

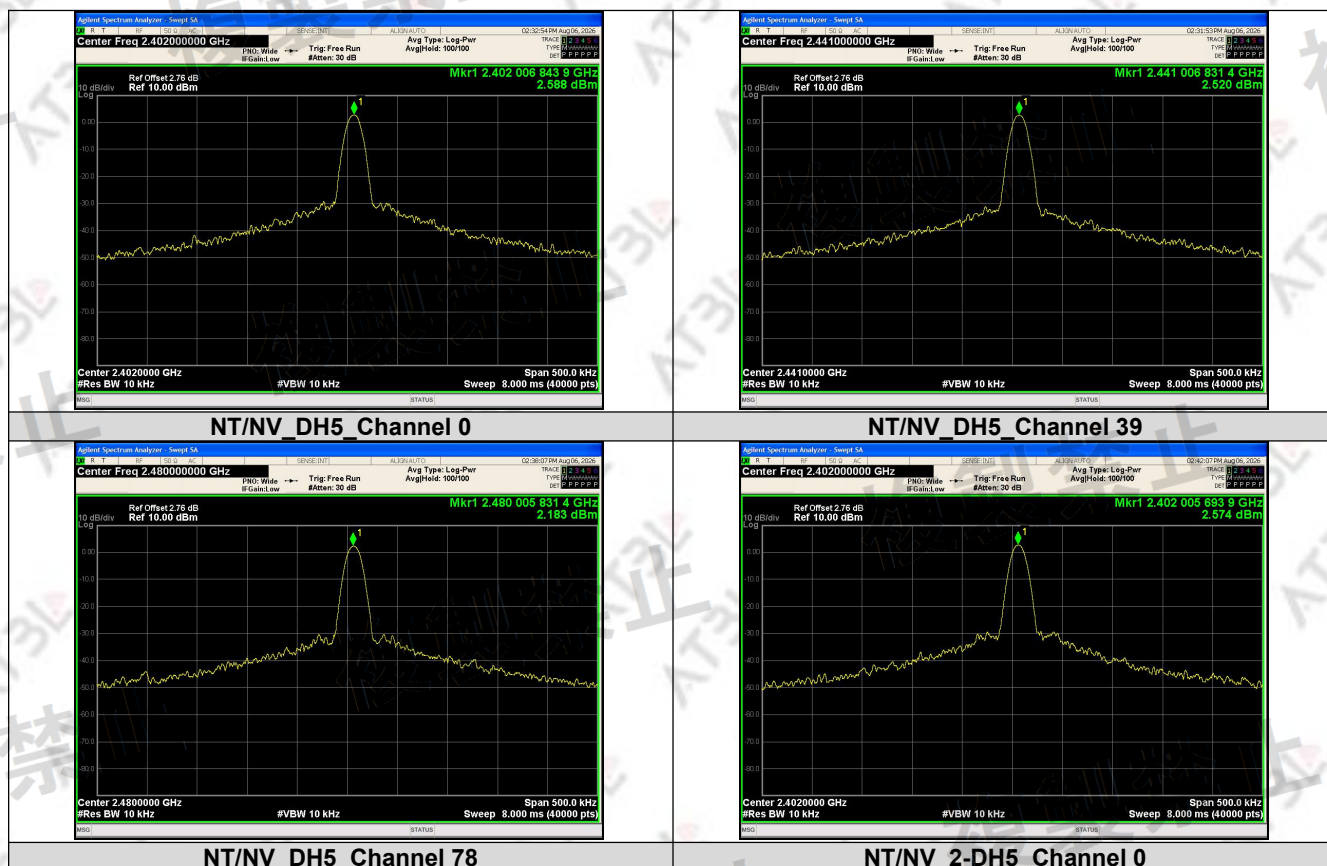
Appendix A for test data BR_EDR:

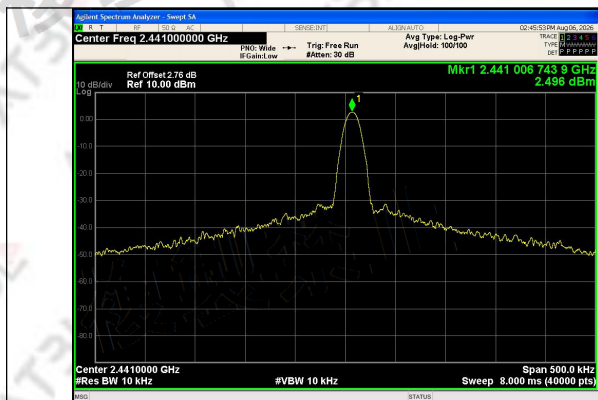
1.Frequency Tolerance

Test Result

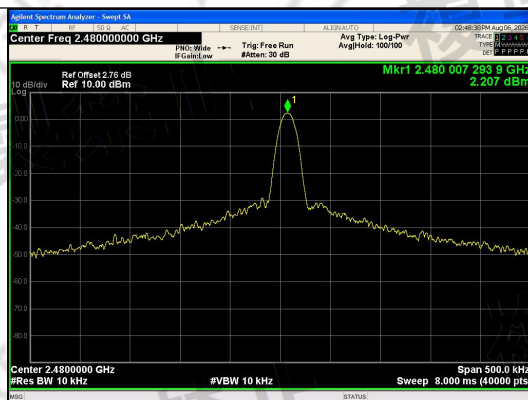
Condition	Mode	Ch.	Center Frequency (MHz)	Measured Value (MHz)	Result (ppm)	Limit (ppm)	Verdict
NT/NV	GFSK(CW)	0	2402	2402.0068439	2.85	± 50	PASS
NT/NV	GFSK(CW)	39	2441	2441.0068314	2.80	± 50	PASS
NT/NV	GFSK(CW)	78	2480	2480.0058314	2.35	± 50	PASS
NT/NV	π /4DQPSK(CW)	0	2402	2402.0056939	2.37	± 50	PASS
NT/NV	π /4DQPSK(CW)	39	2441	2441.0067439	2.76	± 50	PASS
NT/NV	π /4DQPSK(CW)	78	2480	2480.0072939	2.94	± 50	PASS
NT/NV	8DPSK(CW)	0	2402	2402.0064439	2.68	± 50	PASS
NT/NV	8DPSK(CW)	39	2441	2441.0072314	2.96	± 50	PASS
NT/NV	8DPSK(CW)	78	2480	2480.0074439	3.00	± 50	PASS

