

# Test Report

No. SZAZZ180907005-01

Date: Sep. 14, 2018

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**Applicant** : Jinan USR IOT Technology Limited

**Address** : Floor 2, Wuzhou Scientific Research Building, No.1100 Shunfeng Street, Gaoxin District, Jinan, Shandong, 250101, China

**The submitted sample and sample information was/were submitted and identified by/on the behalf of the client**

**Sample name** : LoRa Concentrator

**Model No.** : USR-LG220 (main test), USR-LG210, USR-LG230, USR-LG240, USR-LG250, USR-LG260, USR-LG270, USR-LG280, USR-LG290

**Sample received date** : Sep. 07, 2018

**Testing period** : Sep. 07, 2018 to Sep. 14, 2018

**Test requested** : 1. As specified by client, to screen Lead(Pb), Cadmium(Cd), Mercury(Hg), Chromium(Cr) and Bromine(Br) in the submitted sample(s) by XRF.  
2. As specified by client, when screening results exceed the XRF screening limit in IEC 62321-3-1:2013, further use of chemical methods are required to test the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted samples in accordance with the RoHS Directive 2011/65/EU.

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

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

Tested by

*Liqing Yang*

Liqing Yang

Test engineer

Reviewed by

*Niki You*

Niki You

Test engineer

Approved by

*Leo Li*

Leo Li

Authorized signatory



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## Test Method:

### A. Screening test by XRF spectroscopy

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1:2013.

| Element | Limit of IEC 62321-3-1:2013. Unit (mg/kg)                 |   | MDL      |                |
|---------|---|---|----------|----------------|
|         | Polymers and metals                                       | Composite material  | Polymers | Other material |
| Pb      | $BL \leq (700-3\sigma) < X < (1300+3\sigma)$<br>$\leq OL$ | $BL \leq (500-3\sigma) < X < (1500+3\sigma)$<br>$\leq OL$ | 10 mg/kg | 50 mg/kg       |
| Cd      | $BL \leq (70-3\sigma) < X < (130+3\sigma)$<br>$\leq OL$   | $LOD \leq (50-3\sigma) < X < (150+3\sigma)$<br>$\leq OL$  | 10 mg/kg | 50 mg/kg       |
| Hg      | $BL \leq (700-3\sigma) < X < (1300+3\sigma)$<br>$\leq OL$ | $BL \leq (500-3\sigma) < X < (1500+3\sigma)$<br>$\leq OL$ | 10 mg/kg | 50 mg/kg       |
| Cr      | $BL \leq (700-3\sigma) < X$                               | $BL \leq (500-3\sigma) < X$                               | 10 mg/kg | 50 mg/kg       |
| Br      | $BL \leq (300-3\sigma) < X$                               | $BL \leq (250-3\sigma) < X$                               | 10 mg/kg | 50 mg/kg       |

## Note:


- BL = Under the XRF screening limit
- OL = Further chemical test will be conducted while result is above the screening limit
- X= The symbol "X" marks the region where further investigation is necessary
- 3σ= The reproducibility of analytical instruments
- LOD= Detection limit

### B. Chemical Test

| Test Item(s)                    | Test Method                | Measured Equipment(s) | MDL     | Limit      |
|---------------------------------|----------------------------|-----------------------|---------|------------|
| Lead (Pb)                       | IEC 62321-5:2013 Ed.1.0    | ICP-OES               | 2 mg/kg | 1000 mg/kg |
| Cadmium (Cd)                    | IEC 62321-5:2013 Ed.1.0    | ICP-OES               | 2 mg/kg | 100 mg/kg  |
| Mercury (Hg)                    | IEC 62321-4:2013+AMD1:2017 | ICP-OES               | 2 mg/kg | 1000 mg/kg |
| Hexavalent Chromium Cr(VI)      | IEC 62321-7-1:2015 Ed.1.0  | UV-VIS                | /       | 1000 mg/kg |
|                                 | IEC 62321-7-2:2017 Ed.1.0  | UV-VIS                | 2 mg/kg | 1000 mg/kg |
| Polybrominated Biphenyls (PBBs) | IEC 62321-6:2015 Ed.1.0    | GC-MS                 | 5 mg/kg | 1000 mg/kg |
| Polybrominated Diphenyl         | IEC 62321-6:2015 Ed.1.0    | GC-MS                 | 5 mg/kg | 1000 mg/kg |

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|                |  |  |  |  |
|----------------|--|--|--|--|
| Ethers (PBDEs) |  |  |  |  |
|----------------|--|--|--|--|

