



Keyway Testing Technology (Guangdong) Co., Ltd
Room 2102, Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park,
No.30 of Tangxia District, Dongshen Road, Tangxia Town, Dongguan, 523710,
People's Republic of China

E.U.T:	iLoud Sub
Model Number:	IK208
Trade Name:	IK
Sample Number:	33000251638
Date of Receipt:	Aug. 28, 2025
Date of Test:	Aug. 28 ~ Sep. 24, 2025
FCC ID:	2AAYPIK208
IC:	11298A-IK208



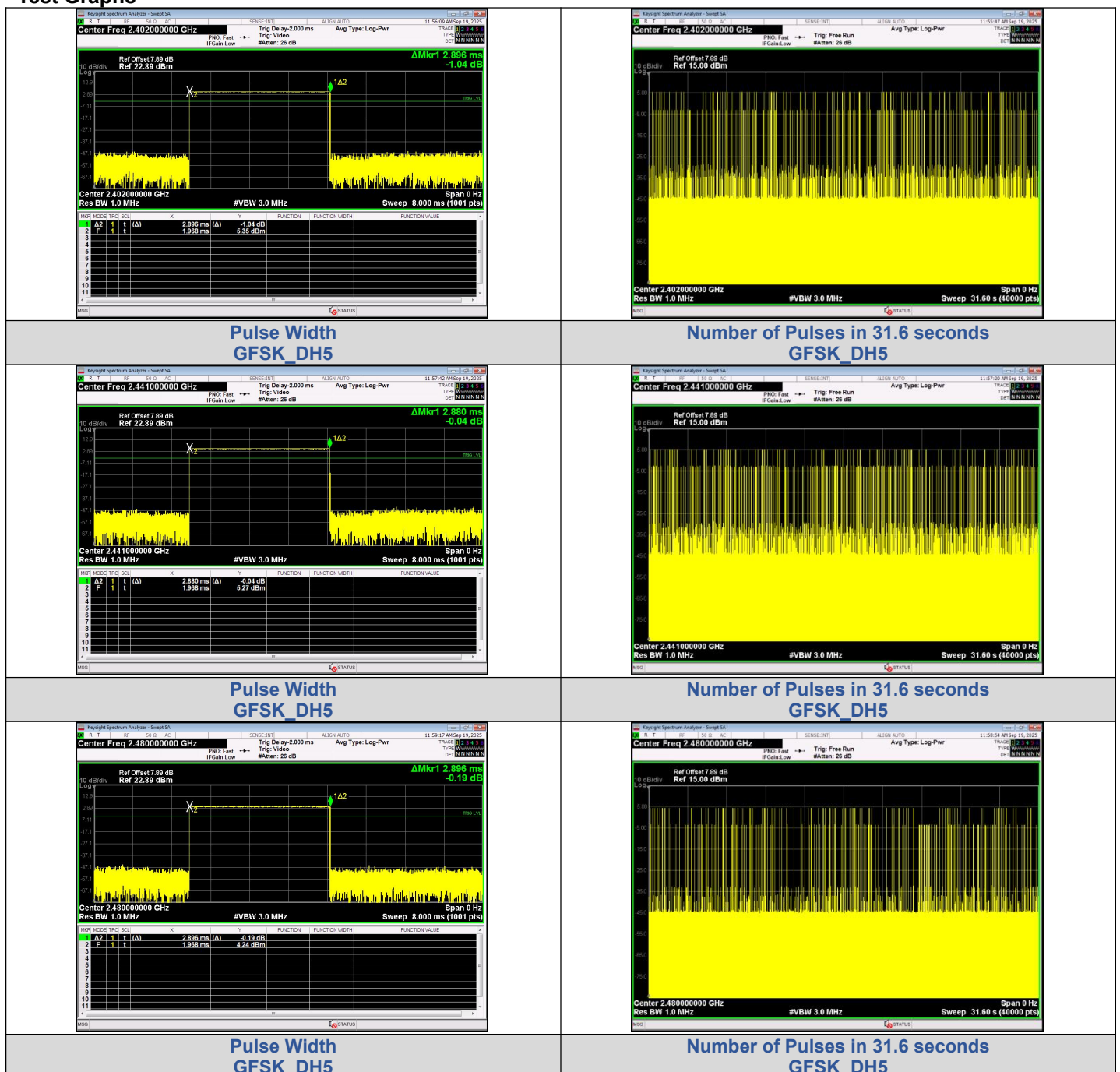
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A.1 DWELL TIME

