

LABORATORY ANALYSIS REPORT

Report Number N04639R
Customer SIA Estonian. Latvian & Lithuanian
Vilandes iela 3
Dz.6
Riga
Latvija, LV-1010
Booking In Reference T0780
Despatch Note Number 72576
Date Samples Received 26/06/2019
Diffusion Tube Type Tenax

Identification and estimation of ng on tube in accordance with ISO16000-6

Index to UKAS Accreditation Status

U	Analysis is UKAS accredited under our Fixed Scope
F	Analysis is UKAS accredited under our Flexible Scope
N	Analysis is not UKAS accredited

Tube Number	GRA11842			
Gradko Lab Reference	04N0506			
Exposure Time(mins)	20300			
Sample ID	63			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzaldehyde**	U	11	0.3	1.2

Tube Number	001738			
Gradko Lab Reference	04N0507			
Exposure Time(mins)	20300			
Sample ID	66			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzoic acid	N	189	4.7	22.7
2,6-Diphenyl-p-benzoquinone	N	123	3.0	31.6
Acetophenone**	U	40	1.0	4.7
Benzaldehyde**	U	33	0.8	3.5
Benzenecarbothioic acid	N	27	0.7	3.7
Phenylmaleic anhydride	U	26	0.6	4.5
Acetic acid	U	17	0.4	1.0
Nonanal**	N	14	0.3	1.9
Phenol	U	10	0.3	0.9

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

LABORATORY ANALYSIS REPORT

Tube Number 003376
Gradko Lab Reference 04N0508
Exposure Time(mins) 20300
Sample ID 100

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	304	7.5	77.9
Benzoic acid	N	212	5.2	25.5
Benzaldehyde**	U	41	1.0	4.2
Acetophenone**	U	39	1.0	4.7
Pentadecane	U	32	0.8	6.6
Nonanal**	N	28	0.7	3.9
Phenylmaleic anhydride	U	27	0.7	4.7
Decanal**	N	26	0.6	4.0
Benzenecarbothioic acid	N	26	0.6	3.5
Acetic acid	U	14	0.3	0.8
Hexanoic acid, 3,5,5-trimethyl-	N	12	0.3	1.9
Phenol	U	11	0.3	1.0
Benzoylformic acid	N	10	0.3	1.5

Tube Number GRA02892
Gradko Lab Reference 04N0509
Exposure Time(mins) 20285
Sample ID 52

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	107	2.6	27.3
Benzoic acid	N	79	1.9	9.5
Benzaldehyde**	U	31	0.8	3.2
Acetophenone**	U	23	0.6	2.7
Nonanal**	N	20	0.5	2.8
Acetic acid	U	19	0.5	1.1
Phenylmaleic anhydride	U	16	0.4	2.8
Decanal**	N	14	0.3	2.1
Phenol	U	11	0.3	1.0
Benzenecarbothioic acid	N	10	0.3	1.4

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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, Laboratory Manager

LABORATORY ANALYSIS REPORT

Tube Number	GRA04656			
Gradko Lab Reference	04N0510			
Exposure Time(mins)	20280			
Sample ID	46			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzoic acid	N	87	2.2	10.5
2,6-Diphenyl-p-benzoquinone	N	72	1.8	18.5
Acetic acid	U	32	0.8	1.9
Benzaldehyde**	U	31	0.8	3.3
Acetophenone**	U	24	0.6	2.8
Pentane, 3-methyl-	U	23	0.6	1.9
Nonanal**	N	18	0.4	2.5
1,3-Dioxolane, 2-methyl-	N	17	0.4	1.5
Phenylmaleic anhydride	U	15	0.4	2.6
Hexane	U	15	0.4	1.3
Toluene	U	12	0.3	1.1
Phenol	U	11	0.3	1.0

Tube Number	GRA11319			
Gradko Lab Reference	04N0511			
Exposure Time(mins)	20280			
Sample ID	37			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzoic acid	N	45	1.1	5.4
2,6-Diphenyl-p-benzoquinone	N	34	0.8	8.8
Benzaldehyde**	U	20	0.5	2.1
Acetophenone**	U	15	0.4	1.8
Nonanal**	N	11	0.3	1.5

Tube Number	003387			
Gradko Lab Reference	04N0512			
Exposure Time(mins)	20280			
Sample ID	81			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzoic acid	N	174	4.3	20.9
2,6-Diphenyl-p-benzoquinone	N	85	2.1	21.8
Hexanoic acid, 3,5,5-trimethyl-	N	38	0.9	5.9
Acetophenone**	U	34	0.8	4.0
Benzaldehyde**	U	31	0.8	3.2

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Nonanal**	N	22	0.5	3.1
Phenylmaleic anhydride	U	22	0.5	3.8
Benzenecarbothioic acid	N	20	0.5	2.8
Acetic acid	U	19	0.5	1.1

Tube Number 001656
Gradko Lab Reference 04N0513
Exposure Time(mins) 20290
Sample ID 36

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Tetracosane	U	199	4.9	66.4
Benzoic acid	N	180	4.4	21.6
2,6-Diphenyl-p-benzoquinone	N	114	2.8	29.3
Heneicosane	U	53	1.3	15.4
Acetic acid	U	44	1.1	2.6
Benzaldehyde**	U	31	0.8	3.3
Acetophenone**	U	31	0.8	3.7
Pentane, 3-methyl-	U	29	0.7	2.4
Phenylmaleic anhydride	U	24	0.6	4.1
Benzenecarbothioic acid	N	20	0.5	2.7
Hexane	U	18	0.4	1.5
Cyclohexane	U	18	0.4	1.5
Decanal**	N	15	0.4	2.3
Nonanal**	N	15	0.4	2.0
Butane, 2-methyl-	U	13	0.3	0.9
Toluene	U	12	0.3	1.1
Phenol	U	11	0.3	1.0

Tube Number 001847
Gradko Lab Reference 04N0514
Exposure Time(mins) 20255
Sample ID 32

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	175	4.3	45.0
Benzoic acid	N	109	2.7	13.1
Benzaldehyde**	U	28	0.7	2.9
Acetophenone**	U	25	0.6	3.0
Acetic acid	U	19	0.5	1.1

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Phenylmaleic anhydride	U	18	0.4	3.1
Benzenecarbothioic acid	N	12	0.3	1.7
Nonanal**	N	11	0.3	1.5
Toluene	U	10	0.3	0.9

Tube Number 003343
Gradko Lab Reference 04N0515
Exposure Time(mins) 20260
Sample ID 43

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Benzoic acid	N	193	4.8	23.2
2,6-Diphenyl-p-benzoquinone	N	168	4.1	43.0
Acetophenone**	U	36	0.9	4.2
Benzaldehyde**	U	33	0.8	3.4
Phenylmaleic anhydride	U	27	0.7	4.7
Benzenecarbothioic acid	N	24	0.6	3.2
Phenol	U	12	0.3	1.1
Nonanal**	N	11	0.3	1.6
Acetic acid	U	11	0.3	0.7

Tube Number 003562
Gradko Lab Reference 04N0516
Exposure Time(mins) 20255
Sample ID 44

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	196	4.8	50.4
Benzoic acid	N	178	4.4	21.4
Acetophenone**	U	32	0.8	3.8
Benzaldehyde**	U	32	0.8	3.3
Phenylmaleic anhydride	U	25	0.6	4.3
Benzenecarbothioic acid	N	20	0.5	2.7
Acetic acid	U	14	0.3	0.8
Nonanal**	N	13	0.3	1.8
Phenol	U	12	0.3	1.1
Benzoylformic acid	N	11	0.3	1.6
Decanal**	N	10	0.2	1.6

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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, Laboratory Manager

LABORATORY ANALYSIS REPORT

Tube Number	001813			
Gradko Lab Reference	04N0517			
Exposure Time(mins)	20260			
Sample ID	50			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzoic acid	N	288	7.1	34.6
2,6-Diphenyl-p-benzoquinone	N	234	5.8	60.0
Benzaldehyde**	U	35	0.9	3.6
Phenylmaleic anhydride	U	35	0.9	5.9
Benzenecarbothioic acid	N	34	0.8	4.6
Decanal**	N	15	0.4	2.4
Benzoylformic acid	N	15	0.4	2.2
Phenol	U	14	0.3	1.3
Nonanal**	N	13	0.3	1.8

Tube Number	003307			
Gradko Lab Reference	04N0518			
Exposure Time(mins)	20270			
Sample ID	54			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzoic acid	N	274	6.7	32.9
2,6-Diphenyl-p-benzoquinone	N	253	6.2	64.9
Acetophenone**	U	41	1.0	4.8
Benzaldehyde**	U	35	0.9	3.7
Phenylmaleic anhydride	U	35	0.9	6.1
Benzenecarbothioic acid	N	29	0.7	4.0
Benzoylformic acid	N	17	0.4	2.5
Acetic acid	U	14	0.3	0.8
Nonanal**	N	14	0.3	1.9
Phenol	U	11	0.3	1.1
Decanal**	N	11	0.3	1.7

Tube Number	GRA10379			
Gradko Lab Reference	04N0519			
Exposure Time(mins)	20270			
Sample ID	54 -a			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzaldehyde**	U	15	0.4	1.6

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N04639R

Page 6 of 18

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number Mi036554
Gradko Lab Reference 04N0520
Exposure Time(mins) 20245
Sample ID 47

Compounds	Accreditation Status	Estimated	ppb in air*	µgm ⁻³ *
		ng on tube		
2,6-Diphenyl-p-benzoquinone	N	165	4.1	42.4
Benzoic acid	N	149	3.7	17.9
Benzaldehyde**	U	29	0.7	3.0
Acetophenone**	U	28	0.7	3.3
Phenylmaleic anhydride	U	20	0.5	3.4
Benzenecarbothioic acid	N	17	0.4	2.4
m/p-Xylene	U	13	0.3	1.4

