

**Superior Water Light & Power
Superior, Wisconsin**



**Phase II, Part II Site Investigation
Report – Appendices A through F**

**Former Manufactured Gas Plant
Superior, Wisconsin**

ENSR International
February 2003
Document Number 09413-098-400

APPENDIX A

Boring Logs and Borehole Abandonment Forms

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP			License/Permit/Monitoring Number			Boring Number B-8		
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Veiber, Inert Well Co				Date Drilling Started 9/18/02		Date Drilling Completed 9/18/02		Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA		Final Static Water Level NA	Surface Elevation 613.89		Borehole Diameter 2 inch	
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/>				Lat		Local Grid Location		
State Plane NA				Long		N <input type="checkbox"/>	S <input type="checkbox"/>	E <input type="checkbox"/>
W <input type="checkbox"/>								

Facility ID		County Douglas		County Code		Civil Town/City/or Village Superior			
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Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments			
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200				
1	GP	38.4	NA	1	Topsoil with grass and roots, dark brown, moist, no odor	CL			0									
2	GP	48	NA	2-5	Clay, stiff, red-brown, slightly moist or moist, no odor.	CH			376							Soil Sample B-8-6-8		
3	GP	48	NA	6-9							197							
4	GP	48	NA	10-13							25.5							
5	GP	48	NA	14-16							8.7							
				17-19							3.4							
				20	END OF BORING - 20 FEET				0									
				21-25														

I hereby certify that the information on this form is true and the correct to the best of my knowledge






Signature	Firm GAEA Technologies Ltd. 202, 1614 Dundas Street East Whitby, ON
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This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-9	
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Weiber, Hein Weiler Co			Date Drilling Started 9/18/02	Date Drilling Completed 9/18/02	Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 614.10	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/> State Plane NA			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	

Facility ID	County Douglas	County Code	Civil Town/City/or Village Superior
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Sample				Depth in Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/RID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	GP	40.8	NA	1	Topsoil with grass and roots, dark brown, moist, no odor	CL			0						
				2											
2	GP	45.6	NA	3	Clay, stiff, red-brown, moist, no odor	CH			0						
				4											
				5											
				6											
				7											
3	GP	48	NA	8	Clay, stiff, red-brown, moist, no odor	CH			0					Soil Sample B-9-10-12	
				9											
				10											
				11											
				12											
4	GP	48	NA	13	Clay, stiff, red-brown, moist, no odor	CH			0						
				14											
				15											
				16											
				17											
5	GP	48	NA	18	Clay, stiff, red-brown, moist, no odor	CH			0						
				19											
				20											
				21											
				22											
				23	END OF BORING - 20 FEET										
				24											
				25											

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

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-10	
Boring Drilled By: Name of crew chief (first, last) and Firm ALVIN WEIDER, Inein Well Co			Date Drilling Started 9/18/02	Date Drilling Completed 9/18/02	Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 613.33	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/> State Plane NA			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	

Facility ID	County Douglas	County Code	Civil Town/City/or Village Superior
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Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments		
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200			
1	GP	36	NA	1	Topsoil with grass and roots, brown, moist, no odor	CL			0								
2	GP	48	NA	2-5	Clay, stiff, red-brown, moist, slight odor	CH		556							Soil Sample B-10-6-8		
				6-7						901							
3	GP	48	NA	8-9						236							
4	GP	48	NA	10-13						791							
				14-15						296							
5	GP	48	NA	16-18			22										
				19-20			8.6										
				20-25	END OF BORING - 20 FEET												

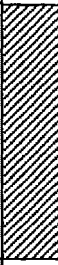
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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-11	
Boring Drilled By: Name of crew chief (first, last) and Firm ALVIN WEIDER, I INEIL WELL CO			Date Drilling Started 9/19/02	Date Drilling Completed 9/19/02	Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 611.21	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/>			Lat	Local Grid Location	
State Plane NA			Long	N <input type="checkbox"/>	E <input type="checkbox"/>
				S <input type="checkbox"/>	W <input type="checkbox"/>
Facility ID		County Douglas	County Code	Civil Town/City/or Village Superior	

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	GP	45.6	NA	1 2 3	2 inches gravel, then lime-like material, hard, gray, no odor				6.6						EnChem B-11-1-3
2	GP	48	NA	4 5 6 7	Same as above except dark gray and slight odor				11 220						
3	GP	48	NA	8 9 10					1261						
				11	1" dark brown peat layer, odor				3300						EnChem B-11-10-12
4	GP	38.4	NA	12 13 14	Cinder-like material with sand, loose, wet and tarry, strong odor Clay, red-brown, stiff, moist, slight odor	CH			NA						GI1 B-11-12-13
5	GP	36	NA	15 16 17 18	Same as above, except coated with sand and tar sluff from 12-13 foot layer				NA						
				19 20 21 22 23 24 25	END OF BORING - 20 FEET										

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-12	
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Weider, Ineh Well Co			Date Drilling Started 9/19/02	Date Drilling Completed 9/19/02	Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 610.96	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/> State Plane NA			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	

Facility ID	County Douglas	County Code	Civil Town/City/or Village Superior
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Sample					Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts	Compressive Strength							Moisture Content	Liquid Limit	Plasticity Index	P 200		
1	GP	45.6	NA		1 2 3 4 5 6 7 8 9 10	Gray lime-like material, hard and crumbly, slightly moist, grey, no odor				40						
2	GP	46.8	NA		11 12 13 14	- Slight petro odor -				556 3300						
3	GP	36	NA		15 16 17 18 19	Same as above except dark gray and with 1" peat layer				3300						EnChem B-12-8-10
4	GP	2.4	NA		20 21 22 23 24 25	Cinder-like material, wet and tarry, black, strong odor, some peat layers				NA						GT B-12-11-12
5	GP	45.6	NA			Clay, red-brown, with coating of tarry sluff from above layer, odor, stiff	CH			NA						
						END OF BORING - 20 FEET										

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-13	
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Weber, Their Well Co			Date Drilling Started 9/19/02	Date Drilling Completed 9/19/02	Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 610.81	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/>			Lat	Local Grid Location	
State Plane NA			Long	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	

Facility ID	County Douglas	County Code	Civil Town/City/or Village Superior
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Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FTD	Soil Properties					RQD/ Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	GP	48	NA	1	0 - 2" = gravel, 1 - 2 ft = gray lime-like material, 2 - 3 ft = white, crumbly, soft material, 3 - 4 ft = gray lime material. All moist with no odor.				2						
				2											
				3											
2	GP	48	NA	4	Gray, lime-like material, slightly moist, hard, crumbly, slight odor				9.1						
				5											
				6					0						
				7											
				8											
3	GP	48	NA	9	Same as above except dark gray and moist				2						
				10											
				11	Peat material with tar, black, wet, strong odor				1857						
				12											G11 B-13-12-13
4	GP	48	NA	13	Fine to coarse sand, tarry, wet, strong odor	SP									
				14	Clay, red-brown, coated in sluff of tarry material from above layer, tarry odor, moist	CH			NA						
				15											EnChem B-13-15-16
				16											
5	GP	24	NA	17											
				18											
				19											
				20											
				21	END OF BORING - 20 FEET										
				22											
				23											
				24											
				25											

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-14	
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Weiber, Thein Well Co			Date Drilling Started 9/19/02	Date Drilling Completed 9/19/02	Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 611.03	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/>			Lat	Local Grid Location	
State Plane NA			Long	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	

Facility ID	County Douglas	County Code	Civil Town/City/for Village Superior
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Sample Number	Sample Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/EID	Soil Properties					RQD/ Comments		
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200			
1	GP	42	NA	1	Parking lot aggregate												
				2	Gray fill material				7.5								
				3													
				4													
2	GP	48	NA	5					799								
				6													
				7													
3	GP	48	NA	8					3281								
				9													
				10													
				11	Cinder-like material with possible purifier waste (wood chips) and 2" layer of sand above clay, wet, tarry, strong odor				2591							EnChem B-14-11-12	
4	GP	44.4	NA	12		Clay, red-brown, moist, stiff, covered in tarry material from above	CH			NA							EnChem B-14-15-16
				13													
				14													
5	GP	12	NA	15	END OF BORING - 20 FEET				0								
				16													
				17													
				18													
				19													
				20													

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-15	
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Weiber, Inein Well Co			Date Drilling Started 9/19/02	Date Drilling Completed 9/19/02	Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 611.68	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/>			Lat	Local Grid Location	
State Plane NA			Long	N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W <input type="checkbox"/>	

Facility ID	County Douglas	County Code	Civil Town/City/or Village Superior
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Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	GP	45.6	NA	1	Gravel, mixed with sand and lime material, brown, gray, yellow-brown, dry and crumbly				0						EnChem B-15-1-3
2	GP	42	NA	5		Clay with trace gravel, red-brown, with black shiny coal-like material in 4" layer, moist, stiff, slight odor, appears to be fill because of cracked structure.			1080						
3	GP	9.6	NA	10			Clay with tarry wood pieces causing low recovery. Wet pulverized wood pieces, tarry, black, strong odor.			NA					
4	GP	48	NA	13				Clay, red-brown, moist, stiff, odor			NA				
5	GP	0	NA	18		No recovery, only tarry sleeve			NA						
				20	END OF BORING - 20 FEET										


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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-16	
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Weiber, 1 nein well Co			Date Drilling Started 9/19/02	Date Drilling Completed 9/19/02	Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 611.24	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/> State Plane NA			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID		County Douglas	County Code	Civil Town/City/or Village Superior	

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	GP	38.4	NA	1 2 3 4	Lime-like material, gravel, brick, and black cindery-like material mixed. Crumbly, dry, no odor.				0						
2	GP	33.6	NA	5 6 7 8	Clay with trace gravel, fill, moist, med-stiff, cracked structure, slight odor				104						EnChem B-16-6-8
3	GP	24	NA	9 10 11 12	Clay and wood, low recovery due to large pieces of wood, strong odor from wood.				2640						
4	GP	0	NA	13 14 15 16	No recovery, just tarry tube. Mixed sand and firewood pieces, wet, black, tarry, strong odor.										
5	GP	48	NA	17 18 19 20	Clay, red-brown, moist, med-stiff, odor, covered in tarry liquid.	CH									
				21 22 23 24 25	END OF BORING - 20 FEET										

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-17	
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Weiber, Their Well Co			Date Drilling Started 9/19/02	Date Drilling Completed 9/19/02	Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 611.52	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/>			Lat	Local Grid Location	
State Plane NA			Long	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	

Facility ID	County Douglas	County Code	Civil Town/City/or Village Superior
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Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	GP	36	NA	1	0-2" gravel. Lime-like material, gray to yellow-brown, crumbly, slightly moist, no odor.				0						
2	GP	38.4	NA	6		Black cinder and wood and topsoil-like material, moist, no odor, crumbly.				0				EnChem B-17-6-8	
				8	Clay with trace gravel, fill, moist, med-stiff, Hit Steel at 8 ft - Refusal -										
				10	END OF BORING - 8 FEET										

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-18	
Boring Drilled By: Name of crew chief (first, last) and Firm ALVIN WEIBER, IHEIN WELL CO			Date Drilling Started 9/19/02	Date Drilling Completed 9/19/02	Drilling Method GEOPROBE
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 612.07	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/>			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane NA					

Facility ID	County Douglas	County Code	Civil Town/City/or Village Superior
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Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	GP	48	NA	1	Gravel and sand 0-1 Ft, brown, moist 1-3 Ft = limc-like material, gray, no odor, moist				0						
				2											
				3											
2	GP	45.6	NA	4	Clay, red-brown, trace gravel, moist, cracked structure, Fill.	CH			0						
				5											
				6											
				7											
				8											
3	GP	27.6	NA	9	4-inch med sand layer, wet, brown, no odor. Clay, red-brown, w/some gray mottles, moist, med-stiff, no odor.				0						
				10											
				11											
				12											
4	GP	48	NA	13		CH			0						
				14											
				15											
5	GP	48	NA	16					0						
				17											
				18											
				19											
				20	END OF BORING - 20 FEET										
				21											
				22											
				23											
				24											
				25											

I hereby certify that the information on this form is true and the correct to the best of my knowledge


Signature	Firm GAEA Technologies Ltd. 202, 1614 Dundas Street East Whitby, ON
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This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-19	
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Weider, Inein Well Co			Date Drilling Started 9/19/02	Date Drilling Completed 9/19/02	Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 611.84	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/>			Lat	Local Grid Location	
State Plane NA			Long	N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W <input type="checkbox"/>	

Facility ID	County Douglas	County Code	Civil Town/City/or Village Superior
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Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments		
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200			
1	GP	48	NA	1	0-6" = gravel and sand				0								
				2	6"-6.5 Ft = brick and concrete, orange, white, and yellow, dry, intact, no odor.												
2	GP	48	NA	6					0								
				7	Clay, red-brown, moist, stiff, no odor	CH											
3	GP	12	NA	9	- low recovery - rock in sampler tip -				0							EnChem B-19-10-12	
4	GP	48	NA	14					0								
				16	END OF BORING - 16 FEET												

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-20	
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Weider, Hein Weil Co			Date Drilling Started 9/19/02	Date Drilling Completed 9/19/02	Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 612.33	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/>			Lat	Local Grid Location	
State Plane NA			Long	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	

Facility ID	County Douglas	County Code	Civil Town/City/or Village Superior
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Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments		
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200			
1	GP	40.8	NA	1	0-1" = gravel and sand												
				2	Mixed brick, cinders, sand and gravel, red-brown, black, and brown, dry, no odor.				0								
2	GP	36	NA	6	Clay, red-brown, moist, no odor, native	CH			0								
3	GP	42	NA	10					0								EnChem
				11													B-20-10-12
4	GP	48	NA	14					0								
				16	END OF BORING - 16 FEET												


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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP			License/Permit/Monitoring Number			Boring Number B-21			
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Weiber, Hein Well Co				Date Drilling Started 9/19/02		Date Drilling Completed 9/19/02		Drilling Method Geoprobe	
WI Unique Well No. NA		DNR Well ID No. NA		Common Well Name NA		Final Static Water Level NA		Surface Elevation 612.75	
Borehole Diameter 2 inch		Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/>			Lat		Local Grid Location		
State Plane NA					Long		N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W <input type="checkbox"/>		
Facility ID			County Douglas		County Code		Civil Town/City/or Village Superior		

Sample Number	Type	Length Att. & Recovered (ft)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	GP	38.4	NA	1 2 3	0-1" = gravel and sand, brown 1-2" lime-like material, gray 2-3" Brick, orange. All crumbly and dry, no odor.				0						
2	GP	36	NA	4 5 6 7	Mixed brick, cinders, sand and gravel, red-brown, black, and brown, dry, no odor. Brick with med brown sand layer @ 6-7 Ft.				0						
3	GP	48	NA	8 9 10 11	Clay, red-brown, moist, no odor, native	CH			0						EnChem B-21-10-12
4	GP		NA	12 13 14 15					0						
				16 17 18 19 20 21 22 23 24 25	END OF BORING - 16 FEET										


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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP			License/Permit/Monitoring Number			Boring Number B-22			
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Veiber, Hein Well Co				Date Drilling Started 9/19/02		Date Drilling Completed 9/19/02		Drilling Method Geoprobe	
WI Unique Well No. NA		DNR Well ID No. NA	Common Well Name NA		Final Static Water Level NA		Surface Elevation 612.29	Borehole Diameter 2 inch	
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/>				Lat		Local Grid Location			
State Plane NA				Long		N <input type="checkbox"/>	S <input type="checkbox"/>	E <input type="checkbox"/>	
W <input type="checkbox"/>									
Facility ID			County Douglas		County Code		Civil Town/City/or Village Superior		

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	GP	24	NA	1	Sand with gravel, brown and dark brown, dry, crumbly, no odor.				0						
				2											
				3											
				4											
2	GP	33.6	NA	5	Bricks, red, white, and purple-brown, crumbly, intact and hard, no odor.				0						
				6											
				7											
				8											
3	GP	36	NA	9	Clay with sand and gravel layers that are wet, red-brown to brown, no odor.	CH			0						EnChem B-22-8-10
				10											
				11											
				12											
4	GP	38.4	NA	13	END OF BORING - 16 FEET				0						
				14											
				15											
				16											
17															
18															
19															
20															
21															
22															
23															
24															
25															






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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name SWL&P MGP		License/Permit/Monitoring Number		Boring Number B-23	
Boring Drilled By: Name of crew chief (first, last) and Firm Alvin Weiber, Their Well Co			Date Drilling Started 9/19/02	Date Drilling Completed 9/19/02	Drilling Method Geoprobe
WI Unique Well No. NA	DNR Well ID No. NA	Common Well Name NA	Final Static Water Level NA	Surface Elevation 613.65	Borehole Diameter 2 inch
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/>			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID		County Douglas	County Code	Civil Town/City/or Village Superior	

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	GP	38.4	NA	1	Topsoil with roots and grass, red-brown and dark brown 0-1'	CL									
				2											
2	GP	36	NA	3	Clay, red-brown, moist, stiff, no odor - Same with petro odor -	CH									
				4											
				5											
				6											
3	GP	48	NA	7											
				8											
				9											
4	GP	48	NA	10											
				11											
				12	END OF BORING - 16 FEET										
				13											
				14											
				15											
				16											
				17											
				18											
				19											
				20											
				21											
				22											
				23											
				24											
				25											

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	
Common Well Name _____		Gov't Lot (if applicable) _____	
SW 1/4 of SW 1/4 of Sec. <u>13</u> ; T. <u>49</u> N.; R. <u>14</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W		Street Address of Well	
_____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		WINTER STREET @ WATER STREET	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		City, Village, or Town	
Lat. _____ Long _____ or _____		SUPERIOR, WI	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		Present Well Owner	
Reason For Abandonment		Original Owner	
BORE HOLE ONLY		SAME AS ABOVE	
WI Unique Well No. of Replacement Well _____		Street Address or Route of Owner	
City, State, Zip Code		_____	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION	(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL
Original Construction Date <u>9/18/02</u>	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well	Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Water Well	Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Borehole / Drillhole	Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No
Construction Type:	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Other (Specify) _____	Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Formation Type:	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Required Method of Placing Sealing Material
Total Well Depth (ft.) <u>20'</u> Casing Diameter (in.) <u>N/A</u>	<input type="checkbox"/> Conductor Pipe-Gravimetry <input checked="" type="checkbox"/> Conductor Pipe-Pumped
(From ground surface) Casing Depth (ft.) _____	<input type="checkbox"/> Screened & Poured (Bentonite Chips)
Lower Drillhole Diameter (in.) _____	Sealing Materials
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Neat Cement Grout
If Yes, To What Depth? _____ Feet	<input type="checkbox"/> Sand-Cement (Concrete) Grout
Depth to Water (Feet) _____	<input type="checkbox"/> Concrete
	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
	<input type="checkbox"/> Bentonite-Sand Slurry " "
	<input type="checkbox"/> Bentonite Chips
	For monitoring wells and monitoring well boreholes only
	<input type="checkbox"/> Bentonite Chips
	<input type="checkbox"/> Granular Bentonite
	<input type="checkbox"/> Bentonite - Cement Grout
	<input type="checkbox"/> Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT	Surface	20'	1		

(6) Comments: GP#8

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment
THEIN WELL COMPANY		9/19/02
Signature of Person Doing Work	Date Signed	
<i>[Signature]</i>	10/24/02	
Street or Route	Telephone Number	
P.O. BOX 422	(320) 847-3207	
City, State, Zip Code		
CLARA CITY, MN 56222		

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION			(2) FACILITY/OWNER INFORMATION		
WI Unique Well No.	DNR Well ID No.	County DOUGLAS	Facility Name SUPERIOR WATER, LIGHT & POWER		
Common Well Name _____ Gov't Lot (if applicable) _____			Facility ID	License/Permit/Monitoring No.	
Grid Location SW 1/4 of SW 1/4 of Sec. 13 ; T. 49 N; R. 14 <input type="checkbox"/> E <input checked="" type="checkbox"/> W _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S, _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.			Street Address of Well WINTER STREET @ WATER STREET		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>			City, Village, or Town SUPERIOR, WI		
Lat. _____ Long _____ or _____			Present Well Owner SAME AS ABOVE		Original Owner
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone			Street Address or Route of Owner		
Reason For Abandonment BORE HOLE ONLY			City, State, Zip Code		
WI Unique Well No. of Replacement Well _____					

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date 9/18/02	If a Well Construction Report is available, please attach.	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft.) 20' Casing Diameter (in.) N/A (From ground/surface) Casing Depth (ft.) _____		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Lower Drillhole Diameter (in.) _____		Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Depth to Water (Feet) _____		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
		Sealing Materials <input checked="" type="checkbox"/> Neat Cement Grout For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Concrete <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Bentonite - Sand Slurry <input type="checkbox"/> Bentonite Chips	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT	Surface	20'	1		

(6) Contents: GP#9

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment
THEIN WELL COMPANY		9/19/02
Signature of Person Doing Work	Date Signed	
	10/24/02	
Street or Route	Telephone Number	
P.O. BOX 422	(320) 847-3207	
City, State, Zip Code		
CLARA CITY, MN 56222		

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

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Reus for: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		DOUGLAS	SUPERIOR WATER, LIGHT & POWER
Common Well Name	Gov't Lot (if applicable)	Facility ID	License/Permit/Monitoring No.
Grid Location	Street Address of Well	City, Village, or Town	
S1/4 of S1/4 of Sec. 13; T. 49 N.; R. 14	WINNER STREET @ WATER STREET	SUPERIOR, WI	
Local Grid Origin	Present Well Owner	Original Owner	
	SAME AS ABOVE		
St. Plane	Street Address or Route of Owner		
	City, State, Zip Code		
Reason For Abandonment	WI Unique Well No.		
BORE HOLE ONLY	of Replacement Well		

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date	Pump & Piping Removed?	Liner(s) Removed?	
9/18/02	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Monitoring Well	Screen Removed?	Casing Left in Place?	
<input type="checkbox"/> Water Well	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<input checked="" type="checkbox"/> Borehole / Drillhole	Was Casing Cut Off Below Surface?	Did Sealing Material Rise to Surface?	
Construction Type:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input checked="" type="checkbox"/> Drilled	Did Material Settle After 24 Hours?	If Yes, Was Hole Retopped?	
<input type="checkbox"/> Driven (Sandpoint)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> Dug	Required Method of Placing Sealing Material		
<input type="checkbox"/> Other (Specify)	<input type="checkbox"/> Conductor Pipe-Gravity	<input checked="" type="checkbox"/> Conductor Pipe-Pumped	
Formation Type:	<input type="checkbox"/> Screeded & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain)	
<input checked="" type="checkbox"/> Unconsolidated Formation	Sealing Materials	For monitoring wells and monitoring well boreholes only	
<input type="checkbox"/> Bedrock	<input checked="" type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Bentonite Chips	
Total Well Depth (ft.)	<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Granular Bentonite	
20'	<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite - Cement Grout	
Casing Diameter (in.)	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	<input type="checkbox"/> Bentonite - Sand Slurry	
N/A	<input type="checkbox"/> Bentonite-Sand Slurry	<input type="checkbox"/> Bentonite - Sand Slurry	
Casing Depth (ft.)	<input type="checkbox"/> Bentonite Chips		
Lower Drillhole Diameter (in.)			
Was Well Annular Space Grouted?			
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If Yes, To What Depth? Feet			
Depth to Water (feet)			

(5)	Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
	NEAT CEMENT	Surface	20'	1		

(6) Comments: GP#10

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
THEIN WELL COMPANY		9/19/02	
Signature	Date Signed		
<i>[Signature]</i>	10/24/02		
Street or Route	Telephone Number		
P.O. BOX 422	(320) 847-3207		
City, State, Zip Code			
CLARA CITY, MN 56222			

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION			(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name SUPERIOR WATER, LIGHT & POWER	
Common Well Name _____ Gov't Lot (if applicable) _____			Facility ID	License/Permit/Monitoring No.
SW 1/4 of SW 1/4 of Sec. 13 ; T. 49 N; R. 14 <input type="checkbox"/> E Grid Location <input checked="" type="checkbox"/> W			Street Address of Well WINTER STREET @ WATER STREET	
_____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S, _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.			City, Village, or Town SUPERIOR, WI	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>			Present Well Owner	Original Owner
Lat. _____ Long. _____ or _____			SAME AS ABOVE	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N Zone			Street Address or Route of Owner	
Reason For Abandonment BORE HOLE ONLY		WI Unique Well No. of Replacement Well _____	City, State, Zip Code	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date <u>9/18/02</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft.) <u>24'</u> Casing Diameter (in.) <u>N/A</u> (From ground surface) Casing Depth (ft.) _____		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Lower Drillhole Diameter (in.) _____		Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Depth to Water (Feet) _____		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screeded & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight

(6) Comments: GP#11

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment
THEIN WELL COMPANY		9/19/02
Signature of Person Doing Work	Date Signed	
<i>[Signature]</i>	10/24/02	
Street or Route	Telephone Number	
P.O. BOX 422	(320) 847-3207	
City, State, Zip Code		
CLARA CITY, MN 56222		

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Route for: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		DOUGLAS	SUPERIOR WATER, LIGHT & POWER
Common Well Name	Gov't Lot (If applicable)	Facility ID	License/Permit/Monitoring No.
SW 1/4 of SW 1/4 of Sec. 13 ; T. 49 N; R. 14	<input type="checkbox"/> E <input checked="" type="checkbox"/> W		
Grid Location	ft. <input type="checkbox"/> N. <input type="checkbox"/> S. ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Street Address of Well	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		WINTER STREET @ WATER STREET	
Lat. _____ Long _____ or _____		City, Village, or Town	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		SUPERIOR, WI	
Reason For Abandonment	WI Unique Well No. of Replacement Well	Present Well Owner	Original Owner
BORE HOLE ONLY		SAME AS ABOVE	
		Street Address or Route of Owner	
		City, State, Zip Code	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date	If a Well Construction Report is available, please attach.	Pump & Piping Removed?	Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/>
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) Removed?	Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/>
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		Screen Removed?	Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/>
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Casing Left in Place?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Total Well Depth (ft.) 20' Casing Diameter (in.) N/A (From ground surface) Casing Depth (ft.) _____		Was Casing Cut Off Below Surface?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Lower Drillhole Diameter (in.) _____		Did Sealing Material Rise to Surface?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Did Material Settle After 24 Hours?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
If Yes, To What Depth? _____ Feet		If Yes, Was Hole Retopped?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Depth to Water (Feet) _____		Required Method of Placing Sealing Material	
		<input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped	
		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____	
		Sealing Materials	For monitoring wells and monitoring well boreholes only
		<input checked="" type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Bentonite Chips
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Granular Bentonite
		<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite - Cement Grout
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	<input type="checkbox"/> Bentonite - Sand Slurry
		<input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Bentonite Chips	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT	Surface	20'	1		

(6) Comments: GP#12

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
THEIN WELL COMPANY		9/19/02	
Signature of Person Doing Work	Date Signed		
<i>[Signature]</i>	10/24/02		
Street or Route	Telephone Number		
P.O. BOX 422	(320) 847-3207		
City, State, Zip Code			
CLARA CITY, MN 56222			

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Date Received	Noted By
Comments	

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION			(2) FACILITY/OWNER INFORMATION		
WI Unique Well No.	DNR Well ID No.	County	Facility Name		
		DOUGLAS	SUPERIOR WATER, LIGHT & POWER		
Common Well Name _____ Gov't Lot (if applicable) _____			Facility ID	License/Permit/Monitoring No.	
SW 1/4 of SW 1/4 of Sec. 13 ; T. 49 N; R. 14 <input type="checkbox"/> E <input checked="" type="checkbox"/> W			Street Address of Well		
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.			WINTER STREET @ WATER STREET		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>			City, Village, or Town		
Lat. _____ Long _____ or _____			SUPERIOR, WI		
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone			Present Well Owner		
Reason For Abandonment			Original Owner		
BORE HOLE ONLY			SAME AS ABOVE		
WI Unique Well No. of Replacement Well _____			Street Address or Route of Owner		
			City, State, Zip Code		

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL			
Original Construction Date <u>9/18/02</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable			
<input type="checkbox"/> Monitoring Well		Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable			
<input type="checkbox"/> Water Well		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable			
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Construction Type:		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> Other (Specify) _____		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Formation Type:		If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Required Method of Placing Sealing Material			
Total Well Depth (ft.) <u>20'</u> Casing Diameter (in.) <u>N/A</u>		<input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped			
(From ground surface) Casing Depth (ft.) _____		<input type="checkbox"/> Screeded & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____			
Lower Drillhole Diameter (in.) _____		Sealing Materials			
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Neat Cement Grout			
If Yes, To What Depth? _____ Feet		<input type="checkbox"/> Sand-Cement (Concrete) Grout			
Depth to Water (Feet) _____		<input type="checkbox"/> Concrete			
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
		<input type="checkbox"/> Bentonite-Sand Slurry " "			
		<input type="checkbox"/> Bentonite Chips			
		For monitoring wells and monitoring well boreholes only			
		<input type="checkbox"/> Bentonite Chips			
		<input type="checkbox"/> Granular Bentonite			
		<input type="checkbox"/> Bentonite - Cement Grout			
		<input type="checkbox"/> Bentonite - Sand Slurry			

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT	Surface	20'	1		

(6) Comments: GP#13

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
THEIN WELL COMPANY		9/19/02	
Signature of Person Doing Work		Date Signed	
<i>[Signature]</i>		10/24/02	
Street or Route		Telephone Number	
P.O. BOX 422		(320) 847-3207	
City, State, Zip Code			
CLARA CITY, MN 56222			

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

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Route to: Drilling Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION			(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name	
		DOUGLAS	SUPERIOR WATER LIGHT & POWER	
Common Well Name		Gov't Lot (if applicable)	Facility ID	License/Permit/Monitoring No.
SW 1/4 of SW 1/4 of Sec. 13 : T. 49 N; R. 14				
Grid Location			Street Address of Well	
_____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.			WINTER STREET @ WATER STREET	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>			City, Village, or Town	
Lat. _____ Long _____			SUPERIOR, WI	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone			Present Well Owner	Original Owner
Reason For Abandonment		WI Unique Well No. of Replacement Well	SAME AS ABOVE	
BORE HOLE ONLY			Street Address or Route of Owner	
			City, State, Zip Code	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date	If a Well Construction Report is available, please attach.	Pump & Piping Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Construction Type:		Screen Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Casing Left in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Other (Specify) _____		Was Casing Cut Off Below Surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Formation Type:		Did Sealing Material Rise to Surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did Material Settle After 24 Hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Total Well Depth (ft.) 20' Casing Diameter (in.) N/A		If Yes, Was Hole Retopped?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(From ground surface) Casing Depth (ft.) _____		Required Method of Placing Sealing Material	
Lower Drillhole Diameter (in.) _____		<input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
If Yes, To What Depth? _____ Feet		Sealing Materials	For monitoring wells and monitoring well boreholes only
Depth to Water (Feet) _____		<input checked="" type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Bentonite Chips
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Granular Bentonite
		<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite - Cement Grout
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	<input type="checkbox"/> Bentonite - Sand Slurry
		<input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Bentonite Chips	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT	Surface	20'	1		

(6) Comments: GP # 114

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	FOR DNR OR COUNTY USE ONLY	
THEIN WELL COMPANY		9/19/02		
Signature of Person Doing Work	Date Signed	Date Received		
<i>[Signature]</i>	10/24/02	Noted By		
Street or Route	Telephone Number	Comments		
P.O. BOX 422	(320) 847-3207			
City, State, Zip Code				
CLARA CITY, MN 56222				

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		DOUGLAS	SUPERIOR WATER, LIGHT & POWER
Common Well Name	Gov't Lot (If applicable)	Facility ID	License/Permit/Monitoring No.
SW 1/4 of SW 1/4 of Sec. 13 ; T. 49 N; R. 14	<input type="checkbox"/> E <input checked="" type="checkbox"/> W		
Grid Location	ft. <input type="checkbox"/> N. <input type="checkbox"/> S. ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Street Address of Well	
		WINTER STREET @ WATER STREET	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		City, Village, or Town	
Lat. " " " " " " " "	Long " " " " " " " "	SUPERIOR, WI	
St. Plate _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		Present Well Owner	Original Owner
Reason For Abandonment	WI Unique Well No. of Replacement Well	SAME AS ABOVE	
BORE HOLE ONLY		Street Address or Route of Owner	
		City, State, Zip Code	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date		Pump & Piping Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well	If a Well Construction Report is available, please attach.	Liner(s) Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Water Well		Screen Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing Left in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Construction Type:		Was Casing Cut Off Below Surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Did Sealing Material Rise to Surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Other (Specify) _____		Did Material Settle After 24 Hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Formation Type:		If Yes, Was Hole Retopped?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Required Method of Placing Sealing Material	
Total Well Depth (ft.) 20' Casing Diameter (in.) N/A		<input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped	
(From ground surface) Casing Depth (ft.) _____		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____	
Lower Drillhole Diameter (in.) _____		Sealing Materials	For monitoring wells and monitoring well boreholes only
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Bentonite Chips
If Yes, To What Depth? _____ Feet		<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Granular Bentonite
Depth to Water (Feet) _____		<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite - Cement Grout
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	<input type="checkbox"/> Bentonite - Sand Slurry
		<input type="checkbox"/> Bentonite-Sand Slurry " "	<input type="checkbox"/> Bentonite - Sand Slurry
		<input type="checkbox"/> Bentonite Chips	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT	Surface	20'	1		

(6) Comments: GP#15

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
THEIN WELL COMPANY		9/19/02	
Signature of Person Doing Work	Date Signed		
<i>[Signature]</i>	10/24/02		
Street or Route	Telephone Number		
P.O. BOX 422	(320) 847-3207		
City, State, Zip Code			
CLARA CITY, MN 56222			

FOR DNR OR COUNTY USE ONLY

Date Received: _____ Noted By: _____

Comments: _____

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Route for: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION		(2) FACILITY/ OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County DOUGLAS	
Common Well Name		Facility Name SUPERIOR WATER, LIGHT & POWER	
Gov't Lot (If applicable)		Facility ID	
SW 1/4 of SW 1/4 of Sec. 13 ; T. 49 N; R. 14 <input type="checkbox"/> E <input checked="" type="checkbox"/> W		License/Permit/Monitoring No.	
Grid Location		Street Address of Well WINTER STREET @ WATER STREET	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		City, Village, or Town SUPERIOR, WI	
Lat. _____ Long _____		Present Well Owner	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		Original Owner SAME AS ABOVE	
Reason For Abandonment BORE HOLE ONLY		Street Address or Route of Owner	
WI Unique Well No. of Replacement Well		City, State, Zip Code	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date <u>9/18/02</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Monitoring Well		Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Water Well		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Construction Type:		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Other (Specify) _____		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Formation Type:		If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Required Method of Placing Sealing Material	
Total Well Depth (ft.) <u>20'</u> Casing Diameter (in.) <u>N/A</u>		<input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped	
(From ground surface) Casing Depth (ft.) _____		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
Lower Drillhole Diameter (in.) _____		Sealing Materials	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Neat Cement Grout	
If Yes, To What Depth? _____ Feet		<input type="checkbox"/> Sand-Cement (Concrete) Grout	
Depth to Water (feet) _____		<input type="checkbox"/> Concrete	
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
		<input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Bentonite Chips	
		For monitoring wells and monitoring well boreholes only	
		<input type="checkbox"/> Bentonite Chips	
		<input type="checkbox"/> Granular Bentonite	
		<input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Bentonite - Sand Slurry	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT					

(6) Comments: GP#16

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment
THEIN WELL COMPANY		9/19/02
Signature of Person Doing Work	Date Signed	
<i>[Signature]</i>	10/24/02	
Street or Route	Telephone Number	
P.O. BOX 422	(320) 847-3207	
City, State, Zip Code		
CLARA CITY, MN 56222		

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

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Route for: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		DOUGLAS	SUPERIOR WATER, LIGHT & POWER
Common Well Name		Gov't Lot (if applicable)	Facility ID
			License/Permit/Monitoring No.
SW 1/4 of SW 1/4 of Sec. 13 ; T. 49 N.; R. 14		<input type="checkbox"/> E <input checked="" type="checkbox"/> W	Street Address of Well
Grid Location			WINNER STREET @ WATER STREET
ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.			City, Village, or Town
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>			SUPERIOR, WI
Lat. " " Long. " "			Present Well Owner
St. Plane ft. N. ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone			Original Owner
Reason For Abandonment		WI Unique Well No.	City, State, Zip Code
BORE HOLE ONLY		of Replacement Well	
SAME AS ABOVE			

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date <u>9/18/02</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Monitoring Well		Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Water Well		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Construction Type:		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Other (Specify) _____		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Formation Type:		If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Required Method of Placing Sealing Material	
Total Well Depth (ft.) <u>7 1/2'</u> Casing Diameter (in.) <u>N/A</u>		<input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped	
(From ground surface) Casing Depth (ft.) _____		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____	
Lower Drillhole Diameter (in.) _____		Sealing Materials	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Neat Cement Grout	
If Yes, To What Depth? _____ Feet		<input type="checkbox"/> Sand-Cement (Concrete) Grout	
Depth to Water (feet) _____		<input type="checkbox"/> Concrete	
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
		<input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Bentonite Chips	
		For monitoring wells and monitoring well boreholes only	
		<input type="checkbox"/> Bentonite Chips	
		<input type="checkbox"/> Granular Bentonite	
		<input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Bentonite - Sand Slurry	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT	Surface	7 1/2	1/2		

(6) Comments: GP#17

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
THEIN WELL COMPANY		9/19/02	
Signature of Person Doing Work		Date Signed	
<i>[Signature]</i>		10/24/02	
Street or Route		Telephone Number	
P.O. BOX 422		(320) 847-3207	
City, State, Zip Code			
CLARA CITY, MN 56222			

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		DOUGLAS	SUPERIOR WATER, LIGHT & POWER
Common Well Name _____ Gov't Lot (If applicable) _____		Facility ID _____	License/Permit/Monitoring No. _____
SW 1/4 of SW 1/4 of Sec. 13 ; T. 49 N; R. 14 <input type="checkbox"/> E <input checked="" type="checkbox"/> W		Street Address of Well	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S, _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		WINTER STREET @ WATER STREET	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		City, Village, or Town	
Lat: _____ Long _____ or _____		SUPERIOR, WI	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		Present Well Owner _____ Original Owner _____	
Reason For Abandonment		SAME AS ABOVE	
BORE HOLE ONLY		Street Address or Route of Owner _____	
WI Unique Well No. _____ of Replacement Well _____		City, State, Zip Code _____	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date <u>9/18/02</u>	If a Well Construction Report is available, please attach.	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	Required Method of Placing Sealing Material
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Screened & Poured (Bentonite Chips)
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft.) <u>20'</u> Casing Diameter (in.) <u>N/A</u>		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
(From ground surface) Casing Depth (ft.) _____		Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Lower Drillhole Diameter (in.) _____		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		If Yes, Was Hole Restopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes, To What Depth? _____ Feet			
Depth to Water (Feet) _____			

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT	Surface	20	1		

(6) Comments: GP#18

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
THEIN WELL COMPANY		9/19/02	
Signature of Person Doing Work _____		Date Signed _____	
Street or Route _____		10/24/02	
P.O. BOX 422		Telephone Number _____	
City, State, Zip Code _____		(320) 847-3207	
STADA CITY, MN 56222			

FOR DNR OR COUNTY USE ONLY	
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Comments _____	

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		DOUGLAS	SUPERIOR WATER, LIGHT & POWER
Common Well Name	Gov't Lot (if applicable)		Facility ID
			License/Permit/Monitoring No.
SW 1/4 of SW 1/4 of Sec. 13 ; T. 49 N; R. 14	<input type="checkbox"/> E	<input checked="" type="checkbox"/> W	Street Address of Well
Grid Location			WINTER STREET @ WATER STREET
ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.			City, Village, or Town
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>			SUPERIOR, WI
Lat. " Long "			Present Well Owner
St. Plane ft. N. ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone			Original Owner
Reason For Abandonment	WI Unique Well No. of Replacement Well	City, State, Zip Code	
BORE HOLE ONLY		SAME AS ABOVE	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date	If a Well Construction Report is available, please attach.	Pump & Piping Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Construction Type:		Screen Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Casing Left in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Formation Type:		Was Casing Cut Off Below Surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did Sealing Material Rise to Surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Total Well Depth (ft.) 16' Casing Diameter (in.) N/A		Did Material Settle After 24 Hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(From ground surface) Casing Depth (ft.)		If Yes, Was Hole Retopped?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Lower Drillhole Diameter (in.)		Required Method of Placing Sealing Material	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped	
If Yes, To What Depth? Feet		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
Depth to Water (Feet)		Sealing Materials	
		<input checked="" type="checkbox"/> Neat Cement Grout	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	
		<input type="checkbox"/> Concrete	
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
		<input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Bentonite Chips	
		For monitoring wells and monitoring well boreholes only	
		<input type="checkbox"/> Bentonite Chips	
		<input type="checkbox"/> Granular Bentonite	
		<input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Bentonite - Sand Slurry	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT	Surface	16'	1		

(6) Comments: GP#19

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment
THEIN WELL COMPANY		9/19/02
Signature of Person Doing Work	Date Signed	
<i>[Signature]</i>	10/24/02	
Street or Route	Telephone Number	
P.O. BOX 422	(320) 847-3207	
City, State, Zip Code		
CLARA CITY, MN 56222		

FOR DNR OR COUNTY USE ONLY	
Date Received:	Noted By:
Comments:	

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		DOUGLAS	SUPERIOR WATER, LIGHT & POWER
Common Well Name	Gov't Lot (if applicable)		Facility ID
			License/Permit/Monitoring No.
Grid Location	Street Address of Well		
SW 1/4 of SW 1/4 of Sec. 13 ; T. 49 N; R. 14	WINTER STREET @ WATER STREET		
ft. <input type="checkbox"/> N. <input type="checkbox"/> S., <input type="checkbox"/> E. <input type="checkbox"/> W.	City, Village, or Town		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	SUPERIOR, WI		
Lat. _____ Long. _____ or _____	Present Well Owner	Original Owner	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone	SAME AS ABOVE		Street Address or Route of Owner
Reason For Abandonment	WI Unique Well No.	City, State, Zip Code	
BORE HOLE ONLY	of Replacement Well _____		

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date	If a Well Construction Report is available, please attach.	Pump & Piping Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Construction Type:		Screen Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Casing Left in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Other (Specify) _____		Was Casing Cut Off Below Surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Formation Type:		Did Sealing Material Rise to Surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did Material Settle After 24 Hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Total Well Depth (ft.)	Casing Diameter (in.)	If Yes, Was Hole Retopped?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
16'	N/A		
(From ground surface)	Casing Depth (ft.)	Required Method of Placing Sealing Material	
		<input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped	
Lower Drillhole Diameter (in.)		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Sealing Materials	For monitoring wells and monitoring well boreholes only
If Yes, To What Depth? _____ Feet		<input checked="" type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Bentonite Chips
Depth to Water (Feet)		<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Granular Bentonite
		<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite - Cement Grout
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	<input type="checkbox"/> Bentonite - Sand Slurry
		<input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Bentonite Chips	

(5) Material Used To Fill Well/Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT	Surface	16'	1		

(6) Comments: GP#20

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment
THEIN WELL COMPANY		9/19/02
Signature	Date Signed	
<i>[Signature]</i>	10/24/02	
Street or Route	Telephone Number	
P.O. BOX 422	(320) 847-3207	
City, State, Zip Code		
CLARA CITY, MN 56222		

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County DOUGLAS	
Common Well Name _____ Gov't Lot (If applicable) _____		Facility Name SUPERIOR WATER, LIGHT & POWER	
SW 1/4 of SW 1/4 of Sec. 13 : T. 49 N; R. 14 <input type="checkbox"/> E <input checked="" type="checkbox"/> W		Facility ID	License/Permit/Monitoring No.
_____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Street Address of Well WINTER STREET @ WATER STREET	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		City, Village, or Town SUPERIOR, WI	
Lat. _____ Long _____ or _____ " _____ "		Present Well Owner	Original Owner
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		SAME AS ABOVE	
Reason For Abandonment BORE HOLE ONLY		Street Address or Route of Owner	
WI Unique Well No. of Replacement Well _____		City, State, Zip Code	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date <u>9/18/02</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Monitoring Well		Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Water Well		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft.) <u>16'</u> Casing Diameter (in.) <u>N/A</u>		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
(From ground surface) Casing Depth (ft.) _____		If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Lower Drillhole Diameter (in.) _____		Required Method of Placing Sealing Material	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped	
If Yes, To What Depth? _____ Feet		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
Depth to Water (Feet) _____		Sealing Materials	
		<input checked="" type="checkbox"/> Neat Cement Grout	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	
		<input type="checkbox"/> Concrete	
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
		<input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Bentonite Chips	
		For monitoring wells and monitoring well boreholes only	
		<input type="checkbox"/> Bentonite Chips	
		<input type="checkbox"/> Granular Bentonite	
		<input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Bentonite - Sand Slurry	

(5)	Material Used To Fill Well/Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
	NEAT CEMENT	Surface	16	1		

(6) Comments: GP#21

(7) Name of Person or Firm Doing Sealing Work THEIN WELL COMPANY		Date of Abandonment 9/19/02
Signature of Person Doing Work <i>[Signature]</i>		Date Signed 10/24/02
Street or Route P.O. BOX 422		Telephone Number (320) 847-3207
City, State, Zip Code CLARA CITY, MN 56222		

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	
		DOUGLAS	
Common Well Name		Gov't Lot (if applicable)	
Grid Location		Street Address of Well	
SW 1/4 of SW 1/4 of Sec. 13; T. 49 N; R. 14		WINTER STREET @ WATER STREET	
City, Village, or Town		SUPERIOR, WI	
Present Well Owner		Original Owner	
SAME AS ABOVE			
Street Address or Route of Owner		City, State, Zip Code	
Reason For Abandonment		WI Unique Well No. of Replacement Well	
BORE HOLE ONLY			

(3) WELL/DRILLHOLE/BORHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date		Pump & Piping Removed?	
9/18/02		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Monitoring Well		Liner(s) Removed?	
<input type="checkbox"/> Water Well		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input checked="" type="checkbox"/> Borehole / Drillhole		Screen Removed?	
If a Well Construction Report is available, please attach.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
Construction Type:		Casing Left in Place?	
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Other (Specify)		Was Casing Cut Off Below Surface?	
Formation Type:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did Sealing Material Rise to Surface?	
Total Well Depth (ft.)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
16'		Did Material Settle After 24 Hours?	
Casing Diameter (in.)		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
N/A		If Yes, Was Hole Retopped?	
Casing Depth (ft.)		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Lower Drillhole Diameter (in.)		Required Method of Placing Sealing Material	
Was Well Annular Space Grouted?		<input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
If Yes, To What Depth? Feet		Sealing Materials	
Depth to Water (feet)		<input checked="" type="checkbox"/> Neat Cement Grout	
		For monitoring wells and monitoring well boreholes only	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	
		<input type="checkbox"/> Concrete	
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
		<input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Bentonite Chips	

(5) Material Used To Fill Well/Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT	Surface	16	1		

(6) Comments: GP# 22

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
THEIN WELL COMPANY		9/19/02	
Signature of Person Doing Work		Date Signed	
<i>[Signature]</i>		10/24/02	
Street or Route		Telephone Number	
P.O. BOX 422		(320) 847-3207	
City, State, Zip Code			
CLARA CITY, MN 56222			

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drilling Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		DOUGLAS	SUPERIOR WATER, LIGHT & POWER
Common Well Name		Gov't Lot (if applicable)	Facility ID
			License/Permit/Monitoring No.
Grid Location		Street Address of Well	City, Village, or Town
SW 1/4 of SW 1/4 of Sec. 13; T. 49 N.; R. 14 E. W		WINTER STREET @ WATER STREET	SUPERIOR, WI
Local Grid Origin		Present Well Owner	Original Owner
(estimated:) or Well Location		SAME AS ABOVE	
Lat. Long. or		Street Address or Route of Owner	
St. Plane ft. N. ft. E. Zone		City, State, Zip Code	
Reason For Abandonment		WI Unique Well No. of Replacement Well	
BORE HOLE ONLY			

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date	If a Well Construction Report is available, please attach.	Pump & Piping Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Construction Type:		Screen Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Casing Left in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Formation Type:		Was Casing Cut Off Below Surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did Sealing Material Rise to Surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Total Well Depth (ft.) 16' Casing Diameter (in.) N/A		Did Material Settle After 24 Hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(From ground surface) Casing Depth (ft.)		If Yes, Was Hole Retopped?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Lower Drillhole Diameter (in.)		Required Method of Placing Sealing Material	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped	
If Yes, To What Depth? Feet		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
Depth to Water (Feet)		Sealing Materials	
		<input checked="" type="checkbox"/> Neat Cement Grout	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	
		<input type="checkbox"/> Concrete	
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
		<input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Bentonite Chips	
		For monitoring wells and monitoring well boreholes only	
		<input type="checkbox"/> Bentonite Chips	
		<input type="checkbox"/> Granular Bentonite	
		<input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Bentonite - Sand Slurry	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
NEAT CEMENT	Surface	16	1		

(6) Comments: GR#23

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment
THEIN WELL COMPANY		9/19/02
Signature of Person Doing Work	Date Signed	
<i>[Signature]</i>	10/24/02	
Street or Route	Telephone Number	
P.O. BOX 422	(320) 847-3207	
City, State, Zip Code		
CLARA CITY, MN 56222		

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

APPENDIX B

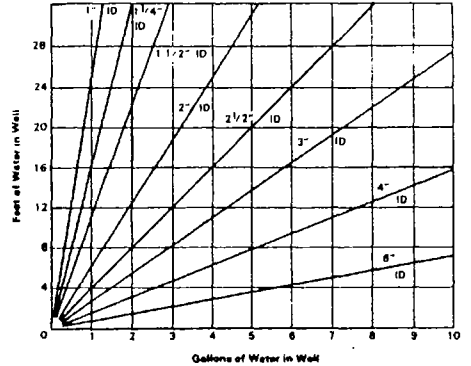
Groundwater Collection Logs

GROUND WATER SAMPLE COLLECTION RECORD

Project No. 09413-098 Date 9/20/02 Time: Start 915 am/pm
 Project Name Superior WL+P M&P Finish 945 am/pm
 Location Superior, WI
 Weather Conds.: 60's, partly sunny Collector C. Boehm

1. WATER LEVEL DATA: (measured from ToC)

- a. Total Well Length 20.3 Well Casing Type PVC
- b. Water Table Depth 8.58 Casing Diameter 2"
- c. Length of Water Column _____ (a-b)
- d. Calculated Purgeable Volume _____



2. WELL PURGEABLE DATA

- a. Purge Method Peristaltic Pump
- b. Required Purge Volume (@ _____ well volumes) _____
- c. Field Testing: Equipment Used Quanta HydroLab

Volume Removed	(c) T°	PH	(ms/cm) Spec. Cond.	(mV) ORP	Color	Other
<u>9.90 #</u>	<u>7.86</u>	<u>2.12</u>	<u>57</u>	<u>clear</u>		

3. SAMPLE COLLECTION:

Method Peristaltic Pump

Container Type	Preservation	Analysis Req.
<u>40 mL vial</u>	<u>HCl</u>	<u>VOC 82960</u>
<u>1 liter glass</u>	<u>none</u>	<u>PAH 8270</u>

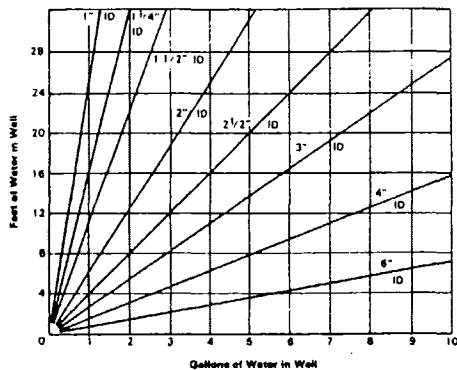
Comments low flow sampling. Well doesn't recharge. ~~so~~
very low flow used and Did not purge

GROUND WATER SAMPLE COLLECTION RECORD

Project No. 09413-098 Date 9/18/02 Time: Start _____ am/pm
 Project Name SWL+P MGP Finish _____ am/pm
 Location Superior, WI
 Weather Conds.: 60's, partly sunny Collector C. Boehm

1. WATER LEVEL DATA: (measured from ToC)

- a. Total Well Length 20.3 Well Casing Type PVC
- b. Water Table Depth 4.65 Casing Diameter 2"
- c. Length of Water Column 16' (a,b)
- d. Calculated Purgeable Volume 2.6 gal



2. WELL PURGEABLE DATA

- a. Purge Method ~~di~~ peristaltic pump
- b. Required Purge Volume (@ _____ well volumes) _____
- c. Field Testing: Equipment Used Quanta Hydrolab

Volume Removed	T°	PH	Spec. Cond.	ORP	Color	Other
<u>1630</u>	<u>14.91</u>	<u>7.84</u>	<u>1.72</u>	<u>59</u>	<u>clear</u>	<u>no purge sampled first then took readings</u>

3. SAMPLE COLLECTION:

Method Peristaltic Pump

Container Type	Preservation	Analysis Req.
<u>40 mL vial</u>	<u>HCl</u>	<u>VOC</u>
<u>1 liter glass</u>	<u>none</u>	<u>PAH</u>

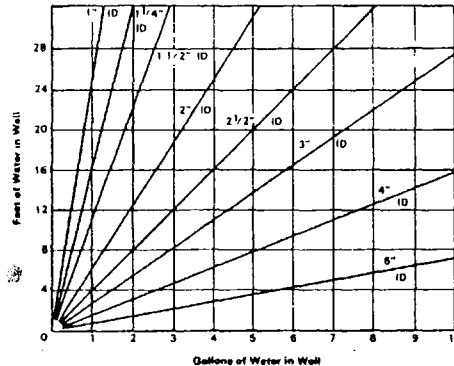
Comments low flow sampling - well doesn't recharge did not purge

GROUND WATER SAMPLE COLLECTION RECORD

Project No. 09413-098- Date 9/18/02 Time: Start 1000 am/pm
 Project Name SWL+P M&P Finish 1020 am/pm
 Location Superior, WI
 Weather Conds.: 60's, sunny Collector C. Boehm

1. WATER LEVEL DATA: (measured from ToC)

- a. Total Well Length 20.3 Well Casing Type PVC
- b. Water Table Depth 4.94 Casing Diameter 2"
- c. Length of Water Column _____ (a-b)
- d. Calculated Purgeable Volume _____



2. WELL PURGEABLE DATA

- a. Purge Method peristaltic pump
- b. Required Purge Volume (@ _____ well volumes) _____
- c. Field Testing: Equipment Used Quanta Hydrolab

Volume Removed	T°	PH	Spec. Cond.	ORP	Color	Other
	<u>14.33</u>	<u>7.82</u>	<u>1.480</u>	<u>47</u>	<u>clear</u>	

3. SAMPLE COLLECTION:

Method Peristaltic Pump

Container Type	Preservation	Analysis Req.
<u>40 mL vial</u>	<u>HCl</u>	<u>VOC</u>
<u>1 liter glass</u>	<u>none</u>	<u>PAH</u>

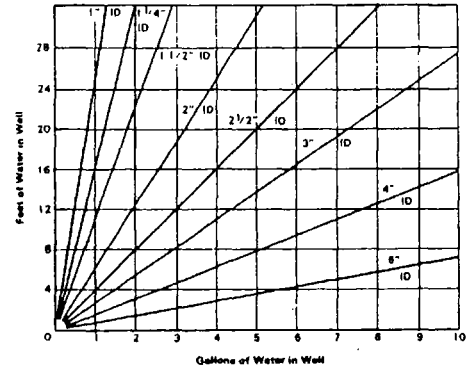
Comments low flow sampling
well doesn't recharge - did not purge

GROUND WATER SAMPLE COLLECTION RECORD

Project No. 09413-098 Date 9/15/02 Time: Start 10 30 am/pm
 Project Name SWL+P MGP Finish 10 50 am/pm
 Location Superior, WI
 Weather Conds.: 60s, sunny Collector C. Boehm

1. WATER LEVEL DATA: (measured from ToC)

- a. Total Well Length 20.3 Well Casing Type PVC
- b. Water Table Depth 6.80 Casing Diameter 2"
- c. Length of Water Column _____ (a-b)
- d. Calculated Purgeable Volume _____



2. WELL PURGEABLE DATA

- a. Purge Method ~~Hand~~ Peristaltic Pump
- b. Required Purge Volume (@ _____ well volumes) _____
- c. Field Testing: Equipment Used Quanta Hydrolab

Volume Removed _____ T° 11.55 PH 7.50 Spec. Cond. 4.34 ORP 37 Color clear Other odor

3. SAMPLE COLLECTION: Method Peristaltic Pump

Container Type	Preservation	Analysis Req.
<u>40 mL glass vial</u>	<u>HCL</u>	<u>VOC</u>
<u>1 liter amber</u>	<u>none</u>	<u>PAH</u>

Comments Low flow sampling - did not purge
Well doesn't recharge

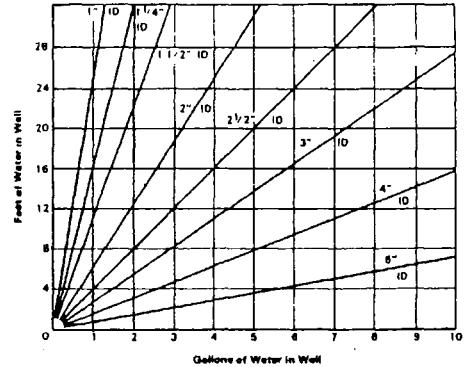
Collected MW-4 @ 1050
collected MW-4 - dup @ 1055

GROUND WATER SAMPLE COLLECTION RECORD

Project No. 09413-098 Date 9/18/02 Time: Start 1700 am/pm
 Project Name SWL+P M&P Finish 1730 am/pm
 Location Superior, WI
 Weather Conds.: 60's, sunny Collector C. Boehm

1. WATER LEVEL DATA: (measured from ToC)

- a. Total Well Length 20.3 Well Casing Type PVC
- b. Water Table Depth 6.57 Casing Diameter 2"
- c. Length of Water Column 14' (a-b)
- d. Calculated Purgeable Volume 2 1/4



2. WELL PURGEABLE DATA

- a. Purge Method peristaltic pump
- b. Required Purge Volume (@ _____ well volumes) _____
- c. Field Testing: Equipment Used Quanta Hydro lab

time	Volume Removed	T°	PH	Spec. Cond.	ORP	Color	Other volume
	<u>1720</u>	<u>12.24</u>	<u>8.5</u>	<u>1.151</u>	<u>-23</u>	<u>clear</u>	
	<u>1725</u>	<u>11.90</u>	<u>8.23</u>	<u>1.123</u>	<u>-20</u>	<u>"</u>	
	<u>1730</u>	<u>11.66</u>	<u>7.95</u>	<u>1.189</u>	<u>-19</u>		
	<u>1738</u>	<u>11.62</u>	<u>7.77</u>	<u>1.204</u>	<u>-19</u>		

3. SAMPLE COLLECTION: Method Peristaltic pump

Container Type	Preservation	Analysis Req.
<u>40 ml vial</u>	<u>none HCl</u>	<u>VOC</u>
<u>1 liter amber</u>	<u>none</u>	<u>PAH</u>

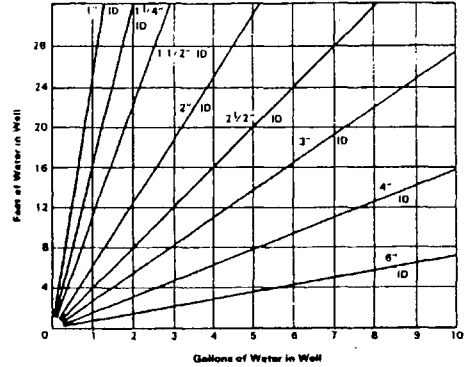
Comments low flow sampling

GROUND WATER SAMPLE COLLECTION RECORD

Project No. 09413-098 Date 9/18/02 Time: Start 1630 am/pm
 Project Name SWLTP MGP Finish 1650 am/pm
 Location Superior, WI
 Weather Conds.: 60's, partly sunny Collector C. Boehm

1. WATER LEVEL DATA: (measured from ToC)

- a. Total Well Length 20.3 Well Casing Type PVC
- b. Water Table Depth 9.63 Casing Diameter 2"
- c. Length of Water Column _____ (a-b)
- d. Calculated Purgeable Volume _____



2. WELL PURGEABLE DATA

- a. Purge Method Peristaltic Pump
- b. Required Purge Volume (@ _____ well volumes) _____
- c. Field Testing: Equipment Used Quanta Hydro lab

Volume Removed	T°	PH	Spec. Cond.	ORP	Color	Other (gal)
1634	15	12.18	5.98	-120	clear	0
1637	14.72	12.32	6.17	-120	"	1
1640	14.72	12.38	6.27	-115	"	2
1643	14.71	12.42	6.39	-107	"	3
1647	14.71	12.45	6.48	-102	"	4

3. SAMPLE COLLECTION: Method Peristaltic Pump

Container Type	Preservation	Analysis Req.
<u>40 mL vial</u>	<u>HCl</u>	<u>VOC</u>
<u>1 liter glass</u>	<u>none</u>	<u>PAH</u>

Comments Low flow sampling

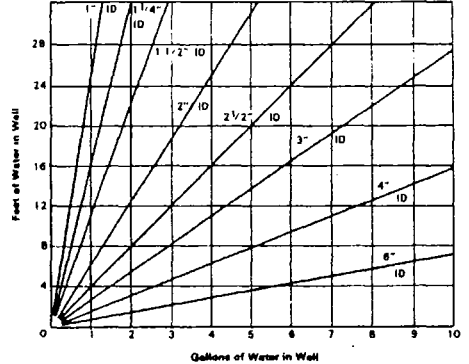
Collected MW-6 at 1650
Collected MW-6-dup at 1655

GROUND WATER SAMPLE COLLECTION RECORD

Project No. 09413-098 Date 9/18/02 Time: Start 8:15:40 am/pm
 Project Name SWL+P MGP Finish 1615 am/pm
 Location Superior, WI
 Weather Conds.: 100's, partly sunny Collector C. Boehm

1. WATER LEVEL DATA: (measured from ToC)

- a. Total Well Length 20.3 Well Casing Type PVC
- b. Water Table Depth 11.31 Casing Diameter 2"
- c. Length of Water Column _____ (a-b)
- d. Calculated Purgeable Volume _____



2. WELL PURGEABLE DATA

- a. Purge Method Peristaltic Pump
- b. Required Purge Volume (@ _____ well volumes) _____
- c. Field Testing: Equipment Used Quanta Hydrolab

Volume Removed	T°	PH	Spec. Cond.	ORP	Color	Other volume (gal)
<u>1603</u>	<u>10.44</u>	<u>8.03</u>	<u>1.198</u>	<u>-59</u>	<u>clear, odor</u>	<u>0</u>
<u>1606</u>	<u>10.39</u>	<u>7.94</u>	<u>1.198</u>	<u>-63</u>		<u>1</u>
<u>1609</u>	<u>10.39</u>	<u>7.90</u>	<u>1.201</u>	<u>-70</u>		<u>2</u>
<u>1612</u>	<u>10.30</u>	<u>7.89</u>	<u>1.216</u>	<u>-78</u>		<u>3</u>
<u>1616</u>	<u>10.30</u>	<u>7.85</u>	<u>1.214</u>	<u>-86</u>		<u>4</u>

3. SAMPLE COLLECTION: Method Peristaltic Pump

Container Type	Preservation	Analysis Req.
<u>40 mL vial</u>	<u>HCl</u>	<u>VOC</u>
<u>1 liter amber</u>	<u>none</u>	<u>PAH</u>

Comments low flow sampling.

0.3 gal/min

2002 / 50 sec

APPENDIX C
Survey of Site Map

APPENDIX D

Photographs of Test Trench



Photo 1: View of 5-inch steel pipe at south end of excavation with building in background.



Photo 2: View of timber box discovered surrounding the steel pipe. The soil type is the gray lime-like fill material.



Photo 3: View of excavation looking down with water in bottom of excavation from 12-inch clay pipe.



Photo 4: View of excavated material including soil, bricks, and cinders.



Photo 5: View of material in backhoe bucket, and collection of sample for lab analysis.

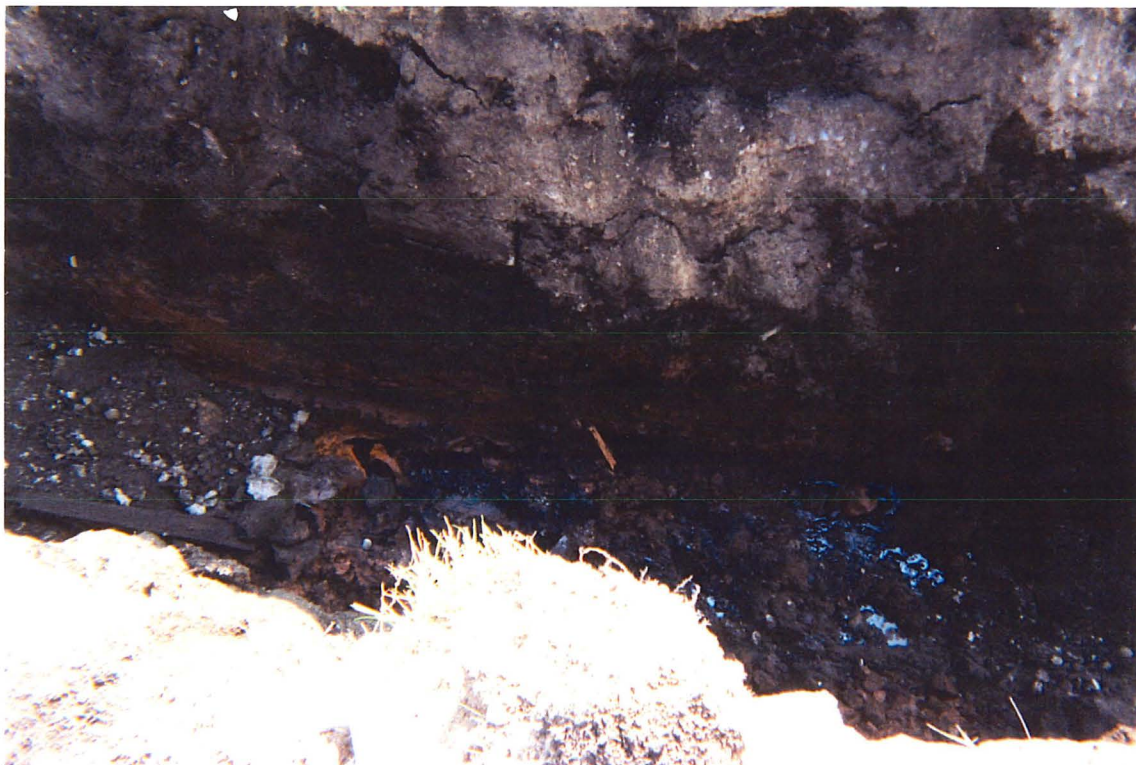


Photo 6: View of excavation with the clay pipe visible at the bottom of the trench.

APPENDIX E

Soil and Groundwater Laboratory Analytical Report

(Please Print Legibly)

Company Name: **ENSR**
 Branch or Location: **St. Louis Park**
 Project Contact: **Bill Gregg**
 Telephone: **952-924-0117**
 Project Number: **09413-098**
 Project Name: **SWL+P MGP**
 Project State: **WI**
 Sampled By (Print): **Chris Boehm**



1241 Bellevue St., Suite 9
 Green Bay, WI 54302
 920-469-2436
 FAX 920-469-8827

525 Science Drive
 Madison, WI 53711
 608-232-3300
 FAX: 608-233-0502

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH
 H = Sodium Bisulfate Solution I = Sodium Thiosulfate J = Other
 FILTERED? (YES/NO)
 PRESERVATION (CODE)*

ANALYSES REQUESTED	BTX	VOC	PAH	DW	Cyanide	TOTAL # OF BOTTLES SENT
	X	X	X	X	X	1
	X	X	X	X	X	3
	X	X	X	X	X	3
	X	X	X	X	X	3
	X	X	X	X	X	3
	X	X	X	X	X	3
	X	X	X	X	X	3
	X	X	X	X	X	3
	X	X	X	X	X	3
	X	X	X	X	X	3
	X	X	X	X	X	3

Page 1 of 2

P.O. # _____ Quote # _____

Mail Report To: **Bill Gregg**

Company: **ENSR**
 Address: **4500 Park Glen Rd, Suite 210
 St. Louis Park, MN 55416**

Invoice To: **Bill Gregg**

Company: **-same-**

Address: _____

Mail Invoice To: _____

Data Package Options - (please circle if requested)
 Sample Results Only (no QC)
 EPA Level II (Subject to Surcharge)
 EPA Level III (Subject to Surcharge)
 EPA Level IV (Subject to Surcharge)

Regulatory Program
 UST
 RCRA
 SDWA
 NPDES
 CERCLA

Matrix Codes
 W=Water
 S=Soil
 A=Air
 C=Charcoal
 B=Biota
 Sl=Sludge

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX	ANALYSES REQUESTED						TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	
		DATE	TIME		BTX	VOC	PAH	DW	Cyanide					
001	Methanol Blank	9/20/02	840	-	X							1	-20g m	
002	B-11-1-3		740	S	X	X	X					3	1-80g, 1-40g, 1-20g m	
003	B-11-10-12		810											
004	B-12-8-10		845											
005	B-13-15-16		940											
006	B-14-15-16		1040											
007	B-14-11-12		1045					X				1	8-0g	
008	B-15-1-3		1115		X	X	X					3	1-80g, 1-40g, 1-20g m	
009	B-15-6-8		1130											
010	B-16-6-8		1210											
011	B-17-6-8		1330											
012	B-18-10-12		1350											

Rush Turnaround Time Requested (TAT) - Prelim
 (Rush TAT subject to approval/surcharge)
 Date Needed: **standard**
 Transmit Prelim Rush Results by (circle):
 Phone Fax E-Mail
 Phone #: _____
 Fax #: _____
 E-Mail Address: _____

Relinquished By: **Chris Boehm** Date/Time: **9/20/02/1200**
 Relinquished By: **Tom Markku** Date/Time: **9-22-02 14:00**
 Relinquished By: **Ednam** Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: **Tom Markku** Date/Time: **9-20-02 12:00**
 Received By: **Dunham** Date/Time: **9-23-02 14:00**
 Received By: **R. Nicol** Date/Time: **9/24/02 8:30**
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

En Chem Project No: **825994**
 Sample Receipt Temp: **ROT**
 Sample Receipt pH (Metals): _____
 Cooler Custody Seal Present (Not Present): Present
 Intact / Not Intact: _____

(Please Print Legibly)

Company Name: **ENSR**

Branch or Location: **St. Louis Park**

Project Contact: **Bill Gregg**

Telephone: **952-924-0117**

Project Number: **09413-098**

Project Name: **SNL & P MGP**

Project State: **WI**

Sampled By (Print): **Chris Boehm**



1241 Bellevue St., Suite 9
Green Bay, WI 54302
920-469-2436
FAX 920-469-8827

525 Science Drive
Madison, WI 53711
608-232-3300
FAX: 608-233-0502

CHAIN OF CUSTODY

77791

Page **12** of **2**

A=None B=HCL C=H2SO4 D=HN03 E=EnCore F=Methanol G=NaOH
H = Sodium Bisulfate Solution I= Other

*Preservation Codes

Filtered? (YES/NO) _____

PRESERVATION (CODE)* **F A A**

P.O. # _____ Quote # _____

Mail Report To: **Bill Gregg**

Company: **ENSR**

Address: **4500 Park Glen Rd, Suite 210
St. Louis Park, MN 55416**

Invoice To: **- Same -**

Company: _____

Address: _____

Mail Invoice To: _____

Data Package Options
(please circle if requested)

Results Only

EnChem Level III (Subject to Surcharge)

EnChem Level IV (Subject to Surcharge)

Regulatory Program: **UST RCRA SDWA NPDES CERCLA**

Matrix Codes: **W=Water S=Soil A=Air C=Charcoal B=Biota SI=Sludge**

ANALYSES REQUESTED

VOC 8260

PAH 8270

DRY WEIGHT

TOTAL # OF BOTTLES SENT

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX	ANALYSES REQUESTED							TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
		DATE	TIME		VOC 8260	PAH 8270	DRY WEIGHT							
013	B-20-10-12	11/10/02	1445	S	X	X	X					3	1-80g, 1-40g, 1-20g	
014	B-21-10-12		1520											
015	B-21-10-12-dup		1525											
016	B-22-8-10		1550											
017	B-11-10-12		1420											

Rush Turnaround Time Requested (TAT) - Prelim
(Rush TAT subject to approval/surcharge)

Date Needed: **standard**

Transmit Prelim Rush Results by (circle):
Phone Fax E-Mail

Phone #: _____

Fax #: _____

E-Mail Address: _____

Special pricing and release of liability

Relinquished By: Chris Boehm	Date/Time: 9/20/02 12:00	Received By: Sam Mathew	Date/Time: 9-20-02 12:00
Relinquished By: Sam Mathew	Date/Time: 9-23-02 14:00	Received By: Boehm	Date/Time: 9-23-02 14:00
Relinquished By: Boehm	Date/Time: _____	Received By: R Jacobs	Date/Time: 9/24/02 3
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

En Chem Project No: **825944**

Sample Receipt Temp: **RAT**

Sample Receipt pH (Metals): _____

Cooler Custody Seal Present / Not Present: _____



Corporate Office & Laboratory
1241 Bellevue Street, Suite 9 • Green Bay, WI 54302
920-469-2436 • FAX: 920-469-8827 • 800-7-ENCHEM
www.enchem.com

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Client: ENSR CORPORATION

WI DNR LAB ID : 405132750


Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
825994-001	METHANOL BLANK	9/19/02			
825994-002	B-11-1-3	9/19/02			
825994-003	B-11-10-12	9/19/02			
825994-004	B-12-8-10	9/19/02			
825994-005	B-13-15-16	9/19/02			
825994-006	B-14-15-16	9/19/02			
825994-007	B-14-11-12	9/19/02			
825994-008	B-15-1-3	9/19/02			
825994-009	B-15-6-8	9/19/02			
825994-010	B-16-6-8	9/19/02			
825994-011	B-17-6-8	9/19/02			
825994-012	B-18-10-12	9/19/02			
825994-013	B-20-10-12	9/19/02			
825994-014	B-21-10-12	9/19/02			
825994-015	B-21-10-12-DUP	9/19/02			
825994-016	B-22-8-10	9/19/02			
825994-017	B-19-10-12	9/19/02			

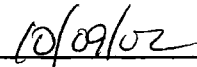
Please visit our Internet homepage at: www.enchem.com

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.


Approval Signature


Date

En Chem, Inc. Cooler Receipt Log

Batch No. 825994

Project Name or ID SWLHP MGP No. of Coolers: _____ Temps: ROT

A. Receipt Phase: Date cooler was opened: 9/24/02 By: RJ

- 1: Were samples received on ice? (Must be ≤ 6 C)..... YES NO²
- 2: Was there a Temperature Blank?..... YES NO
- 3: Were custody seals present and intact? (Record on COC)..... YES NO
- 4: Are COC documents present?..... YES NO²
- 5: Does this Project require quick turn around analysis?..... YES NO
- 6: Is there any sub-work?..... YES NO
- 7: Are there any short hold time tests?..... YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES¹ NO Contacted by/Who _____
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES¹ NO Contacted by/Who _____

B. Check-in Phase: Date samples were Checked-in: 9-24-02 By: RJ

- 1: Were all sample containers listed on the COC received and intact?..... YES NO² NA
- 2: Sign the COC as received by En Chem. Completed..... YES NO
- 3: Do sample labels match the COC? YES NO²
- 4: Check sample pH of preserved samples. (Not VOCs) Completed..... YES NO NA
- 5: Do samples have correct chemical preservation?..... YES NO² NA
- 6: Are dissolved parameters field filtered?..... YES NO² NA
- 7: Are sample volumes adequate for tests requested? YES NO²
- 8: Are VOC samples free of bubbles >6mm YES NO² NA
- 9: Enter samples into logbook. Completed..... PRE # YES NO
- 10: Place laboratory sample number on all containers and COC. Completed..... YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed..... YES NO NA
- 12: Start Nonconformance form. YES NO NA
- 13: Initiate Subcontracting procedure. Completed..... YES NO NA
- 14: Check laboratory sample number on all containers and COC. 1 YES NO NA

Short Hold-time tests:

48 Hours or less Coliform (6 hrs) Hexavalent Chromium (24 Hrs) BOD Nitrite or Nitrate Low Level Mercury Ortho Phosphorus Turbidity Surfactants Sulfite En Core Preservation Color	7 days Flashpoint TSS Total Solids TDS Sulfide Free Liquids Total Volatile Solids Aqueous Extractable Organics- ALL Unpreserved VOC's Ash	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
--	---	--

Rev. 9/5/2001, Attachment to 1-REC-5.
 Subject to QA Audit.

Reviewed by/date WJ/rope 1

En Chem Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
800-7-ENCHEM
Fax: 920-469-8827

Lab Sample Number	Test Group Name	Wisconsin Cert #
825994-007	CYANIDE, TOTAL	113172950
825994-007	SOLIDS, PERCENT	113172950

Lab#:	TestGroupID:	Comment:
825994-002 B-11-1-3	8260+-S-ME	F - Surrogate was below control criteria. This was confirmed by a prior analysis on 09/25/2002.
825994-003 B-11-10-12	8260+-S-ME	F - Surrogates were diluted out of sample.
825994-004 B-12-8-10	8260+-S-ME	F - Surrogates were diluted out of sample.
825994-009 B-15-6-8	8260+-S-ME	F - Surrogates were diluted out of sample.

Organic Data Qualifiers

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit.
- D Analyte value from diluted analysis, or surrogate result not applicable due to sample dilution.
- E Analyte concentration exceeds calibration range.
- F Surrogate results outside control criteria.
- H Extraction or analysis performed past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection limit may be elevated due to the presence of an unrequested analyte.
- N Spiked sample recovery not within control limits.
- P The relative percent difference between the two columns for detected concentrations was greater than 40%.
- Q The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- S The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
- U The analyte was not detected above the reporting limit.
- W Sample received with headspace.
- X See Sample Narrative.
- & Laboratory Control Spike recovery not within control limits.
- * Duplicate analyses not within control limits.
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.

