

## Test Report (SVHC)

No. CANEC2018971502

Date: 10 May 2021

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ASTERA LED TECHNOLOGY GMBH  
STAHLGRUBERRING 36, 81829 MUNICH, GERMANY

The following sample(s) was/were submitted and identified on behalf of the clients as : PIXEL BAR

SGS Job No. : CP20-056106 - SZ

Model No. : AX2-100

Client Ref. Info. : AX2-50

Date of Sample Received : 29 Oct 2020

Testing Period : 29 Oct 2020 - 24 Mar 2021

Test Requested : As requested by client, SVHC screening is performed according to:  
(i) Two hundred and eleven (211) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 19, 2021 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results : Please refer to next page(s).

### Summary :

According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are > 0.1% (w/w) in the articles of the submitted sample. See Sample ID 001~003, 005~007, 011, 128, 129, 132, 144, 147, 160, 183, 195, 206, 209, 210, 213, 214, 217, 218, 222, 225, 233.	See remark 2 for obligation under REACH
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Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Annie Ren

Annie Ren

Approved Signatory

scan to see the report



CANEC2018971502



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### Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:  
<http://echa.europa.eu/web/guest/candidate-list-table>  
These lists are under evaluation by ECHA and may subject to change in the future.

### 2. REACH obligation:

#### 2.1 Concerning article(s):

##### Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

##### Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<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 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

#### 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
  - (a) a substance posing human health or environmental hazards in an individual concentration of  $\geq 1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq 0.2\%$  by volume for gaseous mixtures; or
  - (b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
  - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1\%$  by weight for non-gaseous mixtures; or
  - (d) a substance for which there are Europe-wide workplace exposure limits.

3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

### Test Sample :

#### Sample Description :

#### Component list :

Specimen No.	SGS Sample ID	Description	Group Table
SN1	CAN20-189715.001	Nonmetal group	001
SN2	CAN20-189715.002	Nonmetal group(confirmation test)	002
SN3	CAN20-189715.003	Nonmetal group(confirmation test)	003
SN4	CAN20-189715.004	Nonmetal group(confirmation test)	004
SN5	CAN20-189715.005	Nonmetal group	005
SN6	CAN20-189715.006	Nonmetal group	006
SN7	CAN20-189715.007	Nonmetal group(confirmation test)	007
SN8	CAN20-189715.008	Metal group(confirmation test)	008
SN9	CAN20-189715.009	Metal group(confirmation test)	009
SN10	CAN20-189715.010	Metal group(confirmation test)	010
SN11	CAN20-189715.011	Battery	011
SN12	CAN20-189715.126	Battery	126
SN13	CAN20-189715.128	Black plastic shell	002-P85
SN14	CAN20-189715.129	Black plastic shell	002-P89



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SN15	CAN20-189715.130	Black plastic part	002-P92
SN16	CAN20-189715.131	Black block (envelopment)	002-P93
SN17	CAN20-189715.132	Green "PCB" w/ solder	002-P94
SN18	CAN20-189715.133	White plastic screw	002-P95
SN19	CAN20-189715.134	Beige plastic nut	002-P96
SN20	CAN20-189715.135	White "PCB" w/ solder	002-P97
SN21	CAN20-189715.136	Green "PCB" w/ solder	002-P98
SN22	CAN20-189715.137	Green "PCB" w/ solder	002-P99
SN23	CAN20-189715.138	Transparent glass sheet	002-P104
SN24	CAN20-189715.139	Transparent glass sheet w/ liquid	002-P106
SN25	CAN20-189715.140	Green "PCB" w/ solder	002-P108
SN26	CAN20-189715.141	Black plastic screw w/ brown printing	002-P110
SN27	CAN20-189715.142	Copper-colored metal wire w/ transparent surface	002-P119
SN28	CAN20-189715.143	Green surfaced core	002-P120
SN29	CAN20-189715.144	Black body	002-P121
SN30	CAN20-189715.145	Copper-colored mixed part	002-P124
SN31	CAN20-189715.146	Black mixed part	002-P126
SN32	CAN20-189715.147	Black body	002-P127
SN33	CAN20-189715.148	Purple body w/ multicolor printing	003-P131
SN34	CAN20-189715.149	Copper-colored metal wire w/ transparent surface	003-P136
SN35	CAN20-189715.150	Red body w/ grey printing	003-P139
SN36	CAN20-189715.151	Yellow surfaced core	003-P140
SN37	CAN20-189715.152	Black plastic part	003-P147
SN38	CAN20-189715.153	Dark grey core	003-P148
SN39	CAN20-189715.154	Yellow surfaced metal wire	003-P149
SN40	CAN20-189715.155	Copper-colored metal wire w/ transparent surface	003-P150
SN41	CAN20-189715.156	Green "PCB" w/ solder	003-P151
SN42	CAN20-189715.157	Black adhesive plastic sheet	003-P155
SN43	CAN20-189715.158	White plastic ring	003-P156
SN44	CAN20-189715.159	Green "PCB" w/ solder	003-P160
SN45	CAN20-189715.160	Black plastic (plug overmold)	003-P175
SN46	CAN20-189715.161	White plastic (plug innermold)	003-P177
SN47	CAN20-189715.162	Black plastic part	003-P184
SN48	CAN20-189715.163	Black plastic part	003-P186
SN49	CAN20-189715.164	Black plastic part	003-P189
SN50	CAN20-189715.165	White plastic part	003-P192
SN51	CAN20-189715.166	Black plastic part	003-P196



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SN52	CAN20-189715.167	Black plastic part	003-P197
SN53	CAN20-189715.168	Yellow rubber part	004-P5
SN54	CAN20-189715.169	Black rubber part	004-P16
SN55	CAN20-189715.170	Black rubber frame	004-P19
SN56	CAN20-189715.171	Grey adhesive material sheet	004-P26
SN57	CAN20-189715.172	Yellow / green plastic (wire insulation) w/ black printing	004-P35
SN58	CAN20-189715.173	Black rubber frame	004-P37
SN59	CAN20-189715.174	Brown "FPC"	004-P40
SN60	CAN20-189715.175	Black plastic (wire insulation) w/ wire	004-P42
SN61	CAN20-189715.176	Transparent adhesive plastic sheet w/ multicolour printing	004-P46
SN62	CAN20-189715.177	Black rubber part	004-P48
SN63	CAN20-189715.178	Transparent rubber shell	004-P50
SN64	CAN20-189715.179	Green plastic (wire insulation) w/ wire	004-P56
SN65	CAN20-189715.180	Blue plastic (wire insulation) w/ wire	004-P57
SN66	CAN20-189715.181	Black plastic (wire insulation) w/ wire	004-P58
SN67	CAN20-189715.182	Orange rubber part	004-P59
SN68	CAN20-189715.183	Black plastic sheet	004-P67
SN69	CAN20-189715.184	Blue plastic (wire insulation)	004-P79
SN70	CAN20-189715.185	Brown plastic (wire insulation)	004-P80
SN71	CAN20-189715.186	Black plastic (cable jacket)	004-P81
SN72	CAN20-189715.187	Grey block (envelopment)	004-P83
SN73	CAN20-189715.188	Black plastic (heat shrinkable tube) w/ grey printing	007-P30
SN74	CAN20-189715.189	Black adhesive plastic sheet w/ white printing	007-P41
SN75	CAN20-189715.190	White translucent glue	007-P47
SN76	CAN20-189715.191	Grey rubber ring	007-P53
SN77	CAN20-189715.192	Black body w/ grey printing	007-P72
SN78	CAN20-189715.193	Black body w/ grey printing	007-P75
SN79	CAN20-189715.194	Black body w/ grey printing	007-P76
SN80	CAN20-189715.195	Golden mixed part	007-P78
SN81	CAN20-189715.196	Black rubber ring	007-P86
SN82	CAN20-189715.197	Red plastic (wire insulation) w/ wire	007-P90
SN83	CAN20-189715.198	Black plastic (wire insulation) w/ wire	007-P91
SN84	CAN20-189715.199	Yellow translucent adhesive plastic sheet	007-P101
SN85	CAN20-189715.200	Black rubber ring	007-P111
SN86	CAN20-189715.201	White adhesive plastic sheet	007-P118



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SN87	CAN20-189715.202	Black plastic (heat shrinkable tube) w/ grey printing	007-P123
SN88	CAN20-189715.203	Blue body w/ brown printing	007-P133
SN89	CAN20-189715.204	Yellow body w/ grey printing	007-P134
SN90	CAN20-189715.205	Blue body w/ brown printing	007-P135
SN91	CAN20-189715.206	Black body w/ grey printing	007-P138
SN92	CAN20-189715.207	Yellow rubber ring	007-P191
SN93	CAN20-189715.208	Metal group	008 -P1,P2,P3,P4, P6,P10,P11,P 12,P13,P14,P 15,P17,P18,P 21,P31,P32,P 33
SN94	CAN20-189715.209	Golden metal nut	008-P7
SN95	CAN20-189715.210	Golden metal part	008-P25
SN96	CAN20-189715.211	Silvery metal terminal	008-P34
SN97	CAN20-189715.213	Golden metal part	009-P44
SN98	CAN20-189715.214	Golden metal part	009-P45
SN99	CAN20-189715.215	Silvery metal terminal	009-P49
SN100	CAN20-189715.216	Silvery metal pin	009-P52
SN101	CAN20-189715.217	Silvery metal pin	009-P61
SN102	CAN20-189715.218	Silvery metal terminal	009-P63
SN103	CAN20-189715.219	Silvery metal pin	009-P65
SN104	CAN20-189715.220	Metal group	010 -P113,P122,P 129,P137,P14 2,P144,P158, P165,P183,P 187,P190,P19 4
SN105	CAN20-189715.221	Silvery metal pin	010-P132
SN106	CAN20-189715.222	Silvery metal pin	010-P176
SN107	CAN20-189715.223	Silvery metal part	010-P178
SN108	CAN20-189715.224	Silvery metal terminal	010-P193
SN109	CAN20-189715.225	Silvery metal part	010-P195
SN110	CAN20-189715.226	Silvery metal wire	009-P36
SN111	CAN20-189715.227	Black surfaced metal part	009-P38



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SN112	CAN20-189715.228	Black surfaced metal part	009-P39
SN113	CAN20-189715.229	Silvery metal screw	009-P68
SN114	CAN20-189715.230	Silvery metal nut	009-P69
SN115	CAN20-189715.231	Silvery metal nut	009-P70
SN116	CAN20-189715.232	Silvery metal part	009-P71
SN117	CAN20-189715.233	Copper-colored metal wire	009-P82
SN118	CAN20-189715.234	Black surfaced metal screw	009-P87
SN119	CAN20-189715.235	Silvery metal sheet	009-P88
SN120	CAN20-189715.236	Silvery metal cover	009-P103
SN121	CAN20-189715.237	Black surfaced metal part	009-P109
SN122	CAN20-189715.238	Silvery metal nut	009-P112



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SGS Sample ID	Photo No.	Material Description
001	P8	White plastic screw
001	P9	Black plastic part
001	P20	Colorless transparent glass sheet
001	P22	White plastic frame
001	P23	Transparent plastic part
001	P24	White plastic part
001	P27	Dark grey body w/ black printing
001	P28	White "PCB" w/ solder
001	P29	White plastic frame
001	P43	Black plastic (heat shrinkable tube) w/ grey printing
001	P51	Black plastic part
001	P54	Black plastic part
001	P55	Black plastic (cable jacket) w/ grey printing
001	P60	Black plastic part
001	P62	Black plastic part
001	P64	Black plastic part
001	P66	Black plastic part
001	P73	Brown / black mixed part
001	P74	Dark grey body w/ black printing
001	P77	Green "PCB" w/ solder
002	P85	Black plastic shell
002	P89	Black plastic shell
002	P92	Black plastic part
002	P93	Black block (envelopment)



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## Test Report (SVHC)

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SGS Sample ID	Photo No.	Material Description
002	P94	Green "PCB" w/ solder
002	P95	White plastic screw
002	P96	Beige plastic nut
002	P97	White "PCB" w/ solder
002	P98	Green "PCB" w/ solder
002	P99	Green "PCB" w/ solder
002	P104	Transparent glass sheet
002	P106	Transparent glass sheet w/ liquid
002	P108	Green "PCB" w/ solder
002	P110	Black plastic screw w/ brown printing
002	P119	Copper-colored metal wire w/ transparent surface
002	P120	Green surfaced core
002	P121	Black body
002	P124	Copper-colored mixed part
002	P126	Black mixed part
002	P127	Black body
003	P131	Purple body w/ multicolor printing
003	P136	Copper-colored metal wire w/ transparent surface
003	P139	Red body w/ grey printing
003	P140	Yellow surfaced core
003	P147	Black plastic part
003	P148	Dark grey core
003	P149	Yellow surfaced metal wire
003	P150	Copper-colored metal wire w/ transparent surface



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SGS Sample ID	Photo No.	Material Description
003	P151	Green "PCB" w/ solder
003	P155	Black adhesive plastic sheet
003	P156	White plastic ring
003	P160	Green "PCB" w/ solder
003	P175	Black plastic (plug overmold)
003	P177	White plastic (plug innermold)
003	P184	Black plastic part
003	P186	Black plastic part
003	P189	Black plastic part
003	P192	White plastic part
003	P196	Black plastic part
003	P197	Black plastic part
004	P5	Yellow rubber part
004	P16	Black rubber part
004	P19	Black rubber frame
004	P26	Grey adhesive material sheet
004	P35	Yellow / green plastic (wire insulation) w/ black printing
004	P37	Black rubber frame
004	P40	Brown "FPC"
004	P42	Black plastic (wire insulation) w/ wire
004	P46	Transparent adhesive plastic sheet w/ multicolour printing
004	P48	Black rubber part
004	P50	Transparent rubber shell
004	P56	Green plastic (wire insulation) w/ wire



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SGS Sample ID	Photo No.	Material Description
004	P57	Blue plastic (wire insulation) w/ wire
004	P58	Black plastic (wire insulation) w/ wire
004	P59	Orange rubber part
004	P67	Black plastic sheet
004	P79	Blue plastic (wire insulation)
004	P80	Brown plastic (wire insulation)
004	P81	Black plastic (cable jacket)
004	P83	Grey block (envelopment)
005	P84	Black plastic shell w/ grey printing
005	P100	Brown "FPC"
005	P102	Brown "FPC"
005	P105	Black translucent adhesive plastic sheet
005	P107	White glue
005	P114	White plastic (cable jacket) w/ black printing
005	P115	White glue
005	P116	Black plastic (wire insulation) w/ wire
005	P117	Red plastic (wire insulation) w/ wire
005	P125	Black rubber cover
005	P128	Yellow translucent rubber shell
005	P130	Transparent plastic sheet
005	P141	Black plastic shell w/ golden printing
005	P143	Black rubber cover
005	P145	Brown paper sheet w/ liquid
005	P146	Yellow adhesive plastic sheet



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SGS Sample ID	Photo No.	Material Description
005	P152	Black adhesive plastic sheet
005	P153	Blue plastic shell
005	P154	Brown translucent adhesive plastic sheet
005	P157	Red paper sheet
006	P159	Brown "FPC"
006	P161	Black plastic (wire insulation) w/ grey printing
006	P162	Red plastic (wire insulation) w/ white printing
006	P163	Black plastic (wire insulation) w/ wire
006	P164	Red plastic (wire insulation) w/ wire
006	P166	Black plastic (cable jacket)
006	P167	Red plastic (wire insulation) w/ wire
006	P168	Green plastic (wire insulation) w/ wire
006	P169	Blue plastic (wire insulation) w/ wire
006	P170	White plastic (wire insulation) w/ wire
006	P171	Yellow plastic (wire insulation) w/ wire
006	P172	Black plastic (wire insulation) w/ wire
006	P173	Purple plastic shell w/ black printing
006	P179	Black plastic (cable jacket) w/ grey printing
006	P180	Brown plastic (wire insulation)
006	P181	Yellow / green plastic (wire insulation)
006	P182	Blue plastic (wire insulation)
006	P185	Yellow rubber shell
006	P188	Yellow rubber ring
007	P30	Black plastic (heat shrinkable tube) w/ grey printing



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SGS Sample ID	Photo No.	Material Description
008	P7	Golden metal nut
008	P10	Silvery metal spring
008	P11	Black surfaced metal sheet
008	P12	Silvery metal rod
008	P13	Black surfaced metal part
008	P14	Black surfaced metal screw
008	P15	Silvery metal sheet
008	P17	Black surfaced metal part
008	P18	Black surfaced metal part
008	P21	Silvery metal screw
008	P25	Golden metal part
008	P31	Silvery metal screw
008	P32	Silvery metal washer
008	P33	Silvery metal washer
008	P34	Silvery metal terminal
009	P36	Silvery metal wire
009	P38	Black surfaced metal part
009	P39	Black surfaced metal part
009	P44	Golden metal part
009	P45	Golden metal part
009	P49	Silvery metal terminal
009	P52	Silvery metal pin
009	P61	Silvery metal pin
009	P63	Silvery metal terminal



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SGS Sample ID	Photo No.	Material Description
009	P65	Silvery metal pin
009	P68	Silvery metal screw
009	P69	Silvery metal nut
009	P70	Silvery metal nut
009	P71	Silvery metal part
009	P82	Copper-colored metal wire
009	P87	Black surfaced metal screw
009	P88	Silvery metal sheet
009	P103	Silvery metal cover
009	P109	Black surfaced metal part
009	P112	Silvery metal nut
010	P113	Silvery metal sheet
010	P122	Silvery metal shell w/ red printing
010	P129	Silvery metal terminal
010	P132	Silvery metal pin
010	P137	Silvery metal sheet w/ yellow printing
010	P142	Silvery metal shell
010	P144	Grey surfaced metal sheet
010	P158	Silvery metal sheet
010	P165	Silvery metal wire
010	P176	Silvery metal pin
010	P178	Silvery metal part
010	P183	Copper-colored metal wire
010	P187	Silvery metal ring



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SGS Sample ID	Photo No.	Material Description
007	P41	Black adhesive plastic sheet w/ white printing
007	P47	White translucent glue
007	P53	Grey rubber ring
007	P72	Black body w/ grey printing
007	P75	Black body w/ grey printing
007	P76	Black body w/ grey printing
007	P78	Golden mixed part
007	P86	Black rubber ring
007	P90	Red plastic (wire insulation) w/ wire
007	P91	Black plastic (wire insulation) w/ wire
007	P101	Yellow translucent adhesive plastic sheet
007	P111	Black rubber ring
007	P118	White adhesive plastic sheet
007	P123	Black plastic (heat shrinkable tube) w/ grey printing
007	P133	Blue body w/ brown printing
007	P134	Yellow body w/ grey printing
007	P135	Blue body w/ brown printing
007	P138	Black body w/ grey printing
007	P191	Yellow rubber ring
008	P1	Black surfaced metal screw
008	P2	Black surfaced metal frame
008	P3	Black surfaced metal screw
008	P4	Grey surfaced metal screw
008	P6	Black surfaced metal part



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SGS Sample ID	Photo No.	Material Description
010	P190	Yellow surfaced metal part
010	P193	Silvery metal terminal
010	P194	Black surfaced metal screw
010	P195	Silvery metal part
011	P174	Cell
126	P198	Cell

### Test Method :

SGS In-House method- SGS-CCL-TOP-092-01, SGS-CCL-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
III	Boric acid*	-	0.607	0.010
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.494	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.494	0.010
VII	Diboron trioxide*	1303-86-2	0.342	0.010
XIX	Disodium octaborate*	12008-41-2	0.418	0.010
-	Other tested SVHC in candidate list	-	ND	-

## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	See below confirmation test result	0.100
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	See below confirmation test result	0.100
III	Boric acid*	-	0.359	0.010
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.292	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.292	0.010
VII	Diboron trioxide*	1303-86-2	0.202	0.010
VIII	[Phthalato(2-)]dioxotrilead*	69011-06-9	3.796	0.010
VIII	Dioxobis(stearato)trilead*	12578-12-0	5.666	0.010
VIII	Fatty acids, C16-18, lead salts*	91031-62-8	10.766	0.010
VIII	Lead bis(tetrafluoroborate)*	13814-96-5	1.106	0.010
VIII	Lead cyanamidate*	20837-86-9	3.471	0.010
VIII	Lead dinitrate*	10099-74-8	4.613	0.010
VIII	Lead monoxide*	1317-36-8	3.109	0.010
VIII	Lead oxide sulfate*	12036-76-9	3.666	0.010
VIII	Lead tetroxide (orange lead)*	1314-41-6	3.183	0.010



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# Test Report (SVHC)

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## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	3.850	0.010
VIII	Lead titanium zirconium oxide*	12626-81-2	4.556	0.010
VIII	Pentalead tetraoxide sulphate*	12065-90-6	3.332	0.010
VIII	Pyrochlore, antimony lead yellow*	8012-00-8	5.362	0.010
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	3.680	0.010
VIII	Tetralead trioxide sulphate*	12202-17-4	3.388	0.010
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	3.602	0.010
VIII	Trilead dioxide phosphonate*	12141-20-7	3.406	0.010
X	Lead di(acetate)*	301-04-2	4.530	0.010
XIX	Disodium octaborate*	12008-41-2	0.247	0.010
XIX	Lead*	7439-92-1	See below confirmation test result	0.010
-	Other tested SVHC in candidate list	-	ND	-

## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	See below confirmation test result	0.100
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	See below confirmation test result	0.100
VIII	N,N-dimethylformamide	68-12-2	See below confirmation test result	0.100
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-ol	71868-10-5	See below confirmation test result	0.100
III	Boric acid*	-	0.610	0.010
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.497	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.497	0.010



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## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
VII	Diboron trioxide*	1303-86-2	0.344	0.010
VIII	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.024	0.010
VIII	Dioxobis(stearato)trilead*	12578-12-0	0.036	0.010
VIII	Fatty acids, C16-18, lead salts*	91031-62-8	0.069	0.010
VIII	Lead bis(tetrafluoroborate)*	13814-96-5	0.034	0.010
VIII	Lead cyanamidate*	20837-86-9	0.022	0.010
VIII	Lead dinitrate*	10099-74-8	0.030	0.010
VIII	Lead monoxide*	1317-36-8	0.020	0.010
VIII	Lead oxide sulfate*	12036-76-9	0.024	0.010
VIII	Lead tetroxide (orange lead)*	1314-41-6	0.020	0.010
VIII	Lead titanium trioxide*	12060-00-3	0.027	0.010
VIII	Lead titanium zirconium oxide*	12626-81-2	0.031	0.010
VIII	Pentalead tetraoxide sulphate*	12065-90-6	0.021	0.010
VIII	Pyrochlore, antimony lead yellow*	8012-00-8	0.034	0.010
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.024	0.010
VIII	Tetralead trioxide sulphate*	12202-17-4	0.022	0.010
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.023	0.010
VIII	Trilead dioxide phosphonate*	12141-20-7	0.022	0.010
X	Lead di(acetate)*	301-04-2	0.029	0.010
XIX	Disodium octaborate*	12008-41-2	0.420	0.010
XIX	Lead*	7439-92-1	0.018	0.010
-	Other tested SVHC in candidate list	-	ND	-

## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	See below confirmation test result	0.100
-	Other tested SVHC in candidate list	-	ND	-



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## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	005 Concentration (%)	RL (%)
III	Boric acid*	-	3.423	0.010
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	2.785	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	2.785	0.010
VII	Diboron trioxide*	1303-86-2	1.927	0.010
XIX	Disodium octaborate*	12008-41-2	2.356	0.010
-	Other tested SVHC in candidate list	-	ND	-

## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	006 Concentration (%)	RL (%)
VIII	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.064	0.010
VIII	Dioxobis(stearato)trilead*	12578-12-0	0.096	0.010
VIII	Fatty acids, C16-18, lead salts*	91031-62-8	0.183	0.010
VIII	Lead cyanamidate*	20837-86-9	0.059	0.010
VIII	Lead dinitrate*	10099-74-8	0.078	0.010
VIII	Lead monoxide*	1317-36-8	0.053	0.010
VIII	Lead oxide sulfate*	12036-76-9	0.062	0.010
VIII	Lead tetroxide (orange lead)*	1314-41-6	0.054	0.010
VIII	Lead titanium trioxide*	12060-00-3	0.072	0.010
VIII	Lead titanium zirconium oxide*	12626-81-2	0.082	0.010
VIII	Pentalead tetraoxide sulphate*	12065-90-6	0.056	0.010
VIII	Pyrochlore, antimony lead yellow*	8012-00-8	0.091	0.010
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.062	0.010
VIII	Tetralead trioxide sulphate*	12202-17-4	0.057	0.010
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.061	0.010
VIII	Trilead dioxide phosphonate*	12141-20-7	0.058	0.010
X	Lead di(acetate)*	301-04-2	0.077	0.010



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## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	006 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.049	0.010
-	Other tested SVHC in candidate list	-	ND	-

## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	007 Concentration (%)	RL (%)
III	Boric acid*	-	0.059	0.010
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.048	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.048	0.010
VII	Diboron trioxide*	1303-86-2	0.033	0.010
VIII	Lead bis(tetrafluoroborate)*	13814-96-5	0.181	0.010
VIII	Lead cyanamidate*	20837-86-9	15.694	0.010
VIII	Lead dinitrate*	10099-74-8	>20.000	0.010
VIII	Lead monoxide*	1317-36-8	14.056	0.010
VIII	Lead oxide sulfate*	12036-76-9	16.578	0.010
VIII	Lead tetroxide (orange lead)*	1314-41-6	14.393	0.010
VIII	Lead titanium trioxide*	12060-00-3	See below confirmation test result	0.010
VIII	Lead titanium zirconium oxide*	12626-81-2	See below confirmation test result	0.010
VIII	Pyrochlore, antimony lead yellow*	8012-00-8	3.691	0.010
VIII	Silicic acid, lead salt*	11120-22-2	17.842	0.010
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	16.641	0.010
VIII	Tetralead trioxide sulphate*	12202-17-4	15.318	0.010
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	16.288	0.010
X	Lead di(acetate)*	301-04-2	>20.000	0.010
XIX	Disodium octaborate*	12008-41-2	0.040	0.010



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## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	007 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	See below confirmation test result	0.010
-	Other tested SVHC in candidate list	-	ND	-

## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	008 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.095	0.010
XIX	Lead*	7439-92-1	See below confirmation test result	0.010
-	Other tested SVHC in candidate list	-	ND	-

## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	009 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.054	0.010
XIX	Lead*	7439-92-1	See below confirmation test result	0.010
-	Other tested SVHC in candidate list	-	ND	-

## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	010 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.088	0.010
XIX	Lead*	7439-92-1	See below confirmation test result	0.010
-	Other tested SVHC in candidate list	-	ND	-

## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	011 Concentration (%)	RL (%)
I	Cobalt dichloride*	7646-79-9	5.717	0.010
III	Boric acid*	-	0.222	0.010



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## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	011 Concentration (%)	RL (%)
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.181	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.181	0.010
IV	Cobalt(II) carbonate*	513-79-1	5.237	0.010
IV	Cobalt(II) diacetate*	71-48-7	7.794	0.010
IV	Cobalt(II) dinitrate*	10141-05-6	8.055	0.010
IV	Cobalt(II) sulphate*	10124-43-3	6.824	0.010
VII	Diboron trioxide*	1303-86-2	0.125	0.010
XIX	Disodium octaborate*	12008-41-2	0.153	0.010
-	Other tested SVHC in candidate list	-	ND	-

## Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	126 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

## Confirmation Test Result:

Batch	Substance Name	CAS No.	128 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.448	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	129 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.266	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	130 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	131 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	132 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	0.195	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	133 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	134 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	134 Concentration (%)	RL (%)
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	135 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	136 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	0.063	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	137 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	0.054	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	138 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	139 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	140 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	0.071	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	141 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	142 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	143 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	143 Concentration (%)	RL (%)
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	144 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	1.196	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	145 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	146 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	147 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XIV	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.050
XIX	Lead*	7439-92-1	0.947	0.005



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	148 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	149 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	150 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	151 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	151 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	152 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	153 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	154 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	154 Concentration (%)	RL (%)
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	155 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	156 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	0.094	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.055	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	157 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	157 Concentration (%)	RL (%)
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	158 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	159 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	160 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.106	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	19.204	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050



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### Confirmation Test Result:

Batch	Substance Name	CAS No.	161 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	162 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	163 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	164 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	164 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	165 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	166 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	167 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	167 Concentration (%)	RL (%)
XXII	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	168 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	169 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	170 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	171 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	172 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	173 Concentration (%)	RL (%)



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### Confirmation Test Result:

Batch	Substance Name	CAS No.	173 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	174 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	175 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	176 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	177 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	178 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	179 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	180 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	181 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	182 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	183 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.349	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	184 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	185 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	186 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	187 Concentration (%)	RL (%)
XXII	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	188 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	189 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	190 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	0.008	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	191 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	192 Concentration (%)	RL (%)
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## Confirmation Test Result:

Batch	Substance Name	CAS No.	192 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	193 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	194 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	195 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	12.033	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	>20.000	0.005
XIX	Lead*	7439-92-1	19.260	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	196 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	0.013	0.005

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## Confirmation Test Result:

Batch	Substance Name	CAS No.	197 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	0.013	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	0.009	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	198 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	199 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	200 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	201 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	202 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	203 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	204 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	205 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	206 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	0.052	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	1.565	0.005

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### Confirmation Test Result:

Batch	Substance Name	CAS No.	207 Concentration (%)	RL (%)
VIII	Lead titanium trioxide*	12060-00-3	ND	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	208 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.029	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	209 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	2.724	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	210 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	3.050	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	211 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.014	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	213 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	2.643	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	214 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	2.536	0.005

### Confirmation Test Result:



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	215 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	216 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	217 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	1.623	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	218 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	1.787	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	219 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	220 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.028	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	221 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.031	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	222 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	2.725	0.005

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### Confirmation Test Result:

Batch	Substance Name	CAS No.	223 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.006	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	224 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	225 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	2.550	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	226 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	227 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	228 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	229 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	230 Concentration (%)	RL (%)
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## Confirmation Test Result:

Batch	Substance Name	CAS No.	230 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	231 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	232 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	233 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.132	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	234 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.008	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	235 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	236 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	237 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.031	0.005



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### Confirmation Test Result:

Batch	Substance Name	CAS No.	238 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005



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### Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
  2. RL = Reporting Limit (Test data will be shown if it  $\geq$  RL. RL is not regulatory limit.) ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
  3. \* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
  - \*\* The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
- For detail information, please refer to the SGS REACH website:  
<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>
4. RL = 0.01% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.001%, boron RL=0.005% (only for Lead bis(tetrafluoroborate)), chromium (VI) RL=0.005% (only for Pentazinc chromate octahydroxide).
  5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
  6. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1)  $\geq 0.1\%$  (w/w).
  7. Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.
  8. In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on components / material enough to test.
  9. Results & photo(s) of 011 in this report refer to 004 of test report CANEC2014471702.



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## Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.100
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.100
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.100
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.100
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.100
I	8	Cobalt dichloride*	7646-79-9	0.010
I	9	Diarsenic pentaoxide*	1303-28-2	0.010
I	10	Diarsenic trioxide*	1327-53-3	0.010
I	11	Dibutyl phthalate (DBP)	84-74-2	0.100
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	-	0.100
I	13	Lead hydrogen arsenate*	7784-40-9	0.010
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.010
I	15	Triethyl arsenate*	15606-95-8	0.010
II	16	2,4-Dinitrotoluene	121-14-2	0.100
II	17	Acrylamide	79-06-1	0.100
II	18	Anthracene oil**	90640-80-5	0.100
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.100
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.100



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Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.100
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.100
II	23	Diisobutyl phthalate	84-69-5	0.100
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.010
II	25	Lead chromate*	7758-97-6	0.010
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.010
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.100
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.100
III	29	Ammonium dichromate*	7789-09-5	0.010
III	30	Boric acid*	-	0.010
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.010
III	32	Potassium chromate*	7789-00-6	0.010
III	33	Potassium dichromate*	7778-50-9	0.010
III	34	Sodium chromate*	7775-11-3	0.010
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.010
III	36	Trichloroethylene	79-01-6	0.100
IV	37	2-Ethoxyethanol	110-80-5	0.100
IV	38	2-Methoxyethanol	109-86-4	0.100
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.010
IV	41	Cobalt(II) carbonate*	513-79-1	0.010
IV	42	Cobalt(II) diacetate*	71-48-7	0.010
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.010
IV	44	Cobalt(II) sulphate*	10124-43-3	0.010
V	45	1,2,3-trichloropropane	96-18-4	0.100
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.100
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.100
V	48	1-methyl-2-pyrrolidone	872-50-4	0.100
V	49	2-ethoxyethyl acetate	111-15-9	0.100
V	50	Hydrazine	7803-57-8, 302-01-2	0.100
V	51	Strontium chromate*	7789-06-2	0.010
VI	52	1,2-Dichloroethane	107-06-2	0.100
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.100
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.100
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.100
VI	56	Aluminosilicate Refractory Ceramic Fibres *	-	0.010
VI	57	Arsenic acid*	7778-39-4	0.010
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.100
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.100



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Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.010
VI	61	Dichromium tris(chromate) *	24613-89-6	0.010
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.100
VI	63	Lead diazide, Lead azide*	13424-46-9	0.010
VI	64	Lead dipicrate*	6477-64-1	0.010
VI	65	Lead styphnate*	15245-44-0	0.010
VI	66	N,N-dimethylacetamide	127-19-5	0.100
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.010
VI	68	Phenolphthalein	77-09-8	0.100
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.010
VI	70	Trilead diarsenate*	3687-31-8	0.010
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.010
VII	72	[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	0.100
VII	73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.100
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.100
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.100
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.100
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.100
VII	78	Diboron trioxide*	1303-86-2	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.100
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.010
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.100
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.100
VII	83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.100
VII	84	$\beta$ -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	0.100
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.010
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.100
VIII	87	1,2-Diethoxyethane	629-14-1	0.100
VIII	88	1-Bromopropane	106-94-5	0.100
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.100
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.100
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.100
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.100
VIII	93	4-Aminoazobenzene	60-09-3	0.100
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.100
VIII	95	4-Nonylphenol, branched and linear	-	0.100
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.100
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.010



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### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.100
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.100
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.100
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.100
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.100
VIII	103	Diethyl sulphate	64-67-5	0.100
VIII	104	Diisopentylphthalate	605-50-5	0.100
VIII	105	Dimethyl sulphate	77-78-1	0.100
VIII	106	Dinoseb	88-85-7	0.100
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.010
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.010
VIII	109	Furan	110-00-9	0.100
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.100
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.100
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.100
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.010
VIII	114	Lead cyanamidate*	20837-86-9	0.010
VIII	115	Lead dinitrate*	10099-74-8	0.010
VIII	116	Lead monoxide*	1317-36-8	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.010
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.010
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.100
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.100
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.100
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.100
VIII	126	o-Aminoazotoluene	97-56-3	0.100
VIII	127	o-Toluidine	95-53-4	0.100
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.100
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.010
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.010
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.010
VIII	132	Silicic acid, lead salt*	11120-22-2	0.010
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.010
VIII	134	Tetraethyllead*	78-00-2	0.010
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.010
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.100
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.010



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## Appendix

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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.010
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.100
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.100
IX	141	Cadmium oxide*	1306-19-0	0.010
IX	142	Cadmium*	7440-43-9	0.010
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.100
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.100
X	145	Cadmium sulphide*	1306-23-6	0.010
X	146	Diethyl phthalate	84-75-3	0.100
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.100
X	148	Disodium 4-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	0.100
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.100
X	150	Lead di(acetate)*	301-04-2	0.010
X	151	Triethyl phosphate	25155-23-1	0.100
XI	152	1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear	68515-50-4	0.100
XI	153	Cadmium chloride*	10108-64-2	0.010
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.010
XI	155	Sodium peroxometaborate*	7632-04-4	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.100
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.100
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	0.100
XII	159	Cadmium fluoride*	7790-79-6	0.010
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.010
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.100
XIII	162	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	-	0.100
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.100
XIV	164	1,3-propanesultone	1120-71-4	0.100
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.100
XIV	167	Nitrobenzene	98-95-3	0.100
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.100
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.100



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### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.100
XVI	171	4-Heptylphenol, branched and linear	-	0.100
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.100
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.100
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.100
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.100
XVIII	176	Benz[a]anthracene	56-55-3	0.100
XVIII	177	Cadmium nitrate*	10325-94-7	0.010
XVIII	178	Cadmium carbonate*	513-78-0	0.010
XVIII	179	Cadmium hydroxide*	21041-95-2	0.010
XVIII	180	Chrysene	218-01-9	0.100
XVIII	181	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]	-	0.100
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.100
XIX	183	Benzo[ghi]perylene	191-24-2	0.100
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.100
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.100
XIX	186	Disodium octaborate*	12008-41-2	0.010
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.100



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Batch	No.	Substance Name	CAS No.	RL (%)
XIX	188	Ethylenediamine	107-15-3	0.100
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.100
XIX	191	Terphenyl hydrogenated	61788-32-7	0.100
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.100
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.100
XX	194	Benzo[k]fluoranthene	207-08-9	0.100
XX	195	Fluoranthene	206-44-0	0.100
XX	196	Phenanthrene	85-01-8	0.100
XX	197	Pyrene	129-00-0	0.100
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.100
XXI	199	2-methoxyethyl acetate	110-49-6	0.100
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.100
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.100
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.100
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.100
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050



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#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XXIII	206	1-vinylimidazole	1072-63-5	0.100
XXIII	207	2-methylimidazole	693-98-1	0.100
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.100
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.100
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.100
XXIV	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.100



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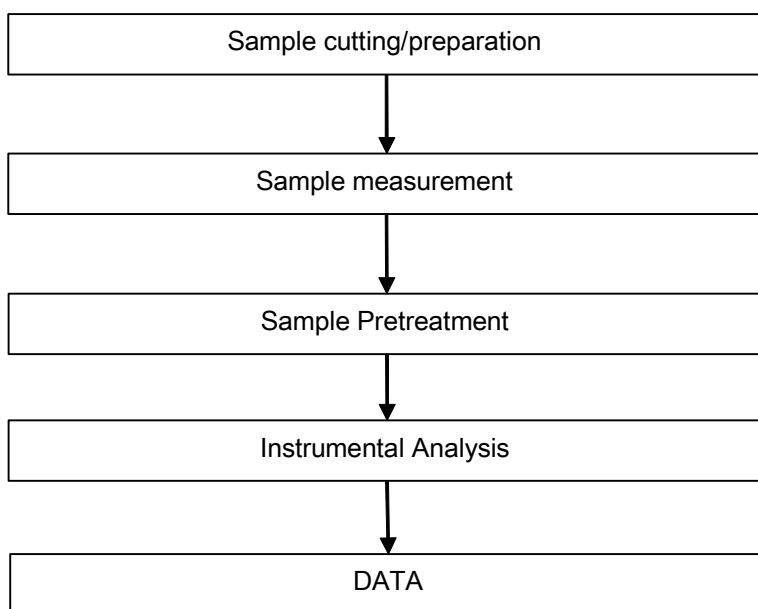
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### SVHC Testing Flow Chart



