

Test Report (SVHC)

No. SZXEC2103342405

Date: 23 Feb 2022

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Client Name : SHENZHEN RAKWIRELESS TECHNOLOGY CO., LTD

Client Address : ROOM 506, BUILDING B, NEW COMPARK, PINGSHAN FIRST ROAD, TAOYUAN STREET,
NANSAN DISTRICT, SHENZHEN, GUANGDONG, CHINA

Sample Name : WisGate

Model No. : RAK7289C

Client Ref. Info. : RAK7289, RAK7289V2, RAK7289CV2

The above sample(s) and information were provided by the client.

This report is to supersede test report SZXEC2103342404

SGS Job No. : RP21-025327 - SZ

Date of Sample Received : 29 Oct 2021

Testing Period : 29 Oct 2021 - 22 Dec 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.
- (ii) One (1) potential Substances of Very High Concern (SVHC) in the notification of WTO on Jun 1, 2021.

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 001-P63, 001-P68, 002-P30, 005-P51, 005-P65, 005-P74, 005-P75, 005-P78, 005-P80, 010-P23, 010-P27, 010-P43, 010-P44, 010-P88, 010-P90, 010-P92, 167.	See remark 2 for obligation under REACH
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Shenzhen Branch Testing Center of Chemical Laboratory

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Test Report (SVHC)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Kitty Xu
Approved Signatory

scan to see the report



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

Test Result ID	Description	Substance Name	CAS No.	Concentration (%)
001-P63	Black plastic part	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.132
001-P63	Black plastic part	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.281
001-P68	Black plastic part	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.122
001-P68	Black plastic part	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.260
002-P30	Red plastic (wire insulation)	Dibutyl phthalate (DBP)	84-74-2	0.124
005-P51	Silvery metal part	Lead	7439-92-1	2.527
005-P65	Silvery metal screw	Lead	7439-92-1	2.946
005-P74	Golden metal part	Lead	7439-92-1	2.721
005-P75	Silvery metal nut	Lead	7439-92-1	2.757
005-P78	Silvery metal part	Lead	7439-92-1	2.720
005-P80	Golden metal part	Lead	7439-92-1	2.903
010-P23	Black "IC" body	Lead	7439-92-1	2.247
010-P27	Black "IC" body	Lead	7439-92-1	1.984
010-P43	Black "IC" body	Lead	7439-92-1	0.488
010-P44	Black "IC" body	Lead	7439-92-1	1.699
010-P88	Black "IC" body	Lead	7439-92-1	0.978

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Test Result ID	Description	Substance Name	CAS No.	Concentration (%)
010-P90	Black "IC" body	Lead	7439-92-1	1.333
010-P92	Black "IC" body	Lead	7439-92-1	1.466
167	Golden metal part (Improve sample 004-P7 submit by 2021-12-15)	Lead	7439-92-1	2.763

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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 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	Non-metal group (confirmation test)	SZX21-033424.001
SN2	002	Non-metal group (confirmation test)	SZX21-033424.002
SN3	003	Non-metal group (confirmation test)	SZX21-033424.003
SN4	004	Metal group (confirmation test)	SZX21-033424.004
SN5	005	Metal group (confirmation test)	SZX21-033424.005
SN6	006	Metal group	SZX21-033424.006
SN7	007	Non-metal group	SZX21-033424.007
SN8	008	Metal group	SZX21-033424.008
SN9	009	Non-metal group	SZX21-033424.009
SN10	010	Non-metal group (confirmation test)	SZX21-033424.010
SN11	011	Non-metal group	SZX21-033424.011

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SN12	012	Non-metal group	SZX21-033424.012
SN13	010-P23	Black "IC" body	SZX21-033424.013
SN14	010-P27	Black "IC" body	SZX21-033424.014
SN15	010-P43	Black "IC" body	SZX21-033424.015
SN16	010-P44	Black "IC" body	SZX21-033424.016
SN17	010-P47	Black "IC" body	SZX21-033424.017
SN18	010-P48	Black "IC" body	SZX21-033424.018
SN19	010-P55	Black "IC" body	SZX21-033424.019
SN20	010-P56	Black "IC" body	SZX21-033424.020
SN21	010-P57	Black "IC" body	SZX21-033424.021
SN22	010-P88	Black "IC" body	SZX21-033424.022
SN23	010-P89	Black "IC" body	SZX21-033424.023
SN24	010-P90	Black "IC" body	SZX21-033424.024
SN25	010-P91	Black "IC" body	SZX21-033424.025
SN26	010-P92	Black "IC" body	SZX21-033424.026
SN27	001-P1	Translucent plastic part	SZX21-033424.087
SN28	001-P5	White plastic part with black surface	SZX21-033424.088
SN29	001-P21	White plastic part	SZX21-033424.089
SN30	001-P22	Black plastic shell	SZX21-033424.090
SN31	001-P26	Coppery enameled wire	SZX21-033424.091
SN32	001-P31	White plastic part	SZX21-033424.092
SN33	001-P35	Gray plastic part	SZX21-033424.093
SN34	001-P40	Gray plastic part	SZX21-033424.094
SN35	001-P41	Gray plastic part	SZX21-033424.095
SN36	001-P63	Black plastic part	SZX21-033424.096
SN37	001-P68	Black plastic part	SZX21-033424.097
SN38	001-P72	Black plastic part	SZX21-033424.098
SN39	001-P73	Cyan plastic part	SZX21-033424.099
SN40	001-P79	White plastic part	SZX21-033424.100
SN41	001-P81	Gray plastic part	SZX21-033424.101
SN42	001-P86	Coppery enameled wire	SZX21-033424.102
SN43	002-P6	Translucent rubber ring	SZX21-033424.103
SN44	002-P10	Gray wire	SZX21-033424.104
SN45	002-P11	Black wire	SZX21-033424.105
SN46	002-P12	White wire	SZX21-033424.106
SN47	002-P29	Black wire (Submit by 2021-12-6)	SZX21-033424.107

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SN48	002-P30	Red plastic (wire insulation)	SZX21-033424.108
SN49	002-P59	Black heat shrinkable tube (Submit by 2021-12-6)	SZX21-033424.109
SN50	002-P60	Red wire (Submit by 2021-12-6)	SZX21-033424.110
SN51	002-P61	Black wire (Submit by 2021-12-6)	SZX21-033424.111
SN52	002-P64	Black rubber part	SZX21-033424.112
SN53	002-P67	Black rubber ring	SZX21-033424.113
SN54	002-P69	Black rubber part	SZX21-033424.114
SN55	002-P70	Black rubber ring	SZX21-033424.115
SN56	002-P77	Red rubber ring (Submit by 2021-12-6)	SZX21-033424.116
SN57	002-P82	Red rubber ring (Submit by 2021-12-6)	SZX21-033424.117
SN58	002-P87	Brown transparent plastic adhesive tape	SZX21-033424.118
SN59	002-P94	Red rubber ring (Submit by 2021-12-6)	SZX21-033424.119
SN60	003-P13	Pink material with silvery surface	SZX21-033424.120
SN61	003-P15	Green "PCB"	SZX21-033424.121
SN62	003-P25	Green magnet core	SZX21-033424.122
SN63	003-P28	Green "PCB"	SZX21-033424.123
SN64	003-P37	Yellow capacitor body	SZX21-033424.124
SN65	003-P42	Black electrolytic capacitor body	SZX21-033424.125
SN66	003-P45	White electron component body	SZX21-033424.126
SN67	003-P49	Blue "PCB"	SZX21-033424.127
SN68	003-P50	Black "PCB"	SZX21-033424.128
SN69	003-P52	Silvery electrolytic capacitor body	SZX21-033424.129
SN70	003-P53	Black "IC" body (Submit by 2021-12-6)	SZX21-033424.130
SN71	003-P54	Blue capacitor body with multi-color ring	SZX21-033424.131
SN72	003-P58	Green "PCB"	SZX21-033424.132
SN73	003-P83	Gray inductance body	SZX21-033424.133
SN74	003-P84	Black inductance body (Submit by 2021-12-6)	SZX21-033424.134
SN75	003-P85	Black magnet core	SZX21-033424.135
SN76	003-P93	Green "PCB"	SZX21-033424.136
SN77	004-P2	Silvery metal screw	SZX21-033424.137
SN78	004-P3	Silvery metal washer	SZX21-033424.138

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SN79	004-P4	Silvery metal ring	SZX21-033424.139
SN80	004-P8	Silvery metal part	SZX21-033424.141
SN81	004-P9	Silvery metal screw	SZX21-033424.142
SN82	004-P14	Silvery metal plate	SZX21-033424.143
SN83	004-P16	Silvery metal plate	SZX21-033424.144
SN84	004-P17	Silvery metal washer	SZX21-033424.145
SN85	004-P18	Silvery metal ring	SZX21-033424.146
SN86	004-P19	Silvery metal plate	SZX21-033424.147
SN87	004-P20	Silvery metal part	SZX21-033424.148
SN88	004-P24	Silvery metal pin	SZX21-033424.149
SN89	004-P32	Silvery metal pin	SZX21-033424.150
SN90	004-P33	Silvery metal core wire	SZX21-033424.151
SN91	004-P34	Silvery metal screw	SZX21-033424.152
SN92	004-P36	Silvery metal shell	SZX21-033424.153
SN93	004-P38	Silvery metal shell	SZX21-033424.154
SN94	004-P39	Silvery metal pin	SZX21-033424.155
SN95	004-P46	Silvery metal cover	SZX21-033424.156
SN96	005-P51	Silvery metal part	SZX21-033424.157
SN97	005-P62	Silvery metal screw	SZX21-033424.158
SN98	005-P65	Silvery metal screw	SZX21-033424.159
SN99	005-P66	Silvery metal shell with white surface	SZX21-033424.160
SN100	005-P71	Silvery metal screw	SZX21-033424.161
SN101	005-P74	Golden metal part	SZX21-033424.162
SN102	005-P75	Silvery metal nut	SZX21-033424.163
SN103	005-P76	Silvery metal ring	SZX21-033424.164
SN104	005-P78	Silvery metal part	SZX21-033424.165
SN105	005-P80	Golden metal part	SZX21-033424.166
SN106	167	Golden metal part (Improve sample 004-P7 submit by 2021-12-15)	SZX21-033424.167

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SGS Sample ID	Photo No.	Material Description
001	P1	Translucent plastic part
001	P5	White plastic part with black surface
001	P21	White plastic part
001	P22	Black plastic shell
001	P26	Coppery enameled wire
001	P31	White plastic part
001	P35	Gray plastic part
001	P40	Gray plastic part
001	P41	Gray plastic part
001	P63	Black plastic part
001	P68	Black plastic part
001	P72	Black plastic part
001	P73	Cyan plastic part
001	P79	White plastic part
001	P81	Gray plastic part
001	P86	Coppery enameled wire
002	P6	Translucent rubber ring
002	P10	Gray wire
002	P11	Black wire
002	P12	White wire
002	P29	Black wire
002	P30	Red plastic (wire insulation)
002	P59	Black heat shrinkable tube
002	P60	Red wire

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SGS Sample ID	Photo No.	Material Description
002	P61	Black wire
002	P64	Black rubber part
002	P67	Black rubber ring
002	P69	Black rubber part
002	P70	Black rubber ring
002	P77	Red rubber ring
002	P82	Red rubber ring
002	P87	Brown transparent plastic adhesive tape
002	P94	Red rubber ring
003	P13	Pink material with silvery surface
003	P15	Green "PCB"
003	P25	Green magnet core
003	P28	Green "PCB"
003	P37	Yellow capacitor body
003	P42	Black electrolytic capacitor body
003	P45	White electron component body
003	P49	Blue "PCB"
003	P50	Black "PCB"
003	P52	Silvery electrolytic capacitor body
003	P53	Black "IC" body
003	P54	Blue capacitor body with multi-color ring
003	P58	Green "PCB"
003	P83	Gray inductance body
003	P84	Black inductance body

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SGS Sample ID	Photo No.	Material Description
003	P85	Black magnet core
003	P93	Green "PCB"
004	P2	Silvery metal screw
004	P3	Silvery metal washer
004	P4	Silvery metal ring
004	P7	Golden metal part
004	P8	Silvery metal part
004	P9	Silvery metal screw
004	P14	Silvery metal plate
004	P16	Silvery metal plate
004	P17	Silvery metal washer
004	P18	Silvery metal ring
004	P19	Silvery metal plate
004	P20	Silvery metal part
004	P24	Silvery metal pin
004	P32	Silvery metal pin
004	P33	Silvery metal core wire
004	P34	Silvery metal screw
004	P36	Silvery metal shell
004	P38	Silvery metal shell
004	P39	Silvery metal pin
004	P46	Silvery metal cover
005	P51	Silvery metal part
005	P62	Silvery metal screw



