Analytical Data Report Package

178821

for

NJDEP

Tier I Part I

September 1986

Submitted by:

H2M Laboratory

HOLZMACHER, McLENDON and MURRELL, P.C.
Consulting Engineers, Environmental Scientists, Architects and Planners
Melville, N.Y. Riverhead, N.Y. Farmingdale, N.Y. Fairfield, N.J.

H2M HOLZMACHER, McLENDON & MURRELL, P.C.

TITLE PAGE

Analytical Data Report Package

for

New Jersey Department of Environmental Protection

Trenton, NJ 08625

Field Sample No.	Laboratory Sample No.	Date of Sample Collection
CD 910-SED1	660530-533	9-11-86
CD 910-SED2	660534-537	9-11-86
CD 910-S1	660538-541	9-11-86
CD 910-S2	660542-545	9-11-86
CD 910-S3	660546-549	9-11-86
CD 910-SW1	660550-553	9-11-86
CD 910-SW2/SW2Q	660554-557	9-11-86
CD 910-TB	660558-561	9-11-86
CD 910-FB	660562-565	9-10-86

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I. Methodology Review

METHODOLOGY SUMMARY

Purgeable Organics:- The procedure used is from 40 CFR Part 136 10/84 edition. The sample is analyzed using the purge and trap technique on a Finnigan OWA GC/MS.

Acid Extractables:- The procedure used is from 40 CFR Part 136 10/84 edition. The sample was extracted by adjusting the pH to <2. The sample was analyzed on a HP GC/MS.

Base/Neutral Extractables:- The procedure used is from the 40 CFR Part 136 10/84 edition. The sample is extracted in a basic medium and analyzed on a HP GC/MS.

Metals:- The procedures used are from the EPA - CLP July 1985 edition. They are modifications of the 200 series EPA Method which are run on a Perkin Elmer 5000 AA with graphite furnace and a Perken Elmer 2380 AA. The digestion procedures are also form the July 1985 EPA - CLP.

II. Sample Analysis Request Form (s)

Form DWM-020
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

NJDEP
File # _____

SAMPLE ANALYSIS REQUEST FORM

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON	Cornell Dubilier	CODE	MAILING ADDRESS 65 Prospect Street Trenton, NJ 08618
SAMPLE LOCATION	S Creek Bed		

SAMPLE COLLECTOR

SAMPLER(S) Name	R Gervasio	Agency	DHWM/BSA	Sampler ID #	HS 26
Name	D Mazur	Agency	DHWM/BSA	Sampler ID #	HS 143

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.	CD 910-Sed 1	SAMPLING DATE	9-10-86	ABSCISSA (Longitude)	
SAMPLE POINT ID	Sed 1	TIME (MIL) SAMPLING BEGAN	1104	ORDINATE (Latitude)	
SAMPLE SOURCE CODE	405	TIME (MIL) SAMPLING FINISHED	1118	ELEVATION	
REFERENCE POINT					

SAMPLING PROCESS

COLLECTION METHOD	Code Grab	Other	SAMPLE TYPE	Code 105	Other
TYPE OF SAMPLER	Code 323	Other Trowel	SAMPLE MATRIX	Code 203	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 72°F °C	VALUE	VALUE	VALUE
WEATHER Clear/windy			

CHAIN-OF-CUSTODY IMPLEMENTED ☑ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	PRECISION & ACCURACY LIMITS	REQUESTED TURNOVER (days)
PP +40	F-400 F-401	660530 PURG ORG		
BN/AE, Pest/PCBs, Tot Cyanide		660531 BN/AE		
Total Phenols, PP Metals	K400 R401	660532 Pest/PCB		
		660533 P.P. Metals CN Phen		

ANALYSIS(ES) AUTHORIZED BY Al Plevin. TITLE HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME H2M LAB	PERSON ACCEPTING SAMPLE Stuart W. Murrell	TITLE LAB SVCE MGR.	
LAB ID #	LAB CONTROL # See Above	DATE 9/12/86	TIME (MIL) 1100 HRS

SAMPLE ANALYSIS REQUEST FORM

File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON	Cornell Dubilier	CODE	MAILING ADDRESS 65 Prospect Street
SAMPLE LOCATION	Stream Sediment		Trenton NJ 08618

SAMPLE COLLECTOR

SAMPLER(S) Name	R Gervasio	Agency	DHWM/BSA	Sampler ID #	#S 76
Name	D Mazur	Agency	DHWM/BSA	Sampler ID #	HS 143

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.	CD910-Sed 2	SAMPLING DATE	9-10-86	ABSCISSA (Longitude)	
SAMPLE POINT ID	Sed 2	TIME (MIL) SAMPLING BEGAN	1119	ORDINATE (Latitude)	
SAMPLE SOURCE CODE	405	TIME (MIL) SAMPLING FINISHED	1131	ELEVATION	
REFERENCE POINT					

SAMPLING PROCESS

COLLECTION METHOD	Code Grab	Other	SAMPLE TYPE	Code 105	Other
TYPE OF SAMPLER	Code 323	Other Trowel	SAMPLE MATRIX	Code 203	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 72°F °C	VALUE	VALUE	VALUE
WEATHER Clear/windy			

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	PRECISION & ACCURACY LIMITS	REQUESTED TURNOVER (days)
PP +40		660534 Purge Orgs.		
BN/AE, Pest/PCB's, Tot-Cyanide)		660535 BN/AE		
Total Phenols/PP Metals	K402 K403	660536 Pest/PCB		
Purgeable Organics	F402 F403	660537 P.P. metals Cn Phen		

ANALYSIS(ES) AUTHORIZED BY Al Pierce TITLE HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME	H2M LAB	PERSON ACCEPTING SAMPLE	Stuart N. Murrell	TITLE	LAB Service Mgr.
LAB ID #		LAB CONTROL # See Above	DATE 9/12/86	TIME (MIL)	1100 HRS

6/84

NJDEP File # _____

SAMPLE ANALYSIS REQUEST FORM

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON: Cornell Dubilier	CODE	MAILING ADDRESS: 65 Prospect ST Trenton NT 08618
SAMPLE LOCATION		

SAMPLE COLLECTOR

SAMPLER(S) Name: L Soloman	Agency: DHWM/BSA	Sampler ID #: HS 160
Name: D Mazur	Agency: DHWM/BSA	Sampler ID #: HS 143

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.: CD910-S1	SAMPLING DATE: 9-10-86	ABSCISSA (Longitude)
SAMPLE POINT ID: Soil 1	TIME (MIL) SAMPLING BEGAN: 1142	ORDINATE (Latitude)
SAMPLE SOURCE CODE: 401	TIME (MIL) SAMPLING FINISHED: 1200	ELEVATION
REFERENCE POINT		

SAMPLING PROCESS

COLLECTION METHOD	Code: Grab	Other	SAMPLE TYPE	Code: 105	Other
TYPE OF SAMPLER	Code: 323	Other: Trowel	SAMPLE MATRIX	Code: 203	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 72°F °C	VALUE	VALUE	VALUE
WEATHER: Clear/windy			

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	PRECISION & ACCURACY LIMITS	REQUESTED TURNOVER (days)
PP + 40	F406+F407	660538	Purge. Orgs.	
BN/AE, Pest/PCB's TCyanide		660539	BN/AE	
Total Phenols, PP metals	K406, K407	660540	P.P.	
Purgeable Organics	F406, F407	660541	P.P. Metals CN Phen	

ANALYSIS(ES) AUTHORIZED BY: Al Pleva

TITLE: HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME: H2M LAB	PERSON ACCEPTING SAMPLE: Stuart W. Murrell	TITLE: LAB Svce MGR.	
LAB ID #	LAB CONTROL #: See Above	DATE: 9/12/86	TIME (MIL): 1100 HRS

FORM DWM 029
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

NJDEP File # _____

SAMPLE ANALYSIS REQUEST FORM

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON: Cornell Dubilier	CODE	MAILING ADDRESS: 65 Prospect ST
SAMPLE LOCATION		Trenton NJ 08618

SAMPLE COLLECTOR

SAMPLER(S) Name	R Gervusio	Agency	DRWM / BSA	Sampler ID #	HS76
Name	D Mazur	Agency	DRWM / BSA	Sampler ID #	HS143

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.	CD910-S2	SAMPLING DATE	9-10-86	ABSCISSA (Longitude)	
SAMPLE POINT ID	Soil 2	TIME (MIL) SAMPLING BEGAN	1208	ORDINATE (Latitude)	
SAMPLE SOURCE CODE	401	TIME (MIL) SAMPLING FINISHED	1214	ELEVATION	
REFERENCE POINT					

SAMPLING PROCESS

COLLECTION METHOD	Code: Grab	Other	SAMPLE TYPE	Code: 105	Other
TYPE OF SAMPLER	Code: 323	Other: Trowel	SAMPLE MATRIX	Code: 203	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 72°F °C	VALUE	VALUE	VALUE
WEATHER Clear/Windy			

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	PRECISION & ACCURACY LIMITS	REQUESTED TURNOVER (days)
PP +40				
BN/AE, Pest/PCBs Tot Cyanide	K404, K405	660542	Purg. Org.	
Total Phenols, PP Metals		660543	BN/AE	
Purgeable Organics	F-404, F-405	660544	PP	
		660545	P.P. Metals CN Phen	

ANALYSIS(ES) AUTHORIZED BY: Al Plevia

TITLE: HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME	H2M LAB	PERSON ACCEPTING SAMPLE	Stuart W. Murrell	TITLE	LAB Svce. Mgr.
LAB ID #		LAB CONTROL #	See Above	DATE 9/12/86	TIME (MIL) 1100 HRS

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5/84

SAMPLE ANALYSIS REQUEST FORM

NJDEP File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON Cornell Dubilier	CODE	MAILING ADDRESS 65 Prospect ST
SAMPLE LOCATION		Trenton NJ 08618

SAMPLE COLLECTOR

SAMPLER(S) Name R Gervaso	Agency DHWM / BSA	Sampler ID # HS76
Name D Mazur	Agency DHWM / BSA	Sampler ID # HS147

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO. CD910-33	SAMPLING DATE 9-11-86	ABSCISSA (Longitude)
SAMPLE POINT ID Background	TIME (MIL) SAMPLING BEGAN 1210	ORDINATE (Latitude)
SAMPLE SOURCE CODE 401	TIME (MIL) SAMPLING FINISHED 1216	ELEVATION
REFERENCE POINT		

SAMPLING PROCESS

COLLECTION METHOD	Code Grab	Other	SAMPLE TYPE	Code 105	Other
TYPE OF SAMPLER	Code 323	Other Trowel	SAMPLE MATRIX	Code 263	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 72°F °C	VALUE	VALUE	VALUE
WEATHER Clear/windy			

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	PRECISION & ACCURACY LIMITS	REQUESTED TURNOVER (days)
PP + 40				
BN/AE, Pest/PCB, Tot Cyanide		660546	Purge Orgs	
Total Phenols, PP Metals	K408, K409	660547	BN/AE	
Purgeable Organics	F408, F409	660548	PP	
		660549	P.P. Metals CN Phen	

ANALYSIS(ES) AUTHORIZED BY Al Pleva

TITLE Hsms I

ANALYZING LABORATORY

CONTRACT LAB NAME H2M LAB	PERSON ACCEPTING SAMPLE Stuart W. Murrell	TITLE LAB Svce. Mgr.	
LAB ID #	LAB CONTROL # See Above	DATE 9/12/86	TIME (MIL) 1100 HRS

FORM SWM-012
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

NJDEP
File # _____

SAMPLE ANALYSIS REQUEST FORM

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON	Cornell Dubilier	CODE	MAILING ADDRESS 65 Prospect St
SAMPLE LOCATION	Surface Water		Trenton NJ 08618

SAMPLE COLLECTOR

SAMPLER(S) Name	R Gerwood	Agency	DiTom / BSA	Sampler ID #	HSms 7C
Name	D Meyer	Agency	DiTom / BSA	Sampler ID #	HS 143

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.	CD910-SW1	SAMPLING DATE	9-10-86	ABSCISSA (Longitude)	
SAMPLE POINT ID	SW-1	TIME (MIL) SAMPLING BEGAN	1056	ORDINATE (Latitude)	
SAMPLE SOURCE CODE	404	TIME (MIL) SAMPLING FINISHED	1101	ELEVATION	
REFERENCE POINT					

SAMPLING PROCESS

COLLECTION METHOD	Code Grab	Other	SAMPLE TYPE	Code 102	Other
TYPE OF SAMPLER	Code 323	Other Glass Bottle	SAMPLE MATRIX	Code 200	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 72°F °C	VALUE	VALUE	VALUE
WEATHER Clear/windy			

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	PRECISION & ACCURACY LIMITS	REQUESTED TURNOVER (days)
PP +40				
Priority Pollutant Metals	B 402	660550	Purge org	
Total cyanide	H400, 404	660551	BN/AE	
Total Phenol	1® 404, 410	660552	PP	
Base Neutrals, Acid Ext, Pest/PCB	I 404, 408 412, 413	660553	P.P. Metals	CN Phen
Purgeable organics	J 406, 409			

ANALYSIS(ES) AUTHORIZED BY Al Plevra

TITLE HSms I

ANALYZING LABORATORY

CONTRACT LAB NAME	H2M LAB	PERSON ACCEPTING SAMPLE	Stuart W. Murrell	TITLE	LAB Succ. Mgr.
LAB ID #		LAB CONTROL #	See Above	DATE 9/12/86	TIME (MIL) 1100 HRS

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FORM [illegible]
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

NJDEP File # _____

SAMPLE ANALYSIS REQUEST FORM

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON	CORNELL DUBILIER	CODE	MAILING ADDRESS 65 PROSPECT ST.
SAMPLE LOCATION	Surface Water		TRENTON, NJ 08618

SAMPLE COLLECTOR

SAMPLER(S) Name	FRANK FARANCA	Agency	DHWM / BSA	Sampler ID #	
Name	DEBBIE MAZUR	Agency	DHWM / BSA	Sampler ID #	HS 143

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.	CD 910 - SW2Q	SAMPLING DATE	9-11-86	ABSCISSA (Longitude)	
SAMPLE POINT ID	SURFACE WATER 2	TIME (MIL) SAMPLING BEGAN	1035	ORDINATE (Latitude)	
SAMPLE SOURCE CODE	404	TIME (MIL) SAMPLING FINISHED	1045	ELEVATION	
REFERENCE POINT	Slightly brn. water				

SAMPLING PROCESS

COLLECTION METHOD	Code Grab	Other	SAMPLE TYPE	Code 102	Other
TYPE OF SAMPLER	Code 323-	Other Glass Bottle	SAMPLE MATRIX	Code 200	Other
DESCRIPTION	(above - ref. pt.)				

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 72°F °C	VALUE	VALUE	VALUE
WEATHER Clear, windy			

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	PRECISION & ACCURACY LIMITS	REQUESTED TURNOVER (days)
PP + 40		660554	Purg Org	
BN/AE, Pesticides/PCB's	I-415, 416, 417, 420, 421, 423, 424	660555	BN/AE	
		660556	PP	
	427	660557	P.P. Metals CN Phen	
Total Phenols	1P 411			
Purgeable Organics	J403, J408			

ANALYSIS(ES) AUTHORIZED BY _____ TITLE _____

ANALYZING LABORATORY

CONTRACT LAB NAME	H2M LAB	PERSON ACCEPTING SAMPLE	Stuart M. Murdoff	TITLE	LAB Service Mgr.
LAB ID #		LAB CONTROL #	See Above	DATE 9/12/86	TIME (MIL) 1100 HRS

6/84

NJDEP File # _____

SAMPLE ANALYSIS REQUEST FORM

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON	Cornell Dubilier	CODE	MAILING ADDRESS 65 Prospect ST
SAMPLE LOCATION	Surface Water		Trenton NJ 08618

SAMPLE COLLECTOR

SAMPLER(S) Name	R Greenwood	Agency	DHWM/BSA	Sampler ID #	HS 76
Name	D Mazur	Agency	DHWM/BSA	Sampler ID #	HS 143

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.	CD910-SW2	SAMPLING DATE	9-11-86	ABSCISSA (Longitude)	
SAMPLE POINT ID	Surface Water 2	TIME (MIL) SAMPLING BEGAN	1035	ORDINATE (Latitude)	
SAMPLE SOURCE CODE	404	TIME (MIL) SAMPLING FINISHED	1045	ELEVATION	
REFERENCE POINT					

SAMPLING PROCESS

COLLECTION METHOD	Code Grab	Other	SAMPLE TYPE	Code 102	Other
TYPE OF SAMPLER	Code 323 -	Other Glass Bottle	SAMPLE MATRIX	Code 200	Other
DESCRIPTION	Slightly brn. water				

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER	
AIR TEMP. 72°F °C	VALUE	VALUE	VALUE	
WEATHER Clear, windy				

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	PRECISION & ACCURACY LIMITS	REQUESTED TURNOVER (days)
PP + 40				
Priority Pollutant Metals	B401	660557	Purg ORGS	
Total Cyanide	H401, 405	660555	BN/AE	
Total Phenol	(P)403, 405	660556	Pest/PCB	
BN/AE, Pesticides/PCB's	I 418, 419 422, 425	660557	P.P. Metals CN	PHEN
Purgeable Organics	I 404, 405			

ANALYSIS(ES) AUTHORIZED BY Al Plevra

TITLE Hsms I

ANALYZING LABORATORY

CONTRACT LAB NAME	HZM LAB	PERSON ACCEPTING SAMPLE	Stuart N. Murrell	TITLE	LAB Svc Mgr.
LAB ID #		LAB CONTROL #	See Above	DATE 9/12/86	TIME (MIL) 1100 HRS

Form DWR-025
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

SAMPLE ANALYSIS REQUEST FORM

NJDEP File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON: Cornell Dubilier	CODE	MAILING ADDRESS: 65 Prospect St
SAMPLE LOCATION		Trenton NJ 08618

SAMPLE COLLECTOR

SAMPLER(S) Name: R Gervasio	Agency: DHWM/BSA	Sampler ID #: H5-76
Name	Agency	Sampler ID #

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO. CD910-TB	SAMPLING DATE 9-11-86	ABSCISSA (Longitude)
SAMPLE POINT ID	TIME (MIL) SAMPLING BEGAN	ORDINATE (Latitude)
SAMPLE SOURCE CODE	TIME (MIL) SAMPLING FINISHED	ELEVATION
REFERENCE POINT		

SAMPLING PROCESS

COLLECTION METHOD	Code: Grab	Other	SAMPLE TYPE	Code: 108	Other: Trip Blank
TYPE OF SAMPLER	Code	Other	SAMPLE MATRIX	Code: 200	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 72°F °C	VALUE	VALUE	VALUE
WEATHER Clear/windy			

CHAIN-OF-CUSTODY IMPLEMENTED. ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	PRECISION & ACCURACY LIMITS	REQUESTED TURNOVER (days)
PP + 40				
PP metals	B-400	660558	Purge Orgs	
Total Cyanide	H-407,411	660559	BN/AE	
Total Phenol	P 400, 401	660560	Pest/PCB	
BN/AE, Pesticides/PCBS	I 400-403	660561	P.P. Metals + CN + Phen	
Purgeable Organics	J 400-401			

ANALYSIS(ES) AUTHORIZED BY: Al Pleva TITLE: HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME: H2M LAB	PERSON ACCEPTING SAMPLE: Stuart W. Murrell	TITLE: LAB Service MGR	
LAB ID #	LAB CONTROL #: See Above	DATE: 9/12/86	TIME (MIL): 1100 HRS

SAMPLE ANALYSIS REQUEST FORM

File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON	Cornell Dubilier	CODE	MAILING ADDRESS 65 Prospect Street Trenton NJ 08618
SAMPLE LOCATION			

SAMPLE COLLECTOR

SAMPLER(S) Name	R Gervase	Agency	DHWM / BSA	Sampler ID #	HS 76
Name	D Mazur	Agency	DHWM / BSA	Sampler ID #	HS 143

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.	CD 910- FB	SAMPLING DATE	9-10-86	ABSCISSA (Longitude)	
SAMPLE POINT ID	Field Blank	TIME (MIL) SAMPLING BEGAN	1008	ORDINATE (Latitude)	
SAMPLE SOURCE CODE	404	TIME (MIL) SAMPLING FINISHED	1018	ELEVATION	
REFERENCE POINT					

SAMPLING PROCESS

COLLECTION METHOD	Code Grab	Other	SAMPLE TYPE	Code 108	Other Field Blank
TYPE OF SAMPLER	Code Bailer / Trowel	Other	SAMPLE MATRIX	Code 200	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 72°F °C	VALUE	VALUE	VALUE
WEATHER Clear/Windy			

CHAIN-OF-CUSTODY IMPLEMENTED ☑ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	PRECISION & ACCURACY LIMITS	REQUESTED TURNOVER (days)
pp + 40				
Total Phenols	1 (P) 408, 409	660562	Purge Orgs	
Total Cyanide	H-402, H-403	660563	BN/AE	
BN/AE, Pesticides/PCBs	I 409-411, 414	660564	Pest/PCB's	
Priority Pollutant Metals	B-403	660565	P.P. Metals	CN + Phen
Purgeable Organics	J410-411			

ANALYSIS(ES) AUTHORIZED BY Al Plera

TITLE HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME H2M LAB	PERSON ACCEPTING SAMPLE Stuart N. Murrell	TITLE LAB Svce Mgr	
LAB ID #	LAB CONTROL # See Above	DATE 9/12/86	TIME (MIL) 1100 HRS

III. Laboratory Chronicle

660552
CD910-3001

LABORATORY CHRONICLE

DATE

RECEIPT/REFRIGERATION 9/12/86

ORGANICS
EXTRACTION

1. Acids 9/15/86
2. Base/Neutrals 9/15/86
3. Pesticides/PCBs 9/18/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 9/24/86
2. Acids 9/22/86
3. Base/Neutrals 9/22/86
4. Pesticides/PCBs 9/30/86, 10/9/86
5. ~~Dioxin~~

Section Supevisor Review & Approval

INORGANICS

1. Metals 9/22/86 - 10/7/86
2. Cyanides 10/3/86 - 10/6/86
3. Phenol 9/23/86-9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval

Quality Control Supervisor Review & Approval

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

LABORATORY CHRONICLE

660564

CD910-FB

DATE

RECEIPT/REFRIGERATION 9/10/86

ORGANICS
EXTRACTION

1. Acids 9/16/86
2. Base/Neutrals 9/16/86
3. Pesticides/PCBs 9/18/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 9/24/86
2. Acids 9/22/86
3. Base/Neutrals 9/22/86
4. Pesticides/PCBs 10/1/86, 10/6/86, 10/9/86
5. ~~Dioxin~~

Section Supevisor Review & Approval Middel

INORGANICS

1. Metals 9/22/86 - 10/7/86
2. Cyanides 10/3/86 - 10/6/86
3. Phenol 9/23/86 - 9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval

Quality Control Supervisor Review & Approval

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

660556?

CD910-SW2/SW2Q

LABORATORY CHRONICLE

DATE

RECEIPT/REFRIGERATION 9/12/86

ORGANICS
EXTRACTION

1. Acids 9/17/86
2. Base/Neutrals 9/16/86
3. Pesticides/PCBs 9/18/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 9/24/86
2. Acids 9/22/86
3. Base/Neutrals 9/22/86
4. Pesticides/PCBs 9/30/86, 10/9/86
5. ~~Dioxin~~

Section Supevisor Review & Approval [signature]

INORGANICS

1. Metals 9/22/86 - 10-7-86
2. Cyanides 10/3/86 - 10/6/86
3. Phenol 9/23/86 - 9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval [signature]

Quality Control Supervisor Review & Approval [signature]

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

660560

CD910-TB

LABORATORY CHRONICLE

DATE

RECEIPT/REFRIGERATION 9/18/86

ORGANICS
EXTRACTION

1. Acids 9/17/86
2. Base/Neutrals 9/16/86
3. Pesticides/PCBs 9/18/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 9/24/86
2. Acids 9/22/86
3. Base/Neutrals 9/22/86
4. Pesticides/PCBs 10/1/86, 10/6/86, 10/9/86
5. ~~Dioxin~~

Section Supevisor Review & Approval [signature]

INORGANICS

1. Metals 9/22/86 – 10/7/86
2. Cyanides 10/3/86 – 10/6/86
3. Phenol 9/23/86 – 9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval [signature]

Quality Control Supervisor Review & Approval [signature]

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

660532
CD910-SED1

LABORATORY CHRONICLE

DATE

RECEIPT/REFRIGERATION 9/12/86

ORGANICS
EXTRACTION

1. Acids 9/15/86 9/24/86
2. Base/Neutrals 9/16/86 9/24/86
3. Pesticides/PCBs 9/19/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 9/26/86
2. Acids 10/6/86
3. Base/Neutrals 10/6/86
4. Pesticides/PCBs 10/1/86, 10/7/86, 10/9/86
5. ~~Dioxin~~

Section Supevisor Review & Approval [signature]

INORGANICS

1. Metals 9/22/86 — 10/7/86
2. Cyanides 10/3/86 — 10/6/86
3. Phenol 9/23/86 — 9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval [signature]

Quality Control Supervisor Review & Approval [signature]

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

660536
CD910-SED2

LABORATORY CHRONICLE

DATE

RECEIPT/REFRIGERATION 9/22/86

ORGANICS
EXTRACTION

1. Acids [illegible]/86 - 9/24/86
2. Base/Neutrals 9/16/86 - 9/24/86
3. Pesticides/PCBs 9/18/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 9/26/86
2. Acids 10/6/86
3. Base/Neutrals 10/6/86
4. Pesticides/PCBs 10/1/86, 10/7/86, 10/9/86
5. ~~Dioxin~~

Section Supevisor Review & Approval [signature]

INORGANICS

1. Metals 9/22/86 — 10/7/86
2. Cyanides 10/3/86 — 10/6/86
3. Phenol 9/23/86 — 9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval [signature]

Quality Control Supervisor Review & Approval [signature]

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

LABORATORY CHRONICLE

660542
CD910-S2

DATE

RECEIPT/REFRIGERATION 9/12/86

ORGANICS
EXTRACTION

1. Acids 9/17/86
2. Base/Neutrals 9/16/86
3. Pesticides/PCBs 9/18/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 9/26/86
2. Acids 9/22/86
3. Base/Neutrals 9/22/86
4. Pesticides/PCBs 10/1/86, 10/7/86, 10/9/86
5. ~~Dioxin~~

Section Supevisor Review & Approval [signature]

INORGANICS

1. Metals 9/22/86 — 10/7/86
2. Cyanides 10/3/86 — 10/6/86
3. Phenol 9/23/86 — 9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval [signature]

Quality Control Supervisor Review & Approval [signature]

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

660540
CD910-S1

LABORATORY CHRONICLE

DATE

RECEIPT/REFRIGERATION 9/16/86

ORGANICS
EXTRACTION

1. Acids 9/18/86, 9/24/86
2. Base/Neutrals 9/18/86, 9/24/86
3. Pesticides/PCBs 9/18/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 9/26/86
2. Acids 10/6/86
3. Base/Neutrals 10/6/86
4. Pesticides/PCBs 10/1/86, 10/7/86, 10/9/86
5. ~~Dioxin~~

Section Supevisor Review & Approval [signature]

INORGANICS

1. Metals 9/22/86 — 10/7/86
2. Cyanides 10/3/86 — 10/6/86
3. Phenol 9/23/86 — 9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval [signature]

Quality Control Supervisor Review & Approval [signature]

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

060548
CD910-S3

LABORATORY CHRONICLE

DATE

RECEIPT/REFRIGERATION 9/12/86

ORGANICS
EXTRACTION

1. Acids 9/12/86 - 9/24/86
2. Base/Neutrals 9/18/86 - 9/24/86
3. Pesticides/PCBs 9/18/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 9/26/86
2. Acids 10/6/86
3. Base/Neutrals 10/6/86
4. Pesticides/PCBs 10/1/86, 10/7/86, 10/9/86
5. ~~Dioxin~~

Section Supevisor Review & Approval [signature]

INORGANICS

1. Metals 9/22/86 — 10/3/86
2. Cyanides 10/3/86 — 10/6/86
3. Phenol 9/23/86 — 9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval [signature]

Quality Control Supervisor Review & Approval [signature]

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

660556MSD
CD910-SW2/SW2Q

LABORATORY CHRONICLE

DATE

RECEIPT/REFRIGERATION 9/12/86

ORGANICS
EXTRACTION

1. Acids 9/18/86 / 9/24/86
2. Base/Neutrals 9/18/86, 9/24/86
3. Pesticides/PCBs 9/19/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 6/24/86
2. Acids 10/6/86
3. Base/Neutrals 10/6/86
4. Pesticides/PCBs 9/30/86, 10/1/86, 10/6/86
5. ~~Dioxin~~

Section Supevisor Review & Approval [signature]

INORGANICS

1. Metals 9/23/86 – 10/7/86
2. Cyanides 10/3/86 – 10/6/86
3. Phenol 9/23/86 – 9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval [signature]

Quality Control Supervisor Review & Approval [signature]

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

600556MS
CD910-SW02/SW2Q

LABORATORY CHRONICLE

DATE

RECEIPT/REFRIGERATION 9/18/86

ORGANICS
EXTRACTION

1. Acids 9/18/86 / 9/24/86
2. Base/Neutrals 9/18/86 / 9/24/86
3. Pesticides/PCBs 9/18/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 6/24/86
2. Acids 10/6/86
3. Base/Neutrals 10/6/86
4. Pesticides/PCBs 9/30/86, 10/1/86, 10/6/86
5. ~~Dioxin~~

Section Supevisor Review & Approval [signature]

INORGANICS

1. Metals 9/22/86 — 10/7/86
2. Cyanides 10/3/86 — 10/6/86
3. Phenol 9/23/86 — 9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval [signature]

Quality Control Supervisor Review & Approval [signature]

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

660532MS
CD910-SED1

LABORATORY CHRONICLE

DATE

RECEIPT/REFRIGERATION 9/18/86

ORGANICS
EXTRACTION

1. Acids 9/18/86 9/24/86
2. Base/Neutrals 9/18/86 9/24/86
3. Pesticides/PCBs 9/19/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 9/26/86
2. Acids 10/6/86
3. Base/Neutrals ~~10/1/86~~ HLE 10/6/86
4. Pesticides/PCBs 10/1/86, 10/7/86
5. ~~Dioxin~~

Section Supervisor Review & Approval [signature]

INORGANICS

1. Metals 9/22/86 — 10/7/86
2. Cyanides 10/3/86 — 10/6/86
3. Phenol 9/23/86 — 9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval [signature]

Quality Control Supervisor Review & Approval [signature]

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

660532MSD
CD910-SED1

LABORATORY CHRONICLE

DATE

RECEIPT/REFRIGERATION 9/12/86

ORGANICS
EXTRACTION

1. Acids 9/15/86 / 9/24/86
2. Base/Neutrals 9/18/86 / 9/24/86
3. Pesticides/PCBs 9/19/86
4. ~~Dioxin~~

ANALYSIS

1. Volatiles 9/26/86
2. Acids 10/6/86
3. Base/Neutrals 10/6/86
4. Pesticides/PCBs 10/1/86, 10/7/86
5. ~~Dioxin~~

Section Supevisor Review & Approval [signature]

INORGANICS

1. Metals 9/22/86 — 10/7/86
2. Cyanides 10/3/86 — 10/6/86
3. Phenol 9/23/86 — 9/26/86

OTHER ANALYTES

Section Supervisor Review & Approval [signature]

Quality Control Supervisor Review & Approval [signature]

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

REVISED 8/85

IV NON CONFORMANCE SUMMARY AND CASE NARRATIVE

N.J. D.E.P.

X GC/MS Volatiles
X GC/MS Extractables
X Pesticides/PCB's
GC-Volatiles
X Inorganics

IV. Case Narrative for samples

CD 910-SW2 & SW2Q	660554
CD 910-SW1	660550
CD 910-FB	660562
CD 910-TB	660558
CD 910-SED1	660530
CD 910-SED2	660534
CD 910-S1	660538
CD 910-S2	660542
CD 910-S3	660546

GC/MS Volatiles

The samples, trip blank, field blank and method blank contained and early eluting compound. The only mass detected had a mass/charge ratio of 44. When searching the National Bureau of Standard library all three library choices gave an equally good probability of a match. These compounds are 1) carbon dioxide, 2) nitrogen oxide and 3) mono ammonium salt of carbamic acid. Since the mass range necessary to distinguish between these three compounds is lower than the scan range for the analysis of the purgeable organic targets compounds, no definite identification of this compound can be made. The possibility exists that this compound is carbon dioxide, since this is used in the GC/MS laboratory and was found in our method blank as well. Therefore, it is labeled as unknown (carbon dioxide) on the tentatively identified report form.

Unexplained high levels of methylene chloride were found in the matrix spike duplicates of samples 660530 (soil) and 660554 (water). Since these compounds were only found in very low levels in the samples, it is assumed to be a secondary contamination.

IV. Case Narrative for samples: GC/MS extractables

CD 910 - SW 2	660555
CD 910 - SW 1	660551
CD 910 - FB	660563
CD 910 - TB	660559
CD 910 - SED 1	660531
CD 910 - SED 2	660535
CD 910 - S 1	660539
CD 910 - S 2	660543
CD 910 - S 3	660547

The soil and sediment samples reporting limit was elevated to 20,000 ug/kg to adjust for the amount of sample extracted and the inability to concentrate these samples to less than 5 ml. Compounds were identified at concentrations below this level and were therefore reported with the qualifier "J".

Bis-2-ethyl hexyl phthalate was not found in our method blank but usually is found at low levels. Some samples contained low levels of this compound and had to be reported as positive values without the qualifier "B" even though its presence is suspect.

Sample CD 910SED-1 had low recoveries for 2,4-dinitrotoluene and 4-nitrophenol. All other compounds had fair recoveries. The low recoveries may have been matrix related.

Sample CD 910 S 3 was subjected to a GCP cleanup prior to analysis which may account for the poor recovery of the base neutral surrogates nitrobenzene-d 5 and 2-fluorobiphenyl.

Case Narrative for Pesticides/PCB's Analysis

Deviations

After completion of the 72 hour sequence, it was noticed that the response factors for the primary column at the end of the second day did not meet the required limits for difference. All sample analyses performed subsequently were reanalyzed in a new 72 hour sequence.

The retention times of the secondary column exhibited fluctuations. The identifications could therefore not be based soley on the retention time window of only one standard injection, but the first calibration standard of each day was used instead.

Reporting levels

Elevated quantification limits were reported for all soil samples for all pesticides eluting after heptachlor epoxide and before p,p'-DDT due to interference by the high amount of aroclor 1254 found. The limits for some early eluting pesticides had to also be elevated because they were masked by unknown compounds.

Unknown compounds were quantified with an average response factor of 100 and reported if the value exceeded 0.5 ug/l or 300 ug/kg. For reporting the aroclor 1260 in the presence of aroclor 1254 it is estimated that approximate levels of one twentith of the aroclor 1254 could be detected.

Sample SW2/SW2Q showed a wide peak within the elution time window of Endosulfan I on both columns. Because Endosulfan I may be present, fused with an unknown compound, the reporting limit was raised.

Matrix Spike (MS) Matrix Spike Duplicate (MSD)

Sample NJDEP #CD910-SED1, which was used for determination of spike recoveries contained aroclor 1254 and early eluting unknown compounds. The levels were so high that they interfered with the detection of the low levels of the spiking compounds therefore no recoveries or precision values could be calculated for the MS and MSD.

For confirmatory identification of non-spiked compounds the confirmatory runs of the unspiked samples were used.

Elevated limits are reported for the targeted compounds pp' DDE found on primary column in the MS/MSD, but was not confirmed on the sample confirmatory run.

The amount of aroclor 1254 was higher in the unspiked sample than in the two analyses of the spiked sample. This could be due to an inhomogeneous sample matrix.

For sample CD910-FB, the recovery of dibutylchlorendate was 1000%, this is probably due to unusually high phthalate contamination of this sample. All soil surrogate recoveries are outside the quality control limits for the recovery of dibutylchlorendate as well. It is assumed that an interference at the DBC retention time is causing these unusually high recoveries.

As mentioned previously the soil samples had elevated detection limits for several compounds due to interferences.

Samples SED1, SED2, S-1, S-2 and S-3 all had levels of the aroclor 1245 that interfered with the reporting of several pesticides. These pesticides includ heptaclor epoxide, endosulfan I, dieldrin, 4,4'-DDE, endrin, endosulfan II, 4,4'-DDD, endosulfan sulfate, 4,4'DDT, chlordane, toxaphene and the other aroclors listed.

Unknown compounds in samples SED1, SED2, S-1, S-2 and S-3 caused elevated reporting limit for certain pesticides. In soil samples SED-1 and SED-2 the reporting limits for lindane and heptachlor were elevated. In samples S-1 and S-2 aldrins reporting limit was raised. In sample S-3: alpha BHC, beta BHC, delta BHC, gamma BHC, heptachlor and aldrin were elevated.

Sample S-2 had an elevated reporting limit for heptachlor due to the presence of B-GHC in the sample.

PCB's were identified in the corresponding GC/MS extractable samples for S-1 and S-3. They are listed in the tentatively identified report form for these samples.

No recovery of DBC is listed for method blank B-399 since it was inadvertently not added.

Inorganic Data Comment Page

Lab Name H2M Case No. NJDEP

ICP interelement and background corrections applied? Yes ____ No X.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form I:

< - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., <10).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

S - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method fo standard addition is less than 0.995.

M - Indicates duplicate injection results exceeded control limits.

COMMENTS: _____

Case Narrative for Inorganics

Furnace AA

Selenium- Samples 660541 CD910 SED1 and 660545 CD910 S2 required MSA Procedures. The correlation coefficient for both samples was greater than .995. Results were flagged with "S".

660533 CD910 SED1 spike recovery was less than 40%, sample was diluted 2X and reanalyzed. Result reported as less than 2X CRDL. Digested soil/sed. spike recovery was less than 75%. All soil/sed. samples flagged with N.

Lead- Sample 660557 CD910 SW2/SW2Q was over calibration when first analyzed. Sample was diluted 10 X and reanalyzed. The result was less than CRDL indicating the initial high reading was caused by interference.
The digested spike for this sample showed the same results, sample was spiked with 10 and 20 ug after digestion. Both the spikes recovered. The liquid matrix samples were flagged with "N" and the 660557 CD910 SW2/SW2Q was also flagged with "E" for possible interference.

Arsenic- Sample 660553 CD910 SW1 duplicate injection on furnace were not within 20% RPD, results were flagged with "*".

Mercury- Samples 660541 CD910-S1 duplicate analysis were not within 20% RPD. The results were averaged and flagged with "*". Spike recovery was less than 75% due to inconsistancy of sample, soil/sed. results were flagged with "N".

Thallium- Digested soil/sed. and liquid spikes were less than 75%. Results reported flagged with "N".

ICP

The clock and date feature on the ARL 3410 was misfunctioning and printing out false dates on ICP printouts. A statement from ARL will be supplied if necessary.
Digested soil/sed. spike recoveries were less than 75% for silver, zinc and antimony. Digested liquid spike recoveries were less than 75% for beryllium and copper. Results were flagged with "N". Sample 660541 CD910 S1 serial dilution for chromium was not within 10% results flagged with "E".

Phenol- Sample 660557 CD910-SW2 was used for spike duplicate. Spike recovery was 0%. The normal color was not produced in the colormetric procedure. Liquids were flagged with "N". Sample 660557 CD910-SW2 was also flagged with "E" to note interference

V. Q.C. Summary

1. Surrogate Recovery Form
2. MS/MSD Form
3. Method Blank Summary
4. GC/MS Tuning Form
5. Quality Assurance Data Metals
6. Initial and Continuing Calibration Verification

for scans:

__X__ GC/MS Volatiles

__X__ GC/MS Extractables

__X__ Pesticides/PCB's

__X__ Inorganics

WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. Contractor : H2M LABS Contract No. NJDEP

	VOLATILE			SEMIVOLATILE						PEST
SMO TRAFFIC NO.	Toluene d-8 (88-110)	Bromofluo-benzene (88-115)	1,2-Dichlo-roethane-d4 (78-114)	Nitro-benzene-d5 (35-114)	2-Fluoro-biphenyl (43-116)	Terphenyl-d-14 (33-141)	Phenol-d-5 (10-94)	2-Fluoro-phenol (21-100)	2,4,6-Tri-bromophenol (10-123)	Dibutylchl-orendate ** (24-154)
Std.	100	100	100							
Std.	100	100	100							
Inst.Bl	98	95	85							
SW-1	93	94	84							
TB	94	91	81							
FB	96	96	90							
SW2/SW2Q	93	95	83							
SW2/SWQ2	92	100	80							
SW2/SWQ2	95	115	79							
MW-1	91	99	81							
MW-2A	95	98	82							

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: 0 out of 33 ; outside of QC limits
Semi-Volatiles: ____ out of ____ ; outside of QC limits
Pesticides: ____ out of ____ ; outside of QC limits

Comments:

CLP

WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. : METHOD 625 Contractor : H2M LABS Contract No. :

	VOLATILE			SEMIVOLATILE						PEST
SMO TRAFFIC NO.	Toluene d-8 (88-110)	Bromofluo-benzene (88-115)	1,2-Dichlo-roethane-d4 (78-114)	Nitro-benzene-d5 (35-114)	2-Fluoro-biphenyl (43-116)	Terphenyl-d-14 (33-141)	Phenol-d-5 (10-94)	2-Fluoro-phenol (21-100)	2,4,6-Tri-bromophenol (10-123)	Dibutylchl-orendate ** (24-154)
SW-2				66	58	105	22	32	33	
SW-2 MS				69	72	112	4*	39	43	
SW-2 MSD				56	58	83	26	37	42	
SW-1				55	56	89	33	37	41	
FB				72	63	113	35	39	40	
TB				64	58	108	35	39	42	
Blank	137			57	68	97	43	53	23	

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: ____ out of ____ ; outside of QC limits
Semi-Volatiles: 1 out of 42 ; outside of QC limits
Pesticides: ____ out of ____ ; outside of QC limits

Comments:

CLP

WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. : METHOD 625 Contractor : H2M LABS Contract No. : DEC 1/86

	VOLATILE			SEMIVOLATILE						PEST
SMO TRAFFIC NO.	Toluene d-8 (88-110)	Bromofluo-benzene (88-115)	1,2-Dichloroethane-d4 (78-114)	Nitro-benzene-d5 (35-114)	2-Fluoro-biphenyl (43-116)	Terphenyl-d-14 (33-141)	Phenol-d-5 (10-94)	2-Fluoro-phenol (21-100)	2,4,6-Tri-bromophenol (10-123)	Dibutylchlorendate ** (24-154)
SW-1										96
SW2/SW2Q										92
SW2/SW2Q MS										120
SW2/SW2Q MSD										150*
TB										95
FB										1000*
B-399										100

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: ____ out of ____ ; outside of QC limits
Semi-Volatiles: ____ out of ____ ; outside of QC limits
Pesticides: 2 out of 7 ; outside of QC limits

Comments:

CLP

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. : SEMI-VOL Contractor : H2M LABS Contract No. :

Low _____ Medium _____

	VOLATILE			SEMIVOLATILE						PEST
SMO TRAFFIC NO.	Toluene d-8 (61-117)	Bromofluo-benzene (74-121)	1,2-Dichloroethane-d4 (70-121)	Nitrobenzene-d5 (23-120)	2-Fluorobiphenyl (30-115)	Terphenyl-d-14 (18-137)	Phenol-d-5 (24-113)	2-Fluorophenol (25-121)	2,4,6-Tribromophenol (19-122)	Dibutylchlorendate ** (20-150)
Std.	100	100	100							
Std.	100	100	100							
Inst.Bl.	110	88	80							
SED-1	102	95	97							
SED-1 MS	105	91	81							
SED-1 MSD	100	96	111							
SED-2	110	88	84							
S-1	98	93	86							
S-2	94	96	94							
S-3	111	96	90							

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: 0 out of 30 ; outside of QC limits
Semi-Volatiles: ____ out of ____ ; outside of QC limits
Pesticides: ____ out of ____ ; outside of QC limits

Comments: _____

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. : SEMI-VOL Contractor : H2M LABS Contract No. :

Low _____ Medium _____

	VOLATILE			SEMIVOLATILE						PEST
SMO TRAFFIC NO.	Toluene d-8 (61-117)	Bromofluo-benzene (74-121)	1,2-Dichloroethane-d4 (70-121)	Nitro-benzene-d5 (23-120)	2-Fluoro-biphenyl (30-115)	Terphenyl-d-14 (18-137)	Phenol-d-5 (24-113)	2-Fluoro-phenol (25-121)	2,4,6-Tri-bromophenol (19-122)	Dibutylchlorendate ** (20-150)
SED-1				39	62	86	47	56	46	
SED-1	MS			45	56	84	48	40	35	
SED-1	MSD			48	59	92	39	44	35	
SED-2				55	72	100	42	47	30	
S-1				31	68	95	25	28	23	
S-2				56	72	100	46	57	43	
S-3				6*	19*	28	38	52	34	

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: ____ out of ____ ; outside of QC limits
Semi-Volatiles: 2 out of 42 ; outside of QC limits
Pesticides: ____ out of ____ ; outside of QC limits

Comments: CD910 S-3 660547 BNA was subjected to a GPC cleanup prior to analysis.

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. : SEMI-VOL Contractor : H2M LABS Contract No. : BNL 8/86

Low _____ Medium _____

	VOLATILE			SEMIVOLATILE						PEST
SMO TRAFFIC NO.	Toluene d-8 (61-117)	Bromofluo-benzene (74-121)	1,2-Dichloroethane-d4 (70-121)	Nitro-benzene-d5 (23-120)	2-Fluoro-biphenyl (30-115)	Terphenyl-d-14 (18-137)	Phenol-d-5 (24-113)	2-Fluoro-phenol (25-121)	2,4,6-Tri-bromophenol (19-122)	Dibutylchlorendate ** (20-150)
SED-1										811**
SED-1	MS									1462**
SED-1	MSD									1481**
SED-2										857**
S-1										570**
S-2										303**
S-3										404**

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: ____ out of ____ ; outside of QC limits
Semi-Volatiles: ____ out of ____ ; outside of QC limits
Pesticides: 7 out of 7 ; outside of QC limits

Comments: ** Recovery high due to phthalate contamination.

WATER MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Case No. : SEMI-VOL Contractor : H2M LABS Contract No. : DEC 1/86

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/L)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA	1,1-Dichloroethene	50	10U	67	134	61	122	9	14	61-145
SMO	Trichloroethene	50	10U	56	112	60	120	7	14	71-120
SAMPLE NO	Chlorobenzene	50	10U	48	96	59	118	21*	13	75-130
SW2/SW2Q	Toluene	50	1J	48	96	54	108	12	13	76-125
	Benzene	50	10U	40	80	40	80	0	11	76-127
	1,2,4-Trichlorobenzene								28	39-98
B/N	Acenaphthene								31	46-118
SMO	2,4-Dinitrotoluene								38	24-96
SAMPLE NO	Pyrene								31	26-127
	N-Nitroso Di-n-Propylamine								38	41-116
	1,4-Dichlorobenzene								28	36-97
ACID	Pentachlorophenol								50	9-103
SMO	Phenol								42	12-89
SAMPLE NO	2-Chlorophenol								40	27-123
	4-Chloro-3-Methylphenol								42	23-97
	4-Nitrophenol								50	10-80
	Lindane								15	56-123
PEST	Heptachlor								20	40-131
SMO	Aldrin								22	40-120
SAMPLE NO	Dieldrin								18	52-126
	Endrin								21	56-121
	4,4'-DDT								27	38-127

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD: VOAs 1 out of 5 ; outside QC limits
B/N ____ out of ____ ; outside QC limits
ACID ____ out of ____ ; outside QC limits
PEST ____ out of ____ ; outside QC limits

RECOVERY: VOAs 0 out of 10 ; outside QC limits
B/N ____ out of ____ ; outside QC limits
ACID ____ out of ____ ; outside QC limits
PEST ____ out of ____ ; outside QC limits

Comments:

42

WATER MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Case No. : SEMI-VOL Contractor : H2M LABS Contract No. :

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/L)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA	1,1-Dichloroethene								14	61-145
SMO	Trichloroethene								14	71-120
SAMPLE NO	Chlorobenzene								13	75-130
	Toluene								13	76-125
	Benzene								11	76-127
	1,2,4-Trichlorobenzene	592	0	302	51	225	38*	29*	28	39-98
B/N	Acenaphthene	444	0	204	46	169	38*	19	31	46-118
SMO	2,4-Dinitrotoluene	416	0	175	42	150	36	15	38	24-96
SAMPLE NO	Pyrene	436	0	196	45	153	35	25	31	26-127
	N-Nitroso Di-n-Propylamine	492	0	177	36*	133	27*	28	38	41-116
	1,4-Dichlorobenzene	472		241	51	212	45	13	28	36-97
ACID	Pentachlorophenol	748	0	464	62	494	66	6	50	9-103
SMO	Phenol	744	0	201	27	253	34	23	42	12-89
SAMPLE NO	2-Chlorophenol	888	0	447	47	355	40	16	40	27-123
	4-Chloro-3-Methylphenol	776	0	272	35	303	39	11	42	23-97
	4-Nitrophenol	1056	0	760	72	834	79	9	50	10-80
	Lindane								15	56-123
PEST	Heptachlor								20	40-131
SMO	Aldrin								22	40-120
SAMPLE NO	Dieldrin								18	52-126
	Endrin								21	56-121
	4,4'-DDT								27	38-127

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD: VOAs ____ out of ____; outside QC limits
B/N 1 out of 6; outside QC limits
ACID 0 out of 5; outside QC limits
PEST ____ out of ____; outside QC limits

RECOVERY: VOAs ____ out of ____; outside QC limits
B/N 4 out of 12; outside QC limits
ACID 0 out of 10; outside QC limits
PEST ____ out of ____; outside QC limits

Comments:

WATER MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Case No. : SEMI-VOL Contractor : H2M LABS Contract No. :

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/L)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA	1,1-Dichloroethene								14	61-145
SMO	Trichloroethene								14	71-120
SAMPLE NO	Chlorobenzene								13	75-130
	Toluene								13	76-125
	Benzene								11	76-127
	1,2,4-Trichlorobenzene								28	39-98
B/N	Acenaphthene								31	46-118
SMO	2,4-Dinitrotoluene								38	24-96
SAMPLE NO	Pyrene								31	26-127
	N-Nitroso Di-n-Propylamine								38	41-116
	1,4-Dichlorobenzene								28	36-97
ACID	Pentachlorophenol								50	9-103
SMO	Phenol								42	12-89
SAMPLE NO	2-Chlorophenol								40	27-123
	4-Chloro-3-Methylphenol								42	23-97
	4-Nitrophenol								50	10-80
	Lindane	0.20	-	0.28	140*	0.31	155*	11	15	56-123
PEST	Heptachlor	0.20	-	0.11	55	0.12	60	9	20	40-131
SMO	Aldrin	0.20	-	0.09	45	0.13	65	44*	22	40-120
SAMPLE NO	Dieldrin	0.50	-	0.12	24*	0.14	28*	17	18	52-126
SW2/SW2Q	Endrin	0.40	-	0.29	73	0.37	93	28*	21	56-121
	4,4'-DDT	0.50	-	0.33	66	0.41	82	24	27	38-127

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD: VOAs____out of____; outside QC limits
B/N____out of____; outside QC limits
ACID____out of____; outside QC limits
PEST 2 out of 6 ; outside QC limits

RECOVERY: VOAs____out of____; outside QC limits
B/N____out of____; outside QC limits
ACID____out of____; outside QC limits
PEST 4 out of 12 ; outside QC limits

Comments:

SOIL MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Case No. : SEMI-VOL Contractor : H2M LABS Contract No. :

Low Level _____ Medium Level _____

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/Kg)		SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA	1,1-Dichloroethene	159	175	-	173	108	213	122	12	22	59-172
SMO	Trichloroethene	159*	175*	-	178	112	184	111	2	24	62-137
SAMPLE NO	Chlorobenzene	159	175	-	161	102	158	90	13	21	60-133
SED 1	Toluene	159	175	-	172	108	166	95	12	21	59-139
	Benzene	159	175	-	123	77	136	78	1	21	66-142
	1,2,4-Trichlorobenzene									23	38-107
B/N	Acenaphthene									19	31-137
SMO	2,4-Dinitrotoluene									47	28-89
SAMPLE NO	Pyrene									36	35-142
	N-Nitroso Di-n-Propylamine									38	41-126
BNA	1,4-Dichlorobenzene									27	28-104
ACID	Pentachlorophenol									47	17-109
SMO	Phenol									35	26-90
SAMPLE NO	2-Chlorophenol									50	25-102
	4-Chloro-3-Methylphenol									33	26-103
BNA	4-Nitrophenol									50	11-114
	Lindane									50	46-127
PEST	Heptachlor									31	35-130
SMO	Aldrin									43	34-132
SAMPLE NO	Dieldrin									38	31-134
	Endrin									45	42-139
BNA	4,4'-DDT									50	23-134

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD: VOAs 0 out of 5 ; outside QC limits
B/N ___ out of ___ ; outside QC limits
ACID ___ out of ___ ; outside QC limits
PEST ___ out of ___ ; outside QC limits

RECOVERY: VOAs 0 out of 16 ; outside QC limits
B/N ___ out of ___ ; outside QC limits
ACID ___ out of ___ ; outside QC limits
PEST ___ out of ___ ; outside QC limits

Comments: _____

SOIL MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Case No. : SEMI-VOL Contractor : H2M LABS Contract No. : BNL 8/86

Low Level _____ Medium Level _____

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/Kg)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA	1,1-Dichloroethene								22	59-172
SMO	Trichloroethene								24	62-137
SAMPLE NO	Chlorobenzene								21	60-133
	Toluene								21	59-139
BNA	Benzene								21	66-142
	1,2,4-Trichlorobenzene	35300	1589	20102	57	20102	57	0	23	38-107
B/N	Acenaphthene	26500	0	14284	54	14548	55	2	19	31-137
SMO	2,4-Dinitrotoluene	25000	0	0	0*	249	1*	200*	47	28-89
SAMPLE NO	Pyrene	25800	0	16301	63	17594	68	8	36	35-142
	N-Nitroso Di-n-Propylamine	29300	0	9962	34*	12892	44	26	38	41-126
BNA	1,4-Dichlorobenzene	28100	0	17734	63	18578	66	5	27	28-104
ACID	Pentachlorophenol	44500	0	12461	28	16467	37	28	47	17-109
SMO	Phenol	44200	0	11943	27	15482	35	26	35	26-90
SAMPLE NO	2-Chlorophenol	53000	0	19074	36	21194	40	11	50	25-102
	4-Chloro-3-Methylphenol	46000	0	12924	28	14309	31	10	33	26-103
BNA	4-Nitrophenol	63000	0	630	1*	1889	3*	100*	50	11-114
	Lindane								50	46-127
PEST	Heptachlor								31	35-130
SMO	Aldrin								43	34-132
SAMPLE NO	Dieldrin								38	31-134
	Endrin								45	42-139
BNA	4,4'-DDT								50	23-134

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD: VOAs ____ out of ____ ; outside QC limits
B/N 1 out of 6 ; outside QC limits
ACID 1 out of 5 ; outside QC limits
PEST ____ out of ____ ; outside QC limits

RECOVERY: VOAs ____ out of ____ ; outside QC limits
B/N 3 out of 12 ; outside QC limits
ACID 2 out of 10 ; outside QC limits
PEST ____ out of ____ ; outside QC limits

Comments: _____

SOIL MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Case No. : SEMI-VOL Contractor : H2M LABS Contract No. : BNL 8/86

Low Level _____ Medium Level _____

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/Kg)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA	1,1-Dichloroethene								22	59-172
SMO	Trichloroethene								24	62-137
SAMPLE NO	Chlorobenzene								21	60-133
	Toluene								21	59-139
BNA	Benzene								21	66-142
	1,2,4-Trichlorobenzene								23	38-107
B/N	Acenaphthene								19	31-137
SMO	2,4-Dinitrotoluene								47	28-89
SAMPLE NO	Pyrene								36	35-142
	N-Nitroso Di-n-Propylamine								38	41-126
BNA	1,4-Dichlorobenzene								27	28-104
ACID	Pentachlorophenol								47	17-109
SMO	Phenol								35	26-90
SAMPLE NO	2-Chlorophenol								50	25-102
	4-Chloro-3-Methylphenol								33	26-103
BNA	4-Nitrophenol								50	11-114
	Lindane	29.7		**		**			50	46-127
PEST	Heptachlor	29.7		**		**			31	35-130
SMO	Aldrin	29.7		**		**			43	34-132
SAMPLE NO	Dieldrin	74.3		**		**			38	31-134
SED-1	Endrin	59.4		**		**			45	42-139
BNA	4,4'-DDT	74.3		**		**			50	23-134

* - ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD: VOAs____out of____; outside QC limits
B/N ____out of____; outside QC limits
ACID____out of____; outside QC limits
PEST ____out of____; outside QC limits

RECOVERY: VOAs____out of____; outside QC limits
B/N____out of____; outside QC limits
ACID____out of____; outside QC limits
PEST____out of____; outside QC limits

Comments: ** Aroclor 1254 found in soil sample CD910- SED-1 was so high that it interfered with the detection of the spiking compounds, no recoveries could be calculated.

