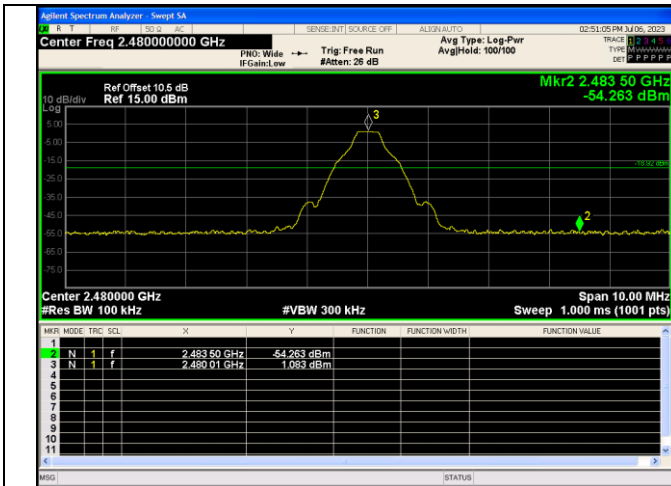
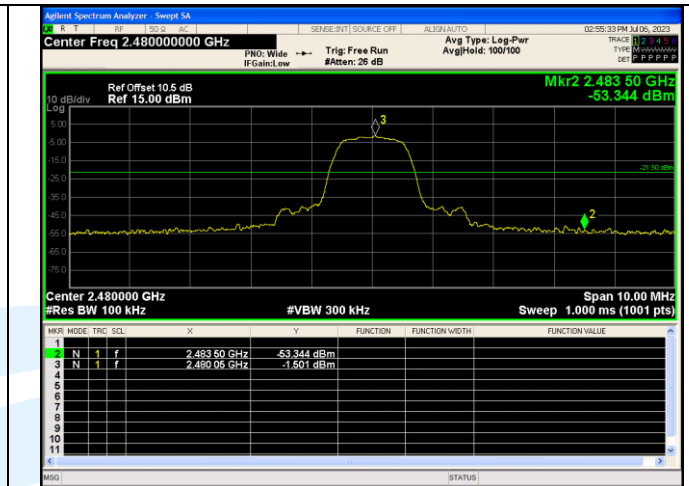
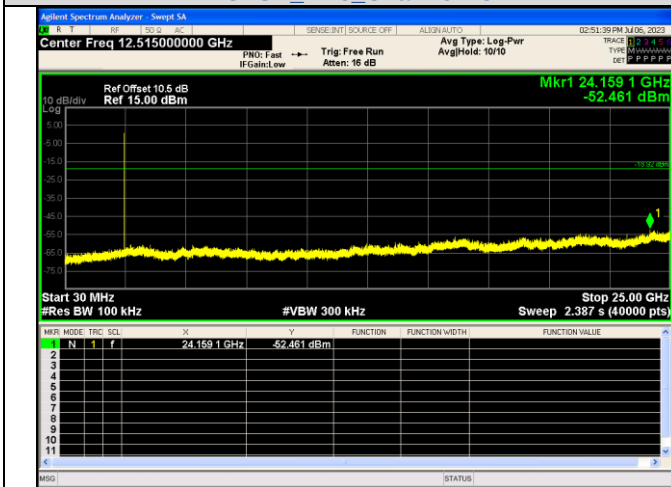




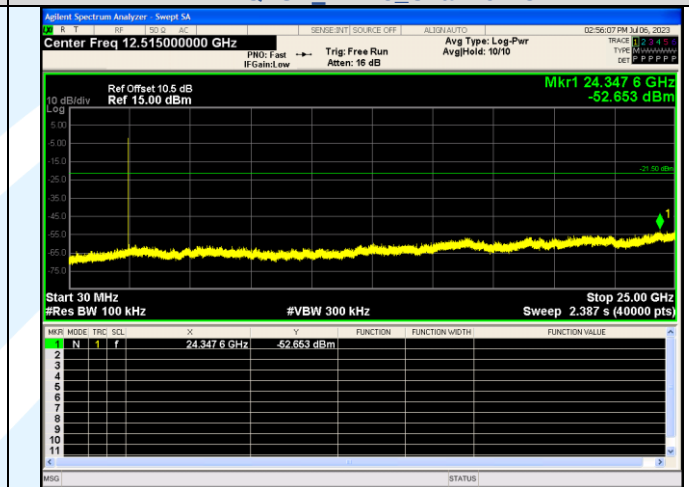
Out Of Band Emission
GFSK_DH5_Channel 78



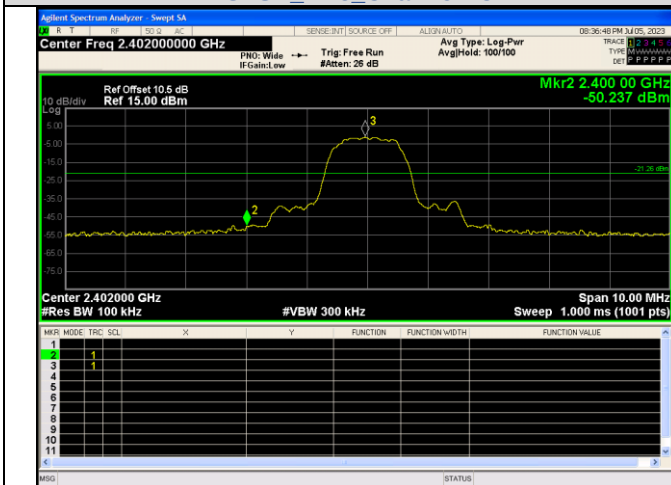
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



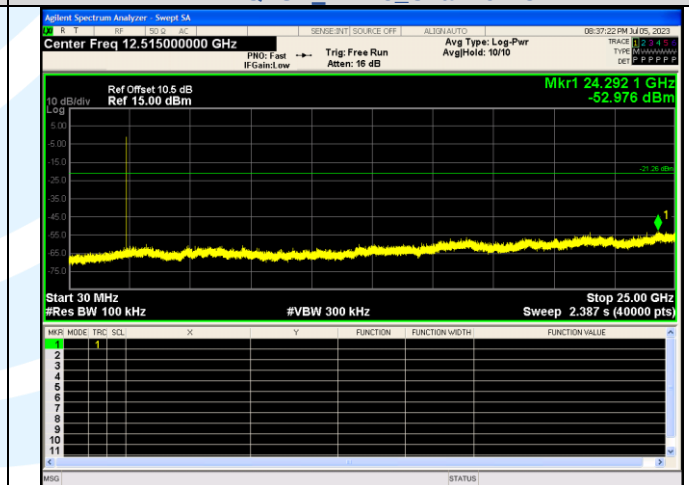
Spurious Emission
GFSK_DH5_Channel 78



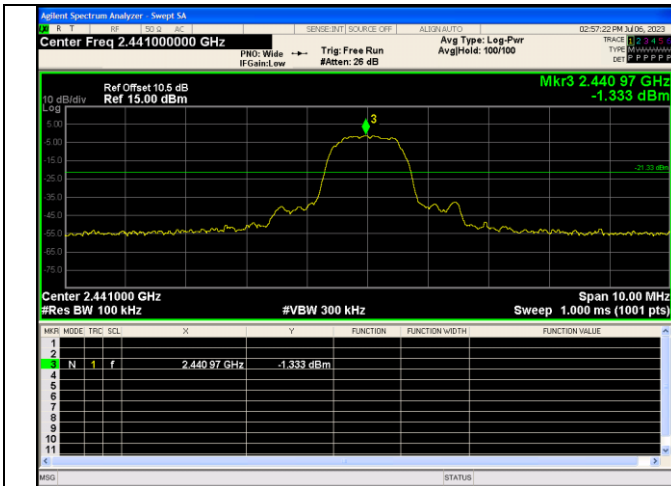
Spurious Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



