



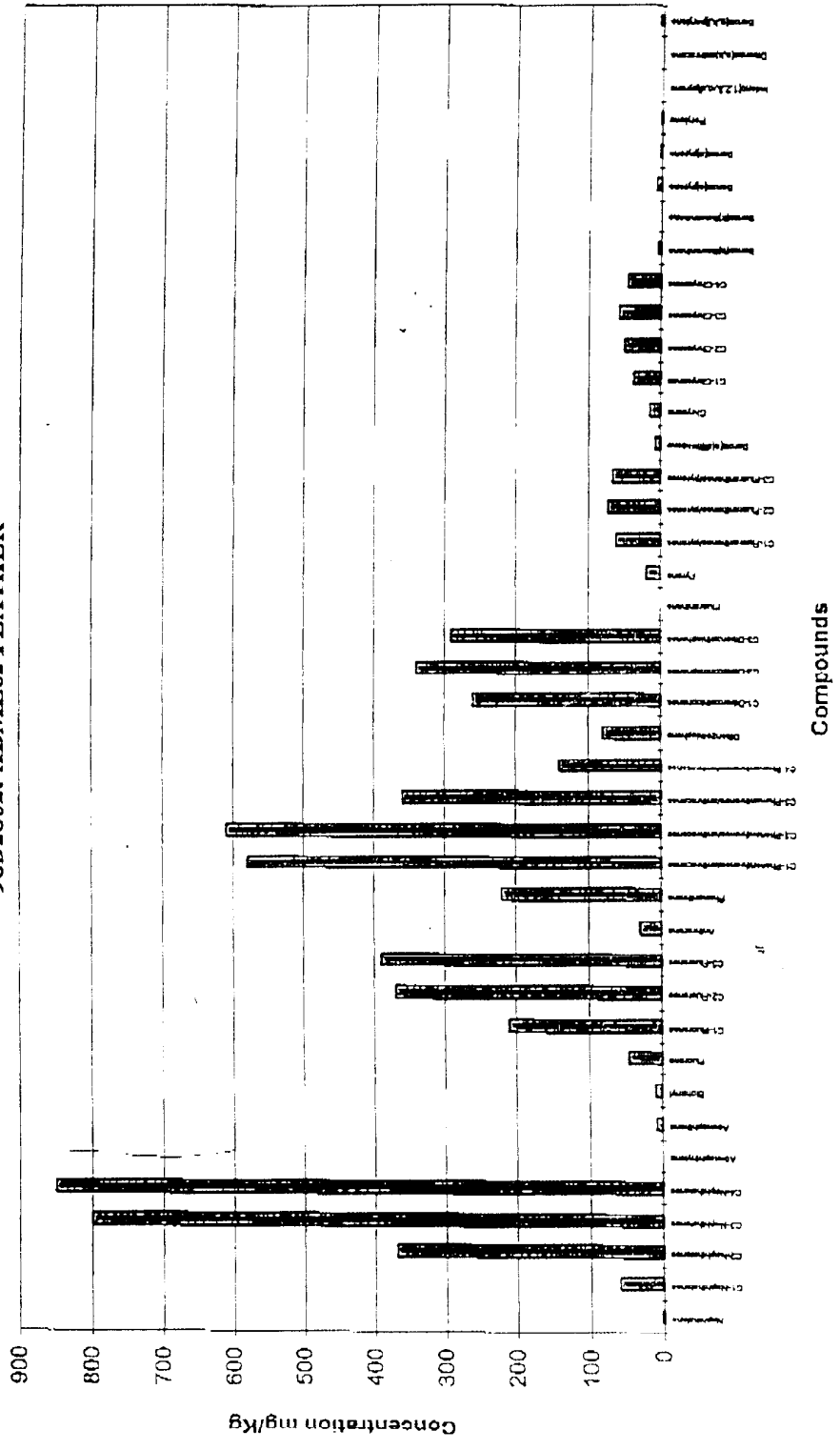
DRAFT

Environmental Monitoring and Analysis

DX8259.D

Analyte Profile Histogram

"98D2802: KBML02 FEATHER"



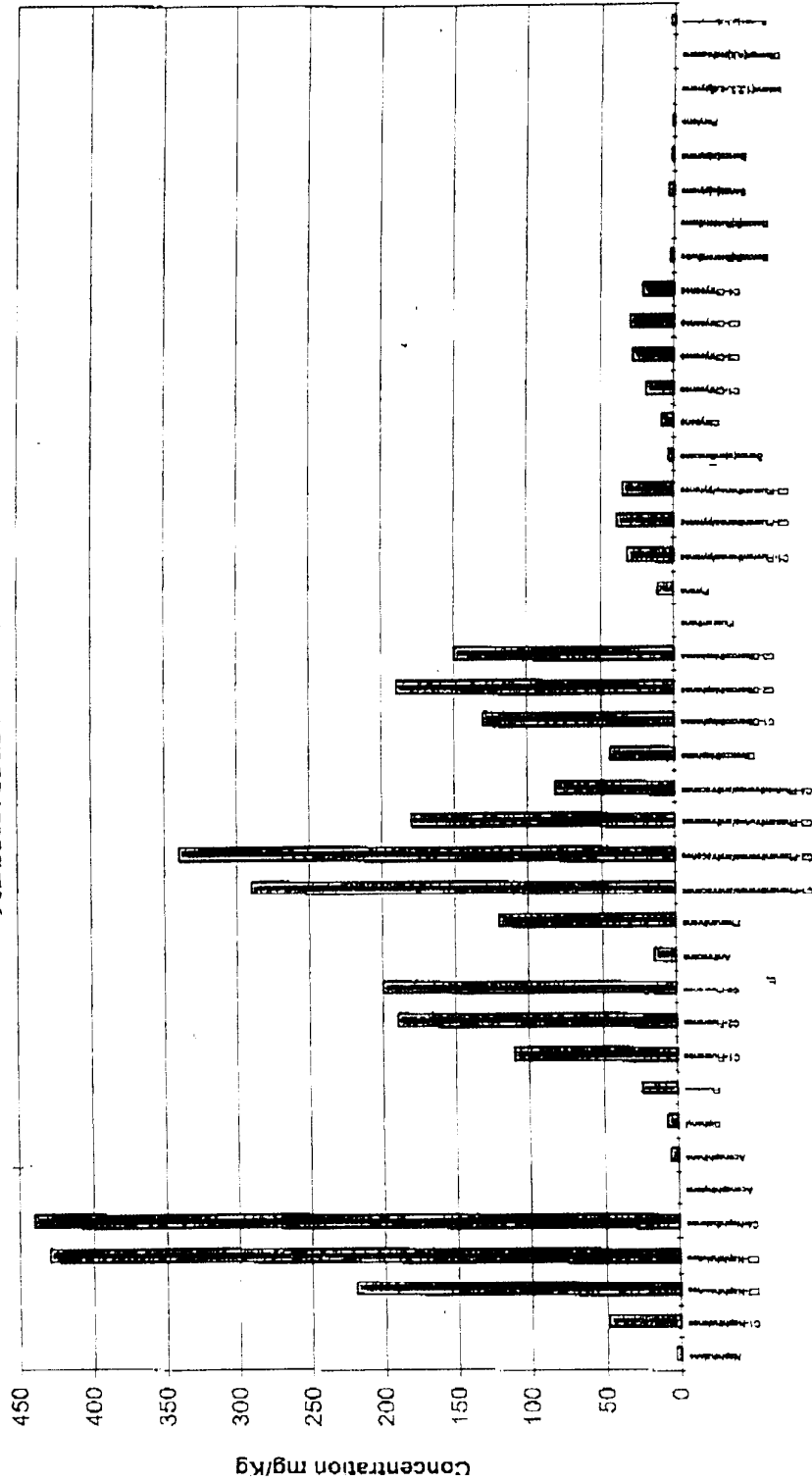
Arthur D. Little

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Environmental Monitoring and Analysis