## Test Results:

| Sample No. | Sample Description                     | Tested Items   | XRF Screening Test Unit (mg/kg) | Chemical Test Unit (mg/kg) | Conclusion |
|------------|--|----------------|---------------------------------|----------------------------|------------|
| 1          | Silvery metal shell with black coating | Pb             | BL                              | /                          | PASS       |
|            |  | Cd             | BL                              | /                          |            |
|            |  | Hg             | BL                              | /                          |            |
|            |  | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |  | Br(PBBs&PBDEs) | /                               | /                          |            |
| 2          | Black metal fixed mount                | Pb             | BL                              | /                          | PASS       |
|            |  | Cd             | BL                              | /                          |            |
|            |  | Hg             | BL                              | /                          |            |
|            |  | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |  | Br(PBBs&PBDEs) | /                               | /                          |            |
| 3          | Silvery metal snap                     | Pb             | BL                              | /                          | PASS       |
|            |  | Cd             | BL                              | /                          |            |
|            |  | Hg             | BL                              | /                          |            |
|            |  | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |  | Br(PBBs&PBDEs) | /                               | /                          |            |
| 4          | Black metal screw                      | Pb             | BL                              | /                          | PASS       |
|            |  | Cd             | BL                              | /                          |            |
|            |  | Hg             | BL                              | /                          |            |
|            |  | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |  | Br(PBBs&PBDEs) | /                               | /                          |            |
| 5          | Silvery metal screw                    | Pb             | BL                              | /                          | PASS       |
|            |  | Cd             | BL                              | /                          |            |
|            |  | Hg             | BL                              | /                          |            |
|            |  | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |  | Br(PBBs&PBDEs) | /                               | /                          |            |
| 6          | Coppery metal pin                      | Pb             | BL                              | /                          | PASS       |
|            |  | Cd             | BL                              | /                          |            |
|            |  | Hg             | BL                              | /                          |            |
|            |  | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |  | Br(PBBs&PBDEs) | /                               | /                          |            |

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| Sample No. | Sample Description | Tested Items   | XRF Screening Test Unit (mg/kg) | Chemical Test Unit (mg/kg) | Conclusion |
|------------|--------------------|----------------|---------------------------------|----------------------------|------------|
| 7          | Label              | Pb             | BL                              | /                          | PASS       |
|            |                    | Cd             | BL                              | /                          |            |
|            |                    | Hg             | BL                              | /                          |            |
|            |                    | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                    | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 8          | Green PCB          | Pb             | BL                              | /                          | PASS       |
|            |                    | Cd             | LOD                             | /                          |            |
|            |                    | Hg             | BL                              | /                          |            |
|            |                    | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                    | Br(PBBs&PBDEs) | X                               | N.D.                       |            |
| 9          | Soldering tin      | Pb             | BL                              | /                          | PASS       |
|            |                    | Cd             | BL                              | /                          |            |
|            |                    | Hg             | BL                              | /                          |            |
|            |                    | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                    | Br(PBBs&PBDEs) | /                               | /                          |            |
| 10         | Chip resister      | Pb             | BL                              | /                          | PASS       |
|            |                    | Cd             | LOD                             | /                          |            |
|            |                    | Hg             | BL                              | /                          |            |
|            |                    | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                    | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 11         | Chip audion        | Pb             | BL                              | /                          | PASS       |
|            |                    | Cd             | LOD                             | /                          |            |
|            |                    | Hg             | BL                              | /                          |            |
|            |                    | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                    | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 12         | Chip capacitor     | Pb             | BL                              | /                          | PASS       |
|            |                    | Cd             | LOD                             | /                          |            |
|            |                    | Hg             | BL                              | /                          |            |
|            |                    | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                    | Br(PBBs&PBDEs) | BL                              | /                          |            |

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|------------|-------------------------|----------------|---------------------------------|----------------------------|------------|
| 13         | Silvery metal plate     | Pb             | BL                              | /                          | PASS       |
|            |                         | Cd             | BL                              | /                          |            |
|            |                         | Hg             | BL                              | /                          |            |
|            |                         | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                         | Br(PBBs&PBDEs) | /                               | /                          |            |
| 14         | Coppery metal connector | Pb             | BL                              | /                          | PASS       |
|            |                         | Cd             | BL                              | /                          |            |
|            |                         | Hg             | BL                              | /                          |            |
|            |                         | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                         | Br(PBBs&PBDEs) | /                               | /                          |            |
| 15         | Grey plastic terminal   | Pb             | BL                              | /                          | PASS       |
|            |                         | Cd             | BL                              | /                          |            |
|            |                         | Hg             | BL                              | /                          |            |
|            |                         | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                         | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 16         | Silvery metal gasket    | Pb             | BL                              | /                          | PASS       |
|            |                         | Cd             | BL                              | /                          |            |
|            |                         | Hg             | BL                              | /                          |            |
|            |                         | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                         | Br(PBBs&PBDEs) | /                               | /                          |            |
| 17         | Chip resister           | Pb             | BL                              | /                          | PASS       |
|            |                         | Cd             | LOD                             | /                          |            |
|            |                         | Hg             | BL                              | /                          |            |
|            |                         | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                         | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 18         | Pin capacitor           | Pb             | BL                              | /                          | PASS       |
|            |                         | Cd             | LOD                             | /                          |            |
|            |                         | Hg             | BL                              | /                          |            |
|            |                         | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                         | Br(PBBs&PBDEs) | BL                              | /                          |            |

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|------------|-----------------------------|----------------|---------------------------------|----------------------------|------------|
| 19         | Black plastic scarfskin     | Pb             | BL                              | /                          | PASS       |
|            |                             | Cd             | BL                              | /                          |            |
|            |                             | Hg             | BL                              | /                          |            |
|            |                             | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                             | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 20         | Black plastic jacket        | Pb             | BL                              | /                          | PASS       |
|            |                             | Cd             | BL                              | /                          |            |
|            |                             | Hg             | BL                              | /                          |            |
|            |                             | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                             | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 21         | Chip crystal oscilloscope   | Pb             | BL                              | /                          | PASS       |
|            |                             | Cd             | LOD                             | /                          |            |
|            |                             | Hg             | BL                              | /                          |            |
|            |                             | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                             | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 22         | Blue PCB                    | Pb             | BL                              | /                          | PASS       |
|            |                             | Cd             | LOD                             | /                          |            |
|            |                             | Hg             | BL                              | /                          |            |
|            |                             | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                             | Br(PBBs&PBDEs) | X                               | N.D.                       |            |
| 23         | Silvery metal USB connector | Pb             | BL                              | /                          | PASS       |
|            |                             | Cd             | BL                              | /                          |            |
|            |                             | Hg             | BL                              | /                          |            |
|            |                             | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                             | Br(PBBs&PBDEs) | /                               | /                          |            |
| 24         | Chip inductor               | Pb             | BL                              | /                          | PASS       |
|            |                             | Cd             | LOD                             | /                          |            |
|            |                             | Hg             | BL                              | /                          |            |
|            |                             | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                             | Br(PBBs&PBDEs) | BL                              | /                          |            |

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|------------|---------------------|----------------|---------------------------------|----------------------------|------------|
| 25         | Chip audion         | Pb             | BL                              | /                          | PASS       |
|            |                     | Cd             | LOD                             | /                          |            |
|            |                     | Hg             | BL                              | /                          |            |
|            |                     | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                     | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 26         | Chip capacitor      | Pb             | BL                              | /                          | PASS       |
|            |                     | Cd             | LOD                             | /                          |            |
|            |                     | Hg             | BL                              | /                          |            |
|            |                     | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                     | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 27         | Coppery metal frame | Pb             | BL                              | /                          | PASS       |
|            |                     | Cd             | BL                              | /                          |            |
|            |                     | Hg             | BL                              | /                          |            |
|            |                     | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                     | Br(PBBs&PBDEs) | /                               | /                          |            |
| 28         | Blue PCB            | Pb             | BL                              | /                          | PASS       |
|            |                     | Cd             | LOD                             | /                          |            |
|            |                     | Hg             | BL                              | /                          |            |
|            |                     | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                     | Br(PBBs&PBDEs) | X                               | N.D.                       |            |
| 29         | IC                  | Pb             | BL                              | /                          | PASS       |
|            |                     | Cd             | LOD                             | /                          |            |
|            |                     | Hg             | BL                              | /                          |            |
|            |                     | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                     | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 30         | Chip diode          | Pb             | BL                              | /                          | PASS       |
|            |                     | Cd             | LOD                             | /                          |            |
|            |                     | Hg             | BL                              | /                          |            |
|            |                     | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                     | Br(PBBs&PBDEs) | BL                              | /                          |            |

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|------------|----------------------|----------------|---------------------------------|----------------------------|------------|
| 31         | Yellow plastic key   | Pb             | BL                              | /                          | PASS       |
|            |                      | Cd             | BL                              | /                          |            |
|            |                      | Hg             | BL                              | /                          |            |
|            |                      | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                      | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 32         | Silvery metal spring | Pb             | BL                              | /                          | PASS       |
|            |                      | Cd             | BL                              | /                          |            |
|            |                      | Hg             | BL                              | /                          |            |
|            |                      | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                      | Br(PBBs&PBDEs) | /                               | /                          |            |
| 33         | Soldering tin        | Pb             | BL                              | /                          | PASS       |
|            |                      | Cd             | BL                              | /                          |            |
|            |                      | Hg             | BL                              | /                          |            |
|            |                      | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                      | Br(PBBs&PBDEs) | /                               | /                          |            |
| 34         | Red LED              | Pb             | BL                              | /                          | PASS       |
|            |                      | Cd             | LOD                             | /                          |            |
|            |                      | Hg             | BL                              | /                          |            |
|            |                      | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                      | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 35         | Green LED            | Pb             | BL                              | /                          | PASS       |
|            |                      | Cd             | LOD                             | /                          |            |
|            |                      | Hg             | BL                              | /                          |            |
|            |                      | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                      | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 36         | Black inner plastic  | Pb             | BL                              | /                          | PASS       |
|            |                      | Cd             | BL                              | /                          |            |
|            |                      | Hg             | BL                              | /                          |            |
|            |                      | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                      | Br(PBBs&PBDEs) | BL                              | /                          |            |

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|------------|------------------------|----------------|---------------------------------|----------------------------|------------|
| 37         | Green plastic terminal | Pb             | BL                              | /                          | PASS       |
|            |                        | Cd             | BL                              | /                          |            |
|            |                        | Hg             | BL                              | /                          |            |
|            |                        | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                        | Br(PBBs&PBDEs) | BL                              | /                          |            |
| 38         | Silvery metal pin      | Pb             | BL                              | /                          | PASS       |
|            |                        | Cd             | BL                              | /                          |            |
|            |                        | Hg             | BL                              | /                          |            |
|            |                        | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                        | Br(PBBs&PBDEs) | /                               | /                          |            |
| 39         | Black plastic shell    | Pb             | BL                              | /                          | PASS       |
|            |                        | Cd             | BL                              | /                          |            |
|            |                        | Hg             | BL                              | /                          |            |
|            |                        | Cr(Cr(VI) )    | BL                              | /                          |            |
|            |                        | Br(PBBs&PBDEs) | BL                              | /                          |            |

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## Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Negative = Absence of Cr(VI) , the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.10ug/cm<sup>2</sup>.
- Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than 0.13ug/cm<sup>2</sup>.

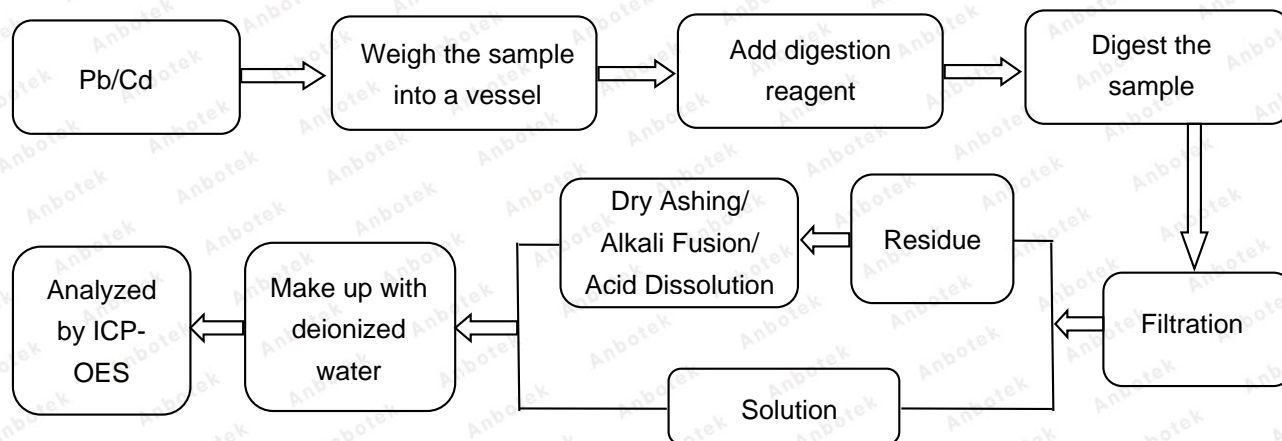
## Remark:

- The screening results are only used for reference.
- When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.

## Test Process:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

### ◆ IEC 62321-5:2013 Ed.1.0



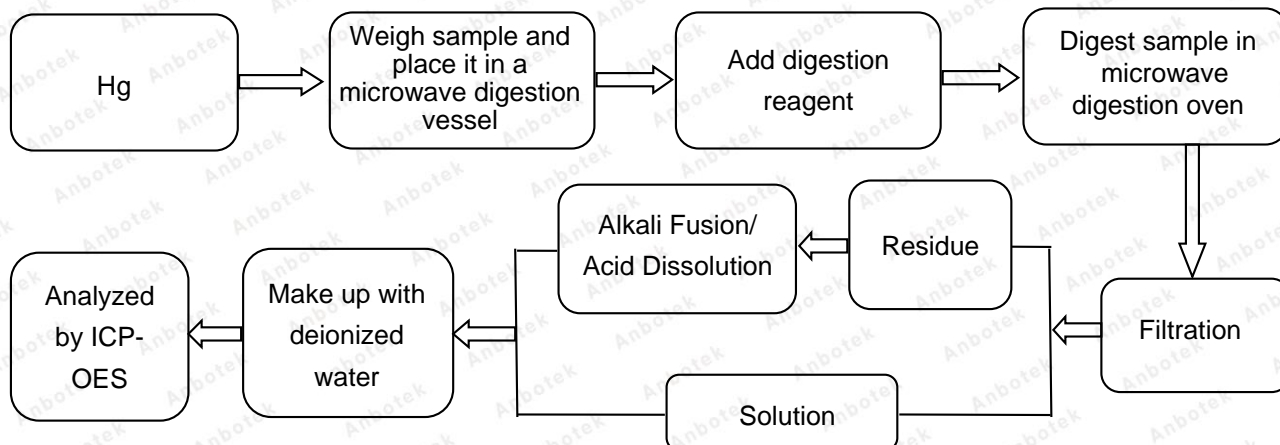
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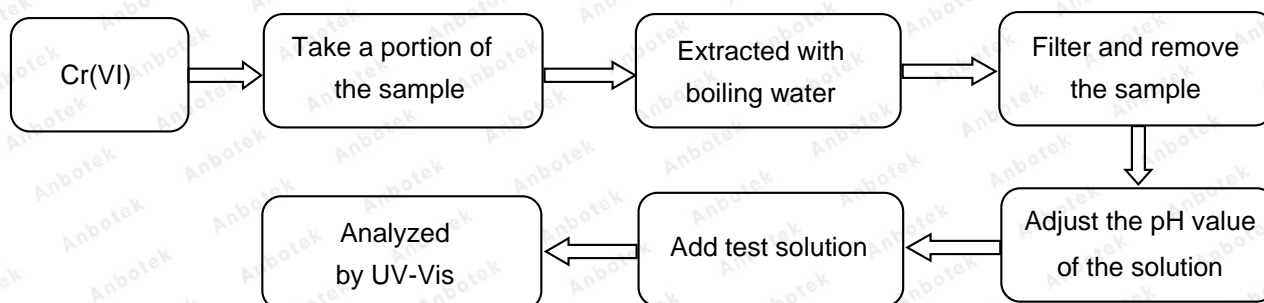
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◆ IEC 62321-4:2013+AMD1:2017