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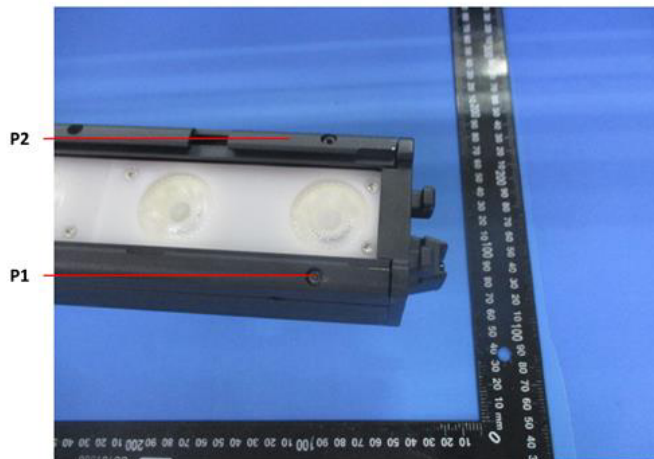
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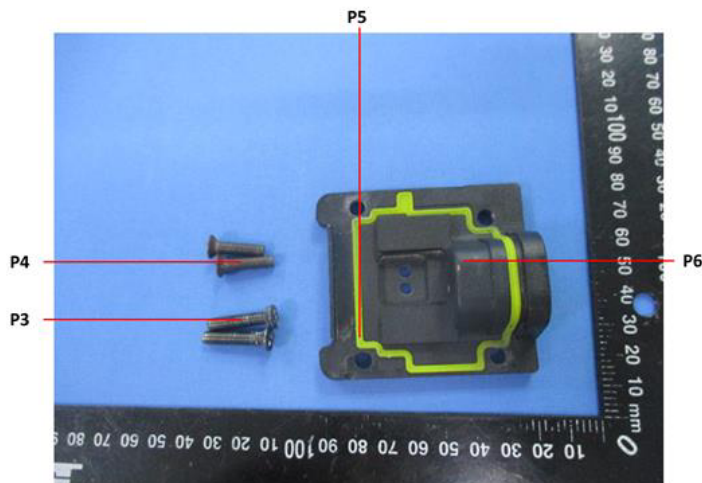
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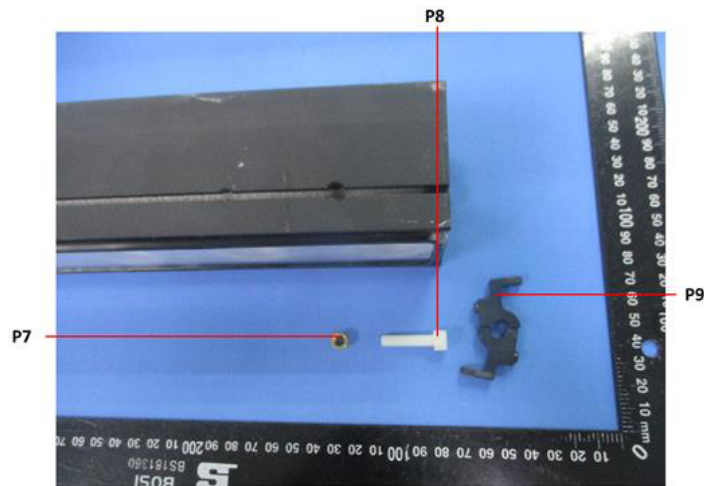
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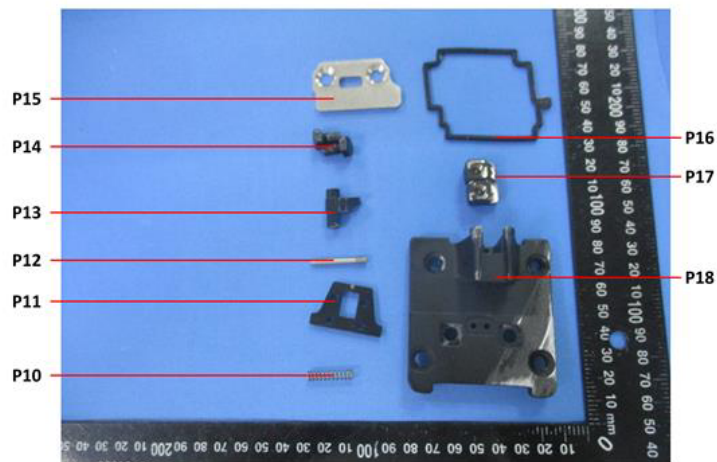
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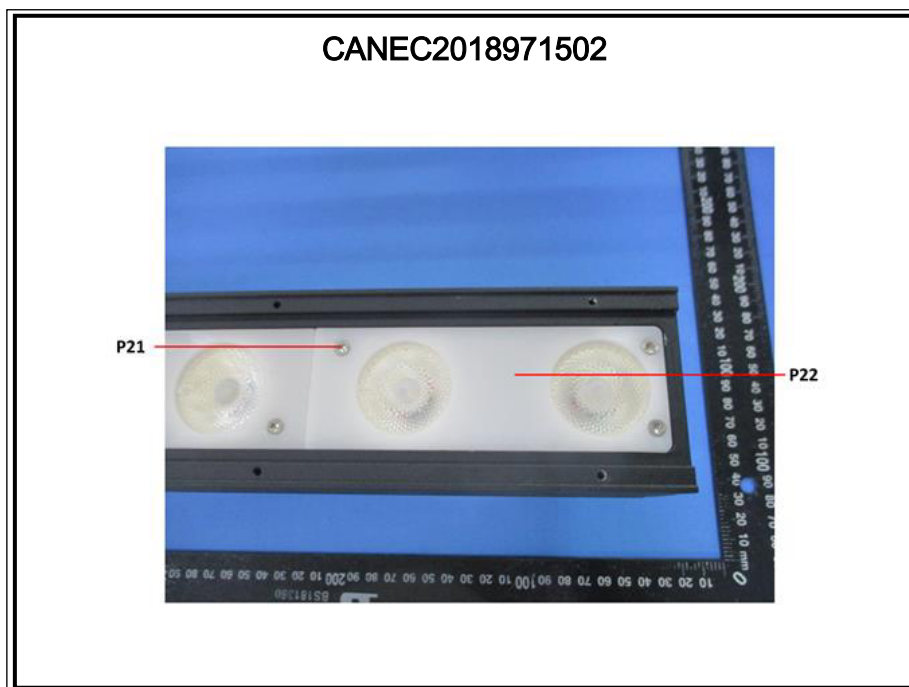
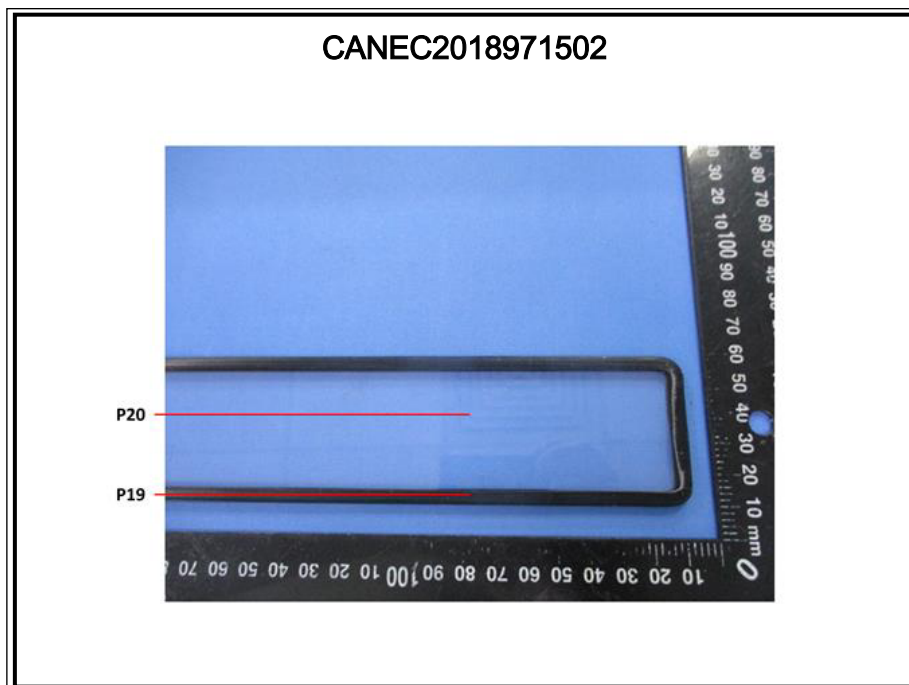
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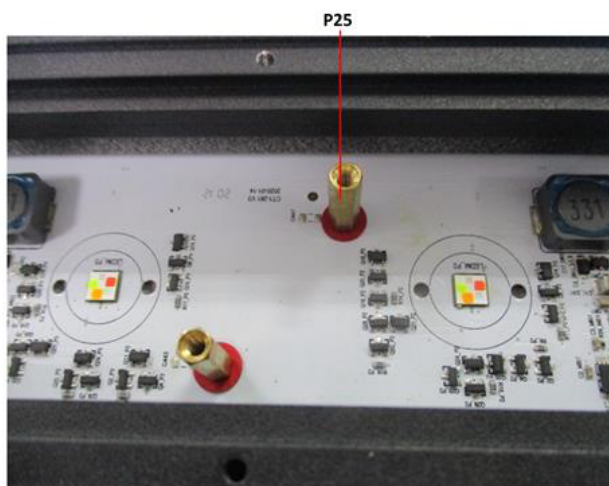


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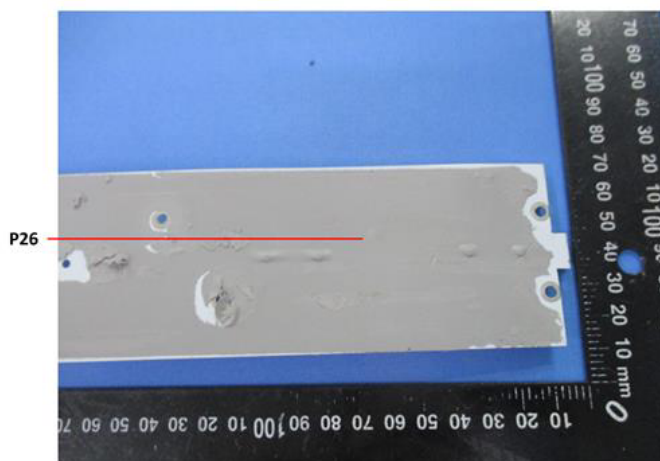




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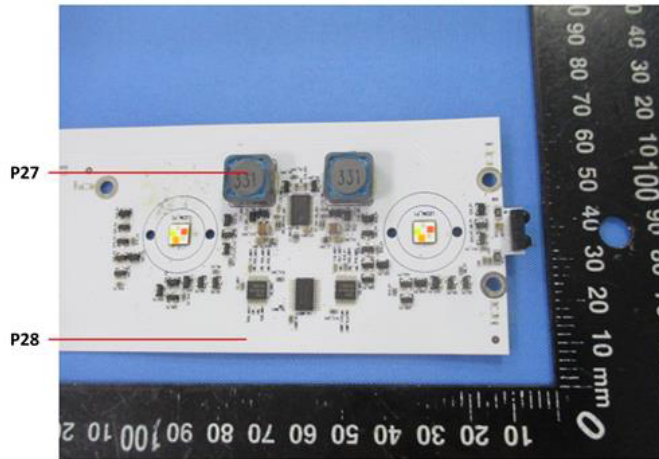
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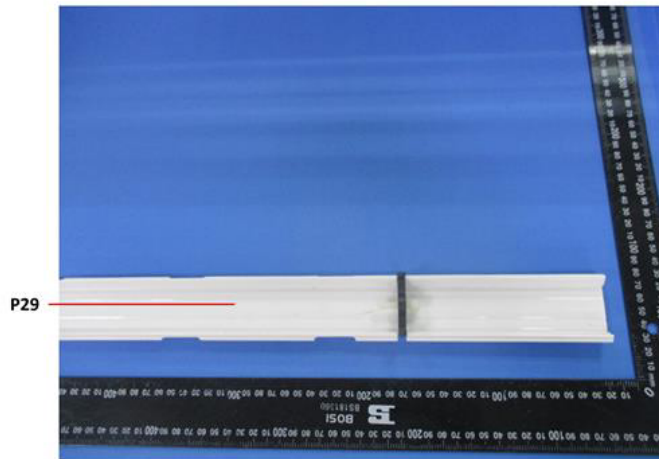
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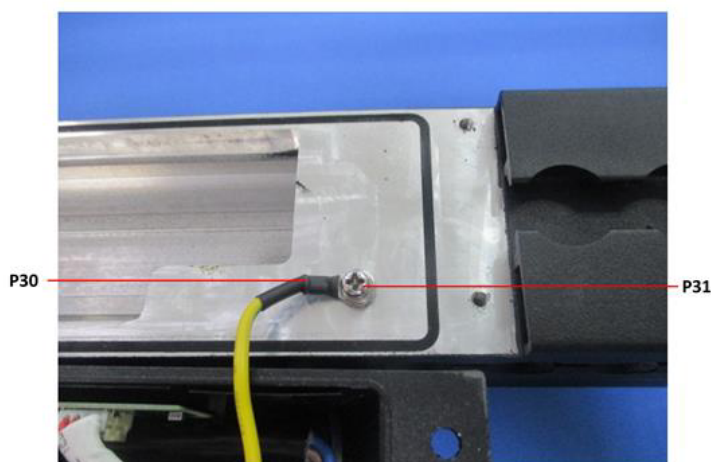
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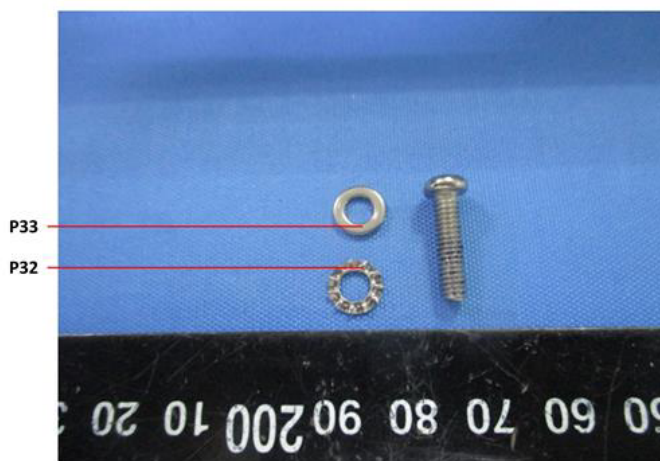
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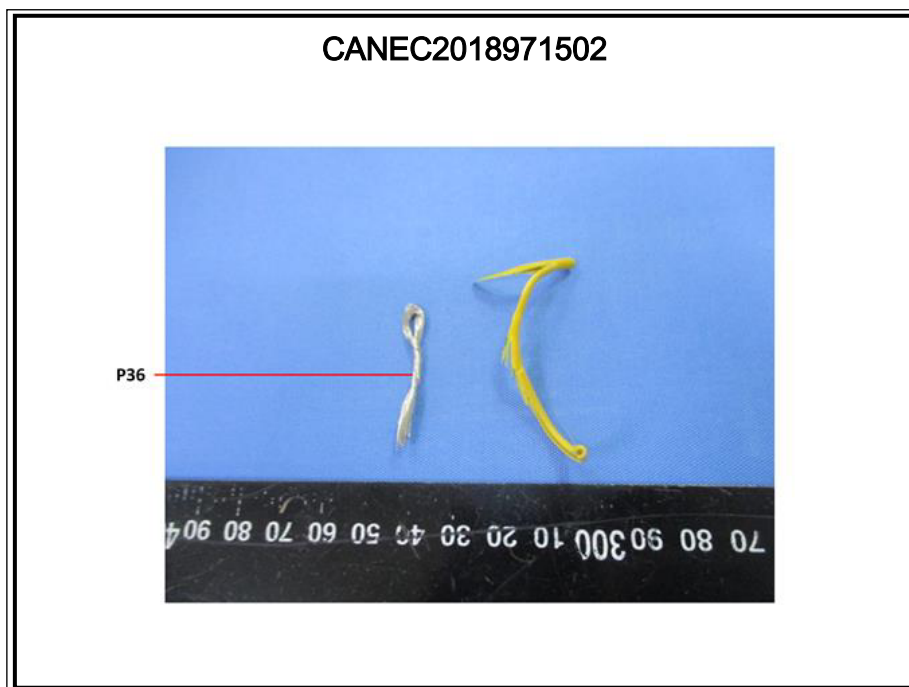
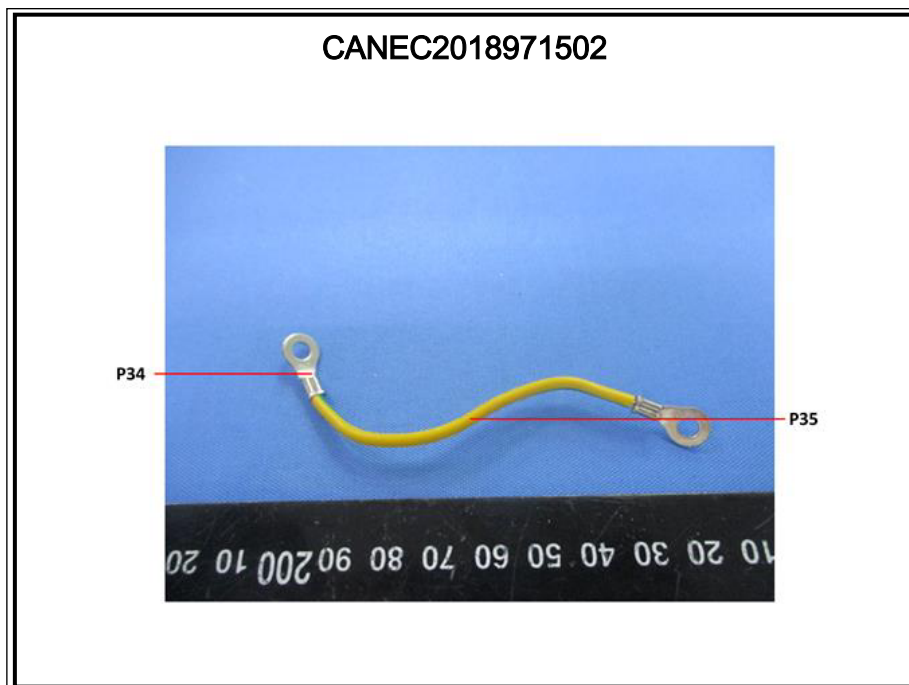


