



Keyway Testing Technology (Guangdong) Co., Ltd
21 Floor,Building 6,Dongyi Intelligent Equipment New Energy Vehicle Park,N.30
of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China

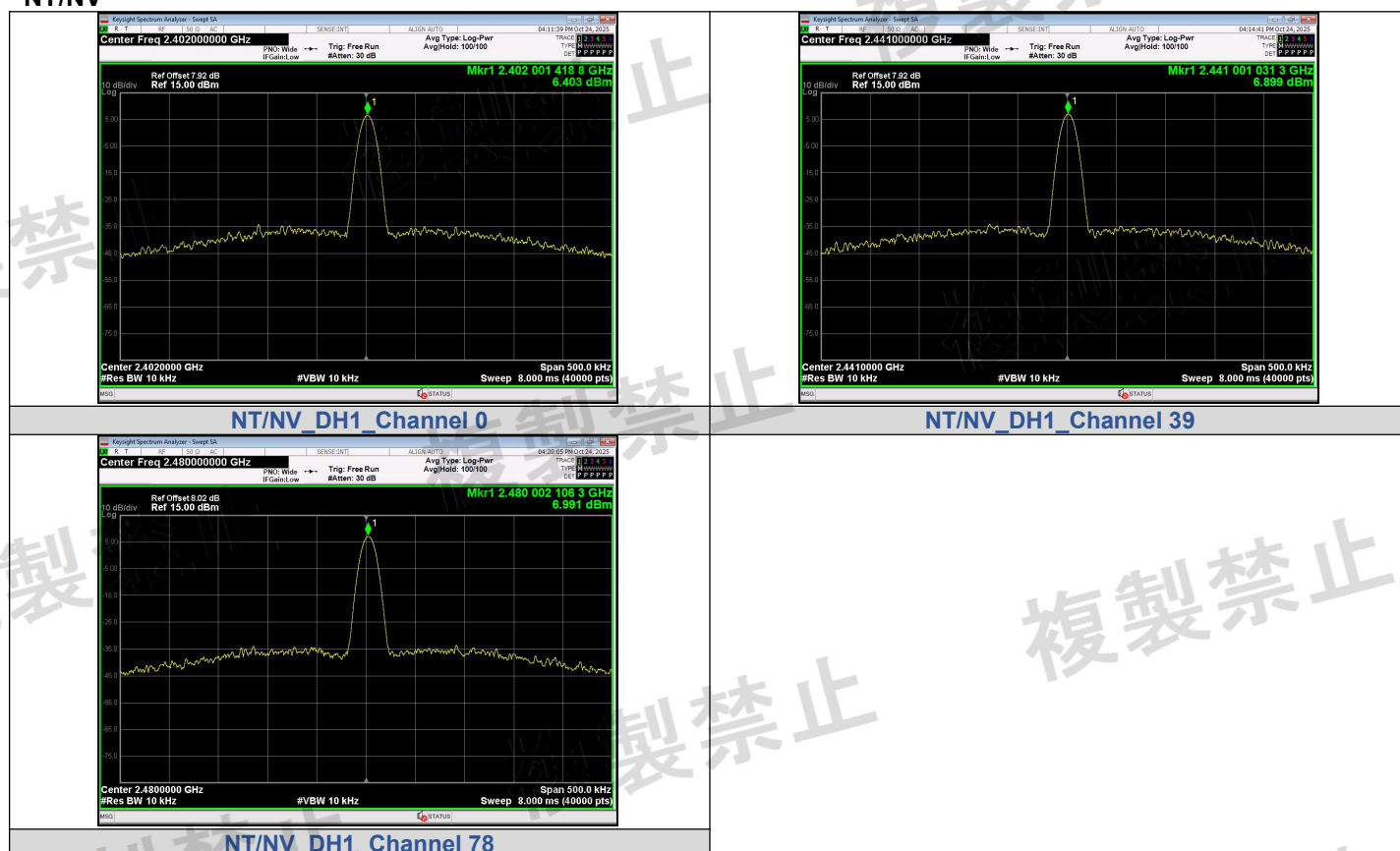
E.U.T:	Bluetooth conference speakerphone
Model Number:	LBT-SP02M2
Trade Name:	ELECOM
Sample Number:	33000254836
Date of Receipt:	Oct. 22, 2025
Date of Test:	Oct. 22 ~ Nov. 20, 2025

A.1 FREQUENCY TOLERANCE

Test Result

Condition	Mode	Ch.	Center Frequency (MHz)	Measured Value (MHz)	Result (ppm)	Limit (ppm)	Result
NT/NV	GFSK(CW)	0	2402	2402.0014188	0.59	± 50	PASS
NT/NV	GFSK(CW)	39	2441	2441.0010313	0.42	± 50	PASS
NT/NV	GFSK(CW)	78	2480	2480.0021063	0.85	± 50	PASS

Test Graphs NT/NV





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A.2 ANTENNA POWER

Test Result

Operation Mode	Power	Power	Spread Bandwidth	Power	Limit	Rated power	Tolerance (%)	Limit	Result
	(dBm)	(mW)	(MHz)	(mW/MHz)	(mW/MHz)	(mW/MHz)			
GFSK	6.43	4.395	71.316	0.116	3	0.120	-3.05	20%	Pass
$\pi/4$ -DQPSK	6.47	4.436	70.914	0.118	3	0.120	-1.64		
8DPSK	6.52	4.487	70.806	0.119	3	0.120	-0.73		

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	0.116	-9.34	2.7	-6.64	6.91	Pass
$\pi/4$ -DQPSK	0.118	-9.28	2.7	-6.58	6.91	Pass
8DPSK	0.119	-9.24	2.7	-6.54	6.91	Pass



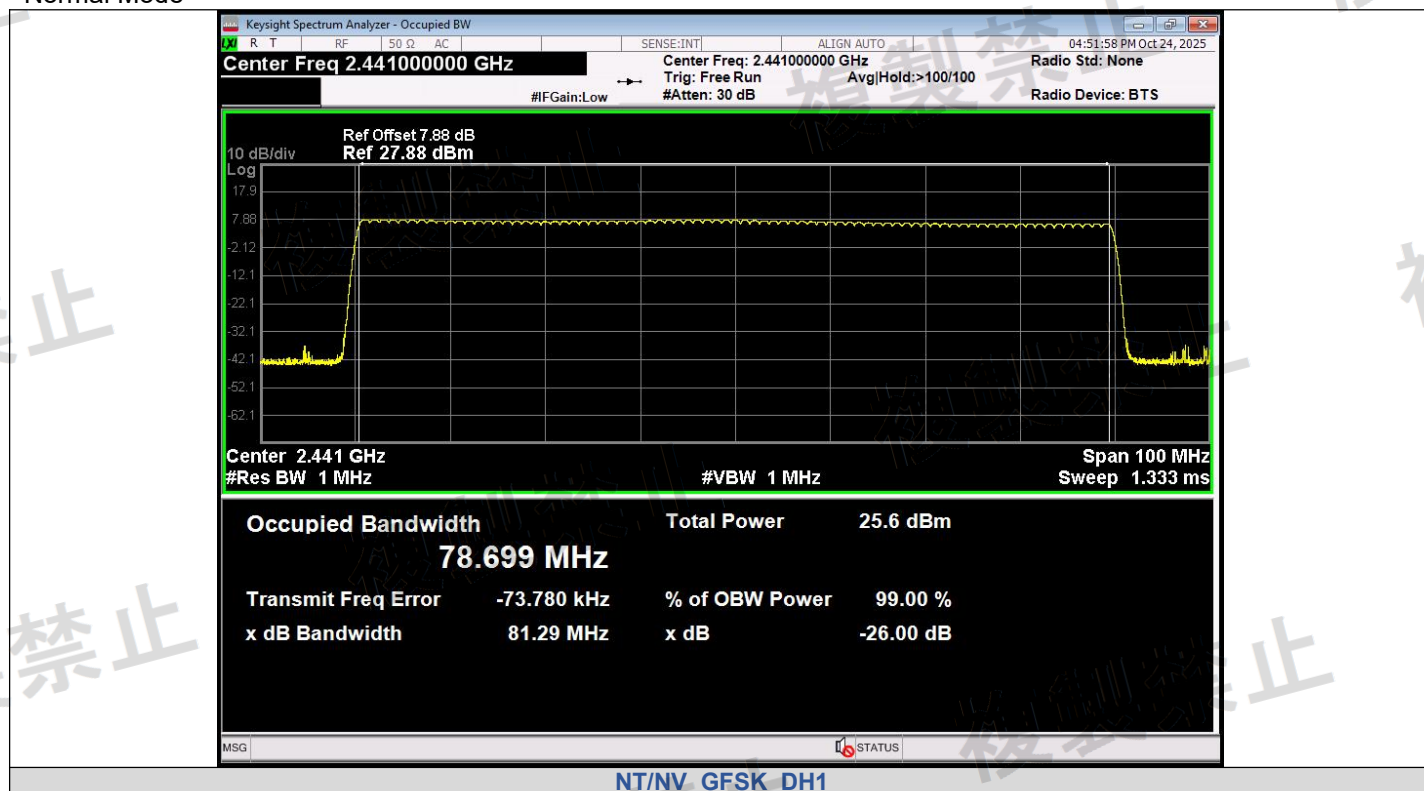
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A.3 OCCUPIED BANDWIDTH (99% BW)

Test Result
Normal Mode

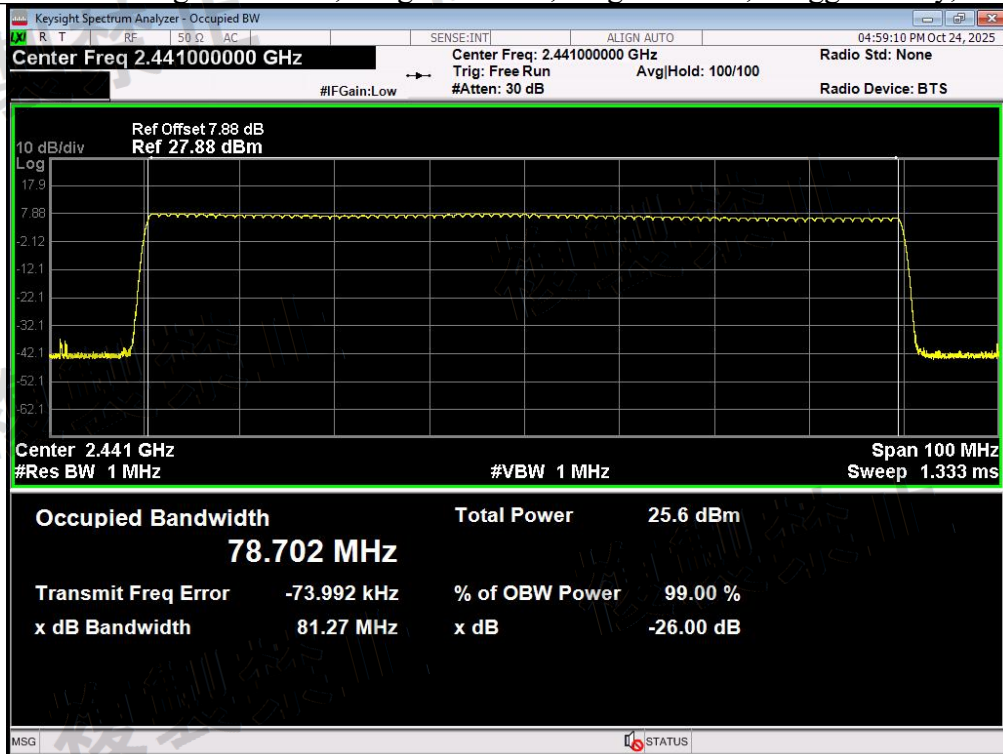
Condition	Modulation	99% BW (MHz)	Limit (MHz)	Result
NT/NV	GFSK_DH1	78.699	83.5	PASS
	GFSK_DH3	78.702		PASS
	GFSK_DH5	78.699		PASS
	$\pi/4$ DQPSK_2-DH1	78.193		PASS
	$\pi/4$ DQPSK_2-DH3	78.284		PASS
	$\pi/4$ DQPSK_2-DH5	78.169		PASS
	8DPSK_3-DH1	78.156		PASS
	8DPSK_3-DH3	78.137		PASS
	8DPSK_3-DH5	78.217		PASS

Test Graphs
Normal Mode

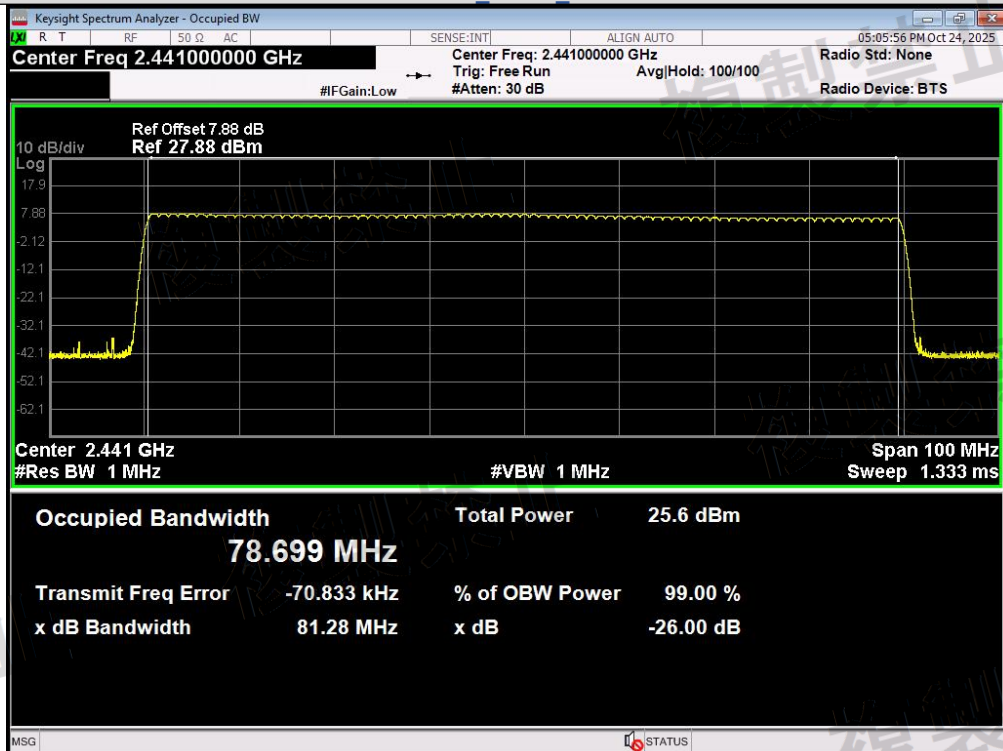




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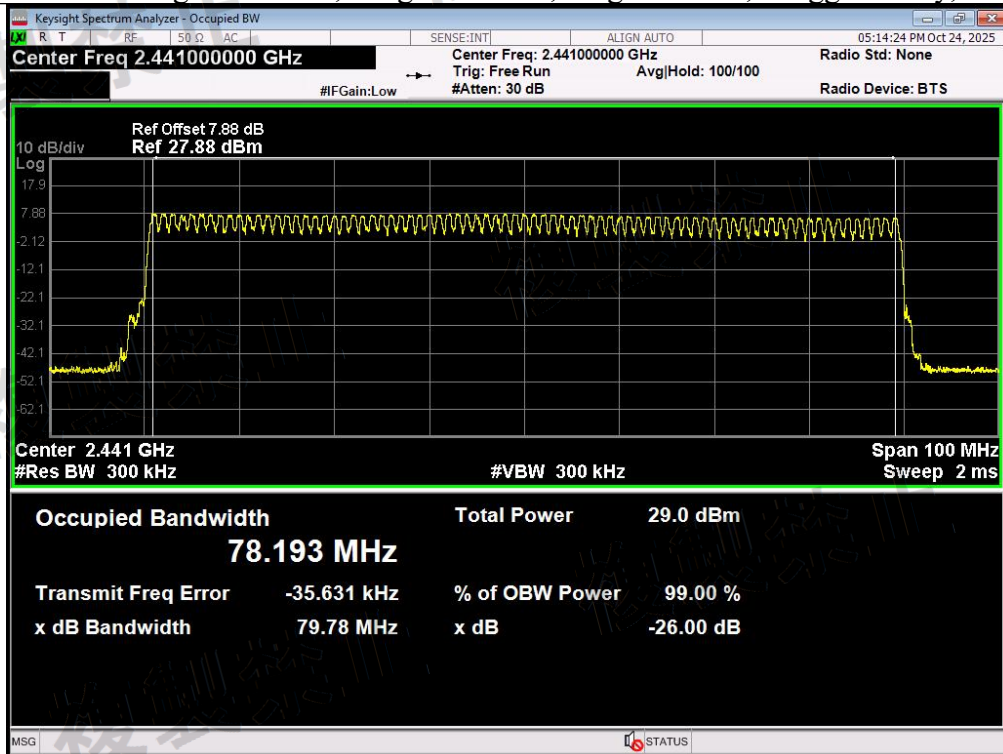
NT/NV_GFSK_DH3



