



## 7. ANALYSIS CERTIFICATES, LACKENBY SOIL



Our Ref:  
Your Ref:  
11 June, 2004

**TES Bretby**

Mr R Pollard  
Enviros  
Sanderson House  
Station Road  
Horsforth  
Leeds  
LS18 5NT

PO Box 100  
Ashby Road  
Burton-upon-Trent  
Staffordshire  
DE15 0XD

Telephone: 01283 554400  
Facsimile: 01283 554422  
E-mail: enquiries@tes-bretby.co.uk

Dear Mr Pollard

**Soil Sample Analysis – Lackenby**

Please find attached the analysis results from Lackenby, reported in areas as requested.

The work was carried out in accordance with Mowlem Environmental Sciences Group Standard Terms and Conditions of Contract

Please contact me if you require any further information.

Yours sincerely

A handwritten signature in black ink, appearing to read 'J Hannah'.

J Hannah  
**Project Co-ordinator**  
01283 554403

# TEST REPORT SOIL SAMPLE ANALYSIS

## Combined Report TES Report No. Lackenby Area 7

Site: Lackenby Area 7

Enviros  
Sanderson House  
Station Road  
Horsforth  
Leeds  
LS18 5NT

The 32 samples described in this report were scheduled for analysis by TES Bretby between 27/04/04 and 28/05/04. The analysis was completed by Friday, 11 June 2004.

Tests marked as 'not UKAS accredited' and any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by TES Bretby laboratories.

The following tables are contained in this report:

Table 1 Main Analysis Results  
Tables of TPH Chromatograms (32 Pages)  
Tables of TPH Interpretations (4 Pages)  
Table of Report Notes (1 Page)

On behalf of

TES Bretby : J Hannah  
J Hannah Project Co-ordinator

Date of Issue: 11/06/04

Tests marked 'not UKAS accredited' in this report are not included in the UKAS Accreditation Schedule for our laboratory.

TES Bretby accepts no responsibility for the sampling related to the above results

[illegible]

[illegible]

TES ID Number		Client Sample Description	Units :		Method Codes :		Detection Limits :		UKAS Accredited :									
			mg/kg	PAH/FID	mg/kg	PAH/FID	mg/kg	PAH/FID	mg/kg	PAH/FID								
			1	yes	1	yes	1	yes	1	yes								
			yes	yes	yes	yes	yes	yes	yes	yes								
			Naphthalene (AR)	Acenaphthylene (AR)	Acenaphthene (AR)	Fluorene (AR)	Phenanthrene (AR)	Anthracene (AR)	Fluoranthene (AR)	Pyrene (AR)	Benzo(a)anthracene (AR)	Chrysene (AR)	Benzo(b)fluoranthene (AR)	Benzo(k)fluoranthene (AR)	Benzo(a)pyrene (AR)	Indeno(123-cd)pyrene (AR)	Dibenzo(ah)anthracene (AR)	Benzo(ghi)perylene (AR)
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0411374		7AB001 5.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
0411375		7AB002 4.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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0411377		7AB003 5.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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			Client Name		Envirois		Soils Sample Analysis											
			Contact		Ms B Thompson		Combined Report											
							Date Printed		11 June 2004									
							Report Number											
							Table Number		1									
							Page Number		3 of 6									
TES Bretby			Lackenby Area 7															
PO Box 100, Bretby Business Park, Burton-on-Trent, Staffordshire, DE15 0XD Tel +44 (0) 1283 554400 Fax +44 (0) 1283 554422																		

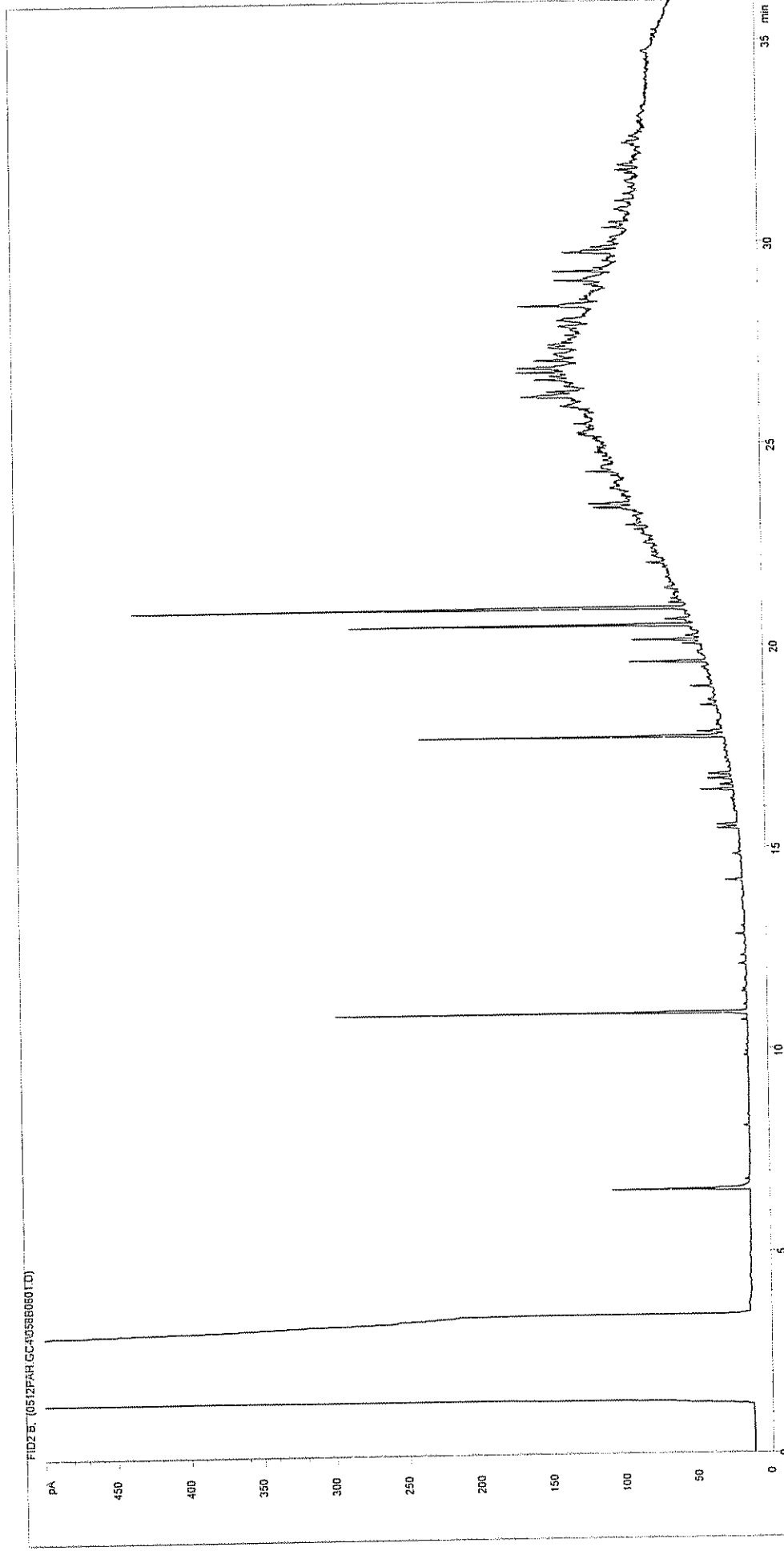
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[illegible]



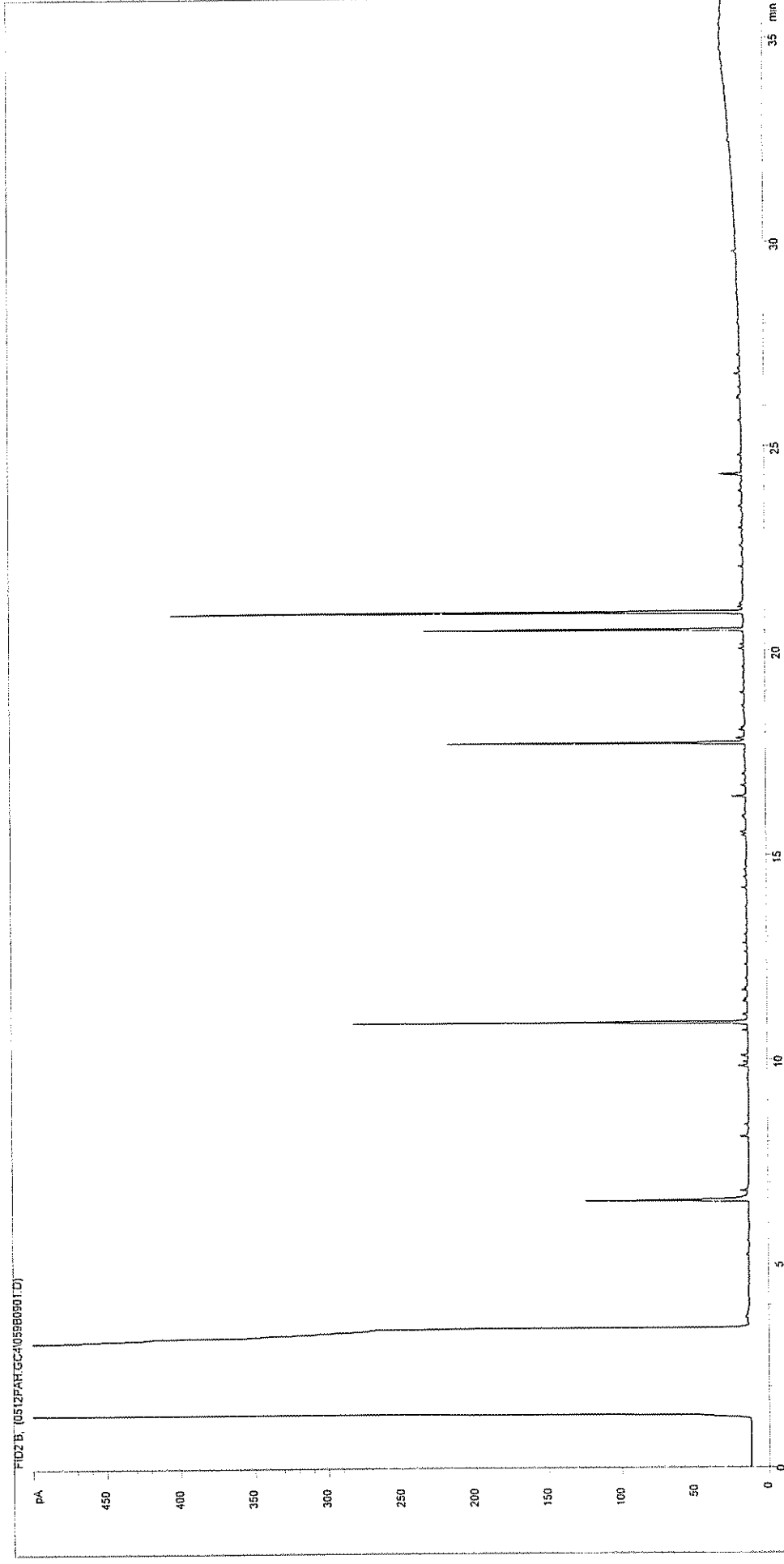
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# Petroleum Hydrocarbons (C8 to C37) by GC/FID



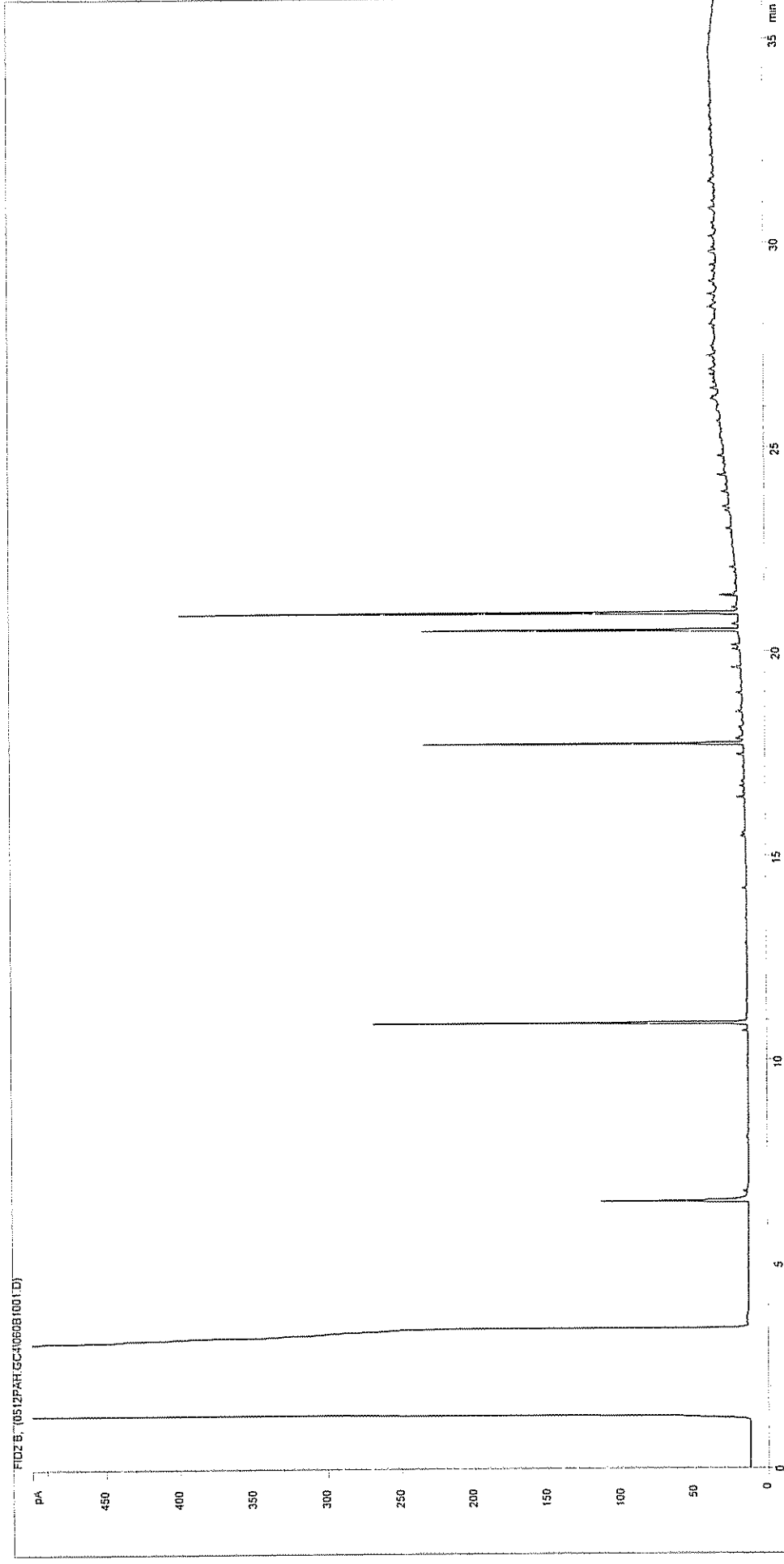
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<b>Dilution:</b>	1	<b>Site:</b>	Teeside C00520017A
<b>Acquisition Method:</b>	WMF_RUNF.M	<b>Client Sample Ref:</b>	7AT011 0.2
<b>Acquisition Date/Time:</b>	13-May-04		
<b>Datafile:</b>	C:\TES\DATA\0512PAH.GC4\058B0801.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



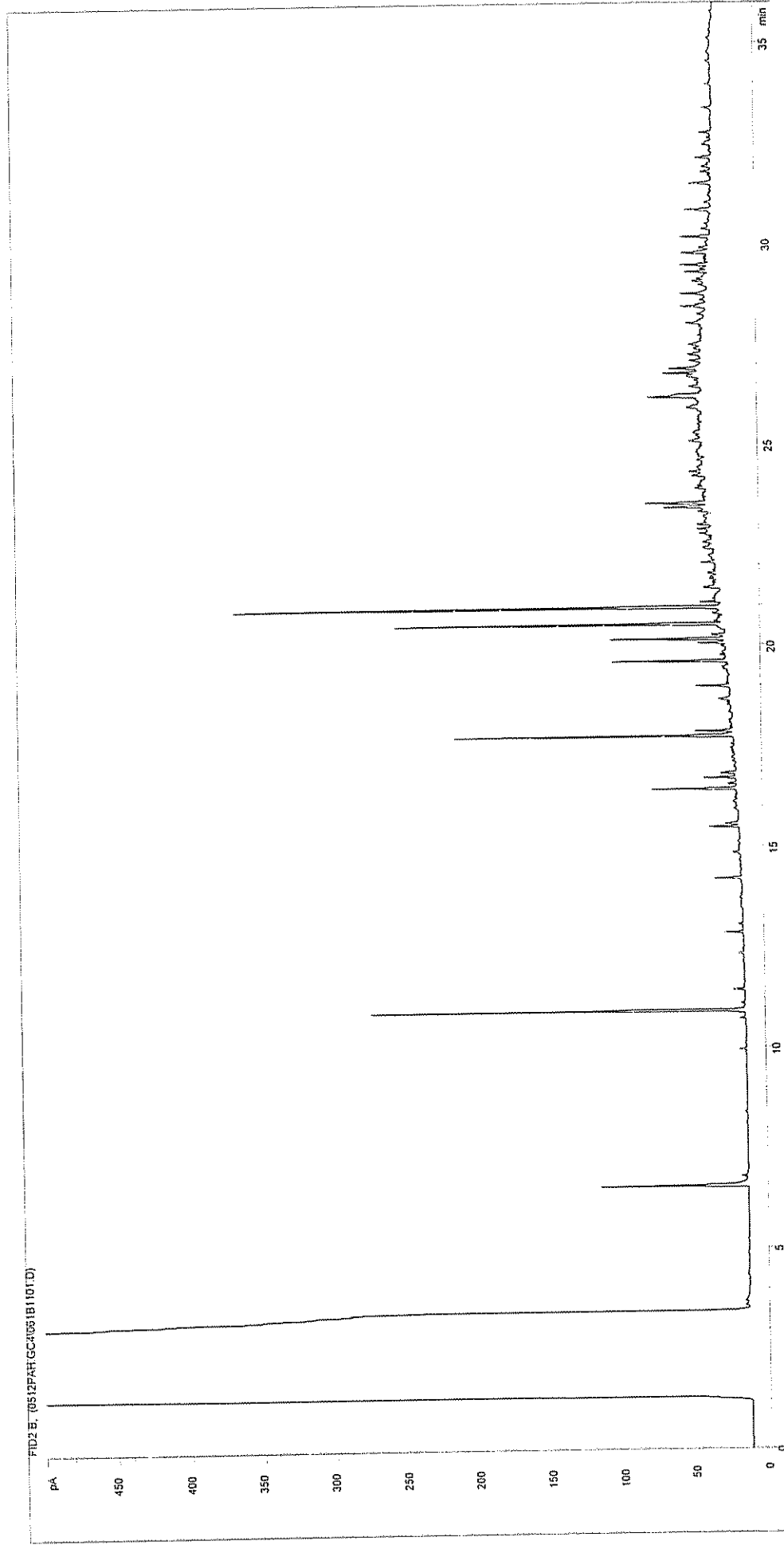
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Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT011 3.9
Acquisition Date/Time:	13-May-04		
Datafile:	C:\TES\DATA\0512PAH.GC4\059B0901.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



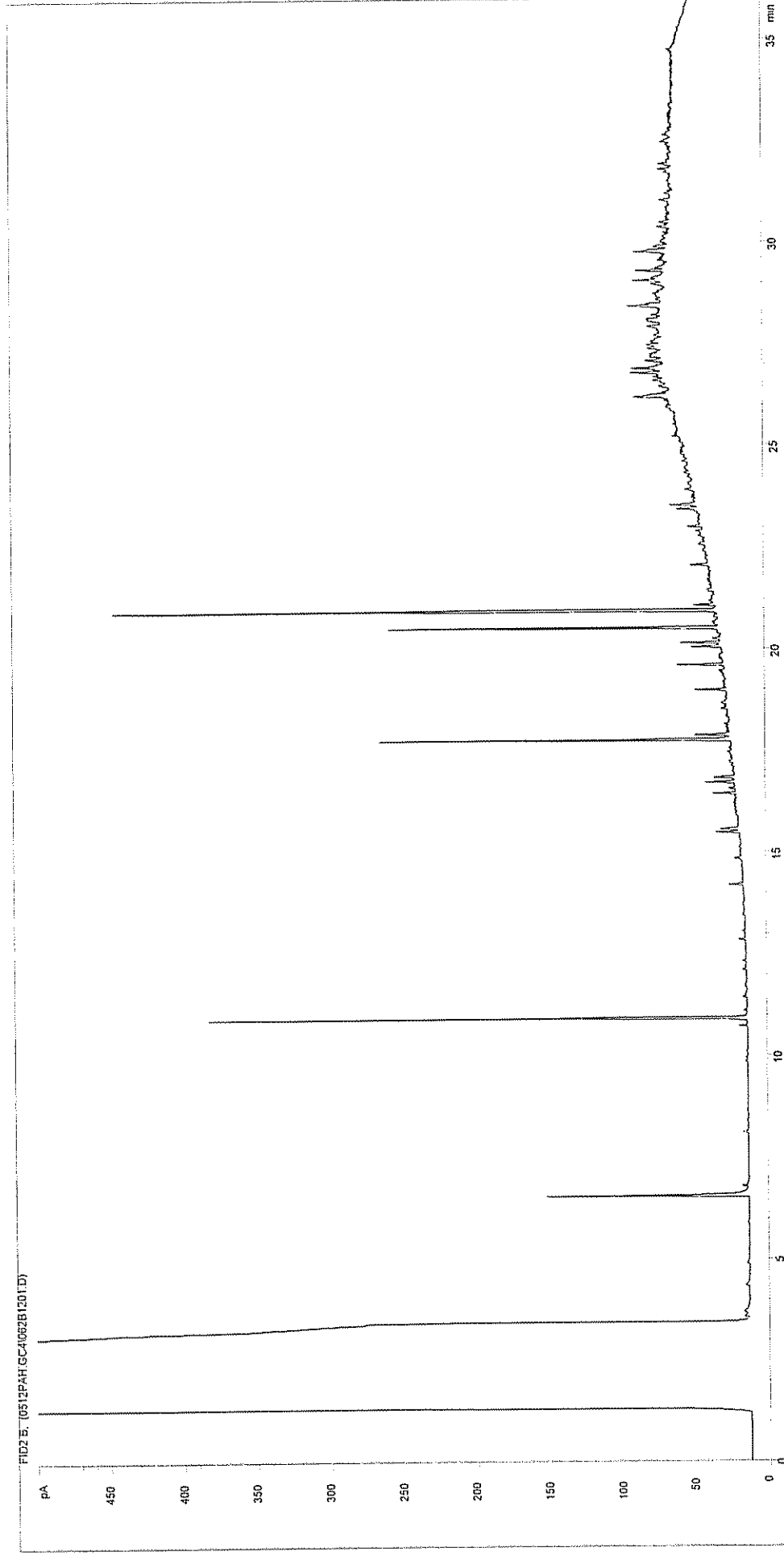
Sample ID:	CL0410979	Job Number:	S04_1717
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT007 0.2
Acquisition Date/Time:	13-May-04		
Datafile:	C:\TES\DATA\0512PAH.GC4060B1001.D		

# Petroleum Hydrocarbons (C8 to C37) by GC/FID



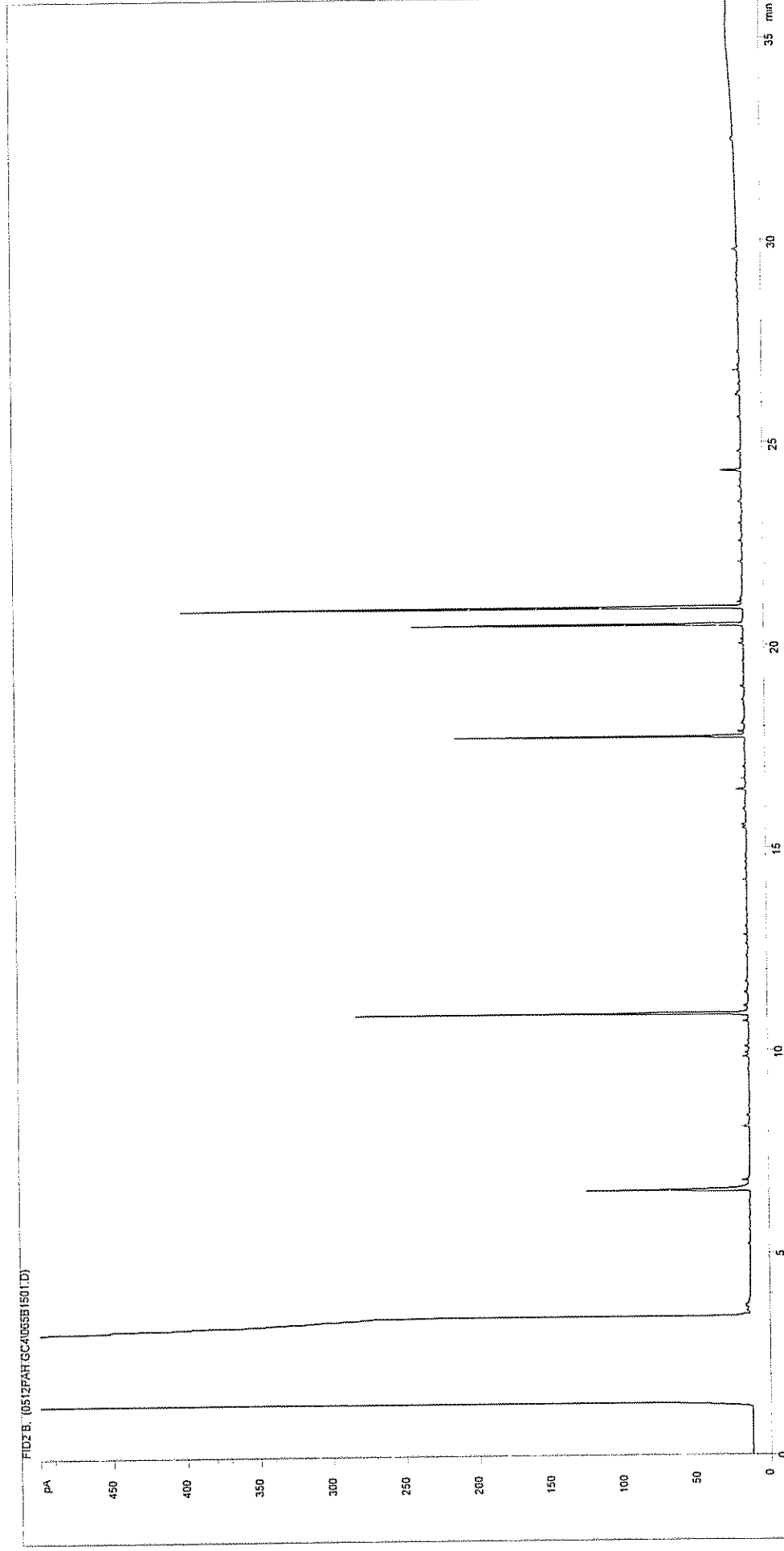
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Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT007 3.0
Acquisition Date/Time:	13-May-04		
Datafile:	C:\TES\DATA\0512PAH.GC4061B1101.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



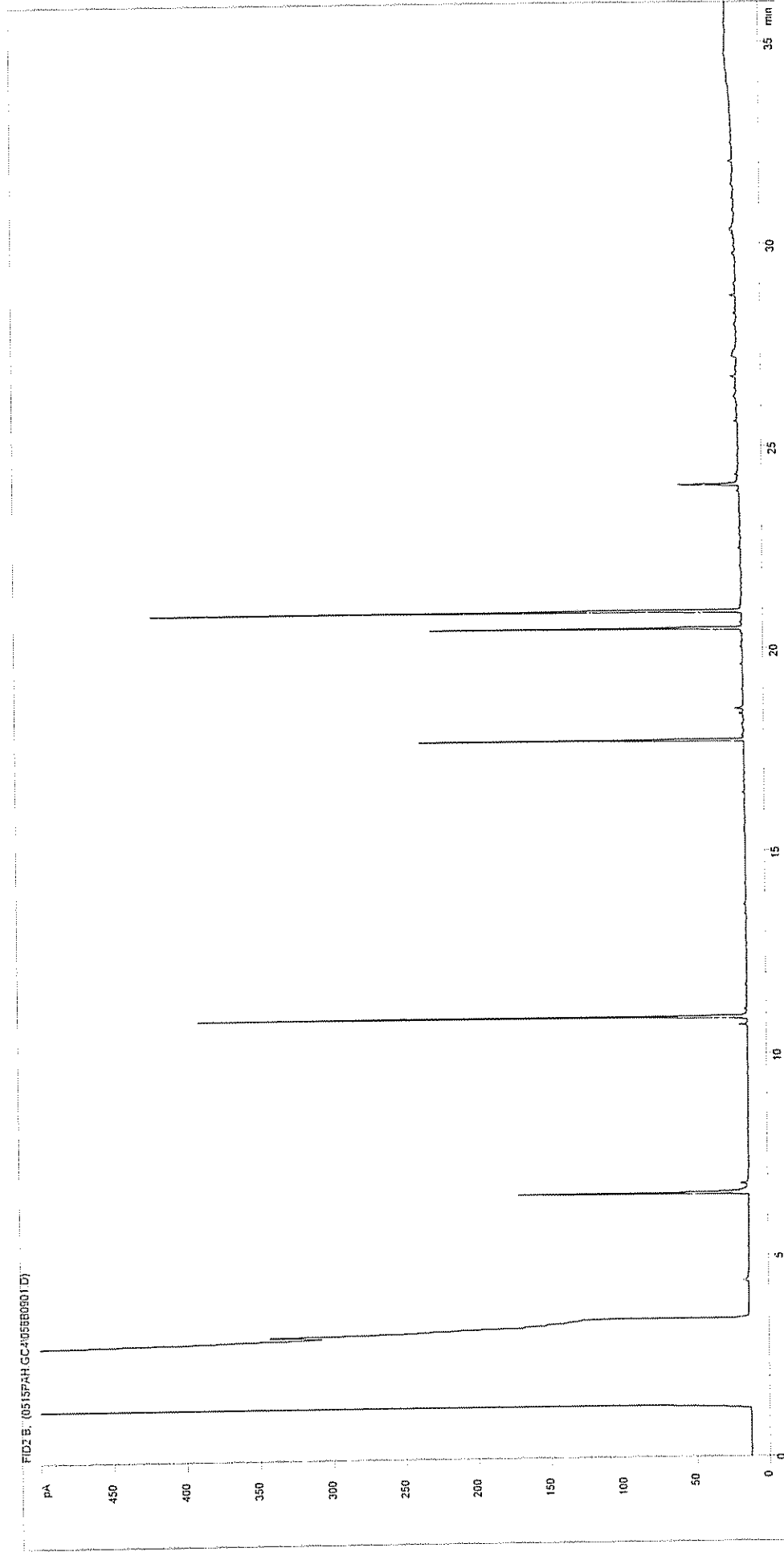
Sample ID:	CL0410981	Job Number:	S04_1717
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT010 0.3
Acquisition Date/Time:	13-May-04		
Datafile:	C:\TES\DATA\0512PAH.GC4\062B1201.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:	CL0410982	Job Number:	S04_1717
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT010 4.0
Acquisition Date/Time:	13-May-04		
Datafile:	C:\TES\DATA\0512PAH.GC4\065B1501.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

CL0411373

Multiplier:

0.1

Dilution:

1

Acquisition Method:

WMF\_RUNF.M

Acquisition Date/Time:

15-May-04

Datafile:

C:\TES\DATA\0515PAH.GC4\058B0901.D

Job Number:

S04\_1780

Client:

Enviros

Site:

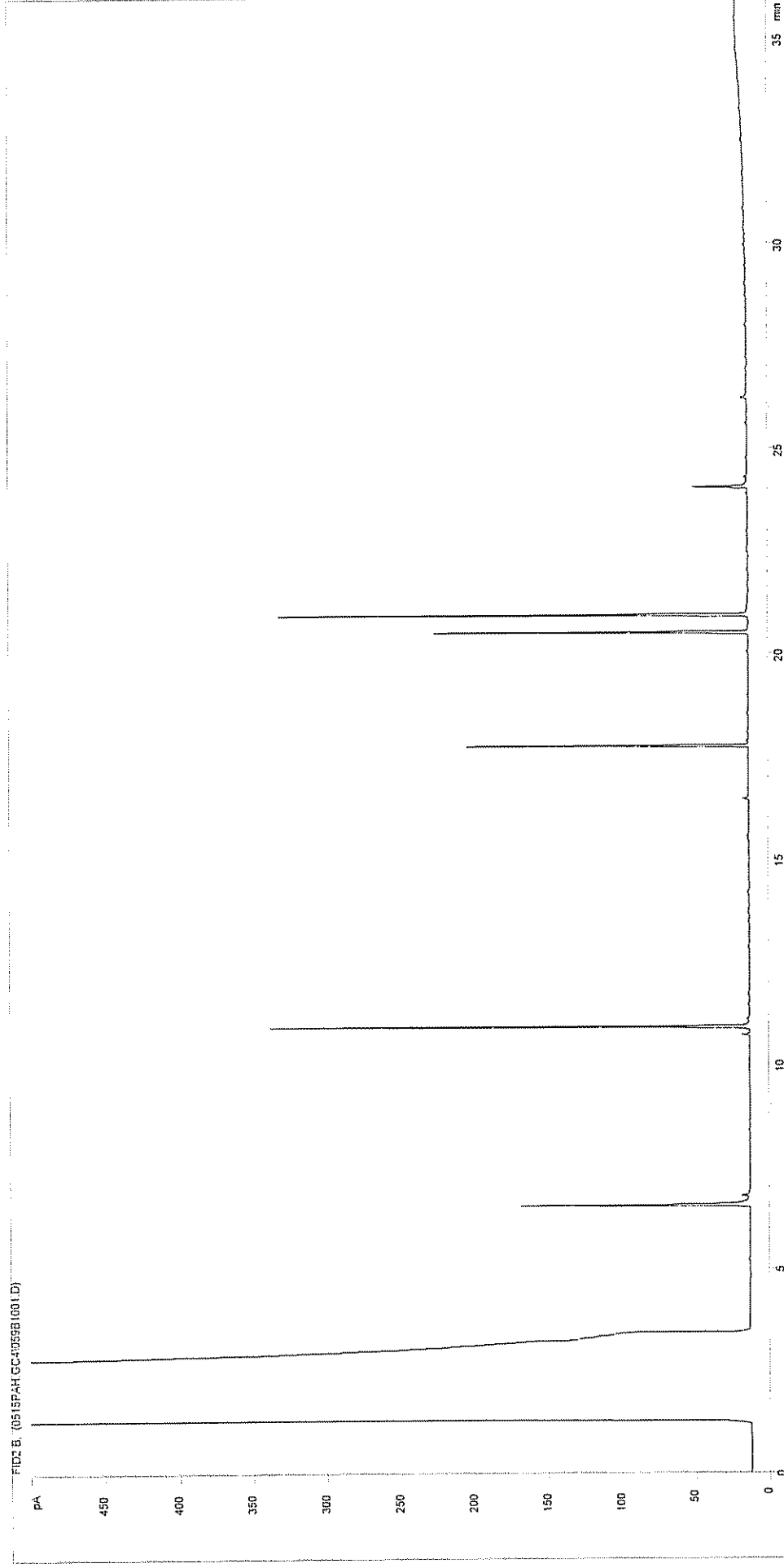
Teeside C00520017A

Client Sample Ref:

7AB001 1.7

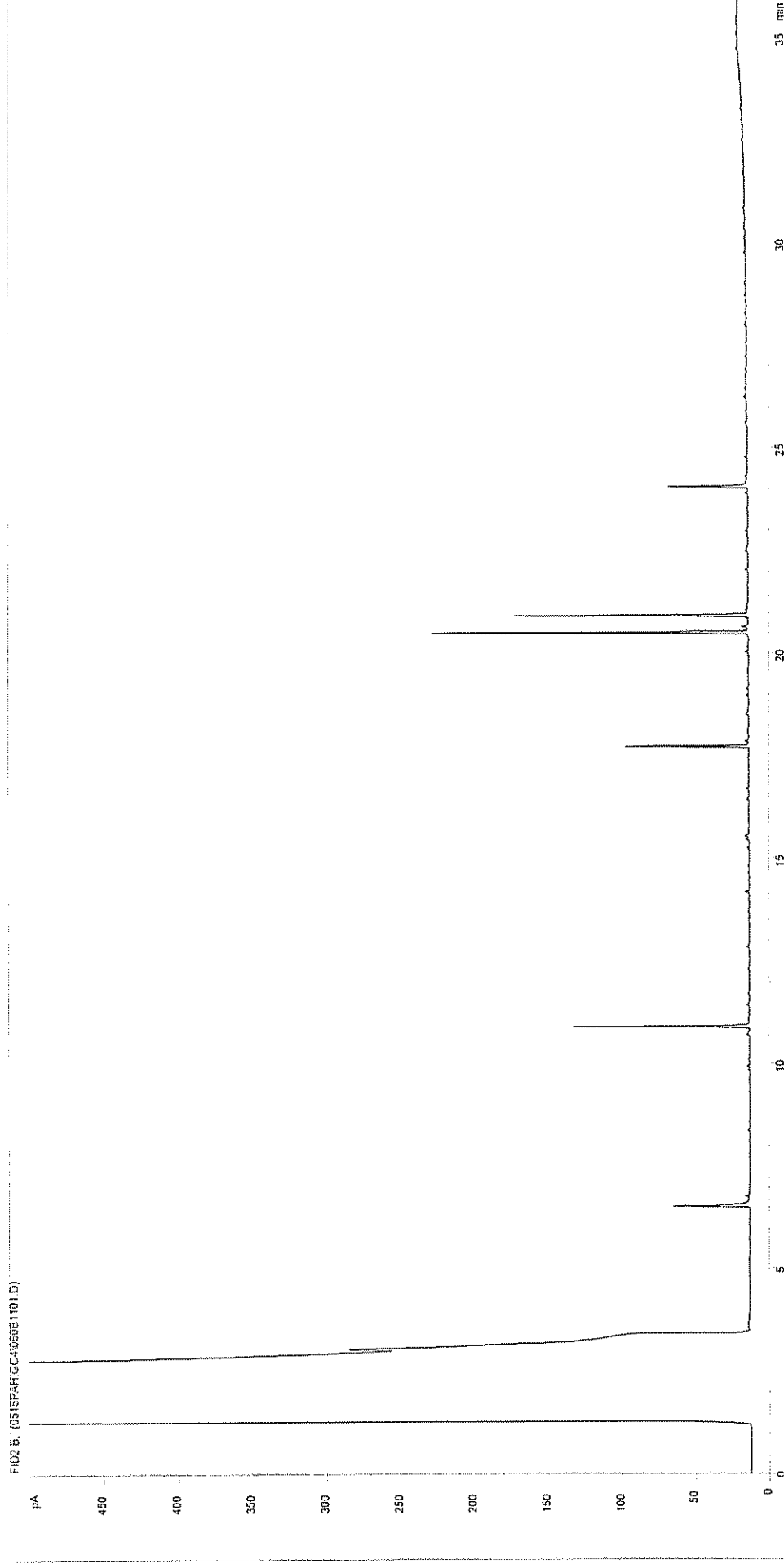


Petroleum Hydrocarbons (C8 to C37) by GC/FID



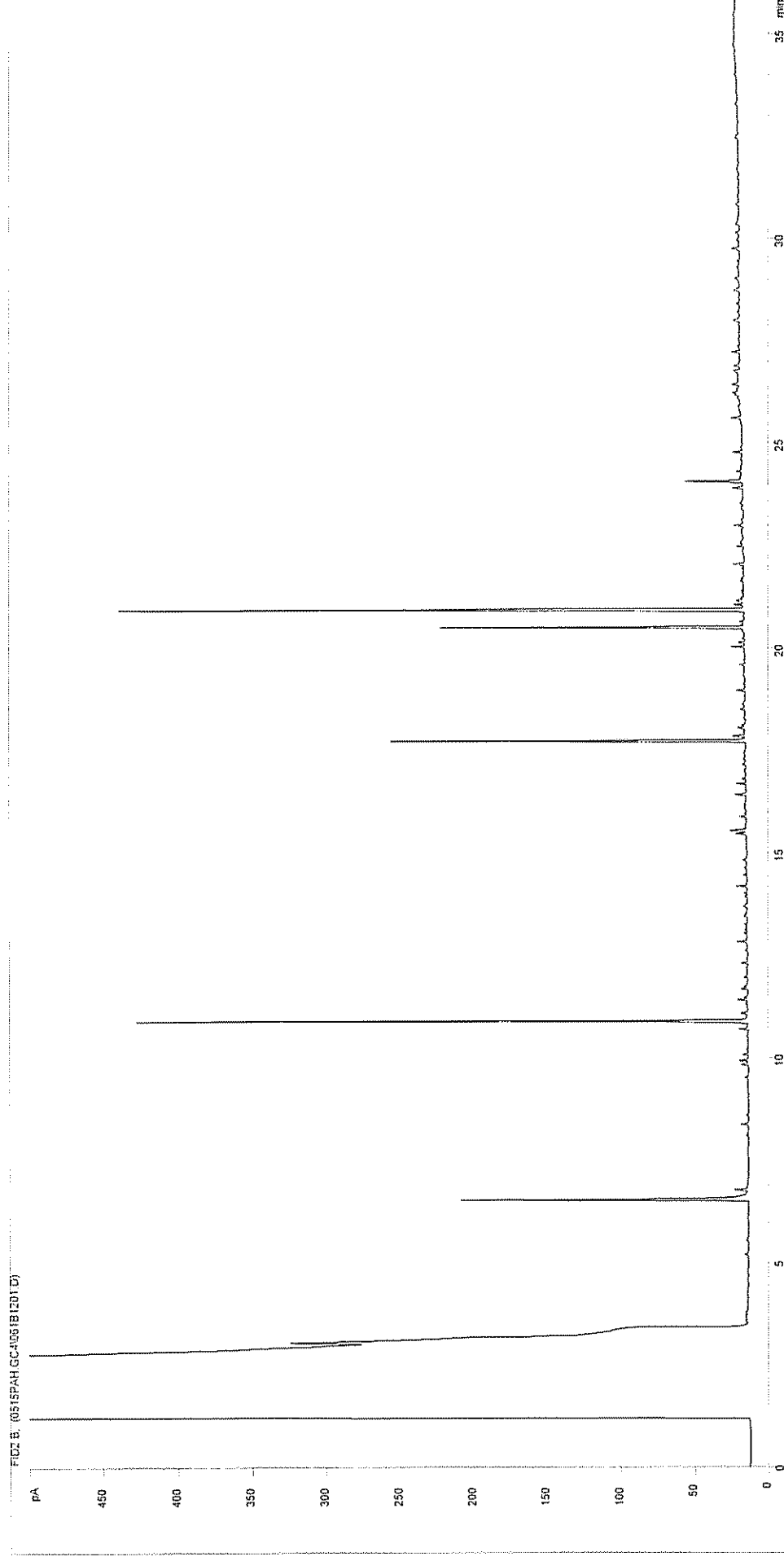
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Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AB001 5.5
Acquisition Date/Time:	15-May-04		
Datafile:	C:\TES\DATA\0515PAH.GC4\059B1001.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



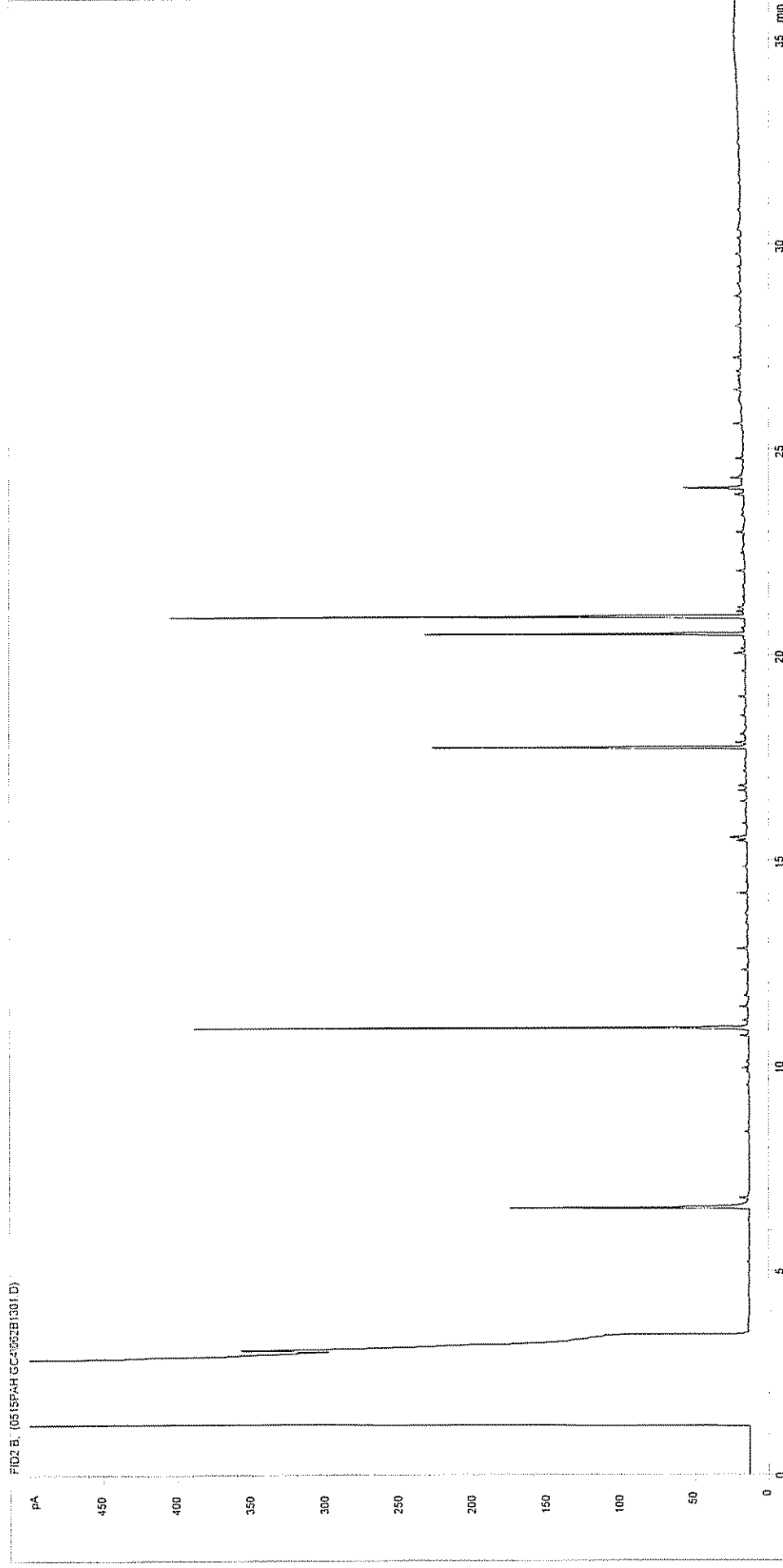
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Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AB002 4.1
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Datafile:	C:\TES\DATA\0515PAH.GC4\060B1101.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



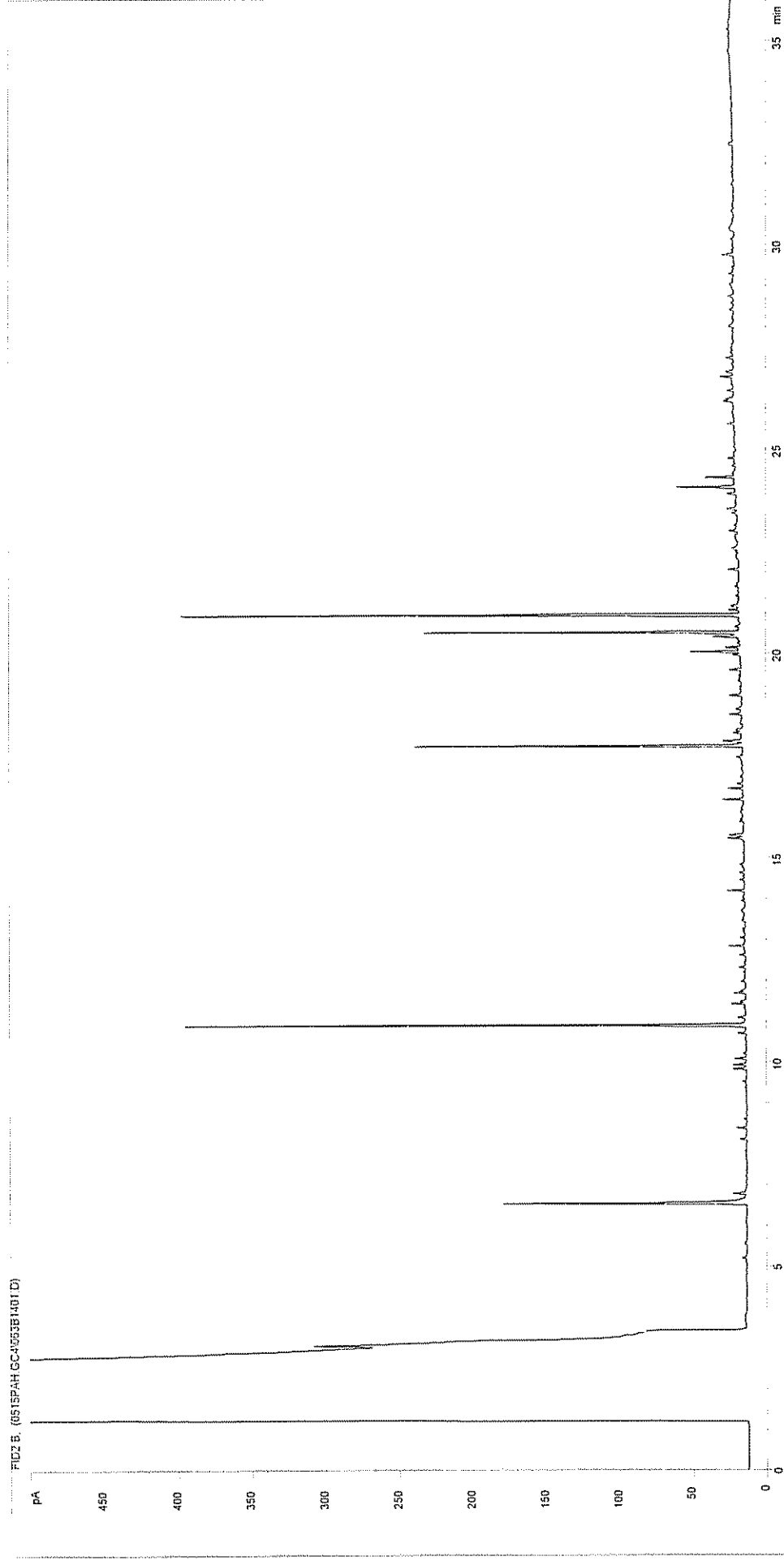
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Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AB002 8.0
Acquisition Date/Time:	15-May-04		
Datafile:	C:\TES\DATA\0515PAH.GC4\061B1201.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



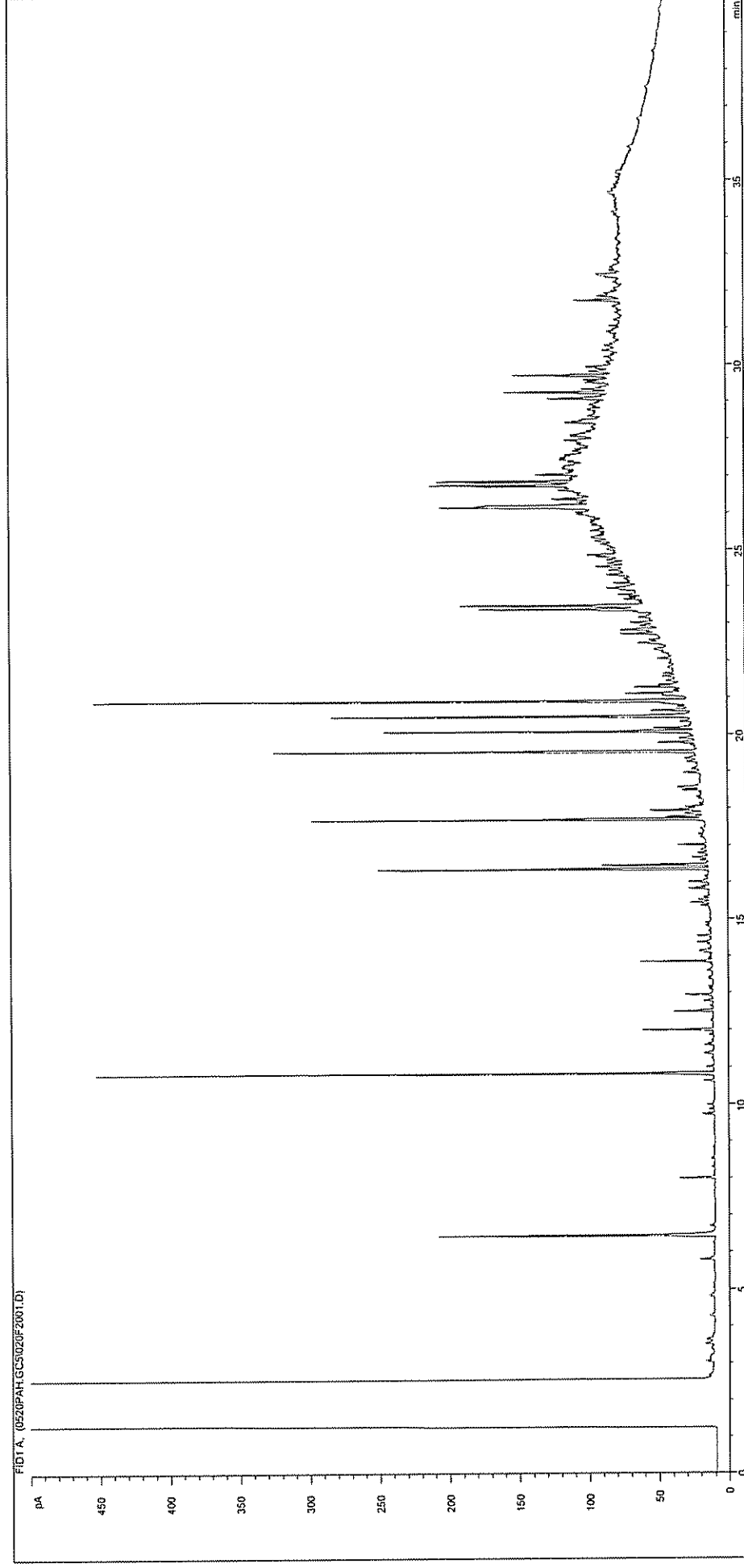
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Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AB003 5.2
Acquisition Date/Time:	15-May-04		
Datafile:	C:\TES\DATA\0515PAH.GC4\062B1301.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



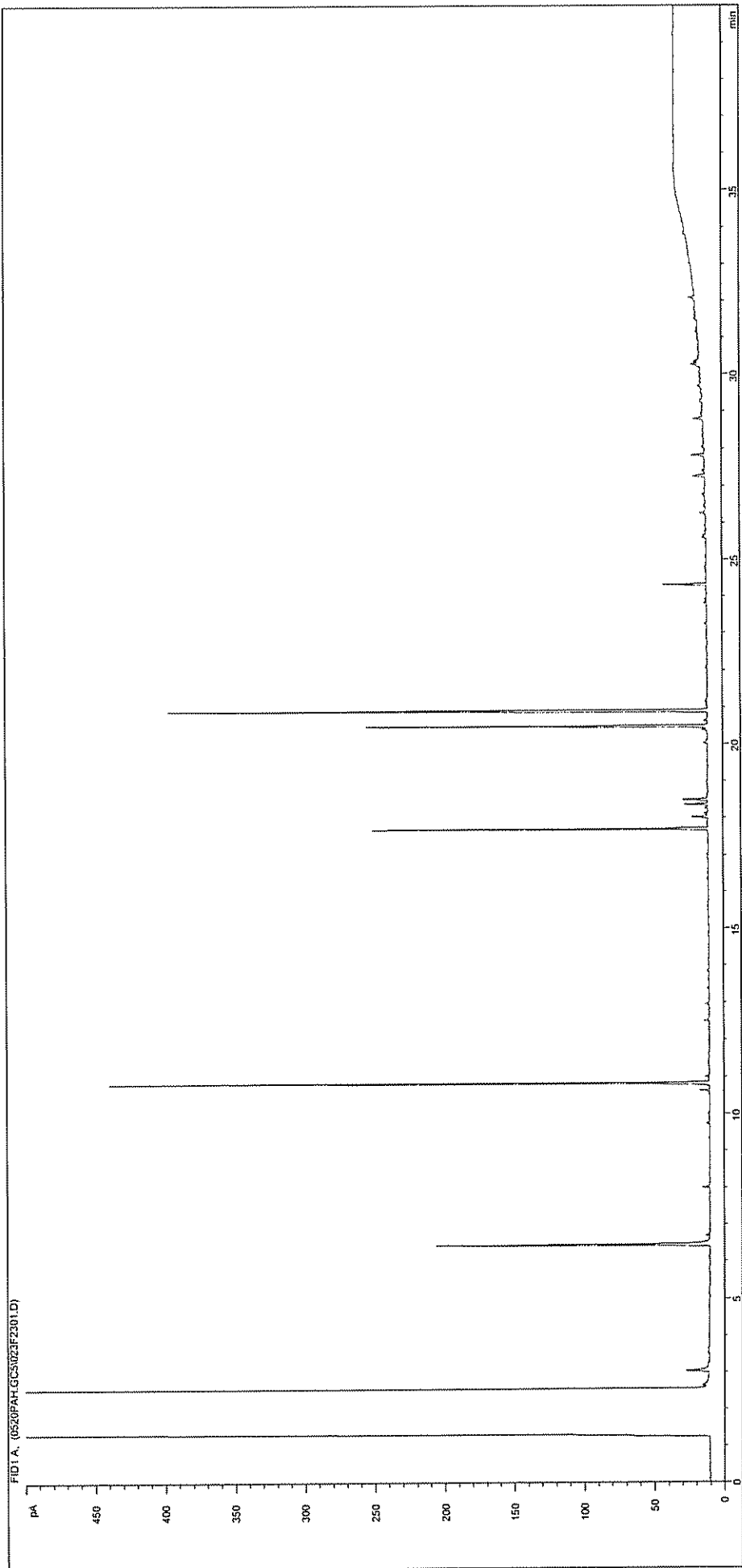
Sample ID:	CL0411378	Job Number:	S04_1780
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AB004 2.6
Acquisition Date/Time:	16-May-04		
Datafile:	C:\TES\DATA\0515PAH.GC4\063B1401.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



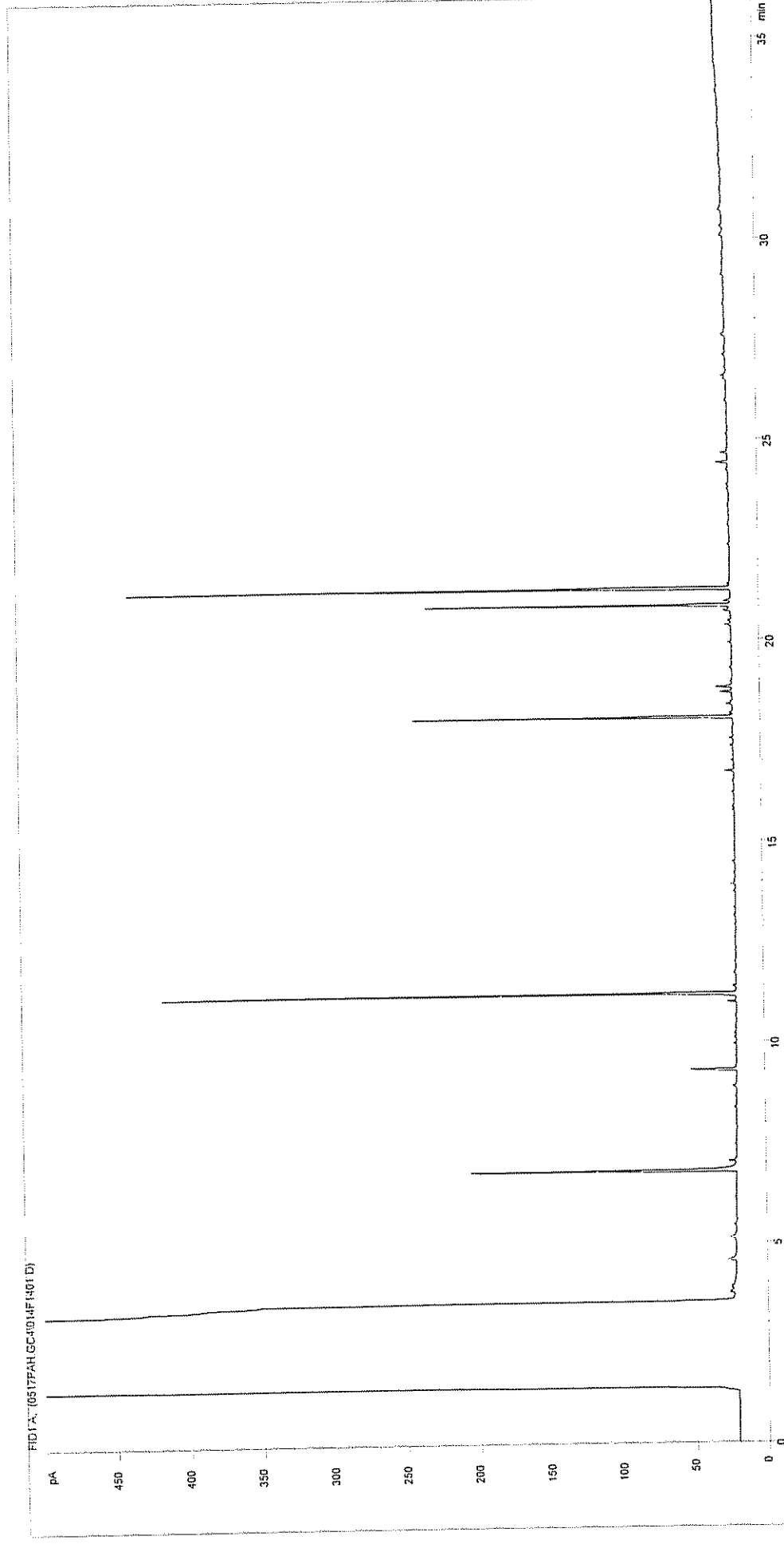
Sample ID:	CL0411606	Job Number:	S04_1807
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7T012 0.2
Acquisition Date/Time:	21-May-04		
Datafile:	D:\TES\DATA\0520PAH.GC5\020F2001.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:	CL0411607	Job Number:	S04_1807
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7T012 4.0
Acquisition Date/Time:	21-May-04		
Datafile:	D:\TES\DATA\0520PAH.GC5\023F2301.D		

# Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

Multiplier:

Dilution:

Acquisition Method:

Acquisition Date/Time:

Datafile:

CL0412184

0.1

1

WMF\_RUNF.M

18-May-04

C:\TES\DATA\0517PAH.GC4\014F1401.D

Job Number: S04\_1896

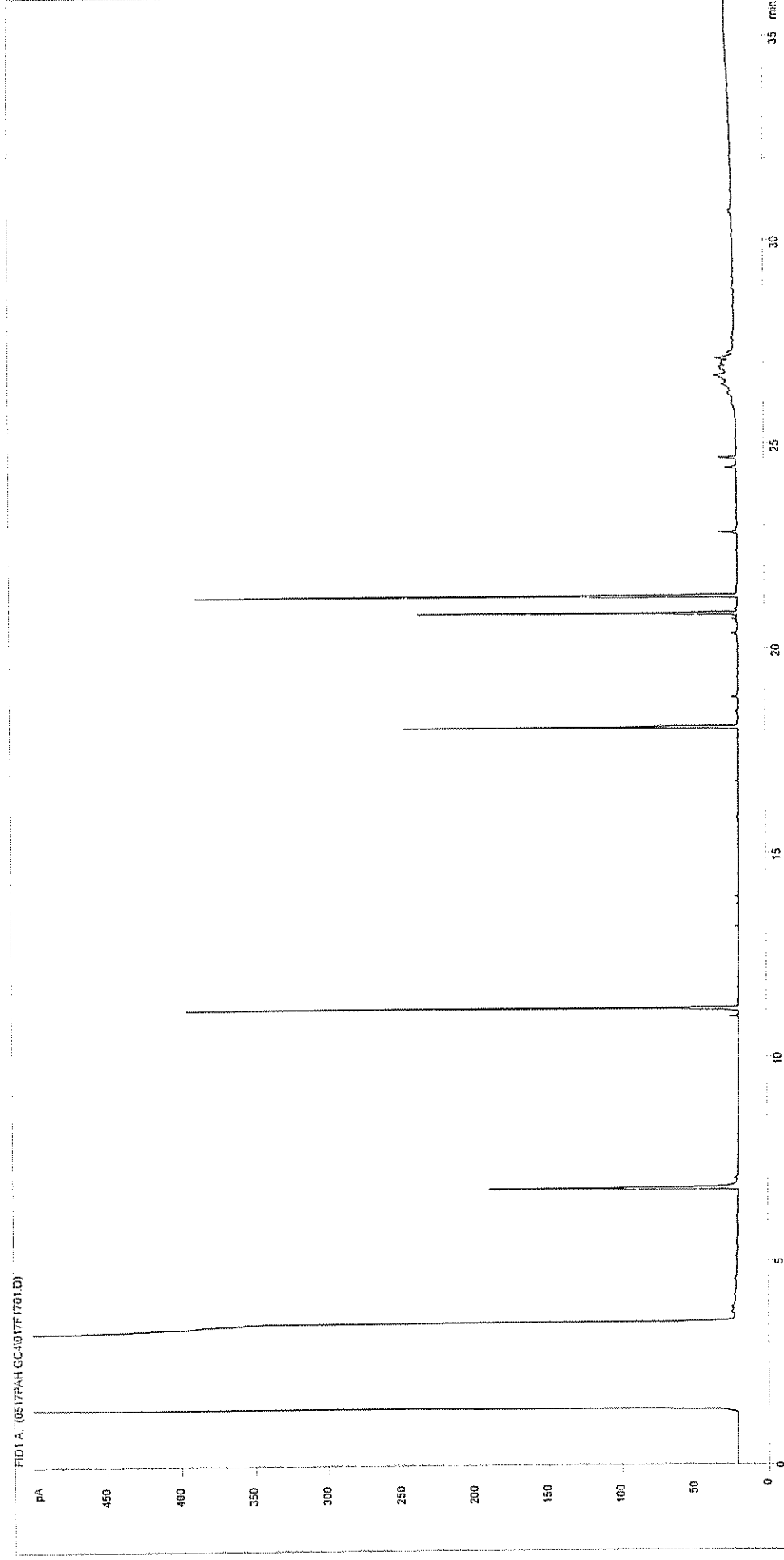
Client: Enviro

Site: Teeside C00520017A

Client Sample Ref: 7AB005 0.55

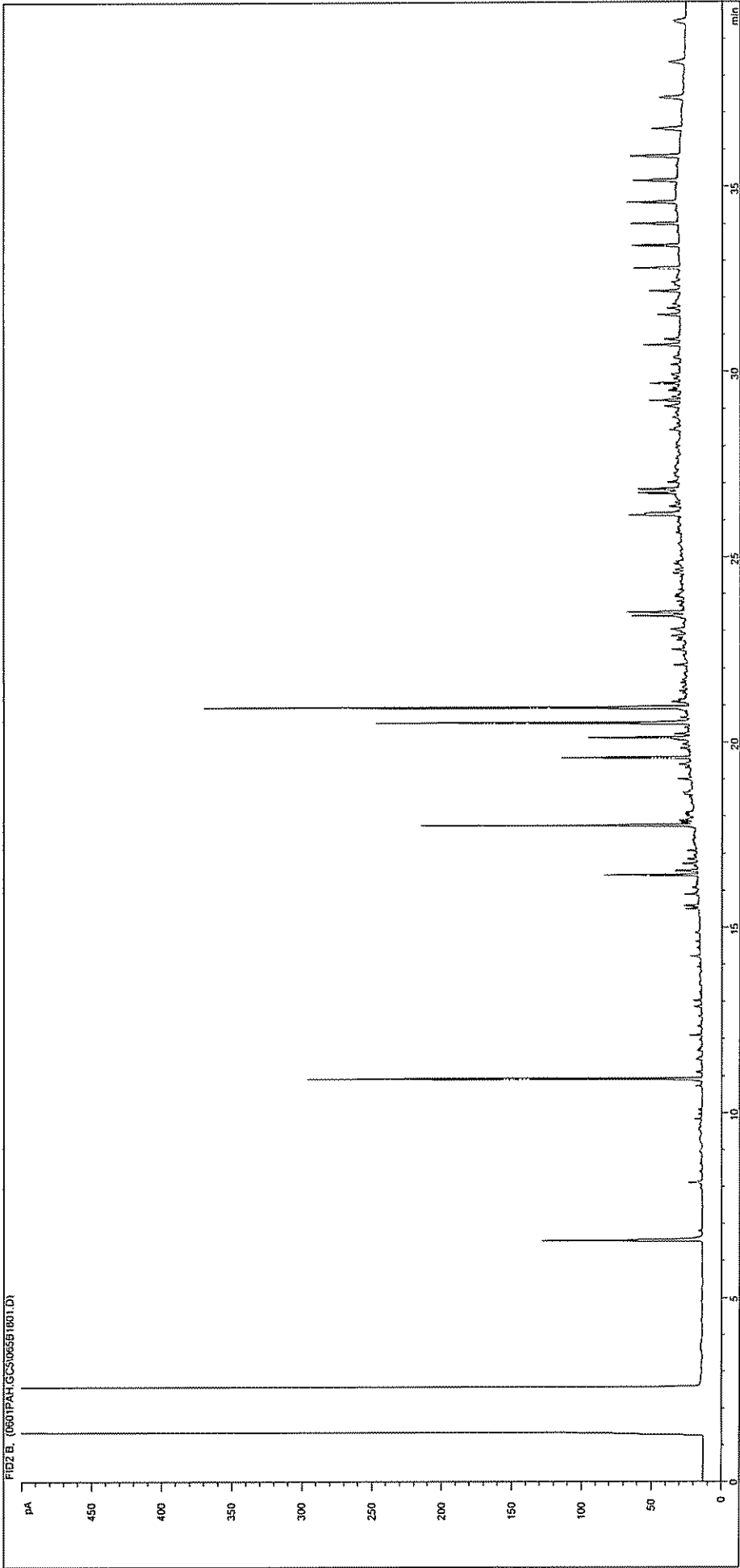


Petroleum Hydrocarbons (C8 to C37) by GC/FID



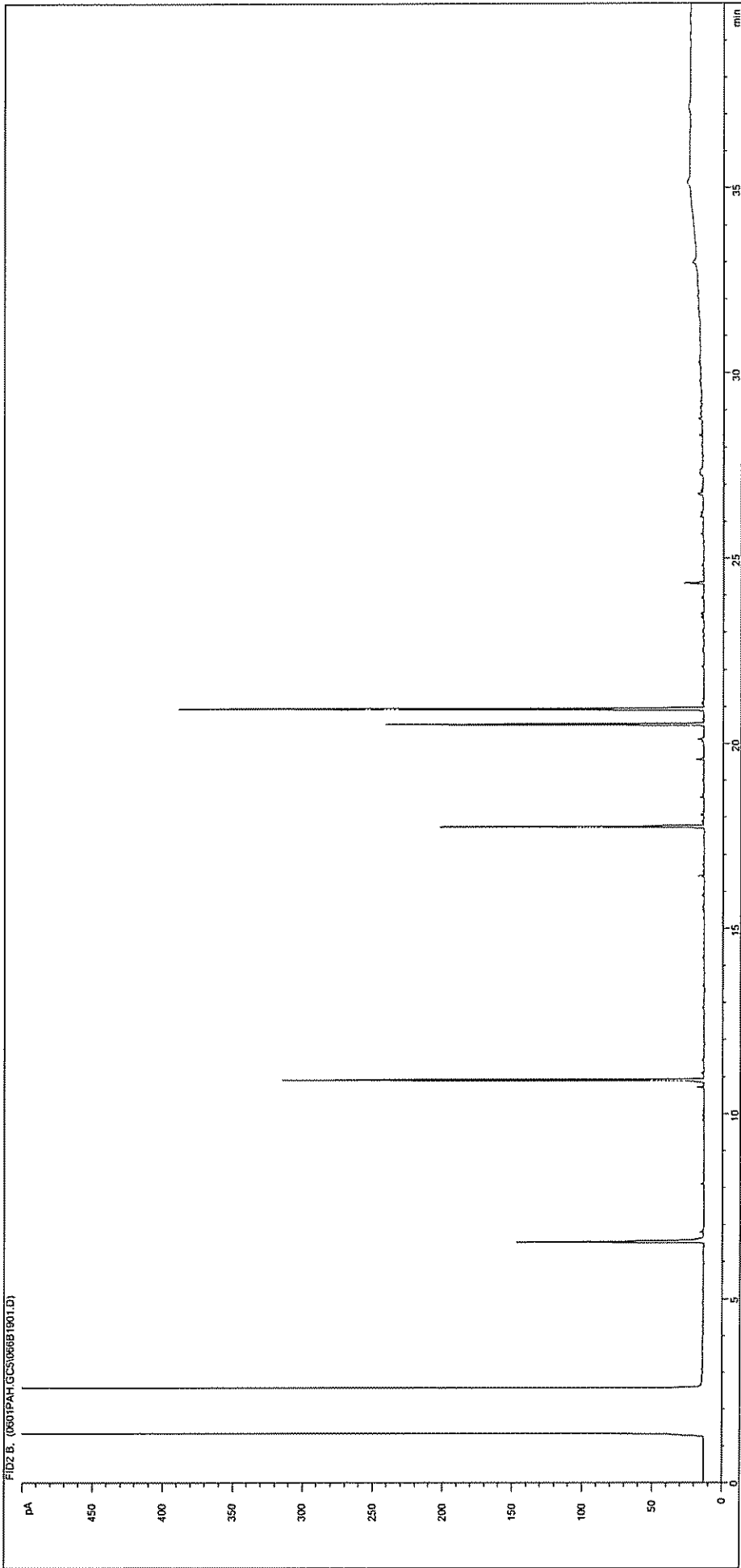
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Dilution:	1	Site:	Teeside C00520017A
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Acquisition Date/Time:	18-May-04		
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Petroleum Hydrocarbons (C8 to C37) by GC/FID



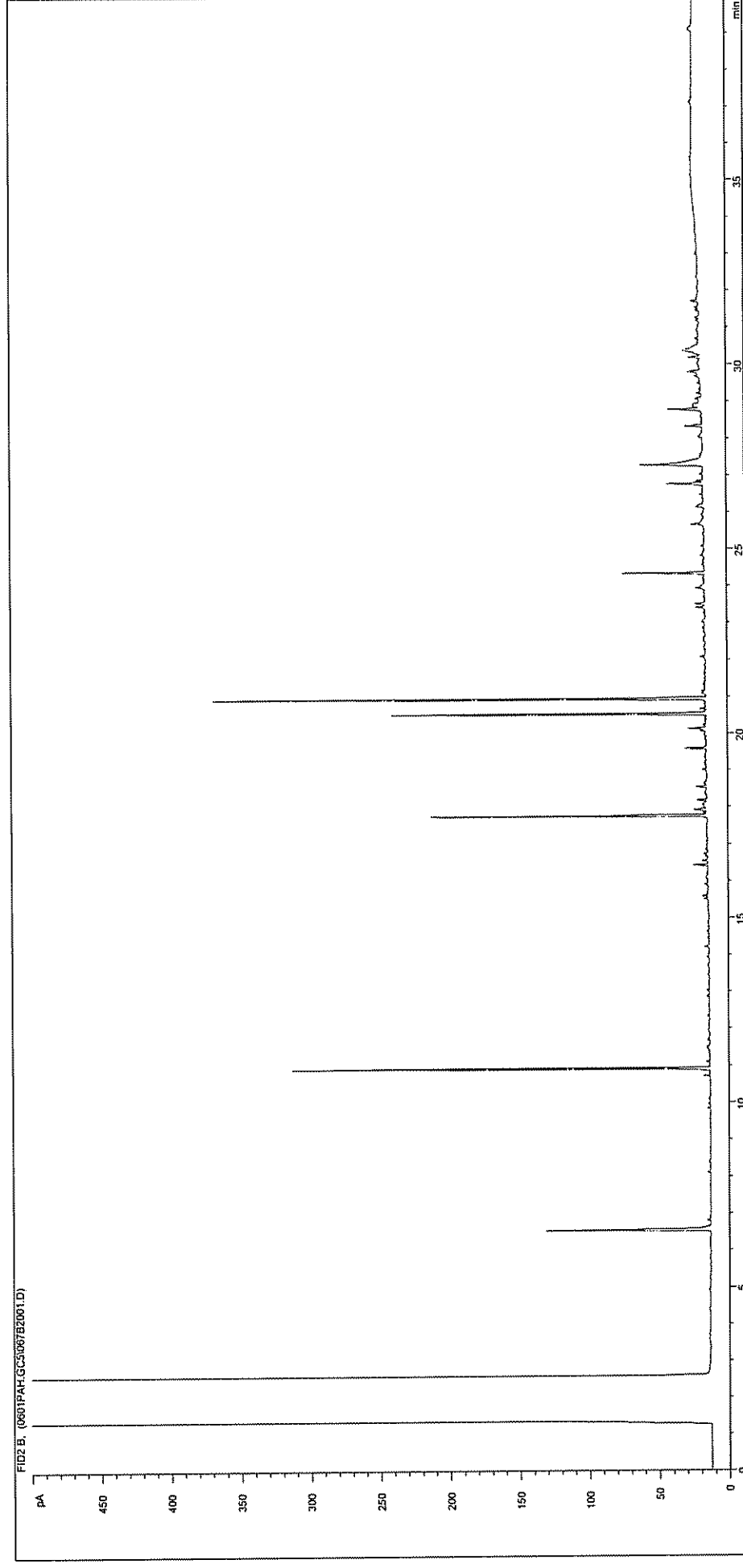
Sample ID:	CL0413985	Job Number:	S04_2148
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT2 0.5
Acquisition Date/Time:	02-Jun-04		
Datafile:	D:\TES\DATA\0601PAH.GC5\065B1801.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



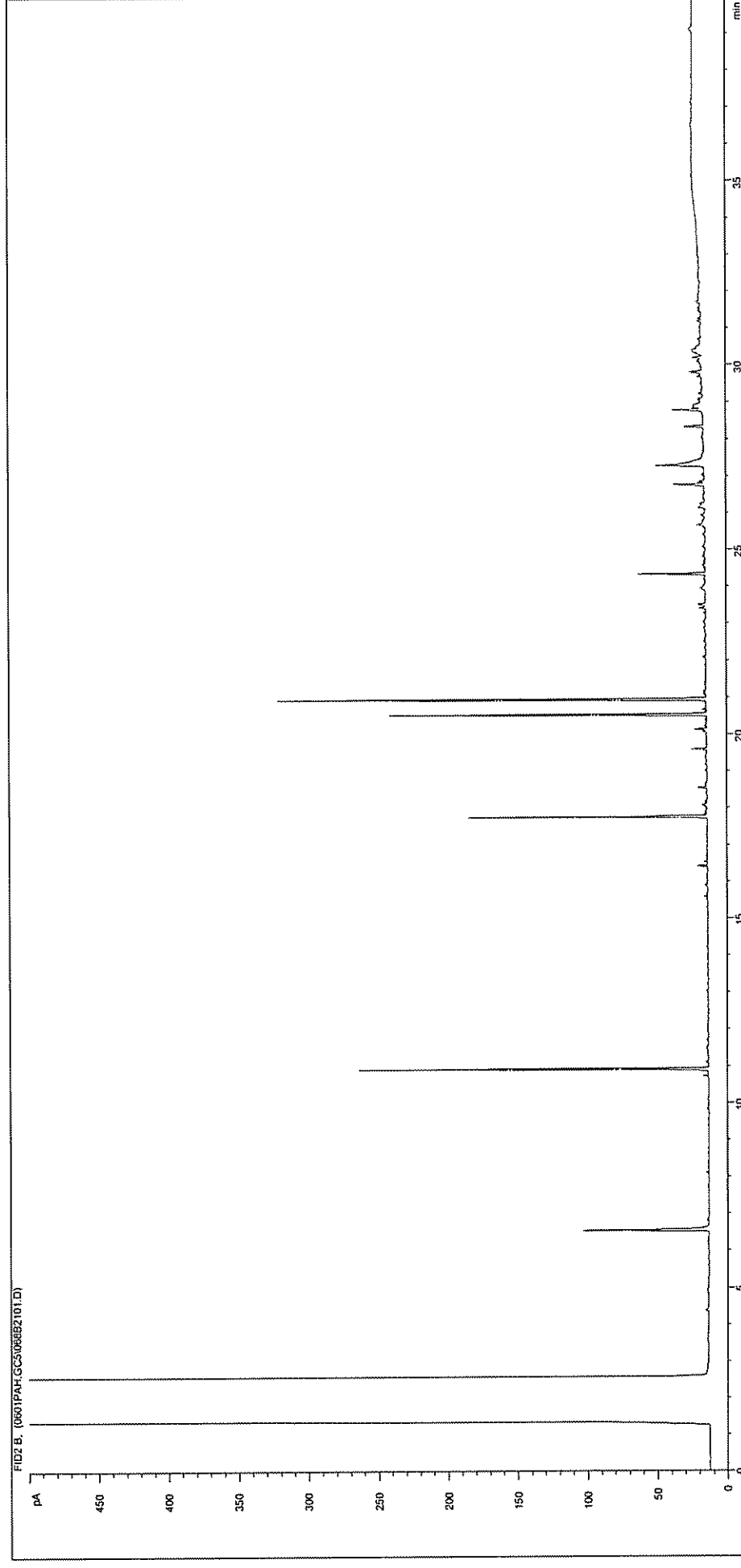
Sample ID:	CL0413986	Job Number:	S04_2148
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT2 2.3
Acquisition Date/Time:	02-Jun-04		
Datafile:	D:\TES\DATA\0601PAH.GC5\066B1901.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



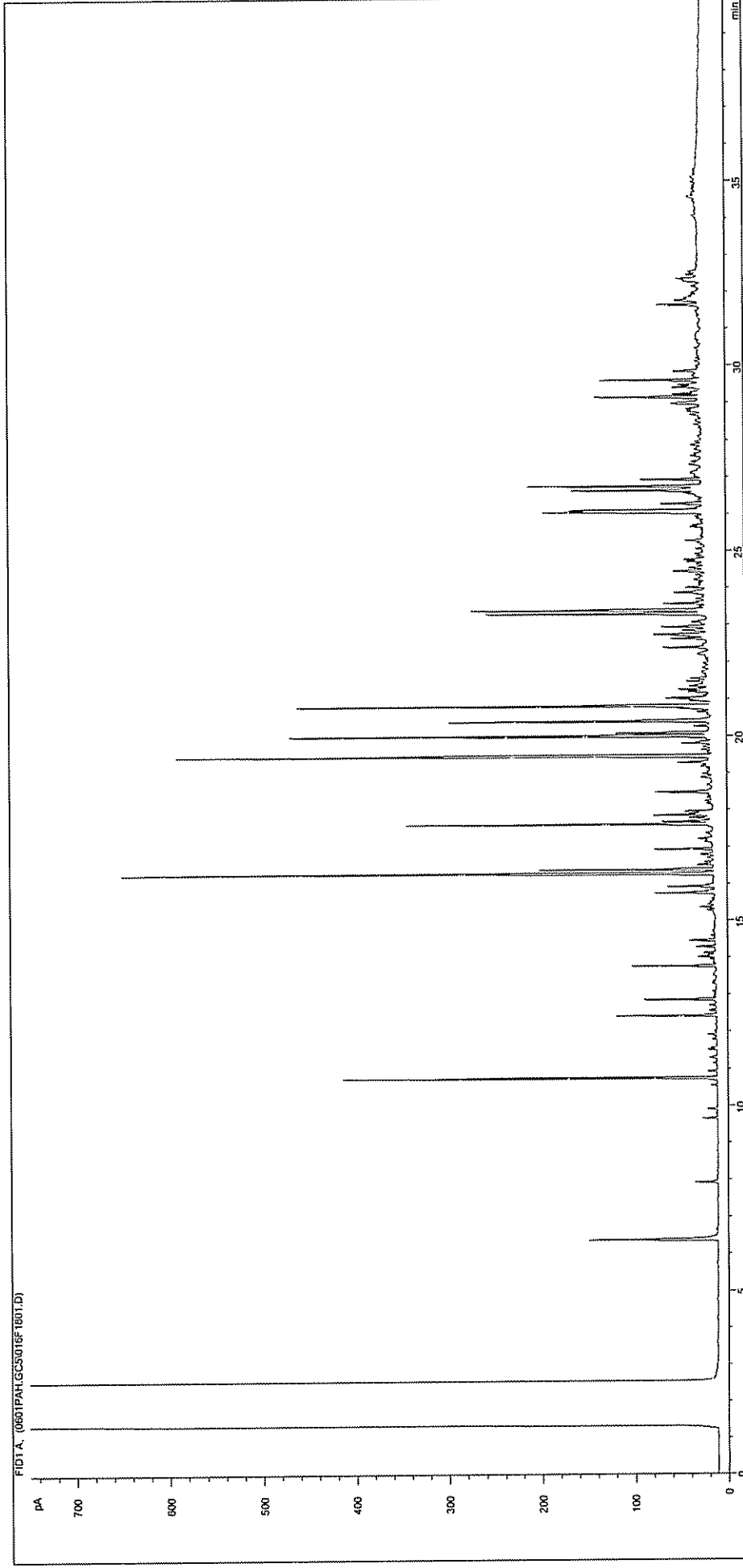
Sample ID:	CL0413987	Job Number:	S04_2148
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Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT4 2.0
Acquisition Date/Time:	02-Jun-04		
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# Petroleum Hydrocarbons (C8 to C37) by GC/FID



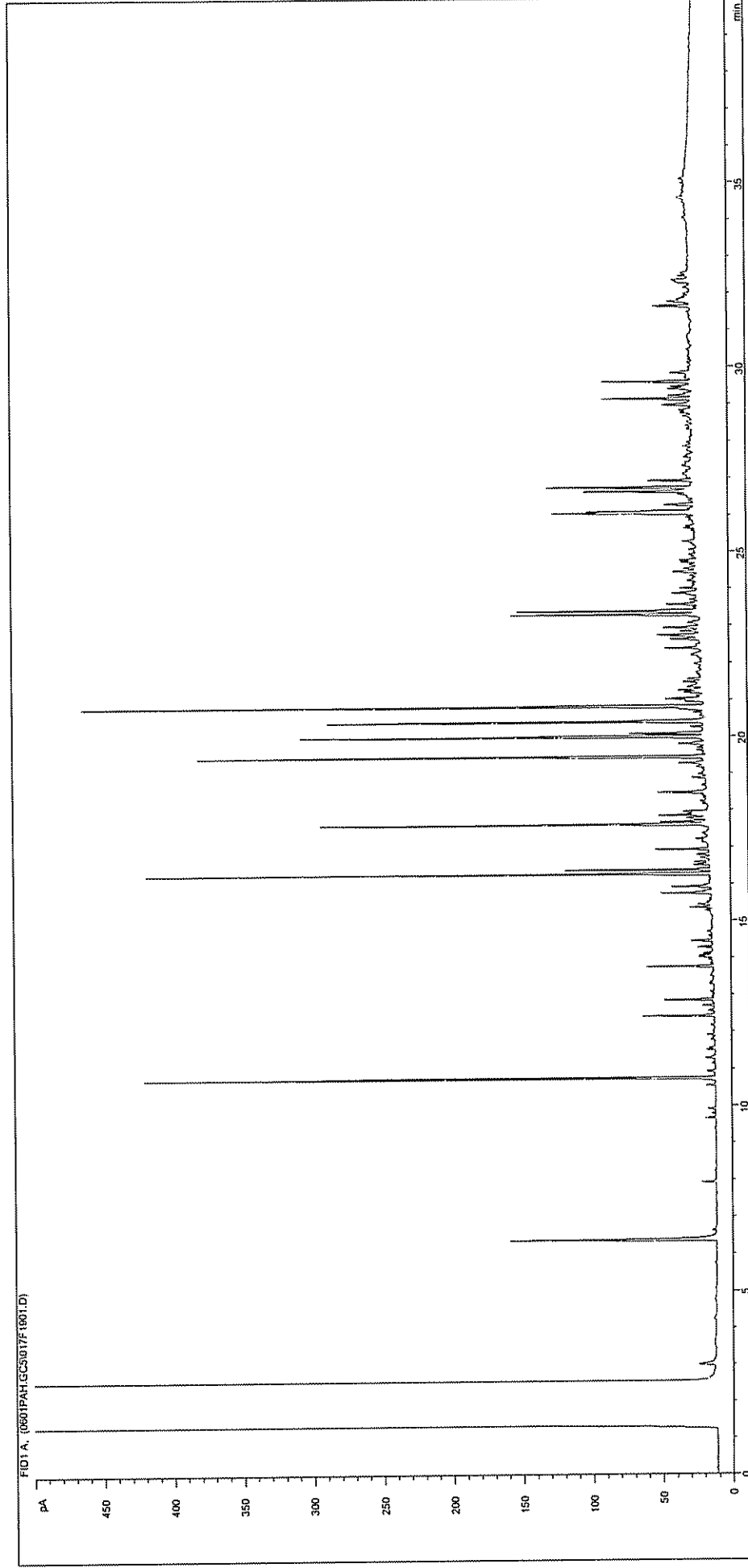
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Acquisition Date/Time:	02-Jun-04		
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# Petroleum Hydrocarbons (C8 to C37) by GC/FID



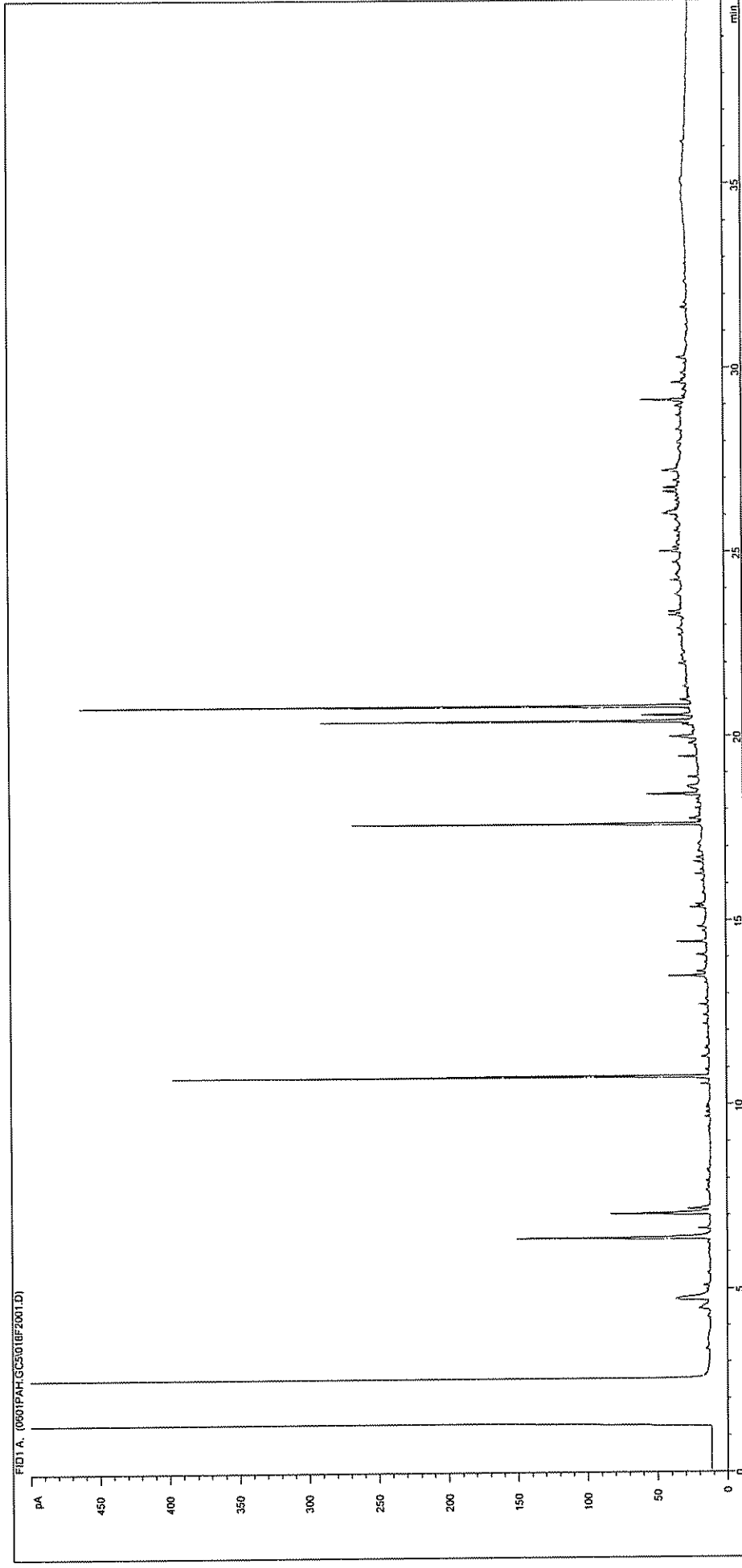
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<b>Dilution:</b>	1	<b>Site:</b>	Teeside C00520017A
<b>Acquisition Method:</b>	WMF_RUNF.M	<b>Client Sample Ref:</b>	7AT001 1.5
<b>Acquisition Date/Time:</b>	02-Jun-04		
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# Petroleum Hydrocarbons (C8 to C37) by GC/FID