Test Graphs

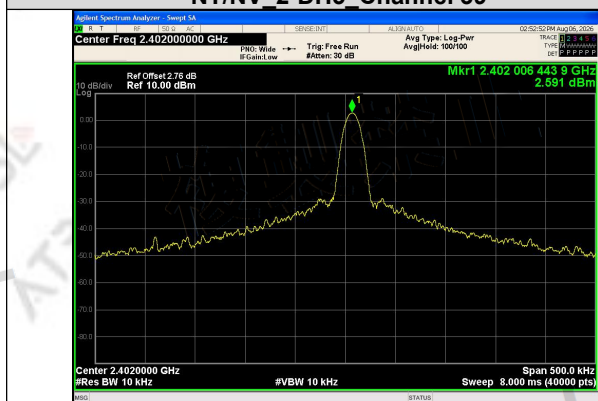




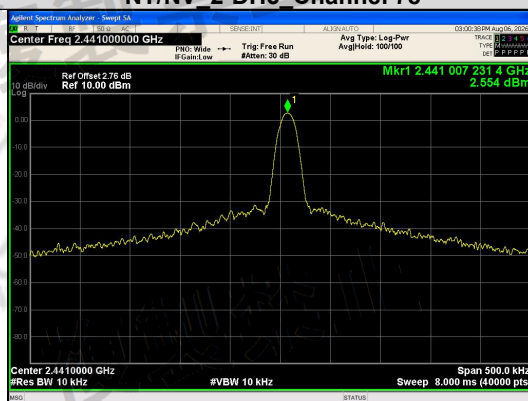
NT/NV_2-DH5_Channel 39



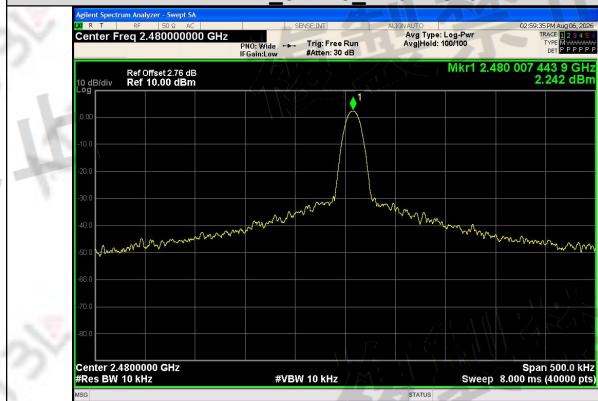
NT/NV_2-DH5_Channel 78



NT/NV_3-DH5_Channel 0



NT/NV_3-DH5_Channel 39



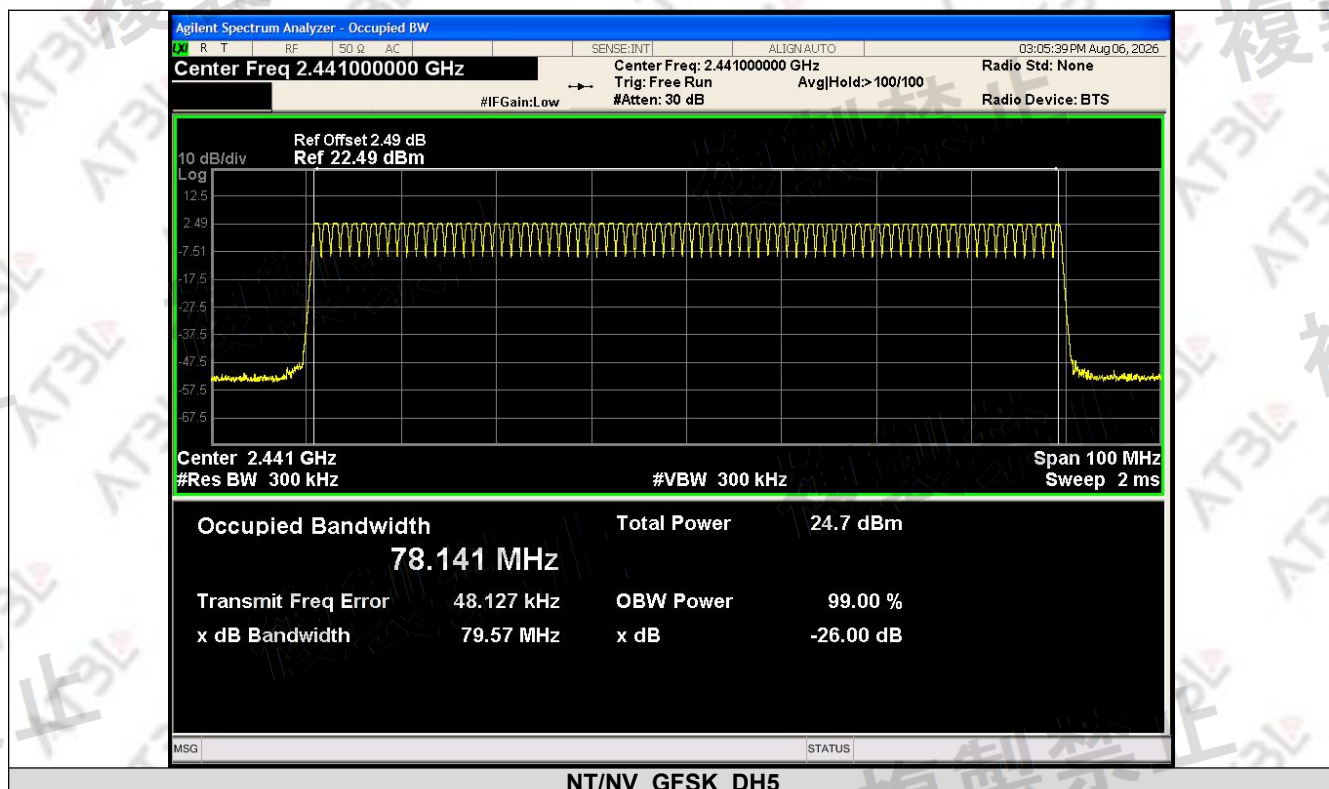
NT/NV_3-DH5_Channel 78

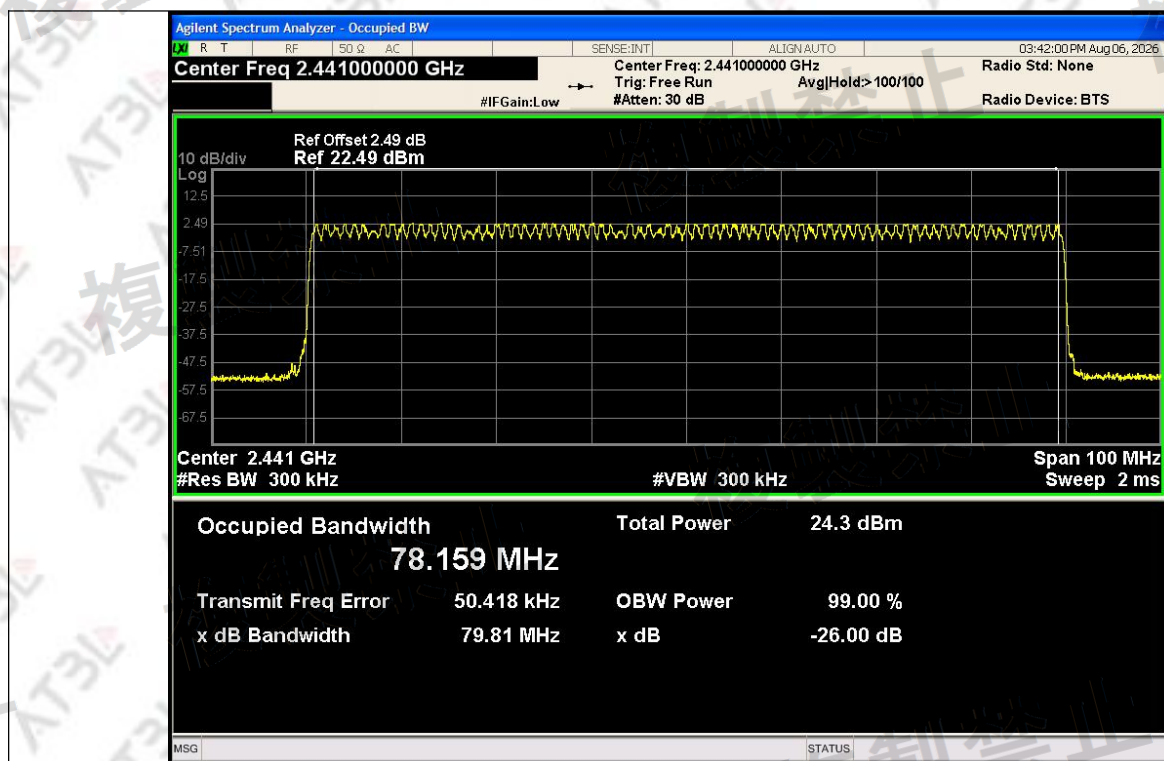
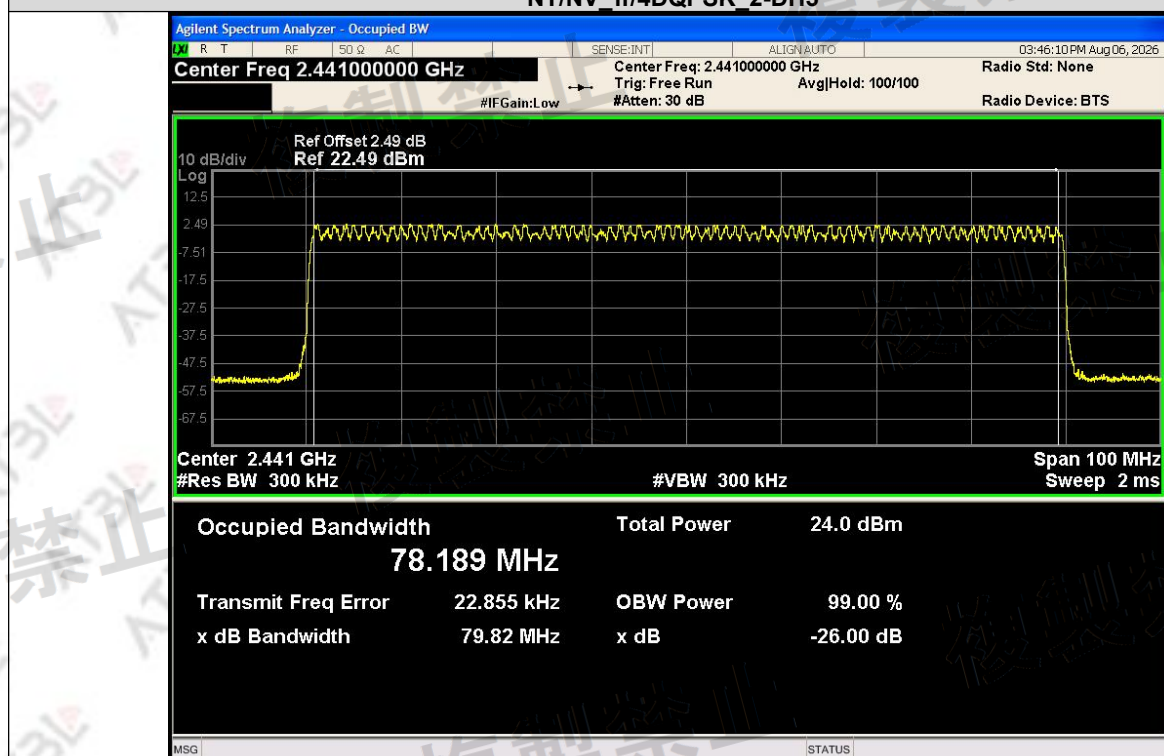
2.Occupied bandwidth

Test Result

Condition	Modulation	99% BW (MHz)	Limit (MHz)	Verdict
NT/NV	GFSK_DH5	78.14	≤83.5MHz	PASS
	π/4DQPSK_2-DH5	78.16		PASS
	8DPSK_3-DH5	78.19		PASS

