



Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China

RF Conducted Test - appendix I Bluetooth_(Class Bluetooth)_Test data.

E.U.T:	USB decoder
Model Number:	iDSD GR 2
Sample ID	33000275288
Sample(s) Status:	Engineer sample
Date of Receipt:	2026.06.10
Date of Test:	2026.06.10 ~ 2026.06.30
Report No.	2026070353737504-00
Tester	Hugh Zhang



Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China

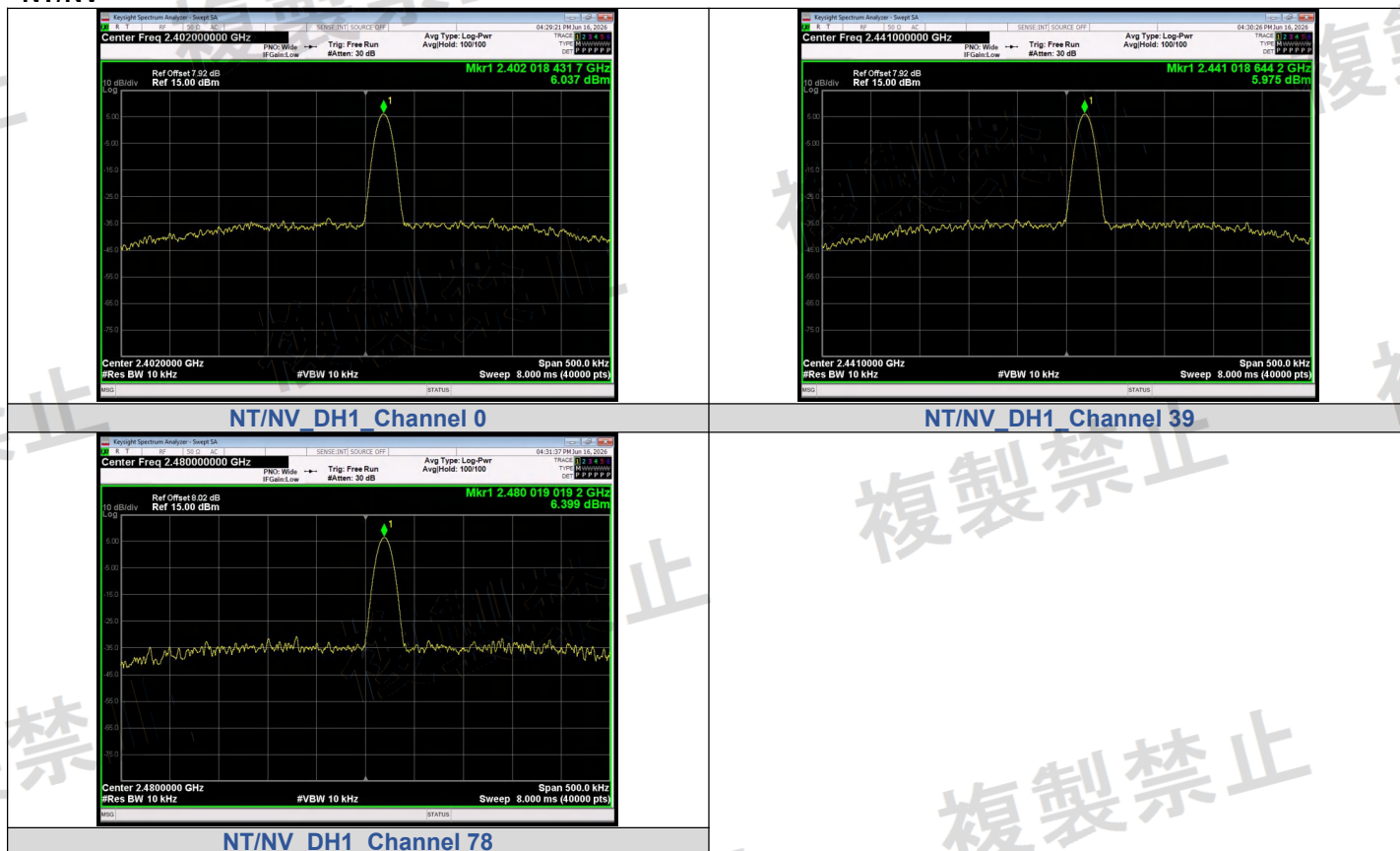
A.1 FREQUENCY TOLERANCE

Test Result

Condition	Mode	Ch.	Center Frequency (MHz)	Measured Value (MHz)	Result (ppm)	Limit (ppm)	Verdict
NT/NV	GFSK(CW)	0	2402	2402.0184317	7.67	± 50	PASS
NT/NV	GFSK(CW)	39	2441	2441.0186442	7.64	± 50	PASS
NT/NV	GFSK(CW)	78	2480	2480.0190192	7.67	± 50	PASS

Test Graphs

NT/NV





Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China

A.2 ANTENNA POWER

Test Result

Operation Mode	Power (dBm)	Power (mW)	Spread Bandwidth (MHz)	Power (mW/MHz)	Limit (mW/MHz)	Rated power (mW/MHz)	Tolerance (%)	Limit	Result
GFSK	6.313	4.28	71.293	0.115	3	0.120	-4.29	20%	Pass
$\pi/4$ -DQPSK	6.178	4.15	71.564	0.112	3	0.120	-6.69		
8DPSK	6.462	4.43	71.59	0.117	3	0.120	-2.44		

Test Mode	Conducted RF output power (mW/MHz)	Conducted RF output power (dBm/MHz)	Antenna Gain	EIRP RF output power (dBm/MHz)	Limit (dBm/MHz)	Result
GFSK	0.115	-9.40	3	-6.40	6.91	Pass
$\pi/4$ -DQPSK	0.112	-9.51	3	-6.51	6.91	Pass
8DPSK	0.117	-9.32	3	-6.32	6.91	Pass