- Analytical Report -

Project Name : SWL&P MGP
 Project Number : 09413-098
 Field ID : METHANOL BLANK
 Lab Sample Number : 825994-001
 WI DNR LAB ID : 405132750

Client : ENSR CORPORATION
 Report Date : 10/9/02
 Collection Date : 9/19/02
 Matrix Type : METHANOL

Organic Results

BTEX - METHANOL

Prep Method: SW846 5030B Prep Date: 9/25/02 Analyst: PMS

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	104				%Recov		9/25/02	SW846 M8021B
Benzene	< 25	25	60		ug/l		9/25/02	SW846 M8021B
Ethylbenzene	< 25	25	60		ug/l		9/25/02	SW846 M8021B
Toluene	< 25	25	60		ug/l		9/25/02	SW846 M8021B
Xylenes, -m, -p	< 25	25	60		ug/l		9/25/02	SW846 M8021B
Xylene, -o	< 25	25	60		ug/l		9/25/02	SW846 M8021B

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-11-1-3

Lab Sample Number : 825994-002

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	70.6				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	2200	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-11-1-3

Lab Sample Number : 825994-002

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Ethylbenzene	120	25	60	ug/kg	9/27/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Naphthalene	3400	25	60	ug/kg	9/27/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Styrene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Toluene	900	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	130	25	60	ug/kg	9/27/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	79	25	60	ug/kg	9/27/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Xylenes, -m, -p	260	25	60	ug/kg	9/27/02	SW846 8260B
Xylene, -o	160	25	60	ug/kg	9/27/02	SW846 8260B
4-Bromofluorobenzene	87			%Recov	9/27/02	SW846 8260B
Dibromofluoromethane	< 0.5			%Recov	F 9/27/02	SW846 8260B
Toluene-d8	87			%Recov	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP
 Project Number : 09413-098
 Field ID : B-11-1-3
 Lab Sample Number : 825994-002
 WI DNR LAB ID : 405132750

Client : ENSR CORPORATION
 Report Date : 10/9/02
 Collection Date : 9/19/02
 Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545 Prep Date: 9/25/02 Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 23	23	73		ug/kg		10/2/02	SW846 8270C
Acenaphthylene	25	18	57		ug/kg	Q	10/2/02	SW846 8270C
Anthracene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Benzo(a)anthracene	52	19	61		ug/kg	Q	10/2/02	SW846 8270C
Benzo(a)pyrene	51	18	57		ug/kg	Q	10/2/02	SW846 8270C
Benzo(b)fluoranthene	30	16	51		ug/kg	Q	10/2/02	SW846 8270C
Benzo(g,h,i)perylene	54	16	51		ug/kg		10/2/02	SW846 8270C
Benzo(k)fluoranthene	43	18	57		ug/kg	Q	10/2/02	SW846 8270C
Chrysene	57	19	61		ug/kg	Q	10/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Fluoranthene	30	15	48		ug/kg	Q	10/2/02	SW846 8270C
Fluorene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	36	16	51		ug/kg	Q	10/2/02	SW846 8270C
1-Methylnaphthalene	73	20	64		ug/kg		10/2/02	SW846 8270C
2-Methylnaphthalene	74	17	54		ug/kg		10/2/02	SW846 8270C
Naphthalene	660	24	76		ug/kg		10/2/02	SW846 8270C
Phenanthrene	32	16	51		ug/kg	Q	10/2/02	SW846 8270C
Pyrene	98	17	54		ug/kg		10/2/02	SW846 8270C
Nitrobenzene-d5	53				%Recov		10/2/02	SW846 8270C
2-Fluorobiphenyl	71				%Recov		10/2/02	SW846 8270C
Terphenyl-d14	55				%Recov		10/2/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP
Project Number : 09413-098
Field ID : B-11-10-12
Lab Sample Number : 825994-003
WI DNR LAB ID : 405132750

Client : ENSR CORPORATION
Report Date : 10/9/02
Collection Date : 9/19/02
Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	63.6				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B Prep Date: 9/25/02 Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	240000	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 1000	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 1000	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-11-10-12

Lab Sample Number : 825994-003

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1-Dichloroethane	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
1,3-Dichloropropane	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
2,2-Dichloropropane	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1-Dichloropropene	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
cis-1,3-Dichloropropene	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
trans-1,3-Dichloropropene	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
Diisopropyl ether	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
Ethylbenzene	7200	25	60	ug/kg	9/27/02	SW846 8260B	
Fluorotrichloromethane	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
Hexachlorobutadiene	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
Isopropylbenzene	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
p-Isopropyltoluene	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
Methylene chloride	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
Methyl-tert-butyl-ether	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
Naphthalene	4800	25	60	ug/kg	9/27/02	SW846 8260B	
n-Propylbenzene	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
Styrene	40000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1,2,2-Tetrachloroethane	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1,1,2-Tetrachloroethane	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
Tetrachloroethene	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
Toluene	340000	25	60	ug/kg	9/27/02	SW846 8260B	
1,2,3-Trichlorobenzene	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
1,2,4-Trichlorobenzene	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1,1-Trichloroethane	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1,2-Trichloroethane	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
1,2,4-Trimethylbenzene	7100	25	60	ug/kg	9/27/02	SW846 8260B	
Trichloroethene	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
1,2,3-Trichloropropane	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
1,3,5-Trimethylbenzene	5200	25	60	ug/kg	9/27/02	SW846 8260B	
Vinyl chloride	< 1000	25	60	ug/kg	9/27/02	SW846 8260B	
Xylenes, -m, -p	130000	25	60	ug/kg	9/27/02	SW846 8260B	
Xylene, -o	35000	25	60	ug/kg	9/27/02	SW846 8260B	
4-Bromofluorobenzene	< 0.5			%Recov	F	9/27/02	SW846 8260B
Dibromofluoromethane	< 0.5			%Recov	F	9/27/02	SW846 8260B
Toluene-d8	< 0.5			%Recov	F	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-11-10-12

Lab Sample Number : 825994-003

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	3500	260	830		ug/kg		10/3/02	SW846 8270C
Acenaphthylene	930	200	640		ug/kg		10/3/02	SW846 8270C
Anthracene	2300	190	610		ug/kg		10/3/02	SW846 8270C
Benzo(a)anthracene	2700	210	670		ug/kg		10/3/02	SW846 8270C
Benzo(a)pyrene	2300	200	640		ug/kg		10/3/02	SW846 8270C
Benzo(b)fluoranthene	1200	170	540		ug/kg		10/3/02	SW846 8270C
Benzo(g,h,i)perylene	1900	180	570		ug/kg		10/3/02	SW846 8270C
Benzo(k)fluoranthene	1800	200	640		ug/kg		10/3/02	SW846 8270C
Chrysene	3400	210	670		ug/kg		10/3/02	SW846 8270C
Dibenzo(a,h)anthracene	460	170	540		ug/kg	Q	10/3/02	SW846 8270C
Fluoranthene	4200	170	540		ug/kg		10/3/02	SW846 8270C
Fluorene	2100	200	640		ug/kg		10/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	1200	180	570		ug/kg		10/3/02	SW846 8270C
1-Methylnaphthalene	3400	220	700		ug/kg		10/3/02	SW846 8270C
2-Methylnaphthalene	3400	190	610		ug/kg		10/3/02	SW846 8270C
Naphthalene	8900	270	860		ug/kg		10/3/02	SW846 8270C
Phenanthrene	9200	170	540		ug/kg		10/3/02	SW846 8270C
Pyrene	8100	190	610		ug/kg		10/3/02	SW846 8270C
Nitrobenzene-d5	54				%Recov		10/3/02	SW846 8270C
2-Fluorobiphenyl	55				%Recov		10/3/02	SW846 8270C
Terphenyl-d14	58				%Recov		10/3/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-12-8-10

Lab Sample Number : 825994-004

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	62.2				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	590000	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 5000	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 5000	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-12-8-10

Lab Sample Number : 825994-004

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1-Dichloroethane	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
1,3-Dichloropropane	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
2,2-Dichloropropane	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1-Dichloropropene	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
cis-1,3-Dichloropropene	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
trans-1,3-Dichloropropene	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
Diisopropyl ether	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
Ethylbenzene	45000	25	60	ug/kg	9/27/02	SW846 8260B	
Fluorotrichloromethane	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
Hexachlorobutadiene	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
Isopropylbenzene	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
p-Isopropyltoluene	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
Methylene chloride	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
Methyl-tert-butyl-ether	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
Naphthalene	57000	25	60	ug/kg	9/27/02	SW846 8260B	
n-Propylbenzene	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
Styrene	140000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1,2,2-Tetrachloroethane	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1,1,2-Tetrachloroethane	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
Tetrachloroethene	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
Toluene	1700000	25	60	ug/kg	9/27/02	SW846 8260B	
1,2,3-Trichlorobenzene	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
1,2,4-Trichlorobenzene	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1,1-Trichloroethane	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1,2-Trichloroethane	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
1,2,4-Trimethylbenzene	38000	25	60	ug/kg	9/27/02	SW846 8260B	
Trichloroethene	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
1,2,3-Trichloropropane	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
1,3,5-Trimethylbenzene	24000	25	60	ug/kg	9/27/02	SW846 8260B	
Vinyl chloride	< 5000	25	60	ug/kg	9/27/02	SW846 8260B	
Xylenes, -m, -p	540000	25	60	ug/kg	9/27/02	SW846 8260B	
Xylene, -o	150000	25	60	ug/kg	9/27/02	SW846 8260B	
4-Bromofluorobenzene	< 0.5			%Recov	F	9/27/02	SW846 8260B
Dibromofluoromethane	< 0.5			%Recov	F	9/27/02	SW846 8260B
Toluene-d8	< 0.5			%Recov	F	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP
Project Number : 09413-098
Field ID : B-12-8-10
Lab Sample Number : 825994-004
WI DNR LAB ID : 405132750

Client : ENSR CORPORATION
Report Date : 10/9/02
Collection Date : 9/19/02
Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545 Prep Date: 9/25/02 Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	820	530	1700		ug/kg	Q	10/3/02	SW846 8270C
Acenaphthylene	630	400	1300		ug/kg	Q	10/3/02	SW846 8270C
Anthracene	420	390	1200		ug/kg	Q	10/3/02	SW846 8270C
Benzo(a)anthracene	690	430	1400		ug/kg	Q	10/3/02	SW846 8270C
Benzo(a)pyrene	690	400	1300		ug/kg	Q	10/3/02	SW846 8270C
Benzo(b)fluoranthene	500	350	1100		ug/kg	Q	10/3/02	SW846 8270C
Benzo(g,h,i)perylene	1000	370	1200		ug/kg	Q	10/3/02	SW846 8270C
Benzo(k)fluoranthene	580	420	1300		ug/kg	Q	10/3/02	SW846 8270C
Chrysene	1000	430	1400		ug/kg	Q	10/3/02	SW846 8270C
Dibenzo(a,h)anthracene	< 350	350	1100		ug/kg		10/3/02	SW846 8270C
Fluoranthene	1500	340	1100		ug/kg		10/3/02	SW846 8270C
Fluorene	< 400	400	1300		ug/kg		10/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	710	370	1200		ug/kg	Q	10/3/02	SW846 8270C
1-Methylnaphthalene	2300	450	1400		ug/kg		10/3/02	SW846 8270C
2-Methylnaphthalene	3200	390	1200		ug/kg		10/3/02	SW846 8270C
Naphthalene	36000	550	1800		ug/kg		10/3/02	SW846 8270C
Phenanthrene	2200	350	1100		ug/kg		10/3/02	SW846 8270C
Pyrene	2000	390	1200		ug/kg		10/3/02	SW846 8270C
Nitrobenzene-d5	70				%Recov		10/3/02	SW846 8270C
2-Fluorobiphenyl	69				%Recov		10/3/02	SW846 8270C
Terphenyl-d14	61				%Recov		10/3/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP
Project Number : 09413-098
Field ID : B-13-15-16
Lab Sample Number : 825994-005
WI DNR LAB ID : 405132750

Client : ENSR CORPORATION
Report Date : 10/9/02
Collection Date : 9/19/02
Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	73.3				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B Prep Date: 9/25/02 Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	27000	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 100	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 100	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 100	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 100	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 100	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 100	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 100	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 100	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 100	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 100	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 100	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 100	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 100	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 100	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 100	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 100	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 100	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 100	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 100	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 100	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 100	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 100	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 100	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 100	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 100	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 100	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 100	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-13-15-16

Lab Sample Number : 825994-005

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 100	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloroethane	< 100	25	60	ug/kg	9/27/02	SW846 8260B
1,3-Dichloropropane	< 100	25	60	ug/kg	9/27/02	SW846 8260B
2,2-Dichloropropane	< 100	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloropropene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
Diisopropyl ether	< 100	25	60	ug/kg	9/27/02	SW846 8260B
Ethylbenzene	370	25	60	ug/kg	9/27/02	SW846 8260B
Fluorotrichloromethane	< 100	25	60	ug/kg	9/27/02	SW846 8260B
Hexachlorobutadiene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
Isopropylbenzene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
p-Isopropyltoluene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
Methylene chloride	< 100	25	60	ug/kg	9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 100	25	60	ug/kg	9/27/02	SW846 8260B
Naphthalene	460	25	60	ug/kg	9/27/02	SW846 8260B
n-Propylbenzene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
Styrene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 100	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 100	25	60	ug/kg	9/27/02	SW846 8260B
Tetrachloroethene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
Toluene	460	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 100	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 100	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	220	25	60	ug/kg	9/27/02	SW846 8260B
Trichloroethene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 100	25	60	ug/kg	9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	< 100	25	60	ug/kg	9/27/02	SW846 8260B
Vinyl chloride	< 100	25	60	ug/kg	9/27/02	SW846 8260B
Xylenes, -m, -p	260	25	60	ug/kg	9/27/02	SW846 8260B
Xylene, -o	< 100	25	60	ug/kg	9/27/02	SW846 8260B
4-Bromofluorobenzene	84			%Recov	9/27/02	SW846 8260B
Dibromofluoromethane	72			%Recov	9/27/02	SW846 8260B
Toluene-d8	84			%Recov	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-13-15-16

Lab Sample Number : 825994-005

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	82	23	73		ug/kg		10/2/02	SW846 8270C
Acenaphthylene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Anthracene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Benzo(a)anthracene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Benzo(a)pyrene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Benzo(b)fluoranthene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Benzo(g,h,i)perylene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Benzo(k)fluoranthene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Chrysene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Fluoranthene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Fluorene	23	17	54		ug/kg	Q	10/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
1-Methylnaphthalene	85	19	61		ug/kg		10/2/02	SW846 8270C
2-Methylnaphthalene	77	16	51		ug/kg		10/2/02	SW846 8270C
Naphthalene	42	23	73		ug/kg	Q	10/2/02	SW846 8270C
Phenanthrene	42	15	48		ug/kg	Q	10/2/02	SW846 8270C
Pyrene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Nitrobenzene-d5	71				%Recov		10/2/02	SW846 8270C
2-Fluorobiphenyl	70				%Recov		10/2/02	SW846 8270C
Terphenyl-d14	68				%Recov		10/2/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-14-15-16

Lab Sample Number : 825994-006

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	71.0				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	12000	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-14-15-16

Lab Sample Number : 825994-006

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Ethylbenzene	160	25	60	ug/kg		9/27/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Naphthalene	2900	25	60	ug/kg		9/27/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Styrene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Toluene	230	25	60	ug/kg		9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	71	25	60	ug/kg		9/27/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Xylenes, -m, -p	140	25	60	ug/kg		9/27/02	SW846 8260B
Xylene, -o	39	25	60	ug/kg	Q	9/27/02	SW846 8260B
4-Bromofluorobenzene	81			%Recov		9/27/02	SW846 8260B
Dibromofluoromethane	72			%Recov		9/27/02	SW846 8260B
Toluene-d8	80			%Recov		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-14-15-16

Lab Sample Number : 825994-006

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 23	23	73		ug/kg		10/1/02	SW846 8270C
Acenaphthylene	< 18	18	57		ug/kg		10/1/02	SW846 8270C
Anthracene	< 17	17	54		ug/kg		10/1/02	SW846 8270C
Benzo(a)anthracene	< 19	19	61		ug/kg		10/1/02	SW846 8270C
Benzo(a)pyrene	< 18	18	57		ug/kg		10/1/02	SW846 8270C
Benzo(b)fluoranthene	< 15	15	48		ug/kg		10/1/02	SW846 8270C
Benzo(g,h,i)perylene	< 16	16	51		ug/kg		10/1/02	SW846 8270C
Benzo(k)fluoranthene	< 18	18	57		ug/kg		10/1/02	SW846 8270C
Chrysene	< 19	19	61		ug/kg		10/1/02	SW846 8270C
Dibenzo(a,h)anthracene	< 15	15	48		ug/kg		10/1/02	SW846 8270C
Fluoranthene	< 15	15	48		ug/kg		10/1/02	SW846 8270C
Fluorene	< 18	18	57		ug/kg		10/1/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 16	16	51		ug/kg		10/1/02	SW846 8270C
1-Methylnaphthalene	< 20	20	64		ug/kg		10/1/02	SW846 8270C
2-Methylnaphthalene	< 17	17	54		ug/kg		10/1/02	SW846 8270C
Naphthalene	410	24	76		ug/kg	N	10/1/02	SW846 8270C
Phenanthrene	< 15	15	48		ug/kg		10/1/02	SW846 8270C
Pyrene	< 17	17	54		ug/kg		10/1/02	SW846 8270C
Nitrobenzene-d5	83				%Recov		10/1/02	SW846 8270C
2-Fluorobiphenyl	78				%Recov		10/1/02	SW846 8270C
Terphenyl-d14	86				%Recov		10/1/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-14-11-12

Lab Sample Number : 825994-007

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Cyanide, total	3.0	0.12	0.38		mg/kg		10/2/02	SW846 9010A	SW846 9010A	daw
Solids, percent	68.6			0.0100	%		1/2/02	SM2540G	SM2540G	KAH

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-15-1-3

Lab Sample Number : 825994-008

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	87.1				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	21000	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 50	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-15-1-3

Lab Sample Number : 825994-008

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloroethane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,3-Dichloropropane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
2,2-Dichloropropane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloropropene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Diisopropyl ether	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Ethylbenzene	5100	25	60	ug/kg	9/27/02	SW846 8260B
Fluorotrichloromethane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Hexachlorobutadiene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Isopropylbenzene	160	25	60	ug/kg	9/27/02	SW846 8260B
p-Isopropyltoluene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Methylene chloride	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Naphthalene	510	25	60	ug/kg	9/27/02	SW846 8260B
n-Propylbenzene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Styrene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Tetrachloroethene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Toluene	9300	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	980	25	60	ug/kg	9/27/02	SW846 8260B
Trichloroethene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	460	25	60	ug/kg	9/27/02	SW846 8260B
Vinyl chloride	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Xylenes, -m, -p	5800	25	60	ug/kg	9/27/02	SW846 8260B
Xylene, -o	1400	25	60	ug/kg	9/27/02	SW846 8260B
4-Bromofluorobenzene	78			%Recov	9/27/02	SW846 8260B
Dibromofluoromethane	76			%Recov	9/27/02	SW846 8260B
Toluene-d8	83			%Recov	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-15-1-3

Lab Sample Number : 825994-008

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	95	95	300		ug/kg	Q	10/3/02	SW846 8270C
Acenaphthylene	920	72	230		ug/kg		10/3/02	SW846 8270C
Anthracene	350	69	220		ug/kg		10/3/02	SW846 8270C
Benzo(a)anthracene	1600	77	250		ug/kg		10/3/02	SW846 8270C
Benzo(a)pyrene	1900	72	230		ug/kg		10/3/02	SW846 8270C
Benzo(b)fluoranthene	1700	63	200		ug/kg		10/3/02	SW846 8270C
Benzo(g,h,i)perylene	1900	66	210		ug/kg		10/3/02	SW846 8270C
Benzo(k)fluoranthene	1800	75	240		ug/kg		10/3/02	SW846 8270C
Chrysene	2200	77	250		ug/kg		10/3/02	SW846 8270C
Dibenzo(a,h)anthracene	570	63	200		ug/kg		10/3/02	SW846 8270C
Fluoranthene	1600	60	190		ug/kg		10/3/02	SW846 8270C
Fluorene	110	72	230		ug/kg	Q	10/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	1400	66	210		ug/kg		10/3/02	SW846 8270C
1-Methylnaphthalene	860	80	250		ug/kg		10/3/02	SW846 8270C
2-Methylnaphthalene	1100	69	220		ug/kg		10/3/02	SW846 8270C
Naphthalene	840	98	310		ug/kg		10/3/02	SW846 8270C
Phenanthrene	1200	63	200		ug/kg		10/3/02	SW846 8270C
Pyrene	2900	69	220		ug/kg		10/3/02	SW846 8270C
Nitrobenzene-d5	69				%Recov		10/3/02	SW846 8270C
2-Fluorobiphenyl	61				%Recov		10/3/02	SW846 8270C
Terphenyl-d14	63				%Recov		10/3/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-15-6-8

Lab Sample Number : 825994-009

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	76.5				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	76000	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 2500	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 2500	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-15-6-8

Lab Sample Number : 825994-009

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
1,1-Dichloroethane	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
1,3-Dichloropropane	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
2,2-Dichloropropane	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
1,1-Dichloropropene	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
cis-1,3-Dichloropropene	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
trans-1,3-Dichloropropene	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
Diisopropyl ether	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
Ethylbenzene	100000	25	60	ug/kg	9/27/02	SW846 8260B	
Fluorotrchloromethane	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
Hexachlorobutadiene	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
Isopropylbenzene	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
p-Isopropyltoluene	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
Methylene chloride	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
Methyl-tert-butyl-ether	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
Naphthalene	140000	25	60	ug/kg	9/27/02	SW846 8260B	
n-Propylbenzene	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
Styrene	240000	25	60	ug/kg	9/27/02	SW846 8260B	
1,1,2,2-Tetrachloroethane	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
1,1,1,2-Tetrachloroethane	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
Tetrachloroethene	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
Toluene	790000	25	60	ug/kg	9/27/02	SW846 8260B	
1,2,3-Trichlorobenzene	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
1,2,4-Trichlorobenzene	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
1,1,1-Trichloroethane	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
1,1,2-Trichloroethane	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
1,2,4-Trimethylbenzene	130000	25	60	ug/kg	9/27/02	SW846 8260B	
Trichloroethene	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
1,2,3-Trichloropropane	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
1,3,5-Trimethylbenzene	83000	25	60	ug/kg	9/27/02	SW846 8260B	
Vinyl chloride	< 2500	25	60	ug/kg	9/27/02	SW846 8260B	
Xylenes, -m, -p	1100000	25	60	ug/kg	9/27/02	SW846 8260B	
Xylene, -o	310000	25	60	ug/kg	9/27/02	SW846 8260B	
4-Bromofluorobenzene	< 0.5			%Recov	F	9/27/02	SW846 8260B
Dibromofluoromethane	< 0.5			%Recov	F	9/27/02	SW846 8260B
Toluene-d8	< 0.5			%Recov	F	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-15-6-8

Lab Sample Number : 825994-009

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 220	220	700		ug/kg		10/5/02	SW846 8270C
Acenaphthylene	< 160	160	510		ug/kg		10/5/02	SW846 8270C
Anthracene	180	160	510		ug/kg	Q	10/5/02	SW846 8270C
Benzo(a)anthracene	330	180	570		ug/kg	Q	10/5/02	SW846 8270C
Benzo(a)pyrene	270	160	510		ug/kg	Q	10/5/02	SW846 8270C
Benzo(b)fluoranthene	210	140	450		ug/kg	Q	10/5/02	SW846 8270C
Benzo(g,h,i)perylene	300	150	480		ug/kg	Q	10/5/02	SW846 8270C
Benzo(k)fluoranthene	260	170	540		ug/kg	Q	10/5/02	SW846 8270C
Chrysene	340	180	570		ug/kg	Q	10/5/02	SW846 8270C
Dibenzo(a,h)anthracene	< 140	140	450		ug/kg		10/5/02	SW846 8270C
Fluoranthene	780	140	450		ug/kg		10/5/02	SW846 8270C
Fluorene	190	160	510		ug/kg	Q	10/5/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 150	150	480		ug/kg		10/5/02	SW846 8270C
1-Methylnaphthalene	270	180	570		ug/kg	Q	10/5/02	SW846 8270C
2-Methylnaphthalene	420	160	510		ug/kg	Q	10/5/02	SW846 8270C
Naphthalene	4900	220	700		ug/kg		10/5/02	SW846 8270C
Phenanthrene	1200	140	450		ug/kg		10/5/02	SW846 8270C
Pyrene	1400	160	510		ug/kg		10/5/02	SW846 8270C
Nitrobenzene-d5	48				%Recov		10/5/02	SW846 8270C
2-Fluorobiphenyl	45				%Recov		10/5/02	SW846 8270C
Terphenyl-d14	60				%Recov		10/5/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-16-6-8

Lab Sample Number : 825994-010

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	72.7				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	10000	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-16-6-8

Lab Sample Number : 825994-010

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Ethylbenzene	3500	25	60	ug/kg	9/27/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Isopropylbenzene	74	25	60	ug/kg	9/27/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Naphthalene	1500	25	60	ug/kg	9/27/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Styrene	290	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Toluene	5500	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	1400	25	60	ug/kg	9/27/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	700	25	60	ug/kg	9/27/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Xylenes, -m, -p	7600	25	60	ug/kg	9/27/02	SW846 8260B
Xylene, -o	2100	25	60	ug/kg	9/27/02	SW846 8260B
4-Bromofluorobenzene	80			%Recov	9/27/02	SW846 8260B
Dibromofluoromethane	72			%Recov	9/27/02	SW846 8260B
Toluene-d8	79			%Recov	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-16-6-8

Lab Sample Number : 825994-010

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	23	23	73		ug/kg	Q	10/2/02	SW846 8270C
Acenaphthylene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Anthracene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Benzo(a)anthracene	< 19	19	61		ug/kg		10/2/02	SW846 8270C
Benzo(a)pyrene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Benzo(b)fluoranthene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Benzo(g,h,i)perylene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Benzo(k)fluoranthene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Chrysene	< 19	19	61		ug/kg		10/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Fluoranthene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Fluorene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
1-Methylnaphthalene	25	19	61		ug/kg	Q	10/2/02	SW846 8270C
2-Methylnaphthalene	32	17	54		ug/kg	Q	10/2/02	SW846 8270C
Naphthalene	410	23	73		ug/kg		10/2/02	SW846 8270C
Phenanthrene	41	15	48		ug/kg	Q	10/2/02	SW846 8270C
Pyrene	20	17	54		ug/kg	Q	10/2/02	SW846 8270C
Nitrobenzene-d5	61				%Recov		10/2/02	SW846 8270C
2-Fluorobiphenyl	67				%Recov		10/2/02	SW846 8270C
Terphenyl-d14	89				%Recov		10/2/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-17-6-8

Lab Sample Number : 825994-011

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	76.9				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	16000	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 50	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 50	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 50	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-17-6-8

Lab Sample Number : 825994-011

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloroethane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,3-Dichloropropane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
2,2-Dichloropropane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloropropene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Diisopropyl ether	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Ethylbenzene	350	25	60	ug/kg	9/27/02	SW846 8260B
Fluorotrichloromethane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Hexachlorobutadiene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Isopropylbenzene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
p-Isopropyltoluene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Methylene chloride	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Naphthalene	6100	25	60	ug/kg	9/27/02	SW846 8260B
n-Propylbenzene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Styrene	1400	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Tetrachloroethene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Toluene	16000	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	1900	25	60	ug/kg	9/27/02	SW846 8260B
Trichloroethene	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 50	25	60	ug/kg	9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	1200	25	60	ug/kg	9/27/02	SW846 8260B
Vinyl chloride	< 50	25	60	ug/kg	9/27/02	SW846 8260B
Xylenes, -m, -p	11000	25	60	ug/kg	9/27/02	SW846 8260B
Xylene, -o	3400	25	60	ug/kg	9/27/02	SW846 8260B
4-Bromofluorobenzene	82			%Recov	9/27/02	SW846 8260B
Dibromofluoromethane	76			%Recov	9/27/02	SW846 8260B
Toluene-d8	82			%Recov	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-17-6-8

Lab Sample Number : 825994-011

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 210	210	670		ug/kg		10/3/02	SW846 8270C
Acenaphthylene	310	160	510		ug/kg	Q	10/3/02	SW846 8270C
Anthracene	< 160	160	510		ug/kg		10/3/02	SW846 8270C
Benzo(a)anthracene	410	180	570		ug/kg	Q	10/3/02	SW846 8270C
Benzo(a)pyrene	180	160	510		ug/kg	Q	10/3/02	SW846 8270C
Benzo(b)fluoranthene	280	140	450		ug/kg	Q	10/3/02	SW846 8270C
Benzo(g,h,i)perylene	510	150	480		ug/kg		10/3/02	SW846 8270C
Benzo(k)fluoranthene	280	170	540		ug/kg	Q	10/3/02	SW846 8270C
Chrysene	480	180	570		ug/kg	Q	10/3/02	SW846 8270C
Dibenzo(a,h)anthracene	< 140	140	450		ug/kg		10/3/02	SW846 8270C
Fluoranthene	910	140	450		ug/kg		10/3/02	SW846 8270C
Fluorene	230	160	510		ug/kg	Q	10/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	310	150	480		ug/kg	Q	10/3/02	SW846 8270C
1-Methylnaphthalene	730	180	570		ug/kg		10/3/02	SW846 8270C
2-Methylnaphthalene	1300	160	510		ug/kg		10/3/02	SW846 8270C
Naphthalene	7900	220	700		ug/kg		10/3/02	SW846 8270C
Phenanthrene	1800	140	450		ug/kg		10/3/02	SW846 8270C
Pyrene	1200	160	510		ug/kg		10/3/02	SW846 8270C
Nitrobenzene-d5	66				%Recov		10/3/02	SW846 8270C
2-Fluorobiphenyl	62				%Recov		10/3/02	SW846 8270C
Terphenyl-d14	72				%Recov		10/3/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-18-10-12

Lab Sample Number : 825994-012

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	74.8				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-18-10-12

Lab Sample Number : 825994-012

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Naphthalene	98	25	60	ug/kg	9/27/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Styrene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Toluene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Xylenes, -m, -p	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/kg	9/27/02	SW846 8260B
4-Bromofluorobenzene	85			%Recov	9/27/02	SW846 8260B
Dibromofluoromethane	74			%Recov	9/27/02	SW846 8260B
Toluene-d8	85			%Recov	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-18-10-12

Lab Sample Number : 825994-012

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 22	22	70		ug/kg		10/2/02	SW846 8270C
Acenaphthylene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Anthracene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Benzo(a)anthracene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Benzo(a)pyrene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Benzo(b)fluoranthene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Benzo(g,h,i)perylene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Benzo(k)fluoranthene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Chrysene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Fluoranthene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Fluorene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
1-Methylnaphthalene	< 19	19	61		ug/kg		10/2/02	SW846 8270C
2-Methylnaphthalene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Naphthalene	< 23	23	73		ug/kg		10/2/02	SW846 8270C
Phenanthrene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Pyrene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Nitrobenzene-d5	75				%Recov		10/2/02	SW846 8270C
2-Fluorobiphenyl	76				%Recov		10/2/02	SW846 8270C
Terphenyl-d14	83				%Recov		10/2/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-20-10-12

Lab Sample Number : 825994-013

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	83.5				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	54	25	60		ug/kg	Q	9/27/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-20-10-12

Lab Sample Number : 825994-013

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Naphthalene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Styrene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Toluene	35	25	60	ug/kg	Q	9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg		9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Xylenes, -m, -p	< 25	25	60	ug/kg		9/27/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/kg		9/27/02	SW846 8260B
4-Bromofluorobenzene	91			%Recov		9/27/02	SW846 8260B
Dibromofluoromethane	78			%Recov		9/27/02	SW846 8260B
Toluene-d8	90			%Recov		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-20-10-12

Lab Sample Number : 825994-013

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results**PAH/PNA - SEMIVOLATILES**

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 20	20	64		ug/kg		10/2/02	SW846 8270C
Acenaphthylene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Anthracene	23	14	45		ug/kg	Q	10/2/02	SW846 8270C
Benzo(a)anthracene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Benzo(a)pyrene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Benzo(b)fluoranthene	< 13	13	41		ug/kg		10/2/02	SW846 8270C
Benzo(g,h,i)perylene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Benzo(k)fluoranthene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Chrysene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 13	13	41		ug/kg		10/2/02	SW846 8270C
Fluoranthene	< 13	13	41		ug/kg		10/2/02	SW846 8270C
Fluorene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
1-Methylnaphthalene	28	17	54		ug/kg	Q	10/2/02	SW846 8270C
2-Methylnaphthalene	44	14	45		ug/kg	Q	10/2/02	SW846 8270C
Naphthalene	< 20	20	64		ug/kg		10/2/02	SW846 8270C
Phenanthrene	22	13	41		ug/kg	Q	10/2/02	SW846 8270C
Pyrene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Nitrobenzene-d5	66				%Recov		10/2/02	SW846 8270C
2-Fluorobiphenyl	68				%Recov		10/2/02	SW846 8270C
Terphenyl-d14	66				%Recov		10/2/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-21-10-12

Lab Sample Number : 825994-014

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	77.6				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-21-10-12

Lab Sample Number : 825994-014

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Naphthalene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Styrene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Toluene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Xylenes, -m, -p	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/kg	9/27/02	SW846 8260B
4-Bromofluorobenzene	84			%Recov	9/27/02	SW846 8260B
Dibromofluoromethane	70			%Recov	9/27/02	SW846 8260B
Toluene-d8	82			%Recov	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-21-10-12

Lab Sample Number : 825994-014

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 21	21	67		ug/kg		10/2/02	SW846 8270C
Acenaphthylene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Anthracene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Benzo(a)anthracene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Benzo(a)pyrene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Benzo(b)fluoranthene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Benzo(g,h,i)perylene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Benzo(k)fluoranthene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Chrysene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Fluoranthene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Fluorene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
1-Methylnaphthalene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
2-Methylnaphthalene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Naphthalene	< 22	22	70		ug/kg		10/2/02	SW846 8270C
Phenanthrene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Pyrene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Nitrobenzene-d5	72				%Recov		10/2/02	SW846 8270C
2-Fluorobiphenyl	74				%Recov		10/2/02	SW846 8270C
Terphenyl-d14	80				%Recov		10/2/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-21-10-12-DUP

Lab Sample Number : 825994-015

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	73.5				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-21-10-12-DUP

Lab Sample Number : 825994-015

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Naphthalene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Styrene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Toluene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Xylenes, -m, -p	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/kg	9/27/02	SW846 8260B
4-Bromofluorobenzene	83			%Recov	9/27/02	SW846 8260B
Dibromofluoromethane	71			%Recov	9/27/02	SW846 8260B
Toluene-d8	82			%Recov	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-21-10-12-DUP

Lab Sample Number : 825994-015

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 22	22	70		ug/kg		10/2/02	SW846 8270C
Acenaphthylene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Anthracene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Benzo(a)anthracene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Benzo(a)pyrene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Benzo(b)fluoranthene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Benzo(g,h,i)perylene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Benzo(k)fluoranthene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Chrysene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Fluoranthene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Fluorene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
1-Methylnaphthalene	< 19	19	61		ug/kg		10/2/02	SW846 8270C
2-Methylnaphthalene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Naphthalene	< 23	23	73		ug/kg		10/2/02	SW846 8270C
Phenanthrene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Pyrene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Nitrobenzene-d5	67				%Recov		10/2/02	SW846 8270C
2-Fluorobiphenyl	68				%Recov		10/2/02	SW846 8270C
Terphenyl-d14	75				%Recov		10/2/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-22-8-10

Lab Sample Number : 825994-016

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	72.7				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-22-8-10

Lab Sample Number : 825994-016

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Naphthalene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Styrene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Toluene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Xylenes, -m, -p	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/kg	9/27/02	SW846 8260B
4-Bromofluorobenzene	84			%Recov	9/27/02	SW846 8260B
Dibromofluoromethane	73			%Recov	9/27/02	SW846 8260B
Toluene-d8	83			%Recov	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-22-8-10

Lab Sample Number : 825994-016

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 23	23	73		ug/kg		10/2/02	SW846 8270C
Acenaphthylene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Anthracene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Benzo(a)anthracene	< 19	19	61		ug/kg		10/2/02	SW846 8270C
Benzo(a)pyrene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Benzo(b)fluoranthene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Benzo(g,h,i)perylene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Benzo(k)fluoranthene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Chrysene	< 19	19	61		ug/kg		10/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Fluoranthene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Fluorene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
1-Methylnaphthalene	< 19	19	61		ug/kg		10/2/02	SW846 8270C
2-Methylnaphthalene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Naphthalene	< 23	23	73		ug/kg		10/2/02	SW846 8270C
Phenanthrene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Pyrene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Nitrobenzene-d5	74				%Recov		10/2/02	SW846 8270C
2-Fluorobiphenyl	75				%Recov		10/2/02	SW846 8270C
Terphenyl-d14	96				%Recov		10/2/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-19-10-12

Lab Sample Number : 825994-017

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	77.1				%		9/24/02	SM2540G	SM2540G	KEG

Organic Results

EPA 8260 VOLATILE LIST - SOIL/METHANOL

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: TLT

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	36	25	60		ug/kg	Q	9/27/02	SW846 8260B
Bromobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromochloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromoform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Bromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
s-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
t-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
n-Butylbenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroform	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Chloromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dibromomethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		ug/kg		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		ug/kg		9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-19-10-12

Lab Sample Number : 825994-017

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

1,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
2,2-Dichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Diisopropyl ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Ethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methylene chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Naphthalene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Styrene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Tetrachloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Toluene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Trichloroethene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60	ug/kg	9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Vinyl chloride	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Xylenes, -m, -p	< 25	25	60	ug/kg	9/27/02	SW846 8260B
Xylene, -o	< 25	25	60	ug/kg	9/27/02	SW846 8260B
4-Bromofluorobenzene	84			%Recov	9/27/02	SW846 8260B
Dibromofluoromethane	71			%Recov	9/27/02	SW846 8260B
Toluene-d8	82			%Recov	9/27/02	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL&P MGP

Project Number : 09413-098

Field ID : B-19-10-12

Lab Sample Number : 825994-017

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 10/9/02

Collection Date : 9/19/02

Matrix Type : SOIL

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3545

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 21	21	67		ug/kg		10/2/02	SW846 8270C
Acenaphthylene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Anthracene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Benzo(a)anthracene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Benzo(a)pyrene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Benzo(b)fluoranthene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Benzo(g,h,i)perylene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
Benzo(k)fluoranthene	< 17	17	54		ug/kg		10/2/02	SW846 8270C
Chrysene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Fluoranthene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Fluorene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 15	15	48		ug/kg		10/2/02	SW846 8270C
1-Methylnaphthalene	< 18	18	57		ug/kg		10/2/02	SW846 8270C
2-Methylnaphthalene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Naphthalene	< 22	22	70		ug/kg		10/2/02	SW846 8270C
Phenanthrene	< 14	14	45		ug/kg		10/2/02	SW846 8270C
Pyrene	< 16	16	51		ug/kg		10/2/02	SW846 8270C
Nitrobenzene-d5	70				%Recov		10/2/02	SW846 8270C
2-Fluorobiphenyl	68				%Recov		10/2/02	SW846 8270C
Terphenyl-d14	62				%Recov		10/2/02	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

(Please Print Legibly)

Company Name: **ENSR**
 Branch or Location: **St. Louis Park**
 Project Contact: **Bill Gregg**
 Telephone: **952-924-0117**
 Project Number: **09413-098**
 Project Name: **SWL+P MGP**
 Project State: **WI**
 Sampled By (Print): **Chris Boehm**



1241 Bellevue St., Suite 9
 Green Bay, WI 54302
 920-469-2486
 FAX 920-469-8827

525 Science Drive
 Madison, WI 53711
 608-232-3300
 FAX: 608-233-0502

CHAIN OF CUSTODY

85036

Page 1 of 1

P.O. # _____ Quote # _____

Mail Report To: **Bill Gregg**

Company: **ENSR**
 Address: **4500 Park Glen Rd, 210 St. Louis Park, MN 55416**

Invoice To: **Bill Gregg**

Company: **same**

Address: _____

Mail Invoice To: _____

Data Package Options - (please circle if requested)

Sample Results Only (no QC)
 EPA Level II (Subject to Surcharge)
 EPA Level III (Subject to Surcharge)
 EPA Level IV (Subject to Surcharge)

Regulatory Program
 UST
 RCRA
 SDWA
 NPDES
 CERCLA

Matrix Codes
 W=Water
 S=Soil
 A=Air
 C=Charcoal
 B=Biota
 Sl=Sludge

*Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH
 H = Sodium Bisulfate Solution I = Sodium Thiosulfate J = Other
 FILTERED? (YES/NO)
 PRESERVATION (CODE)*

ANALYSES REQUESTED
 PAH 8270
 VOC 8260
 BTEX
 Dry Weight

TOTAL # OF BOTTLES SENT

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX	ANALYSES REQUESTED							TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	
		DATE	TIME		PAH	VOC	BTEX	Dry Weight							
001	Trip Blank	-	-	W											
002	MW-7	9/18/02	1655		X	X									240ml 340ml 16 Ambient
003	MW-6		1650		X	X									
004	MW-6-deep		1655		X	X									
005	MW-5		1720		X	X									
006	MW-2		1830		X	X									
007	B-10-6-8		1900	S			X	X							120g 41g
008	B-9-10-12		1750	S			X	X							
009	B-8-6-8	9/18	1745	S			X	X							19g SS

Rush Turnaround Time Requested (TAT) - Prelim
 (Rush TAT subject to approval/surcharge)
 Date Needed: **Standard**
 Transmit Prelim Rush Results by (circle):
 Phone Fax E-Mail
 Phone #: _____
 Fax #: _____
 E-Mail Address: _____

Relinquished By: **Chris Boehm** Date/Time: **9/19/02 1900**
 Relinquished By: **Don Parker** Date/Time: **9-19-02 14:00**
 Relinquished By: **Dunham** Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: **Don Parker** Date/Time: **9-19-02 09:00**
 Received By: **Dunham** Date/Time: **9-19-02 14:00**
 Received By: **Glenn Hartman** Date/Time: **9/20/02 0800**
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

En Chem Project No: **825923**
 Sample Receipt Time: **ROE ROE**
 Sample Receipt Method (Metals): **NA**
 Order Custody Seal: _____
 Project Approval: _____

Samples on HOLD are subject to special pricing, release, and ability



Corporate Office & Laboratory
1241 Bellevue Street, Suite 9 • Green Bay, WI 54302
920-469-2436 • FAX: 920-469-8827 • 800-7-ENCHEM
www.enchem.com

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Client: ENSR CORPORATION

WI DNR LAB ID : 405132750


Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
825923-001	TRIP BLANK	9/18/02			
825923-002	MW-7	9/18/02			
825923-003	MW-6	9/18/02			
825923-004	MW-6-DUP	9/18/02			
825923-005	MW-5	9/18/02			
825923-006	MW-2	9/18/02			
825923-007	B-10-6-8	9/18/02			
825923-008	B-9-10-12	9/18/02			
825923-009	B-8-6-8	9/18/02			

Please visit our Internet homepage at: www.enchem.com

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.


Approval Signature

09/30/02
Date

En Chem, Inc. Cooler Receipt Log

Batch No. 825923

Project Name or ID 09413-098

No. of Coolers: 1 Temps: ROI 39°C

A. Receipt Phase: Date cooler was opened: 9-20-02 By: GD

- 1: Were samples received on ice? (Must be ≤ 6 C)..... YES NO²
- 2: Was there a Temperature Blank?..... YES NO
- 3: Were custody seals present and intact? (Record on COC)..... YES NO
- 4: Are COC documents present?..... YES NO²
- 5: Does this Project require quick turn around analysis?..... YES NO
- 6: Is there any sub-work?..... YES NO
- 7: Are there any short hold time tests?..... YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES¹ NO Contacted by/Who _____
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES¹ NO Contacted by/Who _____

B. Check-in Phase: Date samples were Checked-in: 9-20-02 By: GD

- 1: Were all sample containers listed on the COC received and intact?..... YES NO² NA
- 2: Sign the COC as received by En Chem. Completed..... YES NO
- 3: Do sample labels match the COC? YES NO²
- 4: Check sample pH of preserved samples. (Not VOCs) Completed..... YES NO NA
- 5: Do samples have correct chemical preservation?..... YES NO² NA
- 6: Are dissolved parameters field filtered?..... YES NO² NA
- 7: Are sample volumes adequate for tests requested? YES NO²
- 8: Are VOC samples free of bubbles >6mm YES NO² NA
- 9: Enter samples into logbook. Completed..... YES NO
- 10: Place laboratory sample number on all containers and COC. Completed..... YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed..... YES NO NA
- 12: Start Nonconformance form. YES NO NA
- 13: Initiate Subcontracting procedure. Completed..... YES NO NA
- 14: Check laboratory sample number on all containers and COC. YES NO NA

Short Hold-time tests:

48 Hours or less Coliform (6 hrs) Hexavalent Chromium (24 Hrs) BOD Nitrite or Nitrate Low Level Mercury Ortho Phosphorus Turbidity Surfactants Sulfite En Core Preservation Color	7 days Flashpoint TSS Total Solids TDS Sulfide Free Liquids Total Volatile Solids Aqueous Extractable Organics- ALL Unpreserved VOC's Ash	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
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Rev. 9/5/2001, Attachment to 1-REC-5.
 Subject to QA Audit.

Reviewed by/date uw 9/23/02

Organic Data Qualifiers

B	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	Elevated detection limit.
D	Analyte value from diluted analysis, or surrogate result not applicable due to sample dilution.
E	Analyte concentration exceeds calibration range.
F	Surrogate results outside control criteria.
H	Extraction or analysis performed past holding time.
J	Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
K	Detection limit may be elevated due to the presence of an unrequested analyte.
N	Spiked sample recovery not within control limits.
P	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	The analyte was not detected above the reporting limit.
W	Sample received with headspace.
X	See Sample Narrative.
&	Laboratory Control Spike recovery not within control limits.
*	Duplicate analyses not within control limits.
SUB1	Assay was subcontracted to an approved lab.
SUB2	Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.

- Analytical Report -

Project Name : SWL & P MGP	Client : ENSR CORPORATION
Project Number : 09413-098	Report Date : 9/30/02
Field ID : TRIP BLANK	Collection Date : 9/18/02
Lab Sample Number : 825923-001	Matrix Type : WATER
WI DNR LAB ID : 405132750	

Organic Results

BTEX - WATER

Prep Method: SW846 5030B **Prep Date:** 9/23/02 **Analyst:** PMS

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	98				%Recov		9/24/02	SW846 M8021B
Benzene	< 0.45	0.45	1.4		ug/l		9/24/02	SW846 M8021B
Ethylbenzene	< 0.82	0.82	2.6		ug/l		9/24/02	SW846 M8021B
Toluene	< 0.68	0.68	2.2		ug/l		9/24/02	SW846 M8021B
Xylenes, -m, -p	< 1.7	1.7	5.4		ug/l		9/24/02	SW846 M8021B
Xylene, -o	< 0.77	0.77	2.5		ug/l		9/24/02	SW846 M8021B

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-7

Lab Sample Number : 825923-002

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

Organic Results**EPA 8260 VOLATILE LIST- WATER**

Prep Method: SW846 5030B

Prep Date: 9/21/02

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	110000	250	800		ug/L		9/24/02	SW846 8260B
Bromobenzene	< 740	740	2400		ug/L		9/24/02	SW846 8260B
Bromochloromethane	< 670	670	2100		ug/L		9/24/02	SW846 8260B
Bromodichloromethane	< 230	230	730		ug/L		9/24/02	SW846 8260B
Bromoform	< 450	450	1400		ug/L		9/24/02	SW846 8260B
Bromomethane	< 870	870	2800		ug/L		9/24/02	SW846 8260B
s-Butylbenzene	< 620	620	2000		ug/L		9/24/02	SW846 8260B
t-Butylbenzene	< 960	960	3100		ug/L		9/24/02	SW846 8260B
n-Butylbenzene	< 650	650	2100		ug/L		9/24/02	SW846 8260B
Carbon tetrachloride	< 470	470	1500		ug/L		9/24/02	SW846 8260B
Chloroform	< 450	450	1400		ug/L		9/24/02	SW846 8260B
Chlorobenzene	< 580	580	1800		ug/L		9/24/02	SW846 8260B
Chlorodibromomethane	< 840	840	2700		ug/L		9/24/02	SW846 8260B
Chloroethane	< 840	840	2700		ug/L		9/24/02	SW846 8260B
Chloromethane	< 270	270	860		ug/L		9/24/02	SW846 8260B
2-Chlorotoluene	< 660	660	2100		ug/L		9/24/02	SW846 8260B
4-Chlorotoluene	< 890	890	2800		ug/L		9/24/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 880	880	2800		ug/L		9/24/02	SW846 8260B
1,2-Dibromoethane	< 660	660	2100		ug/L		9/24/02	SW846 8260B
Dibromomethane	< 740	740	2400		ug/L		9/24/02	SW846 8260B
1,3-Dichlorobenzene	< 580	580	1800		ug/L		9/24/02	SW846 8260B
1,4-Dichlorobenzene	< 630	630	2000		ug/L		9/24/02	SW846 8260B
1,2-Dichloroethane	< 550	550	1800		ug/L		9/24/02	SW846 8260B
1,2-Dichlorobenzene	< 710	710	2300		ug/L		9/24/02	SW846 8260B
1,1-Dichloroethene	< 560	560	1800		ug/L		9/24/02	SW846 8260B
cis-1,2-Dichloroethene	< 810	810	2600		ug/L		9/24/02	SW846 8260B
Dichlorodifluoromethane	< 570	570	1800		ug/L		9/24/02	SW846 8260B
trans-1,2-Dichloroethene	< 800	800	2500		ug/L		9/24/02	SW846 8260B
1,2-Dichloropropane	< 390	390	1200		ug/L		9/24/02	SW846 8260B
1,1-Dichloroethane	< 870	870	2800		ug/L		9/24/02	SW846 8260B
1,3-Dichloropropane	< 620	620	2000		ug/L		9/24/02	SW846 8260B
2,2-Dichloropropane	< 990	990	3200		ug/L		9/24/02	SW846 8260B

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-7

Lab Sample Number : 825923-002

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

1,1-Dichloropropene	< 790	790	2500	ug/L		9/24/02	SW846 8260B
cis-1,3-Dichloropropene	< 570	570	1800	ug/L		9/24/02	SW846 8260B
trans-1,3-Dichloropropene	< 640	640	2000	ug/L		9/24/02	SW846 8260B
Diisopropyl ether	< 600	600	1900	ug/L		9/24/02	SW846 8260B
Ethylbenzene	6100	530	1700	ug/L		9/24/02	SW846 8260B
Fluorotrichloromethane	< 850	850	2700	ug/L		9/24/02	SW846 8260B
Hexachlorobutadiene	< 950	950	3000	ug/L		9/24/02	SW846 8260B
Isopropylbenzene	< 660	660	2100	ug/L		9/24/02	SW846 8260B
p-Isopropyltoluene	< 580	580	1800	ug/L		9/24/02	SW846 8260B
Methylene chloride	< 470	470	1500	ug/L		9/24/02	SW846 8260B
Methyl-tert-butyl-ether	< 870	870	2800	ug/L		9/24/02	SW846 8260B
Naphthalene	< 630	630	2000	ug/L		9/24/02	SW846 8260B
n-Propylbenzene	< 950	950	3000	ug/L		9/24/02	SW846 8260B
Styrene	< 620	620	2000	ug/L		9/24/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 770	770	2500	ug/L		9/24/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 950	950	3000	ug/L		9/24/02	SW846 8260B
Tetrachloroethene	< 630	630	2000	ug/L		9/24/02	SW846 8260B
Toluene	64000	840	2700	ug/L		9/24/02	SW846 8260B
1,2,3-Trichlorobenzene	< 770	770	2500	ug/L		9/24/02	SW846 8260B
1,2,4-Trichlorobenzene	< 570	570	1800	ug/L		9/24/02	SW846 8260B
1,1,1-Trichloroethane	< 650	650	2100	ug/L		9/24/02	SW846 8260B
1,1,2-Trichloroethane	< 500	500	1600	ug/L		9/24/02	SW846 8260B
1,2,4-Trimethylbenzene	770	690	2200	ug/L	Q	9/24/02	SW846 8260B
Trichloroethene	< 390	390	1200	ug/L		9/24/02	SW846 8260B
1,2,3-Trichloropropane	< 920	920	2900	ug/L		9/24/02	SW846 8260B
1,3,5-Trimethylbenzene	< 640	640	2000	ug/L		9/24/02	SW846 8260B
Vinyl chloride	< 110	110	350	ug/L		9/24/02	SW846 8260B
Xylenes, -m, -p	18000	1100	3500	ug/L		9/24/02	SW846 8260B
Xylene, -o	4800	730	2300	ug/L		9/24/02	SW846 8260B
4-Bromofluorobenzene	113			%Recov		9/24/02	SW846 8260B
Dibromofluoromethane	130			%Recov		9/24/02	SW846 8260B
Toluene-d8	120			%Recov		9/24/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 9/23/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	< NA				%Recov	D	9/26/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-7

Lab Sample Number : 825923-002

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

Nitrobenzene-d5	< NA			%Recov	D	9/26/02	SW846 8270C
2-Fluorobiphenyl	< NA			%Recov	D	9/26/02	SW846 8270C
Acenaphthene	5.4	3.6	11	ug/L	Q	9/26/02	SW846 8270C
Acenaphthylene	< 4.6	4.6	15	ug/L		9/26/02	SW846 8270C
Anthracene	< 4.0	4.0	13	ug/L		9/26/02	SW846 8270C
Benzo(a)anthracene	< 3.8	3.8	12	ug/L		9/26/02	SW846 8270C
Benzo(a)pyrene	< 2.4	2.4	7.6	ug/L		9/26/02	SW846 8270C
Benzo(b)fluoranthene	< 2.8	2.8	8.9	ug/L		9/26/02	SW846 8270C
Benzo(g,h,i)perylene	< 3.0	3.0	9.6	ug/L		9/26/02	SW846 8270C
Benzo(k)fluoranthene	< 2.6	2.6	8.3	ug/L		9/26/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 2.8	2.8	8.9	ug/L		9/26/02	SW846 8270C
Chrysene	< 3.6	3.6	11	ug/L		9/26/02	SW846 8270C
Dibenzo(a,h)anthracene	< 3.4	3.4	11	ug/L		9/26/02	SW846 8270C
Fluoranthene	< 5.6	5.6	18	ug/L		9/26/02	SW846 8270C
Fluorene	< 4.2	4.2	13	ug/L		9/26/02	SW846 8270C
2-Methylnaphthalene	13	5.6	18	ug/L	Q	9/26/02	SW846 8270C
1-Methylnaphthalene	10	5.4	17	ug/L	Q	9/26/02	SW846 8270C
Naphthalene	490	54	170	ug/L	D	9/26/02	SW846 8270C
Phenanthrene	6.7	3.8	12	ug/L	Q	9/26/02	SW846 8270C
Pyrene	< 4.0	4.0	13	ug/L		9/26/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-6

Lab Sample Number : 825923-003

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 9/21/02

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	3.1	0.25	0.80		ug/L		9/23/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		9/23/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		9/23/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		9/23/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		9/23/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		9/23/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		9/23/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		9/23/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		9/23/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		9/23/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		9/23/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		9/23/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		9/23/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		9/23/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		9/23/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		9/23/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		9/23/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		9/23/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		9/23/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		9/23/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		9/23/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		9/23/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		9/23/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		9/23/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		9/23/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		9/23/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		9/23/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		9/23/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		9/23/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		9/23/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		9/23/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		9/23/02	SW846 8260B

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-6

Lab Sample Number : 825923-003

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

1,1-Dichloropropene	< 0.79	0.79	2.5	ug/L		9/23/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8	ug/L		9/23/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0	ug/L		9/23/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9	ug/L		9/23/02	SW846 8260B
Ethylbenzene	1.1	0.53	1.7	ug/L	Q	9/23/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		9/23/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		9/23/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		9/23/02	SW846 8260B
p-Isopropyltoluene	1.4	0.58	1.8	ug/L	Q	9/23/02	SW846 8260B
Methylene chloride	< 0.47	0.47	1.5	ug/L		9/23/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		9/23/02	SW846 8260B
Naphthalene	17	0.63	2.0	ug/L		9/23/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		9/23/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	9/23/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		9/23/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		9/23/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		9/23/02	SW846 8260B
Toluene	0.84	0.84	2.7	ug/L	Q	9/23/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		9/23/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		9/23/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		9/23/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		9/23/02	SW846 8260B
1,2,4-Trimethylbenzene	0.80	0.69	2.2	ug/L	Q	9/23/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		9/23/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		9/23/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		9/23/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		9/23/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		9/23/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		9/23/02	SW846 8260B
4-Bromofluorobenzene	114			%Recov		9/23/02	SW846 8260B
Dibromofluoromethane	127			%Recov		9/23/02	SW846 8260B
Toluene-d8	120			%Recov		9/23/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 9/23/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	103				%Recov		9/26/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-6

Lab Sample Number : 825923-003

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

Nitrobenzene-d5	157			%Recov		9/26/02	SW846 8270C
2-Fluorobiphenyl	89			%Recov		9/26/02	SW846 8270C
Acenaphthene	4.5	0.72	2.3	ug/L		9/26/02	SW846 8270C
Acenaphthylene	< 0.92	0.92	2.9	ug/L		9/26/02	SW846 8270C
Anthracene	< 0.80	0.80	2.5	ug/L		9/26/02	SW846 8270C
Benzo(a)anthracene	< 0.76	0.76	2.4	ug/L		9/26/02	SW846 8270C
Benzo(a)pyrene	< 0.48	0.48	1.5	ug/L		9/26/02	SW846 8270C
Benzo(b)fluoranthene	< 0.56	0.56	1.8	ug/L		9/26/02	SW846 8270C
Benzo(g,h,i)perylene	< 0.60	0.60	1.9	ug/L		9/26/02	SW846 8270C
Benzo(k)fluoranthene	< 0.52	0.52	1.7	ug/L		9/26/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.56	0.56	1.8	ug/L		9/26/02	SW846 8270C
Chrysene	< 0.72	0.72	2.3	ug/L		9/26/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.68	0.68	2.2	ug/L		9/26/02	SW846 8270C
Fluoranthene	< 1.1	1.1	3.5	ug/L		9/26/02	SW846 8270C
Fluorene	< 0.84	0.84	2.7	ug/L		9/26/02	SW846 8270C
2-Methylnaphthalene	1.6	1.1	3.5	ug/L	Q	9/26/02	SW846 8270C
1-Methylnaphthalene	2.5	1.1	3.5	ug/L	Q	9/26/02	SW846 8270C
Naphthalene	12	1.1	3.5	ug/L		9/26/02	SW846 8270C
Phenanthrene	3.4	0.76	2.4	ug/L		9/26/02	SW846 8270C
Pyrene	1.1	0.80	2.5	ug/L	Q	9/26/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-6-DUP

Lab Sample Number : 825923-004

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 9/21/02

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	3.1	0.25	0.80		ug/L		9/23/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		9/23/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		9/23/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		9/23/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		9/23/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		9/23/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		9/23/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		9/23/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		9/23/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		9/23/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		9/23/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		9/23/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		9/23/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		9/23/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		9/23/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		9/23/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		9/23/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		9/23/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		9/23/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		9/23/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		9/23/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		9/23/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		9/23/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		9/23/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		9/23/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		9/23/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		9/23/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		9/23/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		9/23/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		9/23/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		9/23/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		9/23/02	SW846 8260B

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-6-DUP

Lab Sample Number : 825923-004

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

1,1-Dichloropropene	< 0.79	0.79	2.5	ug/L		9/23/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8	ug/L		9/23/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0	ug/L		9/23/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9	ug/L		9/23/02	SW846 8260B
Ethylbenzene	1.2	0.53	1.7	ug/L	Q	9/23/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		9/23/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		9/23/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		9/23/02	SW846 8260B
p-Isopropyltoluene	1.6	0.58	1.8	ug/L	Q	9/23/02	SW846 8260B
Methylene chloride	< 0.47	0.47	1.5	ug/L		9/23/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		9/23/02	SW846 8260B
Naphthalene	17	0.63	2.0	ug/L		9/23/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		9/23/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	9/23/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		9/23/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		9/23/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		9/23/02	SW846 8260B
Toluene	0.85	0.84	2.7	ug/L	Q	9/23/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		9/23/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		9/23/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		9/23/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		9/23/02	SW846 8260B
1,2,4-Trimethylbenzene	0.81	0.69	2.2	ug/L	Q	9/23/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		9/23/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		9/23/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		9/23/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		9/23/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		9/23/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		9/23/02	SW846 8260B
4-Bromofluorobenzene	113			%Recov		9/23/02	SW846 8260B
Dibromofluoromethane	129			%Recov		9/23/02	SW846 8260B
Toluene-d8	120			%Recov		9/23/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 9/23/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	110				%Recov		9/26/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-6-DUP

Lab Sample Number : 825923-004

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

Nitrobenzene-d5	119			%Recov		9/26/02	SW846 8270C
2-Fluorobiphenyl	82			%Recov		9/26/02	SW846 8270C
Acenaphthene	3.9	0.72	2.3	ug/L		9/26/02	SW846 8270C
Acenaphthylene	< 0.92	0.92	2.9	ug/L		9/26/02	SW846 8270C
Anthracene	< 0.80	0.80	2.5	ug/L		9/26/02	SW846 8270C
Benzo(a)anthracene	< 0.76	0.76	2.4	ug/L		9/26/02	SW846 8270C
Benzo(a)pyrene	< 0.48	0.48	1.5	ug/L		9/26/02	SW846 8270C
Benzo(b)fluoranthene	< 0.56	0.56	1.8	ug/L		9/26/02	SW846 8270C
Benzo(g,h,i)perylene	< 0.60	0.60	1.9	ug/L		9/26/02	SW846 8270C
Benzo(k)fluoranthene	< 0.52	0.52	1.7	ug/L		9/26/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.56	0.56	1.8	ug/L		9/26/02	SW846 8270C
Chrysene	< 0.72	0.72	2.3	ug/L		9/26/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.68	0.68	2.2	ug/L		9/26/02	SW846 8270C
Fluoranthene	< 1.1	1.1	3.5	ug/L		9/26/02	SW846 8270C
Fluorene	< 0.84	0.84	2.7	ug/L		9/26/02	SW846 8270C
2-Methylnaphthalene	1.3	1.1	3.5	ug/L	Q	9/26/02	SW846 8270C
1-Methylnaphthalene	2.1	1.1	3.5	ug/L	Q	9/26/02	SW846 8270C
Naphthalene	10	1.1	3.5	ug/L		9/26/02	SW846 8270C
Phenanthrene	3.8	0.76	2.4	ug/L		9/26/02	SW846 8270C
Pyrene	1.2	0.80	2.5	ug/L	Q	9/26/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-5

Lab Sample Number : 825923-005

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

Organic Results**EPA 8260 VOLATILE LIST- WATER**

Prep Method: SW846 5030B

Prep Date: 9/21/02

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	0.99	0.25	0.80		ug/L		9/23/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		9/23/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		9/23/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		9/23/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		9/23/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		9/23/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		9/23/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		9/23/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		9/23/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		9/23/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		9/23/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		9/23/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		9/23/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		9/23/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		9/23/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		9/23/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		9/23/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		9/23/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		9/23/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		9/23/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		9/23/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		9/23/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		9/23/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		9/23/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		9/23/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		9/23/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		9/23/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		9/23/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		9/23/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		9/23/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		9/23/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		9/23/02	SW846 8260B

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-5

Lab Sample Number : 825923-005

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

1,1-Dichloropropene	< 0.79	0.79	2.5	ug/L		9/23/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8	ug/L		9/23/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0	ug/L		9/23/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9	ug/L		9/23/02	SW846 8260B
Ethylbenzene	< 0.53	0.53	1.7	ug/L		9/23/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		9/23/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		9/23/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		9/23/02	SW846 8260B
p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L		9/23/02	SW846 8260B
Methylene chloride	< 0.47	0.47	1.5	ug/L		9/23/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		9/23/02	SW846 8260B
Naphthalene	0.89	0.63	2.0	ug/L	Q	9/23/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		9/23/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	9/23/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		9/23/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		9/23/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		9/23/02	SW846 8260B
Toluene	< 0.84	0.84	2.7	ug/L		9/23/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		9/23/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		9/23/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		9/23/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		9/23/02	SW846 8260B
1,2,4-Trimethylbenzene	< 0.69	0.69	2.2	ug/L		9/23/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		9/23/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		9/23/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		9/23/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		9/23/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		9/23/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		9/23/02	SW846 8260B
4-Bromofluorobenzene	113			%Recov		9/23/02	SW846 8260B
Dibromofluoromethane	129			%Recov		9/23/02	SW846 8260B
Toluene-d8	118			%Recov		9/23/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 9/23/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	88				%Recov		9/25/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-5

Lab Sample Number : 825923-005

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

Nitrobenzene-d5	129			%Recov		9/25/02	SW846 8270C
2-Fluorobiphenyl	74			%Recov		9/25/02	SW846 8270C
Acenaphthene	0.43	0.018	0.057	ug/L		9/25/02	SW846 8270C
Acenaphthylene	< 0.023	0.023	0.073	ug/L		9/25/02	SW846 8270C
Anthracene	0.059	0.020	0.064	ug/L	Q	9/25/02	SW846 8270C
Benzo(a)anthracene	< 0.019	0.019	0.061	ug/L		9/25/02	SW846 8270C
Benzo(a)pyrene	< 0.012	0.012	0.038	ug/L		9/25/02	SW846 8270C
Benzo(b)fluoranthene	< 0.014	0.014	0.045	ug/L		9/25/02	SW846 8270C
Benzo(g,h,i)perylene	< 0.015	0.015	0.048	ug/L		9/25/02	SW846 8270C
Benzo(k)fluoranthene	< 0.013	0.013	0.041	ug/L		9/25/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.014	0.014	0.045	ug/L		9/25/02	SW846 8270C
Chrysene	< 0.018	0.018	0.057	ug/L		9/25/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.017	0.017	0.054	ug/L		9/25/02	SW846 8270C
Fluoranthene	0.051	0.028	0.089	ug/L	Q	9/25/02	SW846 8270C
Fluorene	0.24	0.021	0.067	ug/L		9/25/02	SW846 8270C
2-Methylnaphthalene	0.15	0.028	0.089	ug/L		9/25/02	SW846 8270C
1-Methylnaphthalene	0.19	0.027	0.086	ug/L		9/25/02	SW846 8270C
Naphthalene	1.3	0.14	0.45	ug/L	D	9/25/02	SW846 8270C
Phenanthrene	0.22	0.019	0.061	ug/L		9/25/02	SW846 8270C
Pyrene	0.039	0.020	0.064	ug/L	Q	9/25/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-2

Lab Sample Number : 825923-006

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 9/21/02

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.25	0.25	0.80		ug/L		9/23/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		9/23/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		9/23/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		9/23/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		9/23/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		9/23/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		9/23/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		9/23/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		9/23/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		9/23/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		9/23/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		9/23/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		9/23/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		9/23/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		9/23/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		9/23/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		9/23/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		9/23/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		9/23/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		9/23/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		9/23/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		9/23/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		9/23/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		9/23/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		9/23/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		9/23/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		9/23/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		9/23/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		9/23/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		9/23/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		9/23/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		9/23/02	SW846 8260B

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-2

Lab Sample Number : 825923-006

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

1,1-Dichloropropene	< 0.79	0.79	2.5	ug/L		9/23/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8	ug/L		9/23/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0	ug/L		9/23/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9	ug/L		9/23/02	SW846 8260B
Ethylbenzene	< 0.53	0.53	1.7	ug/L		9/23/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L		9/23/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		9/23/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		9/23/02	SW846 8260B
p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L		9/23/02	SW846 8260B
Methylene chloride	< 0.47	0.47	1.5	ug/L		9/23/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		9/23/02	SW846 8260B
Naphthalene	< 0.63	0.63	2.0	ug/L		9/23/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		9/23/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	9/23/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		9/23/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		9/23/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		9/23/02	SW846 8260B
Toluene	< 0.84	0.84	2.7	ug/L		9/23/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		9/23/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		9/23/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		9/23/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		9/23/02	SW846 8260B
1,2,4-Trimethylbenzene	< 0.69	0.69	2.2	ug/L		9/23/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		9/23/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		9/23/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		9/23/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		9/23/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		9/23/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		9/23/02	SW846 8260B
4-Bromofluorobenzene	112			%Recov		9/23/02	SW846 8260B
Dibromofluoromethane	124			%Recov		9/23/02	SW846 8260B
Toluene-d8	121			%Recov		9/23/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 9/24/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	102				%Recov		9/25/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-2

Lab Sample Number : 825923-006

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/18/02

Matrix Type : WATER

Nitrobenzene-d5	62			%Recov	9/25/02	SW846 8270C
2-Fluorobiphenyl	60			%Recov	9/25/02	SW846 8270C
Acenaphthene	< 0.018	0.018	0.057	ug/L	9/25/02	SW846 8270C
Acenaphthylene	< 0.023	0.023	0.073	ug/L	9/25/02	SW846 8270C
Anthracene	< 0.020	0.020	0.064	ug/L	9/25/02	SW846 8270C
Benzo(a)anthracene	< 0.019	0.019	0.061	ug/L	9/25/02	SW846 8270C
Benzo(a)pyrene	< 0.012	0.012	0.038	ug/L	9/25/02	SW846 8270C
Benzo(b)fluoranthene	< 0.014	0.014	0.045	ug/L	9/25/02	SW846 8270C
Benzo(g,h,i)perylene	< 0.015	0.015	0.048	ug/L	9/25/02	SW846 8270C
Benzo(k)fluoranthene	< 0.013	0.013	0.041	ug/L	9/25/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.014	0.014	0.045	ug/L	9/25/02	SW846 8270C
Chrysene	< 0.018	0.018	0.057	ug/L	9/25/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.017	0.017	0.054	ug/L	9/25/02	SW846 8270C
Fluoranthene	< 0.028	0.028	0.089	ug/L	9/25/02	SW846 8270C
Fluorene	< 0.021	0.021	0.067	ug/L	9/25/02	SW846 8270C
2-Methylnaphthalene	< 0.028	0.028	0.089	ug/L	9/25/02	SW846 8270C
1-Methylnaphthalene	< 0.027	0.027	0.086	ug/L	9/25/02	SW846 8270C
Naphthalene	< 0.027	0.027	0.086	ug/L	9/25/02	SW846 8270C
Phenanthrene	< 0.019	0.019	0.061	ug/L	9/25/02	SW846 8270C
Pyrene	< 0.020	0.020	0.064	ug/L	9/25/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP
 Project Number : 09413-098
 Field ID : B-10-6-8
 Lab Sample Number : 825923-007
 WI DNR LAB ID : 405132750

Client : ENSR CORPORATION
 Report Date : 9/30/02
 Collection Date : 9/18/02
 Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	75.2				%		9/20/02	SM2540G	SM2540G	KEG

Organic Results

BTEX - METHANOL PRESERVED SOIL

Prep Method: SW846 5030B Prep Date: 9/23/02 Analyst: PMS

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	95				%Recov		9/24/02	SW846 M8021B
Benzene	120000	330	790		ug/kg		9/24/02	SW846 M8021B
Ethylbenzene	410	330	790		ug/kg	Q	9/24/02	SW846 M8021B
Toluene	59000	330	790		ug/kg		9/24/02	SW846 M8021B
Xylenes, -m, -p	6700	330	790		ug/kg		9/24/02	SW846 M8021B
Xylene, -o	1700	330	790		ug/kg		9/24/02	SW846 M8021B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL & P MGP
Project Number : 09413-098
Field ID : B-9-10-12
Lab Sample Number : 825923-008
WI DNR LAB ID : 405132750

Client : ENSR CORPORATION
Report Date : 9/30/02
Collection Date : 9/18/02
Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	71.6				%		9/20/02	SM2540G	SM2540G	KEG

Organic Results

BTEX - METHANOL PRESERVED SOIL

Prep Method: SW846 5030B Prep Date: 9/23/02 Analyst: PMS

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	98				%Recov		9/24/02	SW846 M8021B
Benzene	100	35	84		ug/kg		9/24/02	SW846 M8021B
Ethylbenzene	< 25	25	60		ug/kg		9/24/02	SW846 M8021B
Toluene	< 25	25	60		ug/kg		9/24/02	SW846 M8021B
Xylenes, -m, -p	< 25	25	60		ug/kg		9/24/02	SW846 M8021B
Xylene, -o	< 25	25	60		ug/kg		9/24/02	SW846 M8021B

All soil results are reported on a dry weight basis unless otherwise noted.

- Analytical Report -

Project Name : SWL & P MGP
Project Number : 09413-098
Field ID : B-8-6-8
Lab Sample Number : 825923-009
WI DNR LAB ID : 405132750

Client : ENSR CORPORATION
Report Date : 9/30/02
Collection Date : 9/18/02
Matrix Type : SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	74.5				%		9/20/02	SM2540G	SM2540G	KEG

Organic Results

BTEX - METHANOL PRESERVED SOIL

Prep Method: SW846 5030B **Prep Date:** 9/23/02 **Analyst:** PMS

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	95				%Recov		9/24/02	SW846 M8021B
Benzene	54000	170	410		ug/kg		9/24/02	SW846 M8021B
Ethylbenzene	380	170	410		ug/kg	Q	9/24/02	SW846 M8021B
Toluene	< 130	130	310		ug/kg		9/24/02	SW846 M8021B
Xylenes, -m, -p	1100	170	410		ug/kg		9/24/02	SW846 M8021B
Xylene, -o	< 130	130	310		ug/kg		9/24/02	SW846 M8021B

All soil results are reported on a dry weight basis unless otherwise noted.

(Please Print Legibly)

Company Name: **ENSR**
 Branch or Location: **St. Louis Park**
 Project Contact: **Bill Gregg**
 Telephone: **952-924-80117**
 Project Number: **09413-098**
 Project Name: **SWL+P MGP**
 Project State: **WI**
 Sampled By (Print): **Chris Boehm**



1241 Bellevue St., Suite 9
 Green Bay, WI 54302
 920-469-2436
 FAX 920-469-8827

525 Science Drive
 Madison, WI 53711
 608-232-3300
 FAX: 608-233-0502

CHAIN OF CUSTODY

*Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH
 H = Sodium Bisulfate Solution I = Sodium Thiosulfate J = Other
 FILTERED? (YES/NO) **N N**
 PRESERVATION (CODE)* **B A**

Page **1** of **1**

P.O. # _____ Quote # _____

Mail Report To: **Bill Gregg**

Company: **ENSR**
 Address: **4500 Park Glen Road, #210 St. Louis Park, MN 55116**

Invoice To: **- same -**

Company: _____

Address: _____

Mail Invoice To: _____

Data Package Options - (please circle if requested)

Sample Results Only (no QC)

EPA Level II (Subject to Surcharge)

EPA Level III (Subject to Surcharge)

EPA Level IV (Subject to Surcharge)

Regulatory Program

UST-RCRA
 SDWA
 NPDES
 CERCLA

Matrix Codes

W=Water
 S=Soil
 A=Air
 C=Charcoal
 B=Biota
 SI=Sludge

ANALYSES REQUESTED
 VOC
 PAH

TOTAL # OF BOTTLES SENT
 4

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX	ANALYSES REQUESTED										CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)		
		DATE	TIME		VOC	PAH												
001	MW-1	9/20/02	9:45	W	X	X											4 - 40mL HCL	
002	MW-3		1020															
003	MW-4		1050															
004	MW-4-dup		1055															

Rush Turnaround Time Requested (TAT) - Prelim

(Rush TAT subject to approval/surcharge)

Date Needed: **standard**

Transmit Prelim Rush Results by (circle):

Phone Fax E-Mail

Phone #: _____

Fax #: _____

E-Mail Address: _____

Samples on HOLD are subject to pricing please verify

Relinquished By:

Chris Boehm

Date/Time:

9/20/02 13:00

Relinquished By:

Chris Boehm

Date/Time:

9-23-02 14:00

Relinquished By:

Dunham

Date/Time:

9-24-02 8:30

Relinquished By:

Date/Time:

Received By:

Chris Boehm

Date/Time:

9-20-02 13:00

Received By:

Dunham

Date/Time:

9-23-02 14:00

Received By:

Kay Ry

Date/Time:

9-24-02 8:30

Received By:

Date/Time:

En Chem Project No:

926041

Sample Receipt Temp:

2.4°C

Sample Receipt pH (wet Metals):

N/A

Cooler Custody Seal

Present Not Present

Intact / Not Intact



Corporate Office & Laboratory
1241 Bellevue Street, Suite 9 • Green Bay, WI 54302
920-469-2436 • Fax: 920-469-8827 • 800-7-ENCHEM
www.enchem.com

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Client: ENSR CORPORATION

WI DNR LAB ID : 405132750

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
826041-001	MW-1	9/20/02			
826041-002	MW-3	9/20/02			
826041-003	MW-4	9/20/02			
826041-004	MW-4-DUP	9/20/02			

Please visit our Internet homepage at: www.enchem.com

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.


