Report No.: LCSA 11203254R

中国认可
国际互认
检测
TESTING
CNAS L4595

# TEST REPORT

| | | |
|---|---|---|
| **Applicant** | : | **SHENZHEN GMCELL TECHNOLOGY CO, .LTD** |
| **Address** | : | **Hualian Panorama International Building, 27 District, Bao'an, Shenzhen, China** |

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

| | | |
|---|---|---|
| **Sample Name(s)** | : | **Lithium Manganese Dioxide Button Cell** |
| **Trade Mark** | : | **GMCELL** |
| **Part No.** | : | **CR2032** |
| **Reference Part No.** | : | **CR2025, CR2016, CR2032SC, CR2027, CR1025, CR1210, CR1216, CR1220, CR1225, CR1130, CR1616, CR1620, CR1632, CR2330, CR2325, CR2320, CR2430, CR2450, CR2477, CR123A, CR2, CR_P2, 2CR5, CR297** |
| **Sample Received Date** | : | **December 06, 2023** |
| **Testing Period** | : | **December 06, 2023 ~ December 08, 2023** |
| **Date of Report** | : | **December 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, to determine Lead(Pb), Cadmium(Cd) and Mercury(Hg) Content in the submitted sample according to Article 6(1) of Regulation (EU) 2023/1542 and its Annex I.** | **PASS** |

Signed for and on behalf of LCS

LCS TESTING LABORATORY APPROVED

Terry Luo

**Tested part(s):**

(1) Battery

**Test method:** With reference to IEC 62321-5:2013 & IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES).

**Tested result(s):**

| Test Item(s) | MDL (%) | Test Result(s) (%) | Limit (%) |
|---|---|---|---|
| | | (1) | |
| Mercury(Hg) Content | 0.0005 | N.D. | 0.0005 |
| Cadmium(Cd) Content | 0.0005 | N.D. | 0.002#1 |
| Lead(Pb) Content | 0.0005 | 0.0011 | 0.01#2 |

Remark:

According to Regulation (EU) 2023/1542:

※1 = This Regulation does not apply to batteries that are incorporated into or that are specifically designed to be incorporated into:

(a) equipment connected with the protection of Member States' essential security interests, arms, munitions and war material, with the exclusion of products that are not intended for specifically military purposes; and

(b) equipment designed to be sent into space.

※2 = From 18 August 2025, all batteries shall be marked with the symbol for separate collection of batteries ('separate collection symbol')

Symbol for separate collection of batteries

The separate collection symbol shall cover at least 3 % of the area of the largest side of the battery up to a maximum size of 5 × 5 cm.

In the case of cylindrical battery cells, the separate collection symbol shall cover at least 1,5 % of the surface area of the battery and shall have a maximum size of 5 × 5 cm.

Where the size of the battery is such that the separate collection symbol would be smaller than 0,47 × 0,47 cm, the battery does not need to be marked with that symbol. Instead, a separate collection symbol measuring at least 1 × 1 cm shall be printed on the packaging.

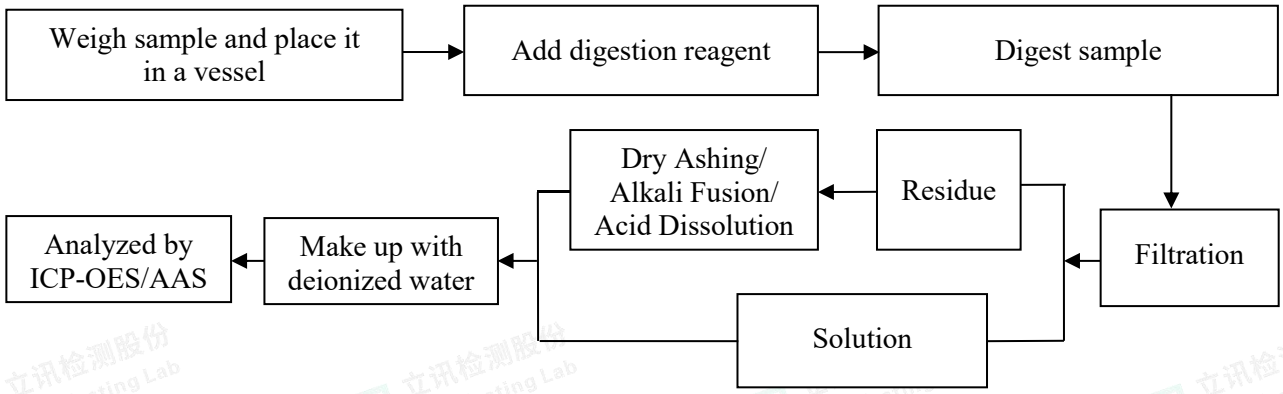
※3 = All batteries containing more than 0,002 % cadmium or more than 0,004 % lead, shall be marked with the chemical symbol for the metal concerned: Cd or Pb. And the relevant chemical symbol indicating the heavy metal content shall be printed beneath the separate collection symbol and shall cover an area of at least one-quarter the size of that symbol.

