



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

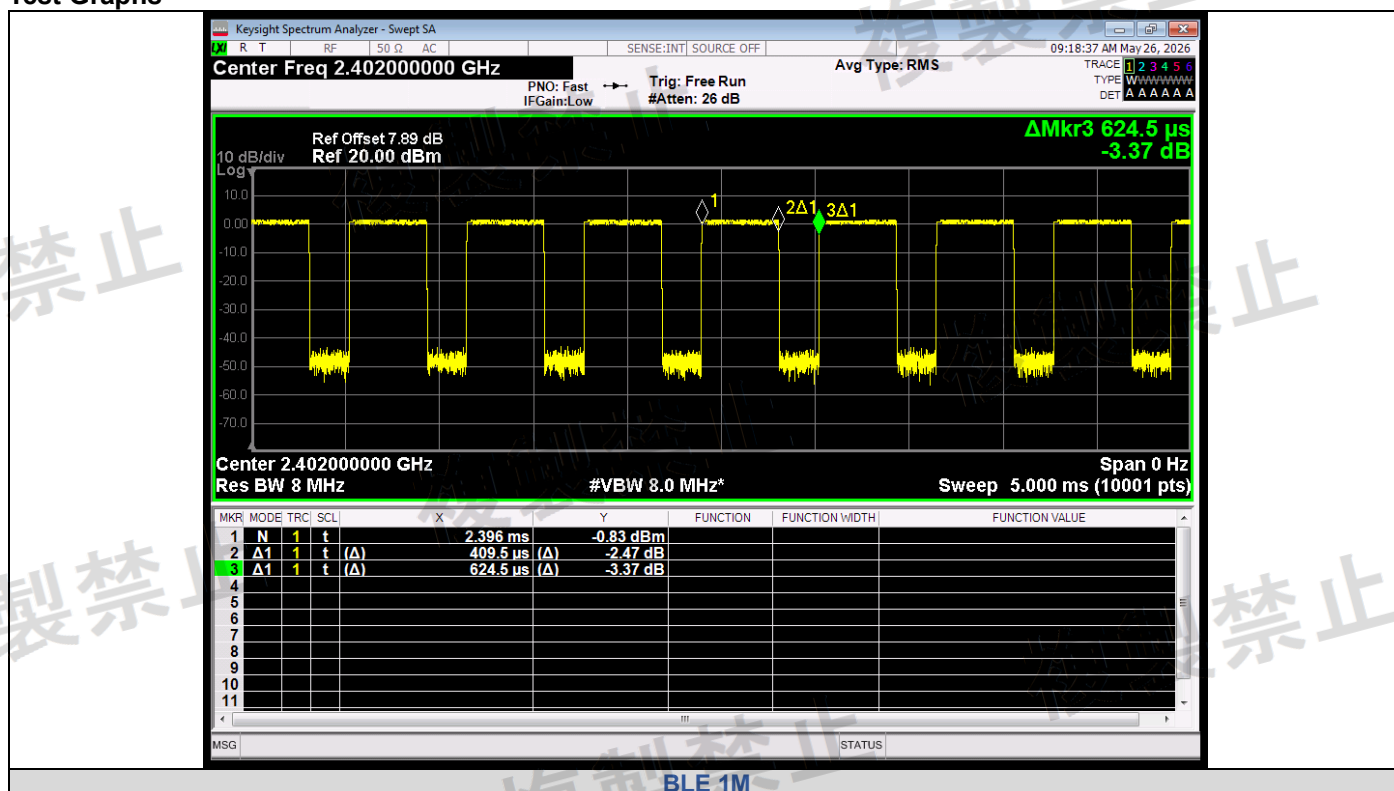
E.U.T:	Wireless Headphones
Model Number:	HQ60
Trade Name:	N/A
Sample Number:	33000270429
Date of Receipt:	May 12, 2026
Date of Test:	May 13 ~ Jun. 03, 2026

