Report No.: 18300RC10225801

Test Report

Client Name	:	Arduino SRL
Address	:	Via Kennedy 36/B, Strambino, 10019, Italy
Product Name	:	Arduino Sensor Kit - Base
Date	:	June 15, 2021

Shenzhen Anbotek Compliance Laboratory Limited

Test Report

Applicant	:	Arduino SRL
Address	:	Via Kennedy 36/B, Strambino, 10019, Italy

The submitted sample and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	:	Arduino Sensor Kit - Base
Test Model No.	:	103030355
Manufacturer	:	Seeed Technology Co., Ltd.
Supplier	:	Seeed Technology Co., Ltd.
Buyer	:	Arduino SRL
Trade Mark	:	Seeed Studio
Country of Destination	:	Europe
Sample Received Date	:	May 20, 2021; June 09, 2021
Testing Period	:	May 20, 2021 to June 10, 2021
Test Requested	:	As specified by client, based on the list published by European chemicals agency (ECHA) for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the two hundred and eleven (211) Substances of Very High Concern (SVHC) in the selected material of the submitted sample.

Test Method: In-House method-Analyzed by ICP-OES, UV-Vis, HPLC, LC-MS-MS, GC, GC-MS and colorimetric method

Test Result(s): Please refer to the following 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.	PASS

Edited by Rosy Zhao Reviewed by Rose Yang Authorized Signatory Wendy Wang

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Test Report

Tested Sample/Part Description:

Tested Groups	Description	Photo No.	Component
A#	Metal mixed	7	Silvery metal contact pin
		10	Silvery metal shell
		18	Silvery metal pin
		19	Copper-colored metal electrical contact
		23	Metal frame with gray coating
		27	Silvery metal pin
		32	Silvery metal frame
		37	Silvery metal frame
		39	Silvery metal patch
		48	Silvery metal cable core
B#	Nonmetal mixed	1	Red LED light
		2	White plastic column
		3	White plastic pedestal
		4	Black glass display
		5	Blue PCB board
		6	Blue plastic block
		8	Green LED light
		9	IC
		11	Chip resistor
		12	White LED light
		13	Chip audion
		14	Chip capacitor
		15	White foam
		16	Yellow FPC
		17	IC
		20	Black plastic block
		21	White plastic frame
		22	White plastic sheet
		24	White plastic key
		25	Black plastic shell
		26	Black plastic spacer
		28	White ceramic sheet
		29	White plastic block

Test Report

Tested Groups	Description	Photo No.	Component
B#	Nonmetal mixed	30	Black plastic key
		31	Black plastic pedestal
		33	Black plastic knob
		34	Black plastic block
		35	Black plastic block
		36	Orange plastic block
		38	Black plastic block
		40	White plastic ring
		41	White plastic patch
		42	Green PCB board
		43	Black sponge
		44	Yellow plastic jacket
		45	White plastic jacket
		46	Red plastic jacket
		47	Black plastic jacket

Test Report

Test Result(s):

The first fifteen Substances of Very High Concern (Released in Oct, 2008)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
1	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	0.005	N.D.	N.D.
2	Diarsenic pentaoxide**	1303-28-2	215-116-9	0.01	N.D.	N.D.
3	Diarsenic trioxide**	1327-53-3	215-481-4	0.01	N.D.	N.D.
4	Triethyl arsenate**	15606-95-8	427-700-2	0.01	N.D.	N.D.
5	Lead hydrogen arsenate**	7784-40-9	232-064-2	0.01	N.D.	N.D.
6	Cobalt dichloride**	7646-79-9	231-589-4	0.01	N.D.	N.D.
7	Sodium dichromate **	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.	N.D.
8	Anthracene	120-12-7	204-371-1	0.005	N.D.	N.D.
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	0.005	N.D.	N.D.
10	Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.005	N.D.	N.D.
11	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.005	N.D.	N.D.
12	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.005	N.D.	N.D.
13	Di-2-ethylhexyl phthalate(DEHP)	117-81-7	204-211-0	0.005	N.D.	N.D.
14	Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified	25637-99-4, 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	247-148-4, 221-695-9	0.005	N.D.	N.D.
15	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	0.01	N.D.	N.D.

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The second thirteen Substances of Very High Concern (Released in Jan, 2010 and Mar, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
16	Anthracene oil	90640-80-5	292-602-7	0.05	N.D.	N.D.
17	Anthracene oil, anthracene paste,distn. lights	91995-17-4	295-278-5	0.05	N.D.	N.D.
18	Anthracene oil, anthracene paste,anthracene fraction	91995-15-2	295-275-9	0.05	N.D.	N.D.
19	Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.05	N.D.	N.D.
20	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.05	N.D.	N.D.
21	Pitch, coal tar, high temp.	65996-93-2	266-028-2	0.05	N.D.	N.D.
22	Acrylamide	79-06-1	201-173-7	0.01	N.D.	N.D.
23	2,4-Dinitrotoluene	121-14-2	204-450-0	0.01	N.D.	N.D.
24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005	N.D.	N.D.
25	Lead chromate**	7758-97-6	231-846-0	0.05	N.D.	N.D.
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) **	12656-85-8	235-759-9	0.05	N.D.	N.D.
27	Lead sulfochromate yellow (C.I.Pigment Yellow 34) **	1344-37-2	215-693-7	0.05	N.D.	N.D.
28	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.01	N.D.	N.D.

The third eight Substances of Very High Concern (Released in Jun, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
29	Trichloroethylene	79-01-6	201-167-4	0.005	N.D.	N.D.
30	Boric acid**	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.01	N.D.	N.D.
31	Disodium tetraborate, anhydrous**	1330-43-4/ 12179-04-3/ 1303-96-4	215-540-4	0.01	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
32	Tetraboron disodium heptaoxide, hydrate**	12267-73-1	235-541-3	0.01	N.D.	N.D.
33	Sodium chromate**	7775-11-3	231-889-5	0.01	N.D.	N.D.
34	Potassium chromate**	7789-00-6	232-140-5	0.01	N.D.	N.D.
35	Ammonium dichromate**	7789-09-5	232-143-1	0.01	N.D.	N.D.
36	Potassium dichromate**	7778-50-9	231-906-6	0.01	N.D.	N.D.

The fourth eight Substances of Very High Concern (Released in Dec, 2010)

Code	Test Item		CAS No.	EC No.	Report Limit (%)	Report Results (%)	
						A#	B#
37	Cobalt(II) sulphate**		10124-43-3	233-334-2	0.01	N.D.	N.D.
38	Cobalt(II) dinitrate**		10141-05-6	233-402-1	0.01	N.D.	N.D.
39	Cobalt(II) carbonate**		513-79-1	208-169-4	0.01	N.D.	N.D.
40	Cobalt(II) diacetate**		71-48-7	200-755-8	0.01	N.D.	N.D.
41	2-Methoxyethanol		109-86-4	203-713-7	0.005	N.D.	N.D.
42	2-Ethoxyethanol		110-80-5	203-804-1	0.005	N.D.	N.D.
43	Chromium trioxide**		1333-82-0	215-607-8	0.01	N.D.	N.D.
44	Acids generated from chromium trioxide and their oligomers	Chromic acid**	7738-94-5	231-801-5	0.01	N.D.	N.D.
		Dichromic acid**	13530-68-2	236-881-5	0.01	N.D.	N.D.
		Oligomers of chromic acid and dichromic acid**	--	--	0.01	N.D.	N.D.