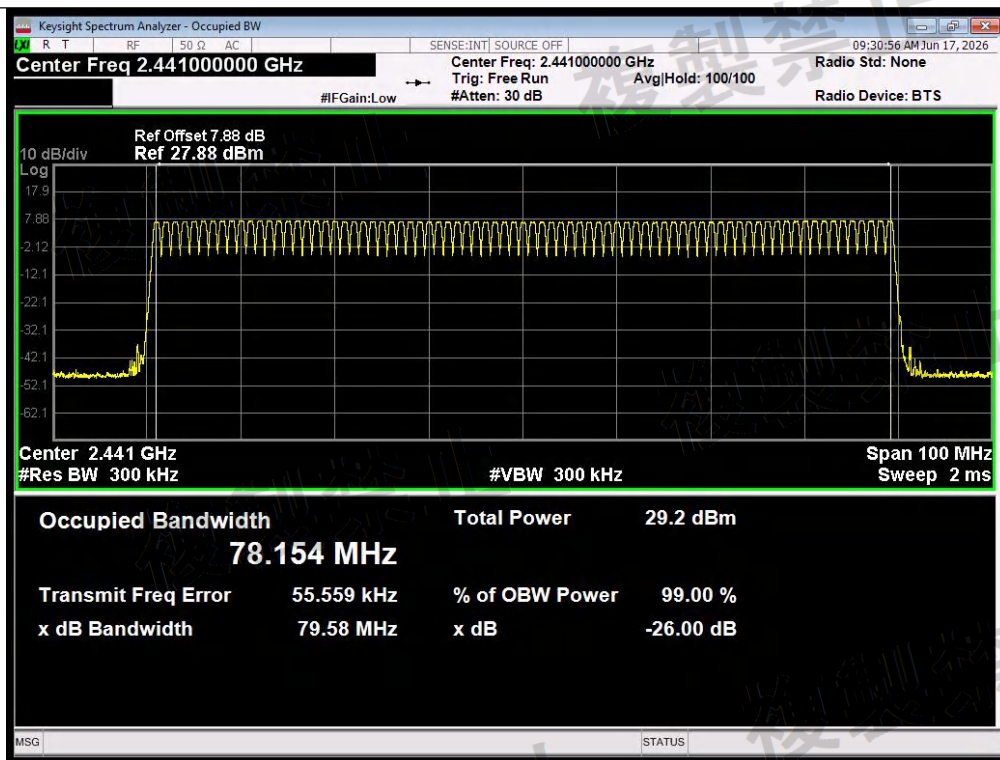
Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China

A.3 OCCUPIED BANDWIDTH (99% BW)

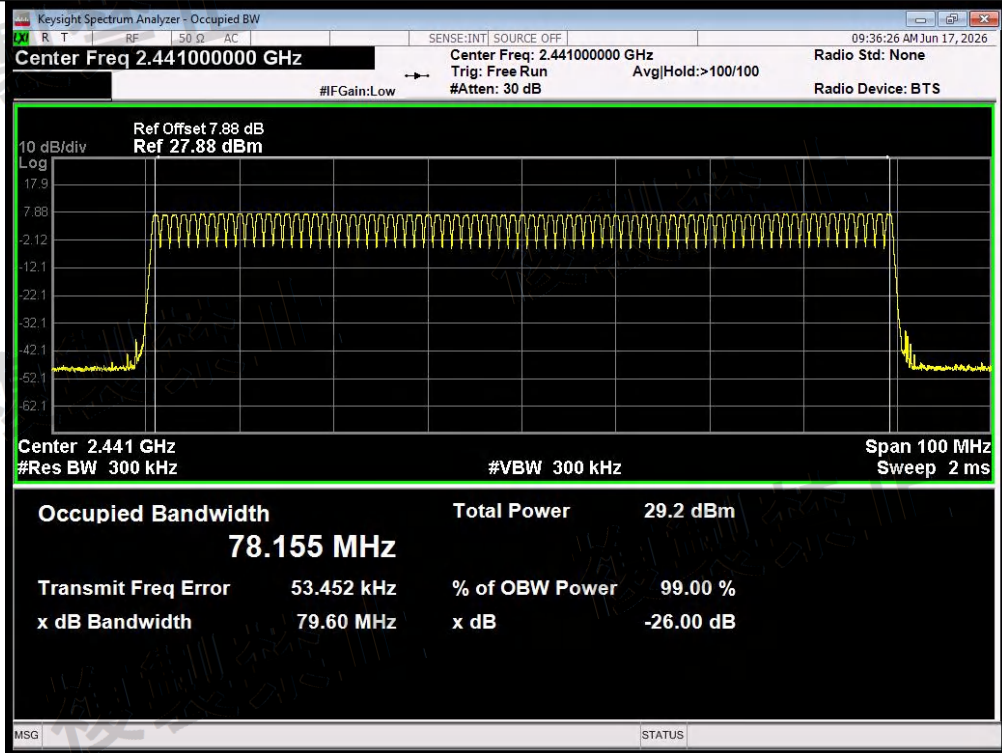
Test Result
Normal Mode

Condition	Modulation	99% BW (MHz)	Limit (MHz)	Result
NT/NV	GFSK_DH1	78.154	83.5	PASS
	GFSK_DH3	78.155		PASS
	GFSK_DH5	78.155		PASS
	$\pi/4$ DQPSK_2-DH1	78.333		PASS
	$\pi/4$ DQPSK_2-DH3	78.341		PASS
	$\pi/4$ DQPSK_2-DH5	78.336		PASS
	8DPSK_3-DH1	78.326		PASS
	8DPSK_3-DH3	78.379		PASS
	8DPSK_3-DH5	78.324		PASS