A.1 DUTY CYCLE

Test Result

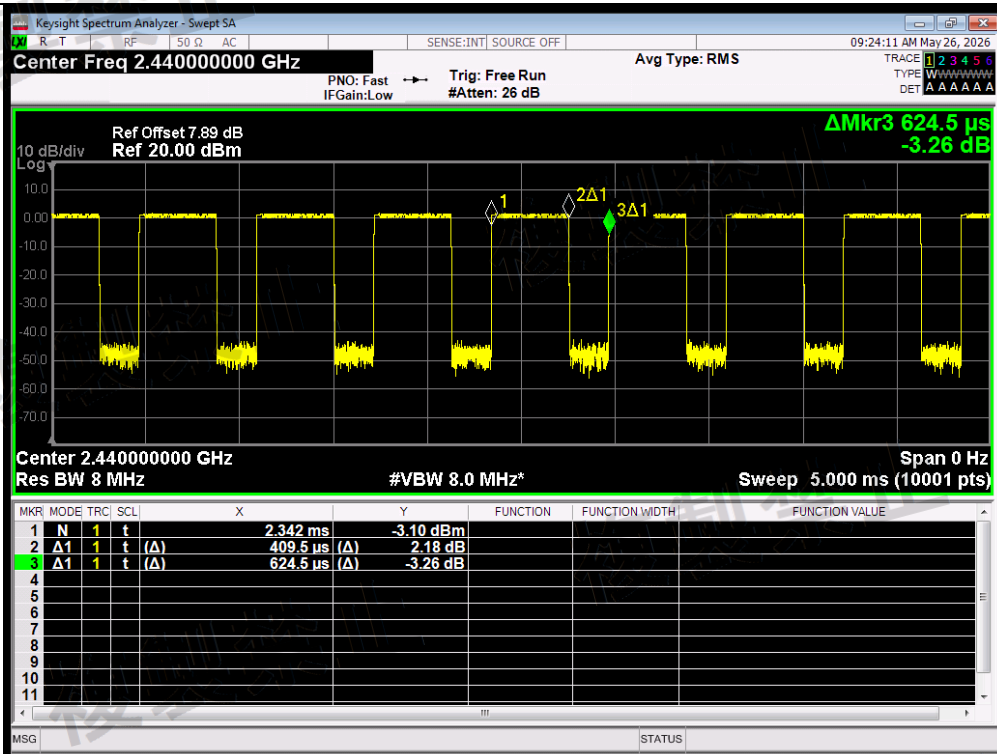
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
BLE 1M	0	0.409	0.625	65.57	0.6557	1.8329
	19	0.409	0.625	65.57	0.6557	1.8329
	39	0.409	0.624	65.57	0.6557	1.8329

Test Graphs

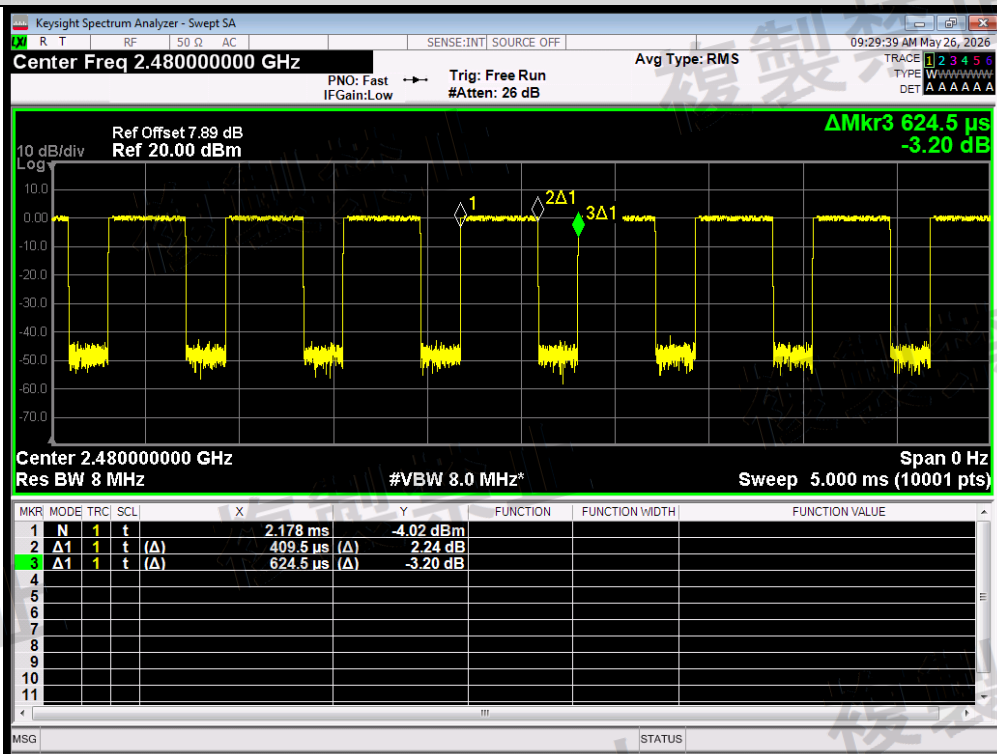




Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park,
No.30, Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong,
China



