

## Test Report No. : CE/2011/90703 Date : 2011/09/19 Page : 1 of 35



LELON ELECTRONICS CORP.  
(LELON ELECTRONICS (HUIZHOU) CO., LTD.)  
(LELON ELECTRONICS (SUZHOU) CO., LTD.)  
20, LANE 51, CHENGGONG RD., DALI DIST., TAICHUNG CITY, TAIWAN  
(TAIYANG INDUSTRIAL ZONE, BAIHUA TOWN, HUIDONG COUNTY, HUIZHOU CITY,  
GUANGDONG, CHINA)  
(1220, ZHONGSHAN NORTH RD., SONGLING TOWN, WUJIANG CITY, JIANGSU, CHINA)

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

Sample Description : ALUMINUM ELECTROLYTIC CAPACITORS  
Style/Item No. : RADIAL TYPE  
Sample Receiving Date : 2011/09/05  
Testing Period : 2011/09/05 TO 2011/09/19

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



Chenyu Kung / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory – Taipei

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## Test Result(s)

- PART NAME No.1 : GRAY COLORED METAL (AL-FOIL)
- PART NAME No.2 : SILVER COLORED METAL (AL-CASE)
- PART NAME No.3 : MIXED ALL PARTS (LEAD WIRE)
- PART NAME No.4 : BROWN PAPER (ELECTROLYTIC PAPER)
- PART NAME No.5 : TRANSPARENT TAPE (ADHESIVE TAPE)
- PART NAME No.6 : BLACK RUBBER (RUBBER -IIR)
- PART NAME No.7 : BLACK RUBBER (RUBBER -EPT)
- PART NAME No.8 : BLUE PLASTIC TUBE (PET SLEEVE -BLUE)
- PART NAME No.9 : BLACK PLASTIC TUBE (PET SLEEVE -BLACK)
- PART NAME No.10 : BROWN PLASTIC TUBE (PET SLEEVE -BROWN)
- PART NAME No.11 : GREEN PLASTIC TUBE (PET SLEEVE -GREEN)
- PART NAME No.12 : DEEP PURPLE PLASTIC TUBE (PET SLEEVE -DEEP PURPLE)
- PART NAME No.13 : WHITE INK (INK -WHITE)
- PART NAME No.14 : RED INK (INK -GOLD)
- PART NAME No.15 : BLACK INK (INK -BLACK)
- PART NAME No.16 : TRANSPARENT-LIGHT YELLOW LIQUID (ELECTROLYTE -GBL)
- PART NAME No.17 : TRANSPARENT-ORANGE LIQUID (ELECTROLYTE -EG)

Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321:2008 and performed by ICP-AES.	2	n.d.	15	n.d.	n.d.	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Hexavalent Chromium Cr(VI)	**	With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	Negative	Negative	---	---	---
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	---	---	n.d.	n.d.	n.d.
Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	---	---	---	---	n.d.
Polychlorinated Terphenyls (PCTs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	---	---	---	---	n.d.
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	---	---	---	---	n.d.
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	%	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.01	---	---	---	---	n.d.
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	With reference to DIN 53313. Analysis was performed by GC/MS.	10	---	---	---	---	n.d.
Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	---	---	---	---	n.d.
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	---	---	---	---	n.d.

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	---	---	---	---	n.d.
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	---	---	---	---	n.d.
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	---	---	---	---	n.d.
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	---	---	---	---	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	---	---	---	---	n.d.
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	---	---	---	---	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	---	---	---	---	n.d.
<b>Halogen</b>								
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	---	---	---	n.d.	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	---	---	---	n.d.	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	---	---	---	n.d.	n.d.

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	---	---	---	n.d.	n.d.
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321:2008 and performed by GC/MS.	-	---	---	---	n.d.	n.d.
Monobromobiphenyl			5	---	---	---	n.d.	n.d.
Dibromobiphenyl			5	---	---	---	n.d.	n.d.
Tribromobiphenyl			5	---	---	---	n.d.	n.d.
Tetrabromobiphenyl			5	---	---	---	n.d.	n.d.
Pentabromobiphenyl			5	---	---	---	n.d.	n.d.
Hexabromobiphenyl			5	---	---	---	n.d.	n.d.
Heptabromobiphenyl			5	---	---	---	n.d.	n.d.
Octabromobiphenyl			5	---	---	---	n.d.	n.d.
Nonabromobiphenyl			5	---	---	---	n.d.	n.d.
Decabromobiphenyl			5	---	---	---	n.d.	n.d.
<b>Sum of PBDEs</b>			-	---	---	---	n.d.	n.d.
Monobromodiphenyl ether			5	---	---	---	n.d.	n.d.
Dibromodiphenyl ether			5	---	---	---	n.d.	n.d.
Tribromodiphenyl ether			5	---	---	---	n.d.	n.d.
Tetrabromodiphenyl ether			5	---	---	---	n.d.	n.d.
Pentabromodiphenyl ether			5	---	---	---	n.d.	n.d.
Hexabromodiphenyl ether			5	---	---	---	n.d.	n.d.
Heptabromodiphenyl ether			5	---	---	---	n.d.	n.d.
Octabromodiphenyl ether			5	---	---	---	n.d.	n.d.
Nonabromodiphenyl ether	5	---	---	---	n.d.	n.d.		
Decabromodiphenyl ether	5	---	---	---	n.d.	n.d.		

