

A.4 CONDUCTED OUT OF BAND EMISSION

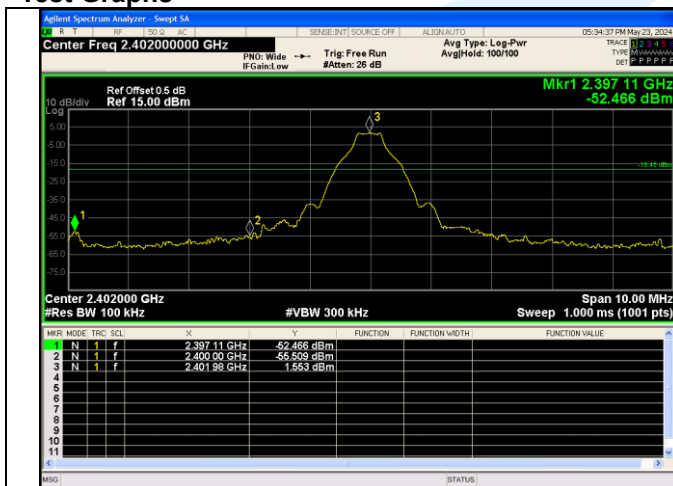
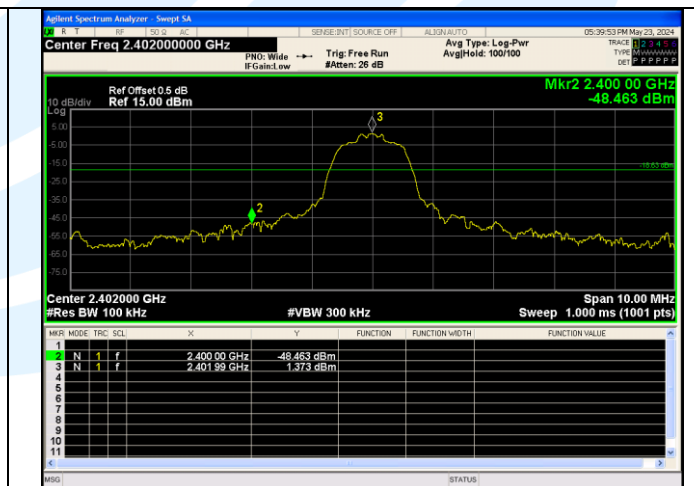
Test Result
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2397.11	-52.466	-18.45	-34.016	PASS
			2400.00	-55.509	-18.45	-37.059	PASS
			4803.60	-24.798	-18.45	-6.348	PASS
		39	4881.67	-22.753	-18.32	-4.433	PASS
			2483.50	-59.814	-18.93	-40.884	PASS
			4959.70	-23.765	-18.93	-4.835	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-48.463	-18.63	-29.833	PASS
			4804.26	-24.501	-18.63	-5.871	PASS
		39	4882.30	-26.468	-18.4	-8.068	PASS
			2483.50	-57.612	-18.94	-38.672	PASS
		78	4960.33	-27.560	-18.94	-8.620	PASS
			2483.50	-57.612	-18.94	-38.672	PASS
8DPSK	3-DH5	0	2400.00	-53.275	-18.56	-34.715	PASS
			4804.26	-27.016	-18.56	-8.456	PASS
		39	4882.30	-27.320	-18.43	-8.890	PASS
			2483.50	-57.021	-19.03	-37.991	PASS
		78	4959.70	-22.174	-19.03	-3.144	PASS
			2483.50	-57.021	-19.03	-37.991	PASS

Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2398.20	-55.538	-18.48	-37.058	PASS
			2400.00	-56.945	-18.48	-38.465	PASS
			2483.50	-60.590	-18.94	-41.650	PASS
π/4DQPSK	2-DH5		2397.07	-53.907	-18.68	-35.227	PASS
			2400.00	-54.908	-18.68	-36.228	PASS
			2483.50	-59.439	-19.06	-40.379	PASS
8DPSK	3-DH5		2398.15	-53.571	-18.73	-34.841	PASS
			2400.00	-54.791	-18.73	-36.061	PASS
			2483.50	-57.966	-19.2	-38.766	PASS

Test Graphs

Out Of Band Emission
GFSK_DH5_Channel 0Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

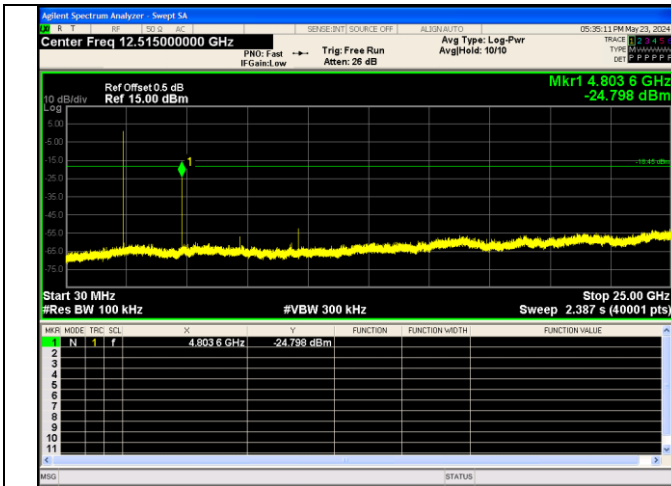
Tel: +86-755-28230888

Fax: +86-755-28230886

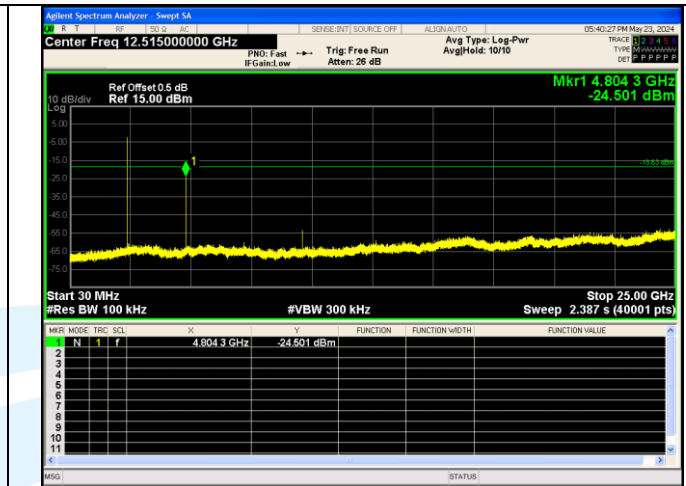
E-mail: info@uttlab.com

<http://www.uttlab.com>

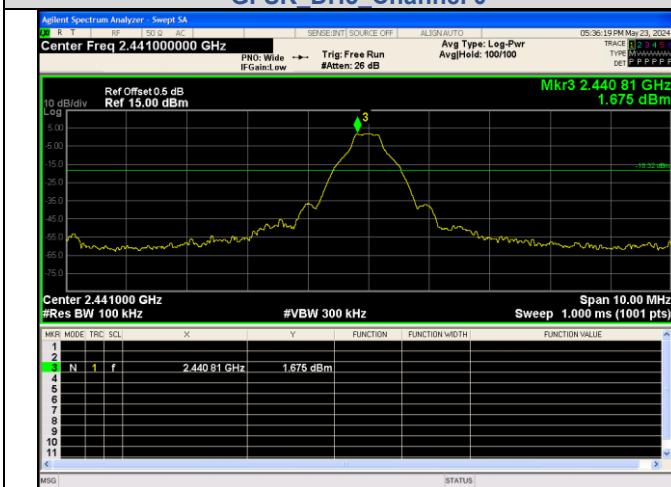
UTTR-RF-FCCPART15.247-V1.1



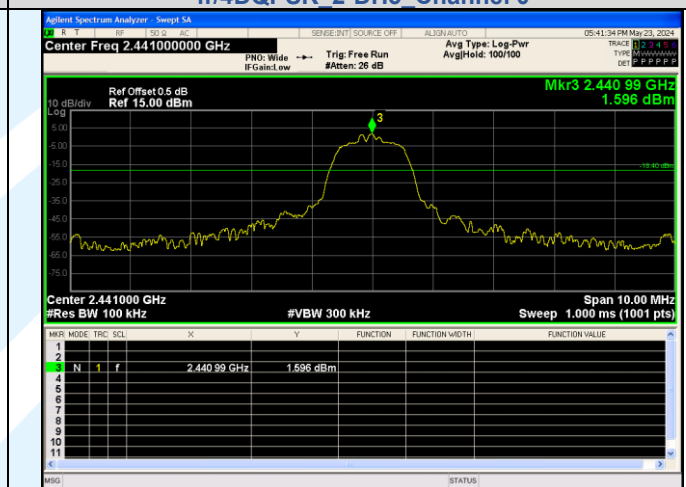
30.0 MHz - 25000.0 MHz
GFSK DH5 Channel 0



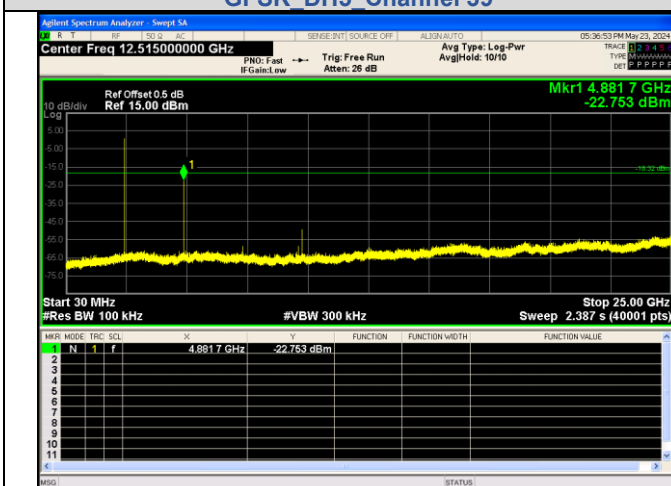
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK 2-DH5 Channel 0