<b>Sample ID:</b>	CL0414963	<b>Job Number:</b>	S04_2270
<b>Multiplier:</b>	0.1	<b>Client:</b>	Enviros
<b>Dilution:</b>	1	<b>Site:</b>	Teeside C00520017A
<b>Acquisition Method:</b>	WMF_RUNF.M	<b>Client Sample Ref:</b>	7AT001 3.0
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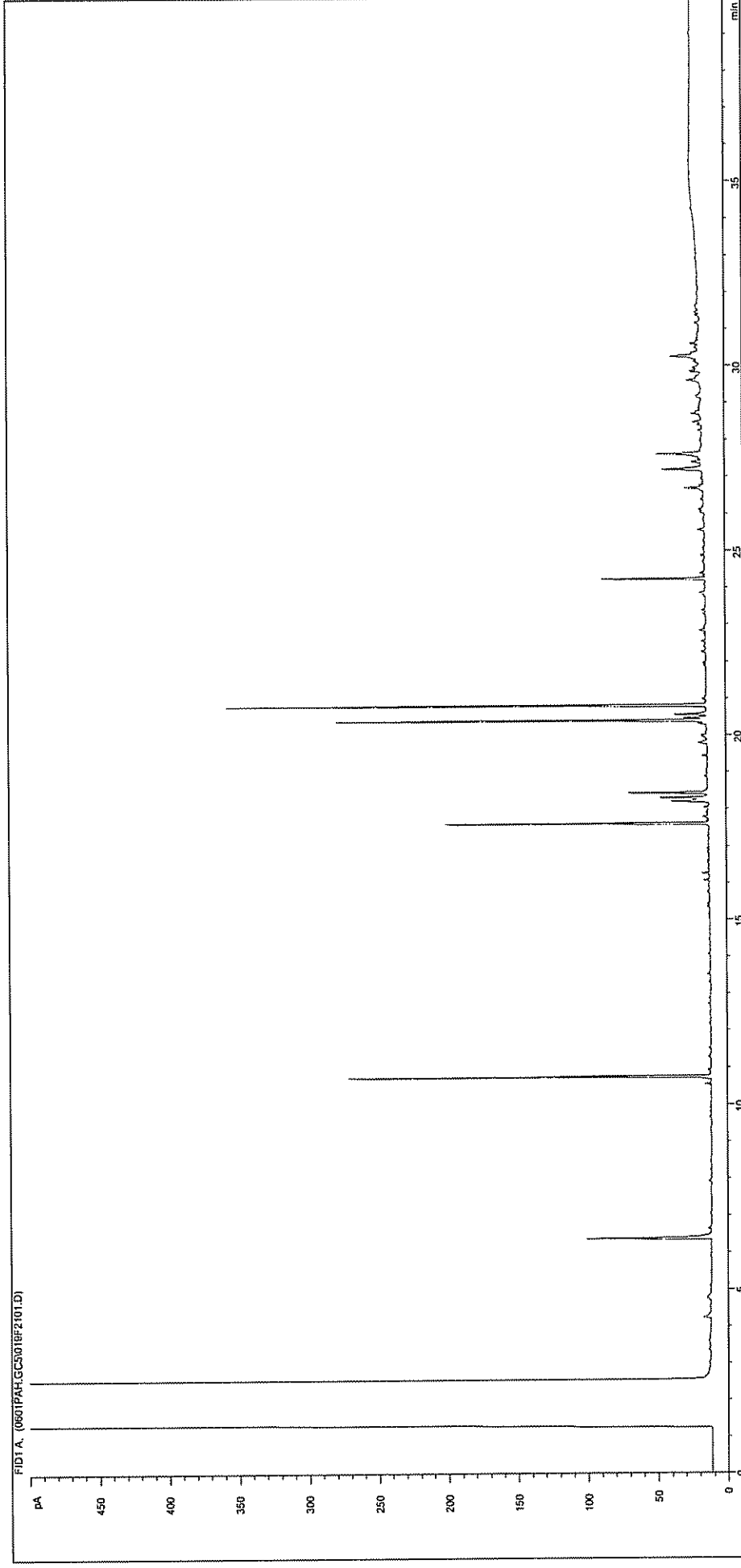
# Petroleum Hydrocarbons (C8 to C37) by GC/FID



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Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT003 0.2
Acquisition Date/Time:	02-Jun-04		
Datafile:	D:\TESIDATA\0601PAH.GC5\018F2001.D		

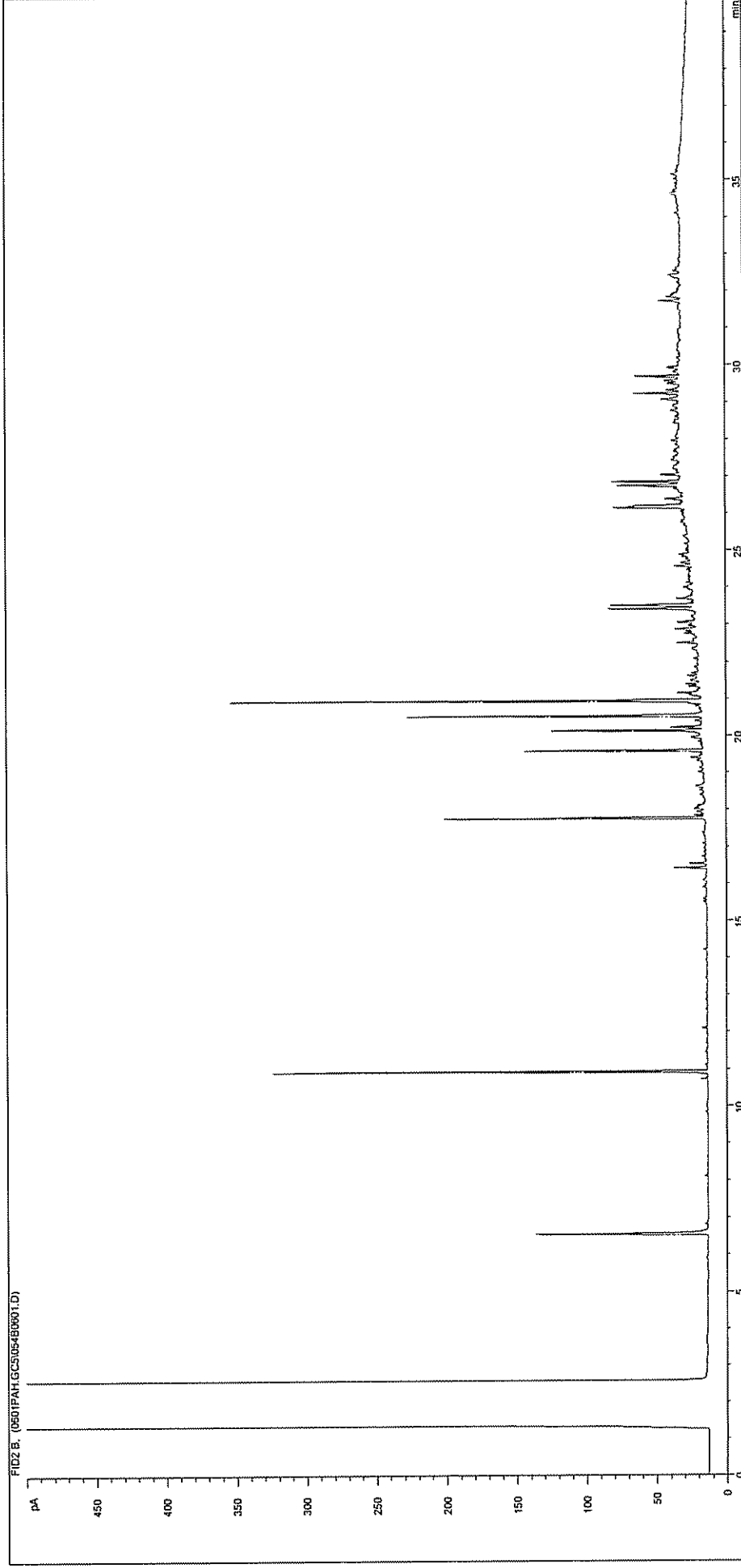


# Petroleum Hydrocarbons (C8 to C37) by GC/FID



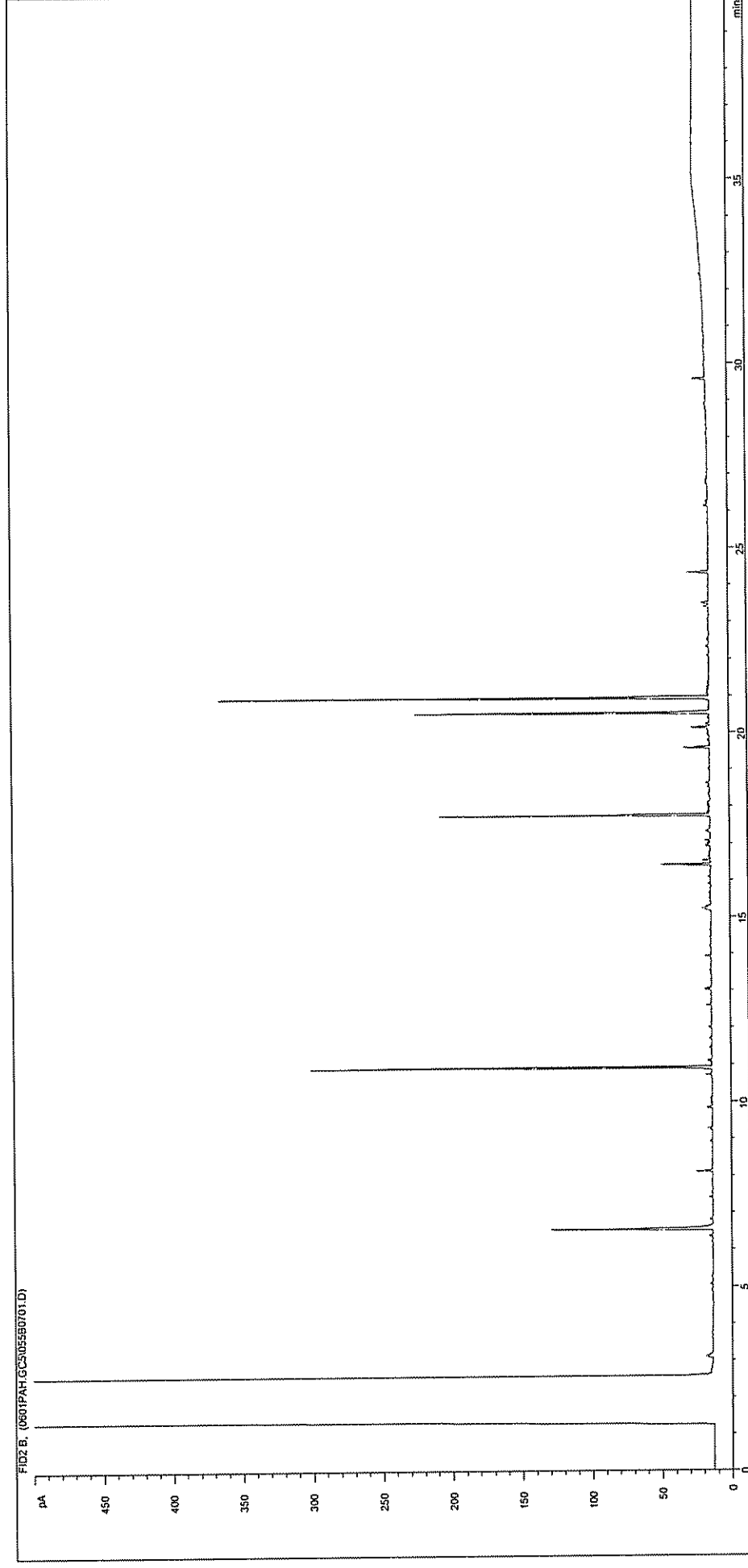
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Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT003 1.2
Acquisition Date/Time:	02-Jun-04		
Datafile:	D:\TESIDATA\0601PAH.GC51019F2101.D		

# Petroleum Hydrocarbons (C8 to C37) by GC/FID



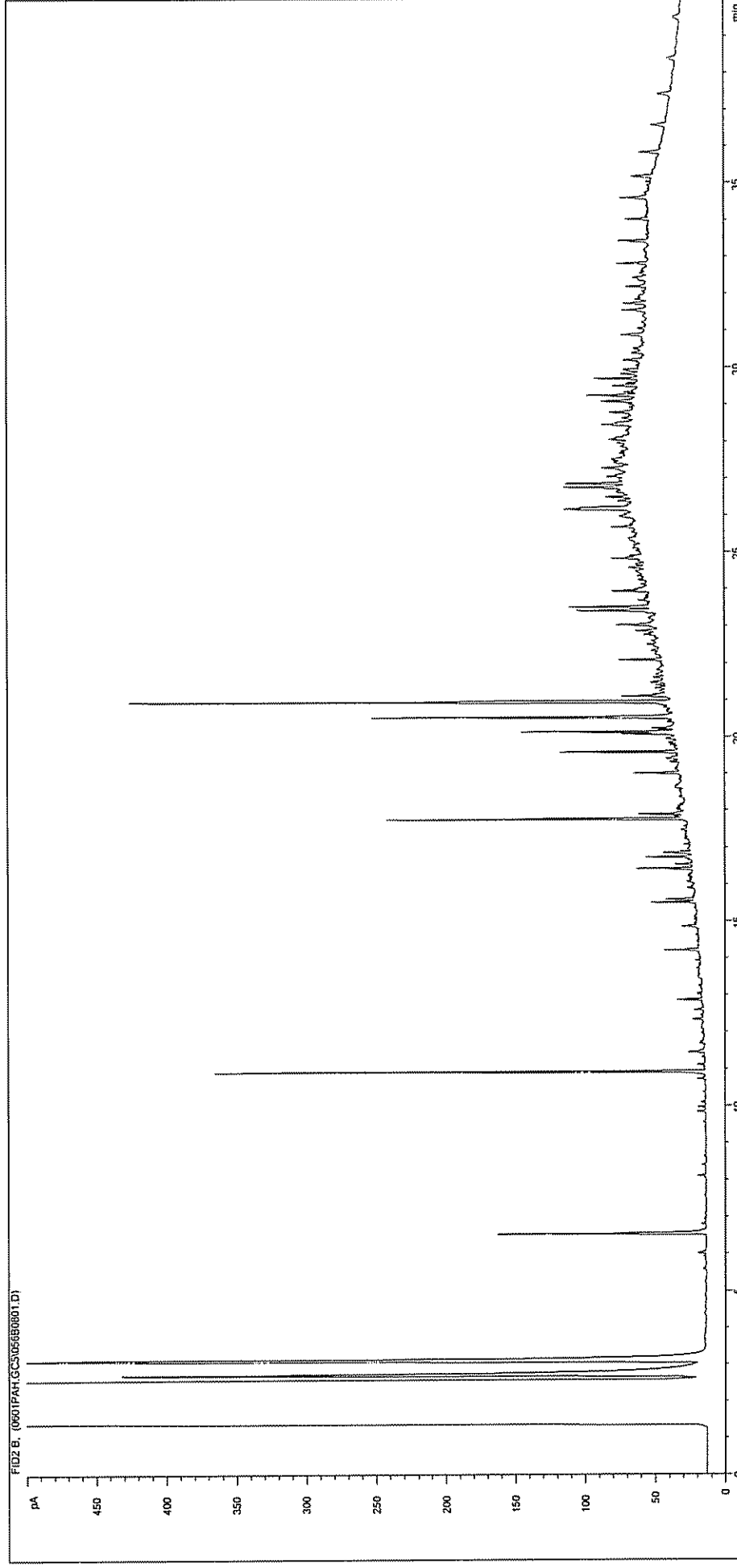
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<b>Multiplier:</b>	0.1	<b>Client:</b>	Enviros
<b>Dilution:</b>	1	<b>Site:</b>	Teeside C00520017A
<b>Acquisition Method:</b>	WMF_RUNF.M	<b>Client Sample Ref:</b>	7AT005 0.1
<b>Acquisition Date/Time:</b>	01-Jun-04		
<b>Datafile:</b>	D:\TES\DATA\0601PAH.GC5\054B0601.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



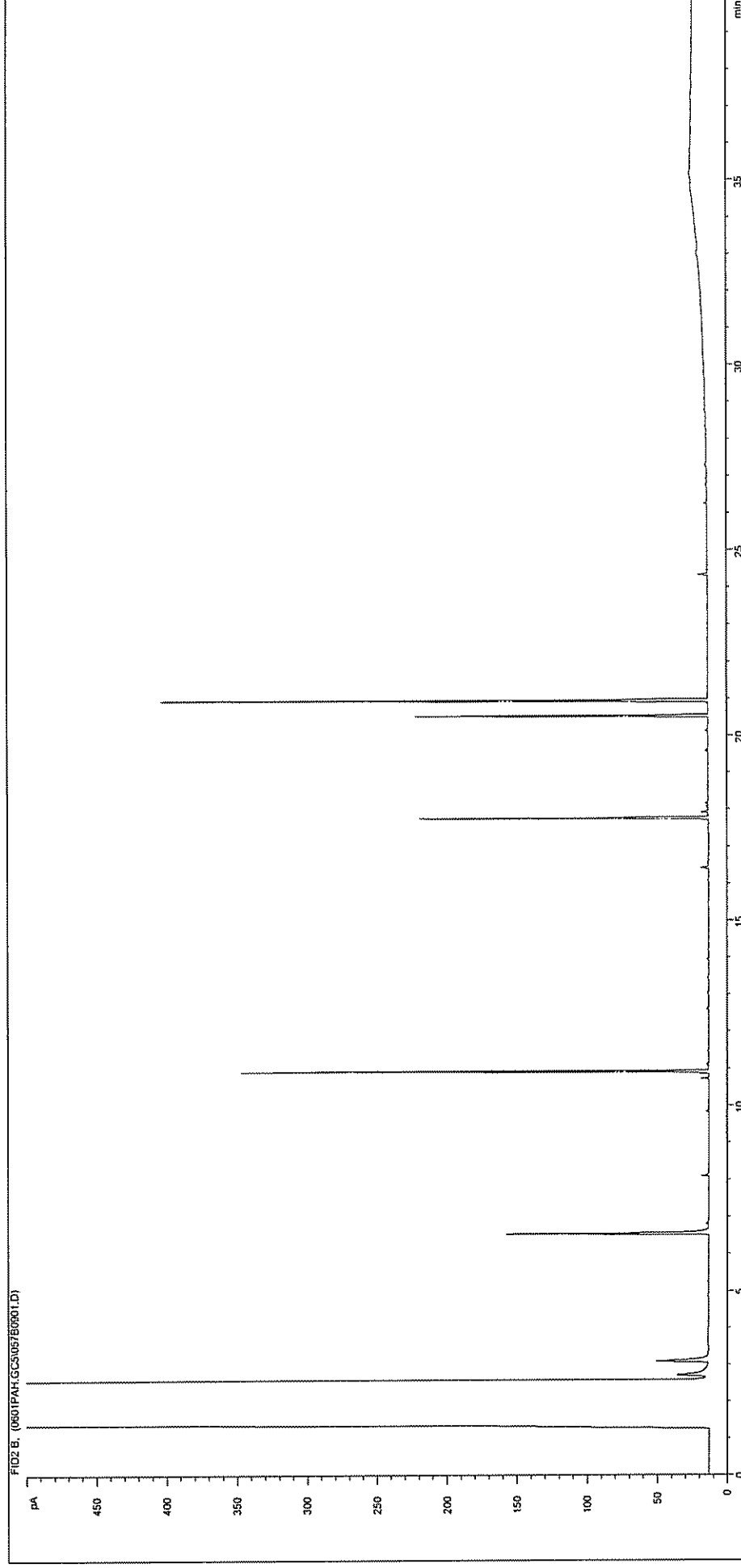
Sample ID:	CL0414967	Job Number:	S04_2270
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT005 4.0
Acquisition Date/Time:	01-Jun-04		
Datafile:	D:\TES\DATA\0601PAH.GC5\055B0701.D		

# Petroleum Hydrocarbons (C8 to C37) by GC/FID



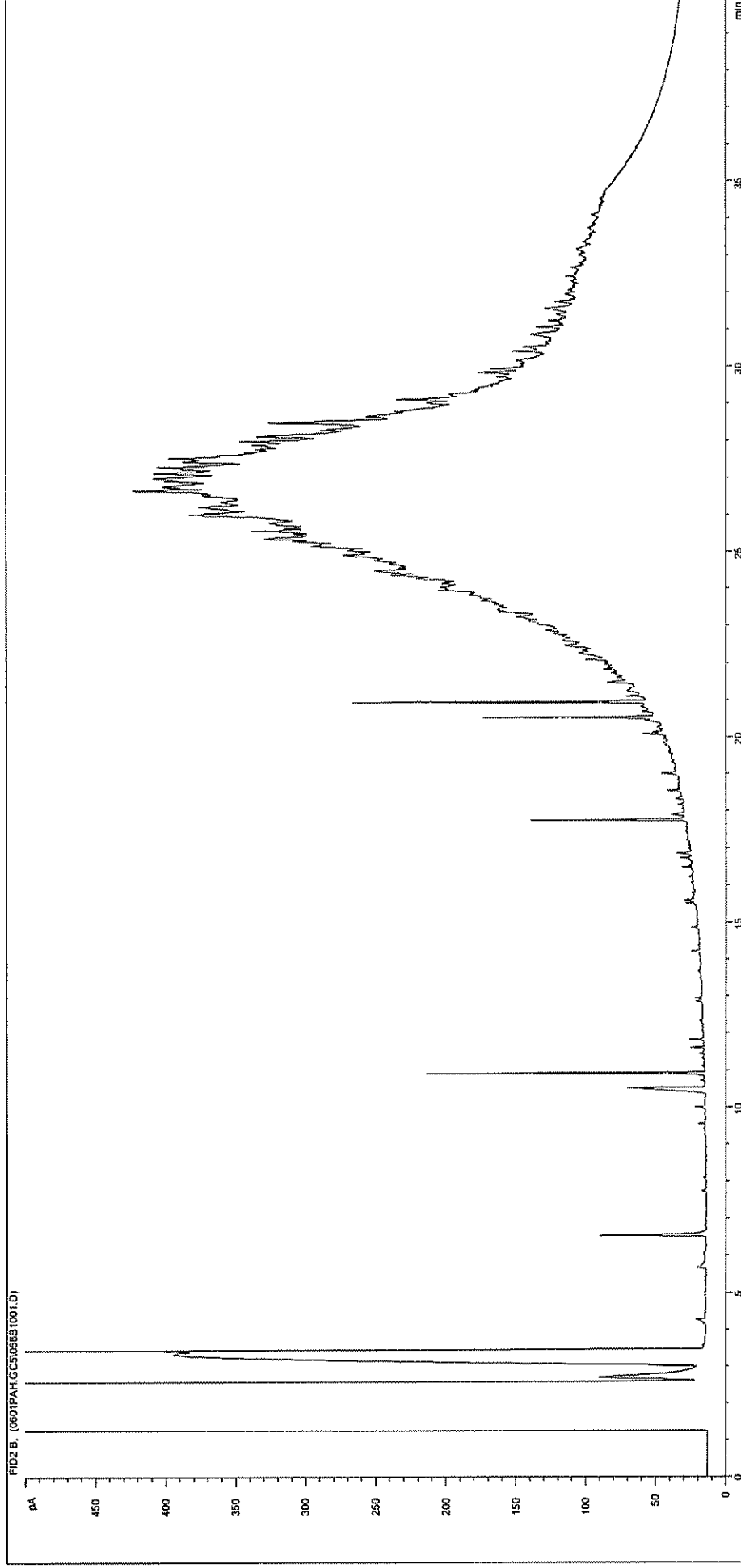
Sample ID:	CL0414968	Job Number:	S04_2270
Multipplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT006 0.2
Acquisition Date/Time:	01-Jun-04		
Datafile:	D:\TES\DATA\0601PAH.GC5\056B0801.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



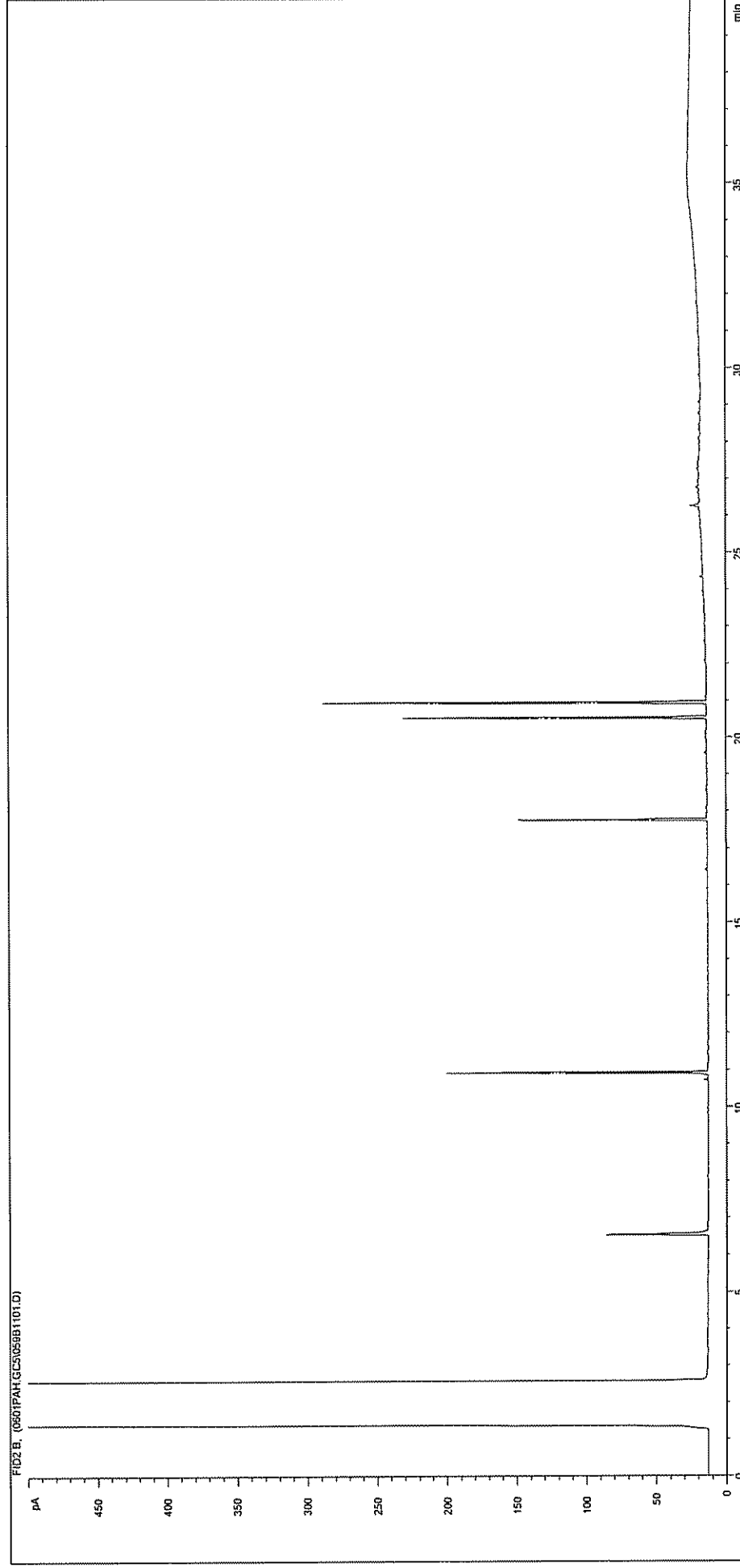
Sample ID:	CL0414969	Job Number:	S04_2270
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT006 1.5
Acquisition Date/Time:	01-Jun-04		
Datafile:	D:\TES\DATA\0601PAH.GC5\057B0901.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



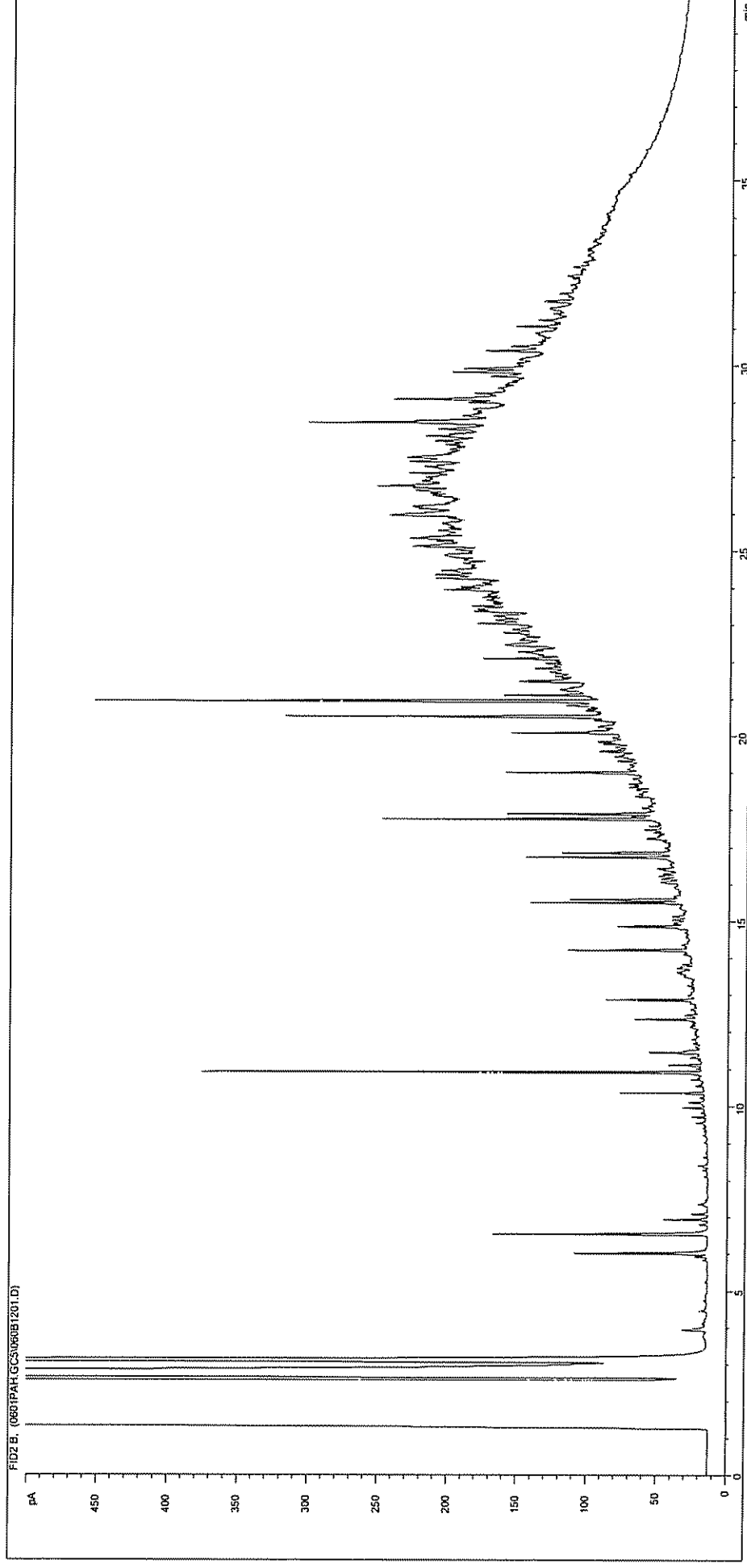
Sample ID:	CL0414970	Job Number:	S04_2270
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT008 0.3
Acquisition Date/Time:	01-Jun-04		
Datafile:	D:\TES\DATA\0601PAH.GC5\058B1001.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:	CL0414971	Job Number:	S04_2270
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	7AT008 1.4
Acquisition Date/Time:	01-Jun-04		
Datafile:	D:\TESIDATA\0601PAH.GC5\059B1101.D		

# Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

CL0414972

Multiplier:

0.1

Dilution:

1

Acquisition Method:

WMF\_RUNF.M

Acquisition Date/Time:

01-Jun-04

Datafile:

D:\TES\DATA\0601PAH.GC5060B1201.D

Job Number:

S04\_2270

Client:

Enviros

Site:

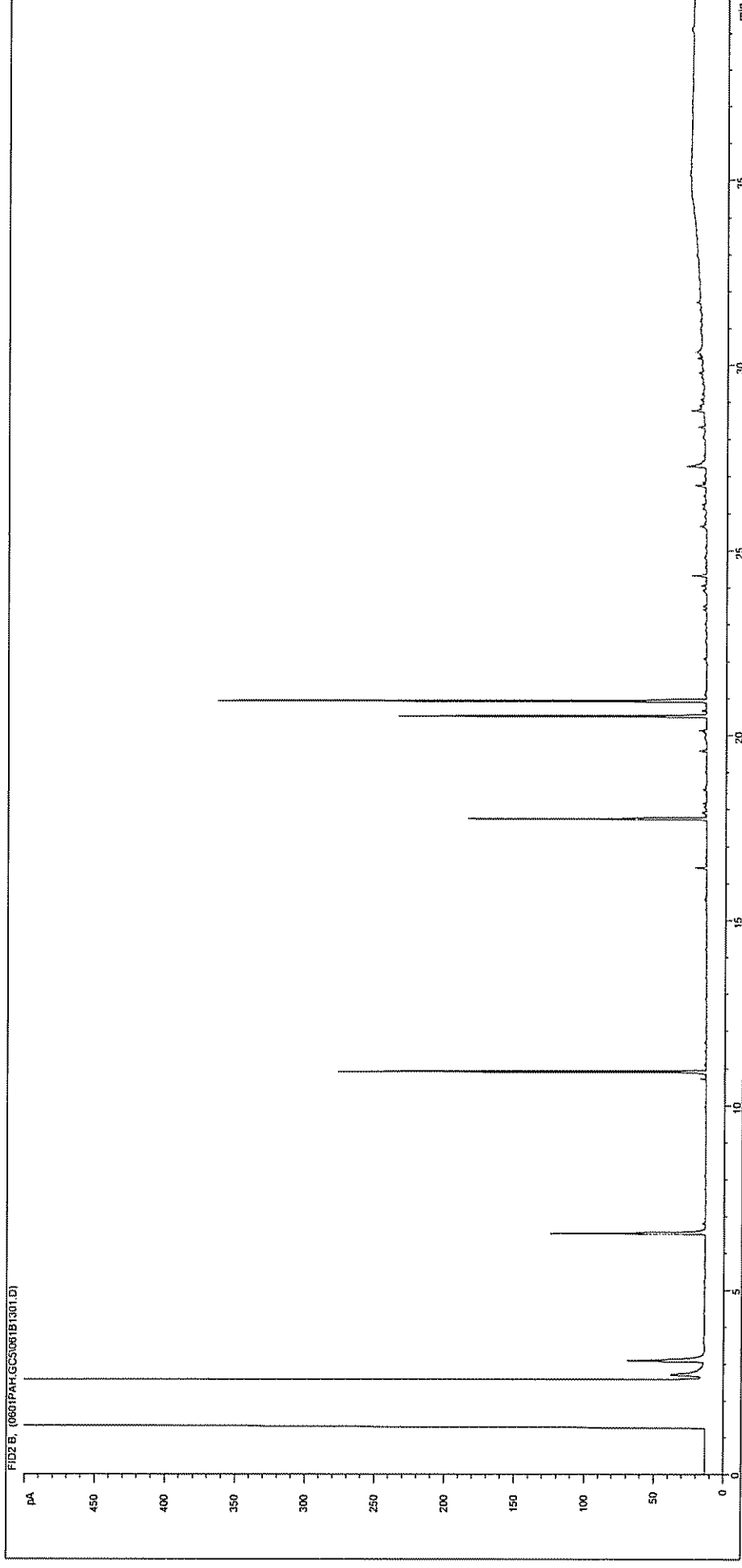
Teeside C00520017A

Client Sample Ref:

7AT009 0.2



Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

CL0414973

Multiplier:

0.1

Dilution:

1

Acquisition Method:

WMF\_RUNF.M

Acquisition Date/Time:

01-Jun-04

Datafile:

D:\TES\DATA\0601PAH.GC5\061B1301.D

Job Number:

S04\_2270

Client:

Enviros

Site:

Teeside C00520017A

Client Sample Ref:

7AT009 1.8

Interpretation of GC/FID Chromatographic data produced during DRO, PAH or TPH test.