Test Graphs




NT/NV $\pi/4$ DQPSK 2-DH5


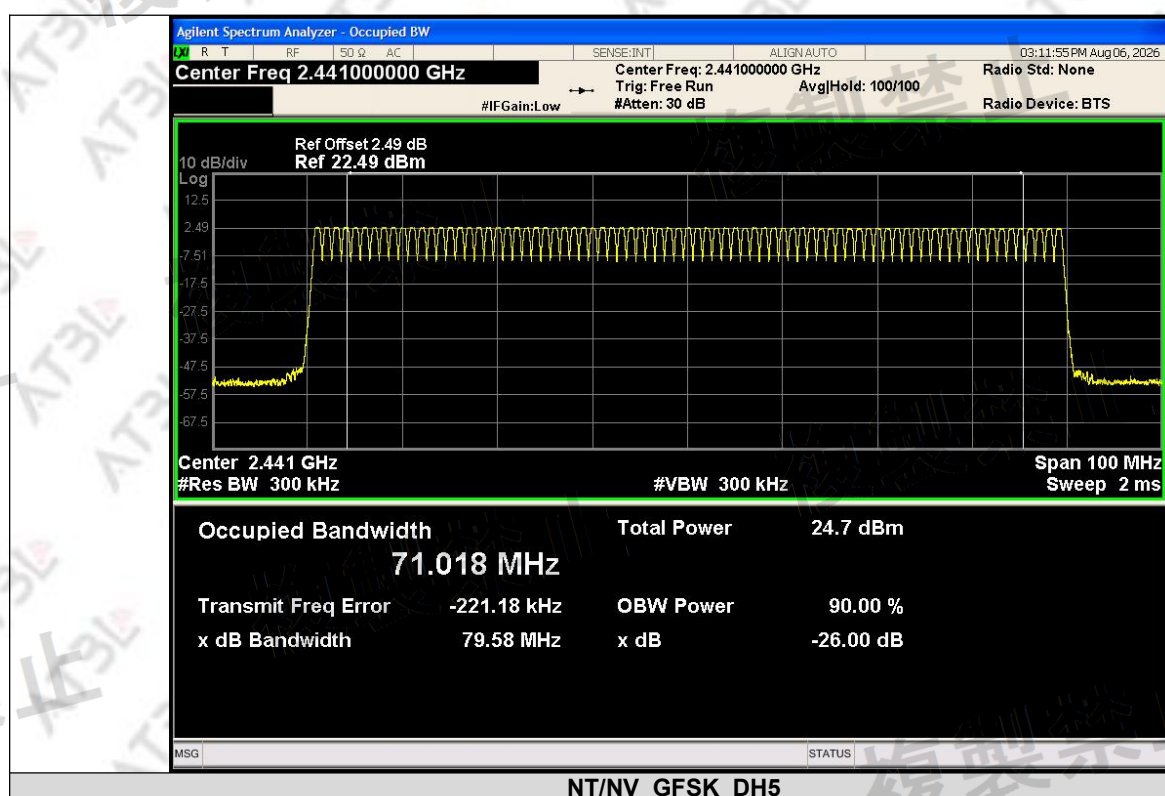
NT/NV 8DPSK 3-DH5

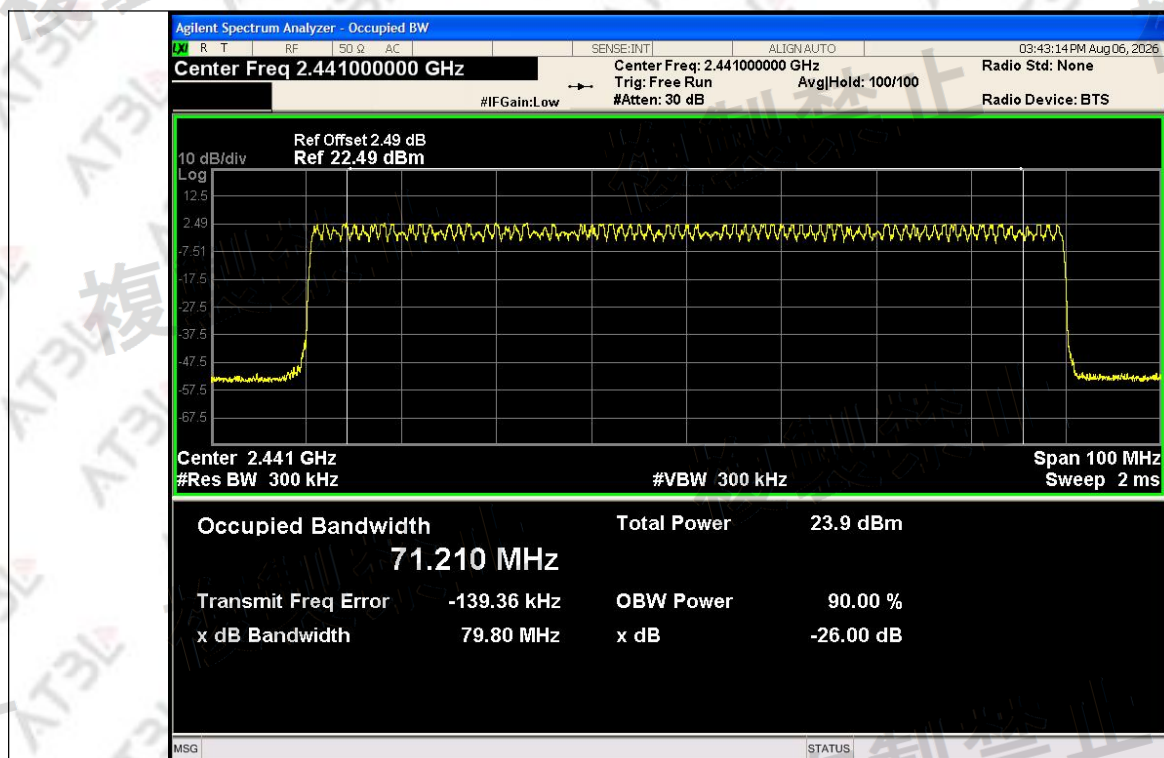
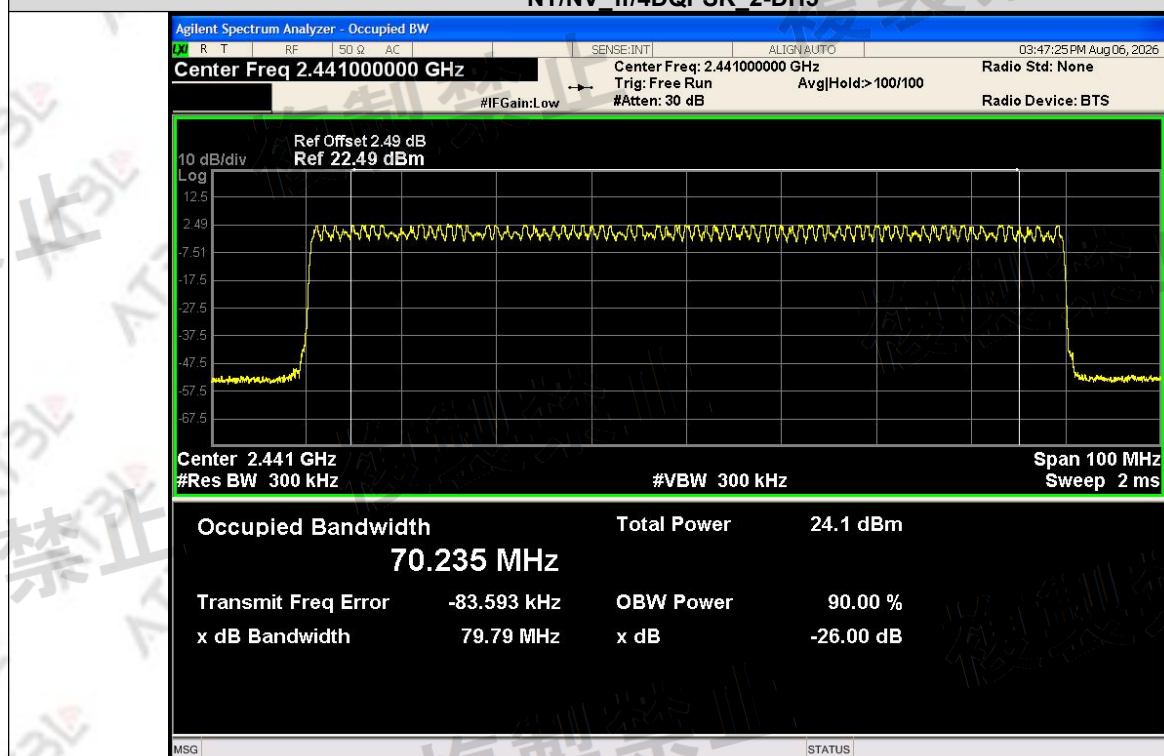
3.Spredding Bandwidth

Test Result

Condition	Mode	90% SBW (MHz)	Limit [MHz]	Verdict
NT/NV	GFSK_DH5	71.018	≥0.5	PASS
NT/NV	$\pi/4$ DQPSK_2-DH5	71.210	≥0.5	PASS
NT/NV	8DPSK_3-DH5	70.235	≥0.5	PASS

Test Graphs




NT/NV π /4DQPSK 2-DH5


NT/NV 8DPSK 3-DH5

4.Spurious emissions for Transmitter

Test Result

GFSK_DH5

Condition	Channel	Frequency Range	Peak (MHz)	Measured Value		Limit (uW/MHz)	Verdict
				dBm	uW		
NT/NV	0	30 to 2387	2381.696	-55.425	0.003	≤2.5	PASS
		2387 to 2400	2399.990	-38.240	0.15	≤25	PASS
		2483.5 to 2496.5	2485.552	-55.792	0.003	≤25	PASS
		2496.5 to 12500	4804.923	-30.612	0.869	≤2.5	PASS
	39	30 to 2387	2384.996	-56.761	0.002	≤2.5	PASS
		2387 to 2400	2389.144	-55.721	0.003	≤25	PASS
		2483.5 to 2496.5	2494.967	-55.464	0.003	≤25	PASS
		2496.5 to 12500	4882.954	-30.916	0.81	≤2.5	PASS
	78	30 to 2387	2233.552	-55.255	0.003	≤2.5	PASS
		2387 to 2400	2395.422	-56.620	0.002	≤25	PASS
		2483.5 to 2496.5	2483.807	-51.521	0.007	≤25	PASS
		2496.5 to 12500	4960.485	-32.046	0.624	≤2.5	PASS