BLE 1M



BLE 1M



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

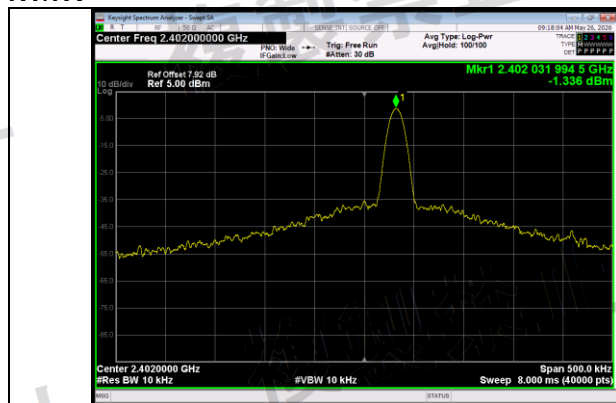
A.2 FREQUENCY TOLERANCE

Test Result

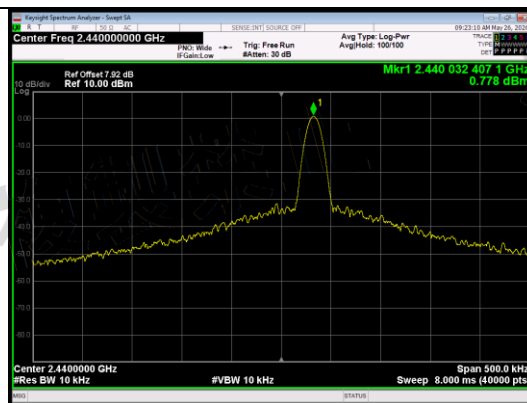
Condition	Mode	Ch.	Center Frequency (MHz)	Measured Value (MHz)	Deviation (ppm)	Limit (ppm)	Result
NT/NV	BLE 1M(CW)	0	2402	2402.0319946	13.32	± 50	PASS
		19	2440	2440.0324071	13.28		PASS
		39	2480	2480.0328696	13.25		PASS

Test Graphs

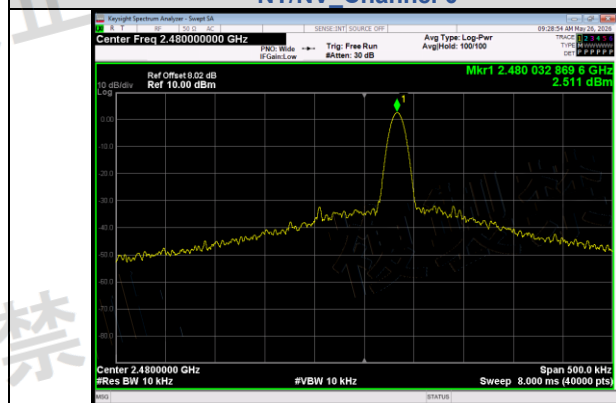
NT/NV



NT/NV_Channel 0



NT/NV_Channel 19



NT/NV_Channel 39



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 ANTENNA POWER

Test Result

Condition	Operation Mode	Power	Power	Limit	Rated power	Tolerance (%)	Limit	Result
		(dBm)	(mW)	(mW)	(mW)			
BLE	2402	1.2608	1.336	10	1.3	2.77	20%	Pass
	2440	1.2875	1.345	10	1.3	3.46		
	2480	1.0419	1.271	10	1.3	-2.23		

Condition		Test Frequency	Conducted RF output power (dBm)	Antenna Gain (dB)	EIRP RF output power (dBm)	Limit (dBm/MHz)	Result
GFSK	BLE	2402MHz	1.2608	4.31	5.5708	12.14	Pass
		2440MHz	1.2875	4.31	5.5975	12.14	Pass
		2480MHz	1.0419	4.31	5.3509	12.14	Pass



