

深圳市八六三新材料技术有限责任公司
Shenzhen 863 New Material and Technology Co., Ltd

分析检测报告

Test Report

报告编号(Report No.): SAC2020-06745-32

日期(Date): 2020/10/29

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客户名称: 深圳市瑞丰光电子股份有限公司
Customer: SHENZHEN REFOND OPTOELECTRONICS CO.,LTD
地址: 深圳市光明新区公明办事处田寮社区第十工业区 1 栋六楼
Address: 6th Floor, Building #1, 10th Industrial Zone, Tian Liao Community, Gong Ming Area, Guang Ming New District, Shenzhen, China

样品信息(Sample Information)

样品名称(Sample Name): SMD-LED(PCT2835)
样品描述(Sample Description): 黄色 LED(Yellow LED)
样品型号(Model/P.O. No.): SMD-LED(PCT2835)
样品批号(Item/Lot No.): /
样品材质(Material): /
客户/买家(Buyer): /
供应商(Supplier): /
制造商(Manufacturer): /
接样日期(Received Date): 2020/10/26
测试周期(Test Period): 2020/10/26~2020/10/29
测试要求: 根据客户要求, 参照法规(EC) No 1907/2006(REACH), 对所提交的样品进行 209 种高关注物质(SVHC)测试(As specified by customer, refer to EU Regulation (EC) No 1907/2006 (REACH), to determine the 209 kinds of substances of very high concern (SVHC) in the submitted sample.)
Test Requested

测试方法(Test Method) 请参见后续页(Please refer to the following pages.)

测试结果(Test Results) 请参见后续页(Please refer to the following pages.)

法规要求(Regulation Request) 请参见后续页(Please refer to the following pages.)

测试结论(Test Conclusion): 根据客户的要求进行检测, 本报告检测样品中 209 种 SVHC 物质的浓度均小于 0.1%(w/w)(According to the customer's requirements, the concentration of the 209 kinds of substances of very high concern (SVHC) in the submitted sample is less than 0.1%(w/w).)

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(Audited by):

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(Approved by):



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法规要求
(Regulation Request)

依照法规(EC) No 1907/2006 (REACH)的要求, 当物品中高关注物质(SVHC)浓度大于 0.1% (w/w)时, 在物品接受方或消费者请求物质安全使用信息时, 物品的提供方必须在请求提出 45 天内, 提供包括至少物质名称在内的可获取的物质安全使用信息(Under REACH Regulation(EC) No 1907/2006, suppliers of articles which contain SVHC in a concentration above 0.1%(w/w) have to provide sufficient information, to articles recipients, to a consumer within 45 days of the receipt of the request. This information must ensure safe use of the article and as minimum contain the name of the substance.)

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测试结果(Test Result(s)):

序号 (No.)	检测项目(Test Items)	CAS No.	测试方法 (Test Methods)	测试仪器 (Equipment)	结果 (Results) (%)	MDL (%)
1	蒽(Anthracene)	120-12-7	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01
2	二甲苯麝香 (5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene))	81-15-2		GC-MS	N.D.	0.01
3	短链氯化石蜡(Short Chain Chlorinated Paraffines(SCCPs))	85535-84-8		GC-MS	N.D.	0.01
4	2,4-二硝基甲苯(2,4-Dinitrotoluene)	121-14-2		GC-MS	N.D.	0.01
5	蒽油(Anthracene oil)	90640-80-5		GC-MS	N.D.	0.01
6	蒽油, 蒽糊, 轻油(Anthracene oil, anthracene paste, distn. Lights)	91995-17-4		GC-MS	N.D.	0.01
7	蒽油, 蒽糊, 蒽馏分(Anthracene oil, anthracene paste, anthracene fraction)	91995-15-2		GC-MS	N.D.	0.01
8	蒽油, 含蒽量少(Anthracene oil, anthracene-low)	90640-82-7		GC-MS	N.D.	0.01
9	蒽油, 蒽糊(Anthracene oil, anthracene paste)	90640-81-6		GC-MS	N.D.	0.01
10	煤焦油沥青, 高温(Pitch, coal tar, high-temp.)	65996-93-2		GC-MS	N.D.	0.01
11	磷酸三(2-氯乙基)酯(Tris(2-chloroethyl) phosphate)	115-96-8		GC-MS	N.D.	0.01
12	2-甲氧基乙醇(2-Methoxyethanol)	109-86-4		GC-MS	N.D.	0.01
13	2-乙氧基乙醇(2-Ethoxyethanol)	110-80-5		GC-MS	N.D.	0.01
14	1,2-苯二酸二(C7-11 支链与直链)烷基 (醇)酯(1,2-Benzendicarboxylic acid, di-(C7-11)-branched and linear alkyl esters)	68515-42-4		GC-MS	N.D.	0.01

