



# Test Report

**Applicant** : Sharkoon Technologies GmbH  
**Address** : Grüninger Weg 48, 35415 Pohlheim, Germany

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

**Sample Name(s)** : Gaming Keyboard  
**Trade Mark** : Sharkoon  
**Part No.** : SGK50 S3  
**Sample Received Date** : September 26, 2023  
**Testing Period** : September 26, 2023 ~ October 10, 2023  
**Date of Report** : October 11, 2023  
**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. | <b>PASS</b> |

Signed for and on behalf of LCS

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

Test method: Refer to IEC 62321-1:2013&IEC 62321-2:2021&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 <sup>▼</sup> | Br <sup>▼</sup> |       |   |
|            |  |                     |    |    |                 | PBBs            | PBDEs |   |
| 1          | Black plastic buttons with white coating | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 2          | White plastic buttons with black coating | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 3          | Black soft plastic pad with adhesive     | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 4          | White plastic shell                      | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 5          | Black/white label adhesive               | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 6          | White plastic bracket                    | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 7          | Yellow plastic rod                       | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 8          | Colorless transparent plastic shell      | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 9          | Silver metal spring                      | BL                  | BL | BL | X               | /               | /     | 2023-09-26                              |
| 10         | White plastic shell                      | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 11         | Copper colored metal sheet               | OL                  | BL | BL | BL              | /               | /     | 2023-09-26                              |
| 12         | Silver metal screw                       | X                   | BL | BL | BL              | /               | /     | 2023-09-26                              |
| 13         | Colorless semi transparent plastic frame | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 14         | White plastic fixing parts               | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 15         | Silver metal rod                         | BL                  | BL | BL | BL              | /               | /     | 2023-09-26                              |
| 16         | White soft plastic pad                   | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 17         | White soft plastic pad                   | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 18         | Black body (transistor)                  | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 19         | Silver crystal oscillator                | BL                  | BL | BL | BL              | /               | /     | 2023-09-26                              |
| 20         | Brown body (SMD capacitor)               | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 21         | Black body (SMD resistor)                | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 22         | Black body (U3)                          | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 23         | White body (LED)                         | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 24         | Silver metal pins                        | BL                  | BL | BL | BL              | /               | /     | 2023-09-26                              |



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| Sample No. | Sample Description                   | Screening Result(s) |    |    |                 |                 |       | Date of sample submission/ Resubmission |
|------------|--------------------------------------|---------------------|----|----|-----------------|-----------------|-------|---|
|            |                                      | Cd                  | Pb | Hg | Cr <sup>v</sup> | Br <sup>v</sup> |       |   |
|            |                                      |                     |    |    |                 | PBBs            | PBDEs |   |
| 25         | Black plastic shell                  | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 26         | Brown body (ec1)                     | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 27         | Grey white body (SMD capacitor)      | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 28         | Yellow body (electrolytic capacitor) | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 29         | Black body (D1)                      | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 30         | Soldering tin                        | BL                  | OL | BL | BL              | /               | /     | 2023-09-26                              |
| 31         | Silver metal port housing            | BL                  | BL | BL | X               | /               | /     | 2023-09-26                              |
| 32         | Gold metal pin                       | BL                  | BL | BL | BL              | /               | /     | 2023-09-26                              |
| 33         | Black plastic sheet                  | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 34         | Black PCB board                      | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 35         | Black cotton thread woven mesh       | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 36         | Black soft plastic plug housing      | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 37         | Gold metal port housing (USB)        | BL                  | BL | BL | BL              | /               | /     | 2023-09-26                              |
| 38         | White plastic wire cover (outer)     | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 39         | White plastic sheet                  | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 40         | Silver metal pin                     | BL                  | X  | BL | BL              | /               | /     | 2023-09-26                              |
| 41         | Silver metal shell                   | OL                  | BL | BL | BL              | /               | /     | 2023-09-26                              |
| 42         | Silver metal wire core               | BL                  | BL | BL | BL              | /               | /     | 2023-09-26                              |
| 43         | White paper                          | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 44         | Silver aluminum foil                 | BL                  | BL | BL | BL              | /               | /     | 2023-09-26                              |
| 45         | Red plastic wire cover               | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 46         | Green plastic wire cover             | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 47         | White plastic wire cover             | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 48         | Copper colored metal wire core       | BL                  | BL | BL | BL              | /               | /     | 2023-09-26                              |
| 49         | Red plastic wire cover               | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 50         | Black soft plastic plug housing      | BL                  | BL | BL | BL              | BL              | BL    | 2023-09-26                              |
| 51         | Gold metal plug housing              | OL                  | X  | BL | X               | /               | /     | 2023-09-26                              |
| 52         | Silver metal pins                    | BL                  | BL | BL | X               | /               | /     | 2023-09-26                              |



