

RF Conducted Test -

appendix III Bluetooth_(Class Bluetooth)_Test data.

E.U.T:	Turntable Player
Model Number:	HP-H2601
Sample ID	33000279340
Sample(s) Status:	Engineer sample
Date of Receipt:	2026.07.09
Date of Test:	2026.07.09 ~ 2026.07.10
FCC ID:	2BFHV-HP-2601
Report No.	2026080501021467-00
Tester	Hugh Zhang

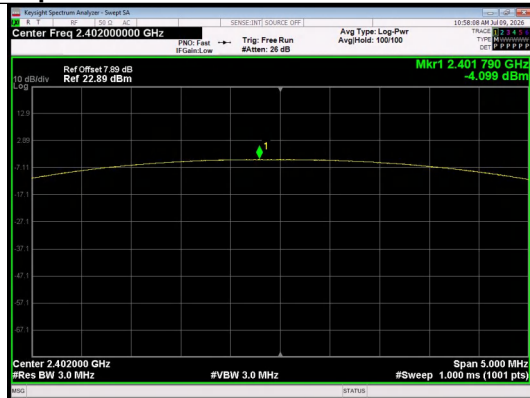
A.1 CONDUCTED OUTPUT POWER

Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit	Result
GFSK	DH1	0	-4.10	0.39	None	0.125w	PASS
		39	-5.18	0.30	None		PASS
		78	-5.78	0.26	None		PASS
$\pi/4$ DQPSK	2-DH1	0	-1.85	0.65	None		PASS
		39	-2.96	0.51	None		PASS
		78	-3.54	0.44	None		PASS
8DPSK	3-DH1	0	-0.91	0.81	None		PASS
		39	-2.15	0.61	None		PASS
		78	-2.68	0.54	None		PASS

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

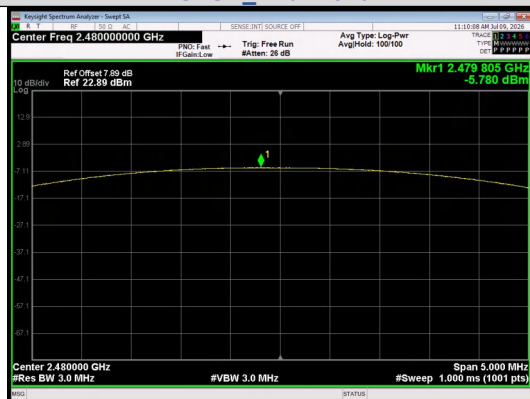
Test Graphs



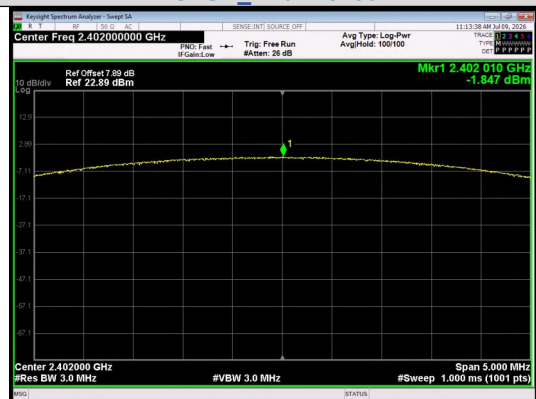
Peak Output Power
GFSK_Channel 0



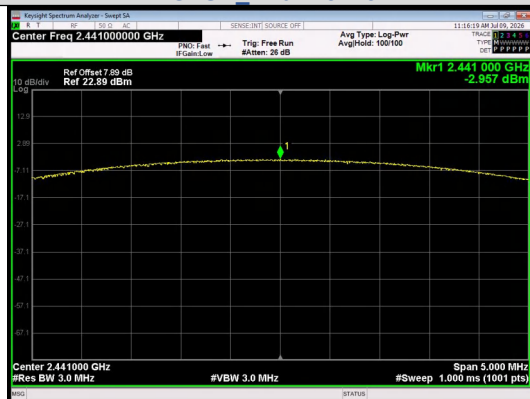
Peak Output Power
GFSK_Channel 39



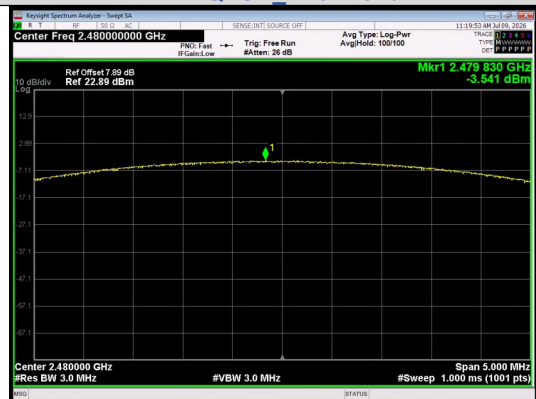
Peak Output Power
GFSK_Channel 78



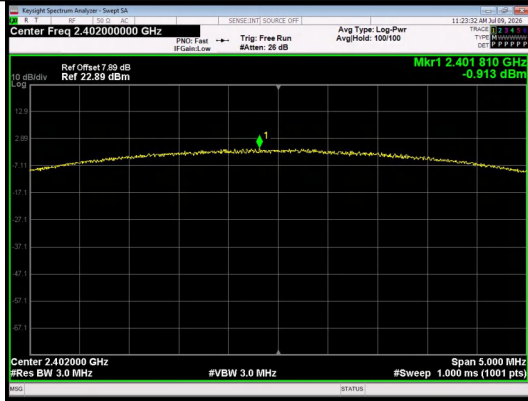
Peak Output Power
 $\pi/4$ DQPSK_Channel 0



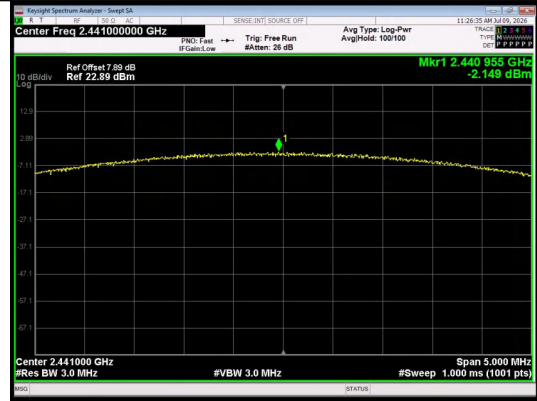
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



