

TEST REPORT

APPLICANT : NINGBO DAHUA ELECTRIC APPLIANCE CO.,LTD.
ADDRESS : XIAODONG INDUSTRIAL ZONE, YUYAO CITY,
 ZHEJIANG, P.R. CHINA
SAMPLE DESCRIPTION : VACUUM CLEANER
STYLE / ITEM NO. : SL303A07
REFERENCE NO. : PLEASE REFER TO PAGE 2.
EXPORTED TO : EUROPE
AGE REQUESTED ON APPLICATION FORM : NOT PRESENT
SAMPLE RECEIVED DATE : MAY 02, 2018
TEST PERIOD : MAY 02, 2018 TO MAY 11, 2018
RESULT SUMMARY :

TEST REQUESTED	RESULT
- RoHS Directive 2011/65/EU.	PASS

*****FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)*****

SIGNED FOR AND ON BEHALF OF
 EUROFINS TESTING TECHNOLOGY (SHENZHEN) CO. LTD.



Harry Chen
 Lab & Technical Support Manager



Coco Luo
 Lab & Reporting Manager



This test report is valid for the tested samples only. Without permission of the test center this test report is not permitted to be duplicated in extracts.
 This test report does not entitle to carry any safety mark on this or similar products.

General remark:

Sample information are provided by customer:

REFERENCE NO. :

SL111	SL121X	SL150X	SL160X	SL201X	SL210X	SL220X	SL230X	SL240X
SL212	SL122X	SL151X	SL161X	SL202X	SL211X	SL221X	SL231X	SL241X
SL222	SL123X	SL152X	SL162X	SL203X	SL212X	SL222X	SL232X	SL242X
SL239	SL124X	SL153X	SL163X	SL204X	SL213X	SL223X	SL233X	SL243X
	SL125X	SL154X	SL164X	SL205X	SL214X	SL224X	SL234X	SL244X
	SL126X	SL155X	SL165X	SL206X	SL215X	SL225X	SL235X	SL245X
	SL127X	SL156X	SL166X	SL207X	SL216X	SL226X	SL236X	SL246X
	SL128X	SL157X	SL167X	SL208X	SL217X	SL227X	SL237X	SL247X
	SL129X	SL158X	SL168X	SL209X	SL218X	SL228X	SL237EX	SL248X
		SL159X	SL169X		SL219X	SL229X	SL237FX	SL249X
							SL238X	SL241EX
							SL239X	

SL250X	SL280X	SL301X	SL401X	SL583X	SL585FX	SL590X	SL601X	SL611X
SL251X	SL281X	SL302X	SL402X	SL583EX	SL585GX	SL591X	SL602X	SL612X
SL252X	SL282X	SL303X	SL403X	SL583FX	SL585HX	SL592X	SL603X	SL613X
SL253X	SL283X	SL304X	SL404X	SL583HX	SL585IX	SL593X	SL604X	SL614X
SL254X	SL284X	SL305X	SL405X	SL584X	SL585JX	SL594X	SL605X	SL615X
SL255X	SL285X	SL306X	SL406X	SL585X	SL585KX	SL595X	SL606X	SL616X
SL256X	SL286X	SL307X	SL407X	SL585EX	SL588EX	SL596X	SL607X	SL617X
SL257X	SL287X	SL308X	SL408X	SL586X	SL588FX	SL597X	SL608X	SL618X
SL258X	SL288X	SL309X	SL409X	SL586EX		SL598X	SL609X	SL619X
SL259X	SL289X	SL310X	SL410X	SL587X		SL599X		
				SL588X				
				SL589X				

备注: X=A04、A45、A05、A06、A07、A08、A89、A09、AA、A、B、C、D、E、F、G、H、T、GA04、GA45、GA05、GA06、GA07、GA08、GA89、GA09、GAA、GA、GB、GC、GD、GE、GF、GG、GH、HA04、HA45、HA05、HA06、HA07、HA08、HA89、HA09、HAA、HA、HB、HC、HD、HE、HF、HG、HH、NA04、NA45、NA05、NA06、NA07、NA08、NA89、NA09、NAA、NA、NB、NC、ND、NE、NF、NG、NH