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The fifth seven Substances of Very High Concern (Released in Jun, 2011)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
45	2-Ethoxyethyl acetate	111-15-9	203-839-2	0.01	N.D.	N.D.
46	Strontium chromate**	7789-06-2	232-142-6	0.01	N.D.	N.D.
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)*	68515-42-4	271-084-6	0.01	N.D.	N.D.
48	Hydrazine	7803-57-8/ 302-01-2	206-114-9	0.01	N.D.	N.D.
49	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	0.01	N.D.	N.D.
50	1,2,3-Trichloropropane	96-18-4	202-486-1	0.01	N.D.	N.D.
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich(DIHP)	71888-89-6	276-158-1	0.01	N.D.	N.D.

The sixth twenty Substances of Very High Concern (Released in Dec, 2011)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
52	Dichromium tris(chromate)**	24613-89-6	246-356-2	0.01	N.D.	N.D.
53	Potassium hydroxyoctaoxodizincatedichromate**	11103-86-9	234-329-8	0.01	N.D.	N.D.
54	Pentazinc chromate octahydroxide**	49663-84-5	256-418-0	0.01	N.D.	N.D.
55	Aluminosilicate Refractory Ceramic Fibres (RCF)**	--	--	0.05	N.D.	N.D.
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	--	--	0.05	N.D.	N.D.
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.01	N.D.	N.D.
58	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	204-212-6	0.005	N.D.	N.D.
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.005	N.D.	N.D.
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.005	N.D.	N.D.

Test Report

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
61	1,2-Dichloroethane	107-06-2	203-458-1	0.005	N.D.	N.D.
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.005	N.D.	N.D.
63	Arsenic acid**	7778-39-4	231-901-9	0.01	N.D.	N.D.
64	Calcium arsenate**	7778-44-1	231-904-5	0.01	N.D.	N.D.
65	Trilead diarsenate**	3687-31-8	222-979-5	0.01	N.D.	N.D.
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005	N.D.	N.D.
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.005	N.D.	N.D.
68	Phenolphthalein	77-09-8	201-004-7	0.005	N.D.	N.D.
69	Lead diazide Lead azide **	13424-46-9	236-542-1	0.01	N.D.	N.D.
70	Lead styphnate**	15245-44-0	239-290-0	0.01	N.D.	N.D.
71	Lead dipicrate**	6477-64-1	229-335-2	0.01	N.D.	N.D.

The seventh thirteen Substances of Very High Concern (Released in Jun, 2012)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
72	1,2-bis(2-methoxyethoxy)ethane(TEGDME; triglyme)	112-49-2	203-977-3	0.01	N.D.	N.D.
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01	N.D.	N.D.
74	Diboron trioxide**	1303-86-2	215-125-8	0.01	N.D.	N.D.
75	Formamide	75-12-7	200-842-0	0.01	N.D.	N.D.
76	Lead(II) bis(methanesulfonate) **	17570-76-2	401-750-5	0.01	N.D.	N.D.
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine- 2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.01	N.D.	N.D.
78	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	423-400-0	0.01	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.01	N.D.	N.D.
80	N,N,N',N'-tetramethyl-4,4'-methylenedi aniline (Michler's base)	101-61-1	202-959-2	0.01	N.D.	N.D.
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	0.01	N.D.	N.D.
82	[4-[[4-anilino-1-naphthyl][4-(dimethyla mino)phenyl] methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	0.01	N.D.	N.D.
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.01	N.D.	N.D.
84	4,4'-bis(dimethylamino)-4"-(methylami no)trityl alcohol	561-41-1	209-218-2	0.01	N.D.	N.D.

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The eighth fifty-four Substances of Very High Concern (Released in Dec, 2012)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.05	N.D.	N.D.
86	Pentacosafluorotridecanoic acid	72629-94-8	276-745-2	0.05	N.D.	N.D.
87	Tricosafluorododecanoic acid	307-55-1	206-203-2	0.05	N.D.	N.D.
88	Henicosafluoroundecanoic acid	2058-94-8	218-165-4	0.05	N.D.	N.D.
89	Heptacosafluorotetradecanoic acid	376-06-7	206-803-4	0.05	N.D.	N.D.
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	--	--	0.05	N.D.	N.D.
91	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	--	--	0.05	N.D.	N.D.
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.05	N.D.	N.D.
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9	0.05	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
94	Hexahydromethylphathalic anhy, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.05	N.D.	N.D.
95	Methoxy acetic acid	625-45-6	210-894-6	0.05	N.D.	N.D.
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.05	N.D.	N.D.
97	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	0.05	N.D.	N.D.
98	N-pentyl-isopentylphtalate	776297-69-9	--	0.05	N.D.	N.D.
99	1,2-Diethoxyethane	629-14-1	211-076-1	0.05	N.D.	N.D.
100	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	0.05	N.D.	N.D.
101	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	0.05	N.D.	N.D.
102	Acetic acid, lead salt, basic**	51404-69-4	257-175-3	0.01	N.D.	N.D.
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide) **	1319-46-6	215-290-6	0.01	N.D.	N.D.
104	Lead oxide sulfate (basic lead sulfate) **	12036-76-9	234-853-7	0.01	N.D.	N.D.
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate) **	69011-06-9	273-688-5	0.01	N.D.	N.D.
106	Dioxobis(stearato)trilead**	12578-12-0	235-702-8	0.01	N.D.	N.D.
107	Fatty acids, C16-18, lead salts**	91031-62-8	292-966-7	0.01	N.D.	N.D.
108	Lead bis(tetrafluoroborate) **	13814-96-5	237-486-0	0.01	N.D.	N.D.
109	Lead cynamidate**	20837-86-9	244-073-9	0.01	N.D.	N.D.
110	Lead dinitrate**	10099-74-8	233-245-9	0.01	N.D.	N.D.
111	Lead oxide (lead monoxide) **	1317-36-8	215-267-0	0.01	N.D.	N.D.
112	Lead tetroxide (orange lead) **	1314-41-6	215-235-6	0.01	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
113	Lead titanium trioxide**	12060-00-3	235-038-9	0.01	N.D.	N.D.
114	Lead Titanium Zirconium Oxide**	12626-81-2	235-727-4	0.01	N.D.	N.D.
115	Pentalead tetraoxide sulphate**	12065-90-6	235-067-7	0.01	N.D.	N.D.
116	Pyrochlore, antimony lead yellow**	8012 -00-8	232-382-1	0.01	N.D.	N.D.
117	Silicic acid, barium salt, lead-doped**	68784-75-8	272-271-5	0.01	N.D.	N.D.
118	Silicic acid, lead salt**	11120-22-2	234-363-3	0.01	N.D.	N.D.
119	Sulfurous acid, lead salt, dibasic**	62229-08-7	263-467-1	0.01	N.D.	N.D.
120	Tetraethyllead**	78-00-2	201-075-4	0.01	N.D.	N.D.
121	Tetralead trioxide sulphate**	12202-17-4	235-380-9	0.01	N.D.	N.D.
122	Trilead dioxide phosphonate**	12141-20-7	235-252-2	0.01	N.D.	N.D.
123	Furan	110-00-9	203-727-3	0.05	N.D.	N.D.
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.05	N.D.	N.D.
125	Diethyl sulphate	64-67-5	200-589-6	0.05	N.D.	N.D.
126	Dimethyl sulphate	77-78-1	201-058-1	0.05	N.D.	N.D.
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxaz olidine	143860-04-2	421-150-7	0.05	N.D.	N.D.
128	Dinoseb	88-85-7	201-861-7	0.05	N.D.	N.D.
129	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.05	N.D.	N.D.
130	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05	N.D.	N.D.
131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	0.05	N.D.	N.D.
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	0.05	N.D.	N.D.
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.05	N.D.	N.D.
134	Biphenyl-4-ylamine	92-67-1	202-177-1	0.05	N.D.	N.D.
135	o-aminoazotoluene	97-56-3	202-591-2	0.05	N.D.	N.D.
136	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.05	N.D.	N.D.