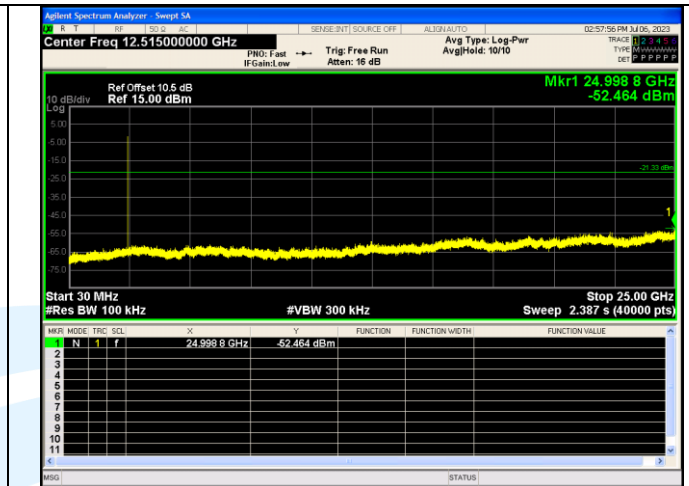
Out Of Band Emission
8DPSK_3-DH5_Channel 0



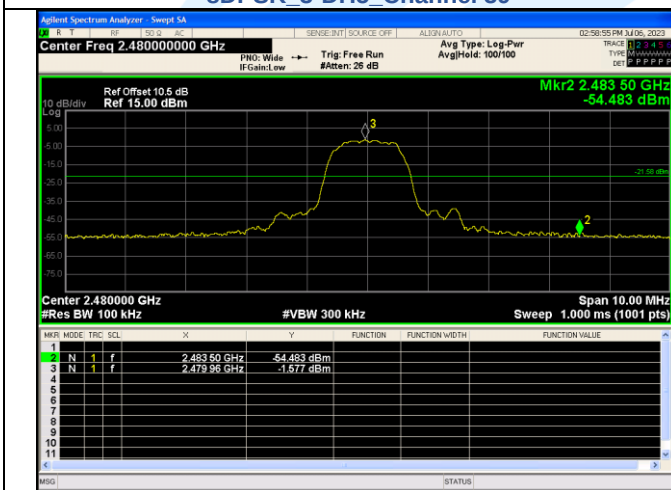
Spurious Emission
8DPSK_3-DH5_Channel 0



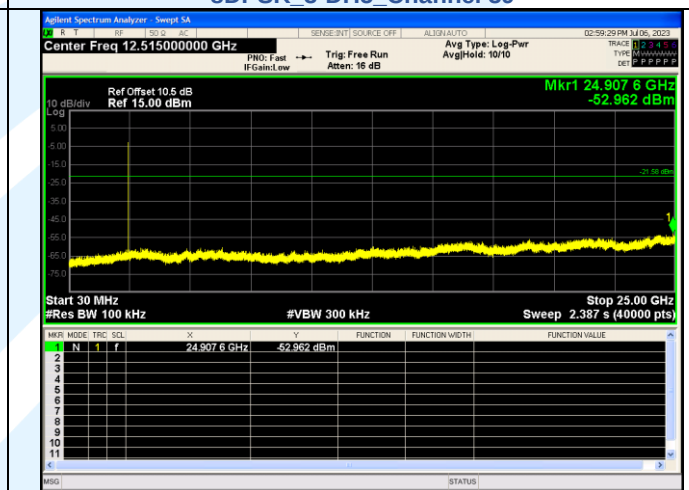
Out Of Band Emission
8DPSK_3-DH5_Channel 39



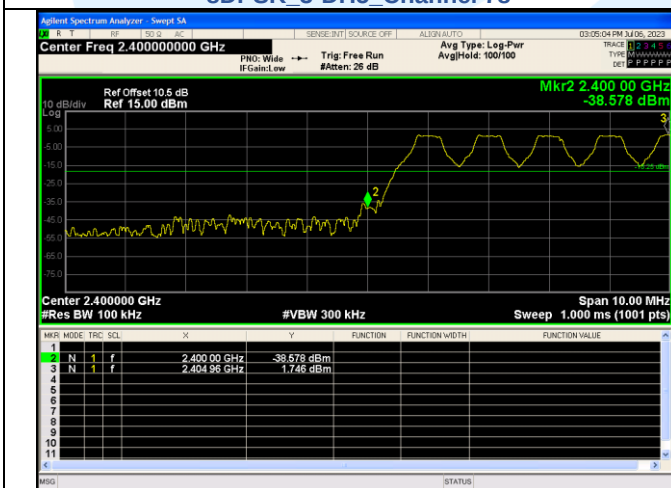
Spurious Emissions
8DPSK_3-DH5_Channel 39



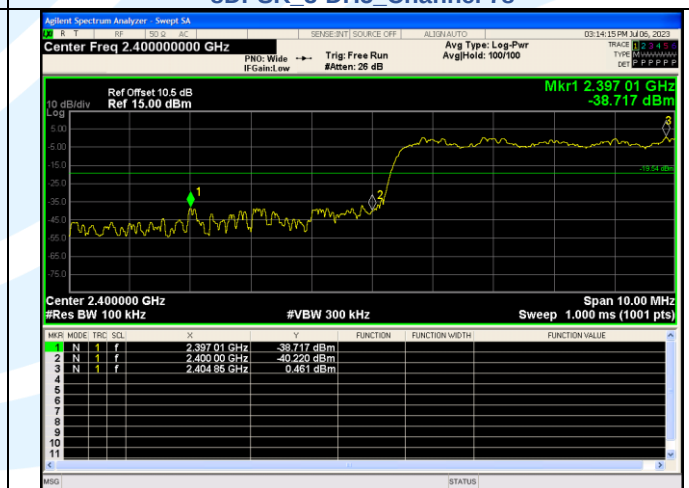
Out Of Band Emission
8DPSK_3-DH5_Channel 78



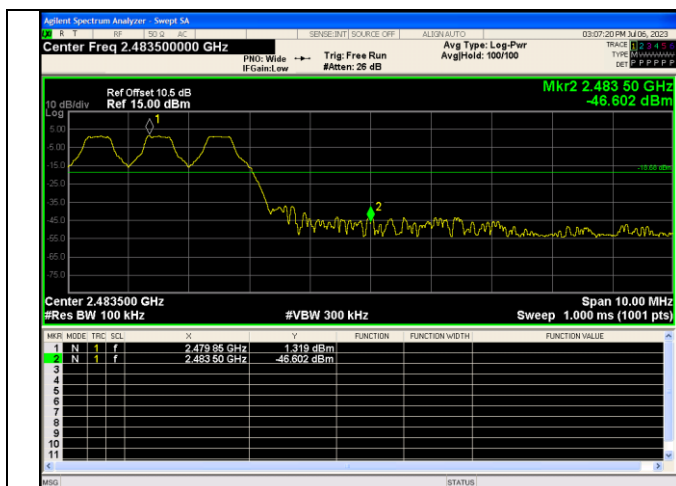
Spurious Emission
8DPSK_3-DH5_Channel 78



