

Test Report

No.: EGZ2208040042C00201RM1

Date: Aug. 17, 2022

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Applicant : Chipintelli Technology Co., Ltd.
委托单位 : 成都启英泰伦科技有限公司
Address : THE 12TH FLOOR,BUILDING 4A, JINGRONGHUI, NO.200 TIANFU 5TH
STREET, HIGH-TECH ZONE, CHENGDU, CHINA.
地 址 : 成都市高新区天府五街 200 号菁蓉汇 4A 栋 12 楼

Sample Name : Smart voice chip
样品名称 : 智能语音芯片
Model/型号 : CI1306
Lot No. / 批号 : NA
Description / 描述 : Smart voice chip QFN40 / 智能语音芯片 QFN40
Size/尺寸 : 长: 0.49cm, 宽: 0.50cm
Weight/重量 : 0.0660g

Received Date : Aug. 04, 2022
接收日期 : 2022 年 08 月 04 日
Test Period : Aug. 04, 2022~ Aug. 10, 2022
检测日期 : 2022 年 08 月 04 日~2022 年 08 月 10 日
Revise Date : Aug. 17, 2022
修订日期 : 2022 年 08 月 17 日

Test Requested : As requested by client, according to RoHS Directive(EU) 2015/863 amending Annex
检测要求 : II to Directive 2011/65/EU, to determine:
根据客户要求, 依据欧盟 RoHS 指令 2011/65/EU 附录 II 的修订指令(EU) 2015/863,
检测以下项目:
1) the content of Lead(Pb), Cadmium (Cd) and Mercury(Hg) in the submitted
sample;
样品中的铅(Pb), 镉(Cd)和汞(Hg)的含量;
2) the content of Hexavalent Chromium(Cr(VI)) in the submitted sample;
样品中的六价铬(Cr(VI))的含量;

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- 3) the content of Polybrominated Biphenyls(PBBs) and Polybrominated Diphenyl-Ethers(PBDEs) in the submitted sample;
样品中的多溴联苯(PBBs)以及多溴二苯醚(PBDEs)的含量;
- 4) the content of Bis(2-ethylhexyl)phthalate(DEHP), Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP), and Diisobutyl phthalate(DIBP) in the submitted sample.
样品中的邻苯二甲酸二(2-乙基己)酯(DEHP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苄酯(BBP)和邻苯二甲酸二异丁酯(DIBP)的含量。

Test Results : Please refer to next page (s).
检测结果 : 请参看随后页面。

Executive Summary:
执行测试总结:

STANDARD

标准

RoHS Directive(EU) 2015/863 amending Annex II to Directive 2011/65/EU
欧盟 RoHS 指令 2011/65/EU 附录 II 的修订指令(EU) 2015/863

CONCLUSION

结论

PASS
合格

Signed for and on behalf of
EMTEK(Guangzhou) Co., Ltd.

Prepared by:

Lainey

Tang Lidong, Lainey
Assistant engineer

Reviewed by:

Ethan

Sun Wei, Ethan
Technical supervisor

Approved by:



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Test Sample List:
检测样品清单:

Sample No. 样品编号	Sample Name 样品名称	Sample Description 样品描述
1-1	Smart voice chip-pin 智能语音芯片-引脚	Silvery metal 银色金属
1-2	Smart voice chip 智能语音芯片	Chip 芯片

Test Results:
检测结果:

Metal :
金属:

Test Method :
检测方法:

- 1) to refer to IEC 62321-5:2013, determine the Lead, Cadmium content by ICP-OES.
参照 IEC 62321-5:2013, 用 ICP-OES 测定铅、镉的含量。
- 2) to refer to IEC 62321-4:2013+A1:2017, determine the Mercury content by ICP-OES.
参照 IEC 62321-4:2013+A1:2017, 用 ICP-OES 测定汞的含量。
- 3) to refer to IEC 62321-7-1:2015, determine the Hexavalent Chromium content by UV-VIS.
参照 IEC 62321-7-1:2015, 用 UV-VIS 测定六价铬的含量。

Analyte 被分析物	Unit 单位	Test Result 测试结果	MDL	Limit 限值
		1-1		
Lead (Pb) 铅 (Pb)	mg/kg	ND	2	1000
Cadmium (Cd) 镉 (Cd)	mg/kg	ND	2	100
Mercury (Hg) 汞 (Hg)	mg/kg	ND	2	1000
Hexavalent Chromium (Cr(VI)) [#] 六价铬 (Cr(VI)) [#]	μg/cm ²	ND	0.1	---

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Note:

备注:

(1). mg/kg = milligram per kilogram = ppm

mg/kg = 毫克/千克 = 百万分之一

MDL = Method Detection Limit

MDL = 方法检测限

 $\mu\text{g}/\text{cm}^2$ = microgramme per square centimeter $\mu\text{g}/\text{cm}^2$ = 微克/平方厘米

ND = Not Detected (Less than MDL)

ND = 未检测到 (小于 MDL)

(2). “#”=

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13\mu\text{g}/\text{cm}^2$.
The sample coating is considered to contain Cr(VI).