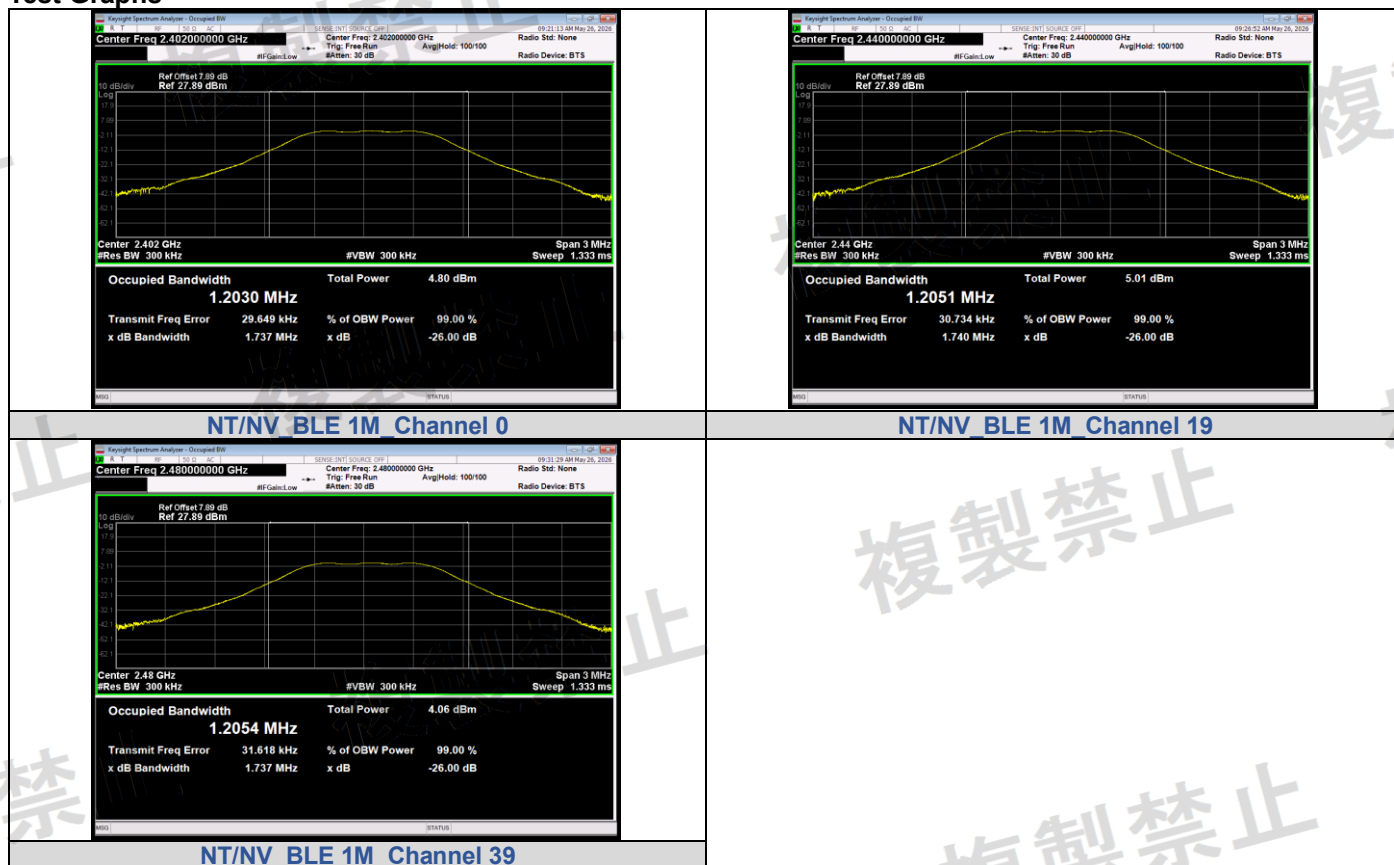
Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park,
No.30, Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong,
China

A.4 OCCUPIED BANDWIDTH (99% BW)

Test Result

Condition	Mode	Channel	Frequency (MHz)	99% BW (MHz)	Limit (MHz)	Result
NT/NV	BLE 1M	0	2402	1.2030	26	PASS
		19	2440	1.2051		PASS
		39	2480	1.2054		PASS

