



9 September 2022

Wipe Test Report

Prepared for: Huracan Pty Ltd Address: PO Box 1070, Roma QLD 4455						
Contact: Jon Hollingworth		Count Time: 360 Seconds			Instrument: LUDLUM 3000 SN 25019721 Probe: 44-9 SN PR388737 Cal Due:15/01/2023	
Wipe ID	Source	Gross Count	Nett count	Activity * Bq	Detection Limit	Source Serial No.
1	Cs ¹³⁷	234	7	0.4	2.8	G0090-18
Background Counts:		227				
Location:		Office 40 Burns Street Fernvale Qld 4306				
Time/Date:		09/09/2022 9.38am				
Notes:		* Bq. Activity limit calculated for alpha or beta, depending on source.				
		A nominal 0.1 Bq used for negative nett counts				
Activity Limit:		Estimate of total activity in Bq; Nett cts/(count time*ct efficiency*wipe efficiency)				
Activity Limit: =		Nett cts/(\$E\$2*0.481*0.1) (RED if >>detection limit)				
Wipe efficiency:		0.1 For Radwipes moistened with tap water (assumption)				
Detection Limit:		in Bq. 2 sigma limits used for background + gross count, converted to activity				
Comment:		As wipes are within the statistical limits of background, they are clean				

Comments:

1. This test was conducted in compliance with ISO9978:1992, the activity detected does not exceed 200Bq on the sample as tested, so the source is considered leak tight. The procedures used in this test are compliant with this Standard.
2. Contamination removal efficiency when wipe testing is highly dependent on technique, wipe media, and test surface. Removal efficiency is typically 10-20%. 10% has been used here. If activity is found to be present, even below the limiting value of 200Bq, these factors should be considered when assessing the integrity of the source encapsulation.

Head Office
Telephone: 07 5427 0126
40 Burns Street Fernvale Qld 4306
Postal Address: PO Box 7 Fernvale Qld 4306
Email: office@mckeng.com.au

Mackay Office
Telephone: 0439 622 466
Unit B07 Harbour City Central, Harbour Road Mackay Qld 4740
Postal Address: PO Box 8015 Mount Pleasant Qld 4740
Email: mackay@mckeng.com.au