Test Report

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
137	N-methylacetamide	79-16-3	201-182-6	0.05	N.D.	N.D.
138	1-bromopropane; n-propyl bromide	106-94-5	203-445-0	0.05	N.D.	N.D.

The ninth six Substances of Very High Concern (Released in Jun, 2013)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
139	Cadmium **	7440-43-9	231-152-8	0.01	N.D.	N.D.
140	Cadmium oxide **	1306-19-0	215-146-2	0.01	N.D.	N.D.
141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.01	N.D.	N.D.
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol , ethoxylated covering UVCB- and well-defined substances, polymers and homologues]	/	/	0.05	N.D.	N.D.
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.01	N.D.	N.D.
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.01	N.D.	N.D.

The tenth seven Substances of Very High Concern (Released in Dec, 2013)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
145	Cadmium sulphide**	1306-23-6	215-147-8	0.01	N.D.	N.D.
146	Dihexyl phthalate	84-75-3	201-559-5	0.01	N.D.	N.D.
147	C.I. Direct Red 28	573-58-0	209-358-4	0.01	N.D.	N.D.
148	C.I. Direct Black 38	1937-37-7	217-710-3	0.01	N.D.	N.D.

Test Report

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
149	2-imidazoline-2-thiol	96-45-7	202-506-9	0.01	N.D.	N.D.
150	Lead di(acetate)**	301-04-2	206-104-4	0.01	N.D.	N.D.
151	Trixylyl phosphate	25155-23-1	246-677-8	0.01	N.D.	N.D.

The eleventh four Substances of Very High Concern (Released in Jun, 2014)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.01	N.D.	N.D.
153	Cadmium chloride**	10108-64-2	233-296-7	0.01	N.D.	N.D.
154	Sodium perborate; perboric acid, sodium salt**	-	239-172-9; 234-390-0	0.01	N.D.	N.D.
155	Sodium peroxometaborate**	7632-04-4	231-556-4	0.01	N.D.	N.D.

The Twelfth six Substances of Very High Concern (Released in Dec, 2014)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
156	Cadmium fluoride**	7790-79-6	232-222-0	0.01	N.D.	N.D.
157	Cadmium sulphate**	10124-36-4, 31119-53-6	233-331-6	0.01	N.D.	N.D.
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.05	N.D.	N.D.
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-284-8	0.05	N.D.	N.D.
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	0.01	N.D.	N.D.

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Test Report

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 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 and MOTE)	--	--	0.05	N.D.	N.D.

The Thirteenth two Substances of Very High Concern (Released in Jun, 2015)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5, 68648-93-1	271-094-0 272-013-1	0.05	N.D.	N.D.
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]	--	--	0.05	N.D.	N.D.

The Fourteen five Substances of Very High Concern (Released in Dec, 2015)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
164	Nitrobenzene	98-95-3	202-716-0	0.05	N.D.	N.D.
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.05	N.D.	N.D.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.05	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
167	1,3-propanesultone	1120-71-4	214-317-9	0.05	N.D.	N.D.
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	0.05	N.D.	N.D.

The Fifteen one Substance of Very High Concern (Released in Jun, 2016)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.005	N.D.	N.D.

The Sixteen four Substance of Very High Concern (Released in Jan, 2017)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	201-245-8	0.005	N.D.	N.D.
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	206-400-3 - 221-470-5	0.005	N.D.	N.D.
172	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.005	N.D.	N.D.
173	4-heptylphenol, branched and linear (4-HPbl)	-	-	0.005	N.D.	N.D.

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The Seventeen one Substance of Very High Concern (Released in Jul, 2017)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	0.005	N.D.	N.D.

The Eighteen seven Substances of Very High Concern (Released in Jan, 2018)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
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”TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-	0.0005	N.D.	N.D.
176	Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6	0.005	N.D.	N.D.
177	Cadmium nitrate**	10022-68-1, 10325-94-7	233-710-6	0.01	N.D.	N.D.
178	Cadmium carbonate**	513-78-0	208-168-9	0.01	N.D.	N.D.
179	Cadmium hydroxide**	21041-95-2	244-168-5	0.01	N.D.	N.D.
180	Chrysene	218-01-9, 1719-03-5	205-923-4	0.005	N.D.	N.D.
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]	-	-	0.0005	N.D.	N.D.

Test Report

The Nineteen ten Substances of Very High Concern (Released in Jun, 2018)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.01	N.D.	N.D.
183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01	N.D.	N.D.
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.01	N.D.	N.D.
185	Lead**	7439-92-1	231-100-4	0.01	N.D.	N.D.
186	Disodium octaborate**	12008-41-2	234-541-0	0.01	N.D.	N.D.
187	Benzo[ghi]perylene	191-24-2	205-883-8	0.01	N.D.	N.D.
188	Terphenyl hydrogenated	61788-32-7	262-967-7	0.01	N.D.	N.D.
189	Ethylenediamine (EDA)	107-15-3	203-468-6	0.01	N.D.	N.D.
190	Trimellitic anhydride (TMA)	552-30-7	209-008-0	0.01	N.D.	N.D.
191	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.01	N.D.	N.D.

