

## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 1 of 55

GUANGZHOU DACAI OPTOELECTRONIC TECHNOLOGY.CO.,LTD.  
3RD FLOOR,BUILDING C,NO.8,FUKANG WEST STREET,YUSHU INDUSTRIAL PARK,GUANGZHOU  
HIGH-TECH INDUSTRIAL DEVELOPMENT ZONE

The following sample(s) was/were submitted and identified on behalf of the clients as : M Style industrial configuration serial interface screen

SGS Job No. : CP21-057815 - GZ  
Model No. : DC10768KM121, DC80480KPM070  
Client Ref. Info. : SEE REMARK  
Date of Sample Received : 01 Nov 2021  
Testing Period : 01 Nov 2021 - 18 Nov 2021  
Test Requested : As requested by client, SVHC screening is performed according to:  
(i) Two hundred and nineteen (219) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jul 8, 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 Test Result ID 002, 004, 005, 006, 007, 008, 009, 010.	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

Jessie Li

Jessie Li  
Approved Signatory



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Guangzhou Branch Testing Center Chemical Laboratory.

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# Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 2 of 55

The test results of SVHC over limit in the articles of the submitted sample summary

Test Result ID	Description	Substance Name	CAS No.	Concentration (%)
002	Nonmetal group	Boric acid*	-	8.304
002	Nonmetal group	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	6.756
002	Nonmetal group	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	6.756
002	Nonmetal group	Diboron trioxide*	1303-86-2	4.675
002	Nonmetal group	Disodium octaborate*	12008-41-2	5.715
002	Nonmetal group	Orthoboric acid, sodium salt*	13840-56-7	17.164
004	Nonmetal group	Boric acid*	-	5.182
004	Nonmetal group	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	4.216
004	Nonmetal group	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	4.216
004	Nonmetal group	Diboron trioxide*	1303-86-2	2.917
004	Nonmetal group	Disodium octaborate*	12008-41-2	3.566
004	Nonmetal group	Orthoboric acid, sodium salt*	13840-56-7	10.710
005	Nonmetal group	[Phthalato(2-)]dioxotrilead*	69011-06-9	1.559
005	Nonmetal group	Dioxobis(stearato)trilead*	12578-12-0	2.328
005	Nonmetal group	Fatty acids, C16-18, lead salts*	91031-62-8	4.423
005	Nonmetal group	Lead cyanamidate*	20837-86-9	1.426
005	Nonmetal group	Lead dinitrate*	10099-74-8	1.895



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## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 3 of 55

Test Result ID	Description	Substance Name	CAS No.	Concentration (%)
005	Nonmetal group	Lead monoxide*	1317-36-8	1.277
005	Nonmetal group	Lead oxide sulfate*	12036-76-9	1.506
005	Nonmetal group	Lead tetroxide (orange lead)*	1314-41-6	1.308
005	Nonmetal group	Lead titanium trioxide*	12060-00-3	1.734
005	Nonmetal group	Lead titanium zirconium oxide*	12626-81-2	1.982
005	Nonmetal group	Pentalead tetraoxide sulphate*	12065-90-6	1.369
005	Nonmetal group	Pyrochlore, antimony lead yellow*	8012-00-8	2.203
005	Nonmetal group	Sulfurous acid, lead salt, dibasic*	62229-08-7	1.512
005	Nonmetal group	Tetralead trioxide sulphate*	12202-17-4	1.392
005	Nonmetal group	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	1.480
005	Nonmetal group	Trilead dioxide phosphonate*	12141-20-7	1.399
005	Nonmetal group	Lead di(acetate)*	301-04-2	1.861
005	Nonmetal group	Lead	7439-92-1	1.186
006	Metal group	Lead	7439-92-1	0.101
007	Metal group	Lead	7439-92-1	10.948
008	Metal group	Lead	7439-92-1	17.262
009	Cell	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	1.044
010	Nonmetal group	Lead	7439-92-1	0.974



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## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 4 of 55

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## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 5 of 55

### 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



## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 6 of 55

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 composite 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.	Test Result ID	Description	SGS Sample ID
SN1	001	Nonmetal group	CAN21-202088.001
SN2	002	Nonmetal group	CAN21-202088.002
SN3	003	Nonmetal group	CAN21-202088.003
SN4	004	Nonmetal group	CAN21-202088.004
SN5	005	Nonmetal group	CAN21-202088.005
SN6	006	Metal group	CAN21-202088.006
SN7	007	Metal group	CAN21-202088.007
SN8	008	Metal group	CAN21-202088.008
SN9	009	Cell	CAN21-202088.009
SN10	010	Nonmetal group	CAN21-202088.010



## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 7 of 55

SGS Sample ID	Photo No.	Material Description
001	P1	Colorless transparent adhesive plastic sheet
001	P6	White plastic (flat cable jacket) w/blue printing
001	P7	Black plastic part
001	P9	Silvery / green adhesive plastic sheet w/black printing
001	P14	Black plastic part
001	P16	Black plastic part
001	P20	Beige plastic housing
001	P21	Beige plastic housing
001	P22	Beige plastic housing
001	P25	Black mixed part
001	P27	Beige plastic housing
001	P30	Brown plastic shell
001	P32	Black body
001	P37	Silvery body
001	P41	Black plastic shell
001	P43	Black plastic shell
001	P44	Black plastic shell
001	P49	Black adhesive fibre sheet
001	P50	Black plastic (heat shrinkable tube) w/white printing
002	P31	Green "PCB" w/solder
002	P38	Red plastic (wire insulation)
002	P39	Black plastic (wire insulation)
002	P40	Grey adhesive foam sheet
002	P54	Green plastic (wire insulation) w/wire



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## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 8 of 55

SGS Sample ID	Photo No.	Material Description
002	P55	Blue plastic (wire insulation) w/wire
002	P56	Blue plastic (wire insulation) w/wire
002	P57	Red plastic (wire insulation) w/wire
002	P58	Black plastic (wire insulation) w/wire
002	P59	White plastic (wire insulation) w/wire
002	P62	Black adhesive foam sheet
002	P63	Transparent glass sheet
002	P64	Black adhesive plastic sheet
002	P68	White adhesive plastic sheet w/black printing
002	P69	Black adhesive plastic sheet
002	P70	White rubber sheet
002	P75	Brown transparent adhesive plastic sheet
002	P83	Black translucent glass sheet
002	P84	Black translucent plastic sheet
002	P85	Black translucent adhesive plastic sheet
003	P52	Black "FPC"
003	P53	White mixed part
003	P60	Brown mixed part
003	P71	White "PCBA"
003	P73	Brown plastic (flat cable jacket)
003	P74	Colorless transparent adhesive plastic sheet
003	P77	White plastic sheet
003	P78	White translucent plastic sheet
003	P79	Silvery translucent plastic sheet



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## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 9 of 55

SGS Sample ID	Photo No.	Material Description
003	P80	Transparent plastic sheet
003	P81	Black plastic frame
003	P82	Silvery translucent plastic sheet
003	P89	Black plastic frame
003	P90	Black/white adhesive plastic sheet
003	P91	Black plastic shell
003	P96	Colorless transparent plastic sheet
003	P98	Brown translucent "FPC"
003	P99	White plastic frame
003	P100	White "FPC"
004	P88	Green "PCBA"
004	P92	Silvery adhesive plastic sheet w/multicolor printing
004	P95	Colorless translucent glass sheet
004	P97	Black adhesive rubber sheet
004	P101	Black translucent adhesive plastic sheet
004	P102	Black translucent adhesive plastic sheet
004	P103	Black translucent glass sheet
004	P107	Blue "PCBA"
004	P114	White/red plastic (wire insulation) w/wire
004	P118	Black plastic (heat shrinkable tube)
004	P119	Brown translucent plastic (wire insulation) w/wire
004	P135	Black plastic (heat shrinkable tube) w/white printing
004	P144	Black rubber part
005	P104	Beige/black mixed part



## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 10 of 55

SGS Sample ID	Photo No.	Material Description
005	P105	Silvery/black mixed part
005	P108	Golden / white mixed part
005	P109	Black mixed part
005	P110	Green plastic part
005	P111	Green "PCB"
005	P115	White mixed part
005	P116	White plastic (flat cable jacket) w/blue printing
005	P120	Golden mixed part
005	P127	Black plastic part
005	P128	Green plastic part
005	P129	Green plastic part
005	P133	Black plastic shell
005	P138	Black plastic part
005	P139	Black plastic part
005	P140	Black plastic ring
005	P142	Silvery mixed part
006	P2	Silvery metal frame
006	P3	Dark grey surfaced metal shell
006	P4	Grey surfaced metal shell
006	P5	Black surfaced metal screw
006	P8	Silvery metal part
006	P10	Grey surfaced metal part
006	P11	Silvery metal part
006	P12	Silvery metal sheet



## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 11 of 55

SGS Sample ID	Photo No.	Material Description
006	P13	Silvery metal pin
006	P15	Silvery metal sheet
006	P17	Black surfaced metal sheet
006	P18	Black surfaced metal screw
006	P28	Silvery metal pin
006	P29	Golden metal sheet
006	P35	Silvery metal cover
006	P42	Silvery metal wire
006	P45	Light blue surfaced metal shell
006	P46	Light blue surfaced magnet
006	P47	Black surfaced metal frame
006	P48	Silvery metal shell
007	P61	Silvery metal sheet
007	P65	Silvery metal shell
007	P66	Silvery adhesive metal sheet
007	P67	Silvery metal shell
007	P72	Silvery metal frame
007	P76	Silvery metal part
007	P93	White surfaced metal cover
007	P94	Golden metal nut
007	P117	Golden metal part
007	P121	Silvery metal part
007	P122	Golden metal part
008	P123	Golden metal (spring washer)



## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 12 of 55

SGS Sample ID	Photo No.	Material Description
008	P124	Golden metal nut
008	P125	Silvery metal screw
008	P126	Golden metal nut
008	P130	Silvery metal part
008	P131	Light blue surfaced metal screw
008	P132	Silvery metal terminal
008	P134	Silvery metal rod
008	P136	Silvery metal tube
008	P137	Silvery metal tube
008	P141	Silvery metal part
008	P143	Silvery metal part
009	P19	Cell
010	P23	Black body
010	P24	Black body
010	P26	Black body
010	P33	Black body
010	P34	Black body
010	P36	Black body
010	P51	Black body
010	P86	Grey body
010	P87	Black body
010	P106	Black body
010	P112	Black body
010	P113	Black body

### 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 Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 13 of 55

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

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
III	Boric acid*	-	8.304	0.010
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	6.756	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	6.756	0.010
VII	Diboron trioxide*	1303-86-2	4.675	0.010
XIX	Disodium octaborate*	12008-41-2	5.715	0.010
XXV	Orthoboric acid, sodium salt*	13840-56-7	17.164	0.005
-	Other tested SVHC in candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
III	Boric acid*	-	0.046	0.010
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.037	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.037	0.010
VII	Diboron trioxide*	1303-86-2	0.026	0.010
XIX	Disodium octaborate*	12008-41-2	0.031	0.010
XXV	Orthoboric acid, sodium salt*	13840-56-7	0.095	0.005
-	Other tested SVHC in candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
III	Boric acid*	-	5.182	0.010



# Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 14 of 55

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

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	4.216	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	4.216	0.010
VII	Diboron trioxide*	1303-86-2	2.917	0.010
XIX	Disodium octaborate*	12008-41-2	3.566	0.010
XXV	Orthoboric acid, sodium salt*	13840-56-7	10.710	0.005
-	Other tested SVHC in candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	005 Concentration (%)	RL (%)
III	Boric acid*	-	0.033	0.010
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.027	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.027	0.010
VII	Diboron trioxide*	1303-86-2	0.018	0.010
VIII	[Phthalato(2-)]dioxotrilead*	69011-06-9	1.559	0.010
VIII	Dioxobis(stearato)trilead*	12578-12-0	2.328	0.010
VIII	Fatty acids, C16-18, lead salts*	91031-62-8	4.423	0.010
VIII	Lead bis(tetrafluoroborate)*	13814-96-5	0.100	0.010
VIII	Lead cyanamidate*	20837-86-9	1.426	0.010
VIII	Lead dinitrate*	10099-74-8	1.895	0.010
VIII	Lead monoxide*	1317-36-8	1.277	0.010
VIII	Lead oxide sulfate*	12036-76-9	1.506	0.010
VIII	Lead tetroxide (orange lead)*	1314-41-6	1.308	0.010
VIII	Lead titanium trioxide*	12060-00-3	1.734	0.010
VIII	Lead titanium zirconium oxide*	12626-81-2	1.982	0.010
VIII	Pentalead tetraoxide sulphate*	12065-90-6	1.369	0.010
VIII	Pyrochlore, antimony lead yellow*	8012-00-8	2.203	0.010



# Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 15 of 55

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

Batch	Substance Name	CAS No.	005 Concentration (%)	RL (%)
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	1.512	0.010
VIII	Tetralead trioxide sulphate*	12202-17-4	1.392	0.010
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	1.480	0.010
VIII	Trilead dioxide phosphonate*	12141-20-7	1.399	0.010
X	Lead di(acetate)*	301-04-2	1.861	0.010
XIX	Disodium octaborate*	12008-41-2	0.022	0.010
XIX	Lead	7439-92-1	1.186	0.010
XXV	Orthoboric acid, sodium salt*	13840-56-7	0.067	0.005
-	Other tested SVHC in candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	006 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.048	0.010
XIX	Lead	7439-92-1	0.101	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 (%)
I	Diarsenic pentaoxide*	1303-28-2	0.074	0.010
XIX	Lead	7439-92-1	10.948	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	0.092	0.010
IX	Cadmium oxide*	1306-19-0	0.024	0.010
IX	Cadmium	7440-43-9	0.021	0.010
XVIII	Cadmium nitrate*	10325-94-7	0.045	0.010
XVIII	Cadmium carbonate*	513-78-0	0.033	0.010



## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 16 of 55

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

Batch	Substance Name	CAS No.	008 Concentration (%)	RL (%)
XVIII	Cadmium hydroxide*	21041-95-2	0.028	0.010
XIX	Lead	7439-92-1	17.262	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 (%)
VII	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	1.044	0.100
-	Other tested SVHC in candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	010 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.974	0.010





## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 17 of 55

### 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.
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), Orthoboric acid, sodium salt), 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.



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## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 18 of 55

### 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	0.100
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	0.100
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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## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 19 of 55

### Appendix

#### Full list of tested SVHC:

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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# Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 20 of 55

## Appendix

### Full list of tested SVHC:

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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## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 21 of 55

### Appendix

#### Full list of tested SVHC:

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



## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 22 of 55

### Appendix

#### Full list of tested SVHC:

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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# Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 23 of 55

## 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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## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 24 of 55

### Appendix

#### Full list of tested SVHC:

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	0.010
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.010
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	0.100
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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## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 25 of 55

### Appendix

#### Full list of tested SVHC:

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



## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 26 of 55

### Appendix

#### Full list of tested SVHC:

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	0.100
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



# Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 27 of 55

## Appendix

### 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	Dodecamethylcyclhexasiloxane (D6)	540-97-6	0.100



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## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 28 of 55

### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	188	Ethylenediamine	107-15-3	0.100
XIX	189	Lead	7439-92-1	0.010
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	0.100
XXII	204	Diisohexyl phthalate	71850-09-4	0.100
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.100



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# Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 29 of 55

## Appendix

### 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
XXV	212	1,4-dioxane	123-91-1	0.100
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.100
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.100
XXV	215	4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	77-40-7	0.100
XXV	216	Glutaral	111-30-8	0.100
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.100
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.100



## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 30 of 55

### REMARK :

DC24320M024, DC24320M028, DC32480M035, DC32240M035, DC48480M040, DC80480M043, DC48270M043, DC80480M050, DC72128M050, DC48854M050, DC64480M056, DC80480M070, DC10600M070, DC80600M080, DC10600M101, DC80600M104, DC10600M070AV, DC80600M080AV, DC80600M104AV, DC10768M104AV, DC12800M121, DC10768M121, DC10768M150, DC10768KM150, DC13768M156, DC13768M185, DC48270KM043, DC80480KM043, DC80480KM050, DC80480KM070, DC10600KM070, DC10600KM101, DC10600KM101AV, DC48270AM043, DC80480AM043, DC80480AM050, DC80480AM070, DC10600AM070, DC80600AM080, DC10600AM101, DC10600KPM070, DC48270CM043, DC80480CM043, DC80480CM050, DC80480CM070, DC10600CM070, DC80600CM080, DC10600CM101, DC32240BM035, DC48270BM043, DC80480BM043, DC80480BM050, DC64480BM056, DC80480BM070, DC10600BM070, DC80600BM080, DC10600BM101, DC80600BM104, DC80480GM070, DC10600GM070, DC80600MVGA, DC10768MVGA, 1GZBL48270M043, 1GZBL80480M043, 1GZBL80480M070, 3SZCX48270M043, 4SZCX48800M043, 5SZCX48800M043, 1FSYS80480M050, 1FSYS10600M070, 1SZMH10600KM070, 1MHME10600KM070, 1SZAT80480KBM070, DC80480SZAT070, DC48270YWK043, DC80480YWK070, 1SZBL32480F035



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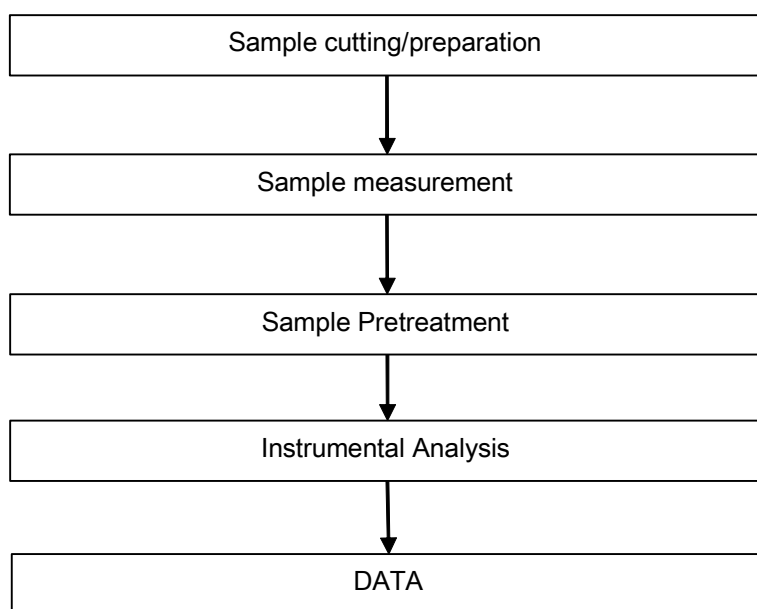
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## ATTACHMENTS

### SVHC Testing Flow Chart



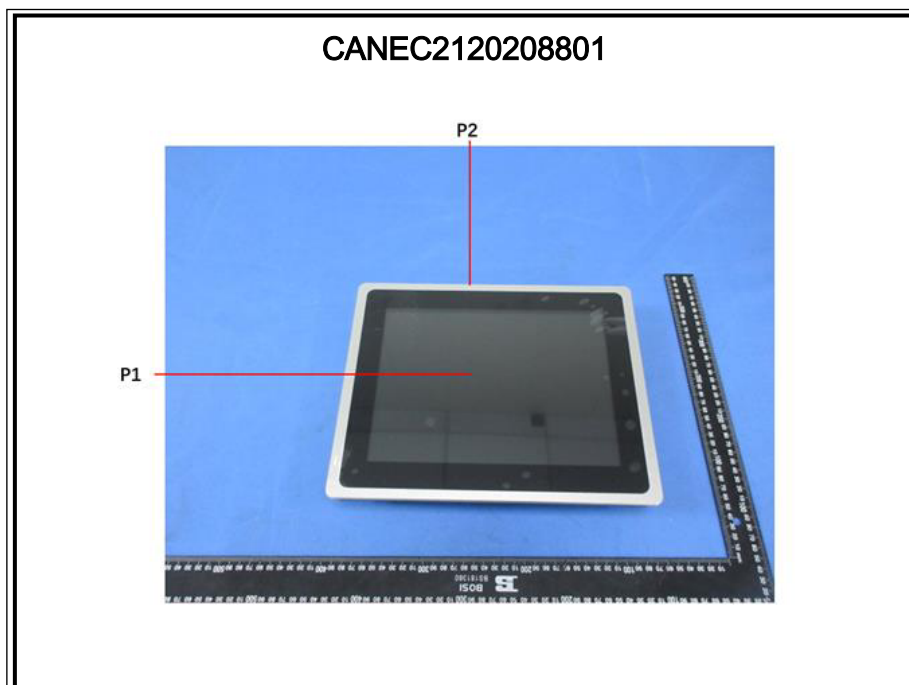
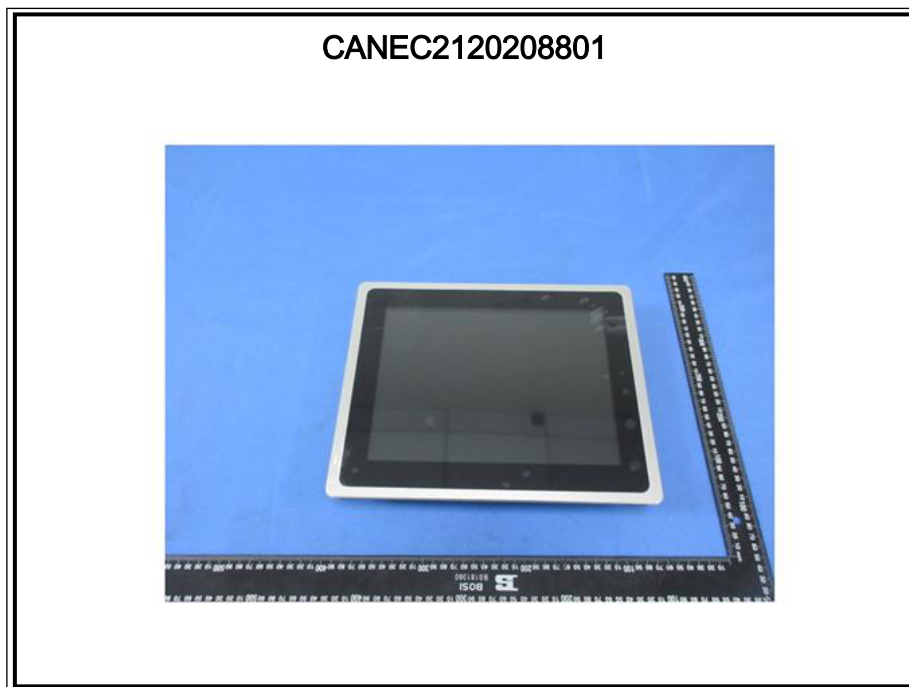
## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 32 of 55

Sample photo:



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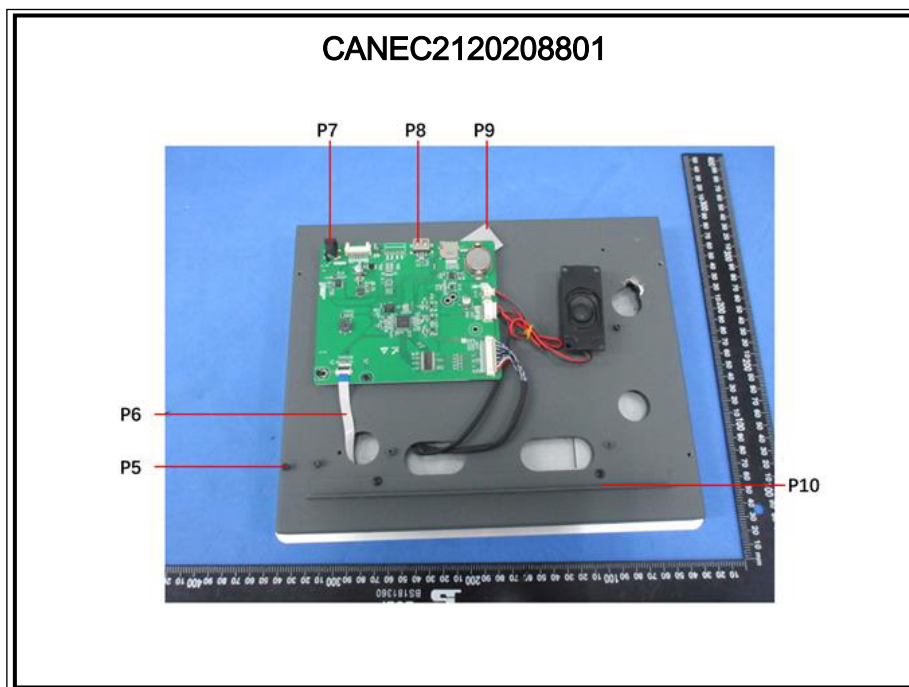
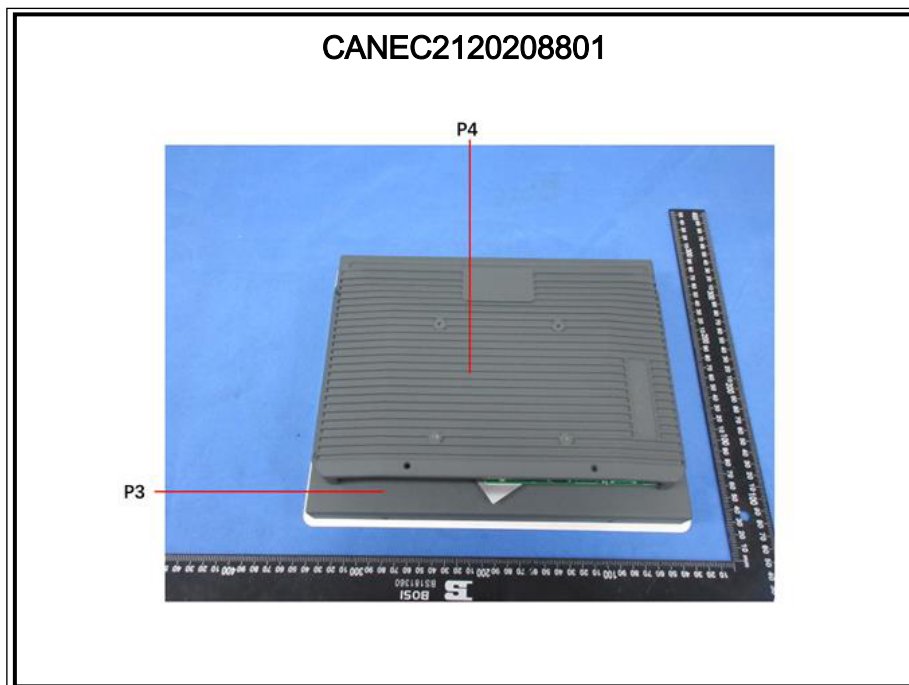
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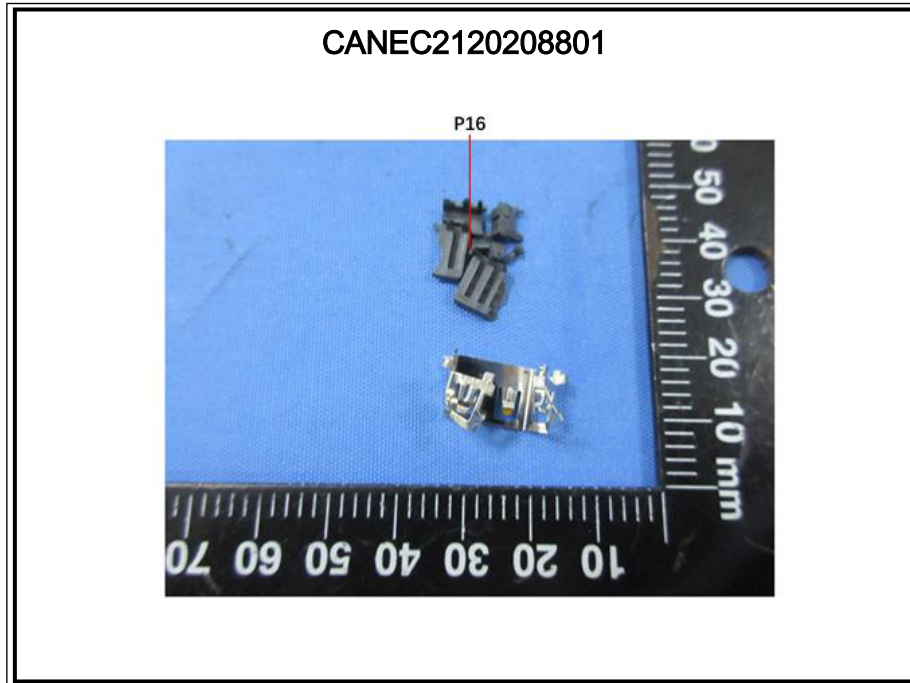
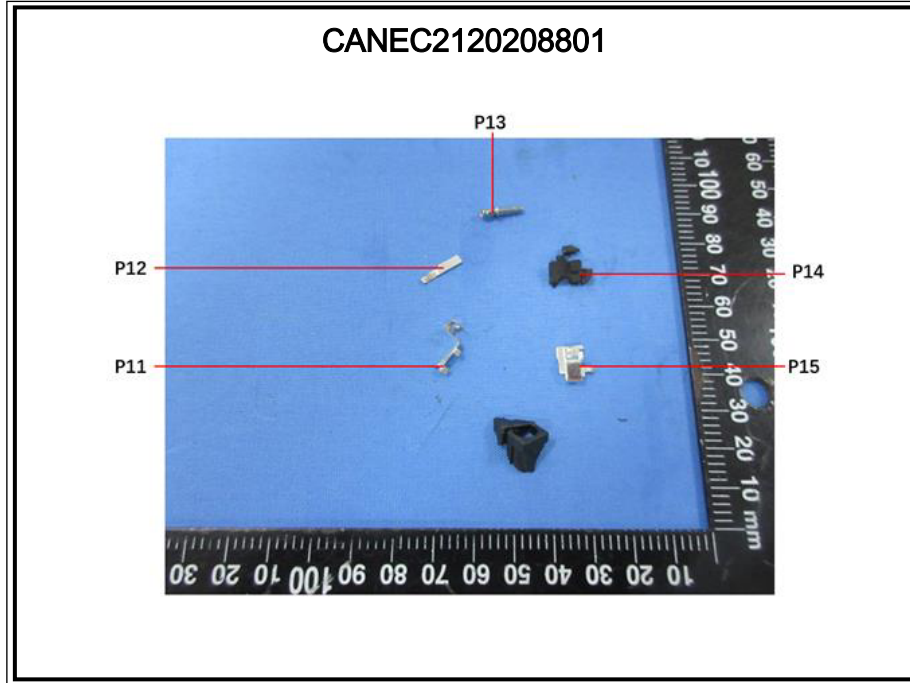
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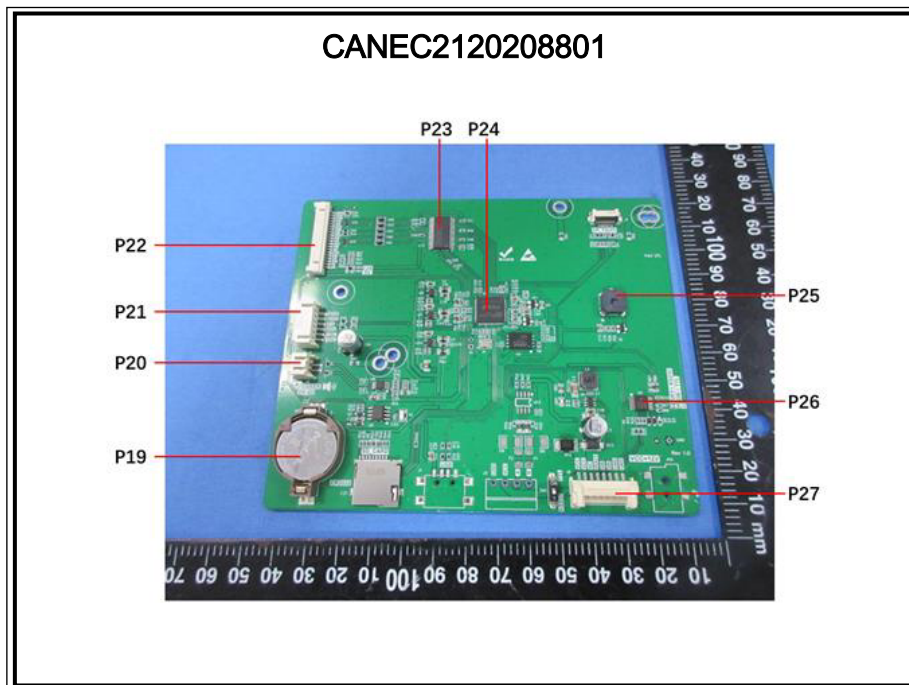
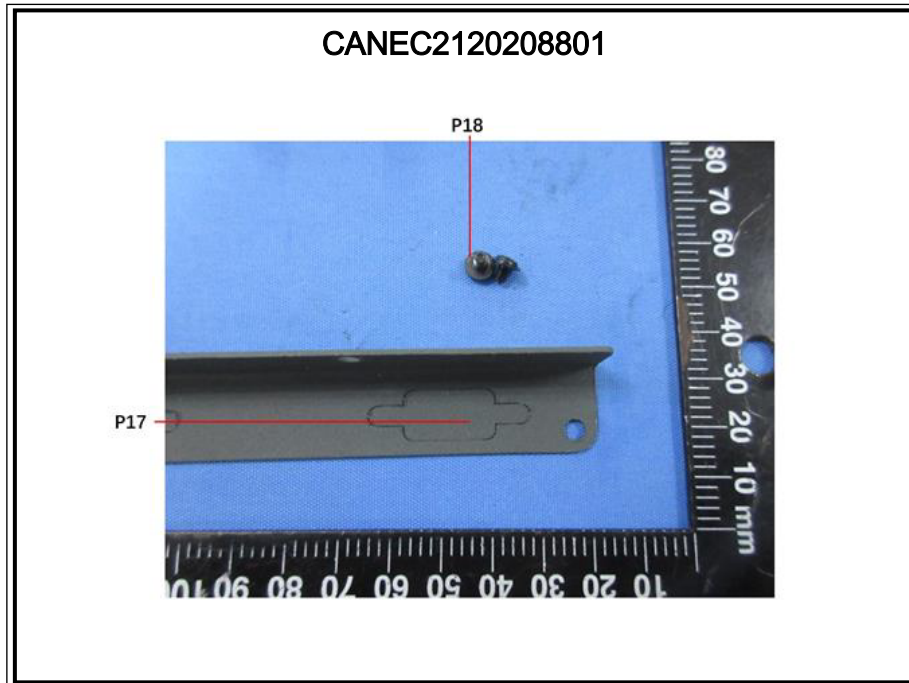
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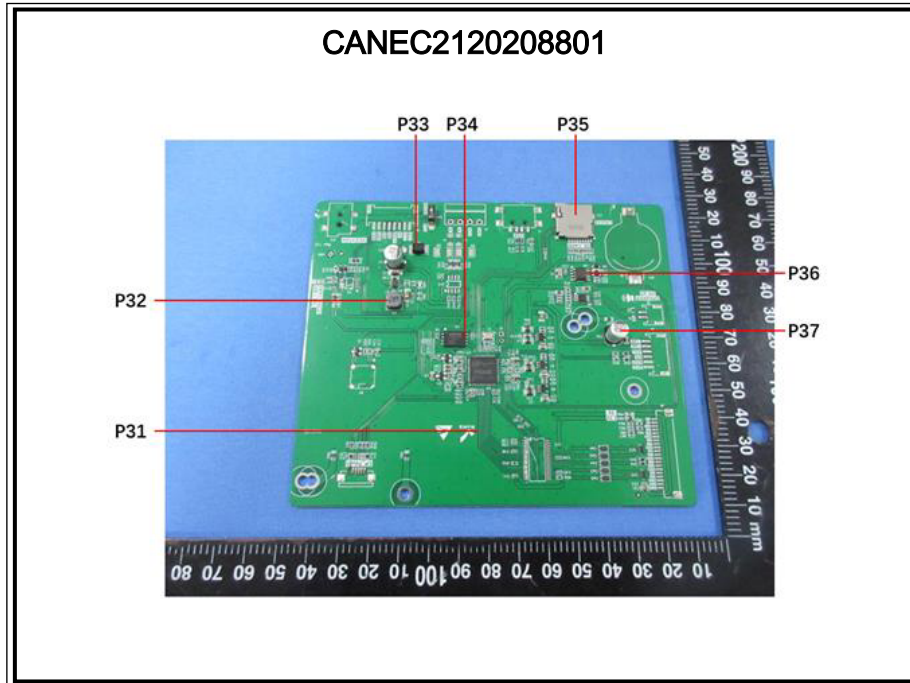
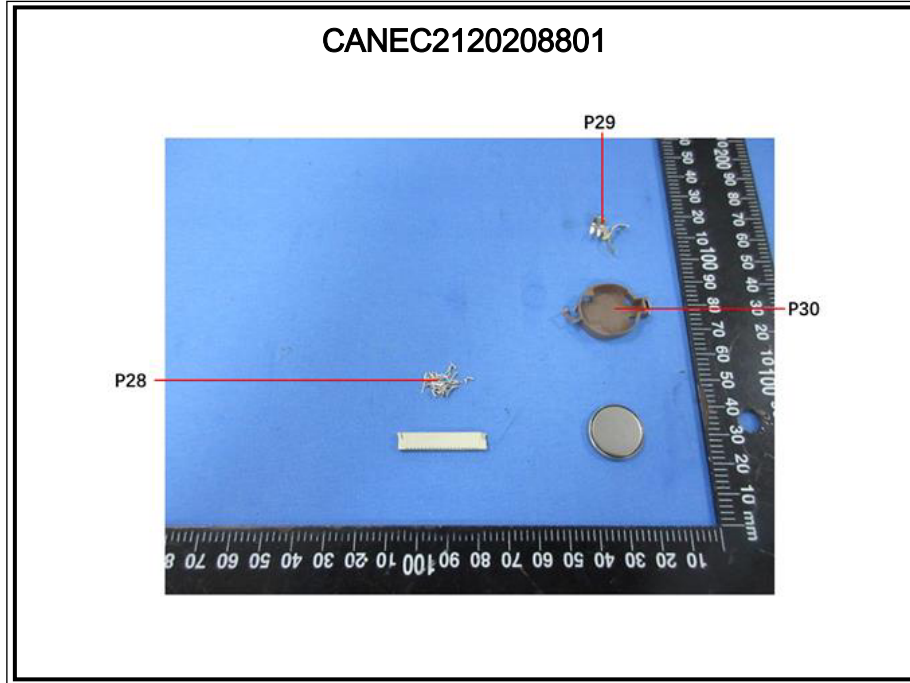