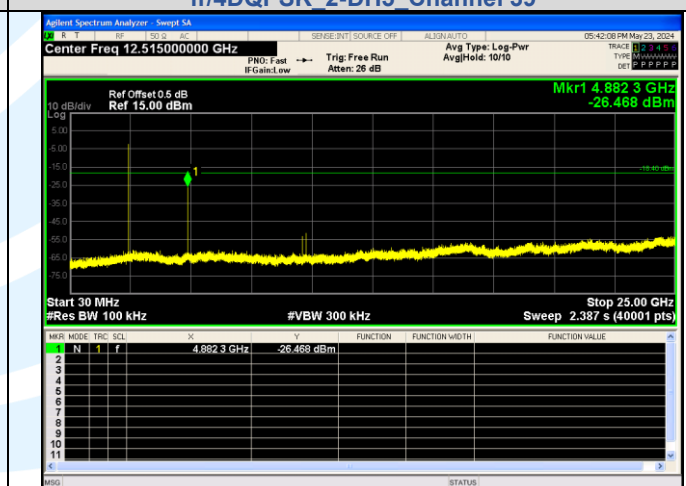
Out Of Band Emission
GFSK DH5 Channel 39



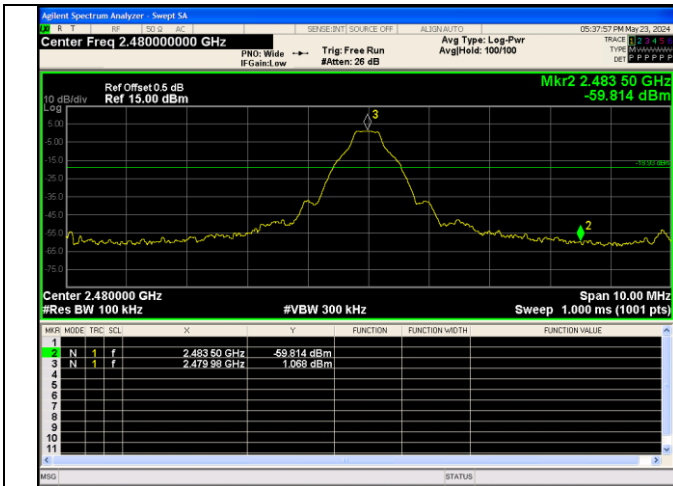
Out Of Band Emission
 $\pi/4$ DQPSK 2-DH5 Channel 39



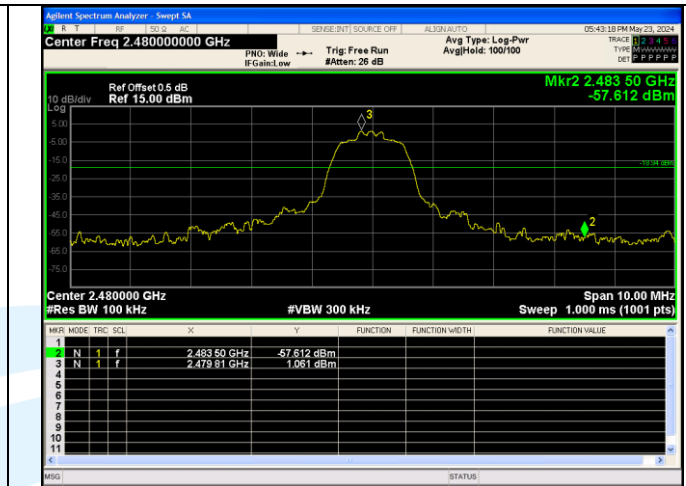
30.0 MHz - 25000.0 MHz
GFSK DH5 Channel 39



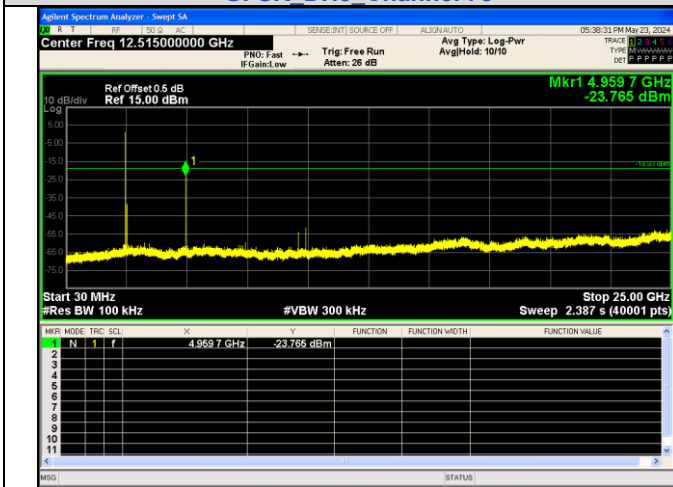
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK 2-DH5 Channel 39



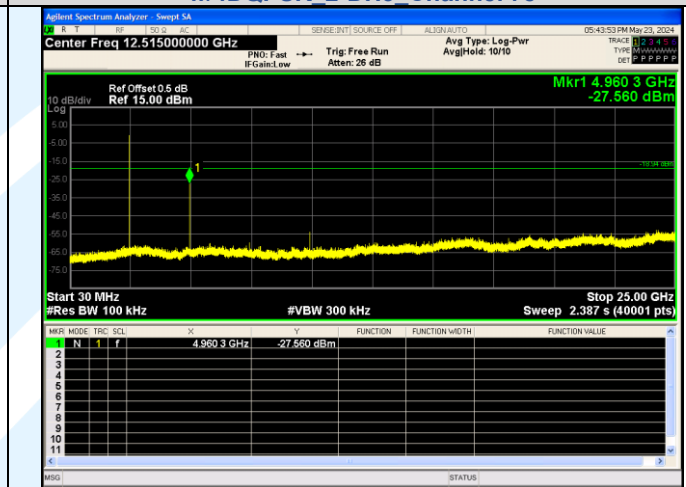
Out Of Band Emission
GFSK DH5 Channel 78



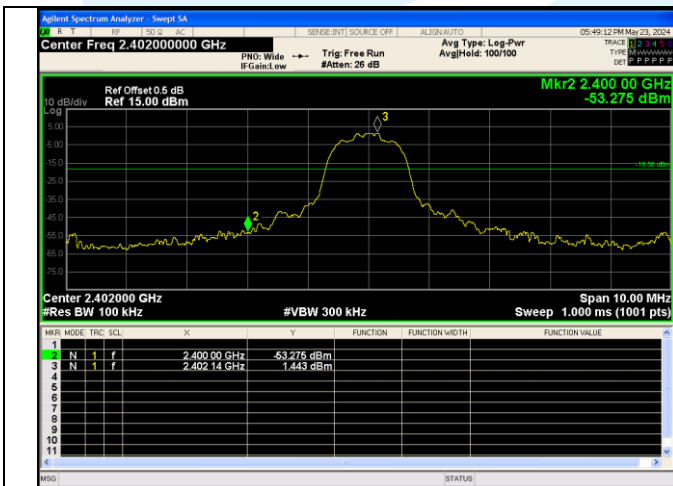
Out Of Band Emission
 $\pi/4$ DQPSK 2-DH5 Channel 78



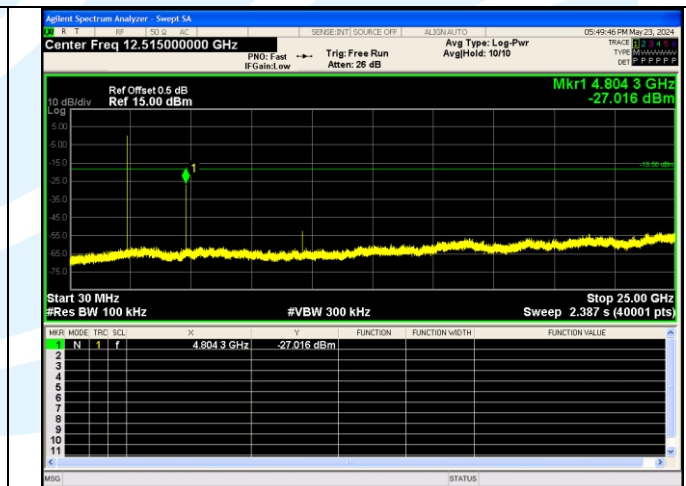
30.0 MHz - 25000.0 MHz
GFSK DH5 Channel 78



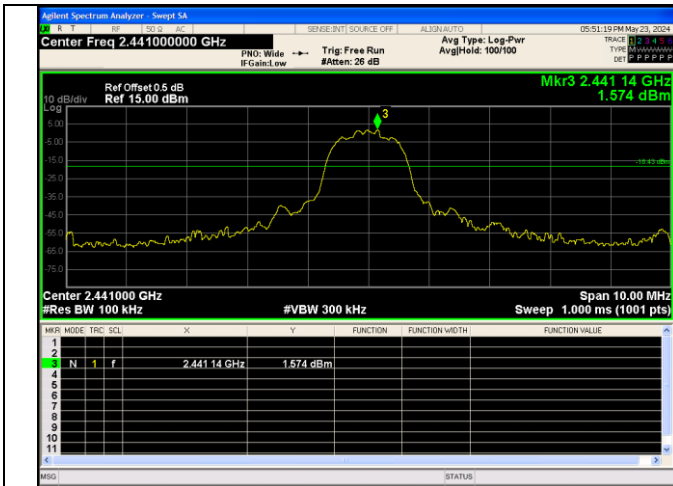
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK 2-DH5 Channel 78



