

## Declaration of RoHS/REACH Compliance (RoHS/REACH符合聲明)

Vendor code(供應商代號): AC POWER CORD

Company Name(公司名稱): Yung Li Co., LTD

Registered Address(地址): DA PU INDUSTRIAL ZONE, CHANGPING TOWN, DONG GUAN CITY, GUANGDONG 523571 CHINA

This document shall serve as formal declaration that products manufactured by us are in compliance with the European Union RoHS directive and REACH directive with respect to the related substances. (本檔正式聲明，本公司所生產的產品符合歐盟 RoHS 指令和 REACH 指令對於相關限用物質的要求)

☒ Any potential trace contamination level of the relative substances are below the maximum level set by RoHS directive, or are exempt due to their application that is specified by subsequent amendments of the Directive **2015/863**. (其中任何相關限用物質的含量均不超過RoHS指令**2015/863**所設定的最大值，或者符合其後續修訂指令的豁免要求)

☐ Our product contains SVHC 209 substances listed in REACH directive but the content is less than 0.1% in weight. Detail list of content substances is attached. (我們的產品含有 Reach 高關注度物質，但總含量低於重量的0.1%，提供產品物質清單如附件)

☒ Our product don't contain any SVHC209 substance listed in REACH directive. (我們的產品中不含有任何 Reach 高關注度物質)

Signature(簽名) Robert Chiang

Company stamp(公司印章):

Title (職務) Quality Manager

Date (日期) 20.08.05





# Test Report

Report No. A219029333410101

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**Applicant** YUNG LI CO.,LTD

**Address** DA PU INDUSTRIAL ZONE,GANG ZI,CHANG PING TOWN, DONG GUAN CITY,GUANG DONG 523571 CHINA

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

Sample No.	Sample Name(s)	Client Reference Information
001	PVC BLACK	Please refer to the page 31-33
002	PVC WHITE	
003	PVC BROWN	
004	PVC BLUE	
005	PVC YELLOW	
006	PVC GREEN	
007	PVC RED	
008	PVC ORANGE	
009	PVC PURPLE	
010	PVC PINK	
011	INK	
012	INNERBODY	
013	CABLE COPPER	
014	COPPER ALLOY	
015	TERMINAL COPPER	

Sample Received Date Nov. 5, 2019

Testing Period Nov. 5, 2019 to Nov. 8, 2019

**Test Requested** As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Perfluorooctane Sulfonates (PFOS), Tetrabromobisphenol A (TBBP-A), Phthalates, Polycyclic Aromatic Hydrocarbons (PAHs), Red phosphorus in the submitted sample(s).

**Test Method/Test Result(s)** Please refer to the following page(s).

Tested by

*Ada Zhang*

Reviewed by

*Tori Xia*

Approved by

*Hill Zheng*

Date

Nov. 8, 2019

Hill Zheng  
Technical Manager

No. B418203840

Centre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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## Conclusion

Tested Sample	According to standard/directive	Result
Polycyclic Aromatic Hydrocarbons(PAHs)	AfPS GS 2014:01 PAK, Category 2	PASS

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## Test Method

Tested Item(s)	Test Method	Measured Equipment(s)
Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2014:01 PAK	GC-MS
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015	UV-Vis
	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Perfluorooctane Sulfonates (PFOS)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
Tetrabromobisphenol A (TBBP-A)	Refer to US EPA 3550C:2007 & US EPA 8270E:2017	GC-MS
Phthalates	Refer to EN 14372:2004(E)	GC-MS
Red phosphorus	Refer to GB/T 9722-2006	PY-GC-MS

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## Test Result(s)

Tested Item(s)	Result			MDL
	001	002	003	
Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.	8 mg/kg
	--	--	--	0.10 µg/cm <sup>2</sup> (LOQ)

Tested Item(s)	Result			MDL
	004	005	006	
Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.	8 mg/kg
	--	--	--	0.10 µg/cm <sup>2</sup> (LOQ)

Tested Item(s)	Result			MDL
	007	008	009	
Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.	8 mg/kg
	--	--	--	0.10 µg/cm <sup>2</sup> (LOQ)

Tested Item(s)	Result			MDL
	010	011	012	
Lead (Pb)	N.D.	N.D.	9 mg/kg	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.	8 mg/kg
	--	--	--	0.10 µg/cm <sup>2</sup> (LOQ)

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Tested Item(s)	Result			MDL
	013	014	015	
Lead (Pb)	N.D.	16 mg/kg	20 mg/kg	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	--	--	--	8 mg/kg
	N.D.▼	N.D.▼	N.D.▼	0.10 µg/cm <sup>2</sup> (LOQ)

Tested Item(s)	Result			MDL
	001	002	003	
Polybrominated Biphenyls(PBBs)				
Monobromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result			MDL
	004	005	006	
Polybrominated Biphenyls(PBBs)				
Monobromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg

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Tested Item(s)	Result			MDL
	007	008	009	
Polybrominated Biphenyls(PBBs)				
Monobromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result			MDL
	010	011	012	
Polybrominated Biphenyls(PBBs)				
Monobromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg



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Tested Item(s)	Result			MDL
	001	002	003	
Polybrominated Diphenyl Ethers (PBDEs)				
Monobromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result			MDL
	004	005	006	
Polybrominated Diphenyl Ethers (PBDEs)				
Monobromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg



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Tested Item(s)	Result			MDL
	007	008	009	
Polybrominated Diphenyl Ethers (PBDEs)				
Monobromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result			MDL
	010	011	012	
Polybrominated Diphenyl Ethers (PBDEs)				
Monobromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg

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Tested Item(s)	Result			MDL
	001	002	003	
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg

Tested Item(s)	Result			MDL
	004	005	006	
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg

Tested Item(s)	Result			MDL
	007	008	009	
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg

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Tested Item(s)	Result			MDL
	010	011	012	
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg

Tested Item(s)	Result			MDL
	001	002	003	
Perfluorooctane Sulfonates (PFOS)	N.D.	N.D.	N.D.	0.01 mg/kg

Tested Item(s)	Result			MDL
	004	005	006	
Perfluorooctane Sulfonates (PFOS)	N.D.	N.D.	N.D.	0.01 mg/kg

Tested Item(s)	Result			MDL
	007	008	009	
Perfluorooctane Sulfonates (PFOS)	N.D.	N.D.	N.D.	0.01 mg/kg

Tested Item(s)	Result			MDL
	010	011	012	
Perfluorooctane Sulfonates (PFOS)	N.D.	N.D.	N.D.	0.01 mg/kg

Tested Item(s)	Result			MDL
	001	002	003	
Tetrabromobisphenol A (TBBP-A)	N.D.	N.D.	N.D.	5 mg/kg

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Tested Item(s)	Result			MDL
	004	005	006	
Tetrabromobisphenol A (TBBP-A)	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result			MDL
	007	008	009	
Tetrabromobisphenol A (TBBP-A)	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result			MDL
	010	011	012	
Tetrabromobisphenol A (TBBP-A)	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result			MDL
	001	002	003	
Phthalates				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	30 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	30 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	30 mg/kg
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	N.D.	N.D.	30 mg/kg
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	N.D.	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	N.D.	N.D.	50 mg/kg
Dimethyl phthalate (DMP) CAS#:131-11-3	N.D.	N.D.	N.D.	30 mg/kg
Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	N.D.	N.D.	30 mg/kg
Dipropyl phthalate (DPrP) CAS#:131-16-8	N.D.	N.D.	N.D.	30 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	30 mg/kg

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Tested Item(s)	Result			MDL
	001	002	003	
Phthalates				
Dipentyl phthalate (DPP) CAS#:131-18-0	N.D.	N.D.	N.D.	30 mg/kg
Diheptyl phthalate (DHP) CAS#:3648-21-3	N.D.	N.D.	N.D.	30 mg/kg
Dicyclohexyl phthalate (DCHP) CAS#:84-61-7	N.D.	N.D.	N.D.	30 mg/kg
Diisooctyl phthalate (DIOP) CAS#:27554-26-3	N.D.	N.D.	N.D.	50 mg/kg
Dinonyl phthalate (DNP) CAS#:84-76-4	N.D.	N.D.	N.D.	30 mg/kg
Diisononyl adipate (DINA) CAS#:33703-08-1	N.D.	N.D.	N.D.	50 mg/kg

Tested Item(s)	Result			MDL
	004	005	006	
Phthalates				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	30 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	30 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	30 mg/kg
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	N.D.	N.D.	30 mg/kg
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	N.D.	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	N.D.	N.D.	50 mg/kg
Dimethyl phthalate (DMP) CAS#:131-11-3	N.D.	N.D.	N.D.	30 mg/kg
Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	N.D.	N.D.	30 mg/kg
Dipropyl phthalate (DPrP) CAS#:131-16-8	N.D.	N.D.	N.D.	30 mg/kg

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Tested Item(s)	Result			MDL
	004	005	006	
Phthalates				
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	30 mg/kg
Dipentyl phthalate (DPP) CAS#:131-18-0	N.D.	N.D.	N.D.	30 mg/kg
Diheptyl phthalate (DHP) CAS#:3648-21-3	N.D.	N.D.	N.D.	30 mg/kg
Dicyclohexyl phthalate (DCHP) CAS#:84-61-7	N.D.	N.D.	N.D.	30 mg/kg
Diisooctyl phthalate (DIOP) CAS#:27554-26-3	N.D.	N.D.	N.D.	50 mg/kg
Dinonyl phthalate (DNP) CAS#:84-76-4	N.D.	N.D.	N.D.	30 mg/kg
Diisononyl adipate (DINA) CAS#:33703-08-1	N.D.	N.D.	N.D.	50 mg/kg

Tested Item(s)	Result			MDL
	007	008	009	
Phthalates				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	30 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	30 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	30 mg/kg
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	N.D.	N.D.	30 mg/kg
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	N.D.	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	N.D.	N.D.	50 mg/kg
Dimethyl phthalate (DMP) CAS#:131-11-3	N.D.	N.D.	N.D.	30 mg/kg
Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	N.D.	N.D.	30 mg/kg

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Tested Item(s)	Result			MDL
	007	008	009	
Phthalates				
Dipropyl phthalate (DPrP) CAS#:131-16-8	N.D.	N.D.	N.D.	30 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	30 mg/kg
Dipentyl phthalate (DPP) CAS#:131-18-0	N.D.	N.D.	N.D.	30 mg/kg
Diheptyl phthalate (DHP) CAS#:3648-21-3	N.D.	N.D.	N.D.	30 mg/kg
Dicyclohexyl phthalate (DCHP) CAS#:84-61-7	N.D.	N.D.	N.D.	30 mg/kg
Diisooctyl phthalate (DIOP) CAS#:27554-26-3	N.D.	N.D.	N.D.	50 mg/kg
Dinonyl phthalate (DNP) CAS#:84-76-4	N.D.	N.D.	N.D.	30 mg/kg
Diisononyl adipate (DINA) CAS#:33703-08-1	N.D.	N.D.	N.D.	50 mg/kg

Tested Item(s)	Result			MDL
	010	011	012	
Phthalates				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	30 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	30 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	30 mg/kg
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	N.D.	N.D.	30 mg/kg
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	N.D.	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	N.D.	N.D.	50 mg/kg
Dimethyl phthalate (DMP) CAS#:131-11-3	N.D.	N.D.	N.D.	30 mg/kg



# Test Report

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Tested Item(s)	Result			MDL
	010	011	012	
Phthalates				
Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	N.D.	N.D.	30 mg/kg
Dipropyl phthalate (DPrP) CAS#:131-16-8	N.D.	N.D.	N.D.	30 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	30 mg/kg
Dipentyl phthalate (DPP) CAS#:131-18-0	N.D.	N.D.	N.D.	30 mg/kg
Diheptyl phthalate (DHP) CAS#:3648-21-3	N.D.	N.D.	N.D.	30 mg/kg
Dicyclohexyl phthalate (DCHP) CAS#:84-61-7	N.D.	N.D.	N.D.	30 mg/kg
Diisooctyl phthalate (DIOP) CAS#:27554-26-3	N.D.	N.D.	N.D.	50 mg/kg
Dinonyl phthalate (DNP) CAS#:84-76-4	N.D.	N.D.	N.D.	30 mg/kg
Diisononyl adipate (DINA) CAS#:33703-08-1	N.D.	N.D.	N.D.	50 mg/kg

# Test Report

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Tested Item(s)	Result				MDL
	001	002	003	004	
Polycyclic Aromatic Hydrocarbons (PAHs)					
Naphthalene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Acenaphthylene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Acenaphthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Fluorene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Phenanthrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(a)anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Chrysene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(b)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(a)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Indenol(1,2,3-cd)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Dibenzo(a,h)anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(g,h,i)perylene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(j)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(e)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Sum (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	N.D.	N.D.	N.D.	/
Sum 18 PAHs	N.D.	N.D.	N.D.	N.D.	/

# Test Report

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Tested Item(s)	Result				MDL
	005	006	007	008	
Polycyclic Aromatic Hydrocarbons (PAHs)					
Naphthalene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Acenaphthylene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Acenaphthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Fluorene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Phenanthrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(a)anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Chrysene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(b)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(a)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Indenol(1,2,3-cd)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Dibenzo(a,h)anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(g,h,i)perylene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(j)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(e)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Sum (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	N.D.	N.D.	N.D.	/
Sum 18 PAHs	N.D.	N.D.	N.D.	N.D.	/

# Test Report

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Tested Item(s)	Result				MDL
	009	010	011	012	
Polycyclic Aromatic Hydrocarbons (PAHs)					
Naphthalene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Acenaphthylene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Acenaphthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Fluorene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Phenanthrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(a)anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Chrysene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(b)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(a)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Indenol(1,2,3-cd)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Dibenzo(a,h)anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(g,h,i)perylene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(j)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(e)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Sum (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	N.D.	N.D.	N.D.	/
Sum 18 PAHs	N.D.	N.D.	N.D.	N.D.	/

Tested Item(s)	Result				MDL
	001	002	003	004	
Red phosphorus	Negative*	Negative*	Negative*	Negative*	500 mg/kg

Tested Item(s)	Result				MDL
	005	006	007	008	
Red phosphorus	Negative*	Negative*	Negative*	Negative*	500 mg/kg

Tested Item(s)	Result				MDL
	009	010	011	012	
Red phosphorus	Negative*	Negative*	Negative*	Negative*	500 mg/kg

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**Limits for PAHs content (mg/kg) for material of (grip) surfaces, which are to be categorized on account of the results of the risk analysis.**

Parameters	Category 1	Category 2		Category 3	
	Materials intended to be put in the mouth or materials of toys with foreseeable long-term skin contact(longer than 30 seconds)	Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact <sup>#</sup>		Materials not covered by category 1 or 2 with foreseeable skin contact up to 30seconds (short term skin contact)	
		Toys covered by Directive 2009/48/EC	Other products	Toys covered by Directive 2009/48/EC	Other products
Benzo[a]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[e]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[a]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[b]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[j]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[k]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo[a,h]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[g,h,i]perylene	<0.2	<0.2	<0.5	<0.5	<1
Indenol[1,2,3-cd]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene	<1 Sum	<5 Sum	<10 Sum	<20 Sum	<50 Sum
Naphthalene	<1	<2		<10	
Sum 18 PAHs	<1	<5	<10	<20	<50

<sup>#</sup> Formulation “of repeated short-term skin contact” REACH Annex XVII No. 50 supplement (REGULATION (EU) No.1272/2013)

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**Remark:** -MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10  $\mu\text{g}/\text{cm}^2$

-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10  $\mu\text{g}/\text{cm}^2$ . The coating is considered a non-Cr(VI) based coating.

-Negative = Not Contained

-The red phosphorus is qualified by PY-GC-MS method which detect pyrolysis products P4 of red phosphorus. But there is a false positive risk by performing this method, since P4 could also generate while the phosphate and organic phosphate coexist with some strong oxidizing or reductant agent in pyrolysis process.

-\*Result for reference only.