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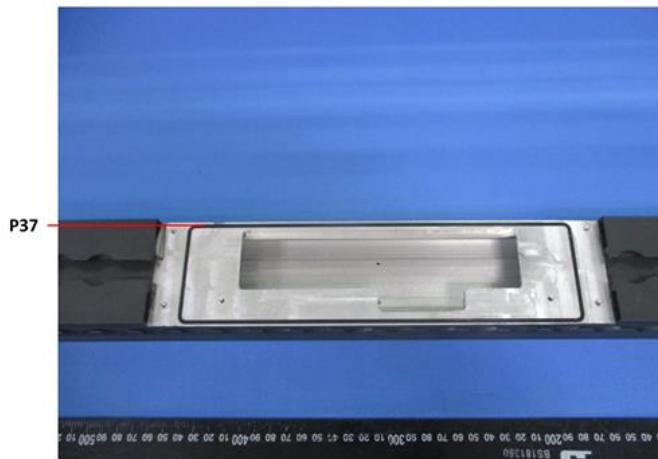
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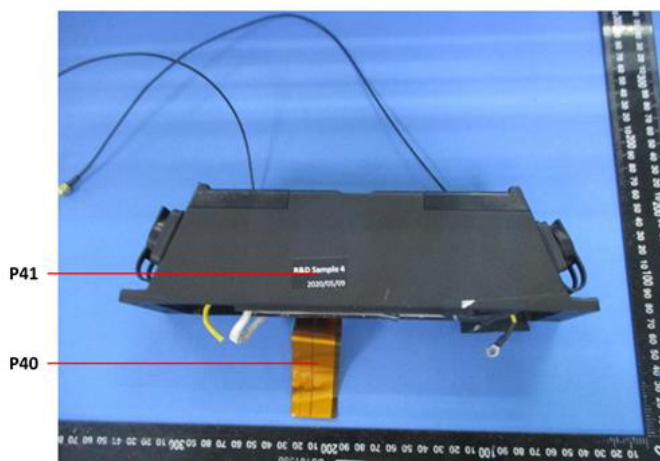
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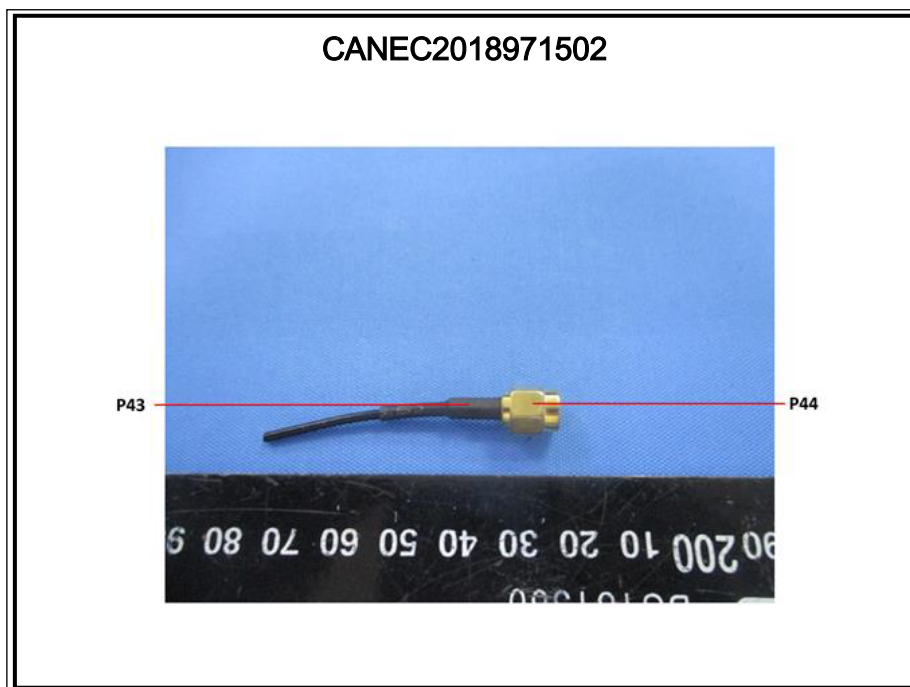
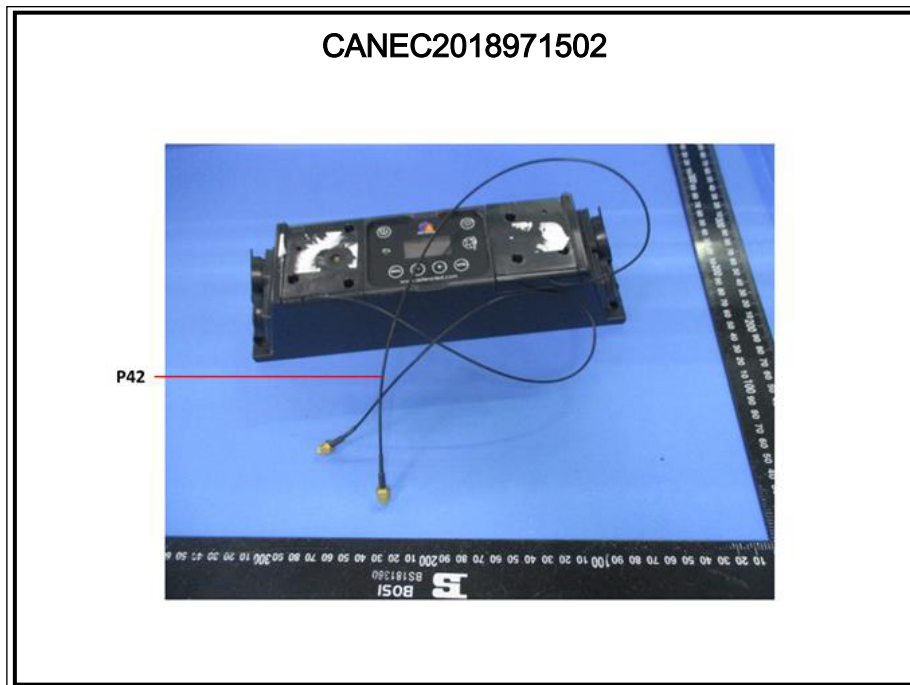
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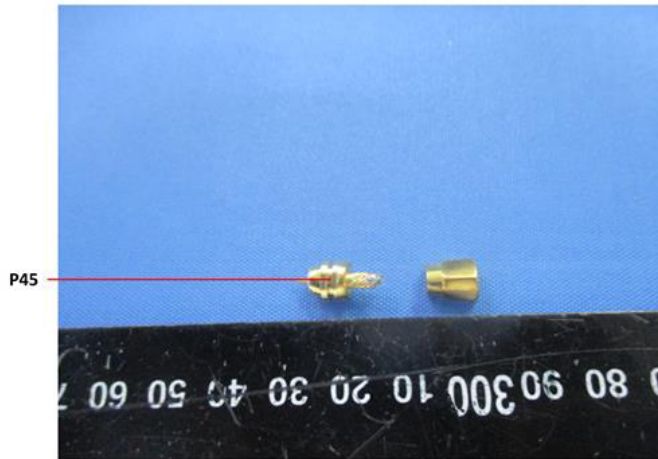
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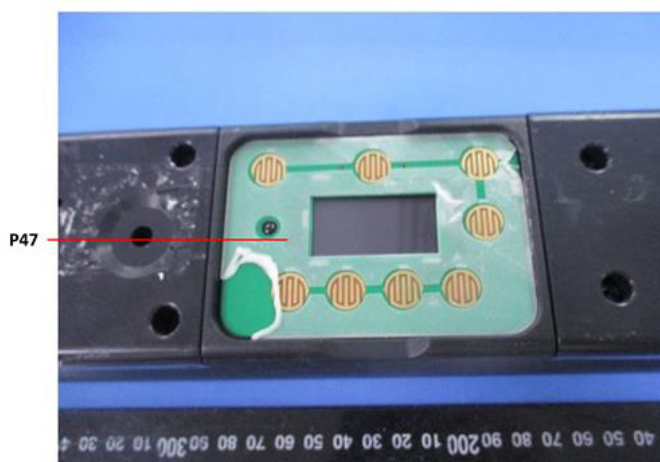
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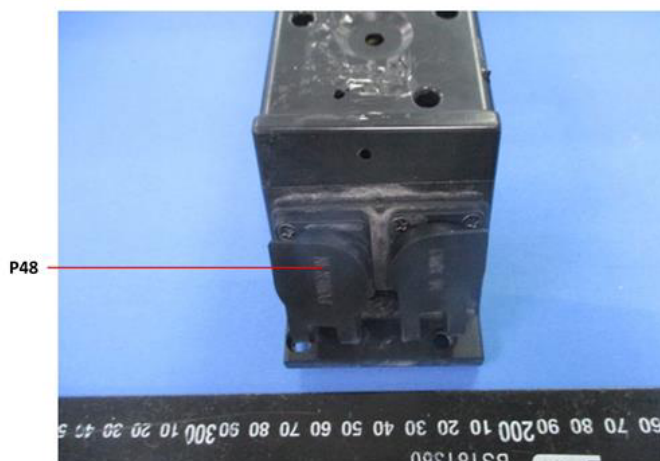
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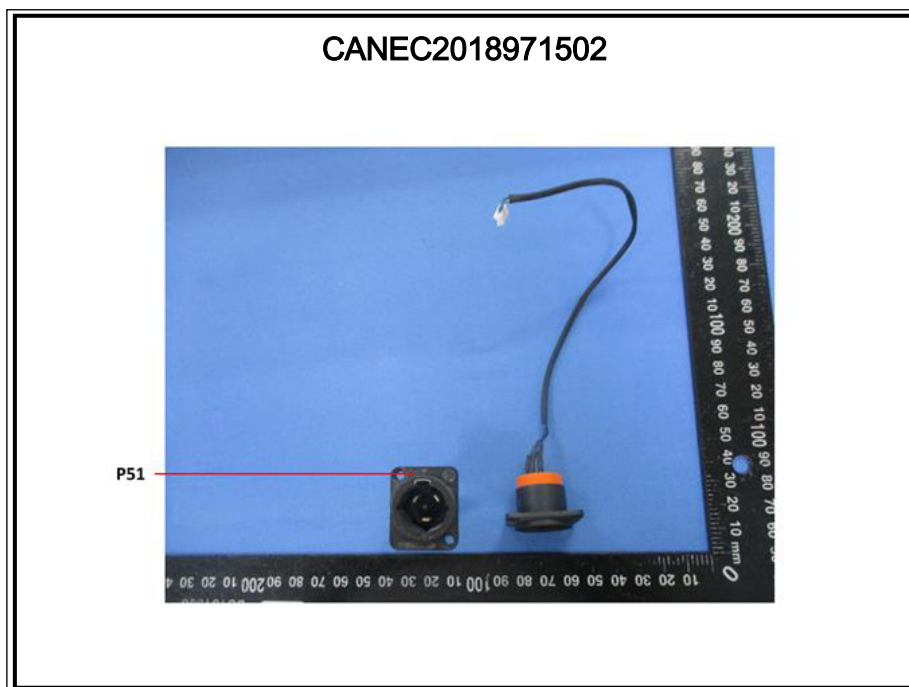
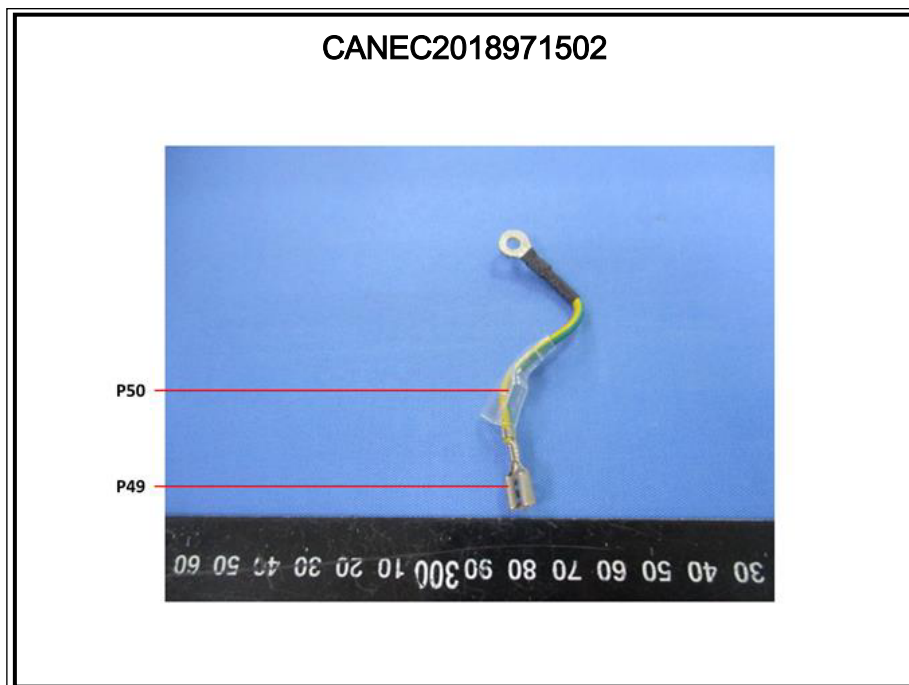
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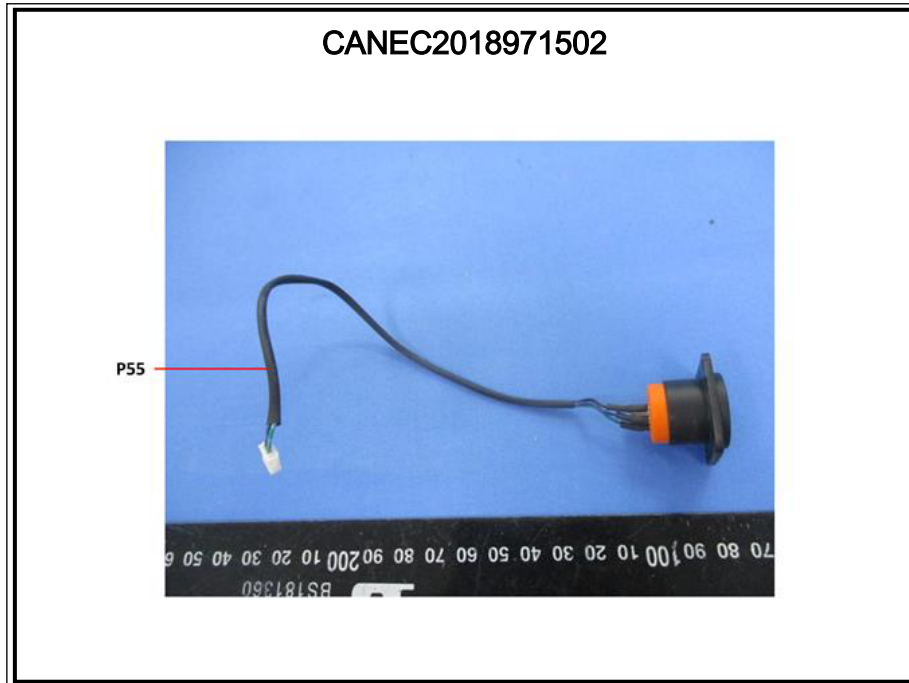


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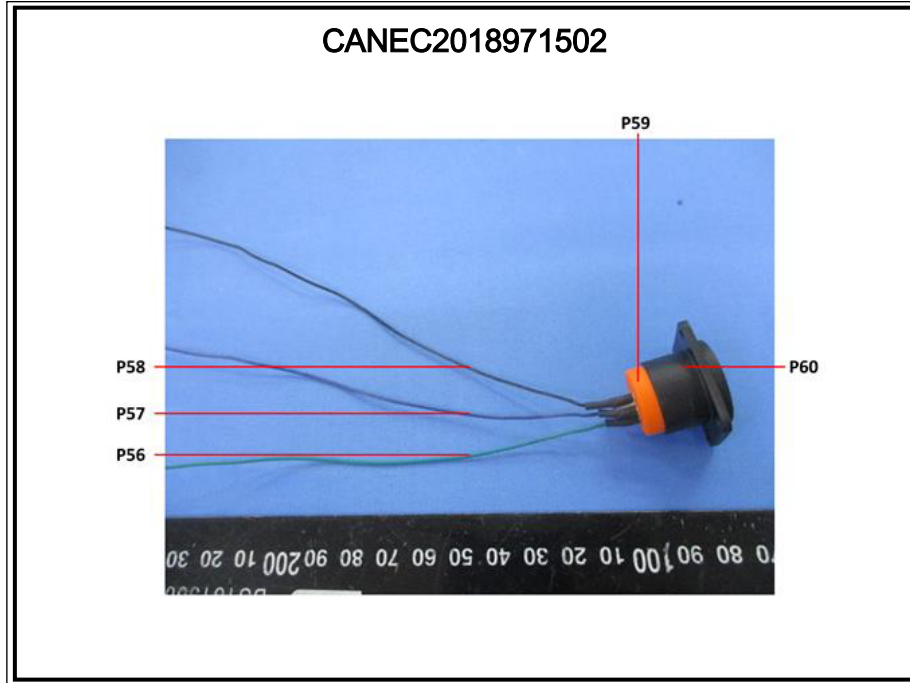
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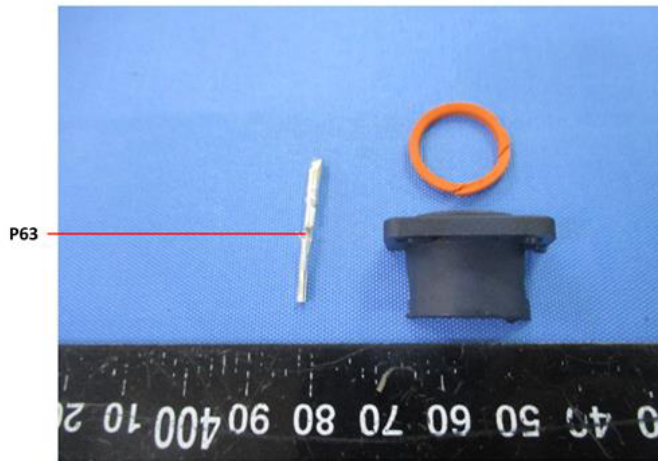
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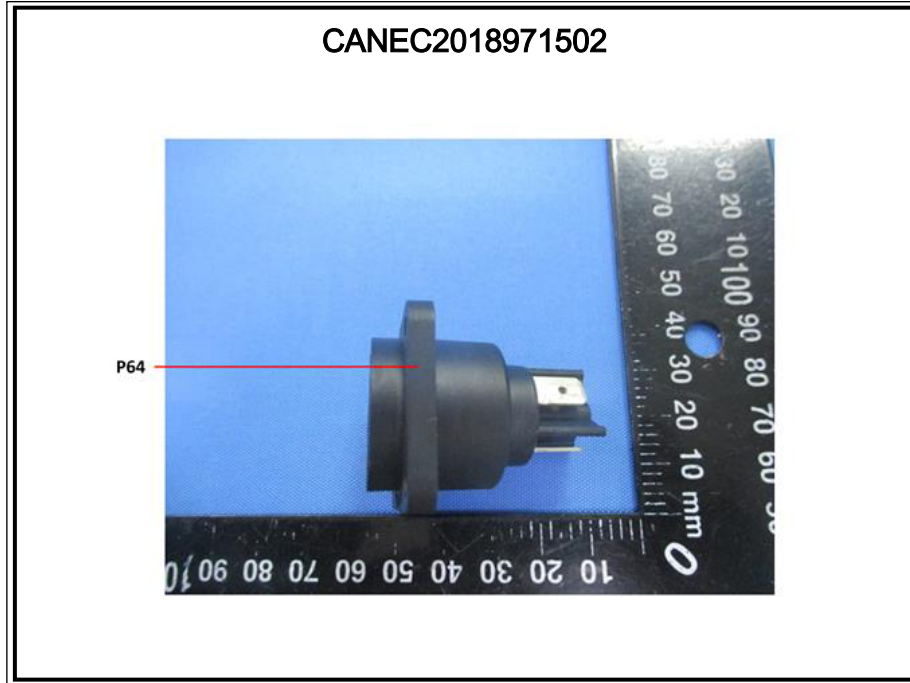
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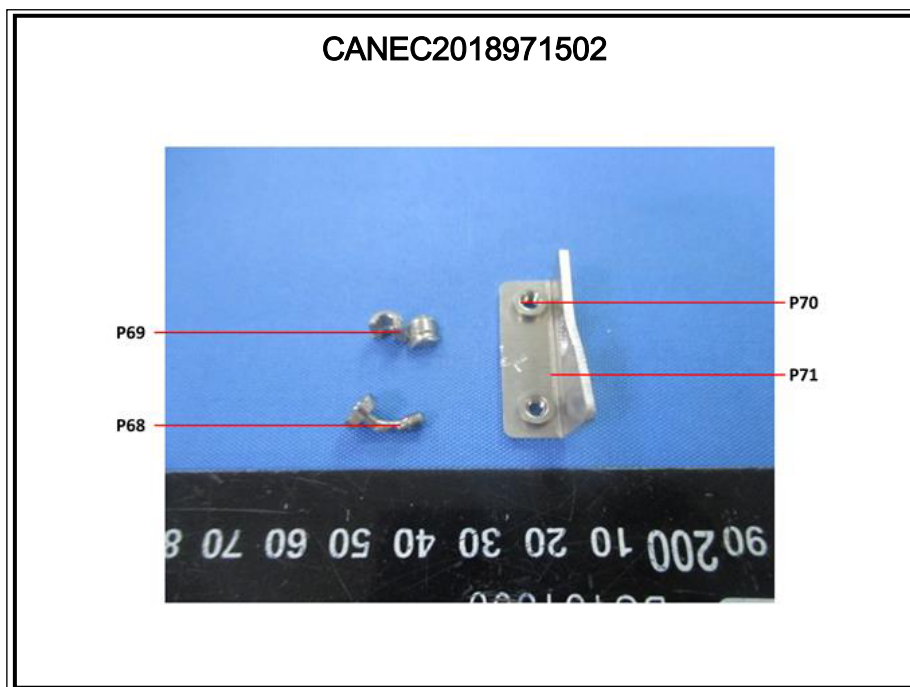
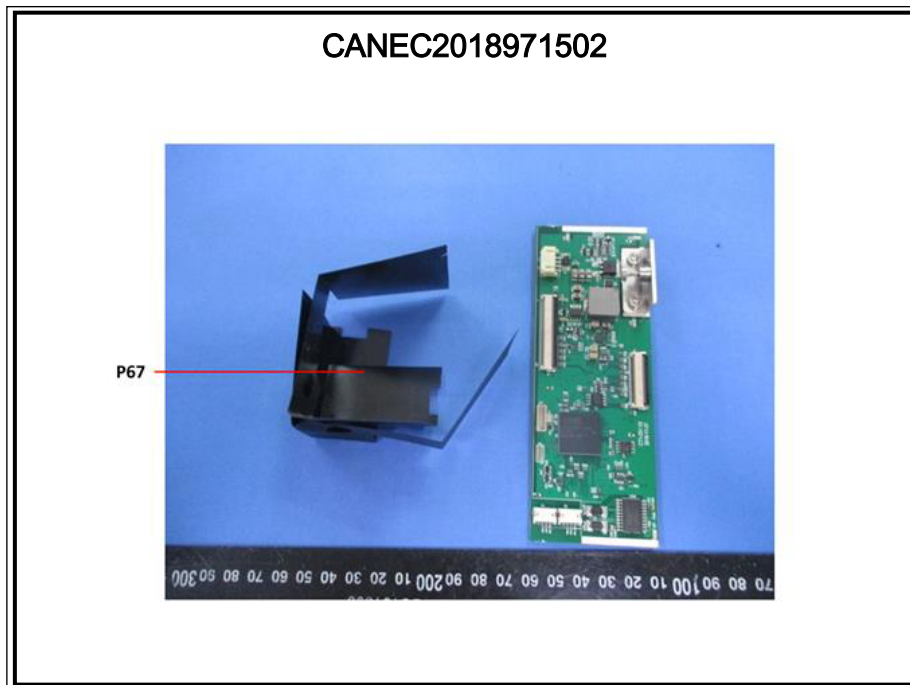
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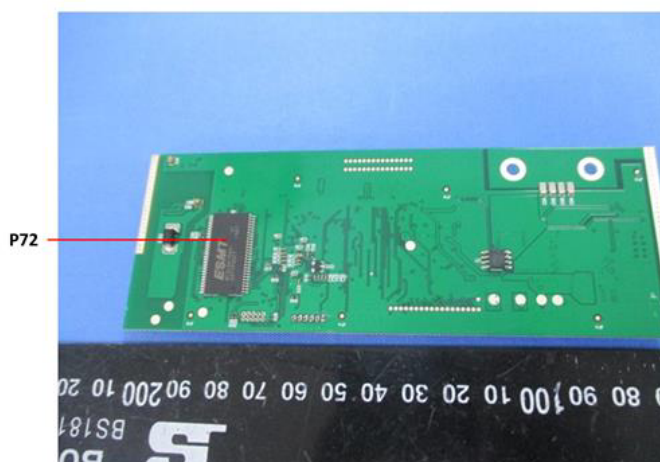
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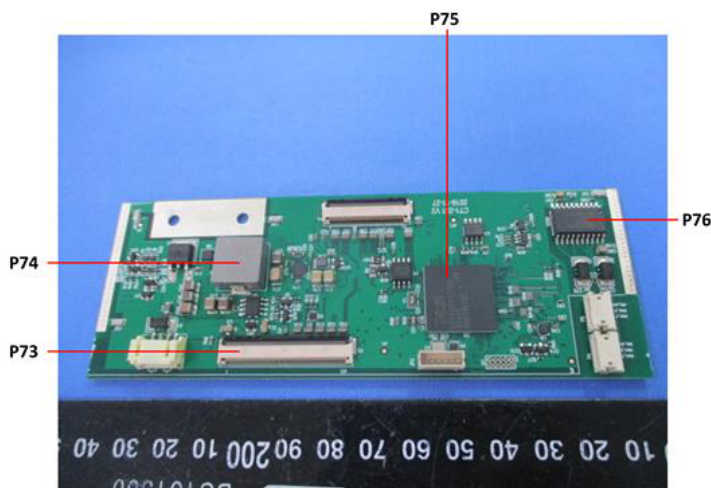
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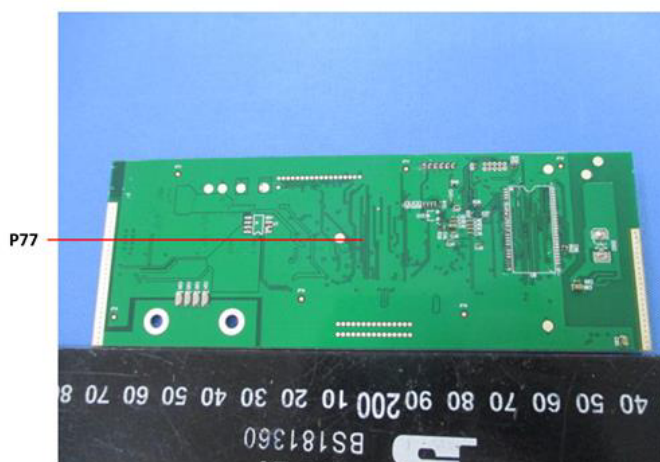
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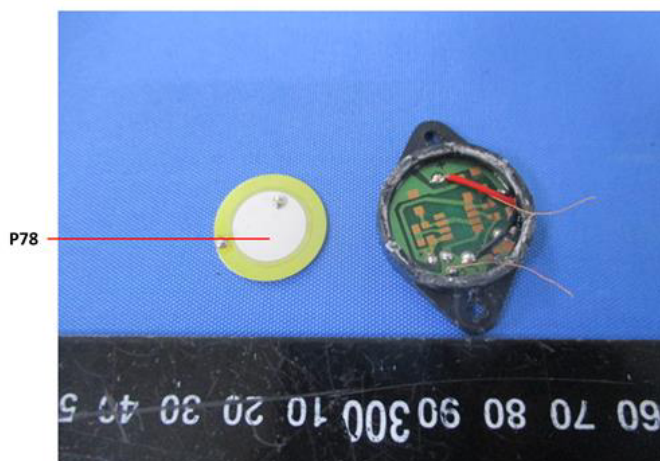
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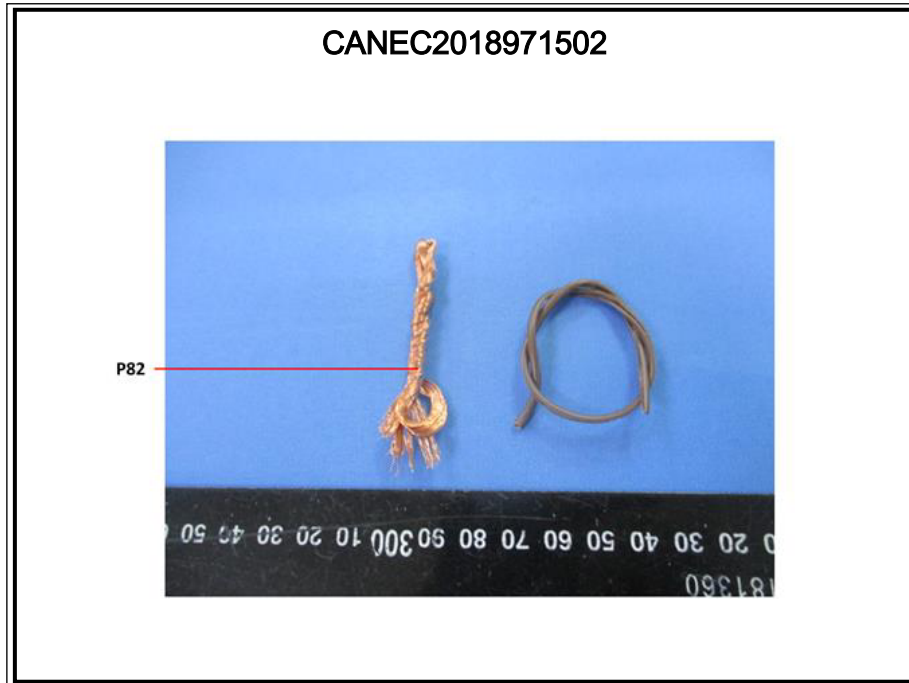
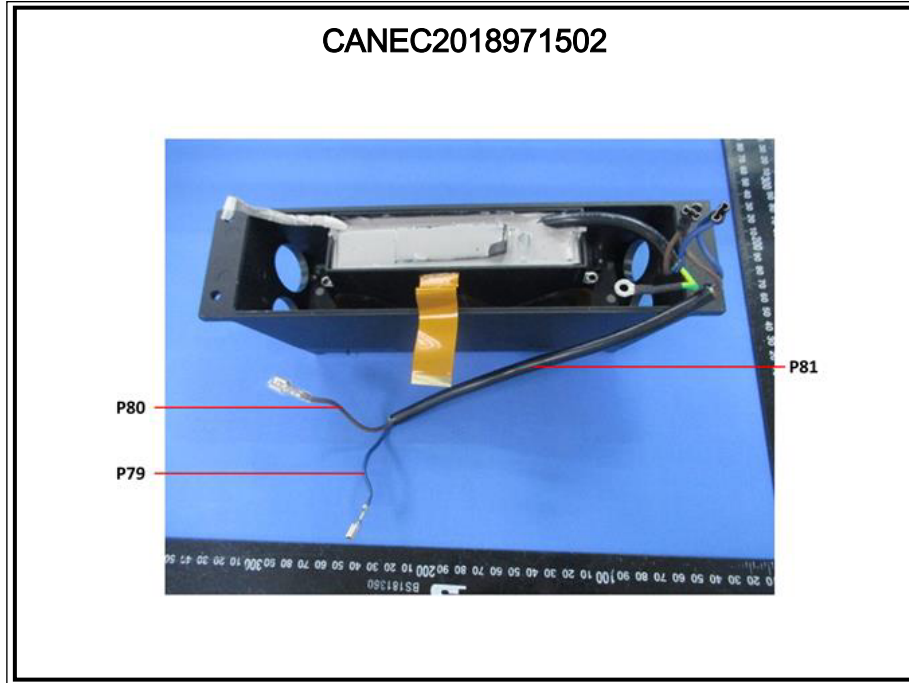