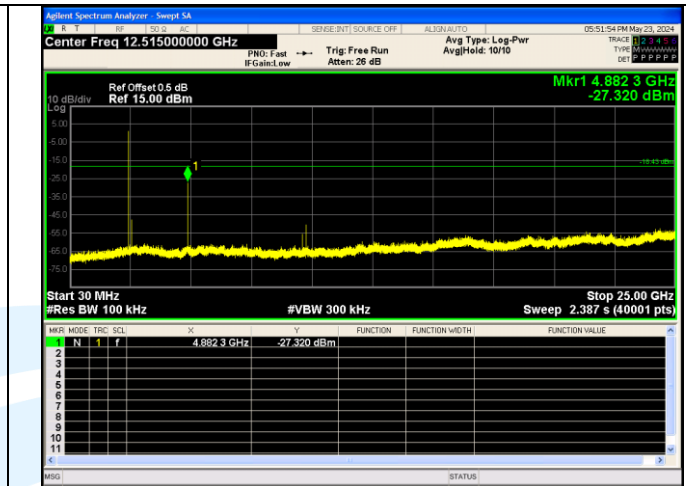
Out Of Band Emission
8DPSK 3-DH5 Channel 0



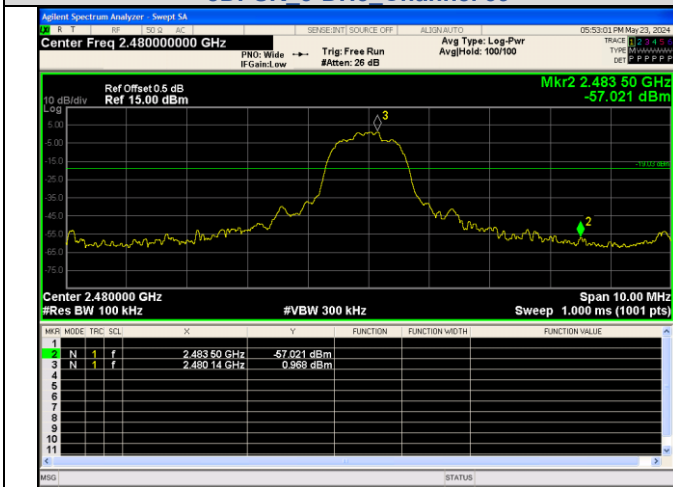
30.0 MHz - 25000.0 MHz
8DPSK 3-DH5 Channel 0



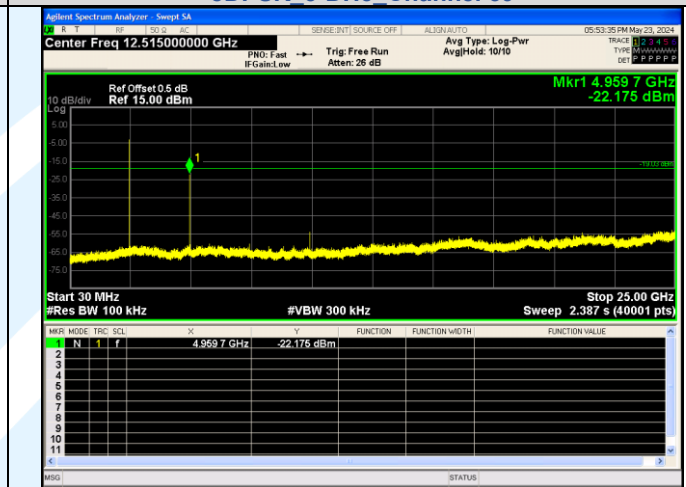
Out Of Band Emission
8DPSK 3-DH5 Channel 39



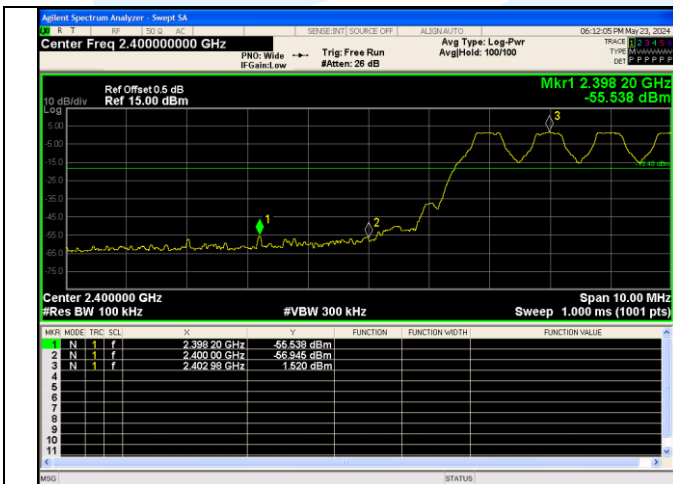
30.0 MHz - 25000.0 MHz
8DPSK 3-DH5 Channel 39



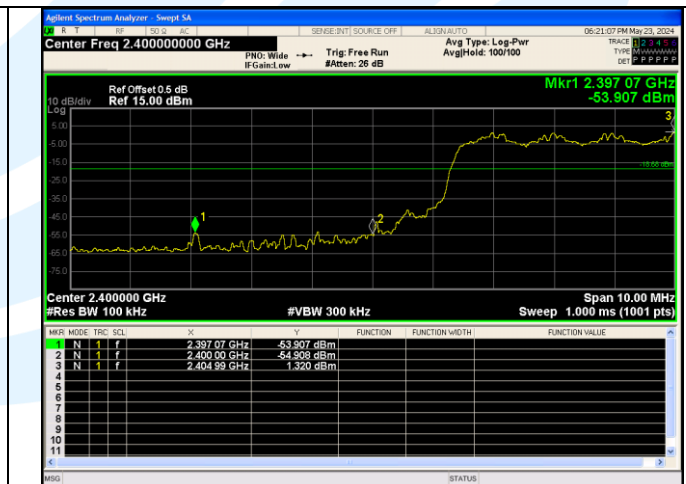
Out Of Band Emission
8DPSK 3-DH5 Channel 78



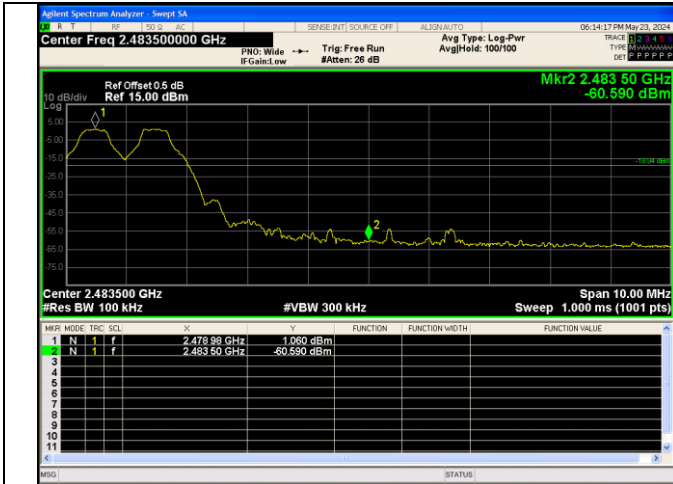
30.0 MHz - 25000.0 MHz
8DPSK 3-DH5 Channel 78



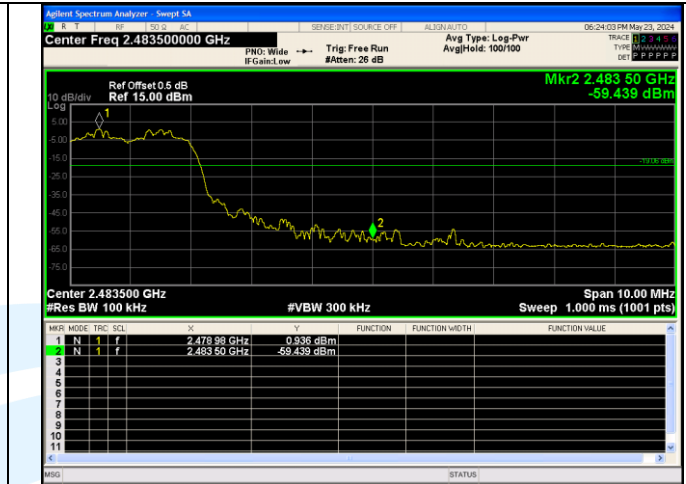
Out Of Band Emission(Left)
GFSK DH5 Channel Hopping



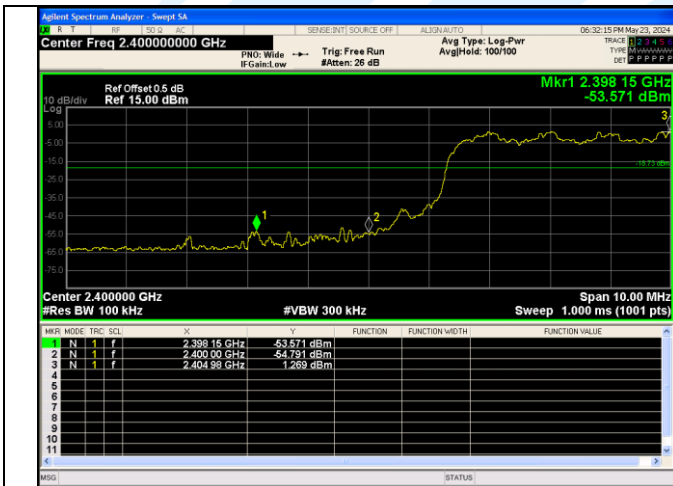
Out Of Band Emission(Left)
 $\pi/4$ DQPSK 2-DH5 Channel Hopping