Approval Signature

09/30/02
Date

En Chem, Inc. Cooler Receipt Log

Batch No. 826041

Project Name or ID 09413-098

No. of Coolers: 1 Temps: 2.4 °C

A. Receipt Phase: Date cooler was opened: 9-24-02 By: JCK

- 1: Were samples received on ice? (Must be ≤ 6 C)..... YES NO²
- 2: Was there a Temperature Blank?..... YES NO
- 3: Were custody seals present and intact? (Record on COC)..... YES NO
- 4: Are COC documents present?..... YES NO²
- 5: Does this Project require quick turn around analysis?..... YES NO
- 6: Is there any sub-work?..... YES NO
- 7: Are there any short hold time tests?..... YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES¹ NO Contacted by/Who _____
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES¹ NO Contacted by/Who _____

B. Check-in Phase: Date samples were Checked-in: 9-24-02 By: JCK

- 1: Were all sample containers listed on the COC received and intact?..... YES NO² NA
- 2: Sign the COC as received by En Chem. Completed..... YES NO
- 3: Do sample labels match the COC? YES NO²
- 4: Check sample pH of preserved samples. (Not VOCs) Completed..... YES NO NA
- 5: Do samples have correct chemical preservation?..... YES NO² NA
- 6: Are dissolved parameters field filtered?..... YES NO² NA
- 7: Are sample volumes adequate for tests requested? YES NO²
- 8: Are VOC samples free of bubbles >6mm YES NO² NA
- 9: Enter samples into logbook. Completed..... YES NO
- 10: Place laboratory sample number on all containers and COC. Completed..... YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed..... YES NO NA
- 12: Start Nonconformance form. YES NO NA
- 13: Initiate Subcontracting procedure. Completed..... YES NO NA
- 14: Check laboratory sample number on all containers and COC. RJ YES NO NA

Short Hold-time tests:

48 Hours or less Coliform (6 hrs) Hexavalent Chromium (24 Hrs) BOD Nitrite or Nitrate Low Level Mercury Ortho Phosphorus Turbidity Surfactants Sulfite En Core Preservation Color	7 days Flashpoint TSS Total Solids TDS Sulfide Free Liquids Total Volatile Solids Aqueous Extractable Organics- ALL Unpreserved VOC's Ash	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
--	---	--

Rev. 9/5/2001, Attachment to 1-REC-5.
 Subject to QA Audit.

Reviewed by/date W 9/25/02

Organic Data Qualifiers

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit.
- D Analyte value from diluted analysis, or surrogate result not applicable due to sample dilution.
- E Analyte concentration exceeds calibration range.
- F Surrogate results outside control criteria.
- H Extraction or analysis performed past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection limit may be elevated due to the presence of an unrequested analyte.
- N Spiked sample recovery not within control limits.
- P The relative percent difference between the two columns for detected concentrations was greater than 40%.
- Q The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- S The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
- U The analyte was not detected above the reporting limit.
- W Sample received with headspace.
- X See Sample Narrative.
- & Laboratory Control Spike recovery not within control limits.
- * Duplicate analyses not within control limits.
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-1

Lab Sample Number : 826041-001

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/20/02

Matrix Type : WATER

Organic Results**EPA 8260 VOLATILE LIST- WATER**

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.25	0.25	0.80		ug/L		9/25/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		9/25/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		9/25/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		9/25/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4		ug/L		9/25/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		9/25/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		9/25/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		9/25/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		9/25/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		9/25/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		9/25/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		9/25/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		9/25/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		9/25/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		9/25/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		9/25/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		9/25/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		9/25/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		9/25/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		9/25/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		9/25/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		9/25/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		9/25/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		9/25/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		9/25/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		9/25/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		9/25/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5		ug/L		9/25/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		9/25/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		9/25/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		9/25/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		9/25/02	SW846 8260B

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-1

Lab Sample Number : 826041-001

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/20/02

Matrix Type : WATER

1,1-Dichloropropene	< 0.79	0.79	2.5	ug/L		9/25/02	SW846 8260B
cis-1,3-Dichloropropene	< 0.57	0.57	1.8	ug/L		9/25/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.64	0.64	2.0	ug/L		9/25/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9	ug/L		9/25/02	SW846 8260B
Ethylbenzene	< 0.53	0.53	1.7	ug/L		9/25/02	SW846 8260B
Fluorotrchloromethane	< 0.85	0.85	2.7	ug/L		9/25/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0	ug/L		9/25/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L		9/25/02	SW846 8260B
p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L		9/25/02	SW846 8260B
Methylene chloride	< 0.47	0.47	1.5	ug/L		9/25/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		9/25/02	SW846 8260B
Naphthalene	< 0.63	0.63	2.0	ug/L		9/25/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L		9/25/02	SW846 8260B
Styrene	< 0.62	0.62	2.0	ug/L	&	9/25/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		9/25/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.95	0.95	3.0	ug/L		9/25/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L		9/25/02	SW846 8260B
Toluene	< 0.84	0.84	2.7	ug/L		9/25/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		9/25/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		9/25/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L		9/25/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L		9/25/02	SW846 8260B
1,2,4-Trimethylbenzene	< 0.69	0.69	2.2	ug/L		9/25/02	SW846 8260B
Trichloroethene	< 0.39	0.39	1.2	ug/L		9/25/02	SW846 8260B
1,2,3-Trichloropropane	< 0.92	0.92	2.9	ug/L		9/25/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L		9/25/02	SW846 8260B
Vinyl chloride	< 0.11	0.11	0.35	ug/L		9/25/02	SW846 8260B
Xylenes, -m, -p	< 1.1	1.1	3.5	ug/L		9/25/02	SW846 8260B
Xylene, -o	< 0.73	0.73	2.3	ug/L		9/25/02	SW846 8260B
4-Bromofluorobenzene	107			%Recov		9/25/02	SW846 8260B
Dibromofluoromethane	101			%Recov		9/25/02	SW846 8260B
Toluene-d8	103			%Recov		9/25/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	106				%Recov		9/26/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-1

Lab Sample Number : 826041-001

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/20/02

Matrix Type : WATER

Nitrobenzene-d5	66			%Recov	9/26/02	SW846 8270C
2-Fluorobiphenyl	57			%Recov	9/26/02	SW846 8270C
Acenaphthene	< 0.018	0.018	0.057	ug/L	9/26/02	SW846 8270C
Acenaphthylene	< 0.023	0.023	0.073	ug/L	9/26/02	SW846 8270C
Anthracene	< 0.020	0.020	0.064	ug/L	9/26/02	SW846 8270C
Benzo(a)anthracene	< 0.019	0.019	0.061	ug/L	9/26/02	SW846 8270C
Benzo(a)pyrene	< 0.012	0.012	0.038	ug/L	9/26/02	SW846 8270C
Benzo(b)fluoranthene	< 0.014	0.014	0.045	ug/L	9/26/02	SW846 8270C
Benzo(g,h,i)perylene	< 0.015	0.015	0.048	ug/L	9/26/02	SW846 8270C
Benzo(k)fluoranthene	< 0.013	0.013	0.041	ug/L	9/26/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.014	0.014	0.045	ug/L	9/26/02	SW846 8270C
Chrysene	< 0.018	0.018	0.057	ug/L	9/26/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.017	0.017	0.054	ug/L	9/26/02	SW846 8270C
Fluoranthene	< 0.028	0.028	0.089	ug/L	9/26/02	SW846 8270C
Fluorene	< 0.021	0.021	0.067	ug/L	9/26/02	SW846 8270C
2-Methylnaphthalene	< 0.028	0.028	0.089	ug/L	9/26/02	SW846 8270C
1-Methylnaphthalene	< 0.027	0.027	0.086	ug/L	9/26/02	SW846 8270C
Naphthalene	< 0.027	0.027	0.086	ug/L	9/26/02	SW846 8270C
Phenanthrene	< 0.019	0.019	0.061	ug/L	9/26/02	SW846 8270C
Pyrene	< 0.020	0.020	0.064	ug/L	9/26/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-3

Lab Sample Number : 826041-002

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/20/02

Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	620	1.2	3.8		ug/L		9/27/02	SW846 8260B
Bromobenzene	< 3.7	3.7	12		ug/L		9/27/02	SW846 8260B
Bromochloromethane	< 3.4	3.4	11		ug/L		9/27/02	SW846 8260B
Bromodichloromethane	< 1.2	1.2	3.8		ug/L		9/27/02	SW846 8260B
Bromoform	< 2.2	2.2	7.0		ug/L		9/27/02	SW846 8260B
Bromomethane	< 4.3	4.3	14		ug/L		9/27/02	SW846 8260B
s-Butylbenzene	< 3.1	3.1	9.9		ug/L		9/27/02	SW846 8260B
t-Butylbenzene	< 4.8	4.8	15		ug/L		9/27/02	SW846 8260B
n-Butylbenzene	< 3.2	3.2	10		ug/L		9/27/02	SW846 8260B
Carbon tetrachloride	< 2.3	2.3	7.3		ug/L		9/27/02	SW846 8260B
Chloroform	< 2.2	2.2	7.0		ug/L		9/27/02	SW846 8260B
Chlorobenzene	< 2.9	2.9	9.2		ug/L		9/27/02	SW846 8260B
Chlorodibromomethane	< 4.2	4.2	13		ug/L		9/27/02	SW846 8260B
Chloroethane	< 4.2	4.2	13		ug/L		9/27/02	SW846 8260B
Chloromethane	< 1.4	1.4	4.5		ug/L		9/27/02	SW846 8260B
2-Chlorotoluene	< 3.3	3.3	11		ug/L		9/27/02	SW846 8260B
4-Chlorotoluene	< 4.5	4.5	14		ug/L		9/27/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 4.4	4.4	14		ug/L		9/27/02	SW846 8260B
1,2-Dibromoethane	< 3.3	3.3	11		ug/L		9/27/02	SW846 8260B
Dibromomethane	< 3.7	3.7	12		ug/L		9/27/02	SW846 8260B
1,3-Dichlorobenzene	< 2.9	2.9	9.2		ug/L		9/27/02	SW846 8260B
1,4-Dichlorobenzene	< 3.1	3.1	9.9		ug/L		9/27/02	SW846 8260B
1,2-Dichloroethane	< 2.8	2.8	8.9		ug/L		9/27/02	SW846 8260B
1,2-Dichlorobenzene	< 3.5	3.5	11		ug/L		9/27/02	SW846 8260B
1,1-Dichloroethene	< 2.8	2.8	8.9		ug/L		9/27/02	SW846 8260B
cis-1,2-Dichloroethene	< 4.0	4.0	13		ug/L		9/27/02	SW846 8260B
Dichlorodifluoromethane	< 2.8	2.8	8.9		ug/L		9/27/02	SW846 8260B
trans-1,2-Dichloroethene	< 4.0	4.0	13		ug/L		9/27/02	SW846 8260B
1,2-Dichloropropane	< 1.9	1.9	6.1		ug/L		9/27/02	SW846 8260B
1,1-Dichloroethane	< 4.3	4.3	14		ug/L		9/27/02	SW846 8260B
1,3-Dichloropropane	< 3.1	3.1	9.9		ug/L		9/27/02	SW846 8260B
2,2-Dichloropropane	< 5.0	5.0	16		ug/L		9/27/02	SW846 8260B

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-3

Lab Sample Number : 826041-002

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/20/02

Matrix Type : WATER

1,1-Dichloropropene	< 4.0	4.0	13	ug/L		9/27/02	SW846 8260B
cis-1,3-Dichloropropene	< 2.8	2.8	8.9	ug/L		9/27/02	SW846 8260B
trans-1,3-Dichloropropene	< 3.2	3.2	10	ug/L		9/27/02	SW846 8260B
Diisopropyl ether	< 3.0	3.0	9.6	ug/L		9/27/02	SW846 8260B
Ethylbenzene	45	2.6	8.3	ug/L		9/27/02	SW846 8260B
Fluorotrichloromethane	< 4.2	4.2	13	ug/L		9/27/02	SW846 8260B
Hexachlorobutadiene	< 4.8	4.8	15	ug/L		9/27/02	SW846 8260B
Isopropylbenzene	< 3.3	3.3	11	ug/L		9/27/02	SW846 8260B
p-Isopropyltoluene	< 2.9	2.9	9.2	ug/L		9/27/02	SW846 8260B
Methylene chloride	< 2.3	2.3	7.3	ug/L		9/27/02	SW846 8260B
Methyl-tert-butyl-ether	< 4.3	4.3	14	ug/L		9/27/02	SW846 8260B
Naphthalene	330	3.1	9.9	ug/L		9/27/02	SW846 8260B
n-Propylbenzene	< 4.8	4.8	15	ug/L		9/27/02	SW846 8260B
Styrene	< 3.1	3.1	9.9	ug/L	&	9/27/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 3.9	3.9	12	ug/L		9/27/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 4.8	4.8	15	ug/L		9/27/02	SW846 8260B
Tetrachloroethene	< 3.1	3.1	9.9	ug/L		9/27/02	SW846 8260B
Toluene	100	4.2	13	ug/L		9/27/02	SW846 8260B
1,2,3-Trichlorobenzene	< 3.9	3.9	12	ug/L		9/27/02	SW846 8260B
1,2,4-Trichlorobenzene	< 2.8	2.8	8.9	ug/L		9/27/02	SW846 8260B
1,1,1-Trichloroethane	< 3.2	3.2	10	ug/L		9/27/02	SW846 8260B
1,1,2-Trichloroethane	< 2.5	2.5	8.0	ug/L		9/27/02	SW846 8260B
1,2,4-Trimethylbenzene	26	3.4	11	ug/L		9/27/02	SW846 8260B
Trichloroethene	< 1.9	1.9	6.1	ug/L		9/27/02	SW846 8260B
1,2,3-Trichloropropane	< 4.6	4.6	15	ug/L		9/27/02	SW846 8260B
1,3,5-Trimethylbenzene	11	3.2	10	ug/L		9/27/02	SW846 8260B
Vinyl chloride	< 0.55	0.55	1.8	ug/L		9/27/02	SW846 8260B
Xylenes, -m, -p	130	5.5	18	ug/L		9/27/02	SW846 8260B
Xylene, -o	96	3.6	11	ug/L		9/27/02	SW846 8260B
4-Bromofluorobenzene	106			%Recov		9/27/02	SW846 8260B
Dibromofluoromethane	100			%Recov		9/27/02	SW846 8260B
Toluene-d8	102			%Recov		9/27/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	91				%Recov		9/27/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-3

Lab Sample Number : 826041-002

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/20/02

Matrix Type : WATER

Nitrobenzene-d5	77			%Recov		9/27/02	SW846 8270C
2-Fluorobiphenyl	58			%Recov		9/27/02	SW846 8270C
Acenaphthene	< 7.2	7.2	23	ug/L	D	9/27/02	SW846 8270C
Acenaphthylene	< 9.2	9.2	29	ug/L	D	9/27/02	SW846 8270C
Anthracene	0.27	0.020	0.064	ug/L		9/27/02	SW846 8270C
Benzo(a)anthracene	< 0.019	0.019	0.061	ug/L		9/27/02	SW846 8270C
Benzo(a)pyrene	0.014	0.012	0.038	ug/L	Q	9/27/02	SW846 8270C
Benzo(b)fluoranthene	< 0.014	0.014	0.045	ug/L		9/27/02	SW846 8270C
Benzo(g,h,i)perylene	< 0.015	0.015	0.048	ug/L		9/27/02	SW846 8270C
Benzo(k)fluoranthene	< 0.013	0.013	0.041	ug/L		9/27/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.014	0.014	0.045	ug/L		9/27/02	SW846 8270C
Chrysene	< 0.018	0.018	0.057	ug/L		9/27/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.017	0.017	0.054	ug/L		9/27/02	SW846 8270C
Fluoranthene	0.061	0.028	0.089	ug/L	Q	9/27/02	SW846 8270C
Fluorene	< 8.4	8.4	27	ug/L	D	9/27/02	SW846 8270C
2-Methylnaphthalene	15	11	35	ug/L	QD	9/27/02	SW846 8270C
1-Methylnaphthalene	22	11	35	ug/L	QD	9/27/02	SW846 8270C
Naphthalene	160	11	35	ug/L	D	9/27/02	SW846 8270C
Phenanthrene	< 7.6	7.6	24	ug/L	D	9/27/02	SW846 8270C
Pyrene	0.076	0.020	0.064	ug/L		9/27/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-4

Lab Sample Number : 826041-003

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/20/02

Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	120000	250	800		ug/L		9/26/02	SW846 8260B
Bromobenzene	< 740	740	2400		ug/L		9/26/02	SW846 8260B
Bromochloromethane	< 670	670	2100		ug/L		9/26/02	SW846 8260B
Bromodichloromethane	< 230	230	730		ug/L		9/26/02	SW846 8260B
Bromoform	< 450	450	1400		ug/L		9/26/02	SW846 8260B
Bromomethane	< 870	870	2800		ug/L		9/26/02	SW846 8260B
s-Butylbenzene	< 620	620	2000		ug/L		9/26/02	SW846 8260B
t-Butylbenzene	< 960	960	3100		ug/L		9/26/02	SW846 8260B
n-Butylbenzene	< 650	650	2100		ug/L		9/26/02	SW846 8260B
Carbon tetrachloride	< 470	470	1500		ug/L		9/26/02	SW846 8260B
Chloroform	< 450	450	1400		ug/L		9/26/02	SW846 8260B
Chlorobenzene	< 580	580	1800		ug/L		9/26/02	SW846 8260B
Chlorodibromomethane	< 840	840	2700		ug/L		9/26/02	SW846 8260B
Chloroethane	< 840	840	2700		ug/L		9/26/02	SW846 8260B
Chloromethane	< 270	270	860		ug/L		9/26/02	SW846 8260B
2-Chlorotoluene	< 660	660	2100		ug/L		9/26/02	SW846 8260B
4-Chlorotoluene	< 890	890	2800		ug/L		9/26/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 880	880	2800		ug/L		9/26/02	SW846 8260B
1,2-Dibromoethane	< 660	660	2100		ug/L		9/26/02	SW846 8260B
Dibromomethane	< 740	740	2400		ug/L		9/26/02	SW846 8260B
1,3-Dichlorobenzene	< 580	580	1800		ug/L		9/26/02	SW846 8260B
1,4-Dichlorobenzene	< 630	630	2000		ug/L		9/26/02	SW846 8260B
1,2-Dichloroethane	< 550	550	1800		ug/L		9/26/02	SW846 8260B
1,2-Dichlorobenzene	< 710	710	2300		ug/L		9/26/02	SW846 8260B
1,1-Dichloroethene	< 560	560	1800		ug/L		9/26/02	SW846 8260B
cis-1,2-Dichloroethene	< 810	810	2600		ug/L		9/26/02	SW846 8260B
Dichlorodifluoromethane	< 570	570	1800		ug/L		9/26/02	SW846 8260B
trans-1,2-Dichloroethene	< 800	800	2500		ug/L		9/26/02	SW846 8260B
1,2-Dichloropropane	< 390	390	1200		ug/L		9/26/02	SW846 8260B
1,1-Dichloroethane	< 870	870	2800		ug/L		9/26/02	SW846 8260B
1,3-Dichloropropane	< 620	620	2000		ug/L		9/26/02	SW846 8260B
2,2-Dichloropropane	< 990	990	3200		ug/L		9/26/02	SW846 8260B

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-4

Lab Sample Number : 826041-003

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/20/02

Matrix Type : WATER

1,1-Dichloropropene	< 790	790	2500	ug/L		9/26/02	SW846 8260B
cis-1,3-Dichloropropene	< 570	570	1800	ug/L		9/26/02	SW846 8260B
trans-1,3-Dichloropropene	< 640	640	2000	ug/L		9/26/02	SW846 8260B
Diisopropyl ether	< 600	600	1900	ug/L		9/26/02	SW846 8260B
Ethylbenzene	< 530	530	1700	ug/L		9/26/02	SW846 8260B
Fluorotrichloromethane	< 850	850	2700	ug/L		9/26/02	SW846 8260B
Hexachlorobutadiene	< 950	950	3000	ug/L		9/26/02	SW846 8260B
Isopropylbenzene	< 660	660	2100	ug/L		9/26/02	SW846 8260B
p-Isopropyltoluene	< 580	580	1800	ug/L		9/26/02	SW846 8260B
Methylene chloride	< 470	470	1500	ug/L		9/26/02	SW846 8260B
Methyl-tert-butyl-ether	< 870	870	2800	ug/L		9/26/02	SW846 8260B
Naphthalene	< 630	630	2000	ug/L		9/26/02	SW846 8260B
n-Propylbenzene	< 950	950	3000	ug/L		9/26/02	SW846 8260B
Styrene	< 620	620	2000	ug/L	&	9/26/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 770	770	2500	ug/L		9/26/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 950	950	3000	ug/L		9/26/02	SW846 8260B
Tetrachloroethene	< 630	630	2000	ug/L		9/26/02	SW846 8260B
Toluene	< 840	840	2700	ug/L		9/26/02	SW846 8260B
1,2,3-Trichlorobenzene	< 770	770	2500	ug/L		9/26/02	SW846 8260B
1,2,4-Trichlorobenzene	< 570	570	1800	ug/L		9/26/02	SW846 8260B
1,1,1-Trichloroethane	< 650	650	2100	ug/L		9/26/02	SW846 8260B
1,1,2-Trichloroethane	< 500	500	1600	ug/L		9/26/02	SW846 8260B
1,2,4-Trimethylbenzene	< 690	690	2200	ug/L		9/26/02	SW846 8260B
Trichloroethene	< 390	390	1200	ug/L		9/26/02	SW846 8260B
1,2,3-Trichloropropane	< 920	920	2900	ug/L		9/26/02	SW846 8260B
1,3,5-Trimethylbenzene	< 640	640	2000	ug/L		9/26/02	SW846 8260B
Vinyl chloride	< 110	110	350	ug/L		9/26/02	SW846 8260B
Xylenes, -m, -p	< 1100	1100	3500	ug/L		9/26/02	SW846 8260B
Xylene, -o	< 730	730	2300	ug/L		9/26/02	SW846 8260B
4-Bromofluorobenzene	106			%Recov		9/26/02	SW846 8260B
Dibromofluoromethane	102			%Recov		9/26/02	SW846 8260B
Toluene-d8	102			%Recov		9/26/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	102				%Recov		9/26/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-4

Lab Sample Number : 826041-003

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/20/02

Matrix Type : WATER

Nitrobenzene-d5	75			%Recov		9/26/02	SW846 8270C
2-Fluorobiphenyl	63			%Recov		9/26/02	SW846 8270C
Acenaphthene	< 0.018	0.018	0.057	ug/L		9/26/02	SW846 8270C
Acenaphthylene	< 0.023	0.023	0.073	ug/L		9/26/02	SW846 8270C
Anthracene	< 0.020	0.020	0.064	ug/L		9/26/02	SW846 8270C
Benzo(a)anthracene	< 0.019	0.019	0.061	ug/L		9/26/02	SW846 8270C
Benzo(a)pyrene	< 0.012	0.012	0.038	ug/L		9/26/02	SW846 8270C
Benzo(b)fluoranthene	< 0.014	0.014	0.045	ug/L		9/26/02	SW846 8270C
Benzo(g,h,i)perylene	< 0.015	0.015	0.048	ug/L		9/26/02	SW846 8270C
Benzo(k)fluoranthene	< 0.013	0.013	0.041	ug/L		9/26/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.014	0.014	0.045	ug/L		9/26/02	SW846 8270C
Chrysene	< 0.018	0.018	0.057	ug/L		9/26/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.017	0.017	0.054	ug/L		9/26/02	SW846 8270C
Fluoranthene	< 0.028	0.028	0.089	ug/L		9/26/02	SW846 8270C
Fluorene	< 0.021	0.021	0.067	ug/L		9/26/02	SW846 8270C
2-Methylnaphthalene	0.059	0.028	0.089	ug/L	Q	9/26/02	SW846 8270C
1-Methylnaphthalene	0.042	0.027	0.086	ug/L	Q	9/26/02	SW846 8270C
Naphthalene	0.38	0.027	0.086	ug/L		9/26/02	SW846 8270C
Phenanthrene	< 0.019	0.019	0.061	ug/L		9/26/02	SW846 8270C
Pyrene	< 0.020	0.020	0.064	ug/L		9/26/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-4-DUP

Lab Sample Number : 826041-004

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/20/02

Matrix Type : WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER

Prep Method: SW846 5030B

Prep Date: 9/25/02

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	130000	250	800		ug/L		9/26/02	SW846 8260B
Bromobenzene	< 740	740	2400		ug/L		9/26/02	SW846 8260B
Bromochloromethane	< 670	670	2100		ug/L		9/26/02	SW846 8260B
Bromodichloromethane	< 230	230	730		ug/L		9/26/02	SW846 8260B
Bromoform	< 450	450	1400		ug/L		9/26/02	SW846 8260B
Bromomethane	< 870	870	2800		ug/L		9/26/02	SW846 8260B
s-Butylbenzene	< 620	620	2000		ug/L		9/26/02	SW846 8260B
t-Butylbenzene	< 960	960	3100		ug/L		9/26/02	SW846 8260B
n-Butylbenzene	< 650	650	2100		ug/L		9/26/02	SW846 8260B
Carbon tetrachloride	< 470	470	1500		ug/L		9/26/02	SW846 8260B
Chloroform	< 450	450	1400		ug/L		9/26/02	SW846 8260B
Chlorobenzene	< 580	580	1800		ug/L		9/26/02	SW846 8260B
Chlorodibromomethane	< 840	840	2700		ug/L		9/26/02	SW846 8260B
Chloroethane	< 840	840	2700		ug/L		9/26/02	SW846 8260B
Chloromethane	< 270	270	860		ug/L		9/26/02	SW846 8260B
2-Chlorotoluene	< 660	660	2100		ug/L		9/26/02	SW846 8260B
4-Chlorotoluene	< 890	890	2800		ug/L		9/26/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 880	880	2800		ug/L		9/26/02	SW846 8260B
1,2-Dibromoethane	< 660	660	2100		ug/L		9/26/02	SW846 8260B
Dibromomethane	< 740	740	2400		ug/L		9/26/02	SW846 8260B
1,3-Dichlorobenzene	< 580	580	1800		ug/L		9/26/02	SW846 8260B
1,4-Dichlorobenzene	< 630	630	2000		ug/L		9/26/02	SW846 8260B
1,2-Dichloroethane	< 550	550	1800		ug/L		9/26/02	SW846 8260B
1,2-Dichlorobenzene	< 710	710	2300		ug/L		9/26/02	SW846 8260B
1,1-Dichloroethene	< 560	560	1800		ug/L		9/26/02	SW846 8260B
cis-1,2-Dichloroethene	< 810	810	2600		ug/L		9/26/02	SW846 8260B
Dichlorodifluoromethane	< 570	570	1800		ug/L		9/26/02	SW846 8260B
trans-1,2-Dichloroethene	< 800	800	2500		ug/L		9/26/02	SW846 8260B
1,2-Dichloropropane	< 390	390	1200		ug/L		9/26/02	SW846 8260B
1,1-Dichloroethane	< 870	870	2800		ug/L		9/26/02	SW846 8260B
1,3-Dichloropropane	< 620	620	2000		ug/L		9/26/02	SW846 8260B
2,2-Dichloropropane	< 990	990	3200		ug/L		9/26/02	SW846 8260B

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-4-DUP

Lab Sample Number : 826041-004

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/20/02

Matrix Type : WATER

1,1-Dichloropropene	< 790	790	2500	ug/L		9/26/02	SW846 8260B
cis-1,3-Dichloropropene	< 570	570	1800	ug/L		9/26/02	SW846 8260B
trans-1,3-Dichloropropene	< 640	640	2000	ug/L		9/26/02	SW846 8260B
Diisopropyl ether	< 600	600	1900	ug/L		9/26/02	SW846 8260B
Ethylbenzene	< 530	530	1700	ug/L		9/26/02	SW846 8260B
Fluorotrichloromethane	< 850	850	2700	ug/L		9/26/02	SW846 8260B
Hexachlorobutadiene	< 950	950	3000	ug/L		9/26/02	SW846 8260B
Isopropylbenzene	< 660	660	2100	ug/L		9/26/02	SW846 8260B
p-Isopropyltoluene	< 580	580	1800	ug/L		9/26/02	SW846 8260B
Methylene chloride	< 470	470	1500	ug/L		9/26/02	SW846 8260B
Methyl-tert-butyl-ether	< 870	870	2800	ug/L		9/26/02	SW846 8260B
Naphthalene	< 630	630	2000	ug/L		9/26/02	SW846 8260B
n-Propylbenzene	< 950	950	3000	ug/L		9/26/02	SW846 8260B
Styrene	< 620	620	2000	ug/L	&	9/26/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 770	770	2500	ug/L		9/26/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 950	950	3000	ug/L		9/26/02	SW846 8260B
Tetrachloroethene	< 630	630	2000	ug/L		9/26/02	SW846 8260B
Toluene	960	840	2700	ug/L	Q	9/26/02	SW846 8260B
1,2,3-Trichlorobenzene	< 770	770	2500	ug/L		9/26/02	SW846 8260B
1,2,4-Trichlorobenzene	< 570	570	1800	ug/L		9/26/02	SW846 8260B
1,1,1-Trichloroethane	< 650	650	2100	ug/L		9/26/02	SW846 8260B
1,1,2-Trichloroethane	< 500	500	1600	ug/L		9/26/02	SW846 8260B
1,2,4-Trimethylbenzene	< 690	690	2200	ug/L		9/26/02	SW846 8260B
Trichloroethene	< 390	390	1200	ug/L		9/26/02	SW846 8260B
1,2,3-Trichloropropane	< 920	920	2900	ug/L		9/26/02	SW846 8260B
1,3,5-Trimethylbenzene	< 640	640	2000	ug/L		9/26/02	SW846 8260B
Vinyl chloride	< 110	110	350	ug/L		9/26/02	SW846 8260B
Xylenes, -m, -p	< 1100	1100	3500	ug/L		9/26/02	SW846 8260B
Xylene, -o	< 730	730	2300	ug/L		9/26/02	SW846 8260B
4-Bromofluorobenzene	104			%Recov		9/26/02	SW846 8260B
Dibromofluoromethane	102			%Recov		9/26/02	SW846 8260B
Toluene-d8	101			%Recov		9/26/02	SW846 8260B

Organic Results

PAH/PNA - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 9/25/02

Analyst: RJN

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Terphenyl-d14	101				%Recov		9/26/02	SW846 8270C

- Analytical Report -

Project Name : SWL & P MGP

Project Number : 09413-098

Field ID : MW-4-DUP

Lab Sample Number : 826041-004

WI DNR LAB ID : 405132750

Client : ENSR CORPORATION

Report Date : 9/30/02

Collection Date : 9/20/02

Matrix Type : WATER

Nitrobenzene-d5	70			%Recov		9/26/02	SW846 8270C
2-Fluorobiphenyl	56			%Recov		9/26/02	SW846 8270C
Acenaphthene	< 0.018	0.018	0.057	ug/L		9/26/02	SW846 8270C
Acenaphthylene	< 0.023	0.023	0.073	ug/L		9/26/02	SW846 8270C
Anthracene	< 0.020	0.020	0.064	ug/L		9/26/02	SW846 8270C
Benzo(a)anthracene	< 0.019	0.019	0.061	ug/L		9/26/02	SW846 8270C
Benzo(a)pyrene	< 0.012	0.012	0.038	ug/L		9/26/02	SW846 8270C
Benzo(b)fluoranthene	< 0.014	0.014	0.045	ug/L		9/26/02	SW846 8270C
Benzo(g,h,i)perylene	< 0.015	0.015	0.048	ug/L		9/26/02	SW846 8270C
Benzo(k)fluoranthene	< 0.013	0.013	0.041	ug/L		9/26/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 0.014	0.014	0.045	ug/L		9/26/02	SW846 8270C
Chrysene	< 0.018	0.018	0.057	ug/L		9/26/02	SW846 8270C
Dibenzo(a,h)anthracene	< 0.017	0.017	0.054	ug/L		9/26/02	SW846 8270C
Fluoranthene	< 0.028	0.028	0.089	ug/L		9/26/02	SW846 8270C
Fluorene	< 0.021	0.021	0.067	ug/L		9/26/02	SW846 8270C
2-Methylnaphthalene	0.048	0.028	0.089	ug/L	Q	9/26/02	SW846 8270C
1-Methylnaphthalene	0.033	0.027	0.086	ug/L	Q	9/26/02	SW846 8270C
Naphthalene	0.32	0.027	0.086	ug/L		9/26/02	SW846 8270C
Phenanthrene	< 0.019	0.019	0.061	ug/L		9/26/02	SW846 8270C
Pyrene	< 0.020	0.020	0.064	ug/L		9/26/02	SW846 8270C

APPENDIX F

GTI Fingerprinting Analytical Report

**COMPARATIVE ANALYSIS OF EIGHT SOIL SAMPLES
FROM THE SWL&P FORMER MGP SITE,
SUPERIOR, WISCONSIN**

Prepared by

**GAS TECHNOLOGY INSTITUTE
1700 South Mount Prospect Road
Des Plaines, Illinois 60018**

for

**SUPERIOR WATER, LIGHT & POWER
2915 Hill Avenue
P.O. Box 519
Superior, Wisconsin 54880**

February, 2003



**COMPARATIVE ANALYSIS OF EIGHT SOIL SAMPLES
FROM THE SWL&P FORMER MGP SITE,
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Superior, Wisconsin 54880**

February, 2003



EXECUTIVE SUMMARY

The Gas Technology Institute has conducted a comparative study of soil samples collected from the Superior Water, Light and Power Company (SWL&P) former manufactured gas plant site in Superior, Wisconsin. Samples were tested and evaluated against known standards for the presence of pyrogenic substances (tars), petrogenic substances (crude oil derivatives) and other organic compounds. This study has defined potential sources for the contamination at the site through chemical fingerprinting.

Using GC/FID fingerprinting techniques, results concluded that six of the eight soils from the SWL&P Site contained both petrogenic and pyrogenic substances. Samples T10-1, T10-2, T10-3, B-11-12-13, B-12-11-12 and B-13-12-13 demonstrated PAH patterns and diagnostic ratios which indicated MGP-type tar, probably from a carbureted water gas (CWG) process. The samples also contained a petrogenic fraction, characterized by an unresolved complex mixture in the C10 to C40 range. This is characteristic of #5 and #6 fuel oils. Samples T10-1, T10-2, T10-3, B-11-12-13, B-12-11-12 and B-13-12-13 are highly similar to each other.

Chemical fingerprints of samples B-23-6-8 and B-23-10-12 showed only the presence of a gasoline-range material. No pyrogenic substances were detected in these two samples. The lack of tri- and tetra-alkyl benzenes indicates that the gasoline-range material is not gasoline. The gasoline-range material consists almost exclusively of benzene and toluene, with lesser amounts of xylenes, ethylbenzene and a very small quantity of styrene. This material is similar to a blended volatile petroleum solvent

INTRODUCTION

Superior Water, Light and Power Company (SWL&P) has contracted the Gas Technology Institute (GTI) to determine whether organic residues found in soil samples from their Superior, Wisconsin former manufactured gas plant (MGP) site are chemically similar or dissimilar to petrogenic, pyrogenic or other organic materials specifically associated with MGP operations. GTI has performed a series of highly definitive, defensible tests designed to determine the generic source of the organic material, to determine the chemical similarity or dissimilarity between all samples, and to determine the exact composition of the samples.

Recent trends in environmental investigation, particularly of sites containing former MGP materials, have increasingly employed the use of environmental forensic techniques to identify specific wastes. Environmental forensic methodologies have been especially effective in discerning MGP-type tars from other tars and waste mixtures. Former MGP wastes possess distinct "chemical fingerprints", based upon the gas production process used and other factors. This is also true of other tar wastes, such as asphalt/roofing tar, creosotes or other types. Chemical fingerprinting is also able to identify compounds associated with the tars, either from distinctly separate sources or purposely co-mingled with the tar. Therefore, analysis and comparison of specific fingerprints with known standards may elucidate the sources of the contamination.

Chemical fingerprinting has also been applied to site investigations, in order to determine the extent of organic residues that may be attributable to specific sources. The chemical fingerprints of site samples can be compared to each other and to off-site sample fingerprints, to determine if off-site impacts are caused by on-site sources. As such, environmental forensic methods have been increasingly applied to a variety of site investigation efforts.

Hydrocarbons, such as those found on former MGP sites, can be divided into three classes: petrogenic substances, pyrogenic substances, and diagenetic substances. Petrogenic substances can be defined as substances originating from petroleum, including crude oil, fuels, lubricants and derivatives of those materials. Aliphatic and aromatic hydrocarbons constitute the vast majority of compounds in petrogenic substances. Two features most clearly represent fresh

crude oil: 1) a regular series of normal alkanes peaks (the "picket fence") on the chromatogram, and, 2) the "hump" in the baseline of the chromatogram (unresolved complex mixture.) The fraction of crude oil contained in the sample (i.e., gasoline, diesel fuel, kerosene, etc.) can be determined by examination of the elution time of the cluster of peaks and the presence of particular compounds.

Pyrogenic substances can be defined as those organic substances originating from oxygen-depleted high temperature processes, including: incomplete combustion, pyrolysis, cracking and destructive distillation. Pyrogenic materials consist primarily of aromatic hydrocarbons. By definition, tar is a pyrogenic material. MGP-type tars, because of the conditions under which they were formed, are distinct. The resulting chromatograms possess a particular pattern. However, examination of the ratios of particular polynuclear aromatic hydrocarbons (PAHs) and alkylated PAHs can be used as indicator of the source of the material. Typically, the ratios of fluoranthene to pyrene and dibenzofuran to fluorine are most often examined. Comparison of these ratios can discern MGP tars from non-MGP tars as well as within the grouping of MGP tars (for instance, carburetted water gas tar from oil gas or coal carbonization tar). Identification of the tars may also be based upon the relative abundance of certain PAHs, such as naphthalene and anthracene.

Diagenetic substances include PAHs from natural sources. These sources include plants and buried organic material, including municipal waste.

METHODOLOGY

GTI has completed chemical forensic analysis of eight soil samples from a former MGP site in Superior, Wisconsin. These samples include Sample T10-1, Sample T10-2, Sample T10-3, Sample B-11-12-13, Sample B-12-11-12, Sample B-13-12-13, Samples B-23-6-8 and Sample B-23-10-12. Analyses of these samples have included identification and/or quantification of: 1) monocyclic hydrocarbons (MAHs), 2) polycyclic aromatic hydrocarbons (PAHs), and, 3) aliphatic hydrocarbons and polar hydrocarbons. Analyses and hydrocarbon fingerprinting were performed using gas chromatography with flame ionization detection (GC/FID) and gas chromatography with mass spectrometry (GC/MS). The soil samples were prepared by solvent extraction (EPA 3570) using dichloromethane (DCM). The extracts were spiked with internal standards and analyzed by GC/FID (EPA 8100 mod.) and GC/MS (EPA 8270 mod.).

The GC/FID method of analysis is routinely used to identify specific compounds present in a sample, which can then be compared with a "standard" sample of known origin or composition. The GC/FID analysis does not quantify the compounds found in the mixture. Results obtained from a single GC/FID scan show the FID detector response versus residence time of each compound in the chromatographic column. The pattern of peaks versus residence time that is generated in the GC/FID scan is sometimes referred to as the "fingerprint" of the sample. In this way, an investigator may "fingerprint" the sample by comparing scan features of the test sample with scan features of a control sample. For instance, particular relative ratios of one compound to another, the relatively high concentration of a compound or the absence of particular compounds may be indicative of a carburetted water gas tar, a high temperature coal tar or a mixture of alternate origin. Generally, several identified reference samples are used when conducting the GC/FID analysis, so that the test sample may be compared with accuracy.

In order to quantify the compounds or classes of compounds contained in the sample mixture, the sample is then subjected to a second set of analyses through GC/MS. In GC/MS, chromatograms are produced which show peaks that are similar to the chromatograms obtained in GC/FID analysis, but additional compound-specific information is obtained as well. When performed in a controlled and reproducible manner, the GC/MS method produces multiple "fingerprints" of a

sample when specific fragment ions are isolated. Analysis of the specific ions can be highly useful in sample identification. Additionally, compounds of certain target classes, such as biomarker compounds, can be selectively measured.

Results of these analyses are included in this report, with expanded analytical data detailed in Appendices A-E.

INTERPRETATION

Based upon review of the data, the following interpretation of data is presented.

Sample T10-1 This sample contained pyrogenic and petrogenic substances (see definitions above). The pattern of PAHs, especially the ratios of fluoranthene to pyrene and dibenzofuran to fluorene indicate that this sample contains MGP tar, probably from a carburetted water gas (CWG) process. The presence of MAHs and the high concentration of naphthalene relative to other PAHs indicate that this material is relatively unweathered. The amounts of MAHs relative to PAHs are higher than is usually seen in MGP tars, suggesting a mixture of materials.

The petroleum is indicated by an unresolved complex mixture (UCM or "hump") which eluted from approximately decane (C10 – 9 minutes) to beyond tetracontane (C40 – 45 minutes). Examples of common petroleum products with these features include wide spectrum distillates such as the types of gas oils used in typical CWG processes, as well as residual oils such as #5 and #6 oils. These types of materials are sometimes seen at MGP sites, but may be indicative of other sources.

Sample T10-2 This sample also contained pyrogenic and petrogenic substances. The patterns and ratios of PAHs indicate that this sample contains MGP tar, probably CWG. The reduced amounts of MAHs and naphthalene relative to other PAHs indicate that this material has been subject to mild weathering.

The petroleum is indicated by a UCM similar in range and shape to that seen on sample T10-1.

Sample T10-3 This sample also contained pyrogenic and petrogenic substances. The patterns and ratios of PAHs indicate that this sample contains MGP tar, probably CWG tar. The presence of MAHs and the high concentration of naphthalene relative to other PAHs indicate that this material is relatively unweathered. However, the amounts of MAHs relative to PAHs are much higher than is usually seen in MGP tars, suggesting mixed products.

The petroleum is indicated by a UCM similar in range and shape to that seen on sample T10-1.

Sample B-11-12-13 This sample also contained pyrogenic and petrogenic substances. The patterns and ratios of PAHs indicate that this sample contains MGP tar, probably CWG. The reduced amounts of naphthalene relative to other PAHs indicate that this material has been subject to mild weathering. However, the amounts of MAHs relative to PAHs are much higher than is usually seen in MGP tars, suggesting mixed products.

The petroleum is indicated by a UCM similar in range and shape to that seen on sample T10-1.

Sample B-12-11-12 This sample also contained pyrogenic and petrogenic substances. The patterns and ratios of PAHs indicate that this sample contains MGP tar, probably CWG. The reduced amounts of naphthalene relative to other PAHs indicate that this material has been subject to mild weathering. However, the amounts of MAHs relative to PAHs are much higher than is usually seen in MGP tars, suggesting mixed products.

The petroleum is indicated by a UCM similar in range and shape to that seen on sample T10-1.

Sample B-13-12-13 This sample also contained pyrogenic and petrogenic substances. The patterns and ratios of PAHs indicate that this sample contains MGP tar, probably CWG. The reduced amounts of naphthalene relative to other PAHs indicate that this material has been subject to mild weathering. However, the amounts of MAHs, especially toluene, relative to PAHs are higher than is usually seen in MGP tars, suggesting mixed products.

The petroleum is indicated by a UCM similar in range and shape to that seen on sample T10-1.

Sample B-23-6-8 This sample contained a gasoline-range product. However, the lack of tri- and tetra-alkyl benzenes indicates that it is not gasoline. Based on this composition, the material can be described as a volatile petroleum solvent.

Sample B-23-10-12 This sample also contained a gasoline-range product similar to that found in sample B-23-6-8.

DISCUSSION

Recent work by GTI, collaborative laboratories (META Environmental, Inc.) and EPRI (1) has shown that pyrogenic materials from different sources have characteristic compound ratios. For example, the ratios of fluoranthene to pyrene in wastes from former MGP plants operating the relatively low temperature CWG process range from about 0.6 to 0.8 typically. This is in contrast to coke oven tars and other pyrogenic materials generated at relatively high temperatures where the fluoranthene to pyrene ratios range from about 1.0 to about 1.4. Similarly, CWG wastes are low in oxygen containing compounds. Thus, the ratio of dibenzofuran (an oxygen-containing compound) to fluorine in CWG wastes ranges from about 0.1 to 0.4 while the same ratio in coal tars ranges from about 0.4 to 0.8. Other compound ratios and chemical indicators have been identified. These ratios are relatively stable in the environment over time and during the various refining processes that produce coal tar-based products. The source ratios for samples T10-1, T10-2, T10-3, B-11-12-13, B-12-12, and B-13-12-13 ranged from 0.74 to 0.81 for fluoranthene/pyrene and 0.05 to 0.11 for dibenzofuran/fluorene indicating low temperature gas plant wastes probably from a CWG plant.

Total PAH concentration is also indicative of chemical source. Contamination by PAHs can be found at both high and low concentrations throughout urban America. Recent work by GTI, collaborative laboratories and EPRI (2) has shown that *high* concentrations of PAHs in soil are not "background", but generally originated from one or more concentrated sources, such as coal tar, creosote, or other coal tar products. A survey of PAHs in surface soil samples from randomly-selected, visually un-impacted sites in small to large cities and towns indicated that "background levels" of total PAHs are generally *less than* 50 mg/kg. Thus, samples with greater than 50 to 100 mg/kg total PAHs are most likely to be impacted by one or more concentrated PAH sources, such as coal tar, coal tar products, or some petroleum products. The concentrations of total PAHs in samples T10-1, T10-2, T10-3, B-11-12-13, B-12-11-12, and B-13-12-13 were all well above 100 mg/kg. These results combined with the fingerprints indicate that these samples contained MGP wastes.

Because of the relatively high concentrations of mono-aromatic hydrocarbons (MAHs) in the samples from the site, the nature and concentrations of volatile compounds was examined in detail. In GTI's experience, as well as in other referenced literature (1, 3), the levels of benzene, toluene, and xylenes (BTX) in pyrogenic sources, including gas plant and coke oven residues are *less than* those of naphthalene and other PAHs. Furthermore, BTX are never found as sole constituents in samples from these sites, except in *some* groundwater samples in their dissolved state. However, over the past century, BTX have been isolated from crude oil and coal tar by several processes, primarily distillation, which requires specialized process engineering for this purpose. BTX are also produced during petroleum refining and can be found in a number of petroleum products and are principal constituents of gasoline. When isolated from coal tar, BTX are called light oil.

The data were examined for indications that *gasoline* was present. However gasoline was not indicated based on the relative amounts of aromatic and aliphatic compounds in the gasoline range. Specifically, gasolines contain about 40 to 60 percent aromatic compounds with the remaining hydrocarbons being straight, branched, and naphthenic (4). These relative abundances are clearly visible in a GC/FID fingerprint or GC/MS ion chromatogram of the types included in this report. However, very little saturated hydrocarbon content was present in any of the samples. Further, the saturated hydrocarbons that were present could be attributed to the middle distillate petrogenic material that was present in significant amounts in samples T10-1, T10-2, T10-3, B-11-12-13, B-12-11-12, and B-13-12-13.

Chemical fingerprints of samples B-23-6-8 and B-23-10-12 showed the presence of a gasoline-range product, although the lack of tri- and tetra-alkyl benzenes indicates that it is *not* gasoline. The product consists almost exclusively of benzene and toluene, with lesser amounts of xylenes, ethylbenzene and a very small quantity of styrene. The lack of saturated hydrocarbons in the gasoline range suggests some type of light oil distillate, because light oils are low in saturated components. However, other products, such as some aromatic solvents consist of nearly all BTX. For example, a sample of Gumout Choke and Carburetor Cleaner consisted of nearly all ethylbenzene and xylenes (5). The fact that there are non-detect quantities of other compounds typically associated with MGP-type waste may indicate that this is a custom-blended petroleum

solvent, perhaps used for stripping or cleaning and not directly associated with MGP operations. However, a good match to a commercial solvent could not be found among the reference chromatograms available to GTI, but may exist for one of the many products sold. It is not likely that the material is a gas pipeline condensate, due to its highly pure nature.

Finally, some data has been reported that suggests that when gasoline in soil is severely degraded, the relative amount of aromatic hydrocarbons can increase to over 90 % (4). Presumably, this occurs because the saturated hydrocarbons degrade preferentially over aromatic hydrocarbons. However, the naphthalene concentrations indicate that weathering *has not been* severe for most of the site samples. Therefore, co-mingling of MGP wastes with severely weathered gasoline could be a possible explanation, but this could not be confirmed with the available data.

Because gasoline was not indicated in these initial analyses, supplemental analyses for total paraffins, isoparaffins, aromatics, naphthenics, and olefins (PIANO) would not provide additional discriminating information and was not conducted.

REFERENCES

1. "Chemical Source Attribution at Former MGP Sites," EPRI Report 1000728, December, 2000.
2. "Polycyclic Aromatic Hydrocarbons (PAHs) In Surface Soil," EPRI Report in print, December, 2000.
3. "Chemical and Physical Characteristics of Tar Samples from Selected Manufactured Gas Plant (MGP) Sites," EPRI Report TR-102184, May, 1993.
4. "Patterns of Chemical Changes during Environmental Alteration of Hydrocarbon Fuels," Kaplan, I.R., Galperin, Y., Alimi, H., Lee, R., and Lu, S., *Groundwater Monitoring Review*, Fall, 1996.
5. GC/MS Guide to Ignitable Liquids. CRC Press, Boca Raton, Florida, 1998.

Table 1
Source and Weathering Ratios

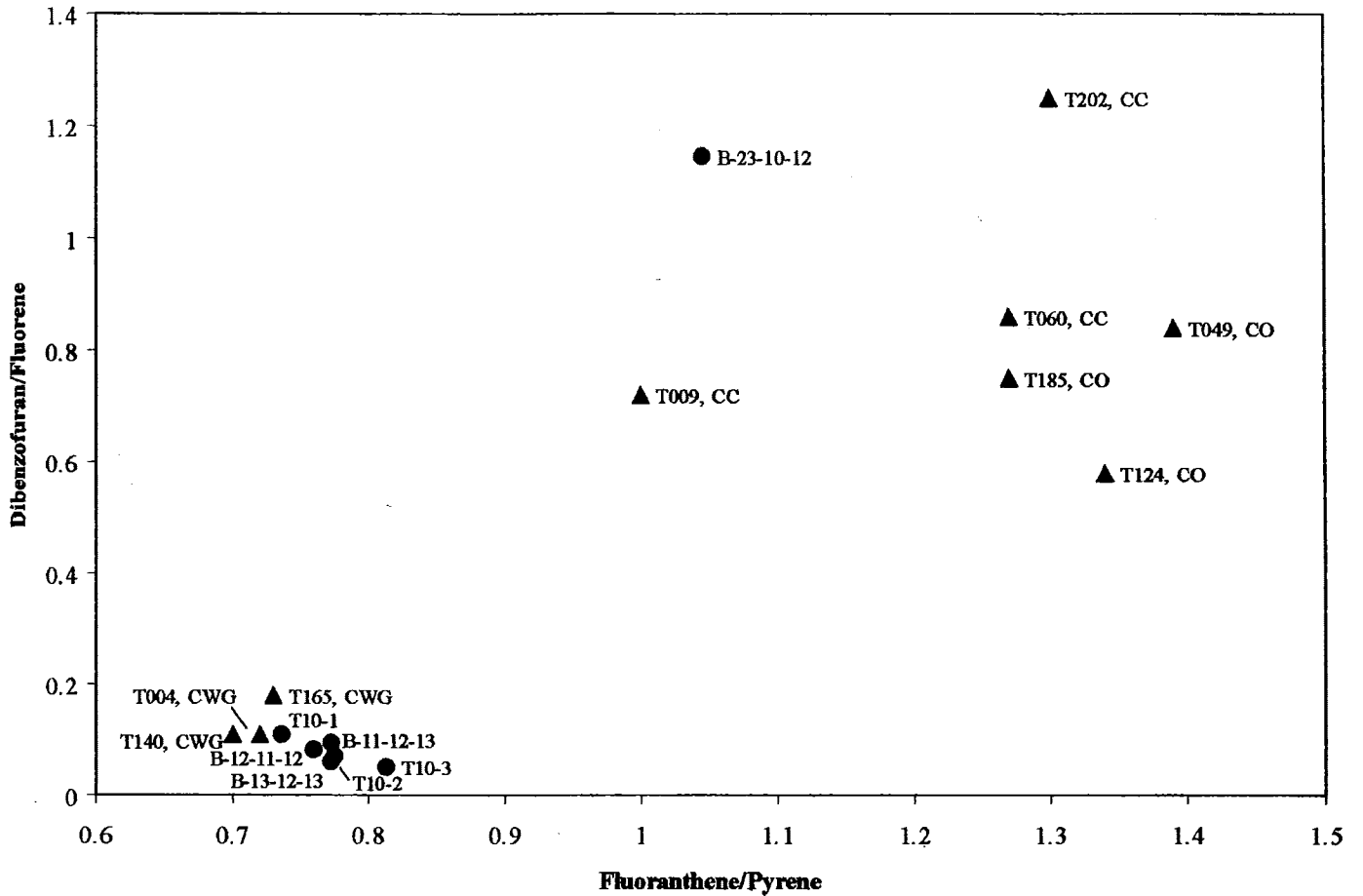
Sample	Fl/Py	D/F	C17/Pris	C18/Phy	Pris/Phy	C3D/C3PA	C2D/C2PA
T10-1	0.74	0.11	1.27	1.12	1.30	0.62	0.21
T10-2	0.77	0.07	1.49	1.66	1.57	0.67	0.25
T10-3	0.81	0.05	1.14	0.86	1.11	0.35	0.21
B-11-12-13	0.77	0.09	2.21	0.25	0.20	0.62	0.23
B-12-11-12	0.76	0.08	0.85	0.70	1.46	0.61	0.22
B-13-12-13	0.77	0.06	2.81	2.70	1.44	0.63	0.23
B-23-6-8	ND	ND	ND	ND	ND	ND	ND
B-23-10-12	1.05	1.15	ND	ND	ND	ND	ND

Ratios:

Fl/Py fluoranthene/pyrene
D/F dibenzofuran/fluorene
C17/Pris septadecane/pristane
C18/Phy octadecane/phytane
Pris/Phy pristane/phytane
C3D/C3PA trialkyldibenzothiophenes/trialkylphenanthrenes/anthracenes
C2D/C2PA dialkyldibenzothiophenes/dialkylphenanthrenes/anthracenes

Figure 1

Selected Source Ratios



TXXX Tar Sample from META's in house source library
CC Coal Carbonization Tar
CO Coke Oven Tar
CWG Carburetted Water Gas Tar
● Site Sample

Appendix A

Chains of Custody

META ENVIRONMENTAL SAMPLE RECEIPT

Lab ID	Field ID	Matrix	Analysis	Date Sampled	Date Received	Client/Project	Container/Storage
GT020924-01	T10-1	Soil		9/18/2002	9/24/2002		4oz. Jar
GT020924-02	T10-2	Soil		9/18/2002	9/24/2002		4oz. Jar
GT020924-03a,b	B-11-12-13	Soil		9/19/2002	9/24/2002		4oz. Jar
GT020924-04a,b	B-12-11-12	Soil		9/19/2002	9/24/2002		4oz. Jar
GT020924-05a,b	B13-12-13	Soil		9/19/2002	9/24/2002		4oz. Jar
GT020924-06a,b	B23-6-8	Soil		9/19/2002	9/24/2002		4oz. Jar
GT020924-07a,b	B-23-10-12	Soil		9/19/2002	9/24/2002		4oz. Jar

Dustin / 9/24/02

Chain of
Custody Record

GTI

SEVERN
TRENT
SERVICES Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: ENSR
Project Manager: Bill Gregg
Date: 9/18/02
Chain of Custody Number: 150716

Address: 4500 Park Glen Road, Suite 210
Telephone Number (Area Code)/Fax Number: 952-924-0117
Lab Number: _____
Page: 1 of 1

City: St. Louis Park, State: MN, Zip Code: 55416
Site Contact: _____ Lab Contact: Diane Sabier

Project Name and Location (State): Superior MGP, Wisconsin
Carrier/Waybill Number: _____

Analysis (Attach list if more space is needed)

Special Instructions/Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives							PIANO	Fingerprint								
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc2	NaOH										
T10-1	9/18/02	1130				X	1									X	X				broken jar	GT020924-01	
T10-2		1230																					-02
T10-3		1530																					
B-8-6-8		1715																					
B-11-12-13	9/19/02	800				X	2									X	X						-03a,b
B-12-11-12		850																					-04a,b
B-13-12-13		945																					-05a,b
B-23-6-8		1615																					-06a,b
B-23-10-12		1620																					-07a,b

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

QC Requirements (Specify)

1. Relinquished By: Chris Beckm/ENSR Date: 9/19/02 Time: 1730	1. Received By: [Signature] Date: 9/18/02 Time: _____
2. Relinquished By: [Signature]/GTI Date: 9/23/02 Time: _____	2. Received By: [Signature] Date: 9/24/02 Time: 9:30am
3. Relinquished By: _____ Date: _____ Time: _____	3. Received By: _____ Date: _____ Time: _____

rev'd @ 65°C

Comments

META ENVIRONMENTAL SAMPLE RECEIPT

Lab ID	Field ID	Matrix	Analysis		Date Sampled	Date Received	Client/Project	Container/Storage
GT021121-01	ENSRWLP MGP T10-3	Soil	3540	4007	4008	9/18/2002	11/21/2002	G13010-60 4oz. Jar

Disney
11/21/02

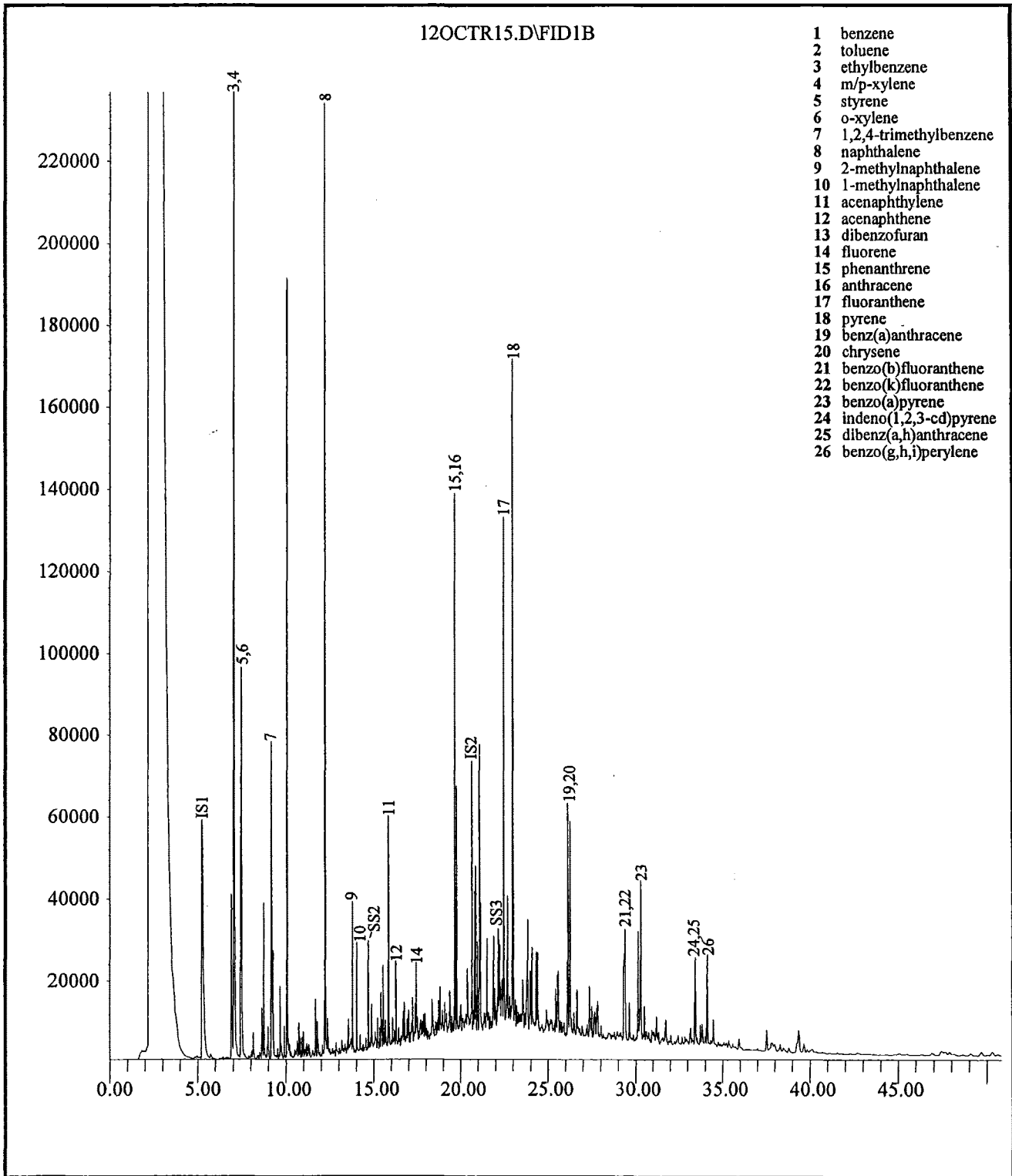
NO.

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CON- TAINERS	DESIRED ANALYSIS			REMARKS			
SAMPLERS: (Signature)					<i>Fingerprinting</i>						
SAMPLE NO.	DATE	TIME	SAMPLE LOCATION								
	9/18/02	15:30	FNSR SWLPMGP T10-3	1	X	GT021121-01	From previous sample set	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">Rush</div> Superior 613010 <i>DM</i>			
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
<i>Mark Savill</i>		11/20/02 0800									
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by:		Date / Time		<div style="text-align: right; font-size: 2em; font-weight: bold; margin-bottom: 10px;">IGT</div> INSTITUTE OF GAS TECHNOLOGY 1700 S. Mount Prospect Rd. Des Plaines, IL 60018-1804			
				(Signature) <i>D. Berhann</i>		11/21/02 9:15am					
REMARKS: recd @ 4.5°C											

Appendix B
GC/FID Fingerprints

GC/FID Fingerprint

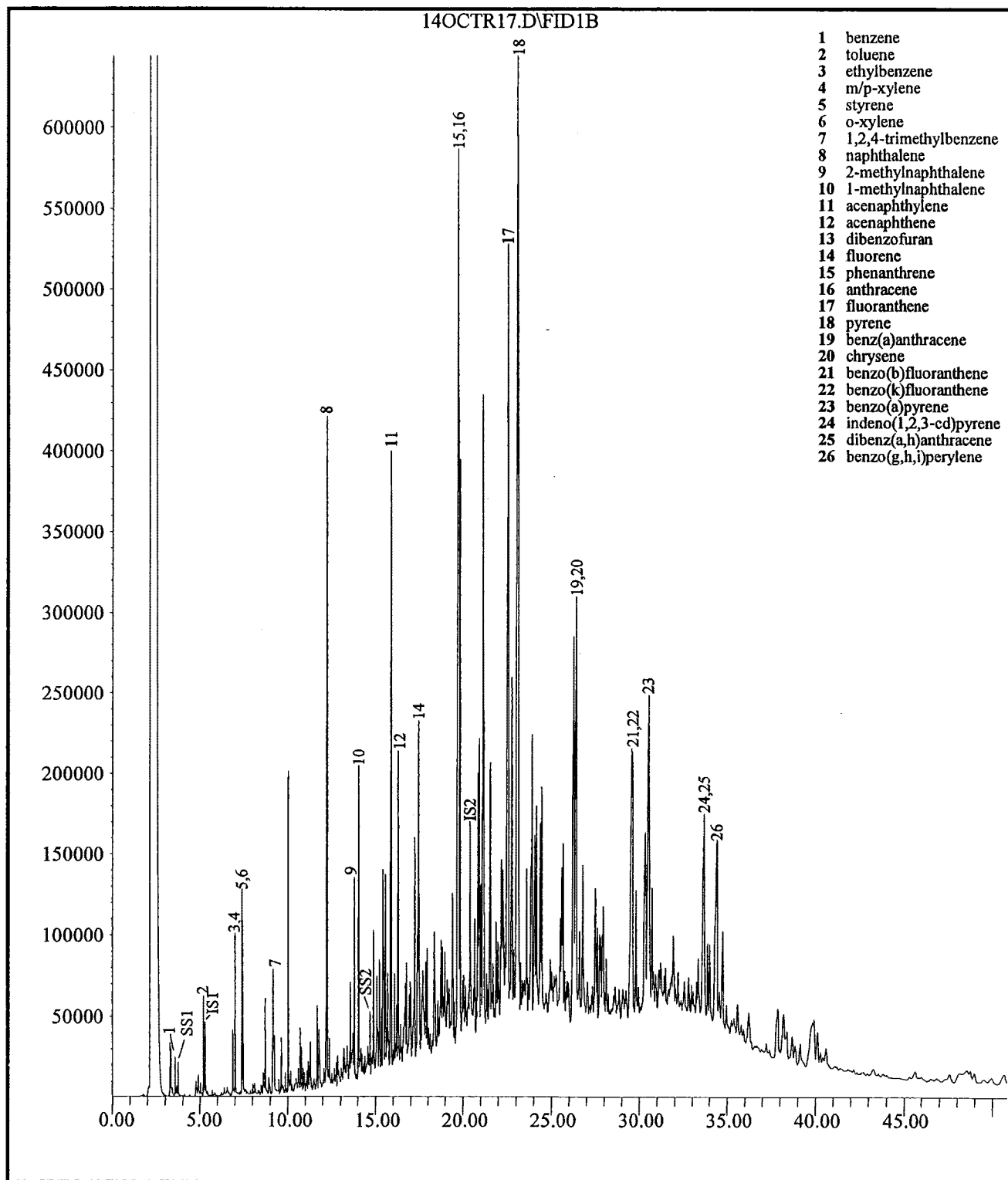


- 1 benzene
- 2 toluene
- 3 ethylbenzene
- 4 m/p-xylene
- 5 styrene
- 6 o-xylene
- 7 1,2,4-trimethylbenzene
- 8 naphthalene
- 9 2-methylnaphthalene
- 10 1-methylnaphthalene
- 11 acenaphthylene
- 12 acenaphthene
- 13 dibenzofuran
- 14 fluorene
- 15 phenanthrene
- 16 anthracene
- 17 fluoranthene
- 18 pyrene
- 19 benz(a)anthracene
- 20 chrysene
- 21 benzo(b)fluoranthene
- 22 benzo(k)fluoranthene
- 23 benzo(a)pyrene
- 24 indeno(1,2,3-cd)pyrene
- 25 dibenz(a,h)anthracene
- 26 benzo(g,h,i)perylene

IS1 - 2,4-difluorotoluene
 IS2 - o-terphenyl
 SS1 - fluorobenzene
 SS2 - 2-fluorobiphenyl
 SS3 - 5 α -androstane

Field ID: **T10-1**
 Laboratory ID: GT020924-01
 Method: MET4007D

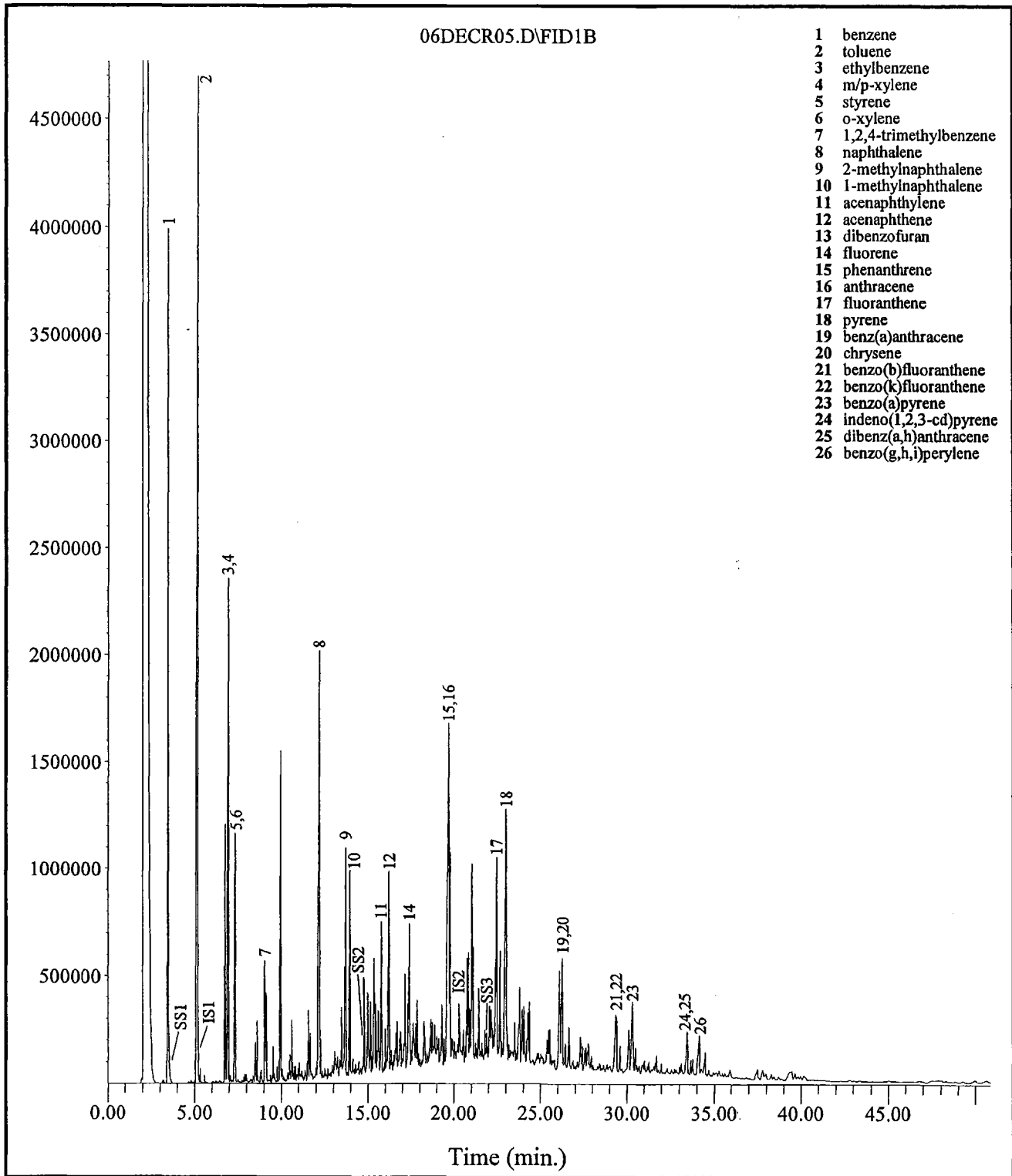
GC/FID Fingerprint



IS1 - 2,4-difluorotoluene
 IS2 - o-terphenyl
 SS1 - fluorobenzene
 SS2 - 2-fluorobiphenyl
 SS3 - 5 α -androstane

Field ID: T10-2
 Laboratory ID: GT020924-02
 Method: MET4007D

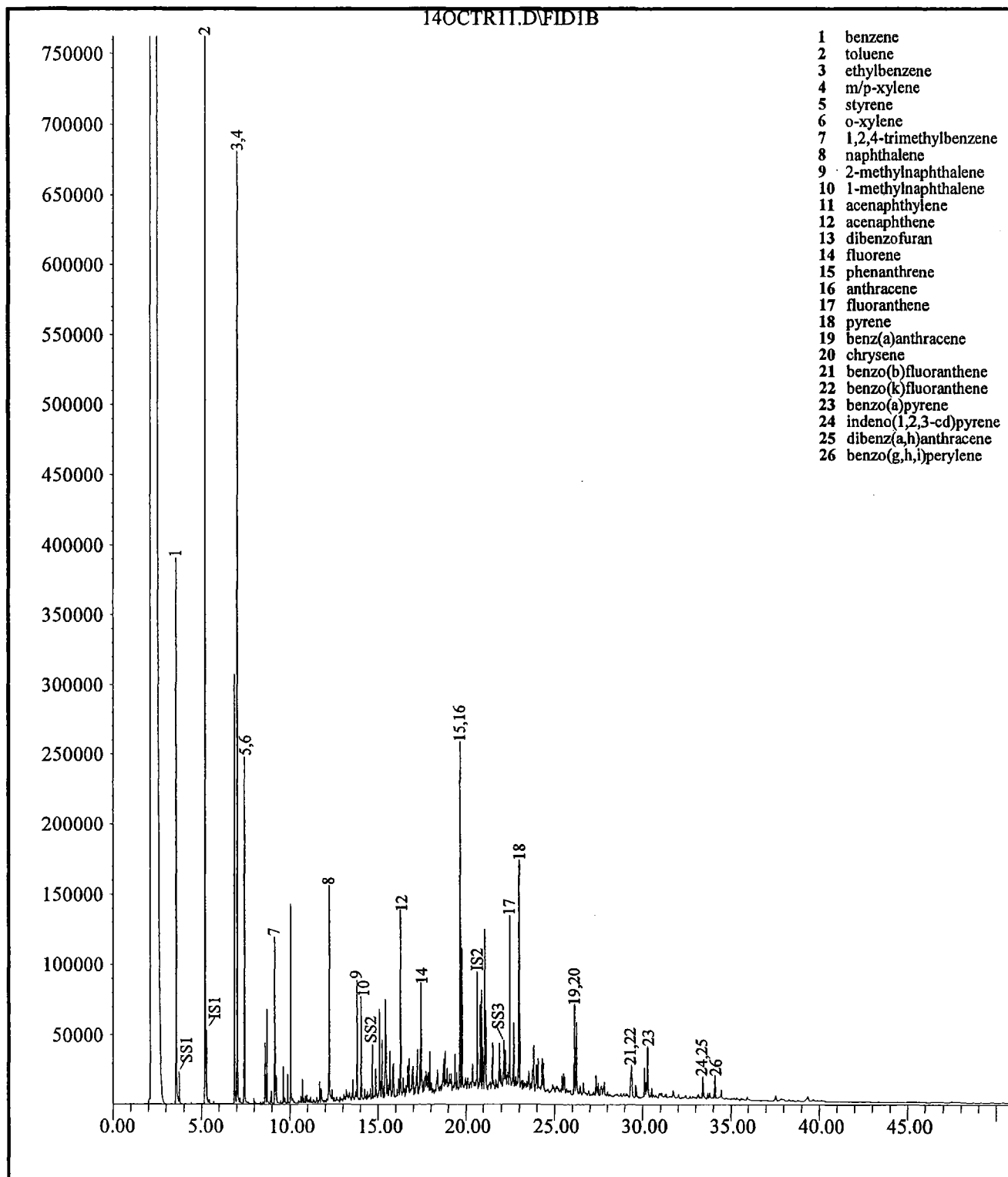
GC/FID Fingerprint



IS1 - 2,4-difluorotoluene
 IS2 - o-terphenyl
 SS1 - fluorobenzene
 SS2 - 2-fluorobiphenyl
 SS3 - 5 α -androstanone
 SS4 - benzo(a)pyrene-d12

Field ID: T10-3
 Laboratory ID: GT021121-01
 Method: MET4007

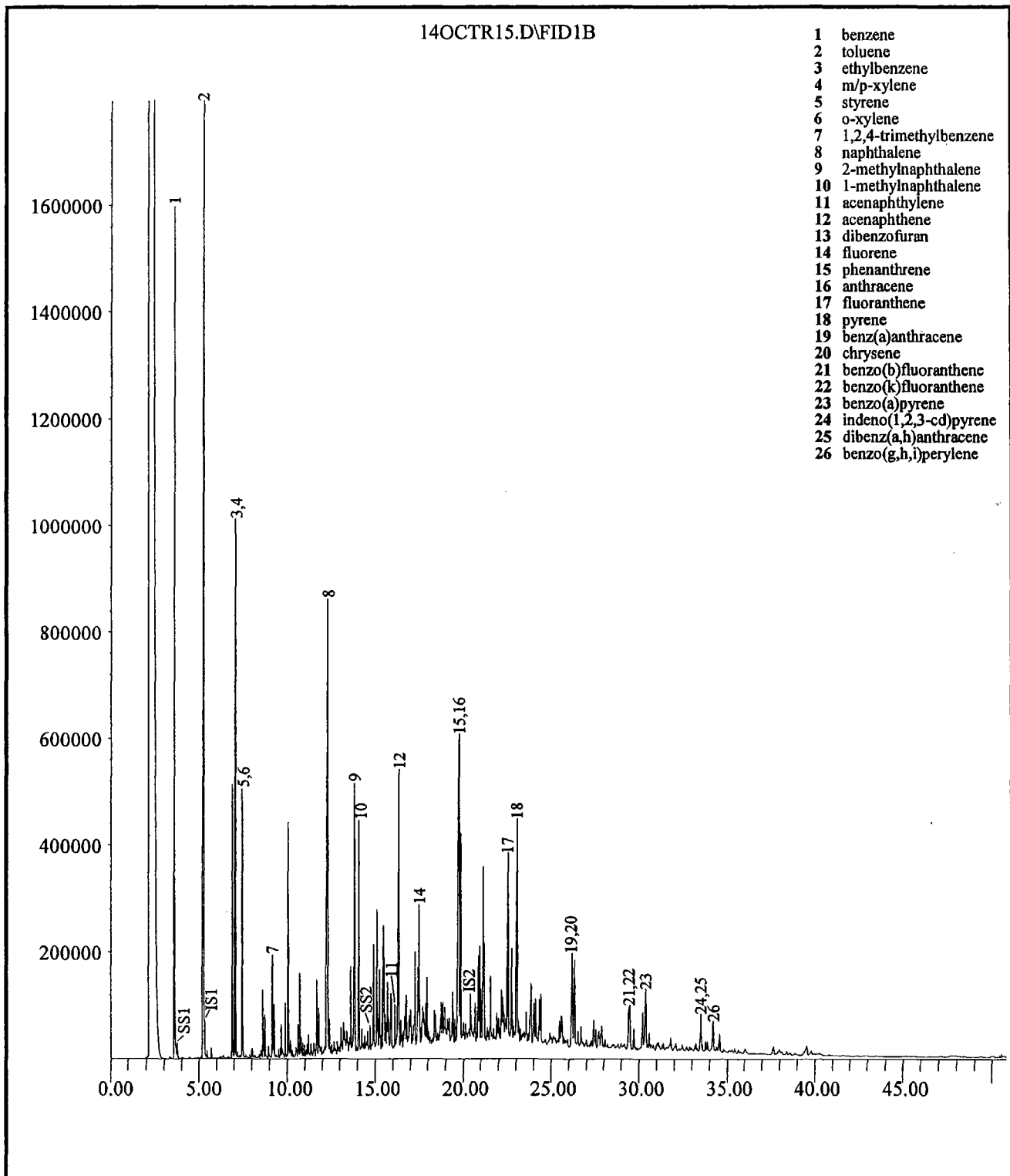
GC/FID Fingerprint



IS1 - 2,4-difluorotoluene
IS2 - o-terphenyl
SS1 - fluorobenzene
SS2 - 2-fluorobiphenyl
SS3 - 5 α -androstane

Field ID: **B-11-12-13**
 Laboratory ID: **GT020924-03**
 Method: **MET4007D**

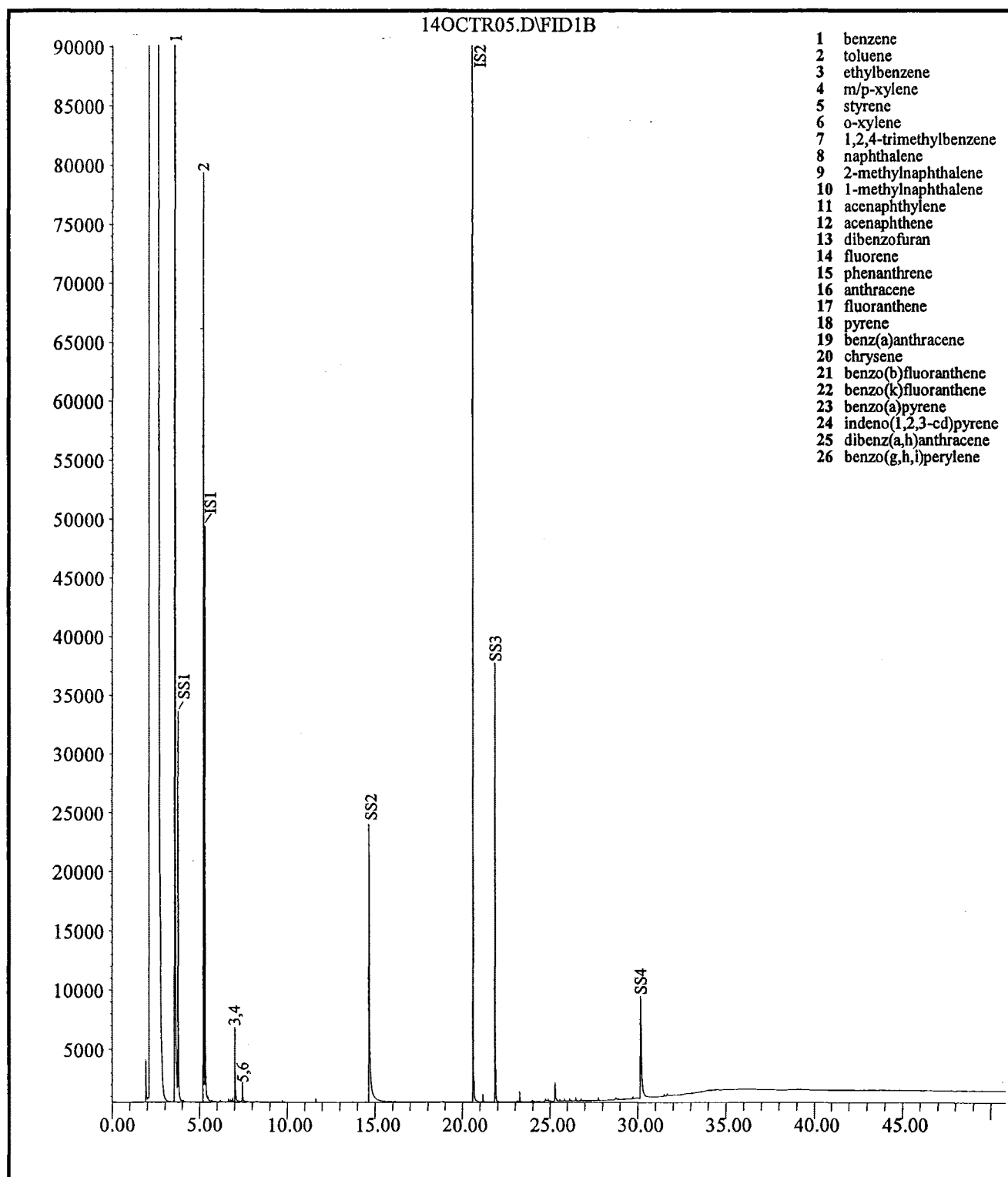
GC/FID Fingerprint



IS1 - 2,4-difluorotoluene
IS2 - o-terphenyl
SS1 - fluorobenzene
SS2 - 2-fluorobiphenyl
SS3 - 5 α -androstane

Field ID: **B-12-11-12**
 Laboratory ID: **GT020924-04**
 Method: **MET4007D**

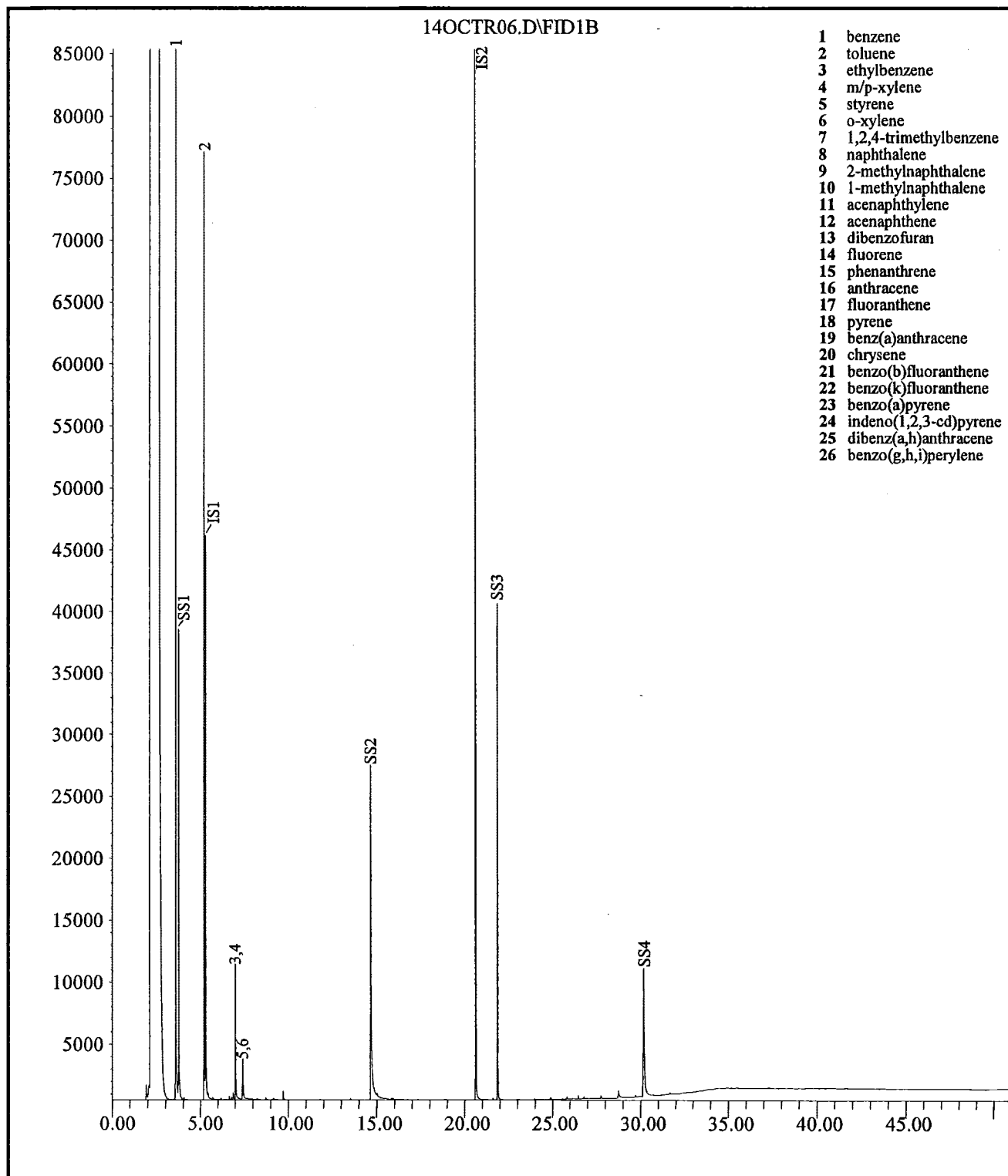
GC/FID Fingerprint



IS1 - 2,4-difluorotoluene
IS2 - o-terphenyl
SS1 - fluorobenzene
SS2 - 2-fluorobiphenyl
SS3 - 5 α -androstane
SS4 - benzo(a)pyrene-d12

Field ID: **B23-6-8**
Laboratory ID: GT020924-06
Method: MET4007D

GC/FID Fingerprint



IS1 - 2,4-difluorotoluene
IS2 - o-terphenyl
SS1 - fluorobenzene
SS2 - 2-fluorobiphenyl
SS3 - 5 α -androstane
SS4 - benzo(a)pyrene-d12

Field ID: **B-23-10-12**
 Laboratory ID: **GT020924-07**
 Method: **MET4007D**

Appendix C
Chemical Concentrations

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID:	T10-1	Preparation Method:	EPA 3570
Client:	GTI	Cleanup Method(s):	
Project:	Superior	Analysis Method:	GC/MS (EPA 8270 Mod.)
Lab ID:	GT020924-01 1:10	Matrix:	Soil
File ID:	14OCT18.D	Preservation:	None
Date Sampled:	9/18/2002	Decanted:	No
Date Received:	9/24/2002	Sample Size:	2.212 g
Date Prepared:	10/11/2002	%Solid:	74%
Date Cleanup:		Extract Volume:	2 mL
Date Analyzed:	15 Oct 2002 7:15 am	Prep DF:	10
Instrument:	GC/MS Ins	Analysis DF:	1
Operator:	ECC	Injection Volume:	0.001 mL
		Batch QC:	GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
PAH COMPOUNDS:					
Benzene	32.4		1.22	0.61	
Toluene	217	B	1.22	0.61	
Ethylbenzene	82.5		1.22	0.61	
m/p-Xylenes	422		1.22	0.61	
Styrene	105		1.22	0.61	
o-Xylene	135		1.22	0.61	
1,2,4-Trimethylbenzene	110		1.22	0.61	
Naphthalene	339		1.22	0.61	
2-Methylnaphthalene	56.4		1.22	0.61	
1-Methylnaphthalene	37.7		1.22	0.61	
Acenaphthylene	61.9		1.22	0.61	
Acenaphthene	30.2		1.22	0.61	
Dibenzofuran	3.84		1.22	0.61	
Fluorene	35.0		1.22	0.61	
Phenanthrene	209		1.22	0.61	
Anthracene	68.9		1.22	0.61	
Fluoranthene	131		1.22	0.61	
Pyrene	178		1.22	0.61	
Benzo[a]anthracene	41.6		1.22	0.61	
Chrysene	46.1		1.22	0.61	
Benzo[b]fluoranthene	22.7		1.22	0.61	
Benzo[k]fluoranthene	22.7		1.22	0.61	
Benzo[e]pyrene	23.5		1.22	0.61	
Benzo[a]pyrene	26.5		1.22	0.61	
Perylene	3.89		1.22	0.61	
Indeno[1,2,3-cd]pyrene	16.9		1.22	0.61	
Dibenz[a,h]anthracene	4.73		1.22	0.61	
Benzo[g,h,i]perylene	38.7		1.22	0.61	
ALKYLATED PAHs:					
C0 - Benzene	32.4		1.22	0.61	
C1 - Benzene	260		1.22	0.61	
C2 - Benzene	769		1.22	0.61	
C3 - Benzene	236		1.22	0.61	
C4 - Benzene	67.1		1.22	0.61	
C5 - Benzene	12.7		1.22	0.61	
C0 - Naphthalene	339		1.22	0.61	
C1 - Naphthalene	53.9		1.22	0.61	
C2 - Naphthalene	32.2		1.22	0.61	
C3 - Naphthalene	19.4		1.22	0.61	
C4 - Naphthalene	12.7		1.22	0.61	

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID:	T10-1	Preparation Method:	EPA 3570
Client:	GTI	Cleanup Method(s):	
Project:	Superior	Analysis Method:	GC/MS (EPA 8270 Mod.)
Lab ID:	GT020924-01 1:10	Matrix:	Soil
File ID:	14OCT18.D	Preservation:	None
Date Sampled:	9/18/2002	Decanted:	No
Date Received:	9/24/2002	Sample Size:	2.212 g
Date Prepared:	10/11/2002	%Solid:	74%
Date Cleanup:		Extract Volume:	2 mL
Date Analyzed:	15 Oct 2002 7:15 am	Prep DF:	10
Instrument:	GC/MS Ins	Analysis DF:	1
Operator:	ECC	Injection Volume:	0.001 mL
		Batch QC:	GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
C0 - Fluorene	35.0		1.22	0.61	
C1 - Fluorene	34.5		1.22	0.61	
C2 - Fluorene	12.8		1.22	0.61	
C3 - Fluorene	6.48		1.22	0.61	
C0 - Phenanthrene/Anthracene	290		1.22	0.61	
C1 - Phenanthrene/Anthracene	120		1.22	0.61	
C2 - Phenanthrene/Anthracene	44.2		1.22	0.61	
C3 - Phenanthrene/Anthracene	8.30		1.22	0.61	
C4 - Phenanthrene/Anthracene	3.29		1.22	0.61	
C0 - Dibenzothiophene	49.3		1.22	0.61	
C1 - Dibenzothiophene	16.3		1.22	0.61	
C2 - Dibenzothiophene	9.49		1.22	0.61	
C3 - Dibenzothiophene	5.16		1.22	0.61	
C0 - Fluoranthene/Pyrene	346		1.22	0.61	
C1 - Fluoranthene/Pyrene	68.0		1.22	0.61	
C2 - Fluoranthene/Pyrene	14.7		1.22	0.61	
C3 - Fluoranthene/Pyrene	4.20		1.22	0.61	
C0 - Benz(a)anthracene/Chrysene	98.0		1.22	0.61	
C1 - Benz(a)anthracene/Chrysene	20.3		1.22	0.61	
C2 - Benz(a)anthracene/Chrysene	5.30		1.22	0.61	
C3 - Benz(a)anthracene/Chrysene	1.32		1.22	0.61	
C4 - Benz(a)anthracene/Chrysene	0.89	J	1.22	0.61	

EXTRACTION SURROGATE COMPOUNDS:	%R	Min	Max
Fluorobenzene	57%	50%	150%
2-Fluorobiphenyl	83%	50%	120%
5a-Androstane	71%	50%	120%
Benzo(a)pyrene-d12	59%	50%	120%

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: T10-2

Client: GTI
Project: Superior

Lab ID: GT020924-02 1:10
File ID: 14OCT19.D

Date Sampled: 9/18/2002
Date Received: 9/24/2002
Date Prepared: 10/11/2002
Date Cleanup: 10/11/2002
Date Analyzed: 15 Oct 2002 8:26 am
Instrument: GC/MS Ins
Operator: ECC

Preparation Method: EPA 3570
Cleanup Method(s):

Analysis Method: GC/MS (EPA 8270 Mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 2.183 g
%Solid: 37%
Extract Volume: 2 mL
Prep DF: 10
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
PAH COMPOUNDS:					
Benzene	42.3		2.51	1.26	
Toluene	116	B	2.51	1.26	
Ethylbenzene	78.8		2.51	1.26	
m/p-Xylenes	185		2.51	1.26	
Styrene	241		2.51	1.26	
o-Xylene	156		2.51	1.26	
1,2,4-Trimethylbenzene	138		2.51	1.26	
Naphthalene	1,260		2.51	1.26	
2-Methylnaphthalene	360		2.51	1.26	
1-Methylnaphthalene	554		2.51	1.26	
Acenaphthylene	1,160		2.51	1.26	
Acenaphthene	590		2.51	1.26	
Dibenzofuran	56.2		2.51	1.26	
Fluorene	793		2.51	1.26	
Phenanthrene	2,670		2.51	1.26	
Anthracene	803		2.51	1.26	
Fluoranthene	1,410		2.51	1.26	
Pyrene	1,820		2.51	1.26	
Benz[a]anthracene	533		2.51	1.26	
Chrysene	518		2.51	1.26	
Benzo[b]fluoranthene	305		2.51	1.26	
Benzo[k]fluoranthene	453		2.51	1.26	
Benzo(e)pyrene	447		2.51	1.26	
Benzo[a]pyrene	637		2.51	1.26	
Perylene	112		2.51	1.26	
Indeno[1,2,3-cd]pyrene	511		2.51	1.26	
Dibenz[a,h]anthracene	147		2.51	1.26	
Benzo[g,h,i]perylene	951		2.51	1.26	

ALKYLATED PAHs:

C0 - Benzene	42.3		2.51	1.26
C1 - Benzene	140		2.51	1.26
C2 - Benzene	505		2.51	1.26
C3 - Benzene	430		2.51	1.26
C4 - Benzene	244		2.51	1.26
C5 - Benzene	82.9		2.51	1.26
C0 - Naphthalene	1,260		2.51	1.26
C1 - Naphthalene	520		2.51	1.26
C2 - Naphthalene	611		2.51	1.26
C3- Naphthalene	229		2.51	1.26
C4- Naphthalene	107		2.51	1.26

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID:	T10-2	Preparation Method:	EPA 3570
Client:	GTI	Cleanup Method(s):	
Project:	Superior	Analysis Method:	GC/MS (EPA 8270 Mod.)
Lab ID:	GT020924-02 1:10	Matrix:	Soil
File ID:	14OCT19.D	Preservation:	None
Date Sampled:	9/18/2002	Decanted:	No
Date Received:	9/24/2002	Sample Size:	2.183 g
Date Prepared:	10/11/2002	%Solid:	37%
Date Cleanup:		Extract Volume:	2 mL
Date Analyzed:	15 Oct 2002 8:26 am	Prep DF:	10
Instrument:	GC/MS Ins	Analysis DF:	1
Operator:	ECC	Injection Volume:	0.001 mL
		Batch QC:	GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
C0 - Fluorene	793		2.51	1.26	
C1 - Fluorene	412		2.51	1.26	
C2 - Fluorene	126		2.51	1.26	
C3 - Fluorene	54.1		2.51	1.26	
C0 - Phenanthrene/Anthracene	3,650		2.51	1.26	
C1 - Phenanthrene/Anthracene	1,110		2.51	1.26	
C2 - Phenanthrene/Anthracene	367		2.51	1.26	
C3 - Phenanthrene/Anthracene	72.6		2.51	1.26	
C4 - Phenanthrene/Anthracene	29.5		2.51	1.26	
C0 - Dibenzothiophene	215		2.51	1.26	
C1 - Dibenzothiophene	146		2.51	1.26	
C2 - Dibenzothiophene	90.7		2.51	1.26	
C3 - Dibenzothiophene	49.0		2.51	1.26	
C0 - Fluoranthene/Pyrene	3,820		2.51	1.26	
C1 - Fluoranthene/Pyrene	791		2.51	1.26	
C2 - Fluoranthene/Pyrene	188		2.51	1.26	
C3 - Fluoranthene/Pyrene	49.7		2.51	1.26	
C0 - Benz(a)anthracene/Chrysene	1,150		2.51	1.26	
C1 - Benz(a)anthracene/Chrysene	265		2.51	1.26	
C2 - Benz(a)anthracene/Chrysene	89.9		2.51	1.26	
C3 - Benz(a)anthracene/Chrysene	23.1		2.51	1.26	
C4 - Benz(a)anthracene/Chrysene	8.78		2.51	1.26	
EXTRACTION SURROGATE COMPOUNDS:					
	%R		Min	Max	
Fluorobenzene	63%		50%	150%	
2-Fluorobiphenyl	92%		50%	120%	
5a-Androstane	65%		50%	120%	
Benzo(a)pyrene-d12	84%		50%	120%	

Qualifiers:

B	Analyte detected in the blank
D	Analyte reported from a diluted extract
U	Undetected above the detection limit
J	Estimated value detected between the reporting and detection limits
E	Estimated value detected above calibration range
RL	Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL	Estimated detection limit is 50% of the RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID:	T10-3	Preparation Method:	EPA 3540
		Cleanup Method(s):	
Client:	GTI	Analysis Method:	GC/MS (EPA 8270 Mod.)
Project:	Superior	Matrix:	Soil
		Preservation:	None
Lab ID:	GT021121-01 1/10	Decanted:	No
File ID:	15DEC10.D		
Date Sampled:	9/18/2002	Sample Size:	10.369 g
Date Received:	11/21/2002	%Solid:	58%
Date Prepared:	11/21/2002	Extract Volume:	10 mL
Date Cleanup:		Prep DF:	10
Date Analyzed:	16 Dec 2002 12:10 am	Analysis DF:	1
Instrument:	GC4-MS_59	Injection Volume:	0.001 mL
Operator:	DRC	Batch QC:	IS021121-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
PAH COMPOUNDS:					
Benzene	5,610	D	1.66	0.83	
Toluene	8,840	D	1.66	0.83	
Ethylbenzene	1,290		1.66	0.83	
m/p-Xylenes	4,180	D	1.66	0.83	
Styrene	721		1.66	0.83	
o-Xylene	943		1.66	0.83	
1,2,4-Trimethylbenzene	473		1.66	0.83	
Naphthalene	4,070	D	1.66	0.83	
2-Methylnaphthalene	1,400		1.66	0.83	
1-Methylnaphthalene	1,050		1.66	0.83	
Acenaphthylene	806		1.66	0.83	
Acenaphthene	1,200		1.66	0.83	
Dibenzofuran	41.6		1.66	0.83	
Fluorene	815		1.66	0.83	
Phenanthrene	4,150	D	1.66	0.83	
Anthracene	961		1.66	0.83	
Fluoranthene	1,050		1.66	0.83	
Pyrene	1,290		1.66	0.83	
Benz[a]anthracene	691		1.66	0.83	
Chrysene	833		1.66	0.83	
Benzo[b]fluoranthene	537		1.66	0.83	
Benzo[k]fluoranthene	460		1.66	0.83	
Benzo(e)pyrene	562		1.66	0.83	
Benzo[a]pyrene	870		1.66	0.83	
Perylene	182		1.66	0.83	
Indeno[1,2,3-cd]pyrene	419		1.66	0.83	
Dibenz[a,h]anthracene	127		1.66	0.83	
Benzo[g,h,i]perylene	575		1.66	0.83	
ALKYLATED PAHs:					
C0 - Benzene	5,610	D	1.66	0.83	
C1 - Benzene	9,590	D	1.66	0.83	
C2 - Benzene	7,710	D	1.66	0.83	
C3 - Benzene	1,430		1.66	0.83	
C4 - Benzene	548		1.66	0.83	
C5 - Benzene	256		1.66	0.83	
C0 - Naphthalene	4,070	D	1.66	0.83	
C1 - Naphthalene	2,260		1.66	0.83	
C2 - Naphthalene	2,920		1.66	0.83	
C3 - Naphthalene	1,120		1.66	0.83	
C4 - Naphthalene	241		1.66	0.83	

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID:	T10-3	Preparation Method:	EPA 3540
Client:	GTI	Cleanup Method(s):	
Project:	Superior	Analysis Method:	GC/MS (EPA 8270 Mod.)
Lab ID:	GT021121-01 1/10	Matrix:	Soil
File ID:	15DEC10.D	Preservation:	None
Date Sampled:	9/18/2002	Decanted:	No
Date Received:	11/21/2002	Sample Size:	10.369 g
Date Prepared:	11/21/2002	%Solid:	58%
Date Cleanup:		Extract Volume:	10 mL
Date Analyzed:	16 Dec 2002 12:10 am	Prep DF:	10
Instrument:	GC4-MS_59	Analysis DF:	1
Operator:	DRC	Injection Volume:	0.001 mL
		Batch QC:	IS021121-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
C0 - Fluorene	815		1.66	0.83	
C1 - Fluorene	684		1.66	0.83	
C2 - Fluorene	169		1.66	0.83	
C3 - Fluorene	90.9		1.66	0.83	
C0 - Phenanthrene/Anthracene	5,820	D	1.66	0.83	
C1 - Phenanthrene/Anthracene	473		1.66	0.83	
C2 - Phenanthrene/Anthracene	374		1.66	0.83	
C3 - Phenanthrene/Anthracene	95.0		1.66	0.83	
C4 - Phenanthrene/Anthracene	27.2		1.66	0.83	
C0 - Dibenzothiophene	246		1.66	0.83	
C1 - Dibenzothiophene	139		1.66	0.83	
C2 - Dibenzothiophene	79.6		1.66	0.83	
C3 - Dibenzothiophene	33.2		1.66	0.83	
C0 - Fluoranthene/Pyrene	3,100		1.66	0.83	
C1 - Fluoranthene/Pyrene	1,320		1.66	0.83	
C2 - Fluoranthene/Pyrene	369		1.66	0.83	
C3 - Fluoranthene/Pyrene	152		1.66	0.83	
C0 - Benz(a)anthracene/Chrysene	1,540		1.66	0.83	
C1 - Benz(a)anthracene/Chrysene	669		1.66	0.83	
C2 - Benz(a)anthracene/Chrysene	278		1.66	0.83	
C3 - Benz(a)anthracene/Chrysene	78.6		1.66	0.83	
C4 - Benz(a)anthracene/Chrysene	28.2		1.66	0.83	
EXTRACTION SURROGATE COMPOUNDS:					
	%R		Min	Max	
Fluorobenzene	63%		50%	150%	
2-Fluorobiphenyl	138%		50%	120%	
5a-Androstane	148%		50%	120%	
Benzo(a)pyrene-d12	62%		50%	120%	

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID:	B11-12-13	Preparation Method:	EPA 3570
Client:	GTI	Cleanup Method(s):	
Project:	Superior	Analysis Method:	GC/MS (EPA 8270 Mod.)
Lab ID:	GT020924-03	Matrix:	Soil
File ID:	14OCT33.D	Preservation:	None
Date Sampled:	9/19/2002	Decanted:	No
Date Received:	9/24/2002	Sample Size:	1.547 g
Date Prepared:	10/11/2002	%Solid:	77%
Date Cleanup:		Extract Volume:	2 mL
Date Analyzed:	16 Oct 2002 1:06 am	Prep DF:	1
Instrument:	GC/MS Ins	Analysis DF:	1
Operator:	ECC	Injection Volume:	0.001 mL
		Batch QC:	GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
PAH COMPOUNDS:					
Benzene	568	D	0.17	0.08	
Toluene	1,380	D	0.17	0.08	
Ethylbenzene	531	D	0.17	0.08	
m/p-Xylenes	1,370	D	0.17	0.08	
Styrene	24.1		0.17	0.08	
o-Xylene	386	D	0.17	0.08	
1,2,4-Trimethylbenzene	219	D	0.17	0.08	
Naphthalene	303	D	0.17	0.08	
2-Methylnaphthalene	157		0.17	0.08	
1-Methylnaphthalene	127		0.17	0.08	
Acenaphthylene	27.2		0.17	0.08	
Acenaphthene	282	D	0.17	0.08	
Dibenzofuran	14.4		0.17	0.08	
Fluorene	152		0.17	0.08	
Phenanthrene	520	D	0.17	0.08	
Anthracene	118		0.17	0.08	
Fluoranthene	112		0.17	0.08	
Pyrene	145		0.17	0.08	
Benz[a]anthracene	42.7		0.17	0.08	
Chrysene	46.5		0.17	0.08	
Benzo[b]fluoranthene	17.6		0.17	0.08	
Benzo[k]fluoranthene	29.8		0.17	0.08	
Benzo[e]pyrene	27.9		0.17	0.08	
Benzo[a]pyrene	41.4		0.17	0.08	
Perylene	6.63		0.17	0.08	
Indeno[1,2,3-cd]pyrene	24.2		0.17	0.08	
Dibenz[a,h]anthracene	7.85		0.17	0.08	
Benzo[g,h,i]perylene	44.7		0.17	0.08	
ALKYLATED PAHs:					
C0 - Benzene	568	D	0.17	0.08	
C1 - Benzene	1,650	D	0.17	0.08	
C2 - Benzene	2,710	D	0.17	0.08	
C3 - Benzene	566	D	0.17	0.08	
C4 - Benzene	51.7		0.17	0.08	
C5 - Benzene	20.7		0.17	0.08	
C0 - Naphthalene	303	D	0.17	0.08	
C1 - Naphthalene	163		0.17	0.08	
C2 - Naphthalene	207		0.17	0.08	
C3 - Naphthalene	67.6		0.17	0.08	
C4 - Naphthalene	25.1		0.17	0.08	

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: B11-12-13

Preparation Method: EPA 3570

Cleanup Method(s):

Client: GTI
Project: Superior

Analysis Method: GC/MS (EPA 8270 Mod.)

Matrix: Soil

Preservation: None

Decanted: No

Lab ID: GT020924-03
File ID: 14OCT33.D

Sample Size: 1.547 g

%Solid: 77%

Extract Volume: 2 mL

Prep DF: 1

Analysis DF: 1

Injection Volume: 0.001 mL

Date Sampled: 9/19/2002
Date Received: 9/24/2002
Date Prepared: 10/11/2002
Date Cleanup:
Date Analyzed: 16 Oct 2002 1:06 am
Instrument: GC/MS Ins
Operator: ECC

Batch QC: GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
C0 - Fluorene	152		0.17	0.08	
C1 - Fluorene	95.5		0.17	0.08	
C2 - Fluorene	27.6		0.17	0.08	
C3 - Fluorene	8.22		0.17	0.08	
C0 - Phenanthrene/Anthracene	679	D	0.17	0.08	
C1 - Phenanthrene/Anthracene	191		0.17	0.08	
C2 - Phenanthrene/Anthracene	67.2		0.17	0.08	
C3 - Phenanthrene/Anthracene	13.0		0.17	0.08	
C4 - Phenanthrene/Anthracene	5.18		0.17	0.08	
C0 - Dibenzothiophene	34.6		0.17	0.08	
C1 - Dibenzothiophene	26.8		0.17	0.08	
C2 - Dibenzothiophene	15.4		0.17	0.08	
C3 - Dibenzothiophene	8.06		0.17	0.08	
C0 - Fluoranthene/Pyrene	314		0.17	0.08	
C1 - Fluoranthene/Pyrene	91.4		0.17	0.08	
C2 - Fluoranthene/Pyrene	23.6		0.17	0.08	
C3 - Fluoranthene/Pyrene	6.78		0.17	0.08	
C0 - Benz(a)anthracene/Chrysene	99.3		0.17	0.08	
C1 - Benz(a)anthracene/Chrysene	31.5		0.17	0.08	
C2 - Benz(a)anthracene/Chrysene	11.8		0.17	0.08	
C3 - Benz(a)anthracene/Chrysene	2.82		0.17	0.08	
C4 - Benz(a)anthracene/Chrysene	0.72		0.17	0.08	

EXTRACTION SURROGATE COMPOUNDS:

	%R	Min	Max
Fluorobenzene	75%	50%	150%
2-Fluorobiphenyl	102%	50%	120%
5 α -Androstane	72%	50%	120%
Benzo(a)pyrene-d12	120%	50%	120%

Qualifiers:

- B Analyte detected in the blank
- D Analyte reported from a diluted extract
- U Undetected above the detection limit
- J Estimated value detected between the reporting and detection limits
- E Estimated value detected above calibration range
- RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
- EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: B12-11-12

Preparation Method: EPA 3570

Cleanup Method(s):

Client: GTI
Project: Superior

Analysis Method: GC/MS (EPA 8270 Mod.)

Matrix: Soil
Preservation: None
Decanted: No

Lab ID: GT020924-04 1:10
File ID: 14OCT21.D

Date Sampled: 9/19/2002
Date Received: 9/24/2002
Date Prepared: 10/11/2002
Date Cleanup:
Date Analyzed: 15 Oct 2002 10:49 am
Instrument: GC/MS Ins
Operator: ECC

Sample Size: 1.26 g
%Solid: 76%
Extract Volume: 2 mL
Prep DF: 10
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
PAH COMPOUNDS:					
Benzene	3,050	E	2.08	1.04	
Toluene	4,330	E	2.08	1.04	
Ethylbenzene	1,250		2.08	1.04	
m/p-Xylenes	2,600	E	2.08	1.04	
Styrene	85.8		2.08	1.04	
o-Xylene	916		2.08	1.04	
1,2,4-Trimethylbenzene	401		2.08	1.04	
Naphthalene	3,230	E	2.08	1.04	
2-Methylnaphthalene	2,070		2.08	1.04	
1-Methylnaphthalene	1,410		2.08	1.04	
Acenaphthylene	157		2.08	1.04	
Acenaphthene	2,260	E	2.08	1.04	
Dibenzofuran	80.9		2.08	1.04	
Fluorene	982		2.08	1.04	
Phenanthrene	2,480	E	2.08	1.04	
Anthracene	862		2.08	1.04	
Fluoranthene	695		2.08	1.04	
Pyrene	915		2.08	1.04	
Benz[a]anthracene	223		2.08	1.04	
Chrysene	220		2.08	1.04	
Benzo[b]fluoranthene	132		2.08	1.04	
Benzo[k]fluoranthene	126		2.08	1.04	
Benzo(e)pyrene	137		2.08	1.04	
Benzo[a]pyrene	214		2.08	1.04	
Perylene	31.4		2.08	1.04	
Indeno[1,2,3-cd]pyrene	126		2.08	1.04	
Dibenz[a,h]anthracene	35.9		2.08	1.04	
Benzo[g,h,i]perylene	240		2.08	1.04	
ALKYLATED PAHS:					
C0 - Benzene	3,050	E	2.08	1.04	
C1 - Benzene	5,190		2.08	1.04	
C2 - Benzene	5,670		2.08	1.04	
C3 - Benzene	1,260		2.08	1.04	
C4 - Benzene	807		2.08	1.04	
C5 - Benzene	159		2.08	1.04	
C0 - Naphthalene	3,230	E	2.08	1.04	
C1 - Naphthalene	1,990		2.08	1.04	
C2 - Naphthalene	1,210		2.08	1.04	
C3 - Naphthalene	334		2.08	1.04	
C4 - Naphthalene	112		2.08	1.04	

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: B12-11-12

Preparation Method: EPA 3570

Cleanup Method(s):

Client: GTI
Project: Superior

Analysis Method: GC/MS (EPA 8270 Mod.)

Matrix: Soil
Preservation: None
Decanted: No

Lab ID: GT020924-04 1:10
File ID: 14OCT21.D

Sample Size: 1.26 g
%Solid: 76%
Extract Volume: 2 mL
Prep DF: 10
Analysis DF: 1
Injection Volume: 0.001 mL

Date Sampled: 9/19/2002
Date Received: 9/24/2002
Date Prepared: 10/11/2002
Date Cleanup: 15 Oct 2002 10:49 am
Date Analyzed: 15 Oct 2002 10:49 am
Instrument: GC/MS Ins
Operator: ECC

Batch QC: GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
C0 - Fluorene	982		2.08	1.04	
C1 - Fluorene	524		2.08	1.04	
C2 - Fluorene	112		2.08	1.04	
C3 - Fluorene	30.1		2.08	1.04	
C0 - Phenanthrene/Anthracene	3,460	E	2.08	1.04	
C1 - Phenanthrene/Anthracene	911		2.08	1.04	
C2 - Phenanthrene/Anthracene	267		2.08	1.04	
C3 - Phenanthrene/Anthracene	47.3		2.08	1.04	
C4 - Phenanthrene/Anthracene	14.3		2.08	1.04	
C0 - Dibenzothiophene	200		2.08	1.04	
C1 - Dibenzothiophene	122		2.08	1.04	
C2 - Dibenzothiophene	58.2		2.08	1.04	
C3 - Dibenzothiophene	29.0		2.08	1.04	
C0 - Fluoranthene/Pyrene	1,950		2.08	1.04	
C1 - Fluoranthene/Pyrene	427		2.08	1.04	
C2 - Fluoranthene/Pyrene	96.9		2.08	1.04	
C3 - Fluoranthene/Pyrene	27.3		2.08	1.04	
C0 - Benz(a)anthracene/Chrysene	497		2.08	1.04	
C1 - Benz(a)anthracene/Chrysene	128		2.08	1.04	
C2 - Benz(a)anthracene/Chrysene	45.0		2.08	1.04	
C3 - Benz(a)anthracene/Chrysene	15.2		2.08	1.04	
C4 - Benz(a)anthracene/Chrysene	4.55		2.08	1.04	
EXTRACTION SURROGATE COMPOUNDS:					
	%R		Min	Max	
Fluorobenzene	96%		50%	150%	
2-Fluorobiphenyl	115%		50%	120%	
5a-Androstane	73%		50%	120%	
Benzo(a)pyrene-d12	85%		50%	120%	

Qualifiers:

- B Analyte detected in the blank
- D Analyte reported from a diluted extract
- U Undetected above the detection limit
- J Estimated value detected between the reporting and detection limits
- E Estimated value detected above calibration range
- RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
- EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: B13-12-13

Preparation Method: EPA 3570

Cleanup Method(s):

Client: GTI
Project: Superior

Analysis Method: GC/MS (EPA 8270 Mod.)

Matrix: Soil

Preservation: None

Lab ID: GT020924-05 1:10

Decanted: No

File ID: 14OCT22.D

Date Sampled: 9/19/2002

Sample Size: 1.433 g

Date Received: 9/24/2002

%Solid: 79%

Date Prepared: 10/11/2002

Extract Volume: 2 mL

Date Cleanup:

Prep DF: 10

Date Analyzed: 15 Oct 2002 12:01 pm

Analysis DF: 1

Instrument: GC/MS Ins

Injection Volume: 0.001 mL

Operator: ECC

Batch QC: GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
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PAH COMPOUNDS:

Benzene	377		1.77	0.88	
Toluene	1,250	B	1.77	0.88	
Ethylbenzene	175		1.77	0.88	
m/p-Xylenes	159		1.77	0.88	
Styrene	5.02		1.77	0.88	
o-Xylene	67.3		1.77	0.88	
1,2,4-Trimethylbenzene	65.6		1.77	0.88	
Naphthalene	1,580		1.77	0.88	
2-Methylnaphthalene	581		1.77	0.88	
1-Methylnaphthalene	364		1.77	0.88	
Acenaphthylene	38.3		1.77	0.88	
Acenaphthene	830		1.77	0.88	
Dibenzofuran	15.5		1.77	0.88	
Fluorene	254		1.77	0.88	
Phenanthrene	899		1.77	0.88	
Anthracene	244		1.77	0.88	
Fluoranthene	254		1.77	0.88	
Pyrene	329		1.77	0.88	
Benz[a]anthracene	62.4		1.77	0.88	
Chrysene	62.4		1.77	0.88	
Benzo[b]fluoranthene	37.5		1.77	0.88	
Benzo[k]fluoranthene	35.3		1.77	0.88	
Benzo(e)pyrene	39.4		1.77	0.88	
Benzo[a]pyrene	58.4		1.77	0.88	
Perylene	8.51		1.77	0.88	
Indeno[1,2,3-cd]pyrene	31.4		1.77	0.88	
Dibenz[a,h]anthracene	7.67		1.77	0.88	
Benzo[g,h,i]perylene	64.9		1.77	0.88	

ALKYLATED PAHS:

C0 - Benzene	377		1.77	0.88	
C1 - Benzene	1,500	B	1.77	0.88	
C2 - Benzene	494		1.77	0.88	
C3 - Benzene	237		1.77	0.88	
C4 - Benzene	221		1.77	0.88	
C5 - Benzene	41.5		1.77	0.88	
C0 - Naphthalene	1,580		1.77	0.88	
C1 - Naphthalene	542		1.77	0.88	
C2 - Naphthalene	234		1.77	0.88	
C3- Naphthalene	58.9		1.77	0.88	
C4- Naphthalene	19.2		1.77	0.88	

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: B13-12-13

Preparation Method: EPA 3570

Cleanup Method(s):

Client: GTI
Project: Superior

Analysis Method: GC/MS (EPA 8270 Mod.)

Matrix: Soil

Preservation: None

Decanted: No

Lab ID: GT020924-05 1:10

File ID: 14OCT22.D

Sample Size: 1.433 g

%Solid: 79%

Extract Volume: 2 mL

Prep DF: 10

Analysis DF: 1

Injection Volume: 0.001 mL

Date Sampled: 9/19/2002

Date Received: 9/24/2002

Date Prepared: 10/11/2002

Date Cleanup:

Date Analyzed: 15 Oct 2002 12:01 pm

Instrument: GC/MS Ins

Operator: ECC

Batch QC: GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
C0 - Fluorene	254		1.77	0.88	
C1 - Fluorene	89.3		1.77	0.88	
C2 - Fluorene	23.3		1.77	0.88	
C3 - Fluorene	6.58		1.77	0.88	
C0 - Phenanthrene/Anthracene	1,170		1.77	0.88	
C1 - Phenanthrene/Anthracene	193		1.77	0.88	
C2 - Phenanthrene/Anthracene	47.0		1.77	0.88	
C3 - Phenanthrene/Anthracene	8.41		1.77	0.88	
C4 - Phenanthrene/Anthracene	2.66		1.77	0.88	
C0 - Dibenzothiophene	83.8		1.77	0.88	
C1 - Dibenzothiophene	24.0		1.77	0.88	
C2 - Dibenzothiophene	10.7		1.77	0.88	
C3 - Dibenzothiophene	5.28		1.77	0.88	
C0 - Fluoranthene/Pyrene	682		1.77	0.88	
C1 - Fluoranthene/Pyrene	99.3		1.77	0.88	
C2 - Fluoranthene/Pyrene	17.4		1.77	0.88	
C3 - Fluoranthene/Pyrene	3.73		1.77	0.88	
C0 - Benz(a)anthracene/Chrysene	140		1.77	0.88	
C1 - Benz(a)anthracene/Chrysene	24.6		1.77	0.88	
C2 - Benz(a)anthracene/Chrysene	7.95		1.77	0.88	
C3 - Benz(a)anthracene/Chrysene	2.39		1.77	0.88	
C4 - Benz(a)anthracene/Chrysene	1.63	J	1.77	0.88	

EXTRACTION SURROGATE COMPOUNDS:

	%R	Min	Max
Fluorobenzene	70%	50%	150%
2-Fluorobiphenyl	93%	50%	120%
5a-Androstane	70%	50%	120%
Benzo(a)pyrene-d12	76%	50%	120%

Qualifiers:

- B Analyte detected in the blank
- D Analyte reported from a diluted extract
- U Undetected above the detection limit
- J Estimated value detected between the reporting and detection limits
- E Estimated value detected above calibration range
- RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
- EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: B23-6-8

Client: GTI
Project: Superior

Lab ID: GT020924-06
File ID: 14OCT23.D

Date Sampled: 9/18/2002
Date Received: 9/24/2002
Date Prepared: 10/11/2002
Date Cleanup:
Date Analyzed: 15 Oct 2002 1:13 pm
Instrument: GC/MS Ins
Operator: ECC

Preparation Method: EPA 3570
Cleanup Method(s):

Analysis Method: GC/MS (EPA 8270 Mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 2.057 g
%Solid: 73%
Extract Volume: 1.5 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
PAH COMPOUNDS:					
Benzene	138	E	0.10	0.05	
Toluene	53.1	B	0.10	0.05	
Ethylbenzene	0.28		0.10	0.05	
m/p-Xylenes	5.71		0.10	0.05	
Styrene	0.72		0.10	0.05	
o-Xylene	1.22		0.10	0.05	
1,2,4-Trimethylbenzene	0.15		0.10	0.05	
Naphthalene	0.18		0.10	0.05	
2-Methylnaphthalene	0.06	J	0.10	0.05	
1-Methylnaphthalene		U	0.10	0.05	
Acenaphthylene		U	0.10	0.05	
Acenaphthene	0.10	J	0.10	0.05	
Dibenzofuran		U	0.10	0.05	
Fluorene		U	0.10	0.05	
Phenanthrene	0.10		0.10	0.05	
Anthracene		U	0.10	0.05	
Fluoranthene		U	0.10	0.05	
Pyrene		U	0.10	0.05	
Benz[a]anthracene		U	0.10	0.05	
Chrysene		U	0.10	0.05	
Benzo[b]fluoranthene		U	0.10	0.05	
Benzo[k]fluoranthene		U	0.10	0.05	
Benzo[e]pyrene		U	0.10	0.05	
Benzo[a]pyrene		U	0.10	0.05	
Perylene		U	0.10	0.05	
Indeno[1,2,3-cd]pyrene		U	0.10	0.05	
Dibenz[a,h]anthracene		U	0.10	0.05	
Benzo[g,h,i]perylene		U	0.10	0.05	
ALKYLATED PAHs:					
C0 - Benzene	138	E	0.10	0.05	
C1 - Benzene	63.7	B	0.10	0.05	
C2 - Benzene	8.87		0.10	0.05	
C3 - Benzene	0.36		0.10	0.05	
C4 - Benzene		U	0.10	0.05	
C5 - Benzene		U	0.10	0.05	
C0 - Naphthalene	0.18		0.10	0.05	
C1 - Naphthalene	0.06	J	0.10	0.05	
C2 - Naphthalene		U	0.10	0.05	
C3 - Naphthalene		U	0.10	0.05	
C4 - Naphthalene		U	0.10	0.05	

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID:	B23-6-8	Preparation Method:	EPA 3570
Client:	GTI	Cleanup Method(s):	
Project:	Superior	Analysis Method:	GC/MS (EPA 8270 Mod.)
Lab ID:	GT020924-06	Matrix:	Soil
File ID:	14OCT23.D	Preservation:	None
Date Sampled:	9/18/2002	Decanted:	No
Date Received:	9/24/2002	Sample Size:	2.057 g
Date Prepared:	10/11/2002	%Solid:	73%
Date Cleanup:		Extract Volume:	1.5 mL
Date Analyzed:	15 Oct 2002 1:13 pm	Prep DF:	1
Instrument:	GC/MS Ins	Analysis DF:	1
Operator:	ECC	Injection Volume:	0.001 mL
		Batch QC:	GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
C0 - Fluorene		U	0.10	0.05	
C1 - Fluorene		U	0.10	0.05	
C2 - Fluorene		U	0.10	0.05	
C3 - Fluorene		U	0.10	0.05	
C0 - Phenanthrene/Anthracene	0.14		0.10	0.05	
C1 - Phenanthrene/Anthracene		U	0.10	0.05	
C2 - Phenanthrene/Anthracene		U	0.10	0.05	
C3 - Phenanthrene/Anthracene		U	0.10	0.05	
C4 - Phenanthrene/Anthracene		U	0.10	0.05	
C0 - Dibenzothiophene		U	0.10	0.05	
C1 - Dibenzothiophene		U	0.10	0.05	
C2 - Dibenzothiophene		U	0.10	0.05	
C3 - Dibenzothiophene		U	0.10	0.05	
C0 - Fluoranthene/Pyrene		U	0.10	0.05	
C1 - Fluoranthene/Pyrene		U	0.10	0.05	
C2 - Fluoranthene/Pyrene		U	0.10	0.05	
C3 - Fluoranthene/Pyrene		U	0.10	0.05	
C0 - Benz(a)anthracene/Chrysene		U	0.10	0.05	
C1 - Benz(a)anthracene/Chrysene		U	0.10	0.05	
C2 - Benz(a)anthracene/Chrysene		U	0.10	0.05	
C3 - Benz(a)anthracene/Chrysene		U	0.10	0.05	
C4 - Benz(a)anthracene/Chrysene		U	0.10	0.05	

EXTRACTION SURROGATE COMPOUNDS:	%R	Min	Max
Fluorobenzene	74%	50%	150%
2-Fluorobiphenyl	82%	50%	120%
5a-Androstane	63%	50%	120%
Benzo(a)pyrene-d12	91%	50%	120%

FRACTIONATION SURROGATE COMPOUNDS:		50%	150%
2,5-Dibromotoluene	Not Spiked	50%	150%
2-Bromonaphthalene	0%	50%	150%
1-Chlorooctadecane	Not Spiked	50%	150%

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: B23-10-12

Client: GTI
Project: Superior

Lab ID: GT020924-07
File ID: 14OCT26.D

Date Sampled: 9/19/2002
Date Received: 9/24/2002
Date Prepared: 10/11/2002
Date Cleanup:
Date Analyzed: 15 Oct 2002 3:57 pm
Instrument: GC/MS Ins
Operator: ECC

Preparation Method: EP A 3570
Cleanup Method(s):

Analysis Method: GC/MS (EPA 8270 Mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 2.018 g
%Solid: 77%
Extract Volume: 1.3 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
PAH COMPOUNDS:					
Benzene	49.7		0.08	0.04	
Toluene	49.1	B	0.08	0.04	
Ethylbenzene	0.60		0.08	0.04	
m/p-Xylenes	9.68		0.08	0.04	
Styrene	2.70		0.08	0.04	
o-Xylene	2.23		0.08	0.04	
1,2,4-Trimethylbenzene	0.50		0.08	0.04	
Naphthalene	0.37		0.08	0.04	
2-Methylnaphthalene	0.37		0.08	0.04	
1-Methylnaphthalene	0.35		0.08	0.04	
Acenaphthylene	0.35		0.08	0.04	
Acenaphthene	0.42		0.08	0.04	
Dibenzofuran	0.39		0.08	0.04	
Fluorene	0.34		0.08	0.04	
Phenanthrene	0.32		0.08	0.04	
Anthracene	0.35		0.08	0.04	
Fluoranthene	0.23		0.08	0.04	
Pyrene	0.22		0.08	0.04	
Benz[a]anthracene	0.09		0.08	0.04	
Chrysene	0.16		0.08	0.04	
Benzo[b]fluoranthene	0.12		0.08	0.04	
Benzo[k]fluoranthene	0.20		0.08	0.04	
Benzo(e)pyrene		U	0.08	0.04	
Benzo[a]pyrene	0.20		0.08	0.04	
Perylene		U	0.08	0.04	
Indeno[1,2,3-cd]pyrene	0.11		0.08	0.04	
Dibenz[a,h]anthracene	0.06	J	0.08	0.04	
Benzo[g,h,i]perylene	0.20		0.08	0.04	

ALKYLATED PAHs:

C0 - Benzene	49.7		0.08	0.04	
C1 - Benzene	58.9	B	0.08	0.04	
C2 - Benzene	15.7		0.08	0.04	
C3 - Benzene	1.29		0.08	0.04	
C4 - Benzene	0.44		0.08	0.04	
C5 - Benzene		U	0.08	0.04	
C0 - Naphthalene	0.37		0.08	0.04	
C1 - Naphthalene	0.43		0.08	0.04	
C2 - Naphthalene		U	0.08	0.04	
C3 - Naphthalene		U	0.08	0.04	
C4 - Naphthalene		U	0.08	0.04	

Analytical Results for Volatile and Semivolatile Organics META Environmental, Inc.

Field ID:	B23-10-12	Preparation Method:	EP A 3570
Client:	GTI	Cleanup Method(s):	
Project:	Superior	Analysis Method:	GC/MS (EPA 8270 Mod.)
Lab ID:	GT020924-07	Matrix:	Soil
File ID:	14OCT26.D	Preservation:	None
Date Sampled:	9/19/2002	Decanted:	No
Date Received:	9/24/2002	Sample Size:	2.018 g
Date Prepared:	10/11/2002	%Solid:	77%
Date Cleanup:		Extract Volume:	1.3 mL
Date Analyzed:	15 Oct 2002 3:57 pm	Prep DF:	1
Instrument:	GC/MS Ins	Analysis DF:	1
Operator:	ECC	Injection Volume:	0.001 mL
		Batch QC:	GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
C0 - Fluorene	0.34		0.08	0.04	
C1 - Fluorene		U	0.08	0.04	
C2 - Fluorene		U	0.08	0.04	
C3 - Fluorene		U	0.08	0.04	
C0 - Phenanthrene/Anthracene	0.66		0.08	0.04	
C1 - Phenanthrene/Anthracene		U	0.08	0.04	
C2 - Phenanthrene/Anthracene		U	0.08	0.04	
C3 - Phenanthrene/Anthracene		U	0.08	0.04	
C4 - Phenanthrene/Anthracene		U	0.08	0.04	
C0 - Dibenzothiophene		U	0.08	0.04	
C1 - Dibenzothiophene		U	0.08	0.04	
C2 - Dibenzothiophene		U	0.08	0.04	
C3 - Dibenzothiophene		U	0.08	0.04	
C0 - Fluoranthene/Pyrene	0.47		0.08	0.04	
C1 - Fluoranthene/Pyrene		U	0.08	0.04	
C2 - Fluoranthene/Pyrene		U	0.08	0.04	
C3 - Fluoranthene/Pyrene		U	0.08	0.04	
C0 - Benz(a)anthracene/Chrysene	0.26		0.08	0.04	
C1 - Benz(a)anthracene/Chrysene		U	0.08	0.04	
C2 - Benz(a)anthracene/Chrysene		U	0.08	0.04	
C3 - Benz(a)anthracene/Chrysene		U	0.08	0.04	
C4 - Benz(a)anthracene/Chrysene		U	0.08	0.04	

EXTRACTION SURROGATE COMPOUNDS:			
	%R	Min	Max
Fluorobenzene	87%	50%	150%
2-Fluorobiphenyl	89%	50%	120%
5a-Androstane	67%	50%	120%
Benzo(a)pyrene-d12	91%	50%	120%

FRACTIONATION SURROGATE COMPOUNDS:			
2,5-Dibromotoluene	Not Spiked	50%	150%
2-Bromonaphthalene	1%	50%	150%
1-Chlorooctadecane	Not Spiked	50%	150%

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: Soil Blank

Client: Various
Project: Various

Lab ID: GT021011-SB
File ID: 16OCT11.D

Date Sampled:
Date Received:
Date Prepared: 10/11/2002
Date Cleanup:
Date Analyzed: 16 Oct 2002 9:39 pm
Instrument: GC/MS Ins
Operator: ECC

Preparation Method: EPA 3570
Cleanup Method(s):

Analysis Method: GC/MS (EPA 8270 Mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 2 g
%Solid: 100%
Extract Volume: 1.1 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
PAH COMPOUNDS:					
Benzene		U	0.06	0.03	
Toluene	0.04	J	0.06	0.03	
Ethylbenzene		U	0.06	0.03	
m/p-Xylenes		U	0.06	0.03	
Styrene		U	0.06	0.03	
o-Xylene		U	0.06	0.03	
1,2,4-Trimethylbenzene		U	0.06	0.03	
Naphthalene		U	0.06	0.03	
2-Methylnaphthalene		U	0.06	0.03	
1-Methylnaphthalene		U	0.06	0.03	
Acenaphthylene		U	0.06	0.03	
Acenaphthene		U	0.06	0.03	
Dibenzofuran		U	0.06	0.03	
Fluorene		U	0.06	0.03	
Phenanthrene		U	0.06	0.03	
Anthracene		U	0.06	0.03	
Fluoranthene		U	0.06	0.03	
Pyrene		U	0.06	0.03	
Benz[a]anthracene		U	0.06	0.03	
Chrysene		U	0.06	0.03	
Benzo[b]fluoranthene		U	0.06	0.03	
Benzo[k]fluoranthene		U	0.06	0.03	
Benzo(e)pyrene		U	0.06	0.03	
Benzo[a]pyrene		U	0.06	0.03	
Perylene		U	0.06	0.03	
Indeno[1,2,3-cd]pyrene		U	0.06	0.03	
Dibenz[a,h]anthracene		U	0.06	0.03	
Benzo[g,h,i]perylene		U	0.06	0.03	
ALKYLATED PAHS:					
C0 - Benzene		U	0.06	0.03	
C1 - Benzene	0.05	J	0.06	0.03	
C2 - Benzene		U	0.06	0.03	
C3 - Benzene		U	0.06	0.03	
C4 - Benzene		U	0.06	0.03	
C5 - Benzene		U	0.06	0.03	
C0 - Naphthalene		U	0.06	0.03	
C1 - Naphthalene		U	0.06	0.03	
C2 - Naphthalene		U	0.06	0.03	
C3 - Naphthalene		U	0.06	0.03	
C4 - Naphthalene		U	0.06	0.03	

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: Soil Blank

Preparation Method: EPA 3570

Cleanup Method(s):

Client: Various
Project: Various

Analysis Method: GC/MS (EPA 8270 Mod.)

Matrix: Soil

Preservation: None

Decanted: No

Lab ID: GT021011-SB

File ID: 16OCT11.D

Sample Size: 2 g

%Solid: 100%

Extract Volume: 1.1 mL

Prep DF: 1

Analysis DF: 1

Injection Volume: 0.001 mL

Date Sampled:

Date Received:

Date Prepared: 10/11/2002

Date Cleanup:

Date Analyzed: 16 Oct 2002 9:39 pm

Instrument: GC/MS Ins

Operator: ECC

Batch QC: GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
C0 - Fluorene		U	0.06	0.03	
C1 - Fluorene		U	0.06	0.03	
C2 - Fluorene		U	0.06	0.03	
C3 - Fluorene		U	0.06	0.03	
C0 - Phenanthrene/Anthracene		U	0.06	0.03	
C1 - Phenanthrene/Anthracene		U	0.06	0.03	
C2 - Phenanthrene/Anthracene		U	0.06	0.03	
C3 - Phenanthrene/Anthracene		U	0.06	0.03	
C4 - Phenanthrene/Anthracene		U	0.06	0.03	
C0 - Dibenzothiophene		U	0.06	0.03	
C1 - Dibenzothiophene		U	0.06	0.03	
C2 - Dibenzothiophene		U	0.06	0.03	
C3 - Dibenzothiophene		U	0.06	0.03	
C0 - Fluoranthene/Pyrene		U	0.06	0.03	
C1 - Fluoranthene/Pyrene		U	0.06	0.03	
C2 - Fluoranthene/Pyrene		U	0.06	0.03	
C3 - Fluoranthene/Pyrene		U	0.06	0.03	
C0 - Benz(a)anthracene/Chrysene		U	0.06	0.03	
C1 - Benz(a)anthracene/Chrysene		U	0.06	0.03	
C2 - Benz(a)anthracene/Chrysene		U	0.06	0.03	
C3 - Benz(a)anthracene/Chrysene		U	0.06	0.03	
C4 - Benz(a)anthracene/Chrysene		U	0.06	0.03	
EXTRACTION SURROGATE COMPOUNDS:	%R		Min	Max	
Fluorobenzene	67%		50%	150%	
2-Fluorobiphenyl	80%		50%	120%	
5a-Androstane	68%		50%	120%	
Benzo(a)pyrene-d12	109%		50%	120%	

Qualifiers:

- B Analyte detected in the blank
- D Analyte reported from a diluted extract
- U Undetected above the detection limit
- J Estimated value detected between the reporting and detection limits
- E Estimated value detected above calibration range
- RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
- EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID:	Soil Blank Spike	Preparation Method:	EPA 3570
Client:	Various	Cleanup Method(s):	
Project:	Various	Analysis Method:	GC/MS (EPA 8270 Mod.)
Lab ID:	GT021011-SBS	Matrix:	Soil
File ID:	14OCT17.D	Preservation:	None
Date Sampled:		Decanted:	No
Date Received:		Sample Size:	2 g
Date Prepared:	10/11/2002	%Solid:	100%
Date Cleanup:		Extract Volume:	1.3 mL
Date Analyzed:	15 Oct 2002 6:05 am	Prep DF:	1
Instrument:	GC/MS Ins	Analysis DF:	1
Operator:	ECC	Injection Volume:	0.001 mL
		Batch QC:	GT021011-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
PAH COMPOUNDS:					
Benzene	14.8		0.07	0.03	72.1%
Toluene	16.7		0.07	0.03	72.5%
Ethylbenzene	18.3		0.07	0.03	68.5%
m/p-Xylenes	16.8		0.07	0.03	67.1%
Styrene	20.0		0.07	0.03	65.4%
o-Xylene	17.5		0.07	0.03	67.8%
1,2,4-Trimethylbenzene	22.1		0.07	0.03	68.2%
Naphthalene	22.4		0.07	0.03	69.2%
2-Methylnaphthalene	25.7		0.07	0.03	71.8%
1-Methylnaphthalene	24.7		0.07	0.03	72.7%
Acenaphthylene	24.8		0.07	0.03	73.6%
Acenaphthene	27.2		0.07	0.03	72.7%
Dibenzofuran	24.7		0.07	0.03	71.8%
Fluorene	23.1		0.07	0.03	71.5%
Phenanthrene	21.5		0.07	0.03	68.1%
Anthracene	20.5		0.07	0.03	62.9%
Fluoranthene	14.6		0.07	0.03	61.0%
Pyrene	14.1		0.07	0.03	57.2%
Benz[a]anthracene	9.47		0.07	0.03	44.3%
Chrysene	10.6		0.07	0.03	49.4%
Benzo[b]fluoranthene	10.3		0.07	0.03	40.1%
Benzo[k]fluoranthene	12.5		0.07	0.03	52.8%
Benzo[a]pyrene	10.3		0.07	0.03	46.6%
Indeno[1,2,3-cd]pyrene	15.5		0.07	0.03	61.4%
Dibenz[a,h]anthracene	12.1		0.07	0.03	51.7%
Benzo[g,h,i]perylene	18.8		0.07	0.03	74.3%

EXTRACTION SURROGATE COMPOUNDS:	%R	Min	Max
Fluorobenzene	73%	50%	150%
2-Fluorobiphenyl	82%	50%	120%
5a-Androstane	67%	50%	120%
Benzo(a)pyrene-d12	87%	50%	120%

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: Soil Blank

Client: GTI
Project: Superior

Lab ID: IS021121-SB
File ID: 15DEC05.D

Date Sampled:
Date Received:
Date Prepared: 11/21/2002
Date Cleanup:
Date Analyzed: 15 Dec 2002 6:27 pm
Instrument: GC4-MS_59
Operator: DRC

Preparation Method: EPA 3540
Cleanup Method(s):

Analysis Method: GC/MS (EPA 8270 Mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 10 g
%Solid: 100%
Extract Volume: 2 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: IS021121-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
PAH COMPOUNDS:					
Benzene		U	0.02	0.01	
Toluene	0.02	J	0.02	0.01	
Ethylbenzene		U	0.02	0.01	
m/p-Xylenes		U	0.02	0.01	
Styrene		U	0.02	0.01	
o-Xylene		U	0.02	0.01	
1,2,4-Trimethylbenzene		U	0.02	0.01	
Naphthalene		U	0.02	0.01	
2-Methylnaphthalene		U	0.02	0.01	
1-Methylnaphthalene		U	0.02	0.01	
Acenaphthylene		U	0.02	0.01	
Acenaphthene		U	0.02	0.01	
Dibenzofuran		U	0.02	0.01	
Fluorene		U	0.02	0.01	
Phenanthrene		U	0.02	0.01	
Anthracene		U	0.02	0.01	
Fluoranthene		U	0.02	0.01	
Pyrene		U	0.02	0.01	
Benz[a]anthracene		U	0.02	0.01	
Chrysene		U	0.02	0.01	
Benzo[b]fluoranthene		U	0.02	0.01	
Benzo[k]fluoranthene		U	0.02	0.01	
Benzo(e)pyrene		U	0.02	0.01	
Benzo[a]pyrene		U	0.02	0.01	
Perylene		U	0.02	0.01	
Indeno[1,2,3-cd]pyrene		U	0.02	0.01	
Dibenz[a,h]anthracene		U	0.02	0.01	
Benzo[g,h,i]perylene		U	0.02	0.01	
ALKYLATED PAHs:					
C0 - Benzene		U	0.02	0.01	
C1 - Benzene	0.02	J	0.02	0.01	
C2 - Benzene		U	0.02	0.01	
C3 - Benzene		U	0.02	0.01	
C4 - Benzene		U	0.02	0.01	
C5 - Benzene		U	0.02	0.01	
C0 - Naphthalene		U	0.02	0.01	
C1 - Naphthalene		U	0.02	0.01	
C2 - Naphthalene		U	0.02	0.01	
C3 - Naphthalene		U	0.02	0.01	
C4 - Naphthalene		U	0.02	0.01	

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: Soil Blank

Client: GTI
Project: Superior

Lab ID: IS021121-SB
File ID: 15DEC05.D

Date Sampled:
Date Received:
Date Prepared: 11/21/2002
Date Cleanup:
Date Analyzed: 15 Dec 2002 6:27 pm
Instrument: GC4-MS_59
Operator: DRC

Preparation Method: EPA 3540
Cleanup Method(s):

Analysis Method: GC/MS (EPA 8270 Mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 10 g
%Solid: 100%
Extract Volume: 2 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: IS021121-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
C0 - Fluorene		U	0.02	0.01	
C1 - Fluorene		U	0.02	0.01	
C2 - Fluorene		U	0.02	0.01	
C3 - Fluorene		U	0.02	0.01	
C0 - Phenanthrene/Anthracene		U	0.02	0.01	
C1 - Phenanthrene/Anthracene		U	0.02	0.01	
C2 - Phenanthrene/Anthracene		U	0.02	0.01	
C3 - Phenanthrene/Anthracene		U	0.02	0.01	
C4 - Phenanthrene/Anthracene		U	0.02	0.01	
C0 - Dibenzothiophene		U	0.02	0.01	
C1 - Dibenzothiophene		U	0.02	0.01	
C2 - Dibenzothiophene		U	0.02	0.01	
C3 - Dibenzothiophene		U	0.02	0.01	
C0 - Fluoranthene/Pyrene		U	0.02	0.01	
C1 - Fluoranthene/Pyrene		U	0.02	0.01	
C2 - Fluoranthene/Pyrene		U	0.02	0.01	
C3 - Fluoranthene/Pyrene		U	0.02	0.01	
C0 - Benz(a)anthracene/Chrysene		U	0.02	0.01	
C1 - Benz(a)anthracene/Chrysene		U	0.02	0.01	
C2 - Benz(a)anthracene/Chrysene		U	0.02	0.01	
C3 - Benz(a)anthracene/Chrysene		U	0.02	0.01	
C4 - Benz(a)anthracene/Chrysene		U	0.02	0.01	

EXTRACTION SURROGATE COMPOUNDS:	%R	Min	Max
Fluorobenzene	75%	50%	150%
2-Fluorobiphenyl	119%	50%	120%
5a-Androstane	109%	50%	120%
Benzo(a)pyrene-d12	55%	50%	120%

Qualifiers:
 B Analyte detected in the blank
 D Analyte reported from a diluted extract
 U Undetected above the detection limit
 J Estimated value detected between the reporting and detection limits
 E Estimated value detected above calibration range
 RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
 EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.**

Field ID: Blank Spike

Client: GTI
Project: Superior

Lab ID: IS021121-SBS
File ID: 15DEC06.D

Date Sampled:
Date Received:
Date Prepared: 11/21/2002
Date Cleanup:
Date Analyzed: 15 Dec 2002 7:36 pm
Instrument: GC4-MS_59
Operator: DRC

Preparation Method: EPA 3540
Cleanup Method(s):

Analysis Method: GC/MS (EPA 8270 Mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 10 g
%Solid: 100%
Extract Volume: 2 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: IS021121-SB

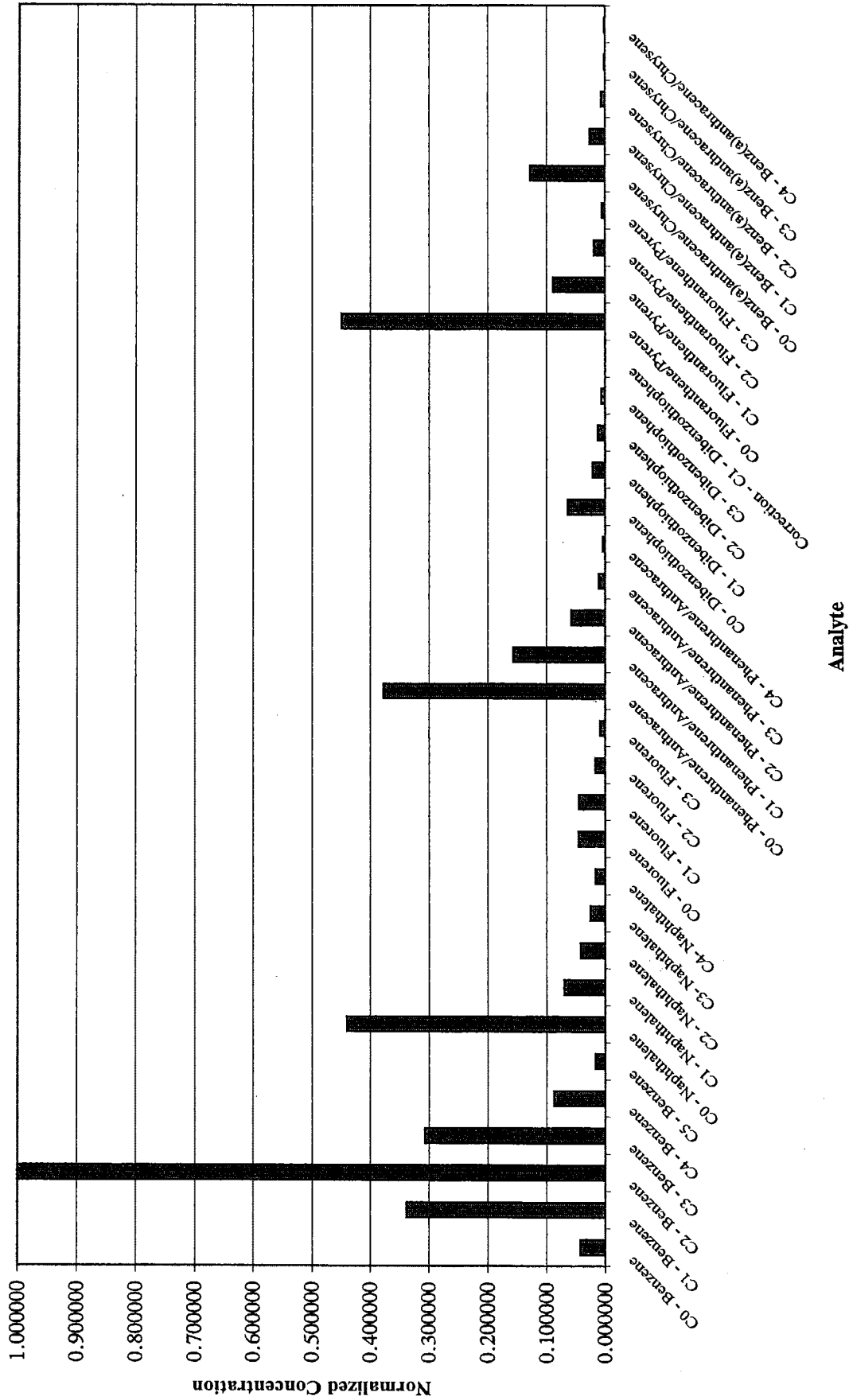
Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
PAH COMPOUNDS:					
Benzene	3.49		0.02	0.01	69.8%
Toluene	5.40		0.02	0.01	108.0%
Ethylbenzene	5.77		0.02	0.01	115.4%
m/p-Xylenes	5.84		0.02	0.01	116.8%
Styrene	5.77		0.02	0.01	115.4%
o-Xylene	5.75		0.02	0.01	115.0%
1,2,4-Trimethylbenzene	5.50		0.02	0.01	110.0%
Naphthalene	5.65		0.02	0.01	113.0%
2-Methylnaphthalene	5.75		0.02	0.01	115.0%
1-Methylnaphthalene	5.44		0.02	0.01	108.8%
Acenaphthylene	5.59		0.02	0.01	111.8%
Acenaphthene	5.35		0.02	0.01	107.0%
Dibenzofuran	5.24		0.02	0.01	104.8%
Fluorene	5.37		0.02	0.01	107.4%
Phenanthrene	5.24		0.02	0.01	104.8%
Anthracene	4.87		0.02	0.01	97.4%
Fluoranthene	5.23		0.02	0.01	104.6%
Pyrene	5.26		0.02	0.01	105.2%
Benz[a]anthracene	5.75		0.02	0.01	115.0%
Chrysene	5.31		0.02	0.01	106.2%
Benzo[b]fluoranthene	6.22		0.02	0.01	124.4%
Benzo[k]fluoranthene	5.16		0.02	0.01	103.2%
Benzo(e)pyrene	5.64		0.02	0.01	112.8%
Benzo[a]pyrene	5.64		0.02	0.01	112.8%
Perylene	5.64		0.02	0.01	112.8%
Indeno[1,2,3-cd]pyrene	6.14		0.02	0.01	122.8%
Dibenz[a,h]anthracene	6.25		0.02	0.01	125.0%
Benzo[g,h,i]perylene	5.70		0.02	0.01	114.0%
EXTRACTION SURROGATE COMPOUNDS:					
	%R		Min	Max	
Fluorobenzene	77%		50%	150%	
2-Fluorobiphenyl	119%		50%	120%	
5a-Androstane	108%		50%	120%	
Benzo(a)pyrene-d12	56%		50%	120%	

Qualifiers:

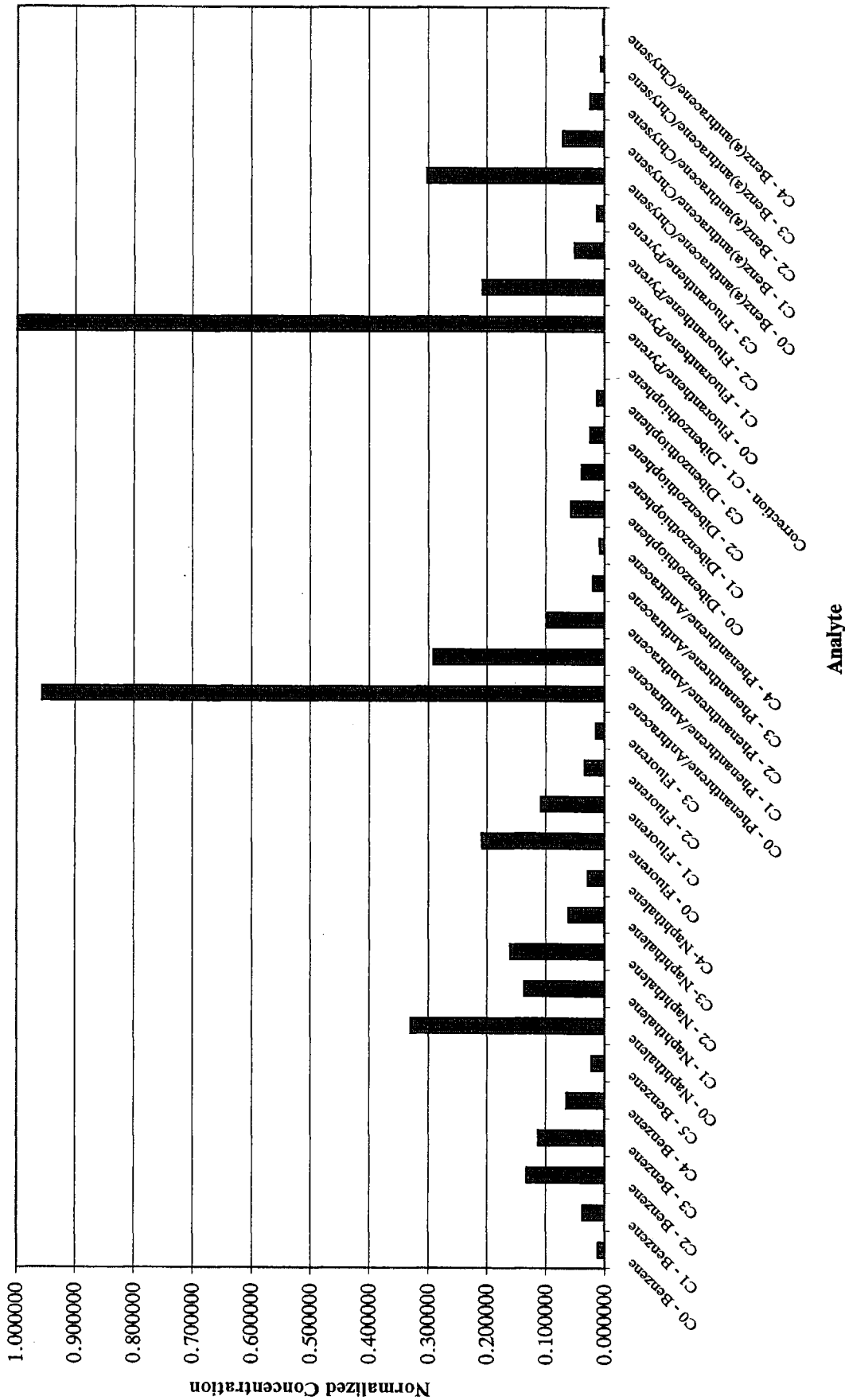
B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL

Appendix D
Extended PAH Profiles – Bar Graphs

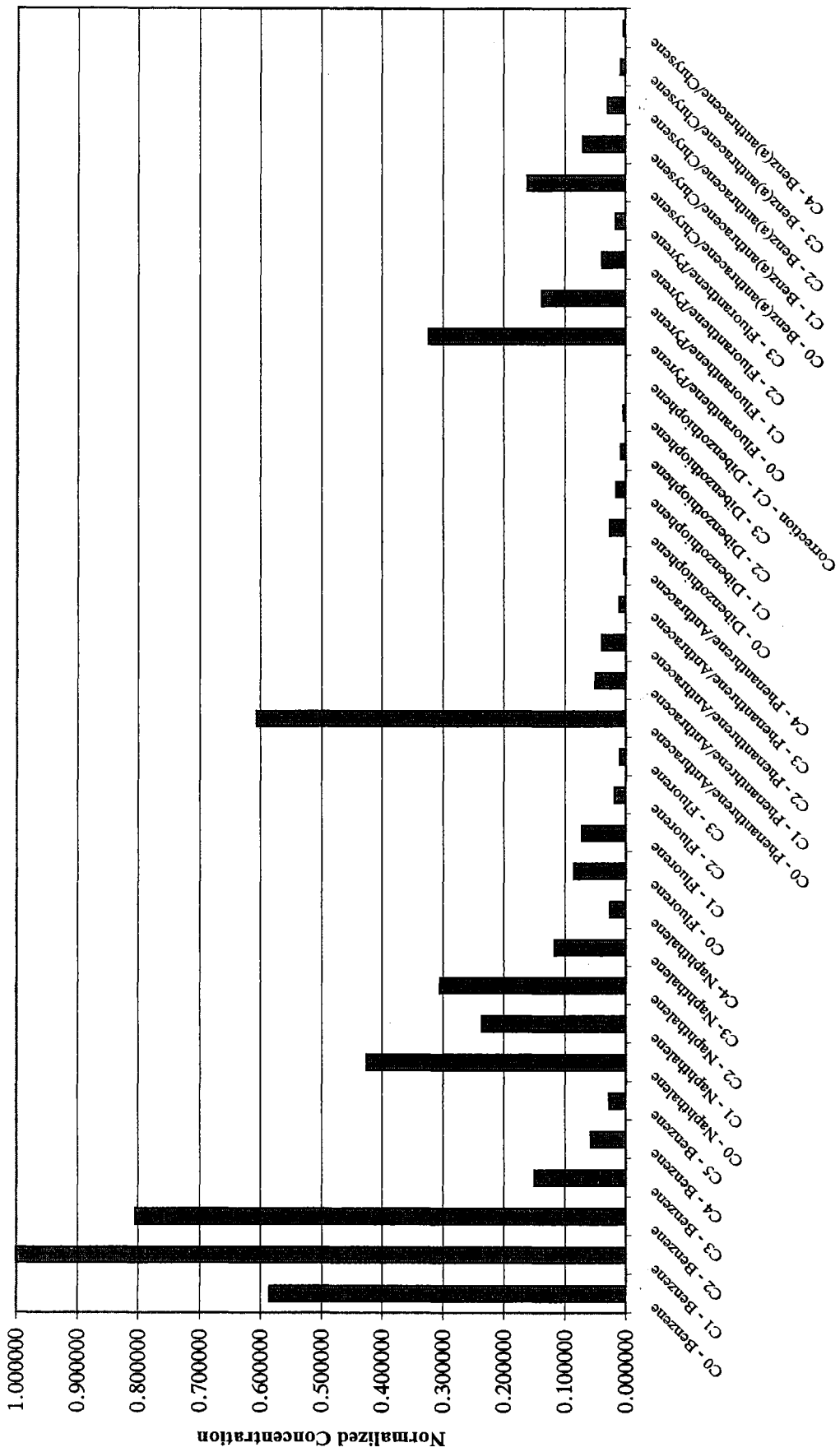
T10-1



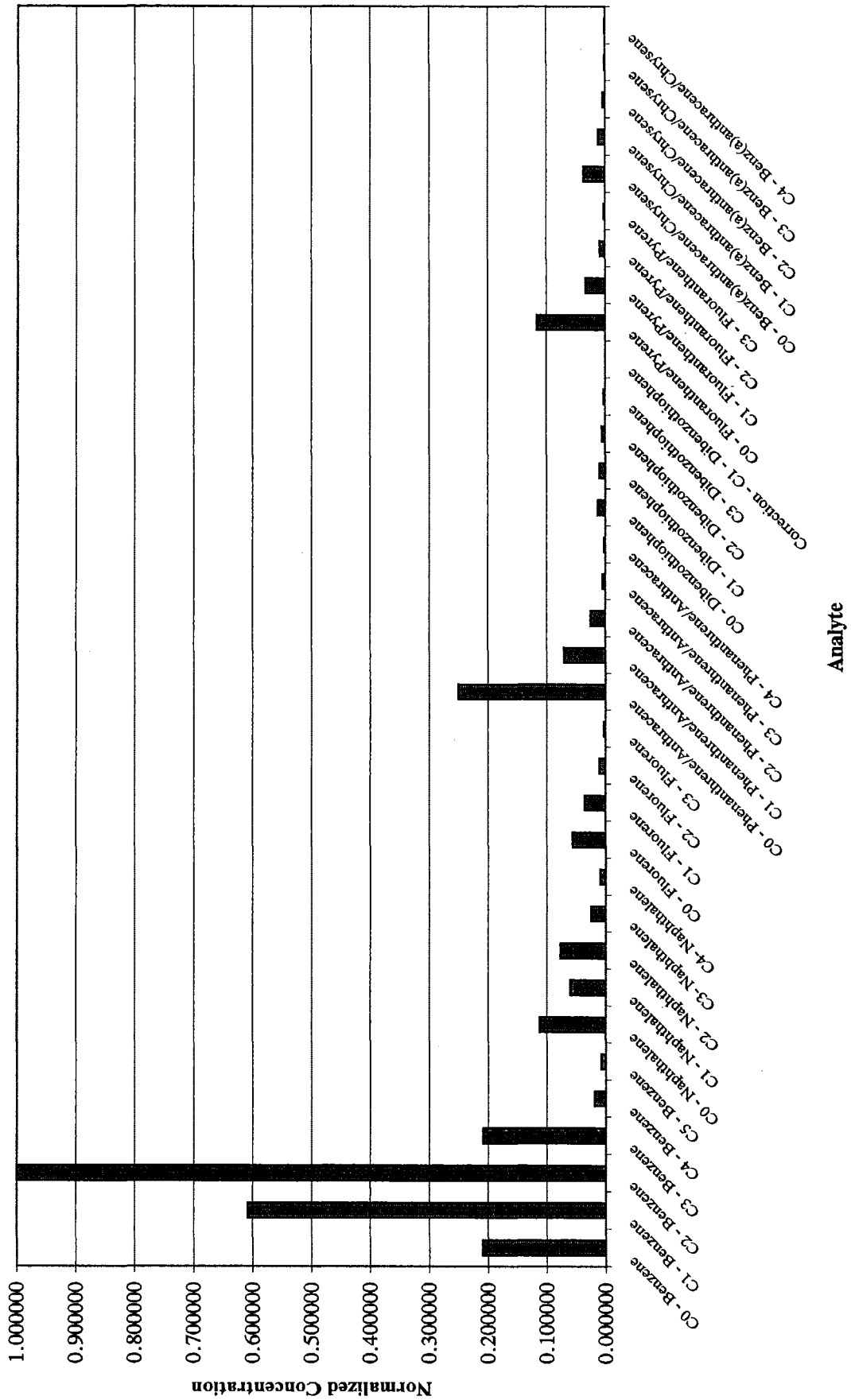
T10-2



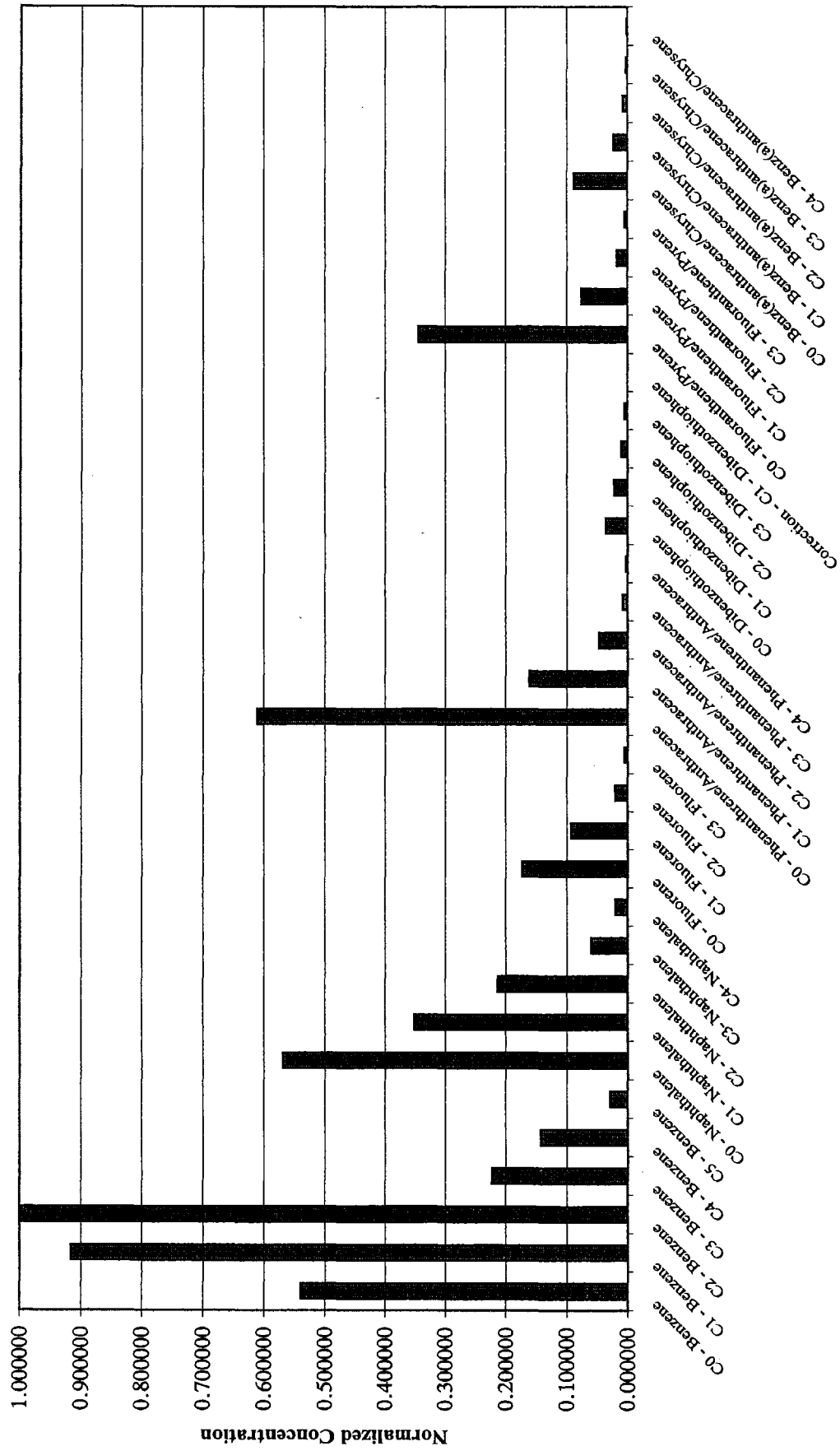
T10-3



B-11-12-13

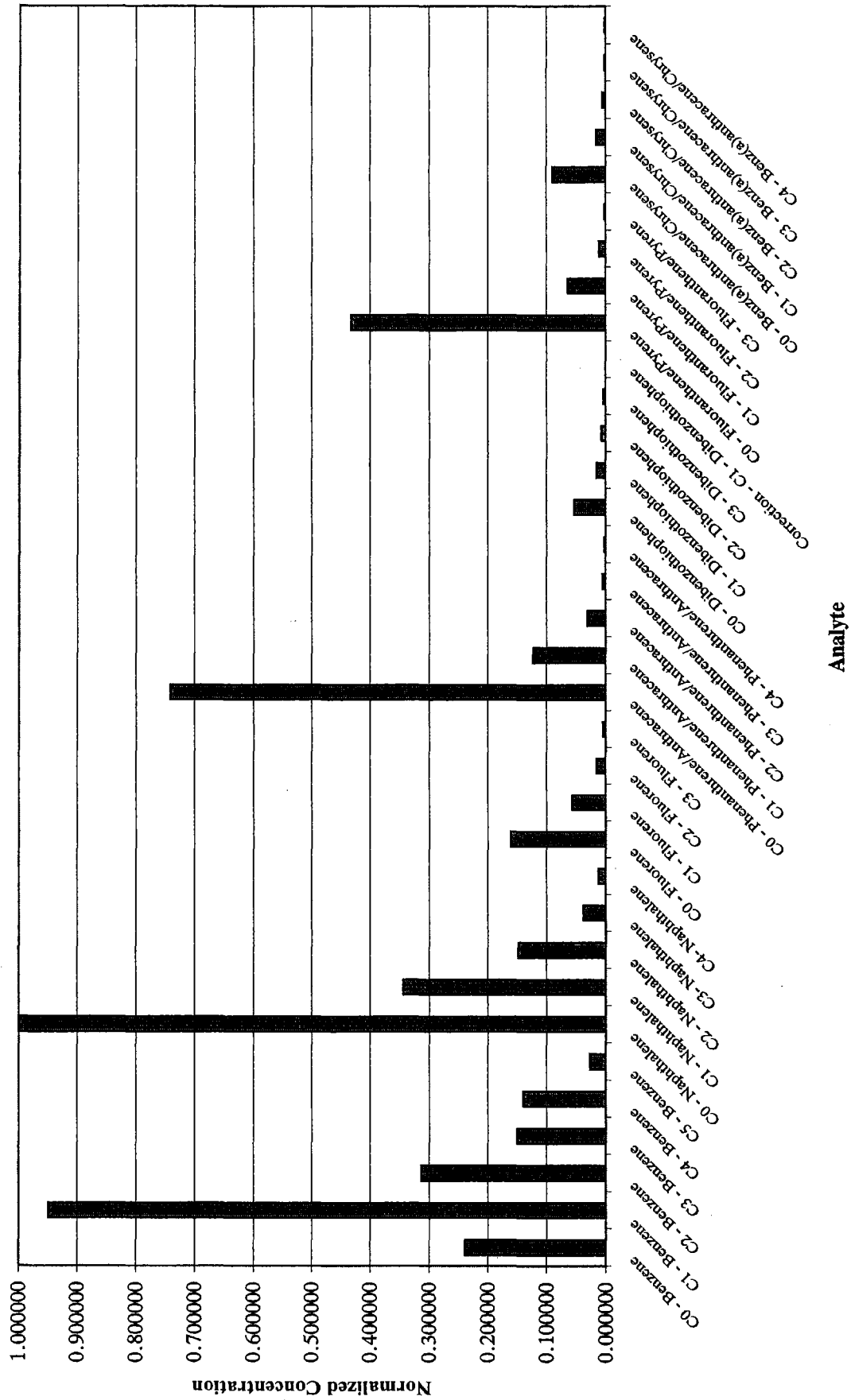


B-12-11-12

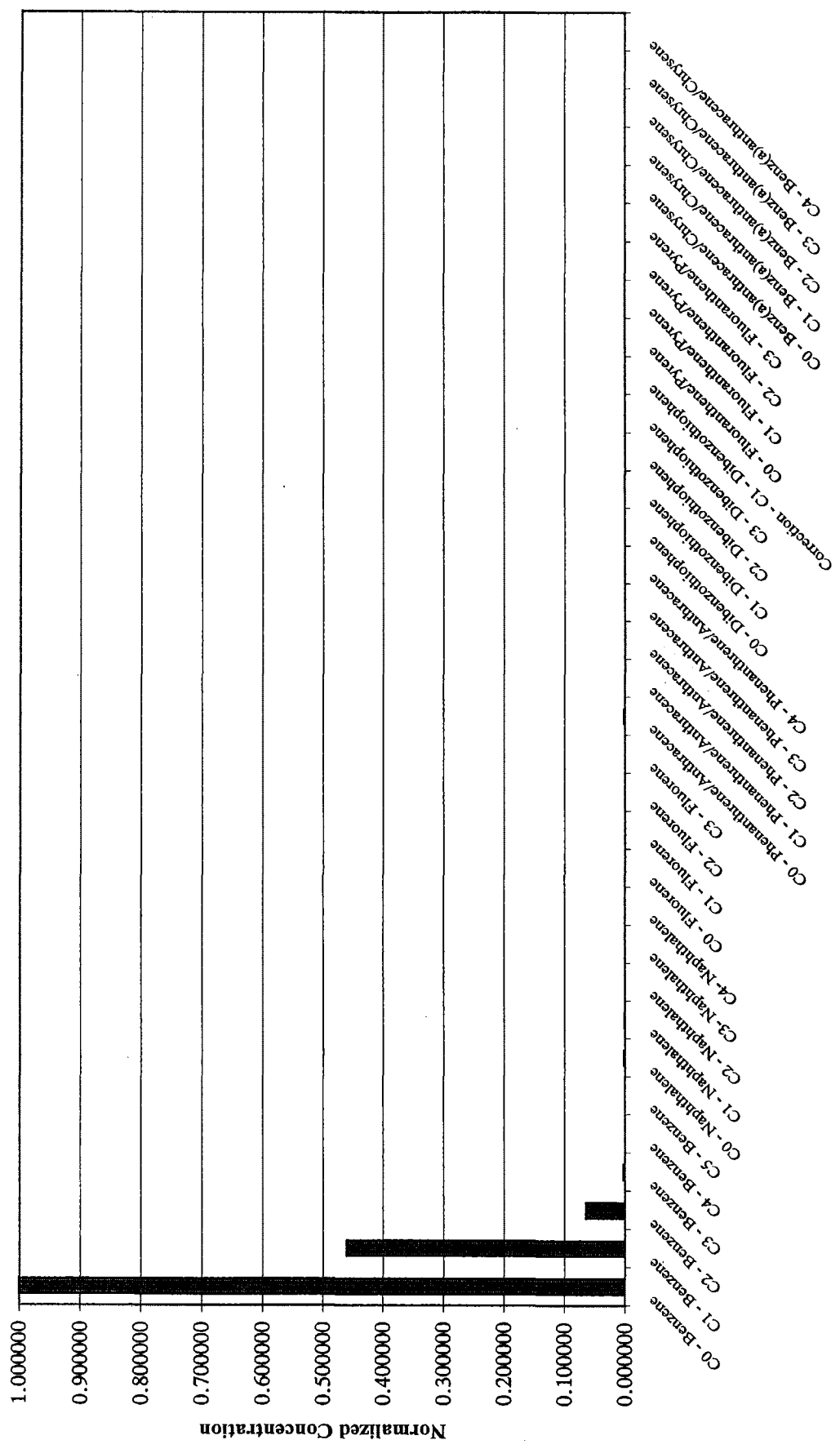


Analyte

B-13-12-13



B-23-6-8

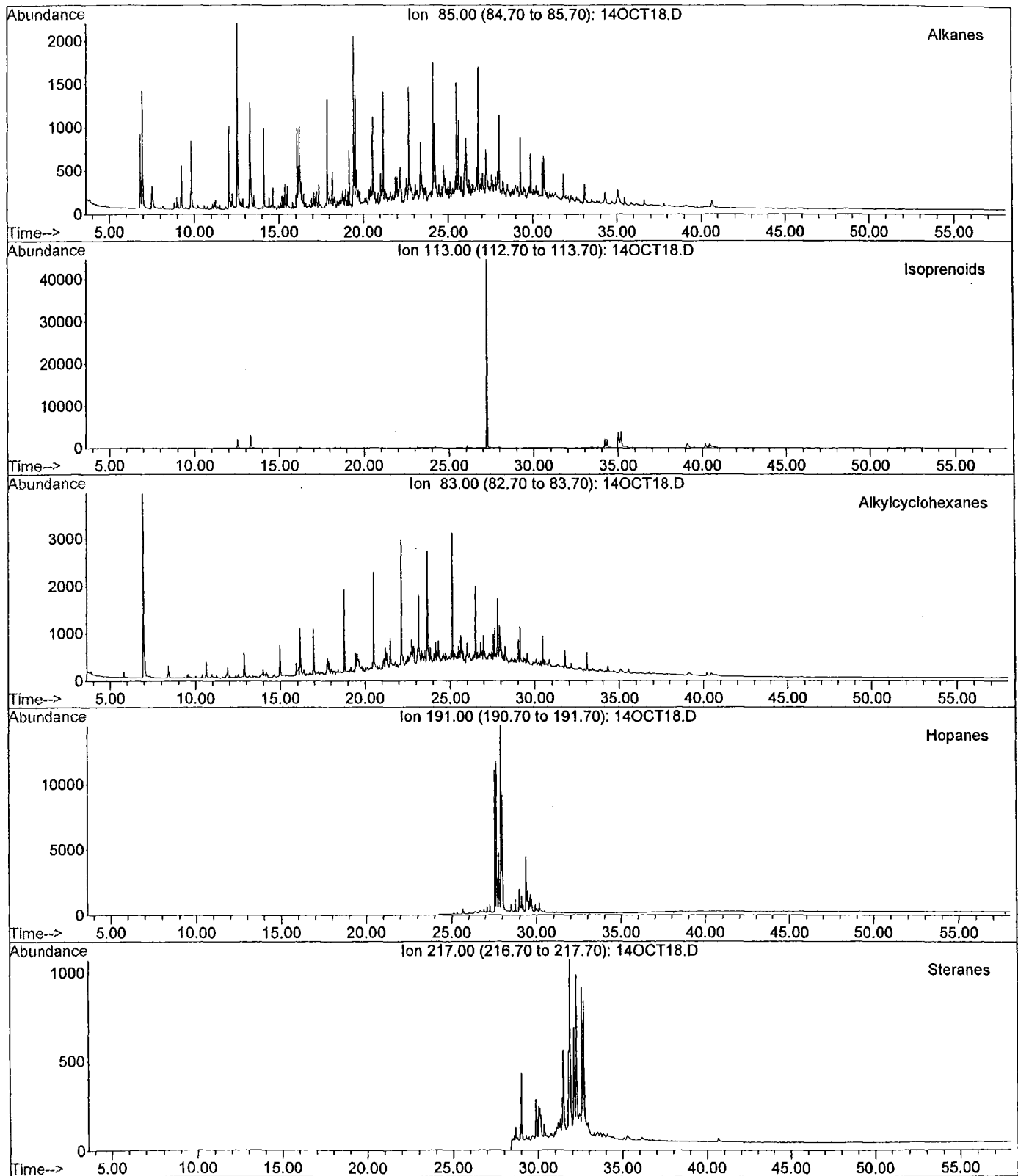


Appendix E
Extracted Ion Current Profiles (EICs)

Primary Ions for Target Compounds and Compound Groups

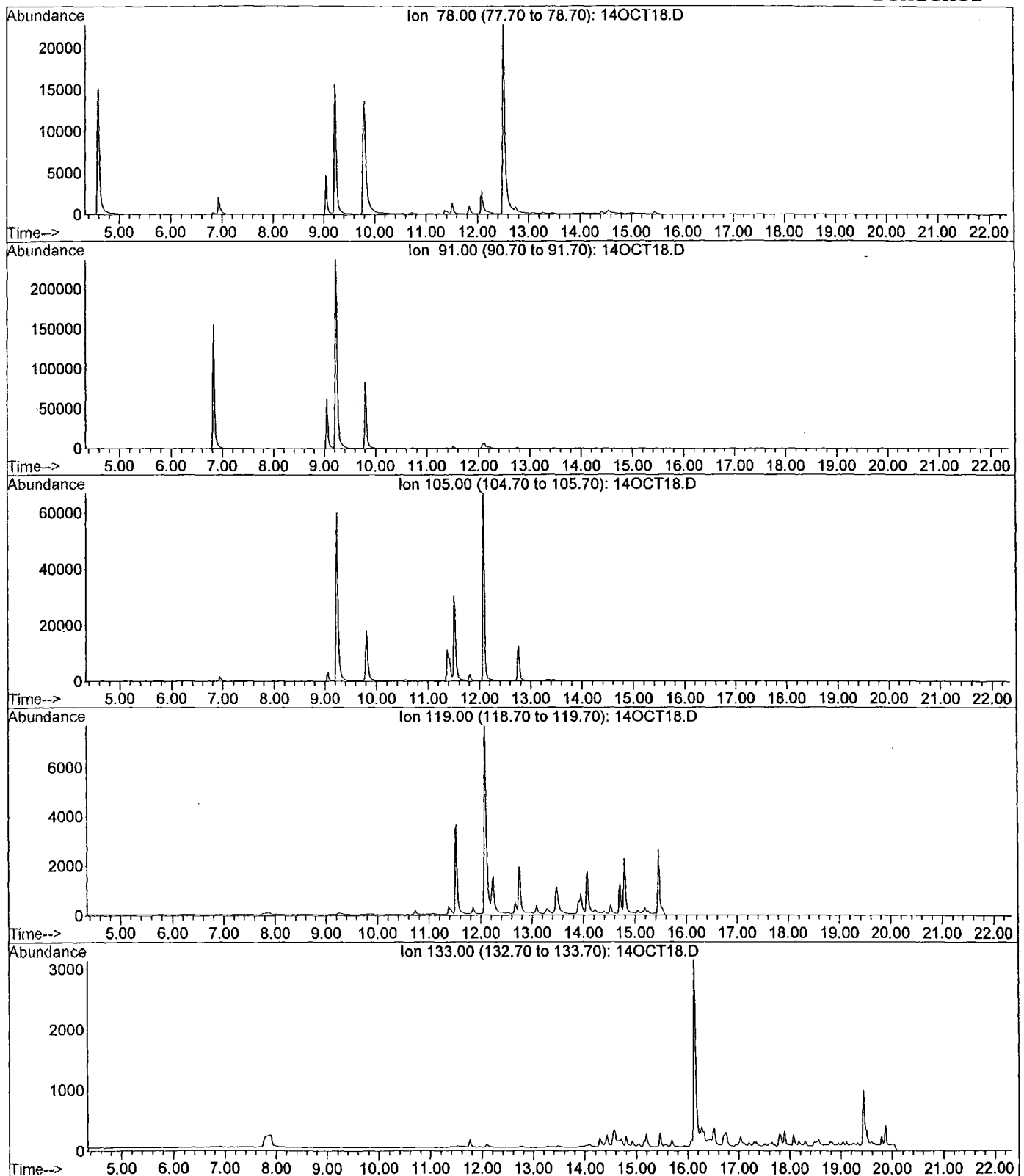
Target Compound or Group	Abbreviation	Ion
Alkylated cyclohexanes		83
Normal alkanes, pristane, phytane		85
Isoprenoid hydrocarbons, pristane, phytane		113
Olefins		115
Hopanes		191
Steranes		217
Benzene	B	78
Monoalkylbenzenes	C1B	91
Dialkylbenzenes	C2B	91
Trialkylbenzenes	C3B	105
Tetraalkylbenzenes	C4B	119
Pentaalkylbenzenes	C5B	133
Naphthalene	N	128
Monoalkylnaphthalenes	C1N	142
Dialkylnaphthalenes	C2N	156
Trialkylnaphthalenes	C3N	170
Tetraalkylnaphthalenes	C4N	184
Fluorene	F	166
Monoalkylfluorenes	C1F	180
Dialkylfluorenes	C2F	194
Trialkylfluorenes	C3F	208
Phenanthrene, anthracene	PA	178
Monoalkylphenanthrenes and anthracenes	C1PA	192
Dialkylphenanthrenes and anthracenes	C2PA	206
Trialkylphenanthrenes and anthracenes	C3PA	220
Tetraalkylphenanthrenes and anthracenes	C4PA	234
Dibenzothiophene	D	184
Monoalkyldibenzothiophenes	C1D	198
Dialkyldibenzothiophenes	C2D	212
Trialkyldibenzothiophenes	C3D	226
Fluoranthene, pyrene	FP	202
Monoalkylfluoranthenes and pyrenes	C1FP	216
Dialkylfluoranthenes and pyrenes	C2FP	230
Trialkylfluoranthenes and pyrenes	C3FP	244
Benz(a)anthracene, chrysene	BC	228
Monoalkylbenz(a)anthracenes and chrysenes	C1BC	242
Dialkylbenz(a)anthracenes and chrysenes	C2BC	256
Trialkylbenz(a)anthracenes and chrysenes	C3BC	270
Tetraalkylbenz(a)anthracenes and chrysenes	C4BC	284

Field ID: T10-1
Lab ID: GT020924-01 1:10
File: G:\1\DATA\021014\14OCT18.D
Acquired: 15 Oct 2002 7:15 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC



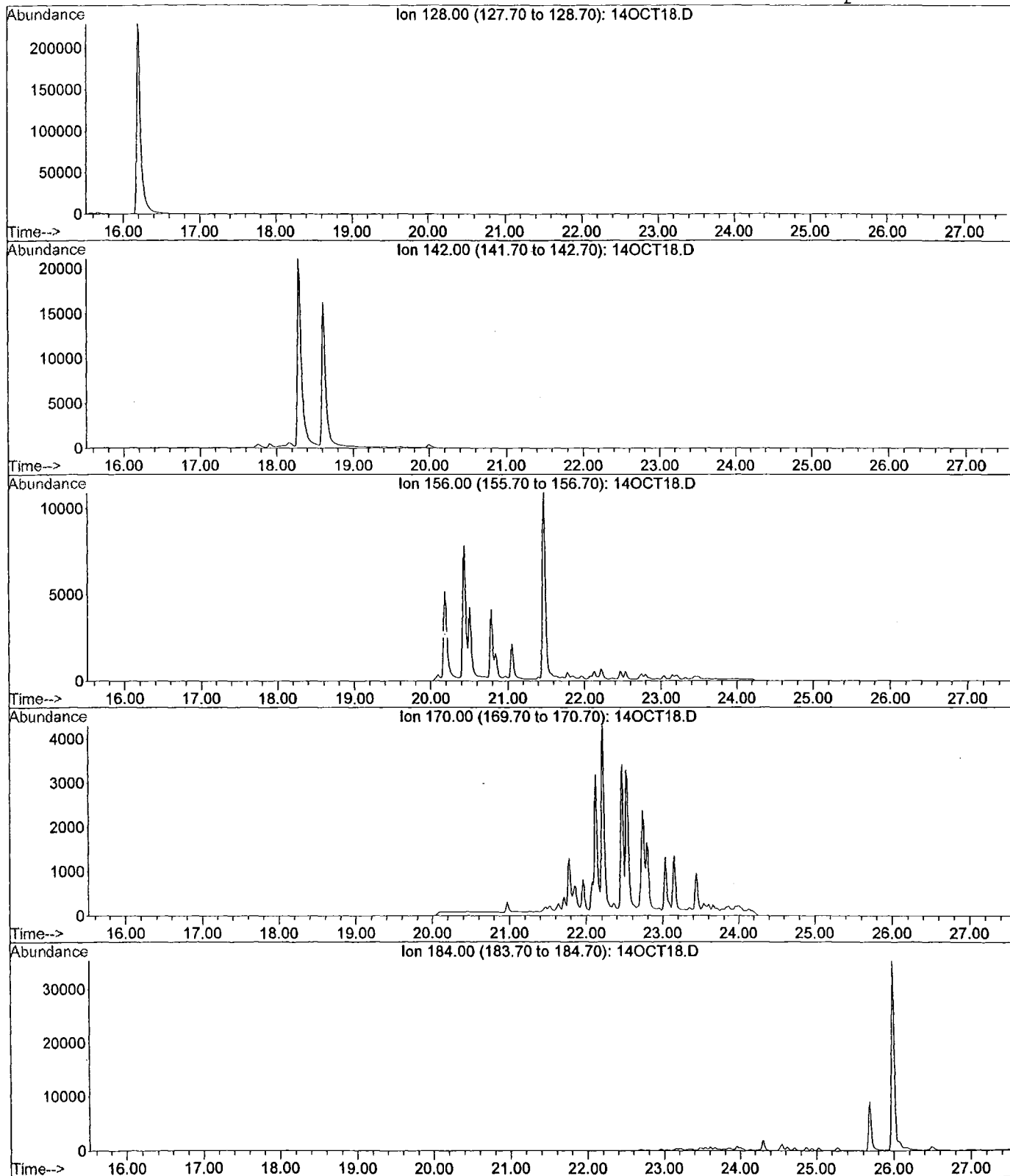
Field ID: T10-1
Lab ID: GT020924-01 1:10
File: G:\1\DATA\021014\14OCT18.D
Acquired: 15 Oct 2002 7:15 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Benzenes



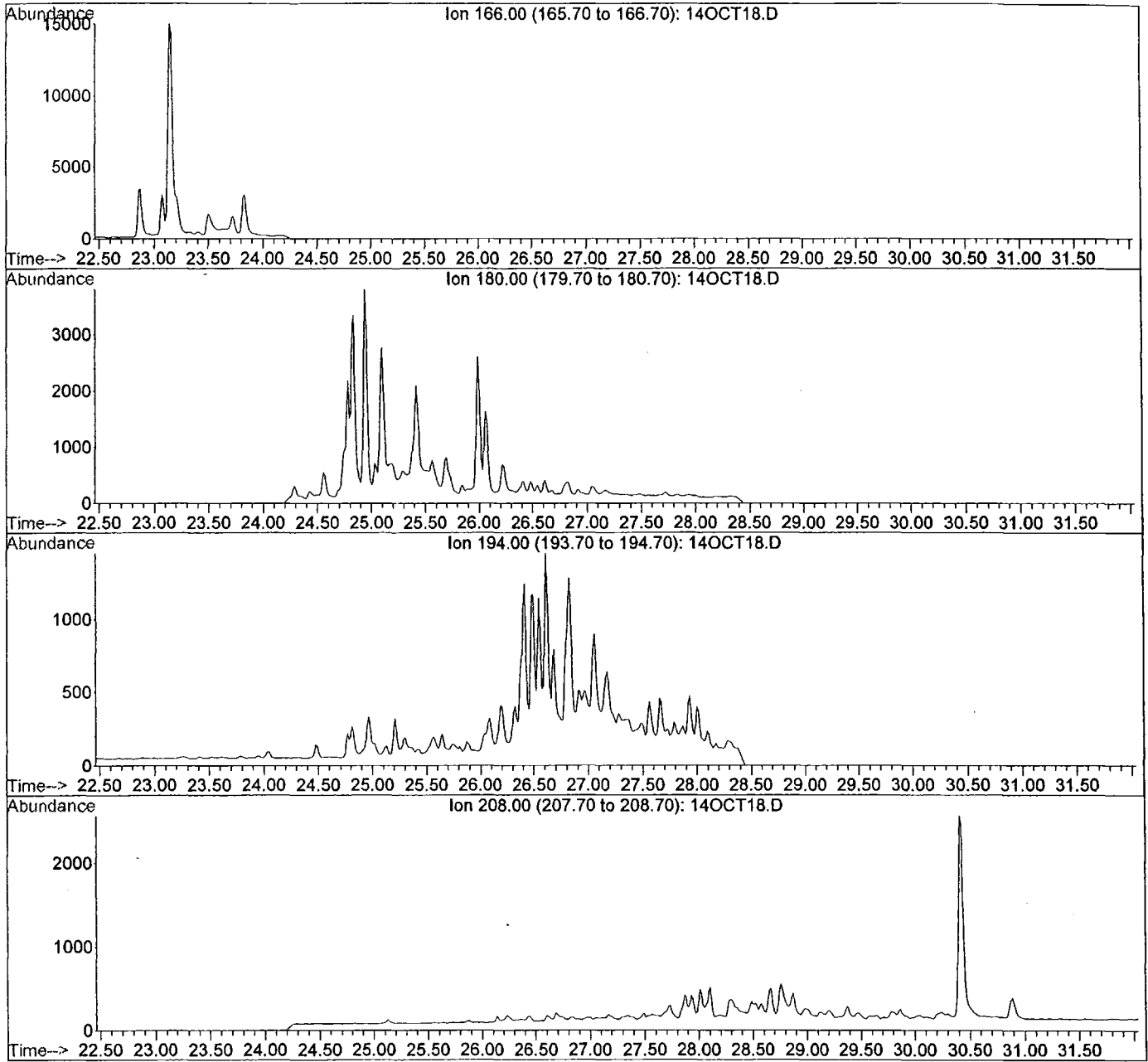
Field ID: T10-1
Lab ID: GT020924-01 1:10
File: G:\1\DATA\021014\14OCT18.D
Acquired: 15 Oct 2002 7:15 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Naphthalenes



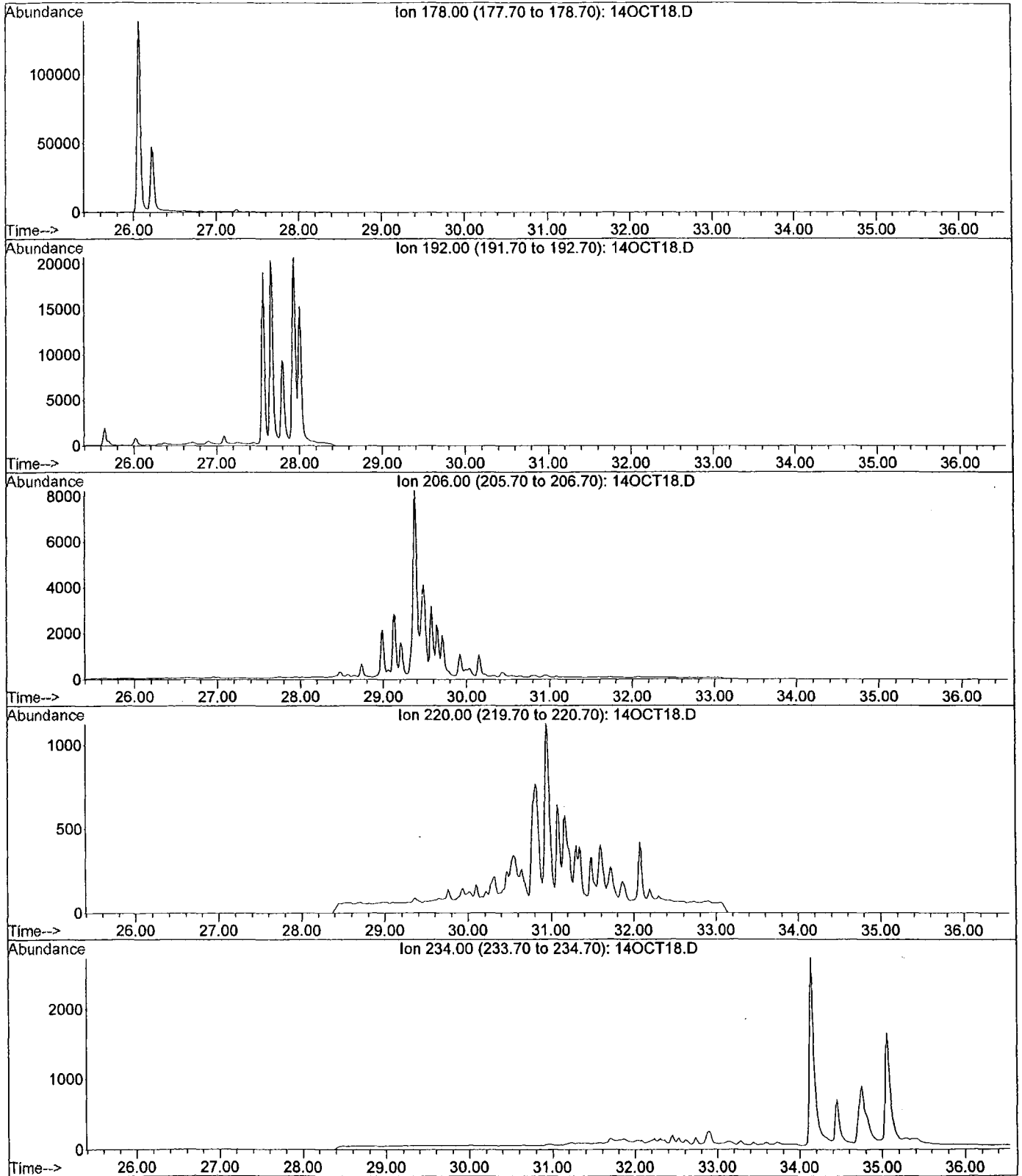
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Lab ID: GT020924-01 1:10
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Acquired: 15 Oct 2002 7:15 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Fluorenes



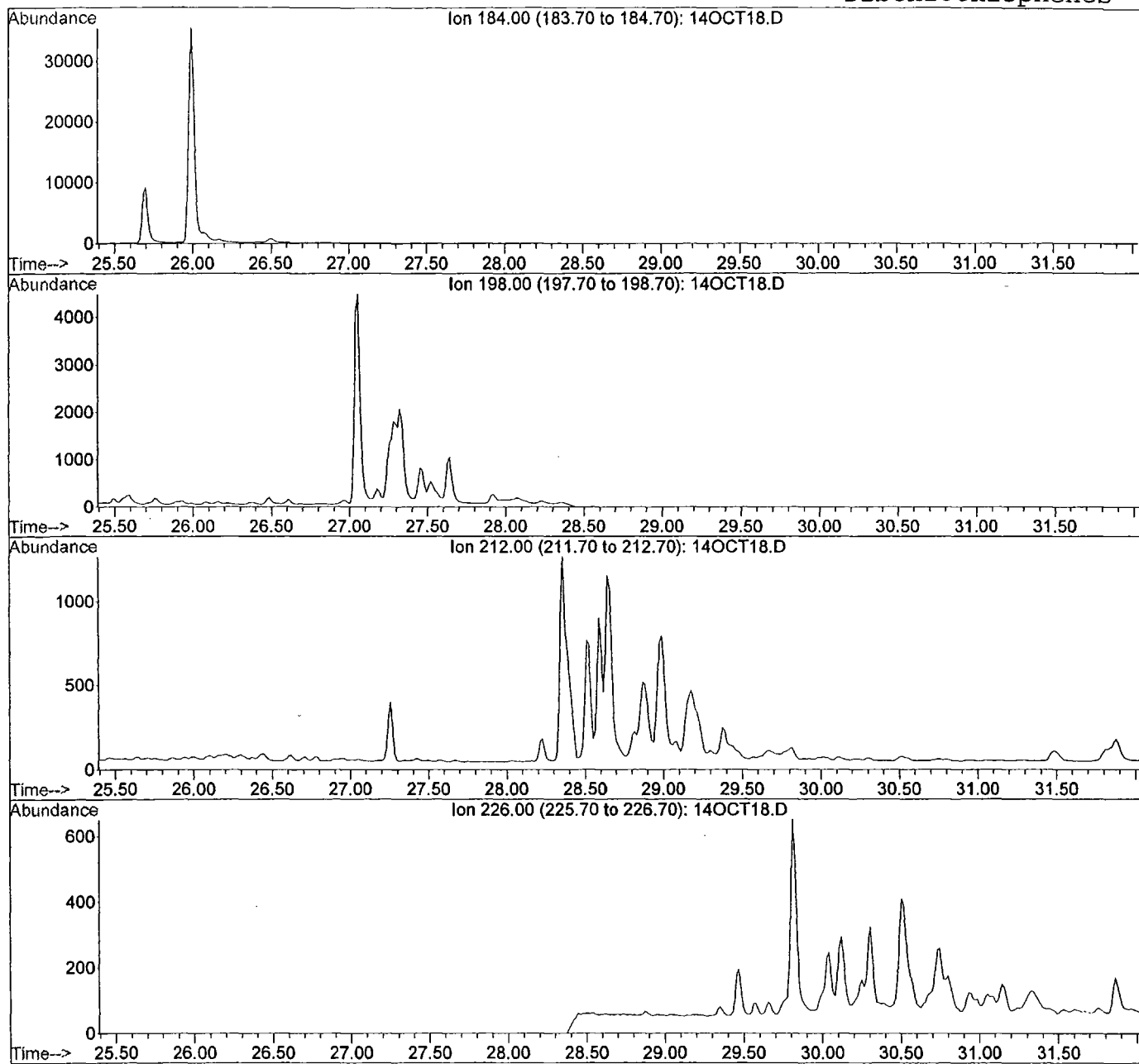
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Lab ID: GT020924-01 1:10
File: G:\1\DATA\021014\14OCT18.D
Acquired: 15 Oct 2002 7:15 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Phenanthrenes/Anthracenes



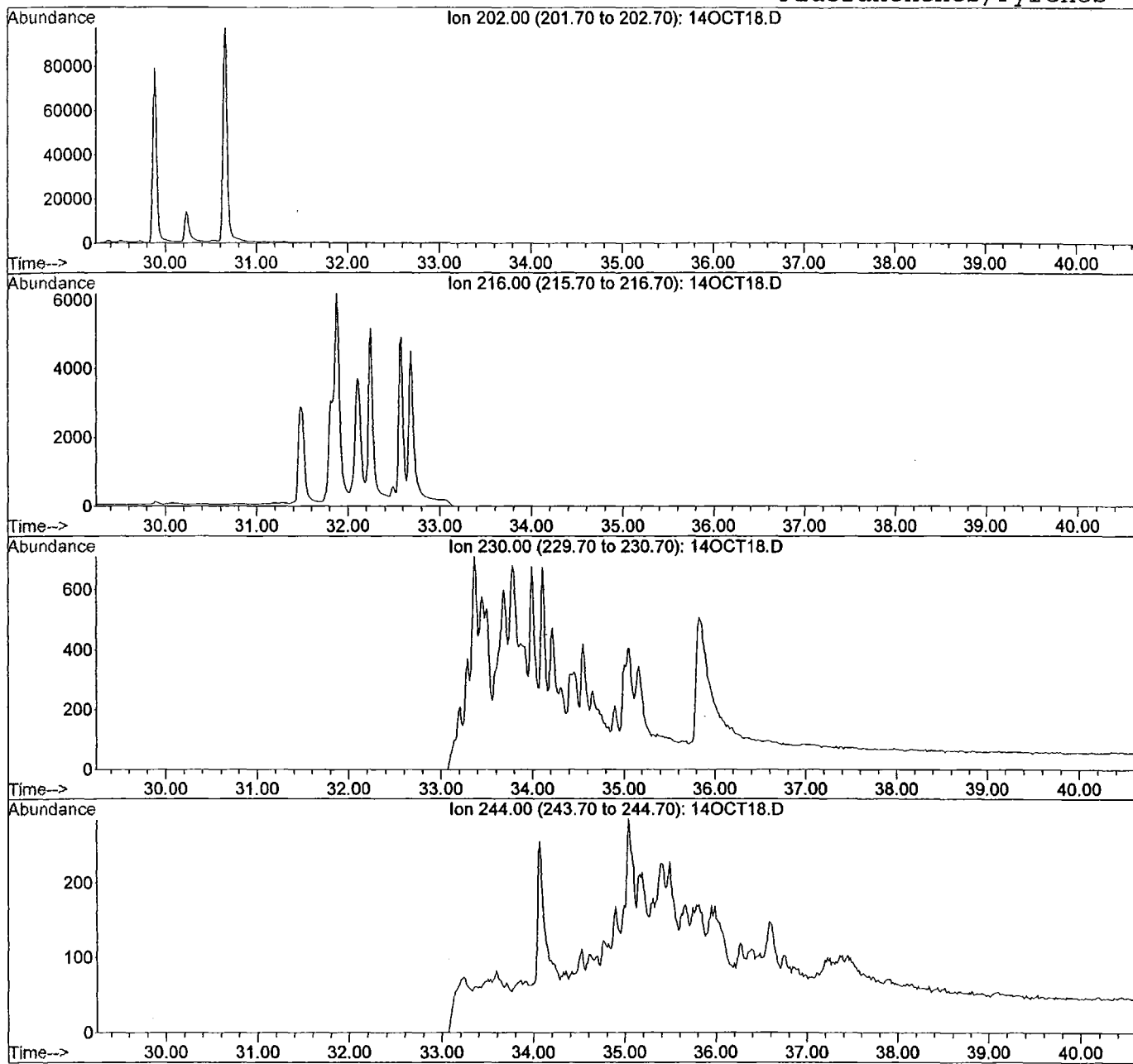
Field ID: T10-1
Lab ID: GT020924-01 1:10
File: G:\1\DATA\021014\14OCT18.D
Acquired: 15 Oct 2002 7:15 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Dibenzothiophenes



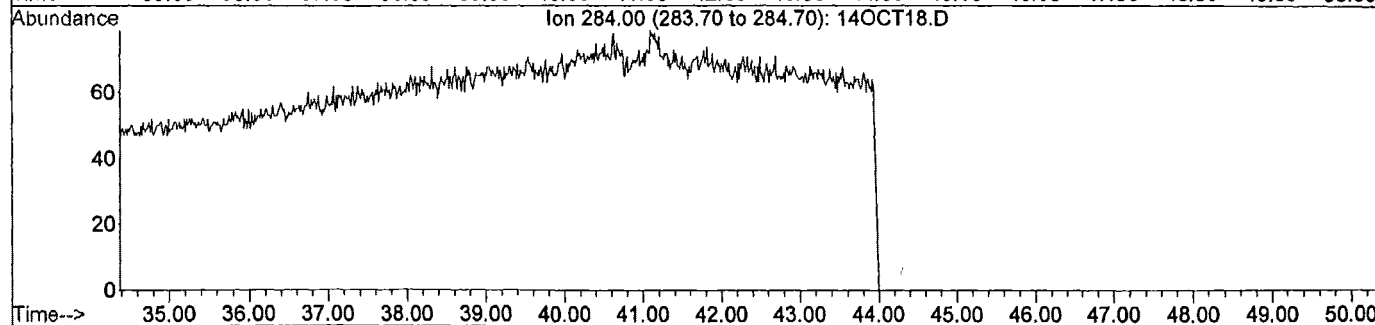
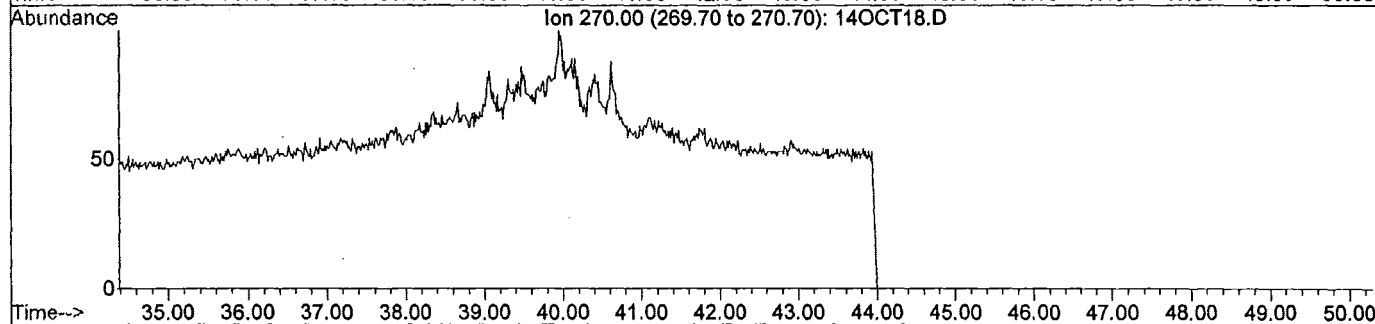
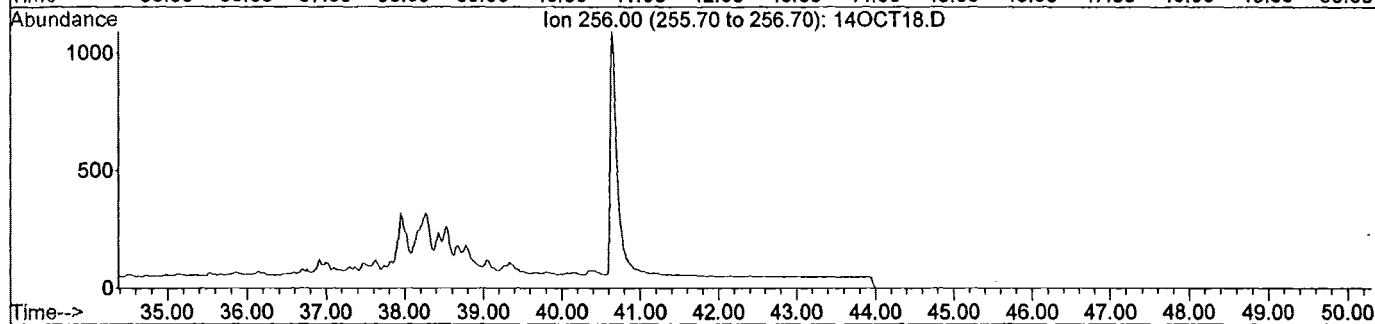
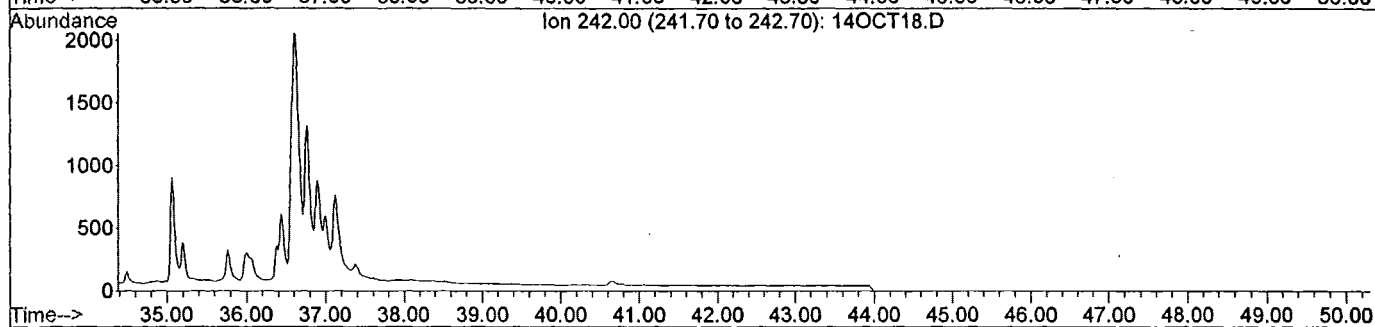
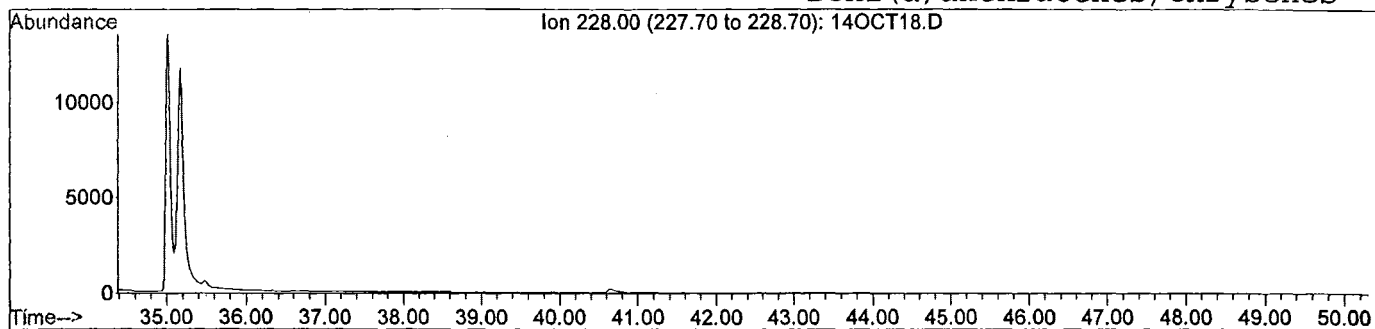
Field ID: T10-1
Lab ID: GT020924-01 1:10
File: G:\1\DATA\021014\14OCT18.D
Acquired: 15 Oct 2002 7:15 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Fluoranthenes/Pyrenes

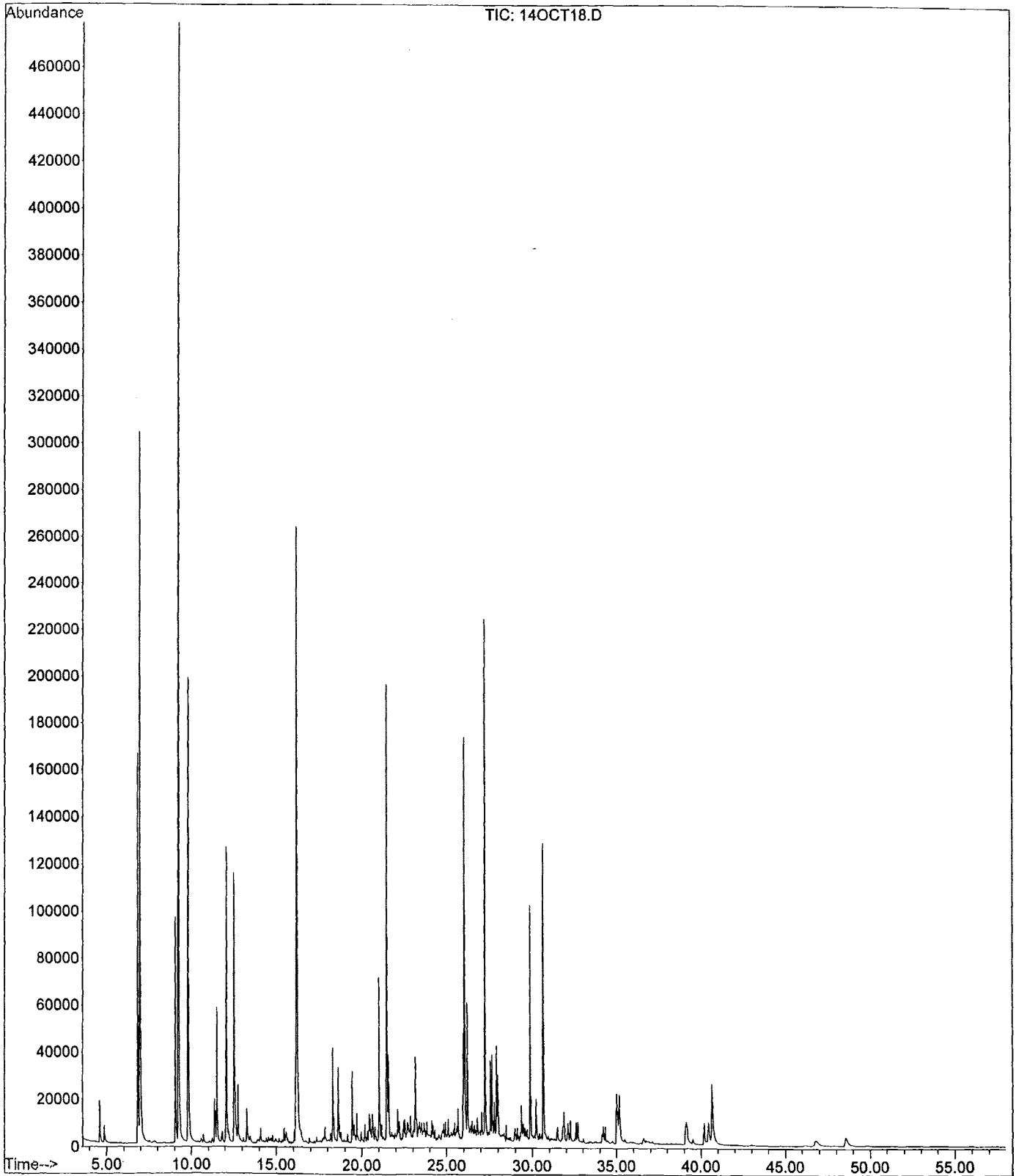


Field ID: T10-1
Lab ID: GT020924-01 1:10
File: G:\1\DATA\021014\14OCT18.D
Acquired: 15 Oct 2002 7:15 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

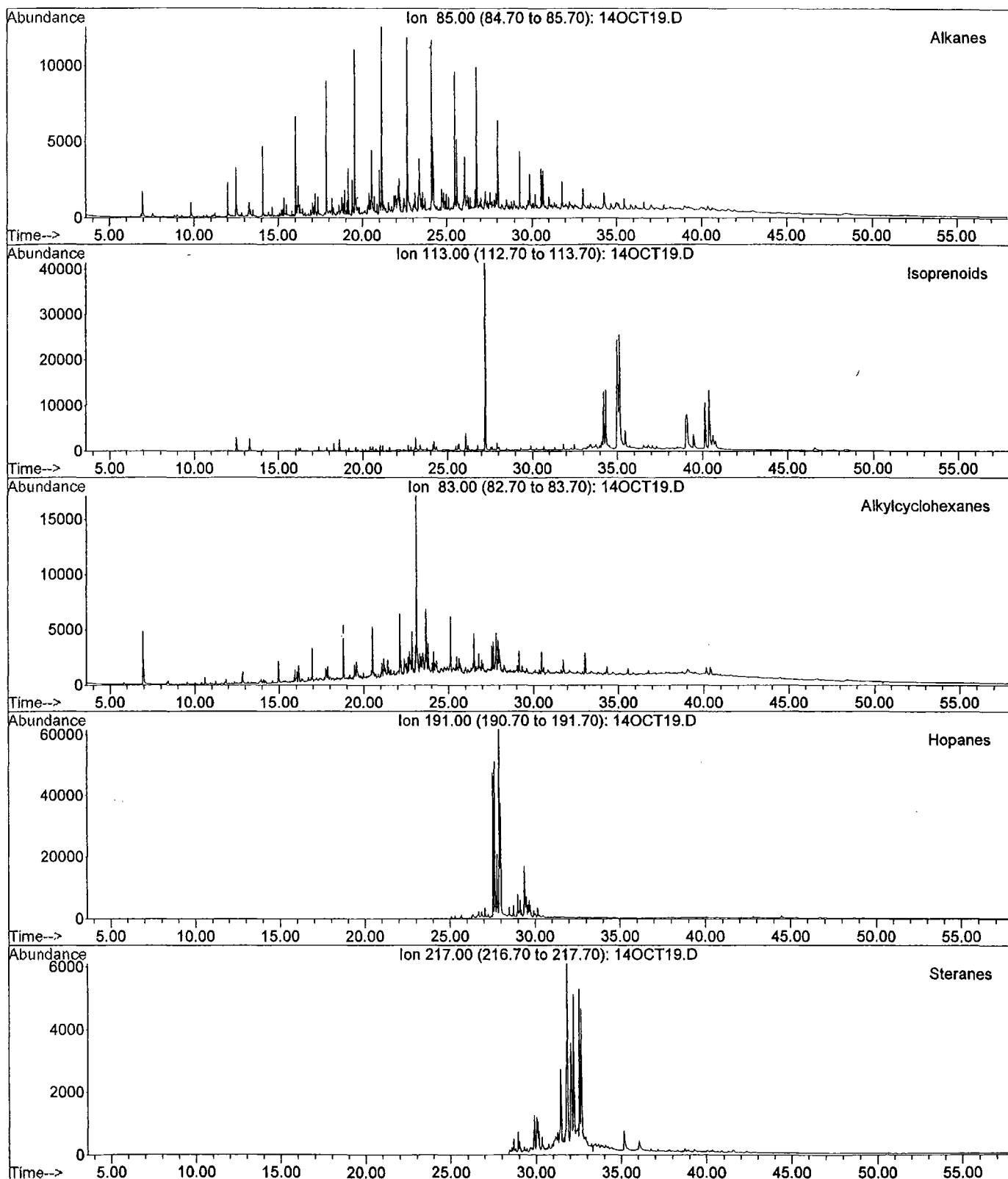
Benz (a) anthracenes/Chrysenes



Field ID: T10-1
Lab ID: GT020924-01 1:10
File: G:\1\DATA\021014\14OCT18.D
Acquired: 15 Oct 2002 7:15 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

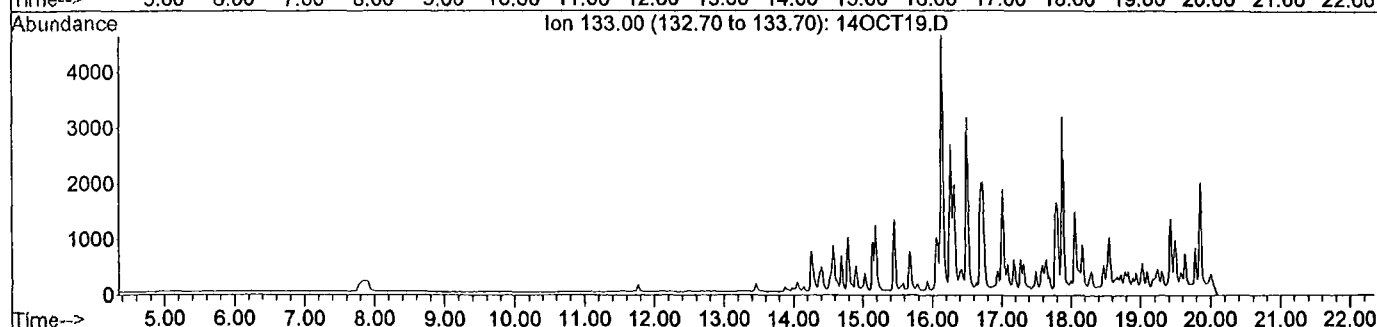
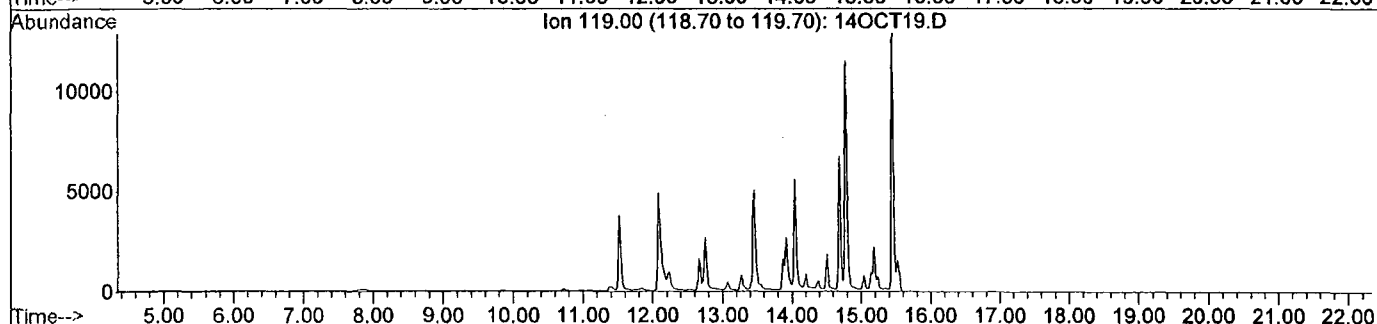
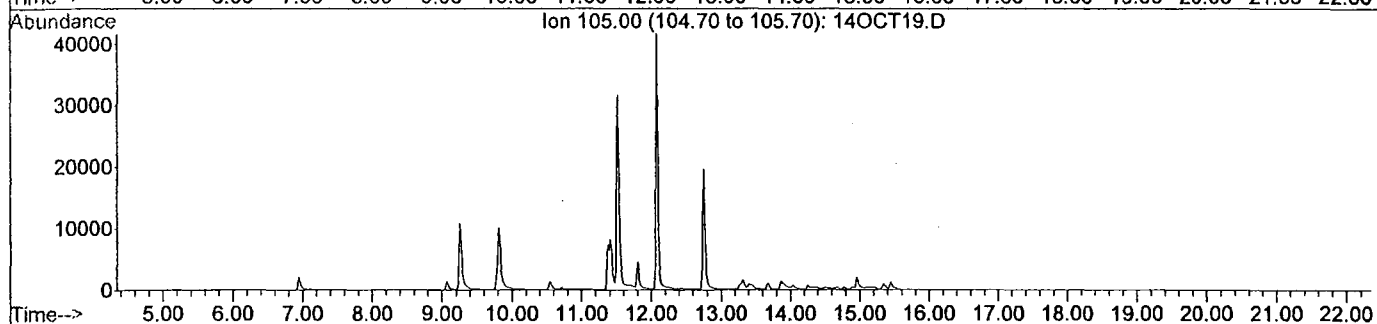
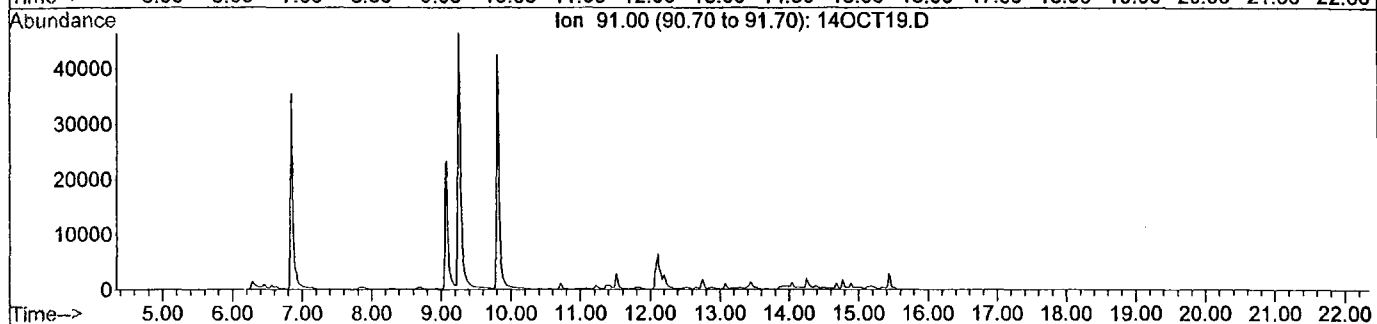
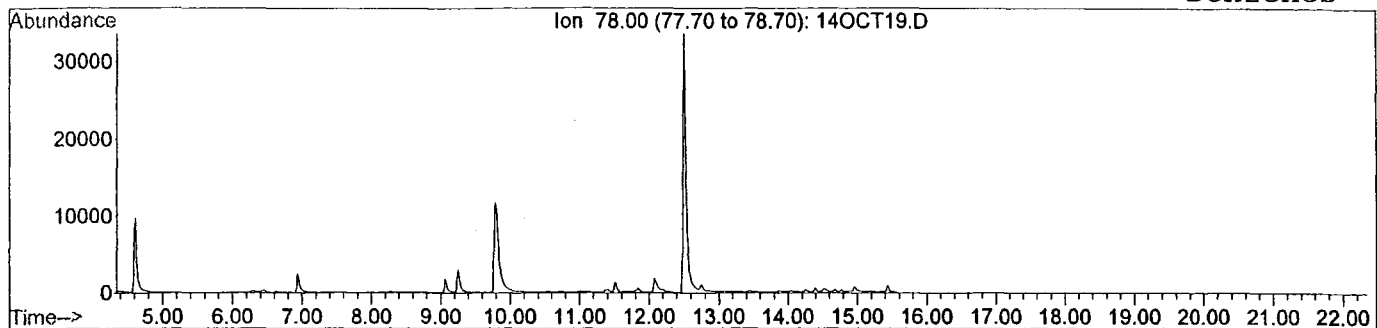


Field ID: T10-2
Lab ID: GT020924-02 1:10
File: G:\1\DATA\021014\14OCT19.D
Acquired: 15 Oct 2002 8:26 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC



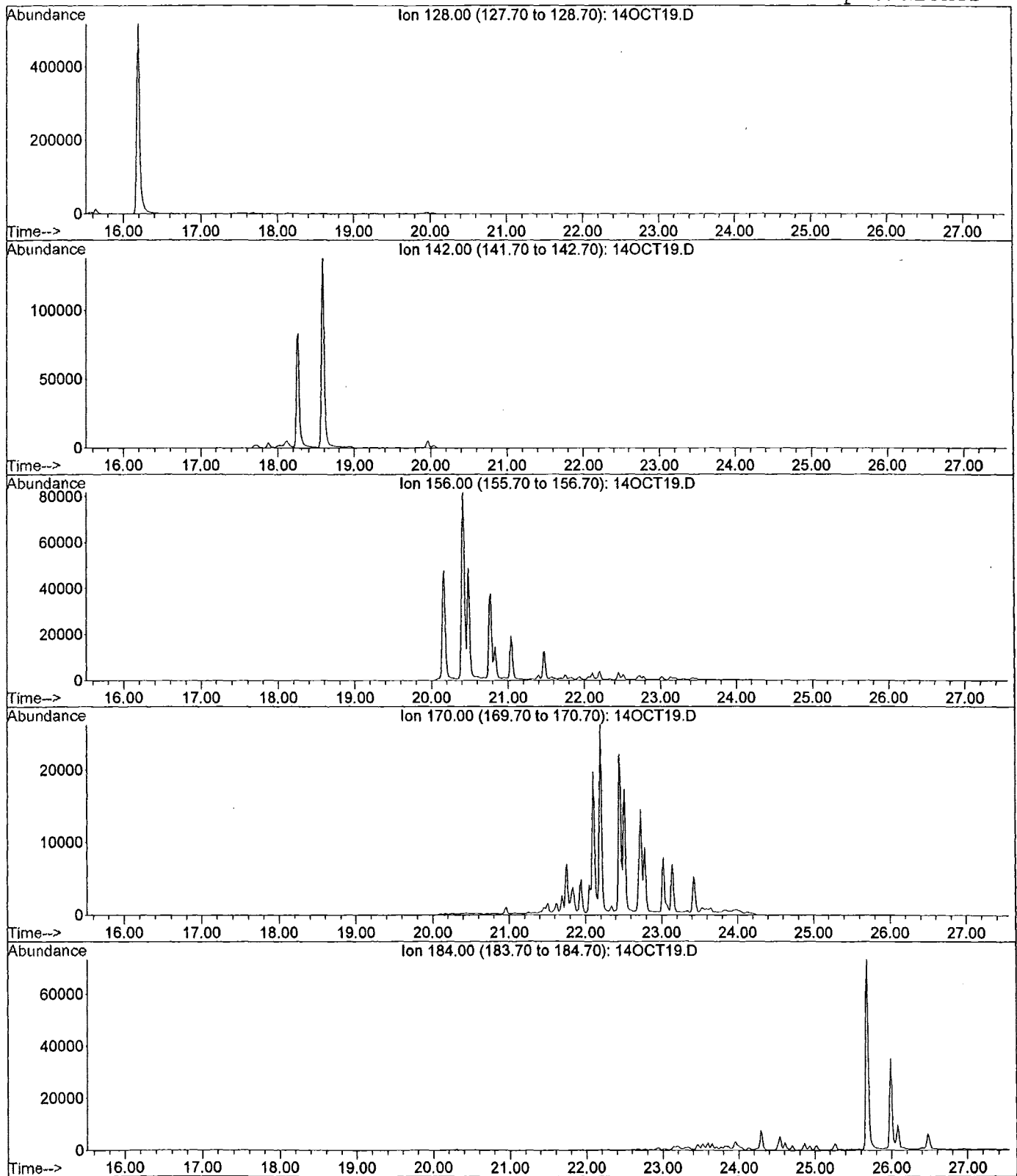
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Lab ID: GT020924-02 1:10
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Instrument: GC/MS Ins Operator: ECC

Benzenes



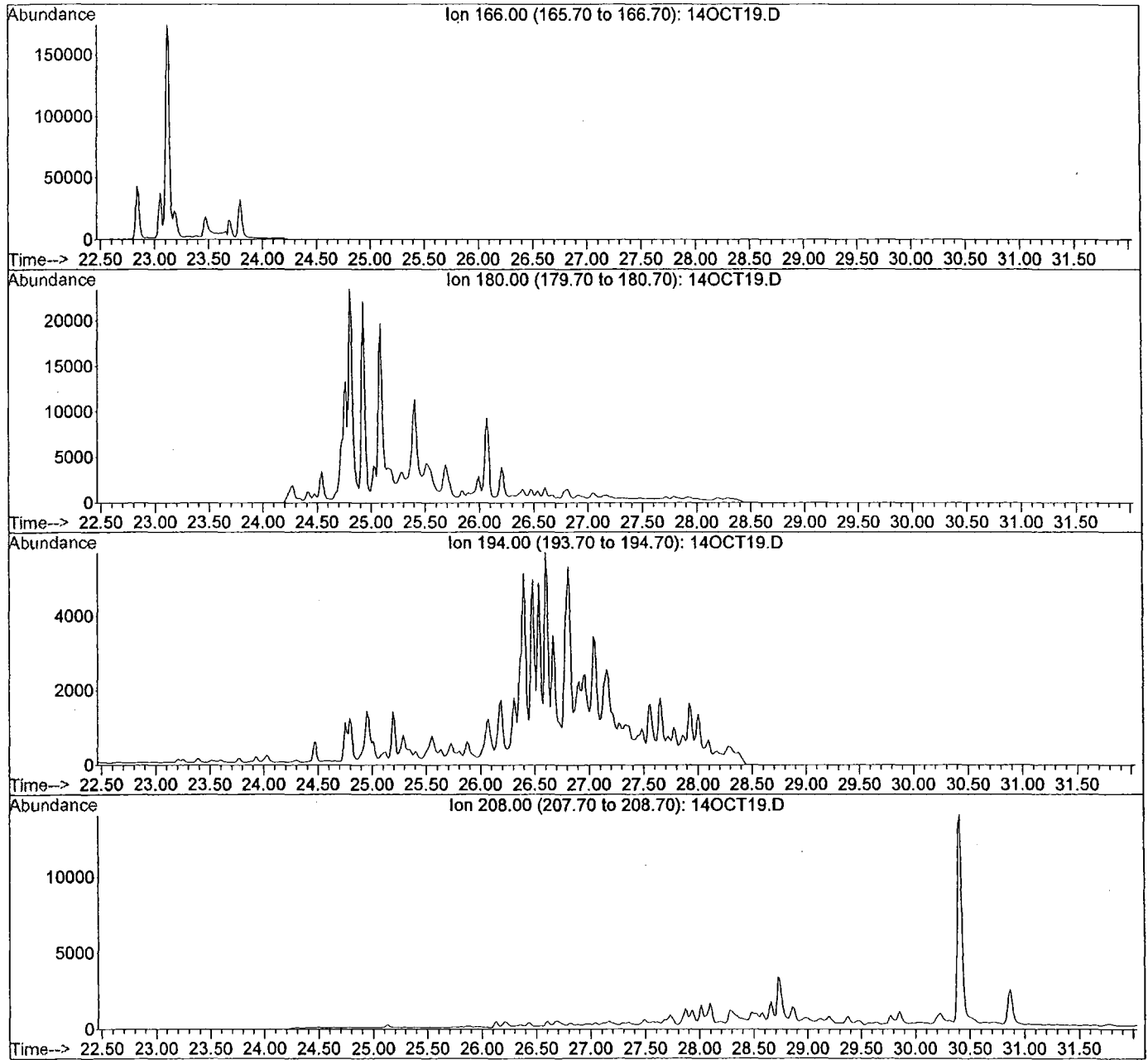
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Lab ID: GT020924-02 1:10
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Instrument: GC/MS Ins Operator: ECC

