

APPLICANT : Seoul Chemical Research Laboratory CO., LTD. ADDRESS : #1MA 605-5, Sihwa Comp. 63 Gongdan 2-daero Siheung-si, Gyeonggi-do, Korea PAGE: 1 of 7

REPORT NO. RT21R-S4672-001-E

SAMPLE DESCRIPTION	: The following submitted sample(s) said to be:-
NAME/TYPE OF PRODUCT	: SPI-707 BLACK KC WITH SH-2 KC
SAMPLE ID NO.	: RT21R-S4672-001
ITEM NO.	: SPI-707 BROWN WITH SH-2, SPI-707 MATT BLACK WITH SH-2,
	SPI-707 SEMI MATT BLACK KC WITH SH-2 KC,
	SPI-707 MATT BLACK KC WITH SH-2 KC,
	SPI-707 Y BROWN KC WITH SH-2 KC
MANUFACTURER/VENDOR	: Seoul Chemical Research Laboratory CO., LTD.
SAMPLE RECEIVED	: Jul. 20, 2021
TESTING DATE	: Jul. 20, 2021 ~ Jul. 28, 2021
TEST METHOD(S)	: Please see the following page(s).
TEST RESULT(S)	: Please see the following page(s).

\* Note 1 : The test results presented in this report refer only to the object tested.

\* Note 2 : This report shall not be reproduced except in full without the written approval of the testing laboratory.

\* Note 3 : The item no. is assigned by client and indicated according to their requirement and guarantee letter.

Approved by,

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Jade Jang / Lab. Technical Manager

Authorized by,

Bo Park / Lab. General Manager

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DATE: Jul. 28, 2021

Authenticity check

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REPORT NO. RT21R-S4672-001-E

PAGE: 2 of 7 DATE: Jul. 06, 2021

SAMPLE ID NO. : RT21R-S4672-001 SAMPLE DESCRIPTION : SPI-707 BLACK KC WITH SH-2 KC

TEST ITEM	UNIT	TEST METHOD	MDL	RESULT		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 Edition 1.0 : 2013,	0.5	N.D.		
Lead (Pb)	mg/kg	by acid digestion and determined by ICP-OES	5	N.D.		
Mercury (Hg)	mg/kg	With reference to IEC 62321-4 : 2013/AMD1 : 2017, by acid digestion and determined by ICP-OES	2	N.D.		
Hexavalent Chromium (Cr <sup>6+</sup> )	mg/kg	With reference to IEC 62321-7-2 Edition 1.0 : 2017, by alkaline/toluene digestion and determined by UV-VIS Spectrophotometer	8	N.D.		
Polybrominated Biphenyl (PBBs)						
Monobromobiphenyl	mg/kg		5	N.D.		
Dibromobiphenyl	mg/kg		5	N.D.		
Tribromobiphenyl	mg/kg		5	N.D.		
Tetrabromobiphenyl	mg/kg	With reference to	5	N.D.		
Pentabromobiphenyl	mg/kg	IEC 62321-6 Edition 1.0 : 2015,	5	N.D.		
Hexabromobiphenyl	mg/kg	by solvent extraction and	5	N.D.		
Heptabromobiphenyl	mg/kg	determined by GC/MS	5	N.D.		
Octabromobiphenyl	mg/kg		5	N.D.		
Nonabromobiphenyl	mg/kg		5	N.D.		
Decabromobiphenyl	mg/kg		5	N.D.		
Polybrominated Diphenyl Ether (I	PBDEs)					
Monobromodiphenyl ether	mg/kg		5	N.D.		
Dibromodiphenyl ether	mg/kg		5	N.D.		
Tribromodiphenyl ether	mg/kg	]	5	N.D.		
Tetrabromodiphenyl ether	mg/kg	With reference to	5	N.D.		
Pentabromodiphenyl ether	mg/kg	IEC 62321-6 Edition 1.0 : 2015,	5	N.D.		
Hexabromodiphenyl ether	mg/kg	by solvent extraction and	5	N.D.		
Heptabromodiphenyl ether	mg/kg	determined by GC/MS	5	N.D.		
Octabromodiphenyl ether	mg/kg		5	N.D.		
Nonabromodiphenyl ether	mg/kg	]	5	N.D.		
Decabromodiphenyl ether	mg/kg		5	N.D.		

Tested by : Jooyeon Lee, Chano Kim, Hayan Park

Notes : mg/kg = ppm = parts per million < = Less than

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N.D. = Not detected ( <MDL )

MDL = Method detection limit

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Total Quality. Assured.

