



CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

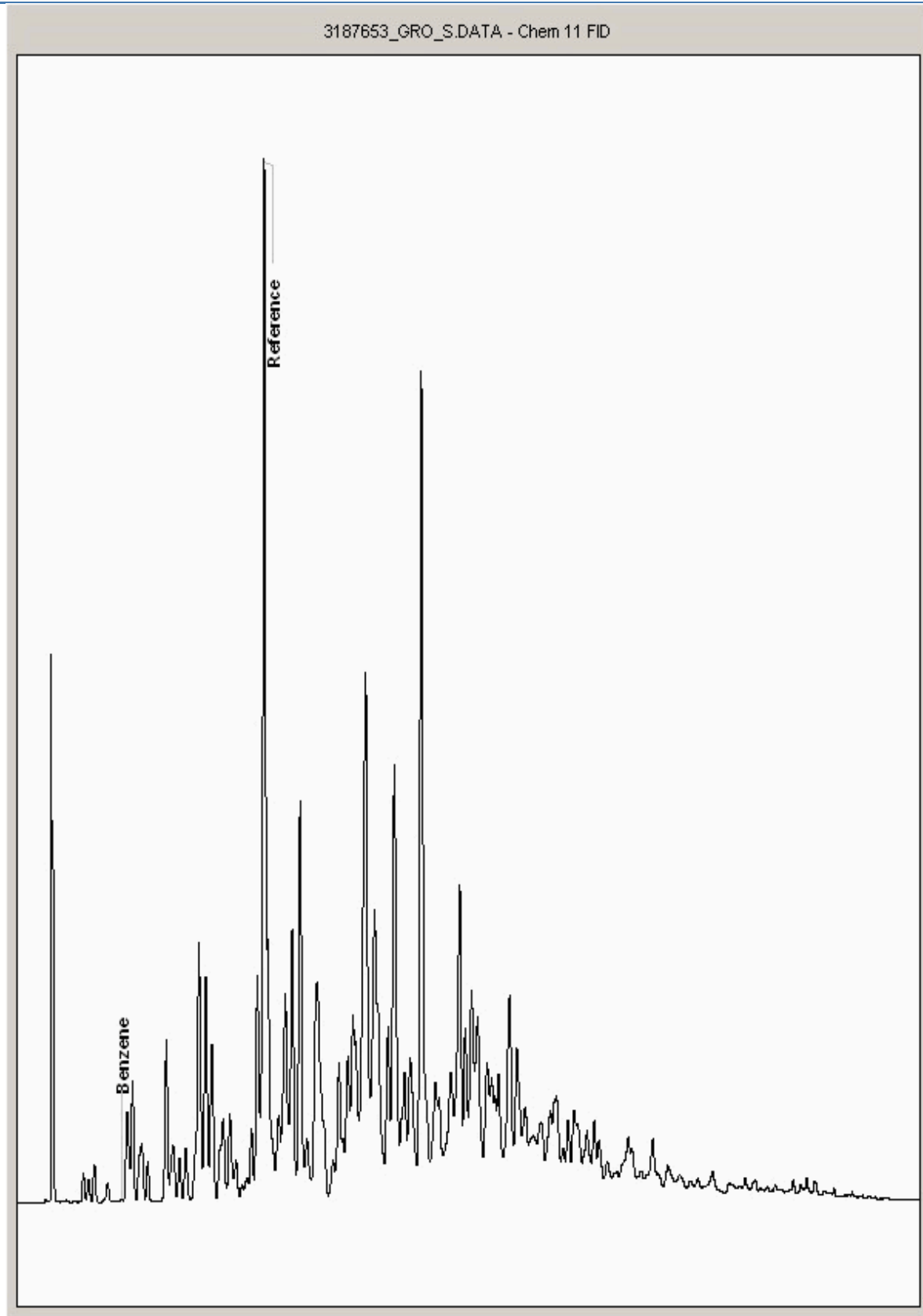
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187653
Sample ID : CATP057

Depth : 2.70





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Order Number:
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Superseded Report: 125112

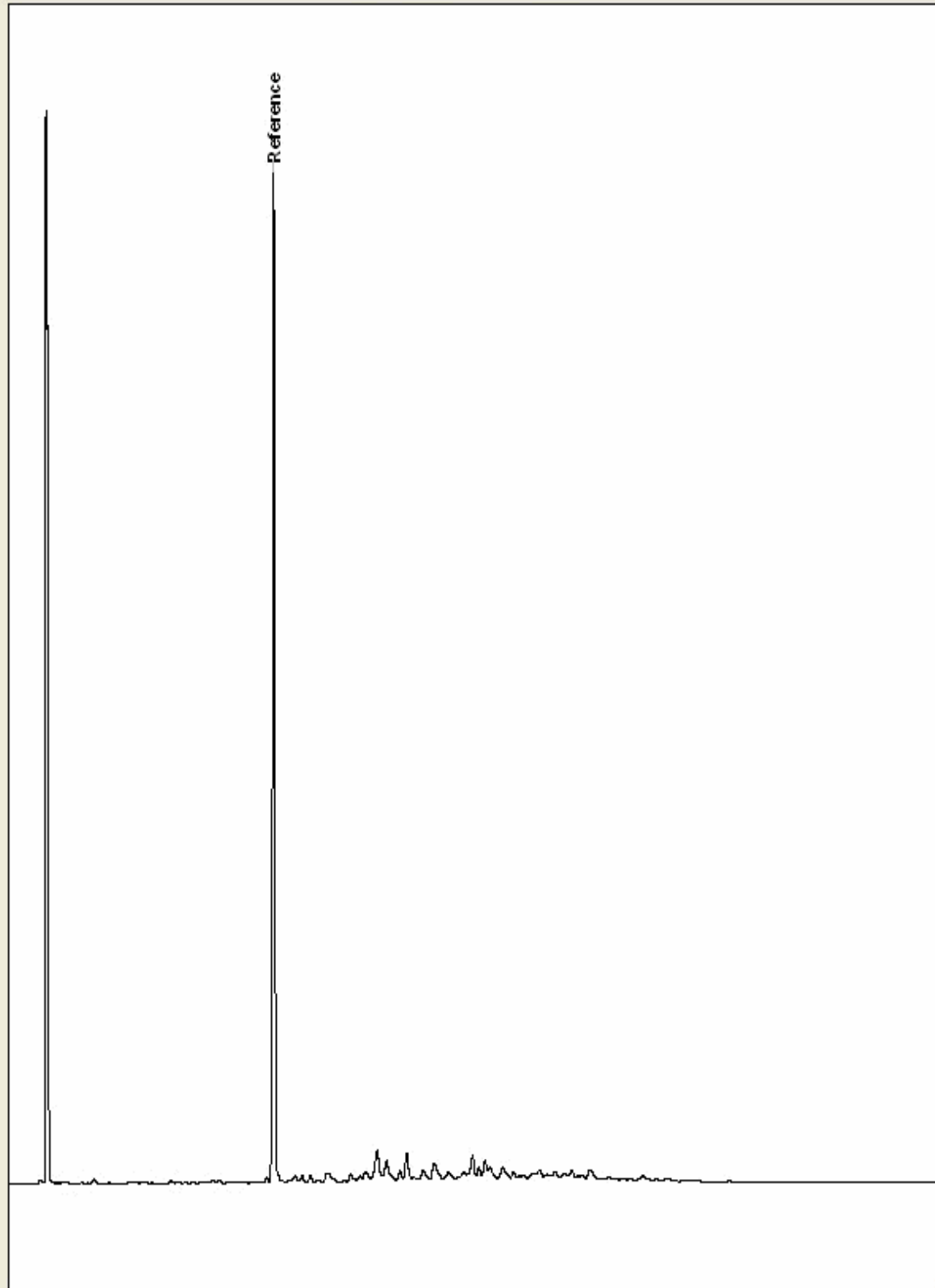
Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187688
Sample ID : CATP029

Depth : 2.50

3187688_GRO_S.DATA - Chem 63 FID





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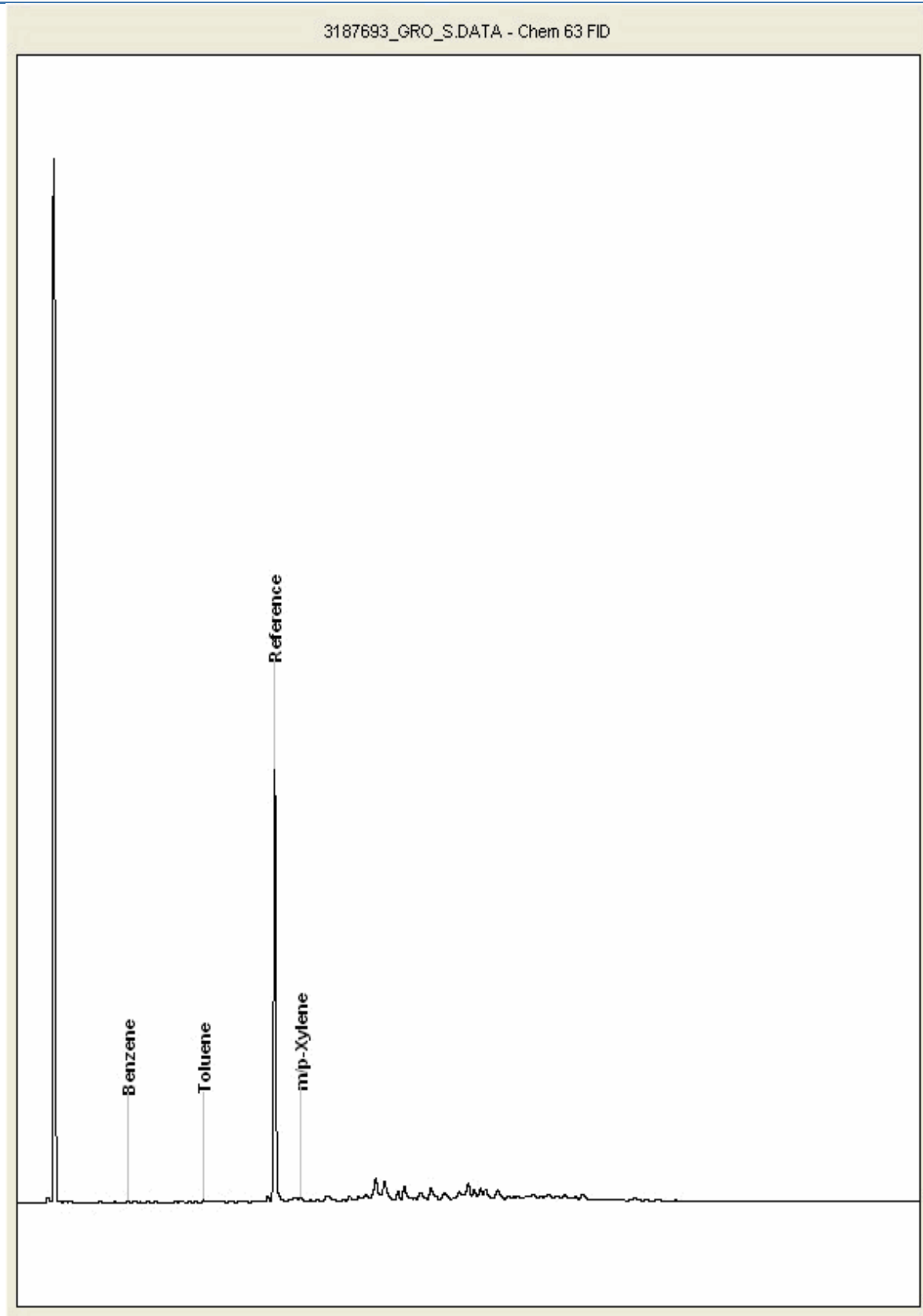
Order Number:
Report Number: 125242
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187693
Sample ID : CATP030

Depth : 0.10





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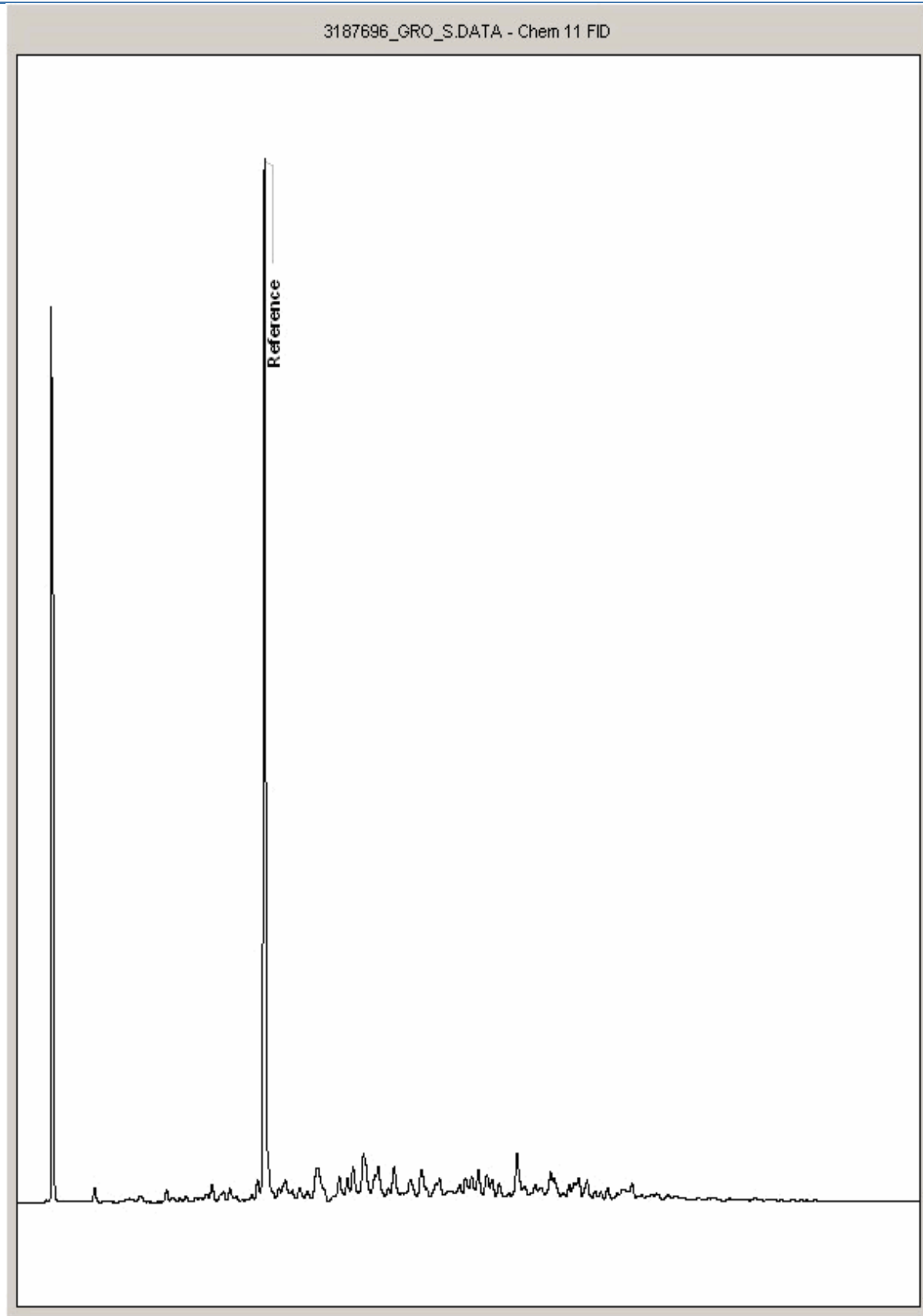
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187696
Sample ID : CATP030

Depth : 0.80





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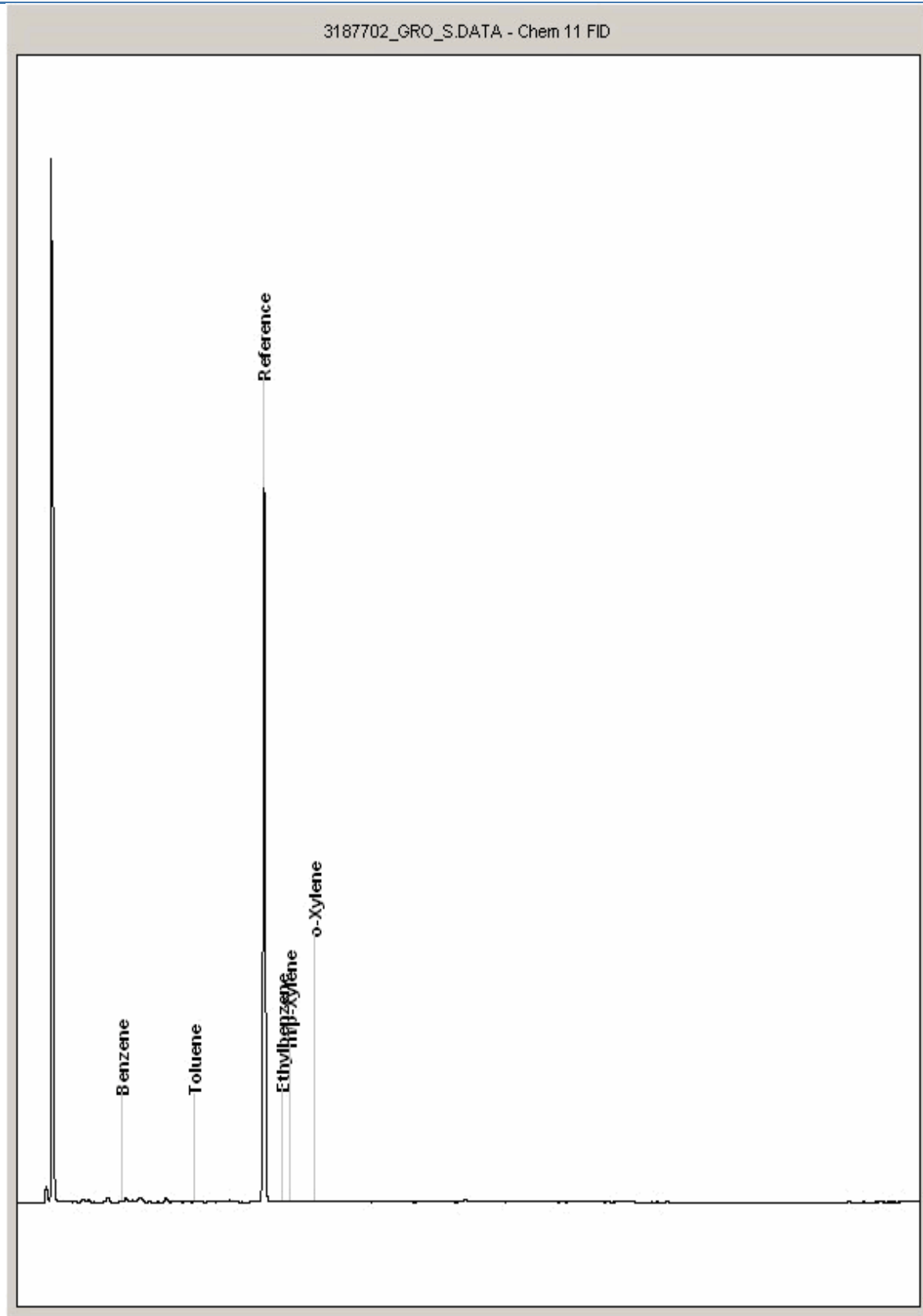
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187702
Sample ID : CATP030

Depth : 1.50





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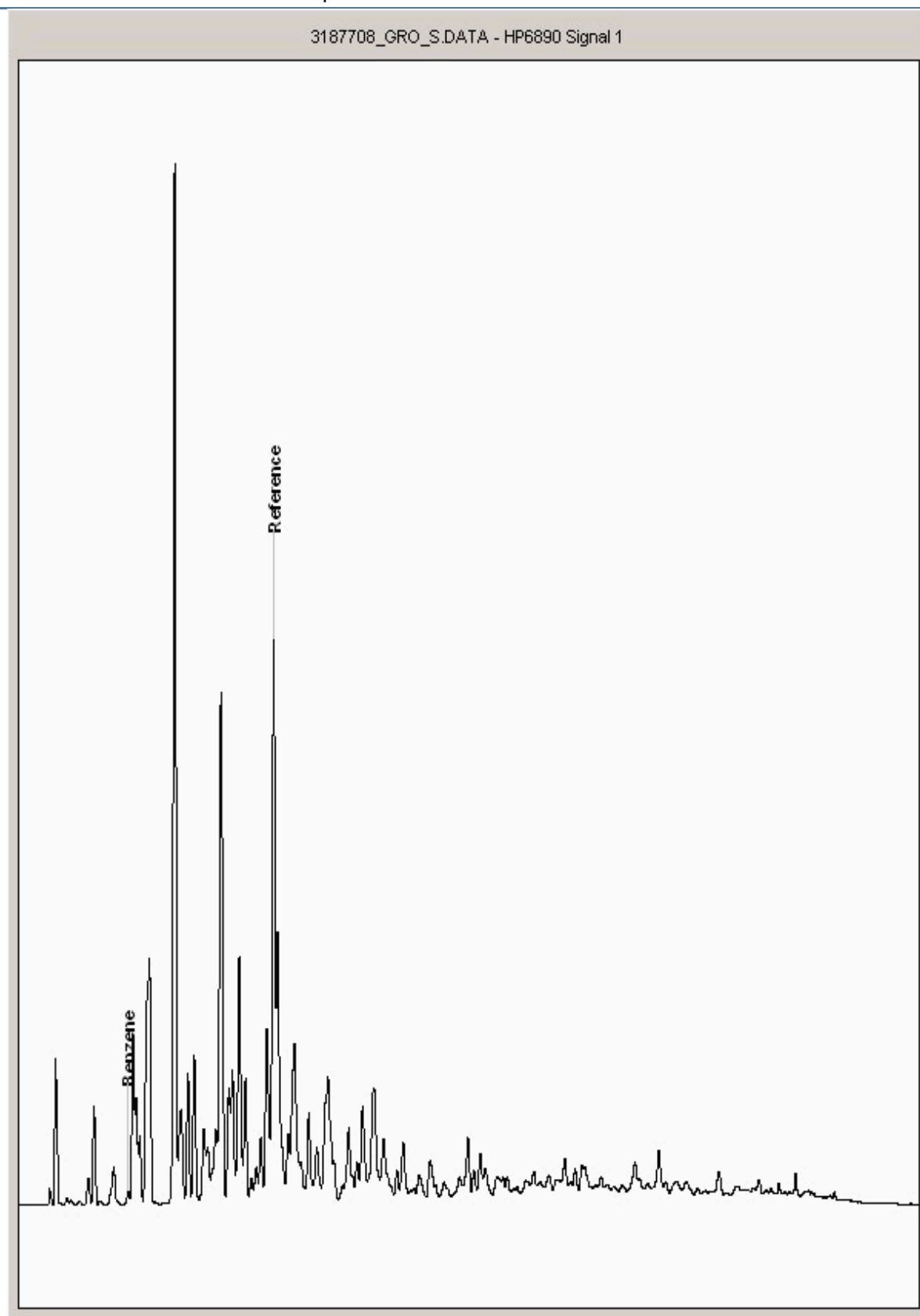
Order Number:
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187708
Sample ID : CATP031

Depth : 0.20





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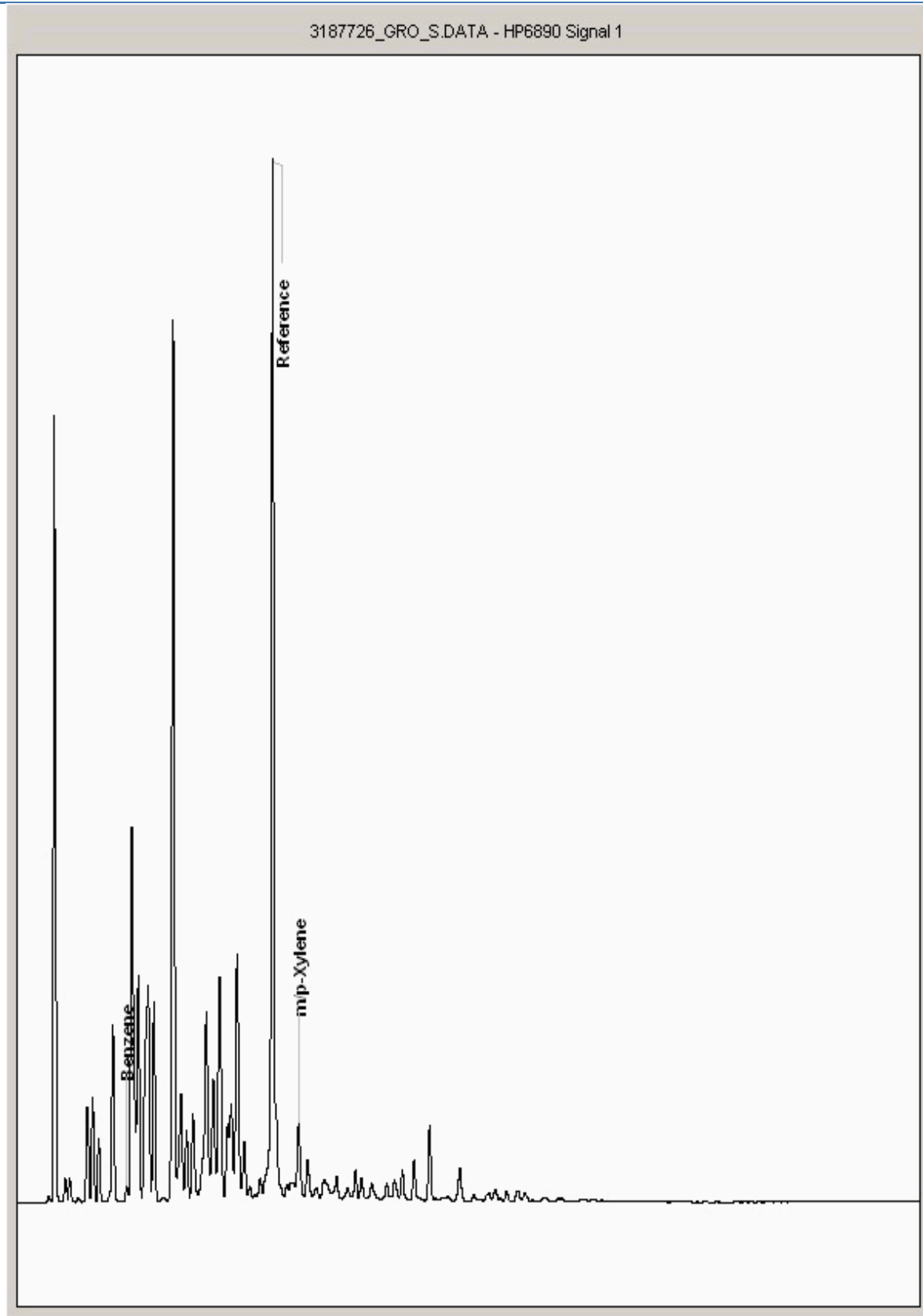
Order Number:
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187726
Sample ID : CATP031

Depth : 0.60





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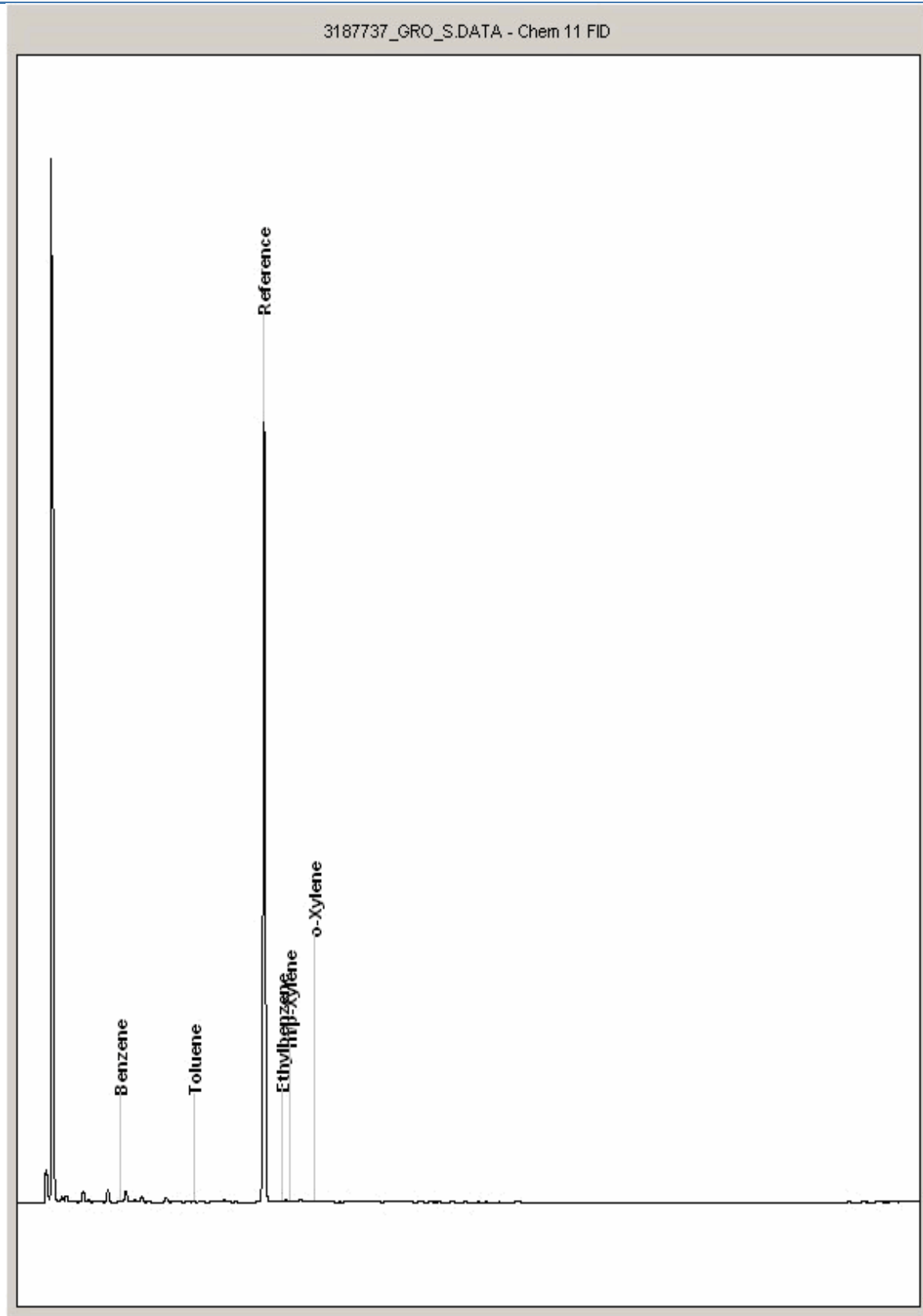
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187737
Sample ID : CATP031

Depth : 1.20





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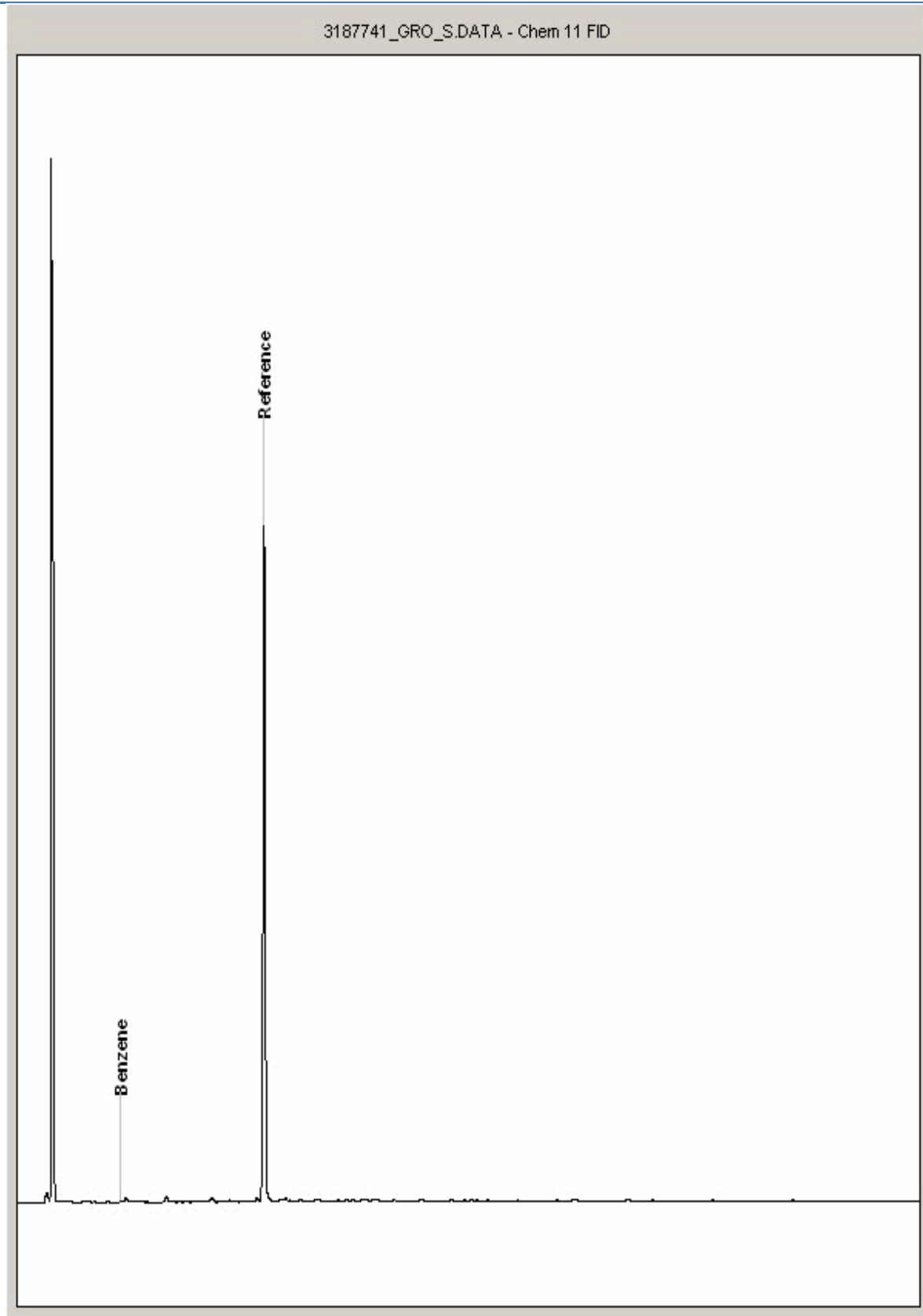
Order Number:
Report Number: 125242
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187741
Sample ID : CATP031

Depth : 2.20





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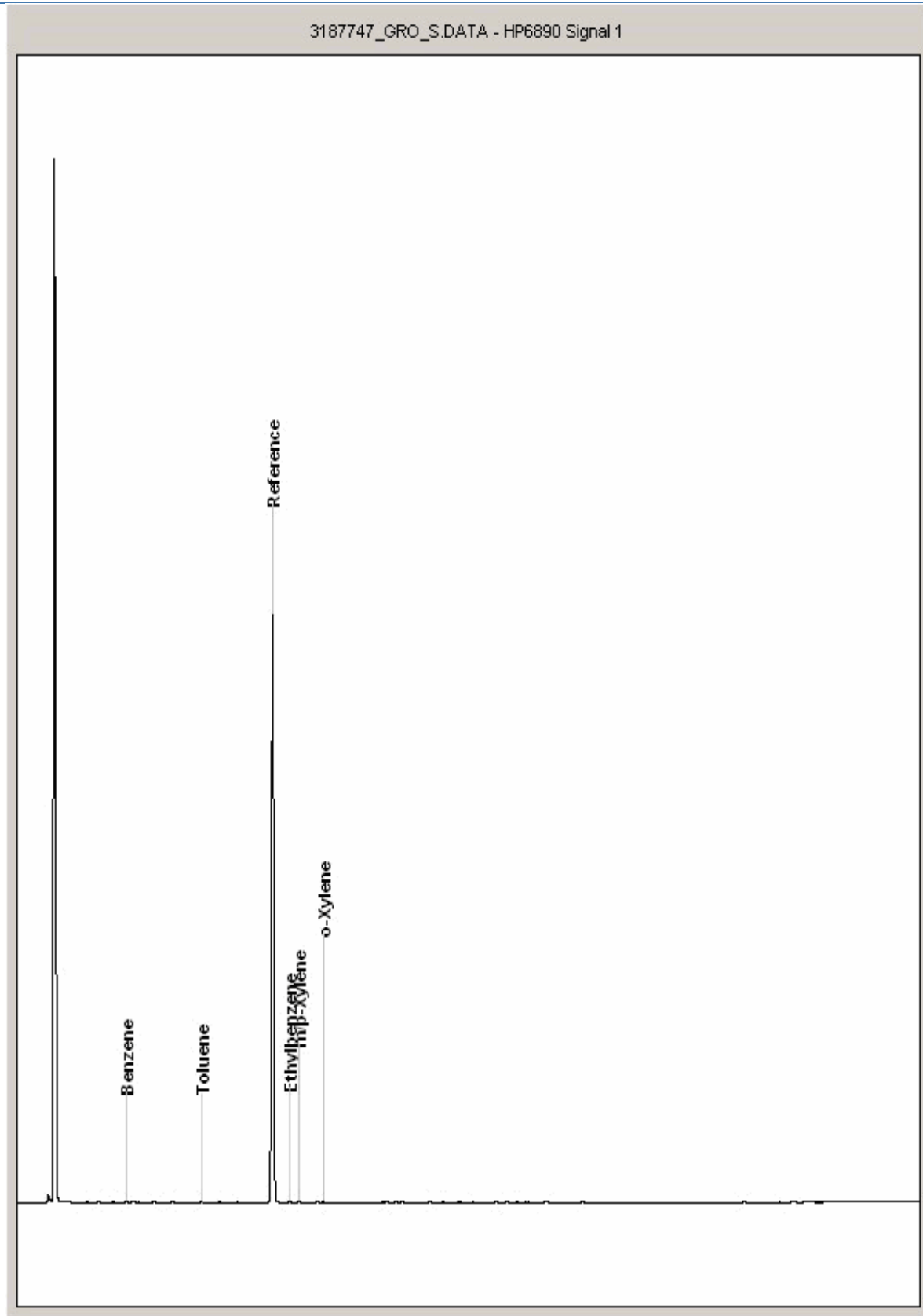
Order Number:
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187747
Sample ID : CATP033

Depth : 0.40





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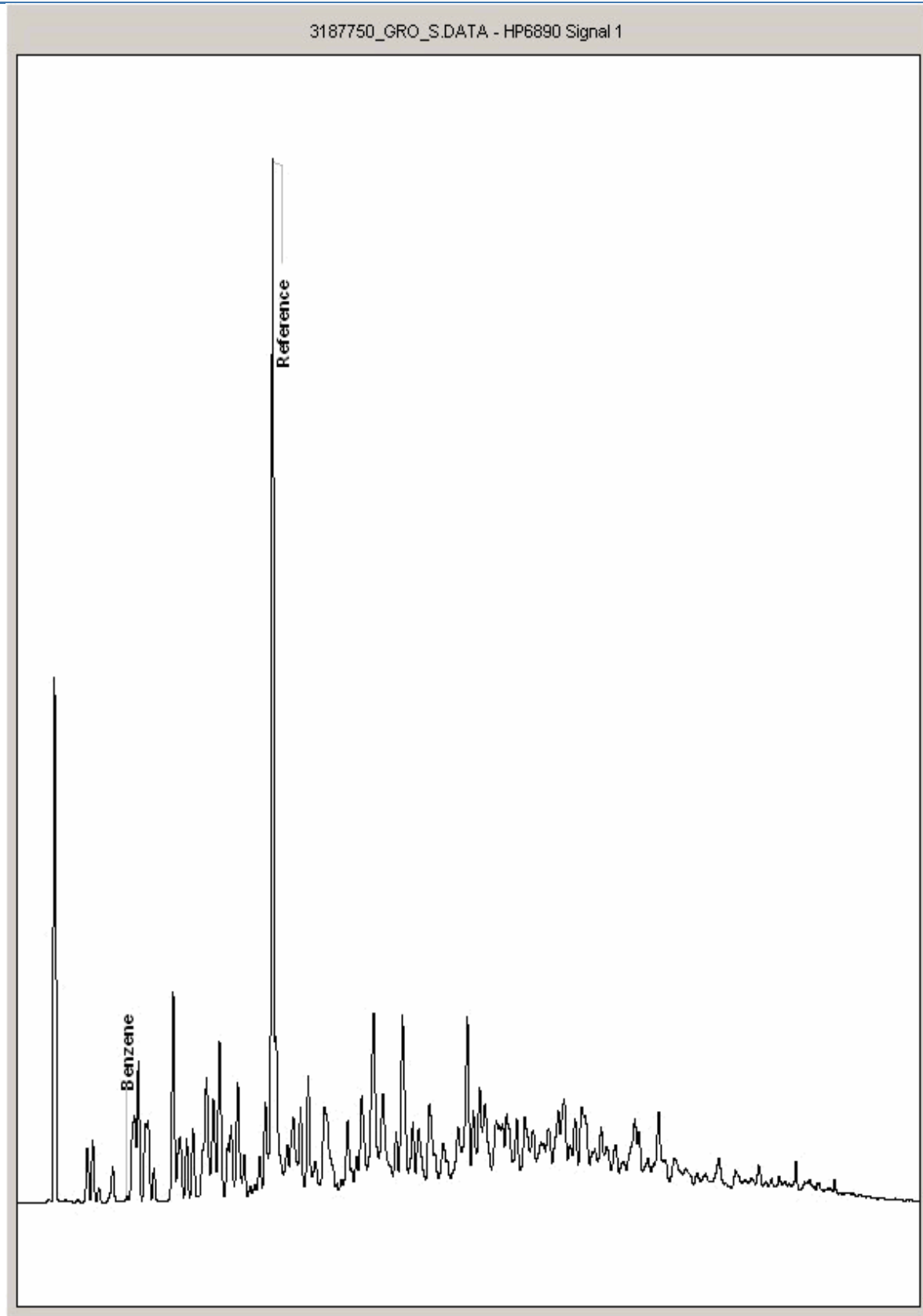
Order Number:
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187750
Sample ID : CATP033

Depth : 0.90





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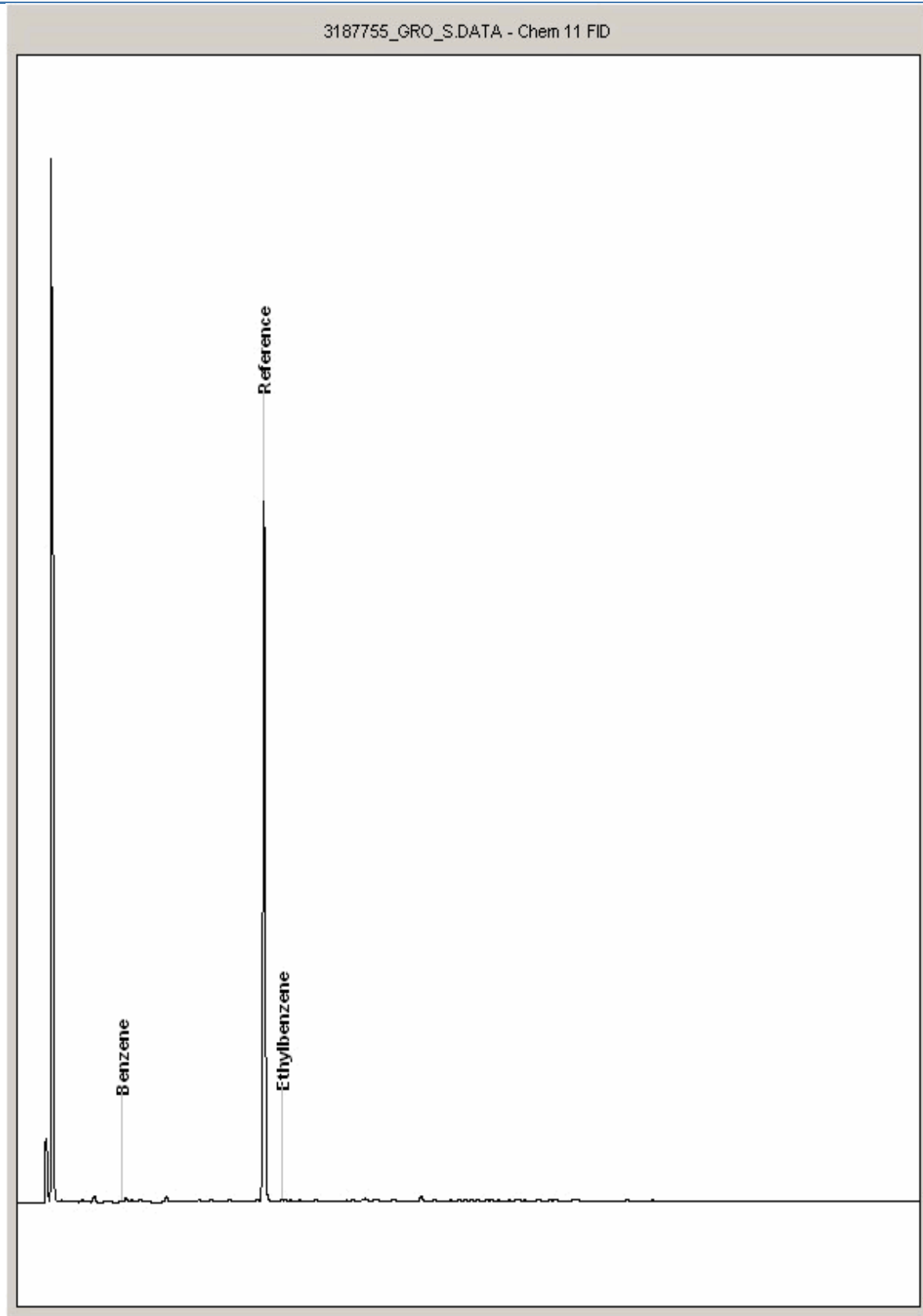
Order Number:
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187755
Sample ID : CATP033

Depth : 1.50





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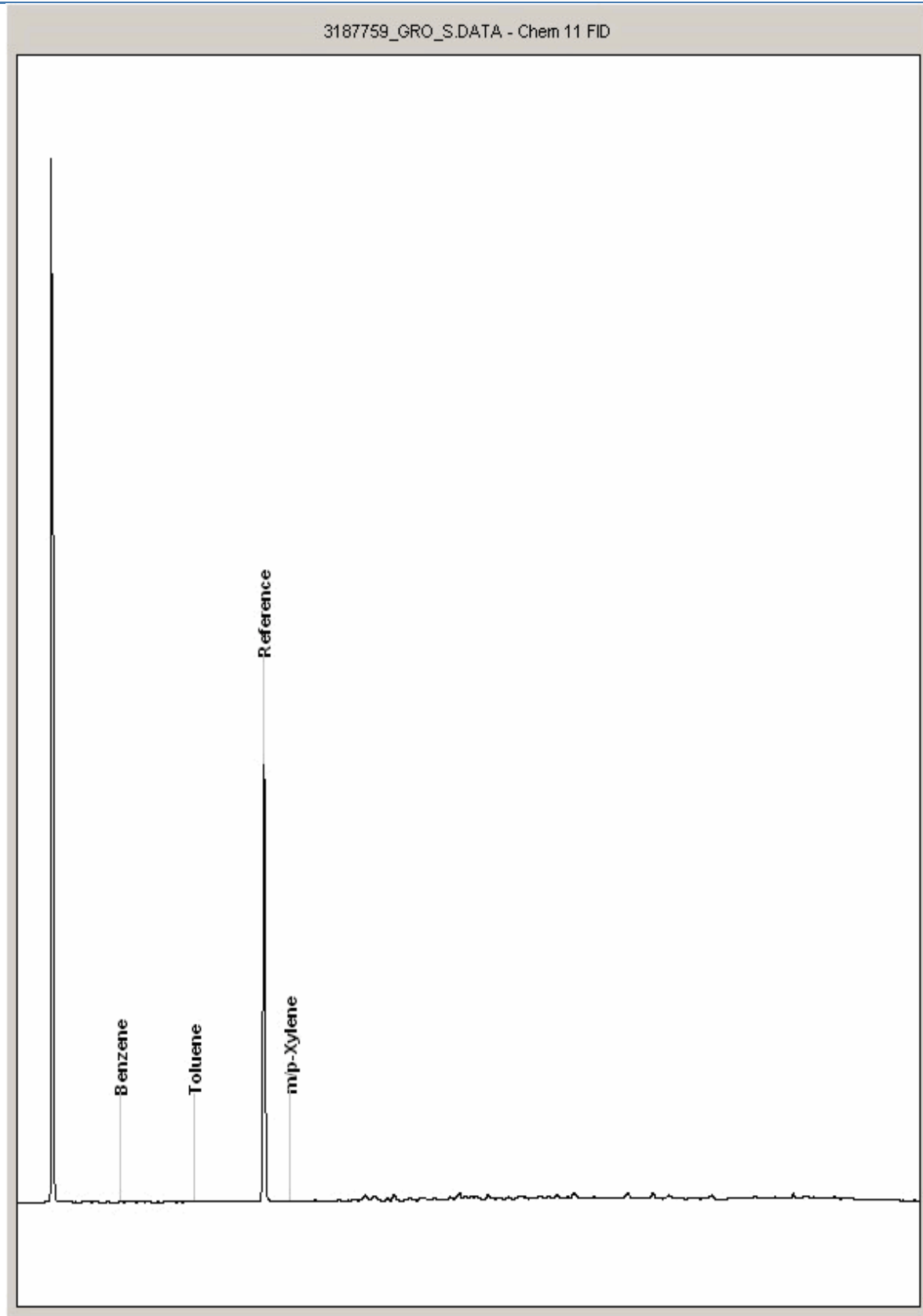
Order Number:
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187759
Sample ID : CATP043

Depth : 0.20





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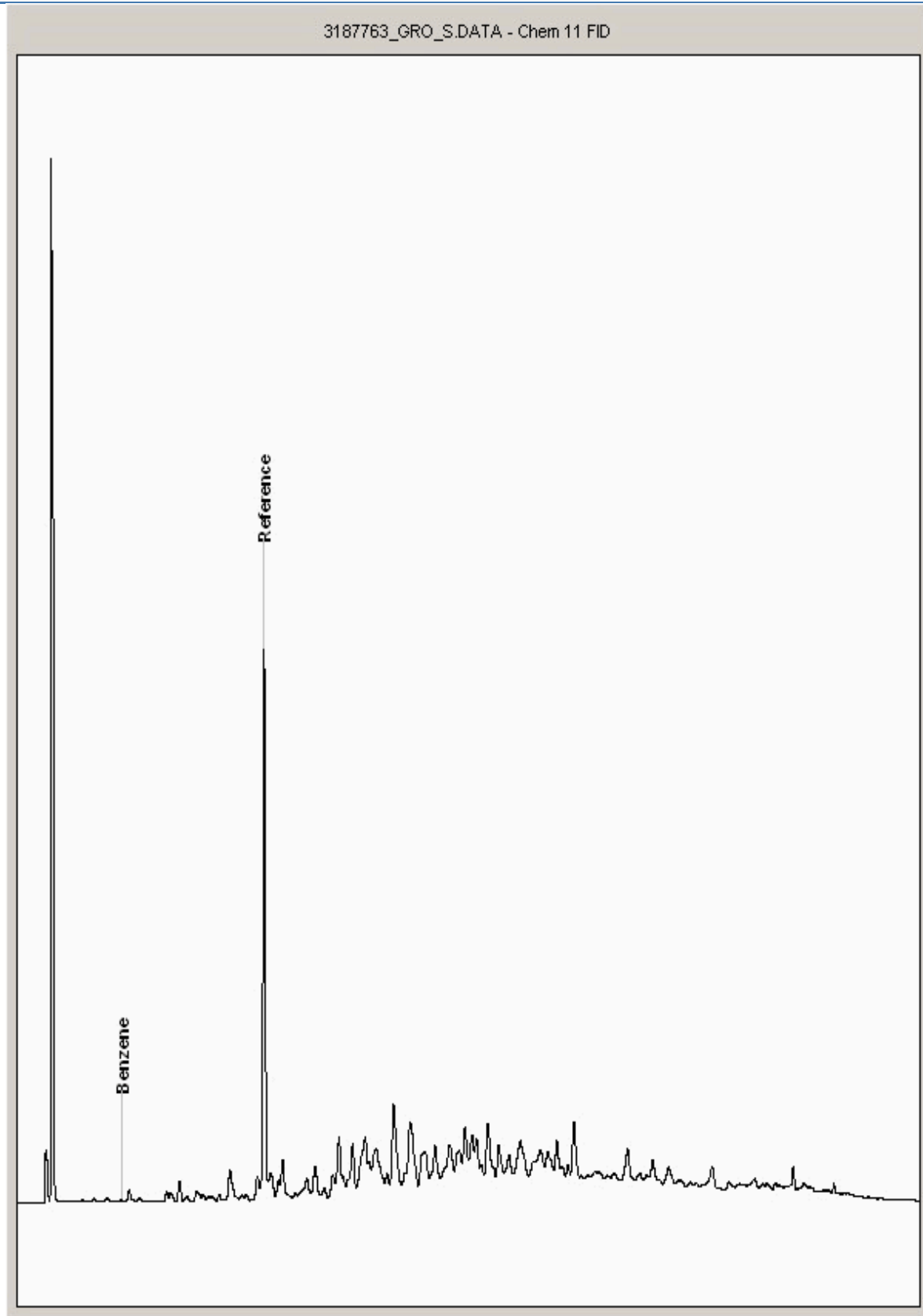
Order Number:
Report Number: 125242
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187763
Sample ID : CATP043

Depth : 0.80





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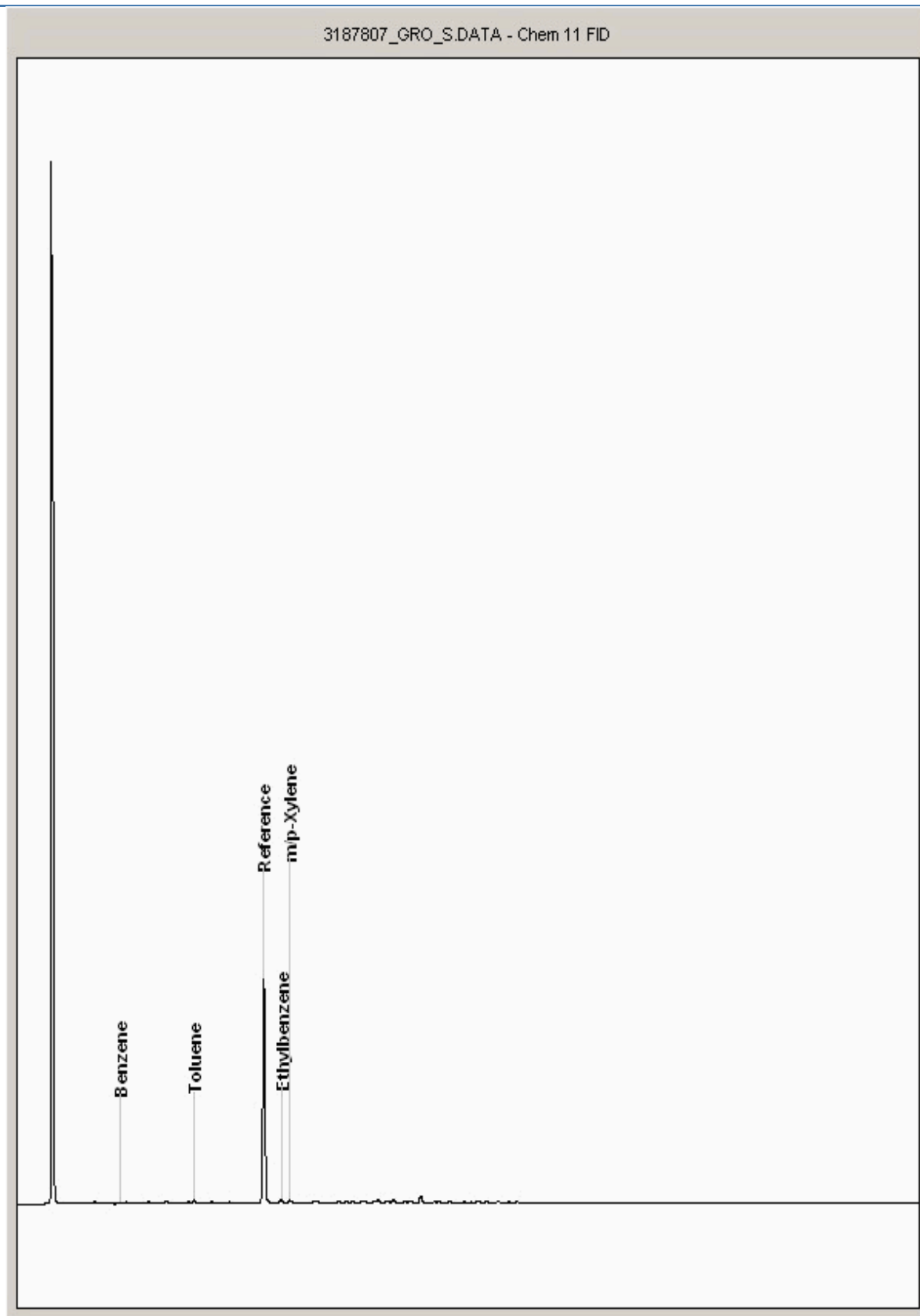
Order Number:
Report Number: 125242
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187807
Sample ID : CATP046

Depth : 0.90





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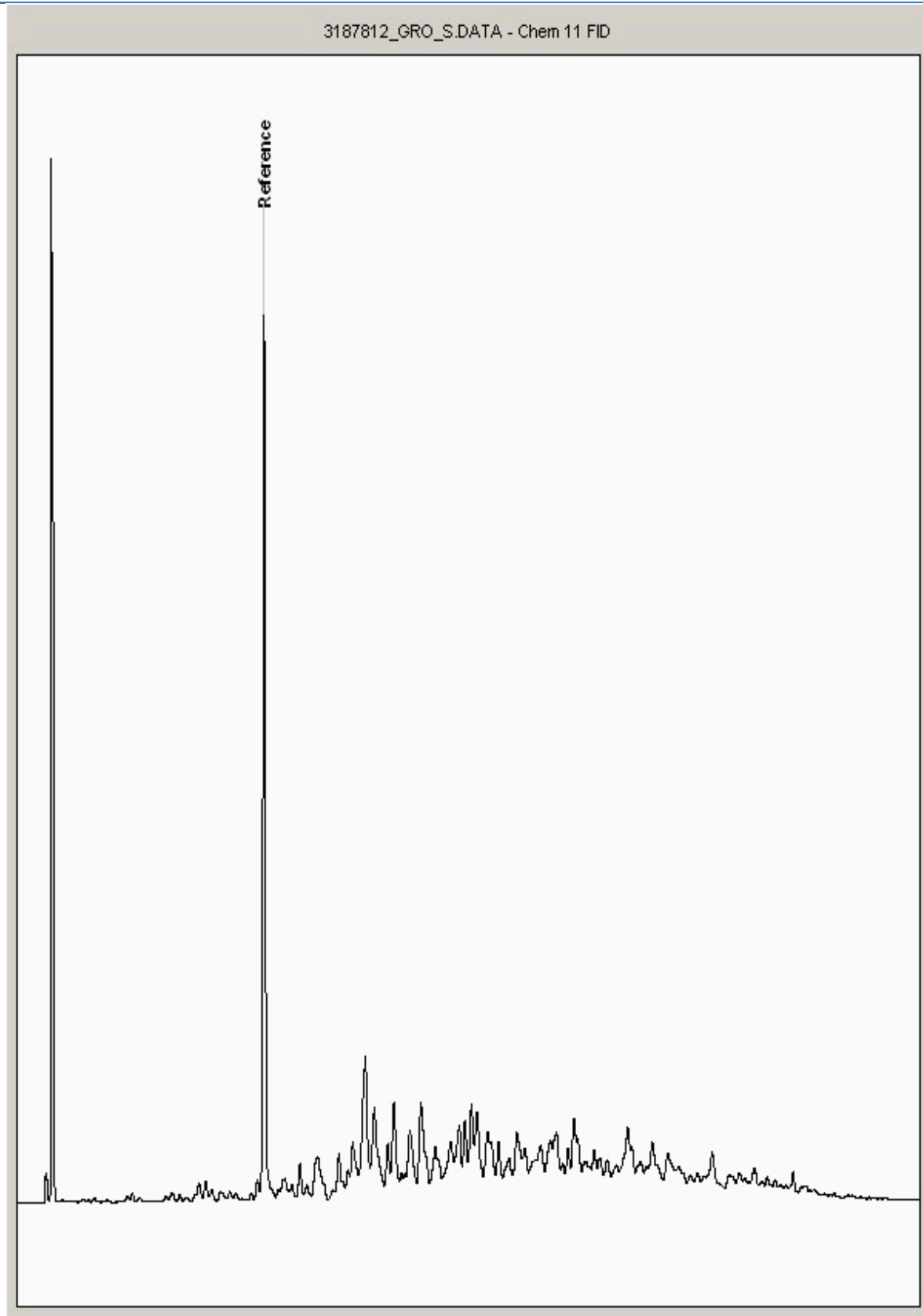
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187812
Sample ID : CATP046

Depth : 1.60





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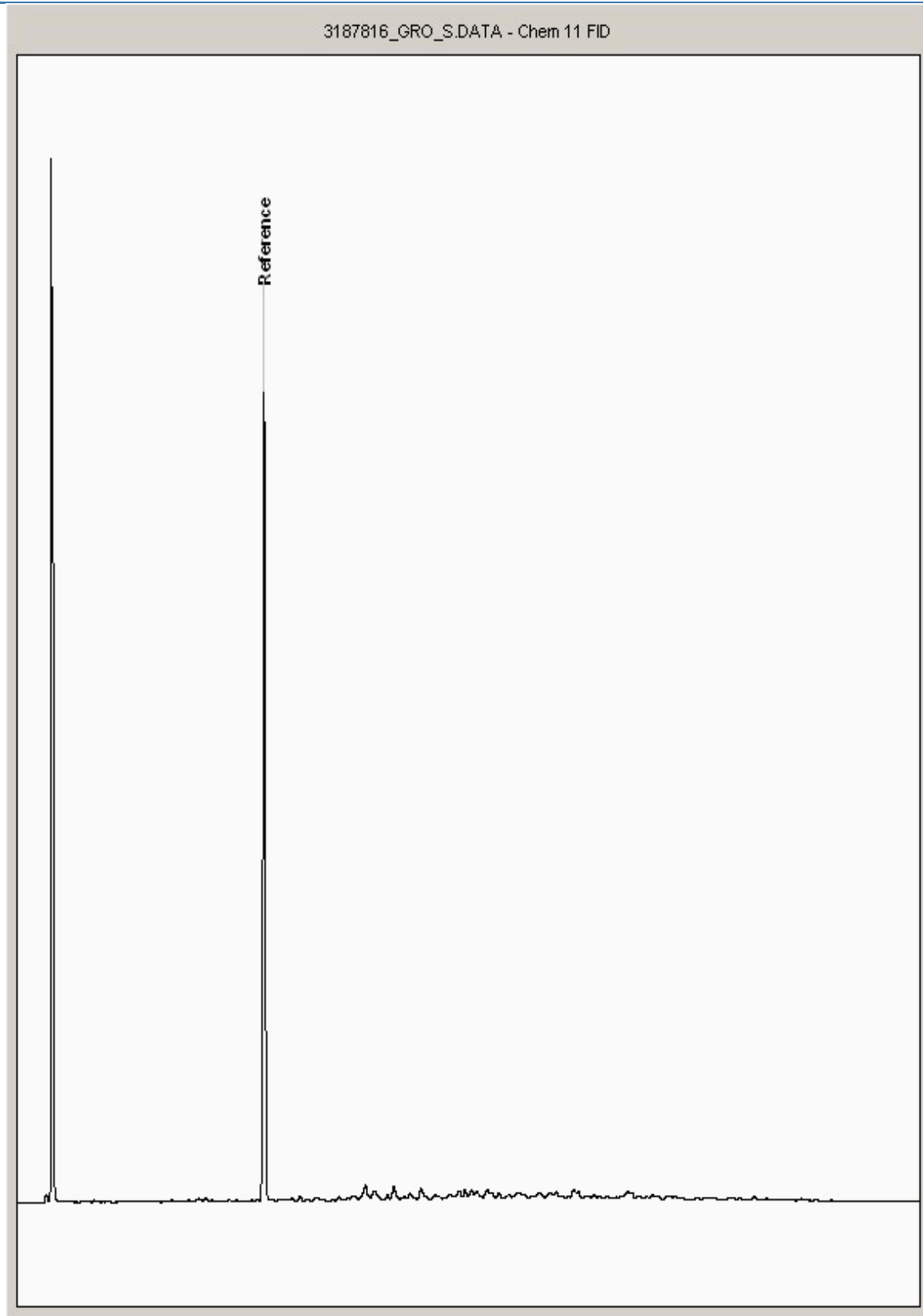
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187816
Sample ID : CATP046

Depth : 3.00





SDG: 110330-44
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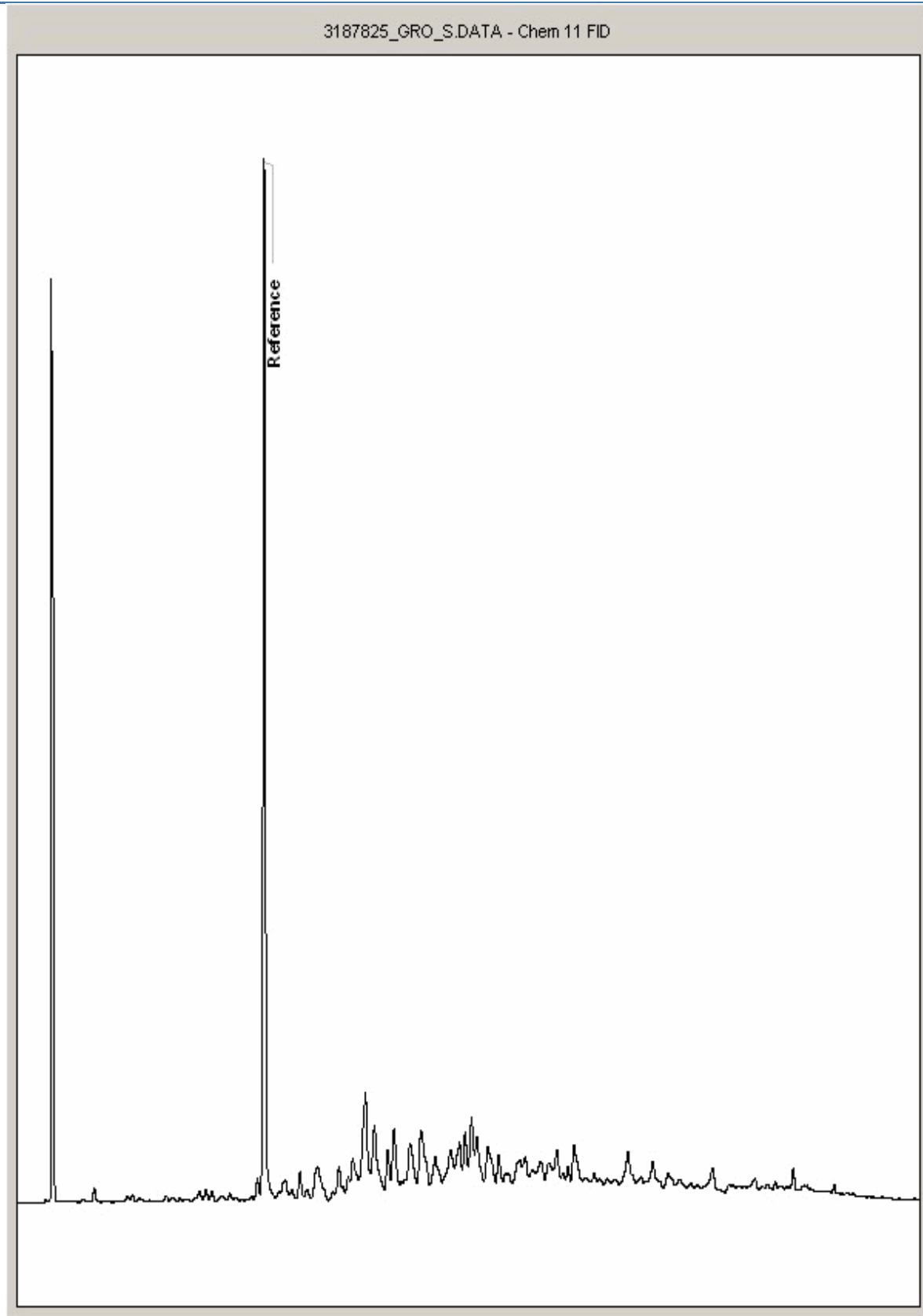
Order Number:
Report Number: 125242
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187825
Sample ID : CATP047

Depth : 1.50





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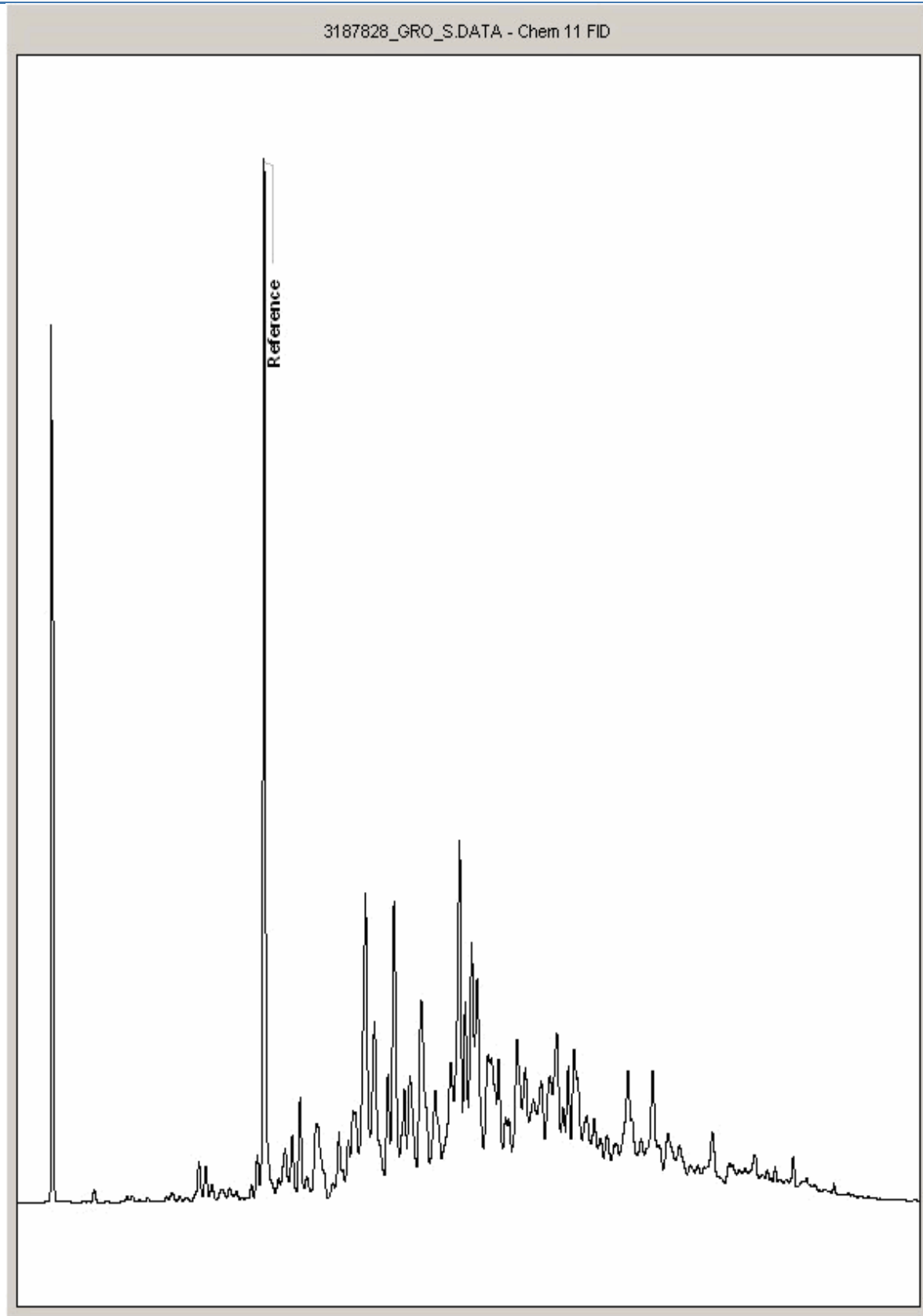
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187828
Sample ID : CATP047

Depth : 2.20





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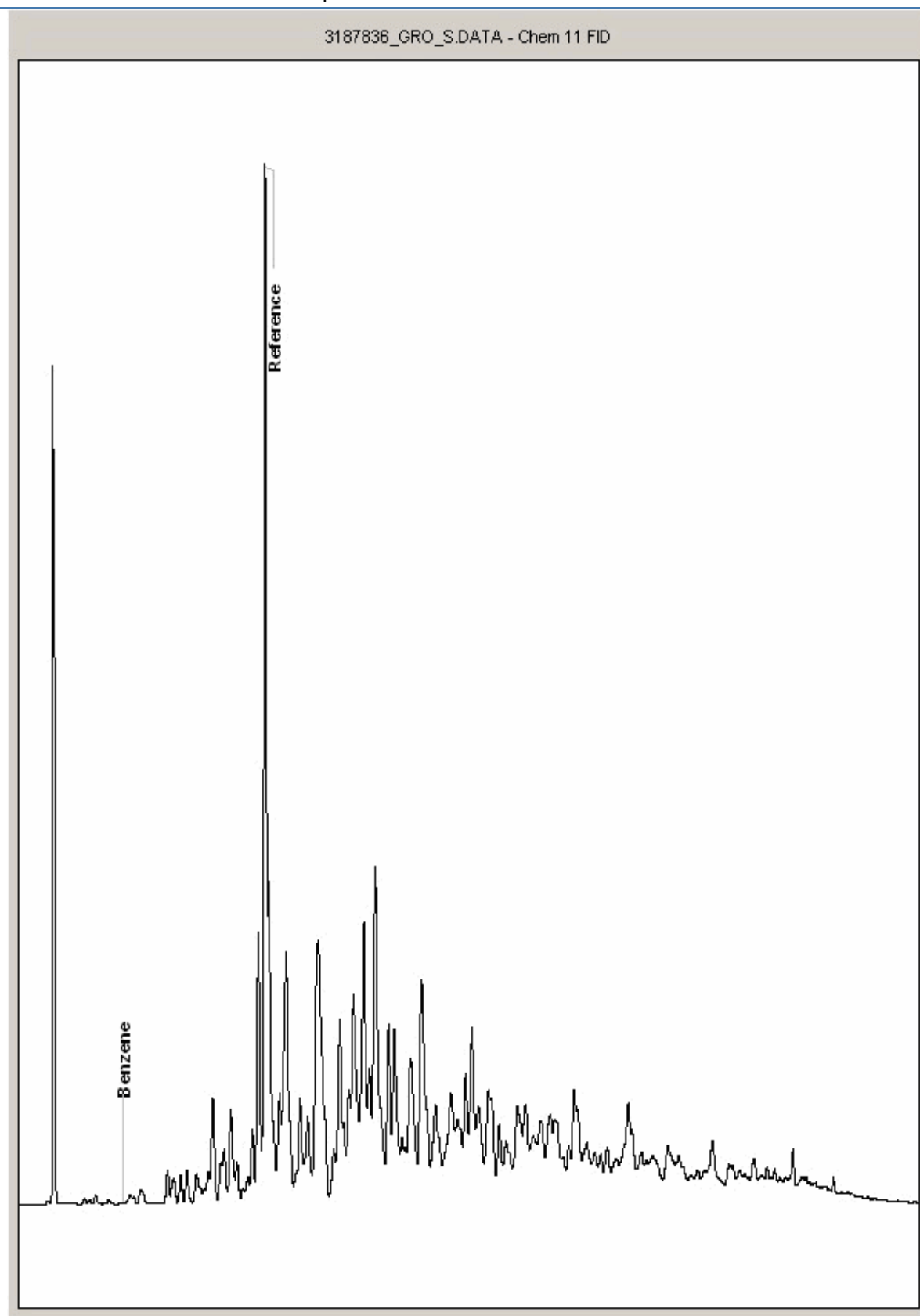
Order Number:
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187836
Sample ID : CATP048

Depth : 0.70





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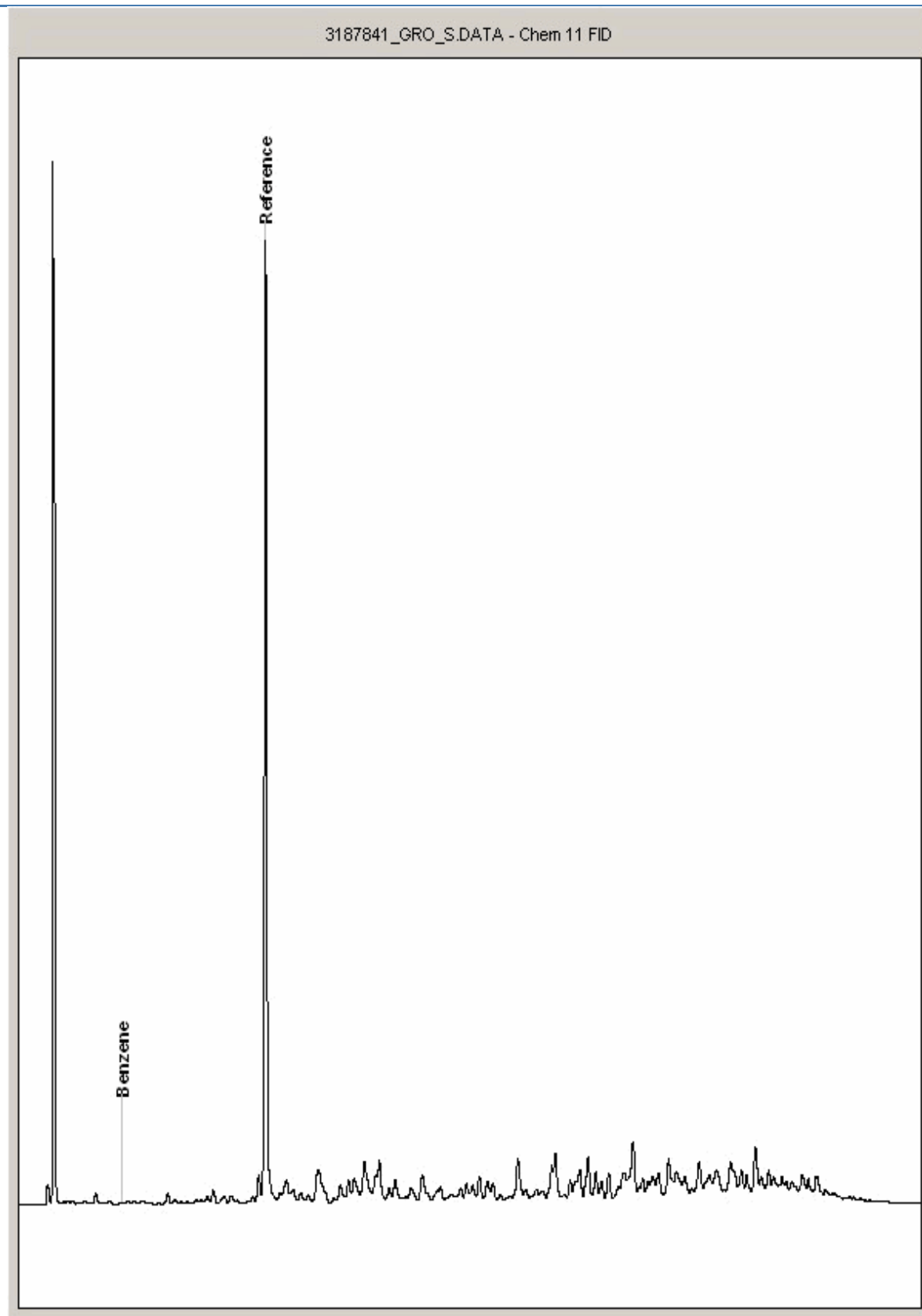
Order Number:
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Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187841
Sample ID : CATP048

Depth : 2.30





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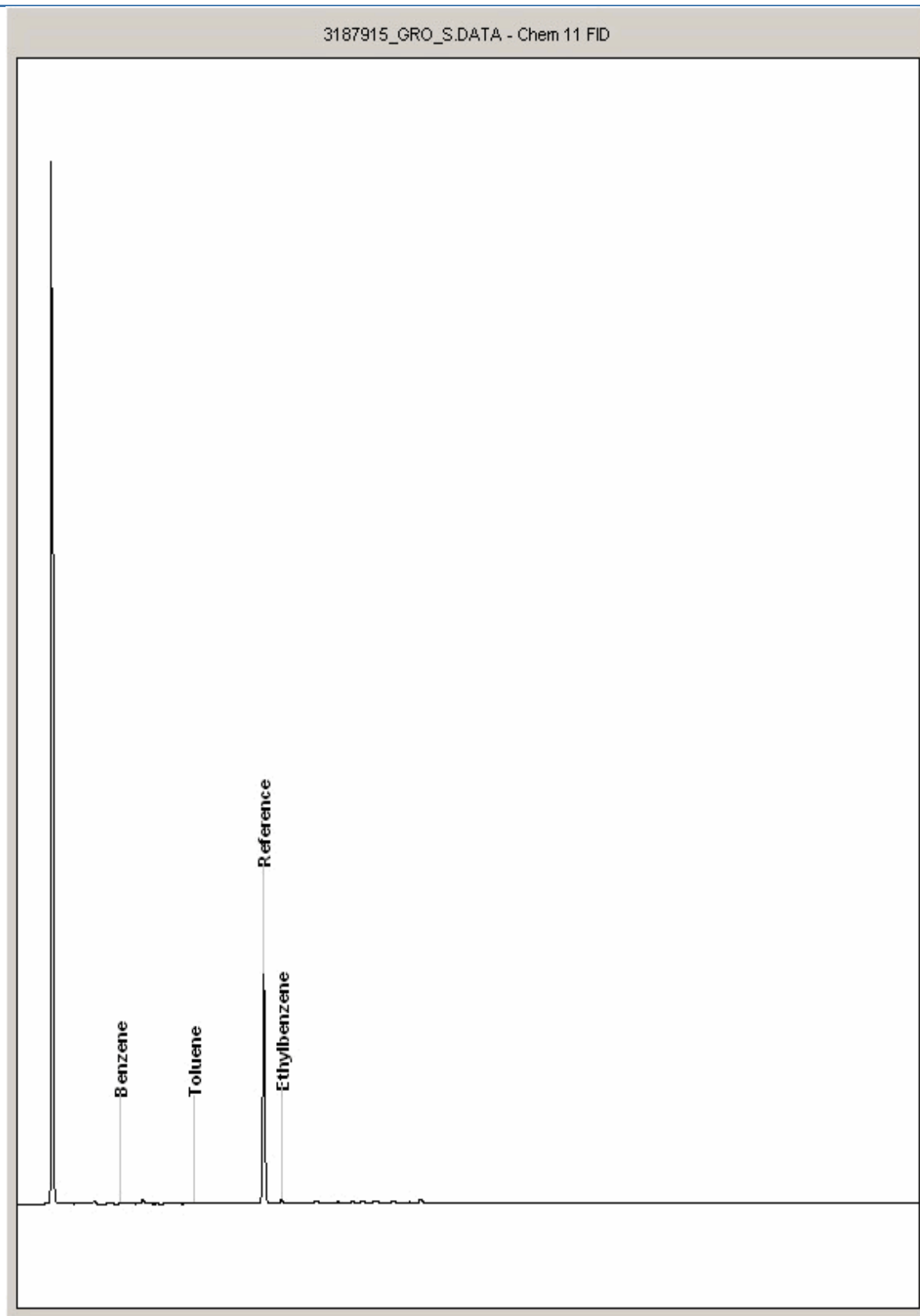
Order Number:
Report Number: 125242
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187915
Sample ID : CATP058

Depth : 0.40





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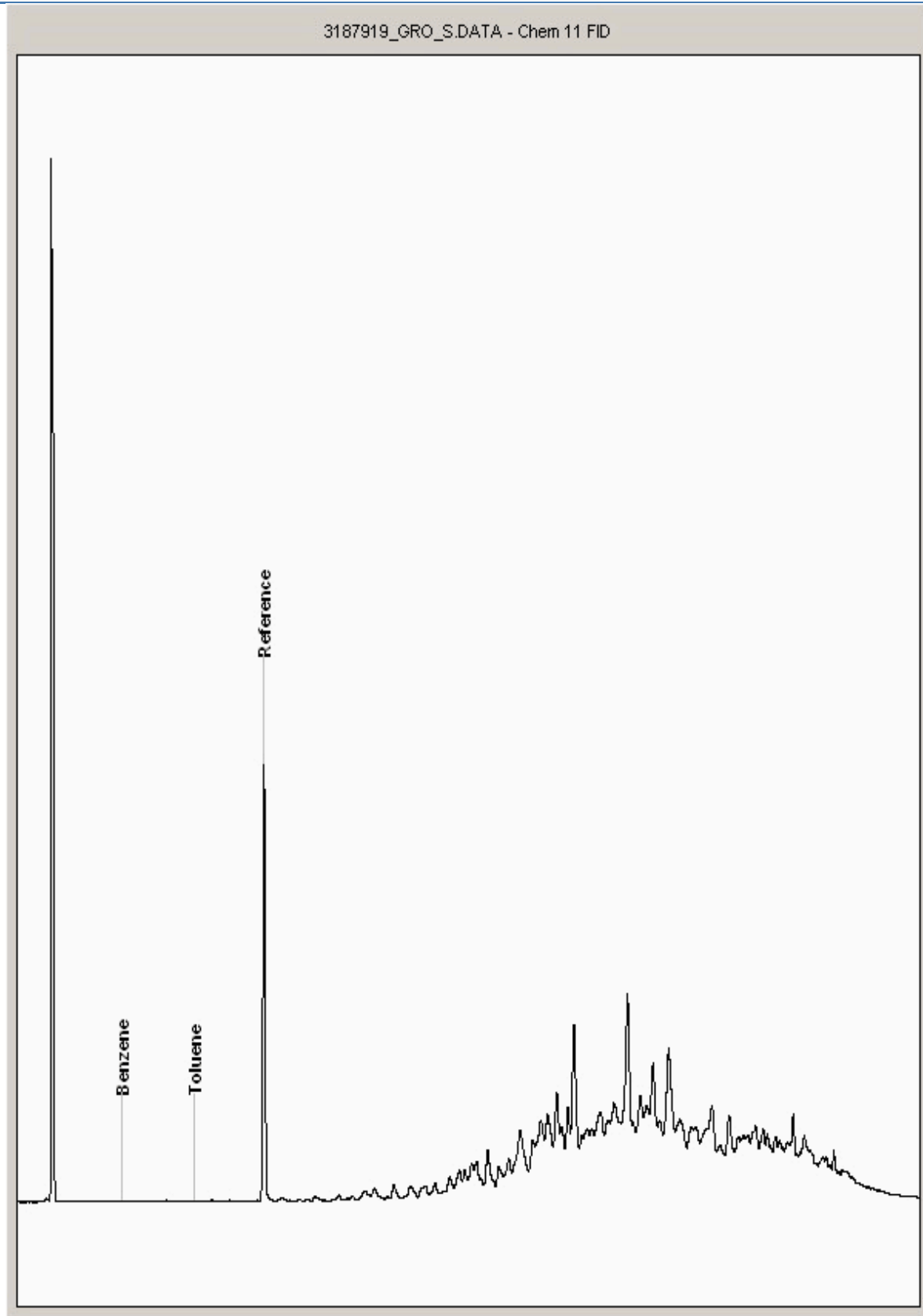
Order Number:
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187919
Sample ID : CATP058

Depth : 0.90





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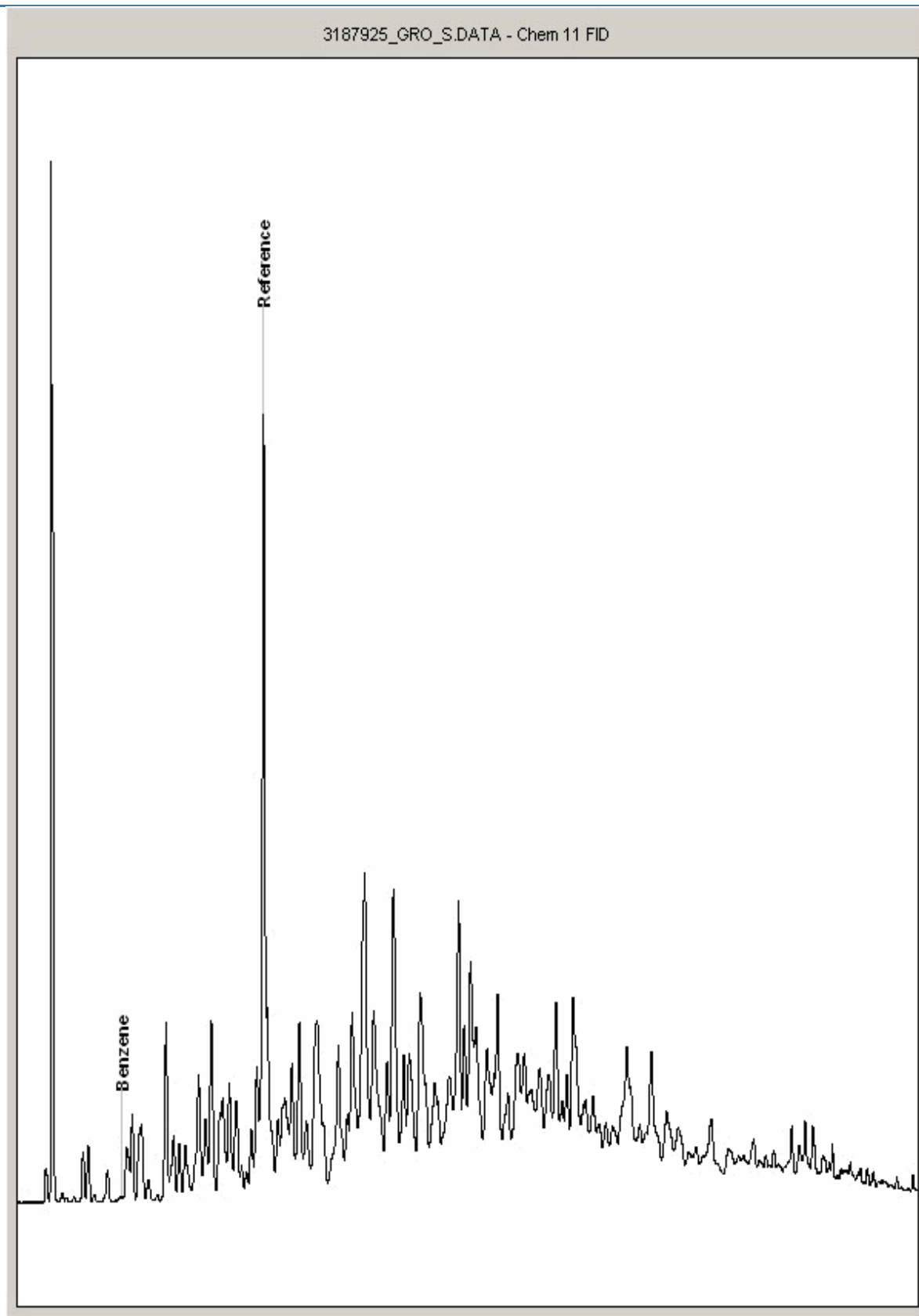
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187925
Sample ID : CATP058

Depth : 2.30





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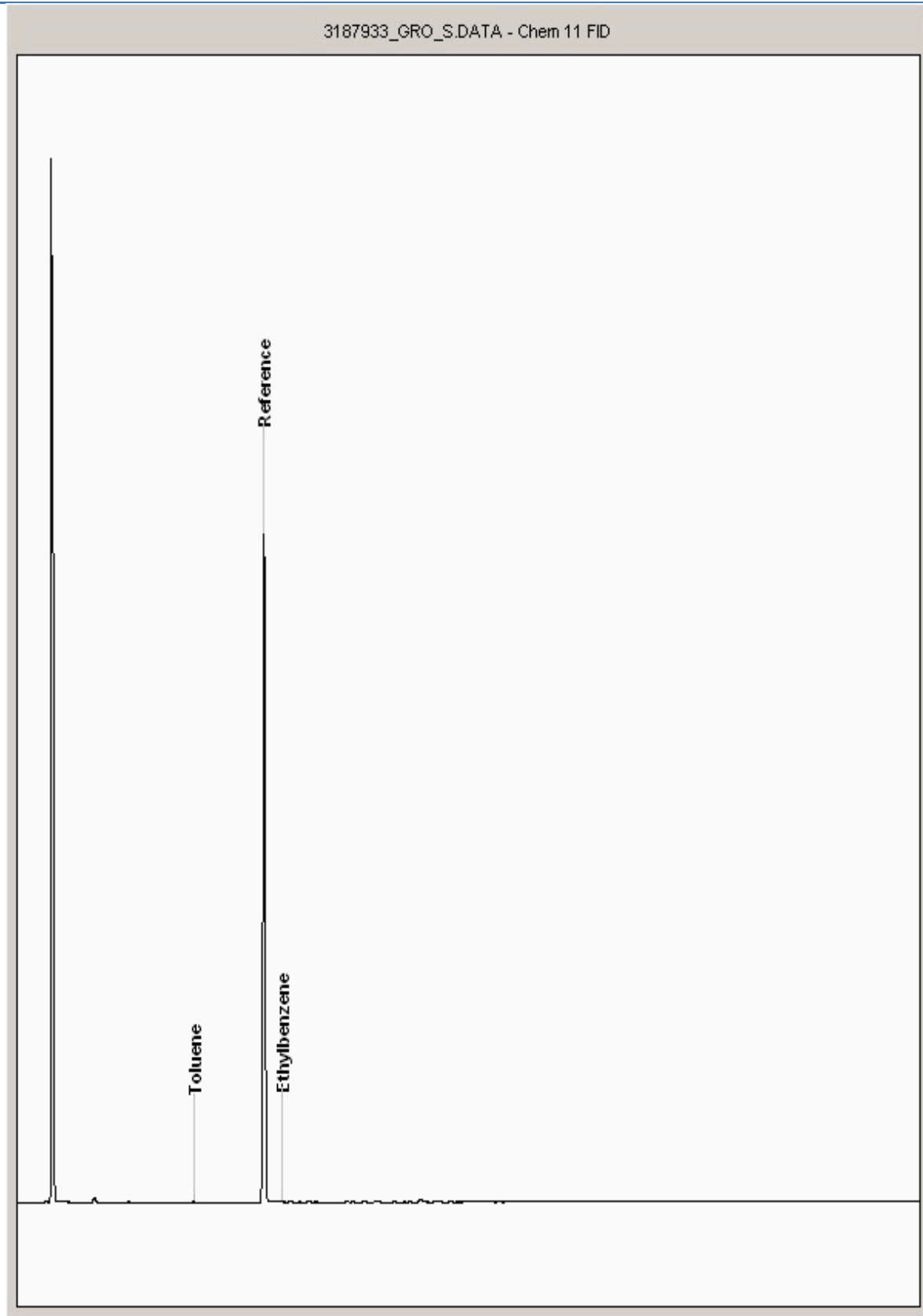
Order Number:
Report Number: 125242
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187933
Sample ID : CATP059