**Note:** The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

## Sample/Part Description

- 001 Black plastic grains
- 002 White plastic grains
- 003 Brown plastic grains
- 004 Blue plastic grains
- 005 Yellow plastic grains
- 006 Green plastic grains
- 007 Red plastic grains
- 008 Orange plastic grains
- 009 Purple plastic grains
- 010 Pink plastic grains
- 011 White ink
- 012 White plastic
- 013 Cupreous metal
- 014 Metal base
- 015 Golden metal

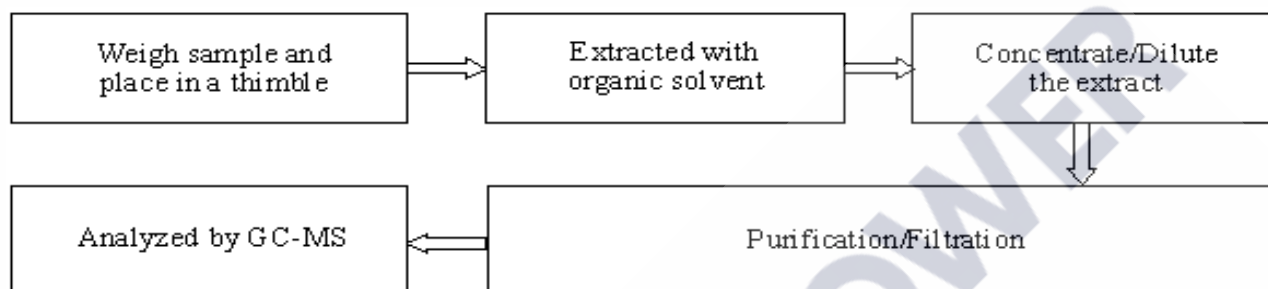
# Test Report

Report No. A219029333410101

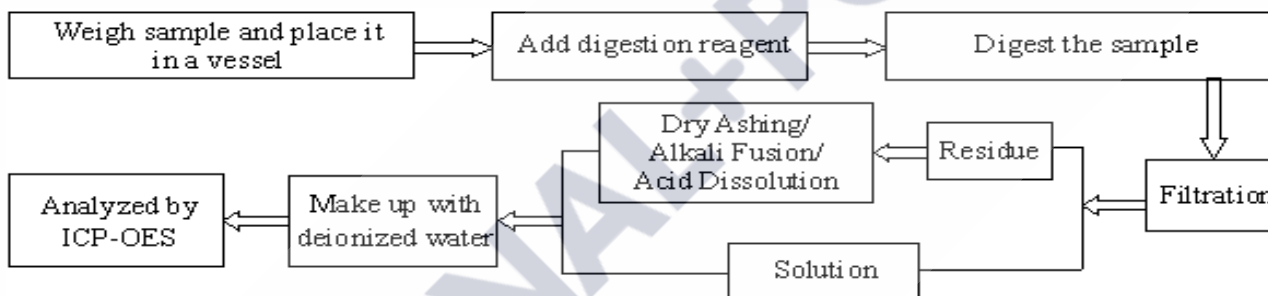
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## Test Process

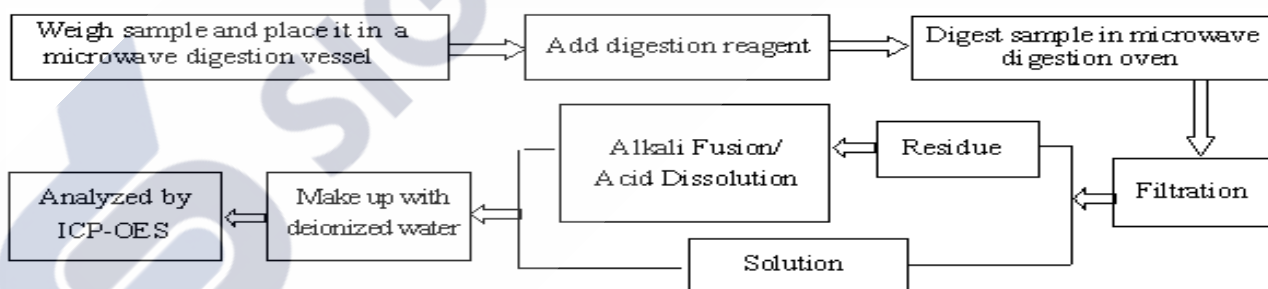
### 1. Polycyclic Aromatic Hydrocarbons (PAHs)



### 2. Lead(Pb), Cadmium(Cd), Chromium(Cr)

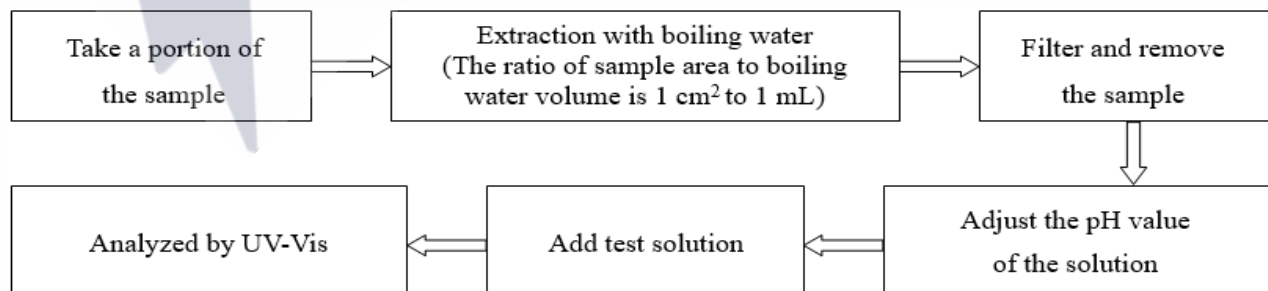


### 3. Mercury(Hg)



### 4. Hexavalent Chromium(Cr(VI))

#### (1) IEC 62321-7-1:2015



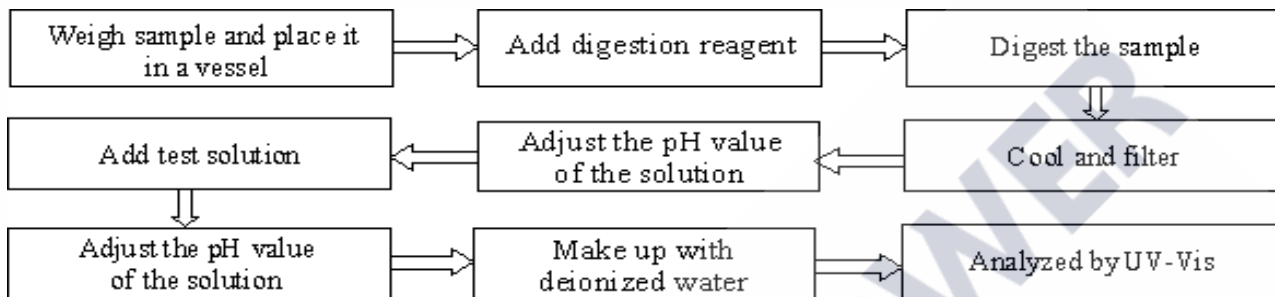


# Test Report

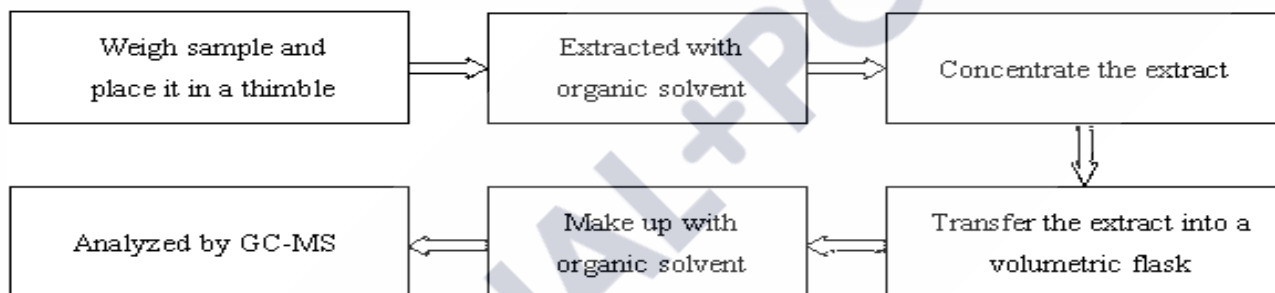
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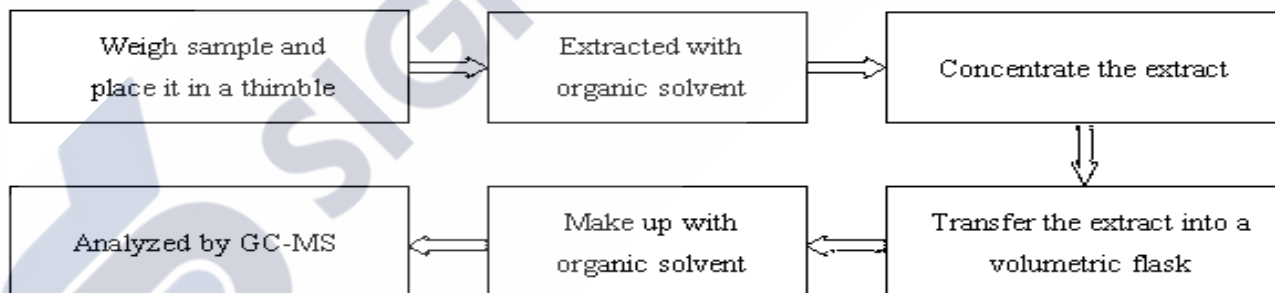
## (2) IEC 62321-7-2:2017



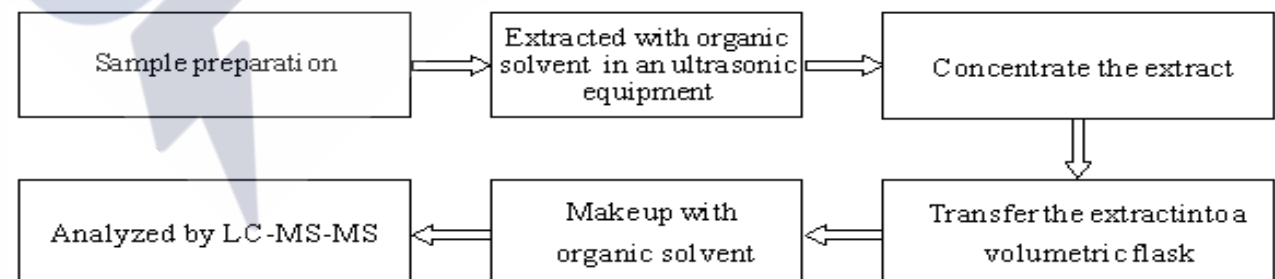
## 5. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



## 6. Phthalates (DBP, BBP, DEHP, DIBP)



## 7. Perfluorooctane Sulfonates (PFOS)

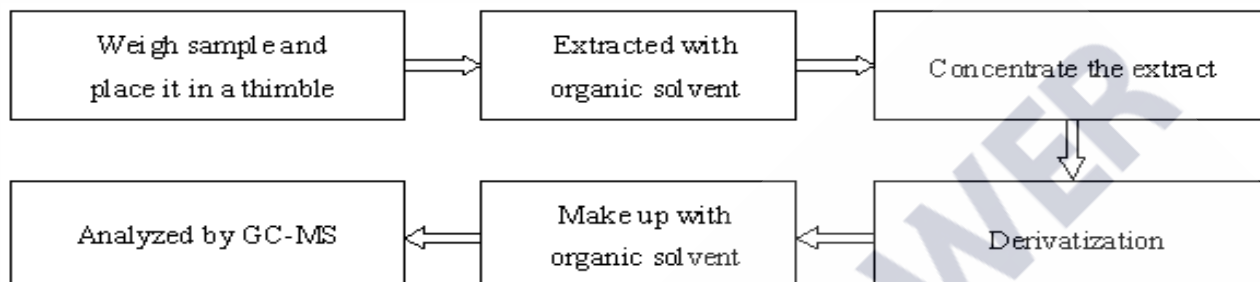


# Test Report

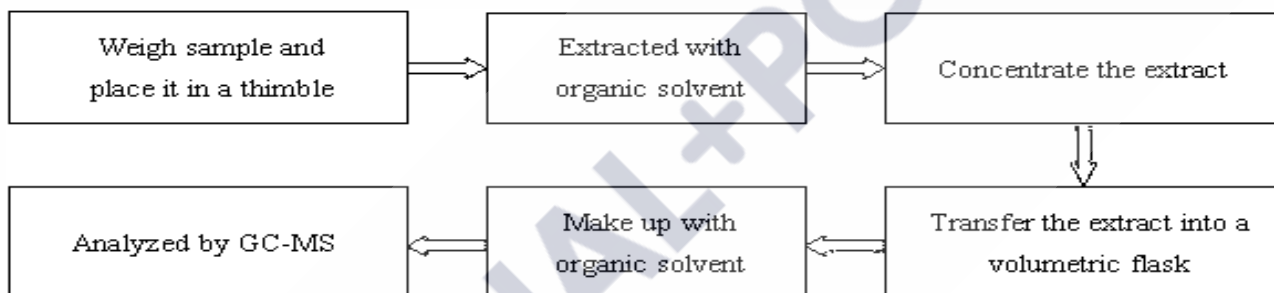
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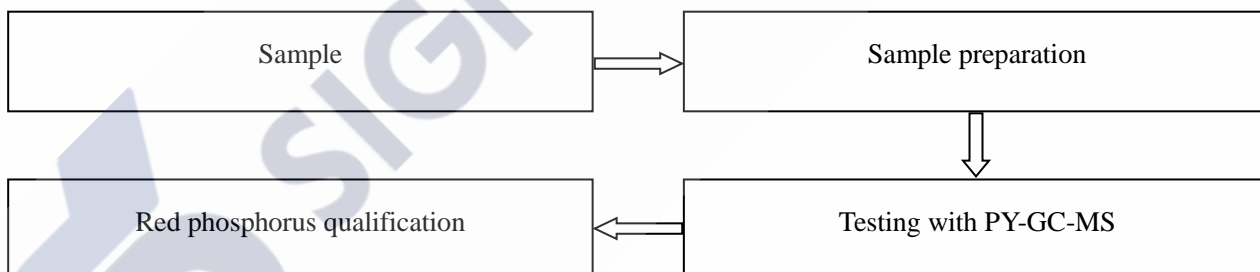
## 8. Tetrabromobisphenol A (TBBP-A)



## 9. Phthalates



## 10. Red phosphorus

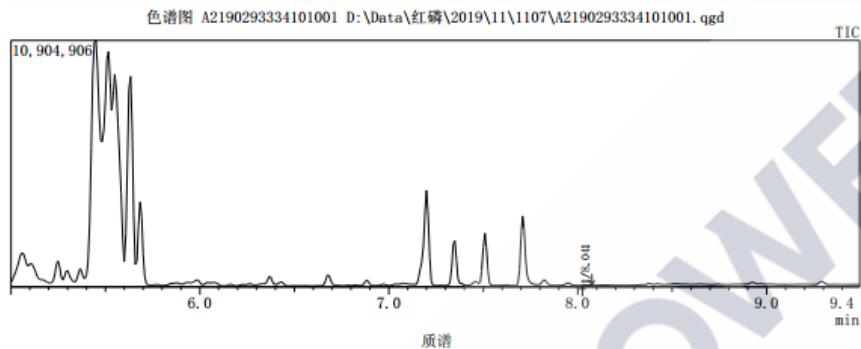


# Test Report

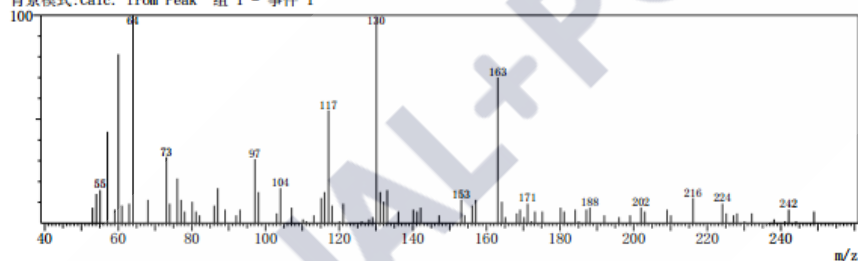
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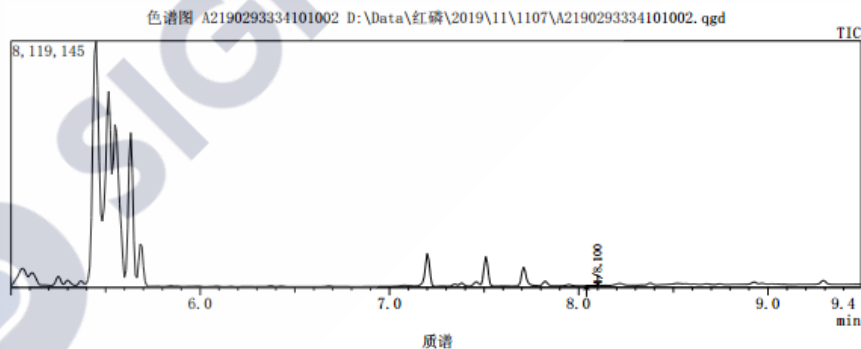
## Red phosphorus Test Spectra



