

## 验证报告

编号: TAOEC24009357802

日期: 2025 年 02 月 26 日

第 1 页, 共 30 页

客户名称: 青岛微感智通科技有限公司  
客户地址: 山东省青岛市崂山区科苑纬一路 1 号创新园二期 F 楼 8 层 803 房间

样品名称: 3D TOF CAMERA  
测试基本型号: NYX650  
测试扩展型号: NYX660/DS86/DS87

以上样品及信息由客户提供。

SGS 工作编号: QDP24-005656  
样品接收时间: 2024 年 12 月 27 日  
验证周期: 2024 年 12 月 27 日 ~ 2025 年 02 月 12 日  
验证要求: 参考欧盟 RoHS 指令 2011/65/EU 的修正指令(EU) 2015/863。  
验证方法: 见后续页。  
验证程序和结果: 见后续页。

## 检测结果总结:

检测项目	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合

通标标准技术服务(青岛)有限公司  
授权签名

Justin Zhang 张波  
批准签署人

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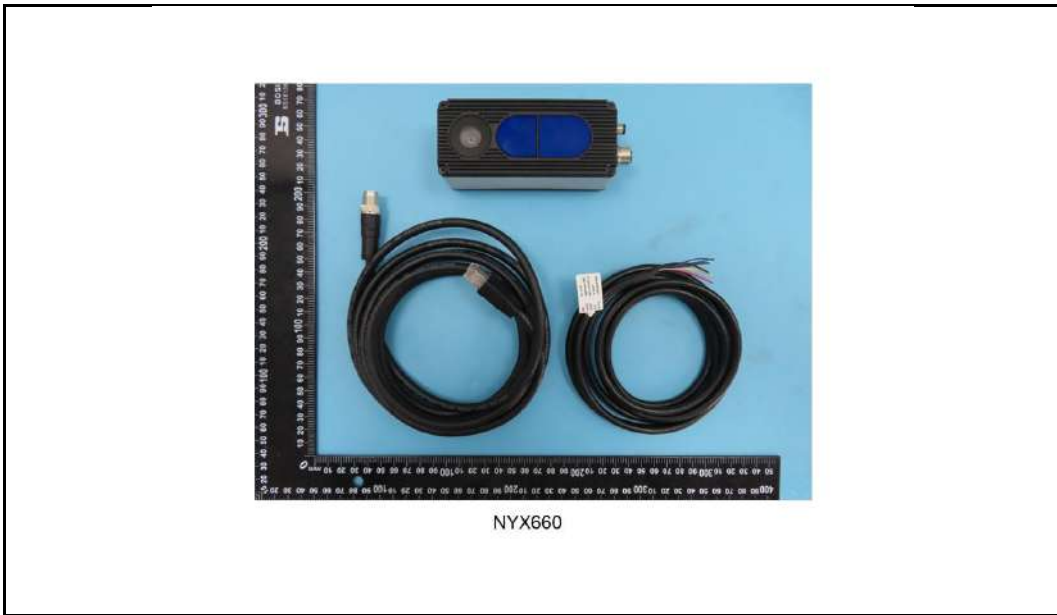
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SGS-CSTC (Technical Services) (Qingdao) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

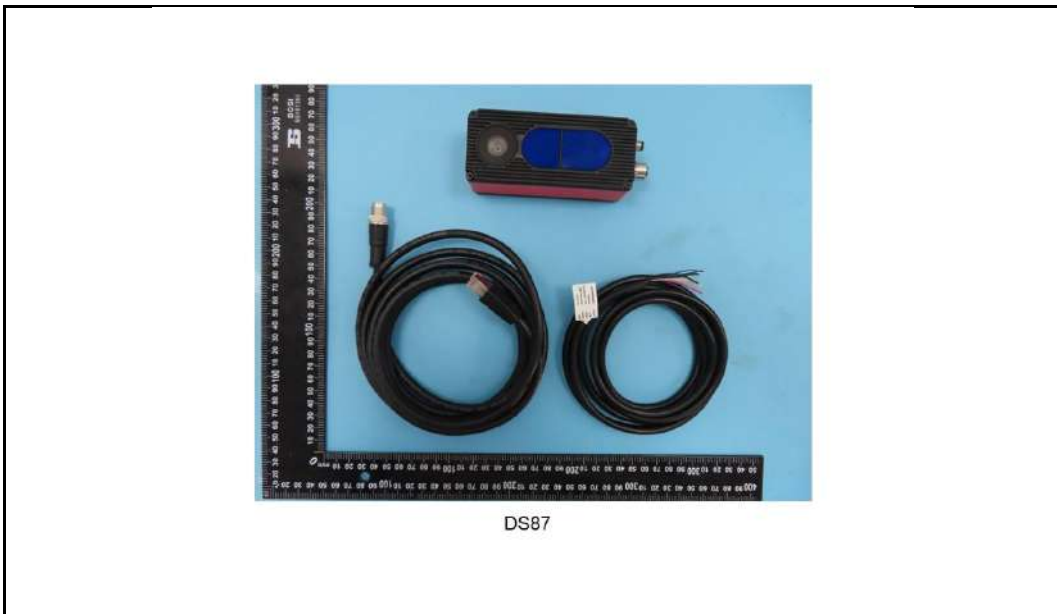
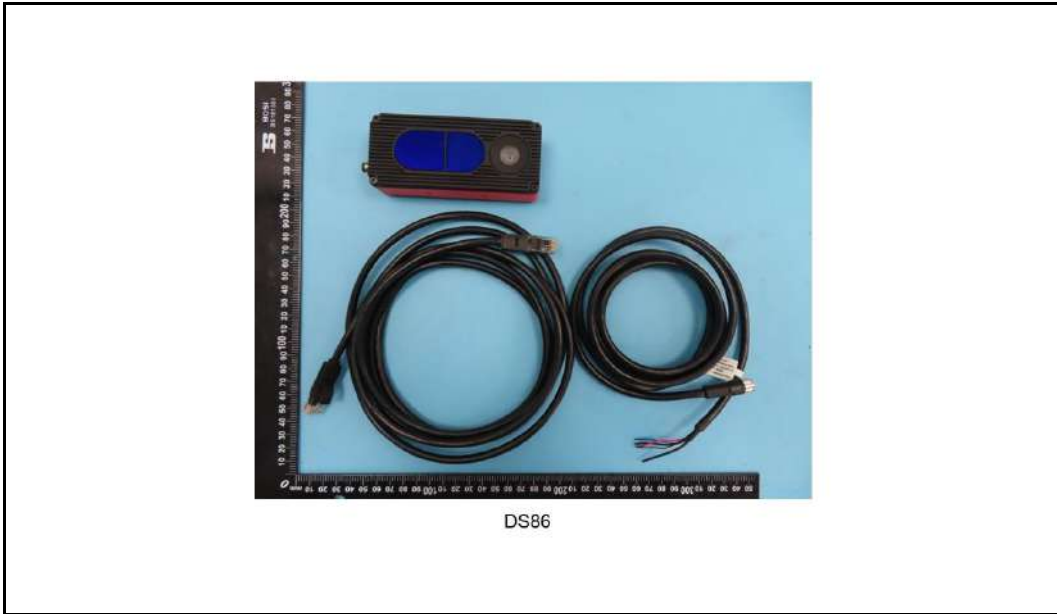
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### 样品照片



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**验证方法:**

1. 参考 IEC 62321-2:2021, 拆分申请者提供的成品。
2. 参考 IEC 62321-1:2013, 仅对本报告照片中标识的样品进行了下列测试分析。
  - (1) 参考 IEC 62321-3-1: 2013, 用能量色散型 X 射线荧光分析仪器进行筛选。
  - (2) 湿法化学检测方法: 参考 IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-12:2023, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES,UV-Vis 和 GC- MS 进行分析。



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SGS-CSTC (Shanghai) Technical Services (Qingdao) Co., Ltd.  
 青岛通标技术服务(青岛)有限公司  
 检验检测专用章  
 Inspection & Testing Services

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
 中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn  
 t (86-532) 68999888 sgs.china@sgs.com

# 验证报告

编号: TAOEC24009357802

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## 验证部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	TAO24-0093578-0001.C001	黑色金属
SN2	A2	TAO24-0093578-0001.C002	蓝色塑料
SN3	A3	TAO24-0093578-0001.C003	黑色涂层
SN4	A4	TAO24-0093578-0001.C004	透明塑料
SN5	A5	TAO24-0093578-0001.C005	黑色双面胶
SN6	A6	TAO24-0093578-0001.C006	黑色橡胶
SN7	A7	TAO24-0093578-0001.C007	白色塑料标签
SN8	A8	TAO24-0093578-0001.C008	灰色涂层
SN9	A9	TAO24-0093578-0001.C009	银色金属
SN10	A10	TAO24-0093578-0001.C010	灰色固体
SN11	A11	TAO24-0093578-0001.C011	黑色橡胶
SN12	A12	TAO24-0093578-0001.C012	银色金属
SN13	A13	TAO24-0093578-0001.C013	银色金属
SN14	A14	TAO24-0093578-0001.C014	银色金属螺丝
SN15	A15	TAO24-0093578-0001.C015	黑色本体
SN16	A16	TAO24-0093578-0001.C016	灰色固体
SN17	A17	TAO24-0093578-0001.C017	黑色橡胶
SN18	A18	TAO24-0093578-0001.C018	米色塑料
SN19	A19	TAO24-0093578-0001.C019	黑色本体
SN20	A20	TAO24-0093578-0001.C020	黑色 PCB
SN21	A21	TAO24-0093578-0001.C021	棕色 FPC
SN22	A22	TAO24-0093578-0001.C022	白色塑料
SN23	A23	TAO24-0093578-0001.C023	黑色塑料线皮
SN24	A24	TAO24-0093578-0001.C024	红色塑料线皮
SN25	A25	TAO24-0093578-0001.C025	黑色 FPC



