



Test Report

Report No: CX/2017/10003A

Date: 2019/02/14

REIGN POWER CO., LTD.
8F-7, NO. 22, WU-CHUAN 2ND ROAD, HSIN CHUANG DIST., NEW TAIPEI CITY, R. O. C.

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

Sample Submitted By : REIGN POWER CO., LTD.
 Sample Description : POWER SUPPLY & CHARGER & ACCESSORIES
 Sample Receiving Date : 2017/01/03
 Testing Period : 2017/01/03 to 2017/01/17

=====
 Test Result(s) : Please refer to next page(s).

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.2.6 and No.2.8) in Table 1: Lead (Pb)
 2. ELECTRONIC COMPONENT (No.2.13 and No.2.17) 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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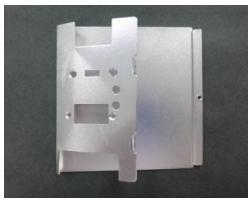
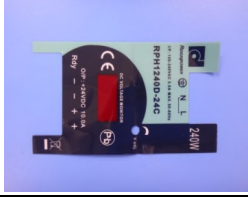

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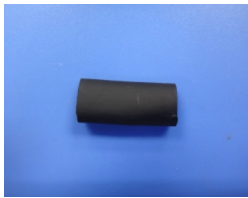

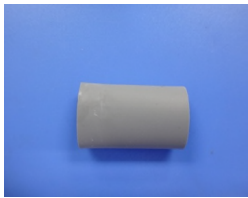
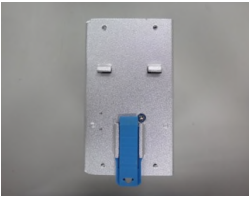
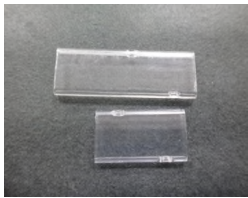


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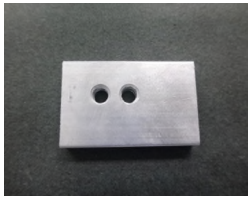




Date: 2019/02/14




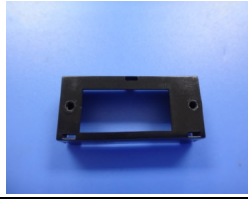
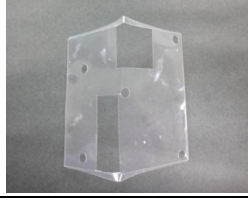
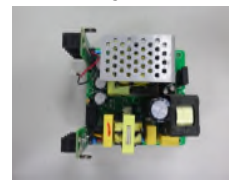
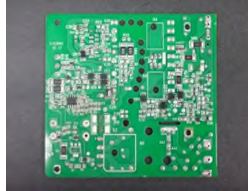
1. Material Fraction Composition

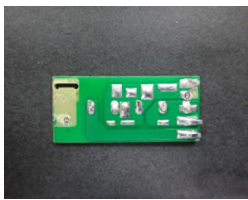




Table 1 The results of XRF screening and chemical test (Unit: mg/kg)

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	1.1 SILVERY METALLIC CASE		Metals	Pb	n.d.	---	---	---	---	
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	n.d.					
					Br	n.d.					
					Cr(VI)			---			
	PBB		---								
	PBDE		---								
	BLUE/DK. BLUE/RED SHEET	1.2		Polymers	Pb	n.d.	---	---	---	---	Refer to Table 2-3
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	n.d.					
					Br	n.d.					
					Cr(VI)			---			
	PBB		---								
	PBDE		---								
	SILVERY METALLIC SCREW	1.3		Metals	Pb	n.d.	---	---	---	---	
					Cd	n.d.		---			
Hg					n.d.	---					
Cr					n.d.						
Br					n.d.						
Cr(VI)						---					
PBB		---									
PBDE		---									


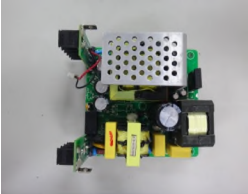


No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
1	CASE	1.4	BLACK POLYMER TUBE		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)			---				
						PBB							
	PBDE												
		1.5	GRAY POLYMER TUBE		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)			---				
						PBB							
	PBDE												
	1.6	TRANSPARENT PLASTIC CAP		Polymers	Pb	n.d.		---			Refer to Table 2-3		
					Cd	n.d.		---					
					Hg	n.d.		---					
					Cr	n.d.							
					Br	n.d.							
					Cr(VI)			---					
					PBB								
PBDE													
	1.7	SILVERY METALLIC FRAME		Metals	Pb	n.d.		---					
					Cd	n.d.		---					
					Hg	n.d.		---					
					Cr	n.d.							
					Br	n.d.							
					Cr(VI)			---					
					PBB								
PBDE													


