

## 测试报告 (SVHC)

No. SHAEC2107392604

日期: 2021年05月11日 第1页,共19页

乐鑫信息科技(上海)股份有限公司  
中国上海张江高科微电子港碧波路690号2号楼204

以下测试之样品是由申请者所提供及确认: ESP32模组

SGS工作编号: SP21-010908 - SH

客户参考信息: 见附件

样品接收日期: 2021年04月20日

测试周期: 2021年04月20日 - 2021年04月26日

测试要求: 根据客户要求,

(i) 基于欧洲化学品管理署截止2021年1月19日公布的供授权审议的高关注物质候选清单(根据欧盟第1907/2006号REACH法规), 对211种高关注物质(SVHC)进行筛分测试。

(ii) 基于欧洲化学品管理署截止2021年3月9日公布的潜在的的高关注物质咨询清单(根据欧盟第1907/2006号REACH法规), 对8种高关注物质(SVHC)进行筛分测试。

测试结果: 请参见下一页

总结:

根据欧盟法院对REACH物品定义的裁定, 以及具体的范围和筛分测试, 所提交样品的部件中SVHC测试结果 $\leq 0.1\%$ (w/w)。	通过
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授权签名

倪俊

Tom Ni倪俊  
批准签署人

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备注:

1. 本报告所涉及的关于特定高关注物质的化学分析是根据欧洲化学品管理署发布的下列文件, 利用现有的分析技术完成的。

<http://echa.europa.eu/web/guest/candidate-list-table>

这些文件清单由欧洲化学品管理署评估, 将来可能会有变化。

2. REACH法规义务:

### 2.1 关于物品:

告知:

欧盟第1907/2006 (EC) 号法规第33条规定, 含有满足第57条中的标准并根据第59条第一款被确定且质量分数大于0.1%的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息, 以使物品使用安全, 这些信息至少包括含有的候选清单中物质的名称。

通报:

根据欧盟第1907/2006 (EC) 号法规, 如果满足以下两个条件, 如果物质符合第57条中的标准并根据第59条第一款被确定, 物品的任何欧洲制造商或进口商应根据第7条第4款向欧盟化学品管理署进行通报: (a) 候选清单中的物质在物品中的总含量超过1吨/年/生产商或进口商; (b) 候选清单中的物质在物品中的总含量以质量分数计超过0.1% 的浓度。

SGS采用欧盟法院对REACH物品定义的裁定, 除非另有说明。详细的解释请见下列网址:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

### 2.2 关于材料:

报告中的测试结果是基于测试样品。如样品是均一材质, 当其构成成品时, 此结果不能代表成品中的SVHC浓度。如样品为均一材质等比例合测, 这些材质也可能来自不同的物品。

如果样品是一种物质或混合物, 并且直接出口到欧盟, 客户有责任遵守欧盟第1907/2006号REACH法规第31 条供应链信息传递的义务和附件十四中的授权高关注物质授权的责任。

### 2.3 关于物质和配制品:

如果样品中高关注物质的浓度超过0.1% (w/w) 和/或欧盟第1272/2008号CLP法规及其修订中设定的特殊浓度限值, 建议客户根据欧盟第1907/2006号REACH法规对有关高关注物质准备安全数据表(SDS)以符合供应链通信的义务, 如

-根据欧盟第1272/2008号CLP法规被列为有害物质。

-根据欧盟第1272/2008号CLP法规被列为有害混合物, 而当中物质的浓度大于或等于欧盟第1272/2008号CLP法规列出的浓度限值;或

-根据欧盟第1272/2008号CLP法规并未列为有害混合物, 但包含:

(a) 对人类健康或环境有害的物质, 而在固体或液体混合物 (即非气体混合物) 中其浓度 $\geq 1\%$  (w/w) 或在气体混合物中占体积 $\geq 0.2\%$ , 或

(b) PBT或vPvB物质, 在固体或液体混合物 (即非气体混合物) 中个别浓度 $\geq 0.1\%$  (w/w), 或

(c) 授权审议的高关注物质候选清单上的物质 (除上述以外的原因) 在个别非气体混合物中的浓度 $\geq 0.1\%$  (w/w), 或



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SGS-CSTC (Shanghai) Technical Services (Shanghai) Co., Ltd.  
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(d) 设有欧洲范围内工作场所接触限值的物质。