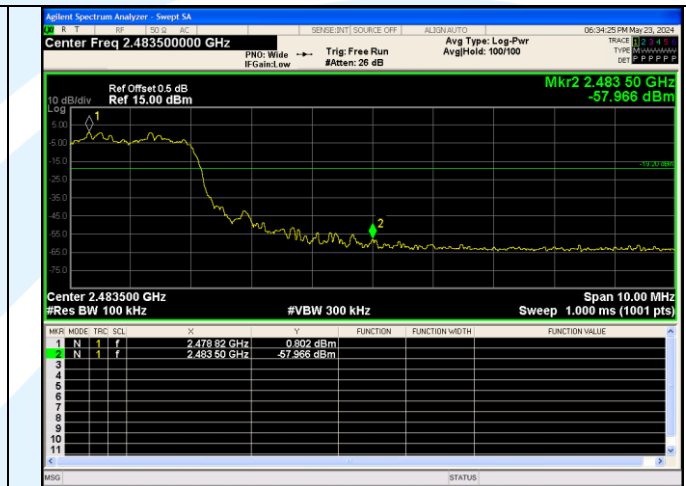
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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



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



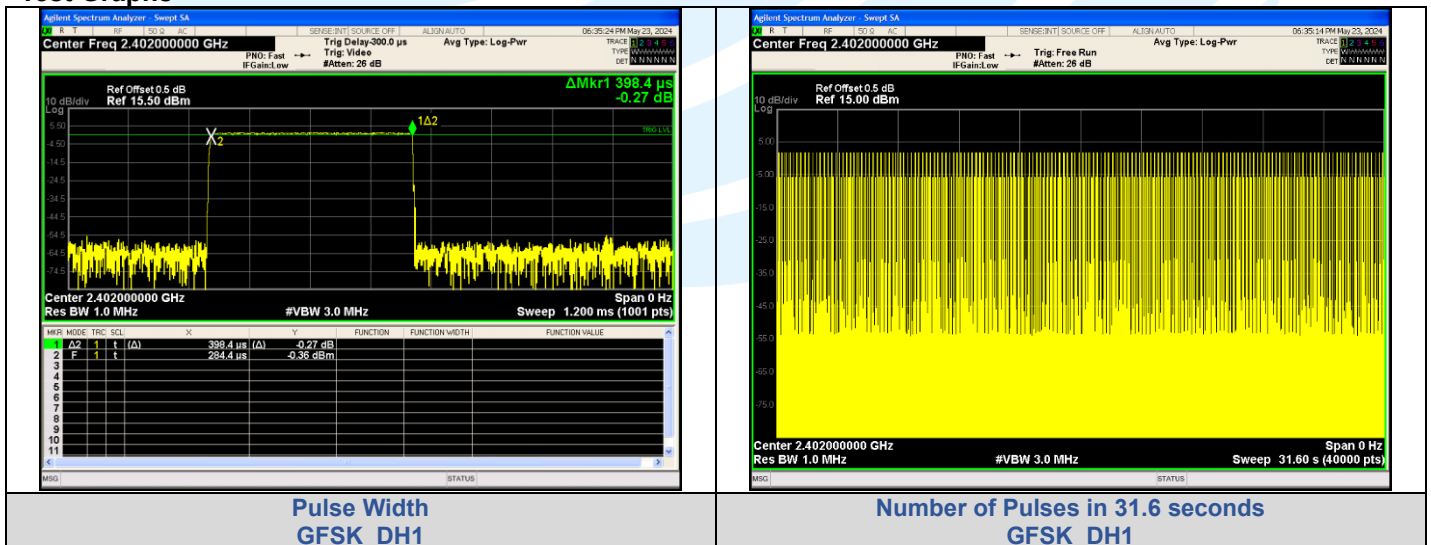
Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping

A.5 DWELL TIME

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	CH0 (2402MHz)	0.3984	317	126.29	< 400	PASS
	DH1	CH78 (2480MHz)	0.3984	317	126.29		PASS
	DH3	CH0 (2402MHz)	1.656	160	264.96		PASS
	DH3	CH78 (2480MHz)	1.656	156	258.34		PASS
	DH5	CH0 (2402MHz)	2.896	101	292.5		PASS
	DH5	CH78 (2480MHz)	2.912	101	294.11		PASS
$\pi/4$ DQPSK	2-DH1	CH0 (2402MHz)	0.4080	315	128.52		PASS
	2-DH1	CH78 (2480MHz)	0.4080	317	129.34		PASS
	2-DH3	CH0 (2402MHz)	1.656	157	259.99		PASS
	2-DH3	CH78 (2480MHz)	1.680	159	267.12		PASS
	2-DH5	CH0 (2402MHz)	2.912	99	288.29		PASS
	2-DH5	CH78 (2480MHz)	2.912	104	302.85		PASS
8DPSK	3-DH1	CH0 (2402MHz)	0.4104	316	129.69		PASS
	3-DH1	CH78 (2480MHz)	0.4104	317	130.1		PASS
	3-DH3	CH0 (2402MHz)	1.680	160	268.8		PASS
	3-DH3	CH78 (2480MHz)	1.644	157	258.11		PASS
	3-DH5	CH0 (2402MHz)	2.912	115	334.88		PASS
	3-DH5	CH78 (2480MHz)	2.912	100	291.2		PASS

Test Graphs



Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

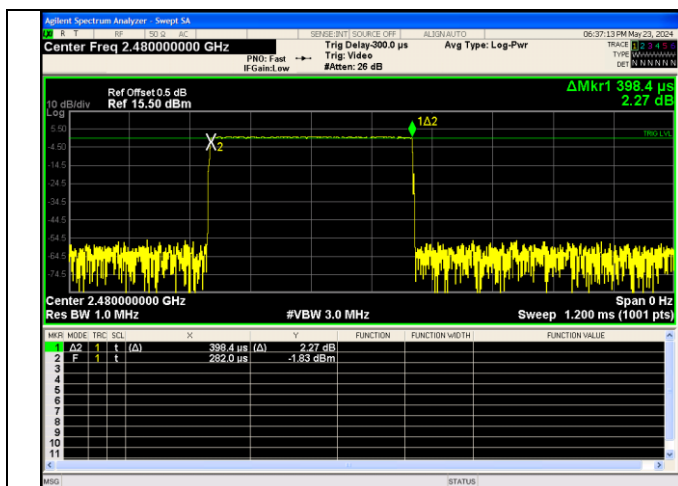
Tel: +86-755-28230888

Fax: +86-755-28230886

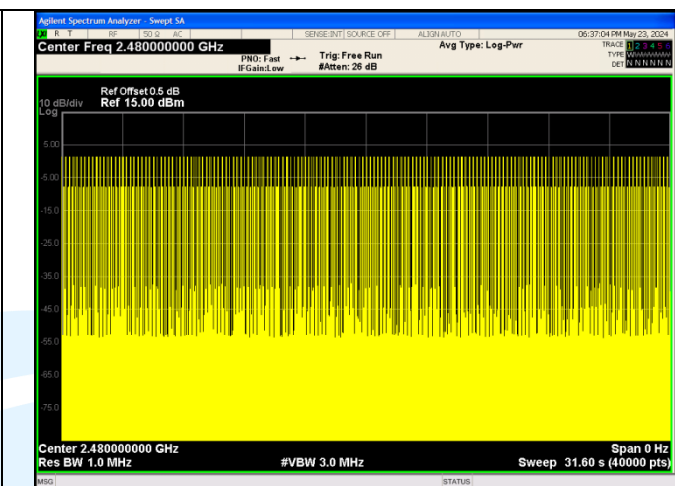
E-mail: info@uttlab.com

<http://www.uttlab.com>

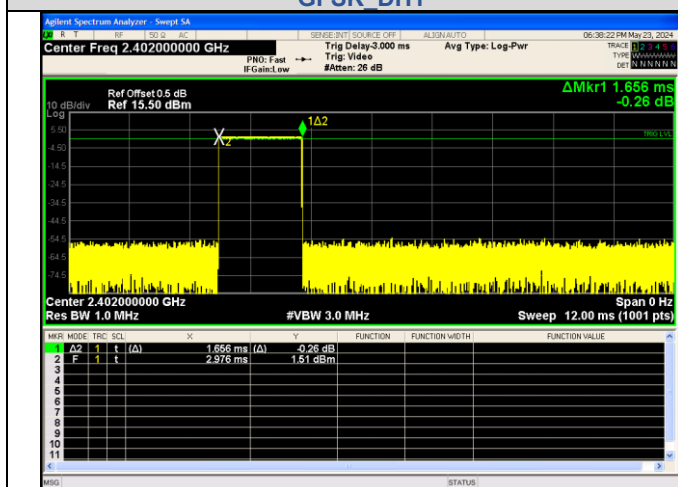
UTTR-RF-FCCPART15.247-V1.1



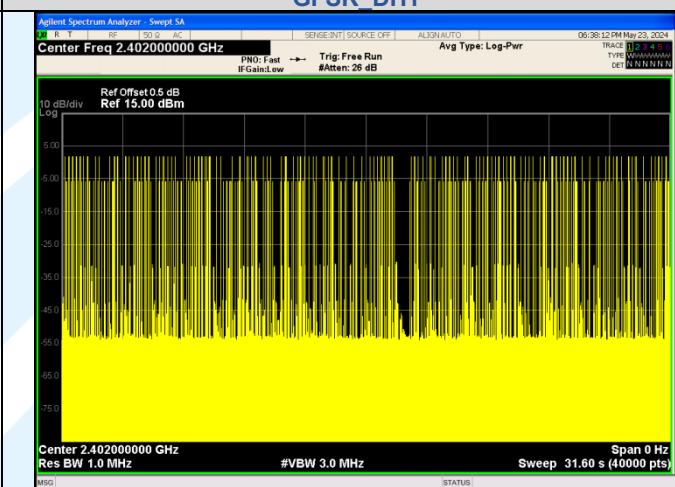
Pulse Width
GFSK_DH1



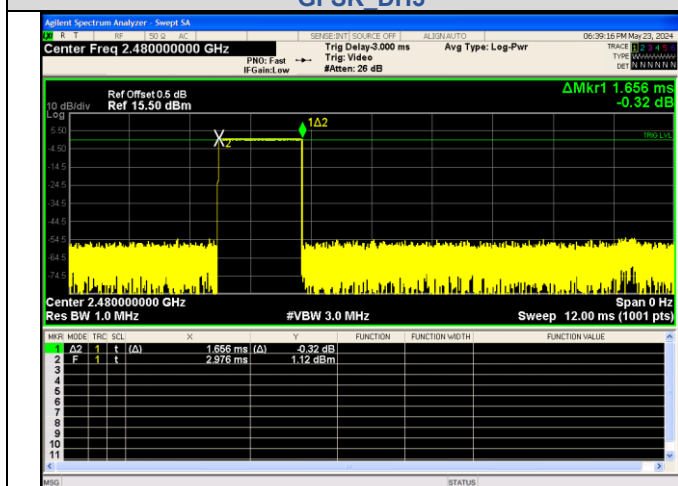
Number of Pulses in 31.6 seconds
GFSK_DH1