Tube Number 003566
Gradko Lab Reference 04N0521
Exposure Time(mins) 20225
Sample ID 84

Compounds	Accreditation Status	Estimated	ppb in air*	µgm ⁻³ *
		ng on tube		
Benzoic acid	N	195	4.8	23.6
2,6-Diphenyl-p-benzoquinone	N	165	4.1	42.5
Pentane, 2-methyl-	U	41	1.0	3.5
Acetophenone**	U	39	1.0	4.7
Benzaldehyde**	U	39	1.0	4.1
Pentane, 3-methyl-	U	37	0.9	3.1
Phenylmaleic anhydride	U	29	0.7	4.9
Nonanal**	N	28	0.7	3.9
Hexane	U	27	0.7	2.3
Benzenecarbothioic acid	N	25	0.6	3.4
Toluene	U	19	0.5	1.7
Phenol	U	18	0.4	1.7
Decanal**	N	15	0.4	2.3
m/p-Xylene	U	14	0.4	1.5
1-Hexanol, 2-ethyl-	U	12	0.3	1.6
Cyclopentane, methyl-	N	12	0.3	1.0
Benzoylformic acid	N	10	0.2	1.5

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N04639R

Page 7 of 18

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number	GRA09672			
Gradko Lab Reference	04N0522			
Exposure Time(mins)	20245			
Sample ID	58			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzoic acid	N	199	4.9	24.0
2,6-Diphenyl-p-benzoquinone	N	181	4.5	46.4
Benzaldehyde**	U	41	1.0	4.3
Acetophenone**	U	39	1.0	4.6
Decanal**	N	33	0.8	5.0
Phenylmaleic anhydride	U	31	0.8	5.2
Nonanal**	N	27	0.7	3.8
Benzenecarbothioic acid	N	24	0.6	3.2
Acetic acid	U	14	0.3	0.8
Phenol	U	13	0.3	1.2
Dibutyl phthalate	U	13	0.3	3.4
Benzoylformic acid	N	12	0.3	1.8

Tube Number	GRA10682			
Gradko Lab Reference	04N0523			
Exposure Time(mins)	20245			
Sample ID	61			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
2,6-Diphenyl-p-benzoquinone	N	111	2.7	28.5
Benzoic acid	N	43	1.1	5.2
Benzaldehyde**	U	26	0.6	2.7
Acetophenone**	U	22	0.5	2.6
Pentane, 2-methyl-	U	22	0.5	1.8
Pentane, 3-methyl-	U	16	0.4	1.4
Decanal**	N	16	0.4	2.5
Nonanal**	N	14	0.3	2.0
Hexane	U	13	0.3	1.1
Hexanoic acid, 3,5,5-trimethyl-	N	12	0.3	1.9

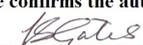
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number **N04639R**

Page 8 of 18

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number	GRA09343			
Gradko Lab Reference	04N0524			
Exposure Time(mins)	20245			
Sample ID	57			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzoic acid	N	114	2.8	13.7
2,6-Diphenyl-p-benzoquinone	N	95	2.4	24.5
Hexanoic acid, 3,5,5-trimethyl-	N	29	0.7	4.6
Benzaldehyde**	U	25	0.6	2.6
Acetophenone**	U	24	0.6	2.8
Nonanal**	N	16	0.4	2.3
Phenylmaleic anhydride	U	16	0.4	2.8
Acetic acid	U	16	0.4	1.0
m/p-Xylene	U	15	0.4	1.6
Dibutyl phthalate	U	14	0.3	3.9
Benzenecarbothioic acid	N	12	0.3	1.7

Tube Number	003370			
Gradko Lab Reference	04N0525			
Exposure Time(mins)	20250			
Sample ID	53			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzoic acid	N	230	5.7	27.8
2,6-Diphenyl-p-benzoquinone	N	186	4.6	47.8
Hexanoic acid, 3,5,5-trimethyl-	N	43	1.1	6.8
Benzaldehyde**	U	42	1.0	4.4
Nonanal**	N	34	0.8	4.8
Acetic acid	U	34	0.8	2.0
Acetophenone**	U	33	0.8	3.9
Phenylmaleic anhydride	U	24	0.6	4.2
Benzenecarbothioic acid	N	21	0.5	2.8
Phenol	U	16	0.4	1.5
m/p-Xylene	U	15	0.4	1.6
Dibutyl phthalate	U	15	0.4	4.0
Diethyl phthalate	U	14	0.4	3.1
Benzoylformic acid	N	13	0.3	2.0
Decanal**	N	13	0.3	2.0
Oxime-, methoxy-phenyl-_	N	12	0.3	1.8
Toluene	U	11	0.3	1.0

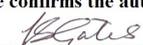
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N04639R

Page 9 of 18

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number	003394			
Gradko Lab Reference	04N0526			
Exposure Time(mins)	20250			
Sample ID	41			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
2,6-Diphenyl-p-benzoquinone	N	406	10.0	104.1
Benzoic acid	N	199	4.9	23.9
Benzaldehyde**	U	41	1.0	4.3
Acetophenone**	U	35	0.9	4.1
Phenylmaleic anhydride	U	27	0.7	4.6
Acetic acid	U	20	0.5	1.2
Benzenecarbothioic acid	N	19	0.5	2.6
Phenol	U	13	0.3	1.2
Oxime-, methoxy-phenyl-_	N	12	0.3	1.8
Dibutyl phthalate	U	12	0.3	3.2

Tube Number	003577			
Gradko Lab Reference	04N0527			
Exposure Time(mins)	20245			
Sample ID	42			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
2,6-Diphenyl-p-benzoquinone	N	284	7.0	73.0
Benzoic acid	N	212	5.2	25.5
Benzaldehyde**	U	35	0.9	3.7
Acetophenone**	U	32	0.8	3.8
Phenylmaleic anhydride	U	29	0.7	5.0
Acetic acid	U	22	0.5	1.3
Benzenecarbothioic acid	N	20	0.5	2.7
Dibutyl phthalate	U	15	0.4	4.0
Nonanal**	N	14	0.3	2.0
Phenol	U	13	0.3	1.2
Benzoylformic acid	N	12	0.3	1.8
Ethanol, 2-phenoxy-	N	11	0.3	1.4

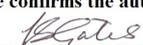
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N04639R

Page 10 of 18

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number 003383
Gradko Lab Reference 04N0528
Exposure Time(mins) 20250
Sample ID 35

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	444	11.0	114.1
Benzoic acid	N	187	4.6	22.5
Benzaldehyde**	U	35	0.9	3.7
Acetophenone**	U	31	0.8	3.7
Pentadecane	U	26	0.6	5.5
Phenylmaleic anhydride	U	23	0.6	3.9
Benzenecarbothioic acid	N	19	0.5	2.6
Acetic acid	U	16	0.4	1.0
Dibutyl phthalate	U	12	0.3	3.3
Nonanal**	N	11	0.3	1.5

Tube Number 003569
Gradko Lab Reference 04N0529
Exposure Time(mins) 20240
Sample ID 30

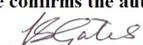
Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	269	6.6	69.0
Benzoic acid	N	238	5.9	28.7
Benzaldehyde**	U	38	0.9	3.9
Acetophenone**	U	36	0.9	4.2
Phenylmaleic anhydride	U	31	0.8	5.2
Benzenecarbothioic acid	N	24	0.6	3.3
Acetic acid	U	23	0.6	1.3
Benzoylformic acid	N	11	0.3	1.7
Phenol	U	11	0.3	1.0

Tube Number GRA10500
Gradko Lab Reference 04N0530
Exposure Time(mins) 20245
Sample ID 31

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	54	1.3	13.8
Acetic acid	U	28	0.7	1.7
Benzaldehyde**	U	26	0.6	2.7

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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, Laboratory Manager

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Benzoic acid	N	19	0.5	2.3
Pentane, 3-methyl-	U	18	0.4	1.5
Acetophenone**	U	14	0.3	1.7
Hexane	U	12	0.3	1.0
Nonanal**	N	10	0.2	1.4

Tube Number GRA11097
Gradko Lab Reference 04N0531
Exposure Time(mins) 20135
Sample ID 101

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	301	7.5	77.6
Benzoic acid	N	104	2.6	12.7
Benzaldehyde**	U	33	0.8	3.5
Acetophenone**	U	25	0.6	3.0
Acetic acid	U	25	0.6	1.5
Nonanal**	N	16	0.4	2.2
Pentane, 3-methyl-	U	13	0.3	1.1
Phenylmaleic anhydride	U	13	0.3	2.2
Decanal**	N	12	0.3	1.8
m/p-Xylene	U	12	0.3	1.2
Phenol	U	11	0.3	1.0

Tube Number 003363
Gradko Lab Reference 04N0532
Exposure Time(mins) 20145
Sample ID 33

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	349	8.7	90.2
Benzoic acid	N	155	3.9	18.8
Benzaldehyde**	U	34	0.8	3.5
Acetophenone**	U	30	0.7	3.5
Phenylmaleic anhydride	U	21	0.5	3.7
Hexanoic acid, 3,5,5-trimethyl-	N	21	0.5	3.2
Acetic acid	U	15	0.4	0.9
Benzenecarbothioic acid	N	13	0.3	1.8
Dibutyl phthalate	U	12	0.3	3.2
Phenol	U	12	0.3	1.1