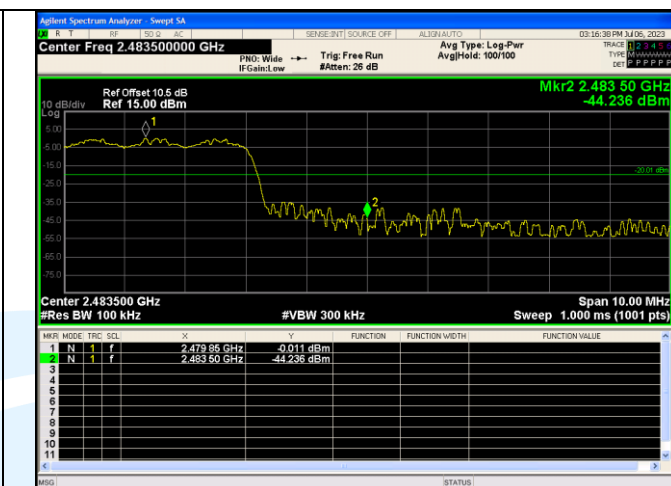
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



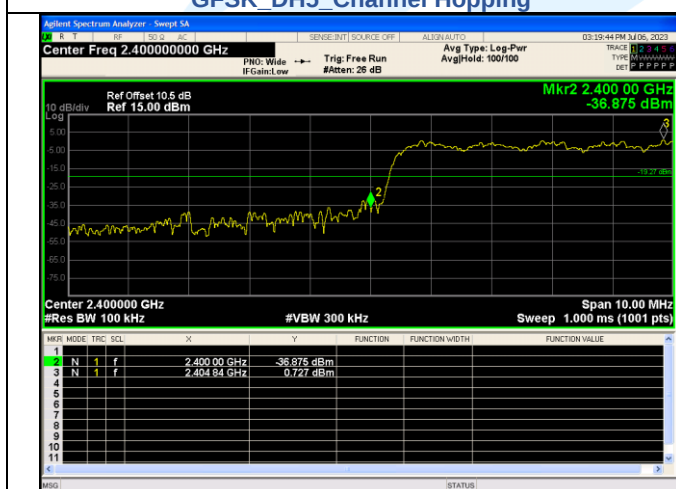
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



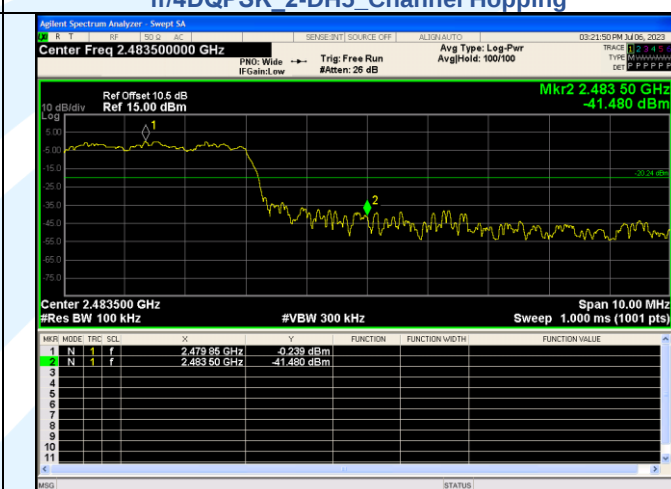
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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



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

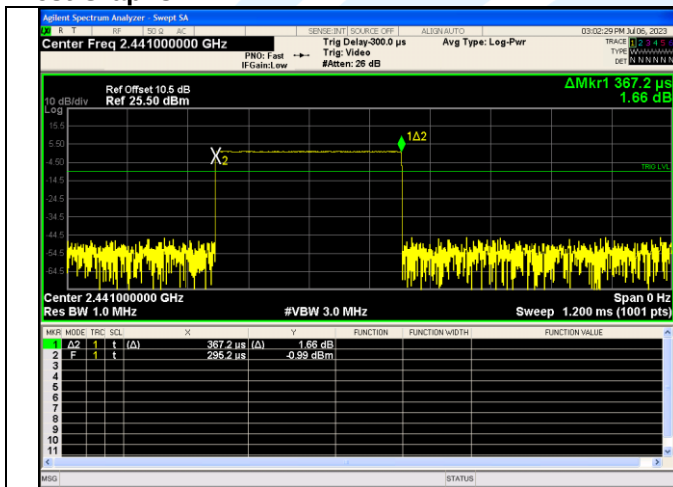
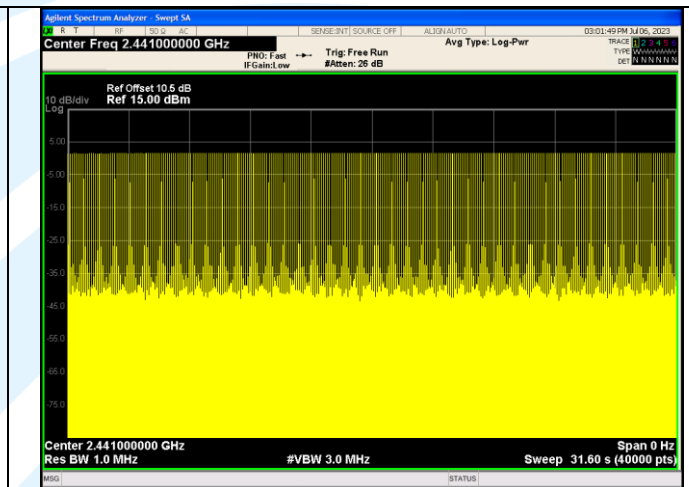
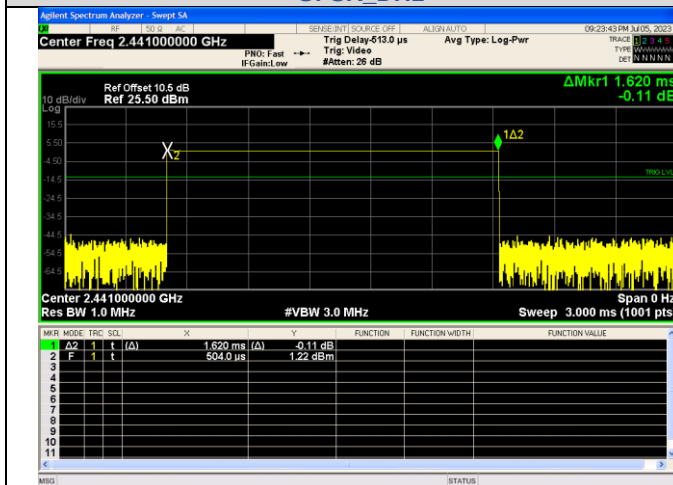
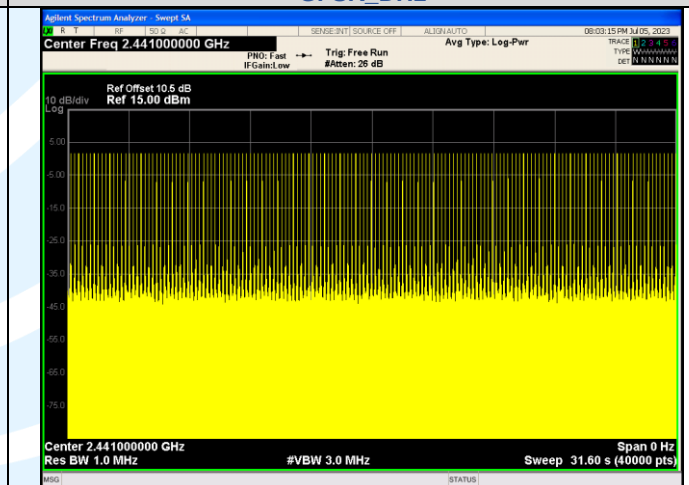