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
<b>AZO</b>								
1): 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
2): BENZIDINE (CAS No.: 92-87-5)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
3): 4-CHLORO-O-TOLUIDINE (CAS No.: 95-69-2)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
4): 2-NAPHTHYLAMINE (CAS No.: 91-59-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
5): O-AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
6): 2-AMINO-4-NITROTOLUENE (CAS No.: 99-55-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
7): P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
8): 2,4-DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
9): 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
10): 3,3'-DICHLOROBENZIDINE (CAS No.: 91-94-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
11): 3,3'-DIMETHOXYBENZIDINE (CAS No.: 119-90-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
12): 3,3'-DIMETHYLBENZIDINE (CAS No.: 119-93-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
13): 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
14): P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 120-71-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
15): 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
16): 4,4'-OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
17): 4,4'-THIODIANILINE (CAS No.: 139-65-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
18): O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
19): 2,4-TOLUYLENEDIAMINE (CAS No.: 95-80-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
20): 2,4,5-TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
21): O-ANISIDINE (CAS No.: 90-04-0)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
22): P-AMINOAZOBENZENE (CAS No.: 60-09-3)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
23): 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.
24): 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	---	---	---	n.d.

Test Item (s):	Unit	Method	MDL	Result				
				No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	n.d.	n.d.	n.d.	n.d.

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# Test Report

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LELON ELECTRONICS CORP.  
 (LELON ELECTRONICS (HUIZHOU) CO., LTD.)  
 (LELON ELECTRONICS (SUZHOU) CO., LTD.)  
 20, LANE 51, CHENGGONG RD., DALI DIST., TAICHUNG CITY, TAIWAN  
 (TAIYANG INDUSTRIAL ZONE, BAIHUA TOWN, HUIDONG COUNTY, HUIZHOU CITY,  
 GUANGDONG, CHINA)  
 (1220, ZHONGSHAN NORTH RD., SONGLING TOWN, WUJIANG CITY, JIANGSU, CHINA)

Test Item (s):	Unit	Method	MDL	Result				
				No.6	No.7	No.8	No.9	No.10
Polychlorinated Terphenyls (PCTs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	n.d.	n.d.	n.d.	n.d.
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	n.d.	n.d.	n.d.	n.d.
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	%	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.01	n.d.	n.d.	n.d.	n.d.	n.d.
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	With reference to DIN 53313. Analysis was performed by GC/MS.	10	n.d.	n.d.	n.d.	n.d.	n.d.
Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	n.d.	n.d.	n.d.	n.d.
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	n.d.	n.d.	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	n.d.	n.d.	n.d.
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	n.d.	n.d.	n.d.	n.d.
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	n.d.	n.d.	n.d.	n.d.
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	n.d.	n.d.	n.d.

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 GUANGDONG, CHINA)  
 (1220, ZHONGSHAN NORTH RD., SONGLING TOWN, WUJIANG CITY, JIANGSU, CHINA)

Test Item (s):	Unit	Method	MDL	Result				
				No.6	No.7	No.8	No.9	No.10
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	n.d.	n.d.	n.d.
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	n.d.	n.d.	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	n.d.	n.d.	n.d.
<b>Halogen</b>								
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.	n.d.	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.	n.d.	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.	n.d.	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.	n.d.	n.d.

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Test Item (s):	Unit	Method	MDL	Result				
				No.6	No.7	No.8	No.9	No.10
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.	n.d.	n.d.
Monobromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Dibromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Tribromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Tetrabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Pentabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Hexabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Heptabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Octabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Nonabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Decabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
<b>Sum of PBDEs</b>			-	n.d.	n.d.	n.d.	n.d.	n.d.
Monobromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Dibromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Tribromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Octabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Nonabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Decabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.

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# Test Report

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LELON ELECTRONICS CORP.  
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 GUANGDONG, CHINA)  
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Test Item (s):	Unit	Method	MDL	Result				
				No.6	No.7	No.8	No.9	No.10
<b>AZO</b>								
1): 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
2): BENZIDINE (CAS No.: 92-87-5)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
3): 4-CHLORO-O-TOLUIDINE (CAS No.: 95-69-2)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
4): 2-NAPHTHYLAMINE (CAS No.: 91-59-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
5): O-AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
6): 2-AMINO-4-NITROTOLUENE (CAS No.: 99-55-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
7): P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
8): 2,4-DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
9): 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
10): 3,3'-DICHLOROBENZIDINE (CAS No.: 91-94-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.