The Twenty six Substances of Very High Concern (Released in Jan, 2019)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
192	Pyrene	129-00-0	204-927-3	0.01	N.D.	N.D.
193	Phenanthrene	85-01-8	201-581-5	0.01	N.D.	N.D.
194	Fluoranthene	206-44-0	205-912-4	0.01	N.D.	N.D.
195	Benzo[k]fluoranthene	207-08-9	205-916-6	0.01	N.D.	N.D.
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane (Bisphenol P)	6807-17-6	401-720-1	0.01	N.D.	N.D.
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	15087-24-8	239-139-9	0.01	N.D.	N.D.

Test Report

The Twenty one four Substances of Very High Concern (Released in July, 2019)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.01	N.D.	N.D.
199	4-tert-butylphenol	98-54-4	202-679-0	0.01	N.D.	N.D.
200	2-methoxyethyl acetate	110-49-6	203-772-9	0.01	N.D.	N.D.
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-	0.01	N.D.	N.D.

The Twenty two four Substances of Very High Concern (Released in Jan, 2020)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	0.01	N.D.	N.D.
203	2-methyl-1- (4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.01	N.D.	N.D.
204	Diisohexyl phthalate	71850-09-4	276-090-2	0.01	N.D.	N.D.
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.01	N.D.	N.D.

Test Report

The Twenty three four Substances of Very High Concern (Released in June 2020)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
206	1-vinylimidazole	1072-63-5	214-012-0	0.01	N.D.	N.D.
207	2-methylimidazole	693-98-1	211-765-7	0.01	N.D.	N.D.
208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.01	N.D.	N.D.
209	Dibutylbis(pentane-2,4-dionato-O,O') tin	22673-19-4	245-152-0	0.01	N.D.	N.D.

The Twenty four two Substances of Very High Concern (Released in Jan. 2021)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.01	N.D.	N.D.
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	-	-	0.01	N.D.	N.D.

Note:

1. mg/kg =ppm=10^{-6}
2. %=w/w
3. N.D. :< Report Limit
4. * The detected DHNUP are consisted of six phthalates which CAS number are 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 and 111381-91-0. according to the Annex 15 of REACH.
5. ** According to the 5.2.1 item of the second version of ECHA “Guidance on requirements for substances in articles”, 2011, the selected test methods only show the existence of certain elements rather than the existence of substances, using additional measurements to screen for the existence and identification of substances in a sample when necessary.

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6. Report Results: based on measurements in most cases will identify the chemical constituents in the sample but not necessarily “the substance” which were originally used to produce the article, professional consults, products information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc to obtain the assessments results according to the 5.2 item of the second version of ECHA “Guidance on requirements for substances in articles”, 2011.
7. Report Limit: Be obtained from the uncertainty, the 0.1 % threshold and the ECHA “Guidance on requirements for substances in articles”.
8. #: According to the applicant's request, the admixture of specimen A/B are tested as a whole. The testing results of specimen A/B may be different from that of any sole material in specimen A/B.

Appendix:

1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.

2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.

2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.

3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.

1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.