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15	联氨(Hydrazine; Hydrazine base; Diamine; Hydrazine anhydrous)	7803-57-8 302-01-2	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01	
16	1-甲基-2-吡咯烷酮 (1-Methyl-2-pyrrolidone)	872-50-4		GC-MS	N.D.	0.01	
17	1,2,3-三氯丙烷(1,2,3-Trichloropropane)	96-18-4		GC-MS	N.D.	0.01	
18	1,2-苯二酸二(C6-8 支链)烷基酯(富 C7)(1,2-Benzenedicarboxylic acid, di-(C6-8)-branched and linear alkyl esters)	71888-89-6		GC-MS	N.D.	0.01	
19	三氯乙烯(Trichloroethylene)	79-01-6		GC-MS	N.D.	0.01	
20	乙二醇醚醋酸酯 (4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol))	111-15-9		GC-MS	N.D.	0.01	
21	4,4'-二氨基二苯甲烷 (4,4'-Diaminodiphenylmethane)	101-77-9		ISO 17234-1:2015	GC-MS	N.D.	0.01
22	邻苯二甲酸二丁酯(DBP)(Dibutyl phthalate(DBP))	84-74-2		US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
23	邻苯二甲酸二(2-乙基己基)酯 (DEHP)(Bis(2-ethyl(hexyl) phthalate)(DEHP))	117-81-7		GC-MS	N.D.	0.01	
24	邻苯二甲酸二异丁酯 (DIBP)(Diisobutyl Phthalate (DIBP))	84-69-5		US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
25	邻苯二甲酸丁苄酯(BBP)(Benzyl butyl phthalate (BBP))	85-68-7	GC-MS	N.D.	0.01		
26	六溴环十二烷 (HBCDD)(Hexabromocyclododecane)	25637-99-4	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01	

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27	对特辛基苯酚 (4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol))	140-66-9	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01
28	1,2-二氯乙烷(1,2-Dichloroethane)	107-06-2		GC-MS	N.D.	0.01
29	二乙二醇二甲醚(Bis(2-methoxyethyl) ether)	111-96-6		GC-MS	N.D.	0.01
30	N,N-二甲基乙酰胺 (N,N-dimethylacetamide)	127-19-5		GC-MS	N.D.	0.01
31	酚酞(Phenolphthalein)	77-09-8		GC-MS	N.D.	0.01
32	4,4'-亚甲基双-2-氯苯胺 (2,2'-dichloro-4,4'-methylenedianiline (MOCA))	101-14-4		GC-MS	N.D.	0.01
33	甲醛苯胺共聚物(Formaldehyde, oligomeric reaction products with aniline)	25214-70-4		GC-MS	N.D.	0.01
34	邻苯二甲酸二甲氧乙酯 (Bis(2-methoxyethyl) phthalate(DMEP))	117-82-8		GC-MS	N.D.	0.01
35	邻氨基苯甲醚(2-Methoxyaniline; o-Anisidine)	90-04-0		GC-MS	N.D.	0.01
36	三丁基氧化锡(TBTO)(Bis(tributyltin) oxide(TBTO))	56-35-9		ISO 17353:2004	GC-MS	N.D.
37	丙烯酰胺(Acrylamide)	79-06-1	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
38	砷酸氢铅(Lead hydrogen arsenate)	7784-40-9	US EPA 3052:1996	ICP-OES	N.D.	0.01
39	三乙基砷酸酯(Triethyl arsenate)	15606-95-8	US EPA 6010D:2018	ICP-OES	N.D.	0.01
40	五氧化二砷(Diarsenic pentaoxide)	1303-28-2	US EPA 3052:1996	ICP-OES	N.D.	0.01
41	三氧化二砷(Diarsenic trioxide)	1327-53-3	US EPA 6010D:2018	ICP-OES	N.D.	0.01

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42	二氯化钴(Cobalt dichloride)	7646-79-9	US EPA 3052:1996 EN 14582:2016	ICP-OES IC	N.D.	0.01
43	重铬酸钠(Sodium dichromate)	7789-12-0	US EPA 3052:1996 US EPA 3060A:1996	ICP-OES UV-vis	N.D.	0.01
44	铬黄(Lead chromate)	7758-97-6	US EPA 3052:1996 US EPA 3060A:1996 US EPA 6010D:2018	ICP-OES UV-vis	N.D.	0.01
45	钼铬红(Lead chromate molybdate sulfate red)	12656-85-8		ICP-OES UV-vis	N.D.	0.01
46	铬酸铬(Dichromium tris(chromate))	24613-89-6		ICP-OES UV-vis	N.D.	0.01
47	氢氧化铬酸锌钾(Potassium hydroxyoctaoxodizincatedi-chromate)	11103-86-9	US EPA 3052:1996 US EPA 3060A:1996 US EPA 6010D:2018	ICP-OES UV-vis	N.D.	0.01
48	铬酸铅(Lead chromate)	1344-37-2		ICP-OES	N.D.	0.01
49	硅酸铝耐火陶瓷纤维(Aluminosilicate, Refractory Ceramic Fibres)	/		ICP-OES	N.D.	0.01
50	氧化锆硅酸铝耐火陶瓷纤维(Zirconia Aluminosilicate, Refractory Ceramic Fibres)	/		ICP-OES	N.D.	0.01
51	锌黄(C.I.颜料黄 36)(Pentazinc chromate octahydroxide)	49663-84-5	US EPA 3052:1996 US EPA 6010D:2018	ICP-OES	N.D.	0.01
52	叠氮化铅(Lead azide Lead diazide)	13424-46-9		ICP-OES	N.D.	0.01
53	2,4,6-三硝基苯二酚铅(Lead styphnate)	15245-44-0		ICP-OES	N.D.	0.01
54	苦味酸铅(Lead dipicrate)	6477-64-1		ICP-OES	N.D.	0.01
55	砷酸(Arsenic acid)	7778-39-4		ICP-OES	N.D.	0.01
56	砷酸钙(Calcium arsenate)	7778-44-1		ICP-OES	N.D.	0.01
57	砷酸铅(Trilead diarsenate)	3687-31-8		ICP-OES	N.D.	0.01