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Test Item (s):	Unit	Method	MDL	Result				
				No.6	No.7	No.8	No.9	No.10
11): 3,3'-DIMETHOXYBENZIDINE (CAS No.: 119-90-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
12): 3,3'-DIMETHYLBENZIDINE (CAS No.: 119-93-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
13): 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
14): P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 120-71-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
15): 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
16): 4,4'-OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
17): 4,4'-THIODIANILINE (CAS No.: 139-65-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
18): O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
19): 2,4-TOLUYLENEDIAMINE (CAS No.: 95-80-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
20): 2,4,5-TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.

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Test Item (s):	Unit	Method	MDL	Result				
				No.6	No.7	No.8	No.9	No.10
21): O-ANISIDINE (CAS No.: 90-04-0)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
22): P-AMINOAZOBENZENE (CAS No.: 60-09-3)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
23): 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.
24): 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	n.d.	n.d.

Test Item (s):	Unit	Method	MDL	Result				
				No.11	No.12	No.13	No.14	No.15
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.	n.d.	n.d.

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# Test Report

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LELON ELECTRONICS CORP.  
 (LELON ELECTRONICS (HUIZHOU) CO., LTD.)  
 (LELON ELECTRONICS (SUZHOU) CO., LTD.)  
 20, LANE 51, CHENGGONG RD., DALI DIST., TAICHUNG CITY, TAIWAN  
 (TAIYANG INDUSTRIAL ZONE, BAIHUA TOWN, HUIDONG COUNTY, HUIZHOU CITY,  
 GUANGDONG, CHINA)  
 (1220, ZHONGSHAN NORTH RD., SONGLING TOWN, WUJIANG CITY, JIANGSU, CHINA)

Test Item (s):	Unit	Method	MDL	Result				
				No.11	No.12	No.13	No.14	No.15
Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	n.d.	---	---	---
Polychlorinated Terphenyls (PCTs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	n.d.	---	---	---
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	n.d.	---	---	---
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	%	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.01	n.d.	n.d.	---	---	---
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	With reference to DIN 53313. Analysis was performed by GC/MS.	10	n.d.	n.d.	---	---	---
Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	n.d.	---	---	---
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	---	---	---
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	---	---	---
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	n.d.	---	---	---
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	n.d.	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.11	No.12	No.13	No.14	No.15
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	---	---	---
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	---	---	---
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	---	---	---
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	---	---	---
<b>Halogen</b>								
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.	n.d.	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	127	130	n.d.	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.	n.d.	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.	n.d.	n.d.

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Test Item (s):	Unit	Method	MDL	Result				
				No.11	No.12	No.13	No.14	No.15
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.	n.d.	n.d.
Monobromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Dibromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Tribromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Tetrabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Pentabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Hexabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Heptabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Octabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Nonabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
Decabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.	n.d.
<b>Sum of PBDEs</b>			-	n.d.	n.d.	n.d.	n.d.	n.d.
Monobromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Dibromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Tribromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Octabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Nonabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.
Decabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.	n.d.

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# Test Report

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Test Item (s):	Unit	Method	MDL	Result				
				No.11	No.12	No.13	No.14	No.15
<b>AZO</b>								
1): 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
2): BENZIDINE (CAS No.: 92-87-5)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
3): 4-CHLORO-O-TOLUIDINE (CAS No.: 95-69-2)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
4): 2-NAPHTHYLAMINE (CAS No.: 91-59-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
5): O-AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
6): 2-AMINO-4-NITROTOLUENE (CAS No.: 99-55-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
7): P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
8): 2,4-DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
9): 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
10): 3,3'-DICHLOROBENZIDINE (CAS No.: 91-94-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.11	No.12	No.13	No.14	No.15
11): 3,3'-DIMETHOXYBENZIDINE (CAS No.: 119-90-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
12): 3,3'-DIMETHYLBENZIDINE (CAS No.: 119-93-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
13): 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
14): P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 120-71-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
15): 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
16): 4,4'-OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
17): 4,4'-THIODIANILINE (CAS No.: 139-65-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
18): O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
19): 2,4-TOLUYLENEDIAMINE (CAS No.: 95-80-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
20): 2,4,5-TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---

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Test Item (s):	Unit	Method	MDL	Result				
				No.11	No.12	No.13	No.14	No.15
21): O-ANISIDINE (CAS No.: 90-04-0)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
22): P-AMINOAZOBENZENE (CAS No.: 60-09-3)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
23): 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---
24): 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	---	---	---

Test Item (s):	Unit	Method	MDL	Result	
				No.16	No.17
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.