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SGS Sample ID	Photo No.	Material Description
005	P65	Silvery metal screw
005	P66	Silvery metal shell with white surface
005	P71	Silvery metal screw
005	P74	Golden metal part
005	P75	Silvery metal nut
005	P76	Silvery metal ring
005	P78	Silvery metal part
005	P80	Golden metal part
006	P95	Silvery metal cover
006	P96	Silvery metal part
007	P99	Black "PCB"
008	P100	Silvery metal cover
009	P104	Black "PCB"
010	P23	Black "IC" body
010	P27	Black "IC" body
010	P43	Black "IC" body
010	P44	Black "IC" body
010	P47	Black "IC" body
010	P48	Black "IC" body
010	P55	Black "IC" body
010	P56	Black "IC" body
010	P57	Black "IC" body
010	P88	Black "IC" body
010	P89	Black "IC" body

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SGS Sample ID	Photo No.	Material Description
010	P90	Black "IC" body
010	P91	Black "IC" body
010	P92	Black "IC" body
011	P97	Black "IC" body
011	P98	Black "IC" body
012	P101	Black "IC" body
012	P102	Black "IC" body
012	P103	Black "IC" body
167	P105	Golden metal part

Test Method :

SGS In-House method- SGS-CCL-SOP-019-21, SGS-CCL-SOP-019-22, SGS-CCL-SOP-057-01, 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 (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	see below confirmation test result	0.100
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	see below confirmation test result	0.100
VIII	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.015	0.010
VIII	Dioxobis(stearato)trilead*	12578-12-0	0.023	0.010
VIII	Fatty acids, C16-18, lead salts*	91031-62-8	0.044	0.010
VIII	Lead cyanamide*	20837-86-9	0.014	0.010
VIII	Lead dinitrate*	10099-74-8	0.019	0.010
VIII	Lead monoxide*	1317-36-8	0.013	0.010
VIII	Lead oxide sulfate*	12036-76-9	0.015	0.010
VIII	Lead tetroxide (orange lead)*	1314-41-6	0.013	0.010
VIII	Lead titanium trioxide*	12060-00-3	0.017	0.010
VIII	Lead titanium zirconium oxide*	12626-81-2	0.020	0.010
VIII	Pentalead tetraoxide sulphate*	12065-90-6	0.014	0.010
VIII	Pyrochlore, antimony lead yellow*	8012-00-8	0.022	0.010
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.015	0.010
VIII	Tetralead trioxide sulphate*	12202-17-4	0.014	0.010
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.015	0.010
VIII	Trilead dioxide phosphonate*	12141-20-7	0.014	0.010
X	Lead di(acetate)*	301-04-2	0.018	0.010
XIX	Lead	7439-92-1	0.012	0.010
-	Other tested SVHC in candidate list	-	ND	-

Test Result: (Potential SVHC)

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

Confirmation Test Result:



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Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P1 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P5 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P21 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P22 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P26 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P31 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

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Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P35 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P40 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P41 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P63 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.132	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.281	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P68 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.122	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.260	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P72 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050

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Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P72 Concentration (%)	RL (%)
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P73 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P79 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P81 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P86 Concentration (%)	RL (%)
I	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	ND	0.050
VI	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	0.050

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

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	see below confirmation test result	0.100
I	Dibutyl phthalate (DBP)	84-74-2	see below confirmation test result	0.100

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

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	see below confirmation test result	0.100
-	Other tested SVHC in candidate list	-	ND	-

Test Result: (Potential SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
-	All tested Potential SVHC	-	ND	-

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P6 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P10 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P11 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P12 Concentration (%)	RL (%)

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Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P12 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P29 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P30 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	0.124	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P59 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P60 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

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Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P61 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P64 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P67 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P69 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P70 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

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Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P77 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P82 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P87 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	002-P94 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND	0.050

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

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	see below confirmation test result	0.100
III	Boric acid*	-	NA^	0.010

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

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

Test Result: (Potential SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested Potential SVHC	-	ND	-

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P13 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P15 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	0.068	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P25 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P28 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	0.053	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P37 Concentration (%)	RL (%)

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Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P37 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P42 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P45 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P49 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P50 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P52 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P53 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P54 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:



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Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P58 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P83 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P84 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P85 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P93 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

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

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	see below confirmation test result	0.010
XIX	Lead	7439-92-1	see below confirmation test result	0.010
-	Other tested SVHC in candidate list	-	ND	-

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P2 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	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.	004-P3 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P4 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P8 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P9 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P14 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P16 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P17 Concentration (%)	RL (%)

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Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P17 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P18 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P19 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P20 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P24 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P32 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	0.016	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P33 Concentration (%)	RL (%)

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Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P33 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P34 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P36 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P38 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	0.007	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P39 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P46 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead	7439-92-1	ND	0.005

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

Batch	Substance Name	CAS No.	005 Concentration (%)	RL (%)

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

Batch	Substance Name	CAS No.	005 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.068	0.010
IX	Cadmium oxide*	1306-19-0	0.015	0.010
IX	Cadmium	7440-43-9	0.013	0.010
XVIII	Cadmium nitrate*	10325-94-7	0.028	0.010
XVIII	Cadmium carbonate*	513-78-0	0.021	0.010
XVIII	Cadmium hydroxide*	21041-95-2	0.018	0.010
XIX	Lead	7439-92-1	see below confirmation test result	0.010
-	Other tested SVHC in candidate list	-	ND	-

Confirmation Test Result:

Batch	Substance Name	CAS No.	005-P51 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	2.527	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	005-P62 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	005-P65 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	2.946	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	005-P66 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.039	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	005-P71 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:



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Confirmation Test Result:

Batch	Substance Name	CAS No.	005-P74 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	2.721	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	005-P75 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	2.757	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	005-P76 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.018	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	005-P78 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	2.720	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	005-P80 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	2.903	0.005

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

Batch	Substance Name	CAS No.	006 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	007 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Potential SVHC)

Batch	Substance Name	CAS No.	007 Concentration (%)	RL (%)
-	All tested Potential SVHC	-	ND	-

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



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

Batch	Substance Name	CAS No.	008 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	009 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Potential SVHC)

Batch	Substance Name	CAS No.	009 Concentration (%)	RL (%)
-	All tested Potential SVHC	-	ND	-

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

Batch	Substance Name	CAS No.	010 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	see below confirmation test result	0.010

Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P23 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	2.247	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P27 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	1.984	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P43 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.488	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P44 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	1.699	0.005

Confirmation Test Result:

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Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P47 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P48 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P55 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P56 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P57 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P88 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.978	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P89 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P90 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	1.333	0.005

Confirmation Test Result:



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Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P91 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.011	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	010-P92 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	1.466	0.005

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

Batch	Substance Name	CAS No.	011 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.012	0.010

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

Batch	Substance Name	CAS No.	012 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	167 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	2.763	0.010
-	Other tested SVHC in candidate list	-	ND	-



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Test Report (SVHC)

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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), 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.
9. / = Potential SVHC.
10. NA^ = Upon further test verification on the specific detected element(s) or ingredient of SVHC and also information provided from client, the possibility that the element(s) or ingredient content originate from SVHC is very unlikely, even though their presence cannot be excluded entirely. It may be assumed that the detected element(s) or ingredient have a non-SVHC source.
11. This report updates Client Ref.Info..



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Test Report (SVHC)

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
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	0.100
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	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -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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Appendix

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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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Test Report (SVHC)

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)

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	0.050
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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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	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.100
VII	84	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	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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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	Henicosfluoroundecanoic acid	2058-94-8	0.100
VIII	111	Heptacosfluorotetradecanoic 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)

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	0.050
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	Pentacosfluorotridecanoic 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	Tricosfluorododecanoic 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)

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	Dihexyl phthalate	84-75-3	0.100
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulfonate) (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	Trixyl phosphate	25155-23-1	0.100
XI	152	1,2-Benzenedicarboxylic acid, dihexyl 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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Test Report (SVHC)

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-diethyl-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-diethyl-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

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Test Report (SVHC)

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-Dodecachlorpentacyclo[2.2.1.6,9.0.2,13.0.5,10]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) (TMA)	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	0.050

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Test Report (SVHC)

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	188	Ethylenediamine (EDA)	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)

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	Diocetyltin 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)propane1,3-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)bisphephenol (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
/	220	Resorcinol	108-46-3	0.100

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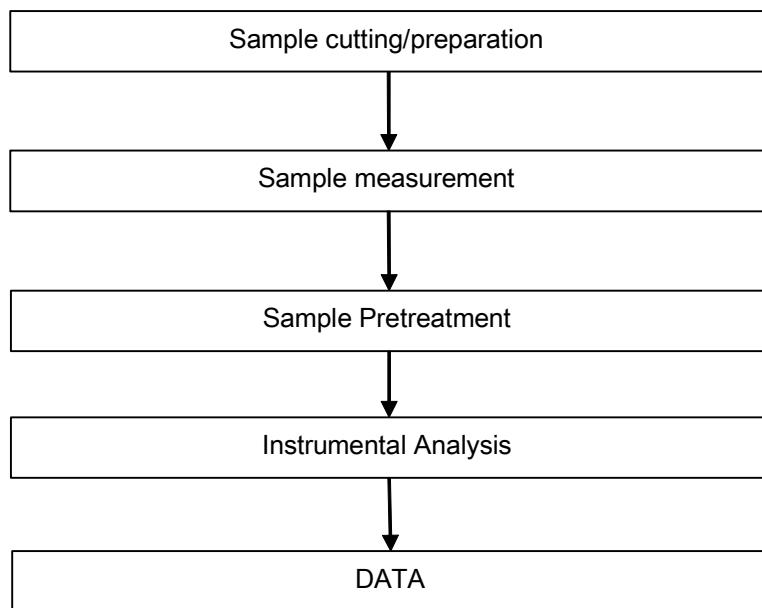
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ATTACHMENTS