3. 如果样品中SVHC的测试结果超过报告限, 建议客户进一步定量分析检测含有SVHC的组分并且得到SVHC物质的准确浓度。

### 测试样品:

#### 测试样品描述:

样品 编号	SGS 样品ID	描述
SN1	SHA21-073926.001	复合材料组

### 测试方法:

SGS内部方法-SHTC-CHEM-SOP-97-T, SHTC-CHEM-SOP-302-T, 采用 ICP-OES、UV-VIS、GC-MS、HPLC-DAD/MS 和比色法分析。



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## 测试报告 (SVHC)

No. SHAEC2107392604

日期: 2021年05月11日 第4页,共19页

### 测试结果: (SVHC候选清单中的高关注物质)

批次	物质名称	CAS No.	001 浓度 (%)	RL (%)
-	所有测试的候选清单中的SVHC	-	ND	-

### 测试结果: (SVHC咨询清单中的高关注物质)

批次	物质名称	CAS No.	001 浓度 (%)	RL (%)
-	所有测试的咨询清单中的SVHC	-	ND	-



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日期: 2021年05月11日 第5页,共19页

### 注释:

- (1) 上表仅显示检出的SVHC, 低于RL的SVHC没有列出。所有测试的SVHC请参见附录。
  - (2) RL = 报告限 (当测试结果  $\geq$  RL时显示数据。RL不同于法规限值。)  
ND = 未检出 ( $<$  RL), ND针对SVHC物质。
  - (3) \* 测试结果是由选定的元素的结果并基于最坏的情况计算得出; \*\* 测试结果是由选定的标记物的结果并基于最坏的情况计算得出。详细信息请参见SGS REACH网站:  
<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>  
硼化合物的结果由ICP-OES测试的总硼 (液体, 粉末, 膏体类样品) 和水提取 (其他样品) 的硼元素结果换算得出。  
RL = 0.01% 是针对元素 (例如钴、砷、铅、铬 (VI)、铝、锆、硼、镱、锌、锑、钛、钡和镉), 除了钼的RL= 0.001%, 硼的RL=0.005%(仅对四氟硼酸铅、原硼酸钠盐), 铬 (VI)的RL= 0.005%(仅对氢氧化铬酸锌)。
  - (4) § 只有当物质包含米氏酮(CAS No.: 90-94-8)或米氏碱(CAS No.: 101-61-1)的浓度 $\geq$  0.1%(w / w)的情况下, 该物质才被提议定为SVHC。
  - (5) 基于客户要求等进行混合测试, 测试结果基于最小样品质量计算。
  - (6) 鉴于分析需求和样品量的限制, 仅对成品中足够测试的部件/材料进行筛分测试。
  - (7) / = 咨询清单中的高关注物质
- 除非另有说明, 此报告结果仅对测试的样品负责。本报告未经本公司书面许可, 不可部分复制。  
检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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## 附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
I	1	4,4'-二氨基二苯甲烷(MDA)	101-77-9	0.100
I	2	2,4,6-三硝基-5-叔丁基间二甲苯(二甲苯麝香)	81-15-2	0.100
I	3	C10-13 氯代烃(短链氯化石蜡)	85535-84-8	0.100
I	4	蒽	120-12-7	0.100
I	5	邻苯二甲酸丁苄酯(BBP)	85-68-7	0.100
I	6	邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	0.100
I	7	氧化双三丁基锡(TBTO)	56-35-9	0.100
I	8	二氯化钴*	7646-79-9	0.010
I	9	五氧化二砷*	1303-28-2	0.010
I	10	三氧化二砷*	1327-53-3	0.010
I	11	邻苯二甲酸二丁酯(DBP)	84-74-2	0.100
I	12	六溴环十二烷(HBCDD) 及其非对映异构体( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	-	0.100
I	13	砷酸氢铅*	7784-40-9	0.010
I	14	重铬酸钠*	7789-12-0, 10588-01-9	0.010
I	15	三乙基砷酸酯*	15606-95-8	0.010
II	16	2,4-二硝基甲苯	121-14-2	0.100
II	17	丙烯酰胺	79-06-1	0.100
II	18	蒽油**	90640-80-5	0.100
II	19	蒽油, 蒽糊**	90640-81-6	0.100
II	20	蒽油, 蒽糊, 蒽馏分**	91995-15-2	0.100



