




# UN 38.3 Test Summary / Certificate

Lithium Cell or Battery Test Summary in Accordance with Sub-section 38.3 of the UN Manual of Tests and Criteria (Part III, subsection 38.3.5)

Test Summary configuration: 14-1668 C.1		Test report reference (ID) [d]: SDU/CER/JG 14-1667	
Summary issued for item: <input checked="" type="checkbox"/> Lithium battery <input type="checkbox"/> Product with lithium battery		Test report date [e]: 24/06/2014	
Tested P/N [f](v): 775301, 774166-00 C Qualified type P/N [f](v): 774166-00 C		Test Laboratory [c]:	
Same family qualified P/N (according to 38.3.2.2) [f](v): <b>774166-XX (*)</b>  (* ) with XX a numerical identifier		EMITECH 171 Rue du Pont Neuf, 16600 Ruelle-sur-Touvre, France e-mail address <a href="https://www.emitech.fr/fr/">https://www.emitech.fr/fr/</a>	Saft 111 boulevard Alfred Daney 33074 BORDEAUX, FRANCE T. + (33) 5 57 10 74 00 e-mail address <a href="https://www.saftbatteries.com/">https://www.saftbatteries.com/</a>
Manufacturer [b] Saft Ferak a.s., Raškovice 247, 739 04 Pražmo, Czech Republic Tel.: +420 558 426 111, Web: <a href="http://www.saft-ferak.cz">www.saft-ferak.cz</a>			
Battery description UN identification: UN3480, lithium-ion battery Technology [f](i): <b>lithium ion</b> Mass [f](ii): <b>71kg</b> Watt hour rating [f](iii): <b>3788Wh</b> Physical description [f](iv): Rechargeable lithium-ion battery assembled with 2 modules composed of 7 serial strings of 2xVL41M-Fe cells in parallel (2P7S) <b>BTR-0023V-VL41M-SFP-002M</b>			
List of Tests Conducted [g]: the following tests were performed and passed			
T.1: Altitude simulation	4 modules	T.5: External short circuit	1 battery + 4 modules
T.2: Thermal test	4 modules	T.6: Impact/Crush (cell test)	5 cells
T.3: Vibration	1 battery + 4 modules	T.7: Overcharge	1 battery
T.4: Shock	1 battery + 4 modules	T.8: Forced discharge (cell test)	10+10 cells
Test strategy: <input type="checkbox"/> Cell <input type="checkbox"/> Battery <input checked="" type="checkbox"/> Assembly of batteries 38.3.3 (f) [h] <input type="checkbox"/> Assembly of batteries 38.3.3 (g) [h] <input type="checkbox"/> Cargo transport unit			
UN Manual of Tests and Criteria edition [i] : 5th revised edition & Amendment 1			
Additional data Similarity analysis (according to 38.3.2.2): <b>SDU/CER/JG 14-3013</b>			
Signatory [j] Date: 2020.01.20		Signatory [j] Date: 2020.01.16	
Name: Thierry COURPOTIN		Name: Philippe BERMIS	
Title: Technical Leader		Title: Transport Regulation & Local Product Safety Mgr	
Signature. 		Signature. 	
			
<b>Important!</b> 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 <u>confidential information</u> and is available to competent State authorities with valid identification only upon formal request. Requests for the original test data from other parties will be considered by Saft and may require an exchange of our nondisclosure agreement prior to the original test data being made available should Saft consider the request is with merit.			