

7.5. Dwell Time

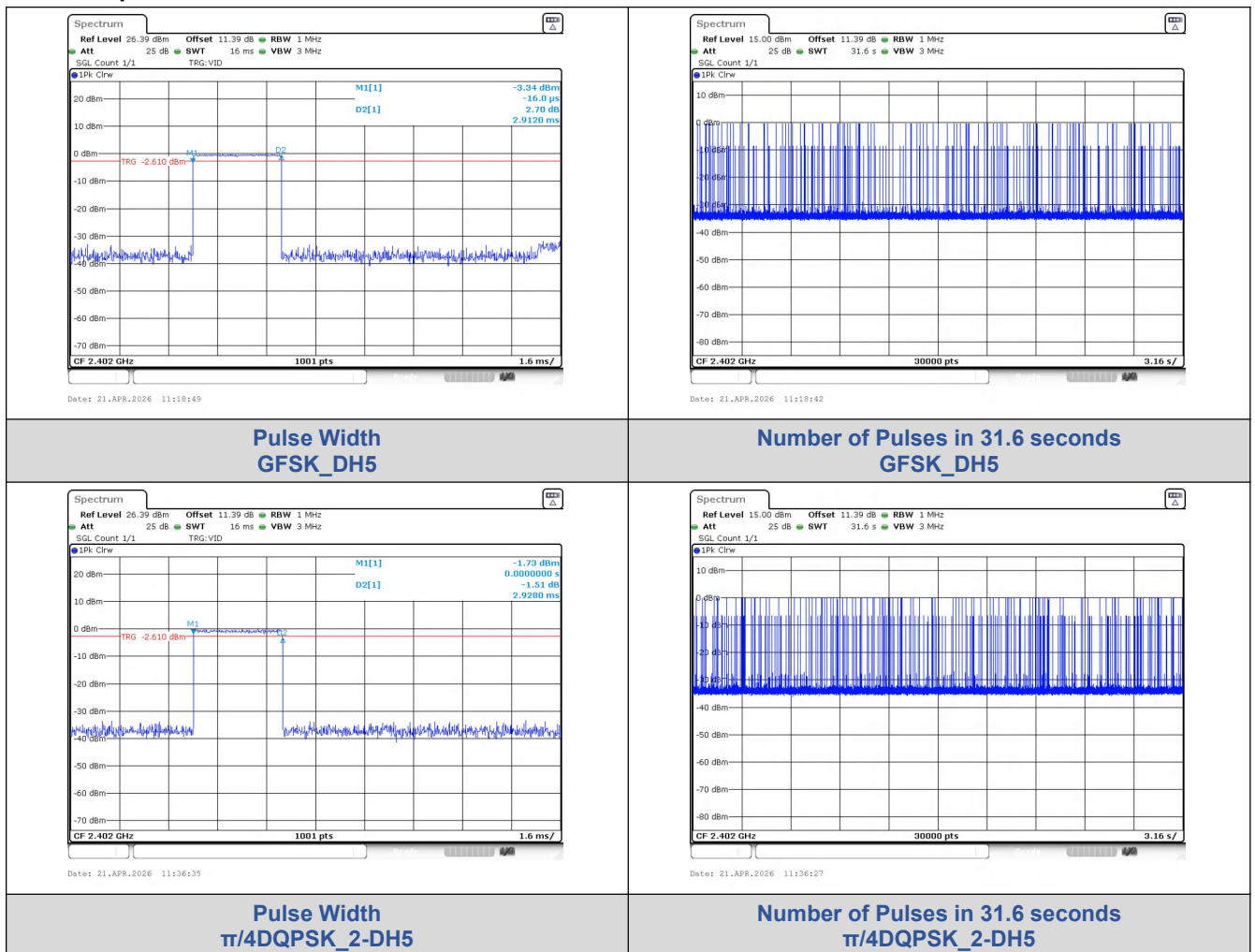
Test Result

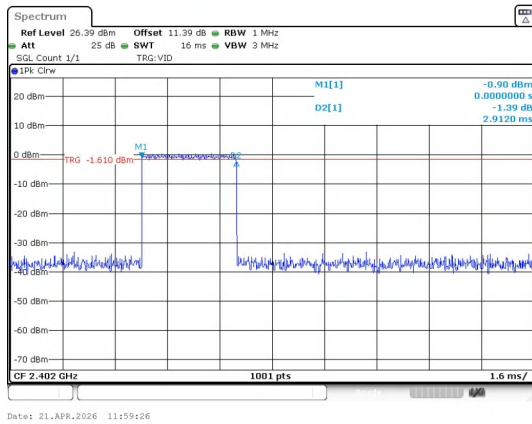
Left:

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.912	102	297.02	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.928	115	336.72		PASS
8DPSK	3-DH5		2.912	116	337.79		PASS

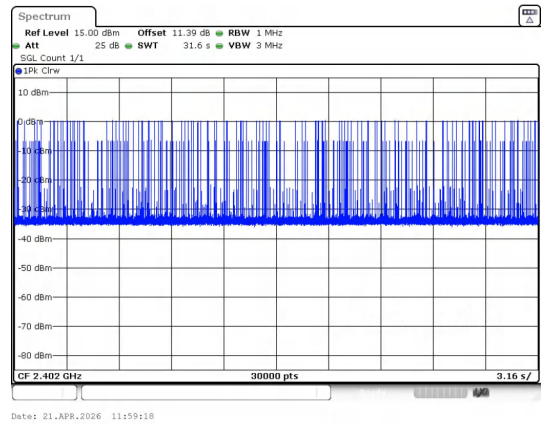
Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds

Test Graphs





**Pulse Width
8DPSK_3-DH5**



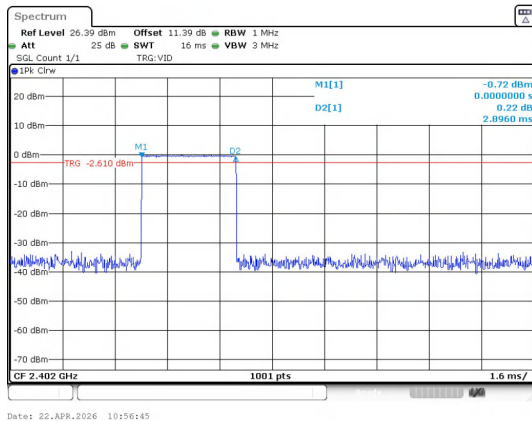
**Number of Pulses in 31.6 seconds
8DPSK_3-DH5**

Right:

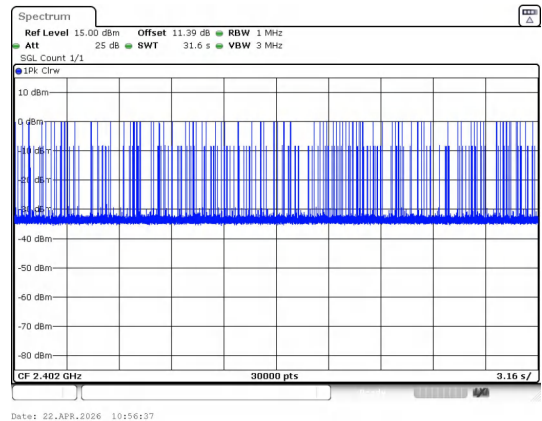
Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.896	105	304.08	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.912	110	320.32		PASS
8DPSK	3-DH5		2.912	119	346.53		PASS

Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds

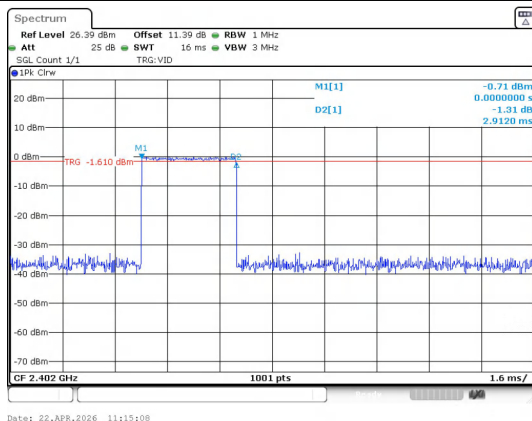
Test Graphs



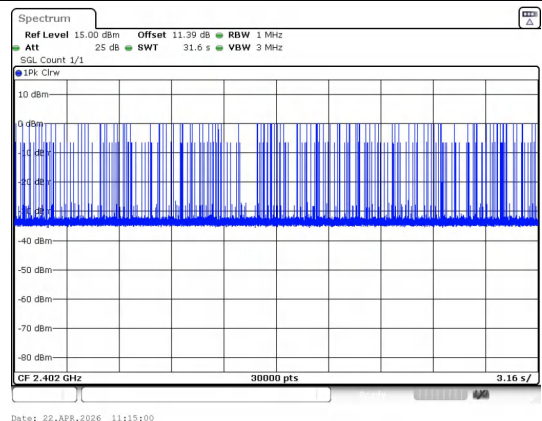
**Pulse Width
GFSK_DH5**



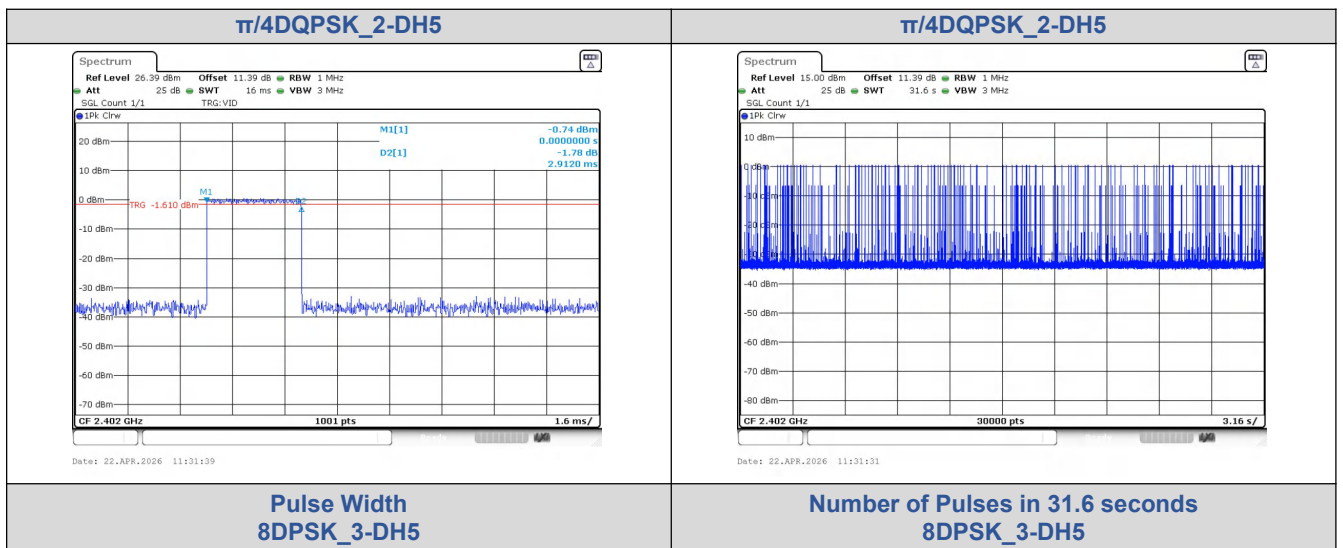
**Number of Pulses in 31.6 seconds
GFSK_DH5**



Pulse Width



Number of Pulses in 31.6 seconds



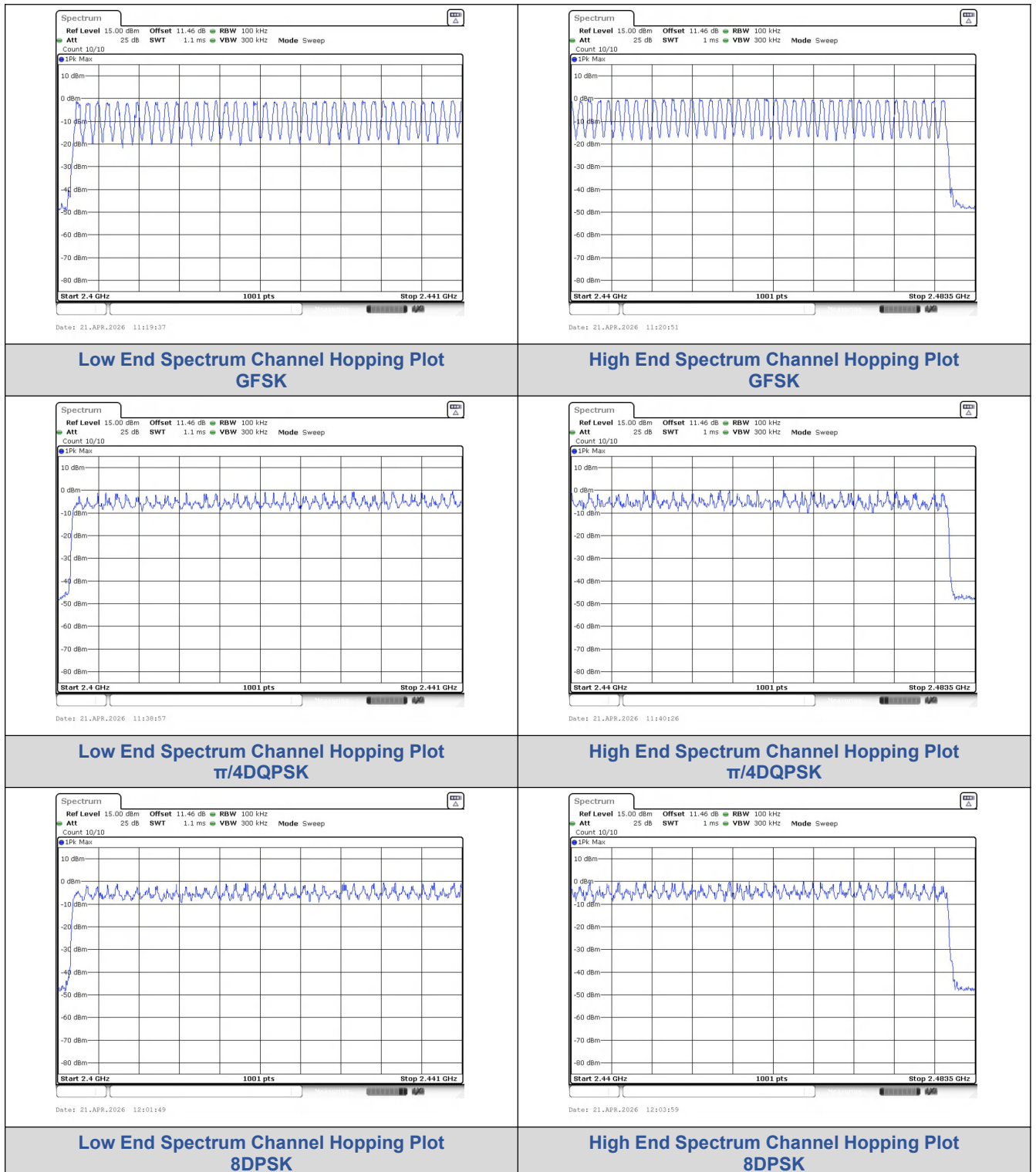
7.6. Number Of Hopping Channel

Test Result

Left:

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

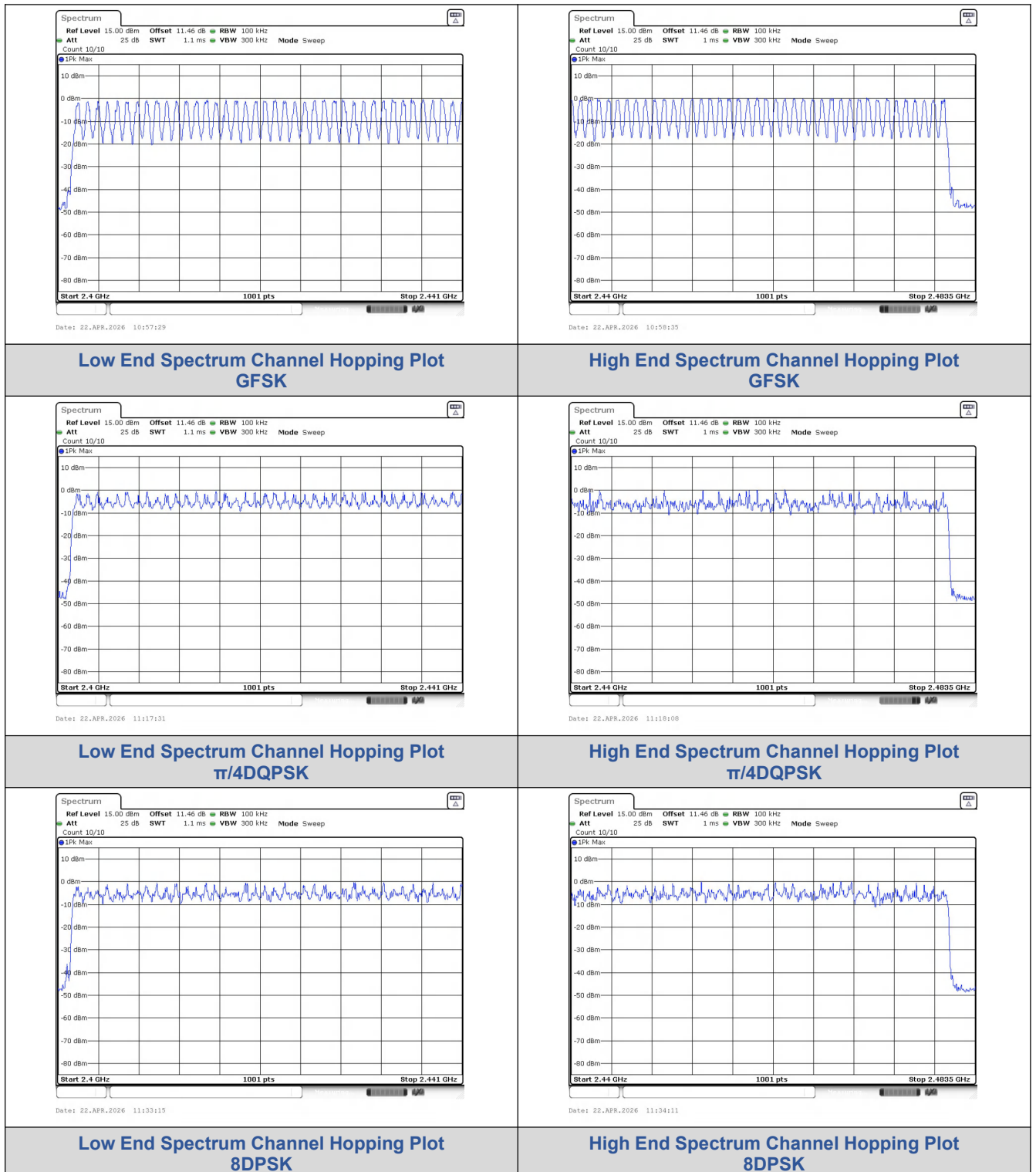
Test Graphs



Right:

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



7.7. 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	2398.73	-45.754	-20.85	-24.904	PASS
			2400.00	-47.170	-20.85	-26.320	PASS
			4804.70	-44.151	-20.85	-23.301	PASS
		39	4882.09	-41.319	-20.03	-21.289	PASS
		78	2483.50	-47.840	-20.16	-27.680	PASS
			4960.33	-41.602	-20.16	-21.442	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-46.330	-20.94	-25.390	PASS
			4803.85	-45.898	-20.94	-24.958	PASS
		39	4881.25	-45.420	-20.2	-25.220	PASS
		78	2483.50	-47.040	-20.31	-26.730	PASS
			4959.49	-44.341	-20.31	-24.031	PASS
8DPSK	3-DH5	0	2400.00	-44.970	-21.04	-23.930	PASS
			4803.85	-43.122	-21.04	-22.082	PASS
		39	4882.09	-44.996	-20.26	-24.736	PASS
		78	2483.50	-47.460	-20.23	-27.230	PASS
			4960.33	-44.155	-20.23	-23.925	PASS

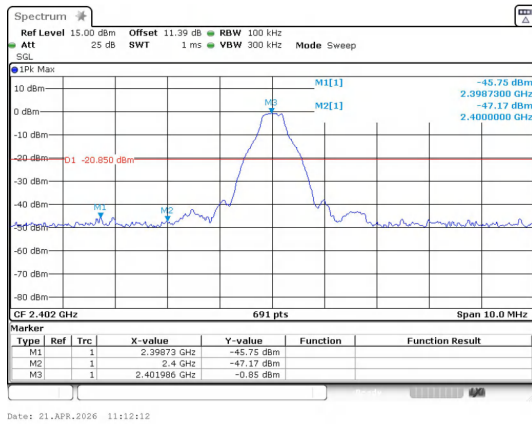
Note: input compensation coefficient (dB)= Cable Loss (dB)

Hopping

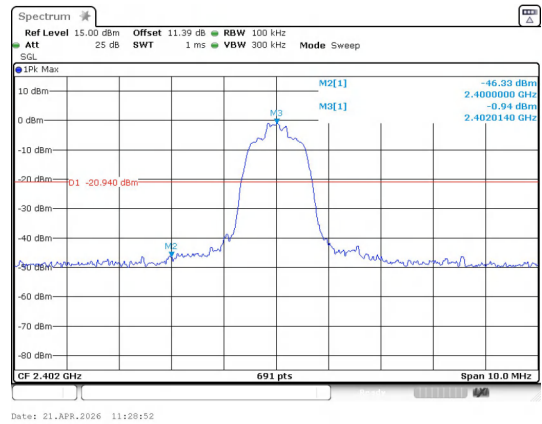
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2397.29	-46.309	-20.87	-25.439	PASS
			2400.00	-47.150	-20.87	-26.280	PASS
			2483.50	-47.430	-20.1	-27.330	PASS
π/4DQPSK	2-DH5		2396.73	-46.455	-21.08	-25.375	PASS
			2400.00	-47.130	-21.08	-26.050	PASS
			2483.50	-47.070	-20.28	-26.790	PASS
8DPSK	3-DH5		2400.00	-44.320	-20.78	-23.540	PASS
			2483.50	-46.180	-20.1	-26.080	PASS