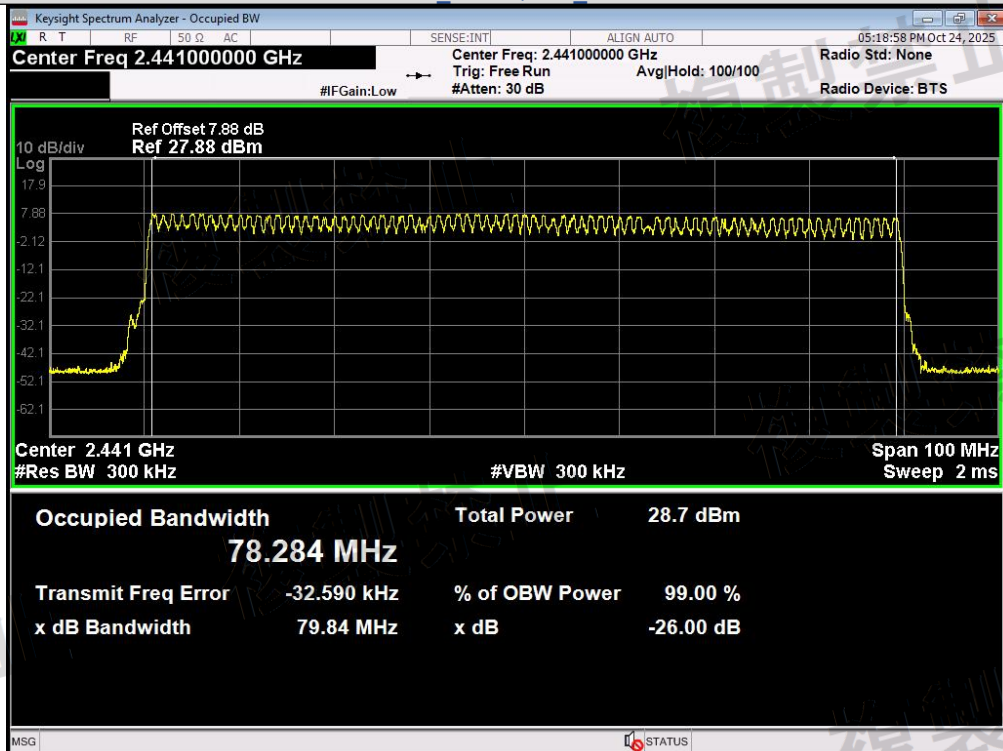
NT/NV_GFSK_DH5



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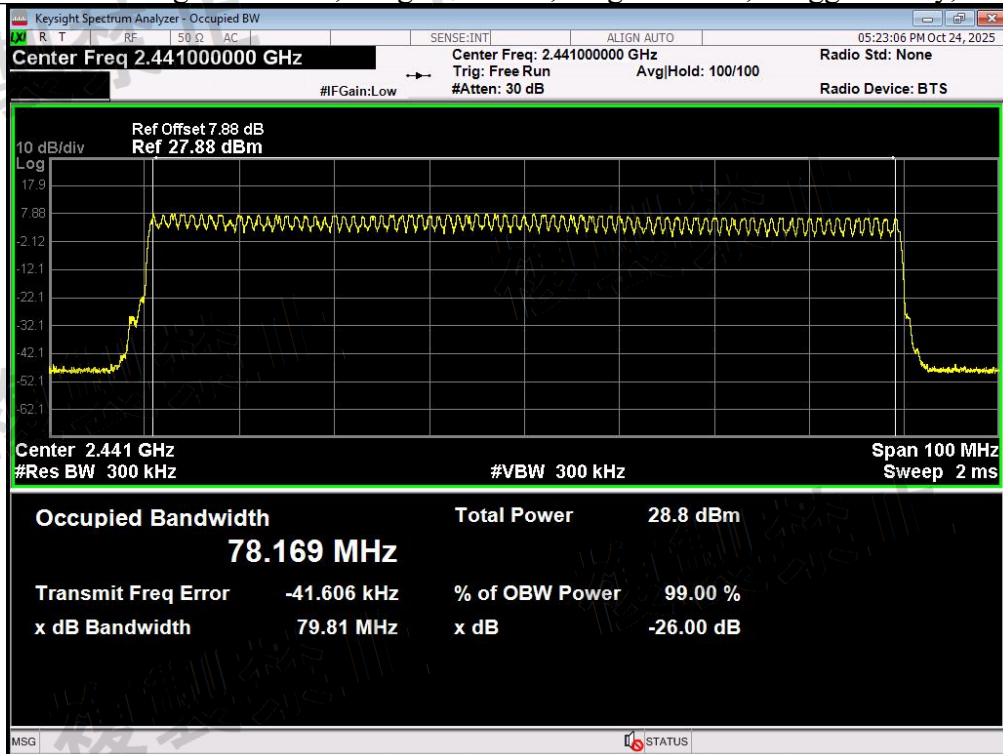
NT/NV_π/4DQPSK_2-DH1



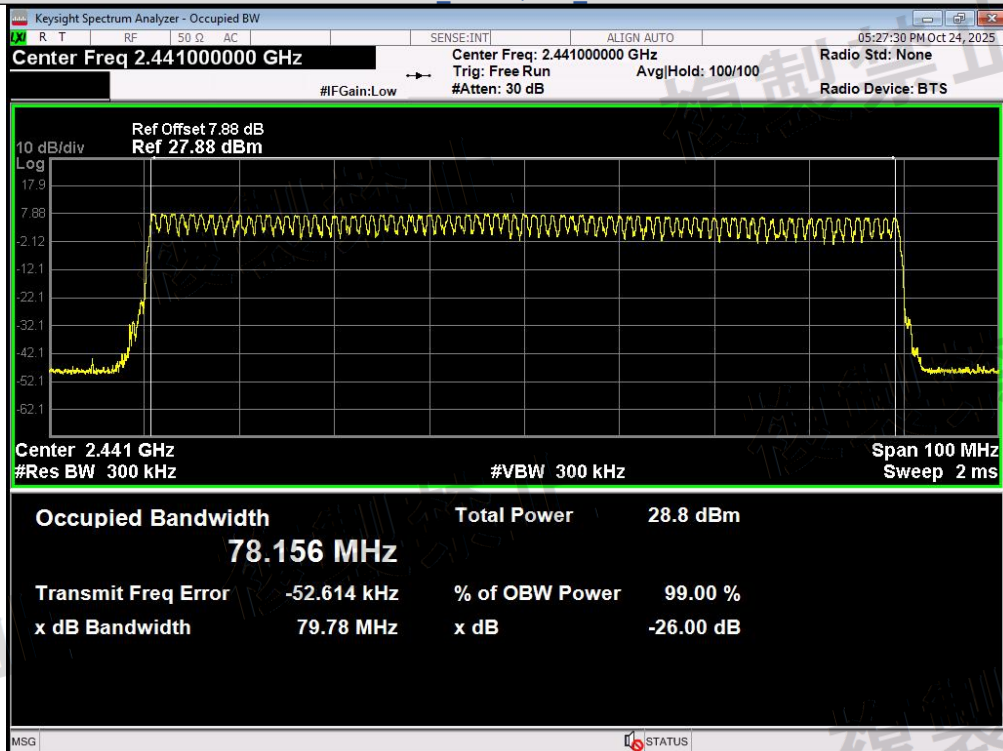
NT/NV_π/4DQPSK_2-DH3



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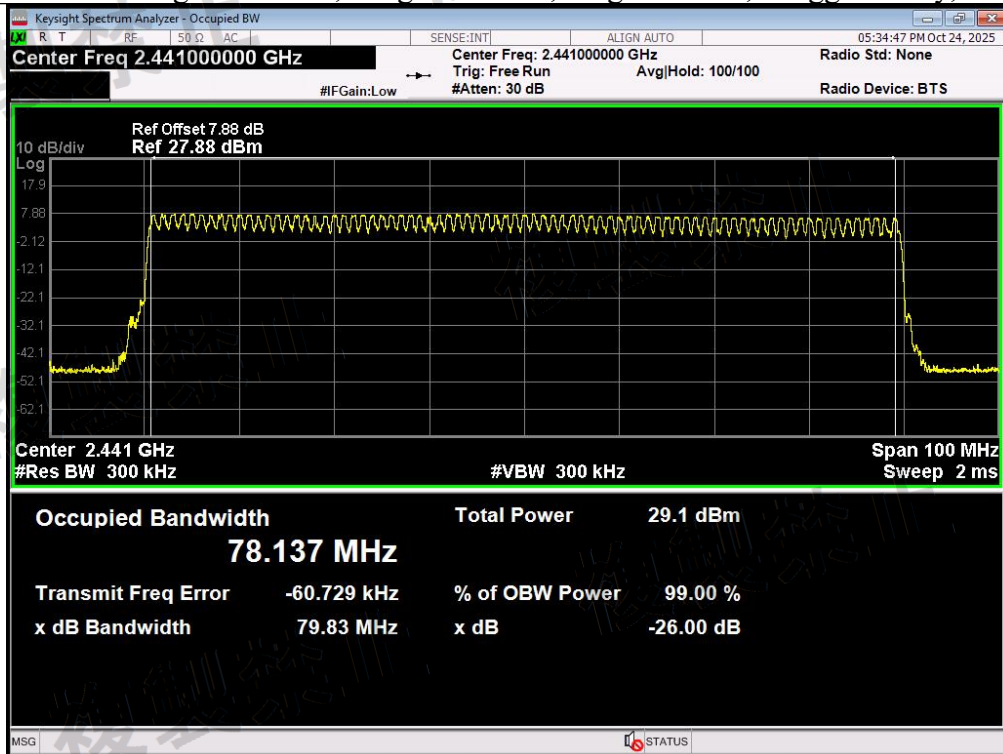
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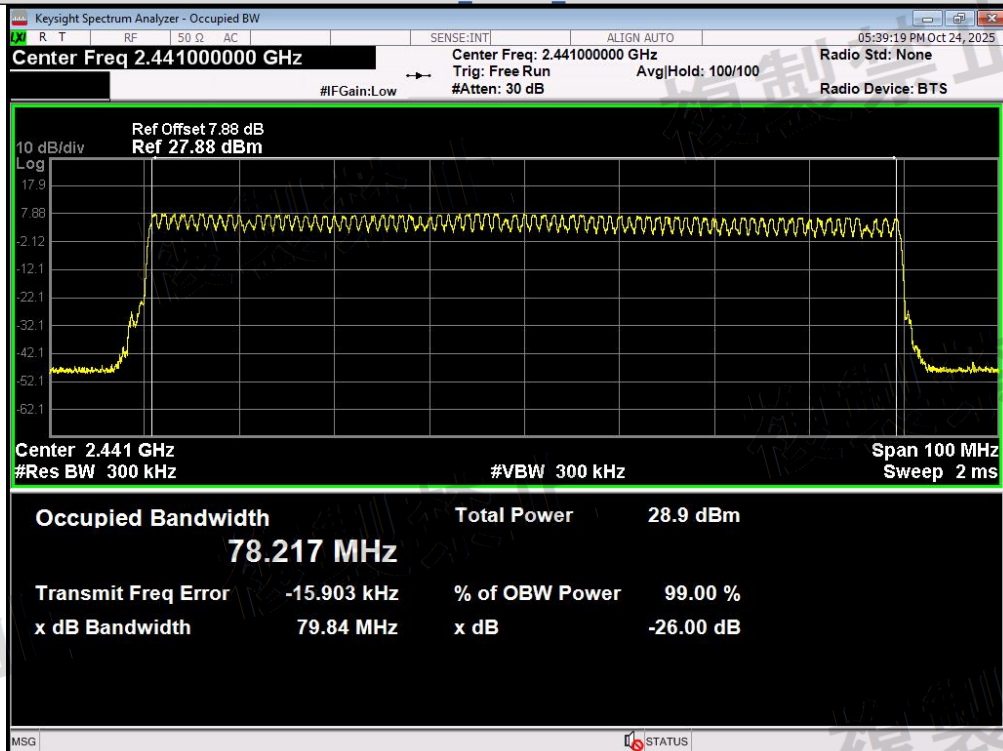
NT/NV_8DPSK_3-DH1



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NT/NV_8DPSK_3-DH3



NT/NV_8DPSK_3-DH5



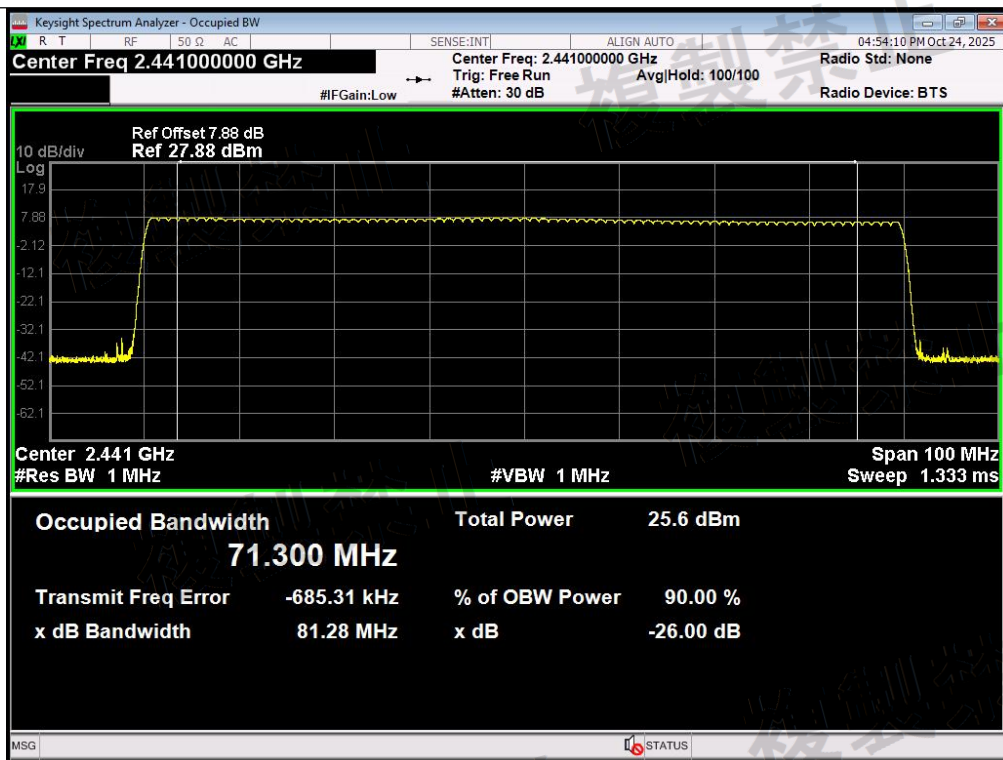
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A.4 SPREADING BANDWIDTH (90% BW)

Test Result
Normal Mode

Condition	Mode	90% SBW (MHz)	Spreading factor	Result
NT/NV	GFSK_DH1	71.300	71.300	PASS
NT/NV	GFSK_DH3	71.305	71.305	PASS
NT/NV	GFSK_DH5	71.316	71.316	PASS
NT/NV	$\pi/4$ DQPSK_2-DH1	70.890	70.890	PASS
NT/NV	$\pi/4$ DQPSK_2-DH3	70.795	70.795	PASS
NT/NV	$\pi/4$ DQPSK_2-DH5	70.914	70.914	PASS
NT/NV	8DPSK_3-DH1	70.187	70.187	PASS
NT/NV	8DPSK_3-DH3	70.806	70.806	PASS
NT/NV	8DPSK_3-DH5	70.323	70.323	PASS