TO BE CONTINUED

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RoHS

Test Method : (1) Screening by XRF Spectroscopy:
 IEC 62321-3-1: 2013, Lead, Mercury, Cadmium, total Chromium and total Bromine by X-ray fluorescence spectrometry

(2) Wet Chemical test:
 Cadmium, Lead: IEC 62321-5: 2013, determined by ICP-OES.
 Mercury: IEC 62321-4: 2013/AMD1: 2017, determined by ICP-OES.
 Chromium (VI): IEC 62321-7-1: 2015 and IEC 62321-7-2: 2017, determined by UV/VIS.
 PBBs & PBDEs: IEC 62321-6: 2015, determined by GC-MS.

Test Result :

Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
1	Black plastic vacuum chuck, connector, jointed tube and arc tube of spring tube, bottom and big wheels of body, frame of strainer, holder of dust bag	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
2	Black plastic button, channel of wiper, holder of wheels, tube and slider of extension rod, ring of spring tube	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
3	Black plastic brush	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
4	Black plastic channel of brush	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
5	Silvery metal channel of brush	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
6	Silvery metal wire of brush	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--

TO BE CONTINUED

Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
7	Red textile sheet of vacuum chuck and connector with transparent glue	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
8	Black soft plastic wiper of vacuum chuck	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
9	Light black soft plastic small wheels	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
10	Silvery metal axes of wheels	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
11	Black plastic spring tube of vacuum chuck	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
12	Silvery metal holder sheet of brush	Cd	BL	--
		Pb	IN	N.D.
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--
13	Silvery metal screw	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
14	Bright silvery metal extension rod	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
15	Beige plastic block of extension rod	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
16	Light blue metal spring of extension rod	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--
17	Silvery metal stick of extension rod	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
18	Silvery metal nut	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
19	Transparent white plastic ring inside of extension rod and spring tube	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
20	Black plastic spring tube	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
21	Black soft plastic sealing ring on jointed tube of spring tube	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
22	Red plastic top cover of body	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
23	Silvery coating on top cover , button and slider of body, ring on top cover	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
24	Light yellow plastic button, slider and ring on top cover, holder of stopper(roller)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
25	Silvery metal spring of button	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--
26	Black soft plastic ring on top cover	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
27	Black metal spring on top cover	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
28	Black EVA ring at reverse side of top cover	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
29	Transparent plastic cylinder at reverse side of top cover	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
30	Bright orange plastic stick inside of cylinder	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
31	Dark cyan plastic stick inside of cylinder	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
32	Transparent soft plastic cover of cylinder	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
33	Light black metal spring of cylinder and stopper(roller)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
34	Black soft plastic ring on big wheels of body	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
35	Brown and grey paper sheet on dust bag with black printing and transparent glue	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
36	Khaki paper sheet of dust bag	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
37	Khaki soft plastic ring of dust bag	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
38	White non- woven dust bag	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
39	White compressed fabric filling of dust bag	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
40	White compressed fabric cover of strainer	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
41	Transparent glue of strainer	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
42	Khaki glue of strainer	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
43	Black soft plastic plug	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
44	Black plastic plug	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	IN	N.D.
		PBDEs	IN	N.D.
45	Silvery metal pin of plug	Cd	BL	--
		Pb	IN	2.5x10 ⁴ (*)
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
46	Black soft plastic wire(outside)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
47	Blue plastic wire	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
48	Brown plastic wire	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
49	Copper metal core of wire	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
50	Red plastic tape on wire with transparent glue	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
51	White plastic roller of wire	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
52	Silvery metal holder sheet of roller	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
53	Bronze metal tape of roller	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--
54	Pale grey plastic stick of roller and stopper	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
55	Black soft plastic stopper of roller	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
56	Copper metal pin of roller	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
57	Golden metal loop of roller	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
58	White plastic stick of button	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
59	Black plastic box of button	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	IN	N.D.
		PBDEs	IN	N.D.
60	Silvery metal pin of button	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
61	Semi-transparent plastic stick inside of button	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
62	Deep silvery metal loop inside of button	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
63	Silvery metal short spring inside of button	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
64	Silvery metal long spring inside of button	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
65	White plastic stick of slider	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
66	Silvery metal frame of slider	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
67	Light brown plastic sheet of slider	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
68	Brown plastic sheet inside of slider	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
69	Dark brown plastic sheet inside of slider	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
70	Bright silvery metal sheet inside of slider	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
71	Grey and black plastic sheet inside of slider	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
72	Silvery metal sheet and pin of slider	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
73	White and pink textile/ plastic tube on wire	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
74	White soft plastic wire with black printing	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
75	Pink soft plastic wire with black printing	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
76	Dark blue plastic wire	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	N.D.
		PBBs	BL	--
		PBDEs	BL	--
77	Dark brown plastic wire	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
78	Silvery metal socket end of wire	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--

