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检测  
TESTING  
CNAS L1744

# TEST REPORT



LAB NO. : (8821)140-0037  
DATE : Jun 17, 2021  
PAGE : 1 OF 35

**Applicant Name:** SHANTOU CITY CHENGHAI DISTRICT DINOSAURS'ISLAND TOYS INDUSTRIAL CO.,LTD

**Applicant Address:** DONGHU INDUSTRIAL,FENGXIANG STREET,CHENGHAI DISTRICT SHANTOU CITY GUANGDONG CHINA

**Date of Submission:** MAY 20, 2021

**Test Period:** MAY 20, 2021 TO JUN 16, 2021

**Sample Description:** ANIMAL TOY

Style No. : SEE ATTACHMENT

Country of origin: CHINA

Sample Size: 1



BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

Harvey Xue  
Manager, Analytical Lab

RT/Tina Ye

**REMARK**

If there are questions or concerns on this report, please contact the following persons:

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**ATTACHMENT:**

Style No. :

RS61-100, RS6121,RS6121A,RS6122,RS6122A,RS6123,RS6123A,RS6124,RS6124A,RS6125,RS6125A, RS6126,RS6126A,RS6127,RS6128,RS6129,RS6129A,RS6131,RS6132,RS6133,RS6133A,RS6133B,RS6134, RS6134A,RS6134B,RS6135,RS6135A,RS6136,RS6136A,RS6137A,RS6137B,RS6138A,RS6138B,RS6139, RS6139A,RS6151,RS6152,RS6153,RS6154,RS6155A,RS6155B,RS6156,RS6156A,RS6157,RS6158, RS6158A,RS6159,RS6159A,RS6161,RS6162,RS6163,RS6163A,RS6163B,RS6164,RS6164A,RS6164B, RS6165,RS6166,RS6167A,RS6167B,RS6168A,RS6168B,RS6169A,RS6171,RS6171A,RS6172,RS6172A, RS6173,RS6173A,RS6174,RS6174A,RS6175,RS6176,RS6177,RS6177A,RS6178,RS6178A,RS6179,RS6180, RS6181,RS6182,RS6183,RS6184,RS6185,RS6186,RS6187,RS6188,RS6188A,RS6189A,RS6190,RS6191, RS6192,RS6193,RS6194,RS6195,RS6196,RS6197,RS001-1,RS001-2,RS001-3,RS001-4,RS002-1,RS002-2, RS003-1,RS003-2,RS004-1,RS004-2,RS004-3,RS004-4,RS004-5,RS004-6,RS005-1,RS005-2,RS005-3, RS006-1,RS006-2,RS007-1,RS007-2,RS007-3,RS008-1,RS008-2,RS008-3,RS009-1,RS009-2,RS009-3, RS009-E-COMMERCE VERSION,RS010,RS011,RS012-1,RS012-2,RS012-3,RS012-4,RS012-5,RS012-6, RS013-1,RS013-10,RS013-2,RS013-3,RS013-4,RS013-5,RS013-6,RS013-7,RS013-8,RS013-9,RS014, RS61-555Y,RS015-1,RS015-2,RS015-3,RS015-4,RS016-1,RS016-2,RS016-3,RS016-4,RS017-1,RS017-2, RS017-3,RS018,RS019,RS020

**SUMMARY OF TEST RESULTS**

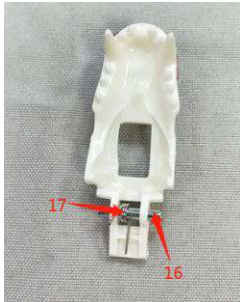

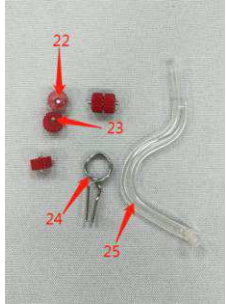
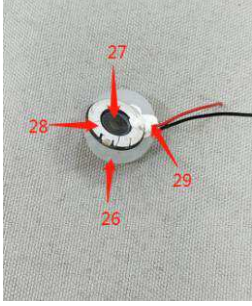
<b>TEST REQUESTED</b>	<b>CONCLUSION</b>	<b>REMARK</b>
Heavy Metals and Flame Retardants Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)	PASS	-
Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863	PASS	-

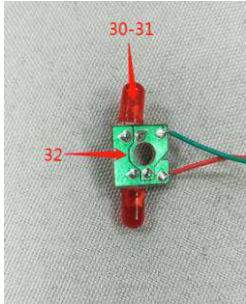
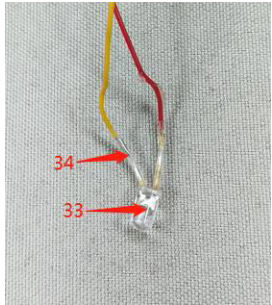
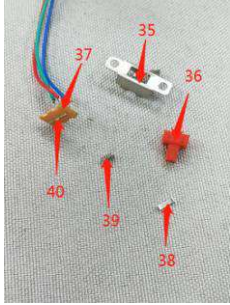
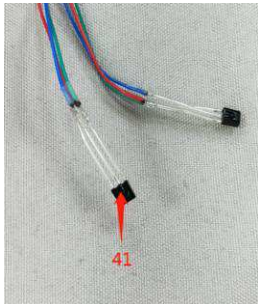
**Photo of the Submitted Sample**

