Test Report No.: 48.400.25.0320.01-01/04
Rev.: 01
Dated: 2025-04-17

Applicant:	Shenzhen Roborock Innovation Technology Co., Ltd.
Address:	Room 1802, Building D1, Nanshan Zhiyuan, No.1001 Xueyuan Avenue, Changyuan community, Taoyuan Street, Nanshan District, Shenzhen, P.R. China
Attn:	Ms.LU
Sample Description:	Cordless Stick Vacuum Cleaner + Auto-Empty Dock, Cordless Stick Vacuum Cleaner
Model No.:	H9A1A+MDS23HRR, H10A1A
Sample Received Date:	2025-02-18 ~ 2025-03-17
Test Period:	2025-03-01 ~ 2025-03-28
Purpose of examination:	Selected Harmful substances test according to client request. 1- PAHs (Polycyclic Aromatic Hydrocarbons) content test according to AfPS GS 2019:01 PAK and REACH Regulation (EC) No.1907/2006 Annex XVII Entry 50.
Test Results:	Refer to following page(s)
Remark:	(1) The results relate only to the items tested. (2) Samples are tested as received. (3) The scope of testing was defined by the customer

TÜV SÜD Certification and Testing (China) Co., Ltd.
TÜV SÜD Group

Prepared by:

Yongfeng Du
Project Handler

Reviewed by:

Feng Zhang
Designated Reviewer

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi, Jiangsu, 214 101, P. R. China
Tel.: +86-510-8820-3737 Fax: +86-510-8820-3636
www.tuv-sud.cn info@tuv-sud.cn

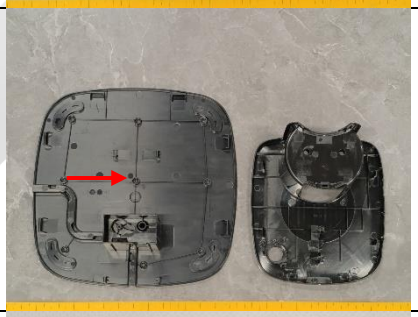
Laboratory: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch Testing Center
No. 1999 Du Hui Rd, Minhang District, Shanghai 201108 P.R. China
Tel.: +86-21-6037-6501

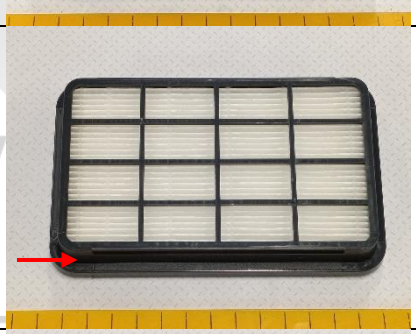
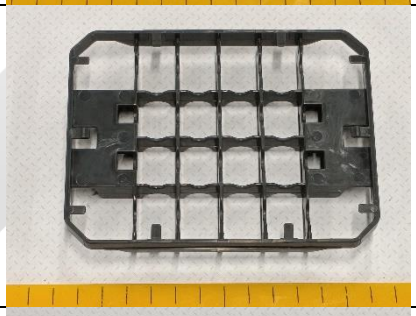
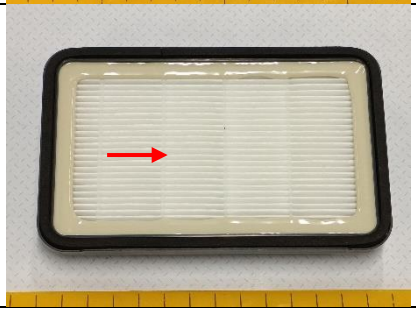
1. SUMMARY OF TEST RESULTS

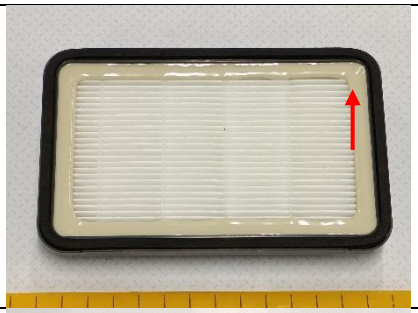
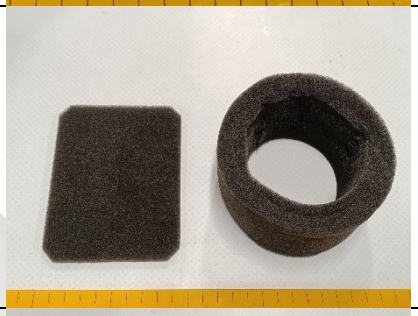
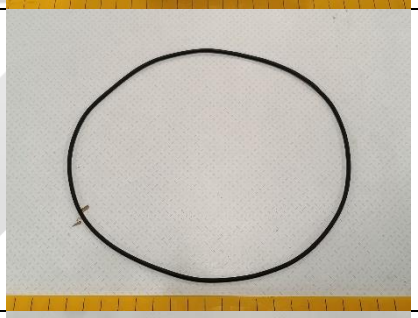
No.	Test Requested	Conclusion	Remarks
1.	Regulated PAHs (Polycyclic Aromatic Hydrocarbons) test according to Regulation (EC) No.1907/2006 Annex XVII Entry 50	**PASS**	/
2.	Regulated Phthalates content test according to Regulation (EC) No.1907/2006 Annex XVII Entry 51 and 52	**PASS**	/
3.	Regulated Organotin compounds content test according to Regulation (EC) No.1907/2006 Annex XVII Entry 20	**PASS**	/
4.	Regulated Pentachlorophenol (PCP) and Tetrachlorophenol (TeCP) content test according to Regulation (EC) No.1907/2006 Annex XVII Entry 22 and Commission Delegated Regulation (EU) 2021/277	**PASS**	/
5.	Regulated AZO dyes content test according to Regulation (EC) No.1907/2006 Annex XVII Entry 43	**PASS**	/
6.	Regulated Dimethylfumarate (DMF) test according to Regulation (EC) No.1907/2006 Annex XVII Entry 61	**PASS**	/
7.	Regulated Nonylphenol (NP) and Nonylphenol ethoxylates (NPEO) content test according to Regulation (EC) No.1907/2006 Annex XVII Entry 46	**PASS**	/

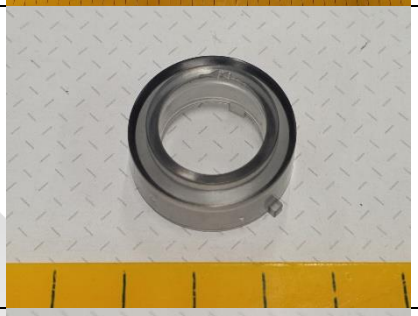
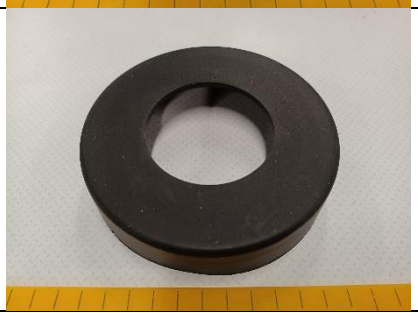
Note:
- The conclusion was drawn according to the client's specification.

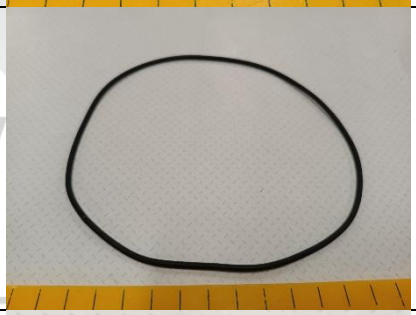
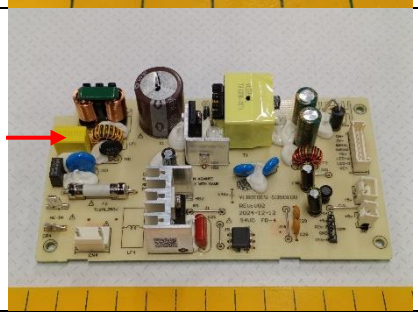
2. TESTED SUBJECT DESCRIPTION

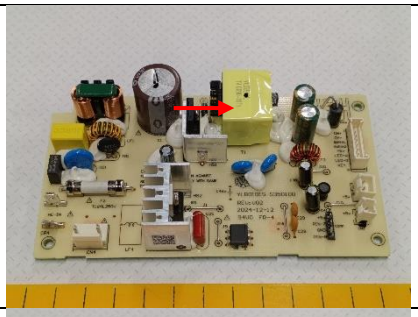
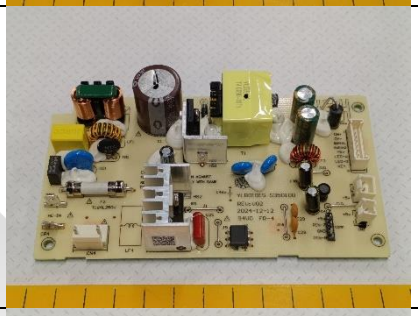
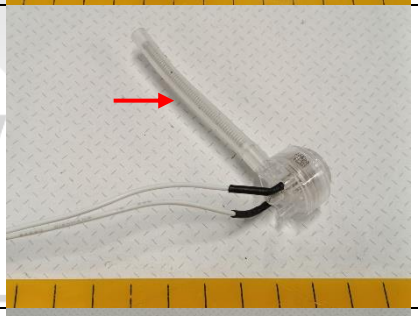
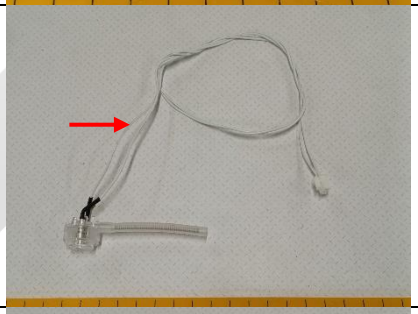
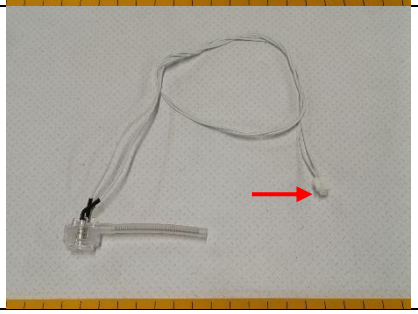
Sample Number	Tested Material Description	Photo
001	White plastic component	
002	Black plastic component	
003	Black plastic component	
004	Black plastic component	
005	Black plastic component	

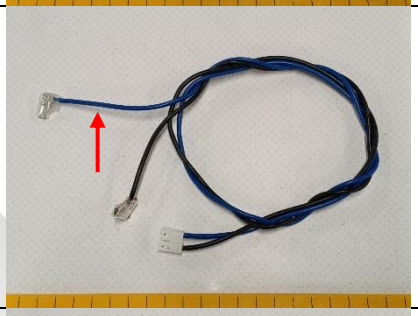
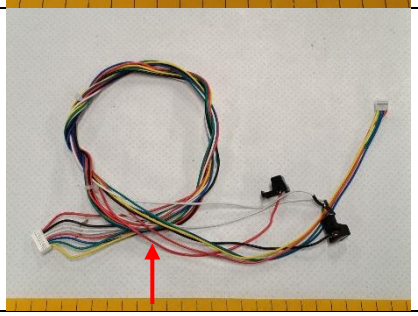
Sample Number	Tested Material Description	Photo
006	Black plastic component	
007	Black plastic component	
008	Black plastic component	
009	Black plastic component	
010	White HEPA	