TO BE CONTINUED

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
79	Transparent soft plastic tube of socket	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
80	Transparent blue soft plastic tube of socket	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
81	Brown PCB inside of body(plastic/ metal/ coating)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	IN	N.D.
		PBDEs	IN	N.D.
82	White plastic socket	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
83	Silvery metal pin and clip of socket	Cd	BL	--
		Pb	IN	N.D.
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
84	Yellow C2 on PCB(plastic/ glue/ metal/ printing)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	IN	N.D.
		PBDEs	IN	N.D.
85	Multicolor blue R1 on PCB(ceramic/ metal)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
86	Multicolor khaki R2 on PCB(ceramic/ metal)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
87	Blue VS2 on PCB(ceramic/ metal)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
88	Black ceramic VS1 on PCB	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
89	Deep silvery metal sheet and pin of VS1	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
90	Silvery metal sheet on PCB	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
91	Silvery metal soldering tin	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
92	Black foam inside of body	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
93	Light black plastic case of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
94	Multicolor textile sheet inside of body	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
95	Grey soft plastic ring of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
96	Black soft plastic block of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
97	Silvery metal cover of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
98	Black EVA on motor cover	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	N.D.
		PBBs	BL	--
		PBDEs	BL	--
99	Red glue on motor cover	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
100	Beige plastic fan blade of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
101	Silvery metal fan blade of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--
102	Black coating on fan blade	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
103	Light blue metal ring on axis(motor)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
104	Slivery metal loop on axis(motor)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--
105	Silvery metal hull of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
106	Black plastic block on hull of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
107	Grey metal tube on plastic block	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
108	Black carbon stick on metal tube	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
109	Black metal spring on carbon stick	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--
110	Copper metal core on carbon stick	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
111	Golden metal sheet on carbon stick and plastic block	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
112	Silvery metal block and frame of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--
113	Khaki plastic frame on metal block of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
114	Muddy yellow plastic frame on metal block of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
115	Dark copper metal thick core on metal block	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
116	White plastic banding	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
117	Black plastic heat shrink tube	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
118	White and blue textile/ plastic tube on core	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
119	Deep silvery thermal protector of motor (metal/ plastic)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
120	Transparent plastic tube of thermal protector	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
121	Light blue soft plastic wire of thermal protector	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
122	Silvery metal core of wire	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
123	Silvery metal holder sheet of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
124	Silvery metal axis of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--
125	Silvery metal axletree on axis (motor)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--
126	Light golden metal cover of axletree	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--

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Test No.	Material Description	XRF Results (mg/kg) (1)		Wet Chemical Confirmation Result (mg/kg) (2)
127	Black soft plastic cover of axletree	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
128	Black metal clip on axis(motor)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	IN	Negative
		PBBs	NA	--
		PBDEs	NA	--
129	Copper metal cylinder on axis(motor)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
130	Black and green ceramic cylinder on axis(motor)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
131	Green plastic frame on axis(motor)	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	IN	N.D.
		PBDEs	IN	N.D.
132	Dark copper metal thin core on frame of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	NA	--
		PBDEs	NA	--
133	Green paper sheet on frame of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--
134	White plastic tube on frame of motor	Cd	BL	--
		Pb	BL	--
		Hg	BL	--
		Cr(VI)	BL	--
		PBBs	BL	--
		PBDEs	BL	--

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Remark:

(1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr(VI).

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321.