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Test Item (s):	Unit	Method	MDL	Result	
				No.16	No.17
Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	n.d.
Polychlorinated Terphenyls (PCTs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	n.d.
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	n.d.
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	%	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.01	n.d.	n.d.
<b>Halogen</b>					
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.

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# Test Report

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Test Item (s):	Unit	Method	MDL	Result	
				No.16	No.17
<b>Organic-tin compounds</b>					
Tributyl Tin (TBT) (CAS No.: 688-73-3)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.	n.d.
Triphenyl Tin (TphT) (CAS No.: 668-34-8)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.	n.d.
<b>Sum of PBBs</b>			-	n.d.	n.d.
Monobromobiphenyl			5	n.d.	n.d.
Dibromobiphenyl			5	n.d.	n.d.
Tribromobiphenyl			5	n.d.	n.d.
Tetrabromobiphenyl			5	n.d.	n.d.
Pentabromobiphenyl			5	n.d.	n.d.
Hexabromobiphenyl			5	n.d.	n.d.
Heptabromobiphenyl			5	n.d.	n.d.
Octabromobiphenyl			5	n.d.	n.d.
Nonabromobiphenyl			5	n.d.	n.d.
Decabromobiphenyl			5	n.d.	n.d.
<b>Sum of PBDEs</b>			-	n.d.	n.d.
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 and performed by GC/MS.	5	n.d.	n.d.
Dibromodiphenyl ether			5	n.d.	n.d.
Tribromodiphenyl ether			5	n.d.	n.d.
Tetrabromodiphenyl ether			5	n.d.	n.d.
Pentabromodiphenyl ether			5	n.d.	n.d.
Hexabromodiphenyl ether			5	n.d.	n.d.
Heptabromodiphenyl ether			5	n.d.	n.d.
Octabromodiphenyl ether			5	n.d.	n.d.
Nonabromodiphenyl ether			5	n.d.	n.d.
Decabromodiphenyl ether			5	n.d.	n.d.

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### Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. "---" = Not Conducted
6. \*\* = Qualitative analysis (No Unit)
7. # = a. Positive means the presence of CrVI on the tested areas  
b. Negative means the absence of CrVI on the tested areas  
The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> tested areas.
8. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.

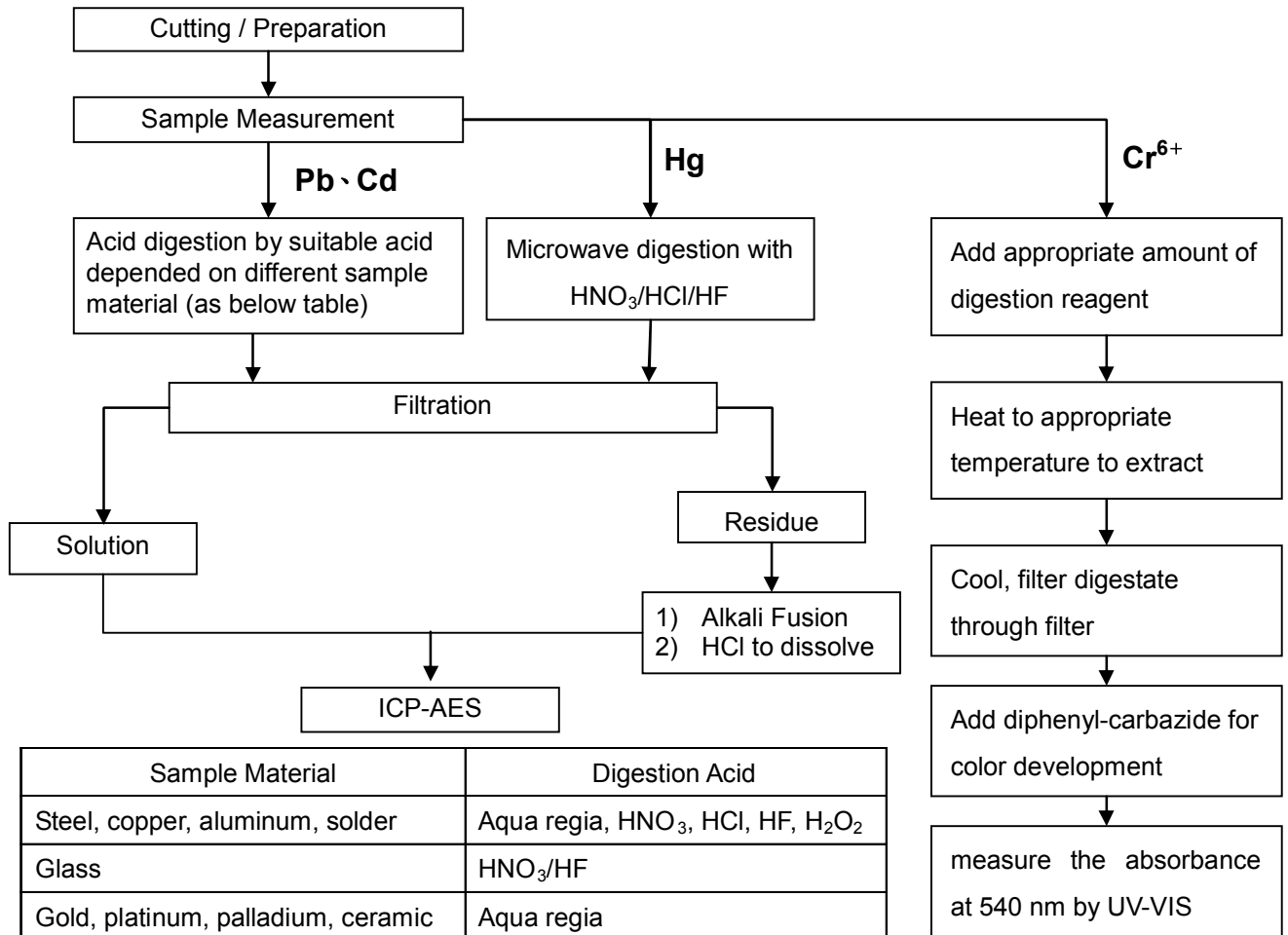
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
 (Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

