

10 Rhs



Test Report

No. VNHL1908013412EE

Date: August 16, 2019 Page 1 of 7

CONG TY CO PHAN SAN XUAT – THUONG MAI BANG KEO VAN PHUOC

1/3 TO KY, AP DONG, XA THOI TAM THON, HUYEN HOC MON, TP. HO CHI MINH, VIET NAM

The following sample was submitted and identified on behalf of the client as below:

SGS Job No. : VNHL1908013412EE

Sample Description : "BANG KEO"

Color : "TRONG"

Characteristic : BOPP

Country of Origin : "VIET NAM"

Country of Destination : "TOAN QUOC"

Sample Receiving Date : AUGUST 12, 2019

Final confirmed Date : AUGUST 12, 2019

Testing Period : AUGUST 12, 2019 TO AUGUST 16, 2019

Test Requested : PLEASE REFER TO THE RESULT SUMMARY.

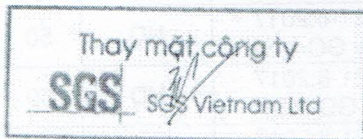
Test Results : PLEASE REFER TO NEXT PAGE(S).

Result Summary :

Test Requested	Conclusion
RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863] (Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP))	Pass/ See result

Signed for and on behalf of

SGS Vietnam LTD



Wong Cho Wing

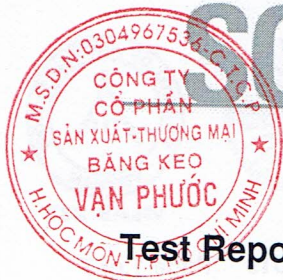
Hardline and E&E Lab Manager

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Test results:

Sample Description: 1. CLEAR TAPE

RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]

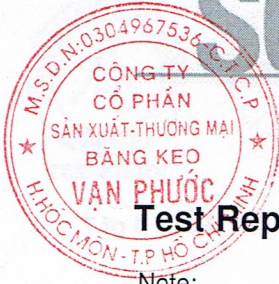
Test Item(s):	Unit	Test Method	Results	MDL	Limit	
			1			
Cadmium(Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	ND	2	100	
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	ND	2	1000	
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	ND	2	1000	
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321-7-2:2017 (Determination of CrVI by UV-VIS)	ND	8	1000	
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	ND	-	1000	
Monobromobiphenyl	mg/kg		ND	5	-	
Dibromobiphenyl	mg/kg		ND	5	-	
Tribromobiphenyl	mg/kg		ND	5	-	
Tetrabromobiphenyl	mg/kg		ND	5	-	
Hexabromobiphenyl	mg/kg		ND	5	-	
Pentabromobiphenyl	mg/kg		ND	5	-	
Heptabromobiphenyl	mg/kg		ND	5	-	
Octabromobiphenyl	mg/kg		ND	5	-	
Nonabromobiphenyl	mg/kg		ND	5	-	
Decabromobiphenyl	mg/kg		ND	5	-	
Sum of PBDEs	mg/kg		With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	ND	-	1000
Monobromodiphenyl ether	mg/kg			ND	5	-
Dibromodiphenyl ether	mg/kg	ND		5	-	
Tribromodiphenyl ether	mg/kg	ND		5	-	
Tetrabromodiphenyl ether	mg/kg	ND		5	-	
Pentabromodiphenyl ether	mg/kg	ND		5	-	
Hexabromodiphenyl ether	mg/kg	ND		5	-	
Heptabromodiphenyl ether	mg/kg	ND		5	-	
Octabromodiphenyl ether	mg/kg	ND		5	-	
Nonabromodiphenyl ether	mg/kg	ND		5	-	
Decabromodiphenyl ether	mg/kg	ND	5	-		
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of DEHP by GC-MS)	ND	50	1000	
Butyl benzyl phthalate (BBP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of BBP by GC-MS)	ND	50	1000	
Dibutyl phthalate (DBP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of DBP by GC-MS)	ND	50	1000	
Diisobutyl phthalate (DIBP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of DIBP by GC-MS)	ND	50	1000	

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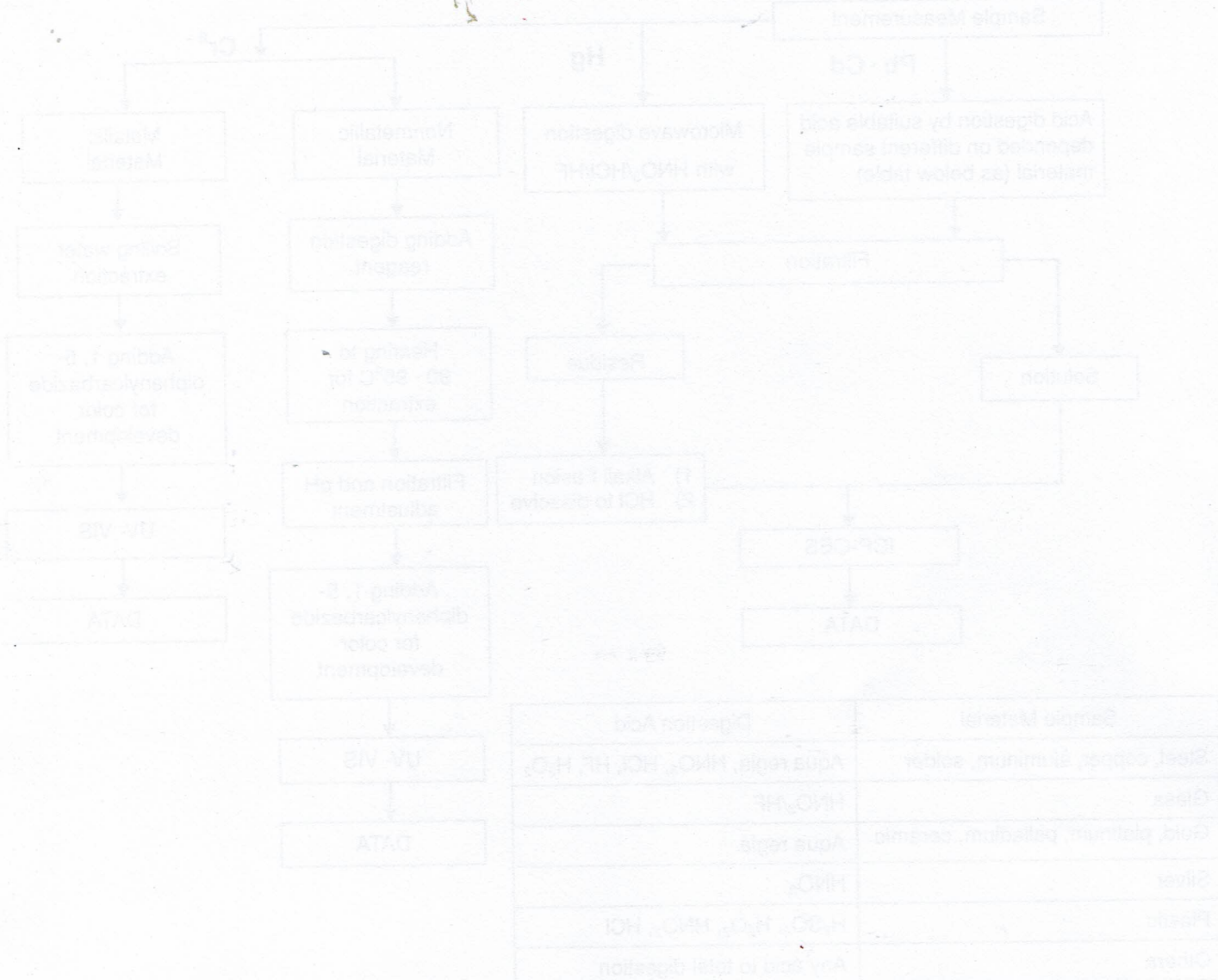
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Note:

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. ND = Not detected
4. - = not regulated
5. IEC 62321 is equivalent to EN 62321
http://www.cenelec.eu/dyn/www/f?p=104:110:721668440899381:::FSP_PROJECT,FSP_LANG_ID:20662,25.
6. The above test(s) was / were accredited ISO 17025:2005 by VILAS
The above test(s) was / were performed by SGS VN's Chemical lab.



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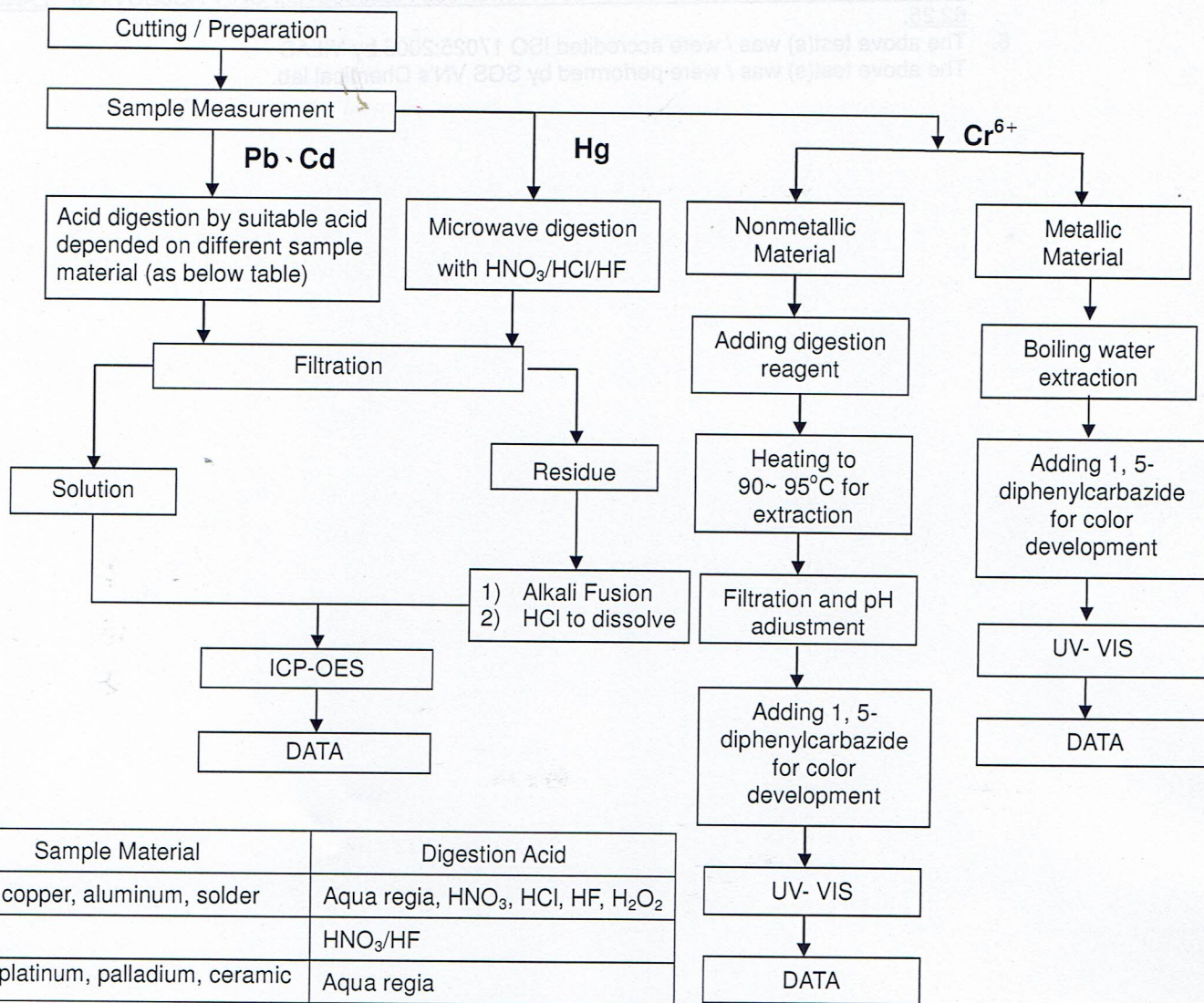
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Flow Chart for RoHS: Pb/Cd/Hg/Cr⁶⁺ Testing

- 1) The samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Operator: Mr. Tho
- 3) Section Chief: Mr. Hai



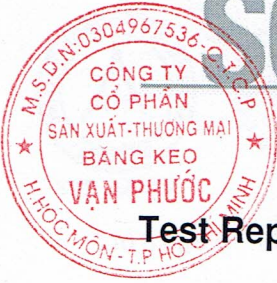
Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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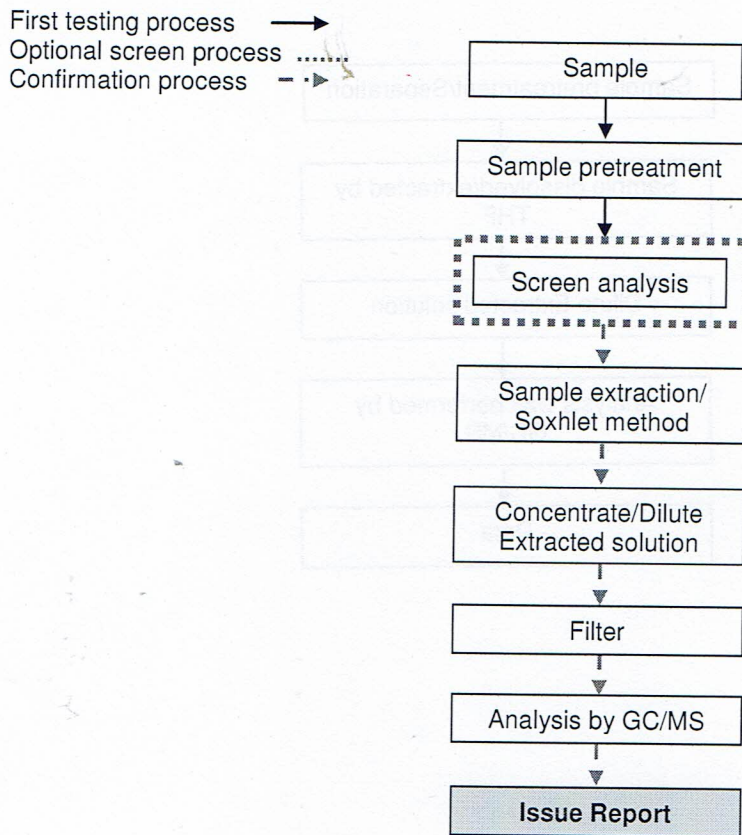
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PPB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Mr. Quoc
- 2) Name of the person in charge of measurement: Mr. Hai



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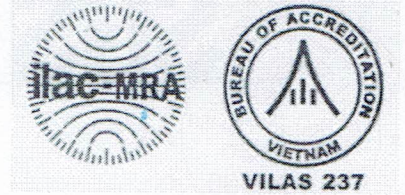
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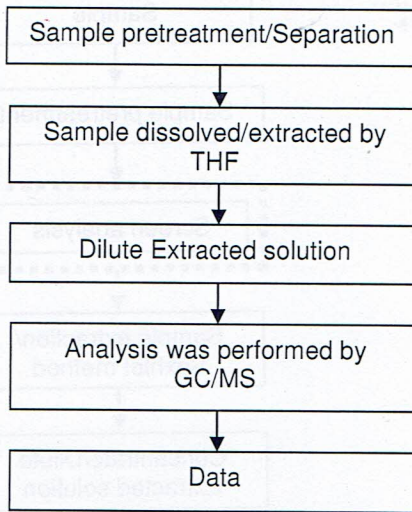


Analytical flow chart of phthalate content

- 1) Name of the person who made measurement: Mr. Quoc
- 2) Name of the person in charge of measurement: Mr. Hai

Test method: IEC 62321-8

First testing process →
 Optional screen process
 Confirmation process ->



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PHOTO OF SUBMITTED SAMPLE FOR TESTING



REPORT RESULTS REFER TO SUBMITTED SAMPLE (S) ONLY
End of Report

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