



Verification Report

Applicant : Mixtile Limited
Address : Haisong Building Tower B Suite 1101, Tairan 9th Road, Futian District, Shenzhen

Report on the submitted samples said to be:

Sample Name(s) : Mixtile Blade 3
Trade Mark : N/A
Part No. : SBC-BLADE3-16128, SBC-BLADE3-0432, SBC-BLADE3-0864, SBC-BLADE3-32256
Sample Received Date : October 14, 2022
Testing Period : October 14, 2022 ~ October 19, 2022
Date of Report : October 19, 2022
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 |
|---|------------|
| The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 No. 3032 and its amendments. | PASS |

Signed for and on behalf of LCS

Young/Laboratory Manager



**Results:****A. Testing for GB RoHS Regulations 2012 No. 3032 and its revised edition**

Test method: With reference to BS EN 62321-1:2013&BS EN 62321-2:2014&BS EN 62321-3-1:2014,
Screening by X-ray Fluorescence Spectroscopy (XRF)

| Sample No. | Sample Description | Results | | | | | | Date of sample submission/ Resubmission |
|------------|----------------------------|---------|----|----|-----------------|-----------------|-------|---|
| | | Cd | Pb | Hg | Cr ^v | Br ^v | | |
| | | | | | | PBBs | PBDEs | |
| 1 | Silver colored metal screw | BL | BL | BL | BL | / | / | 2022-10-14 |
| 2 | Silver metal block | BL | BL | BL | BL | / | / | 2022-10-14 |
| 3 | Grey gel | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 4 | Silver metal sheet | BL | BL | BL | BL | / | / | 2022-10-14 |
| 5 | Black plastic sheet | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 6 | Silver metal needle | BL | BL | BL | BL | / | / | 2022-10-14 |
| 7 | Silver metal sheet | BL | BL | BL | BL | / | / | 2022-10-14 |
| 8 | Black plastic sheet | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 9 | Silver metal needle | BL | BL | BL | BL | / | / | 2022-10-14 |
| 10 | Silver metal sheet | BL | BL | BL | BL | / | / | 2022-10-14 |
| 11 | Black plastic sheet | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 12 | Silver metal needle | BL | BL | BL | BL | / | / | 2022-10-14 |
| 13 | Yellow diode | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 14 | Green diode | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 15 | Silver metal pin | BL | BL | BL | BL | / | / | 2022-10-14 |
| 16 | White plastic sheet | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 17 | Silver metal needle | BL | BL | BL | BL | / | / | 2022-10-14 |
| 18 | Black IC | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 19 | Brown capacitor | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 20 | Black IC | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 21 | Grey capacitor | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 22 | Silver crystal oscillator | BL | BL | BL | BL | / | / | 2022-10-14 |
| 23 | Grey ceramics | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 24 | Red wire | BL | BL | BL | BL | / | / | 2022-10-14 |
| 25 | Black ceramics | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 26 | Red wire | BL | BL | BL | BL | / | / | 2022-10-14 |
| 27 | Black IC | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 28 | Silver metal nut | BL | BL | BL | BL | / | / | 2022-10-14 |
| 29 | Black plastic sheet | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 30 | Silver metal needle | BL | BL | BL | BL | / | / | 2022-10-14 |



Shenzhen LCS Compliance Testing Laboratory Ltd.

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| Sample No. | Sample Description | Results | | | | | | Date of sample submission/ Resubmission |
|------------|---------------------|---------|----|----|-----------------|-----------------|-------|---|
| | | Cd | Pb | Hg | Cr [▼] | Br [▼] | | |
| | | | | | | PBBs | PBDEs | |
| 31 | Black plastic sheet | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 32 | Silver metal needle | BL | BL | BL | BL | / | / | 2022-10-14 |
| 33 | Silver metal sheet | BL | BL | BL | BL | / | / | 2022-10-14 |
| 34 | Black plastic sheet | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 35 | Silver metal needle | BL | BL | BL | BL | / | / | 2022-10-14 |
| 36 | Silver metal sheet | BL | BL | BL | BL | / | / | 2022-10-14 |
| 37 | Black diode | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 38 | White plastic sheet | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 39 | Black plastic sheet | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 40 | Silver metal needle | BL | BL | BL | BL | / | / | 2022-10-14 |
| 41 | Black triode | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 42 | Black IC | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 43 | Black IC | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 44 | Black IC | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 45 | PCB board | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 46 | Black IC | BL | BL | BL | BL | BL | BL | 2022-10-14 |
| 47 | Tin solder | BL | BL | BL | BL | / | / | 2022-10-14 |

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 BS EN 62321-3-1:2014 (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



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- 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 Regulations 2012 No.3032 and its revised edition.
- 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) (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. GB RoHS Regulations 2012 No.3032 and its revised edition 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:

With reference to BS EN 62321-5:2014, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES) & Atomic absorption spectrometer (AAS).