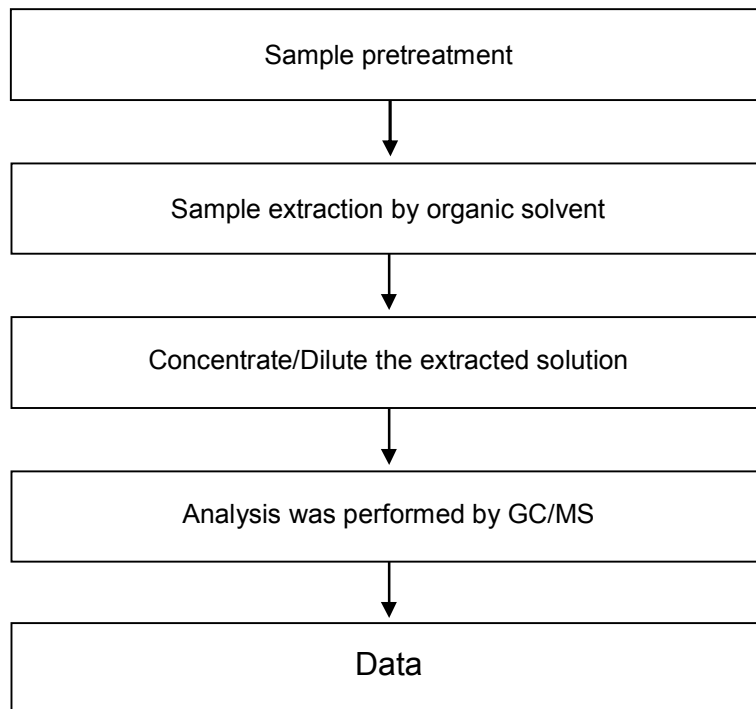
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**Chlorinated Flame retardant analytical flow chart**

- 1) Name of the person who made measurement: Barry Tseng
- 2) Name of the person in charge of measurement: Troy Chang
- Reference method: US EPA 8270D, US EPA 3540
- Test Items: PCBs, PCNs, PCTs, Mirex, CP, MCCP



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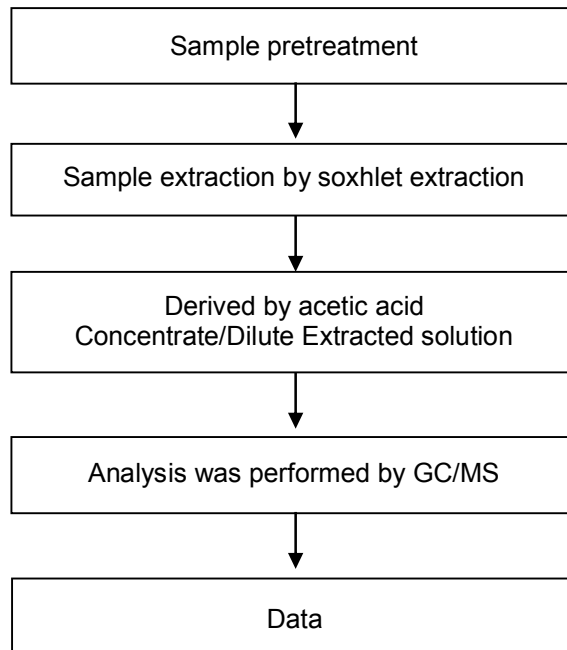


