

报告编号 Rep. No.

D-20250323R05790X-R1



检测报告

TEST REPORT

委托单位名称 Client Name	惠伦晶体 Faith Long Crystal (YL)
产品名称 Name of product	石英晶体谐振器 Crystal resonator series
制造厂商 Manufacturer	----
型号 Model	SEAM
检测类别 Test sort	委托检测 Commission Test



中检集团南方测试股份有限公司

CCIC Southern Testing Co.,Ltd.

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客户信息 Customer information	委托单位 Client	惠伦晶体 Faith Long Crystal (YL)
	地址 Address	广东省东莞市黄江镇/重庆市綦江区万盛街道 Huangjiang Town, Dongguan City, Guangdong Province/Wansheng Street, Qijiang District, Chongqing City
样品信息 Sample information	样品名称 Name of sample	石英晶体谐振器 Crystal resonator series
	型号 Model	SEAM
	生产企业 Factory	惠伦晶体 Faith Long Crystal (YL)
检测信息 Test information	收样日期 Sample Received	2025.03.24
	检测周期 Testing Period	2025.03.24 ~ 2025.03.31
	检测活动地点 Testing location	广东省东莞市洪梅镇望沙路洪梅段 125 号 1 号楼 Building 1, No.125, Hongmei Section, Wangsha Road, Hongmei Town,Dongguan City,Guangdong Province, China.
	检测类别 Test sort	委托检测 Commission Test
	检测项目 Item Requested	见下页 See next page
	检测依据 Standard/Foundation	见检测数据。Please see the detecting data.
	检测结论 Conclusion	见下页 See next page
备注 Remark	标“☆”项目的结果/结论所依据的合格评定活动不在认可范围内。 The conformity assessment activities on which the conclusions of the “☆” items are not within the scope of CNAS accreditation.	

主检
Tested By:

Lu xue ling

审核
Checked By:

yan

批准
Approved By:

XuPeng

日期 Date:

Apr. 02, 2025

日期 Date:

Apr. 02, 2025

日期 Date:

Apr. 02, 2025



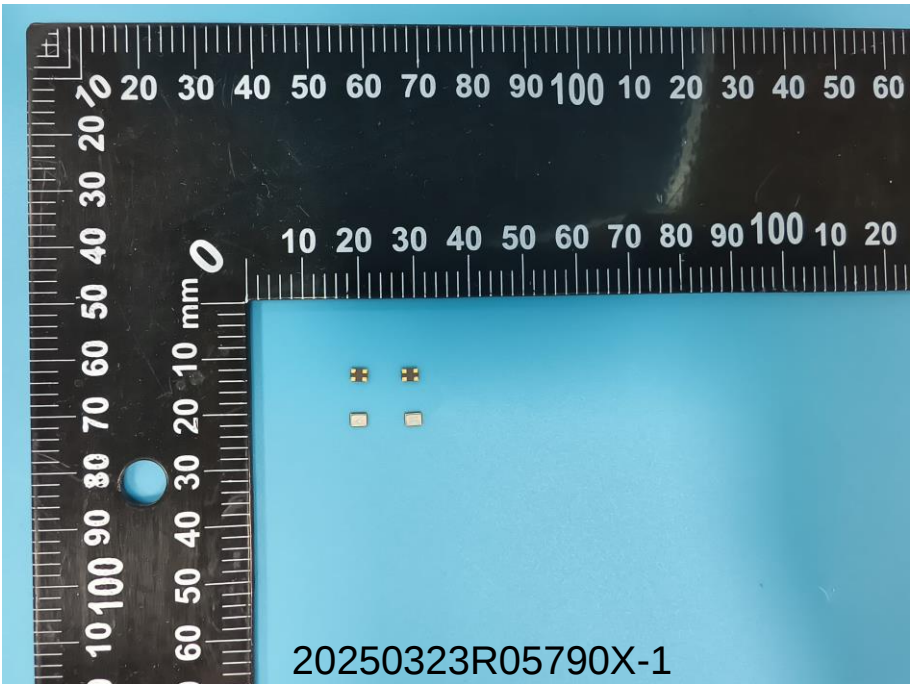
检测项目 Item Requested	检测结论 Conclusion
(1) 依据客户要求, 参照 RoHS 指令(2011/65/EU)和(EU)2015/863 修订指令的限值要求, 测试送检样品中的: 镉 Cd, 铅 Pb, 汞 Hg, 六价铬 Cr(VI), 多溴联苯 PBBs, 多溴二苯醚 PBDEs, 四种邻苯二甲酸盐(DIBP, DEHP, BBP, DBP) As specified by client, In accordance with the limit requirements of the RoHS Directive (2011/65/EU) and the amending Directive (EU)2015/863, test the samples: Cd, Pb, Hg, Cr(VI), PBBs, PBDEs, DIBP, DEHP, BBP, DBP	合格 PASS
(2) 依据客户要求, 参照标准 IEC 61249-2-21:2003, 测定委托样品中的氟(F), 氯(Cl), 溴(Br), 碘(I)。 As specified by client, to determine the F, Cl, Br, I content in the tested sample reference to standard IEC 61249-2-21:2003.	合格 (氟、碘除外) PASS (Except F, I)
(3) 依据客户要求, 测试送检样品中的☆全氟辛烷磺酸(PFOS), ☆全氟辛酸(PFOA)的含量。 As specified by client, test the ☆Perfluorooctane sulfonic acid (PFOS), ☆Perfluorooctanoic acid (PFOA) content in the submitted sample.	见检测数据 Please see the detecting data