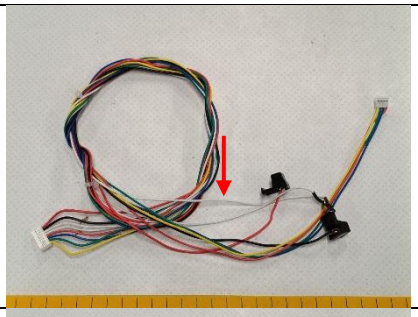
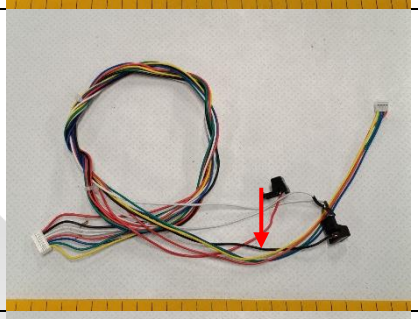
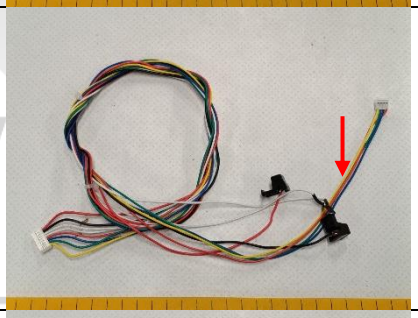
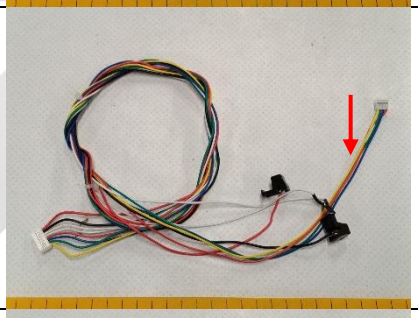
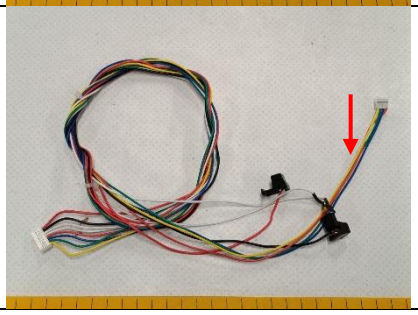
Sample Number	Tested Material Description	Photo
011	White glue	
012	Black sponge	
013	Black sponge	
014	Black polymer washer	
015	White textile bag	

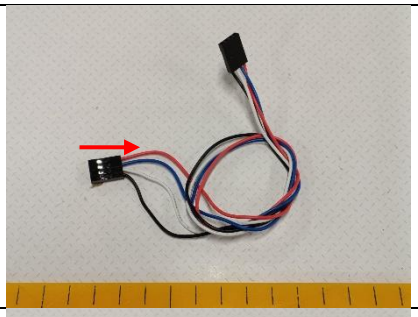
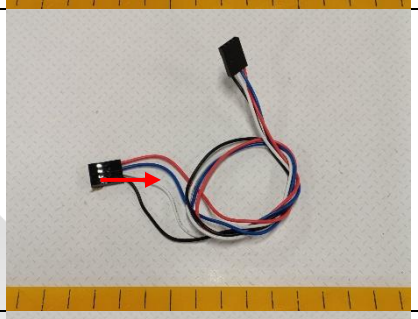
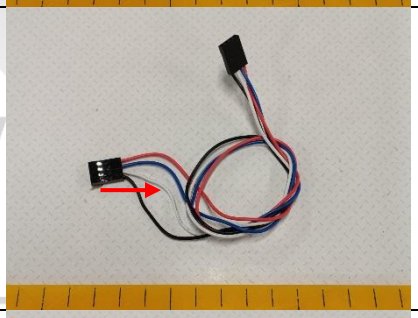
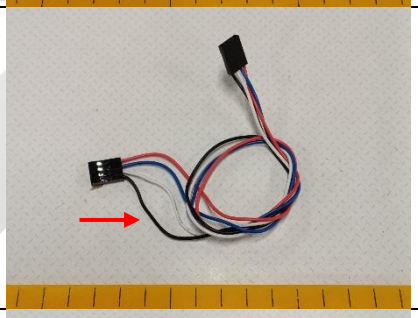
Sample Number	Tested Material Description	Photo
016	Brown paper board	
017	Grey plastic component	
018	Black plastic component	
019	Black polymer component	
020	Black polymer component	

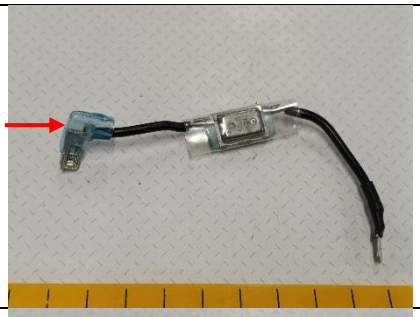
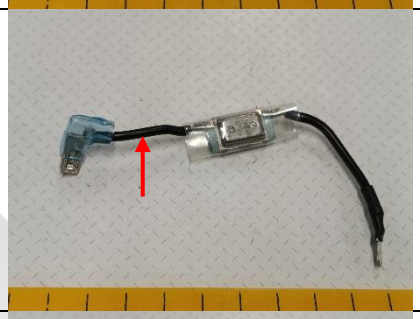
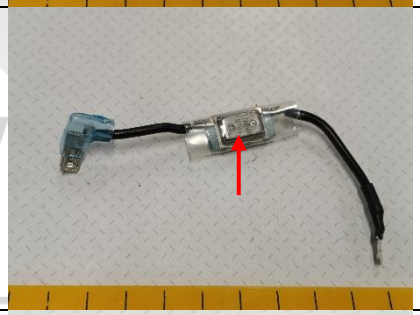
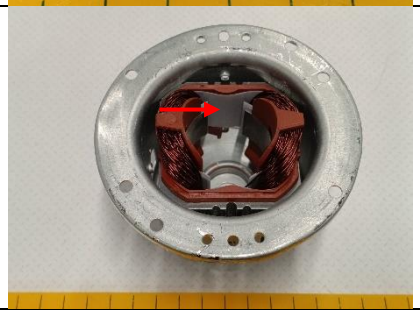
Sample Number	Tested Material Description	Photo
021	Black polymer component	
022	Black polymer component	
023	Black polymer component	
024	Black polymer component	
025	Yellow capacitor body	

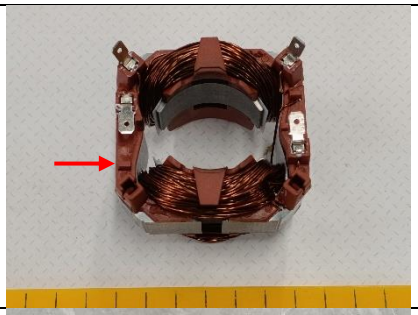
Sample Number	Tested Material Description	Photo
026	Yellow plastic tape	
027	Brown polymer resin of PCB board	
028	Transparent silicon tube	
029	White wire jacket	
030	White plastic socket	

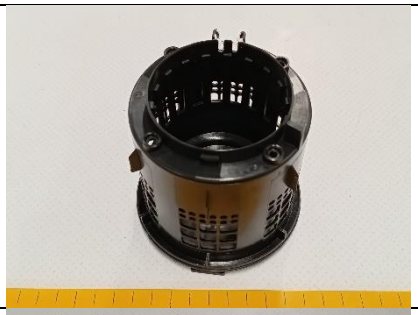
Sample Number	Tested Material Description	Photo
031	Transparent polymer component	
032	Blue wire jacket	
033	Black wire jacket	
034	Black wire jacket	
035	Red wire jacket	

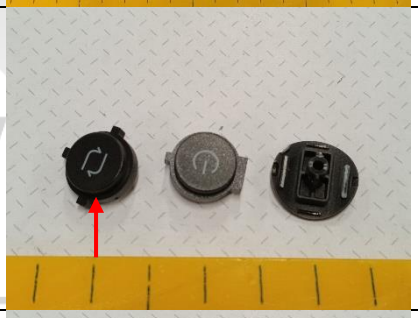
Sample Number	Tested Material Description	Photo
036	White wire jacket	
037	Black wire jacket	
038	Yellow wire jacket	
039	Green wire jacket	
040	Blue wire jacket	

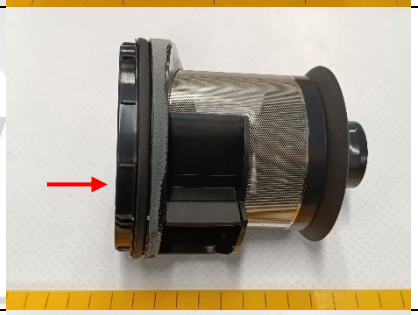
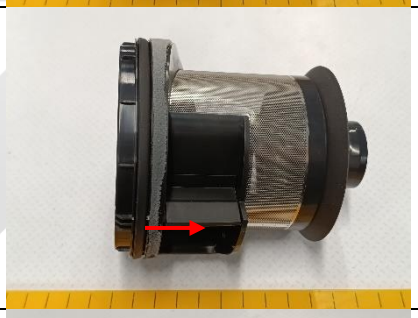
Sample Number	Tested Material Description	Photo
041	Red wire jacket	
042	Blue wire jacket	
043	White wire jacket	
044	Black wire jacket	
045	White plastic component	

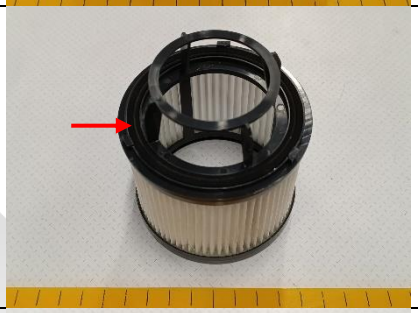
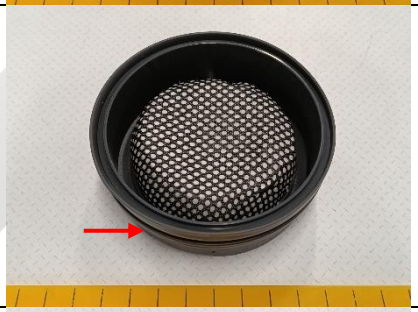
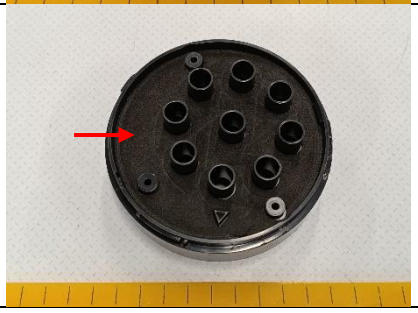
Sample Number	Tested Material Description	Photo
046	Blue silicon jacket	
047	Black wire jacket	
048	Transparent polymer jacket	
049	Black plastic component	
050	White polymer insulation films	