Depth : 1.20





SDG: 110330-44
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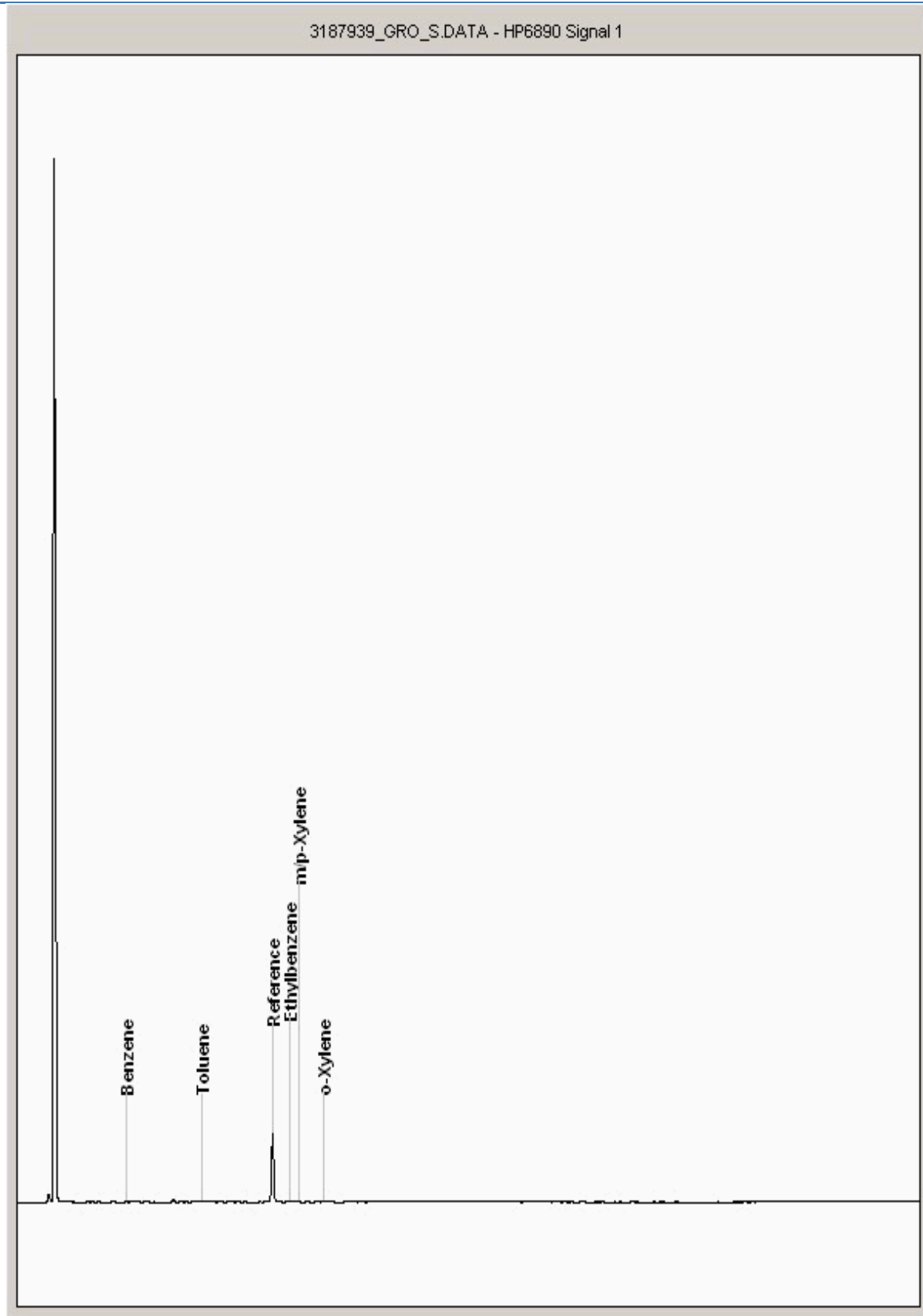
Order Number:
Report Number: 125242
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187939
Sample ID : CATP065

Depth : 0.40





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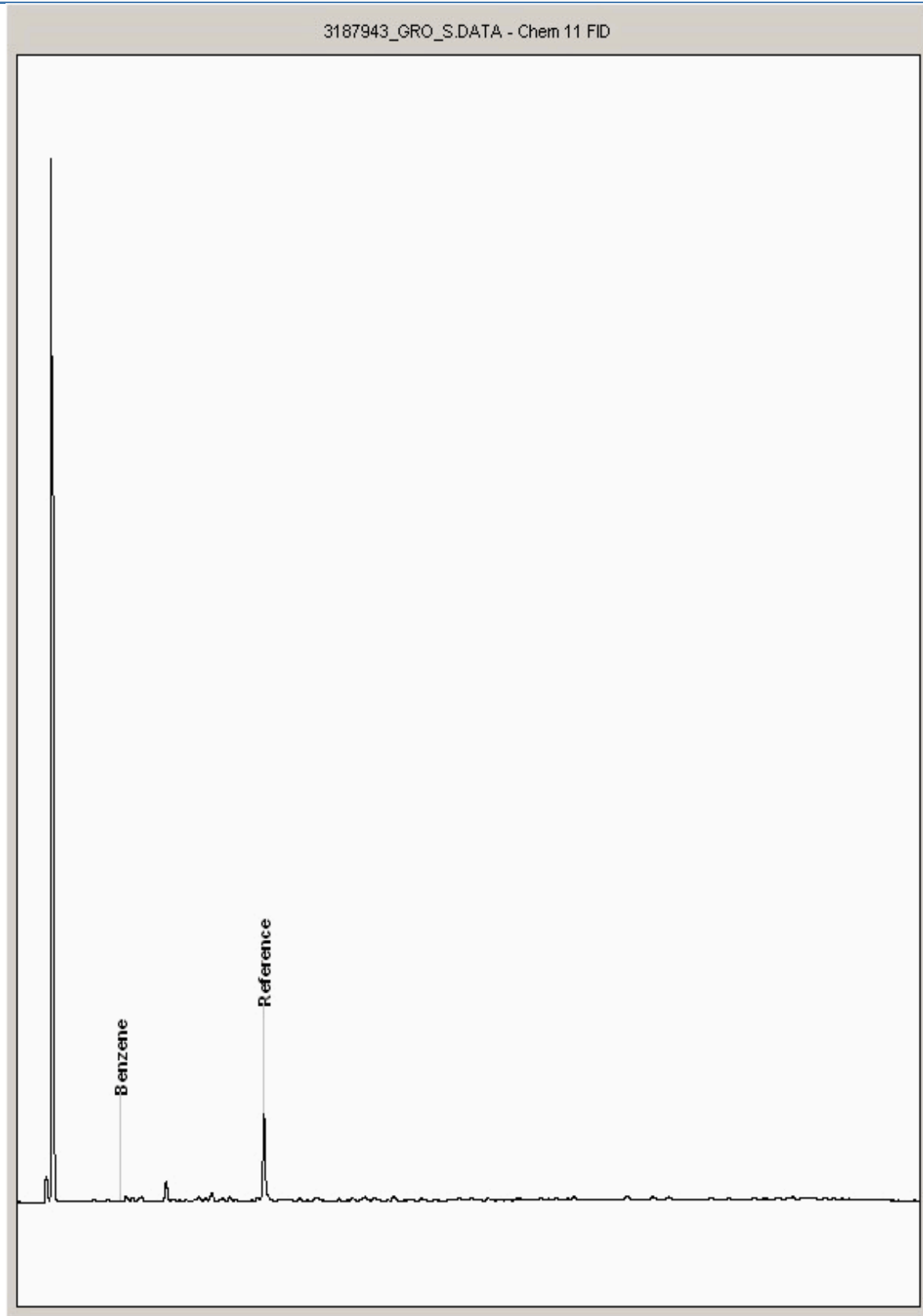
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187943
Sample ID : CATP066

Depth : 0.40





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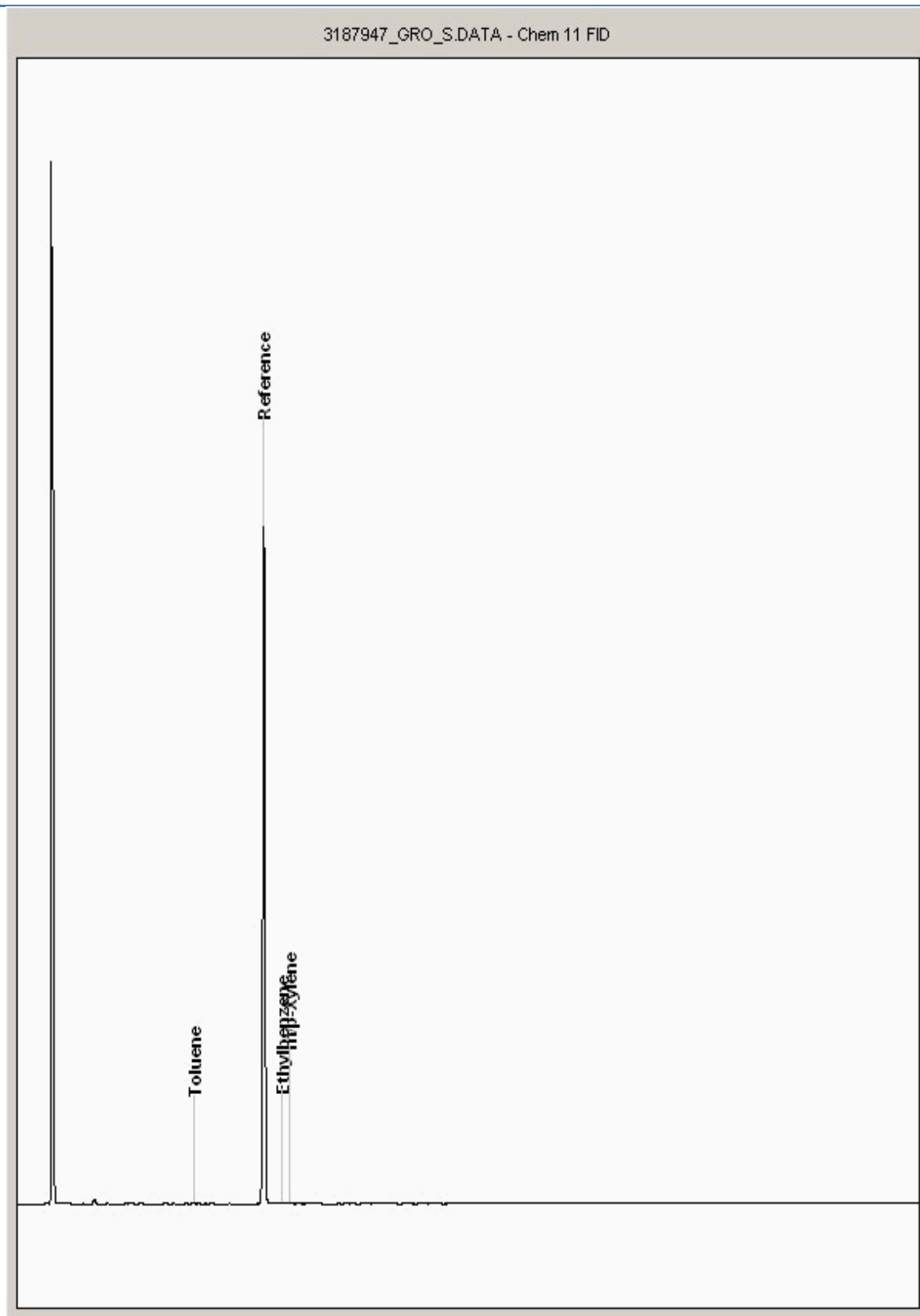
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187947
Sample ID : CATP066

Depth : 0.80





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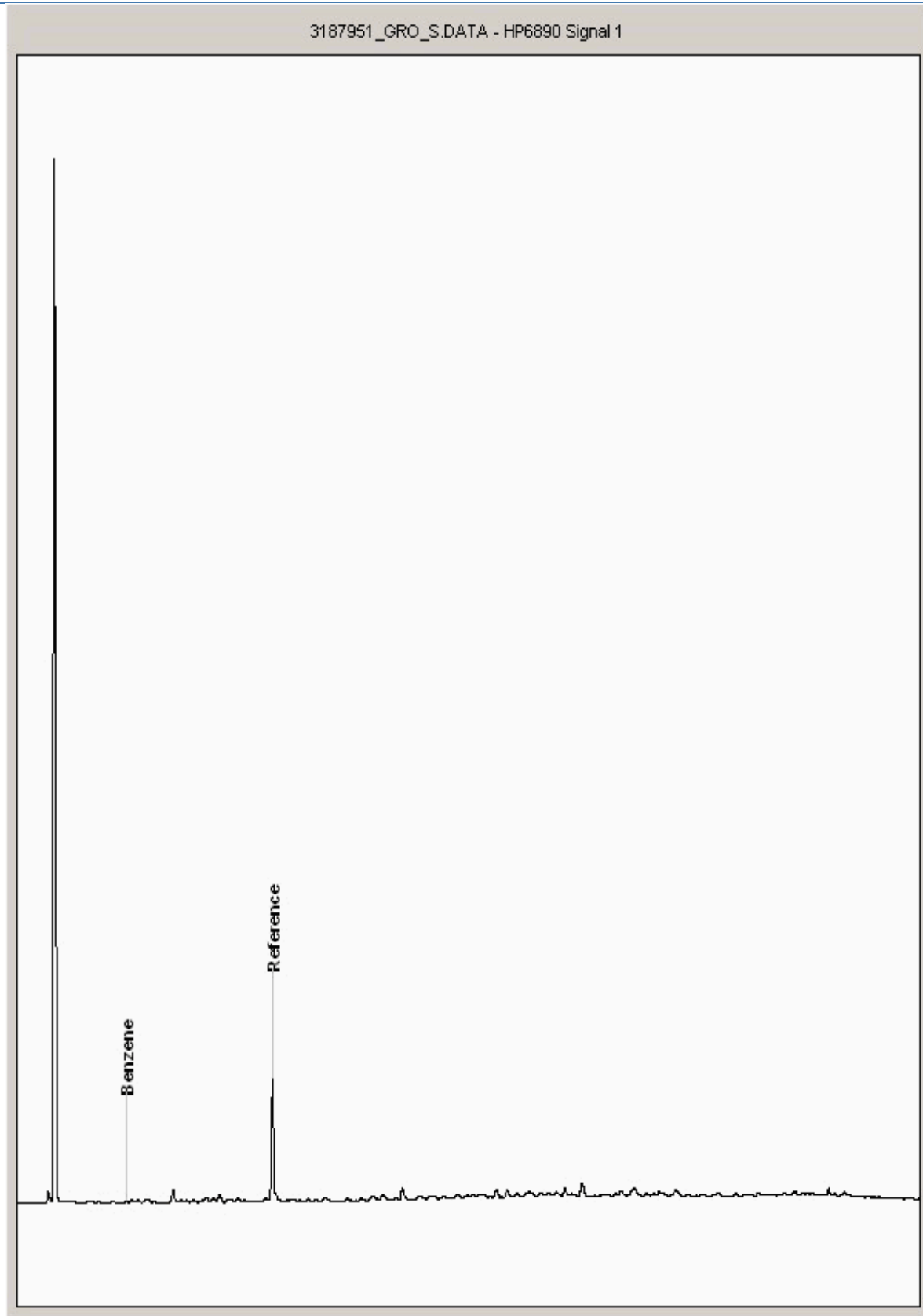
Order Number:
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187951
Sample ID : CATP067

Depth : 0.50





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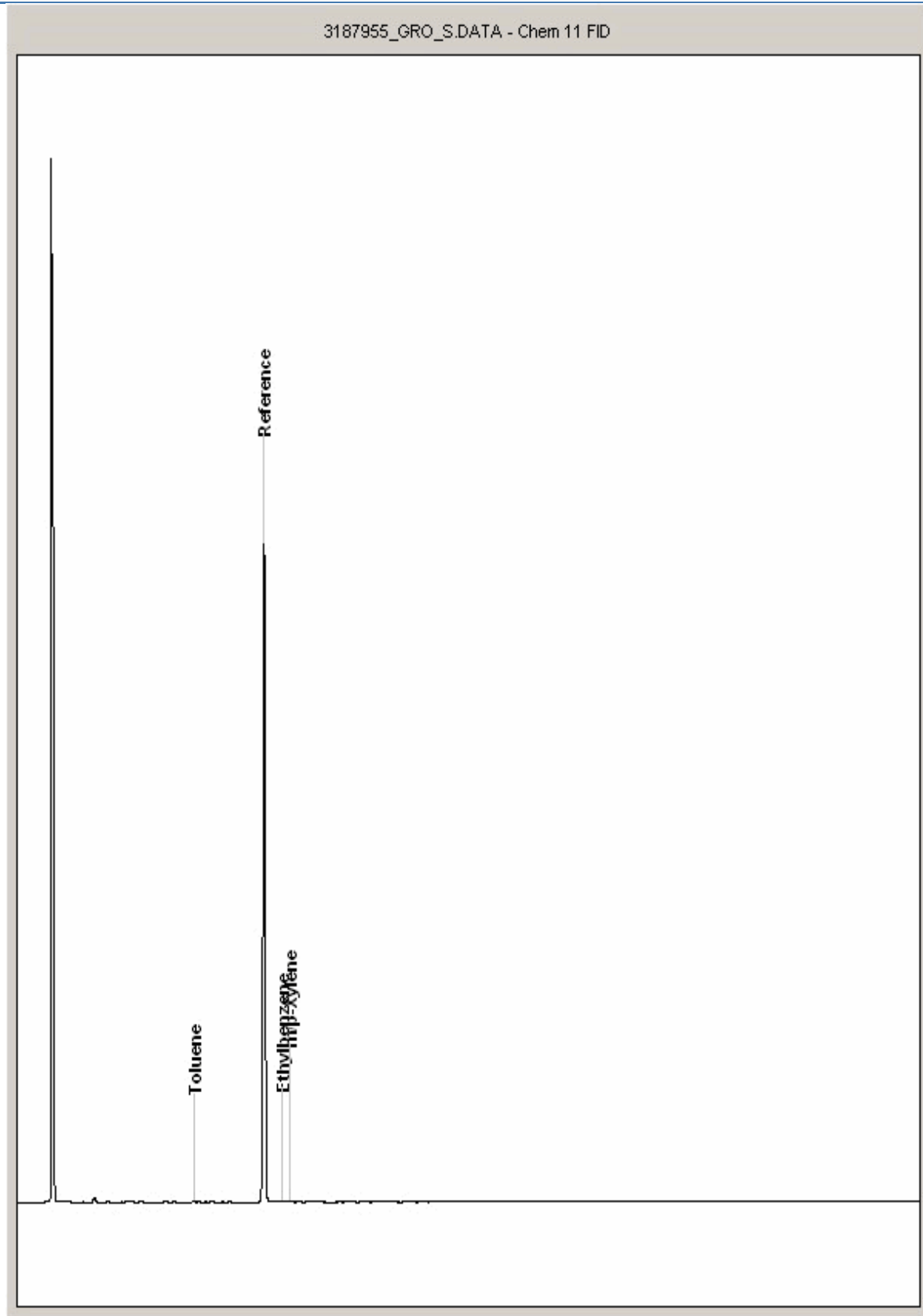
Order Number:
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Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3187955
Sample ID : CATP067

Depth : 0.90





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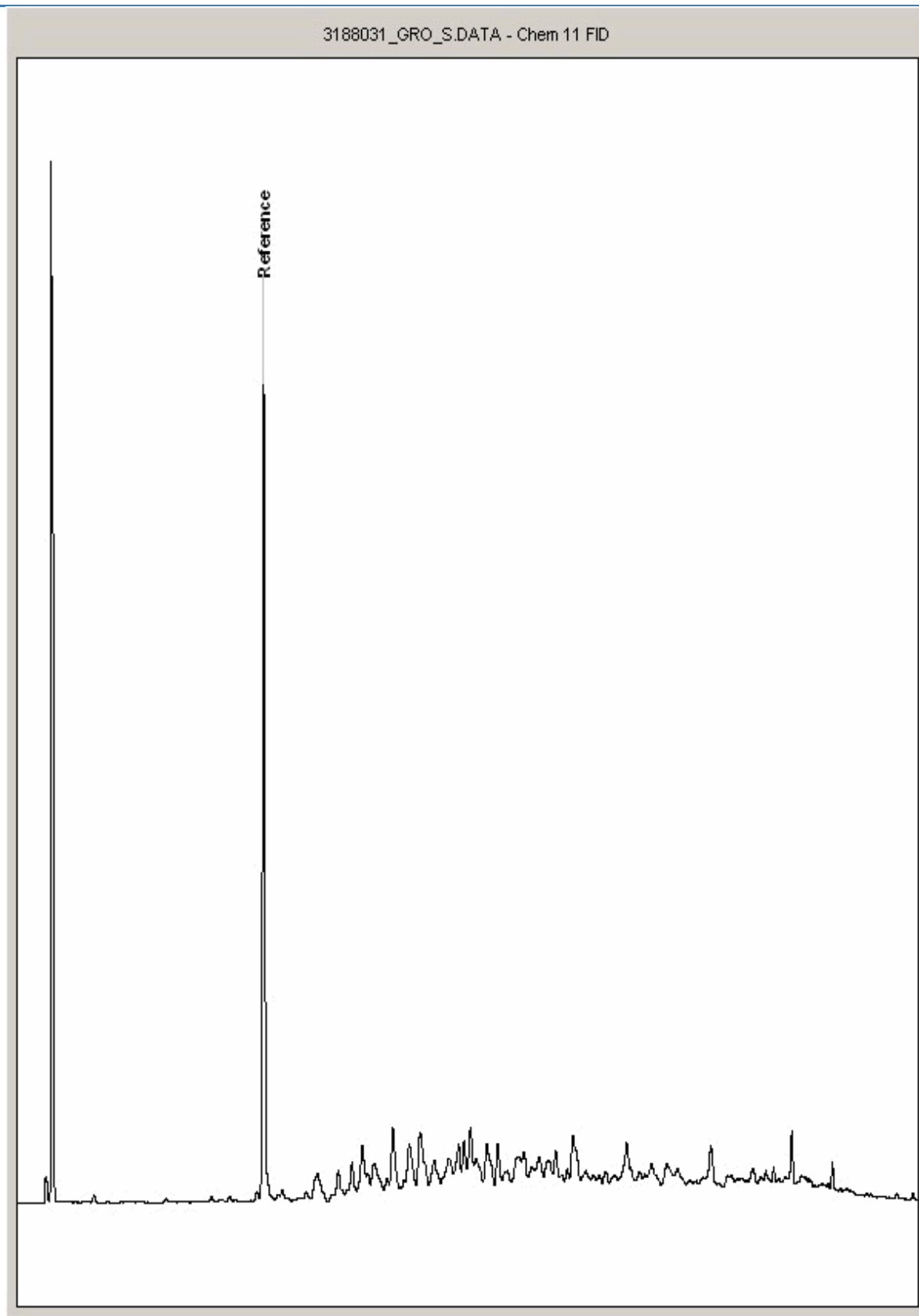
Order Number:
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188031
Sample ID : CATP036

Depth : 0.90





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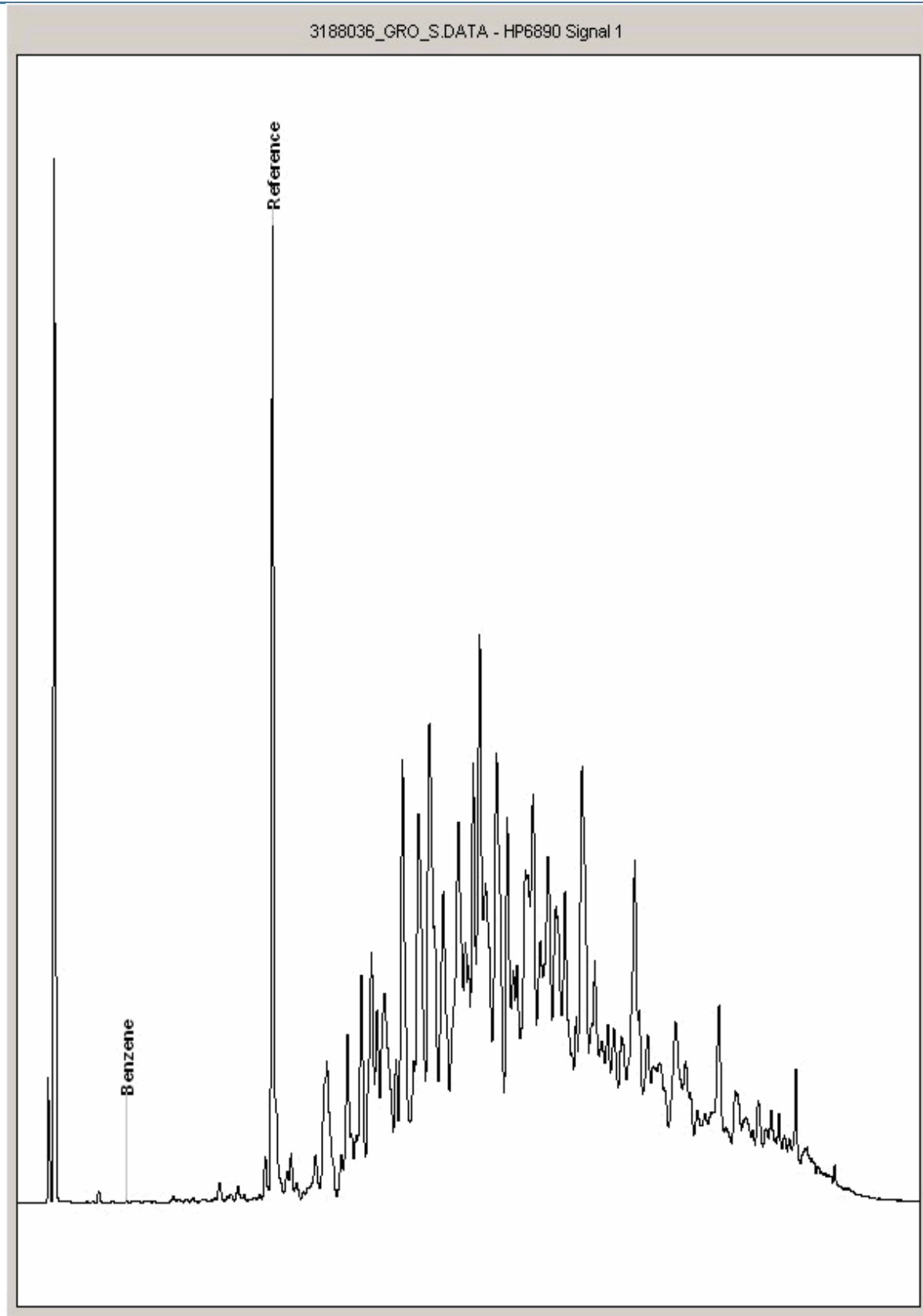
Order Number:
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188036
Sample ID : CATP036

Depth : 1.20





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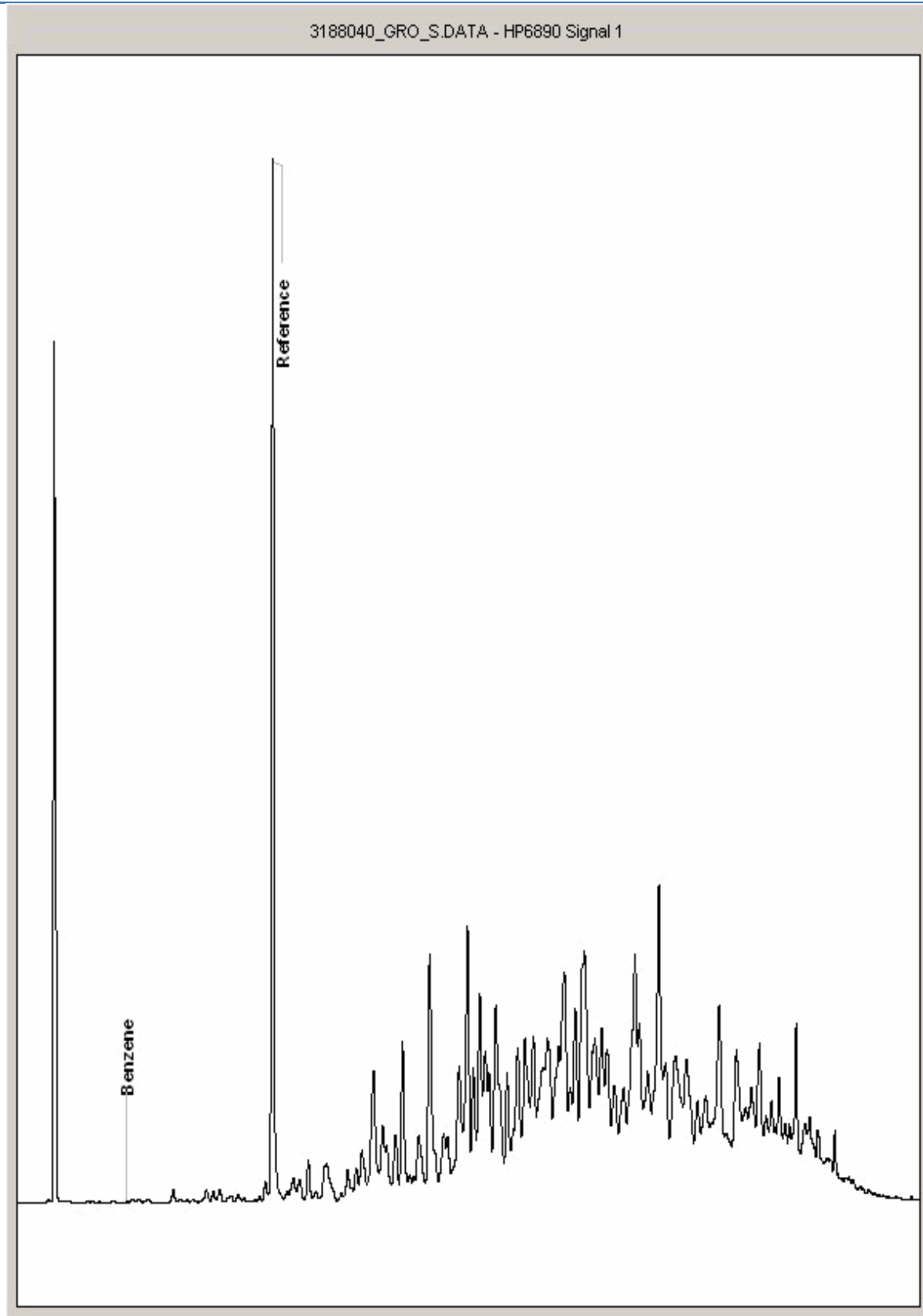
Order Number:
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Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188040
Sample ID : CATP036

Depth : 2.70





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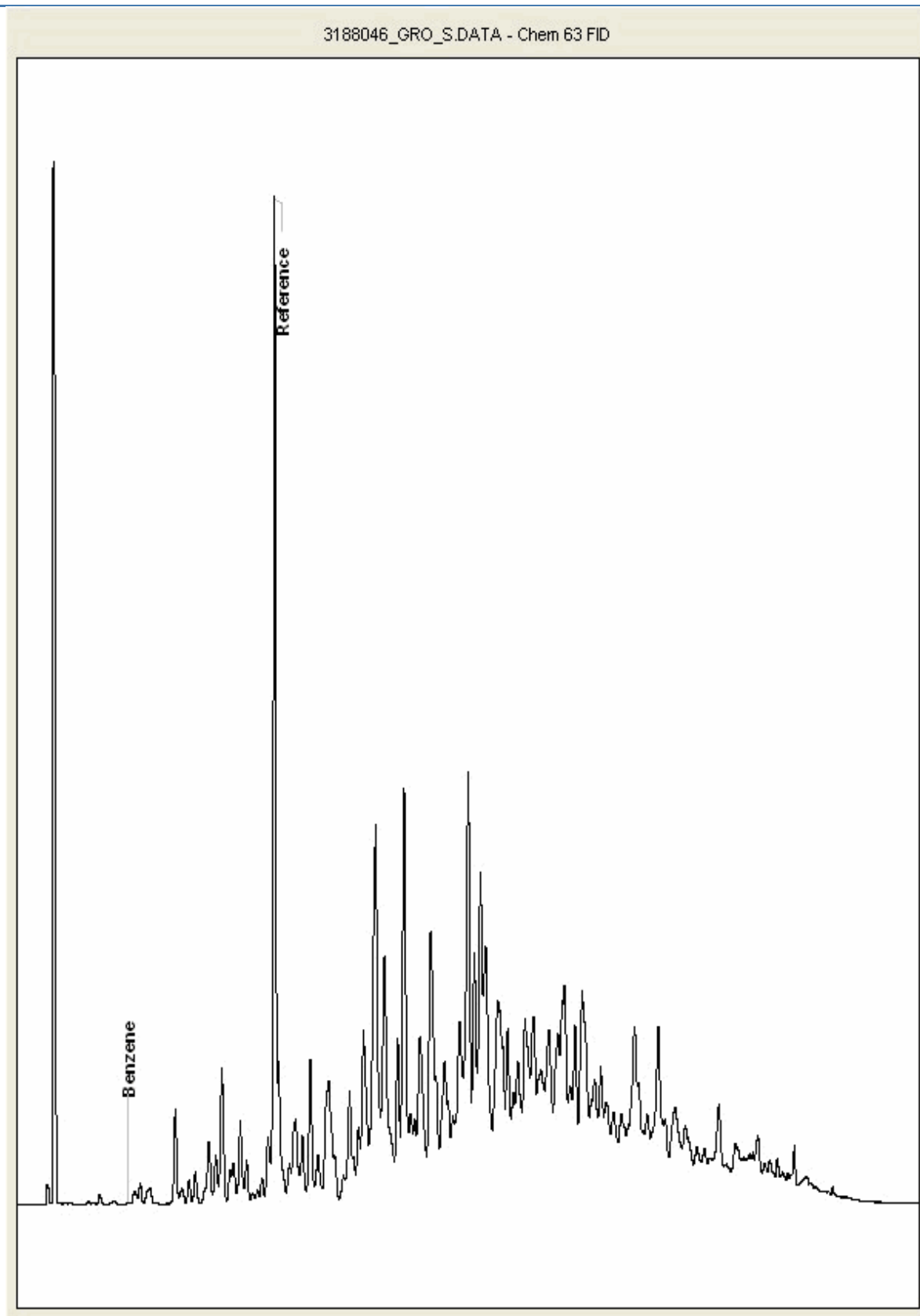
Order Number:
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Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188046
Sample ID : CATP035

Depth : 0.50





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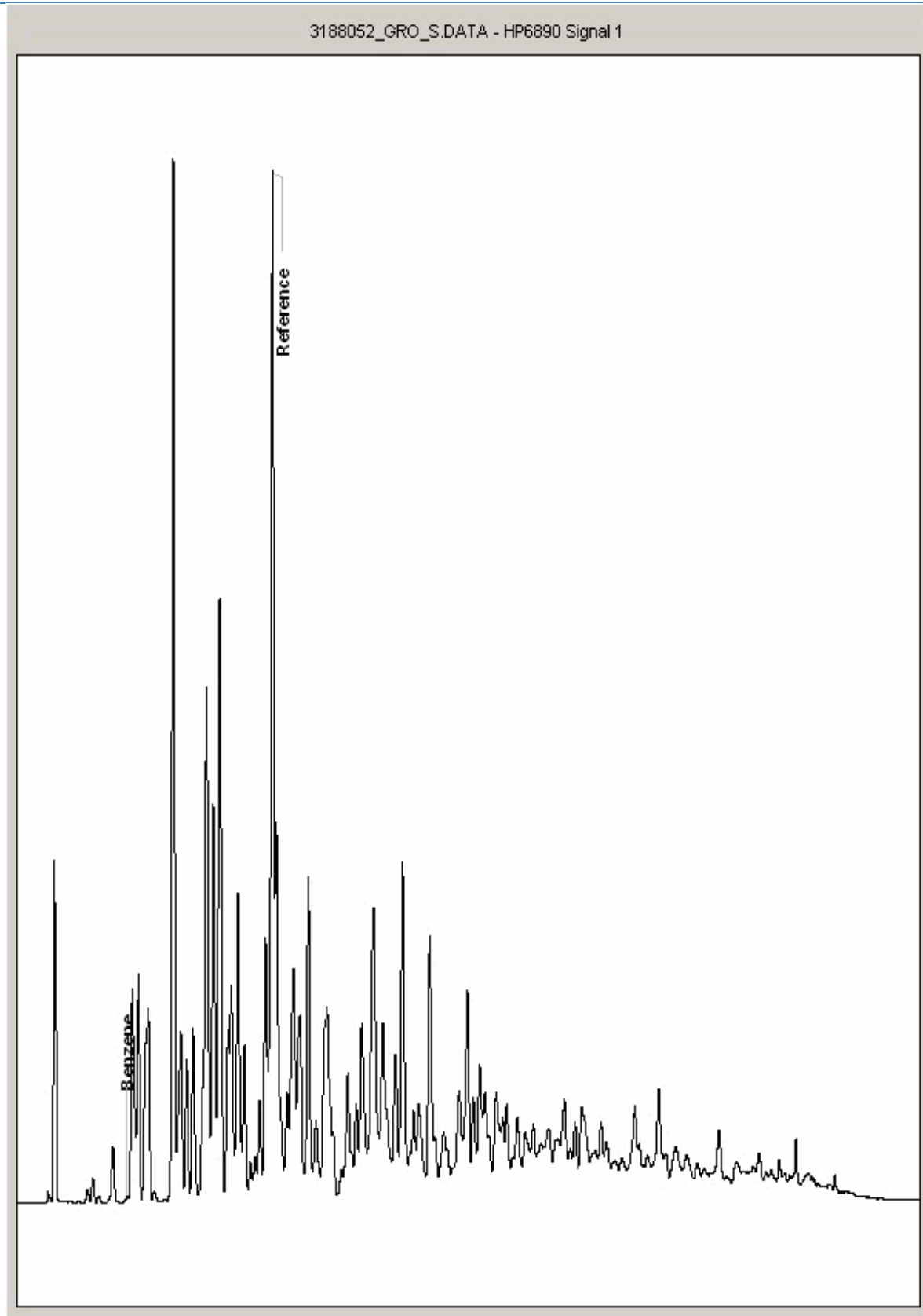
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188052
Sample ID : CATP035

Depth : 1.30





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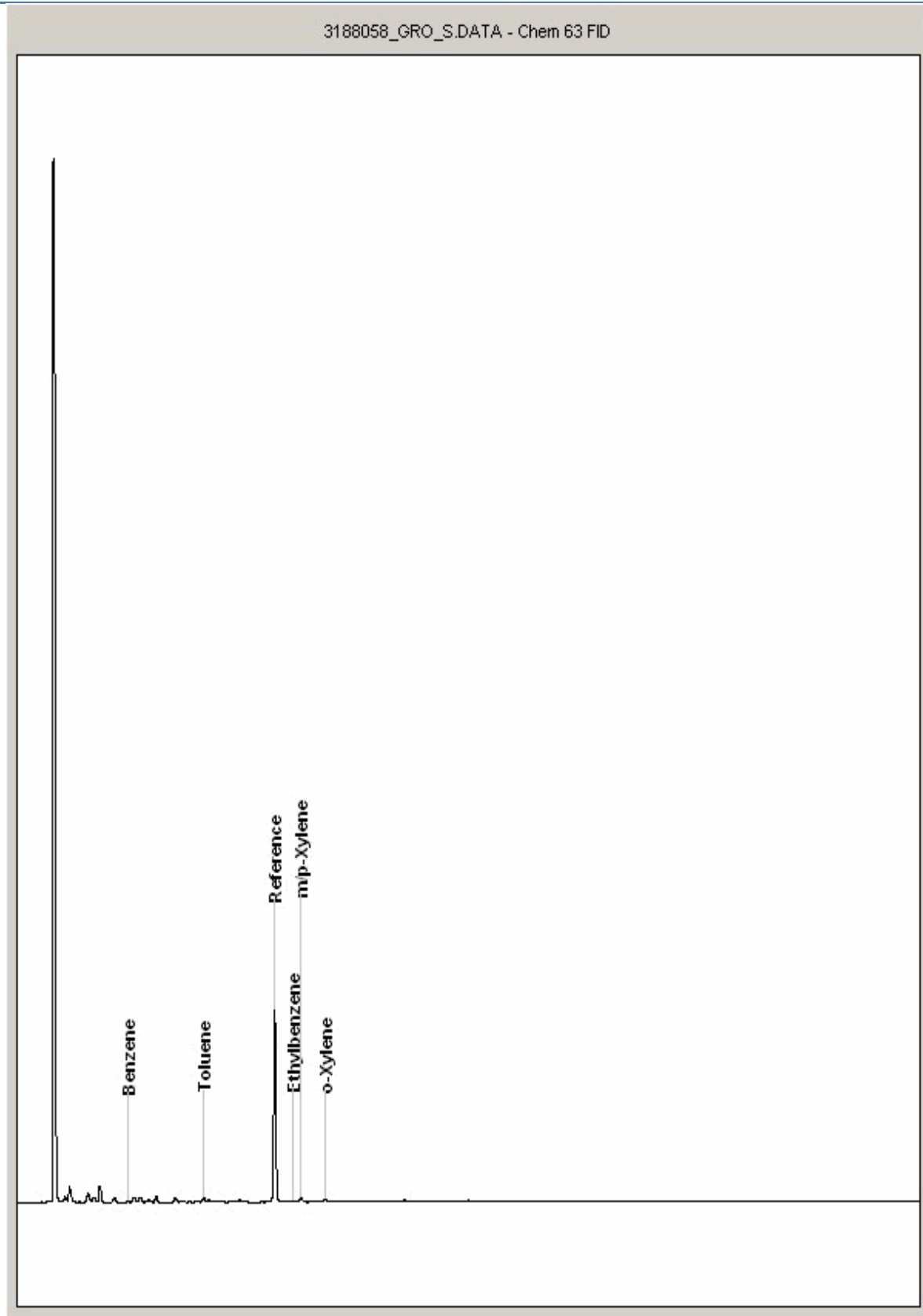
Order Number:
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Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188058
Sample ID : CATP034

Depth : 0.50





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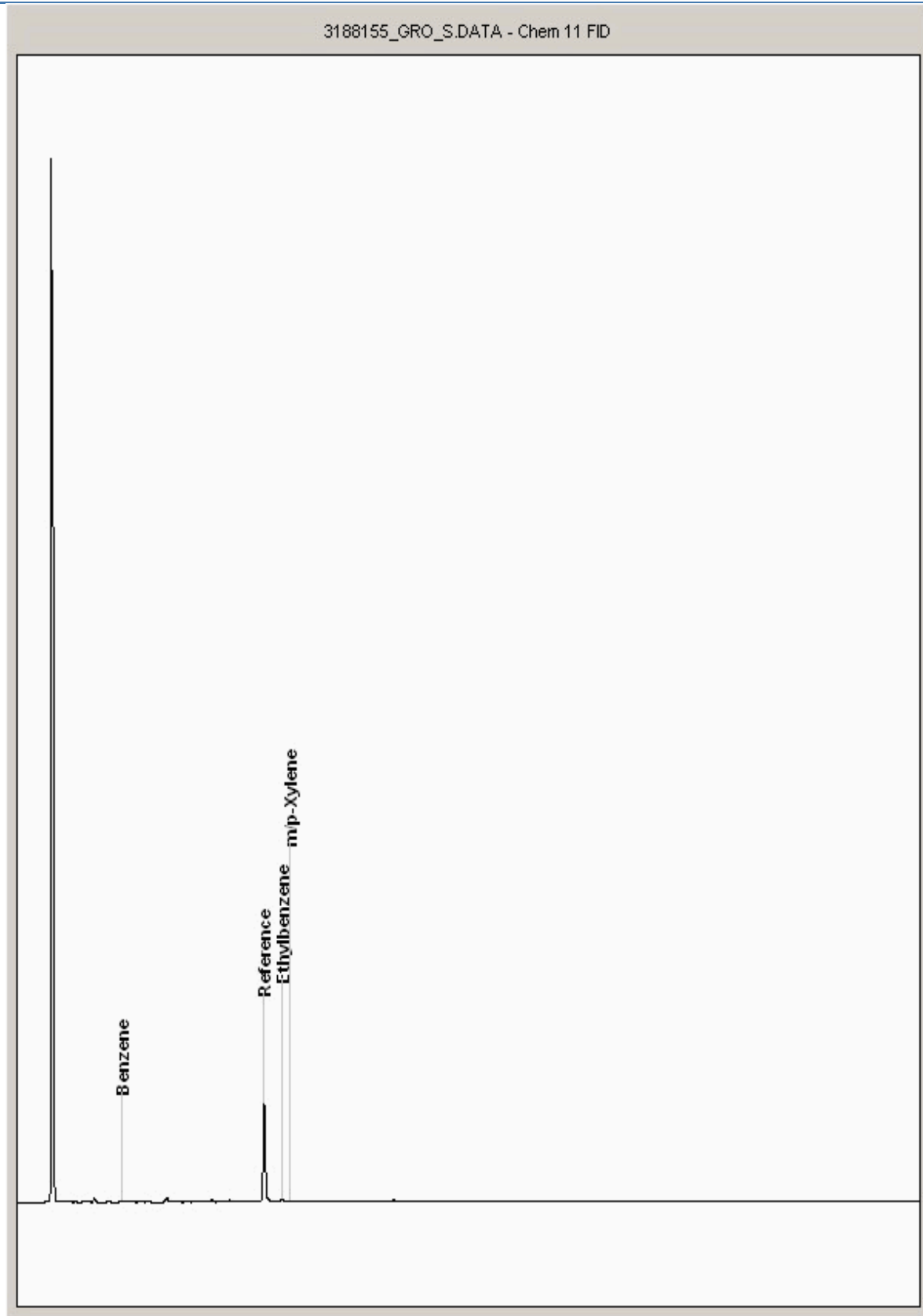
Order Number:
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Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188155
Sample ID : CATP041

Depth : 0.50





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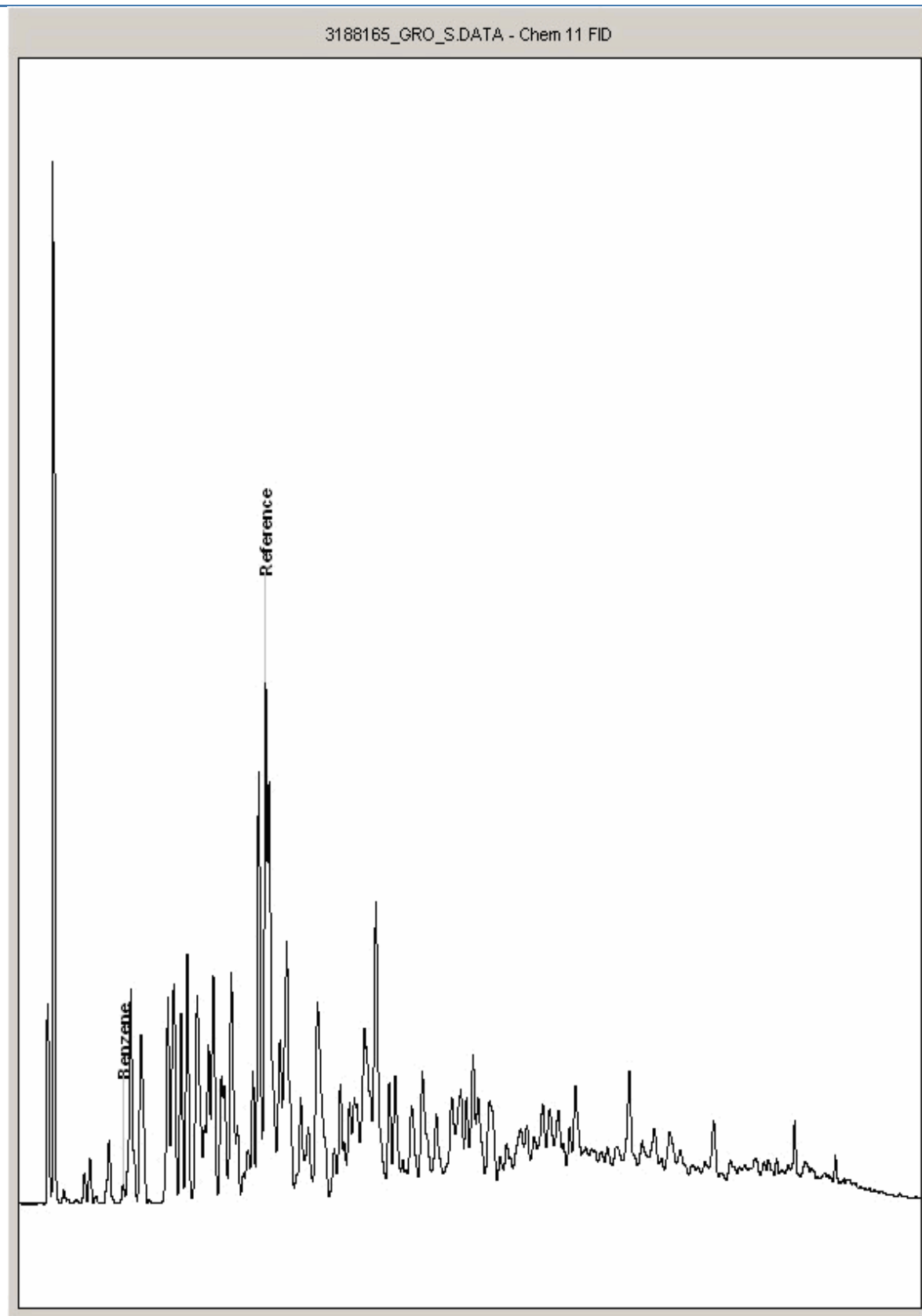
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188165
Sample ID : CATP041

Depth : 1.10





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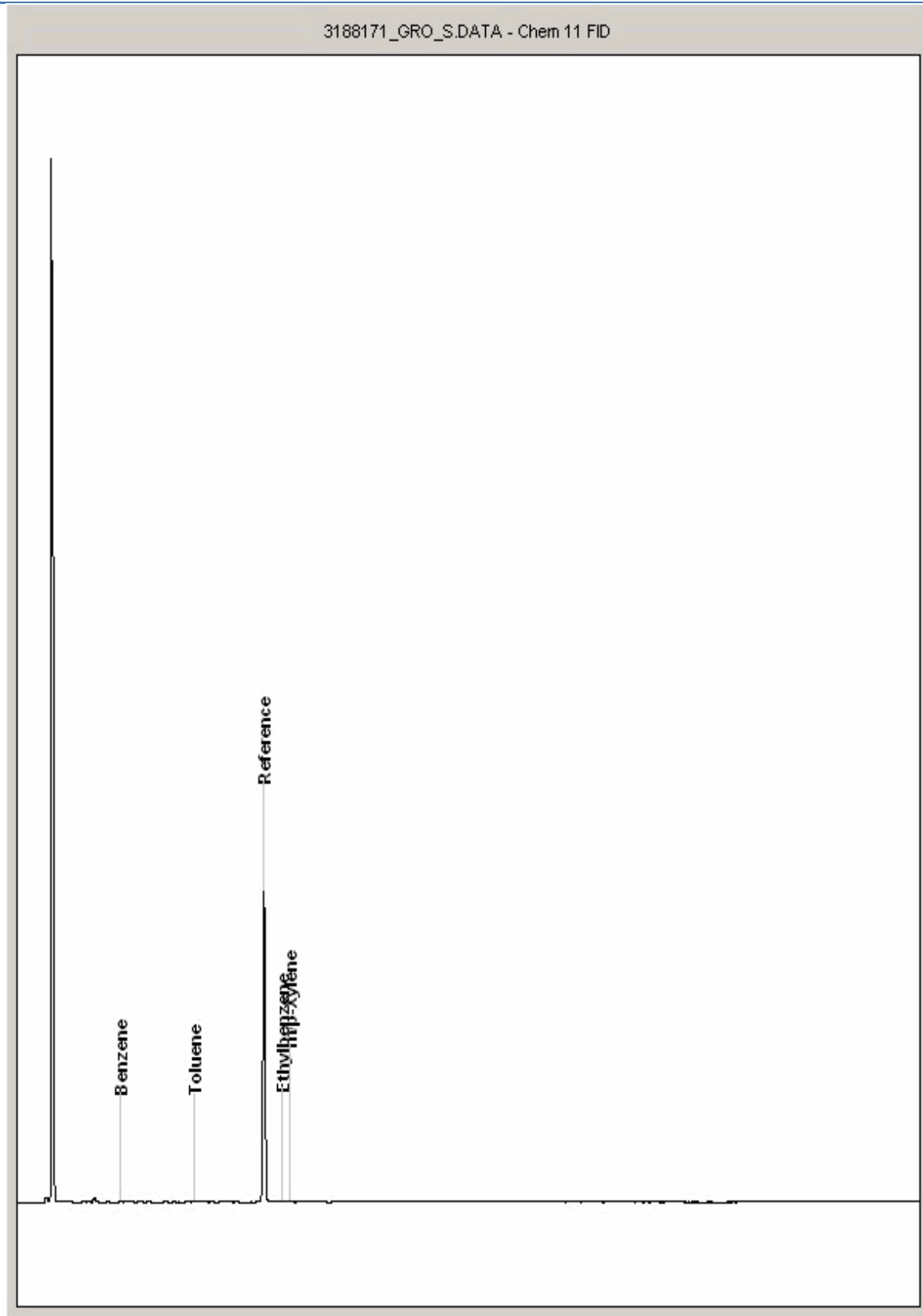
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188171
Sample ID : CATP044

Depth : 0.60





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

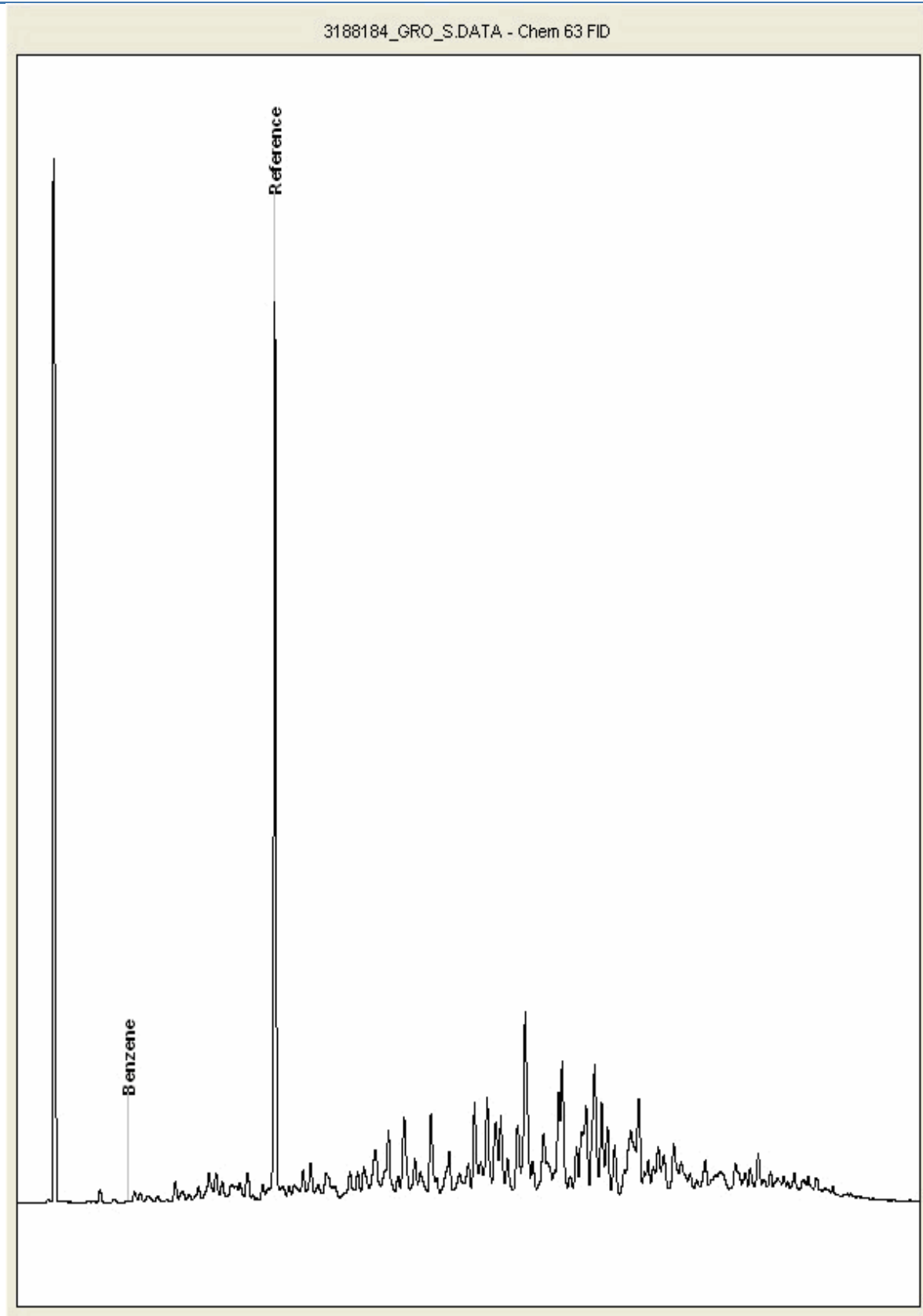
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188184
Sample ID : CATP044

Depth : 2.00





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

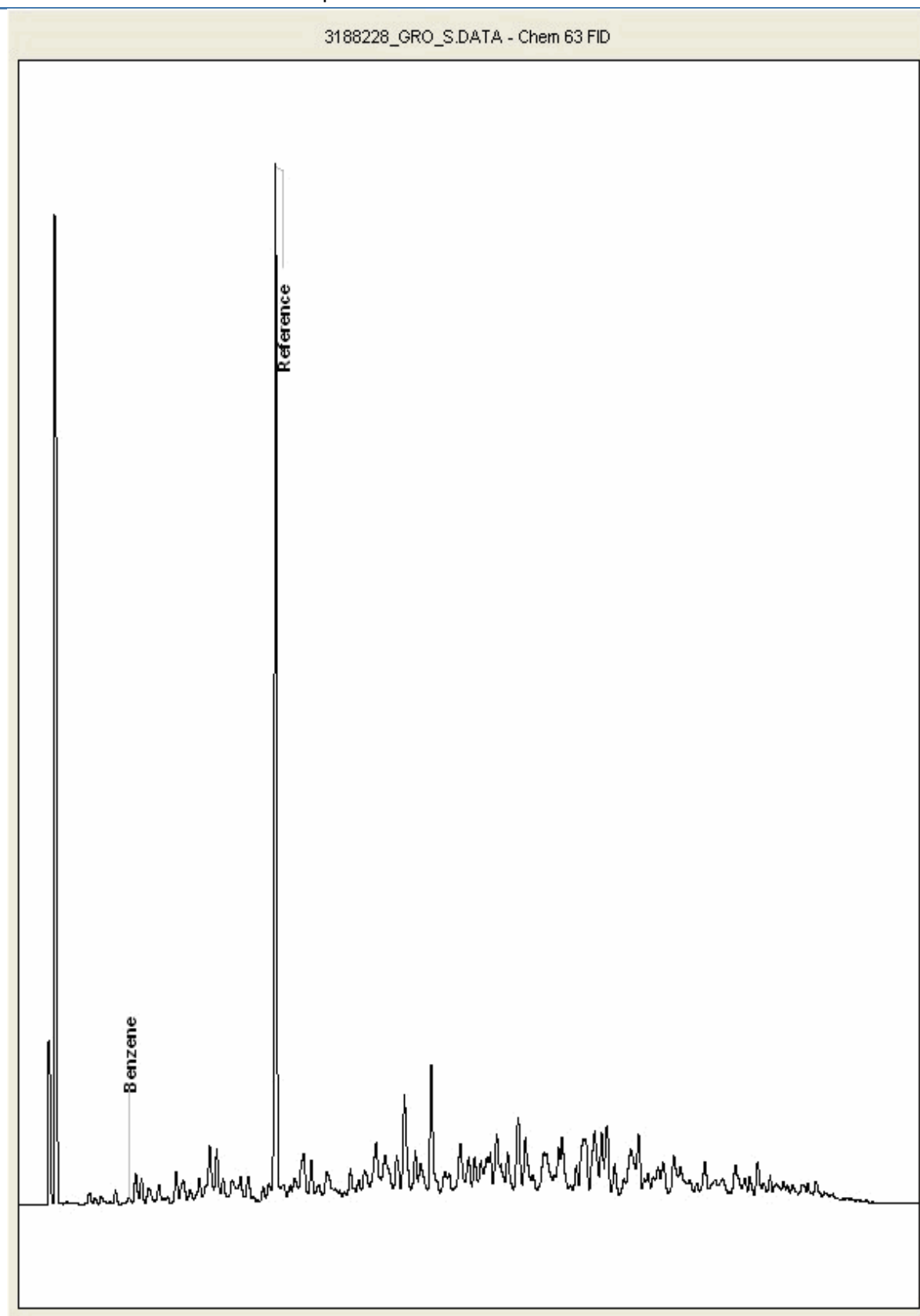
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188228
Sample ID : CATP044

Depth : 3.00





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

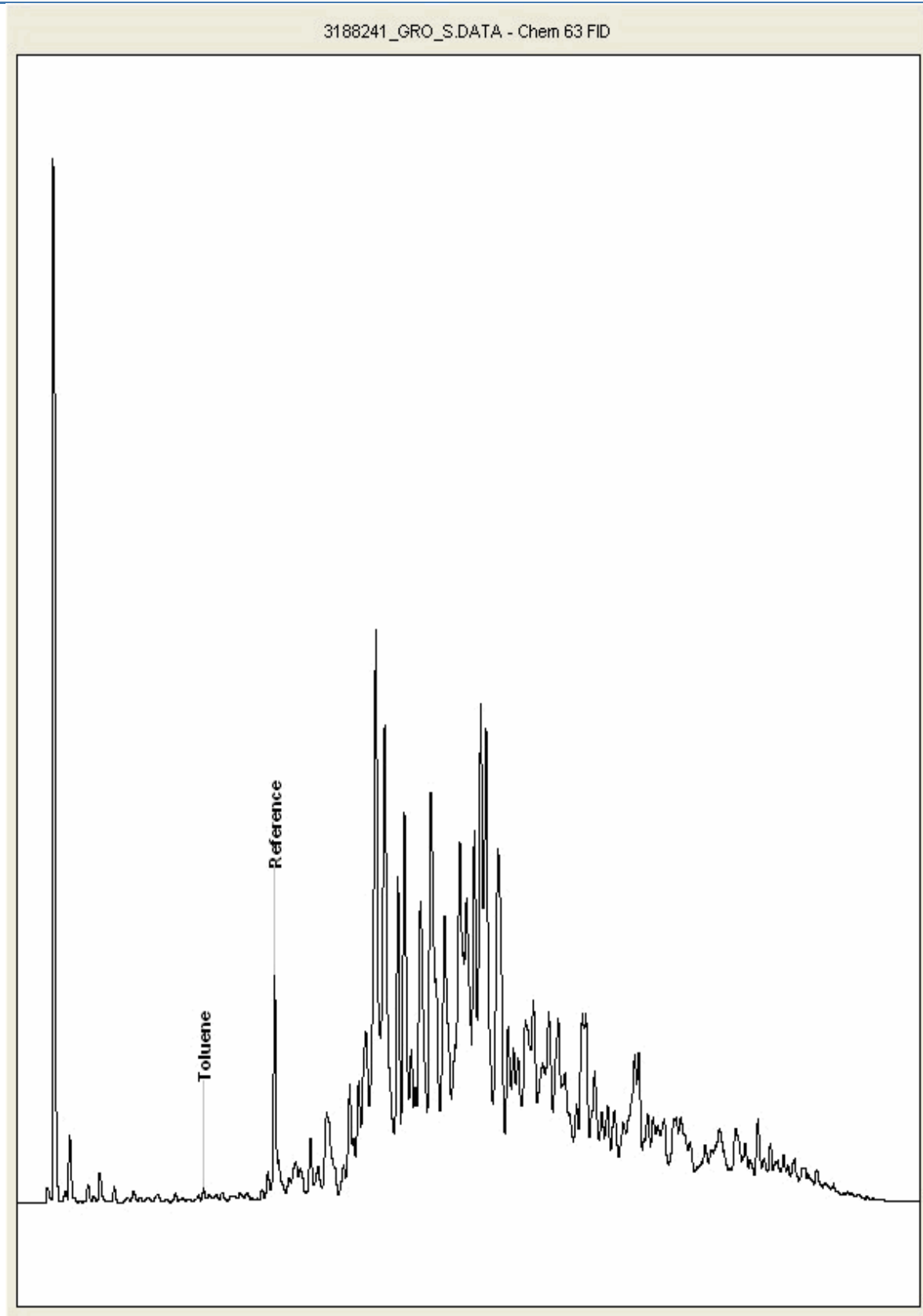
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188241
Sample ID : CATP045

Depth : 1.00





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

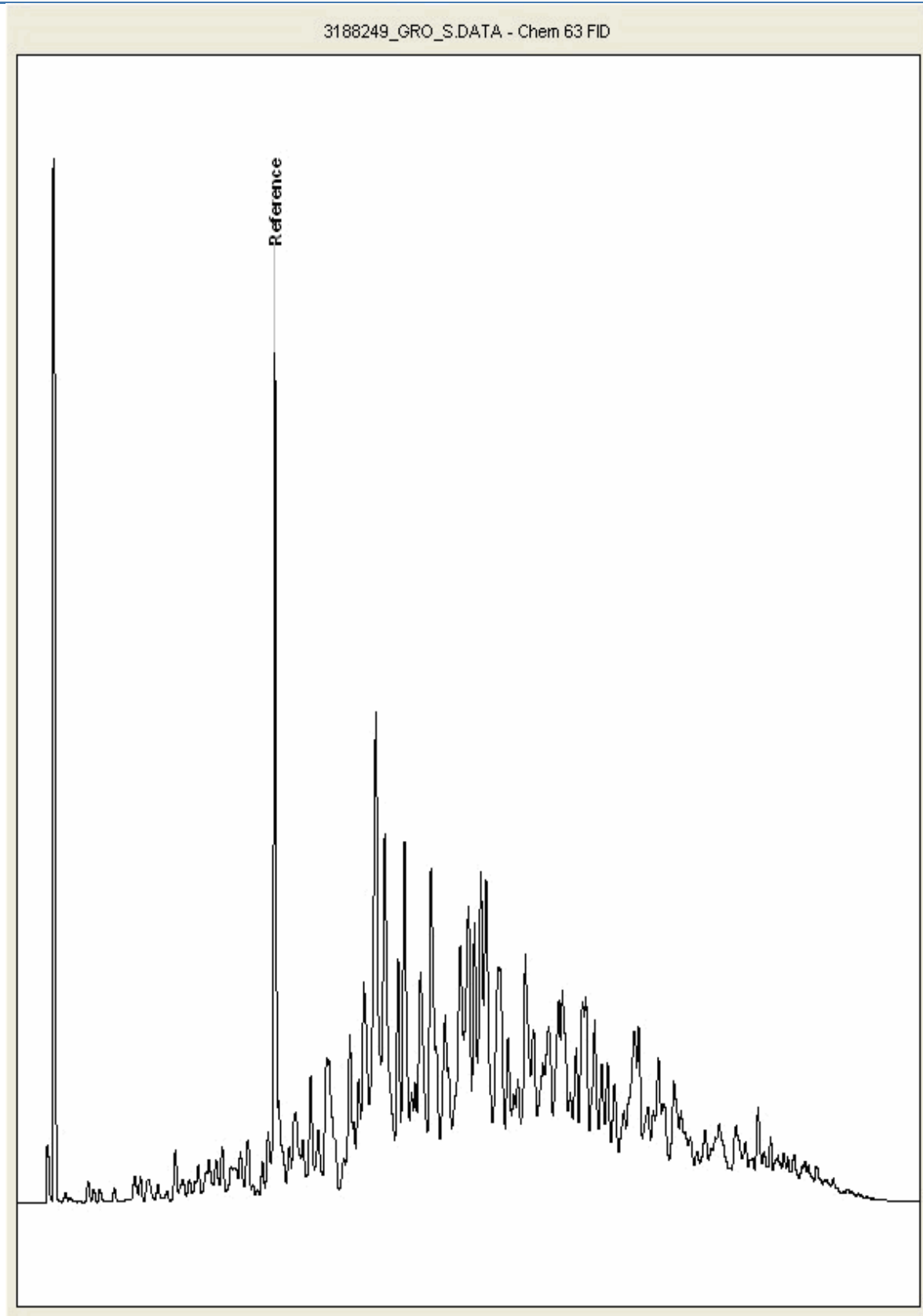
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188249
Sample ID : CATP045

Depth : 1.50





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

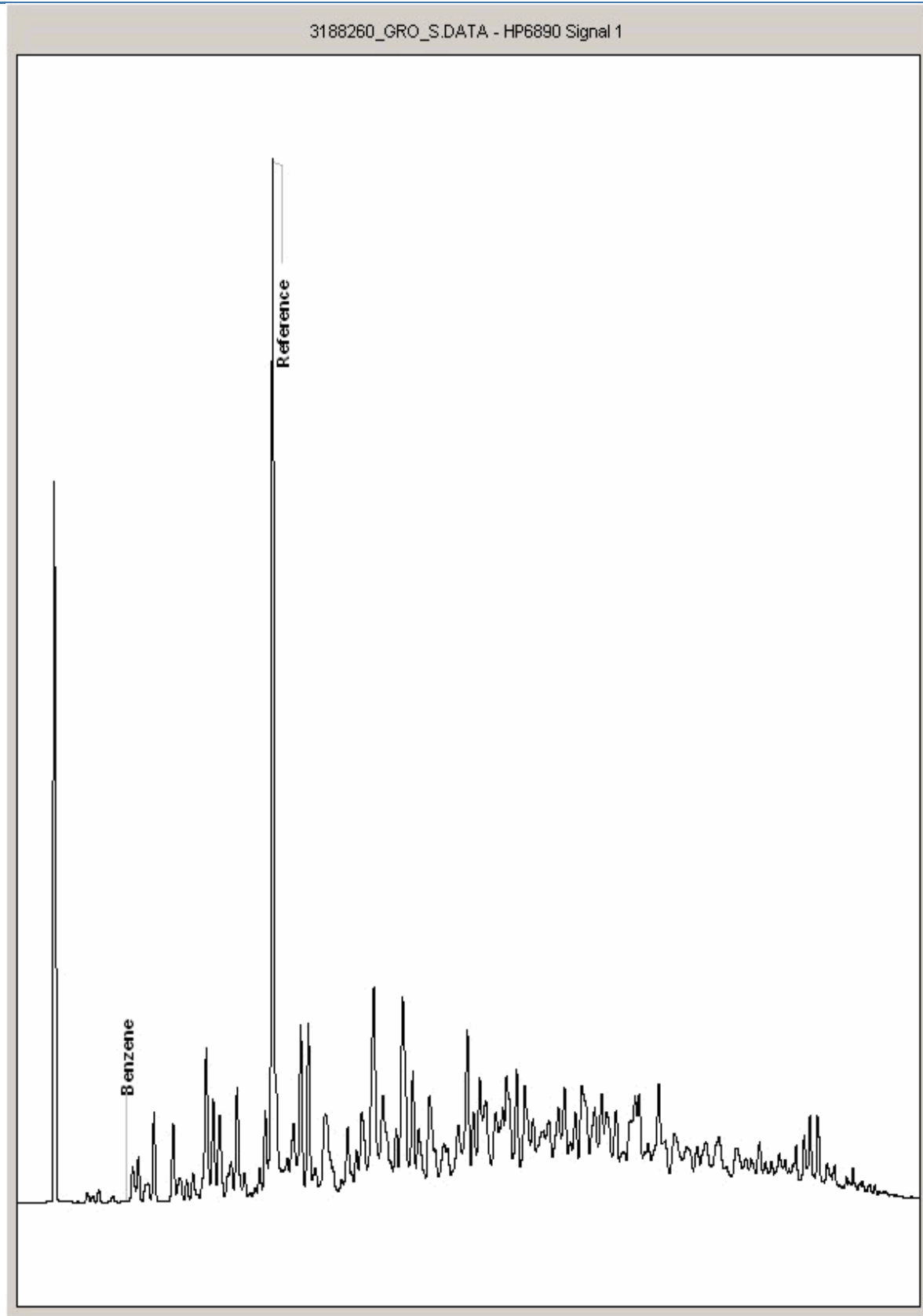
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188260
Sample ID : CATP053

Depth : 1.00





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

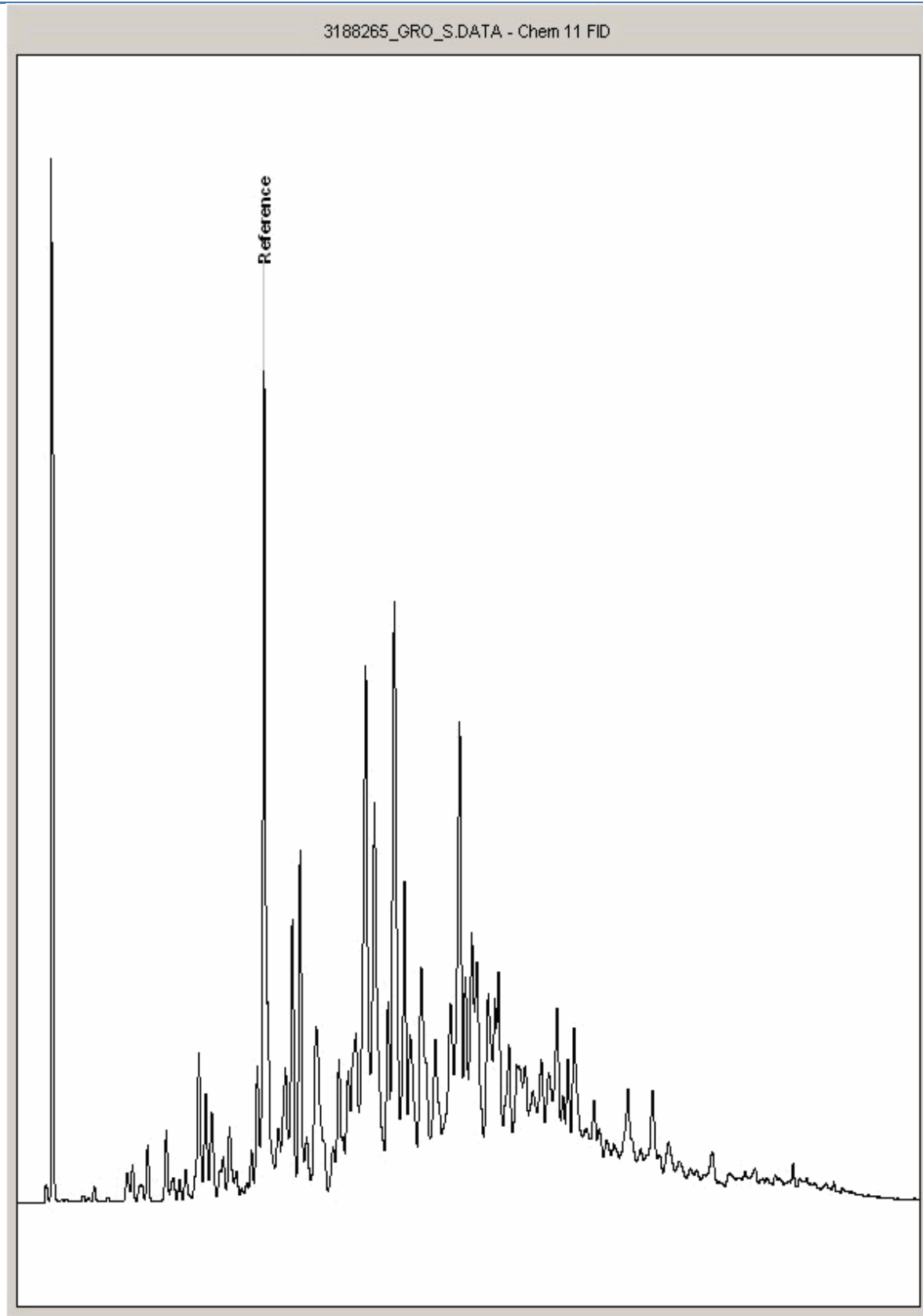
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188265
Sample ID : CATP053

Depth : 2.00





SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

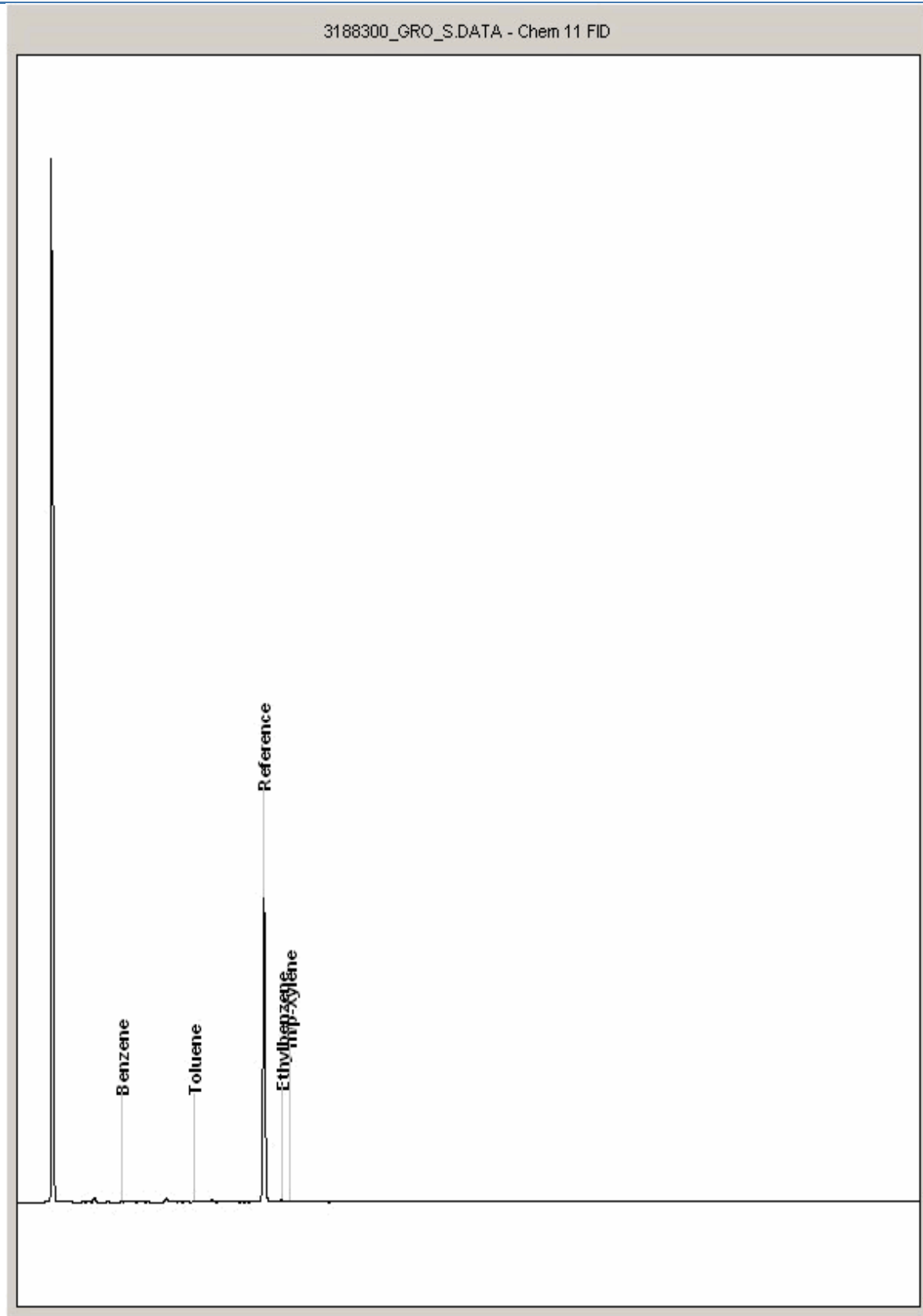
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188300
Sample ID : CATP055

Depth : 0.50





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

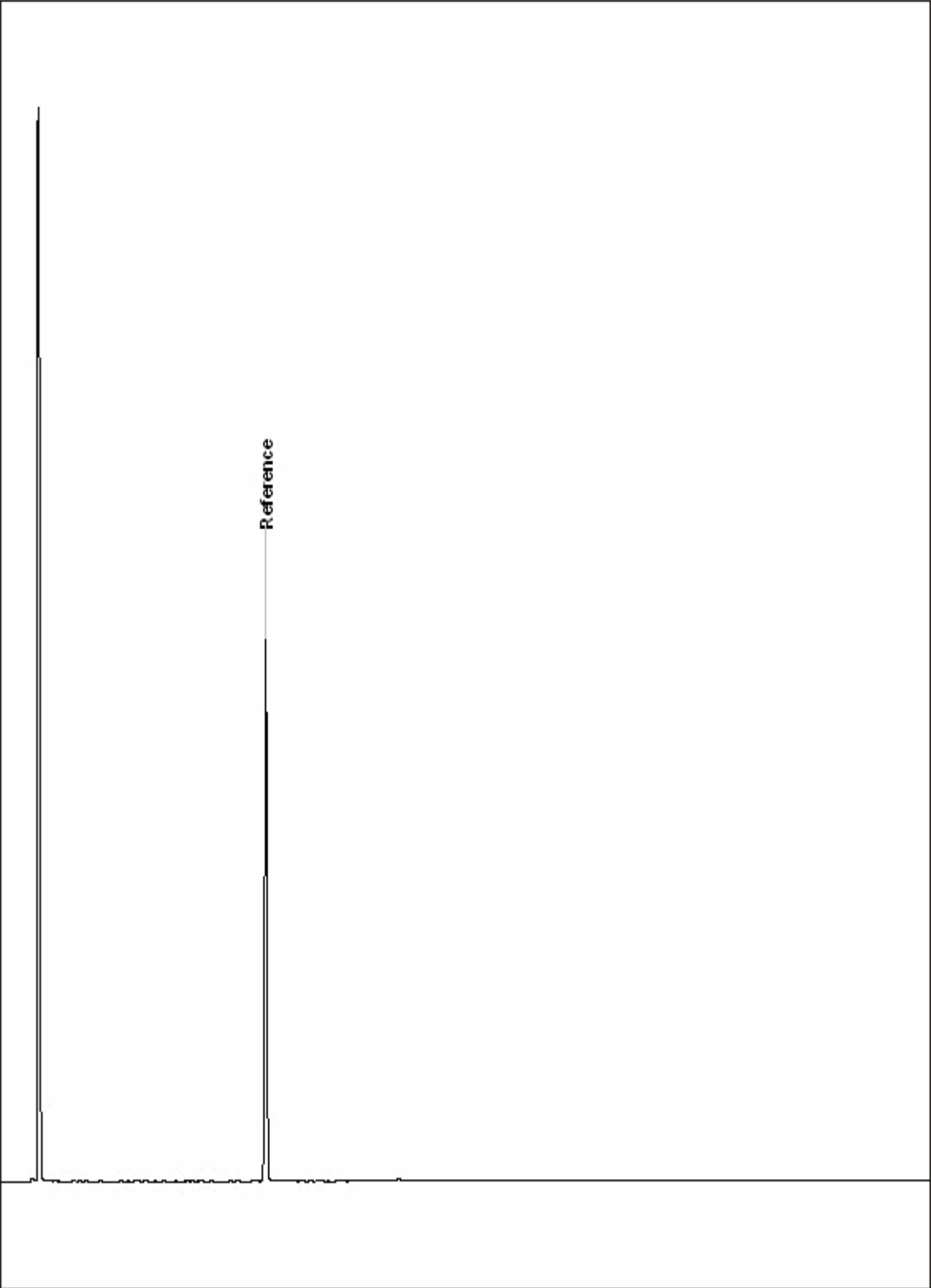
Analysis: GRO by GC-FID (S)

Sample No : 3188312
Sample ID : CATP055

Depth : 1.00

3188312_GRO_S.DATA - Chem 63 FID

Reference

A gas chromatogram plot with a single, very sharp and tall peak. The peak is labeled 'Reference' vertically. The baseline is flat and stable across the rest of the run. The plot is titled '3188312_GRO_S.DATA - Chem 63 FID' at the top.



SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

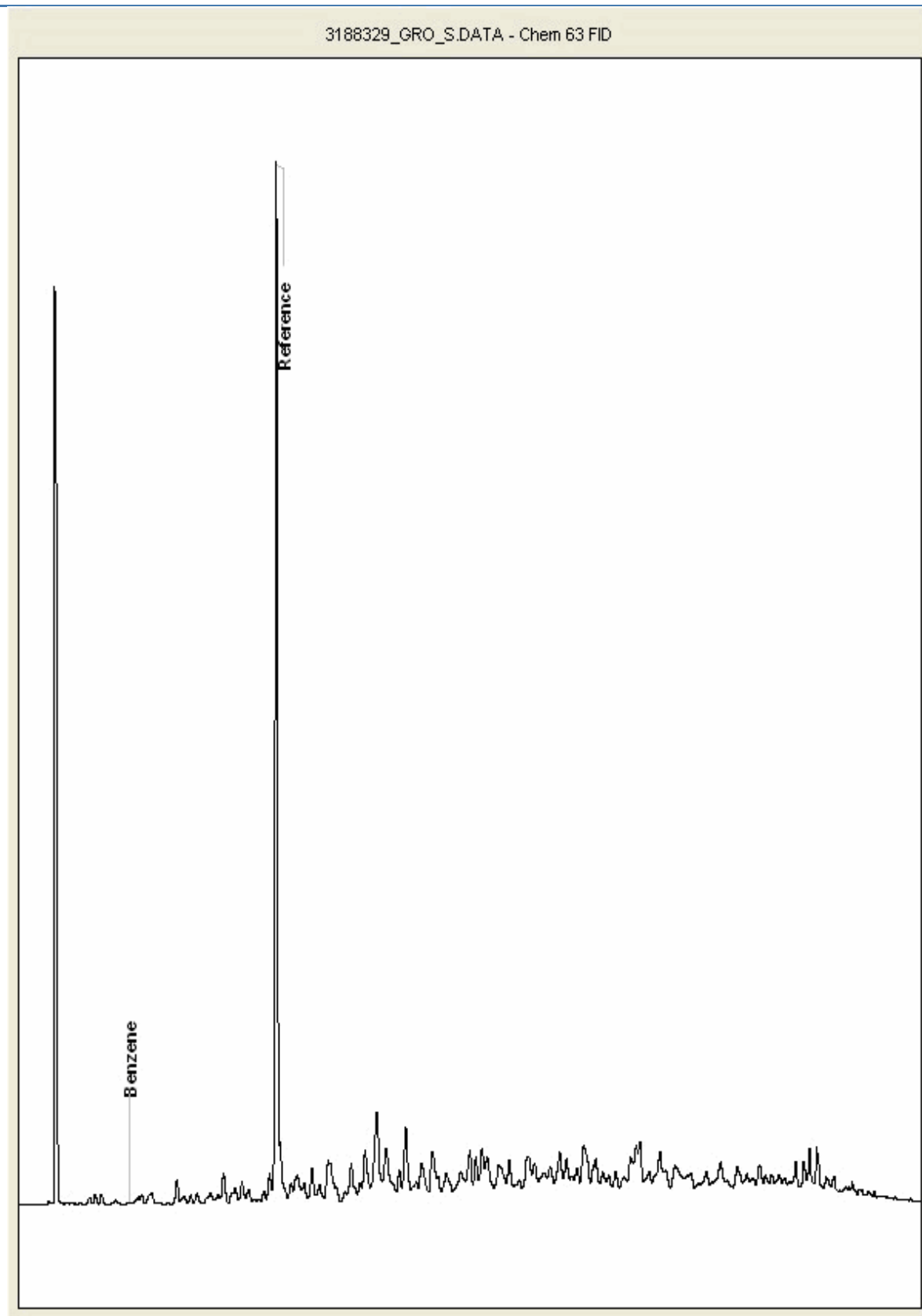
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188329
Sample ID : CATP055

Depth : 2.00





SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

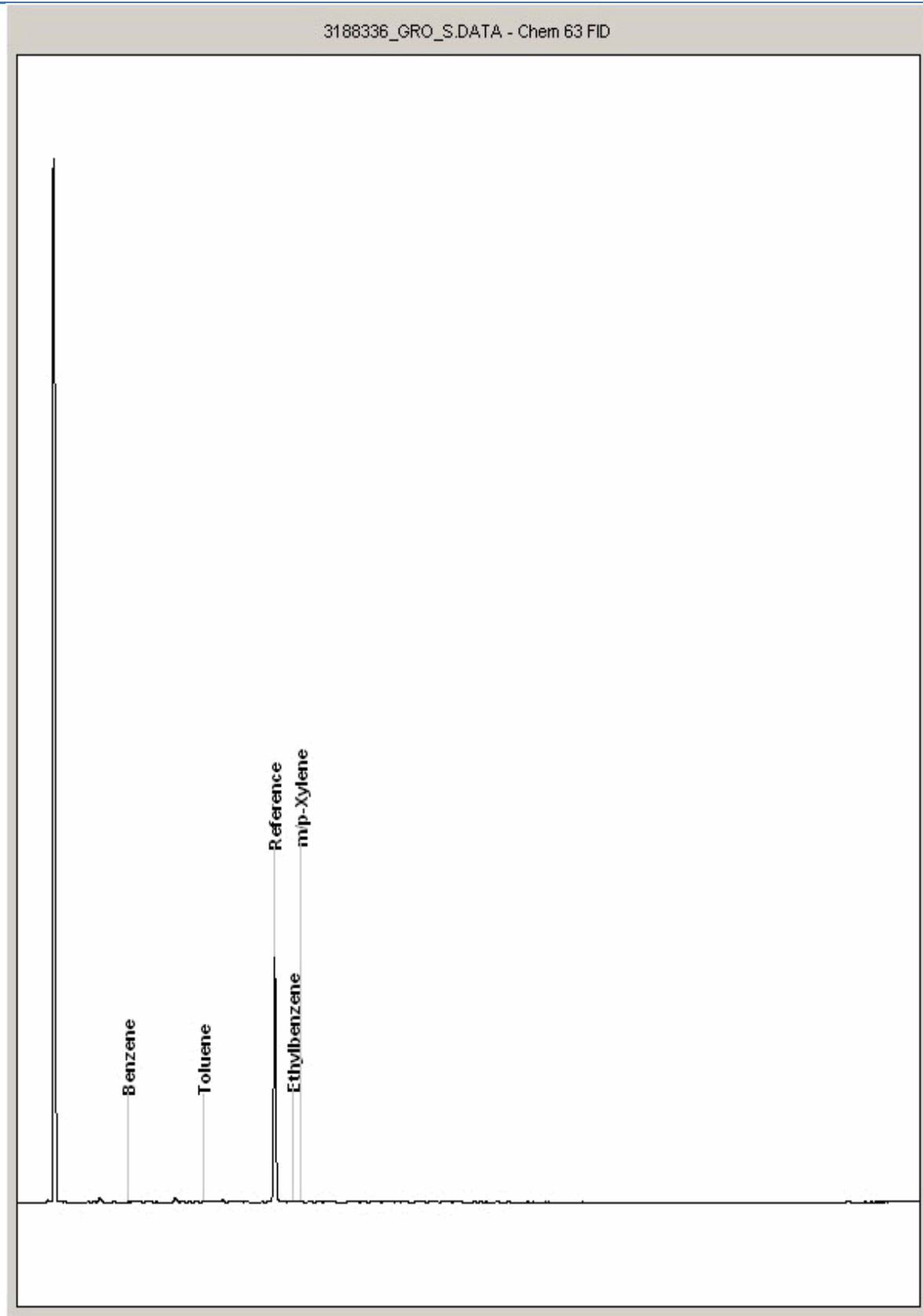
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188336
Sample ID : CATP056

Depth : 0.20





SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

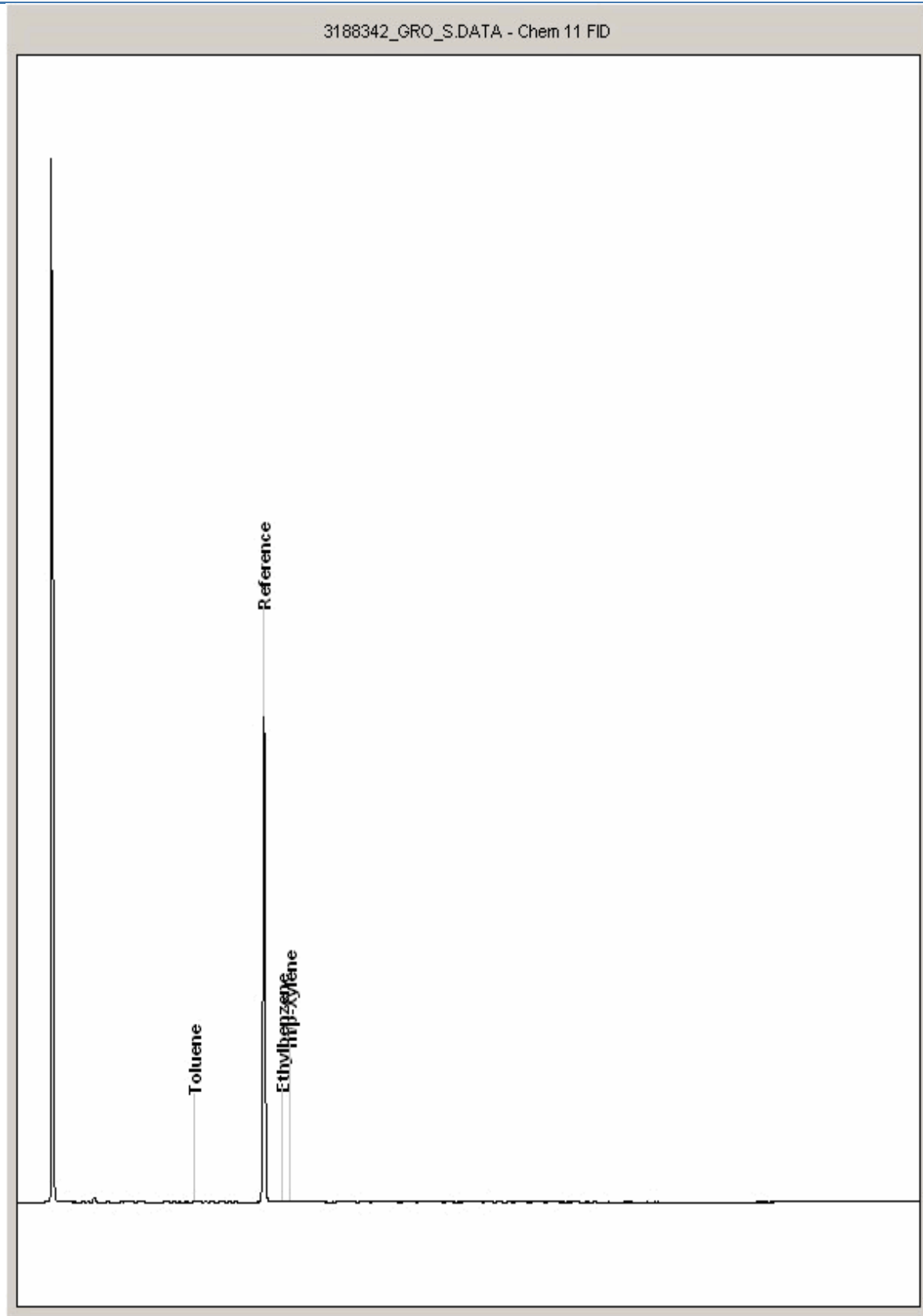
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188342
Sample ID : CATP056

Depth : 1.00





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

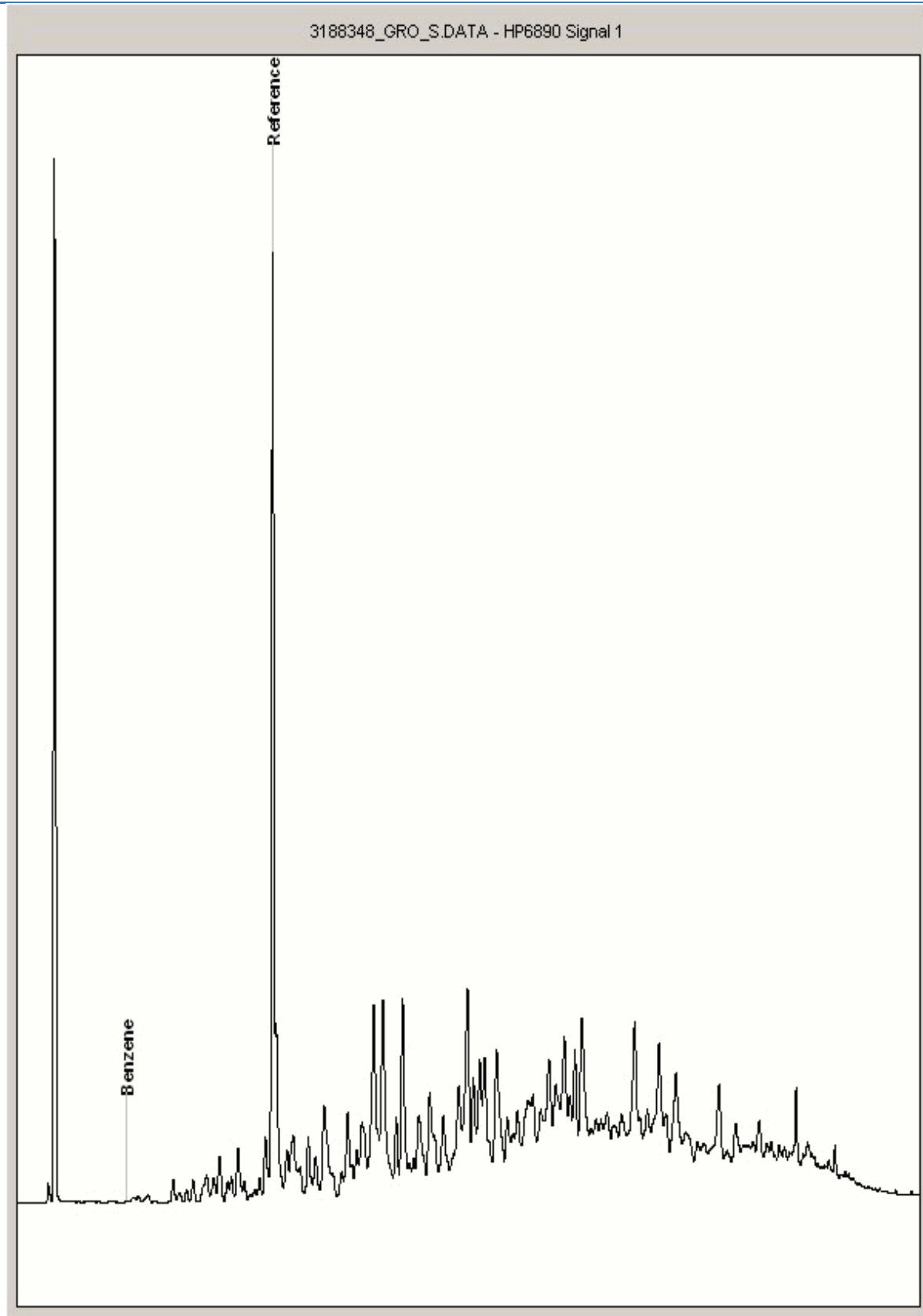
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188348
Sample ID : CATP062

Depth : 0.50





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

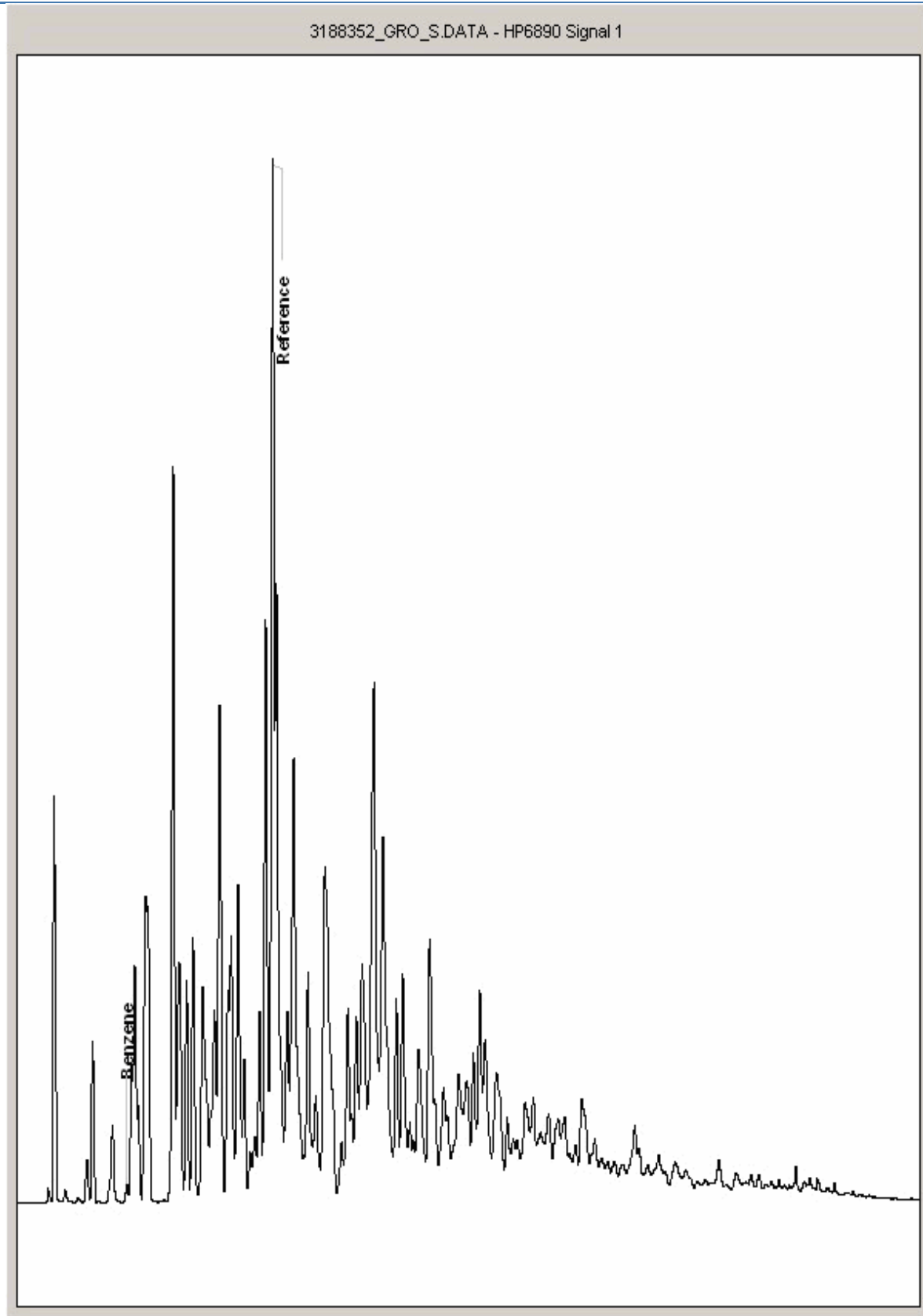
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188352
Sample ID : CATP062

Depth : 1.00





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

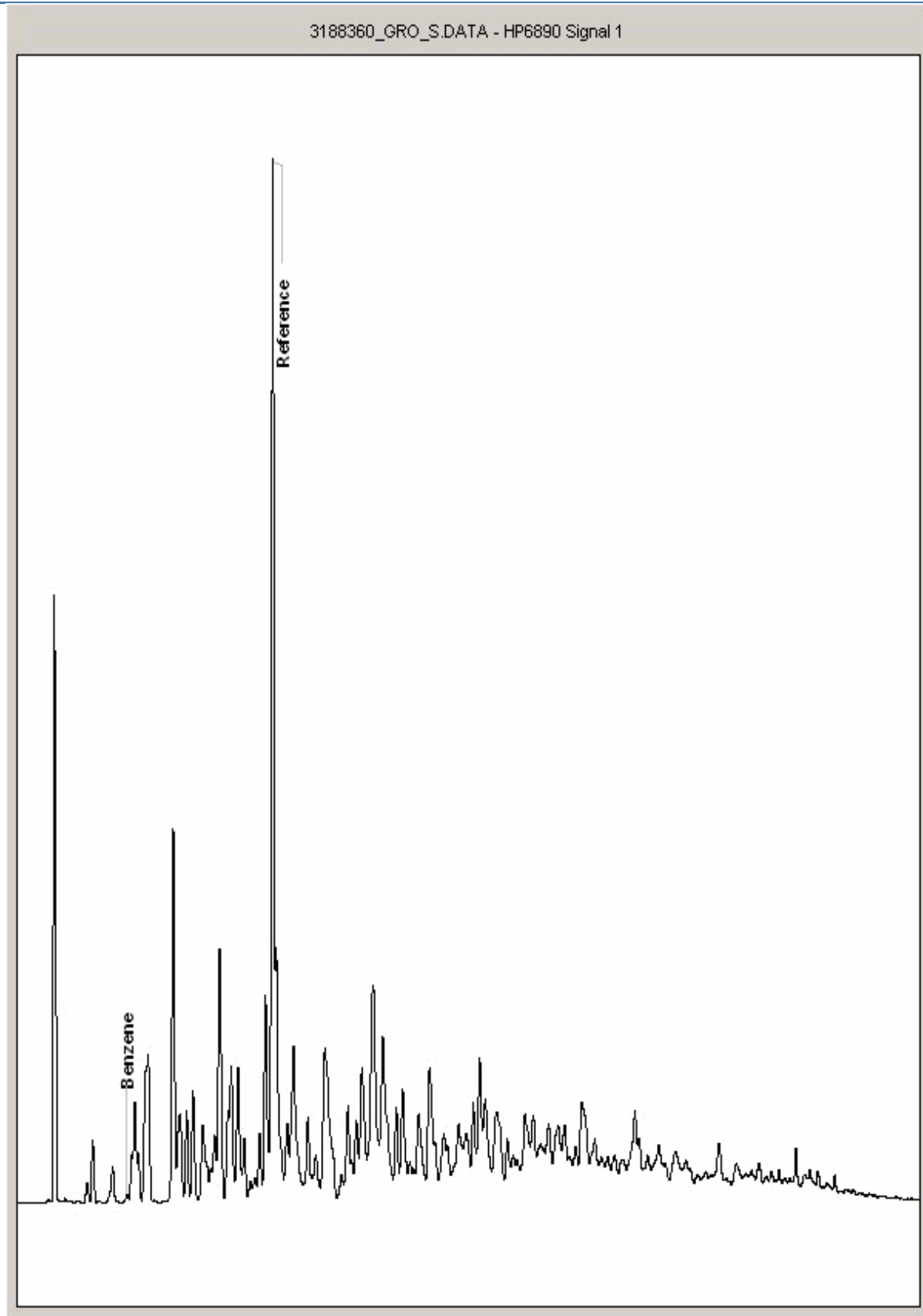
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188360
Sample ID : CATP062

Depth : 1.40





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

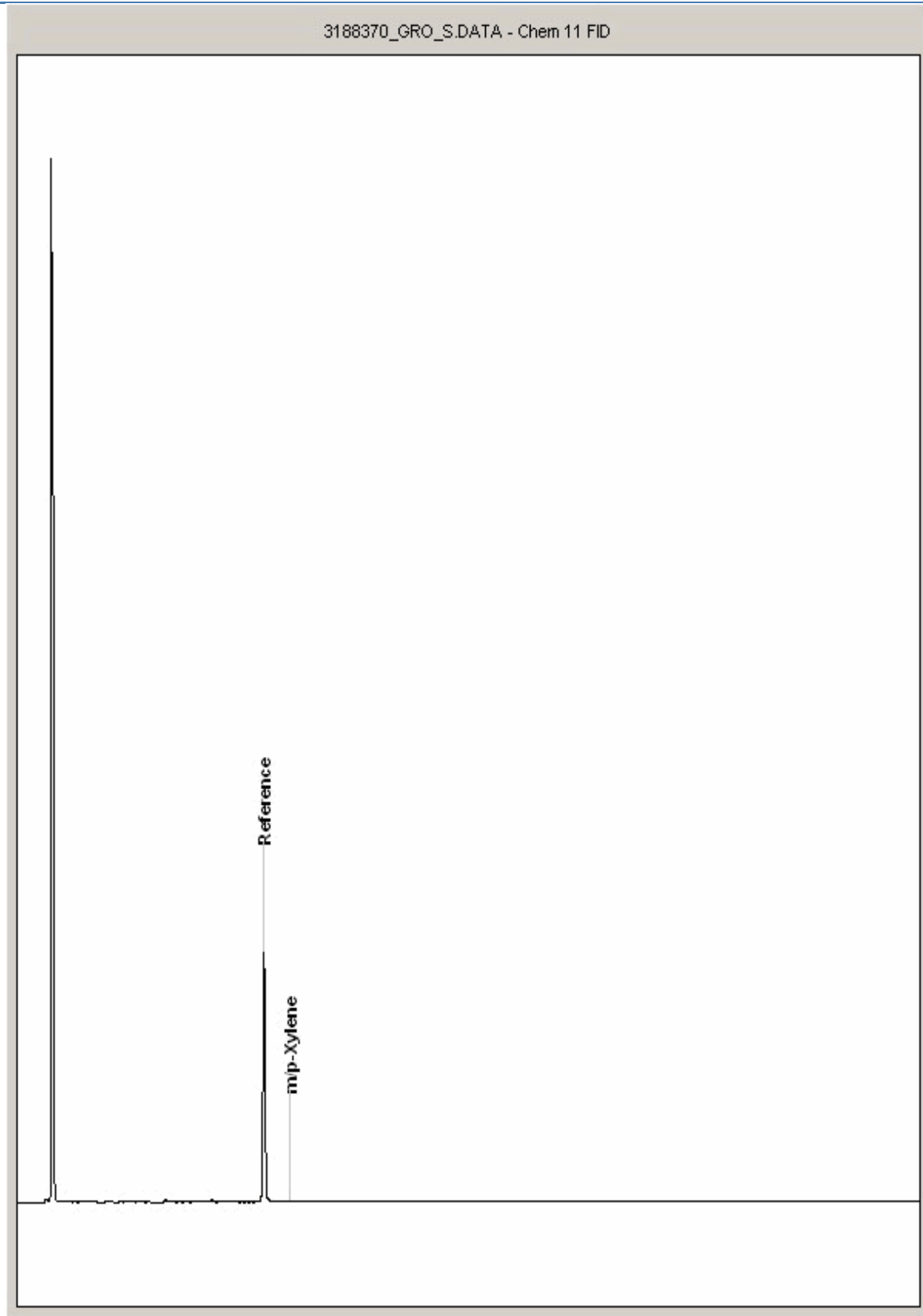
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188370
Sample ID : CATP063

Depth : 0.50





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

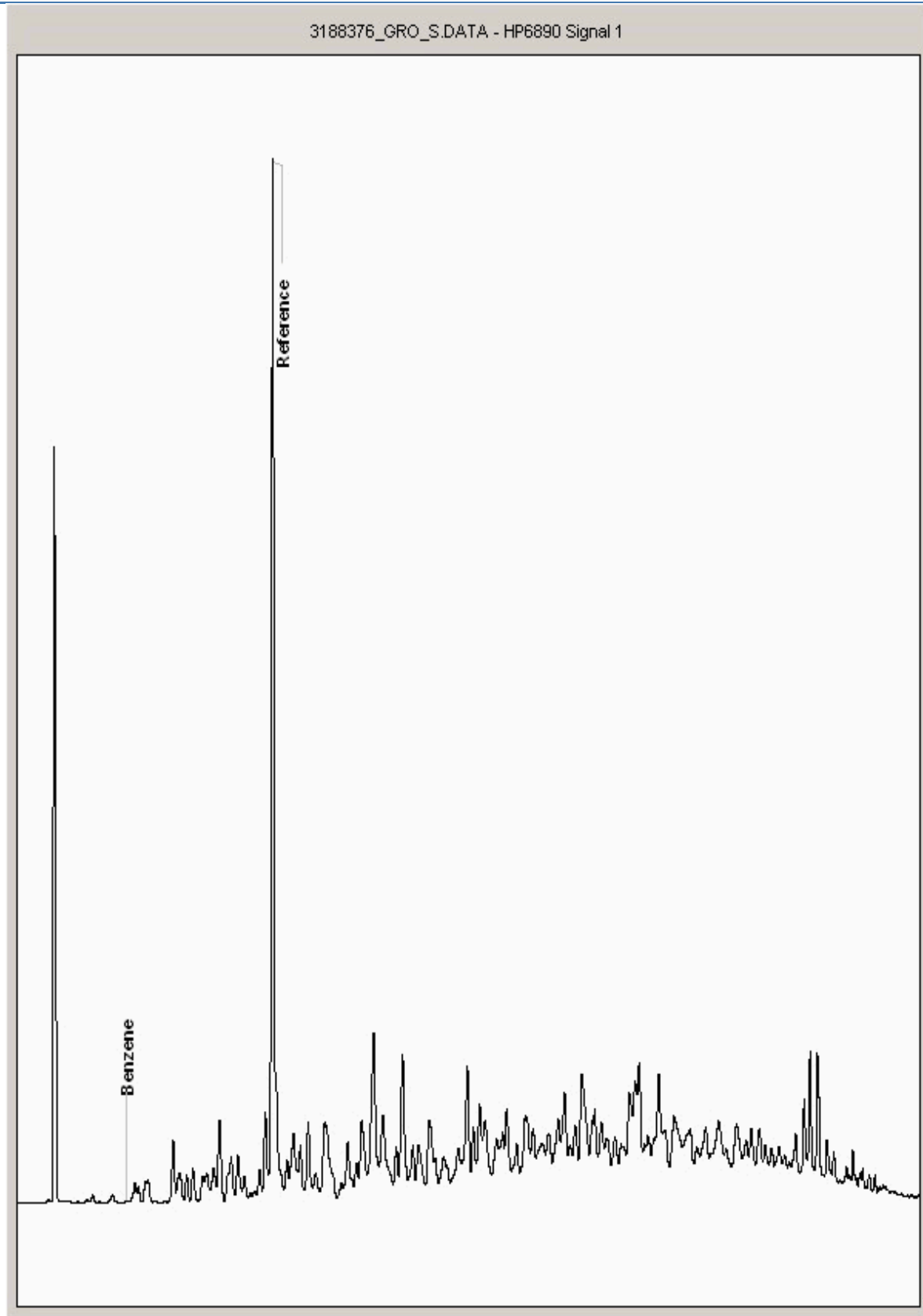
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188376
Sample ID : CATP063

Depth : 1.30





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

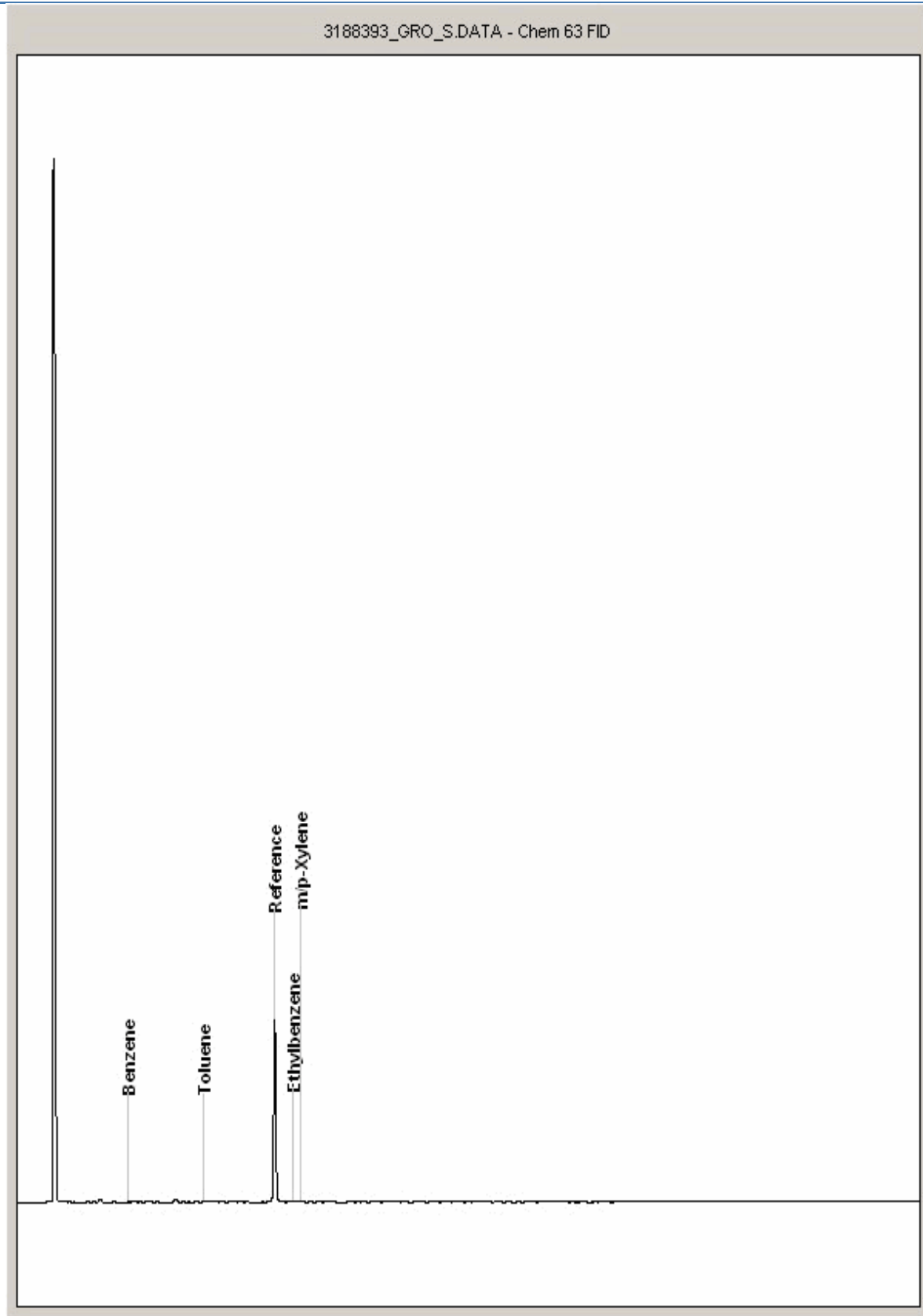
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188393
Sample ID : CATP064

Depth : 0.50





CERTIFICATE OF ANALYSIS

SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

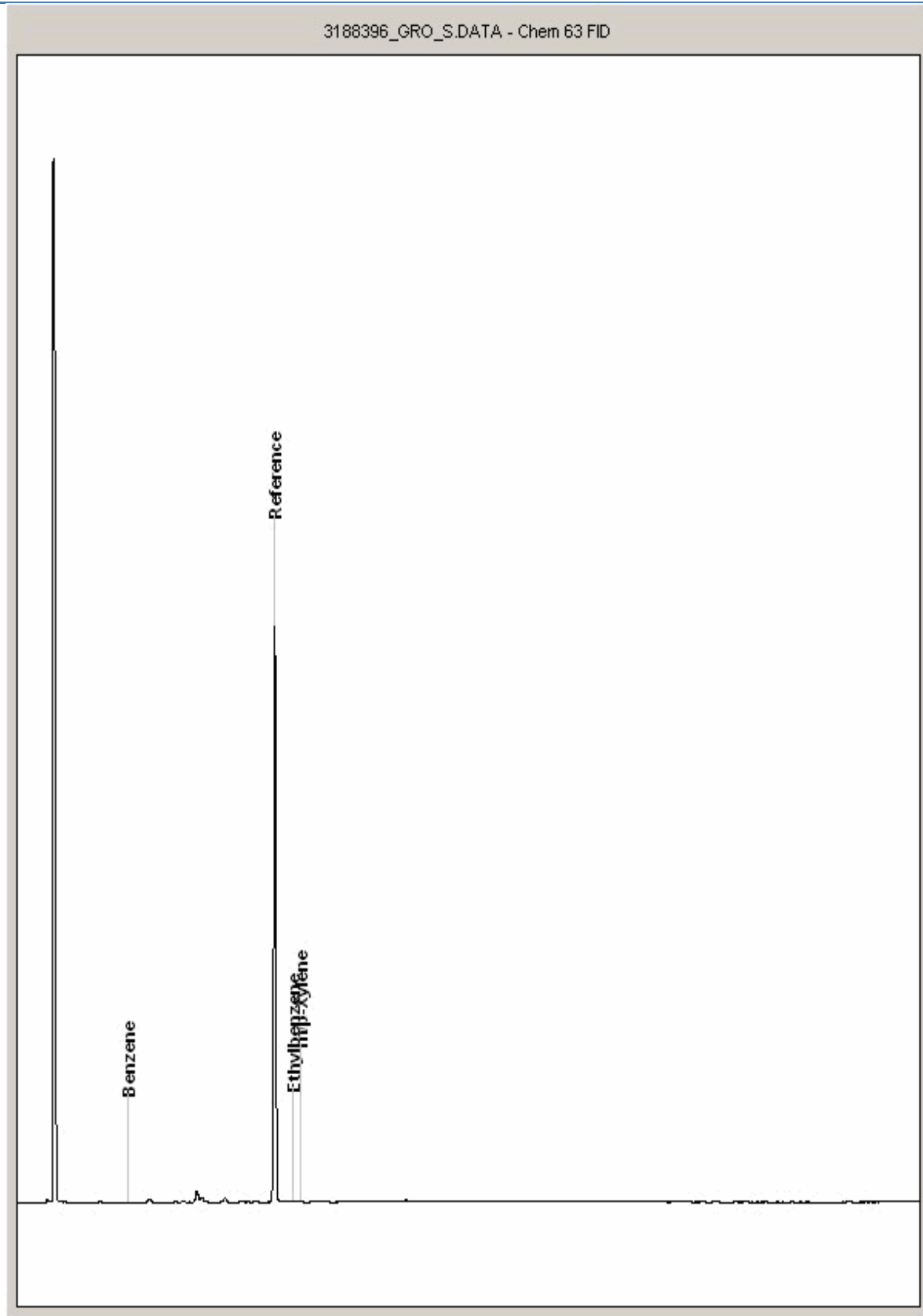
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188396
Sample ID : CATP065

Depth : 1.00





SDG: 110330-44
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

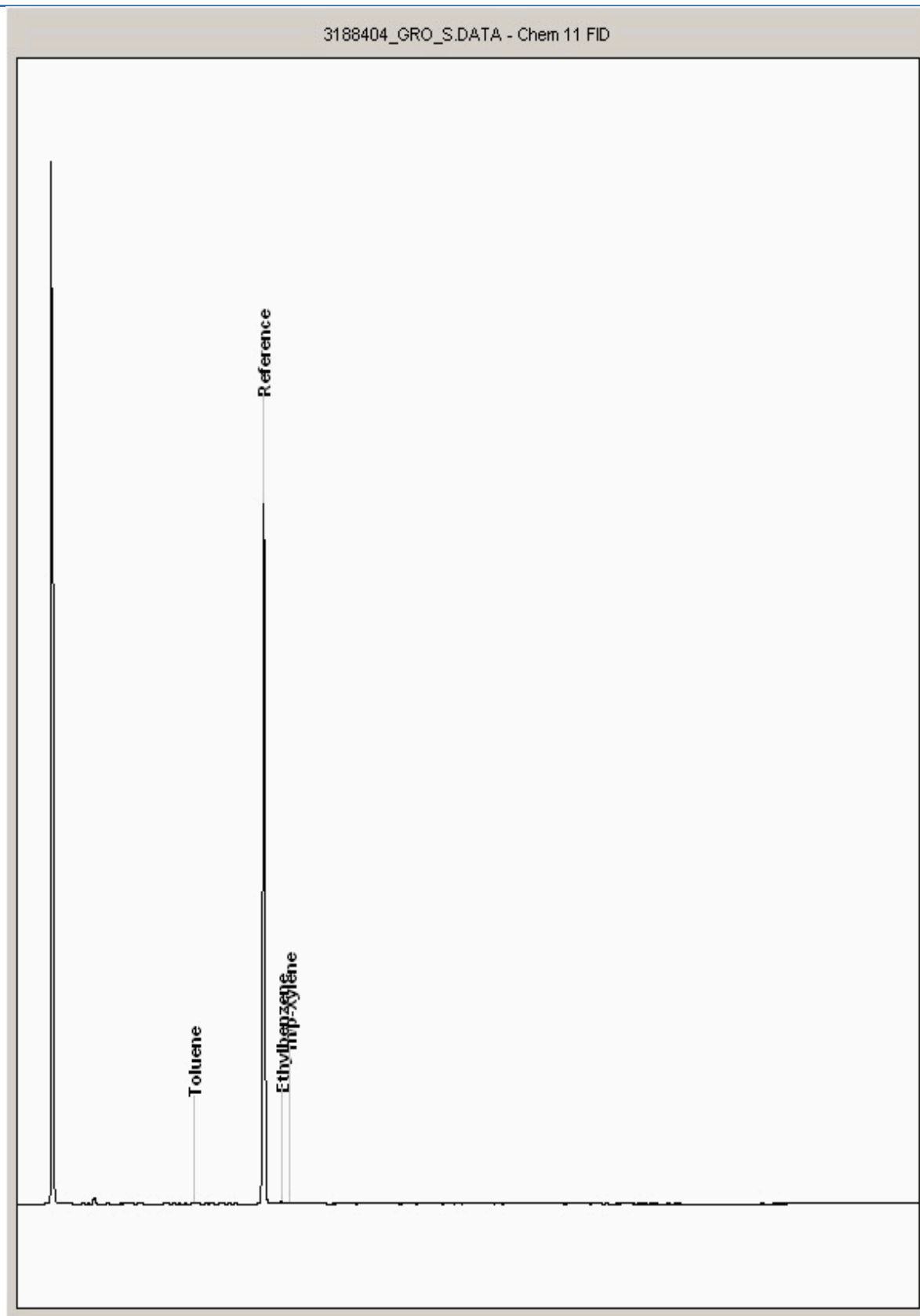
Order Number:
Report Number: 125242
Superseded Report: 125112

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3188404
Sample ID : CATP064

Depth : 1.00





SDG:	110330-44	Location:	Coed Darcy Urban Village	Order Number:	
Job:	H_ATKINS_LDC-109	Customer:	Atkins Global Ltd	Report Number:	125242
Client Reference:	Commercial Area	Attention:	Selina Bamforth	Superseded Report:	125112

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH4 by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.
2. Samples will be run in duplicate upon request, but an additional charge may be incurred.
3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.
4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.
5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.
6. When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.
7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample -similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.
8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.
9. NDP -No determination possible due to insufficient/unsuitable sample.
10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.
11. A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.
12. Results relate only to the items tested
13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.
14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.
15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).
16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).
17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.
18. Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene only is not accredited.
19. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.
20. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.
21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.
22. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.
23. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials -whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.
24. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C4 -C10 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

SOLID MATRICES EXTRACTION SUMMARY				
ANALYSIS	D/C OR VET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
SOLVENT EXTRACTABLE MATTER	D&C	DOM	SOX THERM	GRAVIMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOX THERM	GRAVIMETRIC
THIN LAYER CHROMATOGRAPHY	D&C	DOM	SOX THERM	ATROSCAN
ELEMENTAL SULPHUR	D&C	DOM	SOX THERM	HPLC
PHENOLSBY GCMS	VET	DOM	SOX THERM	GCMS
HERBICIDES	D&C	HEXANEACETONE	SOX THERM	GCMS
PESTICIDES	D&C	HEXANEACETONE	SOX THERM	GCMS
EPH (DRO)	D&C	HEXANEACETONE	END OVEREND	GC FID
EPH (MINOIL)	D&C	HEXANEACETONE	END OVEREND	GC FID
EPH (CLEANED UP)	D&C	HEXANEACETONE	END OVEREND	GC FID
EPH OVG BY GC	D&C	HEXANEACETONE	END OVEREND	GC FID
PCB TOT / PCB CON	D&C	HEXANEACETONE	END OVEREND	GCMS
POLYAROMATIC HYDROCARBONS (MS)	VET	HEXANEACETONE	MICROWAVE TM28.	GCMS
C8-C40(C8-C40) EZ FLASH	VET	HEXANEACETONE	SHAKER	GCEZ
POLYAROMATIC HYDROCARBONS RAPID GC	VET	HEXANEACETONE	SHAKER	GCEZ
SEM VOLATILE ORGANIC COMPOUNDS	VET	DOMACETONE	SONICATE	GCMS

LIQUID MATRICES EXTRACTION SUMMARY			
ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAHMS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
EPH OVG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
SVOC	DOM	LIQUID/LIQUID SHAKE	GCMS
FREE SULPHUR	DOM	SOLID PHASE EXTRACTION	HPLC
PEST COP/OPP	DOM	LIQUID/LIQUID SHAKE	GCMS
TRAZINE HERBS	DOM	LIQUID/LIQUID SHAKE	GCMS
PHENOLSMS	DOM	SOLID PHASE EXTRACTION	GCMS
TPH by INFRARED (R)	TCE	LIQUID/LIQUID SHAKE	HPLC
MINERAL OIL by IR	TCE	LIQUID/LIQUID SHAKE	HPLC
GLYCOLS	NONE	DIRECT INJECTION	GCMS

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-



Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date: 12 April 2011
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 110331-62
Your Reference: Commercial Area
Location: Coed Darcy Urban Village
Report No: 125159

We received 42 samples on Thursday March 31, 2011 and 36 of these samples were scheduled for analysis which was completed on Tuesday April 12, 2011. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:

Sonia McWhan

Operations Manager



1291
GROUP



SDG:	110331-62	Location:	Coed Darcy Urban Village	Order Number:	
Job:	H_ATKINS_LDC-109	Customer:	Atkins Global Ltd	Report Number:	125159
Client Reference:	Commercial Area	Attention:	Selina Bamforth	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
3198022	CATP060		0.60	29/03/2011
3197992	CATP068		0.60	29/03/2011
3197993	CATP068		1.50	29/03/2011
3197994	CATP069		0.50	29/03/2011
3197996	CATP069		1.50	29/03/2011
3197988	CATP072		0.40	30/03/2011
3197989	CATP072		1.20	30/03/2011
3197990	CATP072		1.70	30/03/2011
3197980	CATP073		0.40	30/03/2011
3197986	CATP073		1.50	30/03/2011
3198010	CATP074		0.90	30/03/2011
3198011	CATP074		1.50	30/03/2011
3198001	CATP075		0.70	30/03/2011
3198003	CATP075		1.30	30/03/2011
3198005	CATP076		0.70	30/03/2011
3198006	CATP076		1.50	30/03/2011
3198018	CATP077		0.80	30/03/2011
3198019	CATP077		1.40	30/03/2011
3198012	CATP078		1.10	30/03/2011
3198014	CATP078		2.10	30/03/2011
3198015	CATP079		0.70	30/03/2011
3198016	CATP079		1.70	30/03/2011
3198017	CATP079		2.70	30/03/2011
3197979	CATP080		0.80	30/03/2011
3197999	CATP082		0.50	30/03/2011
3198000	CATP082		1.50	30/03/2011
3197973	CATP100		0.50	30/03/2011
3197974	CATP100		1.20	30/03/2011
3197977	CATP101		0.50	30/03/2011
3197978	CATP101		1.00	30/03/2011
3197968	CATP102		0.90	30/03/2011
3197970	CATP102		1.60	30/03/2011
3197964	CATP103		0.80	30/03/2011
3197965	CATP103		1.60	30/03/2011
3197967	CATP103		2.00	30/03/2011
3197960	CATP104		0.30	30/03/2011
3197961	CATP104		1.40	30/03/2011
3197962	CATP104		2.30	30/03/2011

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	3197962		CATP104				2.30		60g VOC 250g Amber Jar 1kg TUB	
	3197961		CATP104				1.40		60g VOC 250g Amber Jar 1kg TUB	
	3197960		CATP104				0.30		60g VOC 250g Amber Jar 1kg TUB	
	3197965		CATP103				1.60		60g VOC 250g Amber Jar 1kg TUB	
Alkali Metals by iCap-OES (Soil)	3197964		CATP103				0.80		60g VOC 250g Amber Jar 1kg TUB	
	3197970		CATP102				1.60		60g VOC 250g Amber Jar 1kg TUB	
	3197968		CATP102				0.90		60g VOC 250g Amber Jar 1kg TUB	
	3197978		CATP101				1.00		60g VOC 250g Amber Jar 1kg TUB	
	3197977		CATP101				0.50		60g VOC 250g Amber Jar 1kg TUB	
	3197974		CATP100				1.20		60g VOC 250g Amber Jar 1kg TUB	
	3197973		CATP100				0.50		60g VOC 250g Amber Jar 1kg TUB	
	3197979		CATP080				0.80		60g VOC 250g Amber Jar 1kg TUB	
	3197986		CATP073				1.50		60g VOC 250g Amber Jar 1kg TUB	
	3197980		CATP073				0.40		60g VOC 250g Amber Jar 1kg TUB	
Anions by Kone (soil)	All	NDPs: 0 Tests: 35								
Asbestos Containing Material Screen	All	NDPs: 0 Tests: 19								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 35								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 35								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 35								
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 35								
	Cadmium	NDPs: 0 Tests: 35								
	Chromium	NDPs: 0 Tests: 35								
	Copper	NDPs: 0 Tests: 35								
	Lead	NDPs: 0 Tests: 35								
	Mercury	NDPs: 0 Tests: 35								
	Nickel	NDPs: 0 Tests: 35								
	Selenium	NDPs: 0 Tests: 35								
	Vanadium	NDPs: 0 Tests: 35								



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

SOLID			Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
Results Legend X Test N No Determination Possible			3197962		CATP104				2.30		60g VOC 250g Amber Jar 1kg TUB	
			3197961		CATP104				1.40		60g VOC 250g Amber Jar 1kg TUB	
			3197960		CATP104				0.30		60g VOC 250g Amber Jar 1kg TUB	
			3197965		CATP103				1.60		60g VOC 250g Amber Jar 1kg TUB	
			3197964		CATP103				0.80		60g VOC 250g Amber Jar 1kg TUB	
			3197970		CATP102				1.60		60g VOC 250g Amber Jar 1kg TUB	
			3197968		CATP102				0.90		60g VOC 250g Amber Jar 1kg TUB	
			3197978		CATP101				1.00		60g VOC 250g Amber Jar 1kg TUB	
			3197977		CATP101				0.50		60g VOC 250g Amber Jar 1kg TUB	
			3197974		CATP100				1.20		60g VOC 250g Amber Jar 1kg TUB	
			3197973		CATP100				0.50		60g VOC 250g Amber Jar 1kg TUB	
			3197986		CATP073				1.50		60g VOC 250g Amber Jar 1kg TUB	
			3197980		CATP073				0.40		60g VOC 250g Amber Jar 1kg TUB	
Metals by iCap-OES (Soil)	Zinc	NDPs: 0 Tests: 35	X	X	X	X	X	X	X	X	X	X
NO3, NO2 and TON by KONE (s)	All	NDPs: 0 Tests: 35	X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 35	X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 35	X	X	X	X	X	X	X	X	X	X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 35	X	X	X	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 35	X	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 35	X	X	X	X	X	X	X	X	X	X



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Attention: Selina Bamforth

Order Number:
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SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	3197992		CATP068				0.60		250g Amber Jar 60g VOC 1kg TUB	
	3197993		CATP068				1.50		250g Amber Jar 60g VOC 1kg TUB	
	3197994		CATP069				0.50		250g Amber Jar 60g VOC 1kg TUB	
	3197996		CATP069				1.50		250g Amber Jar 60g VOC 1kg TUB	
Alkali Metals by iCap-OES (Soil)	3197988		CATP072				0.40		400g Tub 250g Amber Jar 60g VOC	
	3197989		CATP072				1.20		400g Tub 250g Amber Jar 60g VOC	
	3197986		CATP073				1.50		400g Tub 250g Amber Jar 60g VOC	
	3198010		CATP074				0.90		400g Tub 250g Amber Jar 60g VOC	
	3198001		CATP075				0.70		400g Tub 250g Amber Jar 60g VOC	
	3198003		CATP075				1.30		400g Tub 250g Amber Jar 60g VOC	
	3198005		CATP076				0.70		400g Tub 250g Amber Jar 60g VOC	
	3198006		CATP076				1.50		400g Tub 250g Amber Jar 60g VOC	
	3197999		CATP082				0.50		400g Tub 250g Amber Jar 60g VOC	
	3198000		CATP082				1.50		400g Tub 250g Amber Jar 60g VOC	
Anions by Kone (soil)	All	NDPs: 0 Tests: 35								
Asbestos Containing Material Screen	All	NDPs: 0 Tests: 19								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 35								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 35								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 35								
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 35								
	Cadmium	NDPs: 0 Tests: 35								
	Chromium	NDPs: 0 Tests: 35								
	Copper	NDPs: 0 Tests: 35								
	Lead	NDPs: 0 Tests: 35								
	Mercury	NDPs: 0 Tests: 35								
	Nickel	NDPs: 0 Tests: 35								
	Selenium	NDPs: 0 Tests: 35								
	Vanadium	NDPs: 0 Tests: 35								



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SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	3198000		CATP082				1.50		60g VOC	
	3197999		CATP082				0.50		400g Tub	
	3198006		CATP076				1.50		250g Amber Jar	
	3198005		CATP076				0.70		60g VOC	
Metals by iCap-OES (Soil)	Zinc	NDPs: 0 Tests: 35								
NO3, NO2 and TON by KONE (s)	All	NDPs: 0 Tests: 35								
PCBs by GCMS	All	NDPs: 0 Tests: 2								
pH	All	NDPs: 0 Tests: 35								
Sample description	All	NDPs: 0 Tests: 35								
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 35								
TPH CWG GC (S)	All	NDPs: 0 Tests: 35								
VOC MS (S)	All	NDPs: 0 Tests: 35								



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Customer: Atkins Global Ltd
Attention: Selina Bamforth

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SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)											
	Customer Sample Reference											
	AGS Reference											
	Depth (m)											
	Container											
			3198017	CATP079	2.70	60g VOC						
			3198016	CATP079	1.70	400g Tub 250g Amber Jar 60g VOC						
			3198015	CATP079	0.70	400g Tub 250g Amber Jar 60g VOC						
			3198014	CATP078	2.10	400g Tub 250g Amber Jar 60g VOC						
			3198012	CATP078	1.10	400g Tub 250g Amber Jar 60g VOC						
			3198019	CATP077	1.40	400g Tub 250g Amber Jar 60g VOC						
			3198018	CATP077	0.80	400g Tub 250g Amber Jar 60g VOC						
			3198011	CATP074	1.50	400g Tub 250g Amber Jar 60g VOC						
			3198010	CATP074	0.90	400g Tub 250g Amber Jar 60g VOC						
			3198022	CATP060	0.60	BAG						
Alkali Metals by iCap-OES (Soil)	All	NDPs: 0 Tests: 35					X	X	X	X	X	
Anions by Kone (soil)	All	NDPs: 0 Tests: 35					X	X	X	X	X	
Asbestos Containing Material Screen	All	NDPs: 0 Tests: 19					X			X		
Asbestos Identification	All	NDPs: 0 Tests: 1					X					
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 35					X	X	X	X	X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 35					X	X	X	X	X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 35					X	X	X	X	X	X
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 35					X	X	X	X	X	
	Cadmium	NDPs: 0 Tests: 35					X	X	X	X	X	
	Chromium	NDPs: 0 Tests: 35					X	X	X	X	X	
	Copper	NDPs: 0 Tests: 35					X	X	X	X	X	
	Lead	NDPs: 0 Tests: 35					X	X	X	X	X	
	Mercury	NDPs: 0 Tests: 35					X	X	X	X	X	
	Nickel	NDPs: 0 Tests: 35					X	X	X	X	X	
	Selenium	NDPs: 0 Tests: 35					X	X	X	X	X	

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Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	3198017		CATP079				2.70		60q VOC 400q Tub	
	3198016		CATP079				1.70		250q Amber Jar 60q VOC 400q Tub	
	3198015		CATP079				0.70		250q Amber Jar 60q VOC 400q Tub	
	3198014		CATP078				2.10		250q Amber Jar 60q VOC 400q Tub	
	3198012		CATP078				1.10		250q Amber Jar 60q VOC 400q Tub	
	3198019		CATP077				1.40		250q Amber Jar 60q VOC 400q Tub	
	3198018		CATP077				0.80		250q Amber Jar 60q VOC 400q Tub	
	3198011		CATP074				1.50		250q Amber Jar 60q VOC 400q Tub	
	3198010		CATP074				0.90		250q Amber Jar 60q VOC	
	3198022		CATP080				0.60		BAG	
Metals by iCap-OES (Soil)	Vanadium	NDPs: 0 Tests: 35		X		X		X		
	Zinc	NDPs: 0 Tests: 35		X		X		X		
NO3, NO2 and TON by KONE (s)	All	NDPs: 0 Tests: 35		X		X		X		
pH	All	NDPs: 0 Tests: 35			X		X		X	
Sample description	All	NDPs: 0 Tests: 35		X		X		X		
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 35		X		X		X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 35		X		X		X		
VOC MS (S)	All	NDPs: 0 Tests: 35		X		X		X		



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Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
3197992	CATP068	0.60	Dark Brown	Clay Loam	0.063 - 0.1 mm	Stones	Crushed Brick
3197993	CATP068	1.50	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
3197994	CATP069	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
3197996	CATP069	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
3197988	CATP072	0.40	Dark Brown	Top Soil	0.063 - 0.1 mm	Stones	Crushed Brick
3197989	CATP072	1.20	Dark Brown	Silty Sand	0.1 - 2 mm	Oil/Petroleum	N/A
3197980	CATP073	0.40	Dark Brown	Top Soil	0.063 - 0.1 mm	Stones	Crushed Brick
3197986	CATP073	1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	N/A
3198010	CATP074	0.90	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Oil/Petroleum
3198011	CATP074	1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Oil/Petroleum
3198001	CATP075	0.70	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
3198003	CATP075	1.30	Light Brown	Sand	0.1 - 2 mm	Stones	Oil/Petroleum
3198005	CATP076	0.70	Light Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
3198006	CATP076	1.50	Light Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Oil/Petroleum
3198018	CATP077	0.80	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
3198019	CATP077	1.40	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
3198012	CATP078	1.10	Light Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	None
3198014	CATP078	2.10	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
3198015	CATP079	0.70	Dark Brown	Sand	0.1 - 2 mm	Stones	Oil/Petroleum
3198016	CATP079	1.70	Light Brown	Silty Clay	0.063 - 0.1 mm	Stones	Oil/Petroleum
3198017	CATP079	2.70	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
3197979	CATP080	0.80	Dark Brown	Gravel	2 - 10 mm	Stones	Crushed Brick
3197999	CATP082	0.50	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
3198000	CATP082	1.50	Grey	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	N/A
3197973	CATP100	0.50	Black	Sand	0.1 - 2 mm	Stones	Brick
3197974	CATP100	1.20	Dark Brown	Clay Loam	0.063 - 0.1 mm	Stones	None
3197977	CATP101	0.50	Black	Sand	0.1 - 2 mm	Stones	N/A
3197978	CATP101	1.00	Black	Sand	0.1 - 2 mm	Stones	Crushed Brick
3197968	CATP102	0.90	Dark Brown	Loamy Sand	<0.063 mm	Stones	None
3197970	CATP102	1.60	Dark Brown	Sandy Clay Loam	0.063 - 0.1 mm	Stones	None
3197964	CATP103	0.80	Dark Brown	Sand	0.1 - 2 mm	Stones	None
3197965	CATP103	1.60	Grey	Sand	0.1 - 2 mm	Oil/Petroleum	Stones
3197960	CATP104	0.30	Dark Brown	Sand	0.1 - 2 mm	Stones	None
3197961	CATP104	1.40	Dark Brown	Sand	0.1 - 2 mm	Stones	Oil/Petroleum
3197962	CATP104	2.30	Light Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones



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These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

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[illegible]

CERTIFICATE OF ANALYSIS

SDG:	110331-62
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Results Legend			Customer Sample Ref.		CATP078	CATP079	CATP079	CATP079	CATP080	CATP082
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		2.10	0.70	1.70	2.70	0.80	0.50
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.				30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011
aq	Aqueous / settled sample.				31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011
diss.filt	Dissolved / filtered sample.				110331-62	110331-62	110331-62	110331-62	110331-62	110331-62
tot.unfilt	Total / unfiltered sample.				3198014	3198015	3198016	3198017	3197979	3197999
*	subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.									
Component	LOD/Units	Method								
Asbestos Containing Material Screen	-	TM001			No ACM Detected				No ACM Detected	
pH	1 pH Units	TM133	7.15	M	6.97	M	6.09	M	4.5	M
PCB congener 118	<3 µg/kg	TM168								<3
PCB congener 81	<3 µg/kg	TM168								<3
PCB congener 77	<3 µg/kg	TM168								<3
PCB congener 123	<3 µg/kg	TM168								<3
PCB congener 114	<3 µg/kg	TM168								<3
PCB congener 105	<3 µg/kg	TM168								<3
PCB congener 126	<3 µg/kg	TM168								<3
PCB congener 167	<3 µg/kg	TM168								<3
PCB congener 156	<3 µg/kg	TM168								<3
PCB congener 157	<3 µg/kg	TM168								<3
PCB congener 169	<3 µg/kg	TM168								<3
PCB congener 189	<3 µg/kg	TM168								<3
PCBs, Total WHO 12	<3 µg/kg	TM168								<3
Arsenic	<0.6 mg/kg	TM181	5.84	M	23.1	M	6.39	M	5.77	M
Cadmium	<0.02 mg/kg	TM181	0.39	M	0.455	M	0.206	M	0.308	M
Chromium	<0.9 mg/kg	TM181	17.3	M	10.6	M	12.9	M	16.8	M
Copper	<1.4 mg/kg	TM181	15.6	M	65	M	16.6	M	18.1	M
Lead	<0.7 mg/kg	TM181	14.6	M	67.4	M	12.9	M	16.3	M
Mercury	<0.14 mg/kg	TM181	<0.14	M	2.42	M	<0.14	M	0.95	M
Nickel	<0.2 mg/kg	TM181	34.2	M	28.8	M	25.9	M	36.3	M
Selenium	<1 mg/kg	TM181	<1	#	1.37	#	<1	#	1.62	#
Vanadium	<0.2 mg/kg	TM181	15.1	#	30.4	#	13.8	#	15.3	#
Zinc	<1.9 mg/kg	TM181	75	M	61.3	M	58.2	M	79.9	M
Magnesium	<8 mg/kg	TM224	3570		557		2160		3270	
Water Soluble Sulphate as SO4 2:1 Extract	<0.008 g/l	TM243	<0.008	M	0.107	M	0.0168	M	0.15	M
Nitrate as NO3, 2:1 water soluble	<1 mg/kg	TM243	<1		<1		<1		<1	

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Attention: Selina Bamforth

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Semi Volatile Organic Compounds

Results Legend			Customer Sample Ref.		CATP068	CATP068	CATP069	CATP069	CATP072	CATP072						
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.60 Soil/Solid 29/03/2011 31/03/2011 110331-62 3197992	1.50 Soil/Solid 29/03/2011 31/03/2011 110331-62 3197993	0.50 Soil/Solid 29/03/2011 31/03/2011 110331-62 3197994	1.50 Soil/Solid 29/03/2011 31/03/2011 110331-62 3197996	0.40 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197988	1.20 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197989								
M	mCERTS accredited.															
S	Non-conforming work.															
aq	Aqueous / settled sample.															
diss.filt	Dissolved / filtered sample.															
tot.unfilt	Total / unfiltered sample.															
*	subcontracted test.															
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.															
Component									LOD/Units	Method						
Phenol									<100 µg/kg	TM157	<100	<100	1650	595	<500	<100
Pentachlorophenol									<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100
n-Nitroso-n-dipropylamine		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
Nitrobenzene		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
Isophorone		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
Hexachloroethane		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
Hexachlorocyclopentadiene		<100 µg/kg	TM157	<100	<200	<200	<400	<500	<100							
Hexachlorobutadiene		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
Hexachlorobenzene		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
n-Dioctyl phthalate		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
Dimethyl phthalate		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
Diethyl phthalate		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
n-Dibutyl phthalate		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
Dibenzofuran		<100 µg/kg	TM157	4160	612	<100	<200	<500	<100							
Carbazole		<100 µg/kg	TM157	6320	<100	<100	<200	<500	<100							
Butylbenzyl phthalate		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
bis(2-Ethylhexyl) phthalate		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
bis(2-Chloroethoxy)methane		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
bis(2-Chloroethyl)ether		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
Azobenzene		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
4-Nitrophenol		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
4-Nitroaniline		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
4-Methylphenol		<100 µg/kg	TM157	<100	<100	636	<200	<500	<100							
4-Chlorophenylphenylether		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
4-Chloroaniline		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
4-Chloro-3-methylphenol		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
4-Bromophenylphenylether		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
3-Nitroaniline		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
2-Nitrophenol		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
2-Nitroaniline		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
2-Methylphenol		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
1,2,4-Trichlorobenzene		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
2-Chlorophenol		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
2,6-Dinitrotoluene		<100 µg/kg	TM157	<100	<100	<100	<200	<500	<100							
2,4-Dinitrotoluene		<100 µg/kg	TM157	<100	1170	<100	<200	<500	<100							

Order Number:
Report Number: 125159
Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Semi Volatile Organic Compounds

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	CATP073 0.40 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197980	CATP073 1.50 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197986	CATP074 0.90 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198010	CATP074 1.50 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198011	CATP075 0.70 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198001	CATP075 1.30 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198003
#	ISO17025 accredited.							
M	mCERTS accredited.							
§	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
Component	LOD/Units							
Phenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<500	<100	<100	<100	<200	<200
Hexachlorobutadiene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157	<500	<100	<100	<100	196	193
Carbazole	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
2-Chlorophenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	348

Order Number:
Report Number: 125159
Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Semi Volatile Organic Compounds

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	CATP076	CATP076	CATP077	CATP077	CATP078	CATP078
#	ISO17025 accredited.		0.70	1.50	0.80	1.40	1.10	2.10
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
Component	LOD/Units		Method					
Phenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<200	<200	<200	<200	<100	<200
Hexachlorobutadiene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	<100	<100	1210	<100	126	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Chlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157	<100	188	<100	<100	<100	<100

Order Number:
Report Number: 125159
Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Semi Volatile Organic Compounds

Results Legend		Customer Sample Ref.	CATP079	CATP079	CATP079	CATP080	CATP082	CATP082
#	ISO17025 accredited. mCERTS accredited. Non-conforming work. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. subcontracted test. % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
M	Depth (m)		0.70	1.70	2.70	0.80	0.50	1.50
S	Sample Type		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Date Sampled		30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011
diss.filt	Date Received		31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011
tot.unfilt	SDG Ref		110331-62	110331-62	110331-62	110331-62	110331-62	110331-62
*	Lab Sample No.(s)		3198015	3198016	3198017	3197979	3197999	3198000
**	AGS Reference							
Component	LOD/Units	Method						
Phenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<1000	<100	<100	<100	<200	<100
Hexachlorobutadiene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	<500	<100	<100	350	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157	1760	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
2-Chlorophenol	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157	<500	<100	<100	<100	<100	<100

Order Number:
Report Number: 125159
Superseded Report:

17:27:34 12/04/2011



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Semi Volatile Organic Compounds

Results Legend		Customer Sample Ref.	CATP100	CATP100	CATP101	CATP101	CATP102	CATP102
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50	1.20	0.50	1.00	0.90	1.60
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.		30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011
aq	Aqueous / settled sample.		31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011
diss.filt	Dissolved / filtered sample.		110331-62	110331-62	110331-62	110331-62	110331-62	110331-62
tot.unfilt	Total / unfiltered sample.		3197973	3197974	3197977	3197978	3197968	3197970
*	subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
Component	LOD/Units	Method						
Phenol	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
Pentachlorophenol	<100 µg/kg	TM157	<200	354	<100	<200	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
Nitrobenzene	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
Isophorone	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
Hexachloroethane	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
Diethyl phthalate	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
n-Butyl phthalate	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
Dibenzofuran	<100 µg/kg	TM157	<200	1350	<100	<200	<100	<100
Carbazole	<100 µg/kg	TM157	<200	130	202	<200	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	<200	<100	<100	299	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
Azobenzene	<100 µg/kg	TM157	<200	294	<100	<200	<100	<100
4-Nitrophenol	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
4-Nitroaniline	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
4-Methylphenol	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
4-Chloroaniline	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
3-Nitroaniline	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
2-Nitrophenol	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
2-Nitroaniline	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
2-Methylphenol	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
2-Chlorophenol	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157	<200	<100	<100	<200	<100	<100

Order Number:
Report Number: 125159
Superseded Report:

17:27:34 12/04/2011



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Semi Volatile Organic Compounds

Results Legend		Customer Sample Ref.	CATP103	CATP103	CATP104	CATP104	CATP104	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.							
S	Non-conforming work.							
aq	Aqueous / settled sample.		0.80	1.60	0.30	1.40	2.30	
diss.filt	Dissolved / filtered sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
tot.unfilt	Total / unfiltered sample.		30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011	
*	subcontracted test.		31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.		110331-62	110331-62	110331-62	110331-62	110331-62	
			3197964	3197965	3197960	3197961	3197962	
Component	LOD/Units	Method						
Phenol	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
Pentachlorophenol	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
Nitrobenzene	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
Isophorone	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
Hexachloroethane	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<200	<400	<200	<400	<200	
Hexachlorobutadiene	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
Hexachlorobenzene	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
n-Dioctyl phthalate	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
Dimethyl phthalate	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
Diethyl phthalate	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
n-Dibutyl phthalate	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
Dibenzofuran	<100 µg/kg	TM157	<100	<200	125	<200	296	
Carbazole	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
Butylbenzyl phthalate	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	<100	<200	<100	286	<100	
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
Azobenzene	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
4-Nitrophenol	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
4-Nitroaniline	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
4-Methylphenol	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
4-Chlorophenylphenylether	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
4-Chloroaniline	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<100	<200	<100	<200	128	
4-Bromophenylphenylether	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
3-Nitroaniline	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
2-Nitrophenol	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
2-Nitroaniline	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
2-Methylphenol	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
2-Chlorophenol	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
2,6-Dinitrotoluene	<100 µg/kg	TM157	<100	<200	<100	<200	<100	
2,4-Dinitrotoluene	<100 µg/kg	TM157	<100	<200	<100	<200	<100	

Order Number:
Report Number: 125159
Superseded Report:

17:27:34 12/04/2011



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.						
#	ISO17025 accredited.		CATP068	CATP068	CATP069	CATP069	CATP072	CATP072
M	mCERTS accredited.	Depth (m)	0.60	1.50	0.50	1.50	0.40	1.20
S	Non-conforming work.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.	Sample Type	29/03/2011	29/03/2011	29/03/2011	29/03/2011	30/03/2011	30/03/2011
diss.filt	Dissolved / filtered sample.	Date Sampled	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011
tot.unfilt	Total / unfiltered sample.	Date Received	110331-62	110331-62	110331-62	110331-62	110331-62	110331-62
*	subcontracted test.	SDG Ref	3197992	3197993	3197994	3197996	3197988	3197989
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	Lab Sample No.(s)						
		AGS Reference						
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	36	118	105	112	70	104
GRO >C5-C12	<44 µg/kg	TM089	12600	781000	40600	550000	51100	668000
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	<100	<5	<100	<5	<100
Benzene	<10 µg/kg	TM089	<10	<200	100	462	<10	<200
Toluene	<2 µg/kg	TM089	<2	<40	93.8	<40	<2	<40
Ethylbenzene	<3 µg/kg	TM089	<3	<60	88.8	317	<3	<60
m,p-Xylene	<6 µg/kg	TM089	<6	<120	819	18000	<6	<120
o-Xylene	<3 µg/kg	TM089	<3	<60	163	2580	<3	<60
m,p,o-Xylene	<10 µg/kg	TM089	<10	<10	981	20500	<10	<10
BTEX, Total	<10 µg/kg	TM089	<10	<10	1260	21300	<10	<10
Aliphatics >C5-C6	<10 µg/kg	TM089	32	5270	249	26200	645	4410
Aliphatics >C6-C8	<10 µg/kg	TM089	490	106000	1520	119000	10100	56100
Aliphatics >C8-C10	<10 µg/kg	TM089	2570	151000	10600	98000	13600	139000
Aliphatics >C10-C12	<10 µg/kg	TM089	4700	251000	11900	132000	10700	225000
Aliphatics >C12-C16	<100 µg/kg	TM173	98900	60300	33400	24400	182000	377000
Aliphatics >C16-C21	<100 µg/kg	TM173	230000	35200	29800	5980	135000	140000
Aliphatics >C21-C35	<100 µg/kg	TM173	2070000	49700	26300	2700	201000	52900
Aliphatics >C35-C44	<100 µg/kg	TM173	714000	10400	986	<100	50000	3830
Total Aliphatics >C12-C44	<100 µg/kg	TM173	3110000	156000	90400	33100	567000	574000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<200	100	462	<10	<200
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<200	93.8	<200	<10	<200
Aromatics >EC8-EC10	<10 µg/kg	TM089	1710	101000	8150	86200	9040	92800
Aromatics >EC10-EC12	<10 µg/kg	TM089	3130	167000	7950	88200	7110	150000
Aromatics >EC12-EC16	<100 µg/kg	TM173	32900	181000	660000	607000	57800	140000
Aromatics >EC16-EC21	<100 µg/kg	TM173	77600	61000	635000	490000	89000	77000
Aromatics >EC21-EC35	<100 µg/kg	TM173	668000	60900	496000	451000	275000	90900
Aromatics >EC35-EC44	<100 µg/kg	TM173	328000	30800	83100	80100	121000	17400
Aromatics >EC40-EC44	<100 µg/kg	TM173	131000	11800	25800	24300	51800	5520
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1110000	333000	1880000	1630000	543000	325000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	4230000	1270000	2010000	2210000	1160000	1570000
Total Aliphatics >C5-35	<100 µg/kg	TM173	2410000	658000	114000	408000	552000	995000
Total Aromatics >C5-35	<100 µg/kg	TM173	783000	570000	1810000	1720000	438000	551000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	3190000	1230000	1920000	2130000	990000	1550000



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	CATP073		CATP074		CATP075	
#	ISO17025 accredited.		0.40		0.90		0.70	
M	mCERTS accredited.	Depth (m)	1.50		1.50		1.30	
S	Non-conforming work.	Sample Type	Soil/Solid		Soil/Solid		Soil/Solid	
aq	Aqueous / settled sample.	Date Sampled	30/03/2011		30/03/2011		30/03/2011	
diss.filt	Dissolved / filtered sample.	Date Received	31/03/2011		31/03/2011		31/03/2011	
tot.unfilt	Total / unfiltered sample.	SDG Ref	110331-62		110331-62		110331-62	
*	subcontracted test.	Lab Sample No.(s)	3197980		3198010		3198001	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	AGS Reference	3197986		3198011		3198003	
Component		LOD/Units	Method					
GRO Surrogate % recovery**		%	TM089		63		100	
GRO >C5-C12		<44 µg/kg	TM089		362		13400	
Methyl tertiary butyl ether (MTBE)		<5 µg/kg	TM089		<5		<5	
Benzene		<10 µg/kg	TM089		<10		24.3	
Toluene		<2 µg/kg	TM089		4.88		<2	
Ethylbenzene		<3 µg/kg	TM089		<3		10.2	
m,p-Xylene		<6 µg/kg	TM089		9.76		<6	
o-Xylene		<3 µg/kg	TM089		3.66		23	
m,p,o-Xylene		<10 µg/kg	TM089		13.4		<10	
BTEX, Total		<10 µg/kg	TM089		18.3		118	
Aliphatics >C5-C6		<10 µg/kg	TM089		36.6		79.4	
Aliphatics >C6-C8		<10 µg/kg	TM089		51.2		311	
Aliphatics >C8-C10		<10 µg/kg	TM089		73.2		1840	
Aliphatics >C10-C12		<10 µg/kg	TM089		78.1		5900	
Aliphatics >C12-C16		<100 µg/kg	TM173		38700		4780	
Aliphatics >C16-C21		<100 µg/kg	TM173		75500		2210	
Aliphatics >C21-C35		<100 µg/kg	TM173		178000		2750	
Aliphatics >C35-C44		<100 µg/kg	TM173		37200		<100	
Total Aliphatics >C12-C44		<100 µg/kg	TM173		330000		9740	
Aromatics >EC5-EC7		<10 µg/kg	TM089		<10		24.3	
Aromatics >EC7-EC8		<10 µg/kg	TM089		<10		<10	
Aromatics >EC8-EC10		<10 µg/kg	TM089		64.7		1320	
Aromatics >EC10-EC12		<10 µg/kg	TM089		52.5		3940	
Aromatics >EC12-EC16		<100 µg/kg	TM173		20800		49300	
Aromatics >EC16-EC21		<100 µg/kg	TM173		70600		37300	
Aromatics >EC21-EC35		<100 µg/kg	TM173		246000		28700	
Aromatics >EC35-EC44		<100 µg/kg	TM173		81800		5500	
Aromatics >EC40-EC44		<100 µg/kg	TM173		28500		1180	
Total Aromatics >EC12-EC44		<100 µg/kg	TM173		419000		121000	
Total Aliphatics & Aromatics >C5-C44		<100 µg/kg	TM173		749000		144000	
Total Aliphatics >C5-35		<100 µg/kg	TM173		293000		17900	
Total Aromatics >C5-35		<100 µg/kg	TM173		337000		121000	
Total Aliphatics & Aromatics >C5-35		<100 µg/kg	TM173		630000		138000	



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	CATP076		CATP077		CATP078		CATP079	
#	ISO17025 accredited.		0.70	1.50	0.80	1.40	1.10	2.10		
M	mCERTS accredited.	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid			
S	Non-conforming work.	30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011			
aq	Aqueous / settled sample.	Sample Type	Sample Type	Sample Type	Sample Type	Sample Type	Sample Type			
diss.filt	Dissolved / filtered sample.	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled			
tot.unfilt	Total / unfiltered sample.	Date Received	Date Received	Date Received	Date Received	Date Received	Date Received			
*	subcontracted test.	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)			
		AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference			
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089	76	85	38	76	66	103		
GRO >C5-C12	<44 µg/kg	TM089	300	60100	3190	1070	932	45700		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	<5	<5	<5	<5	<5		
Benzene	<10 µg/kg	TM089	<10	25.7	<10	<10	<10	19		
Toluene	<2 µg/kg	TM089	2.38	<2	<2	<2	3.39	<2		
Ethylbenzene	<3 µg/kg	TM089	4.76	<3	<3	<3	<3	<3		
m,p-Xylene	<6 µg/kg	TM089	<6	<6	<6	<6	6.78	<6		
o-Xylene	<3 µg/kg	TM089	<3	<3	<3	<3	<3	<3		
m,p,o-Xylene	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10		
BTEX, Total	<10 µg/kg	TM089	<10	25.7	<10	<10	10.2	19		
Aliphatics >C5-C6	<10 µg/kg	TM089	16.7	363	28.3	12	32.8	178		
Aliphatics >C6-C8	<10 µg/kg	TM089	23.8	9020	243	63.5	74.6	8230		
Aliphatics >C8-C10	<10 µg/kg	TM089	65.5	14800	711	176	193	15700		
Aliphatics >C10-C12	<10 µg/kg	TM089	83.3	15600	1040	418	290	6620		
Aliphatics >C12-C16	<100 µg/kg	TM173	7940	97400	40100	7790	5980	285000		
Aliphatics >C16-C21	<100 µg/kg	TM173	34700	69000	84600	2720	5790	204000		
Aliphatics >C21-C35	<100 µg/kg	TM173	250000	98300	284000	<100	17600	187000		
Aliphatics >C35-C44	<100 µg/kg	TM173	142000	28300	81600	<100	4030	71500		
Total Aliphatics >C12-C44	<100 µg/kg	TM173	435000	293000	490000	10500	33400	747000		
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	25.7	<10	<10	<10	19		
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10		
Aromatics >EC8-EC10	<10 µg/kg	TM089	52.4	9860	473	120	134	10500		
Aromatics >EC10-EC12	<10 µg/kg	TM089	55.9	10400	693	278	194	4420		
Aromatics >EC12-EC16	<100 µg/kg	TM173	5130	66400	15300	8710	3200	84000		
Aromatics >EC16-EC21	<100 µg/kg	TM173	14400	43900	40400	5390	2250	104000		
Aromatics >EC21-EC35	<100 µg/kg	TM173	114000	81600	199000	16700	17200	134000		
Aromatics >EC35-EC44	<100 µg/kg	TM173	77400	28900	79100	20600	5690	61200		
Aromatics >EC40-EC44	<100 µg/kg	TM173	30100	9800	29200	10300	2110	23600		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	211000	221000	334000	51400	28300	384000		
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	646000	574000	827000	63000	62600	1180000		
Total Aliphatics >C5-35	<100 µg/kg	TM173	293000	305000	410000	11200	29900	706000		
Total Aromatics >C5-35	<100 µg/kg	TM173	134000	212000	256000	31200	23000	337000		
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	427000	517000	666000	42400	52900	1040000		



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	CATP079	CATP079	CATP079	CATP080	CATP082	CATP082
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.70 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198015	1.70 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198016	2.70 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198017	0.80 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197979	0.50 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197999	1.50 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198000
S	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	60	97	89	29	48	71
GRO >C5-C12	<44 µg/kg	TM089	79000	1980	2740	465	3300	362
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	<5	<5	<5	<5	<5
Benzene	<10 µg/kg	TM089	16.2	<10	82.5	<10	<10	<10
Toluene	<2 µg/kg	TM089	<2	<2	9.04	3.93	3.26	<2
Ethylbenzene	<3 µg/kg	TM089	<3	<3	13.6	<3	17.4	7.38
m,p-Xylene	<6 µg/kg	TM089	<6	6.96	50.9	<6	7.61	<6
o-Xylene	<3 µg/kg	TM089	<3	<3	24.9	<3	<3	<3
m,p,o-Xylene	<10 µg/kg	TM089	<10	<10	75.7	<10	<10	<10
BTEX, Total	<10 µg/kg	TM089	16.2	<10	181	<10	28.3	<10
Aliphatics >C5-C6	<10 µg/kg	TM089	89.1	45.2	48.6	69.4	30.4	17.2
Aliphatics >C6-C8	<10 µg/kg	TM089	11200	281	225	105	91.3	18.5
Aliphatics >C8-C10	<10 µg/kg	TM089	23700	364	699	69.4	521	86.1
Aliphatics >C10-C12	<10 µg/kg	TM089	16900	623	675	95.6	1370	105
Aliphatics >C12-C16	<100 µg/kg	TM173	9330000	7690	3730	114000	119000	5210
Aliphatics >C16-C21	<100 µg/kg	TM173	6650000	9440	<100	417000	396000	2750
Aliphatics >C21-C35	<100 µg/kg	TM173	5550000	11500	<100	622000	1010000	8280
Aliphatics >C35-C44	<100 µg/kg	TM173	2320000	3640	<100	82200	170000	1230
Total Aliphatics >C12-C44	<100 µg/kg	TM173	23900000	32200	3730	1240000	1700000	17500
Aromatics >EC5-EC7	<10 µg/kg	TM089	16.2	<10	82.5	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	15800	249	555	49.8	372	65.2
Aromatics >EC10-EC12	<10 µg/kg	TM089	11200	415	450	62.9	911	68.9
Aromatics >EC12-EC16	<100 µg/kg	TM173	2730000	5920	<100	18900	37600	868
Aromatics >EC16-EC21	<100 µg/kg	TM173	3710000	7260	<100	78100	202000	130
Aromatics >EC21-EC35	<100 µg/kg	TM173	4230000	13400	<100	243000	629000	29100
Aromatics >EC35-EC44	<100 µg/kg	TM173	1840000	6250	<100	77200	139000	2540
Aromatics >EC40-EC44	<100 µg/kg	TM173	764000	1990	<100	30500	45900	797
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	12500000	32800	<100	417000	1010000	32700
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	36400000	67000	6470	1650000	2710000	50500
Total Aliphatics >C5-35	<100 µg/kg	TM173	21600000	29900	5370	1150000	1530000	16500
Total Aromatics >C5-35	<100 µg/kg	TM173	10700000	27200	1100	340000	870000	30300
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	32300000	57200	6470	1490000	2400000	46700



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample Ref.		CATP100	CATP100	CATP101	CATP101	CATP102	CATP102
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference			0.50	1.20	0.50	1.00	0.90	1.60
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.				30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011
aq	Aqueous / settled sample.				31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011
diss.filt	Dissolved / filtered sample.				110331-62	110331-62	110331-62	110331-62	110331-62	110331-62
tot.unfilt	Total / unfiltered sample.				3197973	3197974	3197977	3197978	3197968	3197970
*	subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.									
Component		LOD/Units	Method							
GRO Surrogate % recovery**		%	TM089		22	34	13	14	57	36
GRO >C5-C12		<44 µg/kg	TM089		898	26400	163	391	90.5	2720
Methyl tertiary butyl ether (MTBE)		<5 µg/kg	TM089		<5	<5	<5	<5	<5	<5
Benzene		<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Toluene		<2 µg/kg	TM089		4.92	<2	3.78	2.46	2.32	<2
Ethylbenzene		<3 µg/kg	TM089		11.1	<3	6.3	<3	3.48	<3
m,p-Xylene		<6 µg/kg	TM089		<6	<6	<6	<6	<6	<6
o-Xylene		<3 µg/kg	TM089		<3	<3	<3	<3	<3	<3
m,p,o-Xylene		<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
BTEX, Total		<10 µg/kg	TM089		16	<10	10.1	<10	<10	<10
Aliphatics >C5-C6		<10 µg/kg	TM089		18.5	270	13.9	23.4	22	35.4
Aliphatics >C6-C8		<10 µg/kg	TM089		45.5	3450	22.7	40.6	11.6	136
Aliphatics >C8-C10		<10 µg/kg	TM089		130	7360	30.2	66.4	15.1	510
Aliphatics >C10-C12		<10 µg/kg	TM089		357	6250	32.8	128	11.6	1020
Aliphatics >C12-C16		<100 µg/kg	TM173		63400	1290000	252	79900	6120	117000
Aliphatics >C16-C21		<100 µg/kg	TM173		161000	2110000	6280	282000	22500	682000
Aliphatics >C21-C35		<100 µg/kg	TM173		611000	2050000	45900	5390000	240000	2330000
Aliphatics >C35-C44		<100 µg/kg	TM173		196000	757000	10800	3360000	50600	737000
Total Aliphatics >C12-C44		<100 µg/kg	TM173		1030000	6210000	63200	9120000	319000	3870000
Aromatics >EC5-EC7		<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8		<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10		<10 µg/kg	TM089		101	4910	32.8	44.3	18.6	340
Aromatics >EC10-EC12		<10 µg/kg	TM089		237	4170	21.4	84.9	<10	681
Aromatics >EC12-EC16		<100 µg/kg	TM173		22300	329000	5600	44100	7190	40800
Aromatics >EC16-EC21		<100 µg/kg	TM173		85300	628000	12600	149000	27800	280000
Aromatics >EC21-EC35		<100 µg/kg	TM173		369000	800000	40200	2040000	168000	1200000
Aromatics >EC35-EC44		<100 µg/kg	TM173		186000	262000	12200	1760000	67300	477000
Aromatics >EC40-EC44		<100 µg/kg	TM173		80400	103000	3600	664000	27600	147000
Total Aromatics >EC12-EC44		<100 µg/kg	TM173		663000	2020000	70600	3980000	270000	1990000
Total Aliphatics & Aromatics >C5-C44		<100 µg/kg	TM173		1700000	8250000	134000	13100000	590000	5860000
Total Aliphatics >C5-35		<100 µg/kg	TM173		836000	5470000	52500	5750000	268000	3130000
Total Aromatics >C5-35		<100 µg/kg	TM173		477000	1770000	58500	2230000	203000	1520000
Total Aliphatics & Aromatics >C5-35		<100 µg/kg	TM173		1310000	7230000	111000	7980000	472000	4650000



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	CATP103	CATP103	CATP104	CATP104	CATP104	
#	ISO17025 accredited.		0.80	1.60	0.30	1.40	2.30	
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
S	Non-conforming work.		30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011	
aq	Aqueous / settled sample.		31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011	
diss.filt	Dissolved / filtered sample.		110331-62	110331-62	110331-62	110331-62	110331-62	
tot.unfilt	Total / unfiltered sample.		3197964	3197965	3197960	3197961	3197962	
*	subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
Component	LOD/Units		Method					
GRO Surrogate % recovery**	%	TM089	32	15	31	25	50	
GRO >C5-C12	<44 µg/kg	TM089	215	15000	814	16300	21900	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	<5	<5	<5	<5	
Benzene	<10 µg/kg	TM089	<10	<10	<10	<10	<10	
Toluene	<2 µg/kg	TM089	4.56	<2	31.4	<2	<2	
Ethylbenzene	<3 µg/kg	TM089	6.84	<3	<3	<3	<3	
m,p-Xylene	<6 µg/kg	TM089	<6	<6	<6	<6	<6	
o-Xylene	<3 µg/kg	TM089	<3	<3	<3	<3	<3	
m,p,o-Xylene	<10 µg/kg	TM089	<10	<10	<10	<10	<10	
BTEX, Total	<10 µg/kg	TM089	11.4	<10	31.4	<10	<10	
Aliphatics >C5-C6	<10 µg/kg	TM089	26.2	34.6	26.9	56.6	35.1	
Aliphatics >C6-C8	<10 µg/kg	TM089	30.8	192	106	697	622	
Aliphatics >C8-C10	<10 µg/kg	TM089	31.9	1440	221	2050	2920	
Aliphatics >C10-C12	<10 µg/kg	TM089	49	7390	165	7260	9800	
Aliphatics >C12-C16	<100 µg/kg	TM173	13200	522000	3600	361000	339000	
Aliphatics >C16-C21	<100 µg/kg	TM173	57600	426000	22800	781000	388000	
Aliphatics >C21-C35	<100 µg/kg	TM173	292000	3020000	167000	6680000	2960000	
Aliphatics >C35-C44	<100 µg/kg	TM173	60900	836000	70700	1570000	475000	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	424000	4800000	264000	9390000	4160000	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	31.4	<10	<10	
Aromatics >EC8-EC10	<10 µg/kg	TM089	35.3	960	151	1370	1940	
Aromatics >EC10-EC12	<10 µg/kg	TM089	33.1	4930	110	4840	6530	
Aromatics >EC12-EC16	<100 µg/kg	TM173	9200	44300	7710	294000	428000	
Aromatics >EC16-EC21	<100 µg/kg	TM173	28100	256000	23600	433000	194000	
Aromatics >EC21-EC35	<100 µg/kg	TM173	109000	1440000	171000	3550000	1160000	
Aromatics >EC35-EC44	<100 µg/kg	TM173	57300	488000	125000	1070000	223000	
Aromatics >EC40-EC44	<100 µg/kg	TM173	24900	216000	50100	311000	66700	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	203000	2230000	327000	5350000	2010000	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	628000	7050000	592000	14800000	6190000	
Total Aliphatics >C5-35	<100 µg/kg	TM173	363000	3980000	193000	7830000	3700000	
Total Aromatics >C5-35	<100 µg/kg	TM173	146000	1750000	203000	4290000	1800000	
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	509000	5730000	396000	12100000	5490000	



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample Ref.	CATP068	CATP068	CATP069	CATP069	CATP072	CATP072	
# M § aq diss.filt tot.unfilt * **	ISO17025 accredited. mCERTS accredited. Non-conforming work. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. subcontracted test. % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
Component		LOD/Units	Method	0.60 Soil/Solid 29/03/2011 31/03/2011 110331-62 3197992	1.50 Soil/Solid 29/03/2011 31/03/2011 110331-62 3197993	0.50 Soil/Solid 29/03/2011 31/03/2011 110331-62 3197994	1.50 Soil/Solid 29/03/2011 31/03/2011 110331-62 3197996	0.40 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197988	1.20 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197989
Dibromofluoromethane**		%	TM116	94.9	100	98.6	86.1	91.7	97.8
Toluene-d8**		%	TM116	83.8	93.9	94.1	94.3	90.1	91
4-Bromofluorobenzene**		%	TM116	155	135	120	131	148	129
Dichlorodifluoromethane		<4 µg/kg	TM116	<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
Chloromethane		<7 µg/kg	TM116	<7 #	<7 #	<7 #	<7 #	<7 #	<7 #
Vinyl Chloride		<10 µg/kg	TM116	<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
Bromomethane		<13 µg/kg	TM116	<13 M	<13 M	<13 M	<13 M	<13 M	<13 M
Chloroethane		<14 µg/kg	TM116	<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Trichlorofluoromethane		<6 µg/kg	TM116	<6 M	<6 M	<6 M	<6 M	<6 M	<6 M
1,1-Dichloroethene		<10 µg/kg	TM116	<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
Carbon Disulphide		<7 µg/kg	TM116	40 M	<7 M	<7 M	10.3 M	42.1 M	67.3 M
Dichloromethane		<10 µg/kg	TM116	<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
Methyl Tertiary Butyl Ether		<11 µg/kg	TM116	<11 M	<11 M	<11 M	<11 M	<11 M	<11 M
trans-1-2-Dichloroethene		<11 µg/kg	TM116	<11 M	<11 M	<11 M	<11 M	<11 M	<11 M
1,1-Dichloroethane		<8 µg/kg	TM116	<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
cis-1-2-Dichloroethene		<5 µg/kg	TM116	<5 M	<5 M	<5 M	<5 M	<5 M	<5 M
2,2-Dichloropropane		<12 µg/kg	TM116	<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Bromochloromethane		<14 µg/kg	TM116	<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Chloroform		<8 µg/kg	TM116	<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
1,1,1-Trichloroethane		<7 µg/kg	TM116	<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
1,1-Dichloropropene		<11 µg/kg	TM116	<11 M	<11 M	<11 M	<11 M	<11 M	<11 M
Carbontetrachloride		<14 µg/kg	TM116	<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
1,2-Dichloroethane		<5 µg/kg	TM116	<5 M	<5 M	<5 M	<5 M	<5 M	<5 M
Benzene		<9 µg/kg	TM116	<9 M	<9 M	70.6 M	348 M	29.6 M	119 M
Trichloroethene		<9 µg/kg	TM116	<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
1,2-Dichloropropane		<12 µg/kg	TM116	<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
Dibromomethane		<9 µg/kg	TM116	<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Bromodichloromethane		<7 µg/kg	TM116	<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
cis-1-3-Dichloropropene		<14 µg/kg	TM116	<14 M	<14 M	<14 M	<14 M	<14 M	<14 M
Toluene		<5 µg/kg	TM116	<5 M	<5 M	42.5 M	777 M	40.4 M	49.2 M
trans-1-3-Dichloropropene		<14 µg/kg	TM116	<14	<14	<14	<14	<14	<14
1,1,2-Trichloroethane		<10 µg/kg	TM116	<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
1,3-Dichloropropane		<7 µg/kg	TM116	<7 #	<7 #	<7 #	<7 #	<7 #	<7 #
Tetrachloroethene		<5 µg/kg	TM116	<5 M	<5 M	<5 M	<5 M	<5 M	<5 M
Dibromochloromethane		<13 µg/kg	TM116	<13 M	<13 M	<13 M	<13 M	<13 M	<13 M



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample Ref.	CATP068	CATP068	CATP069	CATP069	CATP072	CATP072
#	ISO17025 accredited.	mCERTS accredited.							
M	Non-conforming work.	Aqueous / settled sample.	Depth (m)	0.60	1.50	0.50	1.50	0.40	1.20
S	Dissolved / filtered sample.	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	subcontracted test.	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.	Date Sampled	29/03/2011	29/03/2011	29/03/2011	29/03/2011	30/03/2011	30/03/2011
diss.filt			Date Received	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011
tot.unfilt			SDG Ref	110331-62	110331-62	110331-62	110331-62	110331-62	110331-62
*			Lab Sample No.(s)	3197992	3197993	3197994	3197996	3197988	3197989
**			AGS Reference						
Component		LOD/Units	Method	CATP068	CATP068	CATP069	CATP069	CATP072	CATP072
1,2-Dibromoethane		<12 µg/kg	TM116	<12	<12	<12	<12	<12	<12
				M	M	M	M	M	M
Chlorobenzene		<5 µg/kg	TM116	<5	<5	<5	<5	<5	<5
				M	M	M	M	M	M
1,1,1,2-Tetrachloroethane		<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10
				M	M	M	M	M	M
Ethylbenzene		<4 µg/kg	TM116	<4	<4	53.8	676	25.3	<4
				M	M	M	M	M	M
p/m-Xylene		<14 µg/kg	TM116	<14	<14	551	17900	166	925
				#	#	#	#	#	#
o-Xylene		<10 µg/kg	TM116	<10	<10	<10	648	55.4	<10
				M	M	M	M	M	M
Styrene		<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10
				M	M	M	M	M	M
Bromoform		<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10
				M	M	M	M	M	M
Isopropylbenzene		<5 µg/kg	TM116	<5	699	<5	603	29.8	<5
				M	M	M	M	M	M
1,1,2,2-Tetrachloroethane		<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10
				#	#	#	#	#	#
1,2,3-Trichloropropane		<17 µg/kg	TM116	<17	<17	<17	<17	<17	<17
				M	M	M	M	M	M
Bromobenzene		<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10
				M	M	M	M	M	M
Propylbenzene		<11 µg/kg	TM116	<11	1620	<11	760	38.8	573
				M	M	M	M	M	M
2-Chlorotoluene		<9 µg/kg	TM116	<9	<9	<9	<9	<9	<9
				M	M	M	M	M	M
1,3,5-Trimethylbenzene		<8 µg/kg	TM116	<8	<8	17500	62900	128	1420
				#	#	#	#	#	#
4-Chlorotoluene		<12 µg/kg	TM116	<12	<12	<12	<12	<12	<12
				M	M	M	M	M	M
tert-Butylbenzene		<12 µg/kg	TM116	<12	<12	<12	<12	<12	<12
				#	#	#	#	#	#
1,2,4-Trimethylbenzene		<9 µg/kg	TM116	<9	3080	1240	21900	515	5460
				#	#	#	#	#	#
sec-Butylbenzene		<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10
				M	M	M	M	M	M
4-Isopropyltoluene		<11 µg/kg	TM116	<11	<11	<11	<11	<11	<11
				M	M	M	M	M	M
1,3-Dichlorobenzene		<6 µg/kg	TM116	<6	<6	<6	<6	<6	<6
				M	M	M	M	M	M
1,4-Dichlorobenzene		<5 µg/kg	TM116	<5	<5	<5	<5	<5	<5
				M	M	M	M	M	M
n-Butylbenzene		<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10
				M	M	M	M	M	M
1,2-Dichlorobenzene		<12 µg/kg	TM116	<12	<12	<12	<12	<12	<12
				M	M	M	M	M	M
1,2-Dibromo-3-chloropropane		<14 µg/kg	TM116	<14	<14	<14	<14	<14	<14
				M	M	M	M	M	M
Tert-amyl methyl ether		<15 µg/kg	TM116	<15	<15	<15	<15	<15	<15
1,2,4-Trichlorobenzene		<6 µg/kg	TM116	<6	<6	<6	<6	<6	<6
				#	#	#	#	#	#
Hexachlorobutadiene		<12 µg/kg	TM116	<12	<12	<12	<12	<12	<12
Naphthalene		<13 µg/kg	TM116	<13	<13	265	<13	418	<13
				M	M	M	M	M	M
1,2,3-Trichlorobenzene		<6 µg/kg	TM116	<6	<6	<6	<6	<6	<6
				M	M	M	M	M	M



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample Ref.	CATP073		CATP074		CATP075	
#	ISO17025 accredited.		0.40	1.50	0.90	1.50	0.70	1.30
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.		30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011
aq	Aqueous / settled sample.	Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011
diss.filt	Dissolved / filtered sample.		110331-62	110331-62	110331-62	110331-62	110331-62	110331-62
tot.unfilt	Total / unfiltered sample.	Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	3197980	3197986	3198010	3198011	3198001	3198003
*	subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
Component	LOD/Units	Method	CATP073		CATP074		CATP075	
Dibromofluoromethane**	%	TM116	98.1	101	101	101	100	102
Toluene-d8**	%	TM116	92.2	94.5	94	94.8	96.9	95.5
4-Bromofluorobenzene**	%	TM116	151	123	138	125	123	126
Dichlorodifluoromethane	<4 µg/kg	TM116	<4	<4	<8	<4	<8	<8
Chloromethane	<7 µg/kg	TM116	<7	<7	<14	<7	<14	<14
Vinyl Chloride	<10 µg/kg	TM116	<10	<10	<20	<10	<20	<20
Bromomethane	<13 µg/kg	TM116	<13	<13	<26	<13	<26	<26
Chloroethane	<14 µg/kg	TM116	<14	<14	<28	<14	<28	<28
Trichlorofluoromethane	<6 µg/kg	TM116	<6	<6	<12	<6	<12	<12
1,1-Dichloroethene	<10 µg/kg	TM116	<10	<10	<20	<10	<20	<20
Carbon Disulphide	<7 µg/kg	TM116	10.8	13.3	37.2	<7	19.3	<14
Dichloromethane	<10 µg/kg	TM116	<10	<10	<20	<10	<20	<20
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116	<11	<11	<22	<11	<22	<22
trans-1,2-Dichloroethene	<11 µg/kg	TM116	<11	<11	<22	<11	<22	<22
1,1-Dichloroethane	<8 µg/kg	TM116	<8	<8	<16	<8	<16	<16
cis-1,2-Dichloroethene	<5 µg/kg	TM116	<5	<5	<10	<5	<10	<10
2,2-Dichloropropane	<12 µg/kg	TM116	<12	<12	<24	<12	<24	<24
Bromochloromethane	<14 µg/kg	TM116	<14	<14	<28	<14	<28	<28
Chloroform	<8 µg/kg	TM116	<8	<8	<16	<8	<16	<16
1,1,1-Trichloroethane	<7 µg/kg	TM116	<7	<7	<14	<7	<14	<14
1,1-Dichloropropene	<11 µg/kg	TM116	<11	<11	<22	<11	<22	<22
Carbontetrachloride	<14 µg/kg	TM116	<14	<14	<28	<14	<28	<28
1,2-Dichloroethane	<5 µg/kg	TM116	<5	<5	<10	<5	<10	<10
Benzene	<9 µg/kg	TM116	12.3	29.9	<18	<9	<18	<18
Trichloroethene	<9 µg/kg	TM116	<9	<9	<18	<9	<18	<18
1,2-Dichloropropane	<12 µg/kg	TM116	<12	<12	<24	<12	<24	<24
Dibromomethane	<9 µg/kg	TM116	<9	<9	<18	<9	<18	<18
Bromodichloromethane	<7 µg/kg	TM116	<7	<7	<14	<7	<14	<14
cis-1,3-Dichloropropene	<14 µg/kg	TM116	<14	<14	<28	<14	<28	<28
Toluene	<5 µg/kg	TM116	15.3	<5	<10	<5	<10	<10
trans-1,3-Dichloropropene	<14 µg/kg	TM116	<14	<14	<28	<14	<28	<28
1,1,2-Trichloroethane	<10 µg/kg	TM116	<10	<10	<20	<10	<20	<20
1,3-Dichloropropane	<7 µg/kg	TM116	<7	<7	<14	<7	<14	<14
Tetrachloroethene	<5 µg/kg	TM116	<5	<5	<10	<5	<10	<10
Dibromochloromethane	<13 µg/kg	TM116	<13	<13	<26	<13	<26	<26

