SF 4.9

DATA PACKAGE

HYDROCARBON ANALYSIS

9-12-95

METHOD - WTPH-Gas

CLIENT: ALTA Geosciences, Inc.
PROJECT: Spokane Junkyard and Associated Properties

Case Number: B509239

Prepared by:

NORTH CREEK ANALYTICAL
18939 120th Ave. N.E. Suite 101
Bothell, WA 98011

SF 4.9

USEPA SF
1029797

40987

000001

NORTH CREEK ANALYTICAL

WTPH-G ANALYSIS CASE NARRATIVE

B509239

CLIENT: ALTA Geosciences, Inc.
PROJECT: Spokane Junkyard and Associated Properties

1.0 DESCRIPTION OF CASE

Five water samples were analyzed for Total Petroleum Hydrocarbons as Gasoline by DOE method WTPH-G.

2.0 Sample Receipt

No anomalies were associated with the receipt of the samples in this work order.

3.0 COMMENTS ON ANALYSIS

The samples were analyzed within method recommended holding times. No anomalies were associated with the preparation and analysis of the samples in this work order. Site specific QC was not performed on a sample in this work order. Batch QC however, was performed and are included herein.

4.0 QC

All QC results were within acceptable limits.

" I certify that this data package is in compliance with the methods listed above and guidelines in 18 AAC 78 both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature."

_____

Dennis D. Wells, QA Director

" I certify that this data package is in compliance with the methods listed above and guidelines in 18 AAC 78 both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature."

_____

Dennis D. Wells, QA Director

NORTH CREEK ANALYTICAL
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East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: ALTA Geosciences
ADDRESS: 22833 Bothell -- Everett Hwy Ste 168
Bothell, WA 98021-5365
PHONE: 206-485-1053 FAX: 206-486-7651

REPORT TO: Alex Tolu
ATTENTION:
BILLING TO:
P.O. NUMBER: Same as above
NCA QUOTE #:

PROJECT NAME: Spokane Junk Yard
PROJECT NUMBER: E95-10140
SAMPLED BY: Tom Cammarata

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: 10 ✓ | 5 | 3 | 2 | 1
Fuels & Hydrocarbon Analyses: 5 | 3 | 2 | 1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

Analysis Request:

NCA SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	TAL METAL	PCB 8080	8260	8270	8015 m-gas	8015 m- Diesel water				MATRIX (W, S, O)	# OF CONTAINERS	COMMENTS & PRESERVATIVES USED
B509239-01	1. SJ950912-MW03-01	9/12 1503	X	X	X	X	X	X				W	12	HCL / HNO3
↓	2. SJ950912-MW03-01 MS/MSD	9/12 1503	X	X	X	X	X	X				W	11	"
B509239-02	3. SJ950912-MW04-02	9/12 1602	X	X	X	X	X	X				W	12	"
B509239-03	4. SJ950912-RS-03	9/12 1625	X	X	X	X	X	X				W	12	"
-04	5. Trip blank	9/12			X							W	~~10~~ 11	HCL
	6.												Recvd 11 vons	
	7.													
	8.													
	9.													
	10.													

RELINQUISHED BY:		DATE: 9/12/95	RECEIVED BY: Camille Kane			DATE: 9/12/95	
PRINT NAME: Tom Cammarata	FIRM: ALTA.	TIME: 1715.	PRINT NAME: Camilla Kane	FIRM: NCA		TIME: 1715	
RELINQUISHED BY: R. Bouse		DATE: 9/13/95	RECEIVED BY: Dana Heinz			DATE: 9/14/95	
PRINT NAME: R. Bouse	FIRM: NCA-S	TIME: 11:00 Am	PRINT NAME: DANA HEINZ	FIRM: NCA-B		TIME: 1300	

ADDITIONAL REMARKS: QC Level 4 per contract.

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NORTH CREEK ANALYTICAL
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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: ALTA Geoscience, Inc.
ADDRESS: 22833 Bothell-Everett Highway Ste 1168, Bothell, WA 98021
PHONE: 206-485-1053 FAX: 206-485-7651

REPORT TO: ALEX TULA
ATTENTION:
BILLING TO:
P.O. NUMBER: SAME AS above
NCA QUOTE #:

PROJECT NAME: Spokane Junk yard.
PROJECT NUMBER: E95-10140
SAMPLED BY: Cooper/CAMMARATA.

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: 10 ✓ | 5 | 3 | 2 | 1
Fuels & Hydrocarbon Analyses: 5 | 3 | 2 | 1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

NCA SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	TOTAL TAL METAL	PCBs 8080	8260	8270	8015M-GAS	8015M-Diesel			MATRIX (W, S, O)	# OF CONTAINERS	COMMENTS & PRESERVATIVES USED
✓ B509239-05	1. SD950913-MW01-04	9/13 0933	X	X	X	X	X	X			W	12	HCL - VOAs, HNO3 - metal
✓ -06	2. SD950913-MW02-05	9/13 1245	X	X	X	X	X	X			W	12	"
~~07~~	3. TRIPblank	9/13			X						W	~~10~~ ~~4~~ only Recvd 1 VOA not 4 DA	#
	4.												
	5.												
	6.												
	7.												
	8.												
	9.												
	10.												

RELINQUISHED BY: [signature] DATE: 9/13/95
PRINT NAME: CAMMARATA FIRM: ALTA. TIME: ~~15~~ 1405 hrs
RECEIVED BY: Camille Kane DATE: 9/13/95
PRINT NAME: Camille Kane FIRM: NCA TIME: 1400

RELINQUISHED BY: C P Kane DATE: 9/13/95
PRINT NAME: C P Kane FIRM: NCA TIME: 1530
RECEIVED BY: Dana Herz DATE: 9/14/95
PRINT NAME: DANA HERTZ FIRM: NCA-B TIME: 1300

ADDITIONAL REMARKS:
QC Level 4 per Contract.

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SAMPLE RESULTS

NORTH CREEK ANALYTICAL

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East 11115 Montgomery, Suite B • Spokane, WA 99206-4776 (509) 924-9200 • FAX 924-9290
9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644-2202

Alta Geosciences	Client Project ID:	Spokane Junkyard & Associated Properties	Sampled: Sep 12, 1995
22833 Bothell-Everett Hwy., #1168	Sample Matrix:	Water	Received: Sep 14, 1995
Bothell, WA 98021	Analysis Method:	WTPH-G	Analyzed: Sep 22-23, 1995
Attention: Alex Tula	First Sample #:	B509239-01	Reported: Oct 4, 1995

TOTAL PETROLEUM HYDROCARBONS-GASOLINE RANGE

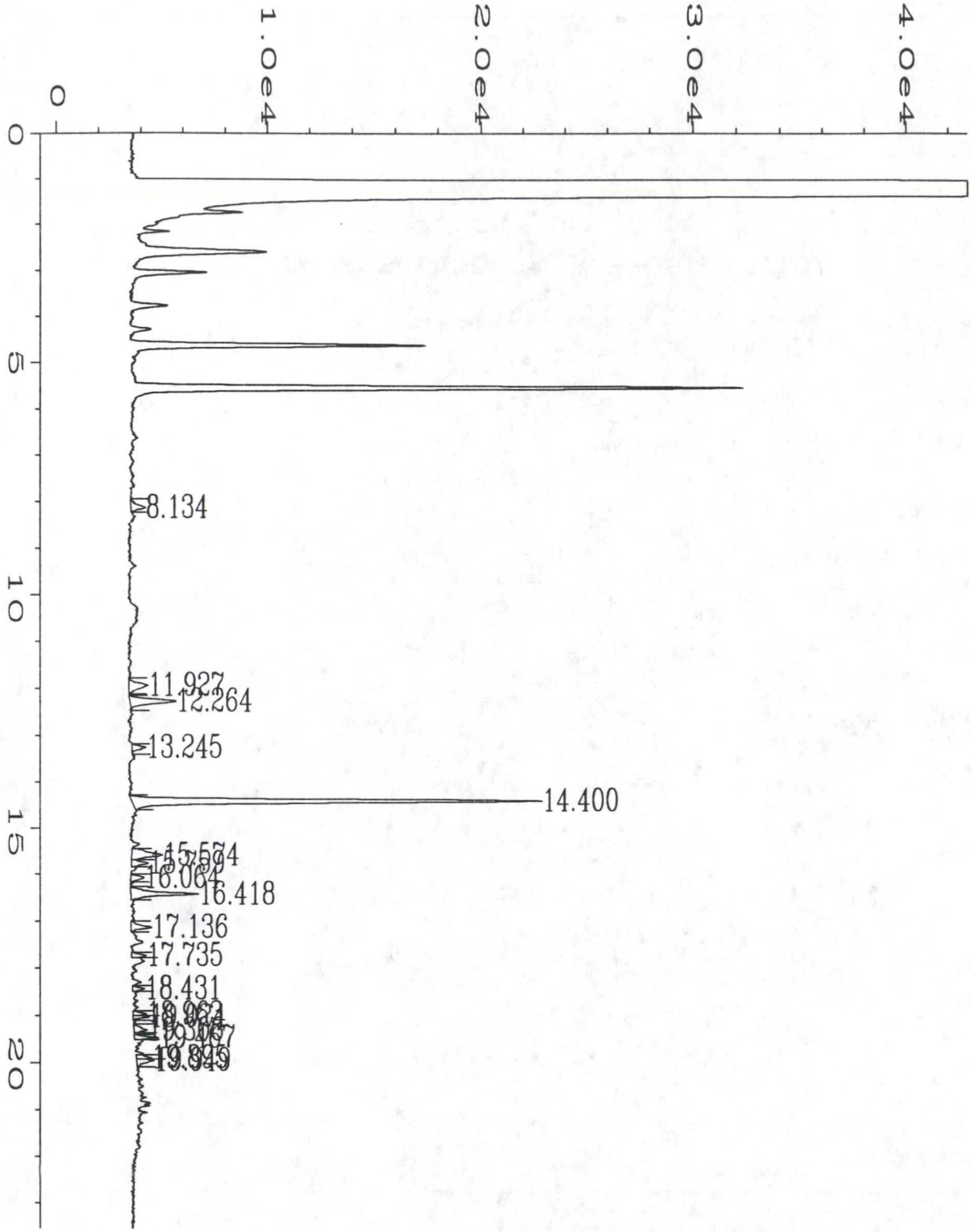
Sample Number	Sample Description	Sample Result µg/L (ppb)	Surrogate Recovery %
B509239-01	SJ950912-MW03-01	N.D.	111
B509239-02	SJ950912-MW04-02	N.D.	103
B509239-03	SJ950912-RS-03	N.D.	101
B509239-05	SJ950913-MW01-04 9/13/95	N.D.	109
B509239-06	SJ950913-MW02-05 9/13/95	N.D.	112
BLK092295	Method Blank	N.D.	92

Reporting Limit: **50**

4-Bromofluorobenzene surrogate recovery control limits are 50 - 150 %.
Volatile Total Petroleum Hydrocarbons are quantitated as Gasoline Range Organics (toluene - dodecane).
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Sally J. Hanley
Project Manager



Data File Name	: C:\HPCHEM\4\DATA\092295\038F0801.D		
Operator	:	Page Number	: 1
Instrument	: GC#4	Vial Number	: 38
Sample Name	: b509345-01 r1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 8
Acquired on	: 22 Sep 95 11:30 PM	Instrument Method:	WA-WATER.MTH
Report Created on:	27 Sep 95 01:16 PM	Analysis Method	: WA-WATER.MTH

Height Percent Report

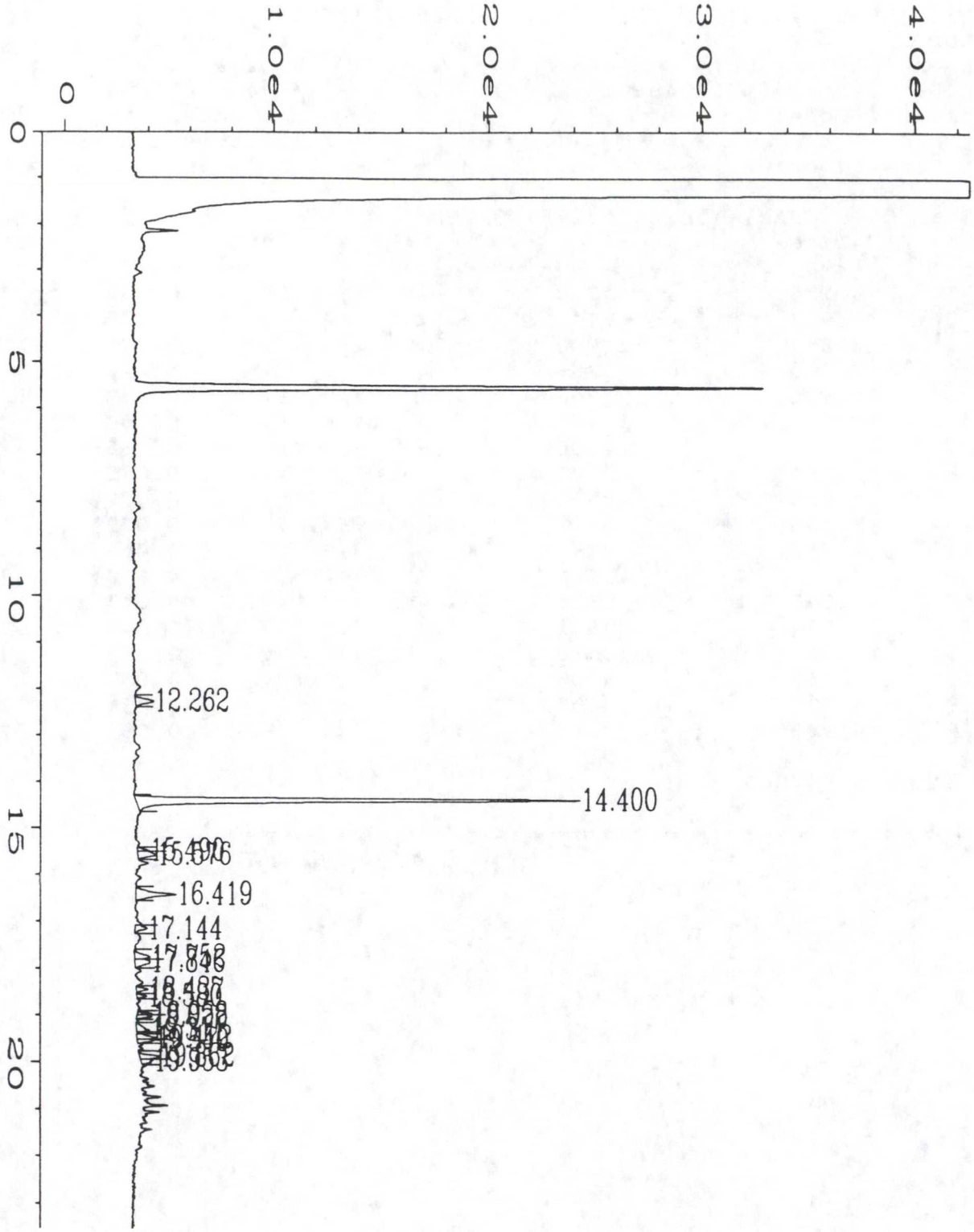
Data File Name : C:\HPCHEM\4\DATA\092295\038F0801.D
Operator :
Instrument : GC#4
Sample Name : b509345-01 r1
Run Time Bar Code:
Acquired on : 22 Sep 95 11:30 PM
Report Created on: 27 Sep 95 01:16 PM

Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 8
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\092295\038F0801.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	8.134	4868	714	VV	0.091	1.9286
2	11.927	7442	912	PV	0.105	2.4631
3	12.264	14940	2185	PV	0.096	5.8985
4	13.245	3358	663	BV	0.070	1.7893
5	14.400	103868	19310	PV	0.082	52.1254
6	15.574	11473	1456	VV	0.100	3.9302
7	15.759	4106	803	VV	0.066	2.1674
8	16.064	3407	622	VV	0.075	1.6783
9	16.418	18546	3213	PV	0.082	8.6740
10	17.136	5347	983	VV	0.072	2.6538
11	17.735	2867	710	VV	0.053	1.9154
12	18.431	2396	592	VV	0.058	1.5981
13	18.963	2300	677	VV	0.045	1.8272
14	19.024	2601	803	VV	0.047	2.1671
15	19.306	3576	640	VV	0.072	1.7285
16	19.467	4005	1144	VV	0.053	3.0869
17	19.895	2857	760	VV	0.054	2.0528
18	19.949	3865	858	VV	0.061	2.3155

Total height = 37046



Data File Name	: C:\HPCHEM\4\DATA\092295\040F0801.D		
Operator	:	Page Number	: 1
Instrument	: GC#4	Vial Number	: 40
Sample Name	: b509239-01 r1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 8
Acquired on	: 23 Sep 95 00:31 AM	Instrument Method:	WA-WATER.MTH
Report Created on:	23 Sep 95 00:54 AM	Analysis Method	: WA-WATER.MTH
Sample Info	: 5 ml		

Height Percent Report

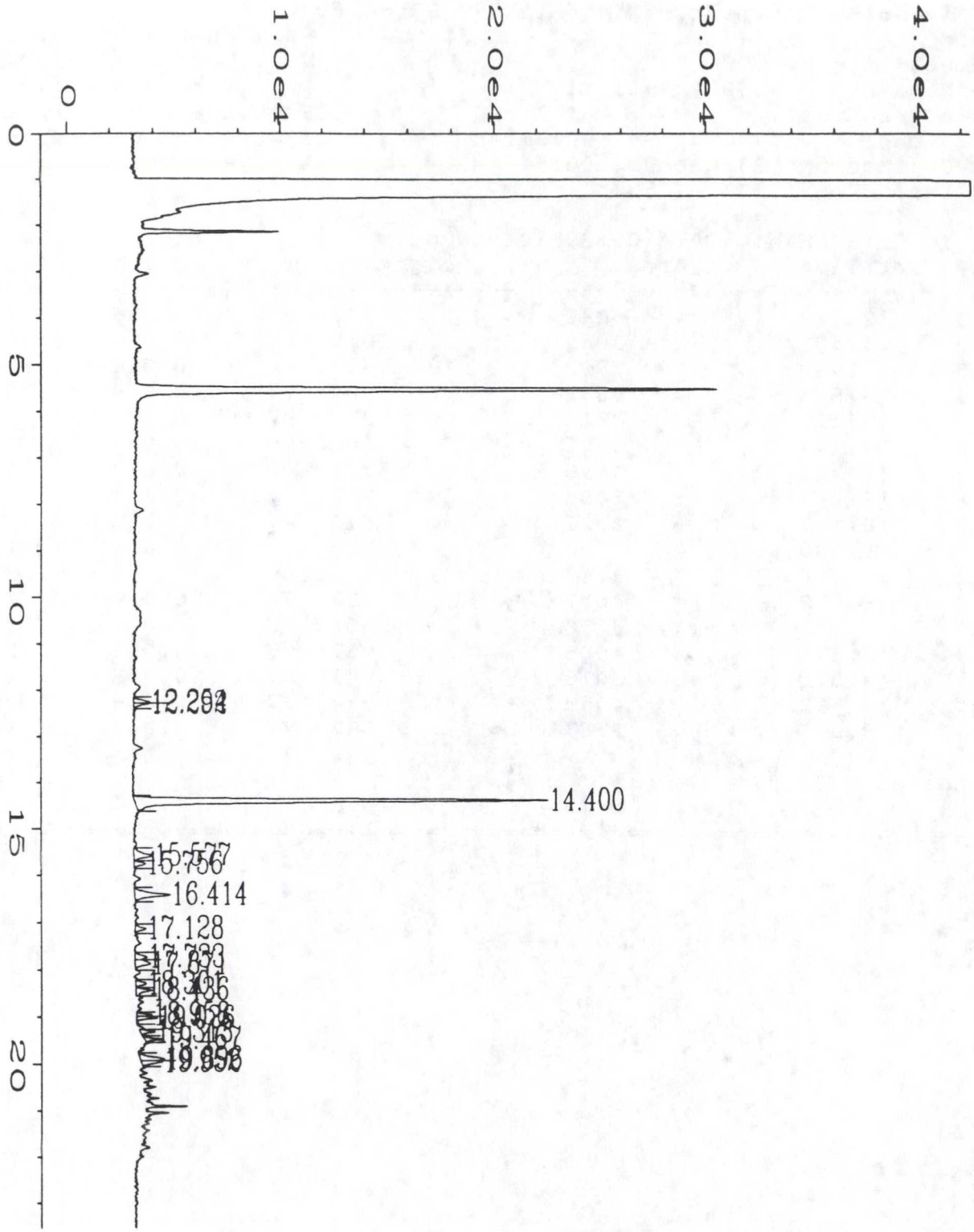
Data File Name : C:\HPCHEM\4\DATA\092295\040F0801.D
Operator :
Instrument : GC#4
Sample Name : b509239-01 r1
Run Time Bar Code:
Acquired on : 23 Sep 95 00:31 AM
Report Created on: 23 Sep 95 00:54 AM
Sample Info : 5 ml