SVHC Testing Flow Chart



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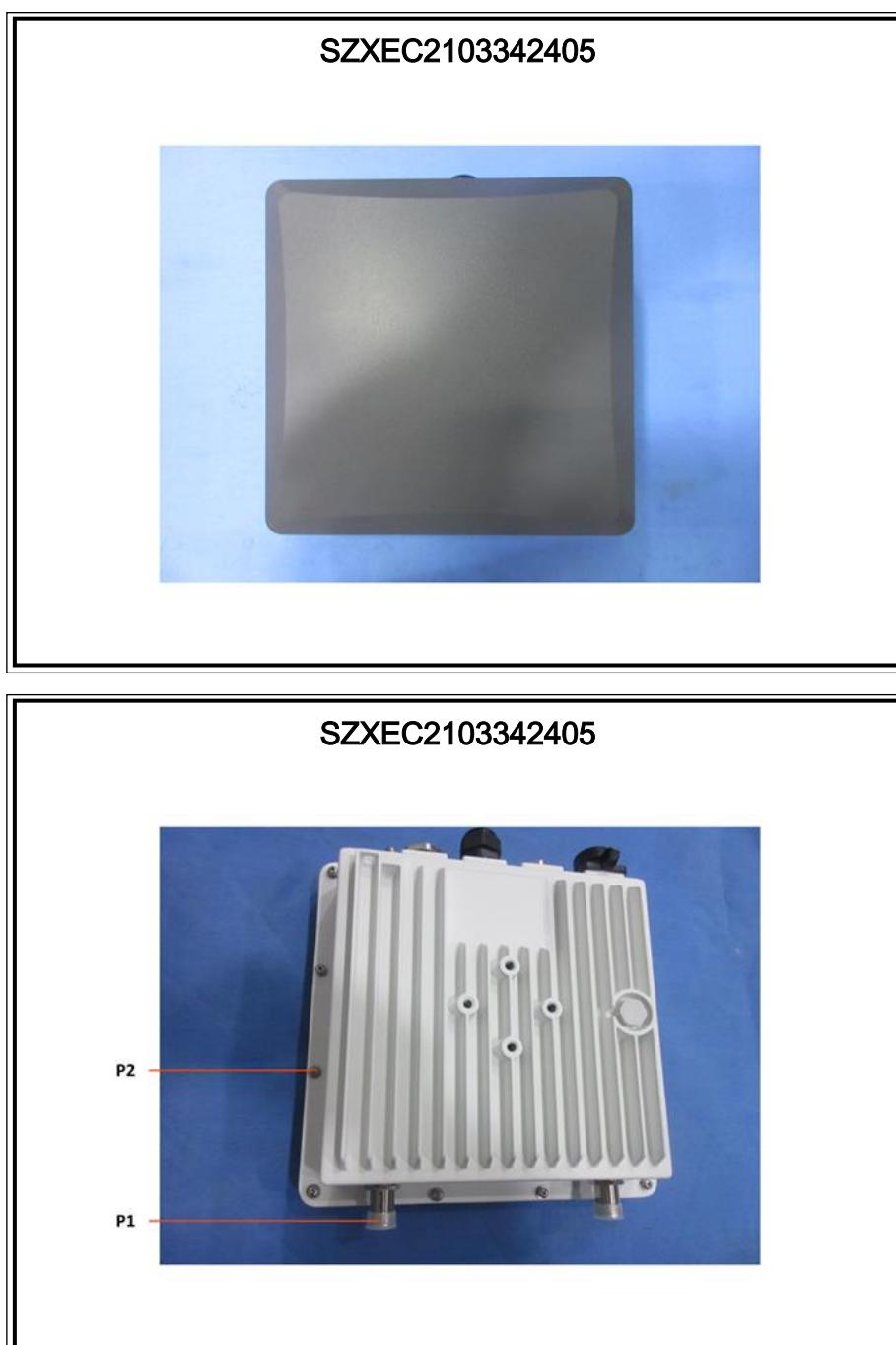
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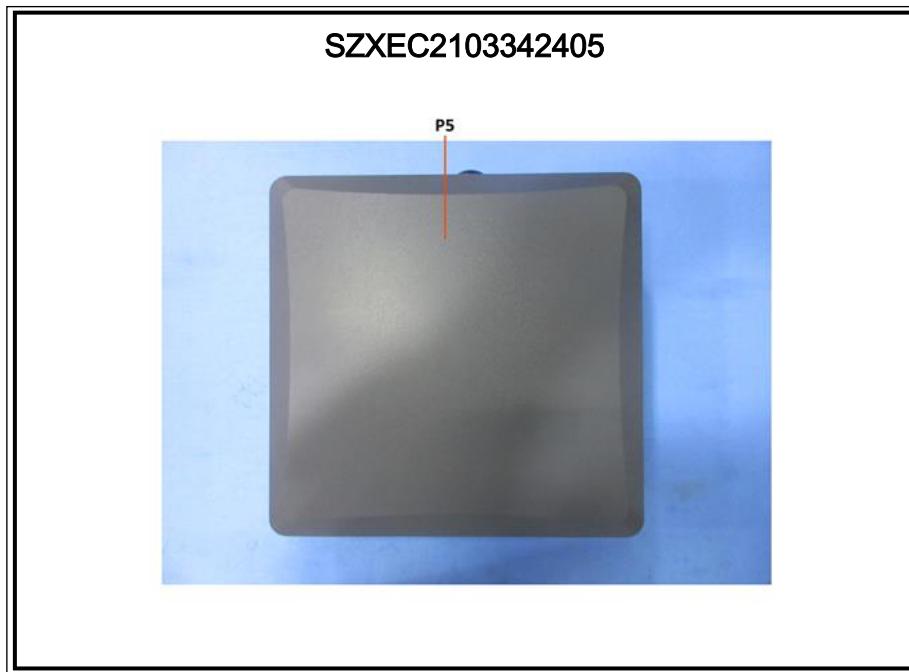
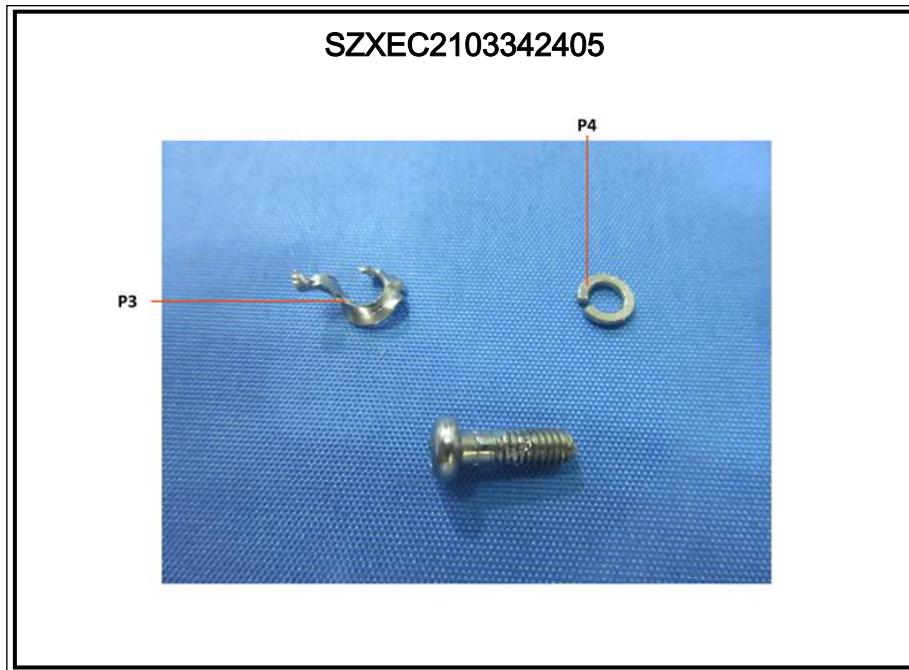
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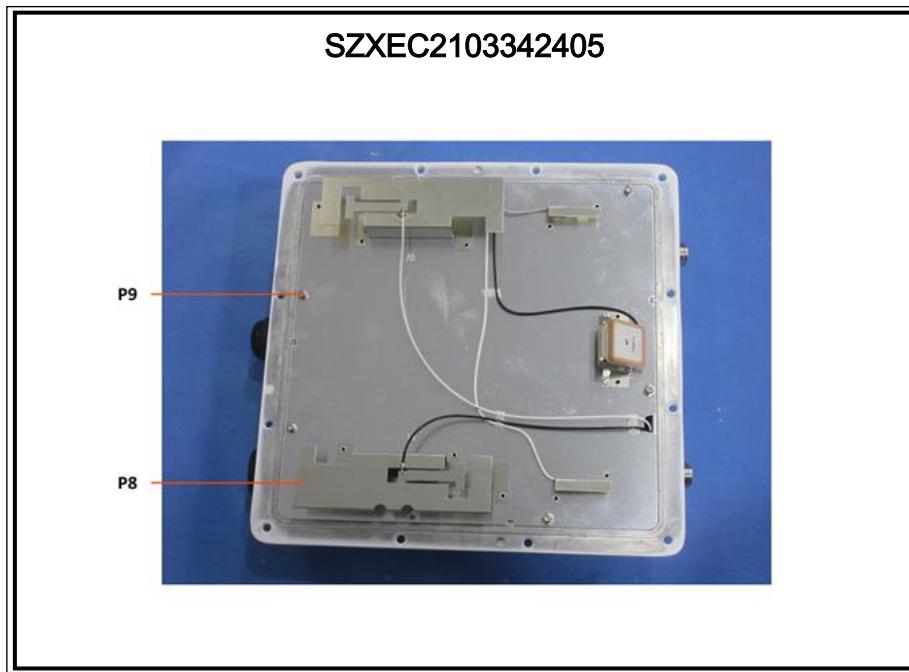
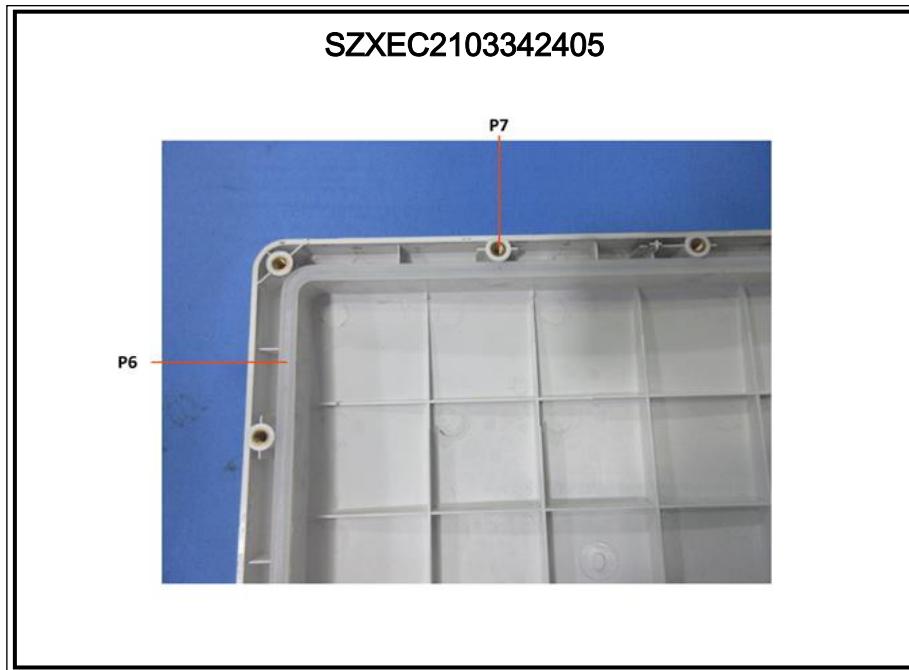
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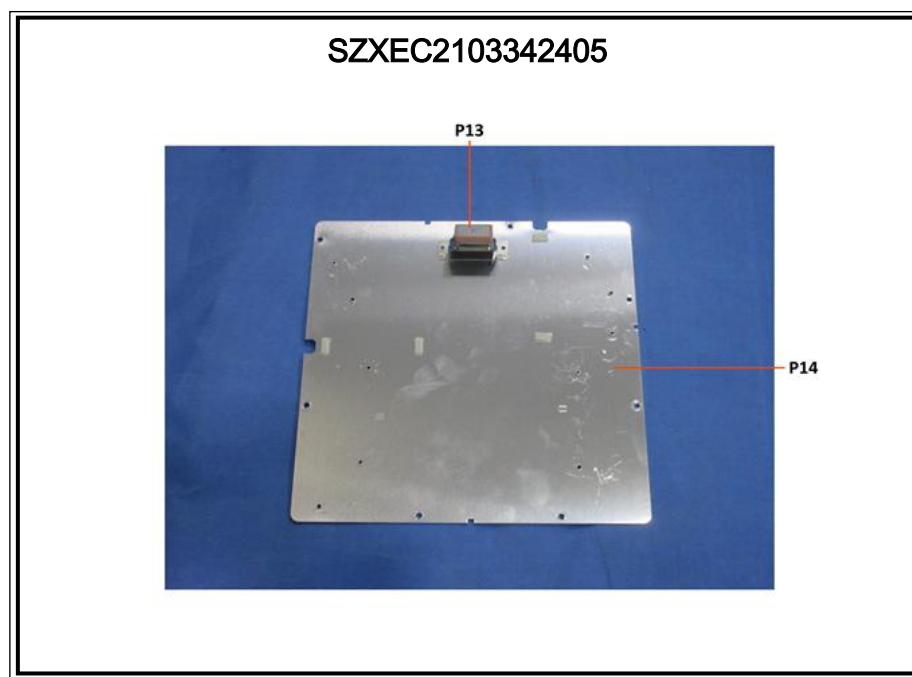