METHOD BLANK SUMMARY

Contractor : H2M LABS

Contract No. : NJDEP

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	Scan #	INST. ID	C.A.S. NUMBER	COMPOUND (HSL,TIC,OR UNKNOWN)	CONC	UNITS	CRQL
PU6427	9/26/86	Purge	Water	328	OWA#1	71-55-6	1,1,1-Trichloroethane	1	ug/l	10
"	"	"	"	13	"	-	Unknown(Carbon Dioxide)	73	"	-
PU6393	9/24/86	Purge.	Water	328	OWA#1	71-55-6	1,1,1-Trichloroethane	2	ug/l	10
"	"	"	"	13	"	-	Unknown(Carbon Dioxide)	57	"	-

Comments :

METHOD BLANK SUMMARY

Contractor : H2M LABS

Contract No. : NJDEP X085

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	Conc Level	INST. ID	C.A.S. NUMBER	COMPOUND (HSL,TIC,OR UNKNOWN)	CONC	UNITS	CRQL
P2500	10/6/86	BNA	Water	Low	HP#1	-	None found	-	-	10

Comments :

METHOD BLANK SUMMARY

Contractor : H2M LABS

Contract No. : NJDEP XO85

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	Conc. Level	INST. ID	C.A.S. NUMBER	COMPOUND (HSL,TIC,OR UNKNOWN)	CONC	UNITS	CROL
B-399	10/6/86	PEST	Water	Low	GC/ECD		Delta-BHC	0.05	ug/l	
"	"	"	"	"	"		Unknown	0.81	"	
B-398	10/7/86	"	"	"	"		Unknown	0.56	"	

Comments :

Organic Form V

GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)

Case No. _____ Laboratory H2M Contract No. _____

Instrument Id OWA #1 Date 9/24/86 Time 8:29

Lab ID PU6390 Data Release Authorized By: [signature]

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	23.2
75	30.0 - 60.0% of the base peak	45.6
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	7.4
173	Less than 1.0% of the base peak	0.0
174	Greater than 50.0% of the base peak	95.6
175	5.0 - 9.0% of mass 174	4.8(5.0)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	92.9(97.2)[1]
177	5.0 - 9.0% of mass 176	5.0(5.4)[2]

[1] Value in parenthesis is % mass 174.
[2] Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPPLES, BLANKS AND STANDARDS.

	SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
	Standard	PU6391	9/24/86	8:38
	Standard	PU6392	"	9:32
	Inst. Blank	PU6393	"	10:28
CD910-SW1	660550	PU6394	"	11:26
CD910-TB	660558	PU6395	"	12:32
CD910-FB	660562	PU6396	"	13:29
SW2a CD910-SW2	660554	PU6397	"	14:22
	660554 MS	PU6398	"	15:15
	660554 MSD	PU6399	"	16:06

GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)

Case No. _____ Laboratory H2M Contract No. _____

Instrument Id OWA #1 Date 9/26/86 Time 11:40

Lab ID PU6424 Data Release Authorized By: [signature]

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	24.2
75	30.0 - 60.0% of the base peak	47.4
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	6.6
173	Less than 1.0% of the base peak	0
174	Greater than 50.0% of the base peak	84.5
175	5.0 - 9.0% of mass 174	5.0(5.9)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	83.5(98.8)[1]
177	5.0 - 9.0% of mass 176	4.9(5.8)[2]

[1] Value in parenthesis is % mass 174.
[2] Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPPLES, BLANKS AND STANDARDS.

	SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
	Standard	PU6425	9/26/86	11:55
	Standard	PU6426	"	12:49
	Inst. Blank	PU6427	"	13:46
CD910-SED 1	660530	PU6428	"	14:40
	660530 MS	PU6429	"	15:33
	660530 MSD	PU6430	"	16:30
CD910-SED 2	660534	PU6431	"	17:27
CD91051	660538	PU6432	"	18:21
CD91052	660542	PU6433	"	19:18
CD91053	660546	PU6434	"	20:09

WARNING: FMP -6 on ::

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GC/MS TUNING AND MASS CALIBRATION

Decafluorotriphenylphosphine (DFTPP)

Case No. SEMI-VOL Contractor H2M LABS Contract No. BNL 8/86

Instrument ID HP#1 Date / Time 8/21/86 16:21

Lab ID >DFT29::D2 Data Release Authorized By: _____

m/z	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.71 OK
68	less than 2.0% of mass 69	-1.51 OK (-2.67) #1
69	mass 69 relative abundance	56.69
70	less than 2.0% of mass 69	-.06 OK (-.102) #1
127	40.0 - 60.0% of mass 198	45.37 OK
197	less than 1.0% of mass 198	0.00 OK
198	base peak, 100% relative abundance	100.00 OK
199	5.0 - 9.0% of mass 198	5.82 OK
275	10.0 - 30.0% of mass 198	24.56 OK
365	greater than 1.00% of mass 198	3.58 OK
441	present, but less than mass 443	13.19 OK
442	greater than 40.0% of mass 198	91.47 OK
443	17.0 - 23.0% of mass 442	18.33 OK (20.04) #2

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

#1 - Value in parenthesis is % mass 69.
#2 - Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
10 ng/ul HSL	P2314	8/21/86	17:30
25 ng/ul HSL	P2316	"	19:93
40 ng/ul HSL	P2320	"	22:40

WARNING: FMP -6 on ::
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GC/MS TUNING AND MASS CALIBRATION

Decafluorotriphenylphosphine (DFTPP)

Case No. SEMI-VOL Contractor H2M LABS Contract No. BNL 8/86

Instrument ID HP#1 Date / Time 8/22/86 9:17

Lab ID >DFT30::D2 Data Release Authorized By: _____

m/z	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.36 OK
68	less than 2.0% of mass 69	0.00 OK (0.00) #1
69	mass 69 relative abundance	57.01
70	less than 2.0% of mass 69	.92 OK (1.607) #1
127	40.0 - 60.0% of mass 198	45.41 OK
197	less than 1.0% of mass 198	0.00 OK
198	base peak, 100% relative abundance	100.00 OK
199	5.0 - 9.0% of mass 198	5.97 OK
275	10.0 - 30.0% of mass 198	22.71 OK
365	greater than 1.00% of mass 198	3.45 OK
441	present, but less than mass 443	11.93 OK
442	greater than 40.0% of mass 198	89.83 OK
443	17.0 - 23.0% of mass 442	18.04 OK (20.09) #2

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

#1 - Value in parenthesis is % mass 69.
#2 - Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
60 ng/ul HSL	P2322	8/22/86	10:05
80 ng/ul HSL	P2323	"	10:57

WARNING: FMP -6 on ::
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GC/MS TUNING AND MASS CALIBRATION

Decafluorotriphenylphosphine (DFTPP)

Case No. SEMI-VOL Contractor H2M LABS Contract No. BNL 8/86

Instrument ID HP#1 Date / Time 10/06/86 13:47

Lab ID >DFT59::D1 Data Release Authorized By: _____

m/z	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.92 OK
68	less than 2.0% of mass 69	0.00 OK (0.00) #1
69	mass 69 relative abundance	52.46
70	less than 2.0% of mass 69	0.00 OK (0.00) #1
127	40.0 - 60.0% of mass 198	45.42 OK
197	less than 1.0% of mass 198	0.00 OK
198	base peak, 100% relative abundance	100.00 OK
199	5.0 - 9.0% of mass 198	8.57 OK
275	10.0 - 30.0% of mass 198	28.42 OK
365	greater than 1.00% of mass 198	4.65 OK
441	present, but less than mass 443	10.89 OK
442	greater than 40.0% of mass 198	82.27 OK
443	17.0 - 23.0% of mass 442	17.07 OK (20.74) #2

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

#1 - Value in parenthesis is % mass 69.
#2 - Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
25 ng/ul HSL	P2499	10/6/86	17:09
Blank 137	P2500 BNA	"	18:39
SED-1	660531 BNA P2501	"	19:31
SED-1 MS	660531 BNA P2502	"	20:23
SED-1 MSD	660531 BNA P2503	"	21:15
SED-2	660535 BNA P2504	"	22:06
S-1	660539 BNA P2505	"	22:58
S-2	660543 BNA P2506	"	23:49
S-3	660547 BNA P2507	"	00:40

_WARNING: FMP -6 on ::
.....

GC/MS TUNING AND MASS CALIBRATION

Decafluorotriphenylphosphine (DFTPP)

Case No. SEMI-VOL Contractor H2M LABS Contract No. BNL 8/86

Instrument ID HP#1 Date / Time 9/22/86 8:27

Lab ID >DFT50::D1 Data Release Authorized By: J. Mslo

m/z	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.11 OK
68	less than 2.0% of mass 69	0.00 OK (0.00) #1
69	mass 69 relative abundance	57.74
70	less than 2.0% of mass 69	0.00 OK (0.00) #1
127	40.0 - 60.0% of mass 198	46.02 OK
197	less than 1.0% of mass 198	0.00 OK
198	base peak, 100% relative abundance	100.00 OK
199	5.0 - 9.0% of mass 198	8.63 OK
275	10.0 - 30.0% of mass 198	23.78 OK
365	greater than 1.00% of mass 198	3.65 OK
441	present, but less than mass 443	6.31 OK
442	greater than 40.0% of mass 198	65.15 OK
443	17.0 - 23.0% of mass 442	13.50 OK (20.71) #2

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

#1 - Value in parenthesis is % mass 69.
#2 - Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
25 ng/ul HSL	P2456	9/22/86	08:47
SW-2	660555 BNA P2458	"	10:56
SW-2 MS	660555 BNA P2459	"	11:55
SW2 MSD	660555 BNA P2460	"	12:47
SW-1	660551 BNA P2461	"	13:39
FB	660563 BNA P2462	"	14:31
TB	660559 BNA P2463	"	15:23

CLP Inorganic Form II

Q.C. Report No. _____

INITIAL AND CONTINUING CALIBRATION VERIFICATION[3]

LAB NAME HZM

CASE NO. _____

SOW NO. _____

DATE 9-30-86

UNITS ug/l

Compound	Initial Calib.[1]			Continuing Calibration[2]					
Metals:	True Value	Found	%R	True Value	Found	%R	Found	%R	Method[4]
1. Aluminum	NR								
2. Antimony	99	93	94	99	96	96	91	92	P
3. Arsenic	100	101	101	100	98	98	98	98	F
4. Barium	NR								
5. Beryllium	96	93	98	96	90	94	98	102	P
6. Cadmium	94	88	94	94	90	95	92	98	P
7. Calcium	NR								
8. Chromium	103	101	98	103	95	92	103	100	P
9. Cobalt	NR								
10. Copper	103	96	93	103	93	90	101	98	P
11. Iron	NR								
12. Lead	100	98	98	100	100	100	100	100	P, F
13. Magnesium	NR								
14. Manganese	NR								
15. Mercury	5.0	4.8	96	1.0	1.0	100	4.8	96	P
16. Nickel	102	96	94	102	97	95	102	100	P
17. Potassium	NR								
18. Selenium	25	24.5	98	25	23.7	95	23	92	F
19. Silver	99	101	98	99	99	100	93	94	P
20. Sodium	NR								
21. Thallium	101	102	101	101	103	101			F
22. Vanadium	NR								
23. Zinc	101	95	94	101	95	94	98	97	P
Other									
Cyanide	5	4.5	90	50	44	88			

[1] Initial Calibration Source EPA EMSL + HZM

[2] Continuing Calibration Source EPA EMSL + HZM

[3] Control Limits: Mercury and Tin 80-120; All Other Compounds 90-110

[4] Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

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Q.C. Report No. _____

BLANKS

LAB NAME H2M

CASE NO. _____

DATE 9-30-86

UNITS ug/l

Matrix ~~SOIL~~ WATER

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. Aluminum	NR	NR					
2. Antimony	<60	<60	<60	<60		<60	<60
3. Arsenic	<10						
4. Barium	NR						
5. Beryllium	<5	<5	<5	<5		<5	<5
6. Cadmium	<5	<5	<5	<5		<5	<5
7. Calcium	NR						
8. Chromium	<10	<10	<10	<10		<10	<10
9. Cobalt	NR						
10. Copper	~~[illegible]~~ <25	<25	<25	<25		<25	<25
11. Iron	NR						
12. Lead	<2	<2	<2	<2		<2	<2
13. Magnesium	NR						
14. Manganese	NR						
15. Mercury	<.2	<.2	<.2	<.2			
16. Nickel	<40						
17. Potassium	NR						
18. Selenium	<5	<5	<5	<5	<5	<5	<5
19. Silver	<10	<10	<10	<10		<10	<10
20. Sodium	NR						
21. Thallium	<10	<10	<10	<10	<10	<10 <10	<10 <10
22. Vanadium	NR						
23. Zinc	<20	<20	<20	<20		<20	<20
Other _____							
_____							
Cyanide	<10	<10					

CLP Inorganic Form IV

Q.C. Report No. _____

ICP INTERFERENCE CHECK SAMPLE

LAB NAME H2M

DATE 9-30-86

CASE NO. _____
Check Sample I.D. _____
Check Sample Source Inorganic Ventures
Units ug/l

Compound	Control Limits[1] Mean	Control Limits[1] Std. Dev.	True[2]	Initial Observed	Initial %R	Final Observed	Final %R
Metals:	peak intensity						
1. Aluminum	NR						
2. Antimony	1734	.95	1.00	1.06	106	1.07	107
3. Arsenic	NR						
4. Barium	NR						
5. Beryllium	2914	.80	.10	.102	102	.103	103
6. Cadmium	1662	.56	.30	.313	104	.314	105
7. Calcium	NR						
8. Chromium	1376	.91	.30	.302	100	.297	99
9. Cobalt	NR						
10. Copper	1668	.39	.30	.288	96	.288	96
11. Iron	NR						
12. Lead	NR						
13. Magnesium	NR						
14. Manganese	NR						
15. Mercury	NR						
16. Nickel	2042	2.26	.30	.300	100	.301	100
17. Potassium	NR						
18. Selenium	NR						
19. Silver	5769	.75					
20. Sodium	NR						
21. Thallium	NR						
22. Vanadium	NR						
23. Zinc	4182	1.58	.30	.297	99	.306	102
Other _____							

[1] Mean value based on n _____.

[2] True value of EPA ICP Interference Check Sample or Laboratory standard.

CLP Inorganic Form V

Q.C. Report No. _____

SPIKE SAMPLE RECOVERY

LAB NAME H2M

DATE 9-30-86

CASE NO. _____

NYSDEC Sample No. CD-910-51

Lab Sample ID No. 660541

Units ug/L

Matrix Soil

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R	
Metals:						
1. Aluminum	75-125	—	—	—	—	
2. Antimony		464	93	500	74.2	R
3. Arsenic		105	90	20	75	
4. Barium	NR	—	—	—	—	
5. Beryllium		56	12	50	88	
6. Cadmium		102	62	50	80	
7. Calcium	NR	—	—	—	—	
8. Chromium		438	245	200		
9. Cobalt	NR	—	—	—	—	
10. Copper		924	699	250	90	
11. Iron	NR	—	—	—	—	
12. Lead		1700	1300	500	80	
13. Magnesium	NR	—	—	—	—	
14. Manganese	NR	—	—	—	—	
15. Mercury		See case narrative				R
16. Nickel		561	182	400	95	
17. Potassium	NR	—	—	—	—	
18. Selenium		27	12.5	14.5	72	R
19. Silver		57	36	50	42	R
20. Sodium	NR	—	—	—	—	
21. Thallium		36	<10	50	72	R
22. Vanadium	NR	—	—	—	—	
23. Zinc	↓	1466	1340	200	63	R
Other _____						
Cyanide						

[1] %R = [(SSR - SR)/SA] x 100

*R - out of control

Comments: _____

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CLP Inorganic Form V

Q.C. Report No. _____

SPIKE SAMPLE RECOVERY

LAB NAME H2M

DATE 9-30-86

CASE NO. _____

NYSDEC Sample No. ~~SS~~ SW2/SW2Q

Lab Sample ID No. 660557

Units ug/L

Matrix WATER

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R	
Metals:						
1. Aluminum	75-125	NR	—	—	—	
2. Antimony		452	<60	500	90	
3. Arsenic		19.5	<10	20	97	
4. Barium		NR	—	—	—	
5. Beryllium		37	<5	50	74	R
6. Cadmium		45	<5	50	90	
7. Calcium		NR	—	—	—	
8. Chromium		186	<10	200	95	
9. Cobalt		NR	—	—	—	
10. Copper		204	25	250	72	R
11. Iron		NR	—	—	—	
12. Lead		SEE CASE	NARRATIVE			R
13. Magnesium		NR	—	—	—	
14. Manganese		NR	—	—	—	
15. Mercury		1.05	<.2	1.0	105	
16. Nickel		353	<40	400	82	
17. Potassium		NR	—	—	—	
18. Selenium		10	<5	10	100	
19. Silver		58	9	50	98	
20. Sodium		NR	—	—	—	
21. Thallium		33	<10	50	70	R
22. Vanadium		NR	—	—	—	
23. Zinc		194	22	200	86	
Other _____						
Cyanide						

[1] %R = [(SSR - SR)/SA] x 100

*R - out of control

Comments: _____

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CLP Inorganic Form VI

Q.C. Report No. _____

DUPLICATES

LAB NAME H2M

DATE 9-30-86

CASE NO. _____

NYSDEC Sample No. SW2-/SW2D

Lab Sample ID No. 160557

Units ug/l ~~mg/kg~~

Matrix ~~Soil~~ water

Compound	Control Limit[1]	Sample (S)	Duplicate (D)	RPD[2]
Metals:				
1. Aluminum	NR			
2. Antimony	NC	<60	<60	NC
3. Arsenic	~~NC~~	<10	<10	NC
4. Barium	NR			
5. Beryllium	NC	<5	<5	NC
6. Cadmium	NC	<5	<5	NC
7. Calcium	NR			
8. Chromium	NC	<10	<10	NC
9. Cobalt	NR			
10. Copper	± 25 *	25	25	0
11. Iron	NR			
12. Lead	± 20 %	1300	1300	0
13. Magnesium	NR			
14. Manganese	NR			
15. Mercury	~~NR~~ NC	<.2	<.2	NC
16. Nickel	NC	<40	<40	NC
17. Potassium	NR			
18. Selenium	NC	<5	<5	NC
19. Silver	NC	<10	<10	NC
20. Sodium	NR			
21. Thallium	NC	<10	<10	NC
22. Vanadium	NR			
23. Zinc	± 20 *	22	20	9.5
Other _____				
Cyanide	± 10*	<10	<10	NC

~~* ABOVE INFO BEFORE CALCULATION TO MG/KG~~

* Out of Control

[1] To be added at a later date.

[2] RPD = [|S - D|/((S + D)/2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

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CLP Inorganic Form VI

Q.C. Report No. _____

DUPLICATES

LAB NAME H2M

DATE 9-30-86

CASE NO. _____

NYSDEC Sample No. CD-910-51

Lab Sample ID No. 660541

Units * ug/l ✱

Matrix Soil

Compound	Control Limit[1]	Sample (S)	Duplicate (D)	RPD[2]
Metals:				
1. Aluminum	NR			
2. Antimony	± 60 * ~~[illegible]~~	93	87	7%
3. Arsenic	± 20%	91	93	2%
4. Barium	NR			
5. Beryllium	± 5 *	12	12	0
6. Cadmium	± 20 %	62	59	7%
7. Calcium	NR			
8. Chromium	± 20%	245	233	5%
9. Cobalt	NR			
10. Copper	± 20 %	699	684	2%
11. Iron	NR			
12. Lead	± 20%	1,300	1,300	0
13. Magnesium	NR			
14. Manganese	NR			
15. Mercury	± 20%	.88	2.1	82% ✱ SEE CASE NARRATIVE
16. Nickel	± 40 *	182	169	7%
17. Potassium	NR			
18. Selenium	± 5	9.5	14.8	5.3 mg/kg
19. Silver	± 10 *	36	37	3%
20. Sodium	NR			
21. Thallium	± 10 *	<10	<10	NC
22. Vanadium	NR			
23. Zinc	± 20%	1340	1313	2%
Other				
Cyanide	± 20%	<7.1 mg/kg	<7.1 mg/kg	NC

✱ samples results before calculation to Mg/kg.

* Out of Control

[1] To be added at a later date.

[2] RPD = [|S - D|/((S + D)/2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

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CLP Inorganic Form VII

Q.C. Report No. _____

INSTRUMENT DETECTION LIMITS AND
LABORATORY CONTROL SAMPLE

LAB NAME H2m LAB CASE NO. _____

DATE 9/30/86 LCS NO. _____

Compound	Required Detection Limits (CRDL)-µg/L	Instrument Detection Limits (IDL)-µg/L ICP/AA	Furnace	Lab Control Sample (circle one) µg/L mg/kg True	Found	%R	
1. Aluminum	200	8					
2. Antimony	60	17		99	93	94	
3. Arsenic	10	—		100	101	101	
4. Barium	200	5					
5. Beryllium	5	.2		96	93	98	
6. Cadmium	5	2		94	88	94	
7. Calcium	5000	3					
8. Chromium	10	3		103	101	98	
9. Cobalt	50	8					
10. Copper	25	1		103	96	93	
11. Iron	100	2					
12. Lead	5	—		100	98	98	
13. Magnesium	5000	7					
14. Manganese	15	.4					
15. Mercuiry	0.2		.2	5	4.8	96	cold vapor
16. Nickel	40	6		102	96	94	
17. Potassium	5000	300					
18. Selenium	5		2.0				
19. Silver	10	.8		99	101	98	
20. Sodium	5000	7					
21. Thallium	10	—	2.0	101	102	101	
22. Vanadium	50	2					
23. Zinc	20	.7		101	95	94	
Other:							
Cyanide	10	NR	NR	25	27	108	

NR - Not Required

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Form VII A

Q.C. Report No. _____

INSTRUMENT DETECTION LIMITS AND

LABORATORY CONTROL SAMPLE

LAB NAME HZM CASE NO. _____ DATE 9/16/86

ICP FURNACE LCS NO. _____

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA ID# 3410	Instrument Detection Limits (IDL)-ug/l Furnace ID# 5000	Lab Control Sample ug/L mg/kg (circle one) True	Found	%R
Metals:						
1. Aluminum	200	8				
2. Antimony	60	17		990	923	93
3. Arsenic	10	/	2.0	20	18	90
4. Barium	200	5		970	960	99
5. Beryllium	5	.2		960	938	98
6. Cadmium	5	2		940	876	94
7. Calcium	5000	3		5300	5600	106
8. Chromium	10	3		1030	937	91
9. Cobalt	50	8		1000	939	94
10. Copper	25	1		1030	983	95
11. Iron	100	2		100	100	100
12. Lead	5	/	2.0	100	100	100
13. Magnesium	5000	7		1800	1700	94
14. Manganese	15	.4		1020	959	94
15. Mercury	0.2	.2	.2	5	5	100
16. Nickel	40	6		1020	1019	100
17. Potassium	5000	300		1000	1050	105
18. Selenium	5	/	2.0	25	25	100
19. Silver	10	.8		990	990	100
20. Sodium	5000	7		860	800	93
21. Thallium	10	/	2.0	100	100	100
22. Vanadium	50	2		1010	898	90
23. Zinc	20	.7		1010	1010	100
Other:						
Cyanide	10	NR	NR			

NR - Not required

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Form VIII

Q.C. Report No. _____

STANDARD ADDITION RESULTS

LAB NAME Hzu

CASE NO. _____

DATE _____

UNITS _____

Sample #	Element	0 ADD ABS.	1 ADD CON./ABS[1]	2 ADD CON./ABS.[1]	3 ADD CON./ABS.[1]	FINAL CON.[2]	r*
660541	Se	.032	5/.051	10/.065	20/.101	9.5	.999
541	Se	.028	5/.038	10/.045	20/.066	14.8	.998
dup 545	Se	.025	5/.038	10/.055	20/.085	8.0	.999

1 CON is the concentration added, ABS. is the instrument readout in absorbance or concentration.

2 Concentration as determined by MSA

*"r" is the correlation coefficient.

+ - correlation coefficient is outside of control window of 0.995.

Form IX

Q.C. Report No. _____

ICP SERIAL DILUTIONS

LAB NAME H2M

CASE NO. _____

~~EPA~~ Sample No. CD910S1

DATE 9/30/86

Lab Sample ID No. 665541

Units by l *

Matrix SOIL

Compound	Initial Sample Concentration (I)	Serial Dilution[1] Result (S)	% Difference[2]
Metals			
1. Aluminum			
2. Antimony	87	NR	
3. Arsenic			
4. Barium			
5. Beryllium	12	NR	
6. Cadmium	59	56	5
7. Calcium			
8. Chromium	233	276	18.4 E
9. Cobalt			
10. Copper	684	740	8
11. Iron			
12. Lead			
13. Magnesium			
14. Manganese			
15. Nickel	169	180	6.5
16. Potassium			
17. Selenium			
18. Silver	37	36	2.7
19. Sodium			
20. Thallium			
21. Vanadium			
22. Zinc	1313	1404	6.9
Other:			

[1]Diluted sample concentration corrected for 1:4 dilution (see Exhibit D)

[2]Percent Difference = $\frac{|I - S|}{I} \times 100$

* PRIOR TO ug/kg CALC

NR - Not Required, initial sample concentration less than 10 times IDL
NA - Not Applicable, analyte not determined by ICP

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Form XI (Quarterly) A

INSTRUMENT DETECTION LIMITS

(HZM)

LAB NAME HOLZMACHER, McLENDON & MURRELL DATE 8-25-86

ICP/Flame AA (Circle One) Model Number ARL 3410 Furnace AA Number P.E. 5000 HGA 500

Element	Wavelength (nm)	CRDL (ug/L)	IDL (ug/L)	Element	Wavelength (nm)	CRDL (ug/L)	IDL (ug/L)
1. Aluminum	396.152	200	P 8.0	13. Magnesium	279.079	5000	P 7.0
2. Antimony	206.833	60	P 17.0	14. Manganese	257.610	15	P 0.4
3. Arsenic	193.70	10	F 2.0	15. Mercury	253.7	0.2	F 0.2
4. Barium	455.403	200	P 5.0	16. Nickel	231.604	40	P 6.0
5. Beryllium	234.861	5	P 0.2	17. Potassium	766.491	5000	P 283
6. Cadmium	214.438	5	P 2.0	18. Selenium	196.0	5	F 2.0
7. Calcium	422.673	5000	P 3.0	19. Silver	328.068	10	P 0.8
8. Chromium	205.552	10	P 3.4	20. Sodium	588.995	5000	P 7.0
9. Cobalt	237.862	50	P 8.0	21. Thallium	276.8	10	F 2.0
10. Copper	324.754	25	P 1.0	22. Vanadium	292.402	50	P 1.5
11. Iron	259.940	100	P 1.5	23. Zinc	213.856	20	P .7
12. Lead	283.3	5	F 2.0				

Footnotes:
- Indicate the instrument for which the IDL applies with a "P" (for ICP), an "A" (for Flame AA), or an "F" (for Furnace AA) behind the IDL value.
- Indicate elements commonly run with background correction (AA) with a "B" behind the analytical wavelength.
- If more than one ICP/Flame or Furnace AA is used, submit separate Forms XI-XIII for each instrument.

COMMENTS: _____

Lab Manager _____

Form XII (Quarterly)

ICP Interelement Correction Factors / None Noted

LABORATORY HZM ICP Model Number ARI 3410

DATE 9/16/86

Analyte	Analyte Wavelength (nm)	Interelement Correction Factors for Al 60 mg/l	Ca 300 mg/l	Fe 250 mg/l	Mg 150 mg/l	Na 50 mg/l			
1. Antimony		0	→	→	→	→	→	→	
2. Arsenic									
3. Barium		0	→	→	→	→	→	→	
4. Beryllium		0	→	→	→	→	→	→	
5. Cadmium		0	→	→	→	→	→	→	
6. Chromium		0	→	→	→	→	→	→	
7. Cobalt		0	→	→	→	→	→	→	
8. Copper		0	→	→	→	→	→	→	
9. Lead									
10. Manganese		0	→	→	→	→	→	→	
11. Mercury									
12. Nickel		0	→	→	→	→	→	→	
13. Potassium									
14. Selenium									
15. Silver		0	→	→	→	→	→	→	
16. Sodium									
17. Thallium									
18. Vanadium		0	→	→	→	→	→	→	
19. Zinc		0	→	→	→	→	→	→	

COMMENTS: INORGANIC VENTURES INC. SUPPLIED INTERFERENCE STANDARD. EPA WP681 EQ.

Lab Manager

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Form XIII (Quarterly)
ICP Linear Ranges

LAB NAME HZM ICP Model Number ARL 3410

DATE 9/16/86

Analyte	Integration Time (Seconds)	Concen-tration (ug/L)	Analyte	Integration Time (Seconds)	Concen-tration (ug/L)
1. Aluminum		NA	13. Magnesium		NA
2. Antimony	1.0	10,000	14. Manganese	1.0	2000
3. Arsenic		NA	15. Mercury		NA
4. Barium	1.0	3000	16. Nickel	1.0	3000
5. Beryllium	1.0	1000	17. Potassium		NA
6. Cadmium	1.0	3000	18. Selenium		NA
7. Calcium		NA	19. Silver	1.0	3000
8. Chromium	1.0	3000	20. Sodium		NA
9. Cobalt	1.0	3000	21. Thallium		NA
10. Copper	1.0	3000	22. Vanadium	1.0	3000
11. Iron		NA	23. Zinc	1.0	3000
12. Lead		NA			

Footnotes: • Indicate elements not analyzed by ICP with the notation "NA".

COMMENTS: _____

Lab Manager _____

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VI. Sample Data for NJ DEP I.D. #'s: SED-1, SED-2, S-1, S-2, S-3, SW-1, SW2/SW2Q, TB, and FB

1. Reports for scans:

X	GC/MS Volatiles
X	GC/MS Extractables
X	Pesticides/PCB's
X	INORGANICS

2. Reporting Packages for Individual Samples

. Raw Data

DATA REPORTING QUALIFIERS

For reporting results to the USEPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g.: If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.)

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Form I. (continued).

III. 2. Reporting Package
NJ DEP I.D. # SED-1

H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Lab No. 660530
Type: Misc. - Tier I
Point: SED-1
Date Collected: 9/11/86
Date Received: 9/12/86
Collected By: CL 99

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Scan No.	Cas Number	Compound	ug/kg
	74-87-3	Chloromethane	10U
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl chloride	10U
	75-00-3	Chloroethane	10U
113	75-09-2	Methylene chloride	6J
	75-69-4	Trichlorofluoromethane	10U
	75-35-4	1,1-dichloroethene	10U
238	75-34-3	1,1-dichloroethane	46
	156-60-5	Cis/Trans-1,2-dichloroethene	10U
	67-66-3	Chloroform	10U
	107-06-2	1,2-dichloroethane	10U
336	71-55-6	1,1,1-Trichloroethane	190B
	56-23-5	Carbon tetrachloride	10U
	75-27-4	Bromodichloromethane	10U
	79-34-5	1,1,2,2-Tetrachloroethane	10U
	70-87-5	1,2-dichloropropane	10U
	10061-02-6	Trans-1,3-dichloropropene	10U
	79-01-6	Trichloroethene	10U
	124-48-1	Dibromochloromethane	10U
	79-00-5	1,1,2-trichloroethane	10U
	71-43-2	Benzene	10U
	10061-01-5	cis-1,3-Dichloropropene	10U
	110-75-8	2-chloroethylvinyl ether	10U
	75-25-2	Bromoform	10U
	127-10-4	Tetrachloroethene	10U
	106-88-3	Toluene	10U
	106-90-7	Chlorobenzene	10U
	100-41-4	Ethylbenzene	10U
	541-73-1	1,2-Dichlorobenzene	10U
	95-50-1	1,3-Dichlorobenzene	10U
	106-46-1	1,4-Dichlorobenzene	10U

Date Reported: 10/15/86

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S.C. McLendon, P.E.
Laboratory Director

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob. FIT	% Prob. RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown (Carbon Dioxide)	-		12	510B
2.		Unknown	-		30	97
3.	75-18-3	Thiobismethane	88	65	135	39
4.	110-54-3	Hexane	96	98	483	20
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H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

Lab Name: H2M Labs
Concentration: Low

Sample Lab No. 660531 - SED-1

Date Extracted: 9/24/86
Date Analyzed: 10/6/86

Dil. Factor: 1:2

Semi-Volatile Compounds

C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan No.
65-75-9	N-Nitrosodimethylamine	20000U	83-32-9	Acenaphthene	20000U	
108-95-2	Phenol	20000U	51-28-5	2,4-Dinitrophenol	20000U	
62-53-3	Aniline	20000U	100-02-7	4-Nitrophenol	20000U	
111-44-4	bis(2-Chloroethyl)Ether	20000U	121-14-2	2,4-Dinitrotoluene	20000U	
95-57-8	2-Chlorophenol	20000U	606-20-2	2,6-Dinitrotoluene	20000U	
541-73-1	1,3-Dichlorobenzene	20000U	84-66-2	Diethylphthalate	20000U	
106-46-7	1,4-Dichlorobenzene	20000U	7005-72-3	4-Chlorophenyl-phenylether	20000U	
95-50-1	1,2-Dichlorobenzene	20000U	86-73-7	Fluorene	20000U	
39638329	bis(2-chloroisopropyl)ether	20000U	534-52-1	4,6-Dinitro-2-Methylphenol	20000U	
621-64-7	N-Nitroso-Di-n-Propylamine	20000U	86-30-6	N-Nitrososdiphenylamine (1)	20000U	
67-72-1	Hexachloroethane	20000U	101-55-3	4-Bromophenyl-phenylether	20000U	
98-95-3	Nitrobenzene	20000U	118-74-1	Hexachlorobenzene	20000U	
78-59-1	Isophorone	20000U	87-86-5	Pentachlorophenol	20000U	
88-75-5	2-Nitrophenol	20000U	85-01-8	Phenanthrene	20000U	
105-67-9	2,4-Dimethylphenol	20000U	120-12-7	Anthracene	20000U	
111-91-1	bis(2-Chloroethoxy)Methane	20000U	84-74-2	Di-n-Butylphthalate	20000U	
120-83-2	2,4-Dichlorophenol	20000U	206-44-0	Fluoranthene	20000U	
120-82-1	1,2,4-Trichlorobenzene*	1600J	92-87-5	Benzidine	60000U	
91-20-3	Naphthalene	20000U	129-00-0	Pyrene	20000U	
87-68-3	Hexachlorobutadiene	20000U	85-68-7	Butylbenzylphthalate	1700J	1429
59-50-7	4-Chloro-3-Methylphenol	20000U	91-94-1	3,3'-Dichlorobenzidine	20000U	
77-47-4	Hexachlorocyclopentadiene	20000U	56-55-3	Benzo(a)Anthracene	20000U	
88-06-2	2,4,6-Trichlorophenol	20000U	117-81-7	bis(2-Ethylhexyl)Phthalate	26200	1524
91-58-7	2-Chloronaphthalene	20000U	218-01-9	Chrysene	20000U	
131-11-3	Dimethyl Phthalate	20000U	117-84-0	Di-n-Octyl Phthalate	20000U	
208-96-8	Acenaphthylene	20000U	205-99-2	Benzo(b)Fluoranthene	20000U	
			207-08-9	Benzo(k)Fluoranthene	20000U	
			50-32-8	Benzo(a)Pyrene	20000U	
			193-39-5	Indeno(1,2,3-cd)Pyrene	20000U	
			53-70-3	Dibenzo(a,h)Anthracene	20000U	
			191-24-2	Benzo(g,h,i)Perylene	20000U	

* Scan No. 608

(1) Cannot be separated from diphenylamine

Date Reported: 10/16/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: SED-1

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob FIT|RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown		610	13400J
2.					
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H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 660532
Date Extracted: 9/19/86
Date Analyzed: 10/6/86
Type: Misc. - Tier I
Point: SED-1
Collected By: CL 99

ANALYSIS FOR PESTICIDES/PCB's

C.A.S. No.	Compound	ug/kg
319-84-6	Alpha-BHC	8U
319-87-7	Beta-BHC	8U
319-86-8	Delta-BHC	100B
58-89-9	Gamma-BHC (Lindane)	65U
76-44-8	Heptachlor	120U
309-00-2	Aldrin	990
1024-57-3	Heptachlor Epoxide	1000U
959-98-8	Endosulfan I	250U
68-57-1	Dieldrin	1000U
72-55-9	4,4'-DDE	250U
72-20-8	Endrin	250U
33213-65-9	Endosulfan II	250U
72-54-8	4,4'-DDD	250U
1031-07-8	Endosulfan Sulfate	100U
50-29-3	4,4'-DDT	1000U
72-43-5	Methoxychlor	80U
53494-70-5	Endrin Ketone	16U
57-74-9	Chlordane	250U
8001-35-2	Toxaphene	250U
12674-11-2	Aroclor 1016	80U
11104-28-2	Aroclor 1221	80U
11141-16-5	Aroclor 1232	80U
53469-21-9	Aroclor 1242	80U
12672-29-6	Aroclor 1248	80U
11097-69-1	Aroclor 1254	25000
11096-82-5	Aroclor 1260	1000U

Vi = Volume of extract injected (uL)
Ws = Weight of sample extracted (g)
Vs = Ws = 6.73 g Vt = 10 mL
Date Reported: 10/17/86

Vs = Volume of water extracted (mL)
Vt = Volume of Total extract (mL)
Vi = 5 uL

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S.C. McLendon, P.E.
Laboratory Director

Lab Name : H2M LABS

ORGANICS ANALYSIS DATA SHEET

Sample Number
660532

NJDEP #CD910-SED1
Run 2262

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Probability FIT	% Probability REFIT	RT or Scan Number	Estimated Concentration (ug/L or ug/kg) (Dry wt.)
1.		Unknown			0.79	280
2.		"			1.79	410
3.		"			2.79	650
4.		"			3.3B	1200
5.		"			19.65	720
6.		"			21.94	420
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Date Reported 10-16-86

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S.C. McLendon, P.E.
Laboratory Director

H2M
Environmental Engineers & Scientists
HOLZMACHER, McLENDON and MURRELL, P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

WATER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

LAB NO. 660533
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.
65 PROSPECT ST.
TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 9/11/86 DATE RECEIVED - 9/12/86

NJDEP SAMPLE #CD910-SED1
NJDEP SAMPLE POINT I.D. #SED1

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	62.8 N	SELENIUM	<3.60 N
ARSENIC	64.3	SILVER	3.60 N
BERYLLIUM	20.0	THALLIUM	<3.60 N
CADMIUM	33.9	ZINC	745. N
CHROMIUM	82.5	PHENOLS	0.11
COPPER	427.	CYANIDE	<7.30
LEAD	321.	TOTAL SOLIDS	56.0 %
MERCURY	0.24 N		
NICKEL	142.		

ALL RESULTS REPORTED IN mg/kg DRY WEIGHT

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY $ (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 10/ 8/86

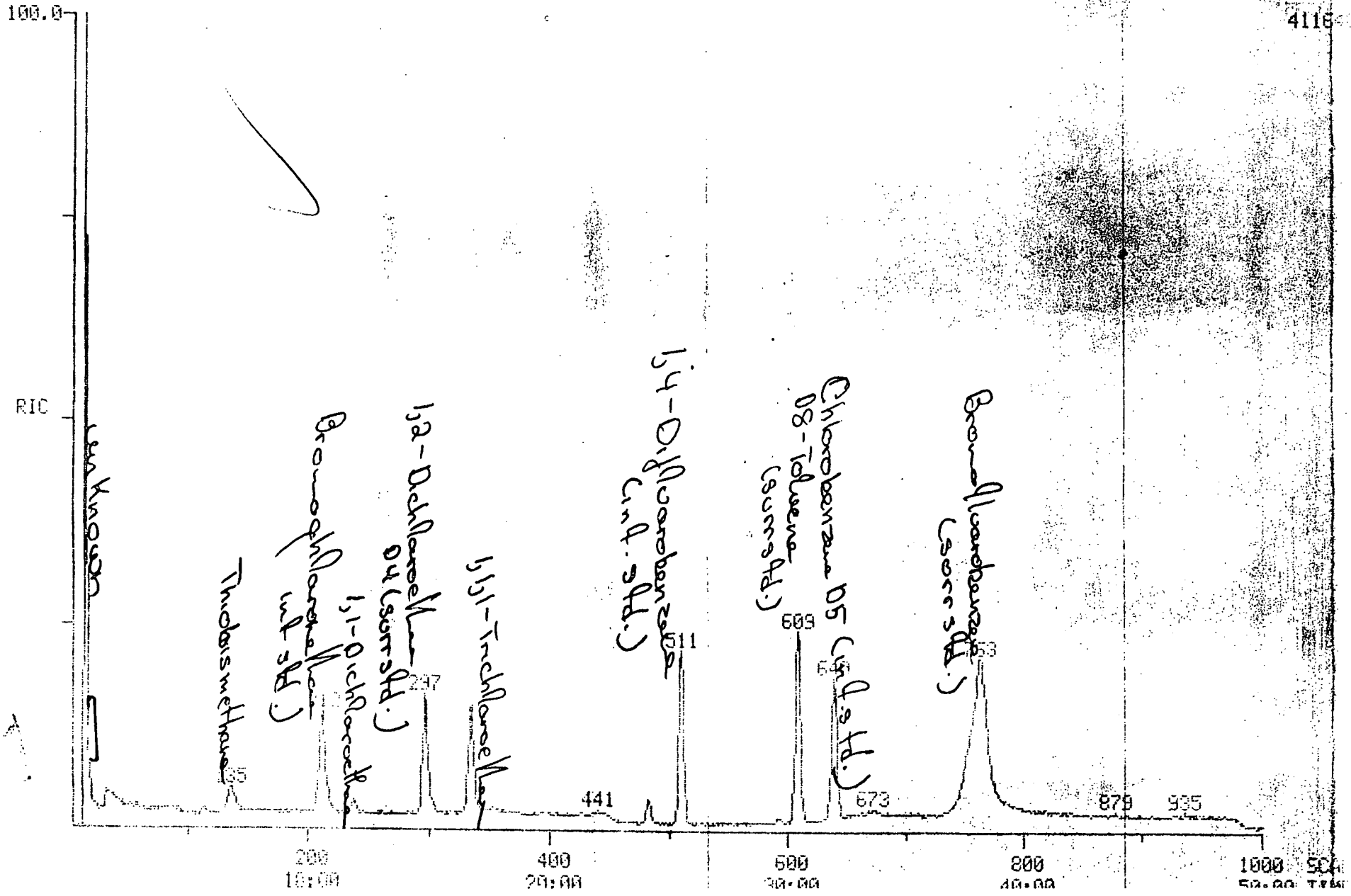
S. C. McLENDON, P.E., LABORATORY DIRECTOR

THE LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

RIC
03/26/86 14:40:00
SAMPLE: 660530
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6428 #1
CALI: PU6428 #2

SCANS 1 TO 1000



QUANTITATION REPORT FILE: PU6429

DATA: PU6429.TI
09/26/86 15:32:00
SAMPLE: 1.5697G 660530
COMMENTS:
SUBMITTED BY: NJDEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D8-TOLUENE(SURR STD)
48	BROMOFLUOROBENZENE(SURR STD)

No	M/Z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot

3	NOT FOUND									
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	84	113	5:39	1	0.533	A BB	2133.	8.693	NG	0.40
8	43	145	7:15	1	0.684	A BB	2626.	28.588	NG	1.30
9	NOT FOUND									
10	NOT FOUND									
11	63	238	11:54	1	1.123	A BB	19005.	71.617	NG	3.26
12	96	261	13:03	1	1.231	A BB	160.	0.805	NG	0.04
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
17	NOT FOUND									
18	NOT FOUND									
19	114	511	25:33	19	1.000	A BB	159683.	250.000	NG	11.37
20	43	304	15:12	19	0.595	A VB	15024.	101.409	NG	4.61
21	97	336	16:48	19	0.658	A BV	82422.	295.287	NG	13.43
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	117	639	31:57	33	1.000	A BB	93569.	250.000	NG	11.37
34	43	531	26:33	33	0.831	A BB	654.	262.888	NG	11.96
35	43	566	28:18	33	0.886	A*BV	1870.	110.034	NG	5.00
36	NOT FOUND									
37	NOT FOUND									
38	92	614	30:42	33	0.961	A BB	890.	2.388	NG	0.11
39	NOT FOUND									
40	NOT FOUND									
41	NOT FOUND									
42	NOT FOUND									
43	NOT FOUND									
44	NOT FOUND									
45	NOT FOUND									
46	NOT FOUND									
47	100	609	30:27	33	0.953	A BB	61292.	253.729	NG	11.54
48	95	762	38:06	33	1.192	A BB	83822.	236.980	NG	10.78

QUANTITATION REPORT FILE: PU6428

DATA: PU64 TI
9/26/86 14:40:00
SAMPLE: 660530
COMDS.
SUBMITTED BY: DEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FACT FROM LIBRARY ENTRY

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D8-TOLUENE(SURR. STD)
48	BROMOFLUOREBENZENE(SURR. STD)

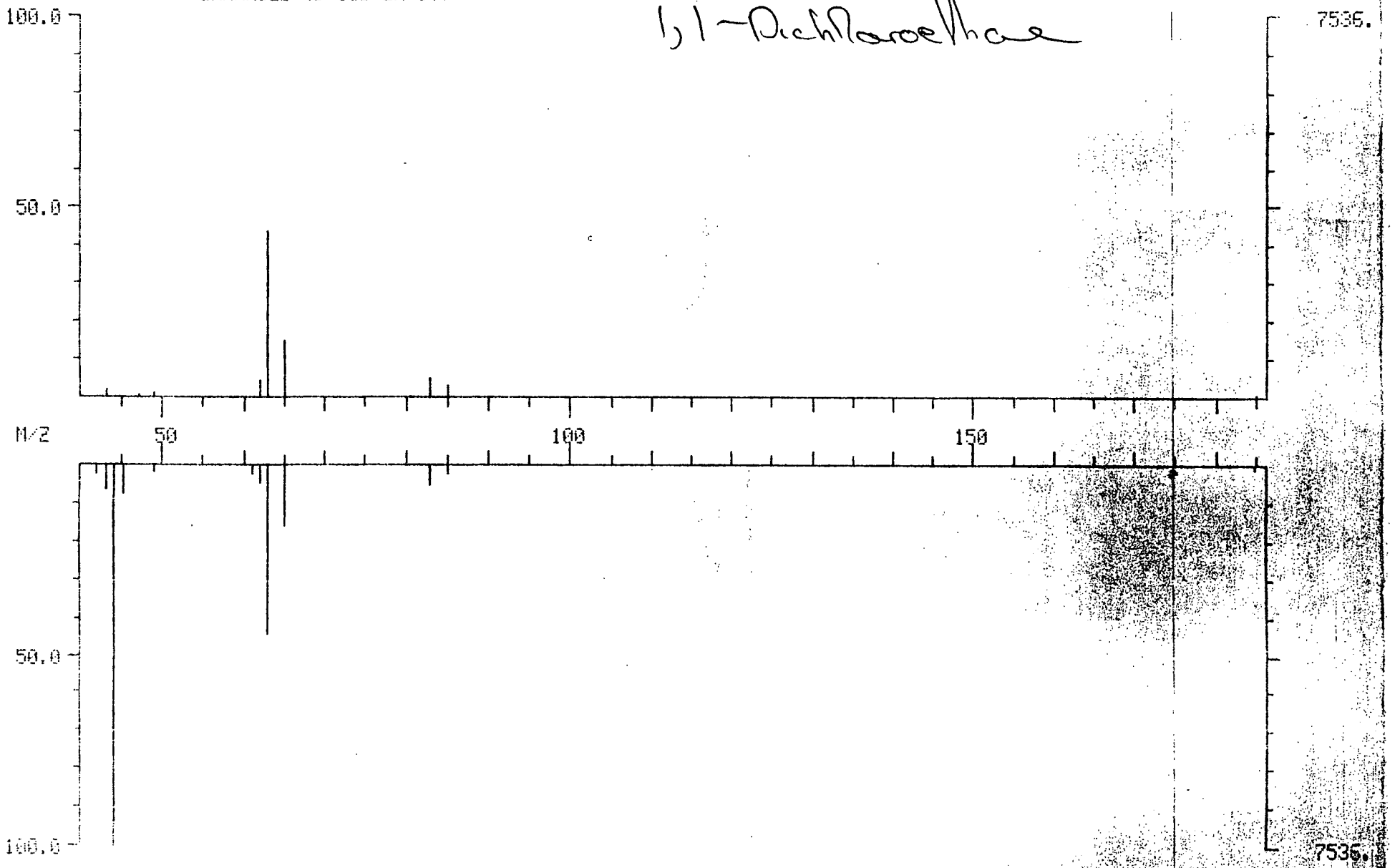
No	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

DUAL MASS SPECTRUM
03/26/86 14:40:00 + 11:54
SAMPLE: 660530
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6428 #238
CALI: PU5428 #2

BASE M/Z: 63/ 44
RIC: 5599./ 14703.

1,1-Dichloroethane

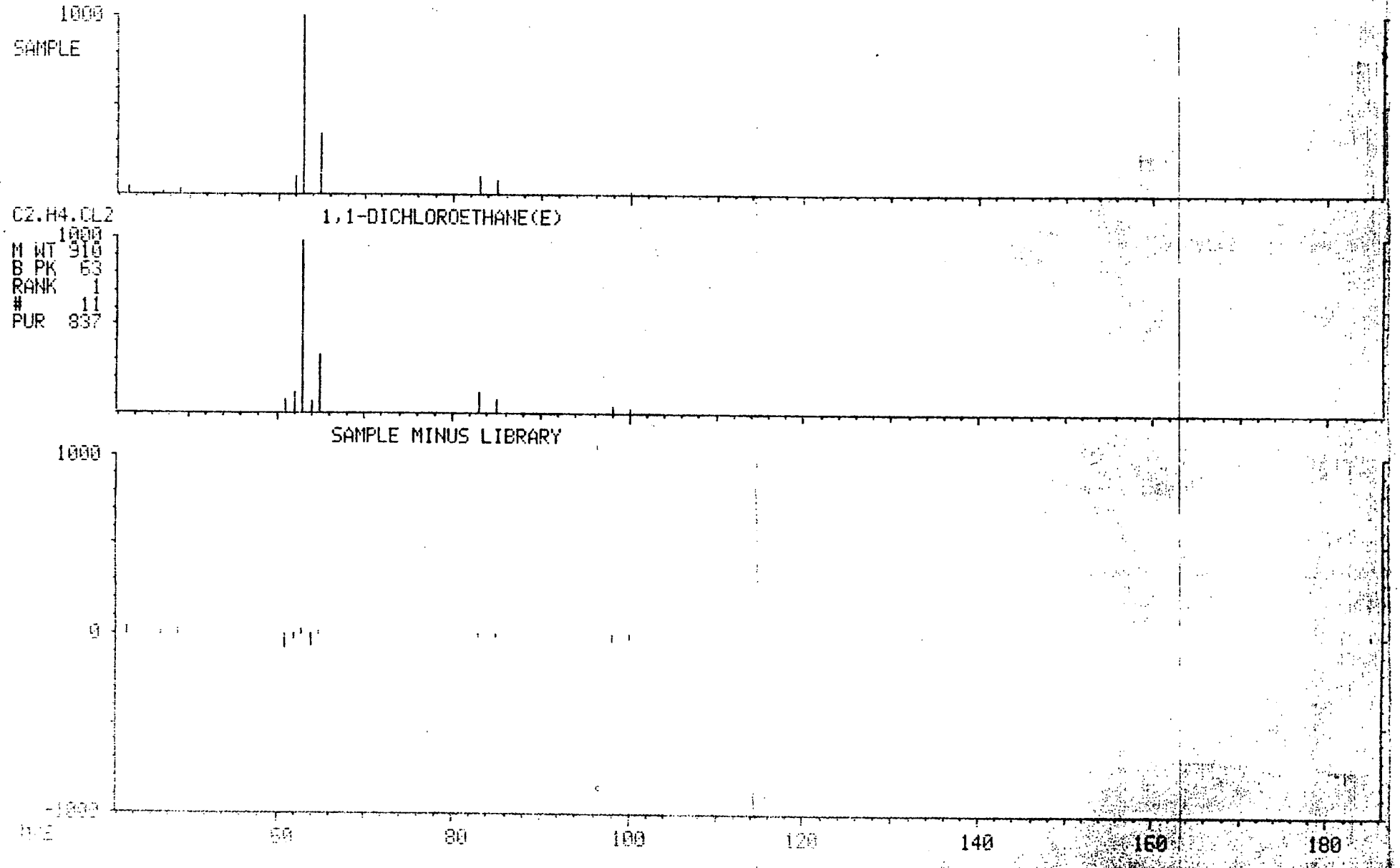


85

LIBRARY SEARCH
09/26/85 14:40:00 + 11:54
SAMPLE: 680530
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6428 # 238
CALI: PU6428 # 2

BASE M/Z: 63
RIC: 5599.