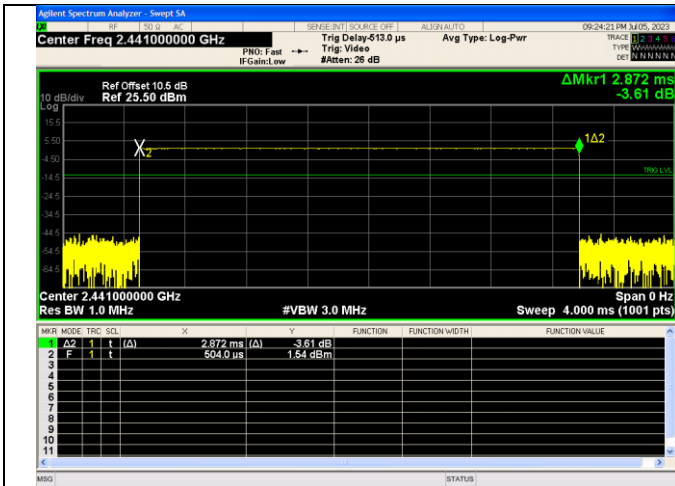
Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping

A.5 DWELL TIME

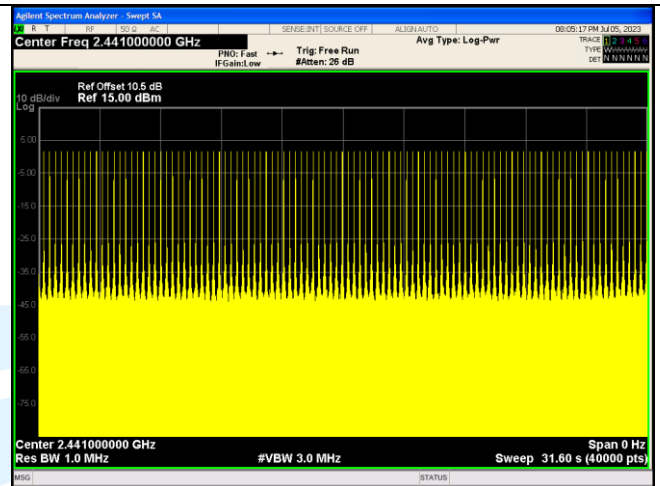
Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	CH39 (2441MHz)	0.3672	311	114.2	< 400	PASS
	DH3		1.620	156	252.72		PASS
	DH5		2.872	104	298.69		PASS
π /4DQPSK	2-DH1		0.3756	312	117.19		PASS
	2-DH3		1.626	156	253.66		PASS
	2-DH5		2.872	104	298.69		PASS
8DPSK	3-DH1		0.3756	312	117.19		PASS
	3-DH3		1.626	156	253.66		PASS
	3-DH5		2.880	104	299.52		PASS

Test Graphs

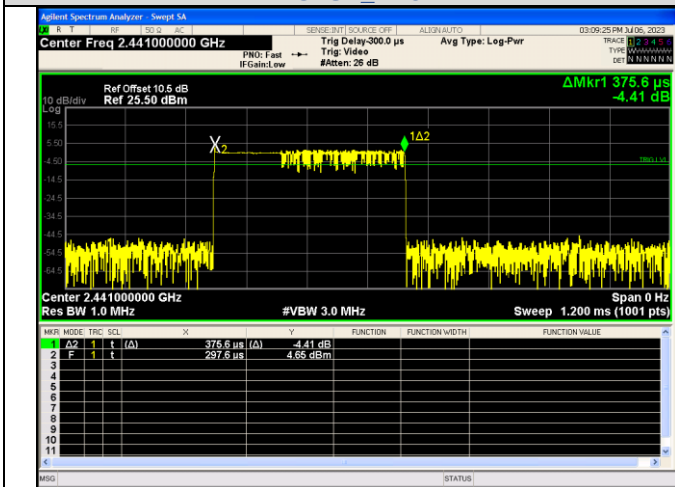
Pulse Width
GFSK_DH1Number of Pulses in 31.6 seconds
GFSK_DH1Pulse Width
GFSK_DH3Number of Pulses in 31.6 seconds
GFSK_DH3



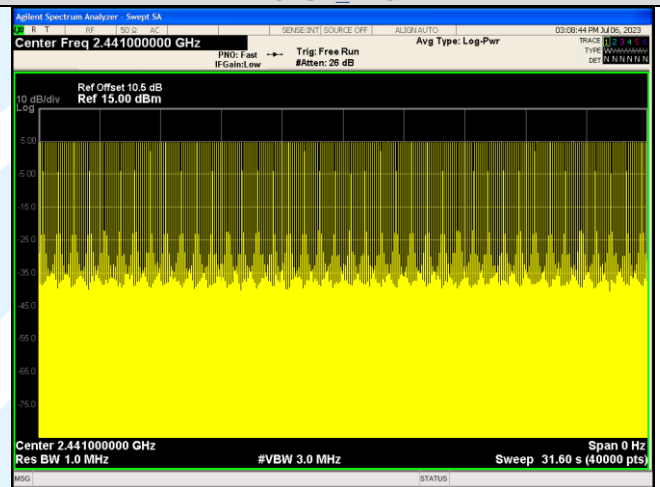
Pulse Width
GFSK_DH5



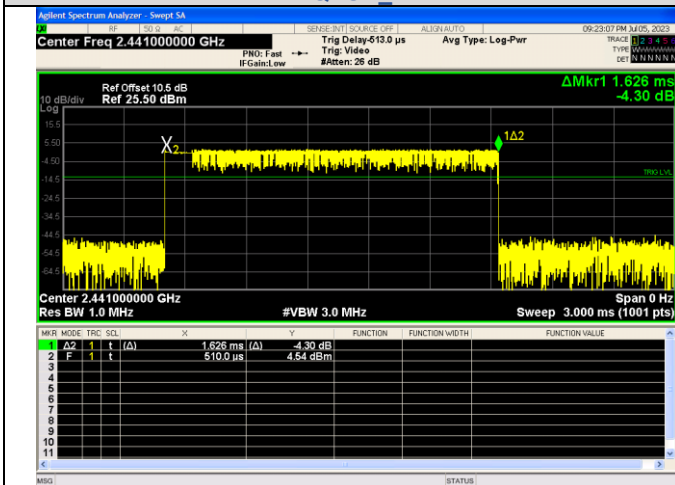
Number of Pulses in 31.6 seconds
GFSK_DH5



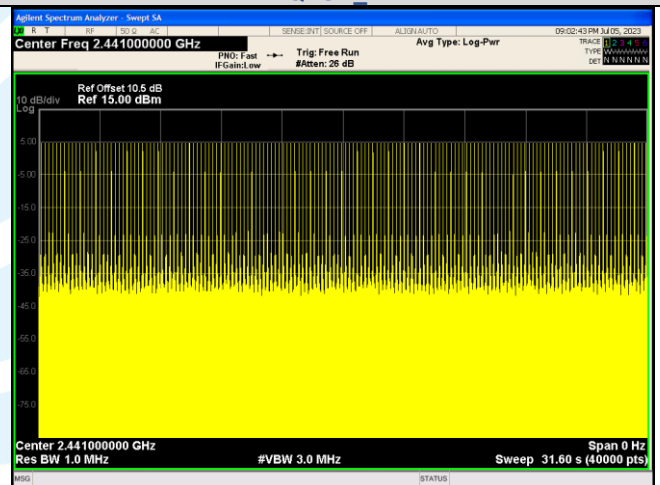
Pulse Width
 $\pi/4$ DQPSK_2-DH1



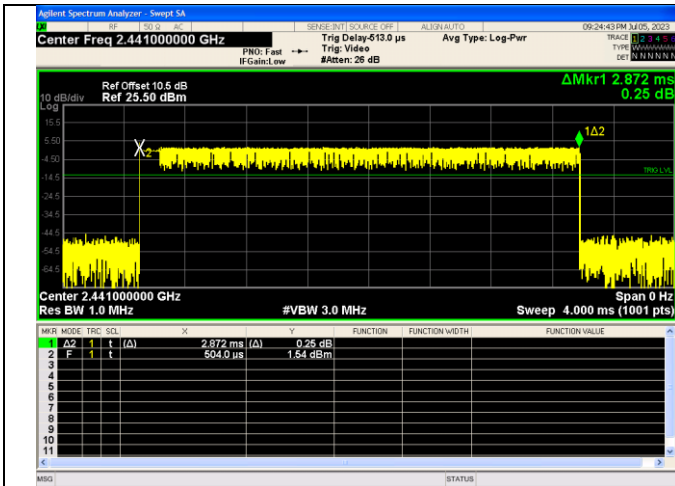
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH1



