

Applicant: Beijing Shian Technology Instrument Co., Ltd

Contact information: No.623-625, Linji industrial Park, No.53 Shunren Road, Linhe Developing Zone, Shunyi

District, Beijing, China

The following sample(s) was (were) submitted and identified by client as:

Sample Description : Air Quality Monitor

Model No. : SA1200P

Series Model : SA1300P, SA1500P, SA2000, SA5000

Brand : SA

Manufacturer : Beijing Shian Technology Instrument Co., Ltd

Address : No.623-625, Linji industrial Park, No.53 Shunren Road, Linhe Developing

Zone, Shunyi District, Beijing, China

Sample Received Date : Oct. 15, 2019

Varcia

Testing Period : From Oct. 15, 2019 to Dec. 26, 2019

Test Request : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Signed for and on behalf of Shen Zhen UONE Test Co., LTD.

Prepared by Checked by Approved by

Novi Pour

Marcia Deng Nora Deng Pascal Shi



Report No.: U01602191015110-1E Query Password: QW8063 Date: Dec. 26, 2019 Page 2 of 13

Summary of Test Results (Tested parts are required partially by client):

TEST REQUEST

CONCLUSION

RoHS Directive 2011/65/EU and its subsequent amendments & Directive (EU) 2015/863

To determine Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)),

(1) Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)

content by screening test and chemical test

(2) To determine Phthalates (DBP, BBP, DEHP, DIBP) content by chemical test

PASS



### **Test Material List**

| Material No. | Description (Location)           | Photo(s) of tested materials |
|--------------|----------------------------------|------------------------------|
| 10 1 10 m    | White plastic (case)             | 10th, 10th, 10th, 10th       |
| 2            | White plastic cover              | 1 2 3 4 5 6 7 8 11 12 13     |
| 3            | Silver tape                      |                              |
| 4            | Transparent plastic (screen)     |                              |
| 5            | Black foam                       |                              |
| 6            | Silver metal (pin)               |                              |
| £7 £         | White plastic (terminal housing) |                              |
| 8            | White semi-transparent adhesive  | 10, 10, 10, 10,              |
| 9            | Black inner plastic              | 61 62 63 64 9 10             |
| 10           | Silver metal (pin)               |                              |
| 11           | Copper metal (wire)              | 14-17 18 19 20 21 22 23 24   |
| 12           | Half a cellophane tape           |                              |
| 13           | Silver metal (screw)             | 25 26-28 29 30 31-33 34 35   |
| 14           | Black plastic case               | 14-17 18 19 20 21 22 23 24   |
| 15           | Silver metal (patch)             |                              |
| 16           | Silver metal (pin)               |                              |
| 17           | Copper metal (coil)              |                              |
| 18           | Black body (triode, PCB)         |                              |
| 19           | Black body (resistor, PCB)       | 25 26-28 29 30 31-33 34 35   |



| Material No. | Description (Location)                      | Photo(s) of tested materials |
|--------------|---|------------------------------|
| 20           | Grey body (inductor, PCB)                   | at at at                     |
| 21           | Black body (integrated circuit, PCB)        | 101, 101, 101, 10,           |
| 22           | Black body (diode, PCB)                     | de de de                     |
| 23           | Silver metal body (crystal oscillator, PCB) | 10 HI 10 HI 10 HI 10 HI      |
| 24           | Silver metal body (crystal oscillator, PCB) |                              |
| 25           | Silver metal (solder)                       | 14-17 18 19 20 21 22 23 24   |
| 26           | White plastic (switch)                      |                              |
| 27           | Black plastic case                          |                              |
| 28           | Copper metal (connector)                    |                              |
| 29           | Brown body (capacitor, PCB)                 |                              |
| 30           | Black foam                                  | 25 26-28 29 30 31-33 34 35   |
| 31           | Plastic case with silver coating            | 4 4 4                        |
| 32           | Black PCB                                   | OH 10H 10H 10H 10            |
| 33           | Black plastic (row insert)                  |                              |
| 34           | Black body (integrated circuit, PCB)        | WE WE WE OU                  |
| 35           | Yellow body (capacitor, PCB)                | 2 12 12 12                   |
| 36           | Silver metal (socket)                       | all all all a                |
| 37           | Copper metal (pin)                          | 10. 10. 10. 10.              |
| 38           | Black inner plastic                         | St. St. St. S                |
| 39           | Grey glass (screen)                         | 36-38 39-42 43 44 45         |
| 40           | White plastic film                          |                              |
| 41           | Transparent plastic board                   |                              |
| 42           | Silver metal (pin)                          |                              |
| 43           | Green plastic (lampshade)                   |                              |
| 44           | Yellow plastic (lamp shade)                 | 46 47 48                     |
| 45           | Red plastic (lamp shade)                    | at all all a                 |
| 46           | Green PCB                                   | 10, 10, 10, 10,              |
| 47           | Black plastic (cable)                       | 4 4 4                        |

