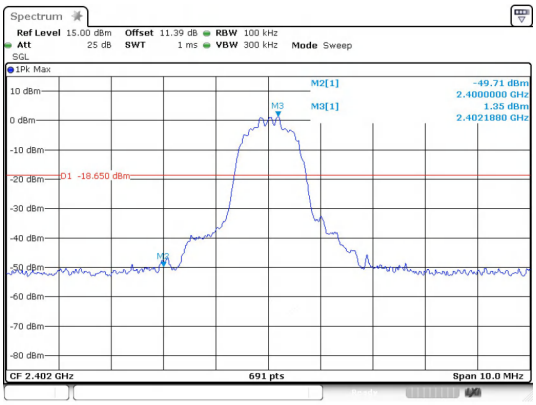
Out Of Band Emission
π/4DQPSK_2-DH5_Channel 78



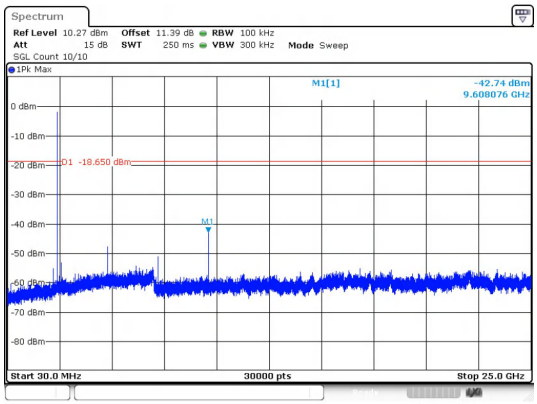
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



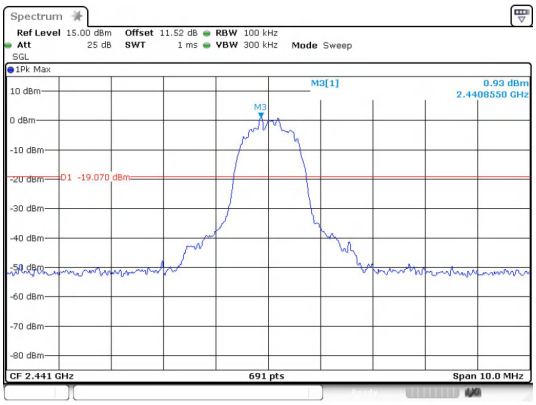
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 78



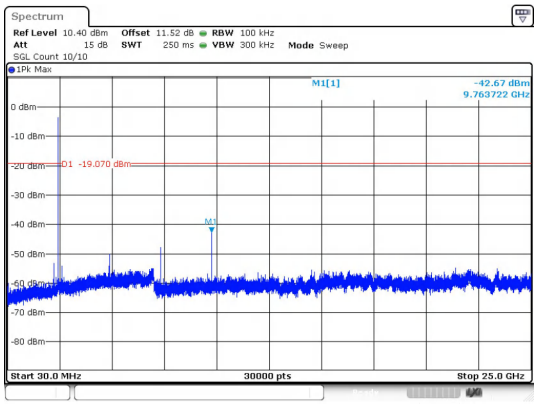
Out Of Band Emission
8DPSK_3-DH5_Channel 0



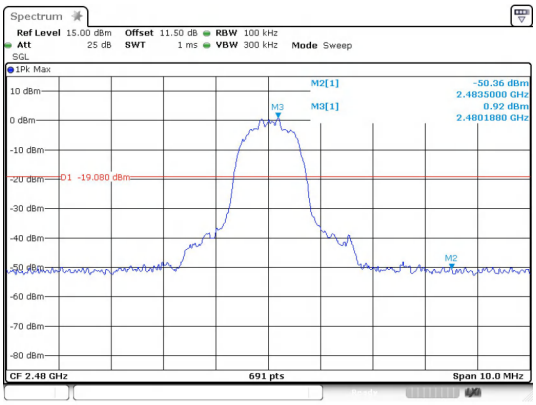
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



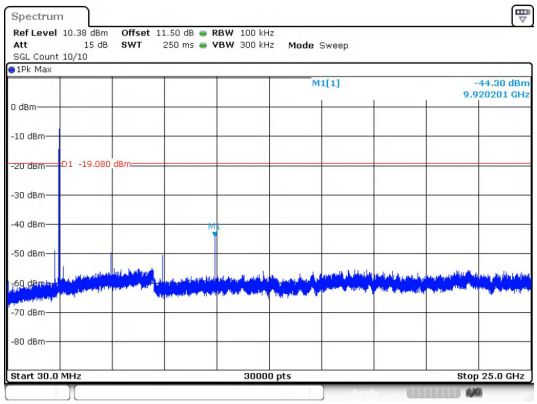
Out Of Band Emission
8DPSK_3-DH5_Channel 39