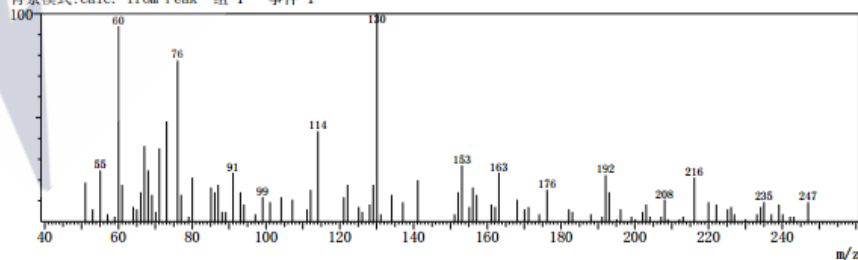
ID#: 1 保留时间: 8.108 (扫描数: 374)  
质量峰: 88  
原始模式: Averaged 8.108-8.117 (374-375)  
背景模式: Calc. from Peak 组 1 - 事件 1



001



ID#: 1 保留时间: 8.100 (扫描数: 373)  
质量峰: 95  
原始模式: Averaged 8.092-8.108 (372-374)  
背景模式: Calc. from Peak 组 1 - 事件 1

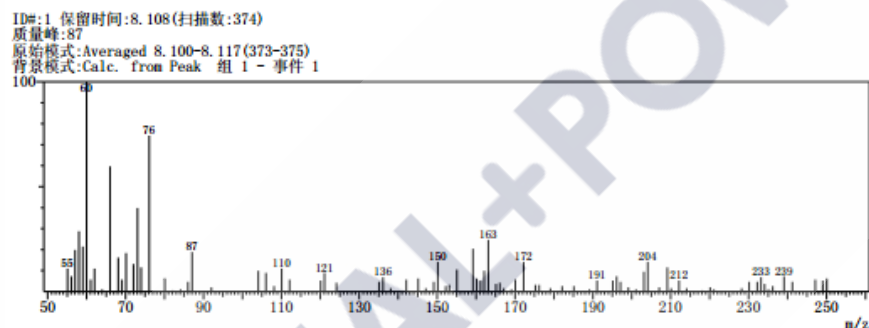
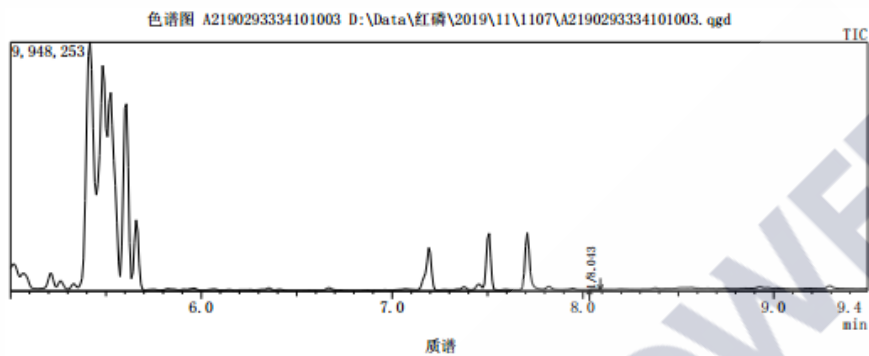


002

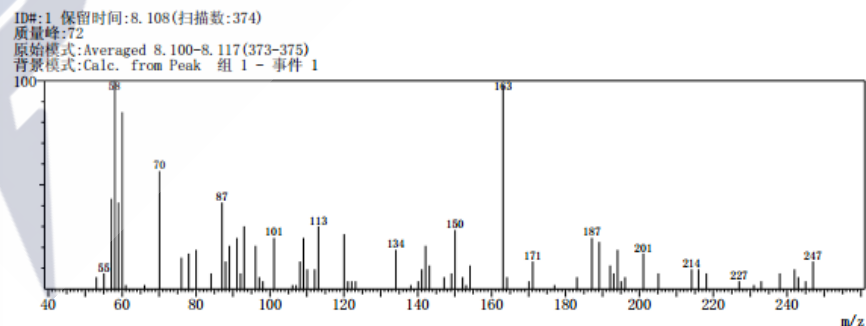
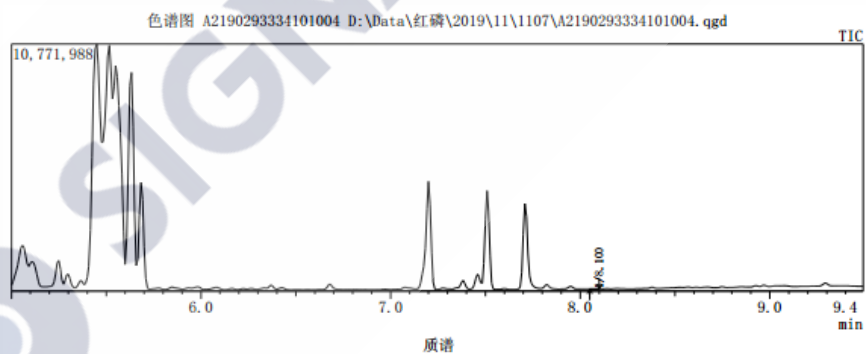
# Test Report

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003

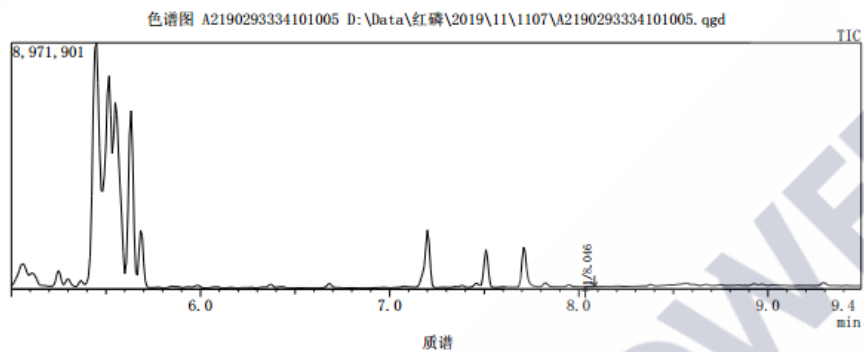


004

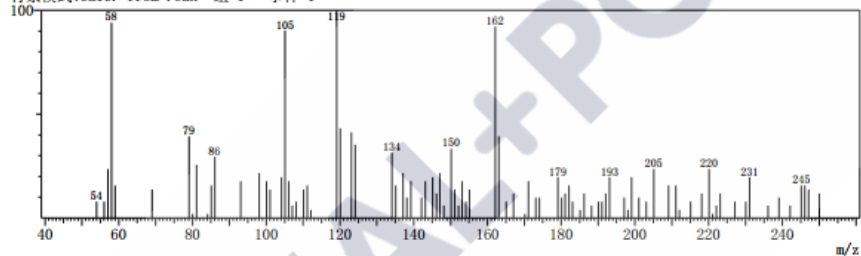
# Test Report

Report No. A219029333410101

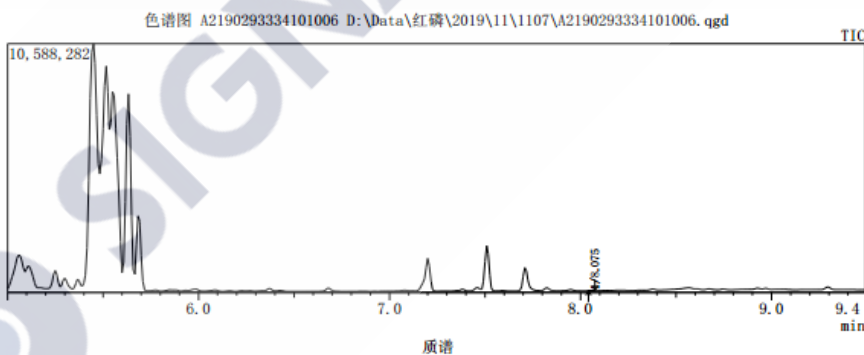
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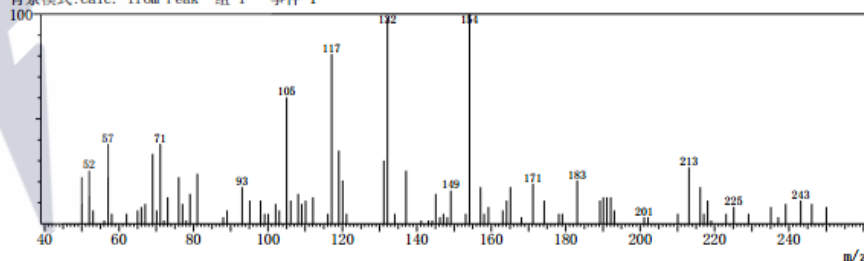
ID#: 1 保留时间: 8.125 (扫描数: 376)  
质量峰: 90  
原始模式: Averaged 8.117-8.133 (375-377)  
背景模式: Calc. from Peak 组 1 - 事件 1



005



ID#: 1 保留时间: 8.125 (扫描数: 376)  
质量峰: 88  
原始模式: Averaged 8.117-8.133 (375-377)  
背景模式: Calc. from Peak 组 1 - 事件 1

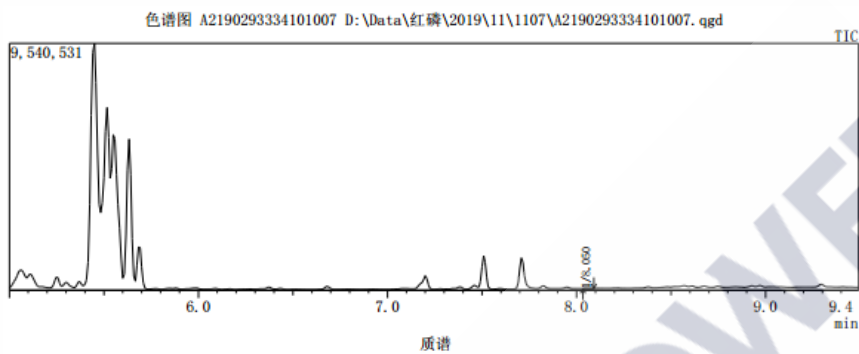


006

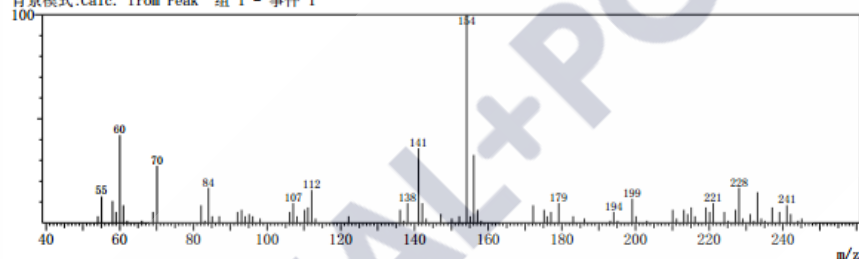
# Test Report

Report No. A219029333410101

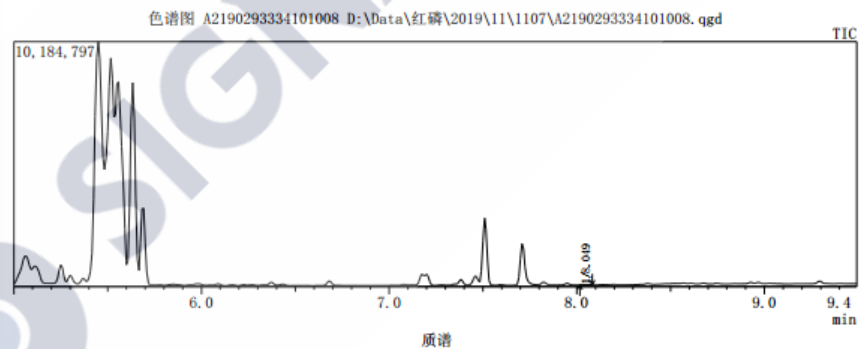
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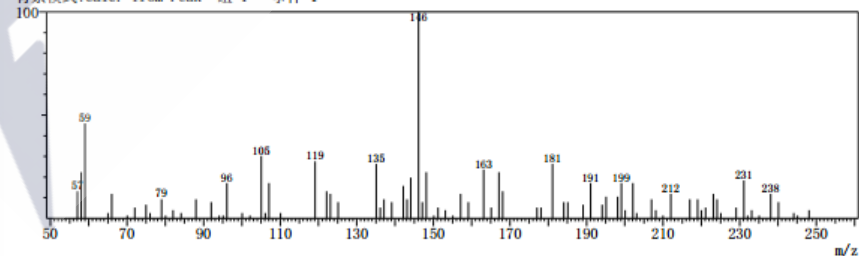
ID#: 1 保留时间: 8.117 (扫描数: 375)  
质量峰: 81  
原始模式: Averaged 8.117-8.125 (375-376)  
背景模式: Calc. from Peak 组 1 - 事件 1



007



ID#: 1 保留时间: 8.117 (扫描数: 375)  
质量峰: 83  
原始模式: Averaged 8.108-8.125 (374-376)  
背景模式: Calc. from Peak 组 1 - 事件 1

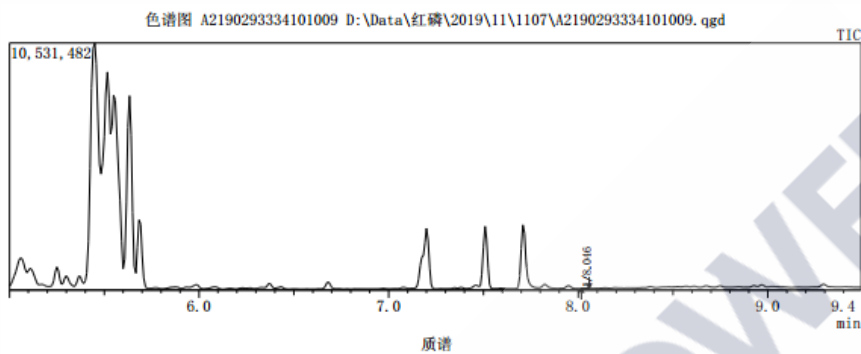


008

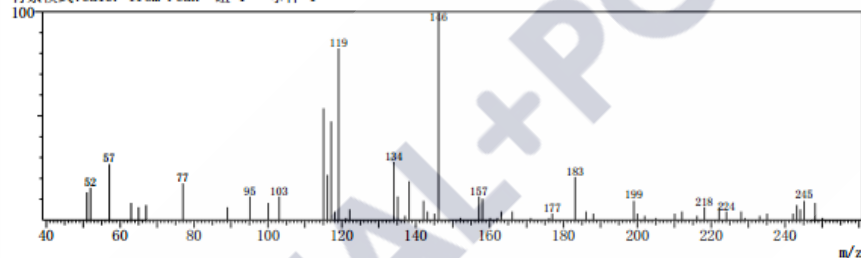
# Test Report

Report No. A219029333410101

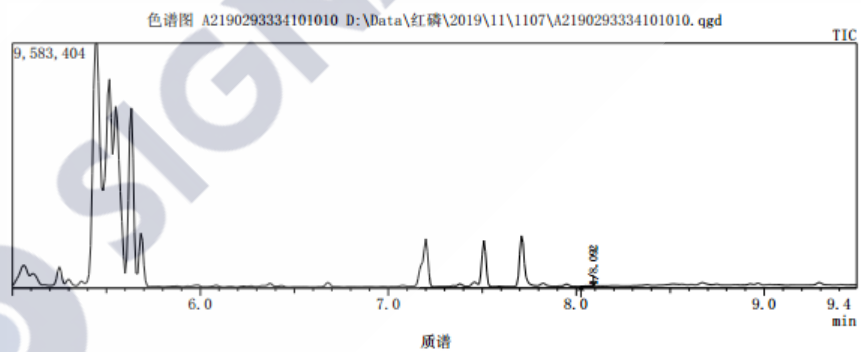
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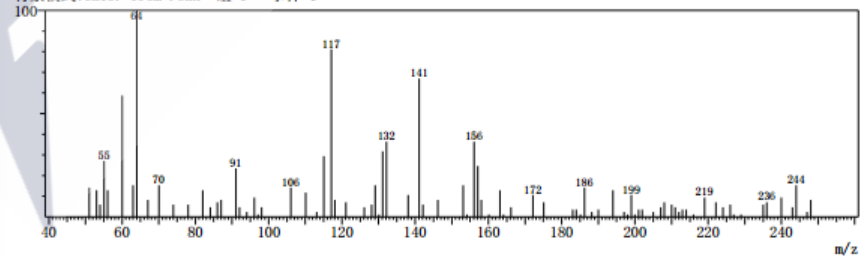
ID#:1 保留时间:8.017(扫描数:363)  
质量峰:59  
原始模式:Averaged 8.017-8.025(363-364)  
背景模式:Calc. from Peak 组 1 - 事件 1