当六价铬结果大于 $0.13\mu\text{g}/\text{cm}^2$, 表示样品镀层含有六价铬。

b. The sample is negative for Cr(VI) if the Cr(VI) concentration is ND (concentration less than $0.10\mu\text{g}/\text{cm}^2$). The sample is considered a non-Cr(VI) based coating.

当六价铬结果为 ND (浓度小于 $0.10\mu\text{g}/\text{cm}^2$), 表示样品镀层不含有六价铬。

c. The result between is $0.10\mu\text{g}/\text{cm}^2$ and $0.13\mu\text{g}/\text{cm}^2$ is considered to be inconclusive-unavoidable coating variations may influence the determination.

当六价铬结果介于 0.10 及 $0.13\mu\text{g}/\text{cm}^2$ 时, 无法确定镀层是否含有六价铬。

(3). Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been digested thoroughly.

对于测试铅、镉、汞的样品已完全消解。

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Test Results:

检测结果:

Non-metal:

非金属:

Test Method :

检测方法:

- 1) to refer to IEC 62321-5:2013, determine the Lead, Cadmium content by ICP-OES.
参照 IEC 62321-5:2013, 用 ICP-OES 测定铅、镉的含量。
- 2) to refer to IEC 62321-4:2013+A1:2017, determine the Mercury content by ICP-OES.
参照 IEC 62321-4:2013+A1:2017, 用 ICP-OES 测定汞的含量。
- 3) to refer to IEC 62321-7-2:2017, determine the Hexavalent Chromium content by UV-VIS.
参照 IEC 62321-7-2:2017, 用 UV-VIS 测定六价铬的含量。
- 4) to refer to IEC 62321-6:2015, determine the Polybrominated Biphenyls(PBBs) and Polybrominated Diphenyl- Ethers(PBDEs) by GC-MS.
参照 IEC 62321-6:2015, 用 GC-MS 测定多溴联苯(PBBs)和多溴二苯醚(PBDEs)的含量。
- 5) to refer to IEC 62321-8:2017, determine the Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP) and Diisobutyl phthalate(DIBP) by GC-MS.
参照 IEC 62321-8:2017, 用 GC-MS 测定邻苯二甲酸二(2-乙基己)酯(DEHP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁基酯(BBP)和邻苯二甲酸二异丁酯(DIBP)的含量。

Analyte 被分析物	Test Result (mg/kg) 检测结果	MDL (mg/kg)	Limit 限值 (mg/kg)
	1-2		
Lead (Pb) 铅 (Pb)	ND	2	1000
Cadmium (Cd) 镉 (Cd)	ND	2	100
Mercury (Hg) 汞 (Hg)	ND	2	1000
Hexavalent Chromium (Cr(VI)) 六价铬 (Cr(VI))	ND	8	1000
Polybrominated Biphenyls (Mono – Deca) (PBBs) 多溴联苯 (1 – 10) (PBBs)	ND	--	1000
Monobromobiphenyl 一溴联苯	ND	5	--
Dibromobiphenyl 二溴联苯	ND	5	--
Tribromobiphenyl 三溴联苯	ND	5	--
Tetrabromobiphenyl 四溴联苯	ND	5	--
Pentabromobiphenyl 五溴联苯	ND	5	--
Hexabromobiphenyl 六溴联苯	ND	5	--

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Analyte 被分析物	Test Result (mg/kg) 检测结果	MDL (mg/kg)	Limit 限值 (mg/kg)
	1-2		
Heptabromobiphenyl 七溴联苯	ND	5	--
Octabromobiphenyl 八溴联苯	ND	5	--
Nonabromobiphenyl 九溴联苯	ND	5	--
Decabromobiphenyl 十溴联苯	ND	5	--
Polybrominated Diphenylethers (Mono – Deca) (PBDEs) 多溴二苯醚 (1 – 10) (PBDEs)	ND	--	1000
Monobromodiphenyl ether 一溴二苯醚	ND	5	--
Dibromodiphenyl ether 二溴二苯醚	ND	5	--
Tribromodiphenyl ether 三溴二苯醚	ND	5	--
Tetrabromodiphenyl ether 四溴二苯醚	ND	5	--
Pentabromodiphenyl ether 五溴二苯醚	ND	5	--
Hexabromodiphenyl ether 六溴二苯醚	ND	5	--
Heptabromodiphenyl ether 七溴二苯醚	ND	5	--
Octabromodiphenyl ether 八溴二苯醚	ND	5	--
Nonabromodiphenyl ether 九溴二苯醚	ND	5	--
Decabromodiphenyl ether 十溴二苯醚	ND	5	--
Bis(2-ethylhexyl)phthalate(DEHP) 邻苯二甲酸二(2-乙基己)酯(DEHP)	ND	30	1000
Dibutyl phthalate(DBP) 邻苯二甲酸二丁酯 (DBP)	ND	30	1000
Benzylbutyl phthalate(BBP) 邻苯二甲酸丁苄酯 (BBP)	ND	30	1000
Diisobutyl phthalate (DIBP) 邻苯二甲酸二异丁酯(DIBP)	ND	30	1000