Mercury(Hg) Content:

With reference to BS EN 62321-4:2014+A1:2017, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES).

Hexavalent Chromium(Cr(VI)) Content:

With reference to BS EN 62321-7-1:2015 or BS EN 62321-7-2:2017, analysis was performed by UV-visible spectrophotometer (UV-Vis).

PBBs & PBDEs Content:

With reference to BS EN 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

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

With reference to BS EN 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

1) The test results of Phthalates(DBP, BBP, DEHP & DIBP)

| Tested Items | MDL (mg/kg) | Results (mg/kg) | Limit (mg/kg) |
|---|-------------|-----------------|---------------|
| | | 3+5+8+11+13+14 | |
| Dibutyl Phthalate(DBP) Content | 600 | N.D. | 1000 |
| Butylbenzyl Phthalate(BBP) Content | 600 | N.D. | 1000 |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 600 | N.D. | 1000 |
| Diisobutyl phthalate(DIBP) Content | 600 | N.D. | 1000 |

| Tested Items | MDL (mg/kg) | Results (mg/kg) | Limit (mg/kg) |
|---|-------------|-------------------|---------------|
| | | 16+18+19+20+21+23 | |
| Dibutyl Phthalate(DBP) Content | 600 | N.D. | 1000 |
| Butylbenzyl Phthalate(BBP) Content | 600 | N.D. | 1000 |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 600 | N.D. | 1000 |
| Diisobutyl phthalate(DIBP) Content | 600 | N.D. | 1000 |



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| Tested Items | MDL (mg/kg) | Results (mg/kg) | Limit (mg/kg) |
|---|-------------|-------------------|---------------|
| | | 25+27+29+31+34+37 | |
| Dibutyl Phthalate(DBP) Content | 600 | N.D. | 1000 |
| Butylbenzyl Phthalate(BBP) Content | 600 | N.D. | 1000 |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 600 | N.D. | 1000 |
| Diisobutyl phthalate(DIBP) Content | 600 | N.D. | 1000 |

| Tested Items | MDL (mg/kg) | Results (mg/kg) | Limit (mg/kg) |
|---|-------------|-------------------|---------------|
| | | 38+39+41+42+43+44 | |
| Dibutyl Phthalate(DBP) Content | 600 | N.D. | 1000 |
| Butylbenzyl Phthalate(BBP) Content | 600 | N.D. | 1000 |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 600 | N.D. | 1000 |
| Diisobutyl phthalate(DIBP) Content | 600 | N.D. | 1000 |

| Tested Items | MDL (mg/kg) | Results (mg/kg) | Limit (mg/kg) |
|---|-------------|-----------------|---------------|
| | | 45+46 | |
| Dibutyl Phthalate(DBP) Content | 600 | N.D. | 1000 |
| Butylbenzyl Phthalate(BBP) Content | 600 | N.D. | 1000 |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 600 | N.D. | 1000 |
| Diisobutyl phthalate(DIBP) Content | 600 | N.D. | 1000 |

Note:

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



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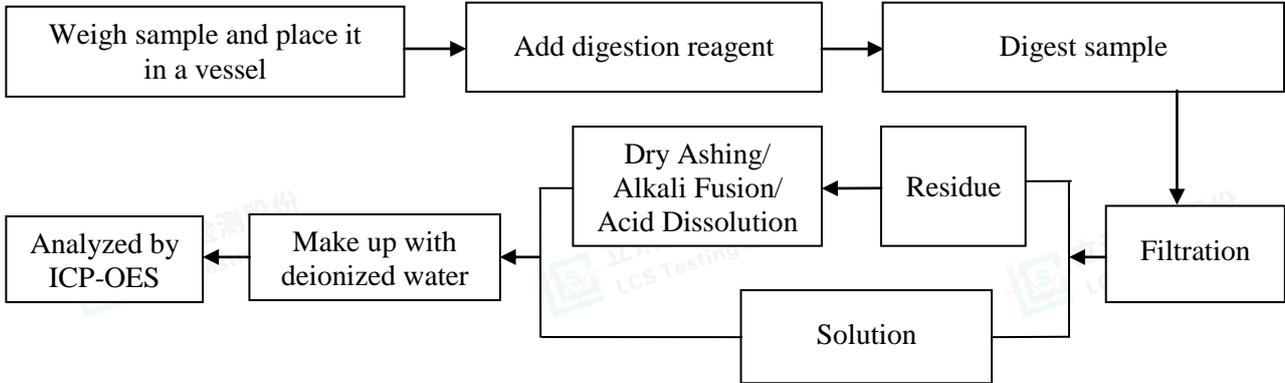
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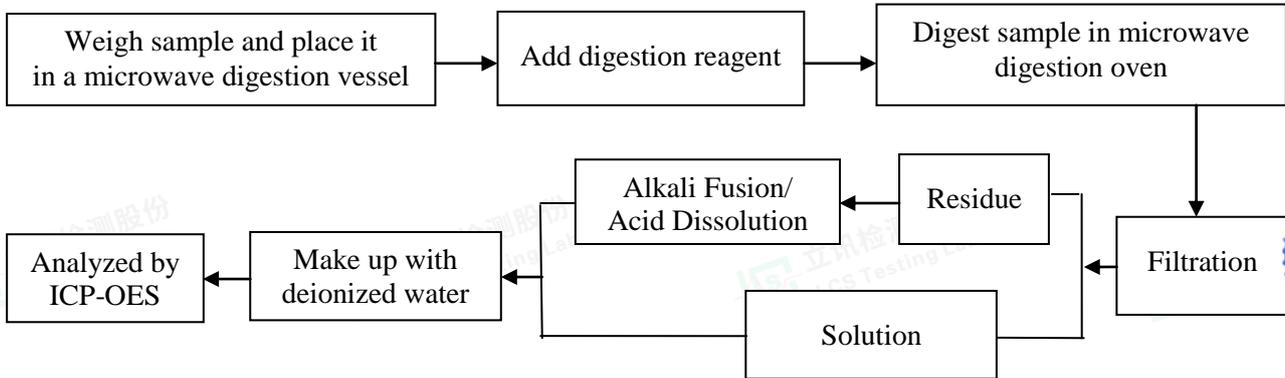