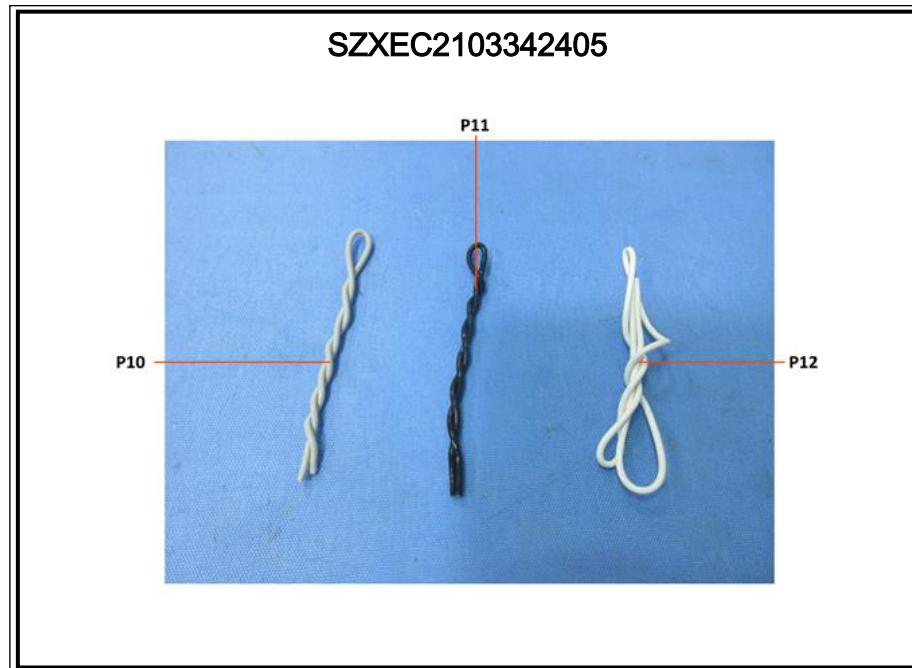
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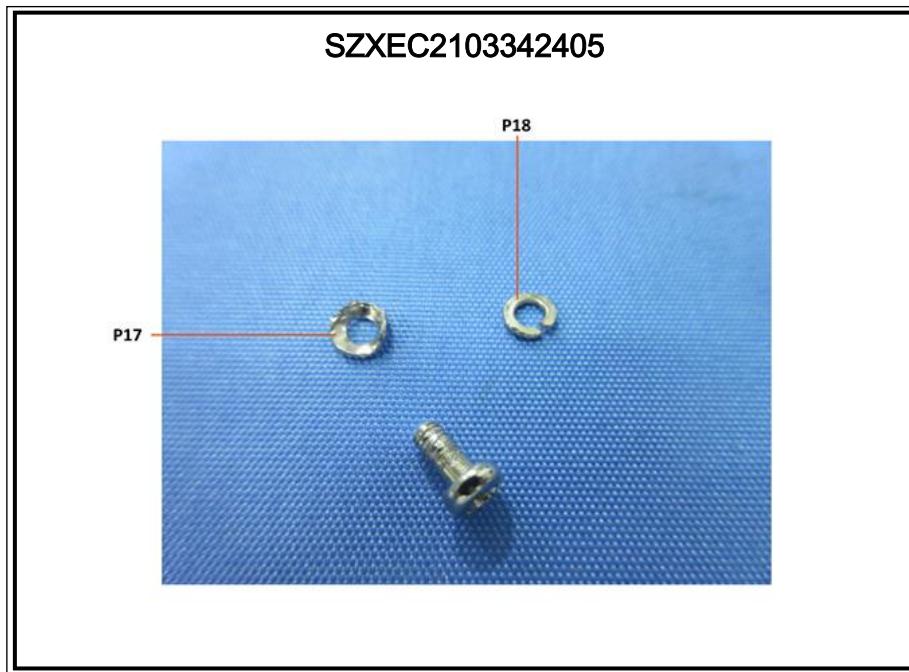
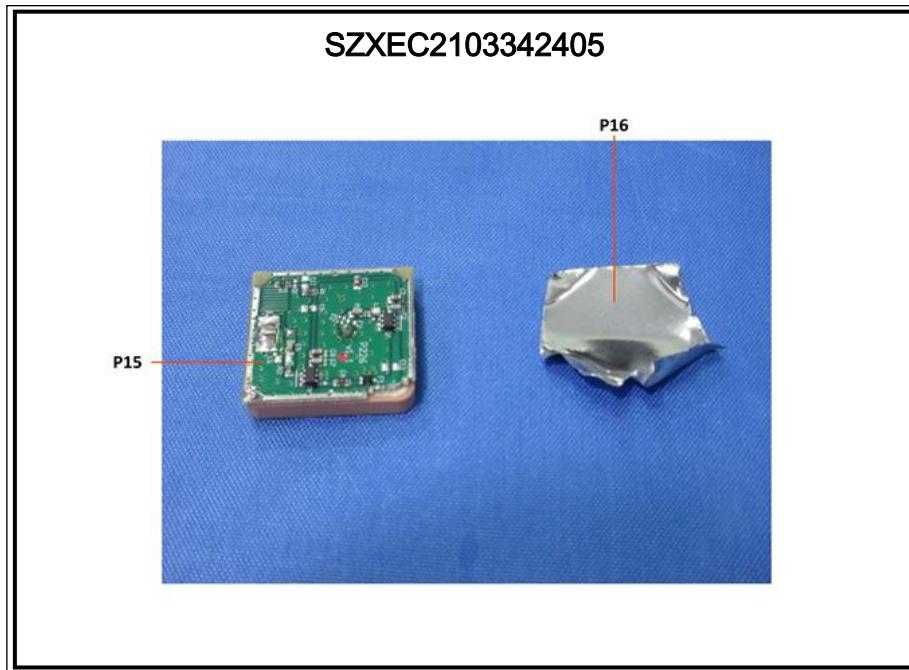
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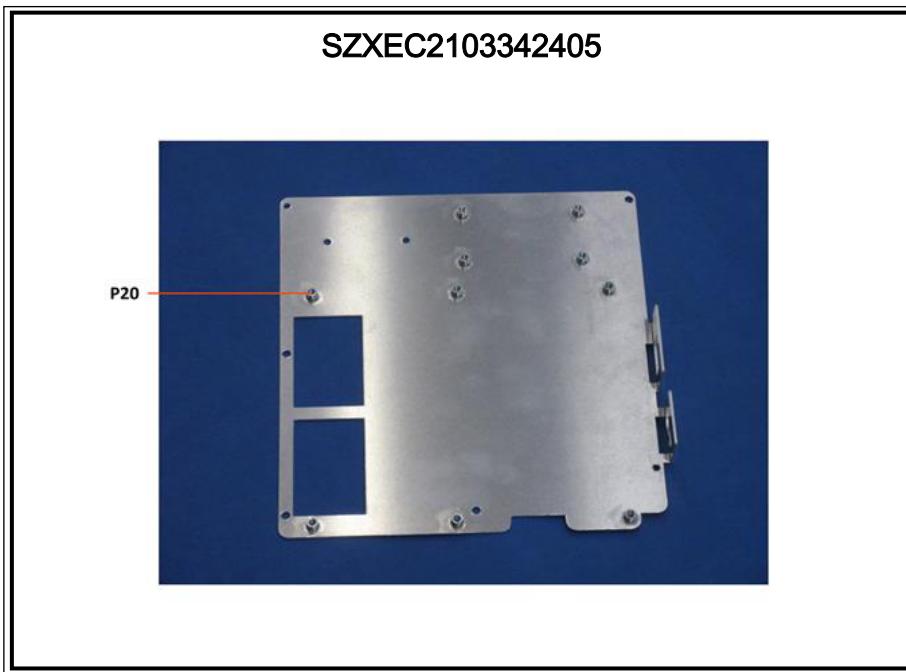
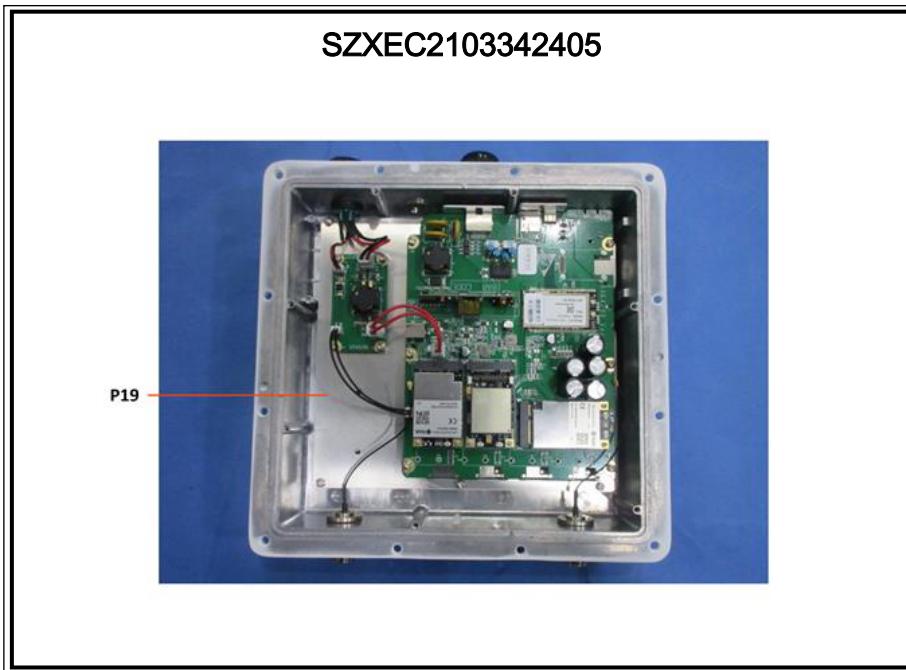
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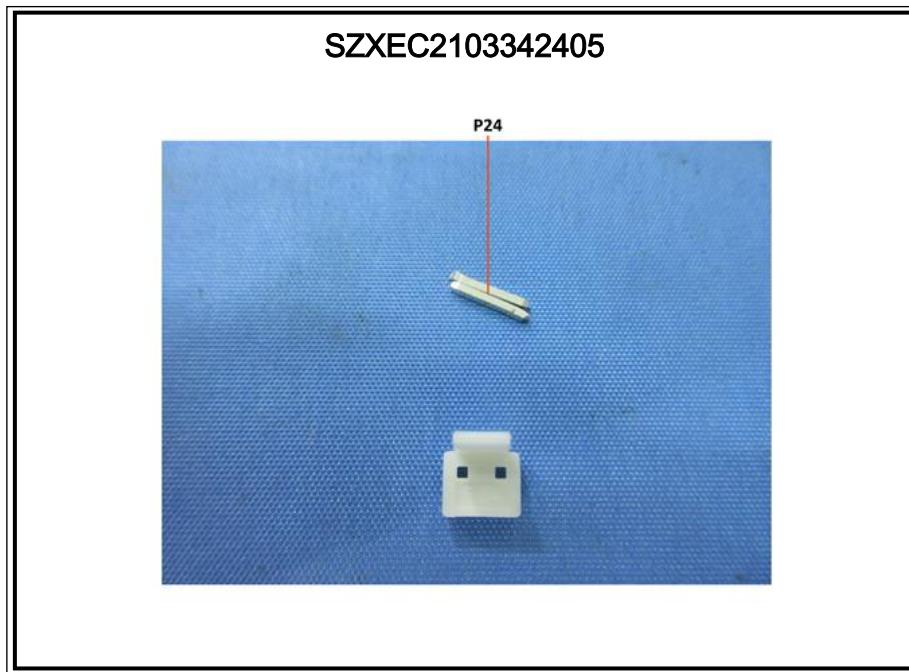
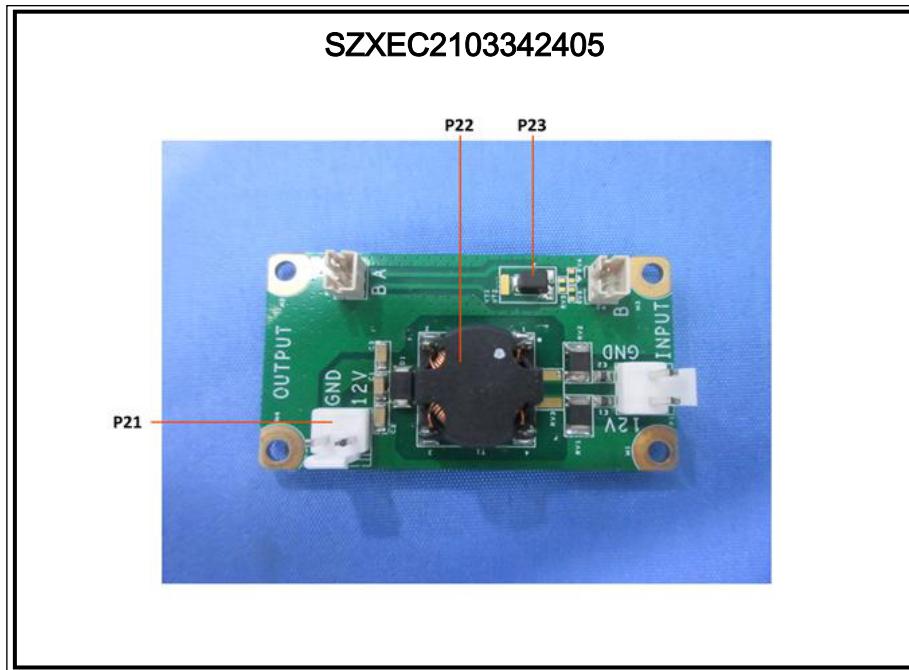
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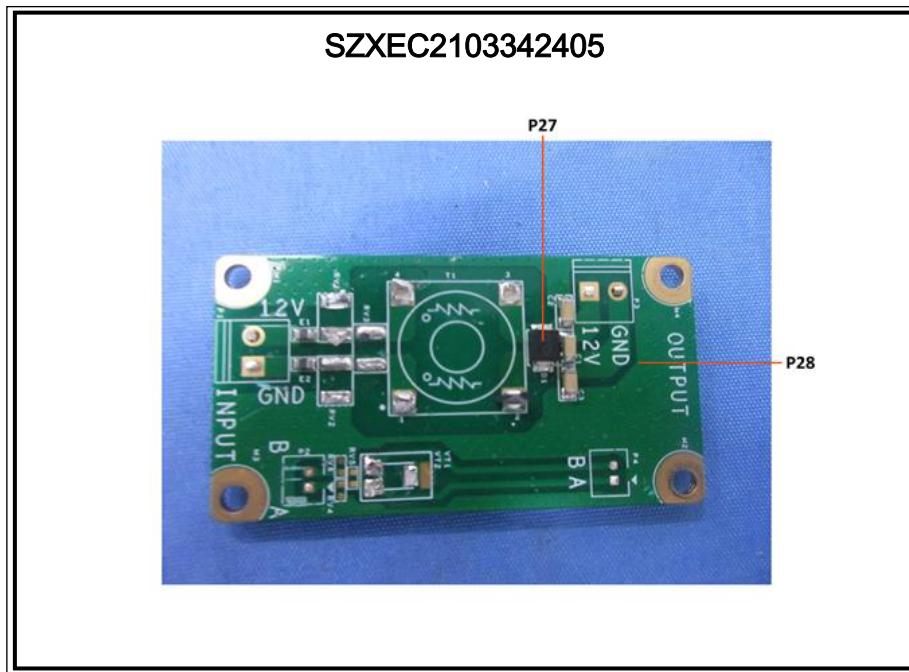
