



# TEST REPORT

**Applicant** : Power Genius GmbH  
**Address** : Wallbergstr. 3, 82024, Taufkirchen

**Report on the submitted samples said to be:**

**Sample Name(s)** : Home Energy Hub  
**Trade Mark** : N/A  
**Tested Model No.** : PG-2000A、PG-2000A1、PG-2000B、PG-2000B1、SFA 1800、PFA 2000  
**Sample Received Date** : May 15, 2025  
**Testing Period** : May 15, 2025 ~ May 26, 2025  
**Date of Report** : May 28, 2025  
**Testing Location** : 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China  
**Results** : Please refer to next page(s).

| TEST REQUEST                                                                                                                                                                                                                                                                                                                                                                           | CONCLUSION |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| As specified by client, based on the performed tests on submitted sample, the result of Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, Dibutyl Phthalate(DBP), Butylbenzyl Phthalate(BBP), Di-2-ethylhexyl Phthalate(DEHP) and Diisobutyl phthalate(DIBP) content comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863. | PASS       |

Signed for and on behalf of LCS

Terry Luo

TRF-4-R-027 A/0



Shenzhen LCS Compliance Testing Laboratory Ltd.  
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**A. EU RoHS Directive 2011/65/EU and its amendment directives**

Test method: Refer to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF).

Test result(s):

| Sample No. | Sample Description           | Screening Result(s) |    |    |     |      |       | Date of sample submission/ Resubmission |
|------------|------------------------------|---------------------|----|----|-----|------|-------|-----------------------------------------|
|            |                              | Cd                  | Pb | Hg | Cr▼ | Br▼  |       |                                         |
|            |                              |                     |    |    |     | PBBs | PBDEs |                                         |
| 1          | Grey metal casing (aluminum) | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                              |
| 2          | Black plastic shell          | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 3          | Grey metal casing (aluminum) | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                              |
| 4          | Silver metal screw           | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                              |
| 5          | Silver metal screw           | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                              |
| 6          | Silver metal nut             | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                              |
| 7          | Silver metal screw           | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                              |
| 8          | Silver metal sheet metal     | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                              |
| 9          | Silver metal nut             | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                              |
| 10         | Black plastic ring           | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 11         | Silver metal shell (switch)  | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                              |
| 12         | Black plastic wire leather   | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 13         | White plastic shell          | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 14         | Yellow plastic wire leather  | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 15         | Black plastic wire leather   | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 16         | Green plastic wire cover     | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 17         | Red plastic wire cover       | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 18         | Orange plastic wire cover    | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 19         | Silver metal wire            | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                              |
| 20         | Black metal screw            | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                              |
| 21         | White fixing adhesive        | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 22         | Black PCB soft board         | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 23         | Black plastic wire leather   | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 24         | Yellow metal shell           | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                              |
| 25         | Grey plastic shell           | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |
| 26         | Red sealing ring             | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                              |

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| Sample No. | Sample Description               | Screening Result(s) |    |    |     |      |       | Date of sample submission/<br>Resubmission |
|------------|----------------------------------|---------------------|----|----|-----|------|-------|--------------------------------------------|
|            |                                  | Cd                  | Pb | Hg | Cr▼ | Br▼  |       |                                            |
|            |                                  |                     |    |    |     | PBBs | PBDEs |                                            |
| 27         | Silver metal shell               | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 28         | Grey plastic wire leather        | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 29         | White silicone                   | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 30         | Silver metal shell (aluminum)    | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 31         | Green PCB board                  | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 32         | Black plastic sleeve             | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 33         | Green PCB board                  | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 34         | Beige plastic shell              | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 35         | Green PCB board                  | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 36         | Silver metal terminal            | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 37         | Black plastic wire leather       | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 38         | White plastic shell              | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 39         | Red sealing ring                 | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 40         | Grey thermal conductive adhesive | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 41         | Blue thermal conductive adhesive | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 42         | Grey insulation sheet            | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 43         | Silver metal pillar              | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 44         | Silver metal shrapnel            | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 45         | Black chip                       | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 46         | Solder                           | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 47         | Black transistor                 | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 48         | Black chip                       | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 49         | Black diode                      | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 50         | Silver metal seat                | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 51         | Silver metal sheet               | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 52         | Yellow resin                     | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 53         | Black chip                       | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 54         | Copper wire                      | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 55         | Yellow plastic shell             | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 56         | Black plastic paper              | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 57         | Silver metal shell (aluminum)    | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 58         | Black plastic plug               | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |

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| Sample No. | Sample Description         | Screening Result(s) |    |    |     |      |       | Date of sample submission/<br>Resubmission |
|------------|----------------------------|---------------------|----|----|-----|------|-------|--------------------------------------------|
|            |                            | Cd                  | Pb | Hg | Cr▼ | Br▼  |       |                                            |
|            |                            |                     |    |    |     | PBBs | PBDEs |                                            |
| 59         | Sellotape                  | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 60         | Grey metal sheet           | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 61         | Silver metal sheet         | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 62         | Yellow wet paper           | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 63         | Silver metal pins          | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 64         | Grey plastic shell         | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 65         | White plastic shell        | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 66         | Black plastic shell        | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 67         | White plastic shell        | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 68         | Copper wire                | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 69         | Black insulation sheet     | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 70         | White ceramic tile         | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 71         | Silver metal pins          | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 72         | Black ceramic shell        | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 73         | Yellow metal pillar        | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 74         | Silver metal spring        | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 75         | Silver metal screw         | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 76         | Silver metal screw         | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 77         | Silver metal block         | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 78         | Silver metal sheet         | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 79         | Silver metal pins          | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 80         | White plastic sheet        | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 81         | Black plastic shell (soft) | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 82         | Black plastic gasket       | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 83         | Black plastic shell        | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 84         | Yellow metal block         | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 85         | Red plastic shell          | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 86         | Black plastic wire leather | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 87         | Red plastic wire cover     | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 88         | Silver metal terminal      | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 89         | Black plastic wire leather | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 90         | Silver metal wire          | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 91         | Red plastic wire           | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |

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|------------|------------------------------|---------------------|----|----|-----|------|-------|--------------------------------------------|
|            |                              | Cd                  | Pb | Hg | Cr▼ | Br▼  |       |                                            |
|            |                              |                     |    |    |     | PBBs | PBDEs |                                            |
|            | cover                        |                     |    |    |     |      |       |                                            |
| 92         | White plastic ring           | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 93         | Black plastic shell          | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 94         | Silver metal pin             | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 95         | Black plastic shell          | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 96         | White plastic ring           | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 97         | Yellow plastic wire leather  | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 98         | Black plastic sleeve         | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 99         | Silver metal pin             | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 100        | White plastic shell          | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 101        | Black plastic shell          | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 102        | Black plastic nut            | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 103        | Red sealing ring             | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 104        | Black plastic shell          | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 105        | Silver metal pin             | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 106        | Copper Bar                   | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 107        | Orange plastic skin          | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 108        | Red sealing ring             | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 109        | Black plastic shell          | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 110        | White tape                   | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 111        | Yellow plastic board         | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 112        | Silver metal sheet           | BL                  | BL | BL | BL  | /    | /     | 2025-05-15                                 |
| 113        | White plastic casing         | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 114        | Black plastic wire leather   | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 115        | White plastic wire cover     | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 116        | Red plastic wire cover       | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 117        | Black foam                   | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |
| 118        | Blue plastic paper (battery) | BL                  | BL | BL | BL  | BL   | BL    | 2025-05-15                                 |





## Note:

1. 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 62321-3-1:2013(Unit: mg/kg).

| Element | Polymers                                             | Metals                                               | Composite material                                   |
|---------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Cd      | $BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$   | $BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$   | $LOD < X < (150+3\sigma) \leq OL$                    |
| Pb      | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$ |
| Hg      | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$ |
| Cr      | $BL \leq (700-3\sigma) < X$                          | $BL \leq (700-3\sigma) < X$                          | $BL \leq (500-3\sigma) < X$                          |
| Br      | $BL \leq (300-3\sigma) < X$                          | N/A                                                  | $BL \leq (250-3\sigma) < X$                          |

## Remark:

- BL= Below Limit
  - OL= Over Limit
  - X= The range of needing to do further testing
  - $3\sigma$ = The reproducibility of analytical instruments
  - N/A= Not applicable
  - LOD= Detection limit
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 the document RoHS Directive 2011/65/EU with amendment (EU) 2015/863.
  4. ▼=For restricted substances PBBs and PBDEs, the results show the total Br content, the restricted substance was Cr(VI), and the results showed the total Cr content.







| RoHS Restricted Substances           | Maximum Concentration Value (mg/kg)<br>(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                                                                       |
| Dibutyl Phthalate(DBP)               | 1000                                                                       |
| Butylbenzyl Phthalate(BBP)           | 1000                                                                       |
| Di-(2-ethylhexyl) Phthalate(DEHP)    | 1000                                                                       |
| Diisobutyl phthalate(DIBP)           | 1000                                                                       |

**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.



**B. EU RoHS Directive 2011/65/EU with amendment (EU) 2015/863 on DBP, BBP, DEHP & DIBP content**

Test method:

Phthalates(DBP, BBP, DEHP &amp; DIBP) Content:

Refer to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatography-mass spectrometer (GC-MS).

Test result(s):

**1) Phthalates(DBP, BBP, DEHP & DIBP)**

| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) |      |      |      | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------|------|------|------------------|
|                                           |                | 37                        | 39   | 87   | 98   |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | N.D. | N.D. | N.D. | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | N.D. | N.D. | N.D. | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | N.D. | N.D. | N.D. | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | N.D. | N.D. | N.D. | 1000             |

| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 107                       |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 2+10+12+13+14+15          |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

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| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 16+17+18+21+22+23         |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 25+26+28+29+31+32         |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 33+34+35+38+40+41         |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 42+45+47+48+49+52         |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

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| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 53+55+56+58+59+62         |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 64+65+66+67+69+70         |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 72+80+81+82+83+85         |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 86+89+91+92+93+95         |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

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| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 96+97+100+101+102+103     |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 104+108+109+110+111+113   |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------------------------|----------------|---------------------------|------------------|
|                                           |                | 114+115+116+117+118       |                  |
| Dibutyl Phthalate(DBP) Content            | 50             | N.D.                      | 1000             |
| Butylbenzyl Phthalate(BBP) Content        | 50             | N.D.                      | 1000             |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50             | N.D.                      | 1000             |
| Diisobutyl phthalate(DIBP) Content        | 50             | N.D.                      | 1000             |

## Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg= milligram per kilogram=ppm
- According to customer's requirement, only the appointed materials have been tested.

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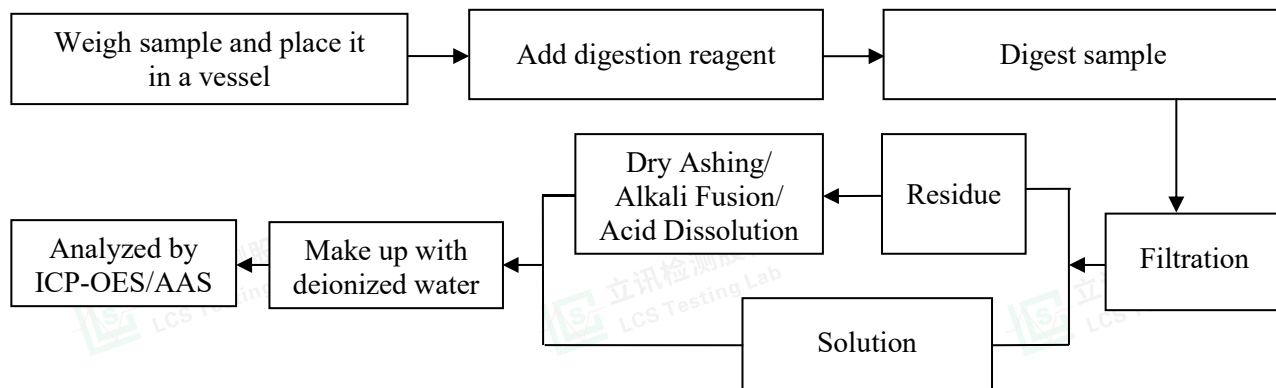


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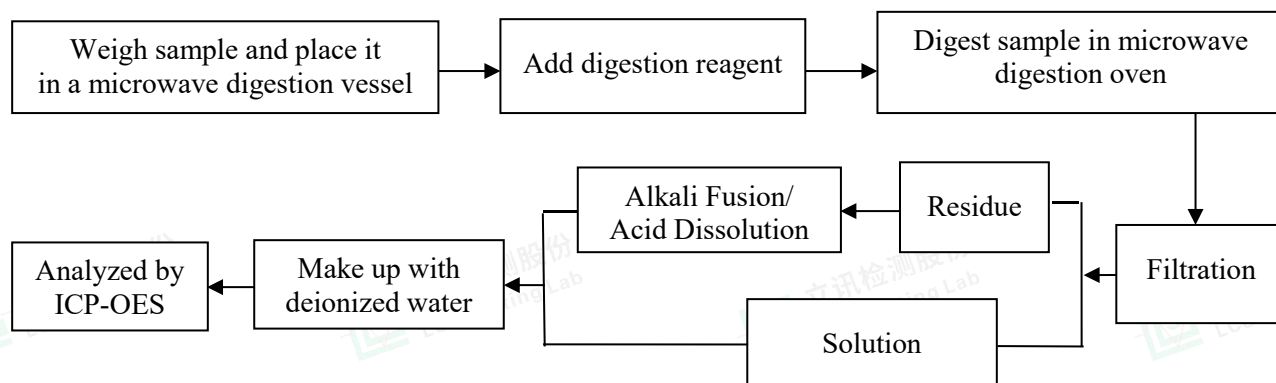


## Test Process

### 1. Lead(Pb) & Cadmium(Cd): IEC 62321-5:2013

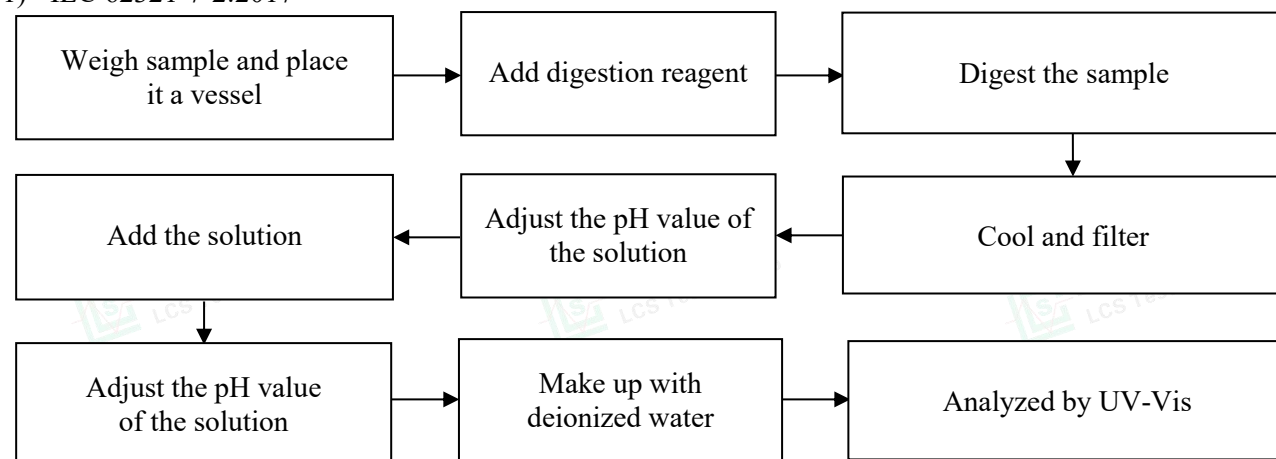


### 2. Mercury(Hg): IEC 62321-4:2013+AMD1:2017 CSV



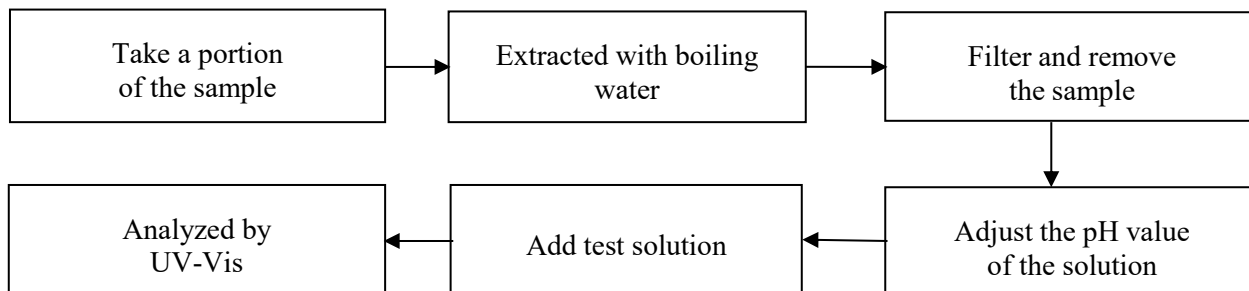
### 3. Hexavalent Chromium(Cr(VI))