Analyte Profile Histogram

"98D2803: SPM HOSE002 OIL"



Arthur D. Little

Compounds

DX8260.D



Arthur D. Little  
Environmental Monitoring and Analysis Unit

**DRAFT**

Project Title : Tesoro Hawaii Corp.  
Data Package: 1321  
Data Table: S/T - Main - Surrogate Corrected

Field ID	North Slope Crude	Procedural Blank	Blank Spike	KBCJ02
Lab ID	BK81	BV-S-87PB	BV-S-88BS	9802796
Lab Batch	B0143	B0143	B0143	B0143
File	DX8252.D	DX8253.D	DX8254.D	DX8255.D
Sample Type	QC	QC	QC	SAMP
Weight Basis	OIL	OIL	OIL	OIL
Matrix	OIL	OIL	OIL	TAR BALL
Sample Size	5.04 mg	10 mg	10 mg	13 mg
Associated Blank	NA	NA	BV-S-87PB	BV-S-87PB
Field Date	NA	NA	NA	09/07/98
Extract Date	NA	09/10/98	09/10/98	09/10/98
Analysis Date	09/12/98	09/12/98	09/12/98	09/12/98
Min Reporting Limit	5	10	10	7.7
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg
T4-C23Dikterpane	53	ND	ND	46
S4-Diacholestane	49	ND	ND	40
S5-Diacholestane	29	ND	ND	26
T9-C29Tricyclitriterpane	21	ND	ND	18
T10-C28Tricyclitriterpane	18	ND	ND	15
T11-Trisnorhopane(TS)	31	ND	ND	25
T12-Trisnorhopane(TM)	35	ND	ND	33
S24-Methylcholestane	29	ND	ND	25
S25-Ethylcholestane	43	ND	ND	33
S28-Ethylcholestane	34	ND	ND	36
T15-Norhopane	100	ND	ND	92
T18-Oleanane	ND	ND	ND	ND
T19-Hopane	140	ND	ND	120
I21-Homohopane	55	ND	ND	45
T22-Homohopane	37	ND	ND	31
%5B(H)-Cholane	101	86	92	111

Arthur D. Little  
Environmental Monitoring and Analysis Unit

Project Title : Tesoro Hawaii Corp.  
Data Package: 1321  
Data Table: S/T - Main - Surrogate Corrected

**DRAFT**

Field ID	KBCJ04	KBML01	KBML02	SPM HOSE002
Lab ID	98D2798	98D2801	98D2802	98D2803
Lab Batch	B0143	B0143	B0143	B0143
File	DX8256.D	DX8257.D	DX8259.D	DX8260.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Weight Basis	OIL	OIL	OIL	OIL
Matrix	FEATHER	SEDIMENT	FEATHER	OIL
Sample Size	13.9 mg	10.2 mg	13.4 mg	10.5 mg
Associated Blank	BV-S-87PB	BV-S-87PB	BV-S-87PB	BV-S-87PB
Field Date	08/07/98	09/05/98	08/06/98	08/26/98
Extract Date	09/10/98	09/10/98	09/10/98	09/10/98
Analysis Date	09/12/98	09/12/98	09/12/98	09/12/98
Min Reporting Limit	7.2	9.8	7.5	9.5
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg
T4-C23Diterpane	15	16	11	8.8 J
S4-Dicholestane	10	9.1 J	8	4.2 J
S5-Dicholestane	7.8	5 J	3.5 J	3.2 J
T9-C29Tricyclitriterpane	6.4 J	6.5 J	3.7 J	2 J
T10-C29Tricyclitriterpane	6.6 J	5.5 J	4.7 J	2.4 J
T11-Trisnorhopane(TS)	14	12	9.2	7.2 J
T12-Trisnorhopane(TM)	26	25	20	13
S24-Methylcholestane	11	13	8.4	4.8 J
S25-Ethylcholestane	14	13	9.3	6.7 J
S28-Ethylcholestane	13	18	8.0	9.1 J
T15-Norhopane	64	61	44	29
T18-Cleanane	ND	ND	ND	ND
T19-Hopane	78	65	54	35
T21-Homohopane	20	27	19	13
T22-Homohopane	20	21	16	10
%5B(H)-Cholane	100	99	134 &	110

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Environmental Monitoring and Analysis Unit

# DRAFT

Project Title : Tesoro Hawaii Corp.  
Data Package: 1321  
Data Table: S/T - Main - Surrogate Corrected

Field ID	SPM HOSE001
Lab ID	9802804
Lab Batch	B0143
File	DX0261.D
Sample Type	SAMP
Weight Basis	OIL
Matrix	OIL
Sample Size	10.1 mg
Associated Blank	BV-S-87PB
Field Date	08/31/98
Extract Date	09/10/98
Analysis Date	09/12/98
Min Reporting Limit	9.9
Units	mg/Kg
T4-C23Diterpane	15
S4-Diacholestane	9.9
S5-Diacholestane	7.4 J
T9-C29Tricyclictriterpane	4.2 J
T10-C29Tricyclictriterpane	5.2 J
T11-Trisnorhopane(TS)	10
T12-Trisnorhopane(TM)	24
S24-Methylcholestane	9.8 J
S25-Ethylcholestane	10
S28-Ethylcholestane	11
T15-Norhopane	50
T18-Oleanane	ND
T19-Hopane	54
I21-Homohopane	23
T22-Homohopane	17
%5B(H)-Cholane	101

Arthur D. Little  
Environmental Monitoring and Analysis Unit

Project Title : Tesoro Hawaii Corp.  
Data Package: 1321  
Data Table: S/T - NSC - Surrogate Corrected