Test Graphs





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

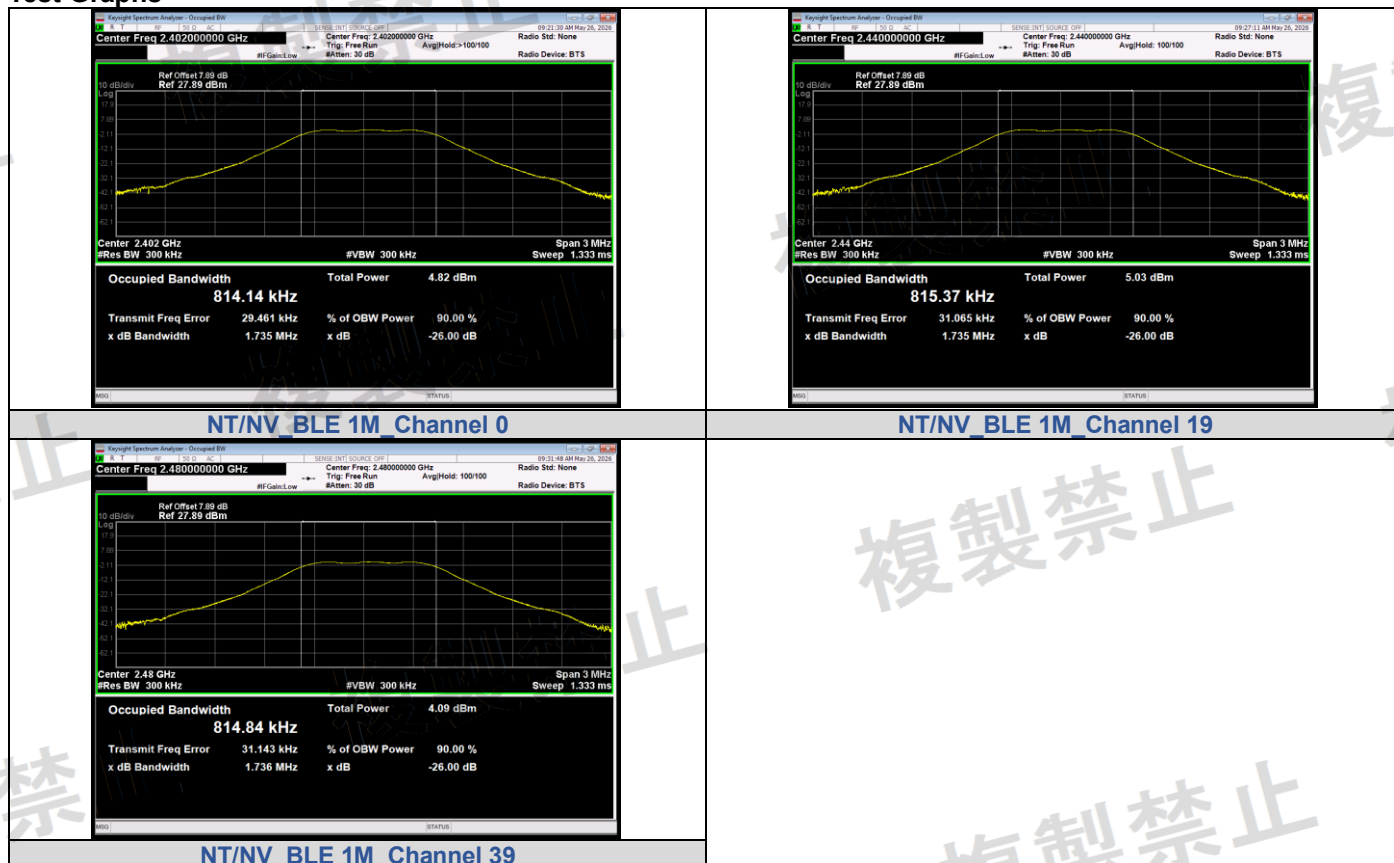
A.5 SPREADING BANDWIDTH (90% BW)

Test Result

Condition	Mode	Channel	Frequency (MHz)	90% SBW (MHz)	Spreading factor	Result
NT/NV	BLE 1M	0	2402	0.81414	13.0263	PASS
		19	2440	0.81537	13.0459	PASS
		39	2480	0.81484	13.0375	PASS

Note: Spreading Factor = 90% Bandwidth / 0.0625.