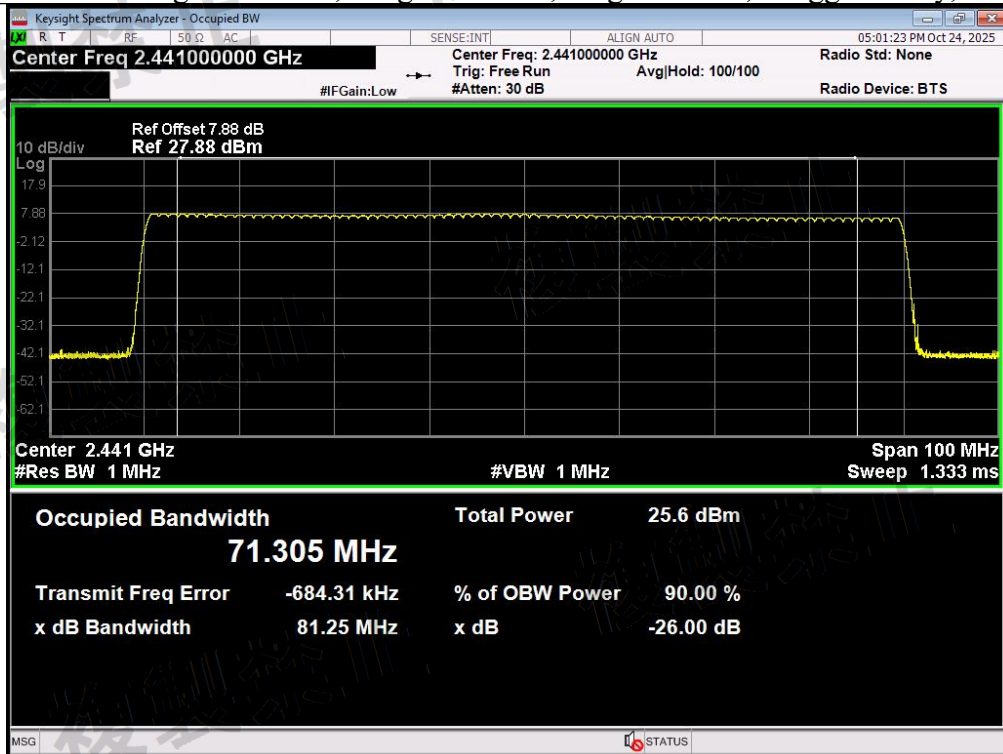
Test Graphs
Normal Mode



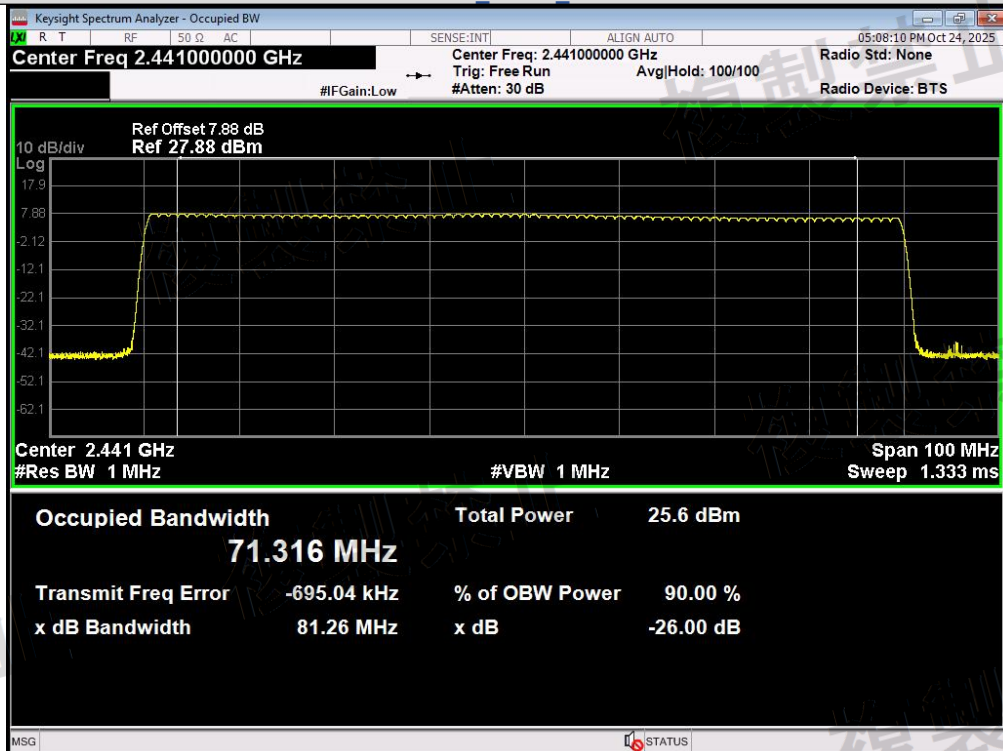
NT/NV_GFSK_DH1



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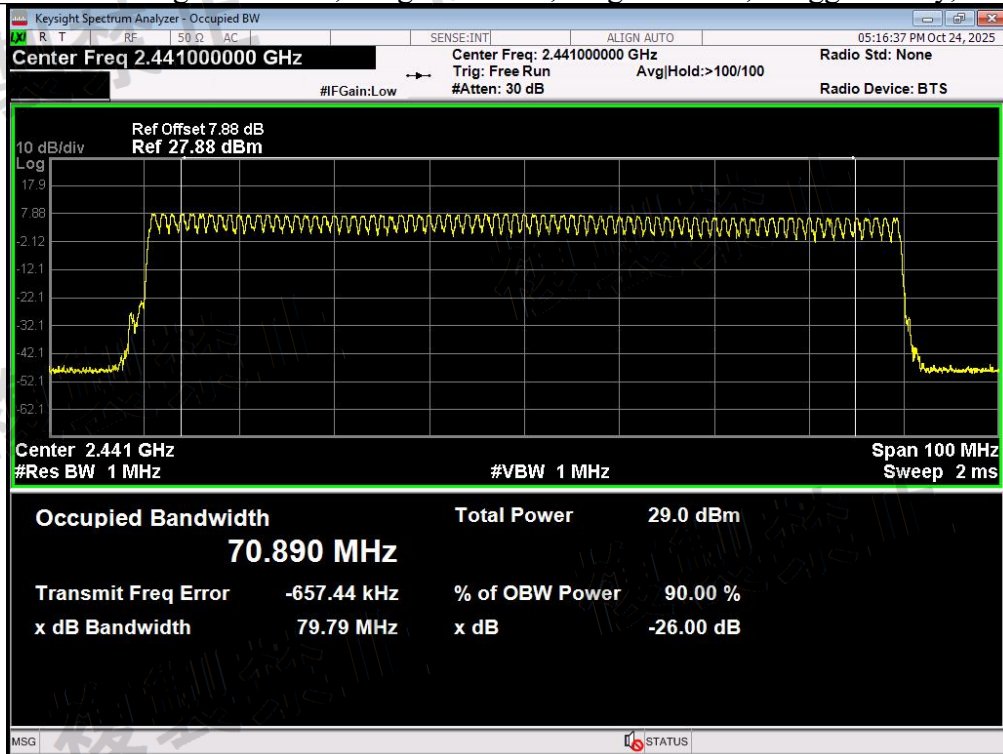
NT/NV_GFSK_DH3



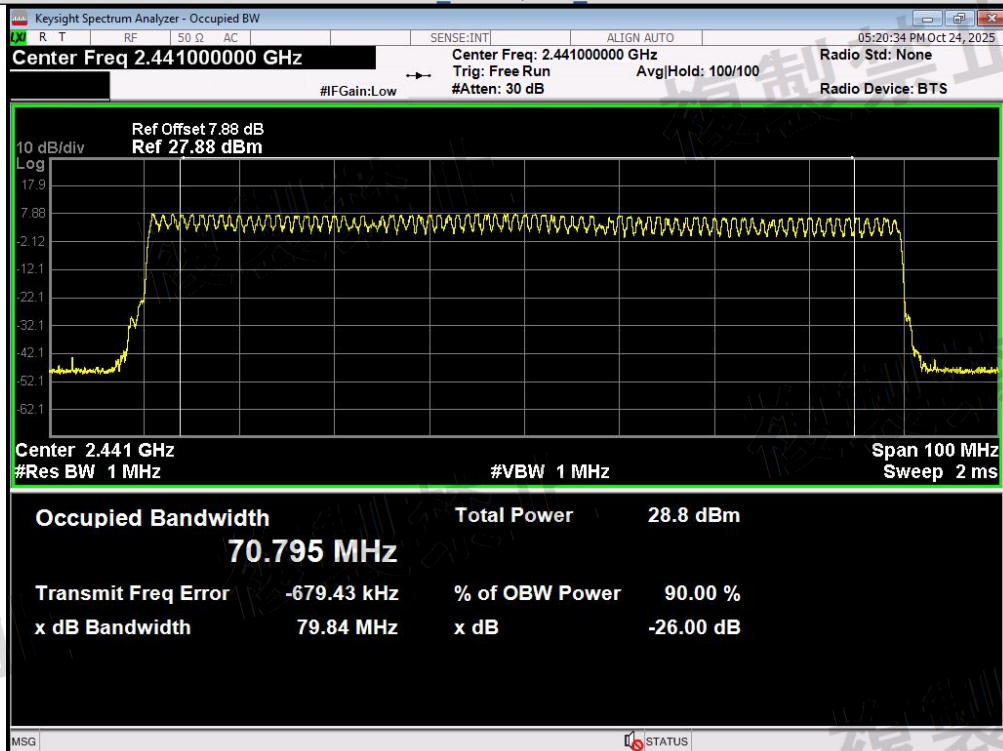
NT/NV_GFSK_DH5



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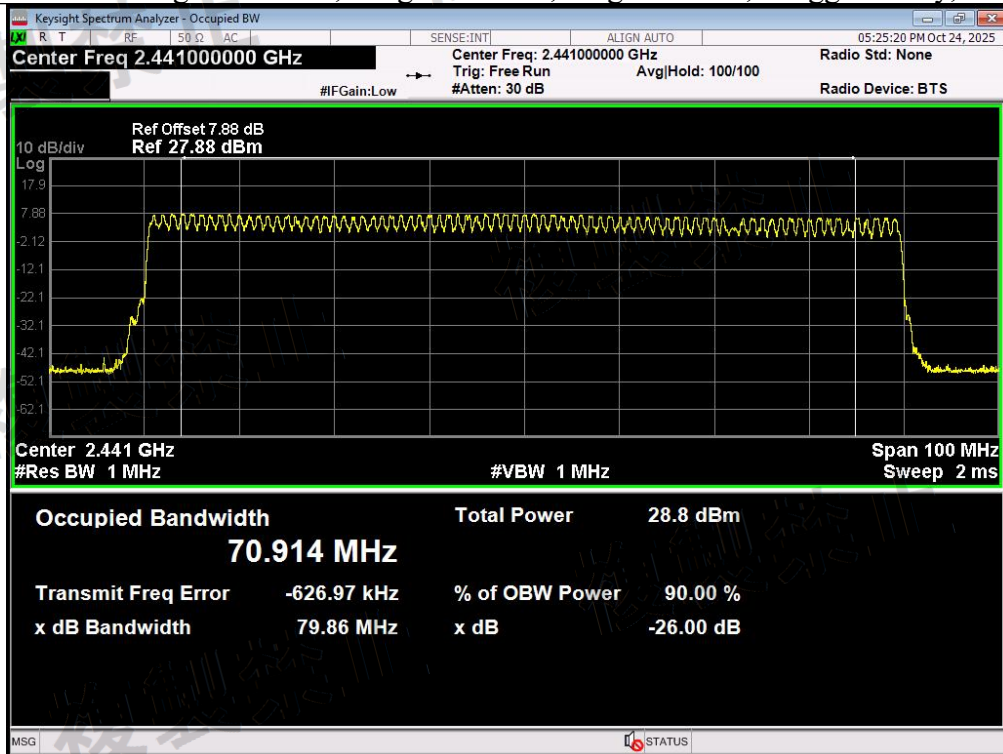
NT/NV_π/4DQPSK_2-DH1



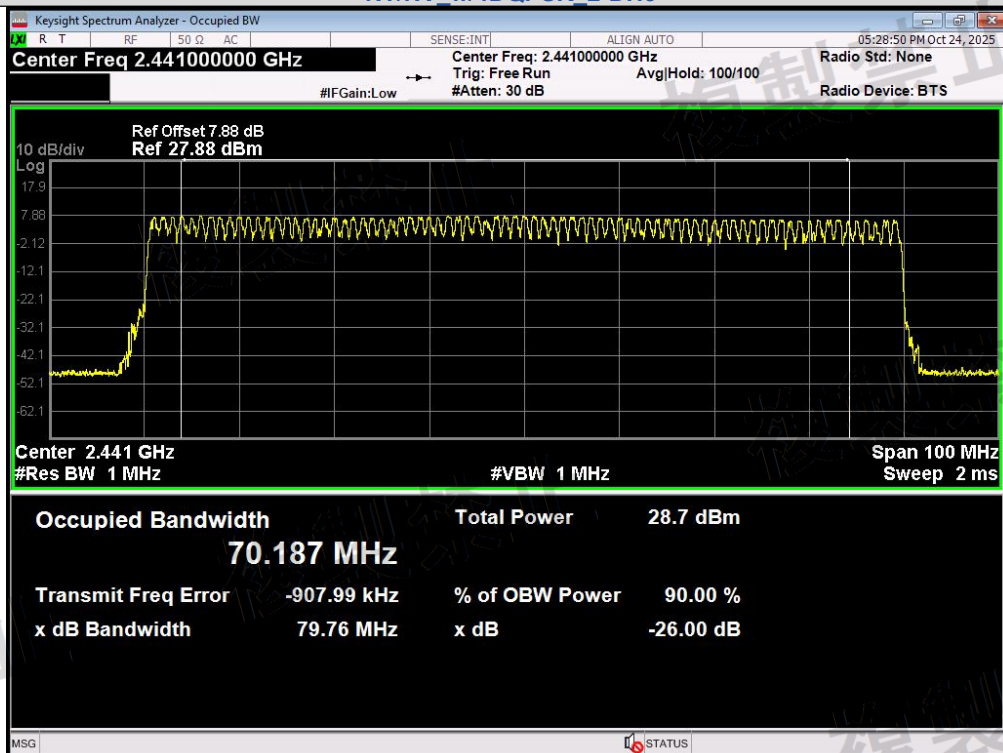
NT/NV_π/4DQPSK_2-DH3



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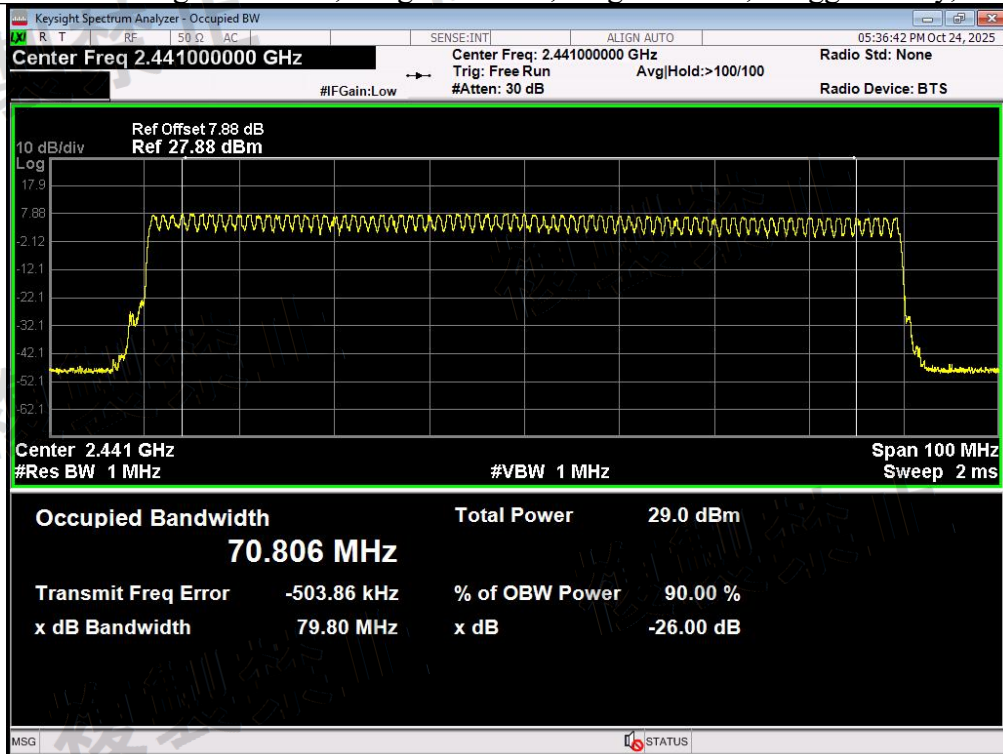
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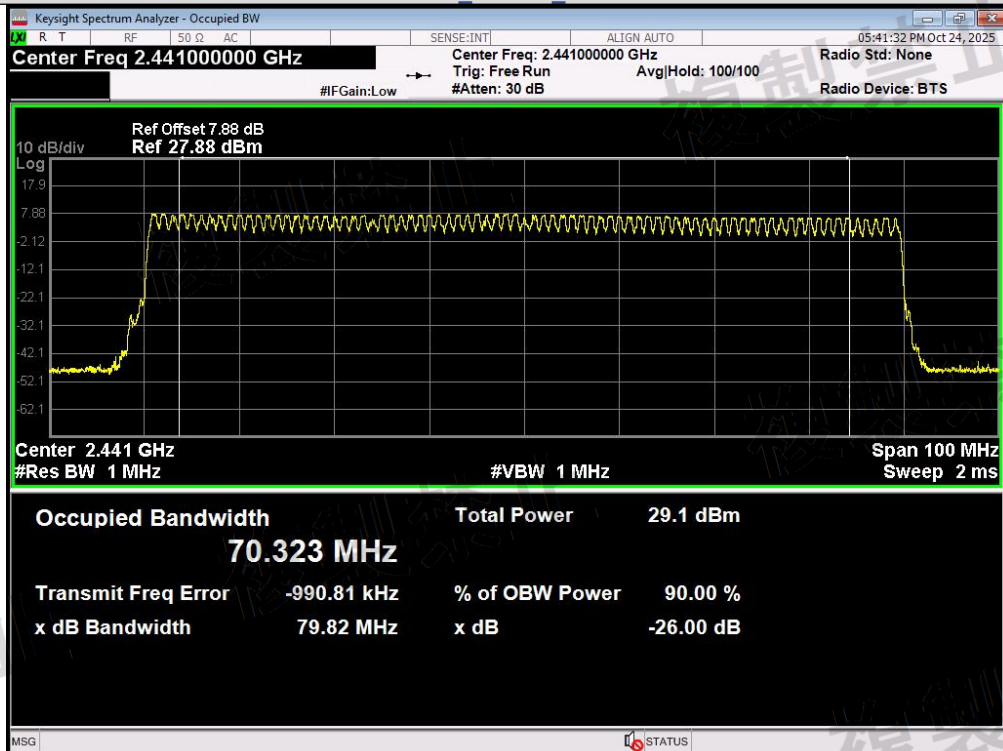
NT/NV_8DPSK_3-DH1



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NT/NV_8DPSK_3-DH3



NT/NV_8DPSK_3-DH5



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A.5 DWELL TIME

Test Result
Normal Mode

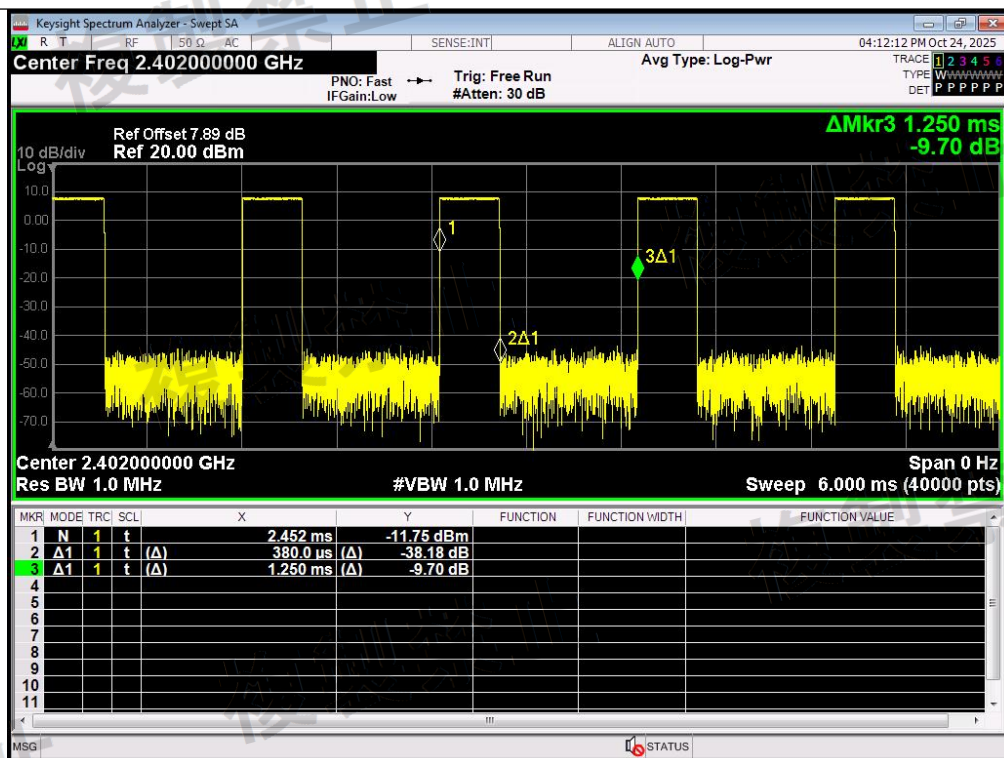
Condition	Modulation	Packet	Spreading Rate	(Spreading Rate / 79) * 0.4	Burst Ratio	Dwell Time (ms)	Limit (ms)	Result
NT/NV	GFSK	DH1	71.2999	0.361	0.304	109	400	PASS
		DH3	71.2999	0.361	0.656	236	400	PASS
		DH5	71.2999	0.361	0.768	277	400	PASS
	π/4DQPSK	2-DH1	70.8897	0.3589	0.312	111	400	PASS
		2-DH3	70.8897	0.3589	0.656	235	400	PASS
		2-DH5	70.8897	0.3589	0.771	276	400	PASS
	8DPSK	3-DH1	70.1871	0.3554	0.312	110	400	PASS
		3-DH3	70.1871	0.3554	0.656	233	400	PASS
		3-DH5	70.1871	0.3554	0.771	274	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