◆ IEC 62321-7-1:2015 Ed.1.0



◆ IEC 62321-7-2:2017 Ed.1.0

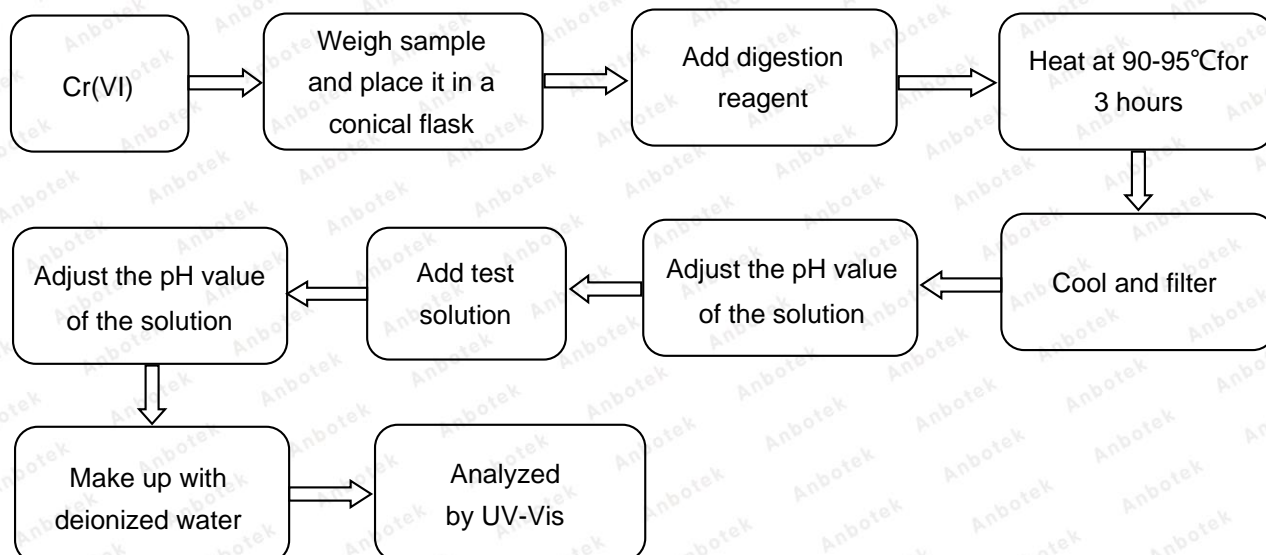


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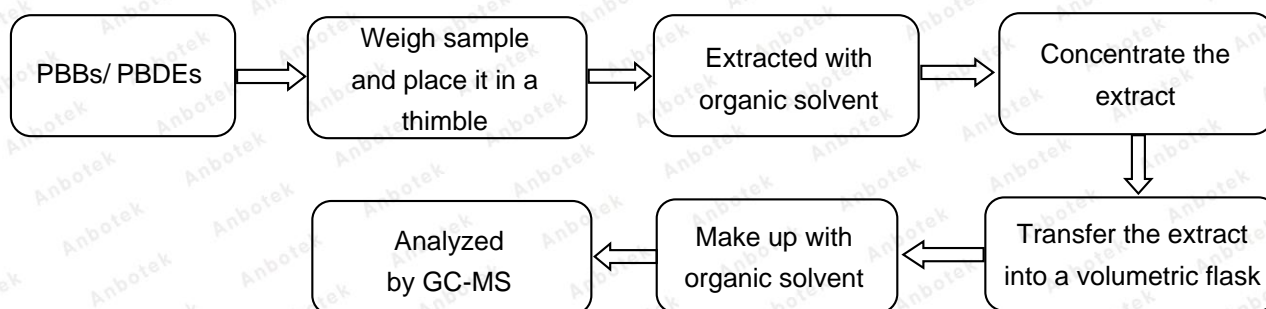
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## Photograph of Sample