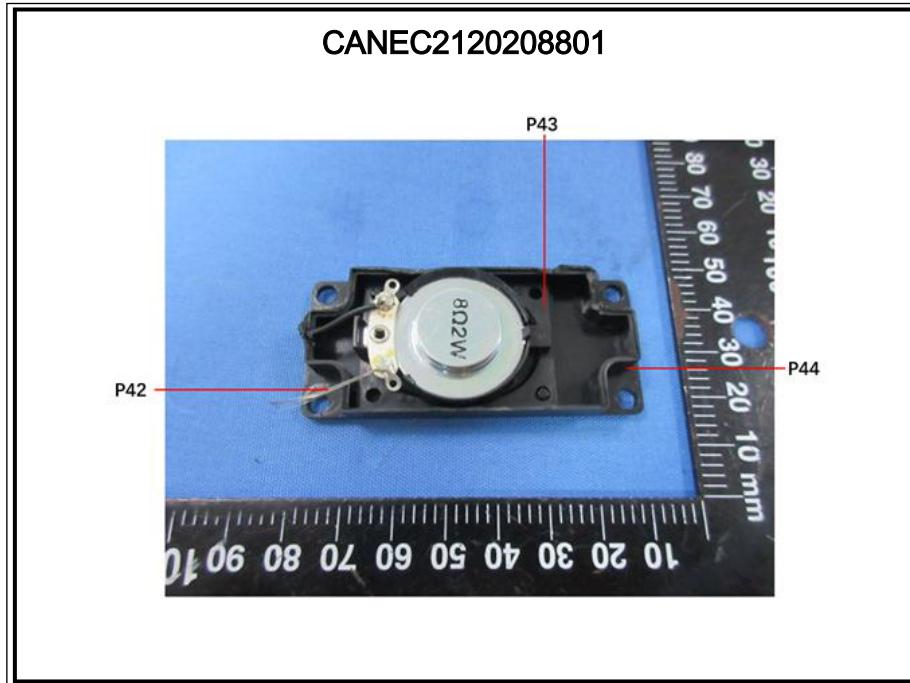
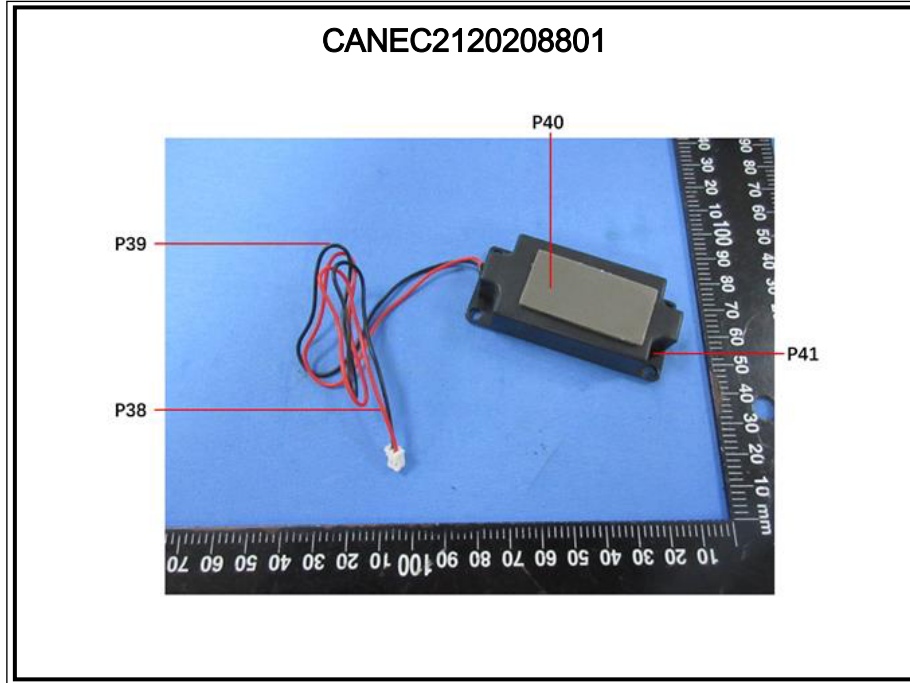


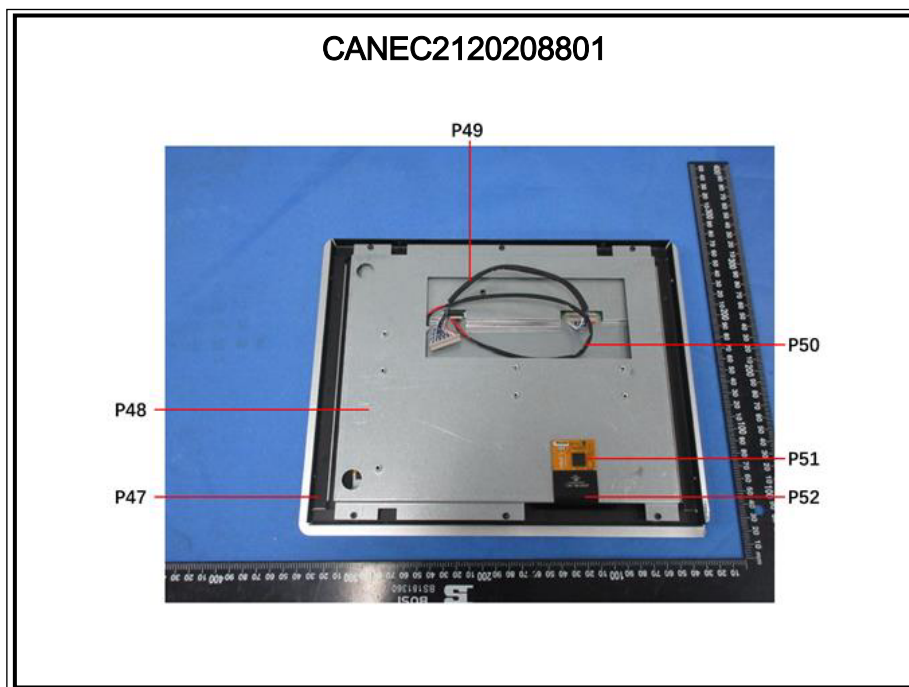
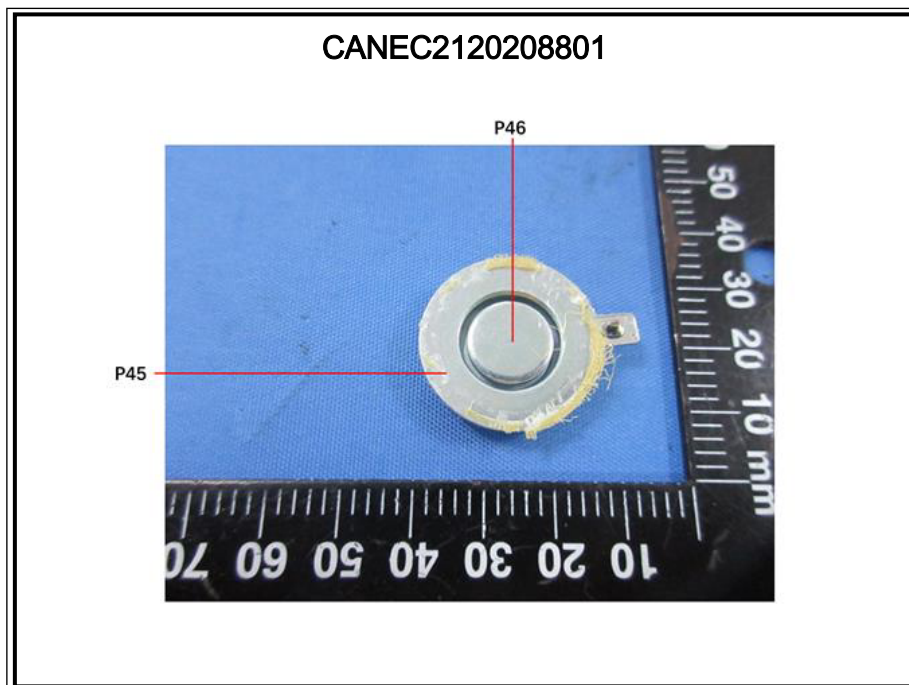


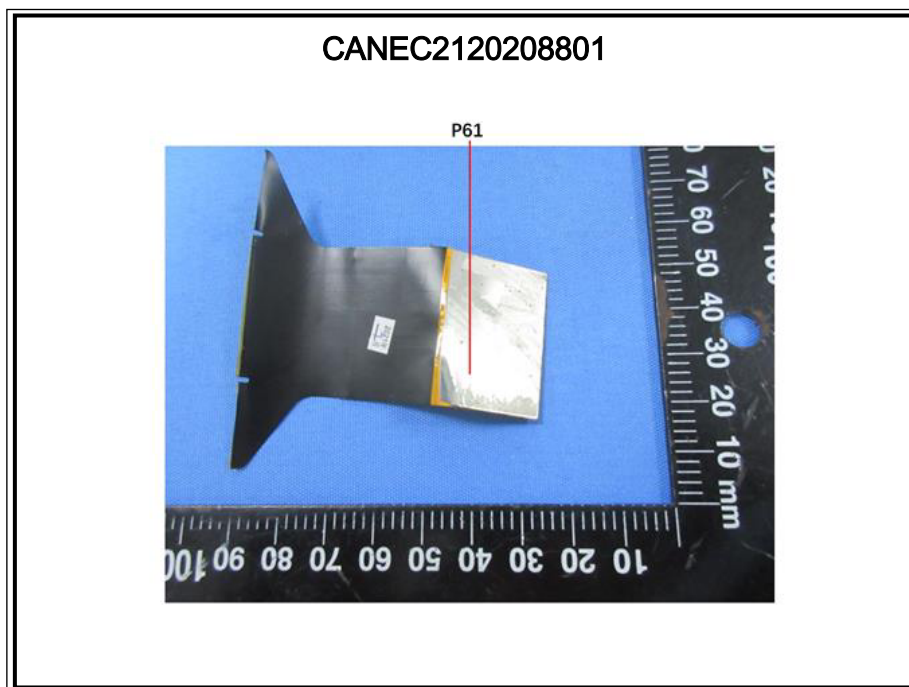
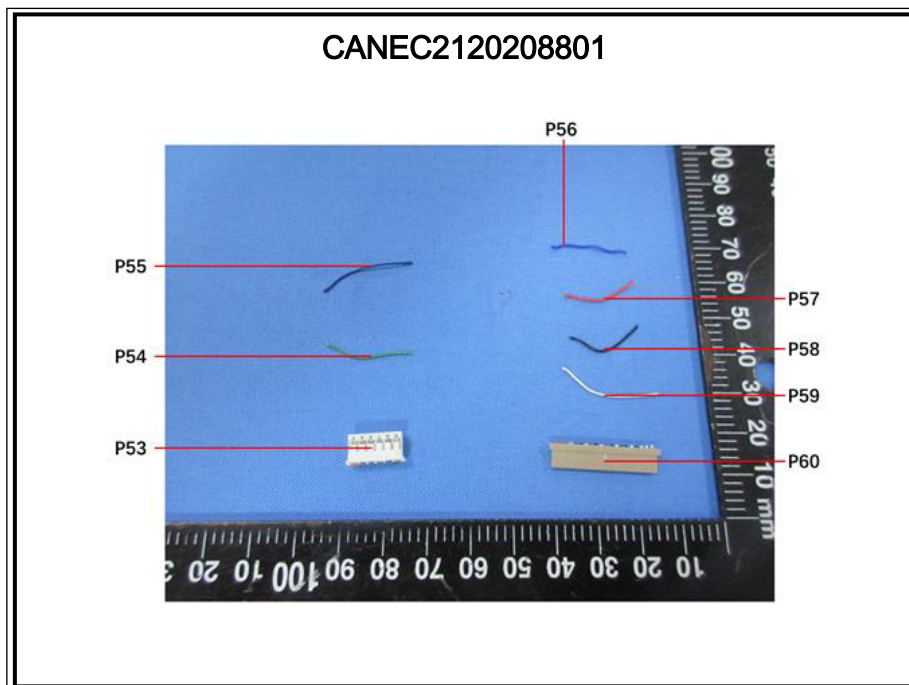




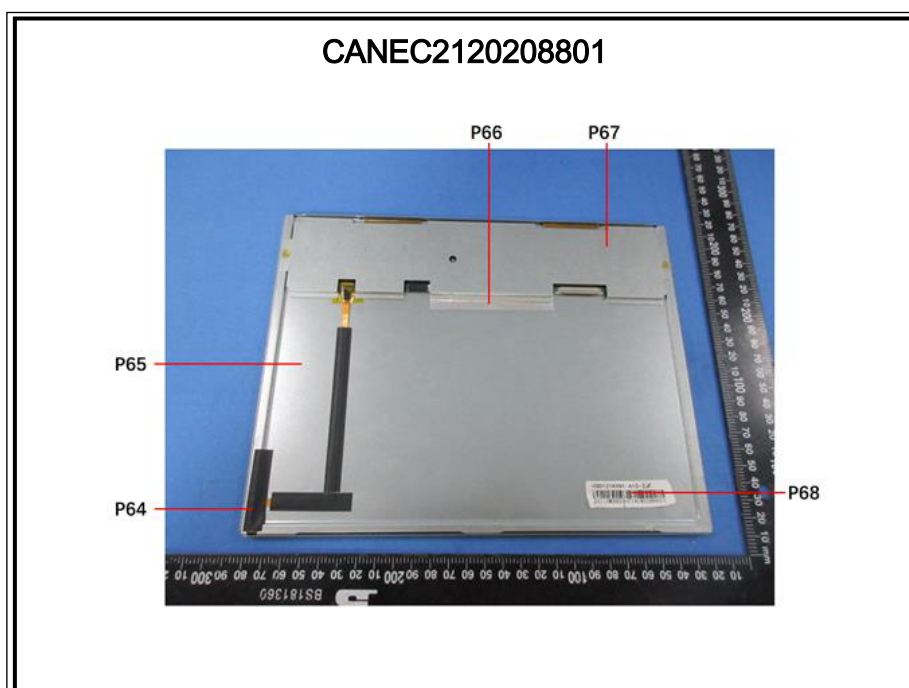
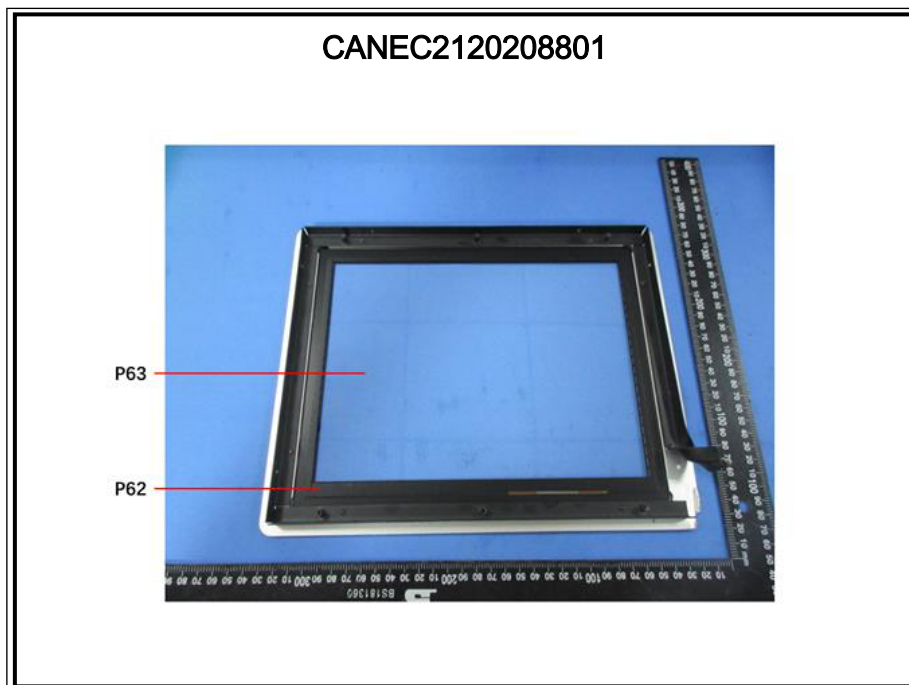




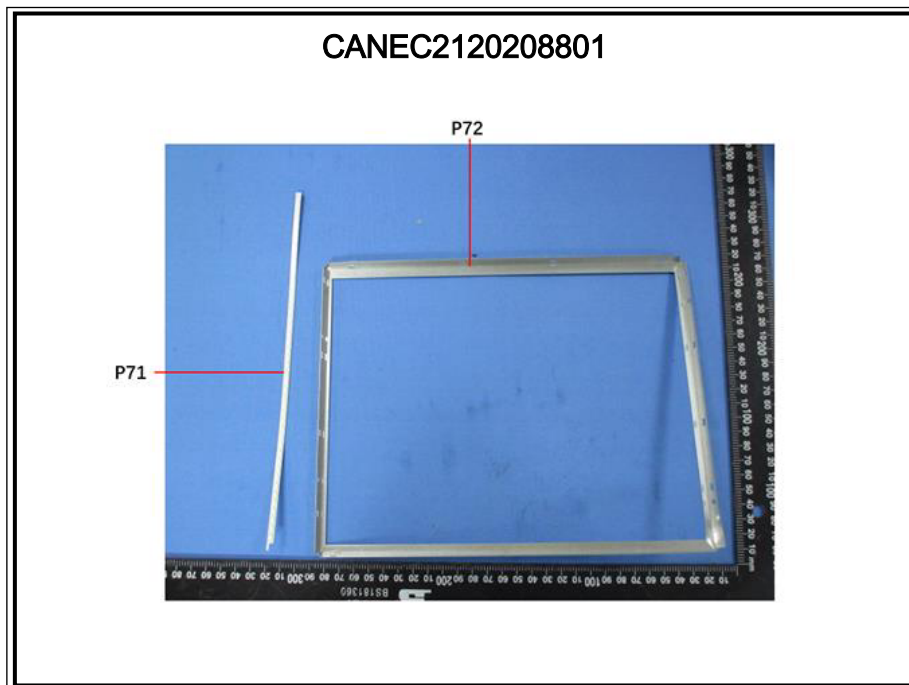
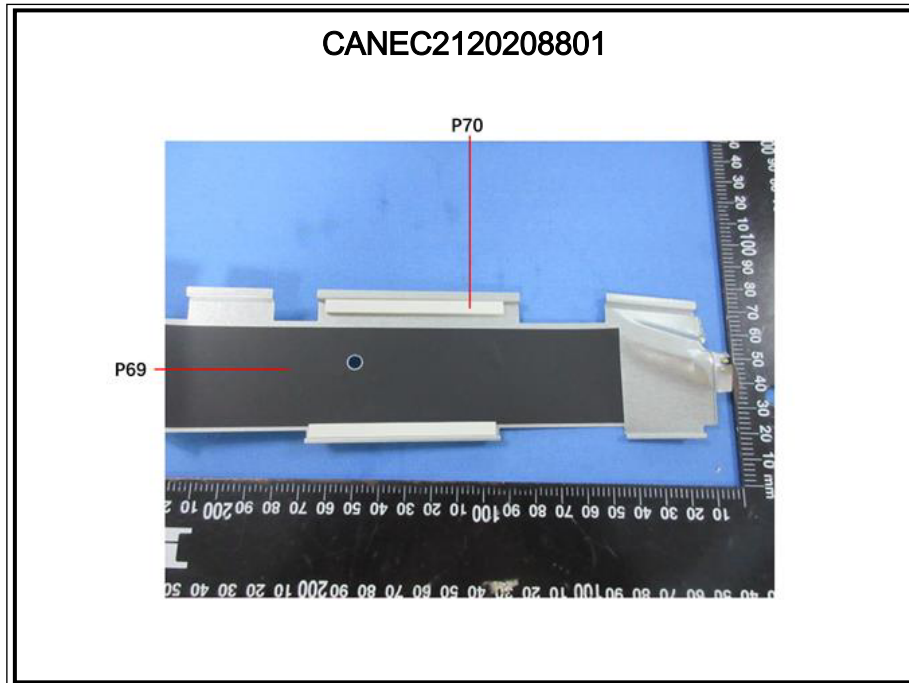










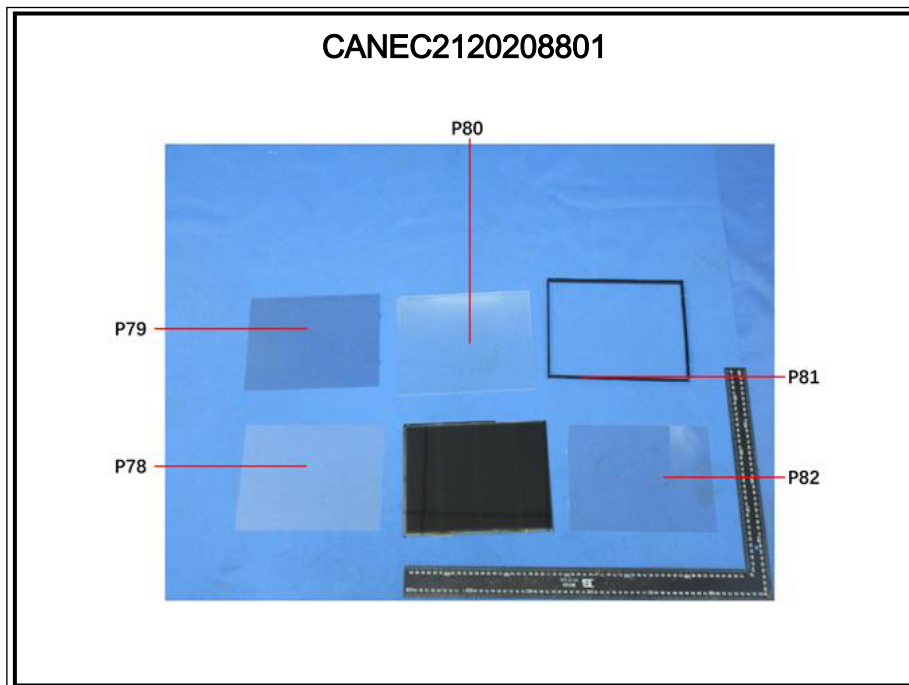
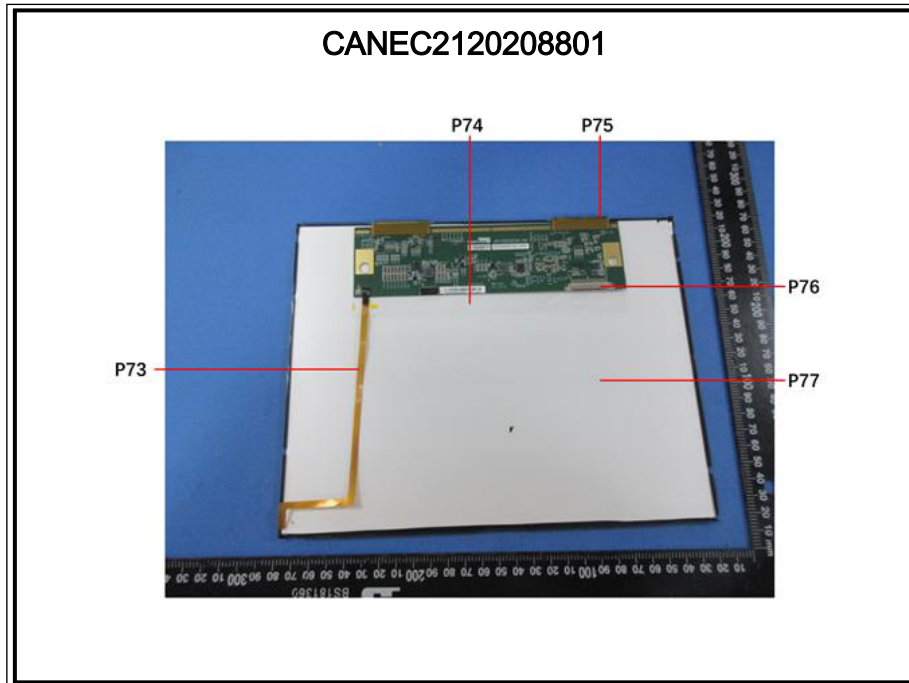


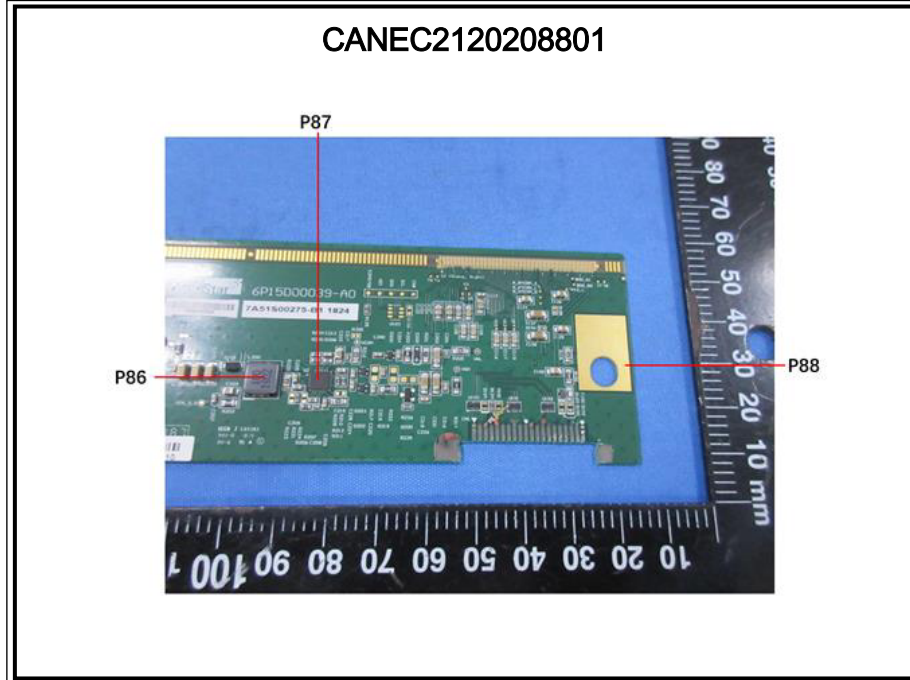
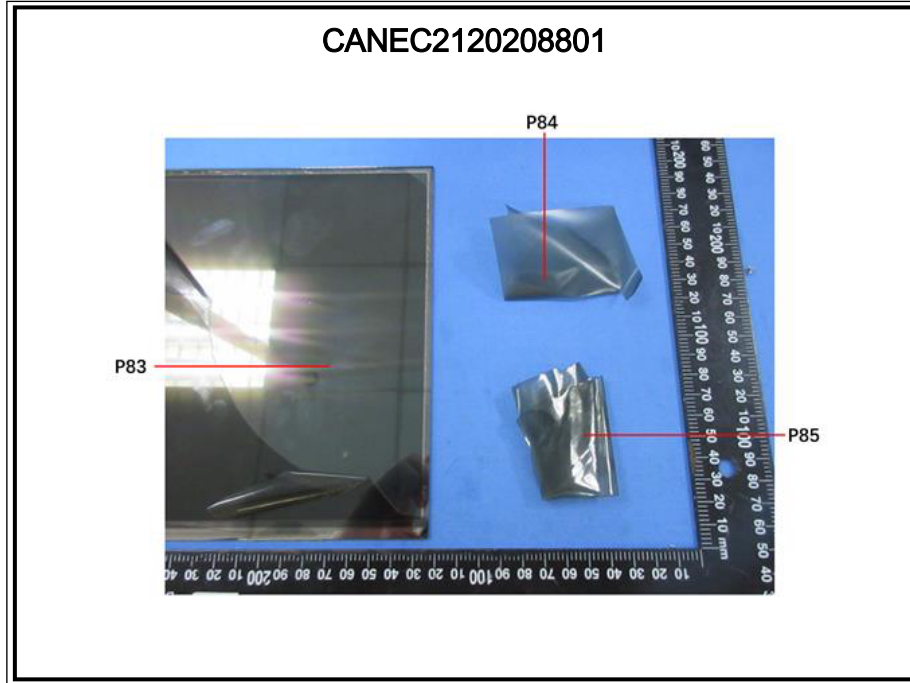
## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 42 of 55







CANEC2120208801



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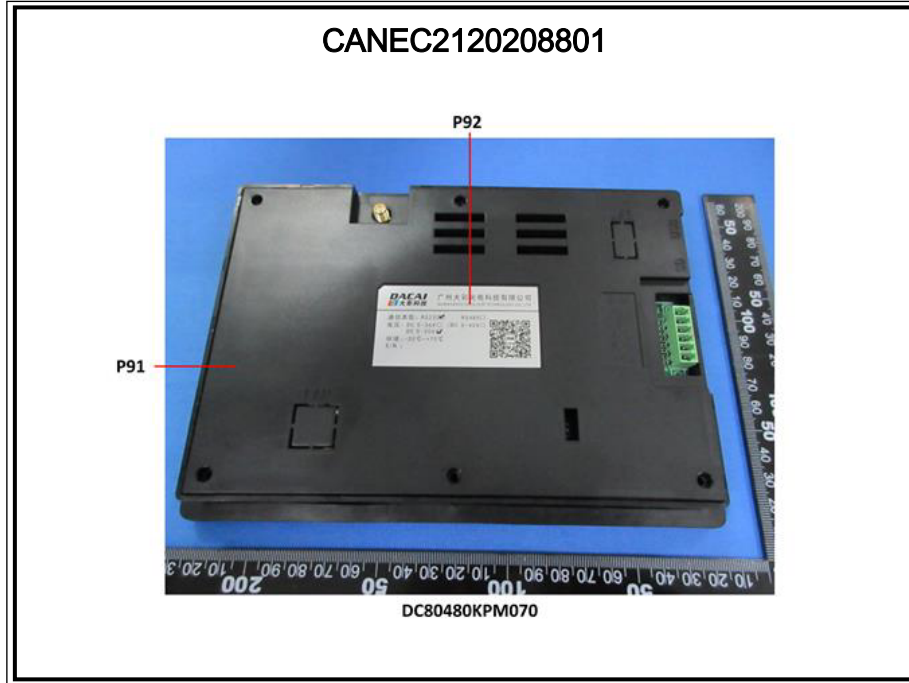
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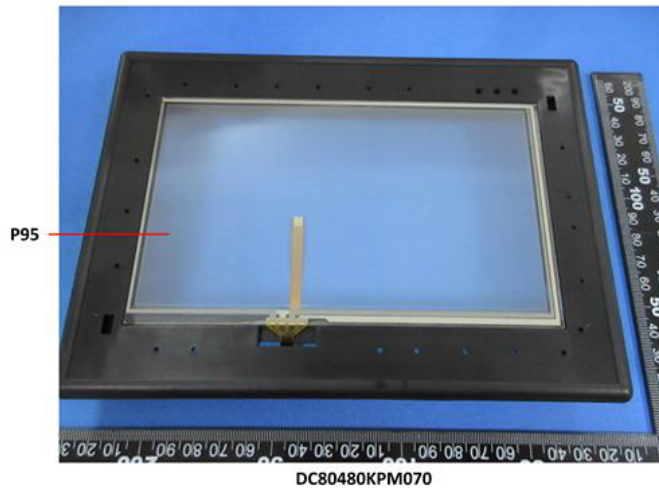
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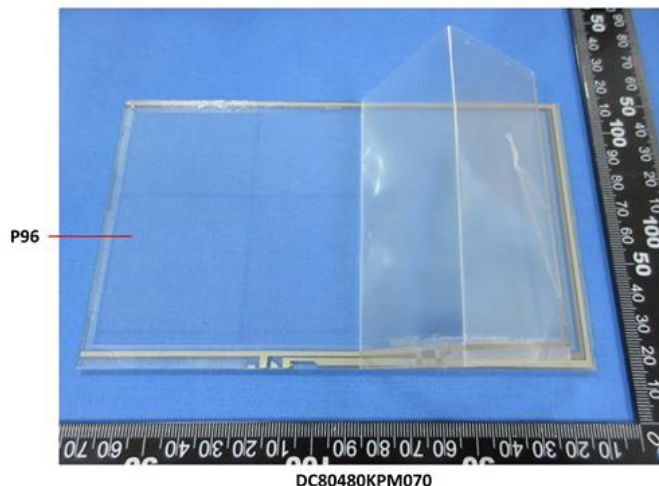