样品描述 Tested components Description:

编号 Specimen No.	样品 ID Sample ID	描述 Description	项目 Item
1	20250323R05790X-1	整体测试 Overall test	见检测数据。 Please see the detecting data.

样品照片 Sample Photo:





检测结果 Test Results:

(1) 镉 Cd, 铅 Pb, 汞 Hg, 六价铬 Cr(VI), 多溴联苯 PBBs, 多溴二苯醚 PBDEs, 四种邻苯二甲酸盐(DIBP, DEHP, BBP, DBP)

检测依据 Standard/Foundation:

- 依据 IEC 62321-5:2013, 使用 ICP-OES 测定聚合物和电子材料中的镉、铅和铬, 以及金属中的镉和铅
According to IEC 62321-5:2013, Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by ICP-OES
- 依据 IEC 62321-4:2013+A1:2017, 使用 ICP-OES 测定聚合物、金属和电子材料中的汞
According to IEC 62321-4:2013+A1:2017, Mercury in polymers, metals and electronics by ICP-OES
- 依据 IEC 62321-7-2:2017, 比色法测定六价铬
According to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric method
- 依据 IEC 62321-6:2015, 使用 GC-MS 测定多溴联苯和多溴二苯醚
According to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
- 依据 IEC 62321-8:2017, 使用 GC-MS 测定邻苯二甲酸盐
According to IEC 62321-8:2017, determination of phthalates by GC-MS

检测项目 Testing Item (s)	编号 Specimen No.	浓度 Concentration (mg/kg)	MDL (mg/kg)	限值 Required Limit (mg/kg)
		1		
镉 Cd		N.D.	2	100
六价铬 Cr(VI)		N.D.	8	1000
汞 Hg		N.D.	2	1000
铅 Pb		N.D.	2	1000
一溴联苯 Monobromobiphenyl		N.D.	5	-----
二溴联苯 Dibromobiphenyl		N.D.	5	-----
三溴联苯 Tribromobiphenyl		N.D.	5	-----
四溴联苯 Tetrabromobiphenyl		N.D.	5	-----
五溴联苯 Pentabromobiphenyl		N.D.	5	-----
六溴联苯 Hexabromobiphenyl		N.D.	5	-----
七溴联苯 Heptabromobiphenyl		N.D.	5	-----
八溴联苯 Octabromobiphenyl		N.D.	5	-----
九溴联苯 Nonabromobiphenyl		N.D.	5	-----
十溴联苯 Decabromobiphenyl		N.D.	5	-----
多溴联苯 Polybrominated Biphenyls (PBBs)		N.D.	-----	1000
一溴二苯醚 Monobromodiphenyl ether		N.D.	5	-----
二溴二苯醚 Dibromodiphenyl ether		N.D.	5	-----