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附录

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批次	序号	物质名称	CAS No.	RL (%)
II	21	蒽油, 蒽糊, 轻油**	91995-17-4	0.100
II	22	蒽油, 含蒽量少**	90640-82-7	0.100
II	23	邻苯二甲酸二异丁酯	84-69-5	0.100
II	24	钼铬红(C.I.颜料红104)*	12656-85-8	0.010
II	25	铬酸铅*	7758-97-6	0.010
II	26	铅铬黄(C.I.颜料黄34)*	1344-37-2	0.010
II	27	沥青, 煤焦油, 高温**	65996-93-2	0.100
II	28	磷酸三(2-氯乙基)酯	115-96-8	0.100
III	29	重铬酸铵*	7789-09-5	0.010
III	30	硼酸*	-	0.010
III	31	无水四硼酸钠*	1303-96-4, 1330-43-4, 12179-04-3	0.010
III	32	铬酸钾*	7789-00-6	0.010
III	33	重铬酸钾*	7778-50-9	0.010
III	34	铬酸钠*	7775-11-3	0.010
III	35	水合硼酸钠*	12267-73-1	0.010
III	36	三氯乙烯	79-01-6	0.100
IV	37	乙二醇乙醚	110-80-5	0.100
IV	38	乙二醇单甲醚	109-86-4	0.100
IV	39	铬酸, 铬酸及重铬酸低聚物, 重铬酸*	-	0.010



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# 测试报告

No. SHAEC2107392604

日期: 2021年05月11日 第8页,共19页

## (SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
IV	40	三氧化铬*	1333-82-0	0.010
IV	41	碳酸钴*	513-79-1	0.010
IV	42	乙酸钴*	71-48-7	0.010
IV	43	硝酸钴*	10141-05-6	0.010
IV	44	硫酸钴*	10124-43-3	0.010
V	45	1,2,3-三氯丙烷	96-18-4	0.100
V	46	1,2-苯二酸-二(C6-8支链)烷基酯(富C7)	71888-89-6	0.100
V	47	1,2-苯二酸-二(C7-11支链与直链)烷基(醇)酯	68515-42-4	0.100
V	48	1-甲基-2-吡咯烷酮	872-50-4	0.100
V	49	乙二醇乙醚醋酸酯	111-15-9	0.100
V	50	联氨	7803-57-8, 302-01-2	0.100
V	51	铬酸铋*	7789-06-2	0.010
VI	52	1,2-二氯乙烷	107-06-2	0.100
VI	53	4,4'-二氨基-3,3'-二氯二苯甲烷	101-14-4	0.100
VI	54	2-甲氧基苯胺	90-04-0	0.100
VI	55	对特辛基苯酚	140-66-9	0.100
VI	56	硅酸铝耐火陶瓷纤维*	-	0.010
VI	57	砷酸*	7778-39-4	0.010
VI	58	二乙二醇二甲醚	111-96-6	0.100
VI	59	邻苯二甲酸二甲氧基乙酯	117-82-8	0.100