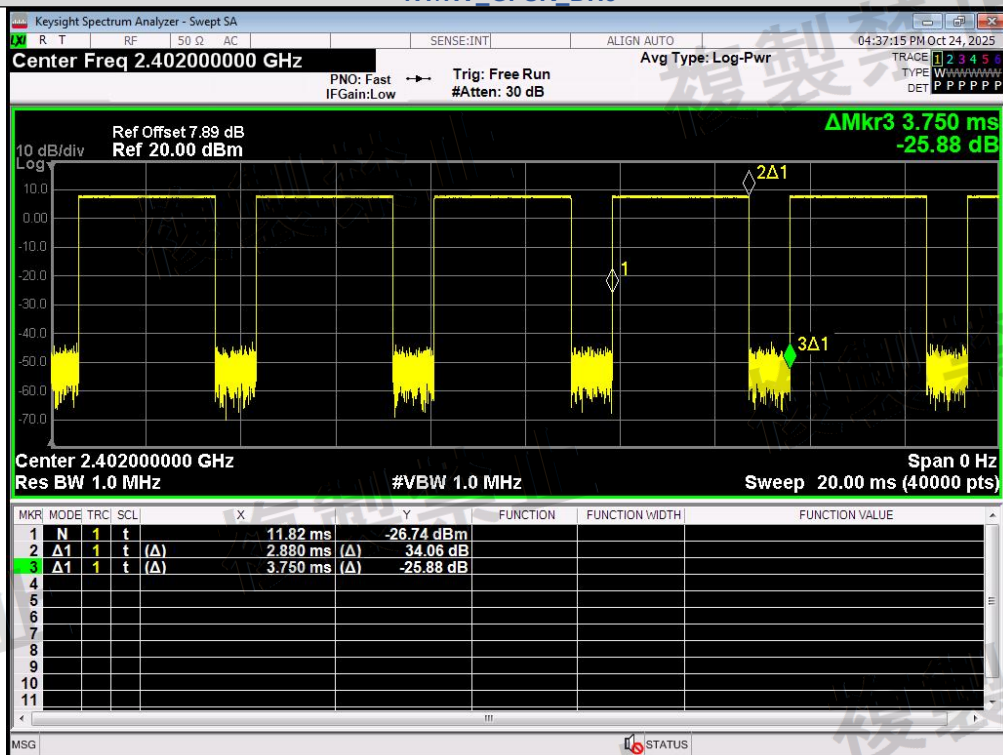
Dwell Time
NT/NV_GFSK_DH1



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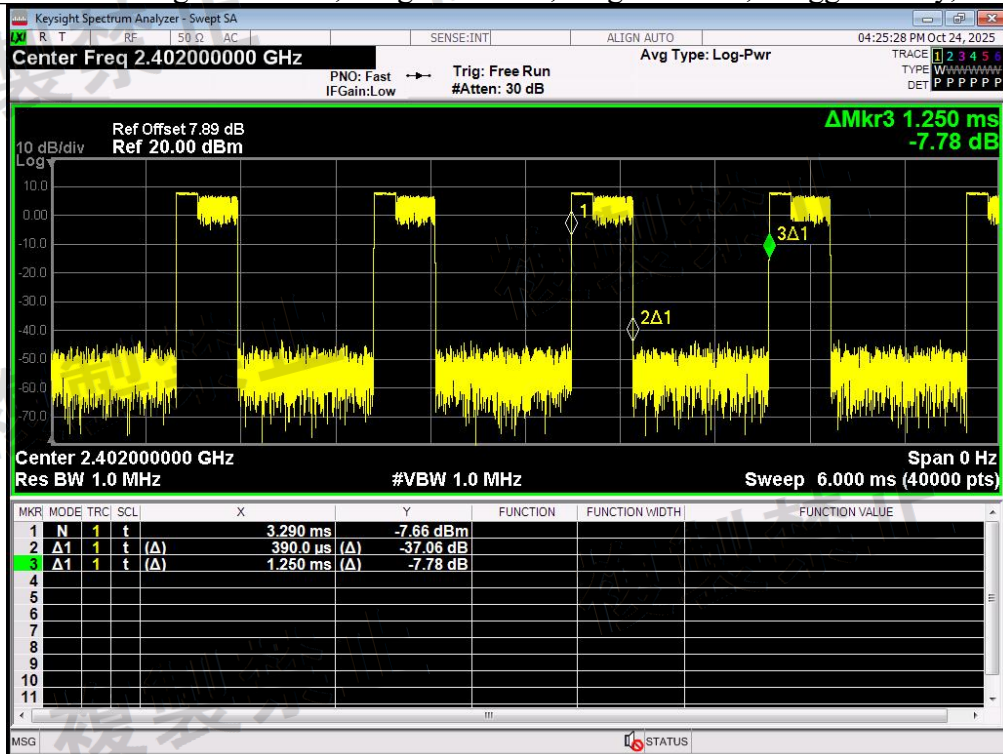
Dwell Time
NT/NV_GFSK_DH3



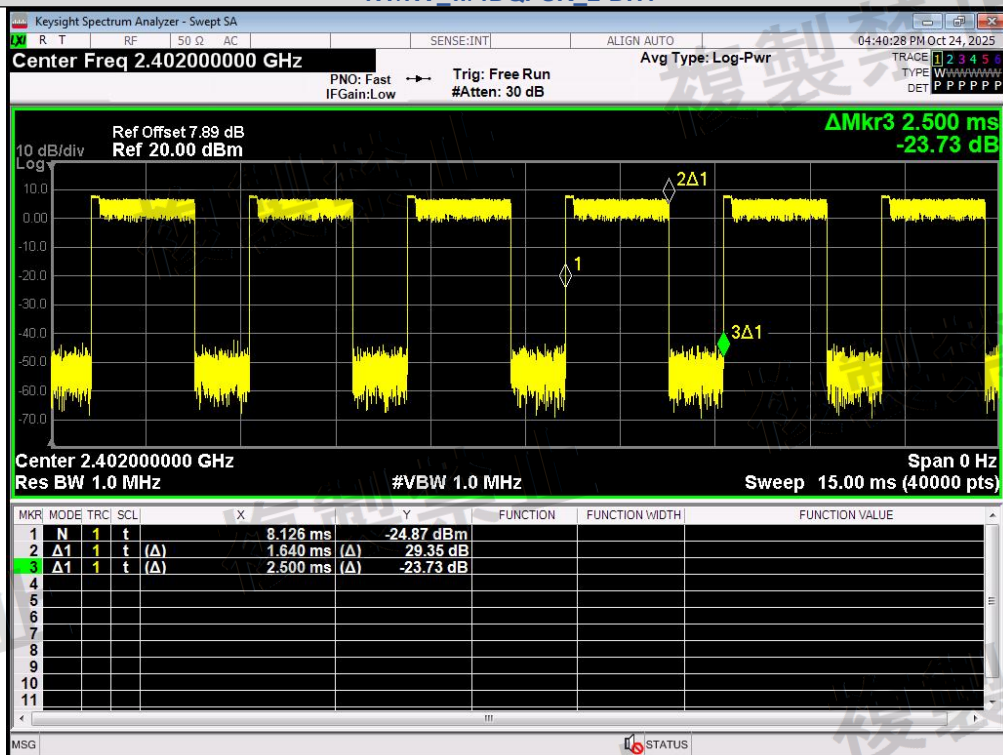
Dwell Time
NT/NV_GFSK_DH5



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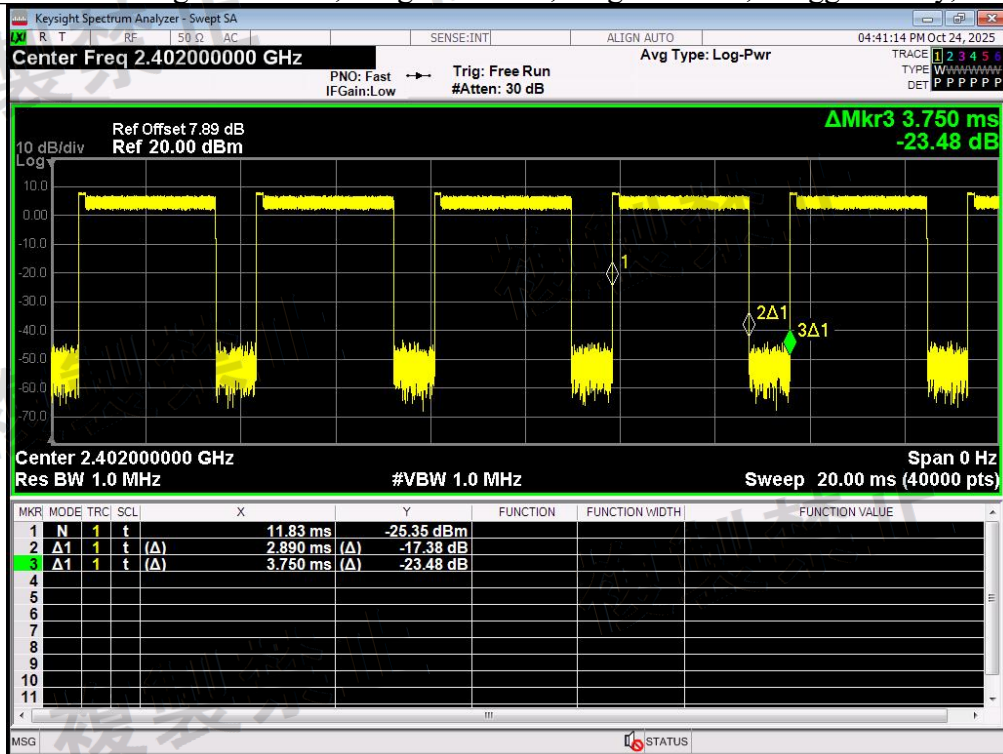
Dwell Time
NT/NV $\pi/4$ DQPSK 2-DH1



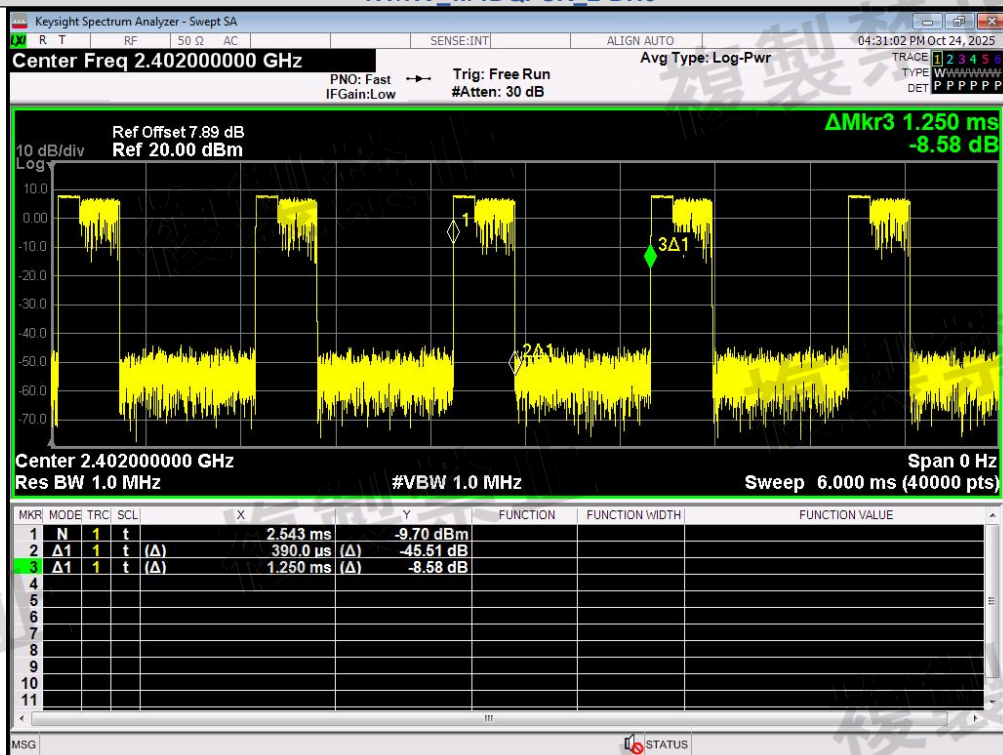
Dwell Time
NT/NV $\pi/4$ DQPSK 2-DH3



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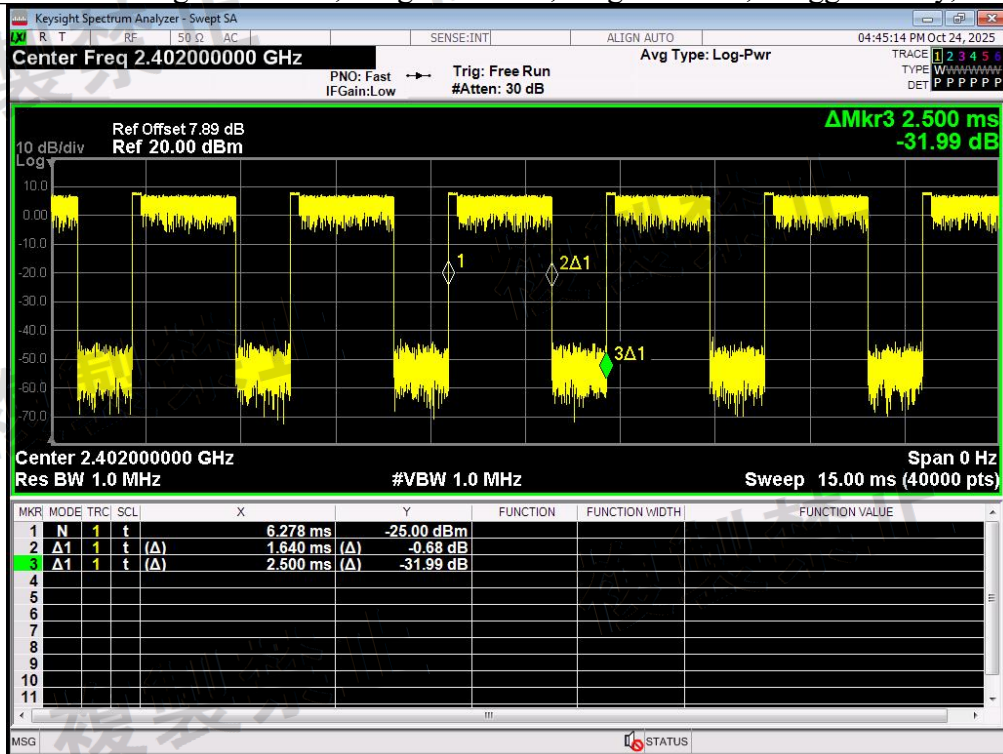
Dwell Time
NT/NV π/4DQPSK 2-DH5



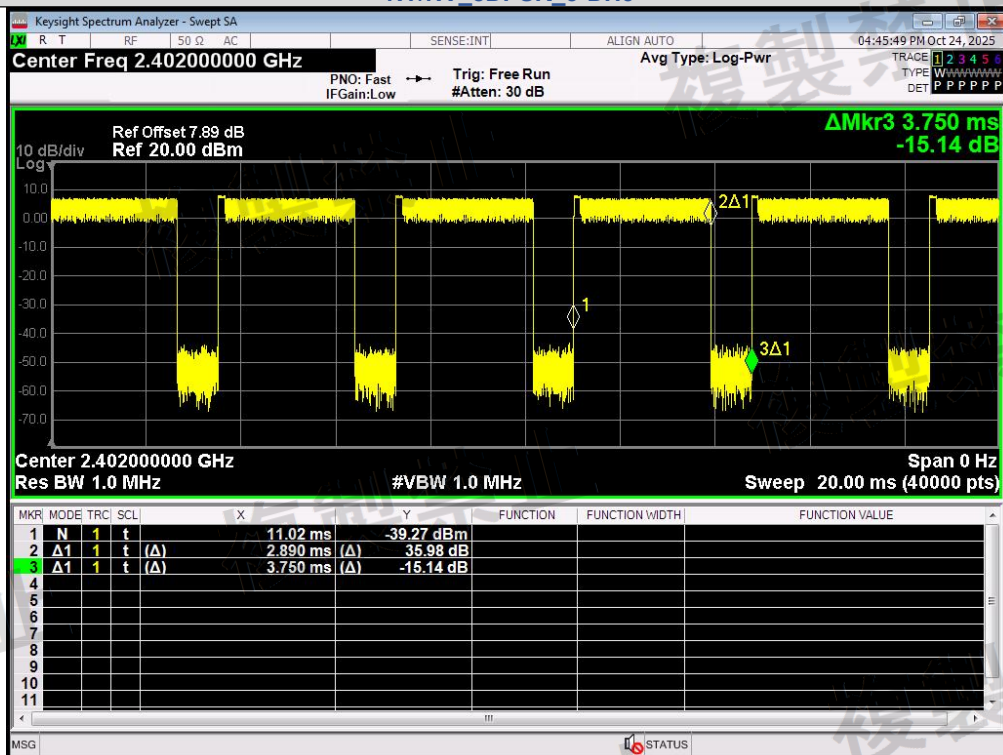
Dwell Time
NT/NV 8DPSK 3-DH1



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Dwell Time
NT/NV_8DPSK_3-DH3