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

LABORATORY ANALYSIS REPORT

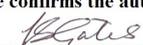
Tube Number	003366			
Gradko Lab Reference	04N0533			
Exposure Time(mins)	20150			
Sample ID	29			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzoic acid	N	208	5.2	25.2
2,6-Diphenyl-p-benzoquinone	N	187	4.6	48.2
Acetophenone**	U	36	0.9	4.3
Benzaldehyde**	U	33	0.8	3.5
Phenylmaleic anhydride	U	24	0.6	4.2
Benzenecarbothioic acid	N	20	0.5	2.8
Phenol	U	13	0.3	1.2
Acetic acid	U	13	0.3	0.7
Nonanal**	N	11	0.3	1.5

Tube Number	GRA10753			
Gradko Lab Reference	04N0534			
Exposure Time(mins)	20155			
Sample ID	28			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzaldehyde**	U	20	0.5	2.1
m/p-Xylene	U	11	0.3	1.1
Acetic acid	U	11	0.3	0.6
Acetophenone**	U	10	0.2	1.2

Tube Number	003578			
Gradko Lab Reference	04N0535			
Exposure Time(mins)	20160			
Sample ID	25			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
2,6-Diphenyl-p-benzoquinone	N	269	6.7	69.3
Benzoic acid	N	162	4.0	19.6
Acetic acid	U	43	1.1	2.6
Benzaldehyde**	U	34	0.8	3.5
Acetophenone**	U	31	0.8	3.6
Phenylmaleic anhydride	U	22	0.5	3.8
Benzenecarbothioic acid	N	18	0.4	2.5
Phenol	U	12	0.3	1.1
Nonanal**	N	11	0.3	1.6

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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, Laboratory Manager

LABORATORY ANALYSIS REPORT

Tube Number	GRA10442			
Gradko Lab Reference	04N0536			
Exposure Time(mins)	20145			
Sample ID	27			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
2,6-Diphenyl-p-benzoquinone	N	173	4.3	44.6
Benzoic acid	N	90	2.2	10.9
Benzaldehyde**	U	28	0.7	2.9
Acetophenone**	U	23	0.6	2.7
Acetic acid	U	12	0.3	0.7
Phenylmaleic anhydride	U	12	0.3	2.0
Benzenecarbothioic acid	N	11	0.3	1.5

Tube Number	GRA10845			
Gradko Lab Reference	04N0537			
Exposure Time(mins)	20160			
Sample ID	23			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
2,6-Diphenyl-p-benzoquinone	N	170	4.2	43.8
Benzoic acid	N	153	3.8	18.5
Benzaldehyde**	U	42	1.0	4.4
Acetophenone**	U	26	0.6	3.1
m/p-Xylene	U	22	0.5	2.3
Acetic acid	U	21	0.5	1.3
Hexanoic acid, 3,5,5-trimethyl-	N	19	0.5	3.0
Phenylmaleic anhydride	U	19	0.5	3.3
Benzenecarbothioic acid	N	15	0.4	2.0
Phenol	U	12	0.3	1.1

Tube Number	GRA11928			
Gradko Lab Reference	04N0538			
Exposure Time(mins)	20155			
Sample ID	19			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
2,6-Diphenyl-p-benzoquinone	N	148	3.7	38.1
Benzoic acid	N	105	2.6	12.7
Benzaldehyde**	U	26	0.7	2.8
Acetophenone**	U	25	0.6	2.9
m/p-Xylene	U	14	0.4	1.5

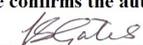
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N04639R

Page 14 of 18

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Benzenecarbothioic acid	N	14	0.3	1.9
Acetic acid	U	13	0.3	0.8
Phenylmaleic anhydride	U	13	0.3	2.2

Tube Number GRA07165
Gradko Lab Reference 04N0539
Exposure Time(mins) 20155
Sample ID 12

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	120	3.0	31.0
Benzoic acid	N	98	2.4	11.9
Benzaldehyde**	U	30	0.7	3.1
Acetophenone**	U	29	0.7	3.5
Benzenecarbothioic acid	N	16	0.4	2.2
Phenylmaleic anhydride	U	15	0.4	2.6
Acetic acid	U	14	0.4	0.8
Phenol	U	11	0.3	1.0

Tube Number Mi063564
Gradko Lab Reference 04N0540
Exposure Time(mins) 20150
Sample ID 75

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Benzaldehyde**	U	14	0.4	1.5
Nonanal**	N	12	0.3	1.7

Tube Number GRA03613
Gradko Lab Reference 04N0541
Exposure Time(mins) 20155
Sample ID 14

Compounds	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	110	2.7	28.5
Benzoic acid	N	95	2.4	11.5
Benzaldehyde**	U	32	0.8	3.4
Acetic acid	U	26	0.6	1.5
Acetophenone**	U	21	0.5	2.5
Phenylmaleic anhydride	U	16	0.4	2.7
Benzenecarbothioic acid	N	12	0.3	1.6

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

LABORATORY ANALYSIS REPORT

Tube Number	003345			
Gradko Lab Reference	04N0542			
Exposure Time(mins)	20100			
Sample ID	24			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
2,6-Diphenyl-p-benzoquinone	N	223	5.5	57.7
Benzoic acid	N	176	4.4	21.3
Acetic acid	U	48	1.2	2.9
Benzaldehyde**	U	36	0.9	3.8
Acetophenone**	U	32	0.8	3.8
Phenylmaleic anhydride	U	25	0.6	4.4
Pentane, 3-methyl-	U	22	0.6	1.9
Hexane	U	18	0.5	1.6
Benzenecarbothioic acid	N	16	0.4	2.2
Nonanal**	N	16	0.4	2.2
Phenol	U	13	0.3	1.2
Oxime-, methoxy-phenyl-__	N	13	0.3	1.9
Heptane, 2,2,4,6,6-pentamethyl-	N	10	0.3	1.7
Decanal**	N	10	0.3	1.6

Tube Number	GRA03012			
Gradko Lab Reference	04N0547			
Exposure Time(mins)	20170			
Sample ID	22			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Acetic acid	U	23	0.6	1.3
Benzaldehyde**	U	19	0.5	2.0
Pentane, 3-methyl-	U	14	0.3	1.2

Tube Number	GRA02819			
Gradko Lab Reference	04N0543			
Exposure Time(mins)	20165			
Sample ID	20			
	Accreditation	Estimated		
Compounds	Status	ng on tube	ppb in air*	µgm⁻³*
Benzaldehyde**	U	16	0.4	1.6

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N04639R

Page 16 of 18

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number	GRA04475			
Gradko Lab Reference	04N0544			
Exposure Time(mins)	20100			
Sample ID	15			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Compounds				
2,6-Diphenyl-p-benzoquinone	N	120	3.0	31.0
Benzoic acid	N	103	2.6	12.4
Benzaldehyde**	U	32	0.8	3.4
Acetophenone**	U	22	0.5	2.6
Phenylmaleic anhydride	U	15	0.4	2.5
Acetic acid	U	14	0.4	0.9
Nonanal**	N	12	0.3	1.7
Phenol	U	11	0.3	1.0

Tube Number	GRA09449			
Gradko Lab Reference	04N0545			
Exposure Time(mins)	20105			
Sample ID	16			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Compounds				
Benzoic acid	N	139	3.5	16.9
2,6-Diphenyl-p-benzoquinone	N	122	3.0	31.5
Benzaldehyde**	U	36	0.9	3.8
Acetic acid	U	27	0.7	1.6
Acetophenone**	U	23	0.6	2.8
Phenylmaleic anhydride	U	21	0.5	3.6
Benzenecarbothioic acid	N	13	0.3	1.8
Phenol	U	12	0.3	1.1

Tube Number	GRA10206			
Gradko Lab Reference	04N0546			
Exposure Time(mins)	20160			
Sample ID	0 (Control)			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Compounds				
Hexanoic acid, 3,5,5-trimethyl-	N	32	0.8	5.0
Nonanal**	N	15	0.4	2.0
Benzoic acid	N	11	0.3	1.4

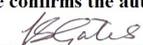
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N04639R

Page 17 of 18

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number **GRA06751**
Gradko Lab Reference **190708_TXTABLANK_10**
Sample ID **Laboratory Blank**

All Compounds below 10ng

Results are not Blank corrected.

Estimated results as ng on tube are calculated by reference to toluene in accordance with ISO 16000-6

2,6-Diphenyl-p-benzoquinone is not present in mass spectrum libraries. It has been tentatively identified by comparison of the mass spectrum and retention times of the standard 2,5-Diphenyl-p-benzoquinone. 2,6-Diphenyl-p-benzoquinone may be an artifact due to degradation of Tenax by nitrogen dioxide.

**Compounds may be an artifact due to reaction of ozone with the Tenax sorbent.
Acetic Acid may be an artifact due to the breakdown of Tenax sorbent.