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58	硼酸(Boric acid)	10043-35-3 11113-50-1		ICP-OES	N.D.	0.01
59	四硼酸钠(Disodium tetraborate, anhydrous, Heptahydrate, Decahydrate)	1330-43-4 12179-04-3 1303-96-4	US EPA 3052:1996 US EPA 6010D:2018	ICP-OES	N.D.	0.01
60	水合硼酸钠(Tetraboron disodium heptaoxide, hydrate)	12267-73-1		ICP-OES	N.D.	0.01
61	铬酸钠(Sodium chromate)	7775-11-3		ICP-OES UV-vis	N.D.	0.01
62	铬酸钾(Potassium chromate)	7789-00-6	US EPA 3052:1996 US EPA 3060A:1996	ICP-OES UV-vis	N.D.	0.01
63	重铬酸钾(Potassium dichromate)	7778-50-9		ICP-OES UV-vis	N.D.	0.01
64	三氧化铬(Chromium trioxide)	1333-82-0		ICP-OES	N.D.	0.01
65	重铬酸铵(Ammonium dichromate)	7789-09-5	US EPA 3052:1996 US EPA 3060A:1996 EN 14582:2016	ICP-OES UV-vis IC	N.D.	0.01
66	醋酸钴(Cobalt(II) diacetate)	71-48-7		ICP-OES IC	N.D.	0.01
67	碳酸钴(Cobalt(II) carbonate)	513-79-1	US EPA 3052:1996 EN 14582:2016	ICP-OES IC	N.D.	0.01
68	硝酸钴(Cobalt(II) Dinitrate)	10141-05-6		ICP-OES IC	N.D.	0.01
69	硫酸钴(Cobalt(II) sulphate)	10124-43-3	US EPA 3052:1996 EN 14582:2016	ICP-OES IC	N.D.	0.01
70	三氧化铬及其低聚物产生的酸 (Chromic acid, Dichromic acid, Oligomers of chromic acid and Dichromic acid)	7738-94-5 13530-68-2	US EPA 3052:1996 US EPA 6010D:2018 US EPA 3060A:1996	ICP-OES UV-vis	N.D.	0.01

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71	铬酸锶(Strontium chromate)	7789-06-2	US EPA 3052:1996 US EPA 6010D:2018 US EPA 3060A:1996	ICP-OES UV-vis	N.D.	0.01
72	三氧化二硼(Diboron trioxide)	1303-86-2	US EPA 3052:1996 US EPA 6010D:2018	ICP-OES	N.D.	0.01
73	甲磺酸铅(II)(Lead(II) bis(methanesulfonate))	17570-76-2		ICP-OES	N.D.	0.01
74	三乙二醇二甲基醚 (1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme))	112-49-2	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01
75	1,2-二甲氧基乙烷 (1,2-dimethoxyethane)	110-71-4		GC-MS	N.D.	0.01
76	甲酰胺(Formamide)	75-12-7		GC-MS	N.D.	0.01
77	异氰脲酸三缩水甘油酯 (TGIC(1,3,5-tris(oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H,5H)-trione))	2451-62-9		GC-MS	N.D.	0.01
78	替罗昔隆(β -TGIC(1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine -2,4,6-(1H,3H,5H)-trione))	59653-74-6	GC-MS	N.D.	0.01	
79	4,4'-双(二甲氨基)二苯酮 (4,4'-bis(dimethylamino)benzophenone (Michler's ketone))	90-94-8	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01
80	4,4'-亚甲基双(N,N-二甲基苯 胺)(N,N,N',N'-tetramethyl-4,4'- methylenedianiline (Michler's base))	101-61-1		GC-MS	N.D.	0.01
81	α,α -二[(二甲氨基)苯基]-4-甲氨基苯甲 醇(4,4'-bis(dimethylamino)-4'- (methylamino)trityl alcohol)	561-41-1		GC-MS	N.D.	0.01