Note:
备注:

- (1). mg/kg = milligram per kilogram = ppm
mg/kg = 毫克/千克 = 百万分之一
ND = Not Detected (Less than MDL)
ND = 未检测到 (小于 MDL)

MDL = Method Detection Limit
MDL = 方法检测限

- (2). Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been digested thoroughly.
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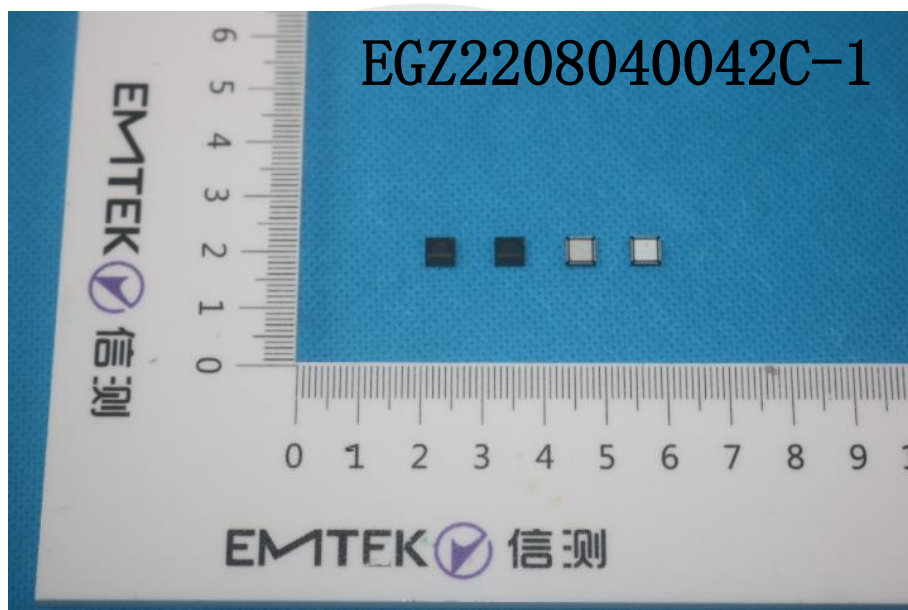
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Declaration: Report EGZ2208040042C00201R was repealed and replaced by Report EGZ2208040042C00201RM1.

声明: 报告 EGZ2208040042C00201R 作废, 由报告 EGZ2208040042C00201RM1 所取代。

Sample Photo:

样品照片:



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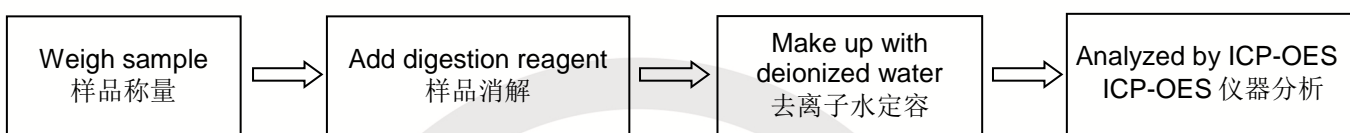
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Test Flowchart:

检测流程图:

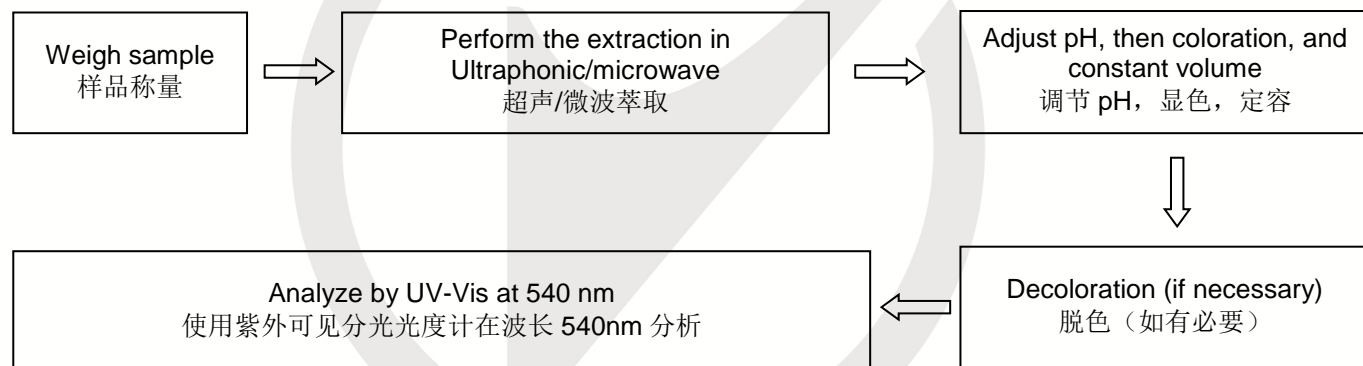
Pb/Cd/Hg Test Process :