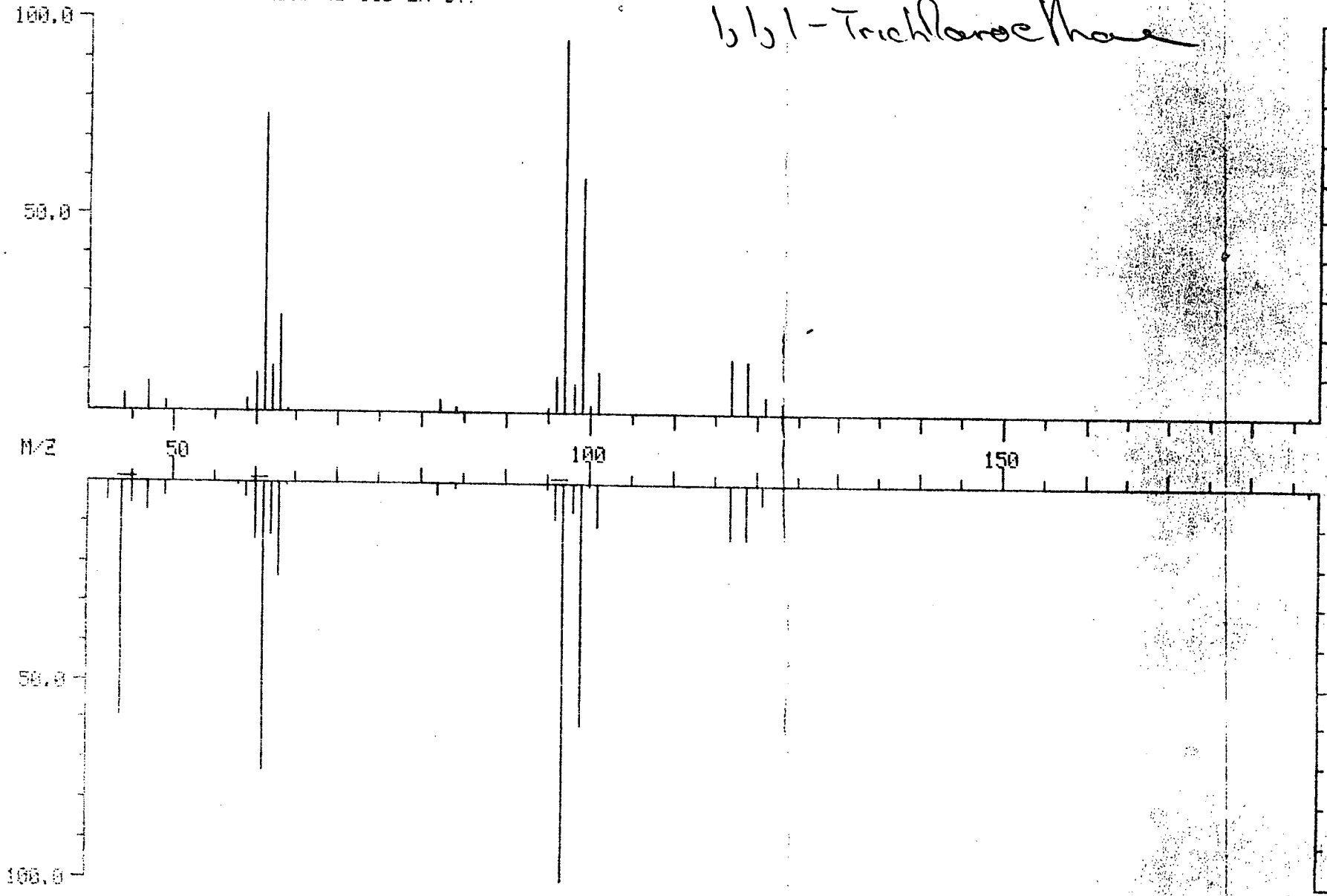


DUAL MASS SPECTRUM
09/25/86 14:40:00 + 16:48
SAMPLE: 660530
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6428 #336
CALI: PU6428 #2

BASE M/Z: 97/ 97
RIC: 52031./ 62783.

1,1,1-Trichloroethane

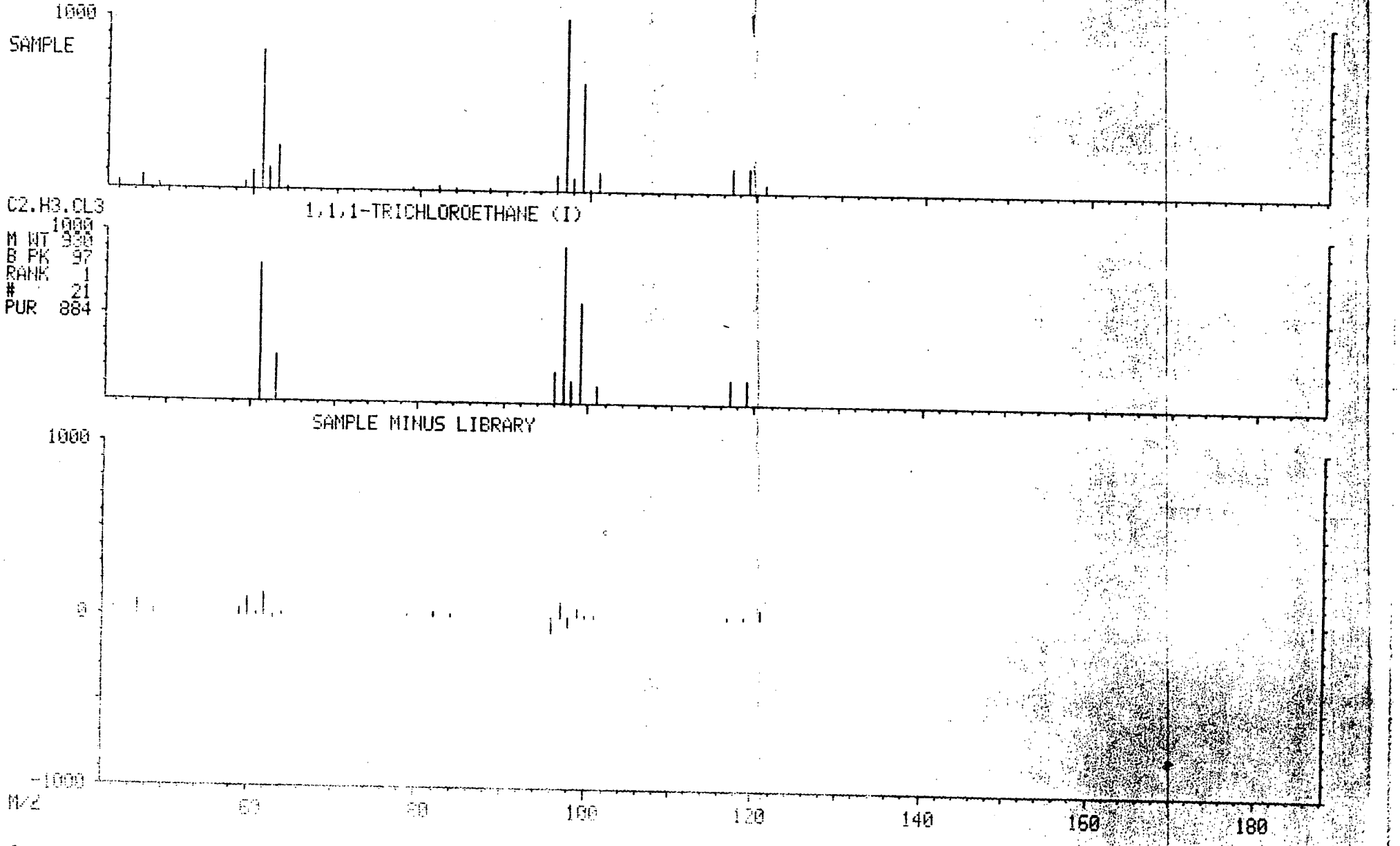


87

LIBRARY SEARCH
09/26/06 14:40:03 + 16:48
SAMPLE: 890530
CMDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6428 # 336
CALI: PU6428 # 2

BASE M/Z: 97
RIC: 51775.



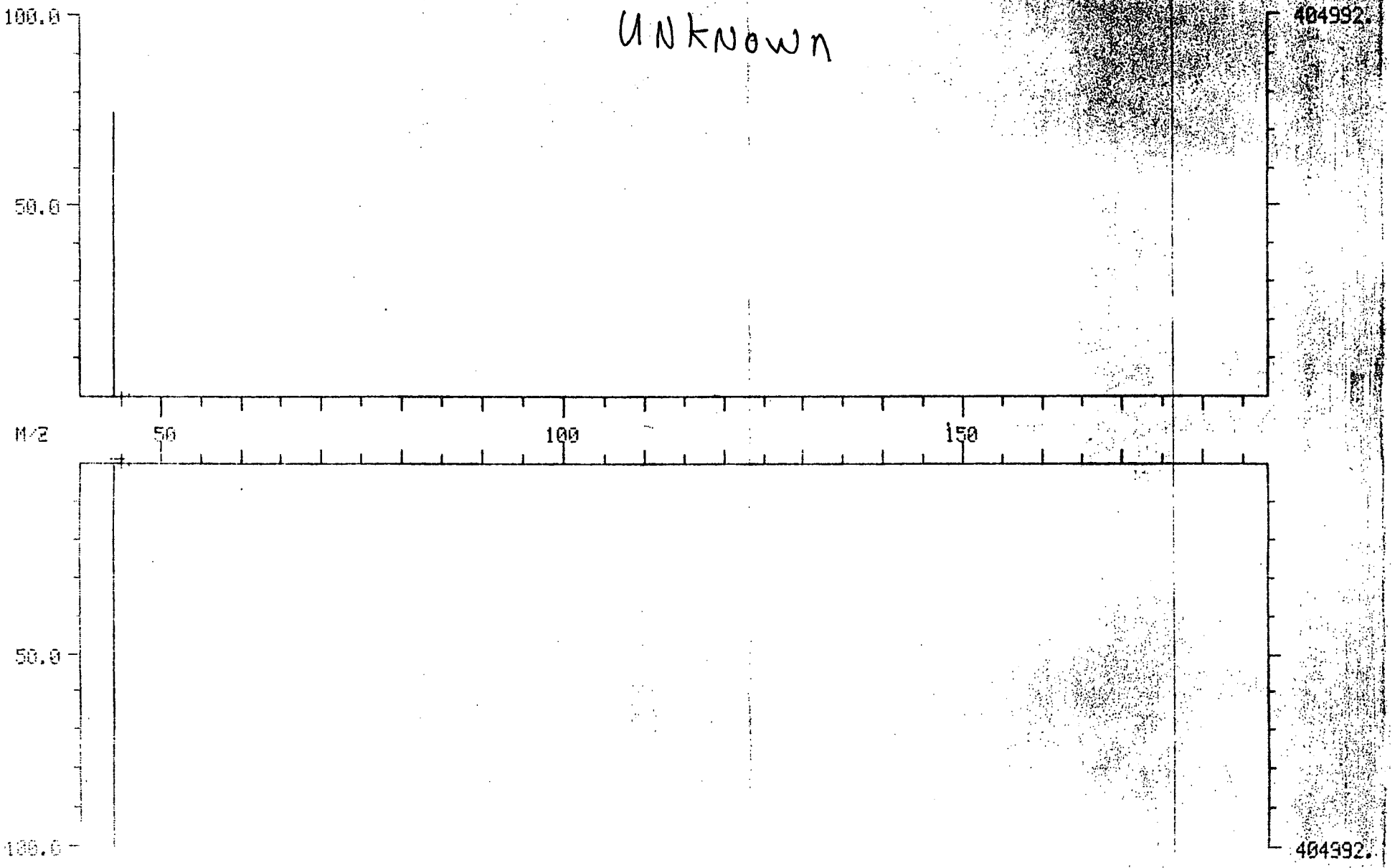
88

DUAL MASS SPECTRUM
09/26/86 14:40:08 + 0:36
SAMPLE: 660530
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6428 #12
CALI: PU6428 #2

BASE M/Z: 44/ 44
RIC: 307711./ 411647.

UNKNOWN

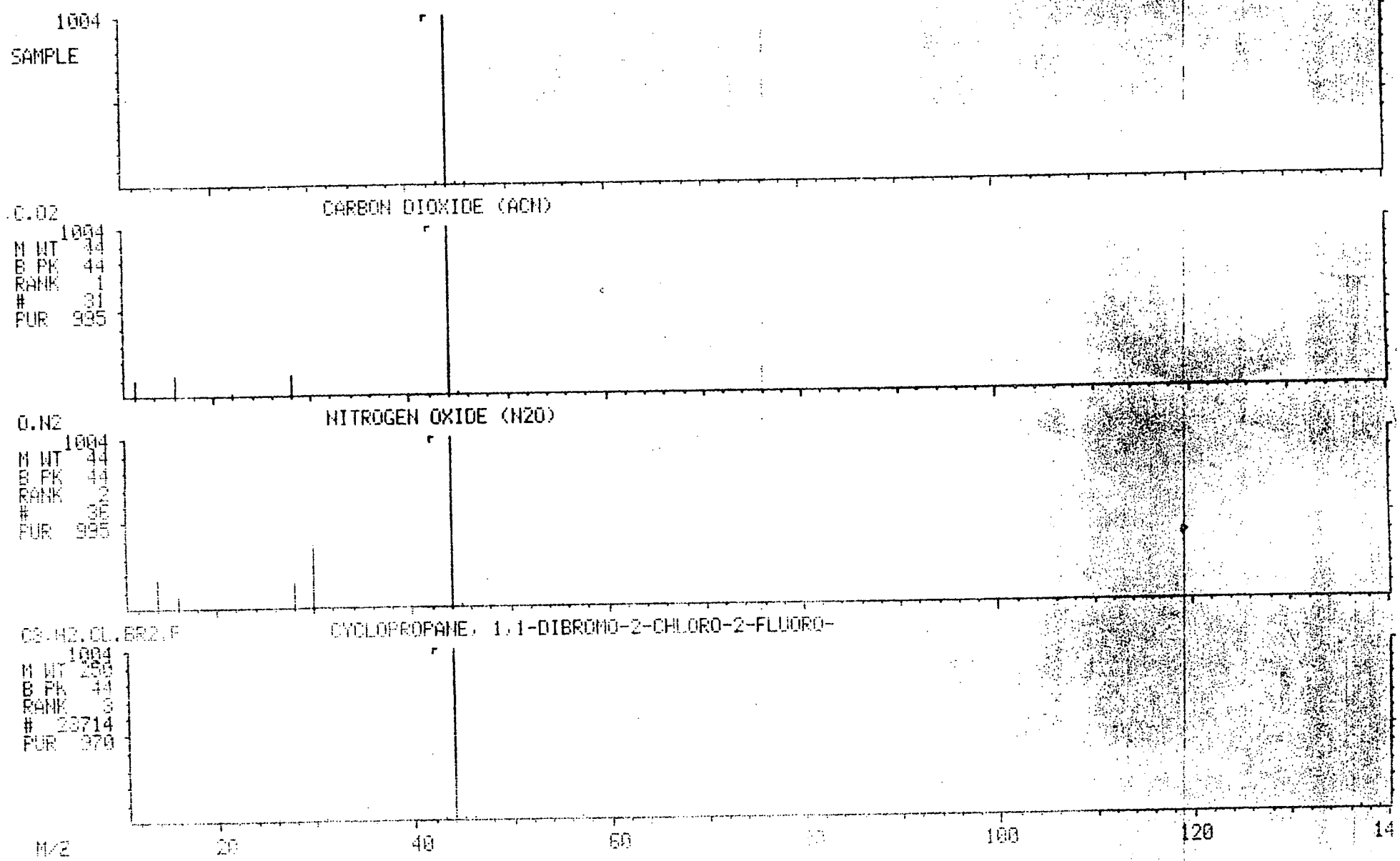


89

LIBRARY SEARCH
09/26/86 14:40:00 + 0:35
SAMPLE: 660530
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6428 # 12
CALI: PU6428 # 2

BASE M/Z: 44
RIC: 307711.



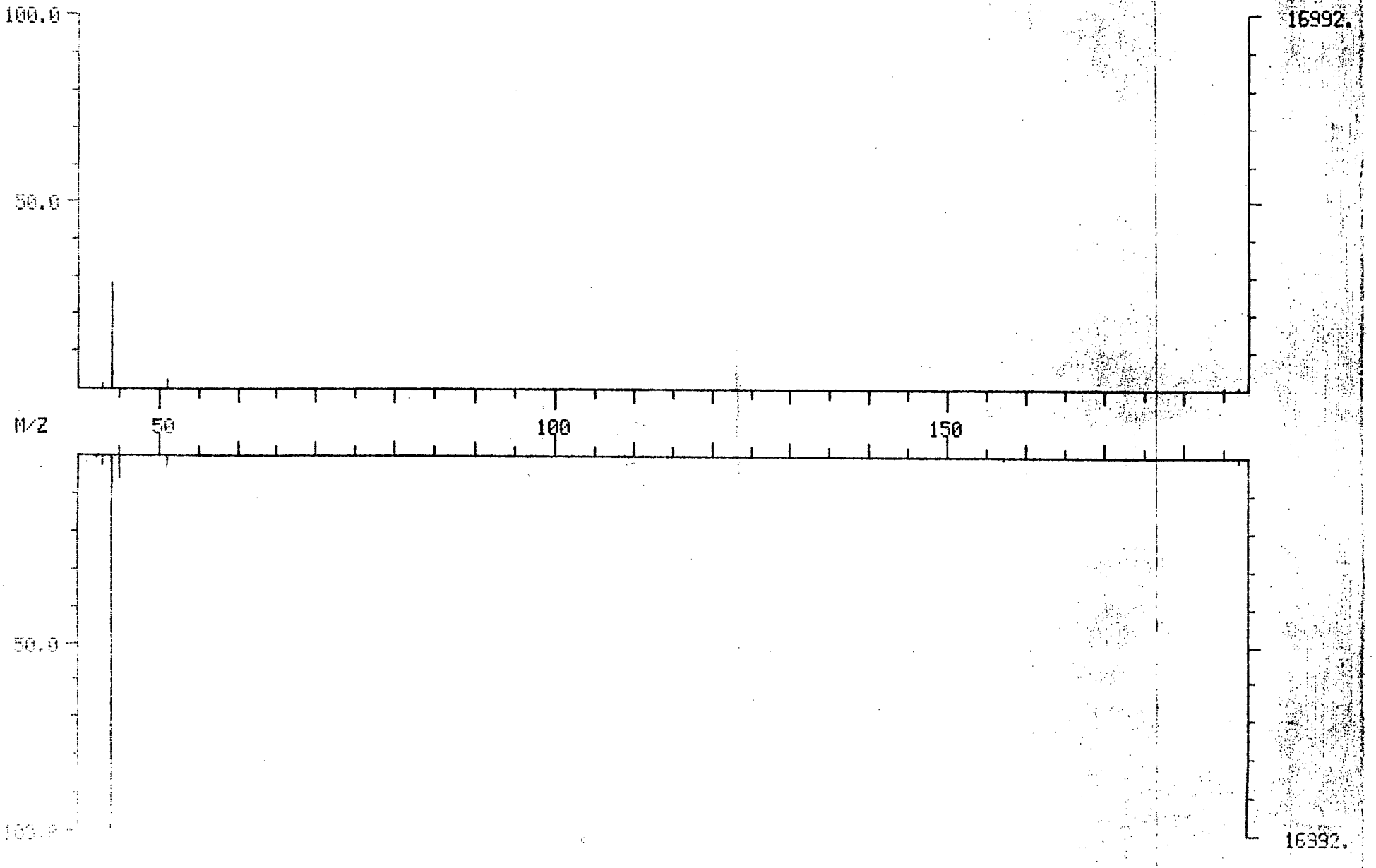
90

DUAL MASS SPECTRUM
03/26/86 14:40:08 + 1:30
SAMPLE: 6[illegible]
CONDS.:
ENHANCED (S 150 2N 0T)

DATA: FU6428 #30
CALI: FU6428 #2

BASE M/Z: 44/ 44
RIC: 5695./ 19199.

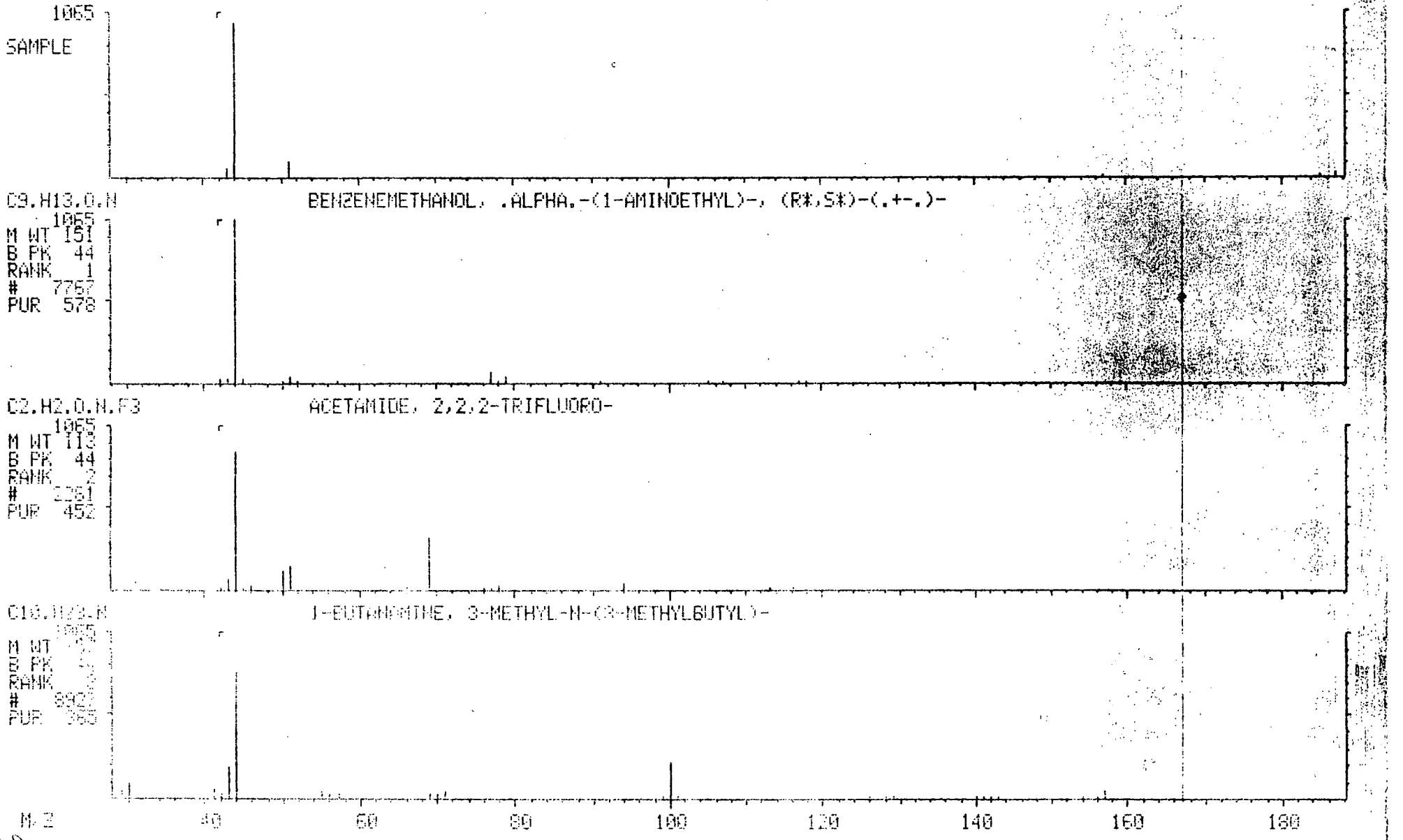
Unknown



LIBRARY SEARCH
07 26/85 14:40:08 + 1:30
SAMPLE: 860500
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6428 # 30
CALI: PU6428 # 2

BASE M/Z: 44
RIC: 5695.



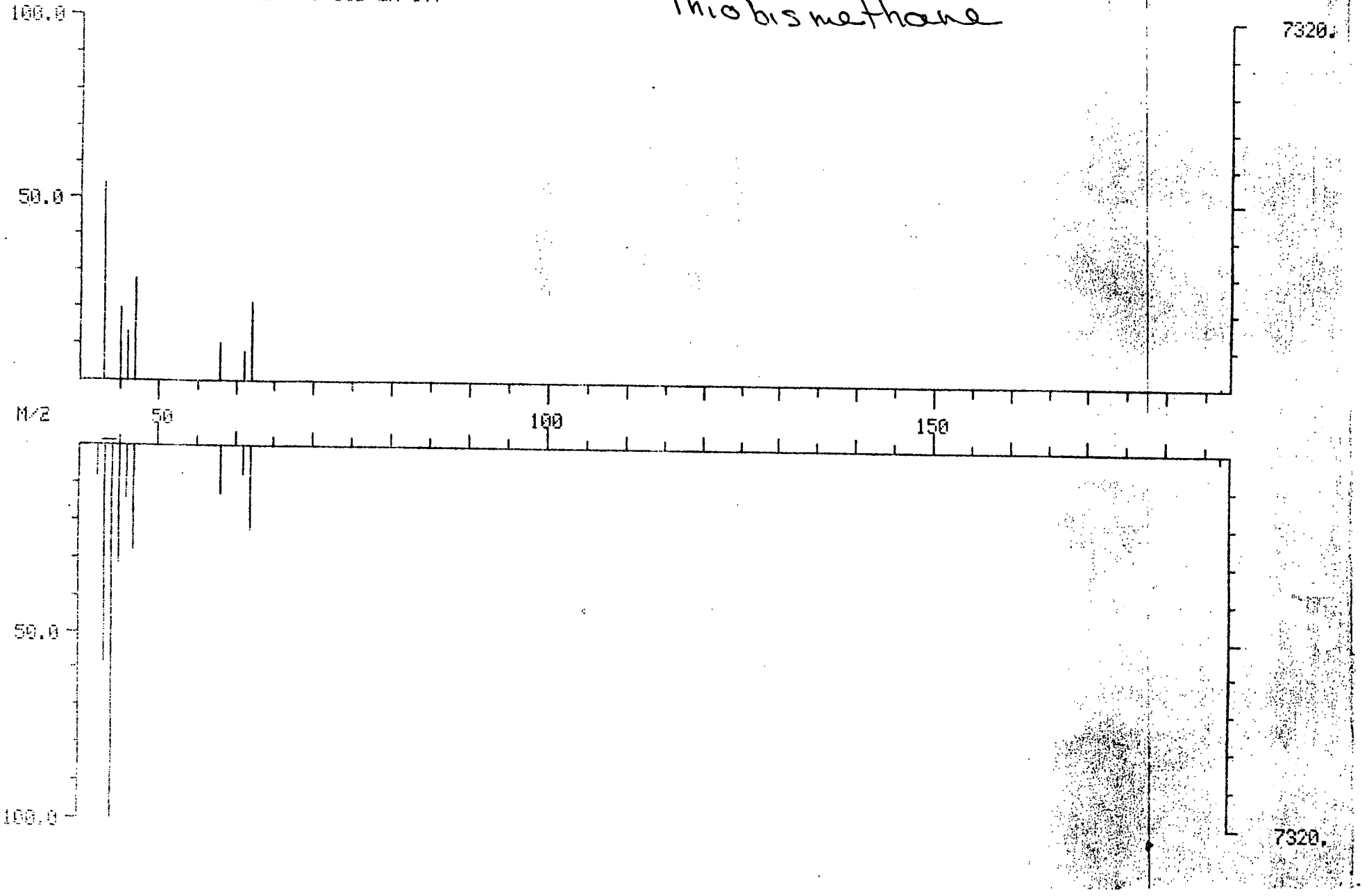
92

DUAL MASS SPECTRUM
99/25/86 14:40:00 + 6:45
SAMPLE: 660530
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6428 #135
CALI: PU6428 #2

BASE M/Z: 43/ 44
RIC: 11279./ 20831.

Thiobismethane

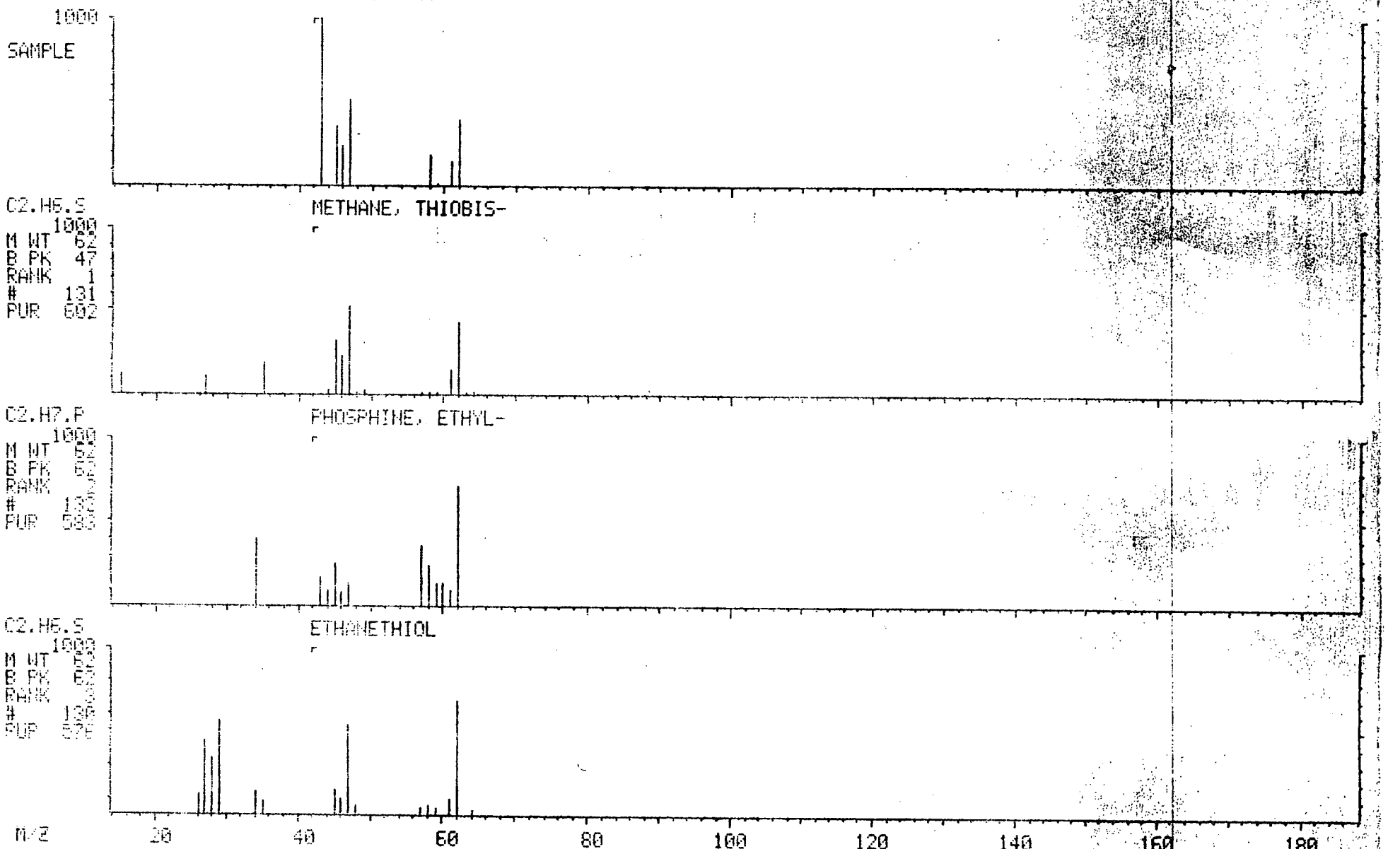


93

LIBRARY SEARCH
09/26/86 14:40:00 + 6:45
SAMPLE: 660530
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6428 # 135
CALI: PU6428 # 2

BASE M/Z: 43
RIC: 11279.



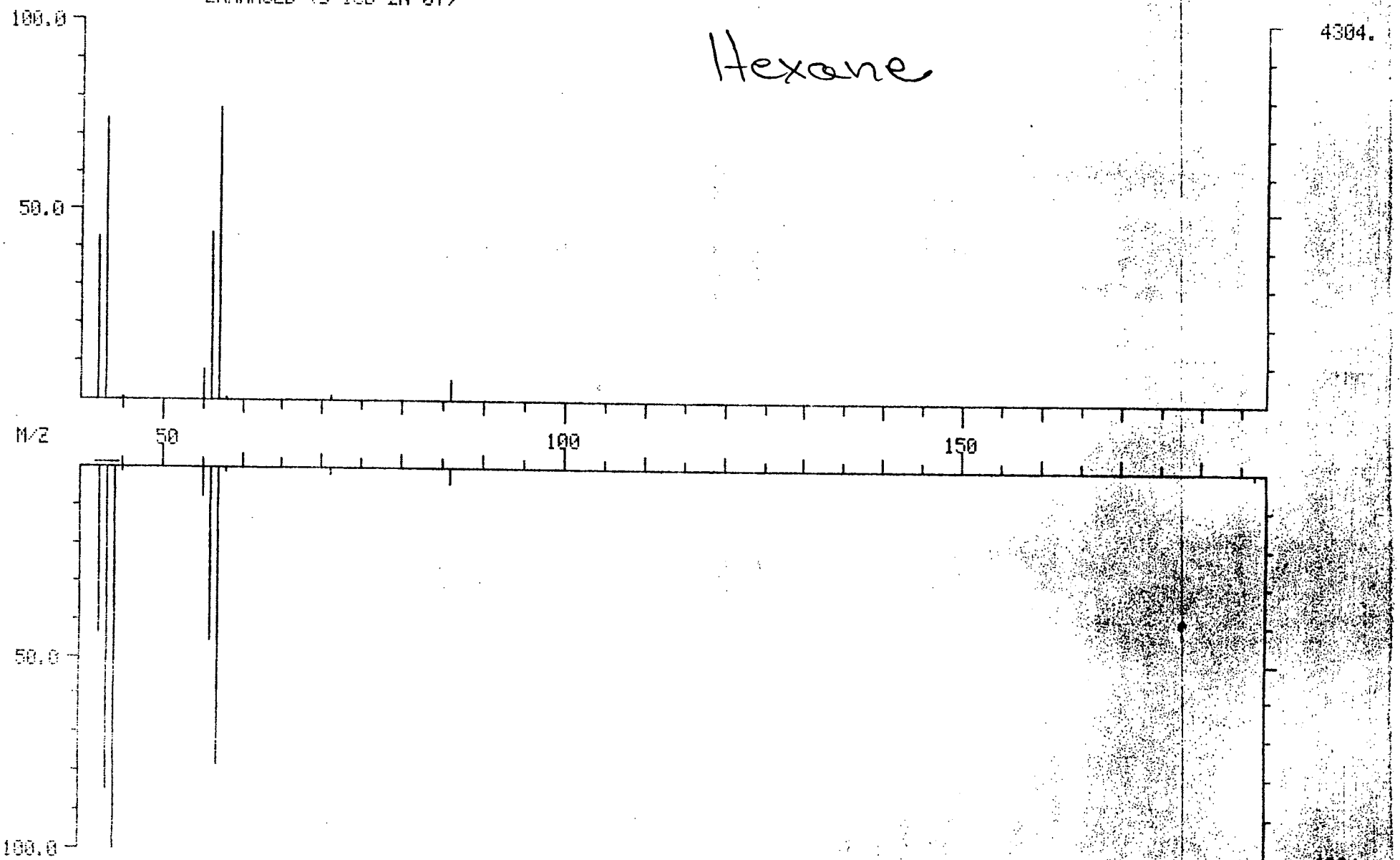
94

DUAL MASS SPECTRUM
09/26/86 14:40:00 + 24:09
SAMPLE: 660530
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6428 #483
CALI: PU6428 #2

BASE M/Z: 57/ 44
RIC: 10911./ 15935.

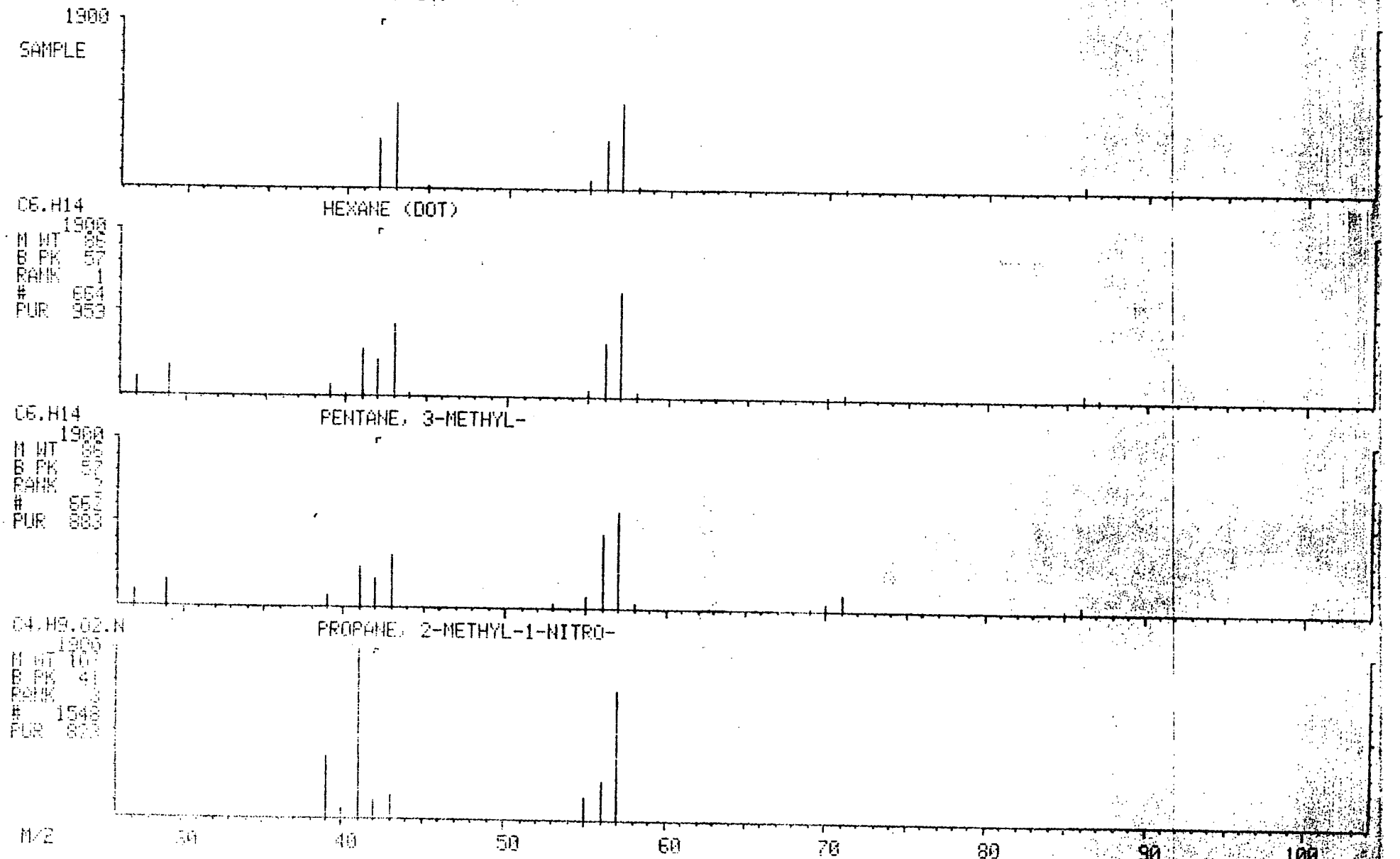
Hexane



LIBRARY SEARCH
09/26/86 14:40:00 + 24:09
SAMPLE: 660530
CONDS.:
ENHANCED (S 15B 2N 0T)

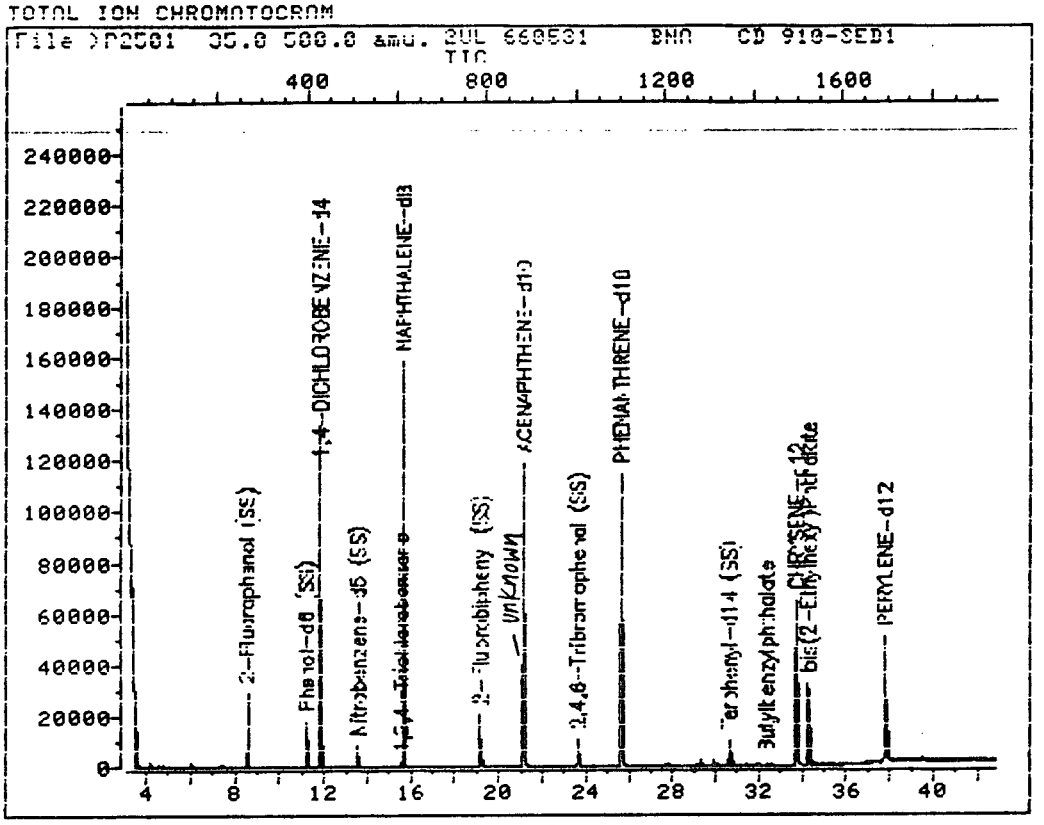
DATA: PU6428 # 483
CALI: PU6428 # 2

BASE M/Z: 57
RIC: 10911.



96

TOTAL ION CHROMATOGRAM



Data File: >P2501::D3
Name: 2UL 660531 BNA
Misc: CD 910-SED1

BTL#91

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861006 19:44

Operator ID: STEVE
Quant Time: 861006 20:16
Injected at: 861006 19:31

QUANT REPORT

Operator ID: STEVE
Output File: ^P2501::OP
Data File: >P2501::D3
Name: 2UL 660531 BNA
Misc: CD 910-SED1

Quant Rev: 4
Quant Time: 861006 20:16
Injected at: 861006 19:31
Dilution Factor: 1.00

BTL#91

ID File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861006 19:44

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.82	427	52154	40.00	NG	92
3)	2-Fluorophenol (SS)	8.51	265	17091	11.71	NG	84
7)	Phenol-d6 (SS)	11.19	396	15764	9.75	NG	74
15)	*NAPHTHALENE-d8	15.63	613	169025	40.00	NG	49
16)	Nitrobenzene-d5 (SS)	13.54	511	6379	4.08	NG	97
23)	1,2,4-Trichlorobenzene	15.52	608	1256	.69	NG	92
27)	*ACENAPHTHENE-d10	21.11	881	70463	40.00	NG	87
31)	2-Fluorobiphenyl (SS)	19.12	784	19793	7.00	NG	98
42)	2,4,6-Tribromophenol (SS)	23.58	1002	6508M	10.33	NG	
43)	*PHENANTHRENE-d10	25.61	1101	113689	40.00	NG	52
54)	*CHRYSENE-d12	33.70	1497	84298	40.00	NG	46
55)	Terphenyl-d14 (SS)	30.59	1345	11420	8.45	NG	38
58)	Butylbenzylphthalate	32.31	1429	1151	.74	NG	93
61)	bis(2-Ethylhexyl)Phthalate	34.25	1524	25220	11.17	NG	89
63)	*PERYLENE-d12	37.77	1696	78941	40.00	NG	79

* Compound is ISTD

MS data file header from : >P2501

Sample: 2UL 660531 BNA Operator: STEVE MS 10/06/86 19:31
Misc : CD 910-SED1 BTL#91
Sys. #: 1 MS model: 96 SW/HW rev.: CA ALS # : 0
Method file: EXTRII Tuning file: MT9301 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 220 Transfer line temp. : 280

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

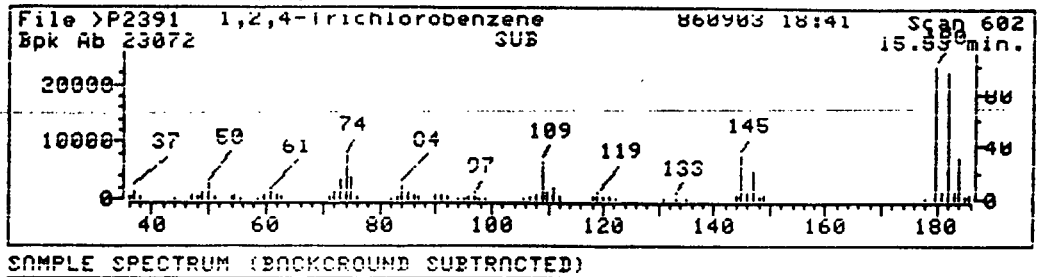
>P2501 2UL 660531 BNA CD 910-SED1
35.01 500.0 CLP ADC TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	15.566	605	610	610	14748	54355	54355	14.56	4.67
2	15.627	610	613	616	157725	378729	373407	100.00	32.08
3	21.189	877	885	893	2131	19612	19612	5.25	1.68
4	23.581	999	1002	1010	10950	38125	38125	10.21	3.27
5	25.605	1097	1101	1106	114027	304894	304894	81.65	26.20
6	33.703	1493	1497	1504	64246	207909	202206	54.15	17.37
7	37.773	1692	1696	1703	47929	203304	171099	45.82	14.70

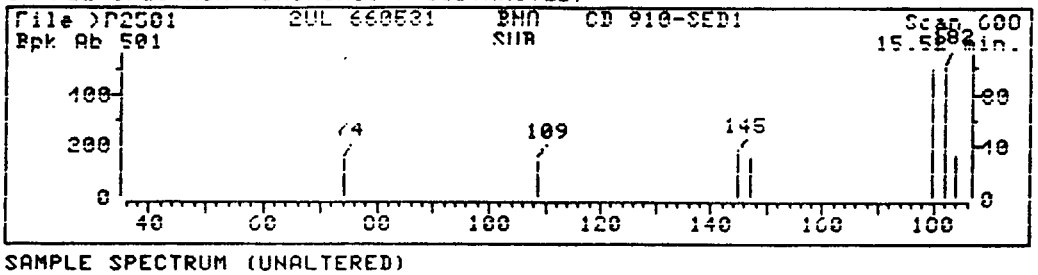
Sum of corrected areas: 1163698.

1:57 PM TUE., 7 OCT., 1986

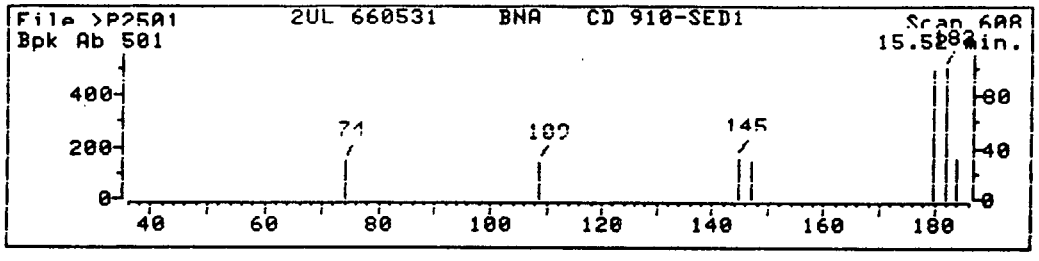
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

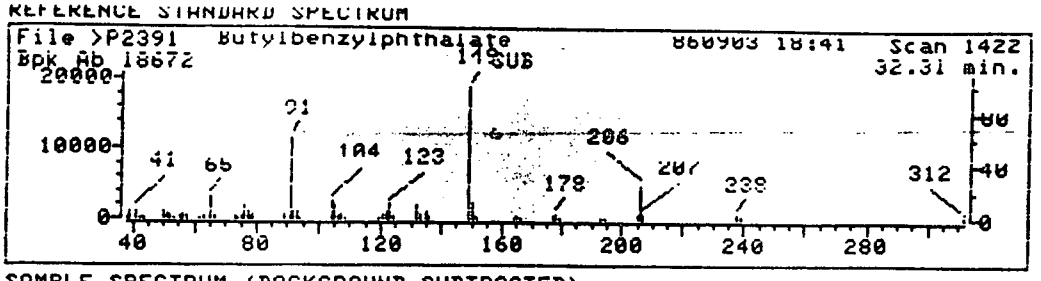


Data File: >P2501::D3
Name: 2UL 660531 BNA
Misc: CD 910-SED1
Quant Time: 861006 20:16
Injected at: 861006 19:31

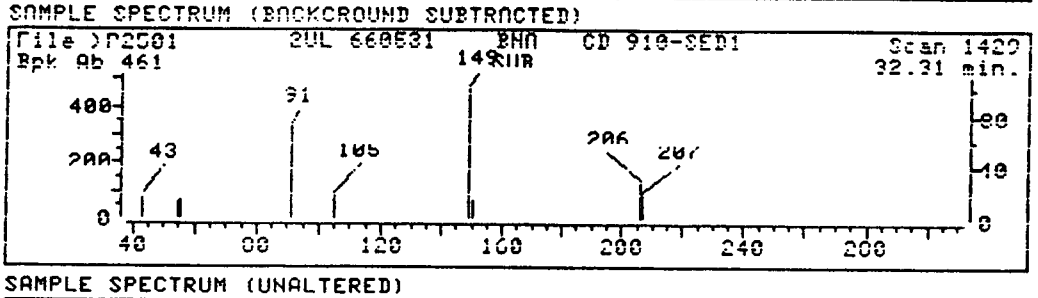
BTL#91

Compound No: 23
Compound Name: 1,2,4-Trichlorobenzene
Scan Number: 608
Retention Time: 15.52 min.
Area: 1256
Concentration: .69 NG
q-value: 92

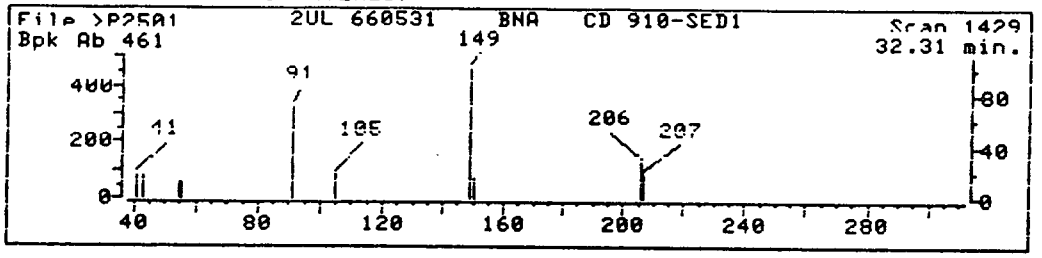
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

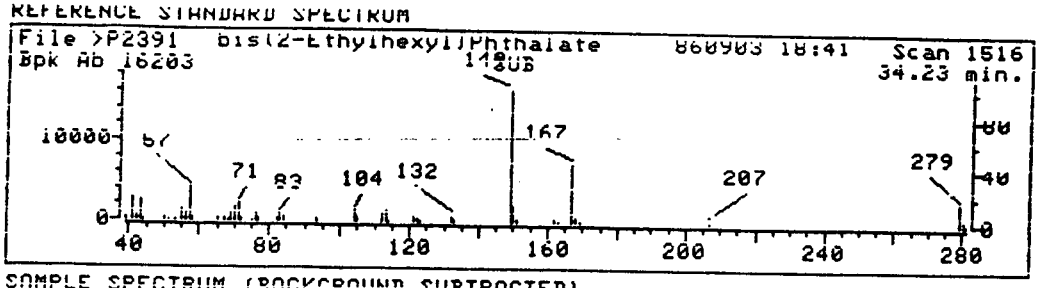


Data File: >P2501::D3
Name: 2UL 660531 BNA
Misc: CD 910-SED1
Quant Time: 861006 20:16
Injected at: 861006 19:31

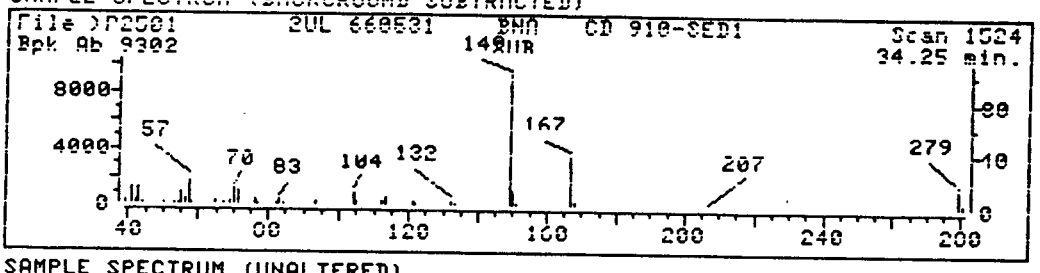
BTL#91

Compound No: 58
Compound Name: Butylbenzylphthalate
Scan Number: 1429
Retention Time: 32.31 min.
Area: 1151
Concentration: .74 NG
q-value: 93

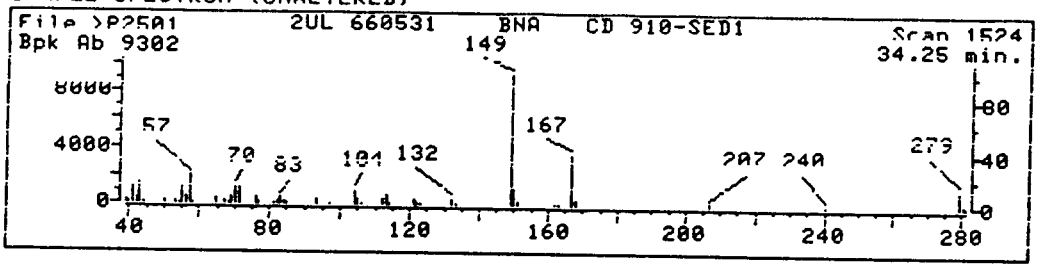
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



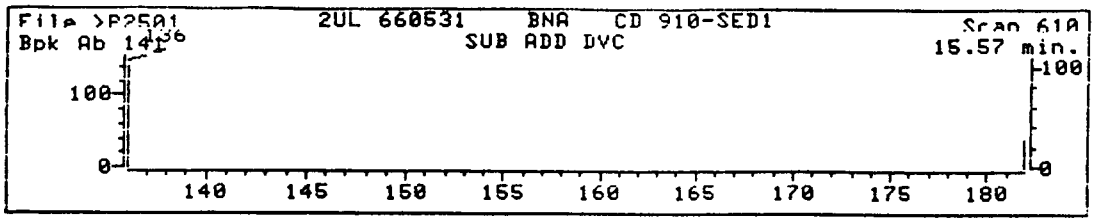
SAMPLE SPECTRUM (UNALTERED)



Data File: >P2501::D3
Name: 2UL 660531 BNA
Misc: CD 910-SED1
Quant Time: 861006 20:16
Injected at: 861006 19:31

BTL#91

Compound No: 61
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1524
Retention Time: 34.25 min.
Area: 25220
Concentration: 11.17 NG
q-value: 89



Sample file: >P2501 Spectrum #: 610

No data base entries were retrieved.