# **TEST REPORT**

REPORT NO. RT21R-S4672-001-E

PAGE: 3 of 7 DATE: Jul. 06, 2021

SAMPLE ID NO. : RT21R-S4672-001 SAMPLE DESCRIPTION : SPI-707 BLACK KC WITH SH-2 KC

TEST ITEM	UNIT	TEST METHOD	MDL	RESULT
Hexabromocyclododecane (HBCDD)	mg/kg	With reference to IEC 62321-9(111/409/CD), by solvent extraction and determined by LC/MS and GC/MS	10	N.D.

Tested by : Hayan Park

Notes : mg/kg = ppm = parts per million < = Less than N.D. = Not detected ( <MDL ) MDL = Method detection limit

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PAGE: 4 of 7 DATE: Jul. 06, 2021

SAMPLE ID NO. : RT21R-S4672-001 SAMPLE DESCRIPTION : SPI-707 BLACK KC WITH SH-2 KC

TEST ITEM	CAS NO.	UNIT	TEST METHOD	MDL	RESULT
Dibutyl phthalate (DBP)	84-74-2	mg/kg		50	N.D.
Di(2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	With reference to IEC 62321-8 Edition 1.0 : 2017,	50	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	by solvent extraction and determined by GC/MS	50	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg		50	N.D.

Tested by : Hayan Park

Notes : mg/kg = ppm = parts per million < = Less than N.D. = Not detected ( <MDL ) MDL = Method detection limit

\* View of sample as received;-

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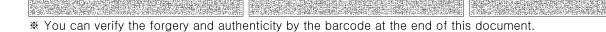


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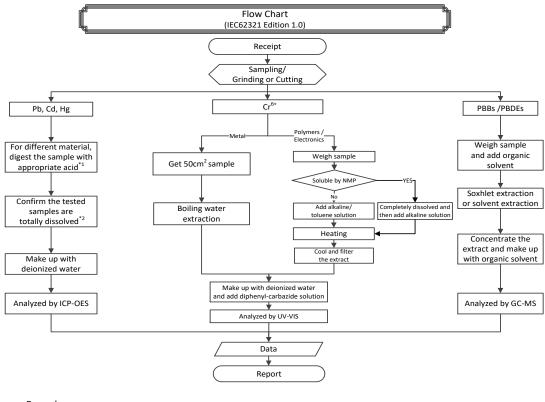




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SAMPLE ID NO. : RT21R-S4672-001 SAMPLE DESCRIPTION : SPI-707 BLACK KC WITH SH-2 KC



Remarks :		
*1 · List of appropriate	hine	

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Material	Acid added for digestion				
Polymers	HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub> , H3BO <sub>3</sub>				
Metals	HNO <sub>3</sub> , HCl, HF				
Electronics	HNO <sub>3</sub> , HCl, H <sub>2</sub> O <sub>2</sub> , HBF <sub>4</sub>				

\*2 : The samples were dissolved totally by pre-conditioning method according to above flow chart.

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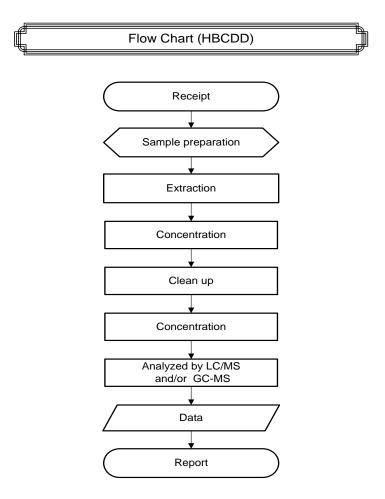
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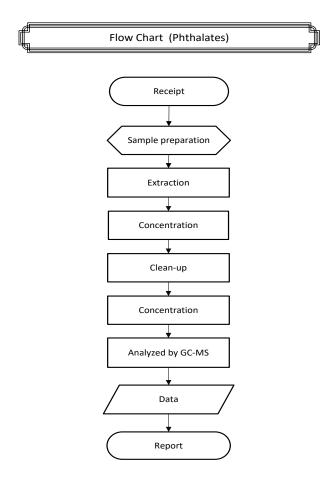
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PAGE: 7 of 7 DATE: Jul. 06, 2021

SAMPLE ID NO. : RT21R-S4672-001 SAMPLE DESCRIPTION : SPI-707 BLACK KC WITH SH-2 KC



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

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