Page Number : 1
Vial Number : 40
Injection Number : 1
Sequence Line : 8
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\092295\040F0801.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	12.262	6240	896	PV	0.086	2.6203
2	14.400	113065	21015	PV	0.084	61.4352
3	15.490	1902	612	PV	0.044	1.7878
4	15.576	5692	907	VV	0.079	2.6520
5	16.419	12815	1976	BV	0.085	5.7767
6	17.144	3351	604	VV	0.079	1.7667
7	17.752	4696	775	PV	0.077	2.2650
8	17.846	5465	735	VV	0.113	2.1494
9	18.437	2527	612	PV	0.056	1.7877
10	18.580	1690	512	VV	0.044	1.4953
11	18.958	2217	763	BV	0.050	2.2293
12	19.022	2637	783	VV	0.049	2.2894
13	19.311	3758	662	PV	0.077	1.9342
14	19.472	4005	957	VV	0.057	2.7968
15	19.540	3018	807	VV	0.055	2.3588
16	19.862	4959	996	PV	0.066	2.9115
17	19.953	2763	597	VV	0.066	1.7439

Total height = 34207



Data File Name	: C:\HPCHEM\4\DATA\092295\042F0801.D		
Operator	:	Page Number	: 1
Instrument	: GC#4	Vial Number	: 42
Sample Name	: b509239-02 r1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 8
Acquired on	: 23 Sep 95 01:31 AM	Instrument Method:	WA-WATER.MTH
Report Created on:	23 Sep 95 01:55 AM	Analysis Method	: WA-WATER.MTH
Sample Info	: 5 ml		

Height Percent Report

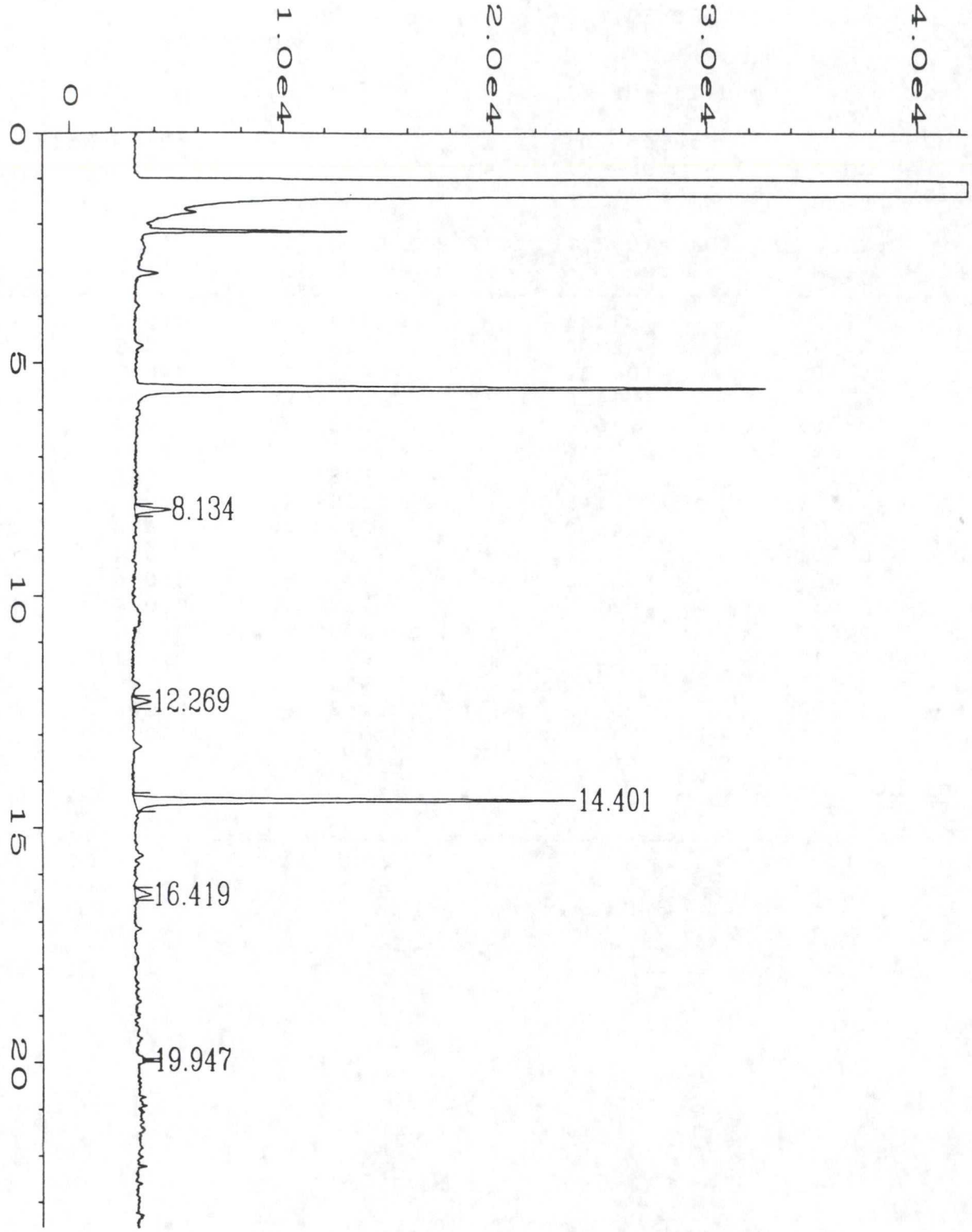
Data File Name : C:\HPCHEM\4\DATA\092295\042F0801.D
Operator :
Instrument : GC#4
Sample Name : b509239-02 r1
Run Time Bar Code:
Acquired on : 23 Sep 95 01:31 AM
Report Created on: 23 Sep 95 01:55 AM
Sample Info : 5 ml

Page Number : 1
Vial Number : 42
Injection Number : 1
Sequence Line : 8
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\092295\042F0801.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	12.254	3134	794	PV	0.053	2.4281
2	12.292	2500	755	VV	0.055	2.3071
3	14.400	104282	19411	PV	0.082	59.3529
4	15.577	6439	919	VV	0.092	2.8113
5	15.756	2691	545	VV	0.069	1.6662
6	16.414	10715	1672	PV	0.089	5.1110
7	17.128	2529	538	VV	0.060	1.6446
8	17.733	3143	589	PV	0.072	1.7996
9	17.871	4800	717	VV	0.086	2.1920
10	18.301	2548	507	VV	0.074	1.5494
11	18.436	3642	757	VV	0.066	2.3153
12	18.958	2179	728	VV	0.044	2.2251
13	19.026	3310	989	VV	0.050	3.0247
14	19.313	2585	699	VV	0.051	2.1381
15	19.467	2750	914	PV	0.045	2.7935
16	19.896	5772	1158	PV	0.066	3.5406
17	19.952	3759	1014	VV	0.050	3.1006

Total height = 32705



Data File Name	: C:\HPCHEM\4\DATA\092295\043F0801.D		
Operator	:	Page Number	: 1
Instrument	: GC#4	Vial Number	: 43
Sample Name	: b509239-03 r1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 8
Acquired on	: 23 Sep 95 02:02 AM	Instrument Method:	WA-WATER.MTH
Report Created on:	23 Sep 95 09:31 AM	Analysis Method	: WA-WATER.MTH
Sample Info	: 5 ml		

Height Percent Report

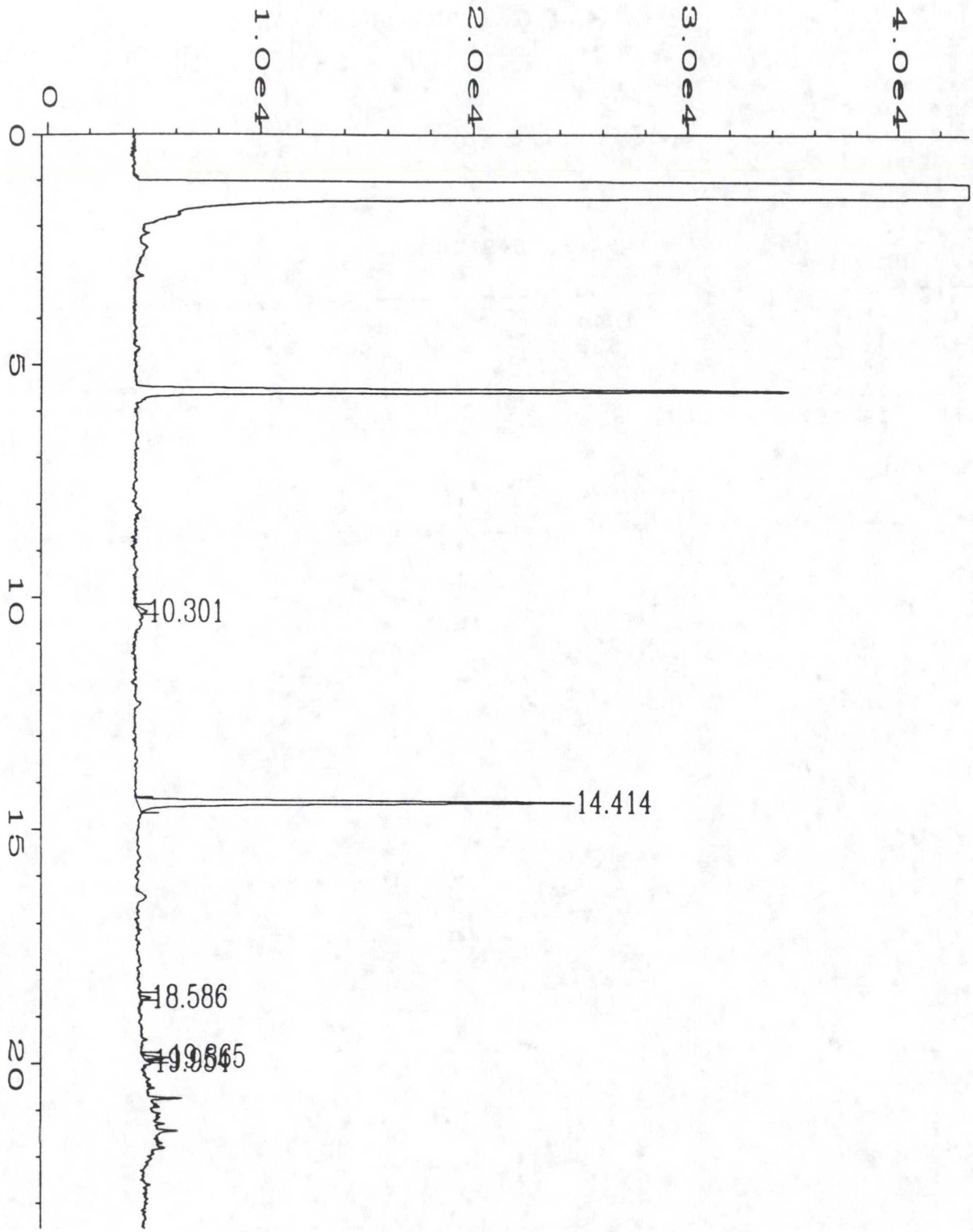
Data File Name : C:\HPCHEM\4\DATA\092295\043F0801.D
Operator :
Instrument : GC#4
Sample Name : b509239-03 r1
Run Time Bar Code:
Acquired on : 23 Sep 95 02:02 AM
Report Created on: 23 Sep 95 09:31 AM
Sample Info : 5 ml

Page Number : 1
Vial Number : 43
Injection Number : 1
Sequence Line : 8
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\092295\043F0801.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	8.134	10448	1682	PV	0.081	6.7895
2	12.269	6292	904	PV	0.088	3.6504
3	14.401	112297	20900	PV	0.083	84.3748
4	16.419	5375	797	PV	0.086	3.2165
5	19.947	1101	488	VV	0.038	1.9687

Total height = 24770



Data File Name	: C:\HPCHEM\4\DATA\092395\004F0101.D		
Operator	:	Page Number	: 1
Instrument	: GC#4	Vial Number	: 4
Sample Name	: b509239-05 r1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 23 Sep 95 12:17 PM	Instrument Method:	WA-WATER.MTH
Report Created on:	23 Sep 95 12:40 PM	Analysis Method	: WA-WATER.MTH
Sample Info	: 5 ml		

Height Percent Report

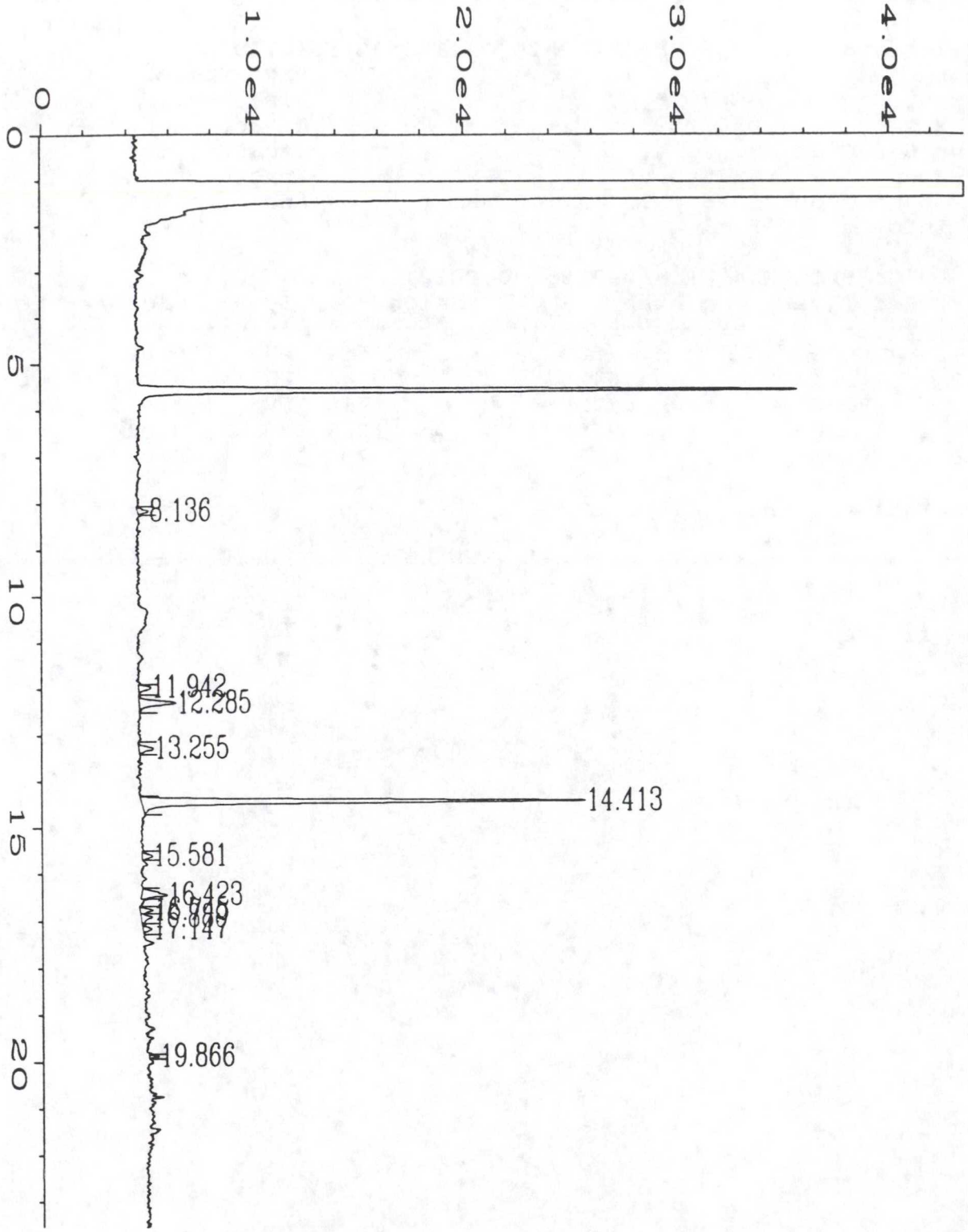
Data File Name : C:\HPCHEM\4\DATA\092395\004F0101.D
Operator :
Instrument : GC#4
Sample Name : b509239-05 r1
Run Time Bar Code:
Acquired on : 23 Sep 95 12:17 PM
Report Created on: 23 Sep 95 12:40 PM
Sample Info : 5 ml

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\092395\004F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	10.301	2683	414	PV	0.085	1.8086
2	14.414	110486	20544	PV	0.082	89.7508
3	18.586	1729	516	PV	0.055	2.2564
4	19.865	3591	1209	BV	0.044	5.2808
5	19.954	330	207	PV	0.027	0.9035

Total height = 22890



Data File Name : C:\HPCHEM\4\DATA\092395\005F0101.D
Operator :
Instrument : GC#4
Sample Name : b509239-06 r1
Run Time Bar Code:
Acquired on : 23 Sep 95 12:47 PM
Report Created on: 23 Sep 95 01:11 PM
Sample Info : 5 ml

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Height Percent Report

Data File Name : C:\HPCHEM\4\DATA\092395\005F0101.D
Operator :
Instrument : GC#4
Sample Name : b509239-06 r1
Run Time Bar Code:
Acquired on : 23 Sep 95 12:47 PM
Report Created on: 23 Sep 95 01:11 PM
Sample Info : 5 ml

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

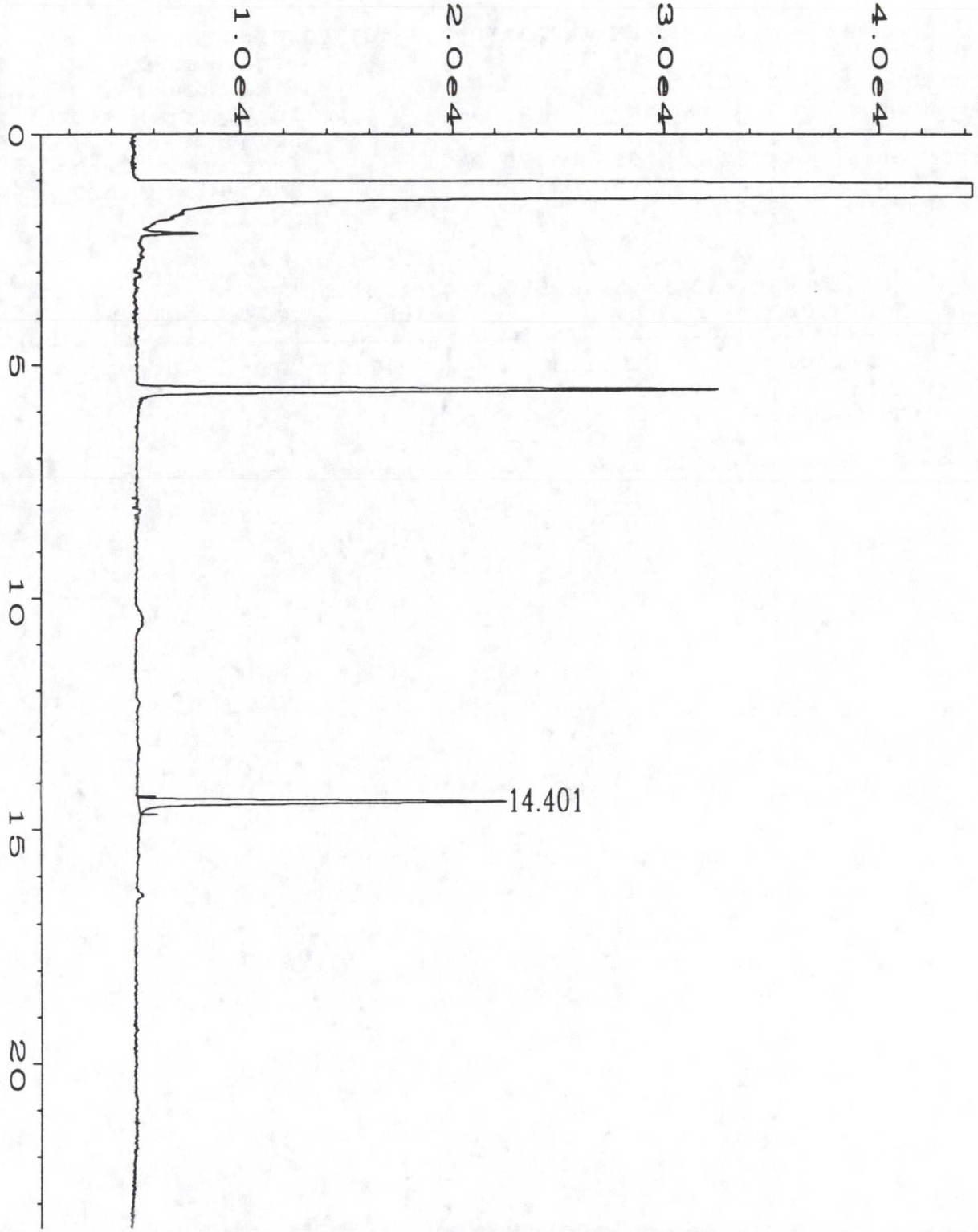
Sig. 1 in C:\HPCHEM\4\DATA\092395\005F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	8.136	2882	563	PV	0.074	1.9727
2	11.942	4067	590	VV	0.089	2.0697
3	12.285	12536	1757	VV	0.089	6.1598
4	13.255	4605	701	PV	0.085	2.4583
5	14.413	113221	21074	VV	0.083	73.8985
6	15.581	3180	487	VV	0.089	1.7085
7	16.423	8872	1225	BV	0.101	4.2938
8	16.745	3071	644	PV	0.066	2.2575
9	16.889	3453	555	VV	0.086	1.9449
10	17.147	2610	435	VV	0.075	1.5236
11	19.866	1307	488	VV	0.038	1.7127