Order Number:
Report Number: 125159
Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample Ref.		CATP076	CATP076	CATP077	CATP077	CATP078	CATP078
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.70	1.50	0.80	1.40	1.10	2.10		
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
S	Non-conforming work.		30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011		
aq	Aqueous / settled sample.		31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011		
diss.filt	Dissolved / filtered sample.		110331-62	110331-62	110331-62	110331-62	110331-62	110331-62		
tot.unfilt	Total / unfiltered sample.		3198005	3198006	3198018	3198019	3198012	3198014		
*	subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.									
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM116	104	98.8	105	102	98.5	102		
Toluene-d8**	%	TM116	90.9	89.1	96.2	95.5	94.5	95.9		
4-Bromofluorobenzene**	%	TM116	141	124	116	127	123	122		
Dichlorodifluoromethane	<4 µg/kg	TM116	<4	<4	<80	<4	<4	<4		
Chloromethane	<7 µg/kg	TM116	<7	<7	<140	<7	<7	<7		
Vinyl Chloride	<10 µg/kg	TM116	<10	<10	<200	<10	<10	<10		
Bromomethane	<13 µg/kg	TM116	<13	<13	<260	<13	<13	<13		
Chloroethane	<14 µg/kg	TM116	<14	<14	<280	<14	<14	<14		
Trichlorofluoromethane	<6 µg/kg	TM116	<6	<6	<120	<6	<6	<6		
1,1-Dichloroethene	<10 µg/kg	TM116	<10	<10	<200	<10	<10	<10		
Carbon Disulphide	<7 µg/kg	TM116	<7	<7	<140	<7	<7	<7		
Dichloromethane	<10 µg/kg	TM116	<10	<10	<200	<10	<10	<10		
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116	<11	<11	<220	<11	<11	<11		
trans-1-2-Dichloroethene	<11 µg/kg	TM116	<11	<11	<220	<11	<11	<11		
1,1-Dichloroethane	<8 µg/kg	TM116	<8	<8	<160	<8	<8	<8		
cis-1-2-Dichloroethene	<5 µg/kg	TM116	<5	<5	<100	<5	<5	<5		
2,2-Dichloropropane	<12 µg/kg	TM116	<12	<12	<240	<12	<12	<12		
Bromochloromethane	<14 µg/kg	TM116	<14	<14	<280	<14	<14	<14		
Chloroform	<8 µg/kg	TM116	<8	<8	<160	<8	<8	<8		
1,1,1-Trichloroethane	<7 µg/kg	TM116	<7	<7	<140	<7	<7	<7		
1,1-Dichloropropene	<11 µg/kg	TM116	<11	<11	<220	<11	<11	<11		
Carbontetrachloride	<14 µg/kg	TM116	<14	<14	<280	<14	<14	<14		
1,2-Dichloroethane	<5 µg/kg	TM116	<5	<5	<100	<5	<5	<5		
Benzene	<9 µg/kg	TM116	<9	<9	<180	<9	11.8	<9		
Trichloroethene	<9 µg/kg	TM116	<9	<9	<180	<9	<9	<9		
1,2-Dichloropropane	<12 µg/kg	TM116	<12	<12	<240	<12	<12	<12		
Dibromomethane	<9 µg/kg	TM116	<9	<9	<180	<9	<9	<9		
Bromodichloromethane	<7 µg/kg	TM116	<7	<7	<140	<7	<7	<7		
cis-1-3-Dichloropropene	<14 µg/kg	TM116	<14	<14	<280	<14	<14	<14		
Toluene	<5 µg/kg	TM116	10.4	<5	<100	<5	5.65	<5		
trans-1-3-Dichloropropene	<14 µg/kg	TM116	<14	<14	<280	<14	<14	<14		
1,1,2-Trichloroethane	<10 µg/kg	TM116	<10	<10	<200	<10	<10	<10		
1,3-Dichloropropane	<7 µg/kg	TM116	<7	<7	<140	<7	<7	<7		
Tetrachloroethene	<5 µg/kg	TM116	<5	<5	<100	<5	<5	<5		
Dibromochloromethane	<13 µg/kg	TM116	<13	<13	<260	<13	<13	<13		



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample Ref.	CATP076	CATP076	CATP077	CATP077	CATP078	CATP078
#	ISO17025 accredited. mCERTS accredited. Non-conforming work. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. subcontracted test. % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
M		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.70 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198005	1.50 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198006	0.80 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198018	1.40 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198019	1.10 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198012	2.10 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198014
aq								
diss.filt								
tot.unfilt								
*								
**								
Component	LOD/Units	Method						
1,2-Dibromoethane	<12 µg/kg	TM116	<12 M	<12 M	<240 M	<12 M	<12 M	<12 M
Chlorobenzene	<5 µg/kg	TM116	<5 M	<5 M	<100 M	<5 M	<5 M	<5 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<10 M	<10 M	<10 M
Ethylbenzene	<4 µg/kg	TM116	11.7 M	<4 M	<80 M	<4 M	<4 M	<4 M
p/m-Xylene	<14 µg/kg	TM116	<14 #	<14 #	<280 #	<14 #	<14 #	<14 #
o-Xylene	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<10 M	<10 M	<10 M
Styrene	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<10 M	<10 M	<10 M
Bromoform	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<10 M	<10 M	<10 M
Isopropylbenzene	<5 µg/kg	TM116	<5 M	146 M	<100 M	<5 M	<5 M	<5 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116	<10 #	<10 #	<200 #	<10 #	<10 #	<10 #
1,2,3-Trichloropropane	<17 µg/kg	TM116	<17 M	<17 M	<340 M	<17 M	<17 M	<17 M
Bromobenzene	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<10 M	<10 M	<10 M
Propylbenzene	<11 µg/kg	TM116	<11 M	305 M	<220 M	<11 M	<11 M	<11 M
2-Chlorotoluene	<9 µg/kg	TM116	<9 M	<9 M	<180 M	<9 M	<9 M	<9 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116	<8 #	<8 #	<160 #	<8 #	<8 #	<8 #
4-Chlorotoluene	<12 µg/kg	TM116	<12 M	<12 M	<240 M	<12 M	<12 M	<12 M
tert-Butylbenzene	<12 µg/kg	TM116	<12 #	<12 #	<240 #	<12 #	<12 #	<12 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116	<9 #	<9 #	<180 #	<9 #	<9 #	<9 #
sec-Butylbenzene	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<10 M	<10 M	<10 M
4-Isopropyltoluene	<11 µg/kg	TM116	<11 M	<11 M	<220 M	<11 M	<11 M	<11 M
1,3-Dichlorobenzene	<6 µg/kg	TM116	<6 M	<6 M	<120 M	<6 M	<6 M	<6 M
1,4-Dichlorobenzene	<5 µg/kg	TM116	<5 M	<5 M	<100 M	<5 M	<5 M	<5 M
n-Butylbenzene	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<10 M	<10 M	<10 M
1,2-Dichlorobenzene	<12 µg/kg	TM116	<12 M	<12 M	<240 M	<12 M	<12 M	<12 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116	<14 M	<14 M	<280 M	<14 M	<14 M	<14 M
Tert-amyl methyl ether	<15 µg/kg	TM116	<15	<15	<300	<15	<15	<15
1,2,4-Trichlorobenzene	<6 µg/kg	TM116	<6 #	<6 #	<120 #	<6 #	<6 #	<6 #
Hexachlorobutadiene	<12 µg/kg	TM116	<12	<12	<240	<12	<12	<12
Naphthalene	<13 µg/kg	TM116	<13 M	<13 M	<260 M	<13 M	<13 M	<13 M
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<6 M	<6 M	<120 M	<6 M	<6 M	<6 M



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample Ref.	CATP079	CATP079	CATP079	CATP080	CATP082	CATP082
# M S aq diss.filt tot.unfilt * **	ISO17025 accredited. mCERTS accredited. Non-conforming work. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. subcontracted test. % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.70 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198015	1.70 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198016	2.70 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198017	0.80 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197979	0.50 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197999	1.50 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198000
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	110	101	101	92.3	61	101
Toluene-d8**	%	TM116	85.2	96	95.2	82.7	88.2	96.8
4-Bromofluorobenzene**	%	TM116	144	126	128	155	126	120
Dichlorodifluoromethane	<4 µg/kg	TM116	<80 M	<4 M	<4 M	<4 M	<4 M	<4 M
Chloromethane	<7 µg/kg	TM116	<140 #	<7 #	<7 #	<7 #	<7 #	<7 #
Vinyl Chloride	<10 µg/kg	TM116	<200 #	<10 #	<10 #	<10 #	<10 #	<10 #
Bromomethane	<13 µg/kg	TM116	<260 M	<13 M	<13 M	<13 M	<13 M	<13 M
Chloroethane	<14 µg/kg	TM116	<280 M	<14 M	<14 M	<14 M	<14 M	<14 M
Trichlorofluoromethane	<6 µg/kg	TM116	<120 M	<6 M	<6 M	<6 M	<6 M	<6 M
1.1-Dichloroethene	<10 µg/kg	TM116	<200 #	<10 #	<10 #	<10 #	<10 #	<10 #
Carbon Disulphide	<7 µg/kg	TM116	<140 M	<7 M	<7 M	35.2 M	34.9 M	<7 M
Dichloromethane	<10 µg/kg	TM116	<200 #	<10 #	<10 #	<10 #	<10 #	<10 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116	<220 M	<11 M	<11 M	<11 M	<11 M	<11 M
trans-1-2-Dichloroethene	<11 µg/kg	TM116	<220 M	<11 M	<11 M	<11 M	<11 M	<11 M
1.1-Dichloroethane	<8 µg/kg	TM116	<160 M	<8 M	<8 M	<8 M	<8 M	<8 M
cis-1-2-Dichloroethene	<5 µg/kg	TM116	<100 M	<5 M	<5 M	<5 M	<5 M	<5 M
2.2-Dichloropropane	<12 µg/kg	TM116	<240 M	<12 M	<12 M	<12 M	<12 M	<12 M
Bromochloromethane	<14 µg/kg	TM116	<280 M	<14 M	<14 M	<14 M	<14 M	<14 M
Chloroform	<8 µg/kg	TM116	<160 M	<8 M	<8 M	<8 M	<8 M	<8 M
1.1.1-Trichloroethane	<7 µg/kg	TM116	<140 M	<7 M	<7 M	<7 M	<7 M	<7 M
1.1-Dichloropropene	<11 µg/kg	TM116	<220 M	<11 M	<11 M	<11 M	<11 M	<11 M
Carbontetrachloride	<14 µg/kg	TM116	<280 M	<14 M	<14 M	<14 M	<14 M	<14 M
1.2-Dichloroethane	<5 µg/kg	TM116	<100 M	<5 M	<5 M	<5 M	<5 M	<5 M
Benzene	<9 µg/kg	TM116	<180 M	18.7 M	120 M	35.7 M	<9 M	<9 M
Trichloroethene	<9 µg/kg	TM116	<180 M	<9 M	<9 M	<9 M	<9 M	<9 M
1.2-Dichloropropane	<12 µg/kg	TM116	<240 M	<12 M	<12 M	<12 M	<12 M	<12 M
Dibromomethane	<9 µg/kg	TM116	<180 M	<9 M	<9 M	<9 M	<9 M	<9 M
Bromodichloromethane	<7 µg/kg	TM116	<140 M	<7 M	<7 M	<7 M	<7 M	<7 M
cis-1-3-Dichloropropene	<14 µg/kg	TM116	<280 M	<14 M	<14 M	<14 M	<14 M	<14 M
Toluene	<5 µg/kg	TM116	238 M	<5 M	12.7 M	17.4 M	15.9 M	<5 M
trans-1-3-Dichloropropene	<14 µg/kg	TM116	<280	<14	<14	<14	<14	<14
1.1.2-Trichloroethane	<10 µg/kg	TM116	<200 M	<10 M	<10 M	<10 M	<10 M	<10 M
1.3-Dichloropropane	<7 µg/kg	TM116	<140 #	<7 #	<7 #	<7 #	<7 #	<7 #
Tetrachloroethene	<5 µg/kg	TM116	<100 M	<5 M	<5 M	<5 M	<5 M	<5 M
Dibromochloromethane	<13 µg/kg	TM116	<260 M	<13 M	<13 M	<13 M	<13 M	<13 M



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample Ref.	CATP079	CATP079	CATP079	CATP080	CATP082	CATP082
#	ISO17025 accredited.	mCERTS accredited.							
M	Non-conforming work.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.70 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198015	1.70 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198016	2.70 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198017	0.80 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197979	0.50 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197999	1.50 Soil/Solid 30/03/2011 31/03/2011 110331-62 3198000
S	Aqueous / settled sample.								
aq	Dissolved / filtered sample.								
diss.filt	Total / unfiltered sample.								
tot.unfilt	subcontracted test.								
*	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
**									
Component			LOD/Units	Method					
1,2-Dibromoethane			<12 µg/kg	TM116	<240		<12	<12	<12
					M	M	M	M	M
Chlorobenzene			<5 µg/kg	TM116	<100		<5	<5	<5
					M	M	M	M	M
1,1,1,2-Tetrachloroethane			<10 µg/kg	TM116	<200		<10	<10	<10
					M	M	M	M	M
Ethylbenzene			<4 µg/kg	TM116	<80		8.8	12.4	<4
					M	M	M	M	M
p/m-Xylene			<14 µg/kg	TM116	<280		<14	48.9	<14
					#	#	#	#	#
o-Xylene			<10 µg/kg	TM116	<200		<10	<10	<10
					M	M	M	M	M
Styrene			<10 µg/kg	TM116	<200		<10	<10	<10
					M	M	M	M	M
Bromoform			<10 µg/kg	TM116	<200		<10	<10	<10
					M	M	M	M	M
Isopropylbenzene			<5 µg/kg	TM116	<100		<5	<5	<5
					M	M	M	M	M
1,1,2,2-Tetrachloroethane			<10 µg/kg	TM116	<200		<10	<10	<10
					#	#	#	#	#
1,2,3-Trichloropropane			<17 µg/kg	TM116	<340		<17	<17	<17
					M	M	M	M	M
Bromobenzene			<10 µg/kg	TM116	<200		<10	<10	<10
					M	M	M	M	M
Propylbenzene			<11 µg/kg	TM116	<220		<11	<11	<11
					M	M	M	M	M
2-Chlorotoluene			<9 µg/kg	TM116	<180		<9	<9	<9
					M	M	M	M	M
1,3,5-Trimethylbenzene			<8 µg/kg	TM116	<160		21.2	279	<8
					#	#	#	#	#
4-Chlorotoluene			<12 µg/kg	TM116	<240		<12	<12	<12
					M	M	M	M	M
tert-Butylbenzene			<12 µg/kg	TM116	<240		<12	<12	<12
					#	#	#	#	#
1,2,4-Trimethylbenzene			<9 µg/kg	TM116	<180		21.7	49.1	<9
					#	#	#	#	#
sec-Butylbenzene			<10 µg/kg	TM116	<200		<10	<10	<10
					M	M	M	M	M
4-Isopropyltoluene			<11 µg/kg	TM116	<220		<11	<11	<11
					M	M	M	M	M
1,3-Dichlorobenzene			<6 µg/kg	TM116	<120		<6	<6	<6
					M	M	M	M	M
1,4-Dichlorobenzene			<5 µg/kg	TM116	<100		<5	<5	<5
					M	M	M	M	M
n-Butylbenzene			<10 µg/kg	TM116	<200		<10	<10	<10
					M	M	M	M	M
1,2-Dichlorobenzene			<12 µg/kg	TM116	<240		<12	<12	<12
					M	M	M	M	M
1,2-Dibromo-3-chloropropane			<14 µg/kg	TM116	<280		<14	<14	<14
					M	M	M	M	M
Tert-amyl methyl ether			<15 µg/kg	TM116	<300		<15	<15	<15
1,2,4-Trichlorobenzene			<6 µg/kg	TM116	<120		<6	<6	<6
					#	#	#	#	#
Hexachlorobutadiene			<12 µg/kg	TM116	<240		<12	<12	<12
Naphthalene			<13 µg/kg	TM116	<260		<13	<13	<13
					M	M	M	M	M
1,2,3-Trichlorobenzene			<6 µg/kg	TM116	<120		<6	<6	<6
					M	M	M	M	M



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample Ref.		CATP100	CATP100	CATP101	CATP101	CATP102	CATP102
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50	1.20	0.50	1.00	0.90	1.60		
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
S	Non-conforming work.		30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011		
aq	Aqueous / settled sample.		31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011		
diss.filt	Dissolved / filtered sample.		110331-62	110331-62	110331-62	110331-62	110331-62	110331-62		
tot.unfilt	Total / unfiltered sample.		3197973	3197974	3197977	3197978	3197968	3197970		
**	subcontracted test.									
* % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.										
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM116	93.4	106	104	101	92.5	86.6		
Toluene-d8**	%	TM116	83.7	73.2	101	85.5	93.6	79.9		
4-Bromofluorobenzene**	%	TM116	153	156	116	165	146	161		
Dichlorodifluoromethane	<4 µg/kg	TM116	<4	<4	<80	<8	<4	<4		
Chloromethane	<7 µg/kg	TM116	<7	<7	<140	<14	<7	<7		
Vinyl Chloride	<10 µg/kg	TM116	<10	<10	<200	<20	<10	<10		
Bromomethane	<13 µg/kg	TM116	<13	<13	<260	<26	<13	<13		
Chloroethane	<14 µg/kg	TM116	<14	<14	<280	<28	<14	<14		
Trichlorofluoromethane	<6 µg/kg	TM116	<6	<6	<120	<12	<6	<6		
1,1-Dichloroethene	<10 µg/kg	TM116	<10	<10	<200	<20	<10	<10		
Carbon Disulphide	<7 µg/kg	TM116	<7	17.2	<140	48.1	22.2	43.6		
Dichloromethane	<10 µg/kg	TM116	<10	<10	<200	<20	<10	<10		
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116	<11	<11	<220	<22	<11	<11		
trans-1-2-Dichloroethene	<11 µg/kg	TM116	<11	<11	<220	<22	<11	<11		
1,1-Dichloroethane	<8 µg/kg	TM116	<8	<8	<160	<16	<8	<8		
cis-1-2-Dichloroethene	<5 µg/kg	TM116	<5	<5	<100	17.8	28.4	12.3		
2,2-Dichloropropane	<12 µg/kg	TM116	<12	<12	<240	<24	<12	<12		
Bromochloromethane	<14 µg/kg	TM116	<14	<14	<280	<28	<14	<14		
Chloroform	<8 µg/kg	TM116	<8	<8	<160	<16	<8	<8		
1,1,1-Trichloroethane	<7 µg/kg	TM116	<7	<7	<140	<14	<7	<7		
1,1-Dichloropropene	<11 µg/kg	TM116	<11	<11	<220	<22	<11	<11		
Carbontetrachloride	<14 µg/kg	TM116	<14	<14	<280	<28	<14	<14		
1,2-Dichloroethane	<5 µg/kg	TM116	<5	<5	<100	<10	<5	<5		
Benzene	<9 µg/kg	TM116	14.1	<9	<180	<18	<9	<9		
Trichloroethene	<9 µg/kg	TM116	42.1	<9	<180	44	74.9	97.8		
1,2-Dichloropropane	<12 µg/kg	TM116	<12	<12	<240	<24	<12	<12		
Dibromomethane	<9 µg/kg	TM116	<9	<9	<180	<18	<9	<9		
Bromodichloromethane	<7 µg/kg	TM116	<7	<7	<140	<14	<7	<7		
cis-1-3-Dichloropropene	<14 µg/kg	TM116	<14	<14	<280	<28	<14	<14		
Toluene	<5 µg/kg	TM116	10.6	<5	<100	<10	6.4	7		
trans-1-3-Dichloropropene	<14 µg/kg	TM116	<14	<14	<280	<28	<14	<14		
1,1,2-Trichloroethane	<10 µg/kg	TM116	<10	<10	<200	<20	<10	<10		
1,3-Dichloropropane	<7 µg/kg	TM116	<7	<7	<140	<14	<7	<7		
Tetrachloroethene	<5 µg/kg	TM116	<5	<5	<100	<10	<5	<5		
Dibromochloromethane	<13 µg/kg	TM116	<13	<13	<260	<26	<13	<13		



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample Ref.	CATP100	CATP100	CATP101	CATP101	CATP102	CATP102
# M S aq diss.filt tot.unfilt * **	ISO17025 accredited. mCERTS accredited. Non-conforming work. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. subcontracted test. % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
		Depth (m)	0.50 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197973	1.20 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197974	0.50 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197977	1.00 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197978	0.90 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197968	1.60 Soil/Solid 30/03/2011 31/03/2011 110331-62 3197970
Component	LOD/Units	Method						
1,2-Dibromoethane	<12 µg/kg	TM116	<12 M	<12 M	<240 M	<24 M	<12 M	<12 M
Chlorobenzene	<5 µg/kg	TM116	<5 M	<5 M	<100 M	<10 M	<5 M	<5 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<20 M	<10 M	<10 M
Ethylbenzene	<4 µg/kg	TM116	18.1 M	<4 M	<80 M	13.4 M	8.83 M	12 M
p/m-Xylene	<14 µg/kg	TM116	20.6 #	<14 #	<280 #	<28 #	<14 #	<14 #
o-Xylene	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<20 M	<10 M	<10 M
Styrene	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<20 M	<10 M	<10 M
Bromoform	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<20 M	<10 M	<10 M
Isopropylbenzene	<5 µg/kg	TM116	<5 M	156 M	<100 M	<10 M	<5 M	14.4 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116	<10 #	<10 #	<200 #	<20 #	<10 #	<10 #
1,2,3-Trichloropropane	<17 µg/kg	TM116	<17 M	<17 M	<340 M	<34 M	<17 M	<17 M
Bromobenzene	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<20 M	<10 M	<10 M
Propylbenzene	<11 µg/kg	TM116	<11 M	283 M	<220 M	<22 M	<11 M	23.4 M
2-Chlorotoluene	<9 µg/kg	TM116	<9 M	<9 M	<180 M	<18 M	<9 M	<9 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116	<8 #	<8 #	<160 #	<16 #	<8 #	17.5 #
4-Chlorotoluene	<12 µg/kg	TM116	<12 M	<12 M	<240 M	<24 M	<12 M	<12 M
tert-Butylbenzene	<12 µg/kg	TM116	<12 #	<12 #	<240 #	<24 #	<12 #	<12 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116	88 #	<9 #	<180 #	<18 #	<9 #	64.7 #
sec-Butylbenzene	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<20 M	<10 M	<10 M
4-Isopropyltoluene	<11 µg/kg	TM116	<11 M	<11 M	<220 M	<22 M	<11 M	<11 M
1,3-Dichlorobenzene	<6 µg/kg	TM116	<6 M	<6 M	<120 M	<12 M	<6 M	<6 M
1,4-Dichlorobenzene	<5 µg/kg	TM116	<5 M	<5 M	<100 M	<10 M	<5 M	<5 M
n-Butylbenzene	<10 µg/kg	TM116	<10 M	<10 M	<200 M	<20 M	<10 M	<10 M
1,2-Dichlorobenzene	<12 µg/kg	TM116	<12 M	<12 M	<240 M	<24 M	<12 M	<12 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116	<14 M	<14 M	<280 M	<28 M	<14 M	<14 M
Tert-amyl methyl ether	<15 µg/kg	TM116	<15	<15	<300	<30	<15	<15
1,2,4-Trichlorobenzene	<6 µg/kg	TM116	<6 #	<6 #	<120 #	<12 #	<6 #	<6 #
Hexachlorobutadiene	<12 µg/kg	TM116	<12	<12	<240	<24	<12	<12
Naphthalene	<13 µg/kg	TM116	<13 M	<13 M	<260 M	<26 M	<13 M	<13 M
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<6 M	<6 M	<120 M	<12 M	<6 M	<6 M



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample Ref.	CATP103		CATP103		CATP104		CATP104		CATP104		
#	ISO17025 accredited.		0.80	1.60	0.30	1.40	2.30						
M	mCERTS accredited.	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid							
S	Non-conforming work.	30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011							
aq	Aqueous / settled sample.	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011							
diss.filt	Dissolved / filtered sample.	110331-62	110331-62	110331-62	110331-62	110331-62							
tot.unfilt	Total / unfiltered sample.	3197964	3197965	3197960	3197961	3197962							
**	subcontracted test.												
	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.												
Component	LOD/Units	Method											
Dibromofluoromethane**	%	TM116	89.9	83.6	102	103	106						
Toluene-d8**	%	TM116	92.7	77.4	95.4	94.5	92.3						
4-Bromofluorobenzene**	%	TM116	146	150	120	127	101						
Dichlorodifluoromethane	<4 µg/kg	TM116	<4	<4	<80	<80	<8						
Chloromethane	<7 µg/kg	TM116	<7	<7	<140	<140	<14						
Vinyl Chloride	<10 µg/kg	TM116	<10	<10	<200	<200	<20						
Bromomethane	<13 µg/kg	TM116	<13	<13	<260	<260	<26						
Chloroethane	<14 µg/kg	TM116	<14	<14	<280	<280	<28						
Trichlorofluoromethane	<6 µg/kg	TM116	<6	<6	<120	<120	<12						
1,1-Dichloroethene	<10 µg/kg	TM116	<10	<10	<200	<200	<20						
Carbon Disulphide	<7 µg/kg	TM116	37	48	<140	<140	<14						
Dichloromethane	<10 µg/kg	TM116	<10	<10	<200	<200	<20						
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116	<11	<11	<220	<220	<22						
trans-1-2-Dichloroethene	<11 µg/kg	TM116	<11	<11	<220	<220	<22						
1,1-Dichloroethane	<8 µg/kg	TM116	<8	<8	<160	<160	<16						
cis-1-2-Dichloroethene	<5 µg/kg	TM116	47	<5	<100	<100	<10						
2,2-Dichloropropane	<12 µg/kg	TM116	<12	<12	<240	<240	<24						
Bromochloromethane	<14 µg/kg	TM116	<14	<14	<280	<280	<28						
Chloroform	<8 µg/kg	TM116	<8	<8	<160	<160	<16						
1,1,1-Trichloroethane	<7 µg/kg	TM116	<7	<7	<140	<140	<14						
1,1-Dichloropropene	<11 µg/kg	TM116	<11	<11	<220	<220	<22						
Carbontetrachloride	<14 µg/kg	TM116	<14	<14	<280	<280	<28						
1,2-Dichloroethane	<5 µg/kg	TM116	<5	<5	<100	<100	<10						
Benzene	<9 µg/kg	TM116	11.2	47.6	<180	<180	<18						
Trichloroethene	<9 µg/kg	TM116	137	<9	<180	<180	<18						
1,2-Dichloropropane	<12 µg/kg	TM116	<12	<12	<240	<240	<24						
Dibromomethane	<9 µg/kg	TM116	<9	<9	<180	<180	<18						
Bromodichloromethane	<7 µg/kg	TM116	<7	<7	<140	<140	<14						
cis-1-3-Dichloropropene	<14 µg/kg	TM116	<14	<14	<280	<280	<28						
Toluene	<5 µg/kg	TM116	7.05	18.1	186	<100	<10						
trans-1-3-Dichloropropene	<14 µg/kg	TM116	<14	<14	<280	<280	<28						
1,1,2-Trichloroethane	<10 µg/kg	TM116	<10	<10	<200	<200	<20						
1,3-Dichloropropane	<7 µg/kg	TM116	<7	<7	<140	<140	<14						
Tetrachloroethene	<5 µg/kg	TM116	<5	<5	<100	<100	<10						
Dibromochloromethane	<13 µg/kg	TM116	<13	<13	<260	<260	<26						



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample Ref.	CATP103	CATP103	CATP104	CATP104	CATP104	
#	ISO17025 accredited.								
M	mCERTS accredited.								
S	Non-conforming work.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
			Depth (m)	0.80	1.60	0.30	1.40	2.30	
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
			Date Sampled	30/03/2011	30/03/2011	30/03/2011	30/03/2011	30/03/2011	
			Date Received	31/03/2011	31/03/2011	31/03/2011	31/03/2011	31/03/2011	
			SDG Ref	110331-62	110331-62	110331-62	110331-62	110331-62	
			Lab Sample No.(s)	3197964	3197965	3197960	3197961	3197962	
			AGS Reference						
Component	LOD/Units	Method							
1,2-Dibromoethane	<12 µg/kg	TM116		<12	<12	<240	<240	<24	
				M	M	M	M	M	
Chlorobenzene	<5 µg/kg	TM116		<5	<5	<100	<100	<10	
				M	M	M	M	M	
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<10	<10	<200	307	<20	
				M	M	M	M	M	
Ethylbenzene	<4 µg/kg	TM116		8.04	<4	<80	<80	<8	
				M	M	M	M	M	
p/m-Xylene	<14 µg/kg	TM116		<14	<14	<280	<280	<28	
				#	#	#	#	#	
o-Xylene	<10 µg/kg	TM116		<10	<10	<200	<200	<20	
				M	M	M	M	M	
Styrene	<10 µg/kg	TM116		<10	<10	<200	<200	<20	
				M	M	M	M	M	
Bromoform	<10 µg/kg	TM116		<10	<10	<200	<200	<20	
				M	M	M	M	M	
Isopropylbenzene	<5 µg/kg	TM116		<5	<5	<100	354	378	
				M	M	M	M	M	
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<10	<10	<200	<200	<20	
				#	#	#	#	#	
1,2,3-Trichloropropane	<17 µg/kg	TM116		<17	<17	<340	<340	<34	
				M	M	M	M	M	
Bromobenzene	<10 µg/kg	TM116		<10	<10	<200	<200	<20	
				M	M	M	M	M	
Propylbenzene	<11 µg/kg	TM116		<11	<11	<220	722	824	
				M	M	M	M	M	
2-Chlorotoluene	<9 µg/kg	TM116		<9	<9	<180	<180	<18	
				M	M	M	M	M	
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<8	<8	<160	<160	<16	
				#	#	#	#	#	
4-Chlorotoluene	<12 µg/kg	TM116		<12	<12	<240	<240	<24	
				M	M	M	M	M	
tert-Butylbenzene	<12 µg/kg	TM116		<12	<12	<240	<240	<24	
				#	#	#	#	#	
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<9	<9	<180	651	<18	
				#	#	#	#	#	
sec-Butylbenzene	<10 µg/kg	TM116		<10	<10	<200	<200	<20	
				M	M	M	M	M	
4-Isopropyltoluene	<11 µg/kg	TM116		<11	<11	<220	<220	<22	
				M	M	M	M	M	
1,3-Dichlorobenzene	<6 µg/kg	TM116		<6	<6	<120	<120	<12	
				M	M	M	M	M	
1,4-Dichlorobenzene	<5 µg/kg	TM116		<5	<5	<100	<100	<10	
				M	M	M	M	M	
n-Butylbenzene	<10 µg/kg	TM116		<10	<10	<200	<200	<20	
				M	M	M	M	M	
1,2-Dichlorobenzene	<12 µg/kg	TM116		<12	<12	<240	<240	<24	
				M	M	M	M	M	
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<14	<14	<280	<280	<28	
				M	M	M	M	M	
Tert-amyl methyl ether	<15 µg/kg	TM116		<15	<15	<300	<300	<30	
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<6	<6	<120	<120	<12	
				#	#	#	#	#	
Hexachlorobutadiene	<12 µg/kg	TM116		<12	<12	<240	<240	<24	
Naphthalene	<13 µg/kg	TM116		<13	<13	<260	<260	<26	
				M	M	M	M	M	
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<6	<6	<120	<120	<12	
				M	M	M	M	M	



SDG:	110331-62	Location:	Coed Darcy Urban Village	Order Number:	
Job:	H_ATKINS_LDC-109	Customer:	Atkins Global Ltd	Report Number:	125159
Client Reference:	Commercial Area	Attention:	Selina Bamforth	Superseded Report:	

Asbestos Identification

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CATP060 NS Z 0.60 SOLID 29/03/2011 00:00:00 31/03/2011 13:22:05 110331-62 3,198,022 TM048	11/4/11	Tomasz Pawlikowski	Typical of asbestos cement, two separate pieces - one containing both types, other containing just Chrysotile	Not Detected	Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected



SDG:	110331-62	Location:	Coed Darcy Urban Village	Order Number:	
Job:	H_ATKINS_LDC-109	Customer:	Atkins Global Ltd	Report Number:	125159
Client Reference:	Commercial Area	Attention:	Selina Bamforth	Superseded Report:	

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10-7							
NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM001	In - house Method	Determination of asbestos containing material by screening on solids		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		
TM224	US EPA Method 6010B	Determination of Alkaline Metals by iCap 6500 Duo ICP-OES		
TM243				

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	3198022	3197992	3197993	3197994	3197996	3197988	3197989	3197980	3197986	3198010
AGS Ref.	CATP060	CATP068	CATP068	CATP069	CATP069	CATP072	CATP072	CATP073	CATP073	CATP074
Depth										
Type	0.60	0.60	1.50	0.50	1.50	0.40	1.20	0.40	1.50	0.90
Alkali Metals by iCap-OES (Soil)		08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011
Anions by Kone (soil)		11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011
Asbestos Containing Material Screen	06-Apr-2011	06-Apr-2011		06-Apr-2011		06-Apr-2011	06-Apr-2011	06-Apr-2011		06-Apr-2011
Asbestos Identification	11-Apr-2011									
EPH CWG (Aliphatic) GC (S)		11-Apr-2011	08-Apr-2011	11-Apr-2011	11-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011
EPH CWG (Aromatic) GC (S)		11-Apr-2011	08-Apr-2011	11-Apr-2011	11-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011
GRO by GC-FID (S)		09-Apr-2011	11-Apr-2011	09-Apr-2011	11-Apr-2011	09-Apr-2011	11-Apr-2011	11-Apr-2011	09-Apr-2011	09-Apr-2011
Metals by iCap-OES (Soil)		08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011
NO3, NO2 and TON by KONE (s)		12-Apr-2011	12-Apr-2011	12-Apr-2011	12-Apr-2011	12-Apr-2011	08-Apr-2011	12-Apr-2011	08-Apr-2011	08-Apr-2011
pH		07-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	07-Apr-2011	07-Apr-2011	07-Apr-2011	07-Apr-2011	06-Apr-2011
Sample description		06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011
Semi Volatile Organic Compounds		11-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011
TPH CWG GC (S)		11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	09-Apr-2011	11-Apr-2011	11-Apr-2011	09-Apr-2011	09-Apr-2011
VOC MS (S)		08-Apr-2011	08-Apr-2011	11-Apr-2011	11-Apr-2011	08-Apr-2011	11-Apr-2011	08-Apr-2011	08-Apr-2011	11-Apr-2011

Lab Sample No(s) Customer Sample Ref.	3198011	3198001	3198003	3198005	3198006	3198018	3198019	3198012	3198014	3198015
AGS Ref.	CATP074	CATP075	CATP075	CATP076	CATP076	CATP077	CATP077	CATP078	CATP078	CATP079
Depth										
Type	1.50	0.70	1.30	0.70	1.50	0.80	1.40	1.10	2.10	0.70
Alkali Metals by iCap-OES (Soil)	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011
Anions by Kone (soil)	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011
Asbestos Containing Material Screen		05-Apr-2011		05-Apr-2011		06-Apr-2011				06-Apr-2011
EPH CWG (Aliphatic) GC (S)	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	11-Apr-2011
EPH CWG (Aromatic) GC (S)	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	11-Apr-2011
GRO by GC-FID (S)	11-Apr-2011	09-Apr-2011	11-Apr-2011	09-Apr-2011	09-Apr-2011	09-Apr-2011	09-Apr-2011	11-Apr-2011	09-Apr-2011	09-Apr-2011
Metals by iCap-OES (Soil)	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011
NO3, NO2 and TON by KONE (s)	08-Apr-2011	12-Apr-2011	12-Apr-2011	12-Apr-2011	12-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011
pH	07-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	07-Apr-2011	07-Apr-2011
Sample description	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011
Semi Volatile Organic Compounds	11-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	11-Apr-2011	08-Apr-2011	08-Apr-2011
TPH CWG GC (S)	11-Apr-2011	09-Apr-2011	11-Apr-2011	09-Apr-2011	09-Apr-2011	09-Apr-2011	09-Apr-2011	11-Apr-2011	09-Apr-2011	11-Apr-2011
VOC MS (S)	11-Apr-2011	11-Apr-2011	11-Apr-2011	08-Apr-2011	08-Apr-2011	11-Apr-2011	08-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011

Lab Sample No(s) Customer Sample Ref.	3198016	3198017	3197979	3197999	3198000	3197973	3197974	3197977	3197978	3197968
AGS Ref.	CATP079	CATP079	CATP080	CATP082	CATP082	CATP100	CATP100	CATP101	CATP101	CATP102
Depth										
Type	1.70	2.70	0.80	0.50	1.50	0.50	1.20	0.50	1.00	0.90
Alkali Metals by iCap-OES (Soil)	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011
Anions by Kone (soil)	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011
Asbestos Containing Material Screen			06-Apr-2011	05-Apr-2011		06-Apr-2011		06-Apr-2011	06-Apr-2011	06-Apr-2011
EPH CWG (Aliphatic) GC (S)	11-Apr-2011	08-Apr-2011	11-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	11-Apr-2011	12-Apr-2011	11-Apr-2011	08-Apr-2011
EPH CWG (Aromatic) GC (S)	11-Apr-2011	08-Apr-2011	11-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	11-Apr-2011	12-Apr-2011	11-Apr-2011	08-Apr-2011
GRO by GC-FID (S)	09-Apr-2011	09-Apr-2011	09-Apr-2011	09-Apr-2011	09-Apr-2011	09-Apr-2011	11-Apr-2011	09-Apr-2011	09-Apr-2011	11-Apr-2011
Metals by iCap-OES (Soil)	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011
NO3, NO2 and TON by KONE (s)	08-Apr-2011	08-Apr-2011	12-Apr-2011	12-Apr-2011	08-Apr-2011	12-Apr-2011	12-Apr-2011	12-Apr-2011	12-Apr-2011	12-Apr-2011
PCBs by GCMS				11-Apr-2011	11-Apr-2011					
pH	07-Apr-2011	07-Apr-2011	07-Apr-2011	06-Apr-2011	07-Apr-2011	07-Apr-2011	07-Apr-2011	07-Apr-2011	07-Apr-2011	07-Apr-2011
Sample description	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011
Semi Volatile Organic Compounds	11-Apr-2011	11-Apr-2011	11-Apr-2011	08-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011
TPH CWG GC (S)	11-Apr-2011	09-Apr-2011	11-Apr-2011	09-Apr-2011	09-Apr-2011	09-Apr-2011	11-Apr-2011	12-Apr-2011	11-Apr-2011	11-Apr-2011
VOC MS (S)	11-Apr-2011	11-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	12-Apr-2011	12-Apr-2011	08-Apr-2011



CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	3197970	3197964	3197965	3197960	3197961	3197962
	CATP102	CATP103	CATP103	CATP104	CATP104	CATP104
	1.60	0.80	1.60	0.30	1.40	2.30
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Alkali Metals by iCap-OES (Soil)	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011
Anions by Kone (soil)	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011
Asbestos Containing Material Screen		06-Apr-2011		06-Apr-2011		
EPH CWG (Aliphatic) GC (S)	11-Apr-2011	11-Apr-2011	11-Apr-2011	08-Apr-2011	11-Apr-2011	11-Apr-2011
EPH CWG (Aromatic) GC (S)	11-Apr-2011	11-Apr-2011	11-Apr-2011	08-Apr-2011	11-Apr-2011	11-Apr-2011
GRO by GC-FID (S)	09-Apr-2011	10-Apr-2011	09-Apr-2011	09-Apr-2011	09-Apr-2011	09-Apr-2011
Metals by iCap-OES (Soil)	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011
NO3, NO2 and TON by KONE (s)	12-Apr-2011	12-Apr-2011	12-Apr-2011	12-Apr-2011	08-Apr-2011	12-Apr-2011
pH	07-Apr-2011	08-Apr-2011	08-Apr-2011	07-Apr-2011	07-Apr-2011	08-Apr-2011
Sample description	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011	06-Apr-2011
Semi Volatile Organic Compounds	11-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011	08-Apr-2011
TPH CWG GC (S)	11-Apr-2011	11-Apr-2011	11-Apr-2011	09-Apr-2011	11-Apr-2011	11-Apr-2011
VOC MS (S)	08-Apr-2011	08-Apr-2011	08-Apr-2011	11-Apr-2011	11-Apr-2011	11-Apr-2011



SDG: 110331-62
Job: H_ATKINS_LDC-109
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Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

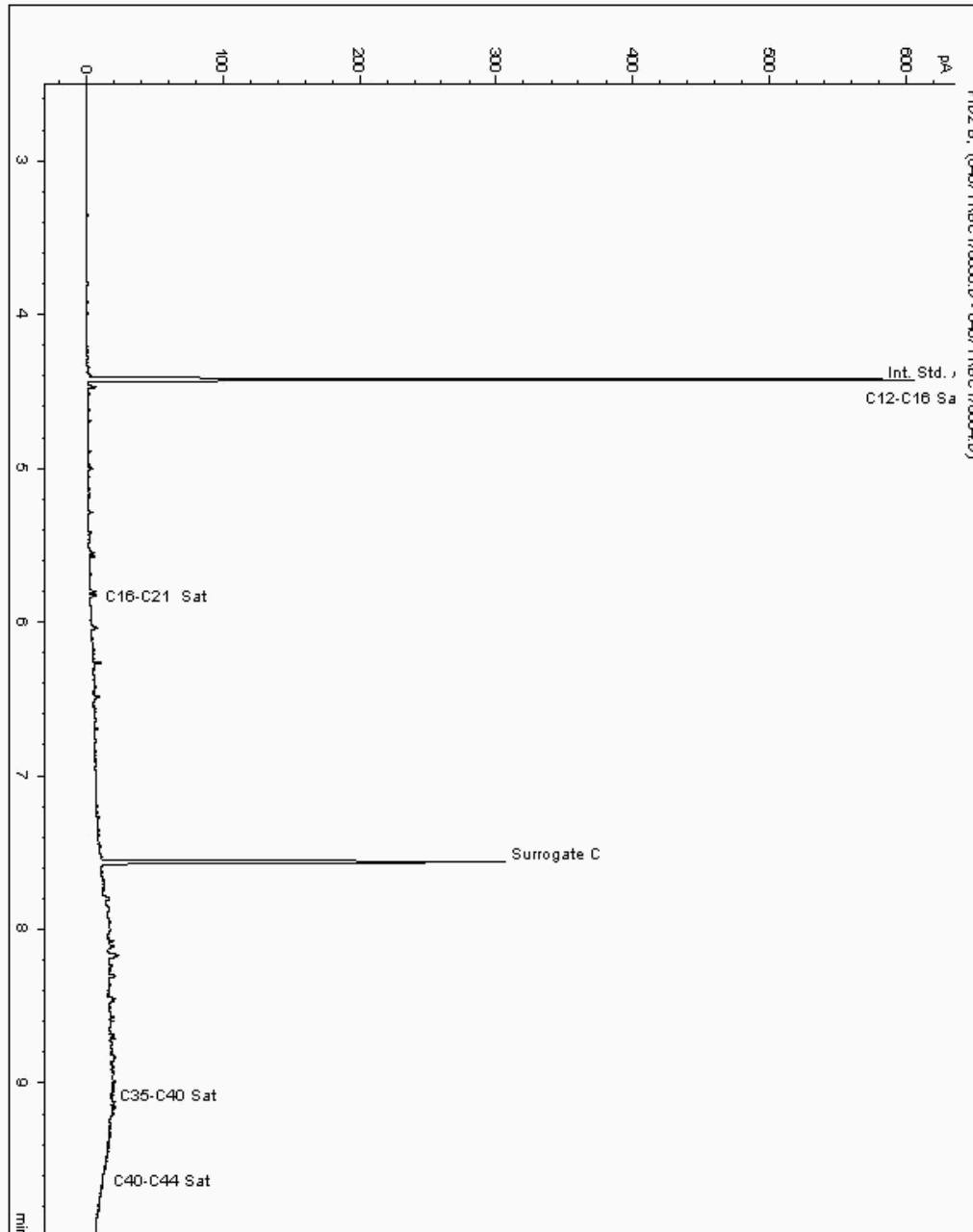
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3243366
Sample ID : CATP076

Depth : 0.70

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272795-3243366
Date Acquired : 08/04/11 07:58:36 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

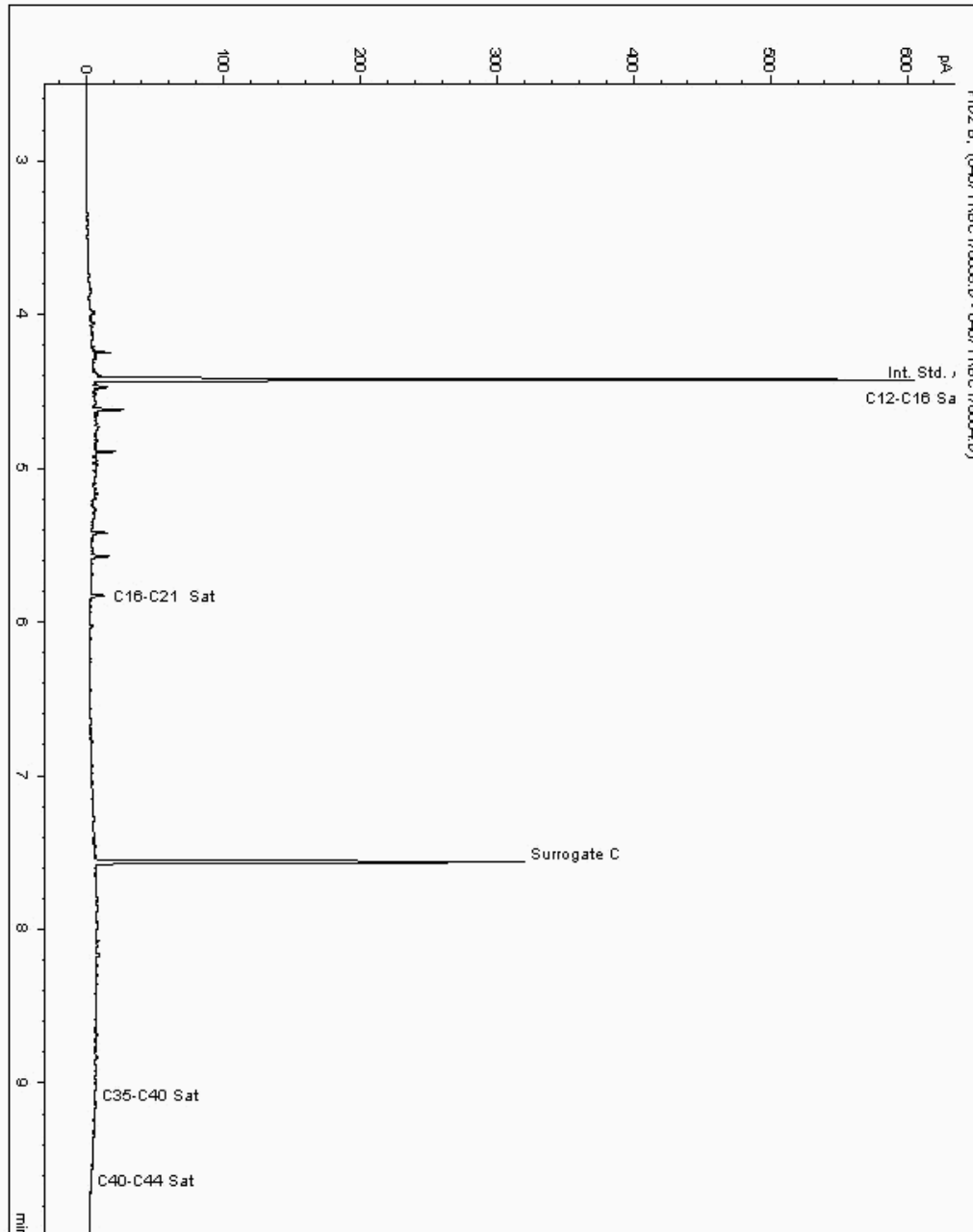
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3243382
Sample ID : CATP075

Depth : 1.30

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272779-3243382
Date Acquired : 08/04/11 08:28:37 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

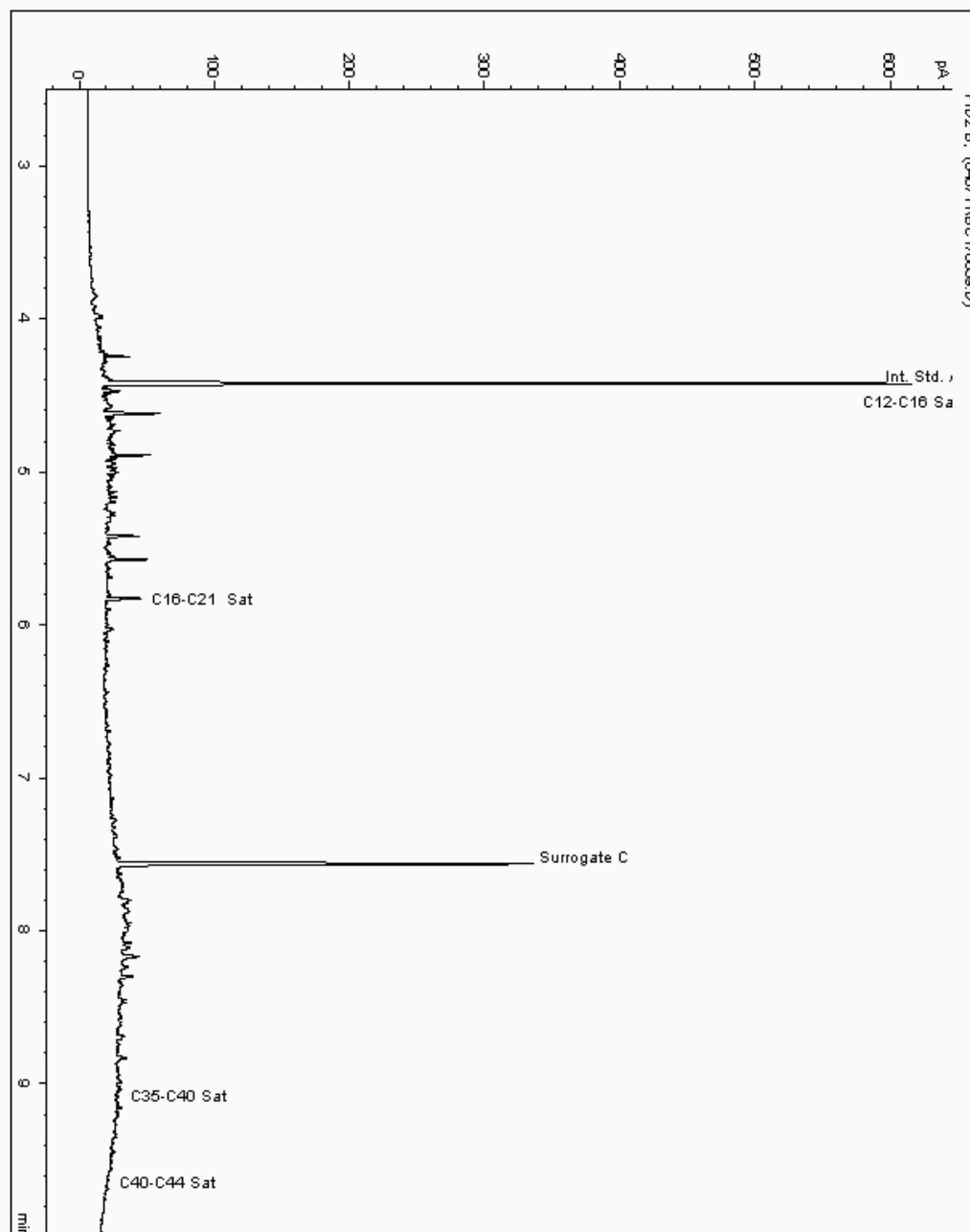
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3243401
Sample ID : CATP075

Depth : 0.70

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272759-3243401
Date Acquired : 08/04/11 08:48:19 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
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Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

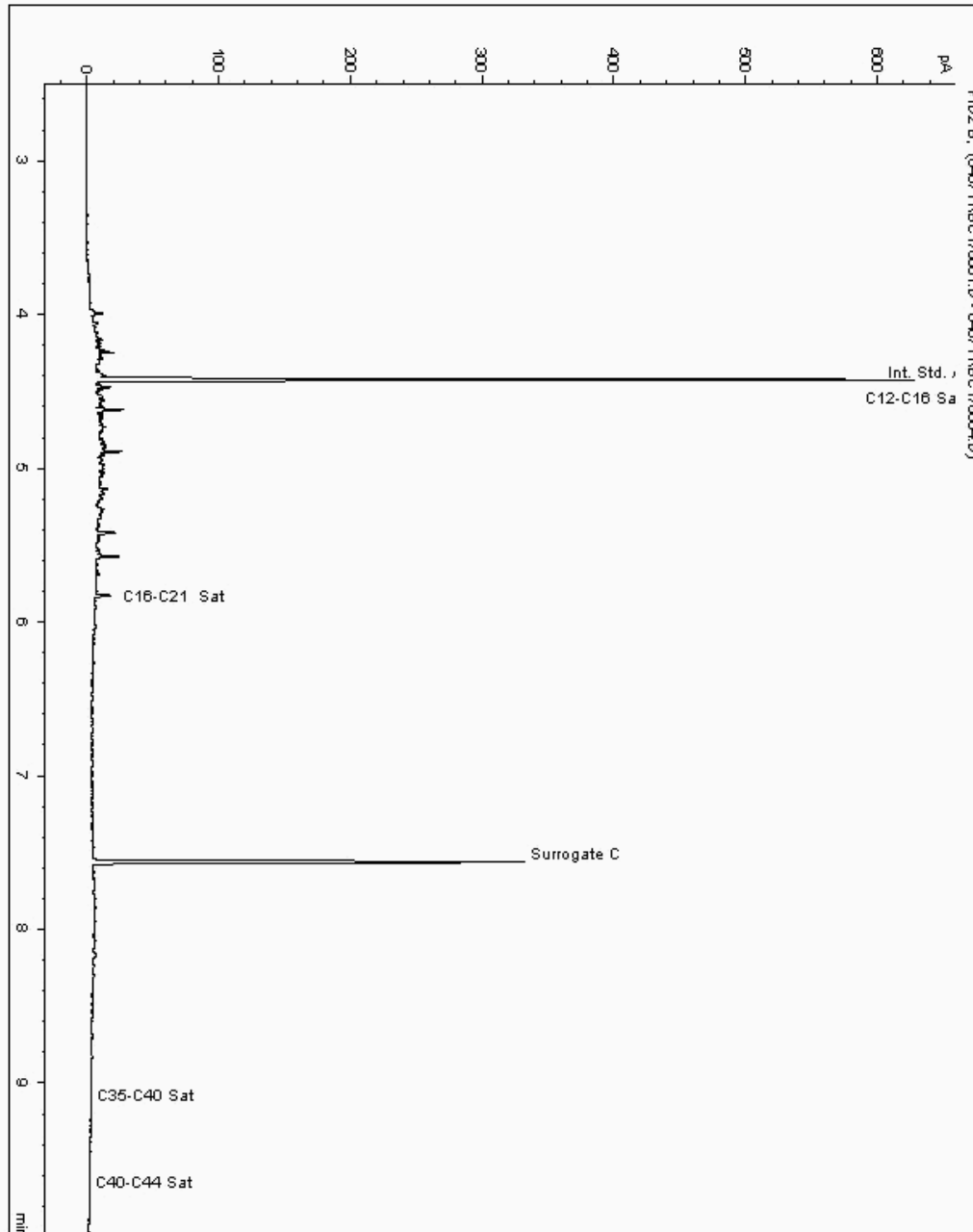
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3243423
Sample ID : CATP076

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272812-3243423
Date Acquired : 08/04/11 09:18:27 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

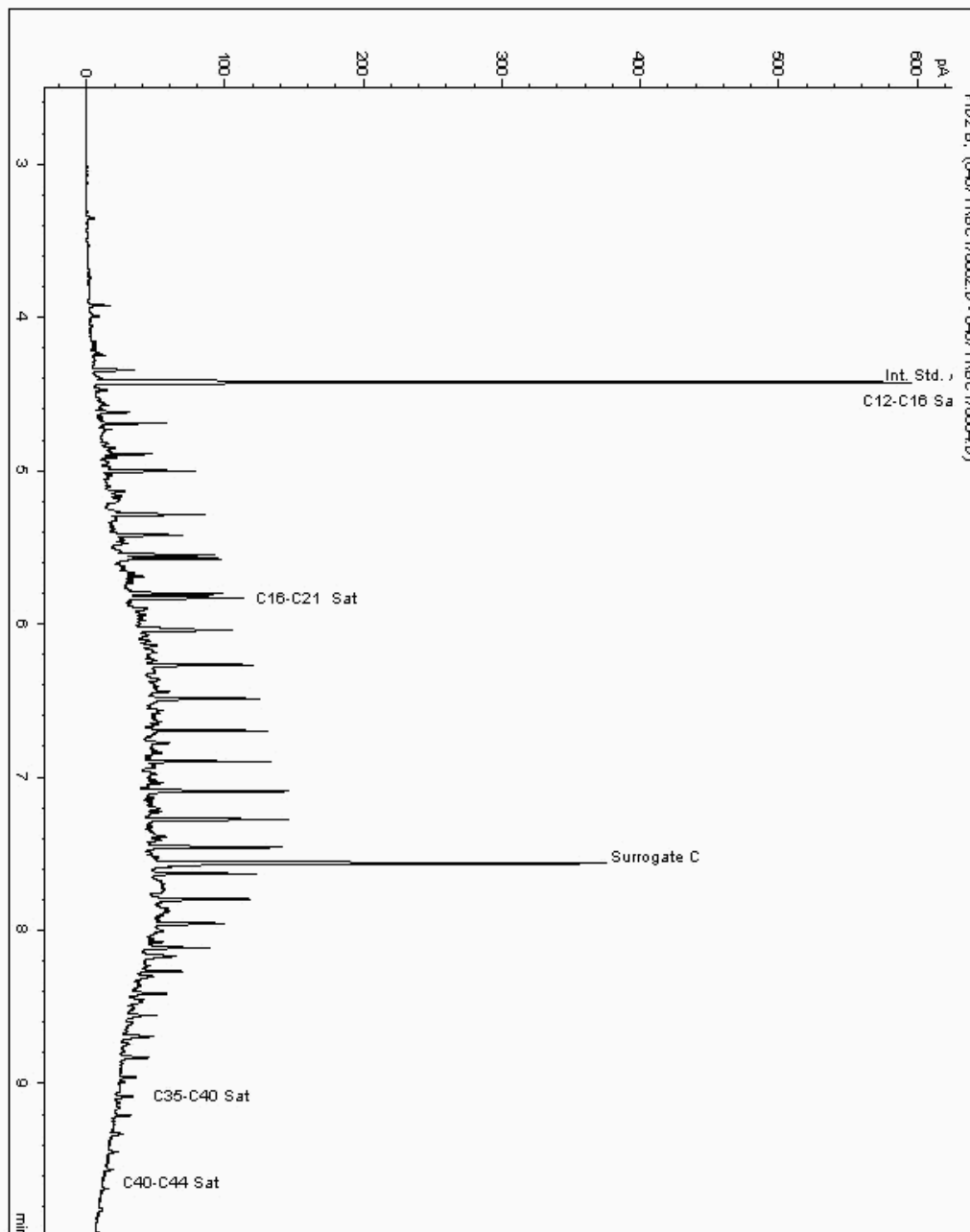
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3243455
Sample ID : CATP082

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272698-3243455
Date Acquired : 08/04/11 09:38:17 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
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Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

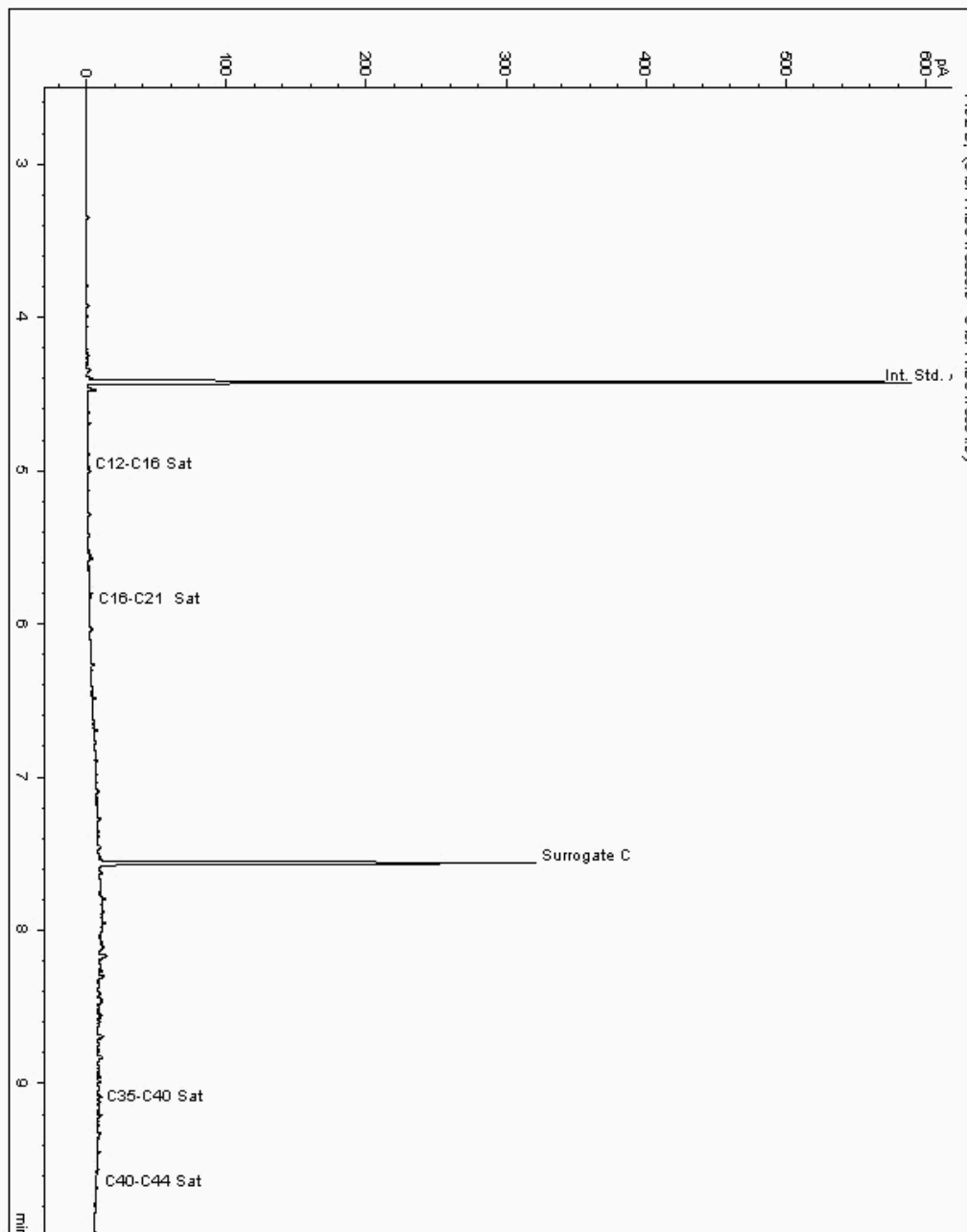
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3243645
Sample ID : CATP104

Depth : 0.30

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3271602-3243645
Date Acquired : 08/04/11 09:57:54 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

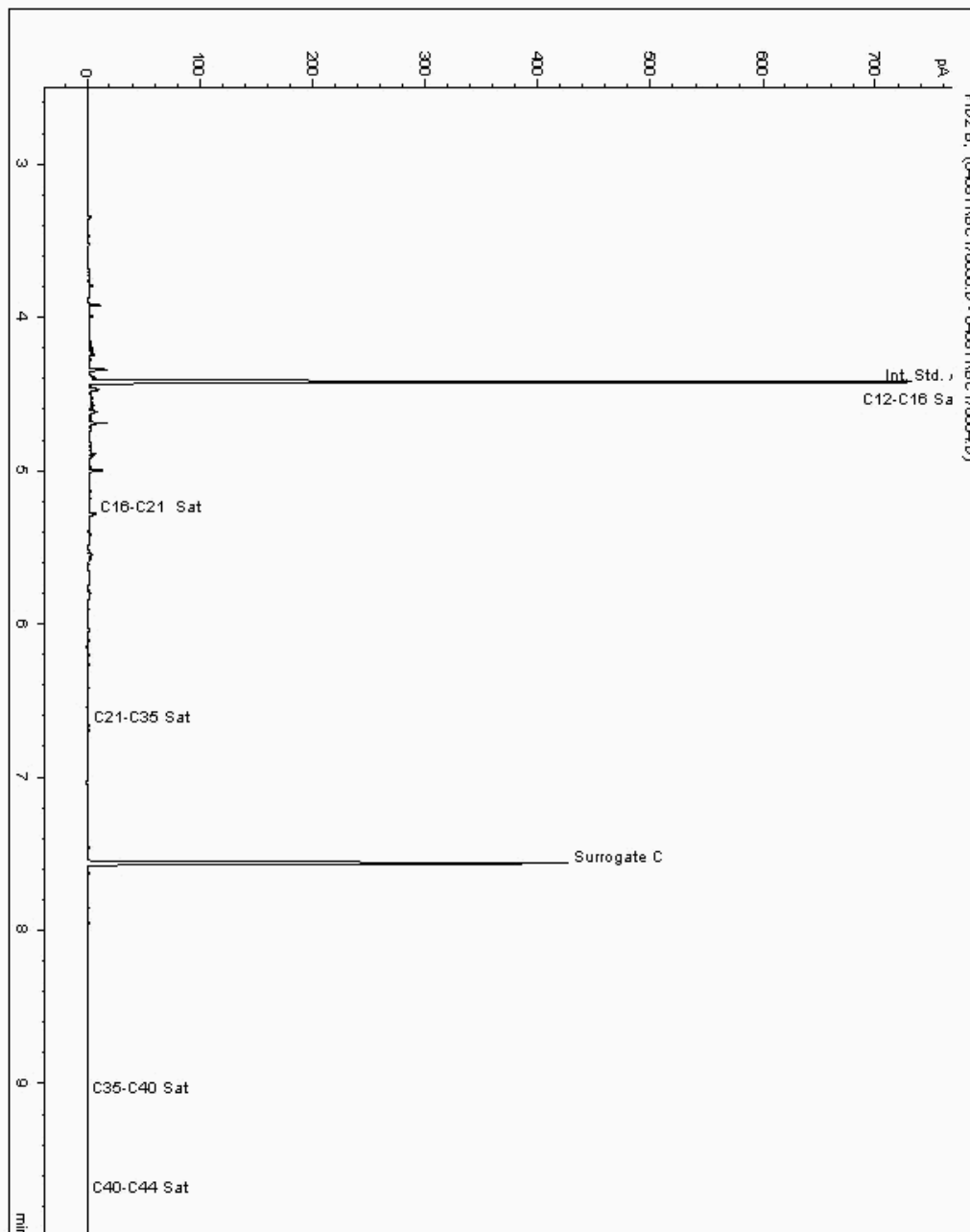
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3243662
Sample ID : CATP069

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272650-3243662
Date Acquired : 11/04/11 09:04:46 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

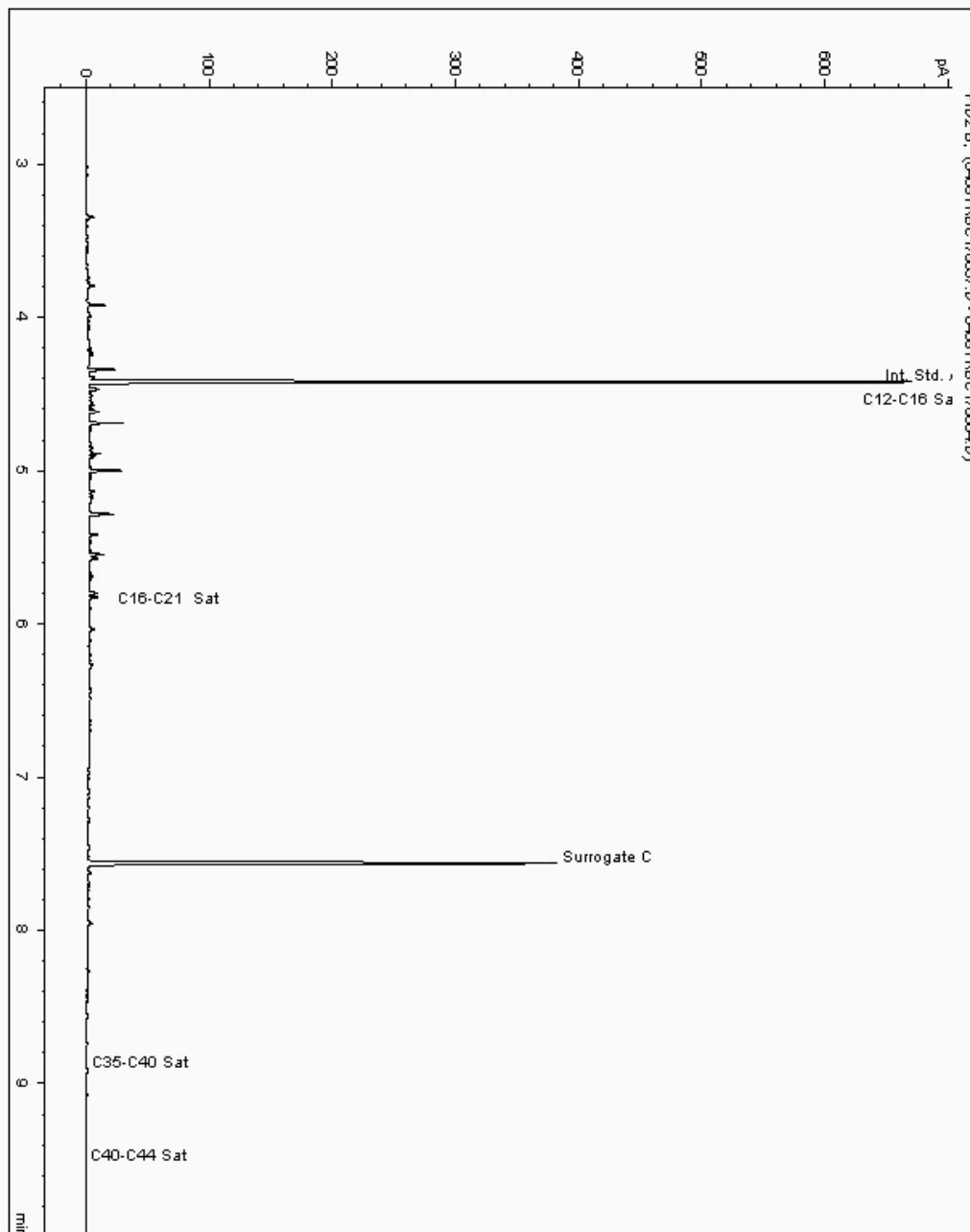
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3243906
Sample ID : CATP069

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272603-3243906
Date Acquired : 11/04/11 09:24:43 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

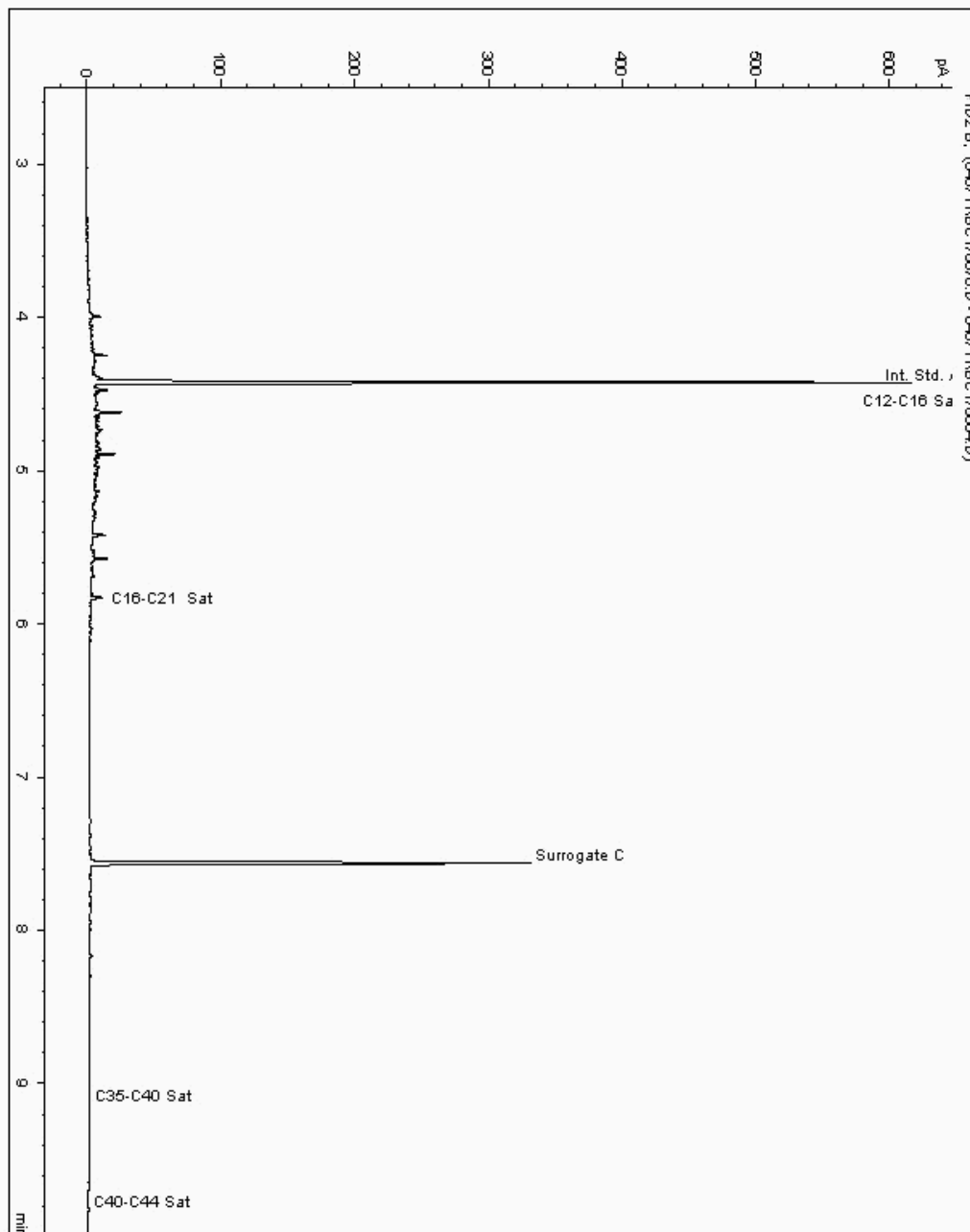
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3243952
Sample ID : CATP068

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272579-3243952
Date Acquired : 08/04/11 11:37:47 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

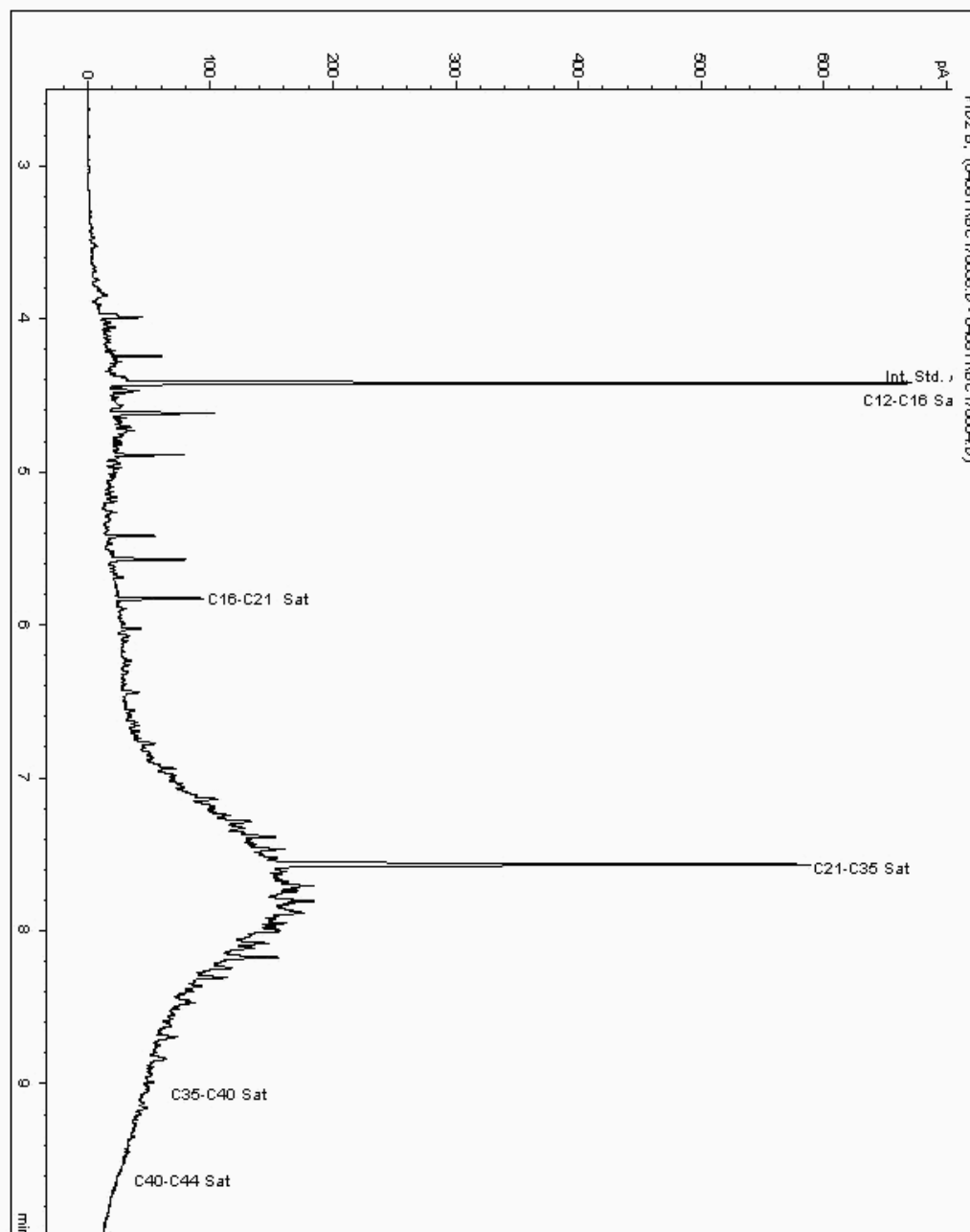
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244011
Sample ID : CATP104

Depth : 2.30

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3271703-3244011
Date Acquired : 11/04/11 09:44:35 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.960





SDG: 110331-62
Job: H_ATKINS_LDC-109
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Location: Coed Darcy Urban Village
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Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

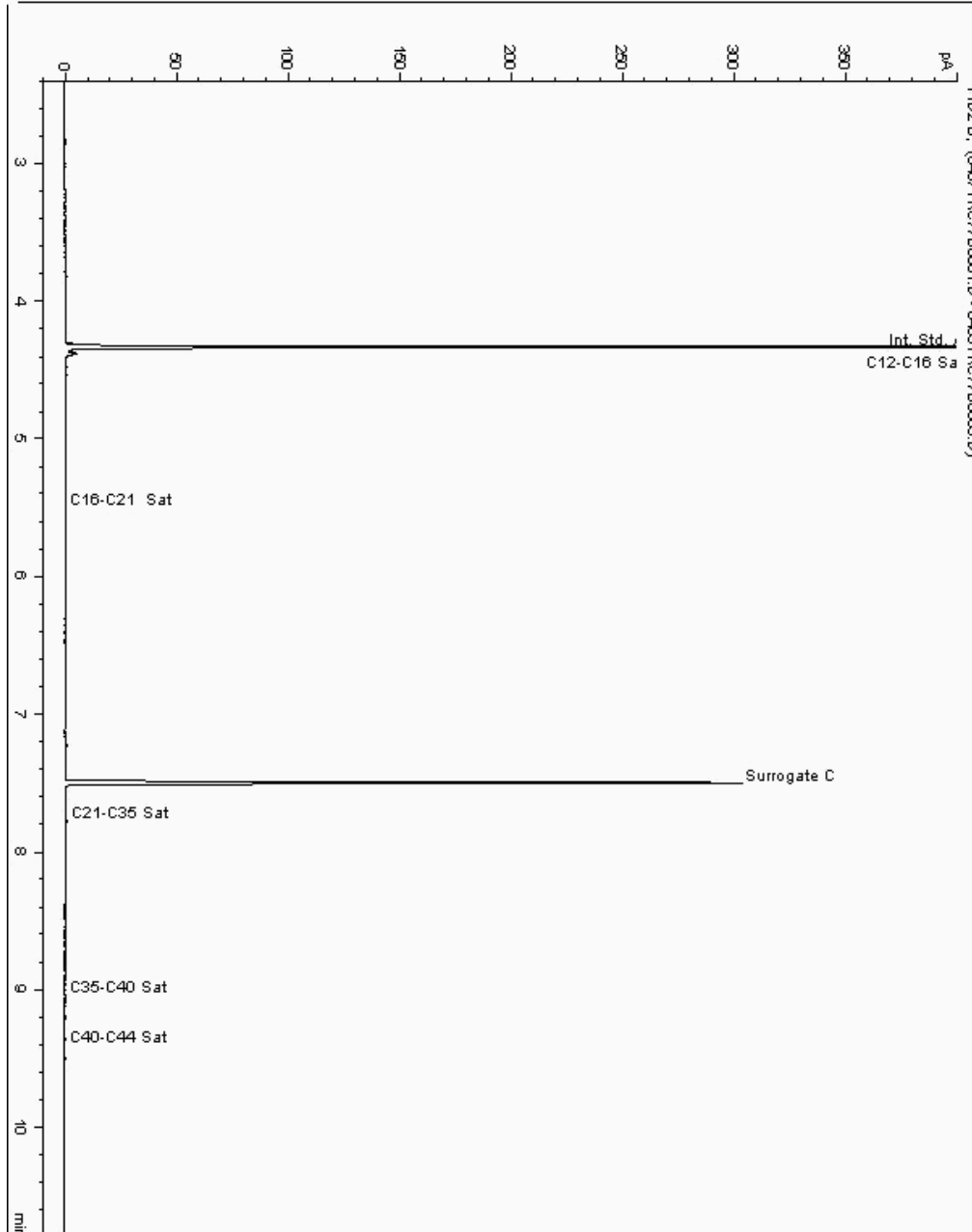
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244261
Sample ID : CATP079

Depth : 2.70

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272951-3244261
Date Acquired : 08/04/11 02:24:58 PM
Units : ppb
Dilution:





SDG: 110331-62
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Location: Coed Darcy Urban Village
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Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

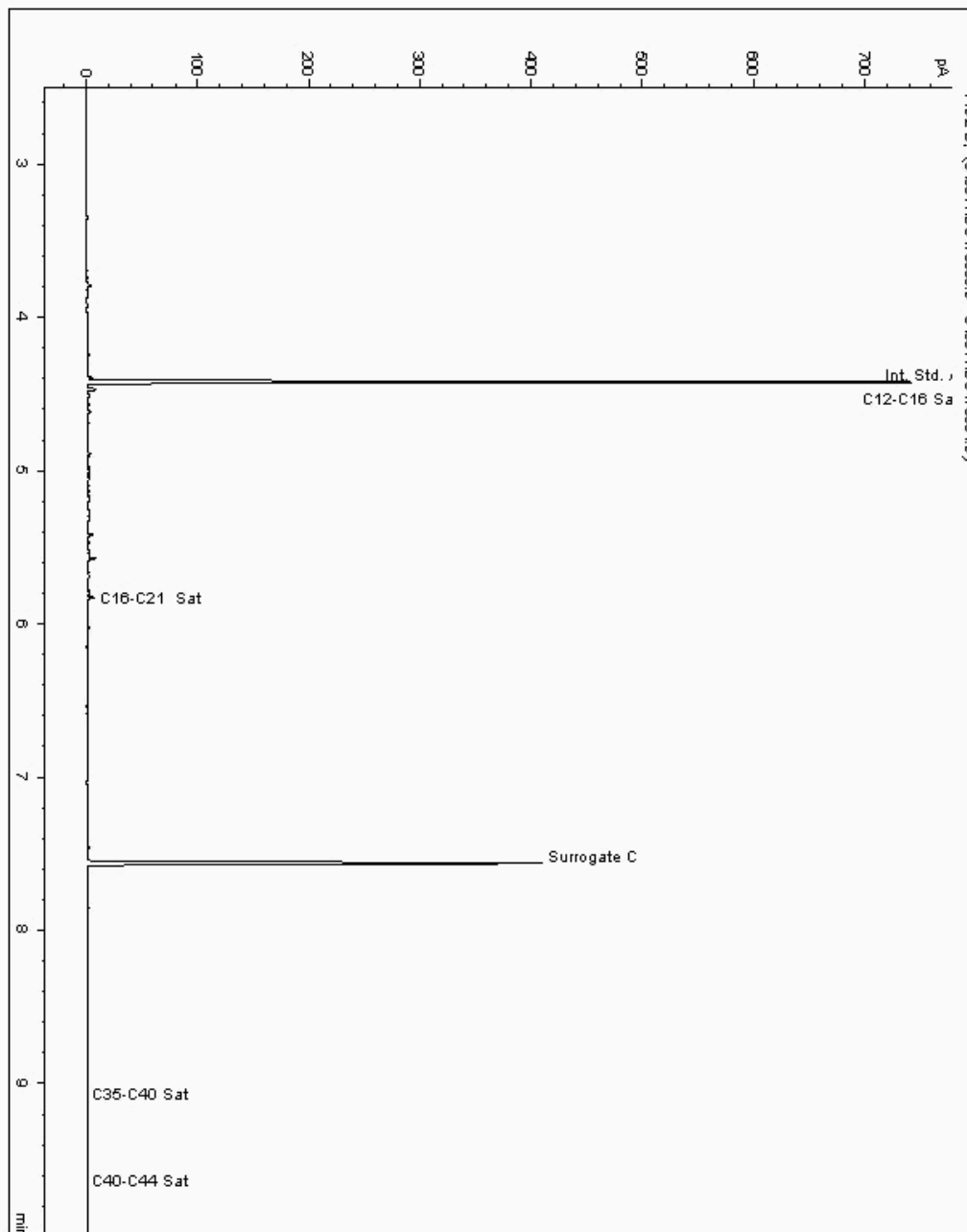
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244693
Sample ID : CATP079

Depth : 1.70

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272935-3244693
Date Acquired : 11/04/11 08:44:59 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

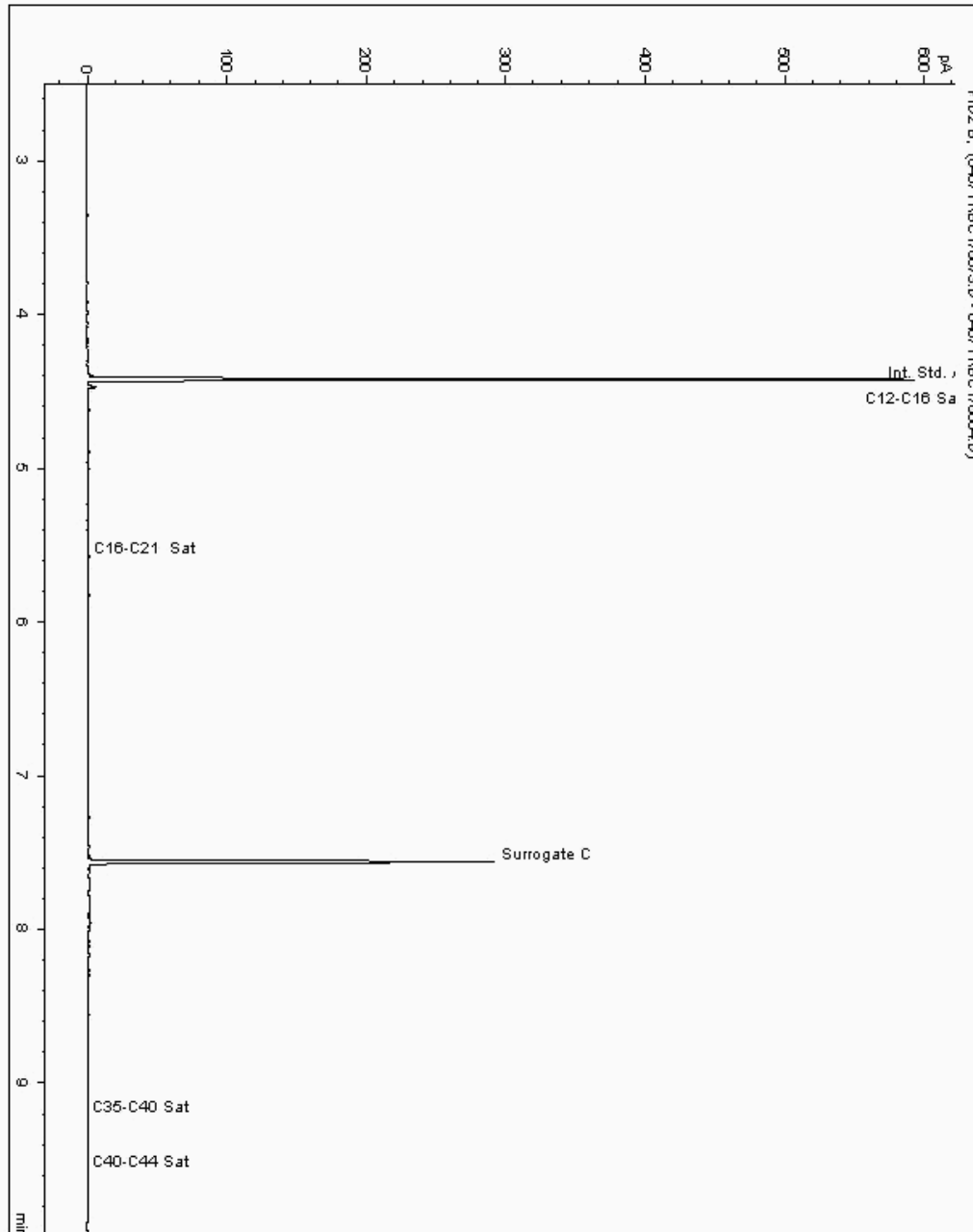
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244702
Sample ID : CATP078

Depth : 1.10

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272871-3244702
Date Acquired : 08/04/11 12:37:22 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

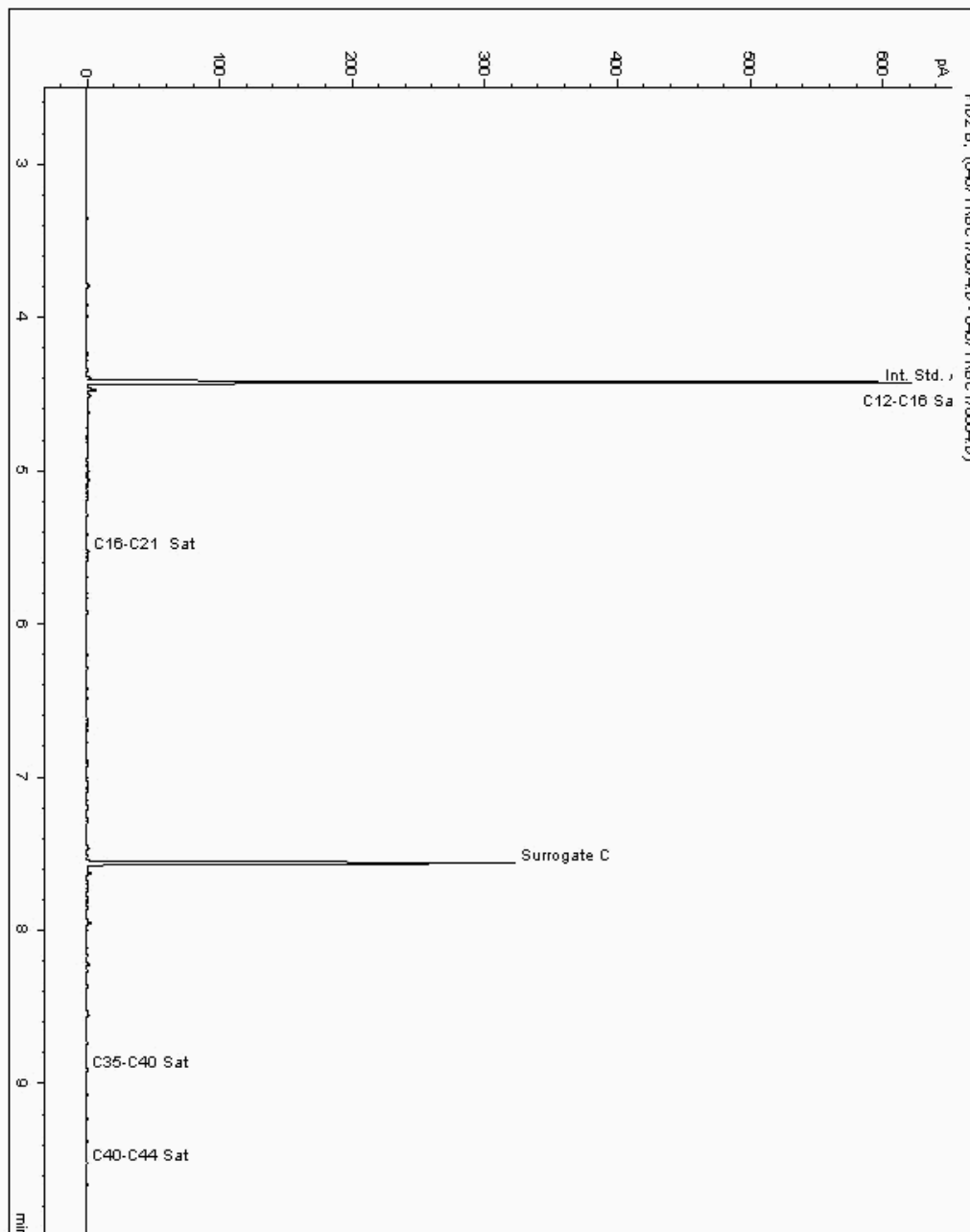
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244711
Sample ID : CATP082

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272731-3244711
Date Acquired : 08/04/11 12:57:09 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