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Photo(s) of the tested component(s)

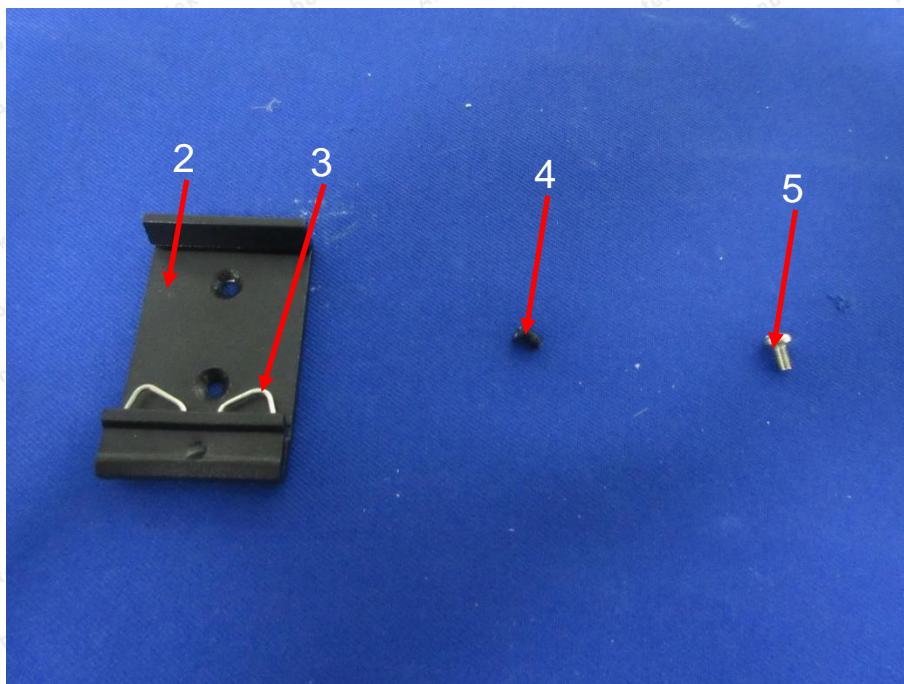
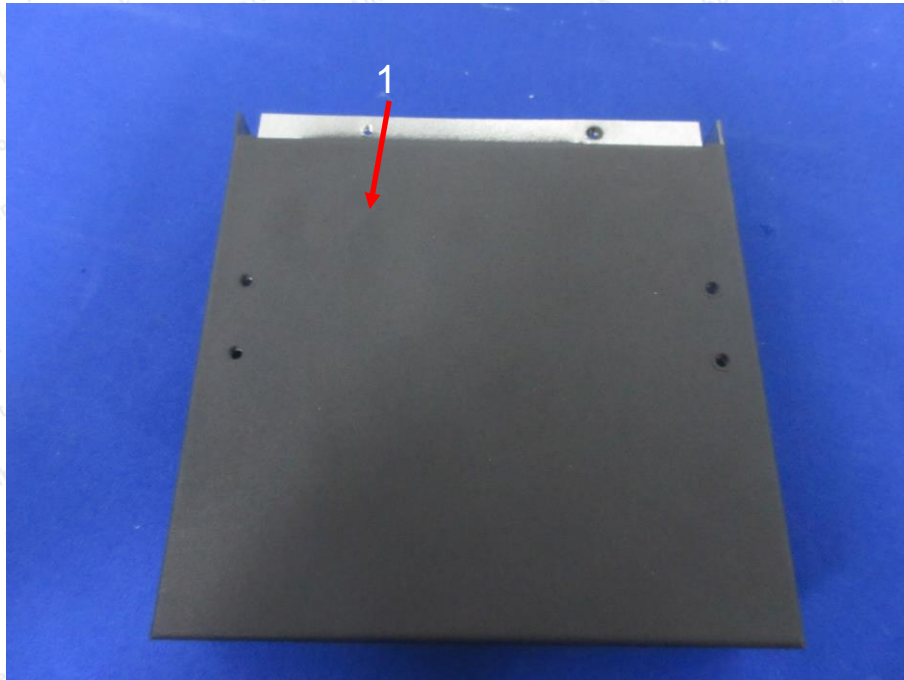