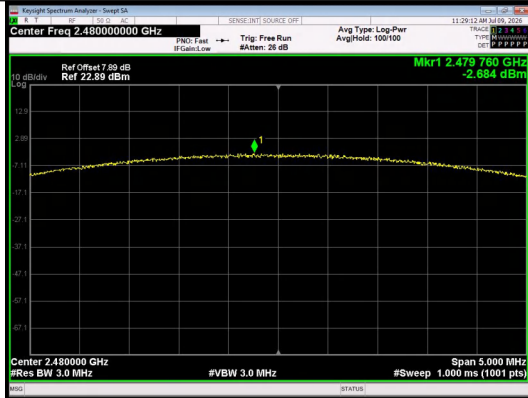
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



**Peak Output Power
8DPSK_Channel 0**



**Peak Output Power
8DPSK_Channel 39**



**Peak Output Power
8DPSK_Channel 78**

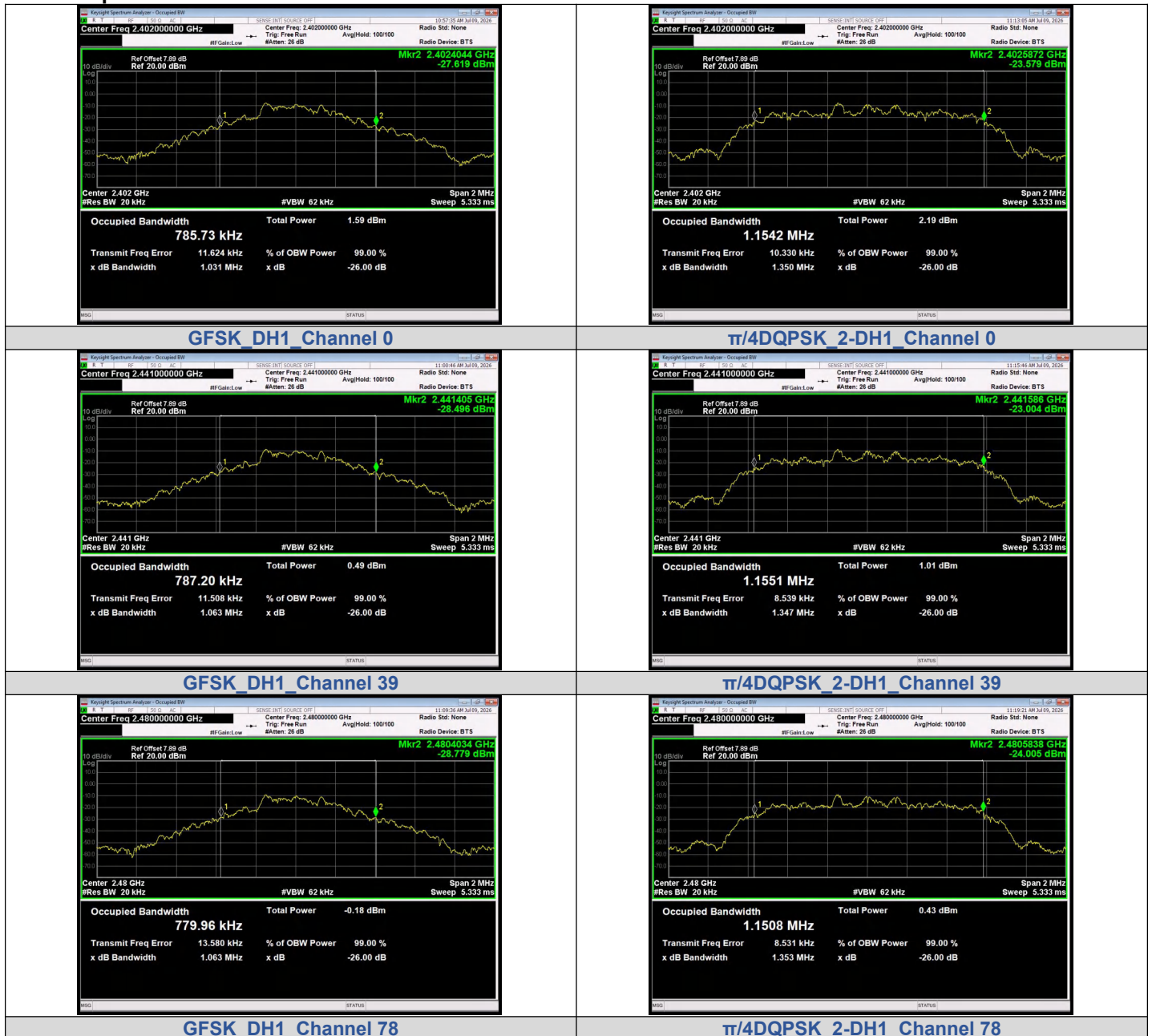
A.2 99% BANDWIDTH

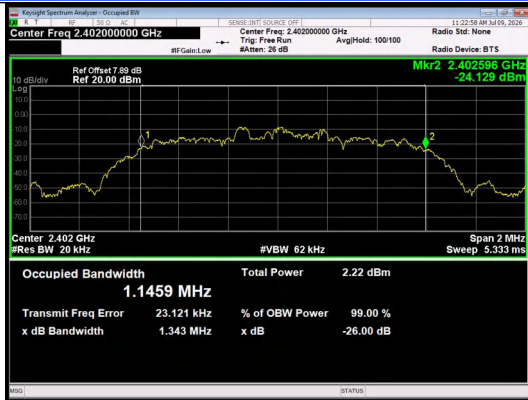
Test Result

Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.78573
	39	2441	0.78720
	78	2480	0.77996
π /4DQPSK	0	2402	1.1542
	39	2441	1.1551
	78	2480	1.1508
8DPSK	0	2402	1.1459
	39	2441	1.1434
	78	2480	1.1434