QUANTITATION FOR HSL COMPOUNDS AND TENTATIVELY IDENTIFIED COMPOUNDS

FOR SOIL/SEDIMENT SAMPLES

CD910SED1: Example quantitation HSL Compound

1,2,4-Trichlorobenzene: $\frac{(1256)(80)(10000)}{(169025)(.434)(2.0)(5.2456)\left(\frac{100-19}{100}\right)}$

$= 1590\ \mu g/kg$

$$\mu g/kg = \frac{(A_x)\ (I_s)\ (V_t)}{(A_{IS})\ (RF)\ (V_i)\ (W_s)\ (D)}$$

Example quantitation TIC

CD910SED1 Scan 610

$\frac{(54355)(80)(10000)}{(373407)(1.00)(2.0)(5.2456)\left(\frac{100}{100}\right)}$

$= 13400\ \mu g/kg$

A_x = EICP AREA OF CHARACTERISTIC ION (FROM TABLES 4–6) FOR ANALYTIC*

A_{IS} = AREA OF CHARACTERISTIC ION OF ASSIGNED IS.

I_S = NG OF IS

V_o = VOLUME OF H_2O EXTRACTED IN ML.

V_i = VOLUME OF EXTRACT INJECTED IN μL.

V_t = TOTAL VOLUME OF EXTRACT (2000 μL. WHEN NO DILUTIONS)

V_t = 1000 FOR LOW LEVEL (UNLESS GPC'd)

V_t = 2000 FOR MEDIUM LEVEL

$D = \frac{100 - \%\ MOISTURE}{100}$ (AFTER DECANTATION)

W_s = G. SAMPLE

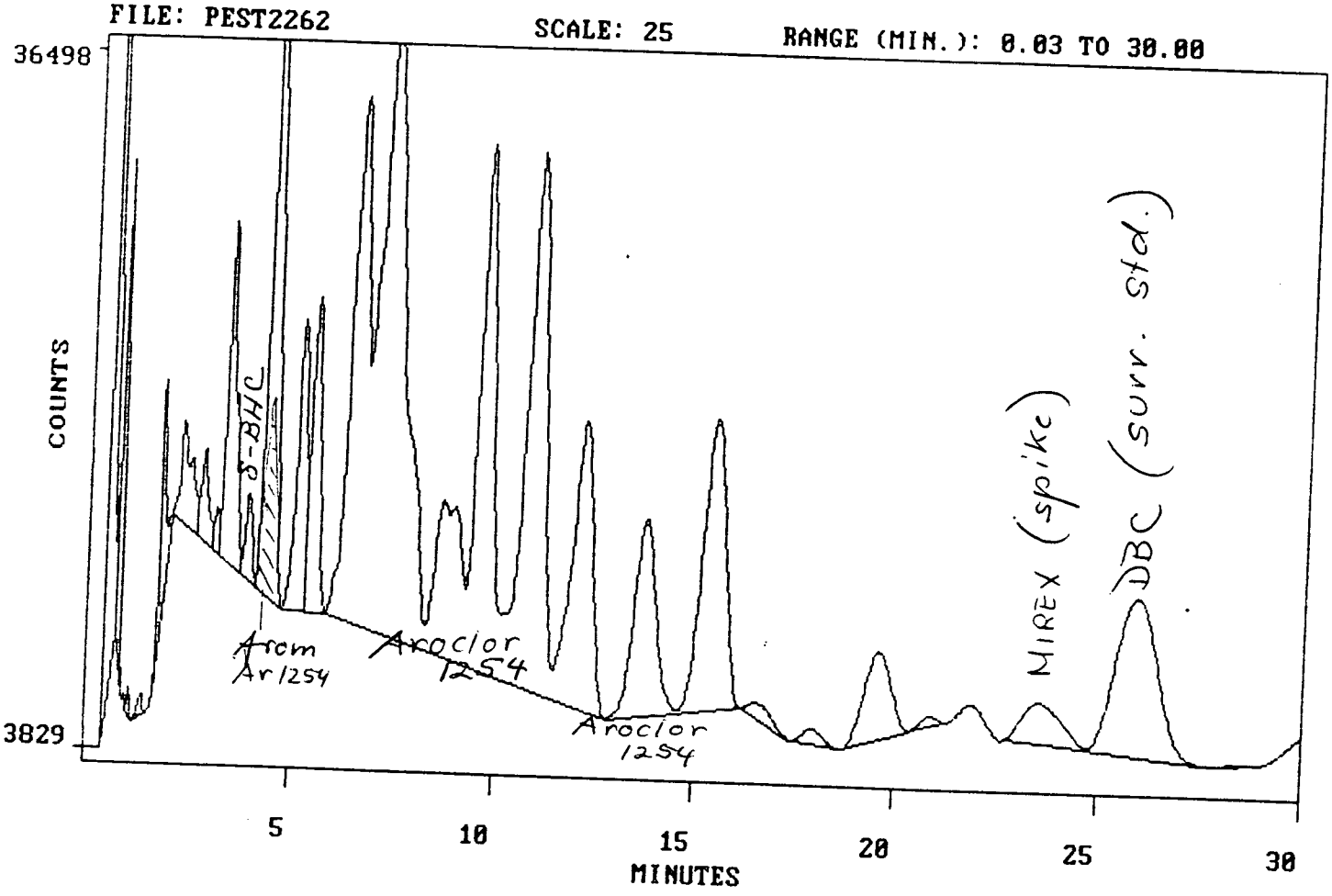
*IF SECONDARY ION MUST BE USED BECAUSE OF INTERFERENCES A RF MUST BE GENERATED USING THE SECONDARY ION.

660532
CD910-SED!
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:13:45:33 Date:MON 13 OCT 86

Time:14:04:02 Date:TUE 07 OCT 86
Method:ARO1254C



Channel #.....REINT Time:13:44:48 Date:MON 13 OCT 86

Sample name.. .....
Data file.....PEST2262
Method name.....ARO1254C

Author.....LAL
Instrument.. Tracor 550 - ECD
Column..... 1 5% SP-2250/1.95% SP-2401 on 100/120
Notes.....Reintegration of Aroclors

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....14:04:02 Acq. date....TUE 07 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..22
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.567			32.421	3715838	814819	BB
2	0.792			0.815	93374	23687	BB
3	1.100			0.044	5026	1340	BB
4	1.411			0.068	7805	1051	BB
5	1.790			0.860	98618	12028	BB
6	2.278		α-BHC	0.794	91020	4862	BV
7	2.792			0.467	53503	4385	VV
8	3.143			0.160	18391	2110	VV
9	3.380		unknown	1.990	228064	16180	VV
10	3.897		δ-BHC	0.403	46235	4060	VV
11	4.401		Aldrin	4.651	533023	35468	VB
12	5.135		AROCLOR 1254	1.902	217978	13684	BV
13	5.468			1.917	219757	14779	VB
14	7.201			37.777	4329658	30523	BB
15	15.421			7.772	890779	13630	BB
16	16.503			0.254	29092	714	BB
17	17.969			0.225	25751	748	BB
18	19.604			1.640	187969	4081	BB
19	20.905			0.114	13082	458	BB
20	23.610		MIREX	1.156	132471	1951	BV
21	26.010		DBC	4.556	522141	7332	VB
22	28.449			0.014	1653	55	BB

-10000 = 523023 = 668 pg/ul → 993 ng/g

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660532
CD910-SED1

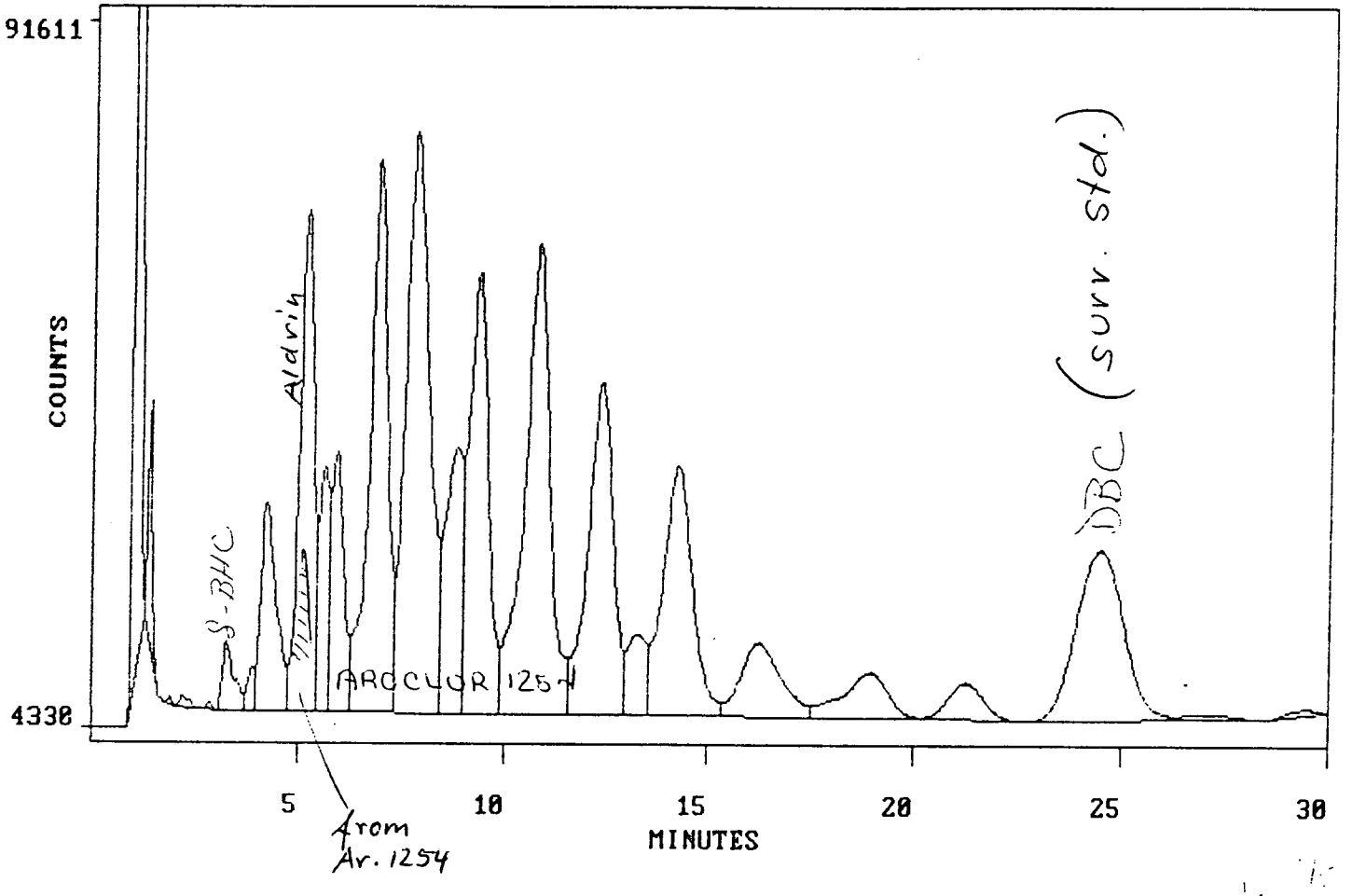
CONFIRMATORY COLUMN

Time:19:52:16 Date:THU 09 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:16:58:06 Date:THU 09 OCT 86
Method:PEST2

FILE: 1:PEST2307 SCALE: 10 RANGE (MIN.): 0.03 TO 30.00



Channel #.....4 Time:17:28:43 Date:THU 09 OCT 86
Run #2 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2307
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....~~G~~ Y-2 @ 3% SP 2100 on 100/120 SUPELCOPORT
Notes.....~~Primary~~ Column Runs
CONFIRMATORY

Run time .....30.00 min. Delay time...0.00 min.
Acq. time.....16:58:06 Acq. date....THU 09 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec

Area reject....500
peaks found..27
Vol Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	1.135			35.447	11398500	864592	BB
2	1.423			0.660	212287	30703	BB
3	1.932			0.021	6764	1020	BB
4	2.259			0.058	18701	1323	BB
5	2.879			0.023	7405	851	BB
6	3.302		@ δ-BHC	0.512	164502	8547	BV
7	3.900			0.202	64860	5546	VV
8	4.229			2.127	683997	25962	VV
9	5.170			4.584	1474076	61903	VV
10	5.613			1.552	498973	30276	VV
11	5.900		Aldrin	2.024	650988	32150	VV
12	6.895			6.590	2119183	68308	VV
13	7.805			8.984	2888977	71488	VV
14	8.827			2.901	932919	32707	VV
15	9.349			5.618	1806695	54374	VV
16	10.799			7.708	2478678	57944	VV
17	12.348			5.501	1768995	40833	VV
18	13.267			1.032	331966	10052	VV
19	14.242			4.844	1557753	30753	VV

22	21.232	0.804	258685	4444	BB
23	24.485	5.338	1716455	20999	BE
24	27.124	0.137	44144	495	EB
25	29.570	0.107	34272	586	BB
TOTALS		100.000	32156526		

DBC

III. 2. Reporting Package
NJ DEP I.D. # SED-2

H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Lab No. 660534
Type: Misc. - Tier I
Point: SED-2
Date Collected: 9/11/86
Date Received: 9/12/86
Collected By: CL 99

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Scan No.	Cas Number	Compound	ug/kg
	74-87-3	Chloromethane	10U
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl chloride	10U
	75-00-3	Chloroethane	10U
129	75-09-2	Methylene chloride	20
	75-69-4	Trichlorofluoromethane	10U
	75-35-4	1,1-dichloroethene	10U
	75-34-3	1,1-dichloroethane	10U
256	156-60-5	Cis/Trans-1,2-dichloroethene	3J
	67-66-3	Chloroform	10U
	107-06-2	1,2-dichloroethane	10U
325	71-55-6	1,1,1-Trichloroethane	32B
	56-23-5	Carbon tetrachloride	10U
	75-27-4	Bromodichloromethane	10U
	79-34-5	1,1,2,2-Tetrachloroethane	10U
	70-87-5	1,2-dichloropropane	10U
	10061-02-6	Trans-1,3-dichloropropene	10U
	79-01-6	Trichloroethene	10U
	124-48-1	Dibromochloromethane	10U
	79-00-5	1,1,2-trichloroethane	10U
	71-43-2	Benzene	10U
	10061-01-5	cis-1,3-Dichloropropene	10U
	110-75-8	2-chloroethylvinyl ether	10U
	75-25-2	Bromoform	10U
	127-10-4	Tetrachloroethene	10U
	106-88-3	Toluene	10U
	106-90-7	Chlorobenzene	10U
	100-41-4	Ethylbenzene	10U
	541-73-1	1,2-Dichlorobenzene	10U
	95-50-1	1,3-Dichlorobenzene	10U
	106-46-1	1,4-Dichlorobenzene	10U

Date Reported: 10/15/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: SED-2

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob. FIT	% Prob. RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown (Carbon Dioxide)	-		13	130B
2.	123-77-3	Diazenedicarboxamide	94	89	44	92
3.		Unknown	-		87	27
4.	67-64-1	2-Propanone	92	92	152	35
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H2M

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

Lab Name: H2M Labs
Concentration: Low

Sample Lab No. 660535 - SED-2

Date Extracted: 9/24/86
Date Analyzed: 10/6/86

Dil. Factor: 1:2

Semi-Volatile Compounds

C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan No.
65-75-9	N-Nitrosodimethylamine	20000U	83-32-9	Acenaphthene	20000U	
108-95-2	Phenol	20000U	51-28-5	2,4-Dinitrophenol	20000U	
62-53-3	Aniline	20000U	100-02-7	4-Nitrophenol	20000U	
111-44-4	bis(2-Chloroethyl)Ether	20000U	121-14-2	2,4-Dinitrotoluene	20000U	
95-57-8	2-Chlorophenol	20000U	606-20-2	2,6-Dinitrotoluene	20000U	
541-73-1	1,3-Dichlorobenzene	20000U	84-66-2	Diethylphthalate	20000U	
106-46-7	1,4-Dichlorobenzene	20000U	7005-72-3	4-Chlorophenyl-phenylether	20000U	
95-50-1	1,2-Dichlorobenzene	20000U	86-73-7	Fluorene	20000U	
39638329	bis(2-chloroisopropyl)ether	20000U	534-52-1	4,6-Dinitro-2-Methylphenol	20000U	
621-64-7	N-Nitroso-Di-n-Propylamine	20000U	86-30-6	N-Nitrososdiphenylamine (1)	20000U	
67-72-1	Hexachloroethane	20000U	101-55-3	4-Bromophenyl-phenylether	20000U	
98-95-3	Nitrobenzene	20000U	118-74-1	Hexachlorobenzene	20000U	
78-59-1	Isophorone	20000U	87-86-5	Pentachlorophenol	20000U	
88-75-5	2-Nitrophenol	20000U	85-01-8	Phenanthrene	20000U	
105-67-9	2,4-Dimethylphenol	20000U	120-12-7	Anthracene	20000U	
111-91-1	bis(2-Chloroethoxy)Methane	20000U	84-74-2	Di-n-Butylphthalate	20000U	
120-83-2	2,4-Dichlorophenol	20000U	206-44-0	Fluoranthene	20000U	
120-82-1	1,2,4-Trichlorobenzene*	3100J	92-87-5	Benzidine	60000U	
91-20-3	Naphthalene	20000U	129-00-0	Pyrene	20000U	
87-68-3	Hexachlorobutadiene	20000U	85-68-7	Butylbenzylphthalate	20000U	
59-50-7	4-Chloro-3-Methylphenol	20000U	91-94-1	3,3'-Dichlorobenzidine	20000U	
77-47-4	Hexachlorocyclopentadiene	20000U	56-55-3	Benzo(a)Anthracene	20000U	
88-06-2	2,4,6-Trichlorophenol	20000U	117-81-7	bis(2-Ethylhexyl)Phthalate	18700	1522
91-58-7	2-Chloronaphthalene	20000U	218-01-9	Chrysene	20000U	
131-11-3	Dimethyl Phthalate	20000U	117-84-0	Di-n-Octyl Phthalate	20000U	
208-96-8	Acenaphthylene	20000U	205-99-2	Benzo(b)Fluoranthene	20000U	
			207-08-9	Benzo(k)Fluoranthene	20000U	
			50-32-8	Benzo(a)Pyrene	20000U	
			193-39-5	Indeno(1,2,3-cd)Pyrene	20000U	
			53-70-3	Dibenzo(a,h)Anthracene	20000U	
			191-24-2	Benzo(g,h,i)Perylene	20000U	

* Scan No. 608

(1) Cannot be separated from diphenylamine

Date Reported: 10/16/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: SED-2

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob FIT	% Prob RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No compounds found > 10%				
2.		internal standards				
3.						
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H2M

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 660536
Date Extracted: 9/18/86
Date Analyzed: 10/7/86
Type: Mc. - Tier I
Point: SED-2
Collected By: CL 99

ANALYSIS FOR PESTICIDES/PCB's

C.A.S. No.	Compound	ug/kg
319-84-6	Alpha-BHC	240
319-87-7	Beta-BHC	70
319-86-8	Delta-BHC	8U
58-89-9	Gamma-BHC (Lindane)	8U
76-44-8	Heptachlor	60U
309-00-2	Aldrin	300U
1024-57-3	Heptachlor Epoxide	7000U
959-98-8	Endosulfan I	1500U
68-57-1	Dieldrin	7000U
72-55-9	4,4'-DDE	1500U
72-20-8	Endrin	1500U
33213-65-9	Endosulfan II	1500U
72-54-8	4,4'-DDD	1500U
1031-07-8	Endosulfan Sulfate	1500U
50-29-3	4,4'-DDT	7000U
72-43-5	Methoxychlor	80U
53494-70-5	Endrin Ketone	16U
57-74-9	Chlordane	1500U
8001-35-2	Toxaphene	1500U
12674-11-2	Aroclor 1016	200U
11104-28-2	Aroclor 1221	200U
11141-16-5	Aroclor 1232	200U
53469-21-9	Aroclor 1242	200U
12672-29-6	Aroclor 1248	200U
11097-69-1	Aroclor 1254	140000
11096-82-5	Aroclor 1260	7000U

Vi = Volume of extract injected (uL)
Ws = Weight of sample extracted (g)
Vs = Ws = 7.77 g Vt = 10 mL
Date Reported: 10/17/86

Vs = Volume of water extracted (mL)
Vt = Volume of Total extract (mL)
Vi = 5 uL

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****
S.C. McLendon, P.E.
Laboratory Director

Lab Name : H2M LABS

ORGANICS ANALYSIS DATA SHEET

Sample Number
660536

NJDEP #CD910-SED2
Run 2265

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Probability Fit	% Probability Rfit	RT or Scan Number	Dry Wt. Estimated Concentration (ug/L or ug/kg)
1.	Unknown			1.41	100
2.	Unknown			3.38	590
3.	Unknown			4.32	2900
4.	Unknown			16.45	580
5.	Unknown			17.81	390
6.	Unknown			19.38	3200
7.	Unknown			21.69	2700
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Date Reported: 10-16-86

S.C. McLendon, P.E.
Laboratory Director

H2M
Environmental Engineers & Scientists
HOLZMACHER, McLENDON and MURRELL, P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

WATER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

LAB NO. 660537
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.
65 PROSPECT ST.
TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 9/11/86 DATE RECEIVED - 9/12/86

NJDEP SAMPLE #CD 910-SED2
NJDEP SAMPLE POINT I.D. #SED2
SEDIMENT SAMPLE

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<17.2 N	SELENIUM	<1.40 N
ARSENIC	13.2	SILVER	2.00 N
BERYLLIUM	2.30	THALLIUM	<2.90 N
CADMIUM	8.60	ZINC	195. N
CHROMIUM	25.2	PHENOLS	<0.07
COPPER	75.5	CYANIDE	<7.10
LEAD	257.	TOTAL SOLIDS	70.0 %
MERCURY	<0.10 N		
NICKEL	37.8		

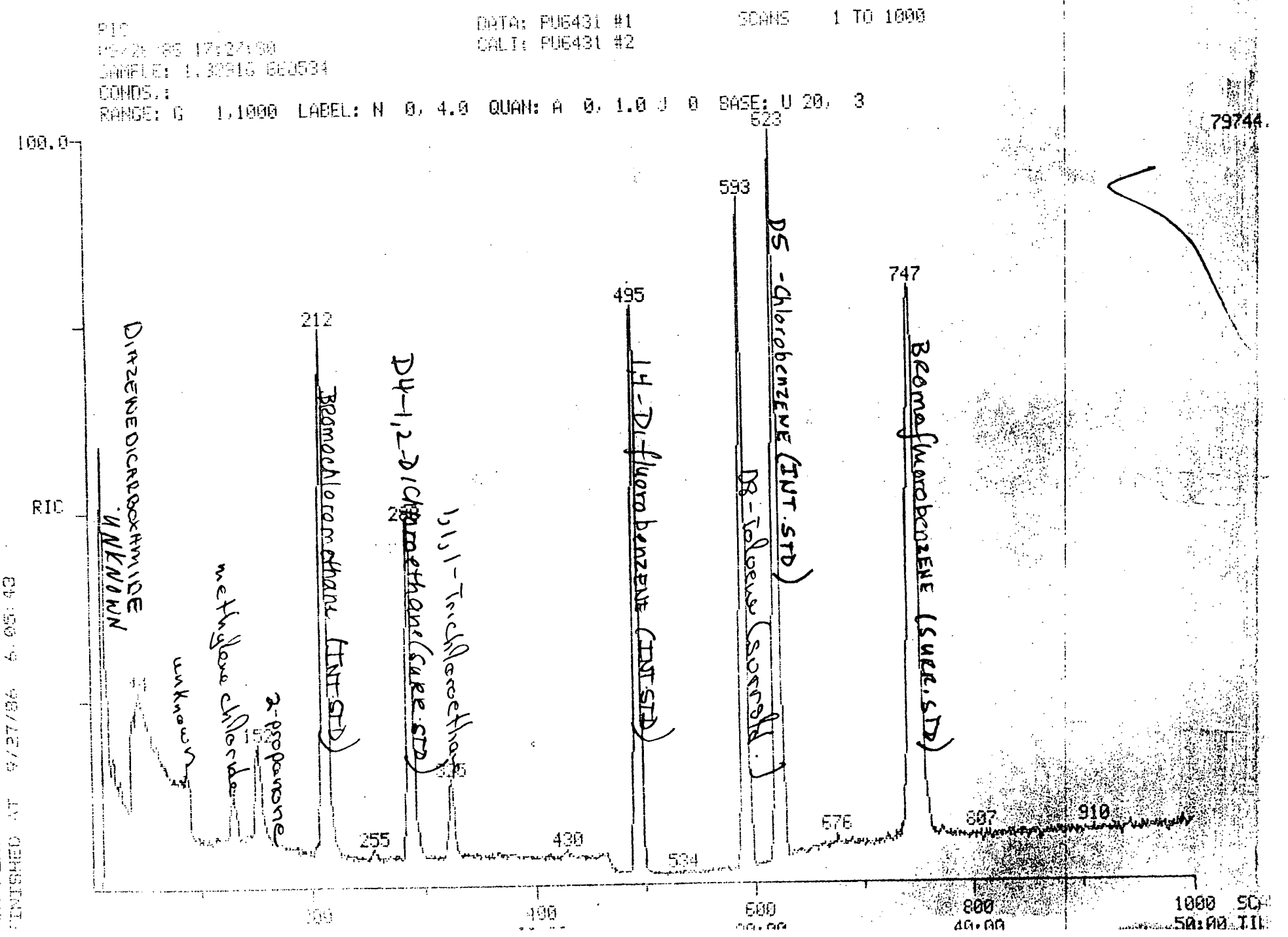
ALL RESULTS REPORTED IN mg/kg DRY WEIGHT

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 10/ 8/86

S.C. McLENDON, P.E., LABORATORY DIRECTOR

THE LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.



RIC
DATA: PU6431 #1
CALI: PU6431 #2
SCANS 1 TO 1000
SAMPLE: 1.32916 660534
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
100.0
RIC
79744.
623
593
747
495
212
255
430
534
676
807
910
DIAZENEDICARBOXAMIDE UNKNOWN
unknown
methylene chloride
2-propanone
Bromochloromethane (INT.STD)
D4-1,2-Dichloroethane (SURR.STD)
1,1,1-Trichloroethane
1,4-Difluorobenzene (INT.STD)
D8-Toluene (SURR.STD)
D5-Chlorobenzene (INT.STD)
Bromofluorobenzene (SURR.STD)
400
600
800
1000
40:00
50:00

QUANTITATION REPORT FILE: PU6431

DATA: PU6431.TI
09/26/86 17:27:00
SAMPLE: 1.3391G 660534
CONDS.
SUBMITTED BY: NJDEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,2-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MEK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D8-TOLUENE(SURR. STD)
48	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	UNITS

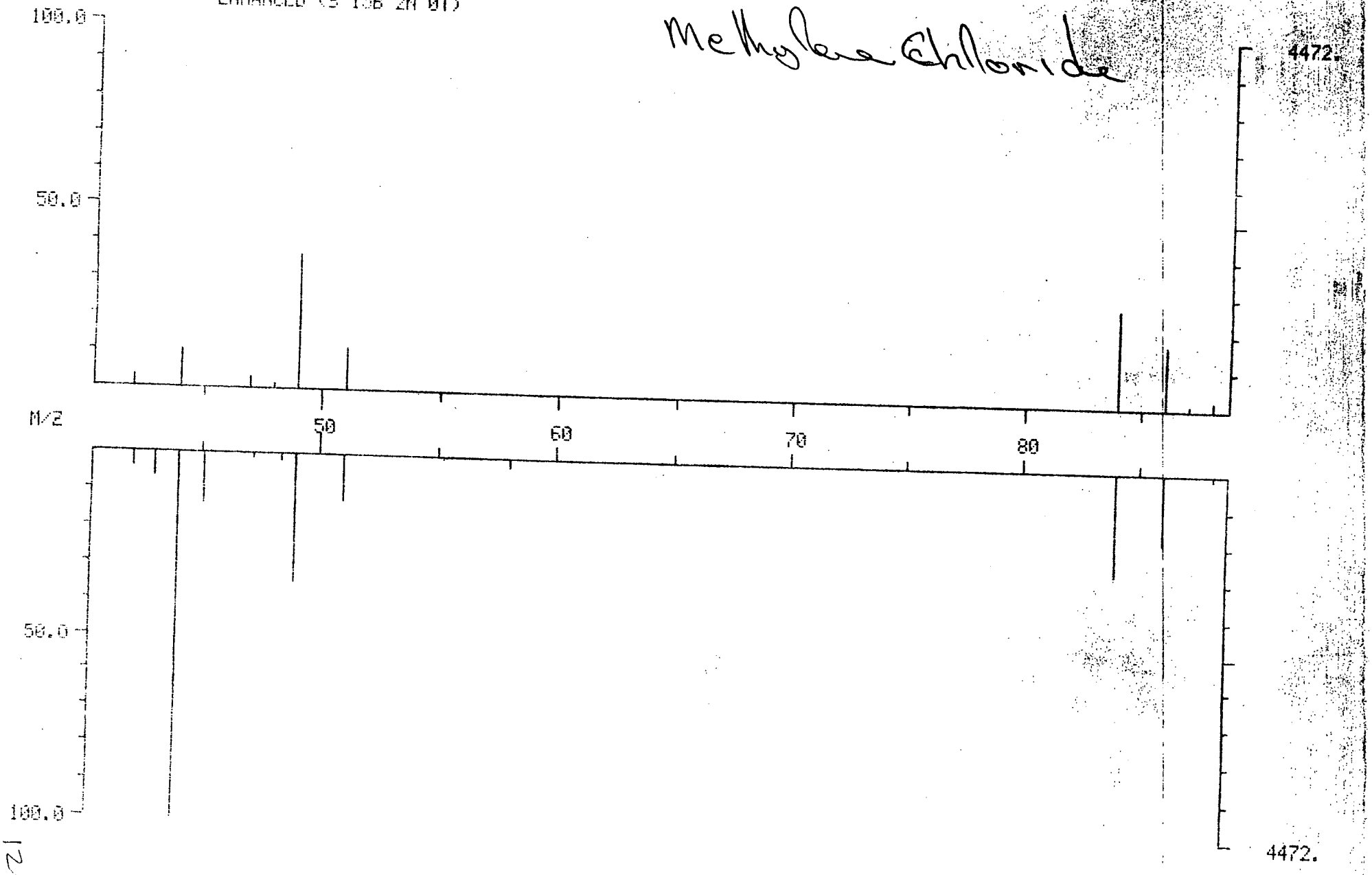
3	NOT	FOUND								
4	NOT	FOUND								
5	NOT	FOUND								
6	NOT	FOUND								
7	84	129	6:27	1	0.608	A	BB	6990.	27.304	NG	1.40
8	43	152	7:36	1	0.717	A	BB	52849.	551.313	NG	28.33
9	NOT	FOUND									
10	96	205	10:15	1	0.967	A	BB	391.	2.302	NG	0.12
11	NOT	FOUND									
12	96	256	12:48	1	1.208	A	BB	1053.	5.075	NG	0.26
13	NOT	FOUND									
14	NOT	FOUND									
15	NOT	FOUND									
16	NOT	FOUND									
17	NOT	FOUND									
18	NOT	FOUND									
19	114	495	24:45	19	1.000	A	BB	169268.	250.000	NG	12.85
20	43	296	14:48	19	0.598	A	BB	5257.	33.475	NG	1.72
21	97	325	16:15	19	0.657	A	BB	12836.	43.382	NG	2.23
22	NOT	FOUND									
23	NOT	FOUND									
24	NOT	FOUND									
25	NOT	FOUND									
26	130	412	20:36	19	0.832	A	BB	222.	0.721	NG	0.04
27	NOT	FOUND									
28	NOT	FOUND									
29	78	429	21:27	19	0.867	A	BB	1752.	1.577	NG	0.08
30	NOT	FOUND									
31	NOT	FOUND									
32	NOT	FOUND									
33	117	623	31:09	33	1.000	A	BB	144000.	250.000	NG	12.85
34	NOT	FOUND									
35	43	552	27:36	33	0.886	A	*BB	417.	15.940	NG	0.82
36	NOT	FOUND									
37	NOT	FOUND									
38	92	596	29:48	33	0.957	A	BB	399.	0.696	NG	0.04
39	NOT	FOUND									
40	NOT	FOUND									
41	NOT	FOUND									
42	NOT	FOUND									
43	NOT	FOUND									
44	NOT	FOUND									
45	NOT	FOUND									
46	NOT	FOUND									
47	100	593	29:39	33	0.952	A	BB	102728.	276.328	NG	14.20
48	95	747	37:21	33	1.199	A	BB	120290.	220.978	NG	11.36

DUAL MASS SPECTRUM
09/26/88 17:27:00 + 6:27
SAMPLE: 1.3391G 660534
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6431 #129
CALI: PU6431 #2

BASE M/Z: 49/ 44
RIC: 4991./ 10063.

Methylene Chloride

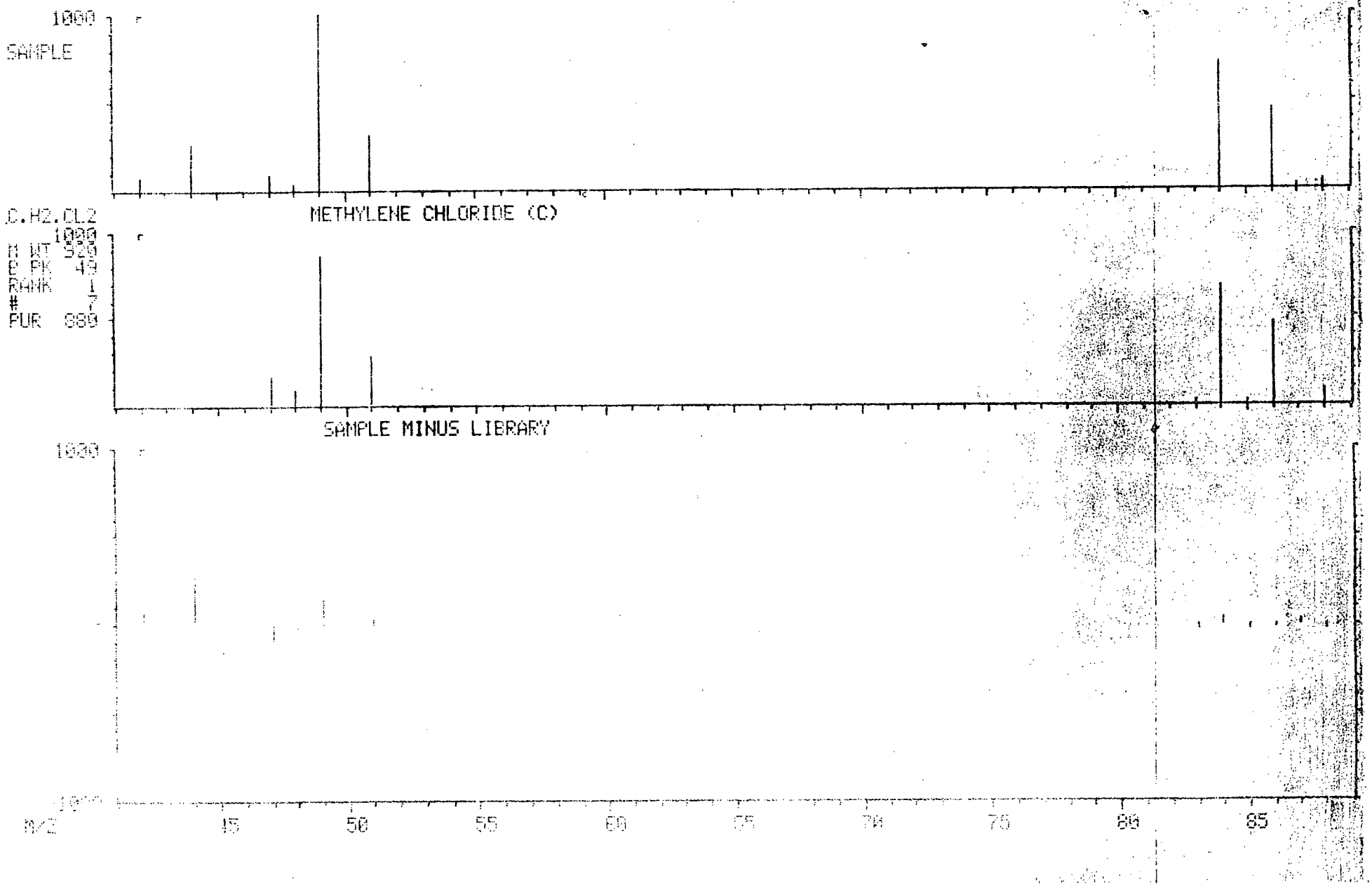


121

LIBRARY SEARCH
09/20/86 17:27:00 + 6:27
SAMPLE: 1.3391G 660534
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6431 # 129
CALI: PU6431 # 2

BASE M/Z: 49
RIC: 4991.



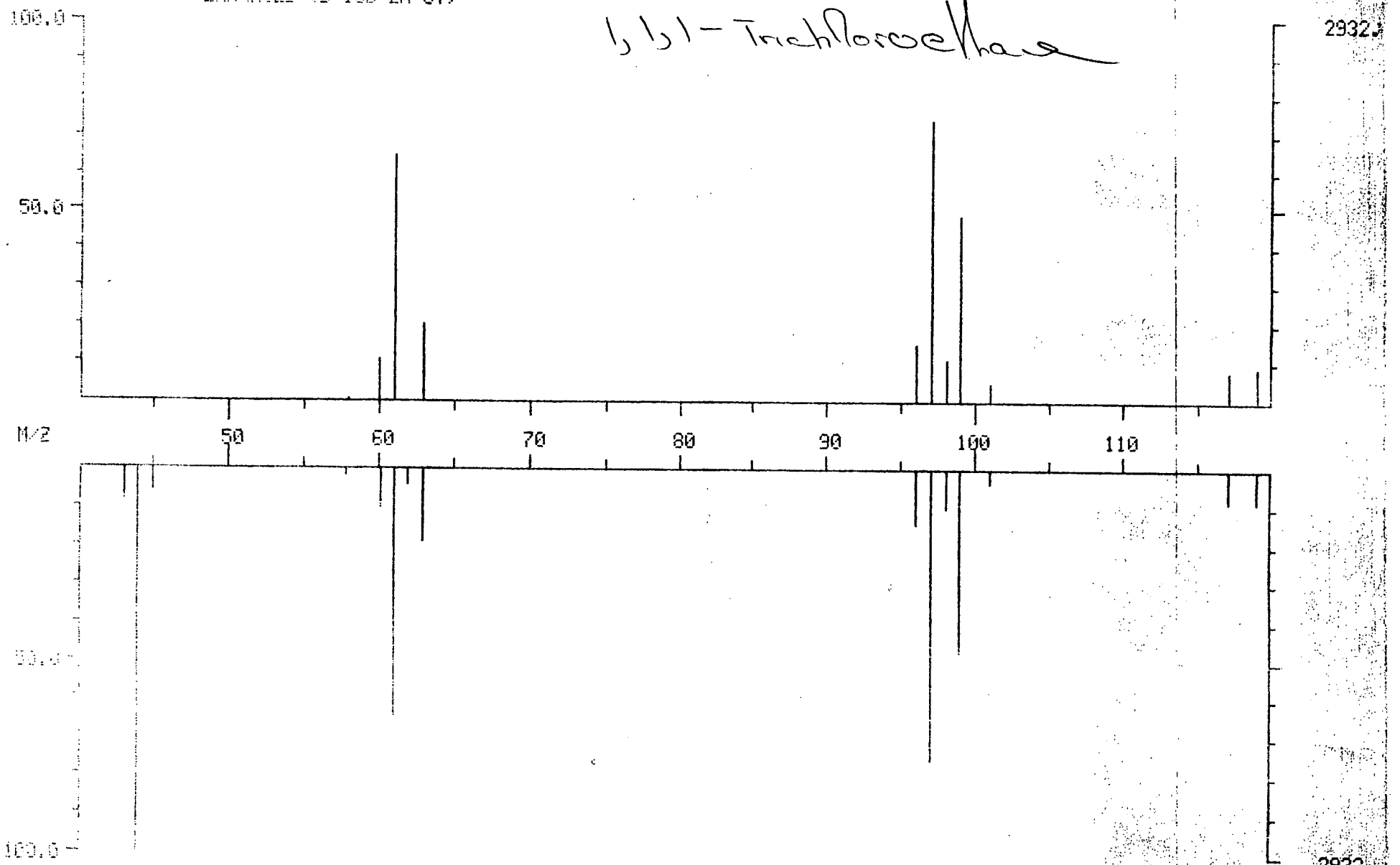
12.2

DUAL MASS SPECTRUM
09/26/86 17:27:00 + 16:15
SAMPLE: 1.3391G 860534
COMDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6431 #325
CALI: PU6431 #2

BASE M/Z: 97/ 44
RIC: 7807./ 11183.

1,1,1-Trichloroethane

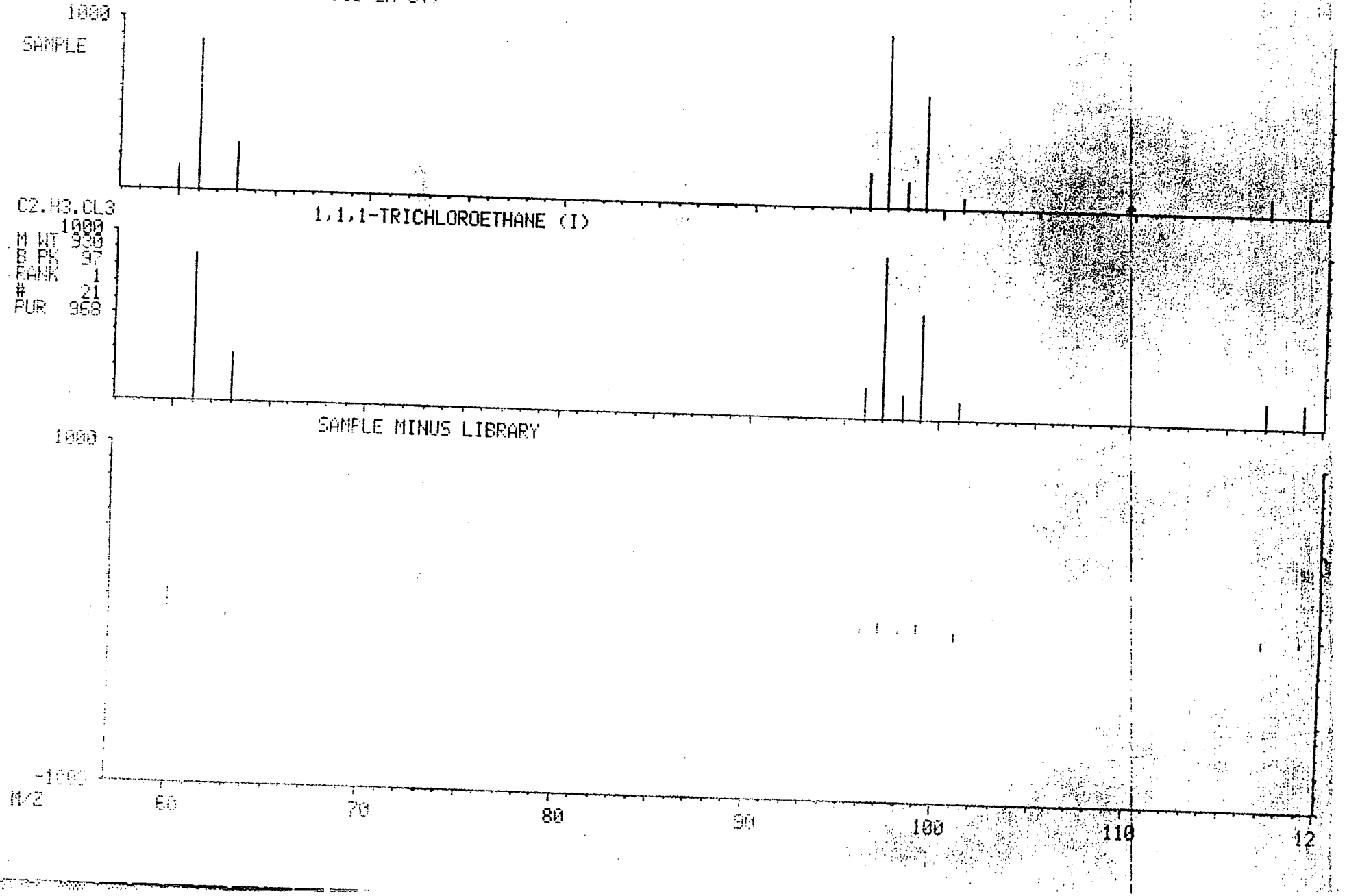


123

LIBRARY SEARCH
09/26/86 17:27:00 + 16:15
SAMPLE: 1.3391G 660534
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6431 # 325
CALI: PU6431 # 2

BASE M/Z: 97
RIC: 7807.



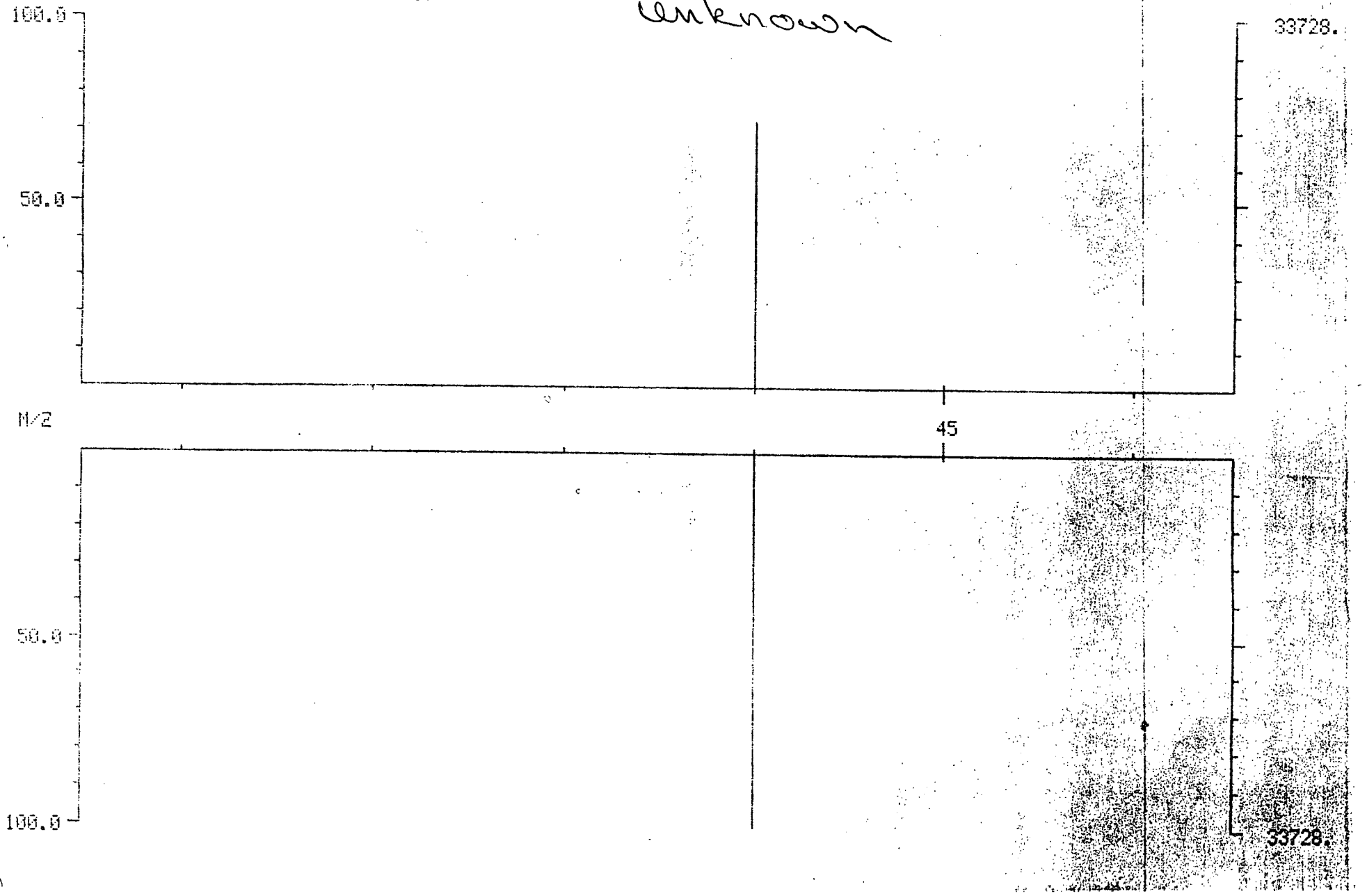
124

DUAL MASS SPECTRUM
09/26/86 17:27:00 + 0:36
SAMPLE: 1.3391G 650534
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6431 #12
CALI: PU6431 #2

BASE M/Z: 44/ 44
PIC: 24703./ 34111.

unknown

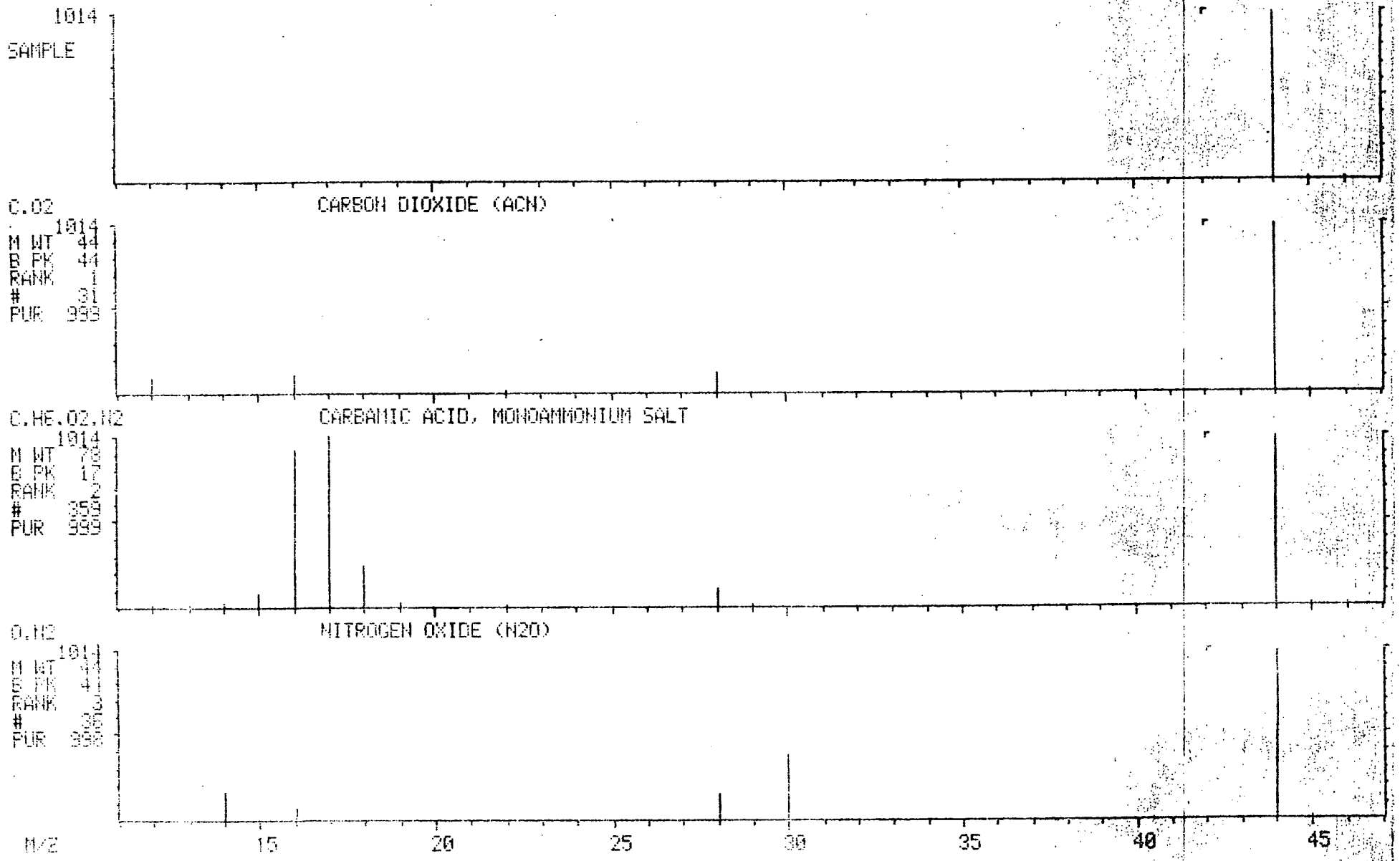


125

LIBRARY SEARCH
09/26/86 17:27:00 + 0:36
SAMPLE: 1.3391G 680534
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6431 # 12
CALI: PU6431 # 2

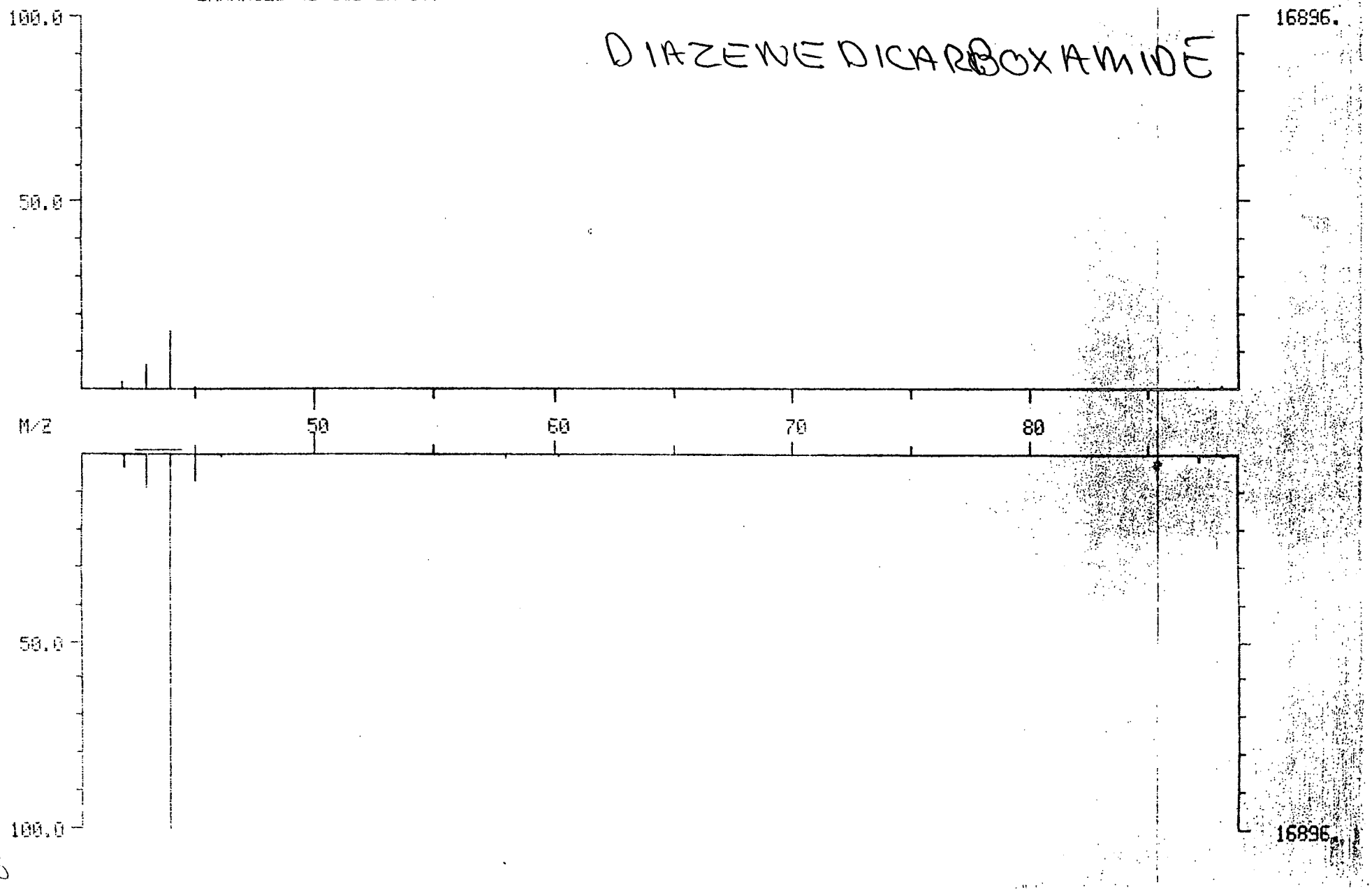
BASE M/Z: 44
RIC: 24735.



