

TEST REPORT

REPORT No.: R2SC130826F0354E

Date: September 22, 2013

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Hangzhou Huatai Optic Tech. Co., Ltd.
Zhejiang Guangtai Optic Tech. Co., Ltd.
2-2-4/F, 224 Tianmushan Road, Hangzhou 310012, P. R. China

Report on the submitted samples said to be:

Sample Name : Optical Receiver
Style/ Item No. : H9122
Sample Receiving Date : August 26, 2013
Lately Re-submit Date : September 16, 2013
Testing Period : From August 26, 2013 to September 22, 2013
Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST

CONCLUSION

A EU RoHS Directive 2011/65/EU -XRF and Chemical test(Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content)

Pass

Signed for and on behalf of
BACL

Checked by: Jane
Jane Xu
Technical Supervisor

Approved by: William
William Wei
Laboratory Manager

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Results:

A. EU RoHS Directive 2011/65/EU on XRF

Test method: With reference to IEC 62321 Ed 1.0:2008, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
	Receiver					
1	Black coated silvery metal – case	BL	BL	BL	BL	---
2	Multi printed blue plastic with glue – sticker , case	BL	BL	BL	BL	BL
3	Black plated silvery metal – screw	BL	BL	BL	BL	---
4	Silvery metal – screw	BL	BL	BL	BL	---
5	Black plastic – fiber wire fixer	BL	BL	BL	BL	BL
6*	Green plastic – case , square socket	BL	BL	BL	BL	X
7*	Green plastic – holder , square socket	BL	BL	BL	BL	X
8	Silvery metal – contact plate , square socket	BL	BL	BL	BL	---
9	White glass – tube , square socket	BL	BL	BL	BL	BL
10	Silvery metal – screw , socket fixer	BL	BL	BL	BL	---
11	Black plastic – cover , square socket	BL	BL	BL	BL	BL
12* ¹	Silvery plated golden metal – case , round socket	OL	BL	BL	BL	---
13* ¹	Silvery plated golden metal – nut , round socket	OL	BL	BL	BL	---
14	Silvery metal – big gasket , round socket	BL	BL	BL	BL	---
15	Silvery metal – small gasket , round socket	BL	BL	BL	BL	---
16	Blue plastic – cover , round socket	BL	BL	BL	BL	BL
17	White plastic – holder , round socket	BL	BL	BL	BL	---
18	Silvery plated golden metal – contact plate , round socket	BL	BL	BL	BL	---
19	Silvery metal – shelf , round socket	BL	BL	BL	BL	---
20*	Green plastic – case , socket , fiber wire	BL	BL	BL	BL	X
21*	White plastic – holder , socket , fiber wire	BL	BL	BL	BL	X

