



# UN38.3 试验概要

## UN38.3 Test Summary



812000400060306

| 单位信息 Company information           |                                                                                                                                                                                                                                                                            |                                |                                                                     |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------|
| 委托单位<br>Consignor                  | 乐金化学(南京)信息电子材料有限公司 LG Chem(Nanjing) I&E Materials Co.,Ltd<br>南京经济技术开发区恒谊路 17 号 NO 17 HENGYI RD NANJING ECONOMICAL & TECHNICAL DEVELOPMENT ZONE<br>025-85603000 zhanghonglu@lgchem.com www.lgchem.com                                                                       |                                |                                                                     |
| 生产单位<br>Manufacturer               | 南京莱斯康电子有限公司 Nan Jing Nexcon Electronics Co.,Ltd<br>南京经济技术开发区栖霞街道刀枪河路 11 号 No.11, Daoqianghe Road, Economic & Technical Development Zone East Side, Qixia Area, Nanjing City, Jiangsu Province, China<br>15895891460 caolijun132x@nexcontech.net http://www.nexcontech.com/ |                                |                                                                     |
| 测试单位<br>Test lab                   | LG Chem, ltd. LG Chem, ltd.<br>韩国首尔市永登浦区汝矣大道 128 号 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea<br>010-77425427 kkammy@lgchem.com www.lgchem.com                                                                                                            |                                |                                                                     |
| 电池信息 Battery information           |                                                                                                                                                                                                                                                                            |                                |                                                                     |
| 名称<br>Name                         | 锂离子电池                                                                                                                                                                                                                                                                      | 品牌<br>Brand                    | /                                                                   |
| 型号<br>Type                         | L20L3P71                                                                                                                                                                                                                                                                   | 原始测试型号<br>Original tested type | /                                                                   |
| 标称电压(V)<br>Nominal voltage         | 11.61                                                                                                                                                                                                                                                                      | 容量/能量<br>Capacity/energy       | Typical Capacity:4548mAh<br>52.8Wh/Rated<br>Capacity:4419mAh 51.3Wh |
| 描述<br>Description                  | 可充电锂离子电池组<br>Rechargeable Li-ion battery                                                                                                                                                                                                                                   | 锂含量(g)<br>Li content           | /                                                                   |
| 质量(kg)<br>Mass                     | 0.201                                                                                                                                                                                                                                                                      | 外观<br>Appearance               | 黑色塑料薄膜外壳 Black plastic film shell                                   |
| 测试信息 Test information              |                                                                                                                                                                                                                                                                            |                                |                                                                     |
| 原报告编号<br>Original test report No.  | QDI-200806-B-L20L3P71                                                                                                                                                                                                                                                      | 测试报告日期<br>Date of test report  | 2020-08-06                                                          |
| 测试标准<br>Test standard              | 联合国《关于危险货物运输的建议书 试验和标准手册》第 38.3 章 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria 38.3 ST/SG/AC.10/11/Rev.6/Ame nd.1                                                                                                     |                                |                                                                     |
| T.1 高度模拟<br>Altitude simulation    | 合格 Passed                                                                                                                                                                                                                                                                  | T.2 温度测试<br>Thermal test       | 合格 Passed                                                           |
| T.3 振动测试<br>Vibration              | 合格 Passed                                                                                                                                                                                                                                                                  | T.4 冲击测试<br>Shock              | 合格 Passed                                                           |
| T.5 外部短路<br>External short circuit | 合格 Passed                                                                                                                                                                                                                                                                  | T.6 挤压<br>Crush                | 合格 Passed                                                           |
| T.7 过度充电<br>Overcharge             | 合格 Passed                                                                                                                                                                                                                                                                  | T.8 强制放电<br>Forced discharge   | 合格 Passed                                                           |
| 38.3.3 (f)                         | /                                                                                                                                                                                                                                                                          | 38.3.3 (g)                     | /                                                                   |





