**SCREENING REPORT** Page: 1

**Test Number:** 14462C00  **Report Date:** 2020-08-21

**Battery Name:** Renata CR2032REN

**Chemistry:** Li/MnO2

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**Request Number:**

**Task Number:** 10106

**Lot Number:** 9616

**Form Factor:** Coin N.A.

**Purpose:** Test BTC Screen System

**Project Engineer:** RDW

Criteria:Screening Min.

**OCV (Volt):** 3.2

**CCV (Volt):** 2.7

**Drain Time (Sec):** 5

**Resistor (Ω): :** 1421

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**Battery Size (mm):** 3.2(H) X 20.0(D)

**Discharge Temperature (°C):** 24

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**Number of Batteries Tested :** 50

**Number of Batteries Failed(\*):** 0

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**Date of Manufacture:** 2015-08-15

**Date of Receipt:** 2016-06-22

**Date Started:** 2020-01-10

**Date Completed:** 2020-01-10

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

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

**Test Number:** 14462C00

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

**SCREENING REPORT**

**Test Number:** 14462C00  **Date:**2020-08-21

**Sample Name:** Renata CR2032REN

**Chemistry:** Li/MnO₂

**Voltage Statistic Table**

All samples OCV CCV

**Maximum:** **3.282** **3.214**

**Minimum:** **3.255** **3.018**

**Median:** **3.274** **3.200**

**Mean (M):** **3.274** **3.193**

**Stander Deviation (SD):** **0.00462** **0.03**

**Total Samples:** **50** **50**

**Total Passing Criterion:** **50** **50**

**Total Failing Criterion:** **0** **0**

**95%** **confidence Interval (Min/Max)** **3.272/3.275** **3.184/3.201**

**Total Samples Outside Range:** **2** **6**

**OCV >or= 3.200**

**CCV >or= 2.700 @ 1421 Ohms for 5 Seconds.**

**CUMULATIVE TABLE**

|  |  |  |  |
| --- | --- | --- | --- |
| **All Sample OCV** | | **All Sample CCV** | |
| Voltage Range | Samples | Voltage Range | Samples |
| 3.282-3.278 | 7 | 3.214-3.191 | 40 |
| 3.278-3.274 | 13 | 3.191-3.168 | 6 |
| 3.274-3.270 | 21 | 3.168-3.145 | 1 |
| 3.270-3.266 | 7 | 3.145-3.122 | 2 |
| 3.266-3.262 | 1 | 3.122-3.099 | 0 |
| 3.262-3.258 | 0 | 3.099-3.076 | 0 |
| 3.258-3.254 | 1 | 3.076-3.053 | 0 |
| 3.254-3.250 | 0 | 3.053-3.030 | 0 |
|  |  | 3.030-3.007 | 1 |

