



Test Report

Report No.: CX/2017/40077

Date: 2017/05/02

HIWIN MIKROSYSTEM CORP.
NO. 6, JINGKE RD., NANTUN DISTRICT, TAICHUNG CITY 40852, TAIWAN


The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By : HIWIN MIKROSYSTEM CORP.
Sample Description : DRIVE
Style/Item No. : D2T-20XX-X-XX-X
Sample Receiving Date : 2017/04/11
Testing Period : 2017/04/11 to 2017/04/28

Test Result(s) : Please refer to following pages.

Conclusion : Based upon the performed tests on submitted samples, the test results comply with the limits of RoHS Directive 2011/65/EU and amending Directive (EU) 2015/863 with the exempted materials below according to the declaration from applicant:

1. ELECTRONIC COMPONENT (No.2.1.13) in Table 1: Lead (Pb)
("7(c)- I , Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound" in Directive 2011/65/EU)
2. SILVERY METALLIC NUT (No.2.2.2) in Table 1: Lead (Pb)
("6(c), Copper alloy containing up to 4 % lead by weight" in Directive 2011/65/EU)
3. ELECTRONIC COMPONENT (No.3.10) in Table 1: Lead (Pb)
("7(a), Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)" in Directive 2011/65/EU)


Wendy Wei
Wendy Wei Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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1. Material Fraction Composition

Table 1 The results of XRF screening and chemical test (Unit: mg/kg)

<div></div>													
No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
1	CASE <div></div>	1.1	BLACK PLASTIC COVER		Polymers	Pb	n.d.		---		Refer to Table 2		
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	76800						
						Cr(VI)		---		n.d.			
						PBB			n.d.				
		1.2	SILVERY METALLIC FRAME		Metals	Pb	195		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	194						
						Br	n.d.						
						Cr(VI)							---
						PBB							---
	1.3	SILVERY METALLIC SHEET		Metals	Pb	n.d.		---			*5		
					Cd	n.d.		---					
					Hg	n.d.		---					
					Cr	865							
					Br	n.d.		n.d.					---
					Cr(VI)							---	
					PBB							---	
					PBDE							---	






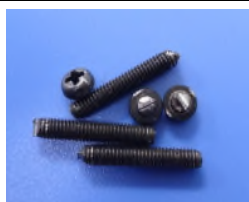
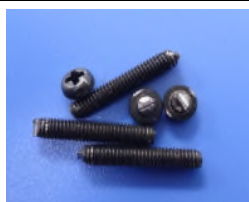
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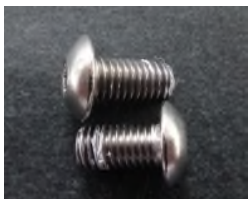



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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
1	CASE	1.4	TRANSPARENT PLASTIC SHEET		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							---
						PBB							---
						PBDE							---
		1.5	SILVERY METALLIC SCREW		Metals	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							---
						PBB							---
						PBDE							---
		1.6	SILVERY METALLIC SCREW		Metals	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							---
						PBB							---
						PBDE							---
	1.7	BLACK METALLIC SCREW		Metals	Pb	n.d.		---					
					Cd	n.d.		---					
					Hg	n.d.		---					
					Cr	221							
					Br	n.d.							
					Cr(VI)							---	
					PBB							---	
					PBDE							---	

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
1	CASE	1.8	BRASS METALLIC SCREW		Metals	Pb	297		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		
		1.9	SILVERY METALLIC SCREW		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	182000					
						Br	n.d.					
						Cr(VI)		n.d.				
						PBB				---		
						PBDE				---		
		1.10	SILVERY METALLIC COVER		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		
		1.11	YELLOW POWDER		Composite Material	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
1	CASE	1.12	WHITE PLASTIC TUBE		Polymers	Pb	n.d.		---		Refer to Table 2	
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	118					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		
		1.13	BLACK PLASTIC JACKET		Polymers	Pb	n.d.		---		Refer to Table 2	
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		
		1.14	SILVERY METALLIC WIRE		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		
		1.15	SILVERY METALLIC SCREW		Metals	Pb	n.d.		---			*5
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	557					
						Br	n.d.					
						Cr(VI)		n.d.				
						PBB				---		
						PBDE				---		







