### UN 38.3 Test Summary Report

**Lithium Cell or Battery Test Summary in Accordance with Section 2.9.4 UN Model Regulations and Sub-section 38.3 of the UN Manual of Tests and Criteria, Part III, subsection 38.3.5**

<table>
<thead>
<tr>
<th>[a]</th>
<th>[☐] Cell ☑ Battery [☐] Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Tested Type Part #:</td>
<td>TLP-94131/D</td>
</tr>
<tr>
<td>[☐] Same Type Part #:</td>
<td></td>
</tr>
</tbody>
</table>

**[b] Manufacturer**

Tadiran Batteries Ltd.  
44 Yitzhak Rabin Blvd,  
Kiryat Ekron,  
Israel 7695001  
T. +972 8 9 44 503  
sales@tadiran-batt.com  
www.tadiran.com

**[d] Unique report ID:** 15Q-670

**[e] Report date:** November 2004

**[c] Test Laboratory**

Tadiran Batteries Ltd.  
44 Yitzhak Rabin Blvd,  
Kiryat Ekron,  
Israel 7695001  
T. +972 8 9 44 560  
aya-d@tadiran-batt.com  
www.tadiran.com

**[f] (i) ☐ Li-ion ☑ Li-metal.**

(iv) **Description:** Primary (non-rechargeable) 14.8 V Lithium Thionyl Chloride (Li-SOCl2) hybrid battery, assembled from a group of three (3) “DD” size cell and 1 (one) HLC-1550 cell in parallel connection and 4 groups of this in serial connection. The battery is designed to preclude violent rupture under normal conditions incident to transport. Dangerous reverse current between the parallel DD cells and HLC-1550 does not occur because of presence of parallel diode and PTC in each group. The TLP-94131/D battery may come with optional suffixes consisting of a “/” followed by one or more letters and a digit. These suffixes indicate different types of finishing to the battery, e.g. harness.

(ii) Mass: 2.5 kg  
(iii) ☐ Watt hour rating or ☑ Lithium content: 3.44 Wh and 138 g

(v) ☑ Cell ☑ Battery [☐] Product.  
Model number/Part number: TLP-94131/D

<table>
<thead>
<tr>
<th>[g] List of Tests Conducted</th>
<th>Result (Pass / Fail / N.A.)</th>
<th>Test record reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>38.3.4.1 T.1: Altitude simulation</td>
<td>Pass</td>
<td>15Q-670</td>
</tr>
<tr>
<td>38.3.4.2 T.2: Thermal test</td>
<td>Pass</td>
<td>15Q-670</td>
</tr>
<tr>
<td>38.3.4.3 T.3: Vibration</td>
<td>Pass</td>
<td>15Q-670</td>
</tr>
<tr>
<td>38.3.4.4 T.4: Shock</td>
<td>Pass</td>
<td>15Q-670</td>
</tr>
<tr>
<td>38.3.4.5 T.5: External short circuit</td>
<td>Pass</td>
<td>15Q-670</td>
</tr>
<tr>
<td>38.3.4.6 T.6: Impact/Crush (cell only test)</td>
<td>Pass</td>
<td>15Q-636, 15Q-855</td>
</tr>
<tr>
<td>38.3.4.7 T.7: Overcharge (N.A for Li-metal only)</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td>38.3.4.8 T.8: Forced discharge (cell only test)</td>
<td>Pass</td>
<td>15Q-636, 15Q-855</td>
</tr>
</tbody>
</table>

[h] Battery assembly: ☐ Not Applicable. ☑ UN38.3.3 (f) ☐ UN38.3.3 (g)


### Signature

**[j] Signatory A. Date: 2019.08.28**

Name: Aya Daniel  
Title: Quality Manager  
Signature:  
![Signature](image)

**[k] Signatory B. Date: 2019.08.28**

Name: Kobi Pinsky  
Title: VP Marketing and Sales  
Signature:  
![Signature](image)

**Important!** The above signatory / signatories affirm that this document is a true and correct summary of the original individual tests and test data. The original test data is confidential information available to competent State Authorities with valid identification and only upon their formal request. Disclosure of the original test data to any other entity upon its request will be considered by Tadiran and, should Tadiran consider this request is with merit, may be subject to the prior execution of a nondisclosure agreement.