

3-Axis Vibration TEST REPORT

Of ANSI C136.31-2018 Applied for SASO-2927

Kunde: <i>Client:</i>	MIC Optoelectronic Co., Ltd		
Adresse: <i>Address:</i>	2nd floor,Third Building, 97# AiNan Road,LongDong, BaoLong Street, LongGang District, Shenzhen, China		
Hersteller: <i>Manufacturer:</i>	MIC Optoelectronic Co., Ltd		
Adresse: <i>Address:</i>	2nd floor,Third Building, 97# AiNan Road,LongDong, BaoLong Street, LongGang District, Shenzhen, China		
Name der Marke: <i>Brand Name:</i>	MIC		
Beschreibung des Produkts: <i>Product Description:</i>	LED Street Light		
Modelle: <i>Models:</i>	MSL-F240		
Bewertung: <i>Rating:</i>	AC100-277V, 50/60Hz, 240W		
Verfahren: <i>Method:</i>	ANSI C136.31-2018: Roadway and Area Lighting Equipment —Luminaire Vibration		
Prüfergebnis*: <i>Test result*:</i>	Appearance Normal, Function Normal		
Datum der Prüfung: <i>Date of Test:</i>	Datum der Emission: <i>Date of Issue:</i>	Klassifizierung: <i>Classification:</i>	Gegenstand der Prüfung: <i>Test item:</i>
24-06-2025	07-07-2025	Commission Test	3-axis vibration test
Prüflabor (Testlabor) / Testing Laboratory: Shenzhen Southern LCS Compliance Testing Laboratory Ltd. 101-201, No.39 Buliding, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China			
Prepare von/Prepare by: <i>Seth Cai</i>	Check von/Check by: <i>Ian Luo</i>	Genehmigt von/Approved by: <i>Jesse Liu</i>	
Seth Cai/ Project Engineer	Ian Luo/ Director	Jesse Liu/ Manager	
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Test Item: Vibration Test

1. Environment conditions:

Temperature: 25.7℃ Humidity: 57%RH

2. Tested Sample:

Sample No.	Sample Name	Sample Model	Sample Quantity	Sample Description
001	LED Street Light	MSL-F240	1PC	Normal

3. Reference Basis: ANSI C136.31-2018

4. Test Condition:

1. Secure to the console and secure;
2. Swept Vibration:
 - a) Frequency(Hz): 2-30;
 - b) Acceleration(g): 0.2;
 - c) Swept rate(Oct/min): 1;
 - d) Test axial: X, Y, Z;
3. Fixed Vibration:
 - a) Frequency(Hz): Z-25.7Hz, X-(There is no resonance point, take 30.0Hz) ,Y-(There is no resonance point, take 30.0Hz);
 - b) Acceleration(g): 3g;
 - c) Test cycle(times): 100000.
4. Sample test condition: Non-Operation.
5. Judgement requirements: After the test, the sample has no visual damage, no parts are loose inside. The sample lit up normally.

5. Test Equipment:

Sequence	Equipment Name	Serial No.	Valid Date to
1	Vibration tester	LCS-S-532	March 08, 2026
2	Vibration tester	LCS-S-558	March 08, 2026

6. Test Results:

Sample No.	Test Result	Judge
001	After the test, the sample has no visual damage, no parts are loose in inside. The sample lit up normally.	PASS



Photo of sample for model MSL-F240**Sample Photo before the Test:****Sample Photo during the Test:**

X axis



Y axis



Z axis

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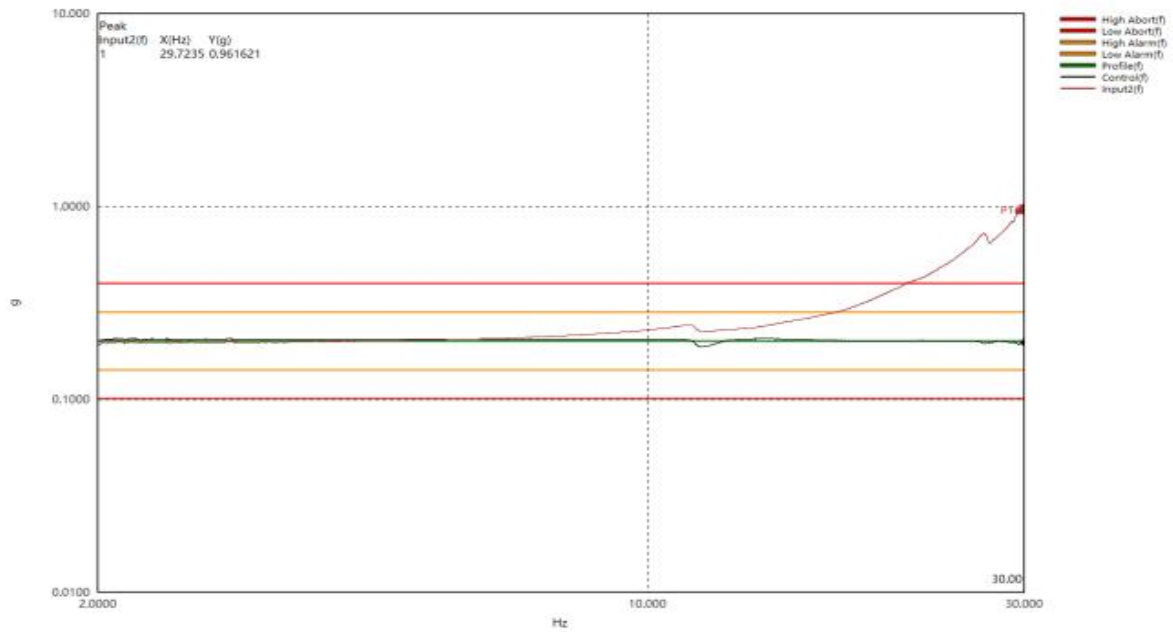
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Sample Photo after the Test:

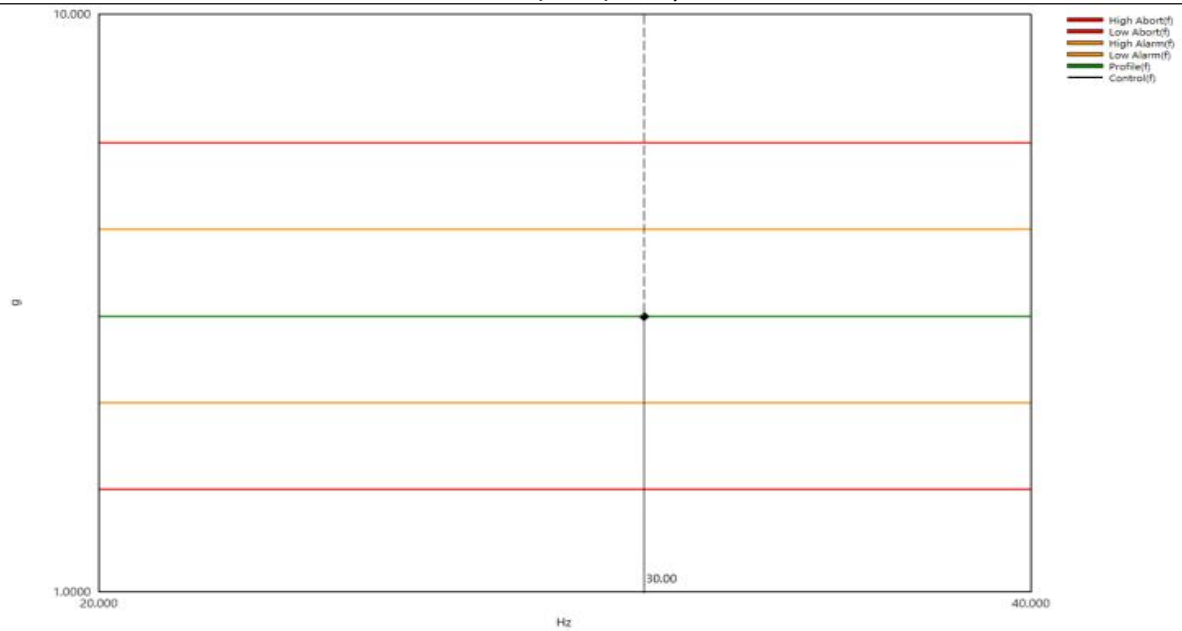
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Test Curve:

Sweep frequency X



Fixed Frequency (X-3G)