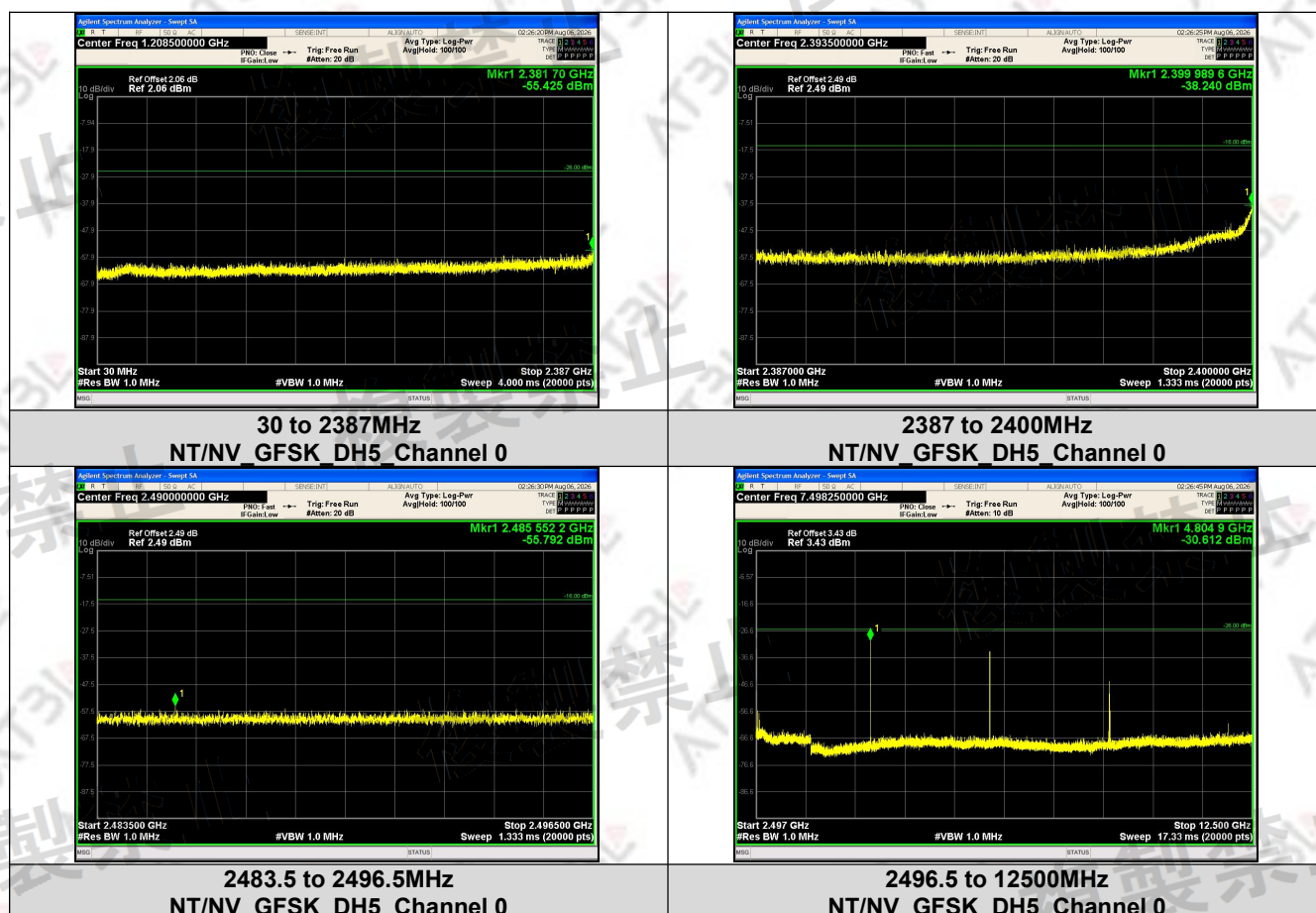
π/4DQPSK_2-DH5

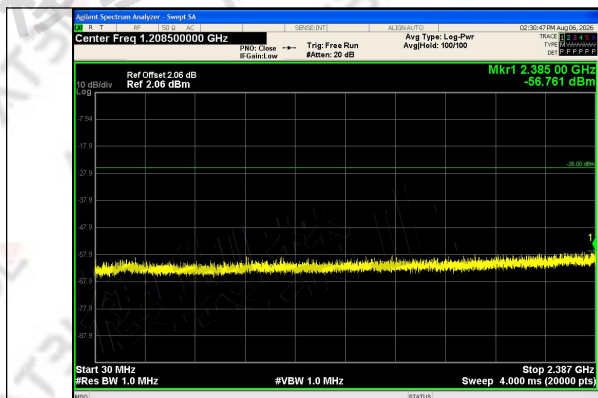
Condition	Channel	Frequency Range	Peak (MHz)	Measured Value		Limit (uW/MHz)	Verdict
				dBm	uW		
NT/NV	0	30 to 2387	2370.854	-55.798	0.003	≤2.5	PASS
		2387 to 2400	2400.000	-33.485	0.448	≤25	PASS
		2483.5 to 2496.5	2494.321	-56.392	0.002	≤25	PASS
		2496.5 to 12500	4804.423	-31.757	0.667	≤2.5	PASS
	39	30 to 2387	2180.634	-56.423	0.002	≤2.5	PASS
		2387 to 2400	2399.021	-55.783	0.003	≤25	PASS
		2483.5 to 2496.5	2495.060	-55.677	0.003	≤25	PASS
		2496.5 to 12500	4882.954	-32.641	0.544	≤2.5	PASS
	78	30 to 2387	2359.893	-56.780	0.002	≤2.5	PASS
		2387 to 2400	2390.102	-56.306	0.002	≤25	PASS
		2483.5 to 2496.5	2483.523	-52.343	0.006	≤25	PASS
		2496.5 to 12500	4960.485	-33.021	0.499	≤2.5	PASS

8DPSK_3-DH5

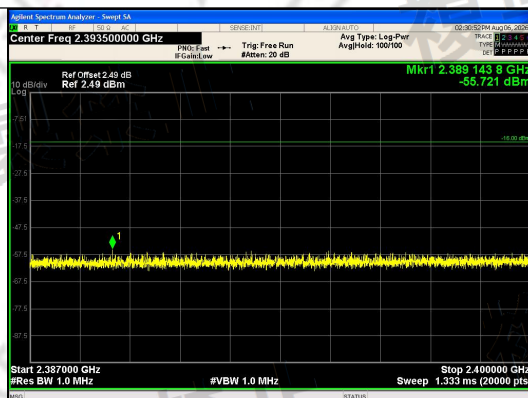
Condition	Channel	Frequency Range	Peak (MHz)	Measured Value		Limit (uW/MHz)	Verdict
				dBm	uW		
NT/NV	0	30 to 2387	2380.164	-55.424	0.003	≤2.5	PASS
		2387 to 2400	2399.992	-33.488	0.448	≤25	PASS
		2483.5 to 2496.5	2495.850	-56.500	0.002	≤25	PASS
		2496.5 to 12500	4804.423	-33.401	0.457	≤2.5	PASS
	39	30 to 2387	2377.454	-56.506	0.002	≤2.5	PASS
		2387 to 2400	2394.598	-56.492	0.002	≤25	PASS
		2483.5 to 2496.5	2488.679	-55.623	0.003	≤25	PASS
		2496.5 to 12500	4882.454	-31.527	0.704	≤2.5	PASS
	78	30 to 2387	2293.069	-56.290	0.002	≤2.5	PASS
		2387 to 2400	2395.164	-56.022	0.002	≤25	PASS
		2483.5 to 2496.5	2483.539	-51.651	0.007	≤25	PASS
		2496.5 to 12500	4960.985	-34.389	0.364	≤2.5	PASS

Test Graphs

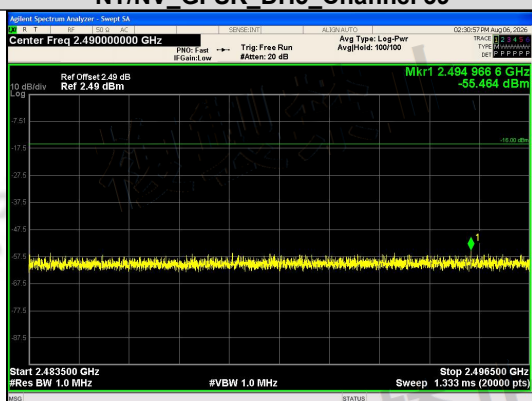




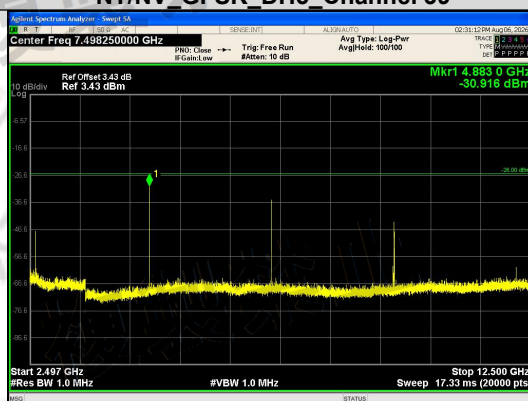
30 to 2387MHz
NT/NV_GFSK_DH5_Channel 39



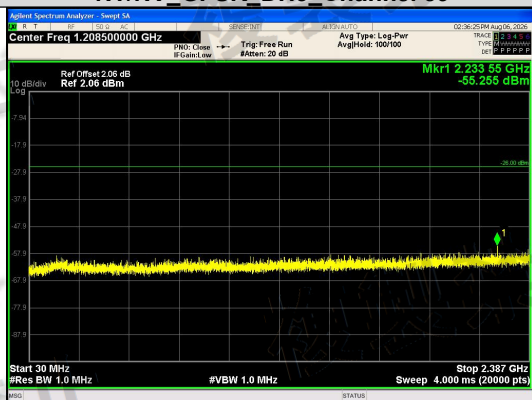
2387 to 2400MHz
NT/NV_GFSK_DH5_Channel 39



2483.5 to 2496.5MHz
NT/NV_GFSK_DH5_Channel 39



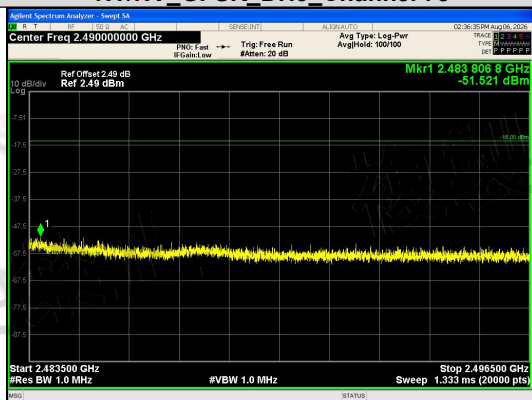
2496.5 to 12500MHz
NT/NV_GFSK_DH5_Channel 39



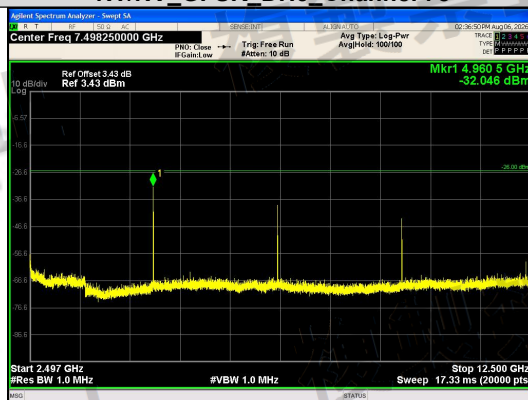
30 to 2387MHz
NT/NV_GFSK_DH5_Channel 78



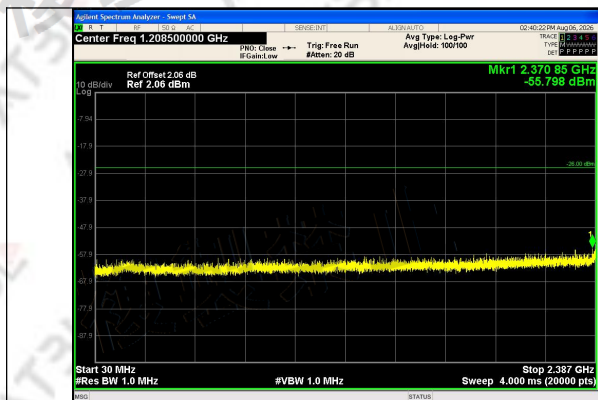
2387 to 2400MHz
NT/NV_GFSK_DH5_Channel 78