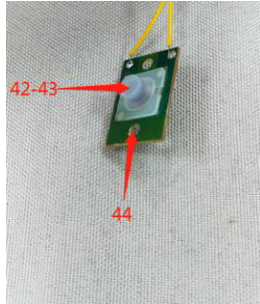
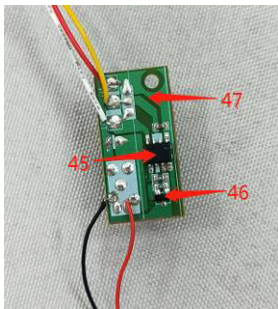
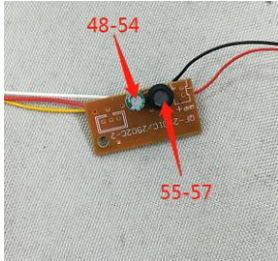
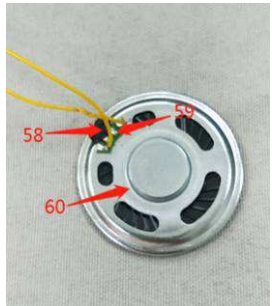



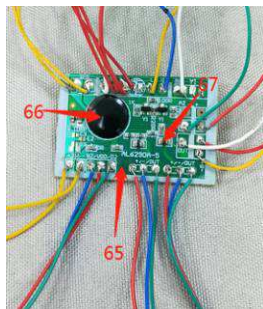
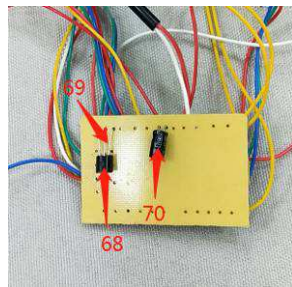
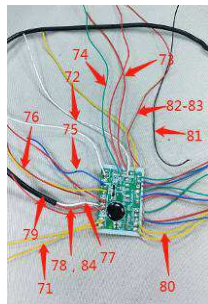
**Component Description List**

Test Item(s)	Description	Location	Photo
I001	Red PVC	Foreleg	
I002	Dark red plastic	Shell	
I003	Red PVC	Head	
I004	Dark red PVC	Neck	
I005	Red PVC	Wings	
I006	Black PVC	Head plug	
I007	White plastic	Tooth/neck	
I008	Dark purple plastic	Tongue 舌头	
I009	Silvery metal	Battery box contact chip	
I010	Silvery metal	Battery box spring	
I011	Transparent plastic	Screw gasket	
I012	Transparent white solid	Glue	
I013	Silvery metal	Metal block	
I014	Brown plastic	Nut cover	
I015	Silvery solder	Solder	

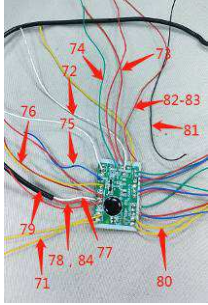
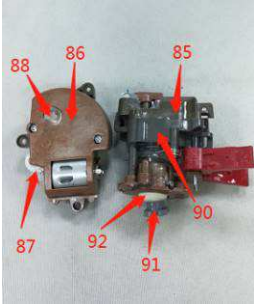
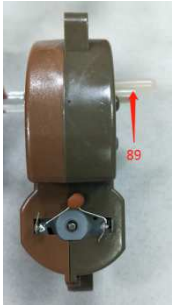

Test Item(s)	Description	Location	Photo
I016	Silvery metal	Tooth fixing shaft	
I017	Silvery metal	Tooth fixing shaft spring	
I018	Transparent brown plastic	LED light lampshade	
I019	Red brown plastic	Plastic parts	
I020	Taupe plastic	Tail expansion link	
I021	Silvery metal	Tail expansion link	
I022	Red plastic	Wheel	
I023	Silvery metal	Wheel axle	
I024	Silvery metal	Torsional spring	
I025	Transparent plastic	Hind leg inner plastic parts	
I026	White soft plastic	Atomizer plate case	
I027	Silvery metal	Atomizer plate	
I028	White /black ceramic	Atomizer plate	
I029	White solid	Glue	

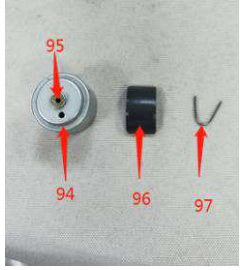
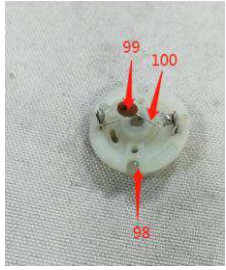