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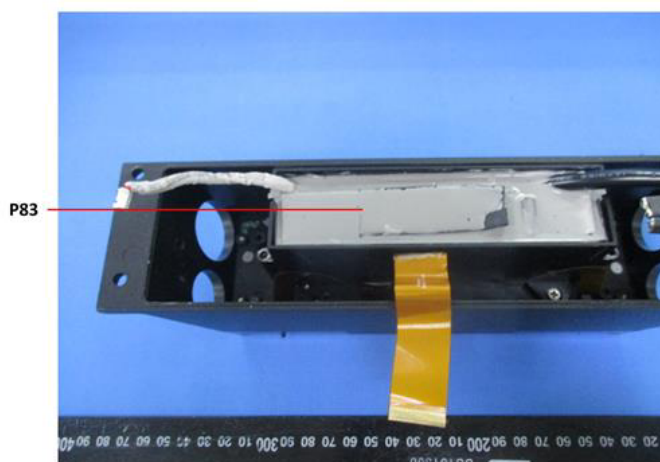
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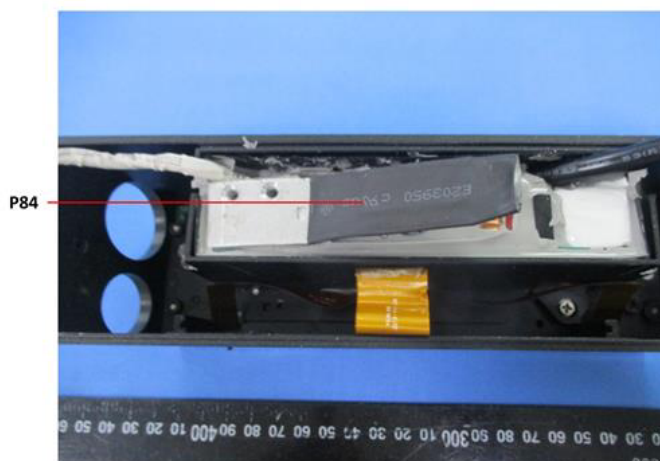
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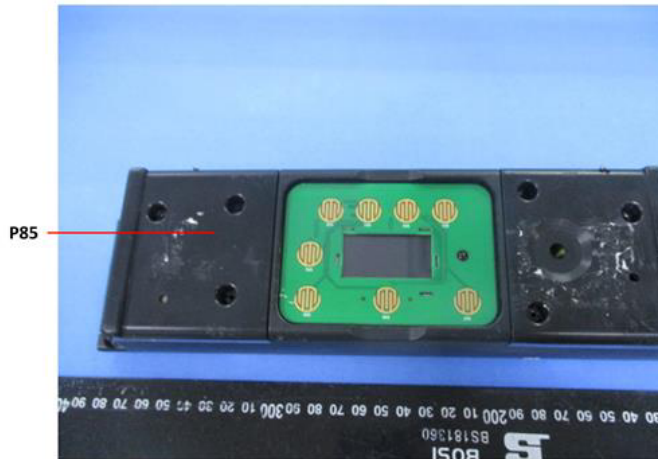
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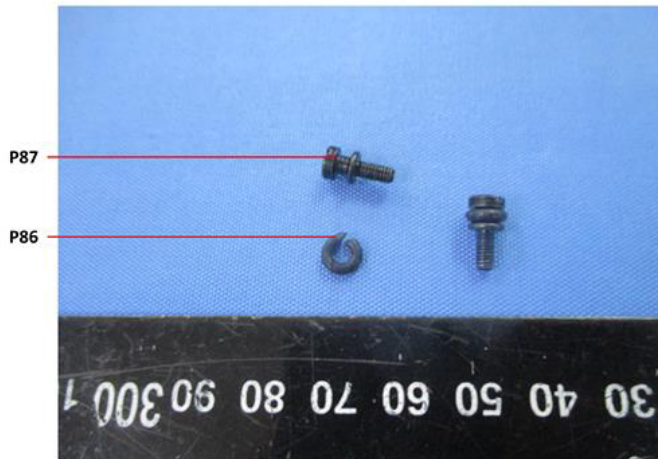
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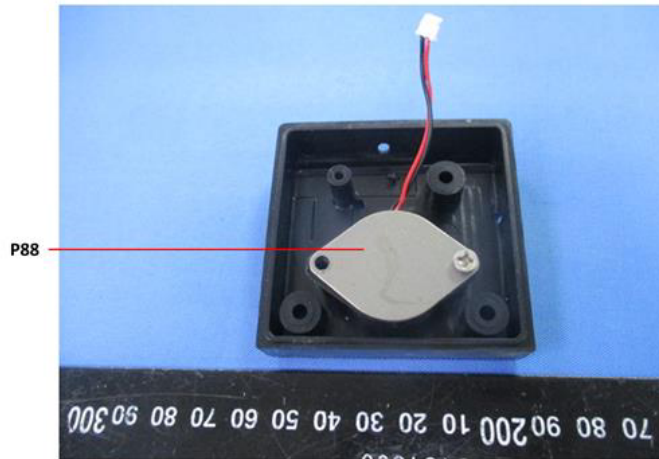
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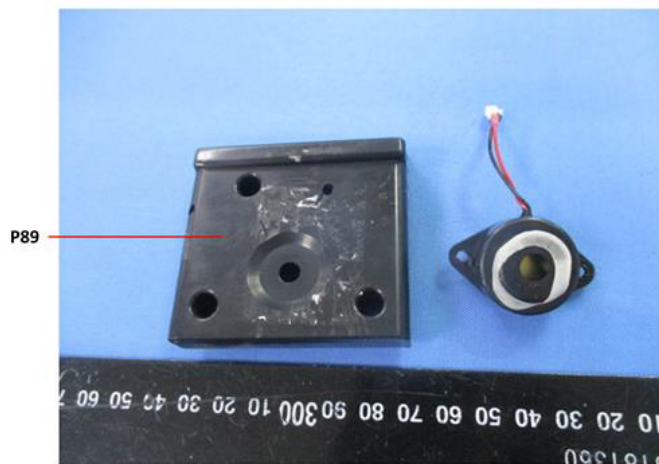
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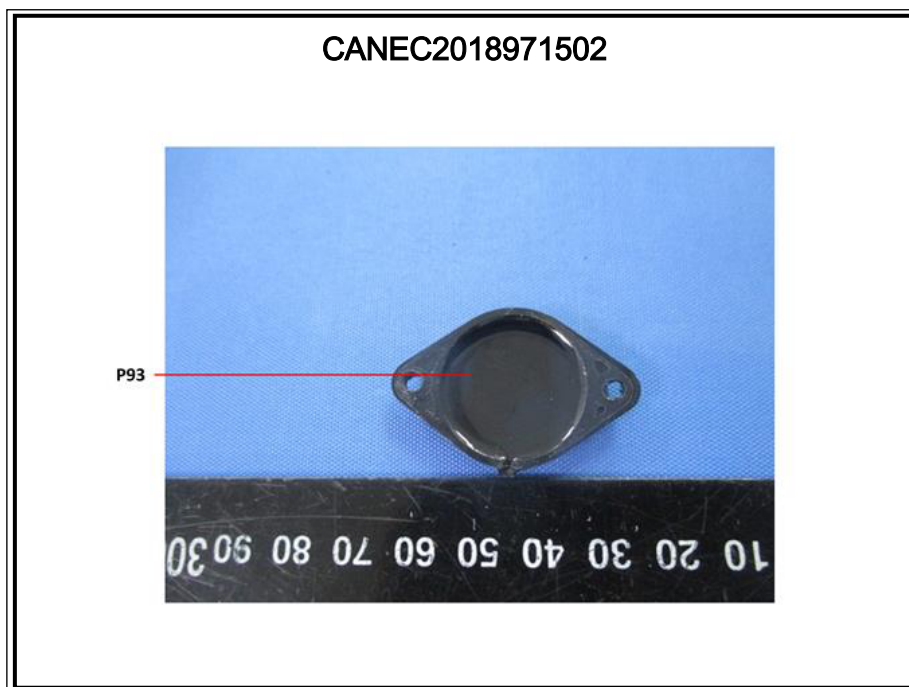
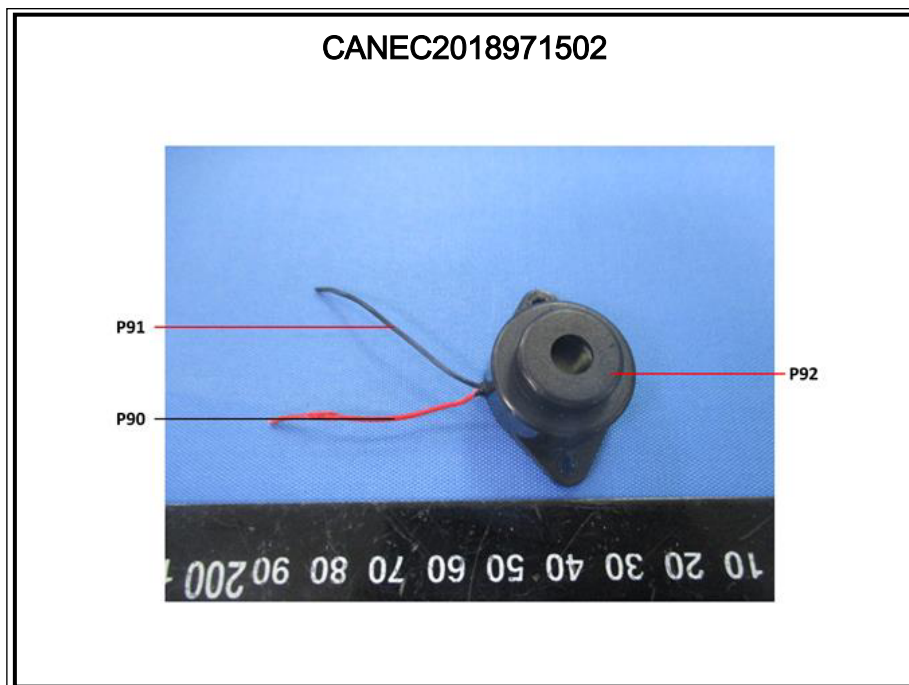
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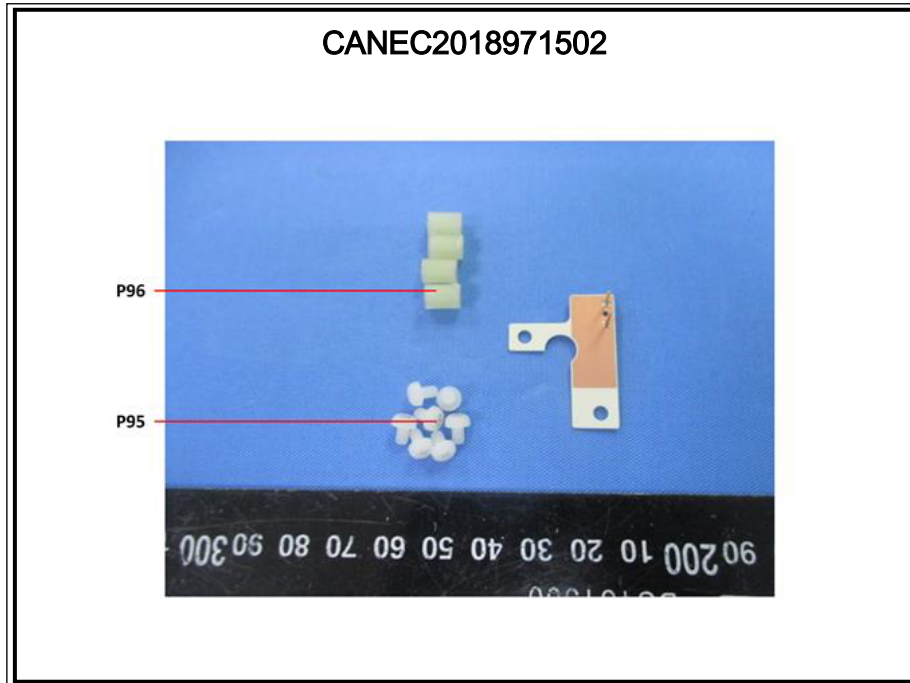
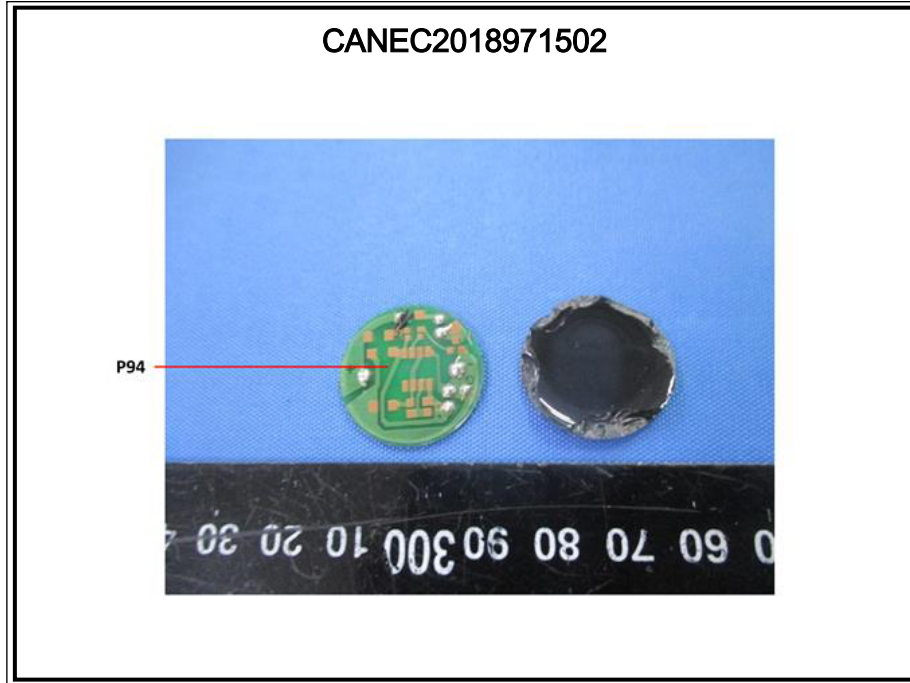
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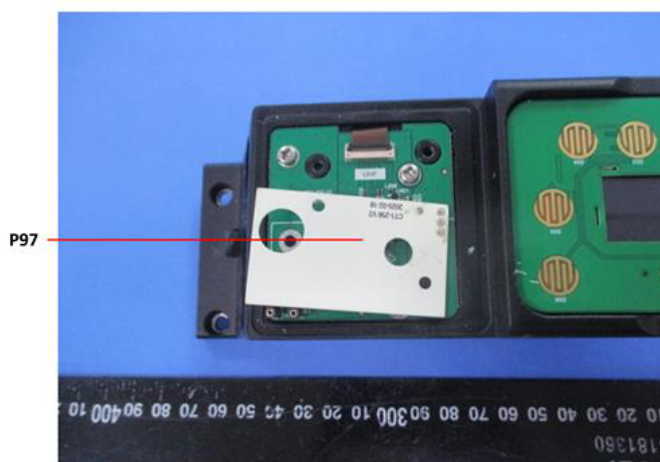
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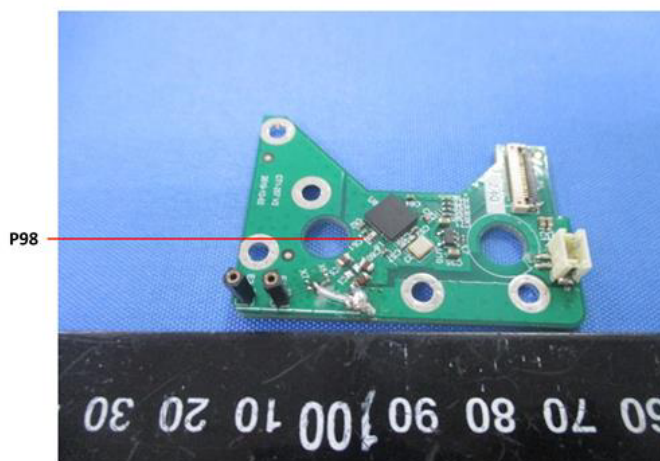
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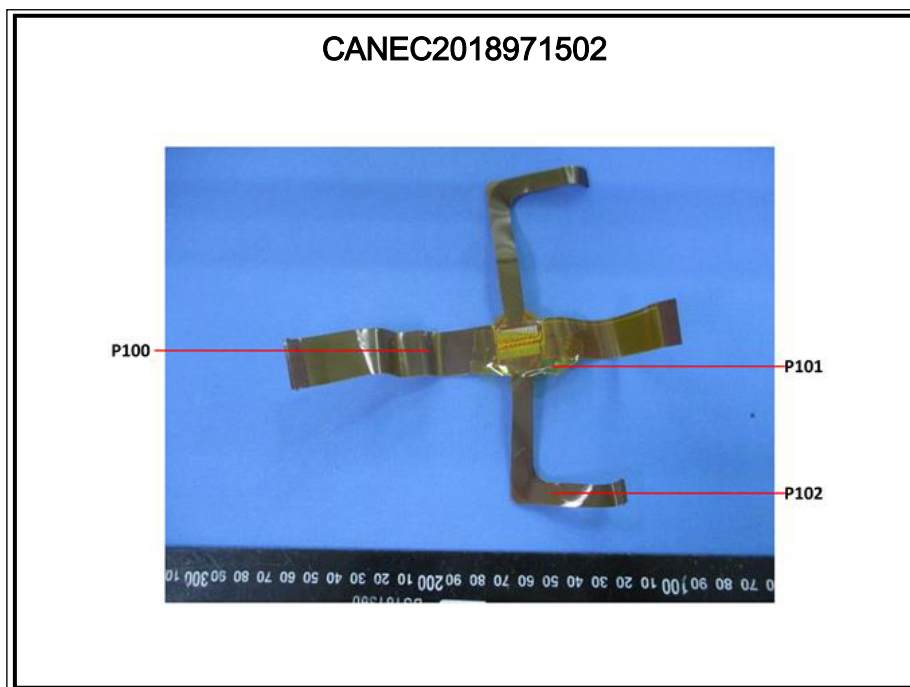
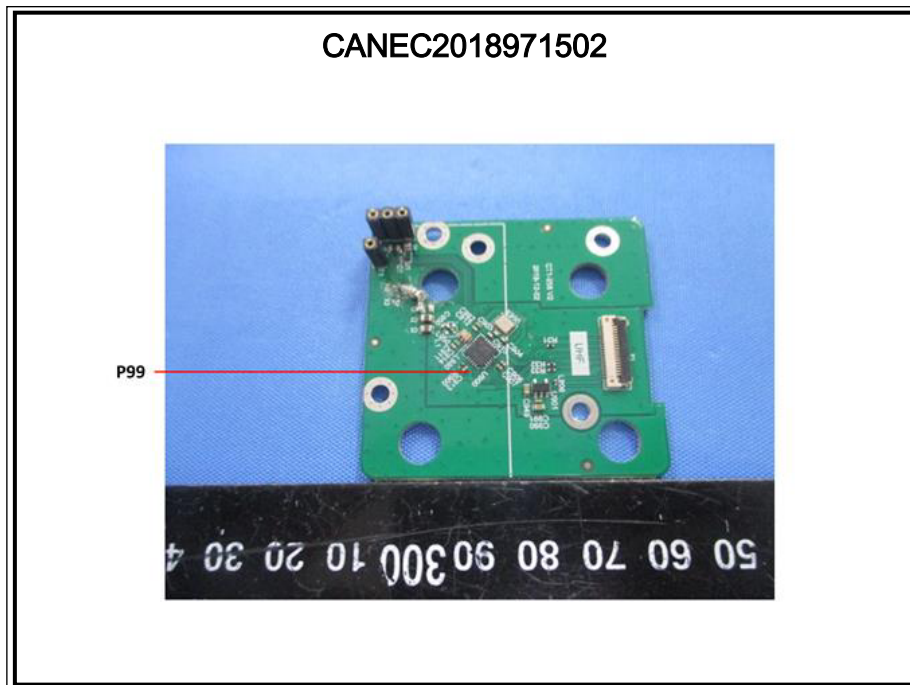