检测项目 Testing Item (s)	编号 Specimen No.	浓度 Concentration (mg/kg)	MDL (mg/kg)	限值 Required Limit (mg/kg)
		1		
三溴二苯醚 Tribromodiphenyl ether		N.D.	5	-----
四溴二苯醚 Tetrabromodiphenyl ether		N.D.	5	-----
五溴二苯醚 Pentabromodiphenyl ether		N.D.	5	-----
六溴二苯醚 Hexabromodiphenyl ether		N.D.	5	-----
七溴二苯醚 Heptabromodiphenyl ether		N.D.	5	-----
八溴二苯醚 Octabromodiphenyl ether		N.D.	5	-----
九溴二苯醚 Nonabromodiphenyl ether		N.D.	5	-----
十溴二苯醚 Decabromodiphenyl ether		N.D.	5	-----
多溴二苯醚 Polybrominated Diphenyl ethers (PBDEs)		N.D.	-----	1000
邻苯二甲酸(2-乙基己基)酯(DEHP) Di-2-ethylhexyl phthalate		N.D.	30	1000
邻苯二甲酸二正丁酯(DBP) Dibutyl phthalate		N.D.	30	1000
邻苯二甲酸丁基苄酯(BBP) Benzylbutyl phthalate		N.D.	30	1000
邻苯二甲酸二异丁酯(DIBP) Diisobutyl phthalate		N.D.	30	1000

备注 Note:

-MDL = 方法检出限 Method Detection Limit

-N.D. = 未检出 Not Detected (<方法检出限 MDL)



(2) 氟(F), 氯(Cl), 溴(Br), 碘(I)

检测依据 Standard/Foundation:

参考方法:EN 14582:2016, 分析仪器: IC

With reference to EN 14582:2016, Analysis was performed by IC

检测项目 Testing Item (s)	编号 Specimen No.	浓度 Concentration (mg/kg)	MDL (mg/kg)	限值 Limit (mg/kg)
		1		
氟 F		N.D.	50	----
氯 Cl		N.D.	50	900
溴 Br		N.D.	50	900
碘 I		N.D.	50	----
氯 Cl+溴 Br		*N.D.	----	1500

备注 Note:

-mg/kg=ppm

-MDL =方法检出限 Method Detection Limit

-N.D. =未检出 (<方法检出限) Not Detected (<MDL)

-*数值加和不包括浓度为“N.D.”的结果。

*if the test item(Cl or Br) is not detected, the correspondence result will not be calculated in the total Cl+Br concentration.



(3) 全氟辛烷磺酸(PFOS), 全氟辛酸(PFOA)

Perfluorooctane sulfonic acid (PFOS), Perfluorooctanoic acid (PFOA)

检测依据 Standard/Foundation:

参考方法: CEN/TS 15968:2010, 分析仪器: LC-MS-MS

With reference to CEN/TS 15968:2010, and analysis was performed by LC-MS-MS

检测项目 Testing Item (s)	CAS 号 CAS No.	浓度 Concentration (mg/kg)	方法检出限 MDL (mg/kg)
		1	
☆全氟辛基磺酸(PFOS) Perfluorooctane sulfonic acid (PFOS)	1763-23-1	N.D.	0.01
☆全氟辛酸 (PFOA) Perfluorooctanoic acid (PFOA)	335-67-1	N.D.	0.01

备注 Note:

-mg/kg=ppm

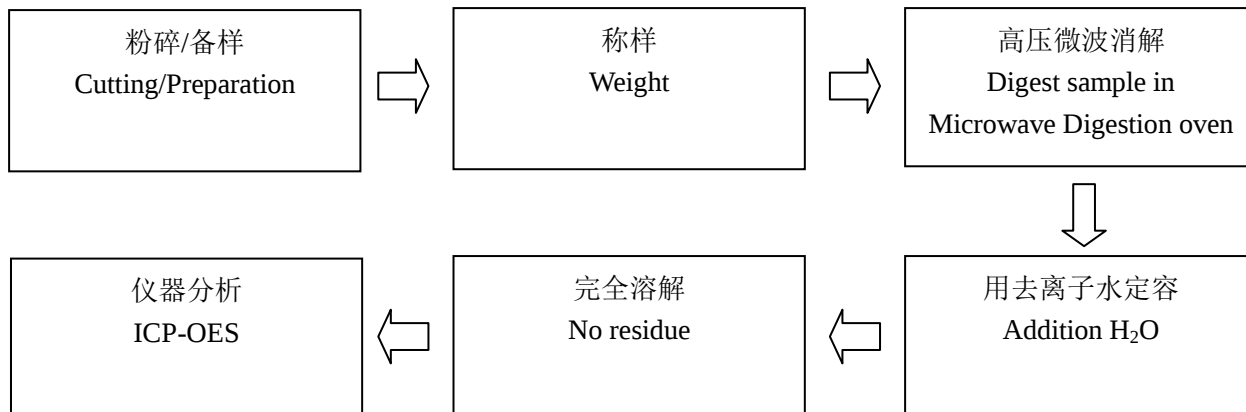
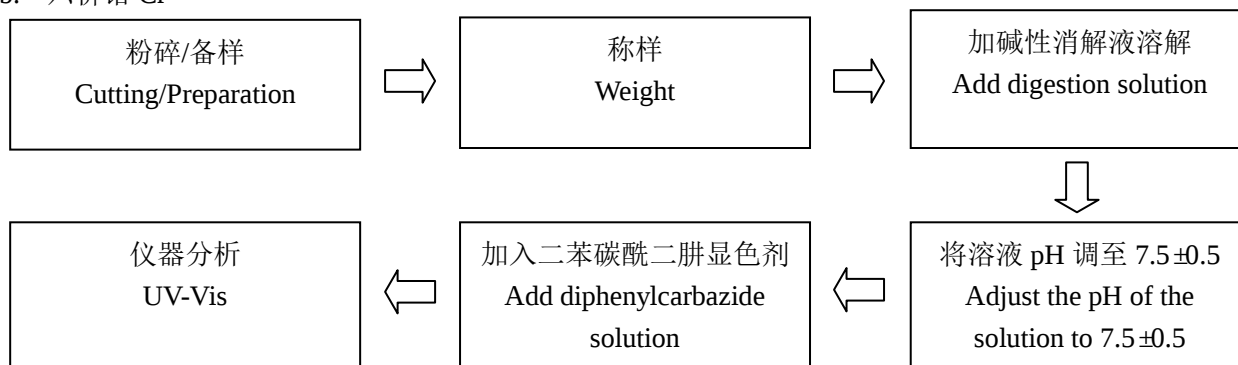
-MDL =方法检出限 Method Detection Limit

-N.D. =未检出 (<方法检出限) Not Detected (<MDL)

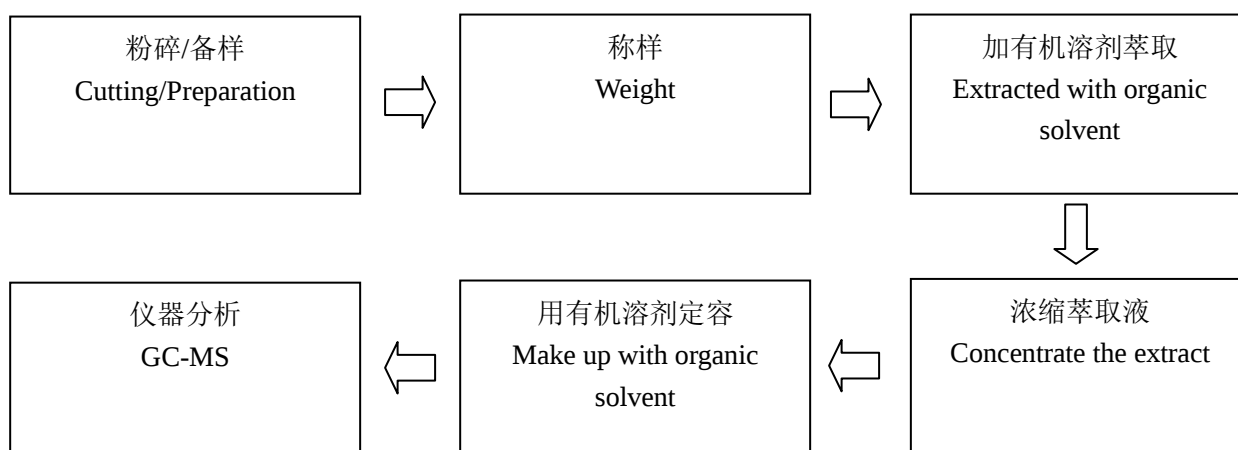


检测流程图 Testing Flow Chart:

a. 镉 Cd 铅 Pb 汞 Hg

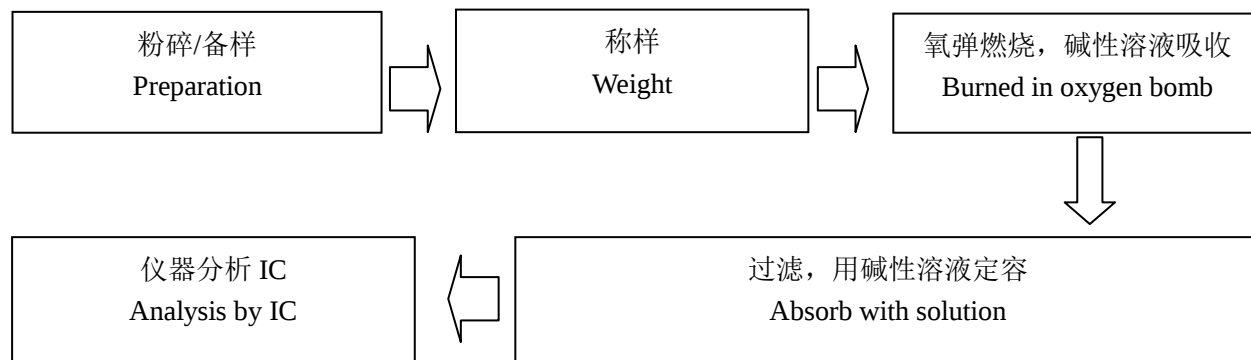
b. 六价铬 Cr⁶⁺

c. 阻燃剂 PBBs&PBDEs, DIBP, DEHP, BBP, DBP





d.氟(F), 氯(Cl), 溴(Br), 碘(I)



*****报告结束 END OF REPORT *****



声 明

STATEMENT

1. 报告未加盖“检验检测专用章”无效。

The test report is invalid without stamp of laboratory.

2. 报告无检测、批准人员签字无效。

The test report is invalid without signature of person(s) testing and authorizing.

3. 报告涂改无效。

The test report is invalid if erased and corrected.

4. 自送样品的检测结论仅对送检样品有效。

Test results of the report is valid to the test samples if sampling by client.

5. “☆”项目未通过 CNAS 认可。

“☆”item to be outside the scope of authorized by CNAS.

6. 未加盖资质认定标志的报告，不具有对社会的证明作用。

The report without the "CMA" stamp shall not have a certifying effect on the society.

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The test report shall not be reproduced except in full, without written approval of the laboratory.

8. 如对本报告有异议，可在收到报告后 15 天内向本单位申诉，逾期不予受理。

If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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