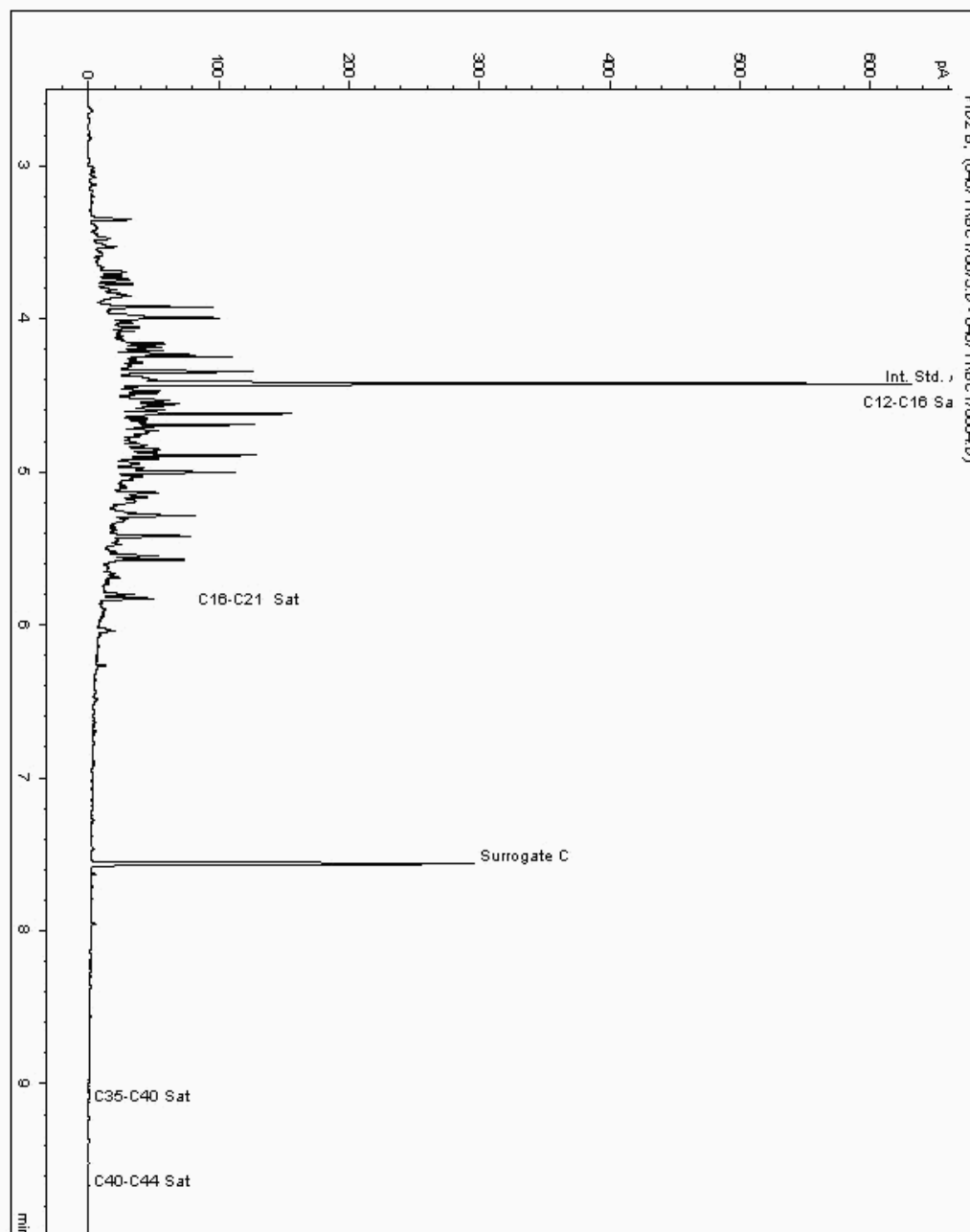
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244721
Sample ID : CATP072

Depth : 1.20

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272481-3244721
Date Acquired : 08/04/11 13:16:57 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

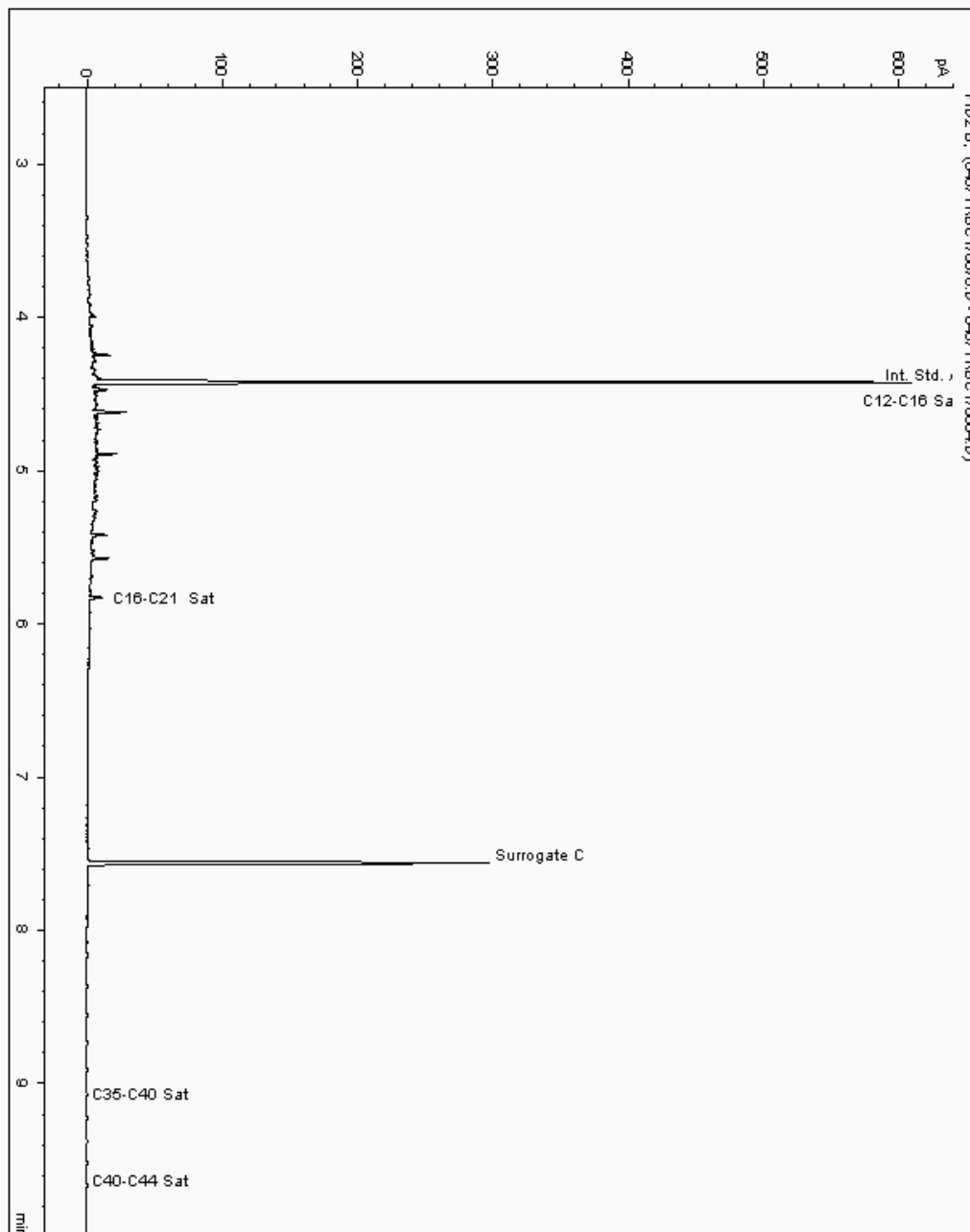
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244736
Sample ID : CATP074

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272853-3244736
Date Acquired : 08/04/11 13:36:48 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

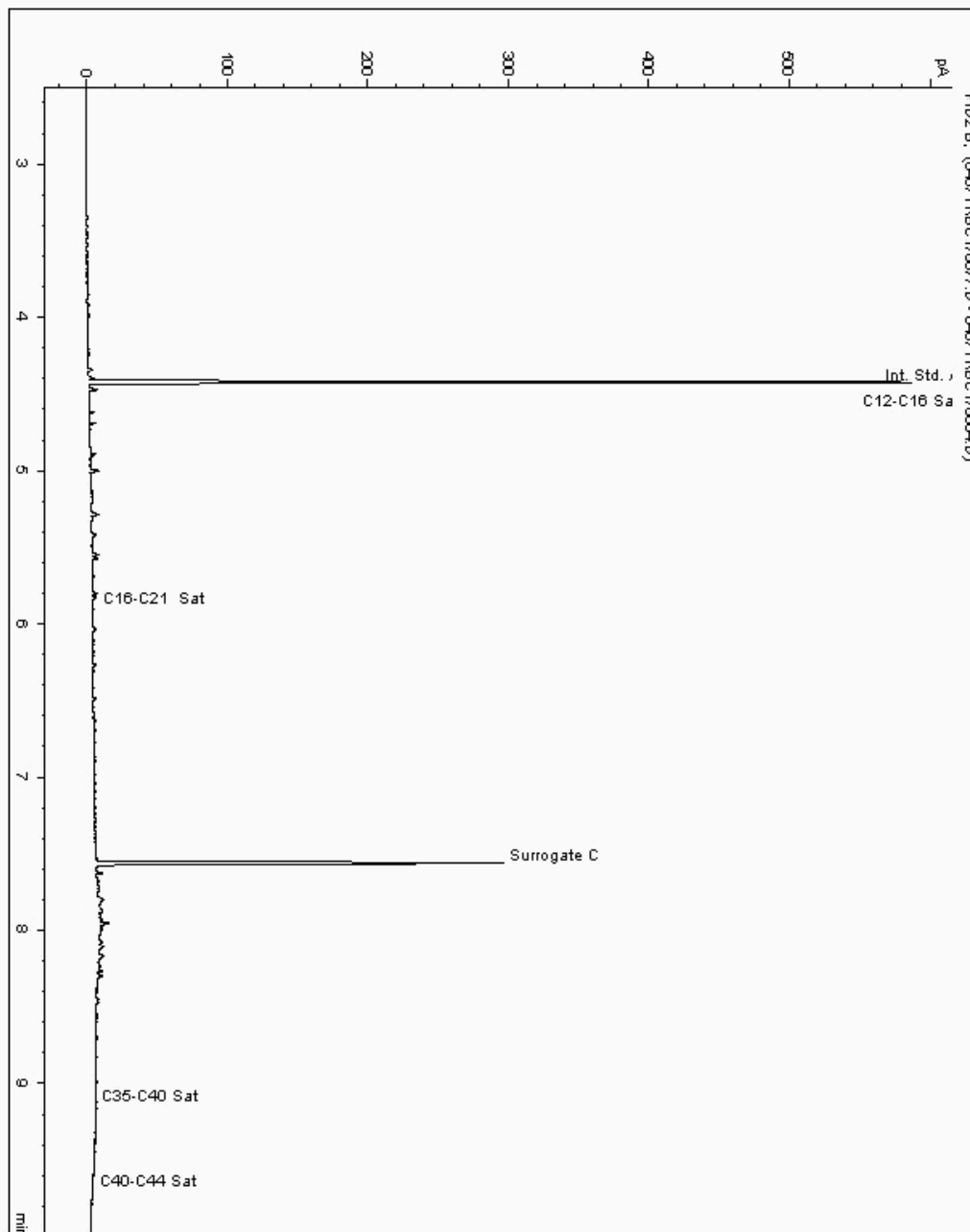
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244751
Sample ID : CATP074

Depth : 0.90

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272828-3244751
Date Acquired : 08/04/11 13:56:40 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

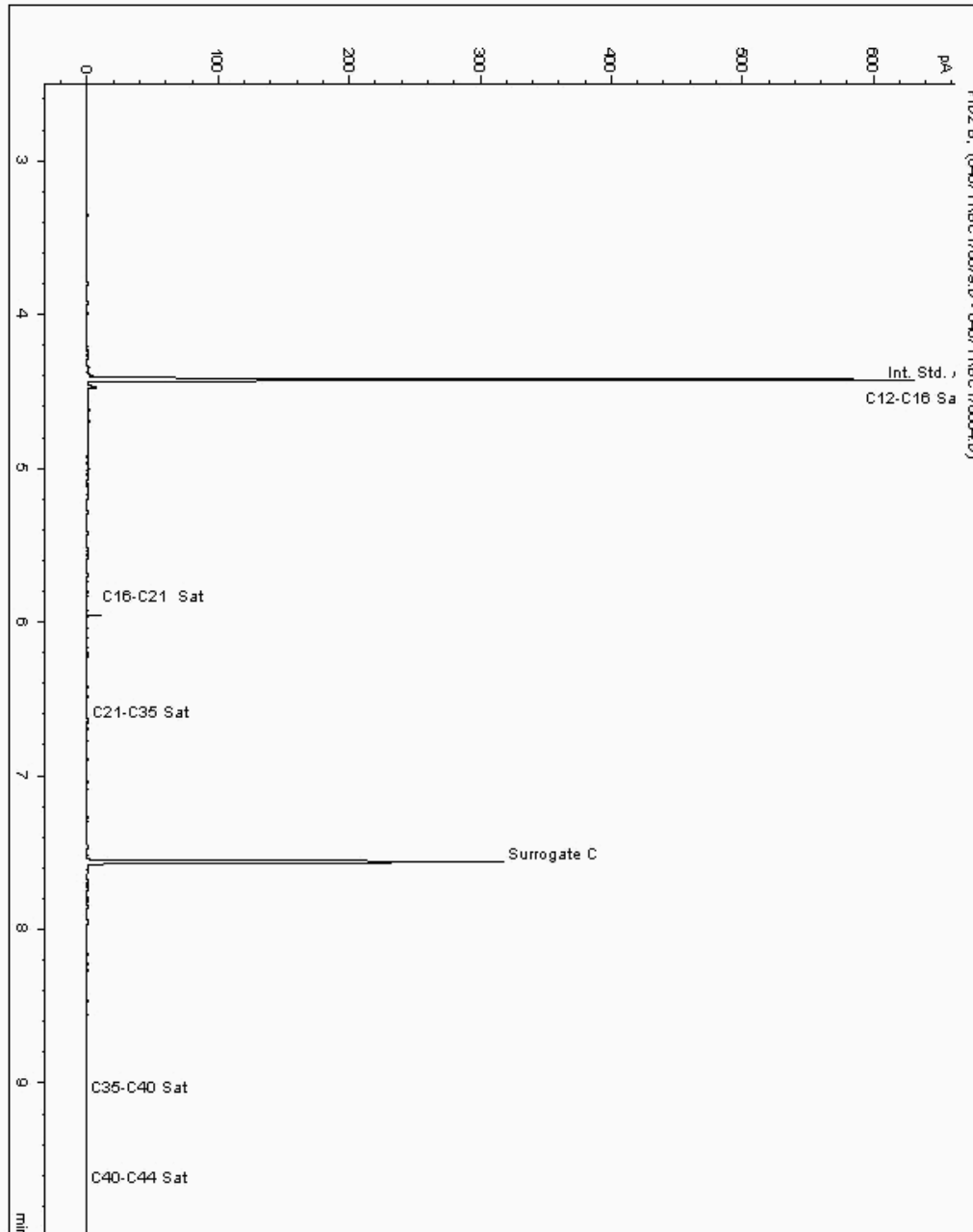
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244759
Sample ID : CATP073

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272380-3244759
Date Acquired : 08/04/11 14:26:56 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

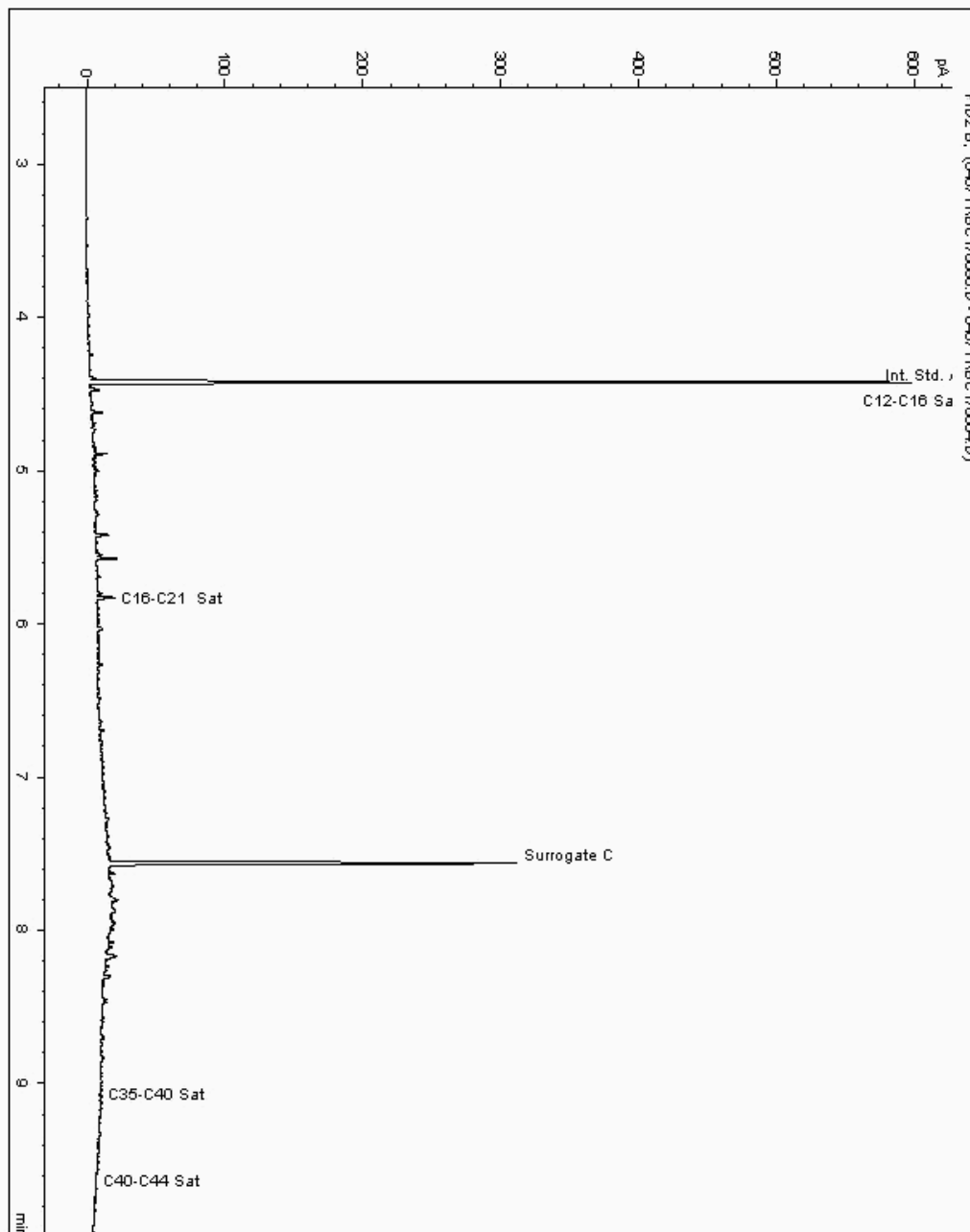
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244780
Sample ID : CATP077

Depth : 0.80

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272983-3244780
Date Acquired : 08/04/11 14:47:01 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

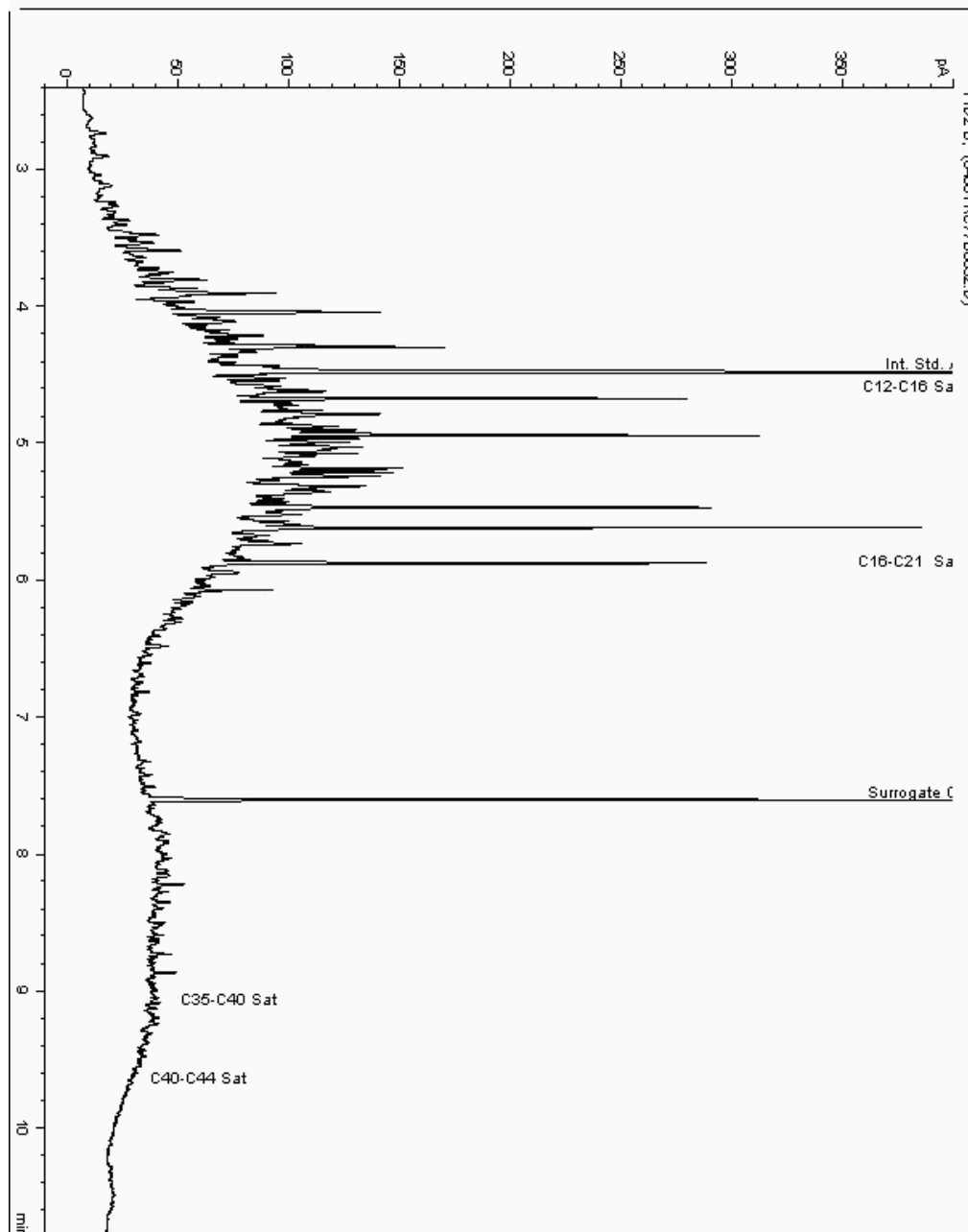
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244810
Sample ID : CATP079

Depth : 0.70

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272918-3244810
Date Acquired : 08/04/11 23:07:51 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

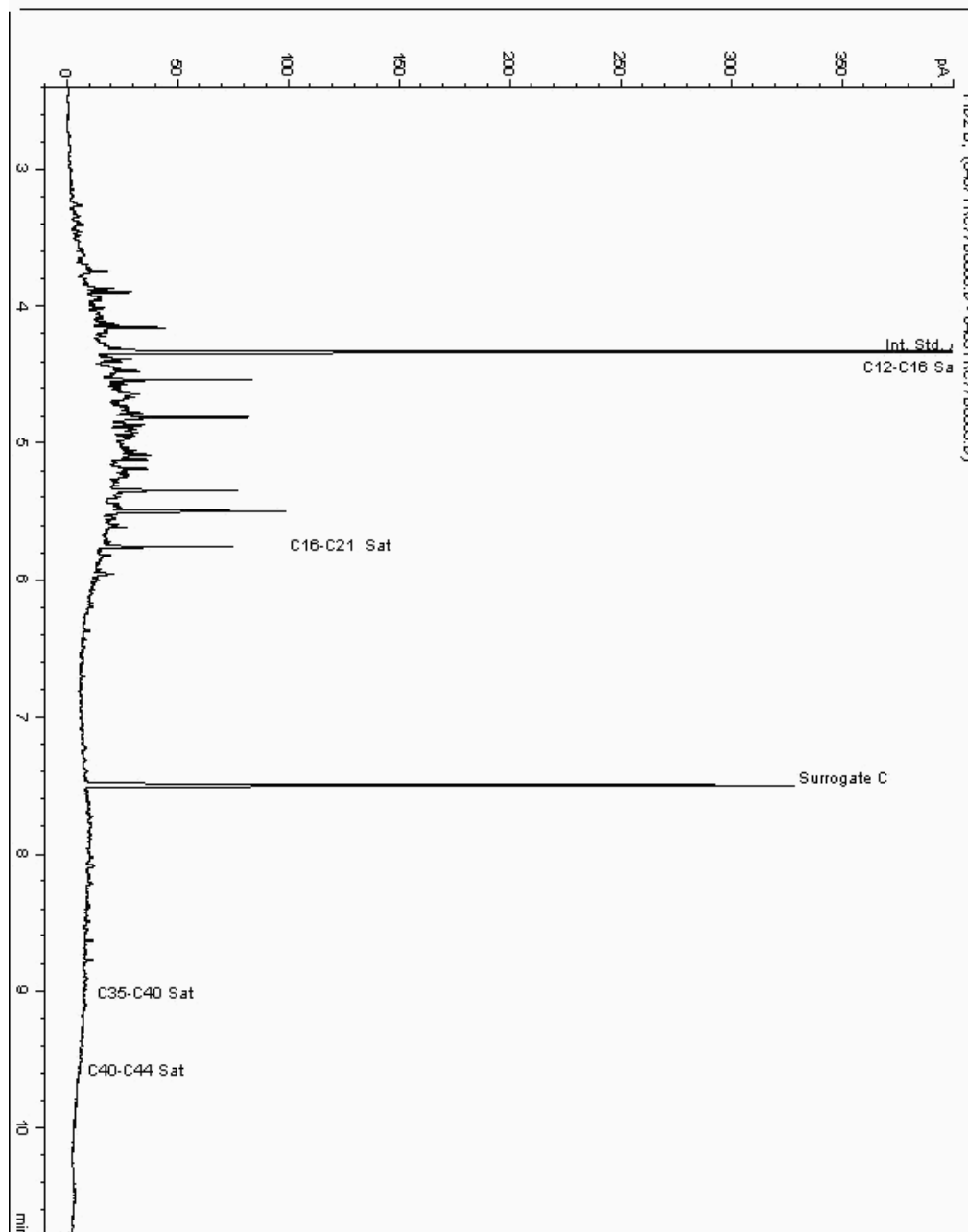
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244829
Sample ID : CATP078

Depth : 2.10

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272897-3244829
Date Acquired : 08/04/11 04:13:31 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

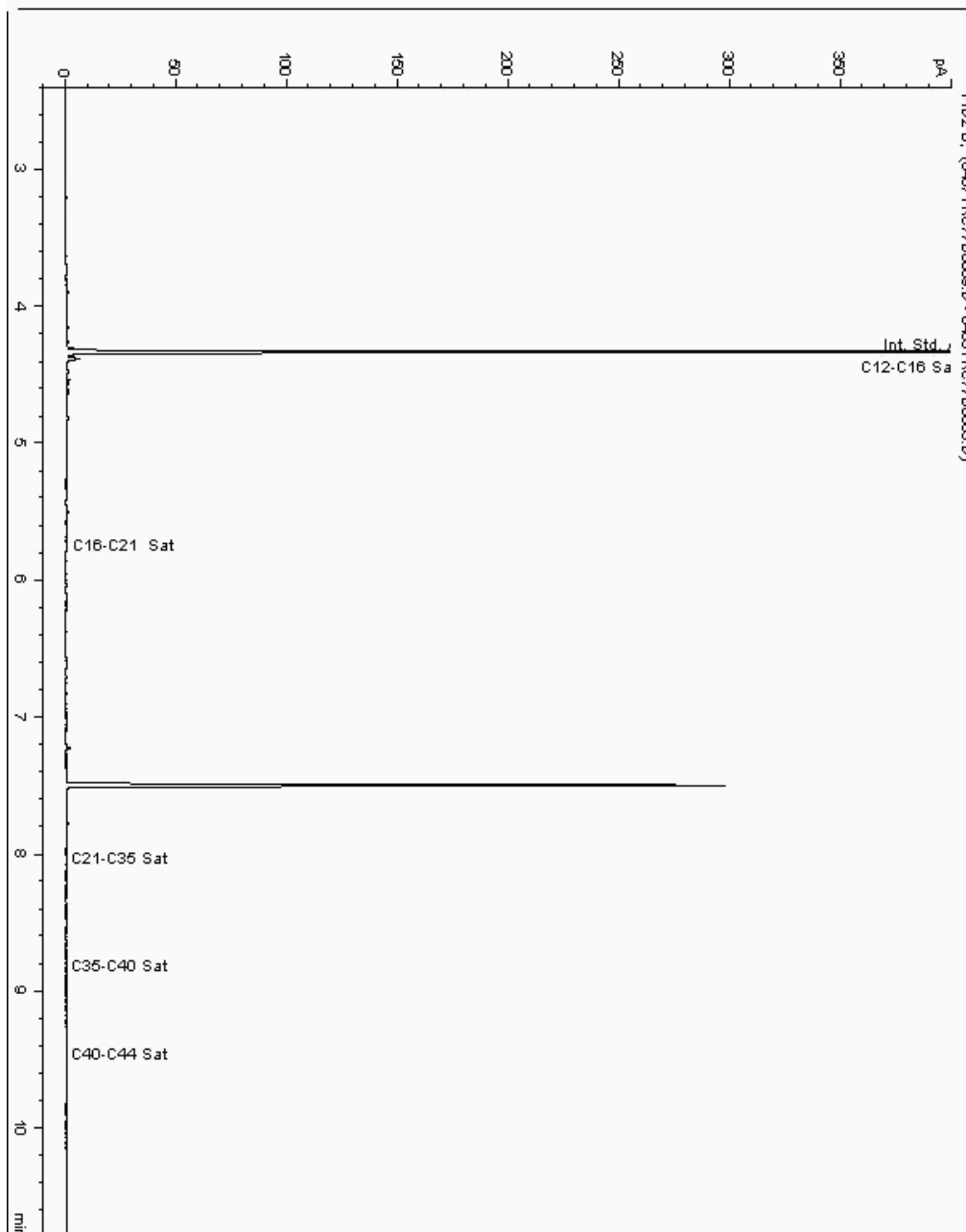
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244839
Sample ID : CATP077

Depth : 1.40

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3273029-3244839
Date Acquired : 08/04/11 04:33:23 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

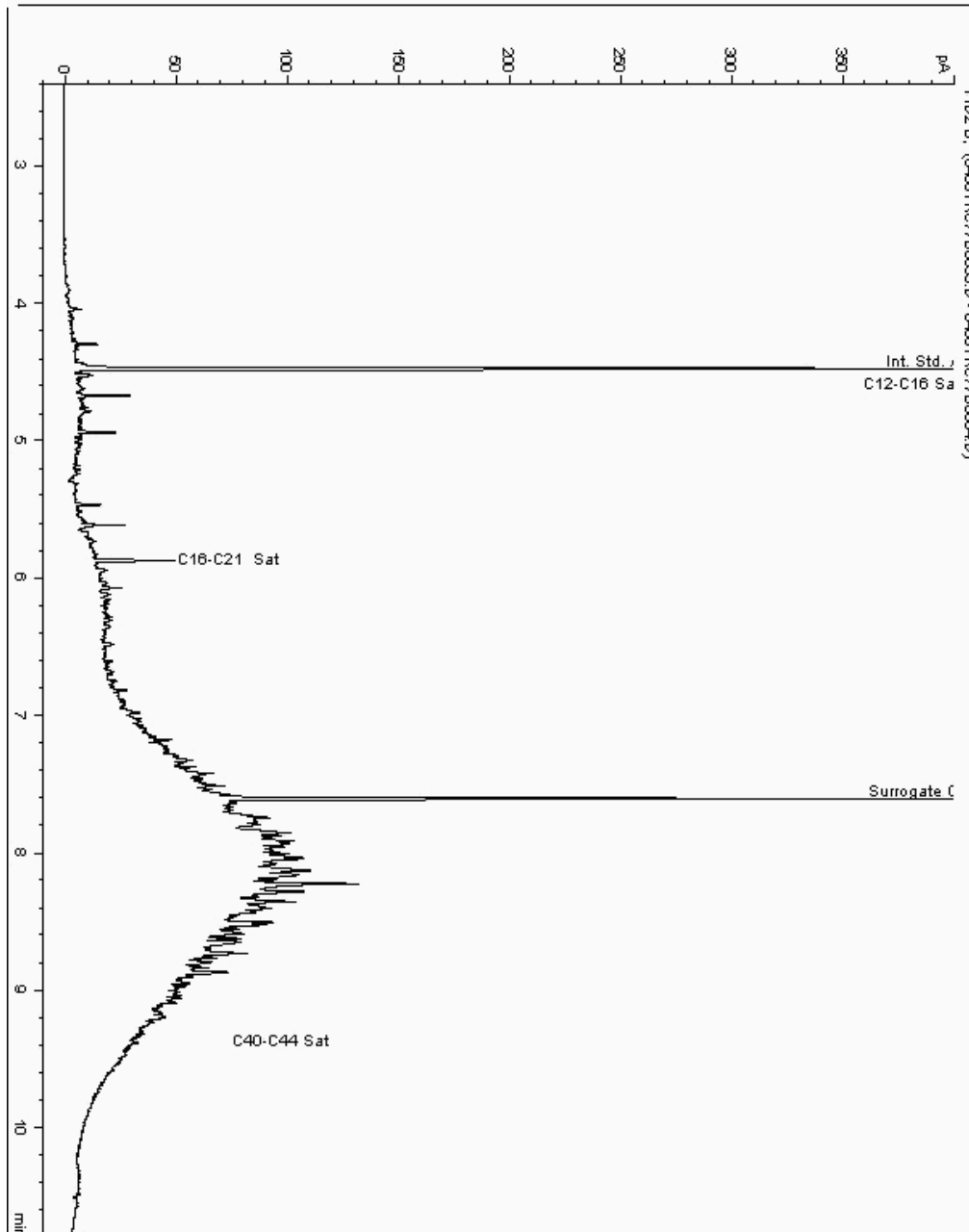
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244848
Sample ID : CATP104

Depth : 1.40

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3271667-3244848
Date Acquired : 08/04/11 23:27:43 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

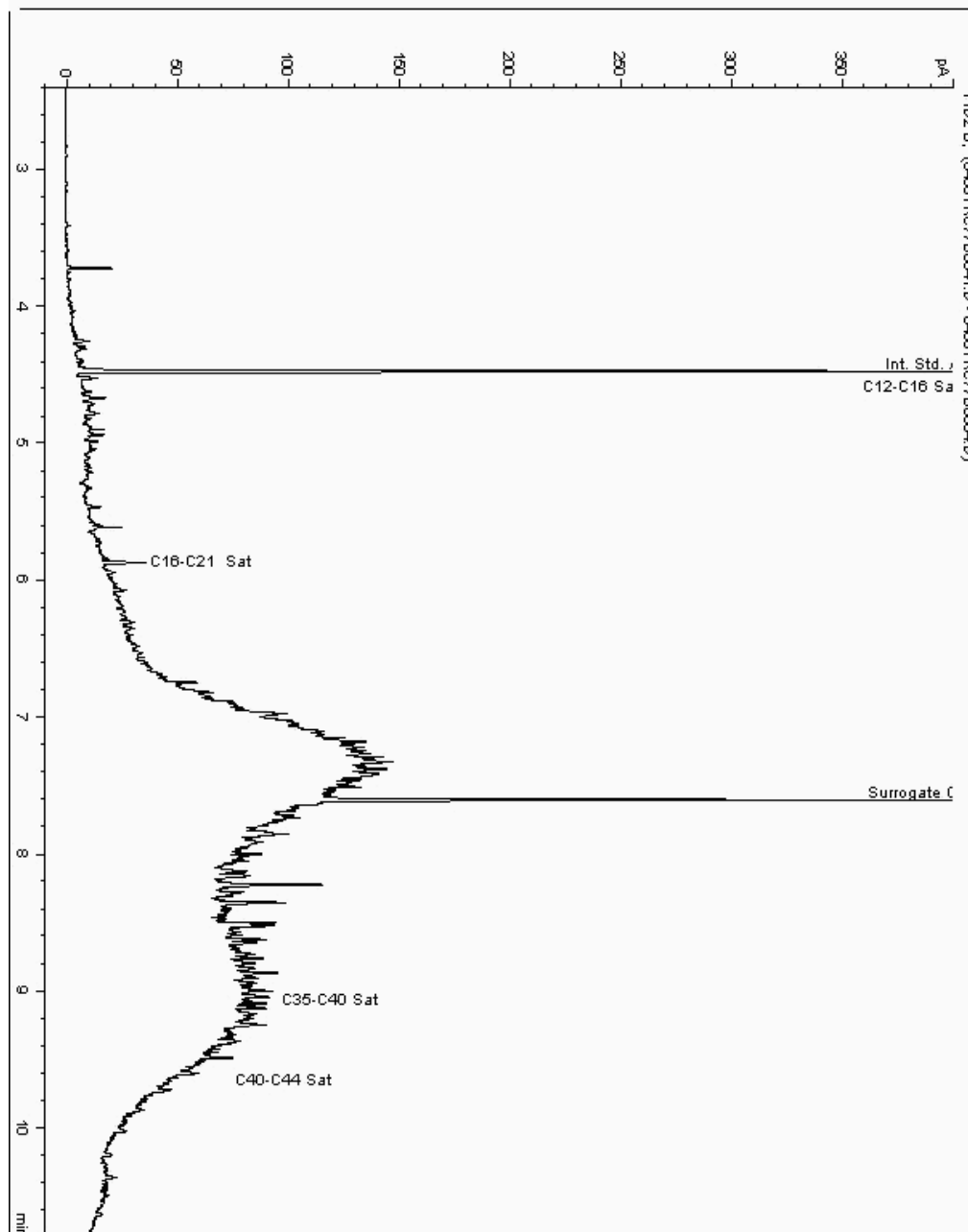
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3244966
Sample ID : CATP068

Depth : 0.60

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272521-3244966
Date Acquired : 09/04/11 01:36:45 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

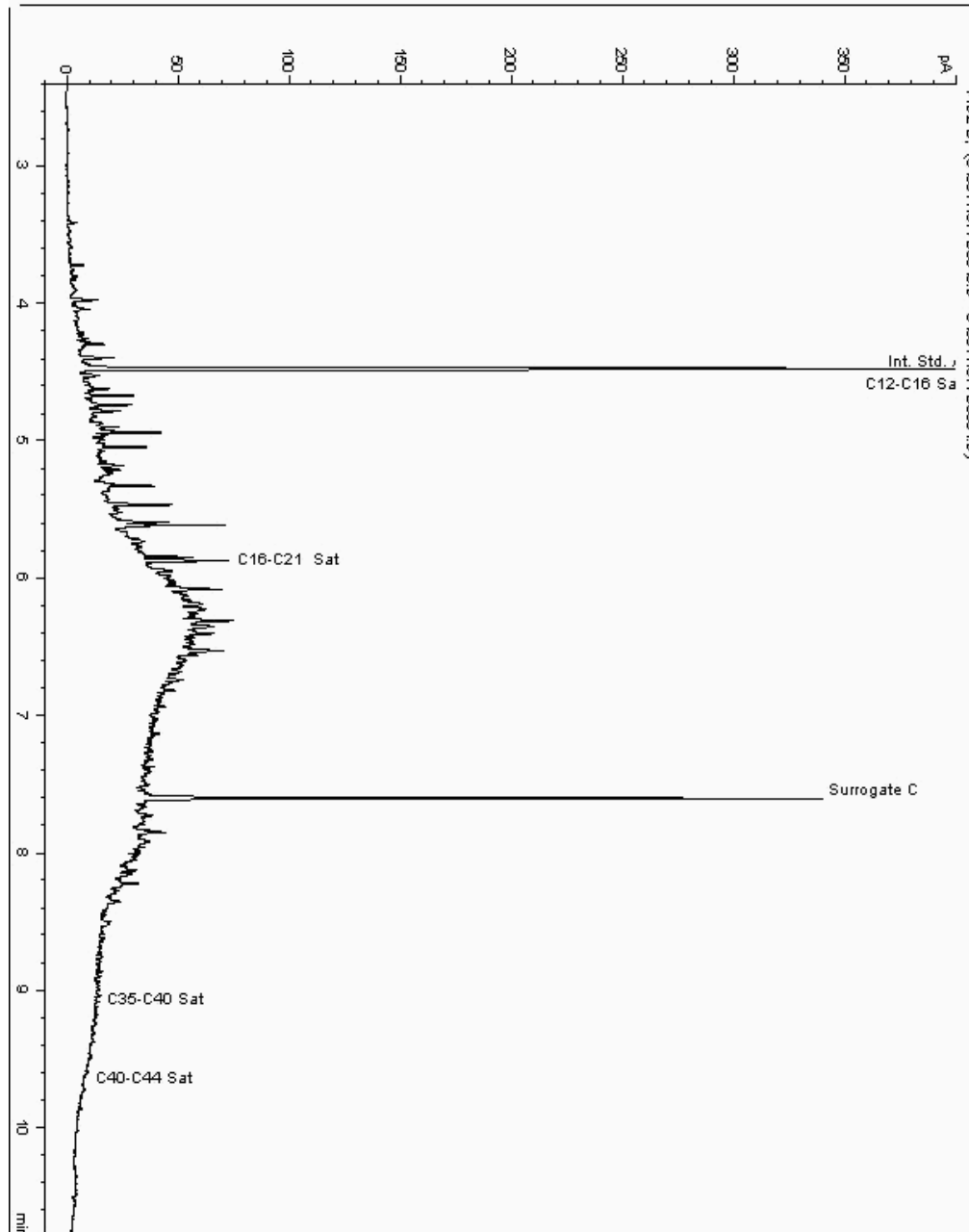
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3245004
Sample ID : CATP080

Depth : 0.80

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272244-3245004
Date Acquired : 09/04/11 02:36:05 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

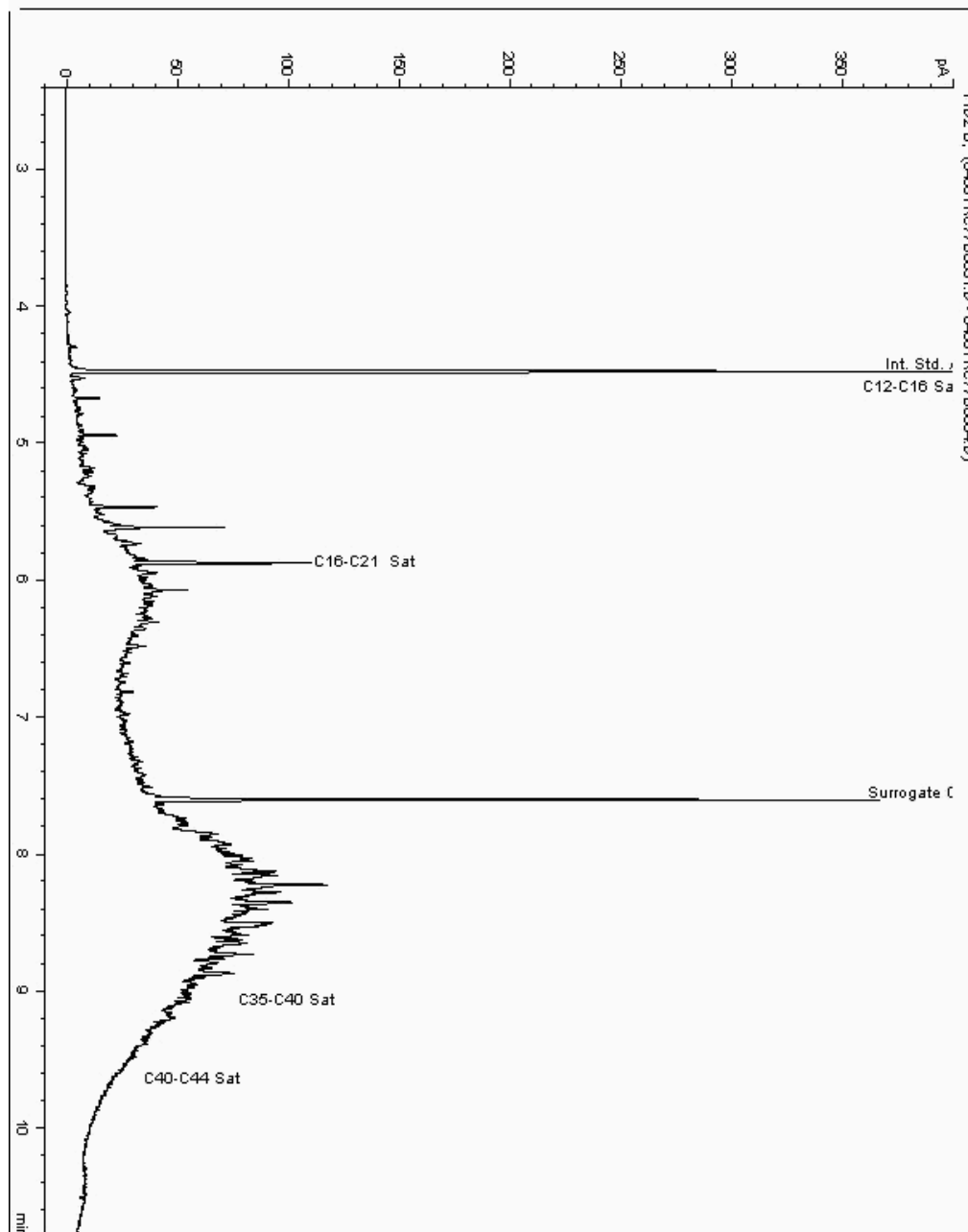
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3245072
Sample ID : CATP102

Depth : 1.60

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3271937-3245072
Date Acquired : 08/04/11 22:47:59 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

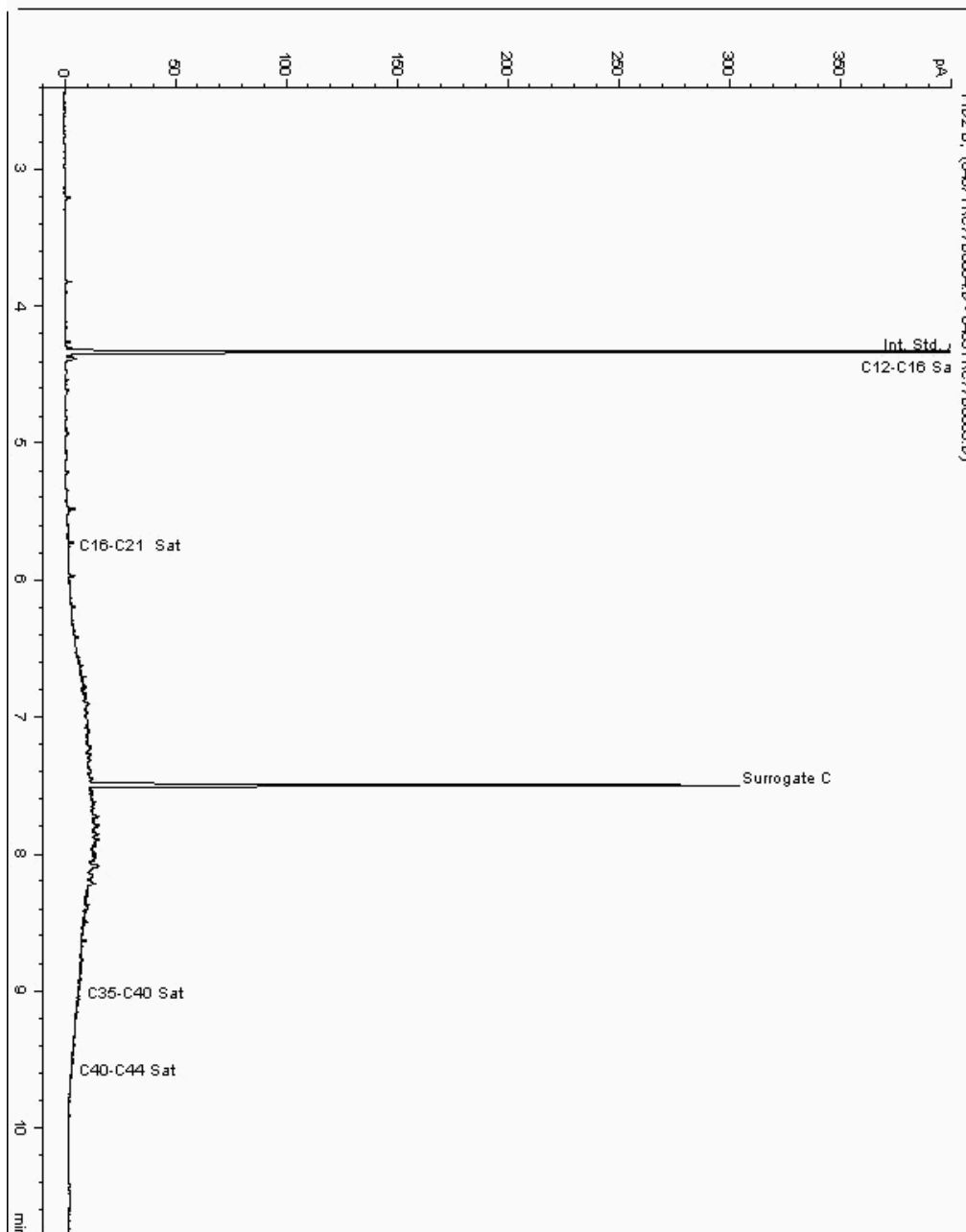
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3245092
Sample ID : CATP102

Depth : 0.90

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3271869-3245092
Date Acquired : 08/04/11 03:14:12 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

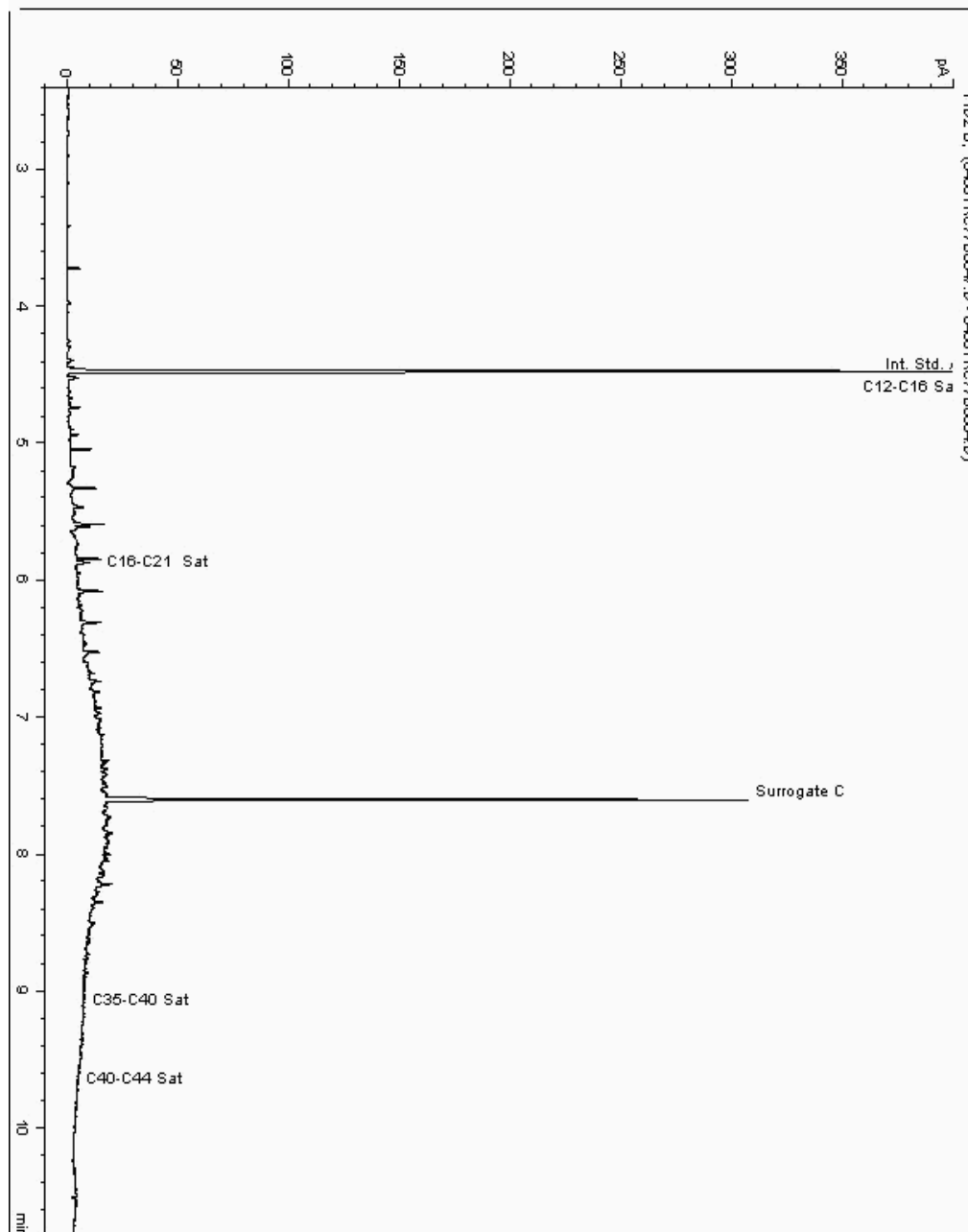
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3245262
Sample ID : CATP103

Depth : 0.80

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3271746-3245262
Date Acquired : 09/04/11 03:06:20 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

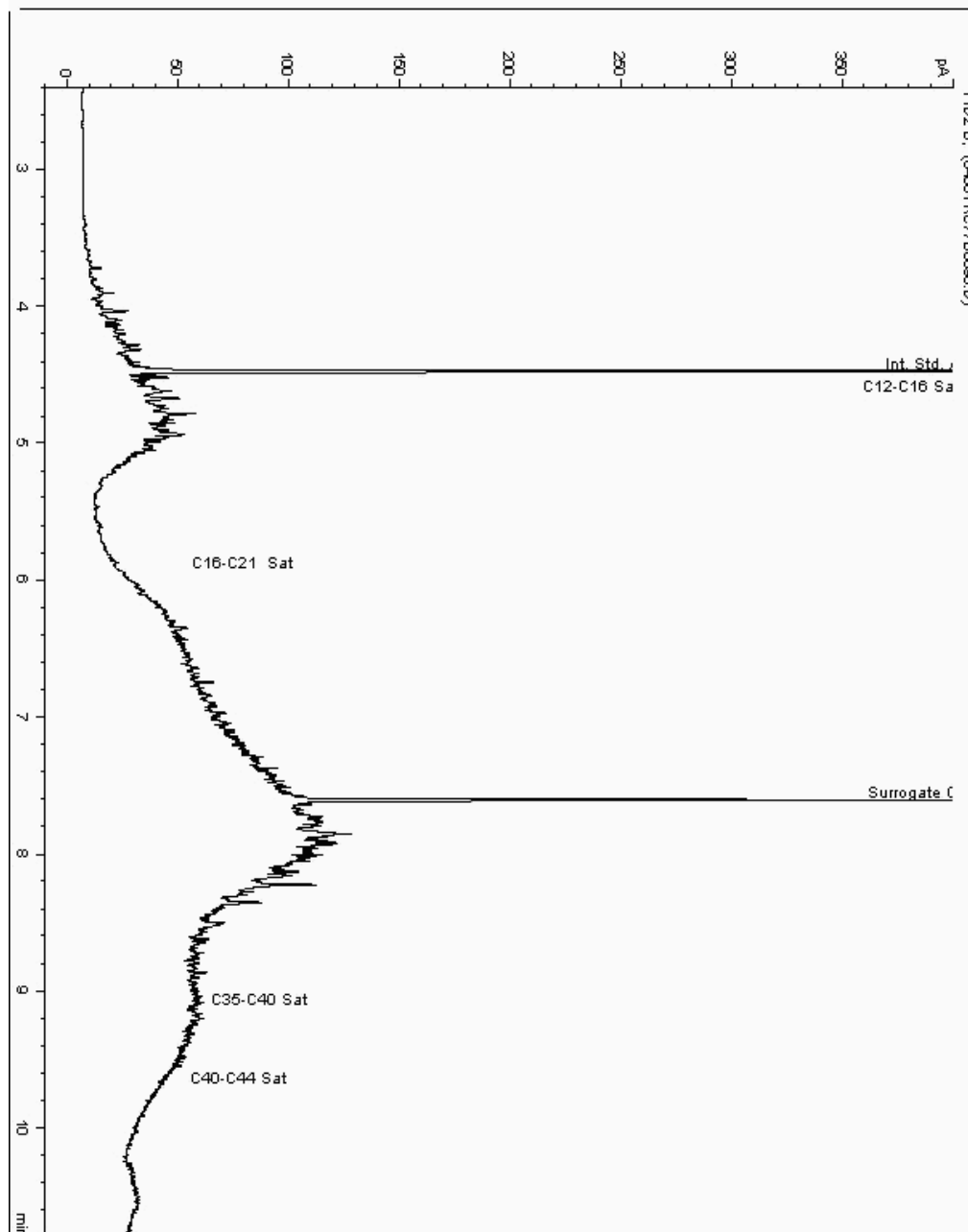
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3245313
Sample ID : CATP103

Depth : 1.60

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3271813-3245313
Date Acquired : 11/04/11 11:38:59 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

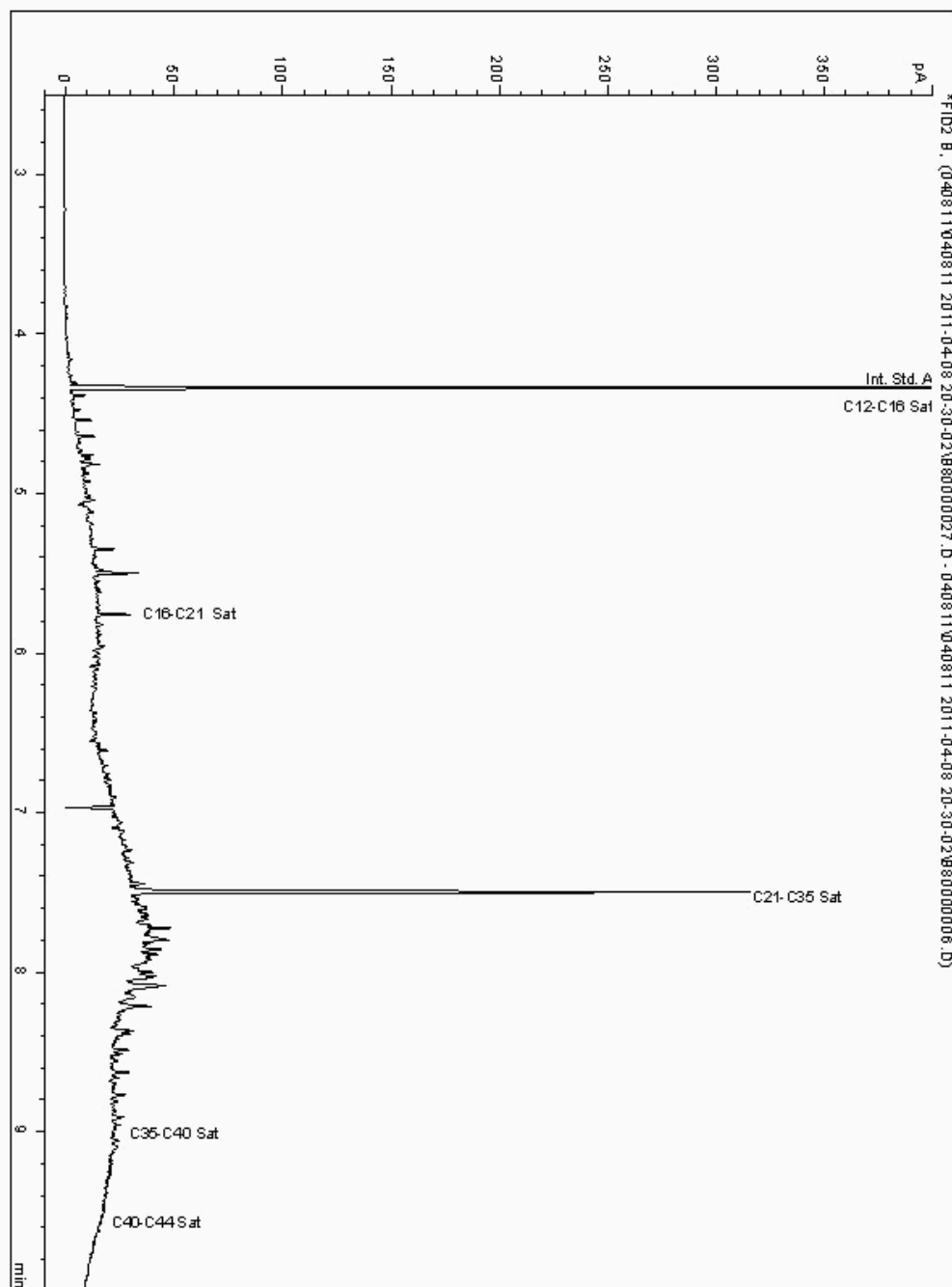
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3247107
Sample ID : CATP100

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3271992-3247107
Date Acquired : 08/04/11 18:30:22
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

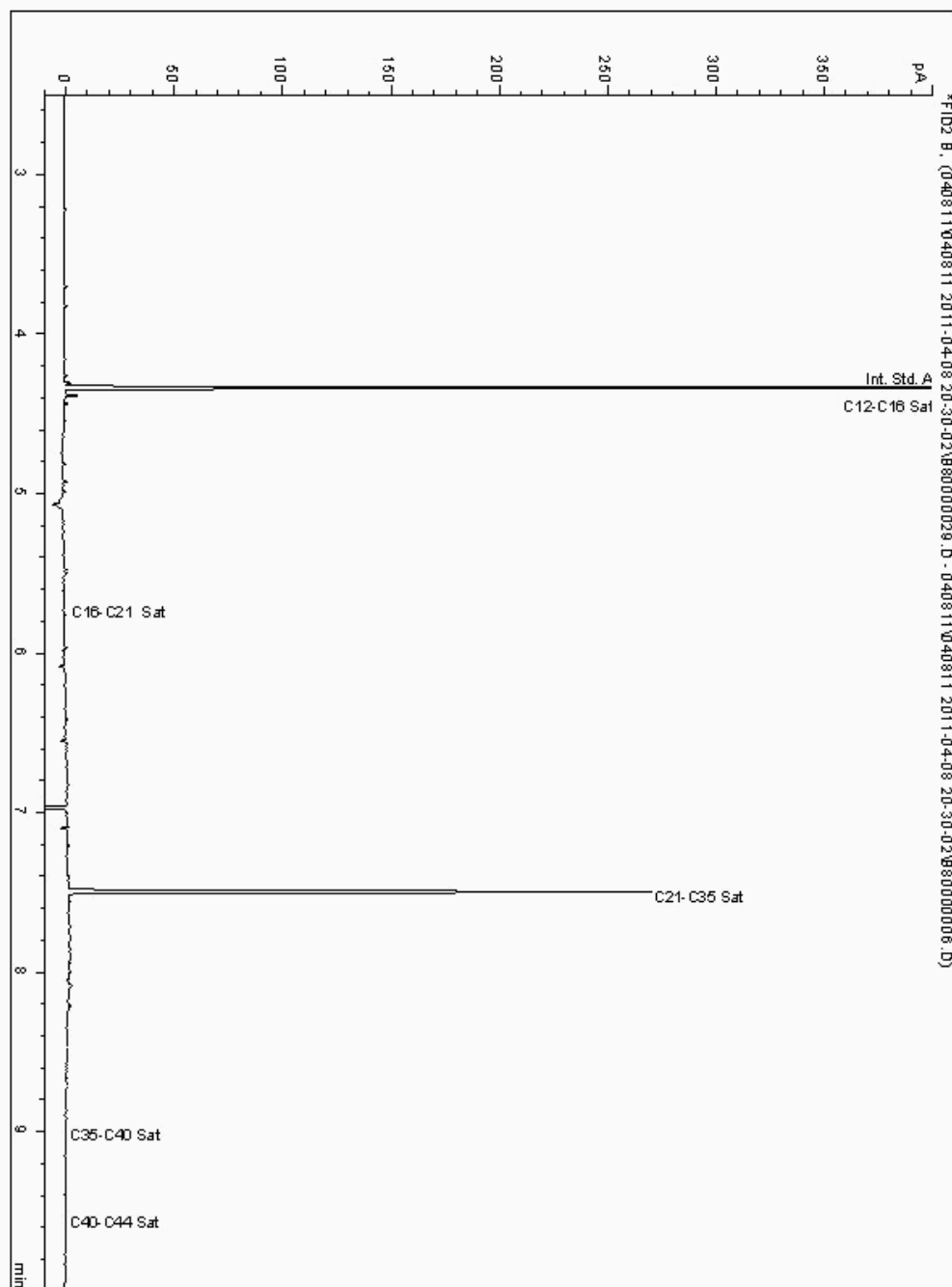
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3247121
Sample ID : CATP101

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272138-3247121
Date Acquired : 08/04/11 19:02:33
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

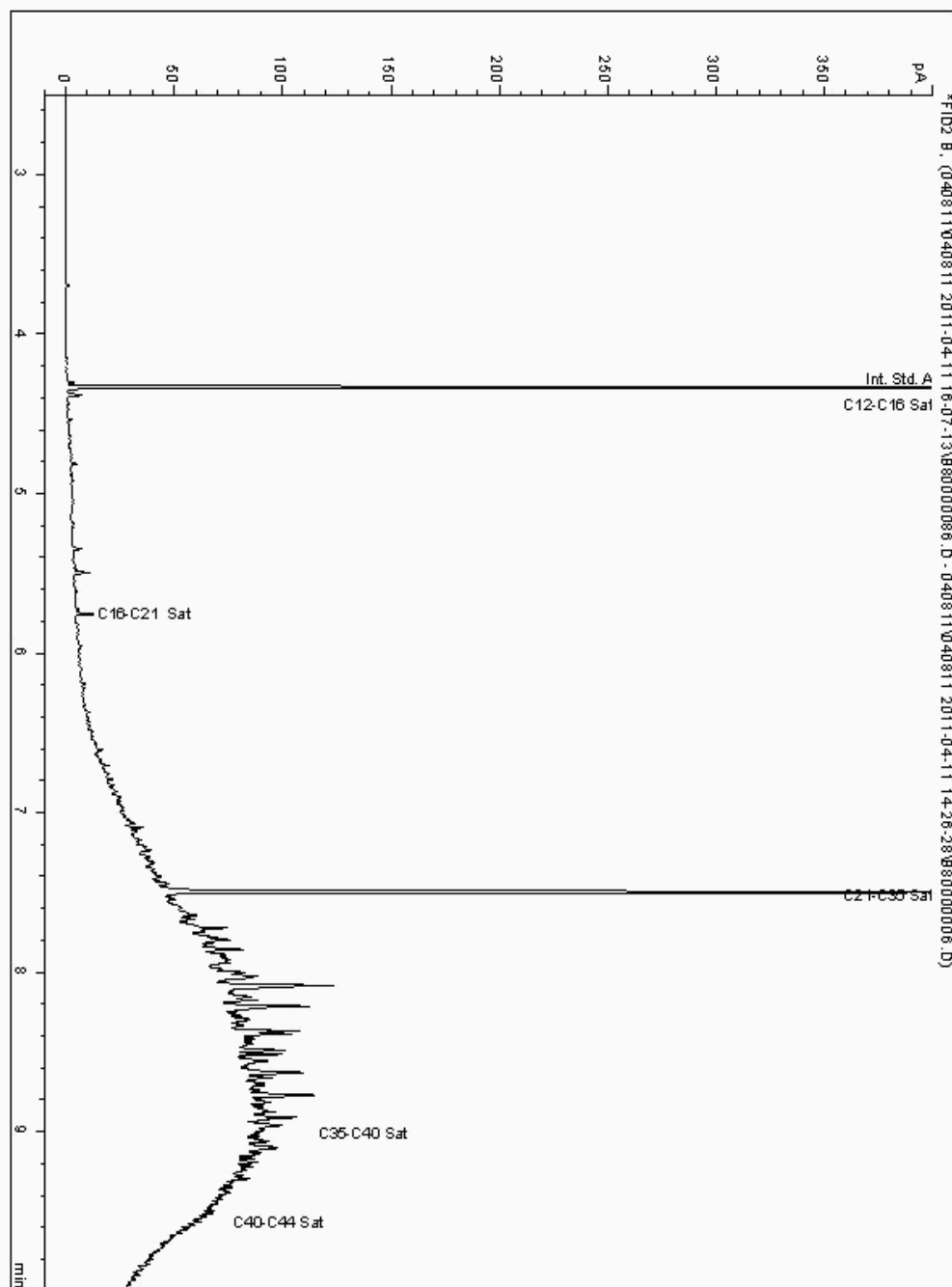
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3247126
Sample ID : CATP101

Depth : 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272192-3247126
Date Acquired : 11/04/11 16:10:57
Units : ppb
Dilution :
CF : 1
Multiplier : 5.000





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

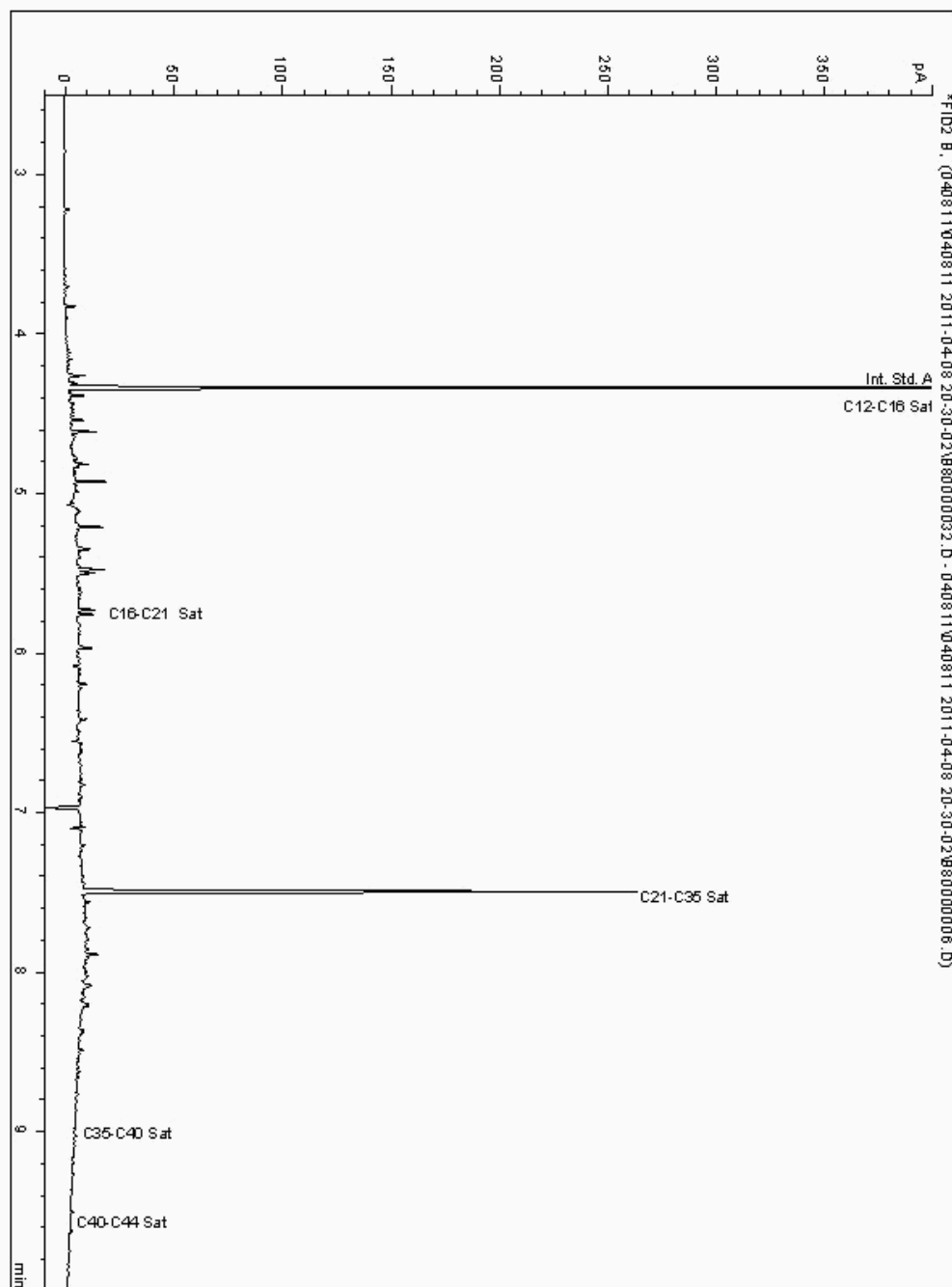
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3247165
Sample ID : CATP073

Depth : 0.40

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272307-3247165
Date Acquired : 08/04/11 19:54:32
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

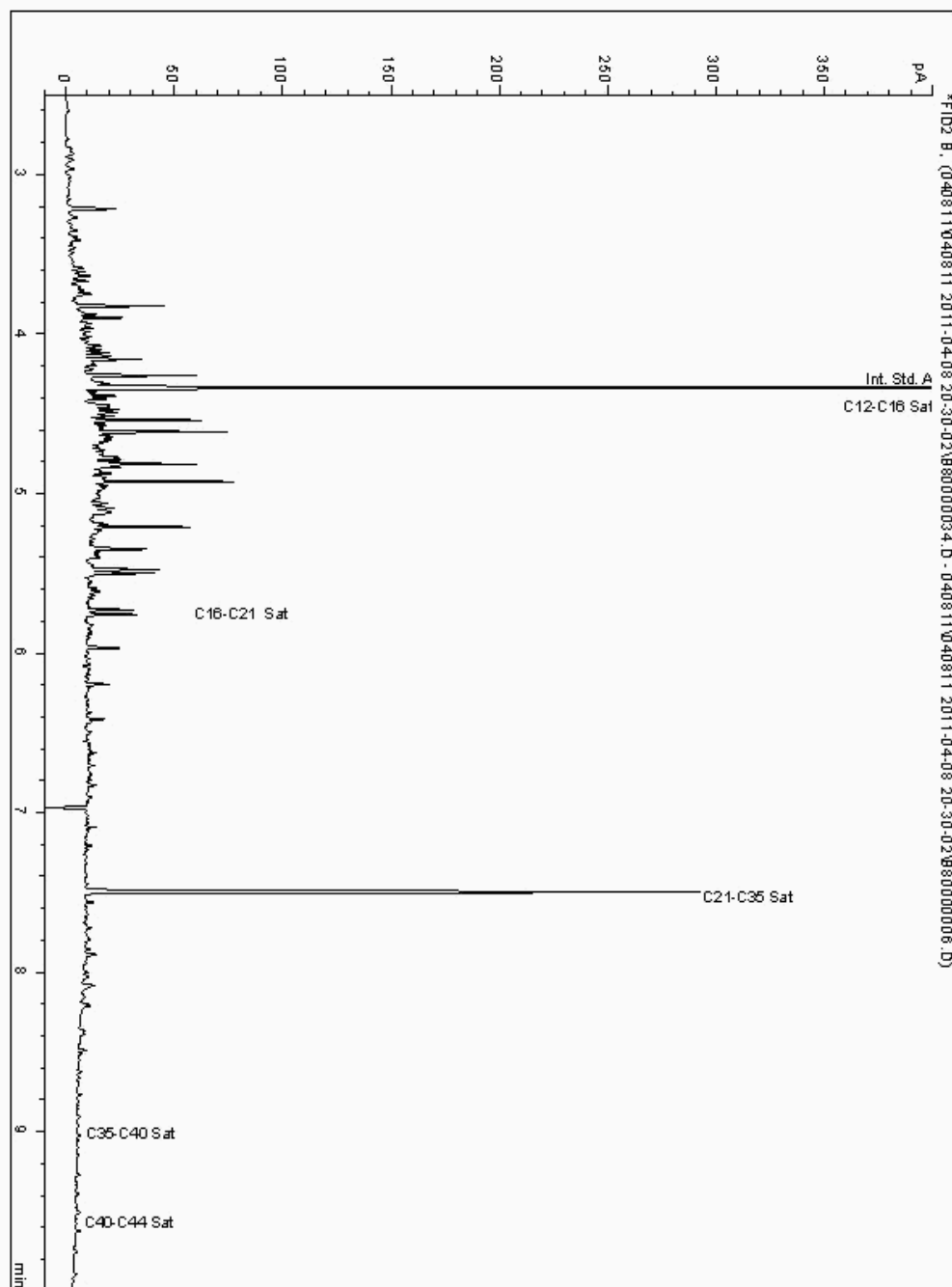
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3247173
Sample ID : CATP072

Depth : 0.40

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3272433-3247173
Date Acquired : 08/04/11 20:32:40
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

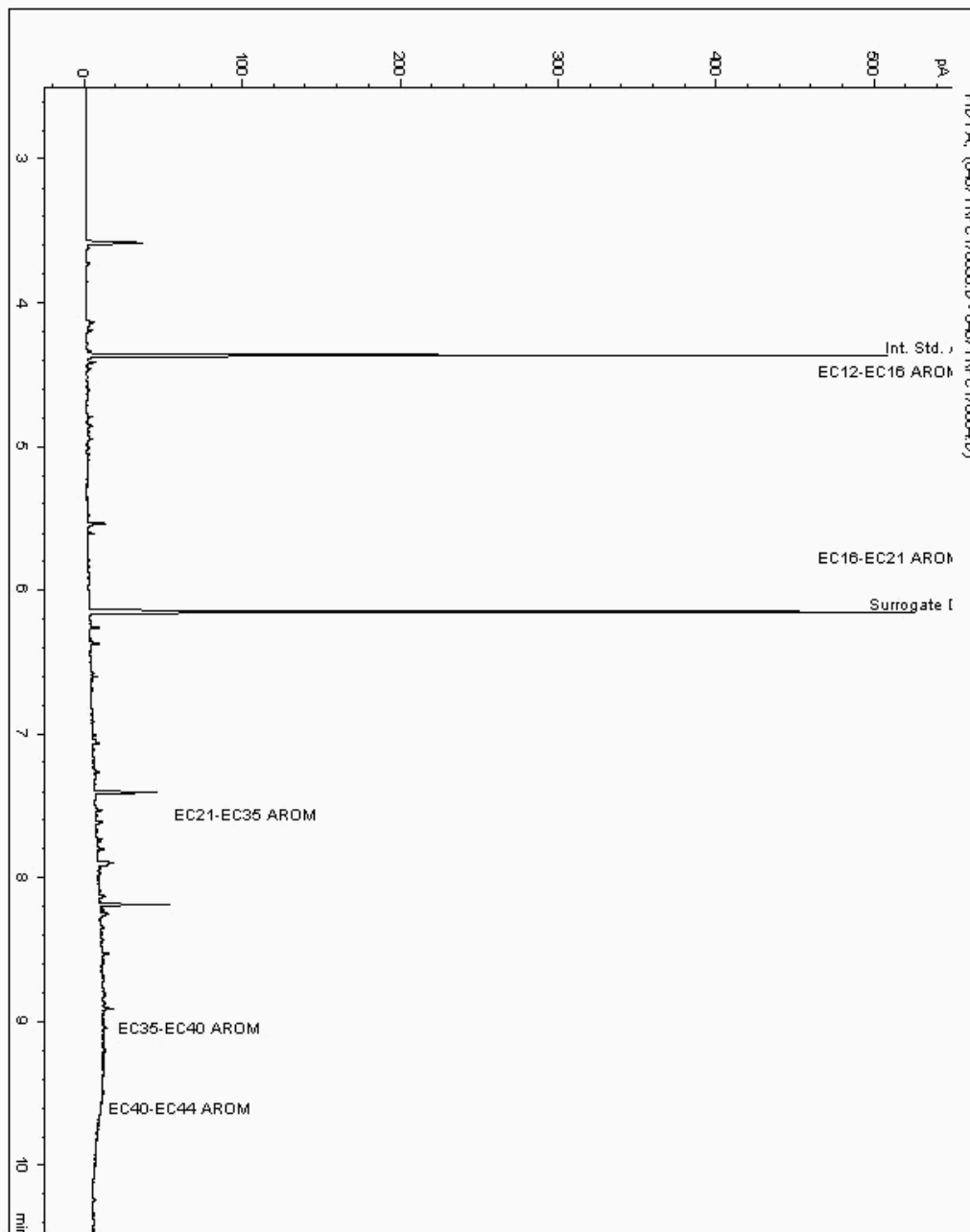
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3243366
Sample ID : CATP076

Depth : 0.70

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272796-3243366
Date Acquired : 08/04/11 07:58:36 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

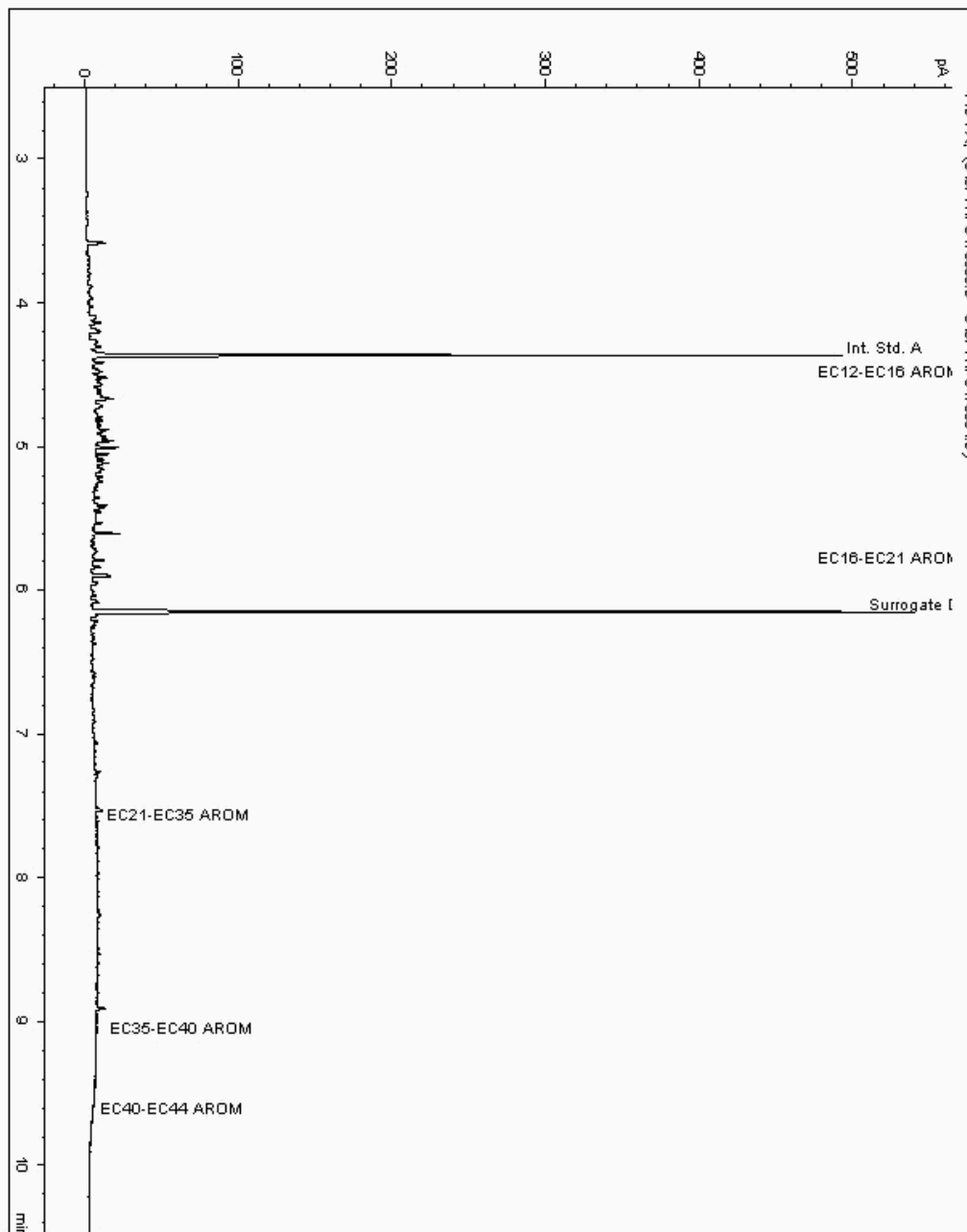
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3243382
Sample ID : CATP075

Depth : 1.30

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272780-3243382
Date Acquired : 08/04/11 08:28:37 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

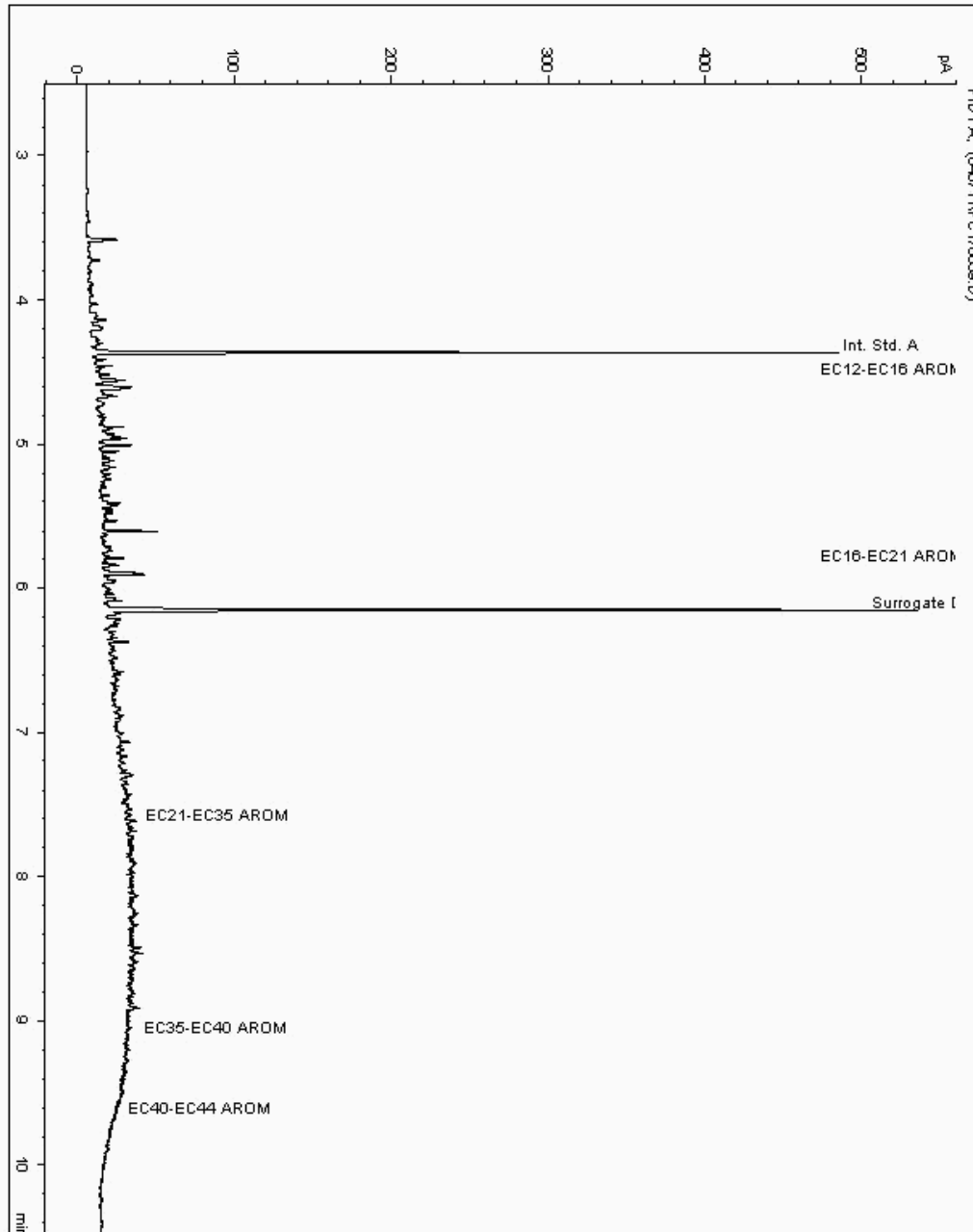
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3243401
Sample ID : CATP075

Depth : 0.70

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272760-3243401
Date Acquired : 08/04/11 08:48:19 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.000





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

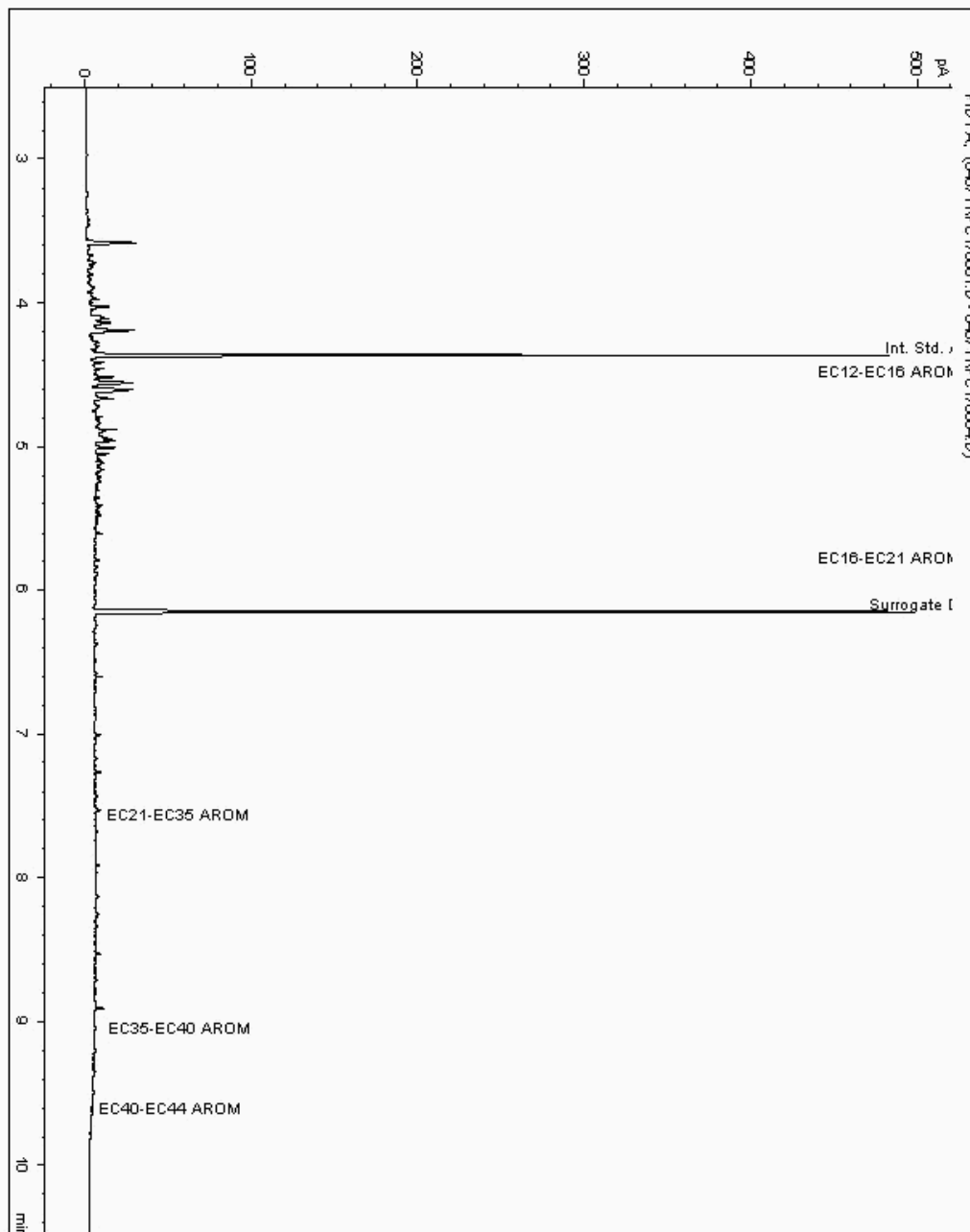
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3243423
Sample ID : CATP076

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272813-3243423
Date Acquired : 08/04/11 09:18:27 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

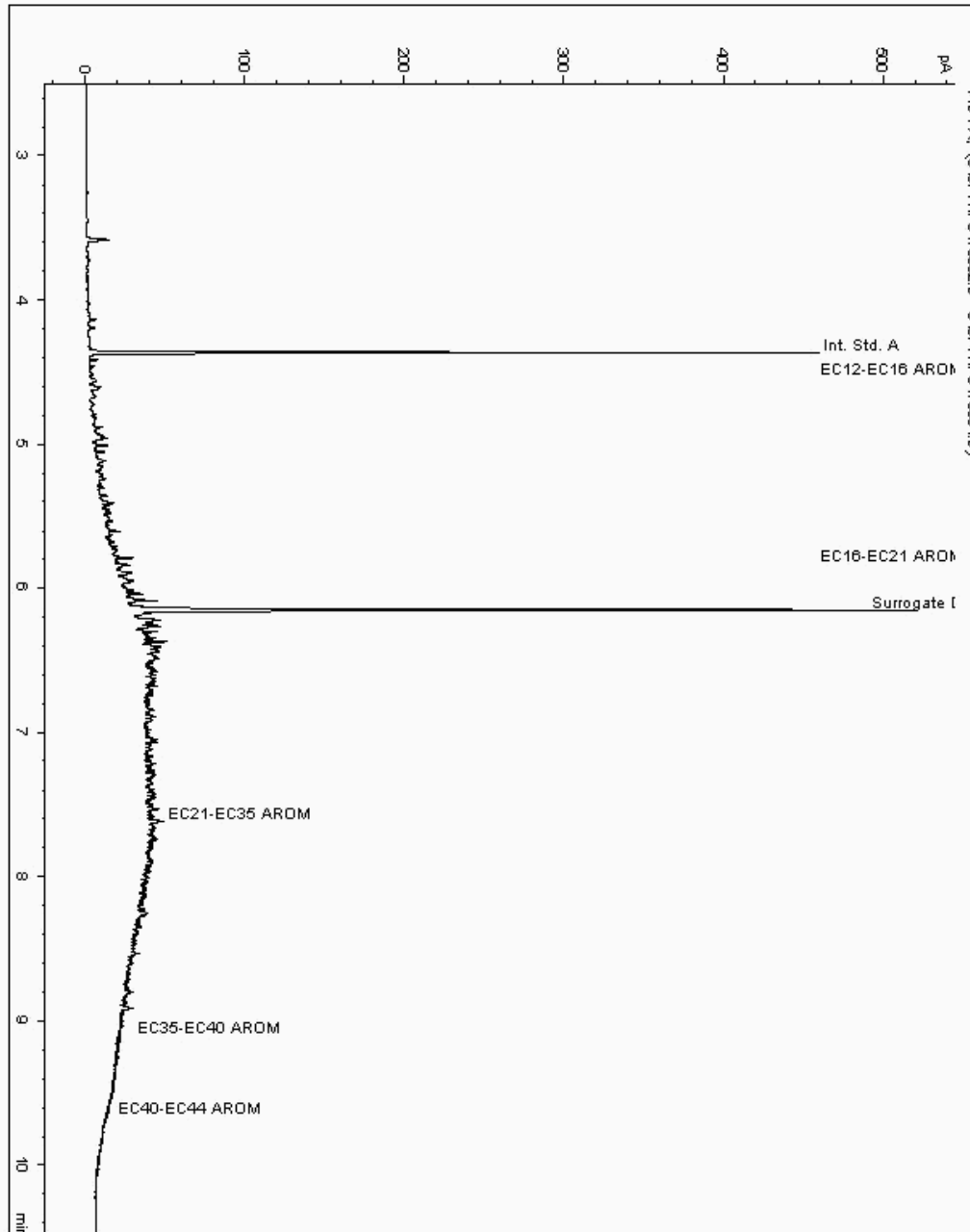
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3243455
Sample ID : CATP082