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样品序号	样品编号	SGS 样品 ID	样品描述
SN26	A26	TAO24-0093578-0001.C026	黑色泡棉
SN27	A27	TAO24-0093578-0001.C027	银色金属
SN28	A28	TAO24-0093578-0001.C028	银色金属线芯
SN29	A29	TAO24-0093578-0001.C029	黑色本体
SN30	A30	TAO24-0093578-0001.C030	黑色本体
SN31	A31	TAO24-0093578-0001.C031	黑色本体
SN32	A32	TAO24-0093578-0001.C032	灰色塑料
SN33	A33	TAO24-0093578-0001.C033	黑色本体
SN34	A34	TAO24-0093578-0001.C034	黑色塑料
SN35	A35	TAO24-0093578-0001.C035	银色金属焊锡
SN36	A36	TAO24-0093578-0001.C036	米色塑料
SN37	A37	TAO24-0093578-0001.C037	黑色本体
SN38	A38	TAO24-0093578-0001.C038	红色塑料线皮
SN39	A39	TAO24-0093578-0001.C039	黑色塑料线皮
SN40	A40	TAO24-0093578-0001.C040	黑色本体
SN41	A41	TAO24-0093578-0001.C041	黑色本体
SN42	A42	TAO24-0093578-0001.C042	黑色本体
SN43	A43	TAO24-0093578-0001.C043	黑色 PCB
SN44	A44	TAO24-0093578-0001.C044	黄色金属
SN45	A45	TAO24-0093578-0001.C045	黄色 LED
SN46	A46	TAO24-0093578-0001.C046	绿色 LED
SN47	A47	TAO24-0093578-0001.C047	绿色 PCB
SN48	A48	TAO24-0093578-0001.C048	黑色胶
SN49	A49	TAO24-0093578-0001.C049	黑色磁体
SN50	A50	TAO24-0093578-0001.C050	银色金属



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 检验检测专用章  
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SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
 中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

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样品序号	样品编号	SGS 样品 ID	样品描述
SN51	A51	TAO24-0093578-0001.C051	黑色本体
SN52	A52	TAO24-0093578-0001.C052	黑色本体
SN53	A53	TAO24-0093578-0001.C053	黑色本体
SN54	A54	TAO24-0093578-0001.C054	米色塑料
SN55	A55	TAO24-0093578-0001.C055	黑色塑料
SN56	A56	TAO24-0093578-0001.C056	银色金属焊锡
SN57	A57	TAO24-0093578-0001.C057	黑色 PCB
SN58	A58	TAO24-0093578-0001.C058	深灰色塑料
SN59	A59	TAO24-0093578-0001.C059	黑色塑料
SN60	A60	TAO24-0093578-0001.C060	黑色 PCB
SN61	A61	TAO24-0093578-0001.C061	黑色胶
SN62	A62	TAO24-0093578-0001.C062	黑色固体
SN63	A63	TAO24-0093578-0001.C063	黑色塑料
SN64	A64	TAO24-0093578-0001.C064	透明玻璃
SN65	A65	TAO24-0093578-0001.C065	透明玻璃
SN66	A66	TAO24-0093578-0001.C066	透明玻璃
SN67	A67	TAO24-0093578-0001.C067	黑色金属
SN68	A68	TAO24-0093578-0001.C068	透明玻璃
SN69	A69	TAO24-0093578-0001.C069	黑色金属
SN70	A70	TAO24-0093578-0001.C070	黑色 PCB
SN71	A71	TAO24-0093578-0001.C071	深灰色塑料
SN72	A72	TAO24-0093578-0001.C072	黑色玻璃
SN73	A73	TAO24-0093578-0001.C073	透明玻璃
SN74	A74	TAO24-0093578-0001.C074	透明玻璃
SN75	A75	TAO24-0093578-0001.C075	黑色金属



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样品序号	样品编号	SGS 样品 ID	样品描述
SN76	A76	TAO24-0093578-0001.C076	透明玻璃
SN77	A77	TAO24-0093578-0001.C077	黑色金属
SN78	A78	TAO24-0093578-0001.C078	透明玻璃
SN79	A79	TAO24-0093578-0001.C079	透明玻璃
SN80	A80	TAO24-0093578-0001.C080	黑色塑料
SN81	A81	TAO24-0093578-0001.C081	白色塑料
SN82	A82	TAO24-0093578-0001.C082	黑色塑料热缩管
SN83	A83	TAO24-0093578-0001.C083	银色金属
SN84	A84	TAO24-0093578-0001.C084	黑色橡胶
SN85	A85	TAO24-0093578-0001.C085	银色金属螺母
SN86	A86	TAO24-0093578-0001.C086	黑色塑料
SN87	A87	TAO24-0093578-0001.C087	黑色 FPC
SN88	A88	TAO24-0093578-0001.C088	棕色 FPC
SN89	A89	TAO24-0093578-0001.C089	蓝色塑料线皮
SN90	A90	TAO24-0093578-0001.C090	灰色塑料线皮
SN91	A91	TAO24-0093578-0001.C091	黄色塑料线皮
SN92	A92	TAO24-0093578-0001.C092	白色塑料线皮
SN93	A93	TAO24-0093578-0001.C093	红色塑料线皮
SN94	A94	TAO24-0093578-0001.C094.C001	Black plastic(jacket)
SN95	A95	TAO24-0093578-0001.C095	黄色金属
SN96	A96	TAO24-0093578-0001.C096	黑色胶
SN97	A97	TAO24-0093578-0001.C097	黑色塑料
SN98	A98	TAO24-0093578-0001.C098	透明塑料
SN99	A99	TAO24-0093578-0001.C099	黑色塑料线皮
SN100	A100	TAO24-0093578-0001.C100	银色金属



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SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
 中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn  
 t (86-532) 68999888 sgs.china@sgs.com

样品序号	样品编号	SGS 样品 ID	样品描述
SN101	A101	TAO24-0093578-0001.C101	铜色金属线芯
SN102	A102	TAO24-0093578-0001.C102	白色/棕色塑料线皮
SN103	A103	TAO24-0093578-0001.C103	棕色塑料线皮
SN104	A104	TAO24-0093578-0001.C104	白色/绿色塑料线皮
SN105	A105	TAO24-0093578-0001.C105	绿色塑料线皮
SN106	A106	TAO24-0093578-0001.C106	橙色塑料线皮
SN107	A107	TAO24-0093578-0001.C107	白色/橙色塑料线皮
SN108	A108	TAO24-0093578-0001.C108	白色/蓝色塑料线皮
SN109	A109	TAO24-0093578-0001.C109	蓝色塑料线皮
SN110	A110	TAO24-0093578-0001.C110	黑色塑料热缩管
SN111	A111	TAO24-0093578-0001.C111	银色金属
SN112	A112	TAO24-0093578-0001.C112	黑色塑料
SN113	A113	TAO24-0093578-0001.C113	黑色塑料线皮
SN114	A114	TAO24-0093578-0001.C114	白色塑料标签
SN115	A115	TAO24-0093578-0001.C115	黑色塑料
SN116	A116	TAO24-0093578-0001.C116	银色金属
SN117	A117	TAO24-0093578-0001.C117	白色塑料
SN118	A118	TAO24-0093578-0001.C118	银色金属焊锡
SN119	A119	TAO24-0093578-0001.C119	黄色金属
SN120	A120	TAO24-0093578-0001.C120	黑色塑料热缩管
SN121	A121	TAO24-0093578-0001.C121	黑色塑料线皮
SN122	A122	TAO24-0093578-0001.C122	黑色塑料线皮
SN123	A123	TAO24-0093578-0001.C123	蓝色塑料线皮
SN124	A124	TAO24-0093578-0001.C124	黄色塑料线皮
SN125	A125	TAO24-0093578-0001.C125	粉色塑料线皮



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样品序号	样品编号	SGS 样品 ID	样品描述
SN126	A126	TAO24-0093578-0001.C126	白色塑料线皮
SN127	A127	TAO24-0093578-0001.C127	棕色塑料线皮
SN128	A128	TAO24-0093578-0001.C128	绿色塑料线皮
SN129	A129	TAO24-0093578-0001.C129	银色金属
SN130	A130	TAO24-0093578-0001.C130	银色固体
SN131	B1	TAO24-0093578-0002.C001	棕色 FPC
SN132	B2	TAO24-0093578-0002.C002	灰色固体
SN133	B3	TAO24-0093578-0002.C003	黑色 PCB
SN134	B4	TAO24-0093578-0002.C004	黑色本体
SN135	B5	TAO24-0093578-0002.C005	黑色本体
SN136	B6	TAO24-0093578-0002.C006	黑色本体
SN137	B7	TAO24-0093578-0002.C007	黑色本体
SN138	B8	TAO24-0093578-0002.C008	红色胶
SN139	B9	TAO24-0093578-0002.C009	灰色固体
SN140	B10	TAO24-0093578-0002.C010	黑色塑料
SN141	B11	TAO24-0093578-0002.C011	黑色本体
SN142	B12	TAO24-0093578-0002.C012	黑色塑料
SN143	B13	TAO24-0093578-0002.C013	黑色本体
SN144	B14	TAO24-0093578-0002.C014	黑色本体
SN145	B15	TAO24-0093578-0002.C015	银色金属
SN146	B16	TAO24-0093578-0002.C016	黑色橡胶
SN147	B17	TAO24-0093578-0002.C017	银色金属
SN148	B18	TAO24-0093578-0002.C018	米色纸
SN149	B19	TAO24-0093578-0002.C019	灰色金属
SN150	B20	TAO24-0093578-0002.C020	灰色金属