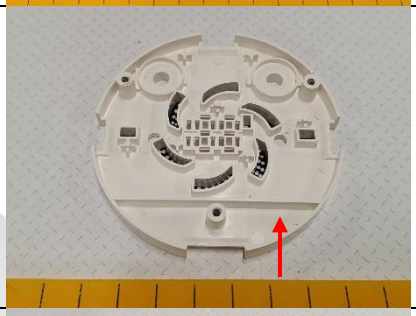
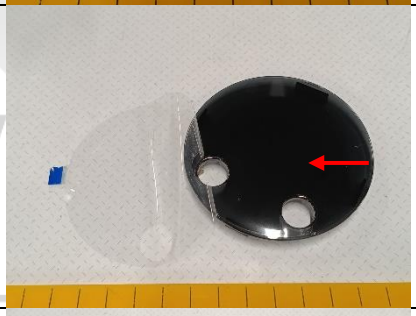
Sample Number	Tested Material Description	Photo
051	Red plastic component	
052	Black plastic component	
053	Black plastic component	
054	Black plastic component	
055	Black plastic component	

Sample Number	Tested Material Description	Photo
056	Black plastic component	
057	Black plastic component	
058	Black plastic component	
059	Black plastic component	
060	Black plastic component	

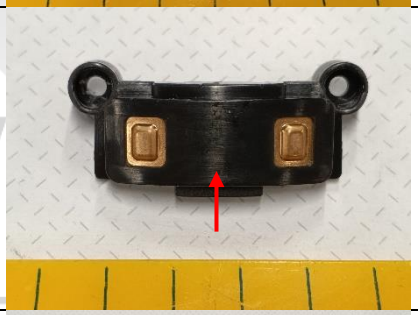
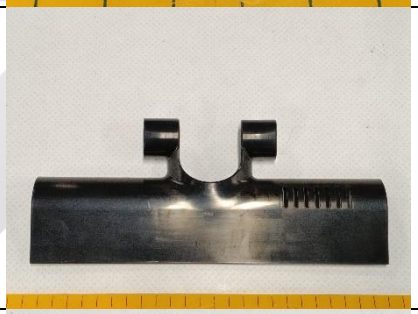
Sample Number	Tested Material Description	Photo
061	Black plastic component	
062	Black polymer component	
063	Black plastic component	
064	Black plastic component	
065	Grey plastic component	

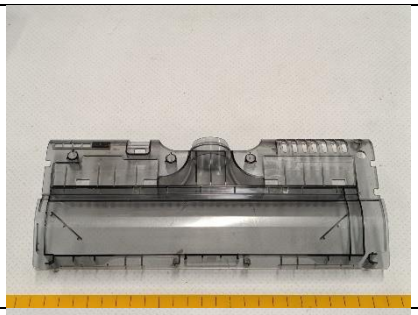
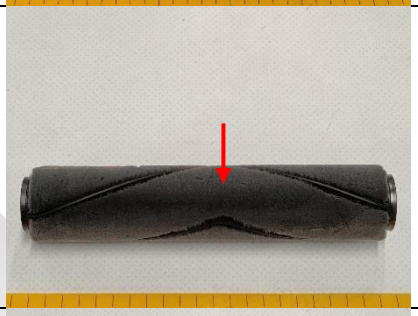
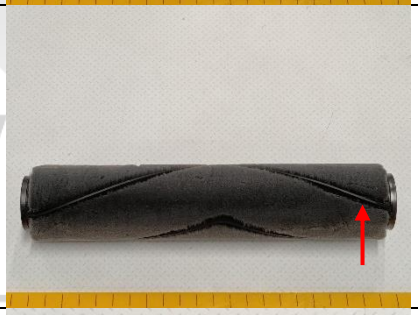
Sample Number	Tested Material Description	Photo
066	Black sponge	
067	Semi-transparent grey plastic component	
068	Black plastic component	
069	Black plastic component	
070	Black polymer washer	

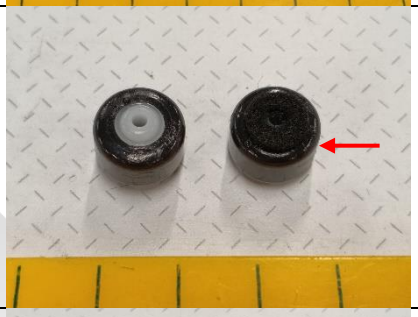
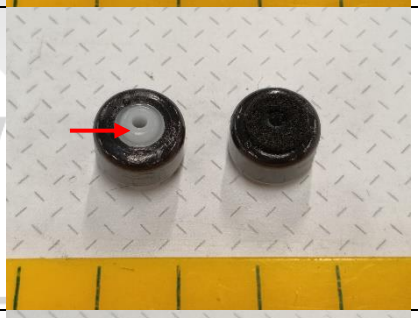
Sample Number	Tested Material Description	Photo
071	White HEPA	
072	Black plastic component	
073	Black cotton jacket	
074	Black polymer component	
075	Black polymer fin	

Sample Number	Tested Material Description	Photo
076	Black plastic component	
077	White plastic component	
078	Black plastic component	
079	Black plastic component	
080	Semi-transparent grey plastic component	

Sample Number	Tested Material Description	Photo
081	Black plastic component	
082	Black plastic component	
083	Black brush bristle	
084	Black plastic component	
085	Black plastic component	

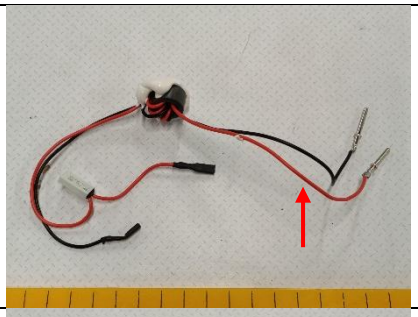
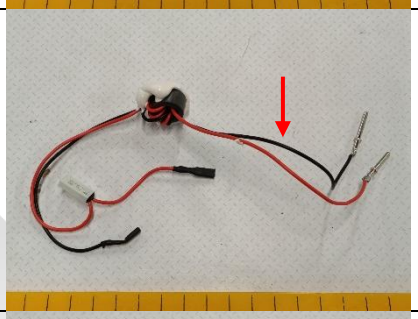
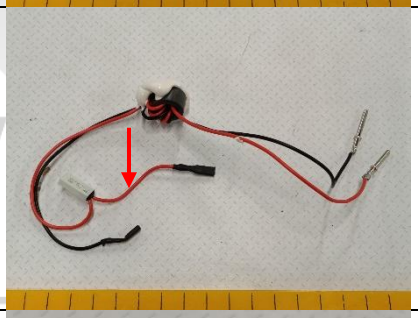
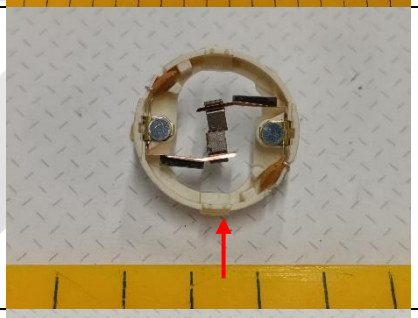
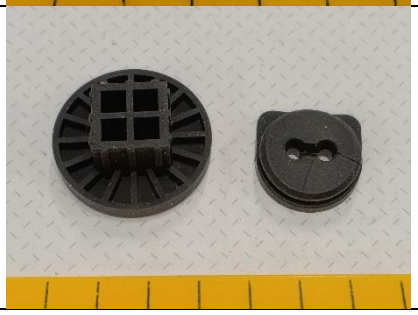
Sample Number	Tested Material Description	Photo
086	Black plastic component	
087	Black plastic component	
088	Black plastic component	
089	Black plastic component	
090	Black plastic component	

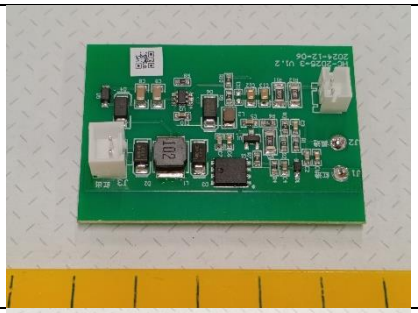
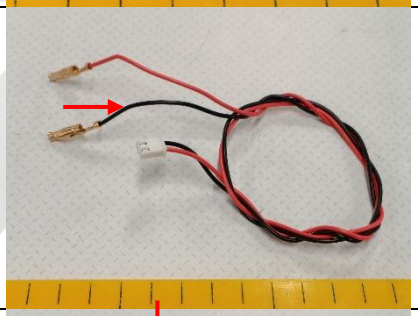
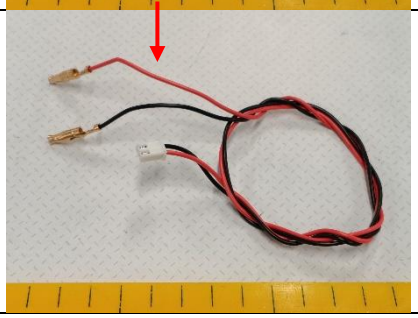
Sample Number	Tested Material Description	Photo
091	Transparent grey plastic component	
092	Grey brush bristle	
093	Black polymer scrap piece	
094	Black plastic component	
095	Black plastic component	

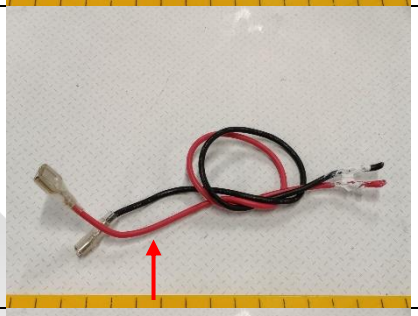
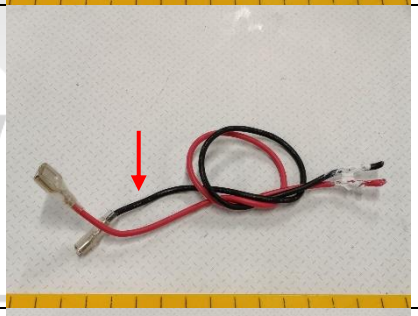
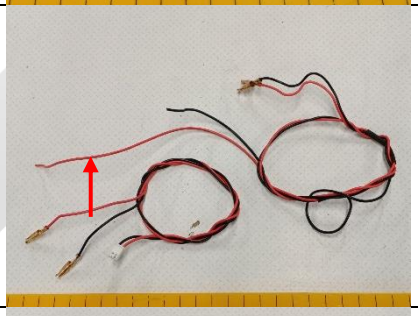
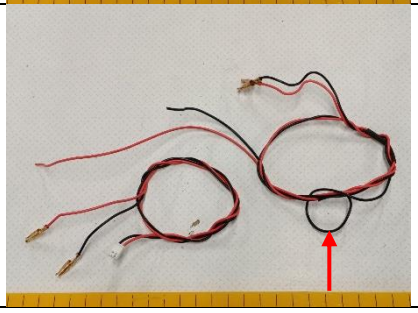
Sample Number	Tested Material Description	Photo
096	Black plastic component	
097	Black wheel jacket	
098	White plastic component	
099	Black plastic component	
100	Black polymer tube	