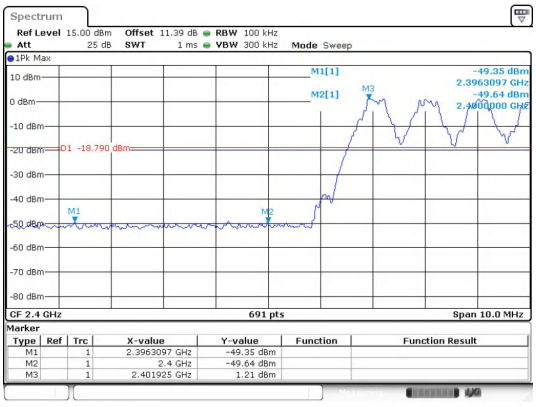
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



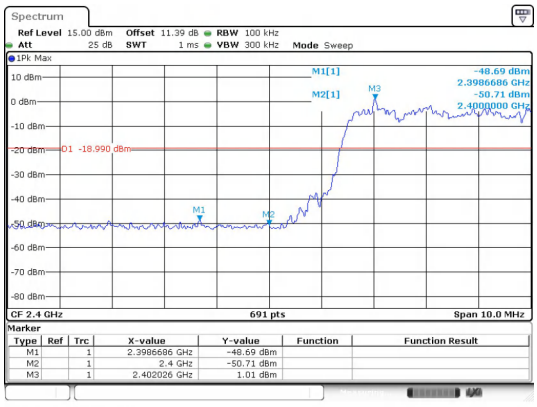
Out Of Band Emission
8DPSK_3-DH5_Channel 78



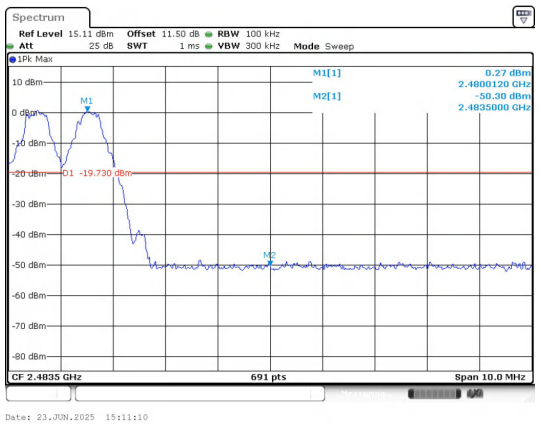
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78



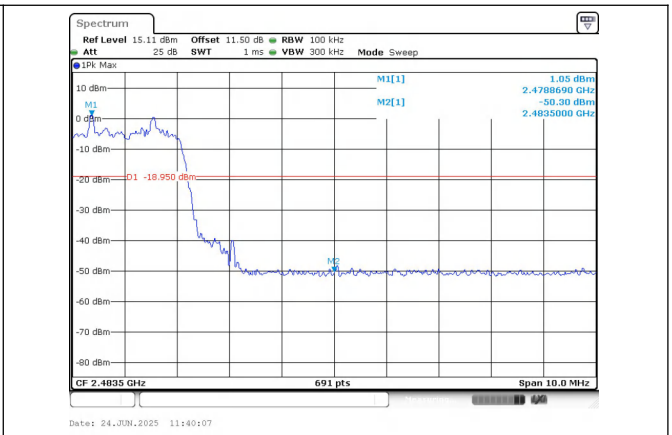
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



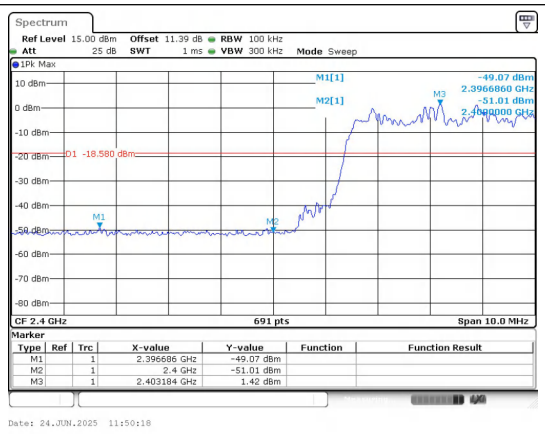
Out Of Band Emission(Left)
π/4DQPSK_2-DH5_Channel Hopping



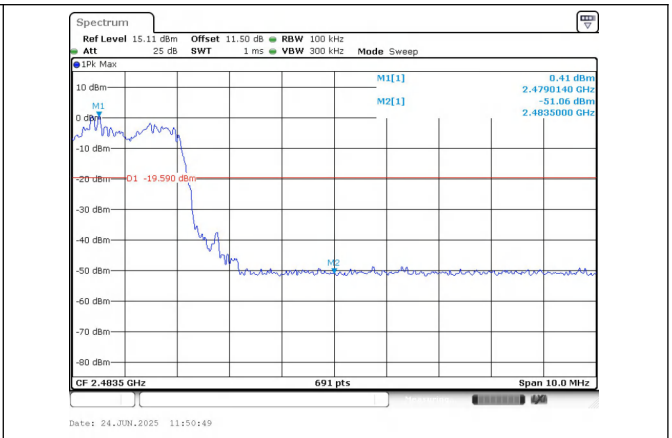
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



Out Of Band Emission(Right)
π/4DQPSK_2-DH5_Channel Hopping



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



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

------End of the report-----