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 青岛通标技术服务(青岛)有限公司  
 检验检测专用章  
 Inspection & Testing Services

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
 中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn  
 t (86-532) 68999888 sgs.china@sgs.com

# 验证报告

编号: TAOEC24009357802

日期: 2025 年 02 月 26 日

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样品序号	样品编号	SGS 样品 ID	样品描述
SN151	B21	TAO24-0093578-0002.C021	棕色塑料胶带
SN152	B22	TAO24-0093578-0002.C022	黑色磁体
SN153	B23	TAO24-0093578-0002.C023	黑色塑料
SN154	B24	TAO24-0093578-0002.C024	铜色漆包线
SN155	B25	TAO24-0093578-0002.C025	红色漆包线
SN156	B26	TAO24-0093578-0002.C026	黑色 PCB
SN157	B27	TAO24-0093578-0002.C027	黑色本体
SN158	B28	TAO24-0093578-0002.C028	黑色本体
SN159	B29	TAO24-0093578-0002.C029	黑色本体
SN160	B30	TAO24-0093578-0002.C030	黑色本体
SN161	B31	TAO24-0093578-0002.C031	黑色本体
SN162	B32	TAO24-0093578-0002.C032	黑色本体
SN163	B33	TAO24-0093578-0002.C033	黑色本体
SN164	B34	TAO24-0093578-0002.C034	黑色本体
SN165	B35	TAO24-0093578-0002.C035	灰色固体
SN166	B36	TAO24-0093578-0002.C036	黑色 PCB
SN167	B37	TAO24-0093578-0002.C037	黑色本体
SN168	B48	TAO24-0093578-0002.C048	黑色固体
SN169	B49	TAO24-0093578-0002.C049	黑色胶
SN170	B50	TAO24-0093578-0002.C050	银色金属
SN171	B51	TAO24-0093578-0002.C051	银色金属螺母
SN172	B52	TAO24-0093578-0002.C052	黑色橡胶
SN173	B53	TAO24-0093578-0002.C053	黑色塑料热缩管
SN174	B54	TAO24-0093578-0002.C054	白色塑料
SN175	B55	TAO24-0093578-0002.C055	黑色塑料



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SGS CSTC (Shandong) Technical Services Co., Ltd.  
 山东通标技术服务(青岛)有限公司

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
 中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn  
 t (86-532) 68999888 sgs.china@sgs.com

样品序号	样品编号	SGS 样品 ID	样品描述
SN176	B56	TAO24-0093578-0002.C056	黑色橡胶
SN177	B57	TAO24-0093578-0002.C057	银色金属
SN178	B58	TAO24-0093578-0002.C058	银色金属
SN179	B59	TAO24-0093578-0002.C059	黑色胶
SN180	B60	TAO24-0093578-0002.C060	黄色金属
SN181	B61	TAO24-0093578-0002.C061	蓝色塑料线皮
SN182	B62	TAO24-0093578-0002.C062	白色/蓝色塑料线皮
SN183	B63	TAO24-0093578-0002.C063	橙色塑料线皮
SN184	B64	TAO24-0093578-0002.C064	白色/橙色塑料线皮
SN185	B65	TAO24-0093578-0002.C065	绿色塑料线皮
SN186	B66	TAO24-0093578-0002.C066	白色/绿色塑料线皮
SN187	B67	TAO24-0093578-0002.C067	棕色塑料线皮
SN188	B68	TAO24-0093578-0002.C068	白色/棕色塑料线皮
SN189	B69	TAO24-0093578-0002.C069	铜色金属线芯
SN190	B70	TAO24-0093578-0002.C070	黑色塑料线皮
SN191	B71	TAO24-0093578-0002.C071	黑色塑料
SN192	B72	TAO24-0093578-0002.C072	银色金属
SN193	B73	TAO24-0093578-0002.C073	透明塑料
SN194	B74	TAO24-0093578-0002.C074	银色金属
SN195	B75	TAO24-0093578-0002.C075	银色金属
SN196	B76	TAO24-0093578-0002.C076	银色金属
SN197	B77	TAO24-0093578-0002.C077	白色塑料
SN198	B78	TAO24-0093578-0002.C078	白色塑料
SN199	B79	TAO24-0093578-0002.C079	银色金属
SN200	B80	TAO24-0093578-0002.C080	透明塑料



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 标准技术服务(青岛)有限公司  
 检验检测专用章  
 Inspection & Testing Services

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
 中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn  
 t (86-532) 68999888 sgs.china@sgs.com

# 验证报告

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样品序号	样品编号	SGS 样品 ID	样品描述
SN201	B81	TAO24-0093578-0002.C081	银色固体
SN202	B82	TAO24-0093578-0002.C082	橙色塑料线皮
SN203	B83	TAO24-0093578-0002.C083	白色/橙色塑料线皮
SN204	B84	TAO24-0093578-0002.C084	绿色塑料线皮
SN205	B85	TAO24-0093578-0002.C085	白色/绿色塑料线皮
SN206	B86	TAO24-0093578-0002.C086	铜色金属线芯
SN207	B87	TAO24-0093578-0002.C087	白色/蓝色塑料线皮
SN208	B88	TAO24-0093578-0002.C088	蓝色塑料线皮
SN209	B89	TAO24-0093578-0002.C089	白色/棕色塑料线皮
SN210	B90	TAO24-0093578-0002.C090	棕色塑料线皮
SN211	C1	TAO24-0093578-0003.C001	红色涂层
SN212	D1	TAO24-0093578-0004.C001	红色涂层



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SGS-CSTC (Shanghai) Technical Services (Qingdao) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

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t (86-532) 68999888 sgs.china@sgs.com

# 验证报告

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## 验证结果:

(除特别标注, 单位均为: mg/kg)

检测项目	A1	A2	A3	A4	A5	A6	A7	A8
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	BL	BL	BL	BL	BL
PBB	---	BL	BL	BL	BL	BL	BL	BL
PBDE	---	BL	BL	BL	BL	BL	BL	BL
DEHP	---	BL	BL	BL	BL	ND	BL	BL
BBP	---	BL	BL	BL	BL	ND	BL	BL
DBP	---	BL	BL	BL	BL	ND	BL	BL
DIBP	---	BL	BL	BL	BL	ND	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	ND	ND	BL	BL
PBB	---	BL	BL	---	---	---	BL	BL
PBDE	---	BL	BL	---	---	---	BL	BL
DEHP	---	BL	ND	---	---	---	BL	BL
BBP	---	BL	ND	---	---	---	BL	BL
DBP	---	BL	ND	---	---	---	BL	BL
DIBP	---	BL	ND	---	---	---	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A17	A18	A19	A20	A21	A22	A23	A24
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	ND	BL	BL
PBDE	BL	BL	BL	BL	BL	ND	BL	BL
DEHP	ND	BL	BL	BL	BL	ND	BL	BL
BBP	ND	BL	BL	BL	BL	ND	BL	BL
DBP	ND	BL	BL	BL	BL	ND	BL	BL
DIBP	ND	BL	BL	BL	BL	ND	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A25	A26	A27	A28	A29	A30	A31	A32
Pb	BL	BL	BL	BL	BL	BL	12480▲	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL



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Technical Services (Qingdao) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn  
t (86-532) 68999888 sgs.china@sgs.com

# 验证报告

编号: TAOEC24009357802

日期: 2025年02月26日

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检测项目	A25	A26	A27	A28	A29	A30	A31	A32
Cr(VI)▼	BL	BL	ND	BL	BL	BL	BL	BL
PBB	BL	BL	---	---	BL	ND	BL	BL
PBDE	BL	BL	---	---	BL	ND	BL	BL
DEHP	BL	BL	---	---	BL	ND	BL	BL
BBP	BL	BL	---	---	BL	ND	BL	BL
DBP	BL	BL	---	---	BL	ND	BL	BL
DIBP	BL	BL	---	---	BL	ND	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A33	A34	A35	A36	A37	A38	A39	A40
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	---	BL	BL	BL	BL	ND
PBDE	BL	BL	---	BL	BL	BL	BL	ND
DEHP	BL	BL	---	BL	BL	BL	BL	ND
BBP	BL	BL	---	BL	BL	BL	BL	ND
DBP	BL	BL	---	BL	BL	BL	BL	ND
DIBP	BL	BL	---	BL	BL	BL	BL	ND
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A41	A42	A43	A44	A45	A46	A47	A48
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	ND	---	BL	BL	ND	BL
PBDE	BL	BL	ND	---	BL	BL	ND	BL
DEHP	BL	BL	ND	---	BL	BL	ND	BL
BBP	BL	BL	ND	---	BL	BL	ND	BL
DBP	BL	BL	ND	---	BL	BL	ND	BL
DIBP	BL	BL	ND	---	BL	BL	ND	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A49	A50	A51	A52	A53	A54	A55	A56
Pb	BL	BL	BL	9894▲	BL	BL	BL	403722▲
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	---	BL	BL	BL	BL	ND	---
PBDE	BL	---	BL	BL	BL	BL	ND	---
DEHP	BL	---	BL	BL	BL	BL	ND	---
BBP	BL	---	BL	BL	BL	BL	ND	---
DBP	BL	---	BL	BL	BL	BL	ND	---