009



ID#:1 保留时间:8.108(扫描数:374)  
质量峰:85  
原始模式:Averaged 8.108-8.117(374-375)  
背景模式:Calc. from Peak 组 1 - 事件 1



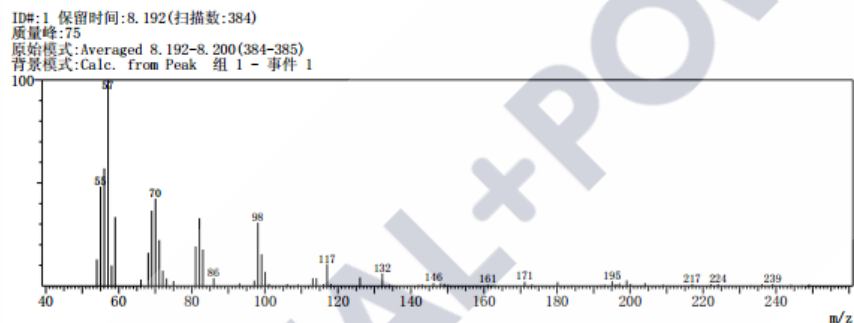
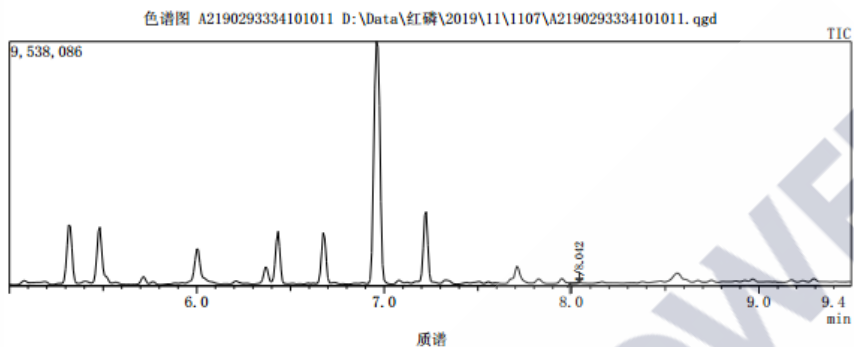
010



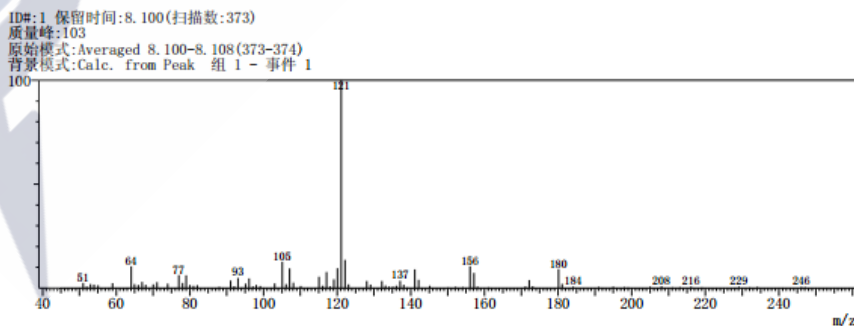
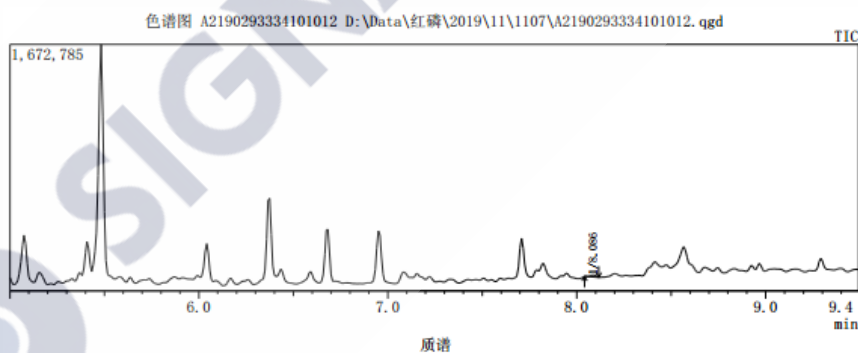
# Test Report

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011



012

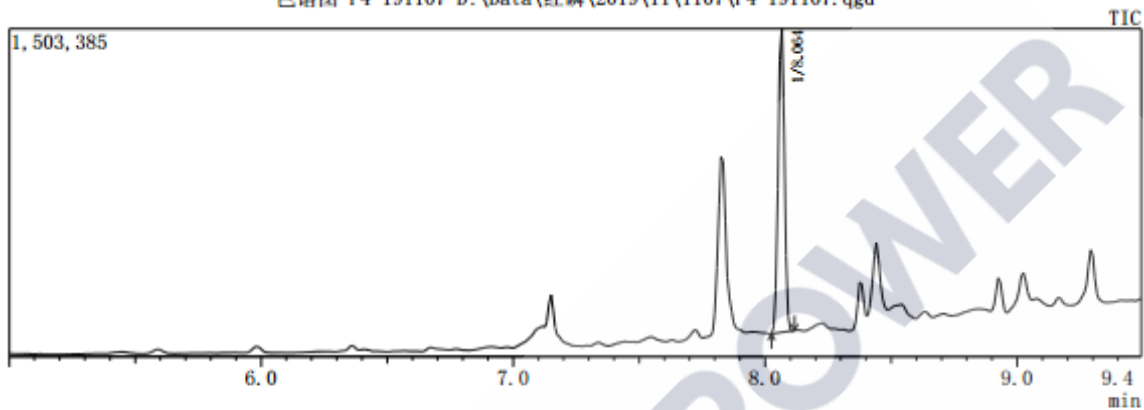
# Test Report

Report No. A219029333410101

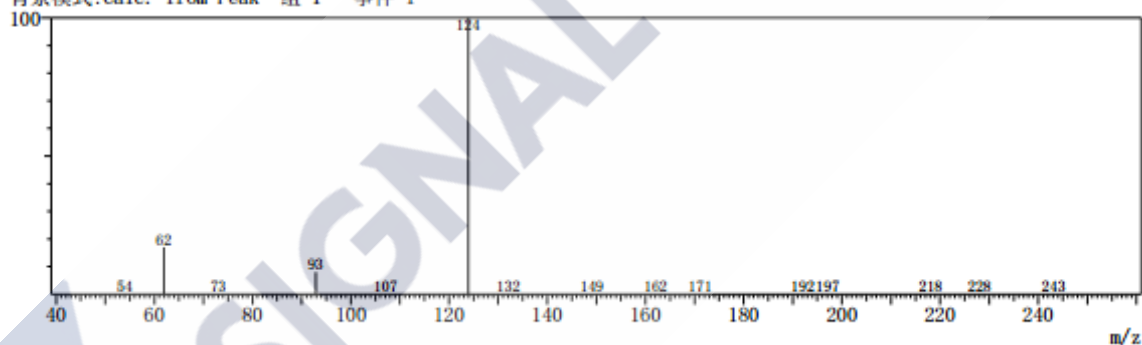
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## Standard Material Test Spectra

色谱图 P4-191107 D:\Data\红磷\2019\11\1107\P4-191107.qgd



ID#: 1 保留时间: 8.067 (扫描数: 369)  
质量峰: 75  
原始模式: Averaged 8.058-8.075 (368-370)  
背景模式: Calc. from Peak 组 1 - 事件 1



# Test Report

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## Client Reference Information

YP-01	YP-12L-15	YP-17	YP-28	YP-34	YP-65	YP-113	YC-01	YC-13D
YP-02	YP-12L-16	YP-17L	YP-29	YP-34D	YP-66	YP-316	YC-03	YC-13E
YP-02L	YP-12L-17	YP-17H	YP-30	YP-35	YP-67	YP-332	YC-04	YC-13G
YP-03	YP-12L-18	YP-17HL	YP-31	YP-35L	YP-68L	YP-516	YC-05	YC-13H
YP-03A	YP-12N	YP-17C	YP-31A	YP-36	YP-69L	YP-532	YC-05-1	YC-13K
YP-03B	YP-12P	YP-18	YP-31L	YP-37	YP-71	YP-416	YC-05A	YC-13L
YP-03L	YP-12D	YP-18A	YP-31W	YP-37A	YP-72L	YP-432	YC-05B	YC-13LG
YP-03H	YP-13	YP-18B	YP-32	YP-38	YP-73L	YS-32Q	YC-05C	YC-13S
YP-04	YP-13B	YP-18L	YP-32L	YP-39	YP-74L	YS-32W	YC-05E	YC-13W
YP-05	YP-13BL	YP-18N	YP-32A	YP-39A	YP-75L	YS-33Q	YC-05F	YC-13F
YP-06	YP-13C	YP-18T	YP-32B	YP-40	YP-76	YS-33W	YC-05L	YC-13P
YP-07	YP-13D	YP-18G	YP-32BL	YP-41	YP-77	YS-12W	YC-05U	YC-13PL
YP-08	YP-13H	YP-19	YP-32BL-1	YP-41A	YP-78	YS-12Q	YC-06	YC-14
YP-09	YP-13HB	YP-19L	YP-32BL-2	YP-42	YP-79	YS-18W	YC-06R	YC-14G
YP-10	YP-13HP	YP-19H	YP-32BL-3	YP-43	YP-80	YS-18Q	YC-07	YC-14L
YP-11	YP-13L	YP-19HL	YP-32BL-4	YP-45	YP-81	YS-12W-1	YC-07A	YC-14GL
YP-11A	YP-13M	YP-19C	YP-32D	YP-45A	YP-82	YS-32W-1	YC-07W	YC-14LA
YP-11B	YP-13N	YP-20	YP-32F	YP-46	YP-83	YS-33W-1	YC-08	YC-14S
YP-11C	YP-13O	YP-21A	YP-32H	YP-46A	YP-84	--	YC-09	YC-15
YP-11K	YP-13P	YP-21C	YP-32G	YP-47	YP-88L	--	YC-10	YC-15A
YP-11L	YP-13Q	YP-21K	YP-32Y	YP-47A	YP-90L	--	YC-11	YC-15E
YP-11L-9	YP-13S	YP-21S	YP-32C	YP-48	YP-91L	--	YC-11GL	YC-16
YP-11W	YP-13G	YP-21T	YP-32E	YP-49	YP-92L	--	YC-12	YC-17
YP-11P	YP-13E	YP-21H	YP-32P	YP-50	YP-93L	--	YC-12A	YC-17A
YP-11T	YP-13T	YP-22	YP-32P-1	YP-51	YP-93L-1	--	YC-12C	YC-18
YP-11R	YP-13K	YP-22K	YP-32P-2	YP-52	YP-93L-2	--	YC-12D	YC-18L
YP-11G	YP-13Y	YP-23	YP-33	YP-53	YP-93L-3	--	YC-12G	YC-18A
YP-11F	YP-13F	YP-23K	YP-33A	YP-54	YP-94L	--	YC-12K	YC-18K
YP-12	YP-13R	YP-24	YP-33AL	YP-55	YP-95L	--	YC-12P	YC-18E
YP-12A	YP-13W	YP-24K	YP-33AL-1	YP-56	YP-96L	--	YC-12PL	YC-18P
YP-12C	YP-14	YP-24L	YP-33AL-2	YP-57	YP-97L	--	YC-12-01	YC-18PL
YP-12E	YP-15	YP-24L-1	YP-33AL-3	YP-58	YP-98L	--	YC-12GL	YC-19
YP-12G	YP-15G	YP-24F	YP-33AL-4	YP-58N	YP-99L	--	YC-12GLR	YC-20
YP-12L	YP-15F	YP-25	YP-33B	YP-59	YP-103L	--	YC-12GL-3	YC-20D1

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YP-12L-9	YP-15T	YP-26	YP-33C	YP-60L	YP-107	--	YC-12HL	YC-20L
YP-12L-10	YP-16	YP-26A	YP-33E	YP-61	YP-108	--	YC-13	YC-20LR
YP-12L-11	YP-16L	YP-26B	YP-33L	YP-61A	YP-109	--	YC-13A	YC-21
YP-12L-12	YP-16H	YP-26C	YP-33P	YP-62	YP-110	--	YC-13B	YC-21A
YP-12L-13	YP-16HL	YP-26H	YP-33P-1	YP-63	YP-111	--	YC-13BL	YC-21L
YP-12L-14	YP-16C	YP-27	YP-33P-2	YP-64	YP-112	--	YC-13C	YC-21F
--	--	--	--	--	--	--	--	--
YC-22	YD-07	YL-0213	YL-2112	YL-3213W	YL-3561	YL-6112L	YL-212B	HBL2811
YC-23	YD-09	YL-0222	YL-2112L	YL-3214	YL-3613	YL-6113L	--	HBL2821
YC-24	YD-10	YL-0312	YL-2113	YL-3215	YL-3613A	YL-6114L	--	L630-P
YC-25	YD-11	YL-0314	YL-2113A	YL-321515	YL-3613L	YL-6115L	--	CS8365
YC-25L	YD-12	YL-0315	YL-2113L	YL-3215C	YL-3621	YL-6115C	--	L1530-P
YC-25E	YD-13	YL-03A18	YL-2121	YL-3215A	YL-3621L	YL-6118	--	HBL2621
YC-34D	YD-14	YL-0323	YL-2121L	YL-3215L	YL-3622	YL-6121L	--	CS8365C
YC-35	YD-15	YL-0412	YL-2121A	YL-3215L-1	YL-3622L	YL-6122L	--	HBL2721
YC-41A	YD-16	YL-0414	YL-2135	YL-3217	YL-3918	YL-6123	--	ME460P9W
YC-45	YD-17	YL-0415	YL-2161	YL-3218	YL-4500	YL-6135	--	C532P6S
YC-46	YD-17A	YL-0423	YL-21K12	YL-3220	YL-4512	YL-6145	--	L2130-P
YC-52	YD-17B	YL-0512	YL-21K13	YL-3223	YL-4514	YL-6146	--	WALTHER-230
YC-52A	YD-17L	YL-1113	YL-21K14	YL-3224	YL-4515	YL-8013	--	WALTHER-269
YC-53	YD-18	YL-1113A	YL-21K15	YL-3225	YL-4523	YL-8013L	--	WALTHER-261
YC-54	YD-19	YL-1113L	YL-21K21	YL-3212L-2	YL-4535	YL-8015	--	QX4
YC-55	YD-21	YL-1113B	YL-21K21L	YL-3212L-3	YL-4546	YL-8021	--	PS460P9W
YC-55A	YD-22	YL-1113C	YL-21K22	YL-3312	YL-4600	YL-8022	--	QX3
YC-56	YD-23	YL-1113BL	YL-21K23	YL-3312L	YL-4612	YL-8023	--	C563P6W
YC-58	YD-24	YL-1122	YL-21K35	YL-3312L-1	YL-4614	YL-8035	--	CS8365L
YC-59	YD-25	YL-1122L	YL-2212	YL-3312L-2	YL-4615	YL-8046	--	WALTHER-261306
YC-61	YD-26	YL-1161	YL-2212L	YL-3312L-3	YL-4615F	YL-8100	--	--
YC-61A	YD-27	YL-1200	YL-2212LA	YL-331212	YL-4623F	YL-8113	--	--
YC-62	YD-28	YL-1212	YL-2214	YL-3313	YL-4623	YL-8115	--	--
YC-64	YD-29	YL-121212	YL-2215	YL-3314	YL-4645	YL-8121	--	--
YC-72	YD-30	YL-1212L	YL-2215L	YL-3315	YL-4821	YL-8122	--	--
YC-73L	YD-31	YL-1212L-1	YL-2215A	YL-3317	YL-4823	YL-8123	--	--
YC-75L	YD-32	YL-1212L-3	YL-2215C	YL-331717	YL-5216	YL-9149	--	--
YC-77	YD-33	YL-1214	YL-2203	YL-3317L	YL-5253	YL-915	--	--