UPTAKE RATES

All Compounds 2.00ng.ppm⁻¹.min⁻¹

Analysts Name	Katya Paldamova	Date of Analysis	08/07/2019
Report Checked By	Gavin Aikman	Date of Report	10/07/2019

Analysis has been carried out in accordance with in-house method GLM 13

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number **N04639R**

Page 18 of 18

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Report Number N05745R
Customer SIA Estonian. Latvian & Lithuanian
Vilandes iela 3
Dz.6
Riga
Latvija, LV-1010
Booking In Reference T1008
Despatch Note Number 73023
Date Samples Received 06/08/2019
Diffusion Tube Type Tenax

Identification and estimation of ng on tube in accordance with ISO16000-6

Index to UKAS Accreditation Status

U	Analysis is UKAS accredited under our Fixed Scope
F	Analysis is UKAS accredited under our Flexible Scope
N	Analysis is not UKAS accredited

Tube Number GRA07295
Gradko Lab Reference 04N0762
Exposure Time(mins) 20180
Sample ID 92

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
Acetic acid	U	32	0.8	1.9
Benzoic acid	N	23	0.6	2.8
Benzaldehyde**	U	19	0.5	2.0
Acetophenone**	U	14	0.3	1.6
Butane, 2-methyl-	U	11	0.3	0.7
1,3,5-Trifluorobenzene	N	7	0.2	1.0
Nonanal**	N	7	0.2	1.0
Phenol	U	6	0.2	0.6
Benzene	U	6	0.1	0.4
Toluene	U	5	0.1	0.5
Decanal**	N	<5	<0.1	<0.8
alpha-Pinene	U	<5	<0.1	<0.7
Benzenecarbothioic acid	N	<5	<0.1	<0.7
Phenylmaleic anhydride	U	<5	<0.1	<0.9
Dibutyl phthalate	U	<5	<0.1	<1.4
Cyclohexane, isocyanato-	N	<5	<0.1	<0.6
Benzothiazole	N	<5	<0.1	<0.7
Oxime-, methoxy-phenyl-_	N	<5	<0.1	<0.7
Phthalic anhydride	N	<5	<0.1	<0.7
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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, Laboratory Manager

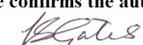
LABORATORY ANALYSIS REPORT

Tube Number	GRA05772			
Gradko Lab Reference	04N0763			
Exposure Time(mins)	20165			
Sample ID	91			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
Tetracosane	U	62	1.5	21
Acetic acid	U	40	1.0	2.4
Toluene	U	26	0.6	2.4
Benzaldehyde**	U	25	0.6	2.6
Butane, 2-methyl-	U	21	0.5	1.5
Benzoic acid	N	18	0.5	2.2
m/p-Xylene	U	18	0.4	1.9
Benzene	U	16	0.4	1.2
Hexane	U	15	0.4	1.3
Pentane, 3-methyl-	U	14	0.3	1.2
Pentane	U	12	0.3	0.9
Octane	U	12	0.3	1.4
Acetophenone**	U	11	0.3	1.3
Cyclohexane, methyl-	U	10	0.2	0.9
Decanal**	N	9	0.2	1.4
Nonanal**	N	9	0.2	1.2
Nonane	U	8	0.2	1.1
Benzene, 1,2,4-trimethyl-	U	8	0.2	1.0
Heptane	U	8	0.2	0.8
Ethylbenzene	U	8	0.2	0.8

Tube Number	GRA09724			
Gradko Lab Reference	04N0764			
Exposure Time(mins)	20150			
Sample ID	90			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
Acetic acid	U	12	0.3	0.7
Hexanal**	N	10	0.2	1.0
Benzaldehyde**	U	8	0.2	0.8
Benzene	U	6	0.1	0.5
Toluene	U	5	0.1	0.5
Butane, 2-methyl-	U	<5	<0.1	<0.4
m/p-Xylene	U	<5	<0.1	<0.5
Dibutyl phthalate	U	<5	<0.1	<1.4
.alpha.-Pinene	U	<5	<0.1	<0.7
Nonanal**	N	<5	<0.1	<0.7

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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, Laboratory Manager
--

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Cyclohexane, isocyanato-	N	<5	<0.1	<0.6
Phenol	U	<5	<0.1	<0.5
1,3,5-Trifluorobenzene	N	<5	<0.1	<0.7
Hexane	U	<5	<0.1	<0.4
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
Acetophenone**	U	<5	<0.1	<0.6
3-Carene	U	<5	<0.1	<0.7
o-Xylene	U	<5	<0.1	<0.5
Formamide, N,N-diethyl-	N	<5	<0.1	<0.5
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8

Tube Number GRA10776
Gradko Lab Reference 04N0765
Exposure Time(mins) 20120
Sample ID 76

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
Butane, 2-methyl-	U	18	0.5	1.3
Benzaldehyde**	U	17	0.4	1.8
Acetic acid	U	15	0.4	0.9
Acetophenone**	U	9	0.2	1.0
Toluene	U	8	0.2	0.7
m/p-Xylene	U	7	0.2	0.7
Benzene	U	7	0.2	0.5
Benzoic acid	N	5	0.1	0.7
Nonanal**	N	<5	<0.1	<0.7
alpha-Pinene	U	<5	<0.1	<0.7
Phenol	U	<5	<0.1	<0.5
Pentane	U	<5	<0.1	<0.4
Benzene, 1,2,4-trimethyl-	U	<5	<0.1	<0.6
Ethylbenzene	U	<5	<0.1	<0.5
Pentane, 3-methyl-	U	<5	<0.1	<0.4
o-Xylene	U	<5	<0.1	<0.5
Octane	U	<5	<0.1	<0.6
Hexanoic acid, 3,5,5-trimethyl-	N	<5	<0.1	<0.8
Heptane	U	<5	<0.1	<0.5
Octanal**	U	<5	<0.1	<0.6

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 3 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number	GRA08821			
Gradko Lab Reference	04N0766			
Exposure Time(mins)	20090			
Sample ID	82			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	52	1.3	13
Benzoic acid	N	38	0.9	4.6
Benzaldehyde**	U	21	0.5	2.2
Butane, 2-methyl-	U	19	0.5	1.3
Acetic acid	U	17	0.4	1.0
Acetophenone**	U	12	0.3	1.4
Nonanal**	N	10	0.2	1.4
Toluene	U	8	0.2	0.8
m/p-Xylene	U	7	0.2	0.8
Phenol	U	7	0.2	0.6
Benzene	U	6	0.1	0.5
Benzothiazole	N	5	0.1	0.7
Decanal**	N	<5	<0.1	<0.8
alpha-Pinene	U	<5	<0.1	<0.7
Benzenecarbothioic acid	N	<5	<0.1	<0.7
Cyclohexane, isocyanato-	N	<5	<0.1	<0.6
o-Xylene	U	<5	<0.1	<0.5
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
Phthalic anhydride	N	<5	<0.1	<0.7
Phenylmaleic anhydride	U	<5	<0.1	<0.9

Tube Number	GRA11364			
Gradko Lab Reference	04N0767			
Exposure Time(mins)	20075			
Sample ID	87			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
Tetracosane	U	62	1.5	21
Butane, 2-methyl-	U	58	1.4	4.1
Toluene	U	16	0.4	1.5
m/p-Xylene	U	15	0.4	1.6
Benzaldehyde**	U	13	0.3	1.4
Benzene	U	13	0.3	1.0
Pentane, 3-methyl-	U	8	0.2	0.7
Pentane	U	8	0.2	0.5
Ethylbenzene	U	6	0.2	0.7
Octane	U	6	0.2	0.7
o-Xylene	U	5	0.1	0.6

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 4 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Benzene, 1,2,4-trimethyl-Hexane	U	5	0.1	0.6
alpha-Pinene	U	<5	<0.1	<0.7
Heptane	U	<5	<0.1	<0.5
Cyclopentane, methyl-	N	<5	<0.1	<0.4
Cyclohexane, methyl-	U	<5	<0.1	<0.5
Hexane, 3-methyl-	U	<5	<0.1	<0.5
Acetophenone**	U	<5	<0.1	<0.6
Cyclohexane, isocyanato-	N	<5	<0.1	<0.6

Tube Number 001832
Gradko Lab Reference 04N0768
Exposure Time(mins) 20055
Sample ID 83

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
Tetracosane	U	95	2.4	32
Benzoic acid	N	43	1.1	5.2
Benzaldehyde**	U	22	0.5	2.3
Acetic acid	U	16	0.4	1.0
Acetophenone**	U	16	0.4	1.9
Nonanal**	N	15	0.4	2.2
Butane, 2-methyl-	U	13	0.3	1.0
Benzenecarbothioic acid	N	8	0.2	1.0
Toluene	U	7	0.2	0.6
Benzene, 1,2,4-trimethyl-	U	7	0.2	0.8
Benzene	U	6	0.1	0.5
m/p-Xylene	U	6	0.1	0.6
Phenol	U	5	0.1	0.5
Decanal**	N	<5	<0.1	<0.8
Phenylmaleic anhydride	U	<5	<0.1	<0.9
o-Xylene	U	<5	<0.1	<0.5
alpha-Pinene	U	<5	<0.1	<0.7
Pentane, 3-methyl-	U	<5	<0.1	<0.4
Octanal**	U	<5	<0.1	<0.6
Benzothiazole	N	<5	<0.1	<0.7

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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, Laboratory Manager

LABORATORY ANALYSIS REPORT

Tube Number	003397			
Gradko Lab Reference	04N0769			
Exposure Time(mins)	20020			
Sample ID	P8			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
Tetracosane	U	82	2.1	28
Benzoic acid	N	48	1.2	5.8
2,6-Diphenyl-p-benzoquinone	N	39	1.0	10
Benzaldehyde**	U	24	0.6	2.6
Acetophenone**	U	19	0.5	2.3
m/p-Xylene	U	18	0.5	2.0
Toluene	U	14	0.3	1.3
Acetic acid	U	13	0.3	0.8
o-Xylene	U	11	0.3	1.1
Benzenecarbothioic acid	N	8	0.2	1.1
Phenol	U	7	0.2	0.6
Nonanal**	N	7	0.2	1.0
Phenylmaleic anhydride	U	6	0.2	1.1
Ethylbenzene	U	6	0.2	0.6
Benzene	U	5	0.1	0.4
Decanal**	N	5	0.1	0.7
alpha-Pinene	U	<5	<0.1	<0.7
Undecane	U	<5	<0.1	<0.8
Benzene, 1,2,4-trimethyl-	U	<5	<0.1	<0.6
Dibutyl phthalate	U	<5	<0.1	<1.4