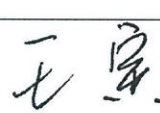
# 样品图片 Sample Picture



**Lenovo**

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Model Name 型号/型号: L20L3P71  
 ASM P/N : SB11A14634  
 FRU P/N : 5B11A14635  
 3ICP779/46  
 11.61V --- Typical Capacity 4548mAh/52.8Wh, Rated Capacity 4419mAh/51.3Wh  
 额定容量: 4419mAh 充电限制电压 (limited charging voltage): 13.35V  
 For use with Lenovo personal computer  
 制造商: 株式会社LG化学  
 Rechargeable Li-ion Battery / 锂离子电池组  
 Made in China 制造地: 中国  
 CAUTION: Replace with same type only.  
 Use of another battery may present a fire or explosion.

|                          |                                                                                                                                                                                                                                                                        |                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 结论<br>Conclusion         | 测试样品符合联合国《关于危险货物运输的建议书试验和标准手册》ST/SG/AC.10/11/Rev.6/Amend.1 38.3 标准要求。The tested samples meet the requirements of test items of the UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1 38.3 |                                                                                                                        |
| 备注<br>Remark             | /                                                                                                                                                                                                                                                                      |                                                                                                                        |
| 签名 Signature<br>职务 Title | <br>王寅<br>副总工程师 Vice chief engineer                                                                                                                                                 | <br>签发日期<br>Issued date 2020-08-17 |

-验证码:372323-

\*\*\*报告结束\*\*\*

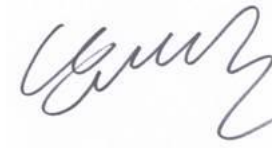
## UN38.3 Test Summary

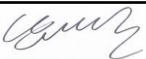
| Manufacturer's contact information                  | LG Chem, Ltd.<br>128 Yeoui-Daero, Yeongdeungpo-gu, SEOUL, 150-721, REPUBLIC OF KOREA<br>Telephone : +82-10-7742-5427      E-mail : kkammy@lgchem.com      Website : <a href="http://www.lgchem.com">www.lgchem.com</a>                                                             |                                |                        |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------|
| Test Laboratory information                         | LG Chem, Ltd. / RESEARCH PARK<br>188 Munjiro, Yuseong-gu, Daejeon, 305-738, REPUBLIC OF KOREA<br>Telephone : +82-10-3099-3724      E-mail : juhongpark@lgchem.com      Website : <a href="http://www.lgchem.com">www.lgchem.com</a>                                                |                                |                        |
|                                                     | LG Chem (Nanjing) I&E Materials Co., Ltd<br>NO.17 Hengyi Road, Nanjing Economic & Technological Development Zone, Nanjing, Jiangsu, China<br>Telephone : +86-025-85603000-8231      E-mail : njliying@lgchem.com      Website : <a href="http://www.lgchem.com">www.lgchem.com</a> |                                |                        |
| Description                                         |                                                                                                                                                                                                                                                                                    | List of Test Completed         |                        |
| Cell/Battery Type<br>(Physical Description)         | Lithium Ion battery pack<br>(Pouch)                                                                                                                                                                                                                                                | Revised edition                | Revision 6 Amendment 1 |
| Test Report Number                                  | QDI-200806-B-L20L3P71                                                                                                                                                                                                                                                              | Test 1. Altitude Simulation    | Pass                   |
| Date of test report                                 | 2020.08.06                                                                                                                                                                                                                                                                         | Test 2. Thermal Test           | Pass                   |
| Model name                                          | P467970A1                                                                                                                                                                                                                                                                          | Test 3. Vibration              | Pass                   |
| Nominal voltage (V)                                 | 11.61                                                                                                                                                                                                                                                                              | Test 4. Shock                  | Pass                   |
| Capacity (Nominal Wh)                               | 52.80                                                                                                                                                                                                                                                                              | Test 5. External Short Circuit | Pass                   |
| Weight (g)                                          | 200.0                                                                                                                                                                                                                                                                              | Test 6. Impact or Crush        | Pass                   |
| Dimensions (mm)                                     | 254.20 X 82.80 X 8.30                                                                                                                                                                                                                                                              | Test 7. Overcharge             | Pass                   |
| Reference to assembled battery testing requirements | Not applicable                                                                                                                                                                                                                                                                     | Test 8. Forced Discharge       | Pass                   |