Dwell Time
NT/NV_8DPSK_3-DH5



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A.6 SPURIOUS EMISSIONS

Test Result
GFSK_DH1

Condi on	Frequen cy Range	Lowest Channel			Middle Channel			Highest Channel			Limit (μ W/MH z)
		Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (μ W/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (μ W/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (μ W/MH z)	
NT/NV	30 to 1000	119.972	-48.078	0.016	120.021	-50.223	0.009	120.021	-49.430	0.011	0.25
NT/NV	1000 to 2387	2288.657	-52.129	0.006	2146.829	-51.221	0.008	2360.438	-50.787	0.008	2.5
NT/NV	2387 to 2400	2397.879	-51.879	0.006	2393.316	-50.826	0.008	2399.342	-50.987	0.008	25
NT/NV	2483.5 to 2496.5	2490.892	-51.760	0.007	2488.542	-50.746	0.008	2483.754	-44.423	0.036	25
NT/NV	2496.5 to 12500	3773.511	-54.246	0.004	2561.026	-52.627	0.005	2600.041	-45.918	0.026	2.5
Result:PASS											

π /4DQPSK_2-DH1

Condi on	Frequen cy Range	Lowest Channel			Middle Channel			Highest Channel			Limit (μ W/MH z)
		Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (μ W/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (μ W/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (μ W/MH z)	
NT/NV	30 to 1000	120.118	-51.018	0.008	120.021	-47.253	0.019	240.016	-49.919	0.01	0.25
NT/NV	1000 to 2387	2148.077	-52.503	0.006	1990.368	-50.284	0.009	2143.847	-50.405	0.009	2.5
NT/NV	2387 to 2400	2396.216	-51.517	0.007	2393.197	-50.866	0.008	2389.824	-50.933	0.008	25
NT/NV	2483.5 to 2496.5	2488.113	-51.948	0.006	2486.371	-50.383	0.009	2483.520	-44.315	0.037	25
NT/NV	2496.5 to 12500	2630.554	-50.338	0.009	9442.277	-54.100	0.004	8242.298	-53.977	0.004	2.5
Result:PASS											

8DPSK_3-DH1

Condi on	Frequen cy Range	Lowest Channel			Middle Channel			Highest Channel			Limit (μ W/MH z)
		Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (μ W/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (μ W/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (μ W/MH z)	
NT/NV	30 to 1000	120.069	-49.600	0.011	120.021	-47.296	0.019	120.021	-48.748	0.013	0.25
NT/NV	1000 to 2387	1945.149	-51.748	0.007	2321.253	-51.256	0.007	2150.089	-51.575	0.007	2.5
NT/NV	2387 to 2400	2387.577	-51.558	0.007	2392.707	-50.928	0.008	2395.456	-51.995	0.006	25
NT/NV	2483.5 to 2496.5	2491.388	-51.370	0.007	2489.004	-49.807	0.01	2483.698	-43.547	0.044	25
NT/NV	2496.5 to 12500	9955.483	-54.471	0.004	4882.454	-54.469	0.004	3838.036	-53.959	0.004	2.5
Result:PASS											

Hopping

Mode	Ch.	Range	Peak (MHz)	Emission (dBm)	Limit	Margin (dBm)	Result
GFSK_DH1	Hopping	30 to 1000	119.971999	-48.078	-36	-12.08	PASS
GFSK_DH1	Hopping	1000 to 2387	2288.656783	-52.129	-26	-26.13	PASS
GFSK_DH1	Hopping	2387 to 2400	2397.878944	-51.879	-16	-35.88	PASS
GFSK_DH1	Hopping	2483.5 to 2496.5	2490.89217	-51.76	-16	-35.76	PASS

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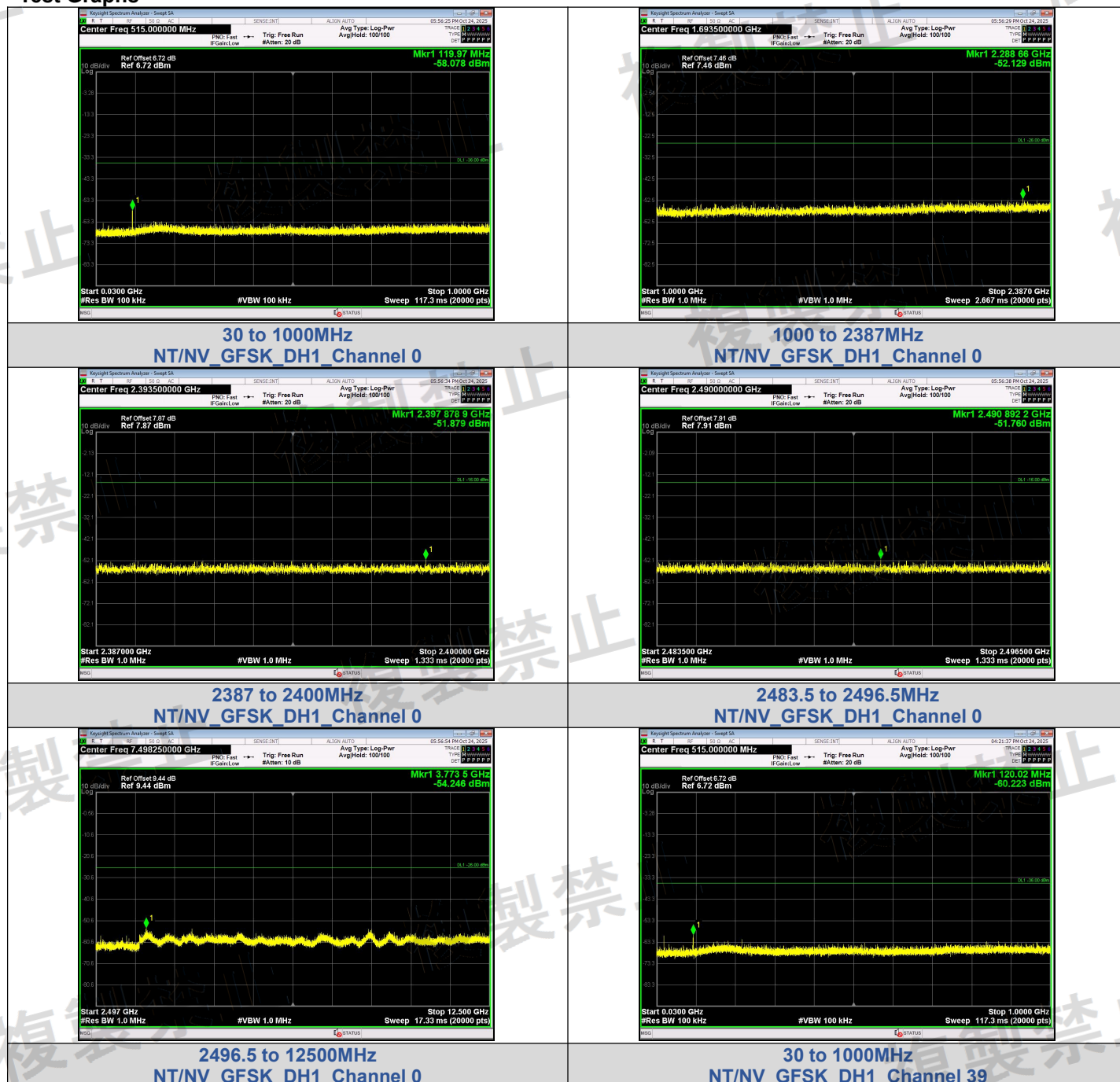
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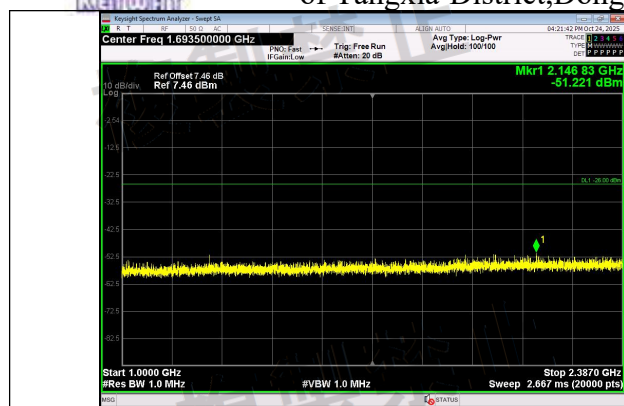
GFSK_DH1	Hopping	2496.5 to 12500	3773.510626	-54.246	-26	-28.25	PASS
$\pi/4$ DQPSK_2-DH1	Hopping	30 to 1000	120.117506	-51.018	-36	-15.02	PASS
$\pi/4$ DQPSK_2-DH1	Hopping	1000 to 2387	2148.077304	-52.503	-26	-26.5	PASS
$\pi/4$ DQPSK_2-DH1	Hopping	2387 to 2400	2396.215511	-51.517	-16	-35.52	PASS
$\pi/4$ DQPSK_2-DH1	Hopping	2483.5 to 2496.5	2488.112631	-51.948	-16	-35.95	PASS
$\pi/4$ DQPSK_2-DH1	Hopping	2496.5 to 12500	2630.553603	-50.338	-26	-24.34	PASS
8DPSK_3-DH1	Hopping	30 to 1000	120.069003	-49.6	-36	-13.6	PASS
8DPSK_3-DH1	Hopping	1000 to 2387	1945.149057	-51.748	-26	-25.75	PASS
8DPSK_3-DH1	Hopping	2387 to 2400	2387.576579	-51.558	-16	-35.56	PASS
8DPSK_3-DH1	Hopping	2483.5 to 2496.5	2491.388144	-51.37	-16	-35.37	PASS
8DPSK_3-DH1	Hopping	2496.5 to 12500	9955.482549	-54.471	-26	-28.47	PASS

Test Graphs

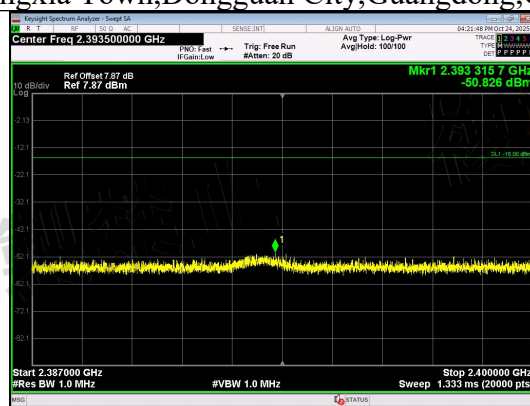




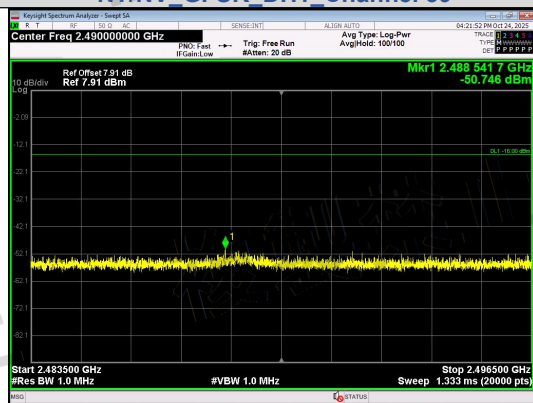
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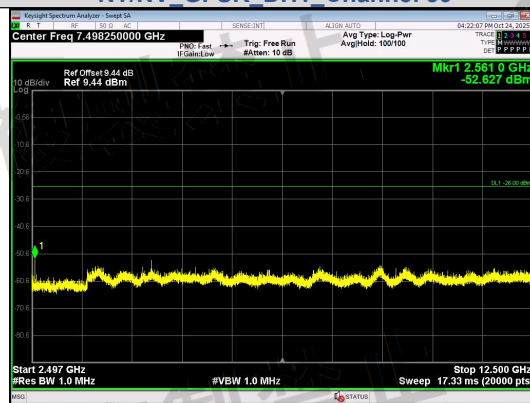
1000 to 2387MHz
NT/NV_GFSK_DH1_Channel 39



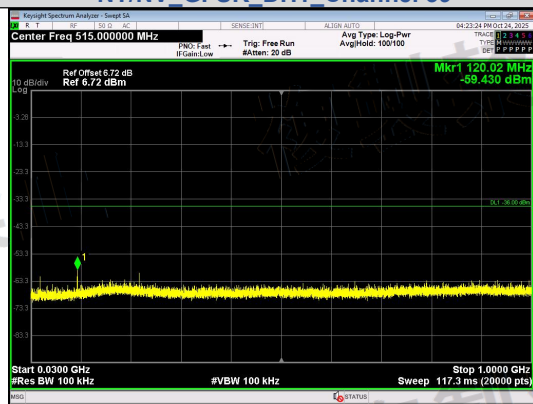
2387 to 2400MHz
NT/NV_GFSK_DH1_Channel 39



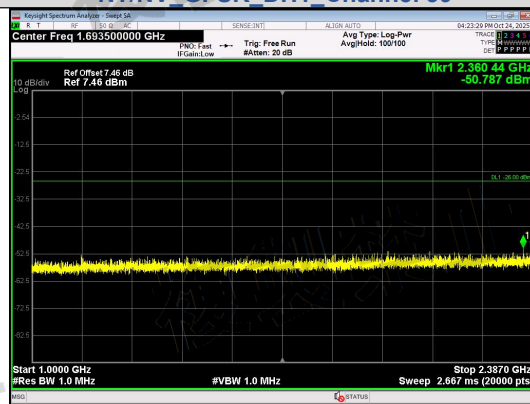
2483.5 to 2496.5MHz
NT/NV_GFSK_DH1_Channel 39



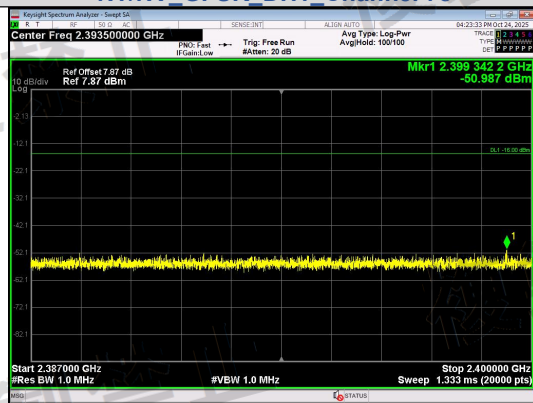
2496.5 to 12500MHz
NT/NV_GFSK_DH1_Channel 39



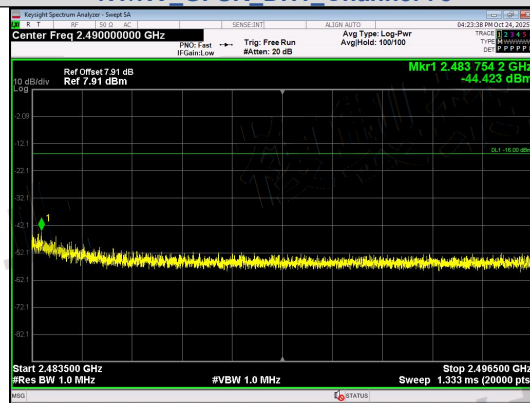
30 to 1000MHz
NT/NV_GFSK_DH1_Channel 78



1000 to 2387MHz
NT/NV_GFSK_DH1_Channel 78



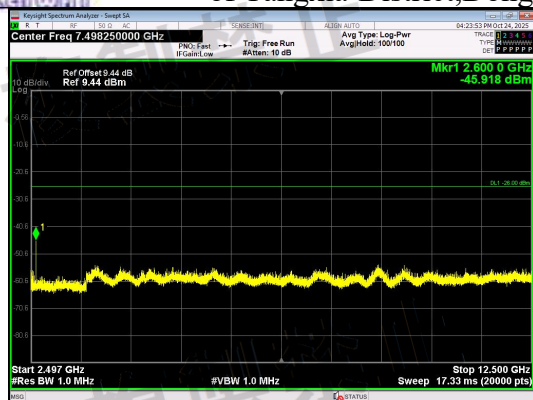
2387 to 2400MHz
NT/NV_GFSK_DH1_Channel 78



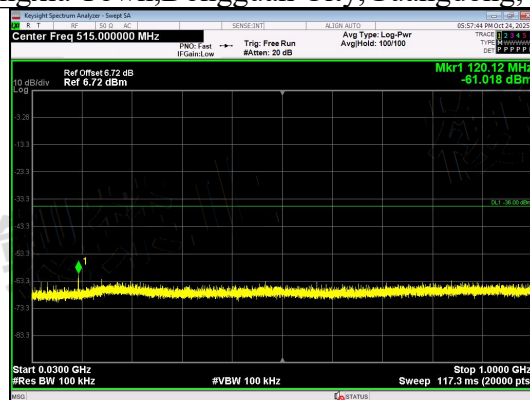
2483.5 to 2496.5MHz
NT/NV_GFSK_DH1_Channel 78