Test Graphs





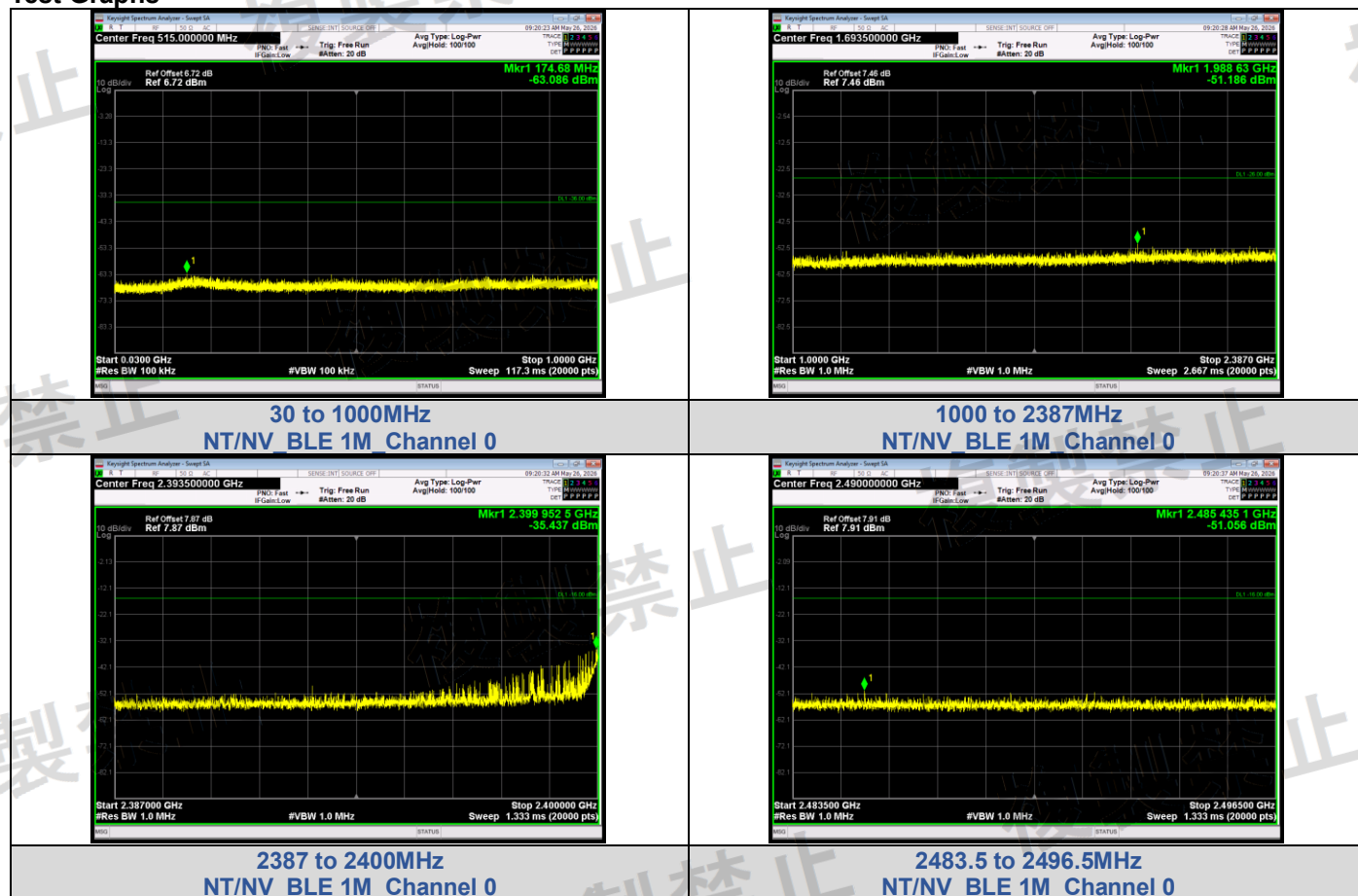
Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park,
No.30, Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong,
China

A.6 SPURIOUS EMISSIONS

Test Result BLE 1M

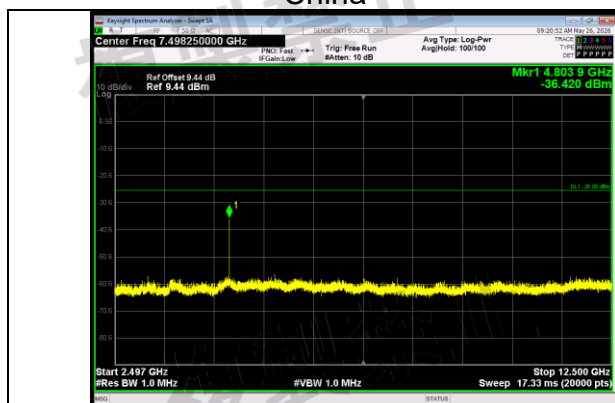
Condi tion	Frequen cy Range	Lowest Channel			Middle Channel			Highest Channel			Limit (μ W/M Hz)
		Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (μ W/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (μ W/MH z)	Peak (Mhz)	Measur ed Value (dbm)	Measur ed Value (μ W/MH z)	
NT/NV	30 to 1000	174.68 3	-53.086	0.005	781.98 2	-53.304	0.005	894.89 5	-52.954	0.005	0.25
NT/NV	1000 to 2387	1988.6 34	-51.186	0.008	2321.1 84	-52.160	0.006	2351.6 99	-51.944	0.006	2.5
NT/NV	2387 to 2400	2399.9 53	-35.437	0.286	2394.7 64	-51.810	0.007	2397.1 10	-51.900	0.006	25
NT/NV	2483.5 to 2496.5	2485.4 35	-51.056	0.008	2487.7 35	-51.785	0.007	2483.7 73	-44.243	0.038	25
NT/NV	2496.5 to 12500	4803.9 23	-36.420	0.228	4879.9 53	-40.275	0.094	4960.9 85	-42.366	0.058	2.5
Result:PASS											