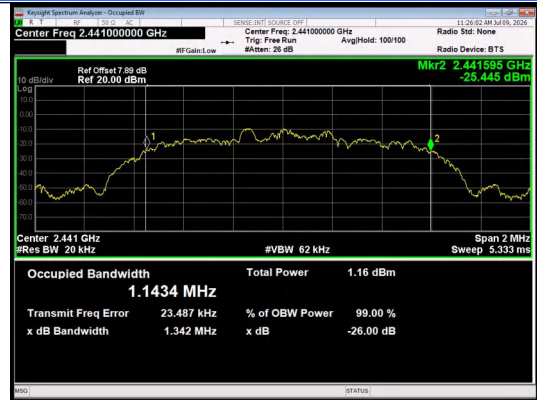
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

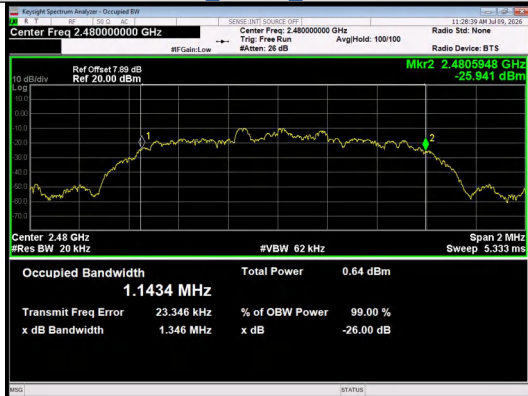




8DPSK_3-DH1_Channel 0



8DPSK_3-DH1_Channel 39



8DPSK_3-DH1_Channel 78

A.3 20DB BANDWIDTH

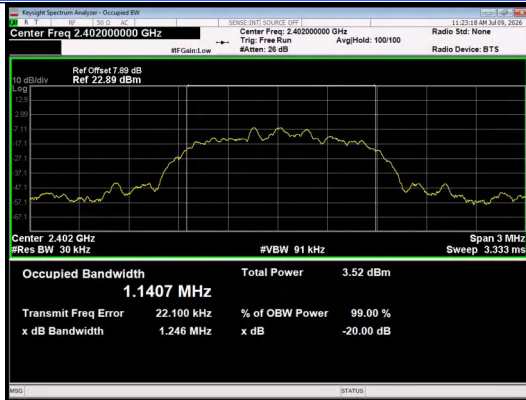
Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.8681
	39	2441 MHz	0.8711
	78	2480 MHz	0.8641
π /4DQPSK	0	2402 MHz	1.263
	39	2441 MHz	1.263
	78	2480 MHz	1.263
8DPSK	0	2402 MHz	1.246
	39	2441 MHz	1.244
	78	2480 MHz	1.239

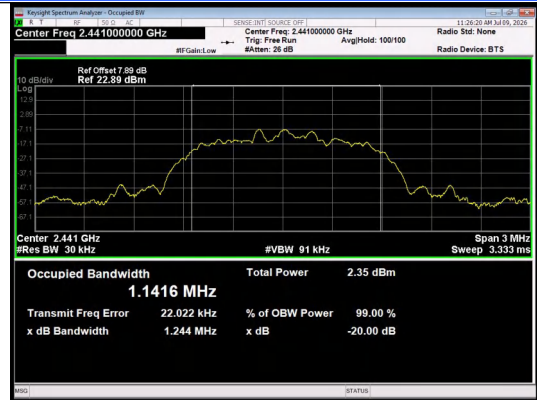
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