#### 1) IEC 62321-7-2:2017

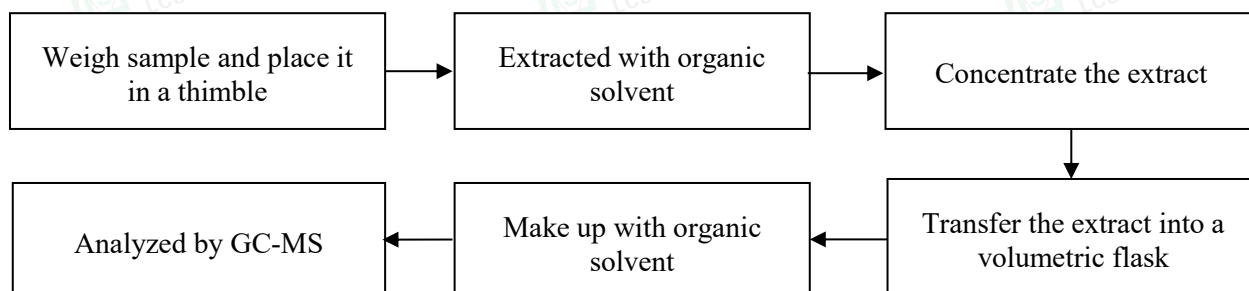




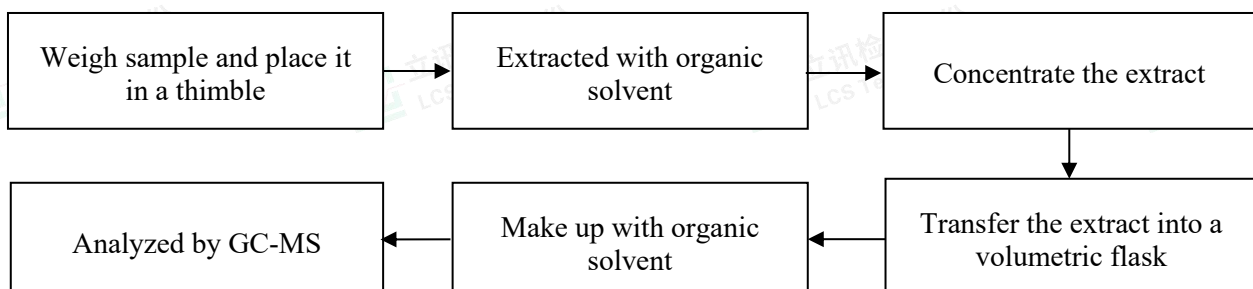
## 2) IEC 62321-7-1:2015



## 4. Polybrominated Biphenyls(PBBs) &amp; Polybrominated Diphenyl Ethers(PBDEs) : IEC 62321-6:2015



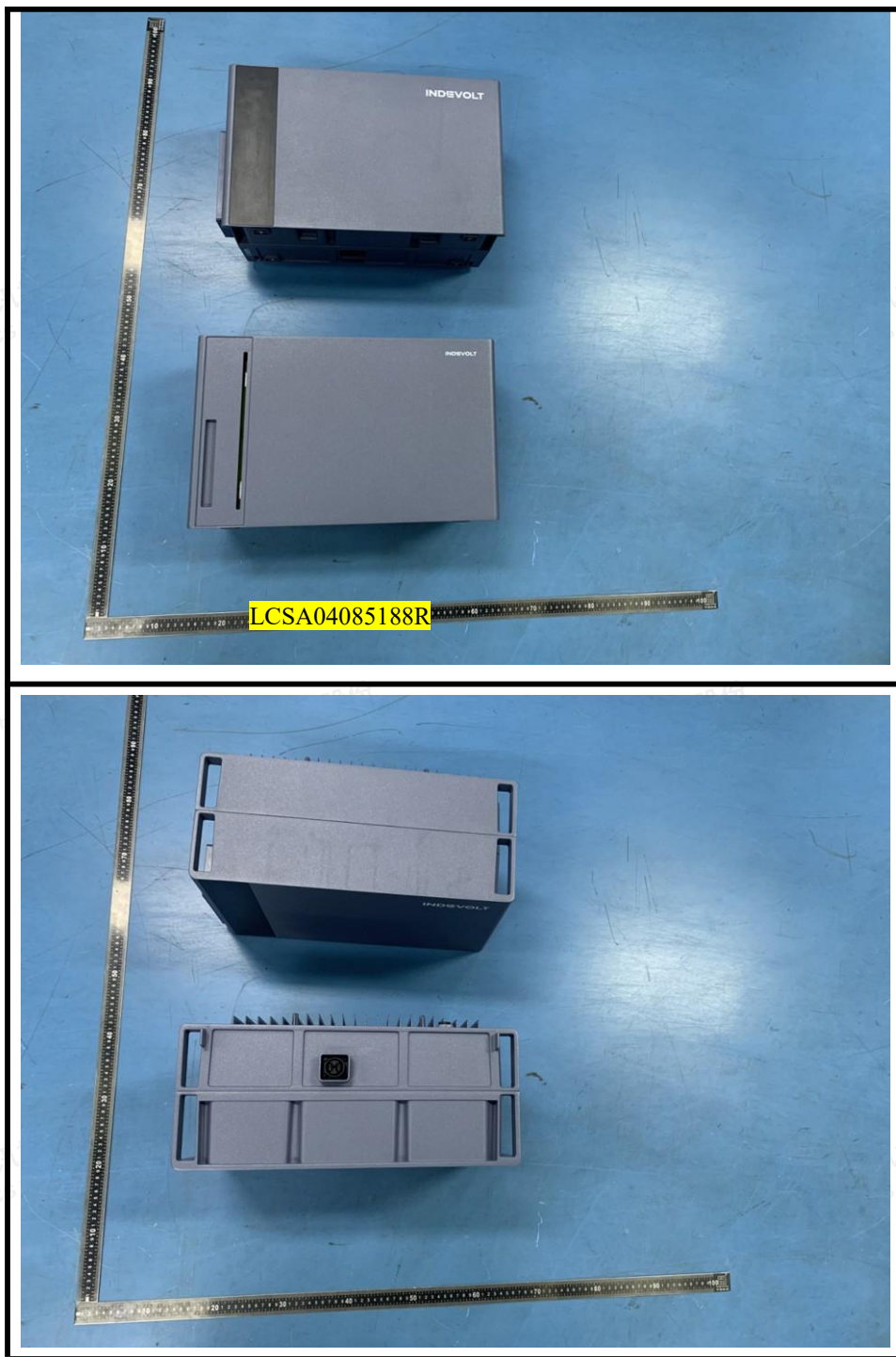
## 5. Phthalates(DBP, BBP, DEHP &amp; DIBP) : IEC 62321-8:2017