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272699-3243455
Date Acquired : 08/04/11 09:38:17 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

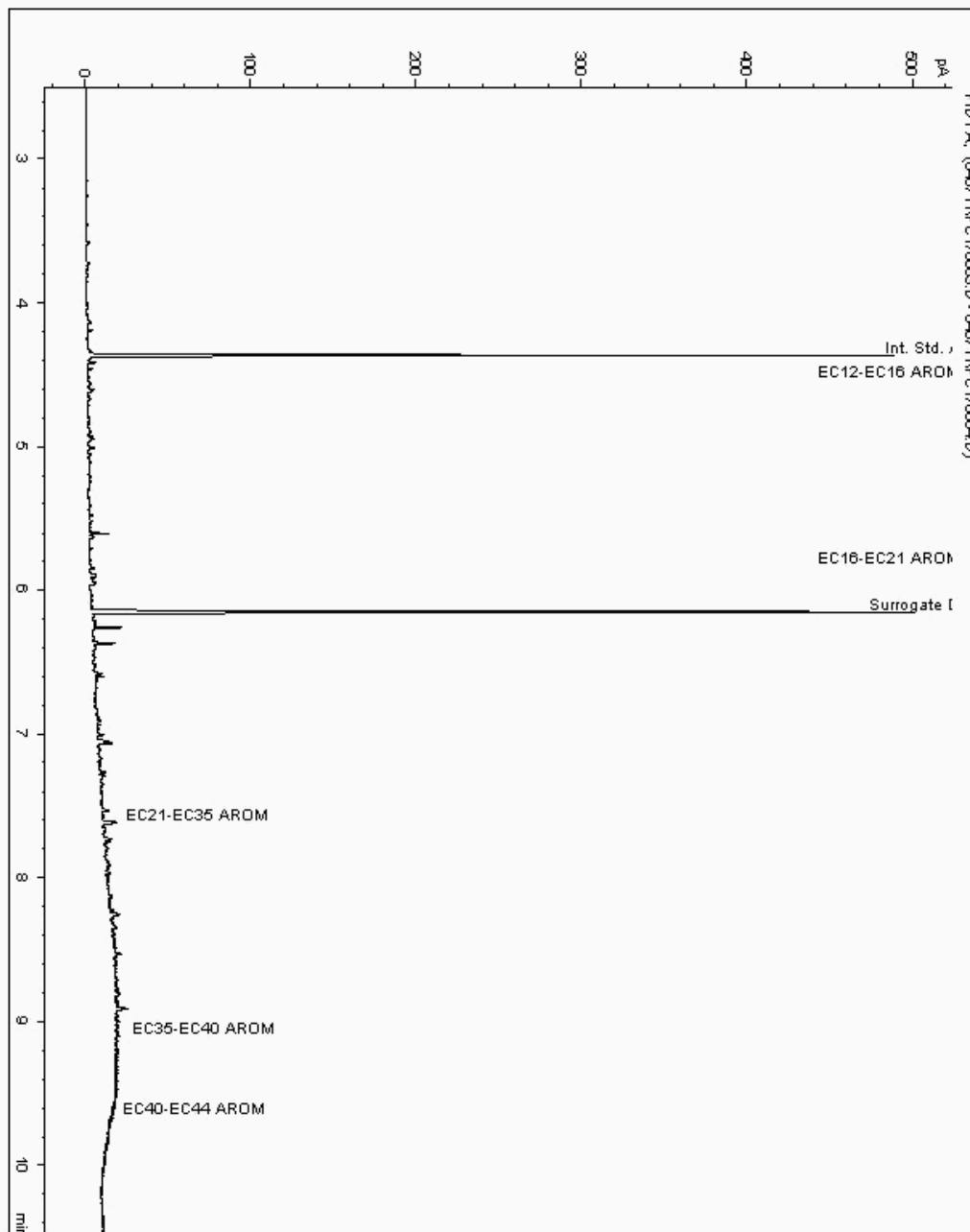
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3243645
Sample ID : CATP104

Depth : 0.30

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3271603-3243645
Date Acquired : 08/04/11 09:57:54 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

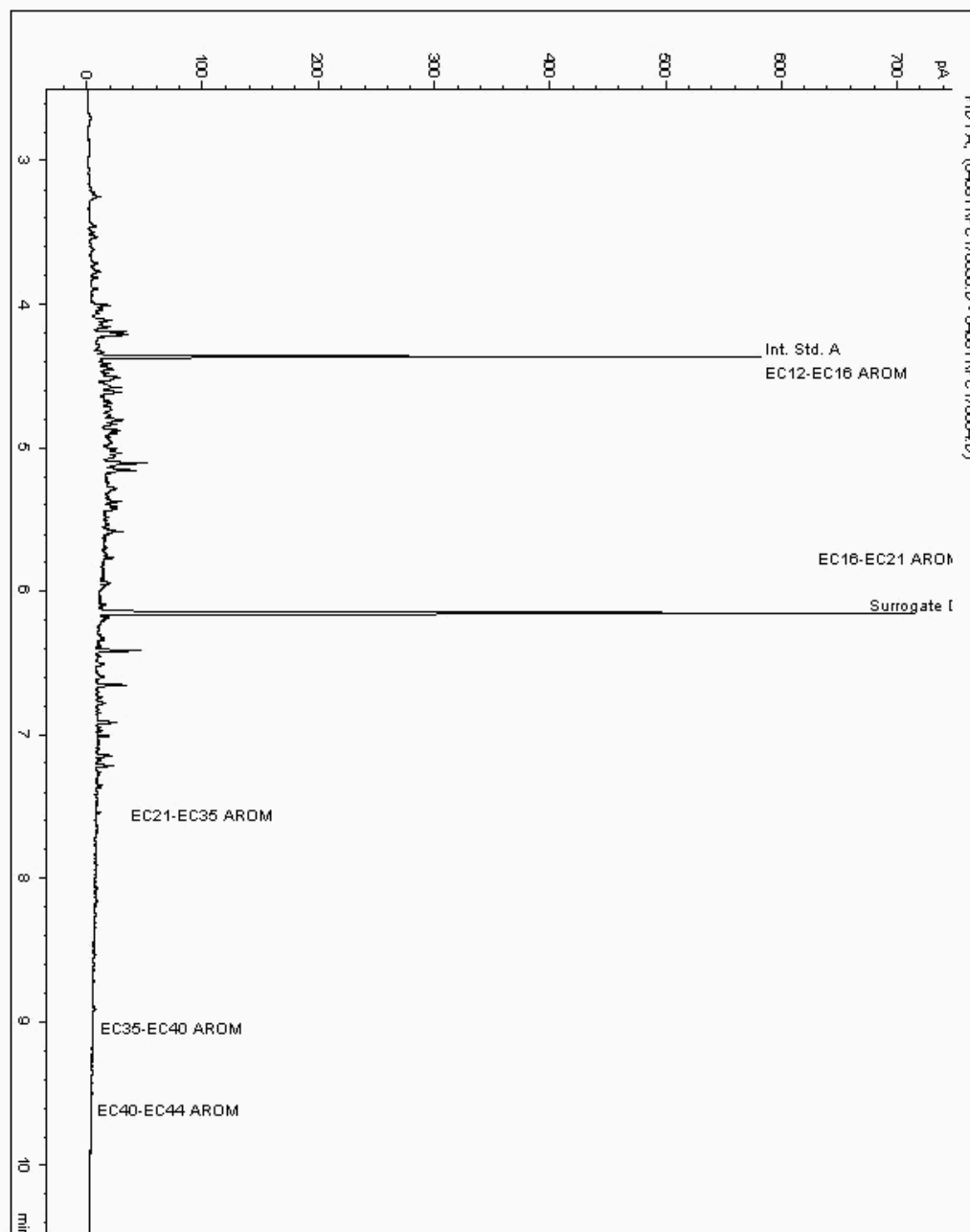
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3243662
Sample ID : CATP069

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272651-3243662
Date Acquired : 11/04/11 09:04:46 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 5.080





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

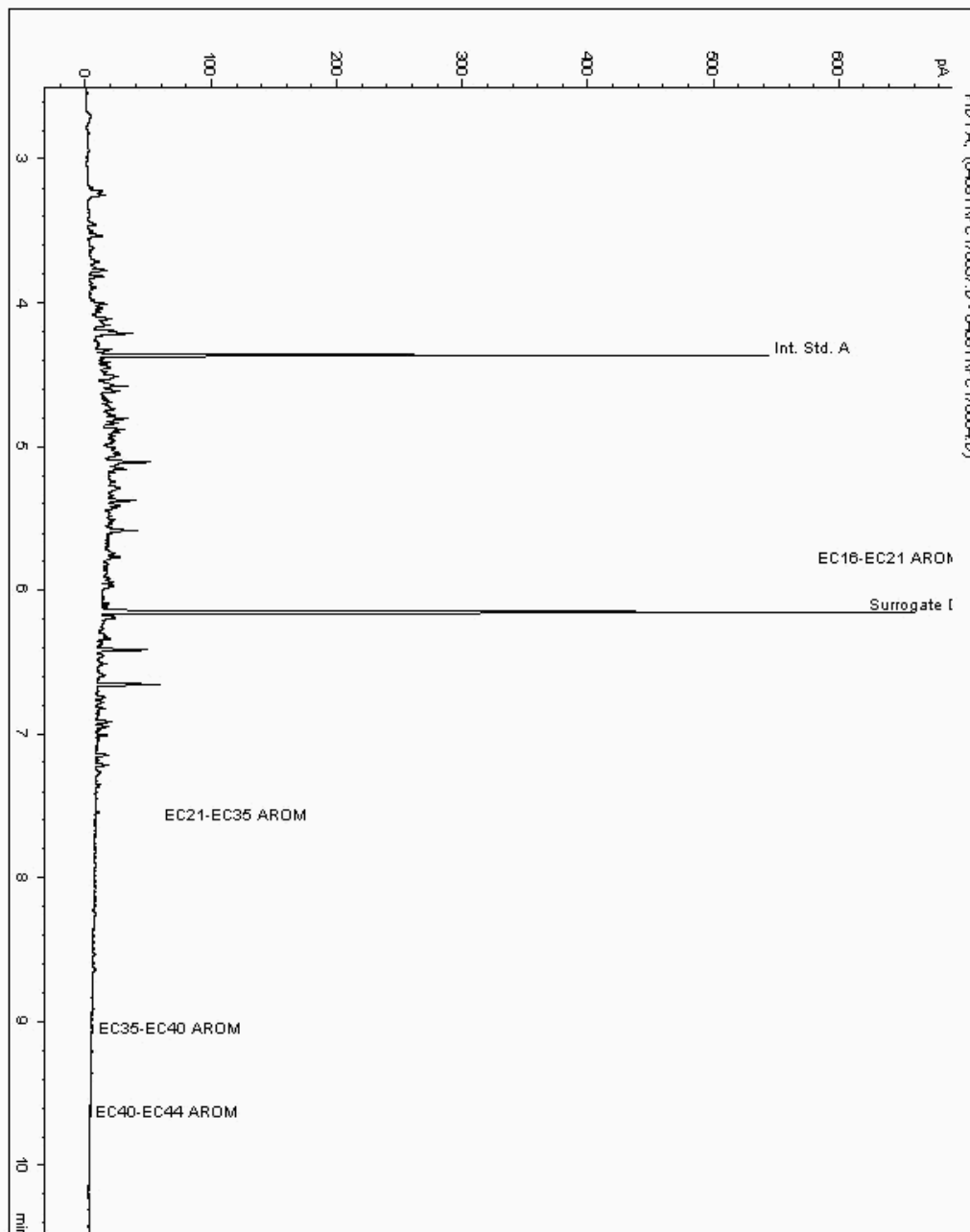
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3243906
Sample ID : CATP069

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272604-3243906
Date Acquired : 11/04/11 09:24:43 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 5.090





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

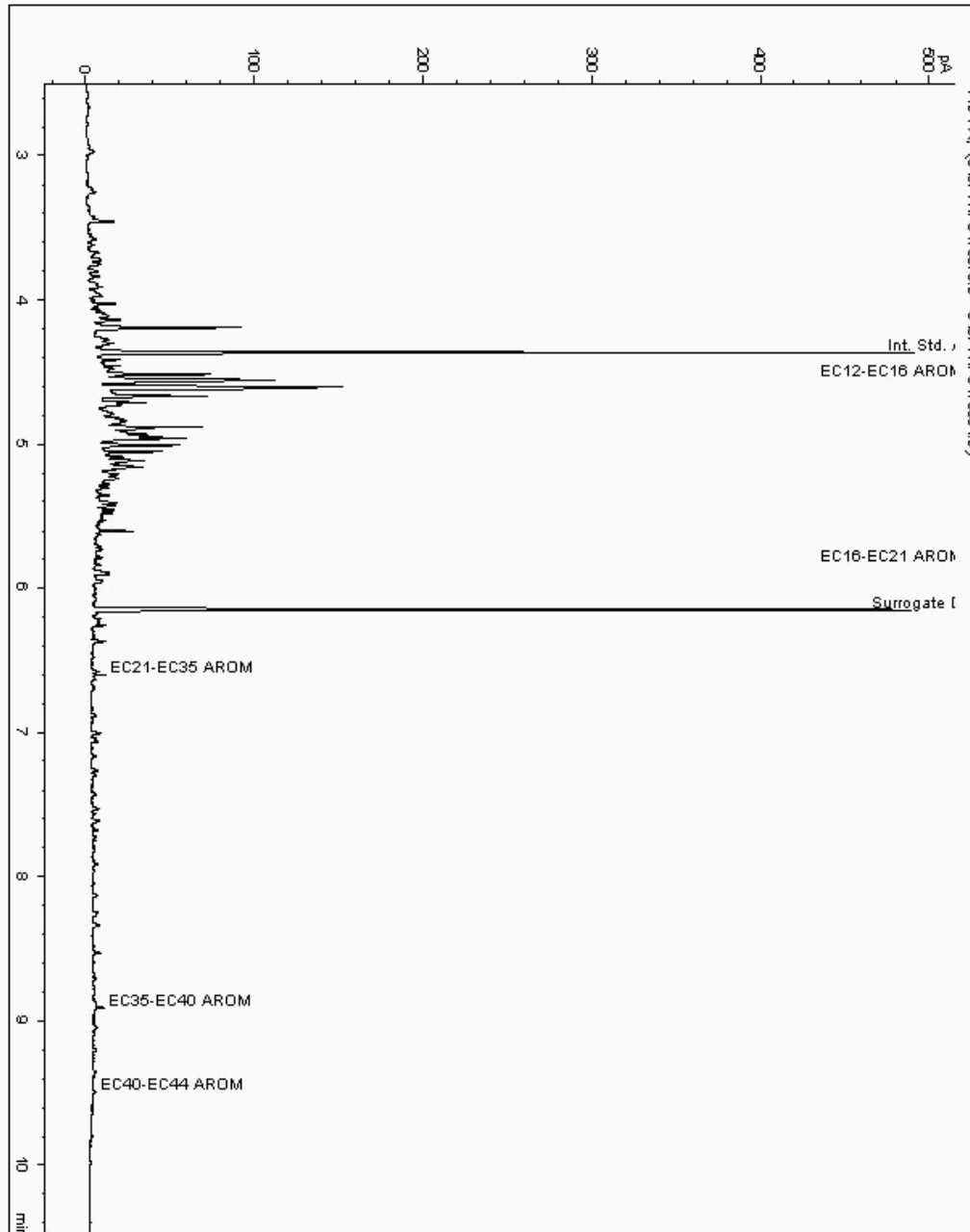
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3243952
Sample ID : CATP068

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272580-3243952
Date Acquired : 08/04/11 11:37:47 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

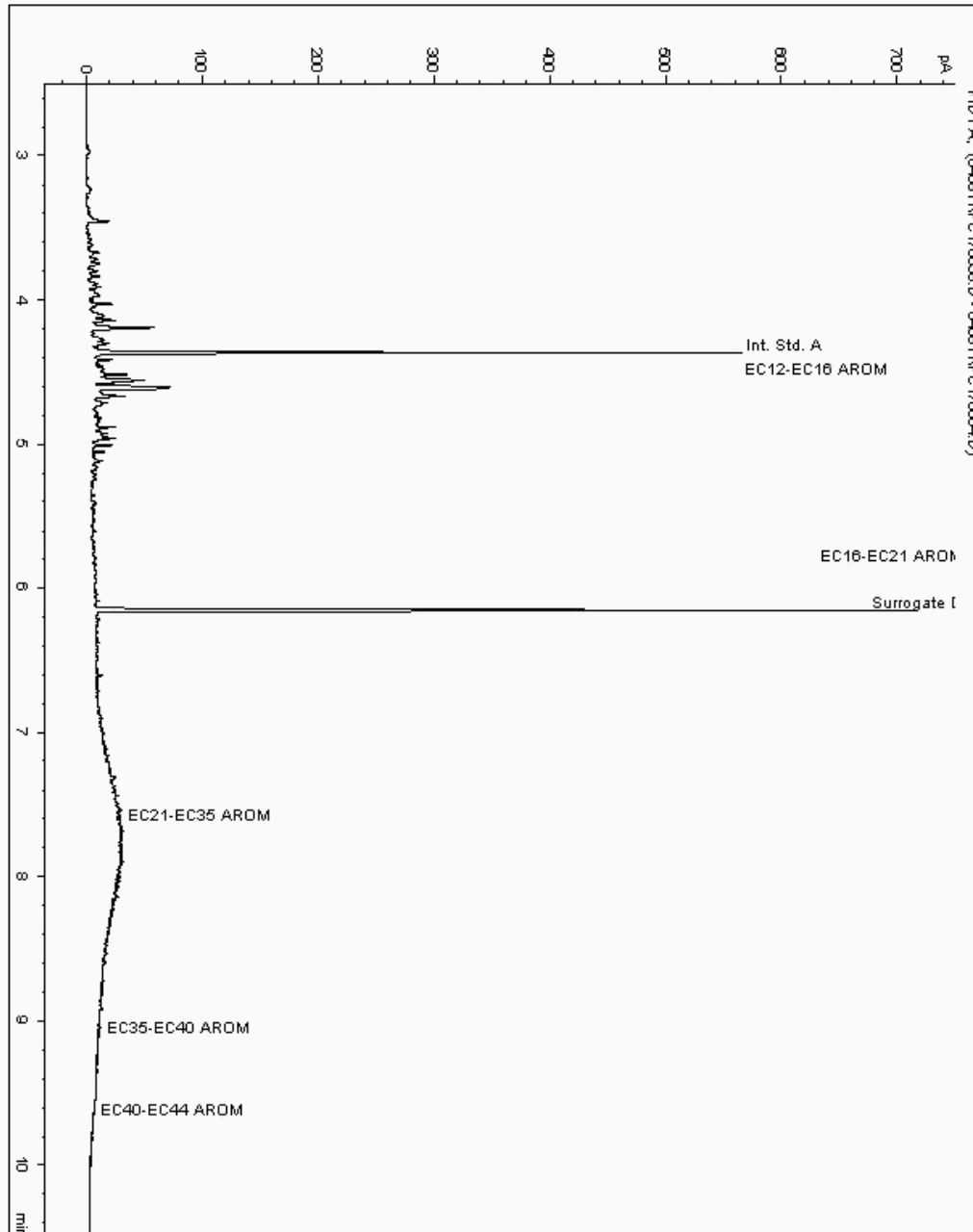
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244011
Sample ID : CATP104

Depth : 2.30

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3271704-3244011
Date Acquired : 11/04/11 09:44:35 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 4.900





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

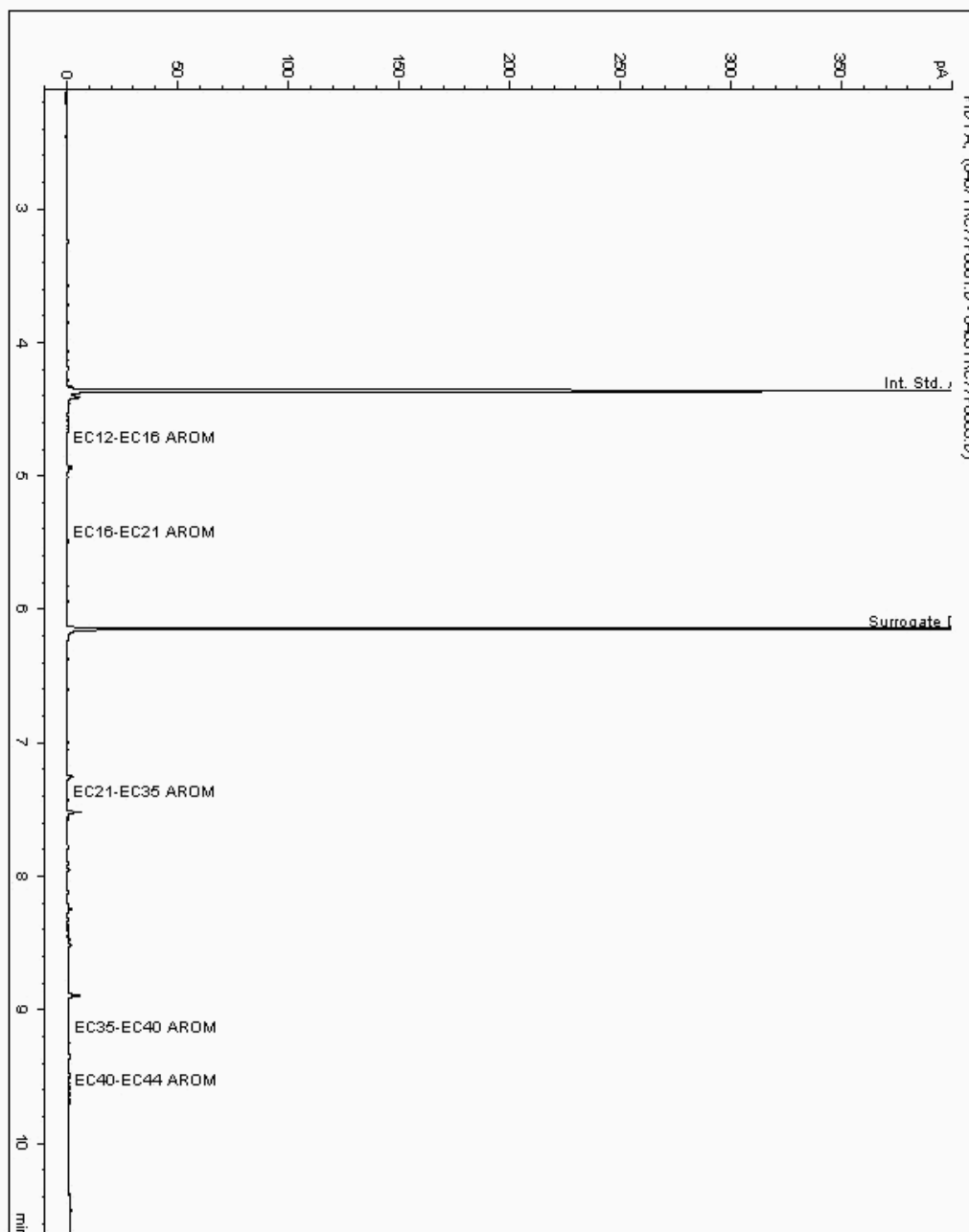
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244261
Sample ID : CATP079

Depth : 2.70

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272952-3244261
Date Acquired : 08/04/11 02:24:58 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

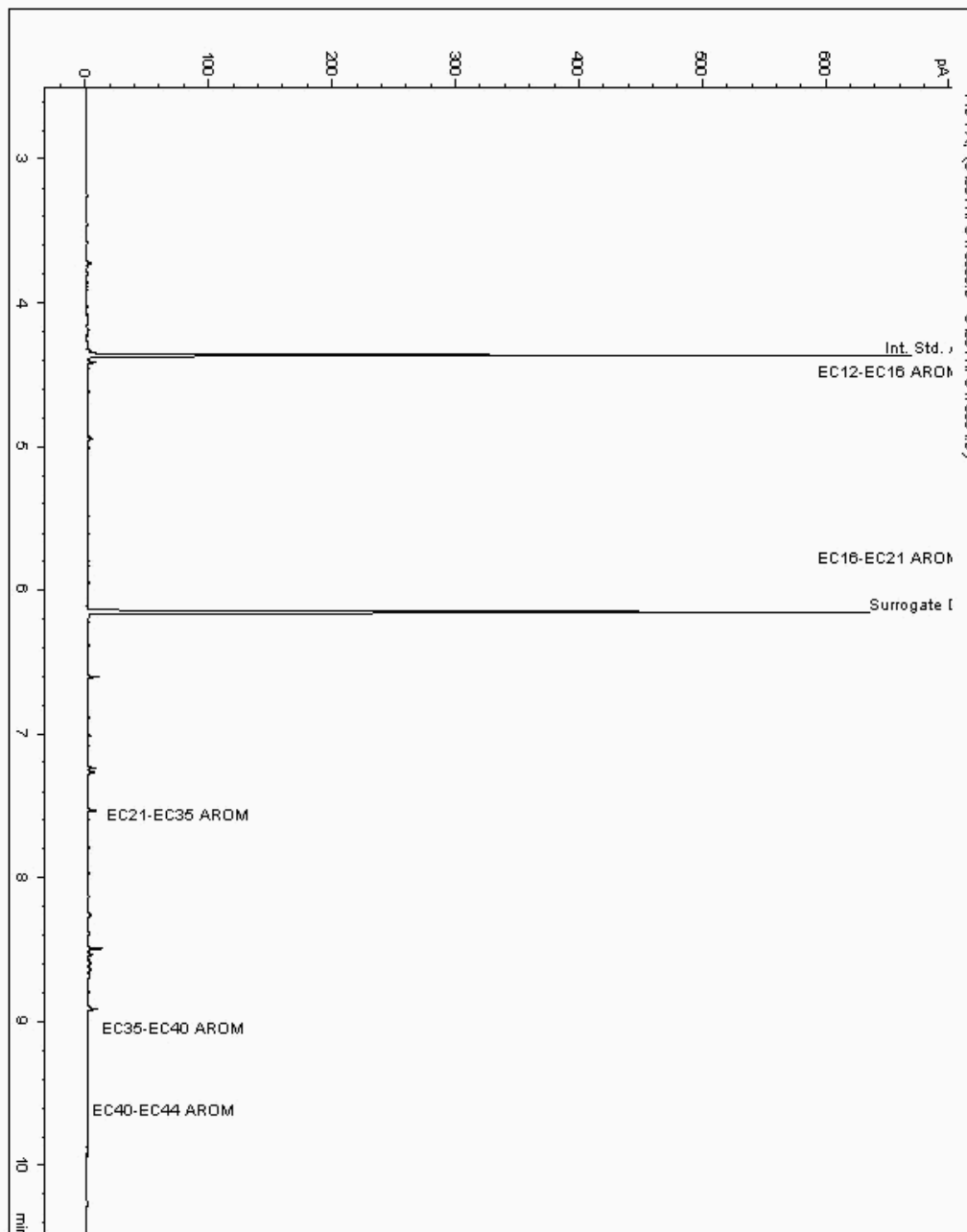
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244693
Sample ID : CATP079

Depth : 1.70

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272936-3244693
Date Acquired : 11/04/11 08:44:59 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

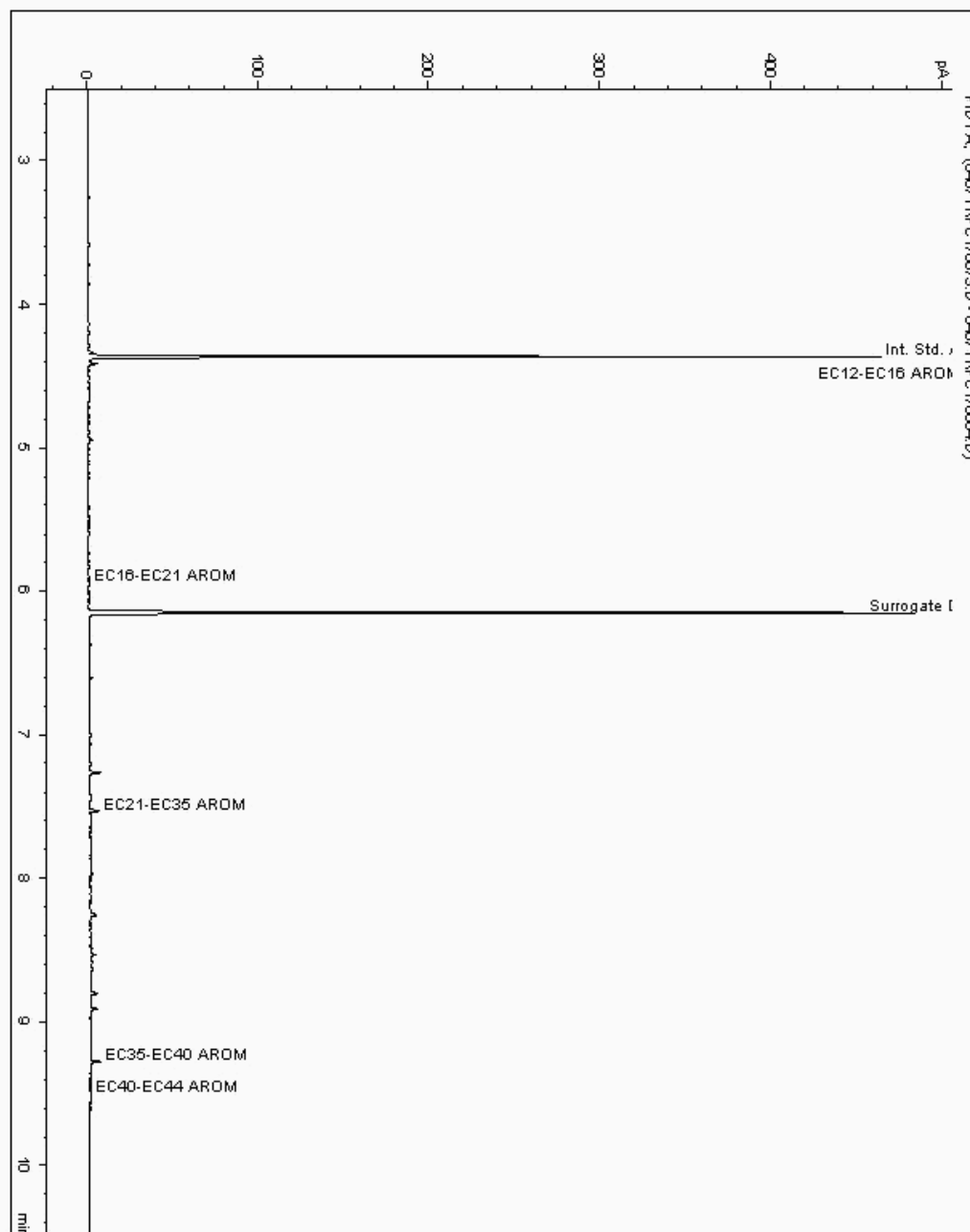
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244702
Sample ID : CATP078

Depth : 1.10

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272872-3244702
Date Acquired : 08/04/11 12:37:22 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

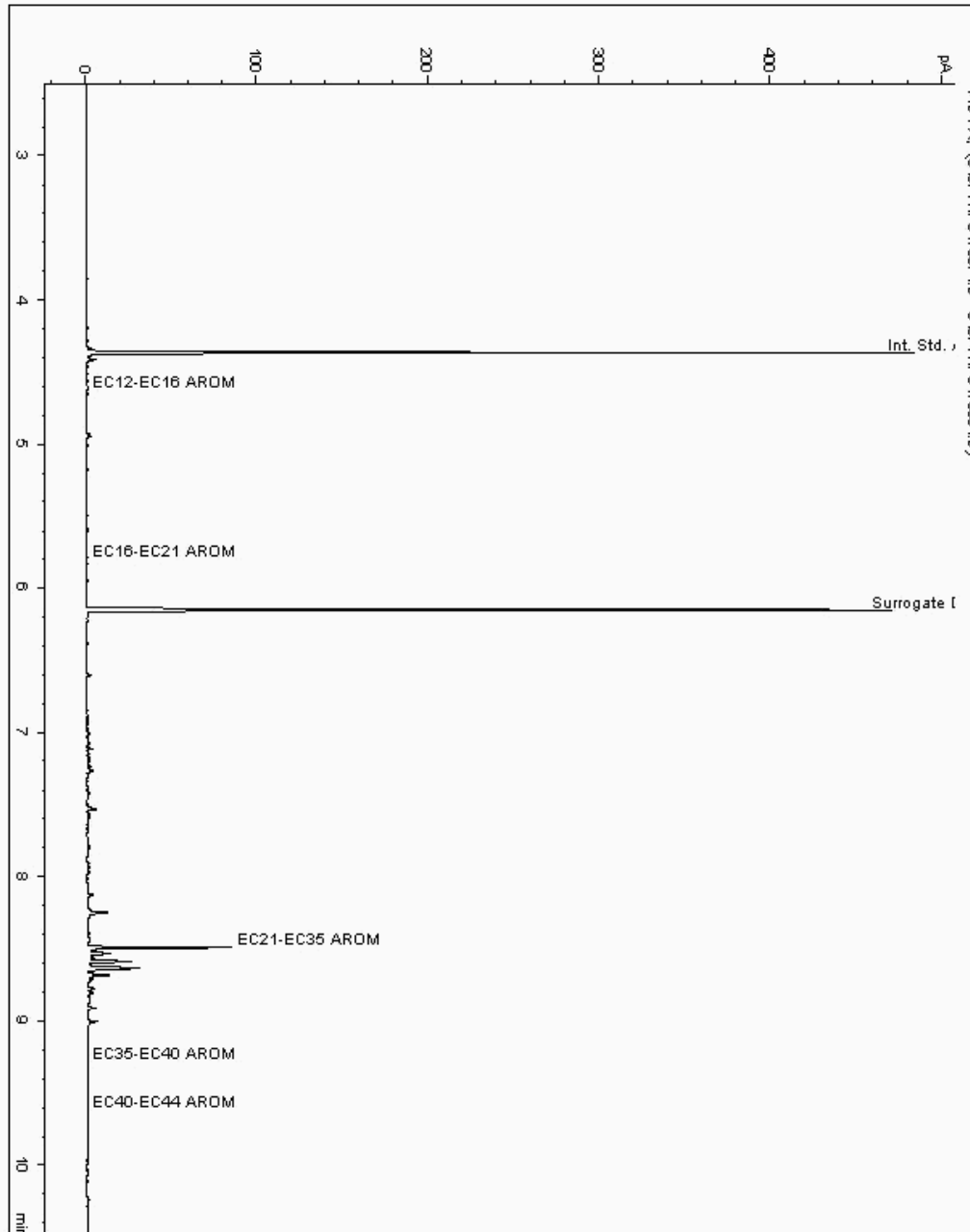
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244711
Sample ID : CATP082

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272732-3244711
Date Acquired : 08/04/11 12:57:09 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

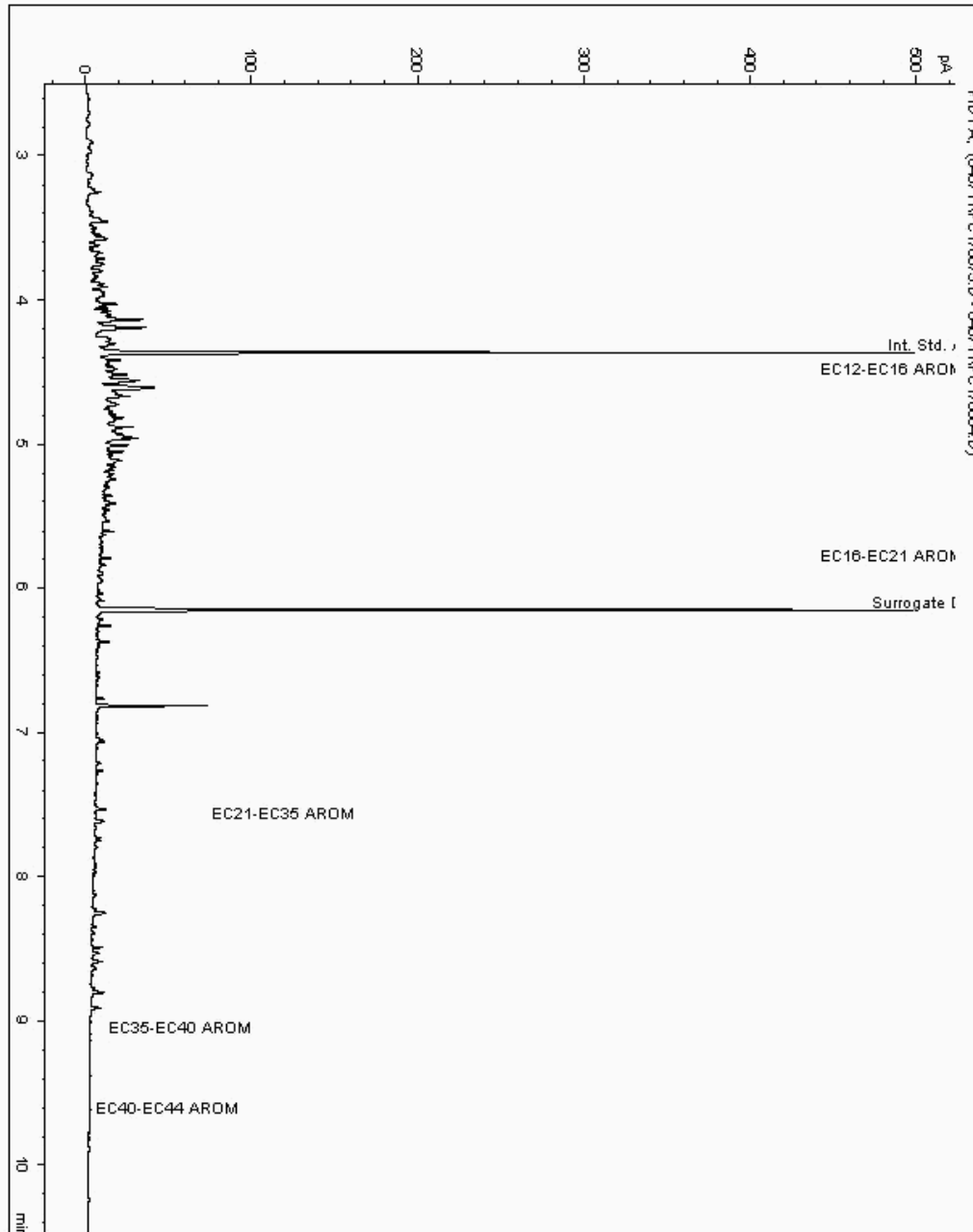
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244721
Sample ID : CATP072

Depth : 1.20

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272482-3244721
Date Acquired : 08/04/11 13:16:57 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.040





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

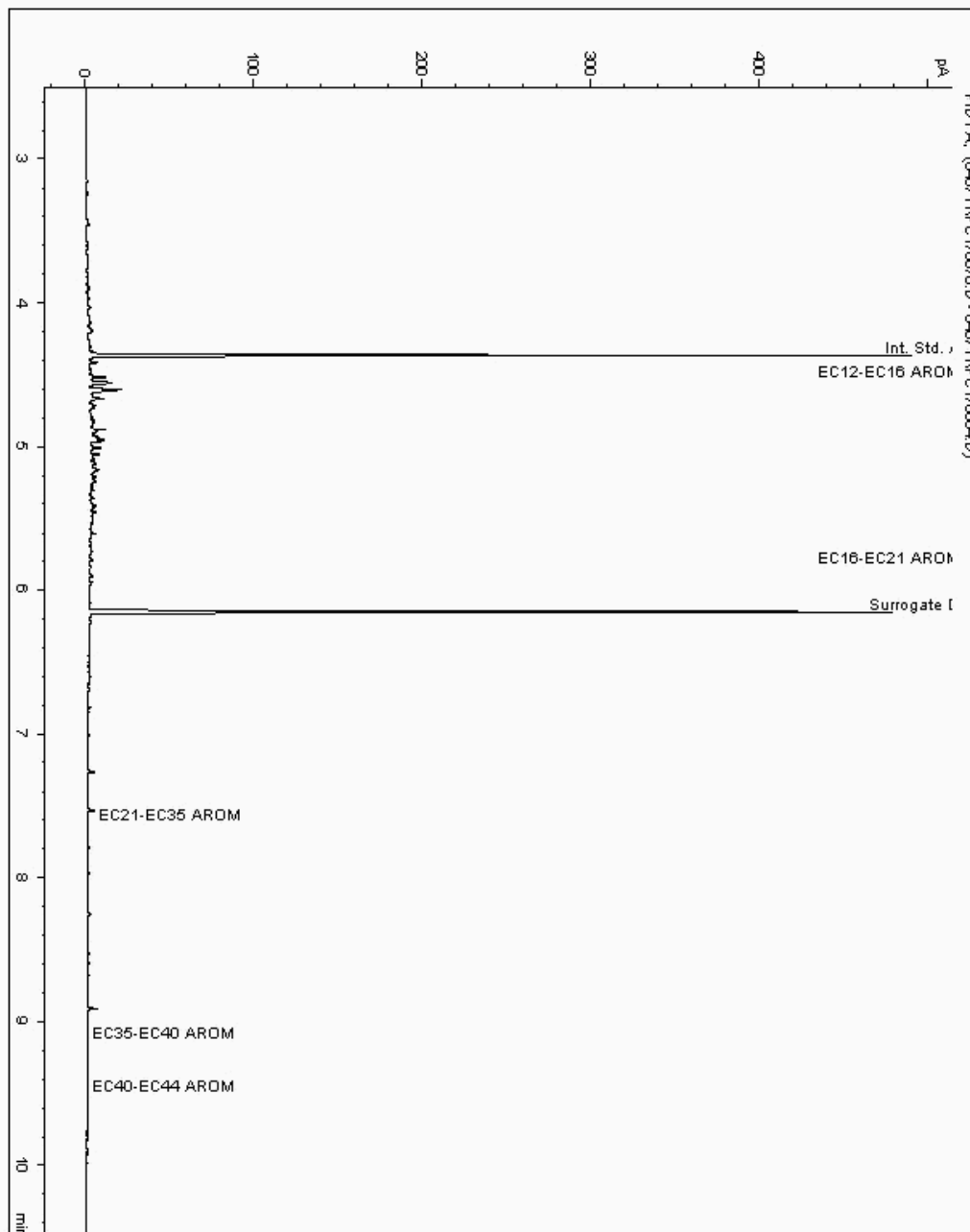
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244736
Sample ID : CATP074

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272854-3244736
Date Acquired : 08/04/11 13:36:48 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

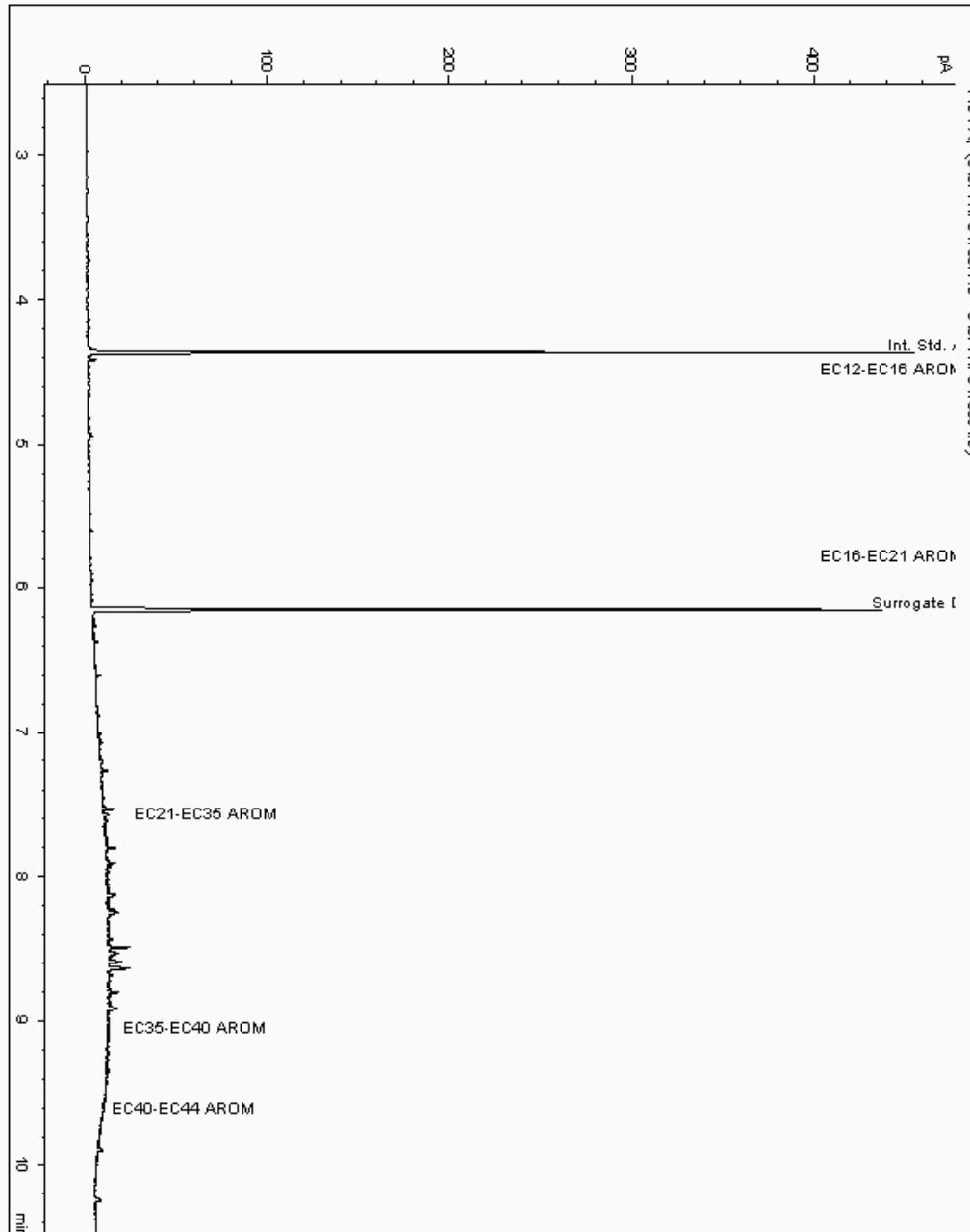
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244751
Sample ID : CATP074

Depth : 0.90

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272829-3244751
Date Acquired : 08/04/11 13:56:40 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

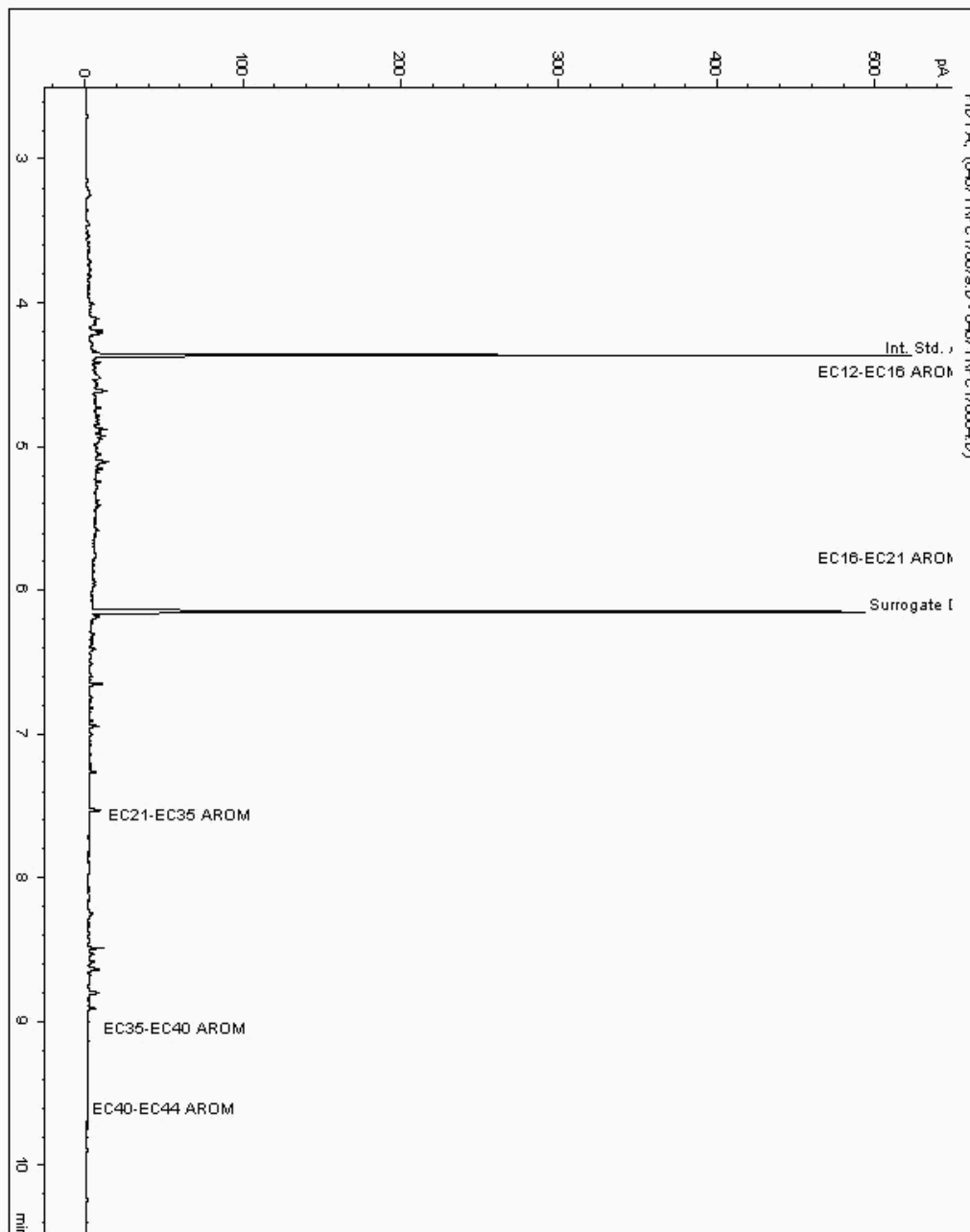
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244759
Sample ID : CATP073

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272381-3244759
Date Acquired : 08/04/11 14:26:56 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

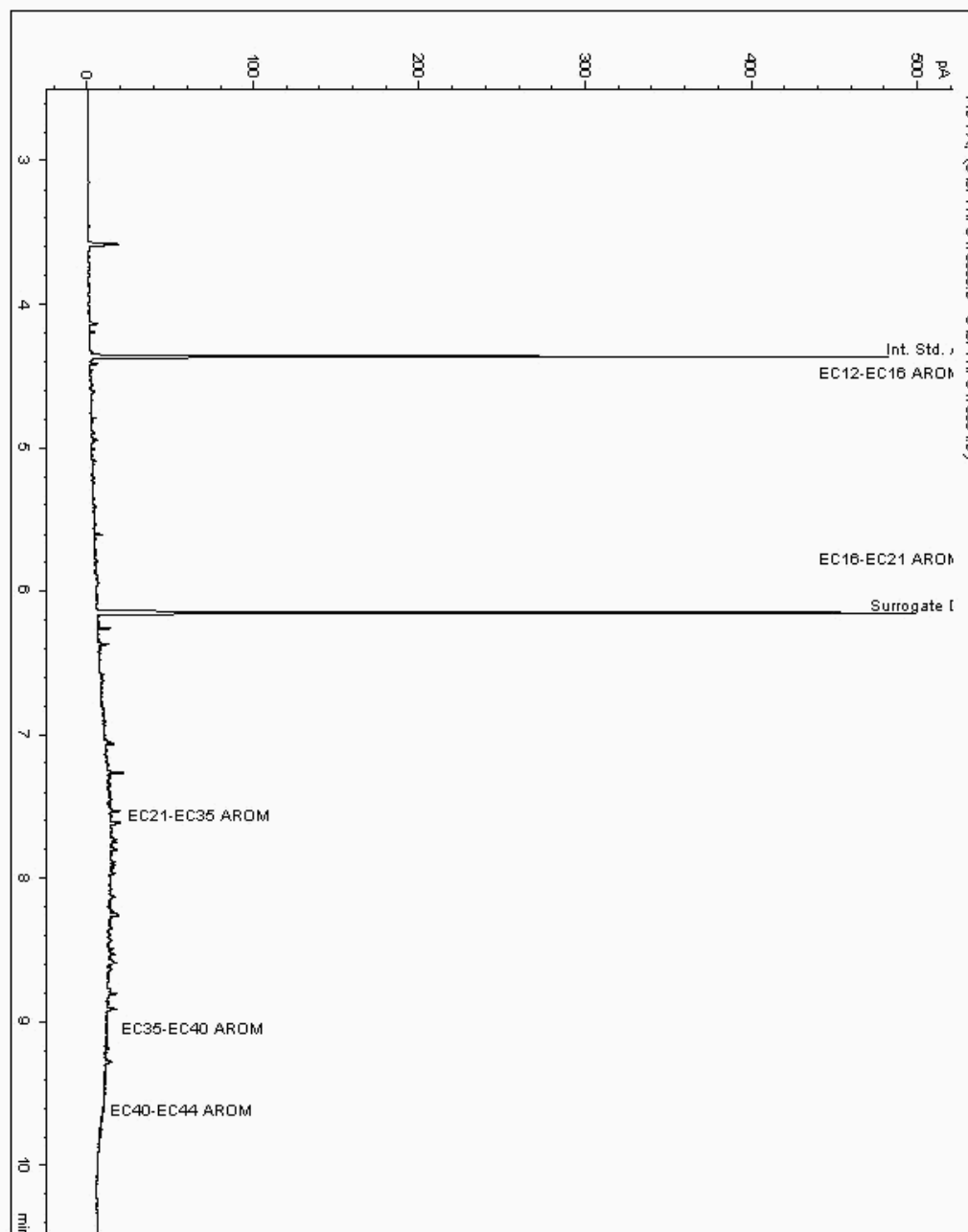
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244780
Sample ID : CATP077

Depth : 0.80

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272984-3244780
Date Acquired : 08/04/11 14:47:01 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

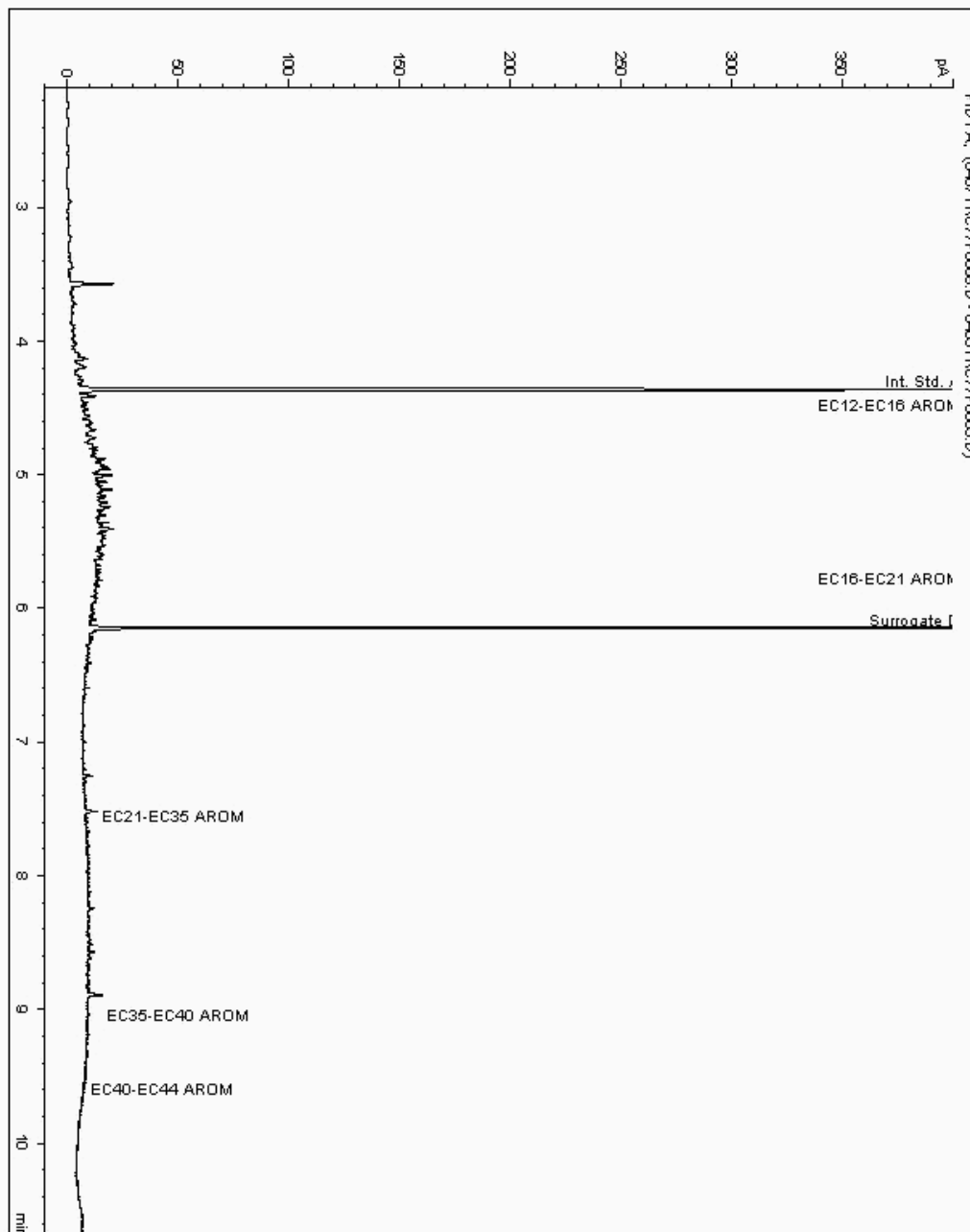
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244829
Sample ID : CATP078

Depth : 2.10

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272898-3244829
Date Acquired : 08/04/11 04:13:31 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

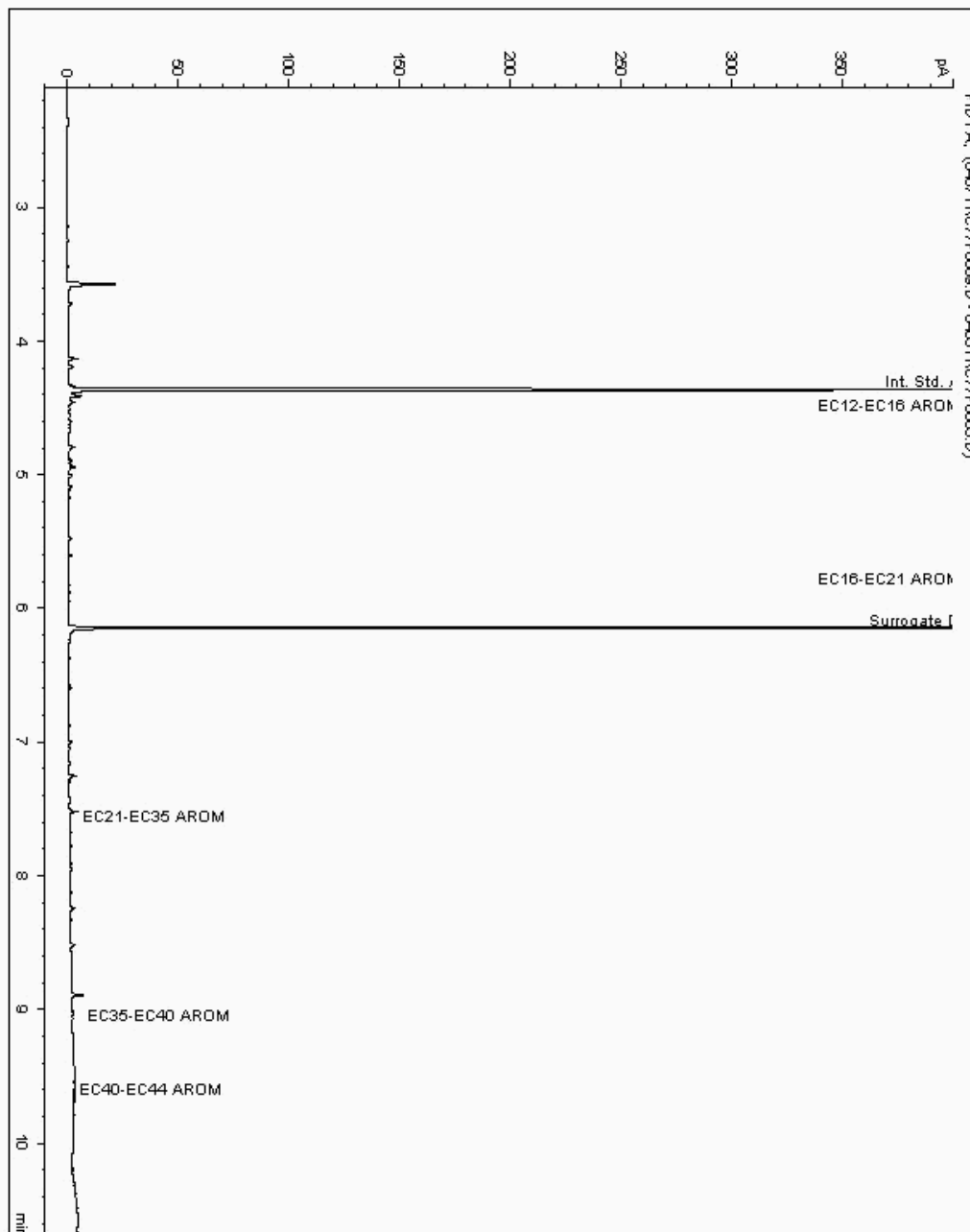
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244839
Sample ID : CATP077

Depth : 1.40

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3273030-3244839
Date Acquired : 08/04/11 04:33:23 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

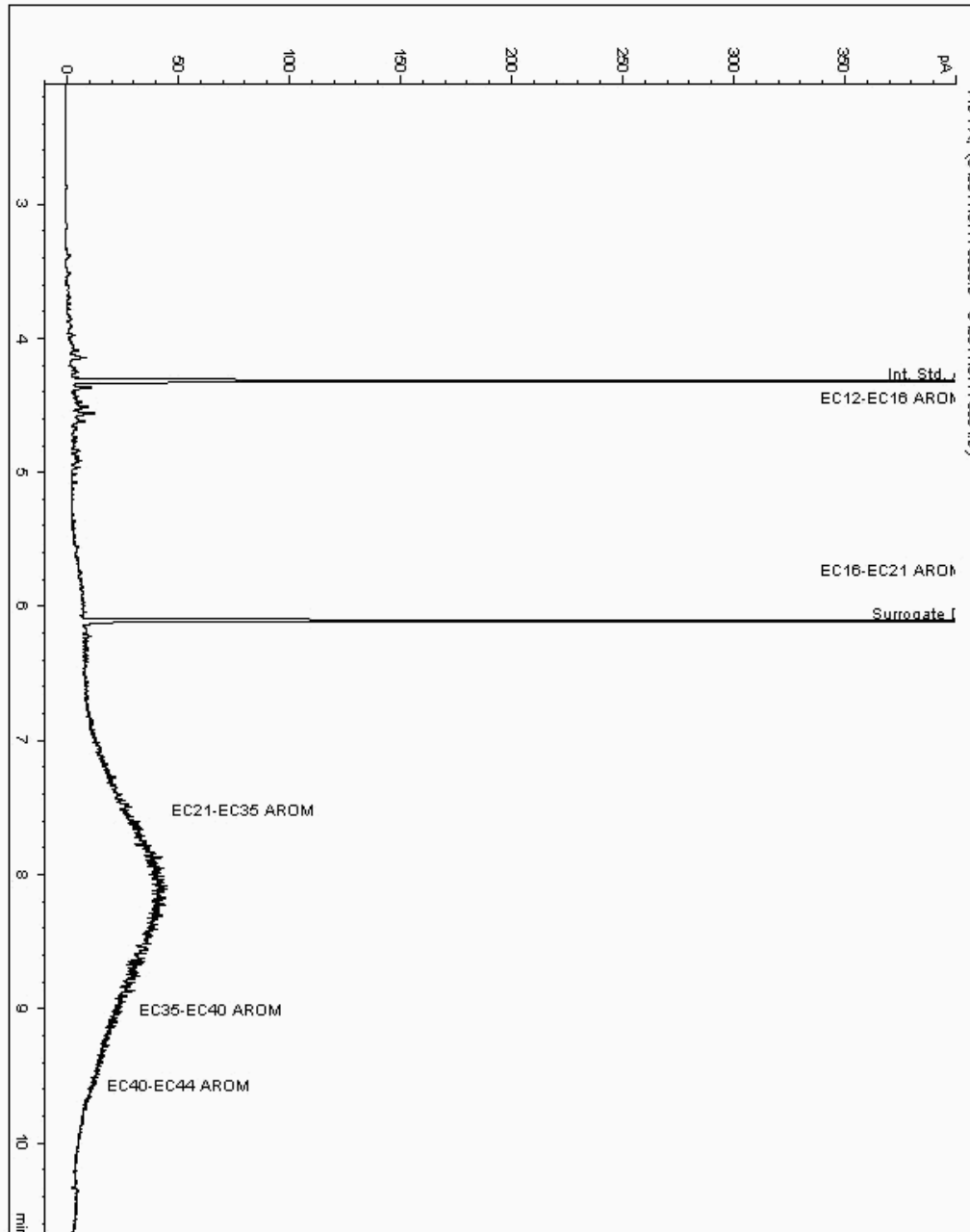
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244848
Sample ID : CATP104

Depth : 1.40

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3271668-3244848
Date Acquired : 08/04/11 23:27:42 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

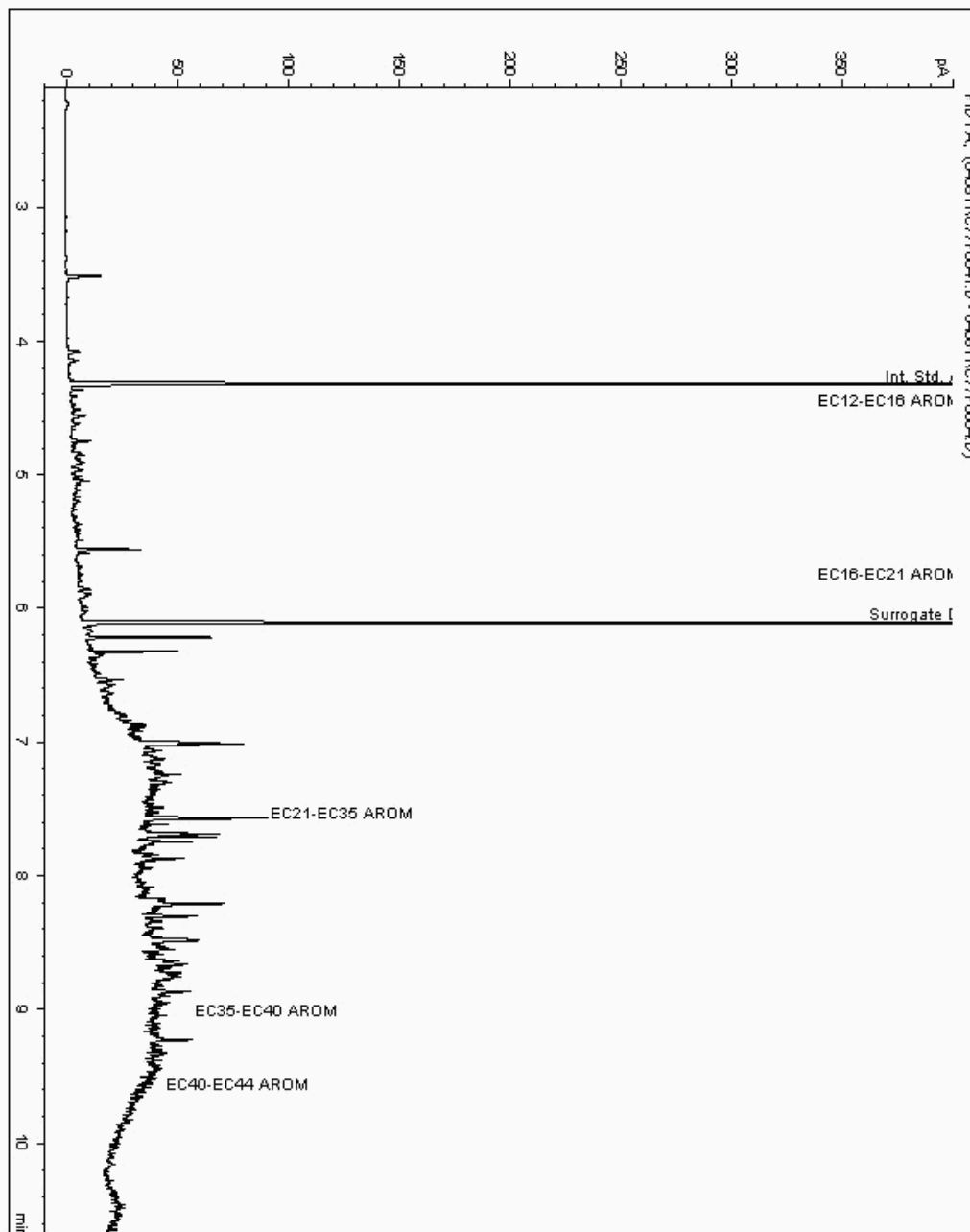
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3244966
Sample ID : CATP068

Depth : 0.60

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272522-3244966
Date Acquired : 09/04/11 01:36:44 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

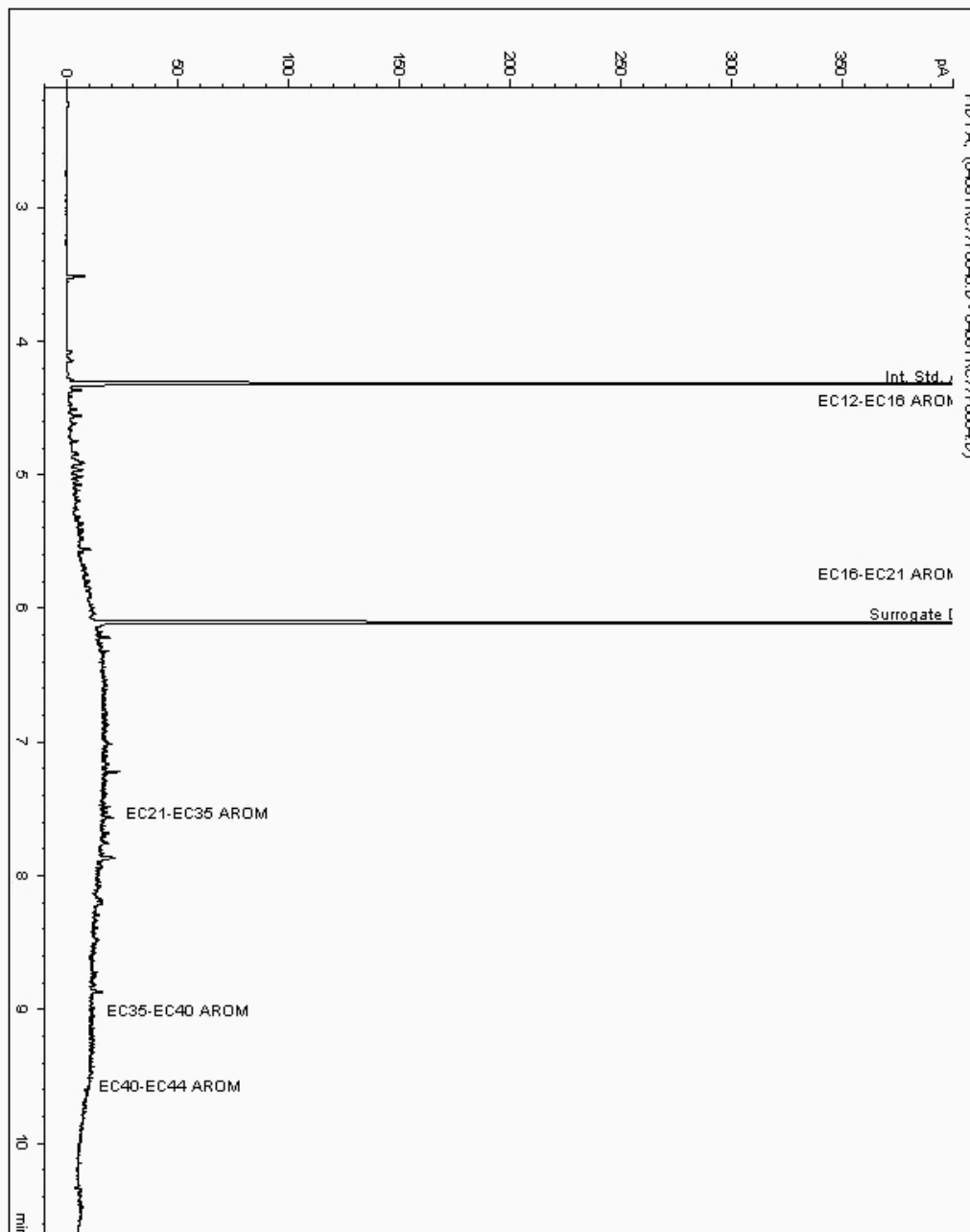
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3245004
Sample ID : CATP080

Depth : 0.80

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272245-3245004
Date Acquired : 09/04/11 02:36:05 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

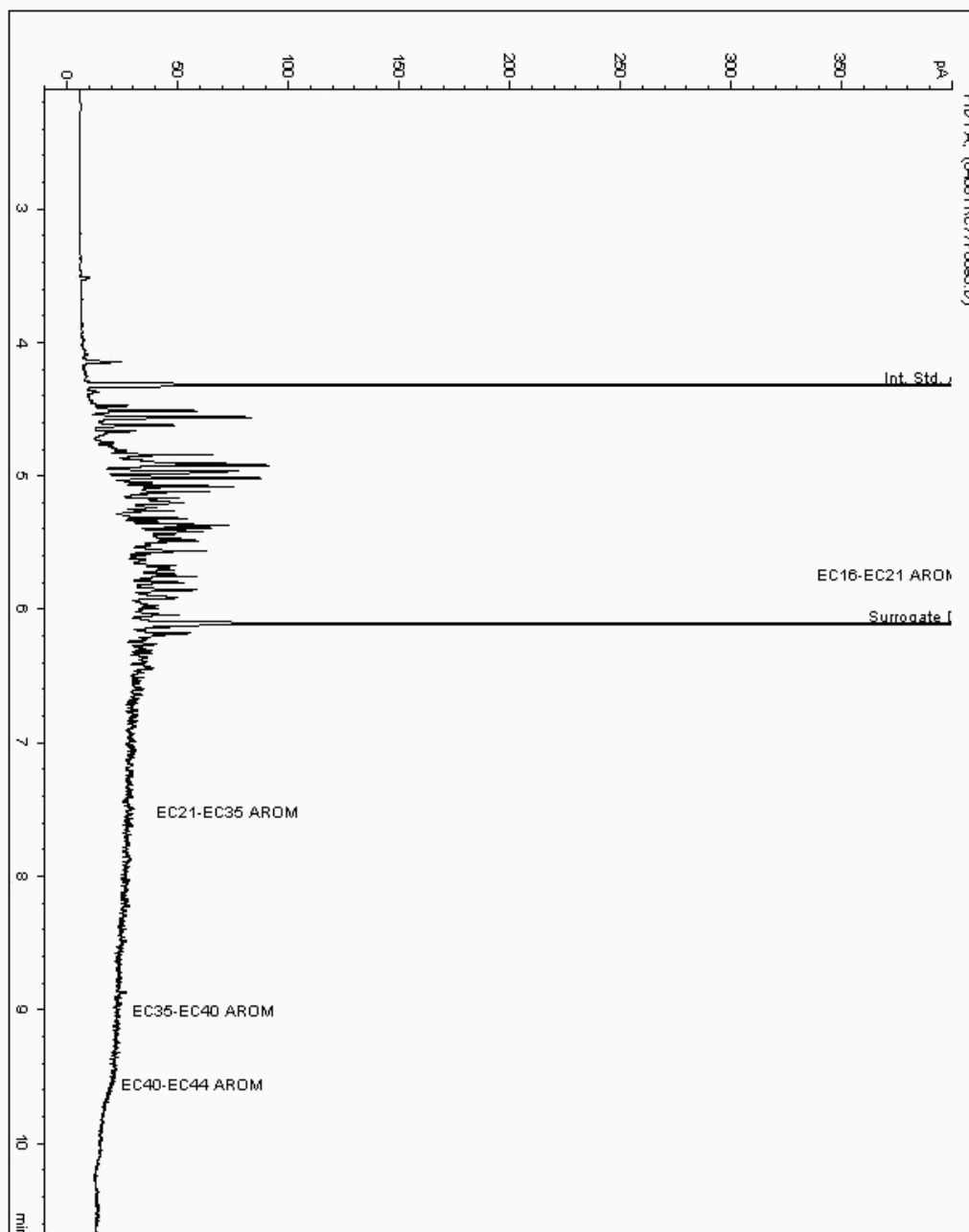
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3245040
Sample ID : CATP100

Depth : 1.20

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272067-3245040
Date Acquired : 11/04/11 11:18:58 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

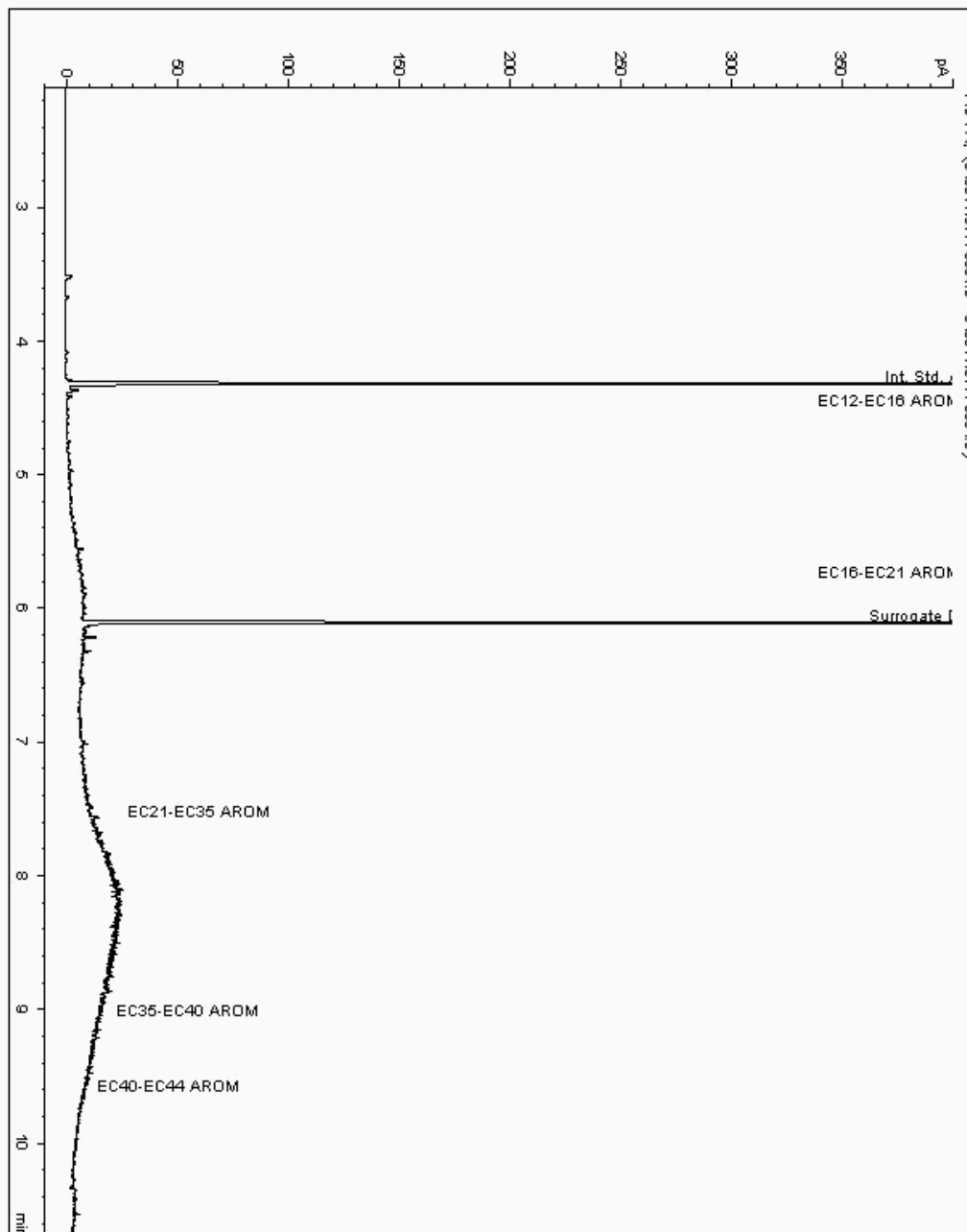
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3245072
Sample ID : CATP102

Depth : 1.60

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3271938-3245072
Date Acquired : 08/04/11 22:47:58 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

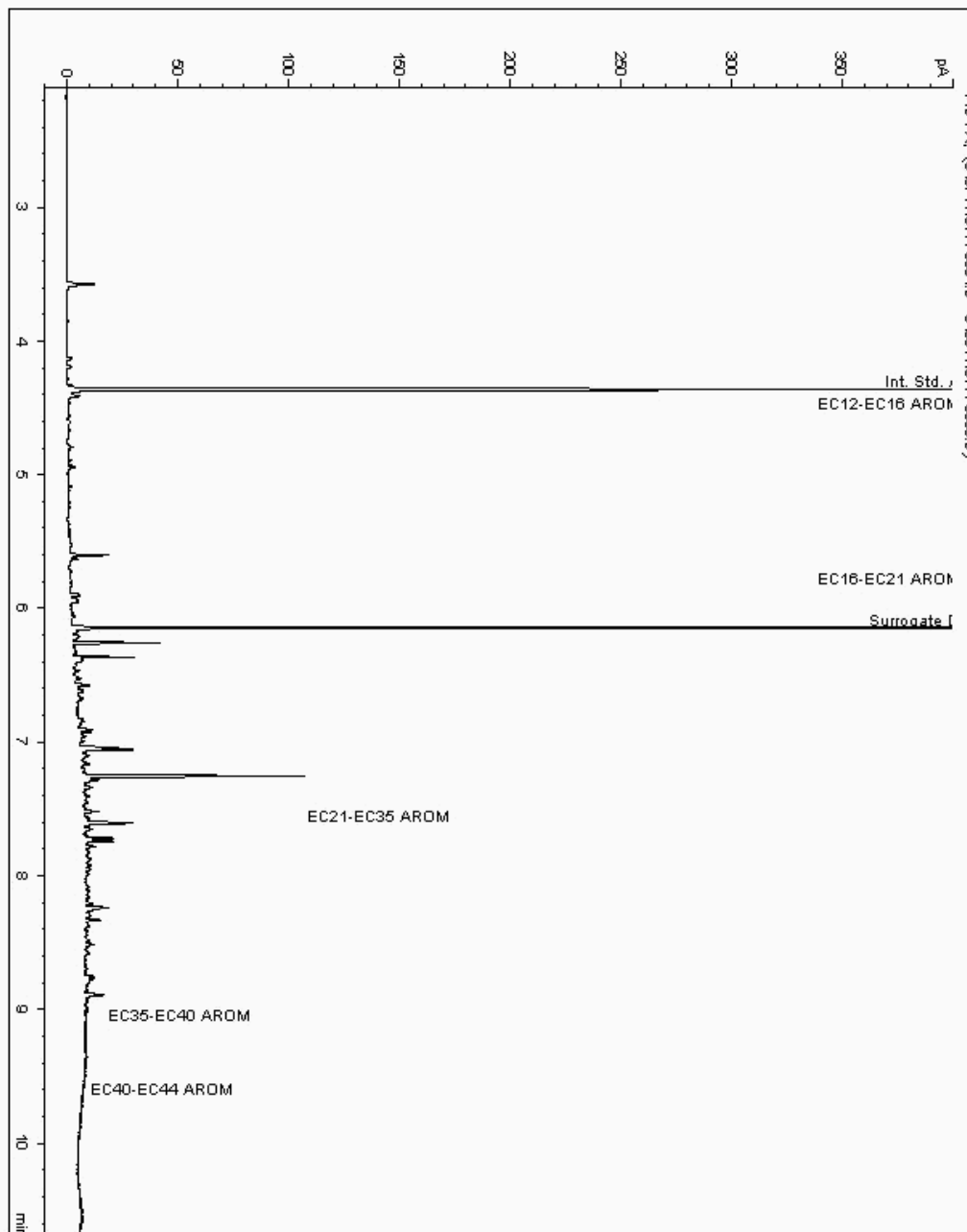
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3245092
Sample ID : CATP102

Depth : 0.90

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3271870-3245092
Date Acquired : 08/04/11 03:14:12 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

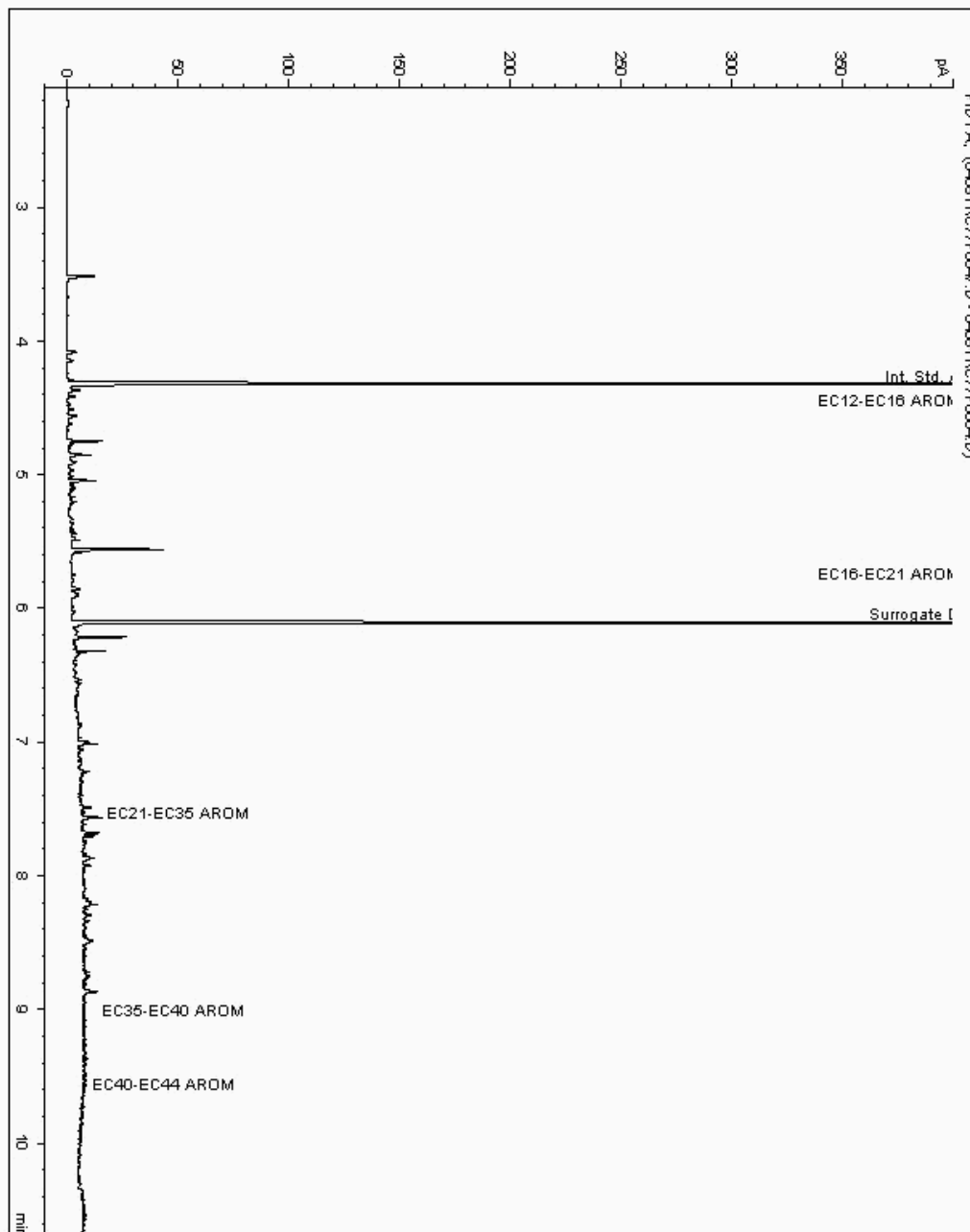
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3245262
Sample ID : CATP103

Depth : 0.80

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3271747-3245262
Date Acquired : 09/04/11 03:06:20 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

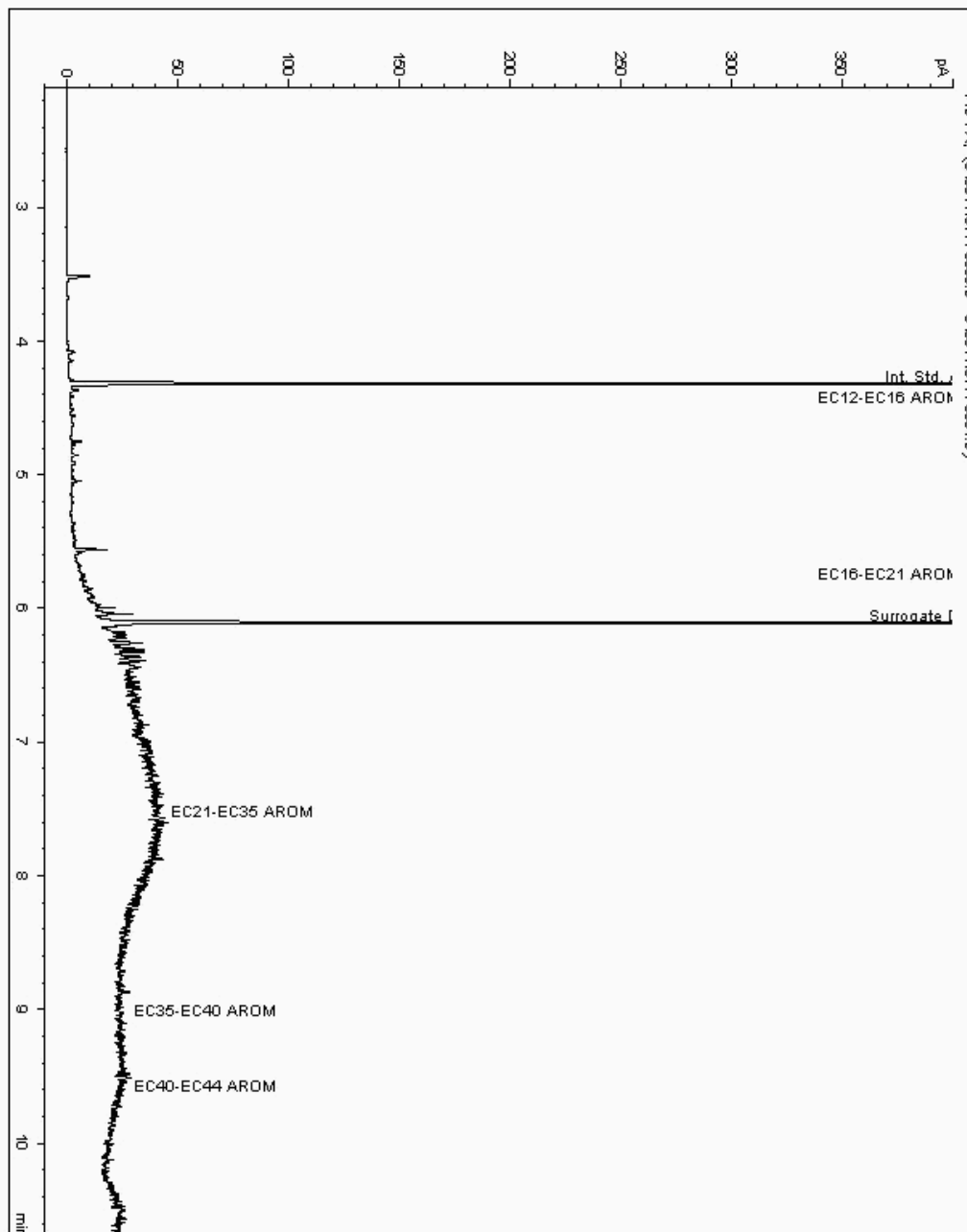
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3245313
Sample ID : CATP103

Depth : 1.60

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3271814-3245313
Date Acquired : 11/04/11 11:38:59 PM
Units : ppb
Dilution:





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

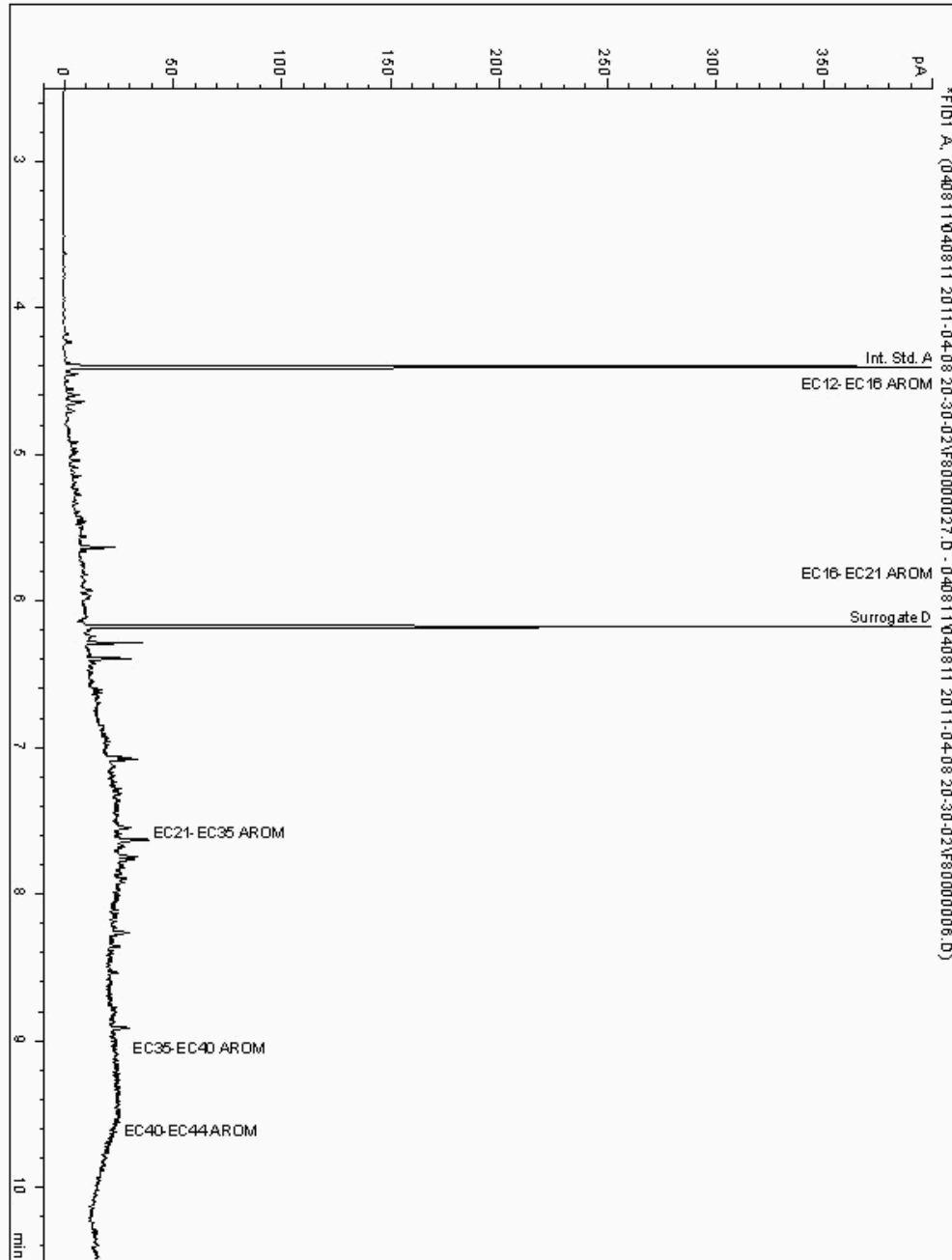
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3247107
Sample ID : CATP100