Test Result

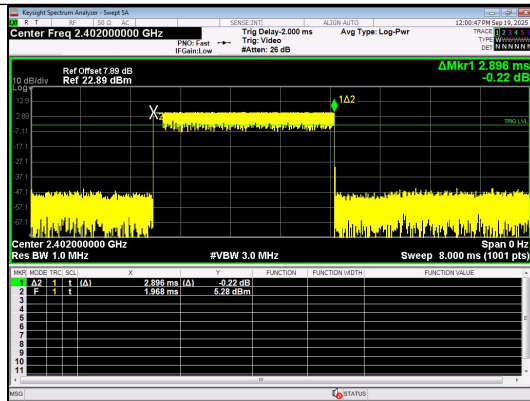
Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.896	97	280.91	< 400	PASS
	DH5		2.880	100	288.0		PASS
	DH5		2.896	103	298.29		PASS
$\pi/4$ DQPSK	2-DH5		2.896	112	324.35		PASS
	2-DH5		2.896	120	347.52		PASS
	2-DH5		2.896	112	324.35		PASS
8DPSK	3-DH5		2.896	95	275.12		PASS
	3-DH5		2.896	112	324.35		PASS
	3-DH5		2.896	95	275.12		PASS

Test Graphs





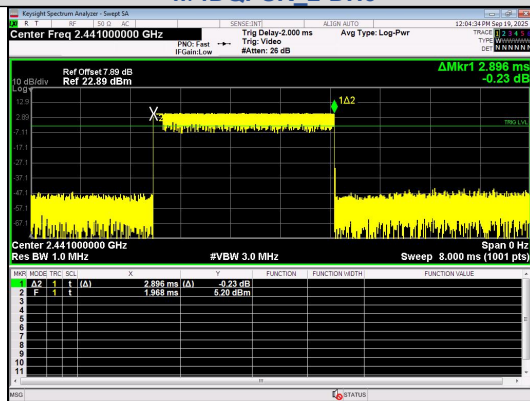
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Pulse Width
 $\pi/4$ DQPSK_2-DH5



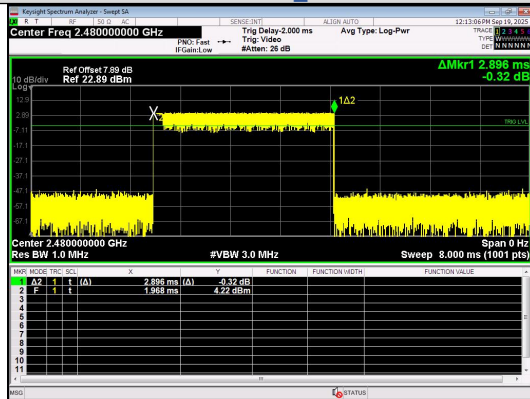
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



Pulse Width
 $\pi/4$ DQPSK_2-DH5



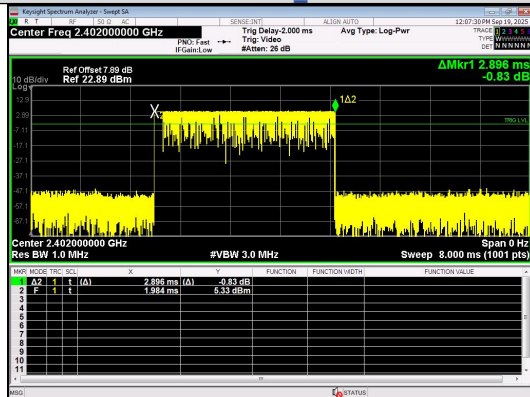
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