## The photo(s) of the sample



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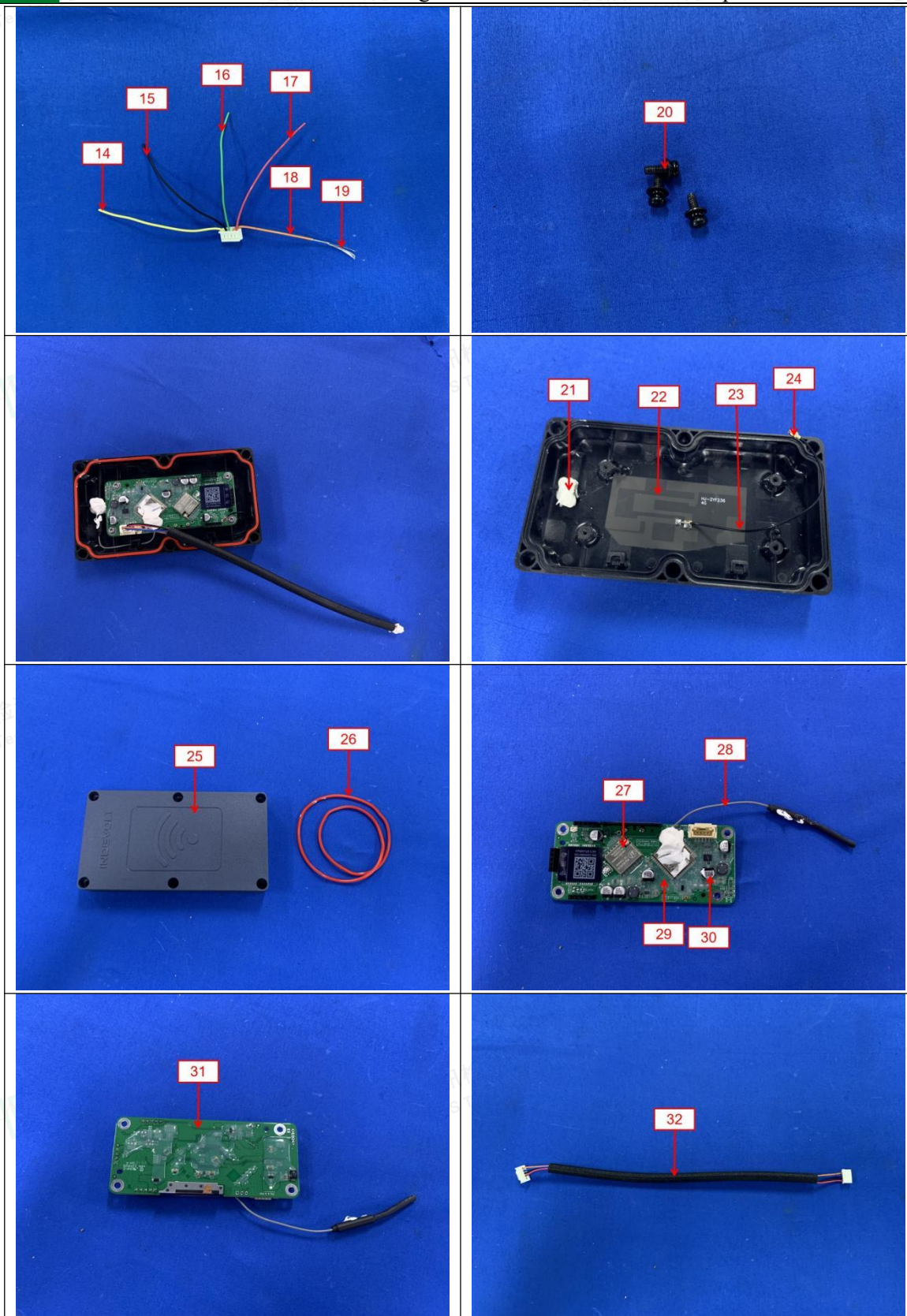