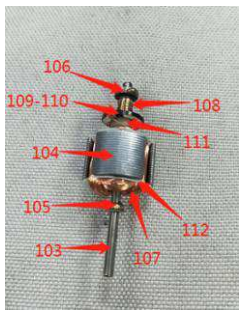
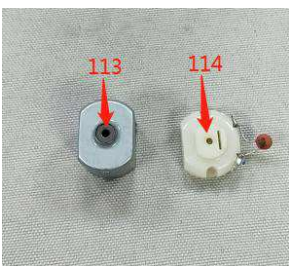
Test Item(s)	Description	Location	Photo
I030	Transparent red plastic	LED light	
I031	Silvery metal	LED light pin	
I032	Green/white printed brown PCB	LED light PCB	
I033	Transparent plastic	LED light	
I034	Transparent soft plastic	Sleeve	
I035	Silvery metal	Toggle switch frame	
I036	Orange red plastic	Toggle switch button	
I037	Brown plastic	Toggle switch base	
I038	Silvery metal	Toggle switch slip sheet	
I039	Silvery metal	Toggle switch spring	
I040	Silvery metal	Toggle switch pin	
I041	Black plastic	Infrared lamp	


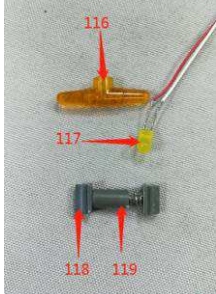

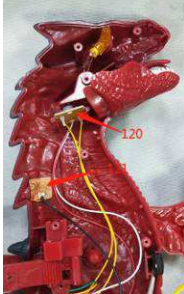
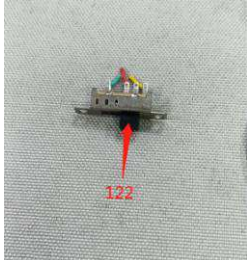
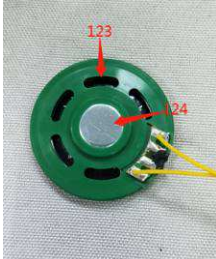
Test Item(s)	Description	Location	Photo
I042	Translucent white plastic	Tact switch button	
I043	Black soft plastic	Tact switch button bottom	
I044	Green/white printed brown PCB	Tact switch PCB	
I045	Black IC body	IC	
I046	Black audion body	Audion	
I047	Green/white printed brown PCB	Min PCB	
I048	White printed green plastic	Electrolytic capacitor jacket	
I049	Silvery metal	Electrolytic capacitor shell	
I050	Black soft plastic	Electrolytic capacitor plug	
I051	Brown paper with liquid	Electrolytic capacitor filler	
I052	Grey foil	Electrolytic capacitor filler	
I053	Silvery grey foil	Electrolytic capacitor filler	
I054	Silvery metal	Electrolytic capacitor pin	
I055	Black soft plastic	Inductor jacket	
I056	Dark grey inductor body	Inductor	
I057	Coppery metal	Inductor coil	
I058	Black solid	Glue	
I059	Green PCB	Speaker PCB	
I060	Silvery metal	Speaker case	

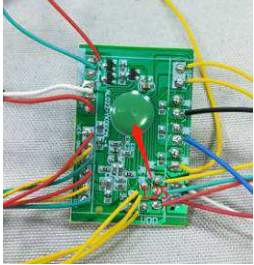

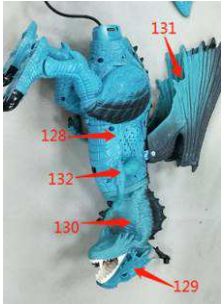
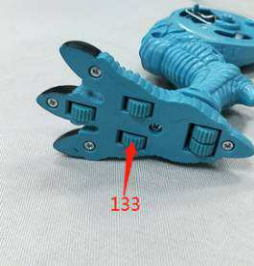
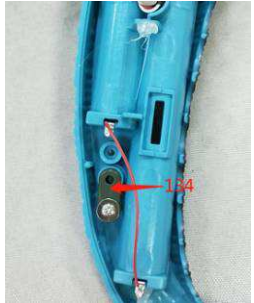
Test Item(s)	Description	Location	Photo
I061	Black plastic	Speaker O ring	
I062	Black plastic	Speaker film	
I063	Coppery metal	Speaker coil	
I064	Silvery magnetic	Speaker magnetic	
I065	Green/white printed yellow PCB	Main PCB	
I066	Black solid	Heat sealing glue	
I067	Dark brown capacitor	Capacitor	
I068	Black plastic	IC body	
I069	Silvery metal	IC pin	
I070	White printed black plastic	Electrolytic capacitor jacket	
I071	Black printed yellow PVC	Wire jacket	
I072	Black printed white PVC	Wire jacket	
I073	Red PVC	Wire jacket	
I074	Green PVC	Wire jacket	
I075	Blue PVC	Wire jacket	
I076	Black printed dark red PVC	Wire jacket	
I077	White PVC	Wire jacket	
I078	Light red PVC	Wire jacket	
I079	Black PVC	Wire jacket (thick)	
I080	Yellow PVC	Wire jacket	
I081	Black PVC	Wire jacket (thin)	
I082	Red PVC	Wire jacket (thin)	
I083	Coppery metal	Wire core	


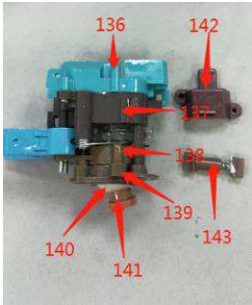
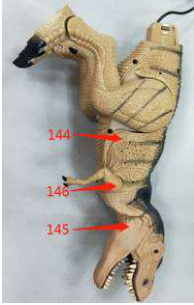