Total height = 28518

QC RESULTS

BLANK DATA



Data File Name : C:\HPCHEM\4\DATA\092295\033F0801.D
Operator :
Instrument : GC#4
Sample Name : di blank
Run Time Bar Code:
Acquired on : 22 Sep 95 08:59 PM
Report Created on: 22 Sep 95 09:22 PM
Sample Info : 5 ml

Page Number : 1
Vial Number : 33
Injection Number : 1
Sequence Line : 8
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Height Percent Report

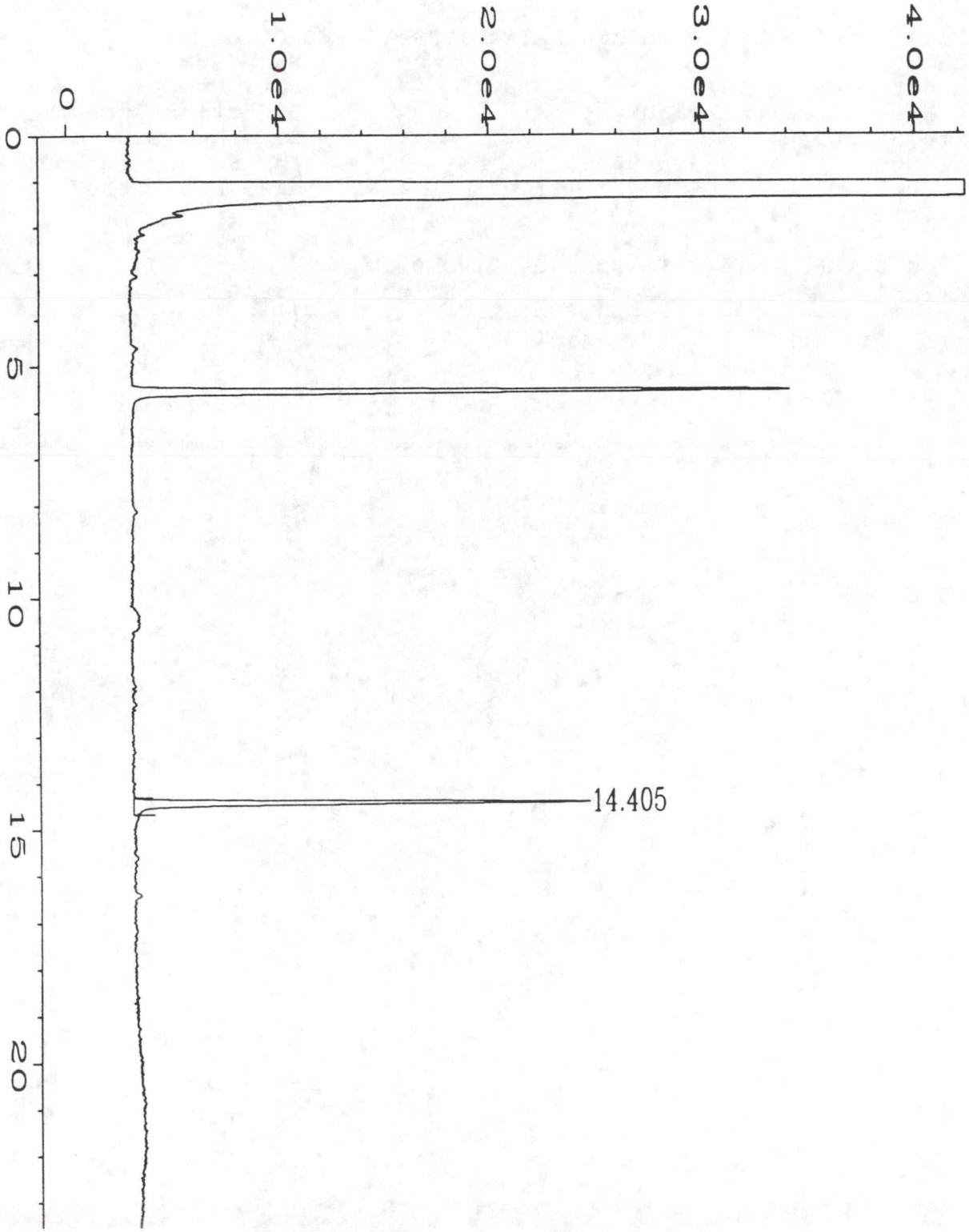
Data File Name : C:\HPCHEM\4\DATA\092295\033F0801.D
Operator :
Instrument : GC#4
Sample Name : di blank
Run Time Bar Code:
Acquired on : 22 Sep 95 08:59 PM
Report Created on: 22 Sep 95 09:22 PM
Sample Info : 5 ml

Page Number : 1
Vial Number : 33
Injection Number : 1
Sequence Line : 8
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\092295\033F0801.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	14.401	95102	17396	PV	0.084	100.0000

Total height = 17396



Data File Name : C:\HPCHEM\4\DATA\092395\001F0101.D
Operator :
Instrument : GC#4
Sample Name : di blank
Run Time Bar Code:
Acquired on : 23 Sep 95 10:46 AM
Report Created on: 23 Sep 95 11:09 AM
Sample Info : 5 ml

Page Number : 1
Vial Number : 1
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Height Percent Report

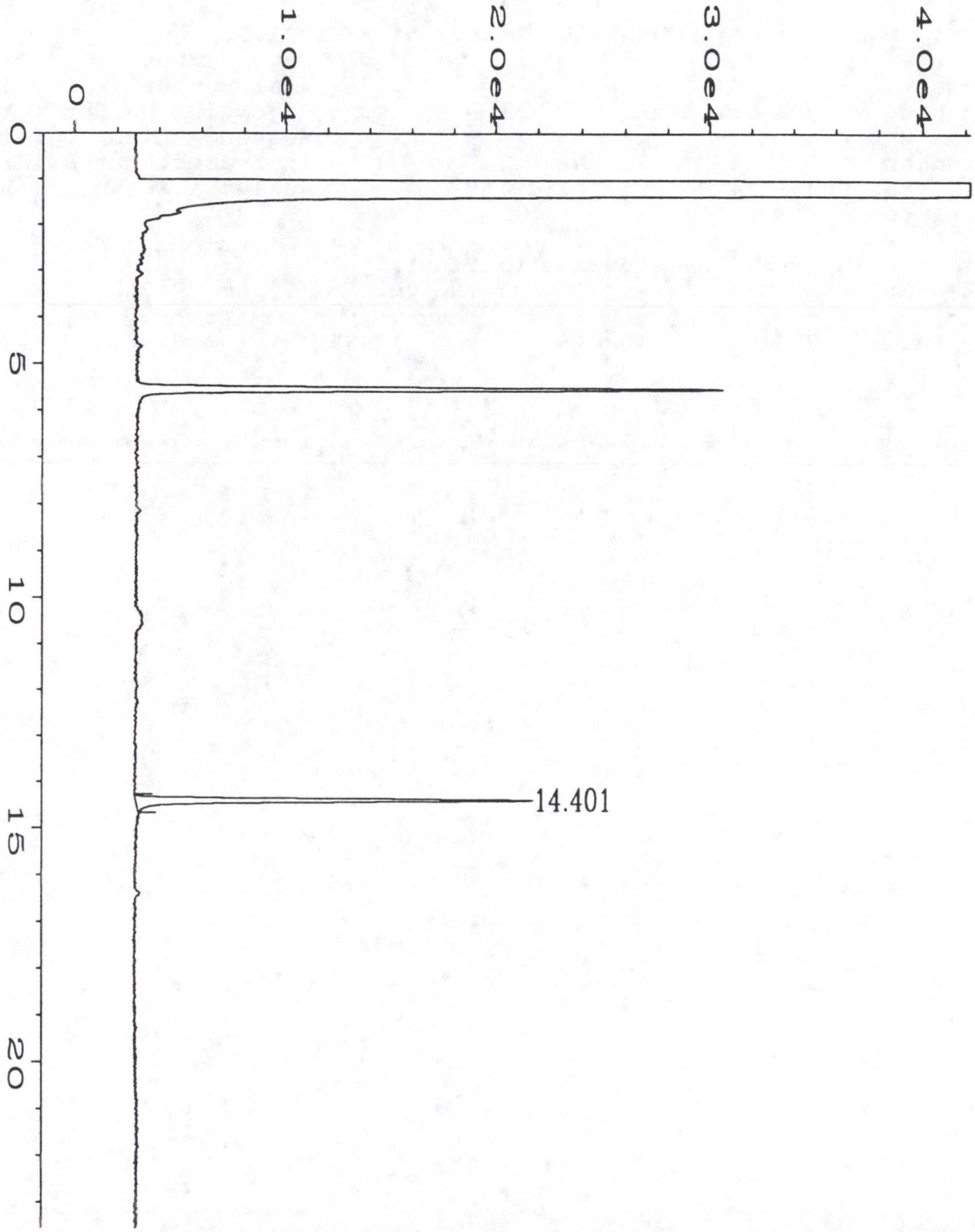
Data File Name : C:\HPCHEM\4\DATA\092395\001F0101.D
Operator :
Instrument : GC#4
Sample Name : di blank
Run Time Bar Code:
Acquired on : 23 Sep 95 10:46 AM
Report Created on: 23 Sep 95 11:09 AM
Sample Info : 5 ml

Page Number : 1
Vial Number : 1
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\092395\001F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	14.405	117412	21654	VV	0.084	100.0000

Total height = 21654



Data File Name : C:\HPCHEM\4\DATA\092395\033F1001.D
Operator :
Instrument : GC#4
Sample Name : di blank
Run Time Bar Code:
Acquired on : 24 Sep 95 02:56 AM
Report Created on: 24 Sep 95 03:19 AM
Sample Info : 5 ml

Page Number : 1
Vial Number : 33
Injection Number : 1
Sequence Line : 10
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Height Percent Report

Data File Name : C:\HPCHEM\4\DATA\092395\033F1001.D
Operator :
Instrument : GC#4
Sample Name : di blank
Run Time Bar Code:
Acquired on : 24 Sep 95 02:56 AM
Report Created on: 24 Sep 95 03:19 AM
Sample Info : 5 ml

Page Number : 1
Vial Number : 33
Injection Number : 1
Sequence Line : 10
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\092395\033F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	14.401	102879	18999	PV	0.083	100.0000

Total height = 18999

SPIKE DATA

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-9508 (206) 481-9200 • FAX 485-2992
East 11115 Montgomery, Suite B • Spokane, WA 99206-4776 (509) 924-9200 • FAX 924-9290
9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644-2202

Alta Geosciences 22833 Bothell-Everett Hwy., #1168 Bothell, WA 98021 Attention: Alex Tula	Client Project ID: Spokane Junkyard & Associated Properties Sample Matrix: Water Analysis Method: WTPH-G Units: µg/L (ppb)	Analyst: B. Christlieb F. Shino Analyzed: Sep 22, 1995 Reported: Oct 4, 1995

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT
Laboratory Control Sample

Gasoline

Spike Conc. Added:	100
Spike Result:	92
% Recovery:	92
Upper Control Limit %:	132
Lower Control Limit %:	56

PRECISION ASSESSMENT
Sample Duplicate

Gasoline Range Organics

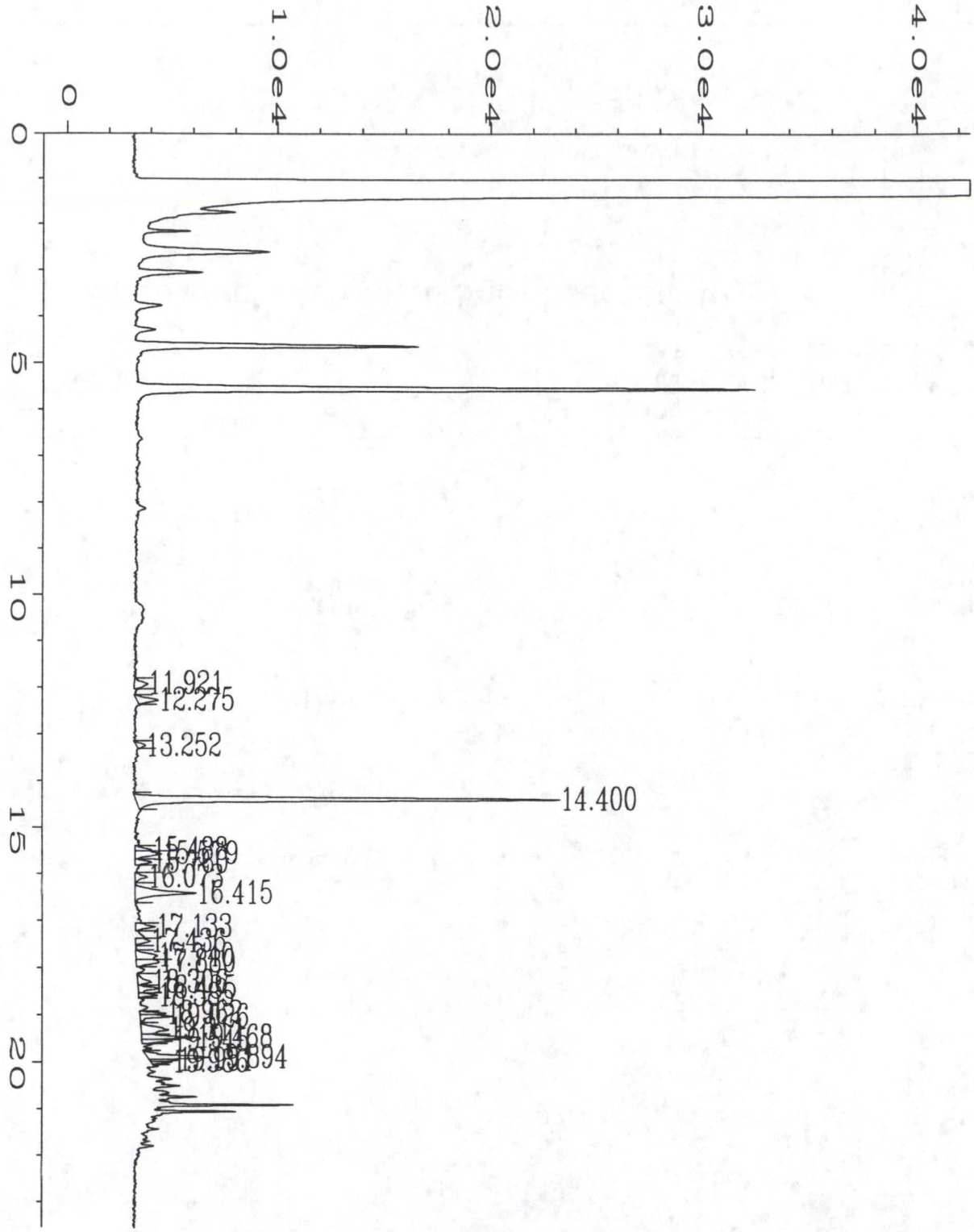
Sample Number:	B509345-01
Original Result:	N.D.
Duplicate Result:	N.D.
Relative % Difference	Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.
Maximum RPD:	50

NORTH CREEK ANALYTICAL In

Sally J. Hanley
Project Manager

% Recovery: $\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$

Relative % Difference: $\frac{\text{Original Result - Duplicate Result}}{(\text{Original Result + Duplicate Result}) / 2} \times 100$



Data File Name : C:\HPCHEM\4\DATA\092295\041F0801.D
Operator :
Instrument : GC#4
Sample Name : b509345-01dup r1
Run Time Bar Code:
Acquired on : 23 Sep 95 01:01 AM
Report Created on: 27 Sep 95 01:17 PM

Page Number : 1
Vial Number : 41
Injection Number : 1
Sequence Line : 8
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Height Percent Report

Data File Name : C:\HPCHEM\4\DATA\092295\041F0801.D
Operator :
Instrument : GC#4
Sample Name : b509345-01dup r1
Run Time Bar Code:
Acquired on : 23 Sep 95 01:01 AM
Report Created on: 27 Sep 95 01:17 PM

Page Number : 1
Vial Number : 41
Injection Number : 1
Sequence Line : 8
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\092295\041F0801.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	11.921	4876	652	PV	0.099	1.3342
2	12.275	6442	1025	PV	0.083	2.0981
3	13.252	2626	466	PV	0.082	0.9538
4	14.400	107816	20010	PV	0.083	40.9638
5	15.488	3290	796	VV	0.060	1.6300
6	15.579	7914	1282	VV	0.080	2.6249
7	15.760	3798	834	VV	0.059	1.7077
8	16.073	3506	617	PV	0.077	1.2628
9	16.415	20640	2935	PV	0.099	6.0087
10	17.133	5147	1001	VV	0.067	2.0497
11	17.436	3852	720	VV	0.076	1.4742
12	17.740	7638	1058	PV	0.094	2.1652
13	17.880	7378	1103	VV	0.086	2.2587
14	18.306	4198	671	PV	0.080	1.3730
15	18.435	4995	1069	VV	0.067	2.1880
16	18.585	3378	938	VV	0.052	1.9205
17	18.962	4157	1278	VV	0.050	2.6163
18	19.026	5533	1574	VV	0.053	3.2217
19	19.311	10202	1326	PV	0.109	2.7146
20	19.468	10545	2613	VV	0.058	5.3499
21	19.545	4981	1482	VV	0.049	3.0347
22	19.894	14829	3034	PV	0.066	6.2110
23	19.951	3106	1352	VV	0.038	2.7672
24	19.986	2269	1012	VV	0.037	2.0711

Total height = 48848

CALIBRATIONS

(INITIAL & CONTINUING)

INITIAL CALIBRATIONS

000034

Washington TPH-G Initial Calibration Data

Gas std. amt.(ng)	Total height	Int. Std. height	Surr. height	Total ht. - Surr. hts.	CF(ng/ht.)
100	43,431		21,662	21,769	4.59E-03
500	157,696		22,068	135,628	3.69E-03
1,000	292,020		23,225	268,795	3.72E-03
5,000	1,194,056		29,971	1,164,085	4.30E-03
10,000	2,123,393		33,789	2,089,604	4.79E-03
25,000	5,281,882		0	5,281,882	4.73E-03
50,000	11,711,400		0	11,711,400	4.27E-03

Point not used

Average CF = 4.30E-03

RSD = 11%

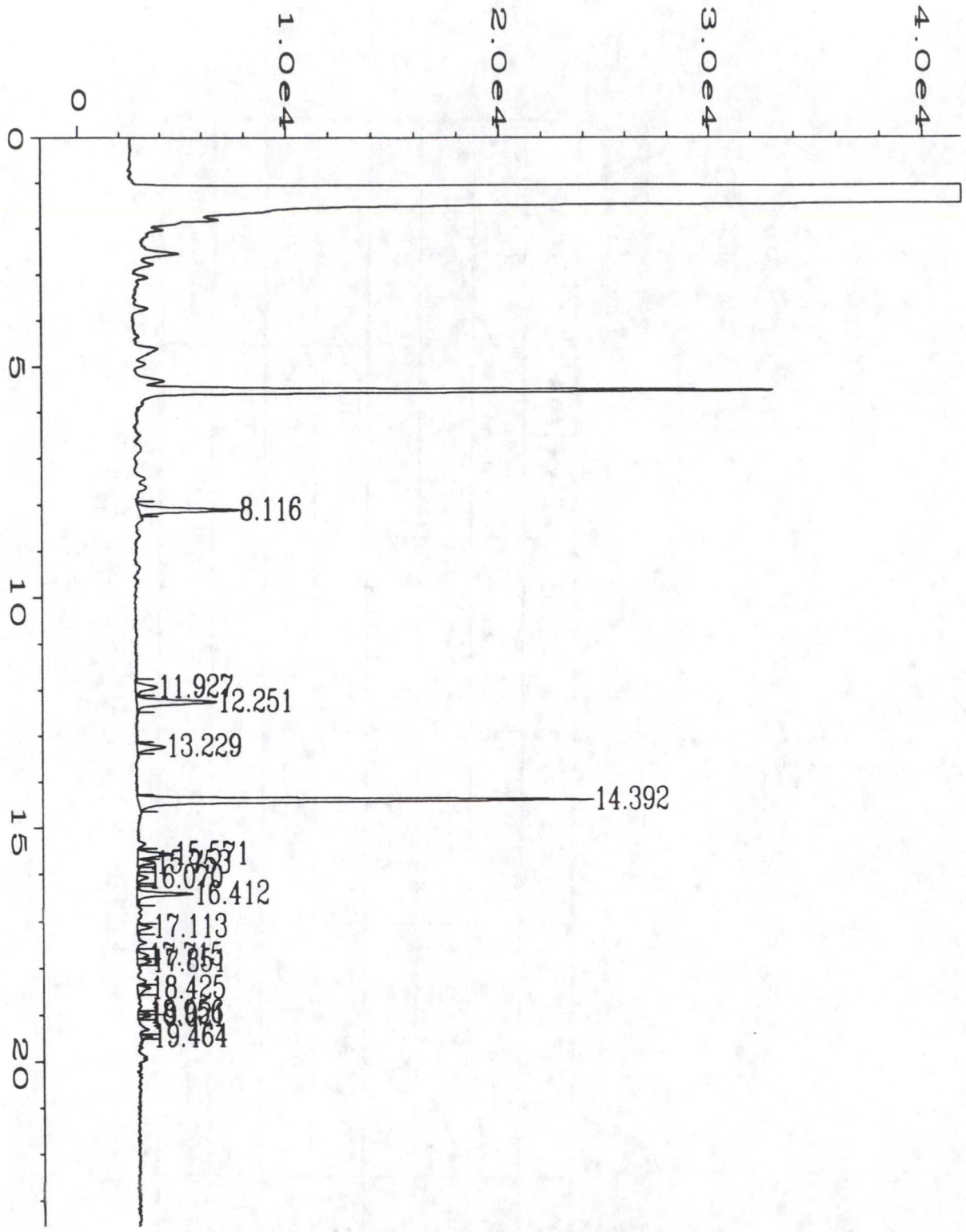
Gas standard: v-8j, v-5aa

Instrument: GC#4

Detector: FID

Analyst: T. Rubalcava

Date: 9/2/95



Data File Name	: C:\HPCHEM\4\DATA\090295\005F0101.D		
Operator	:	Page Number	: 1
Instrument	: GC#4	Vial Number	: 5
Sample Name	: gas cal 100	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Sep 95 10:22 AM	Instrument Method:	WA-WATER.MTH
Report Created on:	02 Sep 95 10:46 AM	Analysis Method	: WA-WATER.MTH
Sample Info	: 100 ng v-8j		