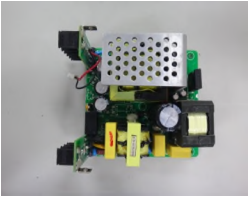




No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
1	CASE	1.8	LT. BLUE PAD		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)			---				
						PBB							
	PBDE												
		1.9	SILVERY METALLIC LUMP		Metals	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)			---				
						PBB							
	PBDE												
	1.10	BLUE PLASTIC PAD		Polymers	Pb	n.d.		---			Refer to Table 2-3		
					Cd	n.d.		---					
					Hg	n.d.		---					
					Cr	n.d.							
					Br	n.d.							
					Cr(VI)			---					
					PBB								
PBDE													
	1.11	SILVERY METALLIC SPRING		Metals	Pb	n.d.		---					
					Cd	n.d.		---					
					Hg	n.d.		---					
					Cr	n.d.							
					Br	n.d.							
					Cr(VI)			---					
					PBB								
PBDE													


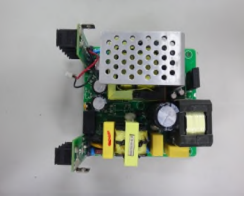


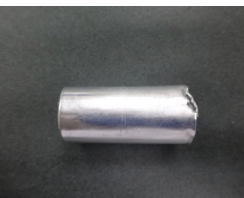

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
1		1.12	WHITE PLASTIC HOUSING		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	52.5						
						Cr(VI)			---				
						PBB							
						PBDE							
							1.13		BLACK PLASTIC HOUSING				
	Cd	n.d.	---										
	Hg	n.d.	---										
	Cr	n.d.											
	Br	n.d.											
	Cr(VI)		---										
	PBB												
	PBDE												
	1.14	TRANSPARENT PLASTIC SHEET		Polymers	Pb			n.d.			---		
					Cd	n.d.	---						
Hg					n.d.	---							
Cr					n.d.								
Br					n.d.								
Cr(VI)						---							
PBB													
PBDE													
2						2.1	PCBA		Composite Material		Pb		---
	Cd	---	n.d.										
	Hg	---	n.d.										
	Cr	---											
	Br	---											
	Cr(VI)		n.d.										
	PBB												
	PBDE												
				n.d.									
				n.d.									

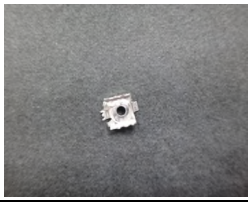
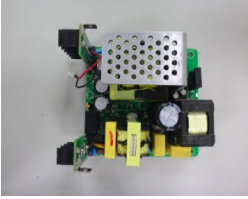




No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.2	PCB		Composite Material	Pb	---	n.d.	15.6	n.d.	n.d.	
						Cd	---		n.d.			
						Hg	---		n.d.			
						Cr	---					
						Br	---					
						Cr(VI)						
						PBB						
	PBDE											
		2.3	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.	---	---	n.d.	n.d.	
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	70600					
						Cr(VI)						
						PBB						
	PBDE											
	2.4	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.	---	---	n.d.	n.d.		
					Cd	n.d.		---				
					Hg	n.d.		---				
					Cr	n.d.						
					Br	41700						
					Cr(VI)							
					PBB							
PBDE												
	2.5	BLACK PLASTIC COVER		Polymers	Pb	n.d.	---	---	n.d.	n.d.		
					Cd	n.d.		---				
					Hg	n.d.		---				
					Cr	n.d.						
					Br	44800						
					Cr(VI)							
					PBB							
PBDE												