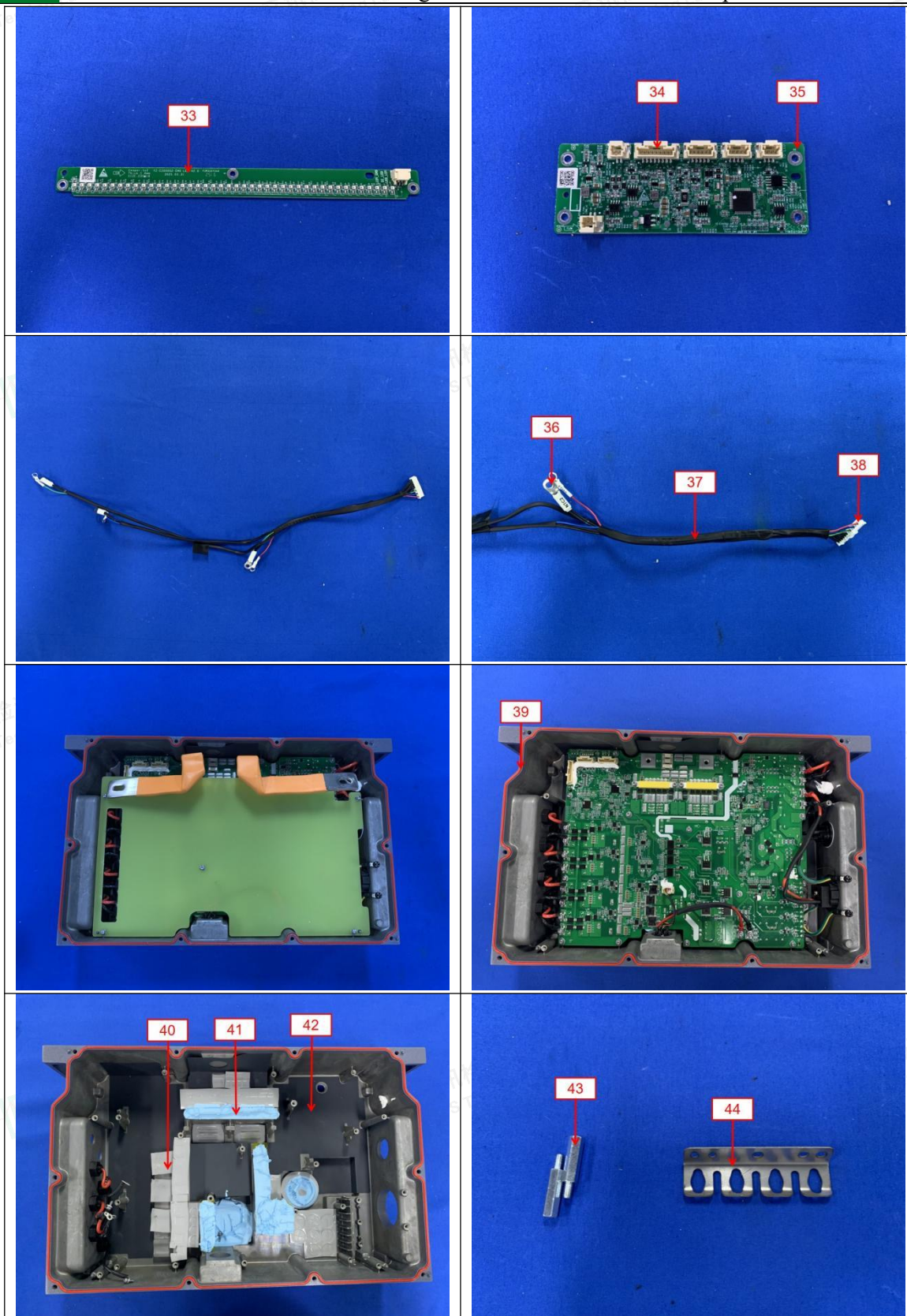
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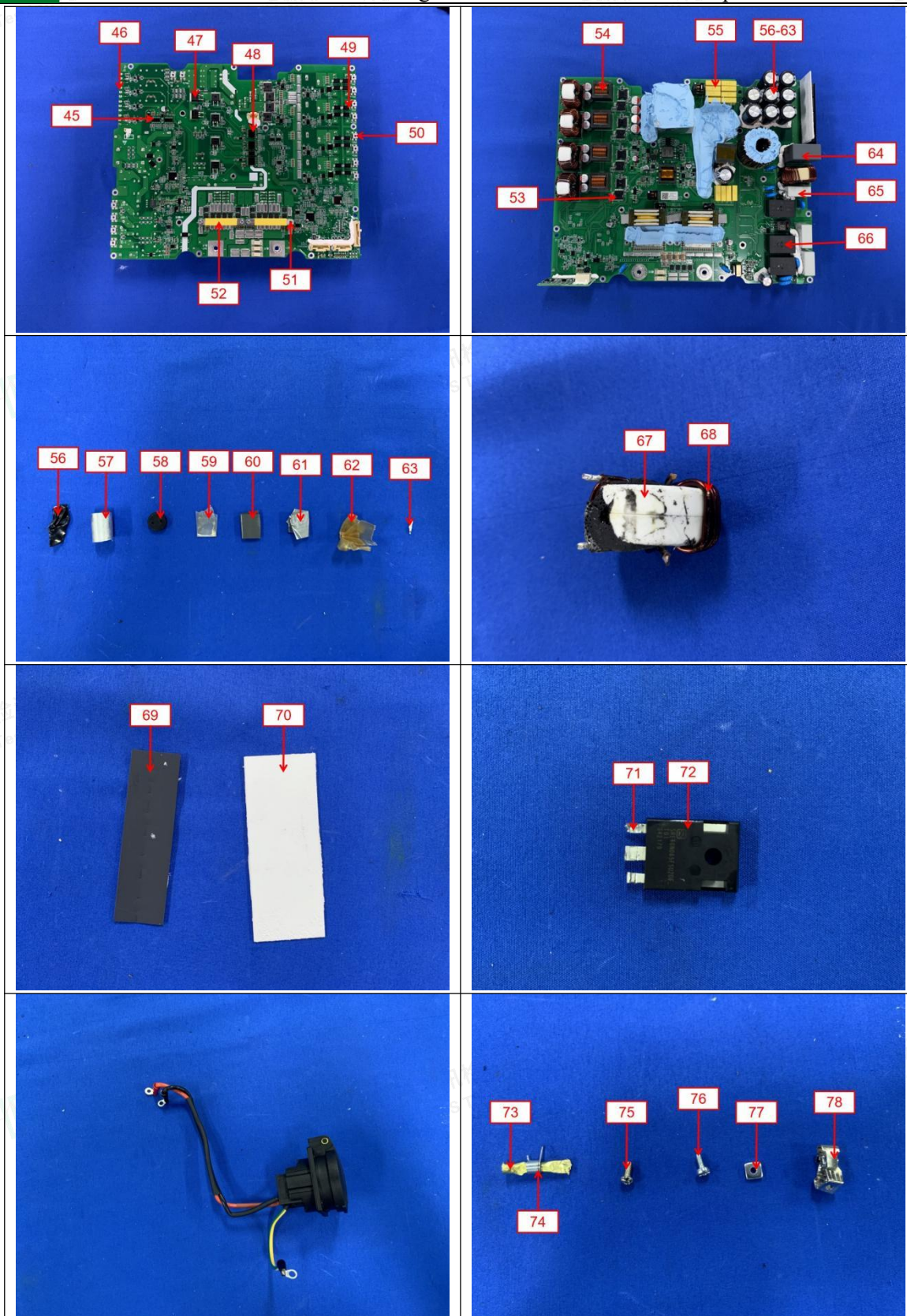