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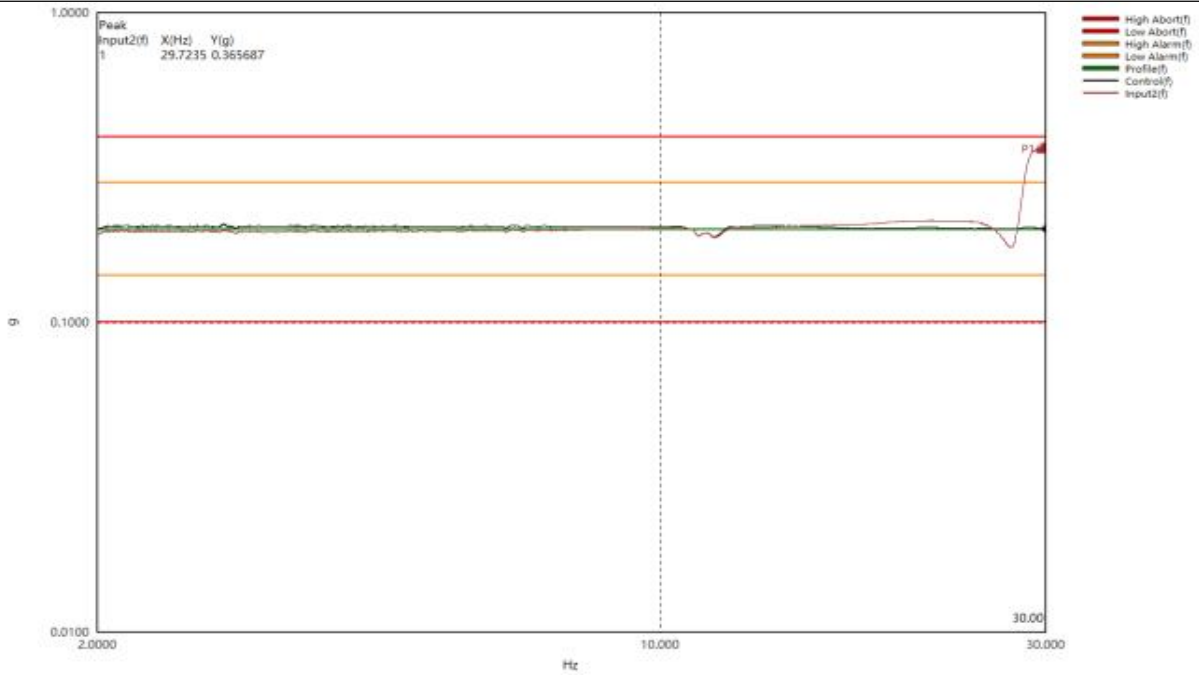
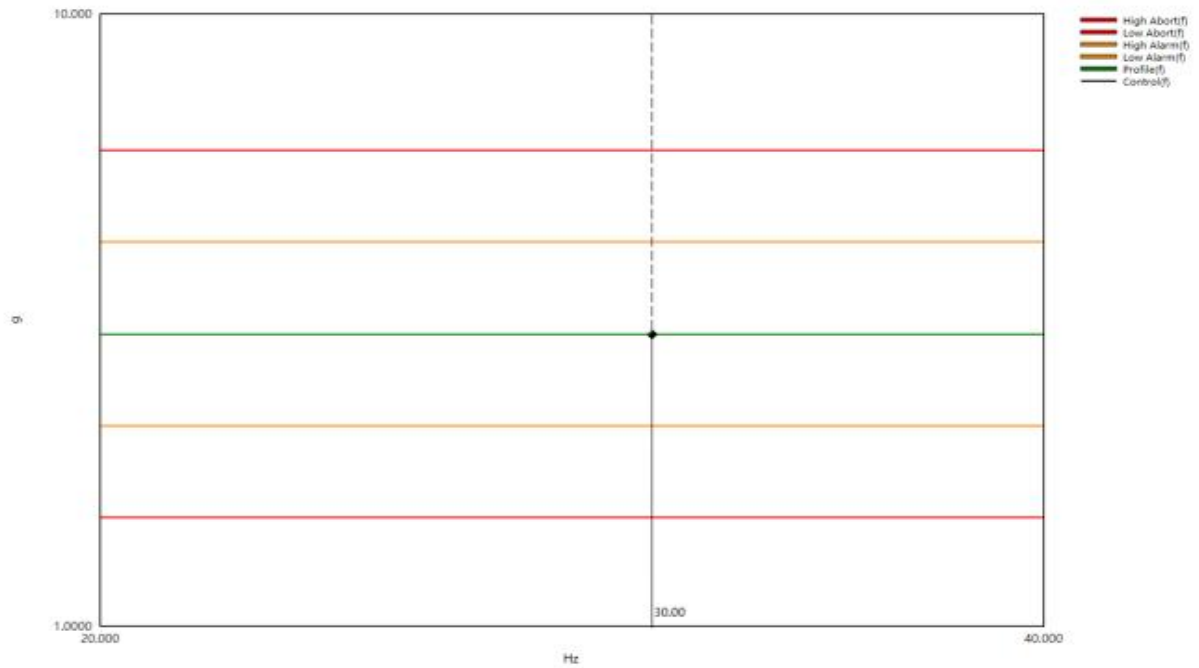


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Test Curve:**Swept Frequency Y****Fixed Frequency (Y-3G)**

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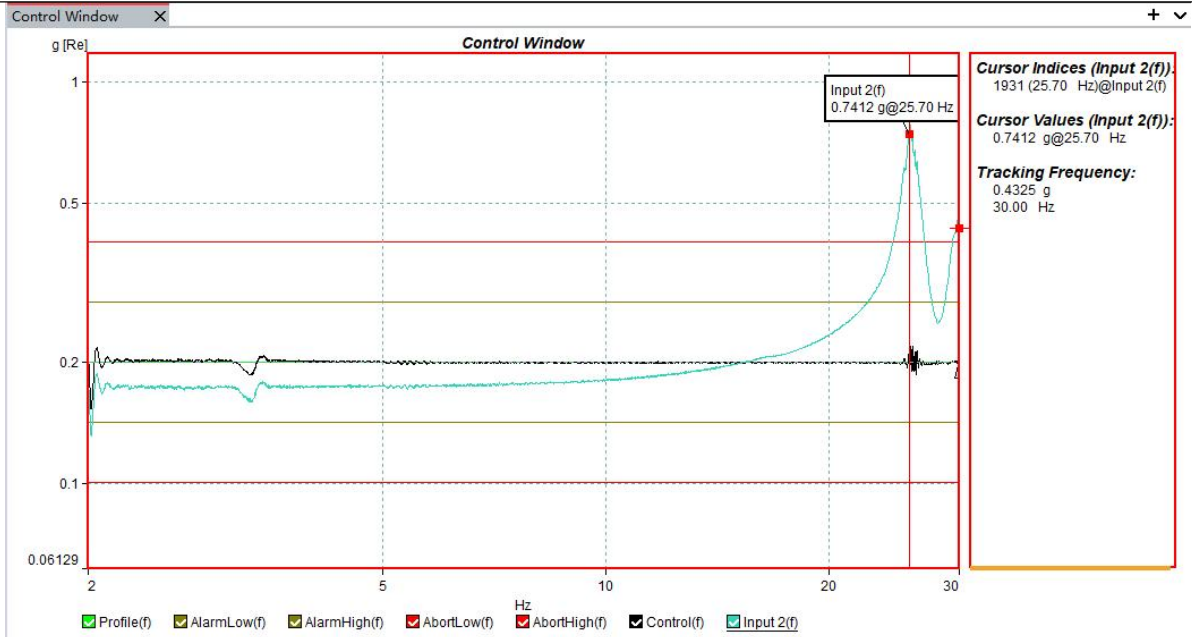
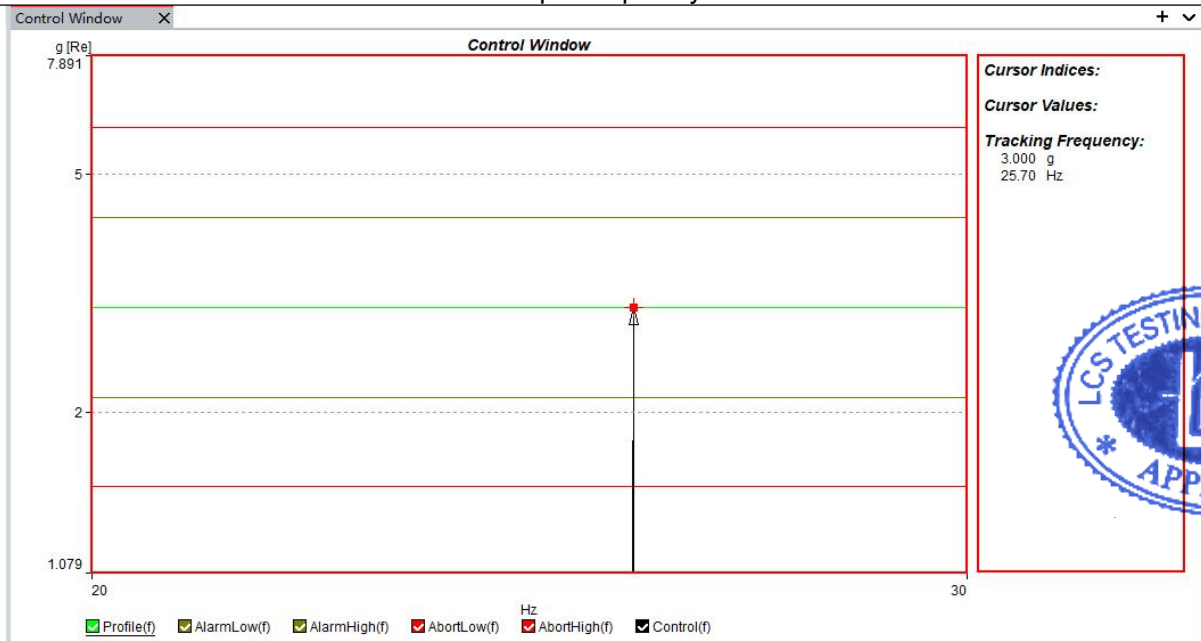


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Test Curve:**Swept Frequency Z****Fixed Frequency (Z-3G)**

----- End of test report -----

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