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						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
1	CASE	1.16	SILVERY METALLIC WASHER		Metals	Pb	737		n.d.				
	Cd					n.d.	---						
	Hg					n.d.	---						
	Cr					n.d.							
	Br					n.d.							
	Cr(VI)								---				
	PBB								---				
	PBDE												
		1.17	SILVERY METALLIC RING		Metals	Pb	377		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)				---			
						PBB				---			
	PBDE												
		1.18	SILVERY METALLIC WASHER		Metals	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	390						
						Br	n.d.						
						Cr(VI)				---			
						PBB				---			
		PBDE											
			1.19	SILVERY METALLIC SCREW		Metals	Pb	n.d.		---			*5
							Cd	n.d.		---			
							Hg	n.d.		---			
							Cr	613					
Br							n.d.						
Cr(VI)										n.d.			
PBB	---												
PBDE													







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						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
1	CASE	1.20	SILVERY METALLIC RING		Metals	Pb	806		n.d.			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.		---			
		1.21	SILVERY METALLIC WASHER		Metals	Br	n.d.	n.d.				*5
						Cr(VI)						
						PBB						
						PBDE						
		1.22	SILVERY METALLIC LEAF SPRING		Metals	Pb	n.d.	n.d.	---			*5
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	178000		---			
						Br	n.d.					
						Cr(VI)						
						PBB						
						PBDE						
		1.23	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.	---	---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.		---			
						Br	49100					
						Cr(VI)						
						PBB						
						PBDE						

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
1	CASE	1.24	SILVERY METALLIC PIN		Metals	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		
		1.25	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.	---	---	---	Refer to Table 2	
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	49500					
						Cr(VI)				n.d.		
						PBB				n.d.		
						PBDE						
		1.26	BLACK PLASTIC TUBE		Polymers	Pb	n.d.	---	---	---	Refer to Table 2	
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)				---		
						PBB				---		
						PBDE				---		
		1.27	CABLE		Composite Material	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)				---		
						PBB				---		
						PBDE				---		

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note		
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE				
2	PCBA	2.1.1	PCBA		Composite Material	Pb	---		4.44		Refer to Table 2			
	Cd					---	n.d.							
	Hg					---	n.d.							
	Cr					---								
	Br					---	n.d.		n.d.					
	Cr(VI)													
	PBB													
	PBDE													
		2.1.2	SILVERY METALLIC STICK		Metals	Pb	124		---					
						Cd	n.d.		---					
						Hg	n.d.		---					
						Cr	n.d.							
						Br	n.d.	---		---				
						Cr(VI)								
						PBB								
						PBDE								
		2.1.3	BLACK PLASTIC TUBE		Polymers	Pb	n.d.		---					
						Cd	n.d.		---					
						Hg	n.d.		---					
						Cr	68.0							
						Br	146900	---		n.d.				
						Cr(VI)								
						PBB								
						PBDE								
		2.1.4	BLACK FILM WITH ADHESIVE		Polymers	Pb	n.d.		---					
						Cd	n.d.		---					
						Hg	n.d.		---					
						Cr	n.d.							
						Br	25700	---		n.d.				
						Cr(VI)								
						PBB								
						PBDE								








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						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.1.5	WHITE GLUE		Polymers	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	78.0					
						Br	66500					
						Cr(VI)						
						PBB						
						PBDE						
		2.1.6	BROWN PLASTIC CAP		Polymers	Pb	n.d.	---	---	---	Refer to Table 2	
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB						
						PBDE						
		2.1.7	SILVERY METALLIC RING		Metals	Pb	119	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	112					
						Br	n.d.					
						Cr(VI)						
						PBB						
						PBDE						
		2.1.8	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB						
						PBDE						

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						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.1.9	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
		2.1.10	ELECTRONIC COMPONENT		Composite Material	Br	n.d.					
						Cr(VI)						
						PBB						
						PBDE						
		2.1.11	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	41800					
		2.1.12	ELECTRONIC COMPONENT		Composite Material	Br	n.d.					
						Cr(VI)						
						PBB						
						PBDE						