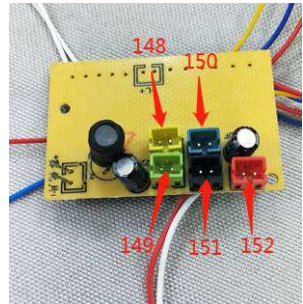
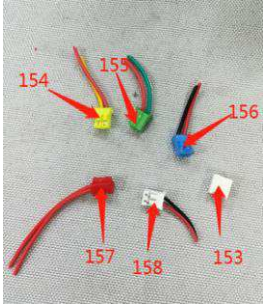
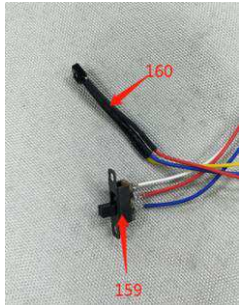

Test Item(s)	Description	Location	Photo
I084	Silvery metal	Wire core	
I085	Green brown plastic	Gear case	
I086	Red brown plastic	Motor case	
I087	White plastic	Gear	
I088	Translucent white plastic	Gear axle	
I089	Transparent plastic	Gear axle	
I090	Grey brown plastic	Gear case	
I091	Grey plastic	Connector	
I092	Beige yellow plastic	Ball	
I093	Silvery metal	Axle	

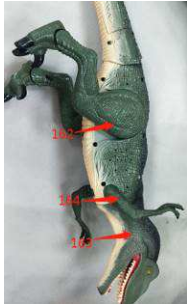


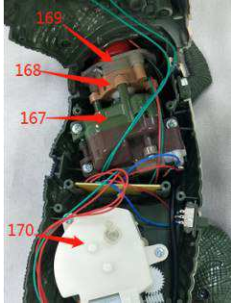
Test Item(s)	Description	Location	Photo
I094	White grey metal	Motor case	
I095	Golden metal	Motor bearing	
I096	Black magnet	Motor magnet	
I097	Grey metal	Motor U iron	
I098	Beige white plastic	Motor endbell	
I099	Brown resistor body	Motor resistor	
I100	Silvery metal	Motor resistor pin	
I101	Golden metal	Motor pin	
I102	Coppery metal	Motor brush	
I103	Silvery metal	Motor shaft	
I104	Silvery metal	Motor metal plate	
I105	Golden metal	Motor O ring	
I106	Coppery metal	Motor O ring	
I107	Coppery metal	Motor coil	
I108	Coppery metal	Motor steering gear	
I109	Red paper	Motor steering gear	
I110	Black /white ceramic	Motor steering gear	
I111	Beige plastic	Motor steering gear	
I112	White plastic	Motor insulation board	
I113	Grey metal	Small motor bearing	
I114	White plastic	Small motor endbell	

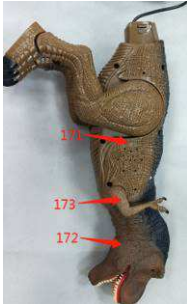
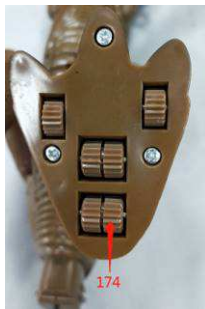
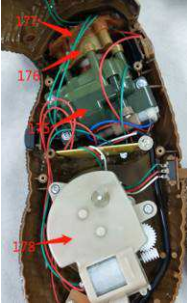

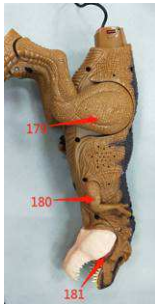
Test Item(s)	Description	Location	Photo
I115	Light brown plastic	Nut cover	
I116	Transparent orange plastic	Eyes	
I117	Transparent yellow plastic	LED light	
I118	Grey plastic	Tail expansion link	
I119	Light grey plastic	Tail expansion link	
I120	Coppery metal with adhesive	Coppery foil	
I121	Green/white printed light brown PCB	Tact switch PCB	
I122	Black plastic	Toggle switch button	
I123	Green plastic	Speaker case	
I124	Silvery metal	Speaker case	

Test Item(s)	Description	Location	Photo
I125	Green solid	Heat sealing glue	
I126	Dark brown plastic	Motor case	
I127	Light brown plastic	Motor case	
I128	Blue plastic	Shell	
I129	Blue PVC	Head	
I130	Blue PVC	Neck	
I131	Blue PVC	Wings	
I132	Blue PVC	Foreleg	
I133	Blue plastic	Wheel	
I134	Green plastic	Nut cover	