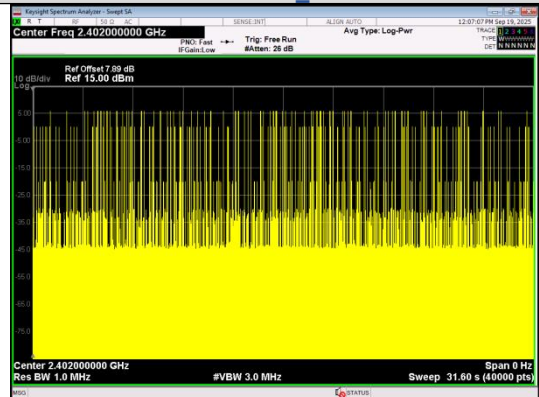
Pulse Width
 $\pi/4$ DQPSK_2-DH5



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



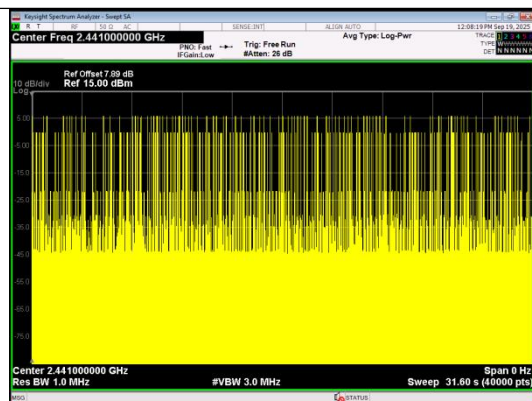
Pulse Width
8DPSK_3-DH5



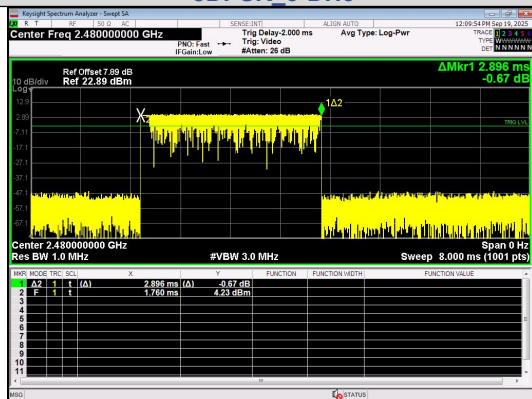
Number of Pulses in 31.6 seconds
8DPSK_3-DH5