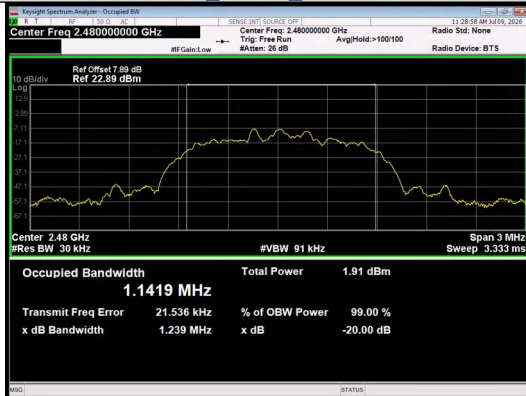




8DPSK_3-DH1_Channel 0



8DPSK_3-DH1_Channel 39



8DPSK_3-DH1_Channel 78

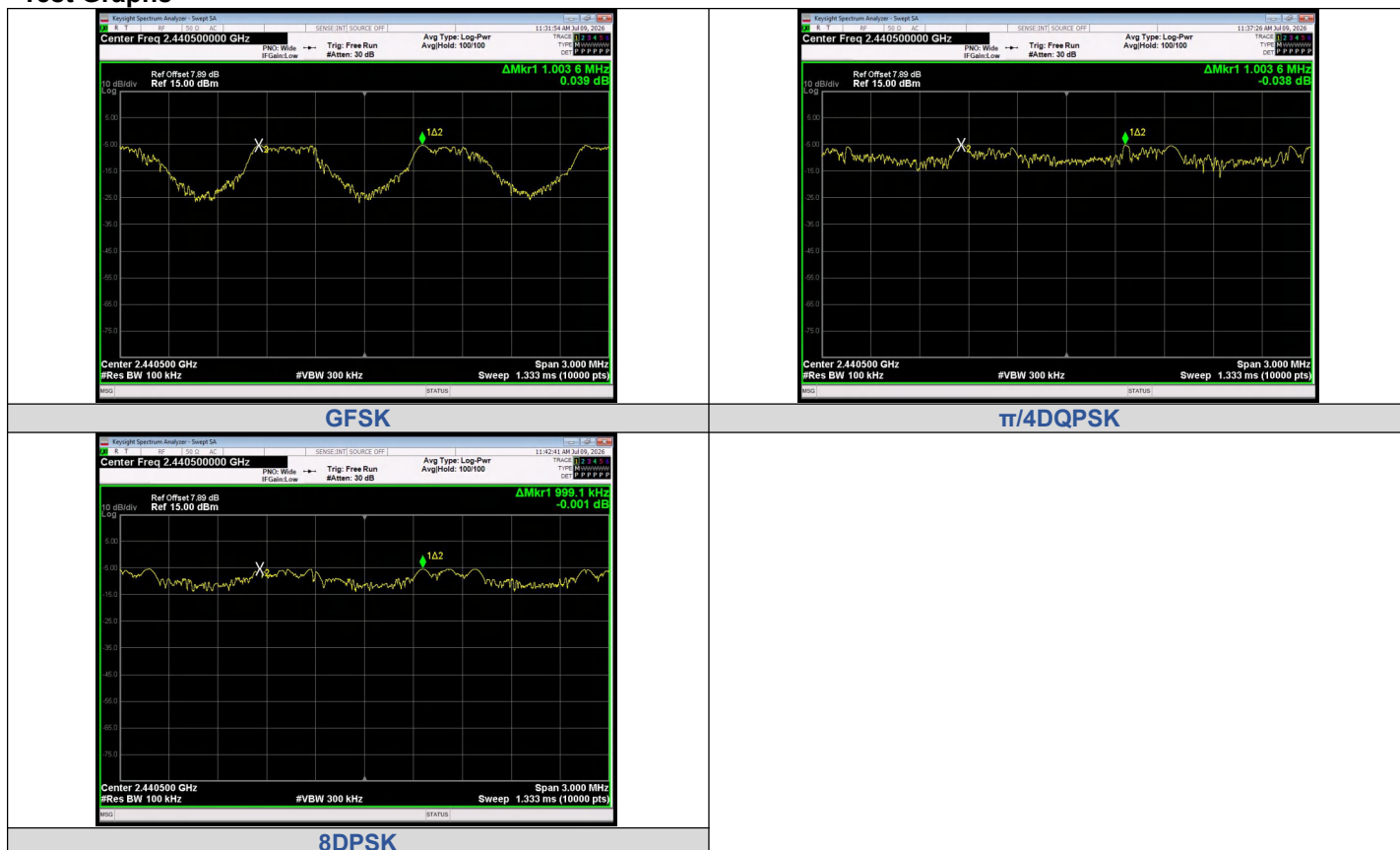
A.4 CARRIER FREQUENCIES SEPARATION

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Minimum Limit (MHz)	Result
GFSK	DH1	2439.8506	2440.8542	1.0036	0.871	PASS
$\pi/4$ DQPSK	2-DH1	2439.8554	2440.859	1.0036	0.842	PASS
8DPSK	3-DH1	2439.8572	2440.8563	0.9991	0.831	PASS

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

Test Graphs



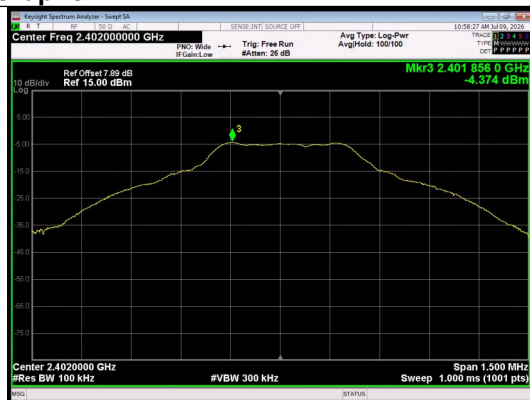
A.5 CONDUCTED SPURIOUS & BAND EDGE EMISSION

Test Result
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	0	2398.80	-53.979	-24.37	-29.609	PASS
			2400.00	-55.927	-24.37	-31.557	PASS
			4803.60	-36.731	-24.37	-12.361	PASS
			7205.80	-59.389	-24.37	-35.019	PASS
			9607.90	-53.443	-24.37	-29.073	PASS
		39	4881.67	-41.849	-25.45	-16.399	PASS
			7323.11	-61.512	-25.45	-36.062	PASS
			9763.93	-55.852	-25.45	-30.402	PASS
		78	2483.50	-57.250	-26.07	-31.180	PASS
			4959.70	-43.355	-26.07	-17.285	PASS
			7439.85	-61.916	-26.07	-35.846	PASS
			9919.99	-58.275	-26.07	-32.205	PASS
$\pi/4$ DQPSK	2-DH1	0	2398.72	-53.386	-24.43	-28.956	PASS
			2400.00	-56.375	-24.43	-31.945	PASS
			4804.30	-38.910	-24.43	-14.480	PASS
			7205.80	-60.269	-24.43	-35.839	PASS
			9607.90	-52.628	-24.43	-28.198	PASS
		39	4882.30	-43.164	-25.49	-17.674	PASS
			7323.11	-62.563	-25.49	-37.073	PASS
			9763.93	-56.141	-25.49	-30.651	PASS
		78	2483.50	-56.288	-26.01	-30.278	PASS
			4960.33	-39.922	-26.01	-13.912	PASS
			7439.85	-64.131	-26.01	-38.121	PASS
			9919.99	-59.165	-26.01	-33.155	PASS
8DPSK	3-DH1	0	2400.00	-51.182	-24.29	-26.892	PASS
			4803.64	-42.117	-24.29	-17.827	PASS
			7205.75	-57.501	-24.29	-33.211	PASS
			9607.87	-53.009	-24.29	-28.719	PASS
		39	4882.30	-43.697	-25.44	-18.257	PASS
			7323.11	-64.214	-25.44	-38.774	PASS
			9763.93	-56.504	-25.44	-31.064	PASS
		78	2483.50	-57.048	-25.92	-31.128	PASS
			4960.33	-38.967	-25.92	-13.047	PASS
			7440.47	-64.339	-25.92	-38.419	PASS
			9919.99	-57.258	-25.92	-31.338	PASS

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

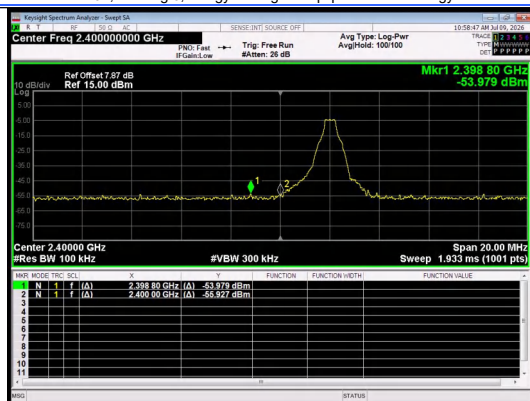
Test Graphs



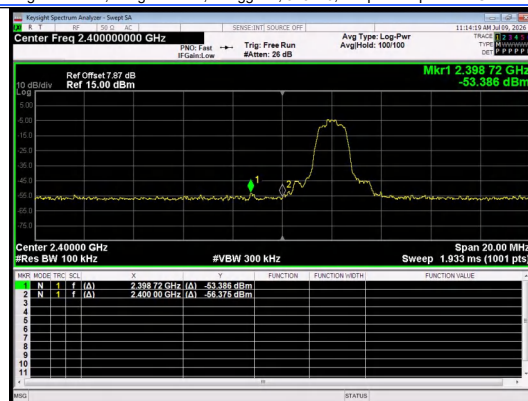
In-Band Reference Level
GFSK_DH1_Channel 0