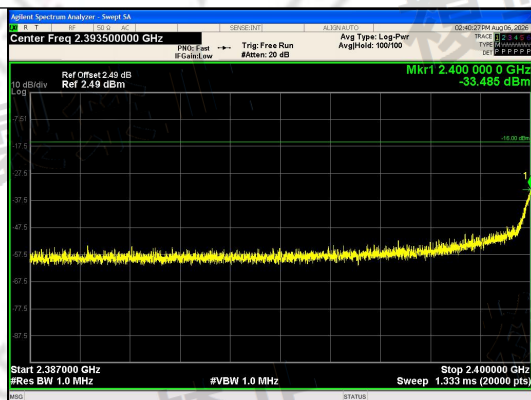
2483.5 to 2496.5MHz
NT/NV_GFSK_DH5_Channel 78



2496.5 to 12500MHz
NT/NV_GFSK_DH5_Channel 78



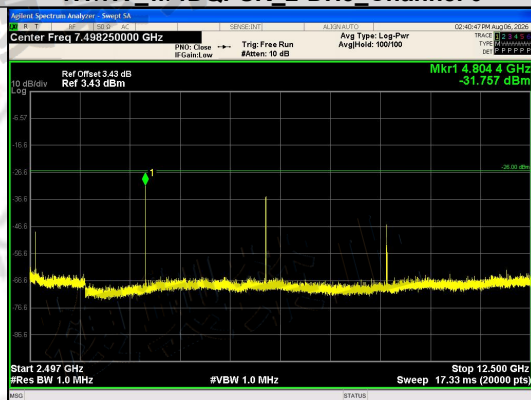
30 to 2387MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 0



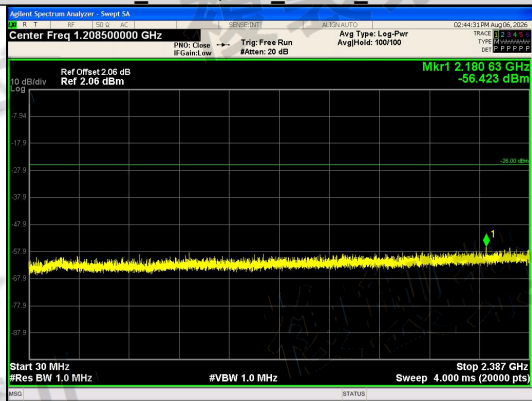
2387 to 2400MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 0



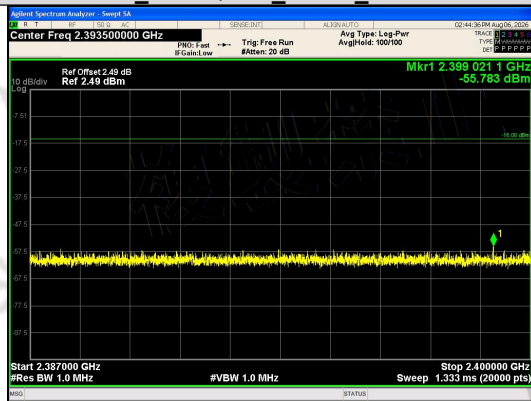
2483.5 to 2496.5MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 0



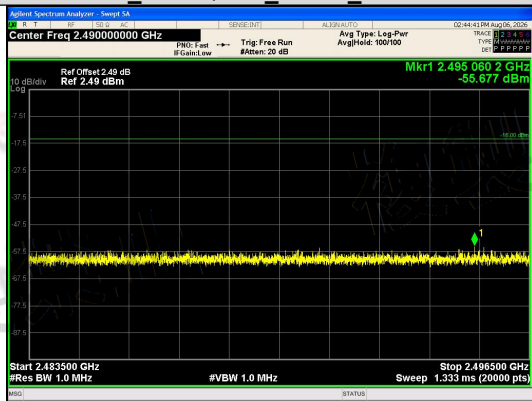
2496.5 to 12500MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 0



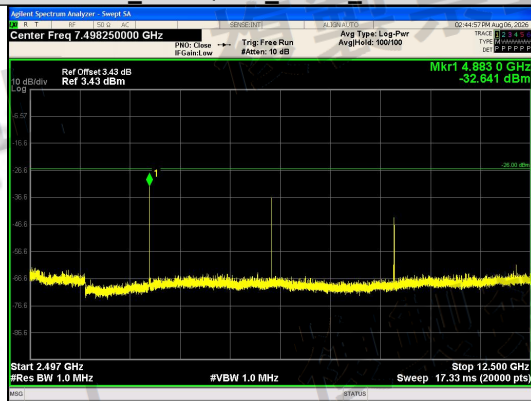
30 to 2387MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 39



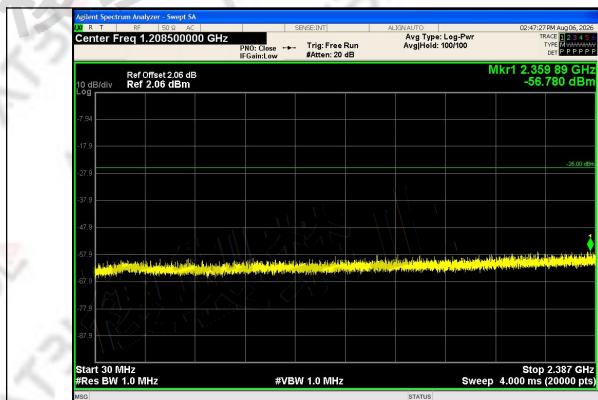
2387 to 2400MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 39



2483.5 to 2496.5MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 39



2496.5 to 12500MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 39



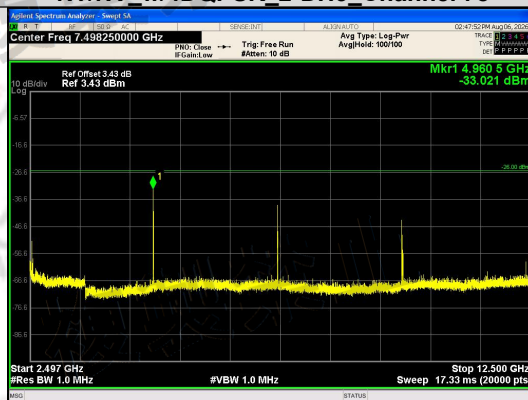
30 to 2387MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 78



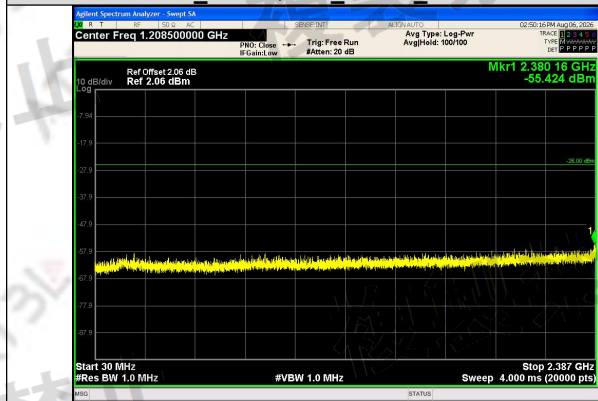
2387 to 2400MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 78



2483.5 to 2496.5MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 78



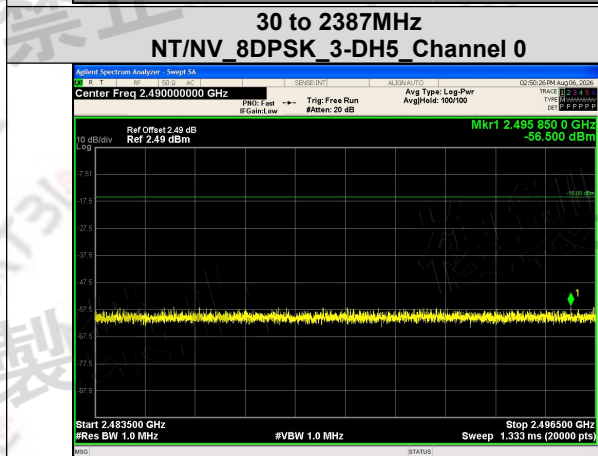
2496.5 to 12500MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 78



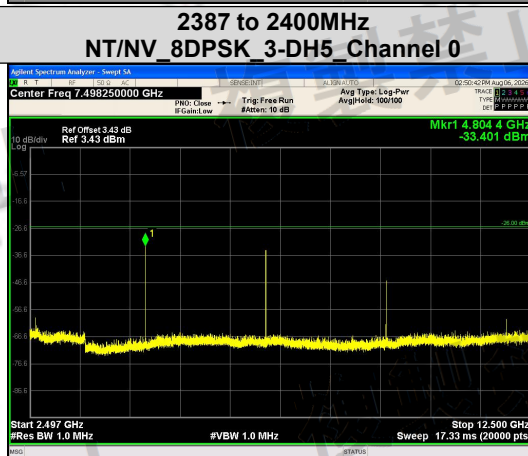
30 to 2387MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 78



