

TEST REPORT

APPLICANT : JINYUN TENGBA ELECTRIC CO.,LTD

ADDRESS : WUDONG INDUSTRIAL ,DONGDU TOWN, JINYUN
COUNTY, LISHUI CITY, ZHEJIANG PROVINCE.

TESTED SAMPLE DESCRIPTION : VACUUM CLEANER

TESTED ITEM NO. : TB918-*L-**W (*=8, 10, 12, 15, 18, 20;**
=500/600/700/800/899)

REFERENCE ITEM NO. : PLEASE REFER TO PAGE 2

AGE REQUESTED ON APPLICATION FORM : NOT PRESENT

SAMPLE RECEIVED DATE : APR. 06, 2021

TEST PERIOD : APR. 07, 2021 TO APR. 14, 2021

RESULT SUMMARY :

TEST(S) REQUESTED BY APPLICANT:	RESULT
- RoHS Directive 2011/65/EU and its amendment Directive (EU) 2015/863.	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



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General remark:

Sample information provided by customer:

REFERENCE ITEM NO.

: TB915-*L-**W (*=12, 15, 18, 20,25,30,**
=1000/1200/1400/1600) JB301-*L-**W (*=8, 10, 12,
15, 18, 20,** =500/600/700/800/899)
TB211-*L-**W (*=10, 12, 15, 18, 20, 25,30,**
=800/900/1000/1200/1400 /1600)
TB212-*L-**W (*=10, 12, 15, 18, 20, 25,30,**
=800/900/1000/1200/1400 /1600)
TB213-*L-**W (*=15, 20, 25, 30, 35, 40,**
=1200/1400 /1600/1600/1800/2000)
TB215-*L-**W (*=12, 15, 18, 20,25,30,**
=1000/1200/1400/1600)
JB302-*L-**W (*=12, 15, 18, 20,25,30,**
=1000/1200/1400/1600)
JB303-*L-**W (*=15, 20,25,30,35,40,**
=1200/1400/1600/1800/2000)
TB917-*L-**W (*=15, 20,25,30,35,40,**
=1200/1400/1600/1800/2000)
TB916-*L-**W (*=25, 30,35,40,50,60,**
=1200/1400/1600/1800/2000)
TB919-*L-**W (*=70, 80,90,100,,**
=3600/4200/5400/6000)
TB019-*L-**W (*=60,70, 80,90,100,,**
=2400,3200,3600/4200/5400/6000)
新增型号: HM216-*L-**W (*=8, 10, 12, 15, 18, 20,**
=500/600/700/800/899)
HM218-*L-**W (*=12, 15, 18, 20,25,30,**
=1000/1200/1400/1600)
TB917A-*L-**W (*=15, 20,25,30,35,40,**
=1200/1400/1600/1800/2000)
TB916A-*L-**W (*=25, 30,35,40,50,60,**
=1200/1400/1600/1800/2000)
TB019A-*L-**W (*=60,70, 80,90,100,,**
=2400,3200,3600/4000)

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.

(3) DBP, BBP, DEHP and DiBP: IEC 62321-8:2017

Test Result :

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
1	Silvery metal tube	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
2	Black plastic jointed tube (Extension rod), lid and handle (Lid), bottom (Strainer)	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	IN	--	N.D.
		PBDEs	IN	--	88
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
4	Silvery metal tape inside of extension rod	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
5	Silvery metal bucket	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
6	Black coating on bucket	Cd	BL	--	--
		Pb	IN	--	N.D.
		Hg	BL	--	--
		Cr(VI)	IN	--	90
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
7	Black plastic buckle of bucket	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
8	Silvery metal screw	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
9	Orange plastic tube on bucket, lid	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
10	Black soft plastic plug	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	IN	N.D.
		BBP	--	IN	N.D.
		DEHP	--	IN	N.D.
		DiBP	--	IN	N.D.
11	White plastic plug	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	IN	--	N.D.
		PBDEs	IN	--	N.D.
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
12	Silvery metal pin of plug	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
13	Black soft plastic power cable	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	IN	N.D.
		BBP	--	IN	N.D.
		DEHP	--	IN	N.D.
		DiBP	--	IN	N.D.

