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High-Flying Electronics Technology Co., Ltd Room 1002, Building 1, No.3000, Longdong Avenue, Pudong New Area, Shanghai, China

Report on the submitted samples said to be:

Sample Name WIFI Serial Device Server

Style /Item No HF2211

High-Flying Electronics Technology Co., Ltd Manufacturer

Sample Receiving Date July 3, 2017

Testing Period From July 3, 2017 to July 28, 2017

Results Please refer to next page(s).

Summary of Test Results:

TEST REQUEST CONCLUSION

Pass

RoHS Directive 2011/65/EU and its amendment directives -XRF screening test and Wet Chemical Testing (Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs

content)

Signed for and on behalf of

BACL

Checked by:

Jane Xu

Technical Supervisor

Approved by:

William Wei Laboratory Manager

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Results:

A. RoHS Directive 2011/65/EU and its amendment directives

XRF screening test

Test method: With reference to IEC62321-3-1:2013 screening by X-ray Fluorescence Spectroscopy (XRF)

Seq.	Tested Part(s)					
No.	resteu Fart(s)	Pb	Cd	Hg	Cr	Br
1	Grey adhesive plastic with white/orange printing(label, WIFI Serial Device Server)	BL	BL	BL	BL	BL
2	Silvery metal(screw, shell, WIFI Serial Device)	BL	BL	BL	BL	
3	Silvery metal(gasket, shell, WIFI Serial Device)	BL	BL	BL	BL	
4	Silvery metal with black coating(screw, shell, WIFI Serial Device)	BL	BL	BL	BL	
5	Silvery metal(screw, terminal, WIFI Serial Device)	BL	BL	BL	BL	
6	Green plastic(pin holder, terminal, WIFI Serial Device)	BL	BL	BL	BL	BL
7* ¹	Silvery plated golden metal(nut, terminal, WIFI Serial Device)	OL	BL	BL	BL	
8	Silvery metal(connector, terminal, WIFI Serial Device)		BL	BL	BL	
9	Silvery metal with black printing(case, WIFI Serial Device)		BL	BL	BL	
10	White paper with black printing (label, WIFI Serial Device)	BL	BL	BL	BL	BL
11	Silvery metal(screw, video socket, WIFI Serial Device)	BL	BL	BL	BL	
12	Silvery metal(shell, video socket, WIFI Serial Device)	BL	BL	BL	BL	
13	Silvery metal(fixer, video socket, WIFI Serial Device)	BL	BL	BL	BL	
14	Golden metal(pin, video socket, WIFI Serial Device)	BL	BL	BL	BL	
15*	Black plastic(pin holder, video socket, WIFI Serial Device)	BL	BL	BL	BL	IN
16* ¹	Golden metal(nut, antenna, socket, WIFI Serial Device)	OL	BL	BL	BL	
17	Golden metal(gasket, antenna, socket, WIFI Serial Device)	BL	BL	BL	BL	
18* ¹	Golden metal(shell, antenna socket, WIFI Serial Device)	OL	BL	BL	BL	
19* ¹	Golden metal(pin, antenna socket, WIFI Serial Device)	OL	BL	BL	BL	
20* ¹	Golden metal(tube, antenna socket)	OL	BL	BL	BL	

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Seq.	Tooted Post(o)			BL BL B B B B B B B		
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br
21	White plastic (pin holder, antenna socket, WIFI Serial Device)	BL	BL	BL	BL	BL
22	Black plastic(sleeve, antenna socket, WIFI Serial Device)	BL	BL	BL	BL	BL
23	Black plastic(wire cable, antenna socket, WIFI Serial Device)	BL	BL	BL	BL	BL
24	Silvery metal(shield, wire, antenna socket, WIFI Serial Device)	BL	BL	BL	BL	
25	Transparent plastic(wire jacket, antenna socket, WIFI Serial Device)	BL	BL	BL	BL	BL
26	Silvery metal(wire, antenna socket, WIFI Serial Device)	BL	BL	BL	BL	
27	Golden meal(shell, plug, PCB)	BL	BL	BL	BL	
28	Golden metal(pin, plug, PCB)	BL	BL	BL	BL	
29	White plastic (pin holder, plug, PCB)	BL	BL	BL	BL	BL
30	Silvery metal(screw, PCB, WIFI Serial Device)		BL	BL	BL	
31	Translucent glue(plug, PCB, WIFI Serial Device)		BL	BL	BL	BL
32*	Black soft plastic(shell, power socket, WIFI Serial Device)	BL	BL	BL	BL	IN
33*	Black plastic(back cover, power socket, WIFI Serial Device)	BL	BL	BL	BL	IN
34	Silvery metal(pin, power socket, WIFI Serial Device)	BL	BL	BL	BL	
35	Silvery metal(connect plate, power socket, WIFI Serial Device)	BL	BL	BL	BL	
36	Silvery metal(fixer, power socket, WIFI Serial Device)	BL	BL	BL	BL	
37	Silvery metal(shell, LAN socket, WIFI Serial Device)	BL	BL	BL	BL	
38*	Black plastic(shell, LAN socket, WIFI Serial Device)	BL	BL	BL	BL	IN
39*	Black plastic(pin holder, LAN socket, WIFI Serial Device)	BL	BL	BL	BL	IN
40	Silvery metal(pin, LAN socket, WIFI Serial Device)	BL	BL	BL	BL	
41	Green plastic(shell, wire socket, WIFI Serial Device)	BL	BL	BL	BL	BL
42	Silvery plated golden metal(pin, wire socket, WIFI Serial Device)	BL	BL	BL	BL	
43*	Black plastic(button ,switch "RELOAD", WIFI Serial Device)	BL	BL	BL	BL	IN
44	Black plastic(shell, switch "RELOAD", WIFI Serial Device)	BL	BL	BL	BL	BL

