



hallanalytical

a Crawford Scientific company

CERTIFICATE OF ANALYSIS

Hardware Testing

Tobacco American Red 18mg/ml 1.5ml

Hall Study Reference	HAL17-633-2
Sample Description	Vaping Hardware
Submitting Client	Darren Haley/E-Burn
Client Reference	-
Date of Certificate	23rd November 2017

Sample analysed using validated in-house methodologies.

Metals analysis sub-contracted to a specialist lab.

For the Attention of:

**E-Burn
Botley Mills
Mill Hill
Botley
Southampton
SO30 2GB**

Authorised on behalf of Hall Analytical Laboratories Ltd

N. Ordsmith

Sample Identification – Device

Hall ID	Device	Power
H74340	Tobacco American Red 18mg/ml 1.5ml	N/A

Nicotine Dose Consistency

Dose N ^o	Concentration (mg/puff)
1	0.048
2	0.051
3	0.051
Mean	0.050
SD	0.002
%RSD	3.0

Targeted Carbonyls

Analyte	Concentration (µg/puff)
Formaldehyde	<0.1
Acetaldehyde	<0.1
Acrolein	<0.1
Crotonaldehyde	<0.1
Diacetyl	<0.1
Acetyl prionyl	<0.1

Targeted Metals

Analyte	Concentration (µg/puff)
Aluminium	0.0203
Arsenic	<0.0003
Cadmium	<0.0001
Chromium	<0.0017
Copper	<0.0011
Iron	<0.0016
Lead	<0.0038
Mercury	<0.0003
Nickel	<0.0013
Tin	<0.0011

Note on Reporting Units

Due to the varying amounts of the different analytes observed, the most appropriate reporting units have been chosen pertinent to each analysis.

For clarification;

1g ≡ 1000mg

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Where a value is reported as less than a specified value ('<'), the result obtained was below the method Limit of Detection (LOD) or Limit of Quantitation (LOQ).