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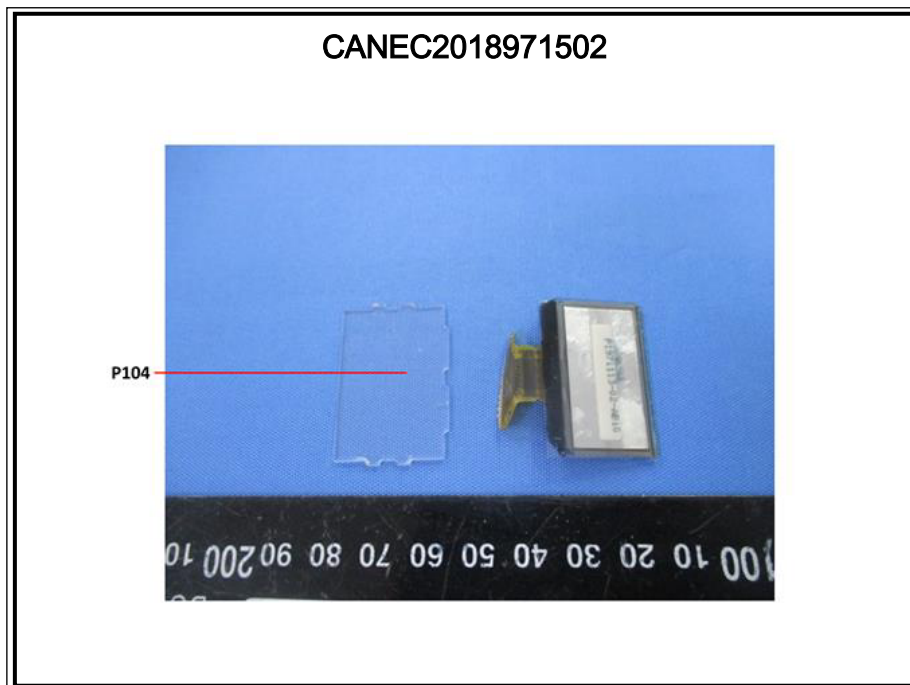
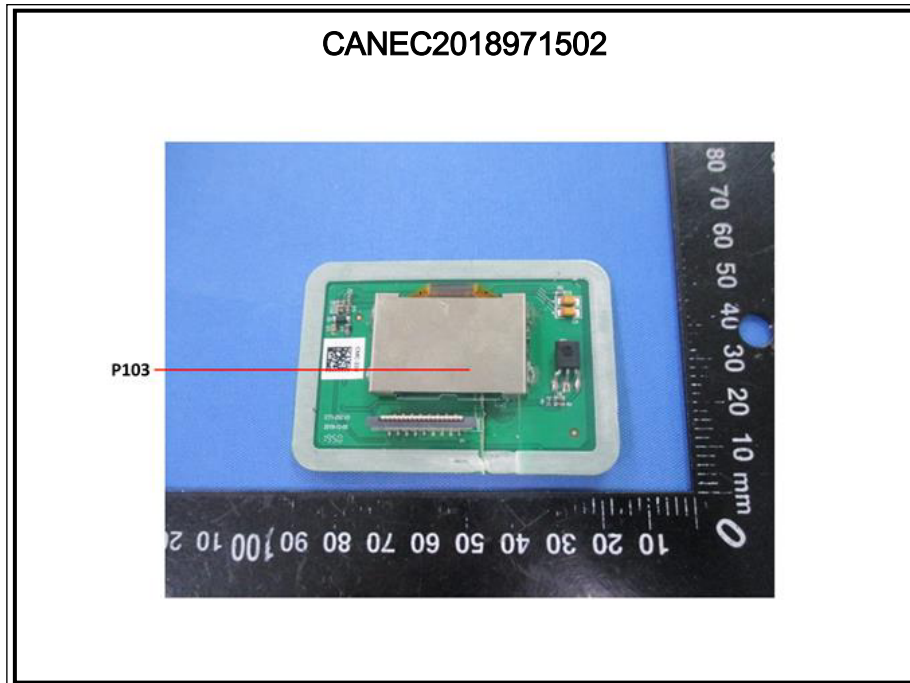


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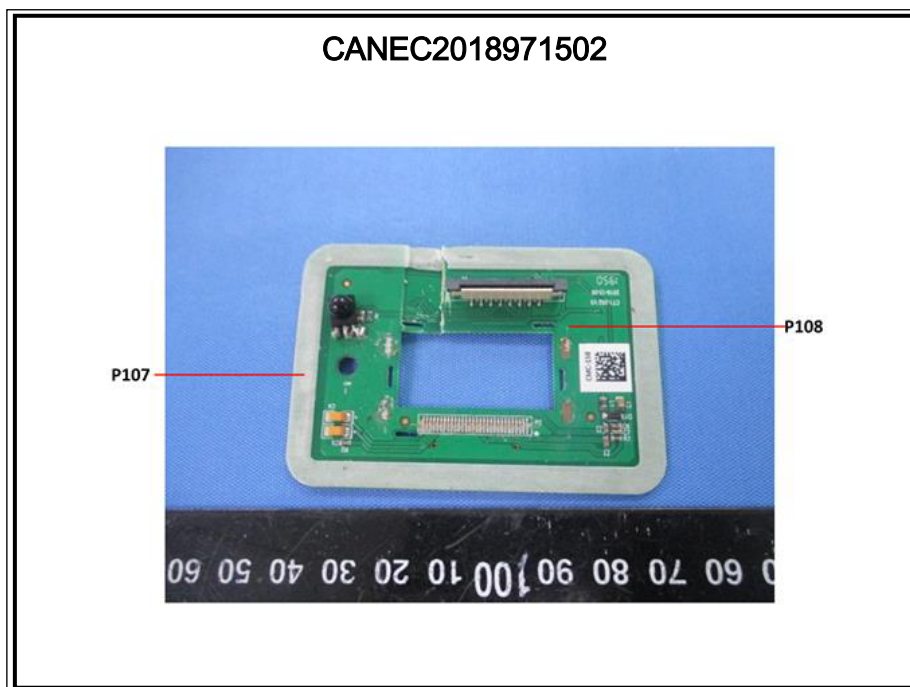
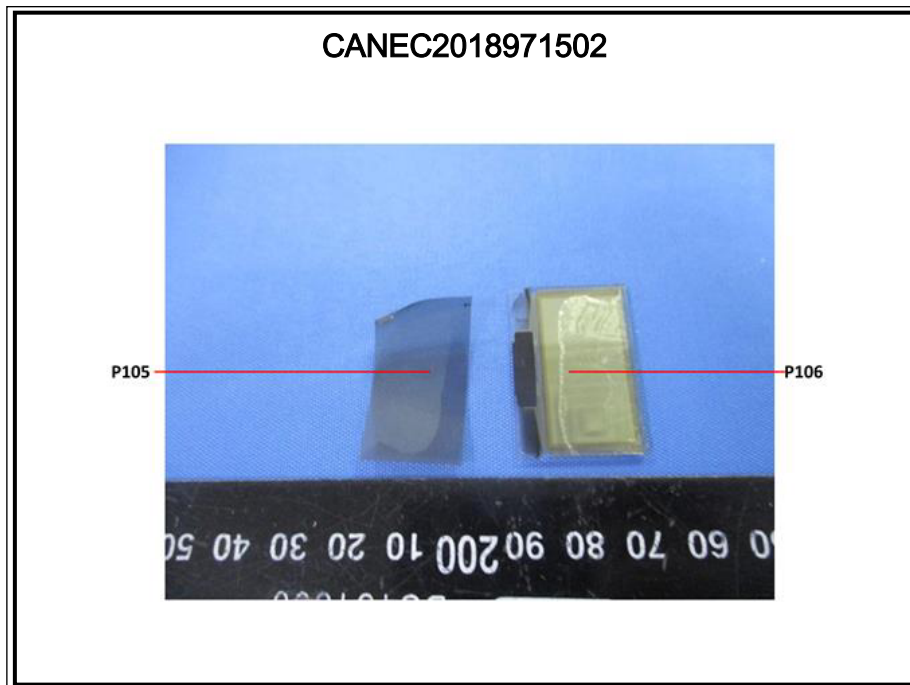
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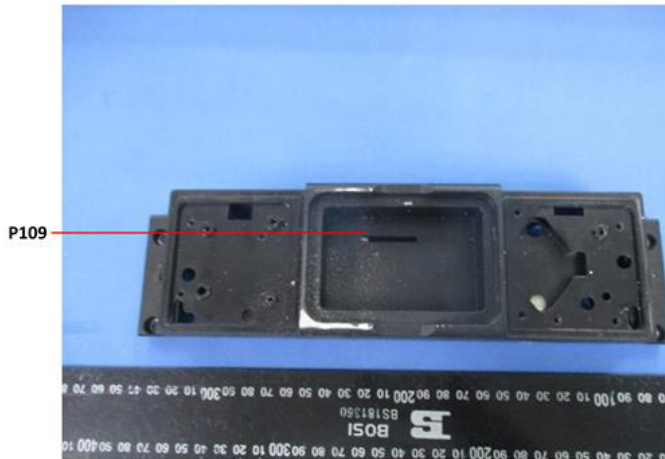
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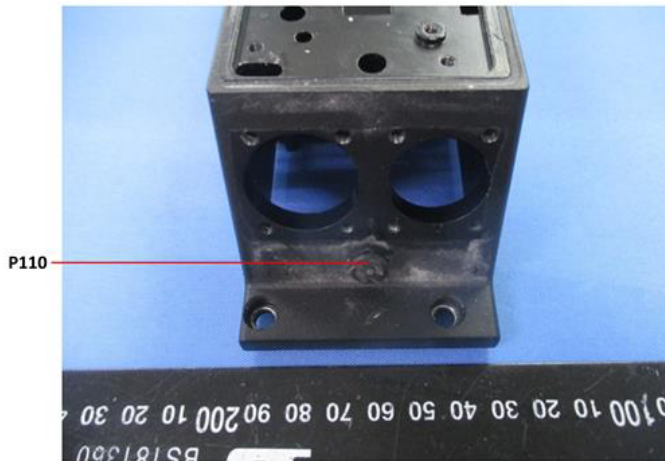
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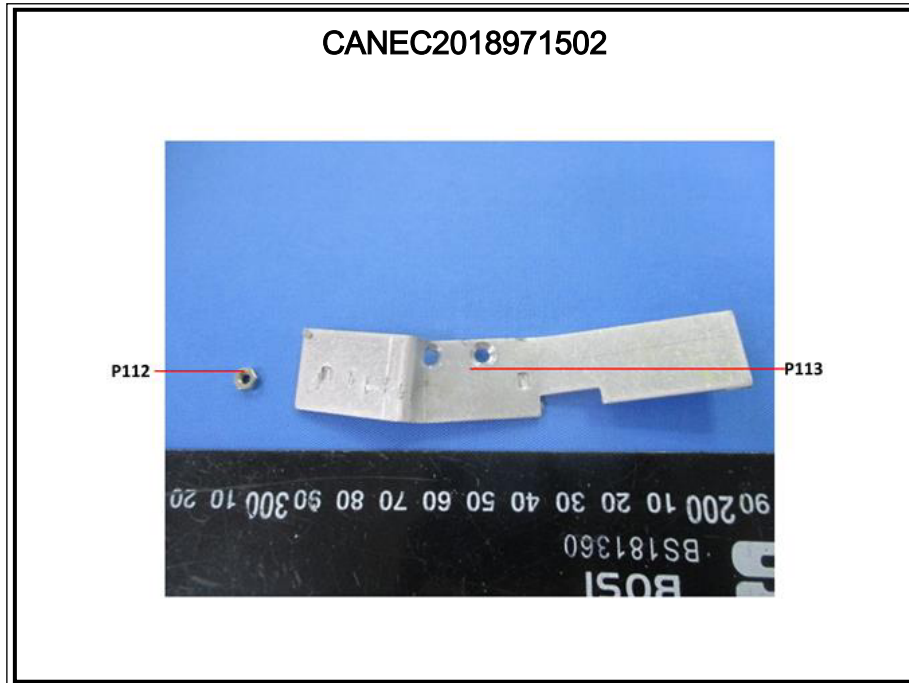