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



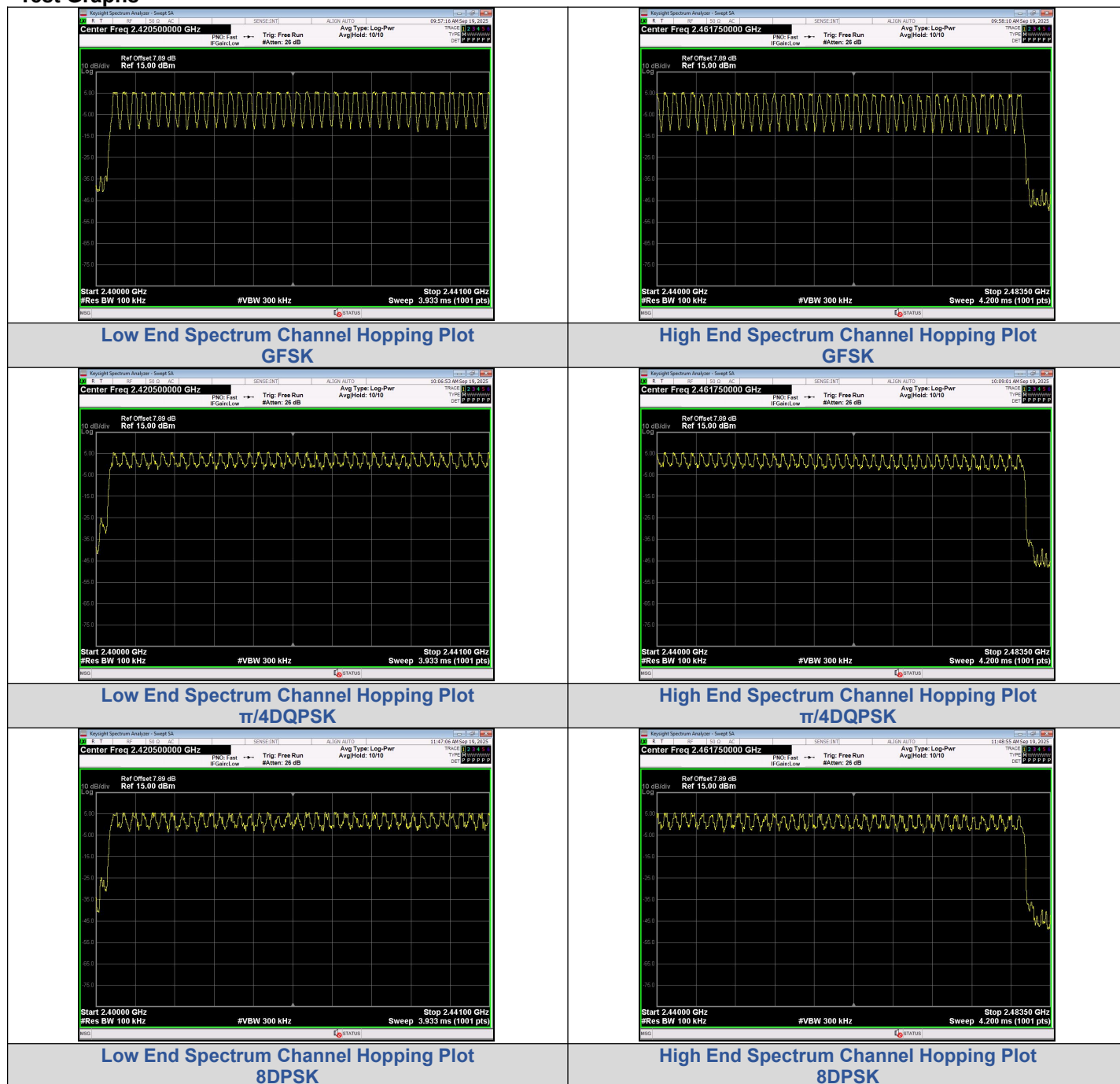
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A.2 NUMBER OF HOPPING CHANNEL

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

Test Graphs





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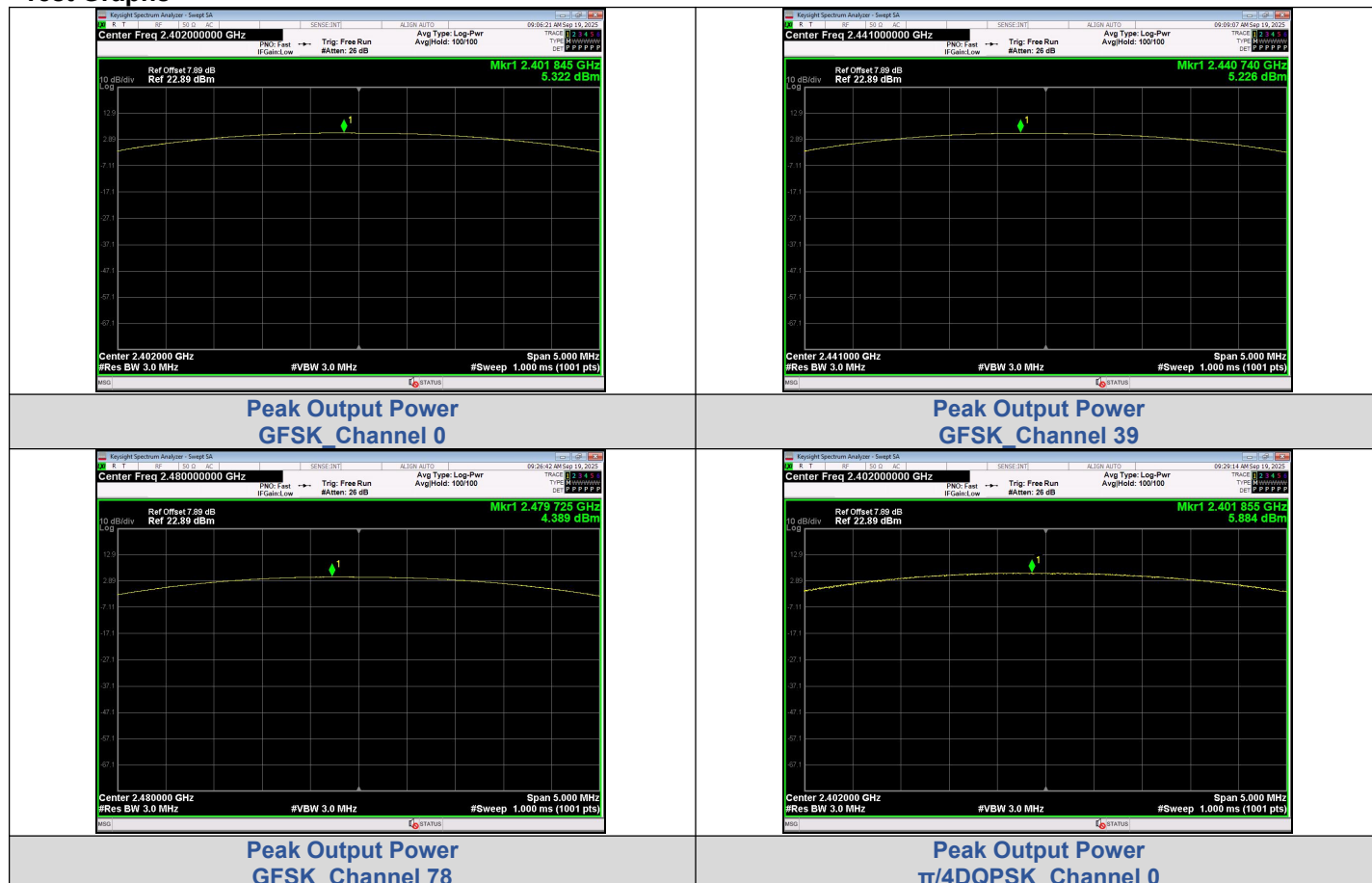
A.3 CONDUCTED PEAK OUTPUT POWER

Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
GFSK	DH1	0	5.32	3.40	None	≤30	PASS
		39	5.23	3.33	None		PASS
		78	4.39	2.75	None		PASS
$\pi/4$ DQPSK	2-DH1	0	5.88	3.87	None	≤30	PASS
		39	5.94	3.93	None		PASS
		78	5.10	3.24	None		PASS
8DPSK	3-DH1	0	6.13	4.10	None	≤30	PASS
		39	6.28	4.25	None		PASS
		78	5.59	3.62	None		PASS