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| Material No.     | Description (Location)  | Photo(s) of tested materials        |
|------------------|-------------------------|-------------------------------------|
| 10 ME 110 ME 110 | THE JOHE JOHE JOHE JOHE | 36-38 39-42 43 44 45                |
| 48               | Red plastic (cable)     |                                     |
| 49               | Silver metal (USB)      | 46 47 48                            |
| 50               | Silver metal (solder)   | CHE ONE ONE ON                      |
| 51               | White inner plastic     | 12, 12, 12, 12,                     |
| 52               | Gold metal (pin)        | 49 50 51 52 53 54 55 56 57 58 59 60 |
| 53               | Black plastic (plug)    |                                     |
| 54               | Black plastic (cable)   |                                     |
| 55               | Copper metal (wire)     |                                     |
| 56               | Silver foil             |                                     |
| 57               | White plastic (cable)   |                                     |
| 58               | Green plastic (cable)   | 0 0 0                               |
| 59               | Red plastic (cable)     | THE WILL WILL WILL                  |
| 60               | Black plastic (cable)   | 112 112 112 112                     |
| 61               | Silver metal (solder)   | 61 62 63 64 9 10                    |
| 62               | Silver metal (socket)   |                                     |
| 63               | Black plastic (plug)    |                                     |
| 64               | Gold metal (pin)        |                                     |



### Test Result(s):

(1) Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)

<u>Test Method:</u> IEC62321-3-1: 2013, IEC62321-4: 2013+A1:2017, IEC62321-5: 2013, IEC62321-6: 2015, IEC 62321-7-1:2015, IEC 62321-7-2: 2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

| 10/91 | 10). | EDX | (RF Res | ult <sup>(1)</sup> | 10/1 | Chemical Result <sup>(2)</sup><br>(mg/kg) | Remark <sup>(3)</sup>                    | Conclusion |
|-------|------|-----|---------|--------------------|------|---|--|------------|
| No.   | Pb   | Cd  | Hg      | Cr                 | Br   |   |  |            |
| 1/1/2 | BL   | BL  | BL      | BL                 | BL   | OHE OHE                                   | Mr -Mr                                   | PASS       |
| 2     | BL   | BL  | BL      | BL                 | BL   | 20 20 2                                   | 170                                      | PASS       |
| 3     | BL   | BL  | BL      | BL                 | BL   | ME - ME                                   | <u> </u>                                 | PASS       |
| 4     | BL   | BL  | BL      | BL                 | BL   | 10, 70, 11                                | ), 170,                                  | PASS       |
| 5     | BL   | BL  | BL      | BL                 | BL   | de - de                                   | & -&                                     | PASS       |
| 6     | BL   | BL  | BL      | BL                 | NA   | 10 20 1c                                  | 12 12 12 12 12 12 12 12 12 12 12 12 12 1 | PASS       |
| 7     | BL   | BL  | BL      | BL                 | BL   | 4 - 4                                     | 4 - 4                                    | PASS       |
| 8     | BL   | BL  | BL      | BL                 | BL   | 10HP TOHP 10                              | Mr. 10Mr.                                | PASS       |
| 9     | BL   | BL  | BL      | BL                 | BL   | 0 0                                       | 2  | PASS       |
| 10    | BL   | BL  | BL      | BL                 | NA   | ME - ME                                   | NE -NE                                   | PASS       |
| 11    | BL   | BL  | BL      | BL                 | NA   | 12 72 11                                  | 170                                      | PASS       |
| 12    | BL   | BL  | BL      | BL                 | BL   | JE - JE                                   | <u> </u>                                 | PASS       |
| 13    | BL   | BL  | BL      | BL                 | NA   | 10, 70, 1                                 | 1, 170,                                  | PASS       |
| 14    | BL   | BL  | BL      | BL                 | BL   | 4 4.                                      | 4, -4,                                   | PASS       |
| 15    | BL   | BL  | BL      | BL                 | NA   | 110 10 10 11                              | July 11 Day                              | PASS       |
| 16    | BL   | BL  | BL      | BL                 | NA   | / - /                                     |  | PASS       |
| 17    | BL   | BL  | BL      | BL                 | NA   | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1    | Mr. 10Mr.                                | PASS       |
| 18    | BL   | BL  | BL      | BL                 | BL   | 0 0                                       | 2  | PASS       |
| 19    | BL   | BL  | BL      | BL                 | BL   | ME -ME                                    | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -  | PASS       |
| 20    | BL   | BL  | BL      | BL                 | BL   | 110 710, 11                               | , 10,                                    | PASS       |
| 21    | BL   | BL  | BL      | BL                 | BL   | de - de                                   | <u> </u>                                 | PASS       |
| 22    | BL   | BL  | BL      | BL                 | BL   | 10, 70, 10                                | 1, 10,                                   | PASS       |
| 23    | BL   | BL  | BL      | BL                 | NA   | U - U                                     | 4 - 4                                    | PASS       |