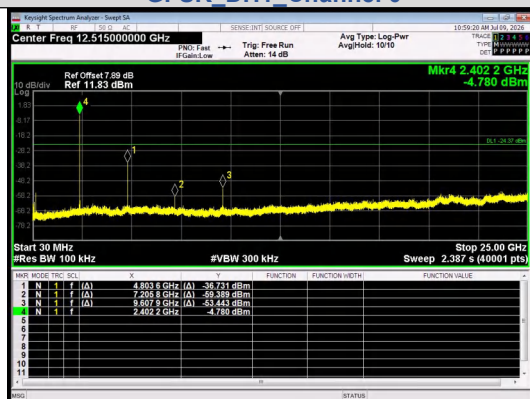
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH1_Channel 0



**Out Of Band Emission
GFSK_DH1_Channel 0**



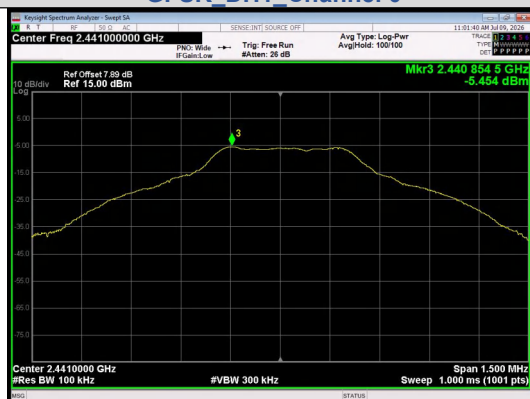
**Out Of Band Emission
 $\pi/4$ DQPSK_2-DH1_Channel 0**



**30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 0**



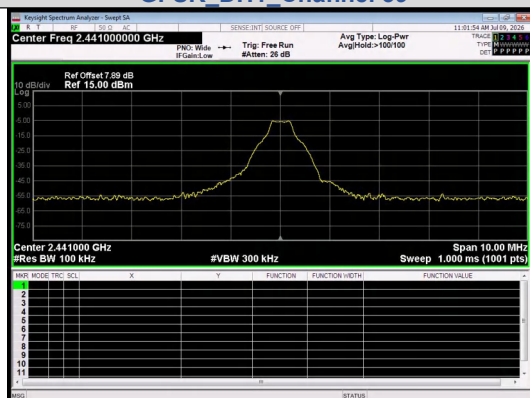
**30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH1_Channel 0**



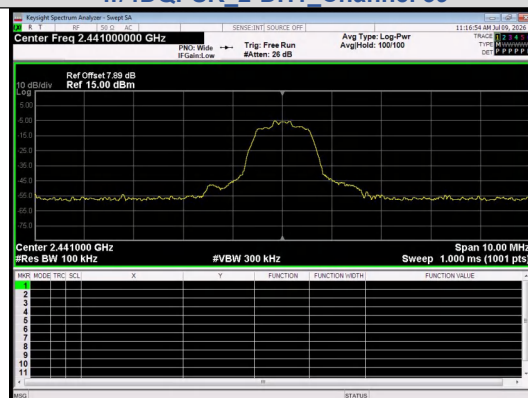
**In-Band Reference Level
GFSK_DH1_Channel 39**



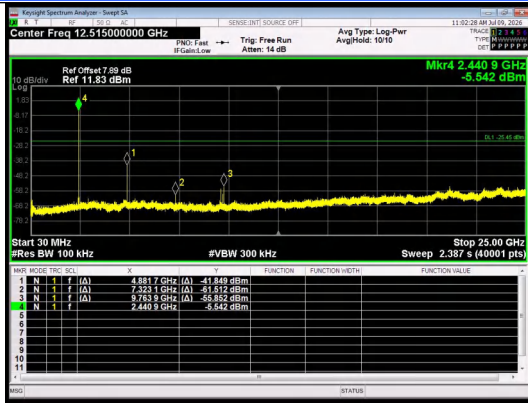
**In-Band Reference Level
 $\pi/4$ DQPSK_2-DH1_Channel 39**



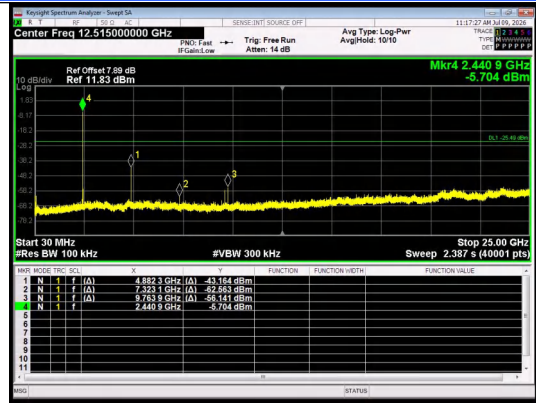
**Out Of Band Emission
GFSK_DH1_Channel 39**



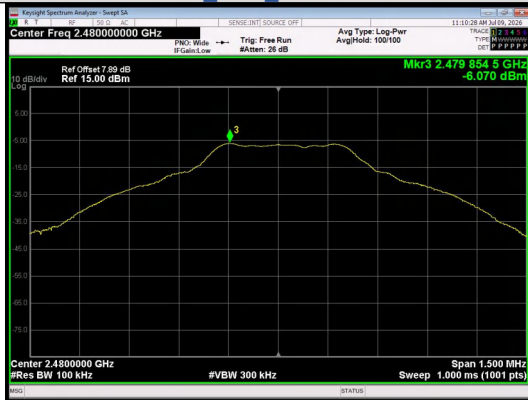
**Out Of Band Emission
 $\pi/4$ DQPSK_2-DH1_Channel 39**