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YC-77A	YD-36	YL-1214L	YL-2245	YL-3317L-1	YL-5316	YL-915A	--	--
YC-79	YD-37	YL-1214G	YL-2246	YL-3318	YL-5352	YL-915B	--	--
YC-79A	YD-38	YL-1214W	YL-2300	YL-3318L	YL-5517	YL-915C	--	--
YC-91L	YD-39	YL-1217	YL-2300A	YL-331818	YL-5556	YL-916	--	--
YC-92L	SR 系列	YL-121717	YL-2300B	YL-3318L-1	YL-5617	YL-921	--	--
YC-93L	YCM-001	YL-1217L	YL-2300C	YL-3318L-2	YL-5655	YL-921A	--	--
YC-12L	YCM-002	YL-1217L-1	YL-2300L	YL-3318L-3	YL-6012	YL-921B	--	--
YC-12S	YCM-003	YL-1218	YL-2318	YL-3320	YL-6012L	YL-223	--	--
YC-12Y	YCM-004	YL-1223	YL-2361	YL-3325	YL-6013	YL-935	--	--
YC-12T	YCM-005	YL-1235	YL-2600	YL-3323	YL-6013L	YL-939	--	--
YC-12SL	--	YL-1245	YL-2615	YL-3324	YL-6014	YL-323	--	--
YC-12E	--	YL-1246	YL-2622	YL-3412	YL-6014L	YL-661	--	--
YC-12LR	--	YL-1249	YL-2623	YL-3413	YL-6015	YL-515	--	--
YC-15B	--	YL-1255	YL-2661	YL-3413A	YL-6015L	YL-312	--	--
YC-23A-1	--	YL-1256	YL-27B17	YL-3415	YL-6021	YL-315	--	--
YC-24A-1	--	YL-1258	YL-3112	YL-3512	YL-6021L	YL-344	--	--
--	--	YL-1261	YL-3113L	YL-3512L	YL-6022	YL-212	--	--
--	--	YL-1623	YL-3114	YL-3514	YL-6022L	YL-150	--	--
--	--	YL-1653	YL-3212	YL-3514L	YL-6023	YL-150A	--	--
--	--	YL-1756	YL-3212L	YL-3515	YL-6035	YL-521	--	--
--	--	YL-1800	YL-321212	YL-3522	YL-6100	YL-521W	--	--
--	--	YL-1861	YL-3213	YL-3523	YL-6114	YL-3200	--	--
--	--	YL-1923	YL-3213A	YL-3546	YL-6115	YL-3400	--	--

# Test Report

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## Photo(s) of the sample(s)

001



002



003



004



005



006





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007



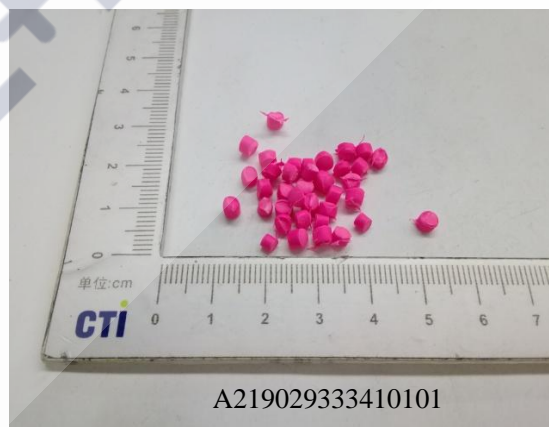
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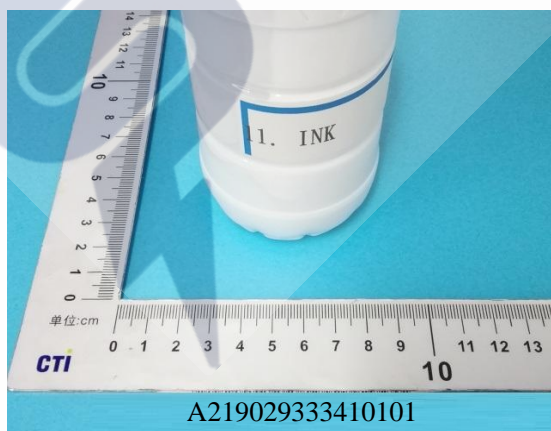
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010



011



012



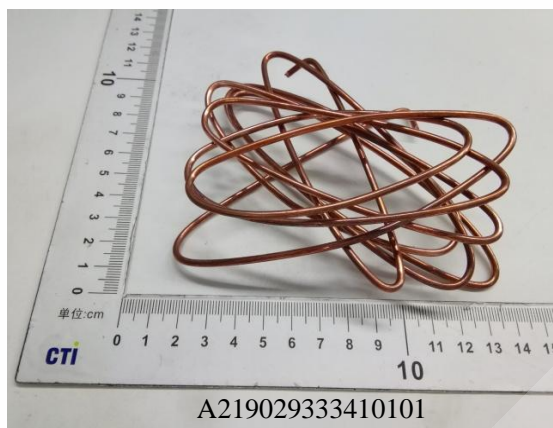


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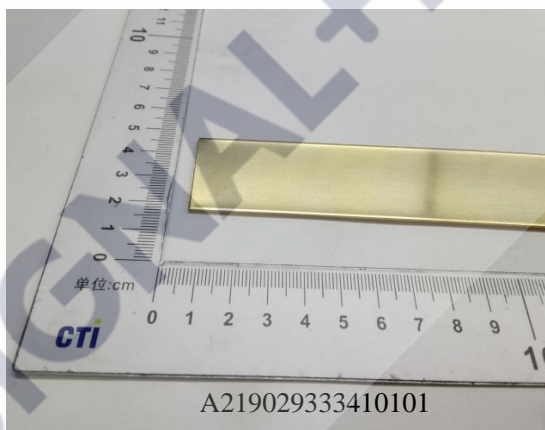
013



014



015



\*\*\* End of Report \*\*\*

## Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.



# Test Report

Report No. A219029333410102

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**Applicant** YUNG LI CO.,LTD

**Address** DA PU INDUSTRIAL ZONE,GANG ZI,CHANG PING TOWN, DONG GUAN CITY,GUANG DONG 523571 CHINA

**Sample Received Date** Nov. 5, 2019

**Testing Period** Nov. 5, 2019 to Nov. 8, 2019

**Test Requested** As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Perfluorooctane Sulfonates (PFOS), Tetrabromobisphenol A (TBBP-A), Phthalates, Polycyclic Aromatic Hydrocarbons (PAHs), Red phosphorus in the submitted sample(s).

**Test Method/Test Result(s)** Please refer to the following page(s).

\*\*\*\*\*

## Conclusion

Tested Sample	According to standard/directive	Result
Polycyclic Aromatic Hydrocarbons(PAHs)	AfPS GS 2014:01 PAK, Category 2	PASS

\*\*\*\*\*

Tested by

*Ada Zhang*

Reviewed by

*Tori Xia*

Approved by

*Hill Zheng*

Date

Nov. 8, 2019

Hill Zheng  
Technical Manager

No. B418203840



Centre Testing International Group Co., Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

# Test Report

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

Sample No.	Sample Name(s)	Client Reference Information	Reference Report No. -Sample No.
001	PVC BLACK	Please refer to the page 31	A219029333410101-001
002	PVC WHITE		A219029333410101-002
003	PVC BROWN		A219029333410101-003
004	PVC BLUE		A219029333410101-004
005	PVC YELLOW		A219029333410101-005
006	PVC GREEN		A219029333410101-006
007	PVC RED		A219029333410101-007
008	PVC ORANGE		A219029333410101-008
009	PVC PURPLE		A219029333410101-009
010	PVC PINK		A219029333410101-010
011	INK		A219029333410101-011
012	CABLE COPPER		A219029333410101-013

Remark:

The samples with the reference information in the table above are non-tested in this report. According to the client's statement, the material of the samples in the column "Reference Report No. -Sample No. " in the table above are the same as the "Sample No.", so the test results and the photos of the "Sample No." are presented in reference to that one.

# Test Report

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## Test Method

Tested Item(s)	Test Method	Measured Equipment(s)
Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2014:01 PAK	GC-MS
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015	UV-Vis
	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Perfluorooctane Sulfonates (PFOS)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
Tetrabromobisphenol A (TBBP-A)	Refer to US EPA 3550C:2007 & US EPA 8270E:2017	GC-MS
Phthalates	Refer to EN 14372:2004(E)	GC-MS
Red phosphorus	Refer to GB/T 9722-2006	PY-GC-MS

# Test Report

Report No. A219029333410102

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## Test Result(s)

Tested Item(s)	Result			MDL
	001	002	003	
Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.	8 mg/kg
	--	--	--	0.10 µg/cm <sup>2</sup> (LOQ)

Tested Item(s)	Result			MDL
	004	005	006	
Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.	8 mg/kg
	--	--	--	0.10 µg/cm <sup>2</sup> (LOQ)

Tested Item(s)	Result			MDL
	007	008	009	
Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.	8 mg/kg
	--	--	--	0.10 µg/cm <sup>2</sup> (LOQ)

Tested Item(s)	Result			MDL
	010	011	012	
Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	--	8 mg/kg
	--	--	N.D.▼	0.10 µg/cm <sup>2</sup> (LOQ)

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Tested Item(s)	Result			MDL
	001	002	003	
Polybrominated Biphenyls(PBBs)				
Monobromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result			MDL
	004	005	006	
Polybrominated Biphenyls(PBBs)				
Monobromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg



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Tested Item(s)	Result			MDL
	007	008	009	
Polybrominated Biphenyls(PBBs)				
Monobromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result		MDL
	010	011	
Polybrominated Biphenyls(PBBs)			
Monobromobiphenyl	N.D.	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	N.D.	5 mg/kg



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Tested Item(s)	Result			MDL
	001	002	003	
Polybrominated Diphenyl Ethers (PBDEs)				
Monobromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result			MDL
	004	005	006	
Polybrominated Diphenyl Ethers (PBDEs)				
Monobromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg

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Tested Item(s)	Result			MDL
	007	008	009	
Polybrominated Diphenyl Ethers (PBDEs)				
Monobromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result		MDL
	010	011	
Polybrominated Diphenyl Ethers (PBDEs)			
Monobromodiphenyl ether	N.D.	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	5 mg/kg

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Tested Item(s)	Result			MDL
	001	002	003	
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg

Tested Item(s)	Result			MDL
	004	005	006	
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg

Tested Item(s)	Result			MDL
	007	008	009	
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg

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Tested Item(s)	Result		MDL
	010	011	
Phthalates (DBP, BBP, DEHP, DIBP)			
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	50 mg/kg

Tested Item(s)	Result			MDL
	001	002	003	
Perfluorooctane Sulfonates (PFOS)	N.D.	N.D.	N.D.	0.01 mg/kg

Tested Item(s)	Result			MDL
	004	005	006	
Perfluorooctane Sulfonates (PFOS)	N.D.	N.D.	N.D.	0.01 mg/kg

Tested Item(s)	Result			MDL
	007	008	009	
Perfluorooctane Sulfonates (PFOS)	N.D.	N.D.	N.D.	0.01 mg/kg

Tested Item(s)	Result		MDL
	010	011	
Perfluorooctane Sulfonates (PFOS)	N.D.	N.D.	0.01 mg/kg

Tested Item(s)	Result			MDL
	001	002	003	
Tetrabromobisphenol A (TBBP-A)	N.D.	N.D.	N.D.	5 mg/kg

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Tested Item(s)	Result			MDL
	004	005	006	
Tetrabromobisphenol A (TBBP-A)	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result			MDL
	007	008	009	
Tetrabromobisphenol A (TBBP-A)	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result		MDL
	010	011	
Tetrabromobisphenol A (TBBP-A)	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result			MDL
	001	002	003	
Phthalates				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	30 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	30 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	30 mg/kg
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	N.D.	N.D.	30 mg/kg
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	N.D.	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	N.D.	N.D.	50 mg/kg
Dimethyl phthalate (DMP) CAS#:131-11-3	N.D.	N.D.	N.D.	30 mg/kg
Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	N.D.	N.D.	30 mg/kg
Dipropyl phthalate (DPrP) CAS#:131-16-8	N.D.	N.D.	N.D.	30 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	30 mg/kg

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Tested Item(s)	Result			MDL
	001	002	003	
Phthalates				
Dipentyl phthalate (DPP) CAS#:131-18-0	N.D.	N.D.	N.D.	30 mg/kg
Diheptyl phthalate (DHP) CAS#:3648-21-3	N.D.	N.D.	N.D.	30 mg/kg
Dicyclohexyl phthalate (DCHP) CAS#:84-61-7	N.D.	N.D.	N.D.	30 mg/kg
Diisooctyl phthalate (DIOP) CAS#:27554-26-3	N.D.	N.D.	N.D.	50 mg/kg
Dinonyl phthalate (DNP) CAS#:84-76-4	N.D.	N.D.	N.D.	30 mg/kg
Diisononyl adipate (DINA) CAS#:33703-08-1	N.D.	N.D.	N.D.	50 mg/kg

Tested Item(s)	Result			MDL
	004	005	006	
Phthalates				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	30 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	30 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	30 mg/kg
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	N.D.	N.D.	30 mg/kg
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	N.D.	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	N.D.	N.D.	50 mg/kg
Dimethyl phthalate (DMP) CAS#:131-11-3	N.D.	N.D.	N.D.	30 mg/kg
Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	N.D.	N.D.	30 mg/kg
Dipropyl phthalate (DPrP) CAS#:131-16-8	N.D.	N.D.	N.D.	30 mg/kg

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Tested Item(s)	Result			MDL
	004	005	006	
Phthalates				
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	30 mg/kg
Dipentyl phthalate (DPP) CAS#:131-18-0	N.D.	N.D.	N.D.	30 mg/kg
Diheptyl phthalate (DHP) CAS#:3648-21-3	N.D.	N.D.	N.D.	30 mg/kg
Dicyclohexyl phthalate (DCHP) CAS#:84-61-7	N.D.	N.D.	N.D.	30 mg/kg
Diisooctyl phthalate (DIOP) CAS#:27554-26-3	N.D.	N.D.	N.D.	50 mg/kg
Dinonyl phthalate (DNP) CAS#:84-76-4	N.D.	N.D.	N.D.	30 mg/kg
Diisononyl adipate (DINA) CAS#:33703-08-1	N.D.	N.D.	N.D.	50 mg/kg

Tested Item(s)	Result			MDL
	007	008	009	
Phthalates				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	30 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	30 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	30 mg/kg
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	N.D.	N.D.	30 mg/kg
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	N.D.	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	N.D.	N.D.	50 mg/kg
Dimethyl phthalate (DMP) CAS#:131-11-3	N.D.	N.D.	N.D.	30 mg/kg
Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	N.D.	N.D.	30 mg/kg



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Tested Item(s)	Result			MDL
	007	008	009	
Phthalates				
Dipropyl phthalate (DPrP) CAS#:131-16-8	N.D.	N.D.	N.D.	30 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	30 mg/kg
Dipentyl phthalate (DPP) CAS#:131-18-0	N.D.	N.D.	N.D.	30 mg/kg
Diheptyl phthalate (DHP) CAS#:3648-21-3	N.D.	N.D.	N.D.	30 mg/kg
Dicyclohexyl phthalate (DCHP) CAS#:84-61-7	N.D.	N.D.	N.D.	30 mg/kg
Diisooctyl phthalate (DIOP) CAS#:27554-26-3	N.D.	N.D.	N.D.	50 mg/kg
Dinonyl phthalate (DNP) CAS#:84-76-4	N.D.	N.D.	N.D.	30 mg/kg
Diisononyl adipate (DINA) CAS#:33703-08-1	N.D.	N.D.	N.D.	50 mg/kg