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| 110 110 |    | EDX                 | (RF Resu | ult <sup>(1)</sup> | 110                   | Chemical Result (2)       | - 1(3)             | 10 10 |
|---------|----|---------------------|----------|--------------------|-----------------------|---------------------------|--------------------|-------|
| No.     | Pb | Cd Hg Cr Br (mg/kg) |          | (mg/kg)            | Remark <sup>(3)</sup> | Conclusion                |                    |       |
| 24      | BL | BLS                 | BL       | BL                 | NA                    | 10, 40, 10                | 1,0,               | PASS  |
| 25      | BL | BL                  | BL       | BL                 | NA                    | 4 4.                      | &&.                | PASS  |
| 26      | BL | BL                  | BL       | BL                 | BL                    | 10 HO 170 HE 110          | Nan Holan          | PASS  |
| 27      | BL | BL                  | BL       | BL                 | BL                    |                           |                    | PASS  |
| 28      | BL | BL                  | BL       | BL                 | NA                    | ,0HF -0HF ,0              | Mr. 'OME           | PASS  |
| 29      | BL | BL                  | BL       | BL                 | BL                    | 0. 0.                     | 0                  | PASS  |
| 30      | BL | BL                  | BL       | BL                 | BL                    | NE -NE                    | NE -NE             | PASS  |
| 31      | BL | BL                  | BL       | BL                 | BL                    | 10, 20, 11                | , 10,              | PASS  |
| 32      | BL | BL                  | BL       | BL                 | BL                    | & - &                     | <u> </u>           | PASS  |
| 33      | BL | BL                  | BL       | BL                 | X                     | PBBs: N.D.<br>PBDEs: N.D. | 101                | PASS  |
| 34      | BL | BL                  | BL       | BL                 | BL                    | & - &                     | & -&               | PASS  |
| 35      | BL | BL                  | BL       | BL                 | BL                    | 10 20 10                  | De Pole            | PASS  |
| 36      | BL | BL                  | BL       | BL                 | NA                    | 7 7.                      | 2 2.               | PASS  |
| 37      | BL | BL                  | BL       | BL                 | NA                    | 10 THO. TO NO.            | Mr. IOH            | PASS  |
| 38      | BL | BL                  | BL       | BL                 | BL                    | 0 0                       | 2                  | PASS  |
| 39      | BL | BL                  | BL       | BL                 | BL                    | Mr - Mr                   | ME -ME             | PASS  |
| 40      | BL | BL                  | BL       | BL                 | BL                    | 12 72 12                  | 100                | PASS  |
| 41      | BL | BL                  | BL       | BL                 | BL                    | JE - JE                   | 16 -16             | PASS  |
| 42      | BL | BL                  | BL       | BL                 | NA                    | 10, 70, 10                | , 10,              | PASS  |
| 43      | BL | BL                  | BL       | BL                 | BL                    | & - &                     | & -&               | PASS  |
| 44      | BL | BL                  | BL       | BL                 | BL                    | 10 pr. 120 pr. 110        | Na. 110 la.        | PASS  |
| 45      | BL | BL                  | BL       | BL                 | BL                    | / /.                      | /. <del>-</del> /. | PASS  |
| 46      | BL | BL                  | BL       | BL                 | BL                    | 10HE 10HE 10              | Mr. OHr.           | PASS  |
| 47      | BL | BL                  | BL       | BL                 | BL                    | 0 0                       | 0                  | PASS  |
| 48      | BL | BL                  | BL       | BL                 | BL                    | ME -ME                    | Mr -Mr             | PASS  |
| 49      | BL | BL                  | BL       | BL                 | NA                    | 110 710 11                | 120                | PASS  |