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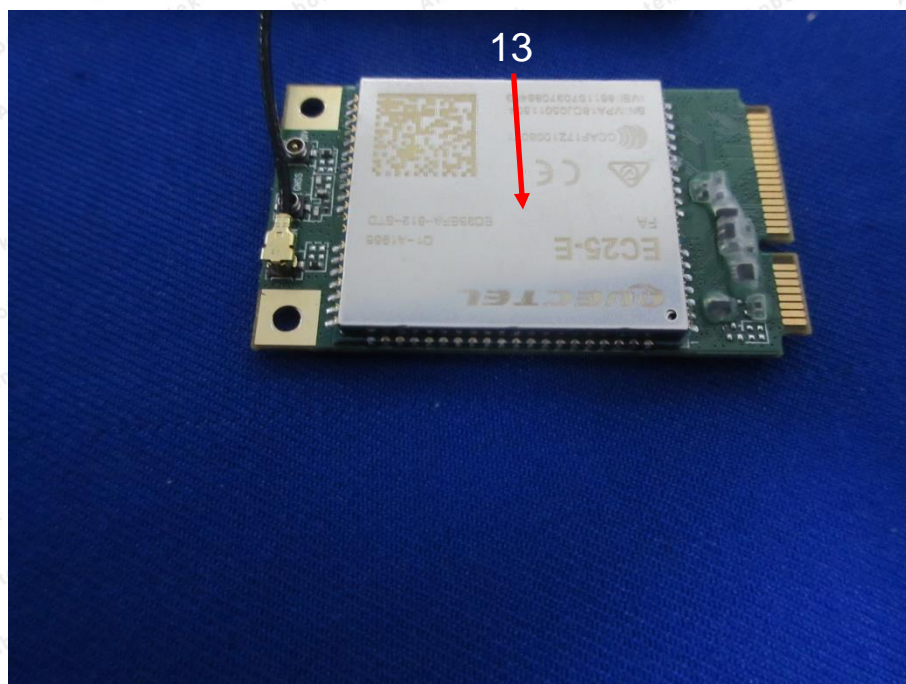
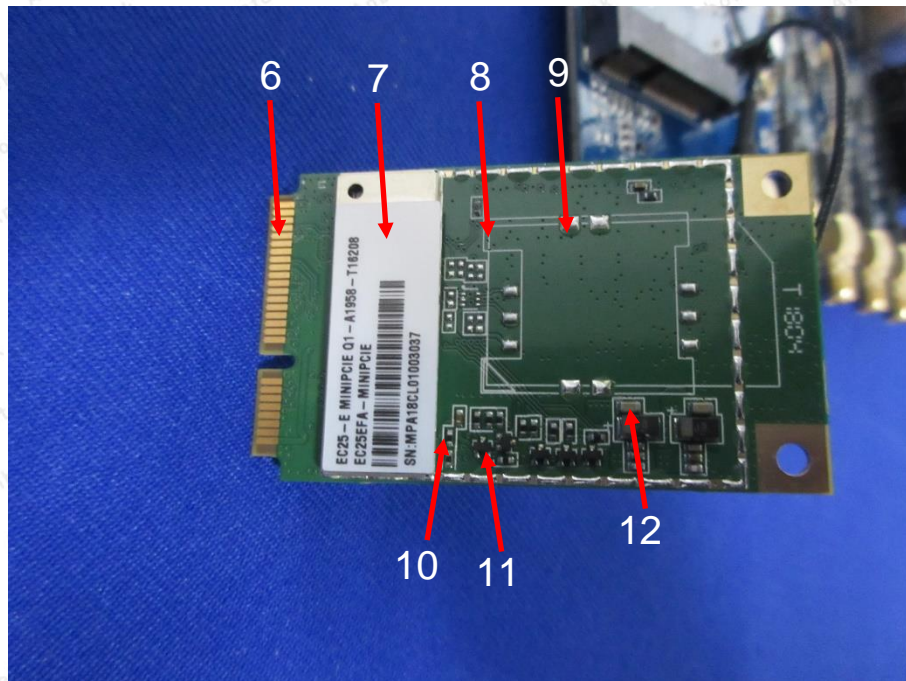