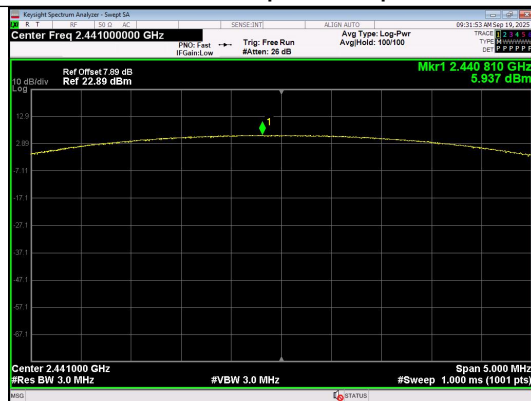
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	ISED EIRP (dBm)	ISED EIRP Limit (dBm)	Max. Avg. Power (dBm)	Result
GFSK	DH1	0	5.32	≤30	8.62	≤36.02	None	PASS
		39	5.23	≤30	8.53	≤36.02	None	PASS
		78	4.39	≤30	7.69	≤36.02	None	PASS
$\pi/4$ DQPSK	2-DH1	0	5.88	≤30	9.18	≤36.02	None	PASS
		39	5.94	≤30	9.24	≤36.02	None	PASS
		78	5.10	≤30	8.4	≤36.02	None	PASS
8DPSK	3-DH1	0	6.13	≤30	9.43	≤36.02	None	PASS
		39	6.28	≤30	9.58	≤36.02	None	PASS
		78	5.59	≤30	8.89	≤36.02	None	PASS

Test Graphs

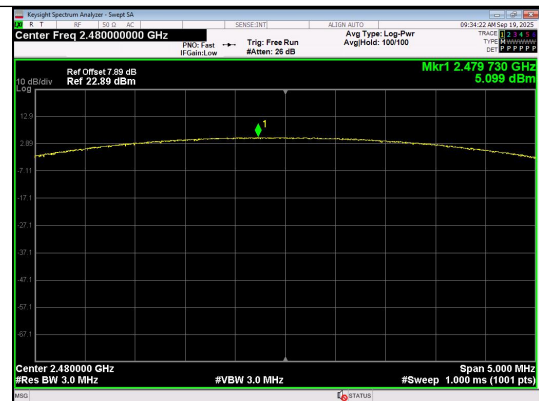




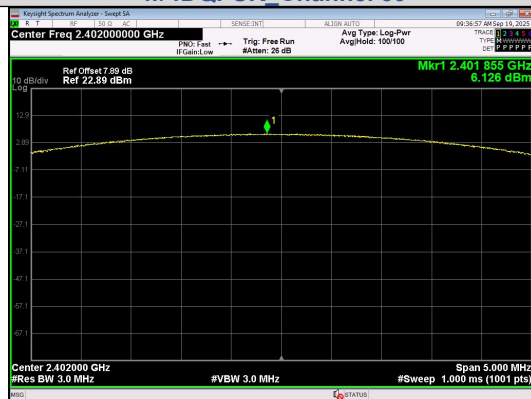
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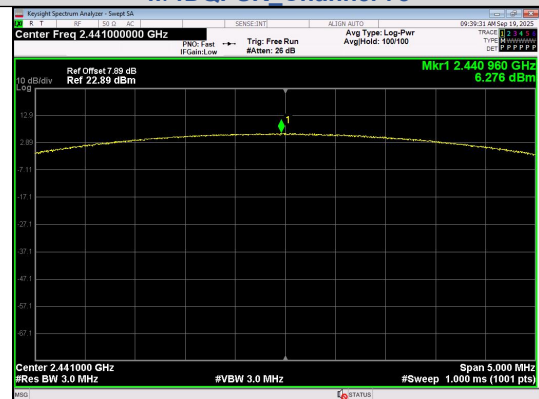
**Peak Output Power
 $\pi/4$ DQPSK_Channel 39**