Tested Item(s)	Result		MDL
	010	011	
Phthalates			
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	30 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	30 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	30 mg/kg
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	N.D.	30 mg/kg
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	N.D.	50 mg/kg
Dimethyl phthalate (DMP) CAS#:131-11-3	N.D.	N.D.	30 mg/kg

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Tested Item(s)	Result		MDL
	010	011	
Phthalates			
Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	N.D.	30 mg/kg
Dipropyl phthalate (DPrP) CAS#:131-16-8	N.D.	N.D.	30 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	30 mg/kg
Dipentyl phthalate (DPP) CAS#:131-18-0	N.D.	N.D.	30 mg/kg
Diheptyl phthalate (DHP) CAS#:3648-21-3	N.D.	N.D.	30 mg/kg
Dicyclohexyl phthalate (DCHP) CAS#:84-61-7	N.D.	N.D.	30 mg/kg
Diisooctyl phthalate (DIOP) CAS#:27554-26-3	N.D.	N.D.	50 mg/kg
Dinonyl phthalate (DNP) CAS#:84-76-4	N.D.	N.D.	30 mg/kg
Diisononyl adipate (DINA) CAS#:33703-08-1	N.D.	N.D.	50 mg/kg

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Tested Item(s)	Result				MDL
	001	002	003	004	
Polycyclic Aromatic Hydrocarbons (PAHs)					
Naphthalene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Acenaphthylene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Acenaphthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Fluorene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Phenanthrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(a)anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Chrysene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(b)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(a)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Indenol(1,2,3-cd)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Dibenzo(a,h)anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(g,h,i)perylene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(j)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(e)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Sum (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	N.D.	N.D.	N.D.	/
Sum 18 PAHs	N.D.	N.D.	N.D.	N.D.	/

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Tested Item(s)	Result				MDL
	005	006	007	008	
Polycyclic Aromatic Hydrocarbons (PAHs)					
Naphthalene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Acenaphthylene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Acenaphthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Fluorene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Phenanthrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(a)anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Chrysene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(b)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(a)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Indenol(1,2,3-cd)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Dibenzo(a,h)anthracene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(g,h,i)perylene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(j)fluoranthene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(e)pyrene	N.D.	N.D.	N.D.	N.D.	0.2 mg/kg
Sum (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	N.D.	N.D.	N.D.	/
Sum 18 PAHs	N.D.	N.D.	N.D.	N.D.	/

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Tested Item(s)	Result			MDL
	009	010	011	
Polycyclic Aromatic Hydrocarbons (PAHs)				
Naphthalene	N.D.	N.D.	N.D.	0.2 mg/kg
Acenaphthylene	N.D.	N.D.	N.D.	0.2 mg/kg
Acenaphthene	N.D.	N.D.	N.D.	0.2 mg/kg
Fluorene	N.D.	N.D.	N.D.	0.2 mg/kg
Phenanthrene	N.D.	N.D.	N.D.	0.2 mg/kg
Anthracene	N.D.	N.D.	N.D.	0.2 mg/kg
Fluoranthene	N.D.	N.D.	N.D.	0.2 mg/kg
Pyrene	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(a)anthracene	N.D.	N.D.	N.D.	0.2 mg/kg
Chrysene	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(b)fluoranthene	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(k)fluoranthene	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(a)pyrene	N.D.	N.D.	N.D.	0.2 mg/kg
Indenol(1,2,3-cd)pyrene	N.D.	N.D.	N.D.	0.2 mg/kg
Dibenzo(a,h)anthracene	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(g,h,i)perylene	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(j)fluoranthene	N.D.	N.D.	N.D.	0.2 mg/kg
Benzo(e)pyrene	N.D.	N.D.	N.D.	0.2 mg/kg
Sum (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	N.D.	N.D.	/
Sum 18 PAHs	N.D.	N.D.	N.D.	/

Tested Item(s)	Result				MDL
	001	002	003	004	
Red phosphorus	Negative*	Negative*	Negative*	Negative*	500 mg/kg

Tested Item(s)	Result				MDL
	005	006	007	008	
Red phosphorus	Negative*	Negative*	Negative*	Negative*	500 mg/kg

Tested Item(s)	Result			MDL
	009	010	011	
Red phosphorus	Negative*	Negative*	Negative*	500 mg/kg

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**Limits for PAHs content (mg/kg) for material of (grip) surfaces, which are to be categorized on account of the results of the risk analysis.**

Parameters	Category 1	Category 2		Category 3	
	Materials intended to be put in the mouth or materials of toys with foreseeable long-term skin contact(longer than 30 seconds)	Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact <sup>#</sup>		Materials not covered by category 1 or 2 with foreseeable skin contact up to 30seconds (short term skin contact)	
		Toys covered by Directive 2009/48/EC	Other products	Toys covered by Directive 2009/48/EC	Other products
Benzo[a]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[e]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[a]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[b]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[j]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[k]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo[a,h]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[g,h,i]perylene	<0.2	<0.2	<0.5	<0.5	<1
Indenol[1,2,3-cd]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene	<1 Sum	<5 Sum	<10 Sum	<20 Sum	<50 Sum
Naphthalene	<1	<2		<10	
Sum 18 PAHs	<1	<5	<10	<20	<50

<sup>#</sup> Formulation “of repeated short-term skin contact” REACH Annex XVII No. 50 supplement (REGULATION (EU) No.1272/2013)

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**Remark:** -MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10  $\mu\text{g}/\text{cm}^2$

-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10  $\mu\text{g}/\text{cm}^2$ . The coating is considered a non-Cr(VI) based coating.

-Negative = Not Contained

-The red phosphorus is qualified by PY-GC-MS method which detect pyrolysis products P4 of red phosphorus. But there is a false positive risk by performing this method, since P4 could also generate while the phosphate and organic phosphate coexist with some strong oxidizing or reductant agent in pyrolysis process.

-\*Result for reference only.

**Note:** The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

## Sample/Part Description

- 001 Black plastic grains
- 002 White plastic grains
- 003 Brown plastic grains
- 004 Blue plastic grains
- 005 Yellow plastic grains
- 006 Green plastic grains
- 007 Red plastic grains
- 008 Orange plastic grains
- 009 Purple plastic grains
- 010 Pink plastic grains
- 011 White ink
- 012 Cupreous metal



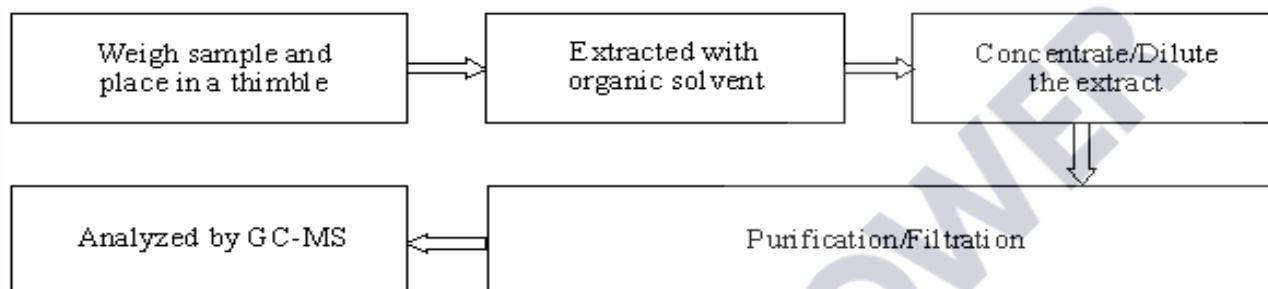
# Test Report

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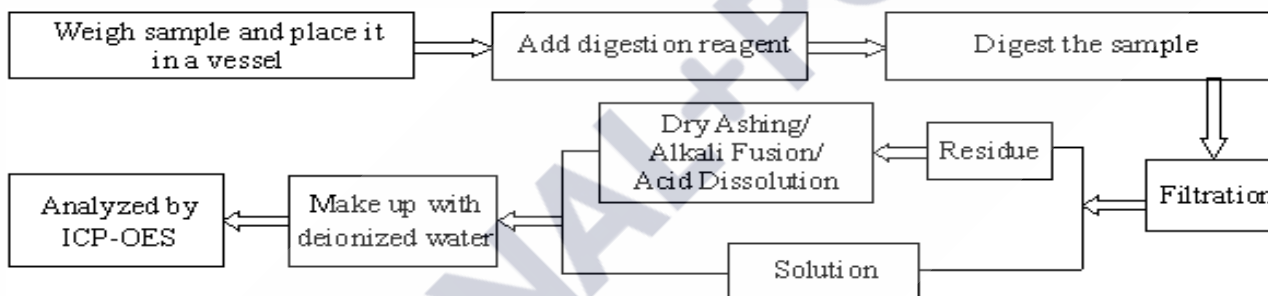
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## Test Process

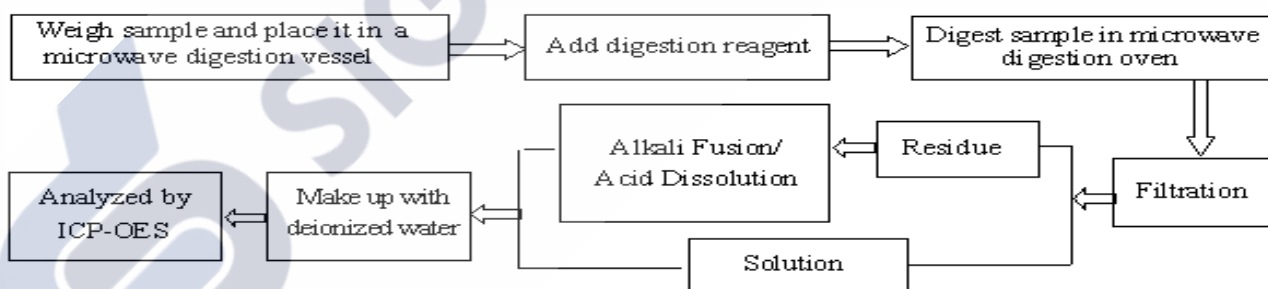
### 1. Polycyclic Aromatic Hydrocarbons (PAHs)



### 2. Lead(Pb), Cadmium(Cd), Chromium(Cr)

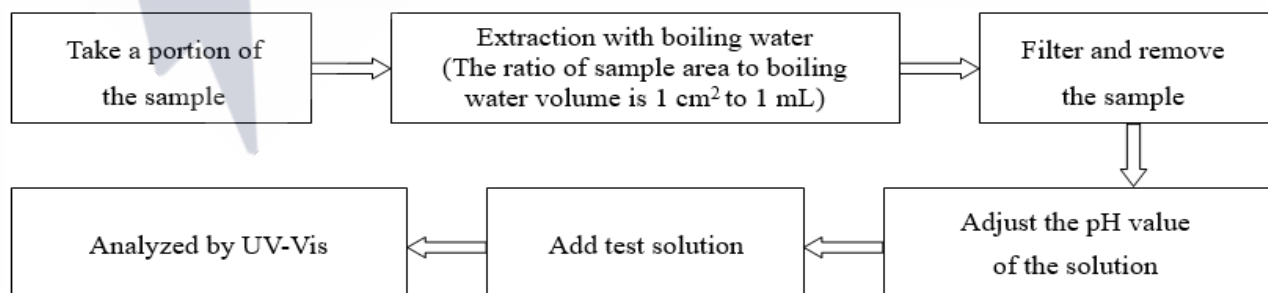


### 3. Mercury(Hg)



### 4. Hexavalent Chromium(Cr(VI))

#### (1) IEC 62321-7-1:2015

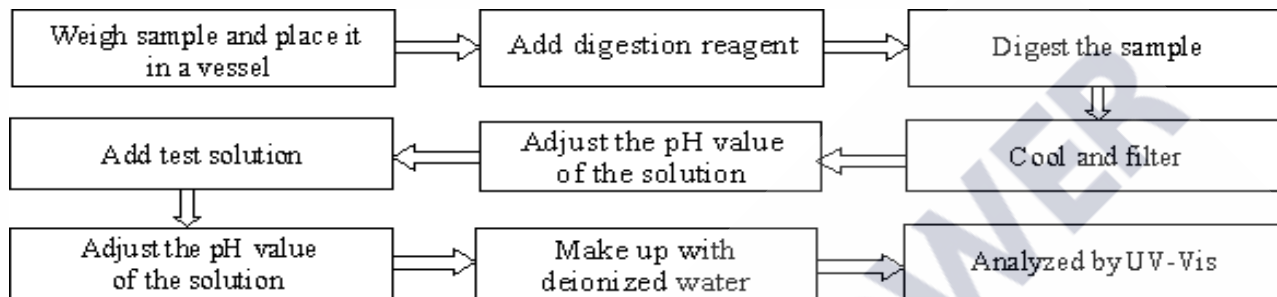


# Test Report

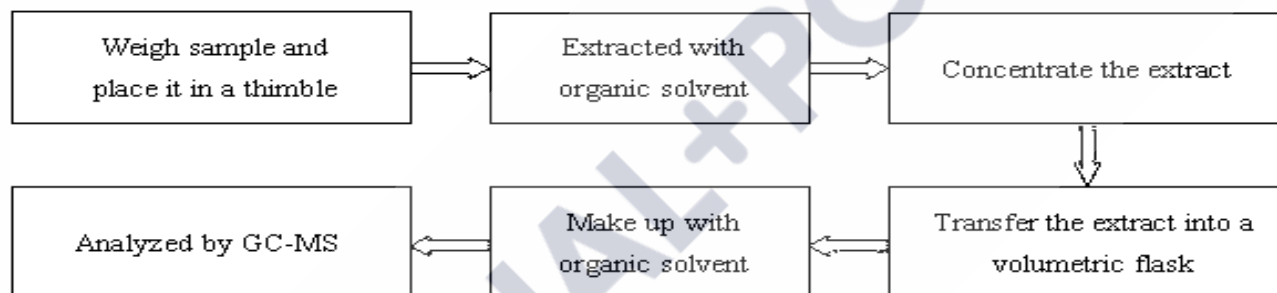
Report No. A219029333410102

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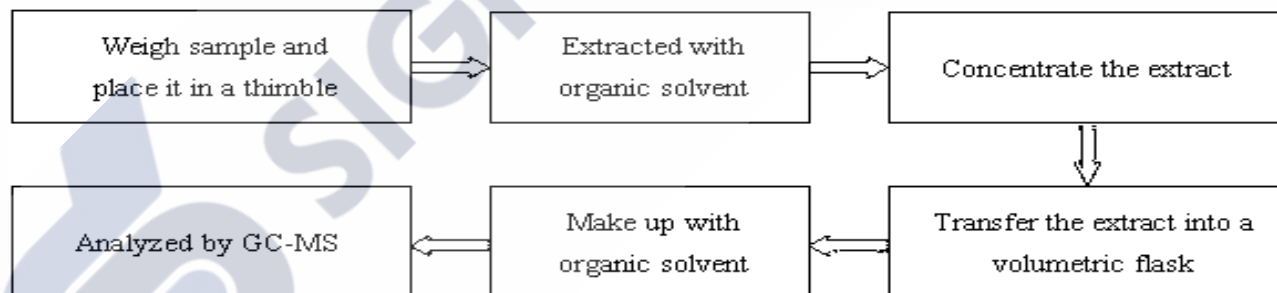
## (2) IEC 62321-7-2:2017



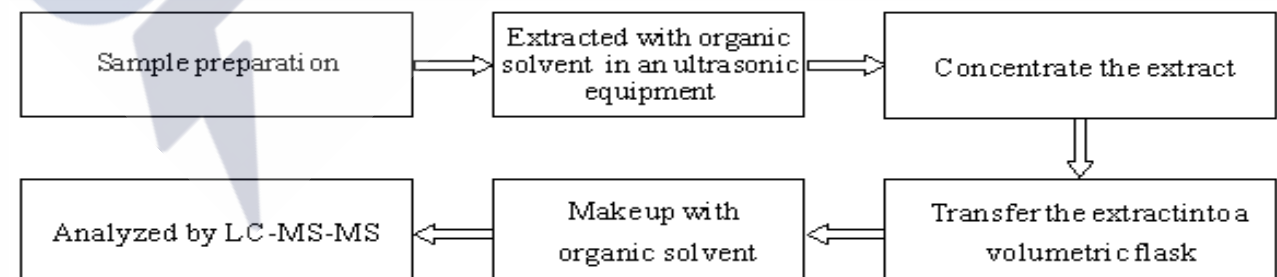
## 5. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