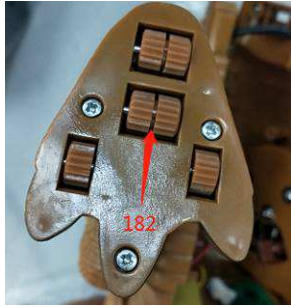
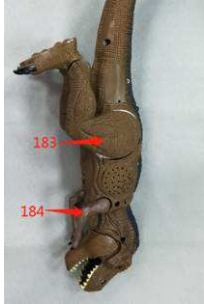
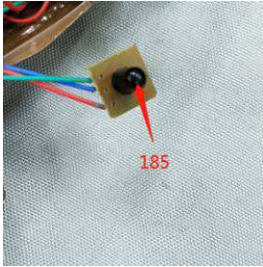
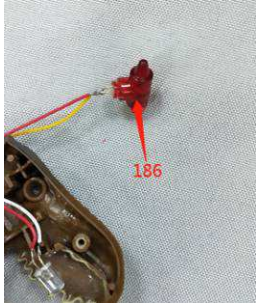
Test Item(s)	Description	Location	Photo
I135	White plastic	Plastic parts	
I136	Cyan plastic	Gear case	
I137	Grey plastic	Gear case	
I138	Olive green plastic	Gear case	
I139	Grey green plastic	Gear case	
I140	White plastic	Ball	
I141	Dark orange plastic	Connector	
I142	Liver-coloured plastic	Plastic parts	
I143	Tan plastic	Tail expansion link	
I144	Khaki plastic	Shell	
I145	Khaki PVC	Neck	
I146	Khaki PVC	Foreleg	
I147	Dark khaki plastic	Wheel	

Test Item(s)	Description	Location	Photo
I148	Yellow plastic	Terminal socket	
I149	Light green plastic	Terminal socket	
I150	Blue plastic	Terminal socket	
I151	Black plastic	Terminal socket	
I152	Red plastic	Terminal socket	
I153	Beige white plastic	Terminal socket	
I154	Yellow plastic	Terminal	
I155	Light green plastic	Terminal	
I156	Blue plastic	Terminal	
I157	Red plastic	Terminal	
I158	White plastic	Terminal	
I159	Grey metal	Toggle switch frame	
I160	White printed black soft plastic	Sleeve	
I161	Army green plastic	Gear case	

Test Item(s)	Description	Location	Photo
I162	Dark green plastic	Shell	
I163	Dark green PVC	Neck	
I164	Dark green PVC	Foreleg	
I165	Black plastic	LED light lampshade	
I166	Green plastic	Wheel	
I167	Grass green plastic	Gear case	
I168	Orange brown plastic	Gear case	
I169	Mouse grey plastic	Gear case	
I170	White plastic	Motor case	

Test Item(s)	Description	Location	Photo
I171	Brown plastic	Shell	
I172	Brown PVC	Neck	
I173	Brown PVC	Foreleg	
I174	Dark brown plastic	Wheel	
I175	Dark green plastic	Gear case	
I176	Dark yellow plastic	Gear case	
I177	Chocolate plastic	Gear case	
I178	Beige grey plastic	Motor case	
I179	Light brown plastic	Shell	
I180	Light brown PVC	Foreleg	
I181	Indian red plastic	Tongue	



Test Item(s)	Description	Location	Photo
I182	Orange brown plastic	Wheel	
I183	Dark brown plastic	Shell	
I184	Dark brown PVC	Foreleg	
I185	Black plastic	LED light	
I186	Transparent red plastic	Eyes	

Test Item(s)	Description	Location	Photo
I187	Green /white printed brown PCB	Main PCB	
I188	Green printed light brown PCB	LED light PCB	
I189	Black magnet	Speaker magnet	
I190	Silvery metal	Speaker magnet holder	
I191	Silvery metal	Speaker magnet gasket	
I192	Green /white printed brown PCB	Remote control PCB	
I193	Black IC	Remote control PCB	



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Test Item(s)	Description	Location	Photo
I194	Silvery white metal	Big screw	
I195	Silvery white metal	Middle screw	
I196	Silvery white metal	Small screw	
I197	Silvery white metal	Screw	
I198	Silvery white metal	Short screw	
I199	Silvery metal	Big screw	
I200	Silvery metal	Small screw	
I201	Silvery metal	Nut	



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**TEST RESULT**

**1.1. Screening Test for the Certain Hazardous Substances of RoHS**

- Heavy Metal (Lead, Cadmium, Mercury, Chromium) Content Test

- Bromine Content Test

Test Method: IEC62321-3-1:2013, and Quantification Analyzed with Energy Dispersive X-ray Fluorescence Spectrometers.

Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion
Test Item(s)	Result (mg/kg)					
I001	BL	BL	BL	BL	BL	PASS
I002	BL	BL	BL	BL	BL	PASS
I003	BL	BL	BL	BL	BL	PASS
I004	BL	BL	BL	BL	BL	PASS
I005	BL	BL	BL	BL	BL	PASS
I006	BL	BL	BL	BL	BL	PASS
I007	BL	BL	BL	BL	BL	PASS
I008	BL	BL	BL	BL	BL	PASS
I009	BL	BL	BL	IN	N.A.	-
I010	BL	BL	BL	BL	N.A.	PASS
I011	BL	BL	BL	BL	BL	PASS
I012	BL	BL	BL	BL	BL	PASS
I013	BL	BL	BL	BL	N.A.	PASS
I014	BL	BL	BL	BL	BL	PASS
I015	BL	BL	BL	BL	N.A.	PASS
I016	BL	BL	BL	BL	N.A.	PASS
I017	BL	BL	BL	BL	N.A.	PASS
I018	BL	BL	BL	BL	BL	PASS
I019	BL	BL	BL	BL	BL	PASS
I020	BL	BL	BL	BL	BL	PASS
I021	BL	BL	BL	BL	N.A.	PASS
I022	BL	BL	BL	BL	BL	PASS
I023	BL	BL	BL	BL	N.A.	PASS
I024	BL	BL	BL	BL	N.A.	PASS
I025	BL	BL	BL	BL	BL	PASS
I026	BL	BL	BL	BL	BL	PASS
I027	BL	BL	BL	IN	N.A.	-
I028	OL	BL	BL	BL	BL	EXEMPTED
I029	BL	BL	BL	BL	BL	PASS
I030	BL	BL	BL	BL	IN	-



