**SCREENING REPORT** Page: 1

**Test Number:** 14665B01  **Report Date:** 2021-03-05

**Battery Name:** Sony/Murata VTC6-18650

**Chemistry:** Li-Ion

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**Request Number:** Request02

**Task Number:** Task02

**Lot Number:** 10588

**Form Factor:** Cylindrical 18650

**Purpose:** SiteRestockb

**Project Engineer:** PeterWang

Criteria: Section One Min. Section TwoMin.

**OCV (Volt):** 1.71.7

**CCV (Volt):** 1.61.6

**Drain Time (Sec):** 55

**Resistor (Ω): :** 200200

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**Battery Size (mm):** 65.15(H) X 18.35(D)

**Discharge Temperature (°C):** 24

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**Number of Batteries Tested :** 34

**Number of Batteries Failed(\*):** 29

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**Date of Manufacture:** 2016-09-25

**Date of Receipt:** 2017-12-26

**Date Started:** 2019-12-09

**Date Completed:** 2019-12-09

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Prepared By: \_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Reviewed By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

Reviewed By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

**Test Number:** 14665B01

Note(s):  
  
1. Report Date:  
  
2. Test Responsibility:  
   
 a. Data file preparation:  
 b. Technical review:  
 c. Final review:

**SCREENING REPORT**

**Test Number:** 14665B01  **Date:**2021-03-04

**Sample Name:** Sony/Murata VTC6-18650

**Chemistry:** Li-Ion

**Section Two** **Voltage Statistic Table**

All samples OCV CCV

**Maximum:** **1.817** **1.811**

**Minimum:** **1.499** **1.344**

**Median:** **1.660** **1.533**

**Mean (M):** **1.645** **1.543**

**Stander Deviation (SD):** **0.11356** **0.13762**

**Total Samples:** **34** **34**

**Total Passing Criterion:** **12** **9**

**Total Failing Criterion:** **22** **25**

**95%** **confidence Interval (Min/Max)** **1.605/1.685** **1.495/1.591**

**Total Samples Outside Range:** **0** **0**

**OCV >or= 1.700**

**CCV >or= 1.600 @ 200 Ohms for 5 Seconds.**

**CUMULATIVE TABLE**

|  |  |  |  |
| --- | --- | --- | --- |
| **All Sample OCV** | | **All Sample CCV** | |
| Voltage Range | Samples | Voltage Range | Samples |
| 1.817-1.776 | 6 | 1.811-1.752 | 5 |
| 1.776-1.735 | 2 | 1.752-1.693 | 0 |
| 1.735-1.694 | 6 | 1.693-1.634 | 2 |
| 1.694-1.653 | 5 | 1.634-1.575 | 4 |
| 1.653-1.612 | 2 | 1.575-1.516 | 9 |
| 1.612-1.571 | 1 | 1.516-1.457 | 3 |
| 1.571-1.530 | 0 | 1.457-1.398 | 5 |
| 1.530-1.489 | 12 | 1.398-1.339 | 6 |

**SCREENING REPORT**

**Test Number:** 14665B01  **Date:**2021-03-04

**Sample Name:** Sony/Murata VTC6-18650

**Chemistry:** Li-Ion

**Section Two** **Voltage Statistic Table**

All samples OCV CCV

**Maximum:** **1.816** **1.813**

**Minimum:** **1.527** **1.503**

**Median:** **1.794** **1.791**

**Mean (M):** **1.732** **1.725**

**Stander Deviation (SD):** **0.12482** **0.13217**

**Total Samples:** **7** **7**

**Total Passing Criterion:** **5** **5**

**Total Failing Criterion:** **2** **2**

**95%** **confidence Interval (Min/Max)** **1.616/1.847** **1.603/1.847**

**Total Samples Outside Range:** **0** **0**

**OCV >or= 1.700**

**CCV >or= 1.600 @ 200 Ohms for 5 Seconds.**

**CUMULATIVE TABLE**

|  |  |  |  |
| --- | --- | --- | --- |
| **All Sample OCV** | | **All Sample CCV** | |
| Voltage Range | Samples | Voltage Range | Samples |
| 1.816-1.757 | 5 | 1.813-1.750 | 5 |
| 1.757-1.698 | 0 | 1.750-1.687 | 0 |
| 1.698-1.639 | 0 | 1.687-1.624 | 0 |
| 1.639-1.580 | 0 | 1.624-1.561 | 1 |
| 1.580-1.521 | 2 | 1.561-1.498 | 1 |