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### Analytical flow chart

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

#### 【 Test Items: TBBP-A 、 Bisphenol A 】



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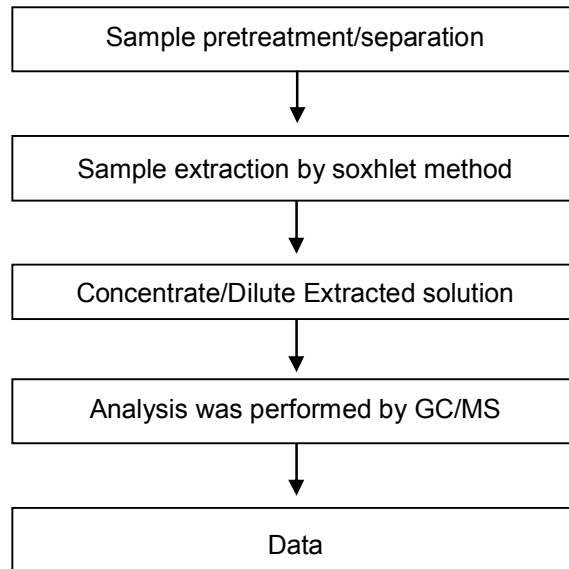


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### Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

**【Test Items: Phthalate、Benzotriazole、HBCDD、NP、DBBT、Organic phosphorus compounds】**



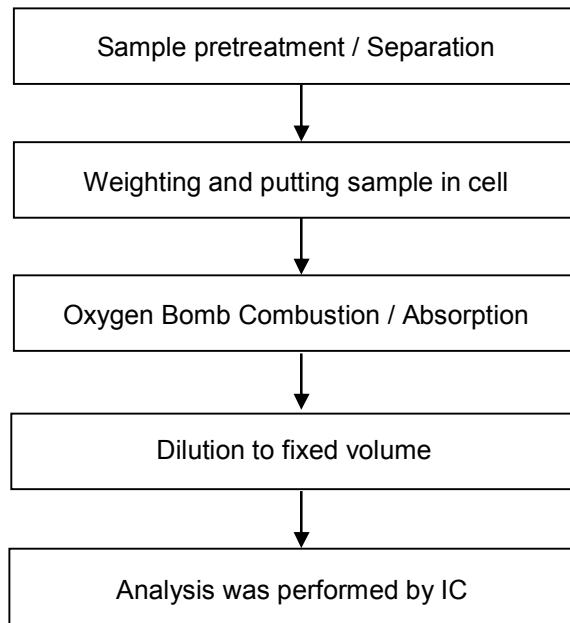
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### Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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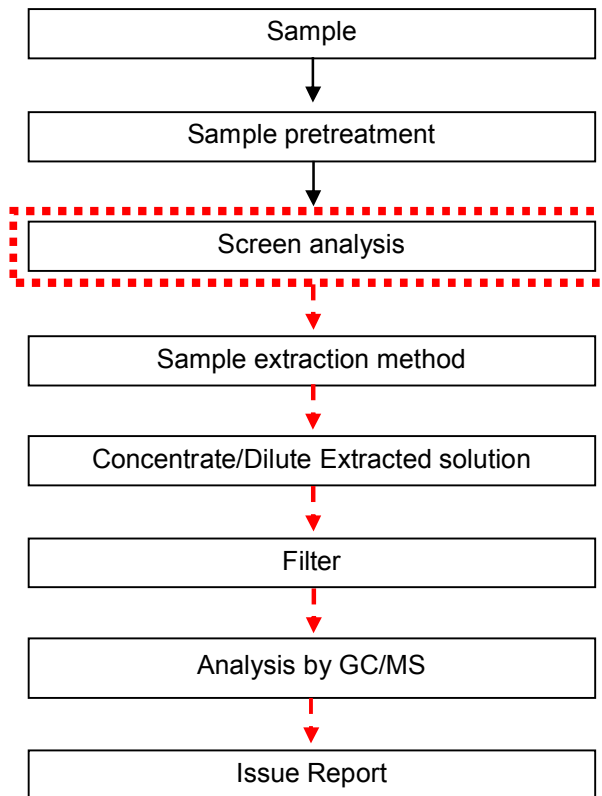
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### Analytical flow chart