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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion
Test Item(s)	Result (mg/kg)					
I031	BL	BL	BL	BL	N.A.	PASS
I032	BL	BL	BL	BL	BL	PASS
I033	BL	BL	BL	BL	IN	-
I034	BL	BL	BL	BL	BL	PASS
I035	BL	BL	BL	BL	N.A.	PASS
I036	BL	BL	BL	BL	BL	PASS
I037	BL	BL	BL	BL	BL	PASS
I038	BL	BL	BL	BL	N.A.	PASS
I039	BL	BL	BL	BL	N.A.	PASS
I040	BL	BL	BL	BL	N.A.	PASS
I041	BL	BL	BL	BL	IN	-
I042	BL	BL	BL	BL	BL	PASS
I043	BL	BL	BL	BL	BL	PASS
I044	BL	BL	BL	BL	BL	PASS
I045	BL	BL	BL	BL	BL	PASS
I046	BL	BL	BL	BL	BL	PASS
I047	BL	BL	BL	BL	BL	PASS
I048	BL	BL	BL	BL	BL	PASS
I049	BL	BL	BL	BL	N.A.	PASS
I050	BL	BL	BL	BL	BL	PASS
I051	BL	BL	BL	BL	BL	PASS
I052	BL	BL	BL	BL	BL	PASS
I053	BL	BL	BL	BL	BL	PASS
I054	BL	BL	BL	BL	N.A.	PASS
I055	BL	BL	BL	BL	BL	PASS
I056	BL	BL	BL	BL	BL	PASS
I057	BL	BL	BL	BL	N.A.	PASS
I058	BL	BL	BL	BL	BL	PASS
I059	BL	BL	BL	BL	IN	-
I060	BL	BL	BL	IN	N.A.	-
I061	BL	BL	BL	BL	IN	-
I062	BL	BL	BL	BL	BL	PASS
I063	BL	BL	BL	BL	N.A.	PASS
I064	BL	BL	BL	BL	N.A.	PASS
I065	BL	BL	BL	BL	IN	-
I066	BL	BL	BL	BL	BL	PASS
I067	OL	BL	BL	BL	BL	EXEMPTED
I068	BL	BL	BL	BL	IN	-



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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion
Test Item(s)	Result (mg/kg)					
I069	BL	BL	BL	BL	N.A.	PASS
I070	BL	BL	BL	BL	BL	PASS
I071	BL	BL	BL	BL	BL	PASS
I072	BL	BL	BL	BL	BL	PASS
I073	BL	BL	BL	BL	BL	PASS
I074	BL	BL	BL	BL	BL	PASS
I075	BL	BL	BL	BL	BL	PASS
I076	BL	BL	BL	BL	BL	PASS
I077	BL	BL	BL	BL	BL	PASS
I078	BL	BL	BL	BL	BL	PASS
I079	BL	BL	BL	BL	BL	PASS
I080	BL	BL	BL	BL	BL	PASS
I081	BL	BL	BL	BL	BL	PASS
I082	BL	BL	BL	BL	BL	PASS
I083	BL	BL	BL	BL	N.A.	PASS
I084	BL	BL	BL	BL	N.A.	PASS
I085	BL	BL	BL	BL	BL	PASS
I086	BL	BL	BL	BL	BL	PASS
I087	BL	BL	BL	BL	BL	PASS
I088	BL	BL	BL	BL	BL	PASS
I089	BL	BL	BL	BL	BL	PASS
I090	BL	BL	BL	BL	BL	PASS
I091	BL	BL	BL	BL	BL	PASS
I092	BL	BL	BL	BL	BL	PASS
I093	BL	BL	BL	<b>IN</b>	N.A.	-
I094	BL	BL	BL	BL	N.A.	PASS
I095	BL	BL	BL	BL	N.A.	PASS
I096	BL	BL	BL	<b>IN</b>	N.A.	-
I097	BL	BL	BL	BL	N.A.	PASS
I098	BL	BL	BL	BL	BL	PASS
I099	BL	BL	BL	BL	BL	PASS
I100	BL	BL	BL	BL	N.A.	PASS
I101	BL	BL	BL	BL	N.A.	PASS
I102	BL	BL	BL	BL	N.A.	PASS
I103	BL	BL	BL	BL	N.A.	PASS
I104	BL	BL	BL	<b>IN</b>	N.A.	-
I105	BL	BL	BL	BL	N.A.	PASS
I106	BL	BL	BL	BL	N.A.	PASS