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SGS-CSTC (Shanghai) Technical Services (Qingdao) Co., Ltd.  
SGS-CSTC (上海) 技术服务有限公司 (青岛)

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn  
t (86-532) 68999888 sgs.china@sgs.com

# 验证报告

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检测项目	A49	A50	A51	A52	A53	A54	A55	A56
DIBP	BL	---	BL	BL	BL	BL	ND	---
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A57	A58	A59	A60	A61	A62	A63	A64
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	BL	BL	BL
PBDE	BL	BL	BL	BL	BL	BL	BL	BL
DEHP	BL	BL	BL	BL	BL	BL	BL	BL
BBP	BL	BL	BL	BL	BL	BL	BL	BL
DBP	BL	BL	BL	BL	BL	BL	BL	BL
DIBP	BL	BL	BL	BL	BL	BL	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A65	A66	A67	A68	A69	A70	A71	A72
Pb	BL	BL	BL	BL	36149▲	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	ND	BL	BL	BL	BL	BL
PBB	BL	BL	---	BL	---	BL	BL	BL
PBDE	BL	BL	---	BL	---	BL	BL	BL
DEHP	BL	BL	---	BL	---	BL	BL	BL
BBP	BL	BL	---	BL	---	BL	BL	BL
DBP	BL	BL	---	BL	---	BL	BL	BL
DIBP	BL	BL	---	BL	---	BL	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A73	A74	A75	A76	A77	A78	A79	A80
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	ND	BL	BL	BL	BL
PBB	BL	BL	---	BL	---	BL	BL	BL
PBDE	BL	BL	---	BL	---	BL	BL	BL
DEHP	BL	BL	---	BL	---	BL	BL	BL
BBP	BL	BL	---	BL	---	BL	BL	BL
DBP	BL	BL	---	BL	---	BL	BL	BL
DIBP	BL	BL	---	BL	---	BL	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合



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SGS-CSTC 青岛技术服务(青岛)有限公司  
Inspection & Testing Services

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

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t (86-532) 68999888 sgs.china@sgs.com

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编号: TAOEC24009357802

日期: 2025年02月26日

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检测项目	A81	A82	A83	A84	A85	A86	A87	A88
Pb	BL	BL	36883▲	BL	30896▲	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	---	BL	---	BL	BL	BL
PBDE	BL	BL	---	BL	---	BL	BL	BL
DEHP	BL	BL	---	BL	---	BL	BL	BL
BBP	BL	BL	---	BL	---	BL	BL	BL
DBP	BL	BL	---	BL	---	BL	BL	BL
DIBP	BL	BL	---	BL	---	BL	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A89	A90	A91	A92	A93	A94	A95	A96
Pb	BL	BL	BL	BL	BL	BL	39153▲	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	BL	---	BL
PBDE	BL	BL	BL	BL	BL	BL	---	BL
DEHP	ND	ND	ND	ND	ND	ND	---	BL
BBP	ND	ND	ND	ND	ND	ND	---	BL
DBP	ND	ND	ND	ND	ND	ND	---	BL
DIBP	ND	ND	ND	ND	ND	ND	---	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A97	A98	A99	A100	A101	A102	A103	A104
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	BL	---	---	BL	BL	BL
PBDE	BL	BL	BL	---	---	BL	BL	BL
DEHP	BL	BL	BL	---	---	BL	BL	BL
BBP	BL	BL	BL	---	---	BL	BL	BL
DBP	BL	BL	BL	---	---	BL	BL	BL
DIBP	BL	BL	BL	---	---	BL	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A105	A106	A107	A108	A109	A110	A111	A112
Pb	BL	BL	BL	BL	BL	BL	34900▲	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	BL	---	BL
PBDE	BL	BL	BL	BL	BL	BL	---	BL



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SGS CSTC Technical Services (Qingdao) Co., Ltd.  
 青岛标准技术服务(青岛)有限公司  
 Inspection & Testing Services

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
 中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn  
 t (86-532) 68999888 sgs.china@sgs.com



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检测项目	A105	A106	A107	A108	A109	A110	A111	A112
DEHP	BL	BL	BL	BL	BL	BL	---	BL
BBP	BL	BL	BL	BL	BL	BL	---	BL
DBP	BL	BL	BL	BL	BL	BL	---	BL
DIBP	BL	BL	BL	BL	BL	BL	---	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A113	A114	A115	A116	A117	A118	A119	A120
Pb	BL	BL	BL	36847▲	BL	BL	39355▲	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	BL	---	BL	---	---	BL
PBDE	BL	BL	BL	---	BL	---	---	BL
DEHP	BL	ND	BL	---	BL	---	---	BL
BBP	BL	ND	BL	---	BL	---	---	BL
DBP	BL	ND	BL	---	BL	---	---	BL
DIBP	BL	ND	BL	---	BL	---	---	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A121	A122	A123	A124	A125	A126	A127	A128
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	BL	BL	BL
PBDE	BL	BL	BL	BL	BL	BL	BL	BL
DEHP	BL	BL	BL	BL	BL	BL	BL	BL
BBP	BL	BL	BL	BL	BL	BL	BL	BL
DBP	BL	BL	BL	BL	BL	BL	BL	BL
DIBP	BL	BL	BL	BL	BL	BL	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A129	A130	B1	B2	B3	B4	B5	B6
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	ND	BL	BL	BL	BL
PBB	---	BL	BL	BL	BL	BL	BL	BL
PBDE	---	BL	BL	BL	BL	BL	BL	BL
DEHP	---	BL	BL	BL	BL	BL	BL	BL
BBP	---	BL	BL	BL	BL	BL	BL	BL
DBP	---	BL	BL	BL	BL	BL	BL	BL
DIBP	---	BL	BL	BL	BL	BL	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合



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SGS-CSTC (Shanghai) Technical Services (Qingdao) Co., Ltd.  
Technical Services (Qingdao) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101  
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgsgroup.com.cn  
t (86-532) 68999888 sgs.china@sgs.com

检测项目	B7	B8	B9	B10	B11	B12	B13	B14
Pb	101	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	ND	BL	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	BL	BL	BL
PBDE	BL	BL	BL	BL	BL	BL	BL	BL
DEHP	BL	BL	BL	BL	BL	BL	BL	BL
BBP	BL	BL	BL	BL	BL	BL	BL	BL
DBP	BL	BL	BL	BL	BL	BL	BL	BL
DIBP	BL	BL	BL	BL	BL	BL	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	B15	B16	B17	B18	B19	B20	B21	B22
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	---	BL	---	BL	---	---	BL	BL
PBDE	---	BL	---	BL	---	---	BL	BL
DEHP	---	BL	---	BL	---	---	BL	BL
BBP	---	BL	---	BL	---	---	BL	BL
DBP	---	BL	---	BL	---	---	BL	BL
DIBP	---	BL	---	BL	---	---	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	B23	B24	B25	B26	B27	B28	B29	B30
Pb	BL	BL	BL	BL	22164▲	13728▲	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	BL	BL	BL
PBDE	BL	BL	BL	BL	BL	BL	BL	BL
DEHP	BL	BL	BL	BL	BL	BL	BL	BL
BBP	BL	BL	BL	BL	BL	BL	BL	BL
DBP	BL	BL	BL	BL	BL	BL	BL	BL
DIBP	BL	BL	BL	BL	BL	BL	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	B31	B32	B33	B34	B35	B36	B37	B48
Pb	BL	BL	BL	15951▲	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	ND
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	ND	BL	ND	ND



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 中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn  
 t (86-532) 68999888 sgs.china@sgs.com

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检测项目	B31	B32	B33	B34	B35	B36	B37	B48
PBB	BL	BL	BL	BL	BL	BL	BL	BL
PBDE	BL	BL	BL	BL	BL	BL	BL	BL
DEHP	BL	BL	BL	BL	BL	BL	BL	BL
BBP	BL	BL	BL	BL	BL	BL	BL	BL
DBP	BL	BL	BL	BL	BL	BL	BL	BL
DIBP	BL	BL	BL	BL	BL	BL	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	B49	B50	B51	B52	B53	B54	B55	B56
Pb	BL	39700▲	31938▲	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	---	---	BL	BL	BL	BL	BL
PBDE	BL	---	---	BL	BL	BL	BL	BL
DEHP	BL	---	---	BL	BL	BL	BL	BL
BBP	BL	---	---	BL	BL	BL	BL	BL
DBP	BL	---	---	BL	BL	BL	BL	BL
DIBP	BL	---	---	BL	BL	BL	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	B57	B58	B59	B60	B61	B62	B63	B64
Pb	BL	BL	BL	38048▲	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	BL	BL	BL	BL	BL
PBB	---	---	BL	---	BL	BL	BL	BL
PBDE	---	---	BL	---	BL	BL	BL	BL
DEHP	---	---	BL	---	BL	BL	BL	BL
BBP	---	---	BL	---	BL	BL	BL	BL
DBP	---	---	BL	---	BL	BL	BL	BL
DIBP	---	---	BL	---	BL	BL	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	B65	B66	B67	B68	B69	B70	B71	B72
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	BL	BL	---	BL	BL	---
PBDE	BL	BL	BL	BL	---	BL	BL	---
DEHP	BL	BL	BL	BL	---	BL	BL	---
BBP	BL	BL	BL	BL	---	BL	BL	---
DBP	BL	BL	BL	BL	---	BL	BL	---
DIBP	BL	BL	BL	BL	---	BL	BL	---