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# 测试报告

No. SHAEC2107392604

日期: 2021年05月11日 第9页,共19页

## (SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VI	60	砷酸钙*	7778-44-1	0.010
VI	61	铬酸铬*	24613-89-6	0.010
VI	62	甲醛与苯胺的低聚物	25214-70-4	0.100
VI	63	叠氮化铅*	13424-46-9	0.010
VI	64	苦味酸铅*	6477-64-1	0.010
VI	65	史蒂芬酸铅*	15245-44-0	0.010
VI	66	N,N-二甲基乙酰胺	127-19-5	0.100
VI	67	氢氧化铬酸锌*	49663-84-5	0.010
VI	68	酚酞	77-09-8	0.100
VI	69	氢氧化铬酸锌钾*	11103-86-9	0.010
VI	70	砷酸铅*	3687-31-8	0.010
VI	71	氧化锆硅酸铝耐火陶瓷纤维*	-	0.010
VII	72	C.I.碱性蓝26§	2580-56-5	0.100
VII	73	C.I.碱性紫3§	548-62-9	0.100
VII	74	三乙二醇二甲醚(TEGDME)	112-49-2	0.100
VII	75	乙二醇二甲醚(EGDME)	110-71-4	0.100
VII	76	4,4'-二(二甲氨基)二苯甲酮(米氏酮)	90-94-8	0.100
VII	77	4,4'-二(二甲氨基)-4"-氨基三苯甲醇§	561-41-1	0.100
VII	78	三氧化二硼*	1303-86-2	0.010
VII	79	甲酰胺	75-12-7	0.100
VII	80	甲基磺酸铅*	17570-76-2	0.010



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# 测试报告

No. SHAEC2107392604

日期: 2021年05月11日 第10页,共19页

## (SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VII	81	N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱)	101-61-1	0.100
VII	82	1,3,5-三(环氧乙基甲基)-1,3,5-三嗪-2,4,6-(1H, 3H,5H)-三酮(TGIC)	2451-62-9	0.100
VII	83	C.I.溶剂蓝4§	6786-83-0	0.100
VII	84	1,3,5-三-[(2S和2R)-2,3-环氧丙基]-1,3,5-三嗪-2,4,6-(1H, 3H, 5H)-三酮(β-TGIC)	59653-74-6	0.100
VIII	85	二盐基邻苯二甲酸铅*	69011-06-9	0.010
VIII	86	1,2-苯二酸-二(支链与直链)戊基酯	84777-06-0	0.100
VIII	87	乙二醇二乙醚	629-14-1	0.100
VIII	88	1-溴丙烷	106-94-5	0.100
VIII	89	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷	143860-04-2	0.100
VIII	90	对特辛基苯酚乙氧基醚	-	0.100
VIII	91	4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	0.100
VIII	92	4,4'-二氨基二苯醚及其盐	101-80-4	0.100
VIII	93	4-氨基偶氮苯	60-09-3	0.100
VIII	94	2,4-二氨基甲苯	95-80-7	0.100
VIII	95	4-壬基(支链与直链)苯酚	-	0.100
VIII	96	2-甲氧基-5-甲基苯胺	120-71-8	0.100
VIII	97	碱式乙酸铅*	51404-69-4	0.010
VIII	98	4-氨基联苯	92-67-1	0.100
VIII	99	十溴二苯醚(DecaBDE)	1163-19-5	0.100
VIII	100	环己烷-1,2-二羧酸酐,顺式-环己烷-1,2-二羧酸酐,反式-环己烷-1,2-二羧酸酐	-	0.100



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# 测试报告

No. SHAEC2107392604

日期: 2021年05月11日 第11页,共19页

## (SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VIII	101	偶氮二甲酰胺	123-77-3	0.100
VIII	102	二丁基二氯化锡(DBTC)	683-18-1	0.100
VIII	103	硫酸二乙酯	64-67-5	0.100
VIII	104	邻苯二甲酸二异戊酯	605-50-5	0.100
VIII	105	硫酸二甲酯	77-78-1	0.100
VIII	106	地乐酚	88-85-7	0.100
VIII	107	双(十八烷基)二氧化三铅*	12578-12-0	0.010
VIII	108	C16-18-脂肪酸铅*	91031-62-8	0.010
VIII	109	呋喃	110-00-9	0.100
VIII	110	全氟十一烷酸	2058-94-8	0.100
VIII	111	全氟十四烷酸	376-06-7	0.100
VIII	112	甲基六氢邻苯二甲酸酐,4-甲基六氢邻苯二甲酸酐,1-甲基六氢邻苯二甲酸酐,3-甲基六氢邻苯二甲酸酐	-	0.100
VIII	113	四氟硼酸铅*	13814-96-5	0.010
VIII	114	氨基氰铅盐*	20837-86-9	0.010
VIII	115	硝酸铅*	10099-74-8	0.010
VIII	116	一氧化铅*	1317-36-8	0.010
VIII	117	碱式硫酸铅*	12036-76-9	0.010
VIII	118	四氧化三铅*	1314-41-6	0.010
VIII	119	钛酸铅*	12060-00-3	0.010
VIII	120	钛酸铅铅*	12626-81-2	0.010