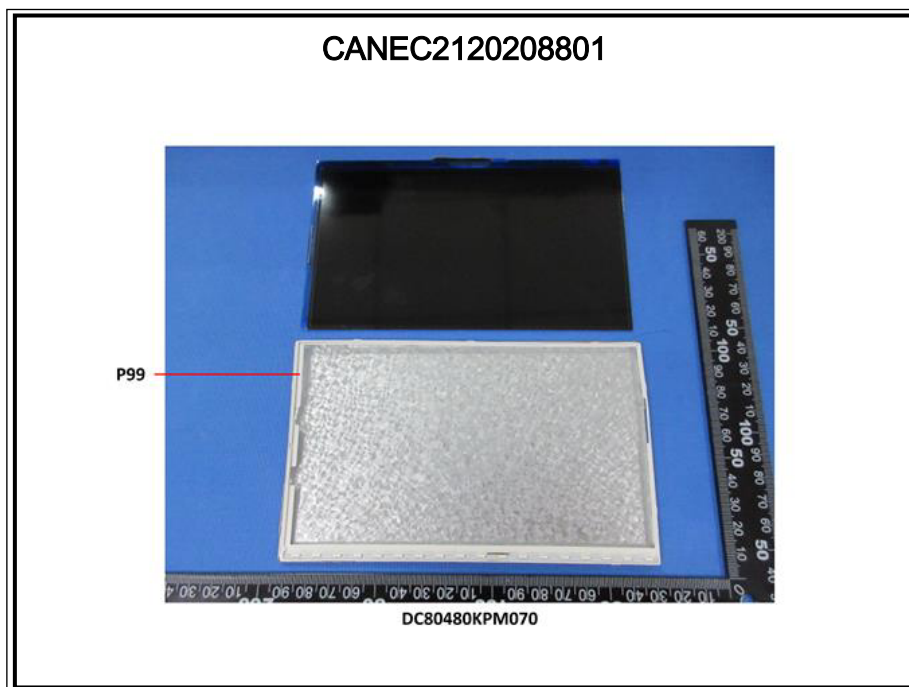
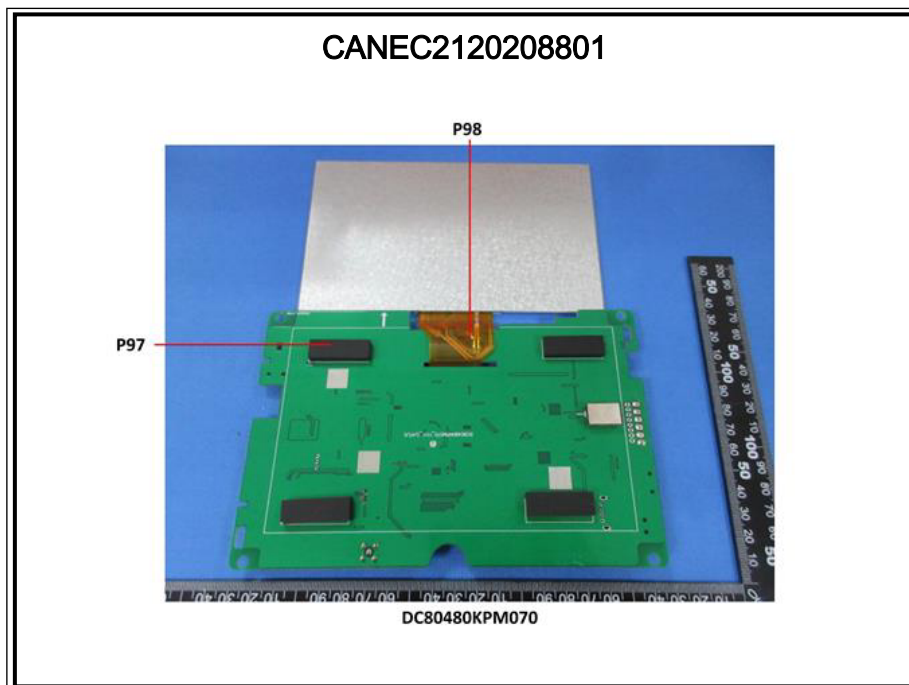


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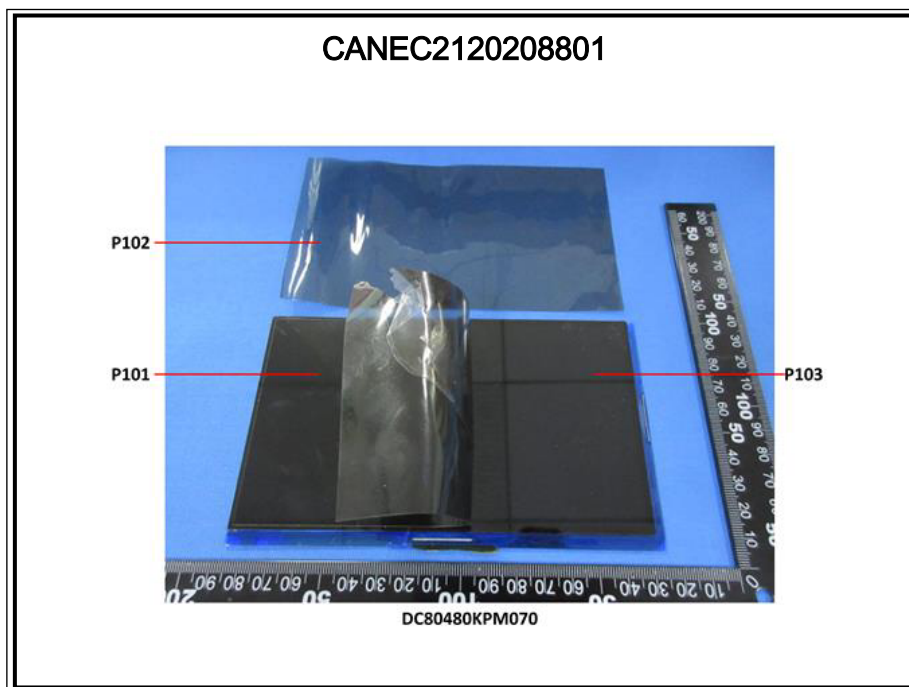
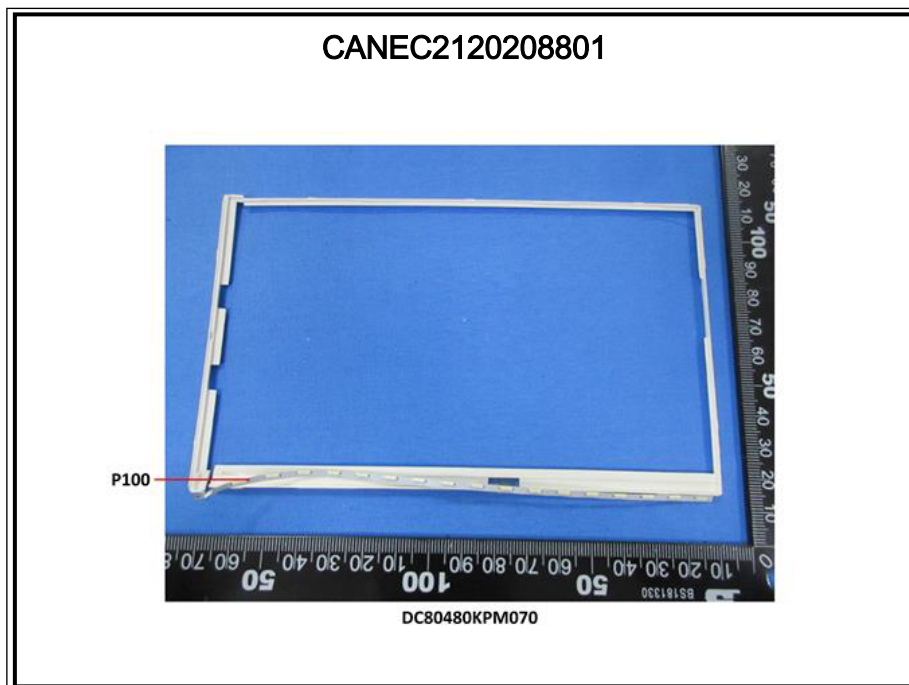