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

#### 【 Test Items: PBB/PBDE, TBBP-A-bis 】

First testing process —> Optional screen process ..... Confirmation process - ->



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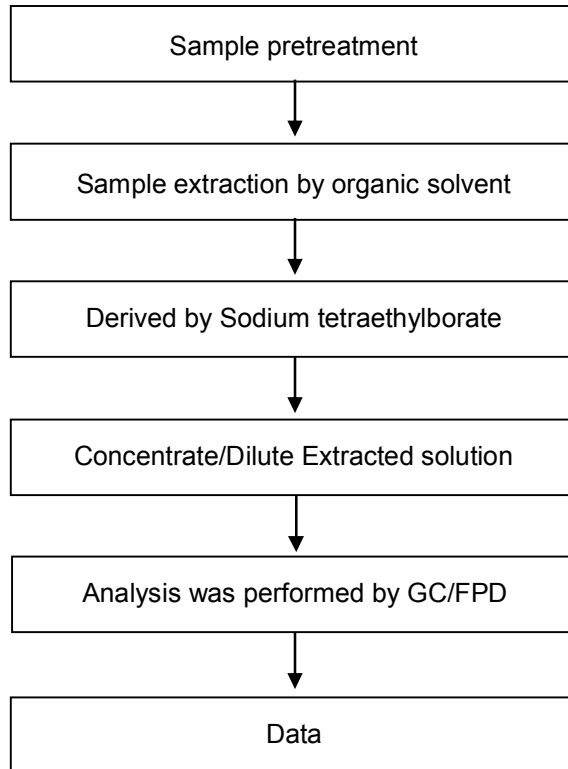




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### Analytical flow chart of Organic-Tin content

- Name of the person who made measurement: Ginny Chen
- Name of the person in charge of measurement: Troy Chang

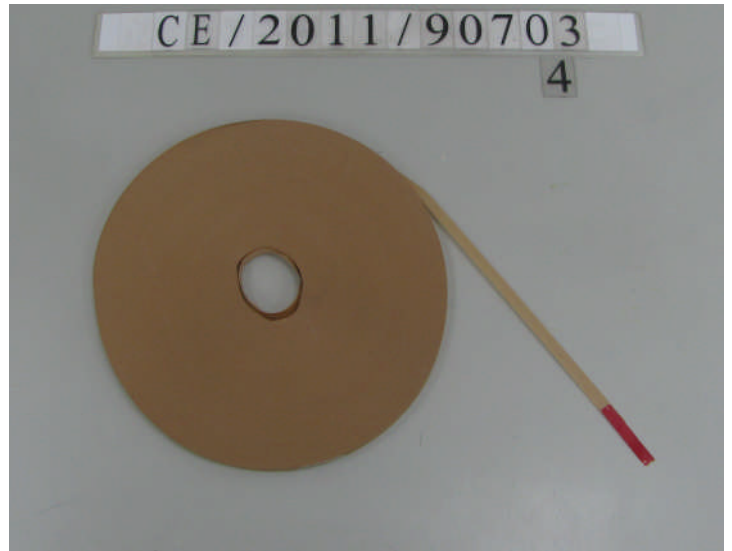
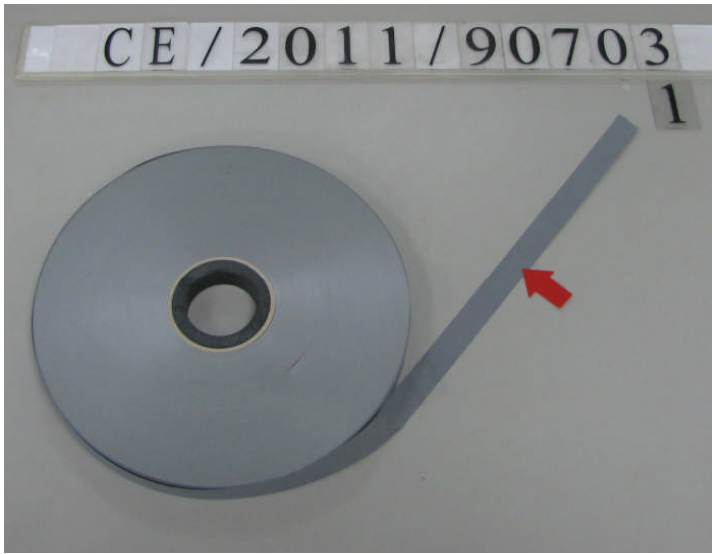


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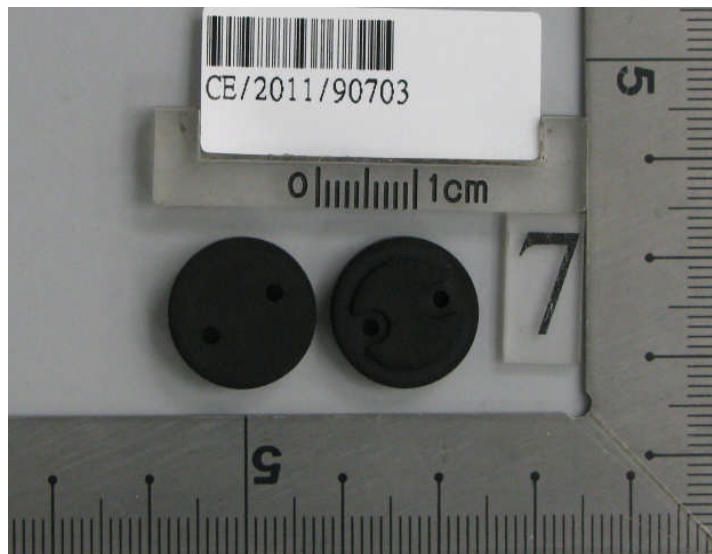
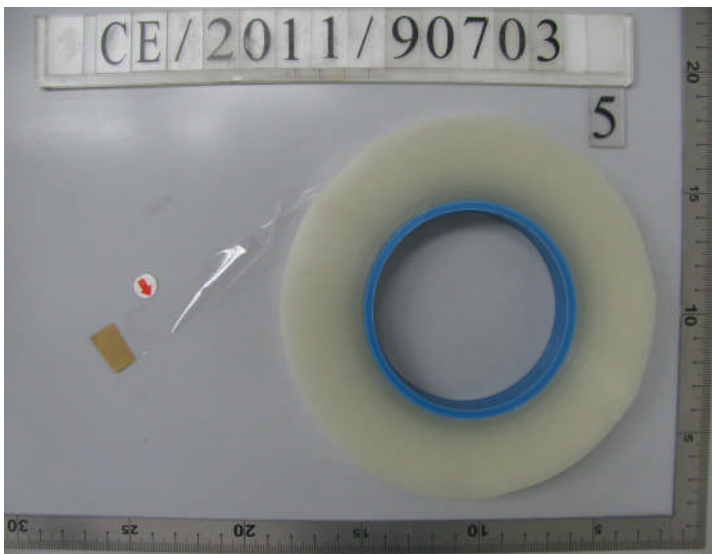


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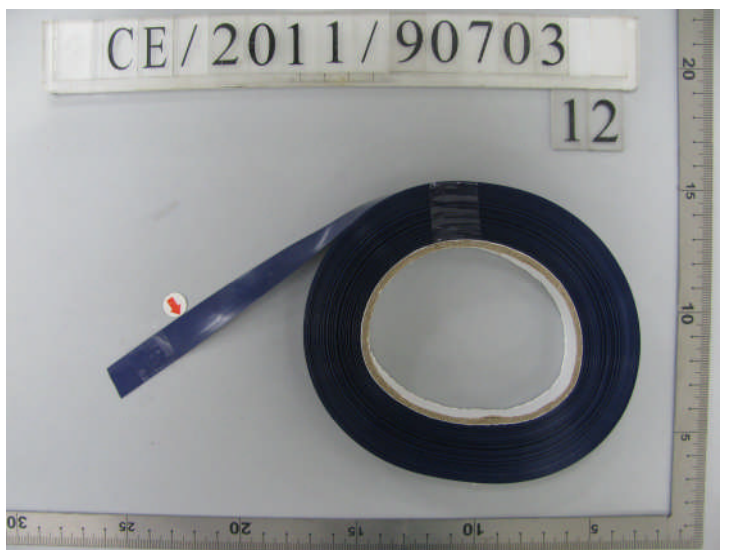
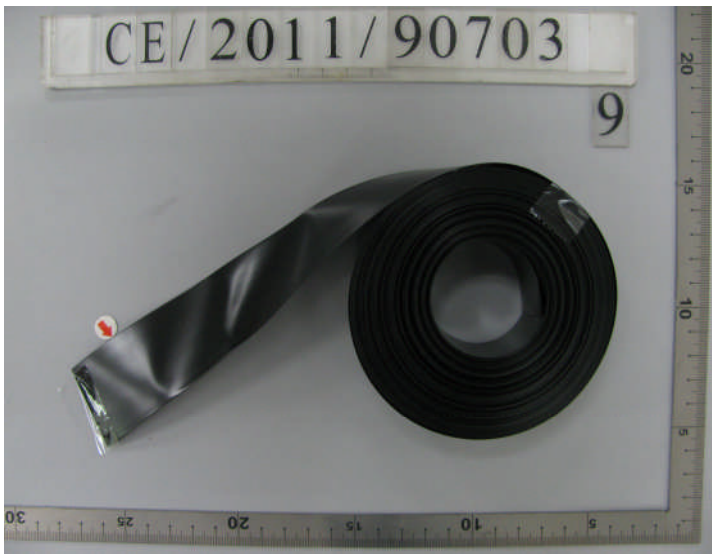
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