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3271993-3247107
Date Acquired : 08/04/11 18:30:23
Units : ppb
Dilution :
CF : 1
Multiplier : 1.020





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

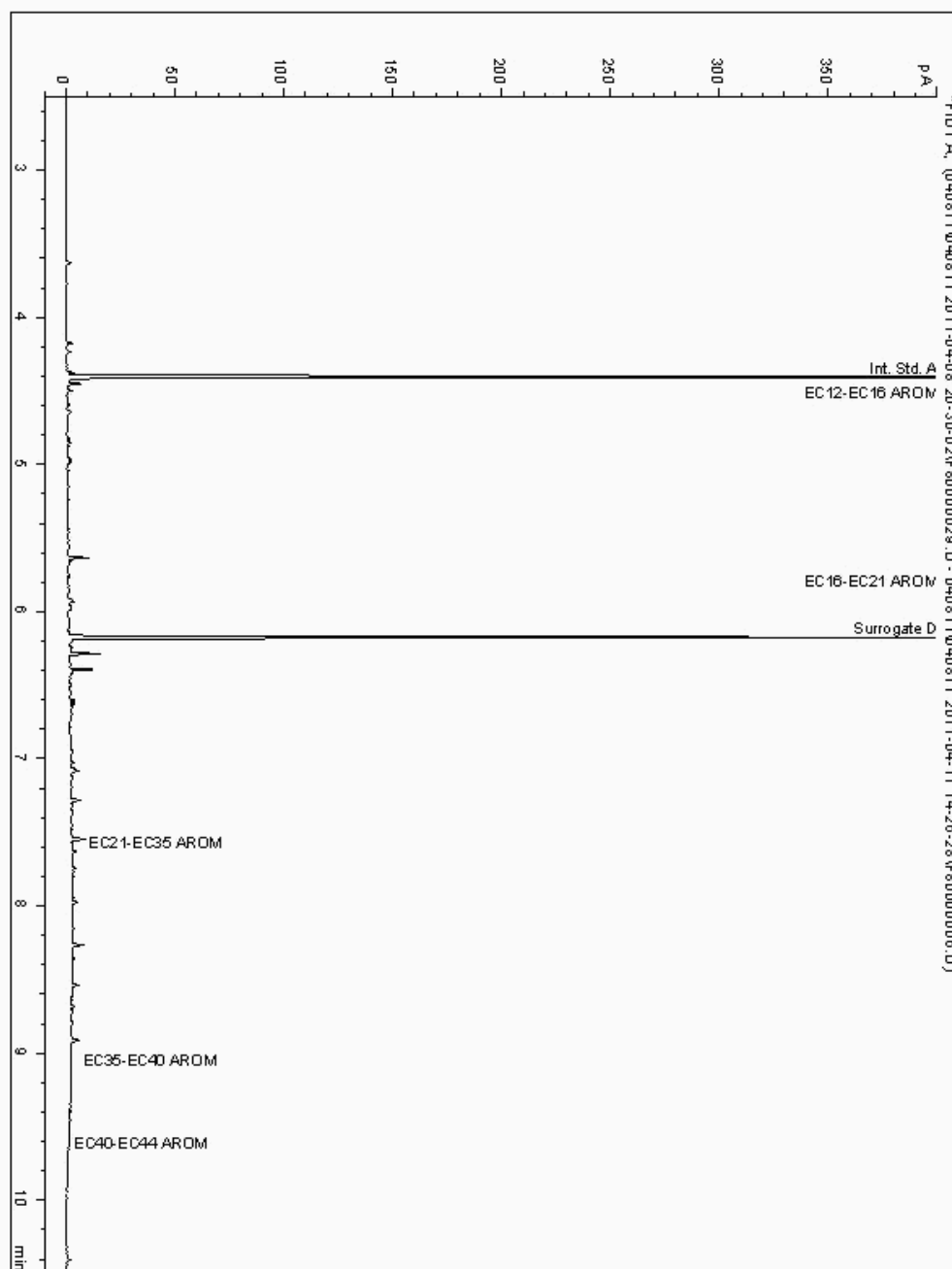
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3247121
Sample ID : CATP101

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272139-3247121
Date Acquired : 08/04/11 19:02:33
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

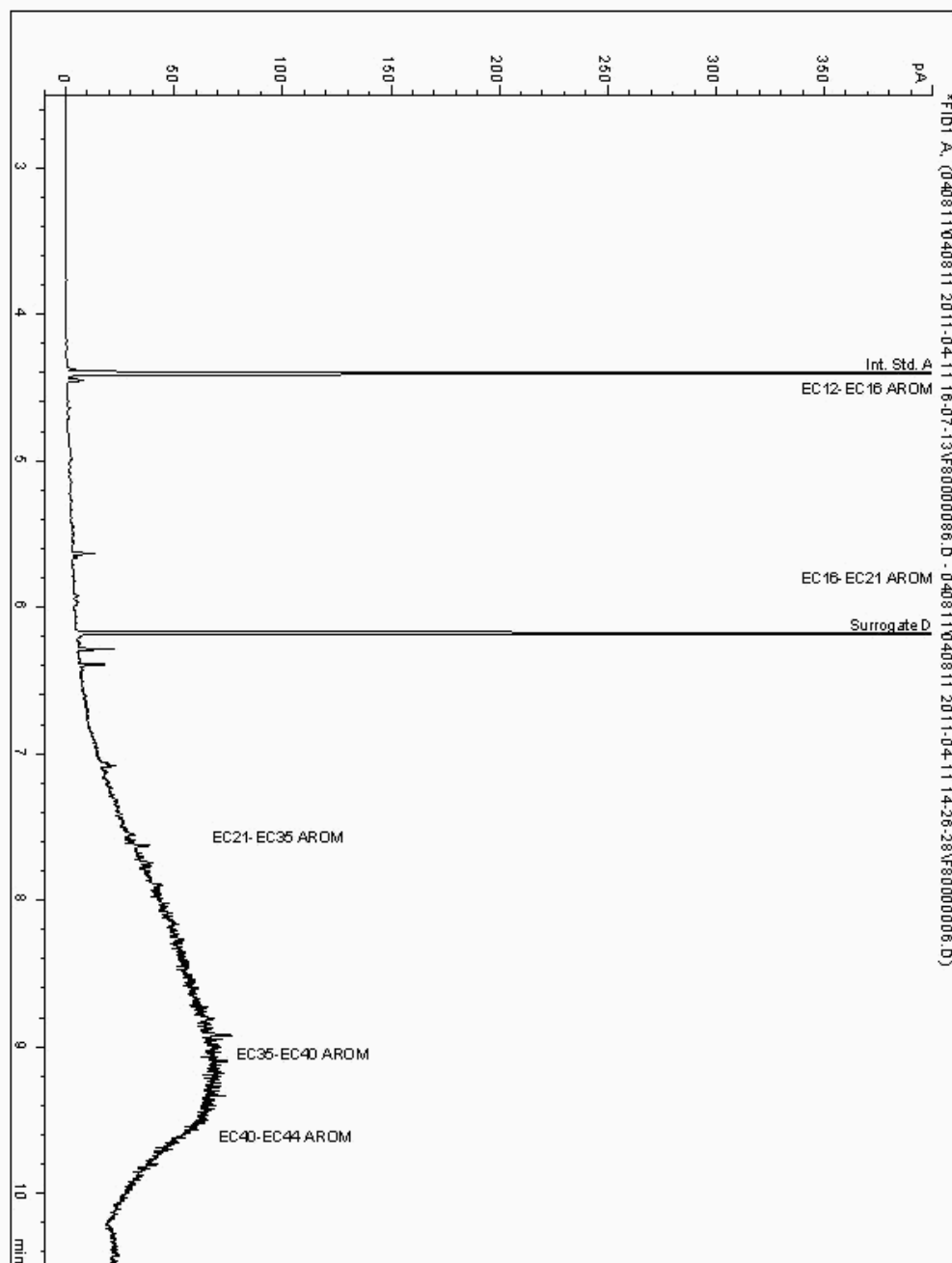
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3247126
Sample ID : CATP101

Depth : 1.00

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272193-3247126
Date Acquired : 11/04/11 16:10:57
Units : ppb
Dilution :
CF : 1
Multiplier : 5.000





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

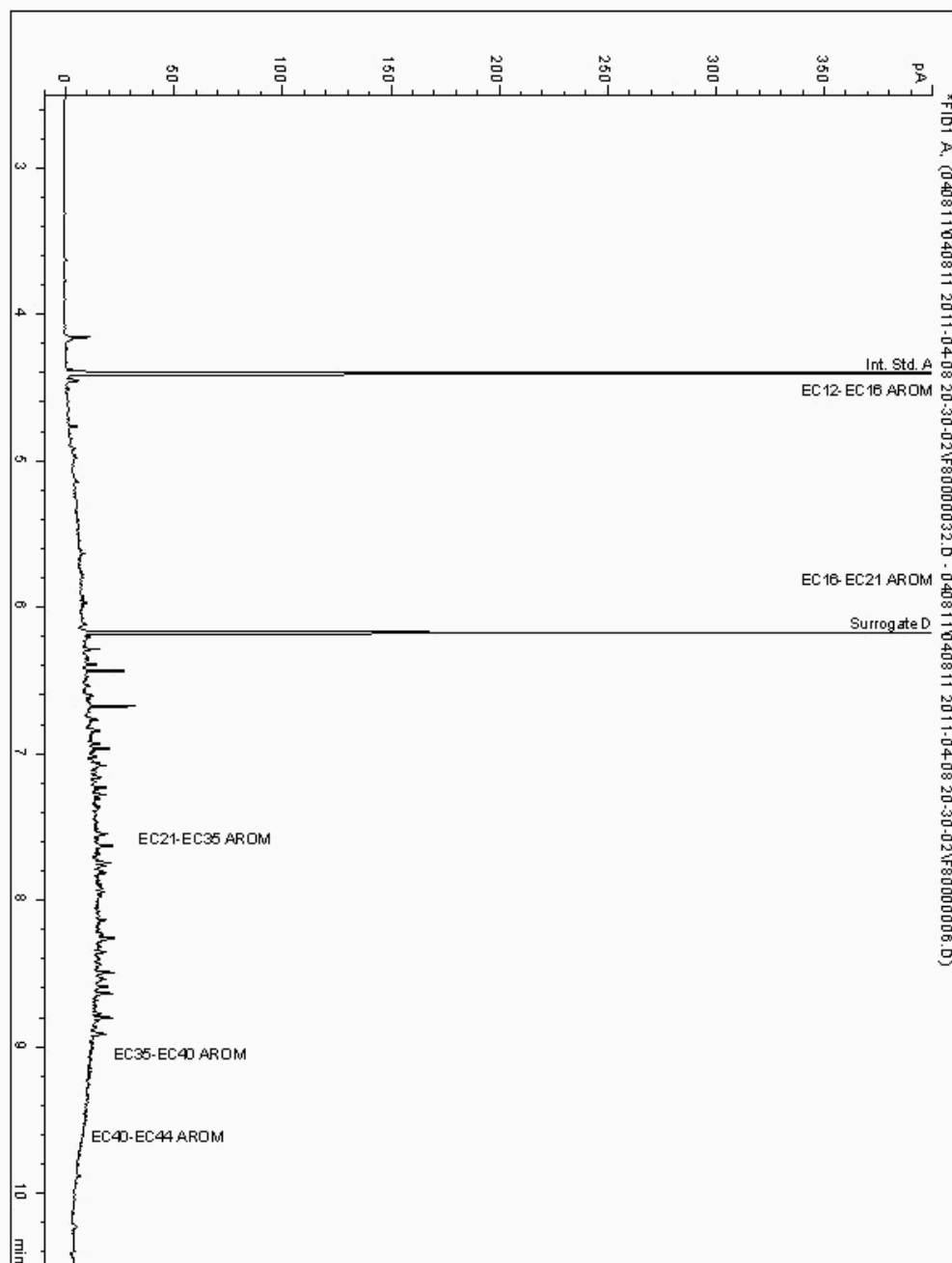
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3247165
Sample ID : CATP073

Depth : 0.40

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272308-3247165
Date Acquired : 08/04/11 19:54:33
Units : ppb
Dilution :
CF : 1
Multiplier : 1.030





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

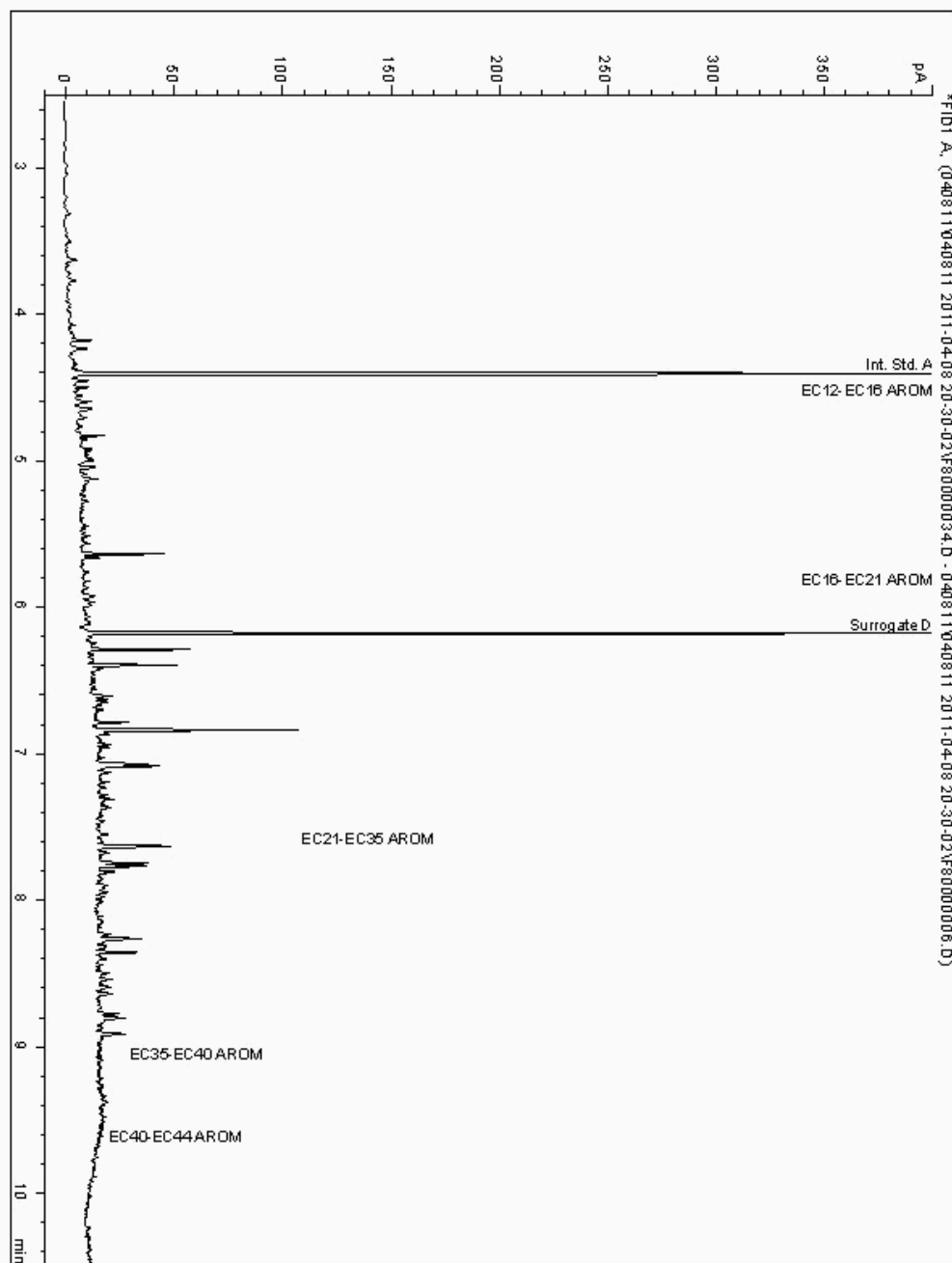
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3247173
Sample ID : CATP072

Depth : 0.40

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3272434-3247173
Date Acquired : 08/04/11 20:32:41
Units : ppb
Dilution :
CF : 1
Multiplier : 0.990





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

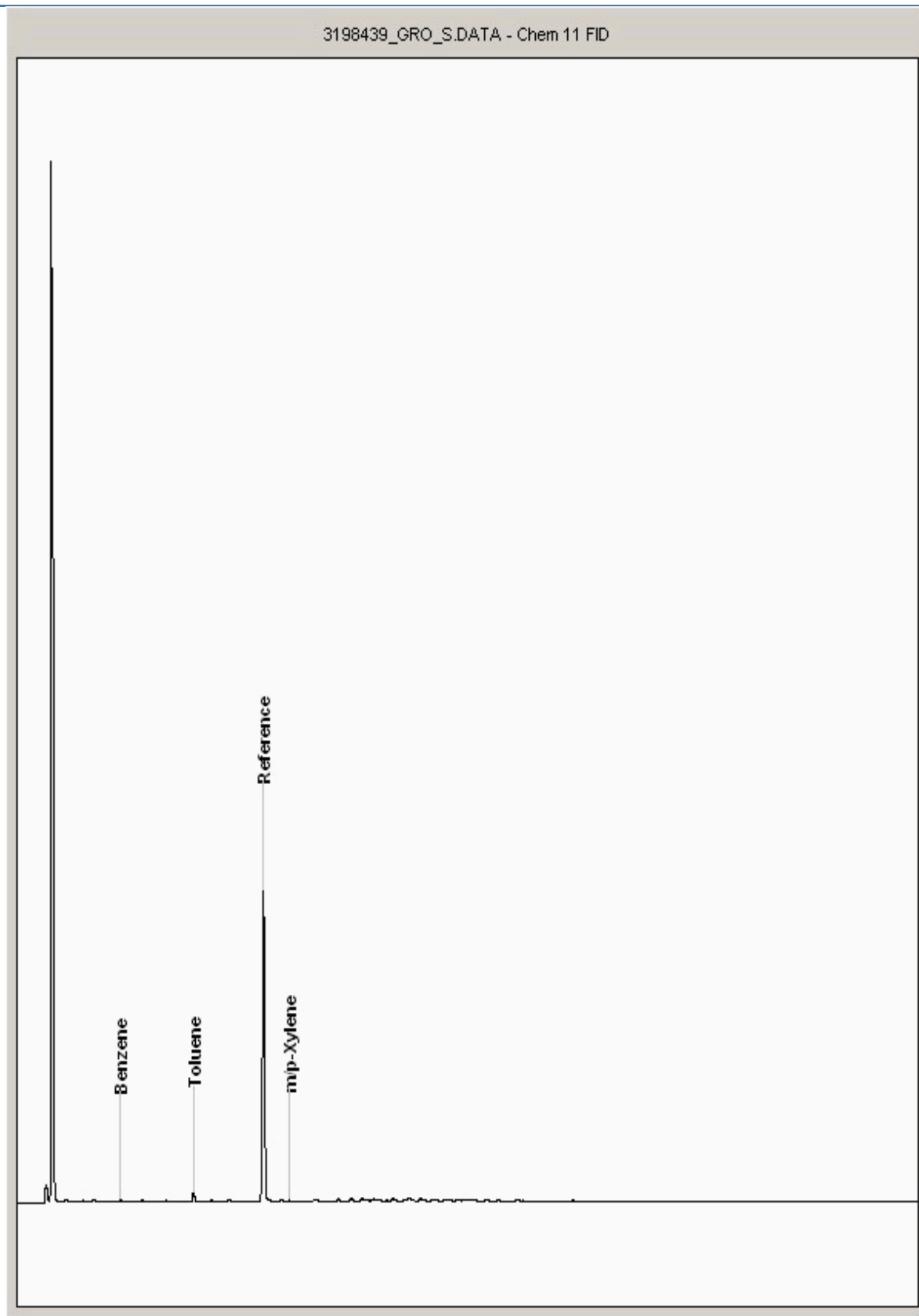
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198439
Sample ID : CATP104

Depth : 0.30





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

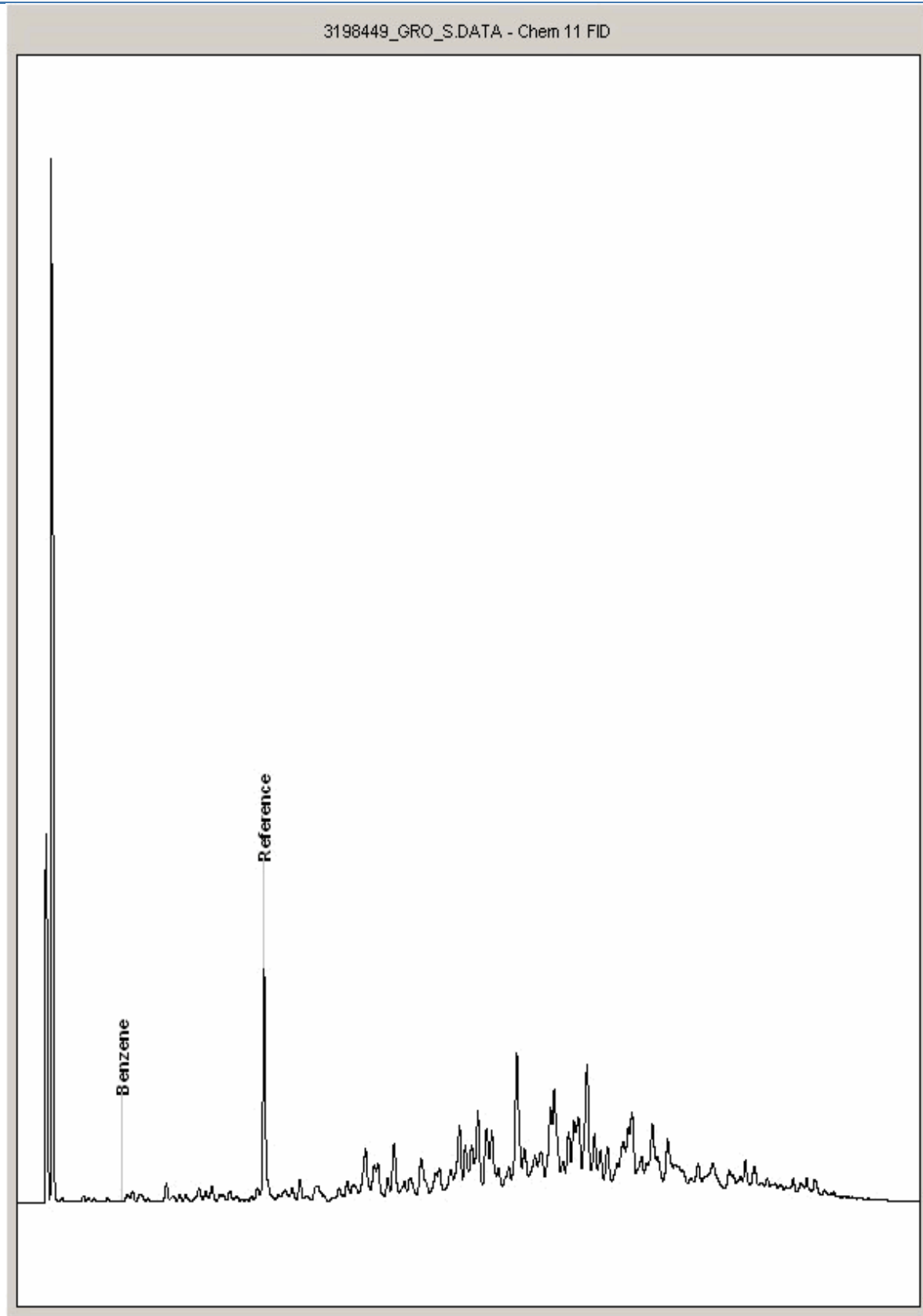
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198449
Sample ID : CATP104

Depth : 1.40





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

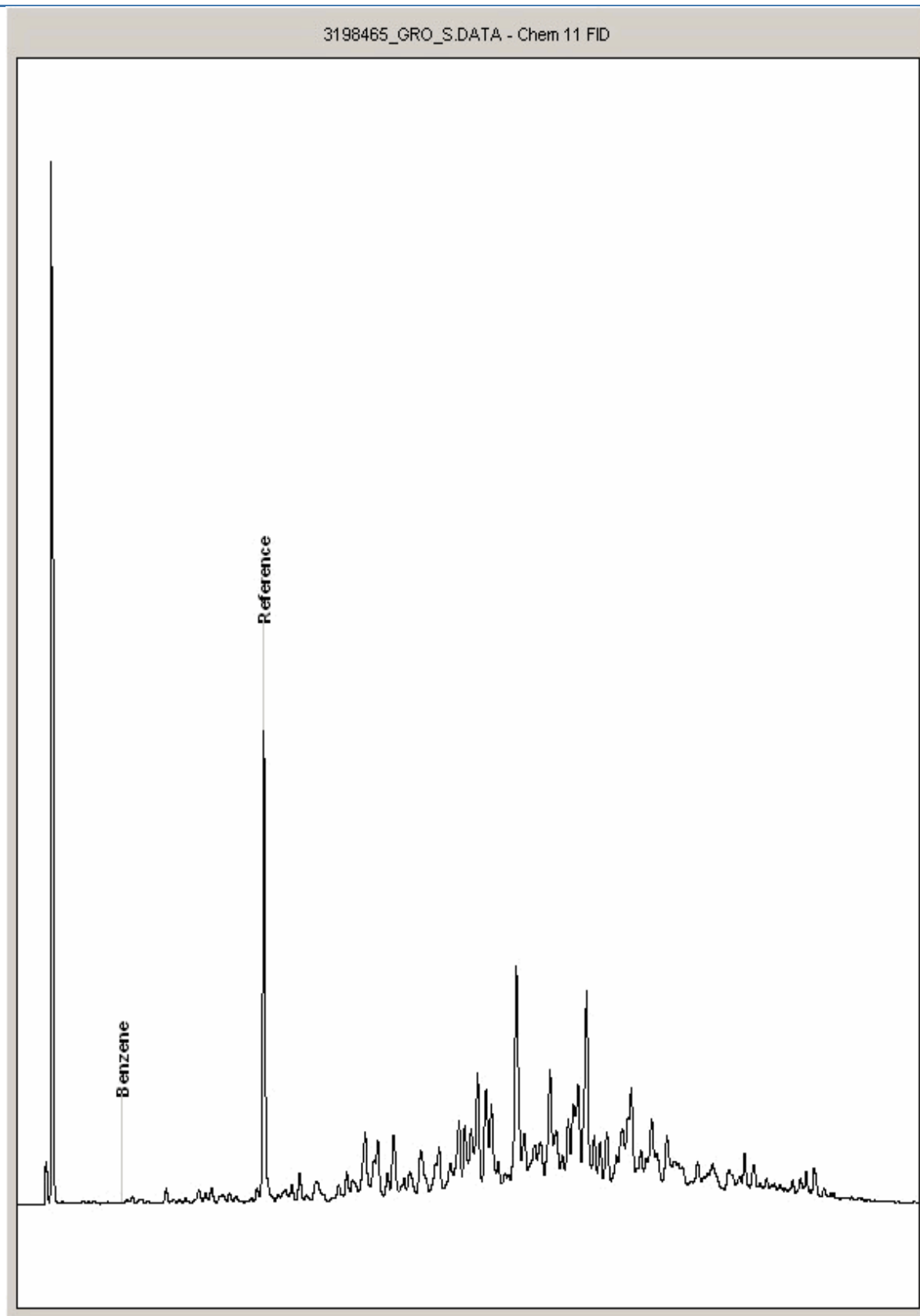
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198465
Sample ID : CATP104

Depth : 2.30





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

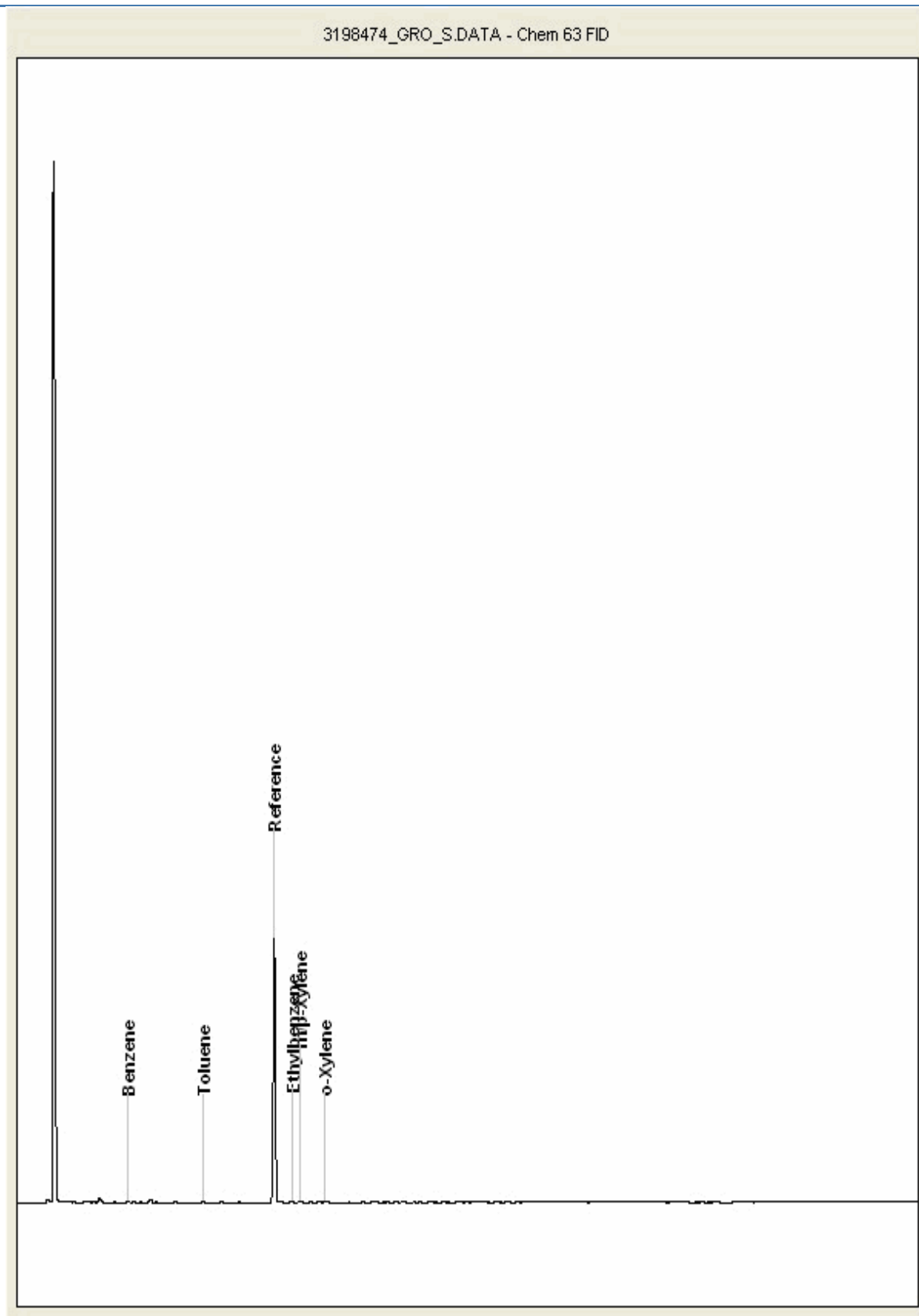
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198474
Sample ID : CATP103

Depth : 0.80





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

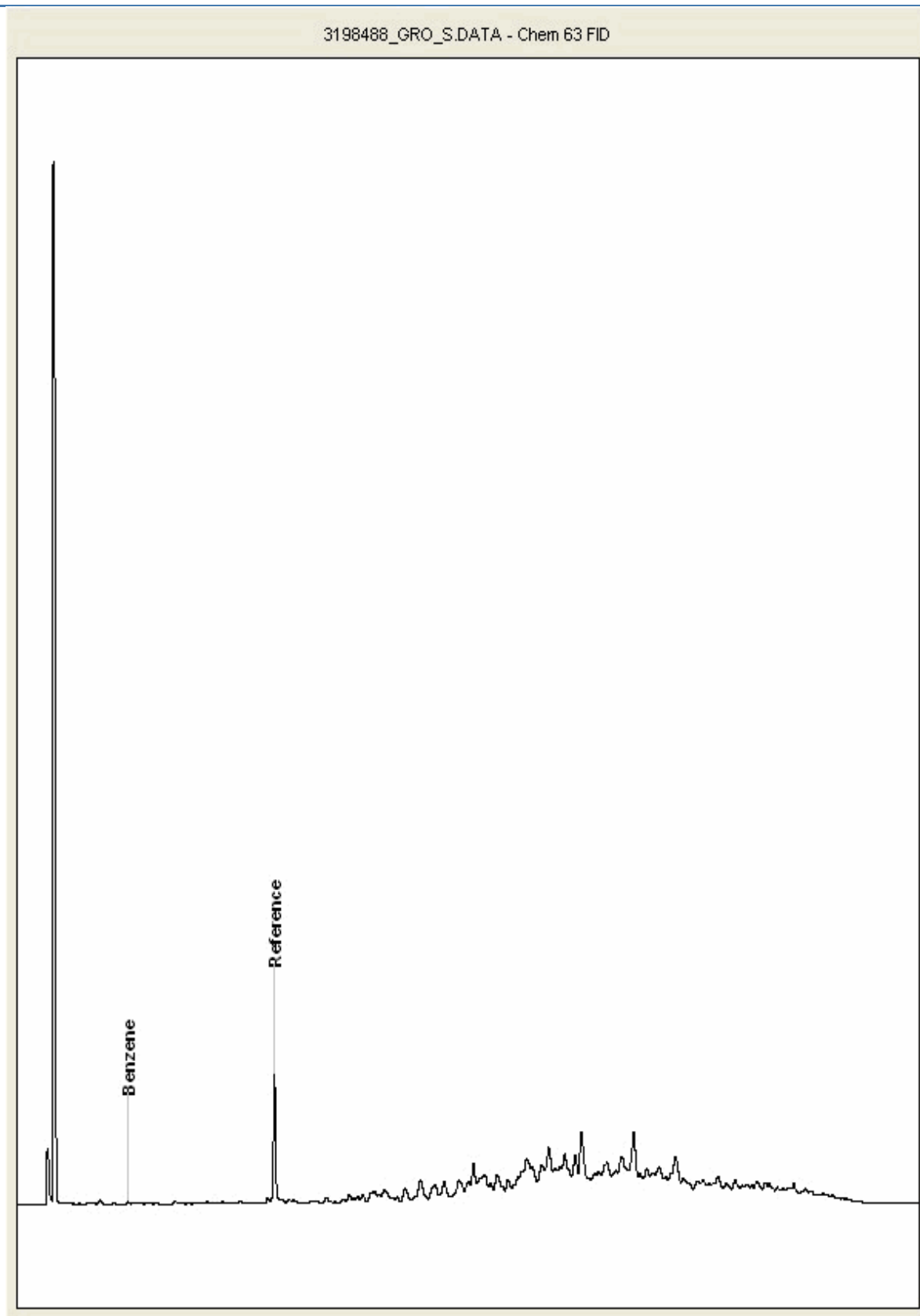
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198488
Sample ID : CATP103

Depth : 1.60





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

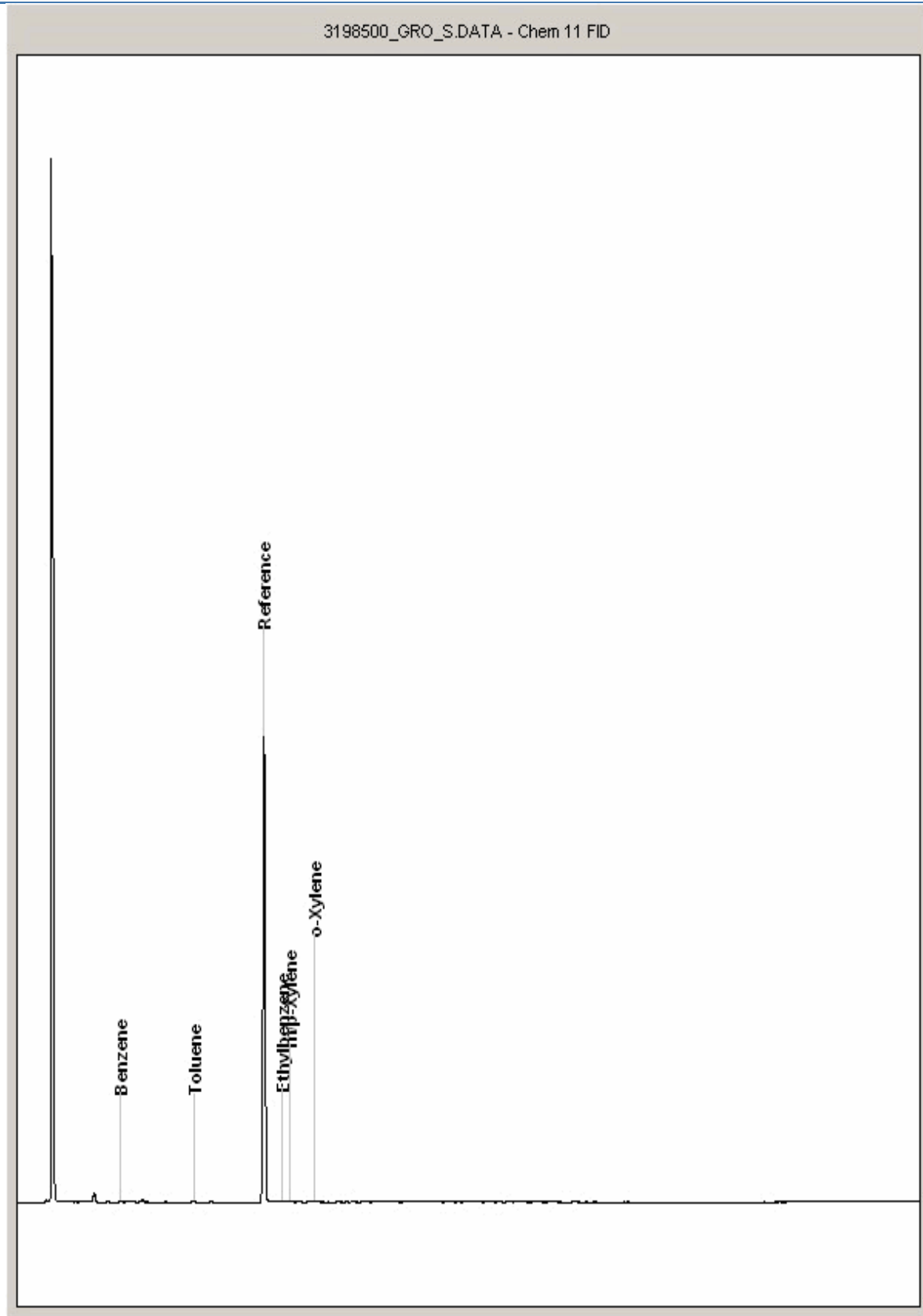
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198500
Sample ID : CATP102

Depth : 0.90





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

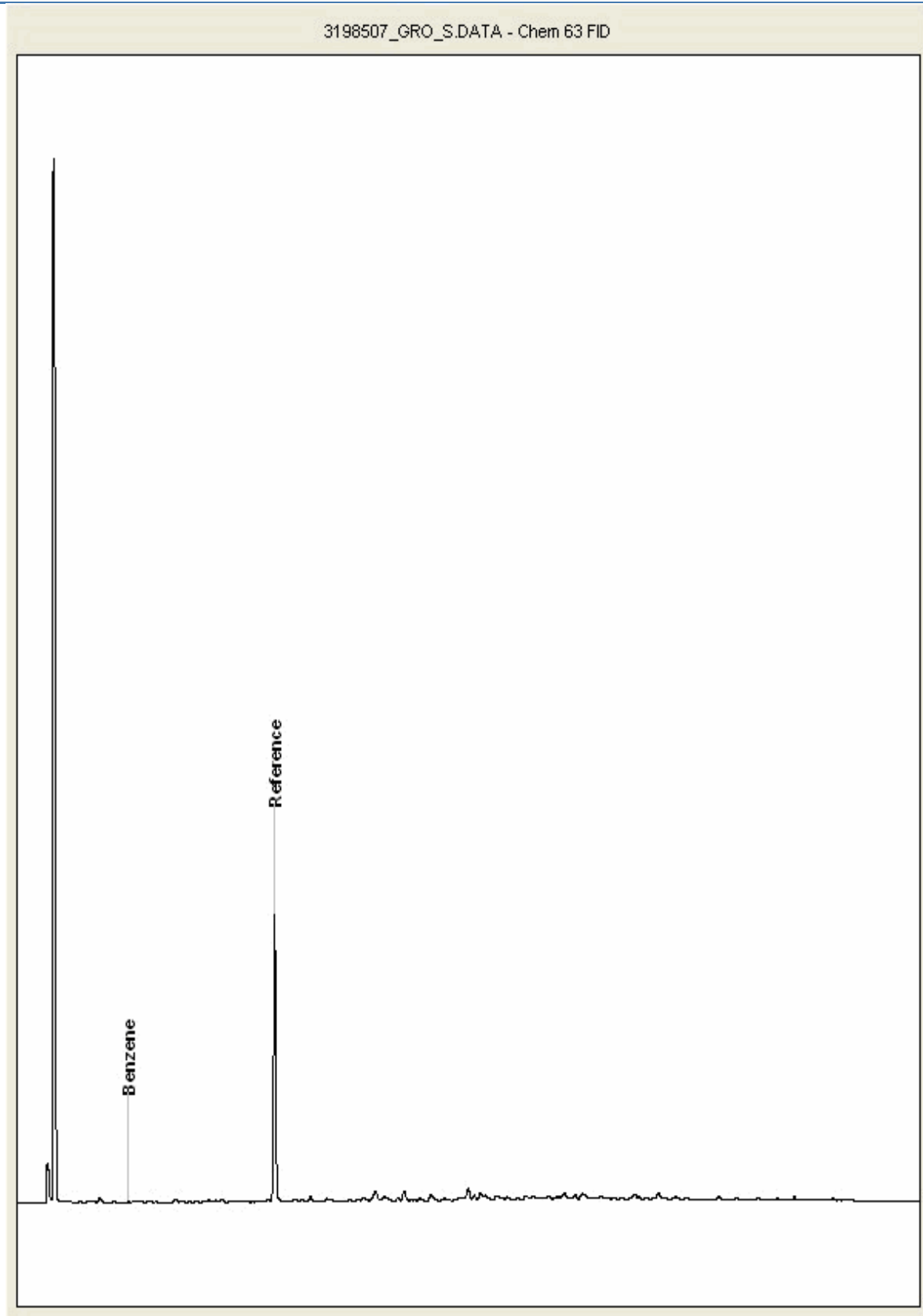
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198507
Sample ID : CATP102

Depth : 1.60





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

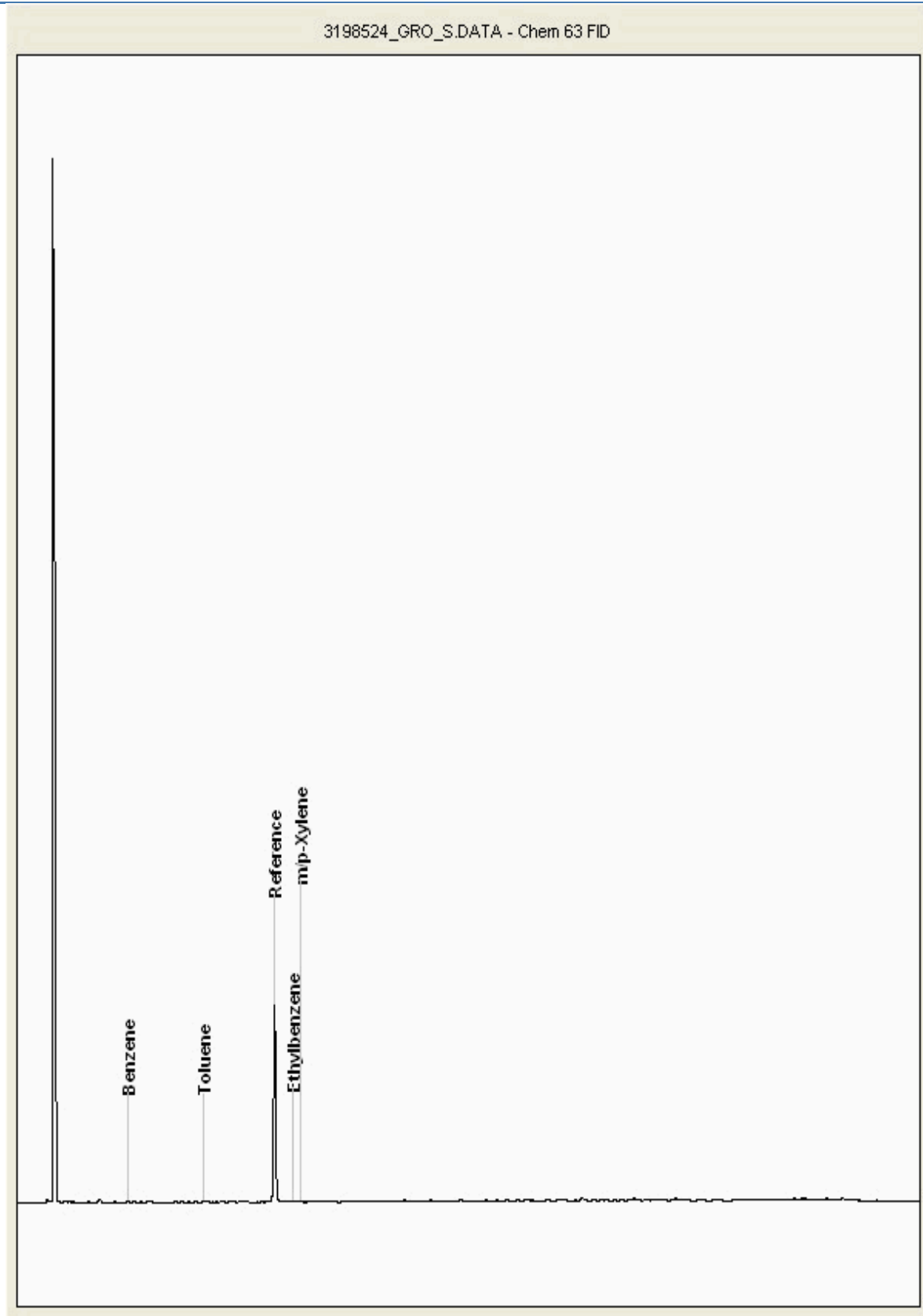
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198524
Sample ID : CATP100

Depth : 0.50





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

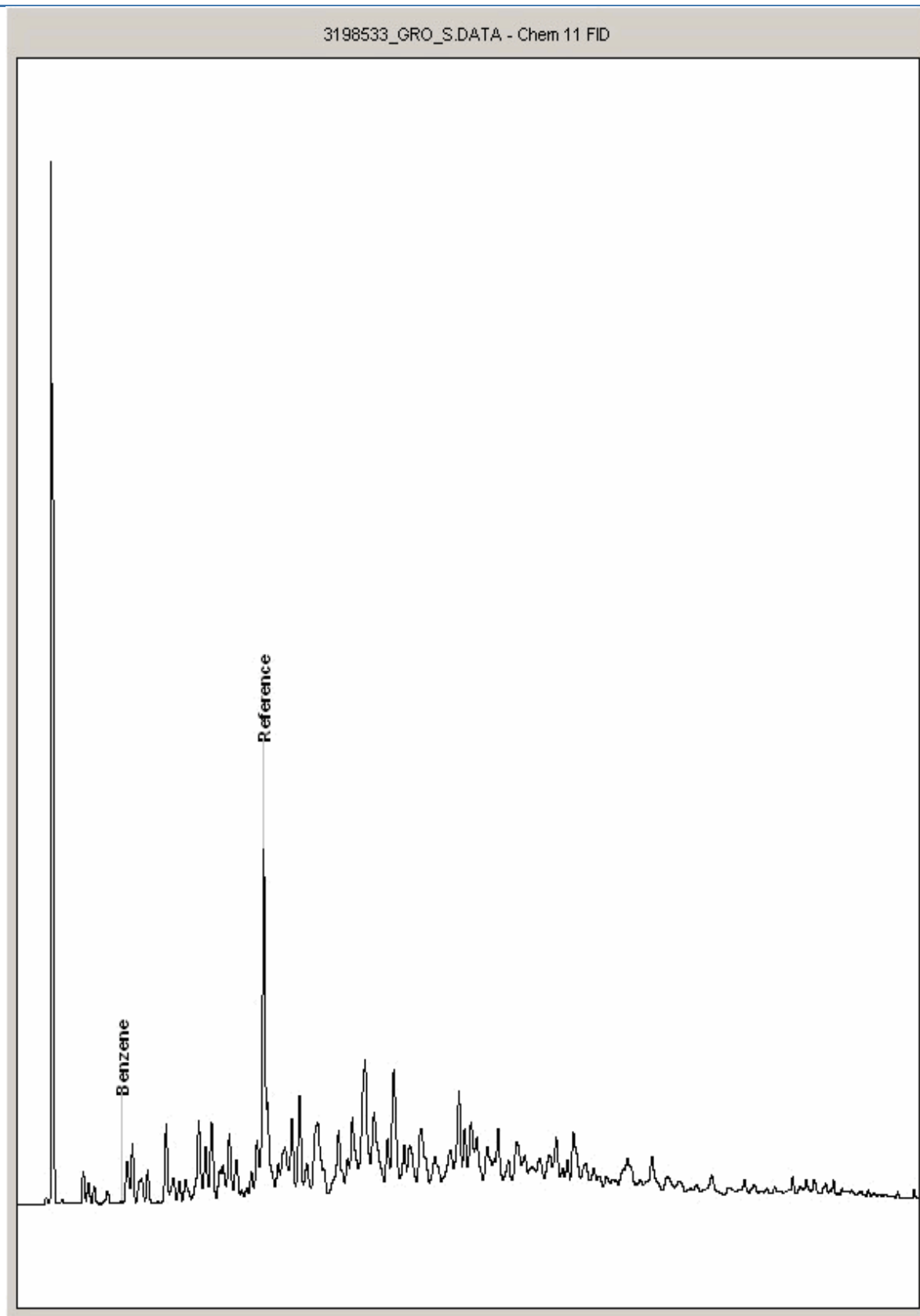
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198533
Sample ID : CATP100

Depth : 1.20





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

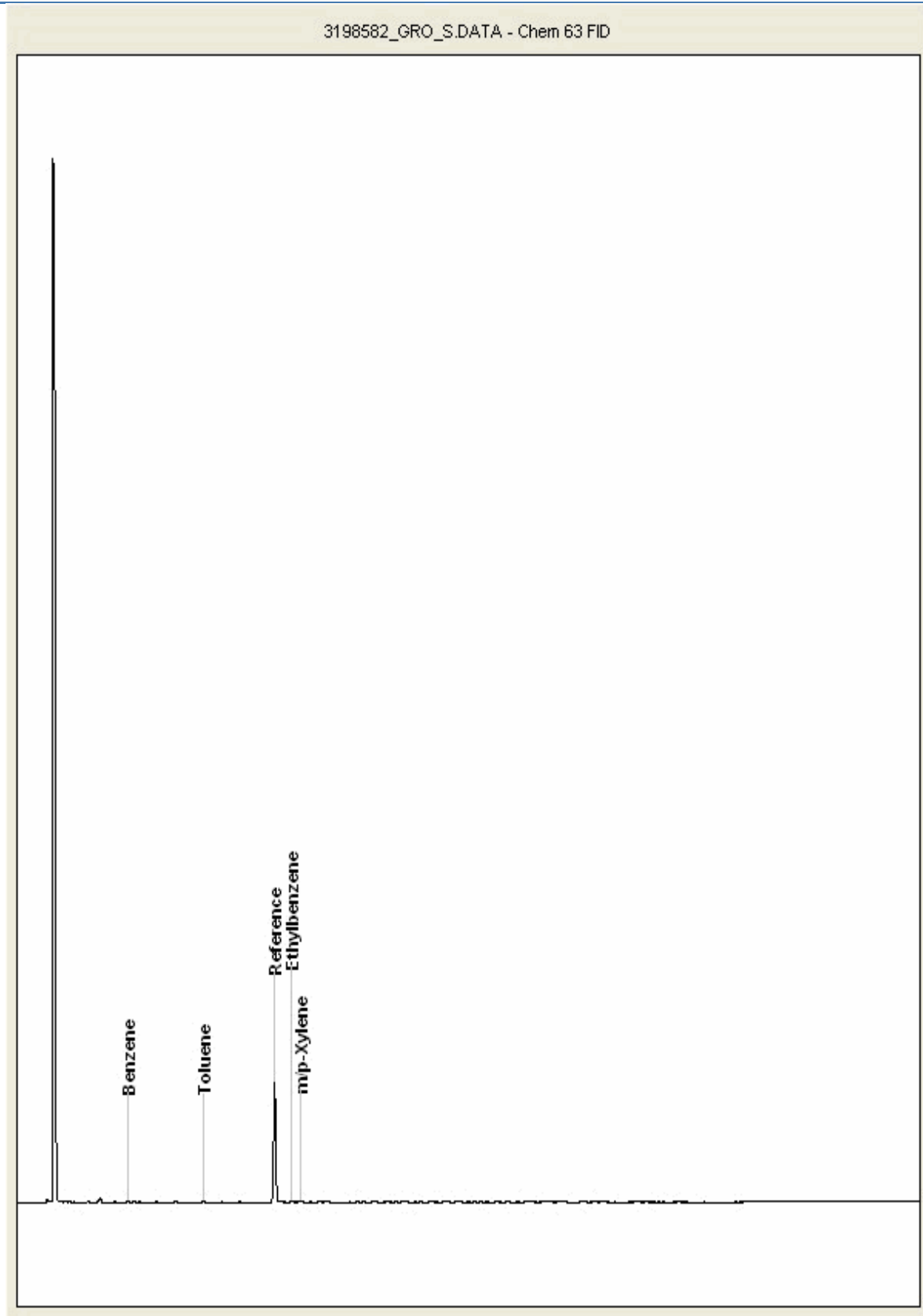
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198582
Sample ID : CATP101

Depth : 0.50





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

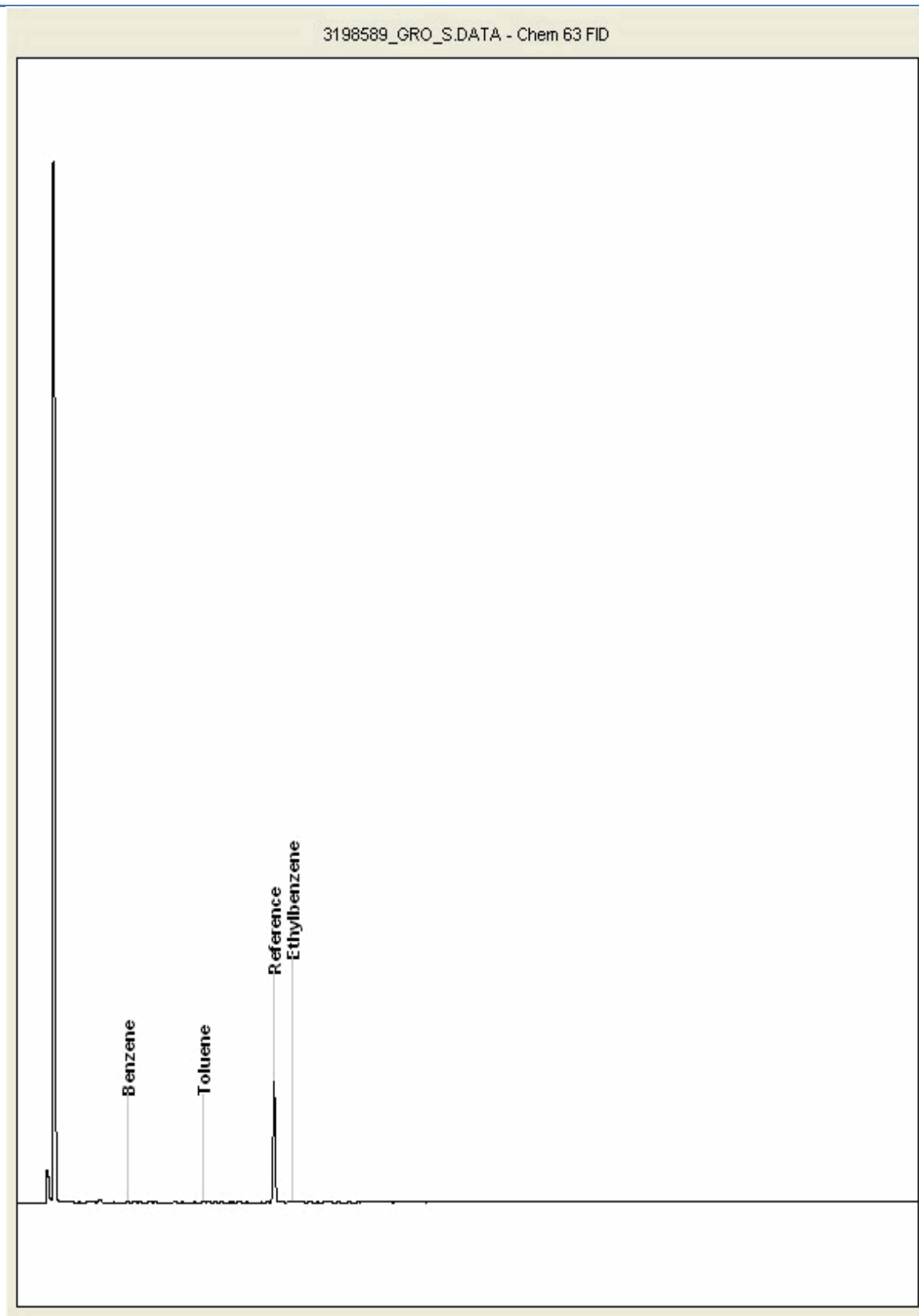
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198589
Sample ID : CATP101

Depth : 1.00





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

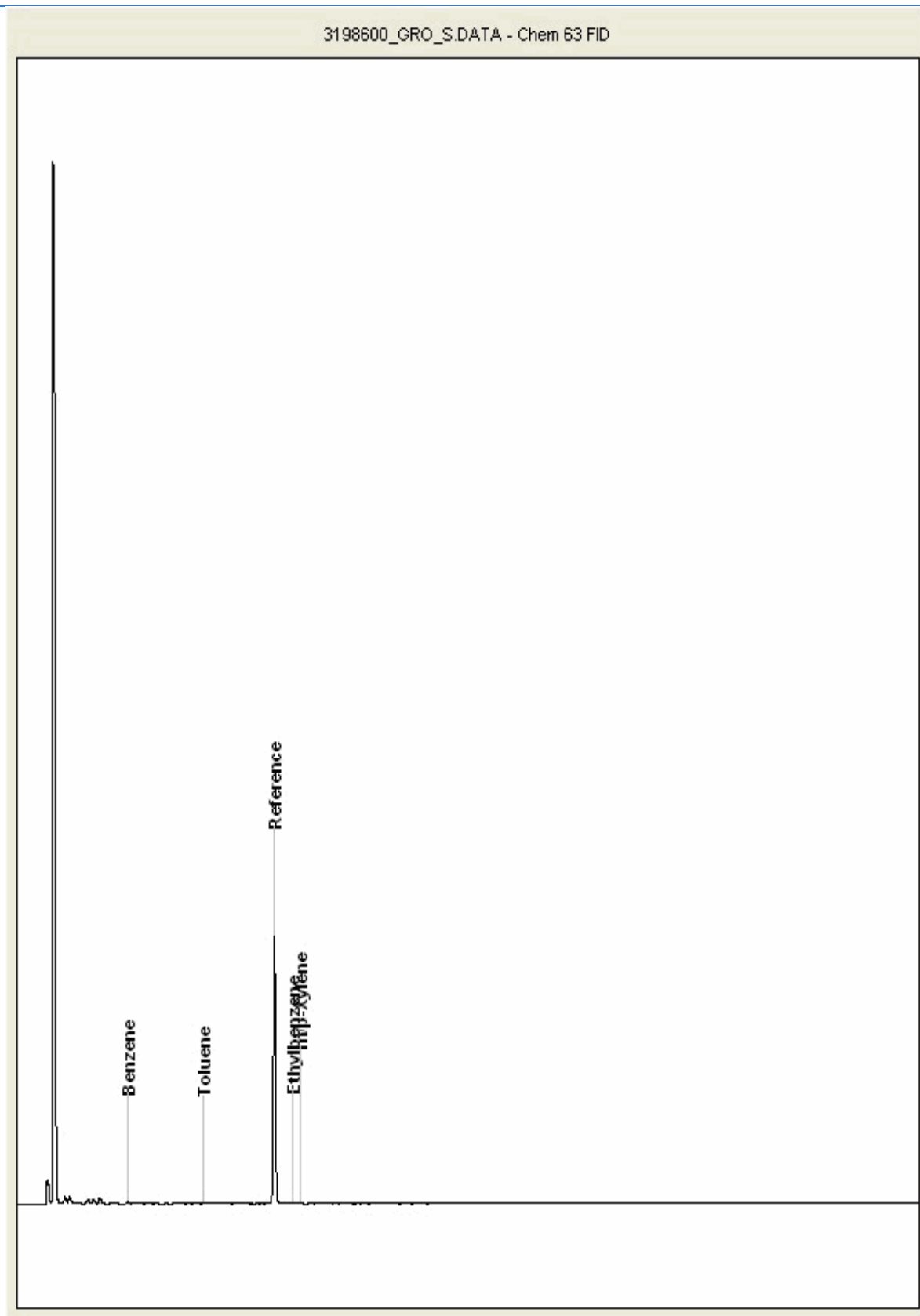
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198600
Sample ID : CATP080

Depth : 0.80





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

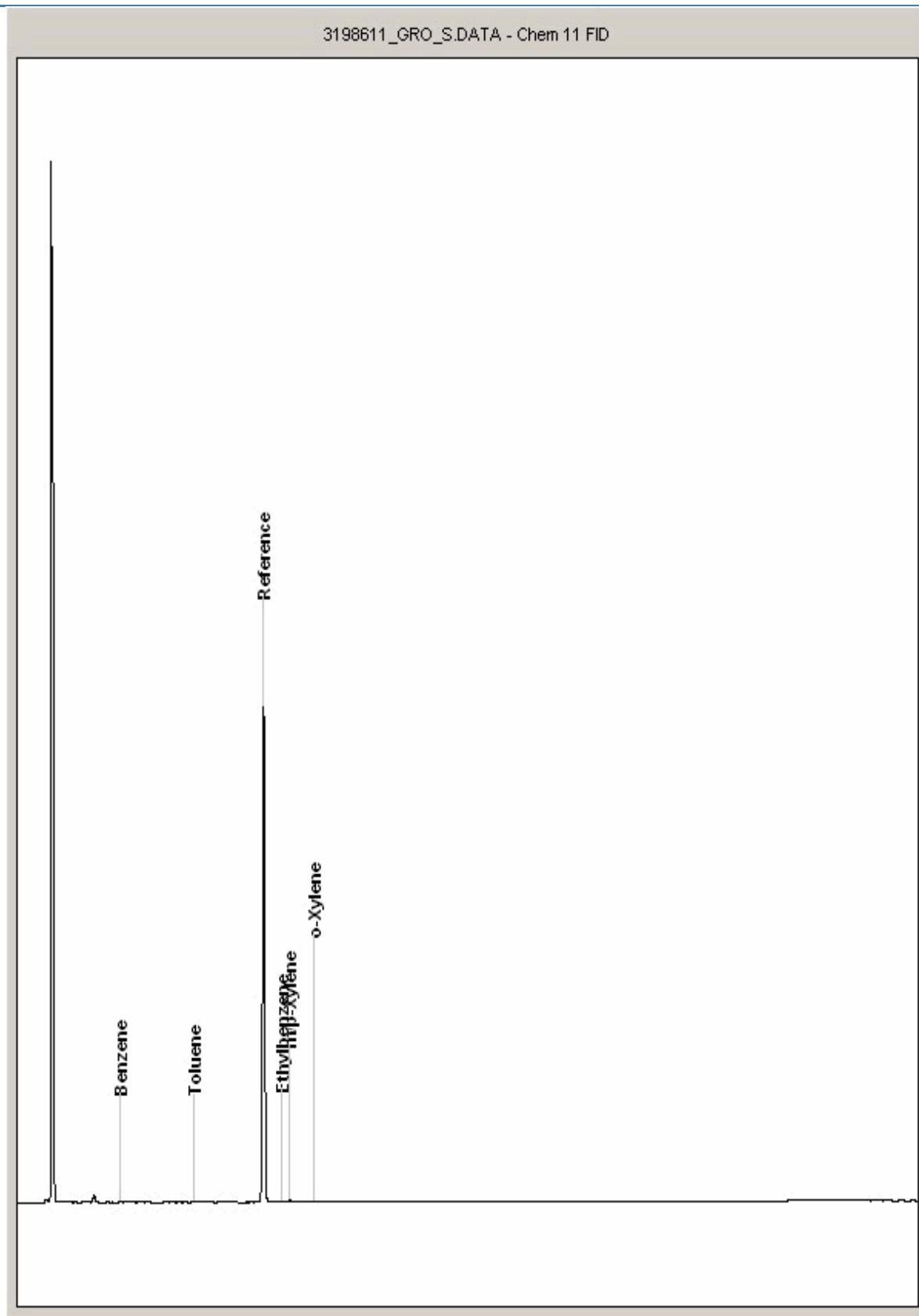
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198611
Sample ID : CATP073

Depth : 0.40





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

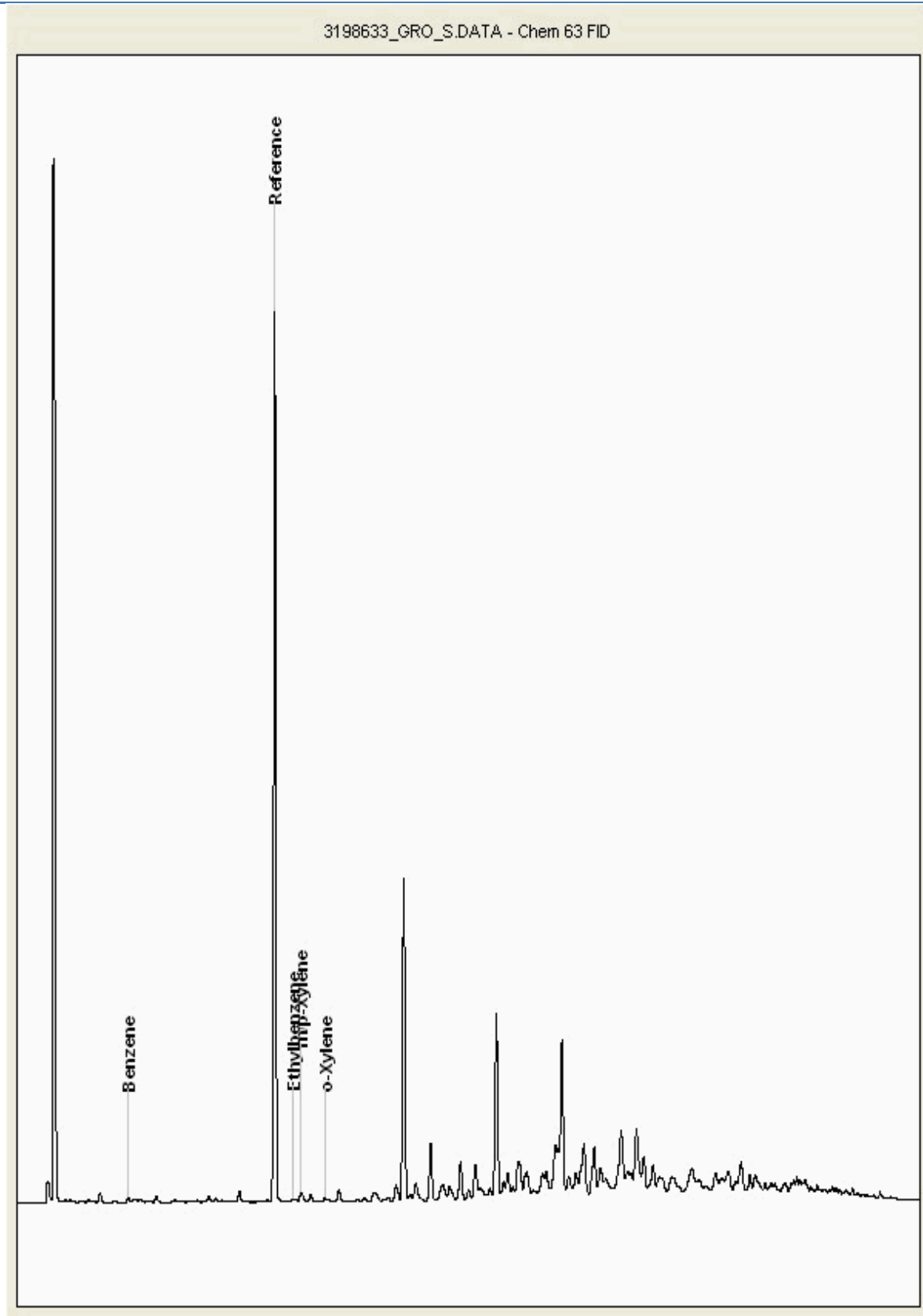
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198633
Sample ID : CATP073

Depth : 1.50





CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

Order Number:
Report Number: 125159
Superseded Report:

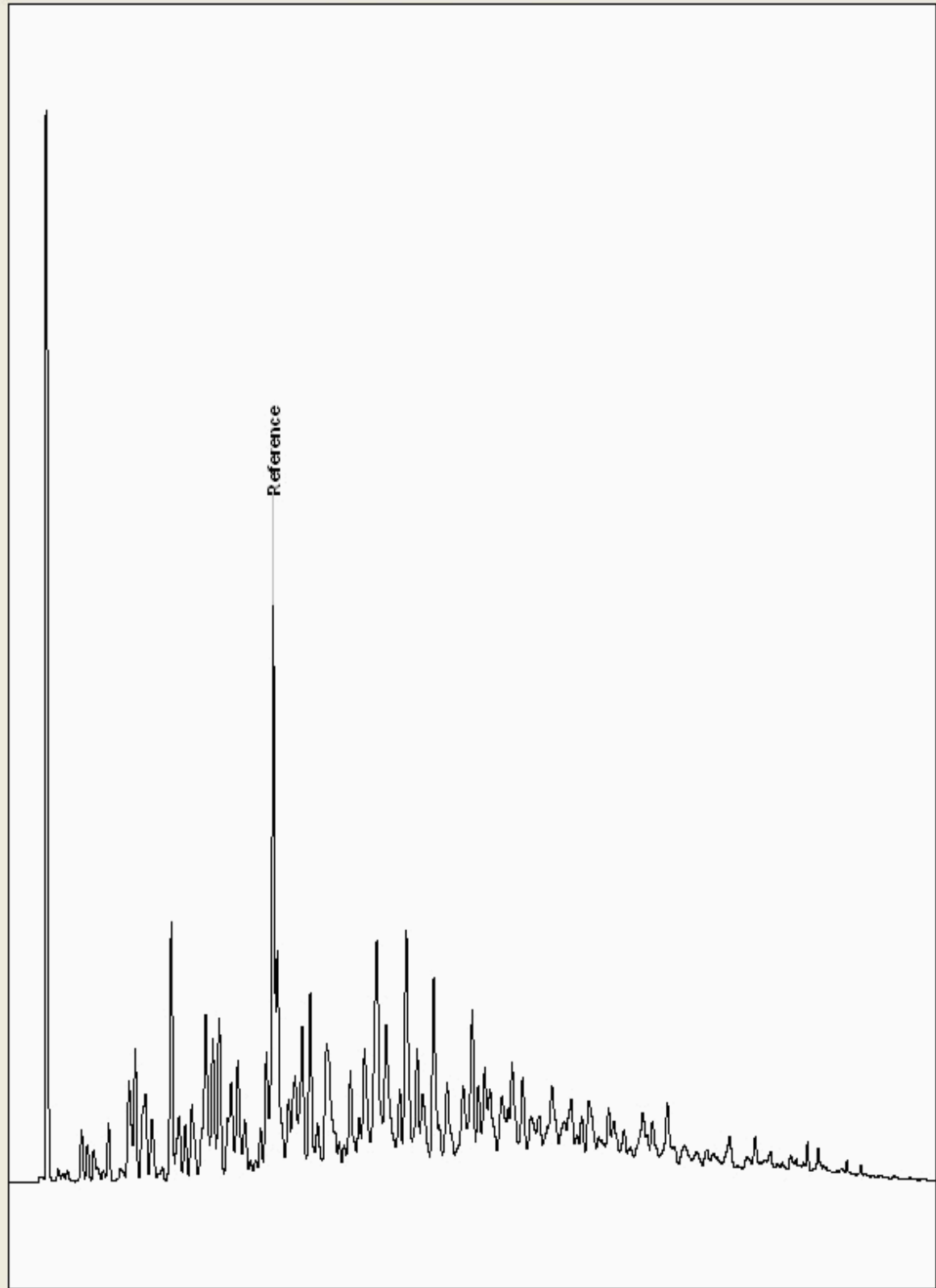
Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198645
Sample ID : CATP072

Depth : 0.40

3198645_GRO_S.DATA - Chem 63 FID





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

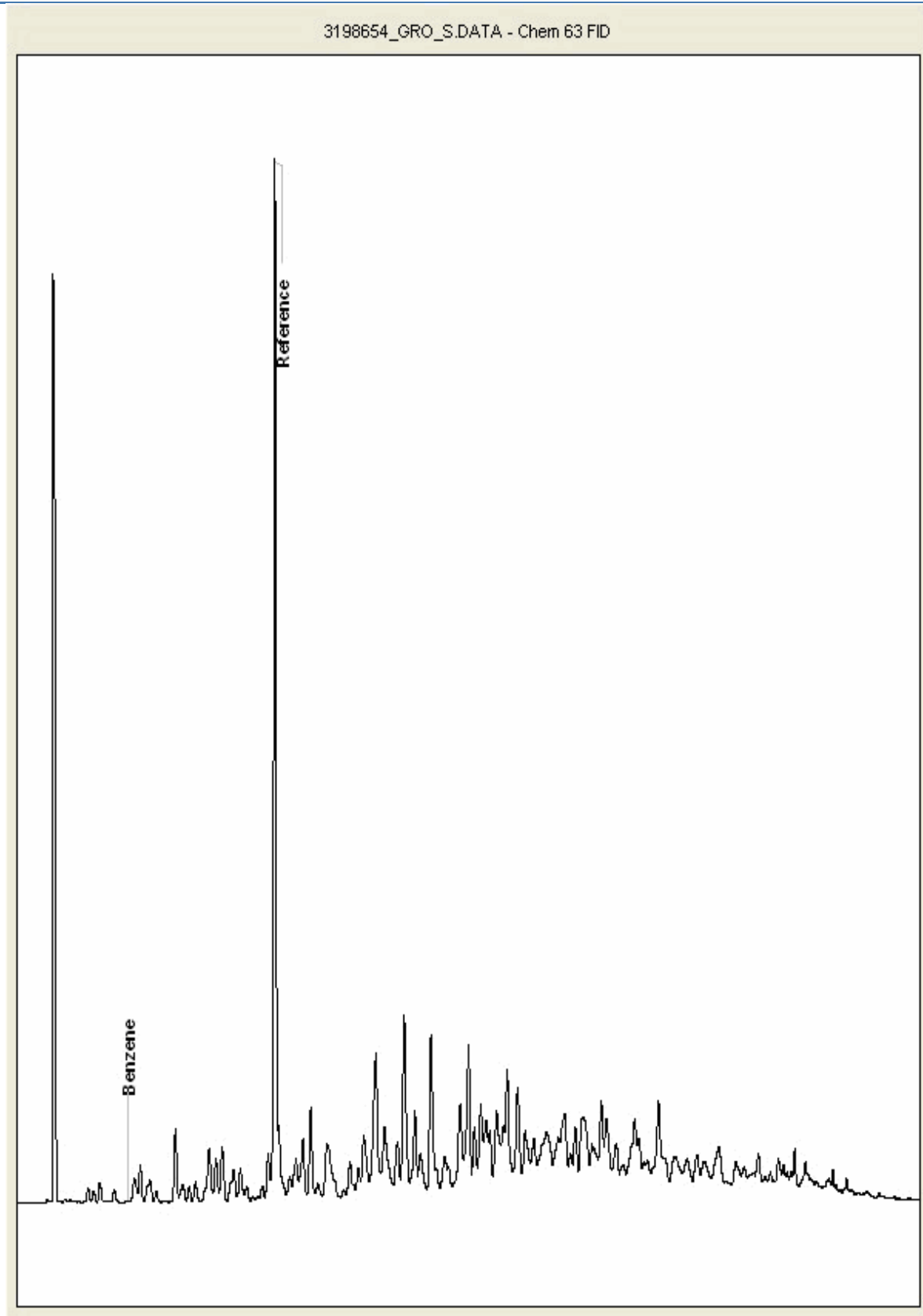
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198654
Sample ID : CATP072

Depth : 1.20





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

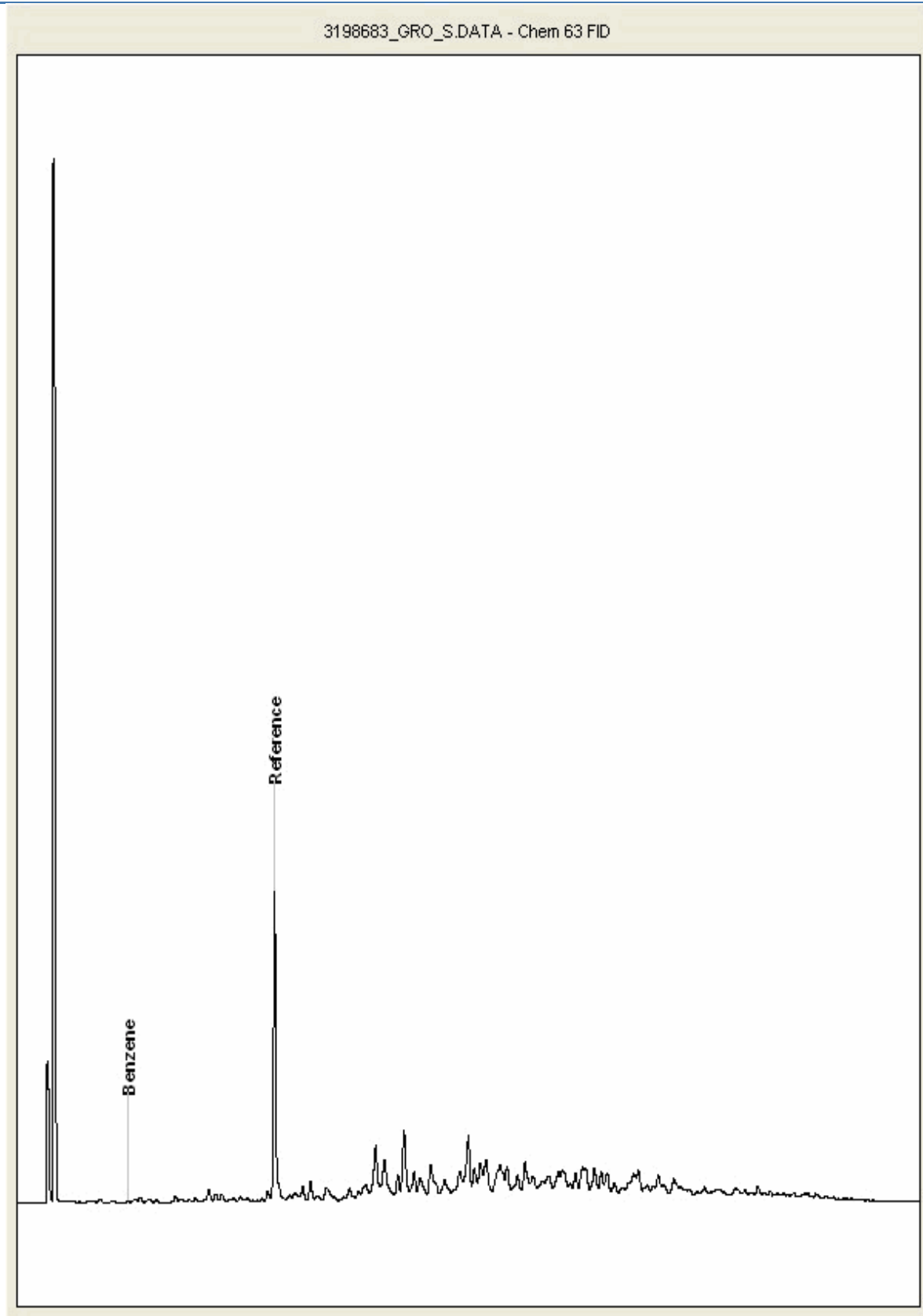
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198683
Sample ID : CATP068

Depth : 0.60





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

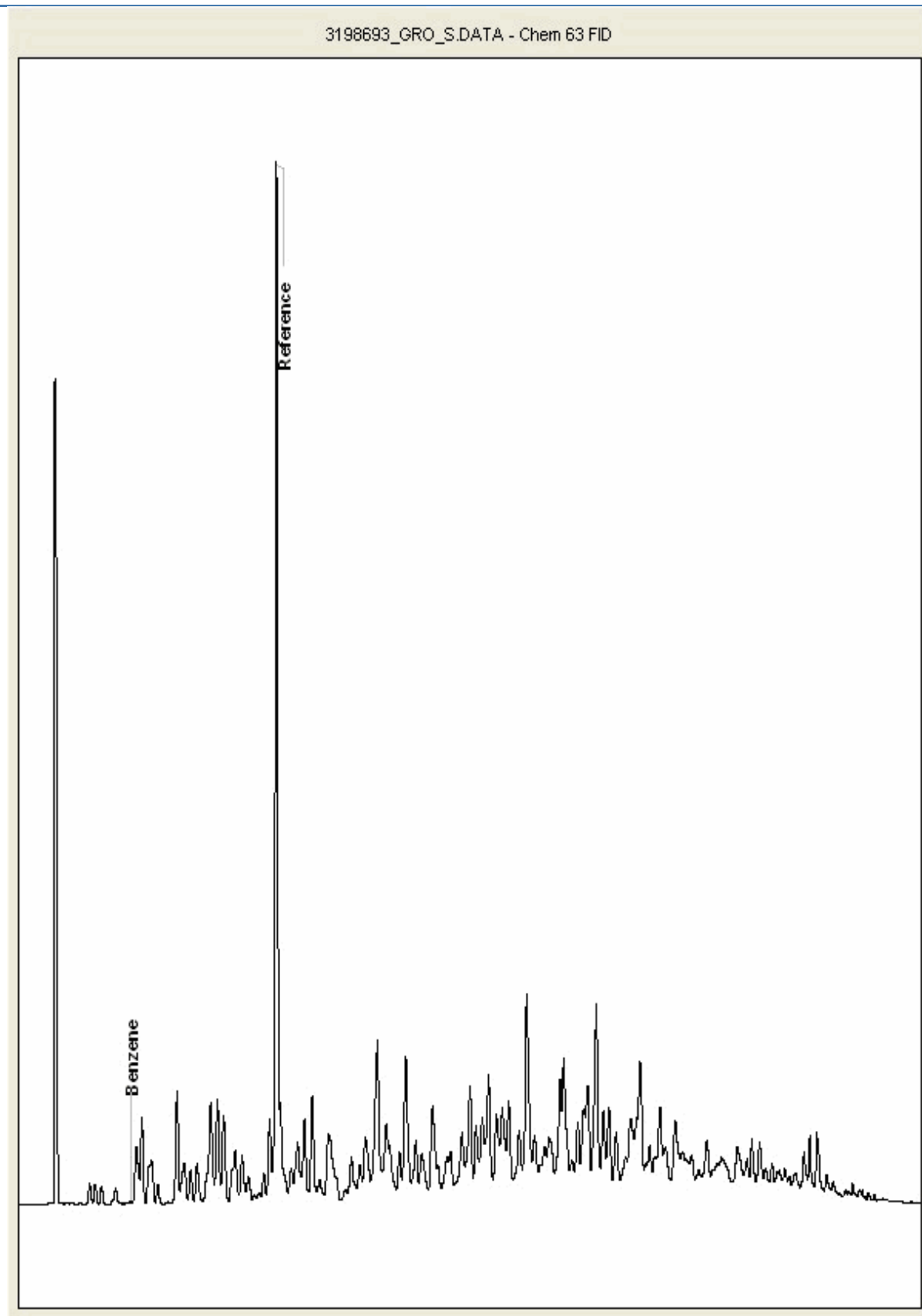
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198693
Sample ID : CATP068

Depth : 1.50





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

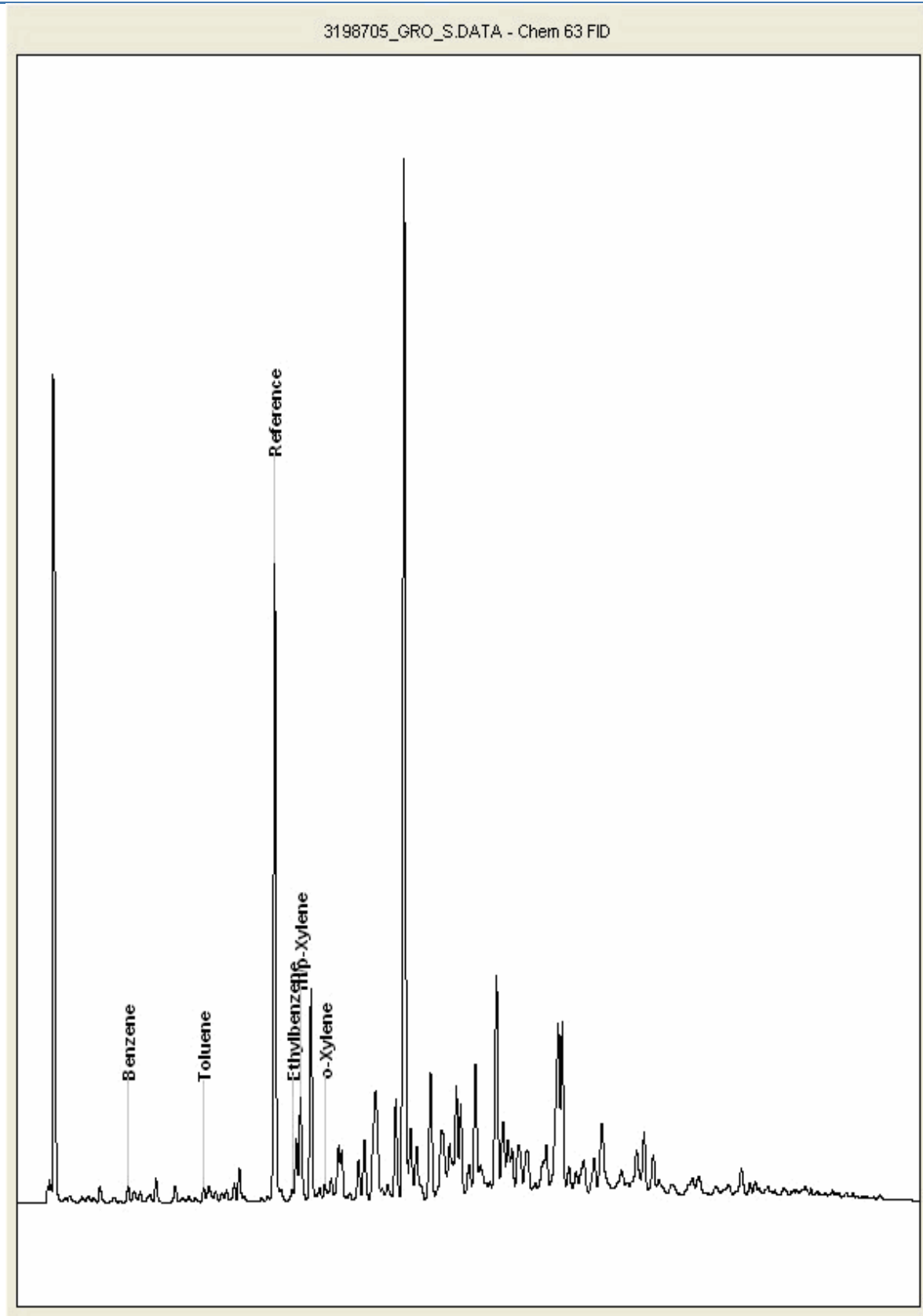
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198705
Sample ID : CATP069

Depth : 0.50





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

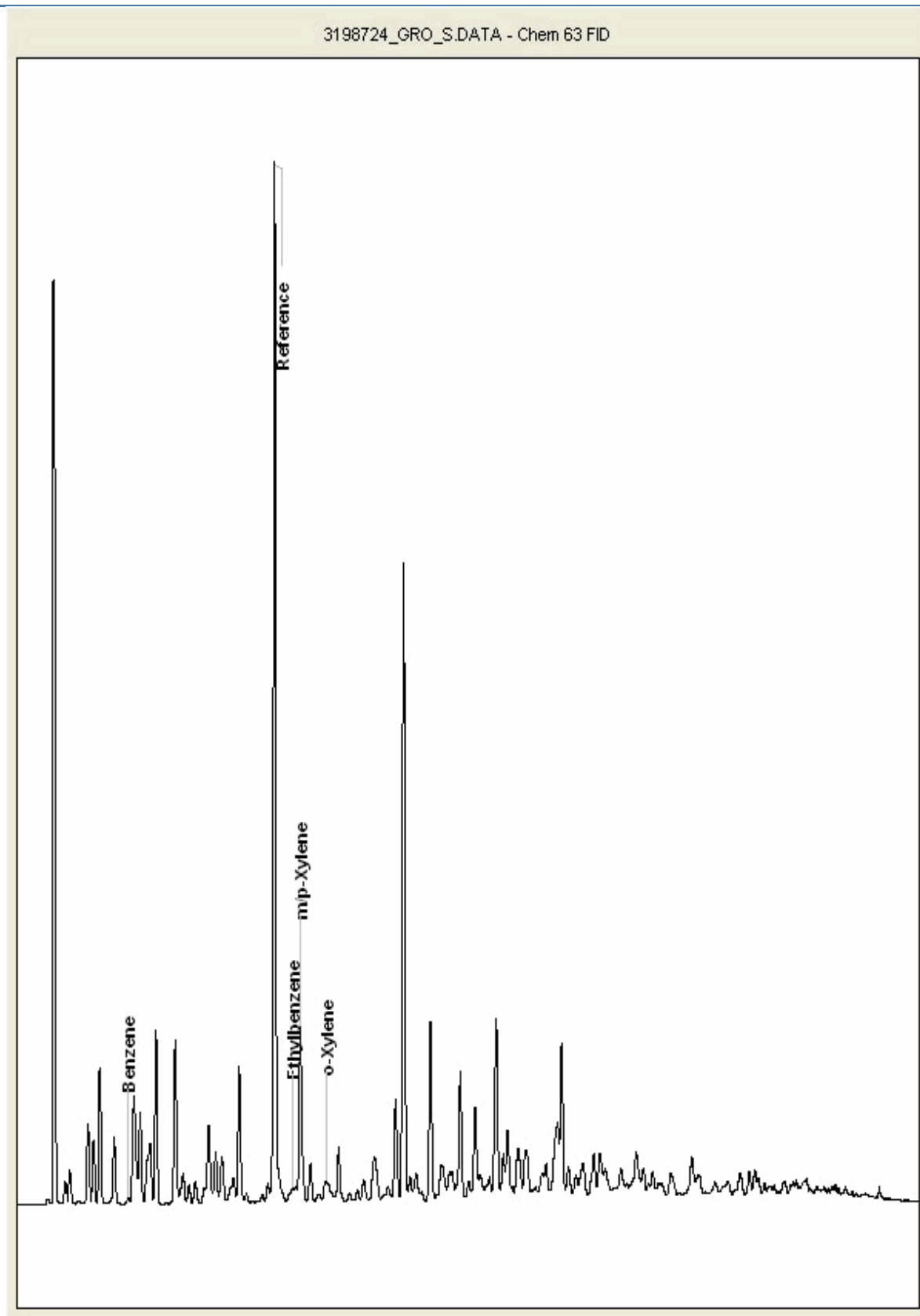
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198724
Sample ID : CATP069