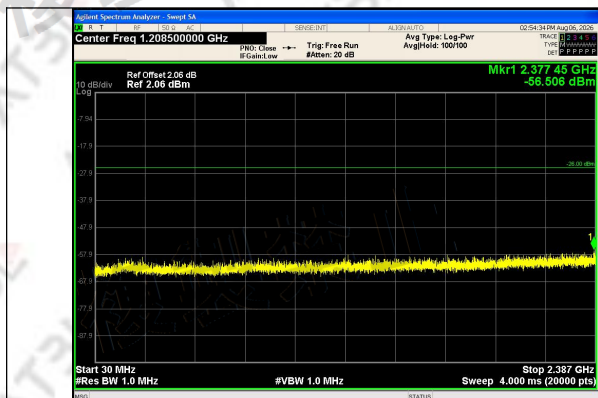
2496.5 to 12500MHz
NT/NV $\pi/4$ DQPSK 2-DH5 Channel 78



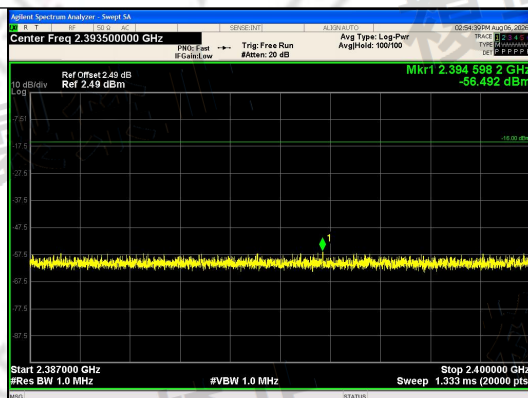
30 to 2387MHz
NT/NV 8DPSK 3-DH5 Channel 0



2387 to 2400MHz
NT/NV 8DPSK 3-DH5 Channel 0



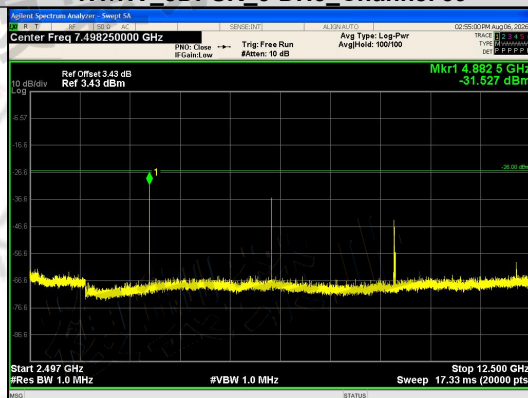
30 to 2387MHz
NT/NV_8DPSK_3-DH5_Channel 39



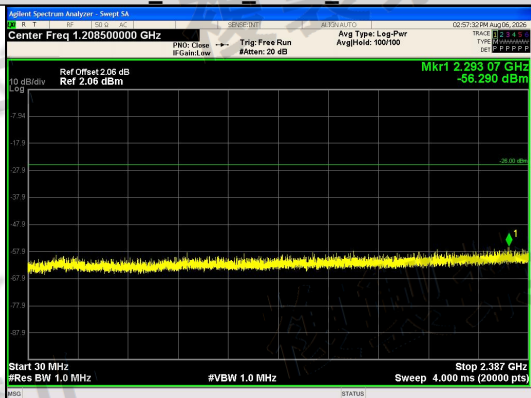
2387 to 2400MHz
NT/NV_8DPSK_3-DH5_Channel 39



2483.5 to 2496.5MHz
NT/NV_8DPSK_3-DH5_Channel 39



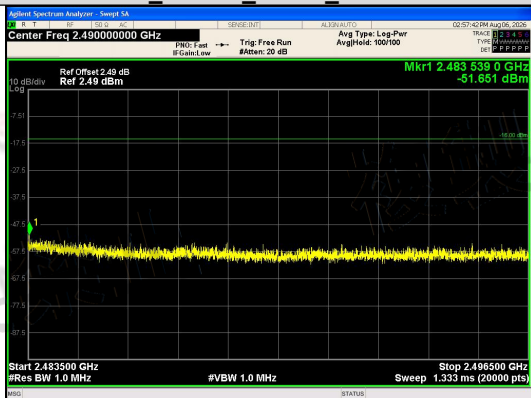
2496.5 to 12500MHz
NT/NV_8DPSK_3-DH5_Channel 39



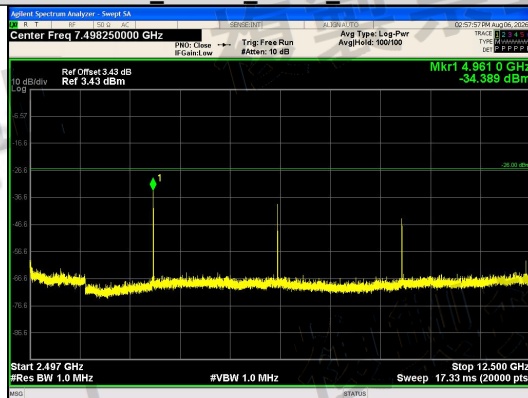
30 to 2387MHz
NT/NV_8DPSK_3-DH5_Channel 78



2387 to 2400MHz
NT/NV_8DPSK_3-DH5_Channel 78



2483.5 to 2496.5MHz
NT/NV_8DPSK_3-DH5_Channel 78



2496.5 to 12500MHz
NT/NV_8DPSK_3-DH5_Channel 78

5. Antenna Power

Test Result

Left ear

Condition	Modulation	Frequency (MHz)	Antenna power (dBm/MHz)	Antenna power density (mW/MHz)	Limit (mW/MHz)	Verdict
NT/NV	GFSK_DH5	2402	2.11	1.63	3	PASS
		2441	1.99	1.58	3	PASS
		2480	1.73	1.49	3	PASS
	π /4DQPSK_2-DH5	2402	-1.05	0.79	3	PASS
		2441	-1.14	0.77	3	PASS
		2480	-1.44	0.72	3	PASS
	8DPSK_3-DH5	2402	-0.94	0.80	3	PASS
		2441	-1.02	0.79	3	PASS
		2480	-1.50	0.71	3	PASS

Condition	Modulation	Frequency (MHz)	Tolerance (%)	Tolerance Limit (%)	Rated power (mW/MHz)	Verdict
NT/NV	GFSK_DH5	2402	8.67%	+20	1.5	PASS
		2441	5.33%	+20		PASS
		2480	-0.67%	+20		PASS
	π /4DQPSK_2-DH5	2402	-47.33%	+20		PASS
		2441	-48.67%	+20		PASS
		2480	-52.00%	+20		PASS
	8DPSK_3-DH5	2402	-46.67%	+20		PASS
		2441	-47.33%	+20		PASS
		2480	-52.67%	+20		PASS

Condition	Mode	Frequency (MHz)	EIRP(dBm/MHz)	Gain(dBi)	Limit (dBm/MHz)	Verdict
NT/NV	GFSK_DH5	2402	3.97	1.86	12.14	PASS
	GFSK_DH5	2441	3.85	1.86	12.14	PASS
	GFSK_DH5	2480	3.59	1.86	12.14	PASS
	π /4DQPSK_2-DH5	2402	0.81	1.86	12.14	PASS
	π /4DQPSK_2-DH5	2441	0.72	1.86	12.14	PASS
	π /4DQPSK_2-DH5	2480	0.42	1.86	12.14	PASS
	8DPSK_3-DH5	2402	0.92	1.86	12.14	PASS
	8DPSK_3-DH5	2441	0.84	1.86	12.14	PASS
	8DPSK_3-DH5	2480	0.36	1.86	12.14	PASS

Right ear

Condition	Modulation	Frequency (MHz)	Antenna power (dBm/MHz)	Antenna power density (mW/MHz)	Limit (mW/MHz)	Verdict
NT/NV	GFSK_DH5	2402	0.94	1.41	3	PASS
		2441	0.51	1.27	3	PASS
		2480	0.73	1.34	3	PASS
	π/4DQPSK_2-DH5	2402	-1.72	0.76	3	PASS
		2441	-1.71	0.76	3	PASS
		2480	-2.03	0.71	3	PASS
	8DPSK_3-DH5	2402	-1.55	0.79	3	PASS
		2441	-1.69	0.77	3	PASS
		2480	-2.22	0.68	3	PASS

Condition	Modulation	Frequency (MHz)	Tolerance (%)	Tolerance Limit (%)	Rated power (mW/MHz)	Verdict
NT/NV	GFSK_DH5	2402	-6.00%	+20	1.5	PASS
		2441	-15.33%	+20		PASS
		2480	-10.67%	+20		PASS
	π/4DQPSK_2-DH5	2402	-49.33%	+20		PASS
		2441	-49.33%	+20		PASS
		2480	-52.67%	+20		PASS
	8DPSK_3-DH5	2402	-47.33%	+20		PASS
		2441	-48.67%	+20		PASS
		2480	-54.67%	+20		PASS

Condition	Mode	Frequency (MHz)	EIRP(dBm/MHz)	Gain(dBi)	Limit (dBm/MHz)	Verdict
NT/NV	GFSK_DH5	2402	2.8	1.86	12.14	PASS
	GFSK_DH5	2441	2.37	1.86	12.14	PASS
	GFSK_DH5	2480	2.59	1.86	12.14	PASS
	π/4DQPSK_2-DH5	2402	0.14	1.86	12.14	PASS
	π/4DQPSK_2-DH5	2441	0.15	1.86	12.14	PASS
	π/4DQPSK_2-DH5	2480	-0.17	1.86	12.14	PASS
	8DPSK_3-DH5	2402	0.31	1.86	12.14	PASS
	8DPSK_3-DH5	2441	0.17	1.86	12.14	PASS
	8DPSK_3-DH5	2480	-0.36	1.86	12.14	PASS

Note:

Perform tests on both the left and right ears for antenna power-related items.

Based on power levels, for all other test items, only the (left ears) operating at maximum power shall be selected for testing.