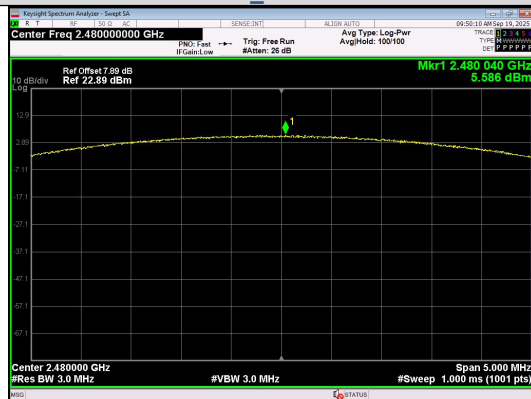
**Peak Output Power
 $\pi/4$ DQPSK_Channel 78**



**Peak Output Power
8DPSK_Channel 0**



**Peak Output Power
8DPSK_Channel 39**



**Peak Output Power
8DPSK_Channel 78**



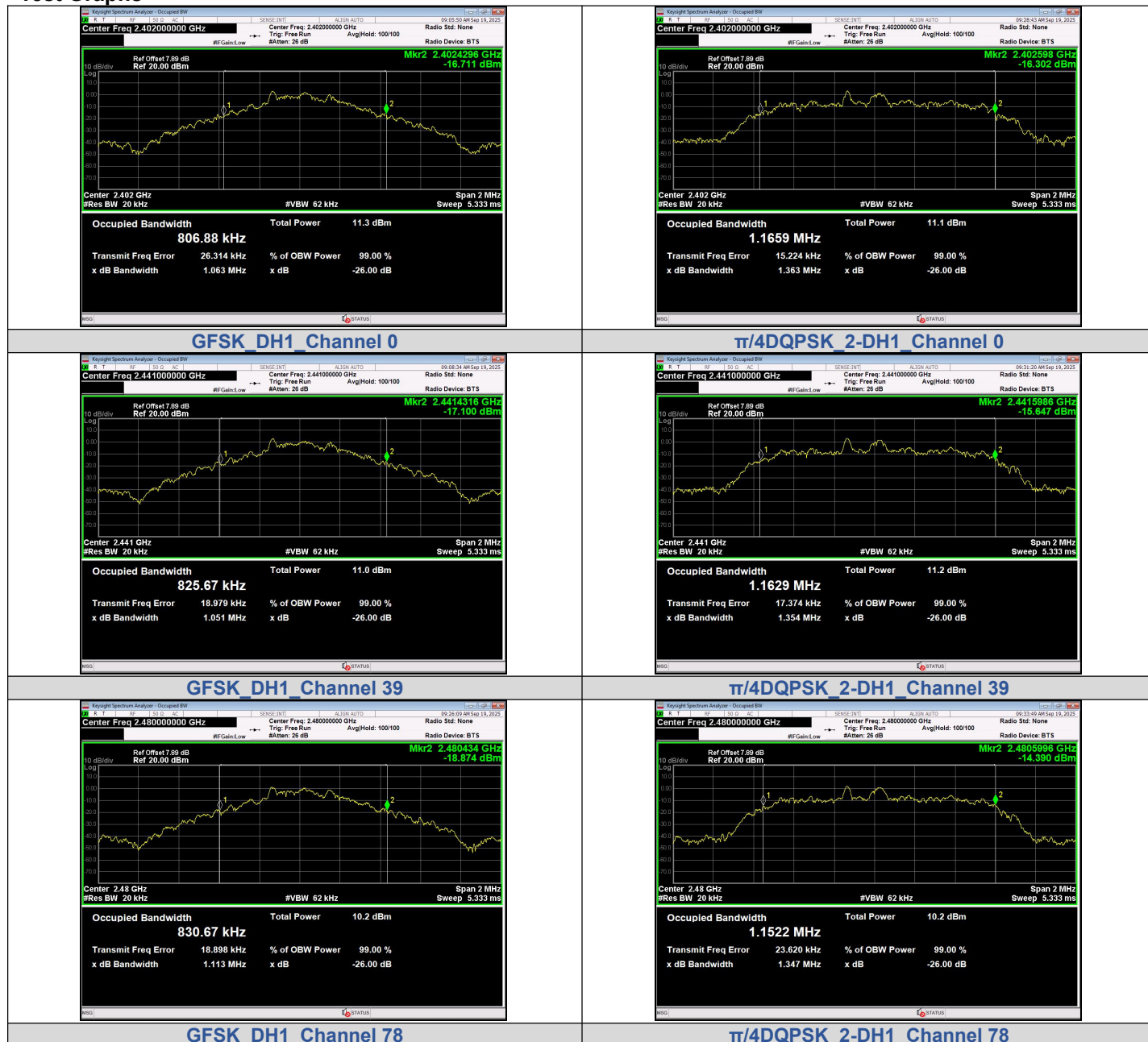
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A.4 99% BANDWIDTH