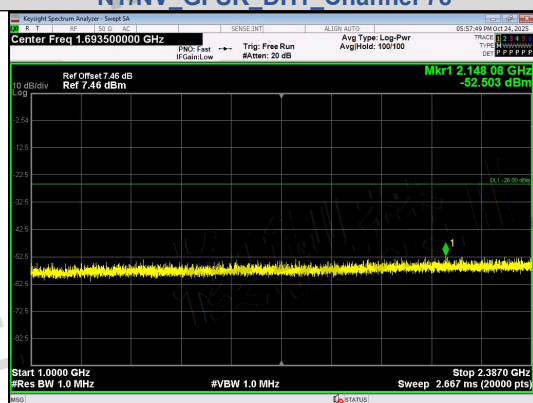
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of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China



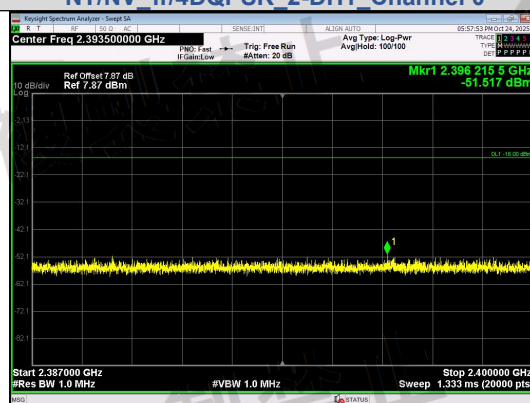
2496.5 to 12500MHz
NT/NV_GFSK_DH1_Channel 78



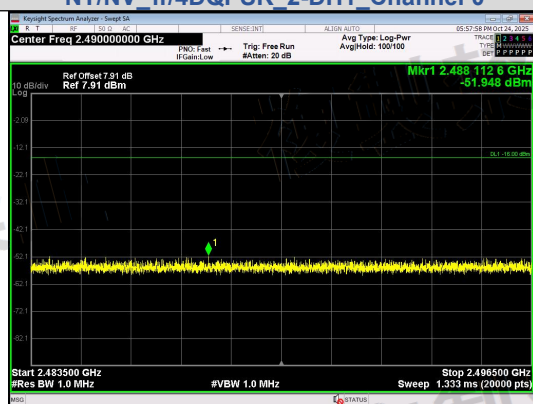
30 to 1000MHz
NT/NV_π/4QPSK_2-DH1_Channel 0



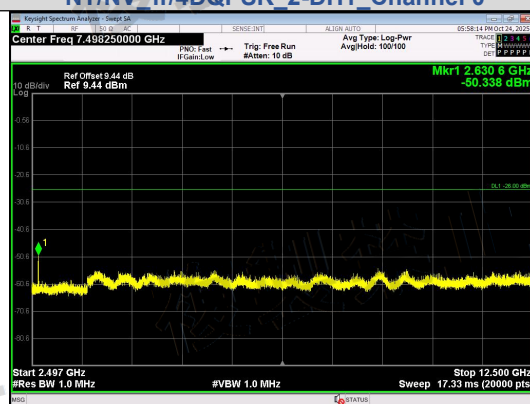
1000 to 2387MHz
NT/NV_π/4QPSK_2-DH1_Channel 0



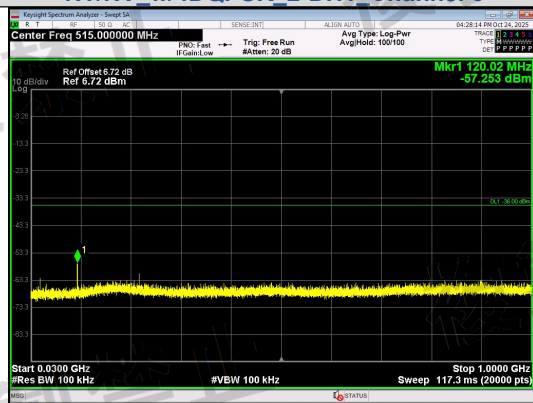
2387 to 2400MHz
NT/NV_π/4QPSK_2-DH1_Channel 0



2483.5 to 2496.5MHz
NT/NV_π/4QPSK_2-DH1_Channel 0



2496.5 to 12500MHz
NT/NV_π/4QPSK_2-DH1_Channel 0



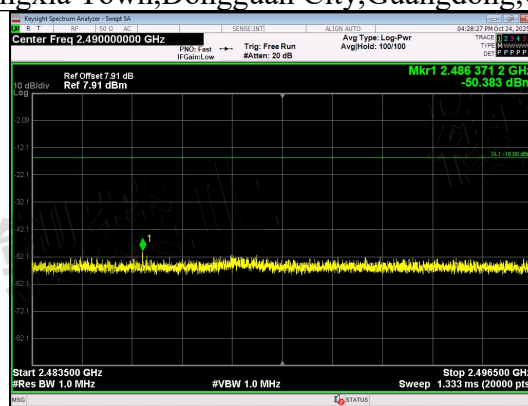
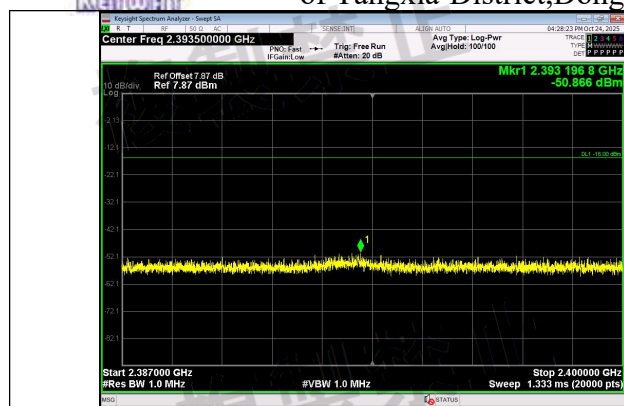
30 to 1000MHz
NT/NV_π/4QPSK_2-DH1_Channel 39



1000 to 2387MHz
NT/NV_π/4QPSK_2-DH1_Channel 39

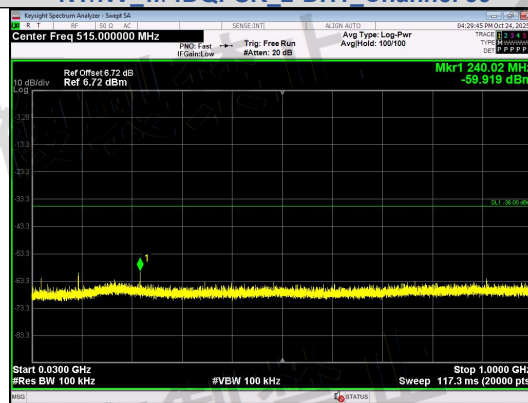
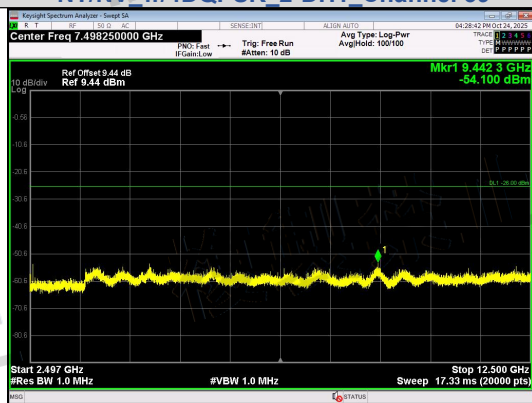


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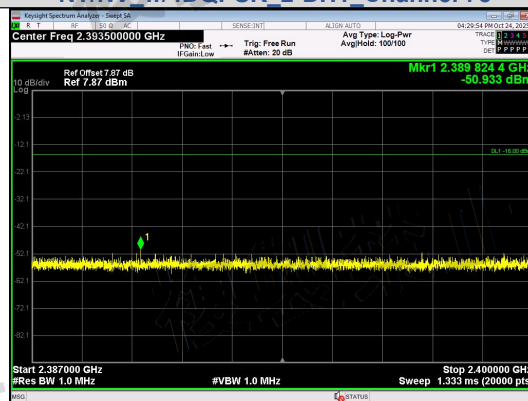
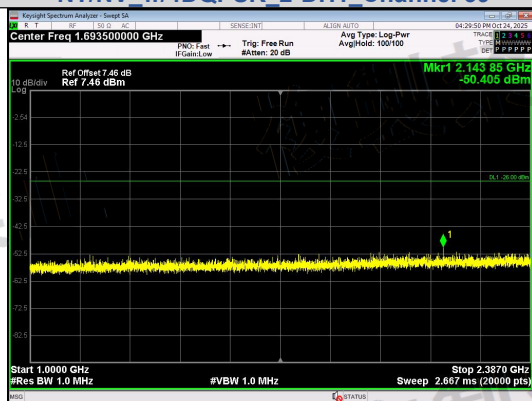
2387 to 2400MHz
NT/NV_π/4QPSK_2-DH1_Channel 39

2483.5 to 2496.5MHz
NT/NV_π/4QPSK_2-DH1_Channel 39



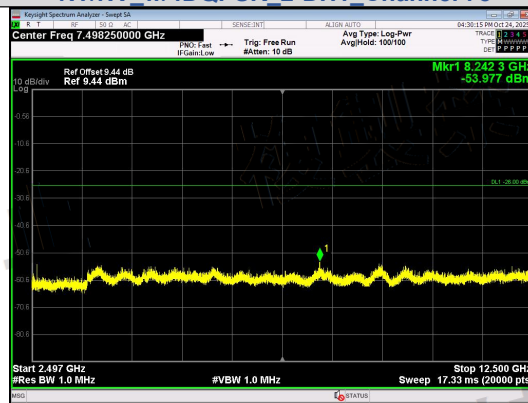
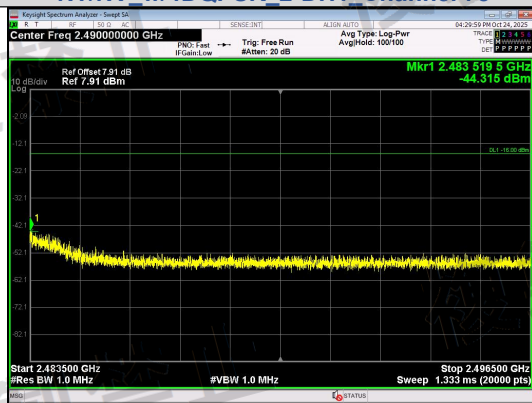
2496.5 to 12500MHz
NT/NV_π/4QPSK_2-DH1_Channel 39

30 to 1000MHz
NT/NV_π/4QPSK_2-DH1_Channel 78



1000 to 2387MHz
NT/NV_π/4QPSK_2-DH1_Channel 78

2387 to 2400MHz
NT/NV_π/4QPSK_2-DH1_Channel 78

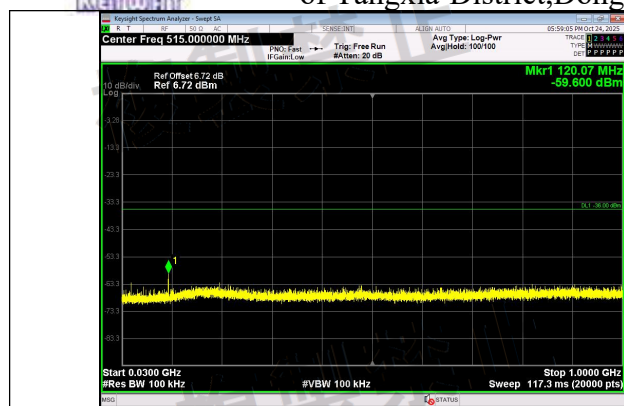


2483.5 to 2496.5MHz
NT/NV_π/4QPSK_2-DH1_Channel 78

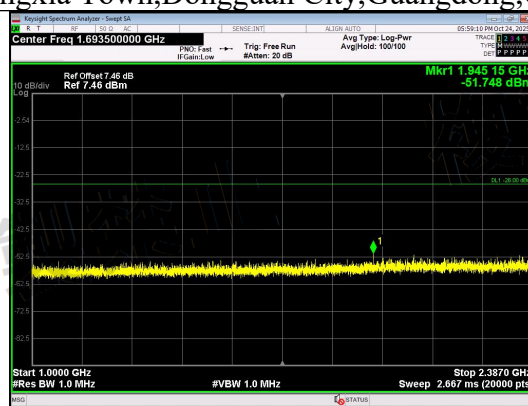
2496.5 to 12500MHz
NT/NV_π/4QPSK_2-DH1_Channel 78



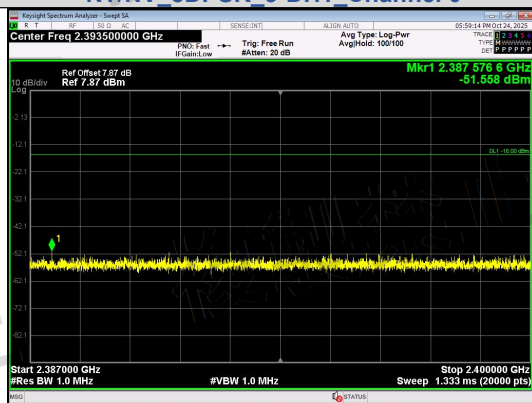
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of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China



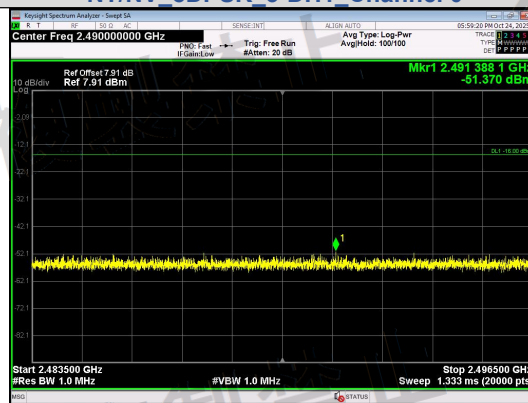
30 to 1000MHz
NT/NV_8DPSK_3-DH1_Channel 0



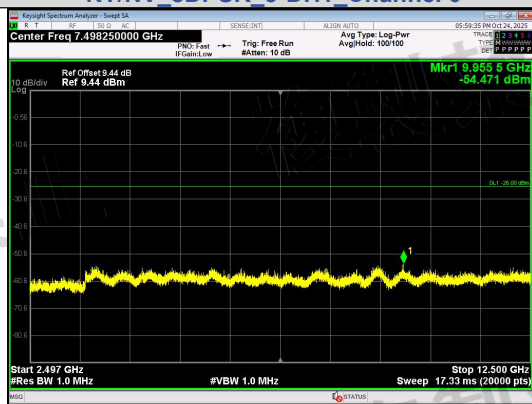
1000 to 2387MHz
NT/NV_8DPSK_3-DH1_Channel 0



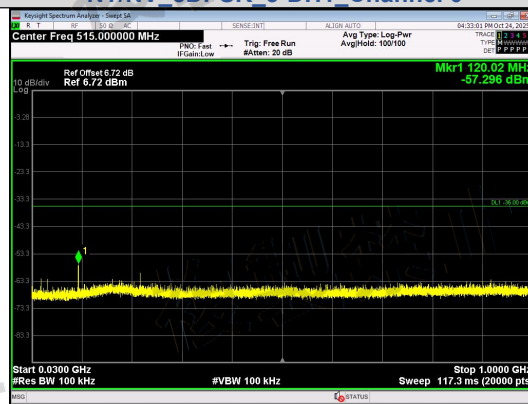
2387 to 2400MHz
NT/NV_8DPSK_3-DH1_Channel 0



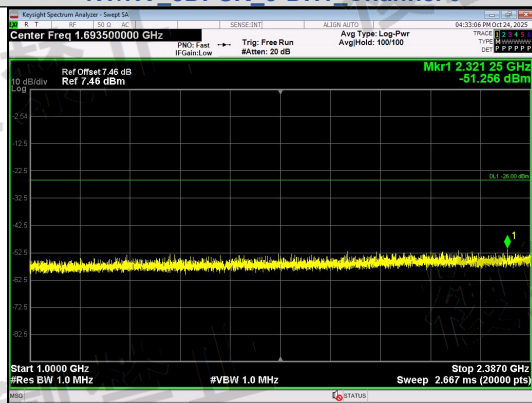
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NT/NV_8DPSK_3-DH1_Channel 0



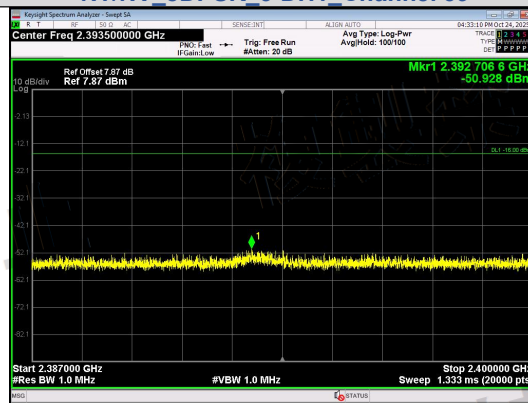
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NT/NV_8DPSK_3-DH1_Channel 0



30 to 1000MHz
NT/NV_8DPSK_3-DH1_Channel 39



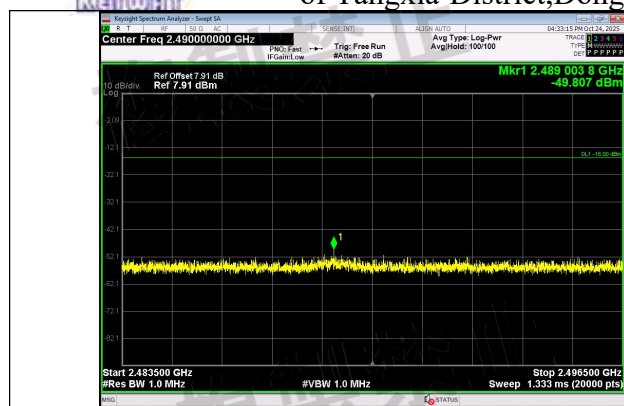
1000 to 2387MHz
NT/NV_8DPSK_3-DH1_Channel 39