Depth : 1.50





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

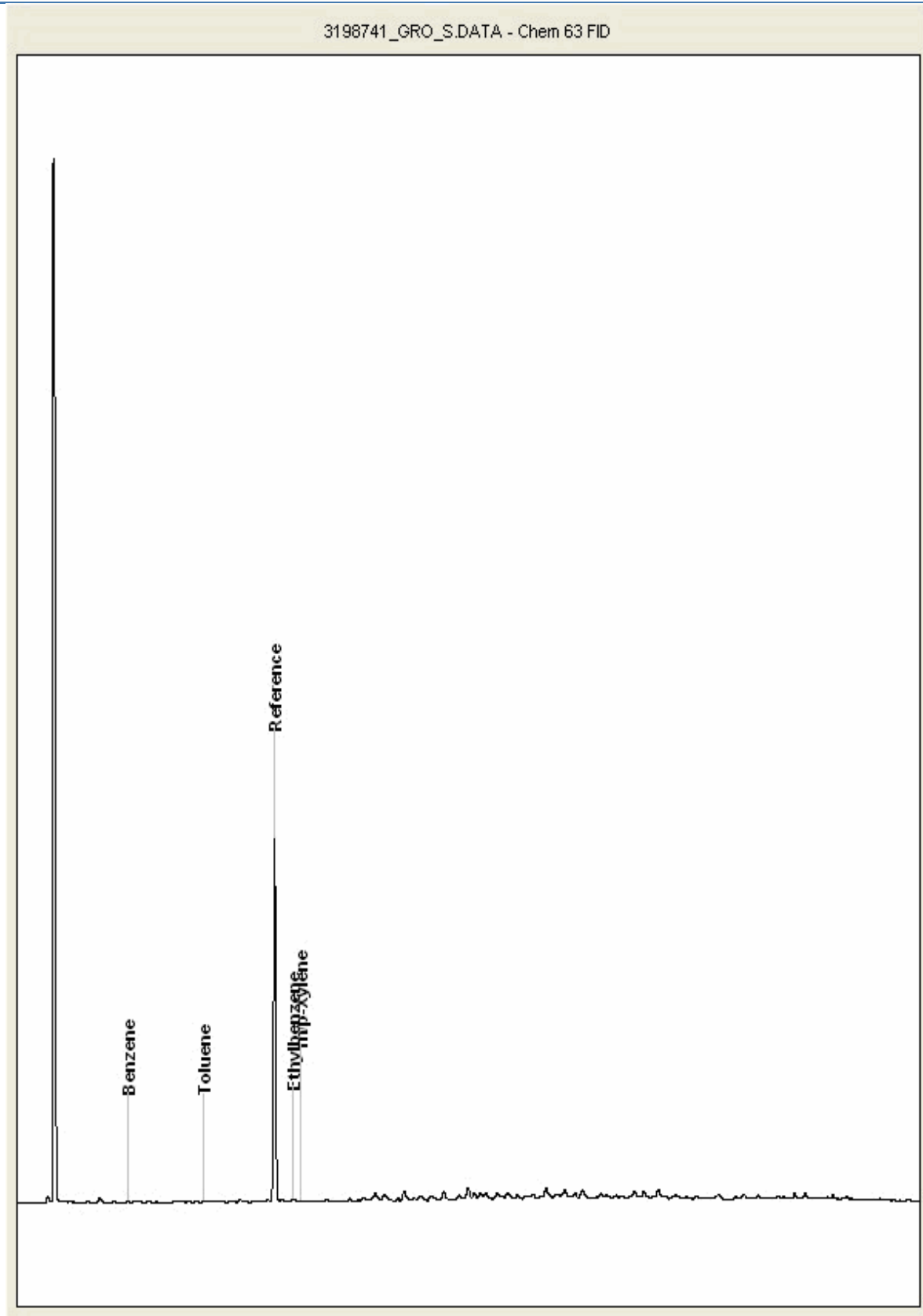
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198741
Sample ID : CATP082

Depth : 0.50





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

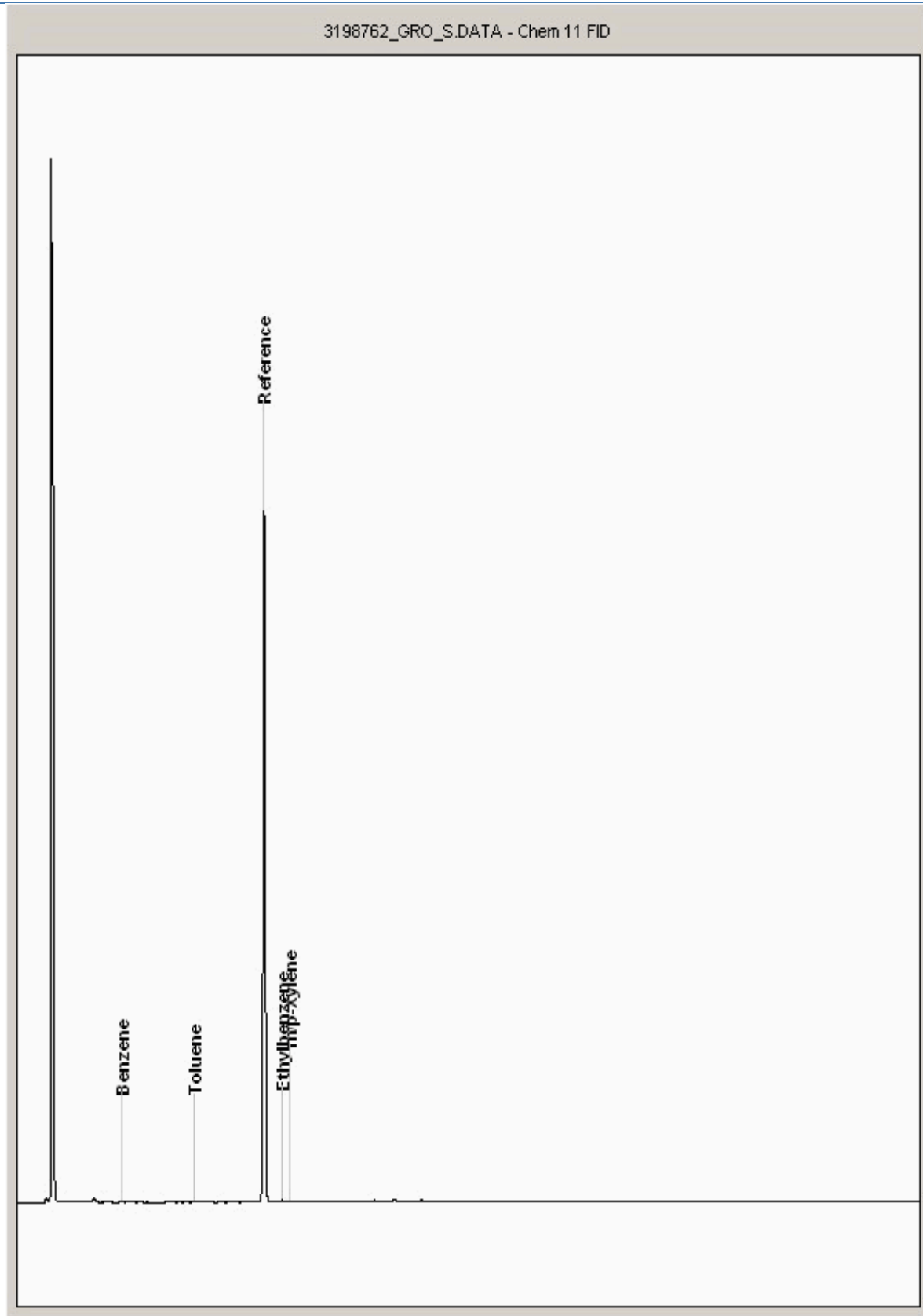
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198762
Sample ID : CATP082

Depth : 1.50





CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

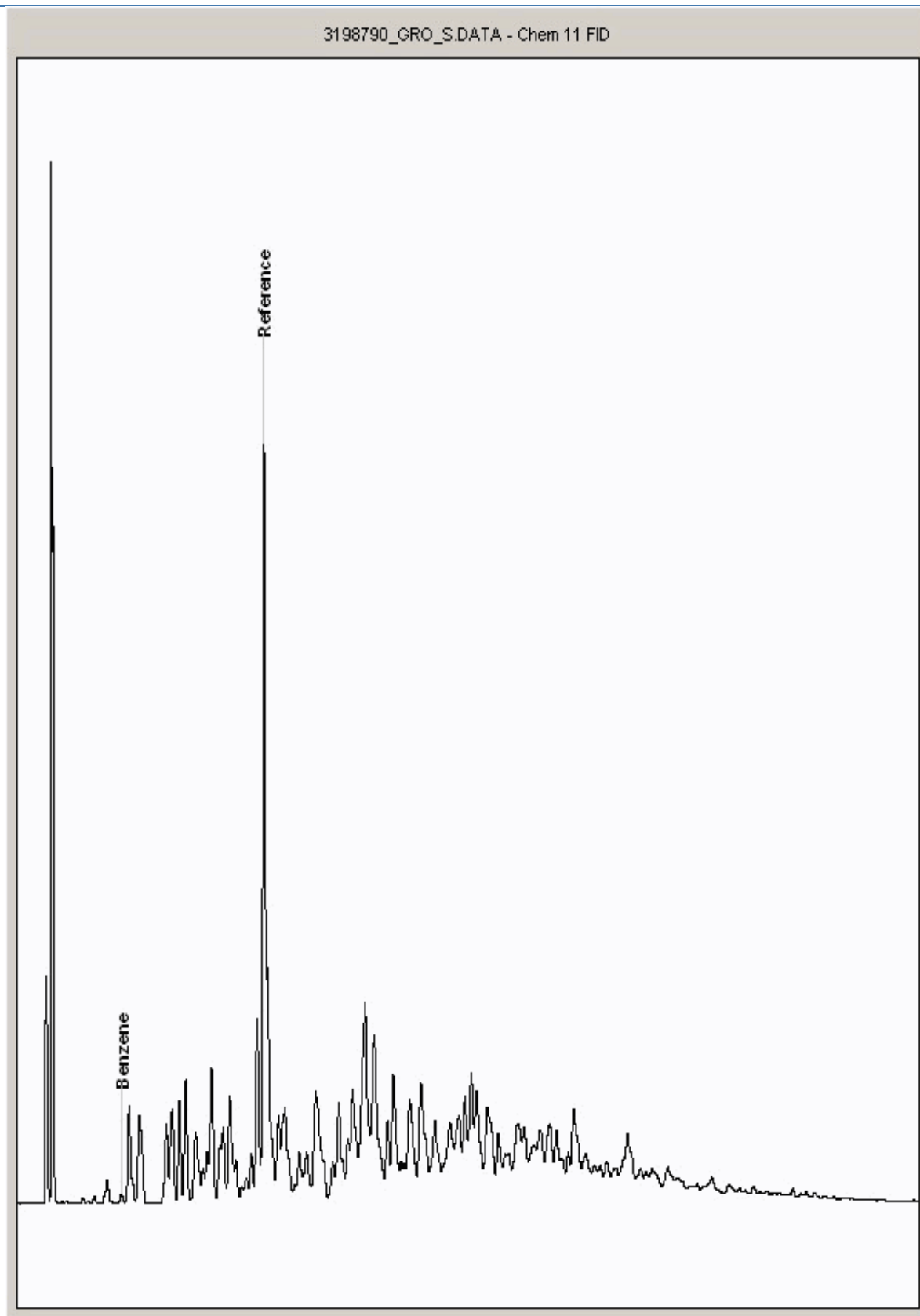
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198790
Sample ID : CATP075

Depth : 0.70





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

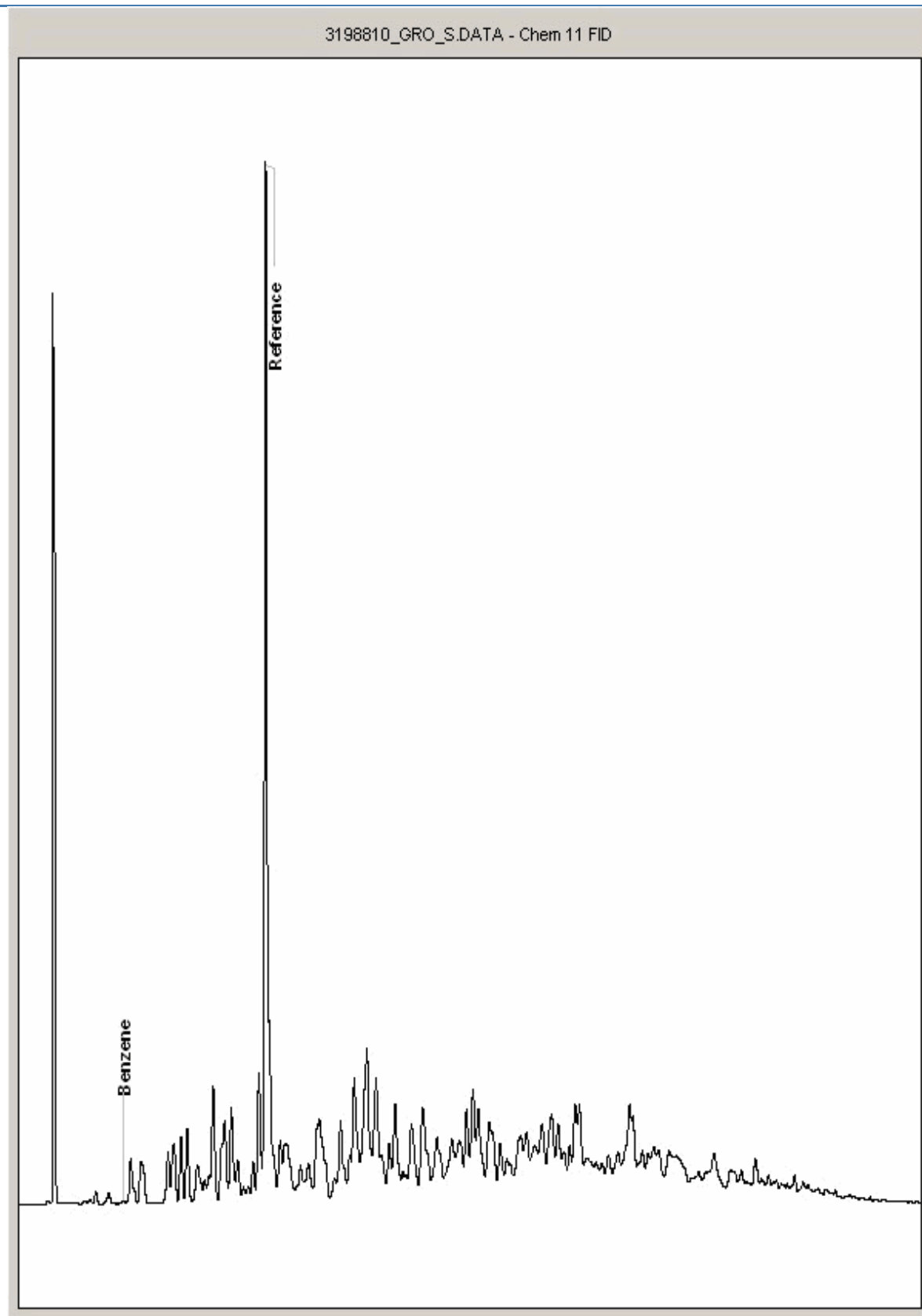
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198810
Sample ID : CATP075

Depth : 1.30





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

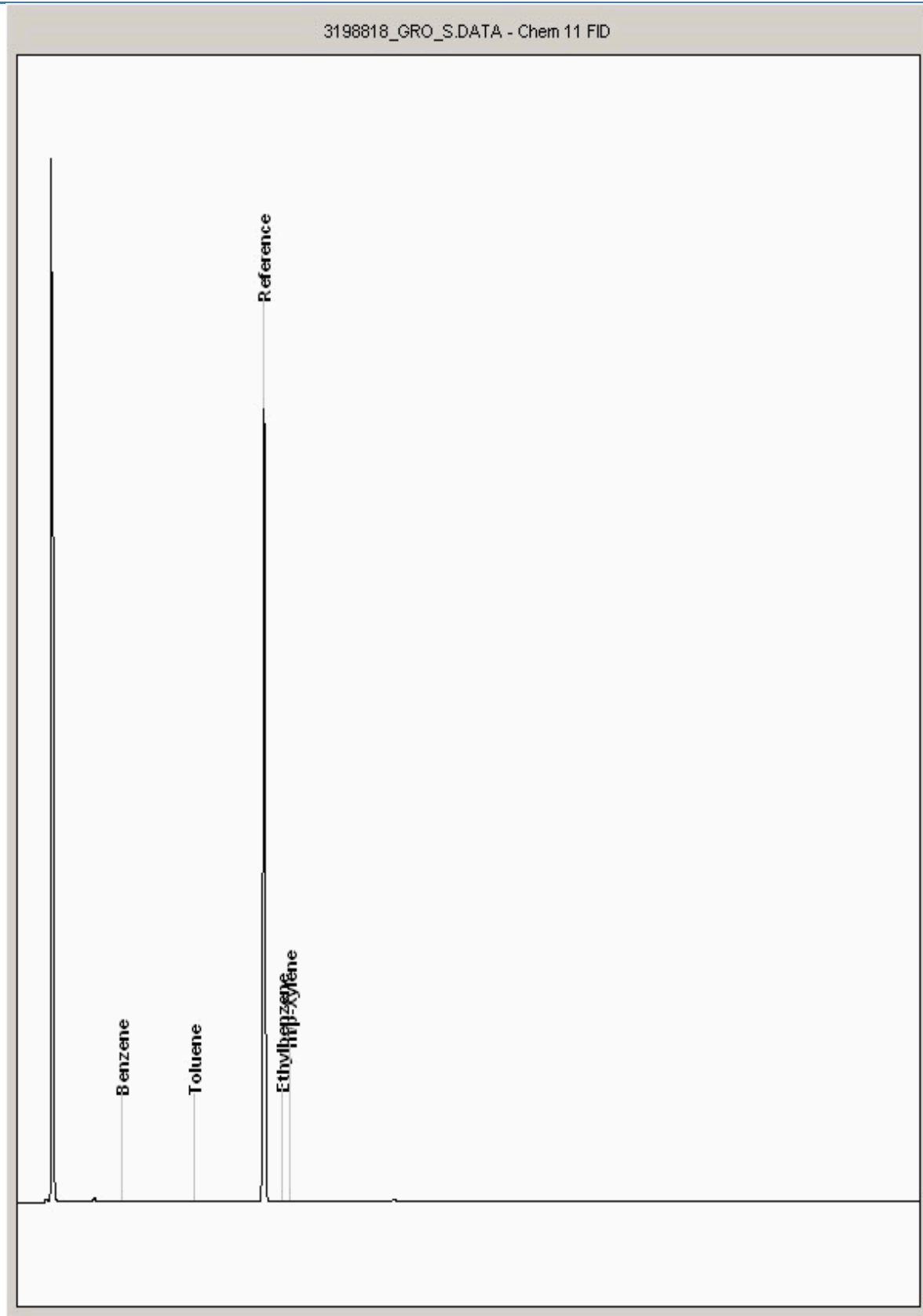
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198818
Sample ID : CATP076

Depth : 0.70





CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

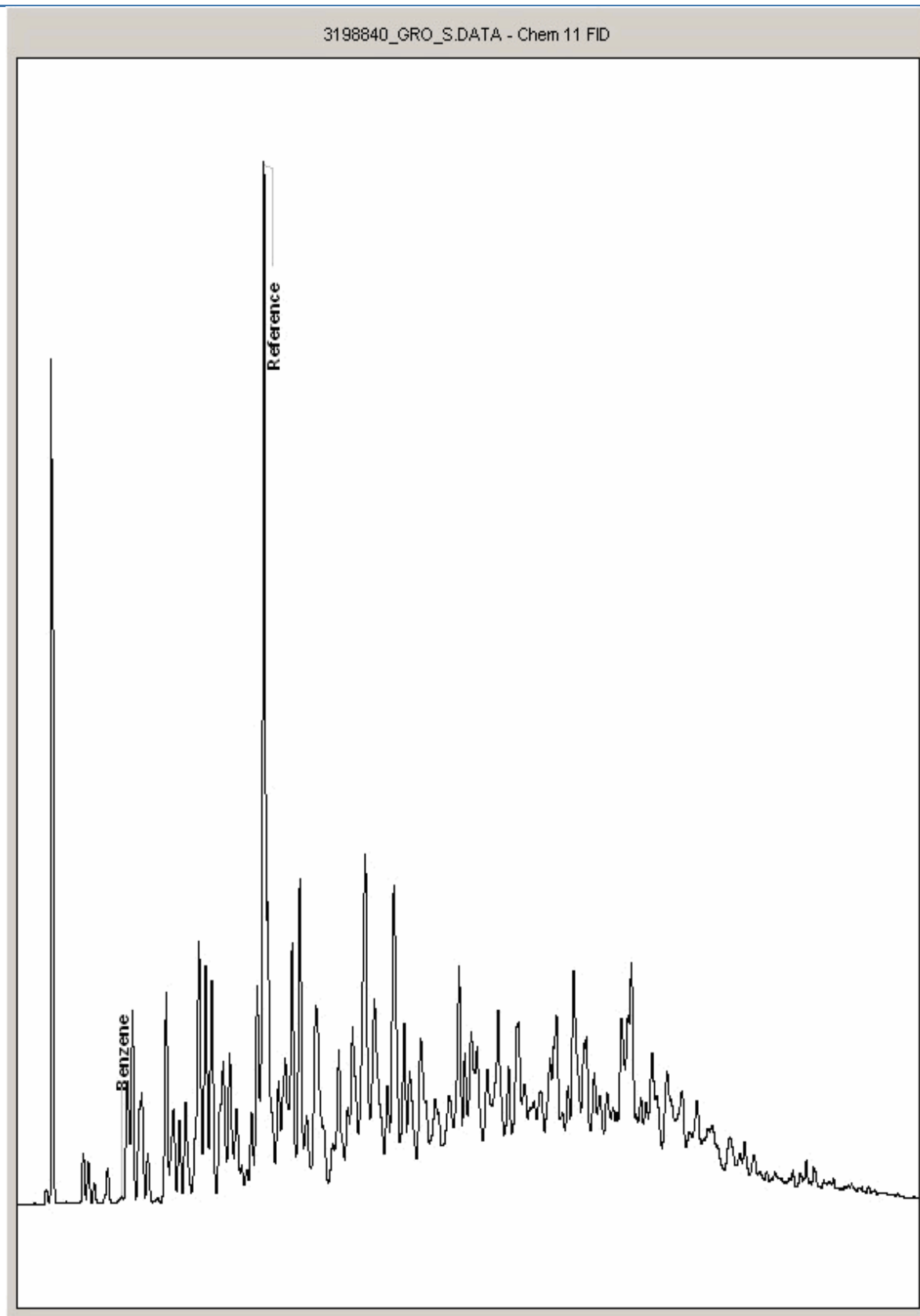
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198840
Sample ID : CATP076

Depth : 1.50





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

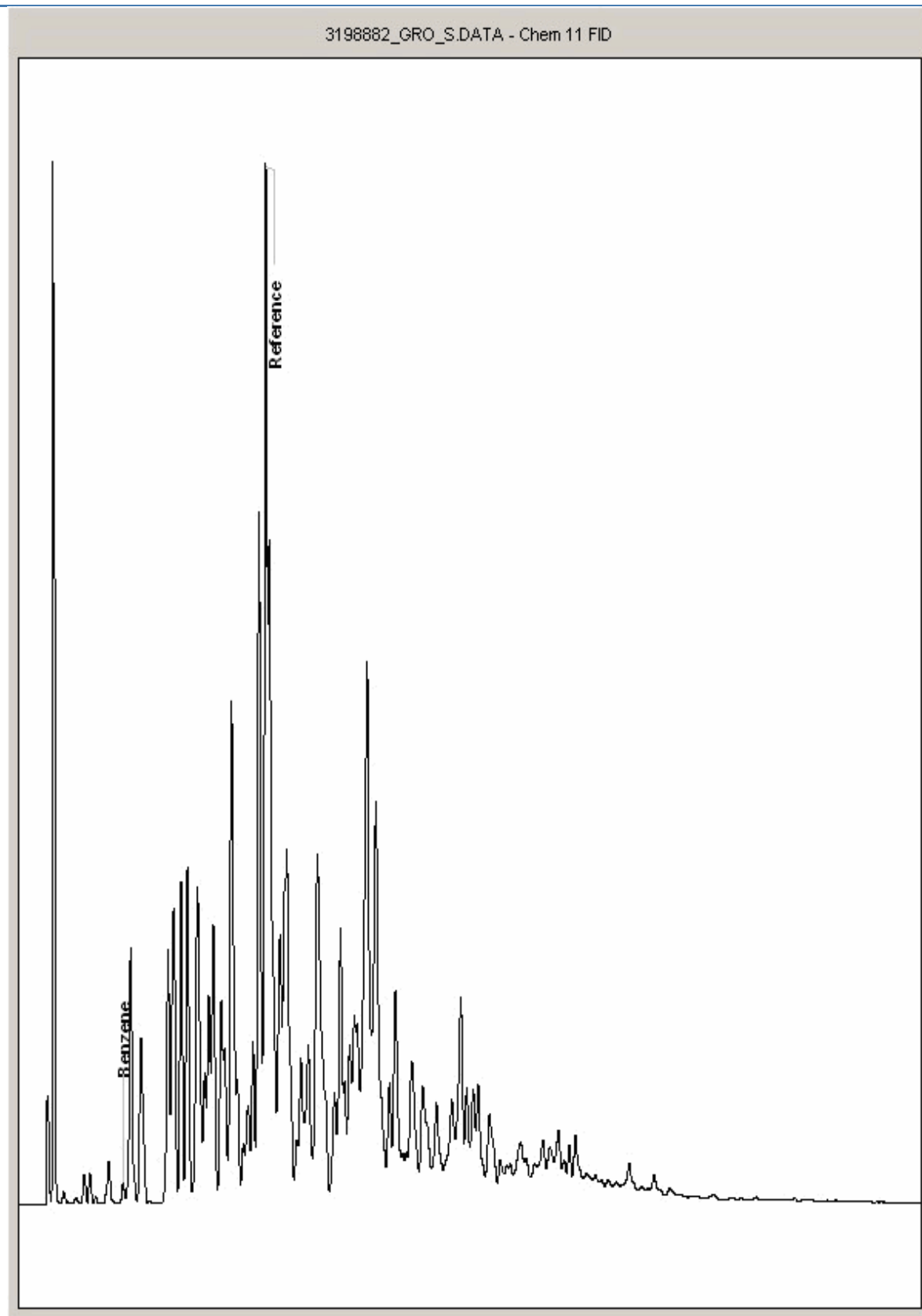
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198882
Sample ID : CATP074

Depth : 0.90





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

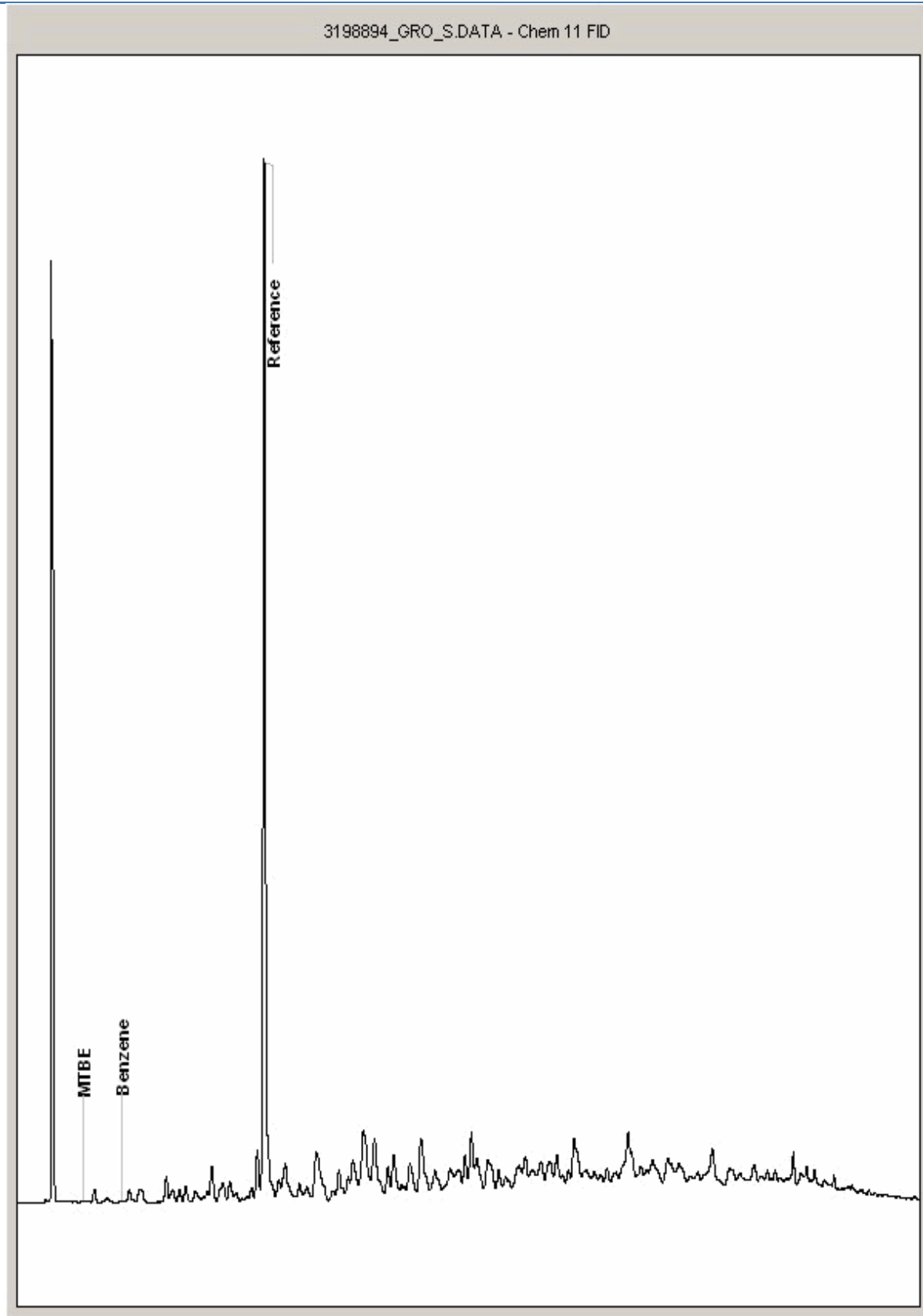
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198894
Sample ID : CATP074

Depth : 1.50





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

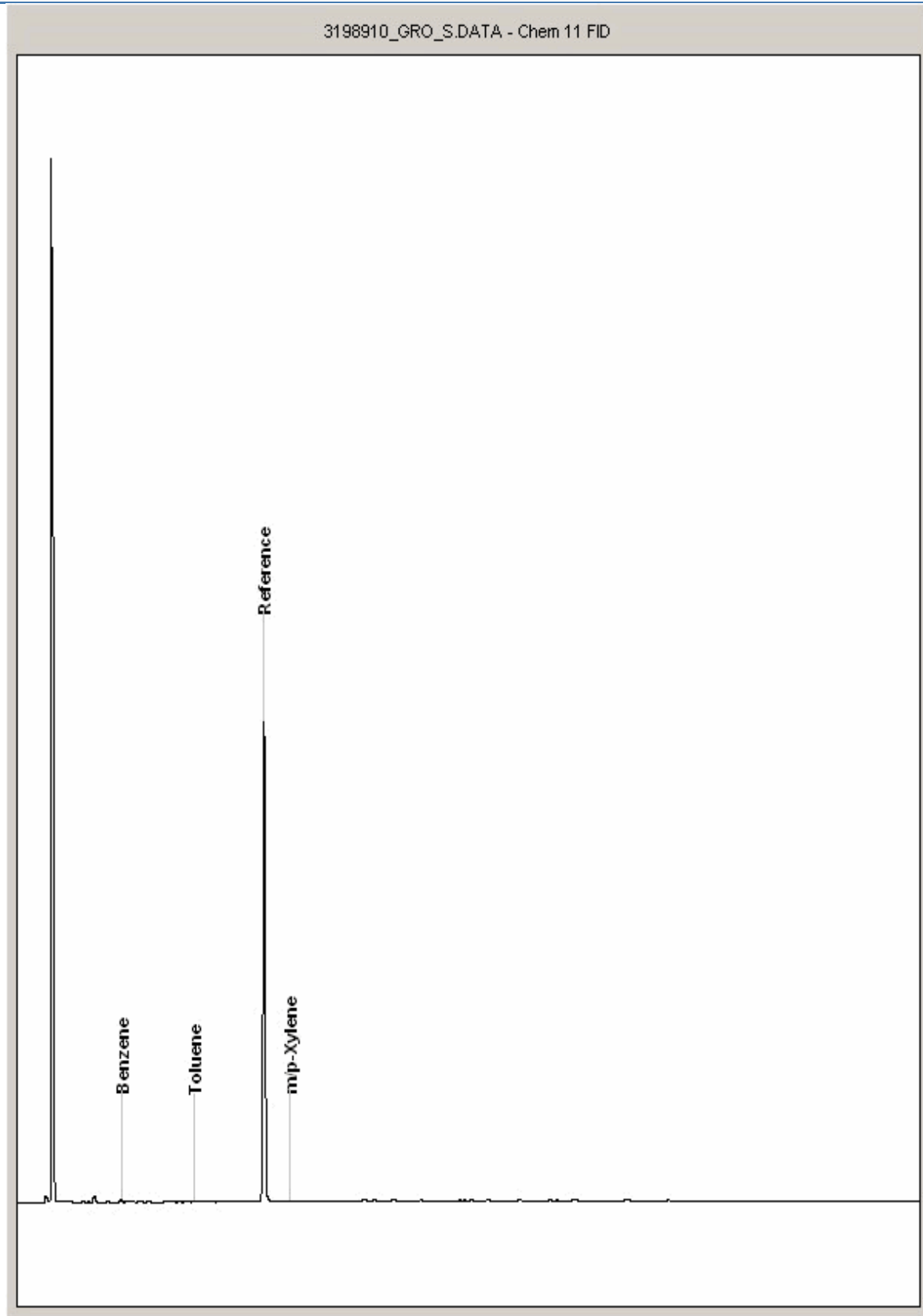
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198910
Sample ID : CATP078

Depth : 1.10





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

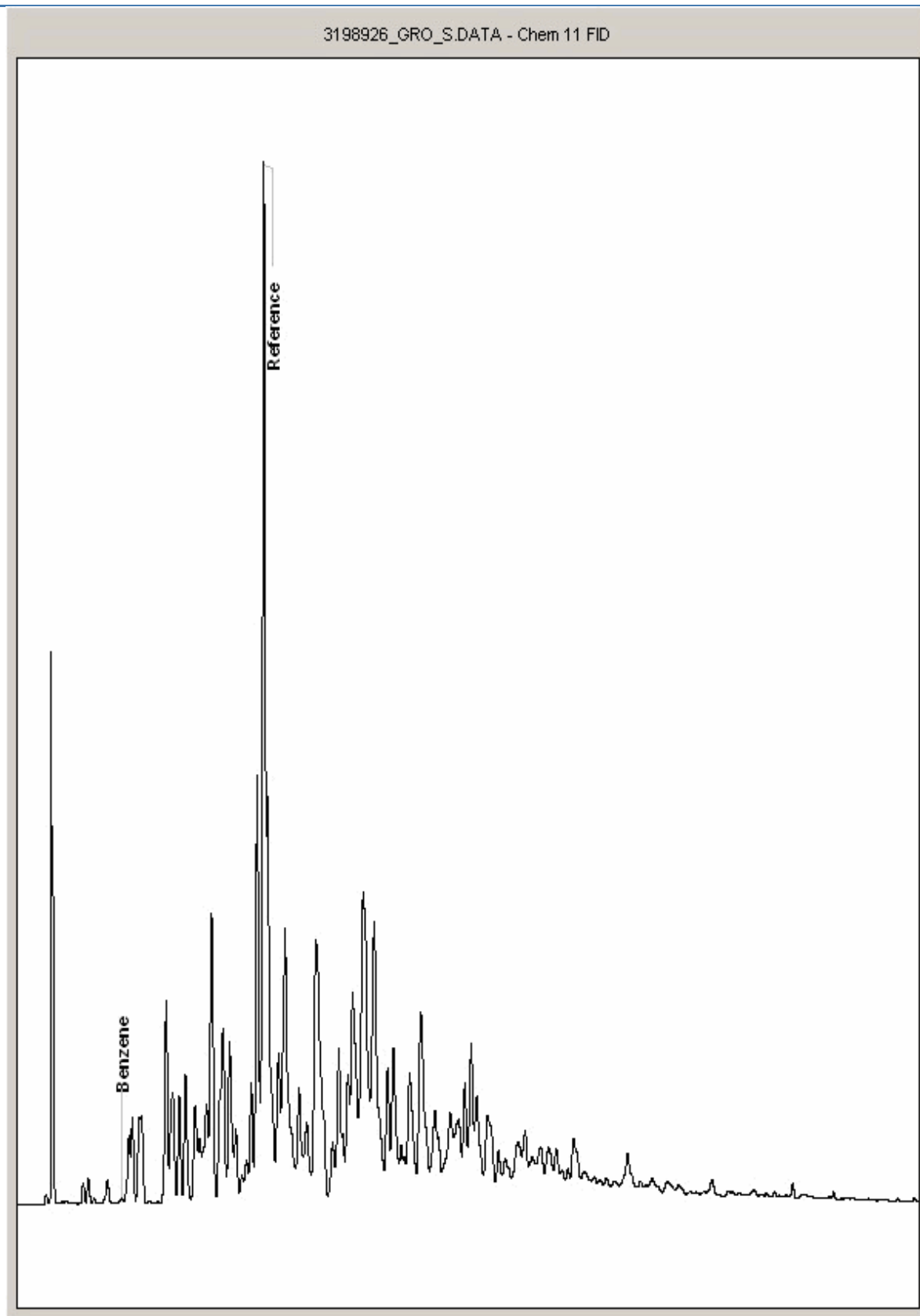
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198926
Sample ID : CATP078

Depth : 2.10





CERTIFICATE OF ANALYSIS

SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

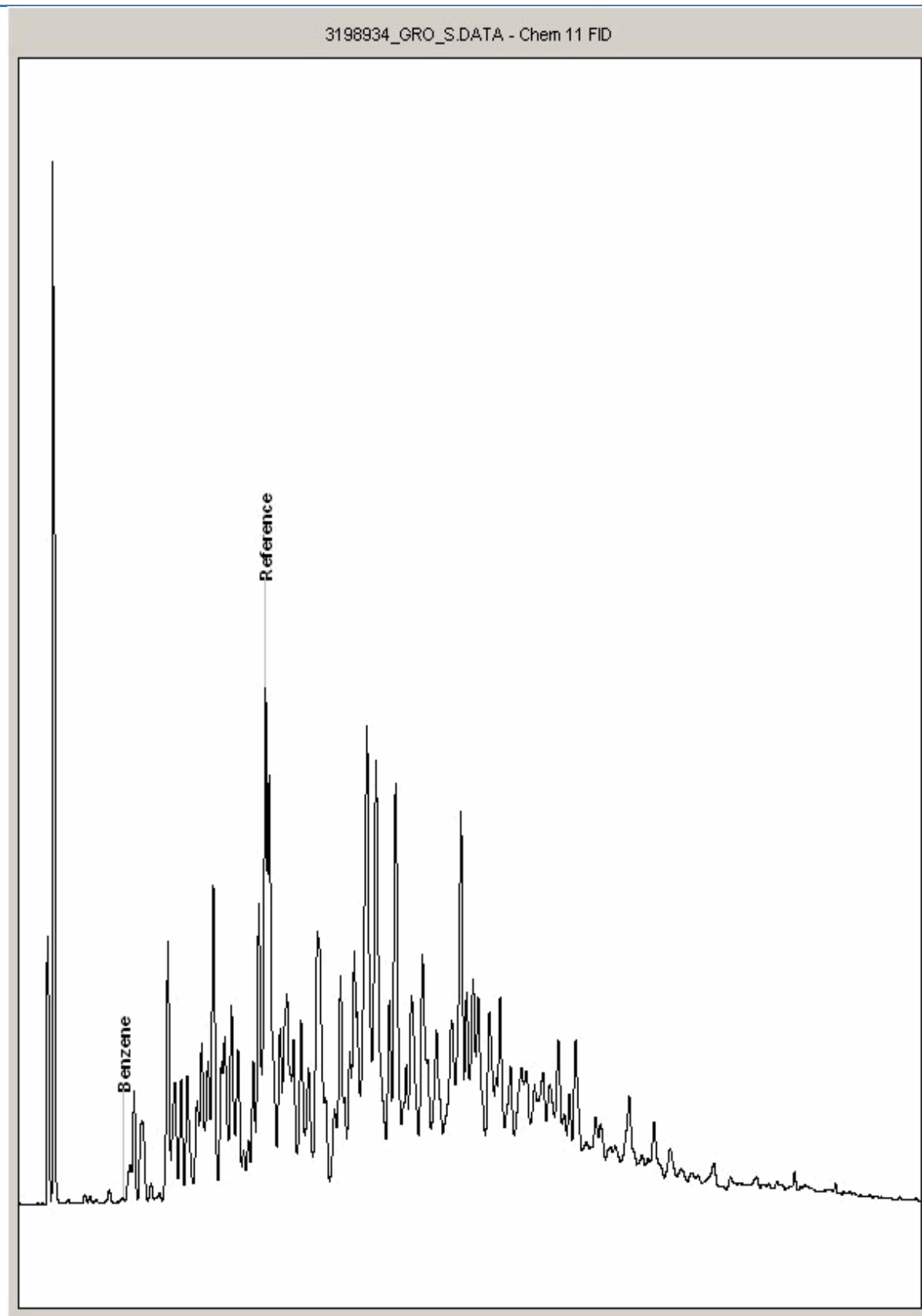
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198934
Sample ID : CATP079

Depth : 0.70





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

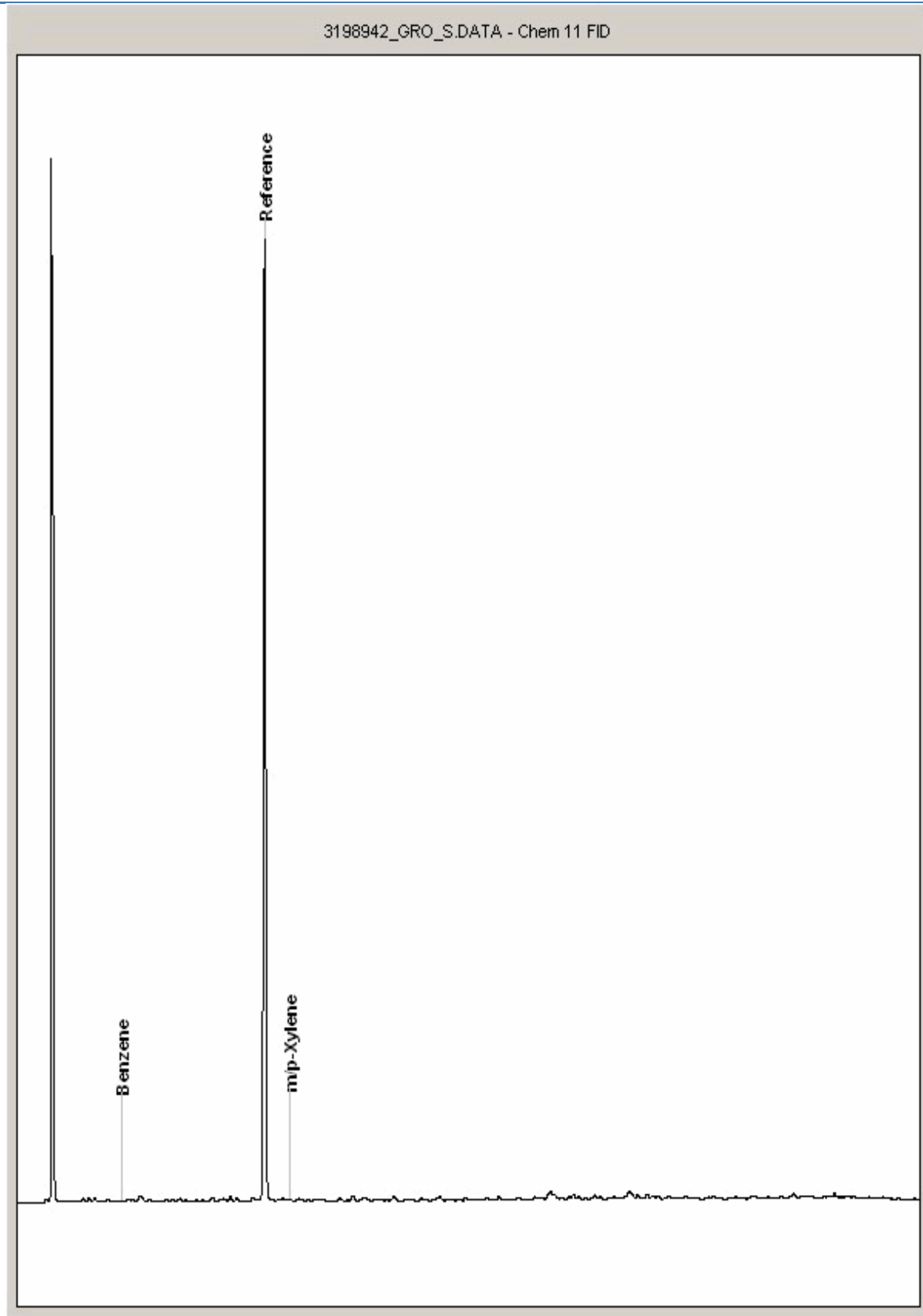
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198942
Sample ID : CATP079

Depth : 1.70





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

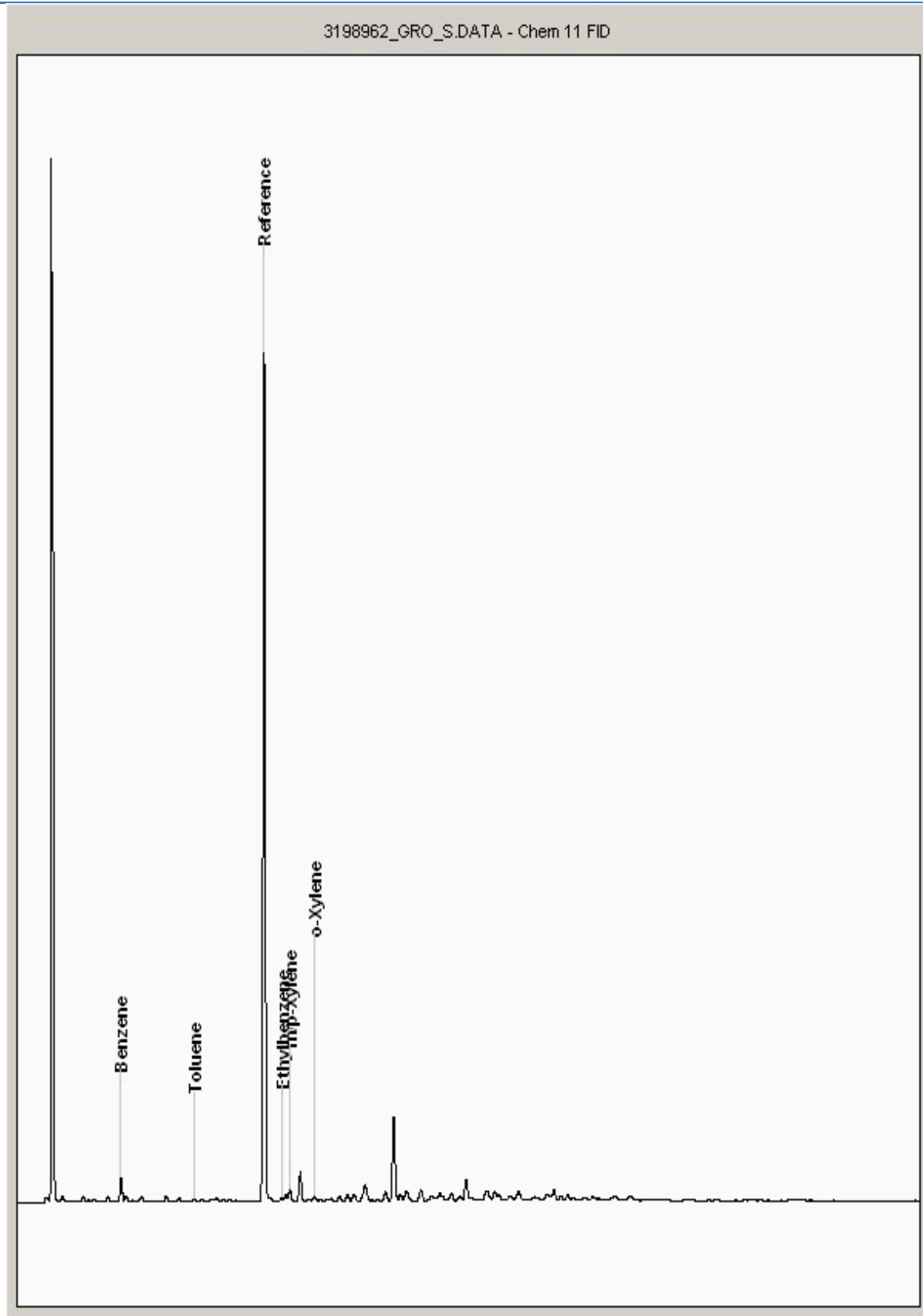
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198962
Sample ID : CATP079

Depth : 2.70





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

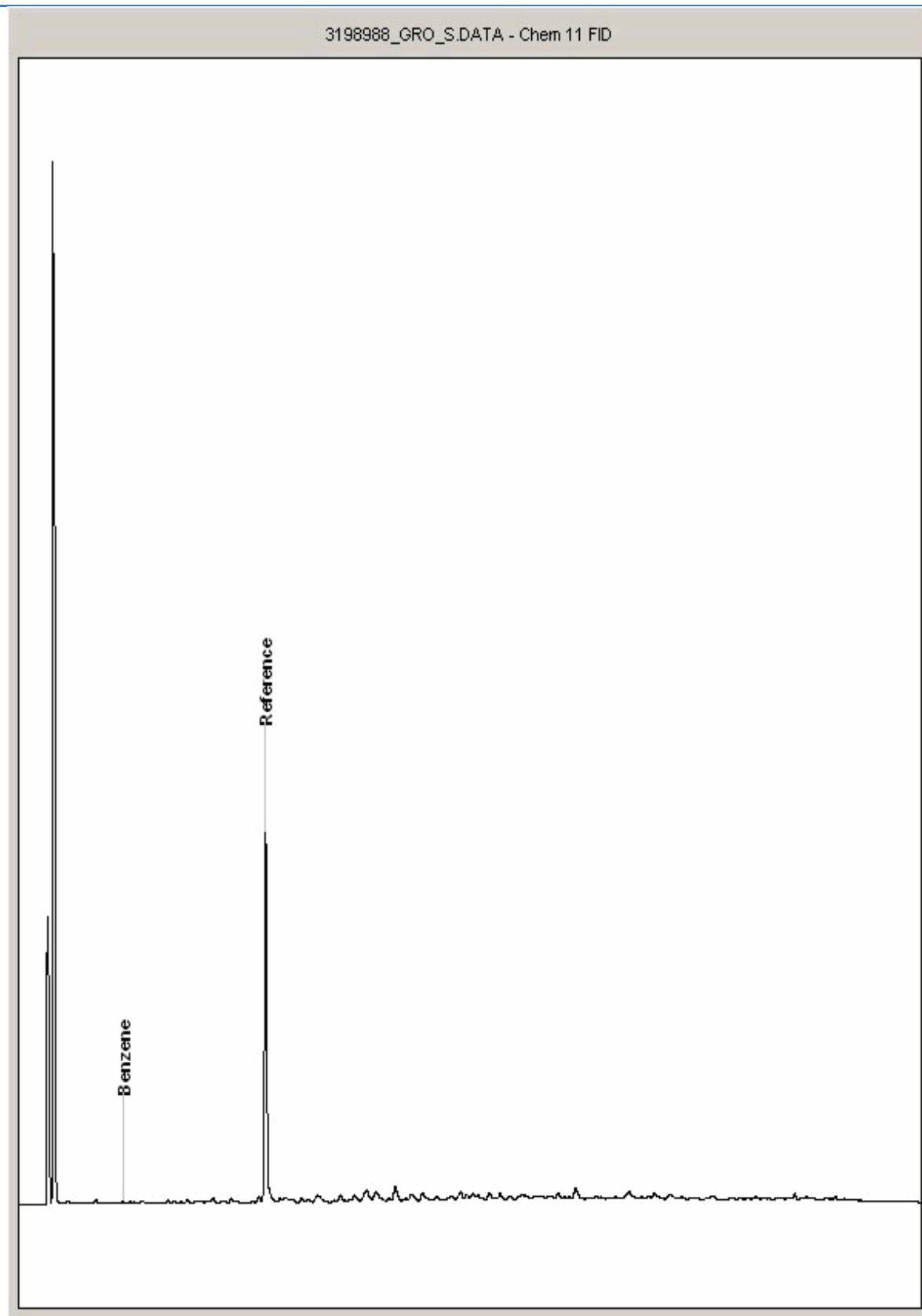
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3198988
Sample ID : CATP077

Depth : 0.80





SDG: 110331-62
Job: H_ATKINS_LDC-109
Client Reference: Commercial Area

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Selina Bamforth

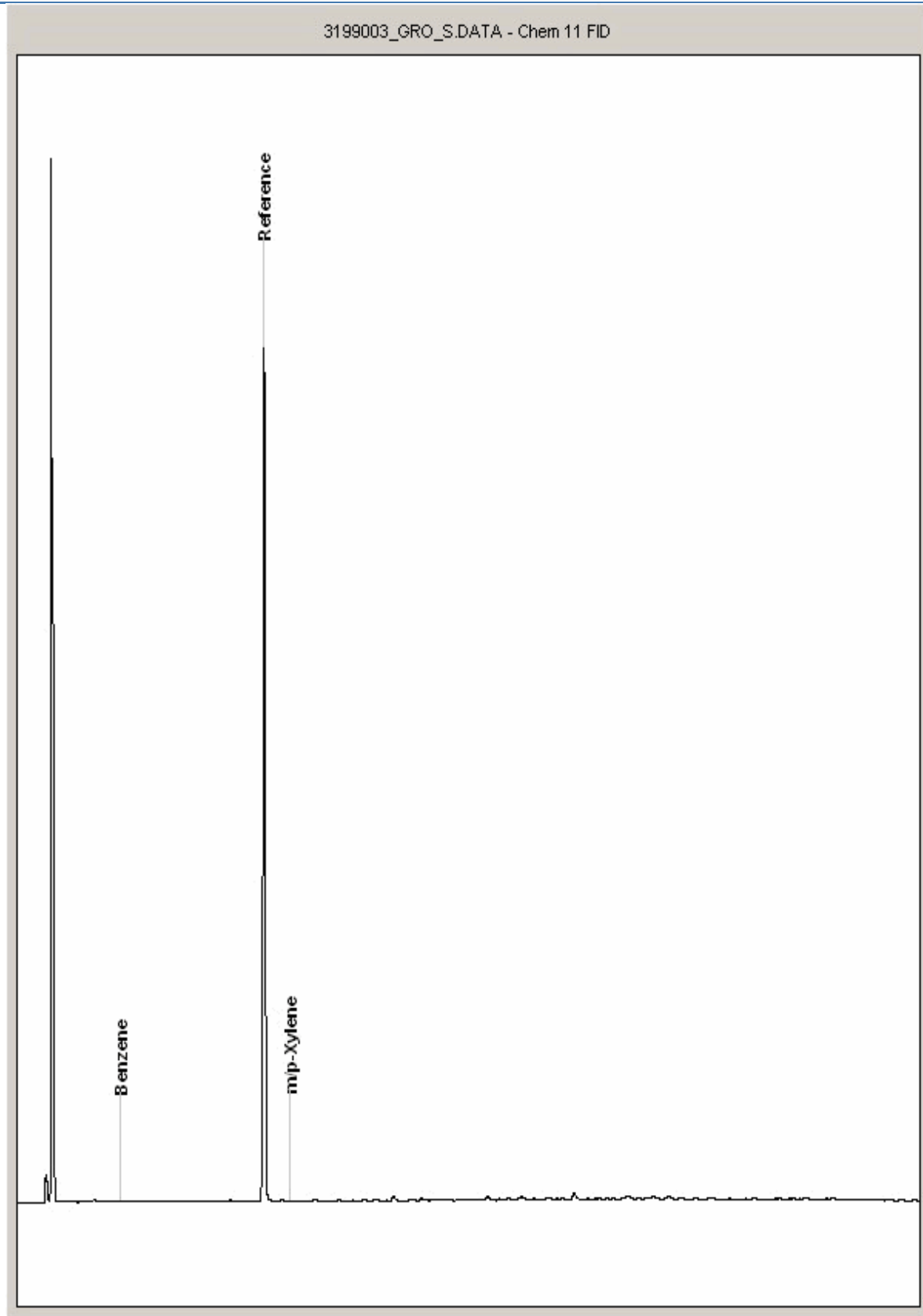
Order Number:
Report Number: 125159
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3199003
Sample ID : CATP077

Depth : 1.40





CERTIFICATE OF ANALYSIS

SDG:	110331-62	Location:	Coed Darcy Urban Village	Order Number:	
Job:	H_ATKINS_LDC-109	Customer:	Atkins Global Ltd	Report Number:	125159
Client Reference:	Commercial Area	Attention:	Selina Bamforth	Superseded Report:	

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH4 by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.

7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample -similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.

12. Results relate only to the items tested

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene only is not accredited.

19. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

20. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

23. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials -whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

24. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C4 -C10 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

SOLID MATRICES EXTRACTION SUMMARY				
ANALYSIS	D/C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
SOLVENT EXTRACTABLE MATTER	D&C	DCM	SOX THERM	GRAVIMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOX THERM	GRAVIMETRIC
THIN LAYER CHROMATOGRAPHY	D&C	DCM	SOX THERM	ATROSCAN
ELEMENTAL SULPHUR	D&C	DCM	SOX THERM	HPLC
PHENOLSBY GCMS	WET	DCM	SOX THERM	GCMS
HERBICIDES	D&C	HEXANEACETONE	SOX THERM	GCMS
PESTICIDES	D&C	HEXANEACETONE	SOX THERM	GCMS
EPH (DRO)	D&C	HEXANEACETONE	END OVEREND	GC-FD
EPH (MINOL)	D&C	HEXANEACETONE	END OVEREND	GC-FD
EPH (CLEANED UP)	D&C	HEXANEACETONE	END OVEREND	GC-FD
EPH CWG BY GC	D&C	HEXANEACETONE	END OVEREND	GC-FD
PCB TOT/PCB CON	D&C	HEXANEACETONE	END OVEREND	GCMS
POLYAROMATIC HYDROCARBONS (MS)	WET	HEXANEACETONE	MICROWAVE TM218	GCMS
C8-C40(C6-C40)EZ FLASH	WET	HEXANEACETONE	SHAKER	GC-EZ
POLYAROMATIC HYDROCARBONS RAPID GC	WET	HEXANEACETONE	SHAKER	GC-EZ
SEM VOLATILE ORGANIC COMPOUNDS	WET	DCMACETONE	SONICATE	GCMS

LIQUID MATRICES EXTRACTION SUMMARY			
ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAHMS	HEXANE	STIRRED EXTRACTION (STIR -BAR)	GCMS
EPH	HEXANE	STIRRED EXTRACTION (STIR -BAR)	GC FD
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR -BAR)	GC FD
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR -BAR)	GC FD
PCB 7COGENERS	HEXANE	STIRRED EXTRACTION (STIR -BAR)	GCMS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR -BAR)	GCMS
SVOC	DCM	LIQUID/LIQUID SHAKE	GCMS
FREE SULPHUR	DCM	SOLID PHASE EXTRACTION	HPLC
PESTOC/OPP	DCM	LIQUID/LIQUID SHAKE	GCMS
TRAZNE HERBS	DCM	LIQUID/LIQUID SHAKE	GCMS
PHENOL SMS	DCM	SOLID PHASE EXTRACTION	GCMS
TPH by INFRARED (R)	TCE	LIQUID/LIQUID SHAKE	HPLC
MINERAL OIL by R	TCE	LIQUID/LIQUID SHAKE	HPLC
GLYCOLS	NONE	DIRECT INJECTION	GCMS

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Appendix G. Adopted Thresholds

Lowest of the Remedial Target Criterion/Risk Based Screening Level for Commercial land use, Shallow Soil

Contaminant	Minimum RBSL/ RTC 1% (mg/kg)	Minimum of RBSL/ RTC 3% (mg/kg)
Arsenic	500	500
Chromium	365	365
Cadmium	243	243
Mercury (inorganic)	480	480
Nickel	1990	1990
Selenium	8000	8000
Lead	750	750
Vanadium	7590	7590
Copper	115000	115000
Zinc	918000	918000
Benzo(a)pyrene	24.7	24.8
Benzene	5	5
Toluene	1160	1160
Ethylbenzene	122000	122000
Xylene	121000	121000
TPH aromatic C7-C8	1840	1840
TPH aromatic C8-C10	913	913
TPH aromatic C10-C12	26515	26515
TPH aromatic C12-C16	64875	64875
TPH aliphatic C6-C8	≤1.00E+06	≤1.00E+06
TPH aliphatic C8-C10	158890	158890
TPH aliphatic C10-C12	163360	163360
TPH aliphatic C12-C16	169032	169032
TPH aromatic C16-C21	28500	28500
TPH aromatic C21-C35	28500	28500
TPH aliphatic C16-C21	≤1.00E+06	≤1.00E+06
TPH aliphatic C21-C35	≤1.00E+06	≤1.00E+06
Total TPH (Phase 1)	81413	81413
Total TPH (Process Area)	44344	44344
Total TPH (North Tank Farm)	25875	25875
Total TPH (South Tank Farm)	37230	37230
1,2-Dichloroethane	0.401	2
1,1,1-Trichloroethane	443	3140
Tetrachloroethene	103	788
Trichloroethene	7.48	54.9
Vinyl chloride	0.045	0.174
Dichloromethane	158	734
Cis-1,2-Dichloroethene	8.7	53
Trans-1,2 Dichloroethene	13.8	87.7
Chromium III	221000	221000
Acenaphthene	109000 a	106000
Anthracene	539000	545000
Benzo(a)anthracene	222	242
Benzo(b)fluoranthene	246	247
Benzo(g,h,i)perylene	2490	2500
Benzo(k)fluoranthene	2470	2480
Chrysene	24100	24500
Dibenz(a,h)anthracene	24.6	24.9
Fluoranthene	72500	72700
Fluorene	68400	72200
Indeno(1,2,3-cd)pyrene	245	247
Pyrene	54300	54500
Phenol	686	1720
Mercury, methyl	418 a	411
Mercury, elemental	4.3	12.9
Naphthalene	15800 a	29300 a
TPH aliphatic C5-C6	≤1.00E+06	≤1.00E+06
1,1,1,2-Tetrachloroethane	71.4	559
1,1,2,2-Tetrachloroethane	178	1180
Carbon tetrachloride	1.97	14.7
Chlorobenzene (mono)	688 a	2730 a
TPH aromatic C5-C7	17.8	99.8

Notes

a) based on a value produced from following the approach outlined in SR4 for substances at saturation

1. Xylene - the lowest RTC of the three isomers has been presented. Users must consider total exposure from all xylene isomers and not consider them in isolation.

2. TPH aromatic C7-C8 is considered to comprise toluene only by Atkins

3. It is assumed that no visible free product is present within the top 1.0m of soil. The presence of free product should be assessed in accordance with information in the S106

4. In the S106 only one value was presented for 1,2-dichloroethene of 273 mg/kg

5. 'Total' TPH RBSL derived for an area of development, based on individual RBSL and available mass fraction TPH data in soil at time of derivation, using the inverse weighted average approach

6. The values for metals may not be protective of phytotoxic effects

7. Benzo(a)pyrene RBSL to be compared against sum of 16 US EPA Priority List PAHs using Toxicity Equivalence approach

8. No RTC was produced for total TPH as this will be considered further at validation stage

9. Asbestos has not been considered here as it is being considered in a separate report

10. Additivity for TPHs and PAHs to be undertaken in line with guidance in Atkins report 5041216-REM-RPT-000476

11. Elemental mercury is based on the inhalation pathway only and the saturation limit has been presented

12. TPH aromatic C5-C7 is considered to comprise benzene only by Atkins

13. Values for phenol are calculated to be protective of dermal effects in line with the approach used by the Environment Agency to derive the commercial phenol SGV

Lowest of the Remedial Target Criterion/Risk Based Screening Level for Commercial land use, Deep Soil (>1m)

Contaminant	Minimum RBSL/ RTC 1% (mg/kg)	Minimum of RBSL/ RTC 3% (mg/kg)
Benzo(a)pyrene	>sat	>sat
Benzene	5	5
Toluene	389	389
Ethylbenzene	>sat	>sat
Xylene	>sat	>sat
TPH aromatic C7-C8	617	617
TPH aromatic C8-C10	547	547
TPH aromatic C10-C12	>sat	>sat
TPH aromatic C12-C16	>sat	>sat
TPH aliphatic C6-C8	>sat	>sat
TPH aliphatic C8-C10	>sat	>sat
TPH aliphatic C10-C12	>sat	>sat
TPH aliphatic C12-C16	>sat	>sat
TPH aliphatic C16-C21	None	None
TPH aliphatic C21-C35	None	None
TPH aromatic C16-C21	None	None
TPH aromatic C21-C35	None	None
Total TPH (Phase 1)	81956	81956
Total TPH (Process Area)	35014	35014
Total TPH (North Tank Farm)	13974	13974
Total TPH (South Tank Farm)	34797	34797
1,2-Dichloroethane	0.65	0.65
1,1,1-Trichloroethane	3250	3250
Tetrachloroethene	368	368
Trichloroethene	28	28
Vinyl chloride	0.154	0.214
Dichloromethane	665	665
Cis-1,2-Dichloroethene	35.1	67
Trans-1,2 Dichloroethene	53.4	91
Acenaphthene	>sat	>sat
Anthracene	>sat	>sat
Benzo(a)anthracene	>sat	>sat
Benzo(b)fluoranthene	>sat	>sat
Benzo(g,h,i)perylene	>sat	>sat
Benzo(k)fluoranthene	>sat	>sat
Chrysene	>sat	>sat
Dibenz(a,h)anthracene	>sat	>sat
Fluoranthene	>sat	>sat
Fluorene	>sat	>sat
Indeno(1,2,3-cd)pyrene	>sat	>sat
Pyrene	>sat	>sat
Phenol	>sat	>sat
Mercury, methyl	>sat	>sat
Mercury, elemental	>sat	>sat
Naphthalene	>sat	>sat
1,1,1,2-Tetrachloroethane	278	768
1,1,2,2-Tetrachloroethane	718	1720
Carbon tetrachloride	7.34	19
Chlorobenzene (mono)	>sat	>sat
TPH aliphatic C5-C6	>sat	>sat
TPH aromatic C5-C7	71	152

Notes

- Where the lower of the vapour or aqueous saturation limits have been exceeded by the RTC calculated, the hazard quotient is considered to be less than 1 and as such >sat has been presented
- Xylene - the lowest RTC of the three isomers has been presented. Users must consider total exposure from all xylene isomers and not consider them in isolation
- TPH >C16 are not considered to be volatile according to TPHCWG. Consequently the inhalation of vapour pathways have not been considered and therefore no RTC value has been presented here
- "None" indicates theoretical RBSL greater than solubility limit
- In the S106 only one value was presented for 1,2-dichloroethene of 91 mg/kg
- 'Total' TPH RBSL derived for an area of development, based on individual RBSL and available mass fraction TPH data in soil at time of derivation, using the inverse weighted average approach
- Benzo(a)pyrene RBSL to be compared against sum of 16 US EPA Priority List PAHs using Toxicity Equivalence approach
- TPH aromatic C7-C8 is considered to comprise toluene only by Atkins
- No RTC was produced for total TPH as this will be considered further at validation stage
- Asbestos has not been considered here as it is being considered in a separate report
- Additivity for TPHs and PAHs to be undertaken in line with guidance in Atkins report 5041216-REM-RPT-000476
- The potential presence of free product should be assessed in accordance with information in the S106
- TPH aromatic C5-C7 is considered to comprise benzene only by Atkins
- Values for phenol are calculated to be protective of dermal effects in line with the approach used by the Environment Agency to derive the commercial phenol SGV

Contaminant	Lowest of RTC and RBSL
Benzo(a)pyrene	>sat
Benzene	6
Toluene	229
Ethylbenzene	506
Total xylene	607
TPH aromatic C7-C8	97
TPH aromatic C8-C10	>sat
TPH aromatic C10-C12	>sat
TPH aromatic C12-C16	>sat
TPH aromatic C16-C21	none
TPH aromatic C21-C35	none
TPH aliphatic C6-C8	>sat
TPH aliphatic C8-C10	>sat
TPH aliphatic C10-C12	>sat
TPH aliphatic C12-C16	>sat
TPH aliphatic C16-C21	none
TPH aliphatic C21-C35	none
1,2-Dichloroethane	0.82
1,1,1-Trichloroethane	989
Tetrachloroethene	115
Trichloroethene	13
Vinyl chloride	0.3
Dichloromethane	624
Cis-1,2 Dichloroethene	68
Trans-1,2 Dichloroethene	68
Acenaphthene	>sat
Anthracene	>sat
Benzo(a)anthracene	>sat
Benzo(b)fluoranthene	>sat
Benzo(g,h,i)perylene	>sat
Benzo(k)fluoranthene	>sat
Chrysene	>sat
Dibenz(ah)anthracene	>sat
Fluoranthene	>sat
Fluorene	>sat
Indeno(1,2,3-cd)pyrene	>sat
Pyrene	>sat
Phenol	>sat
Mercury (methyl)	>sat
Mercury (elemental)	>sat
TPH aliphatic C5-C6	>sat
1,1,1,2-Tetrachloroethane	133
1,1,2,2-Tetrachloroethane	879
Carbon tetrachloride	2.87
Chlorobenzene (mono)	>sat
Naphthalene	>sat
TPH aromatic C5-C7	11.5

Notes

1. Xylene - the lowest RTC of the three isomers has been presented. Users must consider total exposure from all xylene isomers and not consider them in isolation.

2. TPH aromatic C7-C8 is considered to comprise toluene only by Atkins.

3. "None" indicates theoretical RBSL greater than solubility limit.

4. In the S106, only one value was presented for 1,2-Dichloroethene of 68 mg/l.

5. Where indoor and outdoor values were presented by RBCA, these have been integrated in line with SNIFFER (2003). Where both indoor and outdoor values derived by RBCA were greater than the saturation limit, >sat has been presented. Where indoor values were presented by RBCA, and the outdoor values were >sat, only the indoor values have been presented. Therefore >sat indicates that the theoretical RTC is greater than solubility limit.

6. TPH >C16 are not considered to be volatile according to TPHCWG. Consequently the inhalation of vapour pathways have not been considered.

7. The potential presence of free product should be assessed in accordance with information in the S106.

8. Additivity for TPHs and PAHs to be undertaken in line with guidance in Atkins report 5041216-REM-RPT-000476.

9. TPH aromatic C5-C7 is considered to comprise benzene only by Atkins.

Appendix H.5041216-RAP-TN-0806

Technical Note

Subject:	Coed Darcy Waste Removal		
Reference:	5041216-RAP-TN-0806	Revision:	1
Author:	Matthew Brown	Checker:	Howel Morris
Issued to:	Prosurv/St Modwen Developments	Reviewer:	Howel Morris
Date:	20 th June 2012	Authoriser:	Michelle Lee

Introduction

As part of the ongoing RAP works it became necessary to identify and remove areas of potentially hazardous waste located around the site. These areas of hazardous waste include areas identified by Atkins as containing asbestos and bituminous material within the soils. Given the expiration of the Landfill Tax Exemption at the end of March 2012 any potentially contaminated requiring removal off-site needed to be removed by this date.

Following a brief period of further investigation three predominant types of waste were identified at the site, a stockpile of approximately 250m³ of soil containing bituminous material, asbestos contained within the traffic island near the former refinery entrance and security lodge/car park and assorted waste and skips located across the site.

At Atkins invitation Hydrock submitted a quote for undertaking the waste removal works and were appointed to undertake the works on the 27th March 2012.

Methodology

Following an inspection of the bituminous material on-site and additional chemical analysis to confirm that the tar was not coal based it was proposed by Hydrock that the bituminous material could remain on-site for use in repairing pot holes in the access roads around the site. It was proposed that the best method for separating the material would be using an excavator with a riddling buckets attachment. The riddling bucket would allow for the loose bitumen free soil to pass through the bucket whilst retaining the pockets of bituminous material allowing for the two to be segregated.

Two phases of ground investigation have been undertaken in the road traffic island near the former refinery entrance which identified broken asbestos sheeting buried in the island. Asbestos is classified as a hazardous waste and as such would have to be disposed of off-site to a suitably licensed landfill. Hydrock proposed to dampen the soil containing the asbestos before loading the material in to covered lorries which would transport the material to landfill. A visual inspection of the material would be undertaken by Hydrock and Atkins during excavation in order to verify that as much of the asbestos containing material as practicably possible would be removed. Material suitable for use in a road traffic island would then be used to restore the ground level back to pre-excavation levels.

The general waste identified around the site in skips and drums would be collected by Hydrock in one central area. After collection it is proposed that the skips and waste would be hand sorted in to individual waste streams disposed which would then be disposed of off-site. Any oils or liquids would be passed through Hydrocks water treatment plant located within the Tip area.

Works Undertaken

Following Hydrocks instruction to undertake the waste removal works on the 27th March works commenced to undertake the waste materials identified across the site with the riddling of the bitumen contaminated soils. The soil stockpile was riddled and separated in to two separate stockpiles, one of bitumen contaminated material (100m³) and one of general soil fill (150m³) suitable for re-use in the redevelopment of Coed Darcy.

Asbestos removal was undertaken from the traffic island near the entrance to the site on 30th March 2012. The removal works were observed by Hydrock and an Atkins Engineer. Three 20 tonne tipper lorries were brought to site in order to remove the asbestos contaminated material excavated from the

island. The material excavated was visually inspected for asbestos sheeting by Atkins and Hydrock. In order to minimise the risk of asbestos fibres to other site users the material was dampened prior to excavation by a portable bowser and pressure washer. In total 57.60 tonnes of asbestos contaminated material was removed to landfill for disposal at Viridors Walpole Landfill Site, Bridgwater, Somerset.

The sorting of assorted waste from around site was undertaken over a number of weeks commencing on 27th March when Hydrock were instructed to undertake the works. Waste materials were collected from around the site using a dumper truck, excavator and labourer. Once collected the waste was manually sorted and loaded in to skips prior to off-site disposal. In total three skips were sent to Skip Solutions Waste Transfer Station in Llanelli. Copies of the Transfer notes are attached to this Technical Note. The skips removed from site contained a mixture of wood, paper, metal, general office waste as well as some wood coated with oil/free product.

CVI No

003. HCL11007.

Confirmation of Verbal Instruction(s)

TN761 Horks.

LOCATION: LLANDARCY MAIN SITE - Bitumen Stockpile.CONTRACT TITLE: N.S.R. CONTRACT NO: HCL11007.To: HOWELL MORRIS / MATTHEW BROWN Date: 3-4-12.Your Ref: LEE OWEN (PROSURY). Email to ALEX MANN 27th 2012. MARCH.

Dear Sirs

We confirm the following verbal instruction(s) as given by: ALEX MANN EMAILTo: GRAHAM BEAN. ON: 27th March 2012.

TO SUPPLY EXCAVATOR + OPERATOR TO SEGREGATE THE BITUMEN/TARMAC
OUT OF THE SOIL STOCKPILE BY USING A RIDDLE BUCKET
THE BITUMEN / TARMAC HAS BEEN SEPARATED AND LEFT IN A STOCKPILE
FOR USE ON THE SITE Haul Roads, WITH THE SOIL TO BE RE-USED
ON SITE FOR SITE WORN MATERIALS.

= 3 DAYS Worked - 20T excavator + operator = 27 HOURSCopies to: MA-RLJ-HM-
LO.CVI Initiated By: G. Bean.Name: GRAHAM BEAN.Signed: G. J. Bean.

CVI No

002. HC11007.

Confirmation of Verbal Instruction(s)

TN 761 Works

LOCATION: LARGE ROUNDABOUT at Entrance Way to COED DANCY URBAN VILLAGE.CONTRACT TITLE: N.S.R.CONTRACT NO: HC11007.To: HANDEL MORRIS / MATTHEW BLANN.Date: 30-03-2012. FRIDAYYour Ref: LEE OWEN (PROSOLV) EMAIL to ALEX MANN 27th MARCH 2012.

Dear Sirs

We confirm the following verbal instruction(s) as given by: ALEX MANN (EMAIL)To: GRAHAM BEAN

ON:

27th MARCH 2012.① TO SUPPLY TIPPER LORRY'S TO EXCAVATE AND LOAD SOILS CONTAINING
BROKEN ASBESTOS ROOF SHEETS ON THE ROUNDABOUT TO THE MAIN COED DANCY
ENTRANCE.② NOT EXCAVATOR LOADING SOILS ONTO THE LORRY'S, THE SOILS DAMPENED
DOWN WITH WATER BEFORE EXCAVATION'S.③ THE ASBESTOS SOILS THUS TAKEN TO VINDOR LANDFILL SITE, WALPOLE.
PAWLEY, BRIDGWATER, SOMERSET, TA6 4TP. FOR DISPOSAL.④ WORKS SUPERVISED BY GRAHAM BEAN / MATTHEW TIMMINGS (ATKINS)

NOTE !! 6-70 TONNES OF MATERIAL OVER LANDFILL TAX
TO BE charged for !!!

EXCAVATOR + OPERATOR	= 4 HOURS
PRESSURE WASHING BOILER	= 4 HOURS
1 SUPERVISOR	= 4 HOURS
1 LABOUR	= 4 HOURS

3 x 8 WHEEL TIPPER LORRY'S HAULAGE PER LOAD.
CONTAMINATED ASBESTOS SOILS TIPPED = 56-70 TONNES
LANDFILL TAX FOR 6-70 TONNES AS OVER 56 TONNES EXEMPTION.

Copies to: MR-RLT-HM-LOCVI Initiated By: G. Bean.Name: GRAHAM BEAN:Signed: G. J. Bean.

Viridor

Walpole Landfill
Pawlett
Bridgwater
Somerset

TICKET : W182386
DATE : 30/03/2012
TIME : 11:38
Incoming

Telephone / Fax : 01278 685182/
Site Licence : BK6785
LFT Reg No : 01010 1183 51000

CONSEC	DATE	TIME	WEIGHT	
024586	30/03/2012	11:38	31260kg	1st Wt
006746	30/03/2012	12:02	12760kg	2nd Wt
			18500kg	NET Wt

Measure : 18.50 TONNES

Haulier : HYDROCK CONTRACTING LIMITED
Customer : HYDROCK CONTRACTING LIMITED
(HYD007U) OVER COURT BARNS
OVER LANE
ALMONDSBURY

Vehicle Reg : CN58CZW
Vehicle Type : Tipper

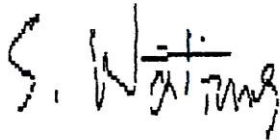
Charge Cat. : 170503X Cont Sp Soil Exempt
EWC Code : 17 05 03 soil and stones containing
dangerous substances - below threshold

origin : 72NK Not Known

Transfer No. : NSU516/00003
LFT Exempt :
Order Number : HC11002/6248
Comments : 55834
Driver :

This waste meets all appropriate regulatory pre-treatment requirements to allow it to be legally landfilled.

I have read and understand the safety instructions for Visiting Drivers (Customers) and will abide by the rules set out therein.



FDUKE

A record of weights is retained for a period of Six Months.

The Hazardous Waste Regulations 2005: Consignment Note

Hydrock

PRODUCER'S/HOLDER'S/CONSIGNOR'S COPY (Delete as appropriate)

PART A Notification details

- 1 Consignment note code: **N3U516100003**
- 2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): **HYDROCK CONTRACTING, FORMER BPOIL REGIMENT, LLANDAREY, NEATH. SA106HT.**
- 3 Premises code (where applicable): **N3U516**
- 4 The waste will be taken to (name, address and postcode): **VIRIDEL LTD. WALPOLE LANDFILL SITE, PAWLETT, BRIDGWATER, SOMERSET, TA6 4TF.**
- 5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

PART B Description of the waste

If continuation sheet used, tick here

- 1 The process giving rise to the waste(s) was: **DEMOLITION**
- 2 SIC for the process giving rise to the waste: **45.1111**
- 3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)
- | Description of waste | List of wastes (EWC code)(6 digits) | Quantity (kg) | The chemical/biological components in the waste and their concentrations are: | | Physical form (gas, liquid, solid, powder, sludge or mixed) | Hazard code(s) | Container type, number and size |
|---------------------------------------|-------------------------------------|---------------|---|----------------------------|---|----------------|---------------------------------|
| | | | Component | Concentration (% or mg/kg) | | | |
| ASBESTOS SOILS (CEMENT RANDED) | 170605 | 25M3 | ASBESTOS | <15% | SOLID | H7 | RM TIPPER |

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements
170605	2590	White ASBESTOS	9	III	PPE (RPE (P3)).

PART C Carrier's certificate

PART D Consignor's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here: ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

Where this note comprises part of a multiple collection the record number and collection number are:

CNS8 CZW / N30516 1000031 Carrier name: **NEAL SOILS SUPPLIES LTD.**

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Hydrock Contracting Ltd., Overcourt Barns, Over Lane, Almondsbury, Bristol BS32 4DF.

2 Carrier registration no./reason for exemption:

CB1VNS718RP. / HYDROCK CB/HP3199BA.

3 Vehicle registration no. (or mode of transport, if not road):

Signature **S. Walling** **CNS8 CZW**Date **30032012** Time **0900**

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011. ☒1 Consignor name: **GRAHAM BEAN.**On behalf of (name, address, postcode, telephone, e-mail, facsimile): **HYDROCK CONTRACTING, Overcourt Barns, Over Lane, Almondsbury, Bristol BS32 4DF.**Signature **G. J. Bean.**Date **30032012** Time **0900**

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170605	18500	Accepted	DOS

1 I received this waste at the address given in A4 on: Date **30032012** Time **1200**2 Vehicle registration no. (or mode of transport if not road): **CNS8 CZW**

3 Where waste is rejected please provide details:

I certify that waste permit/exempt waste operation number:

BK6785

authorises the management of the waste described in B at the address given in A4.

Where the consignment forms part of a multiple collection, as identified in Part C, I certify that the total number of consignments forming the collection are:

Name: **Viridor**
On behalf of (name, address, postcode, telephone, e-mail, facsimile):**Walpole Landfill Site
Pawlett, Bridgwater
Somerset, TA6 4TF
Tel: 01278 685182
BK6785, WML26210**Signature **Viridor**Date **30032012** Time **1200**

Viridor

Walpole Landfill
Pawlett
Bridgwater
Somerset

TICKET : W182376
DATE : 30/03/2012
TIME : 11:06
Incoming

Telephone / Fax : 01278 685182/
Site Licence : BK6785
LFT Reg No : 01010 1183 51000

CONSEC	DATE	TIME	WEIGHT	
024576	30/03/2012	11:08	31860kg	1st wt
006742	30/03/2012	11:34	12780kg	2nd wt
			19080kg	NET Wt

Measure : 19.08 TONNES

Haulier : HYDROCK CONTRACTING LIMITED
Customer : HYDROCK CONTRACTING LIMITED
(HYD007U) OVER COURT BARN
OVER LANE
ALMONDSBURY

Vehicle Reg : CN58BPF
Vehicle Type : Tipper

Charge Cat. : 170503X Cont Sp Soil Exempt
EWC Code : 17 05 03 soil and stones containing
dangerous substances - below threshold

Origin : 72NK Not Known

Transfer No. : NSU516/00002
LFT Exempt :
Order Number : HC11002/6248
Comments : 53843
Driver :

This waste meets all appropriate regulatory pre-treatment requirements to allow it to be legally landfilled.

I have read and understand the safety instructions for Visiting Drivers (Customers) and will abide by the rules set out therein.



FDUKE

A record of weights is retained for a period of Six Months.

The Hazardous Waste Regulations 2005: Consignment Note

Hydrock

PRODUCER'S/HOLDER'S/CONSIGNOR'S COPY (Delete as appropriate)

PART A Notification details

1 Consignment note code: **NSUS16100002**2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile): **Hydrock Contracting
Former BP Oil Refinery,
LLANDARCY, NEATH. SA 10 6HT.**4 The waste will be taken to (name, address and postcode): **Viridor Ltd. Walpole Landfill Site,
PAWLETT, BRIDGWATER, Somerset.
TA6 4TF.**

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

3 Premises code (where applicable): **170605**

PART B Description of the waste

If continuation sheet used, tick here ☐1 The process giving rise to the waste(s) was: **Demolition**2 SIC for the process giving rise to the waste: **45.11.1**

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components in the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
Asbestos Soils Cement Banded	170605	25 ^{kg}	ASBESTOS	<15%	Solid	H7	8Wh TIPP

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements
17060525	40	White Asbestos	9	III	PPG/IRPE(P5)

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

Where this note comprises part of a multiple collection the round number and collection number are:

CNS8 BPF / NSUS16 100021 Carrier name: **NEAL SOIL SUPPLIES LTD.**On behalf of (name, address, postcode, telephone, e-mail, facsimile): **Hydrock Contracting Ltd. Almondsbury,
Overcourt Barns, Over Lane,
Bristol BS32 4DF**2 Carrier registration no./reason for exemption: **CB/VNS5718RP. / Hydrock CB/HP3199BA.**

3 Vehicle registration no. (for mode of transport, if not road):

Signature **J. L.** **CNS8 BPF**Date **30032012** Time **0848**

PART D Consignor's certificate

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011. ☒

1 Consignor name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile): **Hydrock Contracting,
Overcourt Barns, Over Lane,
Almondsbury,
Bristol BS32 4DF**Signature **G. J. B.**Date **30032012** Time **0848**

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170605	19080	Accepted	D05

1 I received this waste at the address given in A4 on: Date **30032012** Time **1134**2 Vehicle registration no. (for mode of transport if not road): **CNS8 BPF**

3 Where waste is rejected please provide details:

I certify that waste permit/exempt waste operation number:

BK6785

authorises the management of the waste described in B at the address given in A4.

Where the consignment forms part of a multiple collection, as identified in Part C, I certify that the total number of consignments forming the collection are:

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile): **Viridor****Walpole Landfill Site
Pawlett, Bridgwater
Somerset, TA6 4TF
Tel: 01278 685182
BK6785, WML26210**

Signature

Date **30032012** Time **1134**

Viridor

Walpole Landfill
Pawlett
Bridgwater
Somerset

TICKET : W182377
DATE : 30/03/2012
TIME : 11:10
Incoming

Telephone / Fax : 01278 685182/
Site Licence : BK6785
LFT Reg No : 01010 1183 51000

CONSEC	DATE	TIME	WEIGHT
024577	30/03/2012	11:12	31880kg 1st wt
006743	30/03/2012	11:37	12760kg 2nd wt
			19120kg NET wt

Measure : 19.12 TONNES

Haulier : HYDROCK CONTRACTING LIMITED
Customer : HYDROCK CONTRACTING LIMITED
(HYD007U) OVER COURT BARNS
OVER LANE
ALMONDSBURY

Vehicle Reg : CN58CZX
Vehicle Type : Tipper

Charge Cat. : 170503X Cont Sp Soil Exempt
EWC Code : 17 05 03 soil and stones containing
dangerous substances - below threshold

Origin : 72NK Not Known

Transfer No. : NSU516/00001
LFT Exempt :
Order Number : HC11002/6248
Comments : 54919
Driver :

This waste meets all appropriate regulatory pre-treatment requirements to allow it to be legally landfilled.

I have read and understand the safety instructions for Visiting Drivers (Customers) and will abide by the rules set out therein.



FDUKE

A record of weights is retained for a period of Six Months.

NEAL NEAL SOIL SUPPLIERS LTD.

SUPPLIERS OF TOP SOIL & PUDDING CLAY AND LANDFILL FACILITIES

Ty-To-Maen Farm, Newton Road, Rumney, Cardiff CF3 2EJ

Tel: (029) 20 797835 Fax: (029) 20 360043

Registered Carrier No. SEW/697343

NEAL SOIL SUPPLIERS LTD. MATERIALS RECEIPT

Tel: 029 2079 7835
Fax: 029 2036 0043

555553

CUSTOMER / PRODUCER <i>hobrock</i>	DATE <i>30/3/12</i>
DRIVER'S NAME <i>SLUGGERTON</i>	VEHICLE REG. NO. <i>CNS8827</i>

VEHICLE CAPACITY	☐ 4 WHEELER ☐ 6 WHEELER ☒ 8 WHEELER
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DESCRIPTION OF LOAD (TICK OFF)
☐ TOPSOIL 17 05 04 ☐ SUB-SOIL 17 05 04
☐ CONSTRUCTION / BUILDER'S WASTE 17 09 04
☐ RECYCLED STONE 19 12 09

OTHERS... *Contam. Sub Soil* (DESCRIBE)

EX SITE

DISPOSAL SITE OPERATOR
coal darcy

CUSTOMER SIG. <i>[Signature]</i>	PRINT NAME <i>BRIDGEMAN</i>
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REGISTERS WASTE CARRIER SEW/697343
WHITE - CLIENT YELLOW - DRIVER BLUE - FILE PINK - FILE

Section A: DESCRIPTION OF WASTE	Section C: WASTE CARRIER	Section D: DISPOSAL FACILITY
1. Please describe waste being transferred: ☐ TOPSOIL 17-05-04 ☐ RECYCLED STONE 19-12-09 ☐ SUBSOIL 17-05-04 ☐ CONSTRUCTION/BUILDERS WASTE 17-09-04 Other EWC No. <i>Contaminated Sub Soil</i> Describe <i>Contaminated Sub Soil</i> 2. How is the waste contained? Loose ☒ Sacks ☐ Skip ☐ Drum ☐ Other (please describe) <i>mult. load</i> 3. What is the quantity of waste? (number of sacks, weight, etc.) <i>mult. load</i>	1. Registered Carriers' Name: Neal Soil Suppliers Ltd. 2. Address: Ty-To-Maen Farm, Newton Road, Rumney, Cardiff CF3 2EJ 3. Registered Carrier No: SEW/697343 4. Issued by: Environment Agency Wales 5. Vehicle Reg. No: <i>CNS8827</i> On behalf of Carrier: Name: <i>SLUGGERTON</i> Date: <i>30/3/12</i> Signature: <i>[Signature]</i>	1. Site Operator: <i>[Signature]</i> 2. Site Name: <i>Vindar walpole</i> 3. Address: <i>Bridge water</i> 4. Site Licence No: <i>[Blank]</i> 5. Issued by: <i>[Blank]</i> 6. Date & Time of Transfer: <i>30/3/12</i> On behalf of Disposer: Name: <i>[Blank]</i> Date: <i>[Blank]</i> Signature: <i>[Blank]</i>

CVI No

004. HC11007.

Confirmation of Verbal Instruction(s)

TN 761 Works.

LOCATION: LLANDALCY MAIN SITE. RUBBISH COLLECTION + DISPOSAL.CONTRACT TITLE: N. S. R. CONTRACT NO: HC11007.To: HOWELL MORRIS / MATTHEW BROWN. Date: 3-4-12.Your Ref: LEE OWEN (PROSUV). EMAIL TO ALEX MANN 27th MARCH 2012.

Dear Sirs

We confirm the following verbal instruction(s) as given by: ALEX MANN EMAIL.To: GRAHAM BROWN. ON: 27th MARCH 2012.

TO SUPPLY PLANT + LABOUR + SKIPS TO REMOVE RUBBISH FROM AROUND
THE MAIN SITE.
1x 20T EXCAVATOR + OPERATOR + 1x DUMPER AND CRAN + 1x LABOUR TO
COLLECT THE WASTE FROM AROUND SITE AND TRANSPORT TO SKIPS. ONCE
SKIPS ARE FULL TO TAKE OFF SITE FOR DISPOSAL AT A LICENSED FACILITY.

= 3 DAYS WORKED.
+ 3rd 35th X General Rubbish Skips

Copies to: MA-RLJ-HM-LO.CVI Initiated By: G. Brown.Name: GRAHAM BROWN.Signed: G. J. Brown.



Skip Solutions Ltd

Taybrite, Heol-Y-Bwlch
Bynea, Llanelli
Carmarthenshire
SA14 9SU

WEIGHBRIDGE NO

Skip Solu/tic
Waste Carriers No. EAN/9634
Waste Management Licence No. EPR/DP3
VAT No. 938 34

Skip Hire & Waste Services
www.skipsolutions.com

Tel: 01554 773324
Fax: 01554 780641
Email: info@skipsolutions.com

SKIP No.

SKIP ①

DATE

10/04/12

WEIGHBRIDGE NOTE No.

1004

THE CUSTOMER

Hydrock Contracting Ltd

THE SITE/LOCATION

TN 761 Molls.
Llandarcy
Neath

WASTE MATERIAL DESCRIPTION

Mixed Waste

EMC CODE

170904

GROSS

24.760T

TARE

14.540T

NETT

10.220T

DRIVER NAME

D. Anderson

VEHICLE No.

T66SKP

CARRIER No.

CASH PAYMENT

NETT

VAT

TOTAL



kip Hire & Waste Services
www.skipsolutions.com

Skip Solutions Ltd
Taybrite, Heol-Y-Bwlch
Bynea, Llanelli
Carmarthenshire
SA14 9SU
Tel: 01554 773324
Fax: 01554 780641
Email: info@skipsolutions.com

WEIGHBRIDGE NO
Skip Solut
Waste Carriers No. EAW/963
Waste Management Licence No. EPR/DP
VAT No. 938:

SKIP No.

Skip 2

DATE

30/04/12

WEIGHBRIDGE NOTE No.

3004

THE CUSTOMER

Hydrock Contracting Ltd

THE SITE/LOCATION

TN 761 Walls

Llandarcy
Neath

WASTE MATERIAL DESCRIPTION

Mixed Waste

EMC CODE

170904

GROSS

23.660T

TARE

15.260T

NETT

8.400T

DRIVER NAME

D. Anderson

VEHICLE No.

T50SKP

CARRIER No.

CASH PAYMENT

NETT

VAT

TOTAL



Skip Hire & Waste Services
www.skipolutions.com

Skip Solutions Ltd
Taybrite, Heol-Y-Bwlch
Bynea, Llanelli
Carmarthenshire
SA14 9SU

Tel: 01554 773324
Fax: 01554 780641
Email: info@skipolutions.com

WEIGHBRIDGE NO1

Skip Solution
Waste Carriers No. EAW96347
Waste Management Licence No. EPR/DP371
VAT No. 938 306

SKIP No.

SKIP 3.

DATE

17/05/2012

WEIGHBRIDGE NOTE No.

5217

THE CUSTOMER

Hydrock

THE SITE/LOCATION

To the Works.
Llandarcy
Neath

WASTE MATERIAL DESCRIPTION

Mixed waste

EMC CODE

170904

GROSS

TARE

NETT

31.960T 14.640T 17.320T

DRIVER NAME

Samuel

VEHICLE No.

T66 SKP

CARRIER No.

CASH PAYMENT

NETT

VAT

TOTAL

PUBLIC WEIGHBRIDGE ALL WEIGHTS IN METRIC TONNES (t) & KILOGRAMMES (kg) ACCEPTANCE OF WASTE SUBJECT TO SKIP SOLUTIONS LTD TERMS & CONDITIONS

Michelle Lee

Atkins Ltd.
The Axis
10 Holliday Street
Birmingham
B1 1TF

michelle.lee@atkinsglobal.com
07812 23 7628

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Coed Darcy

Monitor Phase 53 Validation Report

St Modwen Developments Limited

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Client signoff

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