Test Graphs

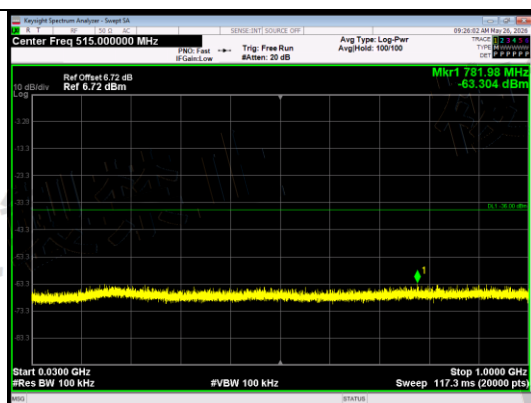




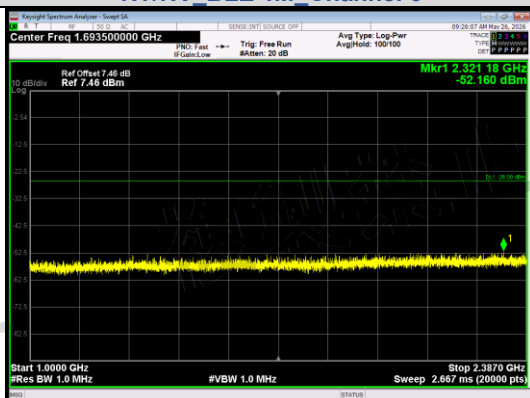
Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park,
No.30, Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong,
China



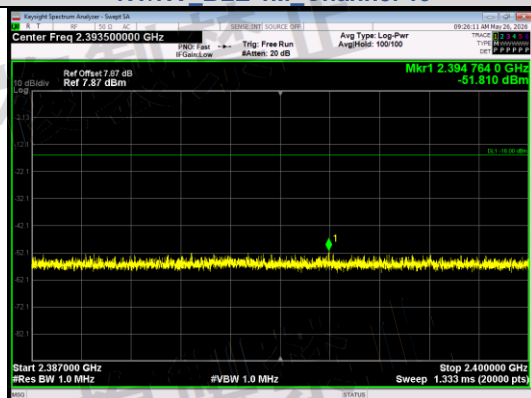
2496.5 to 12500MHz
NT/NV_BLE 1M Channel 0