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# 测试报告

No. SHAEC2107392604

日期: 2021年05月11日 第12页,共19页

## (SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VIII	121	甲氧基乙酸	625-45-6	0.100
VIII	122	1,2-环氧丙烷	75-56-9	0.100
VIII	123	N,N-二甲基甲酰胺	68-12-2	0.100
VIII	124	N-甲基乙酰胺	79-16-3	0.100
VIII	125	邻苯二甲酸正戊基异戊基酯	776297-69-9	0.100
VIII	126	邻-氨基偶氮甲苯	97-56-3	0.100
VIII	127	2-氨基甲苯	95-53-4	0.100
VIII	128	全氟十三烷酸	72629-94-8	0.100
VIII	129	硫酸四氧化五铅*	12065-90-6	0.010
VIII	130	铅锑黄*	8012-00-8	0.010
VIII	131	掺杂铅的硅酸钡*	68784-75-8	0.010
VIII	132	硅酸铅*	11120-22-2	0.010
VIII	133	二碱式亚硫酸铅*	62229-08-7	0.010
VIII	134	四乙基铅*	78-00-2	0.010
VIII	135	硫酸三氧化四铅*	12202-17-4	0.010
VIII	136	全氟十二烷酸	307-55-1	0.100
VIII	137	碱式碳酸铅*	1319-46-6	0.010
VIII	138	二碱式亚磷酸铅*	12141-20-7	0.010
IX	139	4-壬基(支链与直链)苯酚乙氧基醚	-	0.100
IX	140	全氟辛酸铵(APFO)**	3825-26-1	0.100
IX	141	氧化镉*	1306-19-0	0.010



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# 测试报告

No. SHAEC2107392604

日期: 2021年05月11日 第13页,共19页

## (SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
IX	142	镉*	7440-43-9	0.010
IX	143	邻苯二甲酸二正戊酯(DPP)	131-18-0	0.100
IX	144	全氟辛酸(PFOA)	335-67-1	0.100
X	145	硫化镉*	1306-23-6	0.010
X	146	邻苯二甲酸二正己酯	84-75-3	0.100
X	147	C.I.直接红28	573-58-0	0.100
X	148	C.I.直接黑38	1937-37-7	0.100
X	149	2-巯基咪唑啉	96-45-7	0.100
X	150	乙酸铅*	301-04-2	0.010
X	151	磷酸三二甲苯酯	25155-23-1	0.100
XI	152	邻苯二甲酸二(支链与直链)己基酯	68515-50-4	0.100
XI	153	氯化镉*	10108-64-2	0.010
XI	154	水合过硼酸钠*	-	0.010
XI	155	过硼酸钠*	7632-04-4	0.010
XII	156	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚(UV-328)	25973-55-1	0.100
XII	157	2-苯并三唑-2-基-4,6-二叔丁基苯酚(UV-320)	3846-71-7	0.100
XII	158	二正辛基-双(2-乙基己基巯基乙酸酯)锡 (DOTE)	15571-58-1	0.100
XII	159	氟化镉 *	7790-79-6	0.010
XII	160	硫酸镉 *	10124-36-4,31119-53-6	0.010
XII	161	二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)和单辛基-三(2-乙基己基巯基乙酸酯)锡(MOTE)的反应物	-	0.100