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82	龙胆紫,碱性紫-3; 结晶紫 (4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3))	548-62-9		HPLC	N.D.	0.01
83	维多利亚兰([4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl]methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26))	2580-56-5	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
84	溶剂兰-4(α,α -Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4))	6786-83-0		HPLC	N.D.	0.01
85	2,4-二氨基甲苯 (4-methyl-m-phenylenediamine (2,4-toluene-diamine))	95-80-7		GC-MS	N.D.	0.01
86	4-氨基联苯(Biphenyl-4-ylamine)	92-67-1	ISO 17234-1:2015	GC-MS	N.D.	0.01
87	4,4'-二氨基-3,3'-二甲基二苯甲烷 (4,4'-methylenedi-o-toluidine)	838-88-0		GC-MS	N.D.	0.01
88	邻甲基苯胺(o-Toluidine; 2-Aminotoluene)	95-53-4		GC-MS	N.D.	0.01
89	邻氨基偶氮甲苯(o-aminoazotoluene)	97-56-3		GC-MS	N.D.	0.01
90	对氨基偶氮苯(4-Aminoazobenzene)	60-09-3	ISO 17234-1:2015	GC-MS	N.D.	0.01
91	4,4'-二氨基二苯醚(4,4'-oxydianiline and its salts)	101-80-4		GC-MS	N.D.	0.01
92	2-甲氧基-5-甲基苯胺 (6-methoxy-m-toluidine (p-cresidine))	120-71-8		GC-MS	N.D.	0.01
93	二丁基锡(DBT)(Dibutyltin dichloride (DBT))	683-18-1	ISO 17353:2004	GC-MS	N.D.	0.01

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94	偶氮二甲酰胺 (Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)))	123-77-3		GC-MS	N.D.	0.01
95	3-乙基-2-甲基-2-(3-甲基丁基)噁唑烷 (3-ethyl-2-methyl-2-(3-methylbutyl) -1,3-oxazolidine)	143860-04-2	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01
96	N-甲基乙酰胺(N-methylacetamide)	79-16-3		GC-MS	N.D.	0.01
97	地乐酚(Dinoseb)	88-85-7		GC-MS	N.D.	0.01
98	硫酸二甲酯(Dimethyl sulphate)	77-78-1		GC-MS	N.D.	0.01
99	呋喃(Furan)	110-00-9		GC-MS	N.D.	0.01
100	颜料黄 41(Pyrochlore, antimony lead yellow)	8012-00-8	US EPA 3052:1996 US EPA 6010D:2018	ICP-OES	N.D.	0.01
101	硫酸二乙酯(Diethyl sulphate)	64-67-5		GC-MS	N.D.	0.01
102	环氧丙烷(1,2-epoxypropane)	75-56-9		GC-MS	N.D.	0.01
103	溴代正丙烷(1-bromopropane)	106-94-5		GC-MS	N.D.	0.01
104	十溴联苯醚(Bis(pentabromophenyl) ether (DecaBDE))	1163-19-5		GC-MS	N.D.	0.01
105	分支或线性的壬基酚, 含有线性或分支、共价绑定苯酚的 9 个碳烷基链的物质, 包括 UVCB 物质以及任何含有独立或组合的界定明确的同分异构体的物质(4-Nonylphenol, branched and linear -substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof)	—	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01

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106	辛基酚聚醚-9, 包括界定明确的物质以及 UVCB 物质、聚合物和同系物 (4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues)	—	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01
107	乙二醇二乙醚(1,2-Diethoxyethane)	629-14-1		GC-MS	N.D.	0.01
108	六氢邻苯二甲酸酐 (Cyclohexane-1,2-dicarboxylic anhydride(Hexahydrophthalic anhydride - HHPA))	85-42-7		GC-MS	N.D.	0.01
109	甲基六氢苯酐、4-甲基六氢苯酐、甲基六氢化邻苯二甲酸酐、3-甲基六氢苯二甲酯酐(Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride)	25550-51-0 19438-60-9 48122-14-1 57110-29-9	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01
110	支链和直链 1, 2-苯二羧二戊酯 (1,2-Benzenedicarboxylic acid, dipentylester, branched and linear)	84777-06-0		GC-MS	N.D.	0.01
111	邻苯二甲酸正戊基异戊基酯 (N-pentyl-isopentylphthalate)	776297-69-9		GC-MS	N.D.	0.01
112	甲氧基乙酸(Methoxy acetic acid)	625-45-6		GC-MS	N.D.	0.01
113	邻苯二甲酸二异戊酯 (Diisopentylphthalate)	605-50-5		GC-MS	N.D.	0.01

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114	N,N-二甲基甲酰胺 (N,N-dimethylformamide; dimethyl formamide)	68-12-2	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01
115	全氟代十四酸 (Heptacosafuorotetradecanoic acid)	376-06-7		HPLC	N.D.	0.01
116	全氟十三酸(Pentacosafuorotridecanoic acid)	72629-94-8	US EPA 3550C:2007	HPLC	N.D.	0.01
117	全氟十一烷酸 (Henicosafuoroundecanoic acid)	2058-94-8	US EPA 8321B:2007	HPLC	N.D.	0.01
118	全氟十二烷酸(Tricosafuorododecanoic acid)	307-55-1		HPLC	N.D.	0.01
119	氧化铅与硫酸铅的复合物(Pentalead tetraoxide sulphate)	12065-90-6		ICP-OES	N.D.	0.01
120	硝酸铅(Lead dinitrate)	10099-74-8		ICP-OES	N.D.	0.01
121	三碱式硫酸铅(Tetralead trioxide sulphate)	12202-17-4		ICP-OES	N.D.	0.01
122	氧化铅(Lead oxide (lead monoxide))	1317-36-8		ICP-OES	N.D.	0.01
123	钛酸铅(Lead titanium trioxide)	12060-00-3		ICP-OES	N.D.	0.01
124	双(十八酸基)二氧化三铅 (Dioxobis(stearato)trilead)	12578-12-0	US EPA 3052:1996 US EPA 6010D:2018	ICP-OES	N.D.	0.01
125	碱式乙酸铅(Acetic acid, lead salt, basic)	51404-69-4		ICP-OES	N.D.	0.01
126	四乙基铅(Tetraethyllead)	78-00-2		ICP-OES	N.D.	0.01
127	二盐基邻苯二甲酸铅 ([Phthalato(2-)]dioxotrilead)	69011-06-9		ICP-OES	N.D.	0.01
128	氨基氰铅盐(Lead cynamidate)	20837-86-9		ICP-OES	N.D.	0.01
129	掺杂铅的硅酸钡(Silicic acid, barium salt, lead-doped)	68784-75-8		ICP-OES	N.D.	0.01