## 6. Phthalates (DBP, BBP, DEHP, DIBP)



## 7. Perfluorooctane Sulfonates (PFOS)

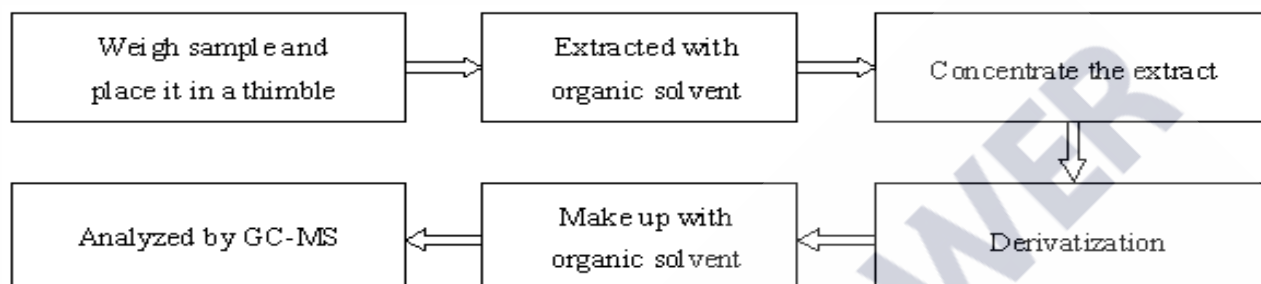


# Test Report

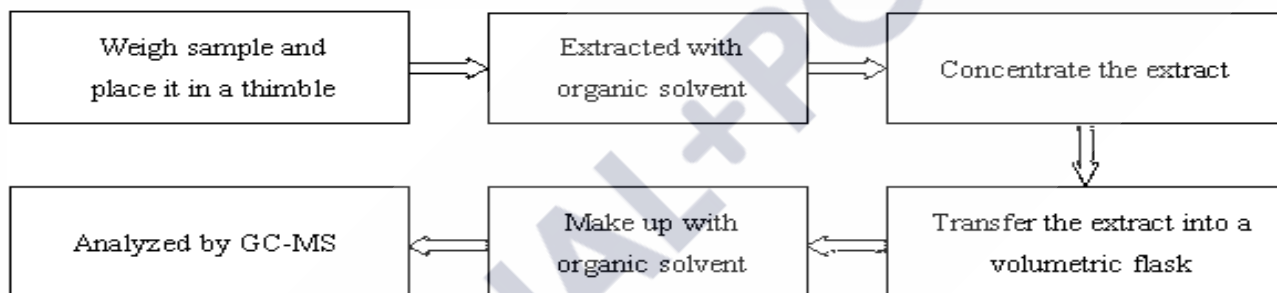
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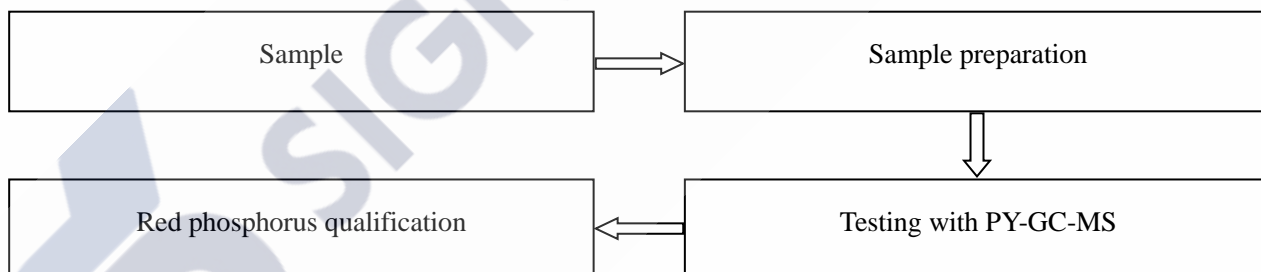
## 8. Tetrabromobisphenol A (TBBP-A)



## 9. Phthalates



## 10. Red phosphorus

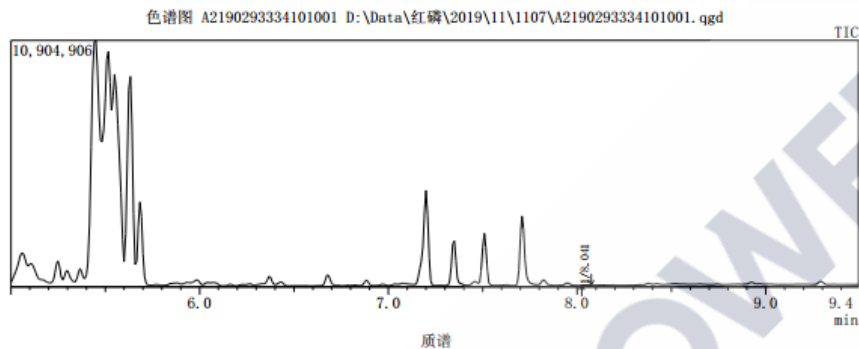


# Test Report

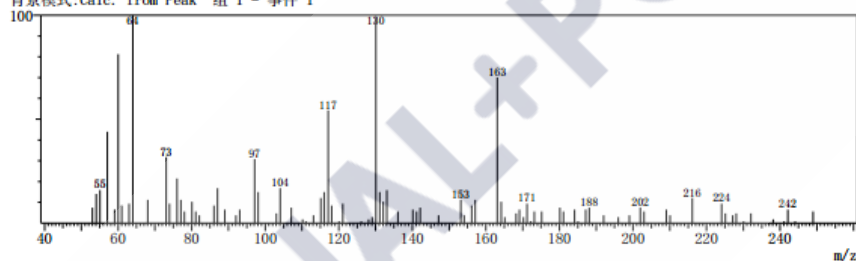
Report No. A219029333410102

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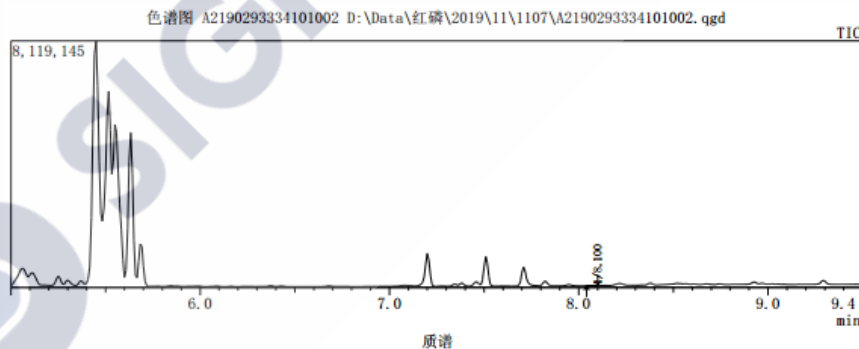
## Red phosphorus Test Spectra



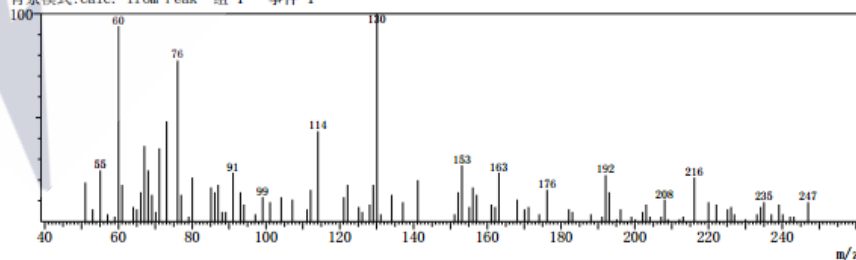
ID#:1 保留时间:8.108(扫描数:374)  
质量峰:88  
原始模式:Averaged 8.108-8.117(374-375)  
背景模式:Calc. from Peak 组 1 - 事件 1



001



ID#:1 保留时间:8.100(扫描数:373)  
质量峰:95  
原始模式:Averaged 8.092-8.108(372-374)  
背景模式:Calc. from Peak 组 1 - 事件 1

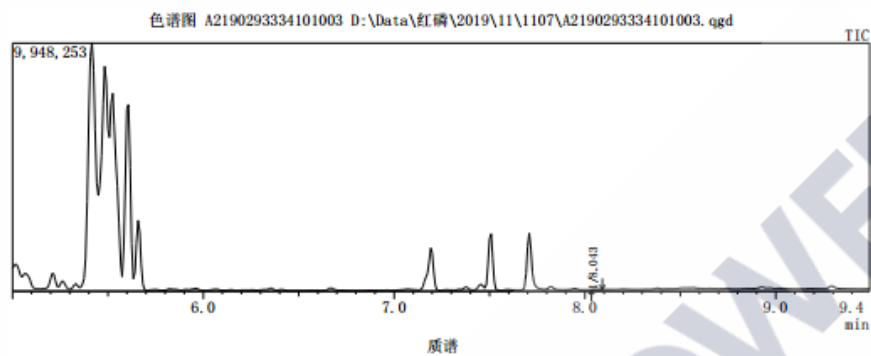


002

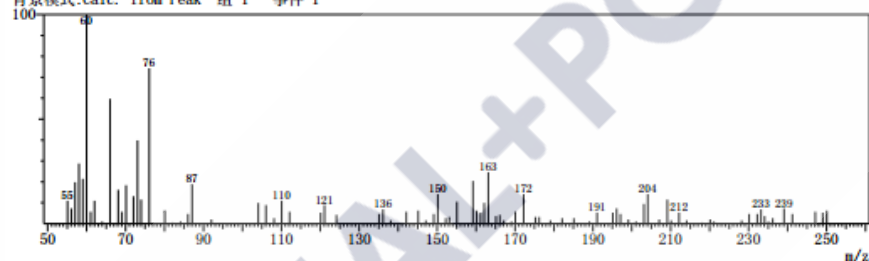
# Test Report

Report No. A219029333410102

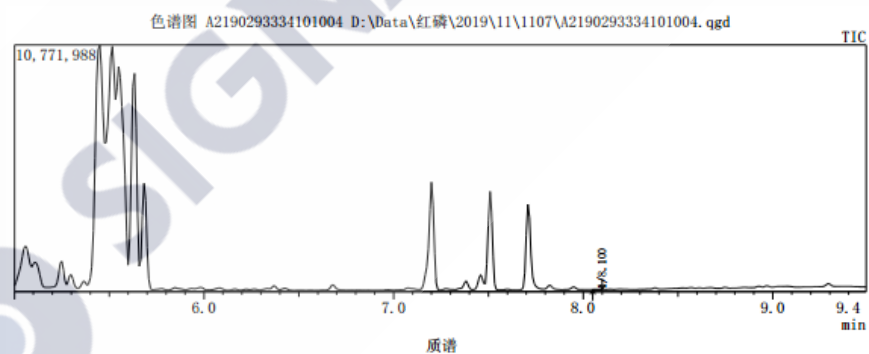
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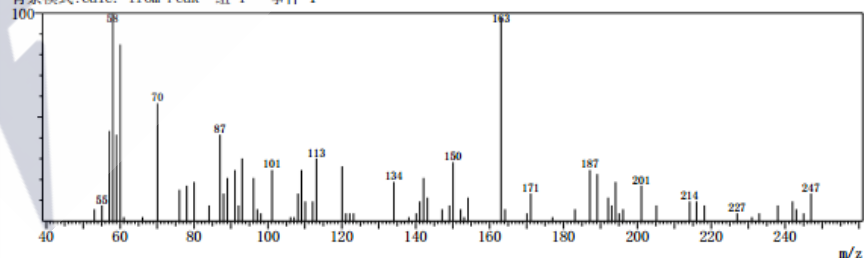
ID#:1 保留时间:8.108(扫描数:374)  
质量峰:87  
原始模式:Averaged 8.100-8.117(373-375)  
背景模式:Calc. from Peak 组1-事件1



003



ID#:1 保留时间:8.108(扫描数:374)  
质量峰:72  
原始模式:Averaged 8.100-8.117(373-375)  
背景模式:Calc. from Peak 组1-事件1

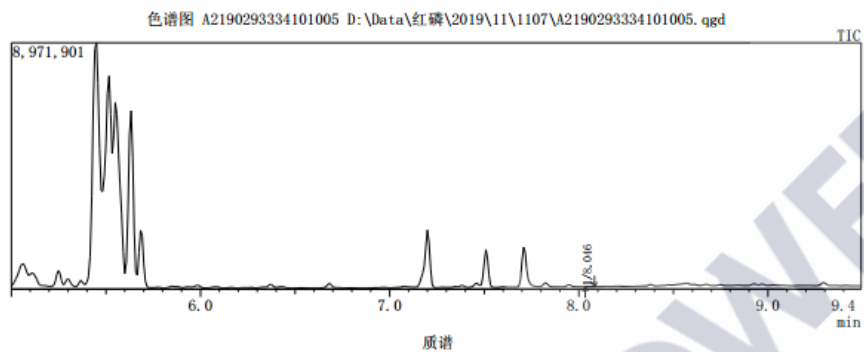


004

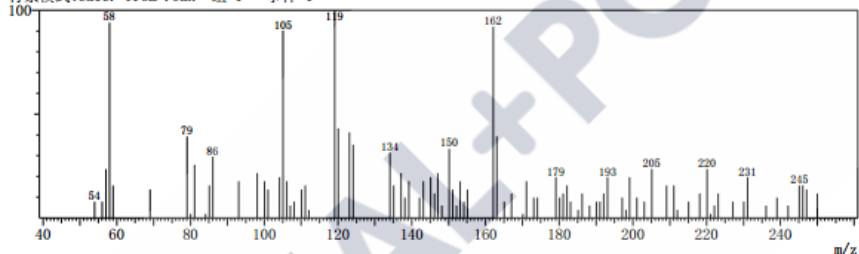
# Test Report

Report No. A219029333410102

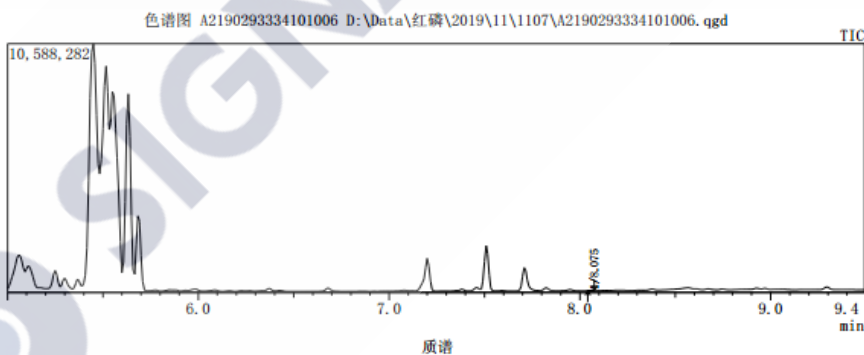
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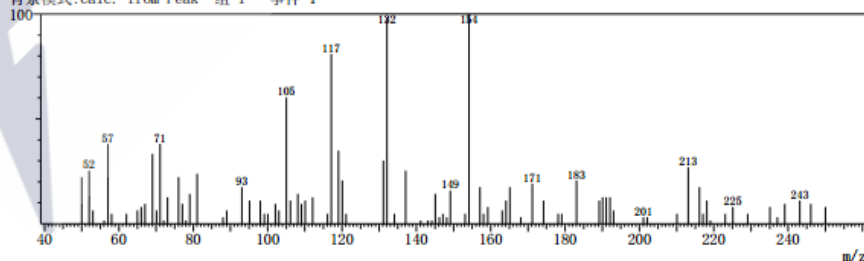
ID#: 1 保留时间: 8.125 (扫描数: 376)  
质量峰: 90  
原始模式: Averaged 8.117-8.133 (375-377)  
背景模式: Calc. from Peak 组 1 - 事件 1



005



ID#: 1 保留时间: 8.125 (扫描数: 376)  
质量峰: 88  
原始模式: Averaged 8.117-8.133 (375-377)  
背景模式: Calc. from Peak 组 1 - 事件 1