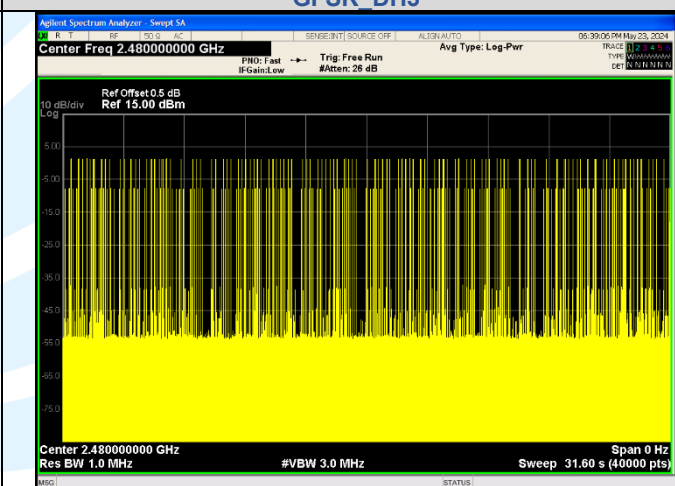
Pulse Width
GFSK_DH3



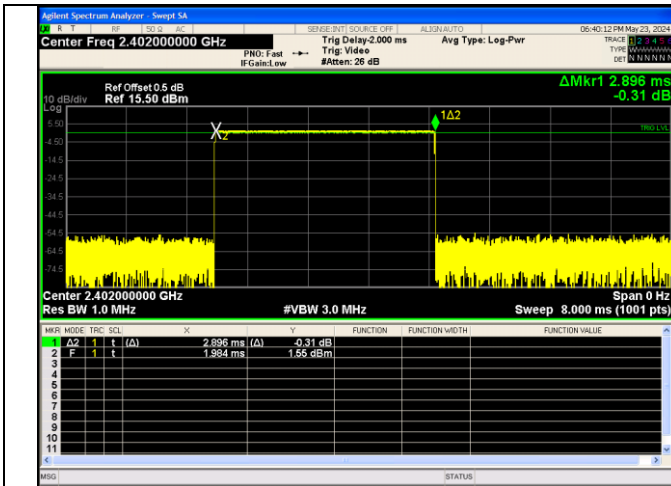
Number of Pulses in 31.6 seconds
GFSK_DH3



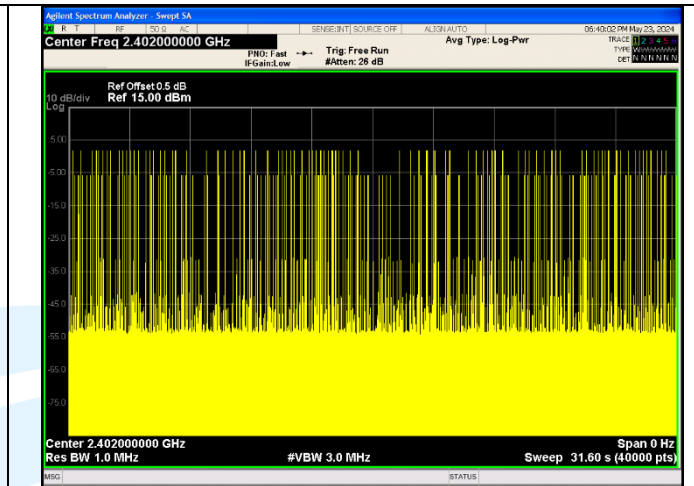
Pulse Width
GFSK_DH3



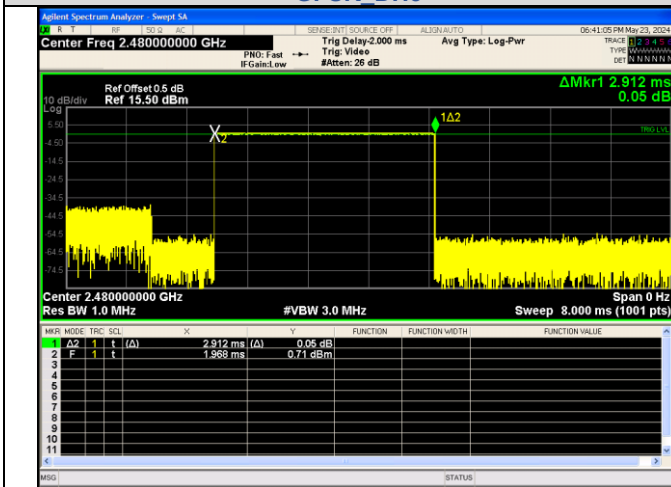
Number of Pulses in 31.6 seconds
GFSK_DH3



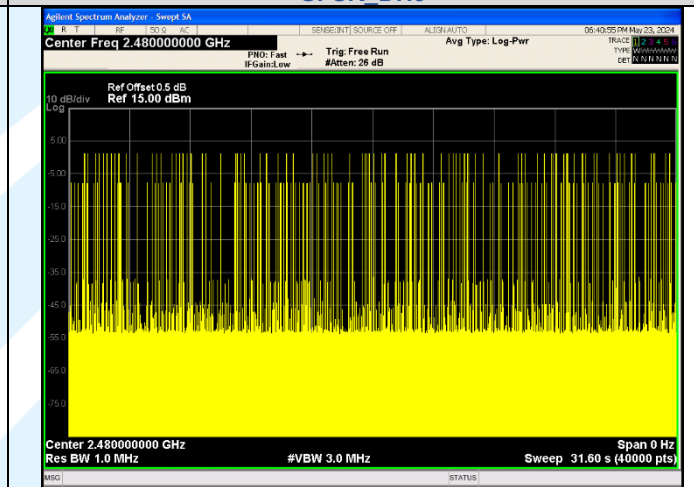
Pulse Width
GFSK DH5



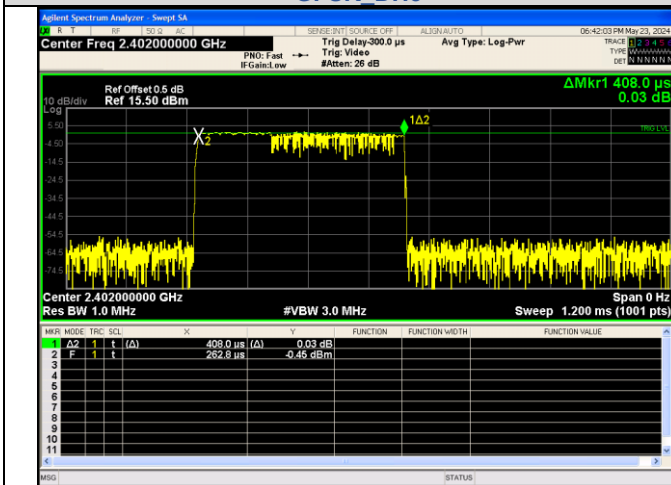
Number of Pulses in 31.6 seconds
GFSK DH5



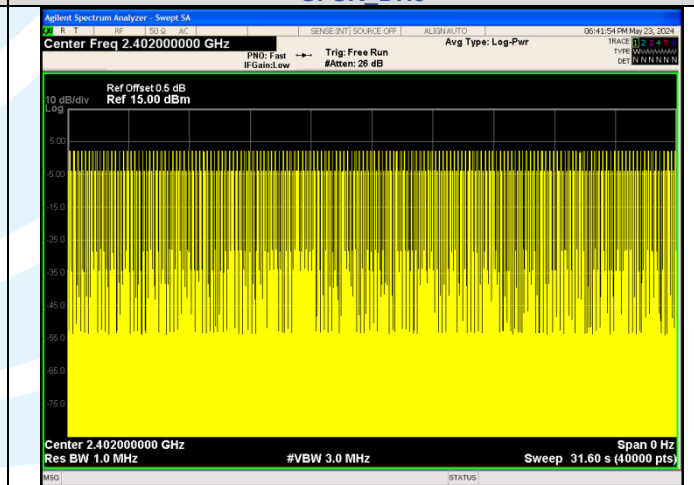
Pulse Width
GFSK DH5



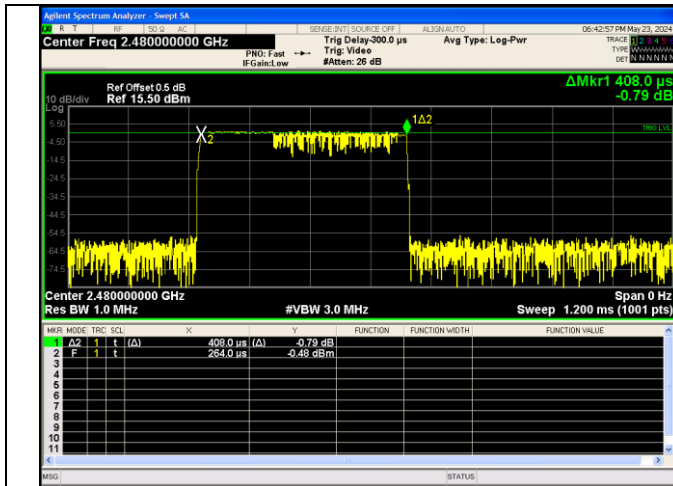
Number of Pulses in 31.6 seconds
GFSK DH5