2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures

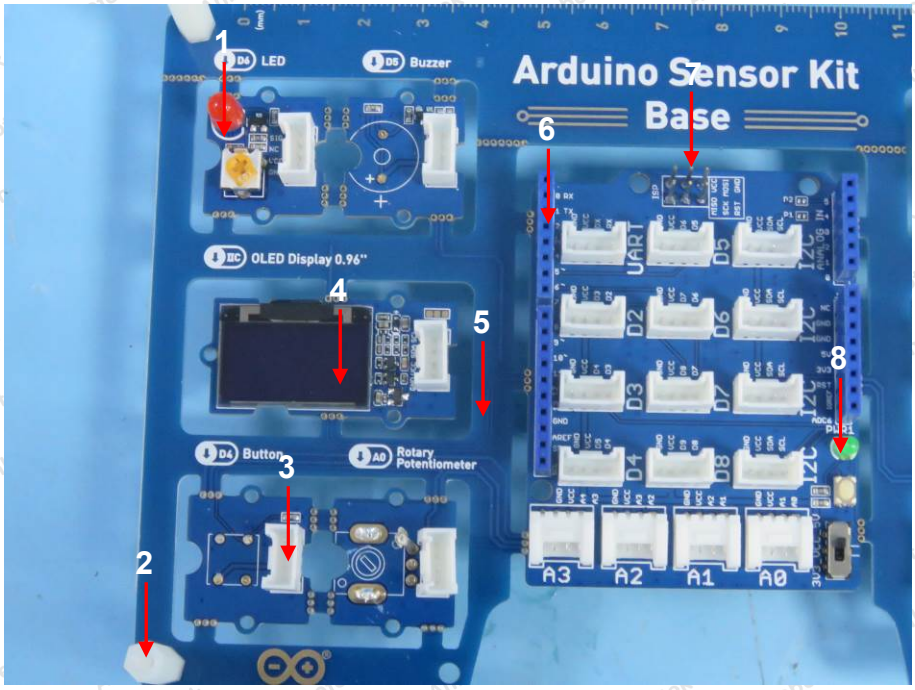
Test Report

Photograph of Sample





Test Report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Rotary Potentiometer
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A3
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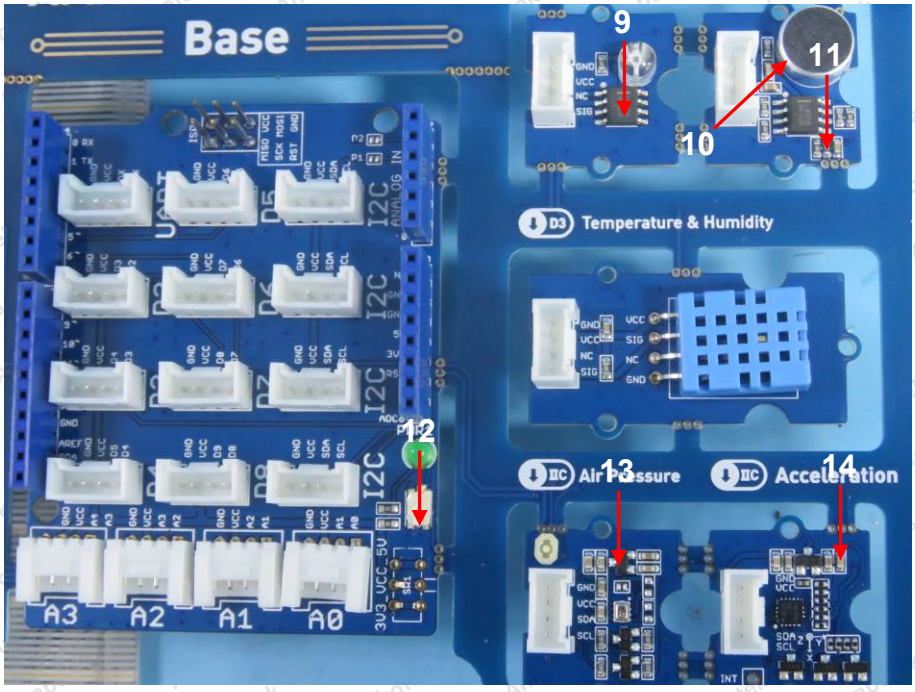
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Temperature & Humidity