Naphthalenes



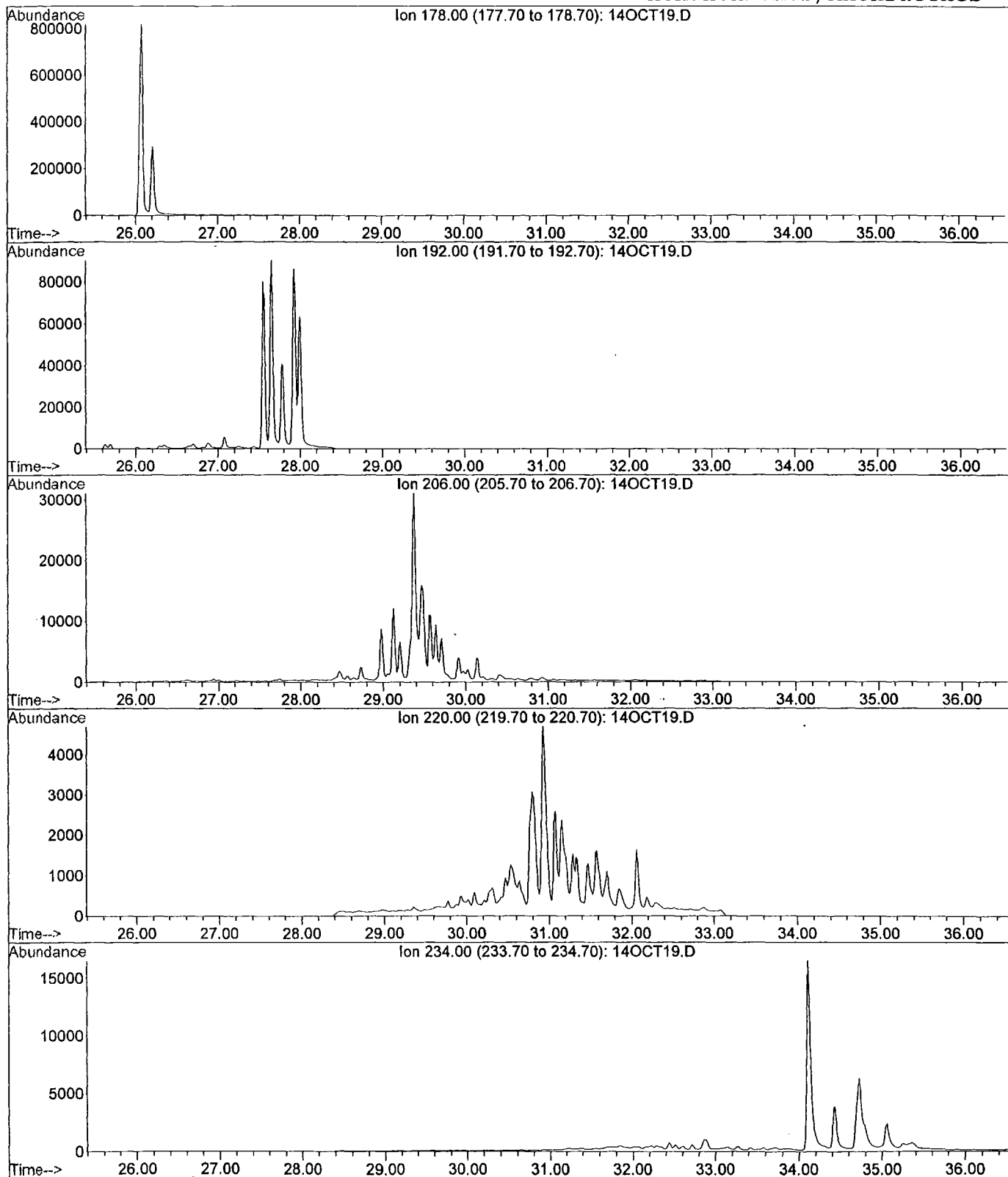
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Lab ID: GT020924-02 1:10
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Instrument: GC/MS Ins Operator: ECC

Fluorenes



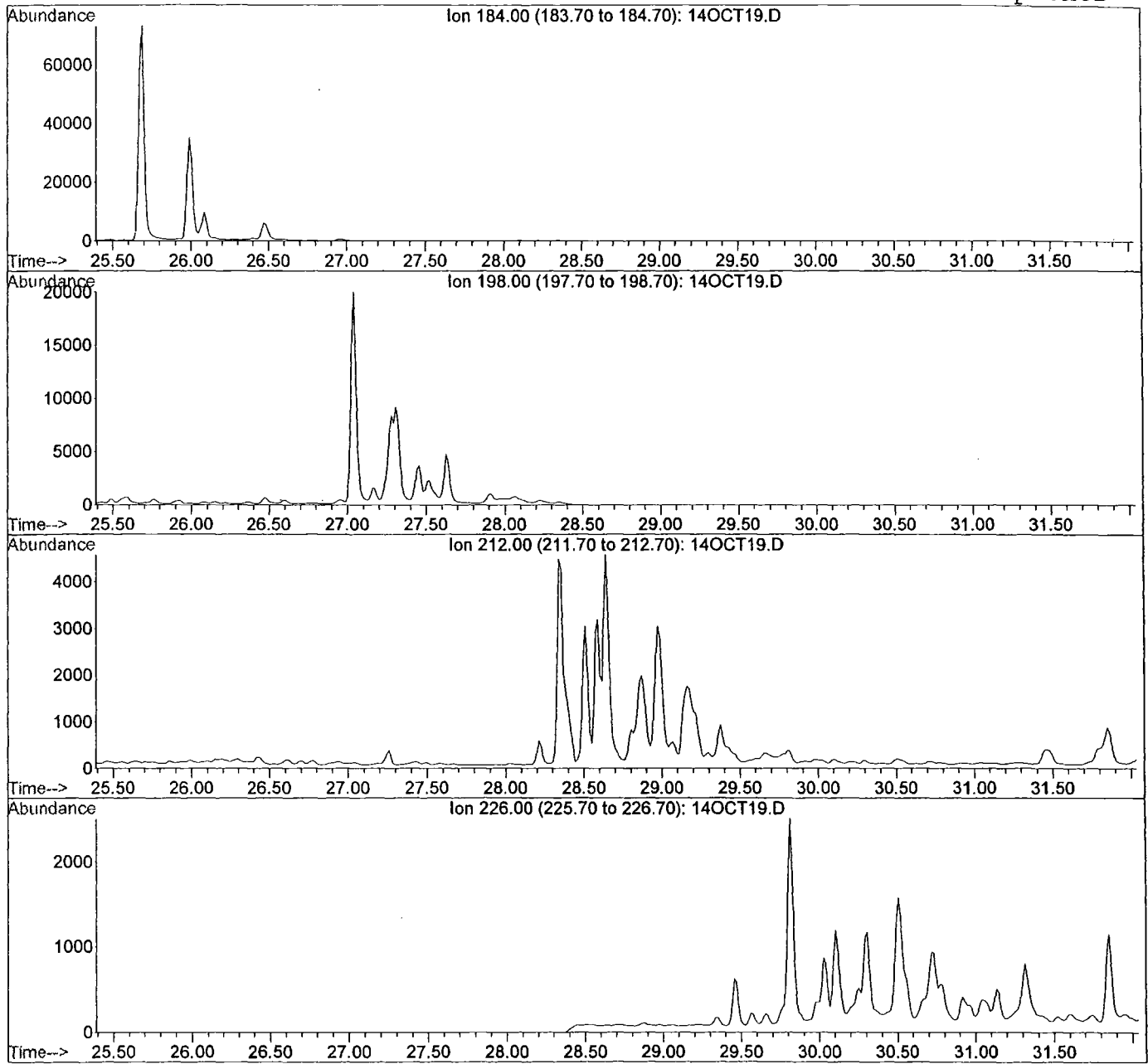
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Lab ID: GT020924-02 1:10
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Acquired: 15 Oct 2002 8:26 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Phenanthrenes/Anthracenes



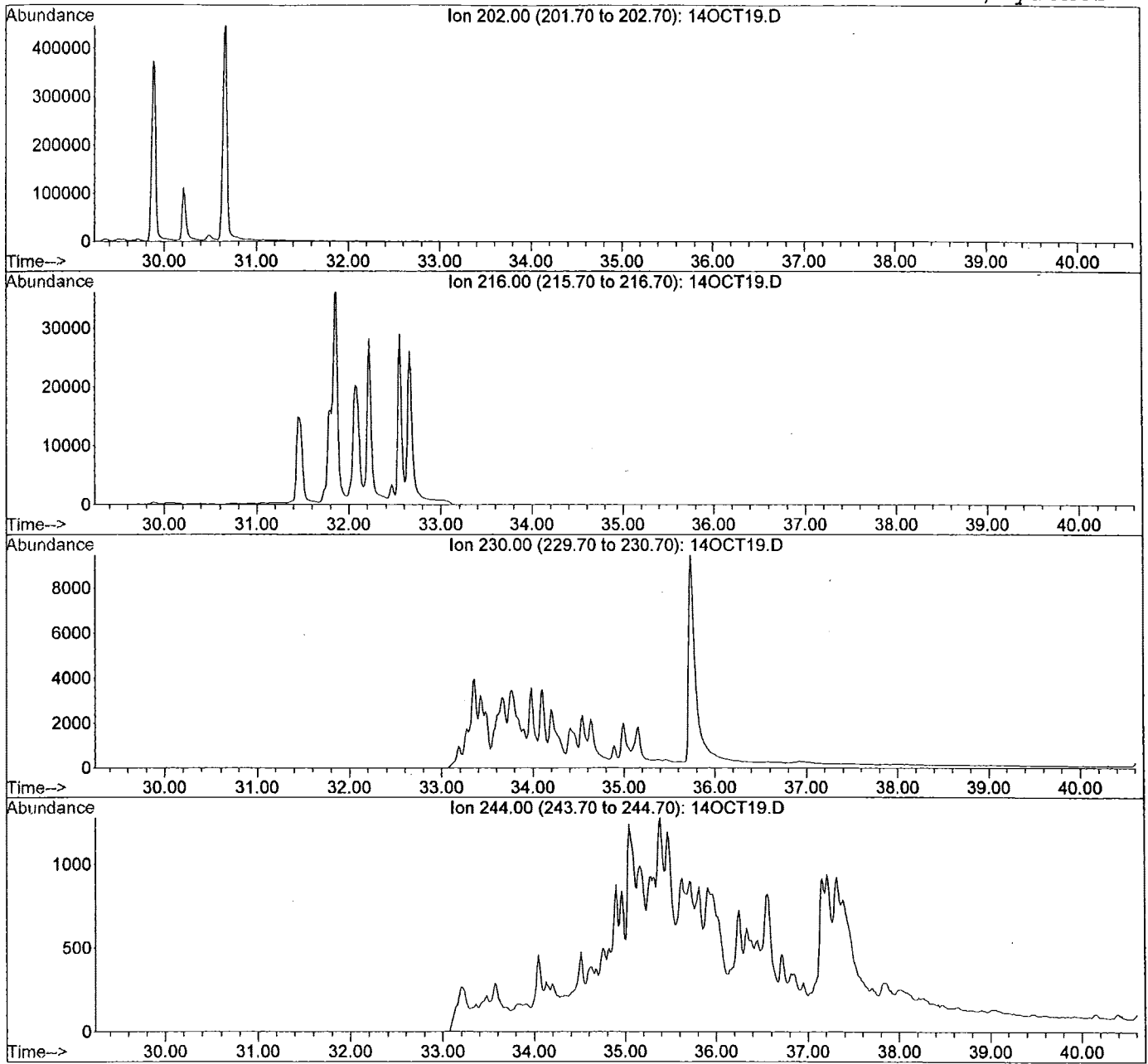
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Lab ID: GT020924-02 1:10
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Acquired: 15 Oct 2002 8:26 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Dibenzothiophenes



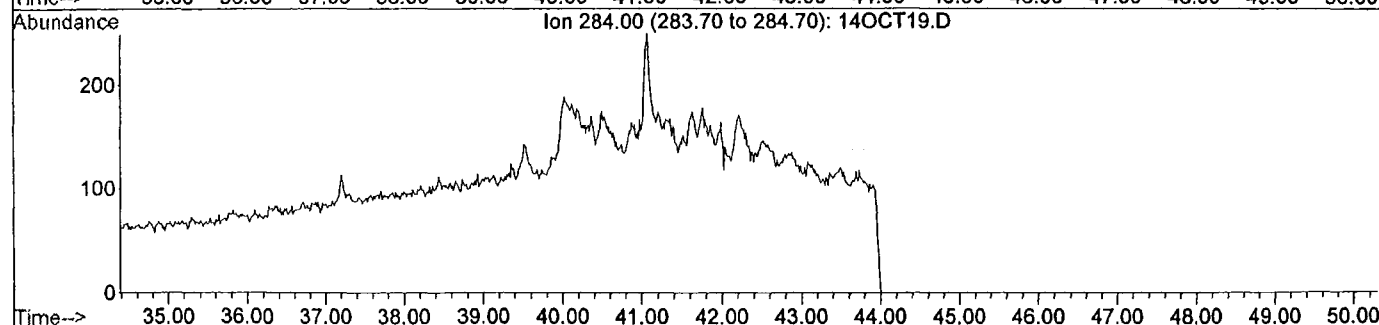
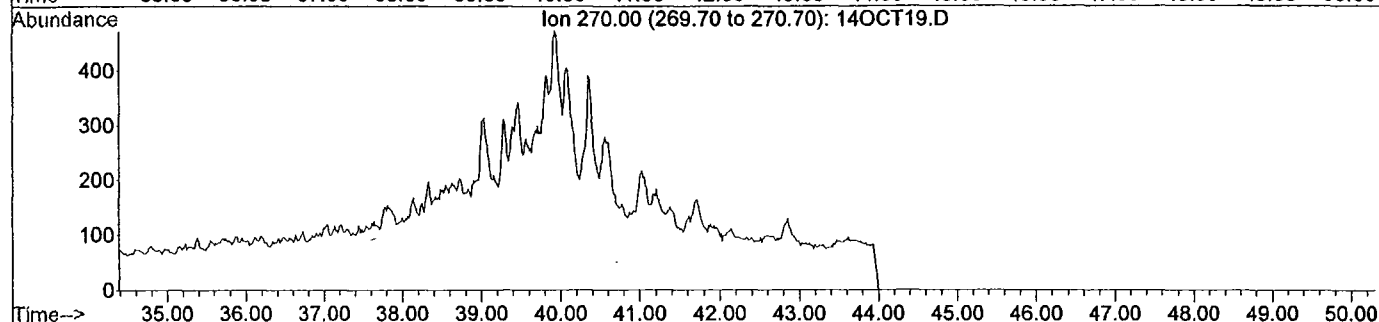
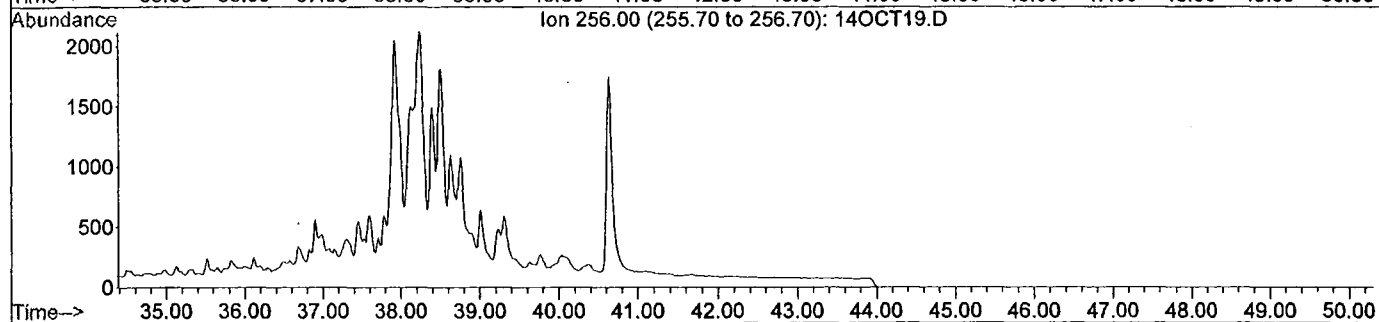
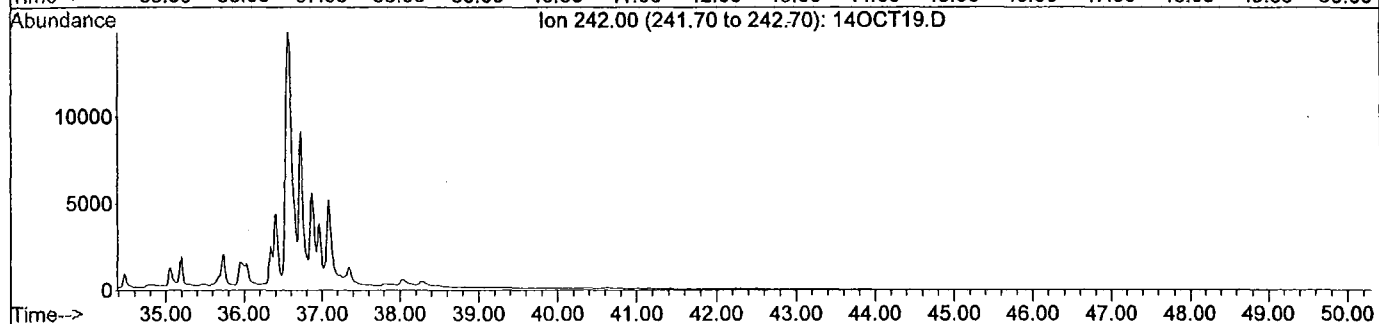
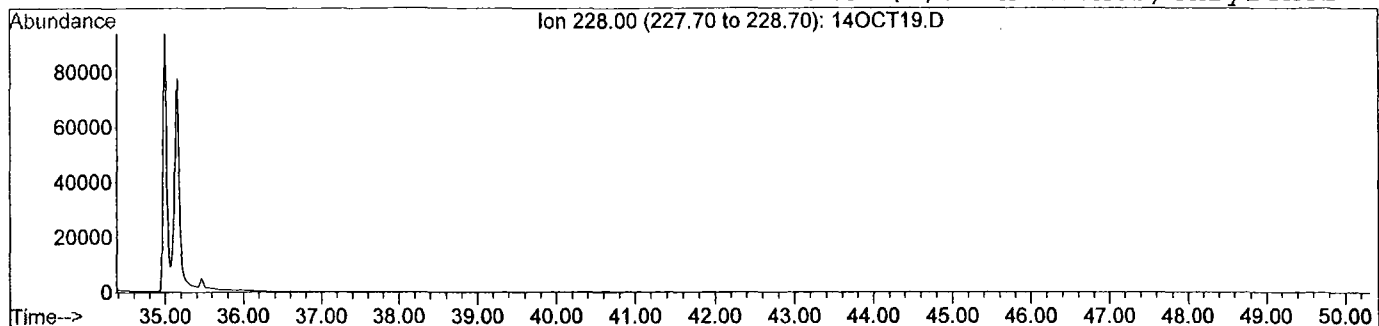
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Lab ID: GT020924-02 1:10
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Instrument: GC/MS Ins Operator: ECC

Fluoranthenes/Pyrenes

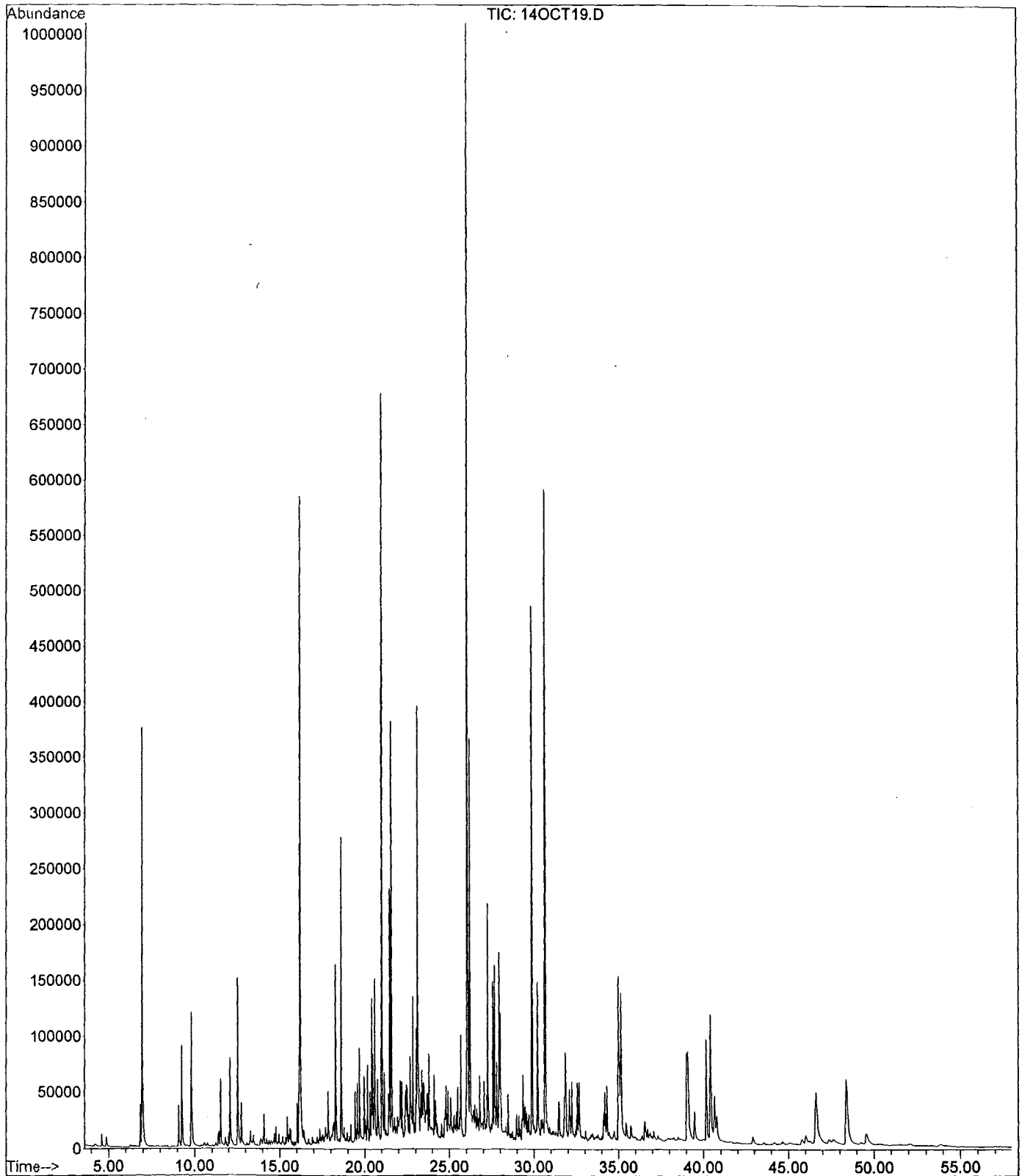


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Lab ID: GT020924-02 1:10
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Instrument: GC/MS Ins Operator: ECC

Benz (a) anthracenes/Chrysenes

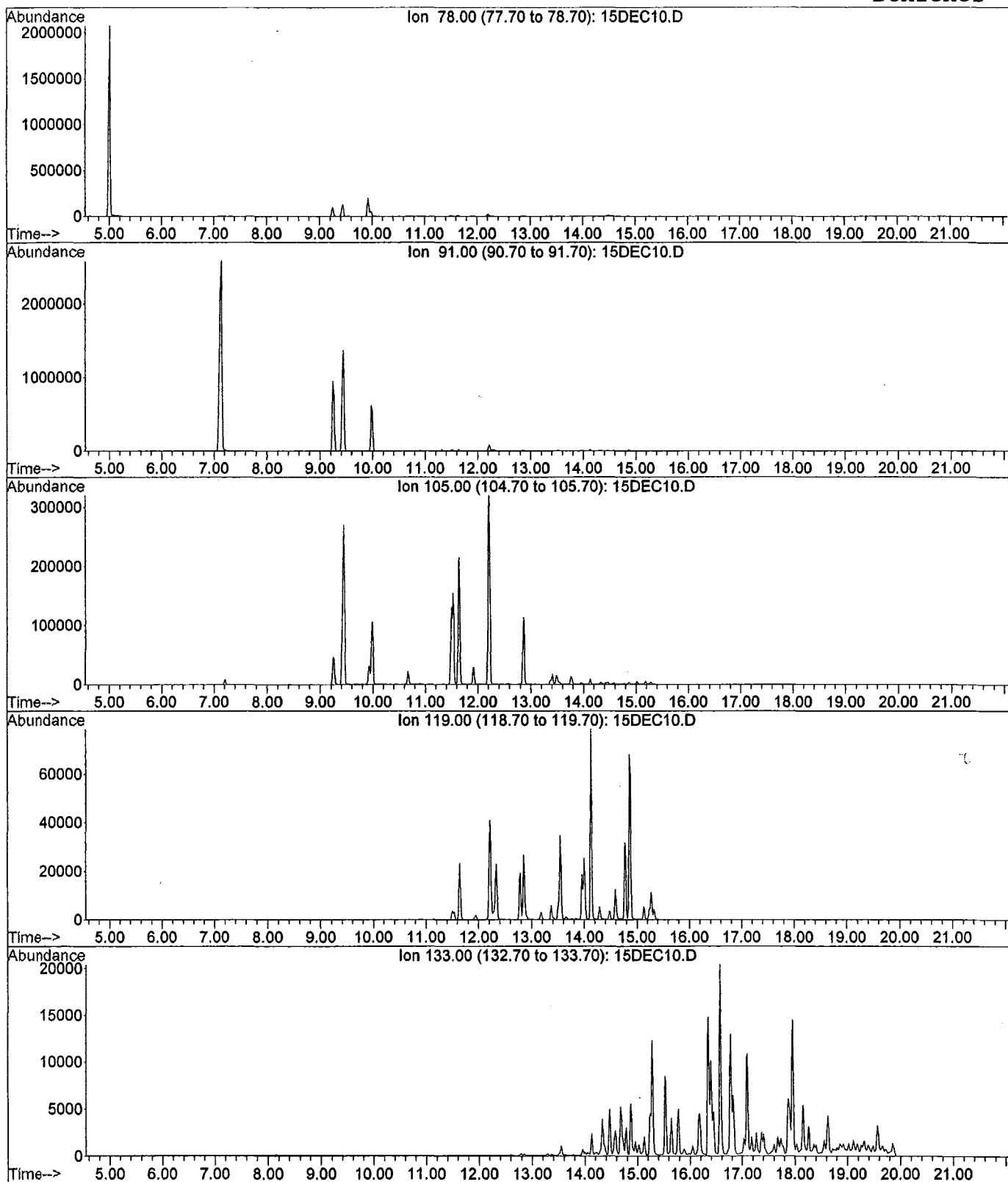


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Instrument: GC/MS Ins Operator: ECC



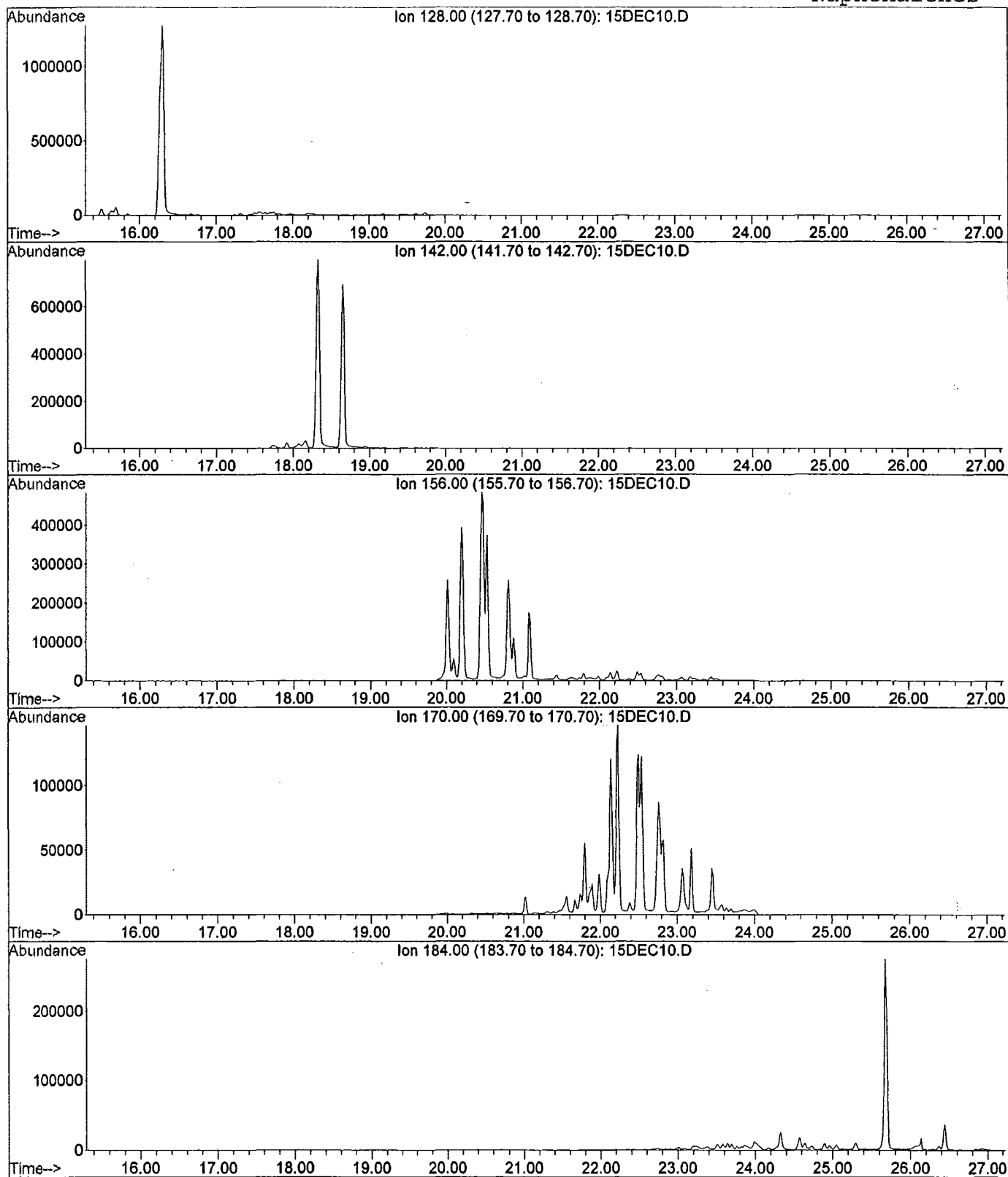
Field ID: T10-3
Lab ID: GT021121-01 1/10
File: I:\4\DATA\021215\15DEC10.D
Acquired: 16 Dec 2002 12:10 am using AcqMethod MET4008
Instrument: GC4-MS_59 Operator: DRC

Benzenes



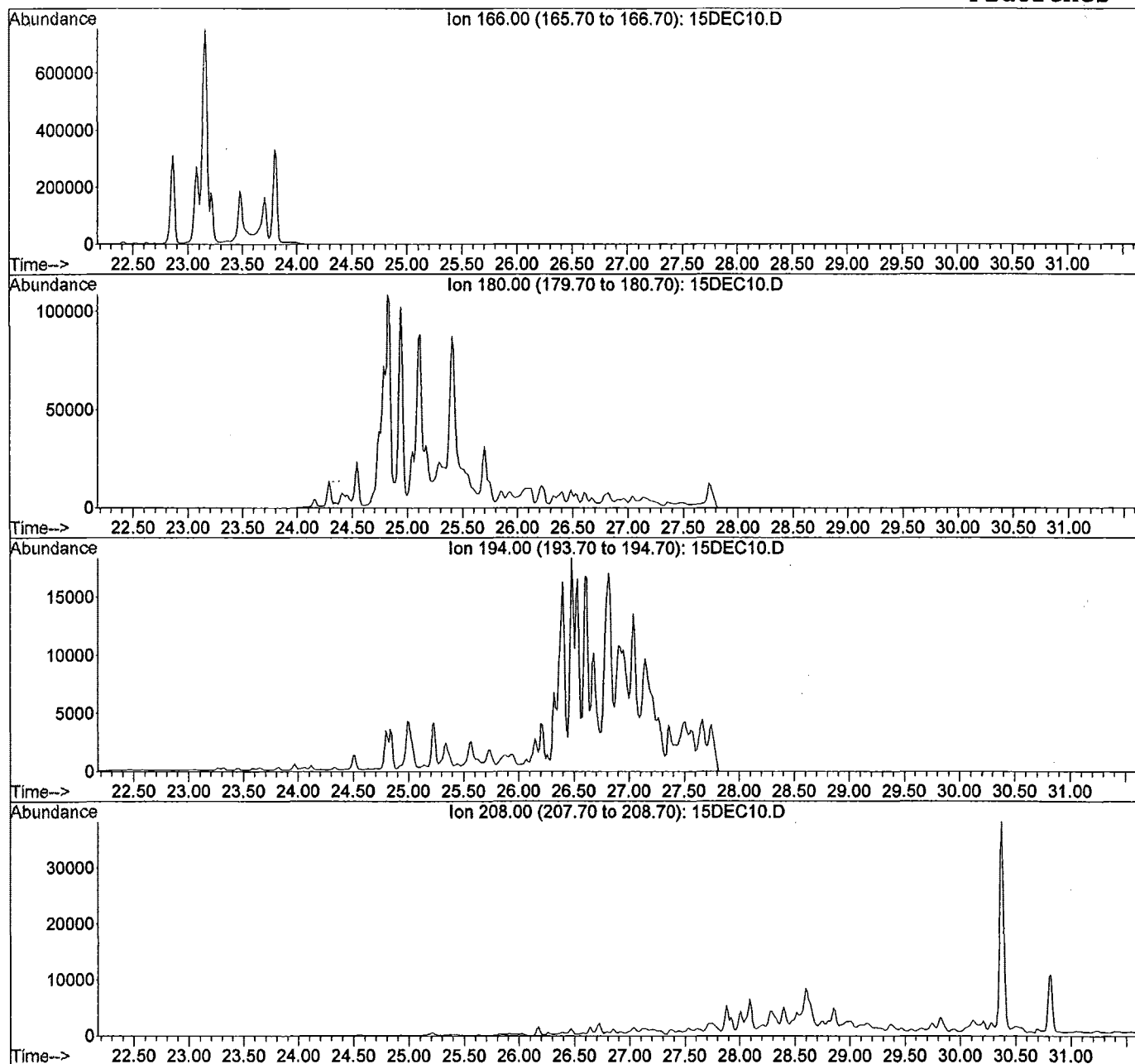
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Lab ID: GT021121-01 1/10
File: I:\4\DATA\021215\15DEC10.D
Acquired: 16 Dec 2002 12:10 am using AcqMethod MET4008
Instrument: GC4-MS_59 Operator: DRC

Naphthalenes



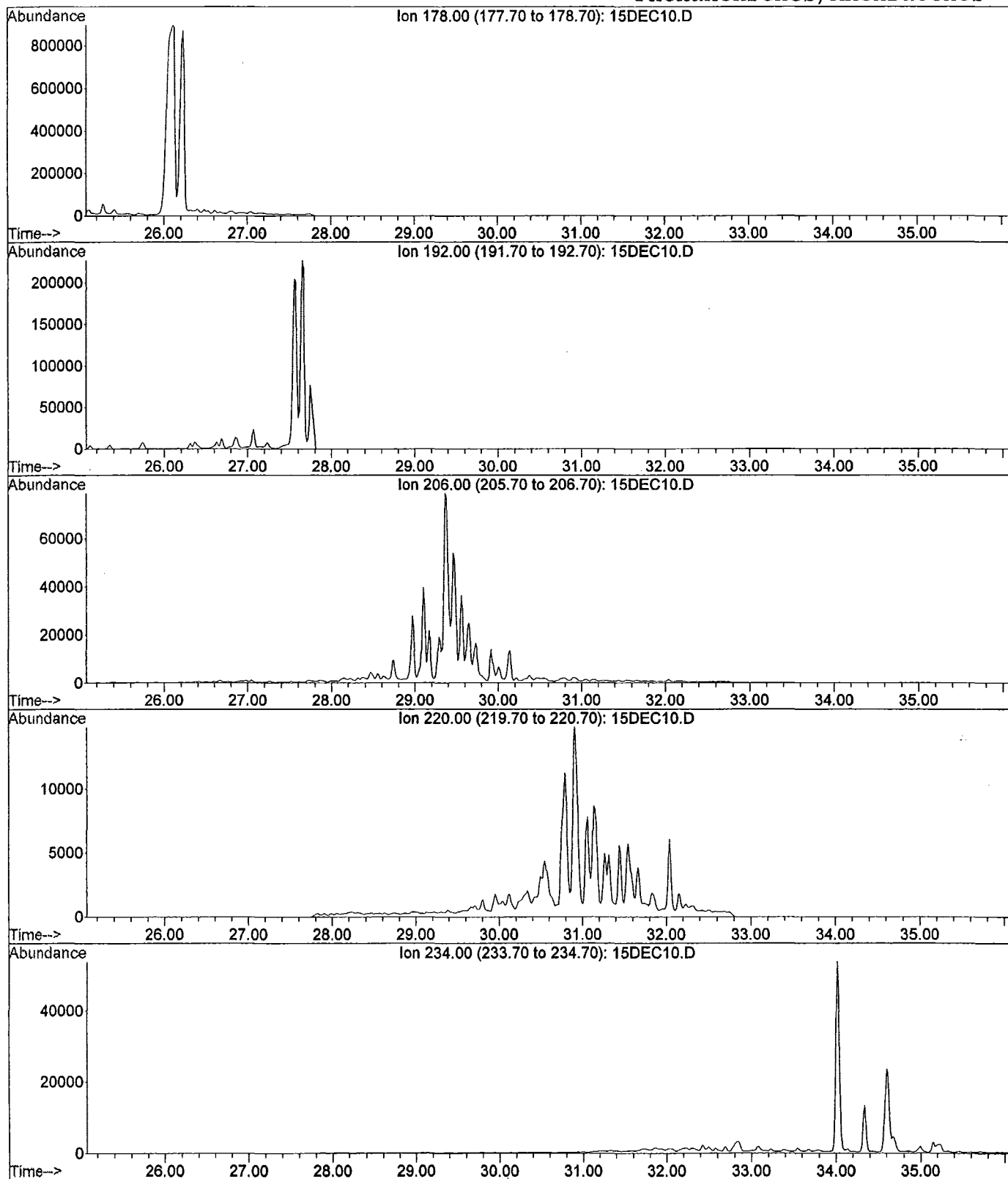
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Lab ID: GT021121-01 1/10
File: I:\4\DATA\021215\15DEC10.D
Acquired: 16 Dec 2002 12:10 am using AcqMethod MET4008
Instrument: GC4-MS_59 Operator: DRC

Fluorenes



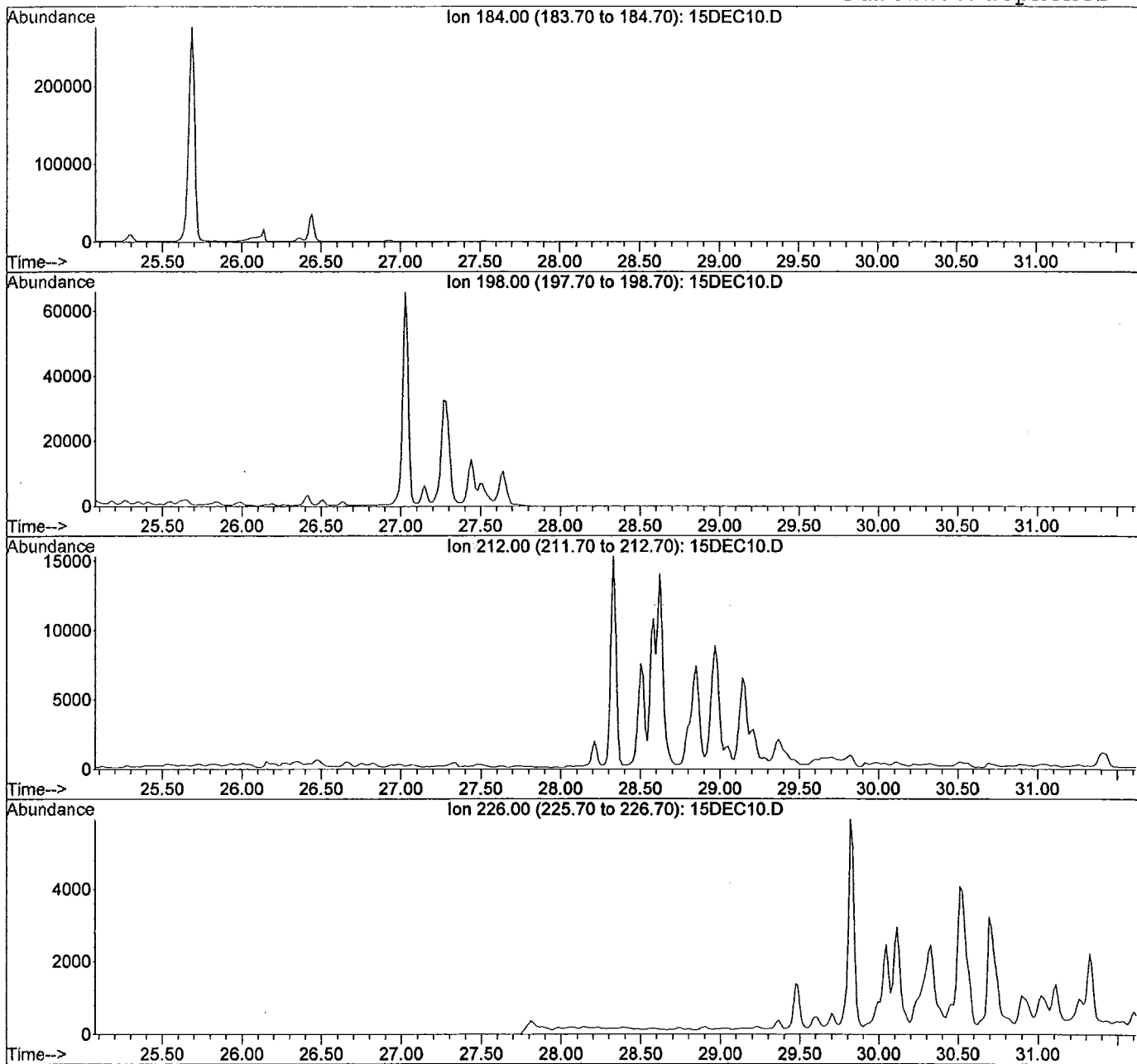
Field ID: T10-3
Lab ID: GT021121-01 1/10
File: I:\4\DATA\021215\15DEC10.D
Acquired: 16 Dec 2002 12:10 am using AcqMethod MET4008
Instrument: GC4-MS_59 Operator: DRC

Phenanthrenes/Anthracenes



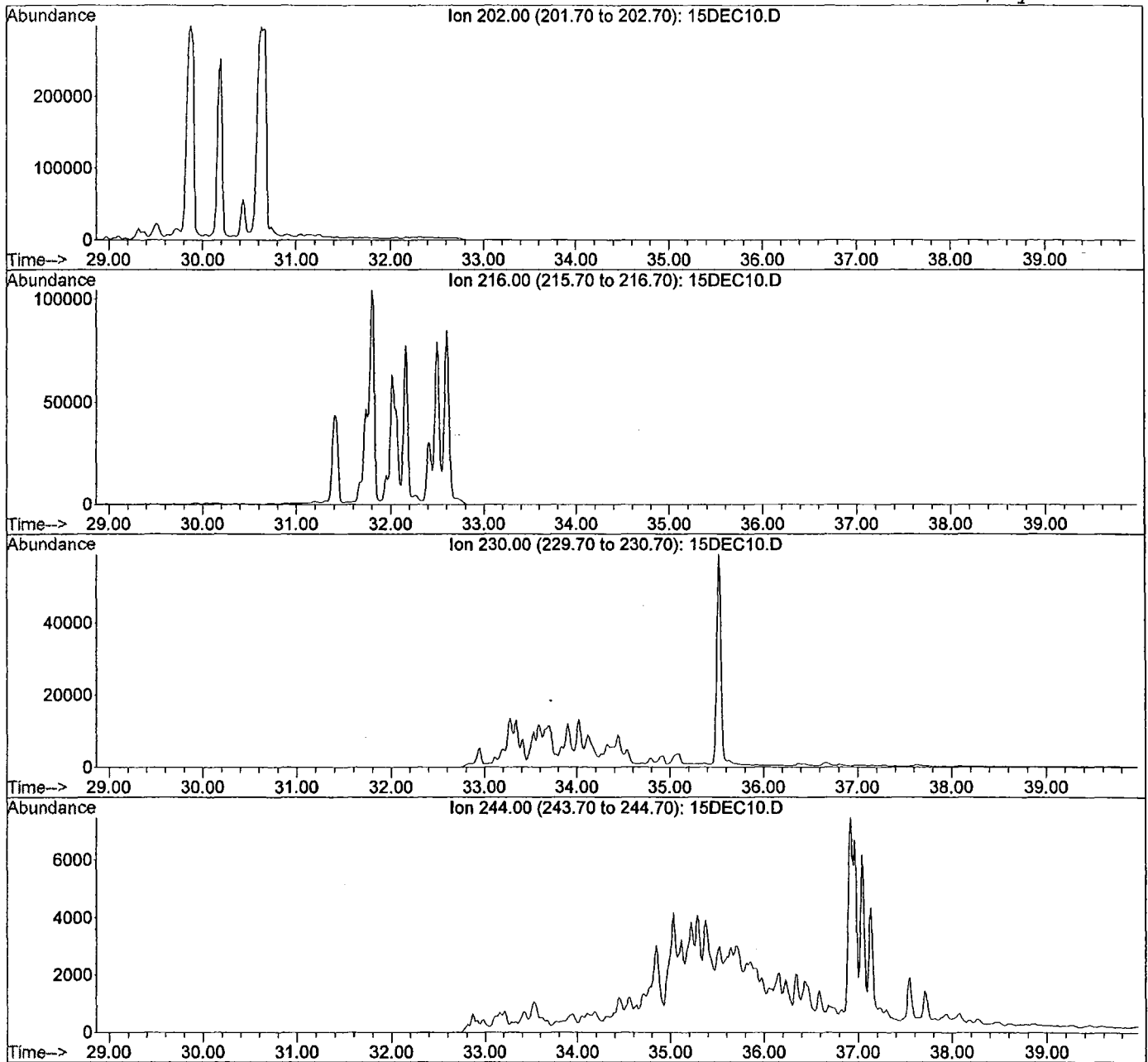
Field ID: T10-3
Lab ID: GT021121-01 1/10
File: I:\4\DATA\021215\15DEC10.D
Acquired: 16 Dec 2002 12:10 am using AcqMethod MET4008
Instrument: GC4-MS_59 Operator: DRC

Dibenzothiophenes



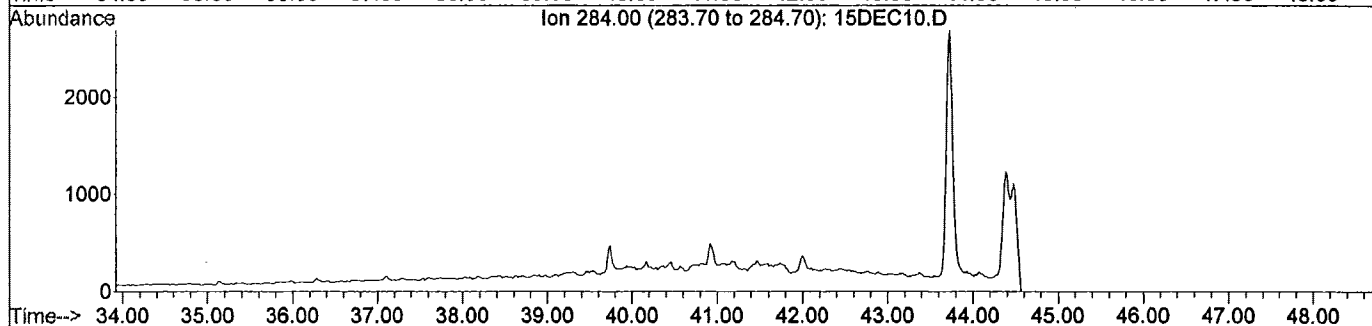
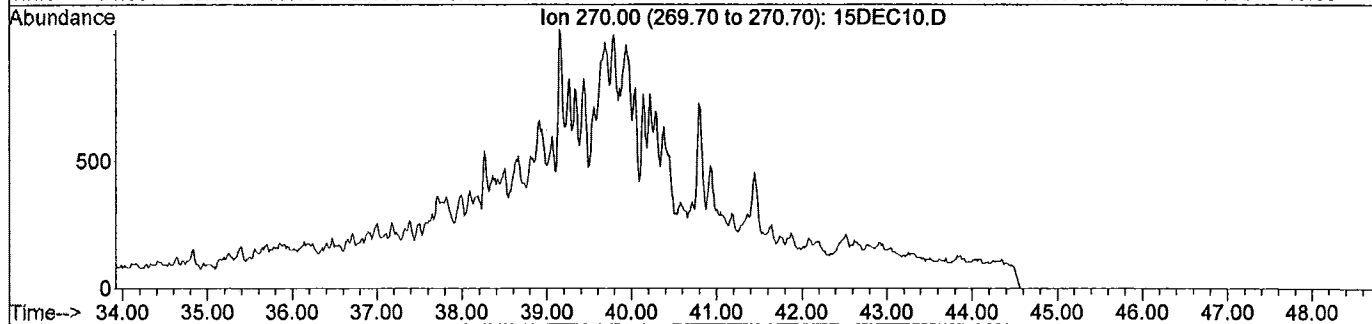
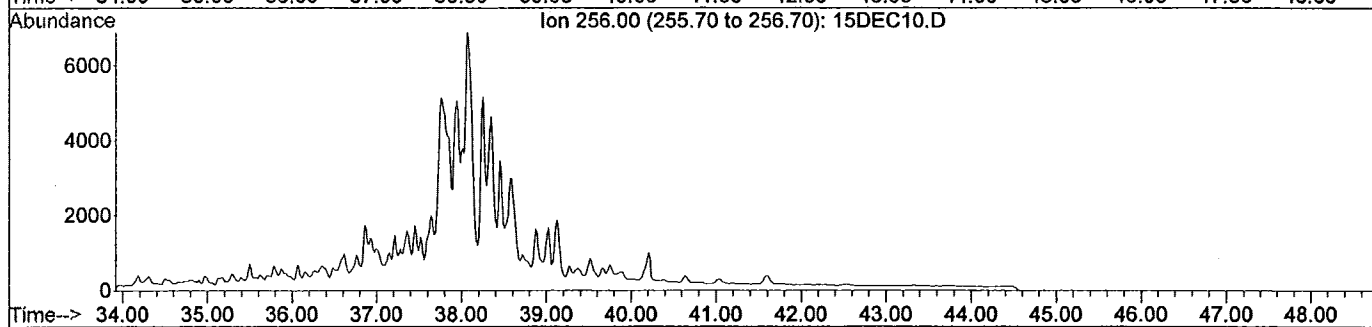
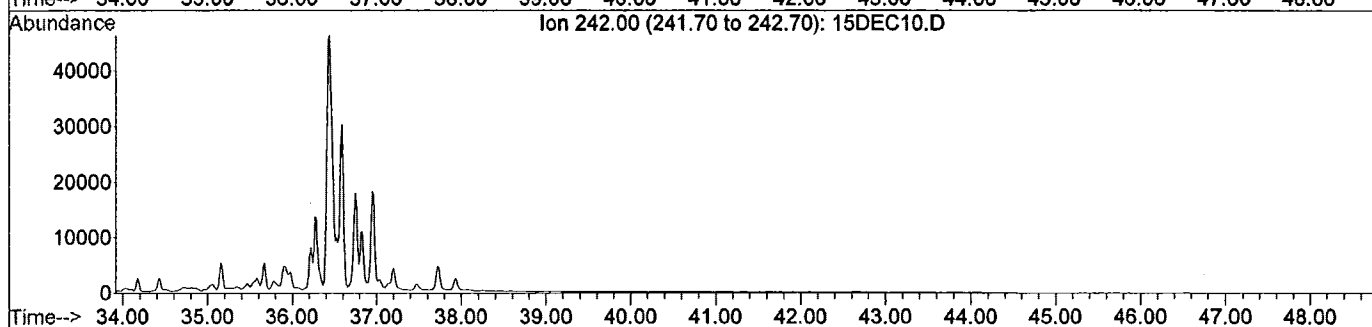
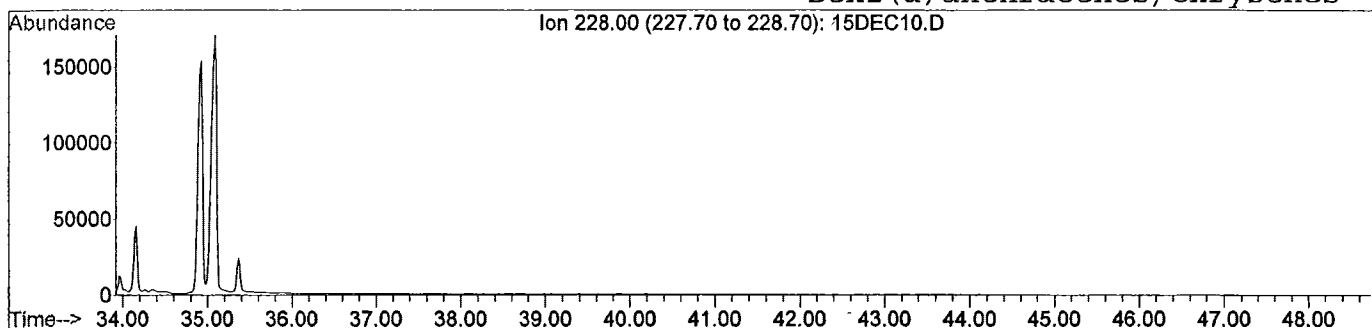
Field ID: T10-3
Lab ID: GT021121-01 1/10
File: I:\4\DATA\021215\15DEC10.D
Acquired: 16 Dec 2002 12:10 am using AcqMethod MET4008
Instrument: GC4-MS_59 Operator: DRC

Fluoranthenes/Pyrenes

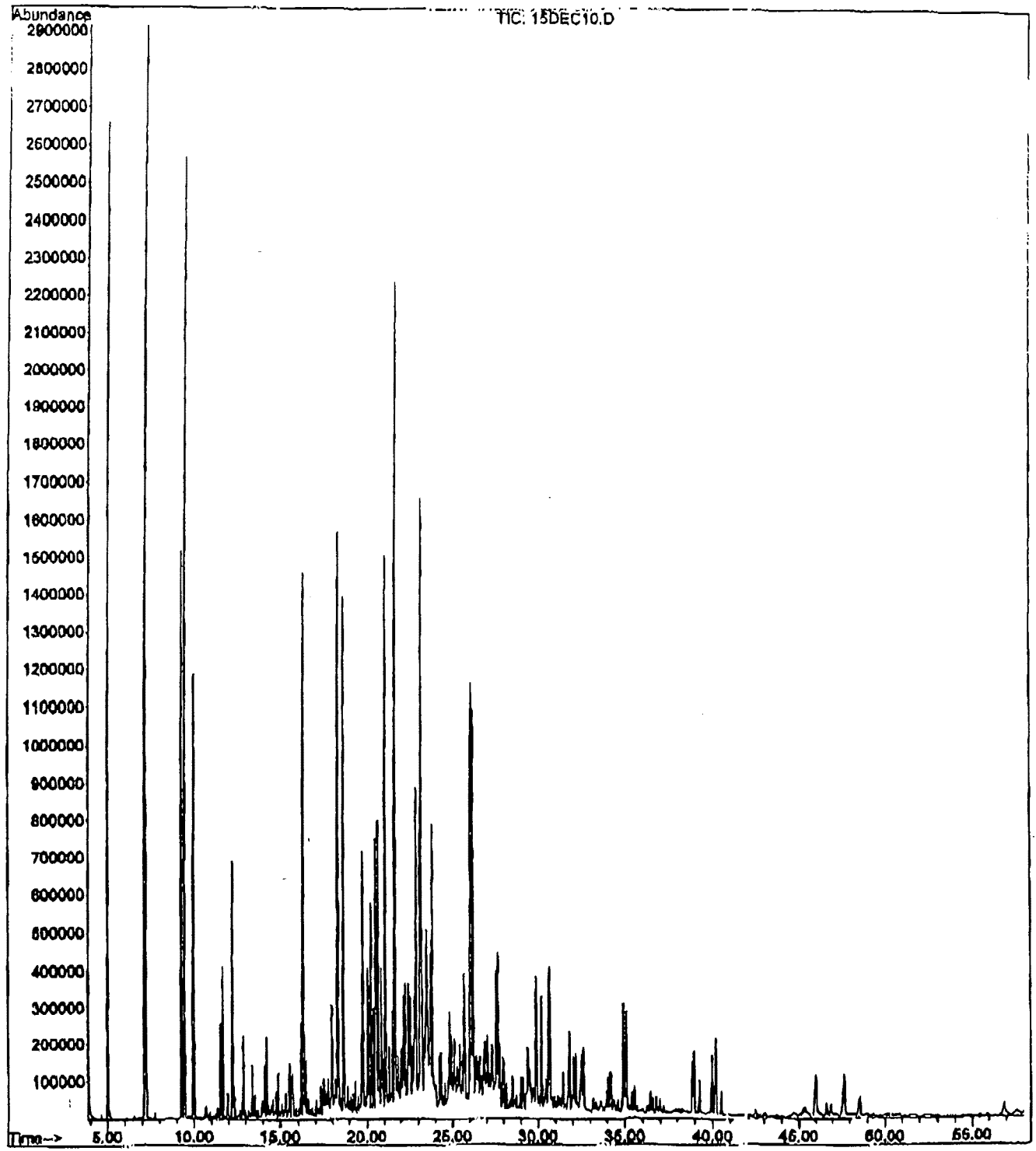


Field ID: T10-3
Lab ID: GT021121-01 1/10
File: I:\4\DATA\021215\15DEC10.D
Acquired: 16 Dec 2002 12:10 am using AcqMethod MET4008
Instrument: GC4-MS_59 Operator: DRC

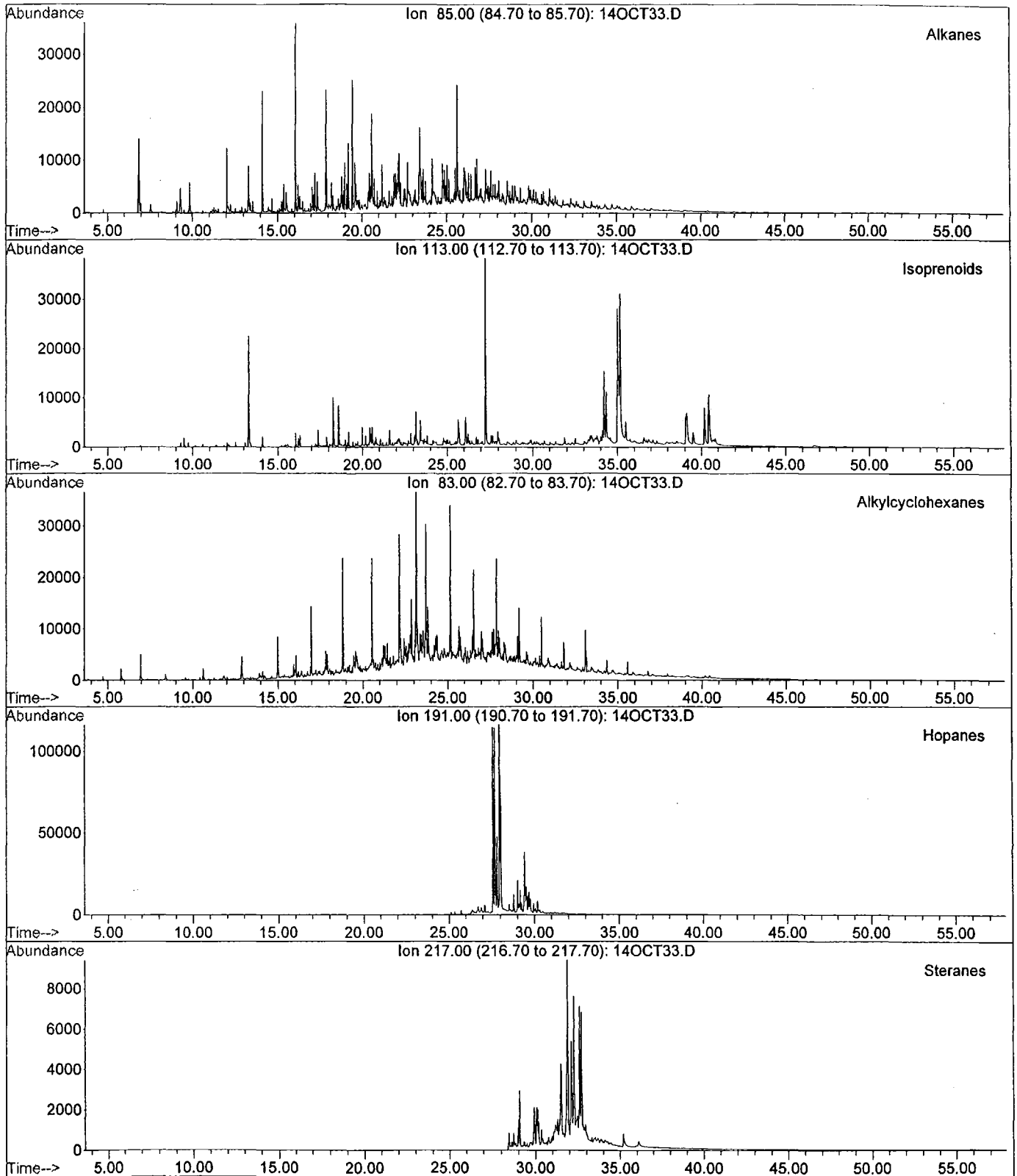
Benz (a) anthracenes/Chrysenes



File : G:\4\DATA\021215\15DEC10.D
Operator : DRC
Acquired : 16 Dec 2002 12:10 am using AcqMethod MET400a
Instrument : GC4-MS 59
Sample Name: GT021121-01 1/10
Misc Info : T10-3
Vial Number: 10

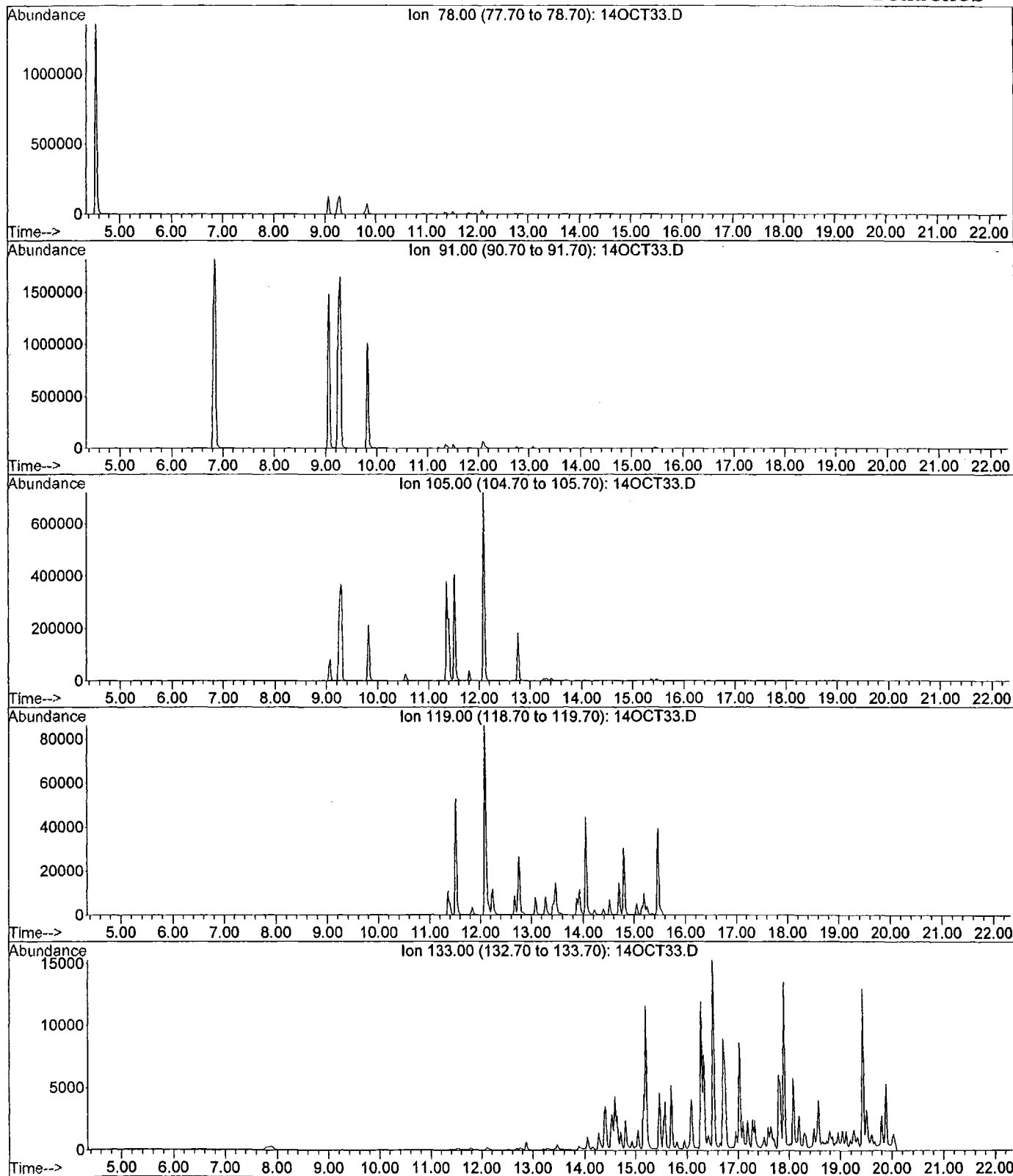


Field ID: B11-12-13
Lab ID: GT020924-03
File: G:\1\DATA\021014\14OCT33.D
Acquired: 16 Oct 2002 1:06 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC



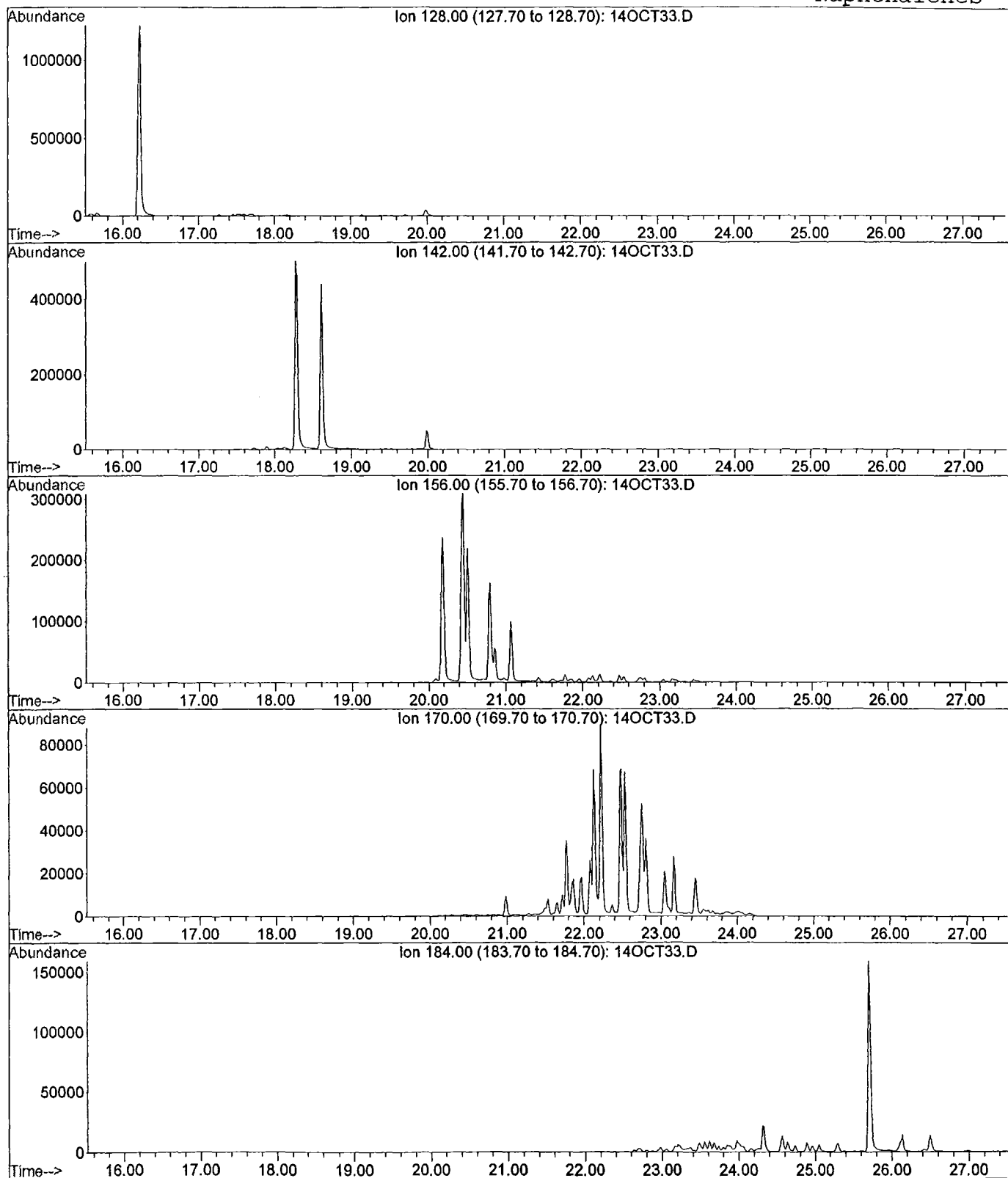
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Lab ID: GT020924-03
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Instrument: GC/MS Ins Operator: ECC

Benzenes



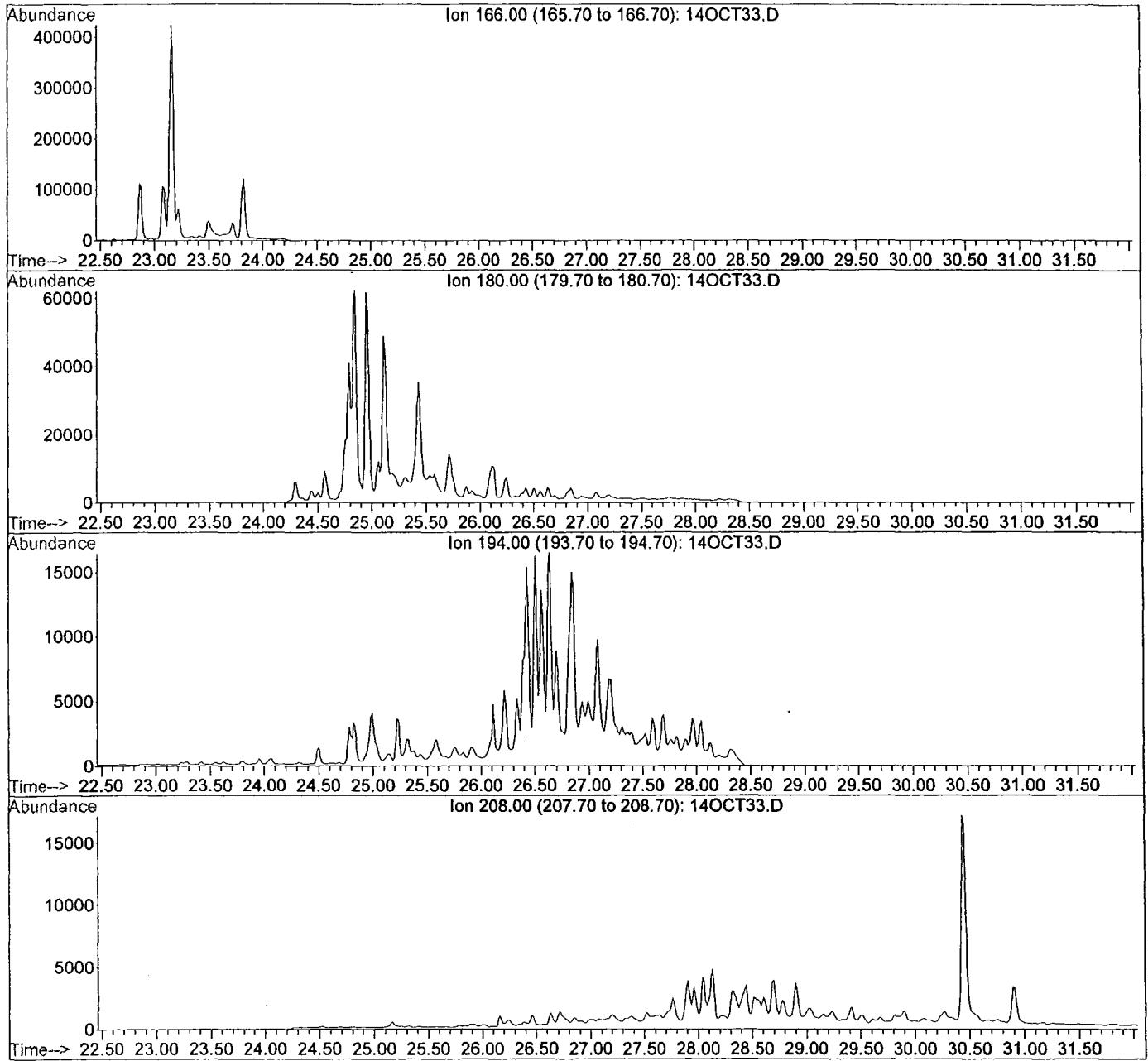
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Acquired: 16 Oct 2002 1:06 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Naphthalenes



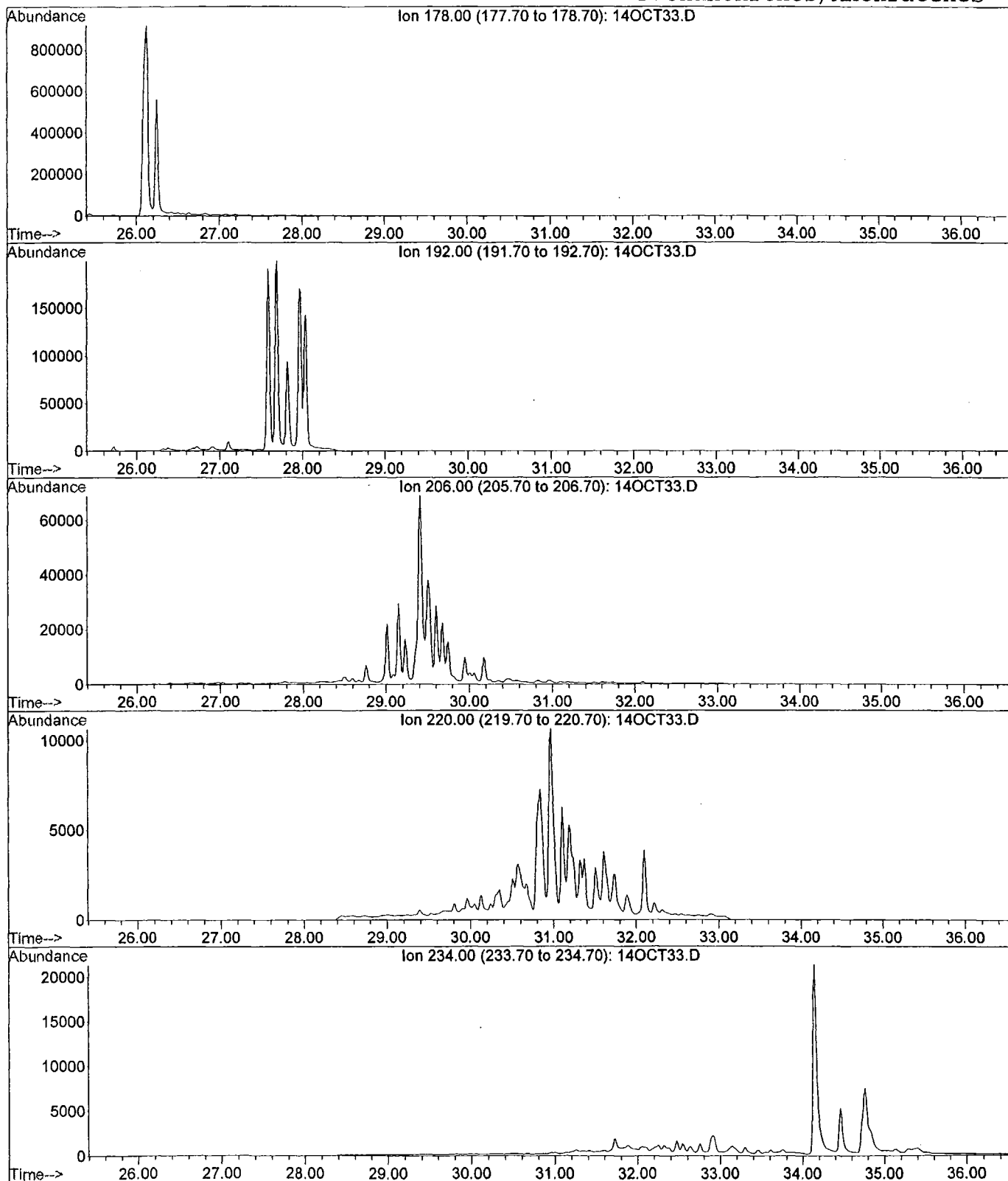
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Instrument: GC/MS Ins Operator: ECC