Reviewed By: Juhong Park  
 IT & New Application Part Leader  
 Global Standard Certification Team  
 LG Chem, Ltd.  
 E-mail: [juhongpark@lgchem.com](mailto:juhongpark@lgchem.com)



Approved By: DaeHo Nam  
 Team Leader  
 Global Standard Certification Team  
 LG Chem, Ltd.  
 E-mail: [kkammy@lgchem.com](mailto:kkammy@lgchem.com)



|                 |                       |                                                                                   |
|-----------------|-----------------------|-----------------------------------------------------------------------------------|
| Document Number | QDI-200806-B-L20L3P71 |                                                                                   |
| Prepared        | Taecheon Kim          |  |
| Reviewed        | Juhong Park           |  |
| Approved        | DaeHo Nam             |  |

# UN38.3 Test Report

## - L20L3P71 (Nom.52.8Wh, 11.61V) -

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3. Sample Image

2020. 08. 06



# 1. UN38.3 Test Condition

Rev.6 Amendment 1

| Test item                      | Test Condition                                                                                                                                                                                                                                      | Requirements                                                                                                                                                                                                                                                                                                                                                                       | Etc.                                                                                                                                                                                                                                                                        |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test 1. Altitude Simulation    | Storing at (low pressure) 11.6kPa for 6hr at 20+/-5℃                                                                                                                                                                                                | <ul style="list-style-type: none"> <li>- After OCV (%) ≥ 90%</li> <li>- No leakage, no venting, no disassembly, no rupture, no fire</li> <li>- Mass loss limit (leakage)                             <ul style="list-style-type: none"> <li>1) If M&lt;1g, less than 0.5%,</li> <li>2) If 1g≤M≤75g, less than 0.2%,</li> <li>3) If M&gt;75g, less than 0.1%</li> </ul> </li> </ul> | <p>T1~T5 : Sequence Tests</p> <pre> graph TD     T1[Test 1<br/>Altitude Simulation] --&gt; T2[Test 2<br/>Thermal Test]     T2 --&gt; T3[Test 3<br/>Vibration]     T3 --&gt; T4[Test 4<br/>Shock]     T4 --&gt; T5[Test 5<br/>Ext. Short Circuit]                     </pre> |
| Test 2. Thermal Test           | [72±2℃, 6hr ↔ -40±2℃, 6hr, interval max. 30min] x 10cycle<br>Storing at 20±5℃ for 24h                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                             |
| Test 3. Vibration              | [7Hz↔200Hz↔7Hz, in 15min] x 12 times x 3 direction<br>1) sinusoidal waveform with a logarithmic sweep<br>2) 7Hz 18Hz (maintaining 1gn) app. 50Hz (until 8gn)<br>200Hz (maintaining 8gn), 1.6mm total excursion                                      |                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                             |
| Test 4. Shock                  | Half sine shock<br>1) Peak acceleration<br>- For cells & single cell batteries : 150gn<br>- For batteries (whichever is smaller) : 150gn or $\sqrt{\frac{100850}{Mass(kg)}} gn$<br>2) Pulse duration : 6msec<br>3) 6 direction (±x, y, z) x 3 cycle |                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                             |
| Test 5. External Short Circuit | 1) Samples to be heated to 57±4℃ in chamber (Measured on external case)<br>2) Less than 0.1Ω, ext. short-circuit at 57±4℃<br>3) 1hr continue after returning to 57±4℃                                                                               |                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                             |
| Test 6. Impact                 | Φ=15.8±0.1mm bar, 9.1±0.1kg mass, 61±2.5cm height                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>- No disassembly, no fire within 6 hours after the test</li> <li>- Max. Temp ≤ 170℃</li> </ul>                                                                                                                                                                                                                                              | for cylindrical cells (dia ≥ 18mm)                                                                                                                                                                                                                                          |
| Test 6. Crush                  | Crushing rate : 1.5cm/s, until 13kN±0.78kN or 100mV drop or 50% deformation                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                    | for cylindrical cells (dia < 18mm)<br>for prismatic, pouch, coin/button cells                                                                                                                                                                                               |
| Test 7. Overcharge             | Current = Manufacturer's recommended max. continuous charge current X 2<br>Voltage<br>1. If charge voltage ≤ 18V,<br>V (min.) = 2 x (max. charge voltage) or 22V.<br>2. If charge voltage > 18V,<br>V (min.) = 1.2 x (max. charge voltage)          | <ul style="list-style-type: none"> <li>- No disassembly, no fire within 7 days after the test</li> </ul>                                                                                                                                                                                                                                                                           | Only for Single Cell Battery / Battery                                                                                                                                                                                                                                      |
| Test 8. Forced Discharge       | Discharge at max. discharge current (connecting in series with 12V DC power supply),<br>Duration time = rated capacity/initial test current                                                                                                         | <ul style="list-style-type: none"> <li>- No disassembly, no fire within 7 days after the test</li> </ul>                                                                                                                                                                                                                                                                           | Resistance of Electric Loader<br>$R_t = \frac{12V + V_c}{Max\ discharge\ current}$ - Rc-Rw                                                                                                                                                                                  |