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Seq.	Tastad Partia		I	Results	S	
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br
45	Silvery metal(fixer, switch "RELOAD", WIFI Serial Device)	BL	BL	BL	BL	
46	Silvery metal(connect plate, switch "RELOAD", WIFI Serial Device)	BL	BL	BL	BL	
47	Black plastic(button, switch "PROTECT", WIFI Serial Device)	BL	BL	BL	BL	BL
48	Brown PCB(switch "PROTECT", WIFI Serial Device)	BL	BL	BL	BL	BL
49	Silvery metal(shell, switch "PROTECT", WIFI Serial Device)	BL	BL	BL	BL	
50	Golden metal(connect plate, switch "PROTECT", WIFI Serial Device)	BL	BL	BL	BL	
51	Silvery metal(shield, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	
52	Golden metal(tube, socket, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	
53	Golden metal(pin, socket, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	
54	White plastic(pin holder, socket, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	BL
55	Black body(IC, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	BL
56	Black body(resistor, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	BL
57	Silvery body(crystal, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	BL
58	Black body(inductor, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	BL
59	Brown body(capacitor, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	BL
60	Yellow body(LED, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	BL
61	White body(EC, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	BL
62	Black body(diode, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	BL
63	Black body(triode, PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	BL
64*	Black PCB(PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	IN
65	Silver solder(PCB"HF-AllX-SMT Embedded WiFi V1.0)	BL	BL	BL	BL	
66*	Red body(LED"POWER", PCB"HF 2211-V2.0)	BL	BL	BL	BL	IN
67	Black plastic(LED holder, LED"POWER", PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
68*	Green body(LED"LINK", PCB"HF 2211-V2.0)	BL	BL	BL	BL	IN

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Seq.	Tooted Port(o)		I	Results	3	
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br
69	Black plastic with yellow printing(sleeve, capacitor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
70	Black plastic with white printing(sleeve, capacitor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
71	Silvery metal(shell, capacitor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	
72	Black rubber(base, capacitor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
73	Brown paper(film, capacitor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
74	Transparent plastic(film, capacitor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
75	Silvery metal(foil, capacitor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	
76	Dull silvery metal(foil, capacitor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	
77	Silvery metal(connector, capacitor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	
78	Silvery plated golden metal(pin, capacitor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	
79	Blue body(capacitor, PCB"HF 2211-V2.0)		BL	BL	BL	BL
80	Black body(IC, PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
81	Black body(resistor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
82	Black body(inductor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
83	Brown body(capacitor, PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
84	Black body(triode, PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
85	Black body(diode, PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
86	White body with black printing(EC, PCB"HF 2211-V2.0)	BL	BL	BL	BL	BL
87*	Black PCB(PCB"HF 2211-V2.0)	BL	BL	BL	BL	IN
88	Silvery solder(PCB"HF 2211-V2.0)	BL	BL	BL	BL	
89	Black soft plastic(shell, antenna)	BL	BL	BL	BL	BL
90	Black plastic(sleeve, antenna)	BL	BL	BL	BL	BL
91	Black plastic(base, antenna)	BL	BL	BL	BL	BL
92	Black plastic(sleeve, pin, antenna)	BL	BL	BL	BL	BL