DUAL MASS SPECTRUM
09/25/86 17:27:00 + 2:12
SAMPLE: 1.3391G 660534
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6431 #44
CALI: PU6431 #2

BASE M/Z: 44/ 44
RIC: 4303./ 20895.

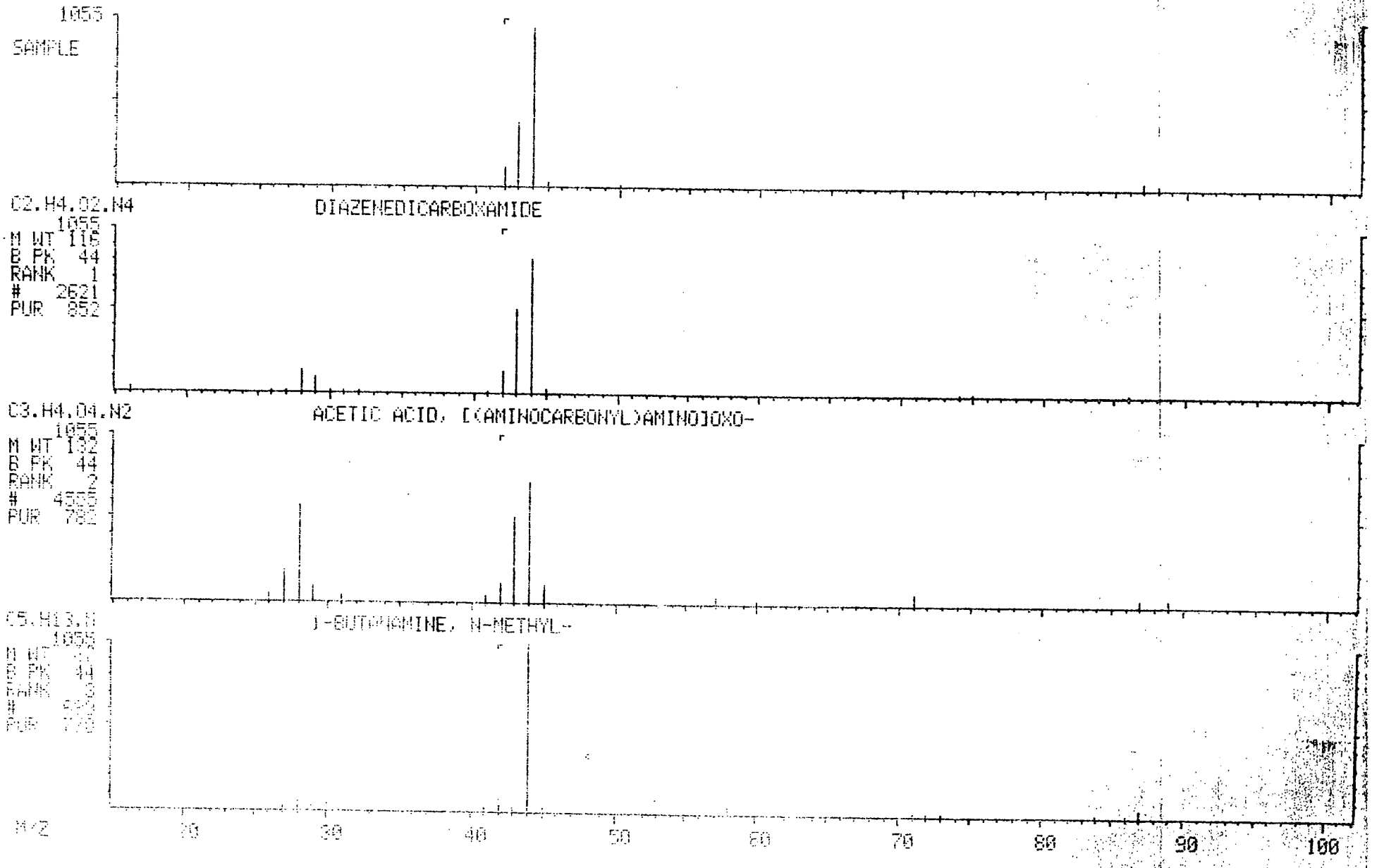


124

LIBRARY SEARCH
09/26/86 17:27:09 + 2:12
SAMPLE: 1.33010 650534
CONDS.:
ENHANCED (S 150 2N 0T)

DATA: PU6431 # 44
CALI: PU6431 # 2

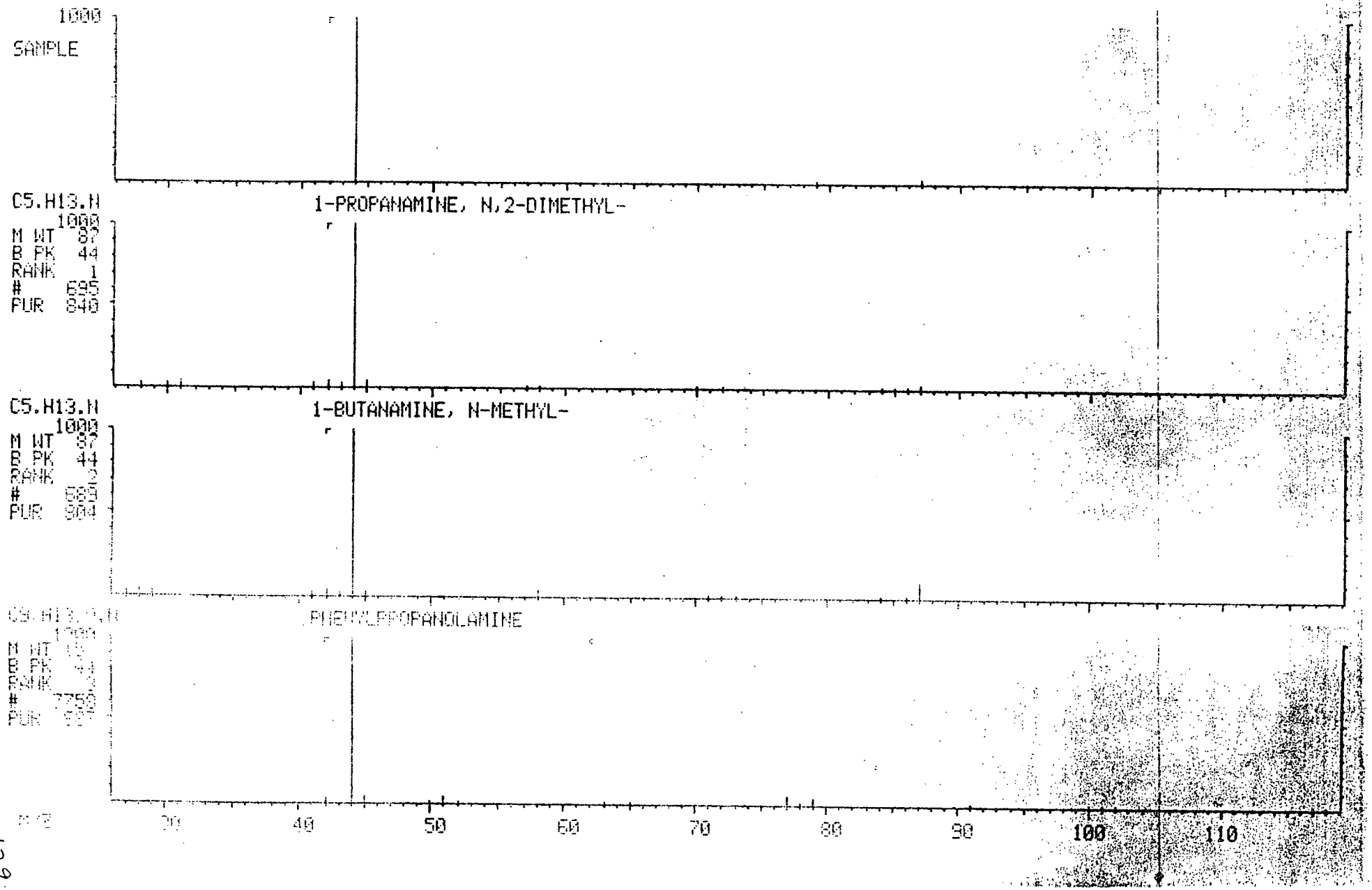
BASE M/Z: 44
RIC: 4303.



LIBRARY SEARCH
03/28/85 17:27:00 + 4:21
SAMPLE: 1,3391G 660534
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6431 # 97
CALI: PU6431 # 2

BASE M/Z: 44
RIC: 3335.



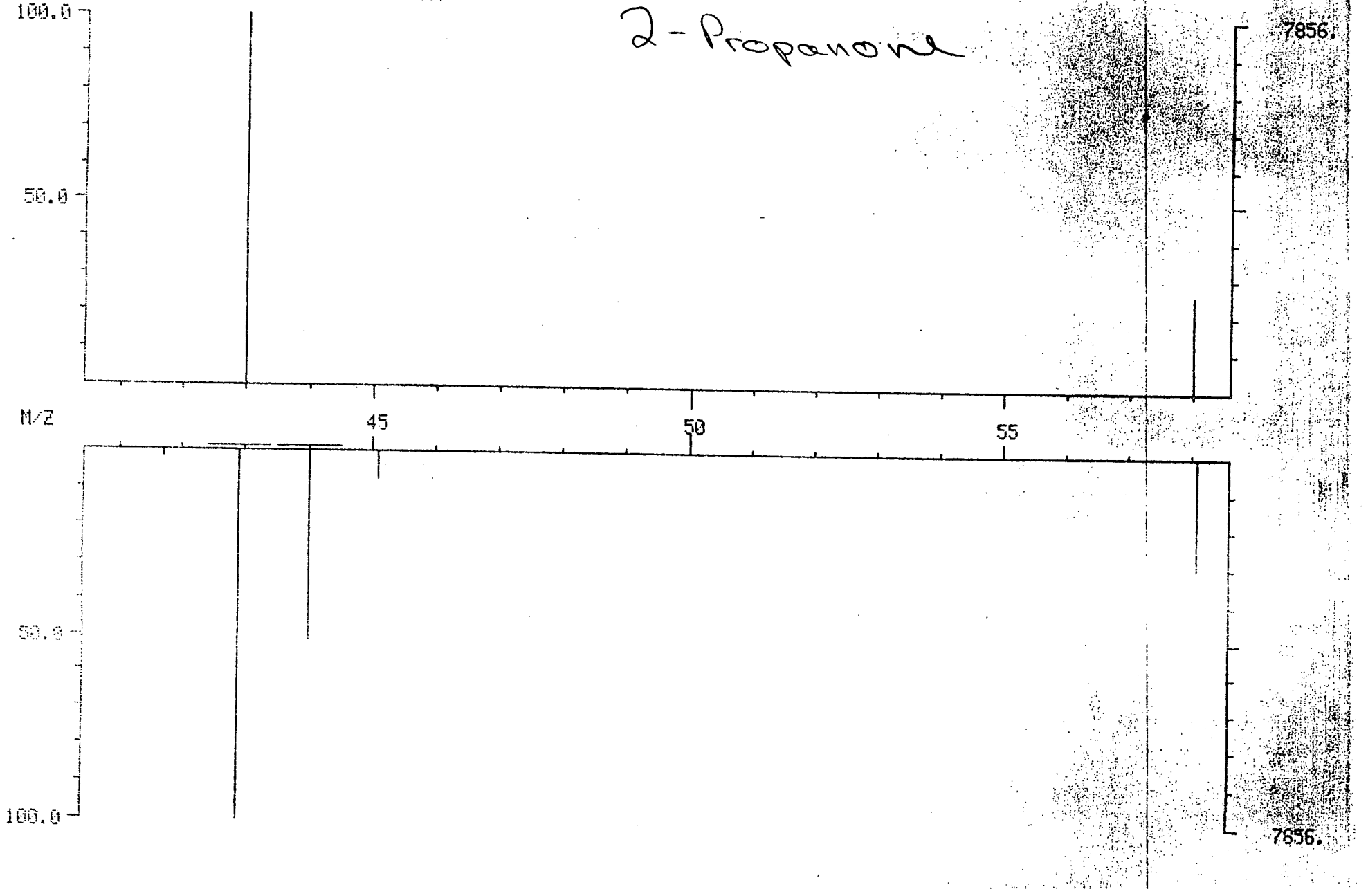
129

DUAL MASS SPECTRUM
09/26/86 17:27:00 + 7:36
SAMPLE: 1.3391G 660534
CONDS.:
ENHANCED (S 150 2N 0T)

DATA: PU6431 #152
CALI: PU6431 #2

BASE M/Z: 43/ 43
RIC: 9919./ 15007.

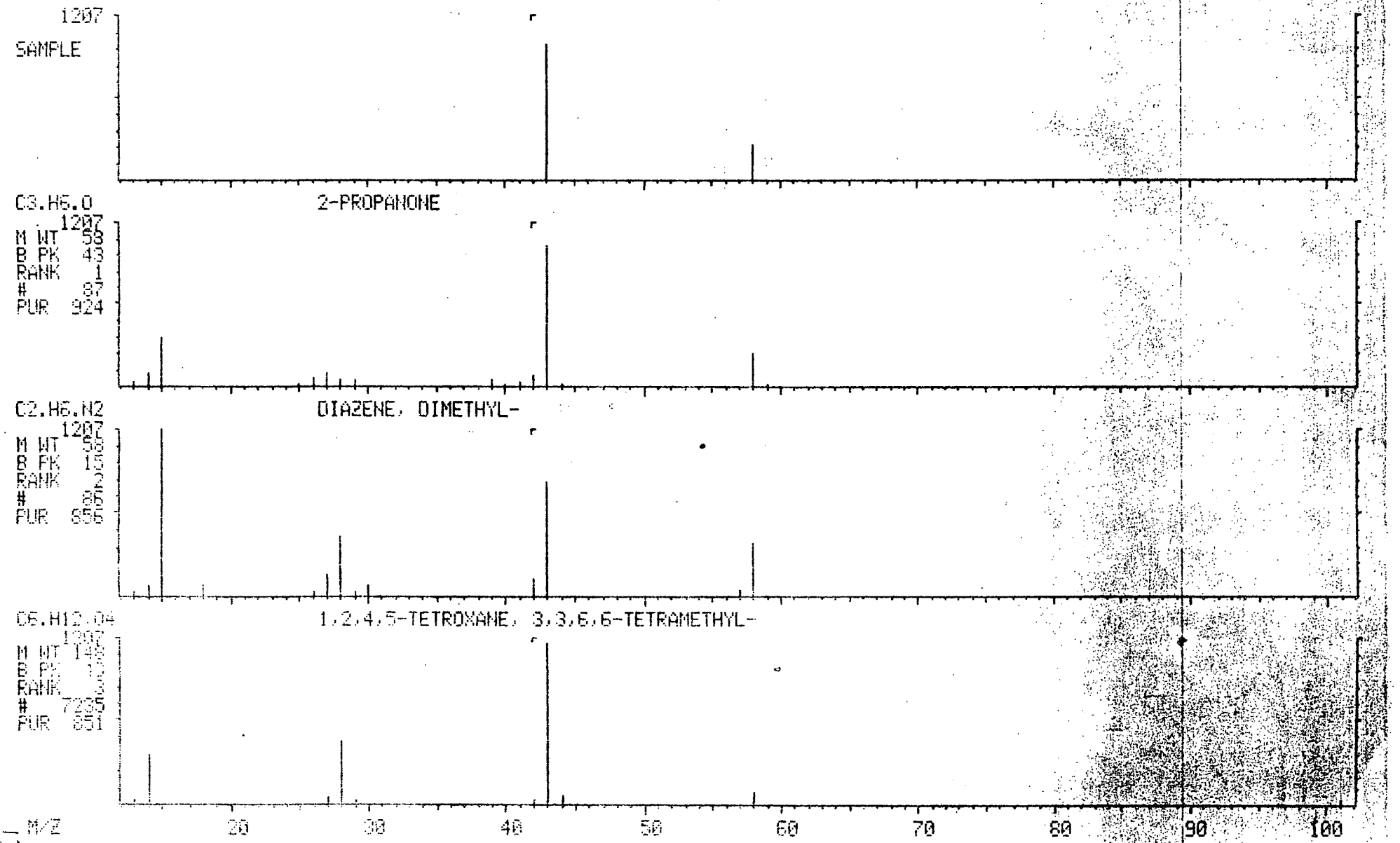
2-Propanone



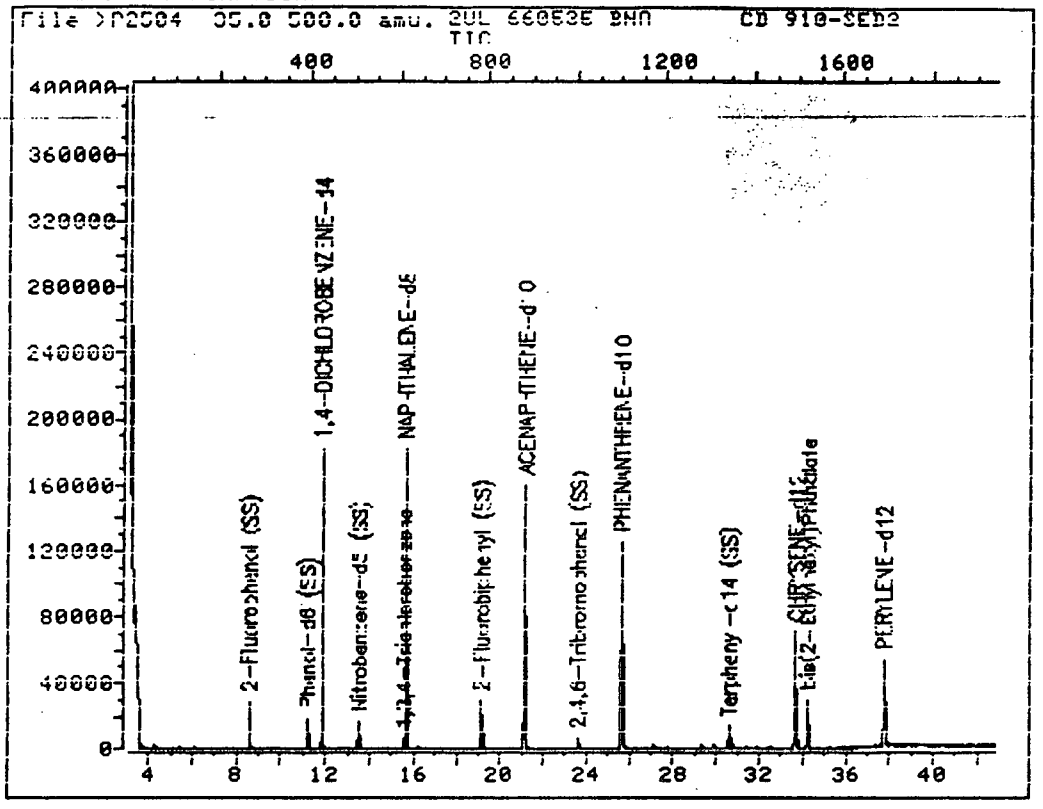
LIBRARY SEARCH
09/26/86 17:27:00 + 7:36
SAMPLE: 1.3391G 660534
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6431 # 152
CALI: PU6431 # 2

BASE M/Z: 43
RIC: 9919.



TOTAL ION CHROMATOGRAM



Data File: >P2504::D3
Name: 2UL 660535 BNA
Misc: CD 910-SED2

BTL#94

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861006 19:44

Operator ID: STEVE
Quant Time: 861006 22:51
Injected at: 861006 22:06

QUANT REPORT

Operator ID: STEVE
Output File: ^P2504::OP
Data File: >P2504::D3
Name: 2UL 660535 BNA
Misc: CD 910-SED2

Quant Rev: 4
Quant Time: 861006 22:51
Injected at: 861006 22:06
Dilution Factor: 1.00

BTL#94

ID File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861006 19:44

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.82	427	62724	40.00	NG	89
3)	2-Fluorophenol (SS)	8.54	267	17176	9.79	NG	75
7)	Phenol-d6 (SS)	11.18	396	16888	8.69	NG	69
15)	*NAPHTHALENE-d8	15.60	612	204235	40.00	NG	47
16)	Nitrobenzene-d5 (SS)	13.49	509	10875	5.76	NG	81
23)	1,2,4-Trichlorobenzene	15.52	608	3197	1.44	NG	89
27)	*ACENAPHTHENE-d10	21.12	882	82605	40.00	NG	94
31)	2-Fluorobiphenyl (SS)	19.11	784	26677	8.05	NG	98
42)	2,4,6-Tribromophenol (SS)	23.57	1002	5012	6.78	NG	82
43)	*PHENANTHRENE-d10	25.59	1101	129965	40.00	NG	52
54)	*CHRYSENE-d12	33.65	1495	92163	40.00	NG	44
55)	Terphenyl-d14 (SS)	30.58	1345	14590	9.88	NG	37
61)	bis(2-Ethylhexyl)Phthalate	34.20	1522	21309	8.63	NG	86
63)	*PERYLENE-d12	37.72	1694	76665	40.00	NG	80

* Compound is ISTD

MS data file header from : >P2504

Sample: 2UL 660535 BNA Operator: STEVE MS 10/06/86 22:06
Misc : CD 910-SED2 BTL#94
Sys. #: 1 MS model: 96 SW/HW rev.: CA ALS # : 0
Method file: EXTRII Tuning file: MT9301 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 220 Transfer line temp. : 280

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

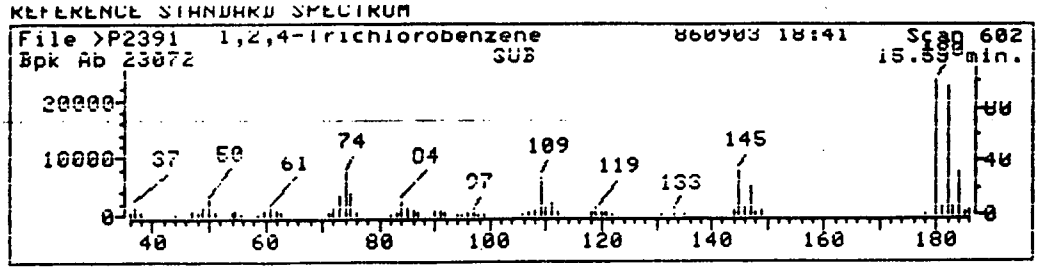
>P2504 2UL 660535 BNA CD 910-SED2
35.01 500.0 CLP ADC TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	15.597	605	612	615	180892	1052313	1052313	100.00	57.97
2	25.595	1097	1101	1104	124793	348715	348715	33.14	19.21
3	33.651	1491	1495	1505	70052	229251	221203	21.02	12.18
4	37.721	1690	1694	1701	51899	220245	193037	18.34	10.63

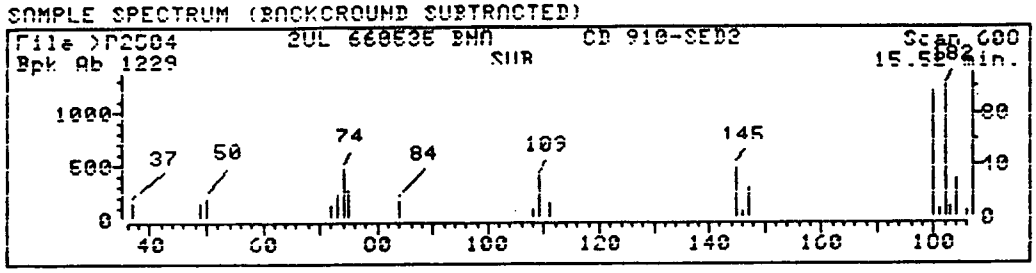
Sum of corrected areas: 1815268.

3:09 PM TUE., 7 OCT., 1986

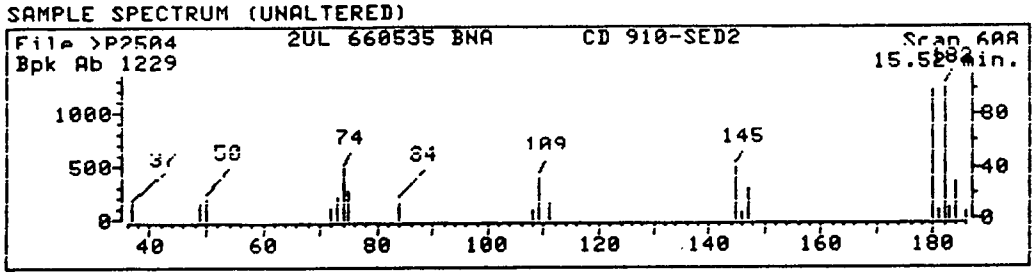
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

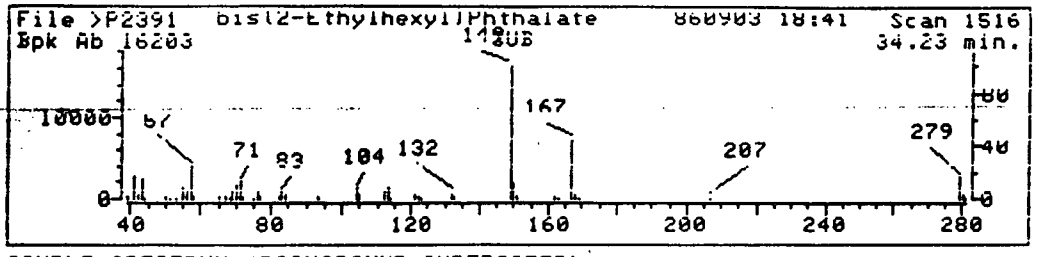


Data File: >P2504::D3
Name: 2UL 660535 BNA
Misc: CD 910-SED2
Quant Time: 861006 22:51
Injected at: 861006 22:06

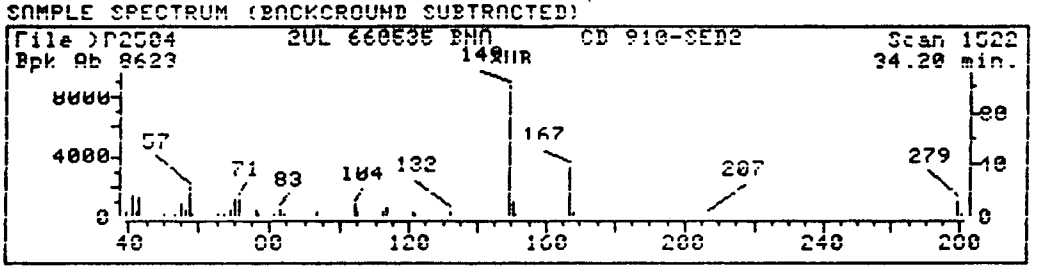
BTL#94

Compound No: 23
Compound Name: 1,2,4-Trichlorobenzene
Scan Number: 608
Retention Time: 15.52 min.
Area: 3197
Concentration: 1.44 NG
q-value: 89

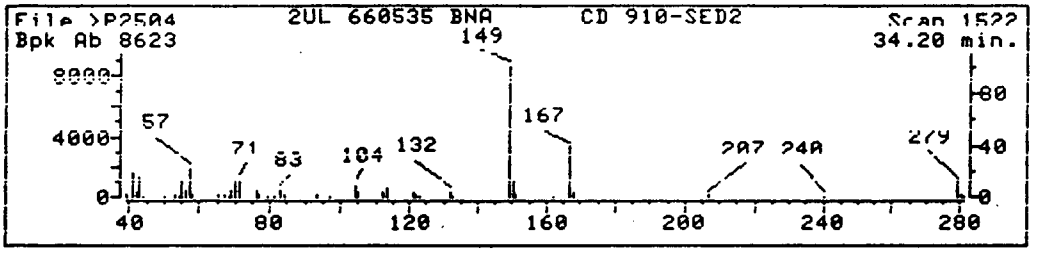
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >P2504::D3
Name: 2UL 660535 BNA
Misc: CD 910-SED2
Quant Time: 861006 22:51
Injected at: 861006 22:06

BTL#94

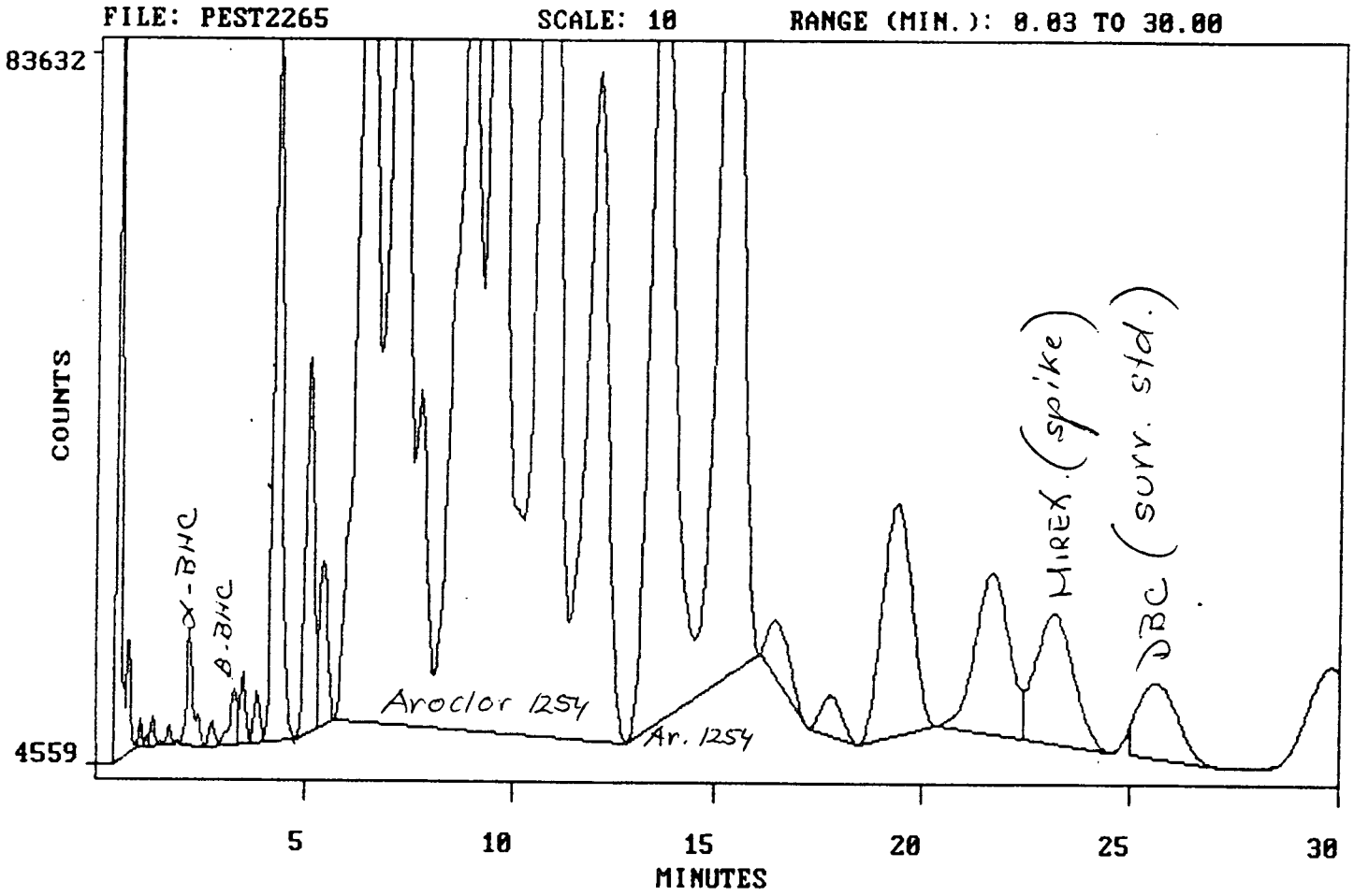
Compound No: 61
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1522
Retention Time: 34.20 min.
Area: 21309
Concentration: 8.63 NG
q-value: 86

660536
CD910-SED2
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Date Acquisition

Time:13:55:46 Date:MON 13 OCT 86

Time:15:47:56 Date TUE 07 OCT 86
Method:ARO1254C



Channel # ....REINT Time:13:54:33 Date:MON 13 OCT 86

Sample name.....
Data file..... PEST2265
Method name.....ARO1254C

Author.....LAL
Instrument.....Tracor 550 - ECD
Column.....1.5% SP-2250/1.95% SP-2401 on 100/120 CHROMOSORB WHP
Notes.....Reintegration of Aroclors

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....15:47:56 Acq. date....TUE 07 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens....0.75 uv/sec.

Area reject... 500
peaks found..21
Vol. Inj..... 5.0 ul Sample amount .1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

RF 100 → est. conc µg/kg

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL	
1	0.568			8.659	3721267	790636	BB	
2	1.105			0.038	16285	2985	BV	
3	1.279			0.016	6804	1172	VV	
4	1.407			0.092	39628	3292	VB	
5	2.267		α-BHC	0.328	141031	12632	BB	
6	2.794			0.063	27191	2780	BV	
7	3.335		β-BHC	0.176	75454	6079	VV	
8	3.538			0.154	66027	7766	VB	
9	3.867			0.128	54860	5510	BV	
10	4.320		Unknown	2.672	1148092	85609	VB	2900
11	5.090			1.367	587445	41768	BV	
12	5.438		AROCLOR 1254	0.553	237561	18198	VB	
13	9.586		120599	57.202	24581566	171793	BB	
14	15.316			18.992	8161394	109923	BB	
15	16.448			0.528	226899	6119	BB	
16	17.809			0.350	150458	4347	BB	
17	19.388			2.921	1255373	25675	BB	
18	21.697			2.400	1031168	17843	BV	
19	22.130			2.093	899612	14311	VB	
20	25.717			1.269	545224	8178	BB	
TOTALS				100.000	42973339			

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CONFIRMATORY COLUMN

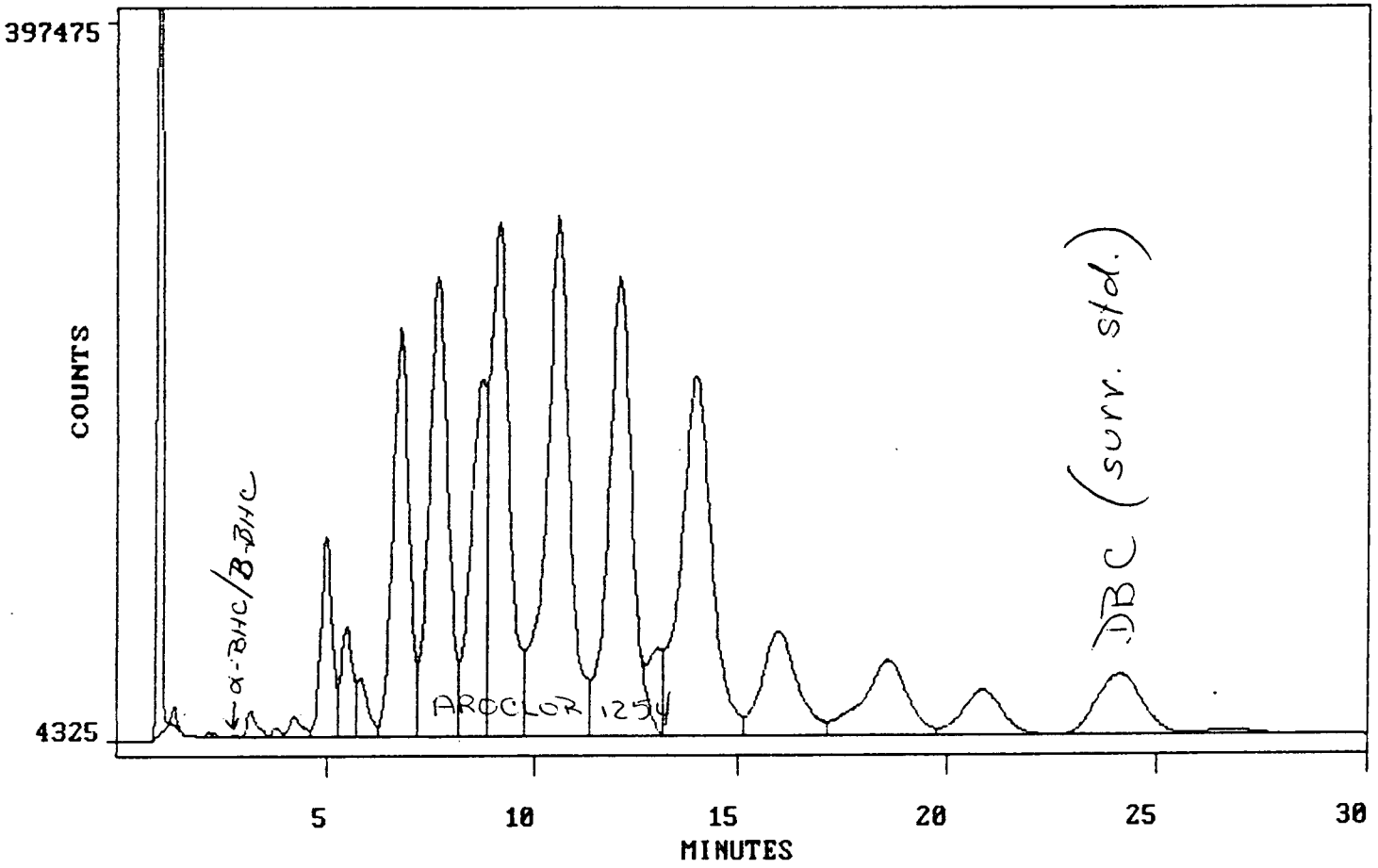
660536
CD910 - SED2

Time: 19:49:00 Date: THU 09 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 18:22:31 Date: THU 09 OCT 86
Method PEST2

FILE: 1:PEST2308 SCALE: 2 RANGE (MIN.): 0.03 TO 30.00



Channel #.....4 Time:18:53:16 Date:THU 09 OCT 86
Run #3 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2308
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....~~I~~ Y-2 3% SP-2100 on 100/120 SUPELCOPORT
Notes.....~~Primary~~ Column Runs
CONFIRMATORY

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....18:22:31 Acq. date....THU 09 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..27
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor.. 1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.277			0.001	908	44	BB
2	1.046			8.247	6899428	793436	BB
3	1.411			0.098	81889	11232	BB
4	2.214			0.035	29547	3145	BV
5	2.353			0.022	18508	2516	VV
6	2.619			0.005	4217	540	VV
7	2.832		β-BHC / α-BHC	0.020	16723	1900	VB
8	3.214			0.296	247821	14837	BV
9	3.815			0.093	77669	5531	VV
10	4.238			0.296	247745	11425	VV
11	4.978			2.471	2067540	110251	VV
12	5.463			1.379	1153639	60608	VV
13	5.778			0.677	565996	32097	VV
14	6.739			7.231	6049624	223154	VV
15	7.675			9.985	8354293	251603	VV
16	8.746			6.143	5139720	195539	VV
17	9.164			10.661	8919334	280796	VV
18	10.604			13.480	11278190	284634	VV
19	12.101			12.060	10090147	252185	VE
20	13.041			1.195	999464	44581	EV

22	15.954		4.127	3453168	57314	VV
23	18.595		3.748	3135765	41235	VV
24	20.850		1.988	1663090	24855	VV
25	24.134		3.109	2600719	33189	VE
26	26.861	DBC	0.236	197432	2405	EB
27	29.215		0.040	33420	627	BB
TOTALS			100.000	83664520		

III. 2. Reporting Package
NJ DEP I.D. # S-1

H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Lab No. 660538
Type: Misc. - Tier I
Point: Soil #1
Date Collected: 9/11/86
Date Received: 9/12/86
Collected By: CL 99

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Scan No.	Cas Number	Compound	ug/kg
41	74-87-3	Chloromethane	6J
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl chloride	10U
	75-00-3	Chloroethane	10U
122	75-09-2	Methylene chloride	110
	75-69-4	Trichlorofluoromethane	10U
197	75-35-4	1,1-dichloroethene	88
	75-34-3	1,1-dichloroethane	10U
	156-60-5	Cis/Trans-1,2-dichloroethene	10U
	67-66-3	Chloroform	10U
	107-06-2	1,2-dichloroethane	10U
321	71-55-6	1,1,1-Trichloroethane	110B
	56-23-5	Carbon tetrachloride	10U
	75-27-4	Bromodichloromethane	10U
	79-34-5	1,1,2,2-Tetrachloroethane	10U
	70-87-5	1,2-dichloropropane	10U
	10061-02-6	Trans-1,3-dichloropropene	10U
409	79-01-6	Trichloroethene	35
	124-48-1	Dibromochloromethane	10U
	79-00-5	1,1,2-trichloroethane	10U
426	71-43-2	Benzene	2J
	10061-01-5	cis-1,3-Dichloropropene	10U
	110-75-8	2-chloroethylvinyl ether	10U
	75-25-2	Bromoform	10U
	127-10-4	Tetrachloroethene	10U
	106-88-3	Toluene	10U
	106-90-7	Chlorobenzene	10U
	100-41-4	Ethylbenzene	10U
	541-73-1	1,2-Dichlorobenzene	10U
	95-50-1	1,3-Dichlorobenzene	10U
	106-46-1	1,4-Dichlorobenzene	10U

Date Reported: 10/15/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample # Soil #1

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob. FIT	% Prob. RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown (Carbon Dioxide)	-	-	12	830B
2.		Unknown	-	-	143	33
3.		Unknown	-	-	153	77
4.						
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29.						
30.						

JMA

H2M

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

Lab Name: H2M Labs — Sample Lab No. 660539 - S-1

Concentration: Low

Date Extracted: 9/24/86

Date Analyzed: 10/6/86 — Dil. Factor: 1:2

Semi-Volatile Compounds

C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan No.
65-75-9	N-Nitrosodimethylamine	20000U	83-32-9	Acenaphthene	300J	887
108-95-2	Phenol	20000U	51-28-5	2,4-Dinitrophenol	20000U	
62-53-3	Aniline	20000U	100-02-7	4-Nitrophenol	20000U	
111-44-4	bis(2-Chloroethyl)Ether	20000U	121-14-2	2,4-Dinitrotoluene	20000U	
95-57-8	2-Chlorophenol	20000U	606-20-2	2,6-Dinitrotoluene	20000U	
541-73-1	1,3-Dichlorobenzene	20000U	84-66-2	Diethylphthalate	900000	971
106-46-7	1,4-Dichlorobenzene	20000U	7005-72-3	4-Chlorophenyl-phenylether	20000U	
95-50-1	1,2-Dichlorobenzene	20000U	86-73-7	Fluorene	20000U	
39638329	bis(2-chloroisopropyl)ether	20000U	534-52-1	4,6-Dinitro-2-Methylphenol	20000U	
621-64-7	N-Nitroso-Di-n-Propylamine	20000U	86-30-6	N-Nitrososdiphenylamine (1)	20000U	
67-72-1	Hexachloroethane	20000U	101-55-3	4-Bromophenyl-phenylether	20000U	
98-95-3	Nitrobenzene	20000U	118-74-1	Hexachlorobenzene	20000U	
78-59-1	Isophorone	20000U	87-86-5	Pentachlorophenol	20000U	
88-75-5	2-Nitrophenol	20000U	85-01-8	Phenanthrene	2800J	1103
105-67-9	2,4-Dimethylphenol	20000U	120-12-7	Anthracene	700J	1109
111-91-1	bis(2-Chloroethoxy)Methane	20000U	84-74-2	Di-n-Butylphthalate	20000U	
120-83-2	2,4-Dichlorophenol	20000U	206-44-0	Fluoranthene	4600J	1281
120-82-1	1,2,4-Trichlorobenzene	20000U	92-87-5	Benzidine	60000U	
91-20-3	Naphthalene	20000U	129-00-0	Pyrene	3400J	1313
87-68-3	Hexachlorobutadiene	20000U	85-68-7	Butylbenzylphthalate	20000U	
59-50-7	4-Chloro-3-Methylphenol	20000U	91-94-1	3,3'-Dichlorobenzidine	20000U	
77-47-4	Hexachlorocyclopentadiene	20000U	56-55-3	Benzo(a)Anthracene	1800J	1495
88-06-2	2,4,6-Trichlorophenol	20000U	117-81-7	bis(2-Ethylhexyl)Phthalate	5100J	1525
91-58-7	2-Chloronaphthalene	20000U	218-01-9	Chrysene	1800J	1500
131-11-3	Dimethyl Phthalate	20000U	117-84-0	Di-n-Octyl Phthalate	20000U	
208-96-8	Acenaphthylene	20000U	205-99-2	Benzo(b)Fluoranthene	20000U	
			207-08-9	Benzo(k)Fluoranthene	20000U	
			50-32-8	Benzo(a)Pyrene	20000U	
			193-39-5	Indeno(1,2,3-cd)Pyrene	20000U	
			53-70-3	Dibenzo(a,h)Anthracene	20000U	
			191-24-2	Benzo(g,h,i)Perylene	20000U	

(1) Cannot be separated from diphenylamine

Date Reported: 10/16/86

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* *
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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: S-1

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob FIT|RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Polychlorinated Biphenyl	88	1342	60000J
2.		Polychlorinated Biphenyl	96	1355	66000J
3.		Polychlorinated Biphenyl	99	1385	83000J
4.		Polychlorinated Biphenyl	99	1443	61000J
5.					
6.					
7.					
8.					
9.					
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28.					
29.					
30.					