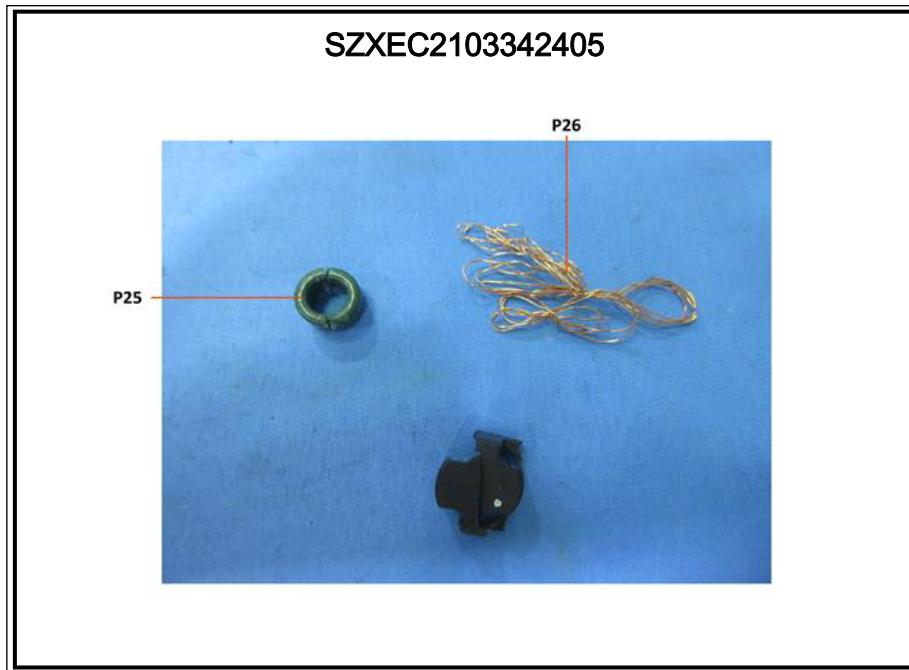
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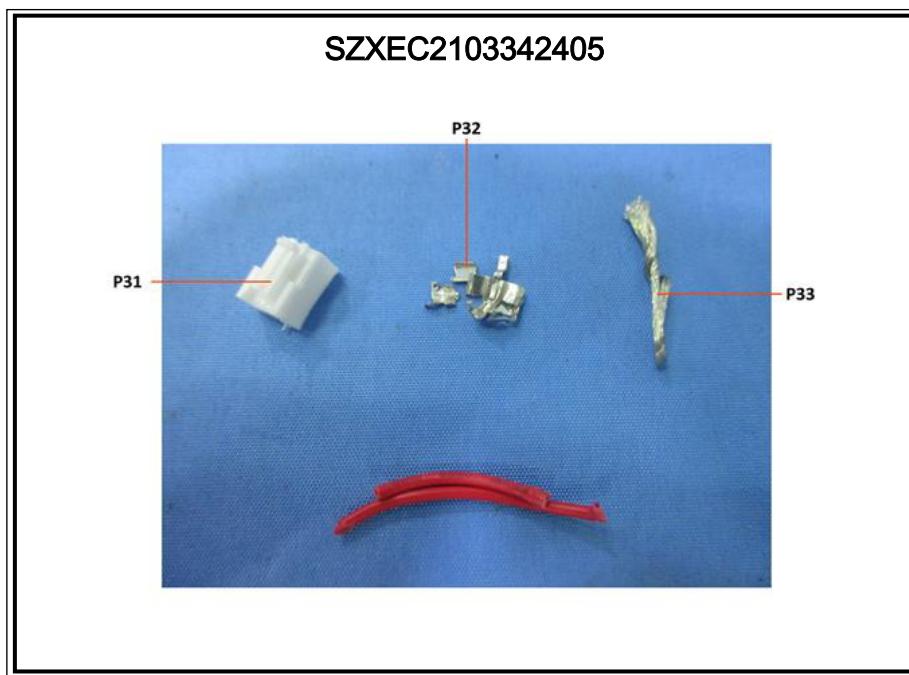
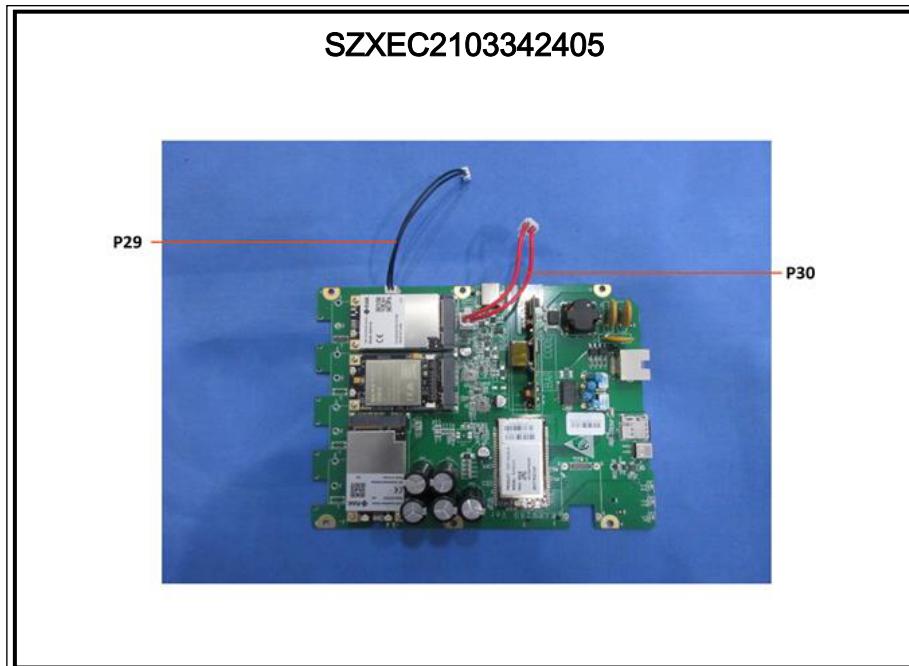
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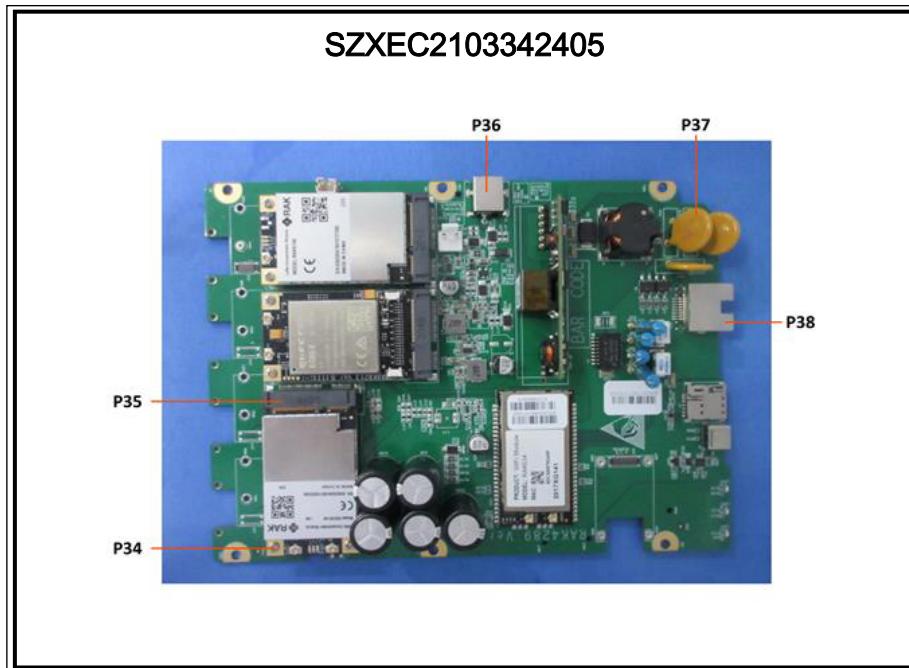
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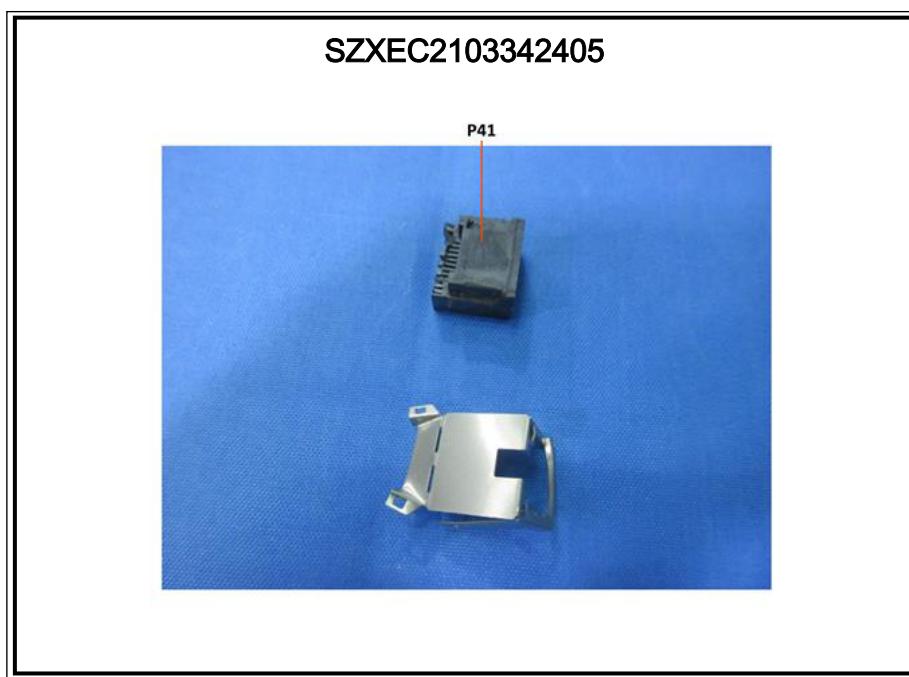
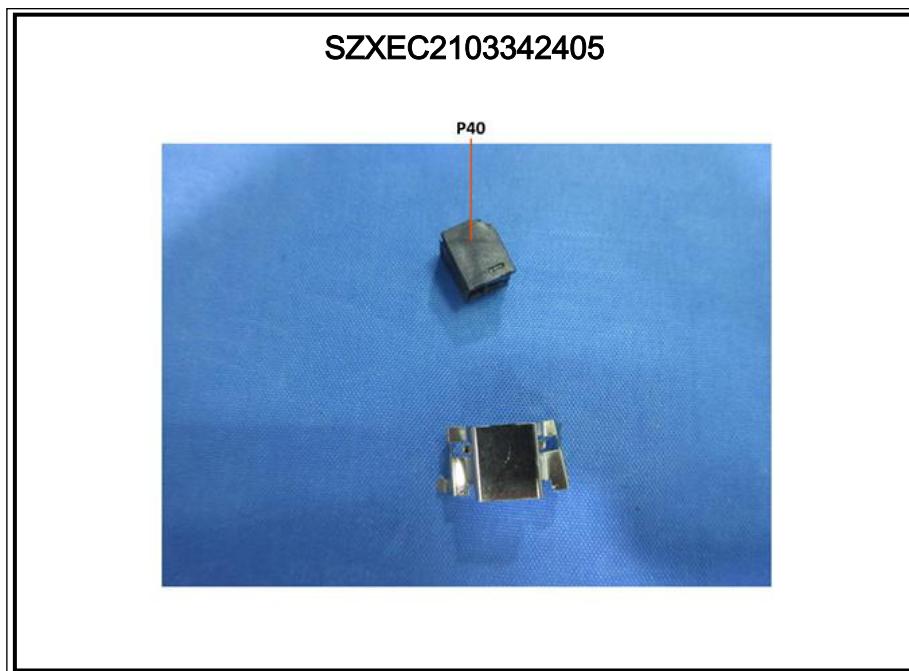
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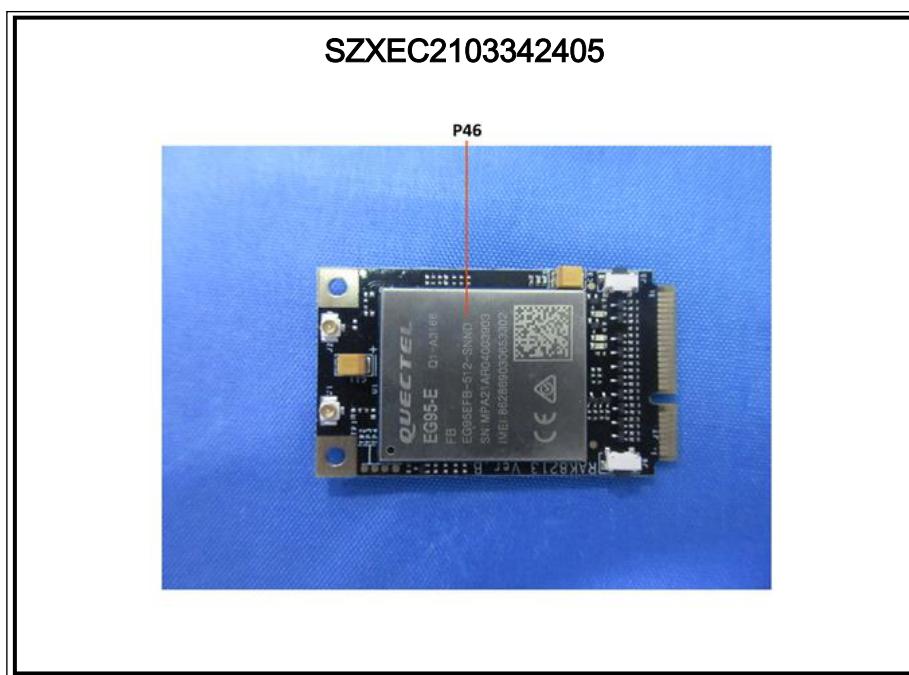