Test Process

1. Lead(Pb) & Cadmium(Cd): BS EN 62321-5:2014

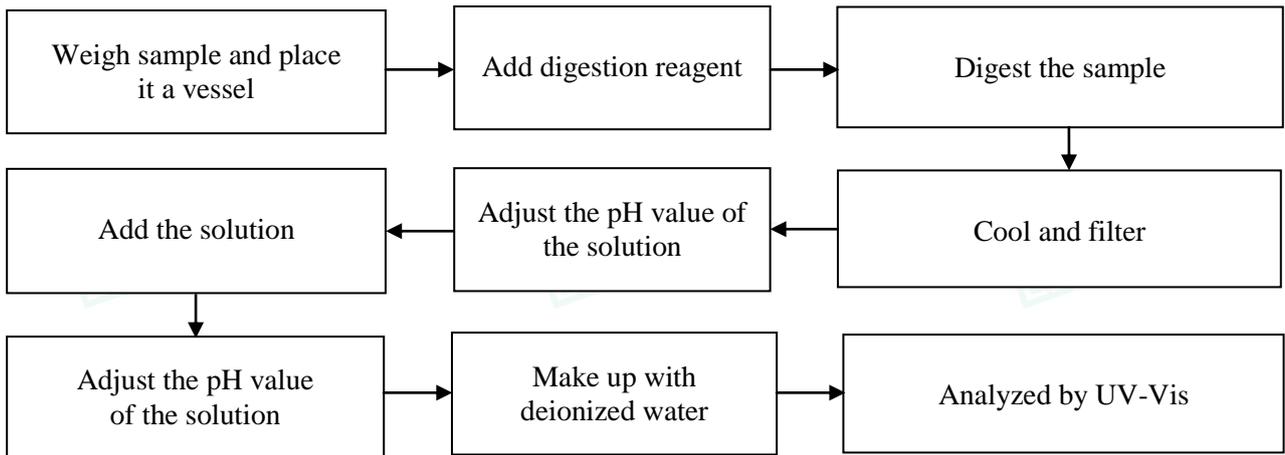


2. Mercury(Hg): BS EN 62321-4:2014+A1:2017



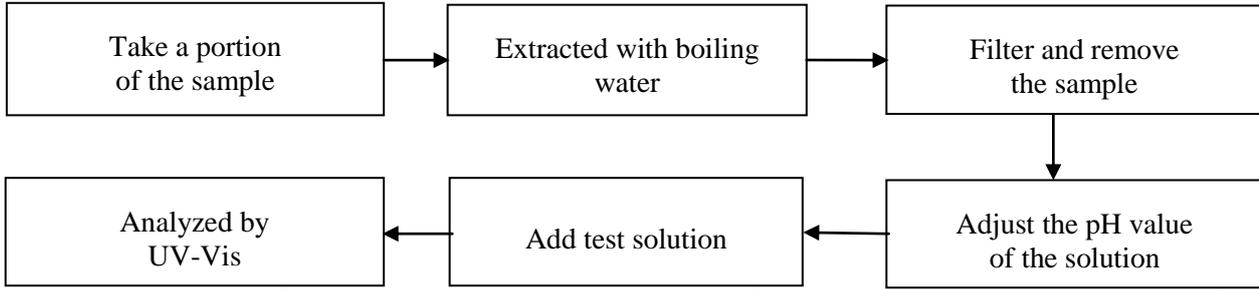
3. Hexavalent Chromium(Cr(VI))