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						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
2	PCBA	2.1.13	ELECTRONIC COMPONENT		Composite Material	Pb	6560	n.d.	*2				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	6980						
						Br	n.d.						
						Cr(VI)							---
						PBB							---
	PBDE		---										
		2.1.14	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)			---				
						PBB							---
	PBDE		---										
		2.1.15	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)			---				
						PBB							---
	PBDE		---										
	2.1.16	WHITE PLASTIC HOUSING		Polymers	Pb	n.d.		---					
					Cd	n.d.		---					
					Hg	n.d.		---					
					Cr	n.d.							
					Br	n.d.							
					Cr(VI)			---					
					PBB							---	
PBDE		---											

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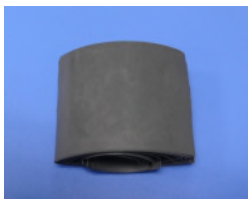





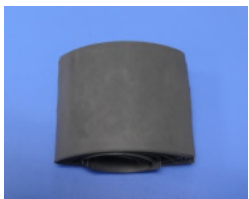



No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.1.17	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
		2.1.18	BLACK PLASTIC HOUSING		Polymers	Hg	n.d.		---			
						Cr	n.d.		---			
		2.1.19	WHITE PLASTIC TUBE		Polymers	Br	64900				n.d.	Refer to Table 2
						Cr(VI)						
		2.1.20	BLACK PLASTIC JACKET		Polymers	PBB					n.d.	
						PBDE						
		2.1.17	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
		2.1.18	BLACK PLASTIC HOUSING		Polymers	Hg	n.d.		---			
						Cr	n.d.		---			
		2.1.19	WHITE PLASTIC TUBE		Polymers	Br	343				n.d.	
						Cr(VI)						
		2.1.20	BLACK PLASTIC JACKET		Polymers	PBB					n.d.	
						PBDE						
		2.1.17	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
		2.1.18	BLACK PLASTIC HOUSING		Polymers	Hg	n.d.		---			
						Cr	137		---			
		2.1.19	WHITE PLASTIC TUBE		Polymers	Br	139000				n.d.	
						Cr(VI)						
		2.1.20	BLACK PLASTIC JACKET		Polymers	PBB					n.d.	
						PBDE						

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.1.21	SILVERY METALLIC WIRE		Metals	Pb	n.d.	---	---	---		
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
		2.1.22	ORANGE PLASTIC COVER		Polymers	Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		
		2.1.23	BLACK POLYMER JACKET WITH WHITE PRINT		Polymers	Pb	n.d.	---	---	---	n.d.	Refer to Table 2
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
		2.1.24	BLACK/BROWN SEAL		Polymers	Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.1.25	SILVERY METALLIC COVER		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
		2.1.26	GRAY METALLIC FOIL		Metals	Hg	n.d.		---			
						Cr	127		---			
		2.1.27	SILVERY METALLIC FOIL		Metals	Br	n.d.		---			
						Cr(VI)			---			
		2.1.28	BEIGE FILM		Polymers	PBB			---			
						PBDE			---			
		2.1.25	SILVERY METALLIC COVER		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
		2.1.26	GRAY METALLIC FOIL		Metals	Hg	n.d.		---			
						Cr	n.d.		---			
		2.1.27	SILVERY METALLIC FOIL		Metals	Br	n.d.		---			
						Cr(VI)			---			
		2.1.28	BEIGE FILM		Polymers	PBB			---			
						PBDE			---			






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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.1.29	SILVERY METALLIC PIN		Metals	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		
		2.1.30	BROWN POLYMER JACKET WITH WHITE PRINT		Polymers	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		
		2.1.31	BLACK SEAL		Polymers	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		
		2.1.32	COPPER METALLIC FOIL		Metals	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		

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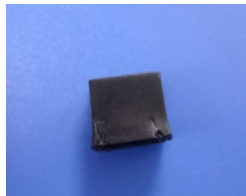

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.1.33	TRANSLUCENT PLASTIC JACKET		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
		2.1.34	BLACK PLASTIC FRAME		Polymers	Hg	n.d.		---			
						Cr	n.d.		---			
		2.1.35	YELLOW TAPE		Polymers	Br	97.9		---			
						Cr(VI)			---			
		2.1.36	BLACK CORE FRAME		Polymers	PBB			---			
						PBDE			---			
		2.1.33	TRANSLUCENT PLASTIC JACKET		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
		2.1.34	BLACK PLASTIC FRAME		Polymers	Hg	n.d.		---			
						Cr	n.d.		---			
		2.1.35	YELLOW TAPE		Polymers	Br	63200		---			
						Cr(VI)			---			
		2.1.36	BLACK CORE FRAME		Polymers	PBB			---			
						PBDE			---			
		2.1.33	TRANSLUCENT PLASTIC JACKET		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
		2.1.34	BLACK PLASTIC FRAME		Polymers	Hg	n.d.		---			
						Cr	1570		---			
		2.1.35	YELLOW TAPE		Polymers	Br	693		---			
						Cr(VI)			---			
		2.1.36	BLACK CORE FRAME		Polymers	PBB			---			
						PBDE			---			