Client :	Enviros	Date of assessment :	20-May-04
Site :	Lackenby Area 7	Assessor :	J McEwan
Report Number :		Test type :	TPH GCFID

Lab ID Number	Client ID	Interpretation
CL0411373	7AB001 1.7	Lean extract, insufficient for ID.
CL0411374	7AB001 5.5	Lean extract, insufficient for ID.
CL0411375	7AB002 4.1	Lean extract, insufficient for ID.
CL0411376	7AB002 8.0	Low level UCM in the range nC14-nC37+. Some unidentified fine structure. n-Alkane trace including pristane/phytane.
CL0411377	7AB003 5.2	Low level UCM in the range nC14-nC37+. Some unidentified fine structure. n-Alkane trace including pristane/phytane.
CL0411378	7AB004 2.6	UCM in the range nC14-nC37+. Some unidentified fine structure. n-Alkane trace including pristane/phytane. Trace of PAHs.
CL0412184	7AB005 0.55	Lean extract, insufficient data for ID.
CL0412185	7AB005 1.8	Lean extract, insufficient data for ID.
CL0414962	7AT001 1.5	Large presence of PAHs.

Authorised by :  G.C. Risdon  
Associate Director, Environmental Analysis

**Interpretation of GC/FID Chromatographic data produced during DRO, PAH or TPH test.**

Client :	Enviros	Date of assessment :	20-May-04
Site :	Lackenby Area 7	Assessor :	J McEwan
Report Number :		Test type :	TPH GC/FID

Lab ID Number	Client ID	Interpretation
CL0414963	7AT001 3.0	Large presence of PAHs.
CL0414964	7AT003 0.2	Low level UCM in the range nC14-nC37+.
CL0414965	7AT003 1.2	Lean extract, insufficient for ID.
CL0414966	7AT005 0.1	Trace of PAHs. Low level UCM in the range nC14-nC37+.
CL0414967	7AT005 4.0	Lean extract, insufficient for ID.
CL0414968	7AT006 0.2	Trace of PAHs. UCM in the range nC14-nC37+. n-Alkane trace including pristane/phytane.
CL0414969	7AT006 1.5	Lean extract, insufficient for ID.
CL0410979	7AT007 0.2	Mineral Oil style UCM in the range nC18-nC37+. Some unidentified fine structure. n-Alkane trace including pristane/phytane.
CL0410980	7AT007 3.0	UCM in the range nC14-nC37+. Some unidentified fine structure. n-Alkane trace including pristane/phytane. Trace of PAHs.

Authorised by :  G.C. Risdon  
Associate Director, Environmental Analysis

Interpretation of GC/FID Chromatographic data produced during DRO, PAH or TPH test.

Client :	Enviros	Date of assessment :	20-May-04
Site :	Lackenby Area 7	Assessor :	J McEwan
Report Number :		Test type :	TPH GC/FID

Lab ID Number	Client ID	Interpretation
CL0414970	7AT008 0.3	Mineral Oil style UCM in the range nC18-nC37+.
CL0414971	7AT008 1.4	Lean extract, insufficient for ID.
CL0414972	7AT009 0.2	UCM in the range nC14-nC37+, n-Alkane trace including pristane/phytane.
CL0414973	7AT009 1.8	Lean extract, insufficient for ID.
CL0410981	7AT010 0.3	UCM in the range nC14-nC37+, Some unidentified fine structure. n-Alkane trace including pristane/phytane. Trace of PAHs.
CL0410982	7AT010 4.0	Lean extract, insufficient for ID.
CL0410977	7AT011 0.2	UCM in the range nC14-nC37+, Some unidentified fine structure. n-Alkane trace including pristane/phytane. Trace of PAHs.
CL0410978	7AT011 3.9	Some unidentified fine structure. n-Alkane trace including pristane/phytane.
CL0413985	7AT002 0.5	Mineral Oil style UCM in the range nC18-nC37+. Some low level laboratory introduced contamination.

Authorised by :  G.C. Risdon  
Associate Director, Environmental Analysis

Interpretation of GC/FID Chromatographic data produced during DRO, PAH or TPH test.

Client :	Enviros	Date of assessment :	20-May-04
Site :	Lackenby Area 7	Assessor :	J McEwan
Report Number :		Test type :	TPH GCFID

Lab ID Number	Client ID	Interpretation
CL0413986	7AT002 2.3	Lean extract, insufficient for ID.
CL0413987	7AT004 2.0	Lean extract, insufficient for ID.
CL0413988	7AT004 3.0	Lean extract, insufficient for ID.
CL0411606	7T012 0.2	Large UCM in the range nC14-nC37+. Trace of PAHs. Possibly bio-degraded fuel oil / tar.
CL0411607	7T012 4.0	Lean extract, insufficient for ID.

Authorised by : J. Hannah G.C. Risdon  
Associate Director, Environmental Analysis

# Report Notes

## **Soil/Solid analysis specific:**

Results expressed as mg/kg unless stated otherwise  
S04 analysis not conducted in accordance with BS1377  
Water Soluble Sulphate on 2:1 water:soil extract  
AR denotes analysis conducted on the As Received sample  
# co-eluted with benzo(b)fluoranthene  
## co-eluted with Indeno(123-cd)pyrene  
BTEX analysis expressed as ug/kg As Received  
Phenol HPLC results expressed as mg/kg As Received

## **Water analysis specific:**

Results expressed as mg/l unless stated otherwise

## **Oil analysis specific:**

Results expressed as mg/kg unless stated otherwise  
S.G. expressed as g/cm<sup>3</sup> @ 15°C

## **Filter analysis specific:**

Results expressed as mg on filter unless stated otherwise

## **VOC analysis specific:**

Explanatory notes for data flagging  
U = undetected above reporting limit  
J = concentration at instrument was below lowest calibration standard  
E = concentration at instrument was above top calibration standard  
B = compound was detected in method blank

## **Gas (Tedlar bag) analysis specific:**

Results expressed as ug/l unless stated otherwise

## **Air (Carbon tube) analysis specific:**

Results expressed as ug on tube unless stated otherwise

## **Asbestos analysis specific:**

CH denotes Chrysotile  
CR denotes Crocidolite  
AM denotes Amosite  
NADIS denotes No Asbestos Detected in Sample  
NBFO denotes No Bulk fibres Observed  
T Trace  
L Low (2-15%)  
M Medium (15-50%)  
H High (>50%)

## **General notes:**

^ this analysis was subcontracted to another laboratory  
\$ Within laboratory tolerances  
\$\$ unable to analyse due to nature of sample  
¥ Results for guidance only, possible interference  
& Blank corrected  
I.S insufficient sample for analysis  
Intf Unable to analyse due to interferences  
N.D Not determined  
N.R Not recorded  
N.Det Not detected  
Req Analysis Requested, see attached sheets for results  
\* denotes this result not UKAS accredited on this sample  
▷ Raised detection limit due to nature of sample

# TEST REPORT SOIL SAMPLE ANALYSIS

## Combined Report TES Report No. Lackenby Area 8

Site: Lackenby Area 8

Enviros  
Sanderson House  
Station Road  
Horsforth  
Leeds  
LS18 5NT

The 15 samples described in this report were scheduled for analysis by TES Bretby between 27/04/04 and 07/05/04. The analysis was completed by Friday, 11 June 2004.

Tests marked as 'not UKAS accredited' and any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by TES Bretby laboratories.

The following tables are contained in this report:

Table 1 Main Analysis Results  
Tables of TPH Chromatograms (15 Pages)  
Tables of TPH Interpretations (2 Pages)  
Table of Report Notes (1 Page)

On behalf of  
TES Bretby : J Hannah  
J Hannah Project Co-ordinator

Date of Issue: 11/06/04

Tests marked 'not UKAS accredited' in this report are not included  
in the UKAS Accreditation Schedule for our laboratory.

TES Bretby accepts no responsibility for the sampling related to the above results

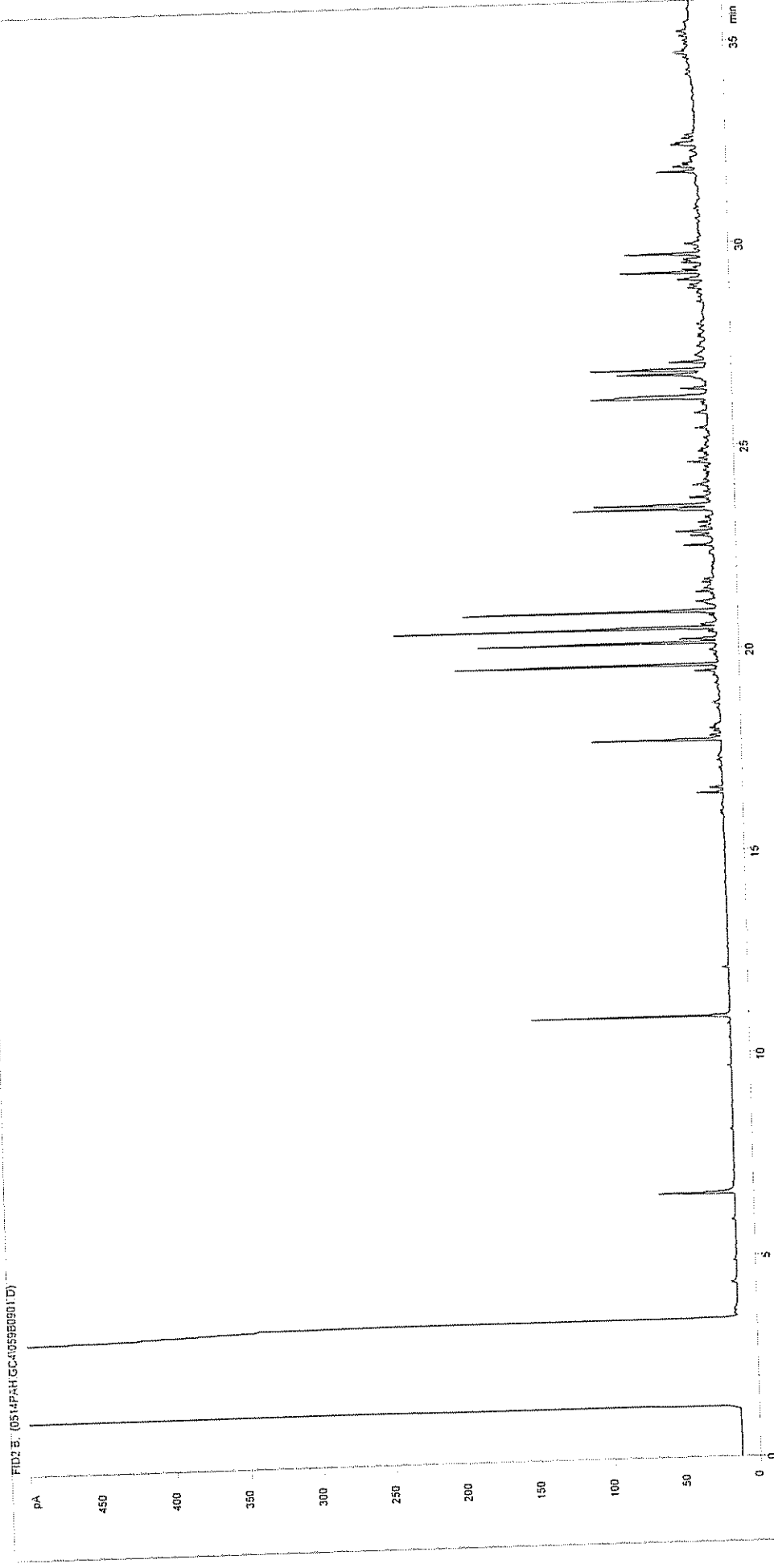
[illegible]



[illegible]

[illegible]

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

Multiplier:

Dilution:

Acquisition Method:

Acquisition Date/Time:

Datafile:

CL0410983

0.1

1

WMF\_RUNF.M

15-May-04

C:\TES\DATA\0514PAH.GC4\059B0901.D

Job Number:

Client:

Site:

Client Sample Ref:

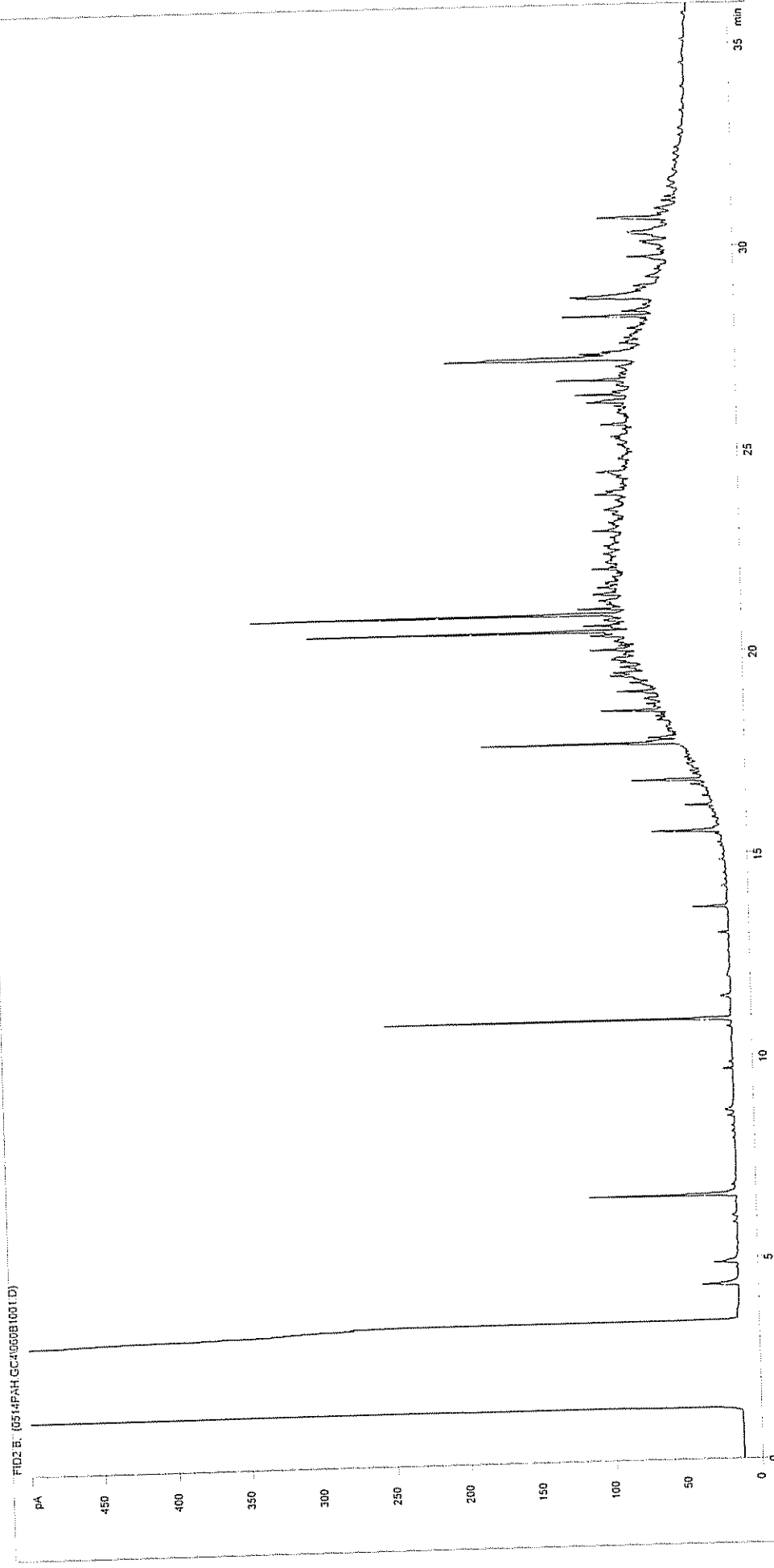
S04\_1718

Enviros

Teeside C00520017A

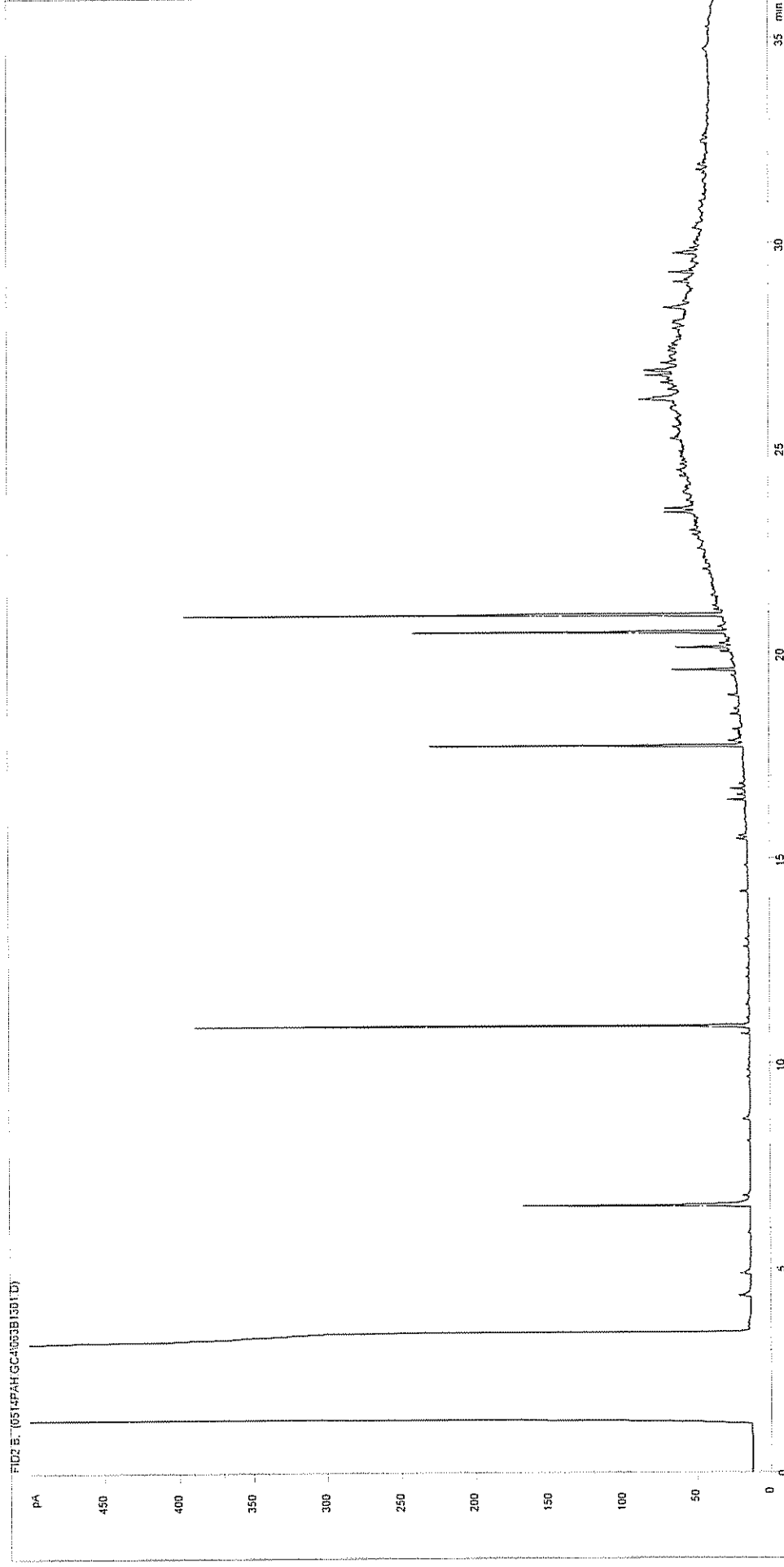
8AT002 0.2

Petroleum Hydrocarbons (C8 to C37) by GC/FID



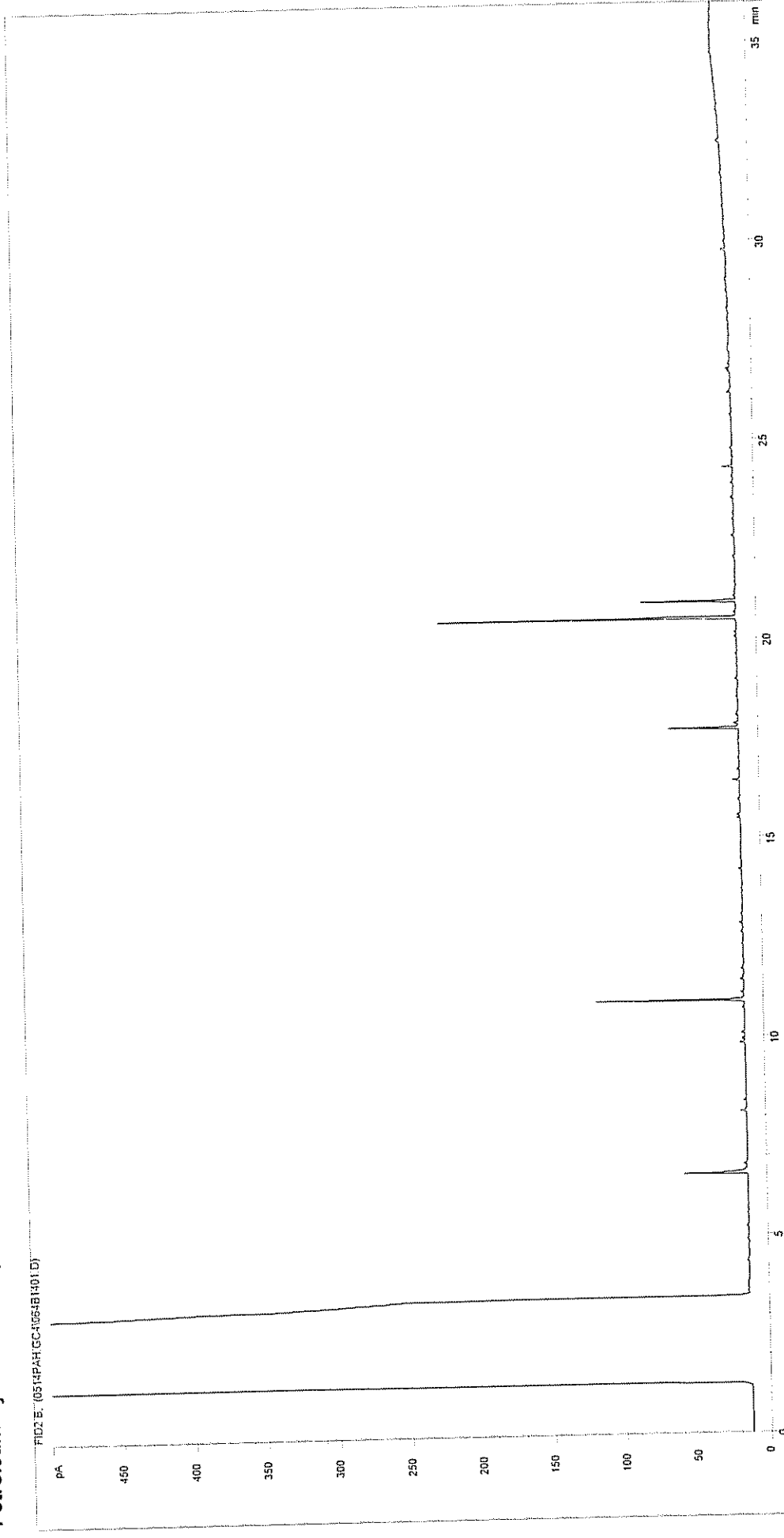
Sample ID:	CL0410984	Job Number:	S04_1718
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	8AT002 4.0
Acquisition Date/Time:	15-May-04		
Datafile:	C:\TESIDATA\0514PAH.GC4\060B1001.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:	CL0410985	Job Number:	S04_1718
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	8AT001 0.3
Acquisition Date/Time:	15-May-04		
Datafile:	C:\TES\DATA\0514PAH.GC4\063B1301.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

Multiplier:

Dilution:

Acquisition Method:

Acquisition Date/Time:

Datafile:

CL0410986

0.1

1

WMF\_RUNF.M

15-May-04

C:\TES\DATA\0514PAH.GC4\064B1401.D

Job Number:

Client:

Site:

Client Sample Ref:

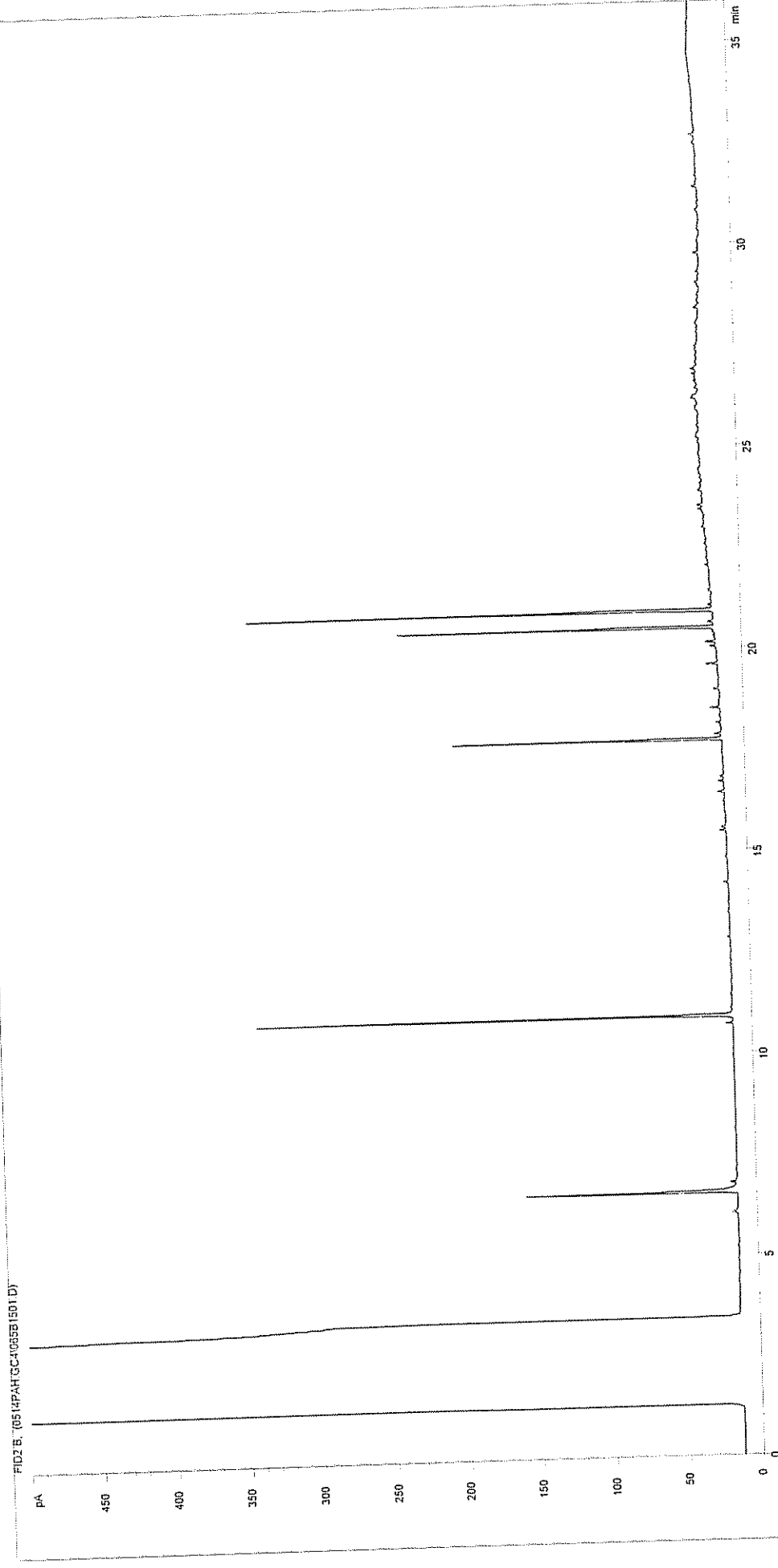
S04\_1718

Enviros

Teeside C00520017A

8AT001 1.2

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

Multiplier:

Dilution:

Acquisition Method:

Acquisition Date/Time:

Datafile:

CL0410987

0.1

1

WMF\_RUNF.M

15-May-04

C:\TES\DATA\0514PAH.GC4065B1501.D

Job Number:

Client:

Site:

Client Sample Ref:

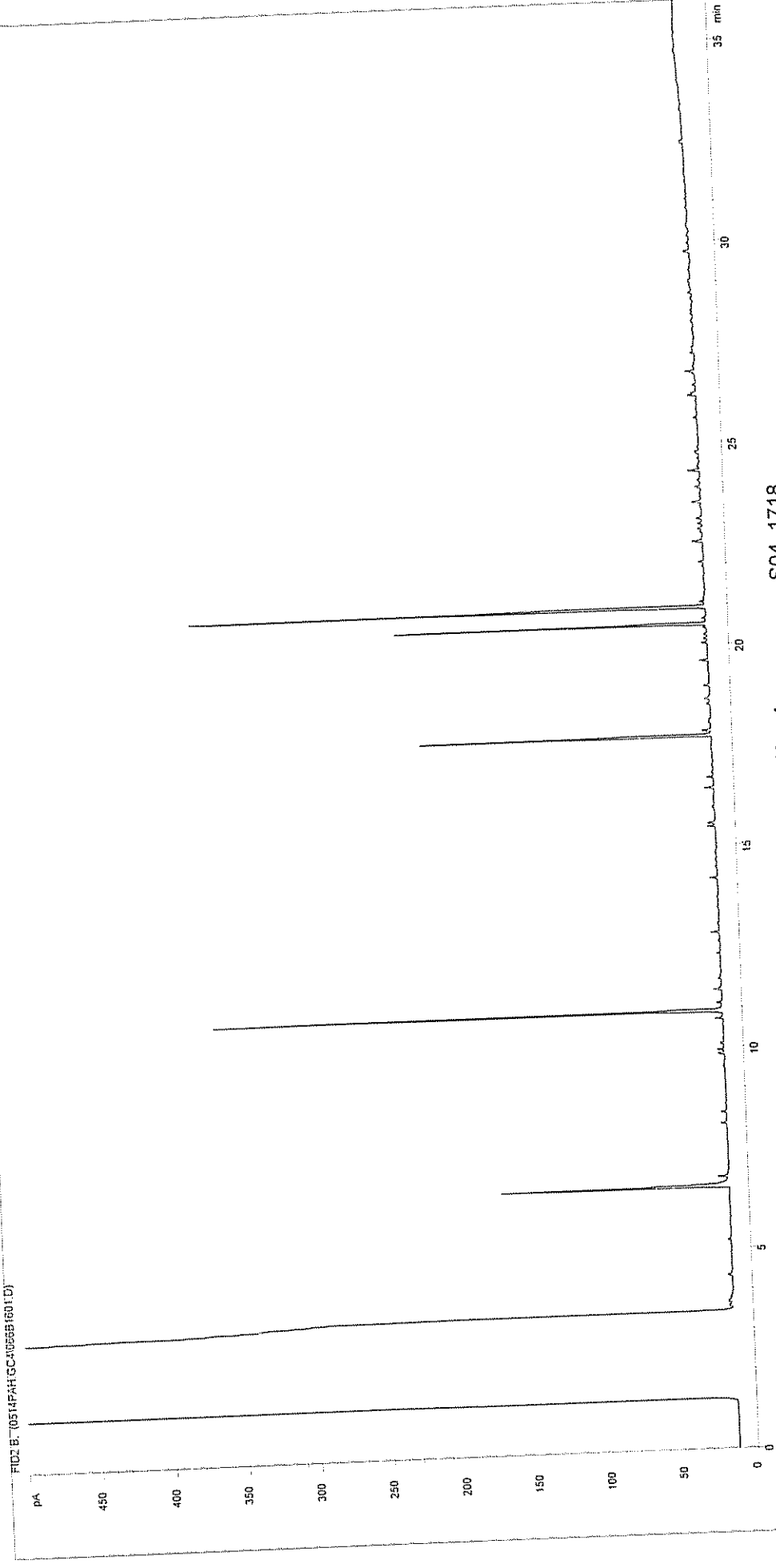
S04\_1718

Enviros

Teeside C00520017A

8AT006 0.3

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

Multiplier:

Dilution:

Acquisition Method:

Acquisition Date/Time:

Datafile:

CL0410988

0.1

1

WMF\_RUNF.M

15-May-04

C:\TES\DATA\0514PAH.GC4\066B1601.D

Job Number:

Client:

Site:

Client Sample Ref:

S04\_1718

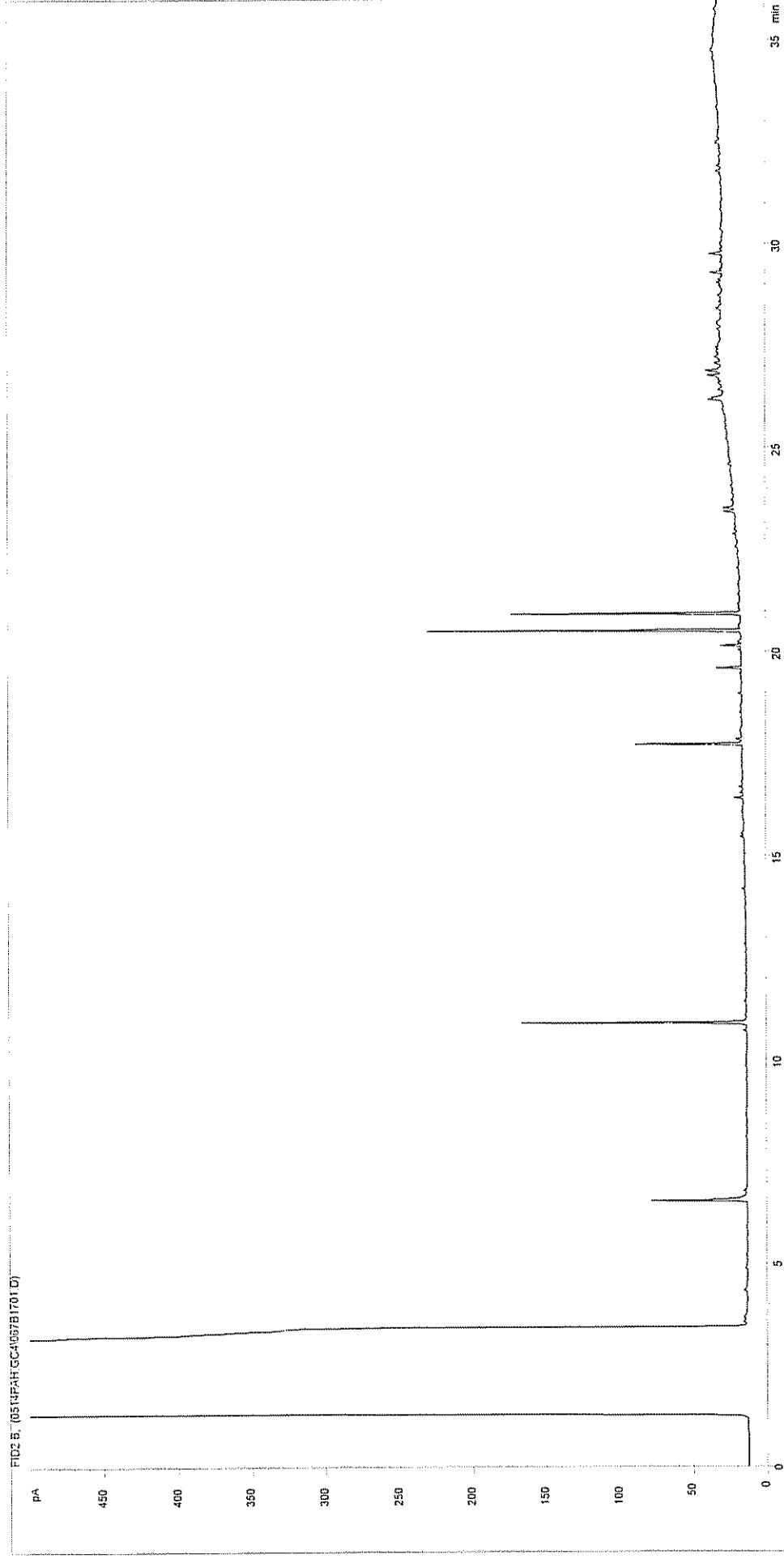
Enviros

Teeside C00520017A

8AT006 1.5



Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

Multiplier:

Dilution:

Acquisition Method:

Acquisition Date/Time:

Datafile:

CL0410989

0.1

1

WMF\_RUNF.M

15-May-04

C:\TES\DATA\0514PAH.GC4\067B1701.D

Job Number:

Client:

Site:

Client Sample Ref:

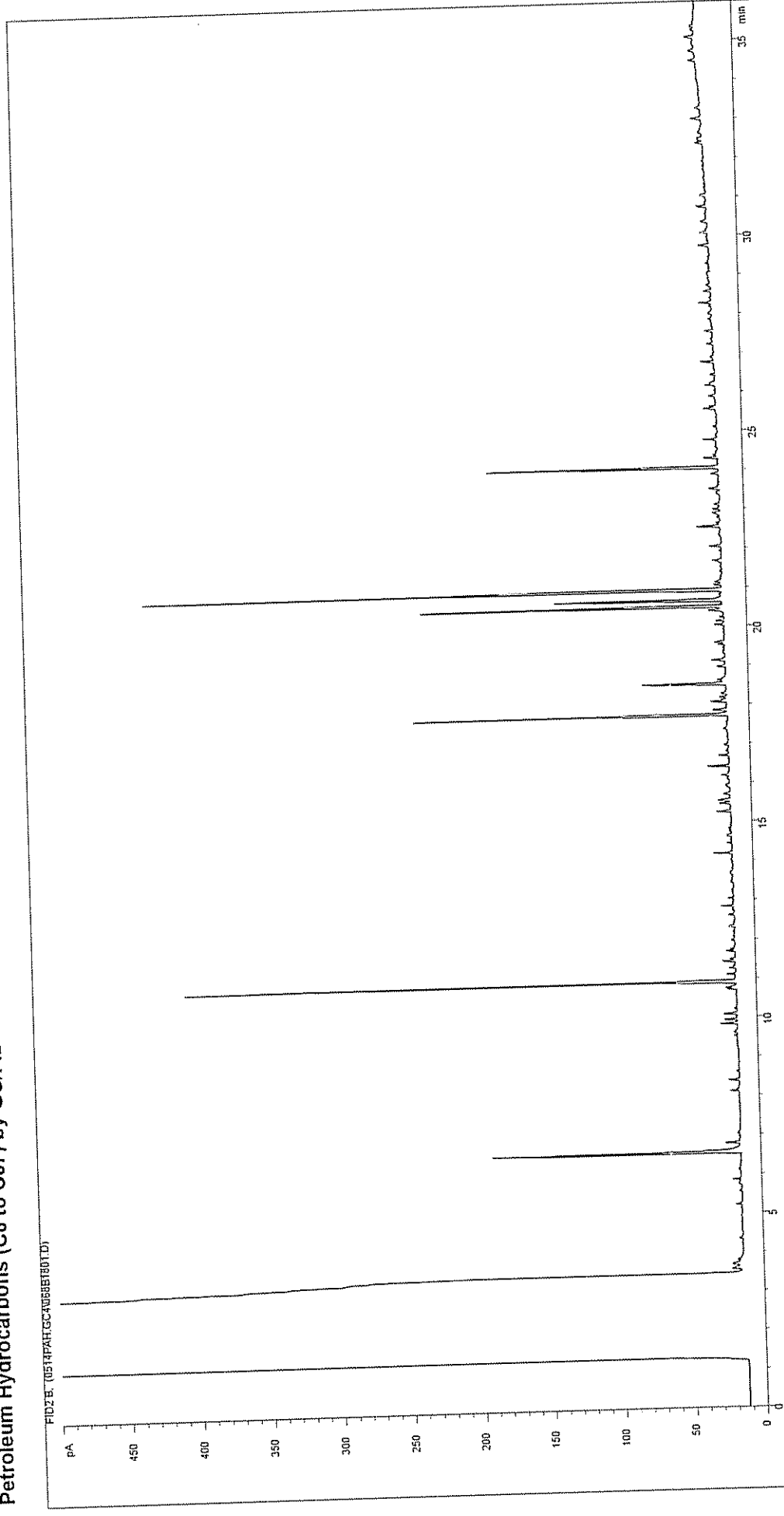
S04\_1718

Enviros

Teeside C00520017A

8AT004 0.2

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

Multiplier:

Dilution:

Acquisition Method:

Acquisition Date/Time:

Datafile:

CL0410990

0.1

1

WMF\_RUNF.M

15-May-04

C:\TES\DATA\0514PAH.GC4068B1801.D

Job Number:

Client:

Site:

Client Sample Ref:

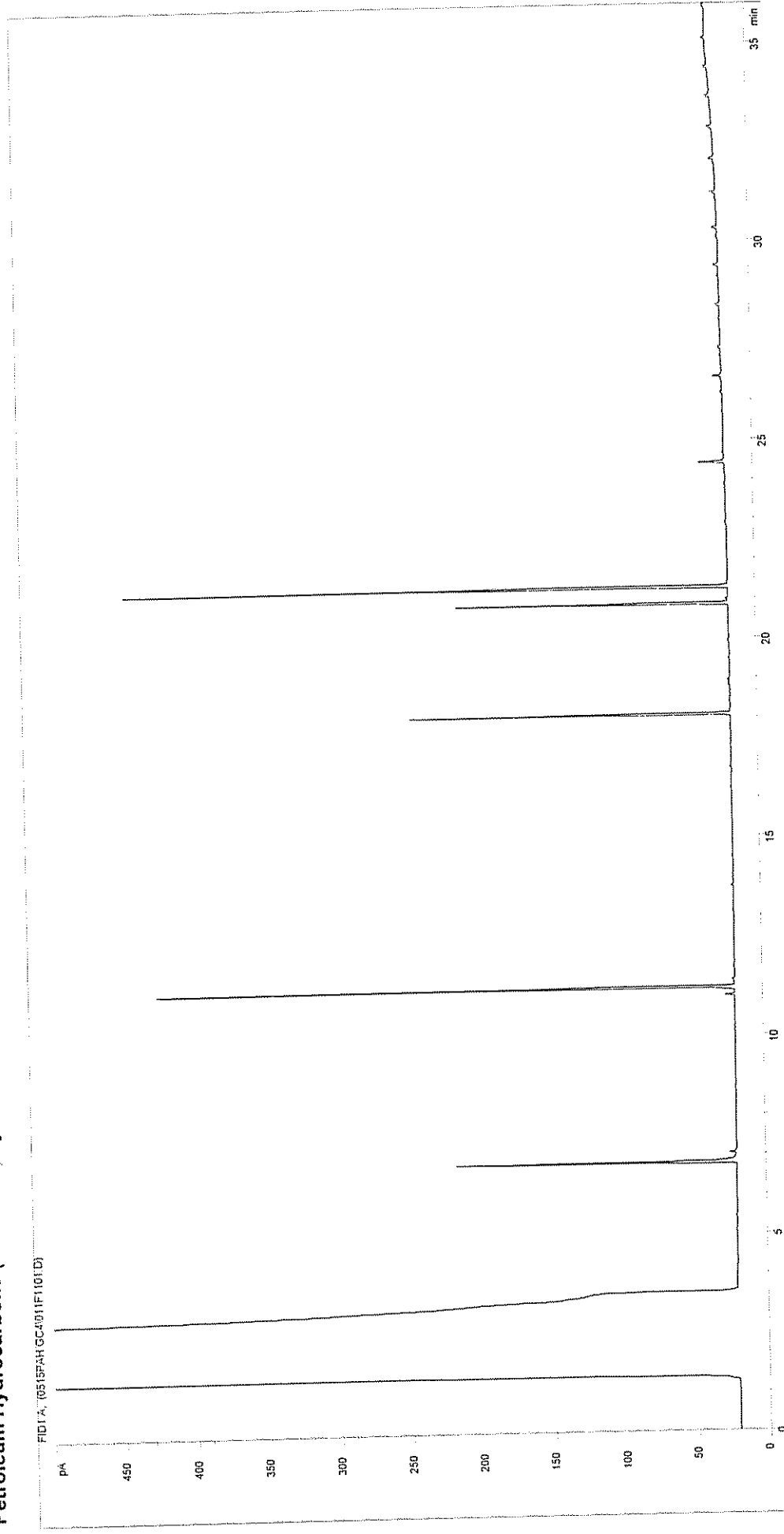
S04\_1718

Enviros

Teeside C00520017A

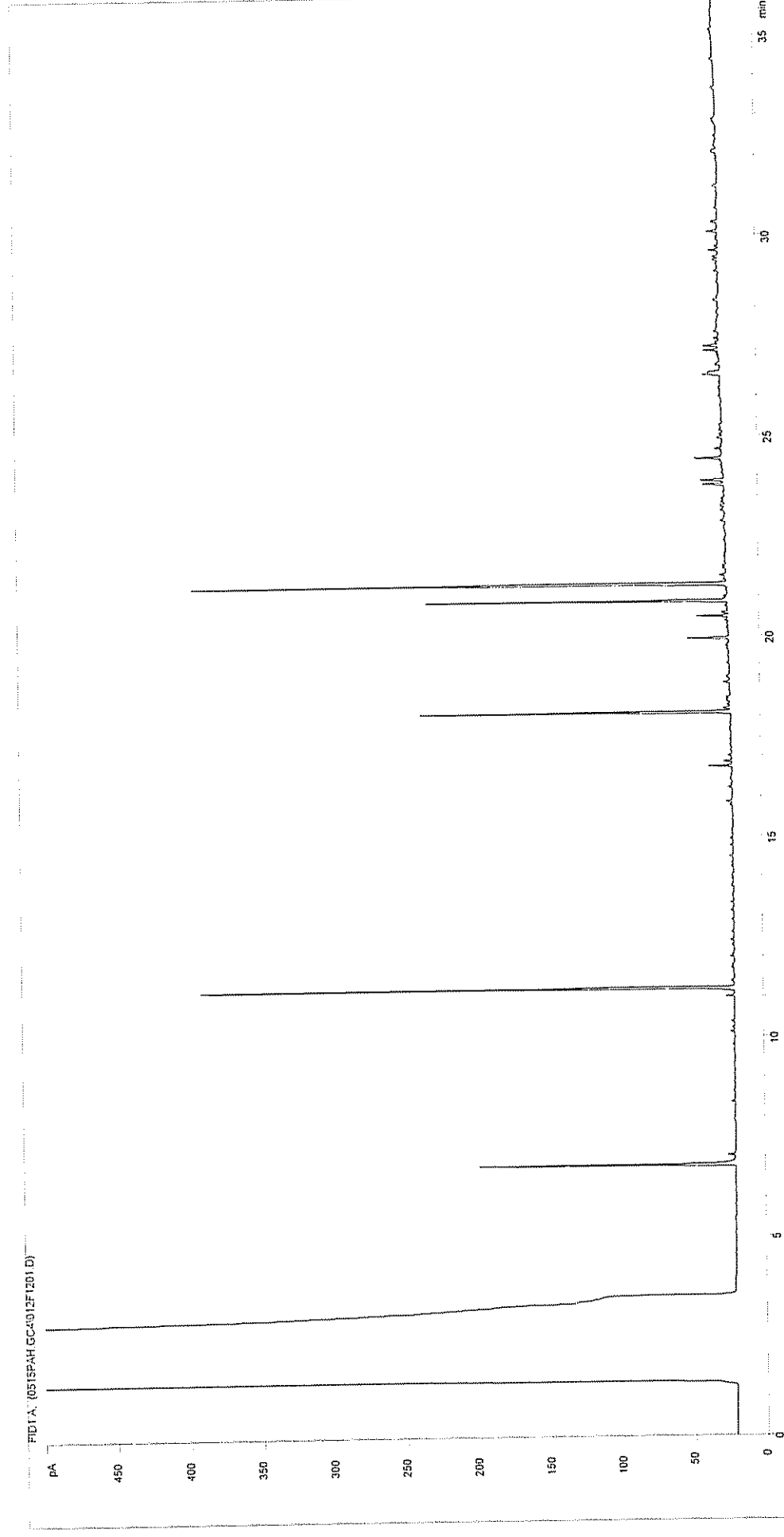
8AT004 1.6

# Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:	CL0411174	Job Number:	S04_1746
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	8AT005 0.3
Acquisition Date/Time:	15-May-04		
Datafile:	C:\TESIDATA\0515PAH.GC4\011F1101.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

Multiplier:

Dilution:

Acquisition Method:

Acquisition Date/Time:

Datafile:

CL0411175

0.1

1

WMF\_RUNF.M

15-May-04

C:\TES\DATA\0515PAH.GC4\012F1201.D

Job Number:

Client:

Site:

Client Sample Ref:

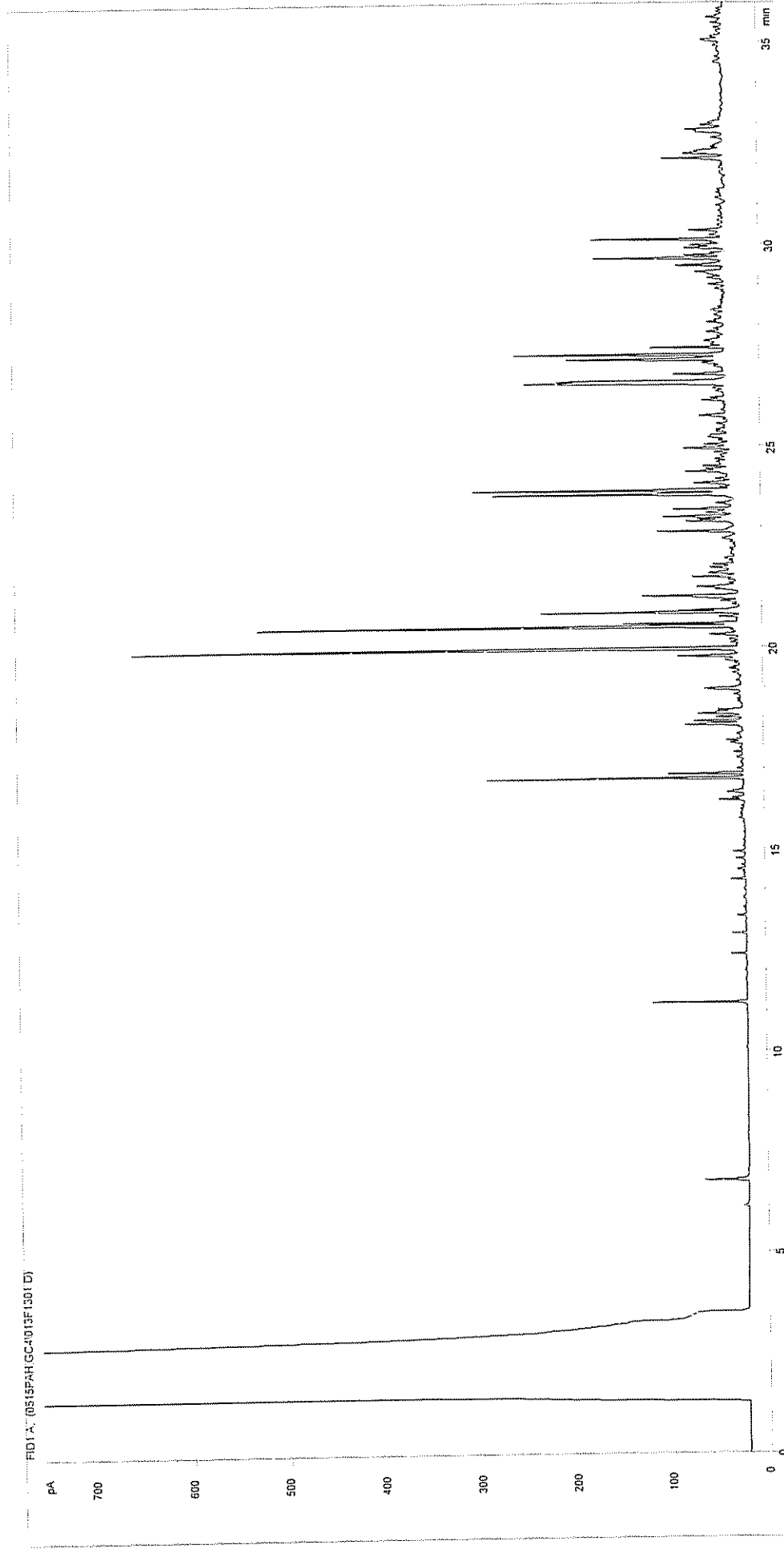
S04\_1746

Enviros

Teeside C00520017A

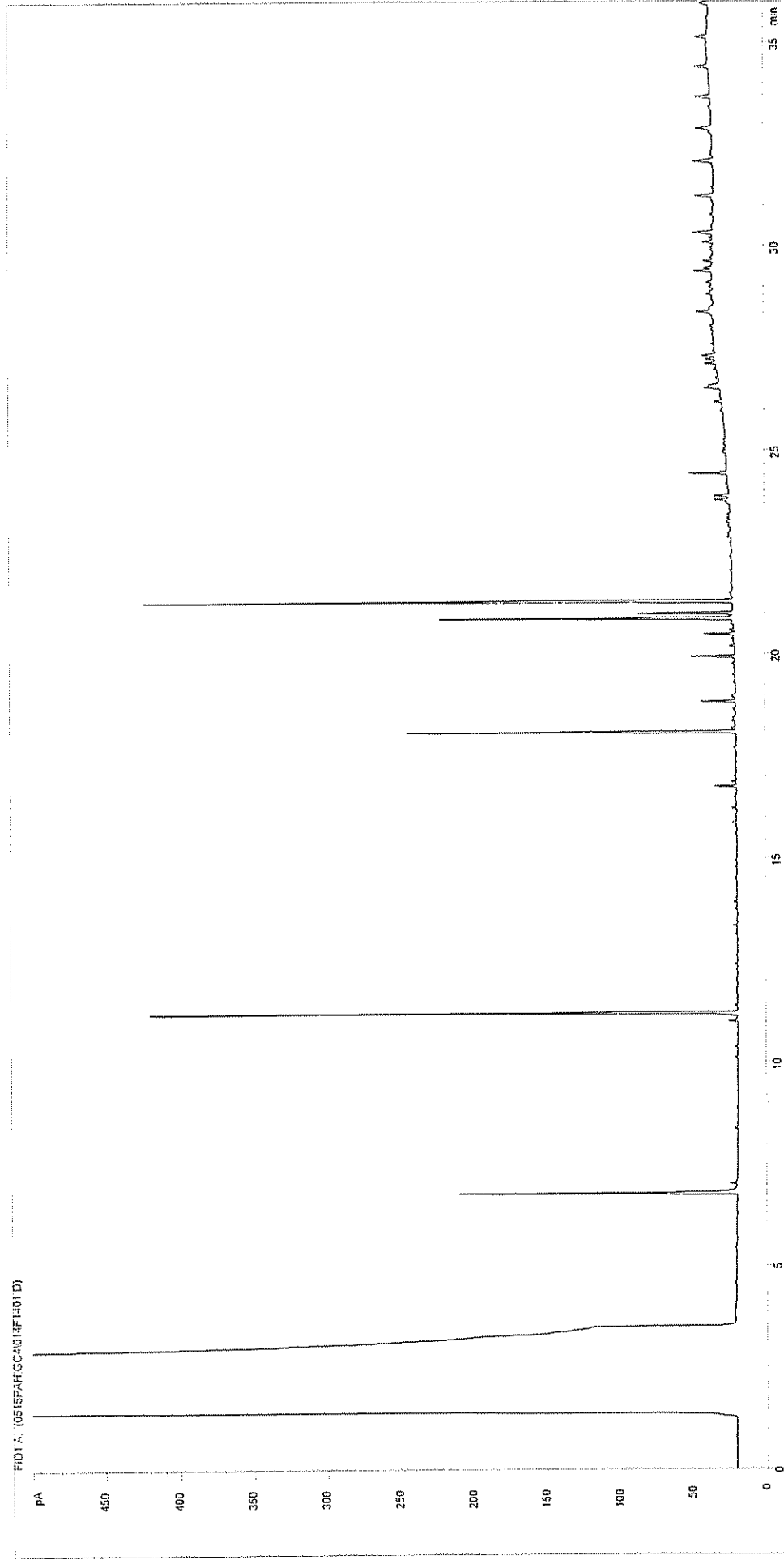
8AT005 3.2

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:	CL0411176	Job Number:	S04_1746
Multiplier:	0.1	Client:	Enviros
Dilution:	5	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	8AT003 0.2
Acquisition Date/Time:	15-May-04		
Datafile:	C:\TES\DATA\0515PAH.GC4\013F1301.D		

# Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

Multiplier:

Dilution:

Acquisition Method:

Acquisition Date/Time:

Datafile:

CL0411177

0.1

1

WMF\_RUNF.M

16-May-04

C:\TES\DATA\0515PAH.GC4\014F1401.D

Job Number:

Client:

Site:

Client Sample Ref:

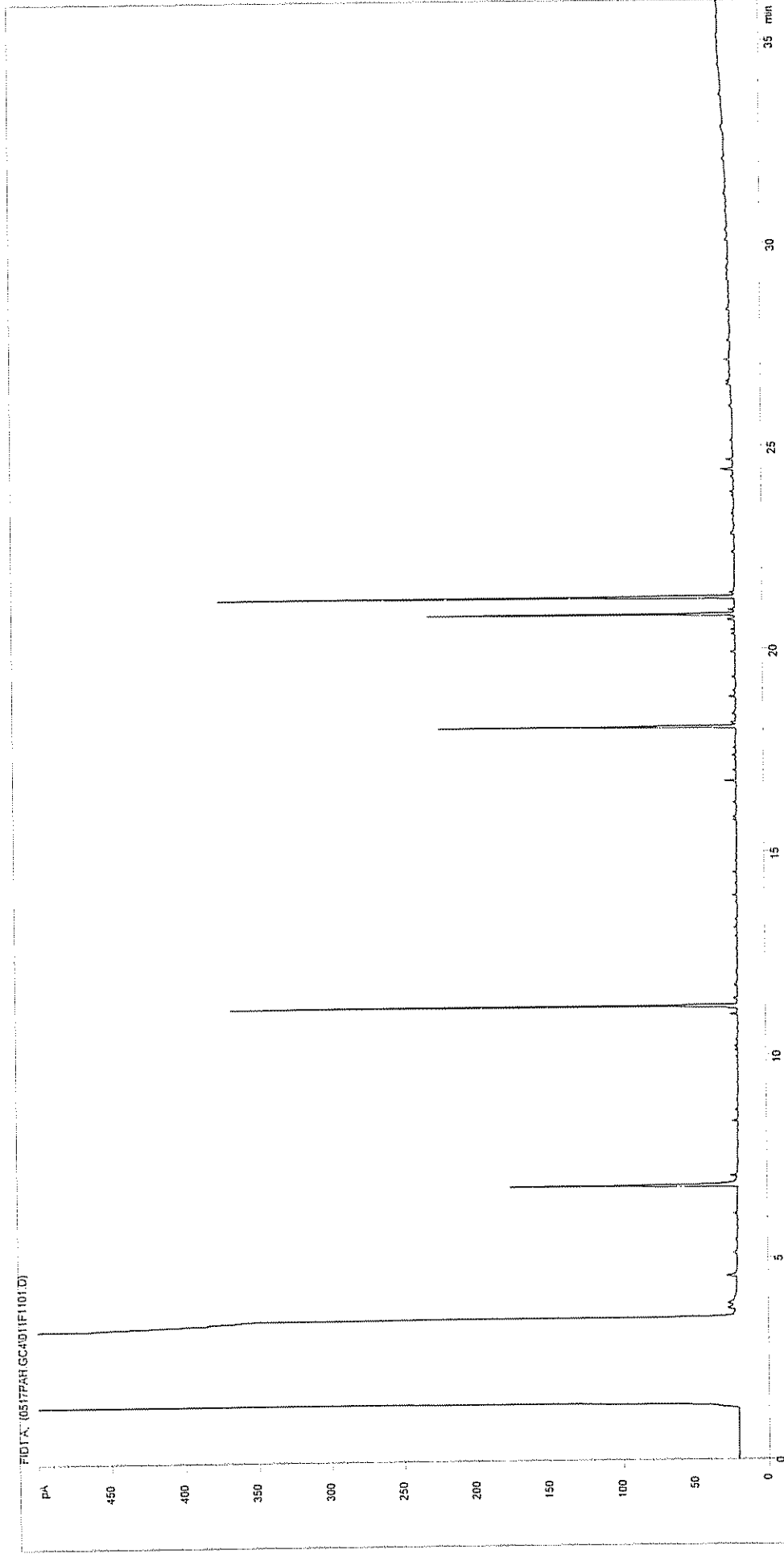
S04\_1746

Enviros

Teeside C00520017A

8AT003 3.8

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

Multiplier:

Dilution:

Acquisition Method:

Acquisition Date/Time:

Datafile:

CL0412181

0.1

1

WMF\_RUNF.M

17-May-04

C:\TES\DATA\0517PAH.GC4\011F1101.D

Job Number:

Client:

Site:

Client Sample Ref:

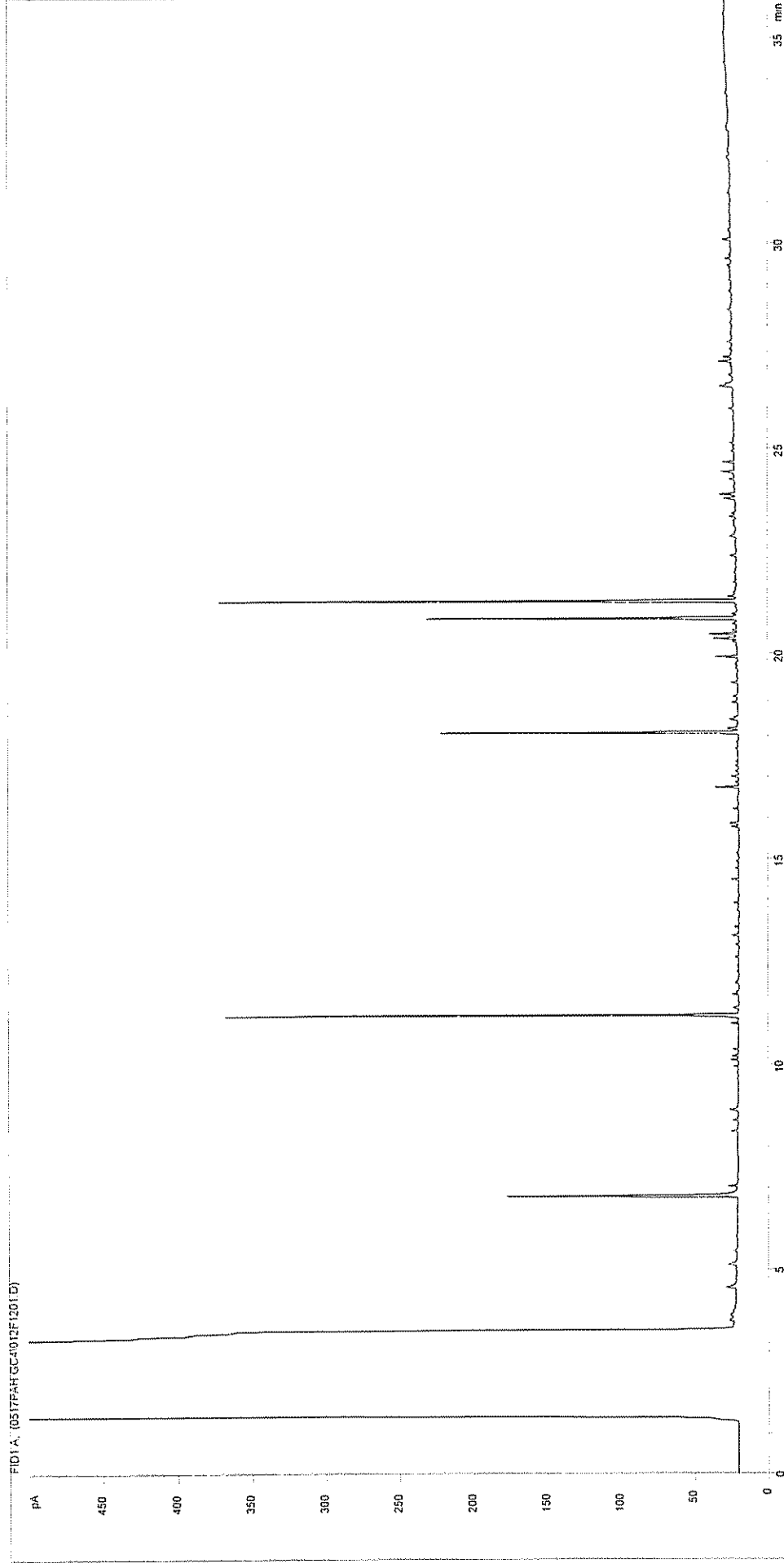
S04\_1895

Enviros

Teeside C00520017A

8AB001 2.2

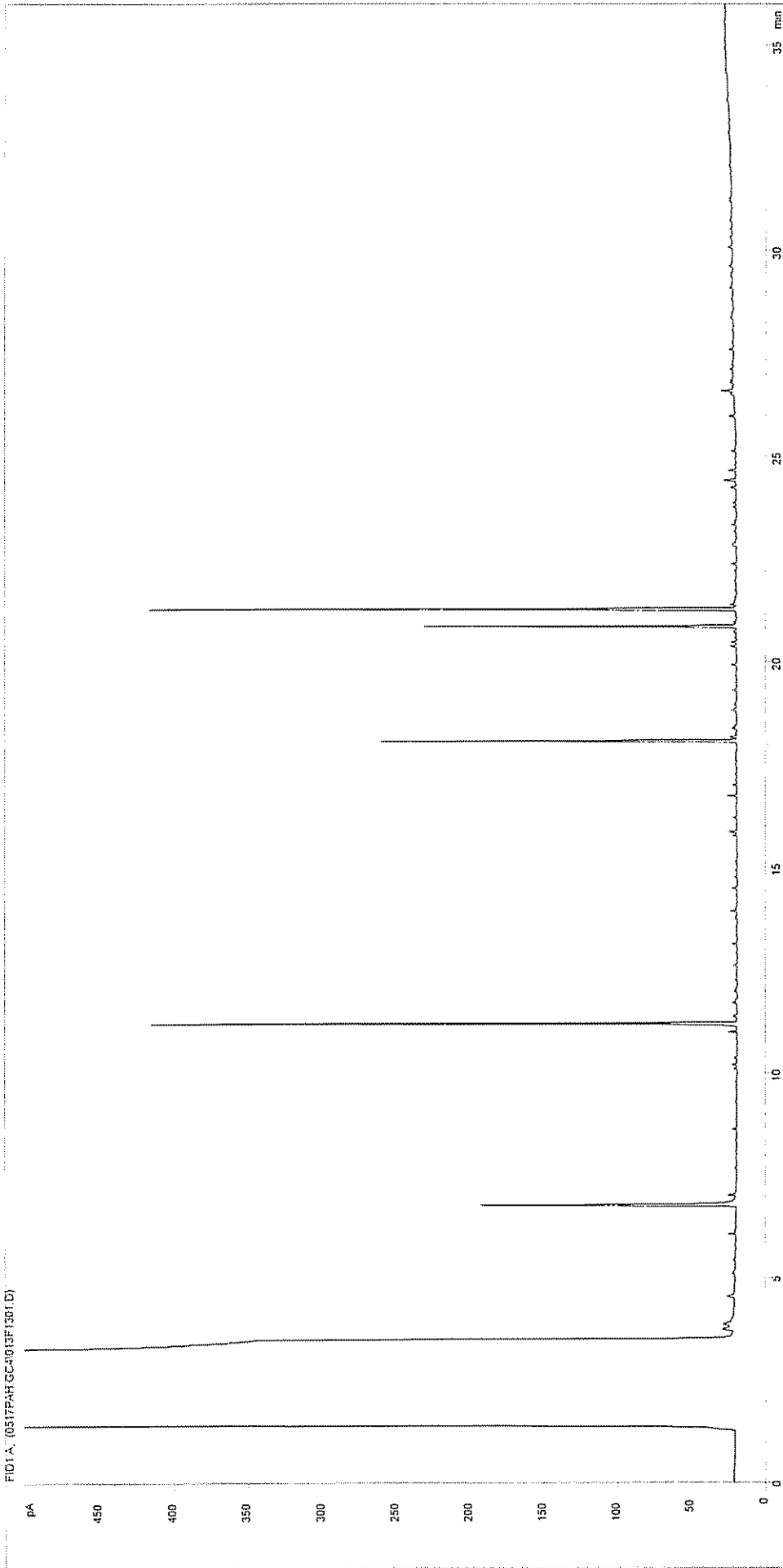
Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:	CL0412182	Job Number:	S04_1895
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	8AB002 1.0
Acquisition Date/Time:	17-May-04		
Datafile:	C:\TES\DATA\0517PAH.GC4\012F1201.D		



Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:	CL0412183	Job Number:	S04_1895
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	8AB002 2.4
Acquisition Date/Time:	18-May-04		
Datafile:	C:\TES\DATA\0517PAH.GC4\013F1301.D		

Interpretation of GC/FID Chromatographic data produced during DRO, PAH or TPH test.

Client :	Enviros	Date of assessment :	20-May-04
Site :	Lackenby Area 8	Assessor :	J McEwan
Report Number :		Test type :	TPH GCFID

Lab ID Number	Client ID	Interpretation
CL0412181	8AB001 2.2	Lean extract, insufficient for ID.
CL0412182	8AB002 1.0	Trace PAHs. Lean extract, insufficient for ID.
CL0412183	8AB002 2.4	Lean extract, insufficient for ID.
CL0410985	8AT001 0.3	UCM in the range nC14-nC37+ Trace of PAHs.
CL0410986	8AT001 1.2	Lean extract, insufficient for ID.
CL0410983	8AT002 0.2	UCM in the range nC14-nC37+ Large presence of PAHs.
CL0410984	8AT002 4.0	UCM in the range nC14-nC37+ Some unidentified fine structure.
CL0411176	8AT003 0.2	UCM in the range nC14-nC37+ Large presence of PAHs. May by coal tar.
CL0411177	8AT003 3.8	Trace of PAHs. Some low level laboratory introduced contamination.


  
 Authorised by : **G.C. Risdon**  
 Associate Director, Environmental Analysis

Interpretation of GC/FID Chromatographic data produced during DRO, PAH or TPH test.

Client :	Enviros	Date of assessment :	20-May-04
Site :	Lackenby Area 8	Assessor :	J McEwan
Report Number :		Test type :	TPH GC/FID

Lab ID Number	Client ID	Interpretation
CL0410989	8AT004 0.2	Mineral Oil style UCM in the range nC18-nC37+, n-Alkane trace including pristane/phytane. Trace of PAHs.
CL0410990	8AT004 1.6	UCM in the range nC14-nC37+, Some unidentified fine structure.
CL0411174	8AT005 0.3	Lean extract, insufficient for ID.
CL0411175	8AT005 3.2	Low level UCM in the range nC14-nC37+. Trace of PAHs.
CL0410987	8AT006 0.3	Mineral Oil style UCM in the range nC18-nC37+, n-Alkane trace including pristane/phytane.
CL0410988	8AT006 1.5	Low level UCM in the range nC14-nC37+, n-Alkane trace including pristane/phytane. Trace of PAHs.

Authorised by :  G.C. Risdon  
Associate Director, Environmental Analysis

# Report Notes

## Soil/Solid analysis specific:

Results expressed as mg/kg unless stated otherwise  
S04 analysis not conducted in accordance with BS1377  
Water Soluble Sulphate on 2:1 water:soil extract  
AR denotes analysis conducted on the As Received sample  
# co-eluted with benzo(b)fluoranthene  
## co-eluted with Indeno(123-cd)pyrene  
BTEX analysis expressed as ug/kg As Received  
Phenol HPLC results expressed as mg/kg As Received

## Water analysis specific:

Results expressed as mg/l unless stated otherwise

## Oil analysis specific:

Results expressed as mg/kg unless stated otherwise  
S G expressed as g/cm<sup>3</sup> @ 15°C

## Filter analysis specific:

Results expressed as mg on filter unless stated otherwise

## VOC analysis specific:

Explanatory notes for data flagging  
U = undetected above reporting limit  
J = concentration at instrument was below lowest calibration standard  
E = concentration at instrument was above top calibration standard  
B = compound was detected in method blank

## Gas (Tedlar bag) analysis specific:

Results expressed as ug/l unless stated otherwise

## Air (Carbon tube) analysis specific:

Results expressed as ug on tube unless stated otherwise

## Asbestos analysis specific:

CH denotes Chrysotile  
CR denotes Crocidolite  
AM denotes Amosite  
NADIS denotes No Asbestos Detected in Sample  
NBFO denotes No Bulk fibres Observed  
T Trace  
L Low (2-15%)  
M Medium (15-50%)  
H High (>50%)

## General notes:

^ this analysis was subcontracted to another laboratory  
\$ Within laboratory tolerances  
\$\$ unable to analyse due to nature of sample  
¥ Results for guidance only, possible interference  
& Blank corrected  
I.S insufficient sample for analysis  
Intf Unable to analyse due to interferences  
N.D Not determined  
N.R Not recorded  
N.Det Not detected  
Req Analysis Requested, see attached sheets for results  
\* denotes this result not UKAS accredited on this sample  
▷ Raised detection limit due to nature of sample

# TEST REPORT SOIL SAMPLE ANALYSIS

## Combined Report TES Report No. Lackenby Area G

Site: Lackenby Area G

Enviros  
Sanderson House  
Station Road  
Horsforth  
Leeds  
LS18 5NT

The 11 samples described in this report were scheduled for analysis by TES Bretby between 28/04/04 and 07/05/04. The analysis was completed by Friday, 11 June 2004.

Tests marked as 'not UKAS accredited' and any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by TES Bretby laboratories.

The following tables are contained in this report:

Table 1 Main Analysis Results  
Tables of TPH Chromatograms (11 Pages)  
Tables of TPH Interpretations (2 Pages)  
Table of Report Notes (1 Page)

On behalf of

TES Bretby : J Hannah  
J Hannah Project Co-ordinator

Date of Issue: 11/06/04

Tests marked 'not UKAS accredited' in this report are not included  
in the UKAS Accreditation Schedule for our laboratory.

TES Bretby accepts no responsibility for the sampling related to the above results

[illegible]

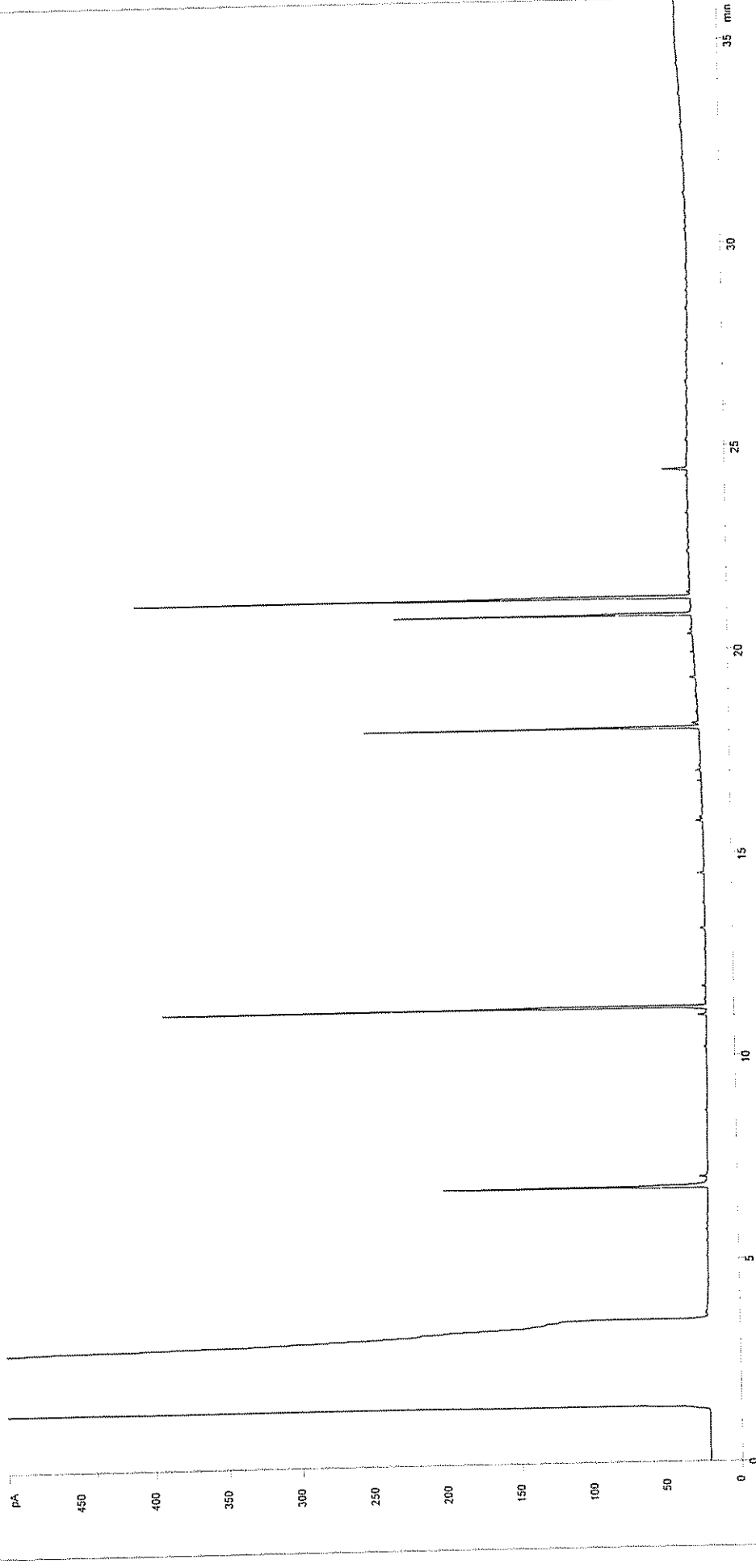
[illegible]

[illegible]



# Petroleum Hydrocarbons (C8 to C37) by GC/FID

FID1 A: (0515PAH.GC4016F1701.D)



Sample ID:

Multiplier:

Dilution:

Acquisition Method:

Acquisition Date/Time:

Datafile:

CL0411178

0.1

1

WMF\_RUNF.M

16-May-04

C:\TES\DATA\0515PAH.GC4016F1701.D

Job Number:

Client:

Site:

Client Sample Ref:

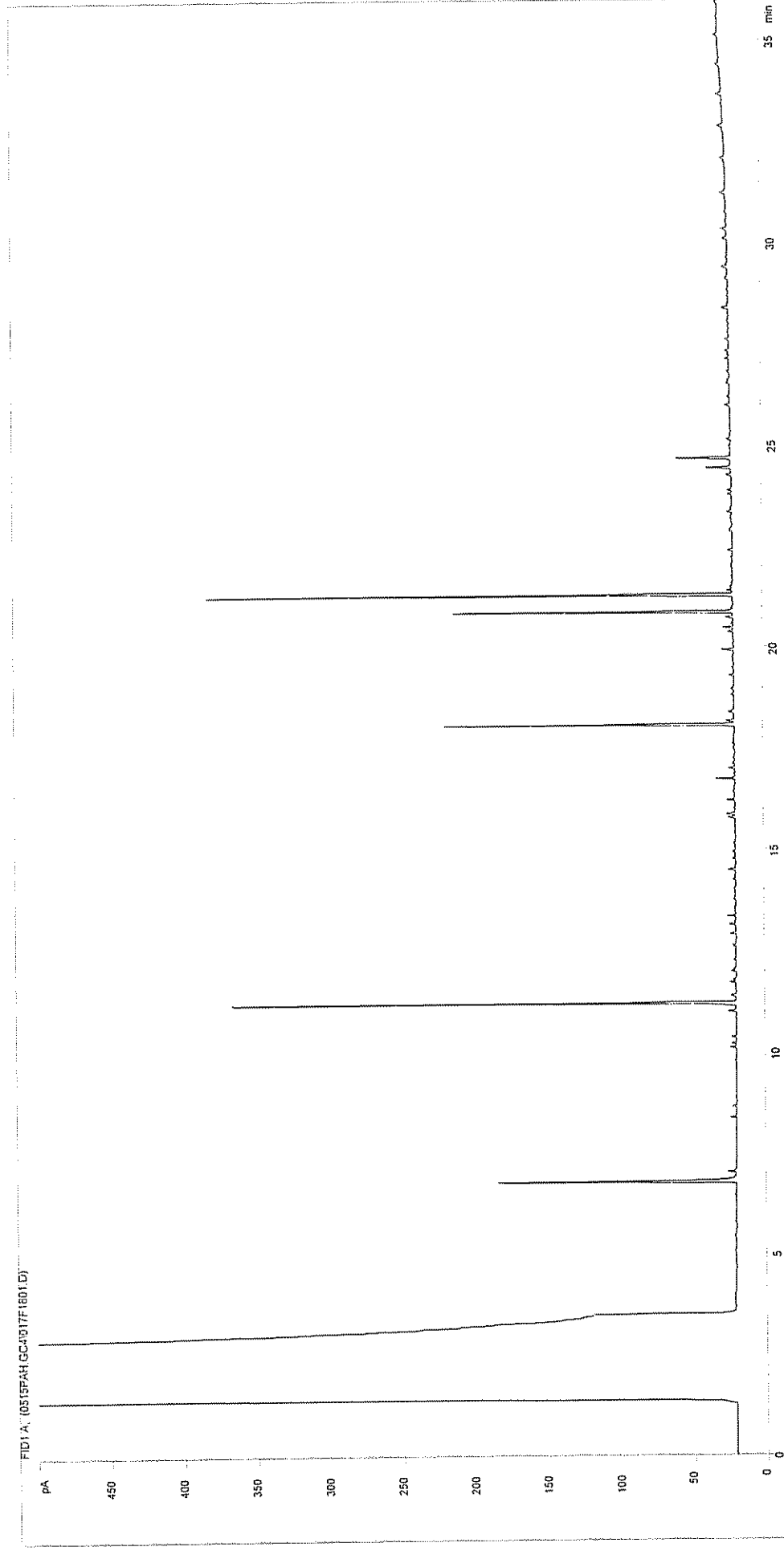
S04\_1747

Enviros

Teeside C00520017A

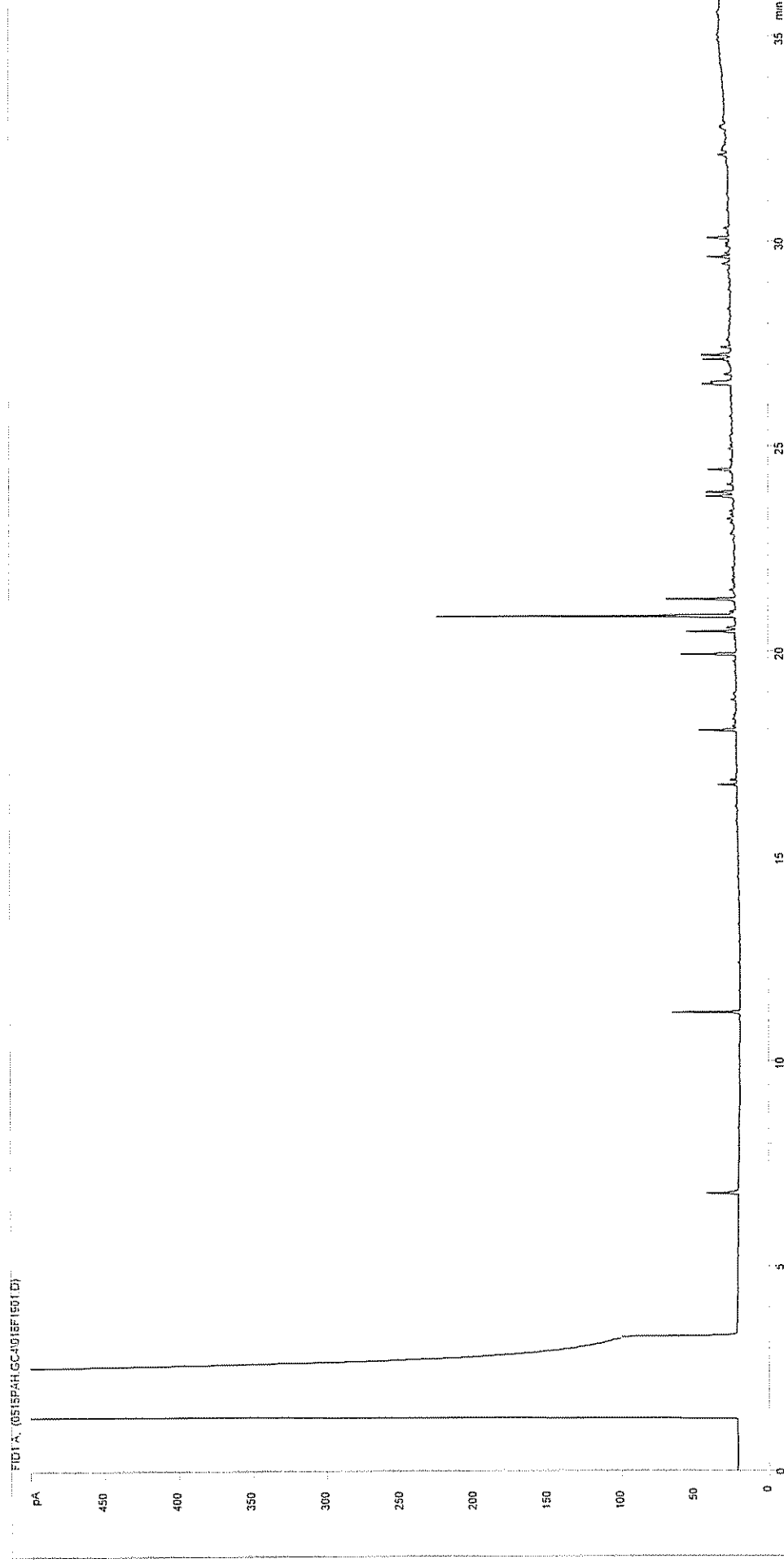
GAT001 1.6

Petroleum Hydrocarbons (C8 to C37) by GC/FID



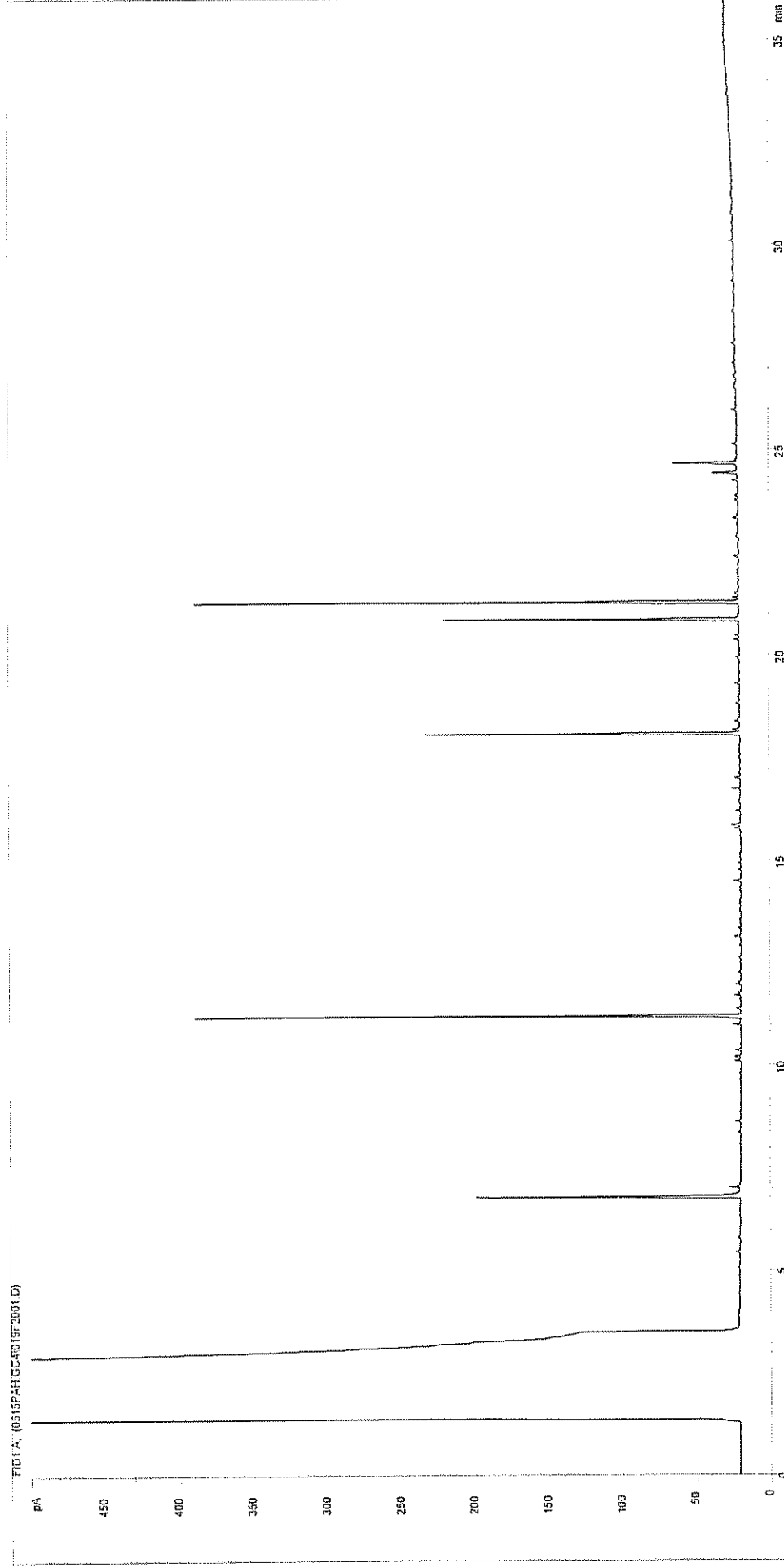
Sample ID:	CL0411179	Job Number:	S04_1747
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	GAT001 3.8
Acquisition Date/Time:	16-May-04		
Datafile:	C:\TES\DATA\0515PAH.GC4\017F1801.D		