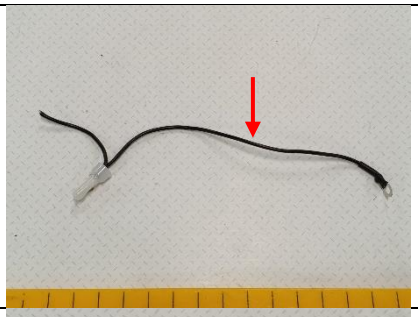
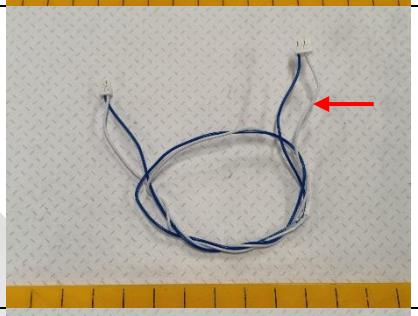
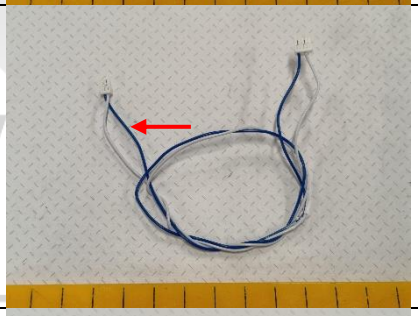
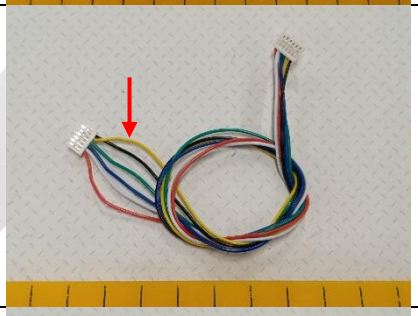
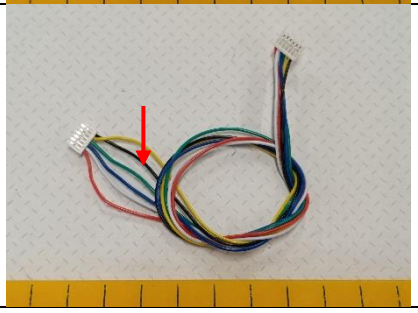
Sample Number	Tested Material Description	Photo
101	Semi-transparent black plastic component	
102	Black plastic component	
103	Black rubber belt	
104	Black plastic component	
105	Black plastic component	

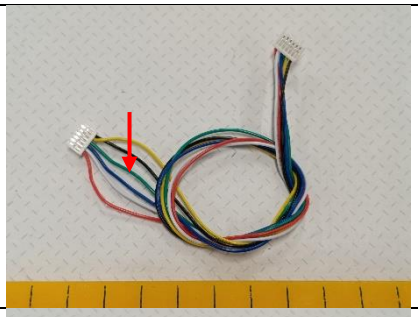
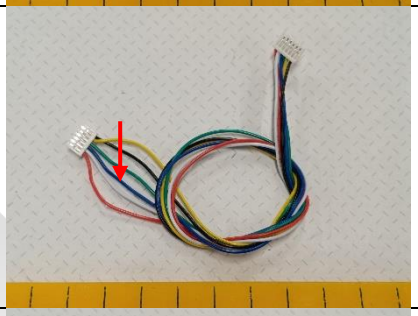
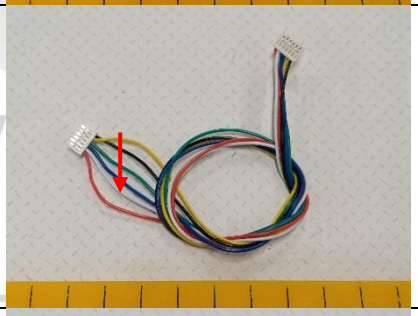
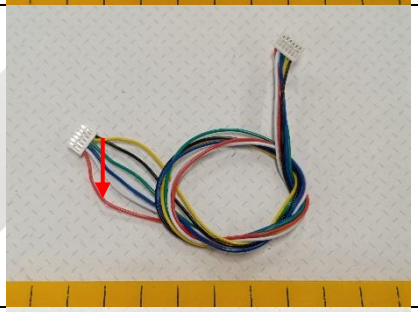
Sample Number	Tested Material Description	Photo
106	Black plastic component	
107	Black polymer scrap bar	
108	Black plastic component	
109	Black plastic component	
110	White plastic component	

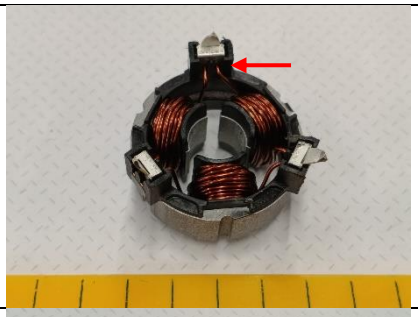
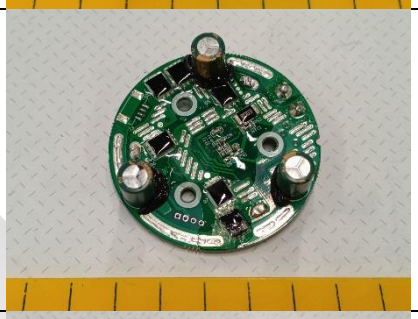
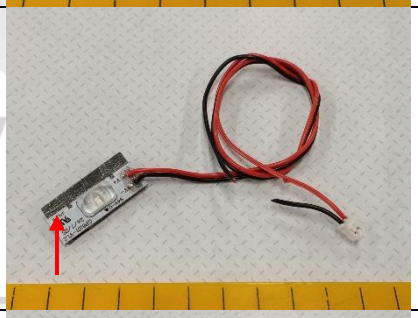
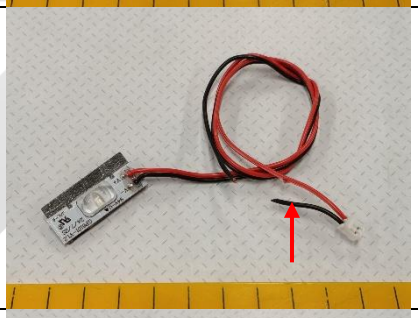
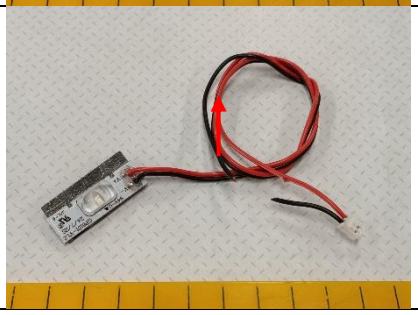
Sample Number	Tested Material Description	Photo
111	Red wire jacket	
112	Black wire jacket	
113	Red wire jacket	
114	White plastic component	
115	Black polymer component	

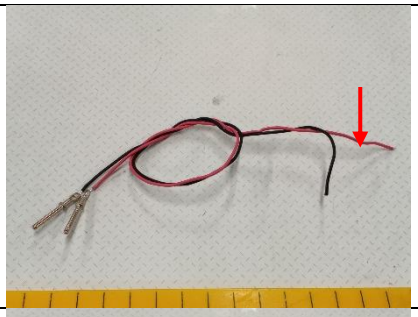
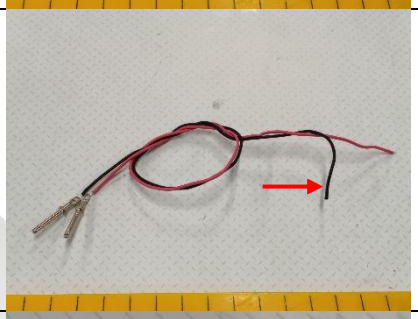
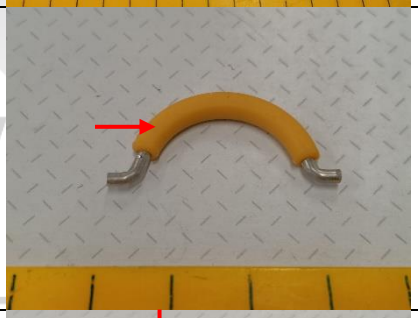
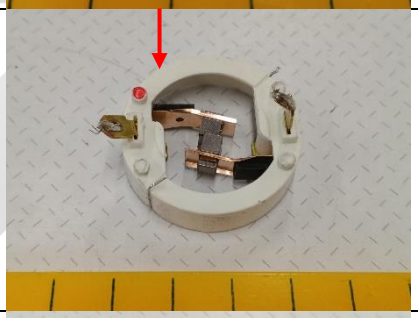
Sample Number	Tested Material Description	Photo
116	Green polymer resin of PCB	
117	Black polymer resin of PCB	
118	Green polymer resin of PCB	
119	Black wire jacket	
120	Red wire jacket	

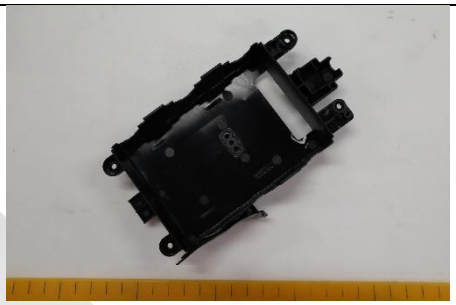
Sample Number	Tested Material Description	Photo
121	Transparent polymer jacket	
122	Red wire jacket	
123	Black wire jacket	
124	Red wire jacket	
125	Black wire jacket	

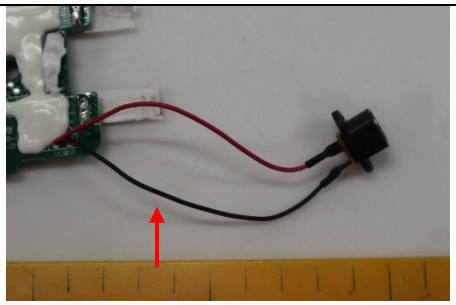
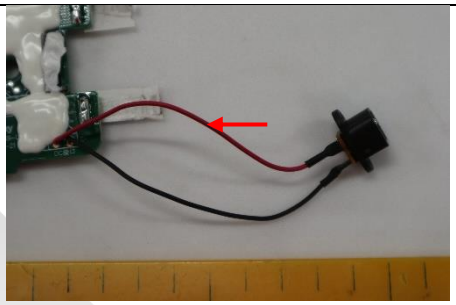
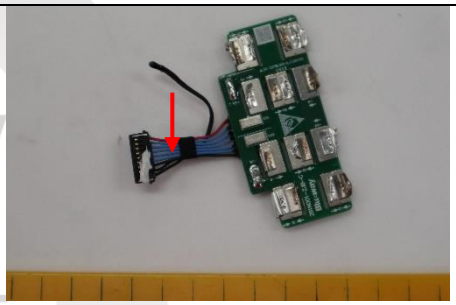
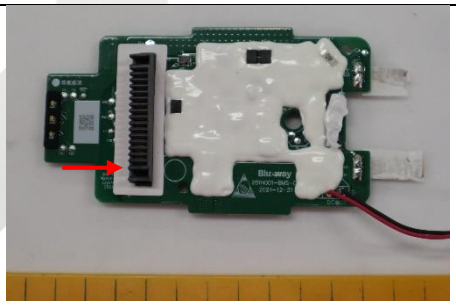
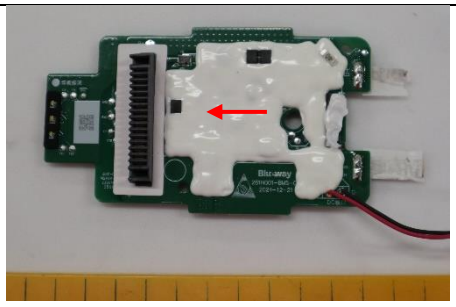
Sample Number	Tested Material Description	Photo
126	Black wire jacket	
127	White wire jacket	
128	Blue wire jacket	
129	Yellow wire jacket	
130	Black wire jacket	