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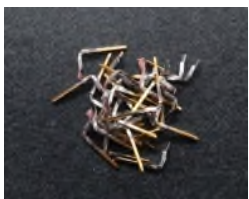

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
2	PCBA 	2.1.37	COPPER METALLIC WIRE 	Metals	Pb	n.d.			---				
					Cd	n.d.			---				
					Hg	n.d.			---				
					Cr	n.d.							
					Br	n.d.							
					Cr(VI)				---				
					PBB								---
					PBDE								---
		2.1.38	ELECTRONIC COMPONENT 	Composite Material	Pb	n.d.			---				
					Cd	n.d.			---				
					Hg	n.d.			---				
					Cr	127							
	Br				237000								
	Cr(VI)					---							
	PBB								n.d.				
	PBDE								n.d.				
	PCBA 	2.1.39	BLACK PLASTIC COVER 	Polymers	Pb	n.d.			---				
					Cd	n.d.			---				
					Hg	n.d.			---				
					Cr	n.d.							
					Br	n.d.							
					Cr(VI)				---				
					PBB								---
					PBDE								---
2.2.1		WHITE LABEL WITH BLACK PRINT 	Polymers	Pb	n.d.			---					
				Cd	n.d.			---					
				Hg	n.d.			---					
				Cr	n.d.								
	Br			n.d.									
	Cr(VI)				---								
	PBB							---					
	PBDE							---					

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.2.2	SILVERY METALLIC NUT		Metals	Pb	7900		24700			*2
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
		2.2.3	BLACK PLASTIC HOUSING		Polymers	Br	n.d.					
						Cr(VI)						
						PBB						
						PBDE						
		2.2.4	GOLDEN METALLIC PIN		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
		2.2.5	BEIGE PLASTIC HOUSING		Polymers	Br	61000					
						Cr(VI)						
						PBB						
						PBDE						

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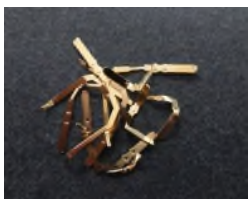

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.2.6	BLACK PLASTIC HOUSING		Polymers	Pb	61.8		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	10400					
						Cr(VI)		---		n.d.		
						PBB			n.d.			
						PBDE						
		2.2.7	GOLDEN METALLIC PIN		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
	Br					n.d.						
	Cr(VI)						---		---			
	PBB							---				
	PBDE							---				
	PCBA	2.2.8	SILVERY METALLIC FRAME		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---		---		
						PBB			---			
						PBDE			---			
						2.2.9	BLACK PLASTIC HOUSING		Polymers	Pb		
		Cd	n.d.	---								
		Hg	n.d.	---								
		Cr	n.d.									
		Br	107									
Cr(VI)			---		---							
PBB				---								
PBDE				---								

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.2.10	SILVERY METALLIC PIN		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
		2.2.11	SILVERY METALLIC FRAME		Metals	Hg	n.d.		---			
						Cr	n.d.		---			
		2.2.12	GOLDEN METALLIC PIN		Metals	Br	n.d.		---			
						Cr(VI)			---			
		2.2.13	BLACK PLASTIC HOUSING		Polymers	PBB			---		n.d.	
						PBDE			---			

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.2.14	SILVERY METALLIC FRAME		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		
		2.2.15	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	86.0					
						Br	41300					
						Cr(VI)		---				
						PBB				n.d.		
						PBDE				n.d.		
		2.2.16	SILVERY/GOLDEN METALLIC PIN		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		
		2.2.17	GOLDEN METALLIC PIN		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		





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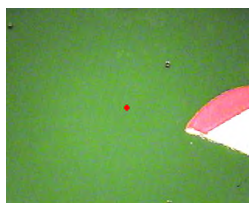