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| Sample No. | Sample Description                          | Screening Result(s) |    |    |     |      |       | Date of sample submission/ Resubmission |
|------------|---|---------------------|----|----|-----|------|-------|---|
|            |   | Cd                  | Pb | Hg | Cr▼ | Br▼  |       |   |
|            |   |                     |    |    |     | PBBs | PBDEs |   |
| 53         | Black plastic sheet                         | BL                  | BL | BL | BL  | BL   | BL    | 2023-09-26                              |
| 54         | Silver metal pin                            | X                   | BL | BL | BL  | /    | /     | 2023-09-26                              |
| 55         | Colorless semi transparent plastic fixtures | BL                  | BL | BL | BL  | BL   | BL    | 2023-09-26                              |
| 56         | Soldering tin                               | BL                  | BL | BL | BL  | /    | /     | 2023-09-26                              |
| 57         | Green PCB board                             | BL                  | BL | BL | BL  | X    | X     | 2023-09-26                              |
| 58         | Black body (IC)                             | BL                  | BL | BL | BL  | BL   | BL    | 2023-09-26                              |

Note:

- 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
  - 3σ= The reproducibility of analytical instruments
  - N/A= Not applicable
  - LOD= Detection limit
- The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
  - The maximum permissible limit is quoted from the document RoHS Directive 2011/65/EU with amendment (EU) 2015/863.
  - ▼=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 Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, DBP, BBP, DEHP & DIBP content

Test method:

Lead(Pb) & Cadmium(Cd) Content:

Refer to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES) or atomic absorption spectrometer (AAS).

Mercury(Hg) Content:

Refer to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES).

Hexavalent Chromium(Cr(VI)) Content:

Refer to IEC 62321-7-1:2015 or IEC 62321-7-2:2017, analysis was performed by UV-visible spectrophotometer (UV-Vis).

PBBs & PBDEs Content:

Refer to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatography-mass spectrometer (GC-MS).

Phthalates(DBP, BBP, DEHP & 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) Lead(Pb) & Cadmium(Cd)

| Tested Item      | MDL (mg/kg) | Test Result(s) (mg/kg) |      |      | Limit (mg/kg) |
|------------------|-------------|------------------------|------|------|---------------|
|                  |             | (30)                   | (40) | (51) |               |
| Lead(Pb) Content | 5           | 302                    | 202  | 26   | 1000          |

| Tested Item         | MDL (mg/kg) | Test Result(s) (mg/kg) |      |      |      | Limit (mg/kg) |
|---------------------|-------------|------------------------|------|------|------|---------------|
|                     |             | (11)                   | (12) | (41) | (51) |               |
| Cadmium(Cd) Content | 5           | N.D.                   | N.D. | N.D. | N.D. | 100           |

| Tested Item         | MDL (mg/kg) | Test Result(s) (mg/kg) | Limit (mg/kg) |
|---------------------|-------------|------------------------|---------------|
|                     |             | (54)                   |               |
| Cadmium(Cd) Content | 5           | N.D.                   | 100           |

### 2) Hexavalent Chromium(Cr(VI))(for coating on metal)

| Tested Item                          | MDL ( $\mu\text{g}/\text{cm}^2$ ) | Test Result(s) ( $\mu\text{g}/\text{cm}^2$ ) |      | Limit ( $\mu\text{g}/\text{cm}^2$ ) |
|--------------------------------------|-----------------------------------|--|------|-------------------------------------|
|                                      |                                   | (9)  | (31) |                                     |
| Hexavalent Chromium(Cr(VI)) Content★ | 0.10 (LOQ)                        | N.D.   | N.D. | 1000                                |



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| Tested Item                          | MDL<br>( $\mu\text{g}/\text{cm}^2$ ) | Test Result(s)<br>( $\mu\text{g}/\text{cm}^2$ ) |      | Limit<br>( $\mu\text{g}/\text{cm}^2$ ) |
|--------------------------------------|--------------------------------------|---|------|--|
|                                      |                                      | (51)  | (52) |  |
| Hexavalent Chromium(Cr(VI)) Content★ | 0.10<br>(LOQ)                        | N.D.  | N.D. | 1000                                   |