1) BS EN 62321-7-2:2017

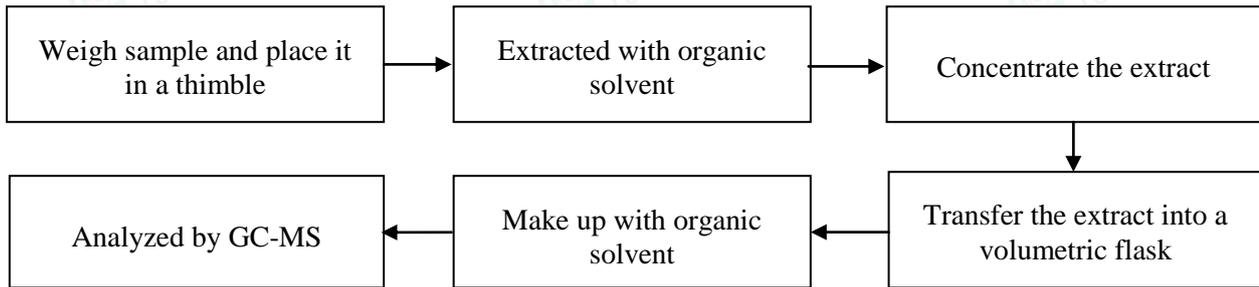




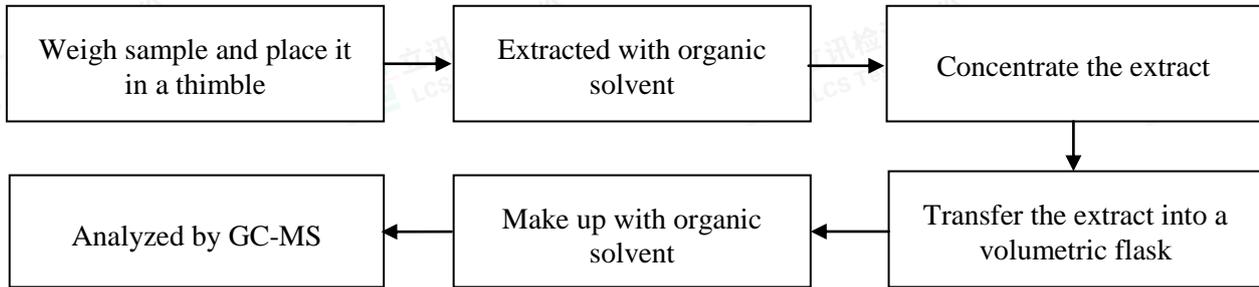
2) BS EN 62321-7-1:2015



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

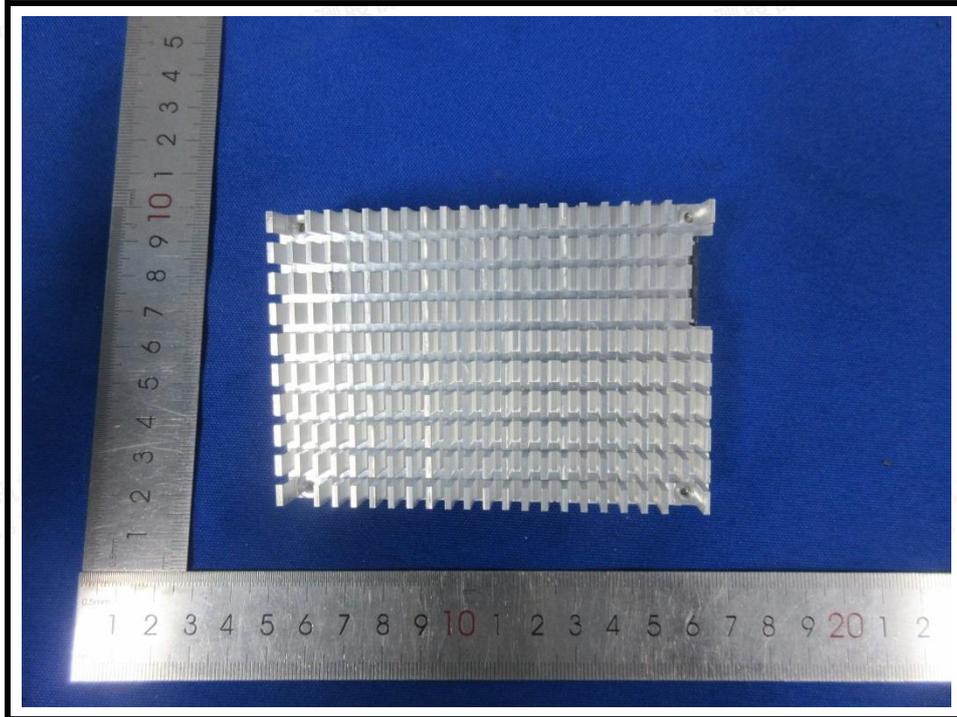
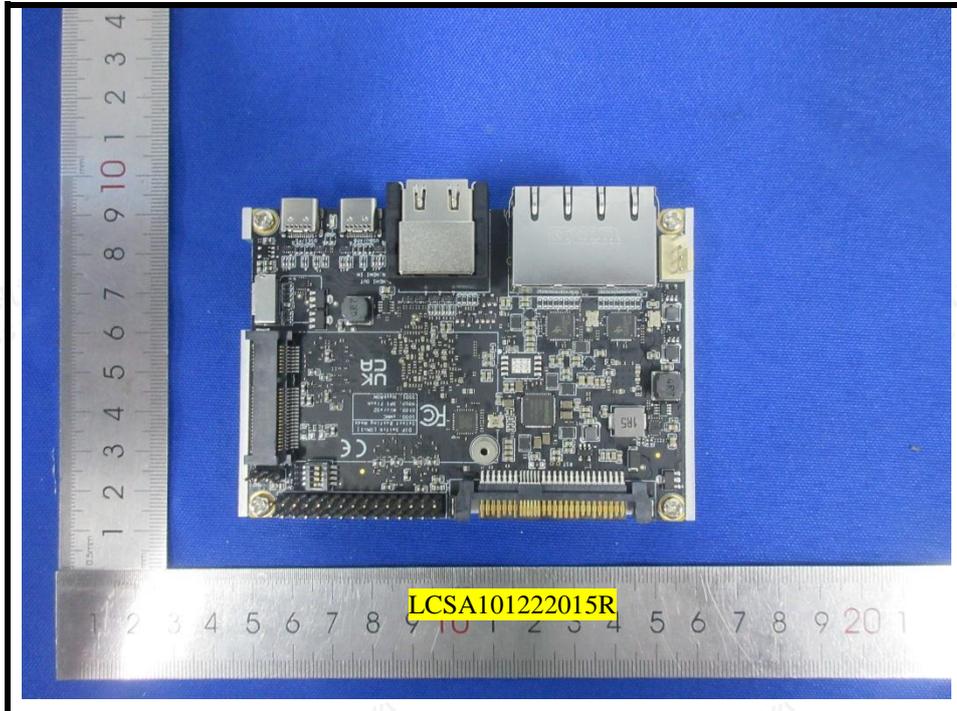