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中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgsgroup.com.cn  
t (86-532) 68999888 sgs.china@sgs.com

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检测项目	B65	B66	B67	B68	B69	B70	B71	B72
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	B73	B74	B75	B76	B77	B78	B79	B80
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	ND	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	---	---	---	BL	BL	---	BL
PBDE	BL	---	---	---	BL	BL	---	BL
DEHP	BL	---	---	---	BL	BL	---	BL
BBP	BL	---	---	---	BL	BL	---	BL
DBP	BL	---	---	---	BL	BL	---	BL
DIBP	BL	---	---	---	BL	BL	---	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	B81	B82	B83	B84	B85	B86	B87	B88
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	---	BL	BL
PBDE	BL	BL	BL	BL	BL	---	BL	BL
DEHP	BL	BL	BL	BL	BL	---	BL	BL
BBP	BL	BL	BL	BL	BL	---	BL	BL
DBP	BL	BL	BL	BL	BL	---	BL	BL
DIBP	BL	BL	BL	BL	BL	---	BL	BL
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	B89	B90	C1	D1
Pb	BL	BL	BL	BL
Hg	BL	BL	BL	BL
Cd	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL
PBB	BL	BL	BL	BL
PBDE	BL	BL	BL	BL
DEHP	BL	BL	BL	BL
BBP	BL	BL	BL	BL
DBP	BL	BL	BL	BL
DIBP	BL	BL	BL	BL
结论	符合	符合	符合	符合



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备注:

(1) X 射线荧光光谱法(XRF)筛选结果说明:

(a)下表为 IEC62321-3-1: 2013 附录 A 不同基体材料中以 mg/kg 表示的筛选元素限值:

元素	聚合物	金属	复合材料
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	不适用	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(b) 现行法规限制的最大允许值是对 PBB/PBDE 和 Cr(VI) 而不是对 Br 和 Cr 的, 而 XRF 测定的是 Br 和 Cr。如果元素 Br 和或 Cr 的定量结果均高于限值(Br 计算基于在常见物质中 PBB/PBDE 的组成的理论计算), 则样品的筛选结果为“不确定”。

(c) EDXRF 的结果用于初步筛选, LOD=检出限, BL=低于限值, OL=超出限值, IN (符号“X”标记的区域)=不确定, 需要进一步研究, 我们建议客户用更精确的化学检测方法测试样品, 如用 ICP-OES 测定 Cd/Pb/Hg; 用 UV-Vis 测定 Cr(VI); 用 GC-MS 测定 PBB/PBDE。

(d) 对于复合材料, EDXRF 筛选测定元素所得数据可能与样品中实际含量不同。

(2) 邻苯二甲酸酯(PHTH)先进行筛分检测以确认样品是否符合限值要求, 符合则以“BL”表示, 若不符合则采用更精确的 GC-MS 化学检测方法测试样品。

检测项目	CAS No.
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7
邻苯二甲酸丁苄酯 (BBP)	85-68-7
邻苯二甲酸二丁酯 (DBP)	84-74-2
邻苯二甲酸二异丁酯 (DIBP)	84-69-5

(3) 化学检测方法结果说明:

(a) mg/kg = 0.0001%, MDL=方法检出限, ND =未检出(低于 MDL), --- =不适用。

(b) 化学检测方法的表达单位和方法检出限

检测项目	Pb	Hg	Cd	DEHP	BBP	DBP	DIB
单位	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/l
方法检出限	10	10	10	100	100	100	100

任何一种 PBB 和 PBDE 的方法检出限是 100 mg/kg;

聚合物, 复合材料和皮革样品中 Cr(VI)的方法检出限是 10 mg/kg。

金属样品中 Cr(VI)的方法检出限是 0.10  $\mu\text{g}/\text{cm}^2$ 。

(c) ▼ = 金属样品中

a. 当六价格的浓度高于 0.13  $\mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价格;

b. 当六价格的浓度为 ND(低于 0.10  $\mu\text{g}/\text{cm}^2$ )时, 样品为阴性, 即未检测到六价格;

c. 当六价格的浓度介于 0.10  $\mu\text{g}/\text{cm}^2$ 与 0.13  $\mu\text{g}/\text{cm}^2$ 之间时, 无法直接判定是否检测到六价格, 因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期, 样品的六价格检测结果仅能代表检测时样品含六价格的状态。

(4) RoHS 指令中限制物质及均质材料中最大允许浓度值: Cd: 0.01%, Pb/Hg/Cr(VI)/PBB/PBDE/ DEHP



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t (86-532) 68999888 www.sgs.com  
t (86-532) 68999888 sgs.china@sgs.com

# 验证报告

编号: TAOEC24009357802

日期: 2025 年 02 月 26 日

第 22 页, 共 30 页

/BBP/DBP/DIBP: 0.1%, 限值引用自 RoHS 指令(EU) 2015/863。

(5) IEC 62321 系列等同于 EN 62321 系列。

(6)▲根据客户提供的声明, 编号 A31、A52、B27、B28、B34 中的铅(Pb)被欧盟 RoHS 指令 2011/65/EU 豁免, 相应豁免条文(请以英文原文为准) [ANNEX III 7(a)]: 高熔点型焊料中的铅(即铅含量等于或大于 85%的铅基合金焊料)。

更多豁免相关信息, 可以从以下链接获取:

[https://rohs.sgsonline.com.cn/PDFLinks/zh-cn/RSTS-TP-037%20RoHS%20Exemption%20\(CN\).pdf](https://rohs.sgsonline.com.cn/PDFLinks/zh-cn/RSTS-TP-037%20RoHS%20Exemption%20(CN).pdf)

(7)▲根据客户提供的声明, 编号 A56、A69、A83、A85、A95、A111、A116、A119、B50、B51、B60 中的铅(Pb)被欧盟 RoHS 指令 2011/65/EU 豁免, 相应豁免条文(请以英文原文为准) [ANNEX III 6(c)]: 铜合金中的铅含量不得超过 4%。

更多豁免相关信息, 可以从以下链接获取:

[https://rohs.sgsonline.com.cn/PDFLinks/zh-cn/RSTS-TP-037%20RoHS%20Exemption%20\(CN\).pdf](https://rohs.sgsonline.com.cn/PDFLinks/zh-cn/RSTS-TP-037%20RoHS%20Exemption%20(CN).pdf)