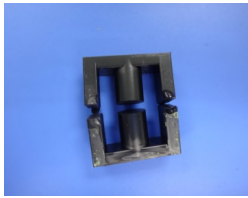

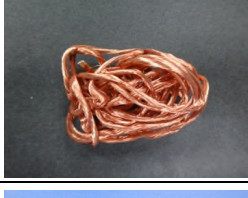


No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
2	PCBA	2.6	ELECTRONIC COMPONENT		Composite Material	Pb	53900		*2				
						Cd	n.d.		---				
							Hg	n.d.	---				
							Cr	135					
							Br	117000					
							Cr(VI)		---			n.d.	
							PBB				n.d.		
							PBDE				n.d.		
			2.7	ELECTRONIC COMPONENT		Composite Material	Pb	739		94.2			
	Cd						n.d.	---					
							Hg	n.d.	---				
							Cr	n.d.					
						Br	n.d.						
						Cr(VI)		---			---		
						PBB				---			
						PBDE				---			
		2.8	ELECTRONIC COMPONENT		Composite Material	Pb	76400		*2				
Cd						n.d.	---						
						Hg	n.d.	---					
						Cr	308						
						Br	49000						
						Cr(VI)		---			n.d.		
						PBB				n.d.			
						PBDE				n.d.			
		2.9	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---				
Cd						n.d.	---						
						Hg	n.d.	---					
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)		---			---		
						PBB				---			
						PBDE				---			


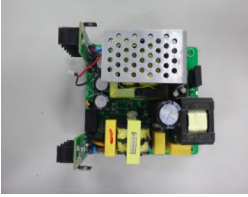
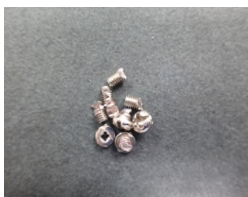

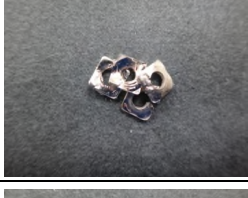

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
2	PCBA	2.10	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---				
						Cd	n.d.		---				
							Hg	n.d.	---				
							Cr	141					
							Br	n.d.					
							Cr(VI)		---				
							PBB			---			
							PBDE			---			
			2.11	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---			
	Cd						n.d.	---					
							Hg	n.d.	---				
							Cr	368					
							Br	n.d.					
							Cr(VI)		---				
							PBB			---			
							PBDE			---			
		2.12	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---				
Cd						n.d.	---						
						Hg	n.d.	---					
						Cr	216						
						Br	767						
						Cr(VI)		---			n.d.		
						PBB				n.d.			
						PBDE							
		2.13	ELECTRONIC COMPONENT		Composite Material	Pb	48500		*2				
Cd						n.d.	---						
						Hg	n.d.	---					
						Cr	183						
						Br	n.d.						
						Cr(VI)		---					
						PBB				---			
						PBDE				---			


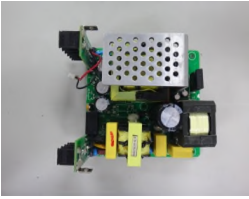





No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Other Chemical Test	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
2	PCBA	2.14	ELECTRONIC COMPONENT		Composite Material	Pb	572		43.5				
						Cd	n.d.		---				
							Hg	n.d.	---				
							Cr	n.d.					
							Br	n.d.					
							Cr(VI)		---				
							PBB			---			
							PBDE			---			
			2.15	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---			
	Cd						n.d.	---					
							Hg	n.d.	---				
							Cr	n.d.					
							Br	n.d.					
							Cr(VI)		---				
							PBB			---			
							PBDE			---			
		2.16	TRANSLUCENT PLASTIC TUBE		Polymers	Pb	n.d.		---				
Cd						n.d.	---						
						Hg	n.d.	---					
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)		---					
						PBB			---				
						PBDE			---				
		2.17	ELECTRONIC COMPONENT		Composite Material	Pb	78000		*2				
Cd						n.d.	---						
						Hg	n.d.	---					
						Cr	405						
						Br	n.d.						
						Cr(VI)		---					
						PBB			---				
						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	2.18	BLACK 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		---					
			2.19	BLACK SEAL		Polymers	Pb	n.d.		---				
	Cd						n.d.	---						
	Hg						n.d.	---						
							Cr	n.d.						
						Br	n.d.							
						Cr(VI)	---							
						PBB			---					
						PBDE			---					
		2.20	SILVERY METALLIC COVER		Metals	Pb	n.d.		---					
Cd						n.d.	---							
Hg						n.d.	---							
						Cr	133							
						Br	n.d.							
						Cr(VI)	---							
						PBB				---				
						PBDE				---				
		2.21	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				---				