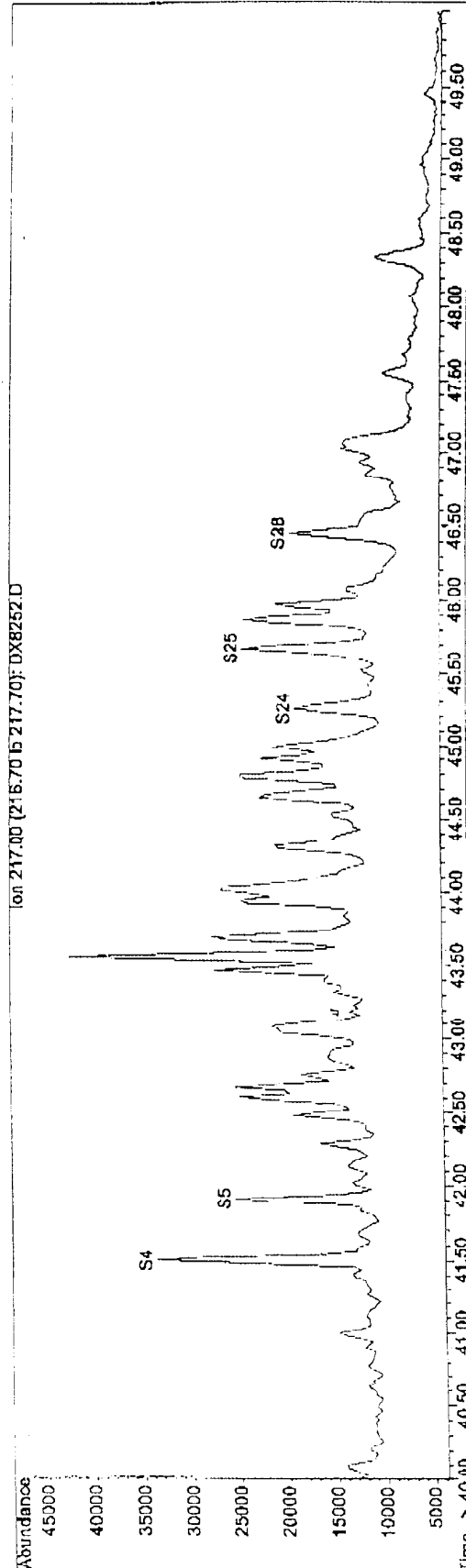
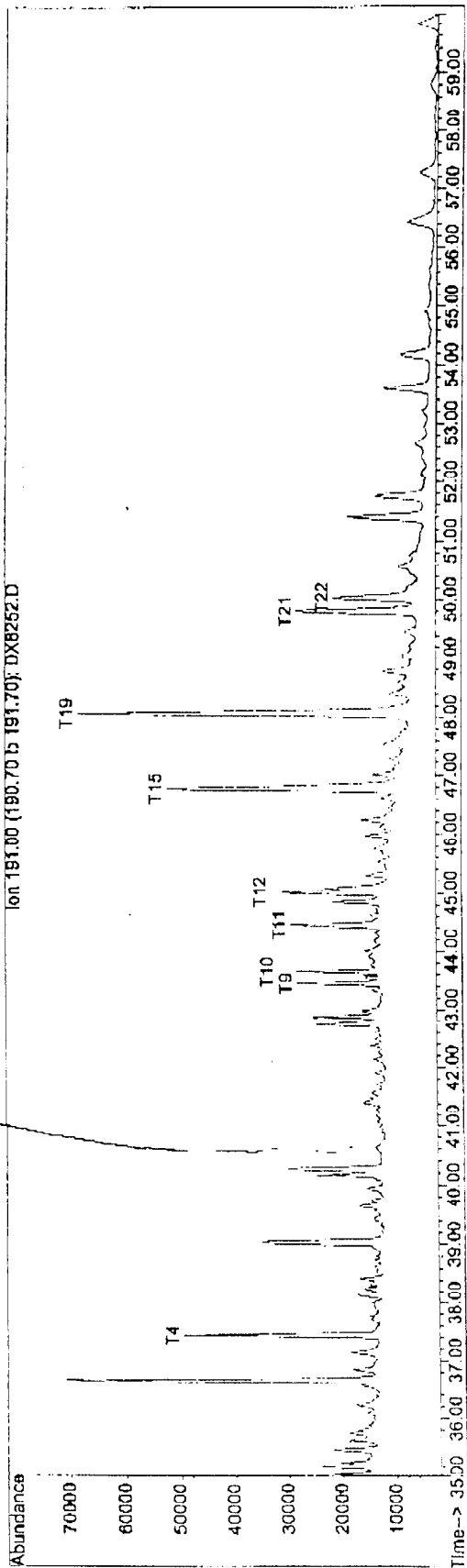
# DRAFT

Field ID	North Slope Crude			
Lab ID	BKB1			
Lab Batch	NA			
File	DX8252.D			
Sample Type	SAMP			
Weight Basis	DRY			
Matrix	NA			
Sample Size	5.04 mg			
Associated Blank	NA			
Field Date	NA			
Extract Date	NA			
Analysis Date	09/12/98			
Min Reporting Limit	5			
Units	mg/Kg	T	%D	Q
T4-C23Diterpane	53	46	15	
S4-Diacholestane	49	60	-2	
S5-Diacholestane	29	29	0	
T9-C29Tricyclitriterpane	21	16	31	
T10-C29Tricyclitriterpane	18	18	0	
T11-Trisnorhopane(TS)	31	26	19	
T12-Trisnorhopane(TM)	35	32	9.4	
S24-Methylcholestane	29	32	-9.4	
S25-Ethylcholestane	43	53	-19	
S28-Ethylcholestane	34	40	-15	
T15-Norhopane	100	96	4.2	
T18-Oleanane	ND			
T18-Hopane	140	128	9.4	
T21-Homohopane	55	53	3.8	
T22-Homohopane	37	38	-2.5	
%SB(H)-Cholane	101			



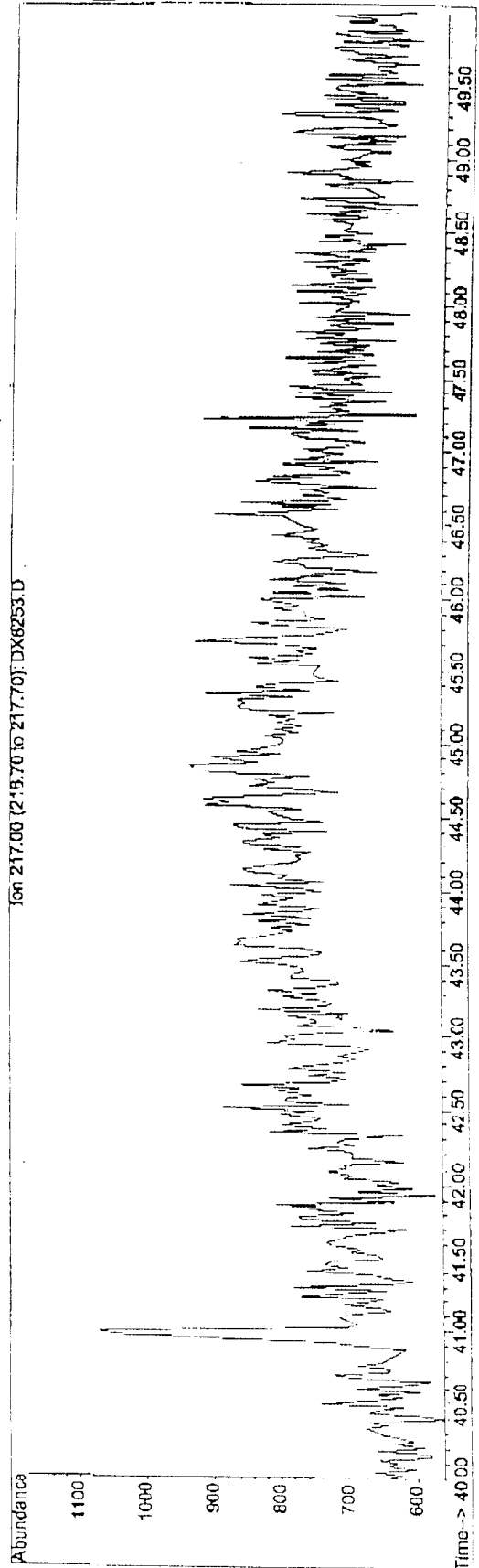
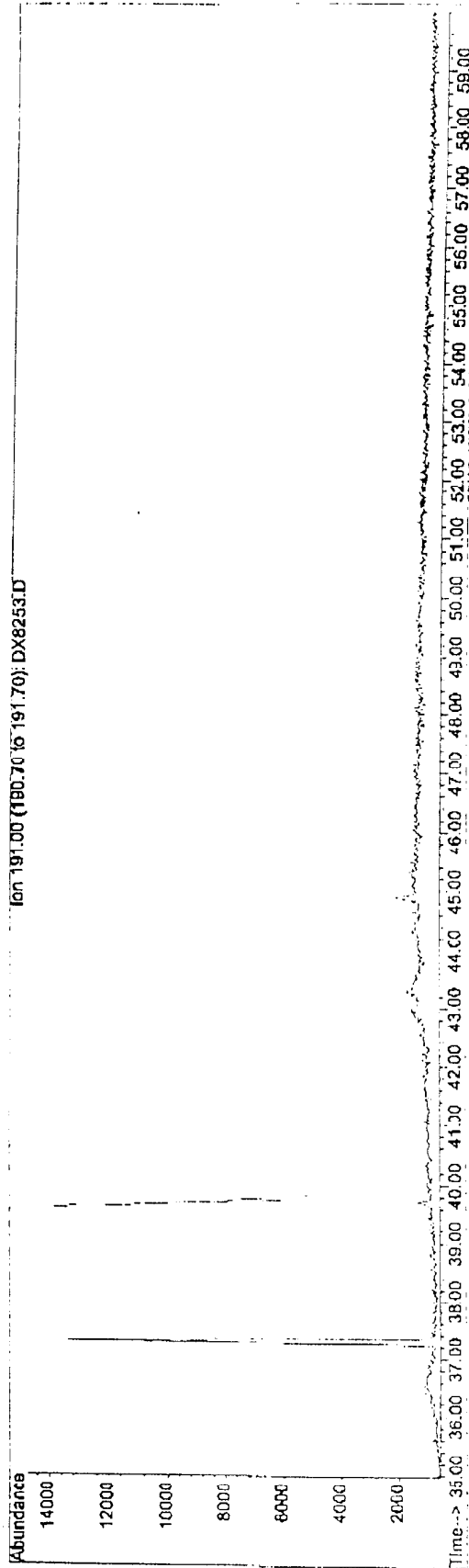
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File : C:\HPCHEM\1\SQX658\DX8252.D  
 Operator :  
 Acquired : 12 Sep 98 6:33 am using AcqMethod PA4SIM  
 Instrument : GC/MS#4  
 Sample Name: BK81  
 Misc Info : North Slope Crude  
 Vial Number: 1