# Petroleum Hydrocarbons (C8 to C37) by GC/FID



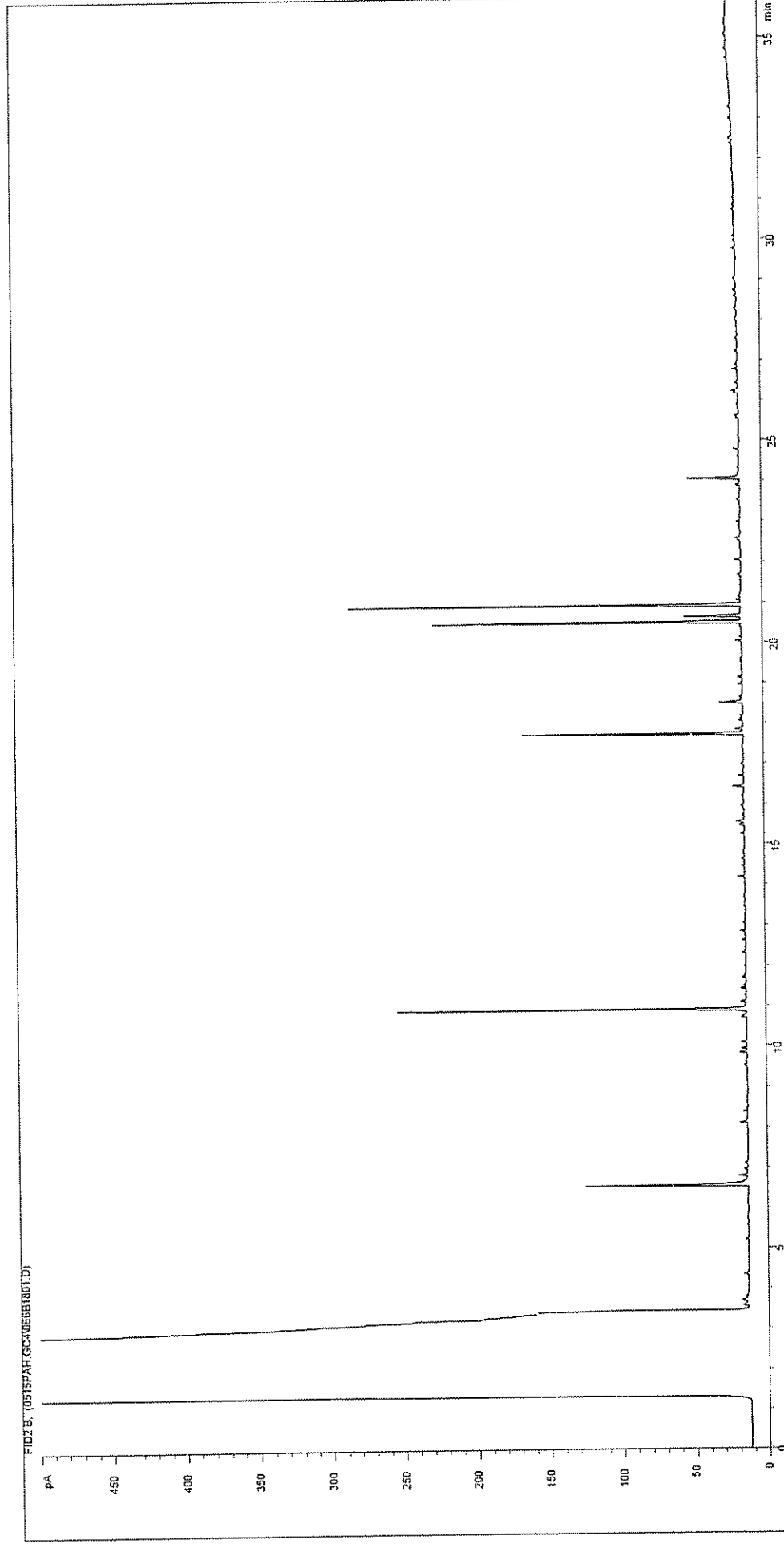
<b>Sample ID:</b>	CL0411180	<b>Job Number:</b>	S04_1747
<b>Multiplier:</b>	0.1	<b>Client:</b>	Enviros
<b>Dilution:</b>	10	<b>Site:</b>	Teeside C00520017A
<b>Acquisition Method:</b>	WMF_RUNF.M	<b>Client Sample Ref:</b>	GAT005 1.0
<b>Acquisition Date/Time:</b>	16-May-04		
<b>Datafile:</b>	C:\TES\DATA\0515PAH.GC4\018F1901.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



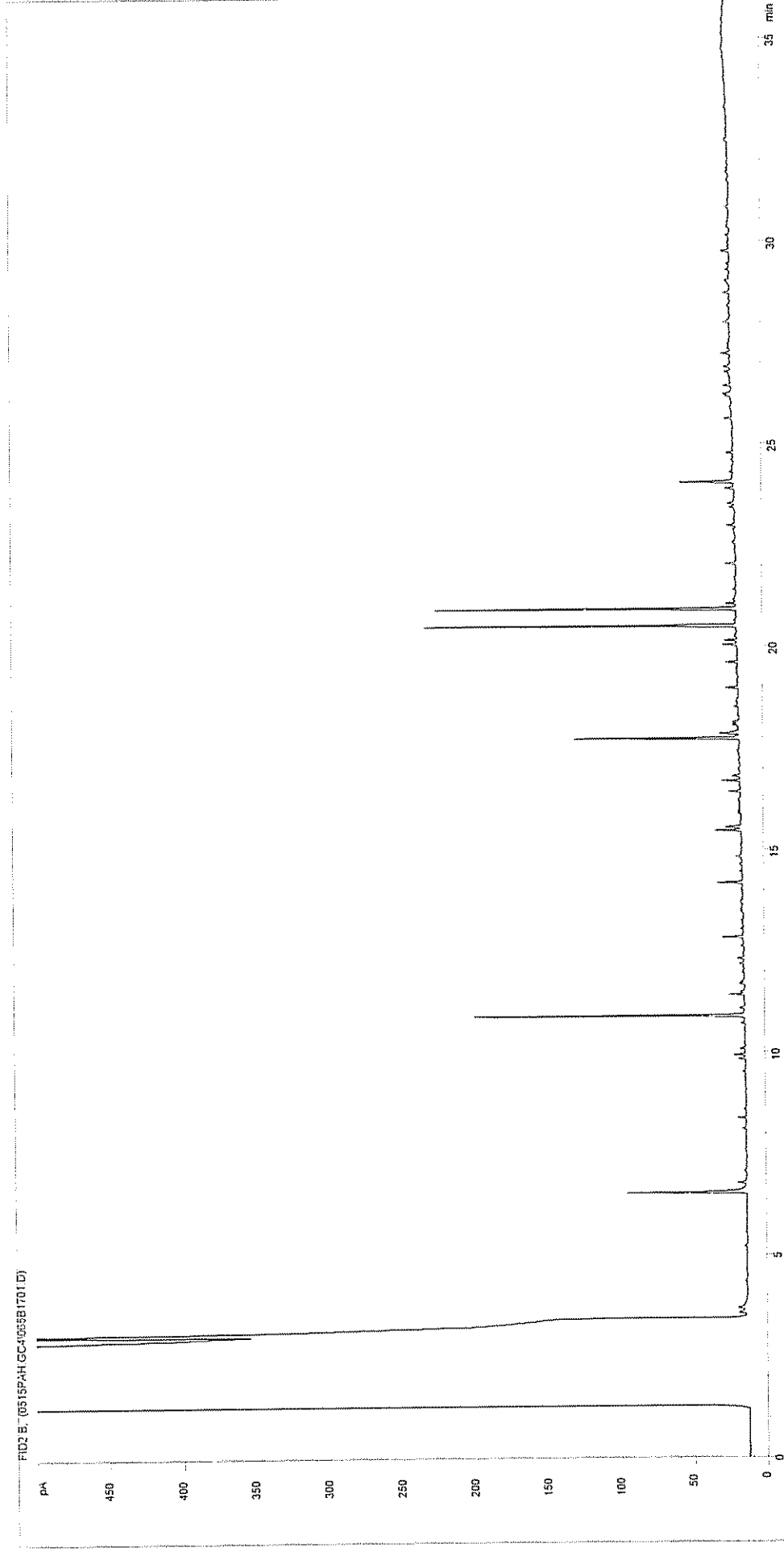
Sample ID:	CL0411181	Job Number:	S04_1747
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	GAT005 4.2
Acquisition Date/Time:	16-May-04		
Datafile:	C:\TES\DATA\0515PAH.GC4\019F2001.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:	CL0411380	Job Number:	S04_1781
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	GAB002 5.0
Acquisition Date/Time:	16-May-04		
Datafile:	C:\TES\DATA\0515PAH.GC\066B1801.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:

Multiplier:

Dilution:

Acquisition Method:

Acquisition Date/Time:

Datafile:

CL0411379

0.1

1

WMF\_RUNF.M

16-May-04

C:\TES\DATA\0515PAH.GC4\065B1701.D

Job Number:

Client:

Site:

Client Sample Ref:

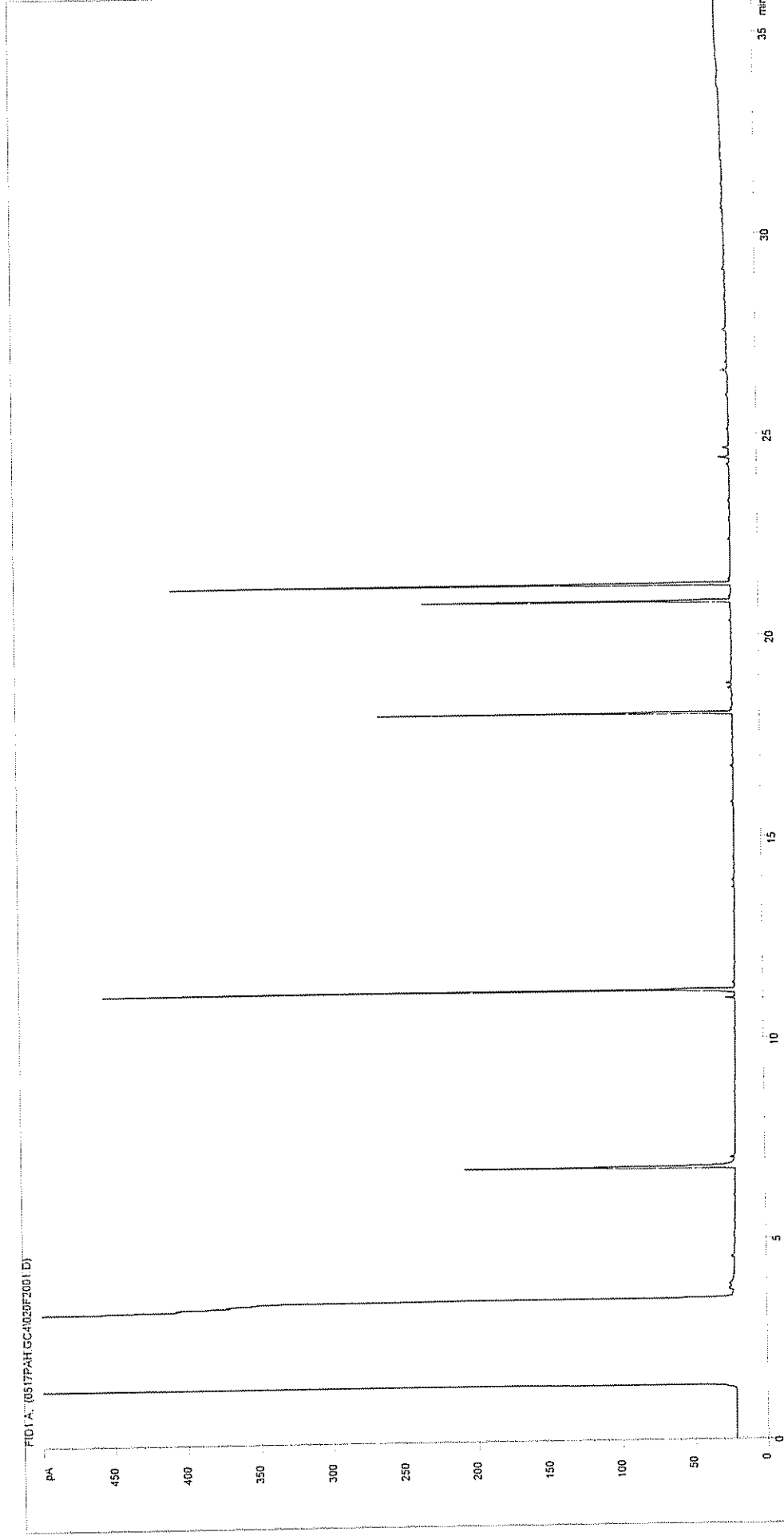
S04\_1781

Enviros

Teeside C00520017A

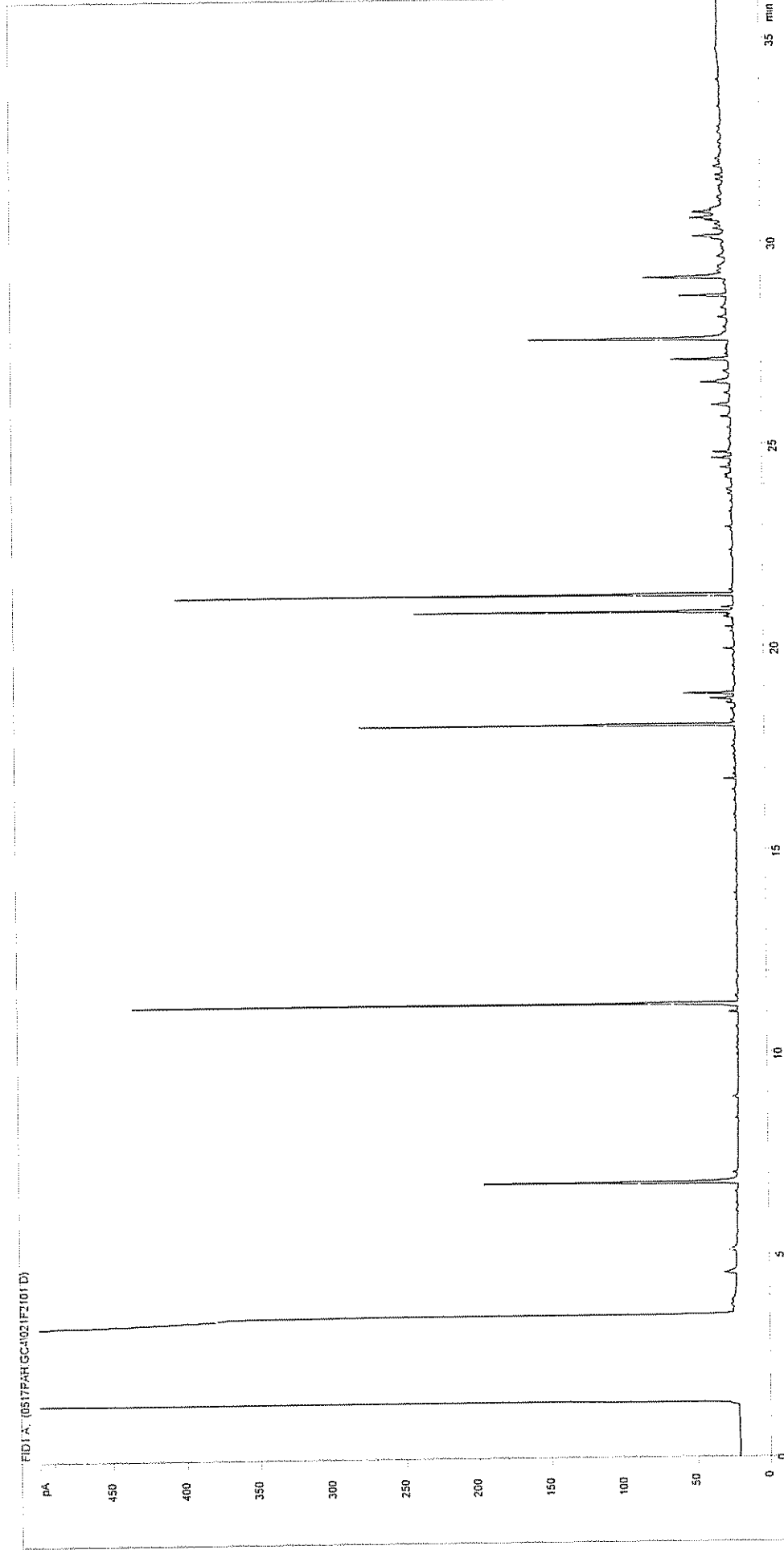
GAB002 1.0

# Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:	CL0411569	Job Number:	S04_1803
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	GAT002 3.8
Acquisition Date/Time:	18-May-04		
Datafile:	C:\TES\DATA\0517PAH.GC4020F2001.D		

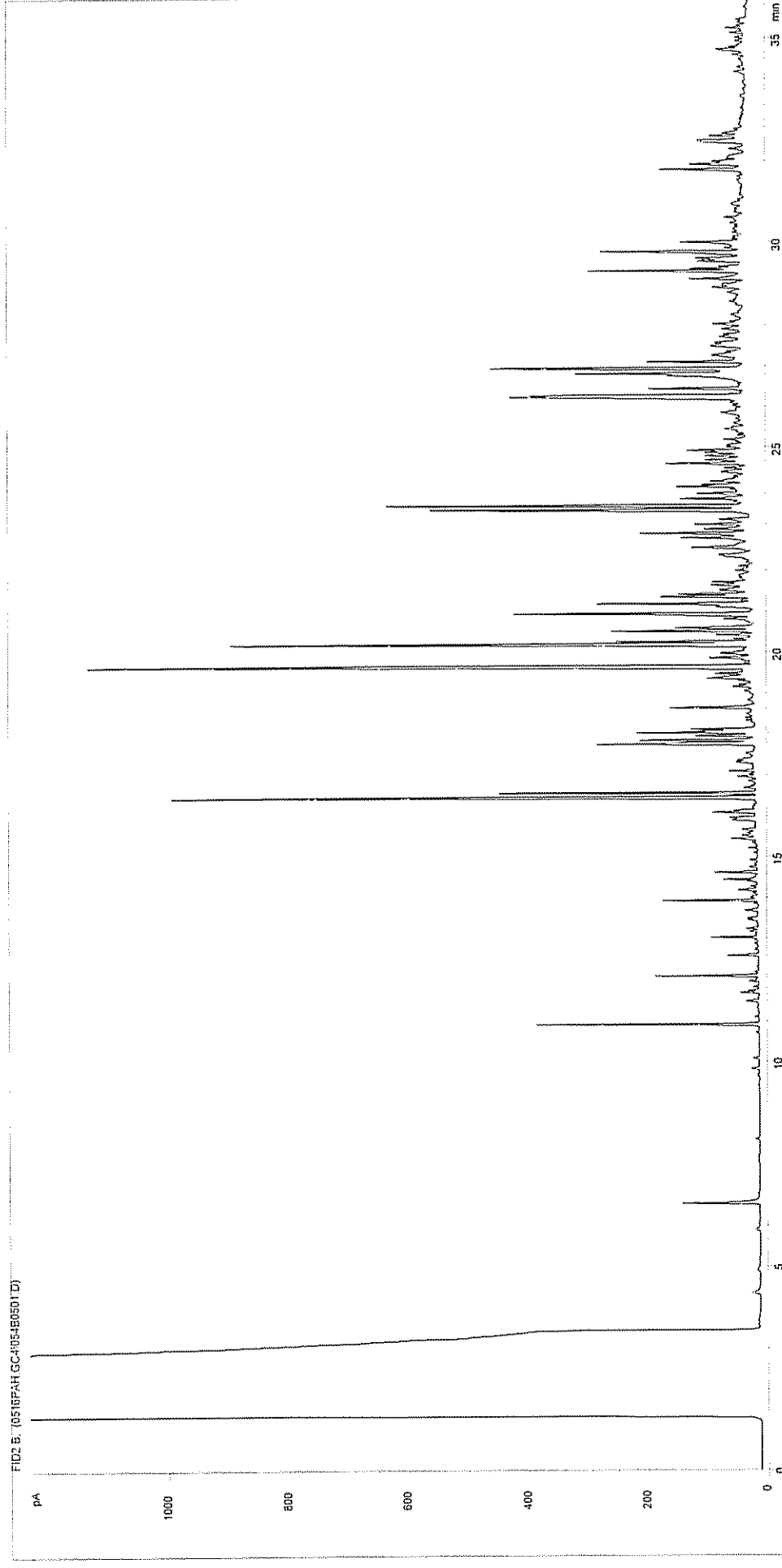
Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:	CL0411570	Job Number:	S04_1803
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	GAT002 2.3
Acquisition Date/Time:	18-May-04		
Datafile:	C:\TES\DATA\0517PAH.GC4\021F2101.D		

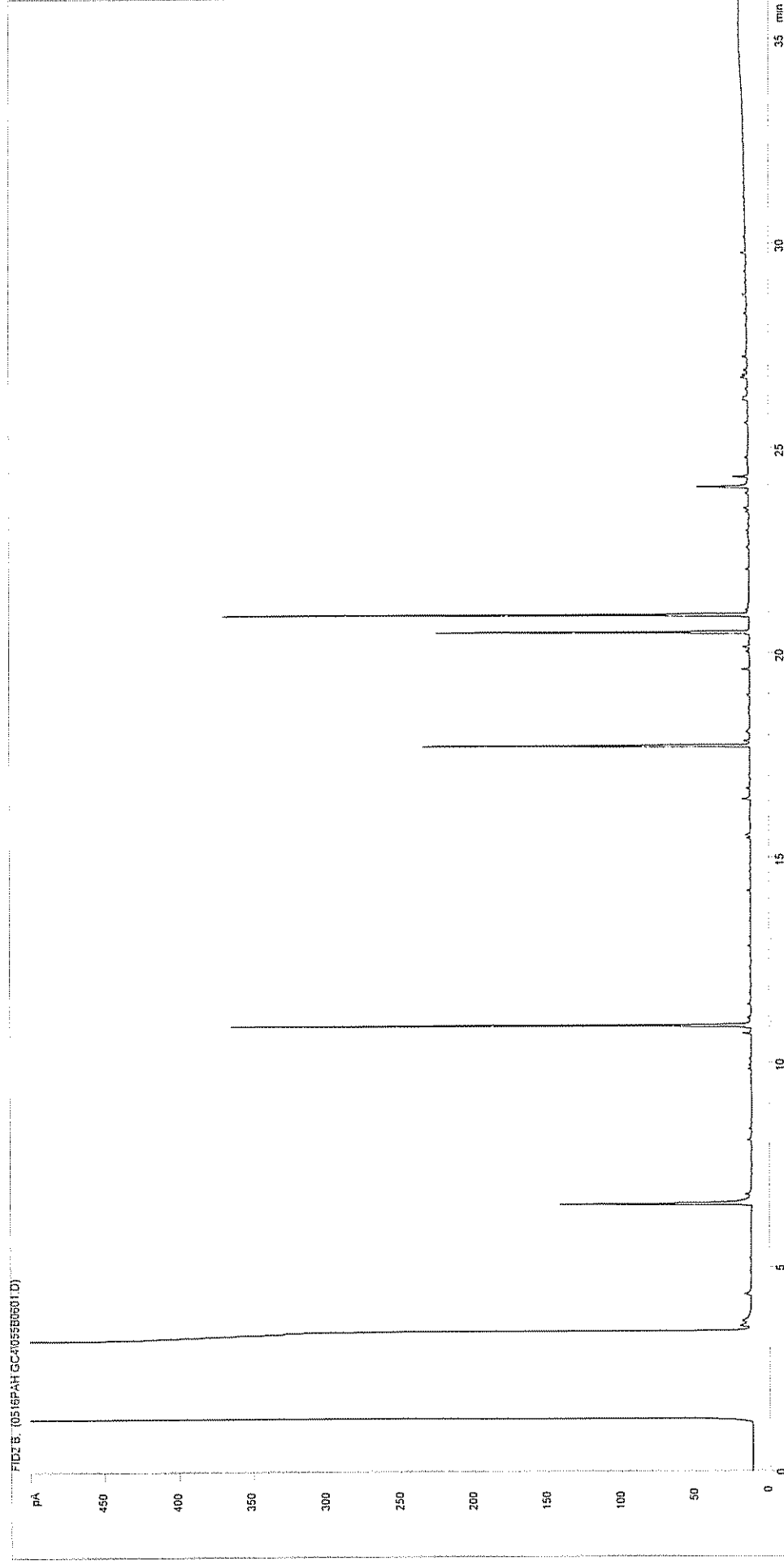


Petroleum Hydrocarbons (C8 to C37) by GC/FID



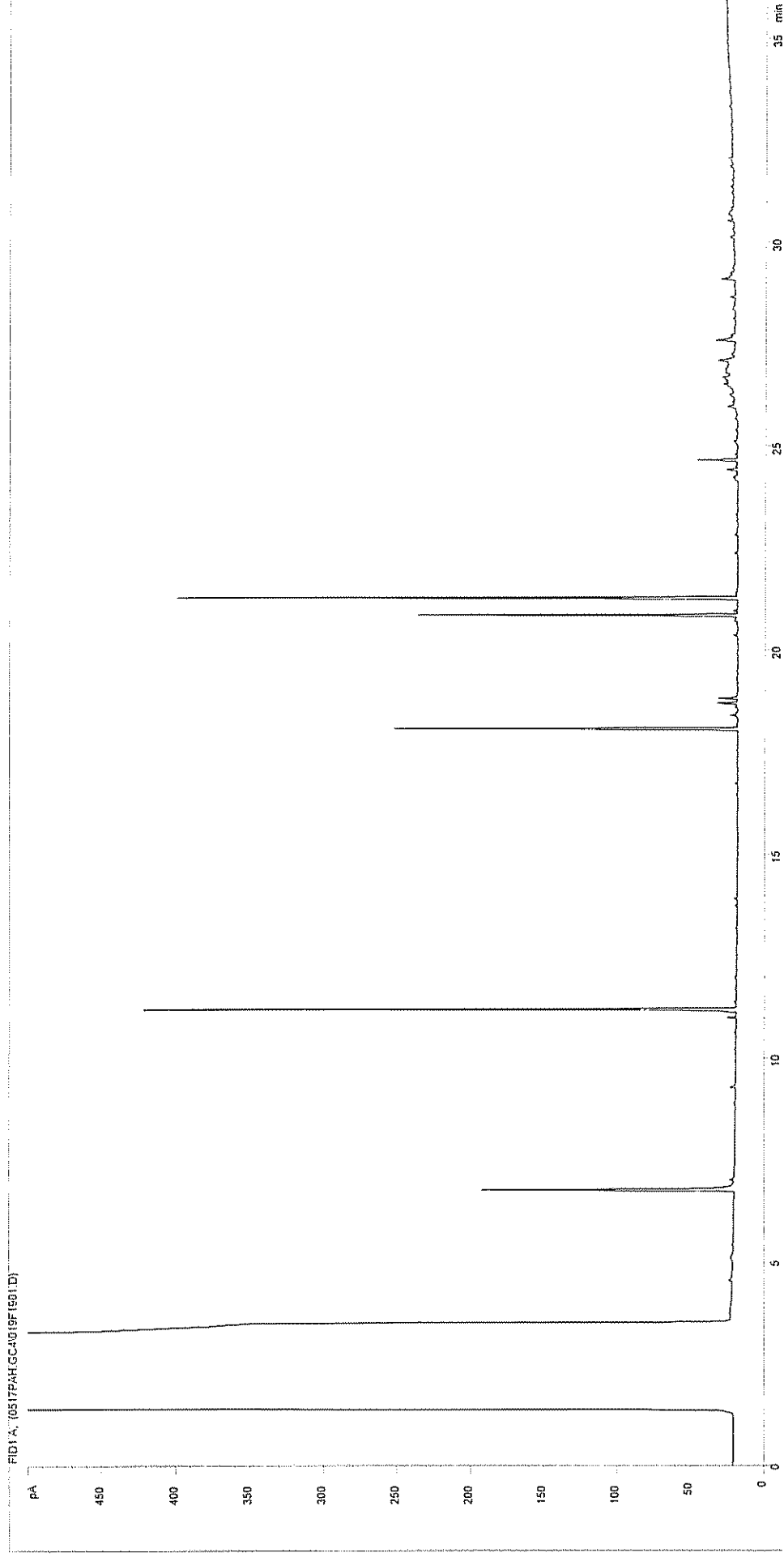
Sample ID:	CL0411571	Job Number:	S04_1803
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	GAT004 0.5
Acquisition Date/Time:	16-May-04		
Datafile:	C:\TES\DATA\0516PAH.GC4\054B0501.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID



Sample ID:	CL0411572	Job Number:	S04_1803
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	GAT004 3.8
Acquisition Date/Time:	16-May-04		
Datafile:	C:\TESIDATA\0516PAH.GC4\055B0601.D		

Petroleum Hydrocarbons (C8 to C37) by GC/FID

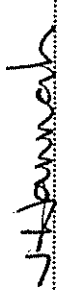


Sample ID:	CL0412187	Job Number:	S04_1898
Multiplier:	0.1	Client:	Enviros
Dilution:	1	Site:	Teeside C00520017A
Acquisition Method:	WMF_RUNF.M	Client Sample Ref:	GAB001 2.0
Acquisition Date/Time:	18-May-04		
Datafile:	C:\TES\DATA\0517PAH.GC4019F1901.D		

Interpretation of GC/FID Chromatographic data produced during DRO, PAH or TPH test.

Client :	Enviros	Date of assessment :	20-May-04
Site :	Lackenby Area G	Assessor :	J McEwan
Report Number :		Test type :	TPH GCFID

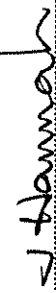
Lab ID Number	Client ID	Interpretation
CL0412187	GAB001 2.0	Lean extract, insufficient for ID.
CL0411380	GAB002 1.0	Low level UCM in the range nC14-nC37+, n-Alkane trace including pristane/phytane. Trace of PAHs.
CL0411379	GAB002 5.0	Low level UCM in the range nC14-nC37+, n-Alkane trace including pristane/phytane. Trace of PAHs.
CL0411178	GAT001 1.6	UCM in the range nC14-nC37+, n-Alkane trace including pristane/phytane.
CL0411179	GAT001 3.8	Low level UCM in the range nC14-nC37+, Some unidentified fine structure. n-Alkane trace including pristane/phytane.
CL0411570	GAT002 2.3	Lean extract, insufficient for ID.
CL0411569	GAT002 3.8	Lean extract, insufficient for ID.

pp Authorised by :  G.C. Risdon  
 Associate Director, Environmental Analysis

Interpretation of GC/FID Chromatographic data produced during DRO, PAH or TPH test.

Client :	Enviros	Date of assessment :	20-May-04
Site :	Lackenby Area G	Assessor :	J McEwan
Report Number :		Test type :	TPH GCFID

Lab ID Number	Client ID	Interpretation
CL0411571	GAT004 0.5	Large presence of PAHs.
CL0411572	GAT004 3.8	Lean extract, insufficient for ID.
CL0411180	GAT005 1.0	UCM in the range nC14-nC37+. Large presence of PAHs.
CL0411181	GAT005 4.2	Low level UCM in the range nC14-nC37+. Some unidentified fine structure. n-Alkane trace including pristane/phytane.

Authorised by :  G.C. Risdon  
Associate Director, Environmental Analysis

# Report Notes

## **Soil/Solid analysis specific:**

Results expressed as mg/kg unless stated otherwise  
S04 analysis not conducted in accordance with BS1377  
Water Soluble Sulphate on 2:1 water:soil extract  
AR denotes analysis conducted on the As Received sample  
# co-eluted with benzo(b)fluoranthene  
## co-eluted with Indeno(123-cd)pyrene  
BTEX analysis expressed as ug/kg As Received  
Phenol HPLC results expressed as mg/kg As Received

## **Water analysis specific:**

Results expressed as mg/l unless stated otherwise

## **Oil analysis specific:**

Results expressed as mg/kg unless stated otherwise  
S G expressed as g/cm<sup>3</sup> @ 15°C

## **Filter analysis specific:**

Results expressed as mg on filter unless stated otherwise

## **VOC analysis specific:**

Explanatory notes for data flagging  
U = undetected above reporting limit  
J = concentration at instrument was below lowest calibration standard  
E = concentration at instrument was above top calibration standard  
B = compound was detected in method blank

## **Gas (Tedlar bag) analysis specific:**

Results expressed as ug/l unless stated otherwise

## **Air (Carbon tube) analysis specific:**

Results expressed as ug on tube unless stated otherwise

## **Asbestos analysis specific:**

CH denotes Chrysotile  
CR denotes Crocidolite  
AM denotes Amosite  
NADIS denotes No Asbestos Detected in Sample  
NBFO denotes No Bulk fibres Observed  
T Trace  
L Low (2-15%)  
M Medium (15-50%)  
H High (>50%)

## **General notes:**

^ this analysis was subcontracted to another laboratory  
\$ Within laboratory tolerances  
\$\$ unable to analyse due to nature of sample  
¥ Results for guidance only, possible interference  
& Blank corrected  
I.S insufficient sample for analysis  
Intf Unable to analyse due to interferences  
N.D Not determined  
N.R Not recorded  
N.Det Not detected  
Req Analysis Requested, see attached sheets for results  
\* denotes this result not UKAS accredited on this sample  
▷ Raised detection limit due to nature of sample