**SCREENING REPORT**

**Test Number:** 14462C00 **Raw Data** **Chemistry:** Li/MnO2

**Sample Name:** Renata CR2032REN **Load:** 1421Ω

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Bar Code Number | Manufacturer  Number | Manufacture Date | Screening  OCV | Screening  CCV |  |  | Inspection |
| 460243 | 1 | 2015-08-15 | 3.27 | 3.132 |  |  | Outlier |
| 460244 | 2 | 2015-08-15 | 3.281 | 3.192 |  |  | Pass |
| 460245 | 3 | 2015-08-15 | 3.264 | 3.2 |  |  | Outlier |
| 460246 | 4 | 2015-08-15 | 3.273 | 3.211 |  |  | Pass |
| 460247 | 5 | 2015-08-15 | 3.276 | 3.203 |  |  | Pass |
| 460248 | 6 | 2015-08-15 | 3.272 | 3.207 |  |  | Pass |
| 460249 | 7 | 2015-08-15 | 3.274 | 3.193 |  |  | Pass |
| 460250 | 8 | 2015-08-15 | 3.274 | 3.199 |  |  | Pass |
| 460251 | 9 | 2015-08-15 | 3.277 | 3.199 |  |  | Pass |
| 460252 | 10 | 2015-08-15 | 3.275 | 3.191 |  |  | Pass |
| 460253 | 11 | 2015-08-15 | 3.281 | 3.167 |  |  | Outlier |
| 460254 | 12 | 2015-08-15 | 3.273 | 3.204 |  |  | Pass |
| 460255 | 13 | 2015-08-15 | 3.272 | 3.203 |  |  | Pass |
| 460256 | 14 | 2015-08-15 | 3.278 | 3.194 |  |  | Pass |
| 460257 | 15 | 2015-08-15 | 3.275 | 3.137 |  |  | Outlier |
| 460258 | 16 | 2015-08-15 | 3.272 | 3.2 |  |  | Pass |
| 460259 | 17 | 2015-08-15 | 3.255 | 3.018 |  |  | Outlier |
| 460260 | 18 | 2015-08-15 | 3.272 | 3.2 |  |  | Pass |
| 460261 | 19 | 2015-08-15 | 3.274 | 3.208 |  |  | Pass |
| 460262 | 20 | 2015-08-15 | 3.27 | 3.207 |  |  | Pass |
| 460263 | 21 | 2015-08-15 | 3.269 | 3.204 |  |  | Pass |
| 460264 | 22 | 2015-08-15 | 3.275 | 3.201 |  |  | Pass |
| 460265 | 23 | 2015-08-15 | 3.271 | 3.202 |  |  | Pass |
| 460266 | 24 | 2015-08-15 | 3.274 | 3.2 |  |  | Pass |
| 460267 | 25 | 2015-08-15 | 3.279 | 3.21 |  |  | Pass |
| 460268 | 26 | 2015-08-15 | 3.274 | 3.207 |  |  | Pass |
| 460269 | 27 | 2015-08-15 | 3.272 | 3.214 |  |  | Pass |
| 460270 | 28 | 2015-08-15 | 3.269 | 3.195 |  |  | Pass |
| 460271 | 29 | 2015-08-15 | 3.274 | 3.202 |  |  | Pass |
| 460272 | 30 | 2015-08-15 | 3.273 | 3.206 |  |  | Pass |
| 460273 | 31 | 2015-08-15 | 3.276 | 3.186 |  |  | Pass |
| 460274 | 32 | 2015-08-15 | 3.282 | 3.197 |  |  | Pass |
| 460275 | 33 | 2015-08-15 | 3.269 | 3.199 |  |  | Pass |
| 460276 | 34 | 2015-08-15 | 3.274 | 3.21 |  |  | Pass |
| 460277 | 35 | 2015-08-15 | 3.275 | 3.201 |  |  | Pass |
| 460278 | 36 | 2015-08-15 | 3.275 | 3.186 |  |  | Pass |
| 460279 | 37 | 2015-08-15 | 3.281 | 3.194 |  |  | Pass |
| 460280 | 38 | 2015-08-15 | 3.274 | 3.209 |  |  | Pass |
| 460281 | 39 | 2015-08-15 | 3.272 | 3.193 |  |  | Pass |
| 460282 | 40 | 2015-08-15 | 3.276 | 3.212 |  |  | Pass |
| 460283 | 41 | 2015-08-15 | 3.267 | 3.201 |  |  | Pass |
| 460284 | 42 | 2015-08-15 | 3.274 | 3.17 |  |  | Outlier |
| 460285 | 43 | 2015-08-15 | 3.272 | 3.185 |  |  | Pass |
| 460286 | 44 | 2015-08-15 | 3.275 | 3.2 |  |  | Pass |
| 460287 | 45 | 2015-08-15 | 3.276 | 3.197 |  |  | Pass |
| 460288 | 46 | 2015-08-15 | 3.281 | 3.172 |  |  | Outlier |
| 460289 | 47 | 2015-08-15 | 3.279 | 3.212 |  |  | Pass |
| 460290 | 48 | 2015-08-15 | 3.278 | 3.201 |  |  | Pass |
| 460291 | 49 | 2015-08-15 | 3.272 | 3.209 |  |  | Pass |
| 460292 | 50 | 2015-08-15 | 3.27 | 3.196 |  |  | Pass |