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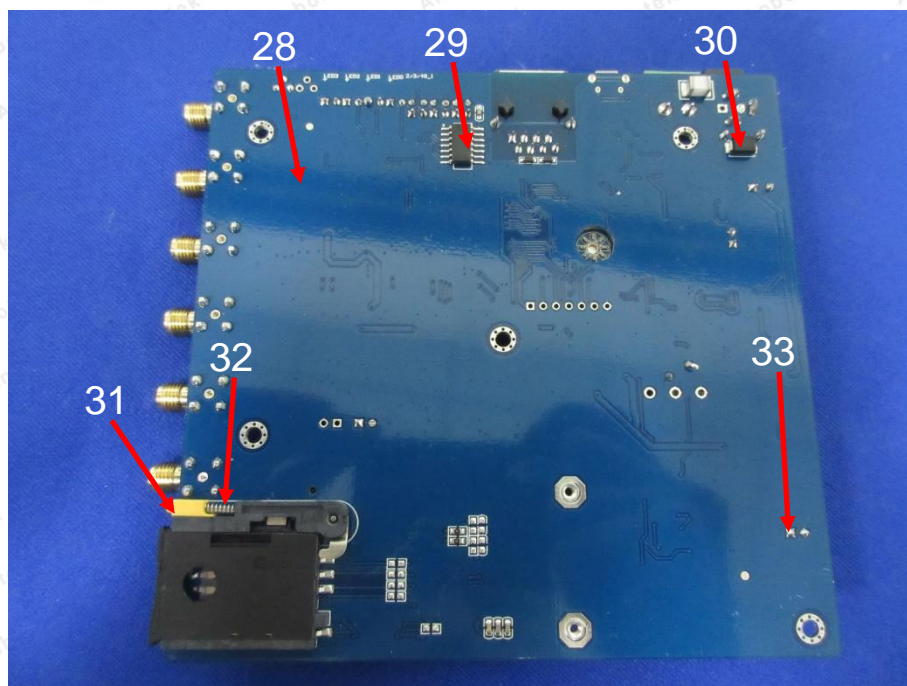
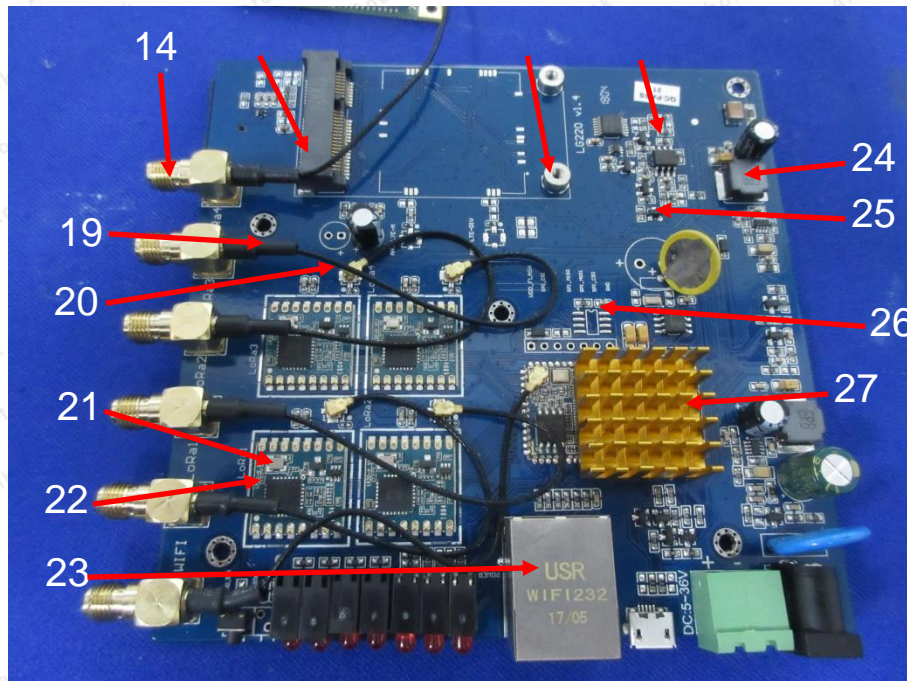


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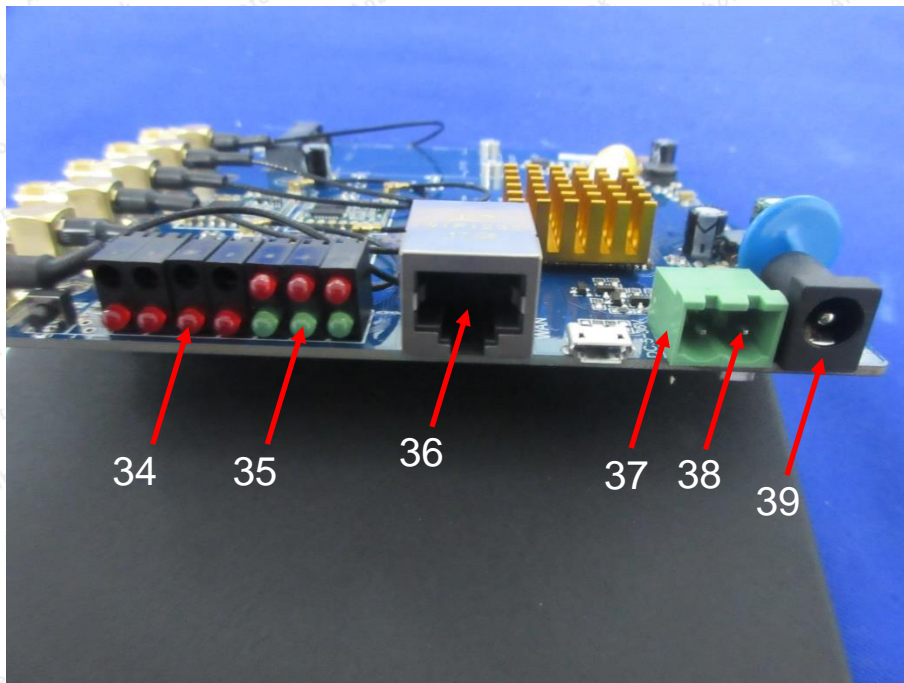


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\*\*\*\*\* End of Report \*\*\*\*\*

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