Pb/Cd/Hg 检测流程:



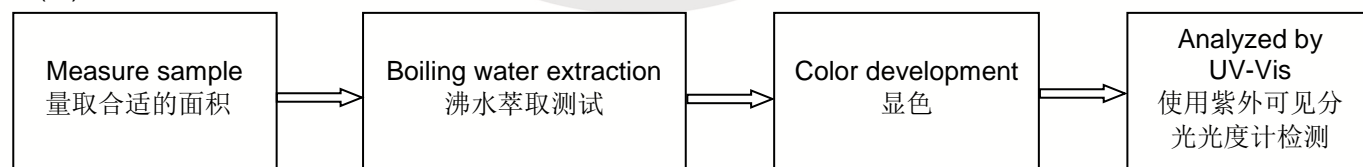
Cr(VI) Test Process(Non-metal):

Cr(VI) 检测流程(非金属):



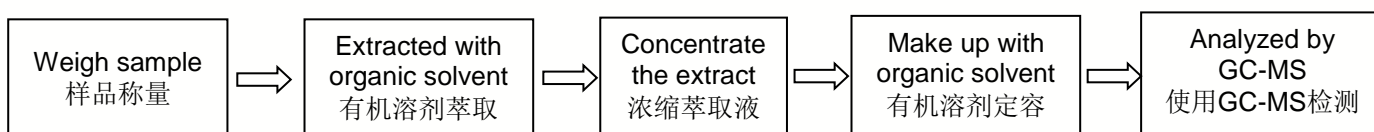
Cr (VI) Test Process(Metal):

Cr(VI) 检测流程 (金属):



PBBs & PBDEs Test Process:

PBBs & PBDEs 检测流程:



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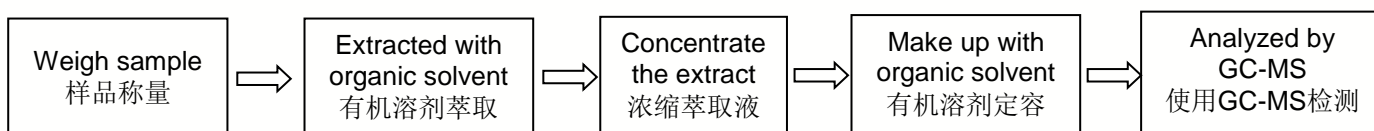
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DEHP, DBP, BBP, DIBP Test Process:
DEHP,DBP,BBP 和 DIBP 检测流程:



*** End of Report ***
*** 报告结束 ***

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声明 Statement

1. 本检测报告首页所列信息中除样品来源、接样日期、检测日期、检测结果和检测结论外，均由委托方提供，委托方对样品的代表性和资料的真实性负责，本实验室不承担任何相关责任。
The information as listed on the first page of this test report was all provided by the client except the sample from, date received, test period, test results and test conclusion. The client shall be responsible for the representativeness of sample and authenticity of materials, for which EMTEK shall bear no responsibilities.
2. 本检测报告以实测值进行符合性判定，未考虑不确定度所带来的风险，特别约定、标准或规范中有明确规定的除外。此种判定方式所带来的风险由客户自行承担，本实验室不承担相关责任。
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The test items are marked with special symbols in the report is out of the scope of CMA accreditation. The test result only used for client's requirement, scientific researching, teaching or internal quality control.
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3. 除非相关政府部门、法律或法院要求，否则未经公司预先书面同意，本公司毋庸，也并无义务到法院对有关报告作证。
The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. 如果本公司确定报告被不当地使用，本公司保留撤回报告的权利，并有权要求其它适当的额外赔偿。
In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. 本公司接受样品进行测试的前提是，该测试报告不能作为针对本公司法律行动的依据。
Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. 如因使用本公司中心任何报告内的资料，或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害，本公司概不负责。
The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. 若需要在法院审理程序或者仲裁过程中使用测试报告，客户必须在提交测试样品前将该意图告知本公司。
Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括（但不限于）补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权（包括疏忽）、产品责任或其他原因的惩罚性损害。
Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