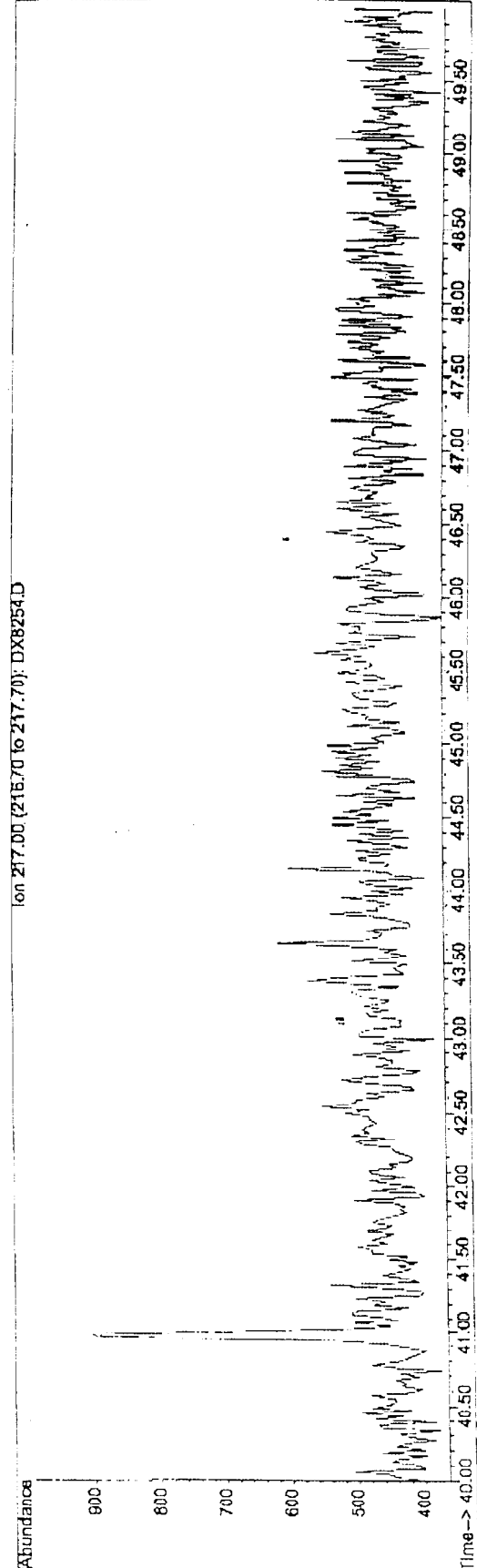
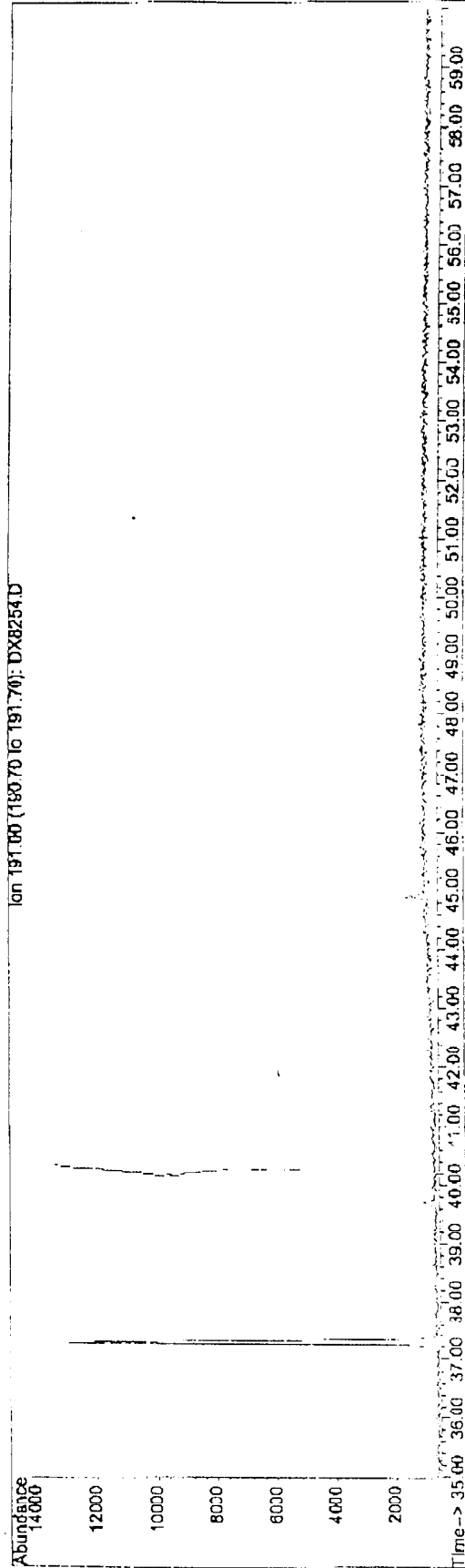
DRAFT

File : C:\HPCHEM\1\SQX658\DX8253.D  
Operator :  
Acquired : 12 Sep 98 7:42 am using AcqMethod PA4SIM  
Instrument : GC/MS#  
Sample Name: BV-S-87PB  
Misc Info : Procedural Blank  
Vial Number: 1



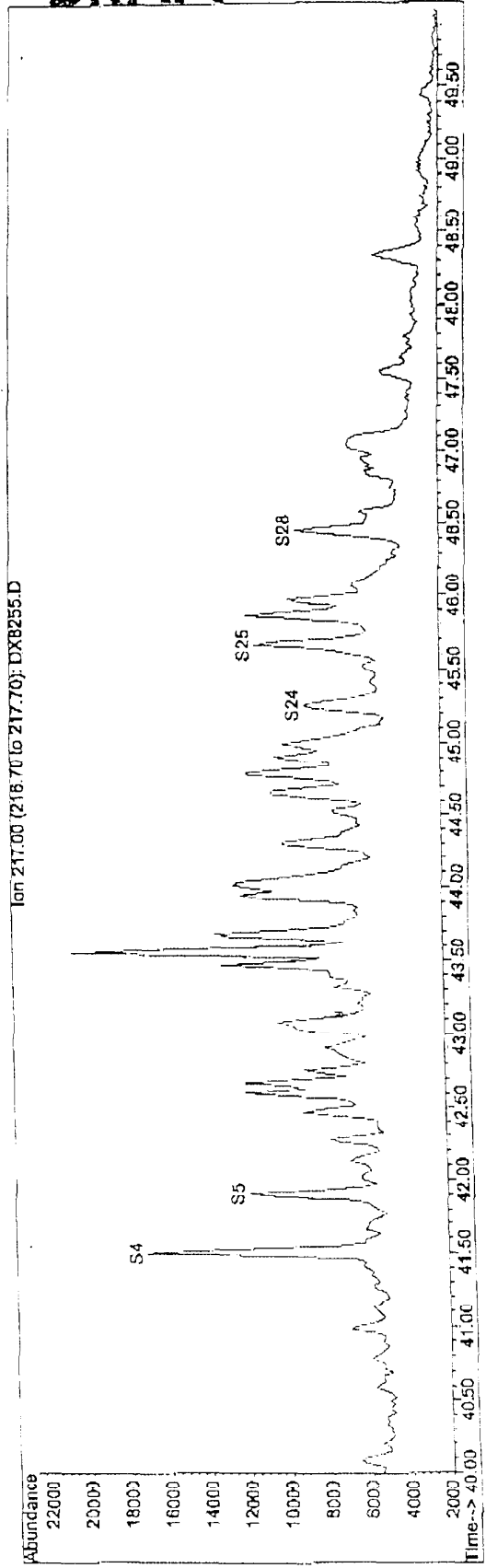
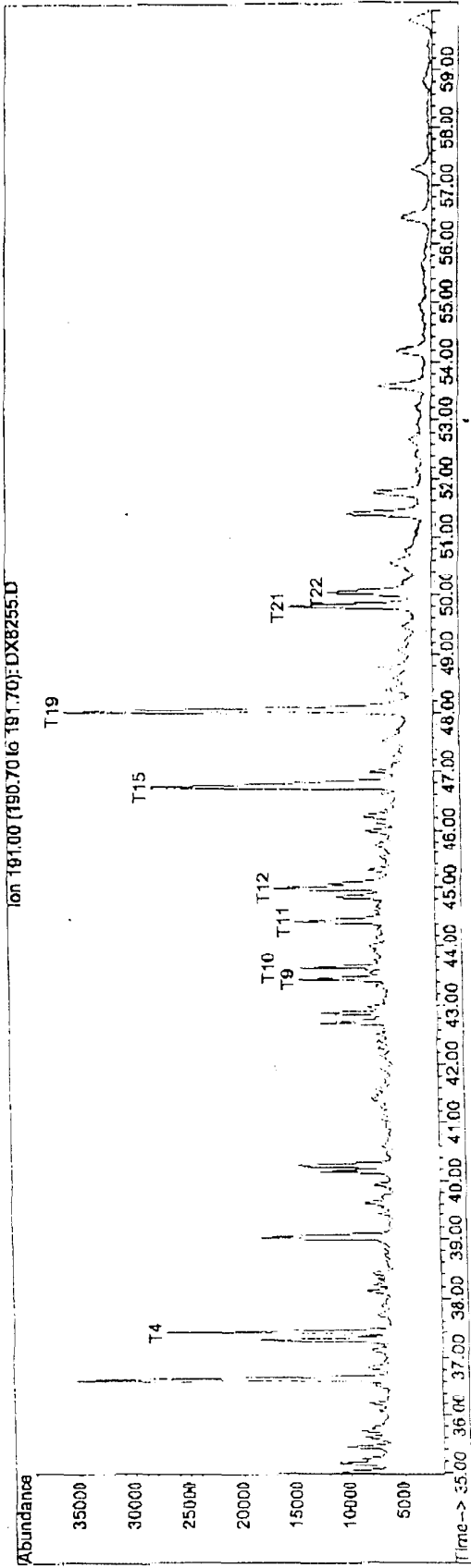
DRAFT

File : C:\HPCHEM\1\SCX658\DX8254.D  
Operator :  
Acquired : 12 Sep 98 8:52 am using AcqMethod PA4SIM  
Instrument : GC/MS#4  
Sample Name : BV-S-88BS  
Misc Info : Blank Spike  
Vial Number: 1



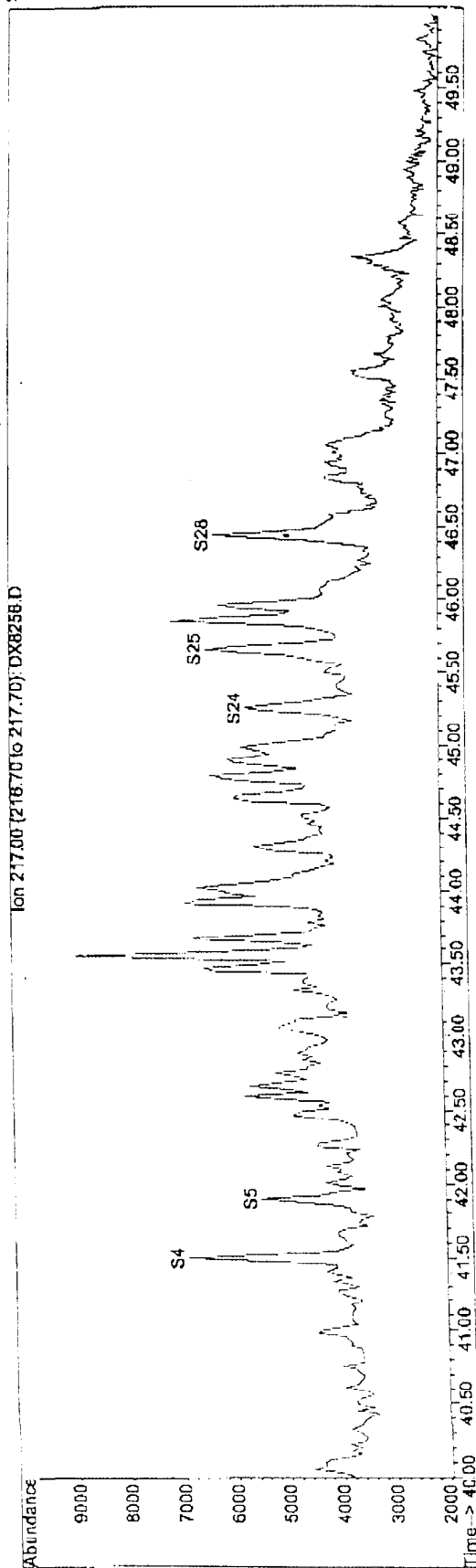
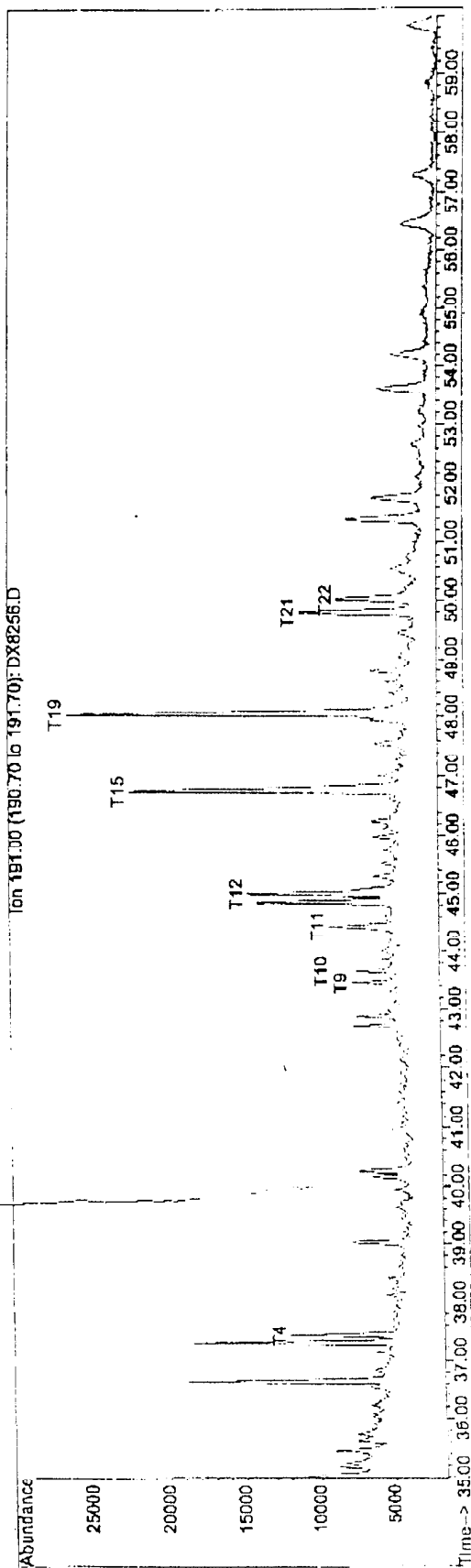
DRAFT