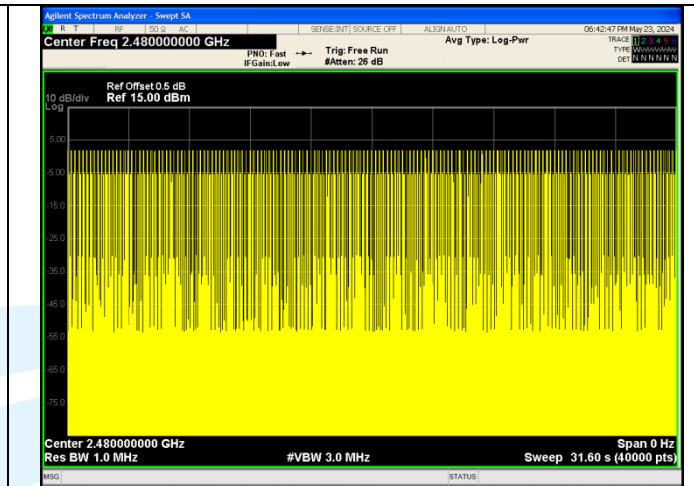
Pulse Width
π/4DQPSK_2-DH1



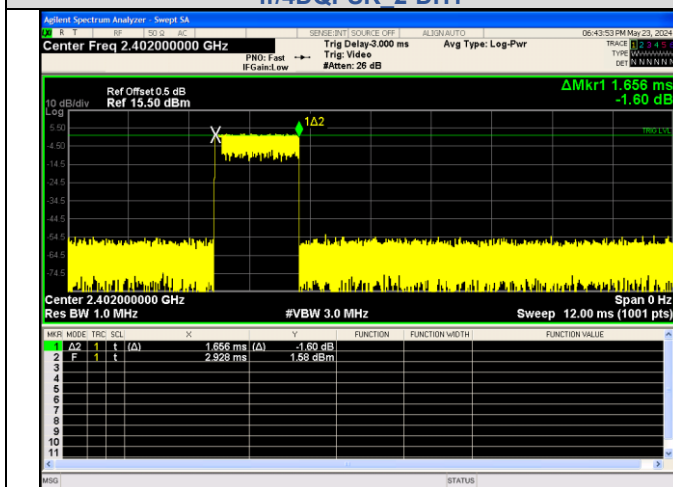
Number of Pulses in 31.6 seconds
π/4DQPSK_2-DH1



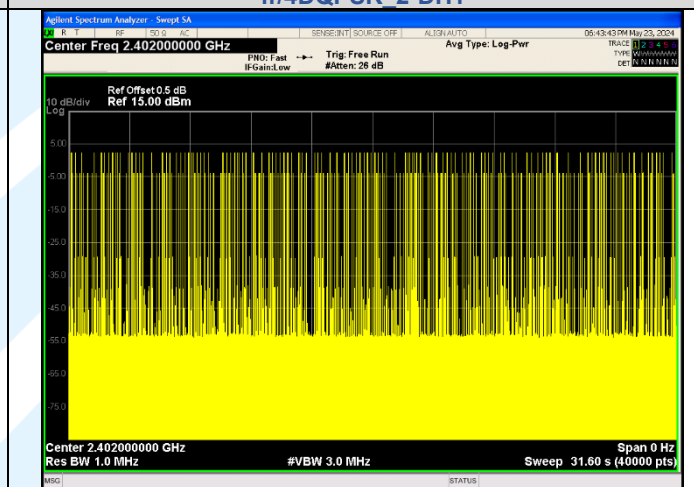
Pulse Width
 $\pi/4$ DQPSK 2-DH1



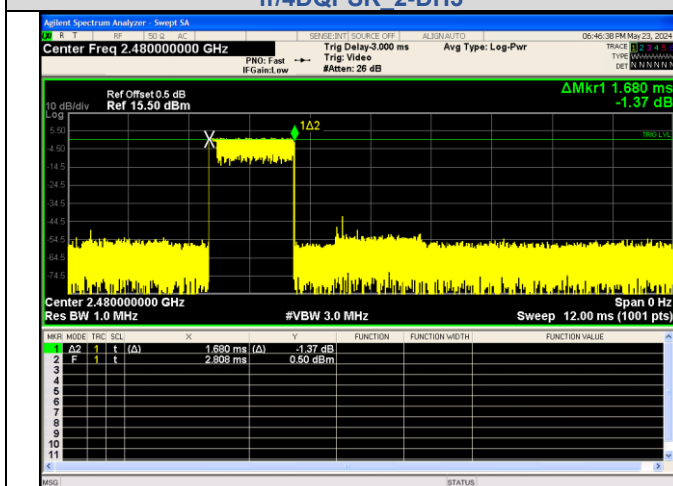
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH1



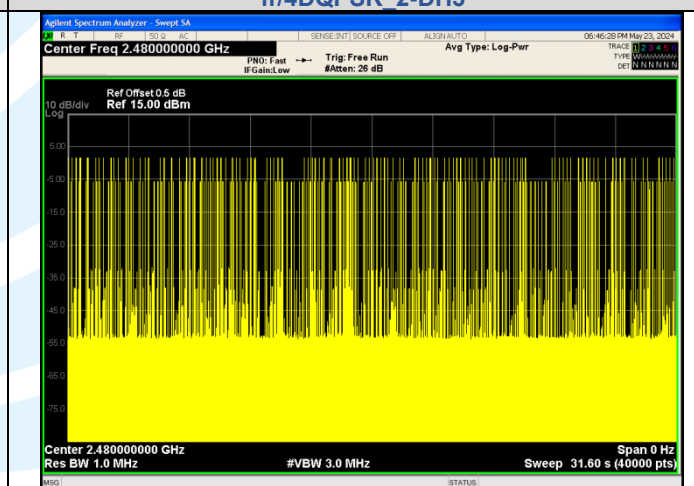
Pulse Width
 $\pi/4$ DQPSK 2-DH3



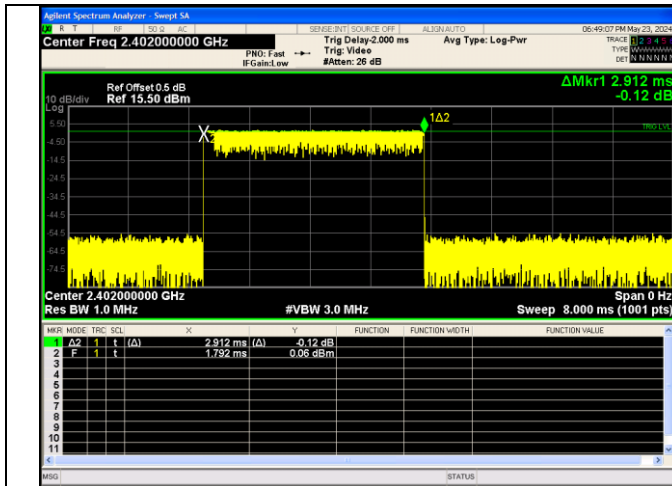
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH3



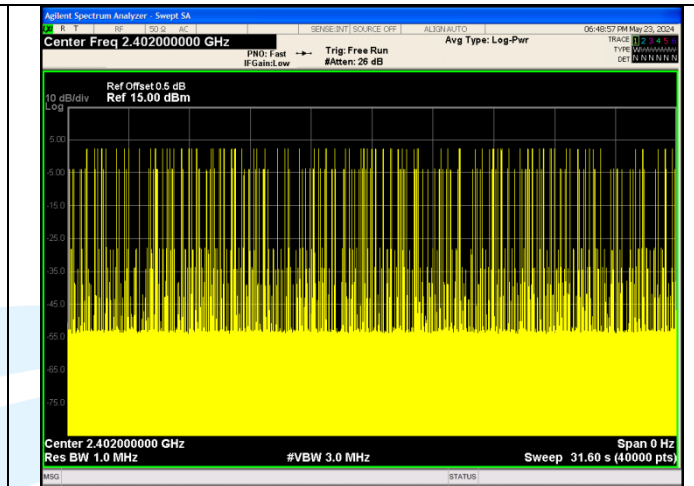
Pulse Width
 $\pi/4$ DQPSK 2-DH3



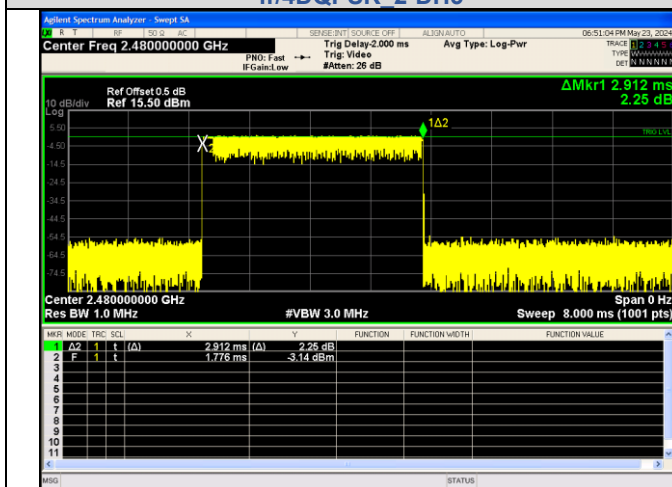
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH3