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130	磷酸氧化铅(Trilead dioxide phosphonate)	12141-20-7	US EPA 3052:1996 US EPA 6010D:2018	ICP-OES	N.D.	0.01	
131	钛酸铅锆(Lead Titanium Zirconium Oxide)	12626-81-2		ICP-OES	N.D.	0.01	
132	碱式碳酸铅(Basic lead carbonate (trilead bis(carbonate)dihydroxide))	1319-46-6		ICP-OES	N.D.	0.01	
133	C16-18-脂肪酸铅盐(Fatty acids, C16-18, lead salts)	91031-62-8		ICP-OES	N.D.	0.01	
134	四氧化三铅(Lead tetroxide (orange lead))	1314-41-6		ICP-OES	N.D.	0.01	
135	亚硫酸铅(II) (Sulfurous acid, lead salt, dibasic)	62229-08-7		US EPA 3052:1996	ICP-OES	N.D.	0.01
136	碱式硫酸铅(Lead oxide sulphate)	12036-76-9		US EPA 6010D:2018	ICP-OES	N.D.	0.01
137	氟硼酸铅(Lead bis(tetrafluoroborate))	13814-96-5		ICP-OES	N.D.	0.01	
138	硅酸铅(Silicic acid, lead salt)	11120-22-2		ICP-OES	N.D.	0.01	
139	镉(Cadmium)	7440-43-9		ICP-OES	N.D.	0.01	
140	氧化镉(Cadmium oxide)	1306-19-0		ICP-OES	N.D.	0.01	
141	邻苯二甲酸二正戊酯(DPP)(Dipentyl phthalate(DPP))	131-18-0		US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
142	十五代氟辛酸铵盐 (APFO)(Ammonium pentadecafluorooctanoate(APFO))	3825-26-1		US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
143	全氟辛酸 (PFOA)(Pentadecafluorooctanoic acid(PFOA))	335-67-1			HPLC	N.D.	0.01
144	乙氧基化的支链和直链的 4-壬基酚 (4-Nonylphenol branched and linear,ethoxylated)	—	HPLC		N.D.	0.01	

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145	硫化镉(Cadmium sulphide)	1306-23-6	US EPA3052:1996	ICP-OES	N.D.	0.01
146	醋酸铅(Lead di(acetate))	301-04-2	US EPA6010D:2018	ICP-OES	N.D.	0.01
147	C.I.直接红 28(Disodium3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28))	573-58-0	US EPA 3550C:2007	HPLC	N.D.	0.01
148	C.I.直接黑 38(Disodium4-amino-3'-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38))	1937-37-7	US EPA 8321B:2007	HPLC	N.D.	0.01
149	亚乙基硫脲(Imidazolidine-2-thione; 2-imidazoline-2-thiol)	96-45-7		GC-MS	N.D.	0.01
150	磷酸三二甲苯酚(Trixylyl phosphate)	25155-23-1	US EPA 3540C:1996	GC-MS	N.D.	0.01
151	邻苯二甲酸二己酯(Dihexyl phthalate)	84-75-3	US EPA 8270E:2018	GC-MS	N.D.	0.01
152	邻苯二甲酸二庚酯(支链和直链)(1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear)	68515-50-4		GC-MS	N.D.	0.01
153	氯化镉(Cadmium chloride)	10108-64-2		ICP-OES	N.D.	0.01
154	过硼酸钠(Sodium peroxometaborate)	7632-04-4	US EPA 3052:1996	ICP-OES	N.D.	0.01
155	过硼酸钠水合物(Sodium perborate; perboric acid, sodium salt)	—	US EPA 6010D:2018	ICP-OES	N.D.	0.01
156	2-(2'-羟基-3',5'-二叔戊基苯基)苯并三唑(UV-328)(UV-320)2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328))	25973-55-1	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
157	2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑(2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320))	3846-71-7	US EPA 3550C:2007 US EPA 8321B:200	HPLC	N.D.	0.01