Tube Number	001880			
Gradko Lab Reference	04N0770			
Exposure Time(mins)	20005			
Sample ID	P9			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
Benzoic acid	N	74	1.9	9.0
Benzaldehyde**	U	23	0.6	2.5
2,6-Diphenyl-p-benzoquinone	N	20	0.5	5.3
Acetophenone**	U	19	0.5	2.3
Acetic acid	U	14	0.3	0.8
Benzenecarbothioic acid	N	11	0.3	1.5
Phenol	U	9	0.2	0.8
Nonanal**	N	9	0.2	1.3
Phenylmaleic anhydride	U	9	0.2	1.5
Butane, 2-methyl-	U	7	0.2	0.5
Ethanol, 2-phenoxy-	N	7	0.2	0.9

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 6 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
Toluene	U	<5	<0.1	<0.5
Benzene	U	<5	<0.1	<0.4
alpha-Pinene	U	<5	<0.1	<0.7
m/p-Xylene	U	<5	<0.1	<0.5
Decanal**	N	<5	<0.1	<0.8
Phthalic anhydride	N	<5	<0.1	<0.7
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8
Oxime-, methoxy-phenyl-	N	<5	<0.1	<0.8

Tube Number 003297
Gradko Lab Reference 04N0771
Exposure Time(mins) 19965
Sample ID 85

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	110	2.7	28.6
Benzoic acid	N	80	2.0	9.8
Tetracosane	U	76	1.9	26
Toluene	U	37	0.9	3.4
Benzaldehyde**	U	27	0.7	2.9
Acetophenone**	U	19	0.5	2.3
m/p-Xylene	U	15	0.4	1.6
alpha-Pinene	U	14	0.4	2.0
Phenol	U	9	0.2	0.9
Phenylmaleic anhydride	U	9	0.2	1.5
Nonanal**	N	8	0.2	1.2
Acetic acid	U	8	0.2	0.5
Benzenecarbothioic acid	N	8	0.2	1.1
o-Xylene	U	8	0.2	0.9
Hexanal**	N	6	0.1	0.6
Ethylbenzene	U	6	0.1	0.6
Benzene	U	6	0.1	0.4
Benzothiazole	N	<5	<0.1	<0.7
Decanal**	N	<5	<0.1	<0.8
Benzene, 1,2,4-trimethyl-	U	<5	<0.1	<0.6

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 7 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number 001602
Gradko Lab Reference 04N0772
Exposure Time(mins) 20370
Sample ID 80

Top 20 VOC	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm ⁻³ *
Benzoic acid	N	65	1.6	7.8
Tetracosane	U	53	1.3	17.5
Benzaldehyde**	U	21	0.5	2.2
Acetophenone**	U	16	0.4	1.9
Benzenecarbothioic acid	N	10	0.2	1.3
Acetic acid	U	8	0.2	0.5
Phenol	U	7	0.2	0.7
Phenylmaleic anhydride	U	7	0.2	1.2
Butane, 2-methyl-	U	7	0.2	0.5
Nonanal**	N	<5.0	<0.1	<0.7
Dibutyl phthalate	U	<5.0	<0.1	<1.4
Benzene	U	<5.0	<0.1	<0.4
m/p-Xylene	U	<5.0	<0.1	<0.5
Toluene	U	<5.0	<0.1	<0.5
Phthalic anhydride	N	<5.0	<0.1	<0.7
Carbamic chloride, diethyl-	N	<5.0	<0.1	<0.7
Benzothiazole	N	<5.0	<0.1	<0.7
Benzeneacetaldehyde**	N	<5.0	<0.1	<0.6
o-Xylene	U	<5.0	<0.1	<0.5
Octanal**	U	<5.0	<0.1	<0.6

Tube Number 001844
Gradko Lab Reference 04N0773
Exposure Time(mins) 20350
Sample ID 8

Top 20 VOC	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	37	0.9	9.5
Benzoic acid	N	24	0.6	2.9
Benzaldehyde**	U	16	0.4	1.7
Acetophenone**	U	14	0.3	1.6
Diethyl phthalate	U	9	0.2	1.9
Nonanal**	N	7	0.2	1.0
Acetic acid	U	6	0.2	0.4
Benzenecarbothioic acid	N	6	0.1	0.8
Toluene	U	5	0.1	0.5
Phenylmaleic anhydride	U	5	0.1	0.9
Phenol	U	<5	<0.1	<0.5

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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 Manager

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Dibutyl phthalate	U	<5	<0.1	<1.4
Benzene	U	<5	<0.1	<0.4
Decanal**	N	<5	<0.1	<0.8
m/p-Xylene	U	<5	<0.1	<0.5
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8
Hexanal**	N	<5	<0.1	<0.5
alpha-Pinene	U	<5	<0.1	<0.7
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
Phthalic anhydride	N	<5	<0.1	<0.7

Tube Number GRA10228
Gradko Lab Reference 04N0774
Exposure Time(mins) 20340
Sample ID P5

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
Benzaldehyde**	U	8	0.2	0.9
Acetophenone**	U	5	0.1	0.6
Nonanal**	N	<5	<0.1	<0.7
Acetic acid	U	<5	<0.1	<0.3
Benzene	U	<5	<0.1	<0.4
Phenol	U	<5	<0.1	<0.5
Benzoic acid	N	<5	<0.1	<0.6
alpha-Pinene	U	<5	<0.1	<0.7
Toluene	U	<5	<0.1	<0.5
Hexanal**	N	<5	<0.1	<0.5
Cyclohexane, isocyanato-	N	<5	<0.1	<0.6
3-Carene	U	<5	<0.1	<0.7
Benzothiazole	N	<5	<0.1	<0.7
Methyl Isobutyl Ketone	N	<5	<0.1	<0.5
m/p-Xylene	U	<5	<0.1	<0.5
Decanal**	N	<5	<0.1	<0.8
Phenol	U	<5	<0.1	<0.5
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
1,3,5-Trifluorobenzene	N	<5	<0.1	<0.6

19 Compounds detected

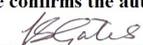
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 9 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number	GRA02688			
Gradko Lab Reference	04N0775			
Exposure Time(mins)	20315			
Sample ID	7			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
3-Methylcyclopentyl acetate	N	58	1.4	8.1
Decanal**	N	22	0.5	3.3
Nonanal**	N	21	0.5	3.0
Benzaldehyde**	U	20	0.5	2.1
Hexanoic acid, 3,5,5-trimethyl-	N	19	0.5	2.9
5,9-Dodecadien-2-one, 6,10-dimethyl-, (E,E)-	N	18	0.4	3.7
Benzoic acid	N	18	0.4	2.1
Acetic acid	U	18	0.4	1.0
Acetophenone**	U	10	0.3	1.2
Octanal**	U	10	0.2	1.3
Methyl vinyl ketone	N	8	0.2	0.5
2-Butenal, 3-methyl-	N	5	0.1	0.4
Ethanone, 1-(1-cyclohexen-1-yl)-	N	5	0.1	0.6
Hexanal**	N	5	0.1	0.5
1-Butanol, 3-methoxy-	N	<5	<0.1	<0.5
Benzenecarbothioic acid	N	<5	<0.1	<0.7
3-Buten-2-ol, 2-methyl-	N	<5	<0.1	<0.4
5-Hepten-2-one, 6-methyl-	N	<5	<0.1	<0.6
Phenol	U	<5	<0.1	<0.5
Toluene	U	<5	<0.1	<0.5

Tube Number	GRA11937			
Gradko Lab Reference	04N0776			
Exposure Time(mins)	20290			
Sample ID	9			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
Acetic acid	U	30	0.7	1.8
Benzaldehyde**	U	16	0.4	1.6
Benzoic acid	N	11	0.3	1.4
1,4-Pentadiene	N	10	0.2	0.7
Hexane	U	8	0.2	0.7
Acetophenone**	U	8	0.2	0.9
Butane, 2-methyl-	U	7	0.2	0.5
Pentane, 3-methyl-	U	6	0.2	0.5
2-Butanone	U	6	0.1	0.4
Nonanal**	N	5	0.1	0.7
1,3,5-Trifluorobenzene	N	5	0.1	0.7

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 10 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Phenol	U	5	0.1	0.5
Benzene	U	<5	<0.1	<0.4
Toluene	U	<5	<0.1	<0.5
Butanoic acid	N	<5	<0.1	<0.4
Cyclohexane, isocyanato-	N	<5	<0.1	<0.6
Benzenecarbothioic acid	N	<5	<0.1	<0.7
alpha-Pinene	U	<5	<0.1	<0.7
m/p-Xylene	U	<5	<0.1	<0.5
Hexanal**	N	<5	<0.1	<0.5

Tube Number GRA10685
Gradko Lab Reference 04N0777
Exposure Time(mins) 20270
Sample ID 1

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
Tetracosane	U	45	1.1	15
Acetic acid	U	15	0.4	0.9
Toluene	U	11	0.3	1.0
Benzaldehyde**	U	10	0.2	1.0
Hexanal**	N	9	0.2	0.9
Butane, 2-methyl-	U	9	0.2	0.6
1,4-Pentadiene	N	7	0.2	0.5
Nonanal**	N	6	0.1	0.8
Benzene	U	<5	<0.1	<0.4
Acetophenone**	U	<5	<0.1	<0.6
m/p-Xylene	U	<5	<0.1	<0.5
alpha-Pinene	U	<5	<0.1	<0.7
Benzoic acid	N	<5	<0.1	<0.6
Phenol	U	<5	<0.1	<0.5
o-Xylene	U	<5	<0.1	<0.5
Benzothiazole	N	<5	<0.1	<0.7
5-Hepten-2-one, 6-methyl-	N	<5	<0.1	<0.6
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
Decanal**	N	<5	<0.1	<0.8
3-Carene	U	<5	<0.1	<0.7