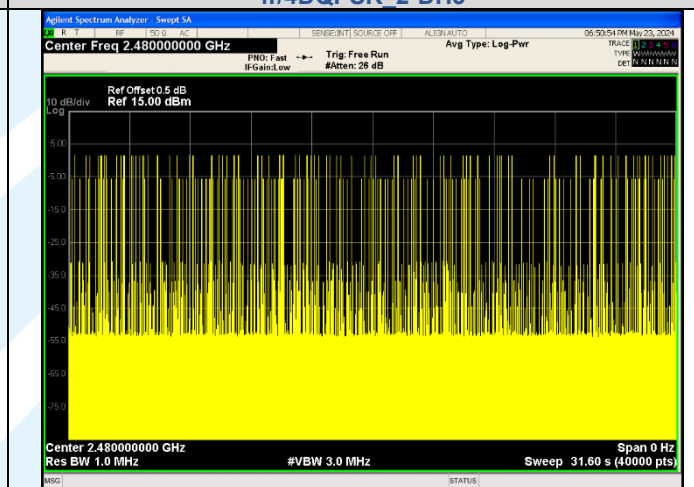
Pulse Width
 $\pi/4$ DQPSK 2-DH5



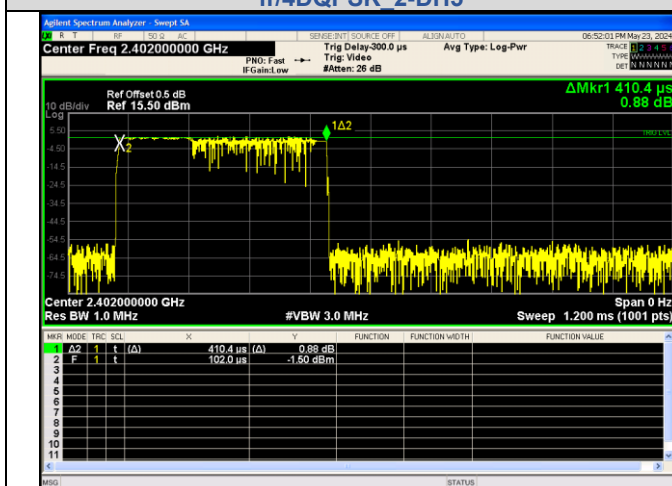
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH5



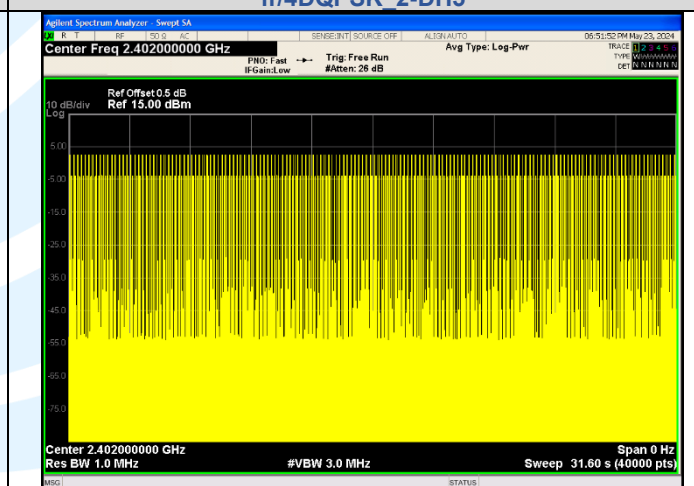
Pulse Width
 $\pi/4$ DQPSK 2-DH5



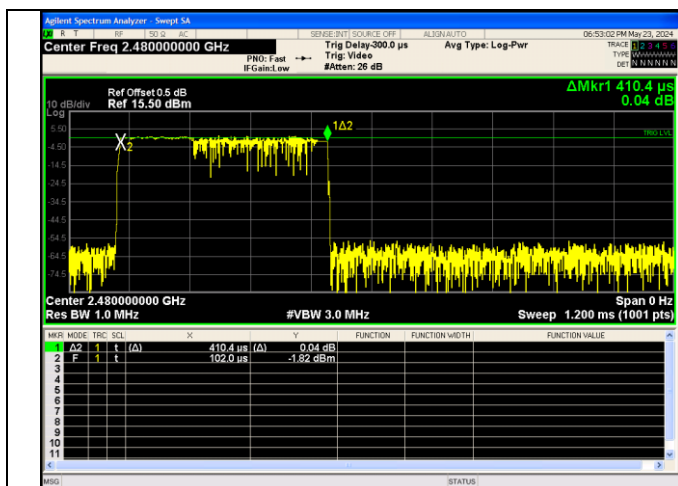
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH5



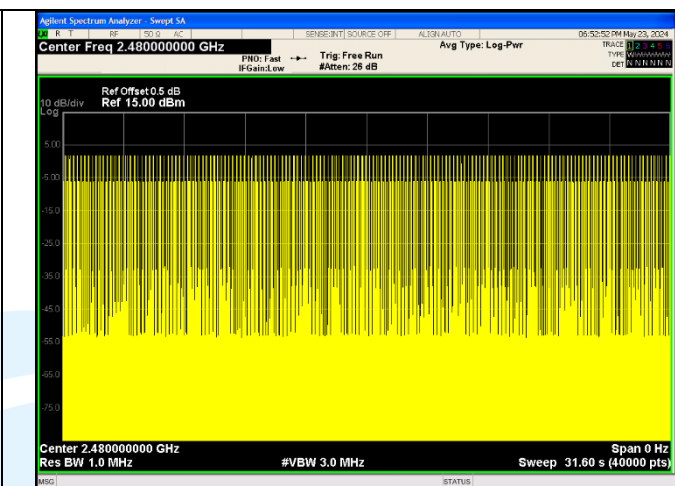
Pulse Width
8DPSK 3-DH1



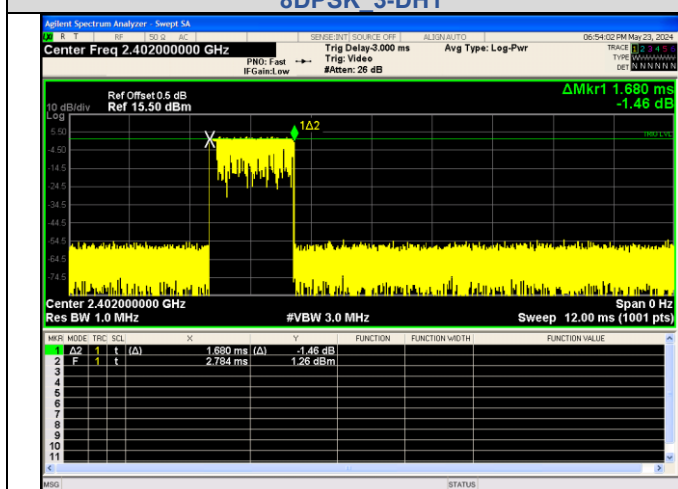
Number of Pulses in 31.6 seconds
8DPSK 3-DH1



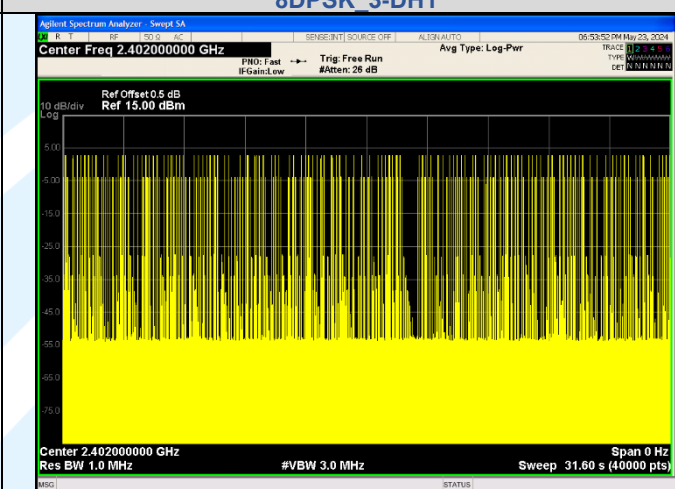
Pulse Width
8DPSK 3-DH1



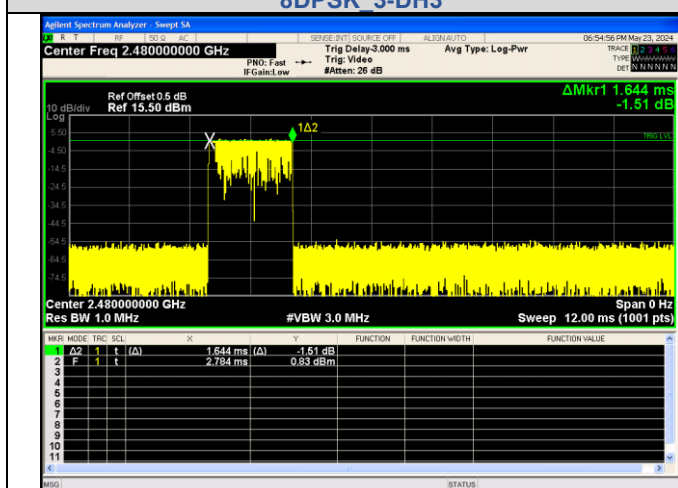
Number of Pulses in 31.6 seconds
8DPSK 3-DH1