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158	二正辛基-双(巯乙酸 2-乙基己酯)锡 (DOTE)(2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5- dithia-4-stannatetra decanoate (DOTE))	15571-58-1	US EPA3540C:1996 US EPA8270E:2018	GC-MS	N.D.	0.01
159	氟化镉(Cadmium fluoride)	7790-79-6	US EPA 3052:1996	ICP-OES	N.D.	0.01
160	硫酸镉(Cadmium sulphate)	10124-34-6; 31119-53-6	US EPA 6010D:2018	ICP-OES	N.D.	0.01
161	二正辛基-双(巯乙酸 2-乙基己酯)锡 (DOTE)和三(2-乙基己基巯基乙酸) 辛锡 (MOTE)反应物 (Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5- dithia-4-stannatetra decanoate and 2- ethylhexyl 10-ethyl-4- [[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio] -4-octyl-7-oxo-8-oxa-3,5-dithia-4- stannate tradecanoate (reaction mass of DOTE and MOTe))	—	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
162	1, 2-苯二羧酸, 二-碳 6-10 烷基酯((癸 基、己基、辛基)酯与≥0.3%二己苯二甲 酸与 1,2-苯二甲酸的复合物 (1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate)	68515-51-5 68648-93-1	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01

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163	5-仲丁基-丁基-2 (2, 4-二甲基环己胺-3-乙二胺-1-基) -5-甲基-1, 3-二氧乙烷[1], 5-仲丁基-丁基-2 (4, 6-二甲基环己胺-3-乙二胺-1-基) -5-甲基-1, 3-二氧乙烷[2] (这两种物质的异构体以及它们的混合物) (5-sec-butyl-2-(2,4-dimethyl cyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethyl cyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof])	—	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
164	1,3-丙烷磺内酯(1,3-propanesultone)	1120-71-4	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
165	2,4-二叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚(UV-327)(2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327))	3864-99-1	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
166	2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑 (UV-350)(2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350))	36437-37-3	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01

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167	硝基苯(Nitrobenzene)	98-95-3	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
168	全氟壬酸及其钠和铵盐 (Perfluorononan-1-oic-acid and its sodium and ammonium salts)	375-95-1 21049-39-8 4149-60-4	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
169	苯并(a)芘(Benzo[def]chrysene)	50-32-8	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
170	4,4'-异亚丙基联苯酚(双酚 A) (Bisphenol A)	80-05-7	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
171	全氟癸酸(PFDA)及其钠盐和铵盐 (Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts)	3108-42-7 335-76-2 3830-45-3	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
172	4-庚基(支链与直链)苯酚 (4-HPbl)(4-heptyl-phenol)	—	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
173	对叔戊基苯酚(PTAP)(P-tert-amyl phenol (PTAP))	80-46-6	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
174	全氟己烷磺酸及其盐 (PFHxS)(Perfluorohexane sulfonate(PFHxS))	—	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
175	德克隆[包括所有反式和顺式异构体及 其组合](Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof))	13560-89-9 135821-74-8 135821-03-3	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
176	苯并[a]蒽(Benz[a]anthracene)	56-55-3	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01

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177	硝酸镉(Cadmium nitrate)	10325-94-7	US EPA3052:1996 US EPA6010D:2018	ICP-OES	N.D.	0.01
178	碳酸镉(Cadmium carbonate)	513-78-0		ICP-OES	N.D.	0.01
179	氢氧化镉(Cadmium hydroxide)	21041-95-2		ICP-OES	N.D.	0.01
180	屈(Chrysene)	218-01-9	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
181	1,3,4-噻二唑烷-2,5-二硫酮, 甲醛和 4-庚基苯酚的支链和直链 (RP-HP) 的反应产物[4-庚基苯酚, 支链和直链含量 ≥0.1%w/w](Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear])	—	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
182	苯-1,2,4-三羧酸-1,2-酐 (偏苯三酸酐) (TMA)(1,2,4-Benzenetricarboxylic anhydride)	552-30-7	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
183	苯并[G,H,I]花(Benzo[ghi]perylene)	191-24-2	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
184	十甲基环戊硅氧烷 (D5)(Decamethylcyclopentasiloxane)	541-02-6		GC-MS	N.D.	0.01
185	邻苯二甲酸二环己酯 (DCHP)(dicyclohexyl phthalate)	84-61-7		GC-MS	N.D.	0.01
186	八硼酸二钠(disodium octaborate)	12008-41-2	US EPA3052:1996 US EPA6010D:2018	ICP-OES	N.D.	0.01
187	十二甲基环己硅氧烷 (D6)(Dodecamethylcyclohexasiloxane)	540-97-6	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01