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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.2.18	SILVERY METALLIC FRAME		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)				---		
						PBB				---		
						PBDE				---		
		2.2.19	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	65700					
						Cr(VI)				---		
						PBB				n.d.		
						PBDE				n.d.		
		2.2.20	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	167000					
						Cr(VI)				---		
						PBB				n.d.		
						PBDE				n.d.		
2.3.1.1	SOLDER		Metals	Pb	412		---					
				Cd	n.d.		---					
				Hg	n.d.		---					
				Cr	n.d.							
				Br	n.d.							
				Cr(VI)				---				
				PBB				---				
				PBDE				---				

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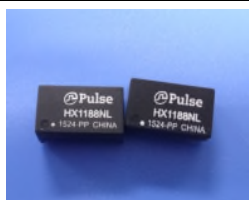

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.3.1.2	RAW PCB		Composite Material	Pb	305		---			
	Cd					n.d.	---					
	Hg					n.d.	---					
	Cr					104						
	Br					1080						
	Cr(VI)						---					
	PBB								n.d.			
	PBDE								n.d.			
	PCBA	2.3.2	YELLOW LABEL WITH BLACK PRINT		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		
	PCBA	2.3.3	SILVERY METALLIC FRAME		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		
	PCBA	2.3.4	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---			Refer to Table 2
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	58.0					
						Br	44000					
						Cr(VI)		---			n.d.	
						PBB				n.d.		
						PBDE				n.d.		

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
2		2.3.5	LED		Composite Material	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							---
						PBB							
						PBDE							---
		2.3.6	GOLDEN METALLIC PIN		Metals	Pb	169		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							---
						PBB							
						PBDE							---
		2.3.7	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							---
						PBB							
						PBDE							---
		2.3.8	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	138						
						Cr(VI)							---
						PBB							
						PBDE							---


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						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
2	PCBA	2.3.9	GOLDEN METALLIC PIN		Metals	Pb	n.d.		---				
	Cd					n.d.	---						
	Hg					n.d.	---						
	Cr					n.d.							
	Br					n.d.							
	Cr(VI)								---				
	PBB												---
	PBDE								---				
	PCBA	2.4.1	BLACK PLASTIC BUTTON WITH GREEN PRINT		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							---
						PBB							
						PBDE							---
		2.4.2	SILVERY METALLIC COVER		Metals	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							---
						PBB							
						PBDE							---
		2.4.3	SILVERY METALLIC PAD		Metals	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							---
						PBB							
						PBDE							---

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						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
2	PCBA	2.4.4	SILVERY TAPE		Polymers	Pb	n.d.	3.49	---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	510						
						Br	51.3						
						Cr(VI)							
						PBB							
						PBDE							
		2.4.5	TRANSLUCENT PLASTIC FRAME		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
	Br					n.d.							
	Cr(VI)												
	PBB												
	PBDE												
	PCBA	2.4.6	WHITE FILM		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							
						PBB							
						PBDE							
2.4.7		BLACK/WHITE TAPE		Polymers	Pb	n.d.		---					
					Cd	n.d.		---					
					Hg	n.d.		---					
					Cr	n.d.							
	Br				51.4								
	Cr(VI)												
	PBB												
	PBDE												


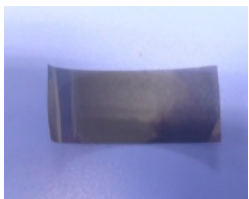


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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.4.8	WHITE FILM		Polymers	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		
	TRANSLUCENT GRAY FILM	2.4.9			Polymers	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		
	PCBA	2.4.10	LED		Composite Material	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	146					
						Br	17100					
						Cr(VI)						
						PBB				n.d.		
						PBDE				n.d.		
3	FAN	3.1	SILVERY LABEL WITH GREEN/BLACK PRINT		Polymers	Pb	77.0	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	91.0					
						Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		








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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
3	FAN	3.2	BLACK PLASTIC TUBE		Polymers	Pb	85.9	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	84.4					
						Br	11900					
						Cr(VI)						
						PBB				n.d.		
						PBDE				n.d.		
		3.3	WHITE PLASTIC HOUSING		Polymers	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		
		3.4	SILVERY METALLIC PIN		Metals	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		
		3.5	BLACK PLASTIC FRAME		Polymers	Pb	n.d.	---	---	---		
						Cd	n.d.					
						Hg	n.d.					
						Cr	85.0					
						Br	42500					
						Cr(VI)						
						PBB				n.d.		
						PBDE				n.d.		