H2M

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 660540
Date Extracted: 9/18/86
Date Analyzed: 10/7/86
Type: Misc. - Tier I
Point: S-1
Collected By: CL 99

ANALYSIS FOR PESTICIDES/PCB's

C.A.S. No.	Compound	ug/kg
319-84-6	Alpha-BHC	8U
319-87-7	Beta-BHC	50
319-86-8	Delta-BHC	8U
58-89-9	Gamma-BHC (Lindane)	39
76-44-8	Heptachlor	8U
309-00-2	Aldrin	100U
1024-57-3	Heptachlor Epoxide	3000U
959-98-8	Endosulfan I	700U
68-57-1	Dieldrin	3000U
72-55-9	4,4'-DDE	700U
72-20-8	Endrin	700U
33213-65-9	Endosulfan II	700U
72-54-8	4,4'-DDD	700U
1031-07-8	Endosulfan Sulfate	700U
50-29-3	4,4'-DDT	3000U
72-43-5	Methoxychlor	80U
53494-70-5	Endrin Ketone	16U
57-74-9	Chlordane	700U
8001-35-2	Toxaphene	700U
12674-11-2	Aroclor 1016	80U
11104-28-2	Aroclor 1221	80U
11141-16-5	Aroclor 1232	80U
53469-21-9	Aroclor 1242	80U
12672-29-6	Aroclor 1248	80U
11097-69-1	Aroclor 1254	680000
11096-82-5	Aroclor 1260	3000U

Vi = Volume of extract injected (uL)
Ws = Weight of sample extracted (g)
Vs = Ws = 6.01 g Vt = 10 mL
Date Reported: 10/17/86

Vs = Volume of water extracted (mL)
Vt = Volume of Total extract (mL)
Vi = 5 uL

****
* *
* *
****
S.C. McLendon, P.E.
Laboratory Director

Lab Name : H2M LABS

ORGANICS ANALYSIS DATA SHEET

Sample Number
660540

NJDEP #CD910-S1
Run 2266

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Probability Fit	% Probability REFIT	RT or Scan Number	Dry Wt. Estimated Concentration (ug/L or ug/kg)
1.	Unknown			1.39	52
2.	Unknown			2.24	240
3.	Unknown			3.49	39
4.	Unknown			4.25	1000
5.	Unknown			17.51	170
6.	Unknown			19.06	1700
7.	Unknown			21.36	850
8.	Unknown			29.55	360
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Date Reported: 10-16-86

S.C. McLendon, P.E.
Laboratory Director

H2M
Environmental Engineers & Scientists
HOLZMACHER, McLENDON and MURRELL, P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

WATER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

LAB NO. 660541
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.
65 PROSPECT ST.
TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 9/11/86 DATE RECEIVED - 9/12/86

NJDEP SAMPLE #CD 910-S1
NJDEP SAMPLE POINT I.D. #SOIL 1
SOIL SAMPLE

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	30.5 N	SELENIUM	4.10 S N
ARSENIC	30.8	SILVER	12.4 N
BERYLLIUM	4.10	THALLIUM	<3.40 N
CADMIUM	20.3	ZINC	450. N
CHROMIUM	81.0 E	PHENOLS	<0.09
COPPER	235.	CYANIDE	<7.40
LEAD	441.	TOTAL SOLIDS	59.0 %
MERCURY	1.50 *N		
NICKEL	59.7		

ALL RESULTS REPORTED IN mg/kg DRY WEIGHT

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY $ (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 10/ 8/86

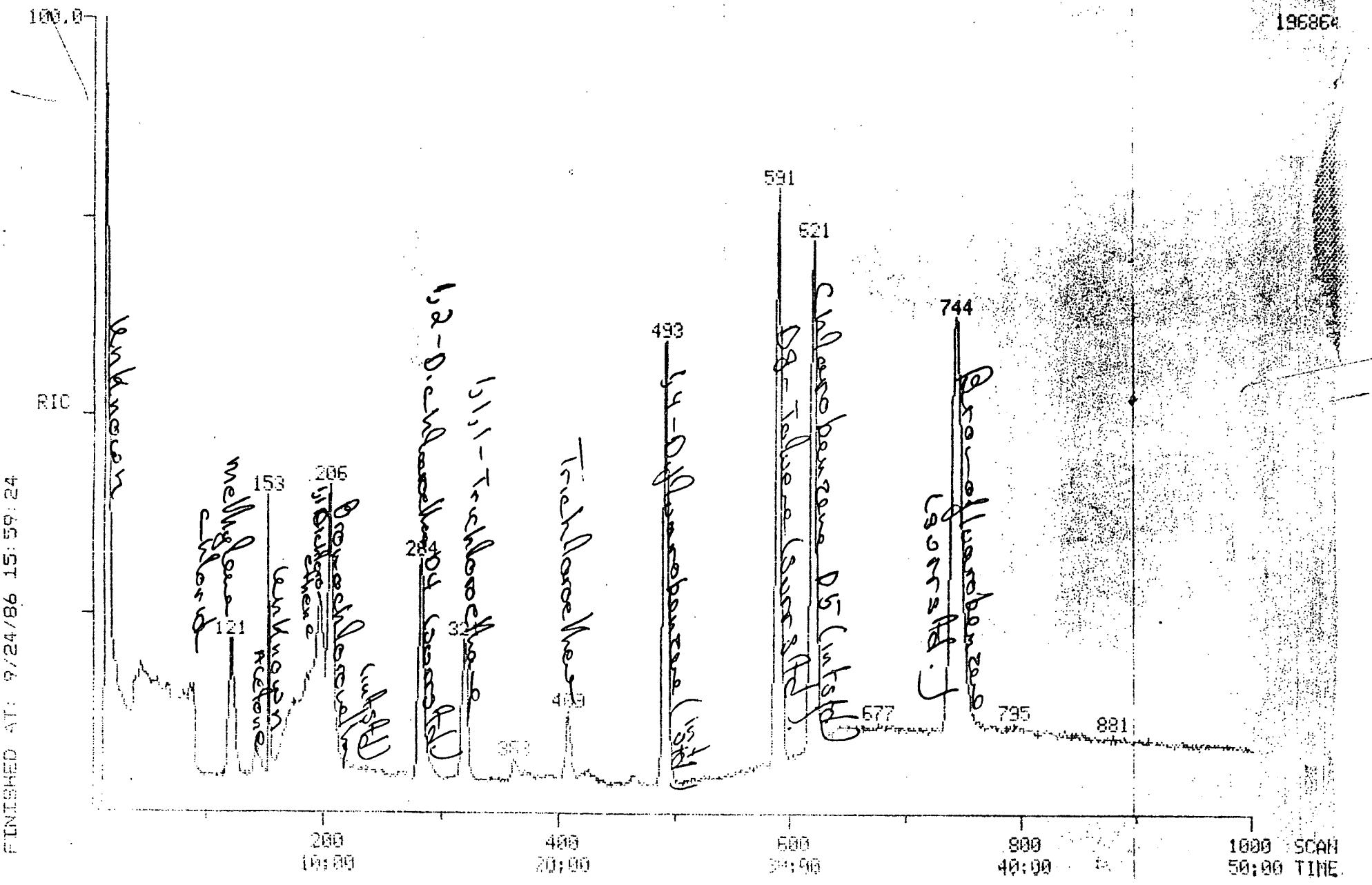
S.C. McLENDON, P.E., LABORATORY DIRECTOR

THE LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

RIC
09/25/86 18:21:00
SAMPLE: 660538
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6432 #1
CALI: PU6432 #2

SCANS 1 TO 1000



TCA FINISHED, 11 FOUND
FINISHED AT: 9/24/86 15:59:24

QUANTITATION REPORT FILE: PU6432

DATA: PU6432.TI
09/26/86 18:21:00
SAMPLE: 660538
CONDS.:
SUBMITTED BY: NJDEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D8-TOLUENE(SURR. STD)
48	BROMOFLUORBENZENE(SURR. STD)

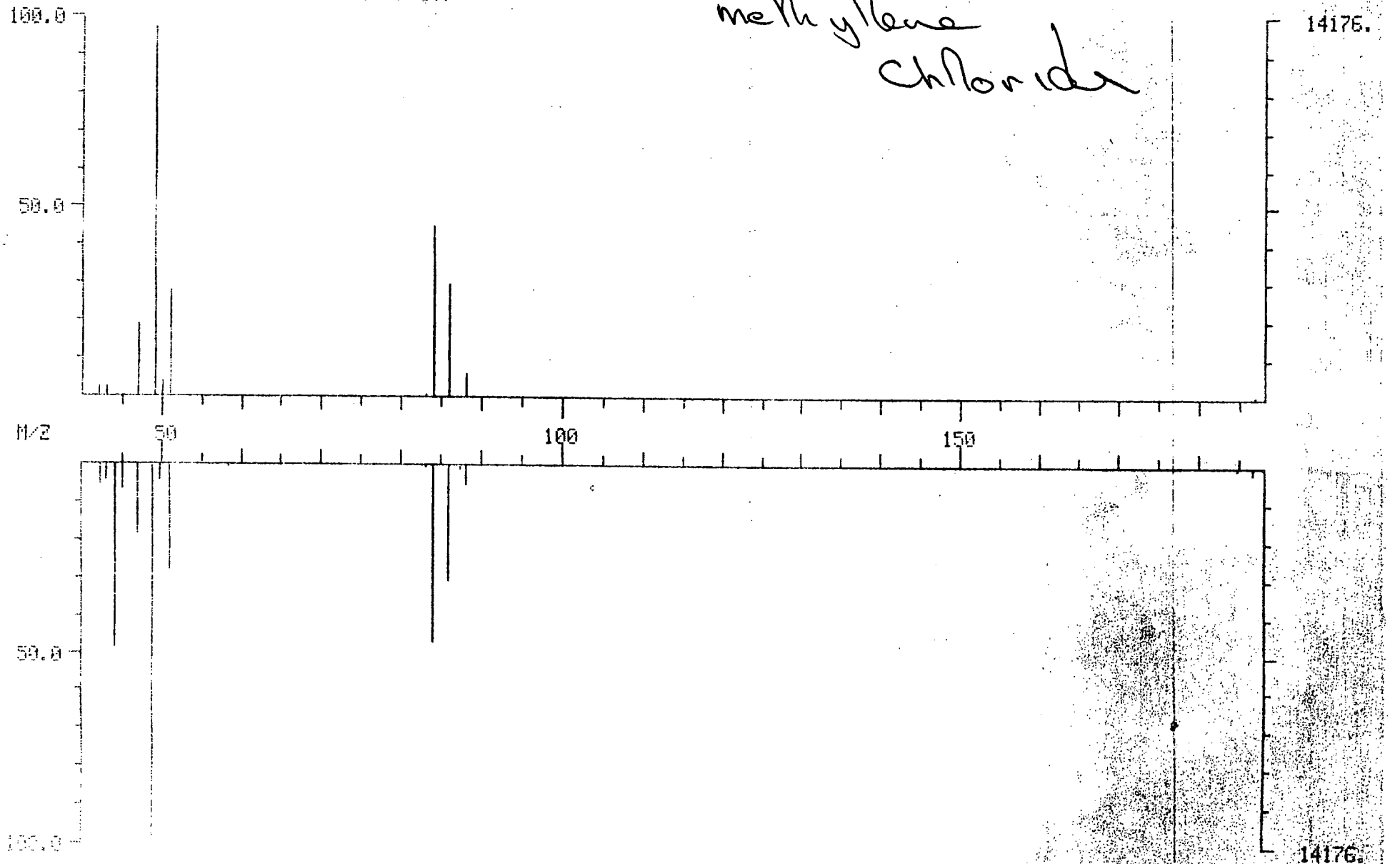
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.200	A*BV	2588.	6.073	NG	0.32
4	NOT	FOUND								
5	NOT	FOUND								
6	NOT	FOUND								
7	84	122	6:06	1	0.595	A BB	38370.	107.667	NG	5.64
8	43	143	7:09	1	0.698	A BB	25965.	194.577	NG	10.19
9	NOT	FOUND								
10	96	197	9:51	1	0.961	A BB	19847.	83.938	NG	4.39
11	NOT	FOUND								
12	96	249	12:27	1	1.215	A BB	761.	2.635	NG	0.14
13	83	264	13:12	1	1.288	A BB	284.	0.439	NG	0.02
14	NOT	FOUND								
15	NOT	FOUND								
16	NOT	FOUND								
17	NOT	FOUND								
18	NOT	FOUND								
19	114	492	24:36	19	1.000	A BB	236154.	250.000	NG	13.09
20	43	292	14:36	19	0.593	A VB	14579.	66.541	NG	3.48
21	97	321	16:03	19	0.652	A BB	44741.	108.385	NG	5.67
22	NOT	FOUND								
23	NOT	FOUND								
24	NOT	FOUND								
25	NOT	FOUND								
26	130	409	20:27	19	0.831	A BB	14451.	33.623	NG	1.76
27	NOT	FOUND								
28	NOT	FOUND								
29	78	426	21:18	19	0.866	A BB	3504.	2.261	NG	0.12
30	NOT	FOUND								
31	NOT	FOUND								
32	NOT	FOUND								
33	117	621	31:03	33	1.000	A BB	197550.	250.000	NG	13.09
34	NOT	FOUND								
35	43	554	27:42	33	0.892	A VV	1841.	51.306	NG	2.69
36	164	559	27:57	33	0.900	A BB	210.	0.311	NG	0.02
37	NOT	FOUND								
38	92	596	29:48	33	0.960	A BB	1178.	1.497	NG	0.08
39	112	625	31:15	33	1.006	A BB	371.	0.316	NG	0.02
40	NOT	FOUND								
41	NOT	FOUND								
42	NOT	FOUND								
43	NOT	FOUND								
44	NOT	FOUND								
45	NOT	FOUND								
46	NOT	FOUND								
47	100	591	29:33	33	0.952	A BB	124624.	244.357	NG	12.79
48	95	744	37:12	33	1.198	A BB	173538.	232.382	NG	12.17

DUAL MASS SPECTRUM
09/26/86 18:21:00 + 6:06
SAMPLE: 660538
COMMS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6432 #122
CALI: PU6432 #2

BASE M/Z: 49/ 49
RIC: 33151./ 42751.

methylene chloride

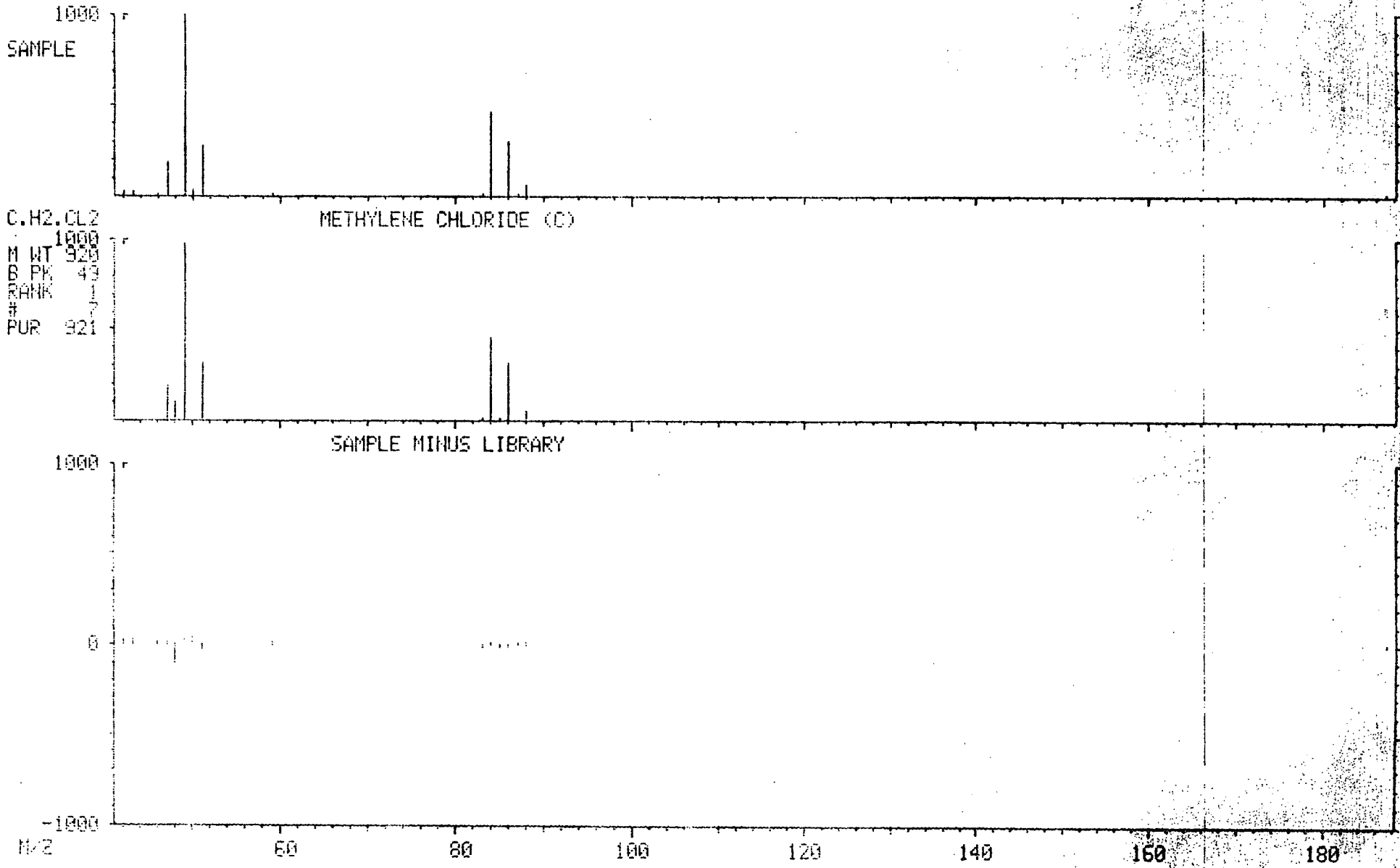


153

LIBRARY SEARCH
09/25/86 18:21:00 + 6:06
SAMPLE: 680933
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6432 # 122
CALI: PU6432 # 2

BASE M/Z: 49
RIC: 23151.



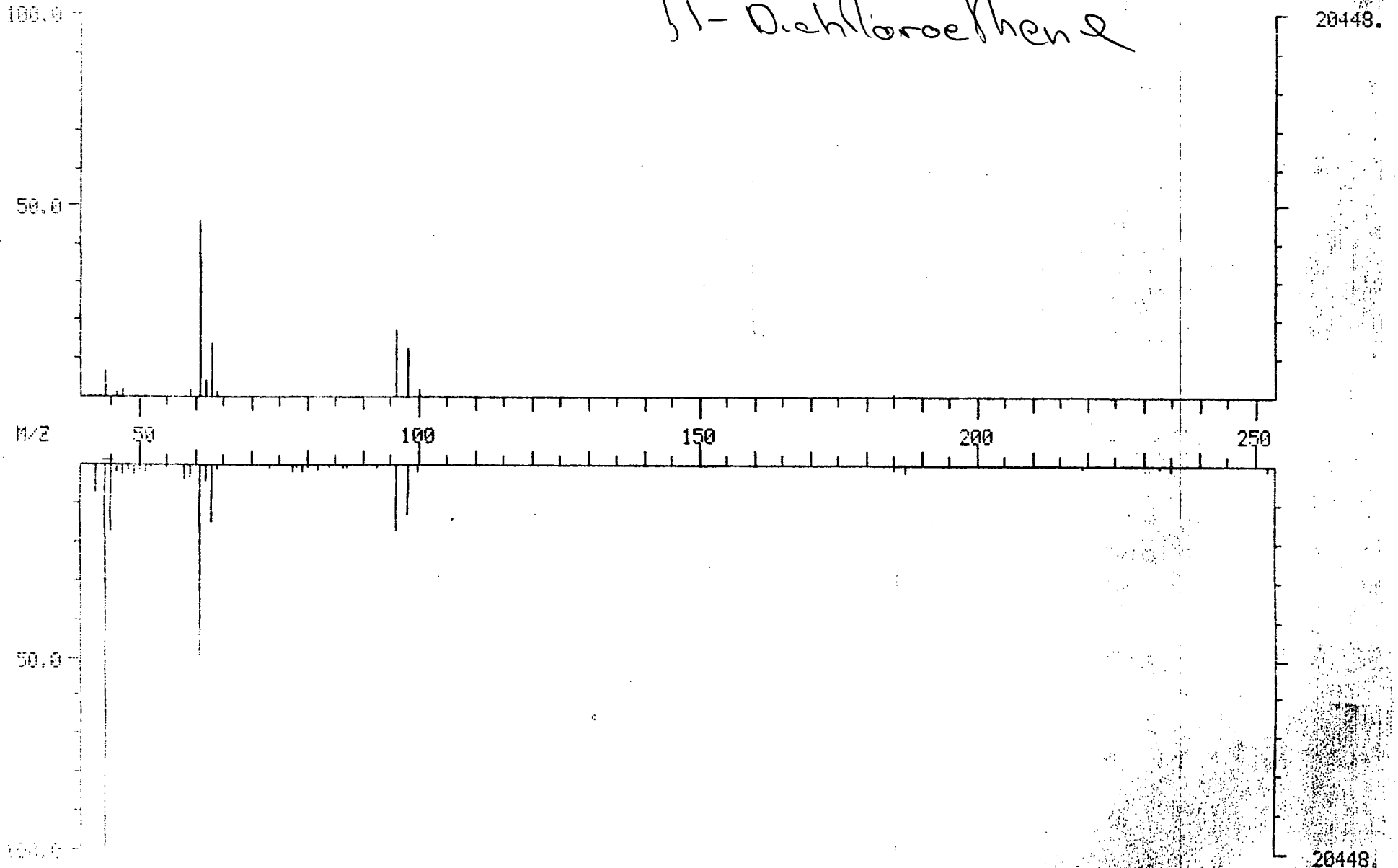
154

DUAL MASS SPECTRUM
09/29/86 18:21:00 + 9:51
SAMPLE: 660538
CONDS.:
ENHANCED (S 158 2N 0T)

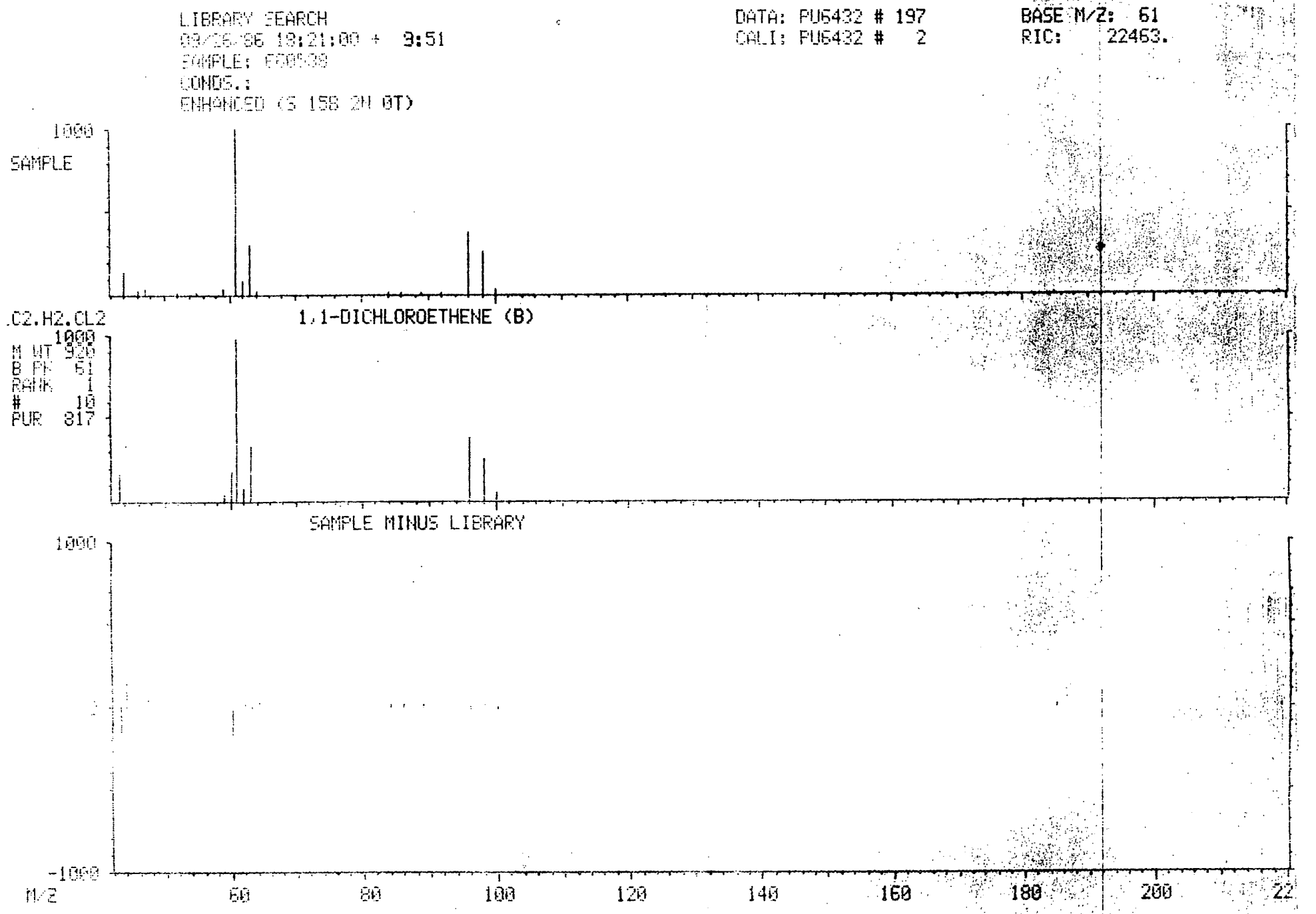
DATA: PU6432 #197
CALI: PU6432 #2

BASE M/Z: 61/ 44
RIC: 22463./ 53439.

1,1-Dichloroethene



155


LIBRARY SEARCH
09/26/86 18:21:00 + 9:51
SAMPLE: E60538
CONDS.:
ENHANCED (S 15B 2N 0T)
DATA: PU6432 # 197
CALI: PU6432 # 2
BASE M/Z: 61
RIC: 22463.
1000
SAMPLE
.C2.H2.CL2
1,1-DICHLOROETHENE (B)
1000
M WT 920
B PK 61
RANK 1
10
PUR 817
SAMPLE MINUS LIBRARY
1000
-1000
M/Z
60
80
100
120
140
160
180
200
22

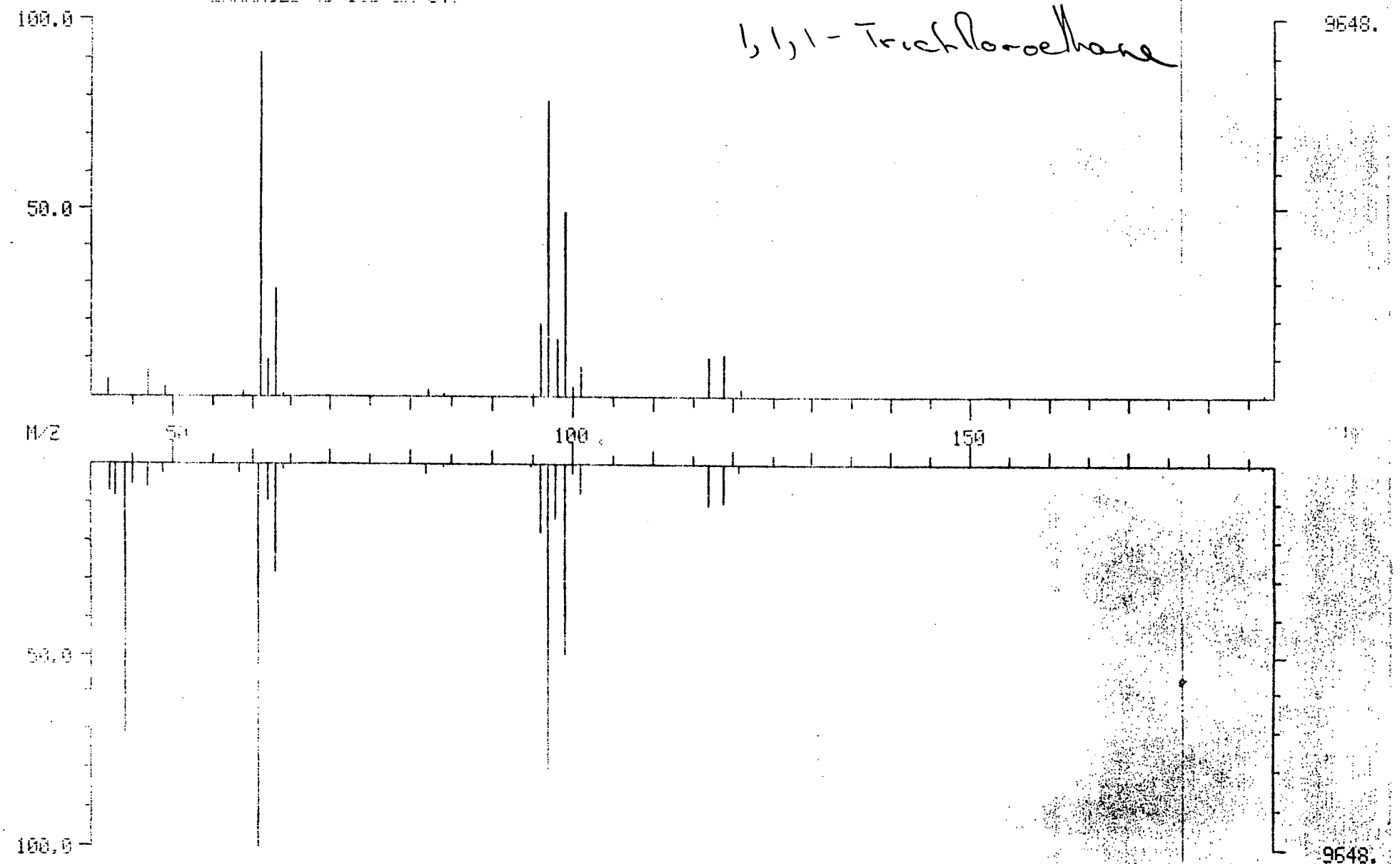
156

DUAL MASS SPECTRUM
09/26/86 18:21:00 + 16:03
SAMPLE: 660538
COMOC.:
ENHANCED (S 155 2N 0T)

DATA: PU6432 #321
CALI: PU6432 #2

BASE M/Z: 61/ 61
RIC: 32959./ 43007.

1,1,1-Trichloroethane

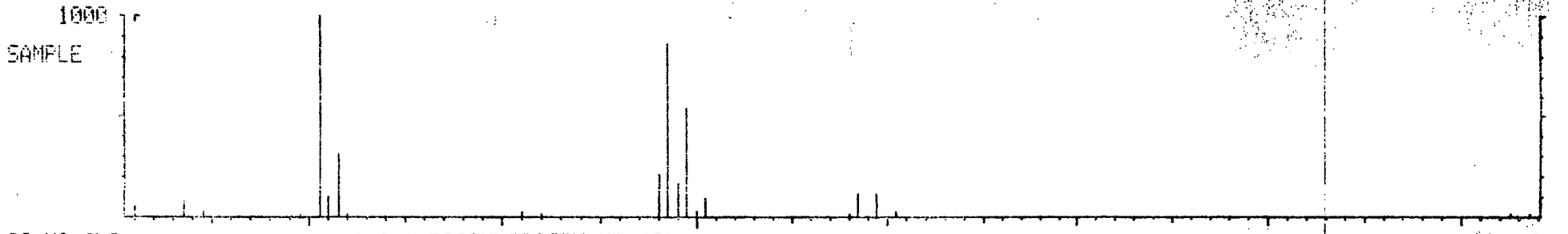


157

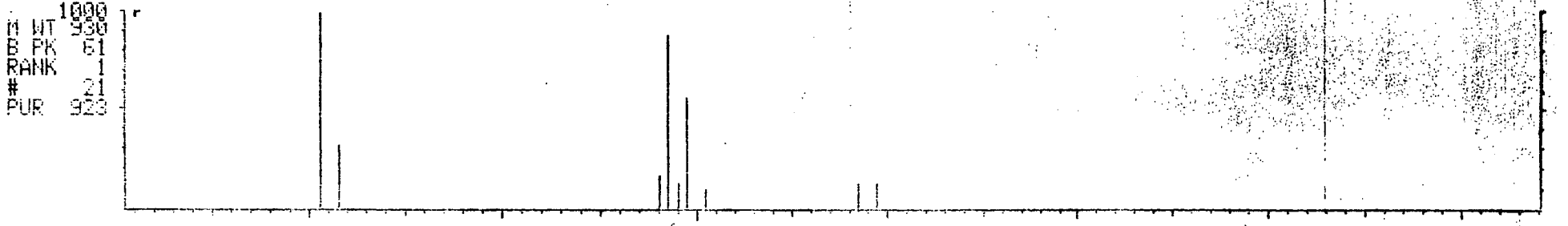
LIBRARY SEARCH
09/26/86 18:21:00 + 16:03
SAMPLE: 660538
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6432 # 321
CALI: PU6432 # 2

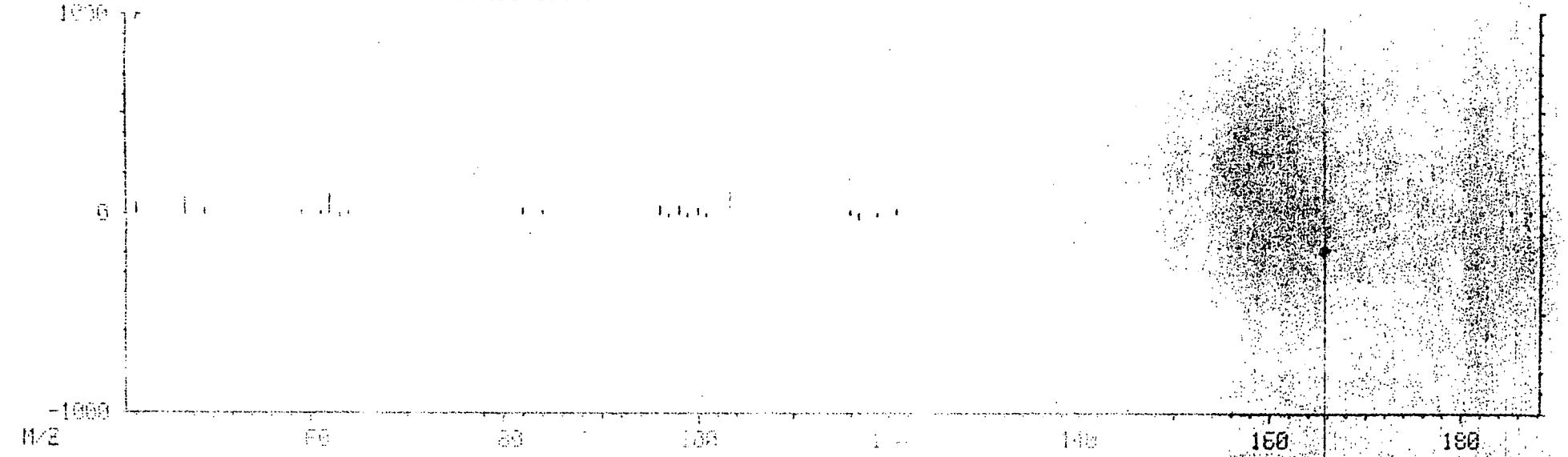
BASE M/Z: 61
RIC: 32959.



C2.H3.CL3 1,1,1-TRICHLOROETHANE (I)



SAMPLE MINUS LIBRARY



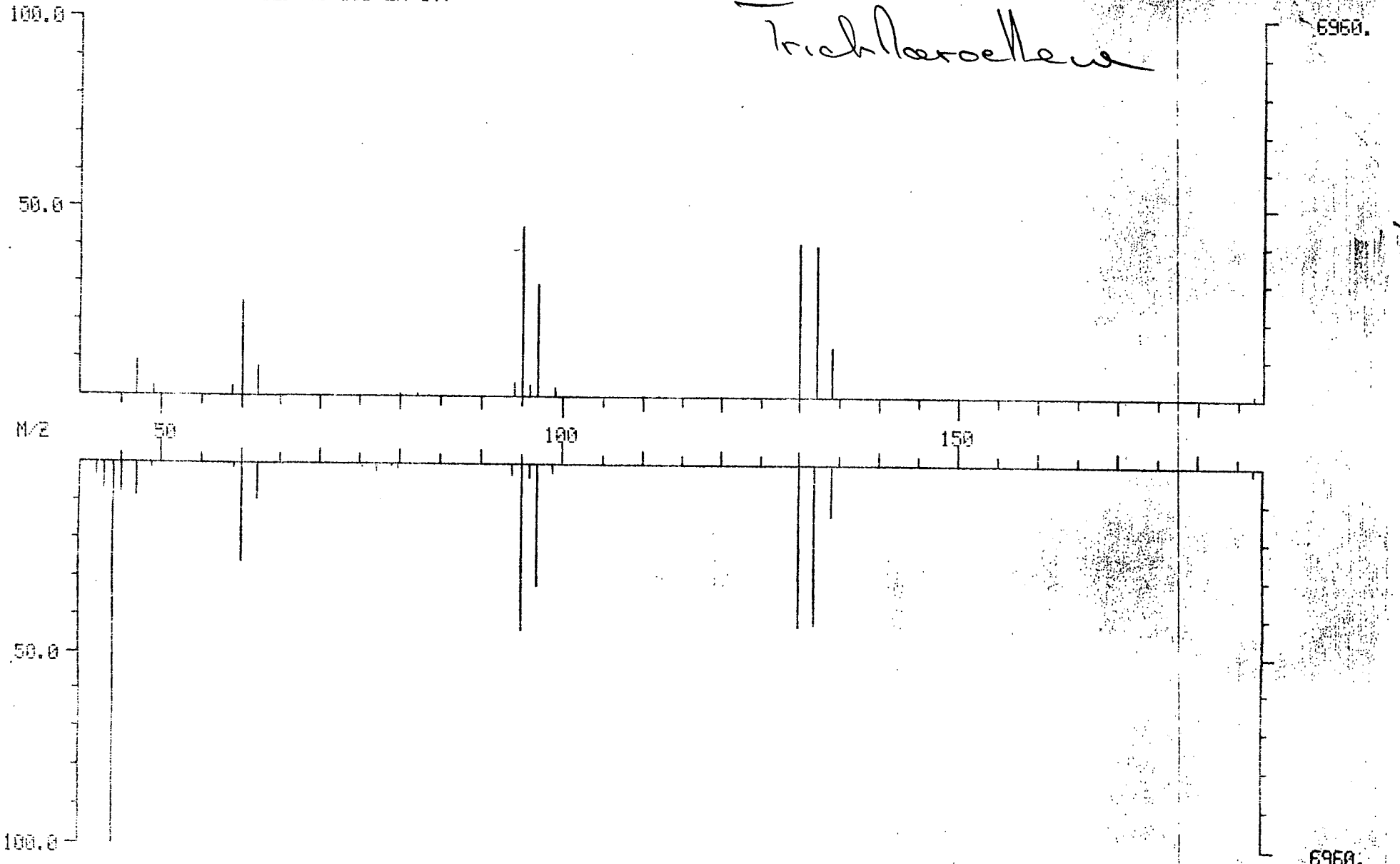
158

DUAL MASS SPECTRUM
09/26/86 18:21:08 + 20:27
SAMPLE: 660538
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6432 #409
CALI: PU6432 #2

BASE M/Z: 95/ 44
RIC: 15685./ 24767.

Trichloroethene

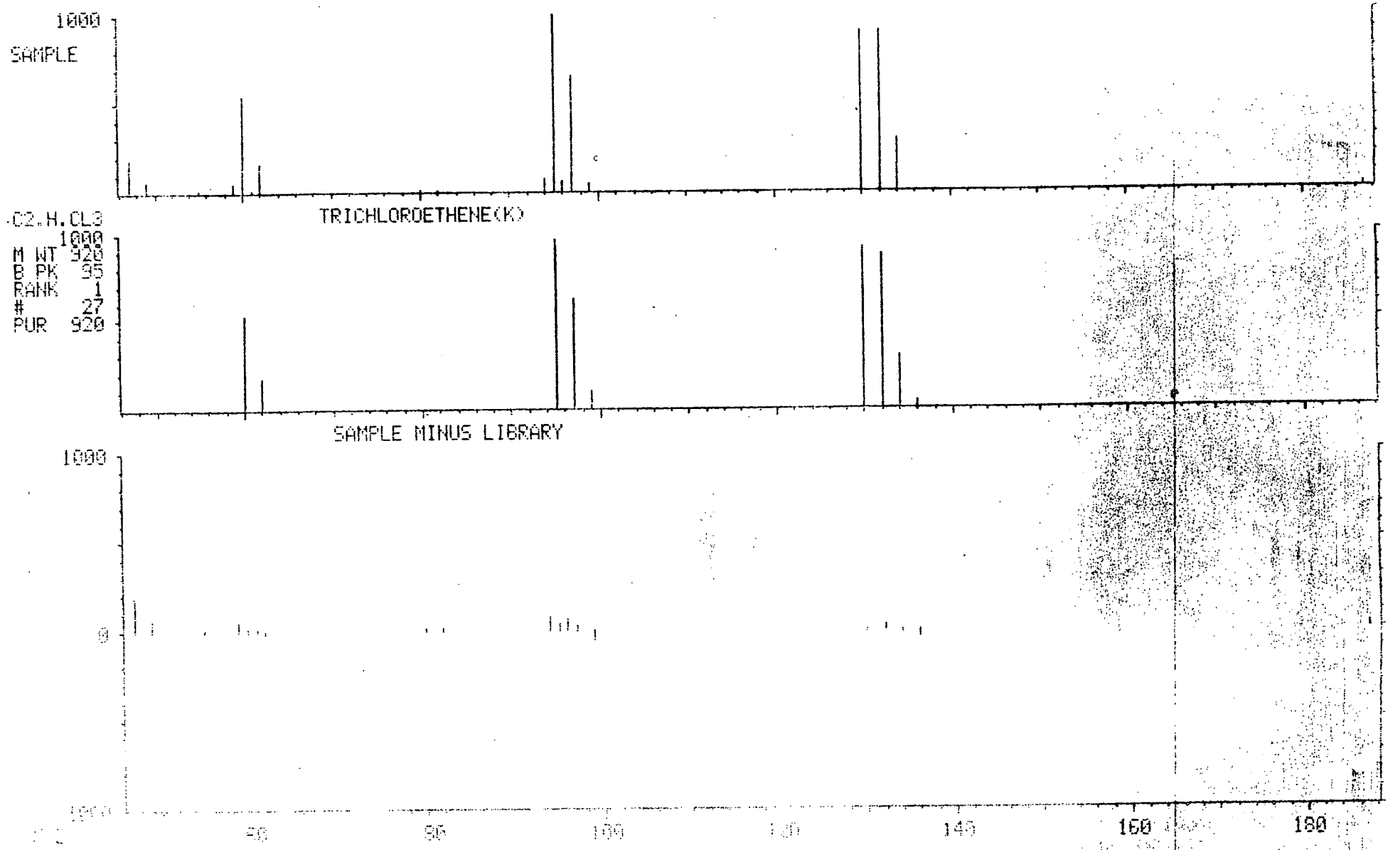


157

LIBRARY SEARCH
09/26/86 18:21:00 + 20:27
SAMPLE: 560508
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU5432 # 409
CALI: PU5432 # 2

BASE M/Z: 95
RIC: 15695.



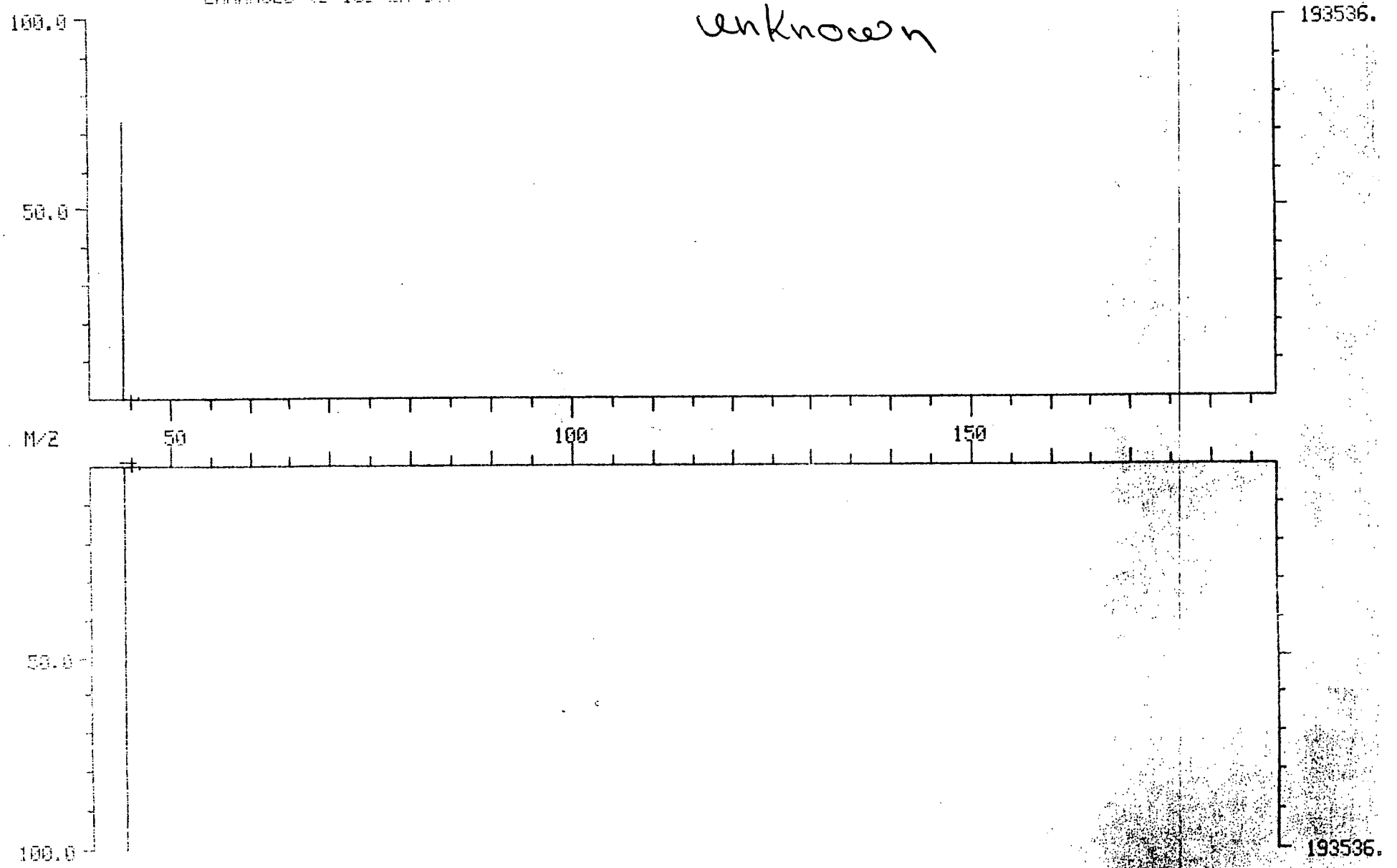
160

DUAL MASS SPECTRUM
03/25/86 18:21:03 + 0:36
SAMPLE: 660538
CONDS.:
ENHANCED (S 15B 3N 0T)

DATA: PU6432 #12
CALI: PU6432 #2

BASE M/Z: 44/ 44
RIC: 143615./ 196607.

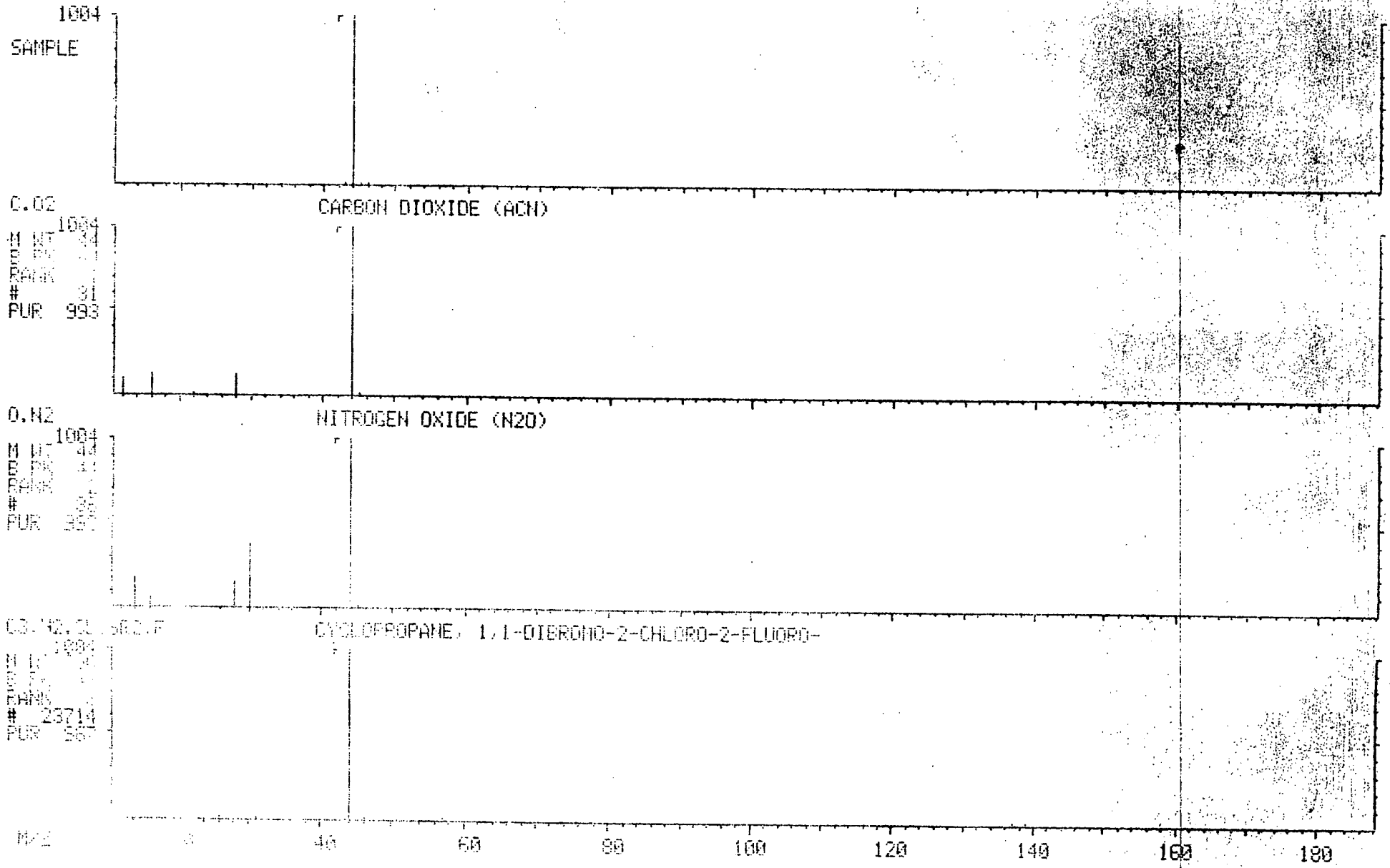
unknown



LIBRARY SEARCH
[illegible] 18:21:[illegible] + 0:36
SAMPLE: [illegible]
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6432 # 12
CALI: PU6432 # 2

BASE M/Z: 44
RIC: 143615.



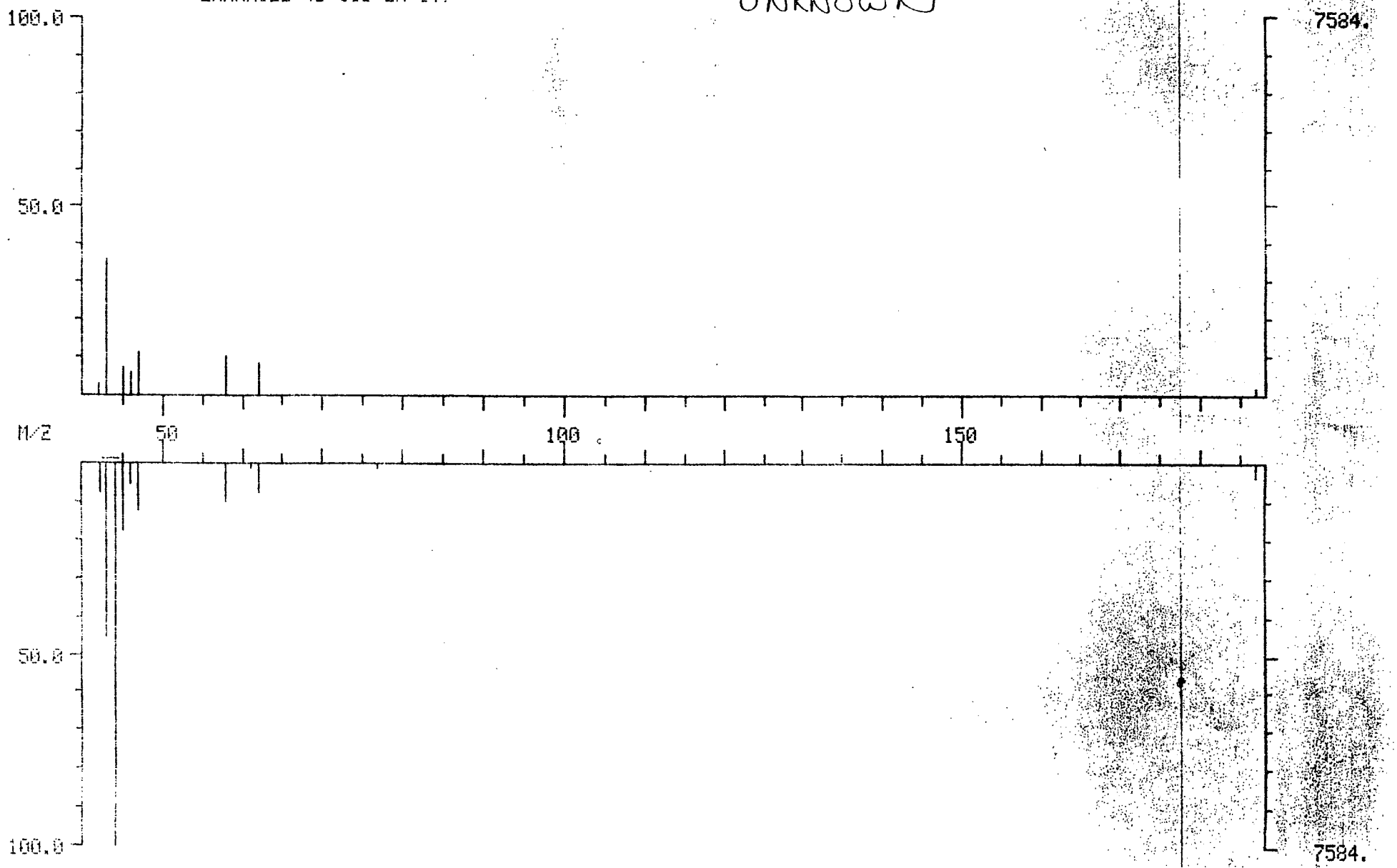
162

DUAL MASS SPECTRUM
09/26/86 18:21:00 + 7:09
SAMPLE: 660506
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6432 #143
CALI: PU6432 #2

BASE M/Z: 43/ 44
RIC: 6431./ 16063.