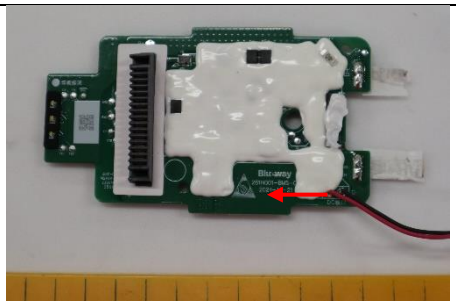
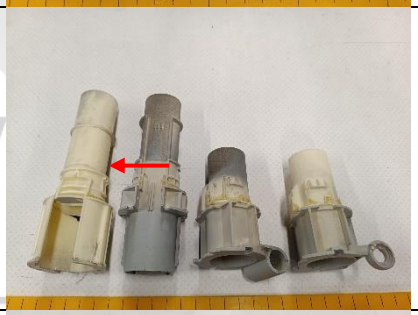
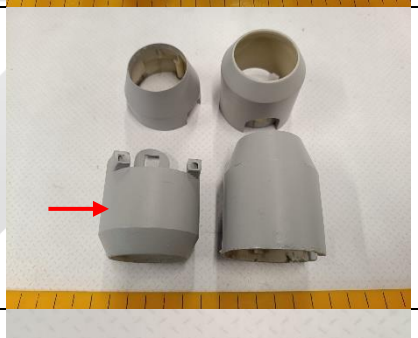
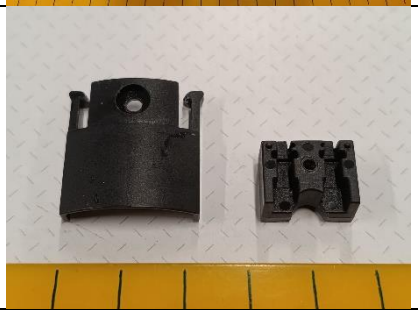
Sample Number	Tested Material Description	Photo
131	Green wire jacket	
132	Blue wire jacket	
133	Black wire jacket	
134	Red wire jacket	
135	Black plastic component	

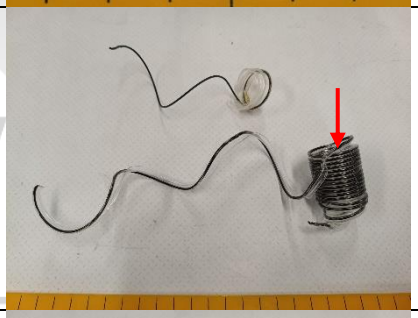
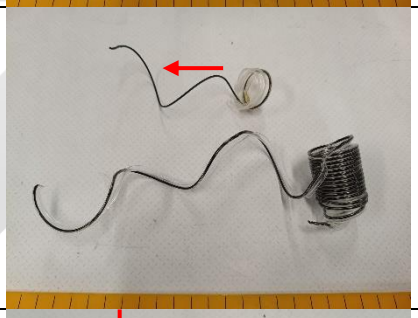
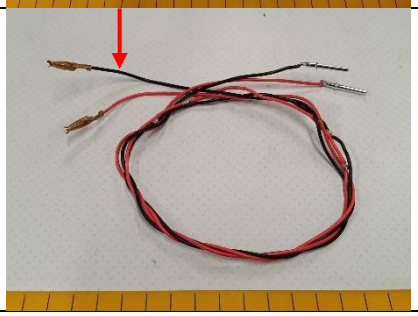
Sample Number	Tested Material Description	Photo
136	Black plastic component	
137	Green polymer resin of PCB	
138	White PCB board	
139	Black wire jacket	
140	Red wire jacket	

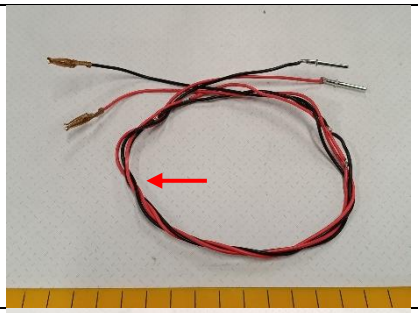
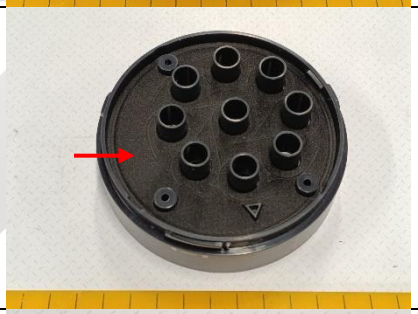
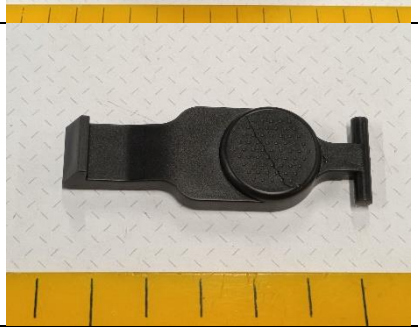
Sample Number	Tested Material Description	Photo
141	Red wire jacket	
142	Black wire jacket	
143	Yellow plastic jacket	
144	White plastic frame	
145	Black rubber belt	

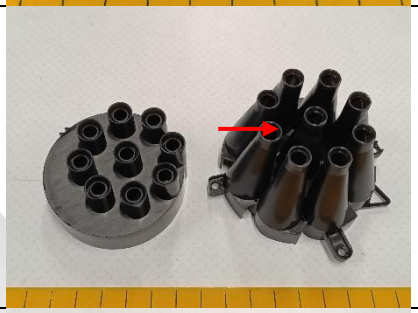
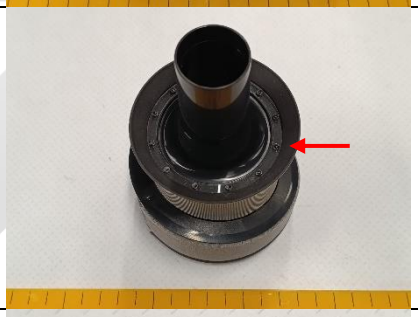
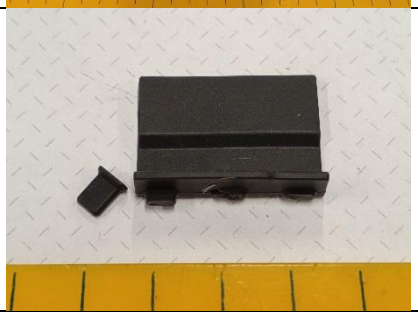
Sample Number	Tested Material Description	Photo
146	Black plastic shell	
147	Black plastic frame	
148	Black polymer block	
149	Black polymer tape	
150	Black plastic tape	

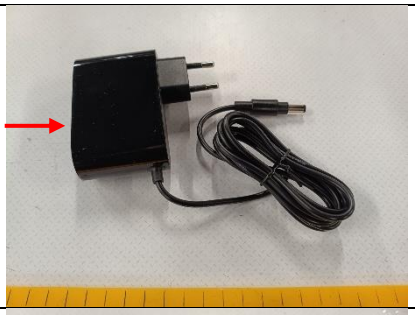
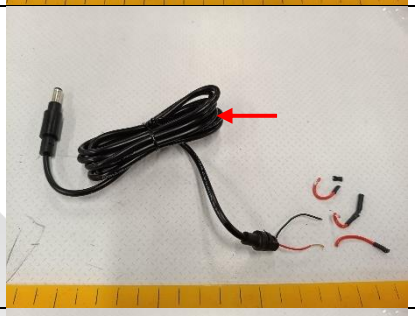
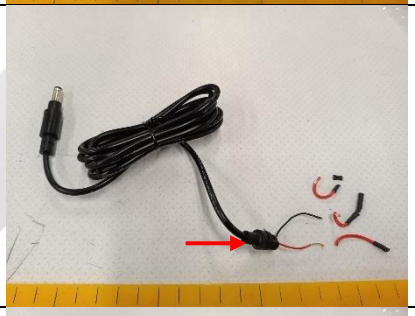
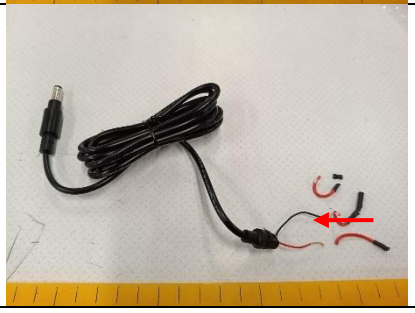
Sample Number	Tested Material Description	Photo
151	Black wire jacket	
152	Red wire jacket	
153	Blue wire jacket	
154	Black rigid plastic socket	
155	White glue	

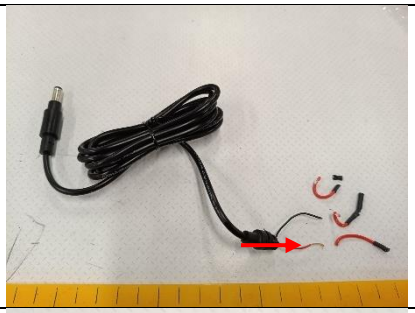
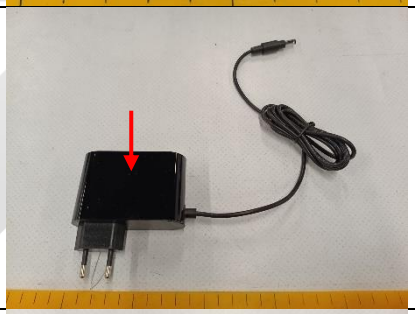
Sample Number	Tested Material Description	Photo
156	Green polymer resin of PCB	
157	Black plastic tube	
158	Beige plastic piece	
159	Grey polymer painting	
160	Black plastic piece	

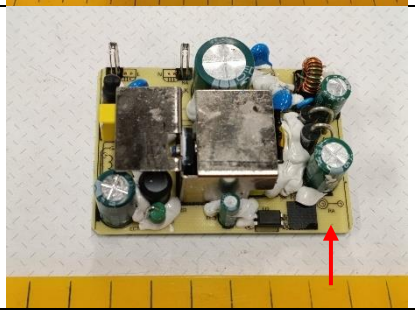
Sample Number	Tested Material Description	Photo
161	Black plastic component	
162	Grey plastic piece	
163	Transparent polymer jacket	
164	Black cord jacket	
165	Black wire jacket	