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 11 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number	GRA02653			
Gradko Lab Reference	04N0778			
Exposure Time(mins)	20255			
Sample ID	2			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
Tetracosane	U	47	1.2	16
Acetic acid	U	24	0.6	1.4
Benzaldehyde**	U	13	0.3	1.3
Butane, 2-methyl-	U	11	0.3	0.7
1,4-Pentadiene	N	9	0.2	0.6
Benzene	U	7	0.2	0.6
Hexane	U	7	0.2	0.6
m/p-Xylene	U	6	0.2	0.7
Toluene	U	6	0.1	0.5
Acetophenone**	U	5	0.1	0.6
Nonanal**	N	<5	<0.1	<0.7
Benzoic acid	N	<5	<0.1	<0.6
Hexanal**	N	<5	<0.1	<0.5
Ethylbenzene	U	<5	<0.1	<0.5
alpha-Pinene	U	<5	<0.1	<0.7
Phenol	U	<5	<0.1	<0.5
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8
Limonene	U	<5	<0.1	<0.7
o-Xylene	U	<5	<0.1	<0.5
3-Carene	U	<5	<0.1	<0.7

Tube Number	GRA10022			
Gradko Lab Reference	04N0779			
Exposure Time(mins)	20250			
Sample ID	3			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
Acetylacetone	N	53	1.3	5.2
Acetic acid	U	22	0.5	1.3
Benzaldehyde**	U	10	0.2	1.0
1,4-Pentadiene	N	7	0.2	0.5
alpha-Pinene	U	5	0.1	0.7
Benzene	U	<5	<0.1	<0.4
3-Carene	U	<5	<0.1	<0.7
Acetophenone**	U	<5	<0.1	<0.6
Toluene	U	<5	<0.1	<0.5
Nonanal**	N	<5	<0.1	<0.7
m/p-Xylene	U	<5	<0.1	<0.5

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 12 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Phenol	U	<5	<0.1	<0.5
Methyl Isobutyl Ketone	N	<5	<0.1	<0.5
Decanal**	N	<5	<0.1	<0.8
o-Xylene	U	<5	<0.1	<0.5
beta-Pinene	N	<5	<0.1	<0.7
Ethylbenzene	U	<5	<0.1	<0.5
Benzothiazole	N	<5	<0.1	<0.7
Benzoic acid	N	<5	<0.1	<0.6

19 Compounds detected

Tube Number GRA04885
Gradko Lab Reference 04N0780
Exposure Time(mins) 20240
Sample ID 4

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
Benzaldehyde**	U	8	0.2	0.9
Acetophenone**	U	<5	<0.1	<0.6
Acetic acid	U	<5	<0.1	<0.3
alpha-Pinene	U	<5	<0.1	<0.7
Benzene	U	<5	<0.1	<0.4
Benzoic acid	N	<5	<0.1	<0.6
Toluene	U	<5	<0.1	<0.5
3-Carene	U	<5	<0.1	<0.7
m/p-Xylene	U	<5	<0.1	<0.5
Phenol	U	<5	<0.1	<0.5
Nonanal**	N	<5	<0.1	<0.7
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8
1,4-Pentadiene	N	<5	<0.1	<0.3
beta-Pinene	N	<5	<0.1	<0.7
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
o-Xylene	U	<5	<0.1	<0.5
Ethylbenzene	U	<5	<0.1	<0.5
Benzene, 1,3-dichloro-	U	<5	<0.1	<0.7
Butane, 2-methyl-	U	<5	<0.1	<0.4

19 Compounds detected

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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, Laboratory Manager

LABORATORY ANALYSIS REPORT

Tube Number	GRA05062			
Gradko Lab Reference	04N0781			
Exposure Time(mins)	20210			
Sample ID	P3			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
Benzoic acid	N	15	0.4	1.8
Hexanal**	U	13	0.3	1.3
Benzaldehyde**	U	13	0.3	1.3
Acetophenone**	U	10	0.3	1.2
Acetic acid	U	7	0.2	0.4
Nonanal**	N	<5	<0.1	<0.7
Benzenecarbothioic acid	N	<5	<0.1	<0.7
Phenol	U	<5	<0.1	<0.5
Benzene	U	<5	<0.1	<0.4
Toluene	U	<5	<0.1	<0.5
Phenylmaleic anhydride	U	<5	<0.1	<0.9
m/p-Xylene	U	<5	<0.1	<0.5
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8
Octanal**	U	<5	<0.1	<0.6
Decanal**	N	<5	<0.1	<0.8
o-Xylene	U	<5	<0.1	<0.5
Benzeneacetaldehyde	N	<5	<0.1	<0.6
Phthalic anhydride	N	<5	<0.1	<0.7
Oxime-, methoxy-phenyl-	N	<5	<0.1	<0.7
alpha-Pinene	U	<5	<0.1	<0.7

Tube Number	GRA03849			
Gradko Lab Reference	04N0782			
Exposure Time(mins)	20245			
Sample ID	105			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	47	1.2	12
Octanoic acid	N	9	0.2	1.2
Acetic acid	U	8	0.2	0.5
Benzaldehyde**	U	8	0.2	0.8
Benzoic acid	N	7	0.2	0.8
m/p-Xylene	U	6	0.1	0.6
Butane, 2-methyl-	U	5	0.1	0.4
Toluene	U	5	0.1	0.5
Acetophenone**	U	<5	<0.1	<0.6
Benzene	U	<5	<0.1	<0.4
alpha-Pinene	U	<5	<0.1	<0.7

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 14 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Hexanoic acid, 2-ethyl-	N	<5	<0.1	<0.7
Hexane	U	<5	<0.1	<0.4
Ethylbenzene	U	<5	<0.1	<0.5
Phthalic anhydride	N	<5	<0.1	<0.7
Benzene, 1,2,4-trimethyl-	U	<5	<0.1	<0.6
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8
Phenol	U	<5	<0.1	<0.5
o-Xylene	U	<5	<0.1	<0.5
Hexanoic acid, 3,5,5-trimethyl-	N	<5	<0.1	<0.8

Tube Number	GRA10880
Gradko Lab Reference	04N0783
Exposure Time(mins)	20210
Sample ID	60

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	104	2.6	27
Acetic acid	U	30	0.8	1.8
Benzaldehyde**	U	21	0.5	2.2
Butane, 2-methyl-	U	15	0.4	1.1
Hexanal**	N	14	0.3	1.4
Benzoic acid	N	13	0.3	1.6
Acetophenone**	U	13	0.3	1.5
Nonanal**	N	9	0.2	1.2
Pentane	U	8	0.2	0.6
Toluene	U	8	0.2	0.7
Hexane	U	7	0.2	0.6
Pentane, 3-methyl-	U	7	0.2	0.6
m/p-Xylene	U	6	0.1	0.6
Phenol	U	5	0.1	0.5
Decanal**	N	<5	<0.1	<0.8
Benzene	U	<5	<0.1	<0.4
Benzenecarbothioic acid	N	<5	<0.1	<0.7
alpha-Pinene	U	<5	<0.1	<0.7
Phenylmaleic anhydride	U	<5	<0.1	<0.9
1,3,5-Trifluorobenzene	N	<5	<0.1	<0.7

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 15 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number	GRA08401			
Gradko Lab Reference	04N0784			
Exposure Time(mins)	20215			
Sample ID	64			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	36	0.9	9.2
Benzaldehyde**	U	21	0.5	2.2
Benzoic acid	N	16	0.4	1.9
Acetic acid	U	16	0.4	0.9
Hexanoic acid, 3,5,5-trimethyl-	N	12	0.3	1.8
Acetophenone**	U	11	0.3	1.3
m/p-Xylene	U	10	0.2	1.0
Toluene	U	8	0.2	0.7
Butane, 2-methyl-	U	7	0.2	0.5
Benzene	U	6	0.2	0.5
Nonanal**	N	6	0.2	0.9
Phenol	U	6	0.1	0.5
alpha-Pinene	U	<5	<0.1	<0.7
Ethylbenzene	U	<5	<0.1	<0.5
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8
o-Xylene	U	<5	<0.1	<0.5
Benzene, 1,2,4-trimethyl-	U	<5	<0.1	<0.6
Decanal**	N	<5	<0.1	<0.8
Octane	U	<5	<0.1	<0.6
Hexane	U	<5	<0.1	<0.4

Tube Number	GRA09810			
Gradko Lab Reference	04N0785			
Exposure Time(mins)	20195			
Sample ID	65			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	77	1.9	20
Benzoic acid	N	44	1.1	5.3
Benzaldehyde**	U	31	0.8	3.3
Acetic acid	U	19	0.5	1.1
Acetophenone**	U	15	0.4	1.8
m/p-Xylene	U	15	0.4	1.5
o-Xylene	U	10	0.2	1.0
Toluene	U	8	0.2	0.8
Butane, 2-methyl-	U	8	0.2	0.6
Benzene	U	7	0.2	0.6
Nonanal**	N	6	0.1	0.8

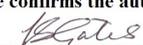
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 16 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Phenol	U	6	0.1	0.5
Pentane, 3-methyl-	U	6	0.1	0.5
Ethylbenzene	U	5	0.1	0.6
Benzene, 1,2,4-trimethyl-	U	<5	<0.1	<0.6
Styrene	U	<5	<0.1	<0.5
Benzenecarbothioic acid	N	<5	<0.1	<0.7
Phenylmaleic anhydride	U	<5	<0.1	<0.9
Cyclohexane, isocyanato-	N	<5	<0.1	<0.6
Hexane	U	<5	<0.1	<0.4

Tube Number 000067
Gradko Lab Reference 04N0786
Exposure Time(mins) 20455
Sample ID 68