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

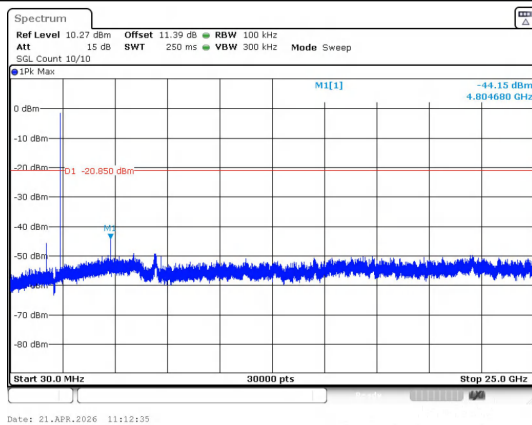
Test Graphs



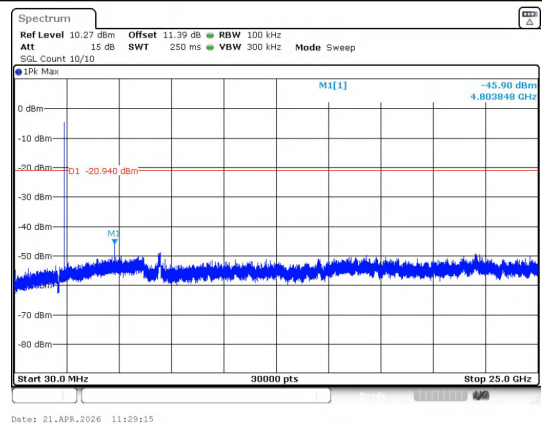
**Out Of Band Emission
GFSK_DH5_Channel 0**



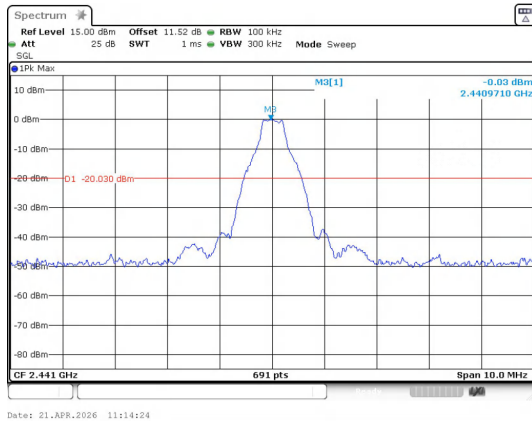
**Out Of Band Emission
π/4DQPSK_2-DH5_Channel 0**



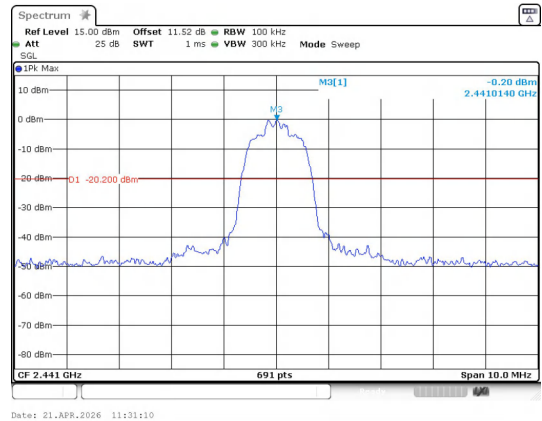
**30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0**



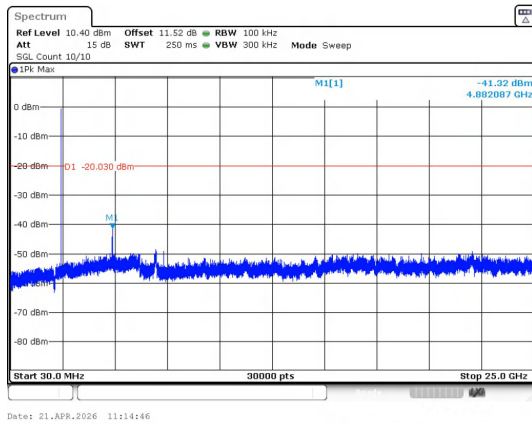
**30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 0**



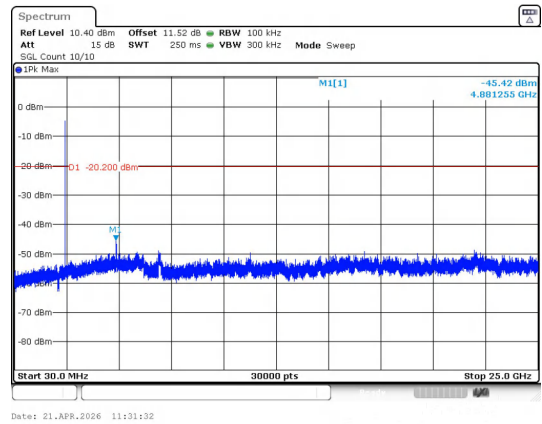
**Out Of Band Emission
GFSK_DH5_Channel 39**



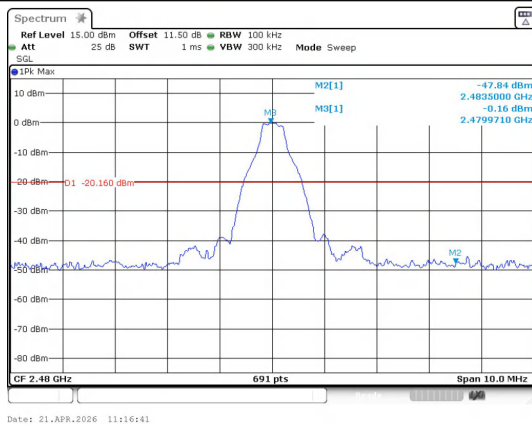
**Out Of Band Emission
π/4DQPSK_2-DH5_Channel 39**



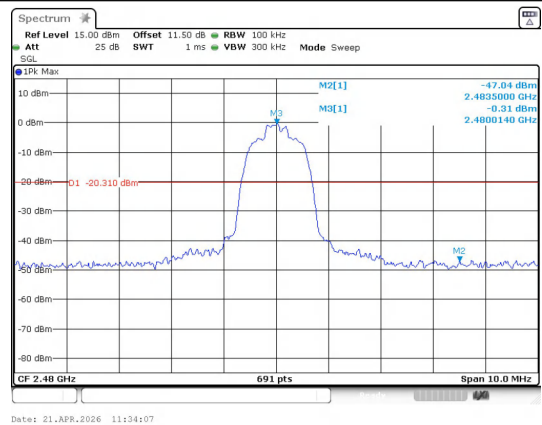
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



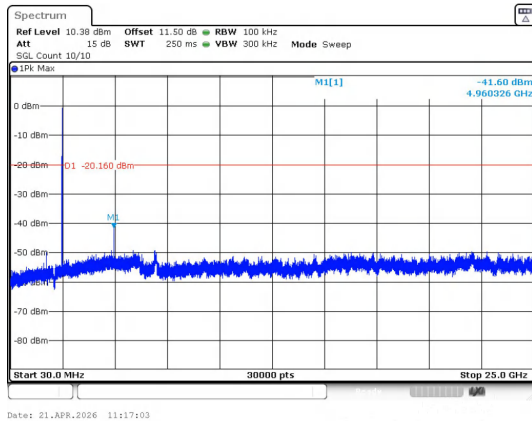
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



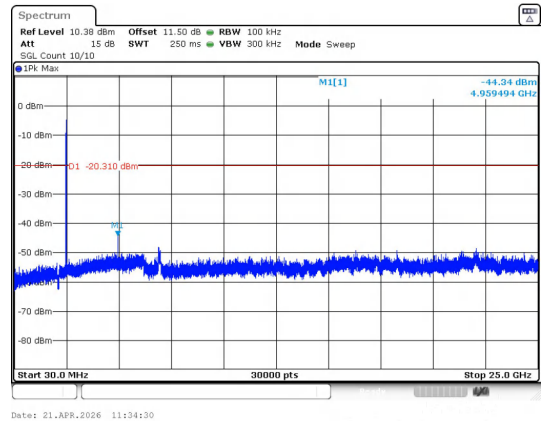
Out Of Band Emission
GFSK_DH5_Channel 78



