CONSUMER PRODUCTS SERVICES DIVISION

FLASHBAY ELECTRONICS

Technical Report: **(8517)355-0356(C)** January 09, 2018
Date Received: December 21, 2017

LEVIN
FLASHBAY ELECTRONICS
BLGD B & C XI FENG CHENG IND ZONE,
NO.2 FUYUAN ROAD HE PING,
VILLAGE, FUYONG TOWN ,SHENZHEN

Sample Description:	PHONE WALLETS		
Vendor:	N/A	Sample Size:	13
Manufacturer:	N/A	Style No(s):	SLIM(SS)
Buyer:	N/A	SKN/SKU No.:	N/A
Labeled Age Grade:	N/A	PO No.:	N/A
Appropriate Age Grade:	N/A	Ref #:	N/A
Client Specified Age Grade:	N/A	Country of Origin:	N/A
Tested Age Grade:	CHILDREN PRODUCTS, OVER 3 YEARS OF AGE	Assortment No.:	N/A
UPC Code:	N/A		

EXECUTIVE SUMMARY:

The sample(s) MEET the following requirement(s):

- Heavy Metals and Flame Retardants Content – European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

- Phthalates Test – Directive 2015/863/EU Amendment of European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) (Note: The amendment will be effective on 22 July 2019. For medical devices and control instruments, effective date will be 22 July 2021.)

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RESULTS:

Heavy Metals and Flame Retardants Content - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

Test Method : See Appendix.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	White soft plastic	Phone wallets	/

See Analytes (Parameter) and their corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Metallic material**
	Type II	**Glass or ceramic material**
	Type III	**Other non-metallic material except Type II**

-	Unit	Req.	Result			
Test Item(s)	-	-	I001			
Type	-	III	III			
Parameter	-	-	-			
Lead (Pb)	mg/kg	1000	ND			
Cadmium (Cd)	mg/kg	100	ND			
Mercury (Hg)	mg/kg	1000	ND			
Chromium VI (Cr VI)	mg/kg	1000	ND			
PBBs	mg/kg	1000	ND			
MonoBB	mg/kg	-	ND			
DiBB	mg/kg	-	ND			
TriBB	mg/kg	-	ND			
TetraBB	mg/kg	-	ND			
PentaBB	mg/kg	-	ND			
HexaBB	mg/kg	-	ND			
HeptaBB	mg/kg	-	ND			
OctaBB	mg/kg	-	ND			
NonaBB	mg/kg	-	ND			
DecaBB	mg/kg	-	ND			
PBDEs	mg/kg	1000	ND			
MonoBDE	mg/kg	-	ND			
DiBDE	mg/kg	-	ND			
TriBDE	mg/kg	-	ND			
TetraBDE	mg/kg	-	ND			
PentaBDE	mg/kg	-	ND			
HexaBDE	mg/kg	-	ND			
HeptaBDE	mg/kg	-	ND			
OctaBDE	mg/kg	-	ND			
NonaBDE	mg/kg	-	ND			
DecaBDE	mg/kg	-	ND			
Conclusion	-	-	PASS			

RESULTS:

Note / Key :

ND = Not detected ">" = Greater than Req. = Requirement
NR = Not requested mg/kg = milligram(s) per kilogram = ppm = part(s) per million
% = percent 10 000 mg/kg = 1 %
Detection Limit (mg/kg) :
For Type I - Each (Pb, Cd & Hg) : 2.0
For Type II - Each (Pb, Cd, Hg & Cr VI) : 2.0
For Type III - Metal, Polymers & Electronics - Each (Pb, Cd, Hg & Cr VI) : 2.0; Each (PBBs & PBDEs) : 50; Others - Each (Pb, Cd & Hg) : 2.0; Cr VI : 3.0; Each (PBBs & PBDEs) : 50

Remark :

- The testing approach is listed in table of Appendix.
- # denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.
- According to European Parliament and Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.

Phthalates Test – Directive 2015/863/EU Amendment of European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

Test Method : With reference to draft International Standard IEC 62321-8.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	White soft plastic	Phone wallets	/

Maximum Allowable Limit:	DEHP, BBP, DBP & DIBP: 0.1% (Each)

Tested Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
I001	ND	ND	%	PASS

Note / Key :

ND = Not detected ">" = Greater than
NR = Not requested mg/kg = milligram(s) per kilogram = ppm = part(s) per million
% = percent 10 000 mg/kg = 1 %
Detection Limit (%) : 0.005

Remark : The list of phthalates is summarized in table of Appendix.