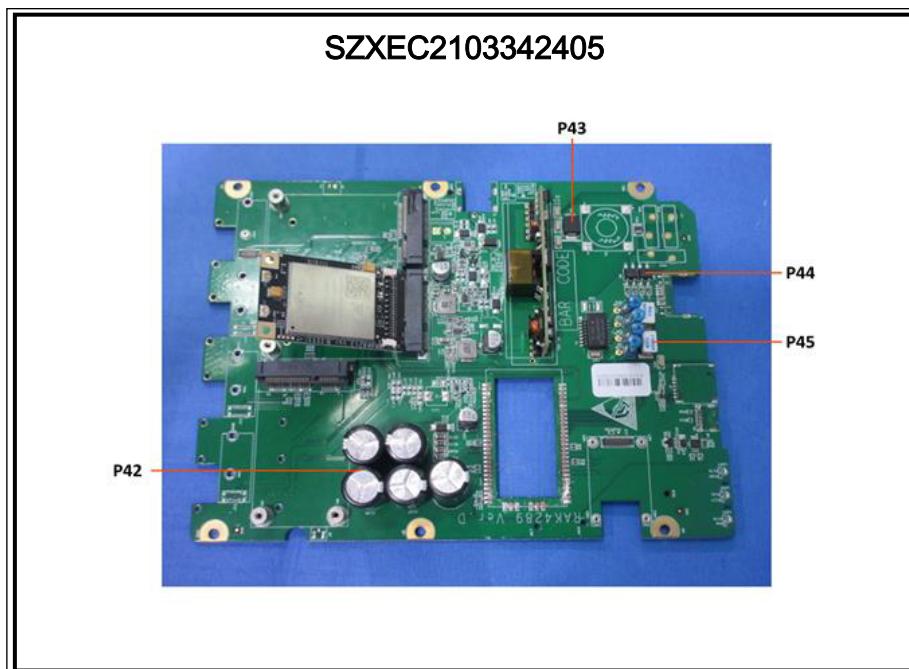
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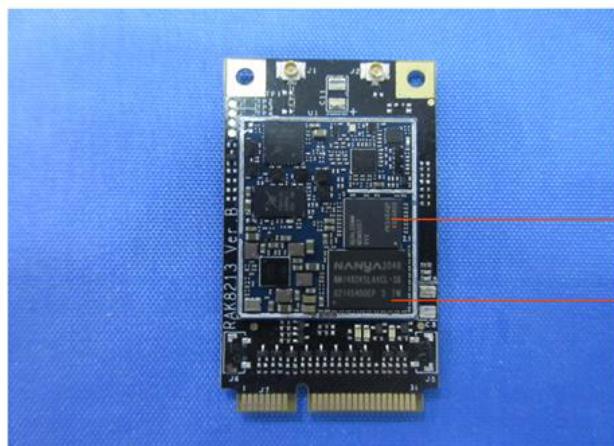
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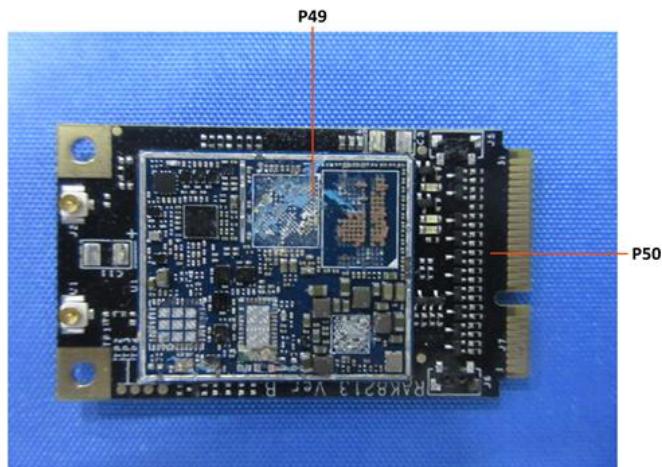
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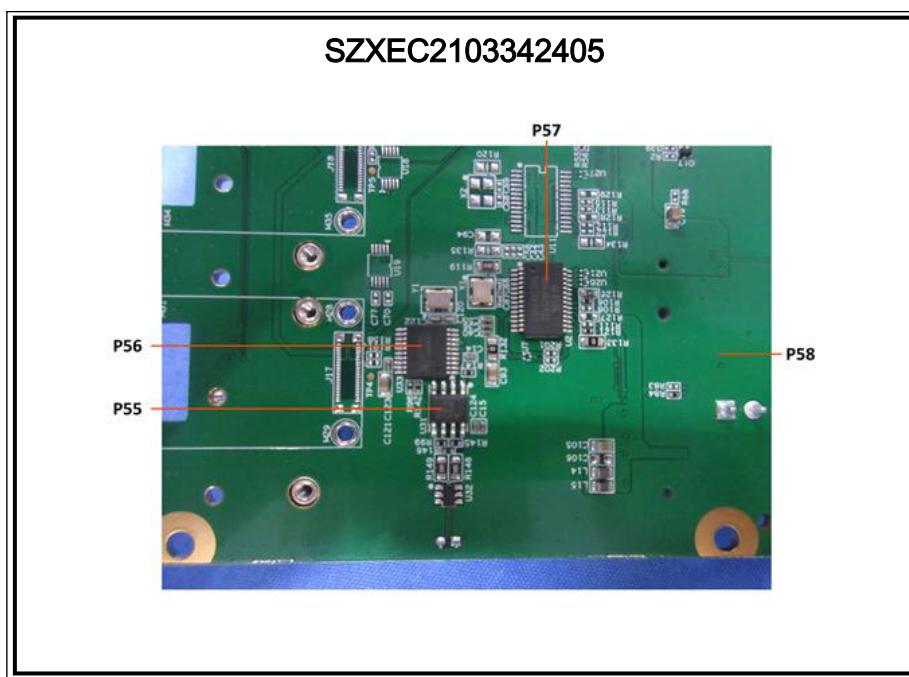
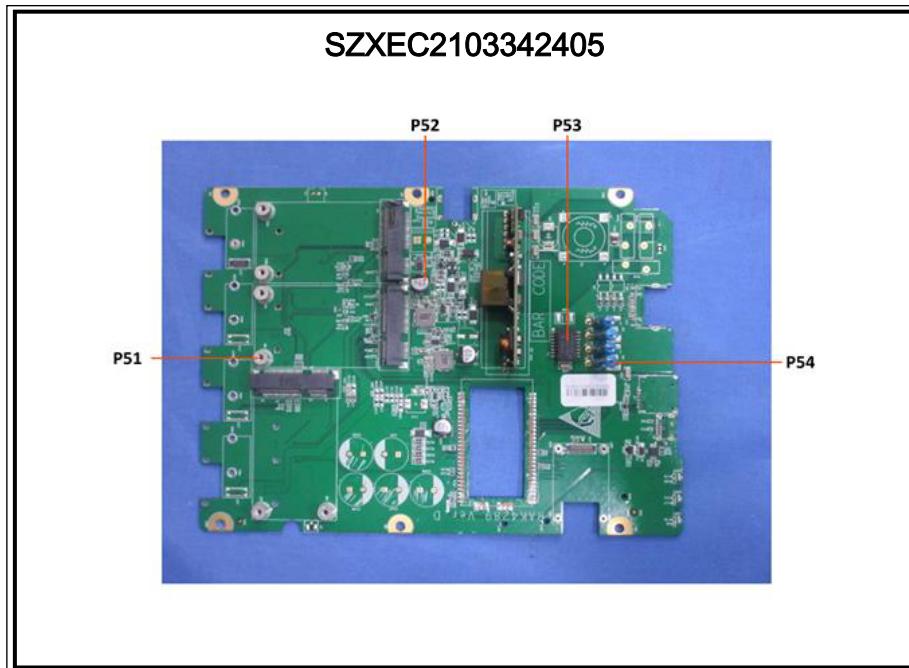
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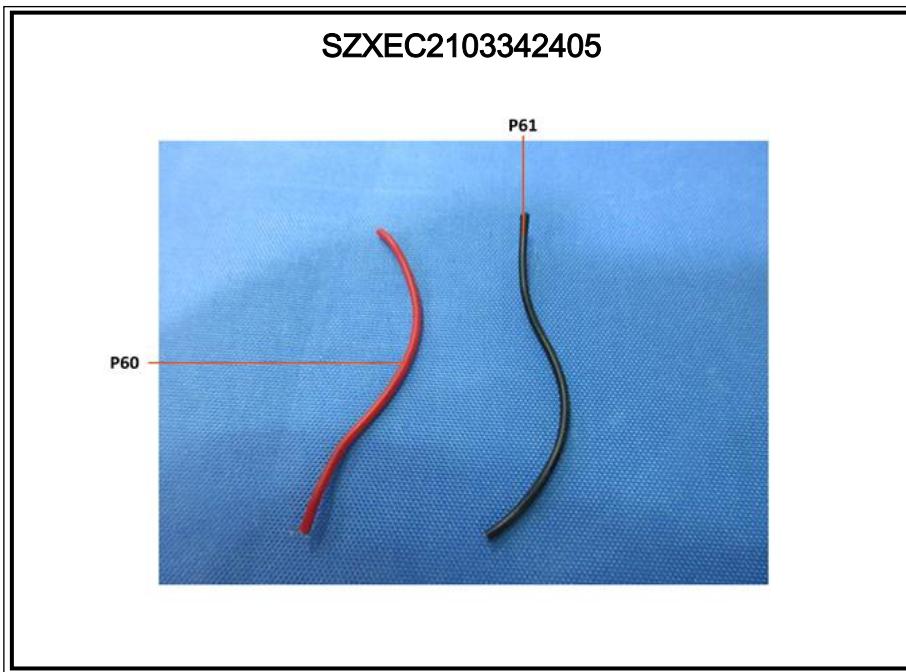
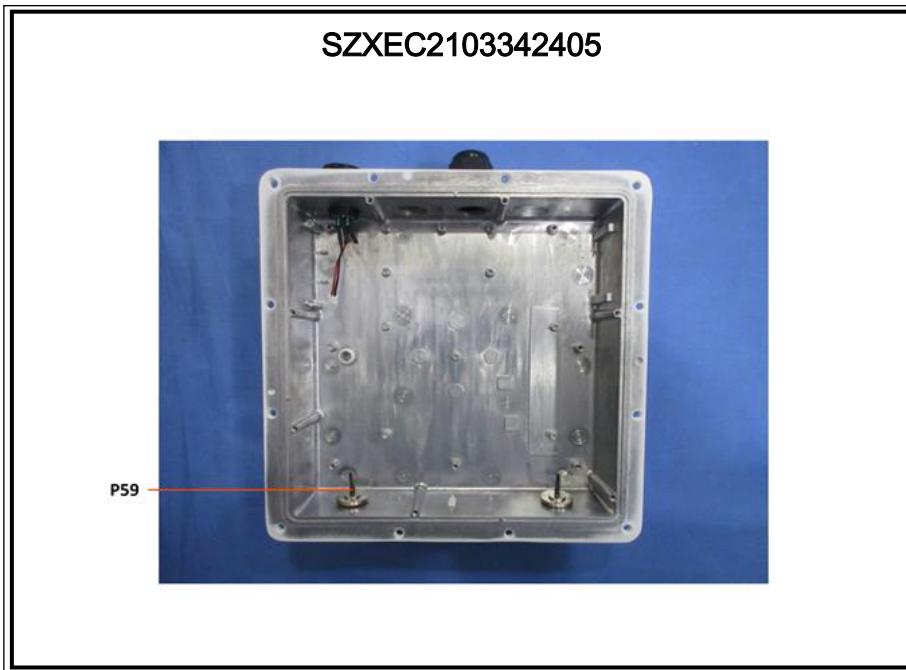