**SCREENING REPORT**

**Test Number:** 14665B01 **Raw Data** **Chemistry:** Li-Ion

**Sample Name:** Sony/Murata VTC6-18650 **Load:** 200/200Ω

**Sort Order:** Bar Code Number **Load Time:** 5/5Sec(S)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Bar Code Number | Manufacturer  Number | Manufacture Date | Section 1 OCV | Section 1 CCV | Section 2 OCV | Section 2 CCV | Inspection |
| 455150 |  | 2016-09-25 | 1.793 | 1.789 | 1.816 | 1.813 | Pass |
| 455151 |  | 2016-09-25 | 1.792 | 1.788 | 1.811 | 1.808 | Pass |
| 455152 |  | 2016-09-25 | 1.811 | 1.807 | 1.793 | 1.79 | Pass |
| 455153 |  | 2016-09-25 | 1.816 | 1.811 | 1.794 | 1.791 | Pass |
| 455154 |  | 2016-09-25 | 1.808 | 1.804 | 1.807 | 1.805 | Pass |
| 449449 |  | 2016-09-25 | 1.527 ! | 1.494 ! | 1.527 ! | 1.503 ! | Fail |
| 449450 |  | 2016-09-25 | 1.574 ! | 1.561 ! | 1.574 ! | 1.564 ! | Fail |
| 455489 |  | 2016-09-25 | 1.659 ! | 1.679 |  |  | Fail |
| 455494 |  | 2016-09-25 | 1.654 ! | 1.534 ! |  |  | Fail |
| 455495 |  | 2016-09-25 | 1.632 ! | 1.516 ! |  |  | Fail |
| 455496 |  | 2016-09-25 | 1.817 | 1.651 |  |  | Pass |
| 455497 |  | 2016-09-25 | 1.767 | 1.612 |  |  | Pass |
| 455498 |  | 2016-09-25 | 1.727 | 1.578 ! |  |  | Fail |
| 315412 |  | 2016-09-25 | 1.703 | 1.553 ! |  |  | Fail |
| 8947645 |  | 2016-09-25 | 1.66 ! | 1.524 ! |  |  | Fail |
| 321321 |  | 2016-09-25 | 1.709 | 1.562 ! |  |  | Fail |
| 131314 |  | 2016-09-25 | 1.662 ! | 1.529 ! |  |  | Fail |
| 45514 |  | 2016-09-25 | 1.633 ! | 1.51 ! |  |  | Fail |
| 31313 |  | 2016-09-25 | 1.76 | 1.609 |  |  | Pass |
| 131213 |  | 2016-09-25 | 1.726 | 1.578 ! |  |  | Fail |
| 113211 |  | 2016-09-25 | 1.695 ! | 1.553 ! |  |  | Fail |
| 21321 |  | 2016-09-25 | 1.696 ! | 1.553 ! |  |  | Fail |
| 2132113 |  | 2016-09-25 | 1.669 ! | 1.532 ! |  |  | Fail |
| 31314 |  | 2016-09-25 | 1.528 ! | 1.344 ! |  |  | Fail |
| 212131 |  | 2016-09-25 | 1.526 ! | 1.407 ! |  |  | Fail |
| 111 |  | 2016-09-25 | 1.525 ! | 1.403 ! |  |  | Fail |
| 112 |  | 2016-09-25 | 1.519 ! | 1.402 ! |  |  | Fail |
| 113 |  | 2016-09-25 | 1.516 ! | 1.402 ! |  |  | Fail |
| 114 |  | 2016-09-25 | 1.513 ! | 1.401 ! |  |  | Fail |
| 115 |  | 2016-09-25 | 1.507 ! | 1.398 ! |  |  | Fail |
| 116 |  | 2016-09-25 | 1.504 ! | 1.396 ! |  |  | Fail |
| 117 |  | 2016-09-25 | 1.5 ! | 1.394 ! |  |  | Fail |
| 118 |  | 2016-09-25 | 1.5 ! | 1.394 ! |  |  | Fail |
| 119 |  | 2016-09-25 | 1.499 ! | 1.393 ! |  |  | Fail |