30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 39



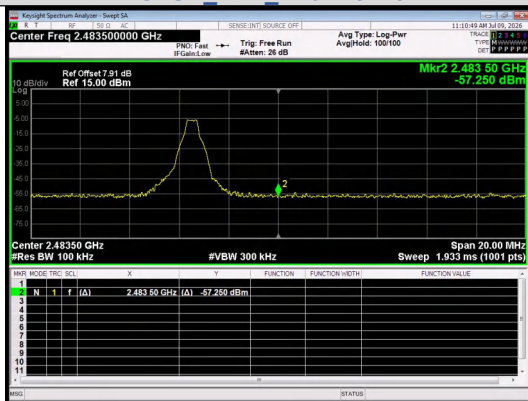
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH1_Channel 39



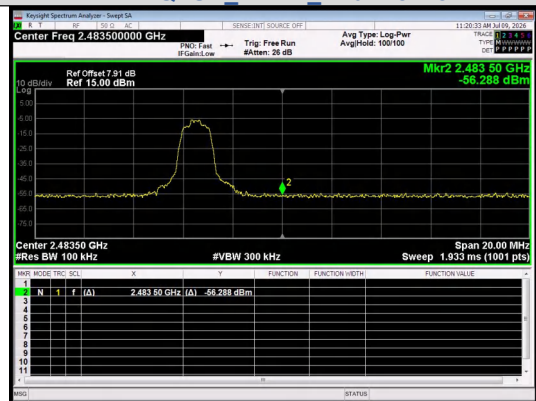
In-Band Reference Level
GFSK_DH1_Channel 78



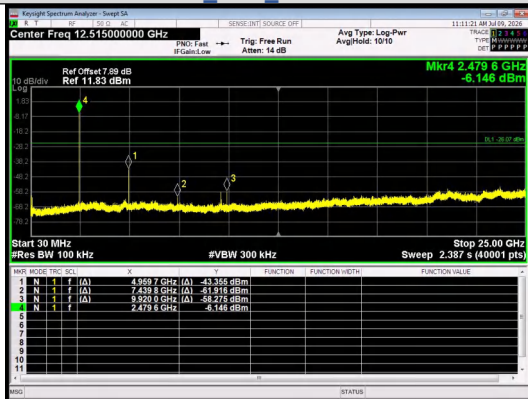
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH1_Channel 78



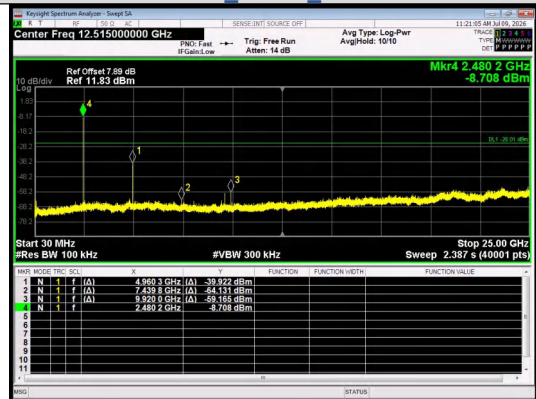
Out Of Band Emission
GFSK_DH1_Channel 78



Out Of Band Emission
 $\pi/4$ DQPSK_2-DH1_Channel 78



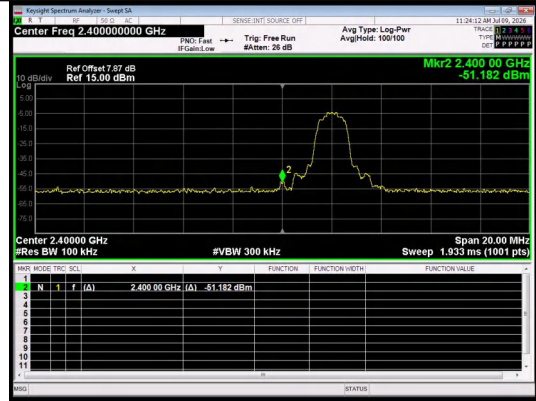
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 78



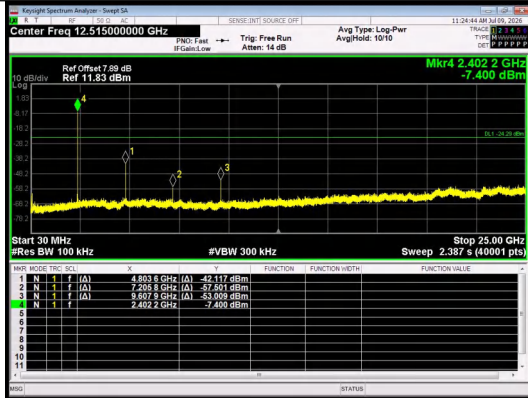
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH1_Channel 78



**In-Band Reference Level
8DPSK_3-DH1_Channel 0**



**Out Of Band Emission
8DPSK_3-DH1_Channel 0**



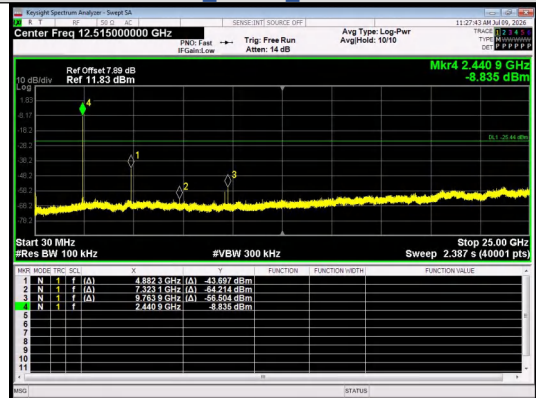
**30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 0**



**In-Band Reference Level
8DPSK_3-DH1_Channel 39**



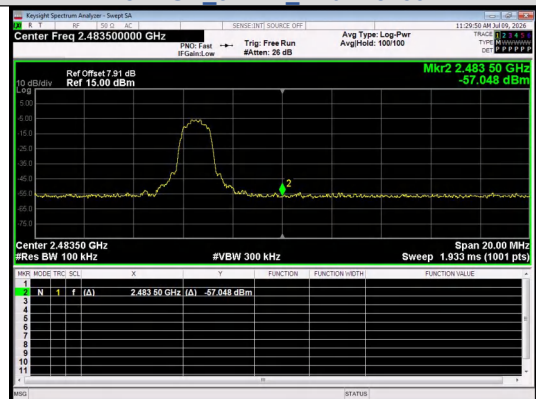
**Out Of Band Emission
8DPSK_3-DH1_Channel 39**