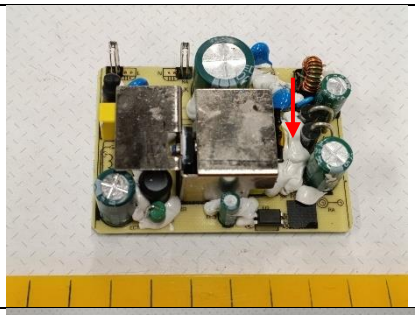
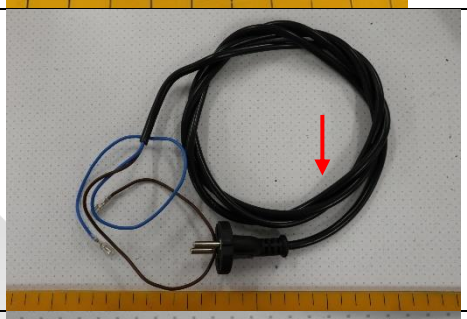
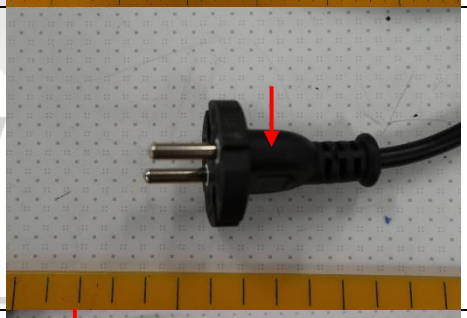
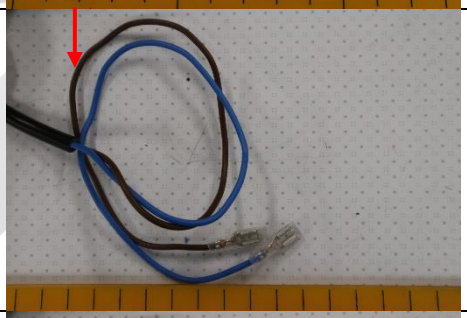
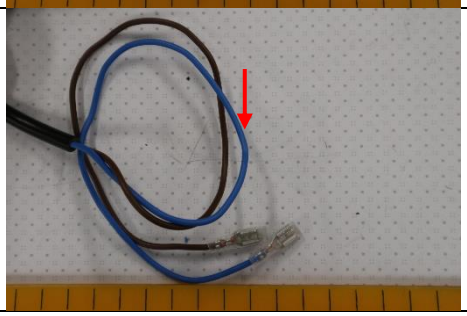
Sample Number	Tested Material Description	Photo
166	Red wire jacket	
167	Transparent black plastic dust bin	
168	Black plastic piece	
169	Black sponge	
170	Black plastic button	

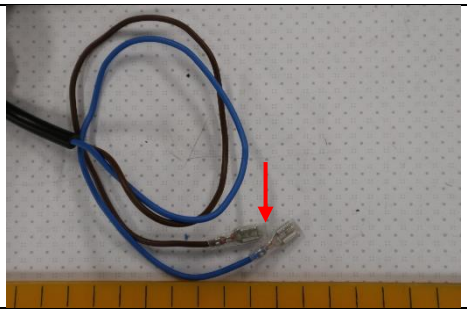
Sample Number	Tested Material Description	Photo
171	Black plastic component	
172	Black plastic core	
173	Grey polymer filler	
174	Black polymer washer	
175	Black rubber piece	

Sample Number	Tested Material Description	Photo
176	Black plastic shell	
177	Black PVC wire jacket	
178	Black plug jacket	
179	Black wire holder jacket	
180	Black wire jacket	

Sample Number	Tested Material Description	Photo
181	Red wire jacket	
182	Brown polymer resin of PCB	
183	White glue	
184	Black plastic shell	
185	Black PVC wire jacket	

Sample Number	Tested Material Description	Photo
186	Black plug jacket	
187	Black wire holder jacket	
188	Black wire jacket	
189	Red wire jacket	
190	Brown polymer resin of PCB	

Sample Number	Tested Material Description	Photo
191	White glue	
192	Black PVC cord jacket	
193	Black PVC plug jacket	
194	Brown wire jacket	
195	Blue wire jacket	

Sample Number	Tested Material Description	Photo
196	Transparent socket jacket	

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				001+002+003
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				004+005+006
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				007+008+010
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				011+015+016
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				017+018+022
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				052+053+054
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				055+057+058
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				060+061+066
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				067+068+069
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				070+071+072
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				073+074+075
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				076+078+080
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				083+084+085
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				086+087+089
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				090+091+092
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				093+095+096
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				097+099+100
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				101+102+105
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				106+107+143
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				146+148+157
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				158+159+161
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				162+167+168
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				169+170+171
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				172+173+174
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				175+176+177
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				178+179+184
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

3. TEST RESULT(S)

3.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) CONTENT TEST

Test method: With reference to AfPS GS 2019:01 PAK, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 0.1 mg/kg]

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				185+186+187
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Parameter	Cas No.	MDL [mg/kg]	Limit [Category I]	Result [mg/kg]
				192+193
Benzo[a]pyrene	50-32-8	0.1	<1	N.D.
Benzo[e]pyrene	192-97-2	0.1	<1	N.D.
Benzo[a]anthracene	56-55-3	0.1	<1	N.D.
Chrysene	218-01-9	0.1	<1	N.D.
Benzo[b]fluoranthene	205-99-2	0.1	<1	N.D.
Benzo[j]fluoranthene	205-82-3	0.1	<1	N.D.
Benzo[k]fluoranthene	207-08-9	0.1	<1	N.D.
Dibenzo[a,h]anthracene	53-70-3	0.1	<1	N.D.

Remark:
1. MDL = Method Detection Limit.
2. N.D. =Not Detected (<MDL).
3. “mg/kg” denotes milligram per kilogram.

Limit for regulated 8 PAHs according as (EU) No.1272/2013 (REACH Annex VXII, item50)

Parameter	Unit	Category I	Category II
		Such articles include amongst other: 1. Sport equipment such as bicycles, golf clubs, racquets 2. House-hold utensils, trolleys, walking frames 3. Tools for domestic use 4. Clothing, footwear, gloves and sportwear 5. Watch-straps, wrist-bands, masks, head-bands	Toys, including activity toys, and childcare articles
Benzo[a]pyrene	mg/kg	1	0.5
Benzo[e]pyrene	mg/kg	1	0.5
Benzo[a]anthracene	mg/kg	1	0.5
Benzo[b]fluoranthene	mg/kg	1	0.5
Benzo[j]fluoranthene	mg/kg	1	0.5
Benzo[k]fluoranthene	mg/kg	1	0.5
Chrysene	mg/kg	1	0.5
Dibenzo[a,h]anthracene	mg/kg	1	0.5

3. TEST RESULT(S)

3.2 PHTHALATES CONTENT TEST

Test method: In house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

Sample No.	RESULT [%]			
	DEHP	DBP	BBP	DIBP
001+002+003	<0.005	<0.005	<0.005	<0.005
004+005+006	<0.005	<0.005	<0.005	<0.005
007+008+009	<0.005	<0.005	<0.005	<0.005
010+011+012	<0.005	<0.005	<0.005	<0.005
013+014+015	0.009	<0.005	<0.005	<0.005
016+017+018	<0.005	<0.005	<0.005	<0.005
019+020+021	<0.005	<0.005	<0.005	<0.005
022+023+024	<0.005	<0.005	<0.005	<0.005
025+026+027	<0.005	<0.005	<0.005	<0.005
028+029+030	<0.005	<0.005	<0.005	<0.005
031+032+033	<0.005	<0.005	<0.005	<0.005
034+035+036	<0.005	<0.005	<0.005	<0.005
037+038+039	<0.005	<0.005	<0.005	<0.005
040+041+042	<0.005	<0.005	<0.005	<0.005
043+044+045	0.014	<0.005	<0.005	<0.005
046+047+048	<0.005	<0.005	<0.005	<0.005
049+050+051	<0.005	<0.005	<0.005	<0.005
052+053+054	<0.005	<0.005	<0.005	<0.005
055+056+057	<0.005	<0.005	<0.005	<0.005
058+059+060	<0.005	<0.005	<0.005	<0.005
061+062+063	<0.005	<0.005	<0.005	<0.005
064+065+066	<0.005	<0.005	<0.005	<0.005
067+068+069	<0.005	<0.005	<0.005	<0.005
070+071+072	<0.005	<0.005	<0.005	<0.005
073+074+075	<0.005	<0.005	<0.005	<0.005
076+077+078	<0.005	<0.005	<0.005	<0.005
079+080+081	<0.005	<0.005	<0.005	<0.005

Sample No.	RESULT [%]			
	DEHP	DBP	BBP	DIBP
082+083+084	<0.005	<0.005	<0.005	<0.005
085+086+087	<0.005	<0.005	<0.005	<0.005
088+089+090	<0.005	<0.005	<0.005	<0.005
091+092+093	<0.005	<0.005	<0.005	<0.005
094+095+096	<0.005	<0.005	<0.005	<0.005
097+098+099	<0.005	<0.005	<0.005	<0.005
100+101+102	<0.005	<0.005	<0.005	<0.005
103+104+105	<0.005	<0.005	<0.005	<0.005
106+107+108	<0.005	<0.005	<0.005	<0.005
109+110+111	0.011	<0.005	<0.005	<0.005
112+113+114	<0.005	<0.005	<0.005	<0.005
115+116+117	<0.005	<0.005	<0.005	<0.005
118+119+120	<0.005	<0.005	<0.005	<0.005
121+122+123	<0.005	<0.005	<0.005	<0.005
124+125+126	<0.005	<0.005	<0.005	<0.005
127+128+129	<0.005	<0.005	<0.005	<0.005
130+131+132	<0.005	<0.005	<0.005	<0.005
133+134+135	<0.005	<0.005	<0.005	<0.005
136+137+138	<0.005	<0.005	<0.005	<0.005
139+140+141	<0.005	<0.005	<0.005	<0.005
142+143+144	<0.005	<0.005	<0.005	<0.005
145+146+147	<0.005	<0.005	<0.005	<0.005
148+149+150	<0.005	<0.005	<0.005	<0.005
151+152+153	<0.005	<0.005	<0.005	<0.005
154+155+156	<0.005	<0.005	<0.005	<0.005
157+158+159	<0.005	<0.005	<0.005	<0.005
160+161+162	<0.005	<0.005	<0.005	<0.005
163+164+165	<0.005	<0.005	<0.005	<0.005
166+167+168	<0.005	<0.005	<0.005	<0.005
169+170+171	<0.005	<0.005	<0.005	<0.005
172+173+174	<0.005	<0.005	<0.005	<0.005

Sample No.	RESULT [%]			
	DEHP	DBP	BBP	DIBP
175	0.008	<0.005	<0.005	<0.005
176+177+178	<0.005	<0.005	<0.005	<0.005
179+180+181	<0.005	<0.005	<0.005	<0.005
182+183	<0.005	<0.005	<0.005	<0.005
184+185+186	<0.005	<0.005	<0.005	<0.005
187+188+189	<0.005	<0.005	<0.005	<0.005
190+191	<0.005	<0.005	<0.005	<0.005
192+193	0.007	<0.005	<0.005	<0.005
194+195+196	0.006	<0.005	<0.005	<0.005

Remark:
1. "%" denotes percent by weight
2. "<" denotes less than
3. Di-(2-ethyl-hexyl)phthalate, DEHP, CAS No. 117-81-7;
   Di-n-butyl phthalate, DBP, CAS No. 84-74-2;
   Butyl-benzyl phthalate, BBP, CAS No. 85-68-7;
   Di-iso-butyl Phthalate, DIBP, CAS No. 84-69-5
4. The specification was quoted from regulation (EC) 1907/2006 (REACH) Annex XVII Entry 51, regulated permissible Limit : Sum of DEHP, DBP, BBP and DIBP < 0.1%.