6.Spurious emissions for receiver

Test Result

Normal mode_GFSK_DH5

Condition	Channel	Frequency Range (MHz)	Peak (MHz)	Measured Value (dBm)	Limit		Verdict
					dBm	nW	
NT/NV	0	30 to 1000	220.110	-89.007	-54	≤4	PASS
		1000 to 12500	3179.323	-73.604	-47	≤20	PASS
	39	30 to 1000	917.246	-88.550	-54	≤4	PASS
		1000 to 12500	12430.998	-73.392	-47	≤20	PASS
	78	30 to 1000	315.115	-88.567	-54	≤4	PASS
		1000 to 12500	3536.601	-73.581	-47	≤20	PASS

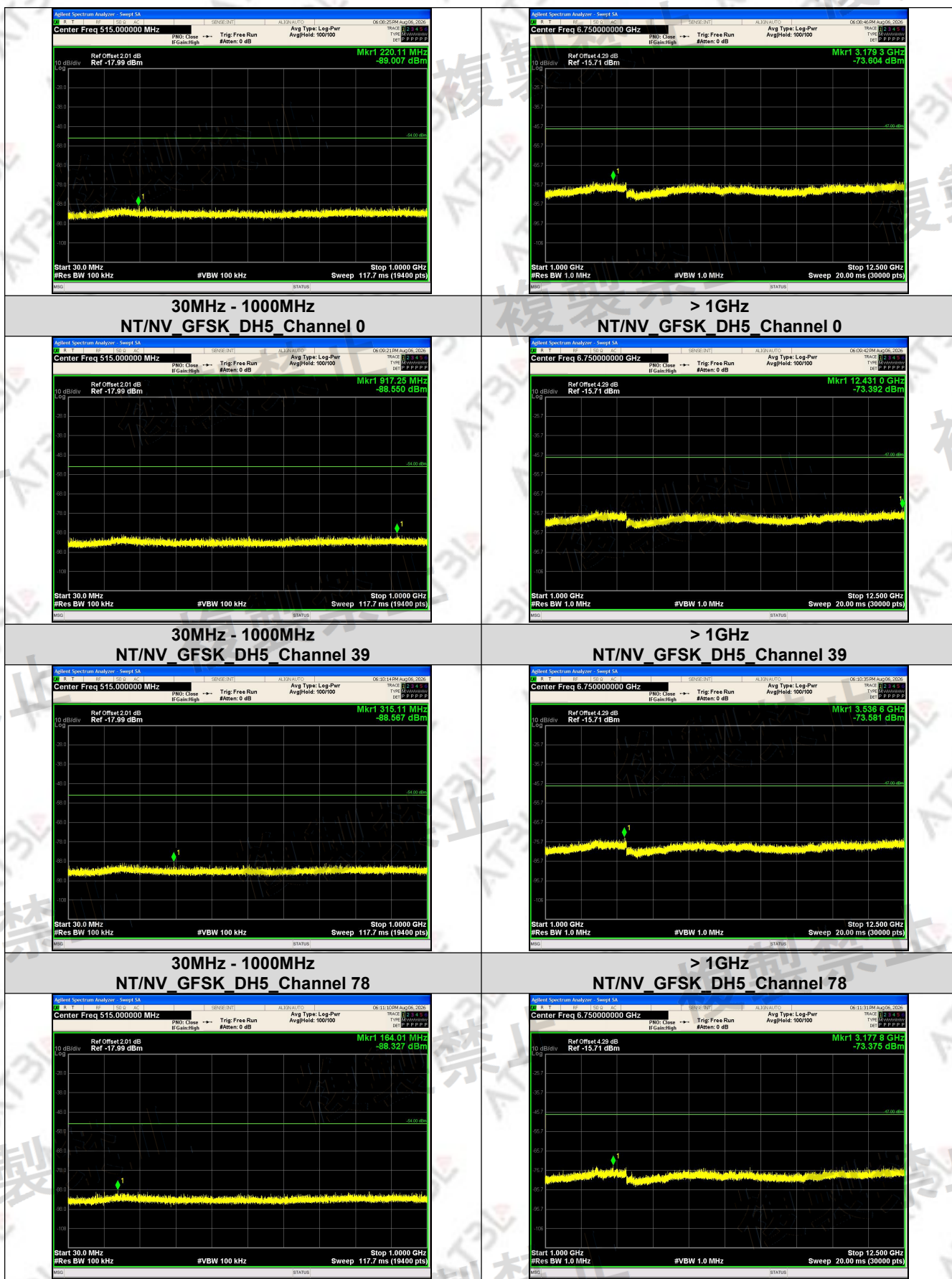
Normal mode_π/4DQPSK_2-DH5

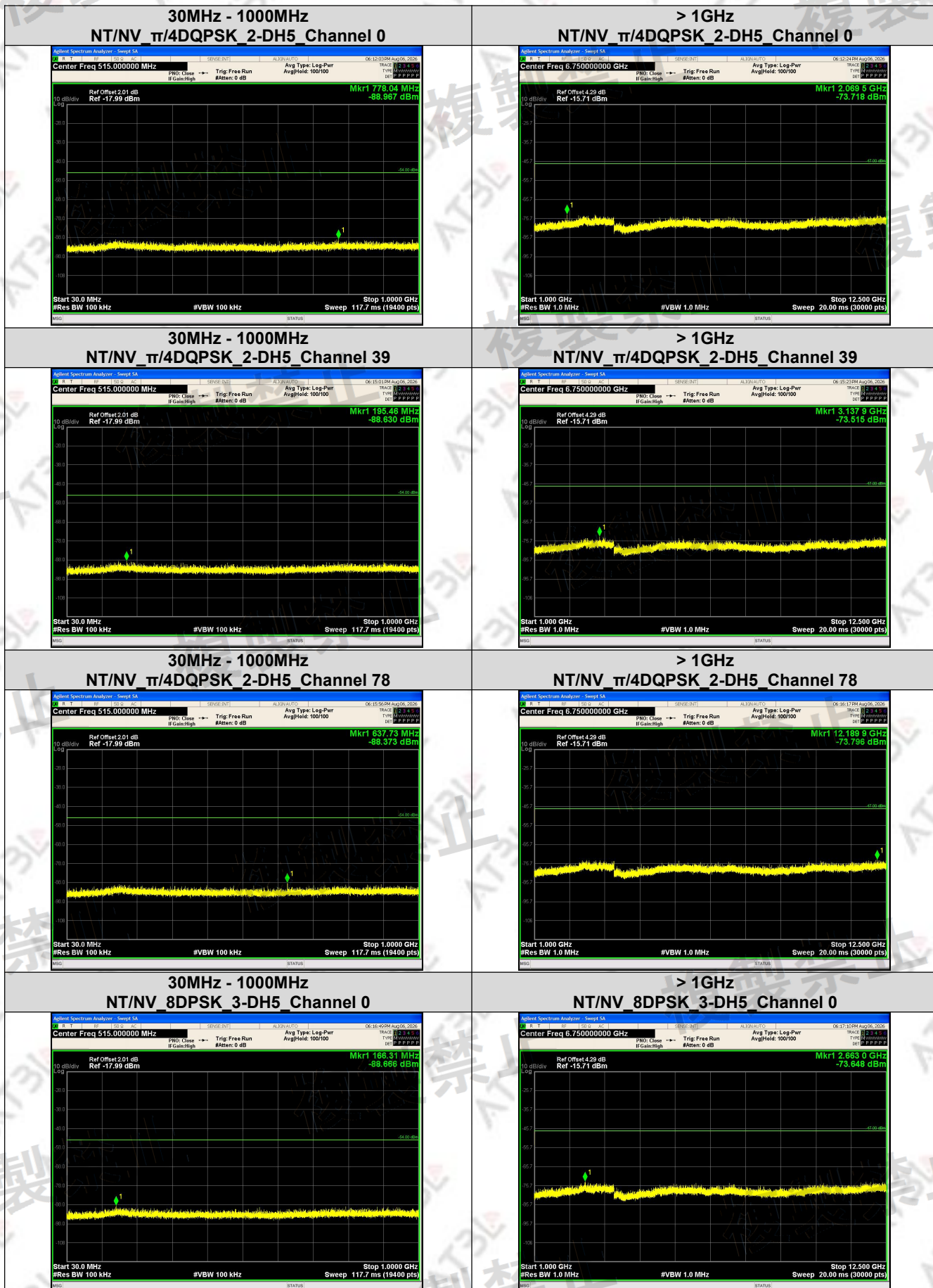
Condition	Channel	Frequency Range (MHz)	Peak (MHz)	Measured Value (dBm)	Limit		Verdict
					dBm	nW	
NT/NV	0	30 to 1000	164.007	-88.326	-54	≤4	PASS
		1000 to 12500	3177.789	-73.376	-47	≤20	PASS
	39	30 to 1000	778.039	-88.967	-54	≤4	PASS
		1000 to 12500	2069.536	-73.718	-47	≤20	PASS
	78	30 to 1000	195.459	-88.630	-54	≤4	PASS
		1000 to 12500	3137.921	-73.515	-47	≤20	PASS

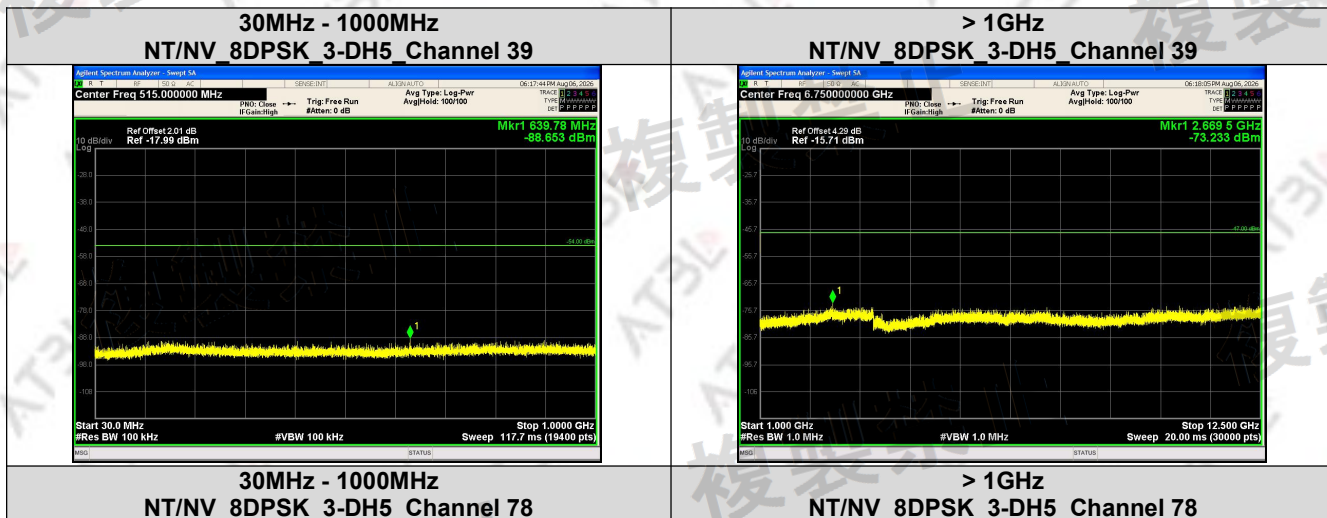
Normal mode_8DPSK_3-DH5

Condition	Channel	Frequency Range (MHz)	Peak (MHz)	Measured Value (dBm)	Limit		Verdict
					dBm	nW	
NT/NV	0	30 to 1000	637.731	-88.374	-54	≤4	PASS
		1000 to 12500	12189.873	-73.796	-47	≤20	PASS
	39	30 to 1000	166.307	-88.666	-54	≤4	PASS
		1000 to 12500	2662.955	-73.648	-47	≤20	PASS
	78	30 to 1000	639.781	-88.653	-54	≤4	PASS
		1000 to 12500	2669.472	-73.234	-47	≤20	PASS