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188	乙二胺(EDA)(Ethylenediamine)	107-15-3	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
189	铅(Lead)	7439-92-1	US EPA3052:1996 US EPA6010D:2018	ICP-OES	N.D.	0.01
190	八甲基环四硅氧烷(D4)(Octamethyl cyclotetrasiloxane)	556-67-2	US EPA 3540C:1996 US EPA 8270E:2018	GC-MS	N.D.	0.01
191	氢化三联苯(Hydrogenated terphenyls)	61788-32-7			N.D.	0.01
192	芘(Pyrene)	129-00-0			N.D.	0.01
193	菲(Phenanthrene)	85-01-8	US EPA 3550C:2007	GC-MS	N.D.	0.01
194	荧蒽(Fluoranthene)	206-44-0	US EPA 8270E:2018		N.D.	0.01
195	苯并[k]荧蒽(Benzo[k]fluoranthene)	207-08-9			N.D.	0.01
196	2,2-双(4-羟基苯基)-4-甲基戊烷 (2,2-bis(4'-hydroxyphenyl)-4-methylpentane (Bisphenol P))	6807-17-6	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
197	1,7,7-三甲基-3-(苯基亚甲基)双环 [2.2.1]庚烷-2-酮 (1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC))	15087-24-8	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01
198	三(4-壬基苯基, 支链和直链)亚磷酸酯 (TNPP)(含≥0.1%的支链和直链 4-壬基苯酚)(Tris (4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥0.1% w/w of 4-nonylphenol, branched and linear (4-NP))	—	US EPA 3550C:2007 US EPA 8270E:2018	HPLC	N.D.	0.01
199	4-叔丁基苯酚(4-terebutylphenol)	98-54-4	US EPA 3550C:2007 US EPA 8270E:2018	HPLC	N.D.	0.01
200	2-甲氧基乙酸乙酯(2-methoxyethyl acetate)	110-49-6	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01

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序号 (No.)	检测项目(Test Items)	CAS No.	测试方法 (Test Methods)	测试仪器 (Equipment)	结果 (Results) (%)	MDL (%)
201	2,3,3,3-四氟-2-(七氟丙氧基)丙酸, 及其盐和酰基卤化物 (HFPO-DA) (2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (HFPO-DA))	—	US EPA 3550C:2007 US EPA 8270E:2018	HPLC	N.D.	0.01
202	2-苄基-2-二甲基氨基-1-(4-吗啉苯基)丁酮 (2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone)	119313-12-1		GC-MS	N.D.	0.01
203	2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮 (2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one)	71868-10-5	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01
204	邻苯二甲酸二异己酯 (Diisohexyl phthalate)	71850-09-4		GC-MS	N.D.	0.01
205	全氟丁烷磺酸(PFBS)及其盐 (Perfluorobutane sulfonic acid (PFBS) and its salts)	—	US EPA 3550C:2007 US EPA 8321B:2007	HPLC	N.D.	0.01
206	1-乙烯基咪唑(1-vinylimidazole)	1072-63-5		GC-MS	N.D.	0.01
207	2-甲基咪唑(2-methylimidazole)	693-98-1		GC-MS	N.D.	0.01
208	对羟基苯甲酸丁酯 (Butyl 4-hydroxybenzoate)	94-26-8	US EPA 3550C:2007 US EPA 8270E:2018	GC-MS	N.D.	0.01
209	双(乙酰丙酮基)二丁基锡(Dibutylbis(pentane-2,4-dionato-0,0') tin)	22673-19-4		GC-MS	N.D.	0.01

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备注(Remark): -N.D.=Not Detected (<MDL);

-MDL=Method Detected Limit 方法检出限;

-0.1%=1000mg/kg=1000ppm;

-*: 二氯化钴的浓度值是由钴(Co)和氯(Cl)的测试结果换算而来。五氧化二砷、三氧化二砷、重铬酸钠、砷酸氢铅、三乙基砷酸酯、铬酸钠、铬酸钾、重铬酸铵、重铬酸钾、硫酸钴、醋酸钴、碳酸钴、硝酸钴、铬酸铅、钼铬红、铅铬黄、硅酸铝耐火陶瓷纤维、氧化锆硅酸铝耐火陶瓷纤维、三氧化铬、三氧化铬及其低聚物产生的酸、铬酸锶、无水四硼酸钠、水合硼酸钠、铬酸铬、氢氧化铬酸锌钾、锌黄、硅酸铝耐火陶瓷纤维、叠氮化铅、2,4,6-三硝基苯二酚铅、苦味酸铅、砷酸、砷酸铅、砷酸钙、三氧化二砷、甲磺酸铅(II)、颜料黄 41、氧化铅与硫酸铅的复合物、硝酸铅、三碱式硫酸铅、氧化铅、钛酸铅、双(十八烷基)二氧化三铅、碱式乙酸铅、四乙基铅、二盐基邻苯二甲酸铅、氨基氧铅盐、掺杂铅的硅酸钡、磷酸氧化铅、钛酸铅锆、碱式碳酸铅、C16-18-脂肪酸铅盐、四氧化三铅、亚硫酸铅(II)、碱式硫酸铅、氟硼酸铅、硅酸铅、氧化镉、硝酸镉、碳酸镉、氢氧化镉的浓度是由物质中的元素测试结果换算而来。判断样品中是否含有以上金属化合物还需要进一步确认;其 MDL 是针对元素(例如:硼、钠、钾、砷、铅、钴、铝、硅、锆、钼、六价铬、磷、钙、锌、锶、钛、镉)的评估得到;三丁基氧化锡的结果由三丁基锡的测试结果换算得出。该结果为三丁基氧化锡的筛选结果,包括氧化三丁基锡和其盐类。如果需确定三丁基氧化锡的确切含量,则需要进一步确认;其 MDL 是针对三丁基锡的评估得到(The result of Cobalt dichloride was calculated by the testing result of heavy metal element and anion. The result of Diarsenic pentaoxide, Diarsenic trioxide, Sodium dichromate dehydrate, Lead hydrogen arsenate, Aluminosilicate, Zirconia aluminosilicate, Lead chromate, Lead sulphochromate yellow and lead chromate molybdate sulphate red, Boric acid, Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate, Sodium chromate, Potassium chromate, Ammonium dichromate and Potassium dichromate, Cobalt sulphate, Cobalt Dinitrate, Cobalt carbonate, Cobalt diacetate, Chromium trioxide, Chromic acid, Dichromic acid, Oligomers of chromic acid and Dichromic acid, Strontium chromate, Dichromium tris(chromate), Potassium hydroxyoctaoxidizincatedi-chromate, Pentazinc chromate octahydroxide, Aluminosilicate Refractory Ceramic Fibres (RCF), Zirconia Aluminosilicate Refractory Ceramic Fibres Zr-RCF, Lead azide Lead diazide, Lead styphnate, Lead dipicrate, Arsenic acid, Calcium arsenate, Trilead diarsenate, Pentalead tetraoxide sulphate, Lead dinitrate, Tetralead trioxide sulphate, Lead oxide (lead monoxide), Lead titanium trioxide, Dioxobis(stearato)trilead, Acetic acid, lead salt, basic, Tetraethyllead, [Phthalato(2-)]dioxotrilead, Lead cyanamidate, Silicic acid, barium salt, lead-doped, Trilead dioxide phosphonate, Lead Titanium Zirconium Oxide, Basic lead carbonate (trilead bis(carbonate)dihydroxide), Fatty acids, C16-18, lead salts, Lead tetroxide (orange lead), Sulfurous acid, lead salt, dibasic, lead oxide sulphate, Lead bis(tetrafluoroborate), Silicic acid, lead salt,