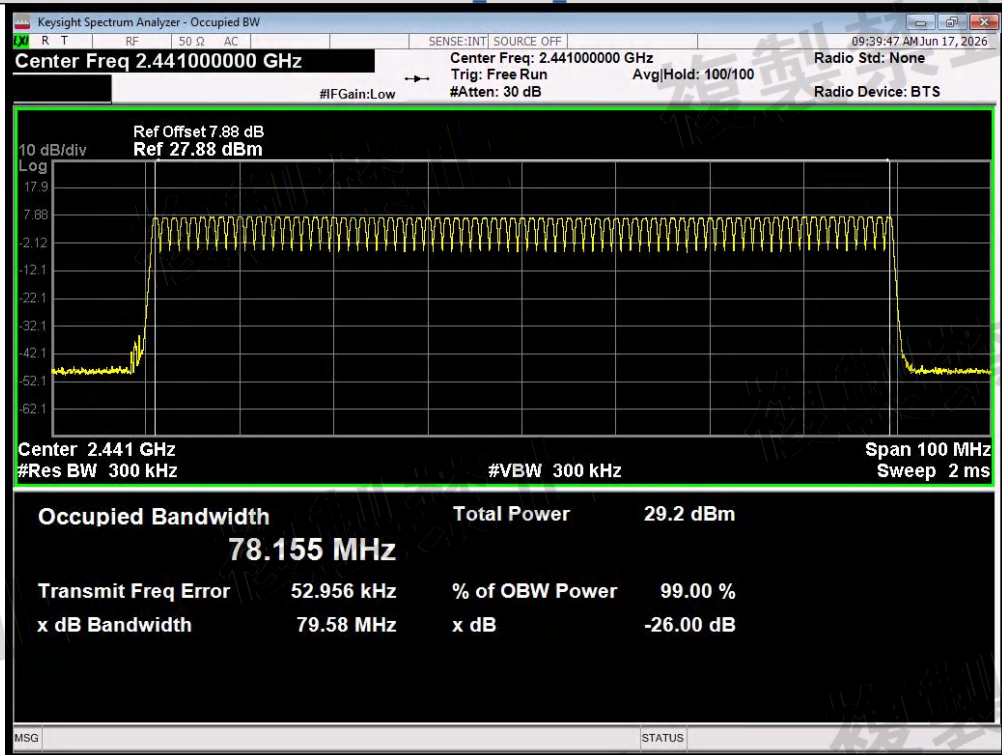
Test Graphs
Normal Mode



NT/NV GFSK DH1



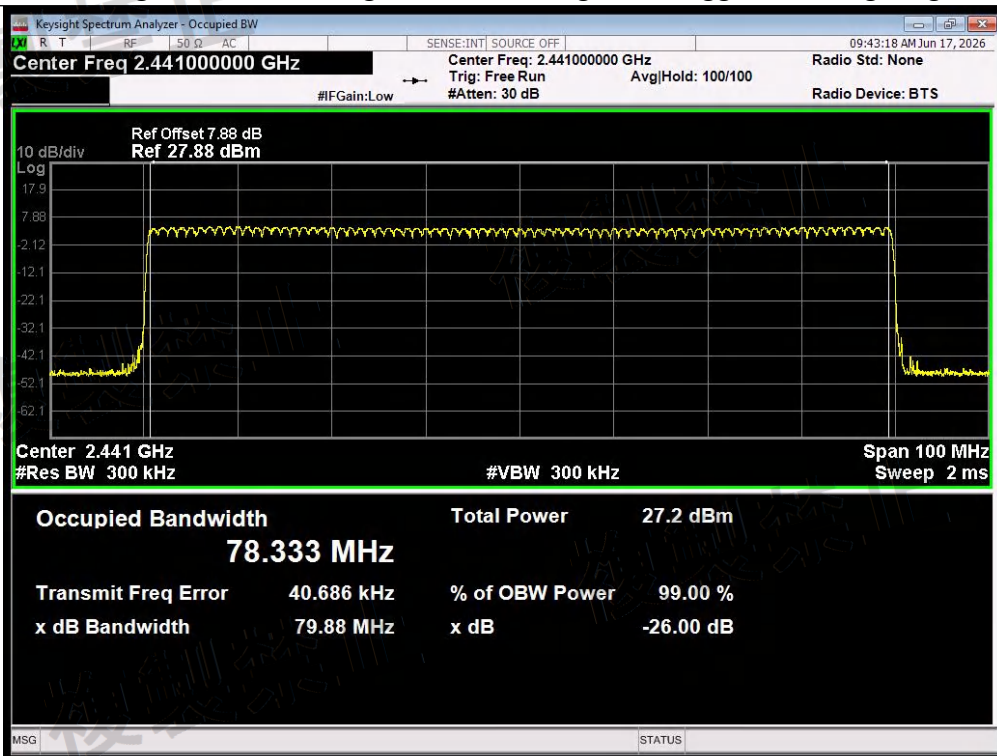
NT/NV_GFSK_DH3



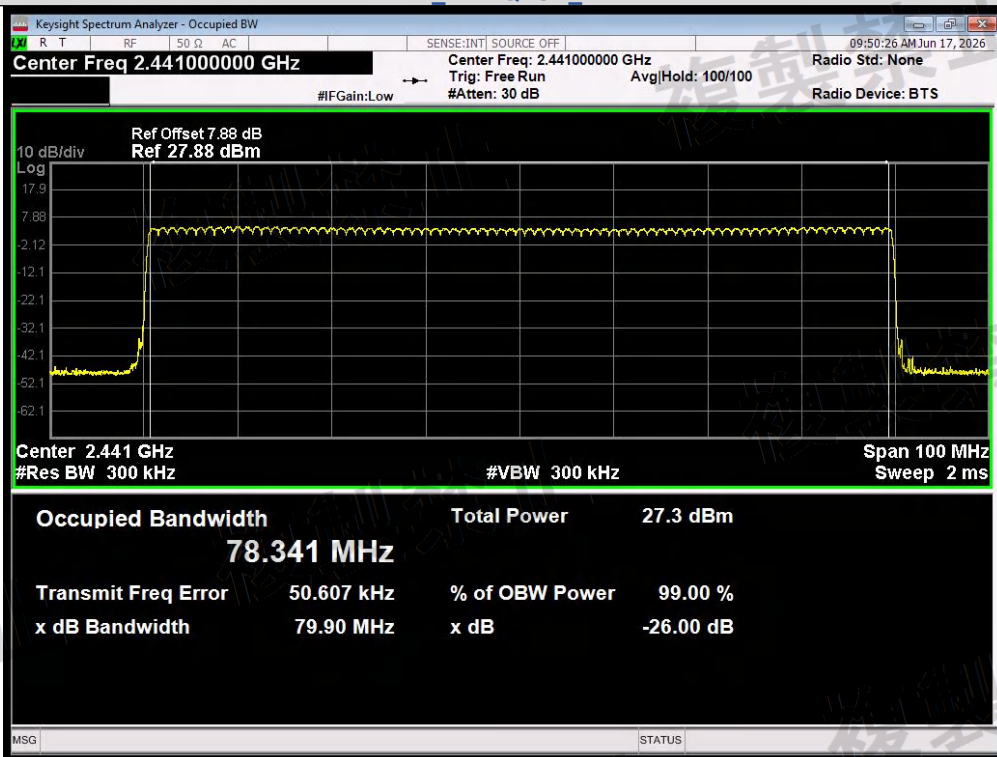
NT/NV_GFSK_DH5



Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China



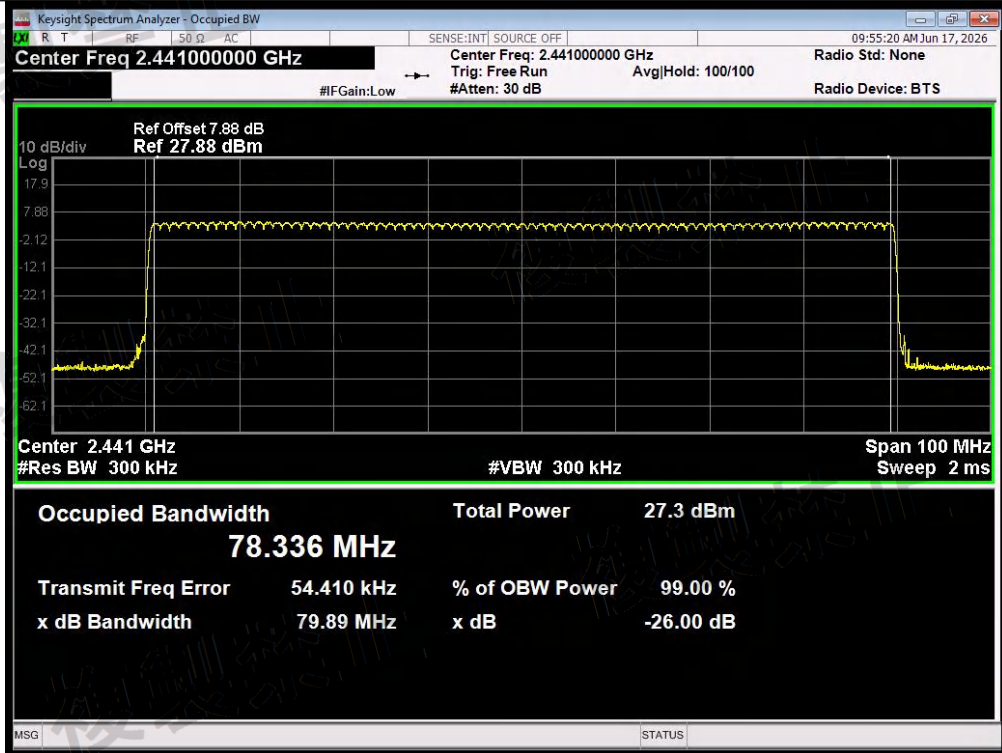
NT/NV_π/4DQPSK_2-DH1



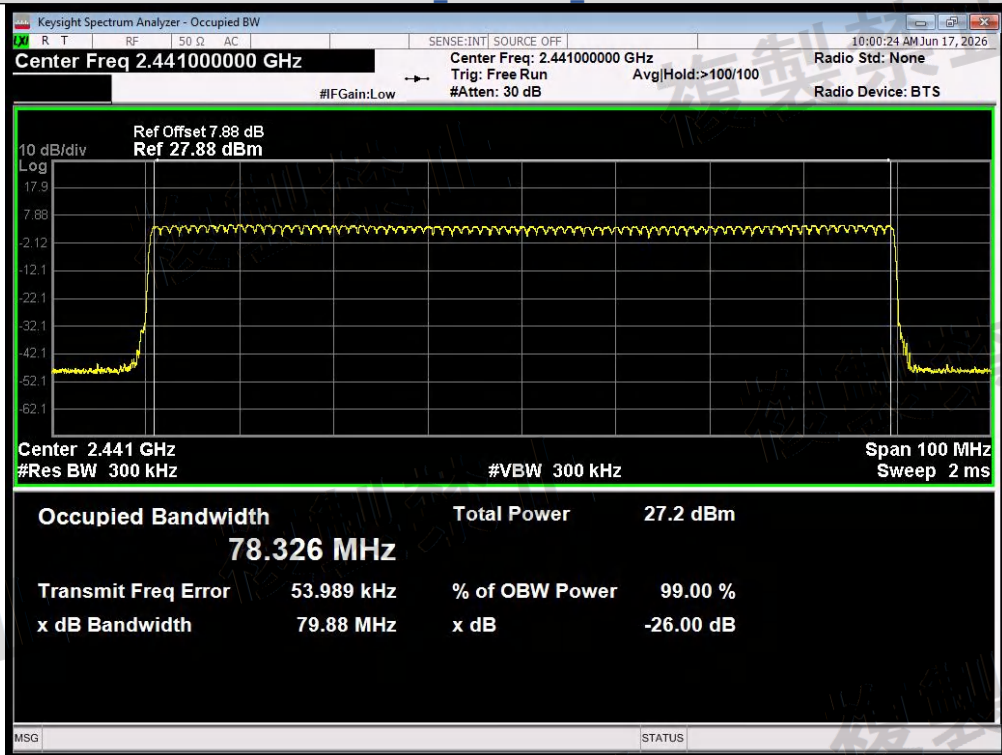
NT/NV_π/4DQPSK_2-DH3



Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China



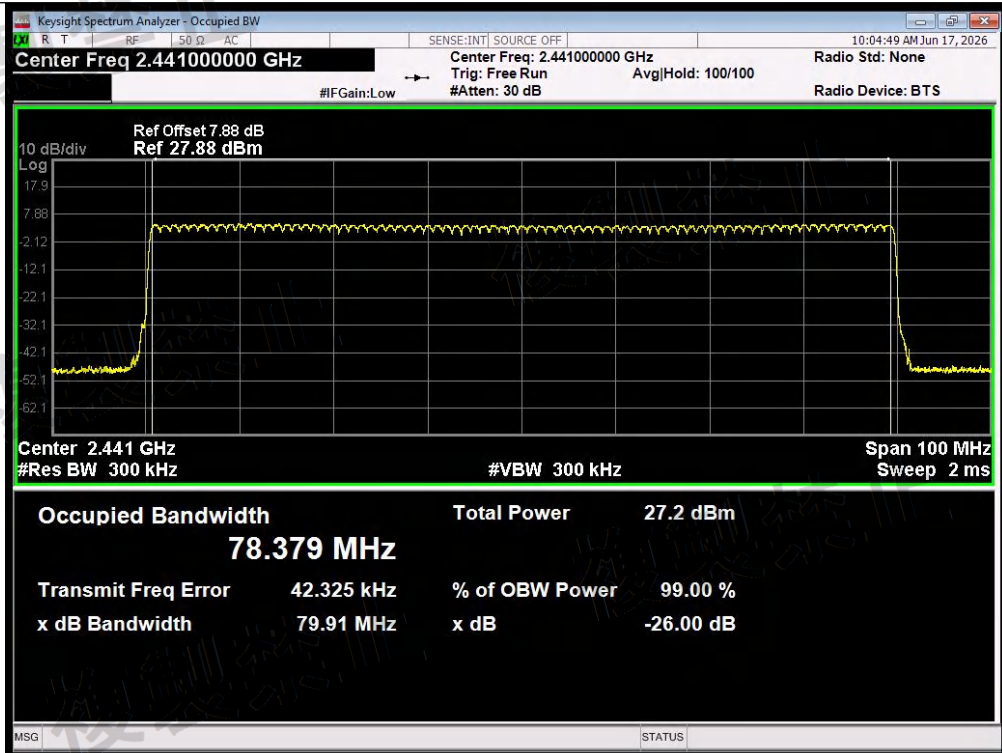
NT/NV π /4DQPSK 2-DH5



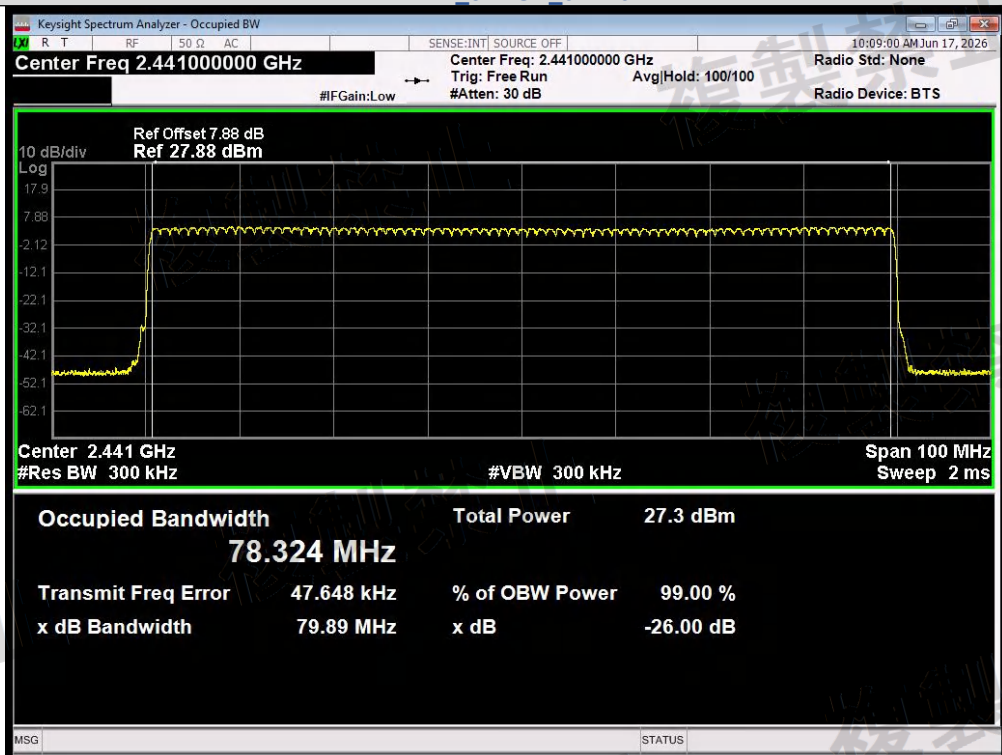
NT/NV 8DPSK 3-DH1



Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China



NT/NV 8DPSK 3-DH3



NT/NV 8DPSK 3-DH5



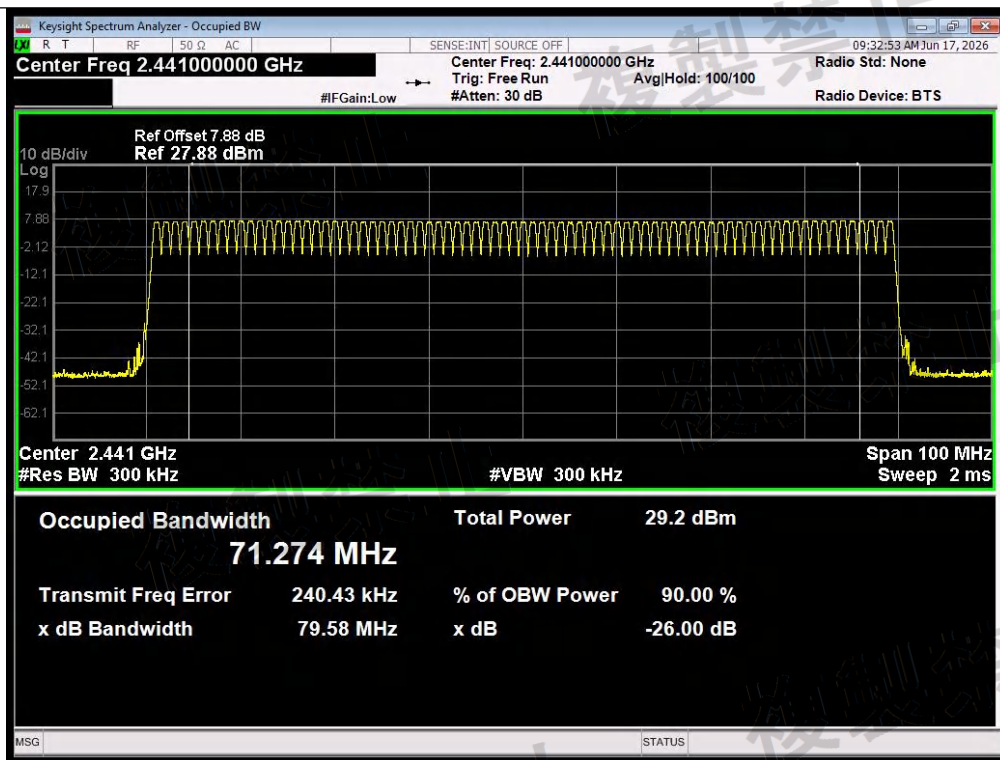
Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China

A.4 SPREADING BANDWIDTH (90% BW)

Test Result
Normal Mode

Condition	Mode	90% SBW (MHz)	Verdict
NT/NV	GFSK_DH1	71.274	PASS
NT/NV	GFSK_DH3	71.293	PASS
NT/NV	GFSK_DH5	71.269	PASS
NT/NV	$\pi/4$ DQPSK_2-DH1	71.415	PASS
NT/NV	$\pi/4$ DQPSK_2-DH3	71.564	PASS
NT/NV	$\pi/4$ DQPSK_2-DH5	71.488	PASS
NT/NV	8DPSK_3-DH1	71.590	PASS
NT/NV	8DPSK_3-DH3	71.526	PASS
NT/NV	8DPSK_3-DH5	71.468	PASS