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
14	Blue soft plastic wire	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
15	Brown soft plastic wire	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
16	Copper metal wire core	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
17	Silvery metal socket end of wire	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
19	Beige plastic holder sheet of wire	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
20	Black foam inside of lid	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
21	Semi-transparent plastic cap end of wire	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
22	Silvery metal ring of cap	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
27	Silvery metal pin of switch	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
29	Silvery metal spring inside of switch	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
30	Silvery metal sheet inside of switch	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
31	Silvery and copper metal dot on metal sheet and pin of switch	Cd	IN	--	1.90x10 ⁴ (*)
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
32	Dim gray foam gasket with transparent glue on lid	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
33	Silvery metal cover of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
35	Black plastic fan and loo of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	IN	--	N.D.
		PBDEs	IN	--	N.D.
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
36	Iridescent silvery metal fan of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
37	Silvery metal nut	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
38	Silvery metal ring on axis of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
39	Silvery metal loop on axis of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
40	Black metal loop on axis of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
41	Black soft plastic ring on motor cover	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
42	Black plastic block on axis of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
43	Golden metal tube on plastic block	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
44	Matt black carbon rod on metal tube	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
45	Silvery metal spring on carbon rod	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
46	Copper metal core on carbon rod	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
47	Silvery metal block and frame of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
48	Dark copper metal core on metal block of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
49	Blue-green plastic sheet on metal block	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
50	Semi-transparent plastic banding	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
51	White plastic tube on core	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
52	White textile cover of plastic tube	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
53	Transparent plastic adhesive tape with transparent glue on core	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
54	White soft plastic wire with black printing	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	IN	N.D.
		BBP	--	IN	N.D.
		DEHP	--	IN	N.D.
		DiBP	--	IN	57
55	Silvery metal wire core	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
56	Yellow plastic hull with black printing of capacitance	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	IN	--	N.D.
		PBDEs	IN	--	N.D.
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
57	Light yellow glue of capacitance	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	IN	--	N.D.
		PBDEs	IN	--	N.D.
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
58	Silvery and transparent plastic block inside of capacitance	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
59	Black soft plastic wire of capacitance	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	IN	N.D.
		BBP	--	IN	N.D.
		DEHP	--	IN	77
		DiBP	--	IN	N.D.
60	Silvery metal long screw of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
61	Silvery metal axis of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
62	Silvery metal axletree on axis of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
63	Light golden metal cover of axletree	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
64	Black metal clip on axis of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	IN	--	Negative
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
65	Reddish brown plastic frame on axis of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
66	Reddish brown metal core on frame of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
67	Red paper sheet on frame of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
68	Blue plastic tube on frame of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--

Material No.	Material Description	XRF Results (mg/kg) (1)		Screening Results of PHTH (mg/kg) (2)	Wet Chemical Confirmation Result (mg/kg) (3)
69	Copper metal cylinder on axis of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
70	Black and blackish green ceramic cylinder on axis of motor	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--
71	Rose red soft plastic loop with transparent glue of strainer	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
72	White non-woven strainer	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	BL	--	--
		PBDEs	BL	--	--
		DBP	--	BL	--
		BBP	--	BL	--
		DEHP	--	BL	--
		DiBP	--	BL	--
73	Silvery metal net with solder of strainer	Cd	BL	--	--
		Pb	BL	--	--
		Hg	BL	--	--
		Cr(VI)	BL	--	--
		PBBs	NA	--	--
		PBDEs	NA	--	--
		DBP	--	NA	--
		BBP	--	NA	--
		DEHP	--	NA	--
		DiBP	--	NA	--

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)

NA = Not Applicable

- = Not Regulated

-- = Not Conducted

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

(2) Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DiBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg)

Compound	Polymer Materials
DBP	$BL \leq 600 < X$
BBP	$BL \leq 600 < X$
DEHP	$BL \leq 600 < X$
DiBP	$BL \leq 600 < X$

(3) (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
Dibutylphthalate (DBP)	50 mg/kg
Benzylbutylphthalate (BBP)	50 mg/kg
Diethylhexylphthalate (DEHP)	50 mg/kg
Diisobutyl phthalate (DiBP)	50 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.

(4) 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)
Dibutylphthalate (DBP)	0.1% (1000 mg/kg)
Benzylbutylphthalate (BBP)	0.1% (1000 mg/kg)
Diethylhexylphthalate (DEHP)	0.1% (1000 mg/kg)
Diisobutyl phthalate (DiBP)	0.1% (1000 mg/kg)

^The above limits were quoted from 2011/65/EU and its amendment Directive (EU) 2015/863 for homogeneous material.