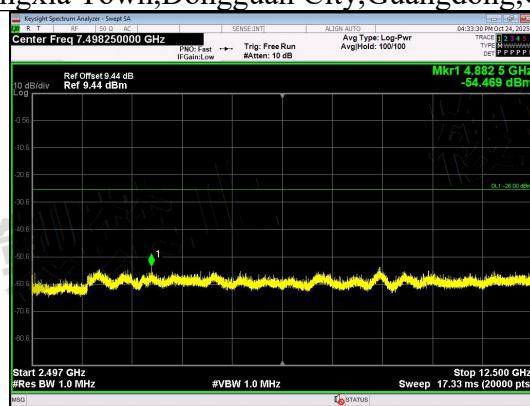
2387 to 2400MHz
NT/NV_8DPSK_3-DH1_Channel 39



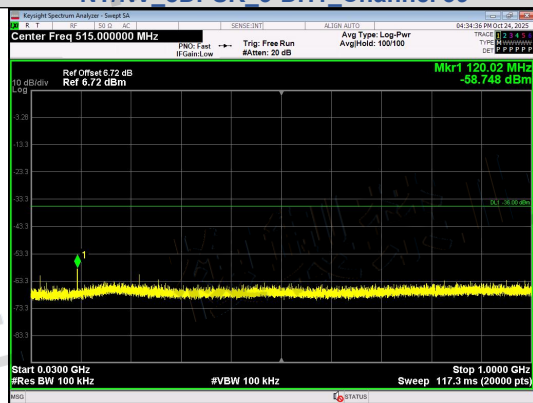
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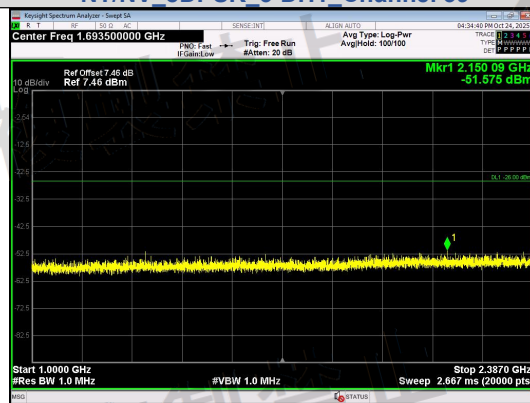
2483.5 to 2496.5MHz
NT/NV_8DPSK_3-DH1_Channel 39



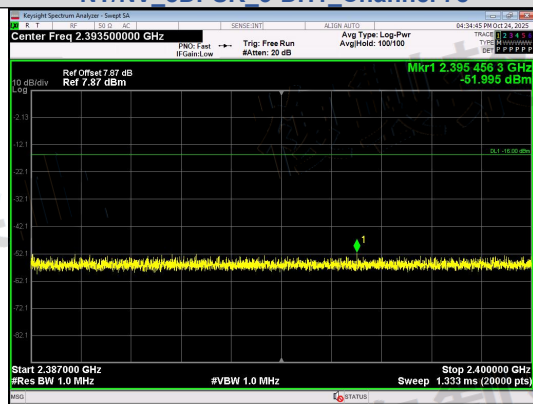
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NT/NV_8DPSK_3-DH1_Channel 39



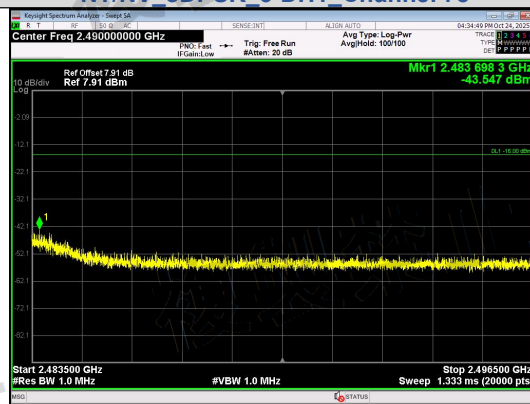
30 to 1000MHz
NT/NV_8DPSK_3-DH1_Channel 78



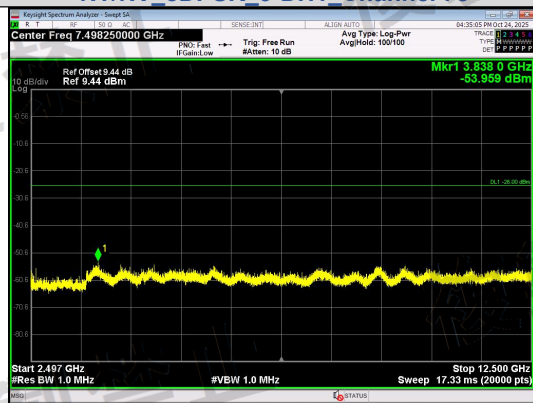
1000 to 2387MHz
NT/NV_8DPSK_3-DH1_Channel 78



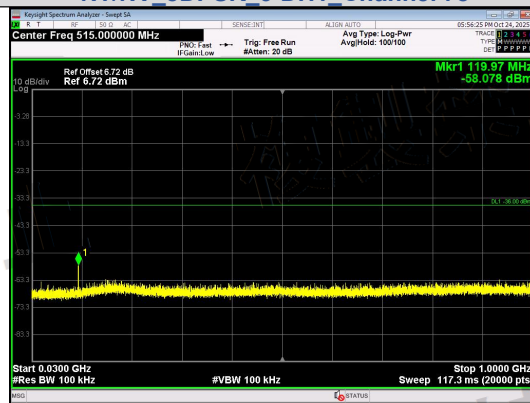
2387 to 2400MHz
NT/NV_8DPSK_3-DH1_Channel 78



2483.5 to 2496.5MHz
NT/NV_8DPSK_3-DH1_Channel 78



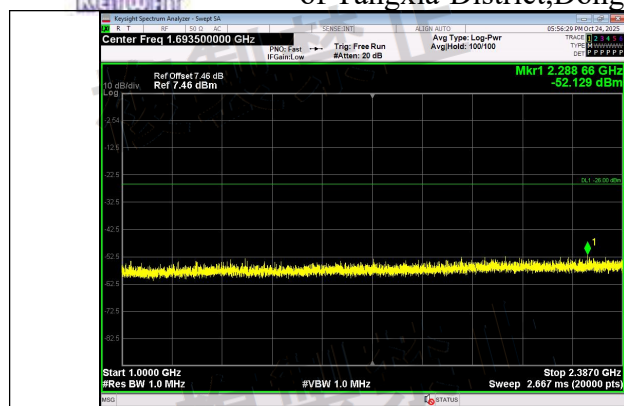
2496.5 to 12500MHz
NT/NV_8DPSK_3-DH1_Channel 78



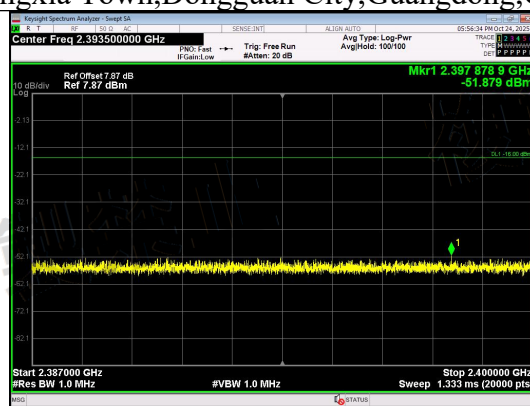
30 to 1000MHz
NT/NV_GFSK_DH1_Channel 0



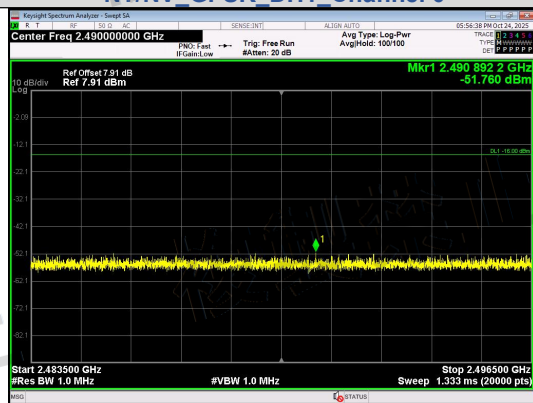
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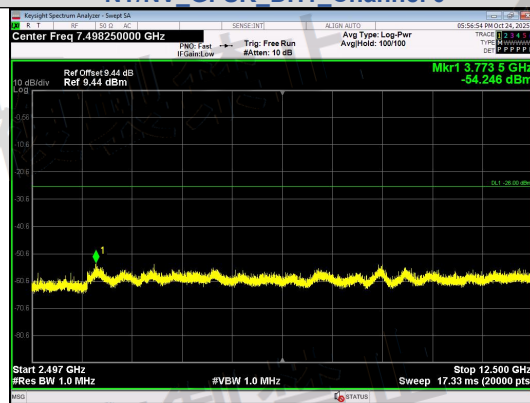
1000 to 2387MHz
NT/NV_GFSK_DH1_Channel 0



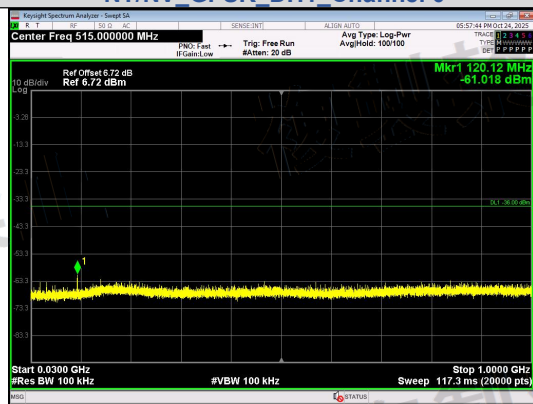
2387 to 2400MHz
NT/NV_GFSK_DH1_Channel 0



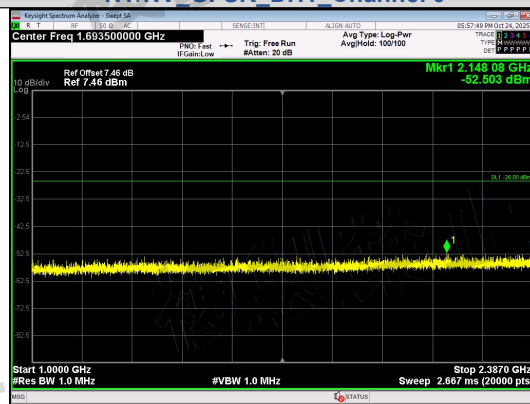
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NT/NV_GFSK_DH1_Channel 0



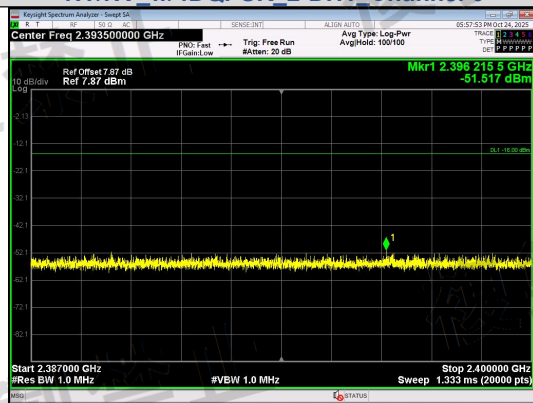
2496.5 to 12500MHz
NT/NV_GFSK_DH1_Channel 0



30 to 1000MHz
NT/NV_pi/4DQPSK_2-DH1_Channel 0



1000 to 2387MHz
NT/NV_pi/4DQPSK_2-DH1_Channel 0



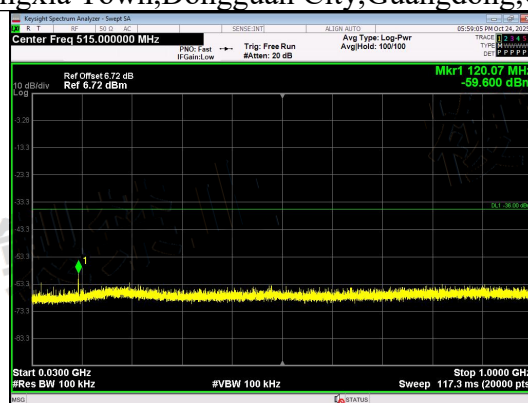
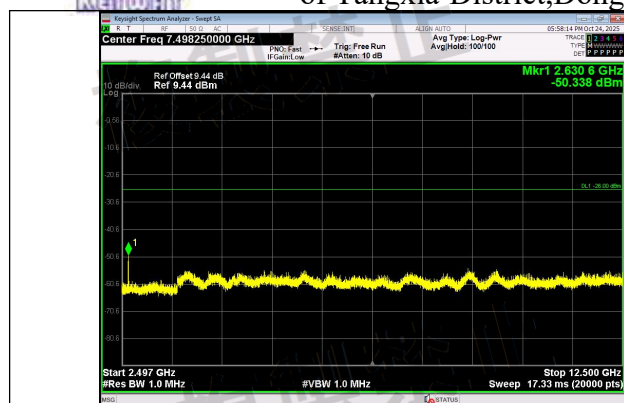
2387 to 2400MHz
NT/NV_pi/4DQPSK_2-DH1_Channel 0



2483.5 to 2496.5MHz
NT/NV_pi/4DQPSK_2-DH1_Channel 0

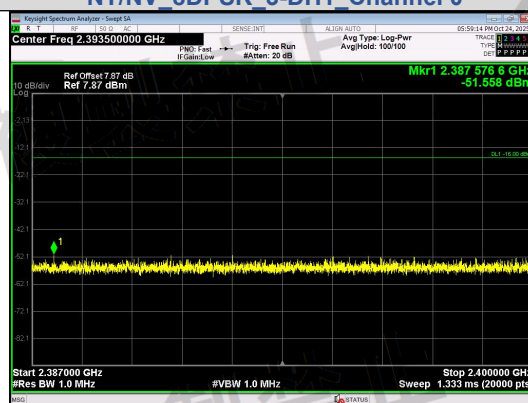
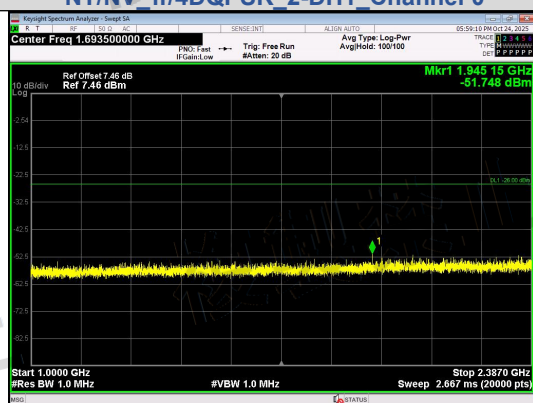


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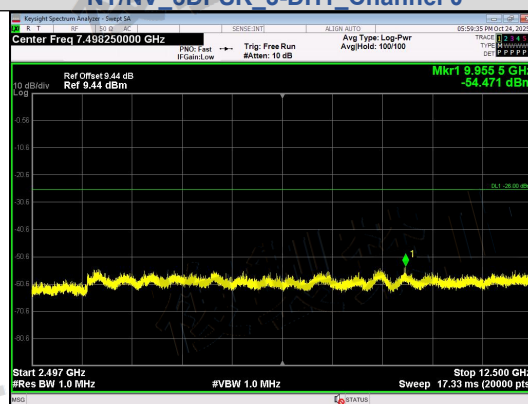
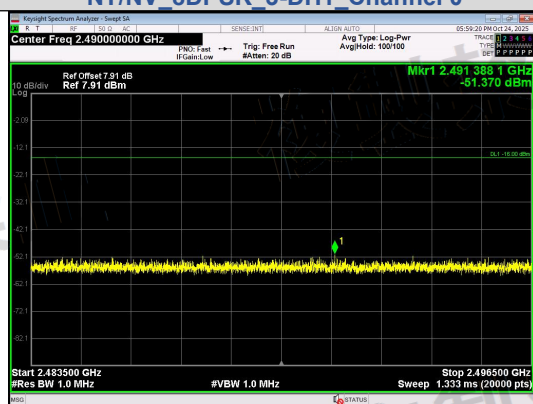
2496.5 to 12500MHz
NT/NV 8DPSK 2-DH1 Channel 0

30 to 1000MHz
NT/NV 8DPSK 3-DH1 Channel 0



1000 to 2387MHz
NT/NV 8DPSK 3-DH1 Channel 0

2387 to 2400MHz
NT/NV 8DPSK 3-DH1 Channel 0



2483.5 to 2496.5MHz
NT/NV 8DPSK 3-DH1 Channel 0

2496.5 to 12500MHz
NT/NV 8DPSK 3-DH1 Channel 0



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A.7 SPURIOUS EMISSIONS OF RECEIVER

Test Result

Normal mode_GFSK_DH1

Condi tion	Frequen cy Range (MHz)	Lowest Channel			Middle Channel			Highest Channel			Limit (nW/MH z)
		Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (nW/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (nW/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (nW/MH z)	
NT/NV	30 to 1000	120.00 5	-57.812	1.655	119.95 5	-61.112	0.774	120.00 5	-57.834	1.647	4
NT/NV	1000 to 12500	2419.5 31	-59.424	1.142	2419.9 14	-58.104	1.547	3845.9 62	-65.809	0.262	20
Result:PASS											