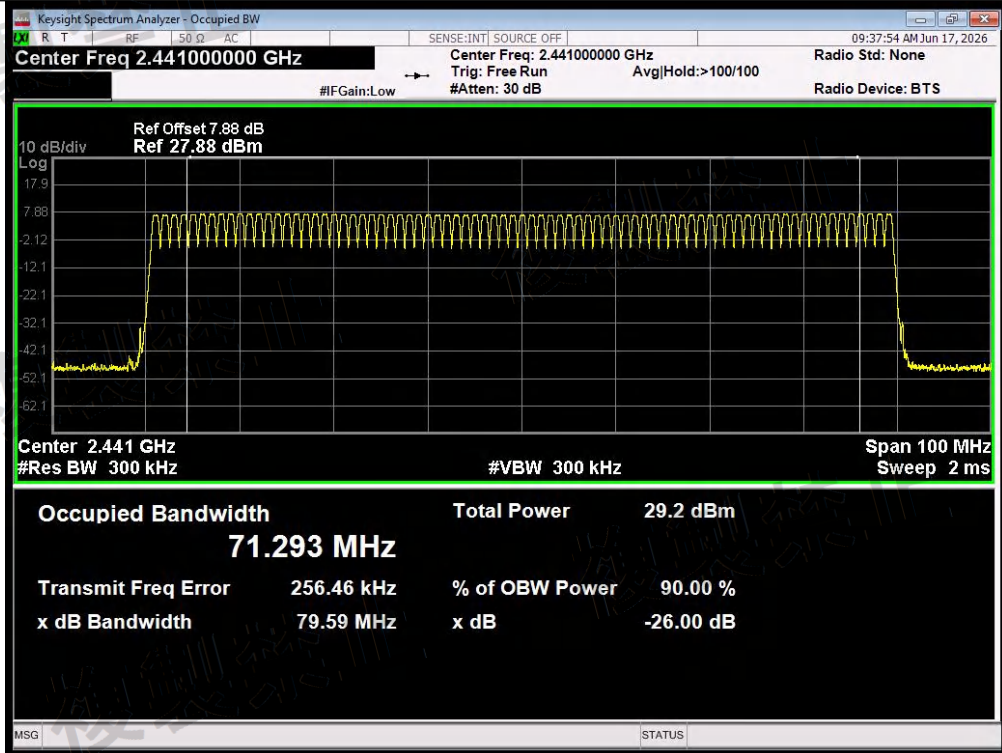
Test Graphs
Normal Mode



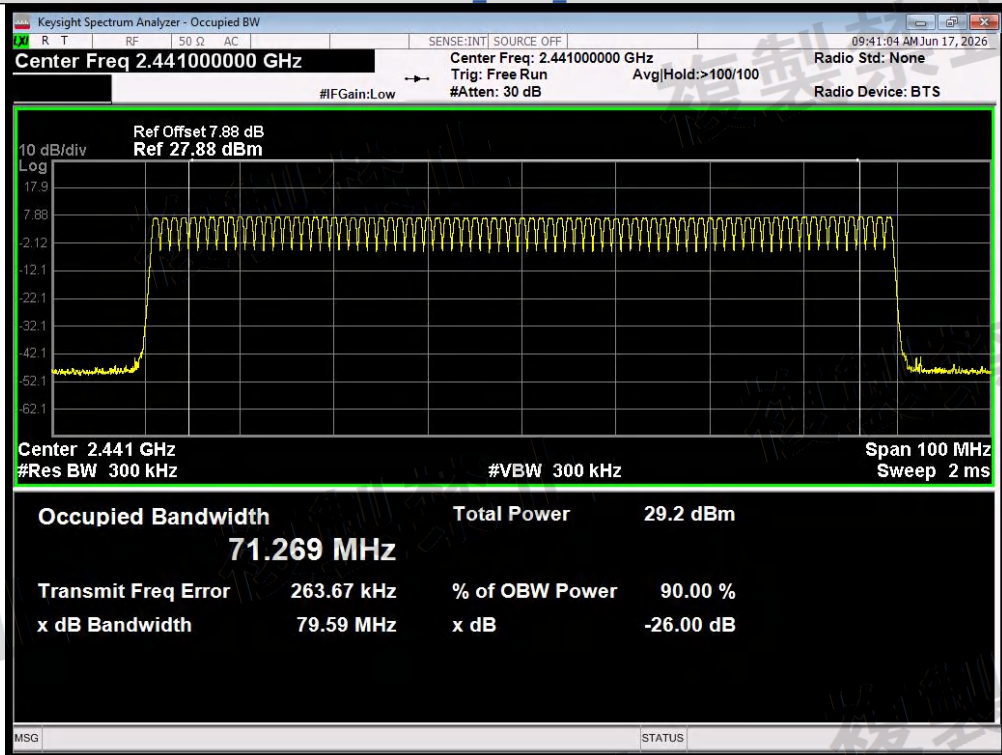
NT/NV_GFSK_DH1



Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China



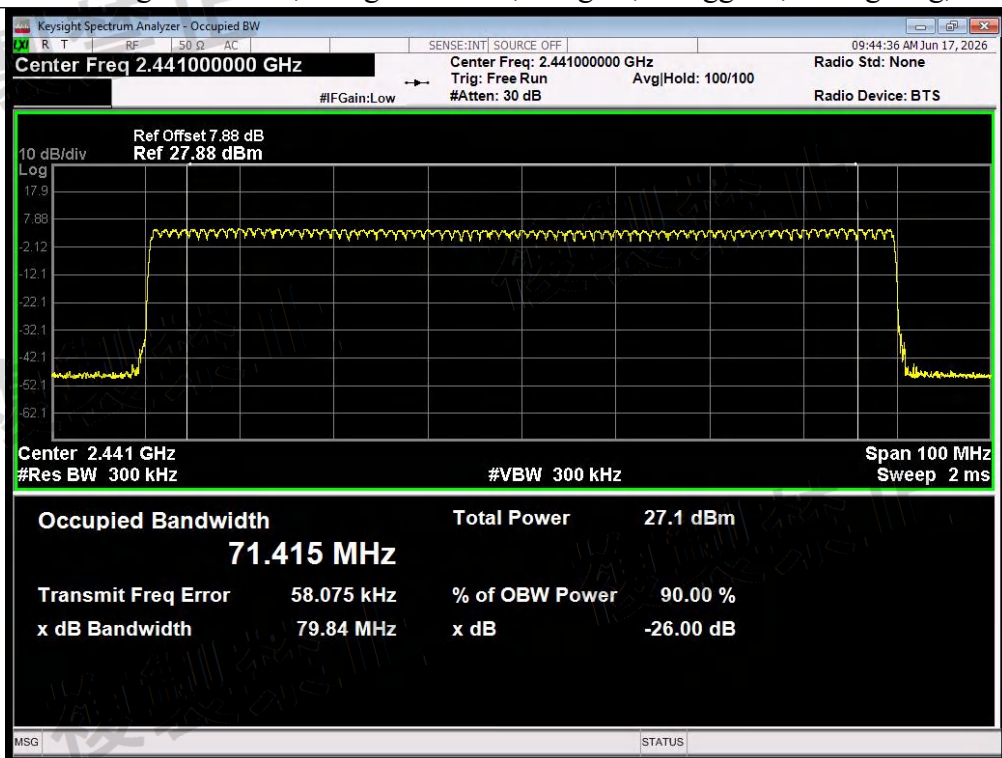
NT/NV_GFSK_DH3



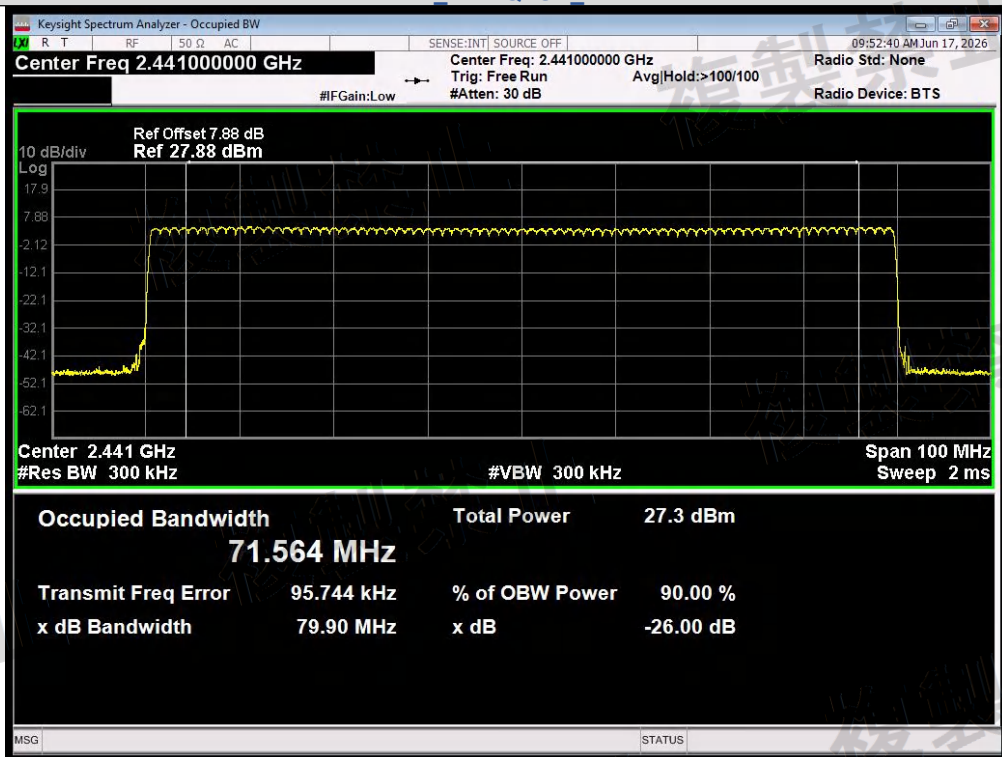
NT/NV_GFSK_DH5



Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China



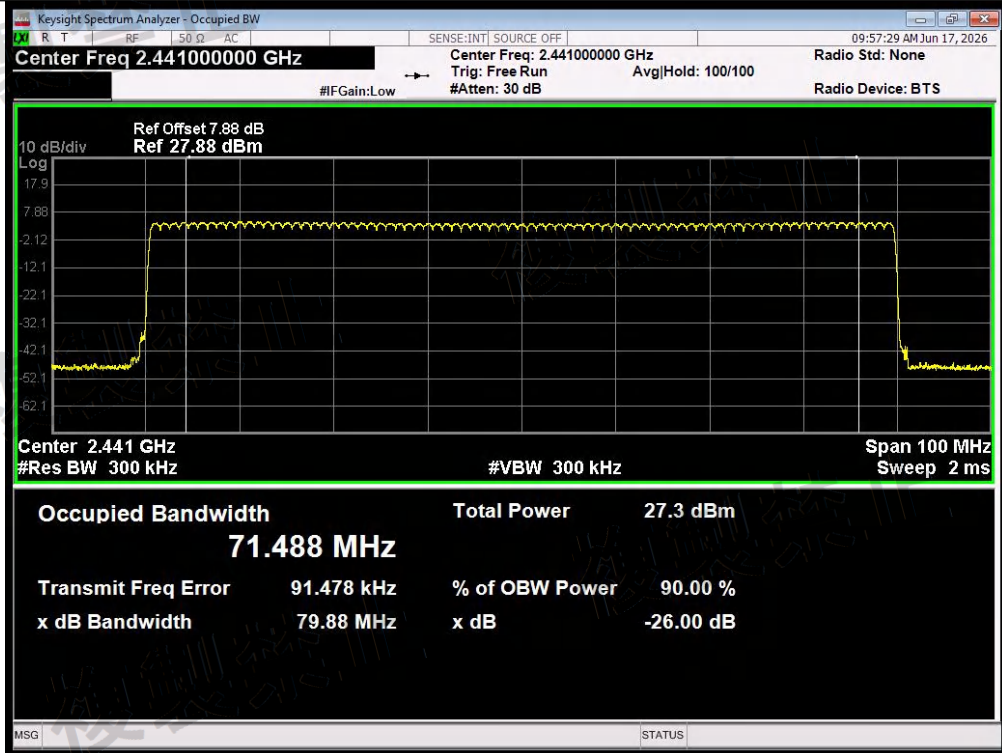
NT/NV_π/4DQPSK_2-DH1



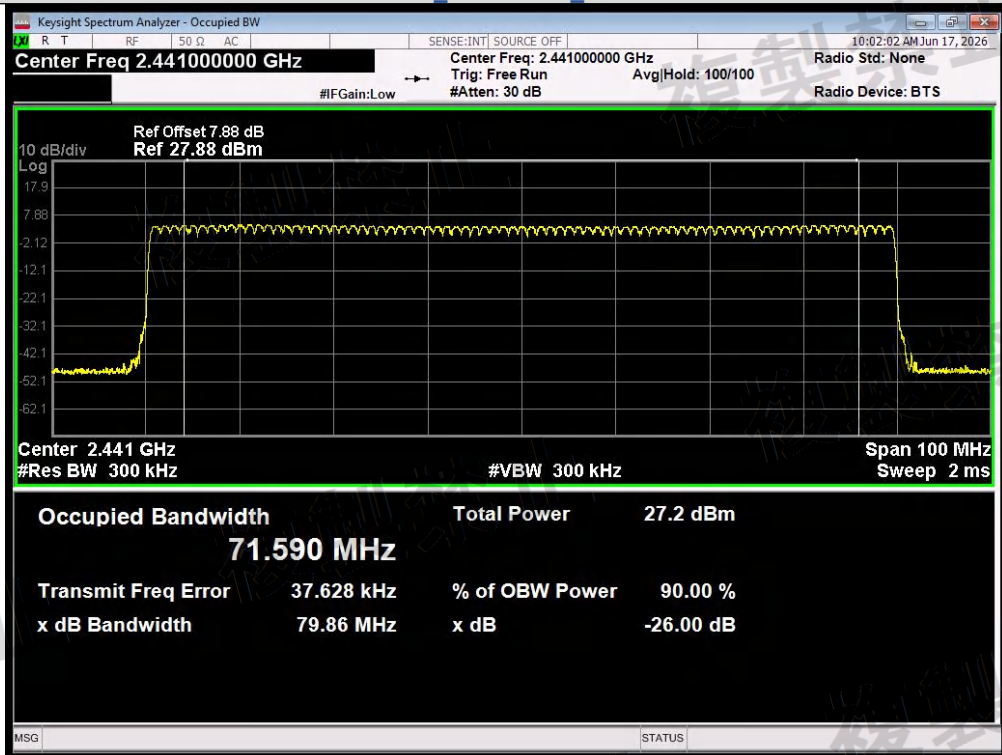
NT/NV_π/4DQPSK_2-DH3



Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China



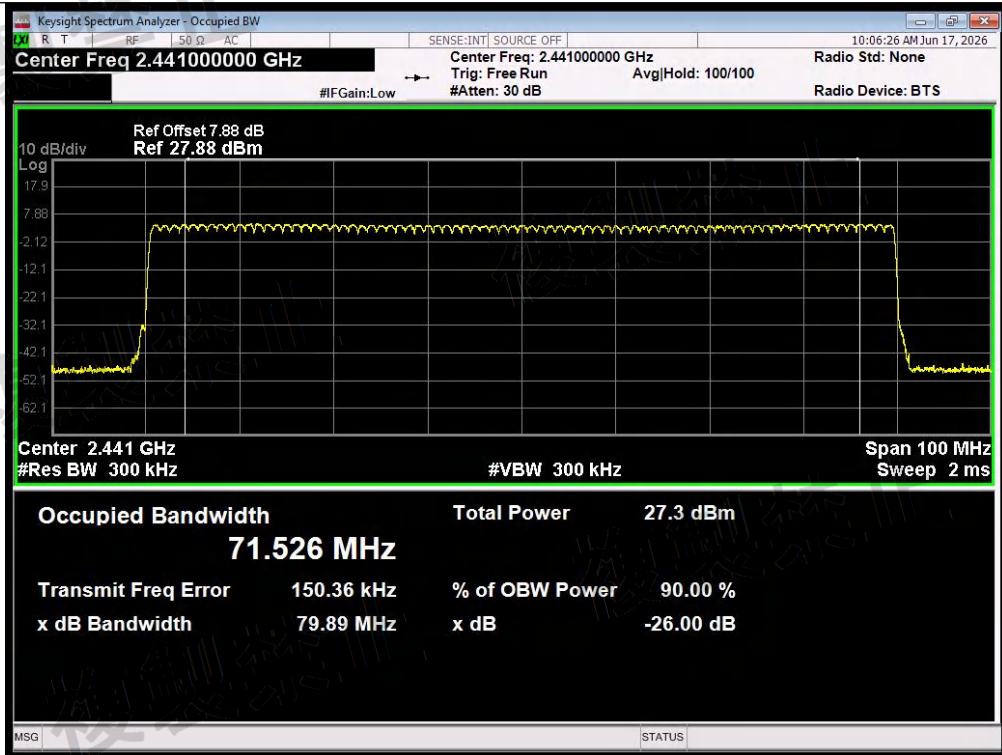