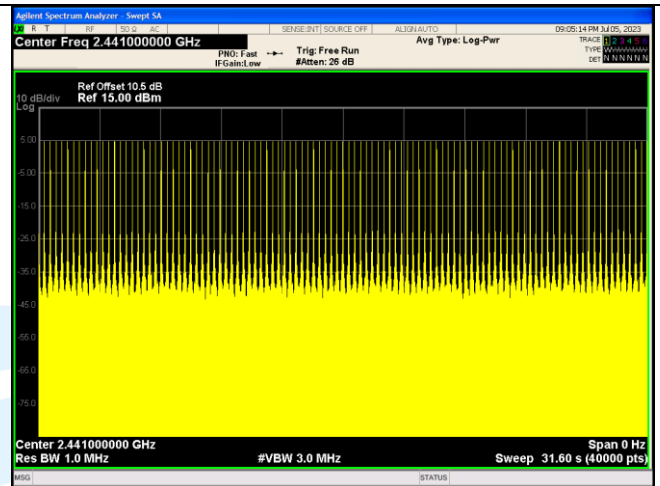
Pulse Width
 $\pi/4$ DQPSK_2-DH3



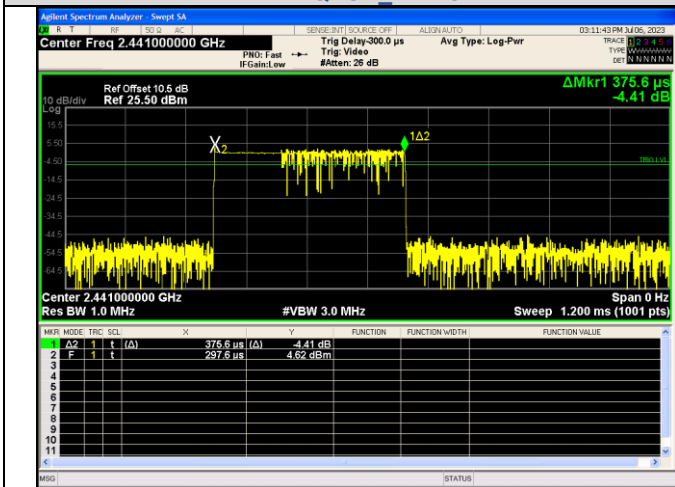
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH3



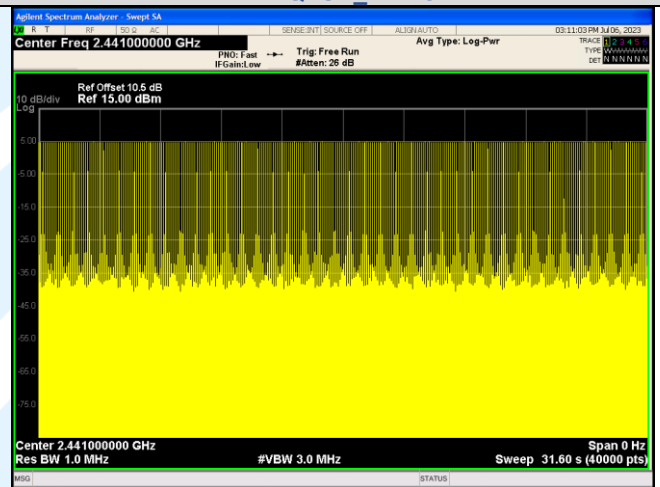
Pulse Width
 $\pi/4$ DQPSK_2-DH5



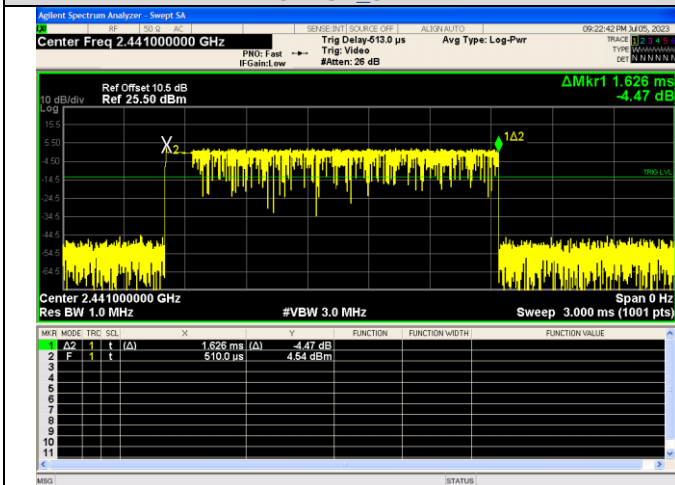
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



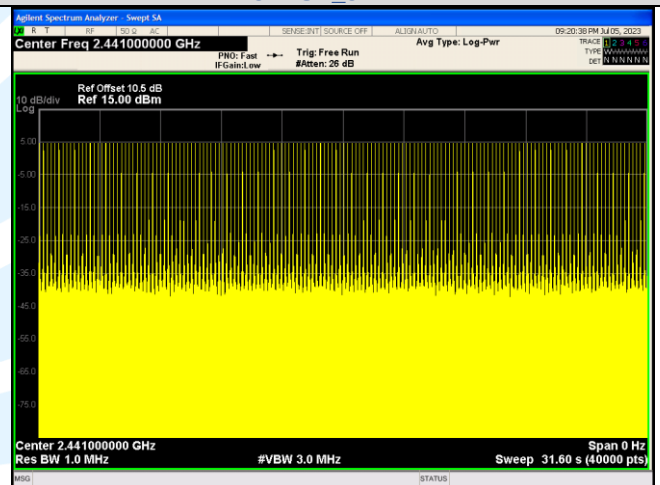
Pulse Width
8DPSK_3-DH1



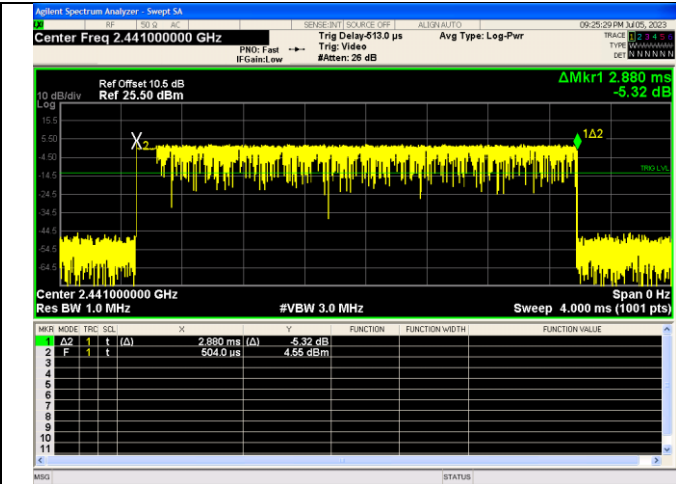
Number of Pulses in 31.6 seconds
8DPSK_3-DH1