### 3) Phthalates(DBP, BBP, DEHP & DIBP)

| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) |      |      |      | Limit<br>(mg/kg) |
|---|----------------|---------------------------|------|------|------|------------------|
|   |                | 3                         | 5    | 16   | 17   |                  |
| 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) |
|---|----------------|---------------------------|------|------|------|------------------|
|   |                | 36                        | 38   | 45   | 46   |                  |
| 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) |
|---|----------------|---------------------------|------|------|------|------------------|
|   |                | 47                        | 49   | 50   | 55   |                  |
| 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             |



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| Tested Item(s)                            | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|---|----------------|---------------------------|------------------|
|   |                | 1+2+4+6+7+8               |                  |
| 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) |
|---|----------------|---------------------------|------------------|
|   |                | 10+13+14+18+20+21         |                  |
| 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) |
|---|----------------|---------------------------|------------------|
|   |                | 22+23+25+26+27+28         |                  |
| 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) |
|---|----------------|---------------------------|------------------|
|   |                | 29+33+34+35+39+43         |                  |
| 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 (mg/kg) | Test Result(s) (mg/kg) | Limit (mg/kg) |
|---|-------------|------------------------|---------------|
|   |             | 53+57+58               |               |
| 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          |



**4) Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs)**

| Tested Item(s)                                      | MDL<br>(mg/kg) | Test Result(s)<br>(mg/kg) | Limit<br>(mg/kg) |
|---|----------------|---------------------------|------------------|
|   |                | (57)                      |                  |
| <b>Polybrominated Biphenyls(PBBs) Content</b>       |                |                           |                  |
| Monobromobiphenyl                                   | 5              | N.D.                      | /                |
| Dibromobiphenyl                                     | 5              | N.D.                      | /                |
| Tribromobiphenyl                                    | 5              | N.D.                      | /                |
| Tetrabromobiphenyl                                  | 5              | N.D.                      | /                |
| Pentabromobiphenyl                                  | 5              | N.D.                      | /                |
| Hexabromobiphenyl                                   | 5              | N.D.                      | /                |
| Heptabromobiphenyl                                  | 5              | N.D.                      | /                |
| Octabromobiphenyl                                   | 5              | N.D.                      | /                |
| Nonabromodiphenyl                                   | 5              | N.D.                      | /                |
| Decabromodiphenyl                                   | 5              | N.D.                      | /                |
| Total content                                       | /              | N.D.                      | 1000             |
| <b>Polybrominated Diphenylethers(PBDEs) Content</b> |                |                           |                  |
| Monobromodiphenyl ether                             | 5              | N.D.                      | /                |
| Dibromodiphenyl ether                               | 5              | N.D.                      | /                |
| Tribromodiphenyl ether                              | 5              | N.D.                      | /                |
| Tetrabromodiphenyl ether                            | 5              | N.D.                      | /                |
| Pentabromodiphenyl ether                            | 5              | N.D.                      | /                |
| Hexabromodiphenyl ether                             | 5              | N.D.                      | /                |
| Heptabromodiphenyl ether                            | 5              | N.D.                      | /                |
| Octabromodiphenyl ether                             | 5              | N.D.                      | /                |
| Nonabromodiphenyl ether                             | 5              | N.D.                      | /                |
| Decabromodiphenyl ether                             | 5              | N.D.                      | /                |
| Total content                                       | /              | N.D.                      | 1000             |



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## Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL or LOQ)
- mg= milligram
- LOQ = Limit Of Quantification, The LOQ of Hexavalent chromium is  $0.10 \mu\text{g}/\text{cm}^2$
- ★ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than  $0.13 \mu\text{g}/\text{cm}^2$ . The sample coating is considered to contain Cr(VI).  
b. The sample is negative for Cr(VI) if Cr(VI) is N.D.(concentration less than  $0.10 \mu\text{g}/\text{cm}^2$ ). The sample coating is considered a non- Cr(VI) based coating.  
c. The result between  $0.10 \mu\text{g}/\text{cm}^2$  and  $0.13 \mu\text{g}/\text{cm}^2$  is considered to be inconclusive, unavoidable coating variations may influence the determination.
- Information on storage conditions and production date of the tested samples is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.
- According to customer's requirement, only the appointed materials have been tested.