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Seq.	Tooted Boot(s)		Results					
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br		
93* ¹	Golden metal(pin, antenna)	OL	BL	BL	BL			
94	Silvery metal(shield, antenna)	BL	BL	BL	BL			
95	Silvery solder(shield, antenna)	BL	BL	BL	BL			
96	Transparent pink plastic(cable jacket, antenna)	BL	BL	BL	BL	BL		
97	Silvery metal(shield, wire, antenna)	BL	BL	BL	BL	1		
98	Transparent plastic(wire jacket, antenna)	BL	BL	BL	BL	BL		
99	Silvery metal(wire, antenna)	BL	BL	BL	BL	1		
100	Black plastic(nut fixer, antenna)	BL	BL	BL	BL	BL		
101* ¹	Silvery plated golden metal(nut, antenna)	OL	BL	BL	BL			
102	Red soft plastic(gasket, plug, antenna)	BL	BL	BL	BL	BL		
103* ¹	Silvery plated golden metal(shell, plug, antenna)	OL	BL	BL	BL			
104* ¹	Golden metal(pin, plug, antenna)	OL	BL	BL	BL			
105	Silvery solder(wire, plug, antenna)	BL	BL	BL	BL			
106	White plastic(pin holder, plug, antenna)	BL	BL	BL	BL	BL		
107	Blue soft plastic(shell, plug, Ethernet cable)	BL	BL	BL	BL	BL		
108	Transparent plastic(pin holder, Ethernet cable)	BL	BL	BL	BL	BL		
109	Golden metal(pin, Ethernet cable)	BL	BL	BL	BL			
110	Blue soft plastic with black printing(cable jacket, Ethernet cable)	BL	BL	BL	BL	BL		
111	White plastic with orange printing(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL		
112	White plastic with blue printing(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL		
113	White plastic with green printing(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL		
114	White plastic with coffee printing(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL		
115	Orange plastic(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL		
116	Blue plastic(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL		

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Seq. No.	Tooted Part/a)		i	Results	\$				
	Tested Part(s)	Pb	Cd	Hg	Cr	Br			
117	Green plastic(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL			
118	Coffee plastic(wire jacket, Ethernet cable)		BL	BL	BL	BL			
119	Coppery metal(wire, Ethernet cable)	BL	BL	BL	BL				

Remark:

(1)

-- = Not Conducted

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 IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ< X <130+3σ≤OL	BL≤70-3σ< X <130+3σ≤OL	LOD < 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

BL = Below Limit
OL = Over Limit
IN = Inconclusive

LOD = Limit of Detection

= As claimed by the material declaration submitted by the client, the materials of the sample No. 7 16、18、19、20、93、101、103、104 are copper alloy. And according to RoHS directive2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

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- (2) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from RoHS directive 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
Polybrominate ddiphenylethers (PBDEs)	1000

- (4) As requested by applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU and its amendment directives, other components were not screened included in this report.
- (5) Photo appendix is included.

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

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.

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Wet Chemical Testing:

Test method:

Lead Content:

With reference to IEC62321-5:2013, by acid digestion and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) or Atomic Absorption Spectrometry (AAS).

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

1) The test results of Pb

liam	l lmi4	MDI			Results		
Item	Unit	MDL	7	16	18	19	20
Lead (Pb) Content	mg/kg	10	26320	22750	9715	20750	18540

ltem	Llmi4	MDI		Res	ults	
	Unit	MDL	93	101	103	104
Lead (Pb) Content	mg/kg	10	25900	20860	30520	20950

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2) The test results of PBBs & PBDEs

Itam	l lmi4	MDI		Res	ults		Limit
Item	Unit	MDL	15	32	33	38	Limit
Polybrominated Biphenyls							
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	1	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers							
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	1	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	1	1	Pass	Pass	Pass	Pass	1

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H	I I m i f	MDL		Res	ults		Limit
Item	Unit	OTHE WIDE		43	64	66	Limit
Polybrominated Biphenyls							
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	1	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers							
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
Conclusion	1	1	Pass	Pass	Pass	Pass	1

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Item	Unit	MDL	Results		11
			68	87	Limit
Polybrominated Biphenyls					
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	1	N.D.	N.D.	1000
Polybrominated Diphenylethers					
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	1	N.D.	N.D.	1000
Conclusion	1	1	Pass	Pass	1

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- The results less than MDL are not taken into account while calculating the sum contents.
- mg/kg = ppm
- Photo is included.

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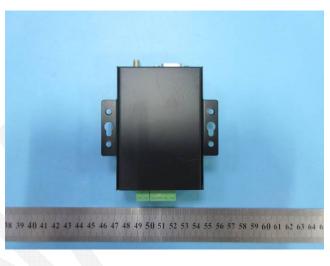
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Photograph of Sample









BACL authenticate the photo on original report only

*** End of Report ***

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