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	111	2.7	28
Benzoic acid	N	31	0.8	3.7
Acetic acid	U	30	0.7	1.8
Benzaldehyde**	U	20	0.5	2.1
Butane, 2-methyl-	U	20	0.5	1.4
Acetophenone**	U	14	0.3	1.6
m/p-Xylene	U	12	0.3	1.2
Toluene	U	11	0.3	1.0
Nonanal**	N	7	0.2	1.0
Benzene	U	7	0.2	0.5
Phenylmaleic anhydride	U	6	0.1	1.0
o-Xylene	U	5	0.1	0.6
alpha-Pinene	U	5	0.1	0.7
Phenol	U	<5	<0.1	<0.5
Ethylbenzene	U	<5	<0.1	<0.5
2-Furanmethanol	N	<5	<0.1	<0.5
Benzene, 1,2,4-trimethyl-	U	<5	<0.1	<0.6
Hexanal**	N	<5	<0.1	<0.5
Benzenecarbothioic acid	N	<5	<0.1	<0.7
Phthalic anhydride	N	<5	<0.1	<0.7

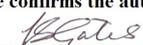
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 17 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number	003312			
Gradko Lab Reference	04N0787			
Exposure Time(mins)	20425			
Sample ID	67			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm^{-3*}
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	95	2.3	24
Benzoic acid	N	59	1.5	7.1
Acetic acid	U	30	0.7	1.7
Butane, 2-methyl-	U	26	0.6	1.8
Benzaldehyde**	U	24	0.6	2.5
Acetophenone**	U	18	0.4	2.1
Benzene	U	12	0.3	0.9
m/p-Xylene	U	10	0.3	1.1
Toluene	U	10	0.2	0.9
Pentane, 3-methyl-	U	9	0.2	0.7
Hexane	U	8	0.2	0.7
Benzenecarbothioic acid	N	8	0.2	1.1
Phenol	U	8	0.2	0.7
Butanal	U	7	0.2	0.5
Phenylmaleic anhydride	U	7	0.2	1.2
1,3,5-Trifluorobenzene	N	7	0.2	0.9
Nonanal**	N	6	0.1	0.9
Benzene, 1,2,4-trimethyl-	U	<5	<0.1	<0.6
alpha-Pinene	U	<5	<0.1	<0.7
o-Xylene	U	<5	<0.1	<0.5

Tube Number	003568			
Gradko Lab Reference	04N0788			
Exposure Time(mins)	20355			
Sample ID	73			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm^{-3*}
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	73	1.8	19
Benzoic acid	N	49	1.2	5.8
Benzaldehyde**	U	19	0.5	2.0
Acetic acid	U	18	0.4	1.1
Acetophenone**	U	14	0.3	1.7
Toluene	U	10	0.2	0.9
m/p-Xylene	U	6	0.2	0.6
Benzene	U	6	0.2	0.5
Butane, 2-methyl-	U	6	0.1	0.4
Benzenecarbothioic acid	N	6	0.1	0.8
alpha-Pinene	U	5	0.1	0.7

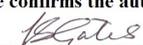
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 18 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Phenol	U	5	0.1	0.5
Nonanal**	N	<5	<0.1	<0.7
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8
Phenylmaleic anhydride	U	<5	<0.1	<0.9
o-Xylene	U	<5	<0.1	<0.5
Formamide, N,N-dimethyl-	N	<5	<0.1	<0.4
Phthalic anhydride	N	<5	<0.1	<0.7
Pentane, 3-methyl-	U	<5	<0.1	<0.4
Benzothiazole	N	<5	<0.1	<0.7

Tube Number 002252
Gradko Lab Reference 04N0789
Exposure Time(mins) 20370
Sample ID 79

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	114	2.8	29
Benzoic acid	N	65	1.6	7.8
Benzaldehyde**	U	21	0.5	2.2
Acetophenone**	U	19	0.5	2.2
Acetic acid	U	11	0.3	0.6
Toluene	U	10	0.2	0.9
Butane, 2-methyl-	U	9	0.2	0.6
m/p-Xylene	U	8	0.2	0.9
Benzenecarbothioic acid	N	8	0.2	1.1
Benzene	U	7	0.2	0.5
alpha-Pinene	U	7	0.2	0.9
Cyclohexane, methyl-	U	7	0.2	0.6
Phenylmaleic anhydride	U	6	0.2	1.1
Phenol	U	6	0.1	0.5
Nonanal**	N	5	0.1	0.7
Benzene, 1,2,4-trimethyl-	U	<5	<0.1	<0.6
o-Xylene	U	<5	<0.1	<0.5
Nonane	U	<5	<0.1	<0.6
Ethylbenzene	U	<5	<0.1	<0.5
Octane	U	<5	<0.1	<0.6

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 19 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number	GRA10241			
Gradko Lab Reference	04N0790			
Exposure Time(mins)	20315			
Sample ID	78			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	44	1.1	11
Acetic acid	U	20	0.5	1.2
Benzoic acid	N	17	0.4	2.0
Benzaldehyde**	U	15	0.4	1.6
Butane, 2-methyl-	U	14	0.3	1.0
Acetophenone**	U	10	0.3	1.2
Toluene	U	9	0.2	0.8
Benzene	U	7	0.2	0.5
m/p-Xylene	U	6	0.1	0.6
alpha-Pinene	U	5	0.1	0.7
Pentane, 3-methyl-	U	<5	<0.1	<0.4
Nonanal**	N	<5	<0.1	<0.7
Phenol	U	<5	<0.1	<0.5
o-Xylene	U	<5	<0.1	<0.5
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8
Benzenecarbothioic acid	N	<5	<0.1	<0.7
Ethylbenzene	U	<5	<0.1	<0.5
Benzene, 1,2,4-trimethyl-	U	<5	<0.1	<0.6
Hexane, 3-methyl-	U	<5	<0.1	<0.5
Hexanal**	N	<5	<0.1	<0.5

Tube Number	GRA02365			
Gradko Lab Reference	04N0791			
Exposure Time(mins)	20300			
Sample ID	77			
	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm⁻³*
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	23	0.6	5.8
Benzoic acid	N	18	0.4	2.1
Benzaldehyde**	U	17	0.4	1.8
Acetic acid	U	12	0.3	0.7
Acetophenone**	U	10	0.3	1.2
Toluene	U	6	0.2	0.6
Benzene	U	5	0.1	0.4
Nonanal**	N	5	0.1	0.7
Butane, 2-methyl-	U	5	0.1	0.4
alpha-Pinene	U	5	0.1	0.7
m/p-Xylene	U	<5	<0.1	<0.5

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 20 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Phenol	U	<5	<0.1	<0.5
Benzenecarbothioic acid	N	<5	<0.1	<0.7
Benzene, 1,2,4-trimethyl-	U	<5	<0.1	<0.6
o-Xylene	U	<5	<0.1	<0.5
Formamide, N,N-dimethyl-	N	<5	<0.1	<0.4
Oxime-, methoxy-phenyl-	N	<5	<0.1	<0.7
Benothiazole	N	<5	<0.1	<0.7
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8
Phthalic anhydride	N	<5	<0.1	<0.7

Tube Number 001761
Gradko Lab Reference 04N0792
Exposure Time(mins) 20275
Sample ID 74

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	85	2.1	22
Benzoic acid	N	69	1.7	8.3
Benzaldehyde**	U	24	0.6	2.5
Acetic acid	U	20	0.5	1.2
Acetophenone**	U	17	0.4	2.0
alpha-Pinene	U	9	0.2	1.2
Butane, 2-methyl-	U	9	0.2	0.6
Phenol	U	8	0.2	0.8
m/p-Xylene	U	8	0.2	0.9
Benzenecarbothioic acid	N	8	0.2	1.1
Toluene	U	7	0.2	0.7
Phenylmaleic anhydride	U	6	0.2	1.1
Benzene	U	6	0.1	0.5
Nonanal**	N	5	0.1	0.7
o-Xylene	U	<5	<0.1	<0.5
Phthalic anhydride	N	<5	<0.1	<0.7
Decanal**	N	<5	<0.1	<0.8
Ethylbenzene	U	<5	<0.1	<0.5
Benzene, 1,2,4-trimethyl-	U	<5	<0.1	<0.6
Oxime-, methoxy-phenyl-	N	<5	<0.1	<0.7

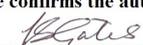
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 21 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number 002324
Gradko Lab Reference 04N0793
Exposure Time(mins) 20235
Sample ID 70

Top 20 VOC	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	42	1.0	11
Benzoic acid	N	37	0.9	4.5
Benzaldehyde**	U	18	0.4	1.9
Acetic acid	U	16	0.4	0.9
Acetophenone**	U	14	0.3	1.6
Butane, 2-methyl-	U	13	0.3	0.9
Nonanal**	N	7	0.2	1.0
Benzene	U	6	0.2	0.5
Toluene	U	6	0.2	0.6
Phenol	U	6	0.2	0.6
alpha-Pinene	U	5	0.1	0.7
Benzenecarbothioic acid	N	<5	<0.1	<0.7
m/p-Xylene	U	<5	<0.1	<0.5
Phenylmaleic anhydride	U	<5	<0.1	<0.9
Formamide, N,N-dimethyl-	N	<5	<0.1	<0.4
Cyclohexane, isocyanato-	N	<5	<0.1	<0.6
Pentane, 3-methyl-	U	<5	<0.1	<0.4
Benothiazole	N	<5	<0.1	<0.7
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
Hexanoic acid, 3,5,5-trimethyl-	N	<5	<0.1	<0.8

Tube Number 003398
Gradko Lab Reference 04N0794
Exposure Time(mins) 20225
Sample ID 71