Fluorenes



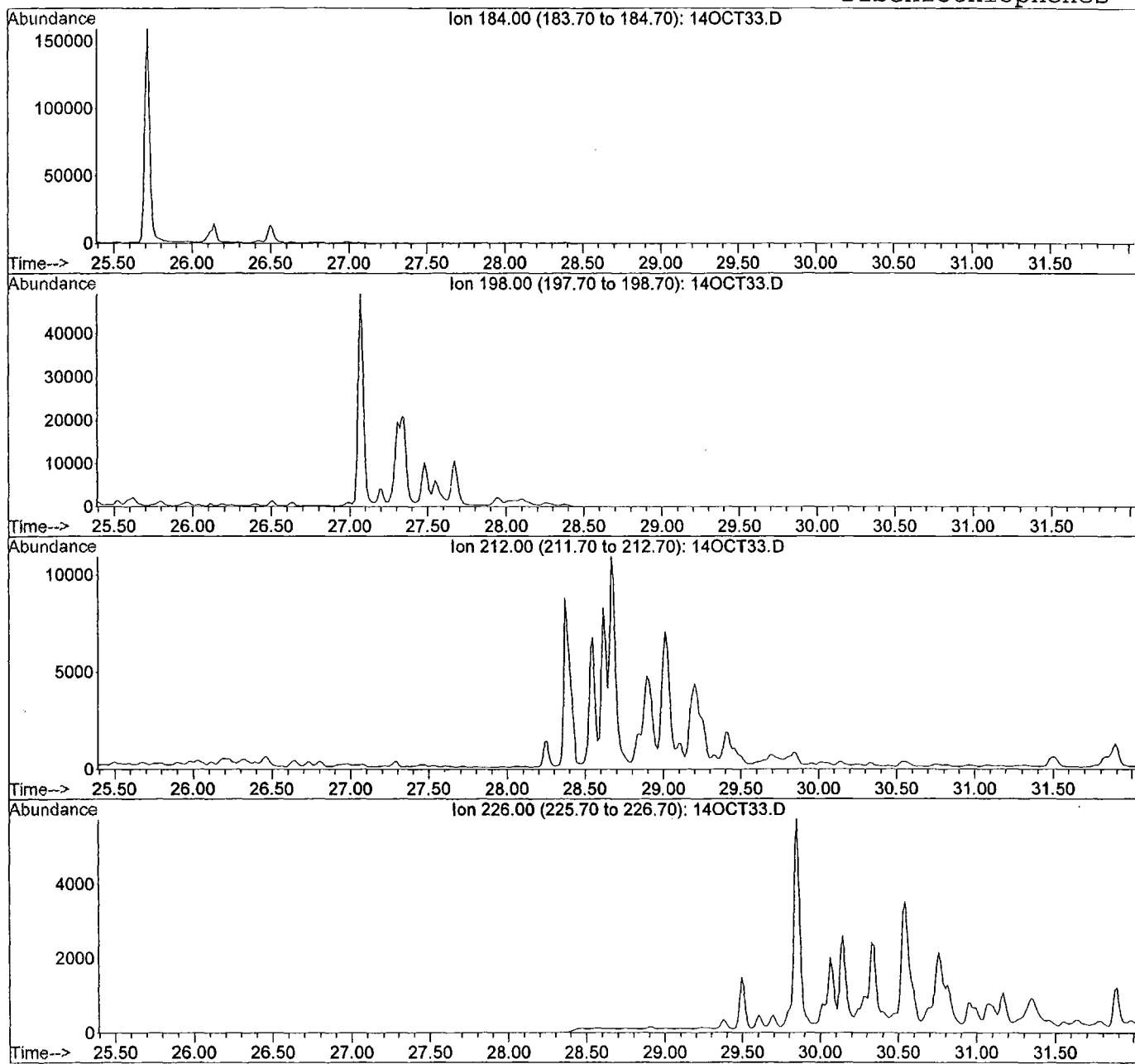
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Acquired: 16 Oct 2002 1:06 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Phenanthrenes/Anthracenes



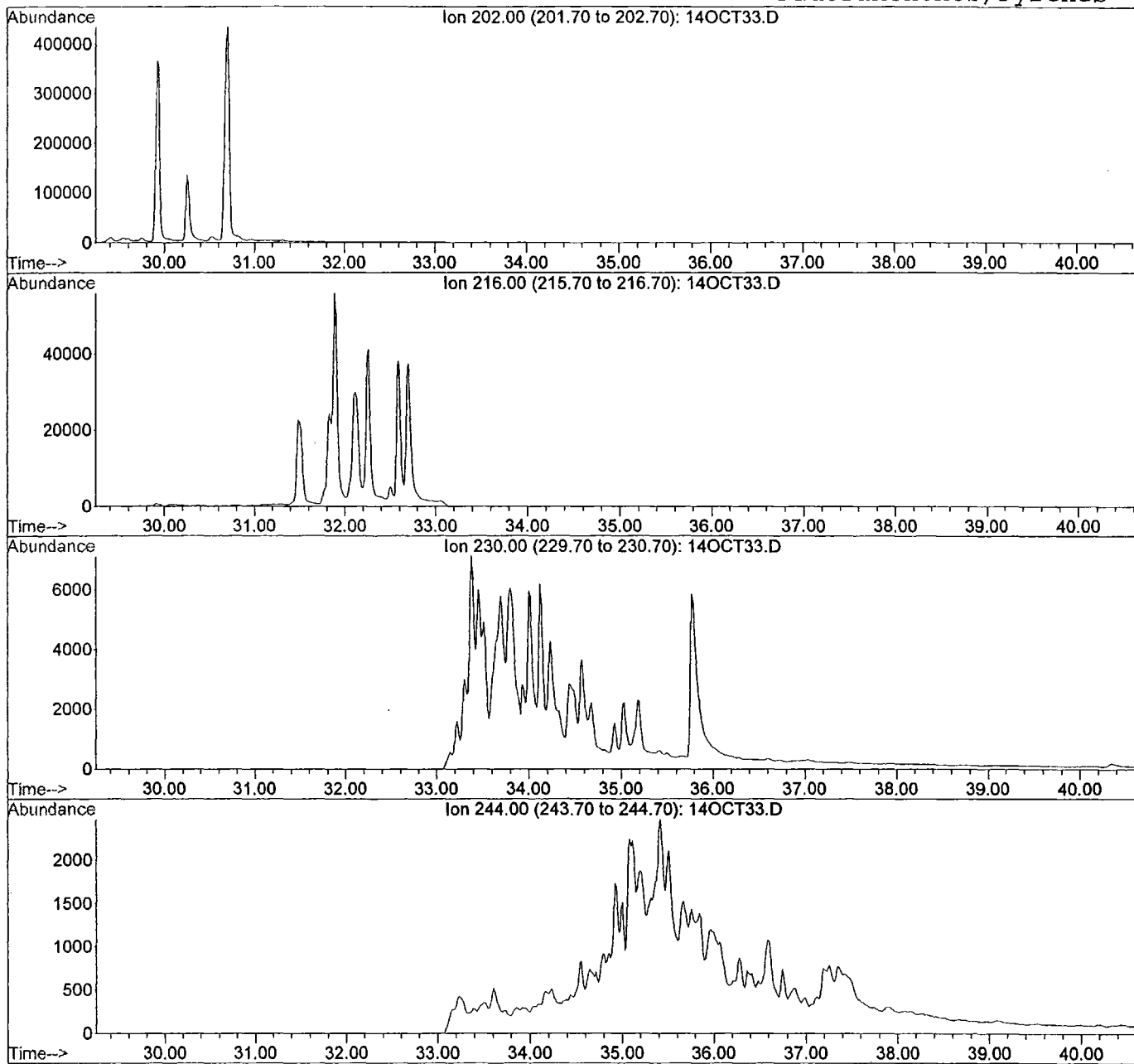
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Lab ID: GT020924-03
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Acquired: 16 Oct 2002 1:06 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Dibenzothiophenes



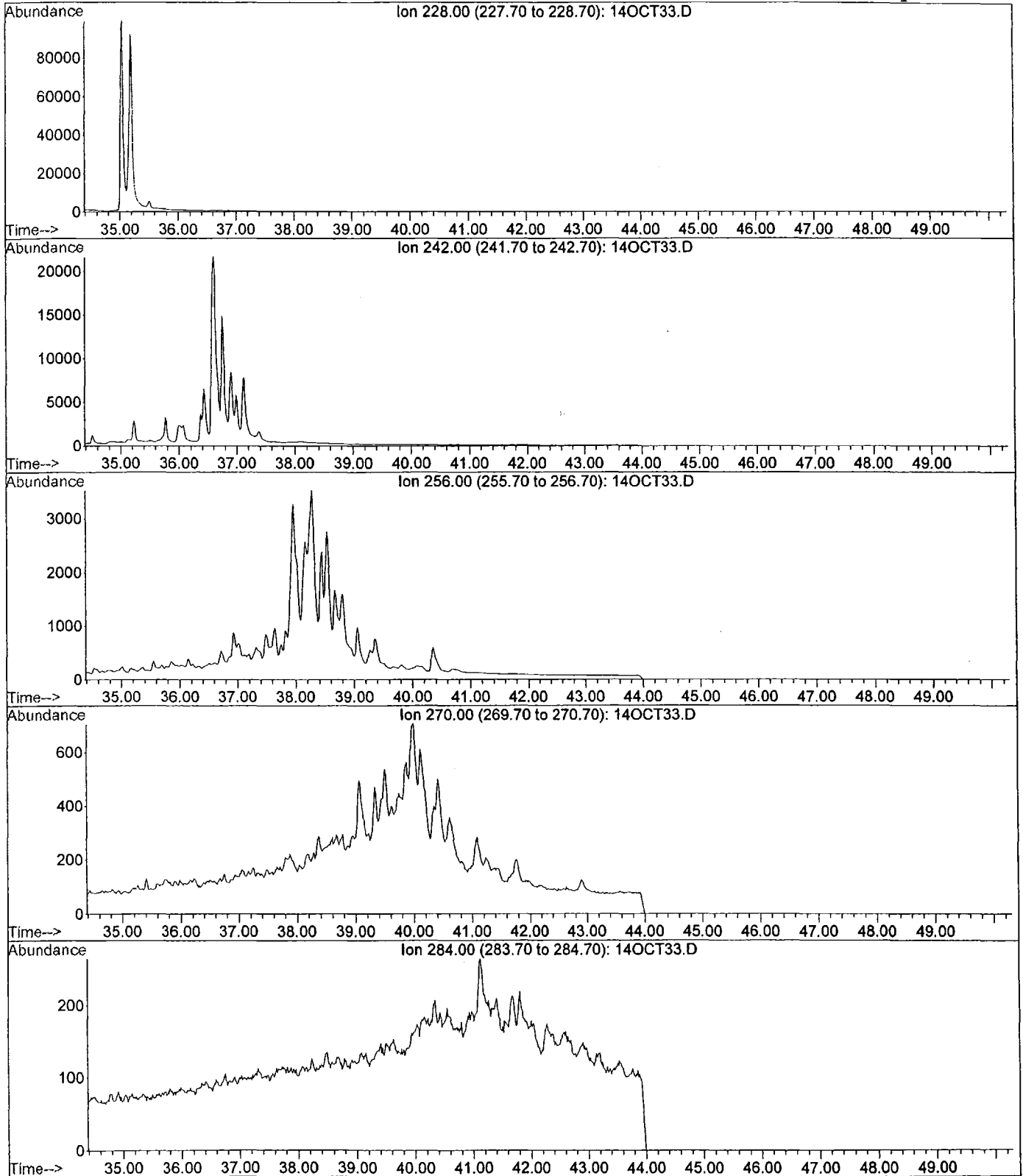
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Lab ID: GT020924-03
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Instrument: GC/MS Ins Operator: ECC

Fluoranthenes/Pyrenes

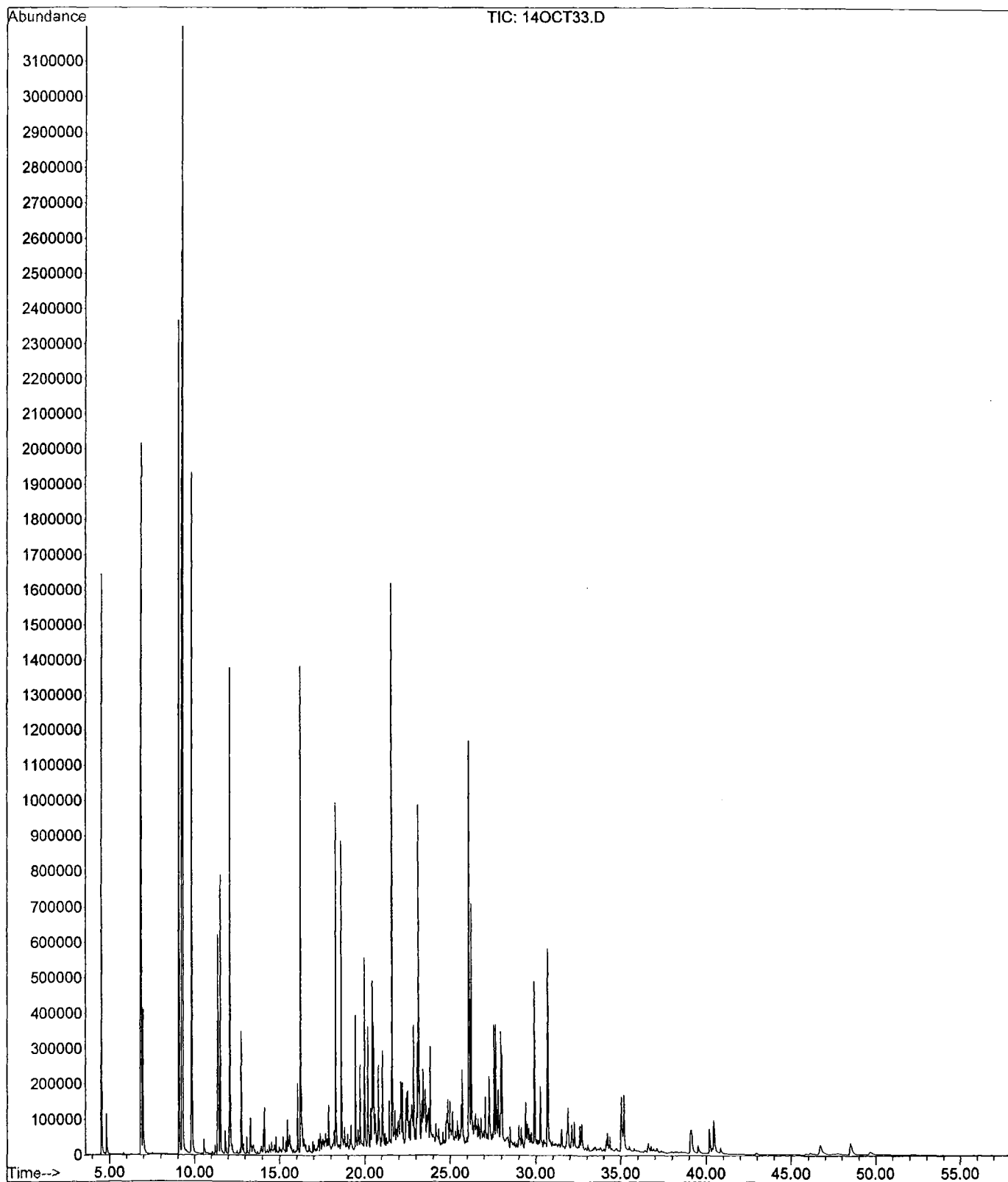


Field ID: B11-12-13
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Acquired: 16 Oct 2002 1:06 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

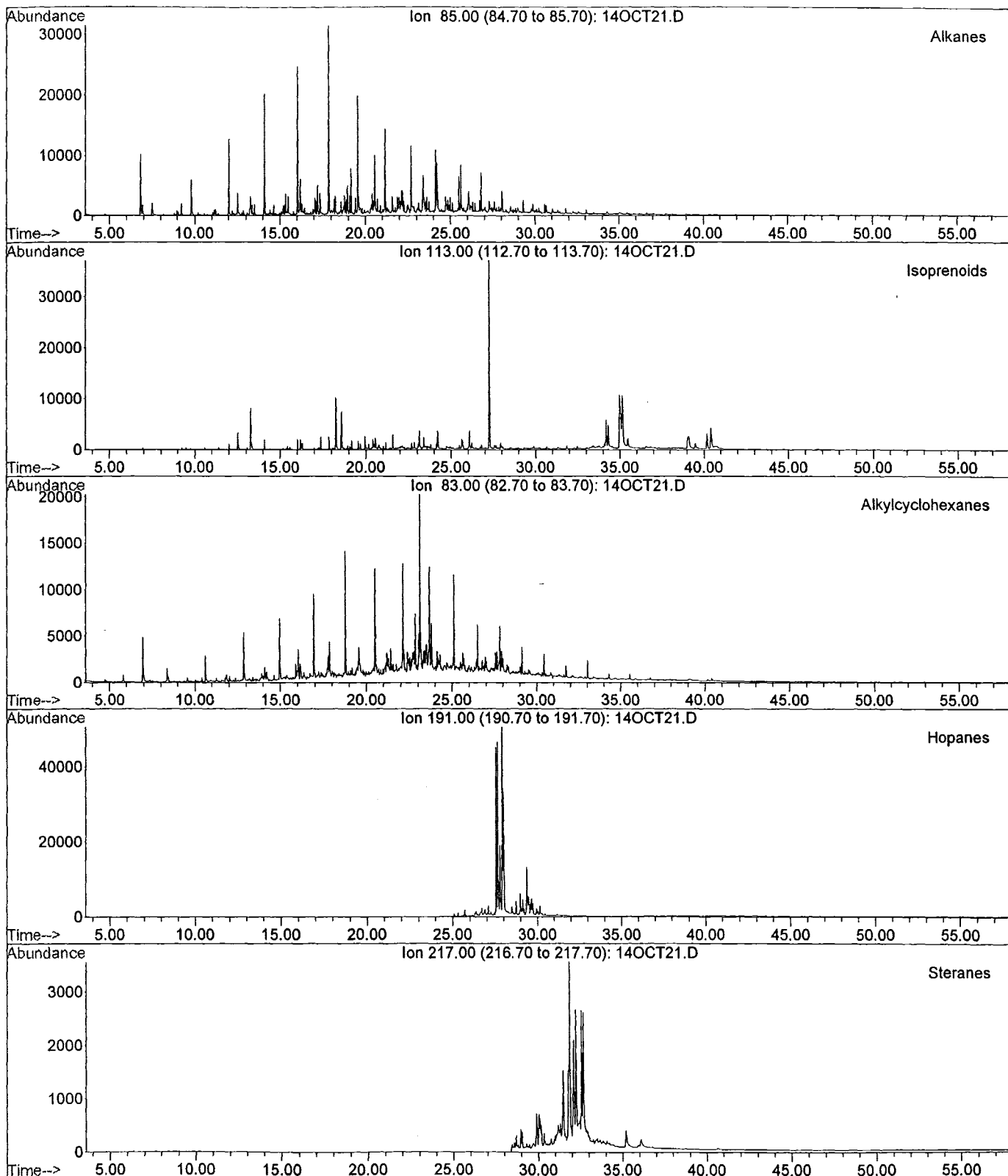
Benz (a) anthracenes/Chrysenes



Field ID: B11-12-13
Lab ID: GT020924-03
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Acquired: 16 Oct 2002 1:06 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

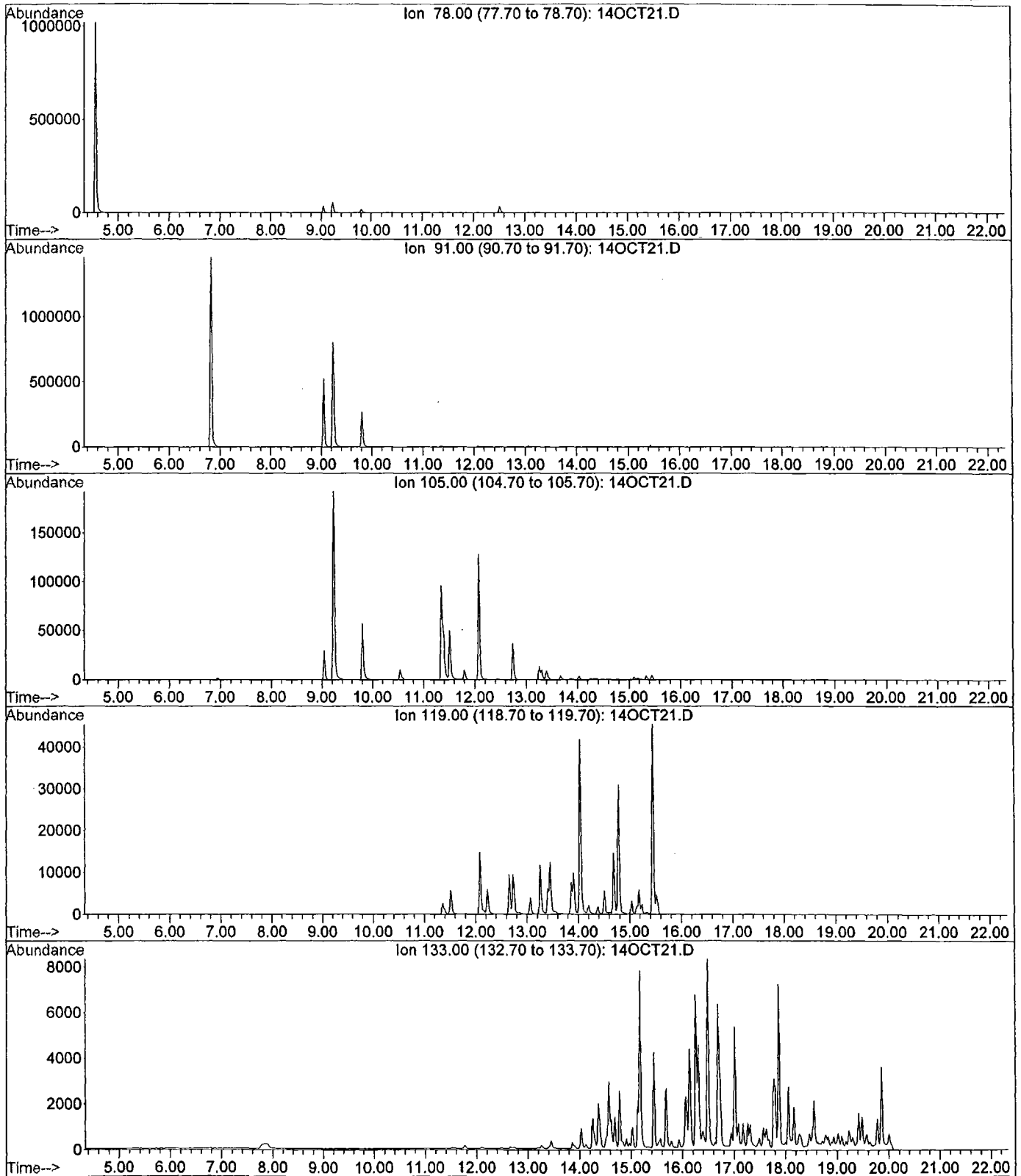


Field ID: B12-11-12
Lab ID: GT020924-04 1:10
File: G:\1\DATA\021014\14OCT21.D
Acquired: 15 Oct 2002 10:49 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC



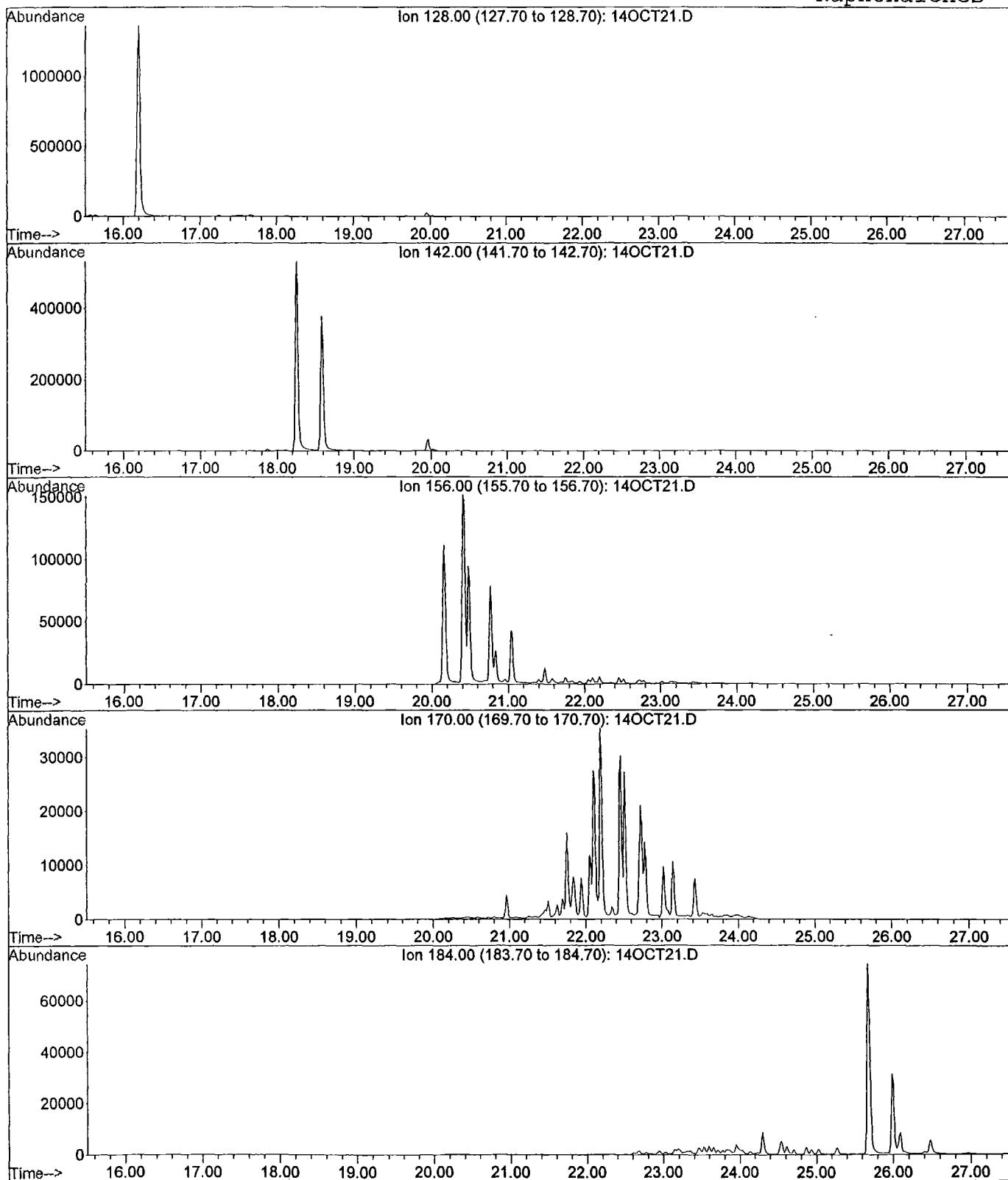
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Lab ID: GT020924-04 1:10
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Acquired: 15 Oct 2002 10:49 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Benzenes



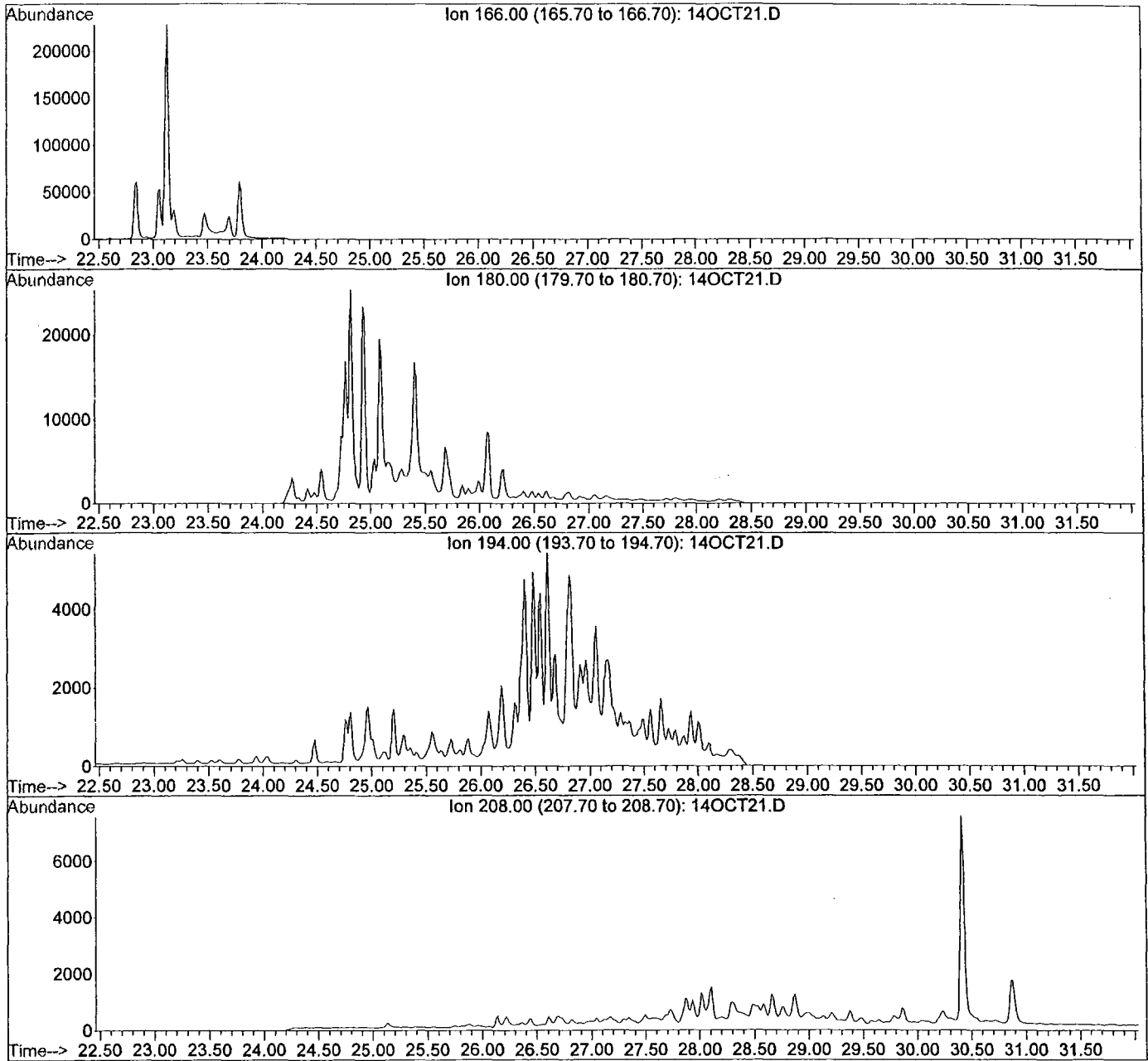
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Instrument: GC/MS Ins Operator: ECC

Naphthalenes



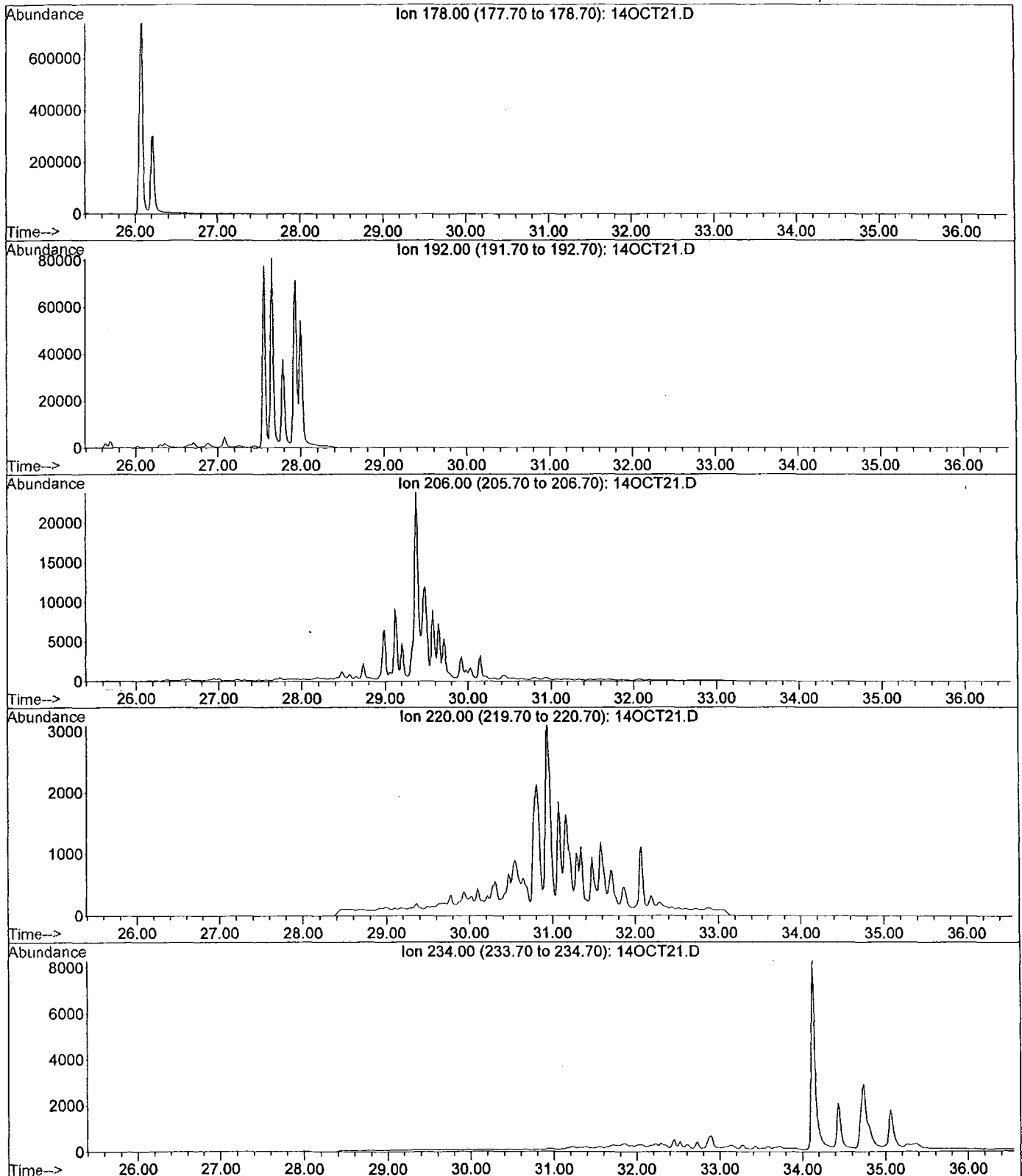
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Instrument: GC/MS Ins Operator: ECC

Fluorenes



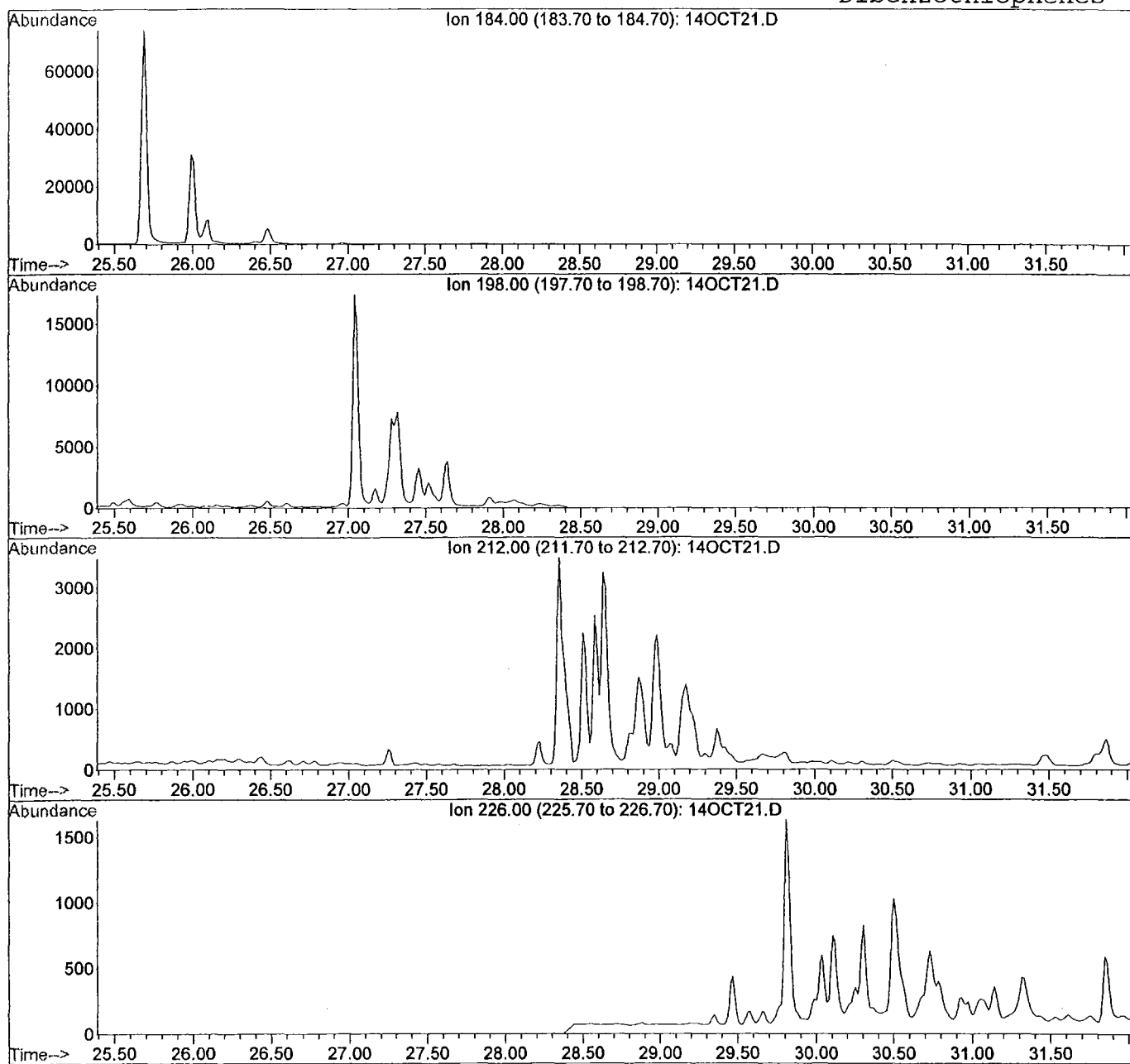
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Lab ID: GT020924-04 1:10
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Acquired: 15 Oct 2002 10:49 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Phenanthrenes/Anthracenes



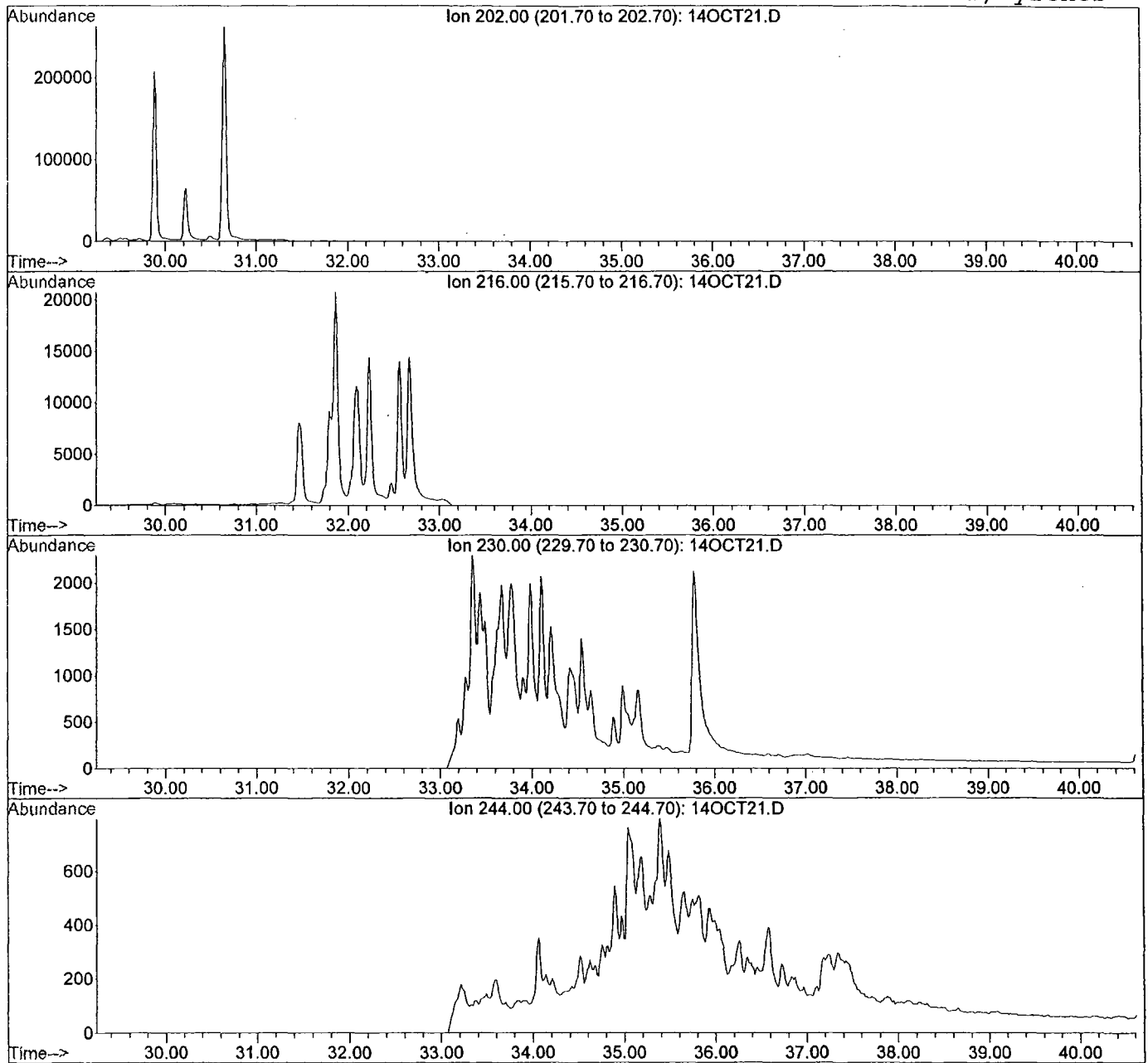
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Lab ID: GT020924-04 1:10
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Instrument: GC/MS Ins Operator: ECC

Dibenzothiophenes



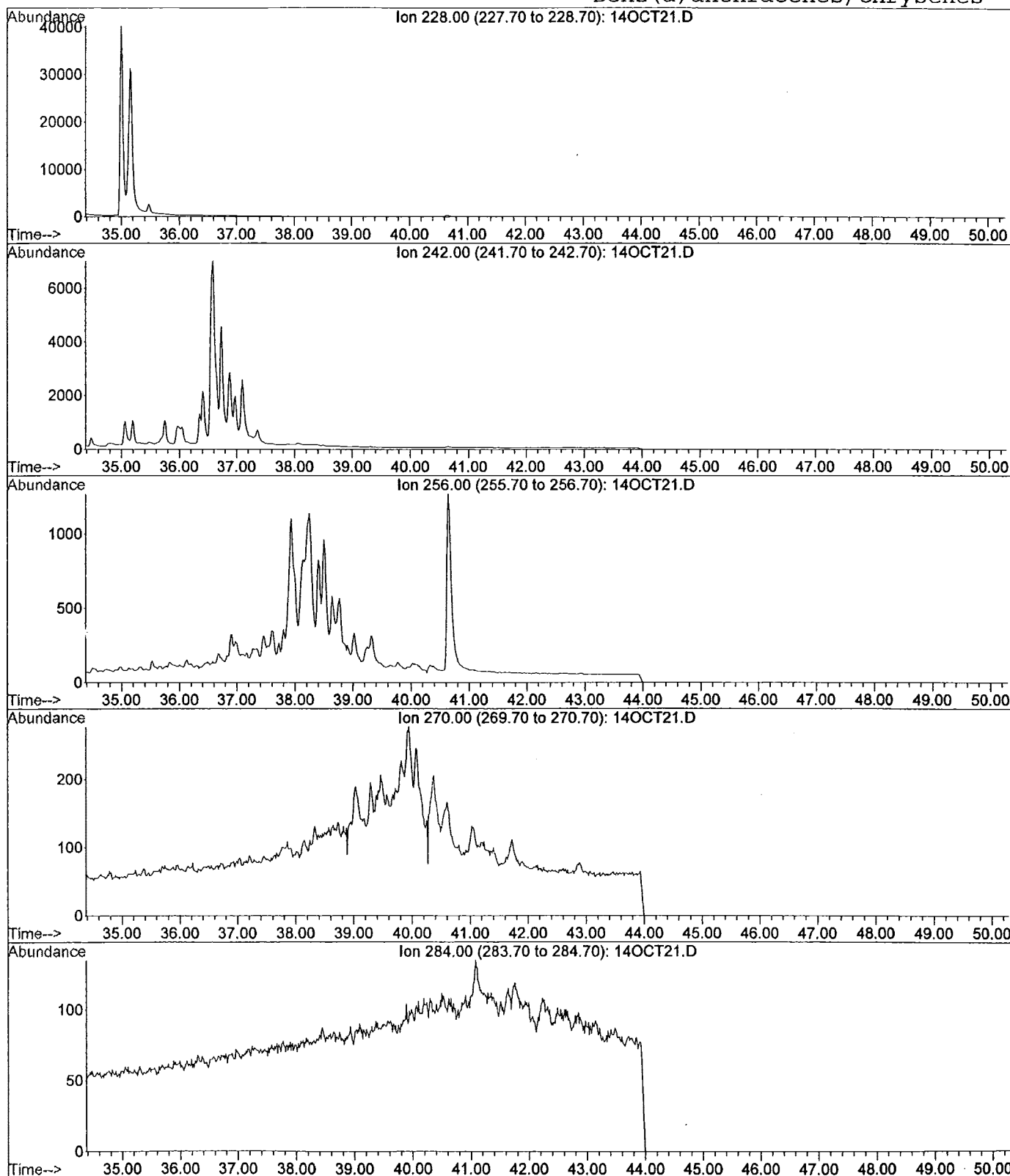
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Lab ID: GT020924-04 1:10
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Instrument: GC/MS Ins Operator: ECC

Fluoranthenes/Pyrenes

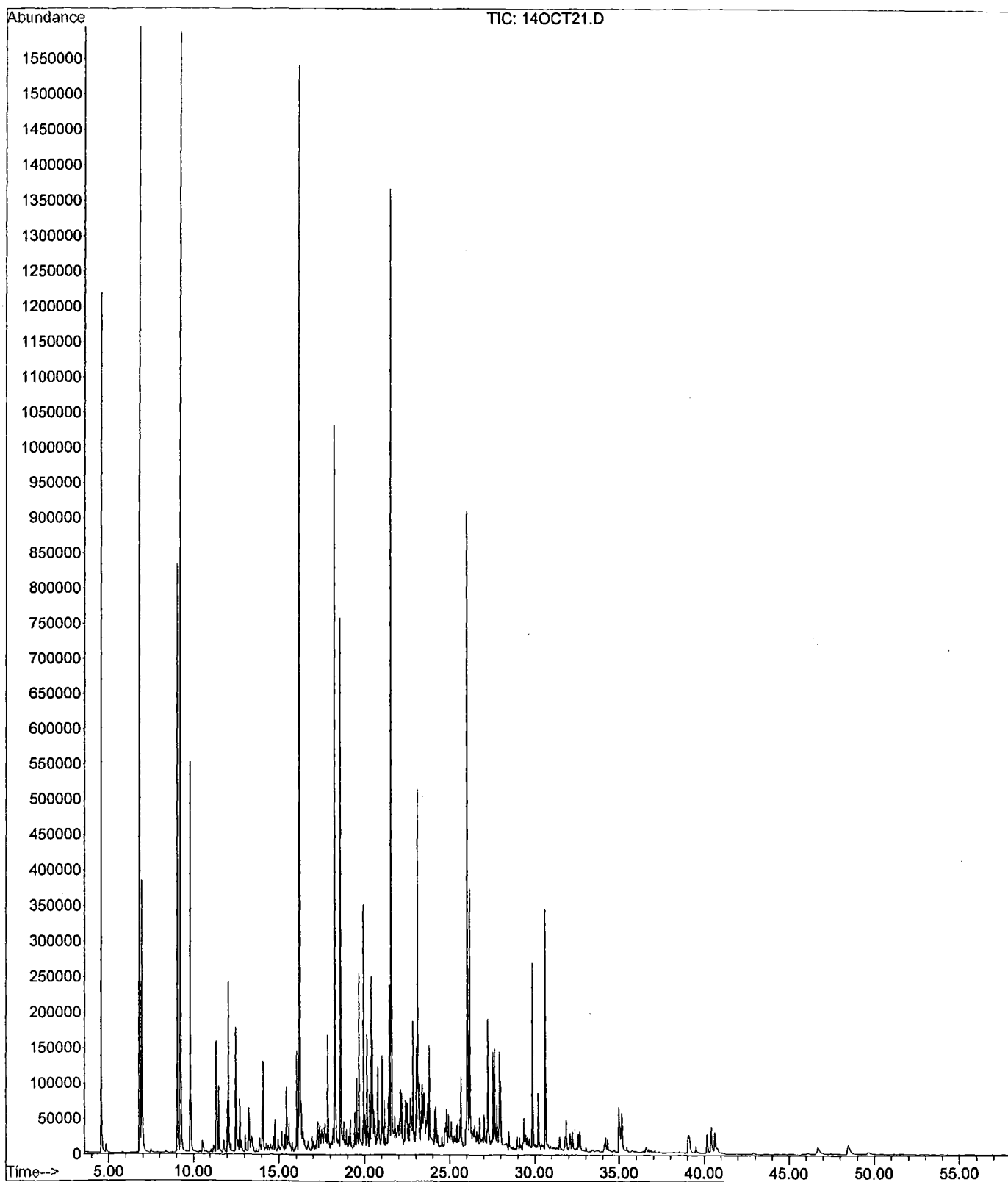


Field ID: B12-11-12
Lab ID: GT020924-04 1:10
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Acquired: 15 Oct 2002 10:49 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

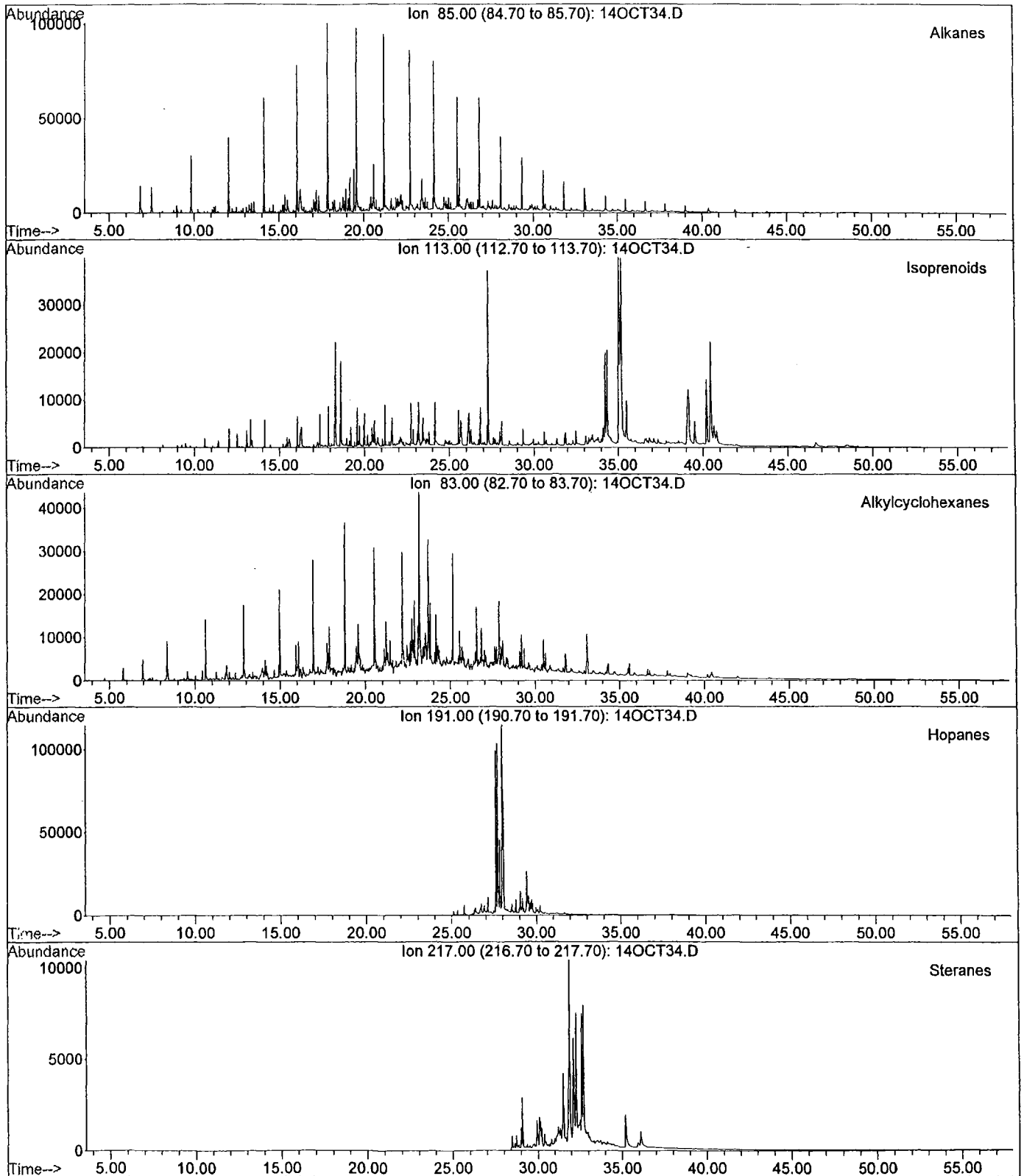
Benz (a) anthracenes/Chrysenes



Field ID: B12-11-12
Lab ID: GT020924-04 1:10
File: G:\1\DATA\021014\14OCT21.D
Acquired: 15 Oct 2002 10:49 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

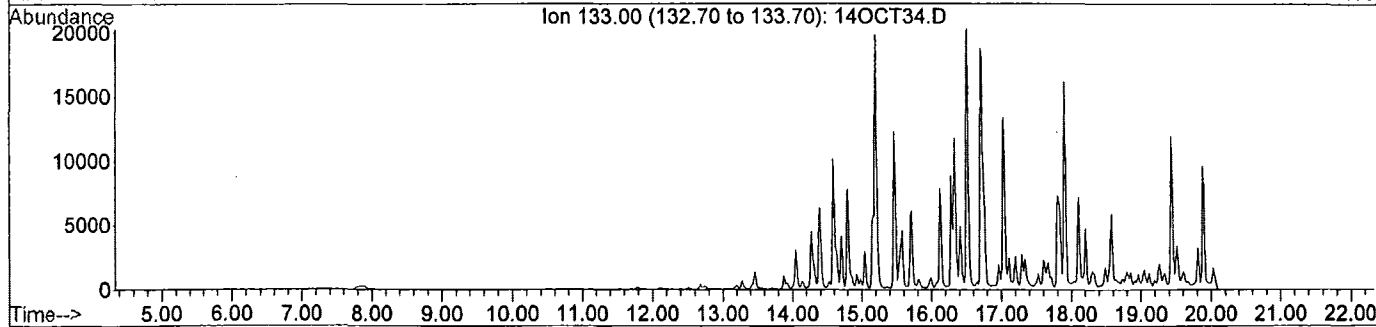
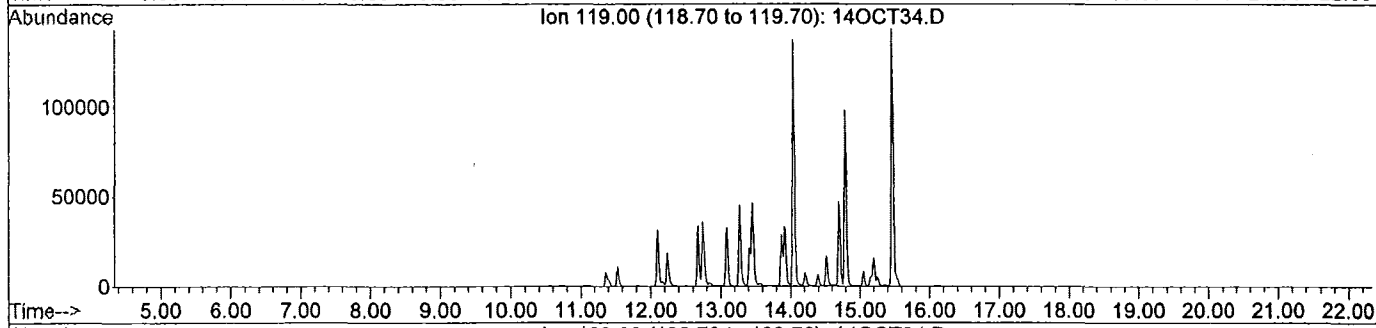
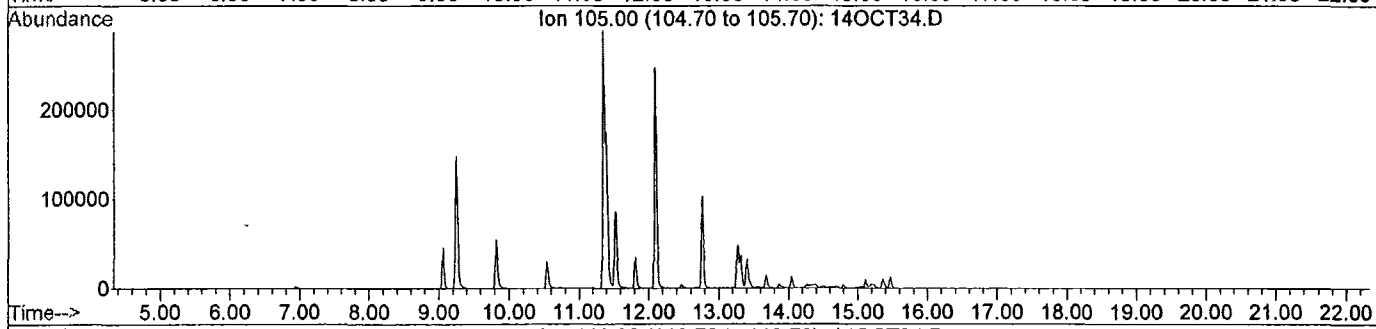
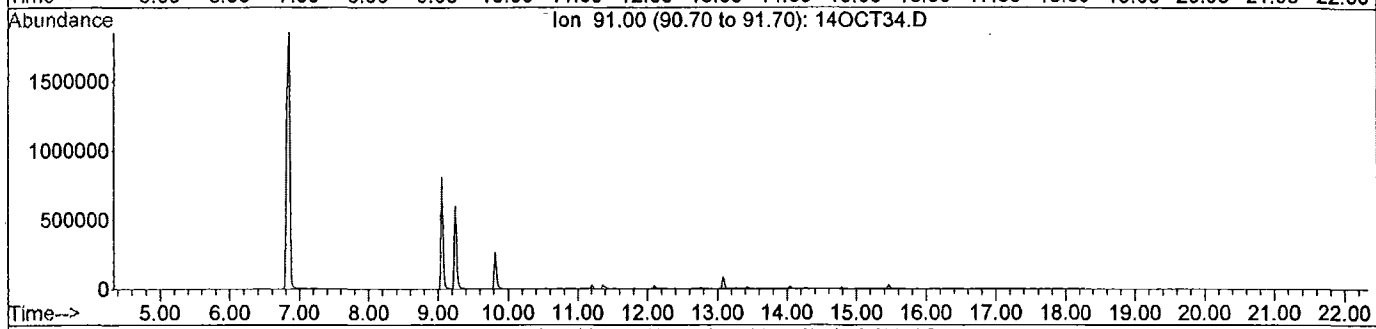
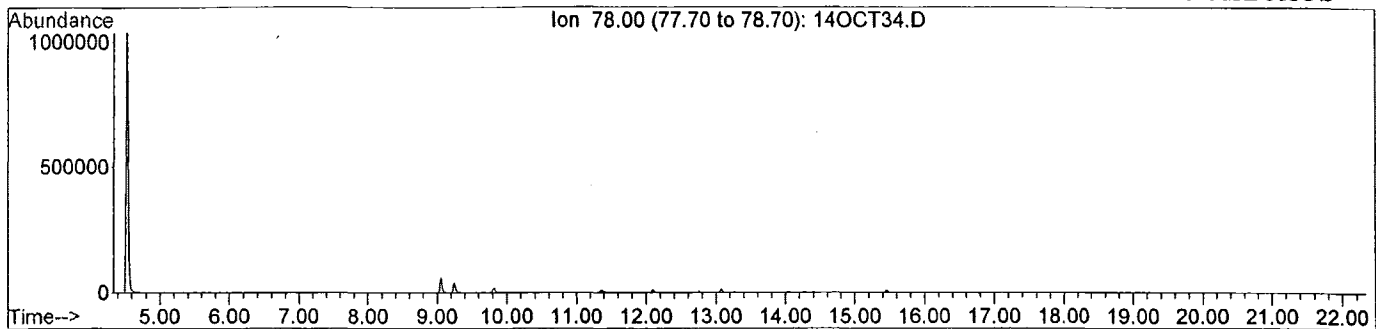


Field ID: B13-12-13
Lab ID: GT020924-05
File: G:\1\DATA\021014\14OCT34.D
Acquired: 16 Oct 2002 2:26 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC



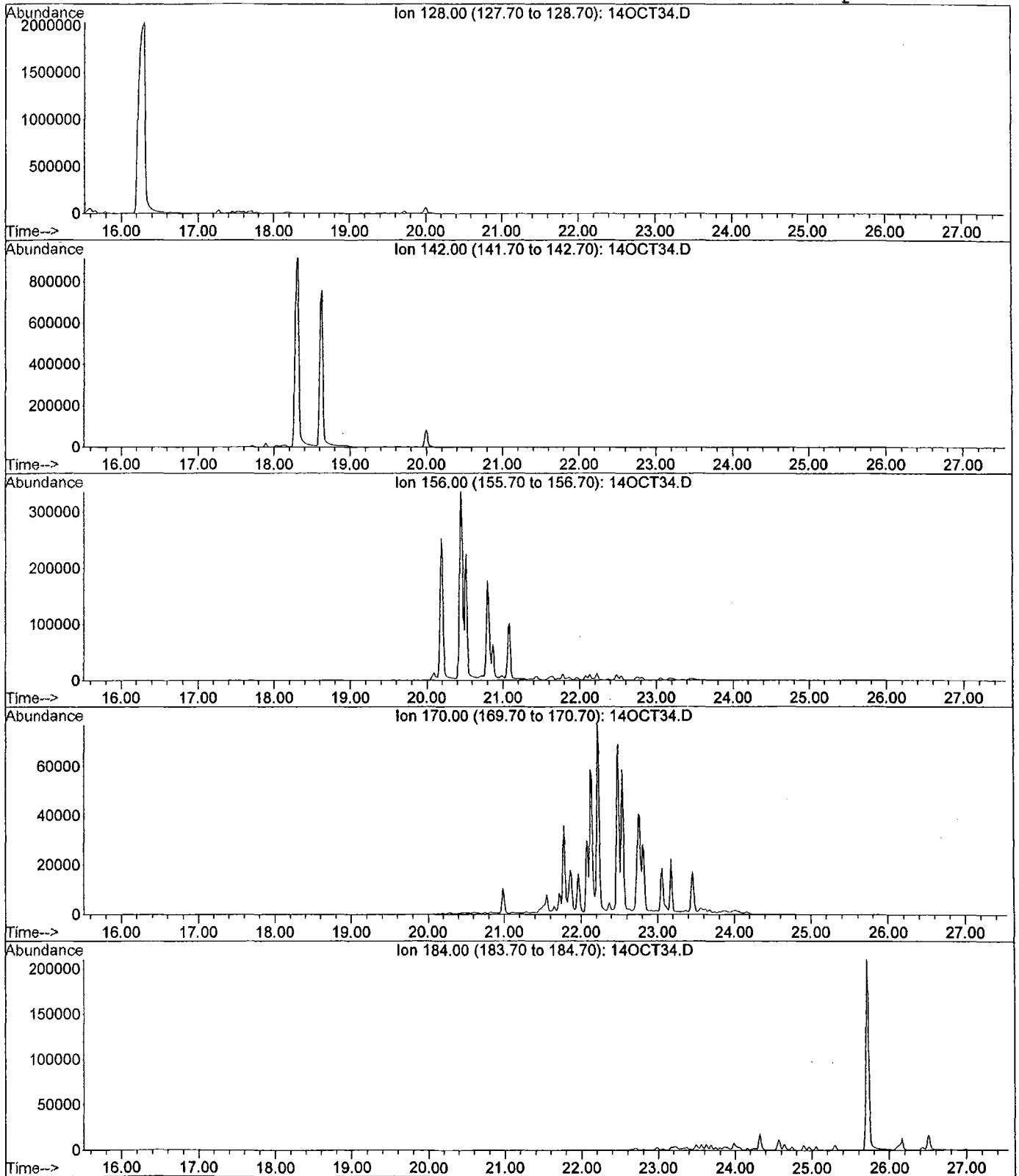
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Lab ID: GT020924-05
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Instrument: GC/MS Ins Operator: ECC

Benzenes



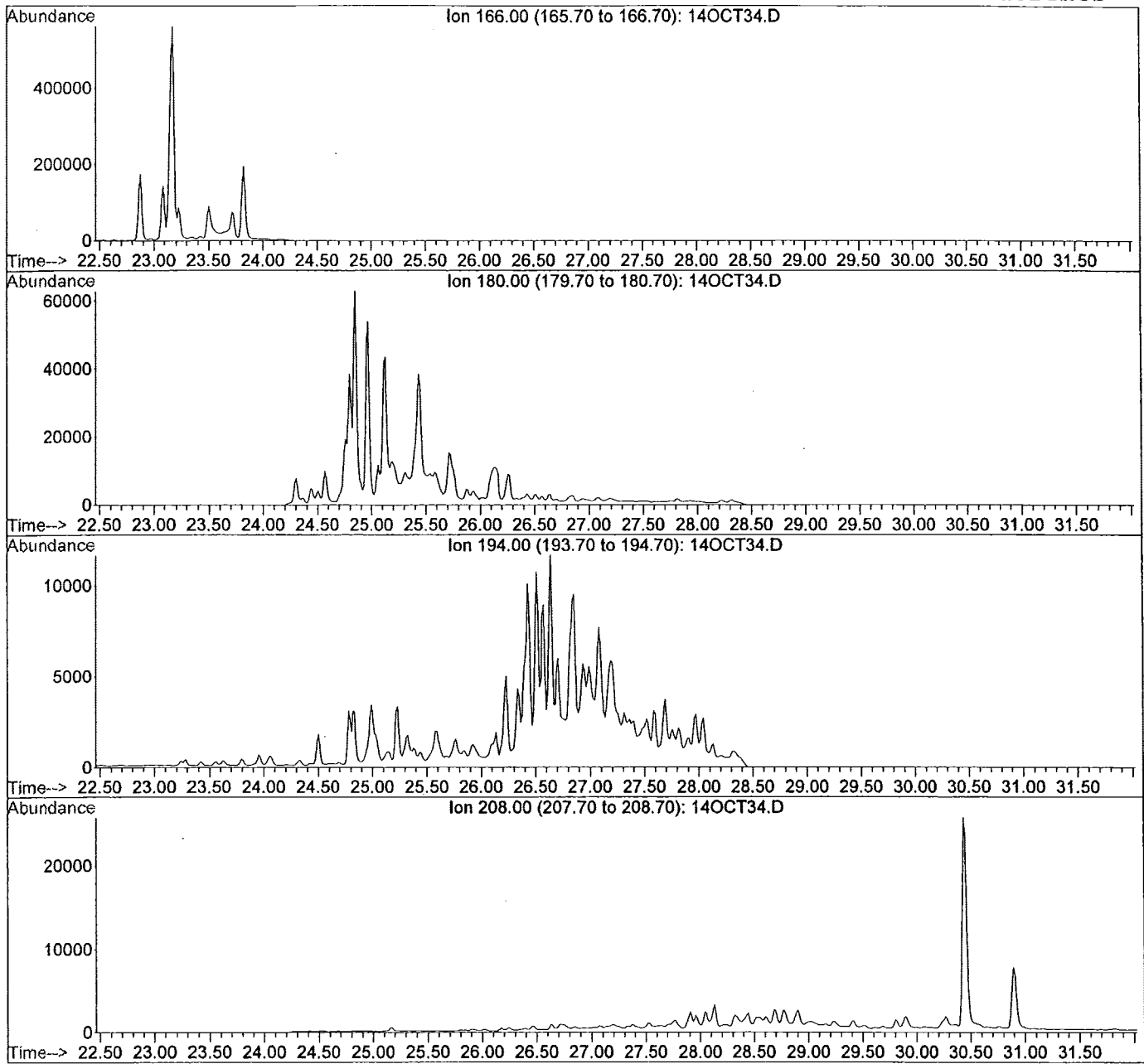
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Instrument: GC/MS Ins Operator: ECC

Naphthalenes



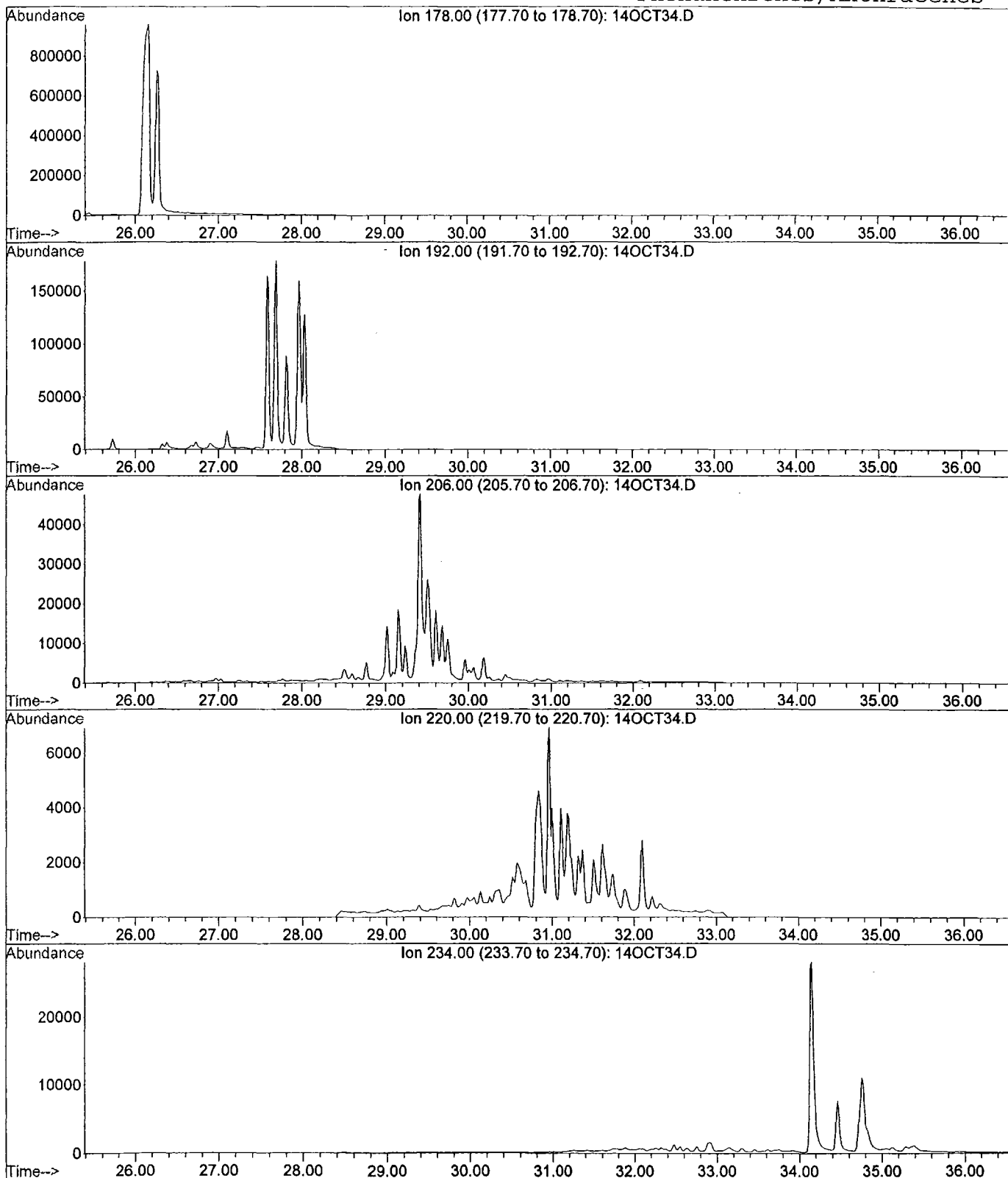
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Instrument: GC/MS Ins Operator: ECC

Fluorenes



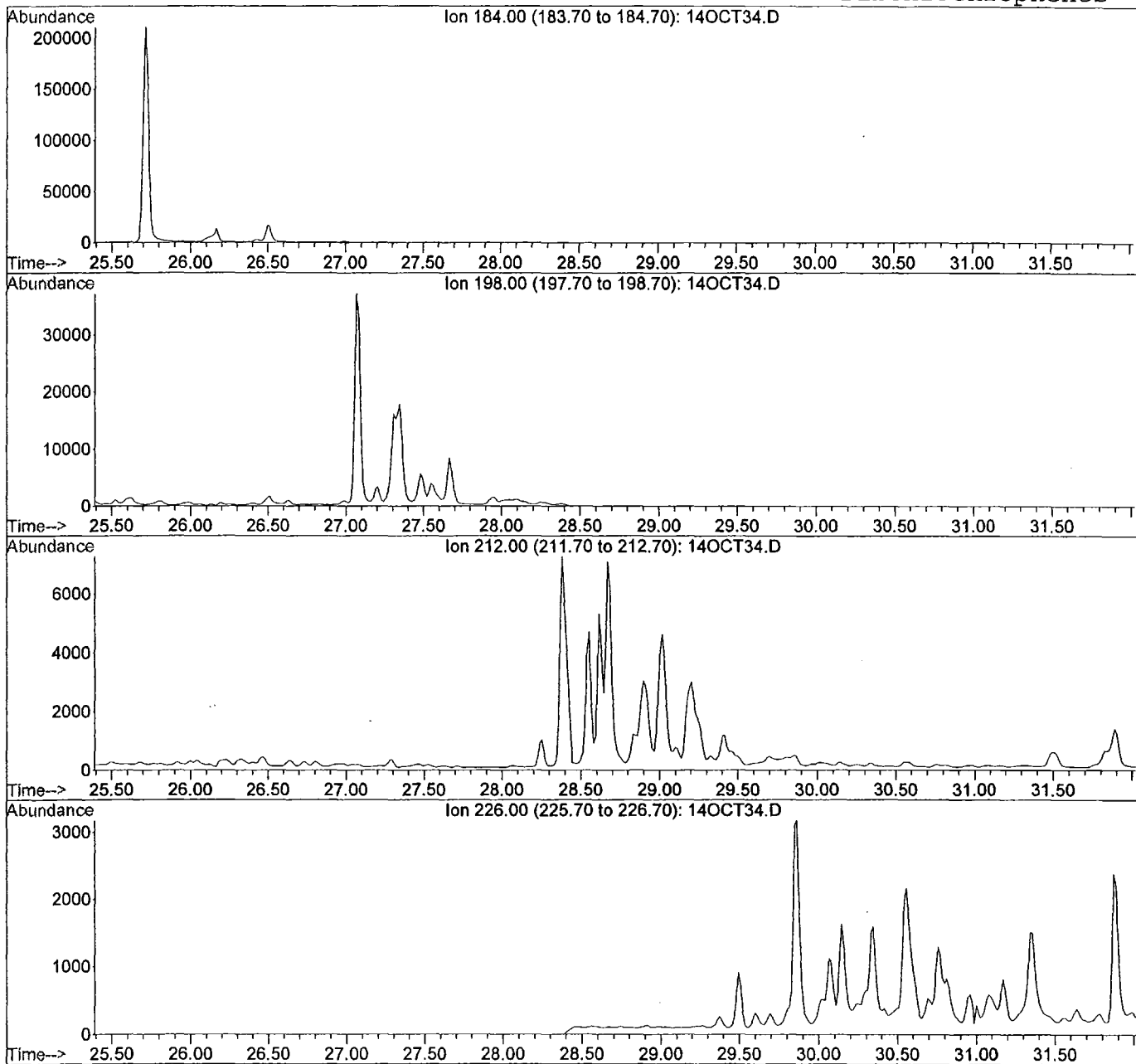
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Lab ID: GT020924-05
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Acquired: 16 Oct 2002 2:26 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Phenanthrenes/Anthracenes



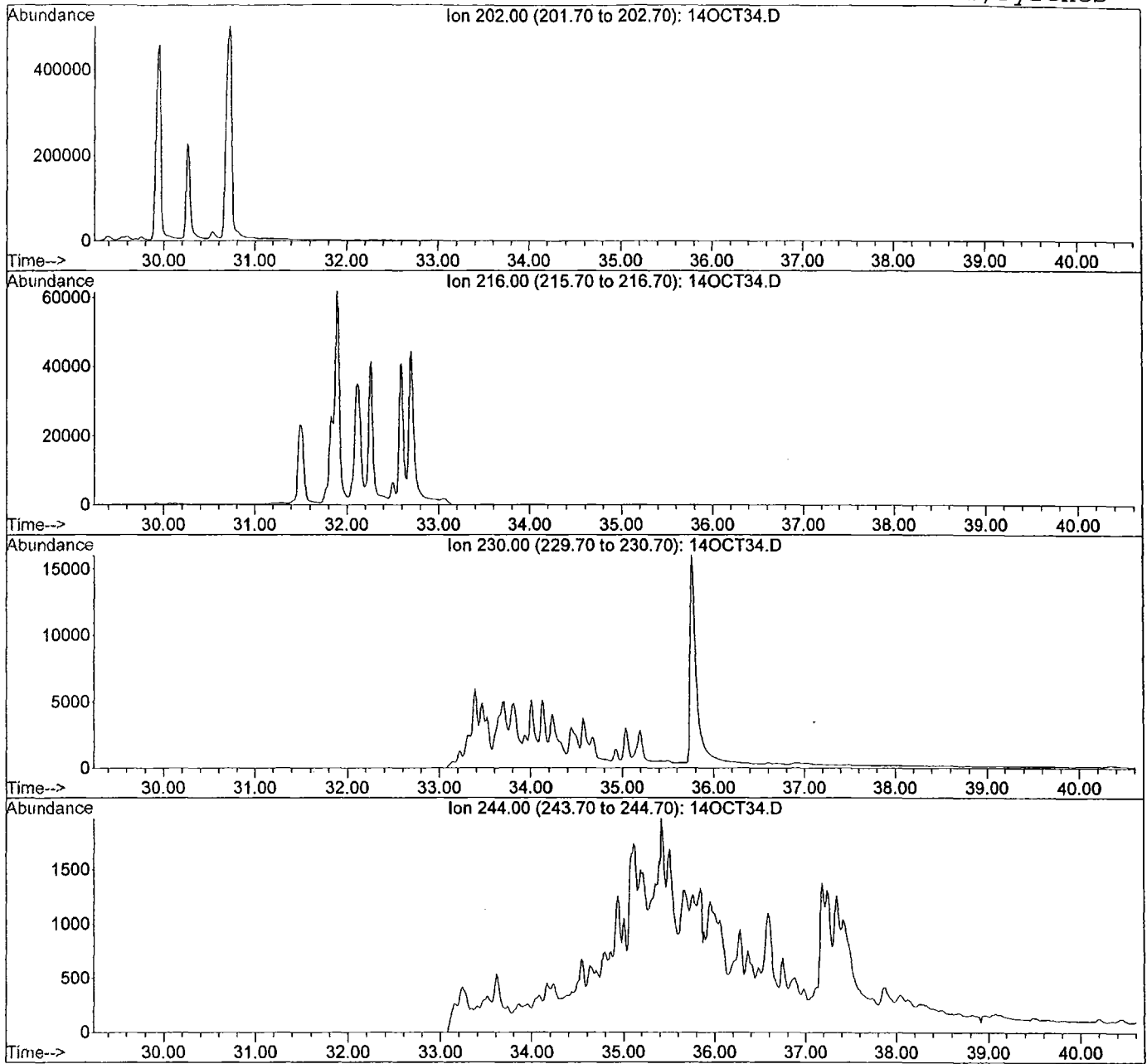
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Instrument: GC/MS Ins Operator: ECC