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China

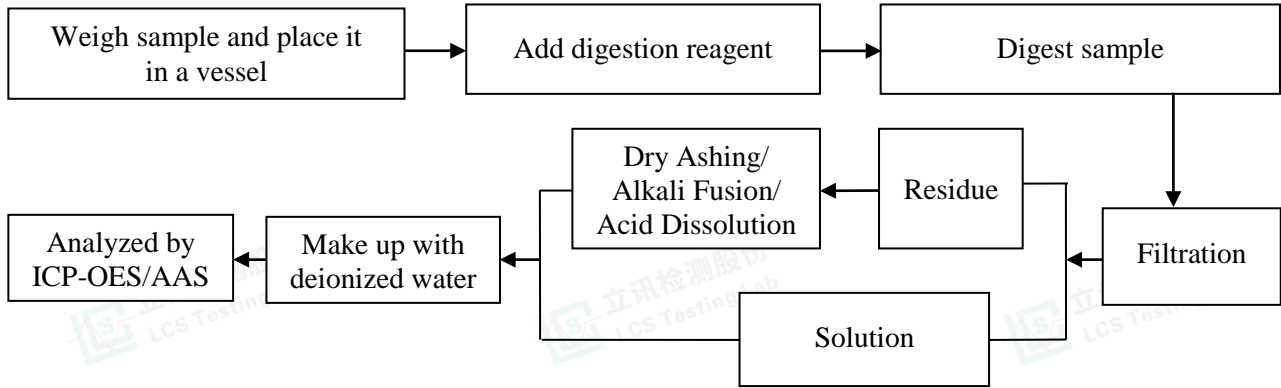
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