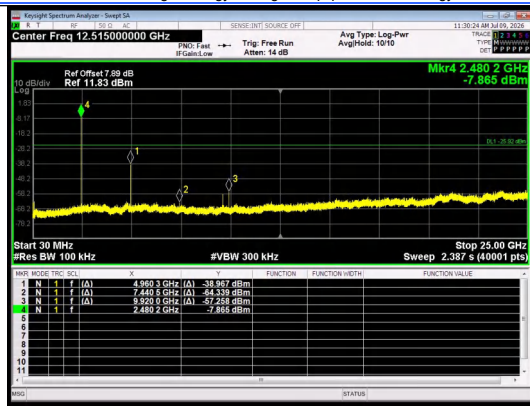
**30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 39**



**In-Band Reference Level
8DPSK_3-DH1_Channel 78**



**Out Of Band Emission
8DPSK_3-DH1_Channel 78**



30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 78

A.6 DUTY CYCLE

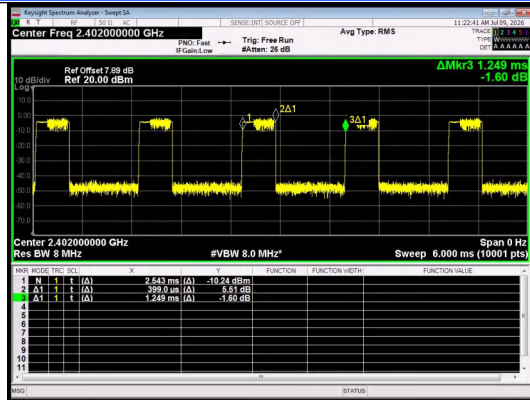
Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH1	0	0.389	1.250	31.12	0.3112	5.0696	2.5707
		39	0.389	1.249	31.14	0.3114	5.0668	2.5707
		78	0.389	1.249	31.14	0.3114	5.0668	2.5707
π /4DQPSK	2-DH1	0	0.398	1.250	31.84	0.3184	4.9703	2.5126
		39	0.398	1.249	31.87	0.3187	4.9662	2.5126
		78	0.398	1.250	31.84	0.3184	4.9703	2.5126
8DPSK	3-DH1	0	0.399	1.249	31.95	0.3195	4.9553	2.5063
		39	0.400	1.250	32.00	0.3200	4.9485	2.5000
		78	0.400	1.249	32.03	0.3203	4.9444	2.5000

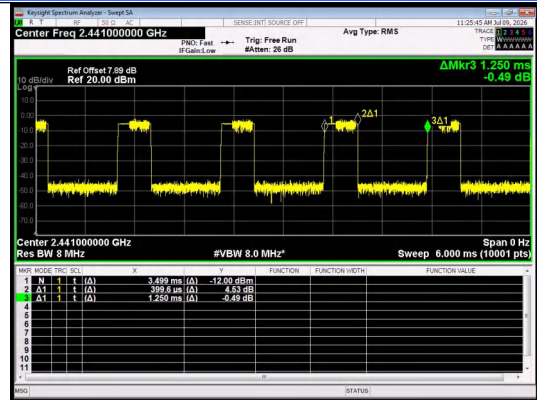
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs





8DPSK(3-DH1)_Channel 0



8DPSK(3-DH1)_Channel 39



8DPSK(3-DH1)_Channel 78

A.7 DWELL TIME

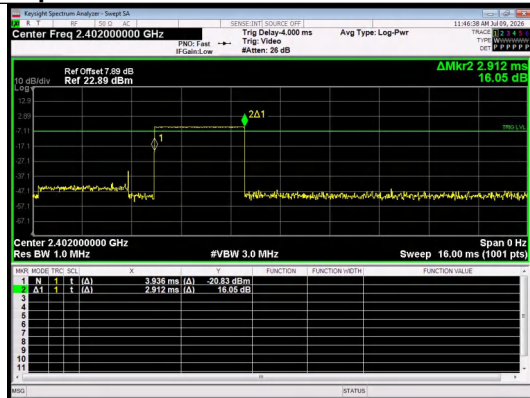
Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.912	112	326.14	< 400	PASS
	DH5		2.896	93	269.33		PASS
	DH5		2.912	103	299.94		PASS
π/4DQPSK	2-DH5		2.912	101	294.11		PASS
	2-DH5		2.896	106	306.98		PASS
	2-DH5		2.912	114	331.97		PASS
8DPSK	3-DH5		2.912	113	329.06		PASS
	3-DH5		2.912	106	308.67		PASS
	3-DH5		2.896	99	286.7		PASS

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

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

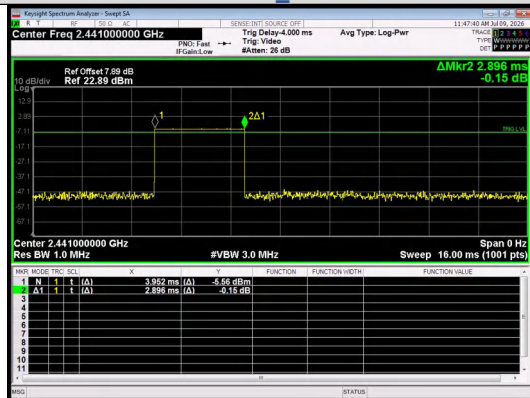
Test Graphs



Pulse Width
GFSK_DH5



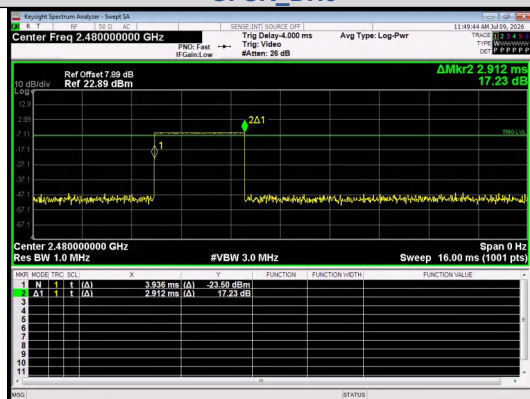
Number of Pulses in 31.6 seconds
GFSK_DH5