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Air Pressure
Acceleration
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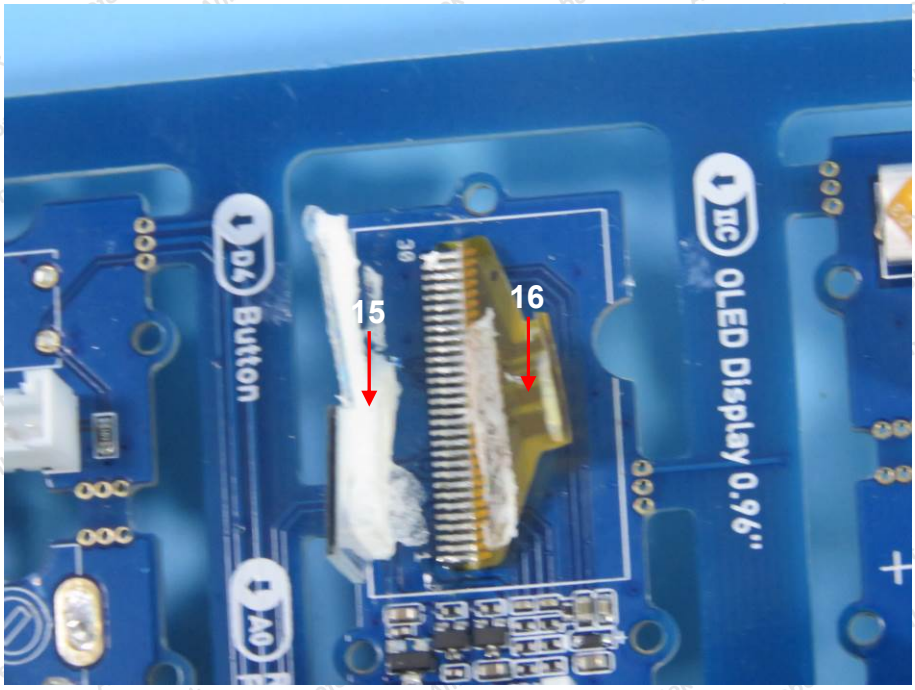
A1
A0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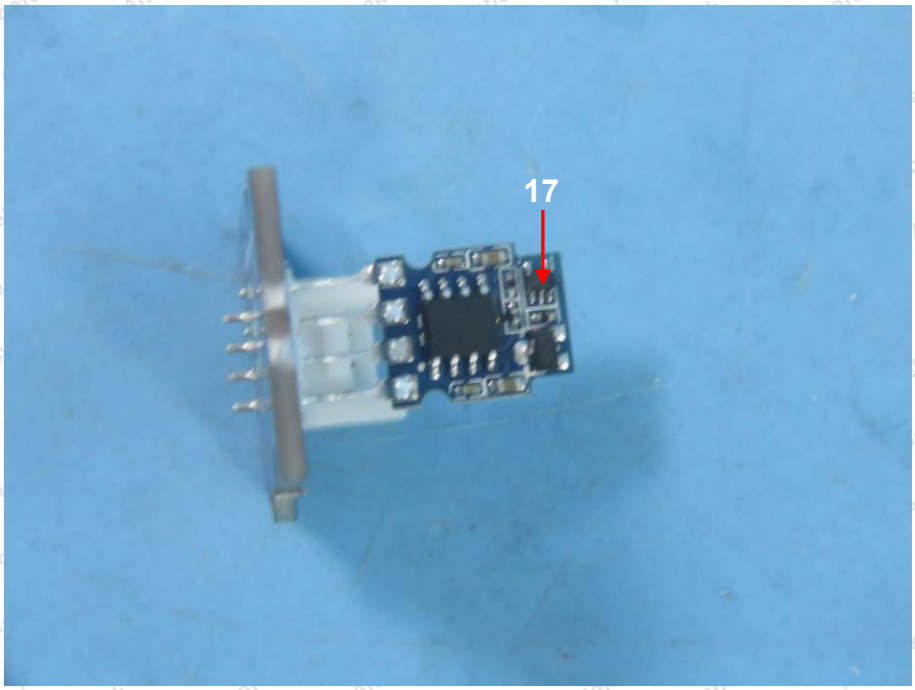
16
OLED Display 0.96"
Button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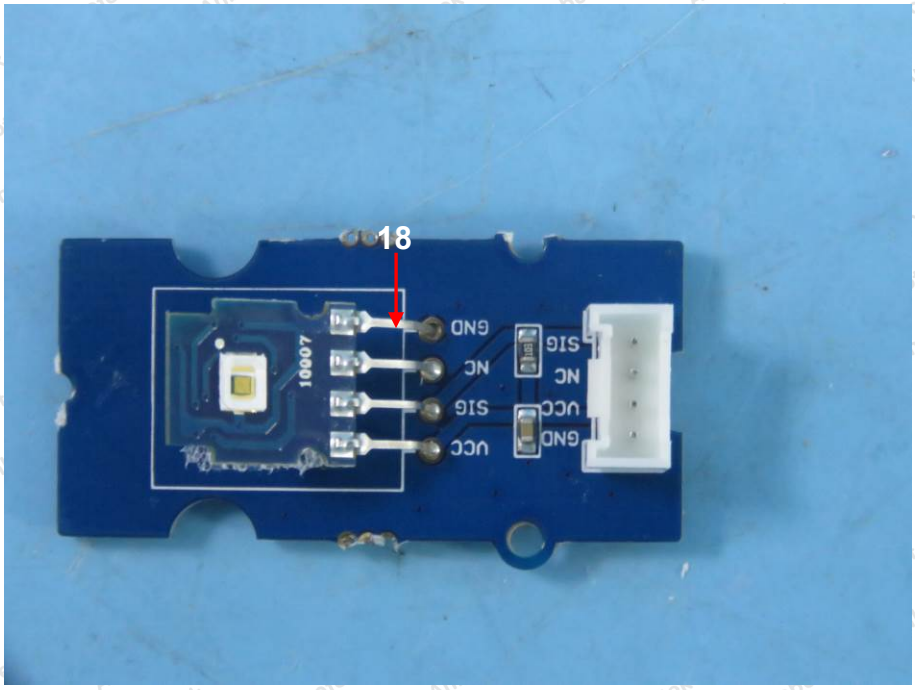
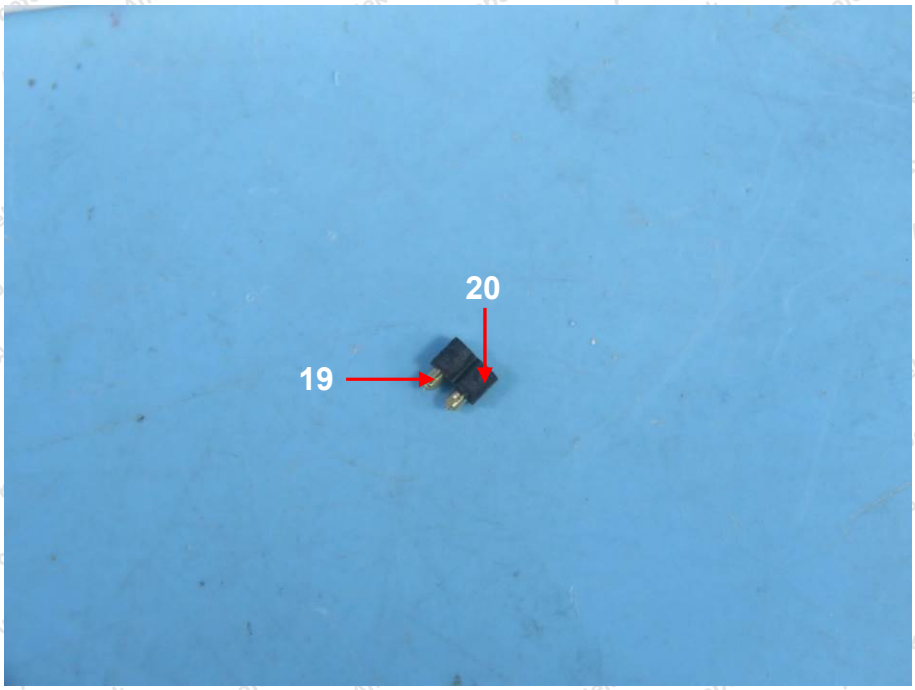
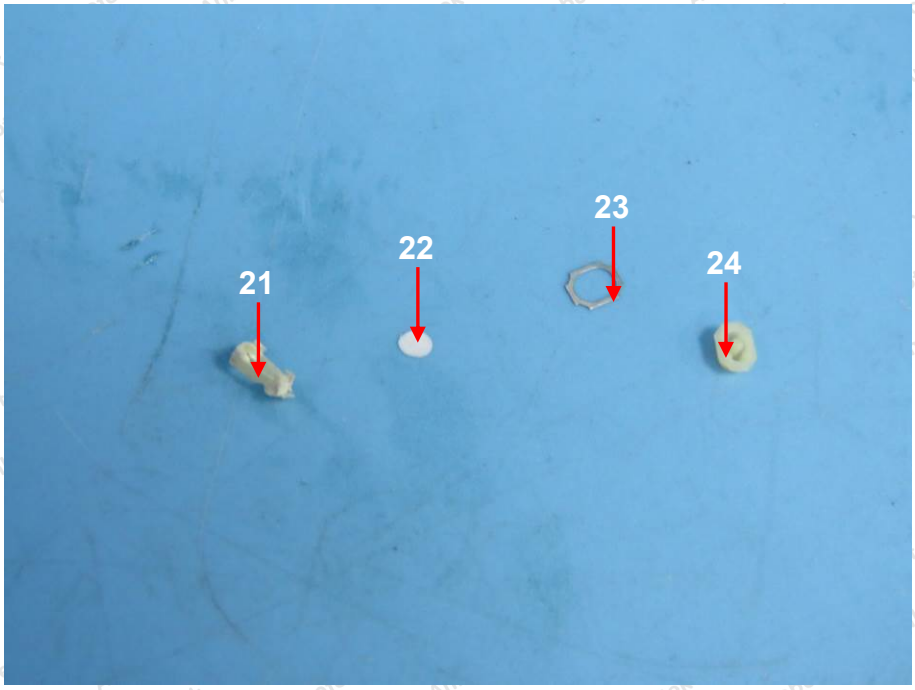
Test Report