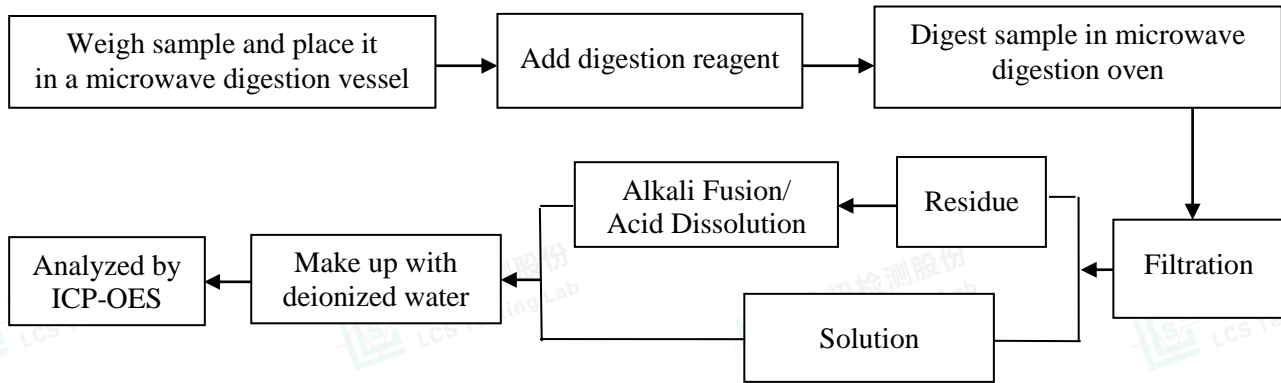


### Test Process

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

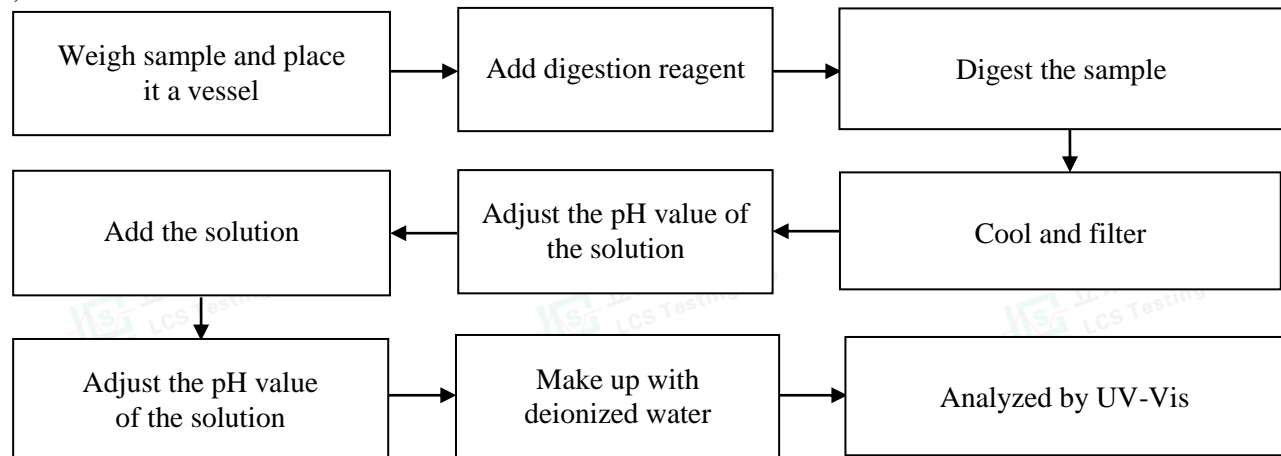


#### 2. Mercury(Hg): IEC 62321-4:2013+AMD1:2017 CSV



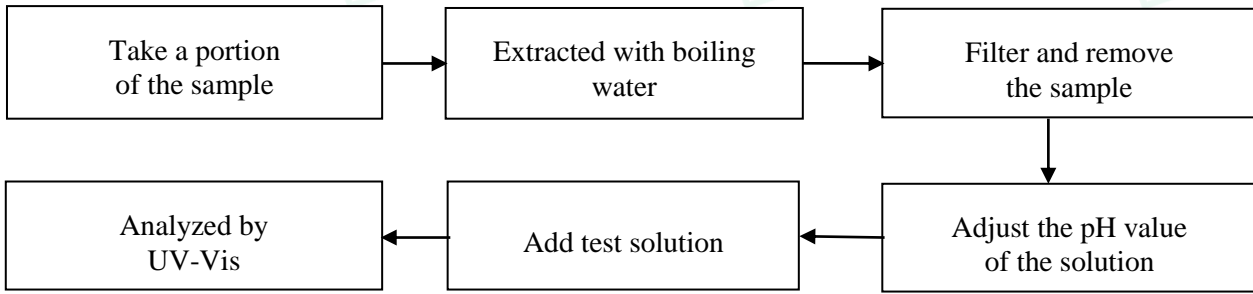
#### 3. Hexavalent Chromium(Cr(VI))