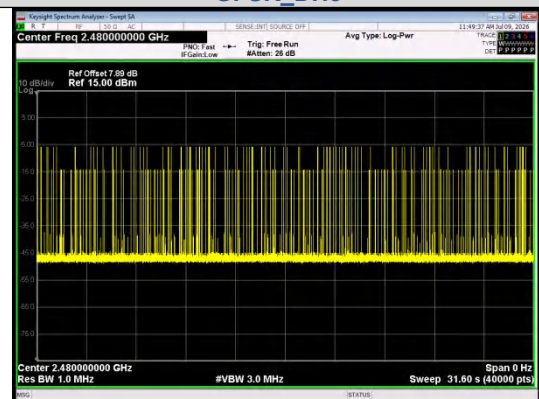
Pulse Width
GFSK_DH5



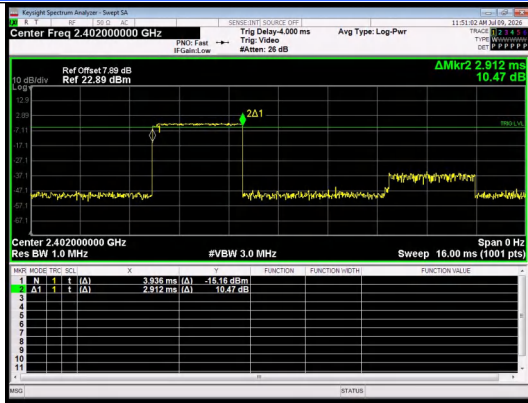
Number of Pulses in 31.6 seconds
GFSK_DH5



Pulse Width
GFSK_DH5



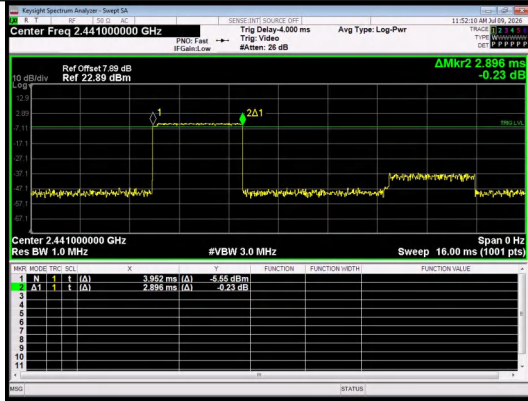
Number of Pulses in 31.6 seconds
GFSK_DH5



Pulse Width
 $\pi/4$ DQPSK_2-DH5



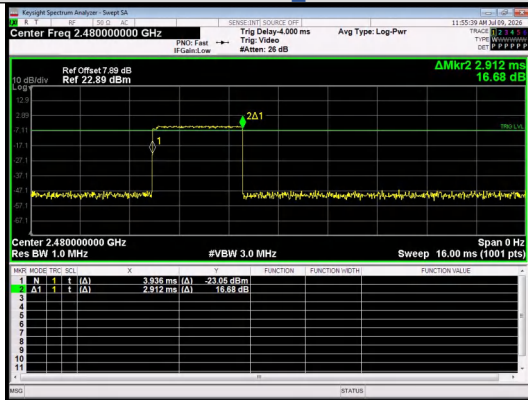
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



Pulse Width
 $\pi/4$ DQPSK_2-DH5



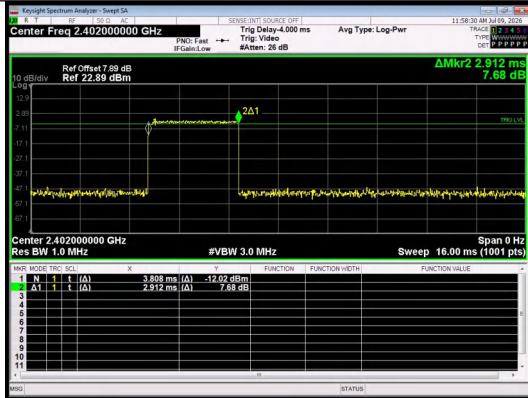
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



Pulse Width
 $\pi/4$ DQPSK_2-DH5



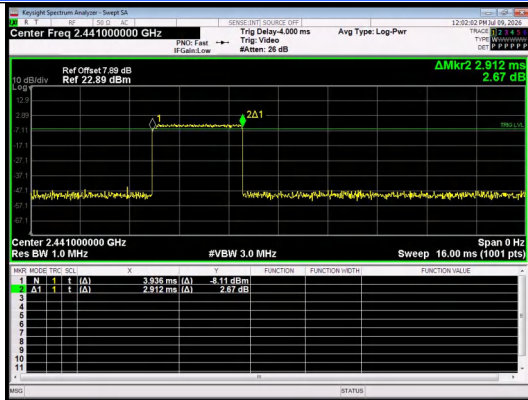
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



Pulse Width
8DPSK_3-DH5



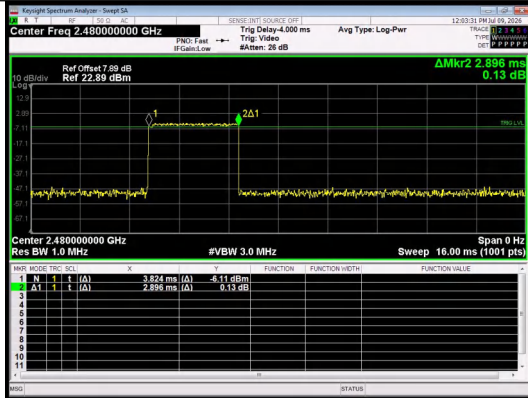
Number of Pulses in 31.6 seconds
8DPSK_3-DH5



**Pulse Width
8DPSK_3-DH5**



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



**Pulse Width
8DPSK_3-DH5**



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

A.8 NUMBER OF HOPPING CHANNEL

Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH1	79	15	PASS
$\pi/4$ DQPSK	2-DH1	79	15	PASS
8DPSK	3-DH1	79	15	PASS

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

Test Graphs