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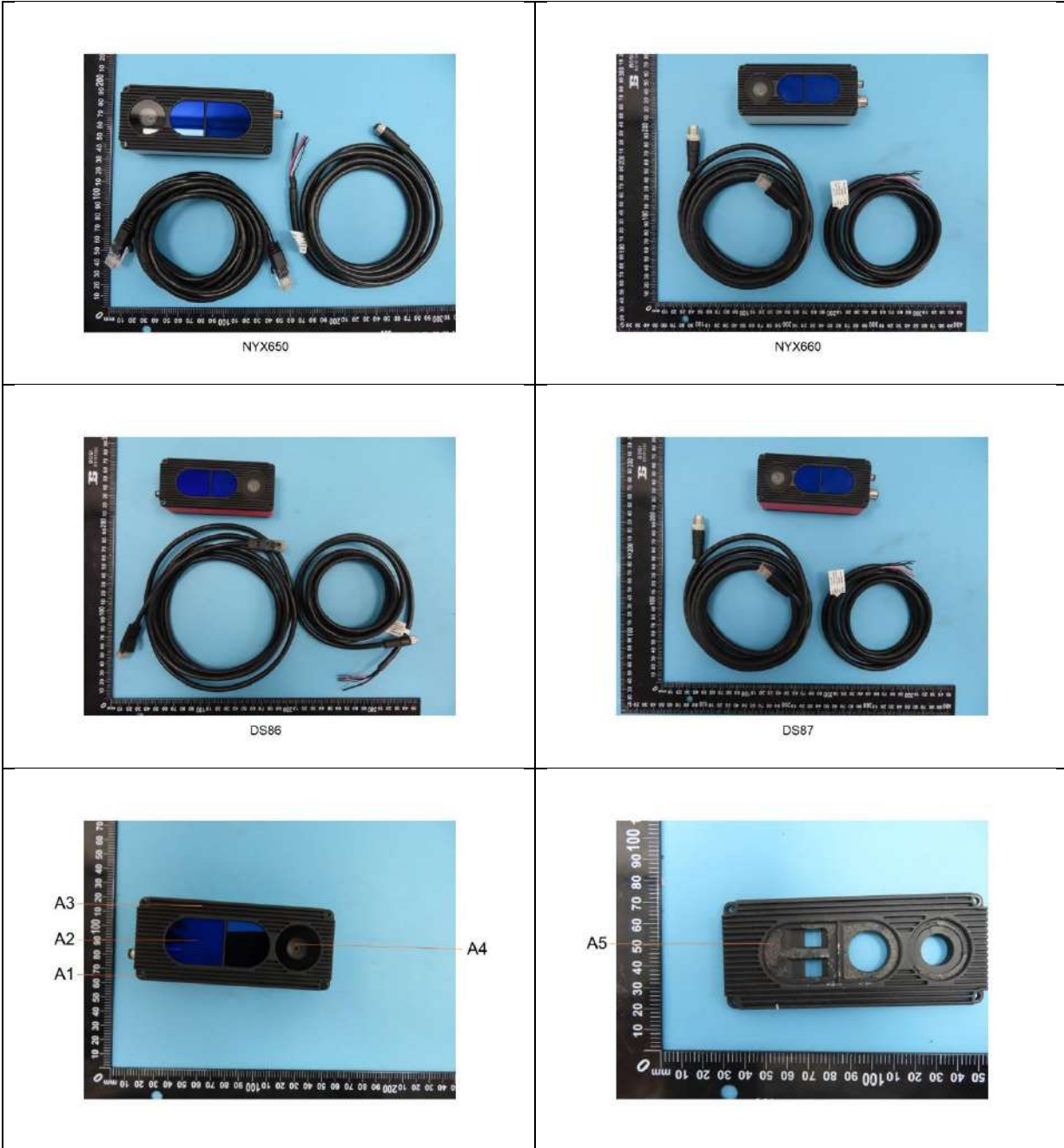
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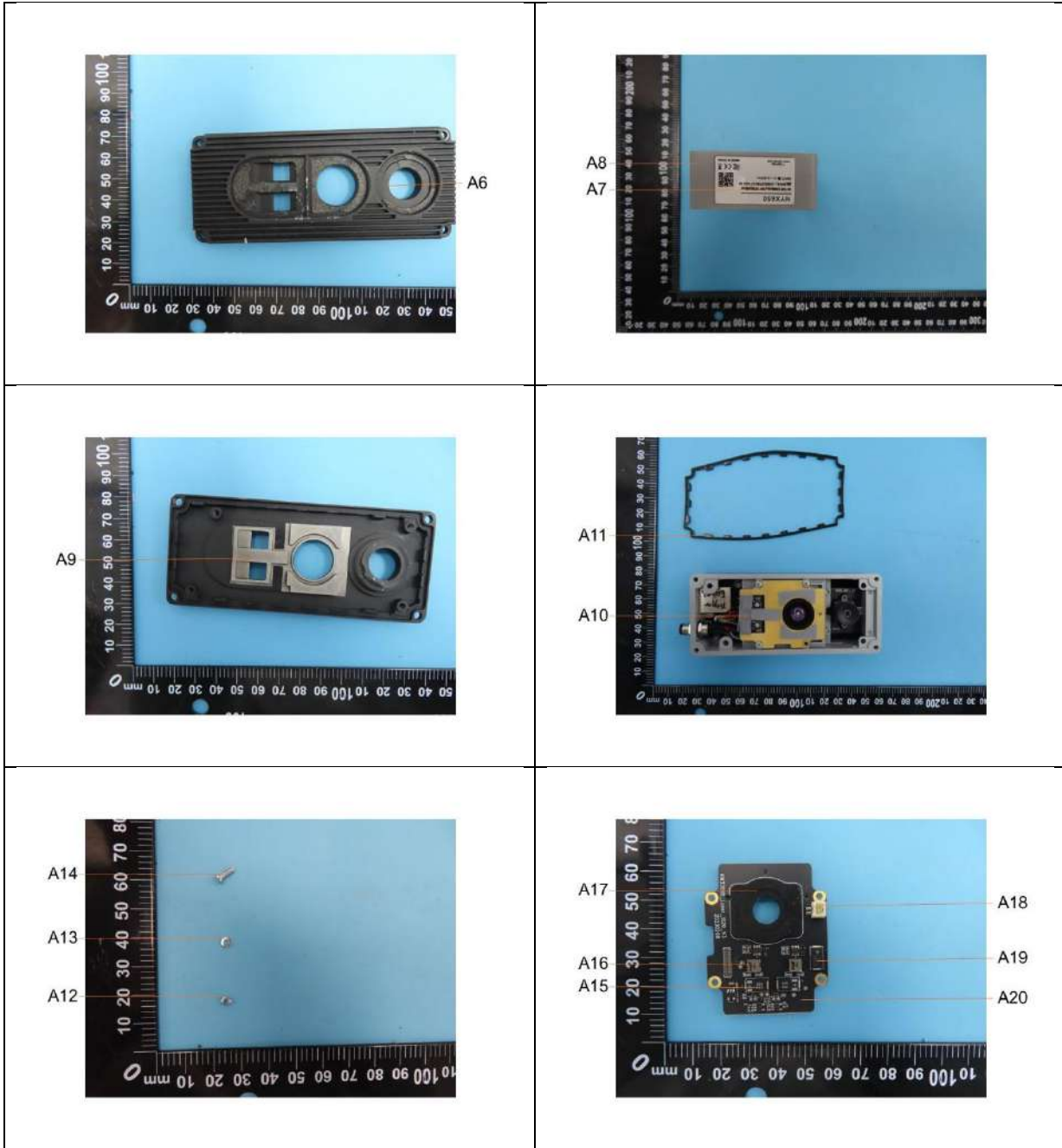
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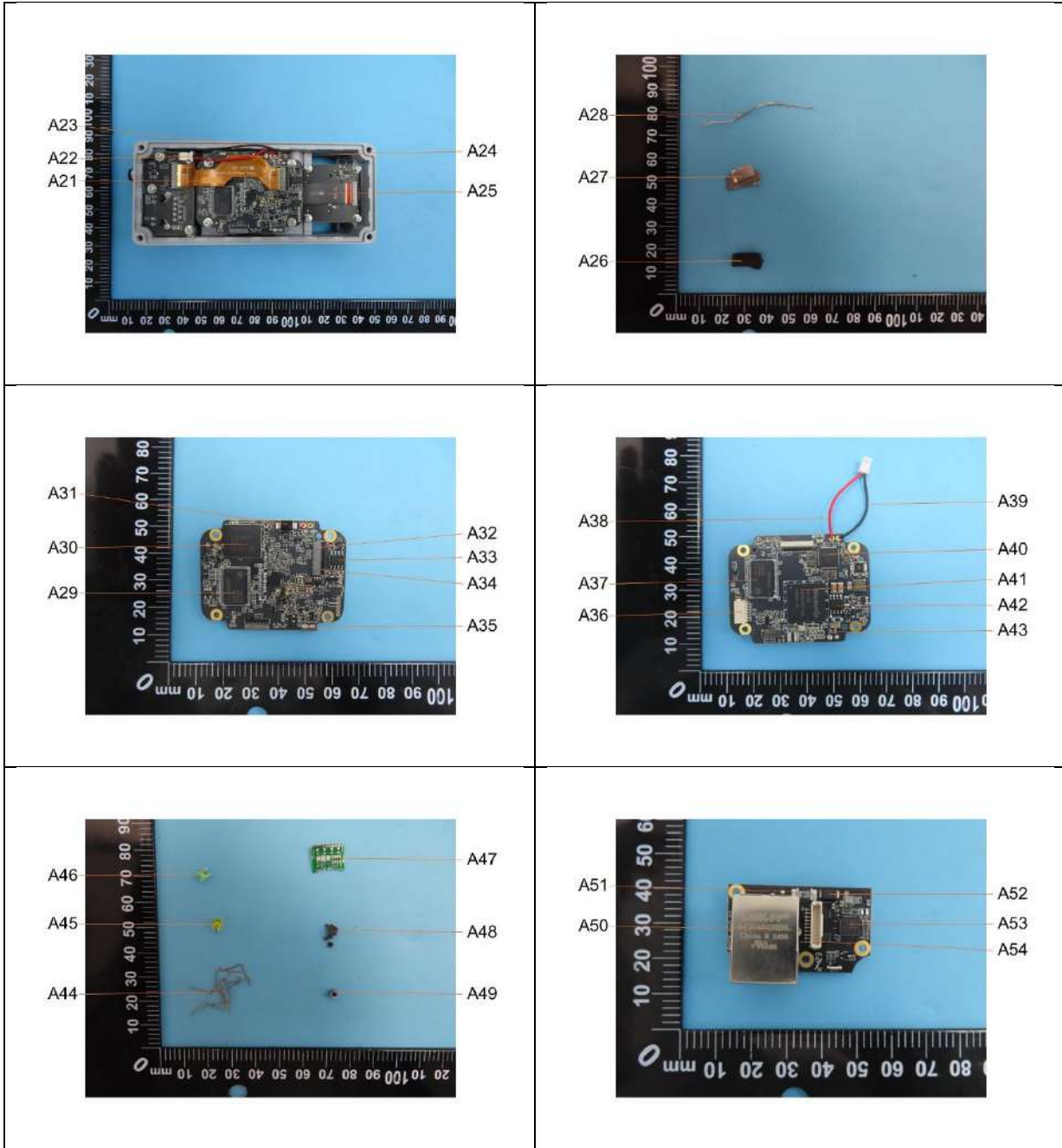