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

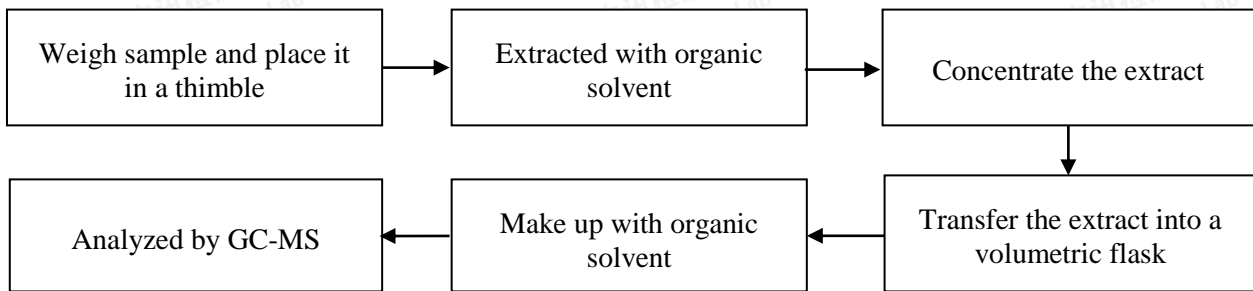




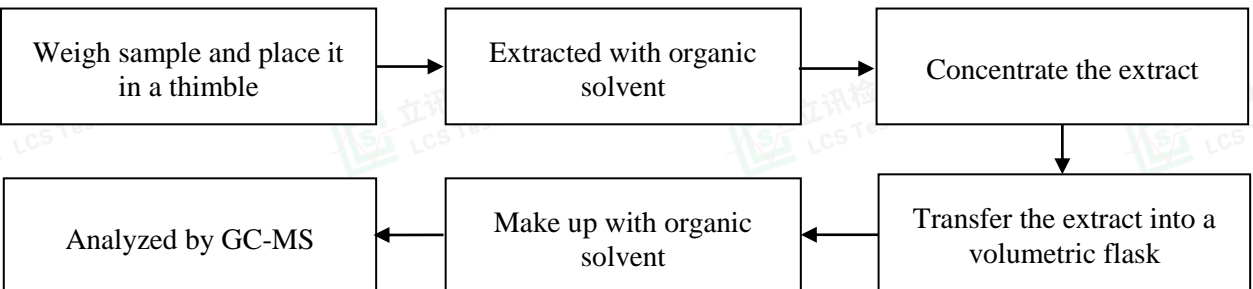
2) IEC 62321-7-1:2015



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

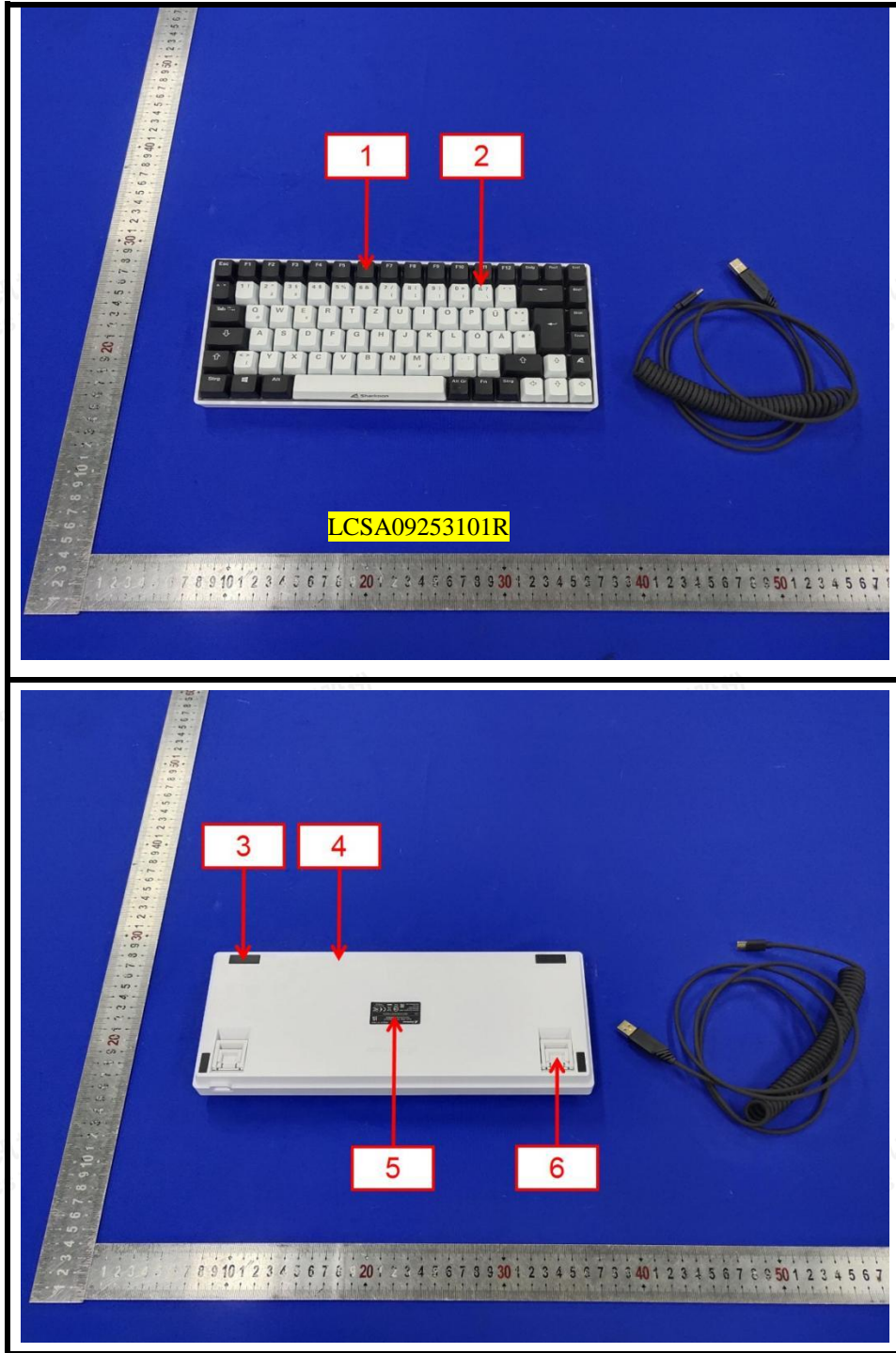


5. Phthalates(DBP, BBP, DEHP & DIBP) : IEC 62321-8:2017





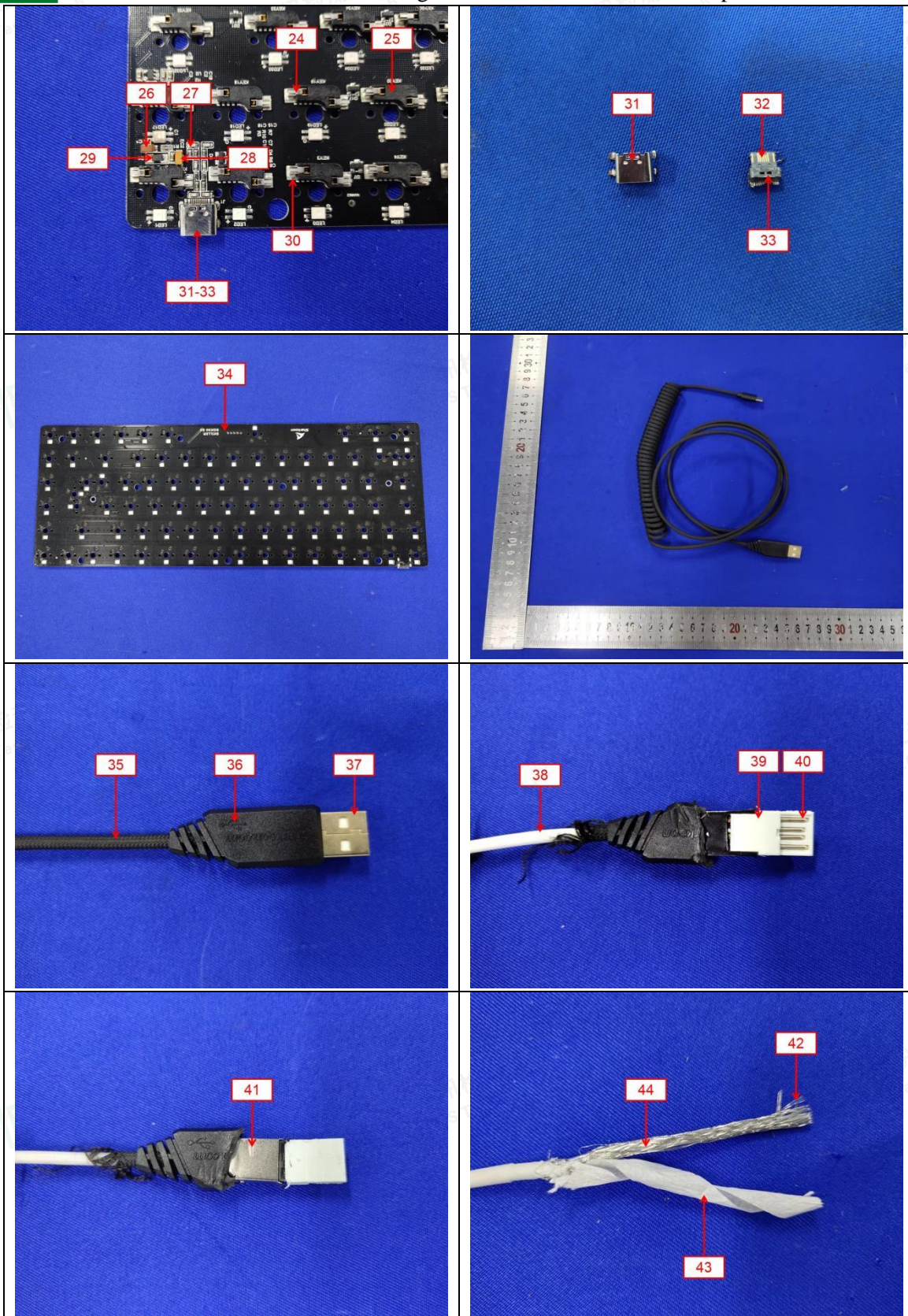