Height Percent Report

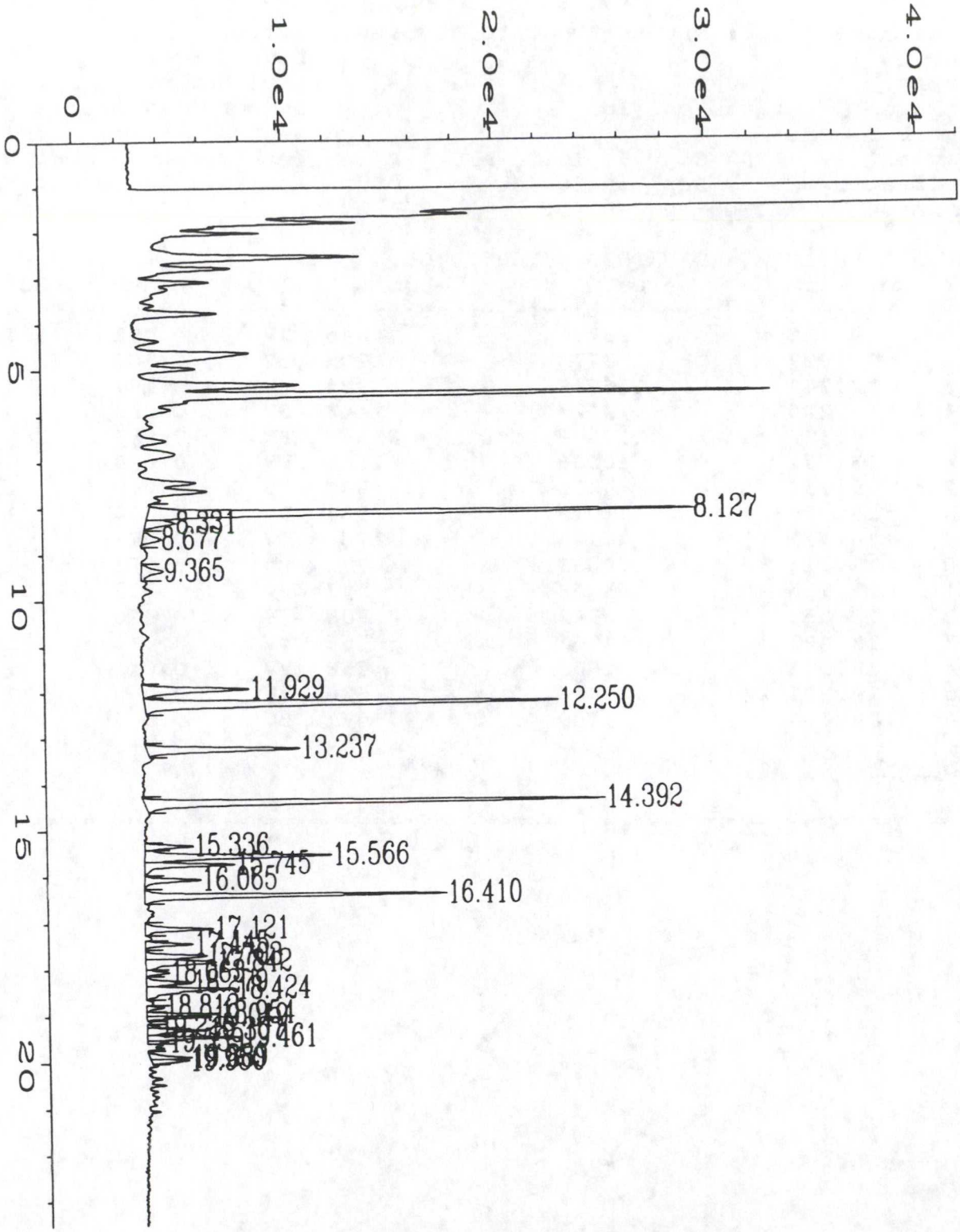
Data File Name : C:\HPCHEM\4\DATA\090295\005F0101.D
Operator :
Instrument : GC#4
Sample Name : gas cal 100
Run Time Bar Code:
Acquired on : 02 Sep 95 10:22 AM
Report Created on: 02 Sep 95 10:46 AM
Sample Info : 100 ng v-8j

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\090295\005F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	8.116	28770	4846	BV	0.091	11.1589
2	11.927	8773	1108	BV	0.100	2.5514
3	12.251	26758	3904	VV	0.101	8.9880
4	13.229	9627	1443	BV	0.088	3.3224
5	14.392	117599	21662	PV	0.083	49.8771
6	15.571	10606	1761	VV	0.083	4.0543
7	15.753	4815	886	VV	0.075	2.0402
8	16.070	3018	564	PV	0.074	1.2984
9	16.412	14995	2761	PV	0.078	6.3579
10	17.113	4093	773	VV	0.073	1.7805
11	17.715	3568	597	PV	0.077	1.3748
12	17.851	3982	705	VV	0.076	1.6243
13	18.425	4062	655	VV	0.086	1.5081
14	18.956	1668	558	VV	0.042	1.2841
15	19.021	2076	626	VV	0.050	1.4412
16	19.464	1709	581	BV	0.045	1.3383

Total height = 43431



Data File Name : C:\HPCHEM\4\DATA\090295\006F0101.D
Operator :
Instrument : GC#4
Sample Name : gas cal 500
Run Time Bar Code:
Acquired on : 02 Sep 95 10:52 AM
Report Created on: 02 Sep 95 11:16 AM
Sample Info : 500 ng v-8j

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Height Percent Report

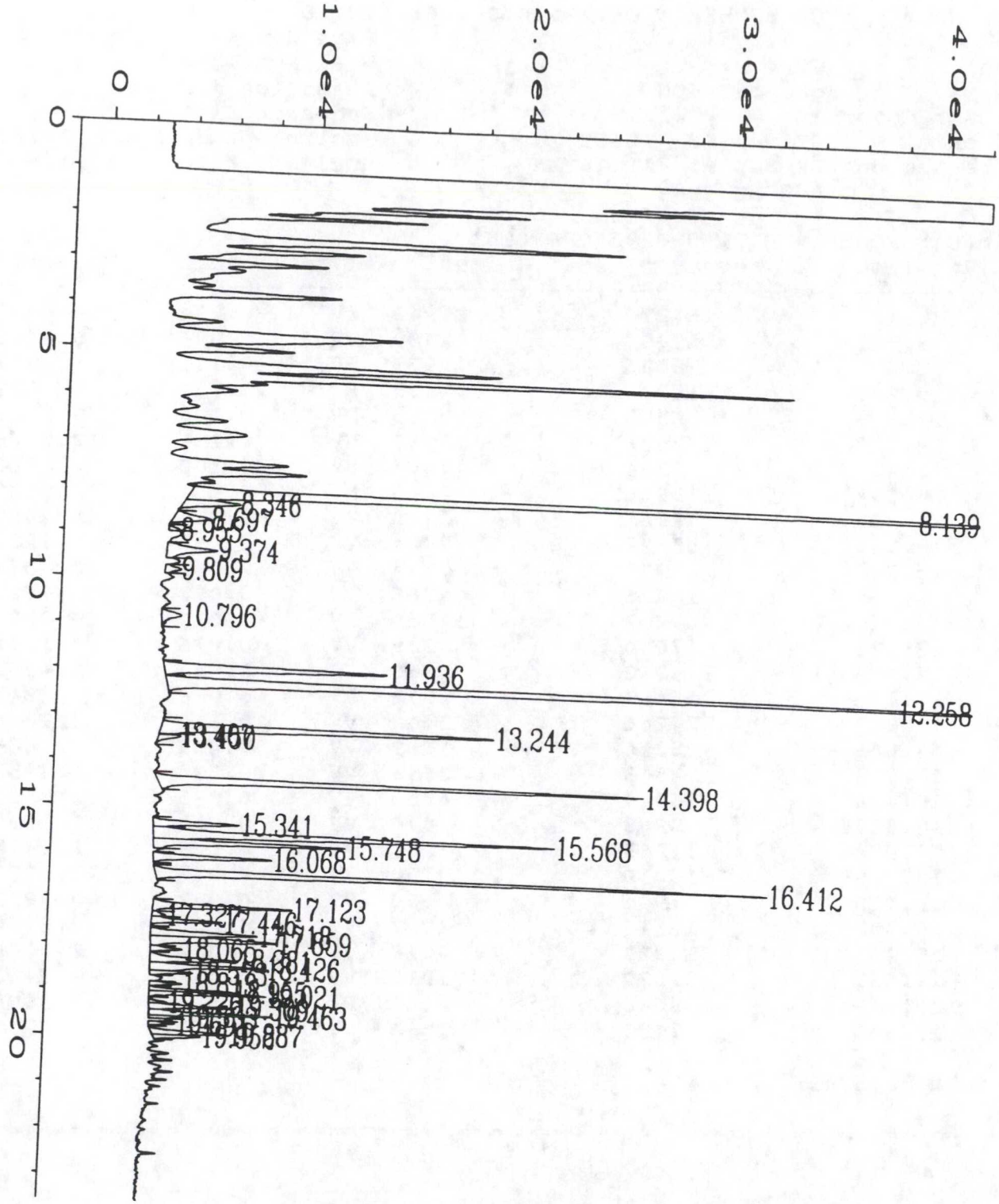
Data File Name : C:\HPCHEM\4\DATA\090295\006F0101.D
Operator :
Instrument : GC#4
Sample Name : gas cal 500
Run Time Bar Code:
Acquired on : 02 Sep 95 10:52 AM
Report Created on: 02 Sep 95 11:16 AM
Sample Info : 500 ng v-8j

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\090295\006F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	8.127	157976	25949	BV	0.094	16.4553
2	8.331	11057	1489	VV	0.093	0.9443
3	8.677	8086	935	PV	0.112	0.5929
4	9.365	10378	1125	BV	0.115	0.7132
5	11.929	36563	5155	PV	0.104	3.2688
6	12.250	132496	19811	VV	0.104	12.5626
7	13.237	47784	7404	BV	0.100	4.6951
8	14.392	119866	22068	BV	0.084	13.9940
9	15.336	11982	2376	PV	0.076	1.5065
10	15.566	55627	9024	VV	0.097	5.7225
11	15.745	23239	4394	VV	0.081	2.7861
12	16.065	13826	2786	VV	0.078	1.7665
13	16.410	67701	14559	PV	0.072	9.2321
14	17.121	17044	3339	VV	0.076	2.1171
15	17.445	9962	2360	VV	0.065	1.4962
16	17.703	16413	2972	PV	0.084	1.8847
17	17.842	24261	3448	VV	0.110	2.1864
18	18.063	5250	1199	VV	0.069	0.7606
19	18.279	12813	2248	VV	0.090	1.4253
20	18.424	26344	4350	VV	0.086	2.7582
21	18.813	3262	870	VV	0.059	0.5520
22	18.954	11249	3537	VV	0.049	2.2432
23	19.019	10010	3190	VV	0.047	2.0226
24	19.225	1944	620	VV	0.052	0.3931
25	19.307	12113	2957	VV	0.060	1.8754
26	19.461	15922	4618	VV	0.052	2.9285
27	19.539	3229	1018	VV	0.053	0.6453
28	19.889	8686	2051	PV	0.062	1.3008
29	19.950	7422	1846	VV	0.067	1.1707

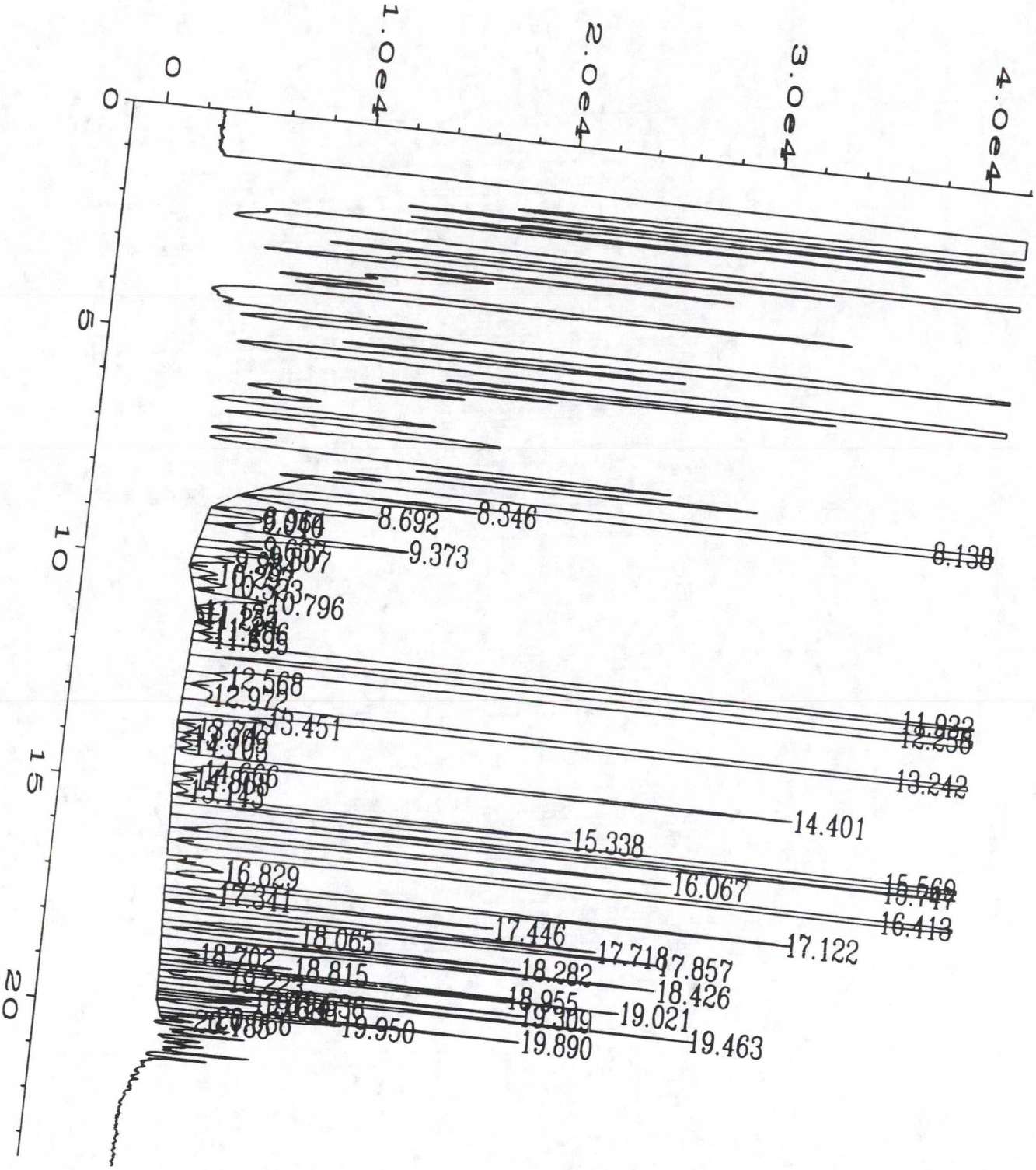
Total height = 157696



a File Name : C:\HPCHEM\4\DATA\090295\007F0101.D
cator :
crument : GC#4
ole Name : gas cal 1000
Time Bar Code:
uired on : 02 Sep 95 11:23 AM
ort Created on: 02 Sep 95 11:46 AM
ole Info : 1000 ng v-8j

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

000039



Name : C:\HPCHEM\4\DATA\090295\008F0101.D

e : GC#4

ar Code: gas cal 5000

n : 02 Sep 95 11:53 AM

ated on: 02 Sep 95 12:17 PM

) : 5000 ng v-5aa

Page Number

Vial Number : 1

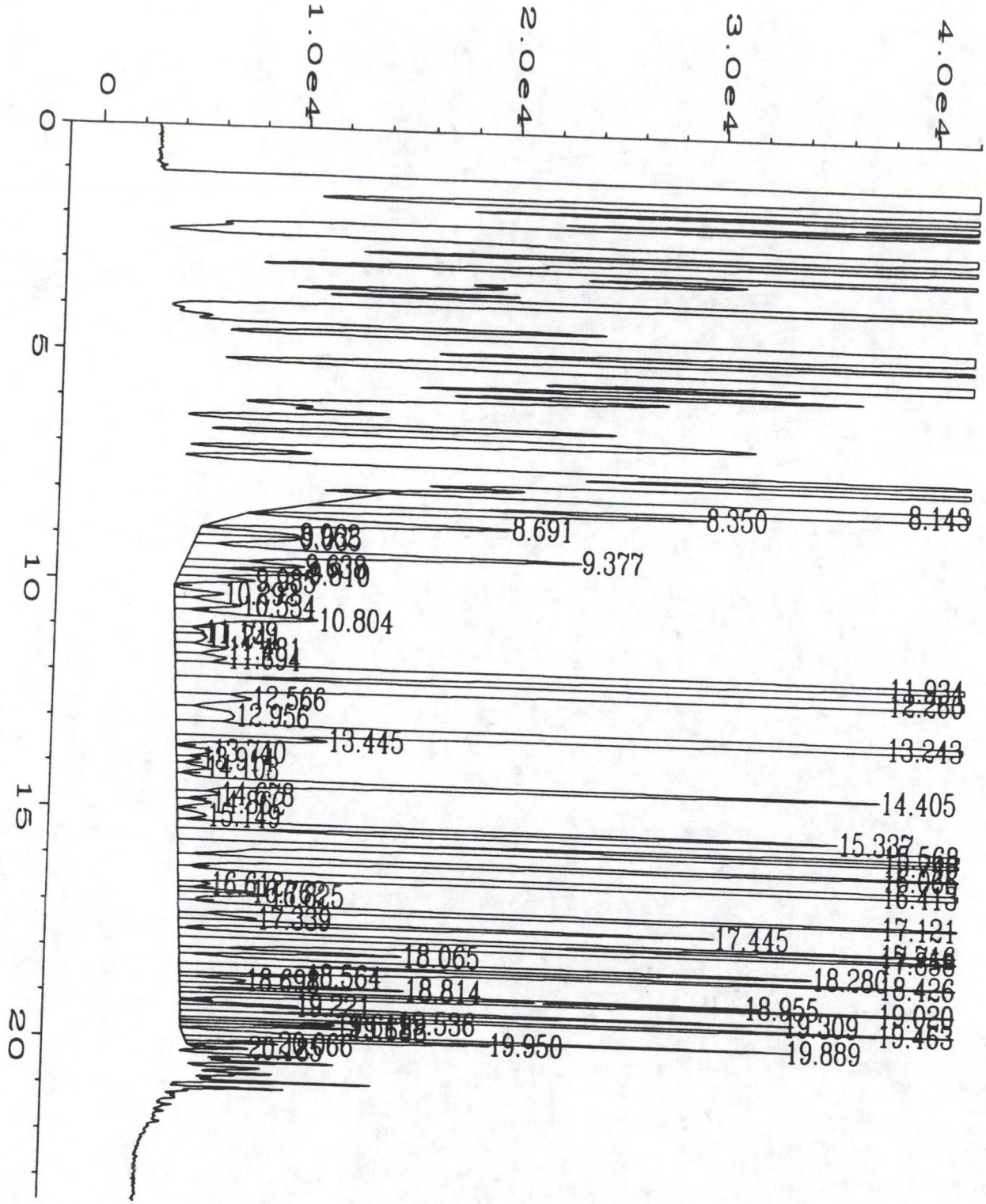
Injection Number : 8

Sequence Line : 1

Instrument Method: WA-WATER.MTH

Analysis Method : WA-WATER.MTH

000040



ta File Name : C:\HPCHEM\4\DATA\090295\009F0101.D
erator :
strument : GC#4
mple Name : gas cal 10000
n Time Bar Code:
quired on : 02 Sep 95 12:23 PM
port Created on: 02 Sep 95 12:47 PM
mple Info : 10000 ng v-5aa