File : C:\HPCHEM\1\SOX658\DX8255.D  
 Operator :  
 Acquired : 12 Sep 98 10:01 am using AcqMethod PA4SIM  
 Instrument : GC/MS#4  
 Sample Name : 98D2796  
 Misc Info : KBCJ02  
 Vial Number : 1



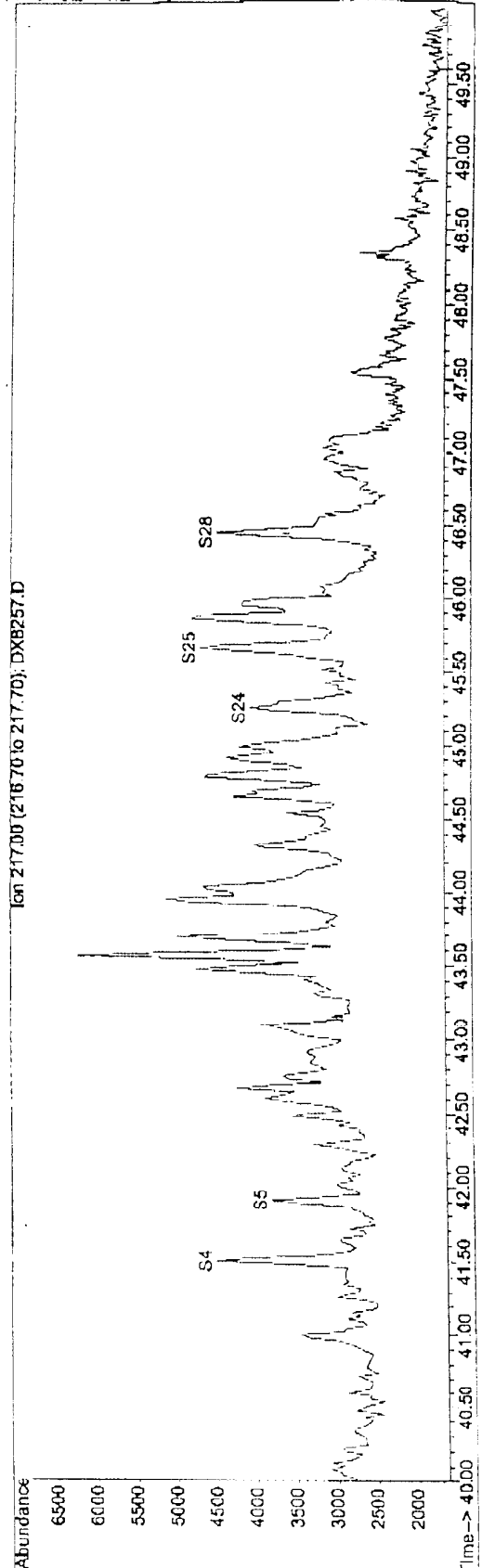
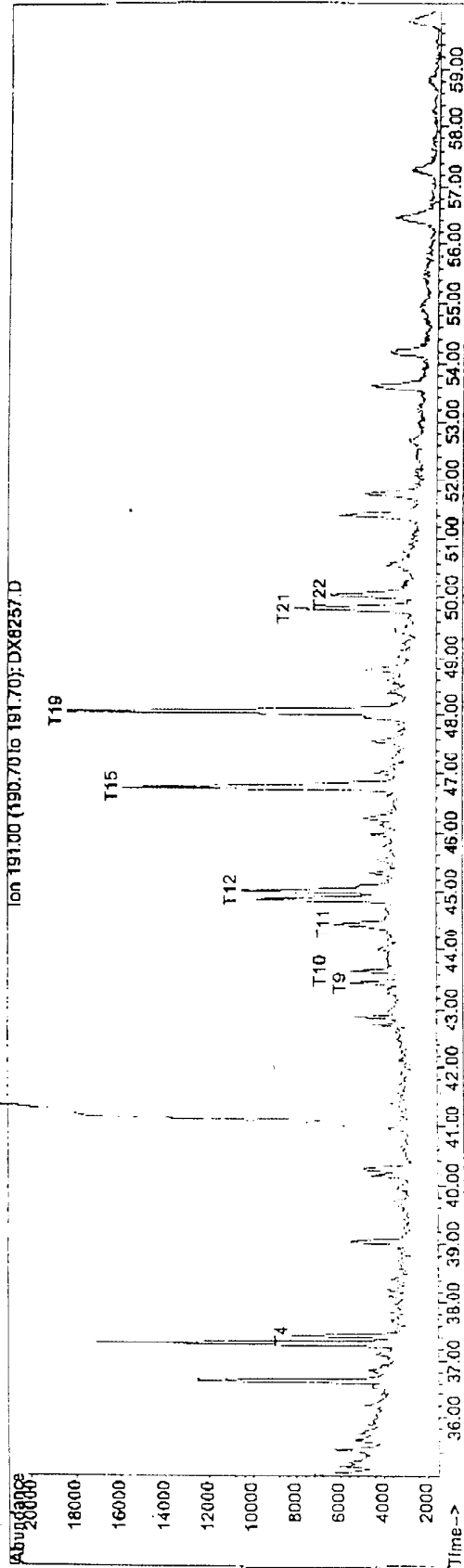
DRAFT

File : C:\HPCHEM\1\SOX658\DX8256.D  
Operator :  
Acquired : 12 Sep 98 11:10 am using AcqMethod PA4SIM  
Instrument : GC/MS#4  
Sample Name : 98D2798  
Misc Info : KBCJ04  
Vial Number : 1