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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion
Test Item(s)	Result (mg/kg)					
I107	BL	BL	BL	BL	N.A.	PASS
I108	BL	BL	BL	BL	N.A.	PASS
I109	BL	BL	BL	BL	BL	PASS
I110	BL	BL	BL	BL	BL	PASS
I111	BL	BL	BL	BL	BL	PASS
I112	BL	BL	BL	BL	BL	PASS
I113	BL	BL	BL	BL	BL	PASS
I114	BL	BL	BL	BL	BL	PASS
I115	BL	BL	BL	BL	BL	PASS
I116	BL	BL	BL	BL	BL	PASS
I117	BL	BL	BL	BL	IN	-
I118	BL	BL	BL	BL	BL	PASS
I119	BL	BL	BL	BL	BL	PASS
I120	BL	BL	BL	BL	N.A.	PASS
I121	BL	BL	BL	BL	BL	PASS
I122	BL	BL	BL	BL	BL	PASS
I123	BL	BL	BL	BL	BL	PASS
I124	BL	BL	BL	BL	N.A.	PASS
I125	BL	BL	BL	BL	BL	PASS
I126	BL	BL	BL	BL	BL	PASS
I127	BL	BL	BL	BL	BL	PASS
I128	BL	BL	BL	BL	BL	PASS
I129	BL	BL	BL	BL	BL	PASS
I130	BL	BL	BL	BL	BL	PASS
I131	BL	BL	BL	BL	BL	PASS
I132	BL	BL	BL	BL	BL	PASS
I133	BL	BL	BL	BL	BL	PASS
I134	BL	BL	BL	BL	BL	PASS
I135	BL	BL	BL	BL	BL	PASS
I136	BL	BL	BL	BL	BL	PASS
I137	BL	BL	BL	BL	BL	PASS
I138	BL	BL	BL	BL	BL	PASS
I139	BL	BL	BL	BL	BL	PASS
I140	BL	BL	BL	BL	BL	PASS
I141	BL	BL	BL	BL	BL	PASS
I142	BL	BL	BL	BL	BL	PASS
I143	BL	BL	BL	BL	BL	PASS
I144	BL	BL	BL	BL	BL	PASS



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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion
Test Item(s)	Result (mg/kg)					
I145	BL	BL	BL	BL	BL	PASS
I146	BL	BL	BL	BL	BL	PASS
I147	BL	BL	BL	BL	BL	PASS
I148	BL	BL	BL	BL	IN	-
I149	BL	BL	BL	BL	IN	-
I150	BL	BL	BL	BL	IN	-
I151	BL	BL	BL	BL	IN	-
I152	BL	BL	BL	BL	IN	-
I153	BL	BL	BL	BL	IN	-
I154	BL	BL	BL	BL	BL	PASS
I155	BL	BL	BL	BL	BL	PASS
I156	BL	BL	BL	BL	BL	PASS
I157	BL	BL	BL	BL	BL	PASS
I158	BL	BL	BL	BL	BL	PASS
I159	BL	BL	BL	BL	N.A.	PASS
I160	BL	BL	BL	BL	BL	PASS
I161	BL	BL	BL	BL	BL	PASS
I162	BL	BL	BL	BL	BL	PASS
I163	BL	BL	BL	BL	BL	PASS
I164	BL	BL	BL	BL	BL	PASS
I165	BL	BL	BL	BL	BL	PASS
I166	BL	BL	BL	BL	BL	PASS
I167	BL	BL	BL	BL	BL	PASS
I168	BL	BL	BL	BL	BL	PASS
I169	BL	BL	BL	BL	BL	PASS
I170	BL	BL	BL	BL	BL	PASS
I171	BL	BL	BL	BL	BL	PASS
I172	BL	BL	BL	BL	BL	PASS
I173	BL	BL	BL	BL	BL	PASS
I174	BL	BL	BL	BL	BL	PASS
I175	BL	BL	BL	BL	BL	PASS
I176	BL	BL	BL	BL	BL	PASS
I177	BL	BL	BL	BL	BL	PASS
I178	BL	BL	BL	BL	BL	PASS
I179	BL	BL	BL	BL	BL	PASS
I180	BL	BL	BL	BL	BL	PASS
I181	BL	BL	BL	BL	BL	PASS
I182	BL	BL	BL	BL	BL	PASS





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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion
Test Item(s)	Result (mg/kg)					
I183	BL	BL	BL	BL	BL	PASS
I184	BL	BL	BL	BL	BL	PASS
I185	BL	BL	BL	BL	<b>IN</b>	-
I186	<b>IN</b>	BL	BL	BL	BL	-
I187	BL	BL	BL	BL	BL	PASS
I188	BL	BL	BL	BL	BL	PASS
I189	BL	BL	BL	BL	N.A.	PASS
I190	BL	BL	BL	<b>IN</b>	N.A.	-
I191	BL	BL	BL	<b>IN</b>	N.A.	-
I192	BL	BL	BL	BL	BL	PASS
I193	BL	BL	BL	BL	BL	PASS
I194	BL	BL	BL	<b>IN</b>	N.A.	-
I195	BL	BL	BL	BL	N.A.	PASS
I196	BL	BL	BL	<b>IN</b>	N.A.	-
I197	BL	BL	BL	<b>IN</b>	N.A.	-
I198	BL	BL	BL	BL	N.A.	PASS
I199	BL	BL	BL	BL	N.A.	PASS
I200	BL	BL	BL	BL	N.A.	PASS
I201	BL	BL	BL	BL	N.A.	PASS

Remark:

- #According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(c)-I is reiterated here "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezo electronic devices, or in a glass or ceramic matrix compound". Test Item(s) 28, 67 was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
- The above results was performed at a Bureau Veritas CPS approved subcontract lab.