## Test Report (SVHC)

No. CANEC2120208801

Date: 19 Nov 2021

Page 48 of 55



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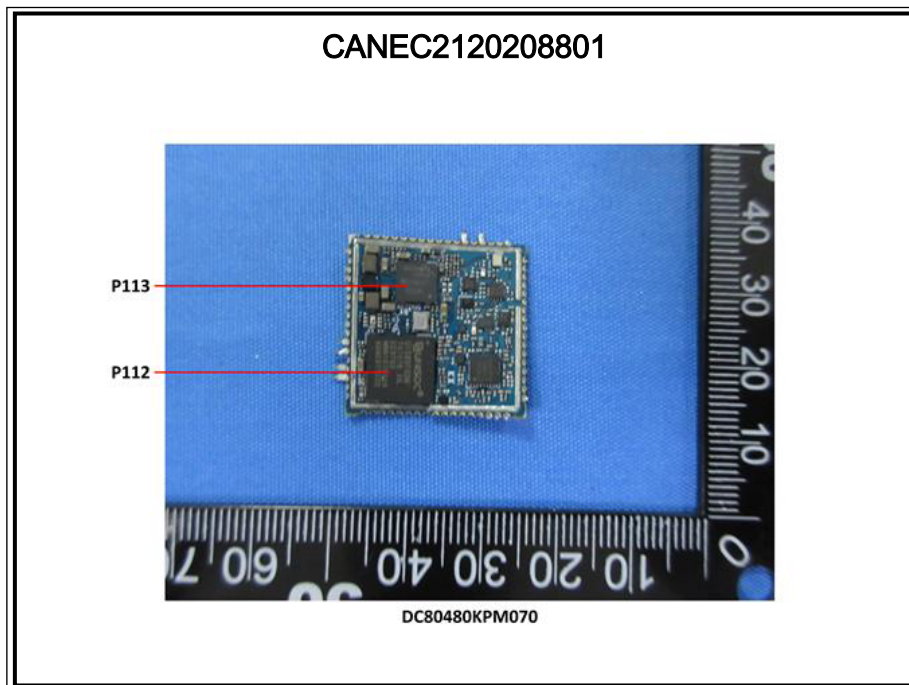
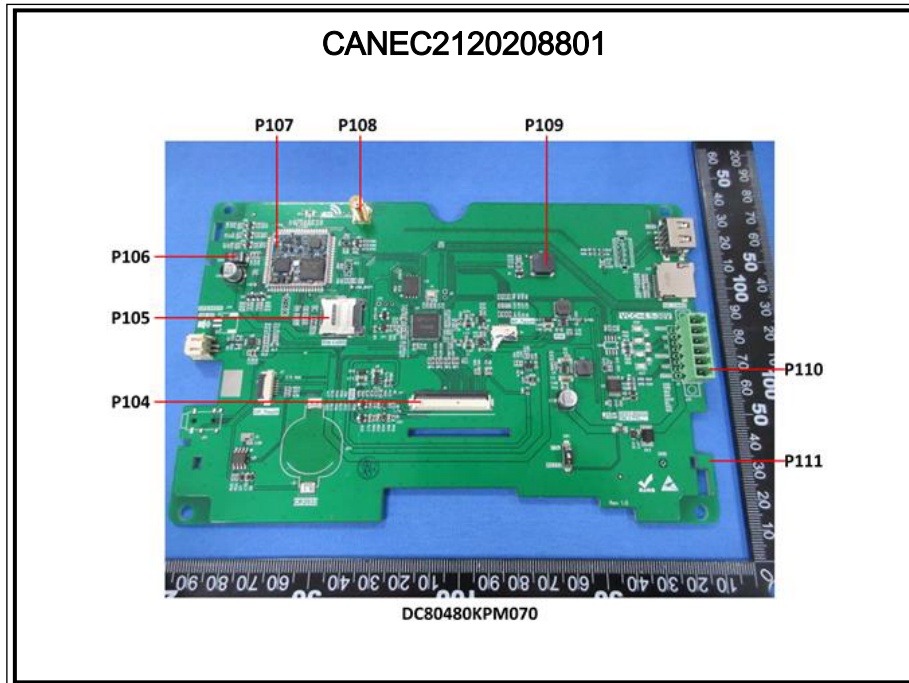
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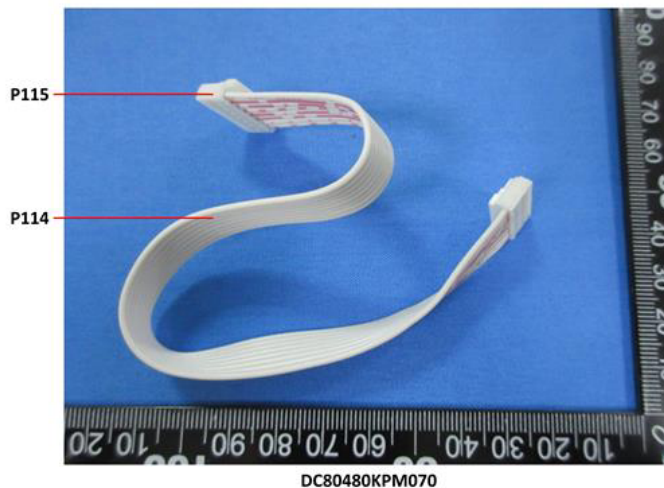
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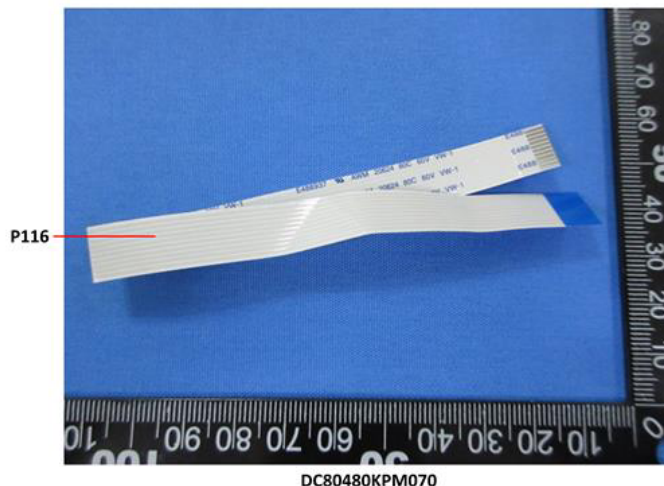


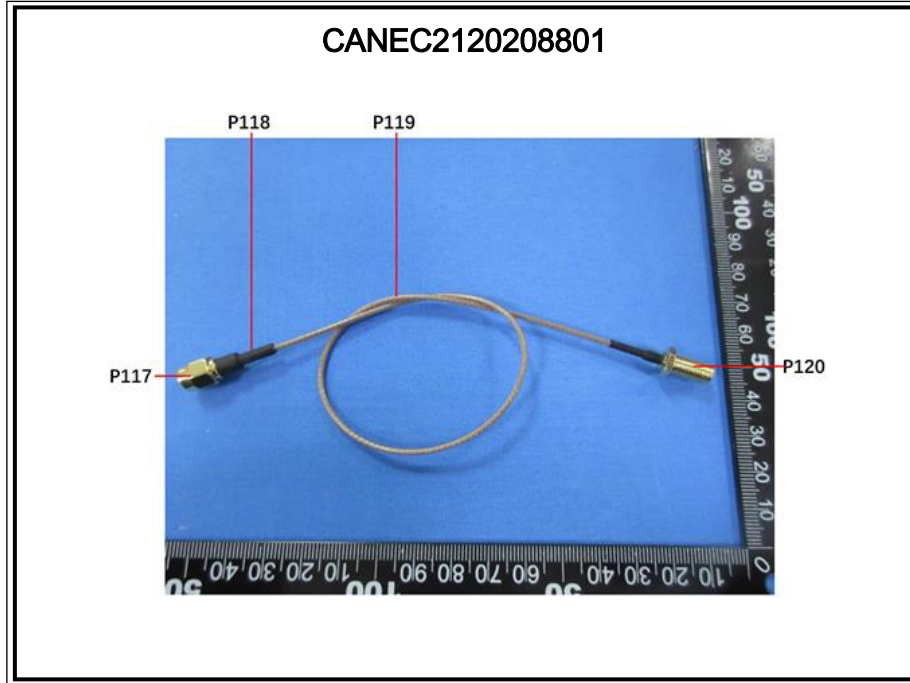


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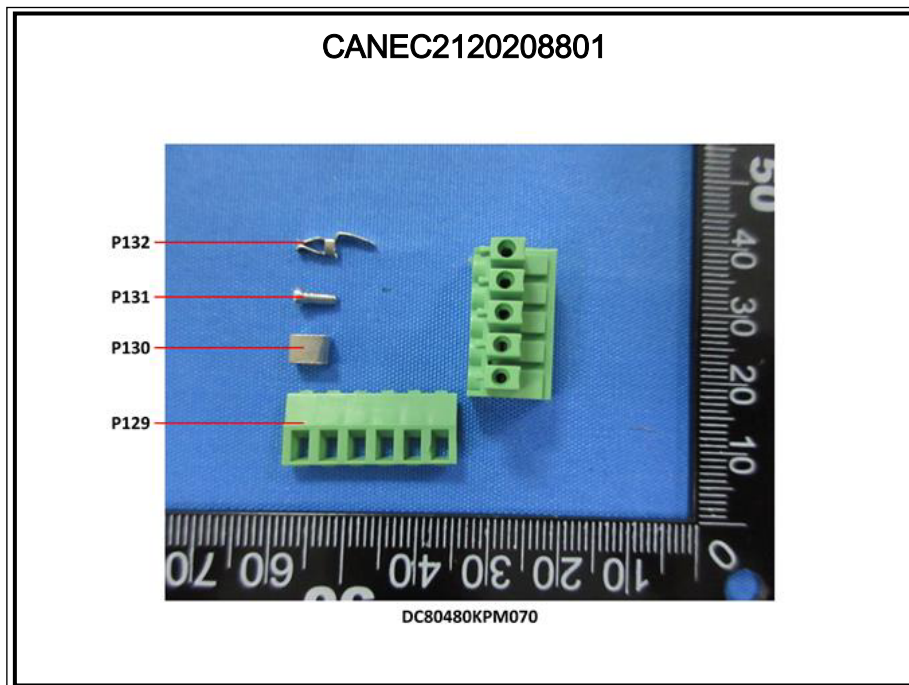
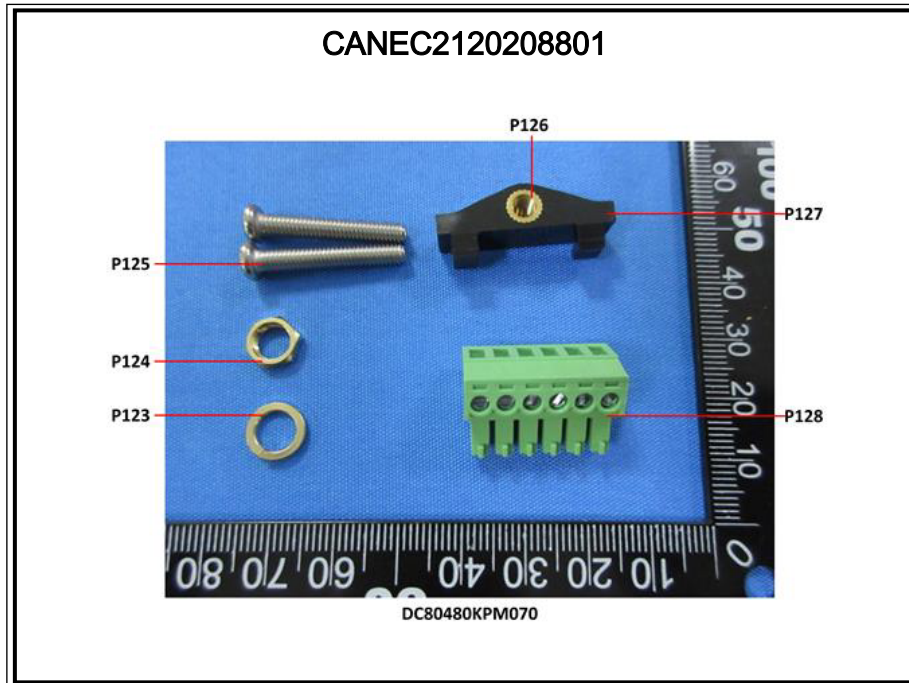


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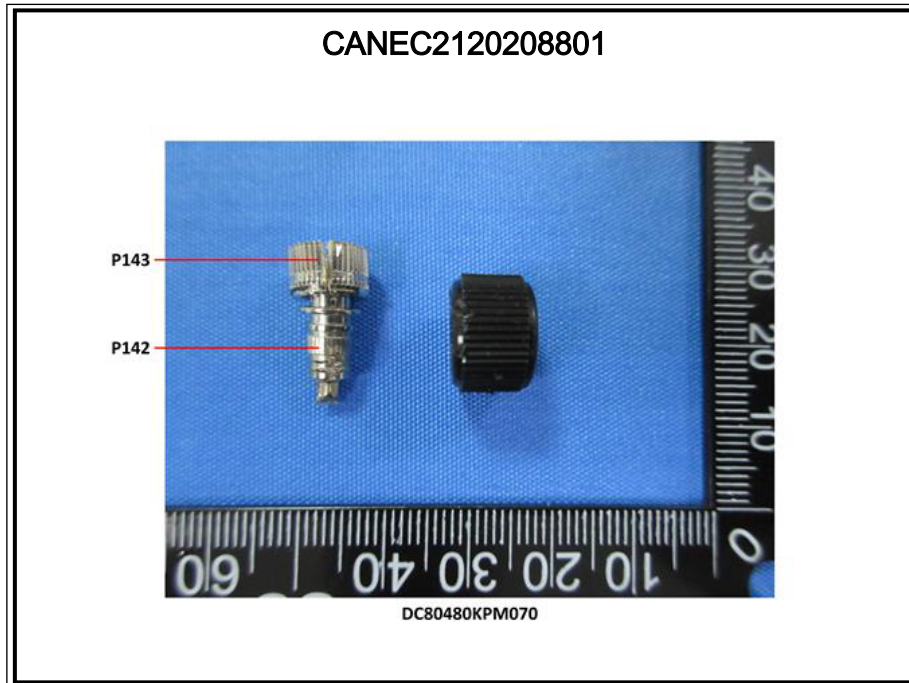












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No. CANEC2120208801

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Page 55 of 55

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