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

000041

Data File Name : C:\HPCHEM\4\DATA\090295\009F0101.D
Operator :
Instrument : GC#4
Sample Name : gas cal 10000
Run Time Bar Code:
Acquired on : 02 Sep 95 12:23 PM
Report Created on: 02 Sep 95 12:47 PM

Page Number : 2
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

47	18.698	18969	3215	VV	0.094	0.1514
48	18.814	40568	10845	VV	0.057	0.5107
49	18.955	86114	28031	VV	0.047	1.3201
50	19.020	123160	39057	VV	0.048	1.8393
51	19.221	17692	5825	VV	0.046	0.2743
52	19.309	106292	29691	VV	0.054	1.3983
53	19.463	155869	42411	VV	0.054	1.9973
54	19.536	34762	10617	VV	0.055	0.5000
55	19.613	25166	7602	VV	0.048	0.3580
56	19.688	25567	8559	VV	0.046	0.4031
57	19.889	110119	29635	PV	0.053	1.3956
58	19.950	59021	14614	VV	0.067	0.6882
59	20.066	10627	4537	VV	0.037	0.2137
60	20.185	3737	2572	PBA	0.028	0.1211

Total height = 2123393

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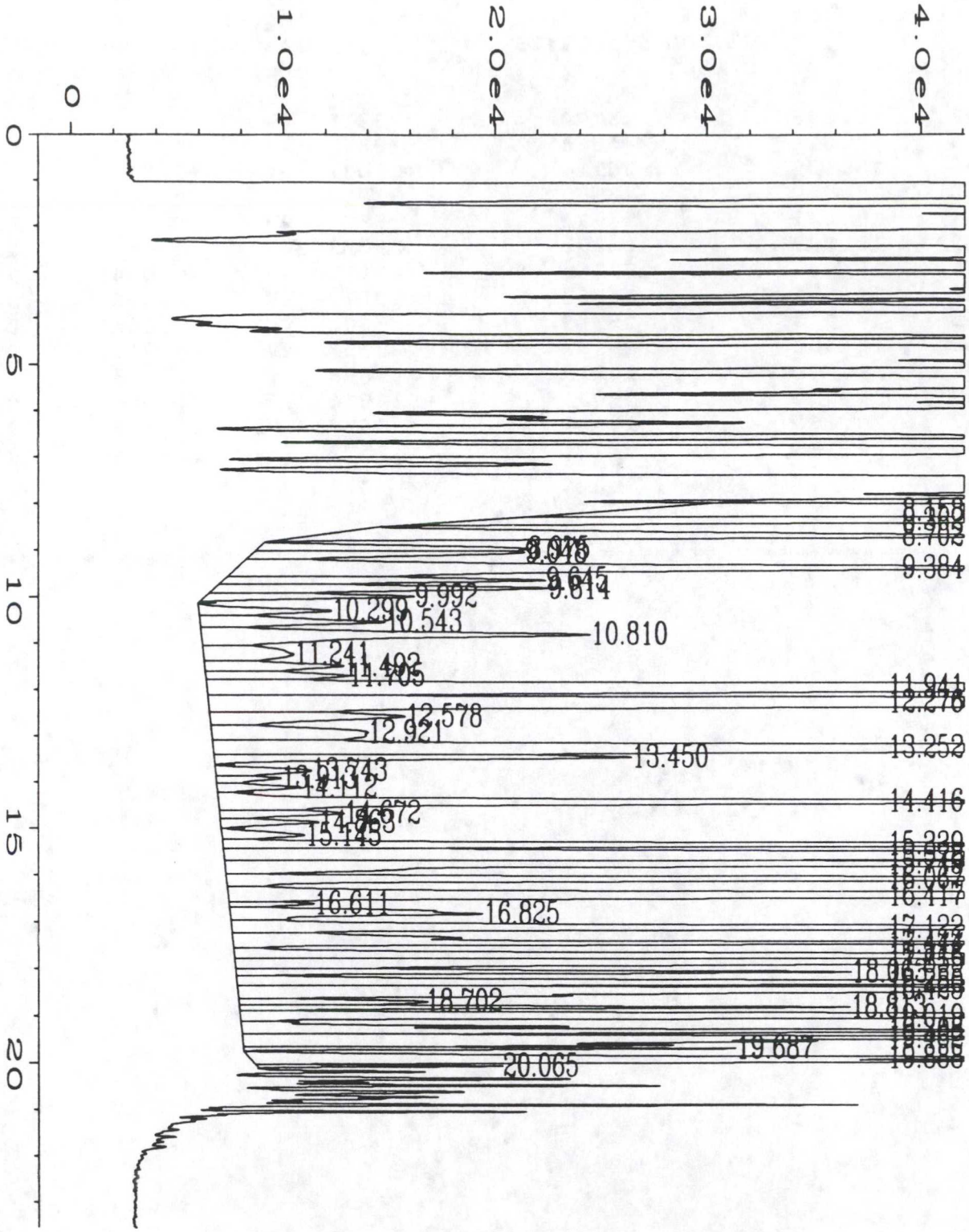

Data File Name : C:\HPCHEM\4\DATA\090295\010F0101.D
Operator :
Instrument : GC#4
Sample Name : gas cal 25000
Run Time Bar Code:
Acquired on : 02 Sep 95 12:54 PM
Report Created on: 02 Sep 95 01:18 PM
Sample Info : 25000 ng v-5aa

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Height Percent Report

Data File Name : C:\HPCHEM\4\DATA\090295\010F0101.D
Operator :
Instrument : GC#4
Sample Name : gas cal 25000
Run Time Bar Code:
Acquired on : 02 Sep 95 12:54 PM
Report Created on: 02 Sep 95 01:18 PM
Sample Info : 25000 ng v-5aa

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\090295\010F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	8.158	6602238	1085828	BV	0.095	20.5576
2	8.362	366400	51863	VV	0.110	0.9819
3	8.702	318343	36585	PV	0.131	0.6926
4	8.975	87886	12797	PV	0.105	0.2423
5	9.048	97126	12827	VV	0.106	0.2429
6	9.384	454876	49076	VV	0.134	0.9291
7	9.645	110710	15291	VV	0.108	0.2895
8	9.814	121470	15803	VV	0.120	0.2992
9	9.992	65813	9931	VV	0.104	0.1880
10	10.299	49425	6315	PV	0.116	0.1196
11	10.543	84178	8789	VV	0.141	0.1664
12	10.810	202270	18424	VV	0.158	0.3488
13	11.241	72703	4281	VV	0.213	0.0811
14	11.492	63913	6590	VV	0.144	0.1248
15	11.705	59386	6778	VV	0.123	0.1283
16	11.941	1598168	220061	VV	0.110	4.1663
17	12.276	5624290	848770	VV	0.104	16.0695
18	12.578	105670	9288	VV	0.160	0.1758
19	12.921	119143	7416	VV	0.219	0.1404
20	13.252	2179662	325921	VV	0.104	6.1705
21	13.450	135948	19793	VV	0.106	0.3747
22	13.743	41052	4575	VV	0.144	0.0866
23	13.913	20695	3071	VV	0.098	0.0581
24	14.112	29645	3995	VV	0.115	0.0756
25	14.416	399604	56729	VV	0.107	1.0740
26	14.672	45383	5926	VV	0.115	0.1122
27	14.863	34546	4689	VV	0.111	0.0888
28	15.145	32982	3960	VV	0.122	0.0750
29	15.339	420092	83662	VV	0.079	1.5839
30	15.572	2243466	373902	VV	0.094	7.0789
31	15.749	892714	178016	VV	0.078	3.3703
32	16.067	548438	112925	VV	0.076	2.1380
33	16.417	2578935	575715	VV	0.070	10.8998
34	16.611	21208	4048	VV	0.087	0.0766
35	16.825	109743	11999	VV	0.123	0.2272
36	17.122	658170	134861	VV	0.075	2.5533
37	17.444	354168	68023	VV	0.078	1.2879
38	17.716	533792	99813	VV	0.081	1.8897
39	17.855	715459	111471	VV	0.099	2.1104
40	18.063	132748	29216	VV	0.071	0.5531
41	18.280	459995	81099	VV	0.090	1.5354
42	18.425	592779	106802	VV	0.080	2.0220
43	18.702	54083	8917	VV	0.094	0.1688
44	18.813	107598	28892	VV	0.058	0.5470
45	19.019	554716	103606	VV	0.075	1.9615
46	19.308	338725	80629	VV	0.063	1.5265

000044

Data File Name : C:\HPCHEM\4\DATA\090295\010F0101.D
Operator : Page Number : 2
Instrument : GC#4 Vial Number : 10
Sample Name : gas cal 25000 Injection Number : 1
Run Time Bar Code: Sequence Line : 1
Acquired on : 02 Sep 95 12:54 PM Instrument Method: WA-WATER.MTH
Report Created on: 02 Sep 95 01:18 PM Analysis Method : WA-WATER.MTH

47	19.462	571005	113391	VV	0.071	2.1468
48	19.687	69260	23443	VV	0.047	0.4438
49	19.888	446882	84292	PV	0.084	1.5959
50	20.065	26847	11789	VV	0.038	0.2232

Total height = 5281882

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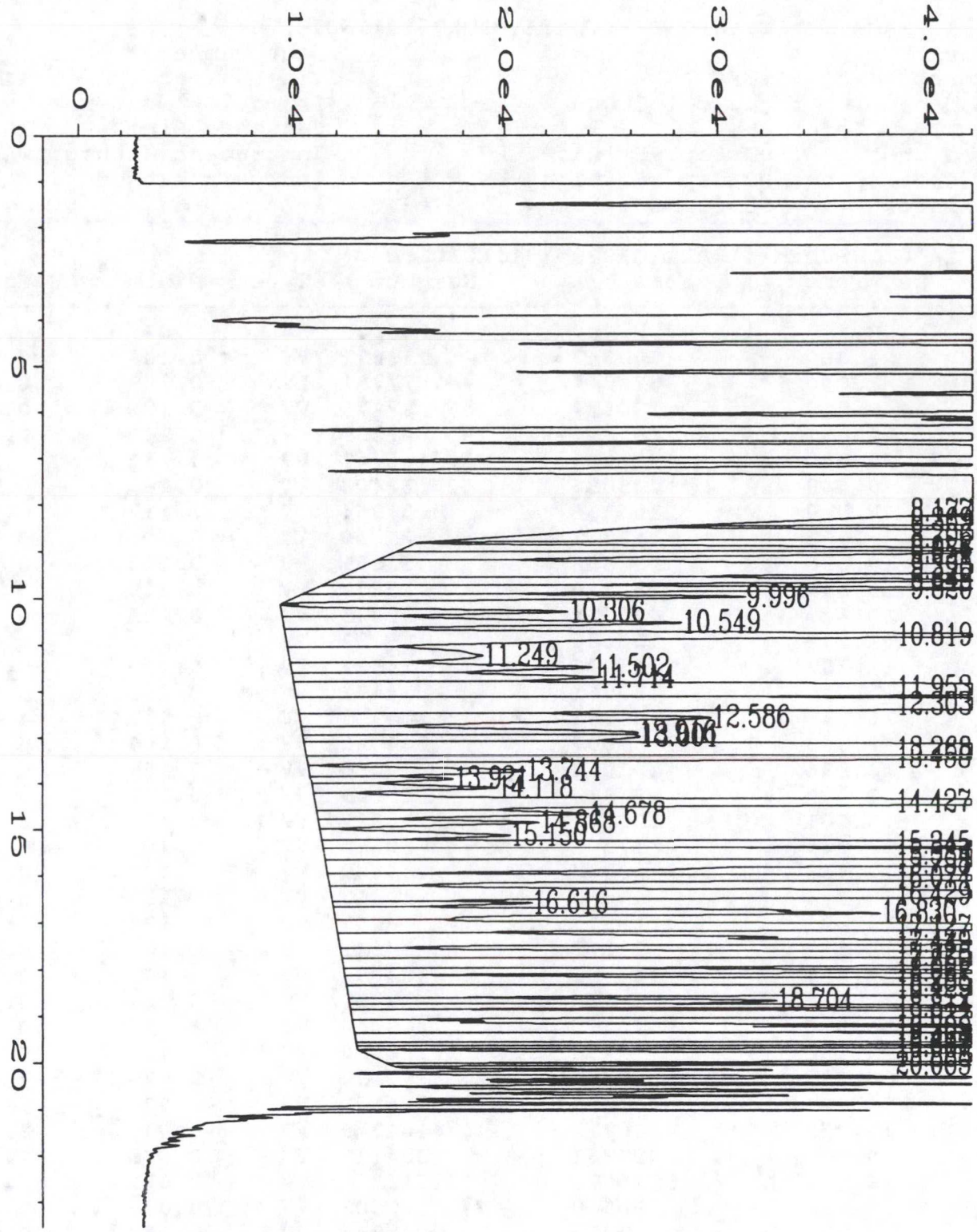


Data File Name	: C:\HPCHEM\4\DATA\090295\011F0101.D		
Operator	:	Page Number	: 1
Instrument	: GC#4	Vial Number	: 11
Sample Name	: gas cal 50000	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Sep 95 01:24 PM	Instrument Method:	WA-WATER.MTH
Report Created on:	02 Sep 95 01:48 PM	Analysis Method	: WA-WATER.MTH
Sample Info	: 50000 ng v-5aa		

Height Percent Report

Data File Name : C:\HPCHEM\4\DATA\090295\011F0101.D
Operator :
Instrument : GC#4
Sample Name : gas cal 50000
Run Time Bar Code:
Acquired on : 02 Sep 95 01:24 PM
Report Created on: 02 Sep 95 01:48 PM
Sample Info : 50000 ng v-5aa

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\090295\011F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	8.177	1.41873E+007	2260547	BV	0.097	19.3020
2	8.369	790357	113831	VV	0.108	0.9720
3	8.706	674547	77731	PV	0.129	0.6637
4	8.976	190327	27276	PV	0.104	0.2329
5	9.051	203794	27269	VV	0.112	0.2328
6	9.390	987203	106741	VV	0.132	0.9114
7	9.649	235556	32403	VV	0.108	0.2767
8	9.820	255386	33364	VV	0.117	0.2849
9	9.996	143061	21330	VV	0.106	0.1821
10	10.306	104656	13651	PV	0.116	0.1166
11	10.549	182276	18877	VV	0.139	0.1612
12	10.819	432612	39835	VV	0.158	0.3401
13	11.249	156680	9232	VV	0.214	0.0788
14	11.502	141096	14313	VV	0.143	0.1222
15	11.714	129561	14492	VV	0.133	0.1237
16	11.953	3505092	474967	VV	0.112	4.0556
17	12.303	1.24171E+007	1844032	VV	0.104	15.7456
18	12.586	221054	19465	VV	0.168	0.1662
19	12.916	133813	15955	VV	0.130	0.1362
20	13.001	129271	16027	VV	0.116	0.1368
21	13.268	4817161	720642	VV	0.104	6.1533
22	13.458	300897	44109	VV	0.104	0.3766
23	13.744	94838	10313	VV	0.150	0.0881
24	13.921	46519	6793	VV	0.100	0.0580
25	14.118	70296	8821	VV	0.121	0.0753
26	14.427	744491	104081	VV	0.109	0.8887
27	14.678	108716	12956	VV	0.124	0.1106
28	14.868	78170	10546	VV	0.114	0.0900
29	15.150	79738	9080	VV	0.127	0.0775
30	15.345	953209	190193	VV	0.079	1.6240
31	15.584	5061203	846563	VV	0.094	7.2285
32	15.758	1994722	404375	VV	0.077	3.4528
33	16.074	1223831	254243	VV	0.075	2.1709
34	16.429	5876370	1311277	VV	0.071	11.1965
35	16.616	50939	9602	VV	0.078	0.0820
36	16.830	237028	25835	VV	0.123	0.2206
37	17.127	1461825	303239	VV	0.074	2.5893
38	17.449	776529	156358	VV	0.075	1.3351
39	17.720	1213706	227866	VV	0.081	1.9457
40	17.859	1605066	252103	VV	0.099	2.1526
41	18.067	299463	66326	VV	0.070	0.5663
42	18.285	1052304	186396	VV	0.090	1.5916
43	18.429	1348393	251644	VV	0.078	2.1487
44	18.704	119698	20151	VV	0.092	0.1721
45	18.814	243505	66217	VV	0.057	0.5654
46	19.022	1284941	241991	VV	0.074	2.0663

000047

D[illegible] Name : C:\HPCHEM\4\DATA\090295\011F0101.D
Operator :
Instrument : GC#4
Sample Name : gas cal 50000
Run Time Bar Code:
Acquired on : 02 Sep 95 01:24 PM
Report Created on: 02 Sep 95 01:48 PM

Page Number : 2
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

47	19.309	781840	187715	VV	0.062	1.6028
48	19.464	1160101	264309	VV	0.077	2.2568
49	19.611	160884	47923	VV	0.056	0.4092
50	19.687	159229	55612	VV	0.046	0.4749
51	19.888	1039316	204861	PV	0.071	1.7492
52	20.065	63417	27964	VV	0.038	0.2388

Total height = 1.17114E+007

==========

000049

Gas/BTEX Surrogate Calibration Data

Surr. amt. (ng)	FID		PID		
	Surr. height	CF	Int. Std. height	Surr. height	RF
8	2,188	3.66E-03	19,543	6,621	2.95E-01
20	4,496	4.45E-03	19,924	13,350	3.73E-01
40	9,676	4.13E-03	21,276	28,878	3.68E-01
100	22,006	4.54E-03	18,768	65,096	3.60E-01
200	45,104	4.43E-03	20,450	136,009	3.76E-01
400	90,934	4.40E-03	19,762	275,351	3.59E-01
1,000	257,544	3.88E-03	19,895	771,056	3.23E-01

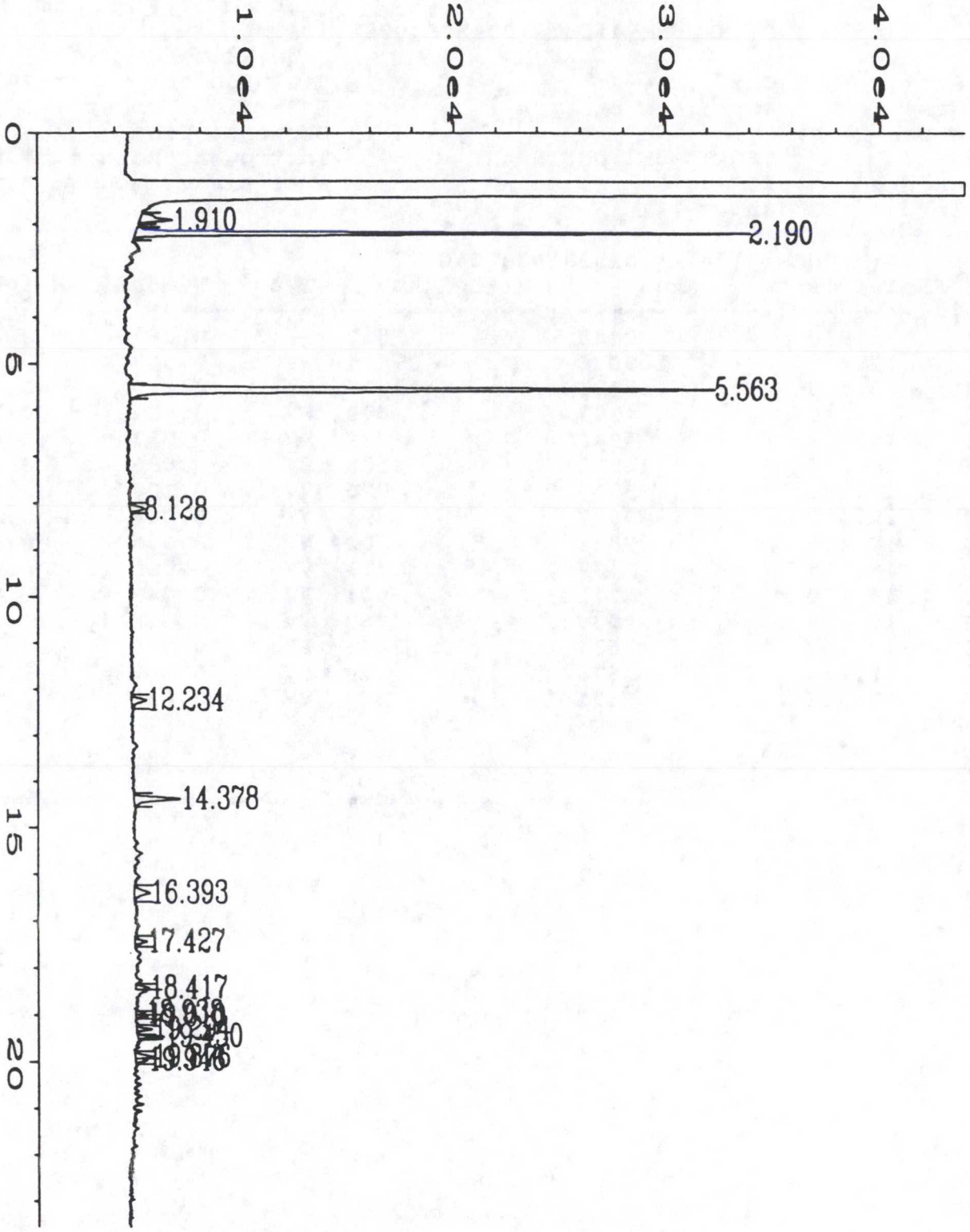
[redacted]

Average CF = 4.24E-03
RSD = 8%
Soil % Recovery CF = 1.06E-03
Water % Recovery CF = 5.30E-03

Average RF = 3.51E-01
RSD = 9%
Soil % Recovery RF = 8.77E+00
Water % Recovery RF = 2.19E+00

Surrogate Standard: v-12l (4-Bromofluorobenzene)
Internal Standard: v-12n (80ng 1,2,3-Trifluorobenzene)
Instrument: GC#4
Analyst: T. Rubalcava
Date: 8/15/95

FID CF = aS/hS
PID RF = (aS/hS) x (hI/aI), where
aS = amount of Surrogate; hS = height of Surrogate
aI = amount of Internal Std.; hI = height of Internal Std.