# 2-1. T1-T4 Test Result

| Before |     |          | Altitude (T1) |          |              |              |        | Thermal (T2)  |          |              |              |        | Vibration (T3) |          |              |              |        | Shock (T4)    |          |              |              |        |
|--------|-----|----------|---------------|----------|--------------|--------------|--------|---------------|----------|--------------|--------------|--------|----------------|----------|--------------|--------------|--------|---------------|----------|--------------|--------------|--------|
| NO.    | OCV | Mass (g) | After OCV (V) | Mass (g) | After OCV(%) | Mass Loss(%) | Result | After OCV (V) | Mass (g) | After OCV(%) | Mass Loss(%) | Result | After OCV (V)  | Mass (g) | After OCV(%) | Mass Loss(%) | Result | After OCV (V) | Mass (g) | After OCV(%) | Mass Loss(%) | Result |

A. 1st cycle fully charged state

|   |        |        |        |        |        |       |      |        |        |       |       |      |        |        |       |       |      |        |        |        |       |      |
|---|--------|--------|--------|--------|--------|-------|------|--------|--------|-------|-------|------|--------|--------|-------|-------|------|--------|--------|--------|-------|------|
| 1 | 13.162 | 200.30 | 13.161 | 200.30 | 99.99  | 0.000 | Pass | 12.961 | 200.30 | 98.48 | 0.000 | Pass | 12.958 | 200.30 | 99.98 | 0.000 | Pass | 12.958 | 200.30 | 100.00 | 0.000 | Pass |
| 2 | 13.162 | 200.35 | 13.161 | 200.35 | 99.99  | 0.000 | Pass | 12.961 | 200.35 | 98.48 | 0.000 | Pass | 12.958 | 200.35 | 99.98 | 0.000 | Pass | 12.958 | 200.35 | 100.00 | 0.000 | Pass |
| 3 | 13.185 | 200.61 | 13.185 | 200.61 | 100.00 | 0.000 | Pass | 12.444 | 200.61 | 94.38 | 0.000 | Pass | 12.442 | 200.61 | 99.98 | 0.000 | Pass | 12.442 | 200.61 | 100.00 | 0.000 | Pass |
| 4 | 13.178 | 200.45 | 13.178 | 200.45 | 100.00 | 0.000 | Pass | 12.974 | 200.45 | 98.45 | 0.000 | Pass | 12.972 | 200.45 | 99.98 | 0.000 | Pass | 12.972 | 200.45 | 100.00 | 0.000 | Pass |