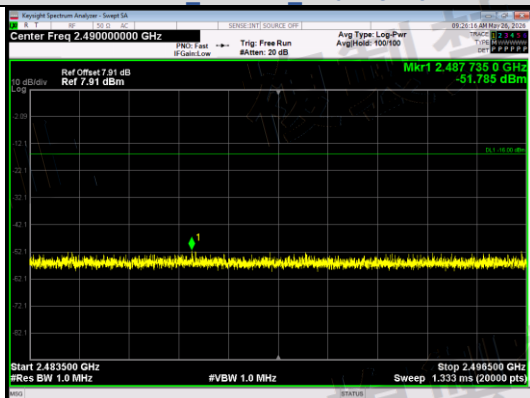
30 to 1000MHz
NT/NV_BLE 1M Channel 19



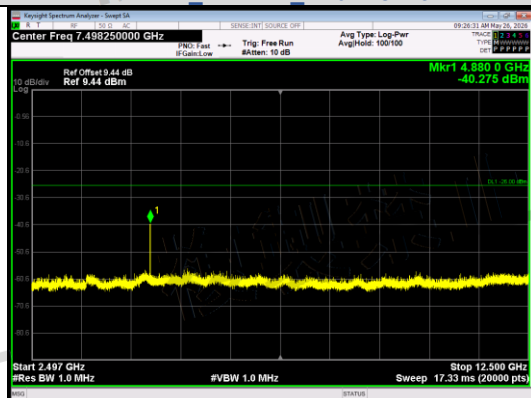
1000 to 2387MHz
NT/NV_BLE 1M Channel 19



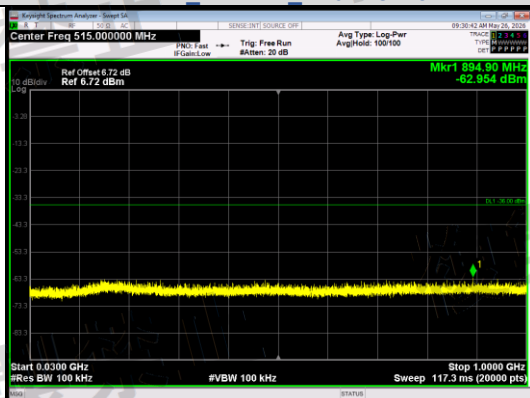
2387 to 2400MHz
NT/NV_BLE 1M Channel 19



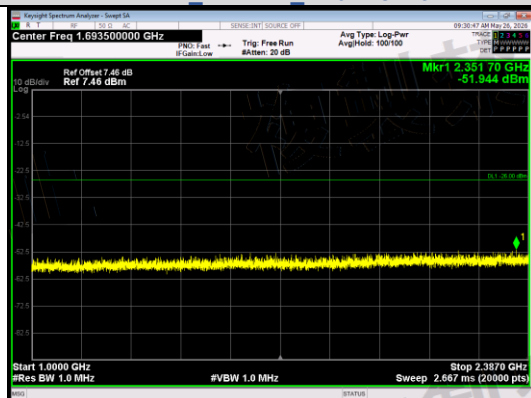
2483.5 to 2496.5MHz
NT/NV_BLE 1M Channel 19



2496.5 to 12500MHz
NT/NV_BLE 1M Channel 19



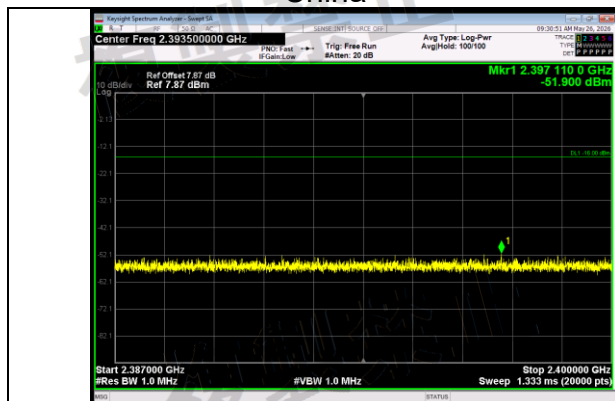
30 to 1000MHz
NT/NV_BLE 1M Channel 39



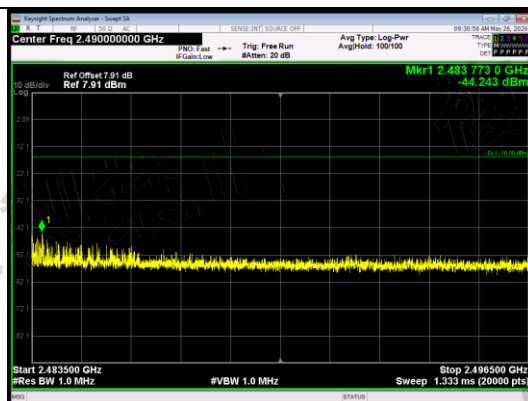
1000 to 2387MHz
NT/NV_BLE 1M Channel 39



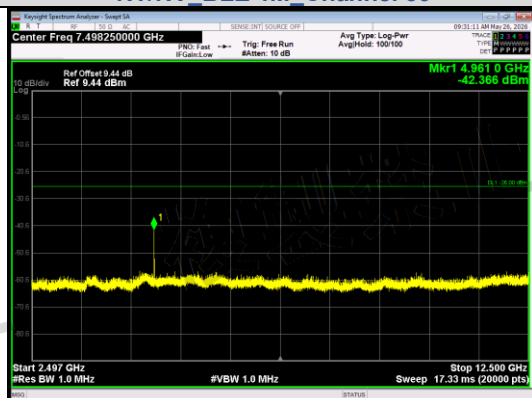
Keyway Testing Technology (Guangdong) Co., Ltd
21/F., Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park,
No.30, Tangxia District, Dongshen Road, Tangxia, Dongguan, Guangdong,
China



2387 to 2400MHz
NT/NV_BLE 1M_Channel 39



2483.5 to 2496.5MHz
NT/NV_BLE 1M_Channel 39



2496.5 to 12500MHz
NT/NV_BLE 1M_Channel 39



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.7 SPURIOUS EMISSIONS OF RECEIVER

Test Result BLE 1M

Condi tion	Frequen cy Range (MHz)	Lowest Channel			Middle Channel			Highest Channel			Limit (nW/M Hz)
		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	904.54 5	-73.609	0.044	904.49 5	-78.429	0.014	907.84 5	-73.074	0.049	4
NT/NV	1000 to 12500	5238.6 58	-66.776	0.21	4807.7 77	-68.948	0.127	1738.7 08	-64.897	0.324	20
Result:PASS											

Test Graphs