Data File Name	: C:\HPCHEM\4\DATA\081595\028F0401.D		
Operator	:	Page Number	: 1
Instrument	: GC#4	Vial Number	: 28
Sample Name	: surrogate std	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 4
Acquired on	: 16 Aug 95 00:36 AM	Instrument Method:	FID.MTH
Report Created on:	16 Aug 95 01:00 AM	Analysis Method	: FID.MTH
Sample Info	: 8ng v-121		

Height Percent Report

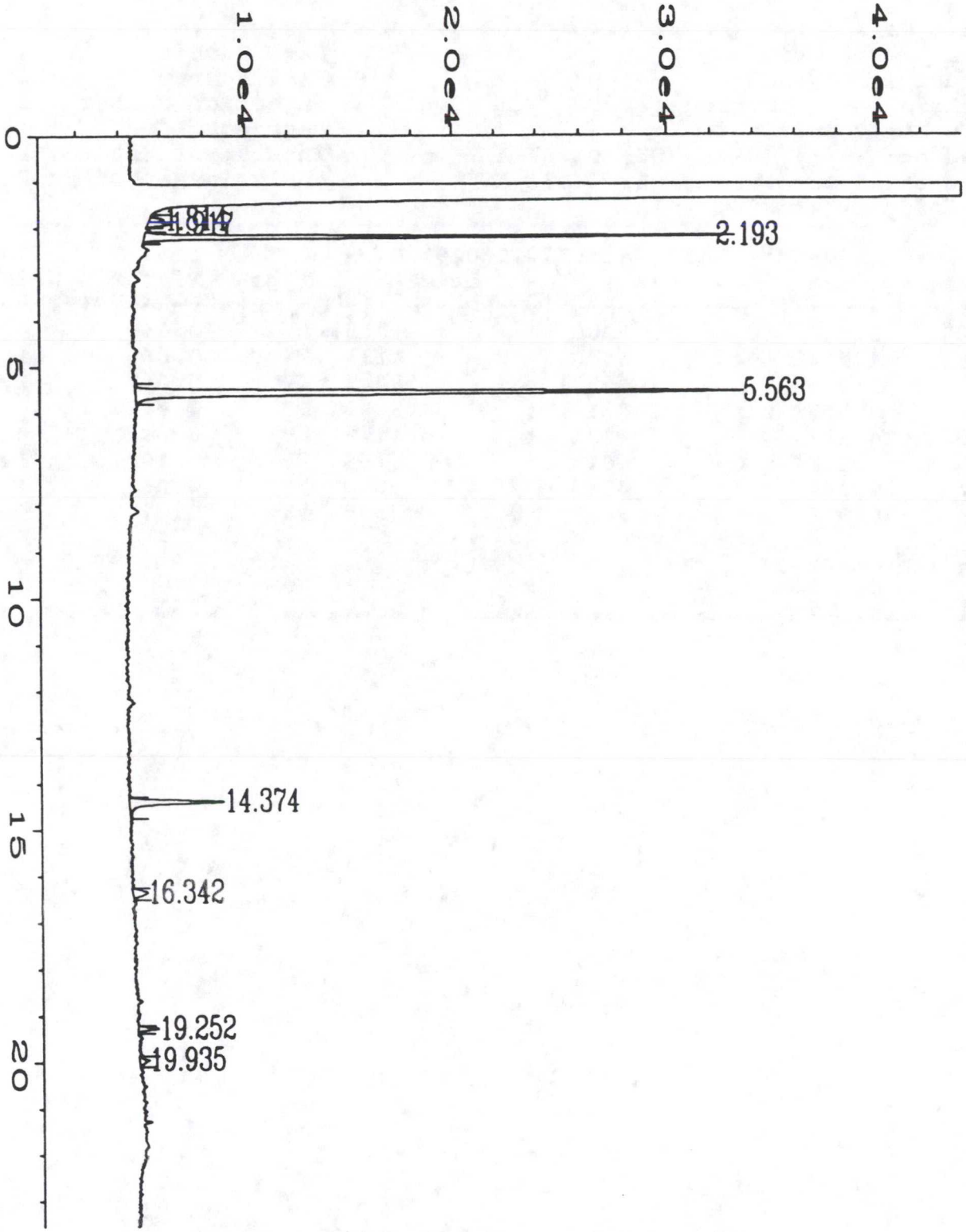
Data File Name : C:\HPCHEM\4\DATA\081595\028F0401.D
Operator :
Instrument : GC#4
Sample Name : surrogate std
Run Time Bar Code:
Acquired on : 16 Aug 95 00:36 AM
Report Created on: 16 Aug 95 01:00 AM
Sample Info : 8ng v-121

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 4
Instrument Method: FID.MTH
Analysis Method : FID.MTH

Sig. 1 in C:\HPCHEM\4\DATA\081595\028F0401.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	1.910	9488	1533	PV	0.087	2.2181
2	2.190	109036	29405	VV	0.057	42.5396
3	5.563	162921	27936	PV	0.090	40.4149
4	8.128	4377	690	PV	0.082	0.9979
5	12.234	4942	741	PV	0.083	1.0718
6	14.378	12920	2188	BV	0.086	3.1648
7	16.393	5955	770	VV	0.104	1.1133
8	17.427	3027	594	VV	0.064	0.8600
9	18.417	2814	682	VV	0.056	0.9873
10	18.938	1437	473	VV	0.043	0.6848
11	19.010	1772	601	VV	0.043	0.8700
12	19.294	2539	762	VV	0.048	1.1020
13	19.450	3634	1296	PV	0.045	1.8754
14	19.876	3676	874	BV	0.057	1.2645
15	19.946	2471	578	VV	0.058	0.8355

Total height = 69123



Data File Name : C:\HPCHEM\4\DATA\081595\029F0401.D
Operator :
Instrument : GC#4
Sample Name : surrogate std
Run Time Bar Code:
Acquired on : 16 Aug 95 01:07 AM
Report Created on: 16 Aug 95 01:31 AM
Sample Info : 20ng v-121

Page Number : 1
Vial Number : 29
Injection Number : 1
Sequence Line : 4
Instrument Method: FID.MTH
Analysis Method : FID.MTH

Height Percent Report

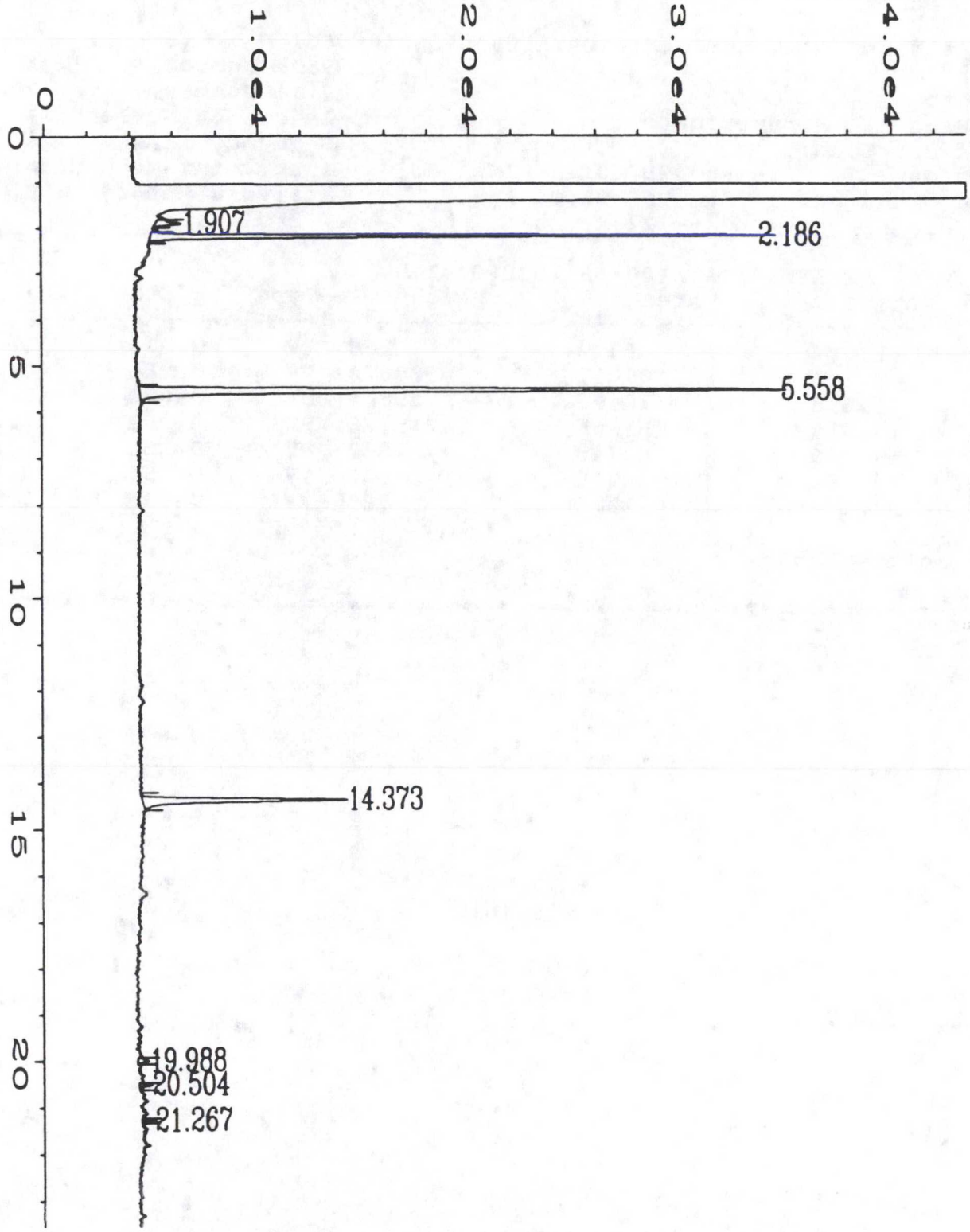
Data File Name : C:\HPCHEM\4\DATA\081595\029F0401.D
Operator :
Instrument : GC#4
Sample Name : surrogate std
Run Time Bar Code:
Acquired on : 16 Aug 95 01:07 AM
Report Created on: 16 Aug 95 01:31 AM
Sample Info : 20ng v-121

Page Number : 1
Vial Number : 29
Injection Number : 1
Sequence Line : 4
Instrument Method: FID.MTH
Analysis Method : FID.MTH

Sig. 1 in C:\HPCHEM\4\DATA\081595\029F0401.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	1.814	3206	715	BV	0.059	1.0891
2	1.917	5440	1139	VV	0.069	1.7361
3	2.193	104553	28047	VV	0.057	42.7497
4	5.563	168717	28886	PV	0.090	44.0284
5	14.374	26251	4496	BV	0.087	6.8528
6	16.342	5628	756	PV	0.101	1.1519
7	19.252	4366	1040	BV	0.064	1.5847
8	19.935	3092	530	VV	0.074	0.8073

Total height = 65607



Data File Name	: C:\HPCHEM\4\DATA\081595\030F0401.D		
Operator	:	Page Number	: 1
Instrument	: GC#4	Vial Number	: 30
Sample Name	: surrogate std	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 4
Acquired on	: 16 Aug 95 01:37 AM	Instrument Method	: FID.MTH
Report Created on:	16 Aug 95 02:01 AM	Analysis Method	: FID.MTH
Sample Info	: 40ng v-121		

Height Percent Report

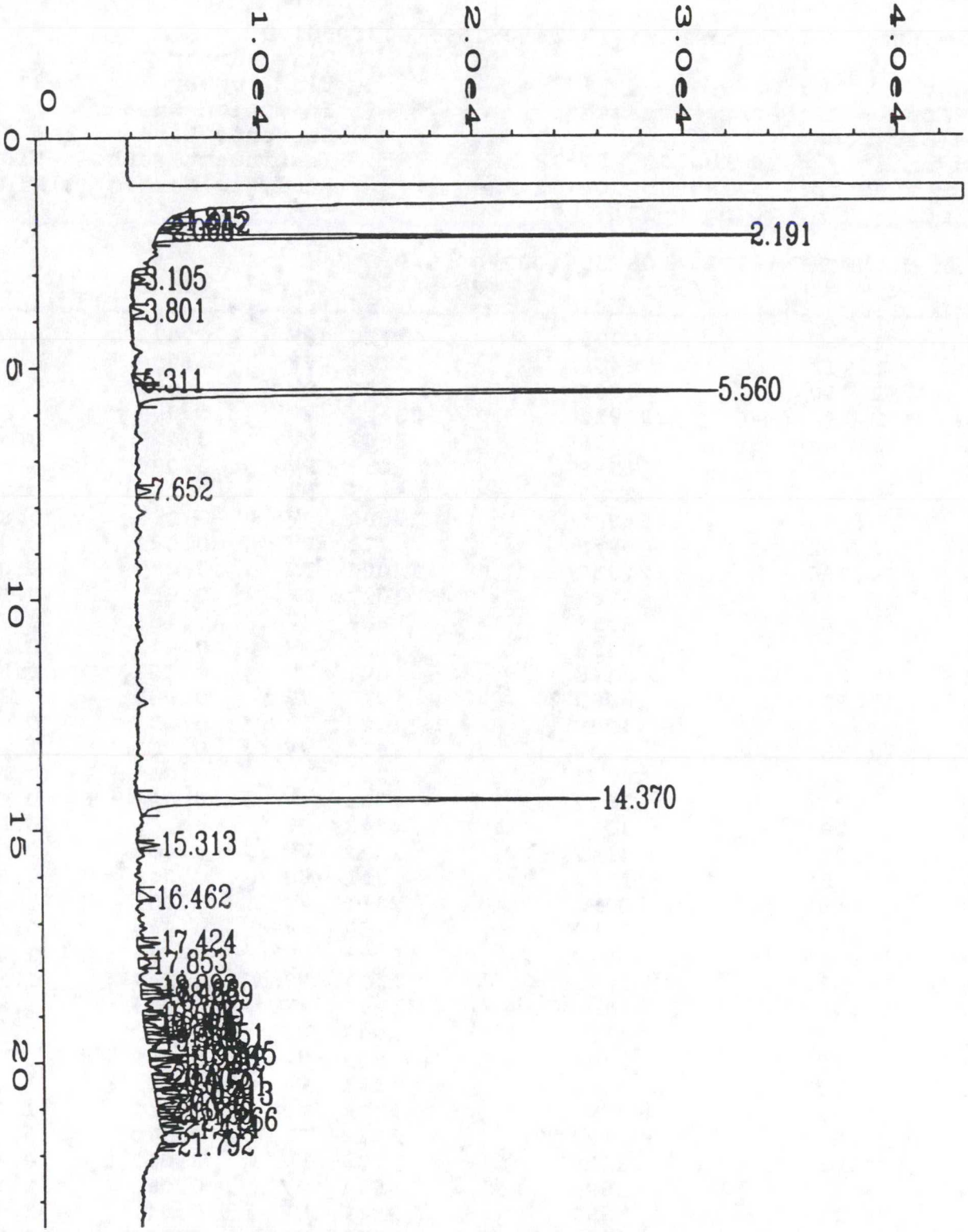
Data File Name : C:\HPCHEM\4\DATA\081595\030F0401.D
Operator :
Instrument : GC#4
Sample Name : surrogate std
Run Time Bar Code:
Acquired on : 16 Aug 95 01:37 AM
Report Created on: 16 Aug 95 02:01 AM
Sample Info : 40ng v-121

Page Number : 1
Vial Number : 30
Injection Number : 1
Sequence Line : 4
Instrument Method: FID.MTH
Analysis Method : FID.MTH

Sig. 1 in C:\HPCHEM\4\DATA\081595\030F0401.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	1.907	6372	1266	VV	0.073	1.7220
2	2.186	109067	29872	VV	0.056	40.6338
3	5.558	178495	30804	BV	0.090	41.9011
4	14.373	52865	9676	PV	0.082	13.1620
5	19.988	2245	542	VV	0.058	0.7369
6	20.504	2208	630	VV	0.054	0.8576
7	21.267	1815	725	VV	0.036	0.9865

Total height = 73515



Data File Name	: C:\HPCHEM\4\DATA\081595\033F0501.D		
Operator	:	Page Number	: 1
Instrument	: GC#4	Vial Number	: 33
Sample Name	: surrogate std	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 5
Acquired on	: 16 Aug 95 02:38 AM	Instrument Method:	FID.MTH
Report Created on:	16 Aug 95 03:02 AM	Analysis Method	: FID.MTH
Sample Info	: ~~200~~ng v-121		

100

Height Percent Report

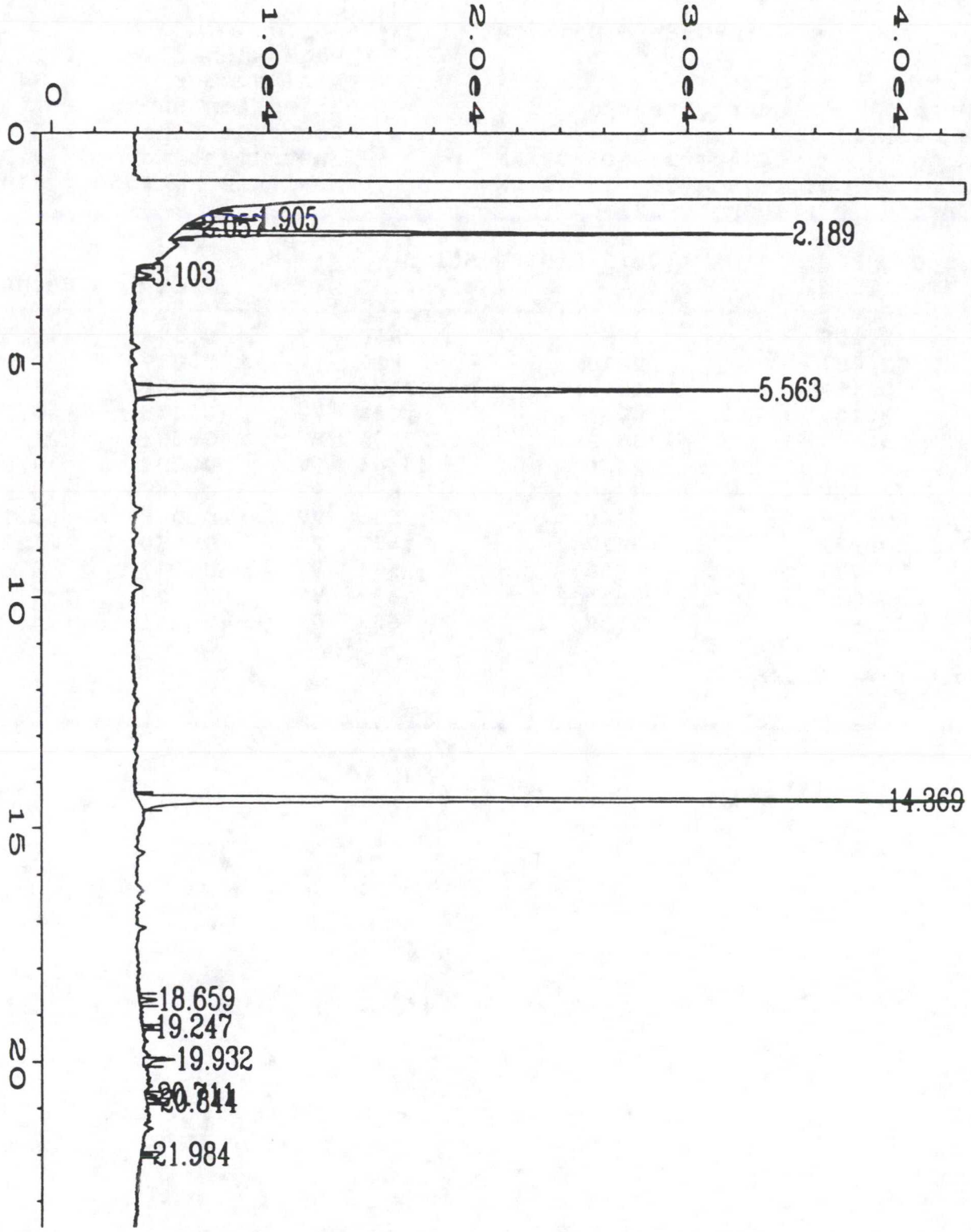
Data File Name : C:\HPCHEM\4\DATA\081595\033F0501.D
Operator :
Instrument : GC#4
Sample Name : surrogate std
Run Time Bar Code:
Acquired on : 16 Aug 95 02:38 AM
Report Created on: 16 Aug 95 03:02 AM
Sample Info : 200ng v-121