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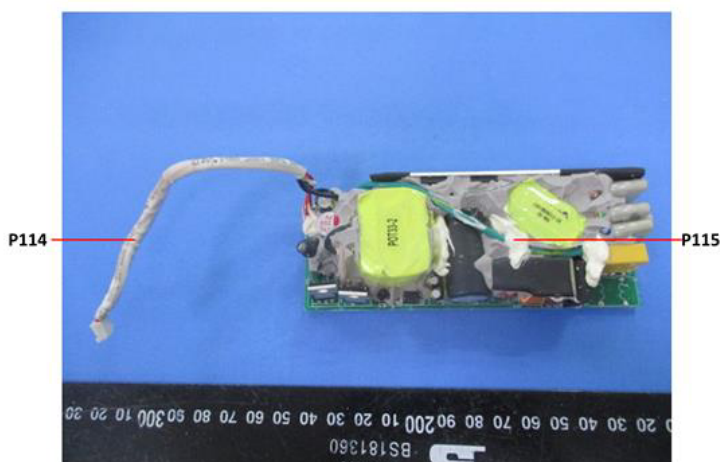
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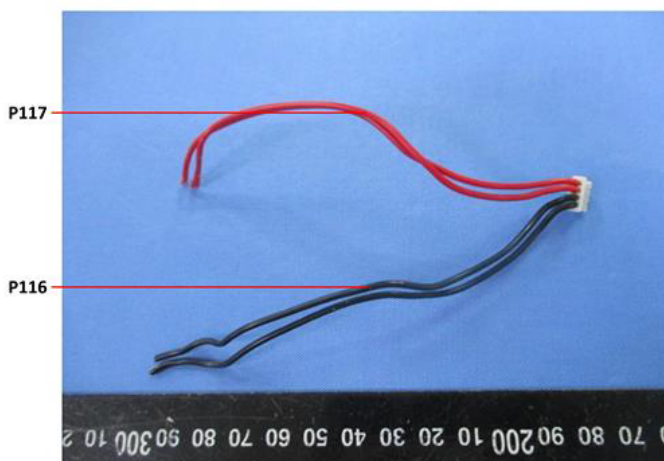
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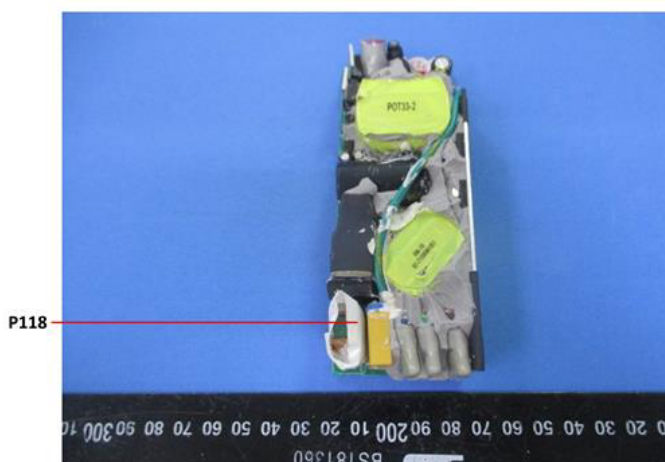
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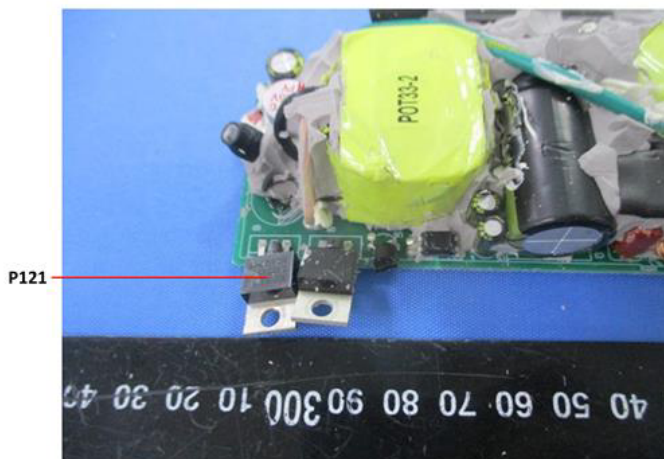
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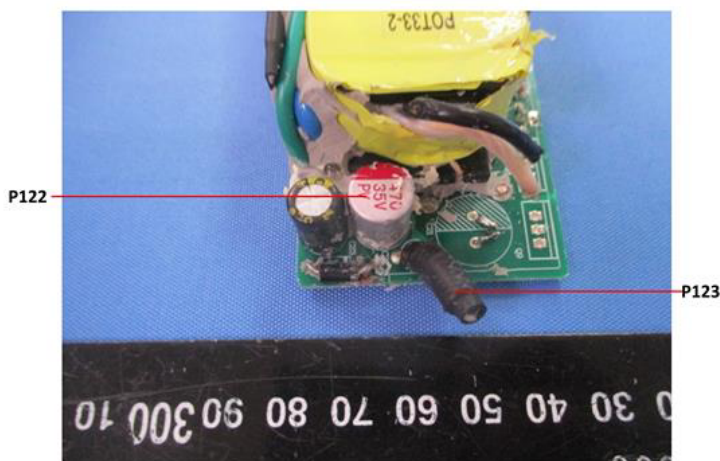
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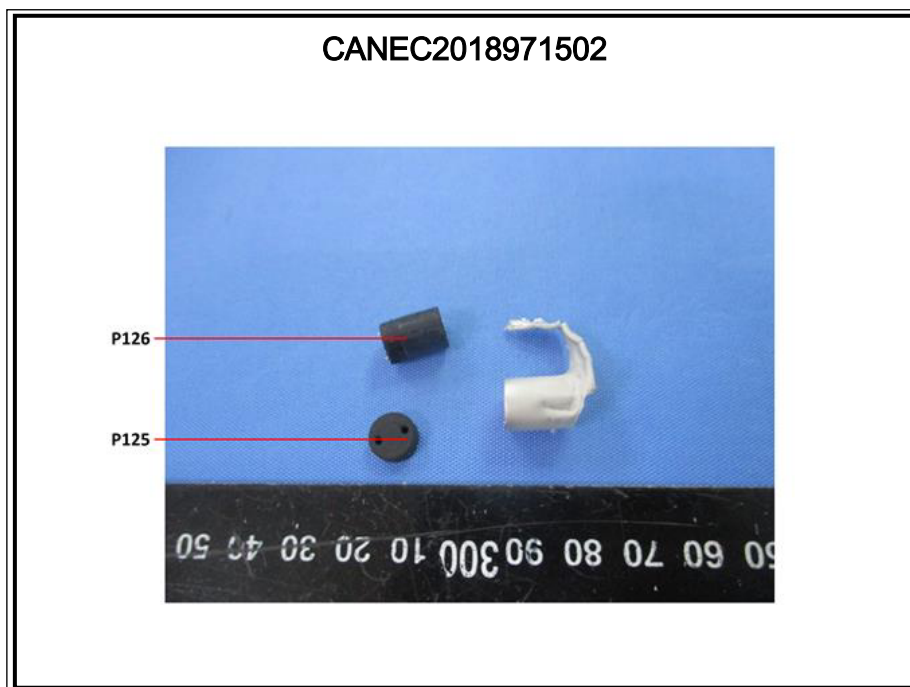
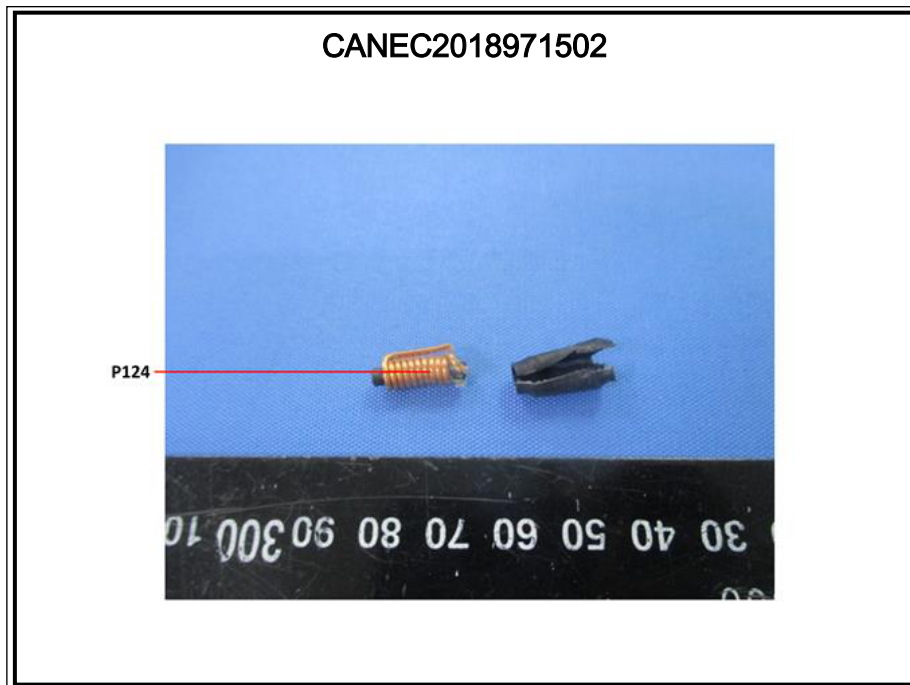


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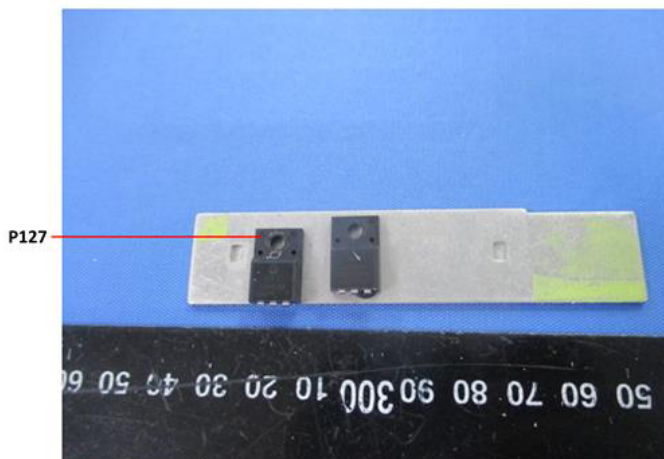
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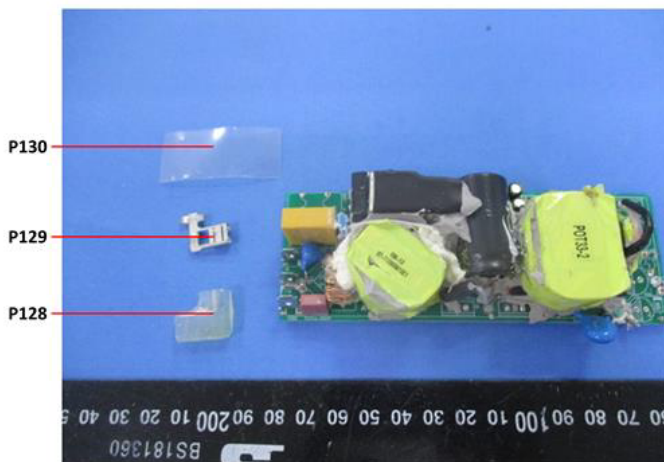
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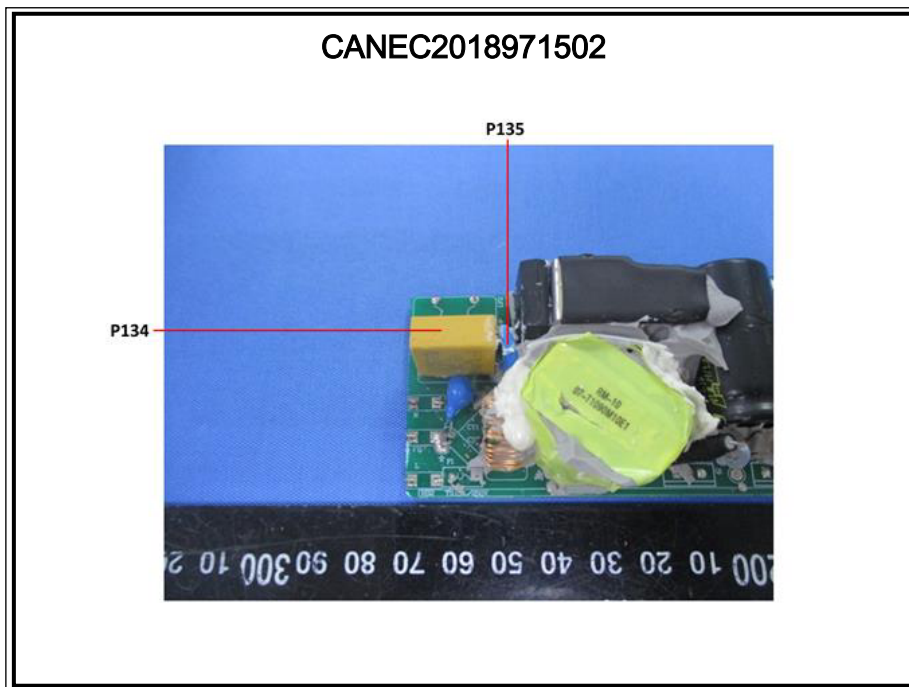
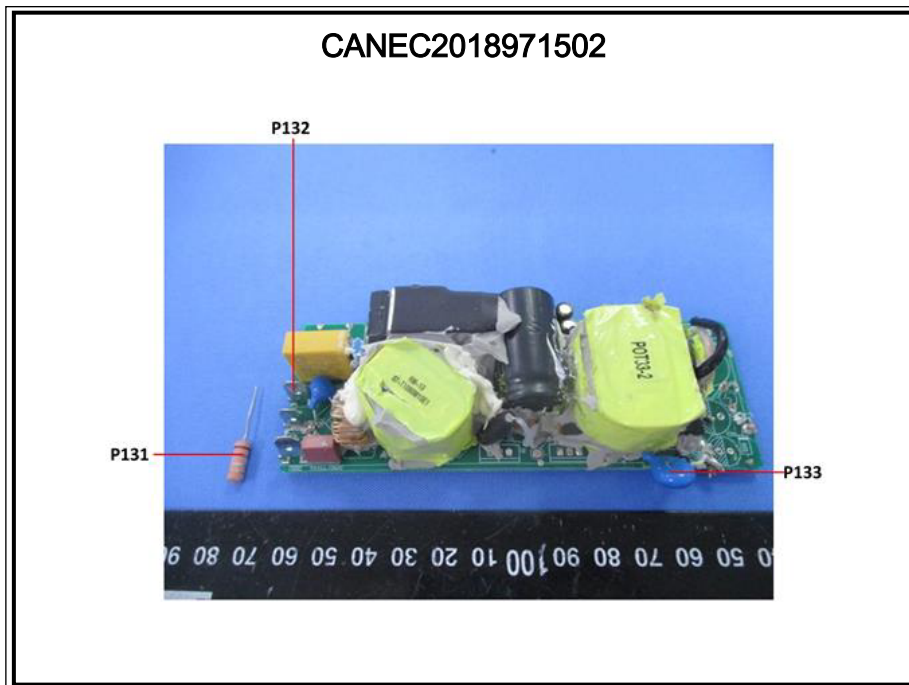
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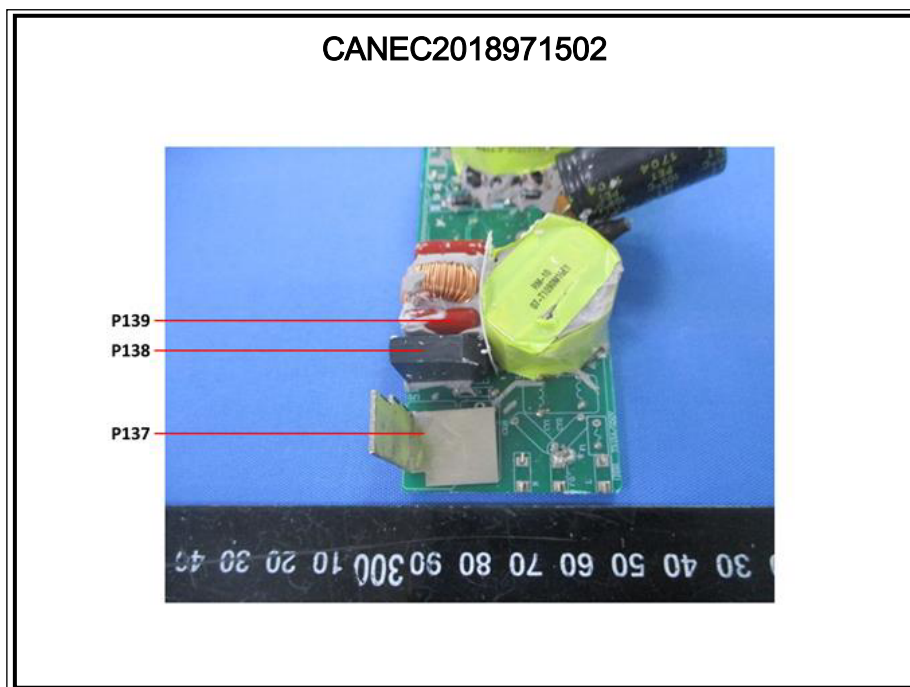
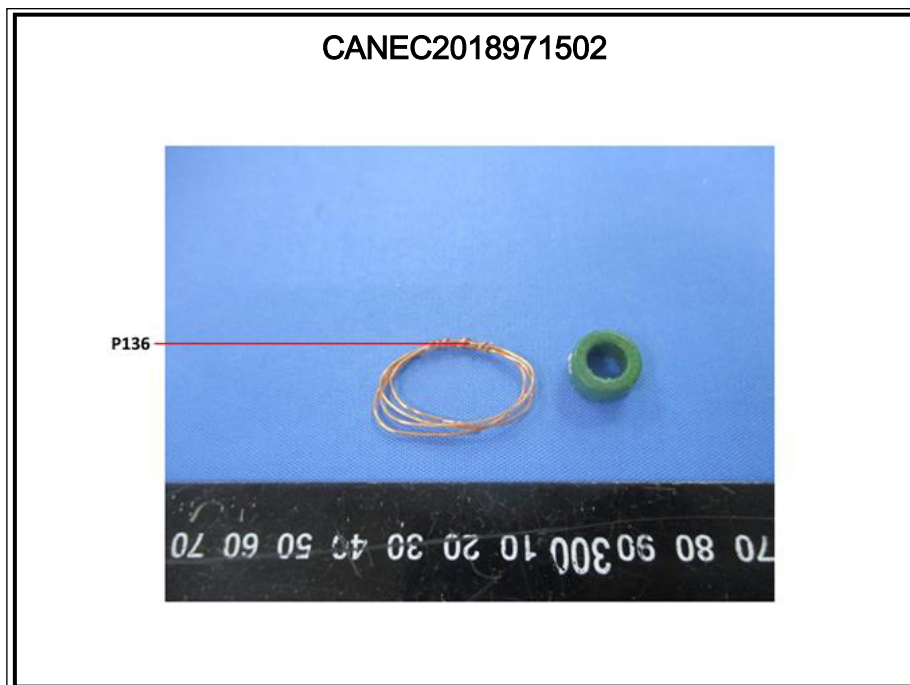


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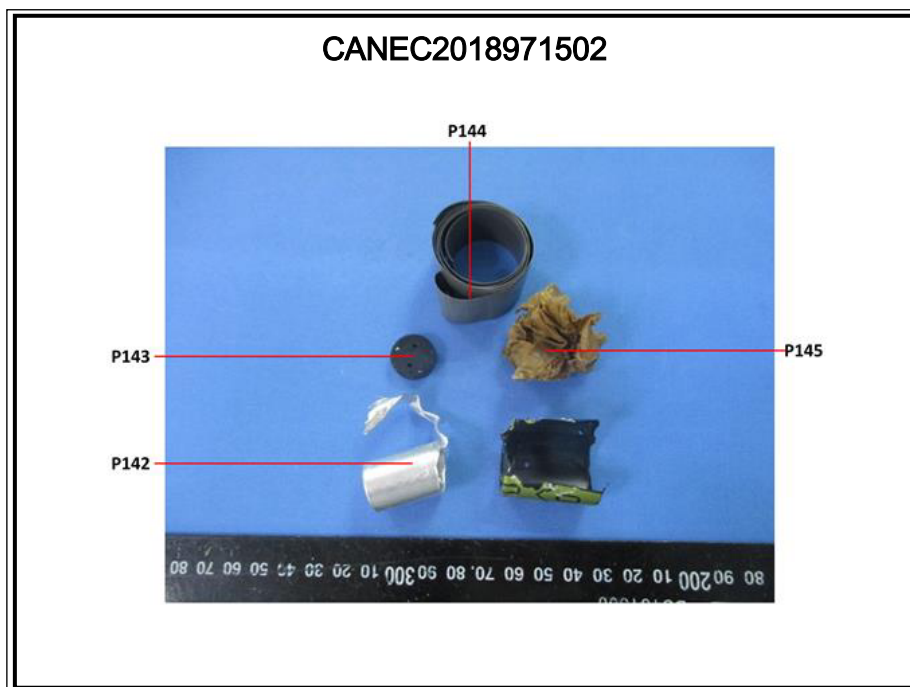
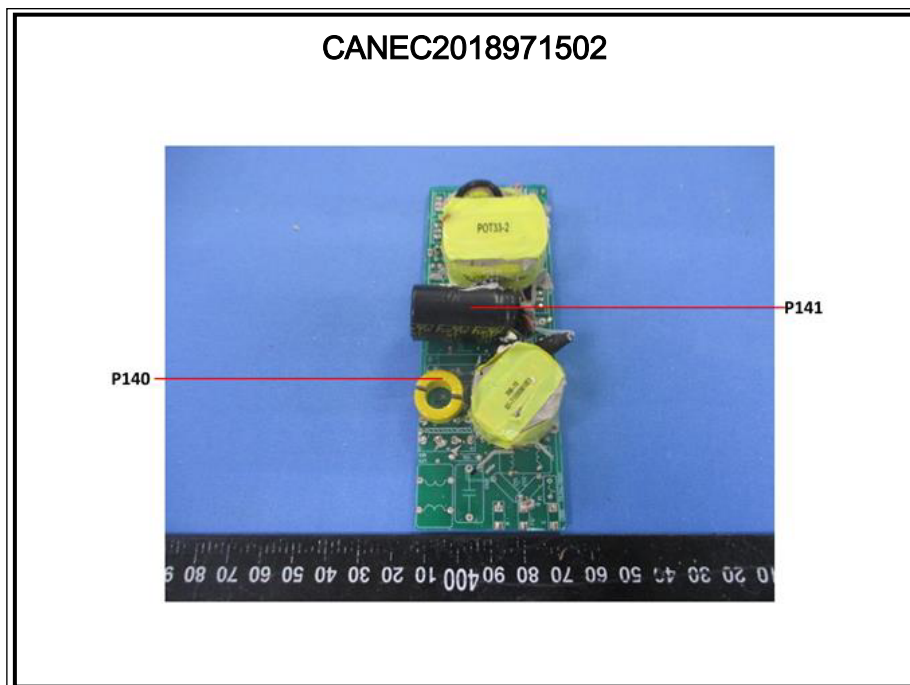
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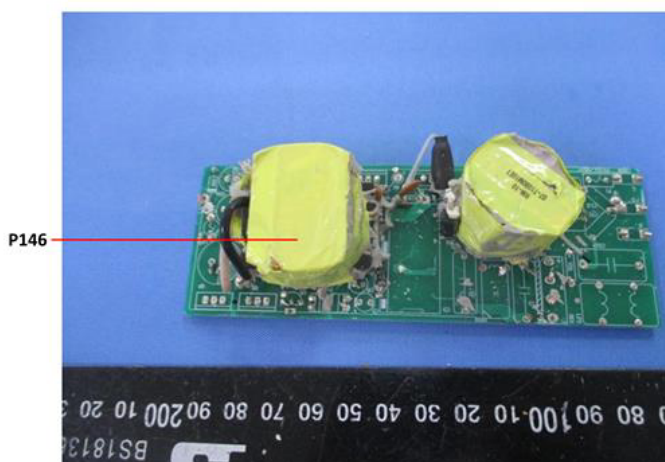
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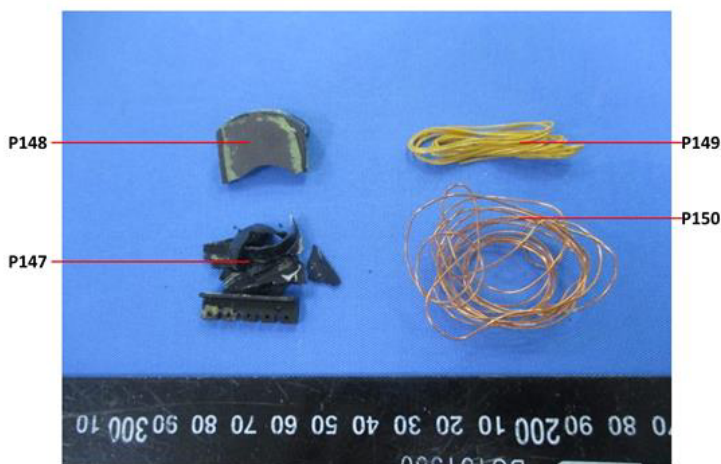