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
3	FAN	3.6	BLACK PLASTIC JACKET		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
		3.7	WHITE PLASTIC JACKET		Polymers	Hg	n.d.		---			
						Cr	n.d.		---			
		3.8	RED PLASTIC JACKET		Polymers	Br	n.d.		---			
						Cr(VI)			---			
		3.9	SILVERY METALLIC WIRE		Metals	PBB			---			
						PBDE			---			

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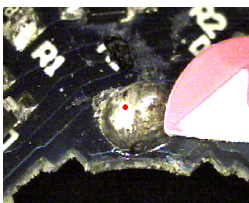




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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
3	FAN	3.10	ELECTRONIC COMPONENT		Composite Material	Pb	3660	---	*2	---		
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	139000					
						Cr(VI)						
						PBB				n.d.		
						PBDE				n.d.		
		3.11	SILVERY METALLIC STICK		Metals	Pb	438	n.d.	---	---		*5
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	2020					
						Br	n.d.					
						Cr(VI)				---		
						PBB				---		
						PBDE				---		
		3.12	BLACK PLASTIC BLADE		Polymers	Pb	n.d.	---	---	---	n.d.	
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	112					
						Br	85500					
						Cr(VI)				n.d.		
						PBB				n.d.		
						PBDE						
		3.13	SILVERY METALLIC FRAME		Metals	Pb	n.d.	---	---	---	---	
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	457					
						Br	n.d.					
						Cr(VI)				---		
						PBB				---		
						PBDE				---		

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
3		3.14.1	SOLDER		Metals	Pb	158		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							---
						PBB							---
		PBDE	---										
		3.14.2	RAW PCB		Composite Material	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	115						
						Br	1900						
						Cr(VI)							---
PBB	n.d.												
PBDE	n.d.												
4		4.1	BEIGE PLASTIC HOUSING		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	163000						
						Cr(VI)							---
						PBB							n.d.
		PBDE	n.d.										
		4.2	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	87.0						
						Br	64200						
						Cr(VI)							---
PBB	n.d.												
PBDE	n.d.												

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
4	ACCESSORY	4.3	SILVERY METALLIC WIRE		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		
		4.4	BLACK PLASTIC JACKET		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		
		4.5	BRASS METALLIC LEAF SPRING		Metals	Pb	n.d.		---			*5
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	167000					
						Br	n.d.					
						Cr(VI)		n.d.				
						PBB				---		
						PBDE				---		
		4.6	SILVERY METALLIC COVER		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)		---				
						PBB				---		
						PBDE				---		

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note								
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE										
4	ACCESSORY	4.7	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---											
						Cd	n.d.		---											
						Hg	n.d.		---											
						Cr	n.d.													
						Br	46200													
						Cr(VI)							---							
						PBB								n.d.						
						PBDE			n.d.											
						4.8	BLACK PLASTIC COVER						Polymers	Pb	n.d.		---			
														Cd	n.d.		---			
														Hg	n.d.		---			
		Cr	n.d.																	
		Br	41700																	
		Cr(VI)			---															
		PBB						n.d.												
		PBDE		n.d.																
		4.9	SILVERY METALLIC SHEET		Metals			Pb		n.d.		---								
								Cd		n.d.		---								
								Hg		n.d.		---								
						Cr	n.d.													
						Br	n.d.													
						Cr(VI)			---											
						PBB				---										
						PBDE		---												
						4.10	BLUE PLASTIC CLIP		Polymers	Pb		n.d.				---				
										Cd		n.d.				---				
										Hg		n.d.				---				
		Cr	n.d.																	
		Br	n.d.																	
		Cr(VI)			---															
		PBB								---										
		PBDE		---																



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Table 2 The test results of Phthalates (Unit: mg/kg)

Test Item (s):	Method	MDL	Result				
			1.1	1.12	1.13	1.25	1.26
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	50	n.d.	n.d.	n.d.	n.d.	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)		50	n.d.	n.d.	n.d.	n.d.	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		50	n.d.	n.d.	n.d.	n.d.	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)		50	n.d.	n.d.	n.d.	n.d.	n.d.