END

RESULTS:

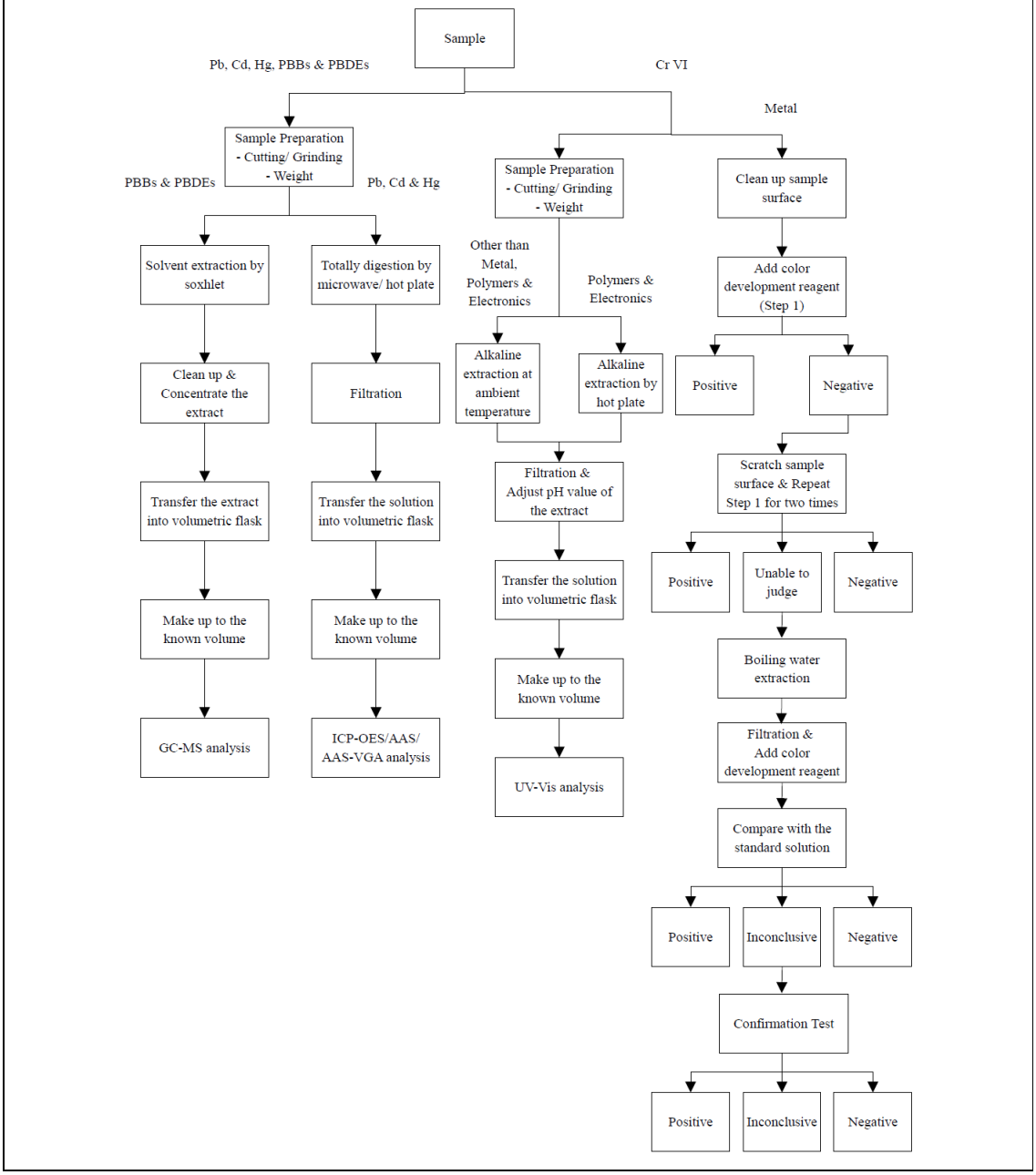
APPENDIX

List of Analytes and their Corresponding Test Methods [European Parliament and Council Directive 2011/65/EU] :		
No.	**Name of Analytes**	**Test Method(s)**
1	Lead (Pb)	With reference to International Standard IEC 62321-5: 2013.
2	Cadmium (Cd)	
3	Mercury (Hg)	With reference to International Standard IEC 62321-4: 2013.
4	Chromium VI (Cr VI)	Metal : With reference to International Standard IEC 62321-7-1: 2015. Polymers and Electronics : With reference to European Standard EN 62321: 2009, Annex C. Leather : International Standard ISO 17075: 2007 Other than Metal, Leather, Polymers and Electronics: With reference to International Standard ISO 17075: 2007
5	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	With reference to International Standard IEC 62321-6: 2015.
6	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	

List of Phthalates:					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	3	Dibutyl phthalate (DBP)	84-74-2
2	Butyl benzyl phthalate (BBP)	85-68-7	4	Diisobutyl phthalate (DIBP)	84-69-5

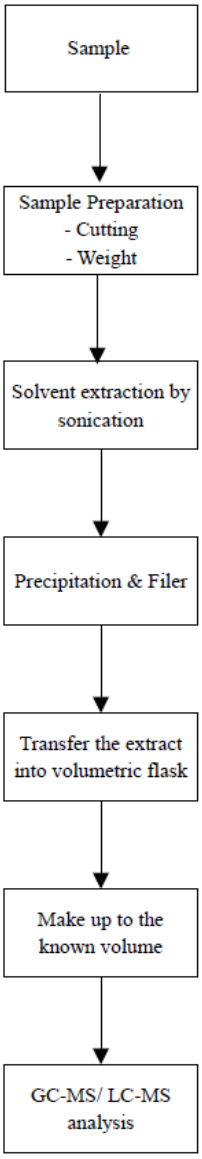
RESULTS:

Test Flowchart of Heavy Metals and Flame Retardants Content [European Parliament and Council Directive 2011/65/EU] :



RESULTS:

Test Flowchart of Phthalates Content [European Parliament and Council Directive 2015/863/EU] :



RESULTS: