



Test Report

Report No: BSTSH181111608401CR

Date: Nov.23, 2018

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Applicant : HVB ELECTRONICS CO., LTD.

Address : Rm.B1803, Liyuanshangdu Buiding, Ningbo 315032, China

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

Sample Name : Network Patch Cable
Sample Model : HVB-S/FTP LSZH BC(Cat6, Cat6a, Cat7, Cat8)
HVB-S/FTP PVC BC(Cat6, Cat6a, Cat7, Cat8)
HVB-S/FTP PVC CCA (Cat6, Cat6a, Cat7)
HVB-U/UTP LSZH BC (Cat6a, Cat6, Cat5E)
HVB-U/UTP PVC BC (Cat6a, Cat6, Cat5E)
HVB-U/UTP PVC CCA (Cat6a, Cat6, Cat5E)
HVB-FTP LSZH BC (Cat6a, Cat6, Cat5E)
HVB-FTP PVC BC (Cat6a, Cat6, Cat5E)
HVB-FTP PVC CCA (Cat6a, Cat6, Cat5E)
Instructions: LSZH=Jacket LSZH material
PVC=Jacket PVC material
BC=Bare Copper wires
CCA=Copper clad aluminum wires

Sample Received Date : Nov.18, 2018

Testing Period : Nov.18, 2018 To Nov.23, 2018

Test Requested : Selected test (s) in the selected parts as requested by client with the RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102.

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

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

Signed for and on behalf of



Tony Qian/ Approved Signatory

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Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm ²	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Sample Description:

No.	Name		
1	HVB-S/FTP LSZH BC Cat6a&HVB-FTP LSZH BC (Cat6a, Cat6, Cat5e)&HVB-U/UTP LSZH BC (Cat6a, Cat6, Cat5e)	RJ45 plugs	Nickel plated Copper Shell
2			Plastic Housing Blue transparency color
3			Gold plated PINS contacts
4		Cable LSZH jacket	LSZH Jacket Red color
5			LSZH Jacket Blue color
6			LSZH Jacket Yellow color
7			LSZH Jacket Grey color
8			LSZH Jacket White color
9			LSZH Jacket Black color
10			LSZH Jacket Green color
11			LSZH Jacket Orange color
12			LSZH Jacket Purple color
13		Copper Wires	BC wires conductors
14		Plastic PE isolation	Plastic PE white
15			Plastic PE Orange
16			Plastic PE Blue
17			Plastic PE Green
18			Plastic PE Brown
19		Braiding Aluminum wires	Aluminum wires
20		Aluminum Foil	Aluminum Foil

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No.	Name		
21		RJ45 plugs	Nickel plated Copper Shell
22			Plastic Housing transparency color
23			Plastic Housing Blue transparency color
24			Plastic Housing Red transparency color
25			Plastic Housing Yellow transparency color
26			Gold plated PINS contacts
27		Cable PVC jacket	PVC Jacket Red color
28			PVC Jacket Blue color
29			PVC Jacket Yellow color
30			PVC Jacket Grey color
31	PVC Jacket White color		
32	PVC Jacket Black color		
33	PVC Jacket Green color		
34	PVC Jacket Orange color		
35	PVC Jacket Purple color		
36		Copper clad aluminum wire conductor	CCA wire conductors
37	Plastic PE isolation		Plastic PE white
38		Plastic PE Orange	
39		Plastic PE Blue	
40		Plastic PE Green	
41		Plastic PE Brown	

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No.	Name		
42	HVB-S/FTP PVC CCA (Cat7,Cat6a, Cat6)&HVB-FTP PVC CCA (Cat6a, Cat6, Cat5e)&HVB-U/UTP PVC CCA (Cat6a, Cat6, Cat5e)	Aluminum Foil	Aluminum wires
43		Braiding Aluminum wires	Braiding Aluminum wires
44		Aluminum wires	Aluminum wires
45		tin plated	Draiding tin plated copper wire
46		tin plated	drain tin plated copper wires
47		RJ45 plugs	
48			Plastic Housing transparency color
49			Plastic Housing Blue transparency color
50			Plastic Housing Red transparency color
51			Plastic Housing Yellow transparency color
52			Gold plated PINS contacts
53	HVB-S/FTP PVC BC (Cat8, Cat7,Cat6a, Cat6)&HVB-FTP PVC BC (Cat6a, Cat6, Cat5e)&HVB-U/UTP PVC BC (Cat6a, Cat6, Cat5e)	Cable PVC jacket	PVC Jacket Red color
54			PVC Jacket Blue color
55			PVC Jacket Yellow color
56			PVC Jacket Grey color
57			PVC Jacket White color
58			PVC Jacket Black color
59			PVC Jacket Green color
60			PVC Jacket Orange color
61			PVC Jacket Purple color
62			BC wires conductors

