



CERTIFICATE OF TEST

Test reference	12D19-0022 (proposal reference 113220)	Page 1 of 11
Date	02 March 2012	
Client	Contrec Manufacturing (UK) Ltd	
Contact	Craig Naylor	
Background	Contrec Manufacturing (UK) Ltd ('Contrec') distributes electronic display instruments containing primary lithium battery packs, manufactured in Australia. These are distributed globally, both within equipment and as spare packs. Contrec wishes to have the battery fully tested against section 38.3 of the Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria (MTC), in order to transport the battery by road or air.	
Objective	To test a battery pack against the requirements of chapter 38.3 of the Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria (MTC).	
Scope	The Contrec battery pack is defined as a small primary battery. The applicable tests defined in chapter 38.3 of the MTC are T1 (altitude), T2 (thermal), T3 (vibration), T4 (shock) and T5 (external short circuit).	
Test samples	A set of 8 batteries were submitted for test, 4 in undischarged state and 4 in fully discharged state, as described in Table 1 below. Photographs showing the batteries and test undertaken are presented in Appendix A.	
Date of receipt	19 January 2012	
Dates of test	25 January 2012 to 26 February 2012	
Pre-test conditioning	None required	
Test conditions	23°C, 50% rh except where stated otherwise	