

# Test Report

**Applicant:** GuangZhou STS Lighting Equipment Co., Ltd.  
No.251 Tingshi North Road Chaoyang Shijing Town Baiyun District Guangzhou China

**Report on the submitted sample(s) said to be:**

**Sample Name:** Lighting Equipment  
**Model:** M WASH 520P  
**Trade Mark:** STSLITE  
**Date of Test:** May 16, 2017 ~ May 23, 2017  
**Date of Report:** May 23, 2017

**Test Requested:** As specified by client, to determine the Pb, Cd, Hg, Cr(VI), PBBs, PBDEs content in the submitted sample.

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

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

**Test Conclusion:** Base upon the performed tests by submitted sample, the test results comply with the limits as set by Directive (EU) 2015/863 - Amendment of EU RoHS Directive 2011/65/EU (RoHS 2.0) Annex II.

**Checked By:**



( Eric Zhang )

**Approved By:**



( Melon Tang )

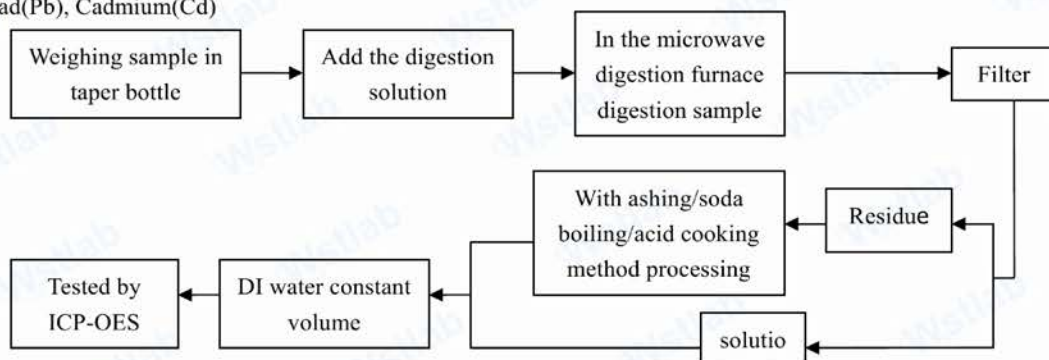
## Test Method:

(1) With reference to IEC 62321:2008

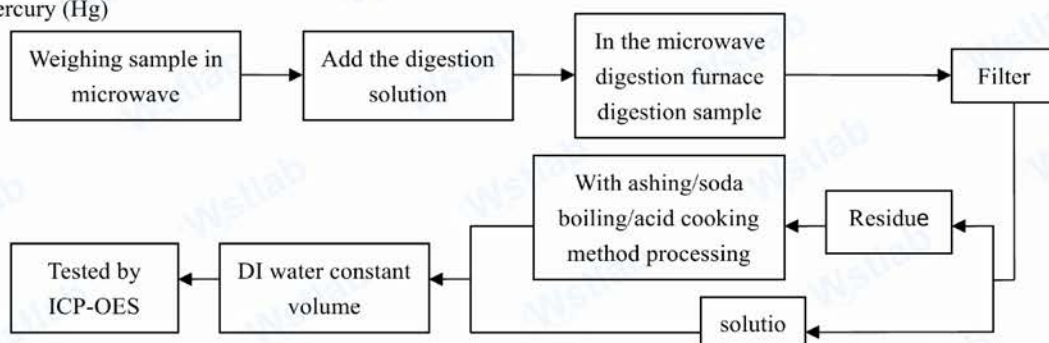
Testing item	Pretreatment method	Measuring instrument	MDL
Lead(Pb)	IEC 62321-5: 2013	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321-5: 2013	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321-4: 2013	ICP-OES	2 mg/kg
Chromium(Cr VI)	IEC 62321:2008	UV-VIS	2 mg/kg
PBBs/ PBDEs	IEC 62321-6:2015	GC-MS	5 mg/kg

## Test Flow:

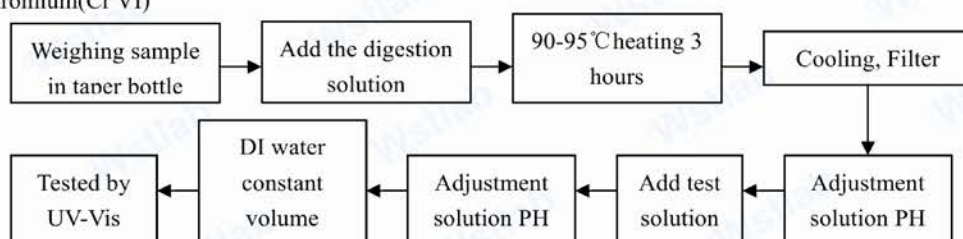
1. Lead(Pb), Cadmium(Cd)