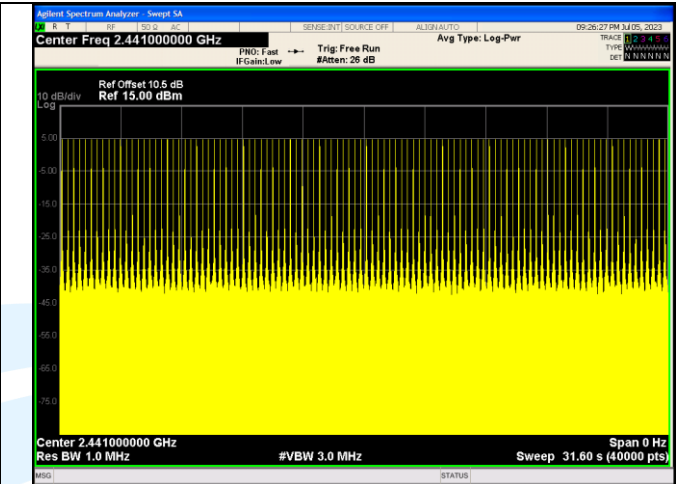
Pulse Width
8DPSK_3-DH3



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

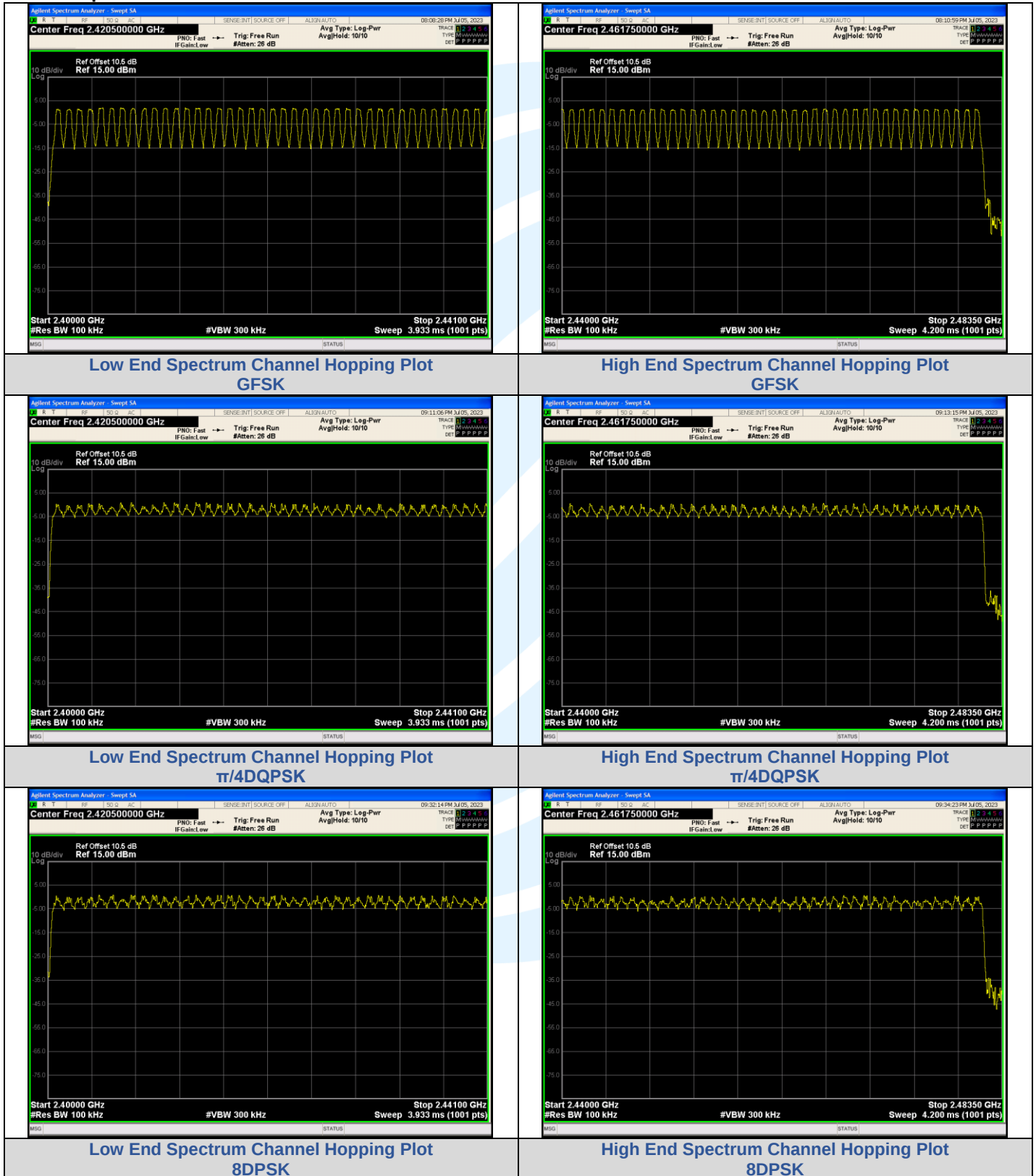
Shenzhen UnionTrust Quality and Technology Co., Ltd.

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-RSS247-V1.1

A.6 NUMBER OF HOPPING CHANNEL

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



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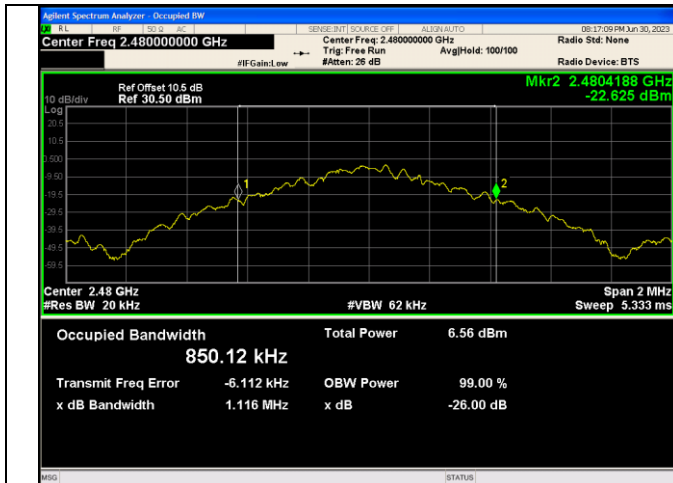
APPENDIX B RF TEST DATA_FOR RIGHT EAR