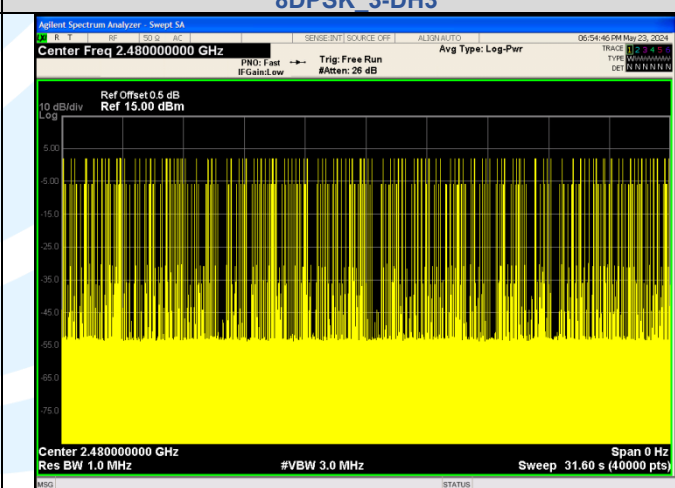
Pulse Width
8DPSK 3-DH3



Number of Pulses in 31.6 seconds
8DPSK 3-DH3



Pulse Width
8DPSK 3-DH3



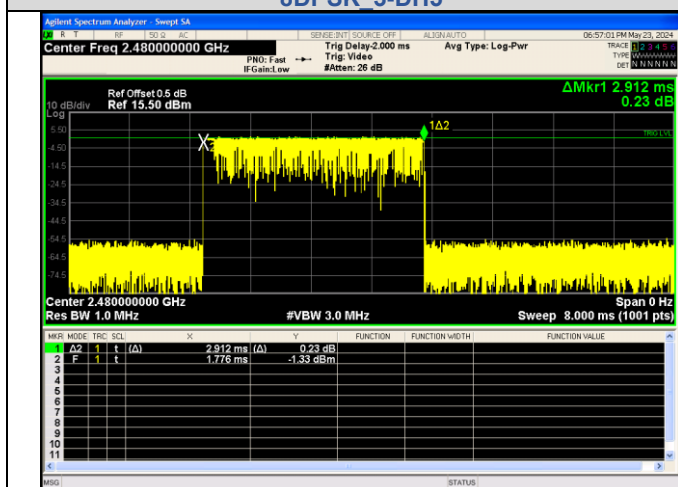
Number of Pulses in 31.6 seconds
8DPSK 3-DH3



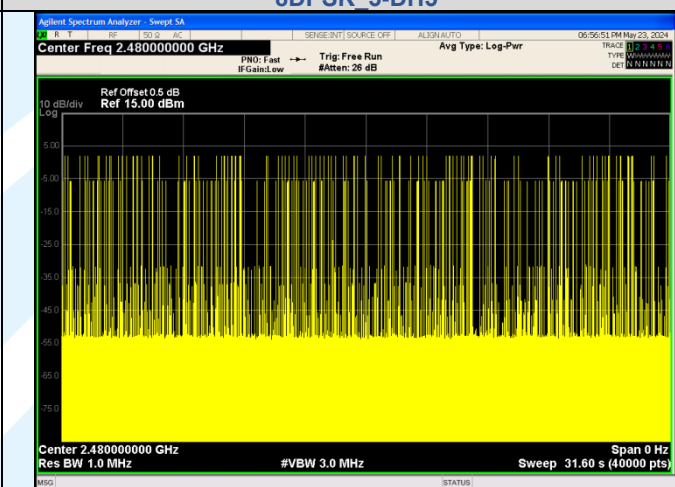
Pulse Width
8DPSK_3-DH5



Number of Pulses in 31.6 seconds
8DPSK_3-DH5



Pulse Width
8DPSK_3-DH5



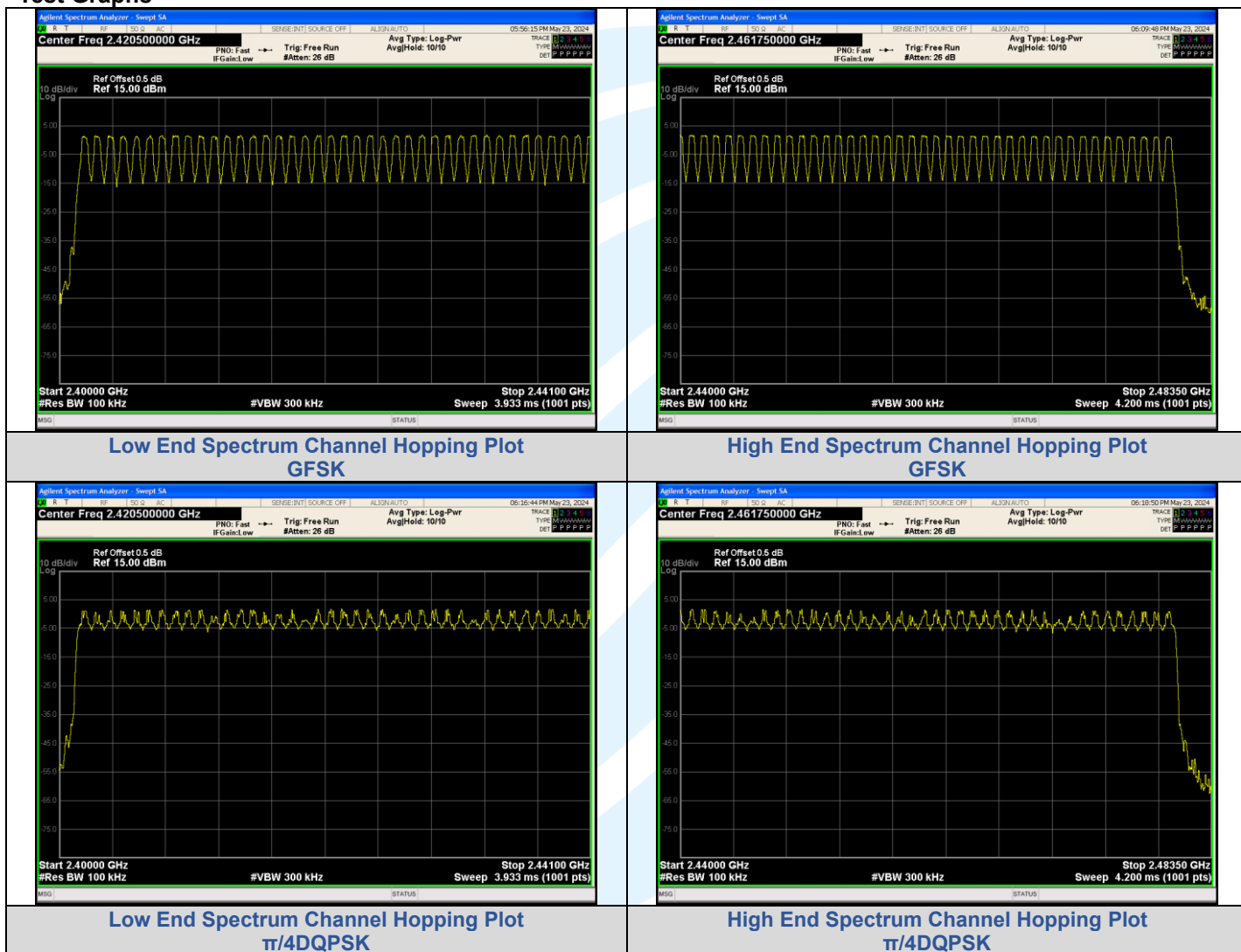
Number of Pulses in 31.6 seconds
8DPSK_3-DH5

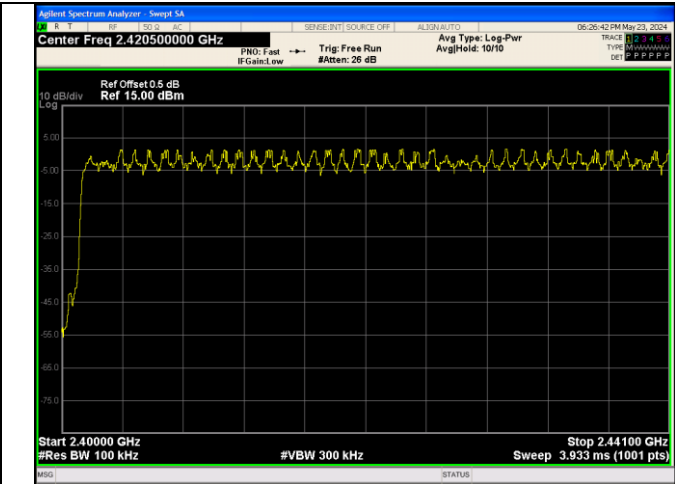
A.6 NUMBER OF HOPPING CHANNEL

Test Result

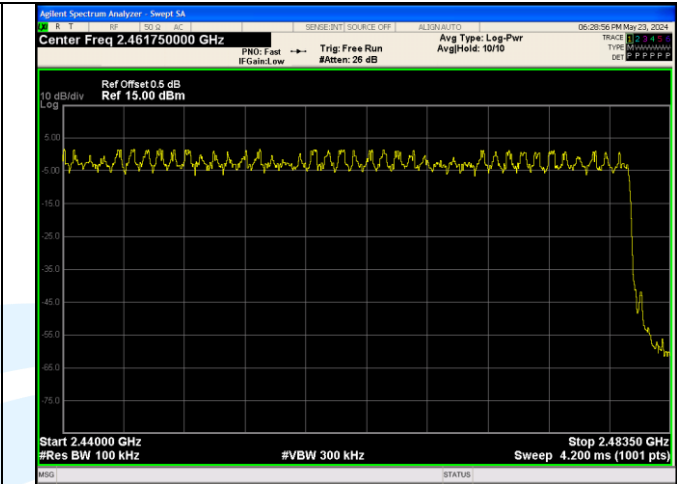
Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH5	79	15	PASS
$\pi/4$ DQPSK	2-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS

Test Graphs





Low End Spectrum Channel Hopping Plot
8DPSK



High End Spectrum Channel Hopping Plot
8DPSK

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China
Tel: +86-755-28230888 Fax: +86-755-28230886 E-mail: info@uttlab.com <http://www.uttlab.com>
UTTR-RF-FCCPART15.247-V1.1

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