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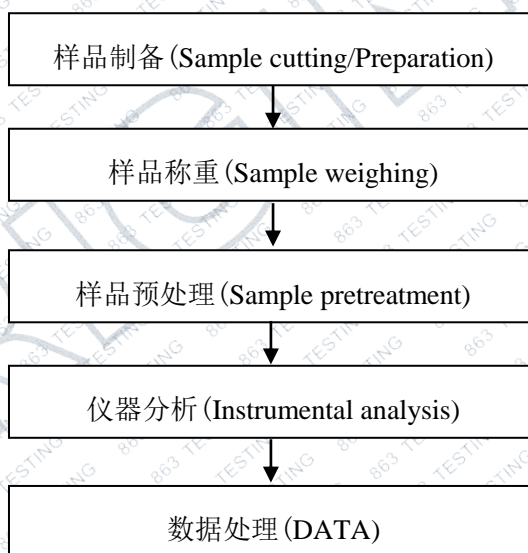
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Cadmium oxide, Cadmium nitrate, Cadmium carbonate, Cadmium hydroxide were calculated by the testing result of heavy metal element. To judge if the sample contains above metal compounds, further confirmation is needed; MDL is obtained by evaluating elements conversion (such as B, Na, K, As, Pb, Co, Si, Zr, Mo, Cr⁶⁺, P, Ca, Zn, Sr, Ti, Cd). The result of Bis(tributyltin) oxide was calculated by the testing result of tributyltin. This result was the screening result of Bis(tributyltin) oxide, including tributyltin oxide and its salts. If wants to know the exact content of Bis(tributyltin) oxide, further confirmation is needed; MDL is obtained by evaluating tributyltin content.)

测试流程(Test Process):



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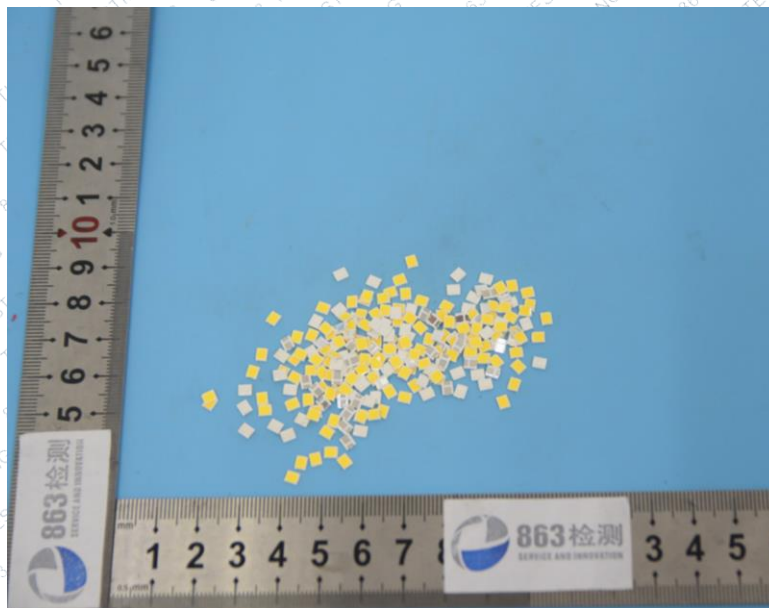
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样品照片(Photo of the sample)



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