B.1 99% BANDWIDTH

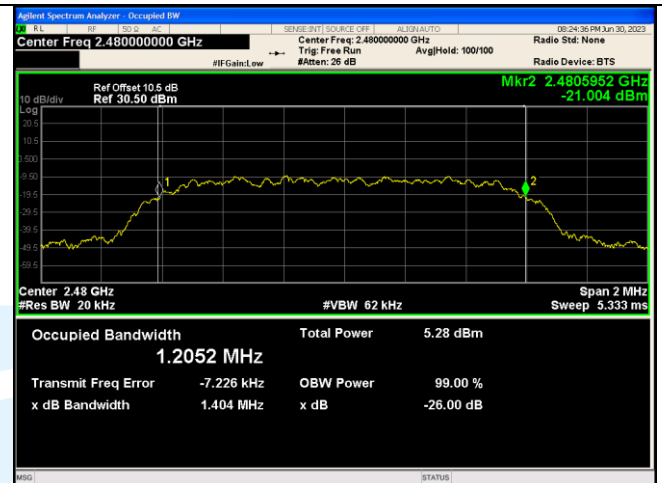
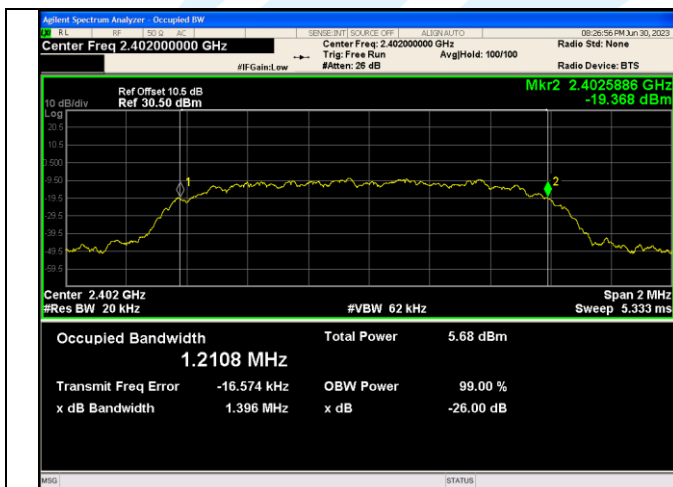
Modulation	Channel	99% BW (MHz)
GFSK	0	0.85536
	39	0.85603
	78	0.85012
$\pi/4$ DQPSK	0	1.2030
	39	1.2038
	78	1.2052
8DPSK	0	1.2108
	39	1.2104
	78	1.2096

Test Graphs

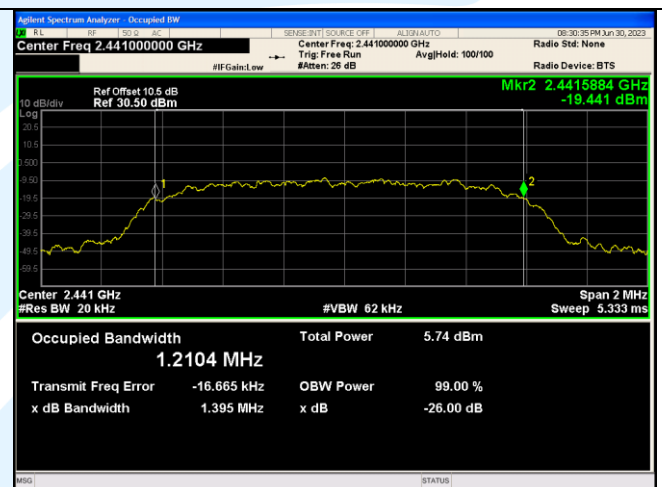




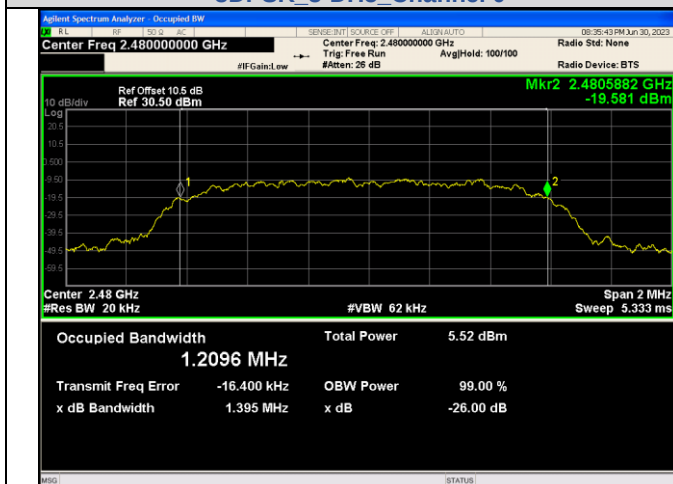
GFSK_DH5_Channel 78

 $\pi/4$ DQPSK_2-DH5_Channel 78

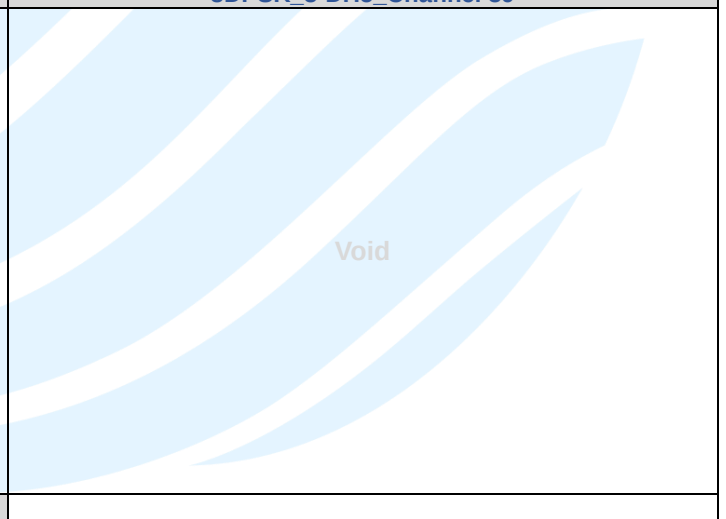
8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