Test Result

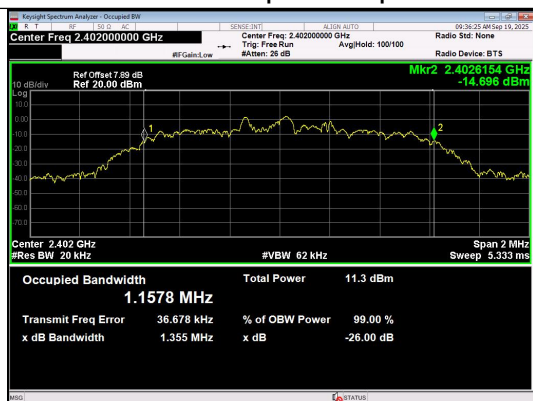
Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.80688
	39	2441	0.82567
	78	2480	0.83067
π /4DQPSK	0	2402	1.1659
	39	2441	1.1629
	78	2480	1.1522
8DPSK	0	2402	1.1578
	39	2441	1.1438
	78	2480	1.1542

Test Graphs

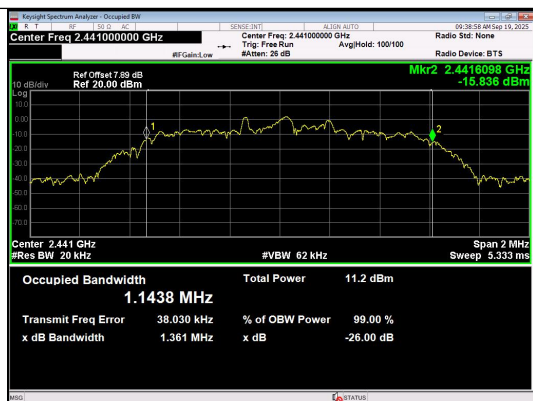




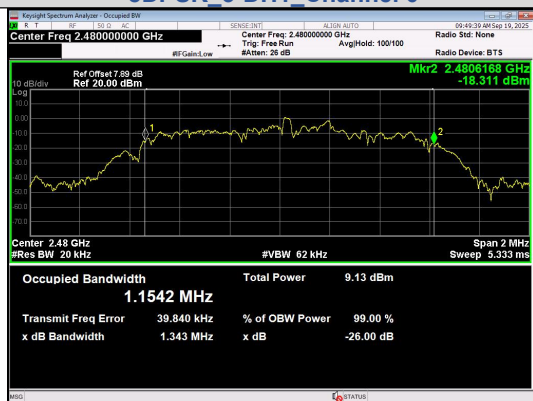
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8DPSK_3-DH1_Channel 0



8DPSK_3-DH1_Channel 39



8DPSK_3-DH1_Channel 78



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A.5 20DB BANDWIDTH

Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.8700
	39	2441 MHz	0.8700
	78	2480 MHz	0.8800
$\pi/4$ DQPSK	0	2402 MHz	1.260
	39	2441 MHz	1.250
	78	2480 MHz	1.250
8DPSK	0	2402 MHz	1.240
	39	2441 MHz	1.240
	78	2480 MHz	1.220

Test Graphs