3. TEST RESULT(S)

3.3 ORGANOTIN COMPOUNDS CONTENT TEST (CN)

Test method: With reference to ISO 22744-1: 2020, extracted by organic solvent, followed by derivatization and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 25 mg/kg]

Test Item	Result [mg/kg]		Limit [mg/kg]
	001+002+003	004+005+006	
Dibutyltin, DBT	N.D.	N.D.	1000
Tributyltin, TBT	N.D.	N.D.	1000
Triphenyltin, TPhT	N.D.	N.D.	1000
Tricyclonhexytin, TcyT	N.D.	N.D.	1000
Tripropyltin, TPT	N.D.	N.D.	1000
Dioctyltin, DOT	N.D.	N.D.	1000

Test Item	Result [mg/kg]		Limit [mg/kg]
	007+008+009	010+011+012	
Dibutyltin, DBT	N.D.	N.D.	1000
Tributyltin, TBT	N.D.	N.D.	1000
Triphenyltin, TPhT	N.D.	N.D.	1000
Tricyclonhexytin, TcyT	N.D.	N.D.	1000
Tripropyltin, TPT	N.D.	N.D.	1000
Dioctyltin, DOT	N.D.	N.D.	1000

Test Item	Result [mg/kg]		Limit [mg/kg]
	017+018+019	020+021+022	
Dibutyltin, DBT	N.D.	N.D.	1000
Tributyltin, TBT	N.D.	N.D.	1000
Triphenyltin, TPhT	N.D.	N.D.	1000
Tricyclonhexytin, TcyT	N.D.	N.D.	1000
Tripropyltin, TPT	N.D.	N.D.	1000
Dioctyltin, DOT	N.D.	N.D.	1000

3. TEST RESULT(S)

3.3 ORGANOTIN COMPOUNDS CONTENT TEST (CN)

Test method: With reference to ISO 22744-1: 2020, extracted by organic solvent, followed by derivatization and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 25 mg/kg]

Test Item	Result [mg/kg]		Limit [mg/kg]
	023+024+052	053+054+055	
Dibutyltin, DBT	N.D.	N.D.	1000
Tributyltin, TBT	N.D.	N.D.	1000
Triphenyltin, TPhT	N.D.	N.D.	1000
Tricyclonhexytin, TcyT	N.D.	N.D.	1000
Tripropyltin, TPT	N.D.	N.D.	1000
Dioctyltin, DOT	N.D.	N.D.	1000

Test Item	Result [mg/kg]		Limit [mg/kg]
	056+057+058	059+060+091	
Dibutyltin, DBT	N.D.	N.D.	1000
Tributyltin, TBT	N.D.	N.D.	1000
Triphenyltin, TPhT	N.D.	N.D.	1000
Tricyclonhexytin, TcyT	N.D.	N.D.	1000
Tripropyltin, TPT	N.D.	N.D.	1000
Dioctyltin, DOT	N.D.	N.D.	1000

Test Item	Result [mg/kg]		Limit [mg/kg]
	092+093+100	101+102+146	
Dibutyltin, DBT	N.D.	N.D.	1000
Tributyltin, TBT	N.D.	N.D.	1000
Triphenyltin, TPhT	N.D.	N.D.	1000
Tricyclonhexytin, TcyT	N.D.	N.D.	1000
Tripropyltin, TPT	N.D.	N.D.	1000
Dioctyltin, DOT	N.D.	N.D.	1000

3. TEST RESULT(S)

3.3 ORGANOTIN COMPOUNDS CONTENT TEST (CN)

Test method: With reference to ISO 22744-1: 2020, extracted by organic solvent, followed by derivatization and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 25 mg/kg]

Test Item	Result [mg/kg]		Limit [mg/kg]
	155+157+158	159+167	
Dibutyltin, DBT	N.D.	N.D.	1000
Tributyltin, TBT	N.D.	N.D.	1000
Triphenyltin, TPhT	N.D.	N.D.	1000
Tricyclonhexytin, TcyT	N.D.	N.D.	1000
Tripropyltin, TPT	N.D.	N.D.	1000
Dioctyltin, DOT	N.D.	N.D.	1000

Remark:

1. N.D. =Not Detected (<Reporting limit)
2. “mg/kg” denotes milligram per kilogram
3. Limit quoted from Regulation (EC) No. 1907/2006 Annex XVII Entry 20: Tri-substituted organostannic compounds such as tributyltin (TBT) compounds and triphenyltin (TPhT) compounds < 0.1% by weight of tin; Dibutyltin (DBT) compounds < 0.1% by weight of tin; Dioctyltin (DOT) < 0.1% by weight of tin;

3. TEST RESULT(S)

3.4 Pentachlorophenol (PCP), Sum of Tetrachlorophenols (TeCP), and Trichlorophenols(TriCP) Content Test

Test method: With reference to ISO 17070:2015, solvent extraction, followed by derivatization and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 0.05 mg/kg]

Test Item	Result [mg/kg]	Limit [mg/kg]
	010	
Pentachlorophenol (PCP)	<0.05	< 5
2,3,5,6-Tetrachlorophenol	<0.05	/
2,3,4,6-Tetrachlorophenol	<0.05	
2,3,4,5-Tetrachlorophenol	<0.05	
Sum of Tetrachlorophenol (TeCP)	<0.05	< 5
2,3,4-Trichlorphenol	<0.05	/
2,3,5-Trichlorphenol	<0.05	
2,3,6-Trichlorphenol	<0.05	
2,4,5-Trichlorphenol	<0.05	
2,4,6-Trichlorphenol	<0.05	
3,4,5-Trichlorphenol	<0.05	
Sum of Trichlorophenol (TriCP)	<0.05	< 5

3. TEST RESULT(S)

3.4 Pentachlorophenol (PCP), Sum of Tetrachlorophenols (TeCP), and Trichlorophenols(TriCP) Content Test

Test method: With reference to ISO 17070:2015, solvent extraction, followed by derivatization and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 0.05 mg/kg]

Test Item	Result [mg/kg]	Limit [mg/kg]
	015	
Pentachlorophenol (PCP)	<0.05	< 5
2,3,5,6-Tetrachlorophenol	<0.05	/
2,3,4,6-Tetrachlorophenol	<0.05	
2,3,4,5-Tetrachlorophenol	<0.05	
Sum of Tetrachlorophenol (TeCP)	<0.05	< 5
2,3,4-Trichlorphenol	<0.05	/
2,3,5-Trichlorphenol	<0.05	
2,3,6-Trichlorphenol	<0.05	
2,4,5-Trichlorphenol	<0.05	
2,4,6-Trichlorphenol	<0.05	
3,4,5-Trichlorphenol	<0.05	
Sum of Trichlorophenol (TriCP)	<0.05	< 5

3. TEST RESULT(S)

3.4 Pentachlorophenol (PCP), Sum of Tetrachlorophenols (TeCP), and Trichlorophenols(TriCP) Content Test

Test method: With reference to ISO 17070:2015, solvent extraction, followed by derivatization and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 0.05 mg/kg]

Test Item	Result [mg/kg]	Limit [mg/kg]
	016	
Pentachlorophenol (PCP)	<0.05	< 5
2,3,5,6-Tetrachlorophenol	<0.05	/
2,3,4,6-Tetrachlorophenol	<0.05	
2,3,4,5-Tetrachlorophenol	<0.05	
Sum of Tetrachlorophenol (TeCP)	<0.05	< 5
2,3,4-Trichlorphenol	<0.05	/
2,3,5-Trichlorphenol	<0.05	
2,3,6-Trichlorphenol	<0.05	
2,4,5-Trichlorphenol	<0.05	
2,4,6-Trichlorphenol	<0.05	
3,4,5-Trichlorphenol	<0.05	
Sum of Trichlorophenol (TriCP)	<0.05	< 5

3. TEST RESULT(S)

3.4 Pentachlorophenol (PCP), Sum of Tetrachlorophenols (TeCP), and Trichlorophenols(TriCP) Content Test

Test method: With reference to ISO 17070:2015, solvent extraction, followed by derivatization and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 0.05 mg/kg]

Test Item	Result [mg/kg]	Limit [mg/kg]
	071	
Pentachlorophenol (PCP)	<0.05	< 5
2,3,5,6-Tetrachlorophenol	<0.05	/
2,3,4,6-Tetrachlorophenol	<0.05	
2,3,4,5-Tetrachlorophenol	<0.05	
Sum of Tetrachlorophenol (TeCP)	<0.05	< 5
2,3,4-Trichlorphenol	<0.05	/
2,3,5-Trichlorphenol	<0.05	
2,3,6-Trichlorphenol	<0.05	
2,4,5-Trichlorphenol	<0.05	
2,4,6-Trichlorphenol	<0.05	
3,4,5-Trichlorphenol	<0.05	
Sum of Trichlorophenol (TriCP)	<0.05	< 5

3. TEST RESULT(S)

3.4 Pentachlorophenol (PCP), Sum of Tetrachlorophenols (TeCP), and Trichlorophenols(TriCP) Content Test

Test method: With reference to ISO 17070:2015, solvent extraction, followed by derivatization and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 0.05 mg/kg]

Test Item	Result [mg/kg]	Limit [mg/kg]
	073	
Pentachlorophenol (PCP)	<0.05	< 5
2,3,5,6-Tetrachlorophenol	<0.05	/
2,3,4,6-Tetrachlorophenol	<0.05	
2,3,4,5-Tetrachlorophenol	<0.05	
Sum of Tetrachlorophenol (TeCP)	<0.05	< 5
2,3,4-Trichlorphenol	<0.05	/
2,3,5-Trichlorphenol	<0.05	
2,3,6-Trichlorphenol	<0.05	
2,4,5-Trichlorphenol	<0.05	
2,4,6-Trichlorphenol	<0.05	
3,4,5-Trichlorphenol	<0.05	
Sum of Trichlorophenol (TriCP)	<0.05	< 5

3. TEST RESULT(S)

3.4 Pentachlorophenol (PCP), Sum of Tetrachlorophenols (TeCP), and Trichlorophenols(TriCP) Content Test

Test method: With reference to ISO 17070:2015, solvent extraction, followed by derivatization and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 0.05 mg/kg]

Test Item	Result [mg/kg]	Limit [mg/kg]
	092	
Pentachlorophenol (PCP)	<0.05	< 5
2,3,5,6-Tetrachlorophenol	<0.05	/
2,3,4,6-Tetrachlorophenol	<0.05	
2,3,4,5-Tetrachlorophenol	<0.05	
Sum of Tetrachlorophenol (TeCP)	<0.05	< 5
2,3,4-Trichlorphenol	<0.05	/
2,3,5-Trichlorphenol	<0.05	
2,3,6-Trichlorphenol	<0.05	
2,4,5-Trichlorphenol	<0.05	
2,4,6-Trichlorphenol	<0.05	
3,4,5-Trichlorphenol	<0.05	
Sum of Trichlorophenol (TriCP)	<0.05	< 5

3. TEST RESULT(S)

3.4 Pentachlorophenol (PCP), Sum of Tetrachlorophenols (TeCP), and Trichlorophenols(TriCP) Content Test

Test method: With reference to ISO 17070:2015, solvent extraction, followed by derivatization and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 0.05 mg/kg]

Test Item	Result [mg/kg]	Limit [mg/kg]
	173	
Pentachlorophenol (PCP)	<0.05	< 5
2,3,5,6-Tetrachlorophenol	<0.05	/
2,3,4,6-Tetrachlorophenol	<0.05	
2,3,4,5-Tetrachlorophenol	<0.05	
Sum of Tetrachlorophenol (TeCP)	<0.05	< 5
2,3,4-Trichlorphenol	<0.05	/
2,3,5-Trichlorphenol	<0.05	
2,3,6-Trichlorphenol	<0.05	
2,4,5-Trichlorphenol	<0.05	
2,4,6-Trichlorphenol	<0.05	
3,4,5-Trichlorphenol	<0.05	
Sum of Trichlorophenol (TriCP)	<0.05	< 5

Remark:
1. N.D. =Not Detected (<Reporting limit)
2. “mg/kg” denotes milligram per kilogram
3. Regarding to Regulation (EC) No.1907/2006 Annex XVII Entry 22, Pentachlorophenol and its salts and esters, as a substance, or in mixtures in a concentration equal to, or greater than 0,1 % by weight.