B. 25th cycle fully charged state

|   |        |        |        |        |        |       |      |        |        |       |       |      |        |        |       |       |      |        |        |        |       |      |
|---|--------|--------|--------|--------|--------|-------|------|--------|--------|-------|-------|------|--------|--------|-------|-------|------|--------|--------|--------|-------|------|
| 5 | 13.228 | 200.43 | 13.228 | 200.43 | 100.00 | 0.000 | Pass | 12.953 | 200.43 | 97.92 | 0.000 | Pass | 12.951 | 200.43 | 99.98 | 0.000 | Pass | 12.951 | 200.43 | 100.00 | 0.000 | Pass |
| 6 | 13.228 | 200.42 | 13.227 | 200.42 | 99.99  | 0.000 | Pass | 12.952 | 200.42 | 97.92 | 0.000 | Pass | 12.950 | 200.42 | 99.98 | 0.000 | Pass | 12.950 | 200.42 | 100.00 | 0.000 | Pass |
| 7 | 13.227 | 200.40 | 13.227 | 200.40 | 100.00 | 0.000 | Pass | 12.644 | 200.40 | 95.59 | 0.000 | Pass | 12.643 | 200.40 | 99.99 | 0.000 | Pass | 12.643 | 200.40 | 100.00 | 0.000 | Pass |
| 8 | 13.222 | 200.58 | 13.222 | 200.58 | 100.00 | 0.000 | Pass | 12.966 | 200.58 | 98.06 | 0.000 | Pass | 12.965 | 200.58 | 99.99 | 0.000 | Pass | 12.965 | 200.58 | 100.00 | 0.000 | Pass |

# 2-2. T5/T7 Test Result

| EXT.Short Circuit (T5) |                |                |        |
|------------------------|----------------|----------------|--------|
| NO.                    | Initial OCV(V) | Max. Temp (°C) | Result |

A. 1st cycle fully charged state

|   |        |       |      |
|---|--------|-------|------|
| 1 | 12.958 | 56.95 | Pass |
| 2 | 12.958 | 56.76 | Pass |
| 3 | 12.442 | 56.60 | Pass |
| 4 | 12.972 | 56.32 | Pass |

B. 25th cycle fully charged state

|   |        |       |      |
|---|--------|-------|------|
| 5 | 12.951 | 56.07 | Pass |
| 6 | 12.950 | 56.13 | Pass |
| 7 | 12.643 | 55.81 | Pass |
| 8 | 12.965 | 55.46 | Pass |

| Over Charge (T7) |                |                |        |
|------------------|----------------|----------------|--------|
| NO.              | Initial OCV(V) | Max. Temp (°C) | Result |

A. 1st cycle fully charged state

|    |        |       |      |
|----|--------|-------|------|
| 9  | 13.126 | 21.50 | Pass |
| 10 | 13.129 | 22.10 | Pass |
| 11 | 13.127 | 21.50 | Pass |
| 12 | 13.122 | 21.60 | Pass |

| Over Charge (T7) |                |                |        |
|------------------|----------------|----------------|--------|
| NO.              | Initial OCV(V) | Max. Temp (°C) | Result |

B. 25th cycle fully charged state

|    |        |       |      |
|----|--------|-------|------|
| 13 | 13.220 | 21.54 | Pass |
| 14 | 13.230 | 21.54 | Pass |
| 15 | 13.270 | 21.29 | Pass |
| 16 | 13.217 | 21.60 | Pass |



# 2-3. T6/T8 Test Result (P467970A1)

| Crush (T6) |                |                |        |
|------------|----------------|----------------|--------|
| NO.        | Initial OCV(V) | Max. Temp (°C) | Result |

A. 1st cycle 50% charged state

|     |       |       |      |
|-----|-------|-------|------|
| C-1 | 3.878 | 21.98 | Pass |
| C-2 | 3.878 | 21.71 | Pass |
| C-3 | 3.876 | 22.34 | Pass |
| C-4 | 3.876 | 22.34 | Pass |
| C-5 | 3.878 | 22.19 | Pass |