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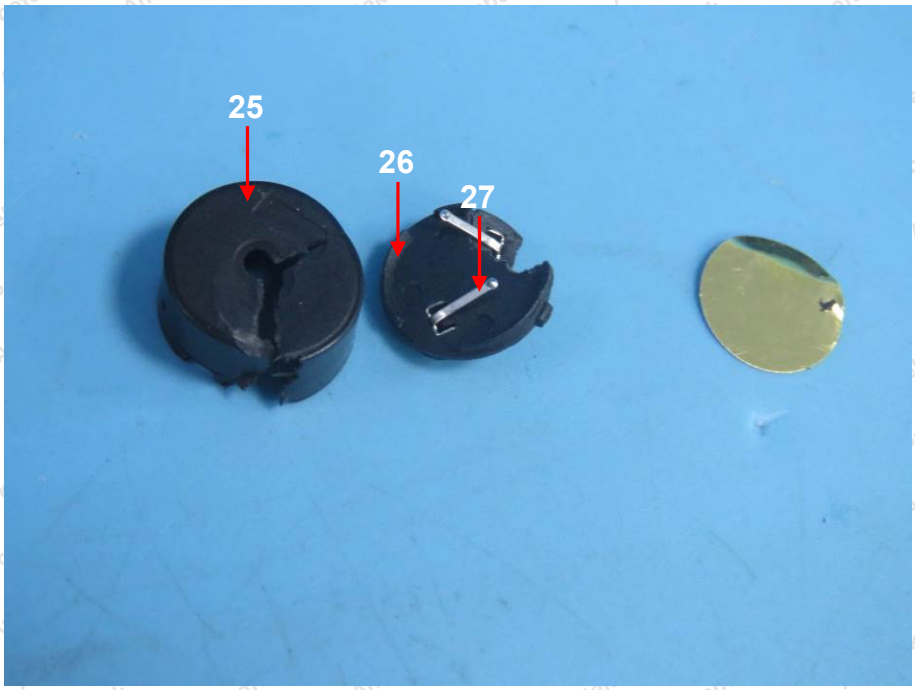
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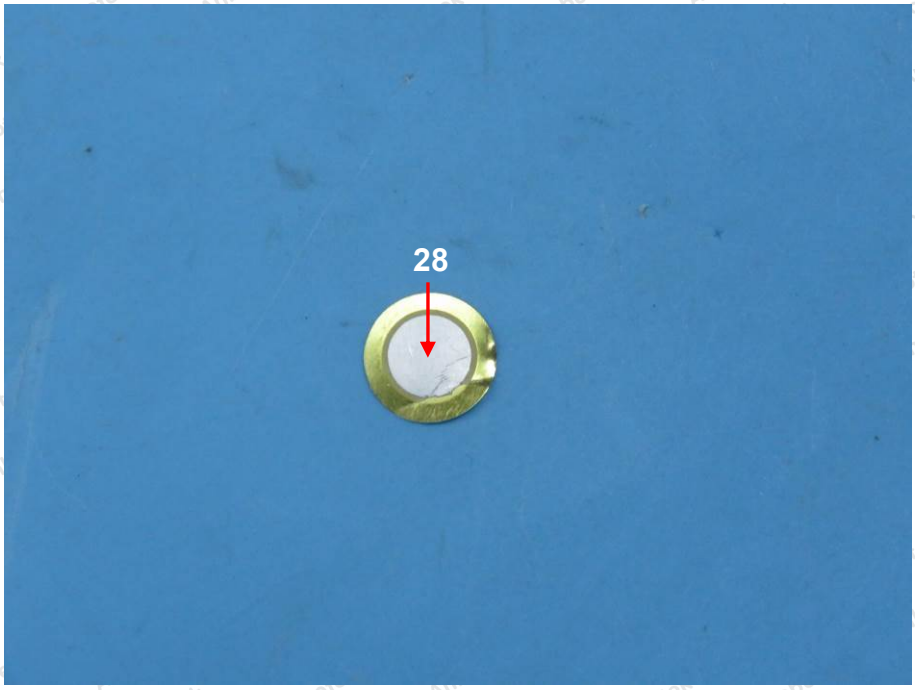
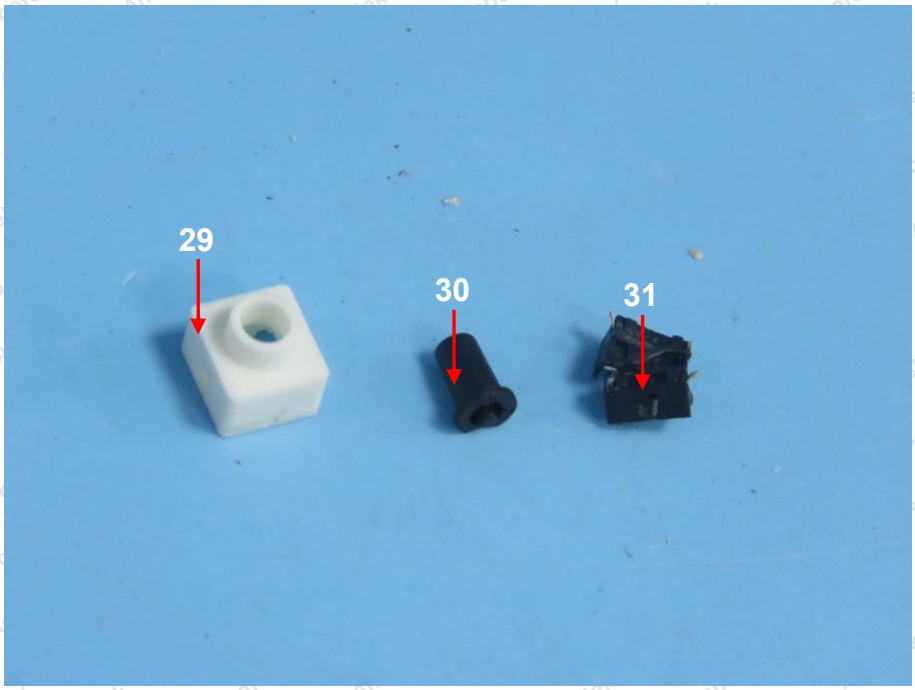
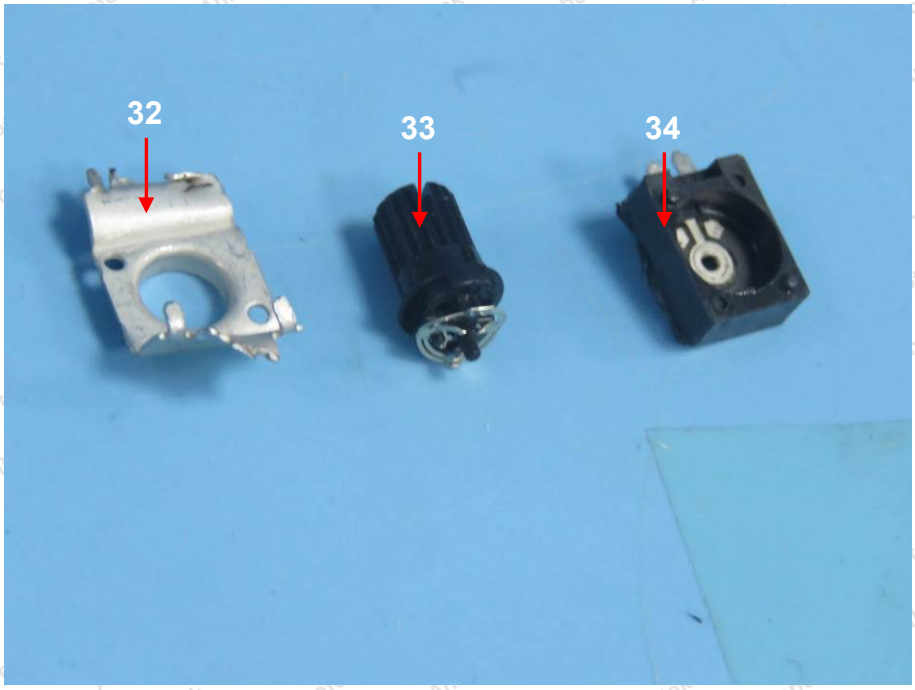
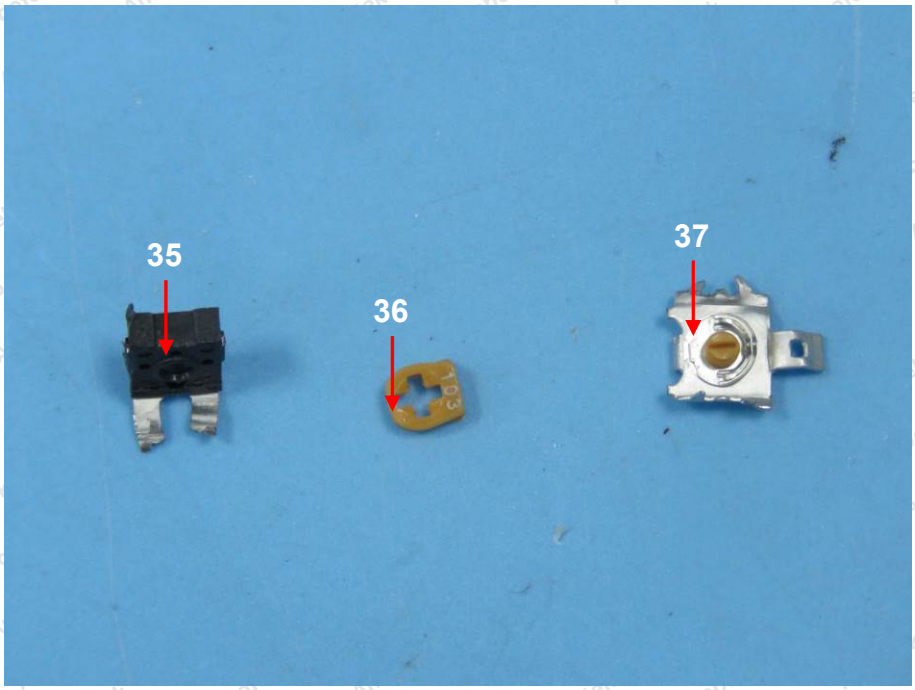
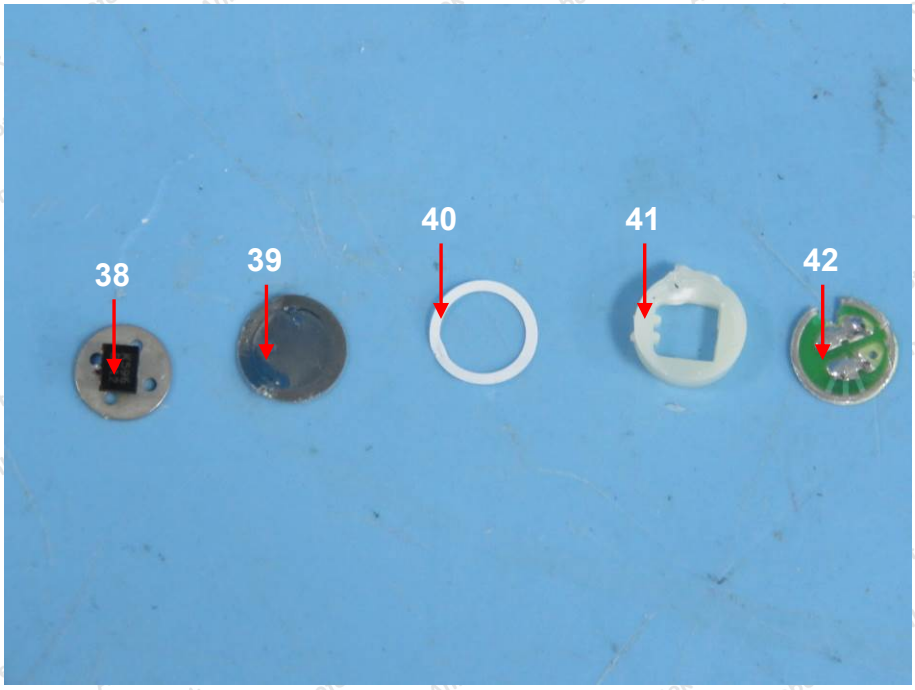