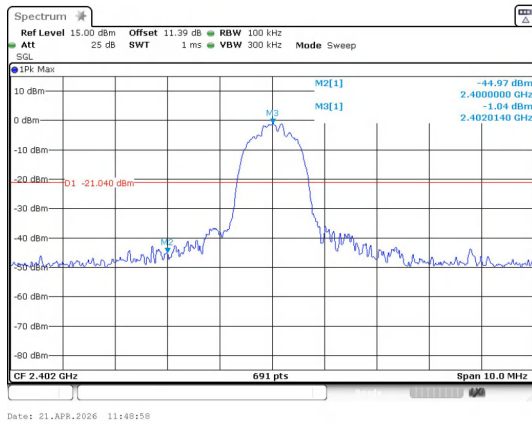
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



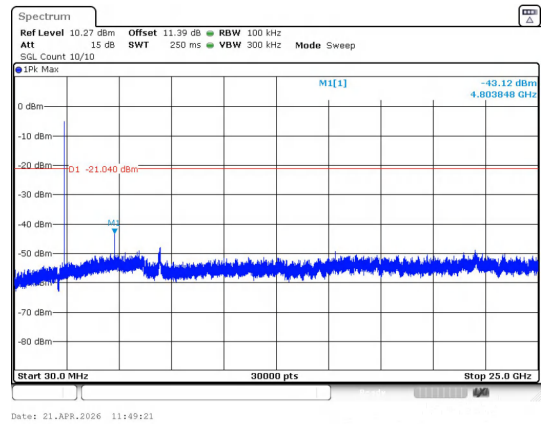
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



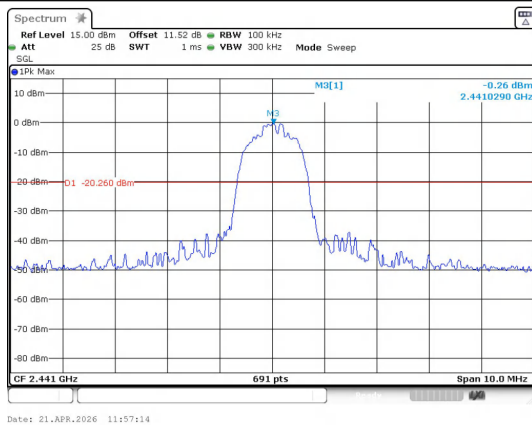
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



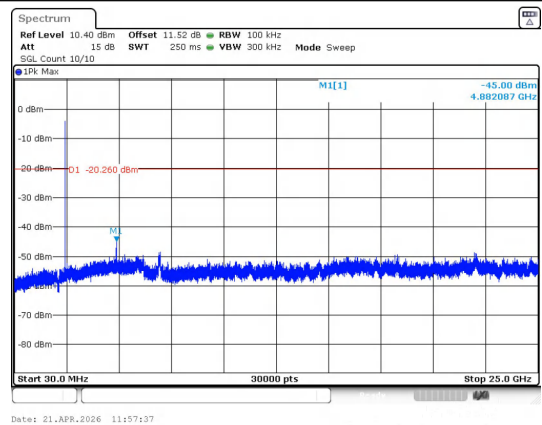
**Out Of Band Emission
8DPSK_3-DH5_Channel 0**



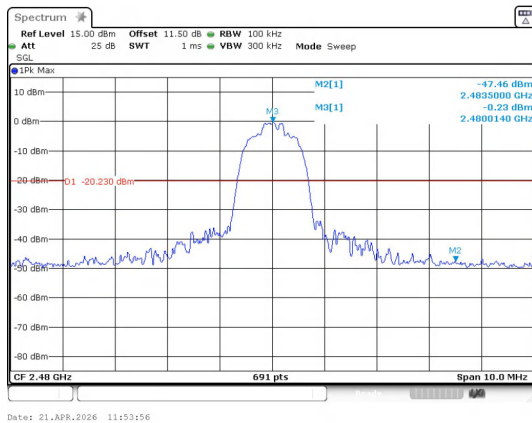
**30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0**



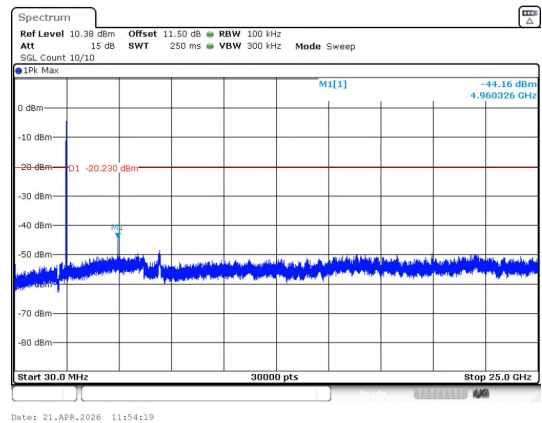
**Out Of Band Emission
8DPSK_3-DH5_Channel 39**



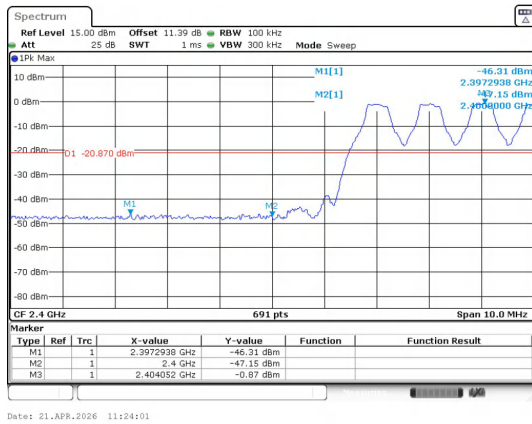
**30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39**



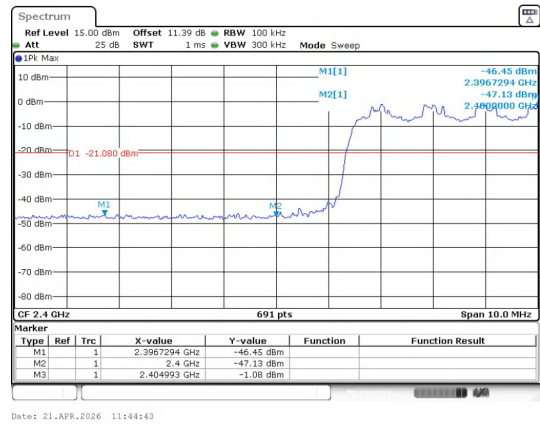
**Out Of Band Emission
8DPSK_3-DH5_Channel 78**



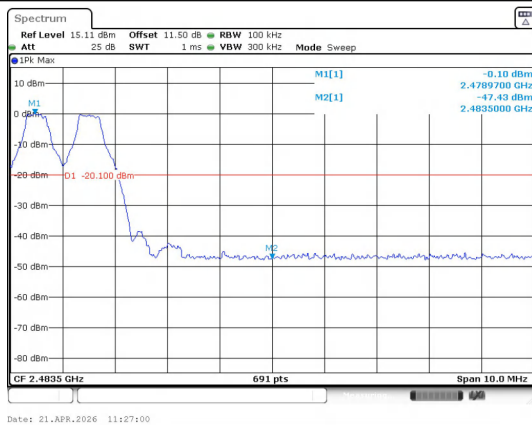
**30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78**



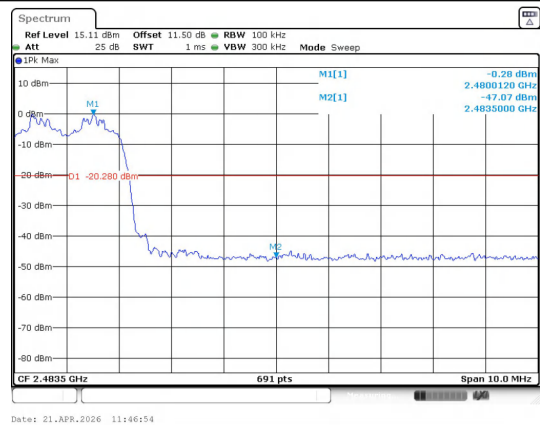
**Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping**