3. TEST RESULT(S)

3.5 AZO DYES CONTENT

Test method: With reference to EN ISO 14362-1:2017 and EN ISO 14362-3: 2017, analyzed by Gas Chromatography and Mass Spectrometer (GC-MS) and High-performance liquid chromatography (HPLC). [Reporting Limit : 5.0 mg/kg]

No.	Test Item	Result(s) [mg/kg]	Limit [mg/kg]
		073	
1.	4-aminobiphenyl	<5.0	< 30
2.	Benzidine	<5.0	< 30
3.	4-chloro-o-toluidine	<5.0	< 30
4.	2-naphthylamine	<5.0	< 30
5.	o-aminoazotoluene	<5.0	< 30
6.	5-nitro-o-toluidine	<5.0	< 30
7.	4-chloroaniline	<5.0	< 30
8.	4-aminoazobenzene	<5.0	< 30
9.	2,4-diaminoanisole	<5.0	< 30
10.	4,4'-diaminodiphenylmethane	<5.0	< 30
11.	3,3'-dichlorobenzidine	<5.0	< 30
12.	3,3'-dimethoxylbenzidine	<5.0	< 30
13.	3,3'-dimethylbenzidine	<5.0	< 30
14.	4,4'-methylenedi-o-toluidine	<5.0	< 30
15.	p-cresidine	<5.0	< 30
16.	4,4'-methylene-bis-(2-chloro-aniline)	<5.0	< 30
17.	4,4'-oxydianiline	<5.0	< 30
18.	4,4'-thiodianiline	<5.0	< 30
19.	o-toluidine	<5.0	< 30
20.	2,4-toluenediamine	<5.0	< 30
21.	2,4,5-trimethylaniline	<5.0	< 30
22.	2-methoxyaniline	<5.0	< 30

3. TEST RESULT(S)

3.5 AZO DYES CONTENT

Test method: With reference to EN ISO 14362-1:2017 and EN ISO 14362-3: 2017, analyzed by Gas Chromatography and Mass Spectrometer (GC-MS) and High-performance liquid chromatography (HPLC). [Reporting Limit : 5.0 mg/kg]

No.	Test Item	Result(s) [mg/kg]	Limit [mg/kg]
		092	
1.	4-aminobiphenyl	<5.0	< 30
2.	Benzidine	<5.0	< 30
3.	4-chloro-o-toluidine	<5.0	< 30
4.	2-naphthylamine	<5.0	< 30
5.	o-aminoazotoluene	<5.0	< 30
6.	5-nitro-o-toluidine	<5.0	< 30
7.	4-chloroaniline	<5.0	< 30
8.	4-aminoazobenzene	<5.0	< 30
9.	2,4-diaminoanisole	<5.0	< 30
10.	4,4'-diaminodiphenylmethane	<5.0	< 30
11.	3,3'-dichlorobenzidine	<5.0	< 30
12.	3,3'-dimethoxylbenzidine	<5.0	< 30
13.	3,3'-dimethylbenzidine	<5.0	< 30
14.	4,4'-methylenedi-o-toluidine	<5.0	< 30
15.	p-cresidine	<5.0	< 30
16.	4,4'-methylene-bis-(2-chloro-aniline)	<5.0	< 30
17.	4,4'-oxydianiline	<5.0	< 30
18.	4,4'-thiodianiline	<5.0	< 30
19.	o-toluidine	<5.0	< 30
20.	2,4-toluenediamine	<5.0	< 30
21.	2,4,5-trimethylaniline	<5.0	< 30
22.	2-methoxyaniline	<5.0	< 30

3. TEST RESULT(S)

3.5 AZO DYES CONTENT

Test method: With reference to EN ISO 14362-1:2017 and EN ISO 14362-3: 2017, analyzed by Gas Chromatography and Mass Spectrometer (GC-MS) and High-performance liquid chromatography (HPLC). [Reporting Limit : 5.0 mg/kg]

No.	Test Item	Result(s) [mg/kg]	Limit [mg/kg]
		173	
1.	4-aminobiphenyl	<5.0	< 30
2.	Benzidine	<5.0	< 30
3.	4-chloro-o-toluidine	<5.0	< 30
4.	2-naphthylamine	<5.0	< 30
5.	o-aminoazotoluene	<5.0	< 30
6.	5-nitro-o-toluidine	<5.0	< 30
7.	4-chloroaniline	<5.0	< 30
8.	4-aminoazobenzene	<5.0	< 30
9.	2,4-diaminoanisole	<5.0	< 30
10.	4,4'-diaminodiphenylmethane	<5.0	< 30
11.	3,3'-dichlorobenzidine	<5.0	< 30
12.	3,3'-dimethoxylbenzidine	<5.0	< 30
13.	3,3'-dimethylbenzidine	<5.0	< 30
14.	4,4'-methylenedi-o-toluidine	<5.0	< 30
15.	p-cresidine	<5.0	< 30
16.	4,4'-methylene-bis-(2-chloro-aniline)	<5.0	< 30
17.	4,4'-oxydianiline	<5.0	< 30
18.	4,4'-thiodianiline	<5.0	< 30
19.	o-toluidine	<5.0	< 30
20.	2,4-toluenediamine	<5.0	< 30
21.	2,4,5-trimethylaniline	<5.0	< 30
22.	2-methoxyaniline	<5.0	< 30

Remark:

1. "mg/kg" denotes milligram per kilogram
2. "<" denotes less than
3. Regarding to Regulation (EC) No.1907/2006 Annex XVII Entry43.
   (1) Azodyes which, by reductive cleavage of one or more azo groups, may release one or more of the aromatic amines listed in Appendix 8, in detectable concentrations, i.e. above 30 mg/kg (0,003 % by weight) in the articles or in the dyed parts thereof, shall not be used, in textile and leather articles which may come into direct and prolonged contact with the human skin or oral cavity, such as clothes, footwear, and bags, etc.
   (2) Azodyes, which are contained in Appendix 9, 'List of azodyes' shall not be placed on the market, or used, as substances, or in mixtures in concentrations greater than 0,1 % by weight, where the substance or the mixture is intended for colouring textile and leather articles.

3. TEST RESULT(S)

3.6 NONYLPHENOL ETHOXYLATES (NPEO) CONTENT TEST

Test method: In house method, extracted by organic solvent and analyzed by Liquid Chromatography with Tandem Mass Spectrometry Detection (LC-MS/MS).
[Reporting limit: 10 mg/kg]

Test Item	Result(s) [mg/kg]		Client's Specification [mg/kg]
	010	015	
Nonylphenol (NP)	<10	<10	1000
Nonylphenolethoxylates (NPEO)	<10	<10	100

Test Item	Result(s) [mg/kg]		Client's Specification [mg/kg]
	016	071	
Nonylphenol (NP)	<10	<10	1000
Nonylphenolethoxylates (NPEO)	<10	<10	100

Test Item	Result(s) [mg/kg]		Client's Specification [mg/kg]
	073	092	
Nonylphenol (NP)	<10	<10	1000
Nonylphenolethoxylates (NPEO)	<10	<10	100

Test Item	Result(s) [mg/kg]	Client's Specification [mg/kg]
	173	
Nonylphenol (NP)	<10	1000
Nonylphenolethoxylates (NPEO)	<10	100

Remark:
1. "mg/kg" denotes milligram per kilogram
2. "<" denotes less than
3. Regarding to Regulation (EC) No.1907/2006 Annex XVII Entry 46, regulated Nonylphenol and Nonylphenol ethoxylates. Shall not be placed on the market, or used, as substances or in mixtures in concentrations equal to or greater than 0,1 % by weight
4. Regarding to Regulation (EC) No.1907/2006 Annex XVII Entry 46(a), Shall not be placed on the market after 3 February 2021 in textile articles which can reasonably be expected to be washed in water during their normal lifecycle, in concentrations equal to or greater than 0,01 % by weight of that textile article or of each part of the textile article

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TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi, Jiangsu, 214 101, P. R. China
Tel.: +86-510-8820-3737 Fax: +86-510-8820-3636
www.tuv-sud.cn info@tuv-sud.cn

Laboratory: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch Testing Center
No. 1999 Du Hui Rd, Minhang District, Shanghai 201108 P.R. China
Tel.: +86-21-6037-6501

3. TEST RESULT(S)

3.7 DIMETHYL FUMARATE (DMFU) CONTENT TEST

Test method: With reference to ISO 16186:2021, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Report limit: 0.1 mg/kg]

Test Item	Result [mg/kg]		Maximum Permissible Limit [mg/kg]
	010	015	
Dimethyl Fumarate (DMFu)	< 0.1	< 0.1	0.1

Test Item	Result [mg/kg]		Maximum Permissible Limit [mg/kg]
	016	017	
Dimethyl Fumarate (DMFu)	< 0.1	< 0.1	0.1

Test Item	Result [mg/kg]		Maximum Permissible Limit [mg/kg]
	073	092	
Dimethyl Fumarate (DMFu)	< 0.1	< 0.1	0.1

Test Item	Result [mg/kg]	Maximum Permissible Limit [mg/kg]
	173	
Dimethyl Fumarate (DMFu)	< 0.1	0.1

Remark:
1. "mg/kg" denotes milligram per kilogram
2. "<" denotes less than
3. Regarding to Regulation (EC) No.1907/2006 Annex XVII Entry61.
   (3) Shall not be used in articles or any parts thereof in concentrations greater than 0,1 mg/kg.
   (4) Articles or any parts thereof containing DMF in concentrations greater than 0,1 mg/kg shall not be placed on the market.

APPENDIX I:
Photos of submitted products

Sample Description: Cordless Stick Vacuum Cleaner + Auto-Empty Dock
Model No.: H9A1A+MDS23HRR

Sample Description: Cordless Stick Vacuum Cleaner
Model No.: H10A1A

---------End of Report--------