Test Report



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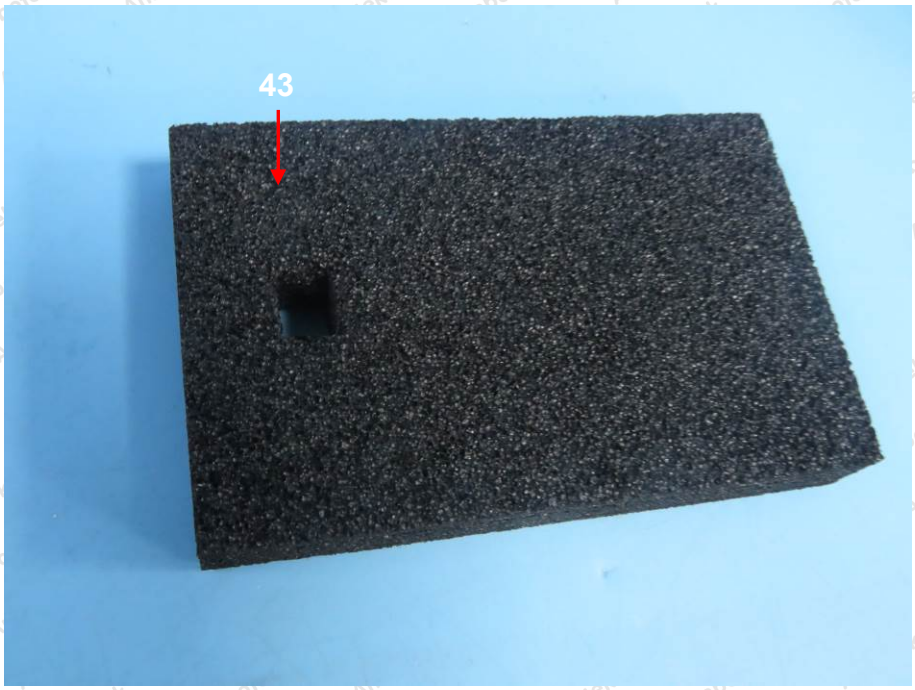
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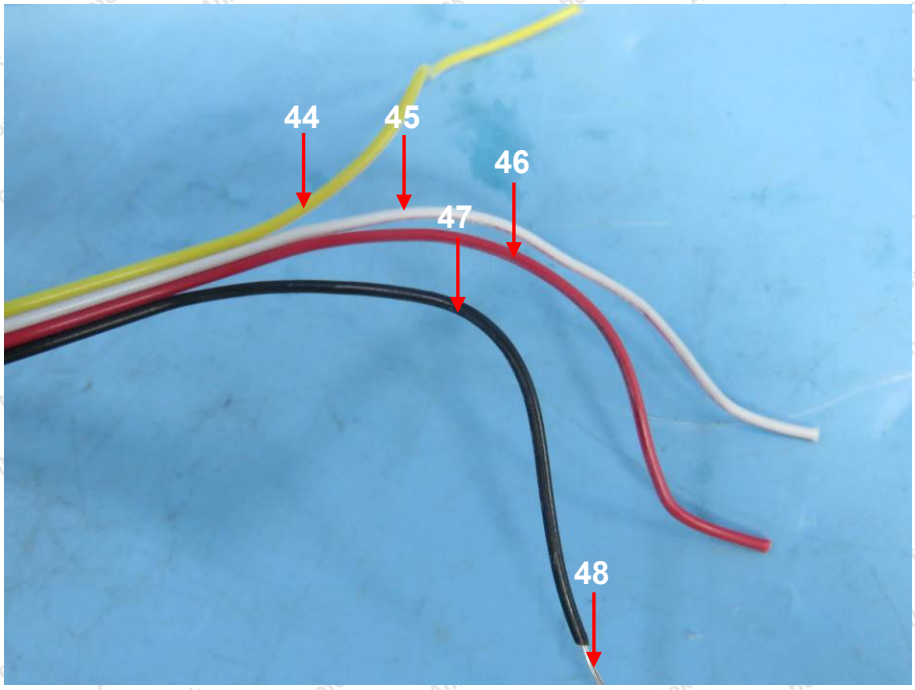
Test Report



***** End of Report *****

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