Page Number : 1
Vial Number : 33
Injection Number : 1
Sequence Line : 5
Instrument Method: FID.MTH
Analysis Method : FID.MTH

Sig. 1 in C:\HPCHEM\4\DATA\081595\033F0501.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	1.815	3795	710	PV	0.072	0.6162
2	1.912	4458	1124	VV	0.056	0.9753
3	2.060	2006	600	PV	0.047	0.5202
4	2.191	107222	28612	VV	0.058	24.8215
5	3.105	3538	603	PV	0.079	0.5232
6	3.801	4599	655	PV	0.090	0.5678
7	5.311	2757	435	PV	0.083	0.3776
8	5.560	164825	27508	VV	0.092	23.8641
9	7.652	4978	713	PV	0.092	0.6189
10	14.370	124359	22006	PV	0.085	19.0905
11	15.313	5383	1097	PV	0.066	0.9517
12	16.462	6731	884	BV	0.103	0.7673
13	17.424	5730	1131	VV	0.072	0.9815
14	17.853	5148	621	VV	0.103	0.5391
15	18.393	5087	970	VV	0.067	0.8417
16	18.488	4088	1107	VV	0.057	0.9600
17	18.559	6339	1672	VV	0.053	1.4501
18	18.943	4261	1203	VV	0.049	1.0433
19	19.004	2597	793	VV	0.044	0.6876
20	19.204	3327	643	PV	0.066	0.5575
21	19.295	4147	1021	VV	0.056	0.8857
22	19.350	2254	751	VV	0.041	0.6512
23	19.451	6792	2011	VV	0.050	1.7444
24	19.536	2650	758	VV	0.049	0.6574
25	19.845	10072	2389	VV	0.059	2.0729
26	19.936	4093	1524	VV	0.039	1.3217
27	19.982	7208	1861	VV	0.055	1.6144
28	20.315	4724	1007	VV	0.061	0.8737
29	20.407	2884	809	VV	0.049	0.7022
30	20.501	7243	1841	VV	0.055	1.5970
31	20.713	7899	1909	VV	0.059	1.6564
32	20.848	5424	1018	VV	0.070	0.8831
33	21.035	2124	586	VV	0.052	0.5086
34	21.120	2696	814	VV	0.055	0.7065
35	21.266	5392	1949	VV	0.041	1.6909
36	21.414	4121	1063	PV	0.056	0.9224
37	21.792	2903	872	VV	0.047	0.7561

Total height = 115271



Data File Name : C:\HPCHEM\4\DATA\081595\034F0501.D
Operator :
Instrument : GC#4
Sample Name : surrogate std
Run Time Bar Code:
Acquired on : 16 Aug 95 03:08 AM
Report Created on: 16 Aug 95 03:32 AM
Sample Info : ~~400~~ng v-121
200

Page Number : 1
Vial Number : 34
Injection Number : 1
Sequence Line : 5
Instrument Method: FID.MTH
Analysis Method : FID.MTH

Height Percent Report

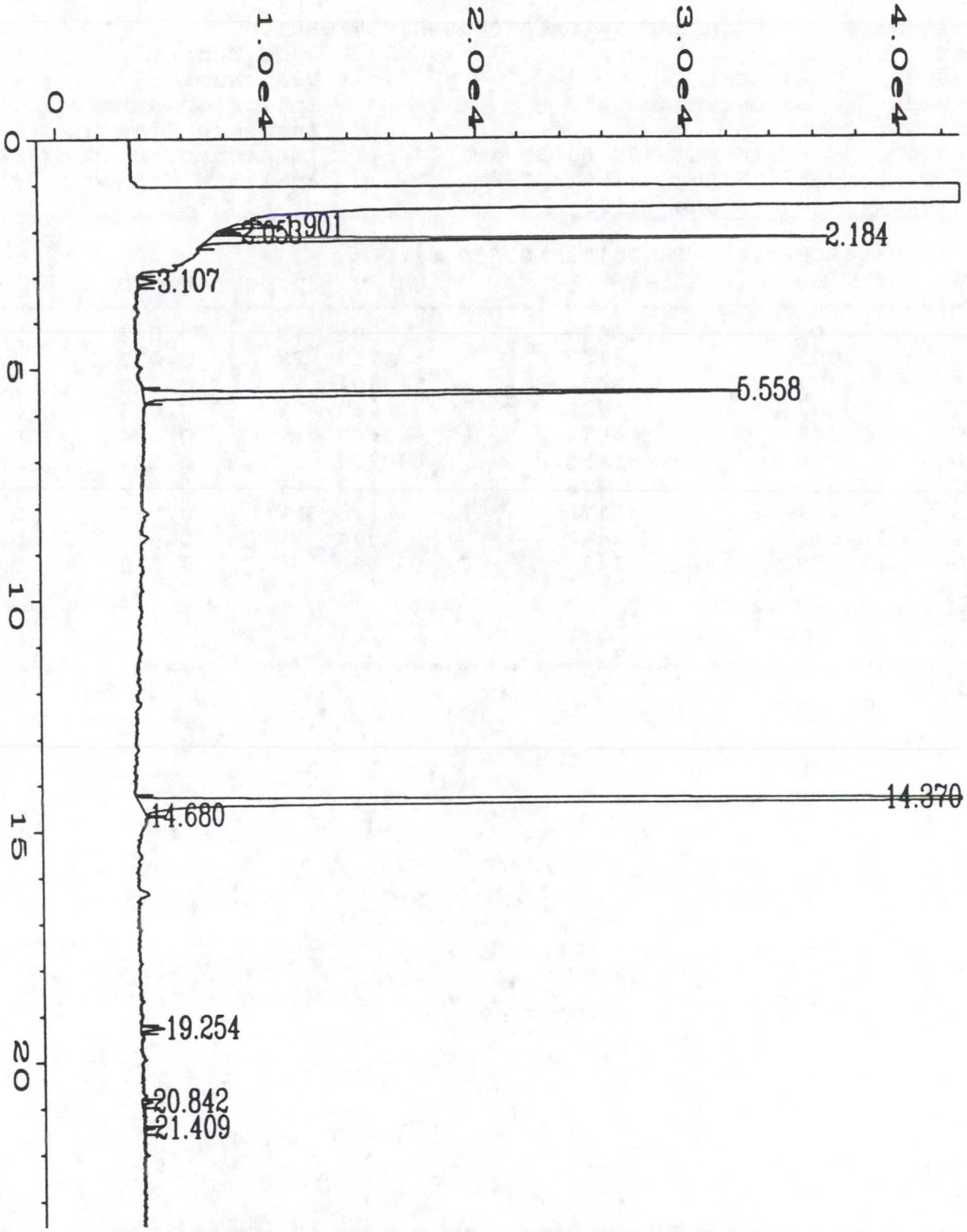
Data File Name : C:\HPCHEM\4\DATA\081595\034F0501.D
Operator :
Instrument : GC#4
Sample Name : surrogate std
Run Time Bar Code:
Acquired on : 16 Aug 95 03:08 AM
Report Created on: 16 Aug 95 03:32 AM
Sample Info : 400ng v-121

Page Number : 1
Vial Number : 34
Injection Number : 1
Sequence Line : 5
Instrument Method: FID.MTH
Analysis Method : FID.MTH

Sig. 1 in C:\HPCHEM\4\DATA\081595\034F0501.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	1.905	19752	2840	BV	0.094	2.5080
2	2.057	2916	816	PV	0.047	0.7204
3	2.189	111392	29371	VV	0.058	25.9399
4	3.103	4061	684	PV	0.075	0.6043
5	5.563	173392	29724	PV	0.091	26.2510
6	14.369	242466	45104	PV	0.083	39.8350
7	18.659	3700	855	PV	0.065	0.7551
8	19.247	1940	545	VV	0.048	0.4811
9	19.932	6412	1497	VV	0.060	1.3224
10	20.711	2035	574	PV	0.047	0.5072
11	20.844	2635	629	VV	0.058	0.5559
12	21.984	1599	588	PV	0.041	0.5197

Total height = 113228



Data File Name : C:\HPCHEM\4\DATA\081595\035F0501.D
Operator :
Instrument : GC#4
Sample Name : surrogate std
Run Time Bar Code:
Acquired on : 16 Aug 95 03:39 AM
Report Created on: 16 Aug 95 04:03 AM
Sample Info : ~~1000~~ng v-121
400

Page Number : 1
Vial Number : 35
Injection Number : 1
Sequence Line : 5
Instrument Method: FID.MTH
Analysis Method : FID.MTH

000060

Height Percent Report

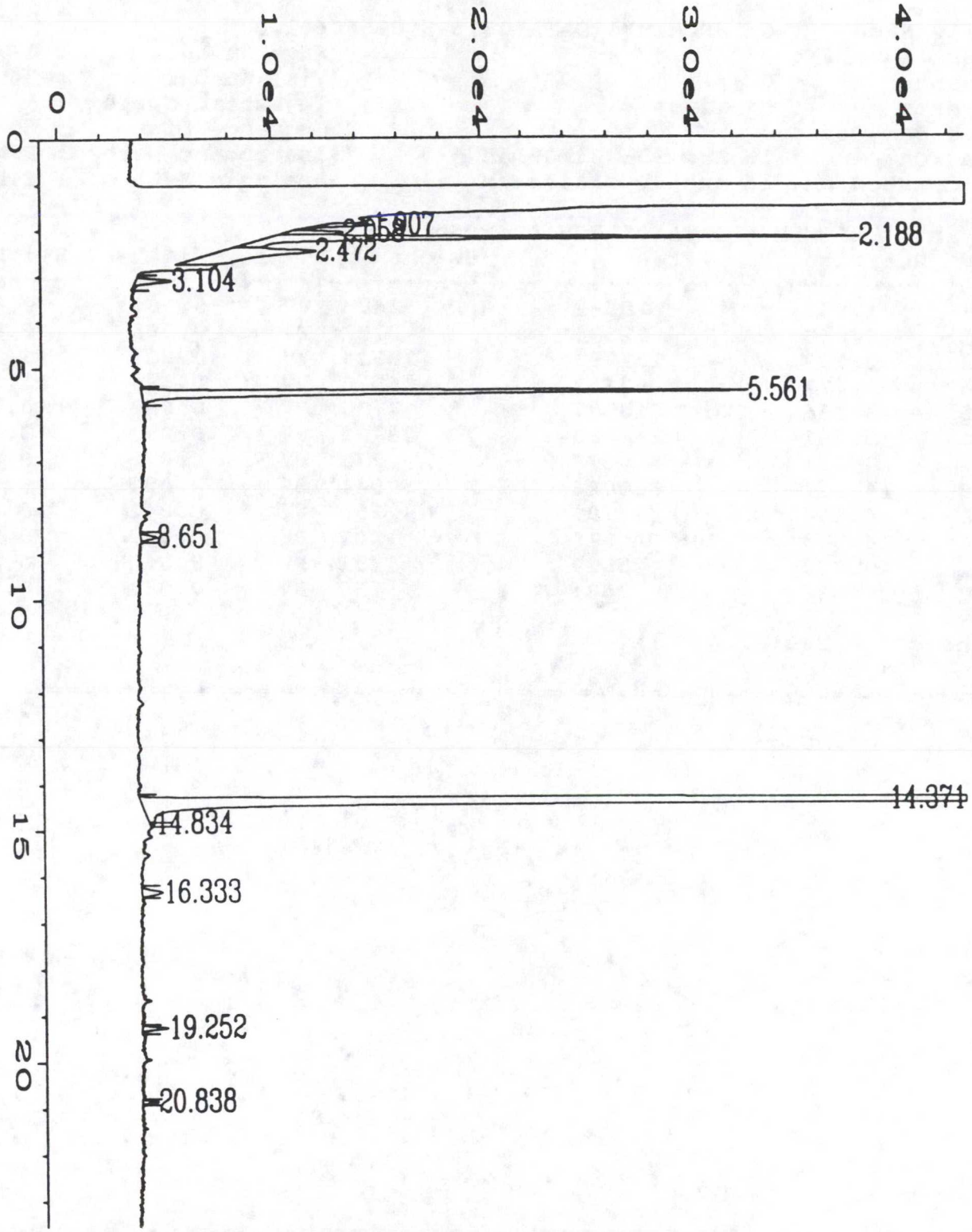
Data File Name : C:\HPCHEM\4\DATA\081595\035F0501.D
Operator :
Instrument : GC#4
Sample Name : surrogate std
Run Time Bar Code:
Acquired on : 16 Aug 95 03:39 AM
Report Created on: 16 Aug 95 04:03 AM
Sample Info : 1000ng v-121

Page Number : 1
Vial Number : 35
Injection Number : 1
Sequence Line : 5
Instrument Method: FID.MTH
Analysis Method : FID.MTH

Sig. 1 in C:\HPCHEM\4\DATA\081595\035F0501.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	1.901	10479	2500	VV	0.062	1.5979
2	2.053	4467	1256	PV	0.053	0.8024
3	2.184	113633	29801	VV	0.058	19.0448
4	3.107	5722	968	PV	0.084	0.6188
5	5.558	166071	28647	PV	0.090	18.3073
6	14.370	481698	90934	PV	0.081	58.1124
7	14.680	75	108	VV	0.012	0.0693
8	19.254	5175	1175	PV	0.063	0.7506
9	20.842	2448	524	VV	0.061	0.3347
10	21.409	1493	566	VV	0.038	0.3619

Total height = 156480



Data File Name : C:\HPCHEM\4\DATA\081595\036F0601.D
Operator :
Instrument : GC#4
Sample Name : ~~di rinse~~ 1000ng v-121
Run Time Bar Code: surrogate std
Acquired on : 16 Aug 95 04:09 AM
Report Created on: 16 Aug 95 11:54 AM

Page Number : 1
Vial Number : 36
Injection Number : 1
Sequence Line : 6
Instrument Method: RINSE.MTH
Analysis Method : FID.MTH

Height Percent Report

Data File Name : C:\HPCHEM\4\DATA\081595\036F0601.D
Operator :
Instrument : GC#4
Sample Name : di rinse
Run Time Bar Code:
Acquired on : 16 Aug 95 04:09 AM
Report Created on: 16 Aug 95 11:54 AM

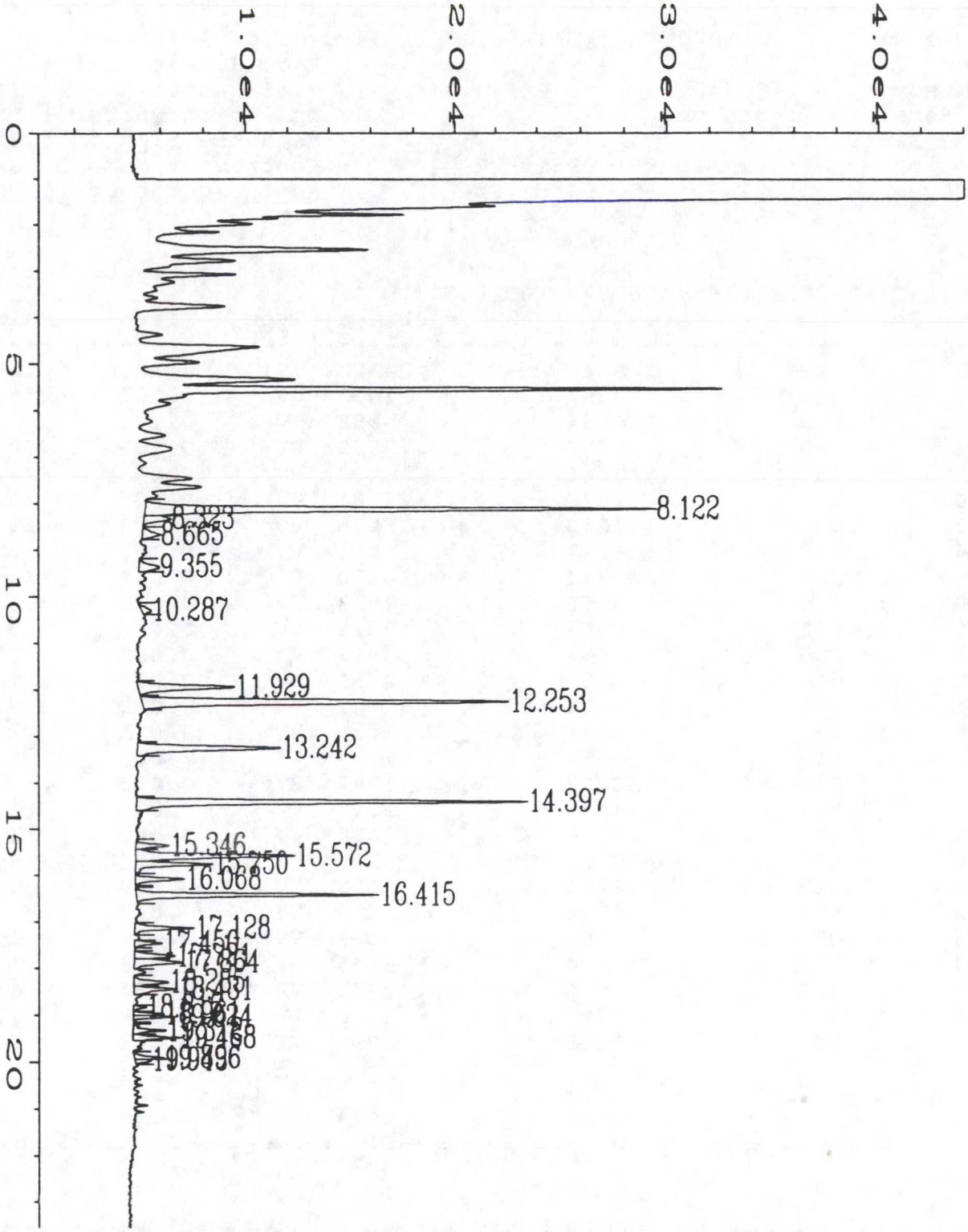
Page Number : 1
Vial Number : 36
Injection Number : 1
Sequence Line : 6
Instrument Method: RINSE.MTH
Analysis Method : FID.MTH

Sig. 1 in C:\HPCHEM\4\DATA\081595\036F0601.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	1.907	10542	2495	VV	0.064	0.7556
2	2.058	12596	2731	PV	0.068	0.8272
3	2.188	127297	28320	VV	0.067	8.5775
4	2.472	62467	4574	VV	0.174	1.3852
5	3.104	10537	1732	PV	0.083	0.5246
6	5.561	167683	28728	PV	0.091	8.7010
7	8.651	4678	772	PV	0.076	0.2339
8	14.371	1340046	257544	BV	0.081	78.0041
9	14.834	791	250	VV	0.042	0.0758
10	16.333	6916	1005	PV	0.089	0.3045
11	19.252	5519	1251	PV	0.060	0.3788
12	20.838	2684	765	BV	0.054	0.2317

Total height = 330167

CONTINUING CALIBRATIONS



Data File Name	: C:\HPCHEM\4\DATA\092295\034F0801.D		
Operator	:	Page Number	: 1
Instrument	: GC#4	Vial Number	: 34
Sample Name	: gas std	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 8
Acquired on	: 22 Sep 95 09:29 PM	Instrument Method:	WA-WATER.MTH
Report Created on:	22 Sep 95 09:53 PM	Analysis Method	: WA-WATER.MTH
Sample Info	: 500 ng v-8j		

Height Percent Report

Data File Name : C:\HPCHEM\4\DATA\092295\034F0801.D
Operator :
Instrument : GC#4
Sample Name : gas std
Run Time Bar Code:
Acquired on : 22 Sep 95 09:29 PM
Report Created on: 22 Sep 95 09:53 PM
Sample Info : 500 ng v-8j