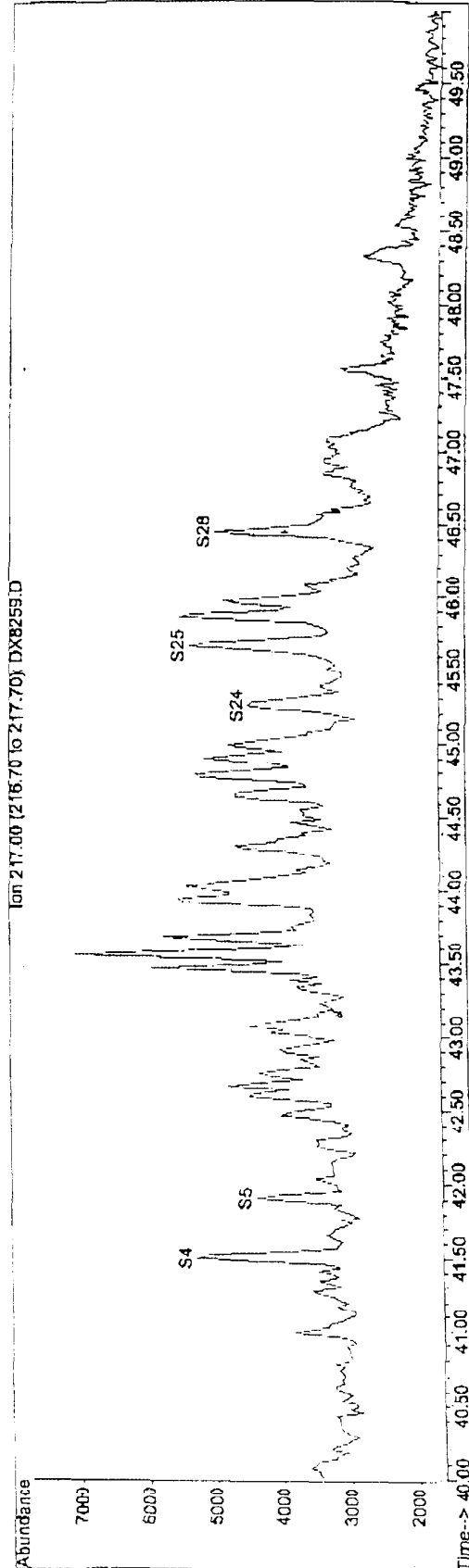
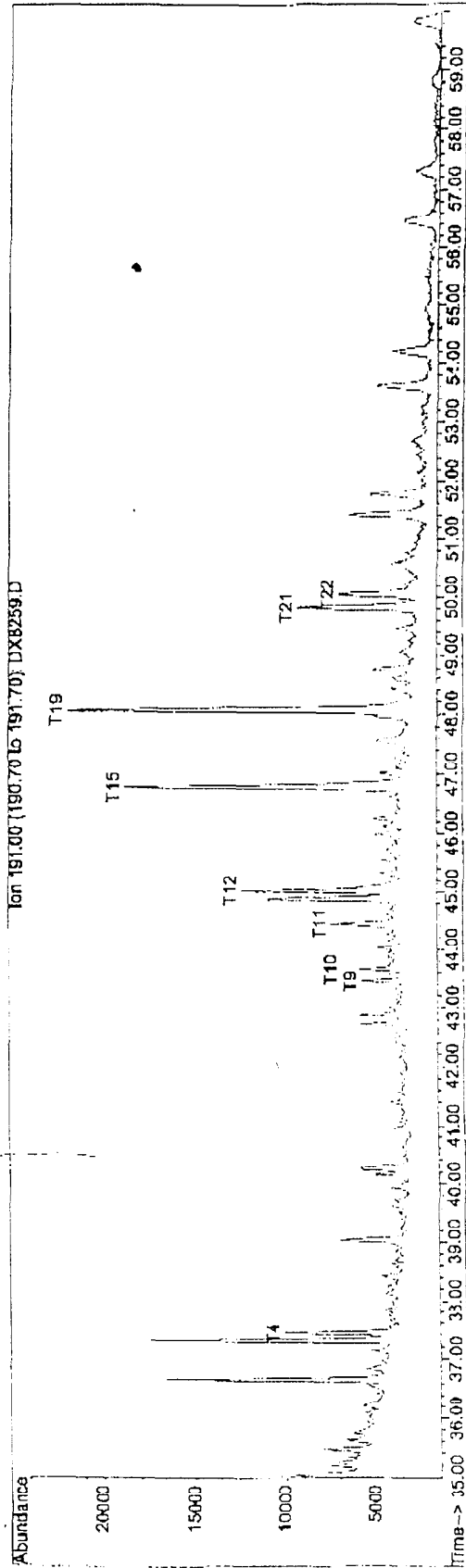
DRAFT

File : C:\HPCHEM\1\SOX658\DX8257.D  
Operator :  
Acquired : 12 Sep 98 12:19 pm using AcqMethod PA4SIM  
Instrument : GC/MS#4  
Sample Name: 98D2801  
Misc Info : KBML01  
Vial Number: 1



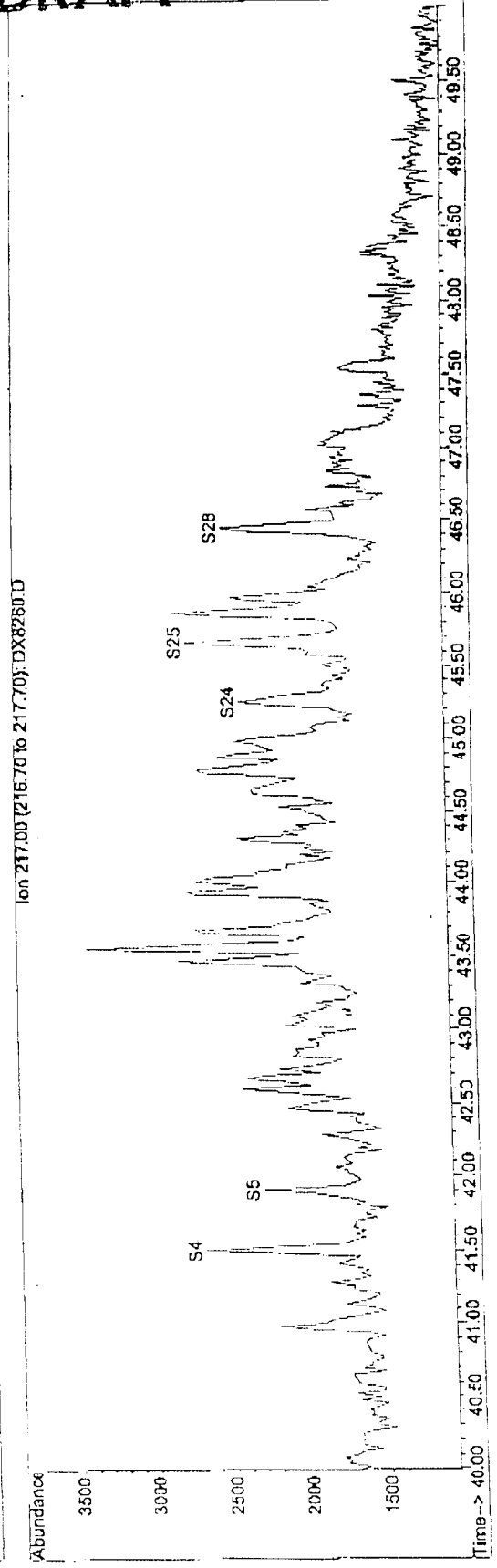
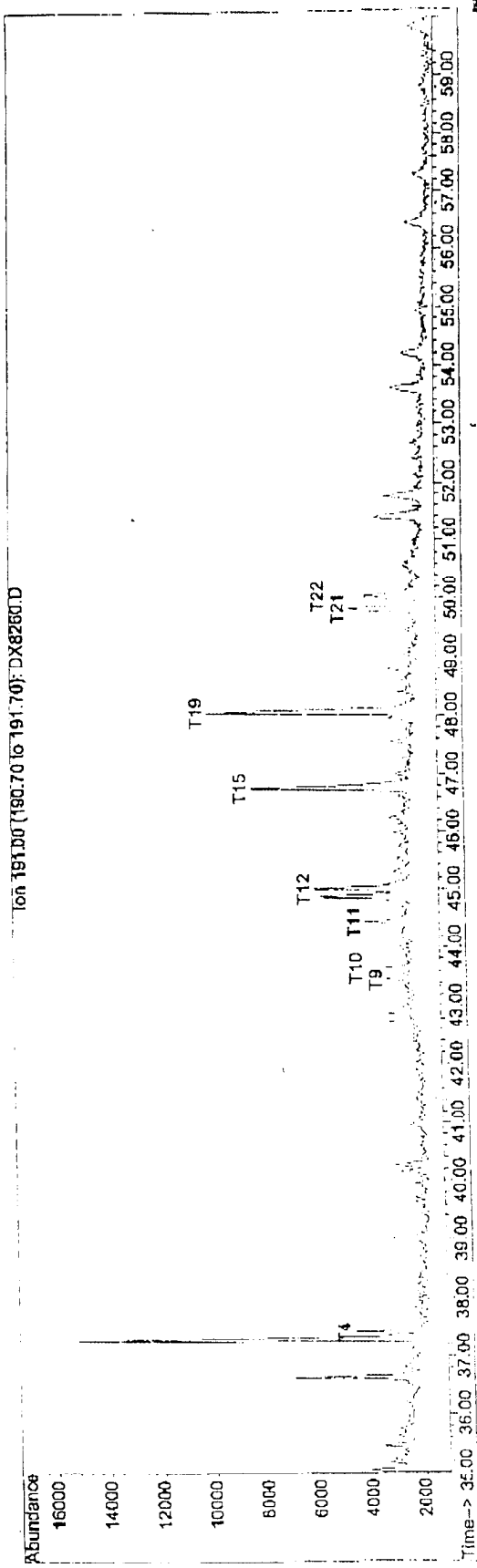
DRAFT