| No. | 110 | EDX | RF Resu | ılt <sup>(1)</sup> | 110     | Chemical Result (2)   | - 1(2)        | 20 120 |
|-----|-----|-----|---------|--------------------|---------|-----------------------|---------------|--------|
|     | Cd  | Hg  | Cr      | Br                 | (mg/kg) | Remark <sup>(3)</sup> | Conclusion    |        |
| 50  | BL  | BL  | BL      | BL                 | NA      | 10, 70, 11            | 2, 20,        | PASS   |
| 51  | BL  | BL  | BL      | BL                 | BL      | J J.                  | 44.           | PASS   |
| 52  | BL  | BL  | BL      | BL                 | NA      | IIONI ITONI II        | July 11 Dille | PASS   |
| 53  | BL  | BL  | BL      | BL                 | BL      |                       | Dec. 23, 2019 | PASS   |
| 54  | BL  | BL  | BL      | BL                 | BL      | · OHE -OHE .C         | Mr. OHr.      | PASS   |
| 55  | BL  | BL  | BL      | BL                 | NA      | 0. 0. 0               | 0             | PASS   |
| 56  | BL  | BL  | BL      | BL                 | NA      | ME - ME               | NE -NE        | PASS   |
| 57  | BL  | BL  | BL      | BL                 | BL      | 10, 20, 11            | 2. 170.       | PASS   |
| 58  | BL  | BL  | BL      | BL                 | BL      | £ -£                  | & -&          | PASS   |
| 59  | BL  | BL  | BL      | BL                 | BL      | 10, 40, 11            | 2 120 1       | PASS   |
| 60  | BL  | BL  | BL      | BL                 | BL      | 4 - 4                 | 44            | PASS   |
| 61  | BL  | BL  | BL      | BL                 | NA      | 11. THO11. THO11.     | Jan Holling   | PASS   |
| 62  | BL  | BL  | BL      | BL                 | NA      |                       |               | PASS   |
| 63  | BL  | BL  | BL      | BL                 | BL      | OHE OHE               | Dec. 23, 2019 | PASS   |
| 64  | BL  | BL  | BL      | BL                 | NA      | 200 200 12            | 1             | PASS   |



### Remark:

- (1) ①Results are obtained by EDXRF for primary screening, and further wet chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).
  - ②OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.
  - ③The EDXRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.

| Element | Polymer                      | Metal                        | Composite Materials   |
|---------|------------------------------|------------------------------|-----------------------|
| Cd      | BL ≤(70-3σ)< X <(130+3σ)≤ OL | BL ≤(70-3σ)< X <(130+3σ)≤ OL | LOD < X <(150+3σ)≤ OL |
| - Dk    | BL ≤(700-3σ)< X <(1300+3σ)≤  | BL ≤(700-3σ)< X <(1300+3σ)≤  | BL ≤(500-3σ)< X       |
| Pb      | OL OL                        | OL OL                        | <(1500+3σ)≤ OL        |
| 11      | BL ≤(700-3σ)< X <(1300+3σ)≤  | BL ≤(700-3σ)< X <(1300+3σ)≤  | BL ≤(500-3σ)< X       |
| Hg      | OL W                         | OL W                         | <(1500+3σ)≤ OL        |
| Br      | BL ≤ (300-3σ)< X             | NA                           | BL ≤ (250-3σ)< X      |
| Cr      | BL ≤ (700-3σ)< X             | BL ≤ (700-3σ)< X             | BL ≤ (500-3σ)< X      |

### Units and limits in EU RoHS Directive 2011/65/EU:

| Element | Pb    | Cd    | Hg    | Cr(VI) | PBBs(single) | PBDEs(single) |
|---------|-------|-------|-------|--------|--------------|---------------|
| Unit    | mg/kg | mg/kg | mg/kg | mg/kg  | mg/kg        | mg/kg         |
| Limit   | 1000  | 100   | 1000  | 1000   | 1000         | 1000          |

- (2) ① mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than RL).
- ②Unit and RL (Report limit) in wet chemical test.

| Element | Pb    | Cd    | Hg    | Cr(VI) | PBBs(single) | PBDEs(single) |
|---------|-------|-------|-------|--------|--------------|---------------|
| Unit    | mg/kg | mg/kg | mg/kg | mg/kg  | mg/kg        | mg/kg         |
| RL      | 2     | 2     | 2     | 2      | 5            | 5             |

③According to IEC 62321-7-1:2015, result on Cr(VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

- According to IEC 62321-3-1:2013, this column represents the results of wet chem test.
- (3) This column represents the exempted decoration of material or other related testing sample's information.
  - ①The test result(s) of Material No. 53, No.63 is(are) shown retest result, and the retest sample(s) was(were) provided by client on Dec. 23, 2019.