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No.	Name		
63	HVB-S/FTP PVC BC (Cat8, Cat7,Cat6a, Cat6)&HVB-FTP PVC BC (Cat6a, Cat6, Cat5e)&HVB-U/UTP PVC BC (Cat6a, Cat6, Cat5e)	Plastic PE isolation	Plastic PE white
64			Plastic PE Orange
65			Plastic PE Blue
66			Plastic PE Green
67			Plastic PE Brown
68		Aluminum Foil	Aluminum Foil
69		Braiding Aluminum wires	Aluminum wires
70		tin plated	Draiding tin plated copper wire
71		tin plated	drain tin plated copper wires

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Test Result:

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	58	N.D.	158	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	--	N.D.	N.D.
PBDEs	--	N.D.	--	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	N.D.	--	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.	--	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	--	N.D.	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.	--	N.D.	N.D.
Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.

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Test Item(s)	No.11	No.12	No.13	No.14	No.15
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	185	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	--	N.D.	N.D.
PBDEs	N.D.	N.D.	--	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	--	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	--	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	--	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	--	N.D.	N.D.
Test Item(s)	No.16	No.17	No.18	No.19	No.20
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	547	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	--	--
PBDEs	N.D.	N.D.	N.D.	--	--
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	--	--
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	--	--
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	--	--
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	--	--

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Test Item(s)	No.21	No.22	No.23	No.24	No.25
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	55	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	N.D.	N.D.	N.D.
PBDEs	--	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.	N.D.	N.D.	N.D.
Test Item(s)	No.26	No.27	No.28	No.29	No.30
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	157	51	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	N.D.	N.D.	N.D.
PBDEs	--	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.	N.D.	N.D.	N.D.

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Test Item(s)	No.31	No.32	No.33	No.34	No.35
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	123	40	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Test Item(s)	No.36	No.37	No.38	No.39	No.40
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	319	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	N.D.	N.D.	N.D.
PBDEs	--	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.	N.D.	N.D.	N.D.

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Test Item(s)	No.41	No.42	No.43	No.44	No.45
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	--	--	--	--
PBDEs	--	--	--	--	--
Dibutyl Phthalate (DBP)	--	--	--	--	--
Butyl benzyl phthalate (BBP)	--	--	--	--	--
Di-(2-ethylhexyl) Phthalate(DEHP)	--	--	--	--	--
Diisobutyl phthalate (DIBP)	--	--	--	--	--
Test Item(s)	No.46	No.47	No.48	No.49	No.50
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	61	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	--	N.D.	N.D.	N.D.
PBDEs	--	--	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	--	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	--	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	--	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	--	--	N.D.	N.D.	N.D.

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Test Item(s)	No.51	No.52	No.53	No.54	No.55
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	167	N.D.	86	49
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	--	N.D.	N.D.	N.D.
PBDEs	N.D.	--	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	--	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	--	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	--	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	--	N.D.	N.D.	N.D.
Test Item(s)	No.56	No.57	No.58	No.59	No.60
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	66	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.

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Test Item(s)	No.61	No.62	No.63	No.64	No.65
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	74	131	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	--	N.D.	N.D.	N.D.
PBDEs	N.D.	--	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	--	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	--	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	--	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	--	N.D.	N.D.	N.D.
Test Item(s)	No.66	No.67	No.68	No.69	No.70
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	520	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	--	--	--
PBDEs	N.D.	N.D.	--	--	--
Dibutyl Phthalate (DBP)	N.D.	N.D.	--	--	--
Butyl benzyl phthalate (BBP)	N.D.	N.D.	--	--	--
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	--	--	--
Diisobutyl phthalate (DIBP)	N.D.	N.D.	--	--	--

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Test Item(s)	No.71
Cadmium (Cd)	N.D.
Lead (Pb)	N.D.
Mercury (Hg)	N.D.
Hexavalent Chromium (CrVI)	N.D.
PBBs	--
PBDEs	--
Dibutyl Phthalate (DBP)	--
Butyl benzyl phthalate (BBP)	--
Di-(2-ethylhexyl) Phthalate(DEHP)	--
Diisobutyl phthalate (DIBP)	--

- Note:**
1. mg/kg= ppm
 2. N.D.= Not Detected(<MDL)
 3. MDL = Method Detection Limit
 4. -- = No Testing
 5. when Cr(VI) in a sample is detected below the 0.10 $\mu\text{g}/\text{cm}^2$ LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above 0.13 $\mu\text{g}/\text{cm}^2$, the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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Test Report