File : C:\HPCHEM\1\SQX658\DX8259.D  
Operator :  
Acquired : 12 Sep 98 2:37 pm using AcqMethod PA4SIM  
Instrument : GC/MS#4  
Sample Name: 98D2802  
Misc Info : KBML02  
Vial Number: 1



DRAFT

File : C:\HPCHEM\1\SOX658\DX8260.D  
Operator :  
Acquired : 12 Sep 98 3:46 pm using AcqMethod PA4SIM  
Instrument : GC/MS#4  
Sample Name : 98D2303  
Misc Info : SPM HOSE002  
Vial Number : 1

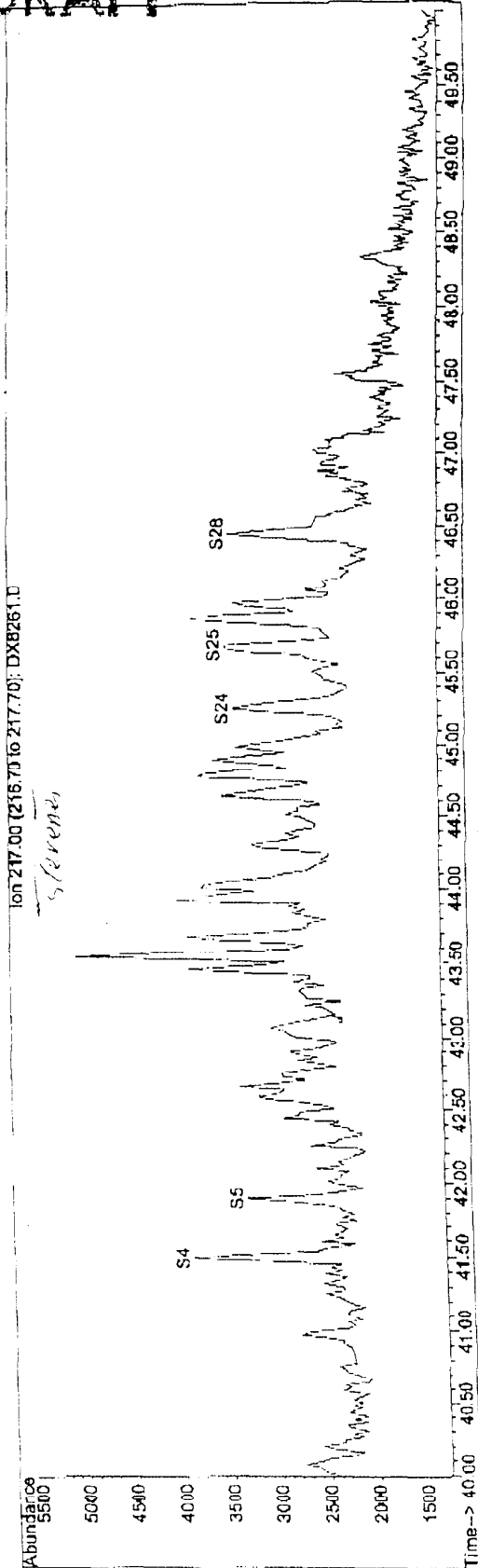
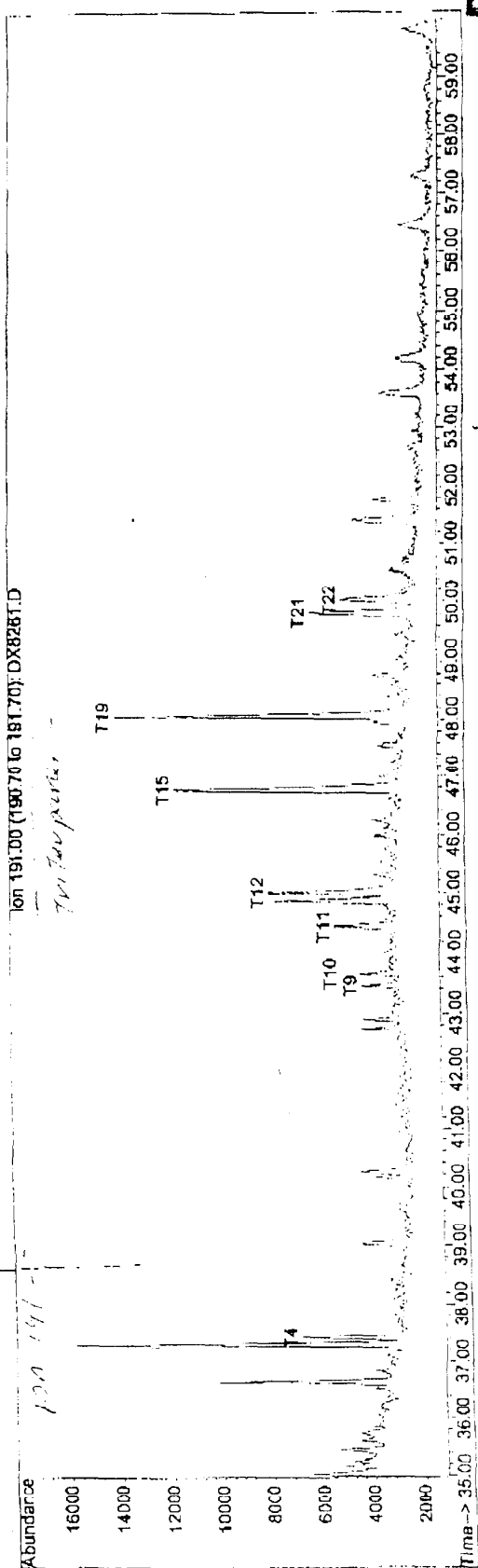




DRAFT

*Some samples  
cycle saturated  
hydrocarbons - they settle &  
resistant to sea water  
Avery check and needs  
+ calibration of biological procedures*

File : C:\HPCHEM\1\SQX658\DX8261.D  
Operator :  
Acquired : 12 Sep 98 4:55 pm using AcqMethod PA4SIM  
Instrument : GC/MS#4  
Sample Name : 98D2804  
Misc Info : SPM HOSE001  
Vial Number: 1



ATTACHMENT 2:

Copy of Oil Sample Analysis Report MSO Honolulu  
Case Number MC98011773 Dated September 15, 1998