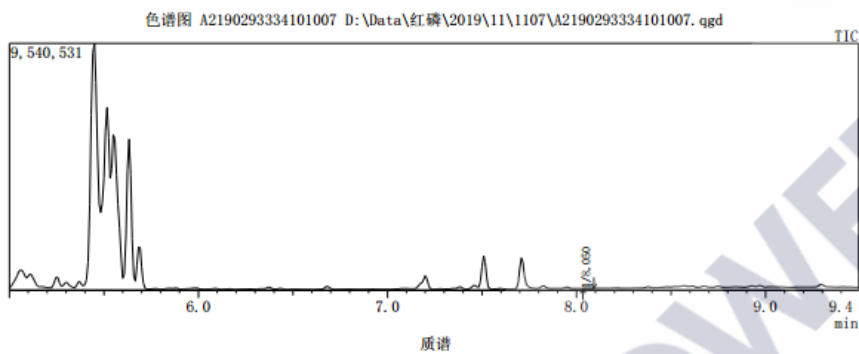


006

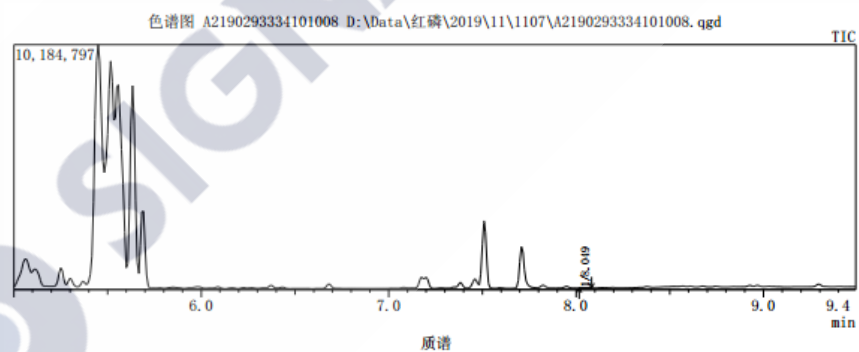
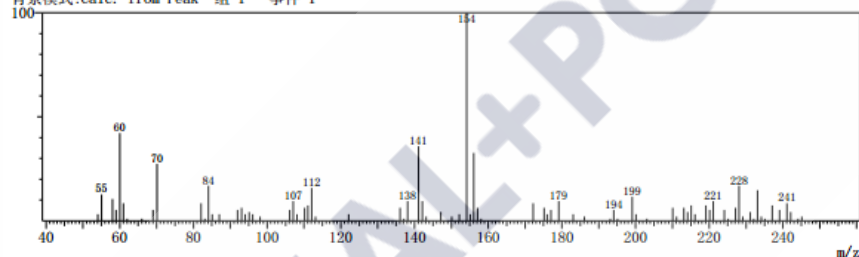
# Test Report

Report No. A2190293334101002

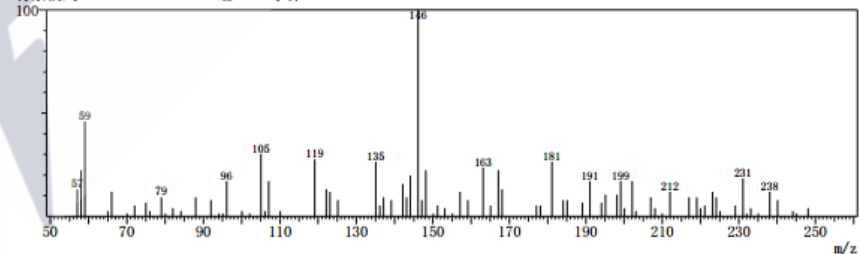
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ID#: 1 保留时间: 8.117 (扫描数: 375)  
质量峰: 81  
原始模式: Averaged 8.117-8.125 (375-376)  
背景模式: Calc. from Peak 组 1 - 事件 1



ID#: 1 保留时间: 8.117 (扫描数: 375)  
质量峰: 83  
原始模式: Averaged 8.108-8.125 (374-376)  
背景模式: Calc. from Peak 组 1 - 事件 1

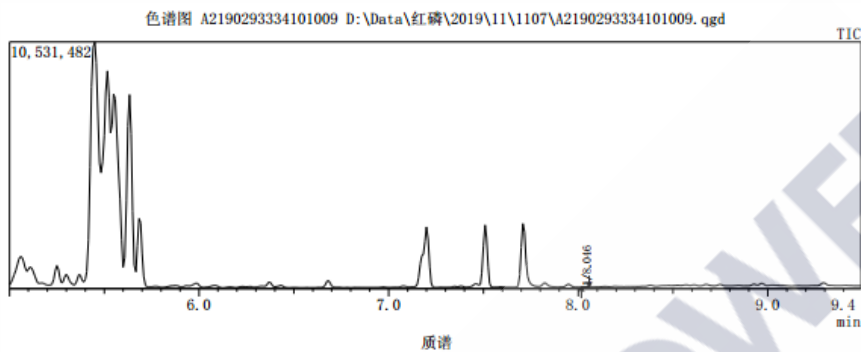




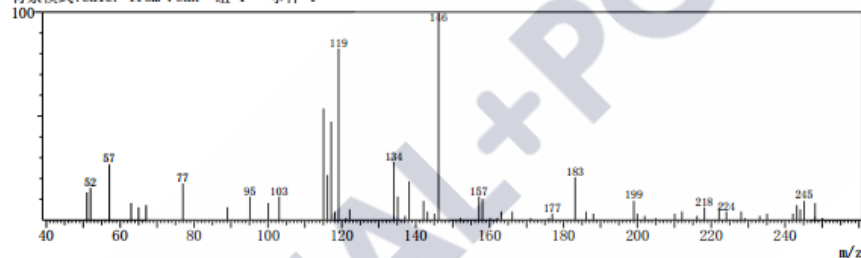
# Test Report

Report No. A219029333410102

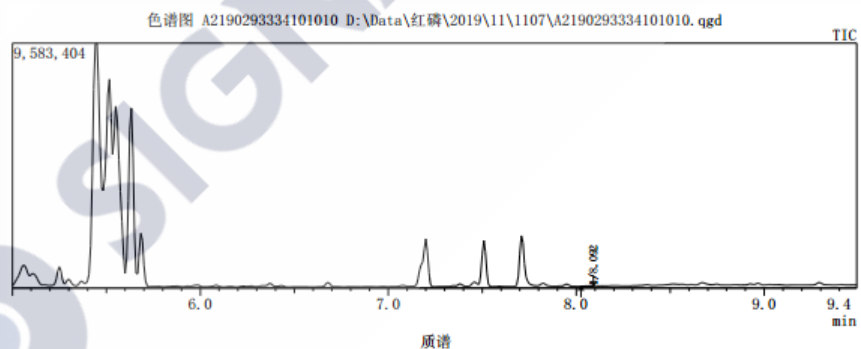
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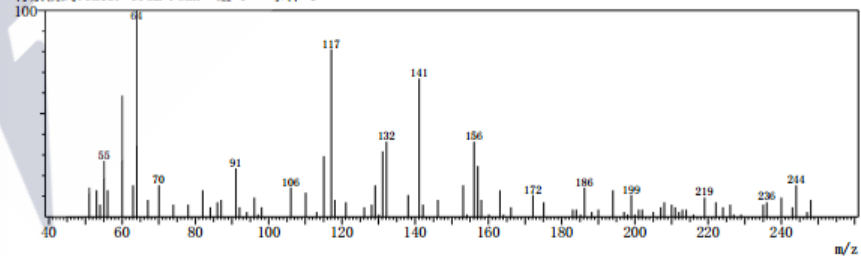
ID#: 1 保留时间: 8.017 (扫描数: 363)  
质量峰: 59  
原始模式: Averaged 8.017-8.025 (363-364)  
背景模式: Calc. from Peak 组 1 - 事件 1



009



ID#: 1 保留时间: 8.108 (扫描数: 374)  
质量峰: 85  
原始模式: Averaged 8.108-8.117 (374-375)  
背景模式: Calc. from Peak 组 1 - 事件 1

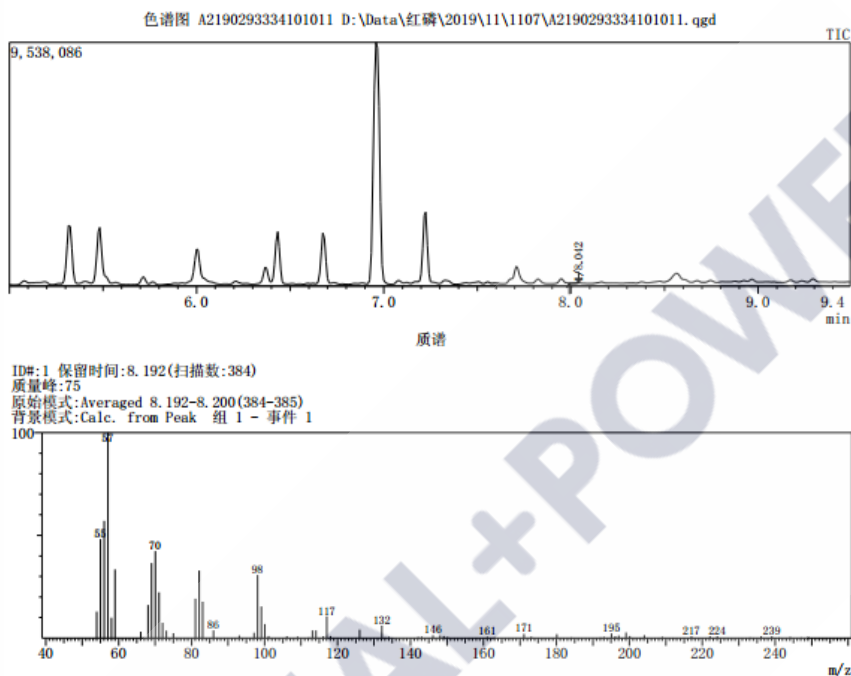


010

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011

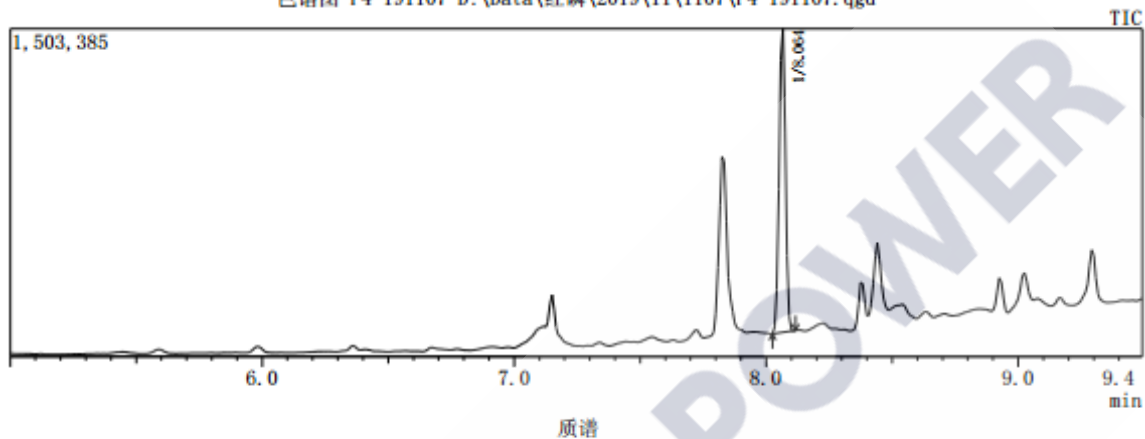
# Test Report

Report No. A219029333410102

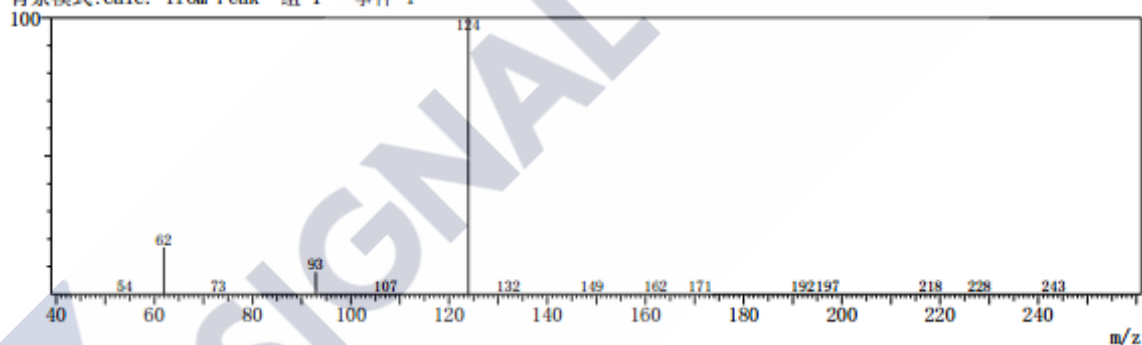
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## Standard Material Test Spectra

色谱图 P4-191107 D:\Data\红磷\2019\11\1107\P4-191107. qgd



ID#: 1 保留时间: 8.067 (扫描数: 369)  
质量峰: 75  
原始模式: Averaged 8.058-8.075 (368-370)  
背景模式: Calc. from Peak 组 1 - 事件 1



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## Client Reference Information

SV SVO SVT,SVTO	SPT-1,NISPT-1	VFF,HVFF	H03VV-F
SJT,SJTW	SPT-2,NISPT-2	VCTFK,HVCTFK	H03VVH2-F
SJTO,SJTOW,SJTOOW	SPT-3,NISPT-3	VCTF,HVCTF	H03V2V2-F
S,SJ,SJO,SJOO	SPT-1W,SPT-2W	VCT,HVCT	H03V2V2H2-F
SJOW,SJOOW	SRDT,DRT	VSF,HVSF	H05VV-F
ST,STW,STO,STOW,STOOW	1015,1007,1061,	HHVCTFK	H05VVH2-F
SO,SOO,SOW,SOOW	1728,1185,2468,	HHVCTF	H05V2V2-F
EVT EVJT EVE EVJE	2464, 2586,1283		H05V2V2H2-F
TYPE-W			

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## Photo(s) of the sample(s)

001



002



003



004



005



006





# Test Report

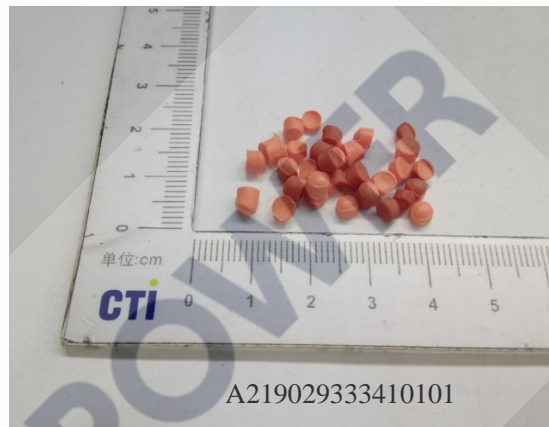
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007



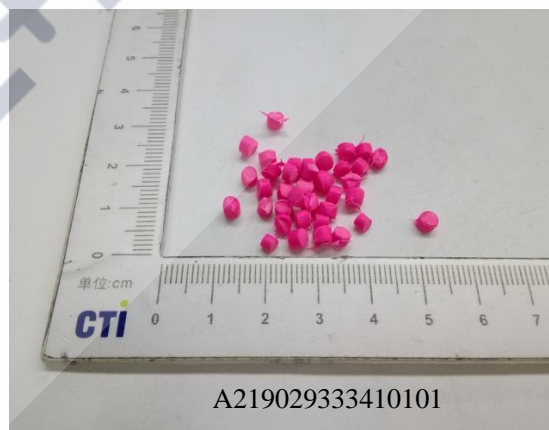
008



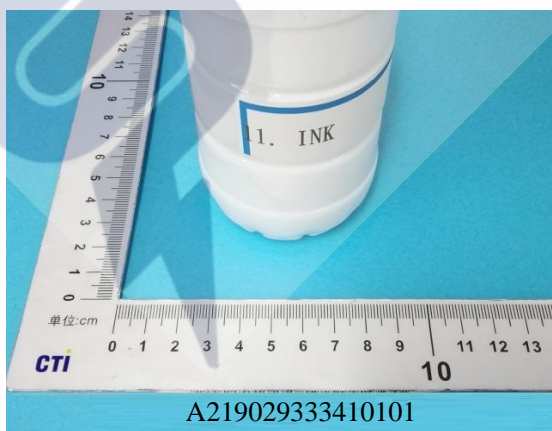
009



010



011



012



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\*\*\* End of Report \*\*\*

Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.