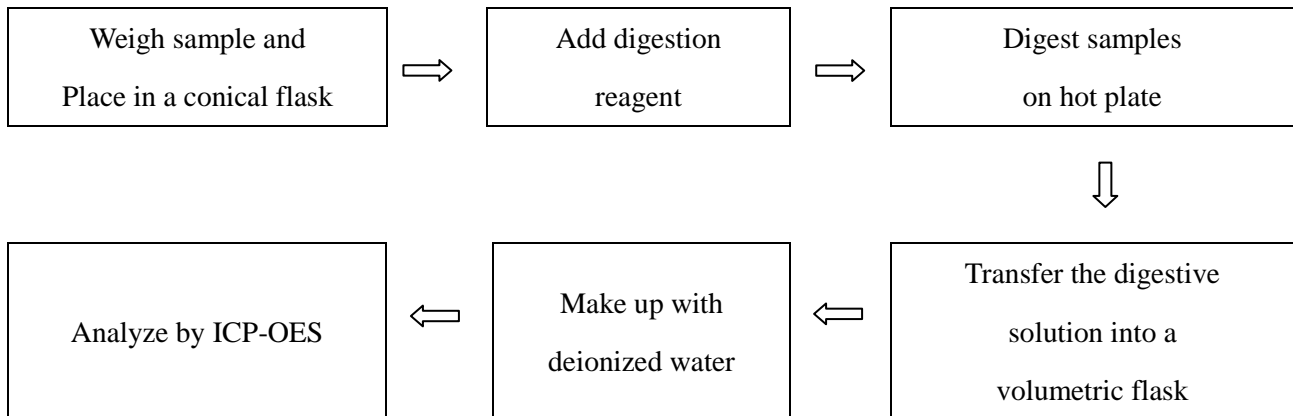
Report No: BSTSH181111608401CR

Date: Nov.23, 2018

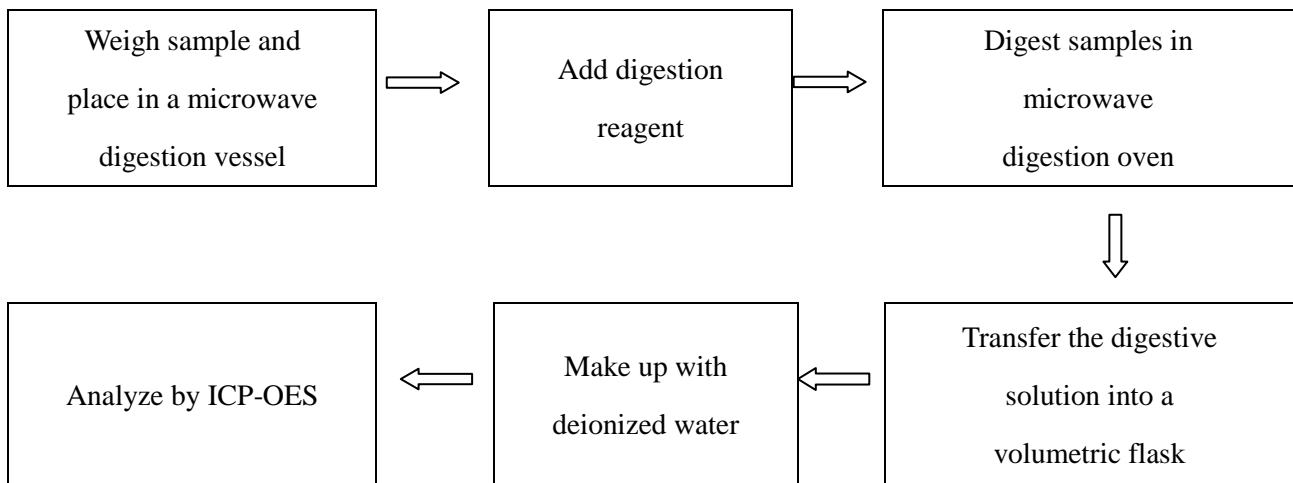
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Test Process:

1. Test for Cd/Pb Content



2. Test for Hg Content



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Test Report

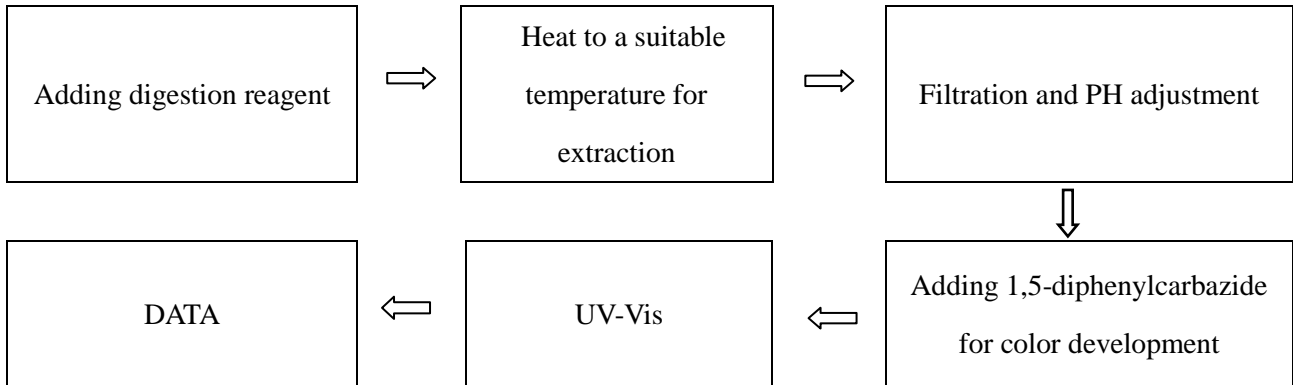
Report No: BSTSH181111608401CR

Date: Nov.23, 2018

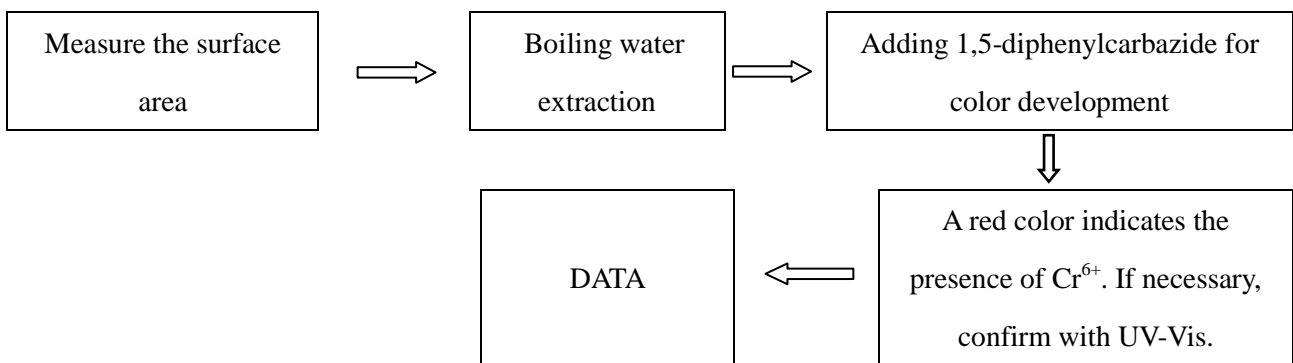
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3. Test for Chromium (VI) Content

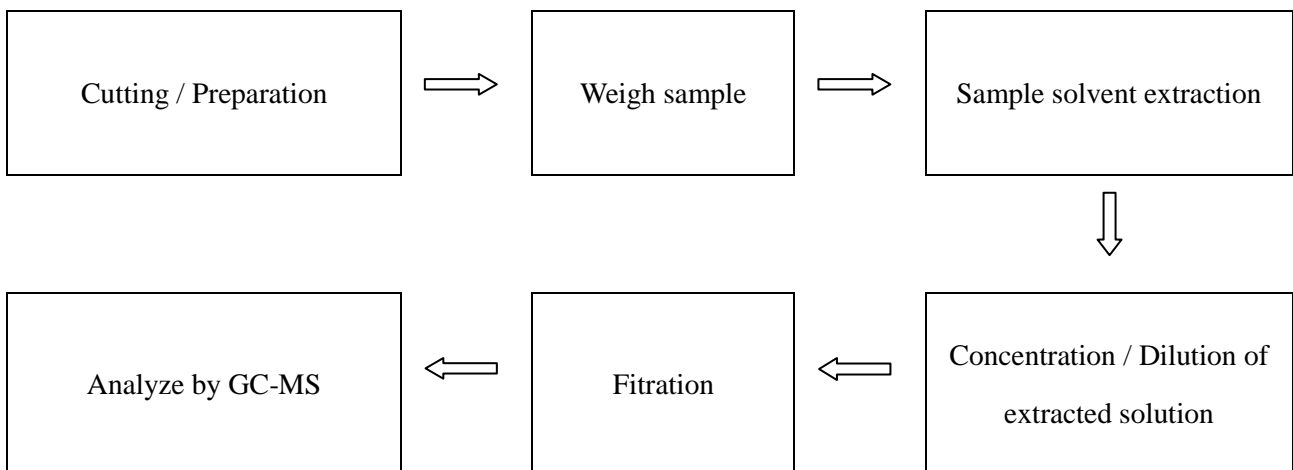
Nonmetal material



Metal material



4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



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Sample Photo:



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*** End of Report ***

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