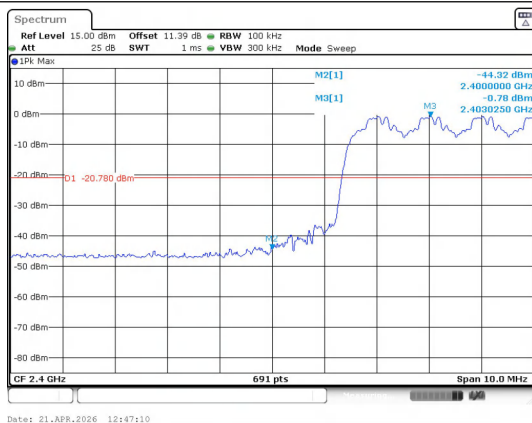
**Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping**



**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**

**Right:
Non-Hopping**

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2398.99	-45.852	-20.64	-25.212	PASS
			2400.00	-48.360	-20.64	-27.720	PASS
			4803.80	-44.691	-20.64	-24.050	PASS

		39	4882.09	-42.520	-19.86	-22.660	PASS
		78	2483.50	-47.580	-19.84	-27.740	PASS
			4959.49	-41.024	-19.84	-21.184	PASS
		0	2398.21	-46.033	-20.71	-25.323	PASS
			2400.00	-46.610	-20.71	-25.900	PASS
			4803.80	-47.995	-20.71	-27.285	PASS
$\pi/4$ DQPSK	2-DH5	39	4881.25	-44.218	-19.9	-24.318	PASS
			2483.50	-49.080	-19.96	-29.120	PASS
			4960.33	-45.422	-19.96	-25.462	PASS
		78	2400.00	-44.470	-20.67	-23.800	PASS
			4803.85	-42.102	-20.67	-21.432	PASS
			2483.50	-46.820	-19.94	-26.880	PASS
8DPSK	3-DH5	0	2400.00	-44.470	-20.67	-23.800	PASS
			4803.85	-42.102	-20.67	-21.432	PASS
			2483.50	-46.820	-19.94	-26.880	PASS
		39	4881.25	-46.326	-19.82	-26.506	PASS
			2483.50	-46.820	-19.94	-26.880	PASS
			4960.33	-43.976	-19.94	-24.036	PASS

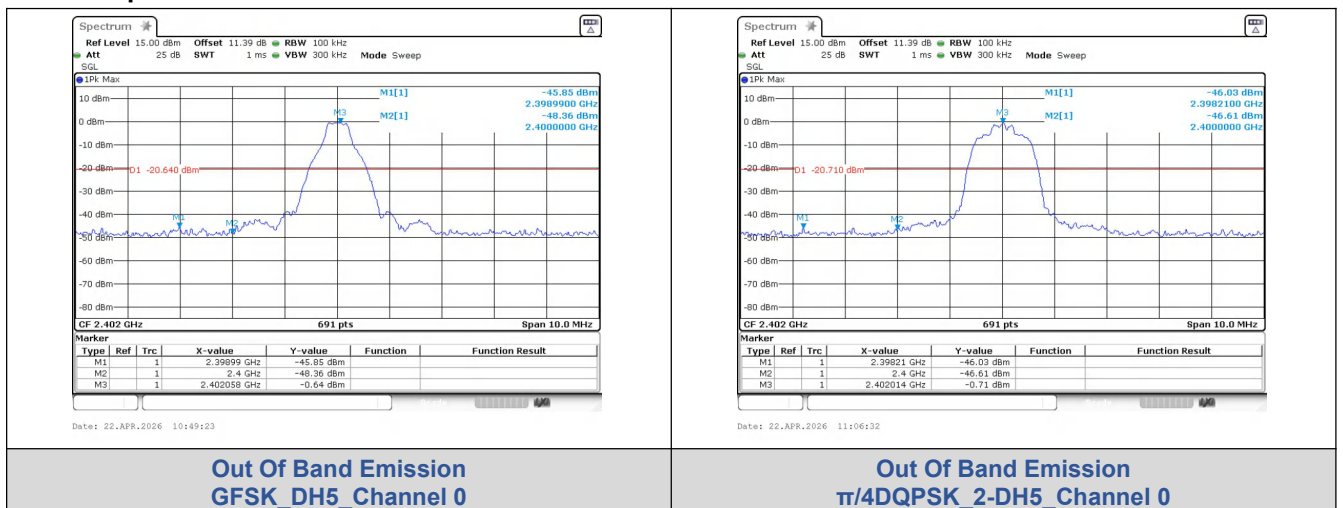
Note: input compensation coefficient (dB)= Cable Loss (dB)

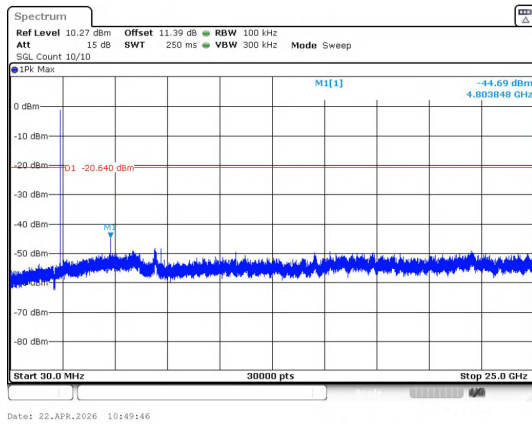
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2397.34	-45.439	-20.62	-24.819	PASS
			2400.00	-46.580	-20.62	-25.960	PASS
			2483.50	-46.520	-19.85	-26.670	PASS
$\pi/4$ DQPSK	2-DH5		2397.70	-45.470	-20.87	-24.600	PASS
			2400.00	-46.610	-20.87	-25.740	PASS
			2483.50	-47.400	-20.07	-27.330	PASS
8DPSK	3-DH5		2396.56	-45.620	-20.77	-24.850	PASS
			2400.00	-46.940	-20.77	-26.170	PASS
			2483.50	-46.270	-20.55	-25.720	PASS

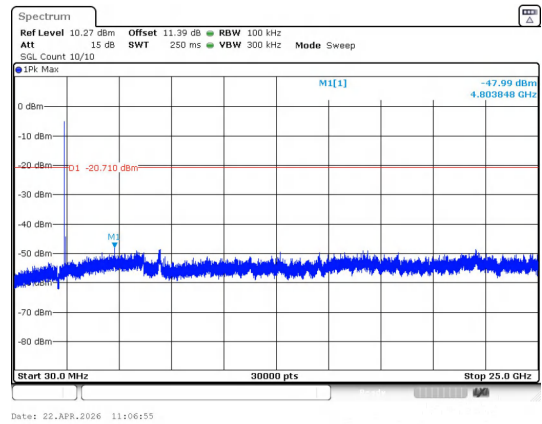
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