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# 测试报告

No. SHAEC2107392604

日期: 2021年05月11日 第14页,共19页

## (SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
XIII	162	1,2-苯二甲酸, 二(C6-10)烷基酯 / 1,2-苯二甲酸, 混合二己二辛二癸酯, 其中邻苯二甲酸二己酯含量 $\geq 0.3\%$	-	0.100
XIII	163	5-二叔丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二叔丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合]	-	0.100
XIV	164	1,3-丙磺酸内酯	1120-71-4	0.100
XIV	165	2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚(UV-327)	3864-99-1	0.100
XIV	166	2-(2H-苯并三唑-2-基)-4-叔丁基-6-仲丁基苯酚 (UV-350)	36437-37-3	0.100
XIV	167	硝基苯	98-95-3	0.100
XIV	168	全氟壬酸及其钠盐和铵盐	-	0.100
XV	169	苯并(a)芘	50-32-8	0.100
XVI	170	4,4'-异亚丙基联苯酚 (双酚A)	80-05-7	0.100
XVI	171	4-庚基(支链与直链)苯酚	-	0.100
XVI	172	全氟癸酸 (PFDA) 及其钠盐和铵盐	-	0.100
XVI	173	对叔戊基苯酚	80-46-6	0.100
XVII	174	全氟己烷-1-磺酸及其盐	-	0.100
XVIII	175	双(六氯环戊二烯)环辛烷(包含任何顺式与反式同分异构体或其组合)	-	0.100
XVIII	176	苯并蒽(BaA)	56-55-3	0.100
XVIII	177	硝酸镉*	10325-94-7	0.010
XVIII	178	碳酸镉*	513-78-0	0.010
XVIII	179	氢氧化镉*	21041-95-2	0.010
XVIII	180	屈(CHR)	218-01-9	0.100



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# 测试报告

No. SHAEC2107392604

日期: 2021年05月11日 第15页,共19页

## (SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
XVIII	181	1,3,4-噻二唑-2,5-二硫酮、甲醛与支链和直链4-庚基苯酚的反应产物(RP-HP)[含有支链和直链4-庚基苯酚重量比≥0.1%]	-	0.100
XIX	182	1,2,4-苯三酸酐(偏苯三酸酐)(TMA)	552-30-7	0.100
XIX	183	苯并(g,h,i)芘(二萘嵌苯)(BPE)	191-24-2	0.100
XIX	184	十甲基环五硅氧烷(D5)	541-02-6	0.100
XIX	185	邻苯二甲酸二环己酯(DCHP)	84-61-7	0.100
XIX	186	氧化硼钠*	12008-41-2	0.010
XIX	187	十二甲基环六硅氧烷(D6)	540-97-6	0.100
XIX	188	乙二胺(EDA)	107-15-3	0.100
XIX	189	铅*	7439-92-1	0.010
XIX	190	八甲基环四硅氧烷(D4)	556-67-2	0.100
XIX	191	氢化三联苯	61788-32-7	0.100
XX	192	1,7,7-三甲基-3-(苯基亚甲基)双环[2.2.1]庚-2-酮 (3-亚苄基樟脑)	15087-24-8	0.100
XX	193	4,4'-(1,3-二甲基丁基)二苯酚(1,3-DMBBP)	6807-17-6	0.100
XX	194	苯并(k)荧蒽(BkF)	207-08-9	0.100
XX	195	荧蒽(FLT)	206-44-0	0.100
XX	196	菲(PHE)	85-01-8	0.100
XX	197	茚(PYR)	129-00-0	0.100
XXI	198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基卤化物(包括单体和组合)(HFPO-DA)	-	0.100
XXI	199	2-甲氧基乙基乙酸酯	110-49-6	0.100
XXI	200	4-叔丁基苯酚(PTBP)	98-54-4	0.100