UNKNOWN

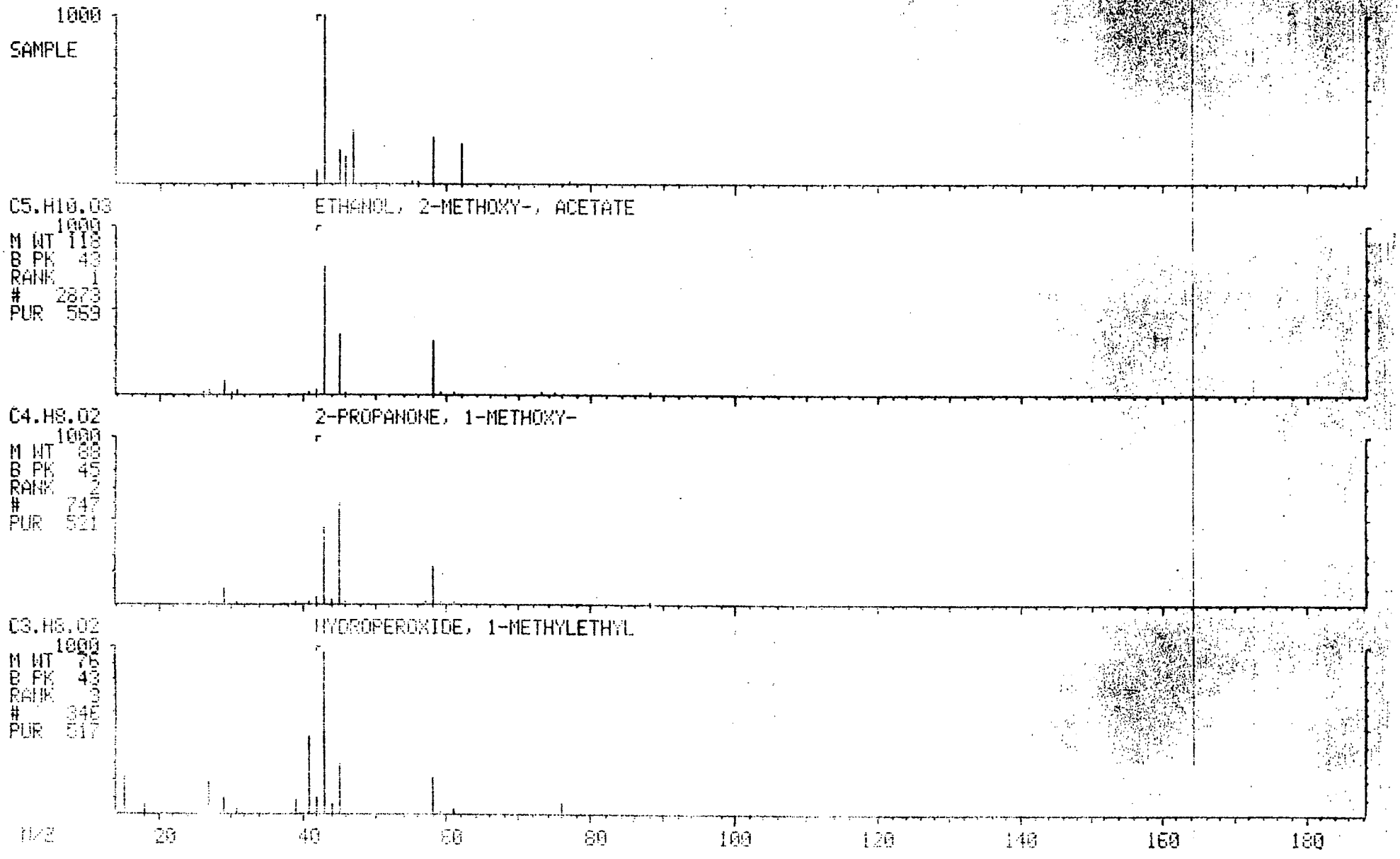


163

LIBRARY SEARCH
09/26/85 18:21:00 + 7:09
SAMPLE: 6E0538
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6432 # 143
CALI: PU6432 # 2

BASE M/Z: 43
RIC: 6431

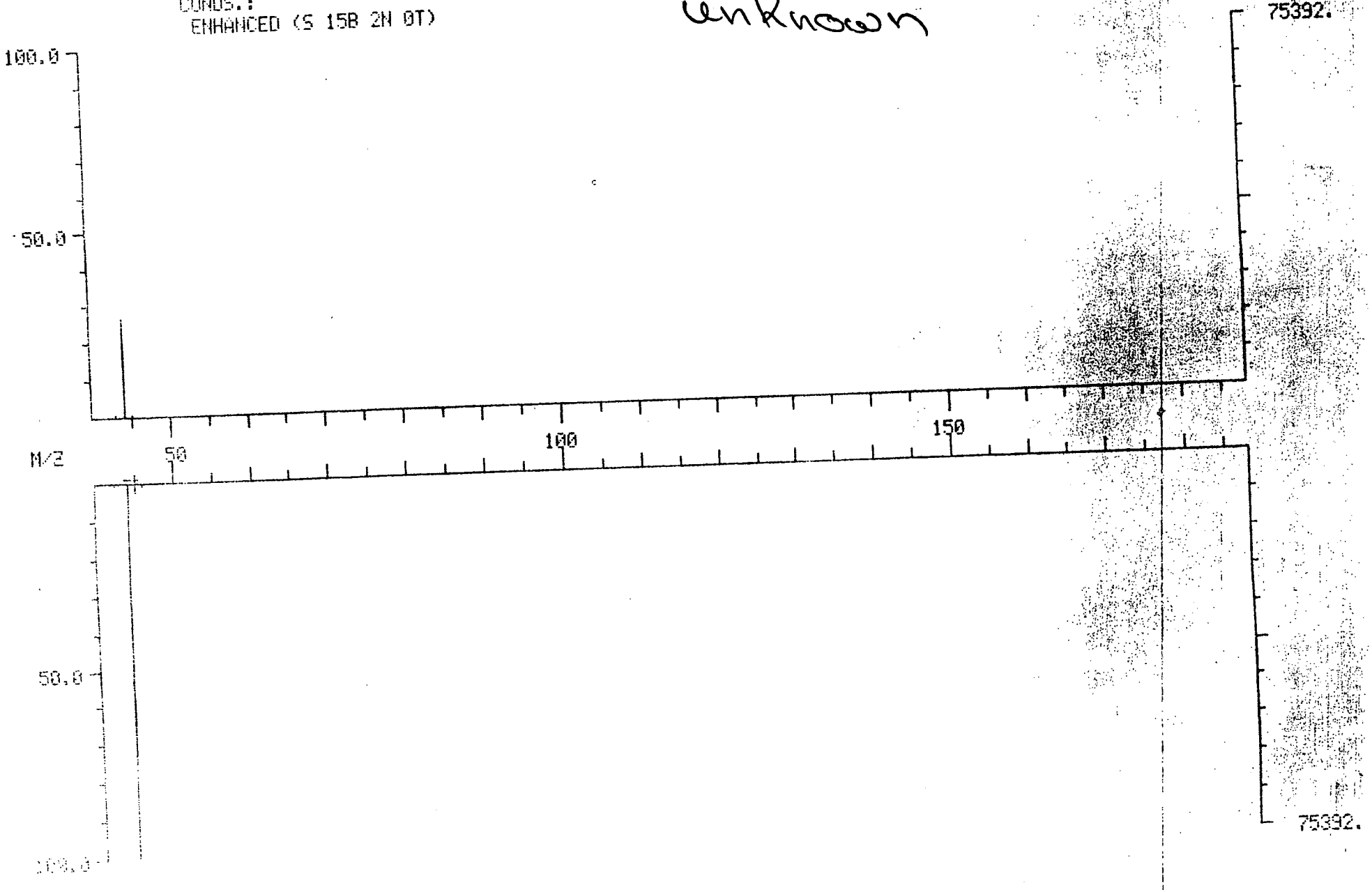


DUAL MASS SPECTRUM
09/26/86 18:21:00 + 7:39
SAMPLE: 660538
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6432 #153
CALI: PU6432 #2

BASE M/Z: 44/ 44
RIC: 21471./ 78207.

unknown

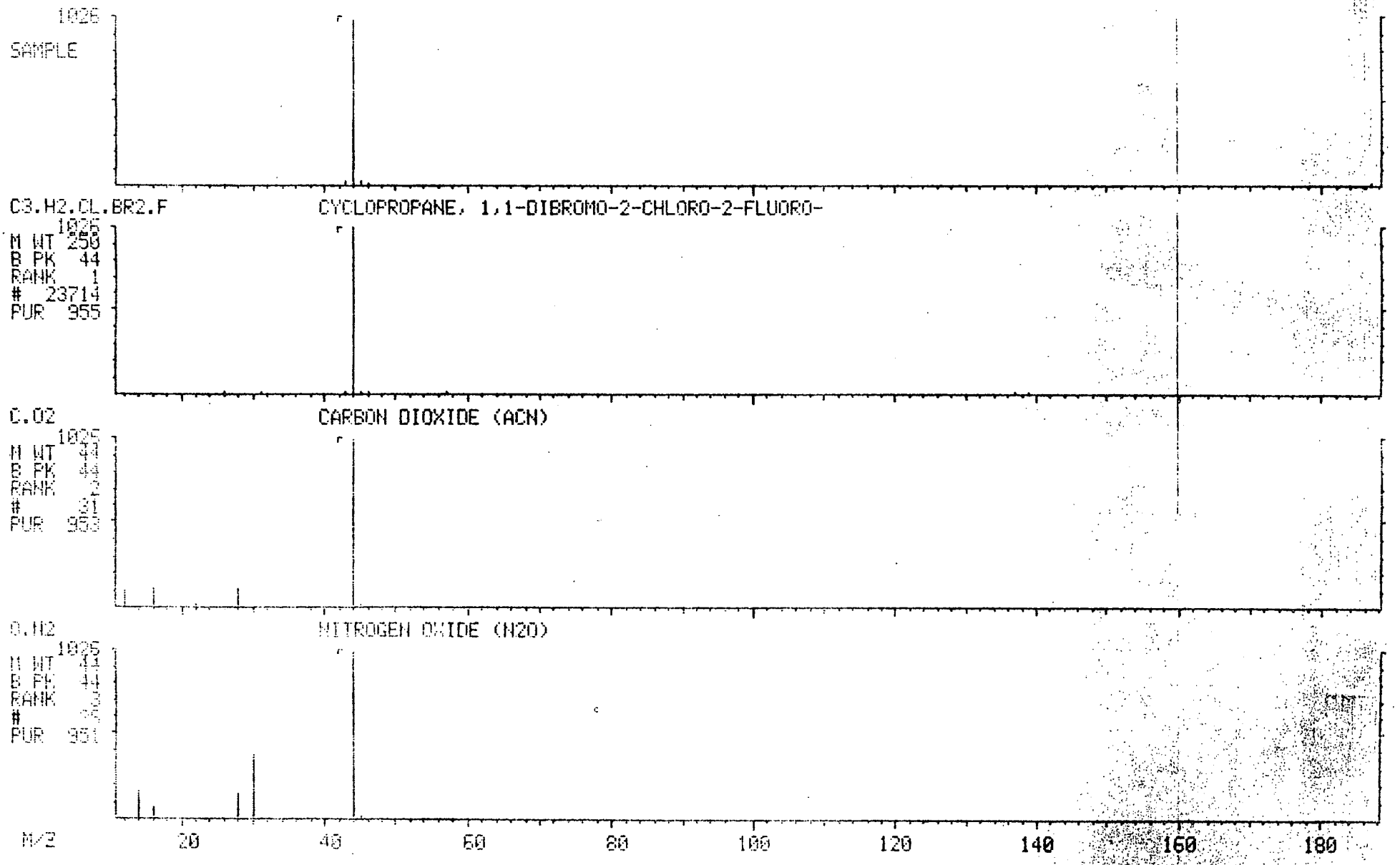


16.

LIBRARY SEARCH
03/26/86 18:21:00 + 7:33
SAMPLE: 660538
CONDS.:
ENHANCED (S 15B 2N 0T)

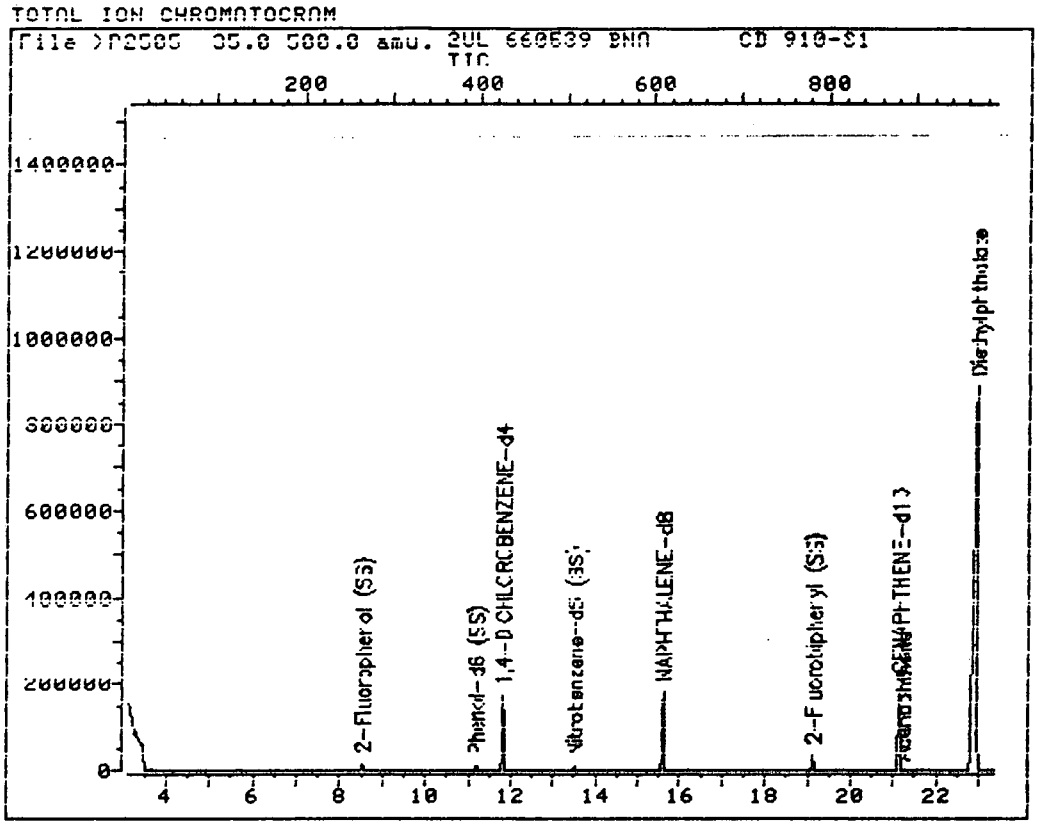
DATA: PU6432 # 153
CALI: PU6432 # 2

BASE M/Z: 44
RIC: 21471.



397

TOTAL ION CHROMATOGRAM



Data File: >P2505::D3
Name: 2UL 660539 BNA
Misc: CD 910-S1

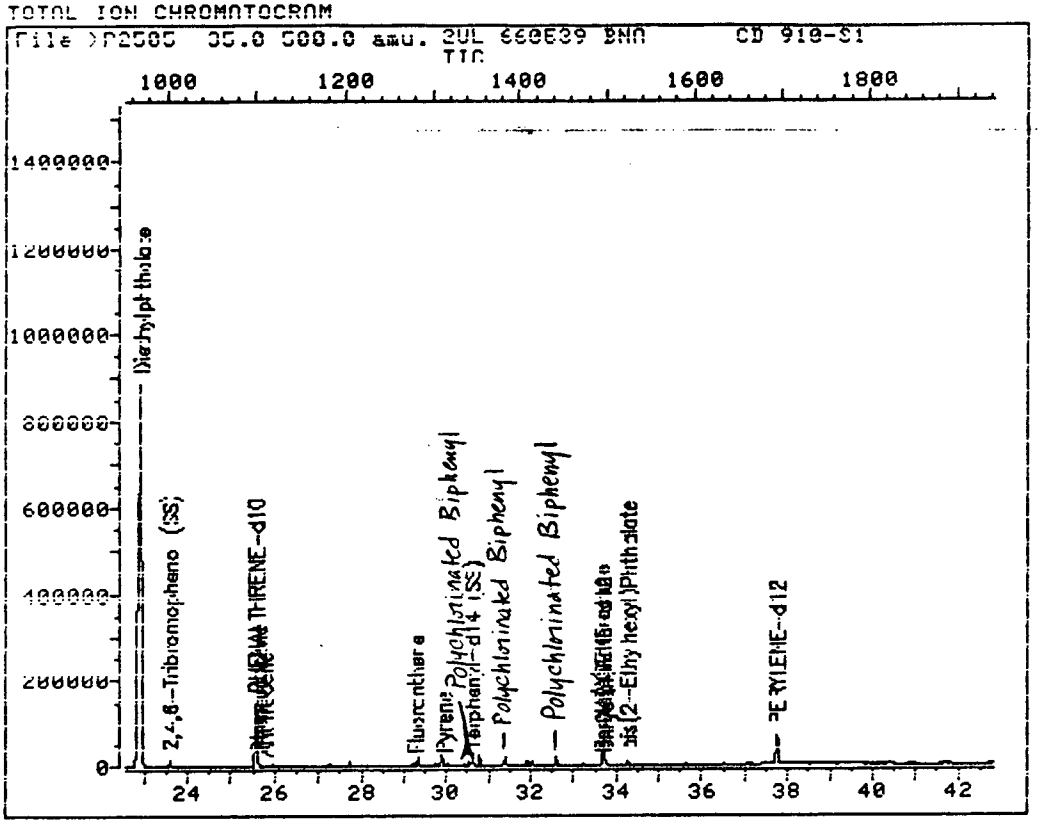
BTL#95

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861006 19:44

Operator ID: STEVE
Quant Time: 861006 23:43
Injected at: 861006 22:58

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >P2505::D3
Name: 2UL 660539 BNA
Misc: CD 910-S1

BTL#95

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861006 19:44

Operator ID: STEVE
Quant Time: 861006 23:43
Injected at: 861006 22:58

TIC page 2 of 2

QUANT REPORT

Operator ID: STEVE
Output File: ^P2505::OP
Data File: >P2505::D3
Name: 2UL 660539 BNA
Misc: CD 910-S1

Quant Rev: 4
Quant Time: 861006 23:43
Injected at: 861006 22:58
Dilution Factor: 1.00

BTL#95

ID File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861006 19:44

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.82	427	62463	40.00	NG	89
3)	2-Fluorophenol (SS)	8.52	266	10223	5.85	NG	87
7)	Phenol-d6 (SS)	11.18	396	9994	5.16	NG	87
15)	*NAPHTHALENE-d8	15.62	613	208976	40.00	NG	50
16)	Nitrobenzene-d5 (SS)	13.51	510	6296	3.26	NG	85
27)	*ACENAPHTHENE-d10	21.14	883	95294	40.00	NG	92
31)	2-Fluorobiphenyl (SS)	19.14	785	28958	7.57	NG	97
34)	Acenaphthene	21.22	887	503	.13	NG	95
39)	Diethylphthalate	22.94	971	1986695	380.81	NG	97
42)	2,4,6-Tribromophenol (SS)	23.59	1003	4395	5.16	NG	83
43)	*PHENANTHRENE-d10	25.58	1100	142929	40.00	NG	50
50)	Phenanthrene	25.64	1103	5107	1.17	NG	51
51)	Anthracene	25.76	1109	1321	.30	NG	60
53)	Fluoranthene	29.28	1281	4683	1.94	NG	60
54)	*CHRYSENE-d12	33.70	1497	99213	40.00	NG	44
55)	Terphenyl-d14 (SS)	30.61	1346	14795	9.31	NG	38
57)	Pyrene	29.93	1313	4849	1.44	NG	46
60)	Benzo(a)Anthracene	33.66	1495	2315	.75	NG	84
61)	bis(2-Ethylhexyl)Phthalate	34.27	1525	5805	2.18	NG	86
62)	Chrysene	33.76	1500	2389	.76	NG	92
63)	*PERYLENE-d12	37.75	1695	94243	40.00	NG	77

* Compound is ISTD

MS data file header from : >P2505

Sample: 2UL 660539 BNA Operator: STEVE MS 10/06/86 22:58
Misc : CD 910-S1 BTL#95
Sys. #: 1 MS model: 96 SW/HW rev.: CA ALS # : 0
Method file: EXTRII Tuning file: MT9301 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 220 Transfer line temp. : 280

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

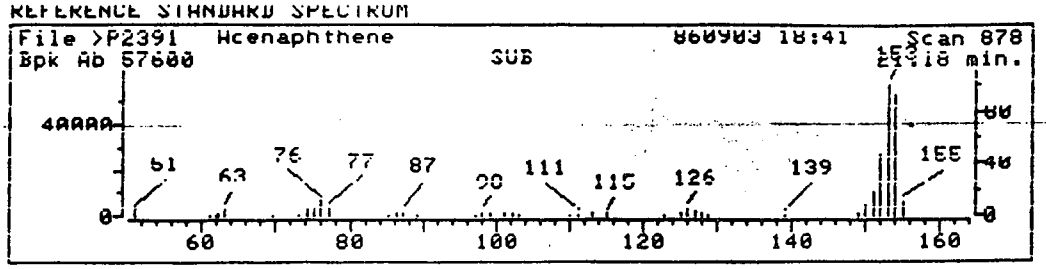
>P2505 2UL 660539 BNA CD 910-S1
35.01 500.0 CLP ADC TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	15.619	609	613	615	183423	472487	472487	49.08	21.77
2	21.201	877	886	889	18017	123427	123427	12.82	5.68
3	23.001	960	974	983	4877	54565	54565	5.67	2.51
4	25.577	1097	1100	1113	145881	965824	962719	100.00	44.35
5	30.527	1340	1342	1353	5050	57439	53399	5.55	2.46
6	30.794	1353	1355	1358	24064	61171	58780	6.11	2.70
7	31.408	1380	1385	1388	19344	76361	73874	7.67	3.40
8	32.594	1440	1443	1447	19043	56738	54492	5.66	2.51
9	33.699	1490	1497	1508	9002	98035	84169	8.74	3.87
10	37.751	1691	1695	1706	66732	301130	232366	24.14	10.70

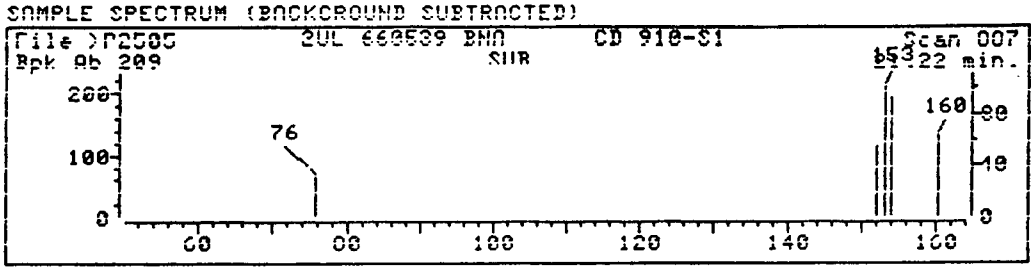
Sum of corrected areas: 2170278.

3:30 PM TUE., 7 OCT., 1986

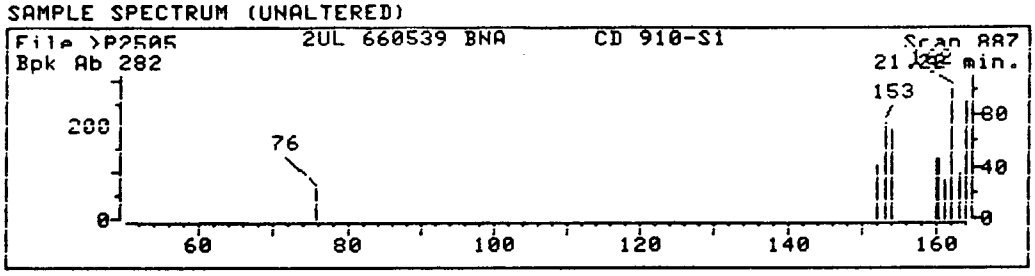
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

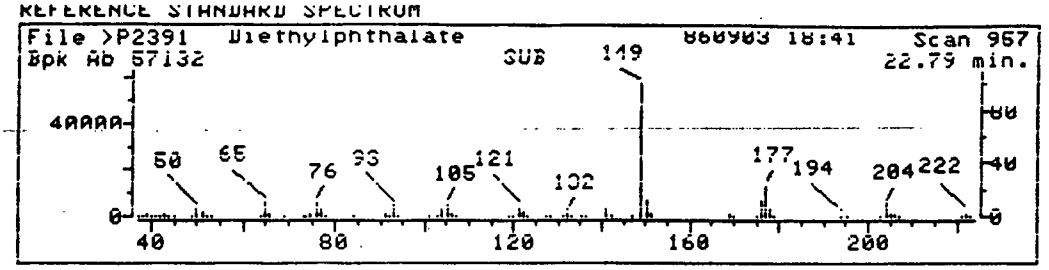


Data File: >P2505::D3
Name: 2UL 660539 BNA
Misc: CD 910-S1
Quant Time: 861006 23:43
Injected at: 861006 22:58

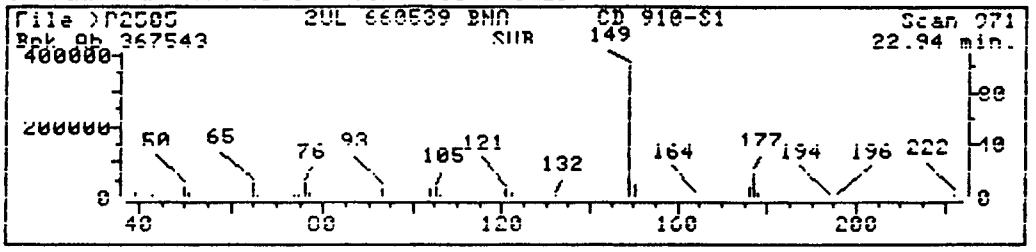
BTL#95

Compound No: 34
Compound Name: Acenaphthene
Scan Number: 887
Retention Time: 21.22 min.
Area: 503
Concentration: .13 NG
q-value: 95

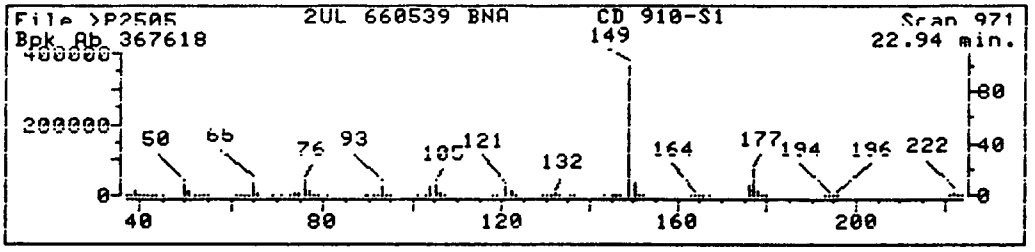
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

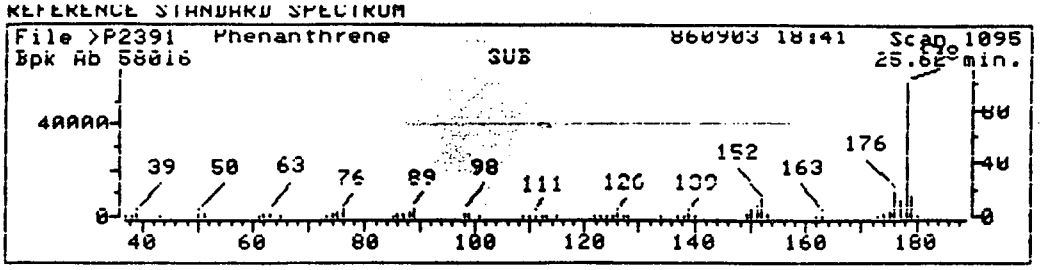


Data File: >P2505::D3
Name: 2UL 660539 BNA
Misc: CD 910-S1
Quant Time: 861006 23:43
Injected at: 861006 22:58

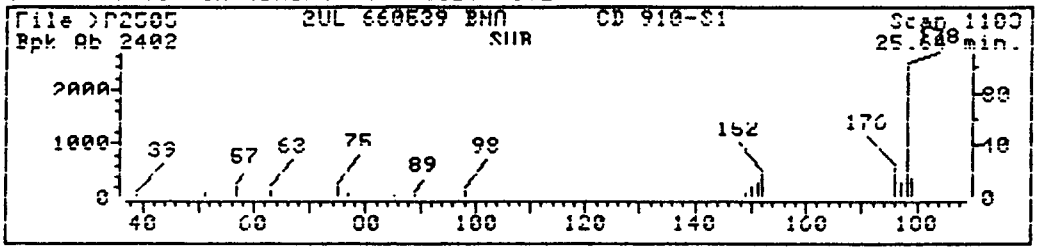
BTL#95

Compound No: 39
Compound Name: Diethylphthalate
Scan Number: 971
Retention Time: 22.94 min.
Area: 1986695
Concentration: 380.81 NG
q-value: 97

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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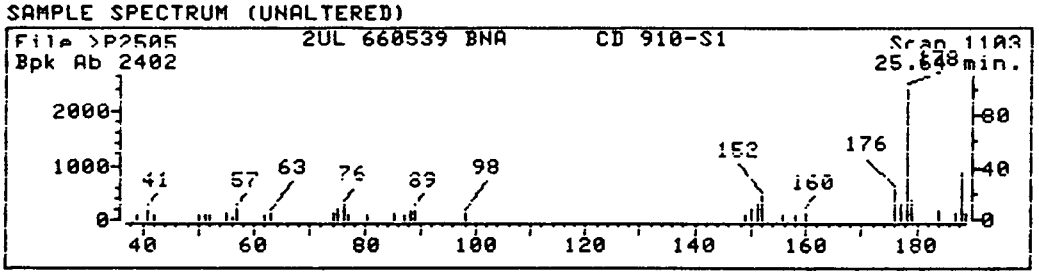
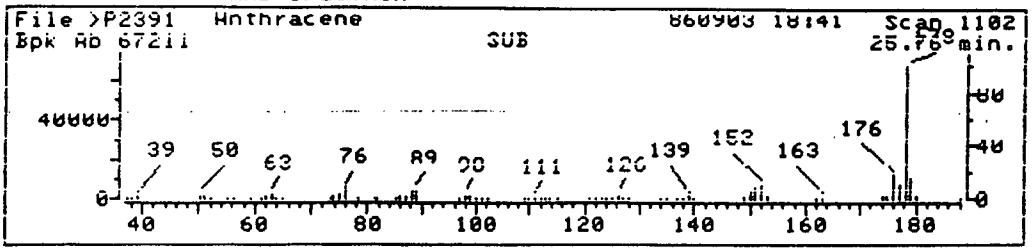


Data File: >P2505::D3
Name: 2UL 660539 BNA
Misc: CD 910-S1
Quant Time: 861006 23:43
Injected at: 861006 22:58

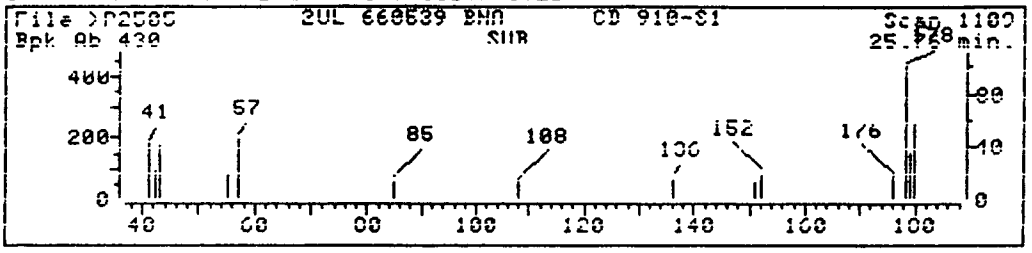
BTL#95

Compound No: 50
Compound Name: Phenanthrene
Scan Number: 1103
Retention Time: 25.64 min.
Area: 5107
Concentration: 1.17 NG
q-value: 51

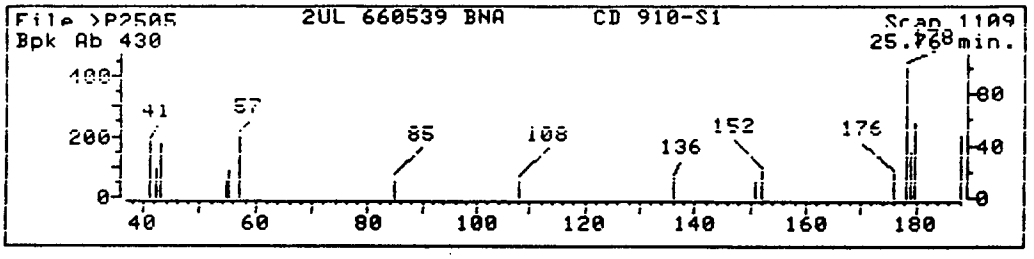
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

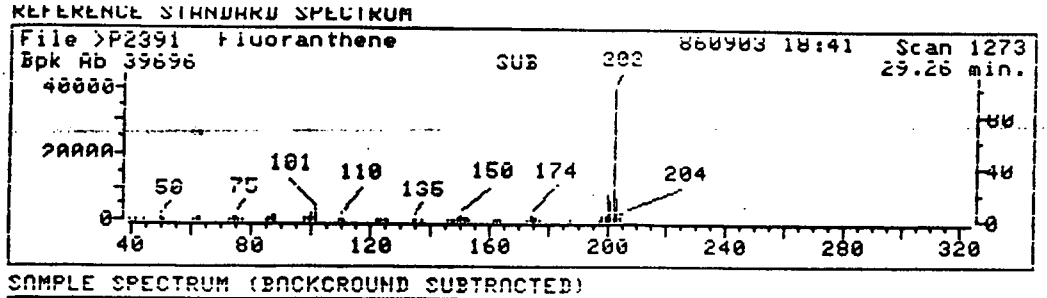


Data File: >P2505::D3
Name: 2UL 660539 BNA
Misc: CD 910-S1
Quant Time: 861006 23:43
Injected at: 861006 22:58

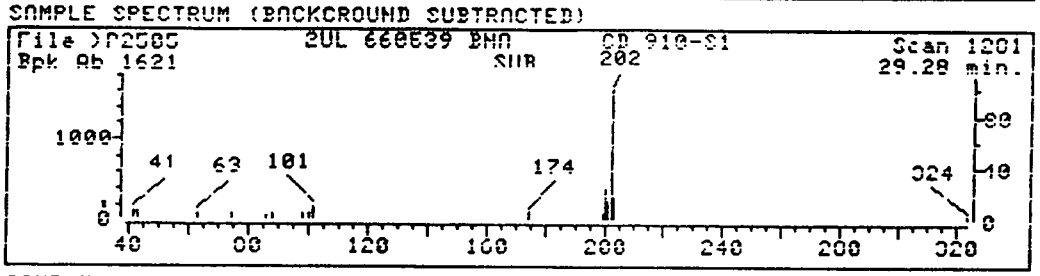
BTL#95

Compound No: 51
Compound Name: Anthracene
Scan Number: 1109
Retention Time: 25.76 min.
Area: 1321
Concentration: .30 NG
q-value: 60

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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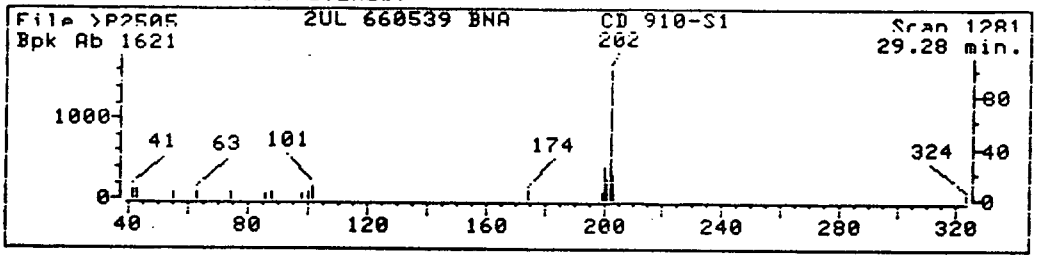
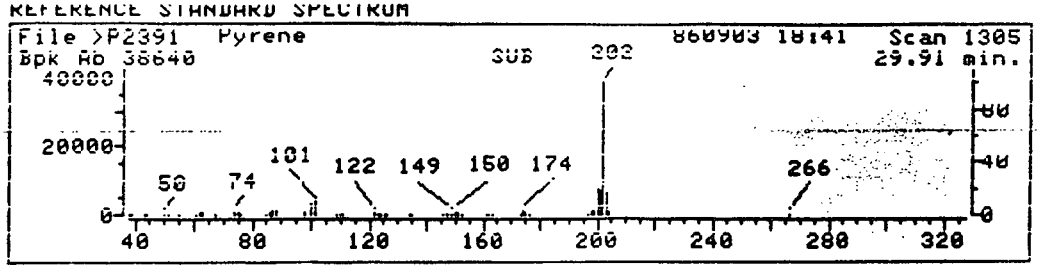


Data File: >P2505::D3
Name: 2UL 660539 BNA
Misc: CD 910-S1
Quant Time: 861006 23:43
Injected at: 861006 22:58

BTL#95

Compound No: 53
Compound Name: Fluoranthene
Scan Number: 1281
Retention Time: 29.28 min.
Area: 4683
Concentration: 1.94 NG
q-value: 60

REFERENCE STANDARD SPECTRUM



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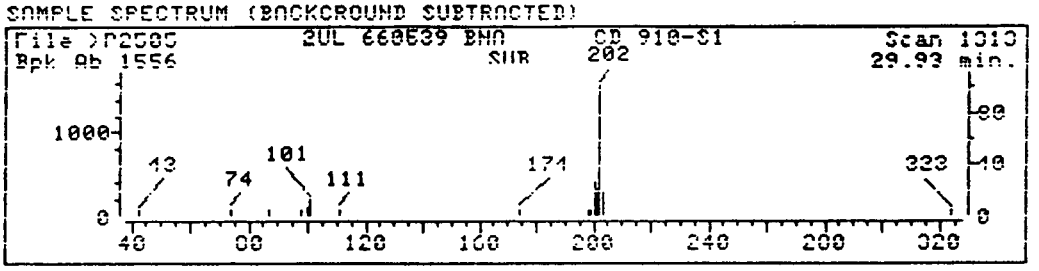

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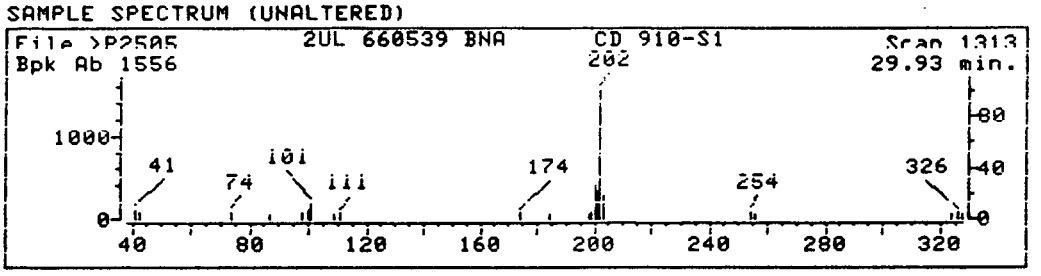
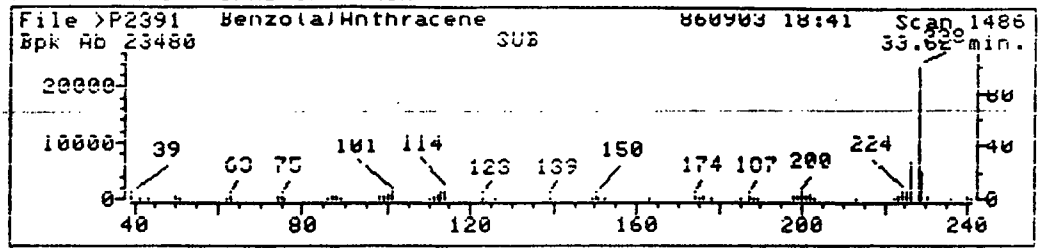


Data File: >P2505::D3
Name: 2UL 660539 BNA
Misc: CD 910-S1
Quant Time: 861006 23:43
Injected at: 861006 22:58

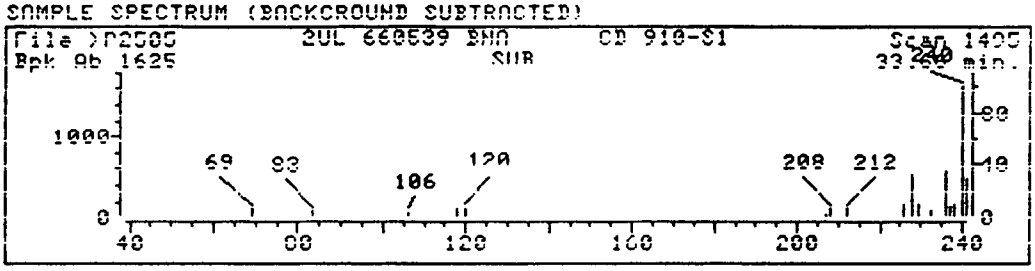
BTL#95

Compound No: 57
Compound Name: Pyrene
Scan Number: 1313
Retention Time: 29.93 min.
Area: 4849
Concentration: 1.44 NG
q-value: 46

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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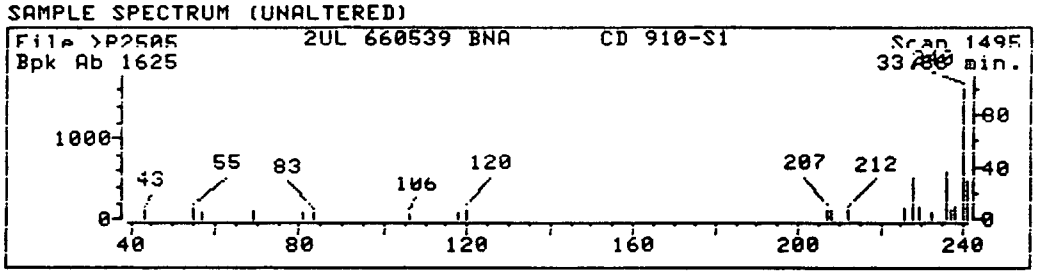
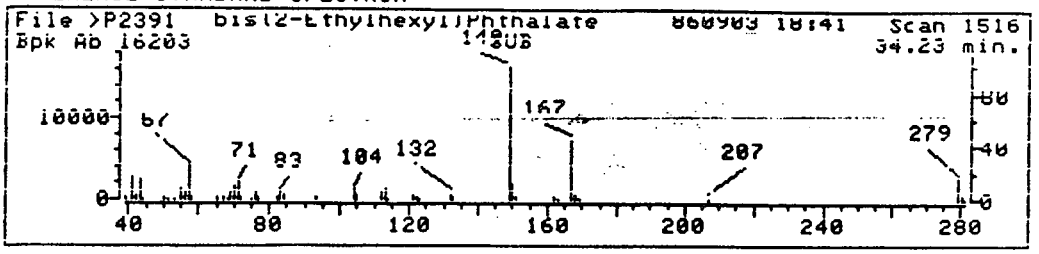


Data File: >P2505::D3
Name: 2UL 660539 BNA
Misc: CD 910-S1
Quant Time: 861006 23:43
Injected at: 861006 22:58

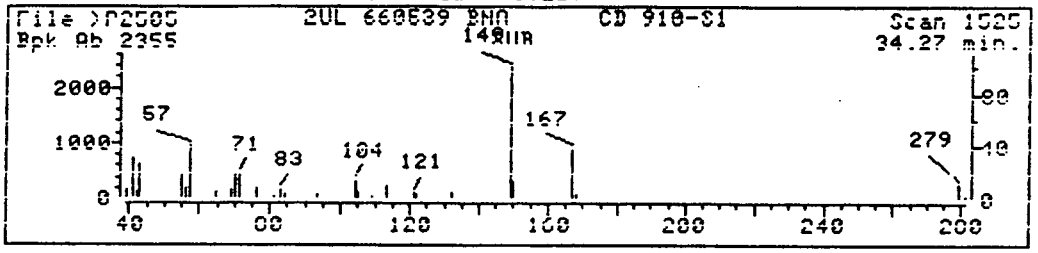
BTL#95

Compound No: 60
Compound Name: Benzo(a)Anthracene
Scan Number: 1495
Retention Time: 33.66 min.
Area: 2315
Concentration: .75 NG
q-value: 84

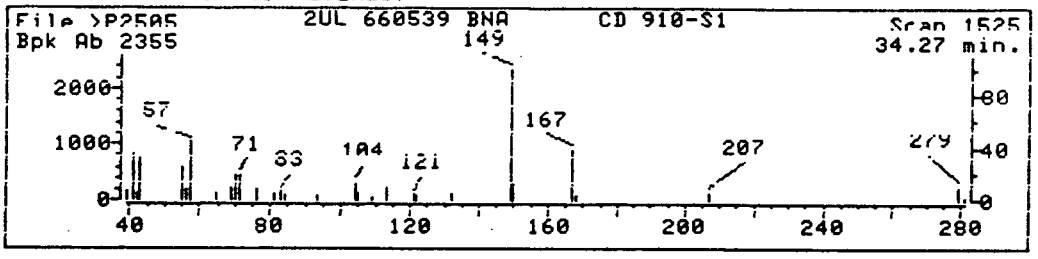
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

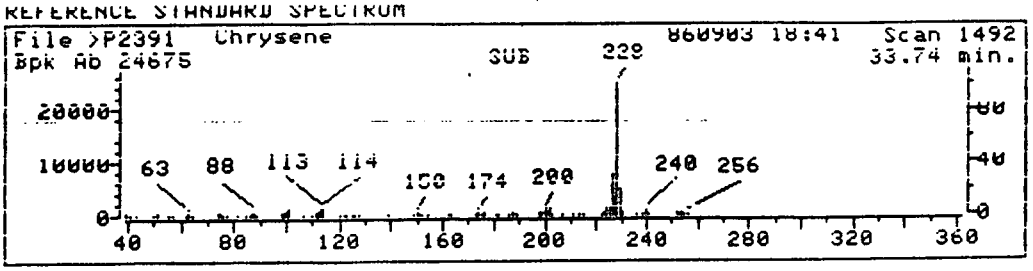


Data File: >P2505::D3
Name: 2UL 660539 BNA
Misc: CD 910-S1
Quant Time: 861006 23:43
Injected at: 861006 22:58

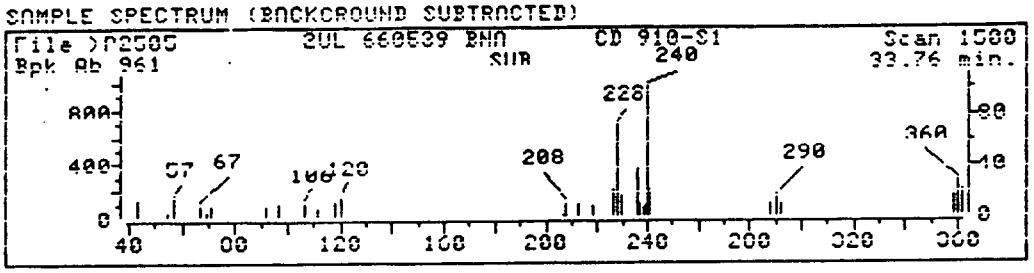
BTL#95

Compound No: 61
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1525
Retention Time: 34.27 min.
Area: 5805
Concentration: 2.18 NG
q-value: 86

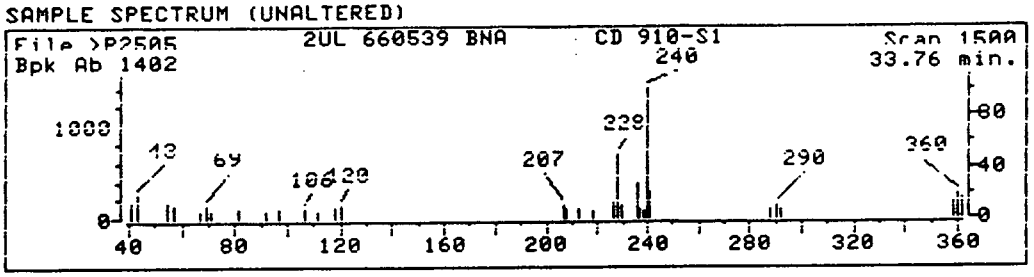
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



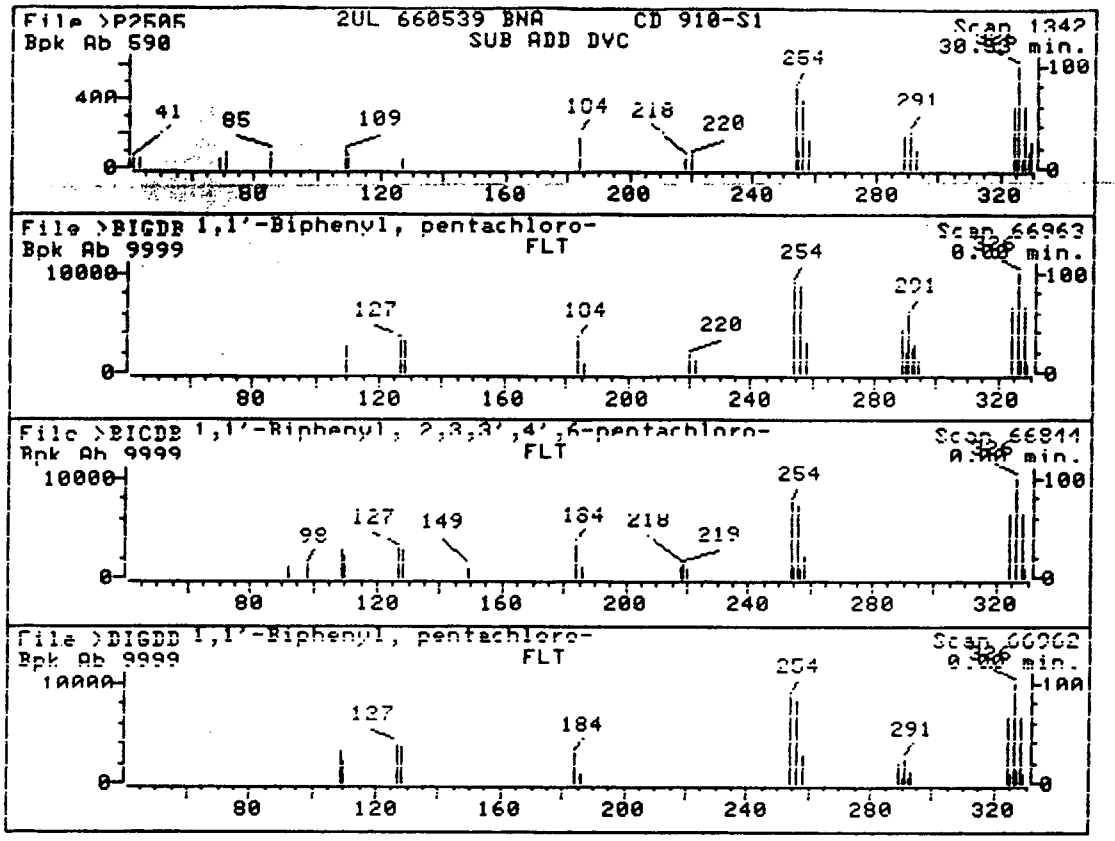
SAMPLE SPECTRUM (UNALTERED)



Data File: >P2505::D3
Name: 2UL 660539 BNA
Misc: CD 910-S1
Quant Time: 861006 23:43
Injected at: 861006 22:58

BTL#95

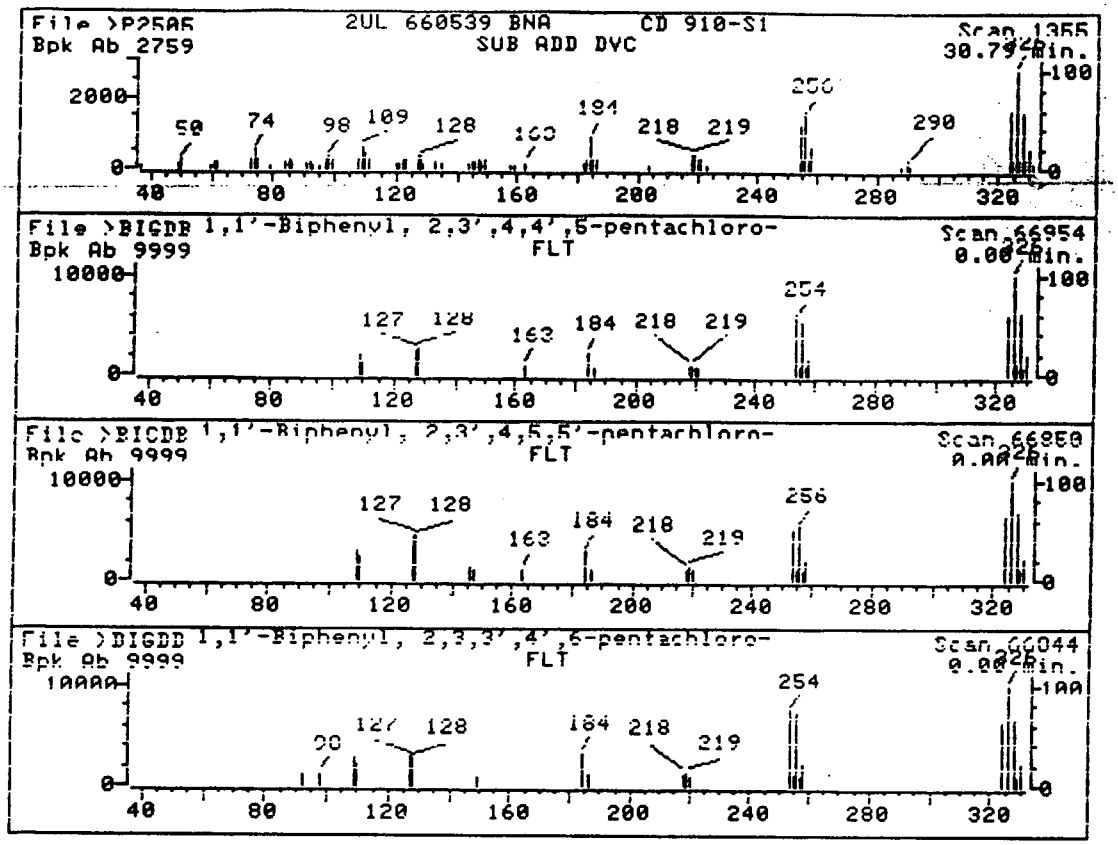
Compound No: 62
Compound Name: Chrysene
Scan Number: 1500
Retention Time: 33.76 min.
Area: 2389
Concentration: .76 NG
q-value: 92



1. 1,1'-Biphenyl, pentachloro- 324 C12H5Cl5
2. 1,1'-Biphenyl, 2,3,3',4',6-pentachloro- 324 C12H5Cl5
3. 1,1'-Biphenyl, pentachloro- 324 C12H5Cl5
4. 1,1'-Biphenyl, 2,2',4,4',5-pentachloro- 324 C12H5Cl5
5. 1,1'-Biphenyl, 2,3,3',4,4'-pentachloro- 324 C12H5Cl5

Sample file: >P2505 Spectrum #: 1342
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

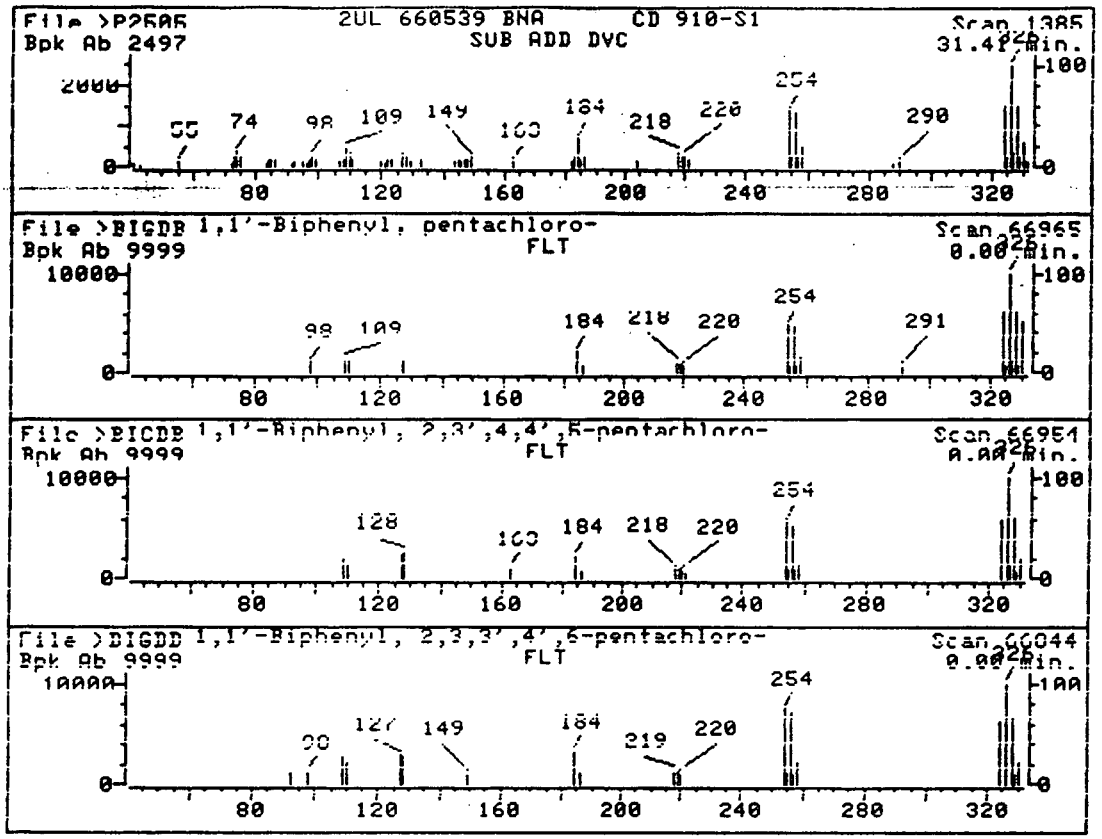
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	88*	25429292	66963	"BIGDB	85	130	3	0	75	2	65		50	
2.	86*	38380039	66844	"BIGDB	107	95	3	0	89	10	59		71	
3.	83*	25429292	66962	"BIGDB	89	115	3	0	78	7	54		55	
4.	83*	38380017	66843	"BIGDB	87	114	3	0	88	7	54		53	
5.	79*	32598144	66842	"BIGDB	94	102	3	0	98	13	43		60	



1. 1,1'-Biphenyl, 2,3',4,4',5-pentachloro- 324 C12H5Cl5
2. 1,1'-Biphenyl, 2,3',4,5,5'-pentachloro- 324 C12H5Cl5
3. 1,1'-Biphenyl, 2,3,3',4',6-pentachloro- 324 C12H5Cl5
4. 1,1'-Biphenyl, pentachloro- 324 C12H5Cl5
5. 1,1'-Biphenyl, pentachloro- 324 C12H5Cl5

Sample file: >P2505 Spectrum #: 1355
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