Top 20 VOC	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	47	1.2	12
Benzoic acid	N	42	1.0	5.0
Benzaldehyde**	U	19	0.5	2.0
Acetic acid	U	18	0.5	1.1
Acetophenone**	U	13	0.3	1.6
Butane, 2-methyl-	U	10	0.2	0.7
Nonanal**	N	8	0.2	1.1
Phenol	U	8	0.2	0.7
Toluene	U	6	0.1	0.5
alpha-Pinene	U	5	0.1	0.7
Benzenecarbothioic acid	N	<5	<0.1	<0.7

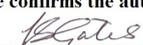
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 22 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Benzene	U	<5	<0.1	<0.4
Oxime-, methoxy-phenyl- ₂	N	<5	<0.1	<0.7
Phenylmaleic anhydride	U	<5	<0.1	<0.9
m/p-Xylene	U	<5	<0.1	<0.5
o-Xylene	U	<5	<0.1	<0.5
Cyclohexane, isocyanato-	N	<5	<0.1	<0.6
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8
Benzothiazole	N	<5	<0.1	<0.7

Tube Number 001534
Gradko Lab Reference 04N0795
Exposure Time(mins) 20220
Sample ID 72

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
Benzoic acid	N	51	1.3	6.2
Acetic acid	U	34	0.8	2.0
2,6-Diphenyl-p-benzoquinone	N	31	0.8	7.9
Butane, 2-methyl-	U	22	0.6	1.6
Benzaldehyde**	U	19	0.5	2.0
Acetophenone**	U	14	0.3	1.6
Nonanal**	N	10	0.3	1.5
alpha-Pinene	U	8	0.2	1.1
Hexane	U	8	0.2	0.7
Pentane, 3-methyl-	U	8	0.2	0.6
Toluene	U	7	0.2	0.6
Phenol	U	7	0.2	0.6
Phenylmaleic anhydride	U	6	0.2	1.1
Benzene	U	6	0.1	0.5
m/p-Xylene	U	6	0.1	0.6
Benzenecarbothioic acid	N	6	0.1	0.8
Oxime-, methoxy-phenyl- ₂	N	<5	<0.1	<0.7
Hexanal**	N	<5	<0.1	<0.5
Formamide, N,N-dimethyl-	N	<5	<0.1	<0.4
Benzothiazole	N	<5	<0.1	<0.7

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 23 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number 003390
Gradko Lab Reference 04N0796
Exposure Time(mins) 20205
Sample ID 103

Top 20 VOC	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	69	1.7	18
Benzoic acid	N	44	1.1	5.3
Nonanal**	N	31	0.8	4.4
Benzaldehyde**	U	24	0.6	2.5
Acetophenone**	U	17	0.4	2.0
Acetic acid	U	12	0.3	0.7
alpha-Pinene	U	11	0.3	1.5
m/p-Xylene	U	10	0.2	1.0
Acetylacetone	N	9	0.2	0.9
Toluene	U	8	0.2	0.8
Decanal**	N	8	0.2	1.3
Butane, 2-methyl-	U	7	0.2	0.5
Phenol	U	7	0.2	0.6
Benzenecarbothioic acid	N	6	0.1	0.8
Benzene	U	5	0.1	0.4
o-Xylene	U	5	0.1	0.5
Hexanal**	N	<5	<0.1	<0.5
Cyclohexane, isocyanato-	N	<5	<0.1	<0.6
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
Ethanol, 2-phenoxy-	N	<5	<0.1	<0.7

Tube Number 003288
Gradko Lab Reference 04N0797
Exposure Time(mins) 20195
Sample ID 86

Top 20 VOC	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm ⁻³ *
2,6-Diphenyl-p-benzoquinone	N	107	2.7	28
Benzoic acid	N	60	1.5	7.3
Benzaldehyde**	U	28	0.7	2.9
Acetic acid	U	24	0.6	1.4
Acetophenone**	U	18	0.4	2.1
alpha-Pinene	U	11	0.3	1.4
Butane, 2-methyl-	U	9	0.2	0.6
Benzenecarbothioic acid	N	9	0.2	1.2
Phenol	U	9	0.2	0.8
Nonanal**	N	7	0.2	1.0
Phenylmaleic anhydride	U	6	0.1	1.0

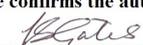
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 24 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Benzene	U	6	0.1	0.4
Toluene	U	<5	<0.1	<0.5
Dibutyl phthalate	U	<5	<0.1	<1.4
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
3-Carene	U	<5	<0.1	<0.7
m/p-Xylene	U	<5	<0.1	<0.5
Oxime-, methoxy-phenyl-	N	<5	<0.1	<0.7
1-Butanol	U	<5	<0.1	<0.4
Heptane, 2,2,4,6,6-pentamethyl-	N	<5	<0.1	<0.8

Tube Number	003233
Gradko Lab Reference	04N0798
Exposure Time(mins)	20175
Sample ID	111

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Top 20 VOC				
2,6-Diphenyl-p-benzoquinone	N	49	1.2	13
Benzoic acid	N	45	1.1	5.4
Benzaldehyde**	U	27	0.7	2.8
Acetic acid	U	24	0.6	1.4
Acetophenone**	U	15	0.4	1.8
Nonanal**	N	11	0.3	1.5
Phenol	U	8	0.2	0.7
Benzenecarbothioic acid	N	5	0.1	0.7
Decanal**	N	<5	<0.1	<0.8
Oxime-, methoxy-phenyl-	N	<5	<0.1	<0.7
Benzene	U	<5	<0.1	<0.4
Octanal**	U	<5	<0.1	<0.6
Phenylmaleic anhydride	U	<5	<0.1	<0.9
Toluene	U	<5	<0.1	<0.5
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
Hexanal**	N	<5	<0.1	<0.5
Formamide, N,N-dimethyl-	N	<5	<0.1	<0.4
Benzothiazole	N	<5	<0.1	<0.7
o-Xylene	U	<5	<0.1	<0.5
m/p-Xylene	U	<5	<0.1	<0.5

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 25 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Number 001675
Gradko Lab Reference 04N0799
Exposure Time(mins) 20170
Sample ID 104

Top 20 VOC	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm ^{-3*}
alpha-Pinene	U	80	2.0	11
2,6-Diphenyl-p-benzoquinone	N	57	1.4	15
Benzoic acid	N	48	1.2	5.8
Benzaldehyde**	U	23	0.6	2.5
3-Carene	U	23	0.6	3.1
Acetic acid	U	23	0.6	1.4
Acetophenone**	U	18	0.4	2.2
Octanoic acid	N	15	0.4	2.1
m/p-Xylene	U	12	0.3	1.3
Toluene	U	11	0.3	1.0
Butane, 2-methyl-	U	10	0.2	0.7
Nonanal**	N	8	0.2	1.2
Phenol	U	7	0.2	0.7
beta-Pinene	N	7	0.2	0.9
o-Xylene	U	7	0.2	0.7
Benzenecarbothioic acid	N	6	0.2	0.9
Phenylmaleic anhydride	U	5	0.1	0.9
Ethylbenzene	U	<5	<0.1	<0.5
Benzene	U	<5	<0.1	<0.4
Pentane, 3-methyl-	U	<5	<0.1	<0.4

Tube Number 003381
Gradko Lab Reference 04N0800
Exposure Time(mins) 20150
Sample ID 89

Top 20 VOC	Accreditation	Estimated		
	Status	ng on tube	ppb in air*	µgm ^{-3*}
Benzoic acid	N	57	1.4	6.9
2,6-Diphenyl-p-benzoquinone	N	29	0.7	7.4
Benzaldehyde**	U	22	0.6	2.4
Acetophenone**	U	19	0.5	2.3
Acetic acid	U	17	0.4	1.0
Nonanal**	N	12	0.3	1.6
Benzenecarbothioic acid	N	8	0.2	1.1
Oxime-, methoxy-phenyl-_	N	8	0.2	1.1
Phenol	U	7	0.2	0.7
Decanal**	N	<5	<0.1	<0.8
Hexanoic acid, 3,5,5-trimethyl-	N	<5	<0.1	<0.8

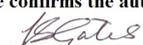
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 26 of 28

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	ppb in air*	µgm ⁻³ *
Octanal**	U	<5	<0.1	<0.6
1-Hexanol, 2-ethyl-	U	<5	<0.1	<0.6
Phenylmaleic anhydride	U	<5	<0.1	<0.9
Benzene	U	<5	<0.1	<0.4
Toluene	U	<5	<0.1	<0.5
m/p-Xylene	U	<5	<0.1	<0.5
Hexanal**	N	<5	<0.1	<0.5
Benothiazole	N	<5	<0.1	<0.7
Phthalic anhydride	N	<5	<0.1	<0.7

Tube Number 003295
Gradko Lab Reference 04N0801
Sample ID 0 (Control)

Top 20 VOC	Accreditation Status	Estimated ng on tube
Cyclopentane	N	22
Butane, 2-methyl-	U	15
Toluene	U	10
Pentane	U	8
Benzaldehyde**	U	6
1-Pentene, 2-methyl-	N	6
Pentane, 3-methyl-	U	5
Nonanal**	N	<5
Hexane	U	<5
Benzoic acid	N	<5
Hexanal**	N	<5
Decanal**	N	<5
Cyclopentane, methyl-	N	<5
Phenol	U	<5
Acetophenone**	U	<5
1-Hexanol, 2-ethyl-	U	<5
Benzyl alcohol	N	<5
Octanal**	U	<5
m/p-Xylene	U	<5
1,3,5-Trifluorobenzene	N	<5

Results are not Blank corrected.

Estimated results as ng on tube are calculated by reference to toluene in accordance with ISO 16000-6

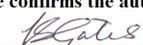
Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. The results within this report relate only to the items tested. Any queries concerning 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.

Form LQF32b Issue 8 – June 2018

Report Number N05745R

Page 27 of 28

REPORT OFFICIALLY CHECKED

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