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
22* ¹	Silvery plated golden metal – tube , socket , fiber wire	OL	BL	BL	BL	---
23	Green soft plastic –sleeve , socket , fiber wire	BL	BL	BL	BL	BL
24	Silvery metal –spring , socket , fiber wire	BL	BL	BL	BL	---
25*	Silvery metal –case , plug , fiber wire	BL	BL	BL	X	---
26	Golden metal –pin , plug , fiber wire	BL	BL	BL	BL	---
27*	Golden metal –plate , plug , fiber wire	BL	BL	BL	X	---
28*	Black soft plastic –sleeve , socket , fiber wire	BL	BL	BL	BL	X
29	Black printed white paper – code label , fiber wire	BL	BL	BL	BL	BL
30	White plastic – wire jacket , fiber wire	BL	BL	BL	BL	BL
31	Transparent fiber –fiber	BL	BL	BL	BL	BL
32	Black plastic –sleeve , LED , PCB	BL	BL	BL	BL	BL
33*	Translucent plastic – case , LED , PCB	BL	BL	BL	BL	X
34	Silvery metal – pin , LED , PCB	BL	BL	BL	BL	---
35	Silvery plated golden metal – clip , fiber plug fixer ,PCB	BL	BL	BL	BL	---
36*	Black plastic – case , power socket	BL	BL	BL	BL	X
37	Silvery plated golden metal – column , power socket	BL	BL	BL	BL	---
38	Silvery metal – contact plate , power socket	BL	BL	BL	BL	---
39	Silvery metal – pin , power socket	BL	BL	BL	BL	---
40*	Blue plastic – case , adjuster ,PCB	BL	BL	BL	BL	X
41	Transparent plastic – cover , adjuster ,PCB	BL	BL	BL	BL	BL
42	Red plastic – button , adjuster ,PCB	BL	BL	BL	BL	BL
43*	Black printed translucent plastic – plate , adjuster ,PCB	BL	BL	BL	BL	X
44	Golden metal – contact plate , adjuster ,PCB	BL	BL	BL	BL	---
45	Silvery metal – base , adjuster ,PCB	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
46	Golden metal – base fixer , adjuster ,PCB	BL	BL	BL	BL	---
47	White printed black plastic – sleeve , capacitor, PCB	BL	BL	BL	BL	BL
48	Silvery metal – case , capacitor, PCB	BL	BL	BL	BL	---
49	Silvery metal – foil , capacitor, PCB	BL	BL	BL	BL	---
50	Dull .Silvery metal – foil , capacitor, PCB	BL	BL	BL	BL	---
51	Brown paper – foil , capacitor, PCB	BL	BL	BL	BL	BL
52	Silvery metal – connector , capacitor, PCB	BL	BL	BL	BL	---
53	Black soft plastic – base , capacitor, PCB	BL	BL	BL	BL	BL
54	Brown plastic – case , capacitor”C6” , PCB	BL	BL	BL	BL	BL
55	Silvery metal – pin , capacitor”C6” , PCB	BL	BL	BL	BL	---
56	Black magnet – inductor”L2” , PCB	BL	BL	BL	BL	BL
57	Coppery metal –coil , inductor”L2” , PCB	BL	BL	BL	BL	---
58	Red plated coppery metal –inductor”L1” , PCB	BL	BL	BL	BL	---
59	Black body – EC”Q1” , PCB	BL	BL	BL	BL	BL
60	Black body – EC”U1” , PCB	BL	BL	BL	BL	BL
61	Brown body – SMD capacitor , PCB	BL	BL	BL	BL	BL
62	Black/white body – SMD resistor , PCB	BL	BL	BL	BL	BL
63	Silvery solder – PCB, receiver	BL	BL	BL	BL	---
64	White/green printed white fiber - PCB	BL	BL	BL	BL	BL
	Power line					
65	Black PVC – insulator , plug	BL	BL	BL	BL	BL
66	Silvery plated golden metal – tube , plug	BL	BL	BL	BL	---
67	Yellow plastic – holder , plug	BL	BL	BL	BL	BL
68	Silvery plated golden metal – pin , plug	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
69	Black PVC – cover , magnet ring , cable	BL	BL	BL	BL	BL
70	Black magnet –magnet ring , cable	BL	BL	BL	BL	---
71	White printed black PVC – insulator , cable	BL	BL	BL	BL	BL
72	Black PVC – wire jacket , cable	BL	BL	BL	BL	BL
73	Red PVC – wire jacket , cable	BL	BL	BL	BL	BL
74	Copper metal – insulator , cable	BL	BL	BL	BL	---
	Adapter					
75	Black printed white paper with glue – code label , adapter	BL	BL	BL	BL	BL
76	Black printed white plastic – style label , adapter	BL	BL	BL	BL	BL
77	Transparent plastic - indicator light cover , adapter	BL	BL	BL	BL	BL
78*	Black plastic – case , adapter	BL	BL	BL	BL	X
79	Black soft plastic – wire jacket , adapter	BL	BL	BL	BL	BL
80	Silvery plated copper metal - wire , adapter	BL	BL	BL	BL	---
81	Silvery plated golden metal - pin , adapter	BL	BL	BL	BL	---
82* ²	Clear glass – case , fuse , PCB	OL	BL	BL	BL	BL
83	Silvery metal - pin , fuse , PCB	BL	BL	BL	BL	---
84	Silvery/copper metal - fuse wire , PCB	BL	BL	BL	BL	---
85	Black foam - transformer , PCB	BL	BL	BL	BL	BL
86	Yellow soft plastic – sticker , transformer , PCB	BL	BL	BL	BL	BL
87	Black plastic – shaft , transformer , PCB	BL	BL	BL	BL	BL
88	Black magnet –transformer , PCB	BL	BL	BL	BL	BL
89	Silvery plated copper metal – pin , transformer, PCB	BL	BL	BL	BL	---
90	Copper metal – coil , transformer , PCB	BL	BL	BL	BL	---
91	White printed black plastic – sleeve , capacitor, PCB	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
92	Silvery metal – case , capacitor, PCB	BL	BL	BL	BL	---
93	Silvery metal – foil , capacitor, PCB	BL	BL	BL	BL	---
94	Dull .Silvery metal – foil , capacitor, PCB	BL	BL	BL	BL	---
95	Brown paper – foil , capacitor, PCB	BL	BL	BL	BL	BL
96	Silvery metal – connector , capacitor, PCB	BL	BL	BL	BL	---
97	Black soft plastic – base , capacitor, PCB	BL	BL	BL	BL	BL
98	Blue plastic – case , capacitor"CY1", PCB	BL	BL	BL	BL	BL
99	Brown ceramic – core , capacitor"CY1", PCB	BL	BL	BL	BL	BL
100	Silvery metal – pin , capacitor"CY1", PCB	BL	BL	BL	BL	---
101	Green coating – case , capacitor"C3", PCB	BL	BL	BL	BL	BL
102	Transparent/silvery plastic – film , capacitor"C3", PCB	BL	BL	BL	BL	BL
103	Silvery metal – pin , capacitor"C3", PCB	BL	BL	BL	BL	---
104	Multi printed grey coating – resistor"R1", PCB	BL	BL	BL	BL	BL
105	Silvery metal – cap , resistor"R1", PCB	BL	BL	BL	BL	---
106*	Dull silvery body – core , resistor"R1", PCB	BL	BL	BL	BL	X
107	Silvery metal – pin , resistor"R1", PCB	BL	BL	BL	BL	---
108*	Grey printed black plastic – body , diode"d8", PCB	BL	BL	BL	BL	X
109* ³	Silvery plated coppery /silvery die metal - Connector, diode"d8", PCB	OL	BL	BL	BL	---
110	Silvery metal – pin , diode"d8", PCB	BL	BL	BL	BL	---
111	Transparent green plastic – case , LED	BL	BL	BL	BL	BL
112	Silvery metal – pin , LED	BL	BL	BL	BL	---
113*	Black body – EC"U1"	BL	BL	BL	BL	X
114	Silvery plated coppery metal – pin , EC"U1"	BL	BL	BL	BL	---
115	Black body – EC"U3"	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
116	Silvery metal – pin , EC"U3"	BL	BL	BL	BL	---
117*	Black body – EC"U2"	BL	BL	BL	BL	X
118	Silvery metal – pin , EC"U2"	BL	BL	BL	BL	---
119	Brown body – SMD capacitor , PCB	BL	BL	BL	BL	BL
120	Black/white body – SMD resistor , PCB	BL	BL	BL	BL	BL
121	Silvery solder – PCB, adapter	BL	BL	BL	BL	---
122	White/green printed yellow fiber - PCB	BL	BL	BL	BL	BL