B. 25st cycle 50% charged state

|      |       |       |      |
|------|-------|-------|------|
| C-6  | 3.882 | 22.12 | Pass |
| C-7  | 3.880 | 21.99 | Pass |
| C-8  | 3.881 | 22.13 | Pass |
| C-9  | 3.880 | 22.29 | Pass |
| C-10 | 3.881 | 22.17 | Pass |

| Forced Discharge (T8) |                |                |        |     |                |                |        |
|-----------------------|----------------|----------------|--------|-----|----------------|----------------|--------|
| NO.                   | Initial OCV(V) | Max. Temp (°C) | Result | NO. | Initial OCV(V) | Max. Temp (°C) | Result |

A. 1st cycle fully discharged state

|      |       |       |      |
|------|-------|-------|------|
| C-6  | 3.470 | 65.73 | Pass |
| C-7  | 3.466 | 65.74 | Pass |
| C-8  | 3.459 | 69.46 | Pass |
| C-9  | 3.457 | 67.21 | Pass |
| C-10 | 3.455 | 65.56 | Pass |
| C-11 | 3.474 | 68.52 | Pass |
| C-12 | 3.474 | 66.42 | Pass |
| C-13 | 3.463 | 65.35 | Pass |
| C-14 | 3.474 | 65.59 | Pass |
| C-15 | 3.468 | 66.26 | Pass |

B. 25th cycle fully discharged state

|      |       |       |      |
|------|-------|-------|------|
| C-16 | 3.385 | 71.16 | Pass |
| C-17 | 3.404 | 68.60 | Pass |
| C-18 | 3.420 | 72.88 | Pass |
| C-19 | 3.406 | 73.10 | Pass |
| C-20 | 3.430 | 68.89 | Pass |
| C-21 | 3.413 | 68.14 | Pass |
| C-22 | 3.412 | 68.13 | Pass |
| C-23 | 3.400 | 63.69 | Pass |
| C-24 | 3.410 | 65.76 | Pass |
| C-25 | 3.419 | 74.78 | Pass |



# 3. Sample Image



|                 |                          |                                                                                   |
|-----------------|--------------------------|-----------------------------------------------------------------------------------|
| Document Number | QDI-200730-B-L20L3P71-D1 |                                                                                   |
| Prepared        | Jie Ma                   |  |
| Approved        | Ying Li                  |  |

# 1.2m Drop Test Report

- L20L3P71 (Nom. 52.80Wh, 11.61V) -

2020. 07. 30



# 1.2m Drop Test Report

A. Test Information

| Standard requirement or The Clause Number of Standard                                                                                        | Test Condition                                                                                                                                                                                                                                                                    | Requirement                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UNITED NATIONS<br>“Recommendations on the<br>TRANSPORT OF DANGEROUS<br>GOODS” Model Regulations(18 <sup>th</sup> )<br>special provisions 188 | <b>1.2m Box Drop</b><br>- 1st drop : corner<br>- 2nd drop : flat on the bottom<br>- 3rd drop : flat on the top<br>- 4th drop : flat on the long side<br>- 5th drop : flat on the short side<br> | Without ;<br>- Damage to cells or batteries contained therein<br>- Shifting of the contents so as to allow battery to battery (or cell to cell) contact<br>- Release of contents |

B. Box Information

|              |               |                         |            |
|--------------|---------------|-------------------------|------------|
| Dimensions   | 385*290*180mm | Battery Quantity        | 34 pcs/Box |
| Gross weight | 8.860 kg      | Net Weight of Batteries | 6.817 kg   |

C. Image

| Image-1                                                                           | Image-2                                                                             |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |

D. Test Result

| Result | Result Detail                                                           |
|--------|-------------------------------------------------------------------------|
| PASS   | The box was not cracked, the contents were not damaged and not shifted. |