NT/NV π /4DQPSK 2-DH5



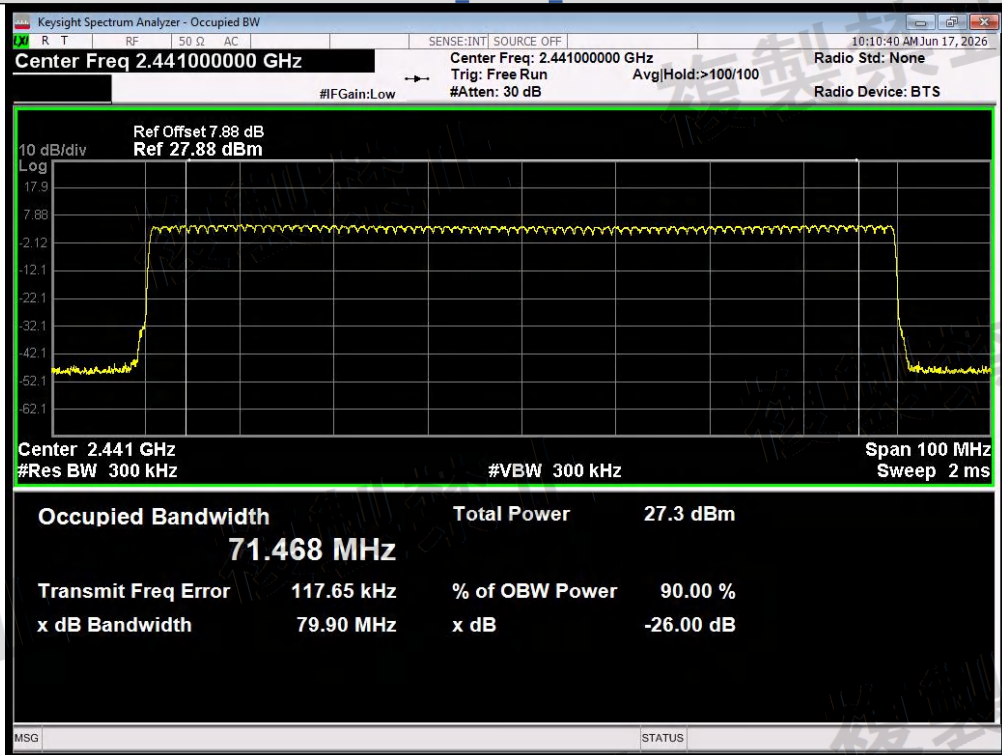
NT/NV 8DPSK 3-DH1



Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China



NT/NV 8DPSK 3-DH3



NT/NV 8DPSK 3-DH5



Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30,
Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong, China

A.5 DWELL TIME

Test Result
Normal Mode

Condition	Modulation	Packet	Spreading Rate	(Spreading Rate / 79) * 0.4	Burst Ratio	Dwell Time (ms)	Limit (ms)	Result
NT/NV	GFSK	DH1	71.2735	0.3609	0.304	109	400	PASS
		DH3	71.2735	0.3609	0.656	236	400	PASS
		DH5	71.2735	0.3609	0.771	278	400	PASS