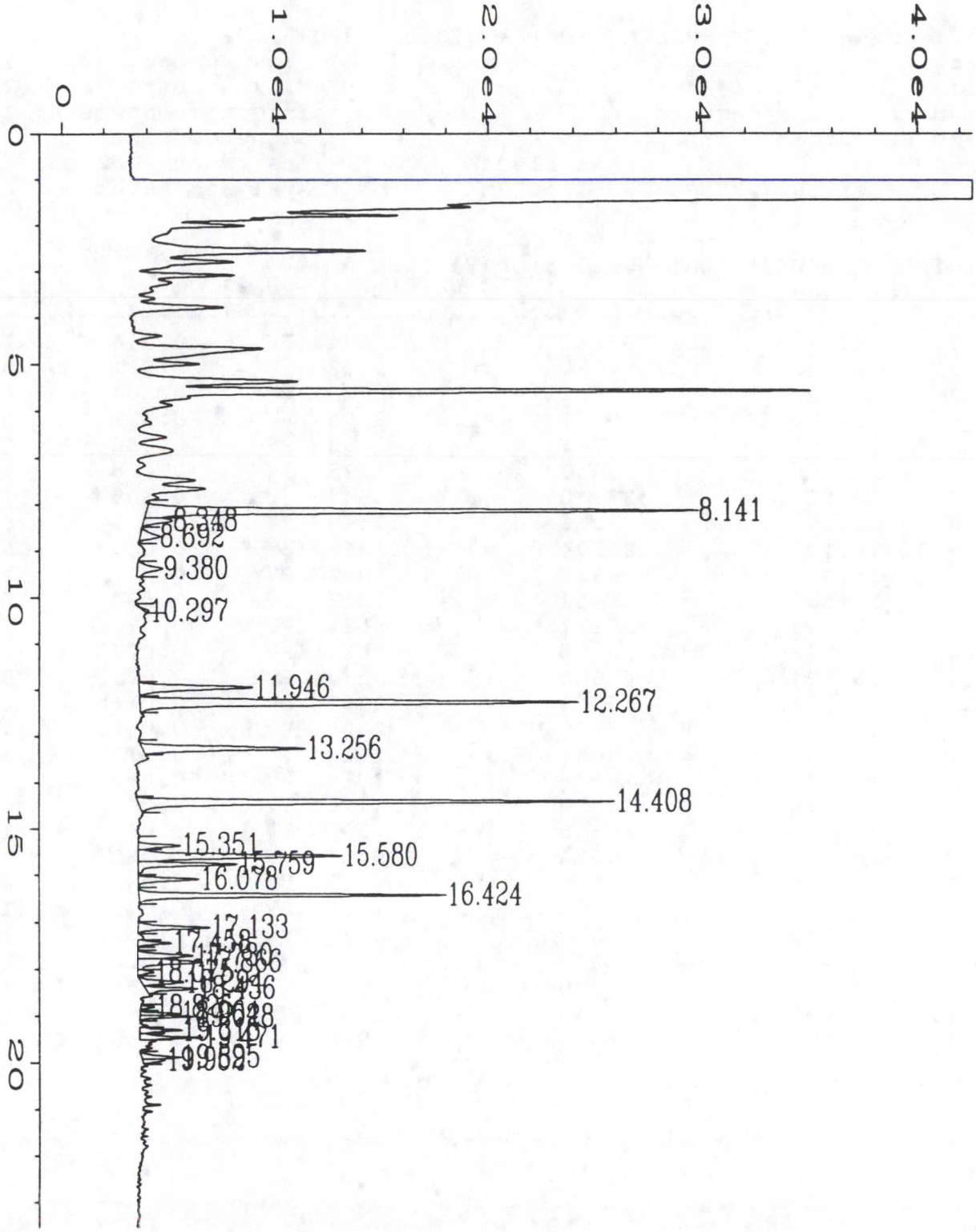
Page Number : 1
Vial Number : 34
Injection Number : 1
Sequence Line : 8
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\092295\034F0801.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	8.122	148343	24323	BV	0.094	19.3687
2	8.323	9552	1333	VV	0.092	1.0612
3	8.665	6554	888	VV	0.101	0.7073
4	9.355	8558	979	PV	0.109	0.7800
5	10.287	3566	492	PV	0.093	0.3921
6	11.929	31999	4584	PV	0.105	3.6504
7	12.253	116243	17575	VV	0.103	13.9954
8	13.242	46127	6846	VV	0.103	5.4516
9	14.397	103291	18870	PV	0.083	15.0263
10	15.346	8358	1633	VV	0.076	1.3002
11	15.572	46663	7624	VV	0.096	6.0710
12	15.750	19692	3682	VV	0.083	2.9320
13	16.068	11754	2357	VV	0.073	1.8773
14	16.415	54233	11647	PV	0.073	9.2744
15	17.128	14334	2836	VV	0.073	2.2581
16	17.450	6034	1373	VV	0.067	1.0932
17	17.721	10437	1987	BV	0.075	1.5823
18	17.864	14885	2365	VV	0.086	1.8835
19	18.285	9299	1688	VV	0.083	1.3441
20	18.431	10930	2106	VV	0.072	1.6774
21	18.815	2249	655	VV	0.049	0.5219
22	18.961	4734	1504	VV	0.047	1.1976
23	19.024	6763	2078	VV	0.050	1.6549
24	19.312	7004	1595	PV	0.063	1.2699
25	19.468	8570	2325	VV	0.054	1.8514
26	19.896	5728	1436	PV	0.058	1.1438
27	19.943	3168	796	VV	0.066	0.6341

Total height = 125577

92 100



Data File Name : C:\HPCHEM\4\DATA\092395\002F0101.D
Operator :
Instrument : GC#4
Sample Name : gas std
Run Time Bar Code:
Acquired on : 23 Sep 95 11:16 AM
Report Created on: 23 Sep 95 11:40 AM
Sample Info : 500 ng V-8j

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Height Percent Report

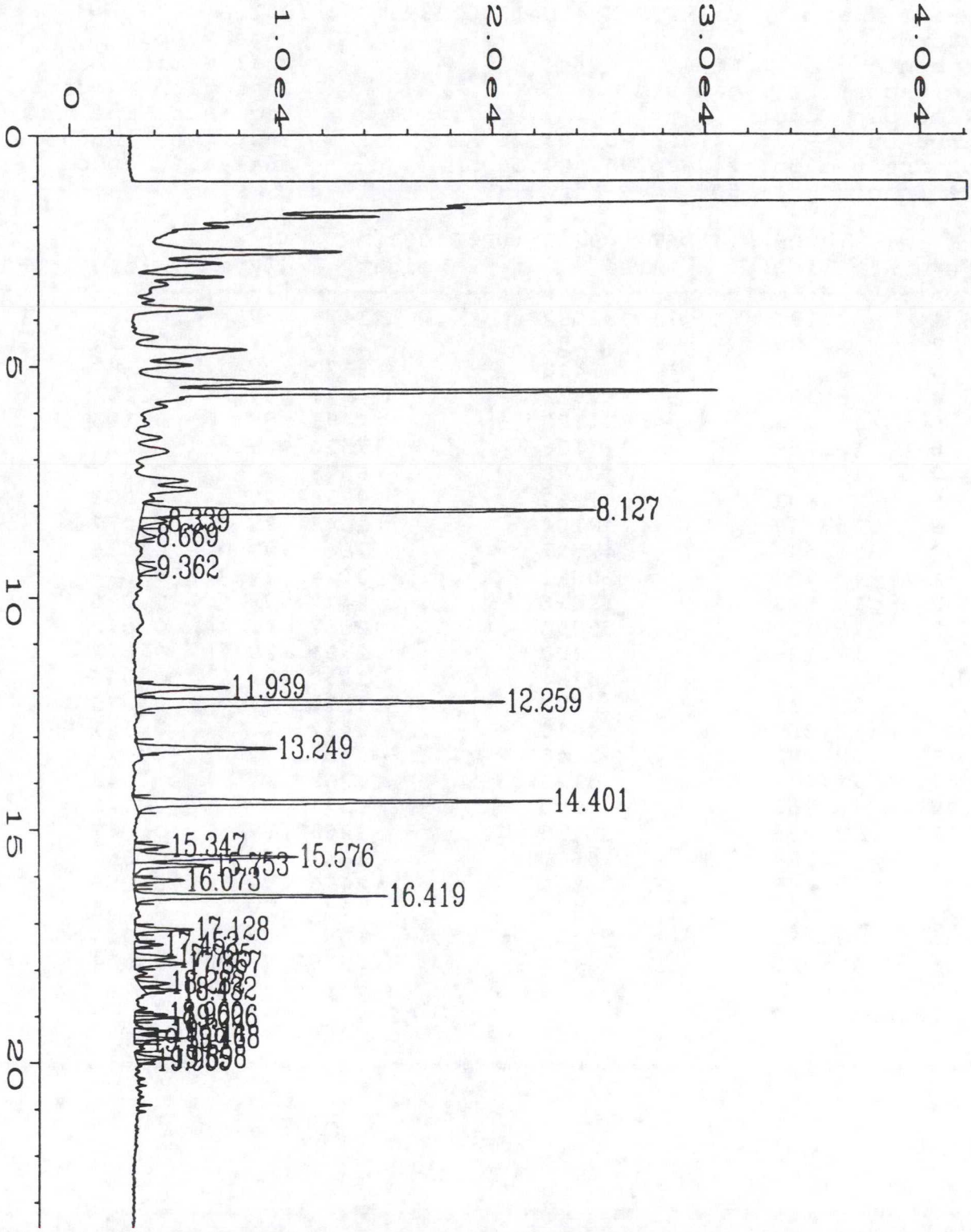
Data File Name : C:\HPCHEM\4\DATA\092395\002F0101.D
Operator :
Instrument : GC#4
Sample Name : gas std
Run Time Bar Code:
Acquired on : 23 Sep 95 11:16 AM
Report Created on: 23 Sep 95 11:40 AM
Sample Info : 500 ng V-8j

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\092395\002F0101.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	8.141	158257	25941	BV	0.094	17.5628
2	8.348	9670	1352	VV	0.091	0.9154
3	8.692	7661	920	PV	0.104	0.6231
4	9.380	10652	1204	VV	0.112	0.8155
5	10.297	786	188	PV	0.059	0.1270
6	11.946	35957	5225	BV	0.106	3.5376
7	12.267	137160	20648	VV	0.105	13.9795
8	13.256	47926	7549	PV	0.099	5.1107
9	14.408	121334	22462	BV	0.084	15.2074
10	15.351	9937	1982	PV	0.077	1.3418
11	15.580	57451	9512	VV	0.094	6.4401
12	15.759	23471	4584	VV	0.078	3.1034
13	16.078	13365	2821	PV	0.071	1.9101
14	16.424	67680	14533	PV	0.071	9.8395
15	17.133	16364	3303	PV	0.076	2.2361
16	17.458	6709	1606	VV	0.062	1.0874
17	17.730	14053	2610	VV	0.077	1.7670
18	17.866	19658	3015	VV	0.098	2.0416
19	18.075	3509	775	VV	0.065	0.5247
20	18.294	10325	1964	PV	0.085	1.3300
21	18.436	9874	2419	VV	0.063	1.6375
22	18.825	2111	649	BV	0.053	0.4393
23	18.964	5500	1886	PV	0.049	1.2769
24	19.028	8530	2647	VV	0.050	1.7922
25	19.315	7476	2015	VV	0.056	1.3644
26	19.471	11280	2952	VV	0.056	1.9988
27	19.895	8044	1851	PV	0.060	1.2535
28	19.952	4108	1088	VV	0.063	0.7366

Total height = 147701



Data File Name	: C:\HPCHEM\4\DATA\092395\034F1001.D		
Operator	:	Page Number	: 1
Instrument	: GC#4	Vial Number	: 34
Sample Name	: gas std	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 10
Acquired on	: 24 Sep 95 03:26 AM	Instrument Method	: WA-WATER.MTH
Report Created on	: 24 Sep 95 03:50 AM	Analysis Method	: WA-WATER.MTH
Sample Info	: 500 ng v-8j		

Height Percent Report

Data File Name : C:\HPCHEM\4\DATA\092395\034F1001.D
Operator :
Instrument : GC#4
Sample Name : gas std
Run Time Bar Code:
Acquired on : 24 Sep 95 03:26 AM
Report Created on: 24 Sep 95 03:50 AM
Sample Info : 500 ng v-8j

Page Number : 1
Vial Number : 34
Injection Number : 1
Sequence Line : 10
Instrument Method: WA-WATER.MTH
Analysis Method : WA-WATER.MTH

Sig. 1 in C:\HPCHEM\4\DATA\092395\034F1001.D

Pk#	Ret Time	Area	Height	Type	Width	Height %
1	8.127	132082	21476	BV	0.094	17.3515
2	8.339	9256	1271	VV	0.094	1.0273
3	8.669	7418	872	PV	0.107	0.7042
4	9.362	6622	874	BV	0.106	0.7061
5	11.939	31220	4491	PV	0.103	3.6285
6	12.259	117486	17520	VV	0.105	14.1554
7	13.249	41788	6579	PV	0.097	5.3154
8	14.401	107962	19838	PV	0.083	16.0285
9	15.347	8104	1648	PV	0.077	1.3312
10	15.576	47517	7845	VV	0.094	6.3387
11	15.753	20012	3774	VV	0.078	3.0495
12	16.073	11616	2412	VV	0.076	1.9490
13	16.419	55556	12057	PV	0.072	9.7412
14	17.128	13400	2791	PV	0.072	2.2552
15	17.452	5784	1358	VV	0.066	1.0970
16	17.725	10922	1975	PV	0.079	1.5957
17	17.867	14610	2437	VV	0.081	1.9687
18	18.282	7448	1484	PV	0.073	1.1993
19	18.432	6128	1769	PV	0.049	1.4291
20	18.960	4900	1571	PV	0.048	1.2690
21	19.026	7175	2263	VV	0.047	1.8282
22	19.314	6600	1697	VV	0.058	1.3709
23	19.468	9008	2456	VV	0.055	1.9839
24	19.539	2828	746	VV	0.055	0.6031
25	19.898	6751	1667	PV	0.060	1.3466
26	19.955	3495	900	VV	0.054	0.7269

Total height = 123770

89 105%

000070

RAW DATA

Volatile Organic Standard Preparation Log

Analyte / Standard	Supplier/ Source	Date Received	Lot #	Initial Concentration	Amount Diluted	Volume Prepared	Final Concentration	Solvent	Date Prepared	Expiration Date	Lab Code	Preparer's Initials
n-Pentane stock std	Chemservice	11/17/94	129-24A	neat	63mg	10mL	6300ng/µl	meoh	8/4/95	2/4/96	V-8a	RL
Ethyl ether stock std	↓	↓	136-79A	↓	63mg	↓	6300ng/µl	↓	↓	↓	V-8b	↓
n-Hexane stock std	↓	↓	126-67A	↓	63mg	↓	6300ng/µl	↓	↓	↓	V-8c	↓
Freon 113 stock std.	↓	↓	120-16A	↓	67mg	↓	6700ng/µl	↓	↓	↓	V-8d	↓
Ethyl acetate stock std	↓	↓	136-87A	↓	63mg	↓	6300ng/µl	↓	↓	↓	V-8e	↓
Cyclohexane stock std	↓	↓	129-121A	↓	58mg	↓	5800ng/µl	↓	↓	↓	V-8f	↓
iso-Octane stock std.	↓	↓	120-9B	↓	61mg	↓	6100ng/µl	↓	↓	↓	V-8g	↓
Tetrahydrofuran stock std.	↓	↓	126-149A	↓	130mg	↓	13,000ng/µl	↓	↓	↓	V-8h	↓
Industrial solvents calibration std.	—	—	—	see multi-analyte sheet						—	V-8i	↓
Gasoline Calibration STD	V-5aa	—	—	2500 ng/ml	200 ml	25mL	20 ng/ml	MeOH	8/15/95	2/15/96	V-8j	RH
1,2,3 TFB / 4-BFB Water Insto / Surr.	V-12m V-12K	—	—	14,200 ng/µL 101,000 ng/µL	70.4 µL 9.9 µL	100mL	10 ng/µL	MEOH	8/22/95	2/22/96	V-8K	BC
4-BromoFluoroBenzene Soil Surrogate	V-12K	—	—	101,000 ng/µL	990 µL	50mL	2000 ng/µL	MEOH	8/23/95	2/23/96	V-8L	BC
8260 mix stock std	Ultra	7/19/94	H-0202	2000 ng/µl	—	—	2000ng/µl	meoh	8/31/95	2/28/96	V-8m	RL
carbon disulfide stock std	↓	8/8/95	F-0106	5000ng/µl	—	—	5000ng/µl	↓	↓	↓	V-8n	↓
Ketones mix stock std	↓	8/14/95	J-0960	10,000ng/µl	—	—	10,000ng/µl	↓	↓	↓	V-8o	↓
VOC calibration std (low level)	V-8m V-8n V-8o	—	—	2000 5000 10,000 ng/µl	5 2 5 µl	2mL	5 5 25 ng/µl	↓	↓	↓	V-8p	↓

000072

9-22-95

1	di blank								31	✓
									33	✓
2	gas std		500 ng v-8j						34	✓
3	B509337-02ms	r1	50 ng v-7e				9/21-1		35	✓
4	di rinse								36	✓
5	B509337-02msD	r1	50 ng v-7e				9/21-1		37	✓
6	B509345-01 r1		SEA				9/21-16		38	✓
7	-02 r1		↓				↓		39	✓
8	B509239-01 r1		ALTA				9/21-16		40	✓
9	B509345-01dup	r1					9/21-16		41	✓
10	B509239-02 r1		ALTA						42	✓
11	-03 r1		↓				↓		43	✓

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		<20	92	<0.40	→	→	→	→	95
		92	100	—	—	—	—	—	—
		—	—	11.5	10.4	9.9	19.3	9.5	109
		<20	99	<0.40	→	→	→	→	106
		—	—	11.2	10.2	10.0	19.8	9.8	108
		<20	102	4.5	<0.40	→	0.84	<0.40	103
		<20	109	<0.40	→	→	→	→	105
		<20	111	<0.40	→	→	→	→	107
		25	106	4.3	<0.40	→	0.41	<0.40	103
		<20	103	<0.40	→	→	→	→	109
		<20	101	<0.40	0.57	<0.40	0.35	→	109

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	SAMPLE	CLIENT/PROJ	MAT	AMT	BATCH	METH	FILE	OK	RES/HOTS
	9-22-95 cont								
5	8020 std	25 ng v-6a	W	5ml		WA-W	47		
	-TR-								
	9-23-95								
	di blank		W	5ml		WA-W	01	✓	
	gas std	500 ng v-8j					02	✓	
	8020 std	50 ng v-6a					03	✓	
	B509239-05 r1	ALTA			9/21-1b		04	✓	
	-06 r1	↓			↓		05	✓	
	B509321-04 r1	PEG	S	50µl	9/22-1a	WA-S	06	✓	
	B509350-01	EMCON	W	1ml	9/23-1a	WA-W	07		100µl 9/23
	-02			5ml			08	✓	
	-02ms						09	✓	
0	-02msd						10	✓	
1	-03			25µl			11	✓	
2	-04			250µl			12		2.5ml 9/23
3	-05			50µl			13		5ml 9/23
4	-06			1ml			14		5ml 9/23
5	di rinse			5ml			15		c.o.
	di blank						17	✓	
2	gas std	500 ng v-8j					18		
3	B509350-07	EMCON		250µl	9/23-1a		19		5ml 9/23
4	-08			5ml			20	✓	
5	-09						21	✓	
	di rinse						22	✓	
7	↓						23	✓	
8	B509350-10	EMCON		1ml	9/23-1a		24		25µl 9/25
9	B509350-01 dup			100µl			25	✓	
10	-04 r1			2.5ml			26	✓	
11	-05 r1			5ml			27	✓	
12	-06 r1			↓			28		2.5ml 9/25
3	B509269-01	PEG		5ml	9/23-1b		29	✓	
4	-02	↓			↓		30	✓	
5	di rinse						31	✓	
	di blank						33		

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UNITS	THC	FID S%	B	T	E	M/P	O	PID S%	% S
µg/L	—	—	5.5	5.3	5.4	12.5	5.2	113	
µg/L	<20	115	<0.40	→	→	→	→	106	
	108	119	—	—	—	—	—	—	
	—	—	5.1	4.9	5.0	9.8	4.8	107	
	<20	109	<0.40	→	→	→	→	103	
	<20	112	<0.40	→	→	0.675	<0.40	104	
mg/kg	56.4	115	<0.040	0.133	0.138	0.745	0.412	106	
µg/L	19,000	S-2	~3000	200	270	~850	420	S-2	
	<20	113	<0.40	→	→	→	→	105	
	—	—	11.2	10.0	9.8	19.3	9.5	108	
	—	—	11.2	9.9	9.5	18.5	9.2	106	
	43,000	111	14,000	2600	1700	6100	1600	108	
	1100	108	97	11	<8.0	18	<8.0	107	
	1200	110	~33	~8.3	~32	74	~19	105	
	83	104	~0.69	~1.3	<2.0	~0.87	<2.0	106	
	120	98	23	<0.40	1.8	0.54	<0.40	111	
	<20	89	<0.40	→	→	→	→	96	
	84	94	—	—	—	—	—	—	
	980	137	~6.7	~3.9	33	11	~4.3	124	
	51	99	<0.40	→	→	→	→	104	
	<20	103	<0.40	→	→	→	→	106	
	<20	98	<0.40	→	→	→	→	103	
	<20	98	<0.40	→	→	→	→	102	
	43,000	S-2	~9900	~2300	~1600	~4800	~1500	S-2	
	14,000	107	3100	190	230	740	370	110	
	1300	S-2	87	11	5.5	19	3.0	S-2	
	1400	S-2	27	6.0	33	82	20	S-2	
	510	138	91	0.91	7.0	0.96	0.72	123	
	<20	106	<0.40	→	→	→	→	105	
	<20	107	<0.40	→	→	→	→	109	
	<20	103	<0.40	→	→	→	→	106	
	<20	101	<0.40	→	→	→	→	105	

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	SAMPLE	CLIENT/PROJ	MAT	AMT	BATCH	METH	FILE	OK	RESHOTS
	9-23-95 cont								
1 L 2	gas std	500 ng v-8j	W	5ml		WA-W	34	✓	
1 3	BS09269-03	PEG			9/23-16		35		1ml 9/25
1 4	-03dup						36		
5									

000077

UNITS	THC	FID S%	B	T	E	m/p	O	PID S%	%
µg/L	89	105	—	—	—	—	—	—	—
	47	106	~350	4.1	3.0	1.6	0.72	106	
	46	106	~340	4.1	2.9	1.6	0.70	108	
	[illegible]	[illegible]	[illegible]					107	