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**Note:**

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %
2. "OL" denotes "over limit" ; "BL" denotes "below limit" ; "N.A." denotes "Not Applicable" ; "IN" denotes "Inconclusive" , thus further confirmation test was conducted, results are listed in 1.2 and 1.3.
3. PBBs&PBDEs were evaluated by Bromine content of XRF screening.
4. According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(c)-I is reiterated here "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezo electronic devices, or in a glass or ceramic matrix compound". Test Item(s) < I028,I067> was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
5. XRF screening limits for different materials:

Element	Polymers	Metal	Composite material
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
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	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$



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### 1.2. Test for Heavy Metals

- Lead, Cadmium and Chromium Content Tests according to IEC 62321-5:2013.
- Mercury Content Test according to IEC 62321-4:2013/AMD1:2017.
- Chromium VI Content in Metal Test according to IEC 62321-7-1:2015.
- Chromium VI Content in Polymers and Electronic Test according to IEC 62321-7-2:2017.

Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	Conclusion
Detection Limit	10	10	10	10 / Δ	
Requirements	1000	100	1000	1000 / Negative	
Test Item(s)	Result (mg/kg)				
I009	/	/	/	Negative	PASS
I027	/	/	/	Negative	PASS
I060	/	/	/	Negative	PASS
I093	/	/	/	Negative	PASS
I096	/	/	/	Negative	PASS
I104	/	/	/	Negative	PASS
I186	645	/	/	/	PASS
I190	/	/	/	Negative	PASS
I191	/	/	/	Negative	PASS
I194	/	/	/	Negative	PASS
I196	/	/	/	Negative	PASS
I197	/	/	/	Negative	PASS

**Note:**

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.
2. "N.D." = "Not Detected".
3. "Δ" = Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1)(less than 0.10µg/cm<sup>2</sup>). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1)(greater than 0.13µg/cm<sup>2</sup>).



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1.3. **Test for Flame Retardants**

Test Method: IEC62321-6:2015, Analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Analyte		Result (mg/kg)					Requirement (mg/kg)
		I030	I033	I041	I059	I061	
PBBs	Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBBs < 1000
	Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	
PBDEs	Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Heptabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.	
<b>Conclusion</b>		PASS	PASS	PASS	PASS	PASS	-

Analyte		Result (mg/kg)					Requirement (mg/kg)
		I065	I068	I117	I148	I149	
PBBS	Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBBS < 1000
	Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBBS	N.D.	N.D.	N.D.	N.D.	N.D.	
PBDEs	Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Heptabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.	
<b>Conclusion</b>		PASS	PASS	PASS	PASS	PASS	-

Analyte		Result (mg/kg)					Requirement (mg/kg)
		I150	I151	I152	I153	I185	
PBBs	Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBBs < 1000
	Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	
PBDEs	Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Heptabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.	
<b>Conclusion</b>		PASS	PASS	PASS	PASS	PASS	-

Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.
2. MDL= Detection Limit = 50mg/kg.
3. "N.D." = "Not Detected".



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2. **Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863**

Test Method: IEC 62321-8:2017, Analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I001+I003+I004	I002+I007+I008	I005+I006+I026	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I011+I014+I018	I012+I029+I058	I019+I020+I022	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I025+I030+I033	I032+I044+I047	I034+I042+I043	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-



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Analyte	Result (mg/kg)			Requirement (mg/kg)
	I036+I037+I041	I048+I050+I055	I051+I109	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	70	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I059+I065+I121	I061+I062+I068	I066+I125	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I070+I071+I072	I073+I074+I075	I076+I077+I078	
Dibutyl phthalate (DBP)	N.D.	100	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	80	60	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I079+I080+I081	I082+I129+I130	I085+I086+I087	
Dibutyl phthalate (DBP)	60	70	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-





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Analyte	Result (mg/kg)			Requirement (mg/kg)
	I088+I089+I090	I091+I092+I098	I111+I112+I114	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I115+I116+I117	I118+I119+I122	I123+I126+I127	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I128+I133+I134	I131+I132+I145	I135+I136+I137	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I138+I139+I140	I141+I142+I143	I144+I147+I148	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-



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Analyte	Result (mg/kg)			Requirement (mg/kg)
	I146+I160+I163	I149+I150+I151	I152+I153+I154	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I155+I156+I157	I158+I161+I162	I164+I172+I173	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I165+I166+I167	I168+I169+I170	I171+I174+I175	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I176+I177+I178	I179+I181+I182	I183+I185+I186	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	220	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	PASS	-



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Analyte	Result (mg/kg)		Requirement (mg/kg)
	I180+I184	I187+I188+I192	
Dibutyl phthalate (DBP)	110	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	1000
<b>Conclusion</b>	PASS	PASS	-

Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.
2. MDL= Detection Limit = 50mg/kg.
3. "N.D." = "Not Detected".
4. Results shown are of the total weight of mixed samples.

Remark:

- The above results was performed at a Bureau Veritas CPS approved subcontract lab.

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