	π/4DQPSK	2-DH1	71.4151	0.3616	0.312	112	400	PASS
		2-DH3	71.4151	0.3616	0.656	237	400	PASS
		2-DH5	71.4151	0.3616	0.771	278	400	PASS
	8DPSK	3-DH1	71.5899	0.3625	0.312	113	400	PASS
		3-DH3	71.5899	0.3625	0.656	237	400	PASS
		3-DH5	71.5899	0.3625	0.771	279	400	PASS

Note:

1) Spreading Rate = Spreading factor;

2) Normal mode Dwell time = (Spreading rate/79) x Burst Ratio x 0.4 seconds.

3) Burst Ratio = Duty Cycle = On Time / Period.

Test Graphs

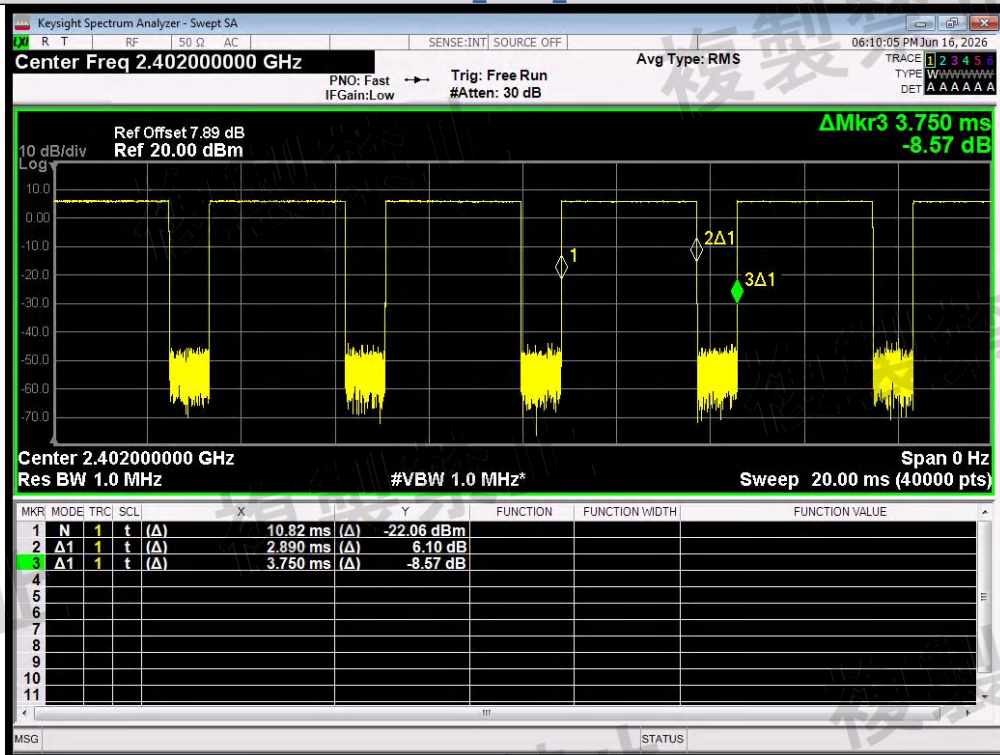
Normal Mode



Dwell Time
NT/NV_GFSK_DH1



Dwell Time
NT/NV_GFSK_DH3



Dwell Time
NT/NV_GFSK_DH5