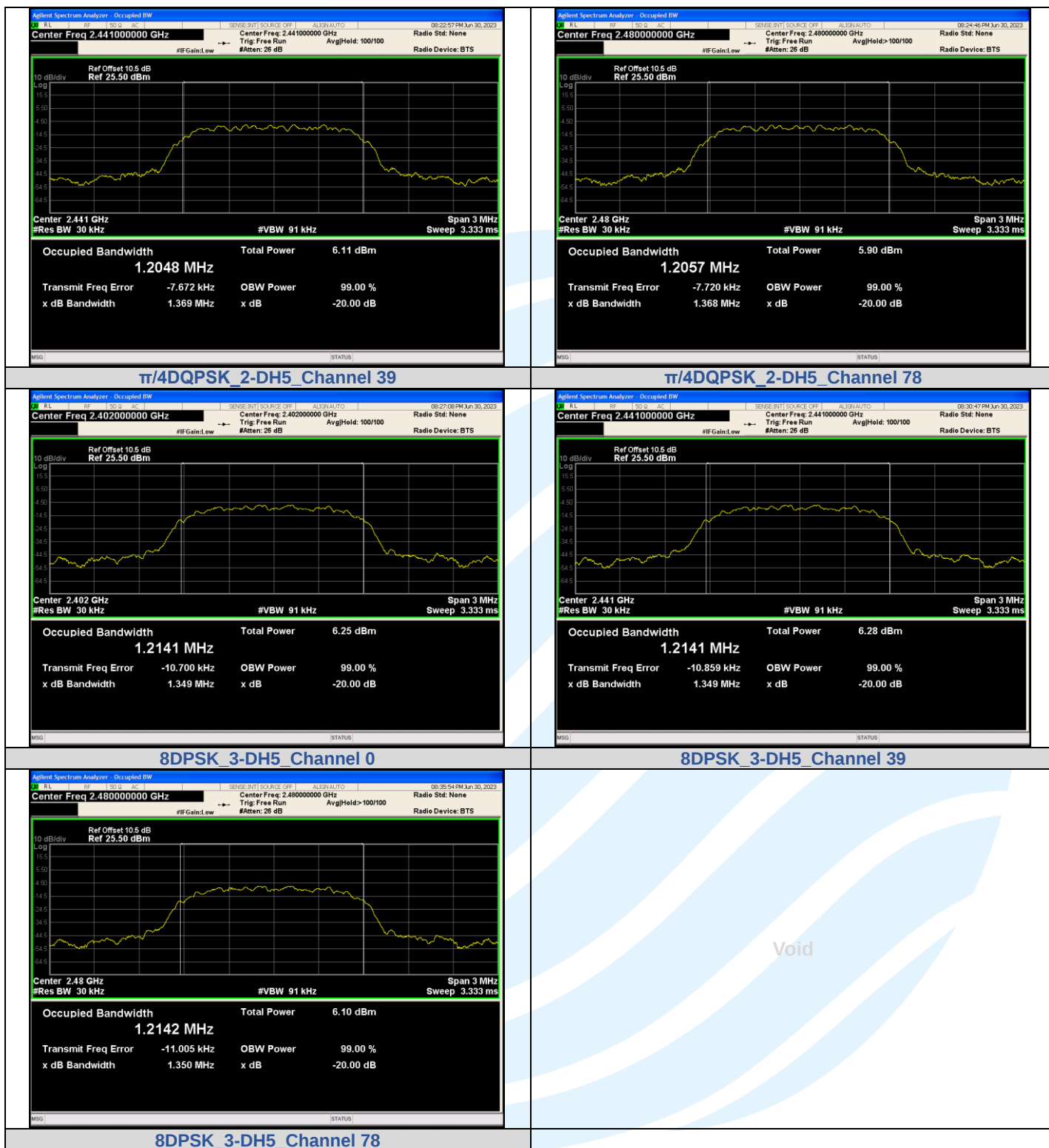


B.2 20DB BANDWIDTH

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9520
	39	2441 MHz	0.9532
	78	2480 MHz	0.9494
$\pi/4$ DQPSK	0	2402 MHz	1.369
	39	2441 MHz	1.369
	78	2480 MHz	1.368
8DPSK	0	2402 MHz	1.349
	39	2441 MHz	1.349
	78	2480 MHz	1.350

Test Graphs

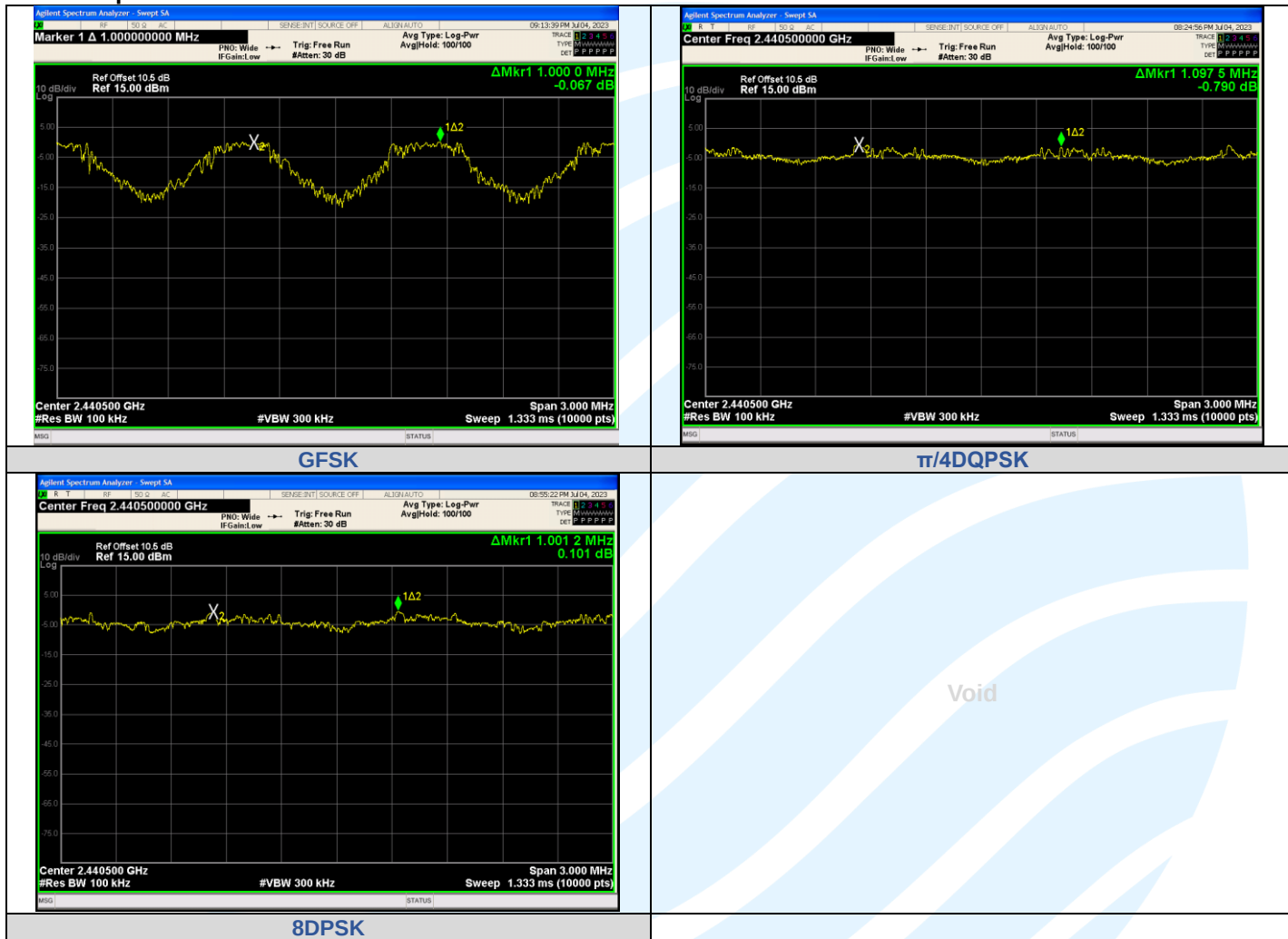




B.3 CARRIER FREQUENCIES SEPARATION

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.0612	2441.0612	1.0000	0.6329	PASS
$\pi/4$ DQPSK	2-DH5	2439.8353	2440.9328	1.0975	0.9120	PASS
8DPSK	3-DH5	2439.8305	2440.8317	1.0012	0.8993	PASS

Test Graphs



B.4 CONDUCTED OUT OF BAND EMISSION

Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-53.581	-19.22	-34.361	PASS
			2398.38	-52.937	-19.22	-33.717	PASS
			24917.6	-53.373	-19.22	-34.153	PASS
		39	24946.9	-53.168	-19.32	-33.848	PASS
		78	2483.50	-55.120	-19.59	-36	PASS
			24260.2	-53.119	-19.59	-33.529	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-52.135	-22.13	-30	PASS
			24359.5	-52.999	-22.13	-30.869	PASS
		39	24922.0	-52.204	-22.14	-30.064	PASS
			2483.50	-54.312	-22.38	-32	PASS
		78	24267.1	-52.355	-22.38	-29.975	PASS
			2483.50	-54.312	-22.38	-32	PASS
8DPSK	3-DH5	0	2400.00	-51.531	-22.02	-30	PASS
			24695.4	-53.007	-22.02	-30.987	PASS
		39	24181.6	-52.641	-22.01	-30.631	PASS
			2483.50	-54.641	-22.21	-32	PASS
		78	24751.5	-52.885	-22.21	-30.675	PASS
			2483.50	-52.885	-22.21	-30.675	PASS

Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-38.373	-18.87	-19.503	PASS
			2483.50	-48.677	-19.62	-29.057	PASS
π/4DQPSK	2-DH5		2398.02	-39.565	-20.23	-19.335	PASS
			2400.00	-40.544	-20.23	-20.314	PASS
			2483.50	-47.223	-20.63	-26.593	PASS
8DPSK	3-DH5		2397.18	-39.092	-20.36	-18.732	PASS
			2400.00	-40.528	-20.36	-20.168	PASS
			2483.50	-42.386	-20.6	-21.786	PASS

Test Graphs