XRF Screening Limits in mg/kg for Regulated Elements in Various Matrices:

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	-	$BL \leq (250-3\sigma) < X$

(c) The XRF screening test for ROHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

Note: BL= Below Limit

OL= Over Limit

IN = Inconclusive

LOD = Limit of Detection

N.D. = Not Detected (<MDL)

- = Not Regulated

-- = Not Conducted

mg/kg = milligram per kilogram = ppm = 0.0001%

(2) (a) Unit and Method Detected Limit (MDL) in wet chemical test.

Testing Item	Detection Limit
Cadmium, Lead & Mercury	10 mg/kg
Chromium (VI)	10 mg/kg
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	10 [^] mg/kg

[^] The MDL for single compound of PBBs and PBDEs.

(b) According to IEC 62321, result on Cr(VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr(VI) coating.

Positive = Presence of Cr(VI) coating.

(3) RoHS Requirement

Restricted Substances	Limits [^]
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr VI)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)

[^]The above limits were quoted from 2011/65/EU for homogeneous material.

(4) (*) According to the Annex of RoHS Directive 2011/65/EU, "Copper alloy containing up to 4% (4.0x10⁴mg/kg) lead by weight" is exempted from the requirements of Article 4(1). This exemption applies to testing sample No. 45.

TO BE CONTINUED

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Other Information / Remark:




- (1) Replacement of report (No: EFSN18050035C-C2). Upon receipt of this report, the previous report (No: EFSN18050035C-C2) will be invalid immediately.
- (2) Revision history: Revise reference no.