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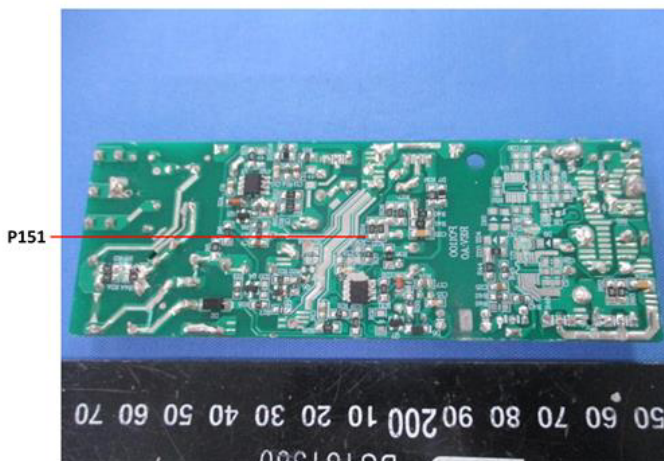
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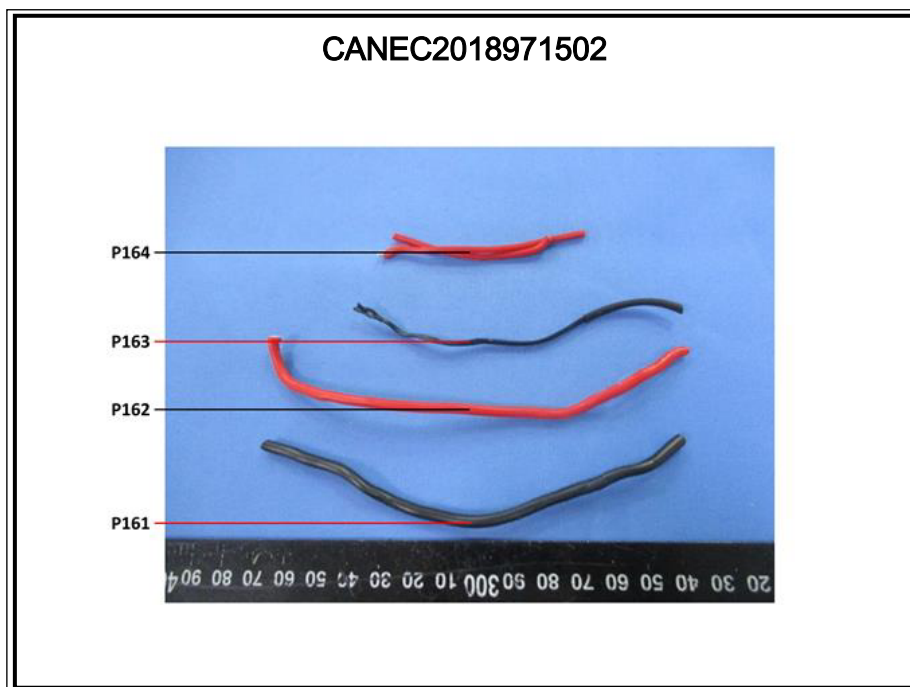
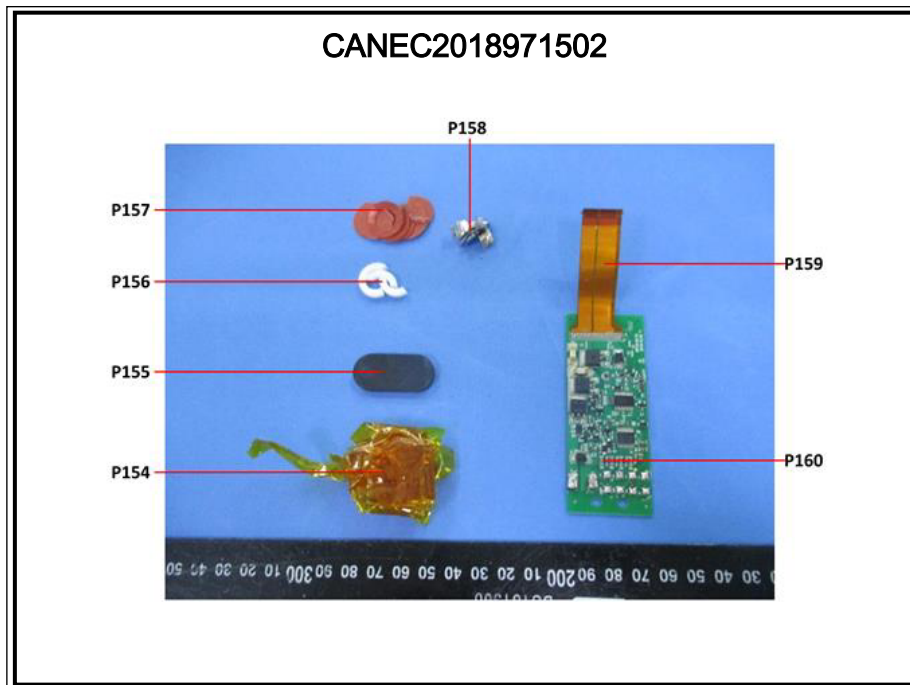


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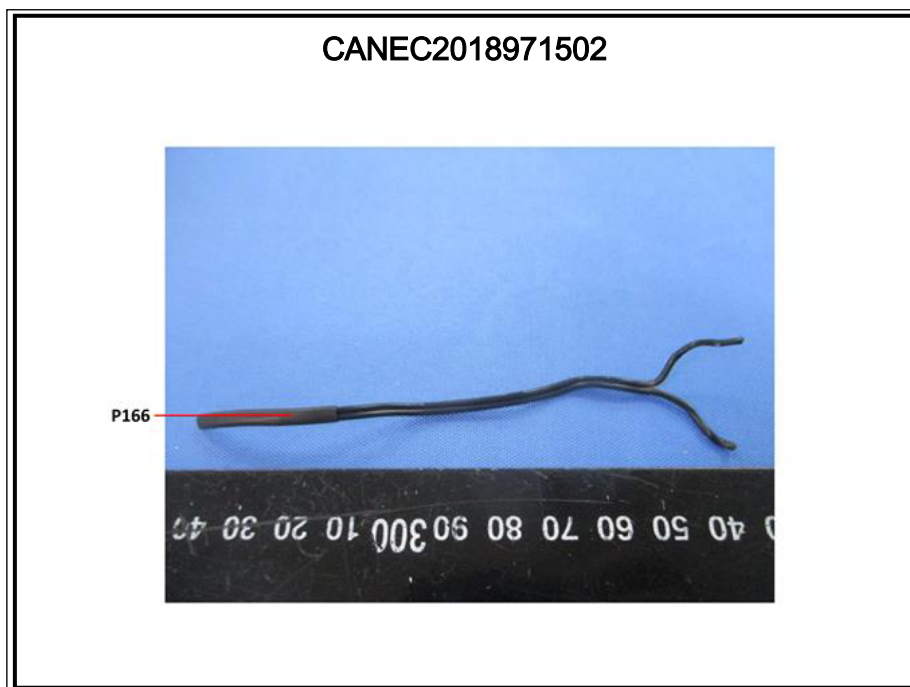
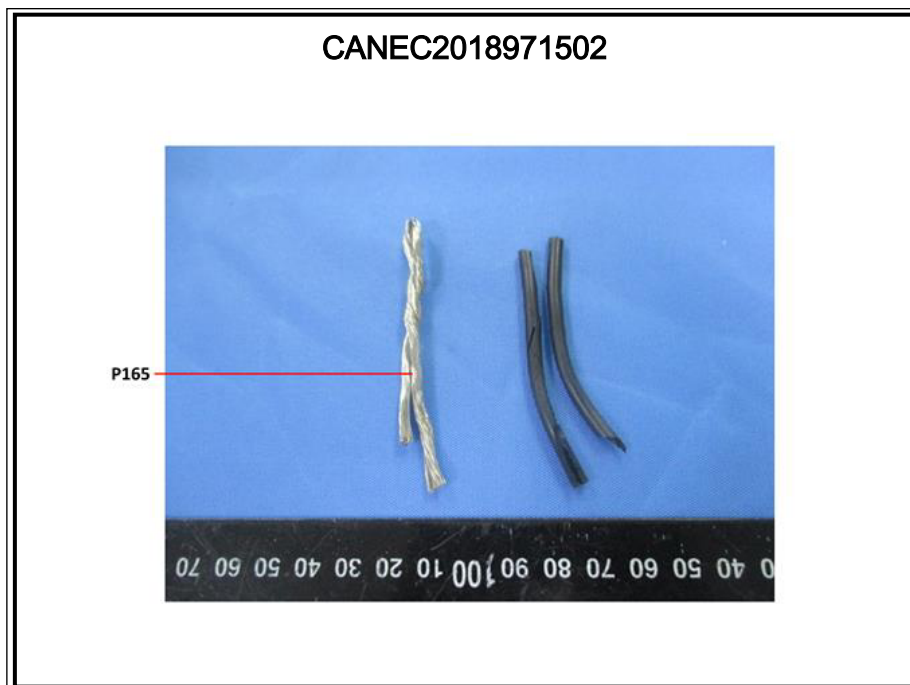


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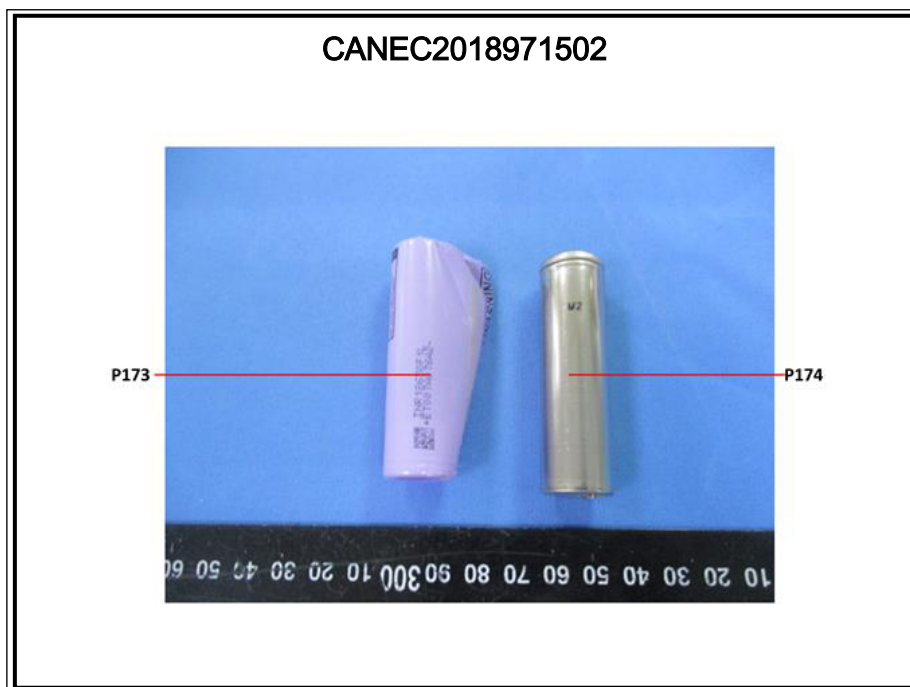
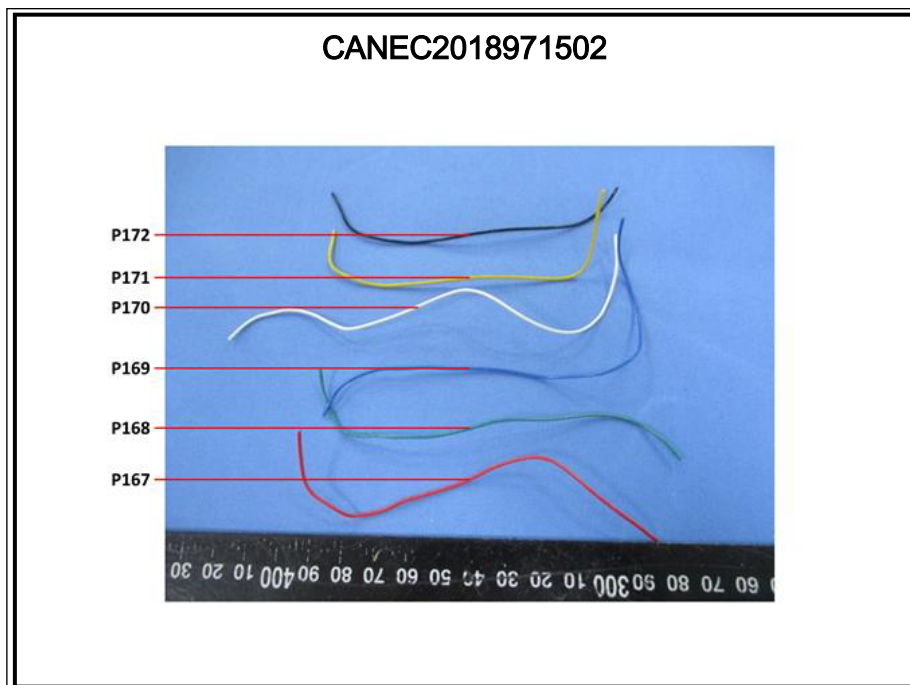
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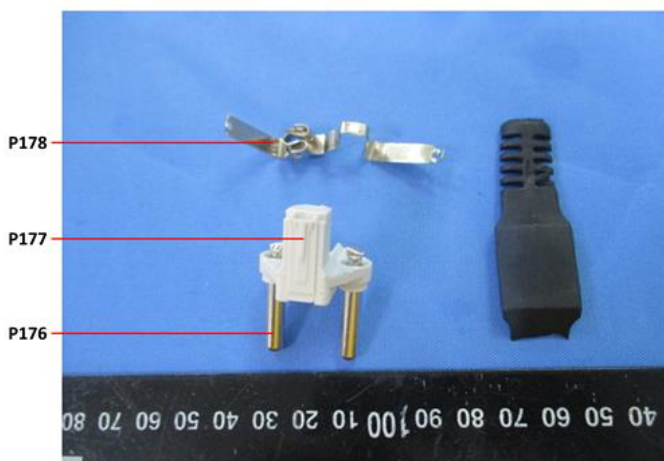
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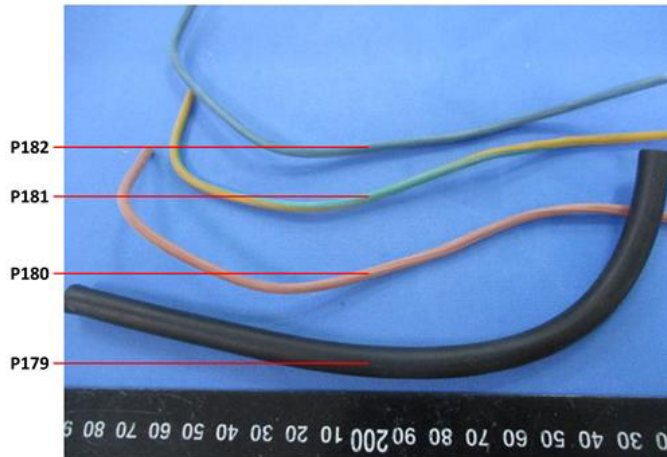


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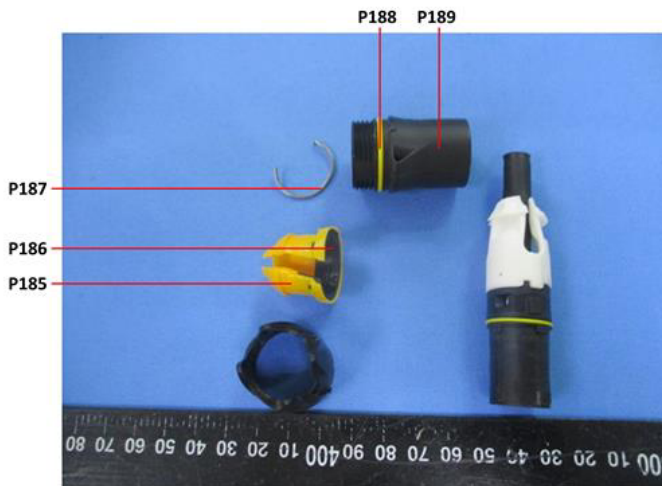




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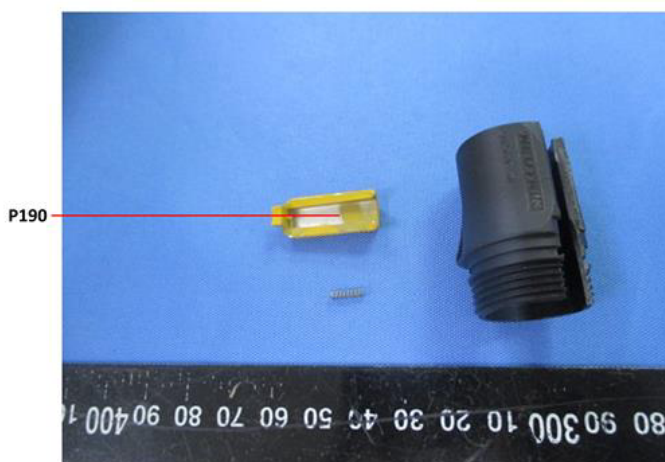
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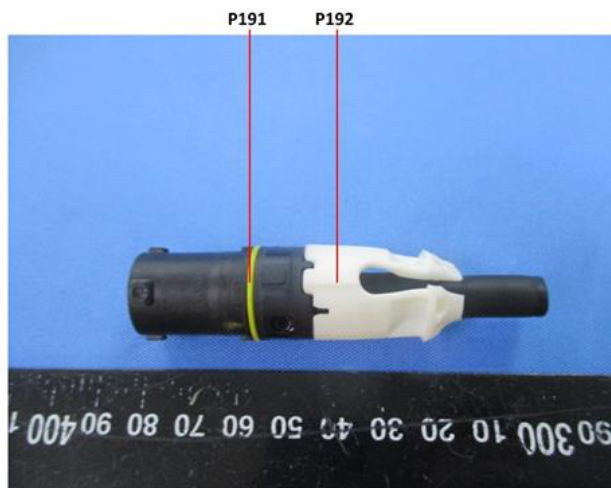
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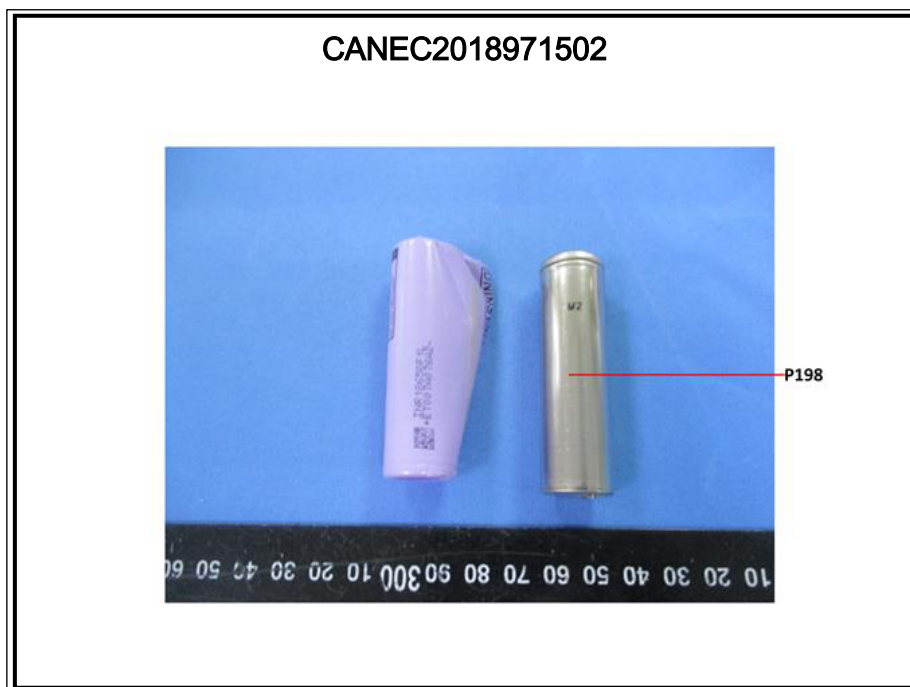
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