-- = Not Conducted

* = Screening by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

*¹ = As claimed by the material declaration submitted by the client, the materials of the sample No.12, 13, 22 are copper alloy. And according to 2011/65/EU, Lead is exempted as an alloying element in copper containing up to 4% (40000ppm) by weight.

*² = As claimed by the material declaration submitted by the client, the materials of the sample No. 82 is glass. And according to 2011/65/EU, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.

*³ = As claimed by the material declaration submitted by the client, the materials of the sample No. 109 is high melting temperature type solders. And according to 2011/65/EU, Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

Remark:

- i Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321 Ed 1.0:2008.

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Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

Note:

- BL = Below Limit
- OL = Over Limit
- X = Inconclusive

- ii The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from the document 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

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The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

B. The Test Results of Chemical Method:

Test method:

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321 Ed 1.0 Annex B, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321 Ed 1.0 Annex A, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

1) The test results of Cr (VI)

Item	MDL	Results		Limit
		25	27	
Hexavalent Chromium (Cr (VI))	**	Negative	Negative	#
Conclusion	/	Pass	Pass	/

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Note:

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit
- mg/kg = ppm
- ** = Spot-test:
Negative = Absence of Cr(VI) coating/ surface layer, Positive = Presence of Cr(VI) coating/ surface layer;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed)
Boiling-water-extraction:
Negative = Absence of Cr(VI) coating/ surface layer, Positive = Presence of Cr(VI) coating/ surface layer;
The detected concentration in boiling- water-extraction solution is equal or greater than 0.02 mg/kg with 50cm² sample surface areas.
- # =
Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement.
Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.

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2) The test results of PBBs & PBDEs

Item	Unit	MDL	Results					Limit
			6	7	20	21	28	
Polybrominated Biphenyls (PBBs)								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	9	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	9	1000 mg/kg
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results					Limit
			33	36	40	43	78	
Polybrominated Biphenyls (PBBs)								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	5	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	28	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	23	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	38	
Decabromodiphenyl ether	mg/kg	5	N.D.	21	N.D.	N.D.	531	
Total content	mg/kg	/	N.D.	21	N.D.	N.D.	625	1000 mg/kg
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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TEST REPORT

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Item	Unit	MDL	Results				Limit
			106	108	113	117	
Polybrominated Biphenyls (PBBs)							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Photo appendix is included.

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Appendix

Photograph of Sample



BACL authenticate the photo on original report only

*** End of Report ***

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