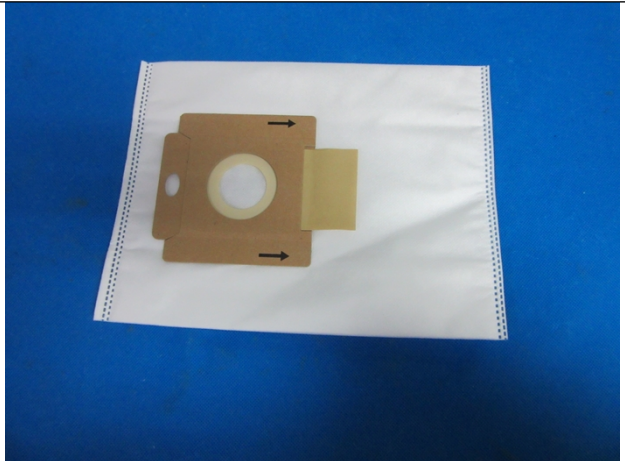


Photo Attachment**VACUUM CLEANER**



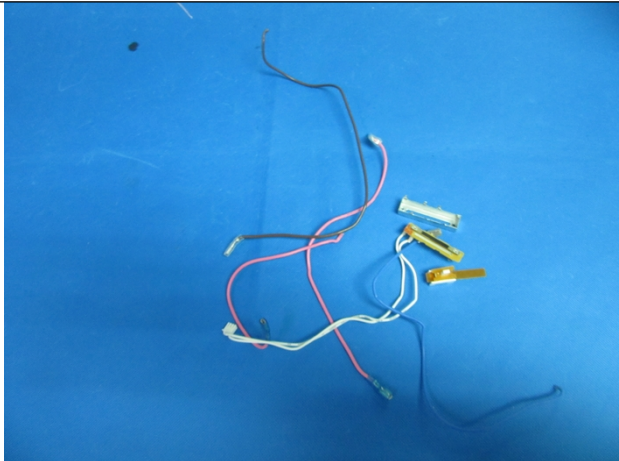
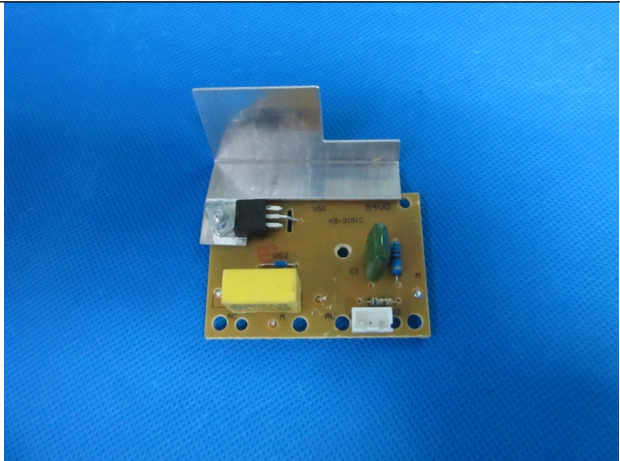
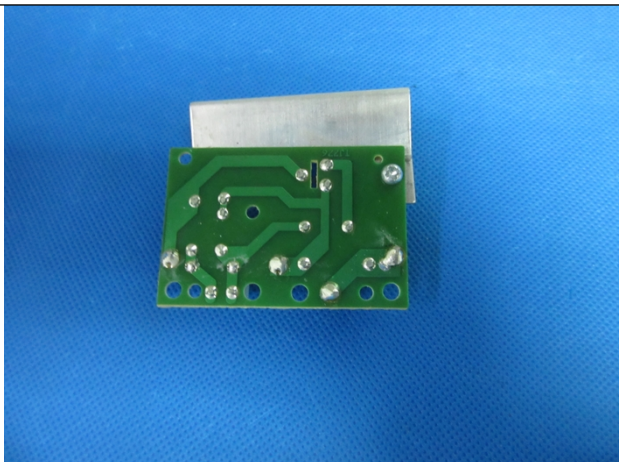
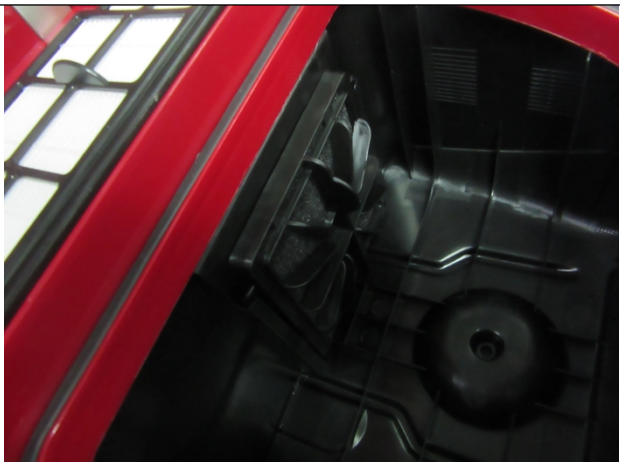
TO BE CONTINUED





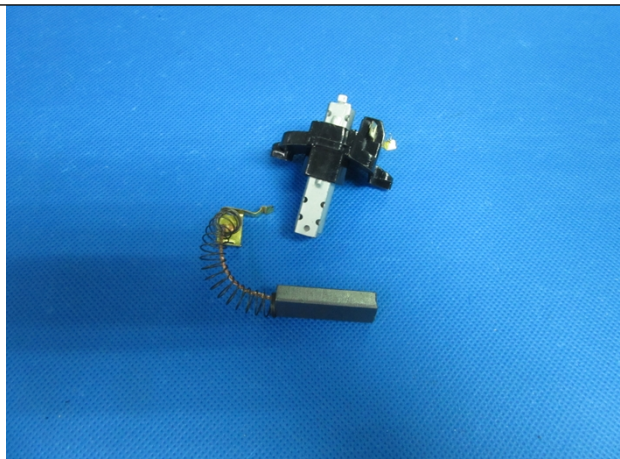

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Material Photo Attachment	
Material No. 1-13	Material No. 14-19
	
Material No. 20	Material No. 21
	
Material No. 22,23	Material No. 24,25
	

Material Photo Attachment	
Material No. 26-28	Material No. 29-33
	
Material No. 34	Material No. 35-39
	
Material No. 40-42	Material No. 43-56
	

Material Photo Attachment	
Material No. 57	Material No. 58-64
	
Material No. 65-80	Material No. 81-90
	
Material No. 91	Material No. 92
	

Material Photo Attachment	
Material No. 93,94	Material No. 95,96
	
Material No. 97-104,123	Material No. 105,113,116-122
	
Material No. 106-111	Material No. 112,114,115
	

Material Photo Attachment**Material No. 124-134**

END OF THE REPORT