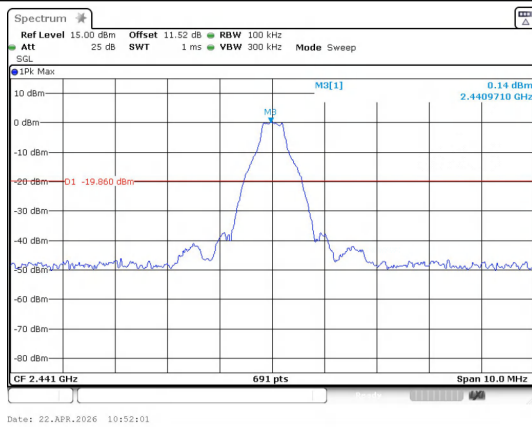




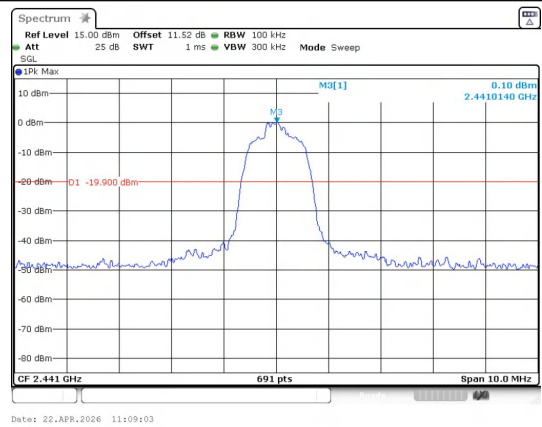
**30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0**



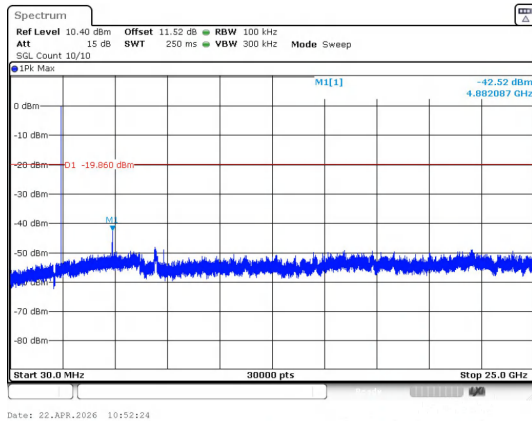
**30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0**



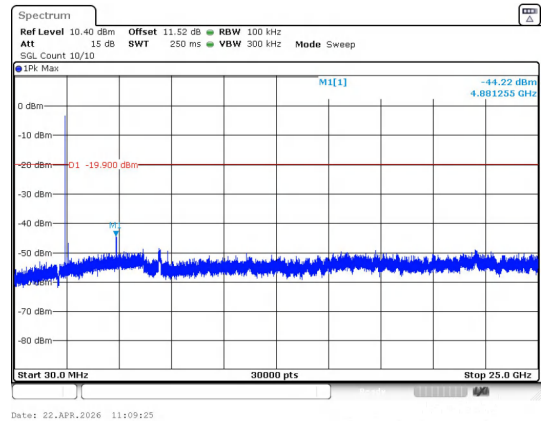
**Out Of Band Emission
GFSK_DH5_Channel 39**



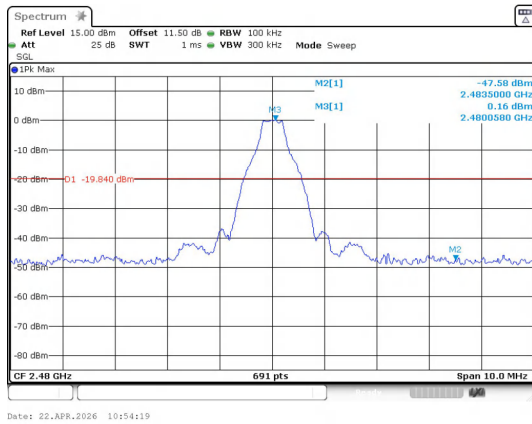
**Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39**



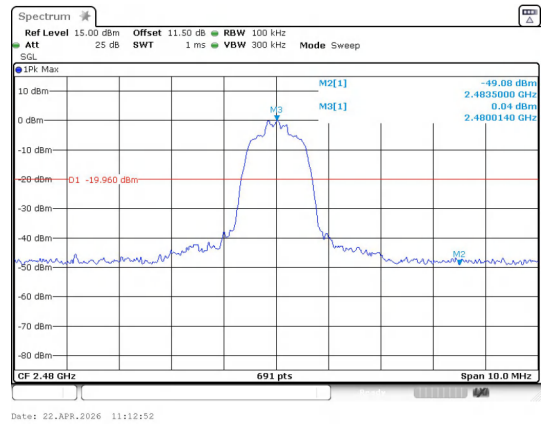
**30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39**



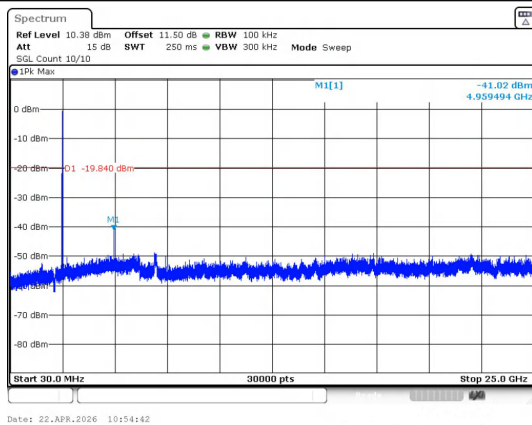
**30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39**



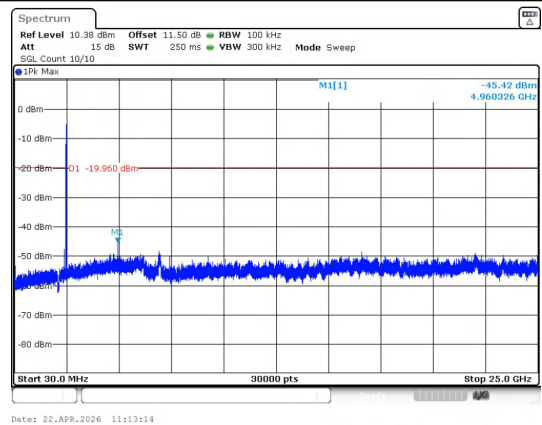
**Out Of Band Emission
GFSK_DH5_Channel 78**



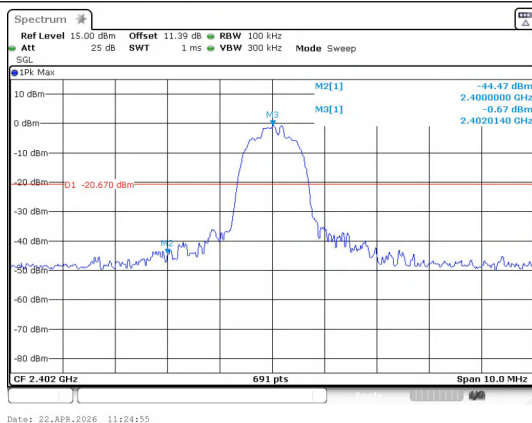
**Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78**



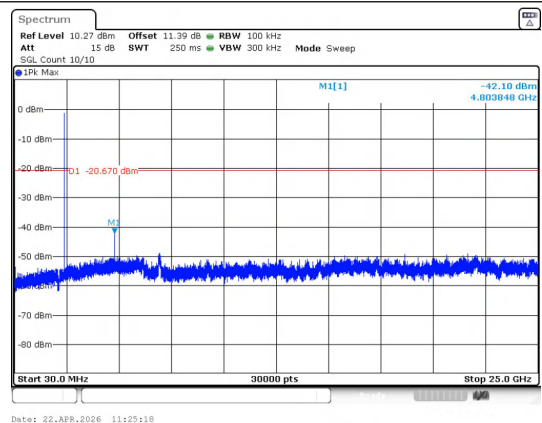
**30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78**



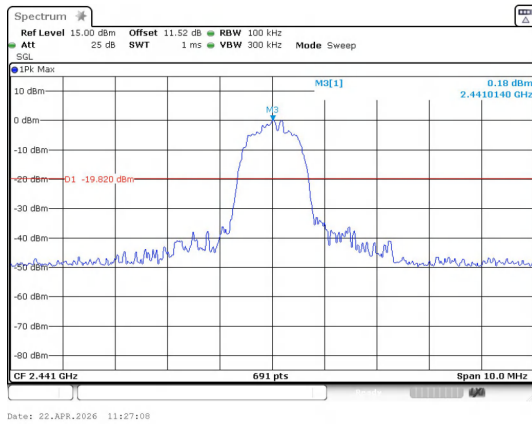
**30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78**



