

LABORATORY ANALYSIS REPORT

DETERMINATION OF AMBIENT AIR VOLATILE ORGANIC COMPOUNDS IN DIFFUSION TUBES BY THERMAL DESORPTION / GAS CHROMATOGRAPHY

Report number Y2266R1
Booking in reference no Y2266
Despatch note no SOR013139
Customer Ricardo-AEA Ltd
The Gemini Building, Fermi Avenue, Harwell
Oxfordshire, OX11 0QR
Date samples received 01-Aug

Location	Tube no	Date exposed	Date finished	Exposure hours	BTEX				
					Benzene	Toluene	Ethyl Benzene	mp-Xylene	o-Xylene
Values Reported in Parts per Billion (p.p.b.) in Air *									
Whittles	10464	02-07-13	09-07-13	168.00	9.24	5.56	4.63	1.10	0.94
Trusty Boats	10521	02-07-13	09-07-13	168.00	3.16	2.07	1.31	0.42	0.48
Ready Print	5124	02-07-13	09-07-13	168.00	2.74	1.53	1.00	0.43	0.28
WFCH	1758	02-07-13	09-07-13	168.00	2.16	1.57	1.15	0.47	0.31
Whittles	2118	09-07-13	18-07-13	218.17	0.59	0.66	0.28	0.25	0.19
Trusty Boats	10473	09-07-13	18-07-13	218.33	5.53	2.83	2.14	0.52	0.53
Ready Print	4365	09-07-13	18-07-13	218.25	1.65	1.19	0.85	0.31	0.29
WFCH	4320	09-07-13	18-07-13	217.50	0.54	0.53	0.25	0.20	<0.16
Whittles	2302	18-07-13	26-07-13	191.92	5.66	2.96	2.05	0.53	0.48
Trusty Boats	5904	18-07-13	26-07-13	191.80	0.38	0.65	0.27	0.25	<0.18
Ready Print	6513	18-07-13	26-07-13	191.50	2.88	1.77	1.23	0.54	0.25
WFCH	9212	18-07-13	26-07-13	191.87	3.23	2.33	1.52	0.79	0.50
Travel Blank	9826			218.33	<0.25	0.26	0.35	0.33	0.20
Lab Blank				218.33	0.05	0.02	0.03	0.03	0.01

(RESULTS ARE BLANK CORRECTED)

<means below the reporting limit (limit of detection).

The reporting limit is 0.16ppb for o-Xylene at 217 hours.

The reporting limit is 0.18ppb for o-Xylene at 191 hours.

The reporting limit is 0.25ppb for Benzene at 218 hours.

Results are lab blank corrected due to high travel blank.

Weeks exposed	1	Uptake rates (ng.ppm ⁻¹ min ⁻¹)	1.52	2.05	2.42	2.42	2.42
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Overall M.U. ±9.6% Reporting Limit 5ng on tube

The Diffusion Tubes have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures calculations and assessments involving the exposure procedures and periods provided by the client are not within the scope of our UKAS accreditation. Those results obtained using exposure data shall be indicated by an asterisk. Any queries concerning the data in this report should be directed to the Laboratory Manager Gradko International Ltd. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of these results
Signed.....*L. Gates*.....
L. Gates, Laboratory Supervisor

St. Martins House, 77 Wales Street Winchester, Hampshire SO23 0RH
tel.: 01962 860331 fax: 01962 841339 e-mail:diffusion@gradko.co.uk

LABORATORY ANALYSIS REPORT

Analyst signature		Analyst name	J. Jacek
Date of analysis	08-08-13	Date of report	14-08-13

The analysis has been carried out in accordance with in-house method GLM4

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L. Gates, Laboratory Supervisor