Dibenzothiophenes



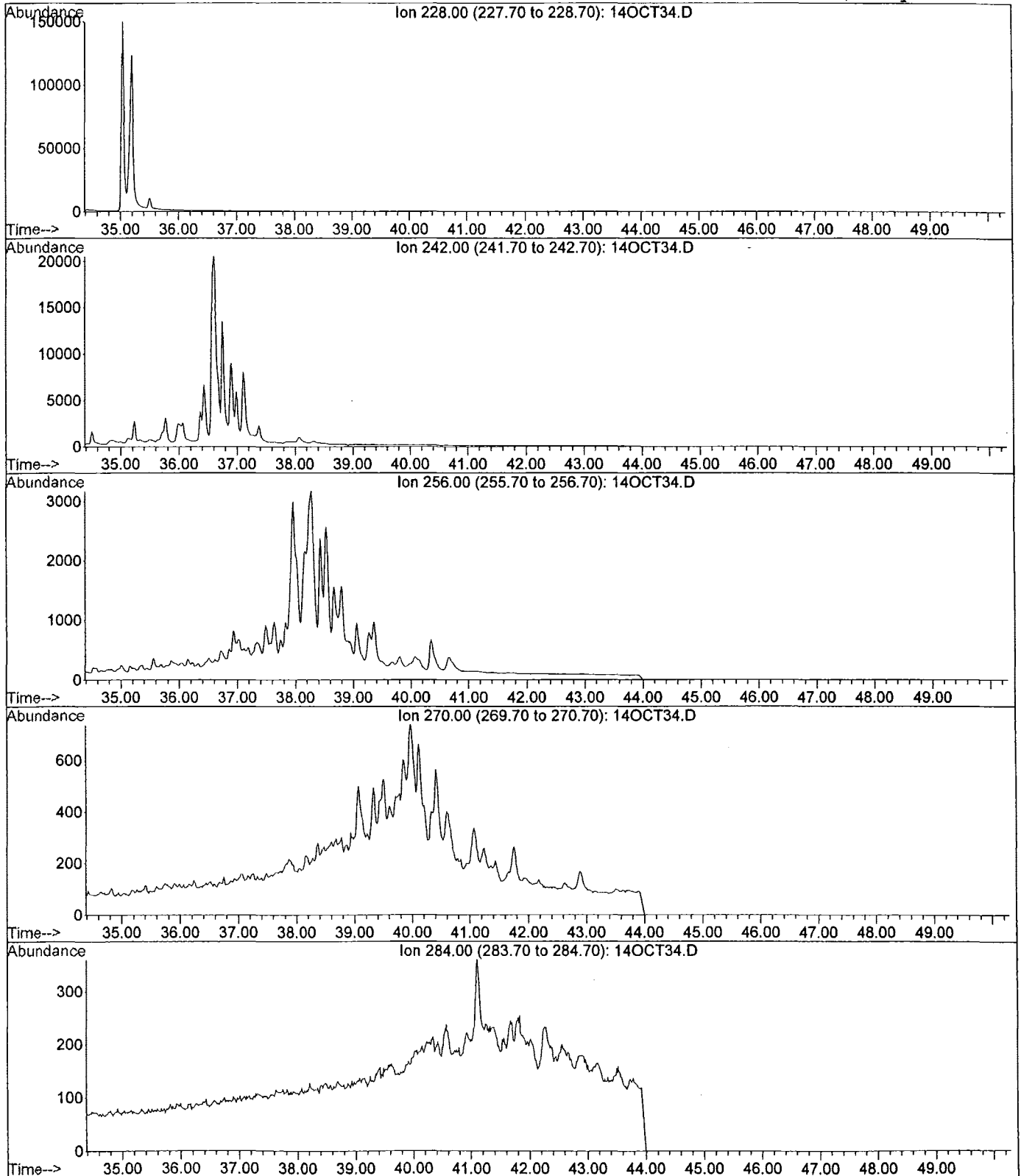
Field ID: B13-12-13
Lab ID: GT020924-05
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Acquired: 16 Oct 2002 2:26 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

Fluoranthenes/Pyrenes

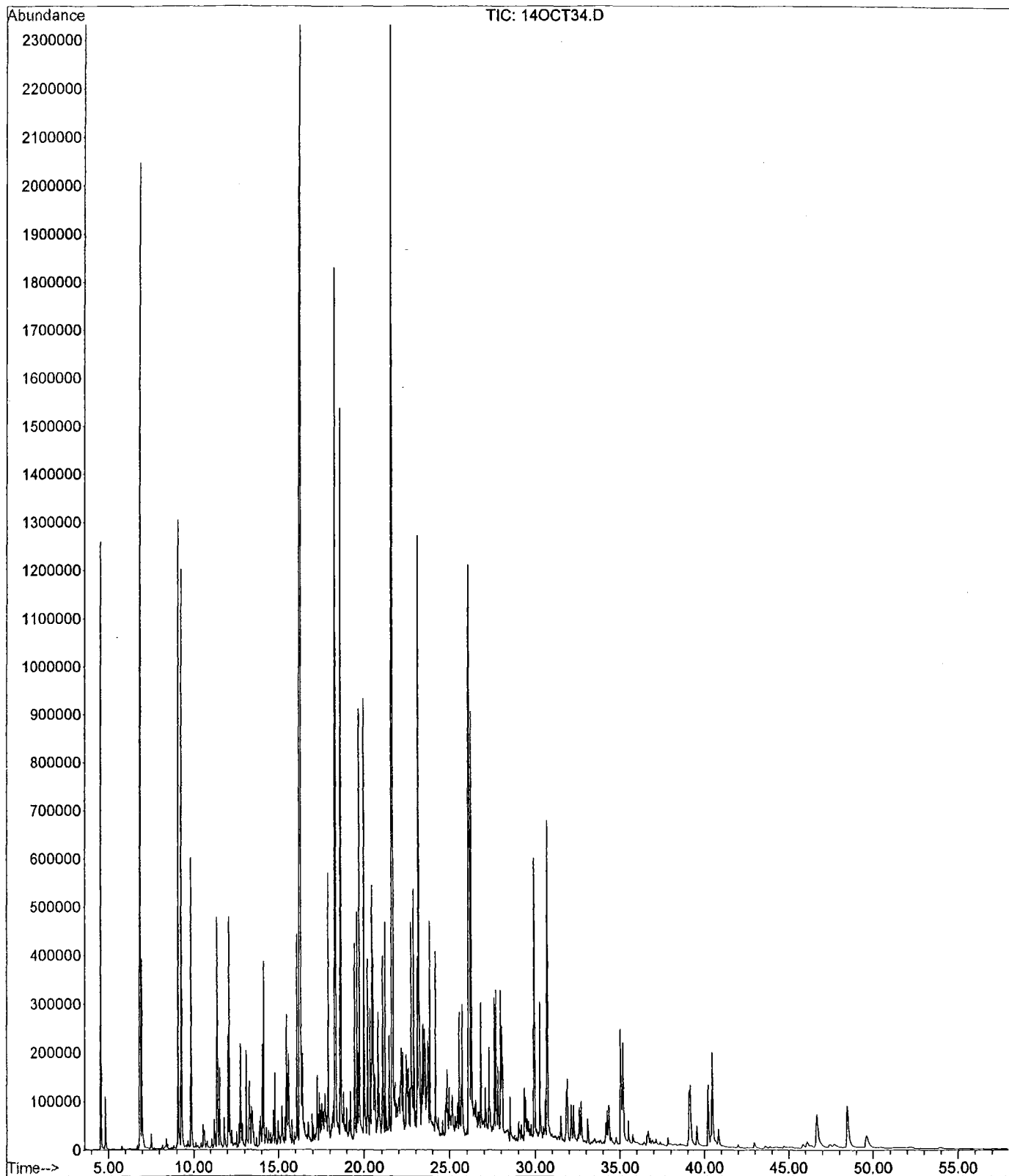


Field ID: B13-12-13
Lab ID: GT020924-05
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Acquired: 16 Oct 2002 2:26 am using AcqMethod SIM4008Z
Instrument: GC/MS Ins Operator: ECC

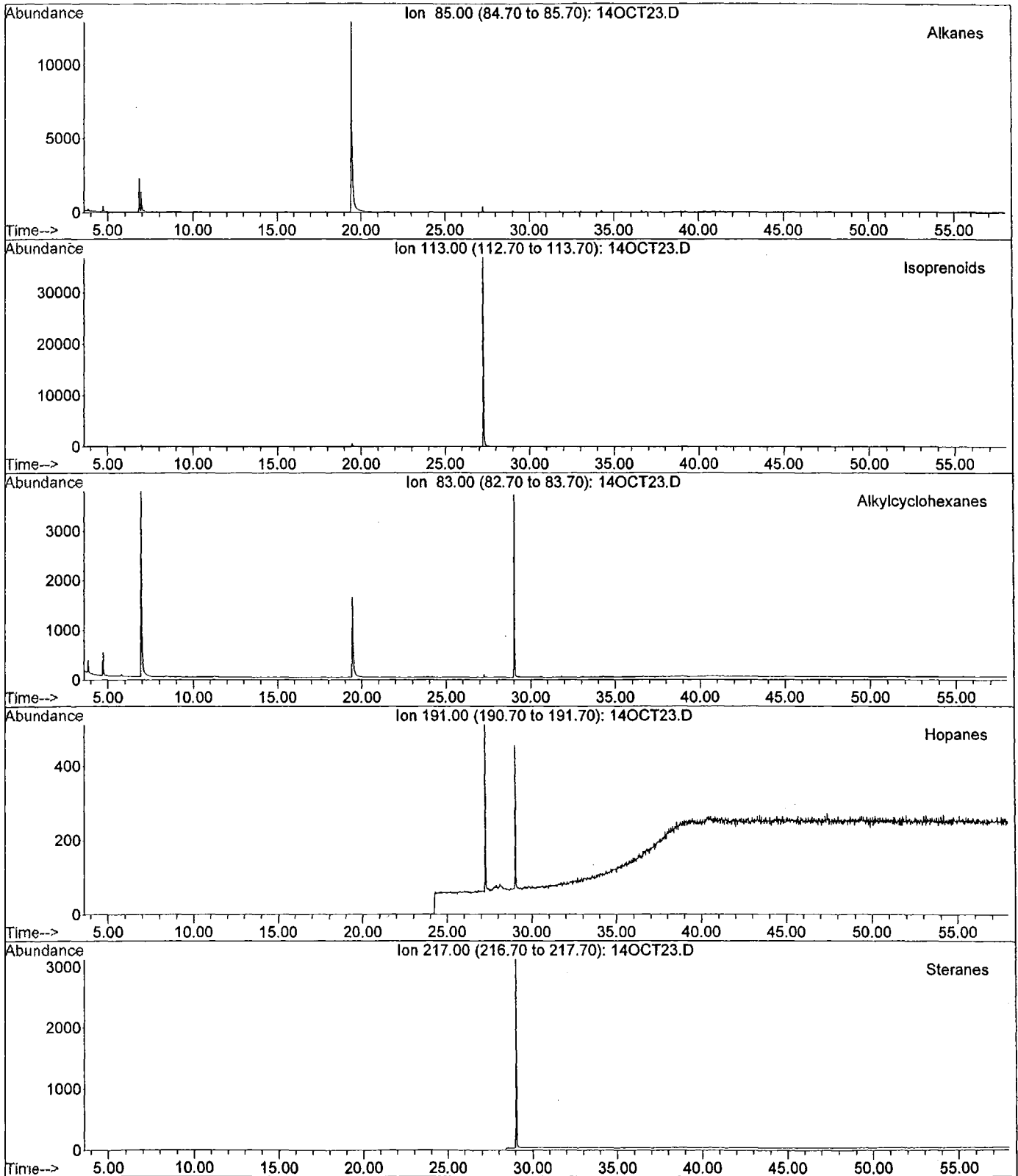
Benz (a) anthracenes/Chrysenes



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Lab ID: GT020924-05
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Instrument: GC/MS Ins Operator: ECC

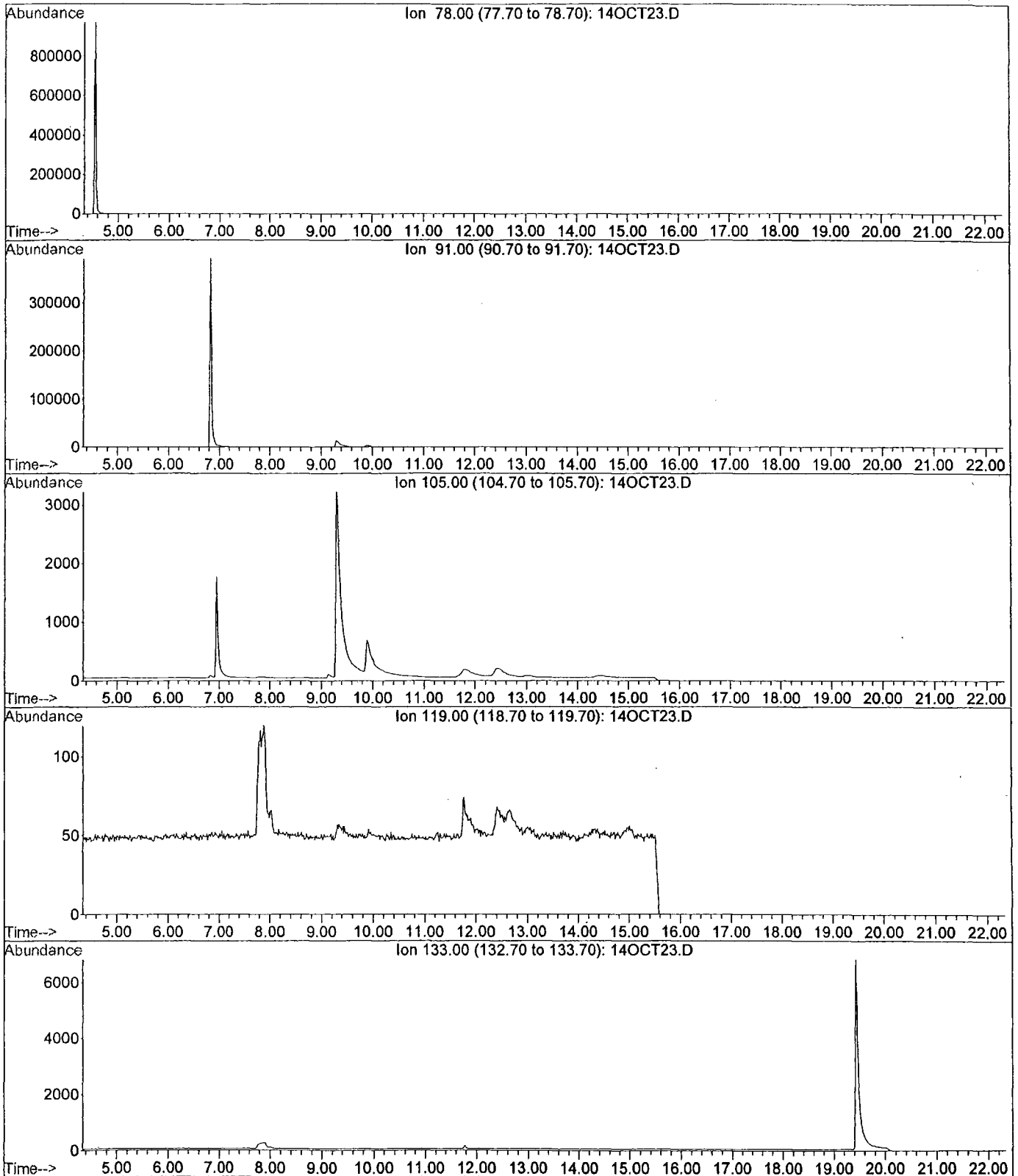


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Lab ID: GT020924-06
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Instrument: GC/MS Ins Operator: ECC



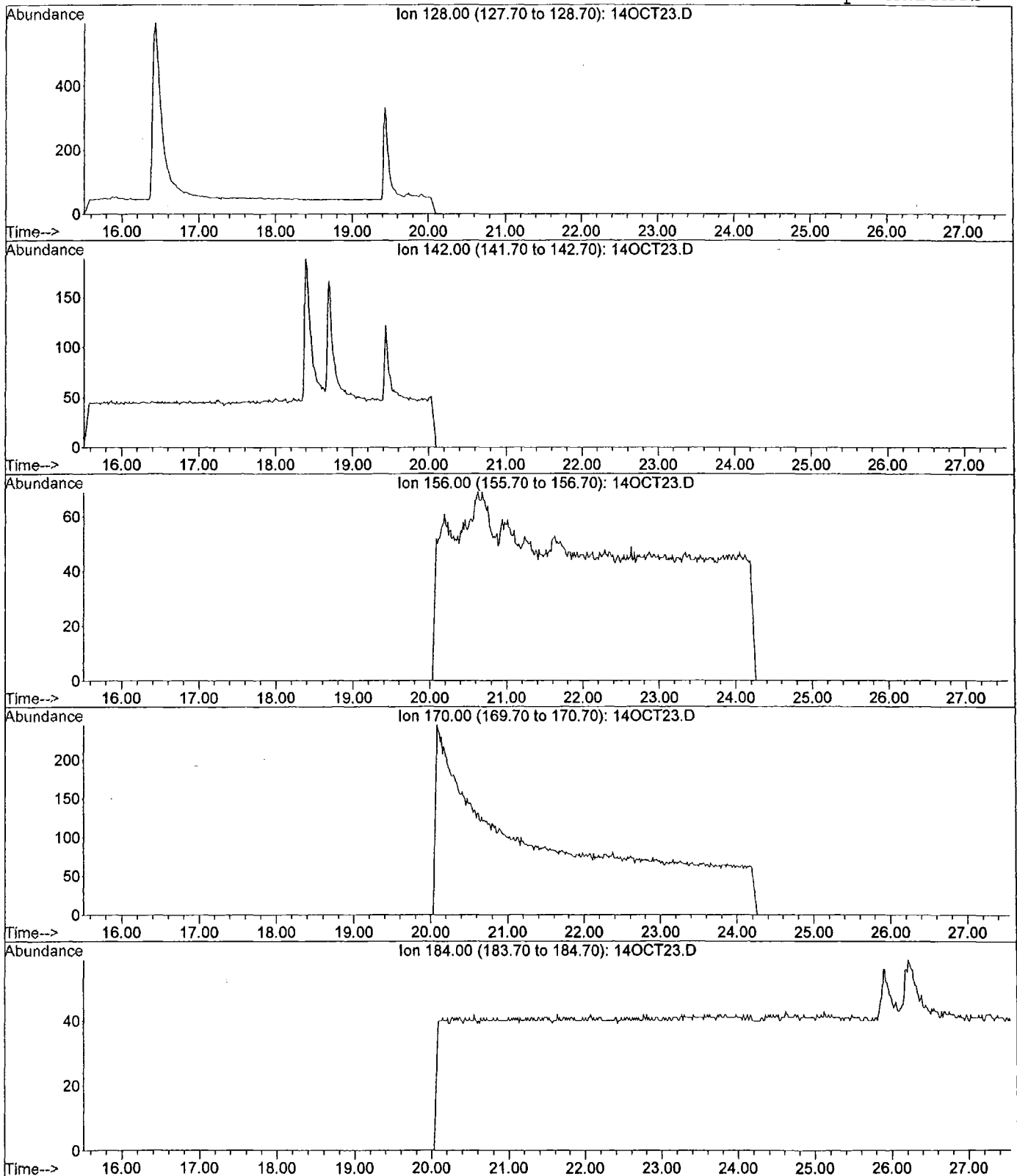
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Instrument: GC/MS Ins Operator: ECC

Benzenes



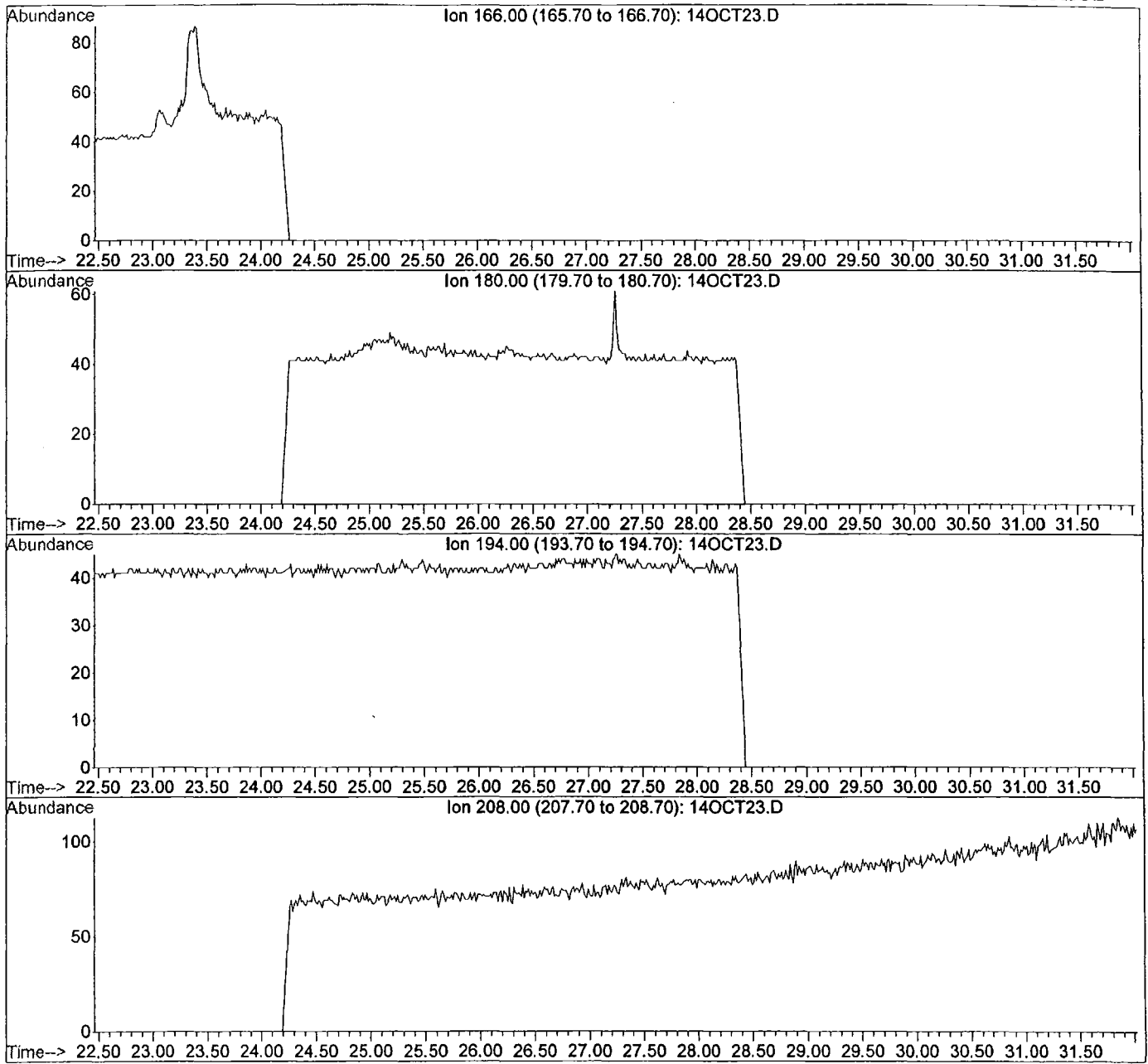
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Instrument: GC/MS Ins Operator: ECC

Naphthalenes



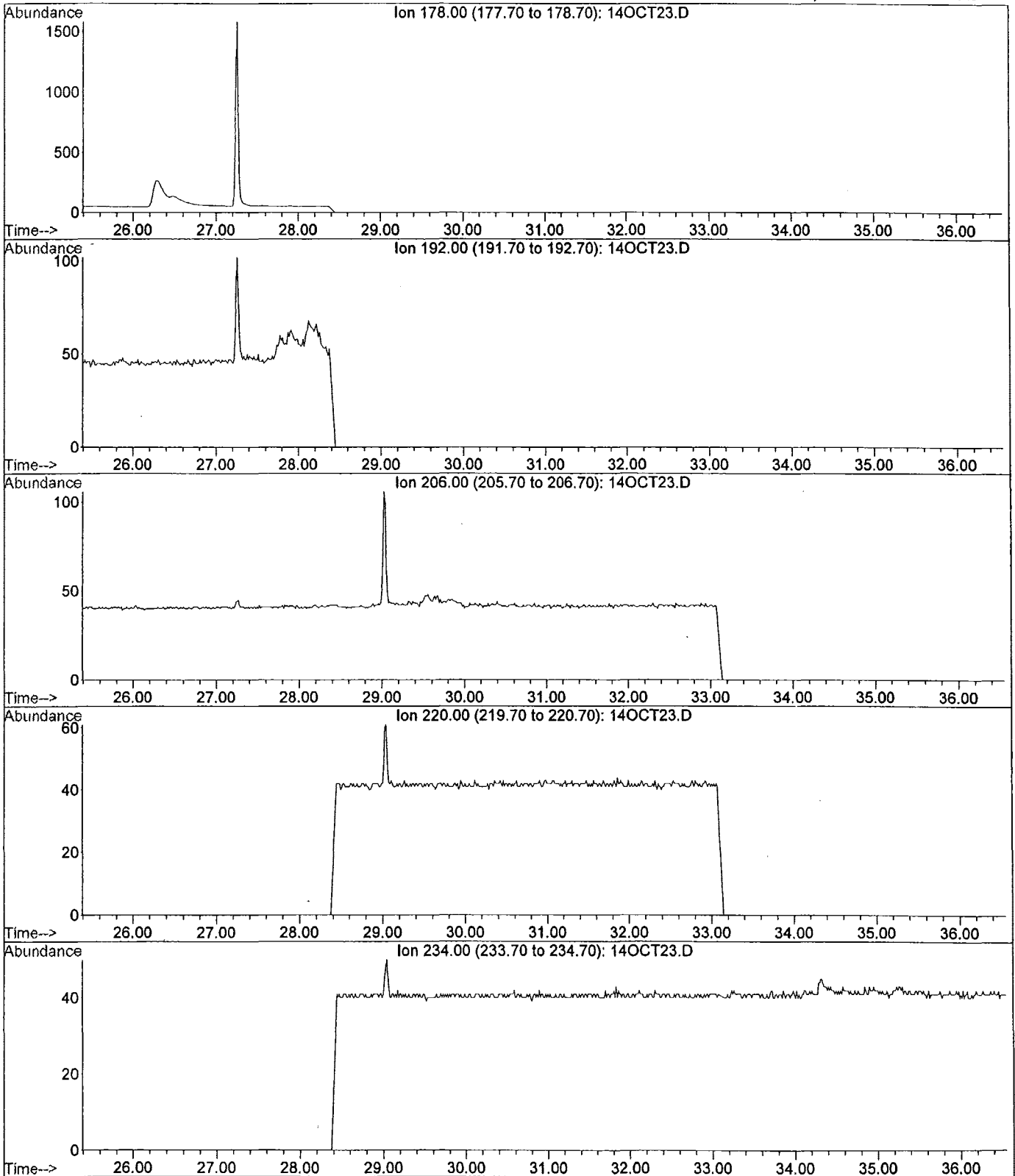
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Instrument: GC/MS Ins Operator: ECC

Fluorenes



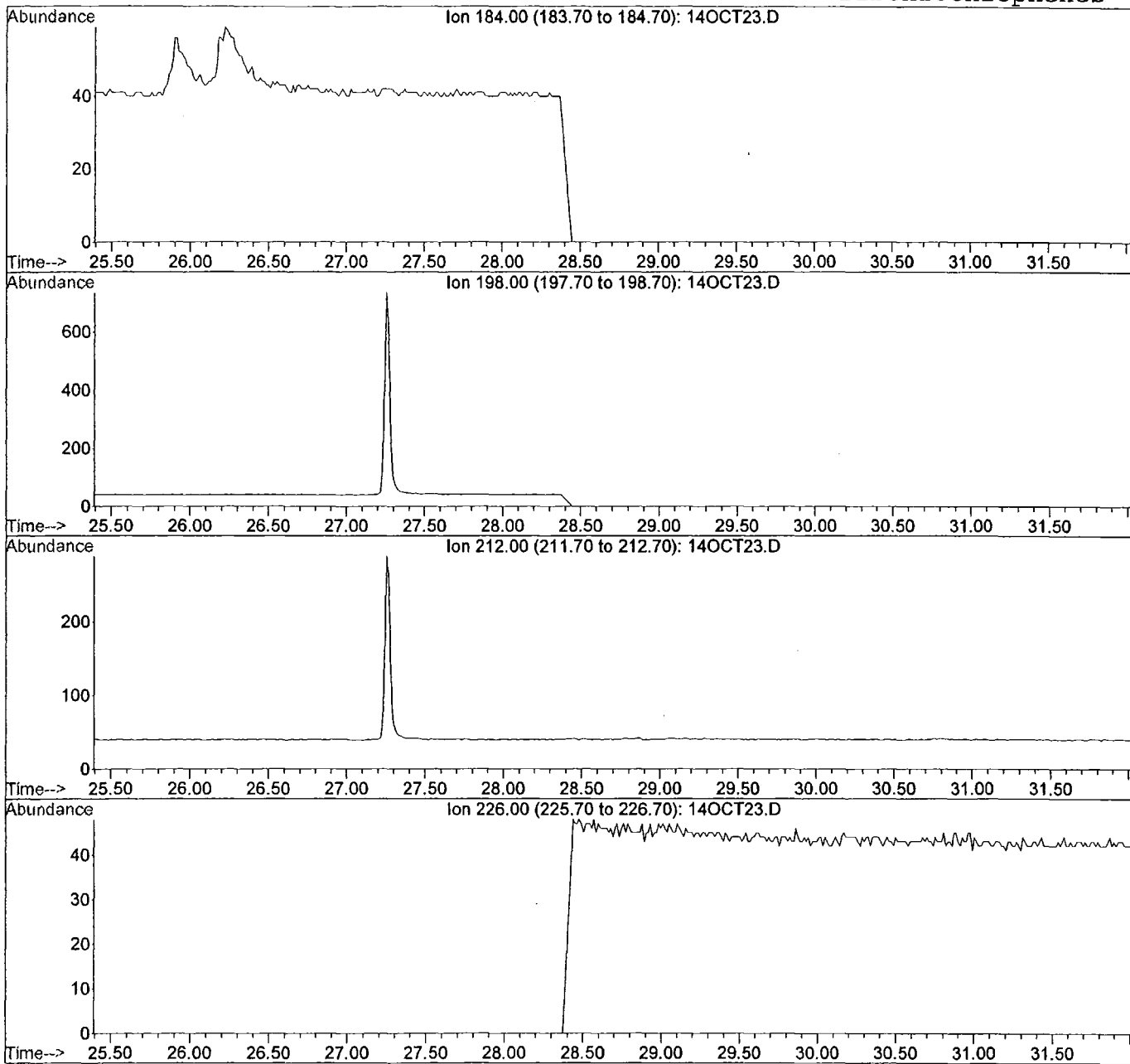
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Phenanthrenes/Anthracenes



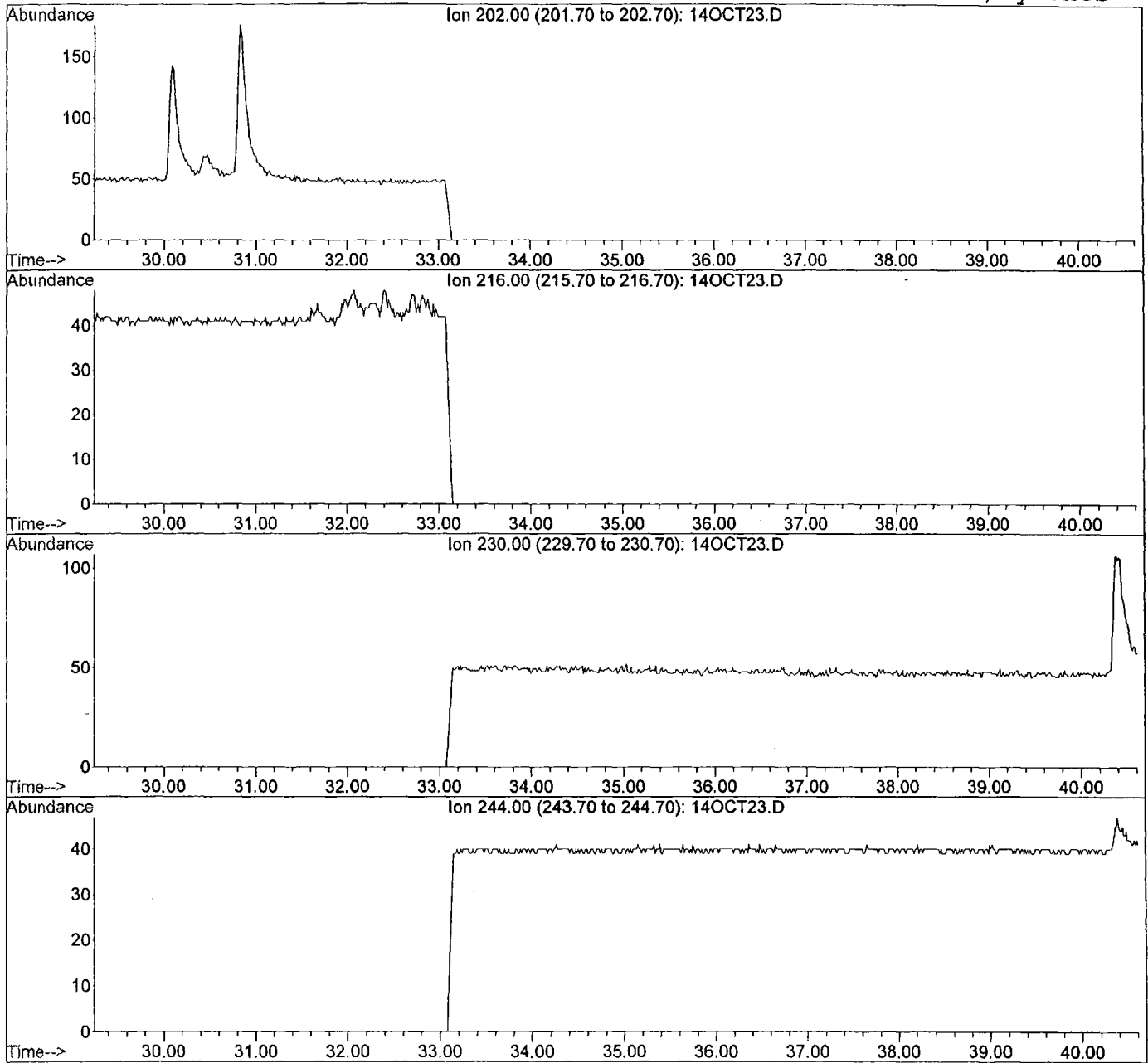
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Dibenzothiophenes



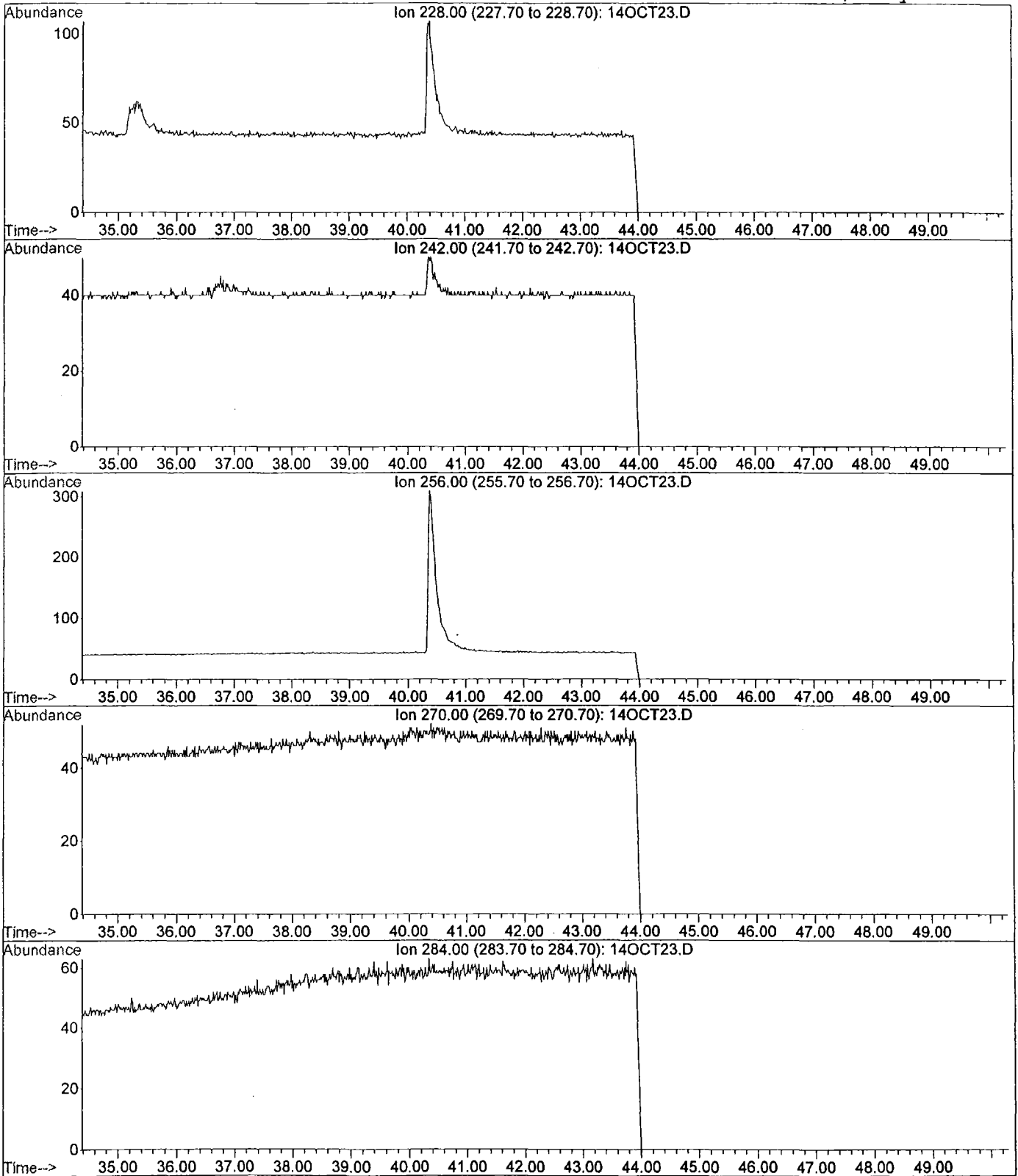
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Fluoranthenes/Pyrenes

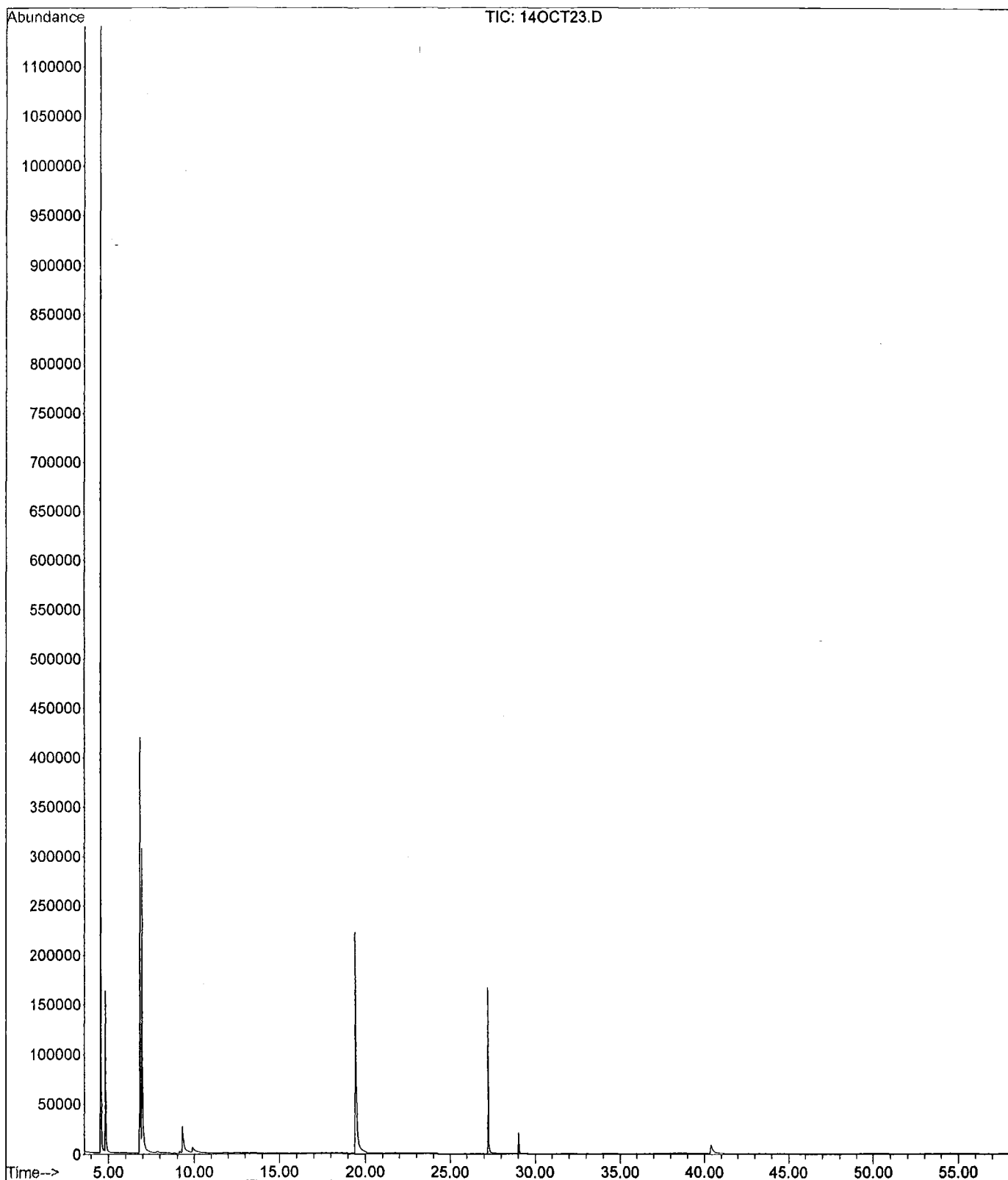


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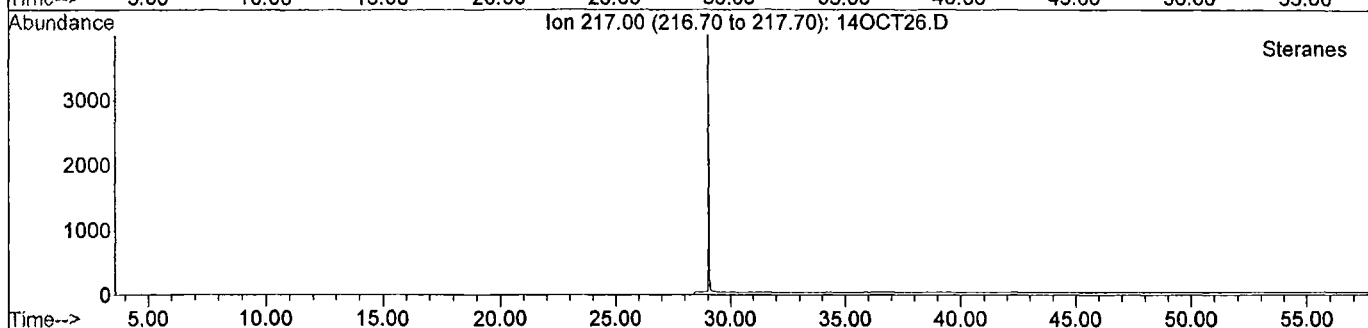
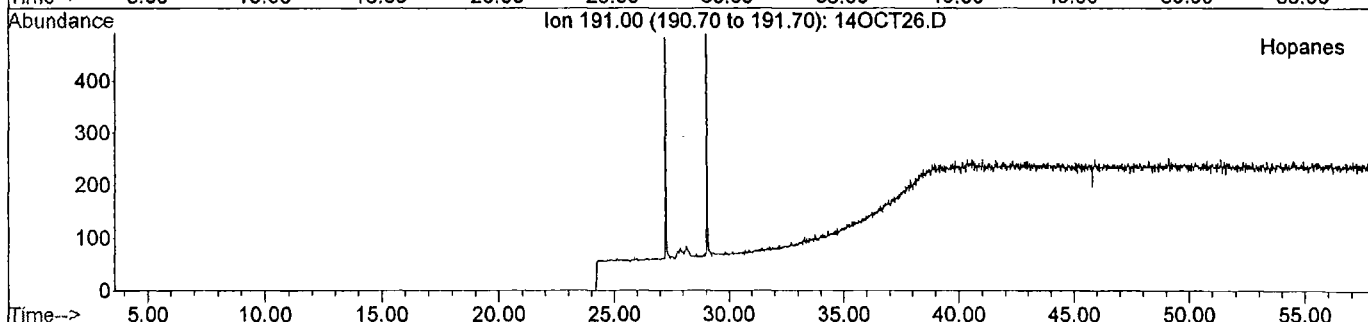
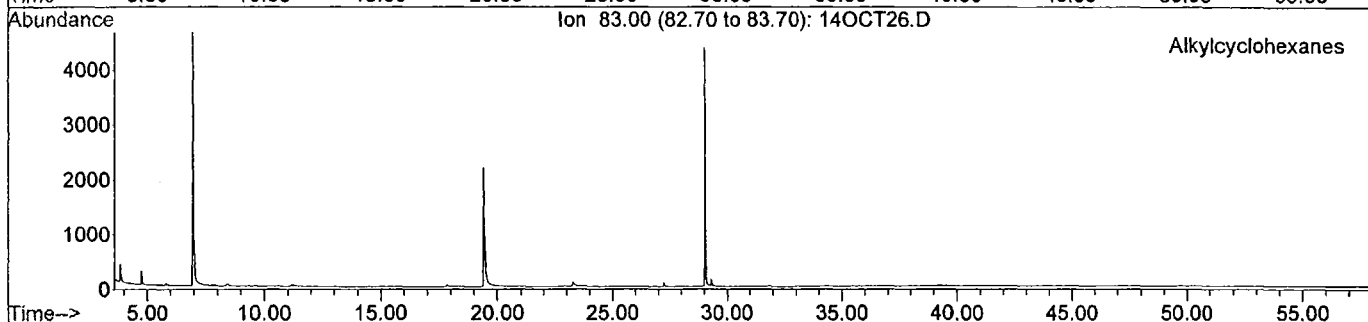
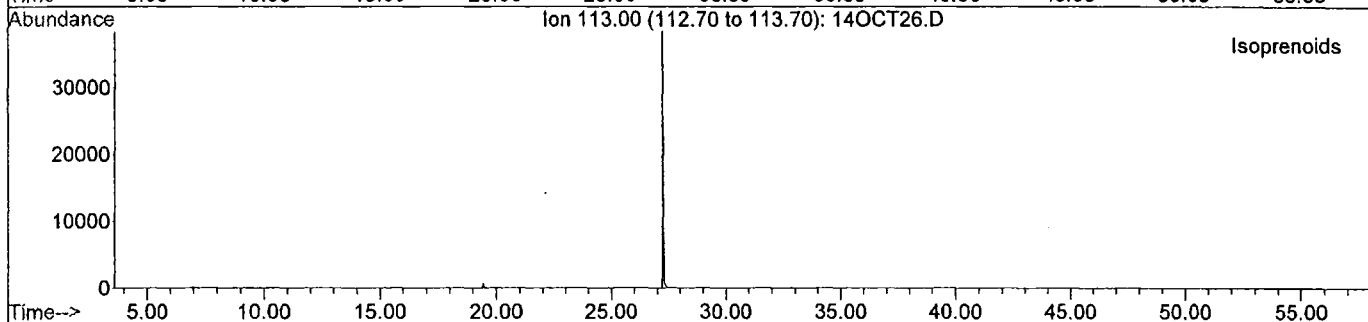
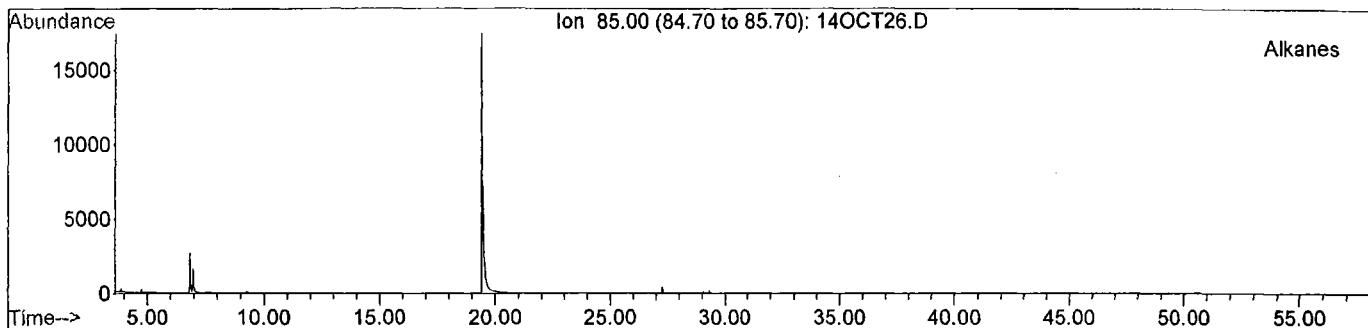
Benz (a) anthracenes/Chrysenes



Field ID: B23-6-8
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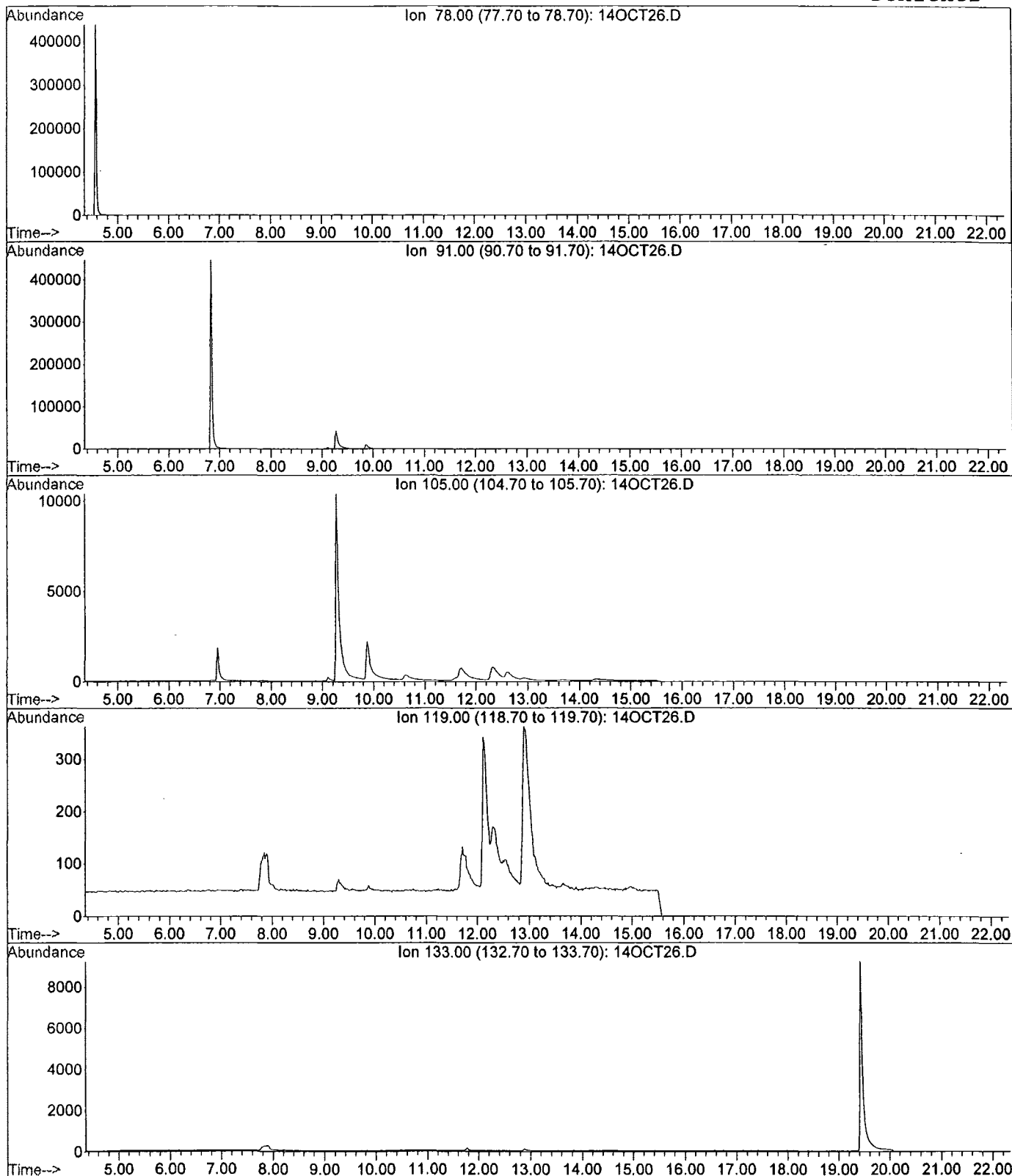


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Instrument: GC/MS Ins Operator: ECC



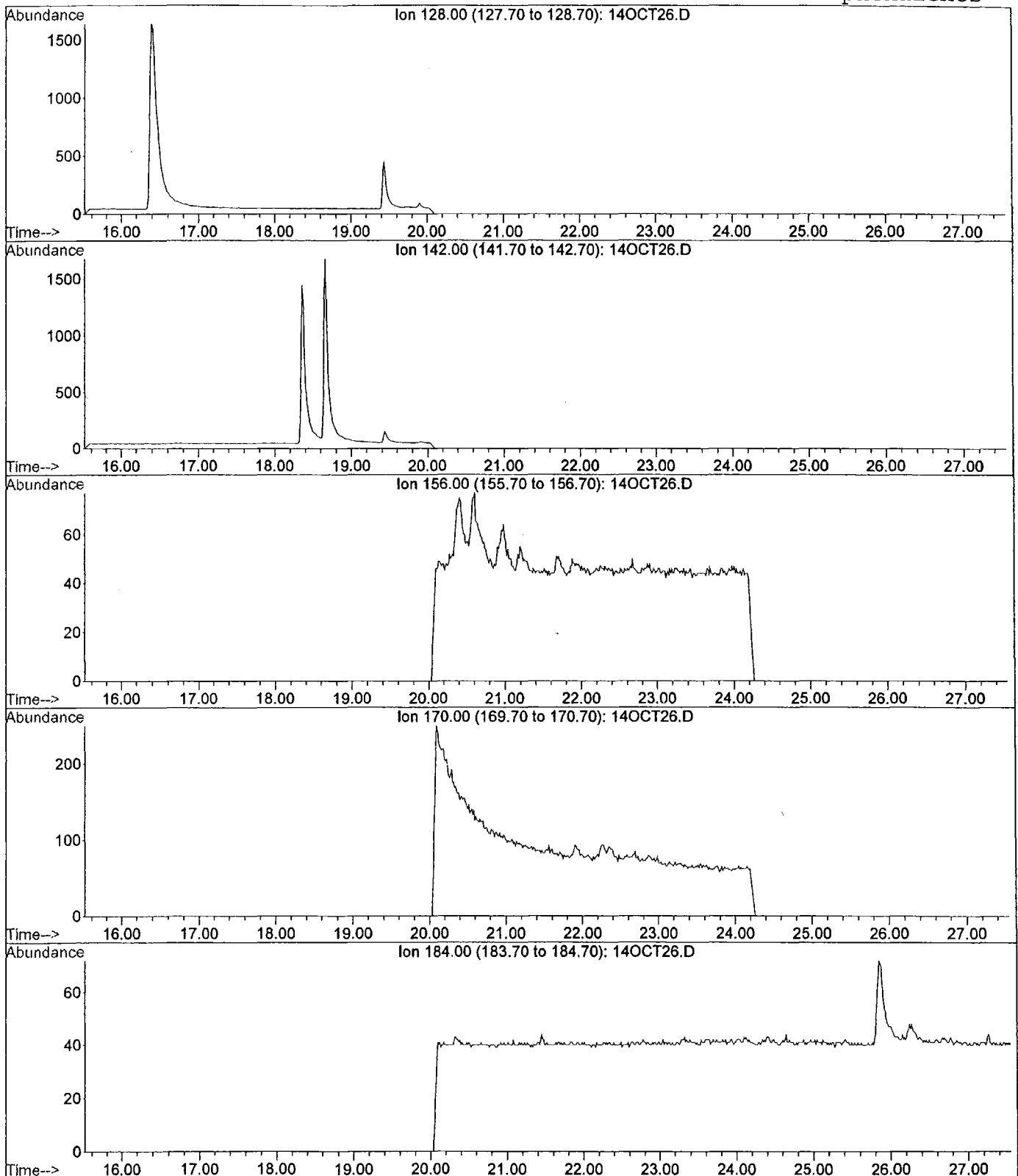
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Benzenes



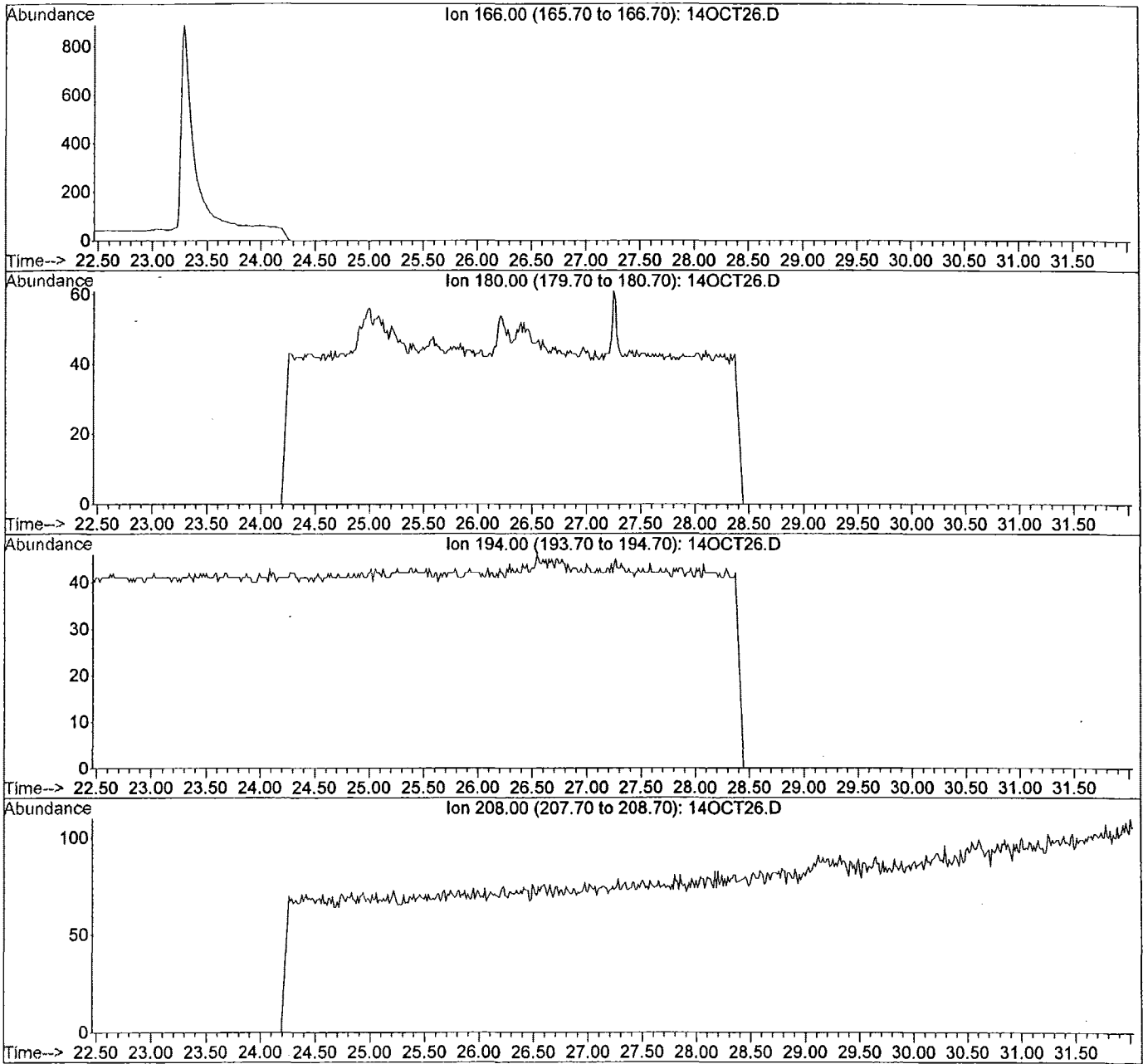
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Naphthalenes



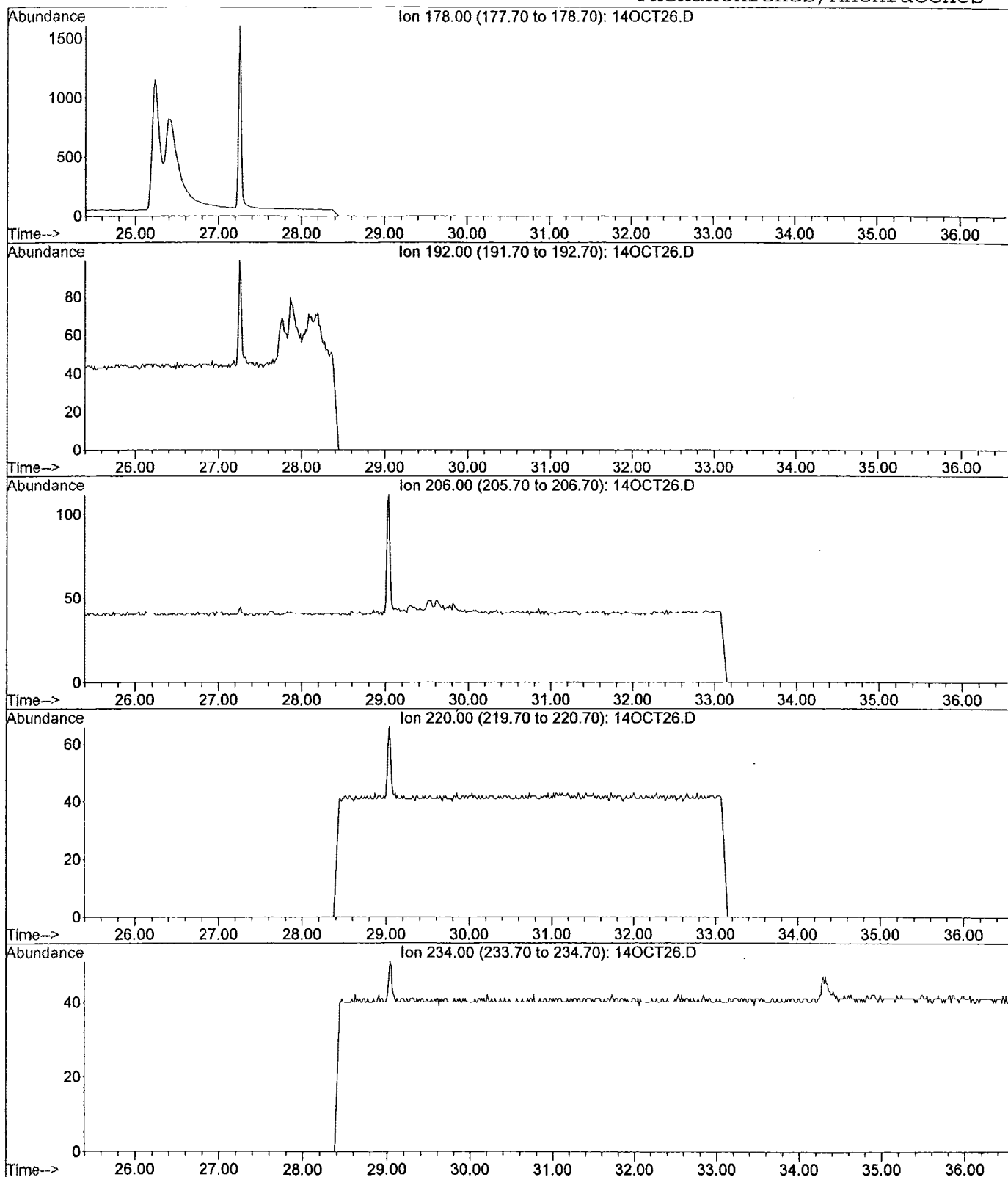
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Fluorenes



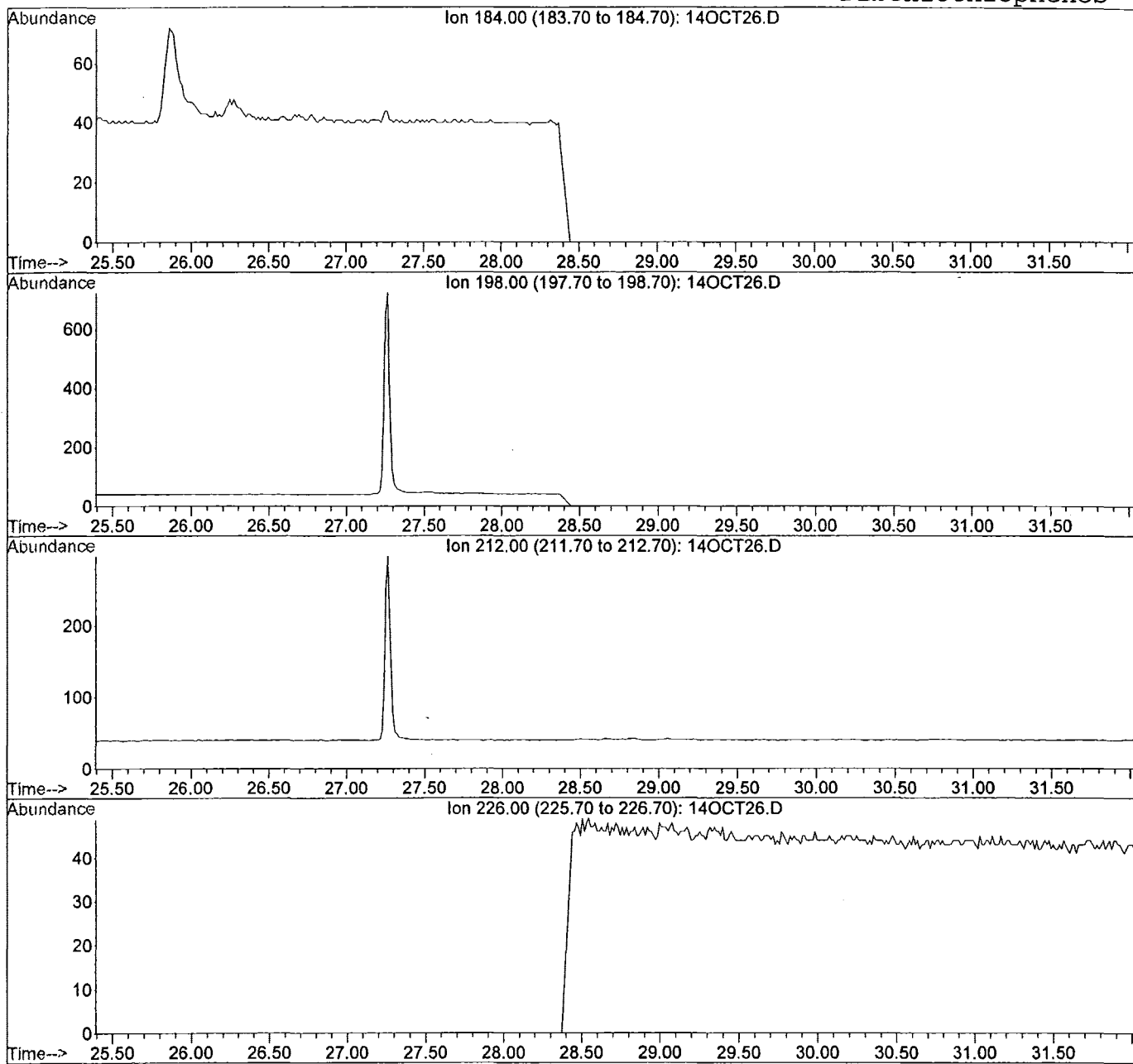
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Instrument: GC/MS Ins Operator: ECC

Phenanthrenes/Anthracenes



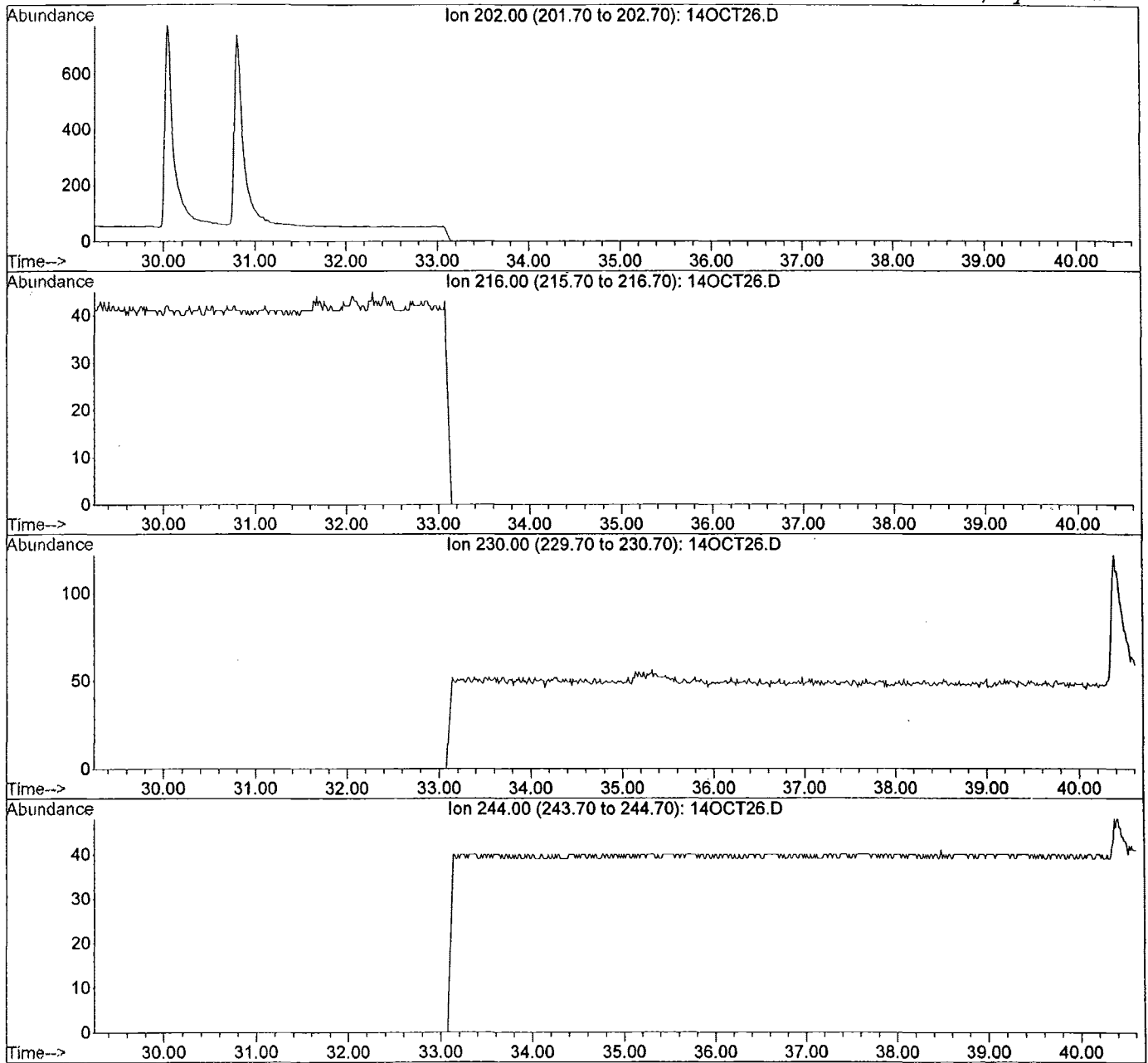
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Dibenzothiophenes



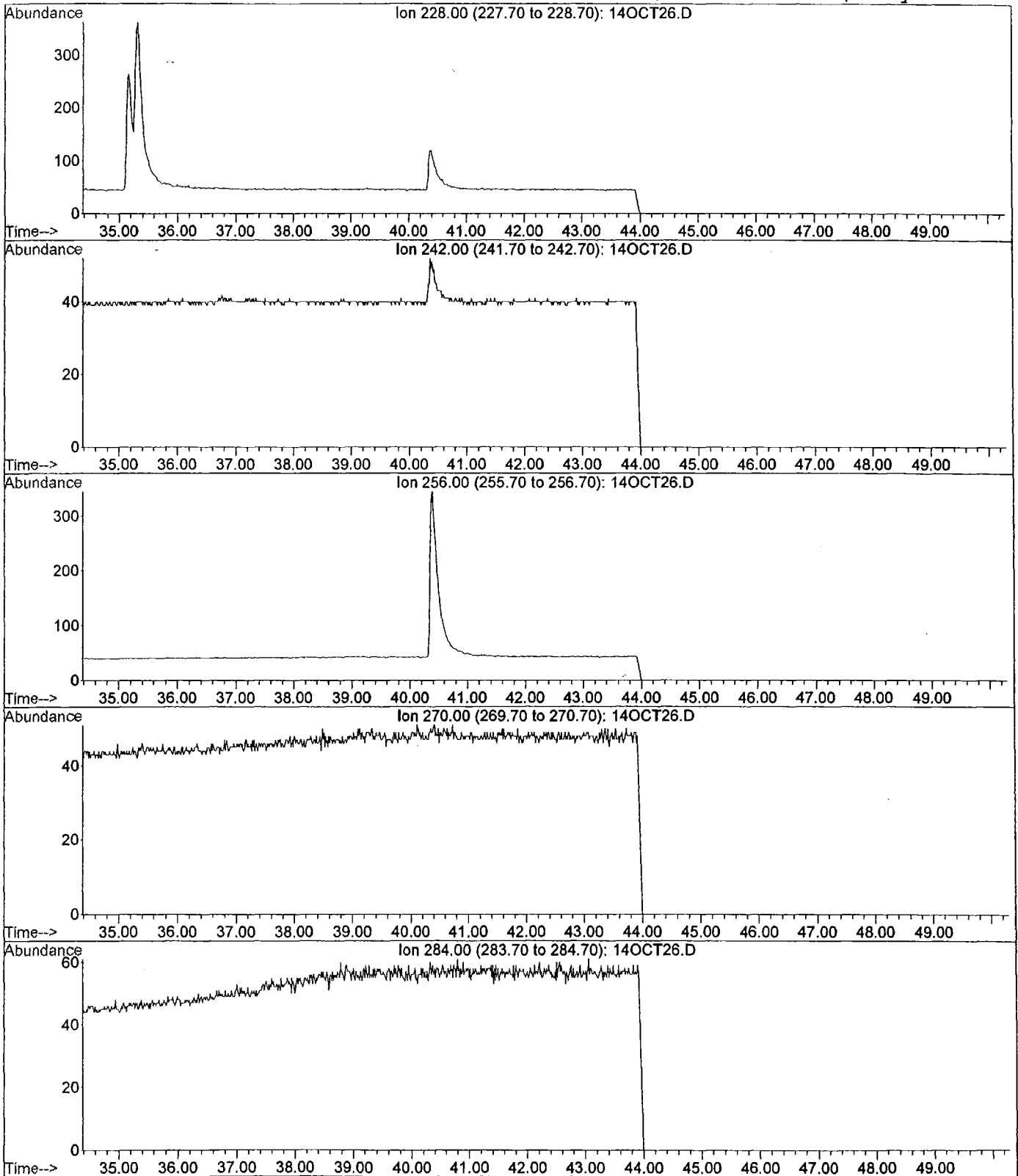
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Instrument: GC/MS Ins Operator: ECC

Fluoranthenes/Pyrenes



Field ID: B23-10-12
Lab ID: GT020924-07
File: G:\1\DATA\021014\14OCT26.D
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Benz (a) anthracenes/Chrysenes



Field ID: B23-10-12
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