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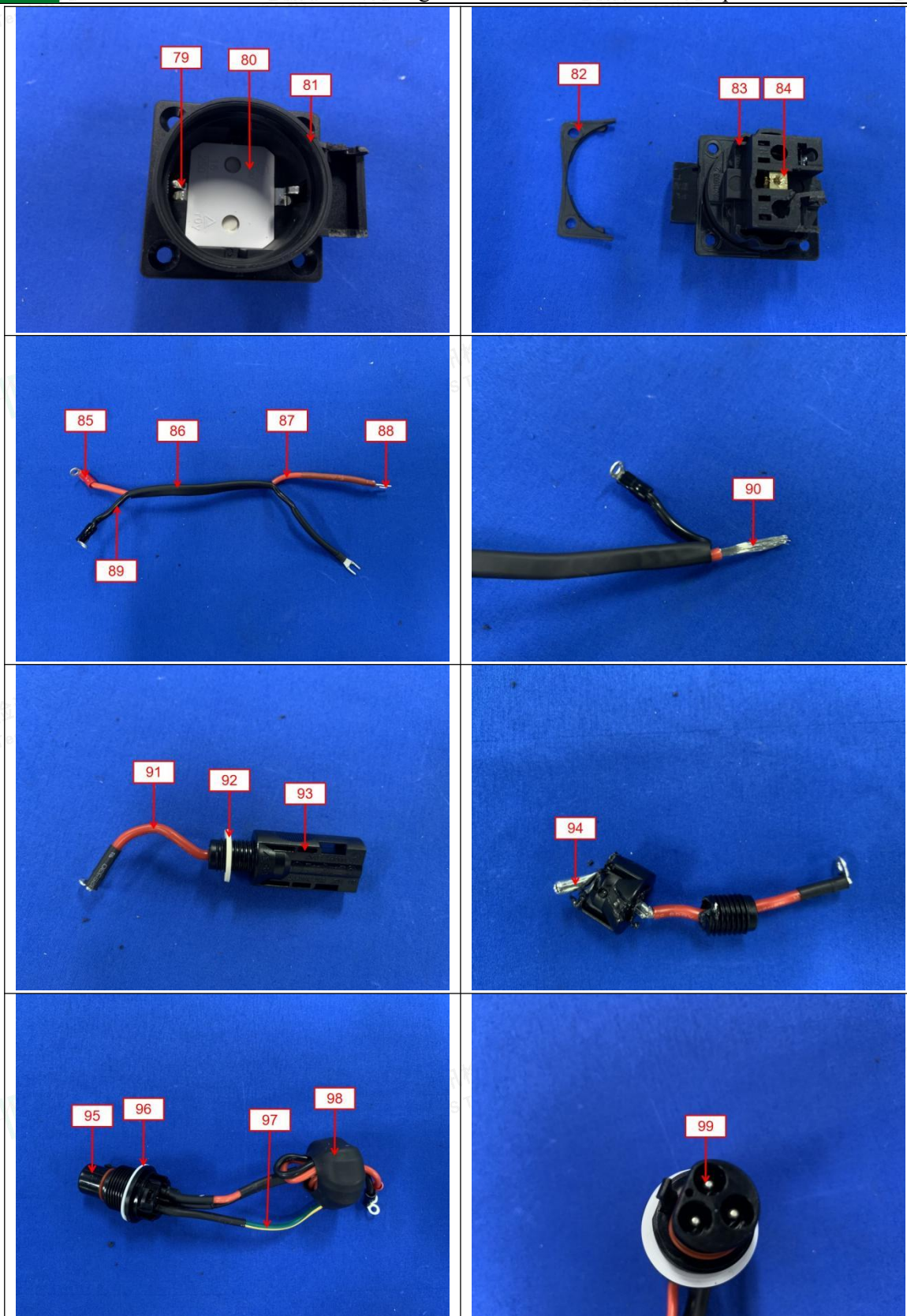