Note:

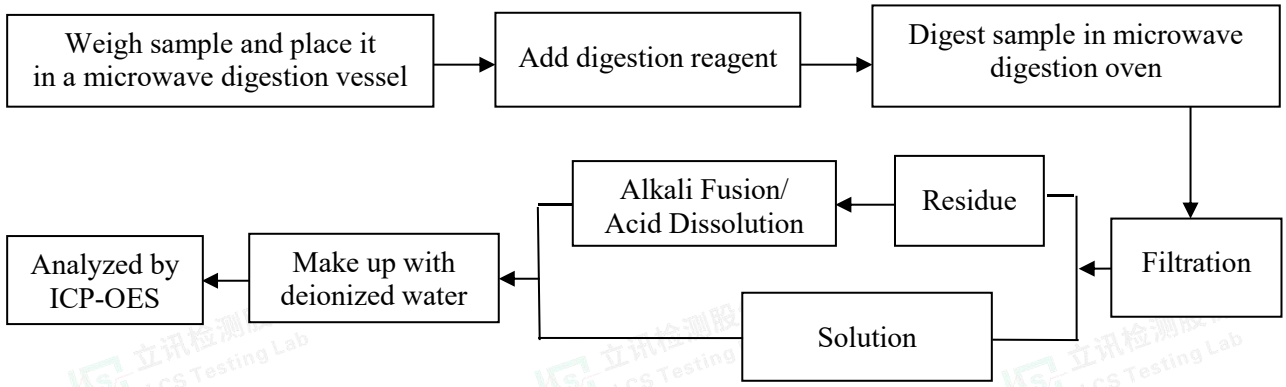
- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- "#1" signifies that this limit value applies only to portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles.
- "#2" signifies that, beginning on August 18, 2024, this threshold value will be enforced for portable batteries, except for zinc-air button cells which will come into effect on August 18, 2028, regardless of whether they are integrated into appliances.

## Test Process

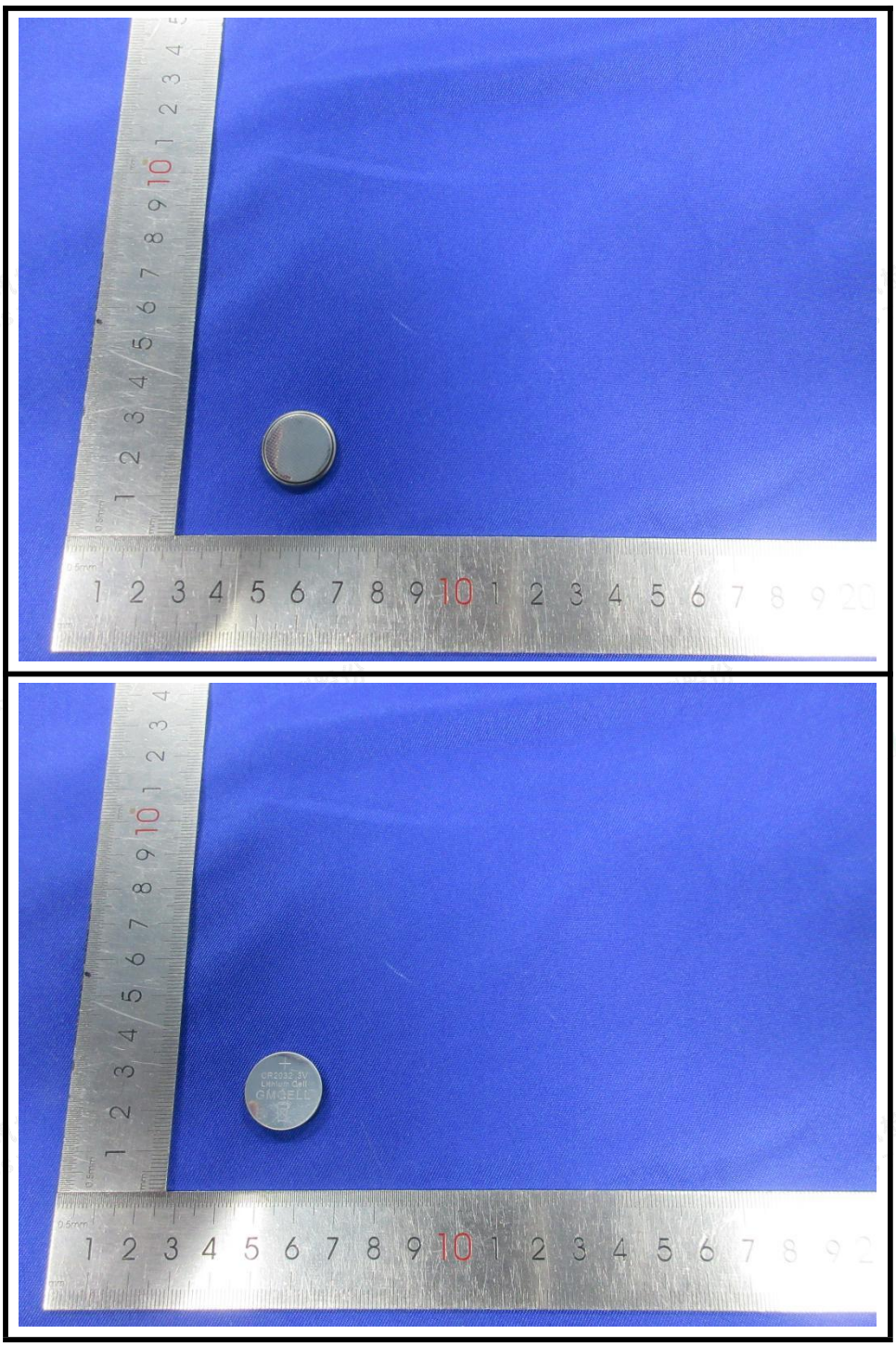
1. Lead(Pb) & Cadmium(Cd)




2. Mercury(Hg)



# Sample photo(s)



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Scan code to check authenticity

**Statement:**

1. The test report shall not be deemed valid unless it bears the signature of the approver and the company's official seal.
2. The company name, address, and sample information presented in the report were provided by the applicant, who is solely responsible for their authenticity, which LCS has not verified.
3. The test results included in this report are solely accountable for the tested samples.
4. The reproduction of any part of this report is strictly prohibited without LCS's prior written consent.
5. In cases of any discrepancies between the Chinese and English versions of this report, the Chinese version shall take precedence.

*** End of Report ***