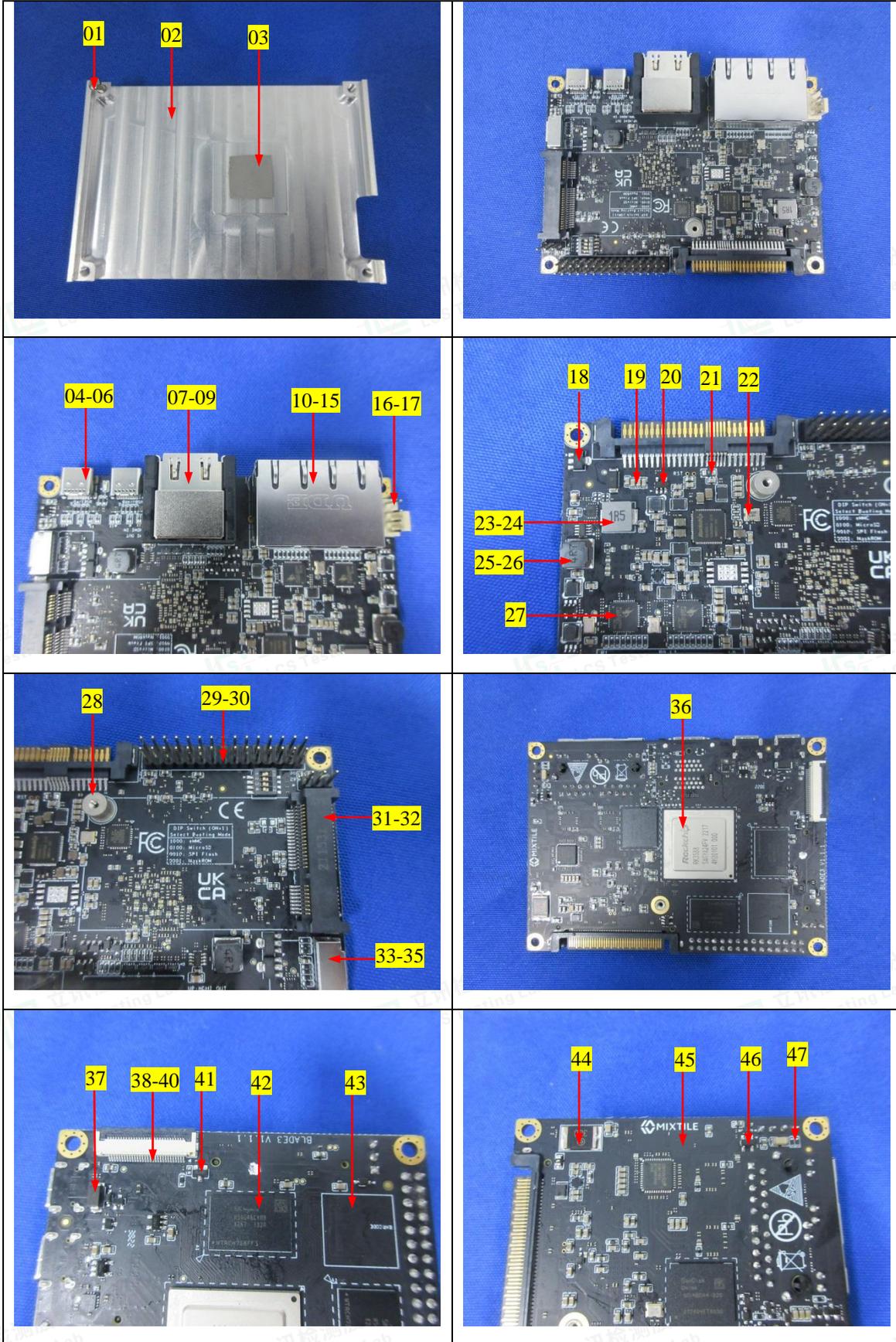
5. Phthalates(DBP, BBP, DEHP & DIBP) : BS EN 62321-8:2017





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 English version shall prevail.

*** End of Report ***