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# 测试报告

No. SHAEC2107392604

日期: 2021年05月11日 第16页,共19页

## (SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
XXI	201	三(4-壬基苯基, 支链和直链)亚磷酸酯(TNPP)(含 $\geq 0.1\%$ 的支链和直链4-壬基苯酚)	-	0.100
XXII	202	2-苄基-2-二甲基氨基-4'-吗啉基苯基丁酮	119313-12-1	0.100
XXII	203	2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮	71868-10-5	0.100
XXII	204	邻苯二甲酸二异己酯	71850-09-4	0.100
XXII	205	全氟丁烷磺酸及其盐	-	0.100
XXIII	206	1-乙烯基咪唑	1072-63-5	0.100
XXIII	207	2-甲基咪唑	693-98-1	0.100
XXIII	208	对羟基苯甲酸丁酯	94-26-8	0.100
XXIII	209	双(乙酰丙酮基)二丁基锡**	22673-19-4	0.100
XXIV	210	四乙二醇二甲醚	143-24-8	0.100
XXIV	211	二月桂酸二辛基锡及任何其他二辛基锡双(脂肪酰氧基)衍生物**	-	0.100
/	212	1,4-二氧六环	123-91-1	0.100
/	213	二溴新戊二醇(BMP) 三溴新戊醇(TBNPA) 2,3-二溴-1-丙醇(2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	0.100
/	214	铃兰醛及其立体异构体	-	0.100
/	215	双酚B	77-40-7	0.100
/	216	戊二醛	111-30-8	0.100
/	217	中链氯化石蜡(MCCP)	-	0.100
/	218	原硼酸钠盐*	13840-56-7	0.010
/	219	对十二烷基苯酚及其异构体(PDDP)	-	0.100



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## 测试报告 (SVHC)

No. SHAEC2107392604

日期: 2021年05月11日 第17页,共19页

SGS 样品 ID	照片序号	材料描述
001	P1	银色金属
001	P2	黑色PCB
001	P3	黑色IC
001	P4	黑色IC

### 附件

ESP32-WROVER, ESP32-WROVER(IPEX), ESP32-WROOM-32D(ESP-WROOM-32D),ESP32-WROOM-32U,ESP32-WROOM-32DC,ESP32-WROOM-32UC,ESP32-SOLO-1,ESP32-SOLO-1C,ESP32-WROOM-32(ESP-WROOM-32), ESP32-WROVER-B,ESP32-WROVER-IB,ESP32-WROVER-E,ESP32-WROVER-IE,ESP32-WROOM-32E,ESP32-WROOM-32UE,ESP32-WROOM-32SE,ESP32-MINI-PICO-02,ESP32-MINI-PICO-02U,ESP32-MINI-1,ESP32-MINI-1U, ESP32-C3-MINI-1,ESP32-C3-MINI-1U, ESP32-C3-WROOM-02,ESP32-C3-WROOM-02U, ESP32-S2-WROOM、ESP32-S2-WROOM-I、ESP32-S2-WROVER、ESP32-S2-WROVER-I、ESP32-S2-SOLO、ESP32-S2-SOLO-U、SP32-S2-MINI-1,ESP32-S2-MINI-1U,ESP32-PICO-V3-ZERO, ESP32-JCI-R,EK057,ESP32-DU1906,ESP32-DU1906-U,ESP32-JY-CAM,ESP32-WATG-32D,ESP-GR(XD),ESP32-GR,RIGEL (W1261889/W1261888), ESP32-SIG1711P8、ESP32-SIG149、ESP-SIG1711P8,ESP-SIG149,ESP32-for-Haier,ESP32-C3-WIZ2012,E235, ESP8685-WROOM-01, ESP8685-WROOM-03, ESP8685-WROOM-04, ESP8685-WROOM-05, ESP32-S3-WROOM-1, ESP32-S3-WROOM-1U, ESP32-S3-MINI-1, ESP32-S3-MINI-1U, ESP32-S3-WROOM-2, ESP32-S3-WROOM-2U, ESP32-Galanz21



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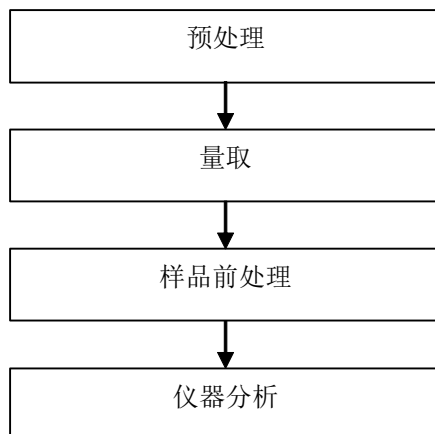
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## SVHC 测试流程图