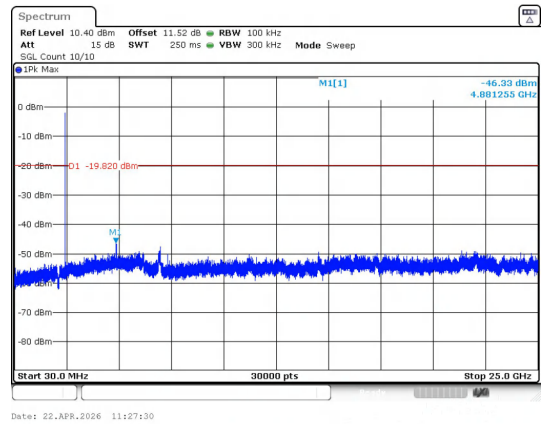
**Out Of Band Emission
8DPSK_3-DH5_Channel 0**



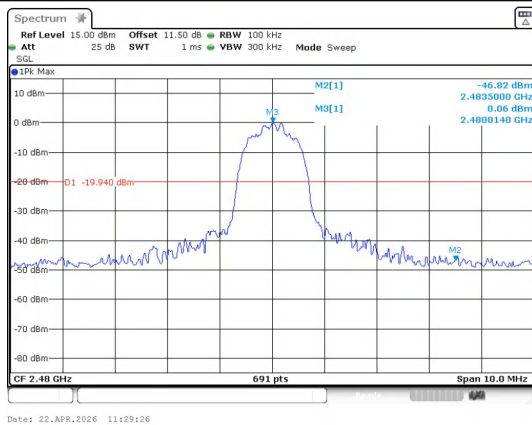
**30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0**



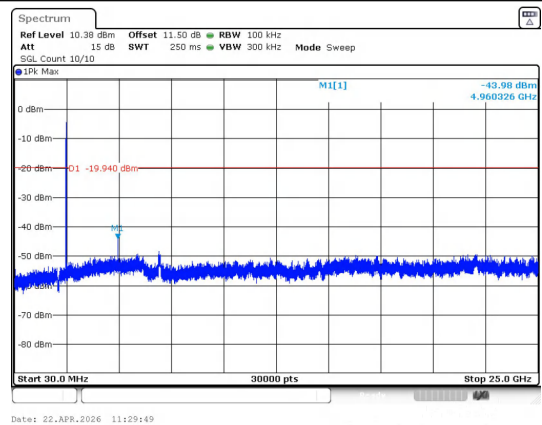
**Out Of Band Emission
8DPSK_3-DH5_Channel 39**



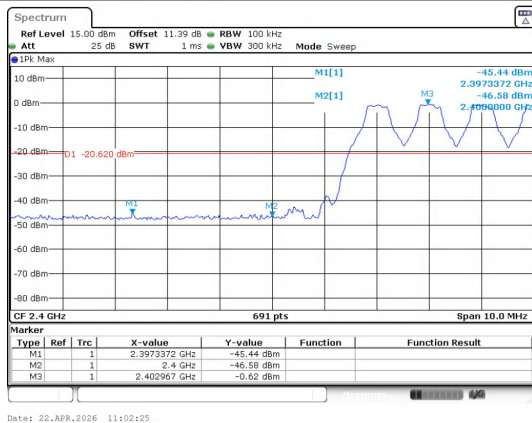
**30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39**



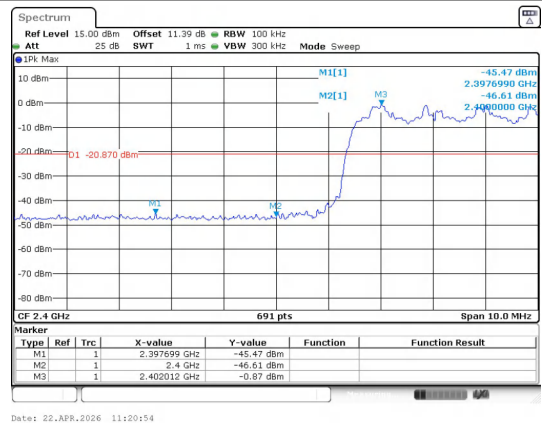
**Out Of Band Emission
8DPSK_3-DH5_Channel 78**



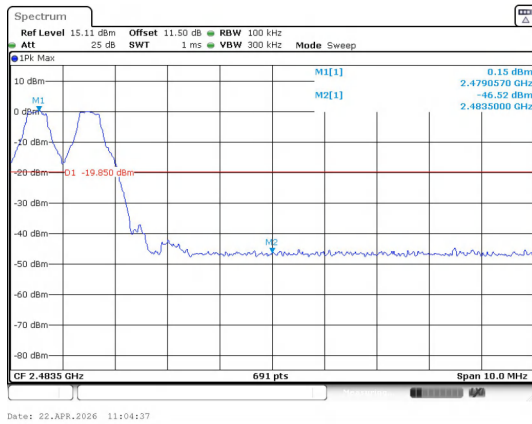
**30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78**



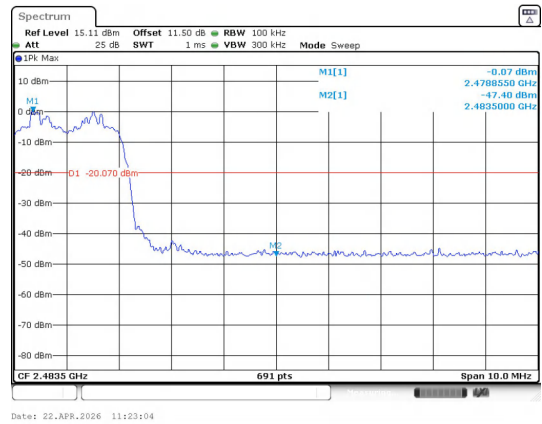
**Out Of Band Emission (Left)
GFSK_DH5_Channel Hopping**



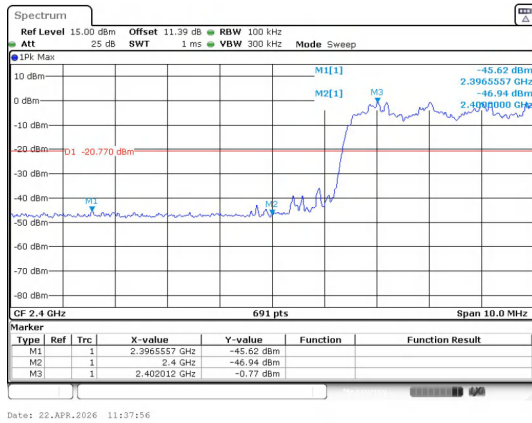
**Out Of Band Emission (Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping**



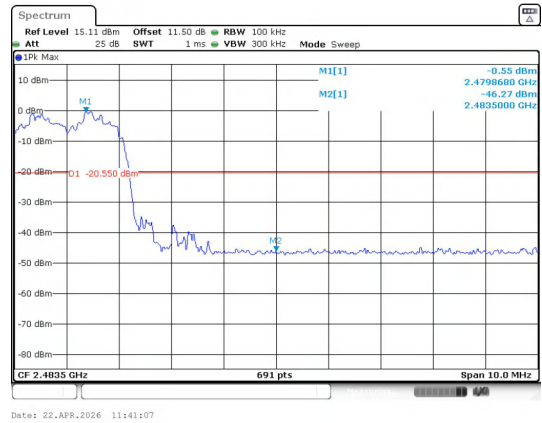
**Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping**



**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**

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