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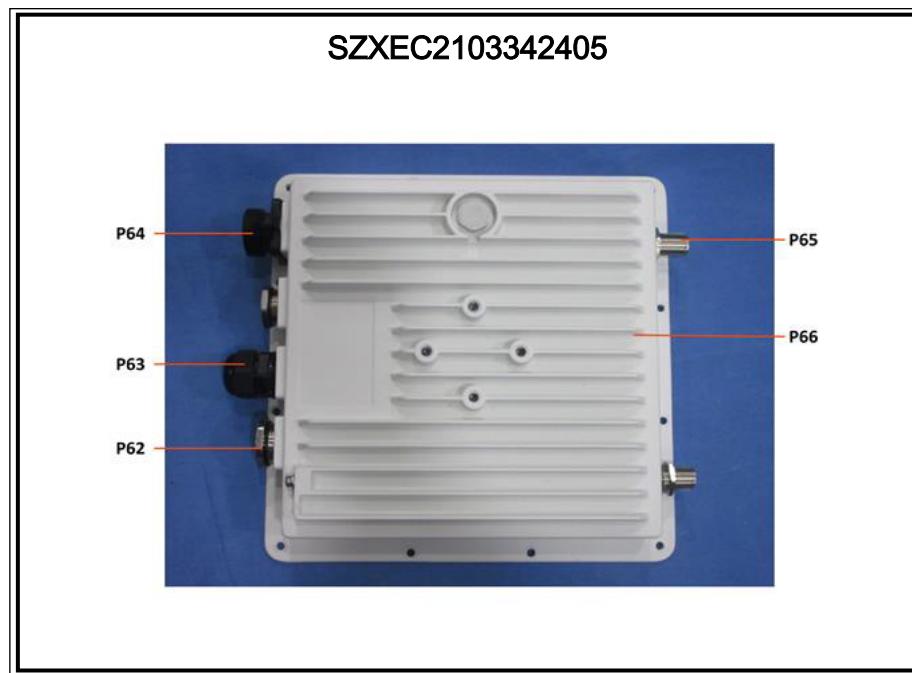
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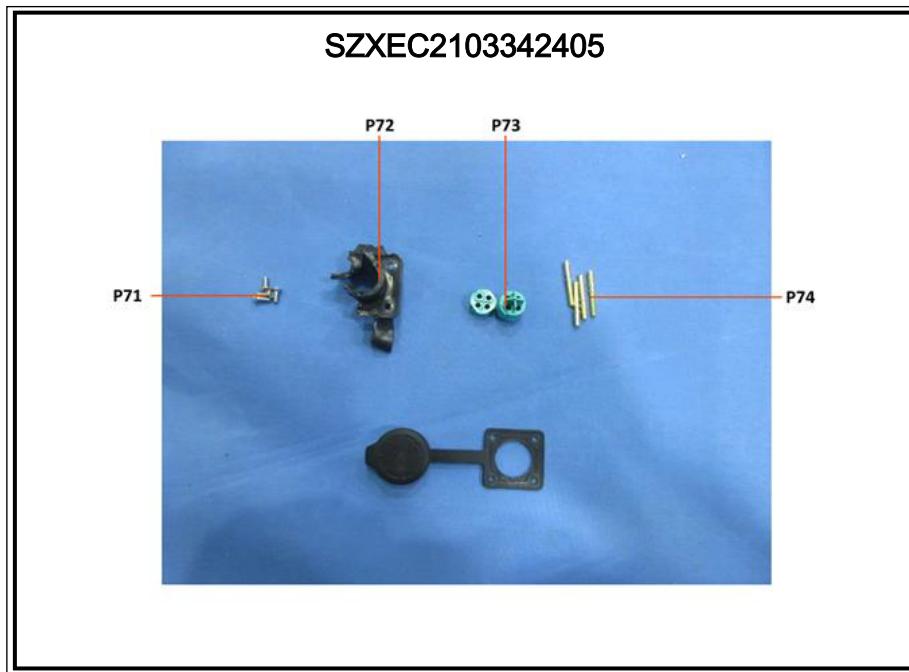
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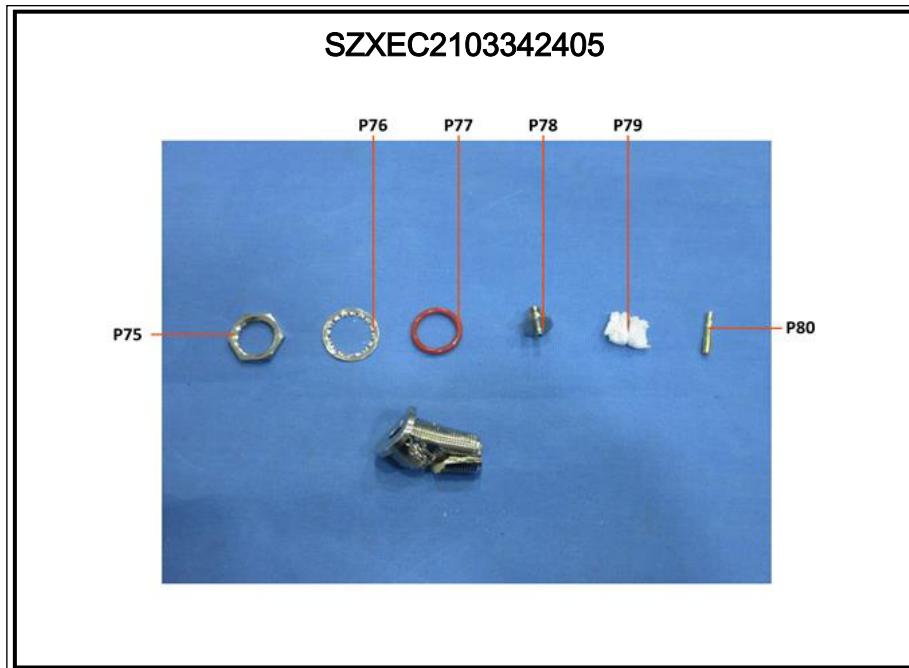
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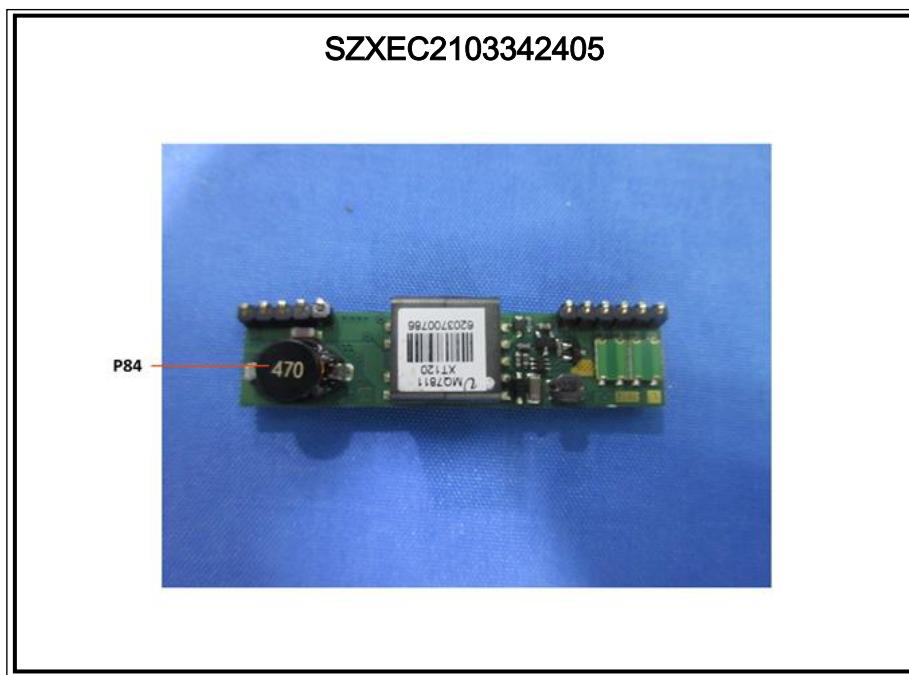
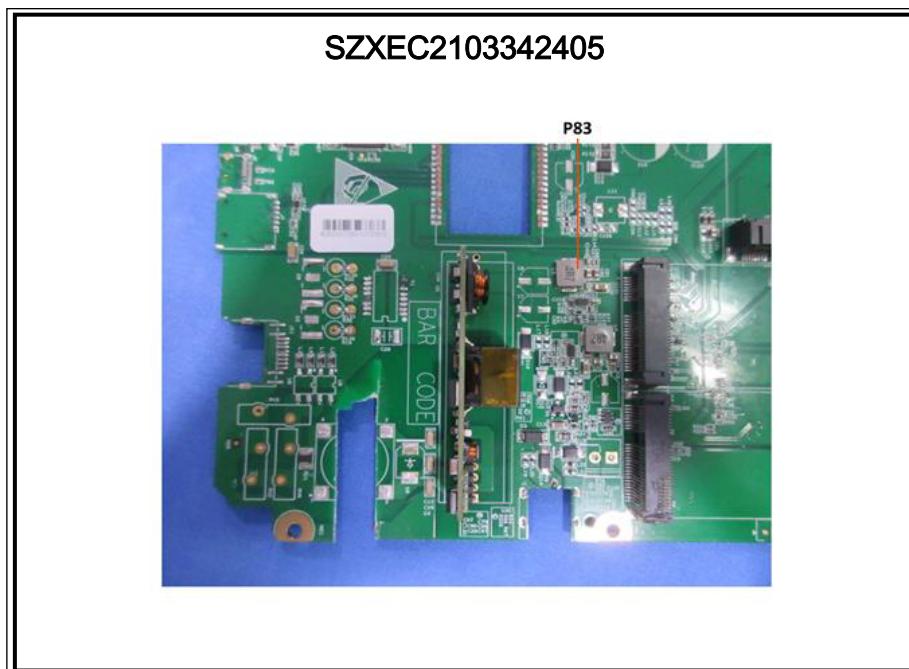
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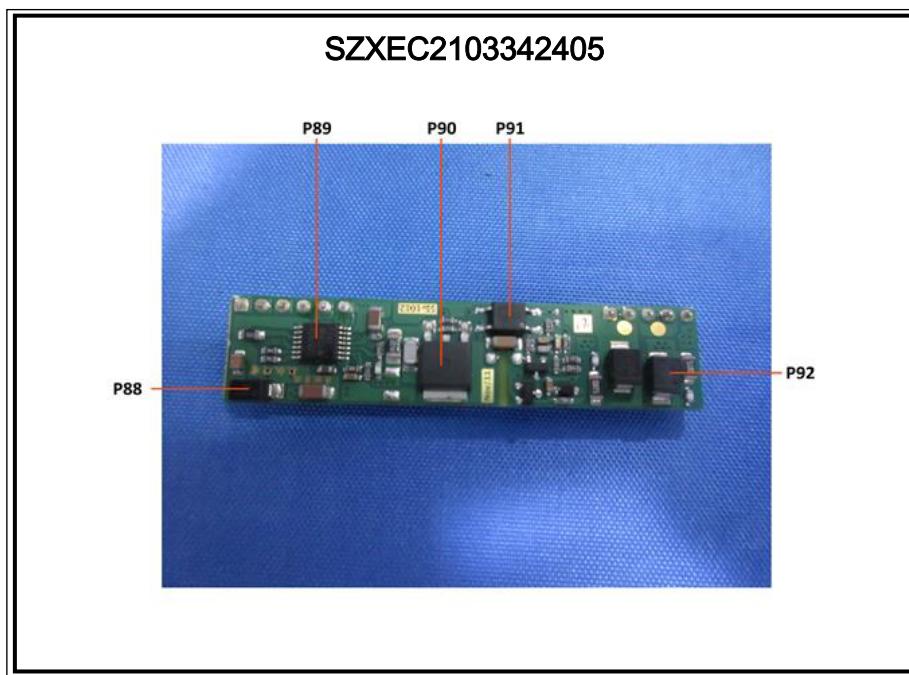