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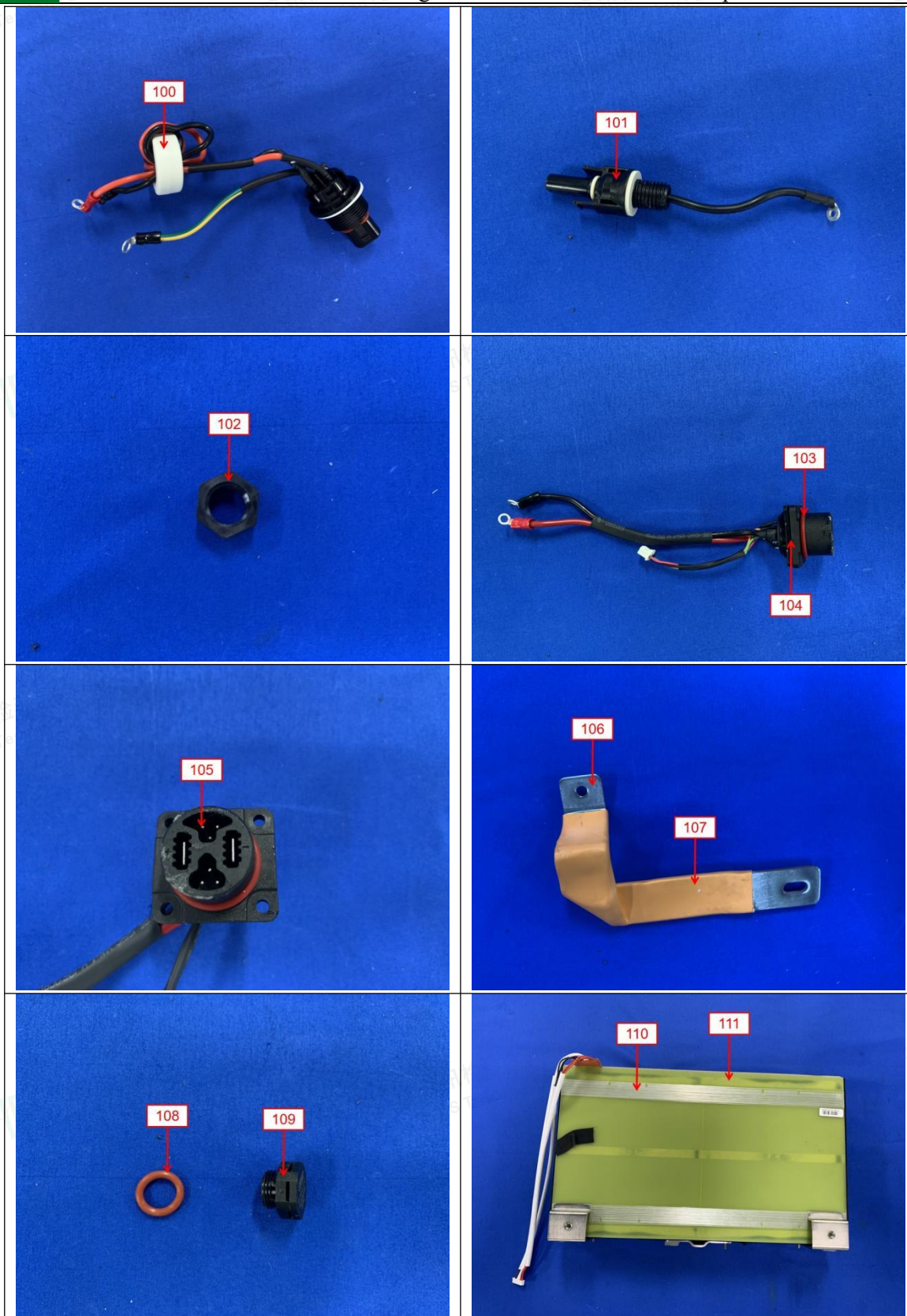




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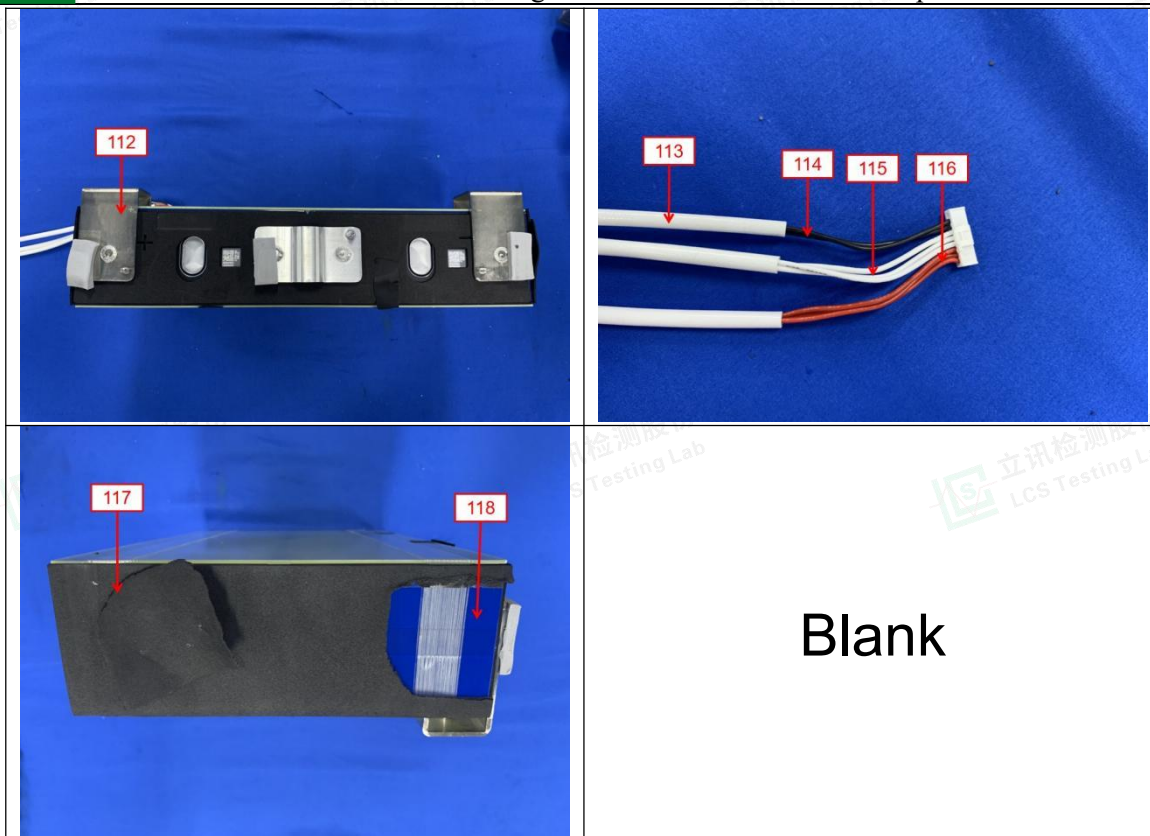


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