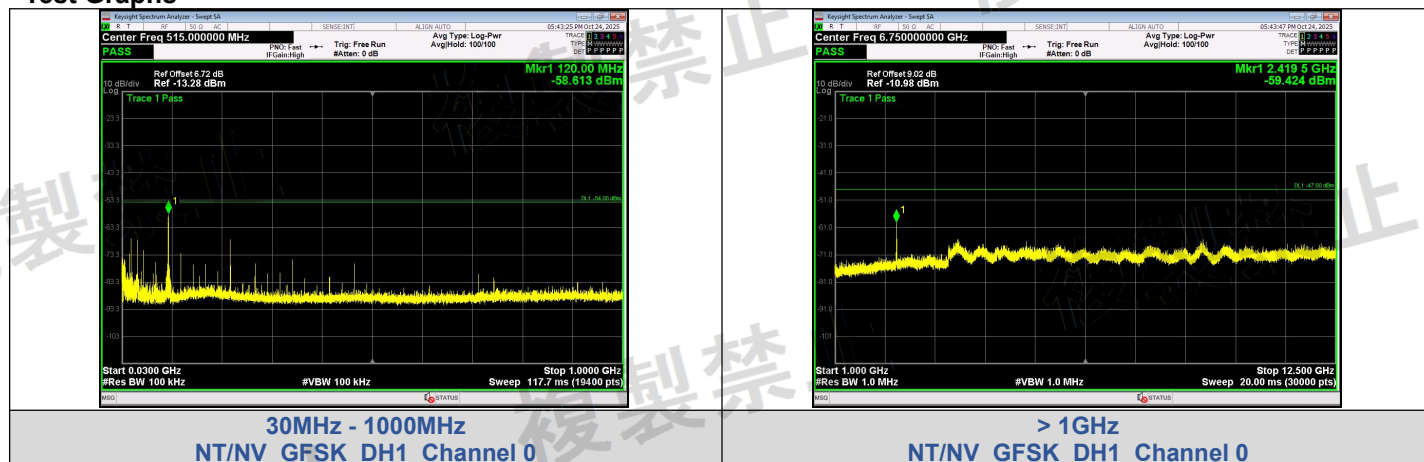
Normal mode_π/4DQPSK_2-DH1

Condi tion	Frequen cy Range (MHz)	Lowest Channel			Middle Channel			Highest Channel			Limit (nW/MH z)
		Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (nW/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (nW/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (nW/MH z)	
NT/NV	30 to 1000	120.00 5	-57.812	1.655	120.05 5	-61.315	0.739	120.00 5	-57.773	1.67	4
NT/NV	1000 to 12500	2411.0 97	-58.376	1.453	5310.7 27	-65.005	0.316	2410.3 30	-58.696	1.35	20
Result:PASS											

Normal mode_8DPSK_3-DH1

Condi tion	Frequen cy Range (MHz)	Lowest Channel			Middle Channel			Highest Channel			Limit (nW/MH z)
		Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (nW/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (nW/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (nW/MH z)	
NT/NV	30 to 1000	120.00 5	-57.799	1.66	120.00 5	-57.817	1.653	119.95 5	-58.625	1.372	4
NT/NV	1000 to 12500	9453.1 65	-65.614	0.275	3813.7 60	-66.013	0.25	9391.4 46	-65.613	0.275	20
Result:PASS											

Test Graphs

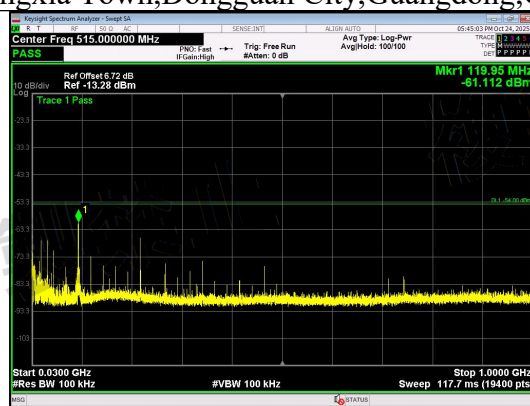




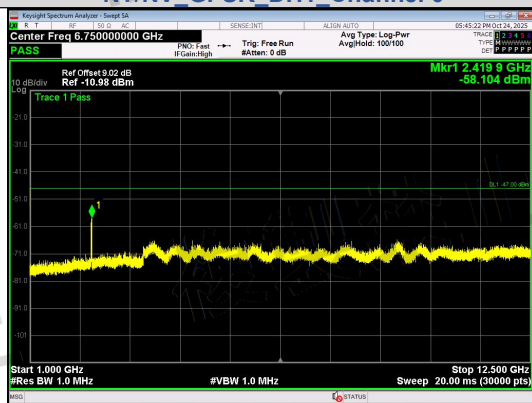
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21 Floor,Building 6,Dongyi Intelligent Equipment New Energy Vehicle Park,N.30
of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China



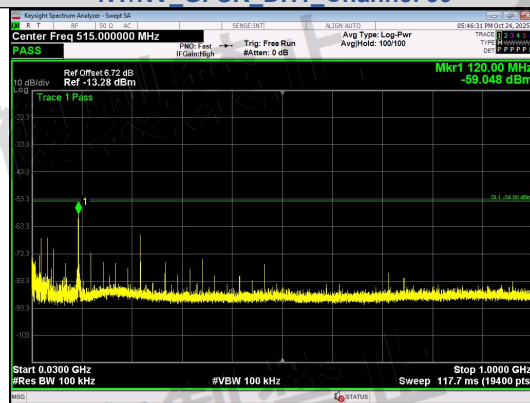
Unwant Emission Frequency: 120.0MHz
NT/NV_GFSK_DH1_Channel 0



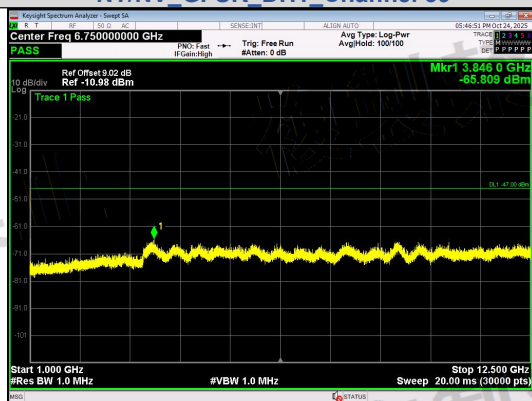
30MHz - 1000MHz
NT/NV_GFSK_DH1_Channel 39



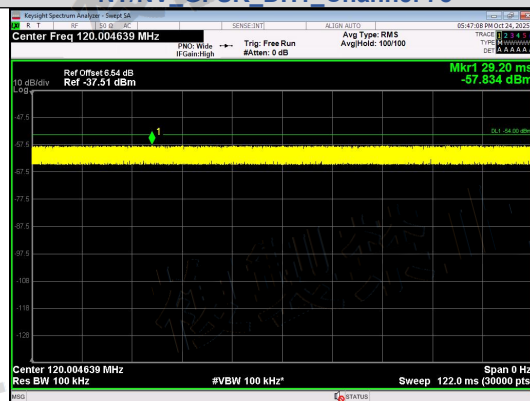
> 1GHz
NT/NV_GFSK_DH1_Channel 39



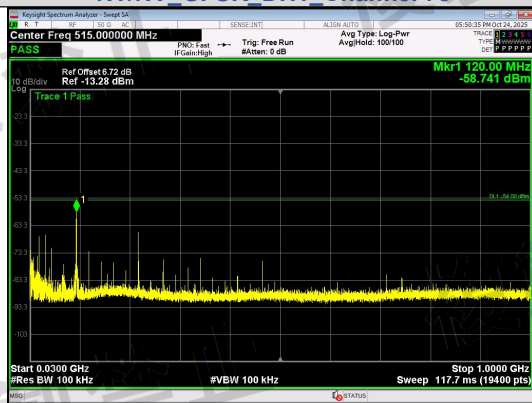
30MHz - 1000MHz
NT/NV_GFSK_DH1_Channel 78



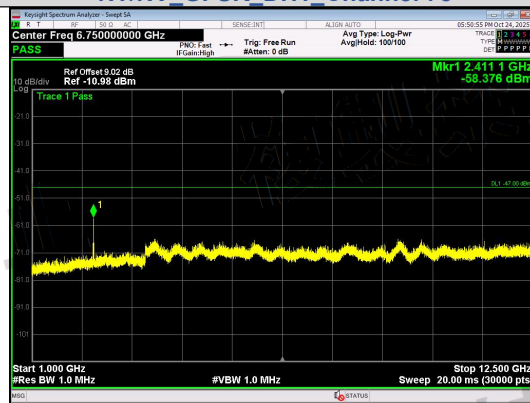
> 1GHz
NT/NV_GFSK_DH1_Channel 78



Unwant Emission Frequency: 120.0MHz
NT/NV_GFSK_DH1_Channel 78



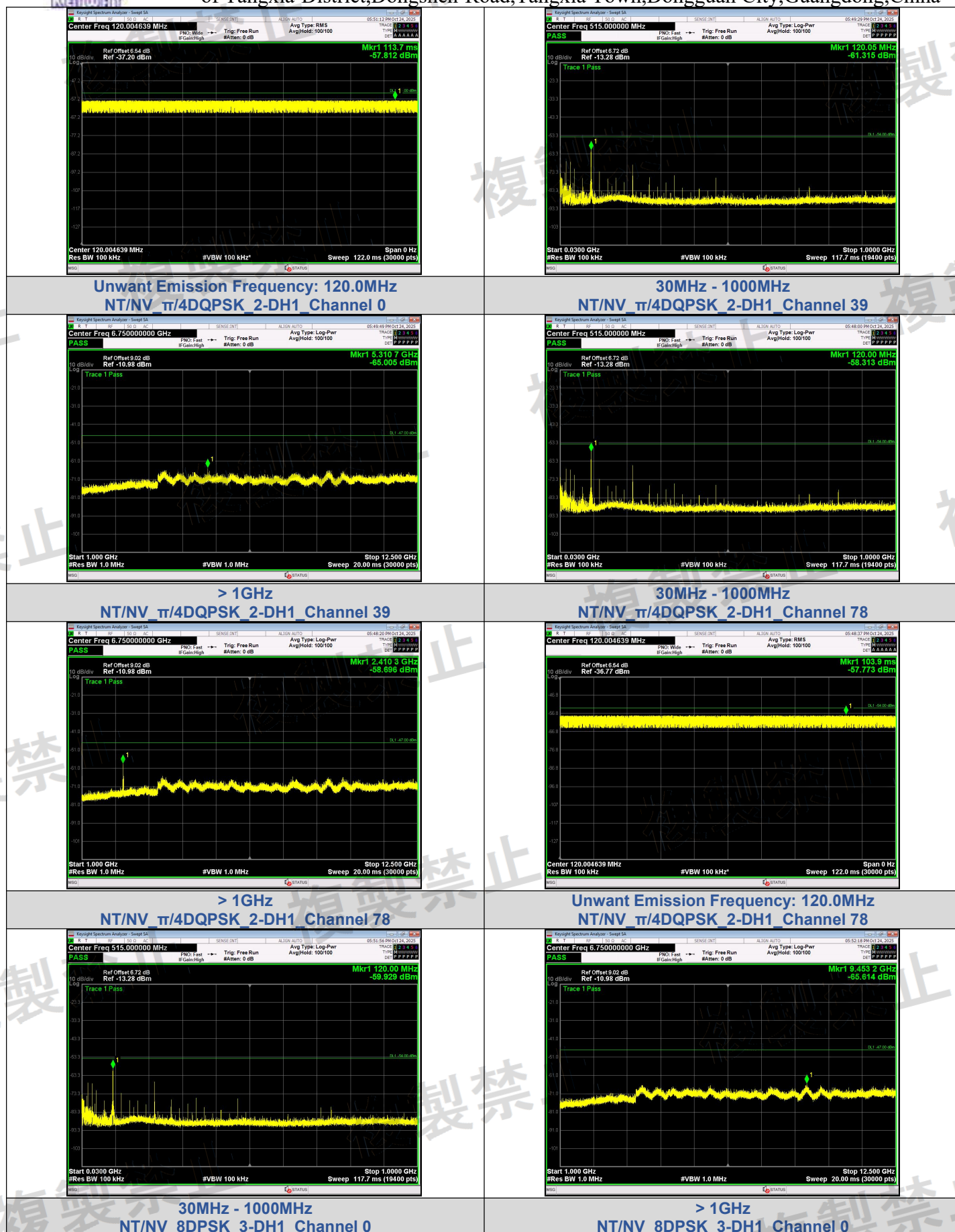
30MHz - 1000MHz
NT/NV_pi/4DQPSK_2-DH1_Channel 0



> 1GHz
NT/NV_pi/4DQPSK_2-DH1_Channel 0

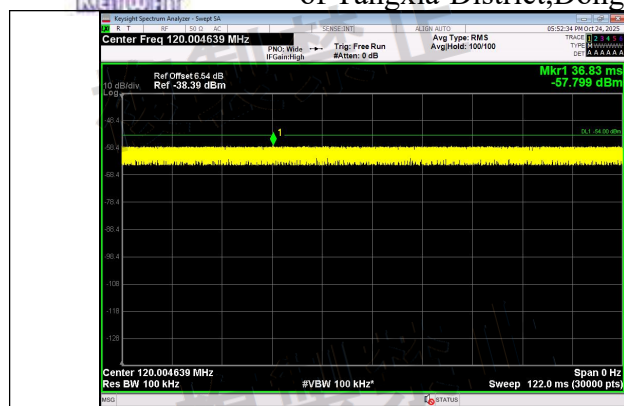


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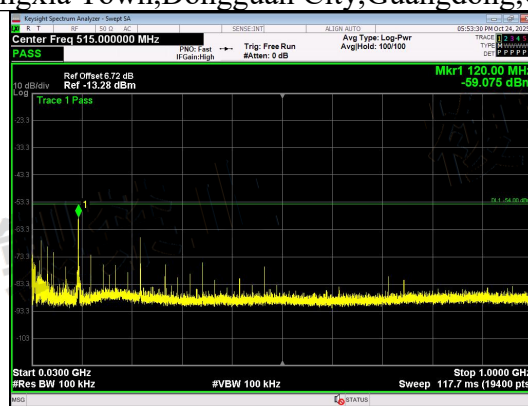




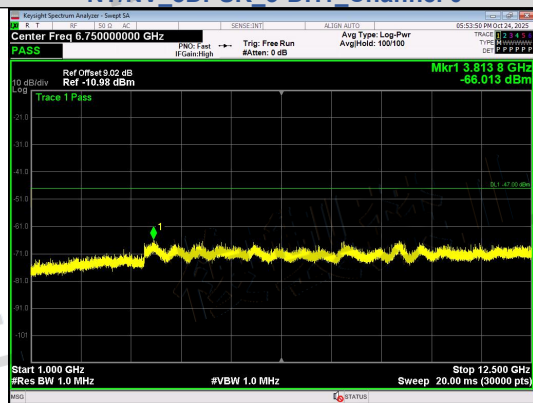
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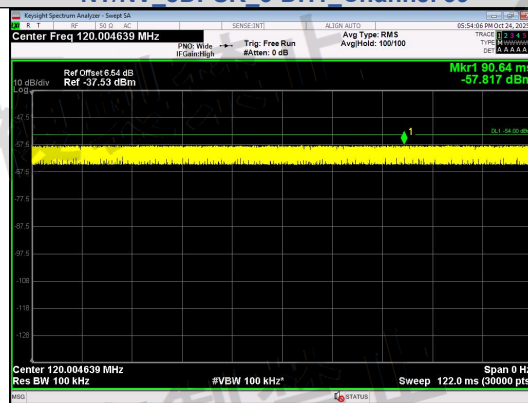
Unwant Emission Frequency: 120.0MHz
NT/NV_8DPSK_3-DH1_Channel 0



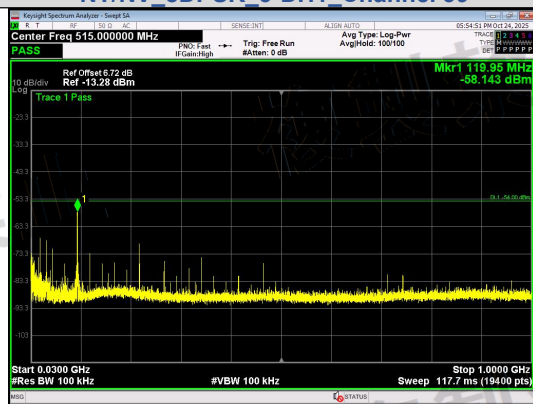
30MHz - 1000MHz
NT/NV_8DPSK_3-DH1_Channel 39



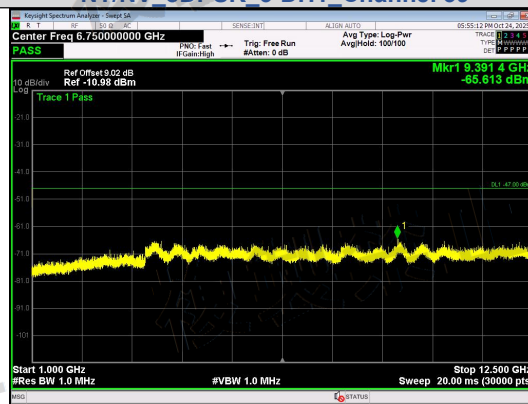
> 1GHz
NT/NV_8DPSK_3-DH1_Channel 39



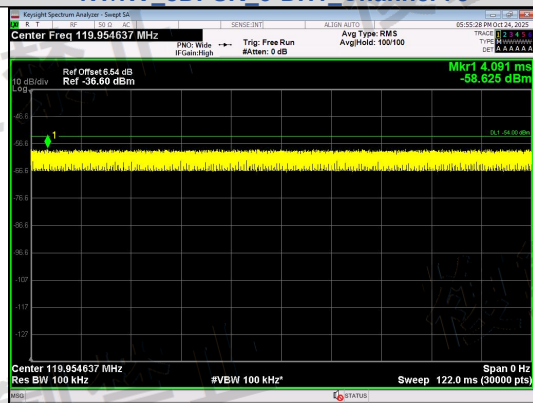
Unwant Emission Frequency: 120.0MHz
NT/NV_8DPSK_3-DH1_Channel 39



30MHz - 1000MHz
NT/NV_8DPSK_3-DH1_Channel 78



> 1GHz
NT/NV_8DPSK_3-DH1_Channel 78



Unwant Emission Frequency: 119.95MHz
NT/NV_8DPSK_3-DH1_Channel 78