Test Item (s):	Method	MDL	Result				
			2.1.1	2.1.6	2.1.18	2.1.20	2.1.22
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	50	n.d.	n.d.	n.d.	n.d.	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)		50	n.d.	n.d.	n.d.	n.d.	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		50	n.d.	n.d.	n.d.	n.d.	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)		50	n.d.	n.d.	n.d.	n.d.	n.d.

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Test Item (s):	Method	MDL	Result				
			2.1.23	2.1.35	2.2.13	2.3.4	3.8
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	50	n.d.	n.d.	n.d.	n.d.	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)		50	n.d.	n.d.	n.d.	n.d.	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		50	n.d.	n.d.	n.d.	n.d.	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)		50	n.d.	n.d.	n.d.	n.d.	n.d.

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Test Item	MDL (mg/kg)				XRF screening threshold (mg/kg)	Test method
XRF (X-ray fluorescence)	Category	Polymers	Composite Material	Metals	500	With reference to IEC 62321-3-1: 2013
	Element					
	Pb	50	100	100		
	Cd	50	50	50		
	Hg	50	100	100		
	Cr	50	100	100		
	Br	50	100	n.a.	250	

Test Item (s)	Test method	MDL	Unit	Facilities
Cr(VI)	With reference to IEC 62321 (2008) (For Polymers and Electronics)	2	mg/kg	UV
	With reference to IEC 62321-7-1 (2015)	0.1	µg/cm ²	UV
Pb/Cd	With reference to IEC 62321-5 (2013)	2	mg/kg	ICP-AES
Hg	With reference to IEC 62321-4 (2013)	2	mg/kg	ICP-AES

Test Item (s)	Unit	Method	MDL (mg/kg)
PBBs		With reference to IEC 62321-6 (2015).	
Monobromobiphenyl	mg/kg		5
Dibromobiphenyl	mg/kg		5
Tribromobiphenyl	mg/kg		5
Tetrabromobiphenyl	mg/kg		5
Pentabromobiphenyl	mg/kg		5
Hexabromobiphenyl	mg/kg		5
Heptabromobiphenyl	mg/kg		5
Octabromobiphenyl	mg/kg		5
Nonabromobiphenyl	mg/kg		5
Decabromobiphenyl	mg/kg		5
PBDEs			
Monobromodiphenyl ether	mg/kg		5
Dibromodiphenyl ether	mg/kg		5
Tribromodiphenyl ether	mg/kg		5
Tetrabromodiphenyl ether	mg/kg		5
Pentabromodiphenyl ether	mg/kg		5
Hexabromodiphenyl ether	mg/kg		5
Heptabromodiphenyl ether	mg/kg		5
Octabromodiphenyl ether	mg/kg		5
Nonabromodiphenyl ether	mg/kg		5
Decabromodiphenyl ether	mg/kg		5

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1. mg/kg = ppm
2. n.d. = not detected or lower than MDL
3. MDL = Method detection limit
4. "---" = not conducted
5. n.a. = not applicable

The XRF result of Br for metal sample is conducted from semi-quantitative method of polymer. If the Br result is shown as n.d., the reading will be less than 100ppm.

6. " - " = Not Regulated

7. (#2):

- a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 $\mu\text{g}/\text{cm}^2$.

The coating is considered to contain Cr(VI).

- b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 $\mu\text{g}/\text{cm}^2$).

The coating is considered a non-Cr(VI) based coating.

- c. The result between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ is considered to be inconclusive - unavoidable coating variations may influence the determination.

8. Magnetic samples can not be located on test position and there are breakdown risks on XRF equipment. Therefore, this kind of sample will be conducted chemical test directly.

9. If the test result by EDXRF analysis is greater than XRF screening threshold, the test sample should be further conducted by chemical test.

Mark	Description of Mark
*1	The sample weight is not enough to conduct chemical tests.
*2	The item is exempted from RoHS directive.
--*2	The item might be exempted from RoHS directive.
*3	The result was retested after regetting the same sample from client.
*4	The sample is provided separately from the client.
*5	Adopting modified IEC 62321-7-1:2015, due to the test area less than 25 cm^2
*6	The test item was tested by dry base.
*7	This sample follows requirement of client to conduct directly chemical tests.