

Report No.: 18300RC00296001

Test Report

Client Name : HAVERFORD SYSTEMS, INC.

Address : 152 Robbins Road, Downingtown, PA, 19335

Product Name : HD Video Box Camera

Date : Aug. 06, 2020

**Shenzhen Anbotek Compliance Laboratory Limited****Shenzhen Anbotek Compliance Laboratory Limited**Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District,
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Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 1 of 28

Applicant : HAVERFORD SYSTEMS, INC.**Address** : 152 Robbins Road, Downingtown, PA, 19335**The submitted sample and sample information was/were submitted and identified by/on the behalf of the client****Sample Name** : HD Video Box Camera**Model No.** : PT20X-ZCAM / PT20X-NDI-ZCAM**Trade Mark** : PTZOptics**Manufacturer** : HAVERFORD SYSTEMS, INC.**Sample Received Date** : June 04, 2020**Testing Period** : June 04, 2020 to July 20, 2020

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 five (205) Substances of Very High Concern (SVHC) in the submitted sample.

Test Method: In-House method-Analyzed by ICP-OES, PLM, UV-Vis, LC-MS-MS, 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:

-Lead

Warning

Edited by Nobel LinReviewed by Rose YangAuthorized Signatory Wendy Wang

Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 2 of 28

Tested Sample/Part Description:

Tested Groups	Description	Photo No.	Component
A#	Metal mixed	1	Metal shell with grey coating
		2	Metal shell with white coating
		3	Silvery metal screw
		4	Metal screw with black coating
		5	Copper-colored metal screw
		10	Copper-colored metal contact pin
		12	Silvery metal shell
		18	Metal heat sink with black coating
		19	Copper-colored metal stud
		26	Copper-colored metal terminal
		28	Silvery metal shell
		29	Copper-colored metal port
		30	Soldering tin
		34	Silvery metal plate
		36	Silvery metal shell
B#	Nonmetal mixed	6	Red LED
		7	Black plastic button
		8	Green plastic port
		9	Black plastic shell
		11	Black plastic shell
		13	Grey inner plastic
		14	Yellow LED
		15	Green LED
		16	Black gummed paper
		17	White silicone plate
		20	Black plastic shell
		21	Transparent glass plate
		22	Black rubber plate
		23	Red transparent glass filter
		24	Black plastic line set
		25	Black plastic thermal shrinkable sleeve
		27	Red rubber sealing ring
		31	PCB board

Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 3 of 28

Tested Groups	Description	Photo No.	Component
B#	Nonmetal mixed	32	Black plastic cable clip
		33	Black plastic shell
		35	Black plastic jacket
		37	Black inner plastic



Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 4 of 28

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.

Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 5 of 28

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.

Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 6 of 28

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.
		Dichromic acid**	13530-68-2	236-881-5	0.01	N.D.
		Oligomers of chromic acid and dichromic acid**	--	--	0.01	N.D.

Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 7 of 28

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

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 8 of 28

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(TEG DME; 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.



Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 9 of 28

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-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] 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''-(methylenamino)trityl alcohol	561-41-1	209-218-2	0.01	N.D.	N.D.

Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 10 of 28

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	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.05	N.D.	N.D.
87	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.05	N.D.	N.D.
88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.05	N.D.	N.D.
89	Heptacosafuorotetradecanoic 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	Diazeno-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.



Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 11 of 28

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
94	Hexahydromethylphthalic anhy, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic 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-isopentylphthalate	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 cyanamate**	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.

Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 12 of 28

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-oxazolidine	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

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 13 of 28

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	Diethyl 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

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 14 of 28

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.

Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 15 of 28

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.

Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 16 of 28

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.

Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 17 of 28

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-Dodecac hloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-	0.0005	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

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 18 of 28

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	1.5820	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.

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					5	19
185	Lead**	7439-92-1	231-100-4	0.01	2.7010	2.8200

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					26	28
185	Lead**	7439-92-1	231-100-4	0.01	2.1650	2.7630

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					29	
185	Lead**	7439-92-1	231-100-4	0.01	1.9290	



Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 19 of 28

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.

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 $\geq 0.1\%$ 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.

Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 20 of 28

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.

Note:

1. $\text{mg/kg} = \text{ppm} = 10^{-6}$
2. $\% = \text{w/w}$
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.
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.
9. As specified by the client, all the results in this report were quoted from report 18300RC00208401, Test Sample: Integration HD Color Box Camera, Test Model No.: J2600SE Series.



Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 21 of 28

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

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 22 of 28

Photograph of Sample



Photo(s) of the tested component(s)

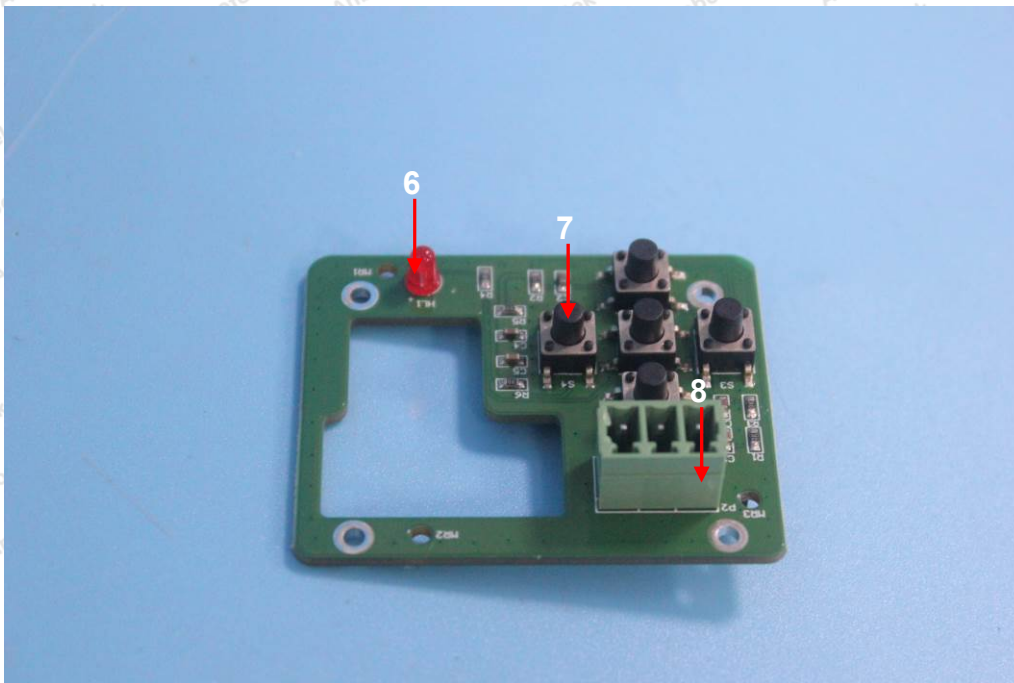
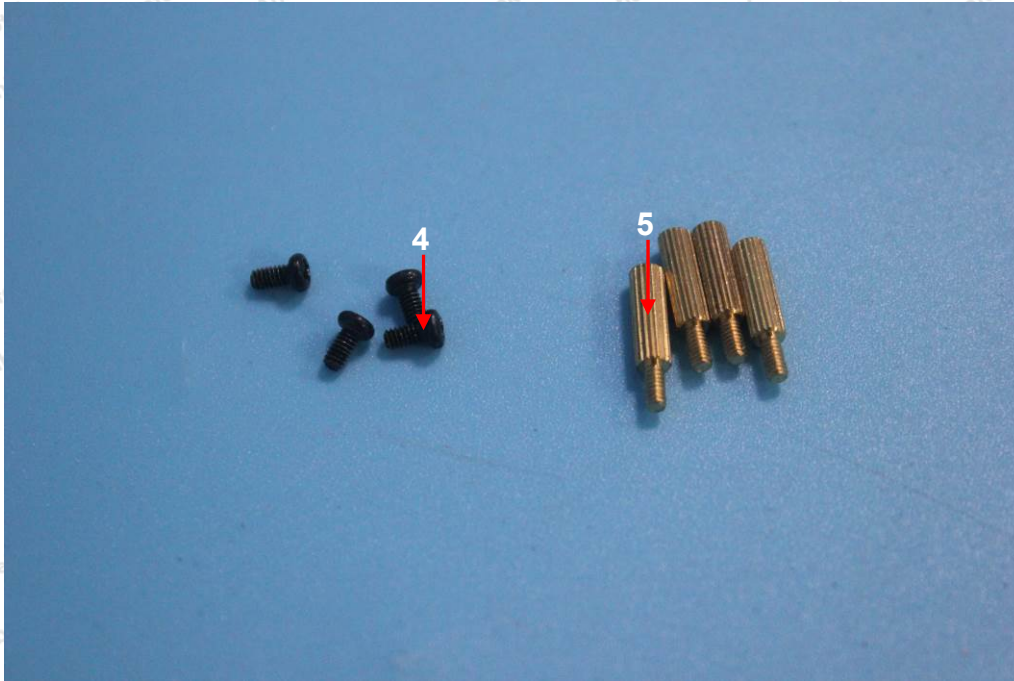


Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 23 of 28

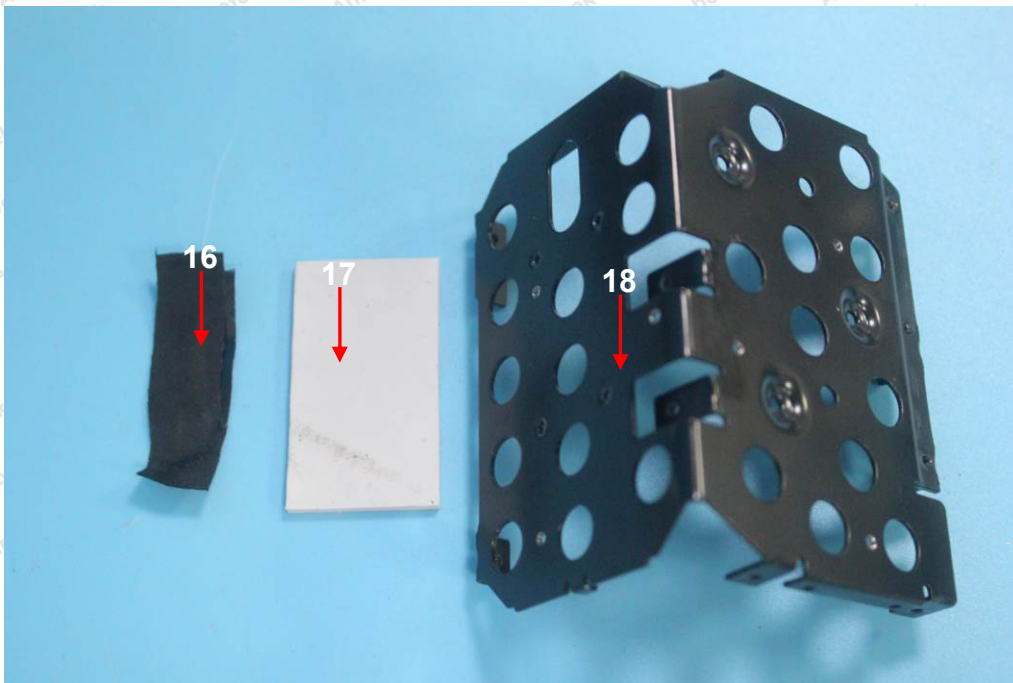
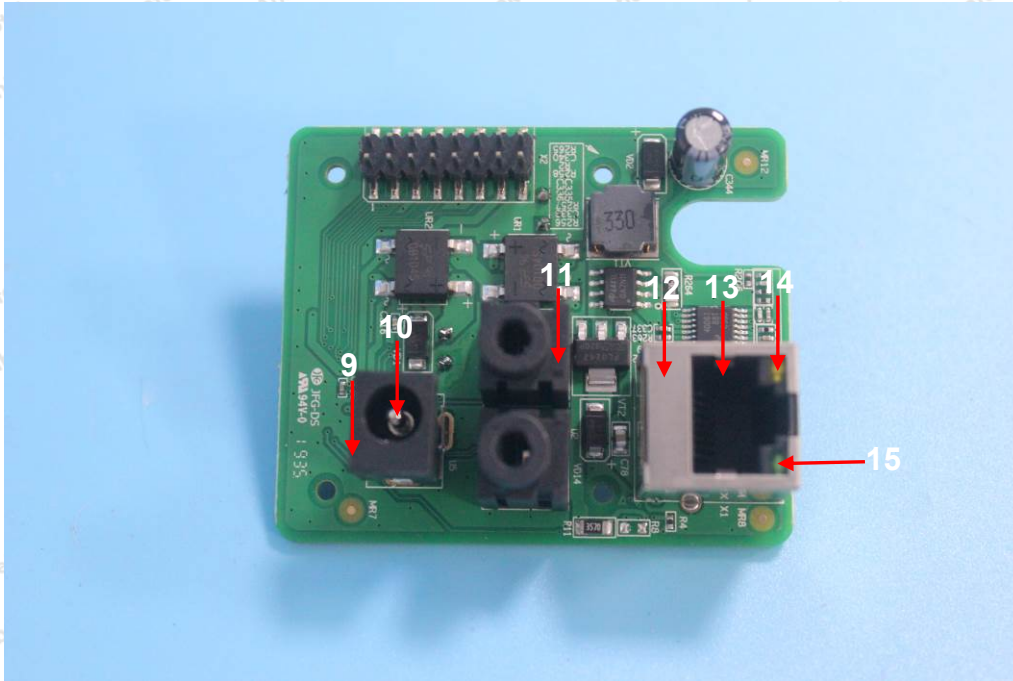


Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 24 of 28

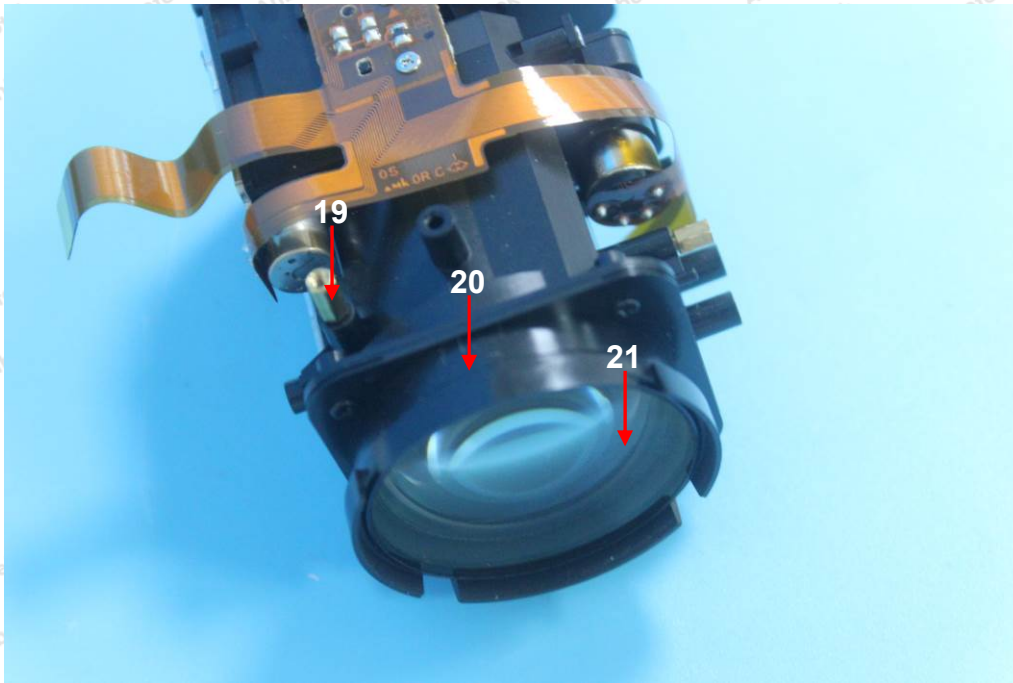


Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 25 of 28

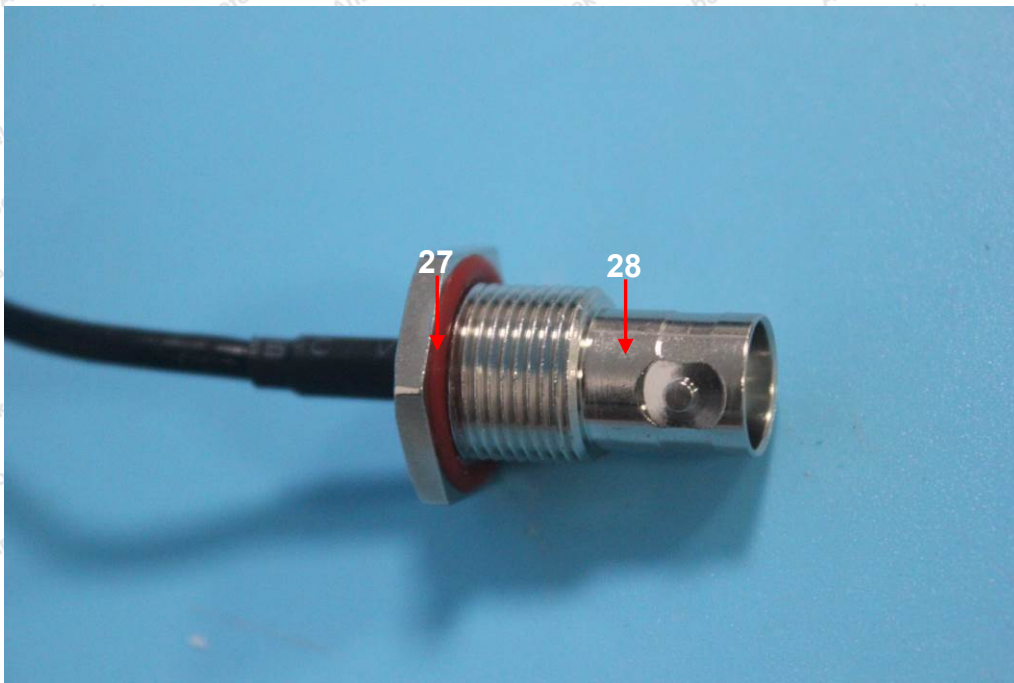
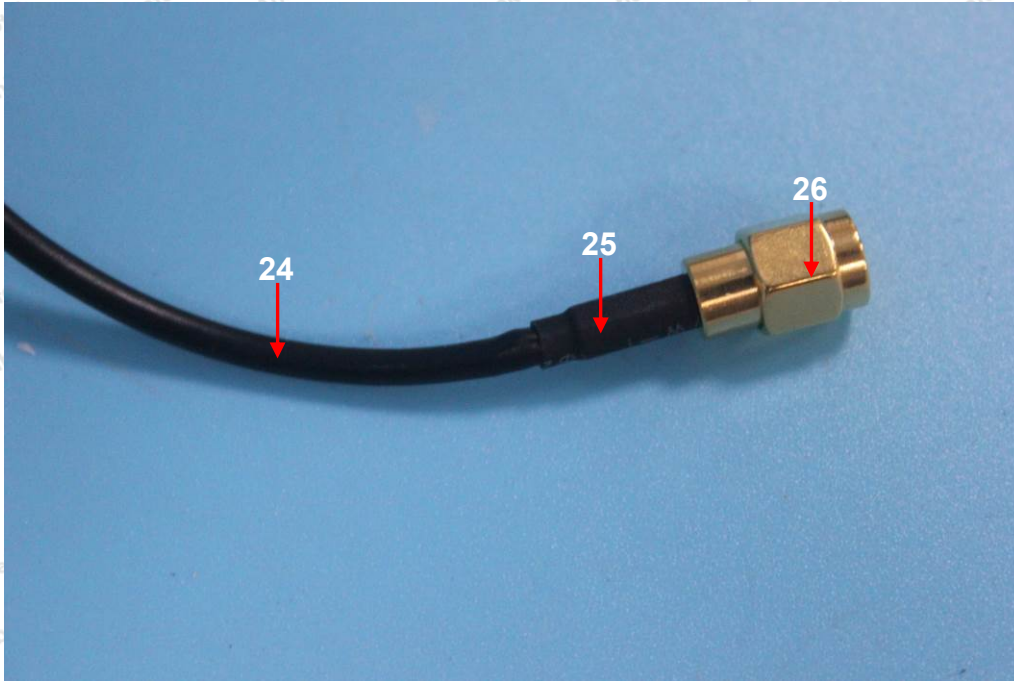


Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 26 of 28

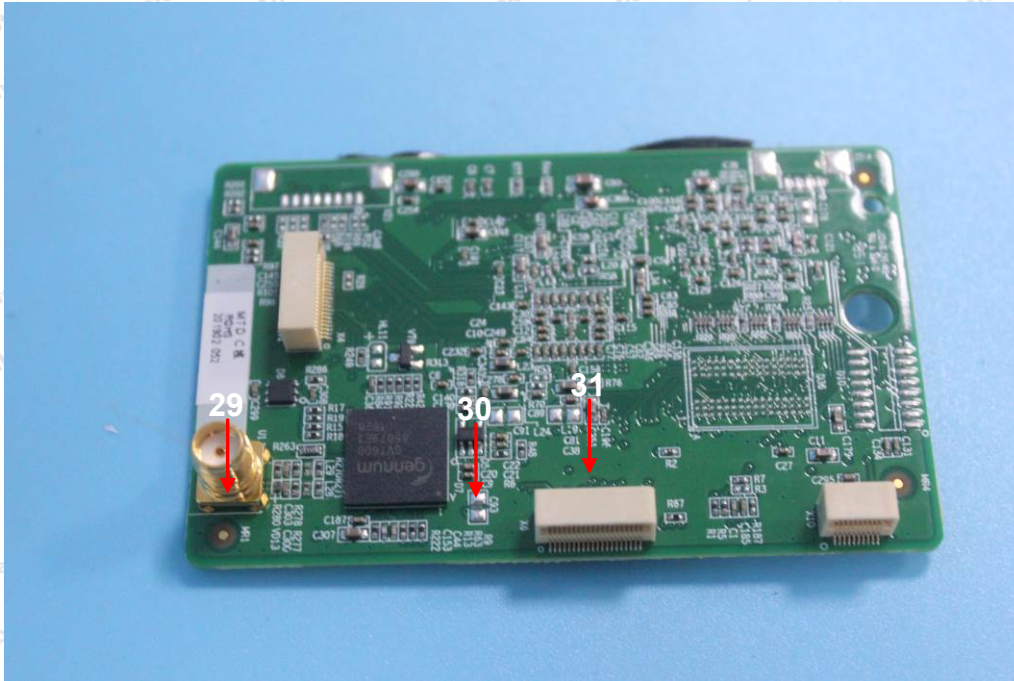


Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 27 of 28

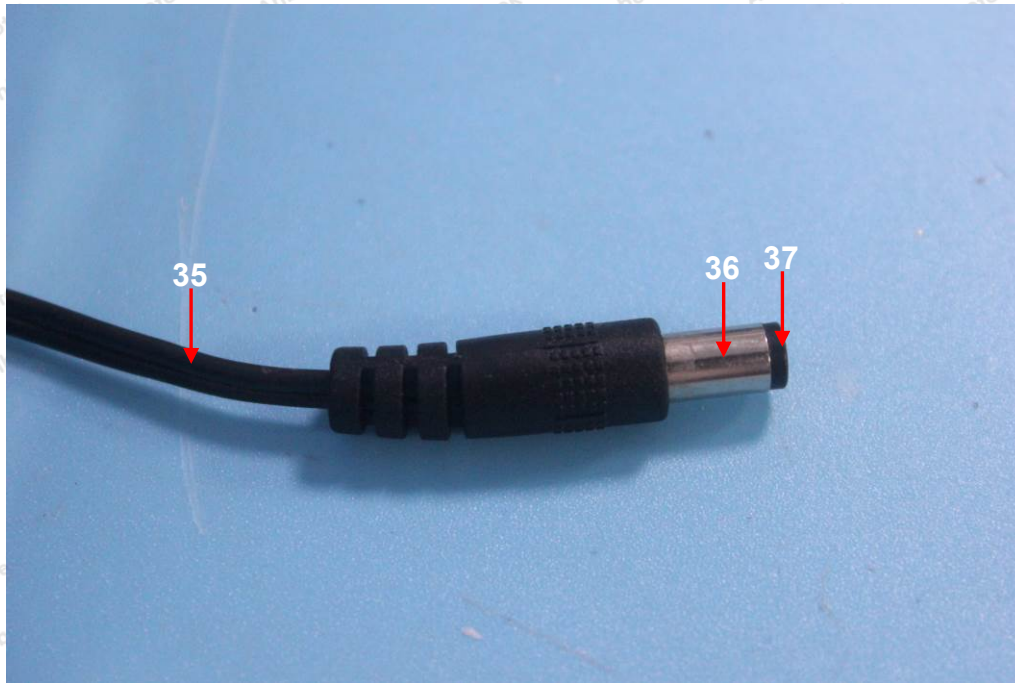


Test Report

Report No.: 18300RC00296001

Date: Aug. 06, 2020

Page 28 of 28



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

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