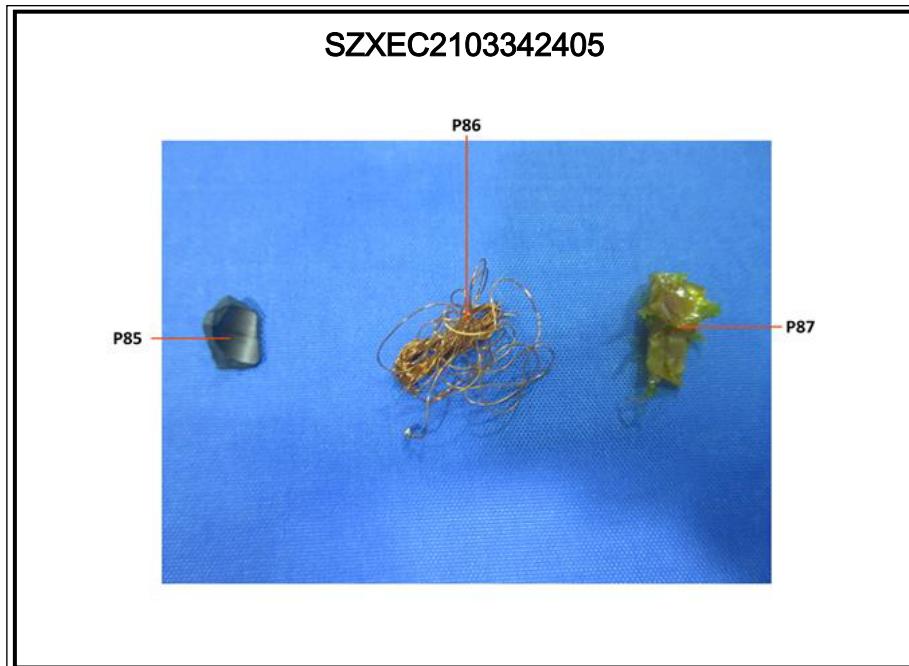
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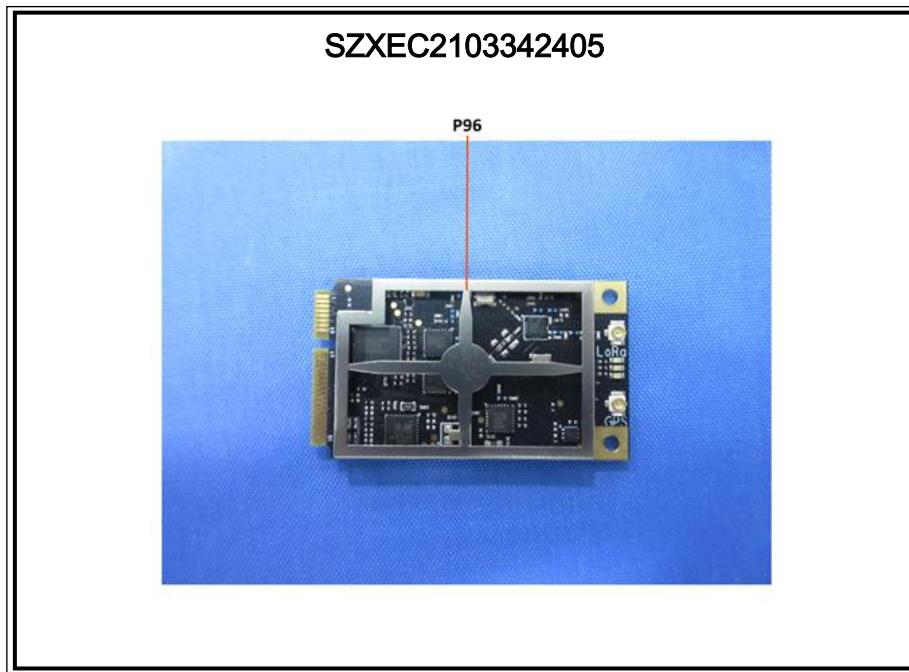
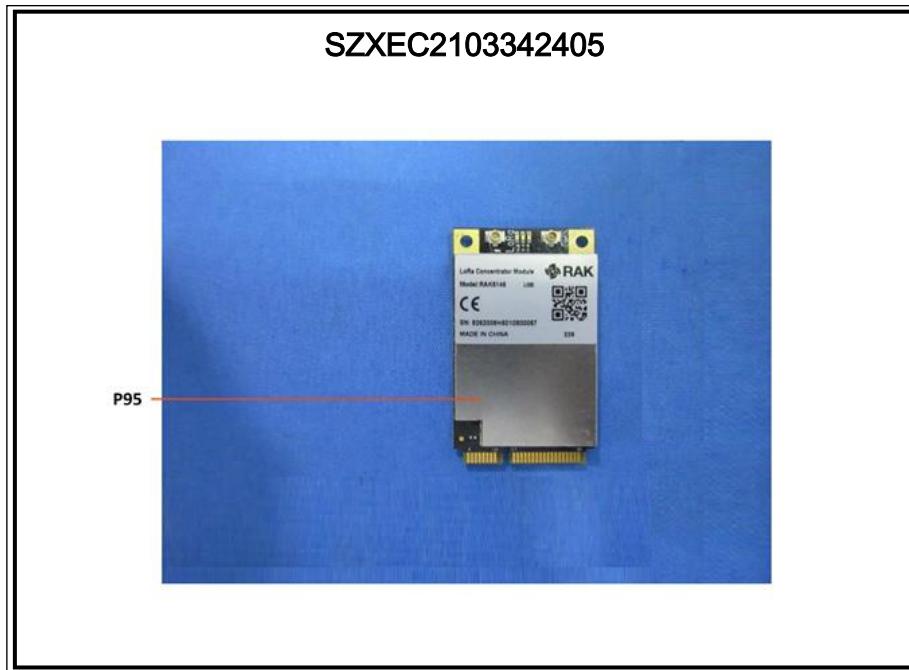
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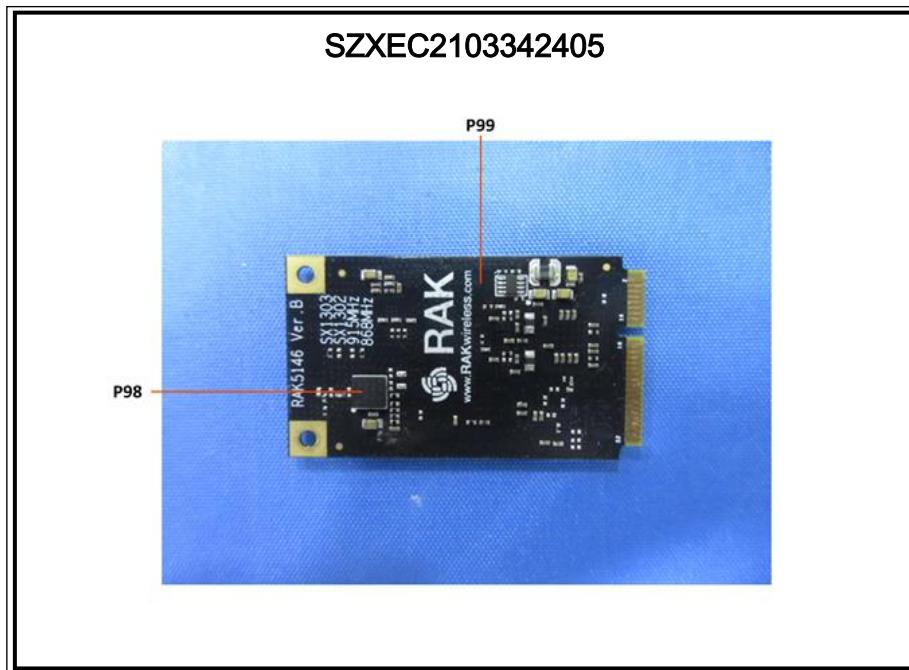
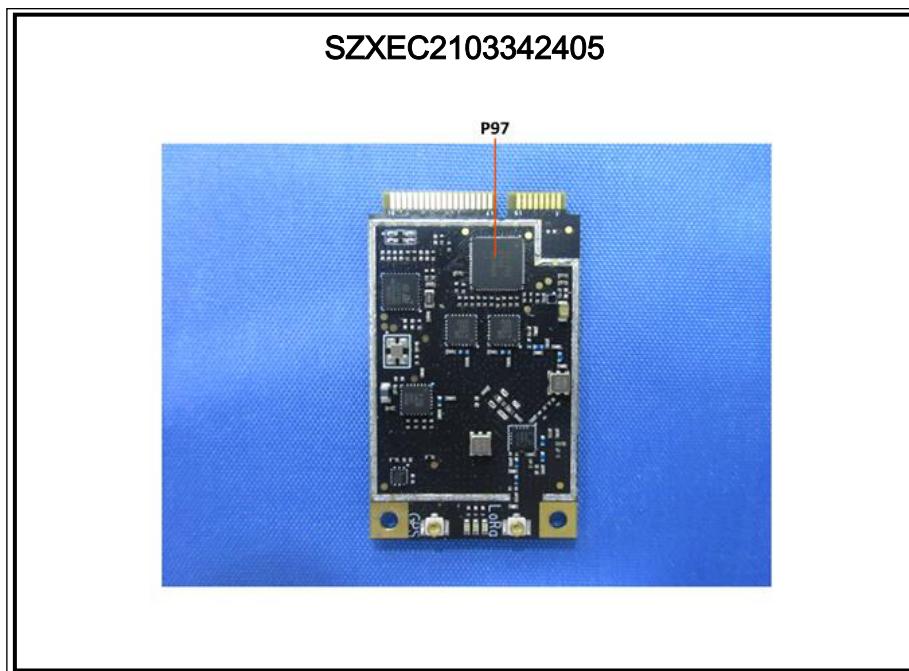
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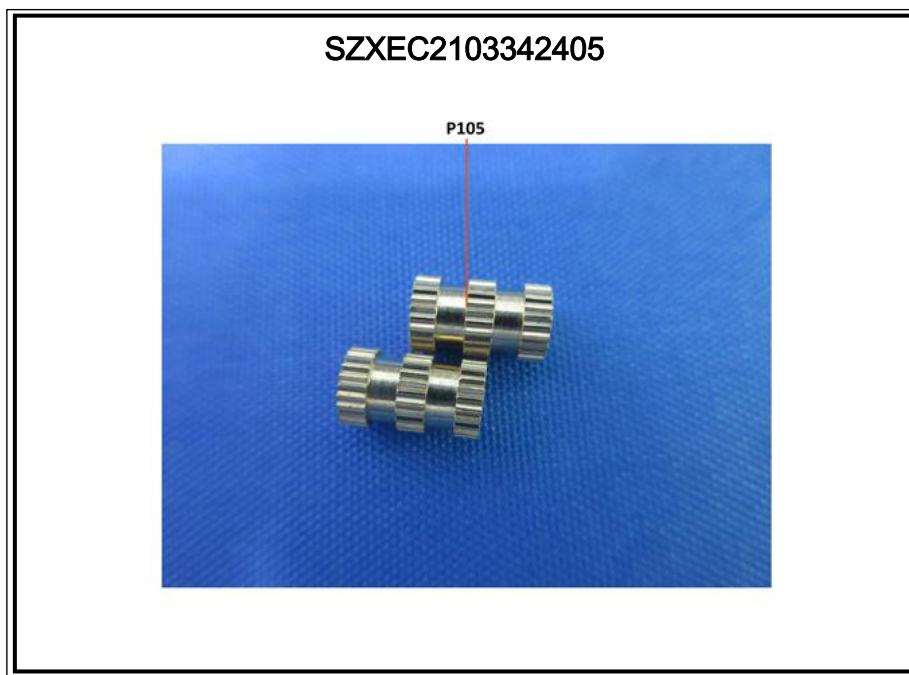
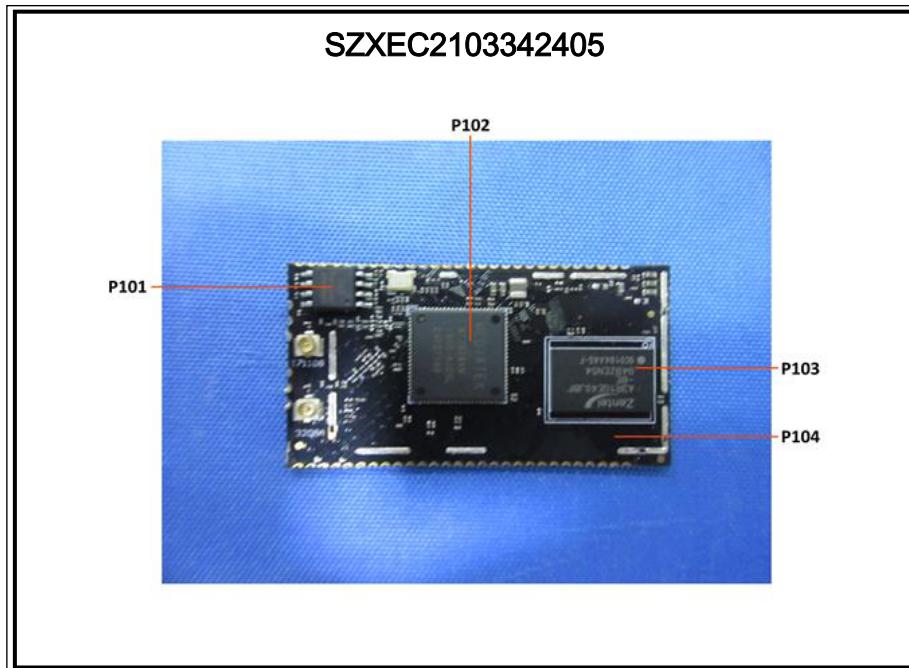
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