Test Graphs







7.Dwell time of frequency hopping

Test Result

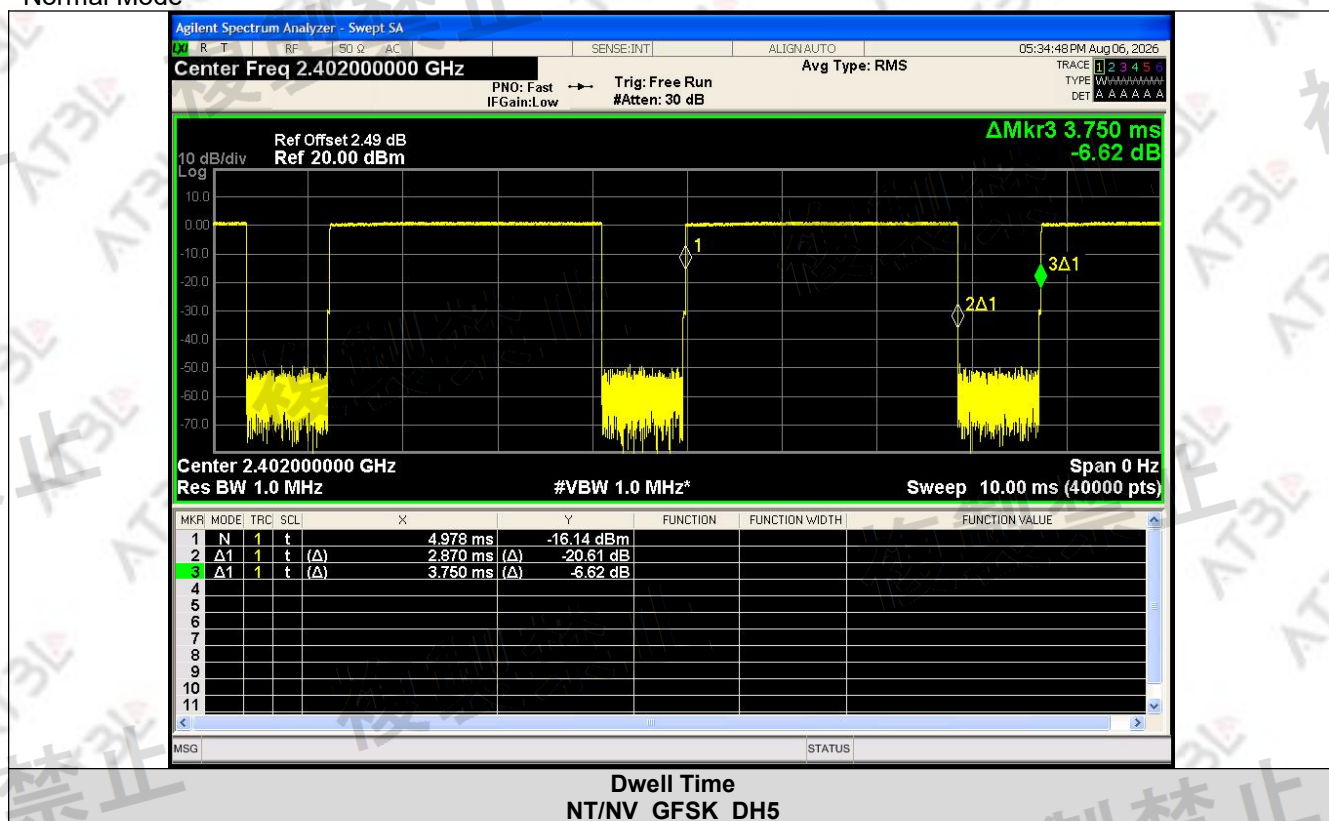
Condition	Modulation	Packet	Spreading Rate	(Spreading Rate / 79) * 0.4	Burst Ratio	Dwell Time (ms)	Limit (ms)	Verdict
NT/NV	GFSK	DH5	79	0.4	0.765	306	400	PASS
	$\pi/4$ DQPSK	2-DH5	71.2103	0.3606	0.768	276	400	PASS
	8DPSK	3-DH5	70.2352	0.3556	0.768	273	400	PASS

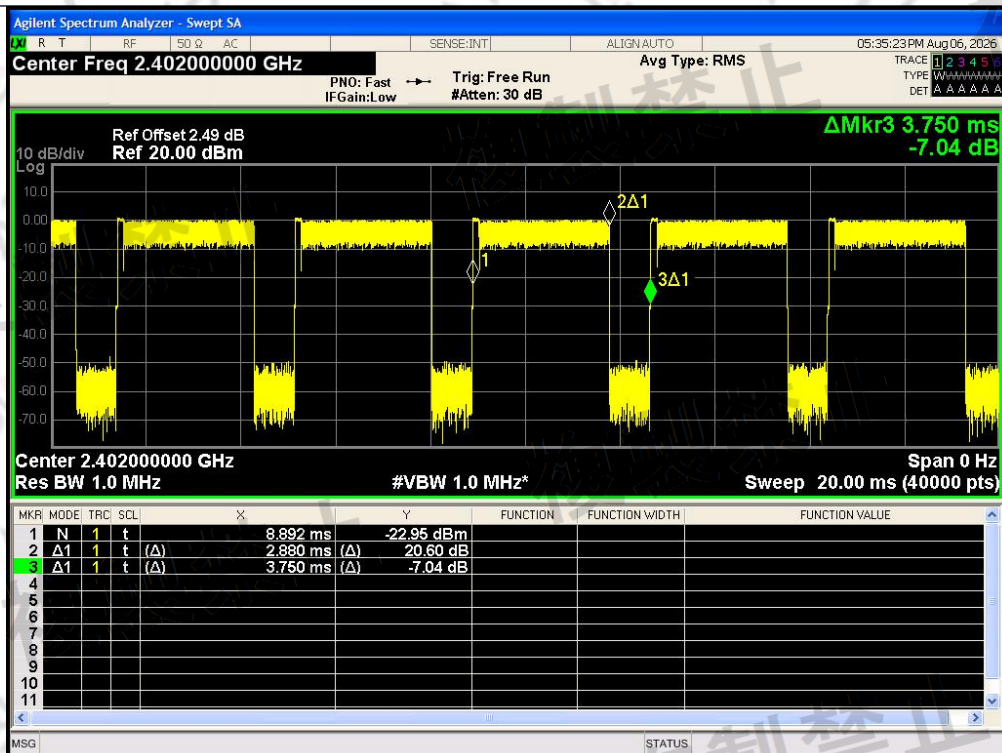
Note:

- 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.

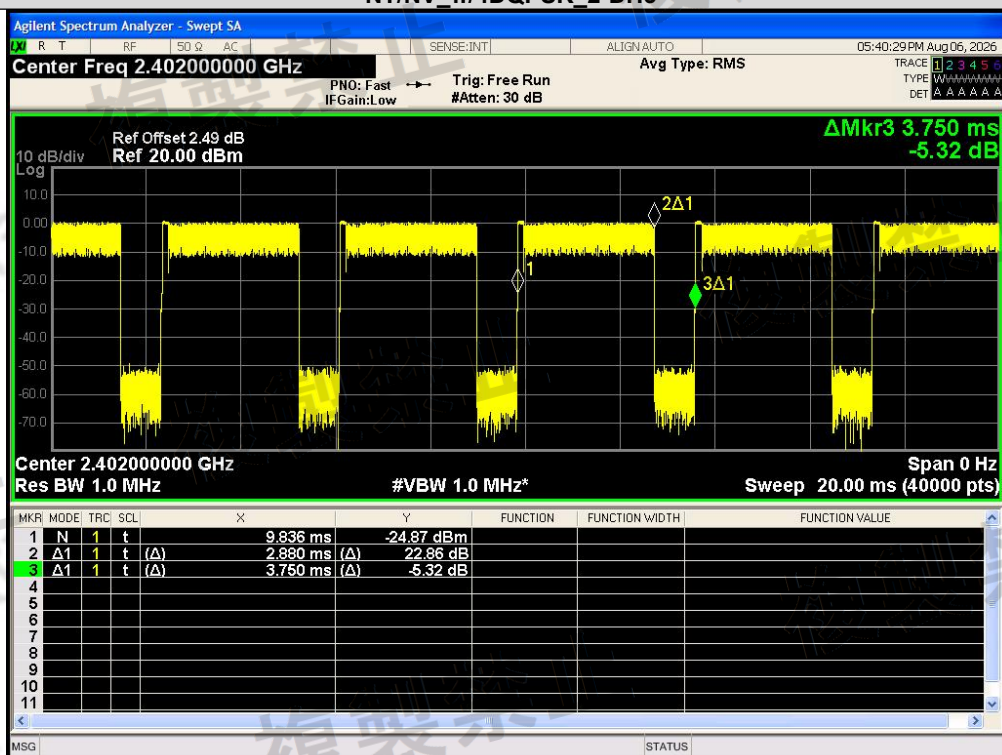
Test Graphs

Normal Mode





Dwell Time
NT/NV $\pi/4$ DQPSK_2-DH5



Dwell Time
NT/NV_8DPSK_3-DH5

-----END OF THE REPORT-----