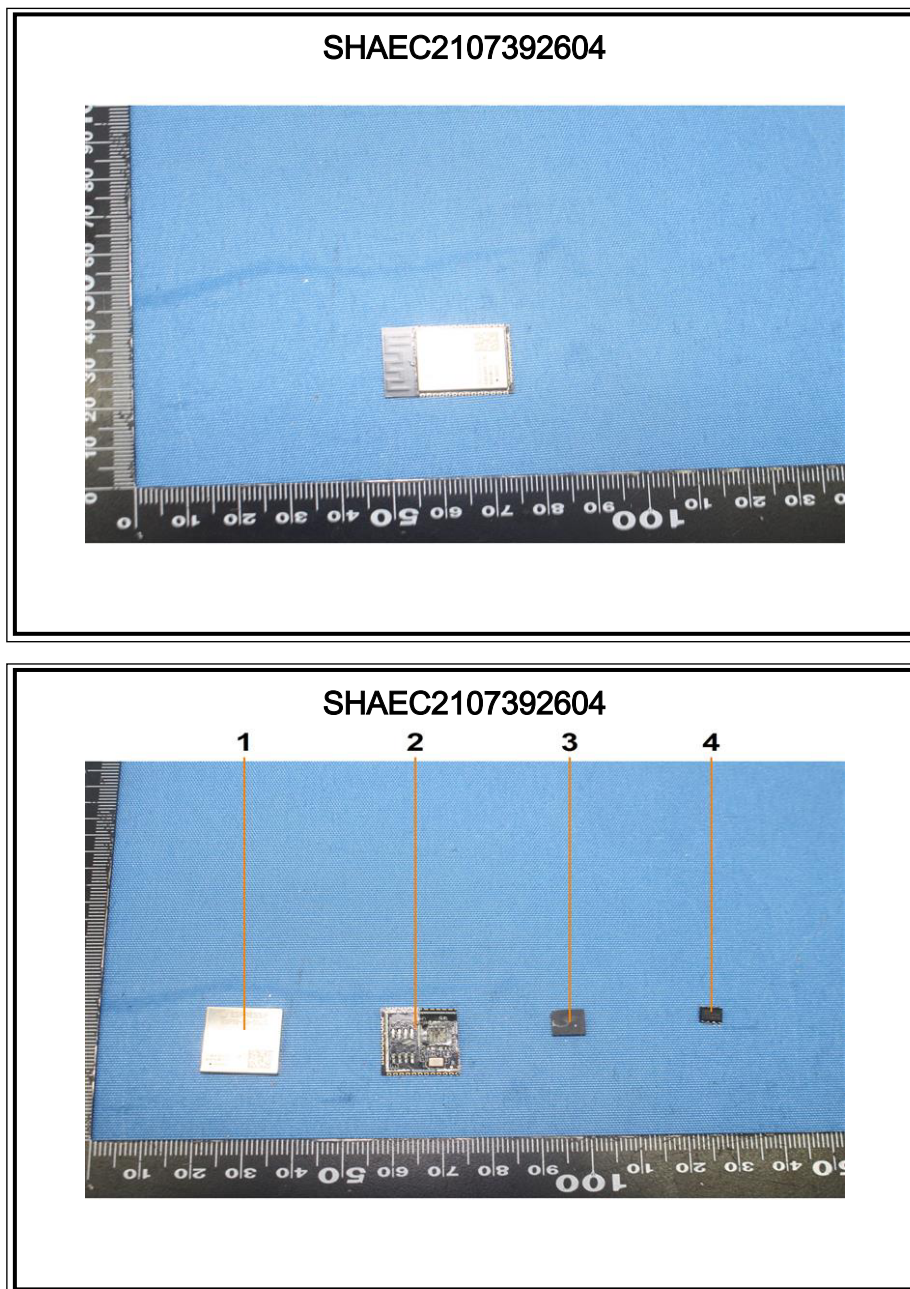


## 测试报告 (SVHC)

No. SHAEC2107392604

日期: 2021年05月11日 第19页,共19页

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