### The photo(s) of the sample



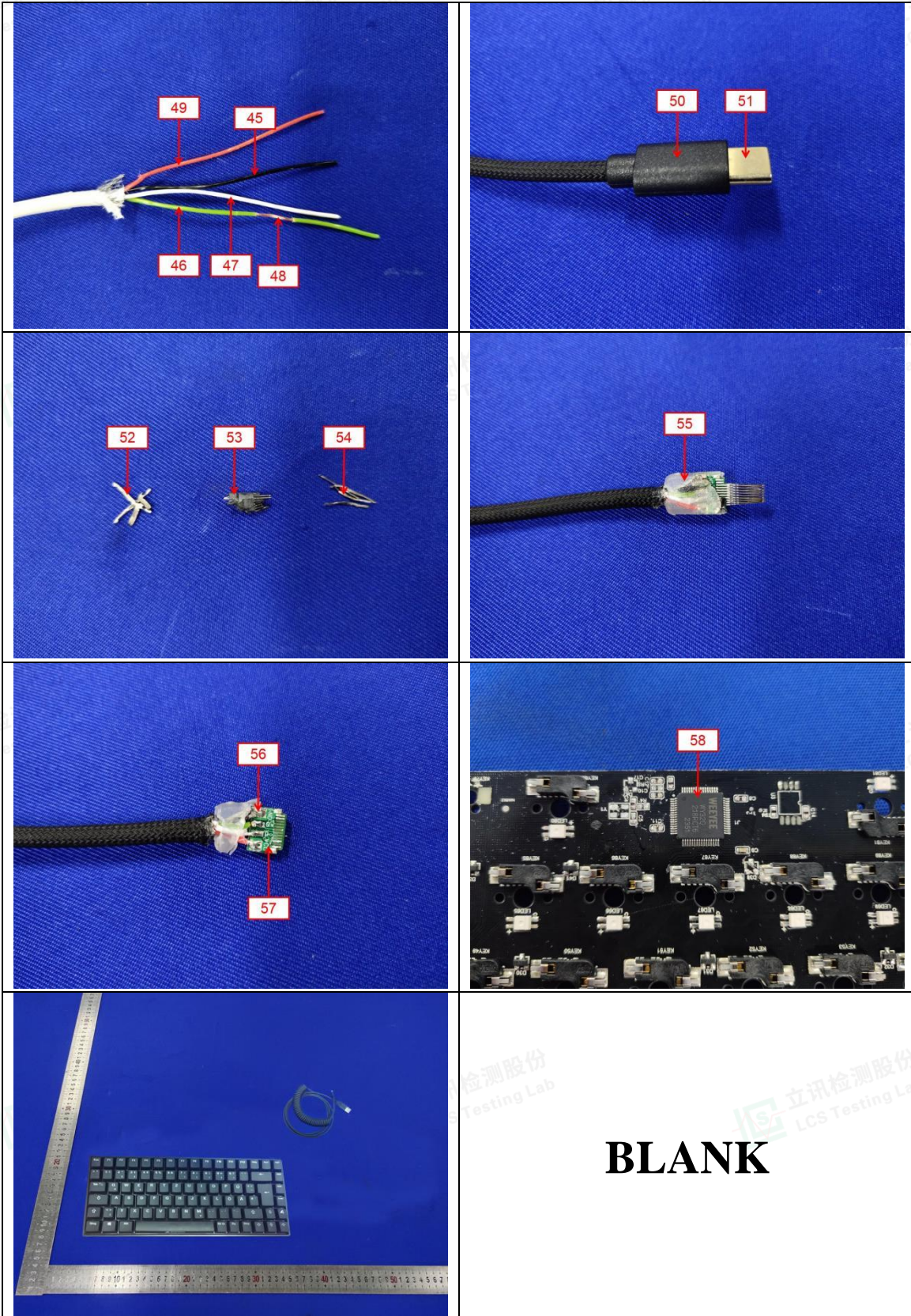














**Statement:**

1. The test report is invalid without the signature of the approver and the special seal for the company's report;
2. The company name, address and sample information shown on the report were provided by the applicant who should be responsible for the authenticity which are not verified by LCS;
3. The test results in this report are only responsible for the tested samples;
4. Without written approval of LCS, this report can't be reproduced except in full;
5. In case of any discrepancy between the corresponding Chinese and English contents in the test report, the Chinese version shall prevail.

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