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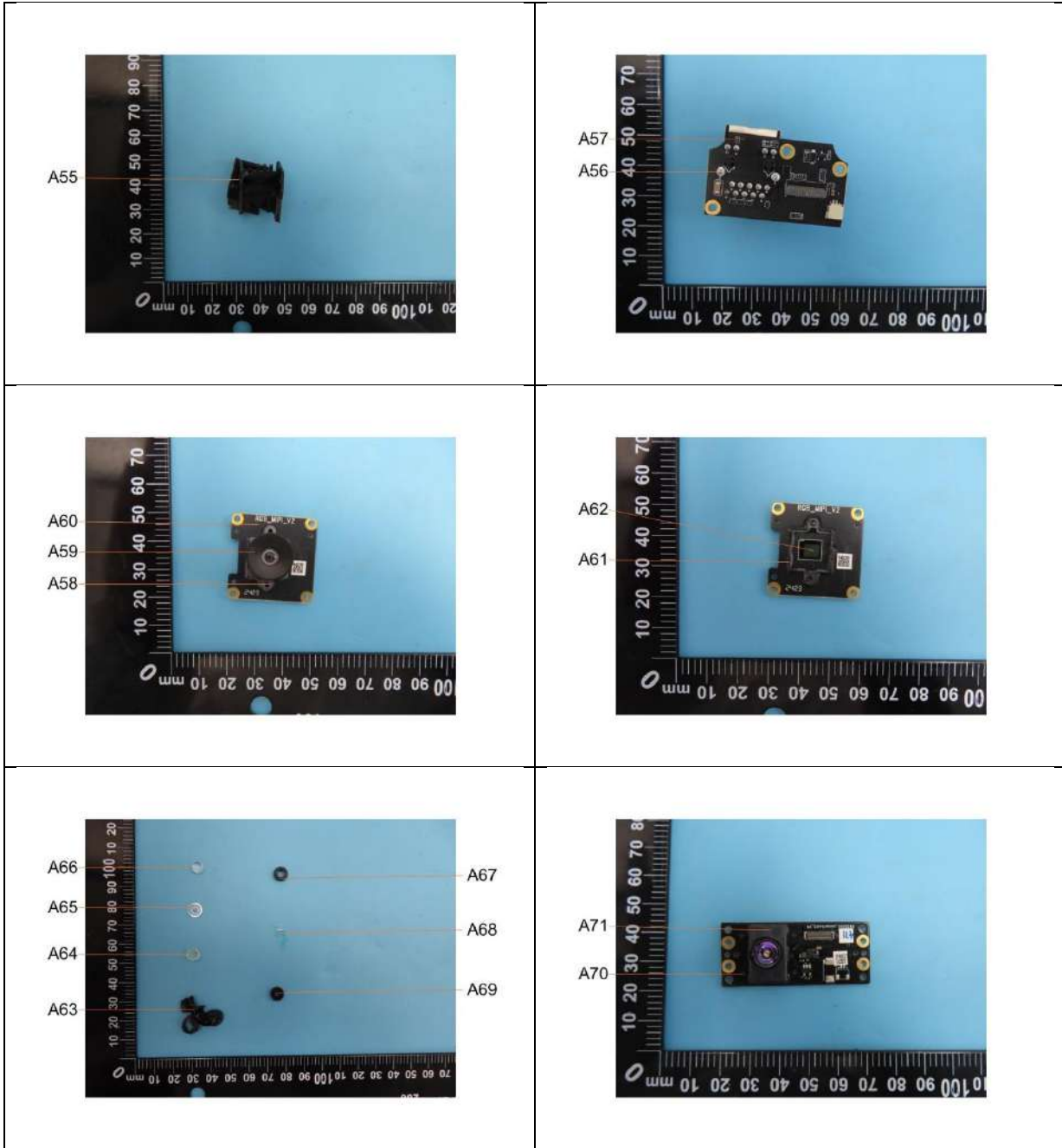
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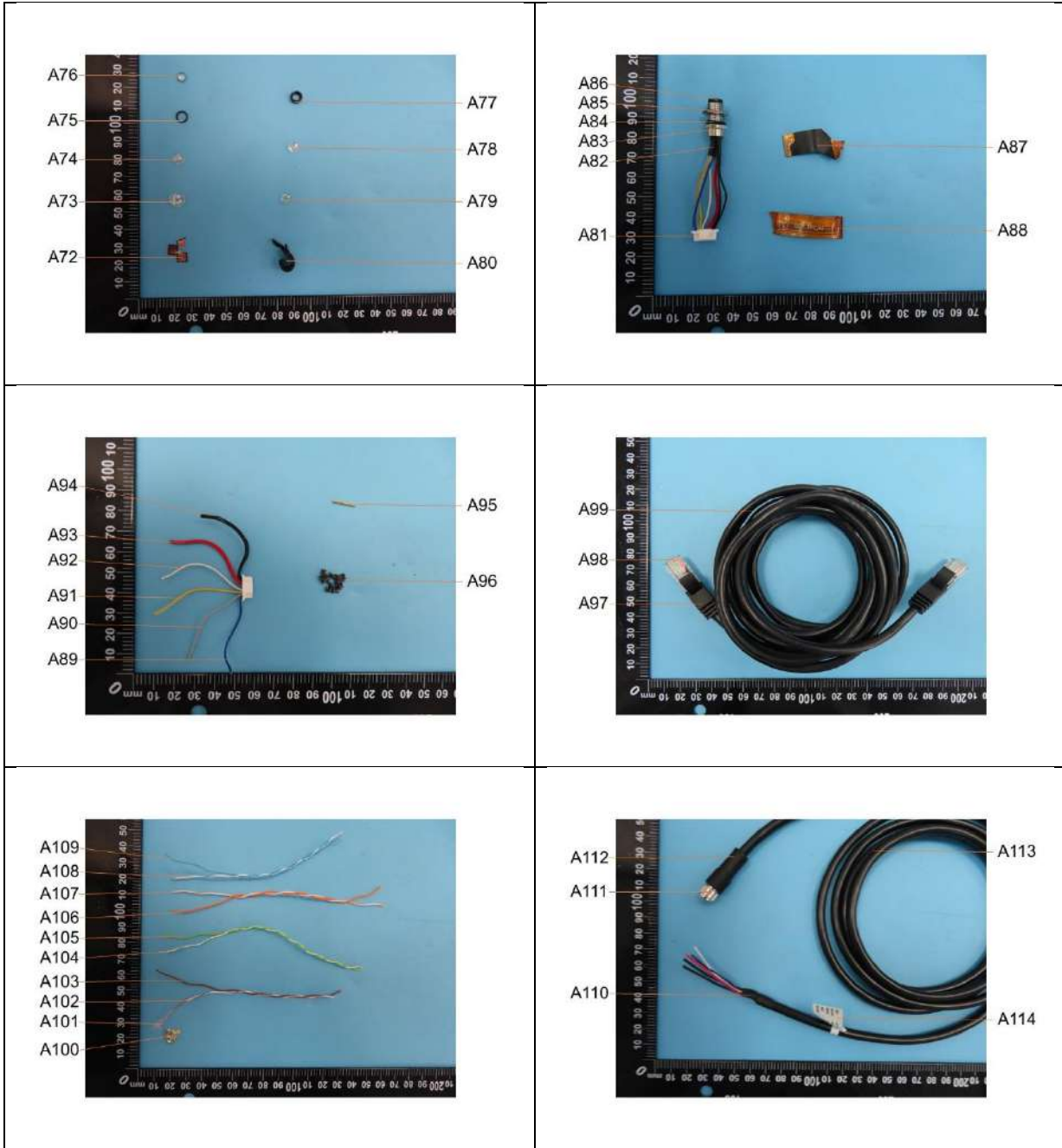
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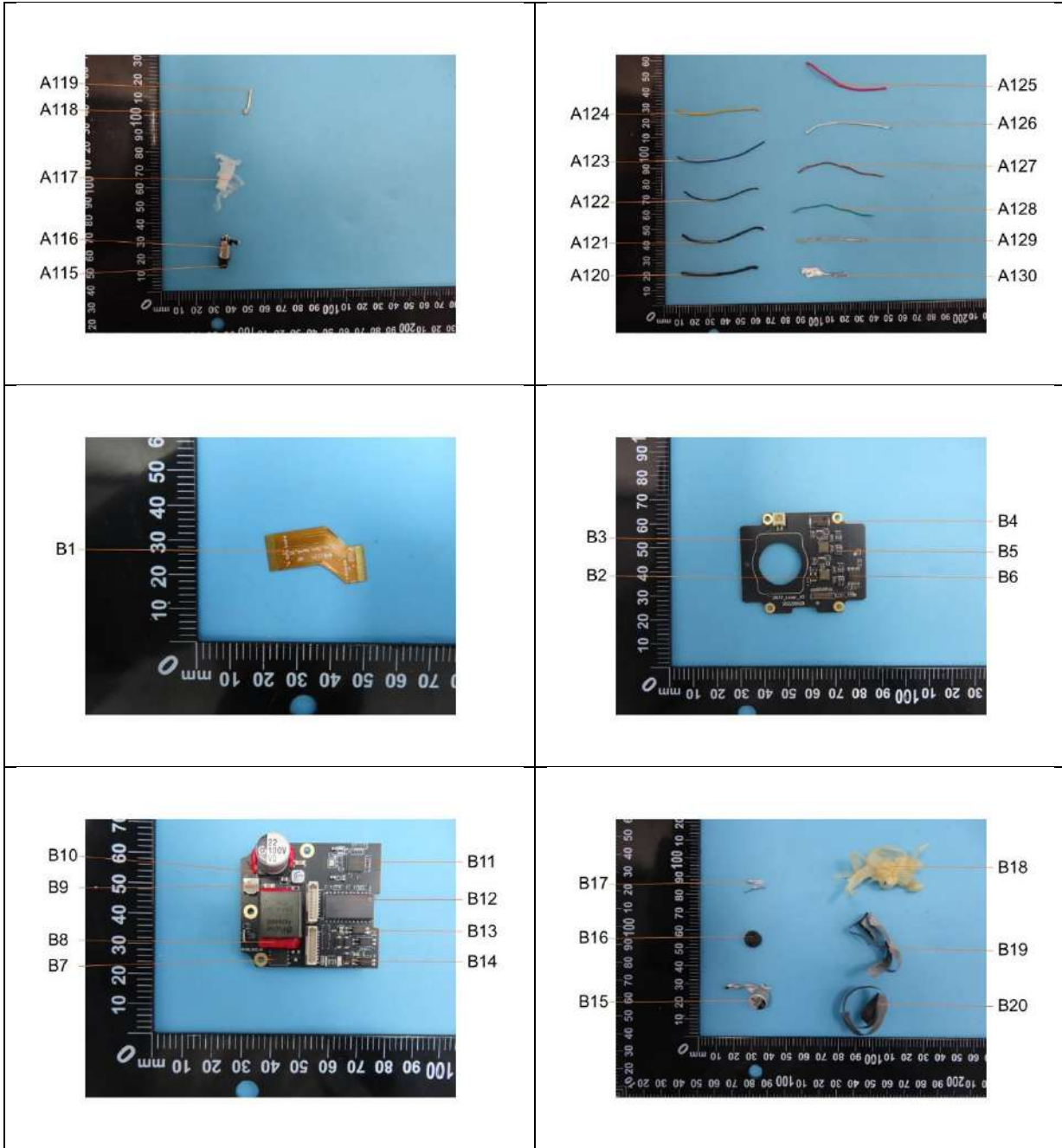