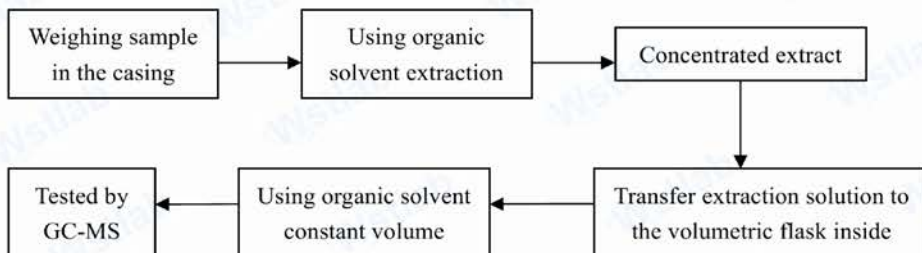
2. Mercury (Hg)



3. Chromium(Cr VI)



## 4. PBBs/ PBDEs



### Test Results:

Testing Item	Unit	ROHS Limit	Result					
			1	2	3	4	5	6
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

### Sample Description:

- 1: Hardware
- 2: Power Supply
- 3: X shaft motor
- 4: Y shaft motor
- 5: The metal straight leg Kalong male female seat
- 6: The qalun board



Testing Item	Unit	ROHS Limit	Result					
			7	8	9	10	11	12
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

#### Sample Description:

- 7: Blue power holder
- 8: White power holder
- 9: Safety tube
- 10: Power cord
- 11: Circuit board
- 12: Light coupler plate

Testing Item	Unit	ROHS Limit	Result					
			13	14	15	16	17	18
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	N.D.
Monobromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Nonabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	N.D.

#### Sample Description:

13: Optocoupler

14: Lens

15: Magnet

16: Magnetic susceptibility

17: Magnetic sensitive plate

18: Lamp beads

Testing Item	Unit	ROHS Limit	Result					
			19	20	21	22	23	24
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

#### Sample Description:

19: Aluminum substrate

20: Fan

21: X axle belt

22: Y axle belt

23: Machine foot

24: Wire rod



Testing Item	Unit	ROHS Limit	Result					
			25	26	27	28	29	/
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	/
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	/
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	/
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	/
Sum of PBBs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	/
Monobromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tribromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Octabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Nonabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Decabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	/
Monobromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Dibromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tetrabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Pentabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Heptabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Octabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	/

#### Sample Description:

- 25: Display sticker
- 26: Quick locking seat
- 27: Plastic bags
- 28: Pearl cotton
- 29: Carton
- 30: Safe seat



Testing Item	Unit	ROHS Limit	Result					
			31	/	/	/	/	/
Lead(Pb)	mg/kg	1000	N.D.	/	/	/	/	/
Cadmium(Cd)	mg/kg	100	N.D.	/	/	/	/	/
Mercury(Hg)	mg/kg	1000	N.D.	/	/	/	/	/
Chromium(Cr VI)	mg/kg	1000	N.D.	/	/	/	/	/
Sum of PBBs	mg/kg	1000	N.D.	/	/	/	/	/
Monobromobiphenyl	mg/kg	-	N.D.	/	/	/	/	/
Dibromobiphenyl	mg/kg	-	N.D.	/	/	/	/	/
Tribromobiphenyl	mg/kg	-	N.D.	/	/	/	/	/
Tetrabromobiphenyl	mg/kg	-	N.D.	/	/	/	/	/
Pentabromobiphenyl	mg/kg	-	N.D.	/	/	/	/	/
Hexabromobiphenyl	mg/kg	-	N.D.	/	/	/	/	/
Heptabromobiphenyl	mg/kg	-	N.D.	/	/	/	/	/
Octabromobiphenyl	mg/kg	-	N.D.	/	/	/	/	/
Nonabromobiphenyl	mg/kg	-	N.D.	/	/	/	/	/
Decabromobiphenyl	mg/kg	-	N.D.	/	/	/	/	/
Sum of PBDEs	mg/kg	1000	N.D.	/	/	/	/	/
Monobromodiphenyl ether	mg/kg	-	N.D.	/	/	/	/	/
Dibromodiphenyl ether	mg/kg	-	N.D.	/	/	/	/	/
Tribromodiphenyl ether	mg/kg	-	N.D.	/	/	/	/	/
Tetrabromodiphenyl ether	mg/kg	-	N.D.	/	/	/	/	/
Pentabromodiphenyl ether	mg/kg	-	N.D.	/	/	/	/	/
Hexabromodiphenyl ether	mg/kg	-	N.D.	/	/	/	/	/
Heptabromodiphenyl ether	mg/kg	-	N.D.	/	/	/	/	/
Octabromodiphenyl ether	mg/kg	-	N.D.	/	/	/	/	/
Nonabromodiphenyl ether	mg/kg	-	N.D.	/	/	/	/	/
Decabromodiphenyl ether	mg/kg	-	N.D.	/	/	/	/	/

Sample Description:

31: Switch

## Notes:

1mg/kg=1ppm = 0.0001%

N.D. = Not Detected (<MDL)

MDL = Method Detection Limit

/=Not Regulated

## Breakdown of product

Sample photo: 1



-----End of report -----