### (2) Phthalates (DBP, BBP, DEHP, DIBP) content

Test Method: IEC 62321-8: 2017, analyzed by gas chromatographic- mass spectrometer (GC-MS).

| Substances    | DBP       | BBP     | DEHP     | DIBP    | 10 P. 10 P. |
|---------------|-----------|---------|----------|---------|-------------|
| CAS No.       | 84-74-2   | 85-68-7 | 117-81-7 | 84-69-5 | 0 0         |
| Limit (mg/kg) | 1000      | 1000    | 1000     | 1000    | Conclusion  |
| RL (mg/kg)    | 30        | 30      | 30       | 30      | 110 110     |
| Material No.  | The state | Result  | (mg/kg)  | ale ale | ale al      |
| 10, 110,      | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 2             | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 0 3 0         | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 4             | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| ON 5 ON       | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 7             | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 8             | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 9             | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 12            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 14            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 18            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 19            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 20            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 21            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 22            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 26            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 27            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 29            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 30            | 199       | N.D.    | N.D.     | N.D.    | PASS        |
| 31            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 32            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |
| 33            | N.D.      | N.D.    | N.D.     | N.D.    | PASS        |

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| Substances    | DBP         | BBP     | DEHP     | DIBP       | 10, 10,    |
|---------------|-------------|---------|----------|------------|------------|
| CAS No.       | 84-74-2     | 85-68-7 | 117-81-7 | 84-69-5    |            |
| Limit (mg/kg) | 1000        | 1000    | 1000     | 1000       | Conclusion |
| RL (mg/kg)    | 30          | 30      | 30       | 30         |            |
| Material No.  | "Obj. "Obj. | Result  | (mg/kg)  | 1019 10191 | 101, 101   |
| 34            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 35            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 38            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 39            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 40            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 41            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 43            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 44            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 45            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 46            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 47            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 48            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 51            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 53            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 54            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 57            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 58            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 59            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 60            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |
| 63            | N.D.        | N.D.    | N.D.     | N.D.       | PASS       |

Note:

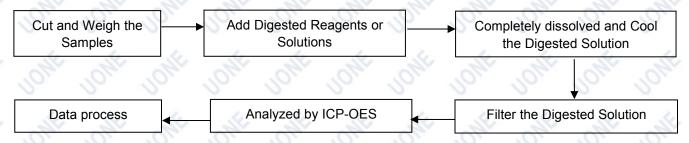
- 1. mg/kg = milligram per kilogram (ppm).
- 2. RL = report limit.
- 3. N.D.=not detected(less than RL).
- 4. The test result(s) of Material No. 53, No.63 is(are) shown retest result, and the retest sample(s)



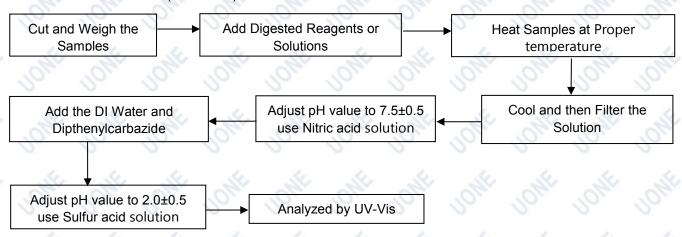
was(were) provided by client on Dec. 23, 2019.

#### **Test Process Flow**

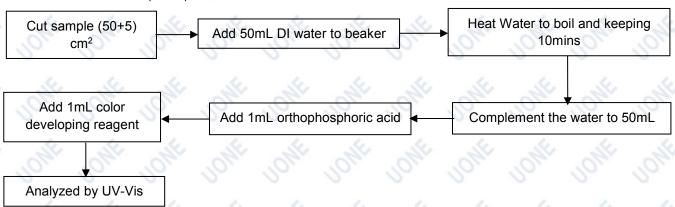
### 1. Lead, Cadmium, Mercury



#### 2. Hexavalent Chromium (Non-metal)



#### Hexavalent Chromium (Metal)



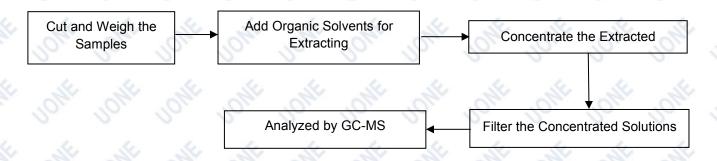
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深圳市宇冠检测有限公司 Shen Zhen UONE Test Co., LTD.



### **Test Process Flow (Continued):**

3. PBBs & PBDEs, Phthalates



### Photo(s) of Sample:



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

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