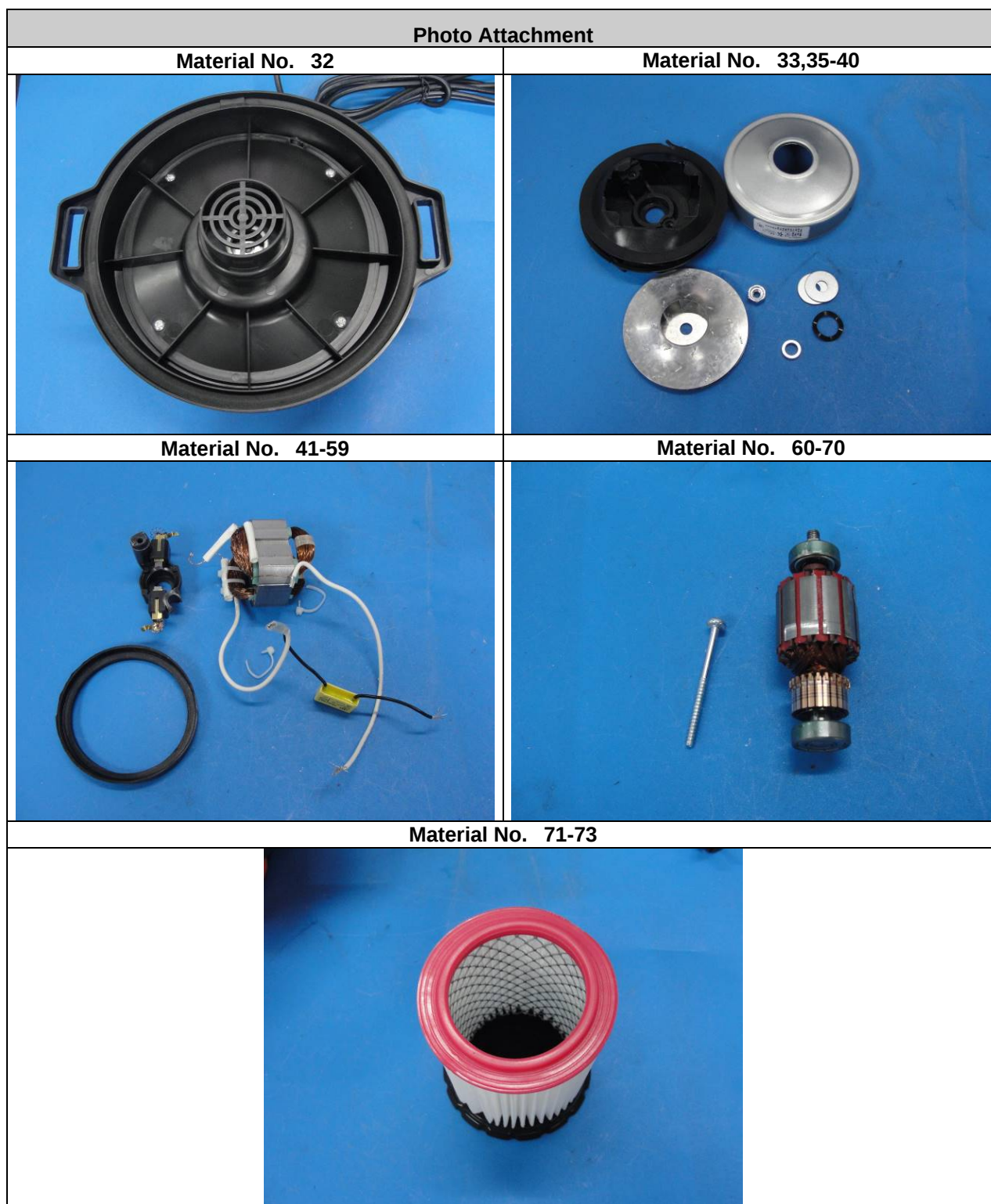
- (5) (*)According to the Annex of RoHS Directive 2011/65/EU, "Cadmium and its compounds in electrical contacts" is exempt from the requirements of Article 4(1). This exemption applies to testing sample No. 31.

Other Information / Remark:

According to the customer's requirement, the appointed material has been tested.

Photo Attachment**VACUUM CLEANER**

Photo Attachment	
Material No. 1	Material No. 2,4
	
Material No. 5-9	Material No. 10-12
	
Material No. 13-17,19-22,27	Material No. 29-31
	



END OF THE REPORT