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	2.22	SILVERY METALLIC COVER		Metals	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)			---				
						PBB							
						PBDE							
		2.23	ORANGE PLASTIC PAD		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)			---				
						PBB							
						PBDE							
	2.24	BLACK PLASTIC FRAME		Polymers	Pb	n.d.		---					
					Cd	n.d.		---					
					Hg	n.d.		---					
					Cr	n.d.							
					Br	n.d.							
					Cr(VI)			---					
					PBB								
					PBDE								
	2.25	YELLOW PLASTIC TAPE		Polymers	Pb	n.d.		---					
					Cd	n.d.		---					
					Hg	n.d.		---					
					Cr	n.d.							
					Br	62.4							
					Cr(VI)			---					
					PBB								
					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	2.26	BLACK PLASTIC FRAME		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
							Cr	n.d.					
							Br	n.d.					
							Cr(VI)		---				
							PBB			---			
							PBDE			---			
			2.27	BLACK CORE FRAME		Composite Material	Pb	n.d.		---			
	Cd						n.d.	---					
	Hg						n.d.	---					
							Cr	2000					
						Br	n.d.						
						Cr(VI)		n.d.					
						PBB			---				
						PBDE			---				
		2.28	COPPER METALLIC WIRE		Metals	Pb	n.d.		---				
Cd						n.d.	---						
Hg						n.d.	---						
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)		---					
						PBB			---				
						PBDE			---				
		2.29	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---				
Cd						n.d.	---						
Hg						n.d.	---						
						Cr	n.d.						
						Br	60.5						
						Cr(VI)		---					
						PBB			---				
						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	2.30	BLACK PLASTIC FRAME		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
							Hg	n.d.	---				
							Cr	n.d.					
							Br	1180					
							Cr(VI)		---				
							PBB			n.d.			
							PBDE			n.d.			
			2.31	SILVERY METALLIC SCREW		Metals	Pb	618		18.7			
	Cd						95.5	n.d.					
							Hg	n.d.	---				
							Cr	n.d.					
						Br	n.d.						
						Cr(VI)		---					
						PBB			---				
						PBDE			---				
		2.32	SILVERY METALLIC WASHER		Metals	Pb	599		20.7				
Cd						n.d.	---						
						Hg	n.d.	---					
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)		---					
						PBB			---				
						PBDE			---				
		2.33	SILVERY METALLIC NUT		Metals	Pb	n.d.		---				
Cd						n.d.	---						
						Hg	n.d.	---					
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)		---					
						PBB			---				
						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	2.34	SILVERY METALLIC FRAME		Metals	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
							Cr	n.d.					
							Br	n.d.					
							Cr(VI)	---					
							PBB		---				
							PBDE		---				
			2.35	WHITE PLASTIC HOUSING		Polymers	Pb	n.d.		---			
	Cd						n.d.	---					
	Hg						n.d.	---					
							Cr	n.d.					
						Br	n.d.						
						Cr(VI)	---						
						PBB		---					
						PBDE		---					
		2.36	BLACK PLASTIC JACKET		Polymers	Pb	n.d.		---				
Cd						n.d.	---						
Hg						n.d.	---						
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)	---						
						PBB		---					
						PBDE		---					
		2.37	RED PLASTIC JACKET		Polymers	Pb	n.d.		---				
Cd						n.d.	---						
Hg						n.d.	---						
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)	---						
						PBB		---					
						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	2.38	SILVERY METALLIC FRAME		Metals	Pb	668		n.d.			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	1530					
						Br	n.d.	n.d.				
						Cr(VI)						
						PBB		---				
						PBDE		---				

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

Test Item (s):	Method	MDL	Result		
			1.2	1.6	1.10
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.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)		50	n.d.	n.d.	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		50	n.d.	n.d.	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)		50	n.d.	n.d.	n.d.



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Table 3 The test results of PFOS (Unit: mg/kg)

Test Item (s):	Method	MDL	Result		
			1.2	1.6	1.10
Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	10	n.d.	n.d.	n.d.



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

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

Test Item (s):	Test method	MDL (µg/cm ²)	Facilities
Cr(VI)(#2)	With reference to IEC 62321-7-1:2015 (For Coatings on Metals)	0.1	UV

Test Item (s):	Unit	Method	MDL (mg/kg)	
PBBs				
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6: 2015. Determination of PBB and PBDE by GC/MS.	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 mg/cm².
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 mg/cm²).
The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 mg/cm² and 0.13 mg/cm² 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.

10. This report supersedes the previous document bearing the test report number CX/2017/10003.

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.

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