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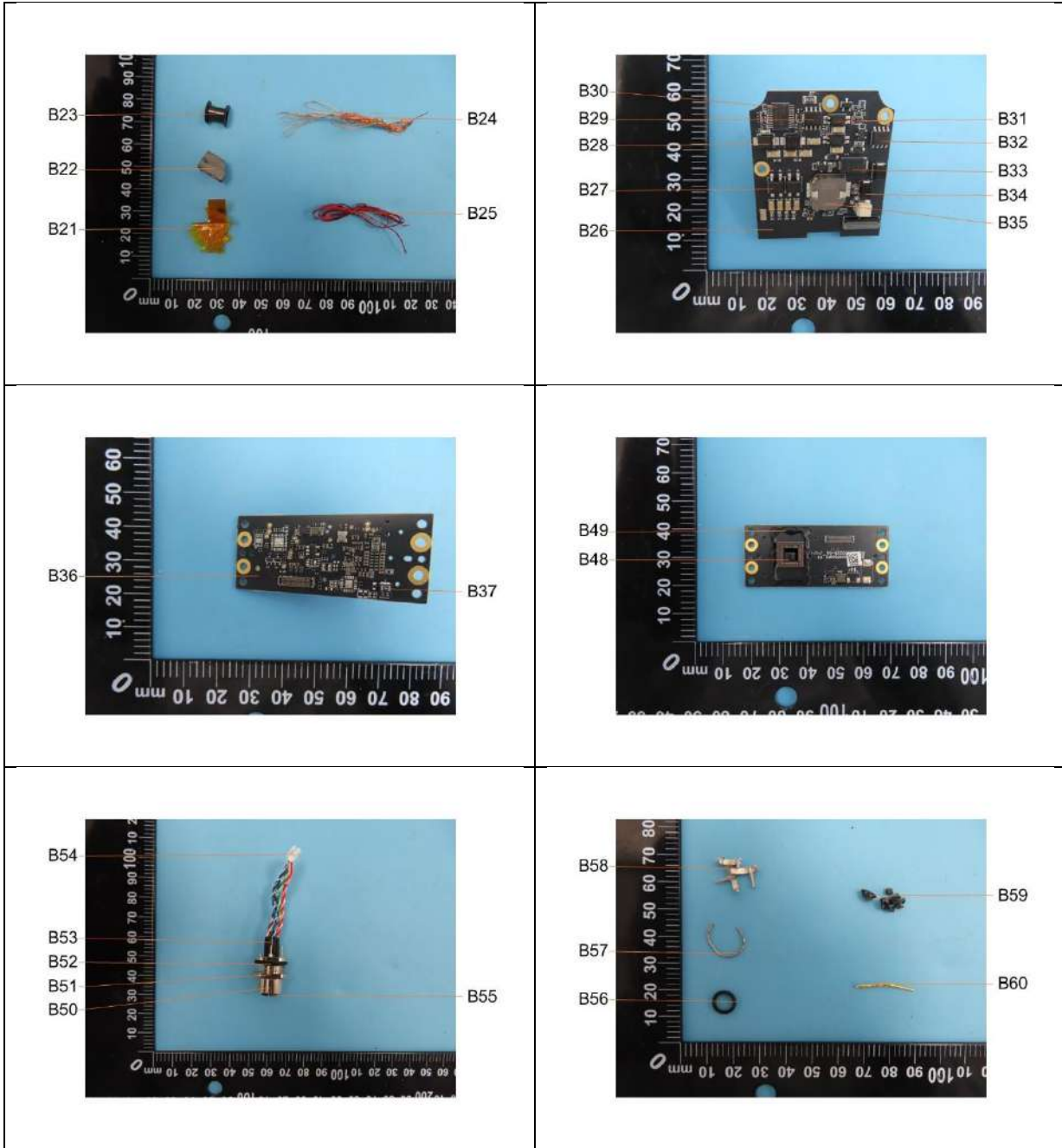
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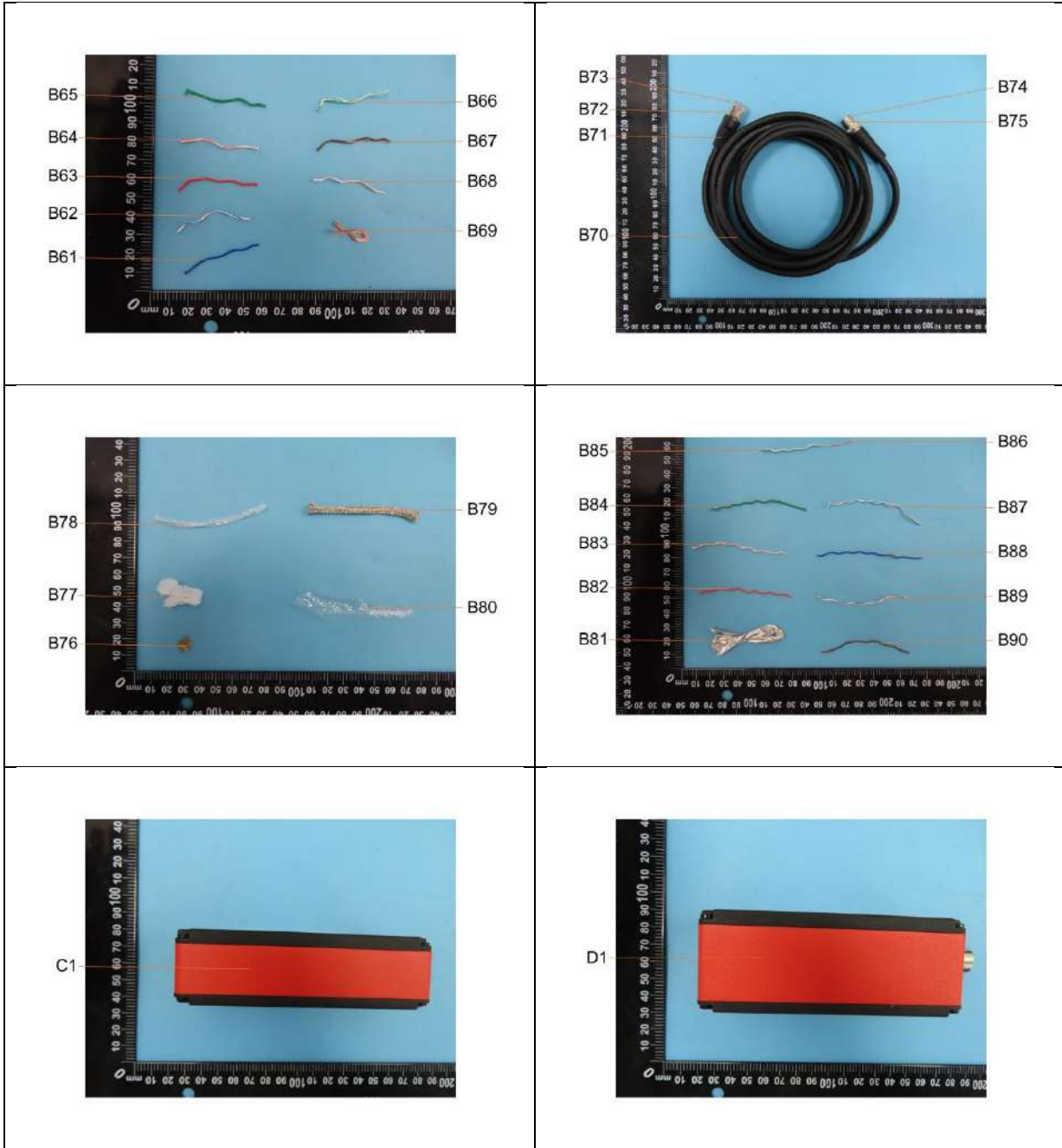
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