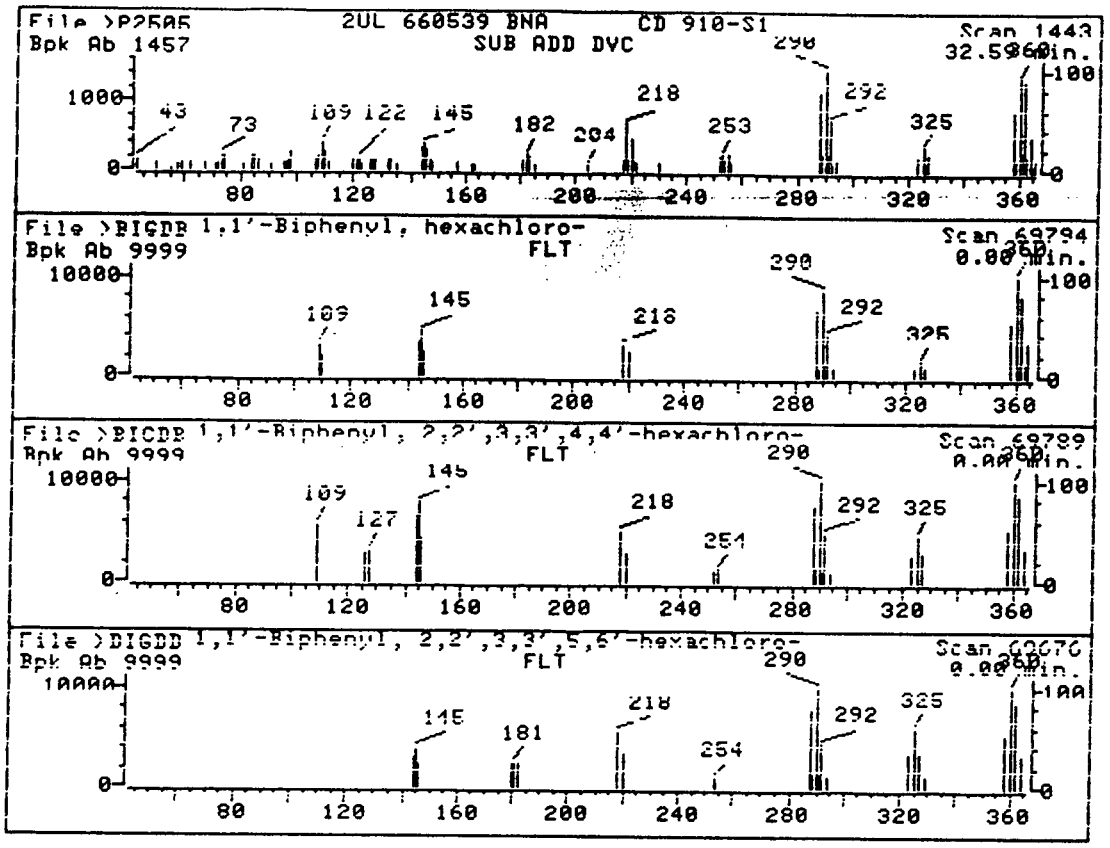
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	96*	31508006	66954	"BIGDB	131	51	2	0	79	6	68		96	
2.	96*	68194127	66850	"BIGDB	134	68	3	0	85	3	72		94	
3.	95*	38380039	66844	"BIGDB	148	54	3	0	75	15	64		96	
4.	95*	25429292	66965	"BIGDB	135	49	2	0	81	12	64		96	
5.	93*	25429292	66841	"BIGDB	124	67	3	0	79	3	68		89	



1. 1,1'-Biphenyl, pentachloro- 324 C12H5Cl5
2. 1,1'-Biphenyl, 2,3',4,4',5-pentachloro- 324 C12H5Cl5
3. 1,1'-Biphenyl, 2,3,3',4',6-pentachloro- 324 C12H5Cl5
4. 1,1'-Biphenyl, 2,2',4,4',5-pentachloro- 324 C12H5Cl5
5. 1,1'-Biphenyl, pentachloro- 324 C12H5Cl5

Sample file: >P2505 Spectrum #: 1385
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	99*	25429292	66965	"BIGDB	165	19	2	0	94	6	68	99		
2.	96*	31508006	66954	"BIGDB	149	33	3	0	94	3	72	96		
3.	96*	38380039	66844	"BIGDB	150	52	3	0	73	6	68	96		
4.	95*	38380017	66843	"BIGDB	134	67	3	0	69	9	68	94		
5.	89*	25429292	66841	"BIGDB	116	75	3	0	88	3	66	78		



1. 1,1'-Biphenyl, hexachloro- 358 C12H4Cl6
2. 1,1'-Biphenyl, 2,2',3,3',4,4'-hexachloro- 358 C12H4Cl6
3. 1,1'-Biphenyl, 2,2',3,3',5,6'-hexachloro- 358 C12H4Cl6
4. 1,1'-Biphenyl, 2,2',3,4',5',6-hexachloro- 358 C12H4Cl6
5. 1,1'-Biphenyl, 2,2',3,4,4',5'-hexachloro- 358 C12H4Cl6

Sample file: >P2505 Spectrum #: 1443
Search speed: 1 Tilting option: N No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	99*	26601649	69794	"BIGDB	154	65	2	0	82	6	68		99	
2.	96*	38380073	69789	"BIGDB	141	90	3	0	92	0	72		96	
3.	96*	52744135	69676	"BIGDB	132	96	3	0	82	4	72		94	
4.	96*	38380040	69670	"BIGDB	130	97	3	0	92	0	72		94	
5.	96*	35065282	69786	"BIGDB	130	101	3	0	88	4	72		94	

660540

CD910-S1

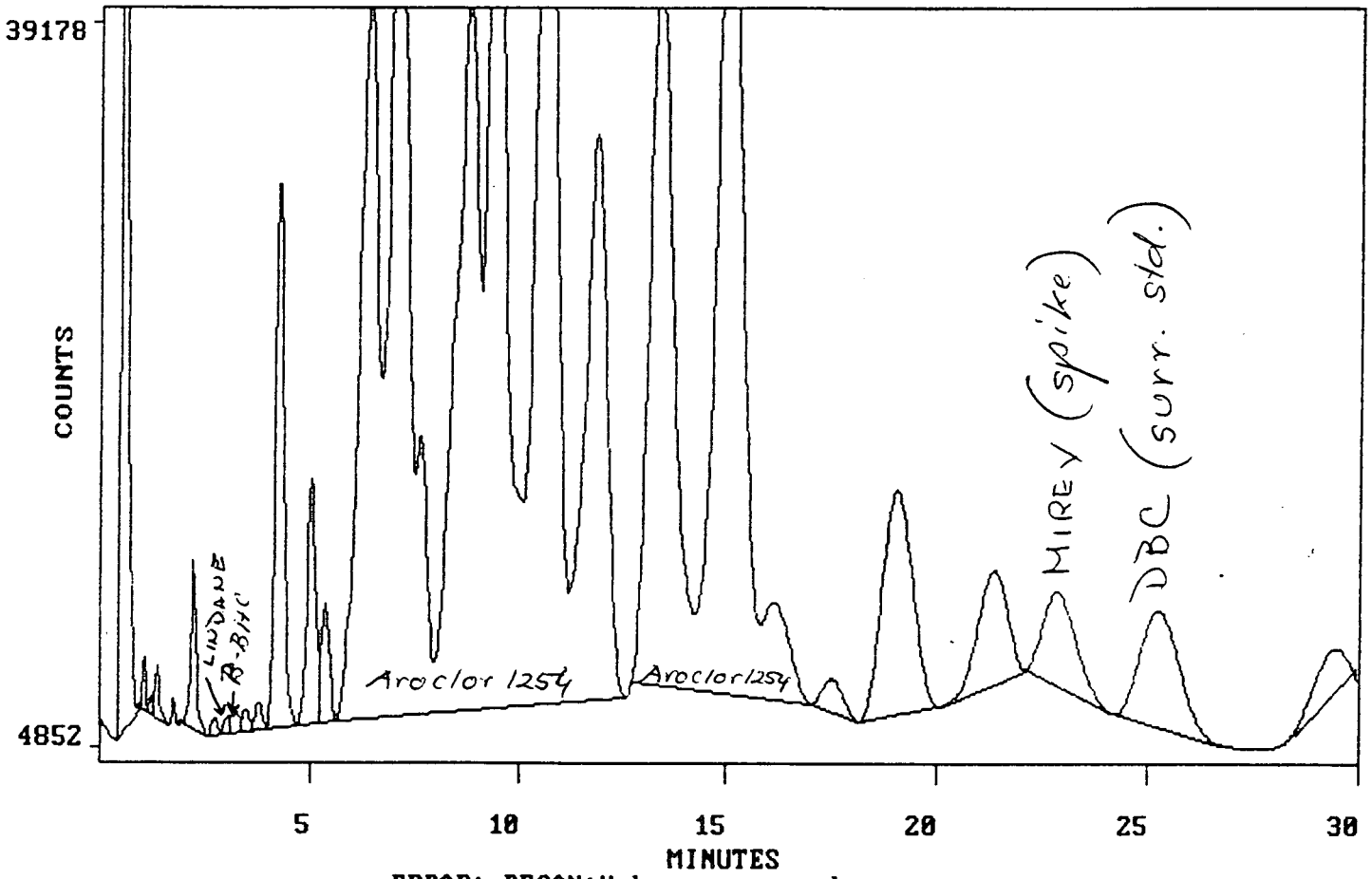
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:14:57:44 Date:MON 13 OCT 86

Time:16:19:02 Date:TUE 07 OCT 86
Method:ARO1254C

FILE: PEST2266 SCALE: 25 RANGE (MIN.): 0.03 TO 30.00



ERROR: RECON:Unknown command

Channel #.....REINT Time:14:56:05 Date.MON 13 OCT 86

Sample name .....
Data file FEST2266
Method name.....AR01254C

Author.....LAL
Instrument.....Tracor 550 - ECD
Column.....1.5% SP-2250/1.95% SP-2401 on 100/120
Notes.....Reintegration of Aroclors

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....16:19:02 Acq date....TUE 07 OCT 86
Start PW .....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..21
Vol Inj. ....5.0 ul Sample amount..1.000
Conv factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.578			25.133	4838238	877070	BE
2	1.090			0.068	13165	2493	BV
3	1.264			0.020	3802	838	VV
4	1.397			0.082	15741	2433	VB
5	2.237			0.369	70966	7875	BB
6	2.742			0.041	7907	820	BV
7	3.080		LINDANE	0.040	7748	782	VV
8	3.273		A-BHC	0.064	12240	967	VV
9	3.489			0.061	11796	1081	VV
10	3.787			0.082	15796	1324	VV
11	4.250		Aldrin ? → unknown	1.871	~300 000/100 (subtracted Ar1254) ~~360185/100~~	26095	VV
12	5.007		AROCLOR1254	0.865	166431	11616	VV
13	5.350			0.381	73348	5602	VB
14	9.413			45.317	8723570	60026	BE
15	15.042			17.657	3398959	41827	BB
16	17.513			0.260	50086	1526	BB
17	19.064			2.696	519051	10487	BB
18	21.355			1.330	255936	5270	BB
19	22.860			1.254	241370	4372	BB
20	25.265			1.840	354128	5375	BB
21	29.545			0.571	109828	1790	BB
TOTALS							

185

660540

CD910-S1

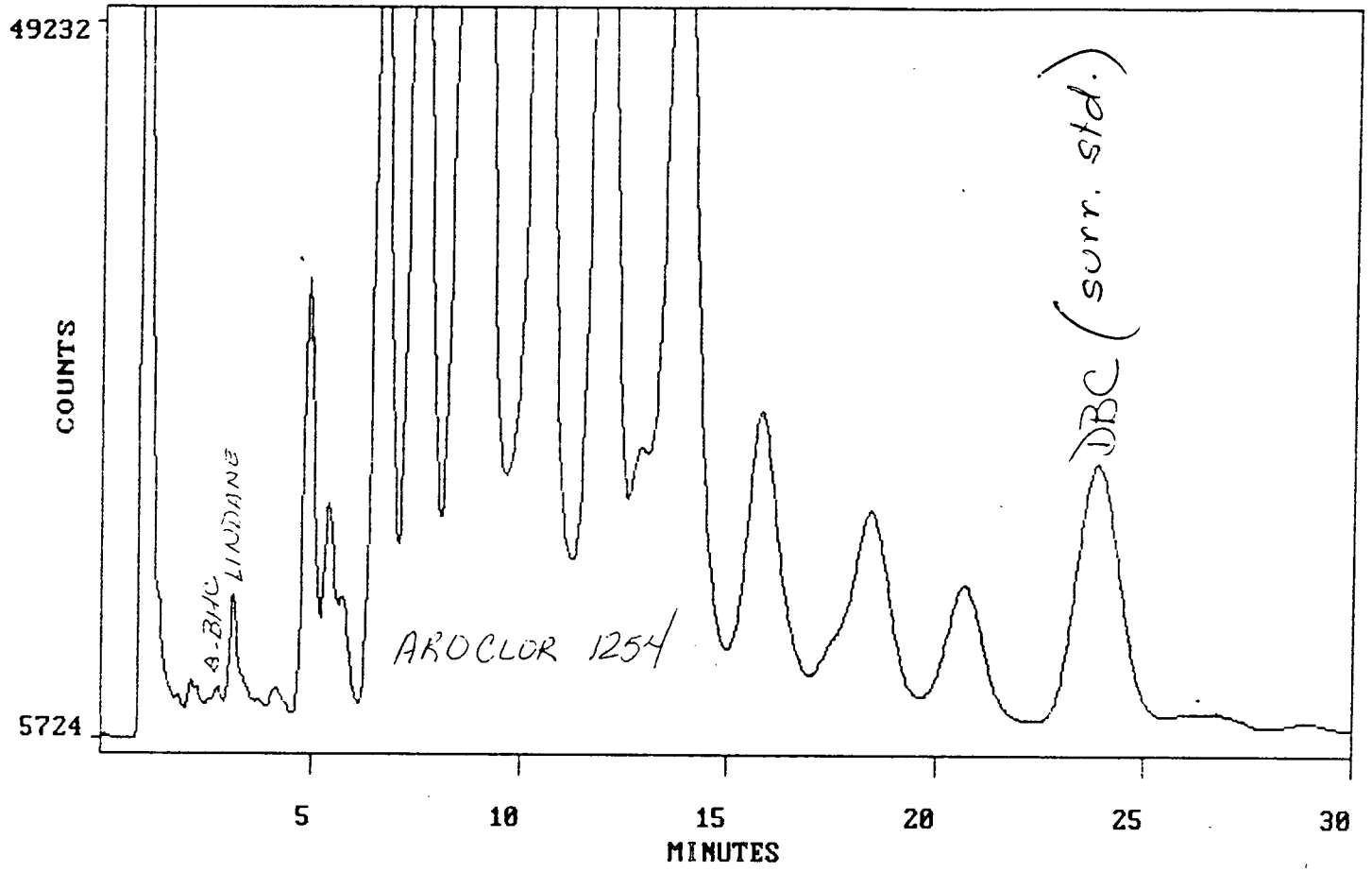
CONFIRMATORY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time 20:19:20 Date THU 09 OCT 86

Time 18:55:21 Date THU 09 OCT 86
Method PEST2

FILE: PEST2309 SCALE: 20 RANGE (MIN.): 0.03 TO 30.00



Channel #.....4 Time:19:26:08 Date:THU 09 OCT 86
Run #4 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2309
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....~~E~~ Y-2 3% SP-2100 on 100/120 SUPELCOPORT
Notes.....~~Primary~~ SECONDARY Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....18:55:21 Acq. date....THU 09 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..26
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

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METHOD NOT CALIBRATED!

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AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name		Area %	Area	Peak Ht.	BL	
1	0.098				0.003	1069	104	BB	
2	1.100				32.640	11245397	869548	BB	
3	1.846				0.008	2665	476	BB	
4	2.178				0.076	26034	1767	BV	
5	2.598				0.016	5475	632	VV	
6	2.789		B-BHC		0.049	16891	1392	VV	
7	3.158		LINDANE		0.344	118493	7035	VE	
8	3.736				0.022	7476	473	EV	
9	4.164				0.085	29180	1501	VB	
10	4.914				1.407	484619	26562	BV	
11	5.398				0.686	236413	12817	VV	wrong RT
12	5.716		Unknown	*	0.344	118677	7170	VV	* Aldrin RT 270
13	6.671				4.474	1541536	58033	VV	
14	7.584				6.884	2371839	70936	VV	
15	8.673				4.177	1438967	58694	VV	140mg/l
16	9.061				8.100	2790622	83931	VV	Aldrin *
17	10.488				9.680	3334943	80912	VV	2100
18	11.983				8.628	2972588	74155	VV	
19	12.911				1.243	428267	16415	VV	
20	13.834				9.503	3274004	62235	VV	

181

22	18.435					
			1.629	561332	8408	VV
23	20.677		3.438	1184582	15830	VE
24	23.866	DBC	0.189	64987	763	EB
25	26.464					
			0.052	17992	345	BB
26	28.947					
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TOTALS			100.000	34452495		

III. 2. Reporting Package
NJ DEP I.D. # S-2

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Lab No. 660542
Type: Misc. - Tier I
Point: Soil #2
Date Collected: 9/11/86
Date Received: 9/12/86
Collected By: CL 99

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Scan No.	Cas Number	Compound	ug/kg
	74-87-3	Chloromethane	10U
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl chloride	10U
	75-00-3	Chloroethane	10U
127	75-09-2	Methylene chloride	5000
	75-69-4	Trichlorofluoromethane	10U
201	75-35-4	1,1-dichloroethene	38
	75-34-3	1,1-dichloroethane	10U
252	156-60-5	Cis/Trans-1,2-dichloroethene	100
266	67-66-3	Chloroform	19
	107-06-2	1,2-dichloroethane	10U
322	71-55-6	1,1,1-Trichloroethane	74B
	56-23-5	Carbon tetrachloride	10U
	75-27-4	Bromodichloromethane	10U
	79-34-5	1,1,2,2-Tetrachloroethane	10U
	70-87-5	1,2-dichloropropane	10U
	10061-02-6	Trans-1,3-dichloropropene	10U
409	79-01-6	Trichloroethene	79
	124-48-1	Dibromochloromethane	10U
	79-00-5	1,1,2-trichloroethane	10U
426	71-43-2	Benzene	3J
	10061-01-5	cis-1,3-Dichloropropene	10U
	110-75-8	2-chloroethylvinyl ether	10U
	75-25-2	Bromoform	10U
	127-10-4	Tetrachloroethene	10U
595	106-88-3	Toluene	5J
	106-90-7	Chlorobenzene	10U
	100-41-4	Ethylbenzene	10U
	541-73-1	1,2-Dichlorobenzene	10U
	95-50-1	1,3-Dichlorobenzene	10U
	106-46-1	1,4-Dichlorobenzene	10U

Date Reported: 10/15/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample # SOil #2

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob. FIT	% Prob. RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown (Carbon Dioxide)			12	320B
2.		Unknown			226	110
3.	560-21-4	Trimethylpentane	89	87	576	30
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J Mixla

H2M

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

Lab Name: H2M Labs
Sample Lab No. 660543 - S-2
Concentration: Low

Date Extracted: 9/24/86
Date Analyzed: 10/6/86
Dil. Factor: 1:2

Semi-Volatile Compounds

C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan No.
65-75-9	N-Nitrosodimethylamine	20000U	83-32-9	Acenaphthene	20000U	
108-95-2	Phenol	20000U	51-28-5	2,4-Dinitrophenol	20000U	
62-53-3	Aniline	20000U	100-02-7	4-Nitrophenol	20000U	
111-44-4	bis(2-Chloroethyl)Ether	20000U	121-14-2	2,4-Dinitrotoluene	20000U	
95-57-8	2-Chlorophenol	20000U	606-20-2	2,6-Dinitrotoluene	20000U	
541-73-1	1,3-Dichlorobenzene	20000U	84-66-2	Diethylphthalate	20000U	
106-46-7	1,4-Dichlorobenzene	20000U	7005-72-3	4-Chlorophenyl-phenylether	20000U	
95-50-1	1,2-Dichlorobenzene	20000U	86-73-7	Fluorene	20000U	
39638329	bis(2-chloroisopropyl)ether	20000U	534-52-1	4,6-Dinitro-2-Methylphenol	20000U	
621-64-7	N-Nitroso-Di-n-Propylamine	20000U	86-30-6	N-Nitrososdiphenylamine (1)	20000U	
67-72-1	Hexachloroethane	20000U	101-55-3	4-Bromophenyl-phenylether	20000U	
98-95-3	Nitrobenzene	20000U	118-74-1	Hexachlorobenzene	20000U	
78-59-1	Isophorone	20000U	87-86-5	Pentachlorophenol	20000U	
88-75-5	2-Nitrophenol	20000U	85-01-8	Phenanthrene	3000J	1103
105-67-9	2,4-Dimethylphenol	20000U	120-12-7	Anthracene	20000U	
111-91-1	bis(2-Chloroethoxy)Methane	20000U	84-74-2	Di-n-Butylphthalate	20000U	
120-83-2	2,4-Dichlorophenol	20000U	206-44-0	Fluoranthene	20000U	
120-82-1	1,2,4-Trichlorobenzene	20000U	92-87-5	Benzidine	60000U	
91-20-3	Naphthalene *	3100J	129-00-0	Pyrene	20000U	
87-68-3	Hexachlorobutadiene	20000U	85-68-7	Butylbenzylphthalate	20000U	
59-50-7	4-Chloro-3-Methylphenol	20000U	91-94-1	3,3'-Dichlorobenzidine	20000U	
77-47-4	Hexachlorocyclopentadiene	20000U	56-55-3	Benzo(a)Anthracene	20000U	
88-06-2	2,4,6-Trichlorophenol	20000U	117-81-7	bis(2-Ethylhexyl)Phthalate	20000U	
91-58-7	2-Chloronaphthalene	20000U	218-01-9	Chrysene	20000U	
131-11-3	Dimethyl Phthalate	20000U	117-84-0	Di-n-Octyl Phthalate	20000U	
208-96-8	Acenaphthylene	20000U	205-99-2	Benzo(b)Fluoranthene	20000U	
			207-08-9	Benzo(k)Fluoranthene	20000U	
			50-32-8	Benzo(a)Pyrene	20000U	
			193-39-5	Indeno(1,2,3-cd)Pyrene	20000U	
			53-70-3	Dibenzo(a,h)Anthracene	20000U	
			191-24-2	Benzo(g,h,i)Perylene	20000U	

* Scan No. 616

(1) Cannot be separated from diphenylamine

Date Reported: 10/16/86

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* *
****
S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: S-2

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob FIT|RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No compounds found > 10%			
2.		internal standards			
3.					
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H2M

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 660544
Date Extracted: 9/18/86
Date Analyzed: 10/7/86
Type: Misc. - Tier I
Point: S-2
Collected By: CL 99

ANALYSIS FOR PESTICIDES/PCB's

C.A.S. No.	Compound	ug/kg
319-84-6	Alpha-BHC	8U
319-87-7	Beta-BHC	470
319-86-8	Delta-BHC	170B
58-89-9	Gamma-BHC (Lindane)	8U
76-44-8	Heptachlor	40U
309-00-2	Aldrin	100U
1024-57-3	Heptachlor Epoxide	1000U
959-98-8	Endosulfan I	200U
68-57-1	Dieldrin	1000U
72-55-9	4,4'-DDE	200U
72-20-8	Endrin	200U
33213-65-9	Endosulfan II	200U
72-54-8	4,4'-DDD	200U
1031-07-8	Endosulfan Sulfate	200U
50-29-3	4,4'-DDT	1000U
72-43-5	Methoxychlor	80U
53494-70-5	Endrin Ketone	16U
57-74-9	Chlordane	200U
8001-35-2	Toxaphene	200U
12674-11-2	Aroclor 1016	200U
11104-28-2	Aroclor 1221	200U
11141-16-5	Aroclor 1232	200U
53469-21-9	Aroclor 1242	200U
12672-29-6	Aroclor 1248	200U
11097-69-1	Aroclor 1254	190000
11096-82-5	Aroclor 1260	1000U

Vi = Volume of extract injected (uL)
Ws = Weight of sample extracted (g)
Vs = Ws = 9.81 g Vt = 10 mL
Date Reported: 10/17/86

Vs = Volume of water extracted (mL)
Vt = Volume of Total extract (mL)
Vi = 5 uL

****
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* *
****
S.C. McLendon, P.E.
Laboratory Director

Lab Name : H2M LABS

Sample Number
660544

NJDEP #CD910-S2
Run 2268

ORGANICS ANALYSIS DATA SHEET

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Probability FIT	% Probability REFIT	RT or Scan Number	Estimated Concentration (ug/L or ug/kg)
1.		Unknown			1.38	54
2.		Unknown			1.75	190
3.		Unknown			2.23	190
4.		Unknown			2.43	48
5.		Unknown			2.74	47
6.		Unknown			17.67	56
7.		Unknown			19.26	410
8.		Unknown			20.49	150
9.		Unknown			21.52	120
10.		Unknown			4.39	410
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Date Reported: 10-16-86

S.C. McLendon, P.E.
Laboratory Director

H2M
Environmental Engineers & Scientists
HOLZMACHER, McLENDON and MURRELL, P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

WATER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

LAB NO. 660545
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.
65 PROSPECT ST.
TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 9/11/86 DATE RECEIVED - 9/12/86

NJDEP SAMPLE #CD 910-S2
NJDEP SAMPLE POINT I.D. #SOIL 2
SOIL SAMPLE

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<12.9 N	SELENIUM	1.70 S N
ARSENIC	15.9	SILVER	2.40 N
BERYLLIUM	1.10	THALLIUM	<2.20 N
CADMIUM	3.20	ZINC	64.3 N
CHROMIUM	15.1	PHENOLS	0.07
COPPER	62.4	CYANIDE	<4.70
LEAD	581.	TOTAL SOLIDS	93.0 %
MERCURY	1.00 N		
NICKEL	16.3		

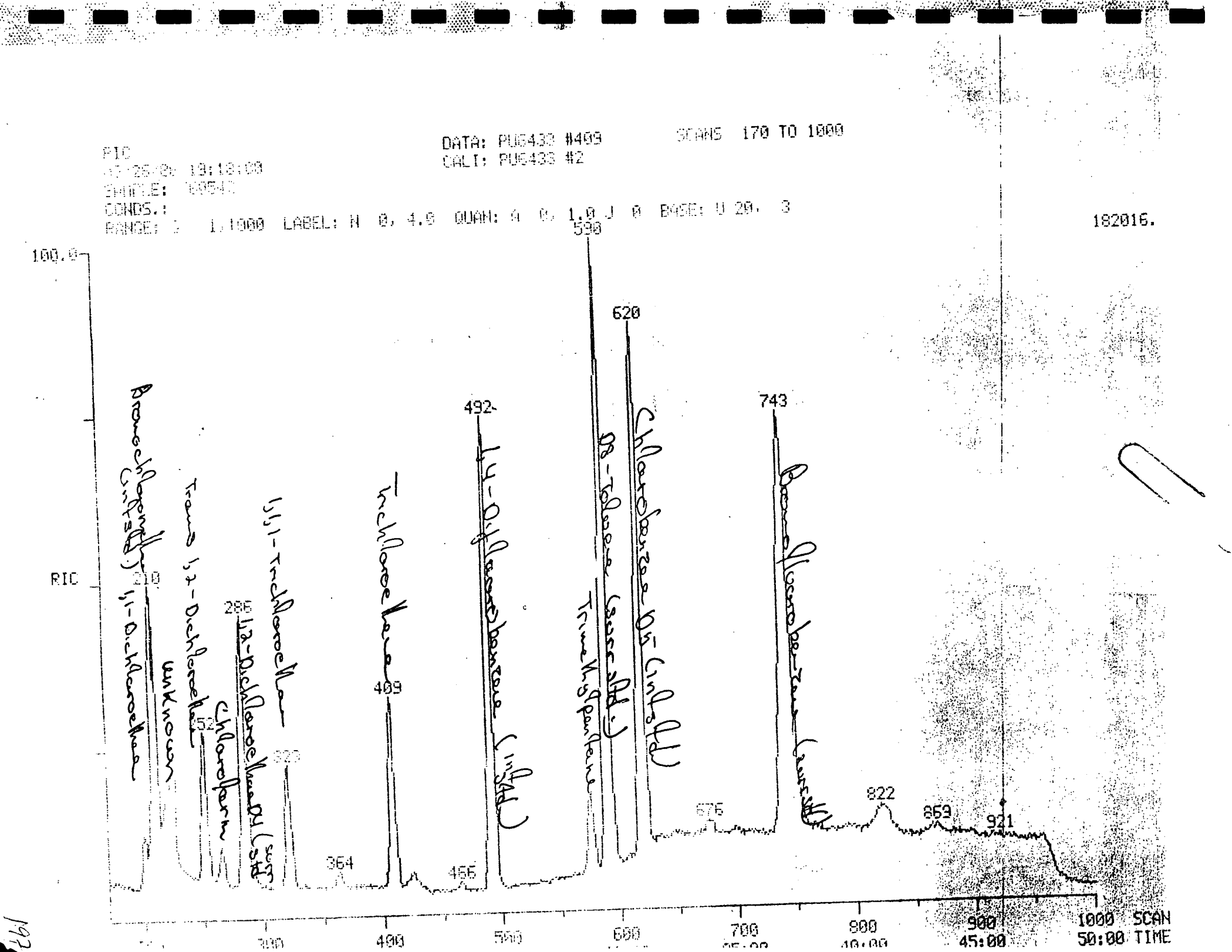
ALL RESULTS REPORTED IN mg/kg DRY WEIGHT

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY $ (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 10/ 8/86

S. C. McLENDON, P.E., LABORATORY DIRECTOR

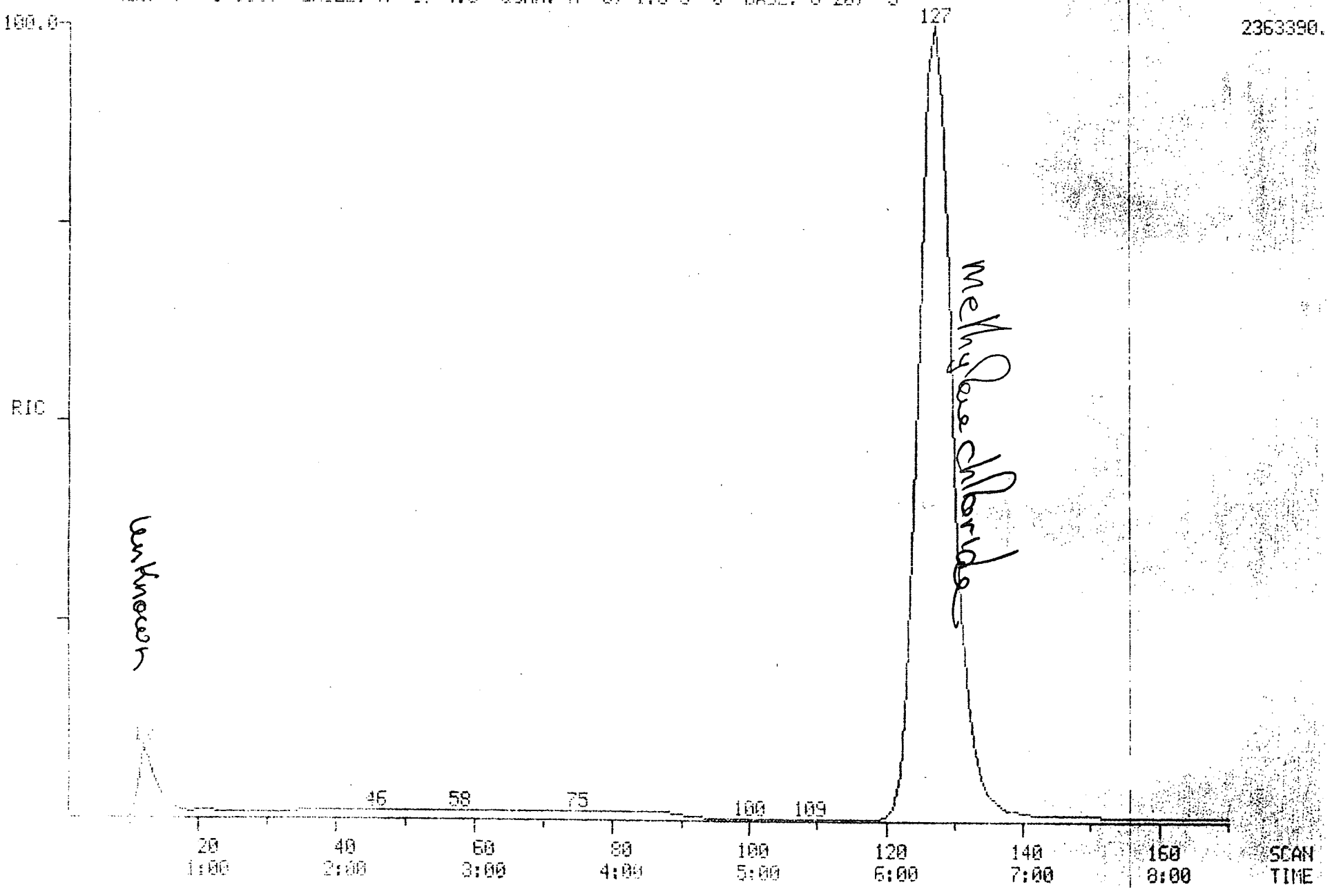
THE LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.



DATA: PU6433 #409
CALI: PU6433 #2
SCANS 170 TO 1000
PIC
SAMPLE:
CONDS.:
RANGE: 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
182016.
100.0
RIC
590
620
492
743
210
286
409
352
323
364
466
676
822
869
921
300
400
500
600
700
800
900
1000 SCAN
45:00
50:00 TIME
Bromochloroethane (int std)
1,1-Dichloroethane
unknown
Trans 1,2-Dichloroethane
Chloroform
1,2-Dichloroethane D4 (surr std)
1,1,1-Trichloroethane
Trichloroethene
1,4-Difluorobenzene (int std)
Trimethylpentane
D8-Toluene (surr std)
Chlorobenzene D5 (int std)
Bromofluorobenzene (surr std)

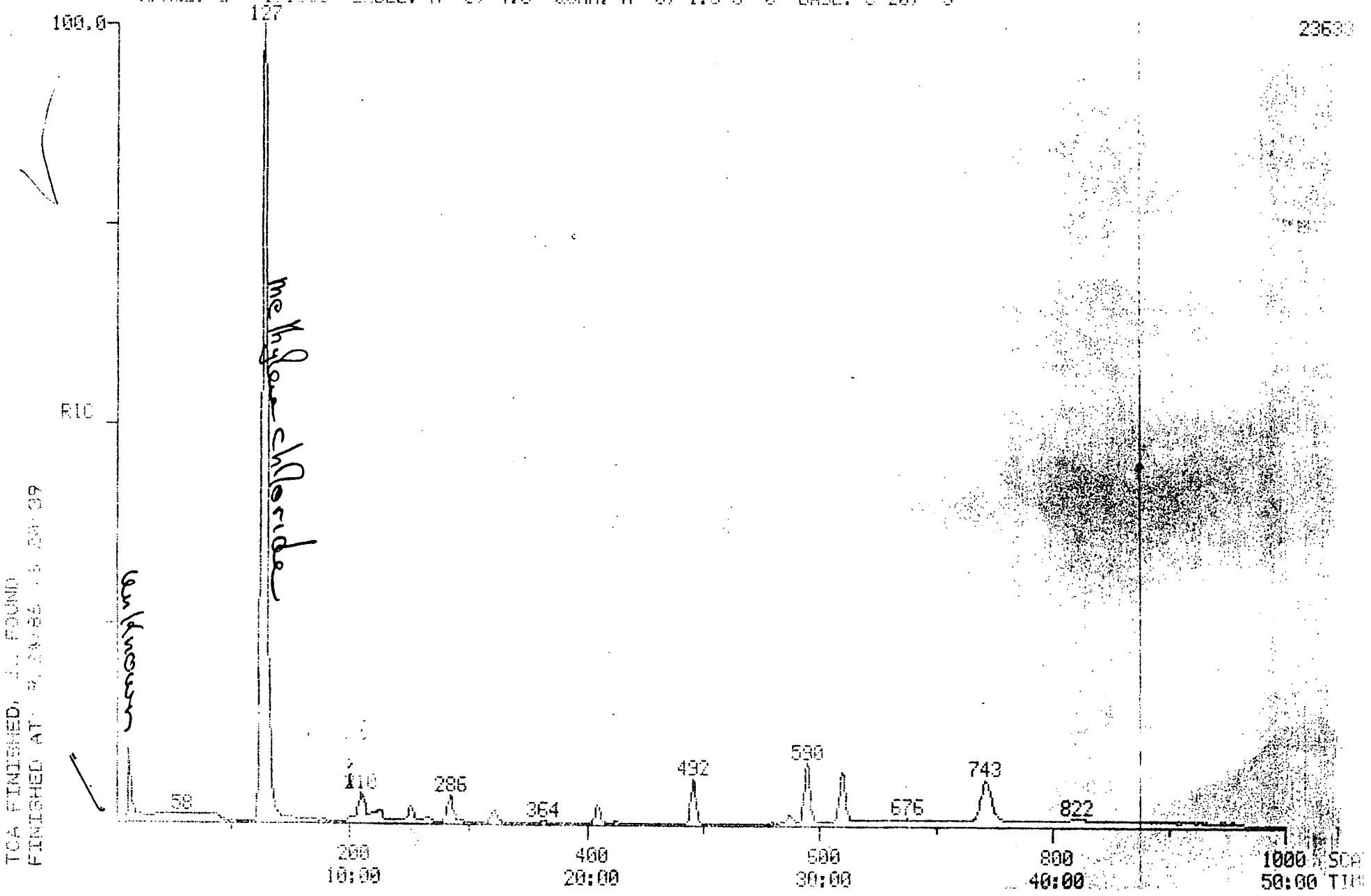
RIC
03/26/86 19:18:00
SAMPLE: 550542
COMMS.:
RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6433 #409 SCANS 1 TO 170
CALI: PU6433 #2



RIC
16/86 19:18:00
SAMPLE: 660542
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU5433 #1 SCANS 1 TO 1000
CALI: PU5433 #2



QUANTITATION REPORT FILE: PU6433

DATA: PU6433.TI
09/26/86 19:18:00
SAMPLE: 860542
CONDS:
SUBMITTED BY: NJDEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D8-TOLUENE(SURR. STD)
48	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot

200

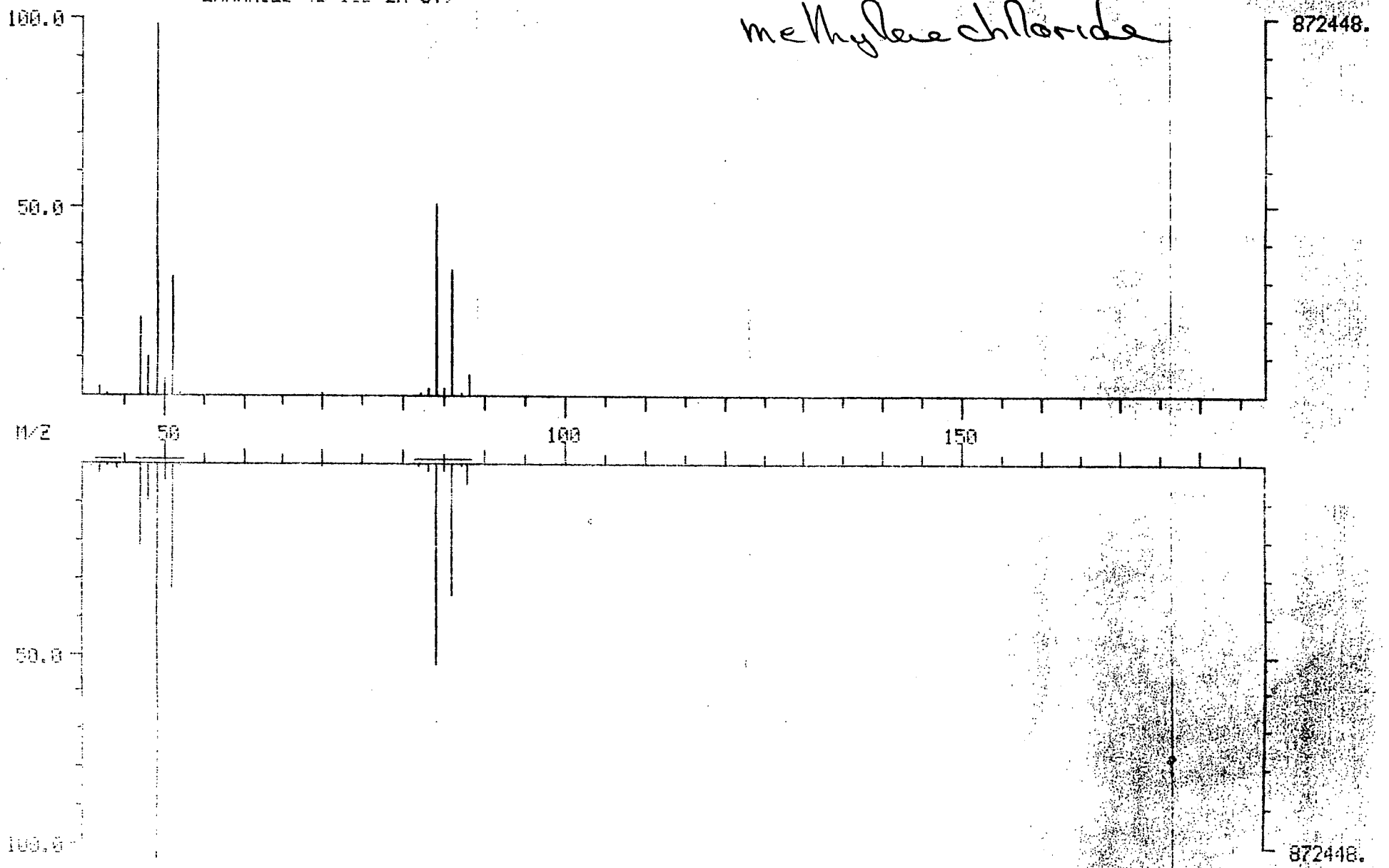
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	84	127	6:21	1	0.605	A BB	2647650.	5969.010	NG	67.04
8	43	150	7:30	1	0.714	A BB	19833.	119.411	NG	1.34
9	NOT FOUND									
10	96	201	10:03	1	0.957	A BB	13586.	46.164	NG	0.52
11	NOT FOUND									
12	96	252	12:36	1	1.200	A BB	43977.	122.340	NG	1.37
13	83	266	13:18	1	1.267	A BB	18361.	22.818	NG	0.26
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
17	NOT FOUND									
18	NOT FOUND									
19	114	492	24:36	19	1.000	A BB	272821.	250.000	NG	2.81
20	43	293	14:39	19	0.596	A*VB	11937.	47.160	NG	0.53
21	97	322	16:06	19	0.654	A BB	42609.	89.347	NG	1.00
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	130	409	20:27	19	0.831	A BB	46935.	94.525	NG	1.06
27	NOT FOUND									
28	NOT FOUND									
29	78	426	21:18	19	0.866	A BB	6922.	3.865	NG	0.04
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	117	620	31:00	33	1.000	A BB	227003.	250.000	NG	2.81
34	43	511	25:33	33	0.824	A VV	3966.	656.681	NG	7.38
35	43	553	27:39	33	0.892	A BB	2843.	68.934	NG	0.77
36	NOT FOUND									
37	NOT FOUND									
38	92	595	29:45	33	0.960	A BB	5275.	5.834	NG	0.07
39	NOT FOUND									
40	106	676	33:48	33	1.090	A BB	2376.	4.274	NG	0.05
41	NOT FOUND									
42	NOT FOUND									
43	106	797	39:51	33	1.285	A BB	778.	379.110	NG	4.26
44	NOT FOUND									
45	NOT FOUND									
46	NOT FOUND									
47	100	590	29:30	33	0.952	A BB	137464.	234.561	NG	2.63
48	95	743	37:09	33	1.198	A BB	204752.	238.605	NG	2.61

DUAL MASS SPECTRUM
09/26/06 13:18:00 + 6:21
SAMPLE: 660542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 #127
CALI: PU5433 #2

BASE M/Z: 49/ 49
RIC: 2285560./ 2363330.

methylene chloride

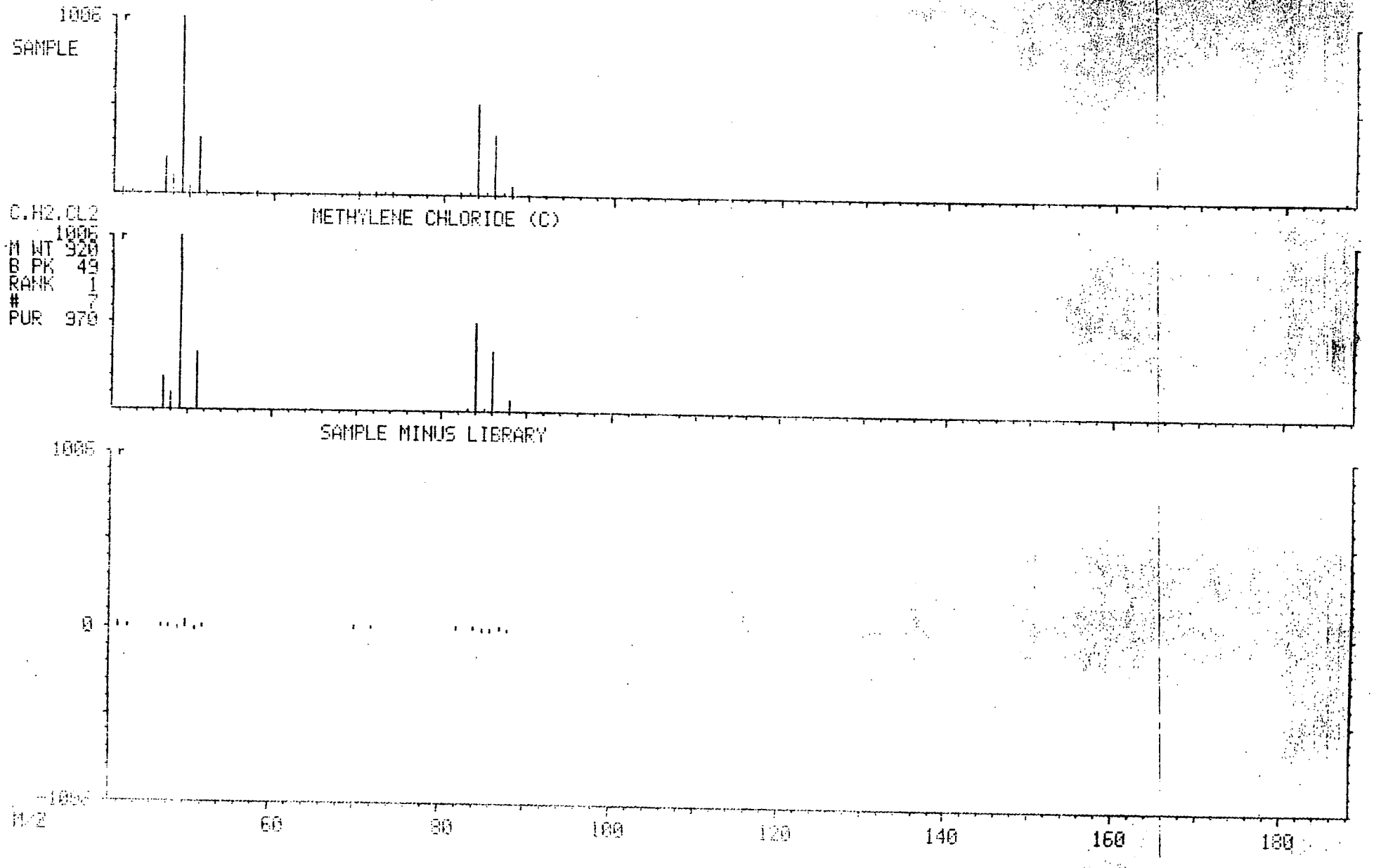


262

LIBRARY SEARCH
09/26/86 13:18:00 + 6:21
SAMPLE: 660542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 # 127
CALI: PU6433 # 2

BASE M/Z: 49
RIC: 2285560.



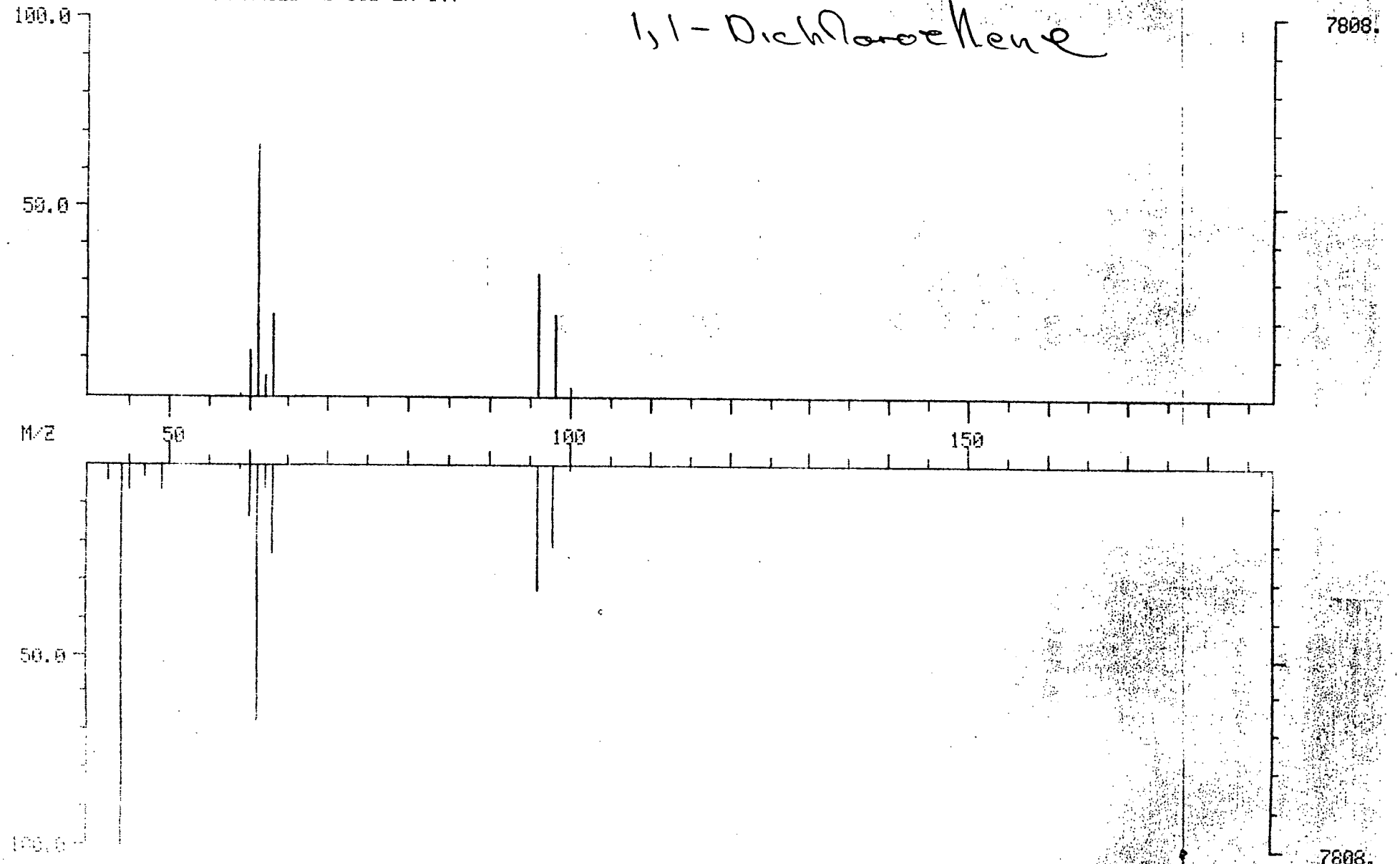
26

DUAL MASS SPECTRUM
09/26/86 13:10:00 + 10:03
SAMPLE: 660542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 #201
CALI: PU6433 #2

BASE M/Z: 61/ 44
RIC: 12607./ 22527.

1,1-Dichloroethene

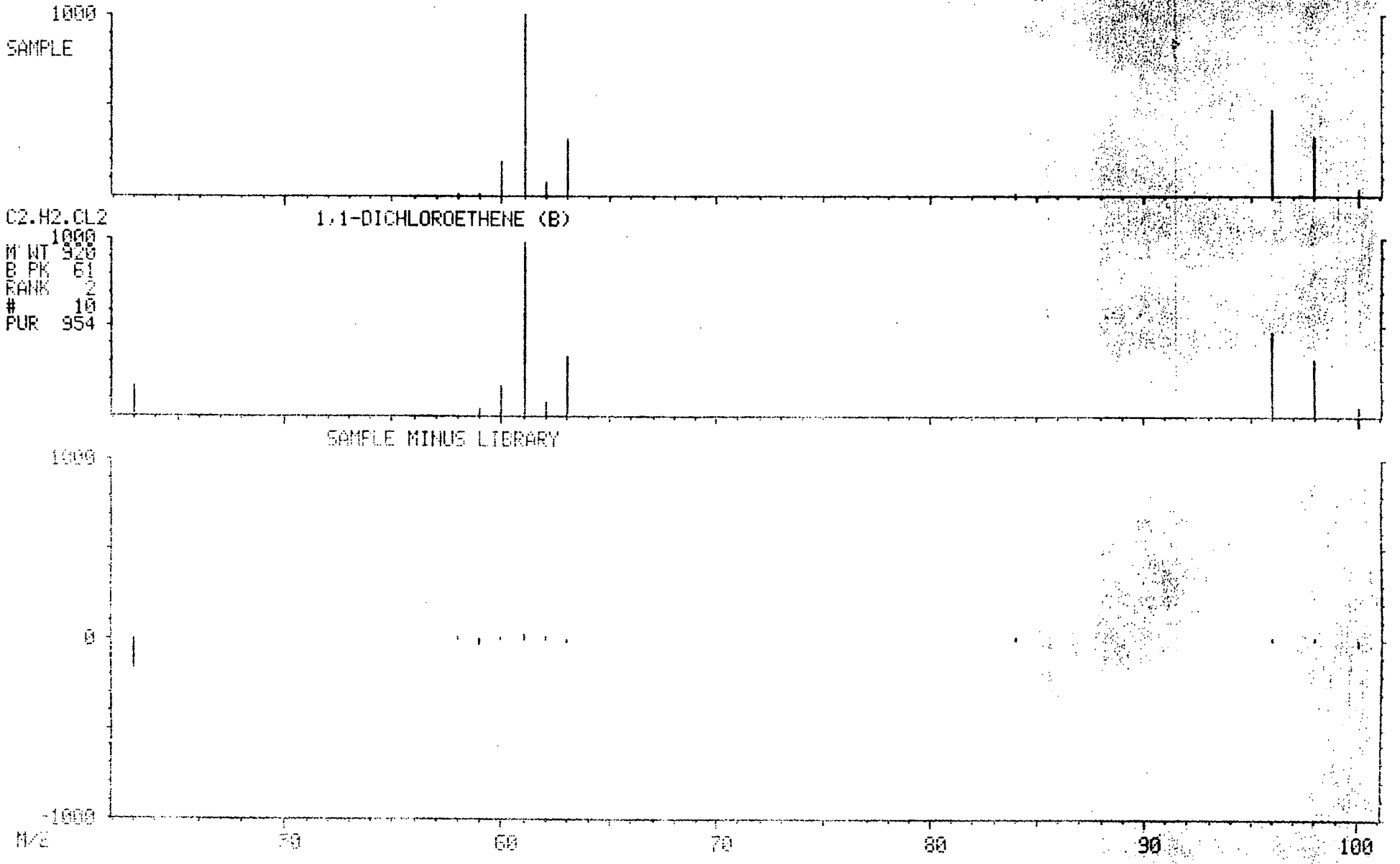


20

LIBRARY SEARCH
09/25/86 19:18:08 + 10:03
SAMPLE: 650542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 # 201
CALI: PU6433 # 2

BASE M/Z: 61
RIC: 12607.



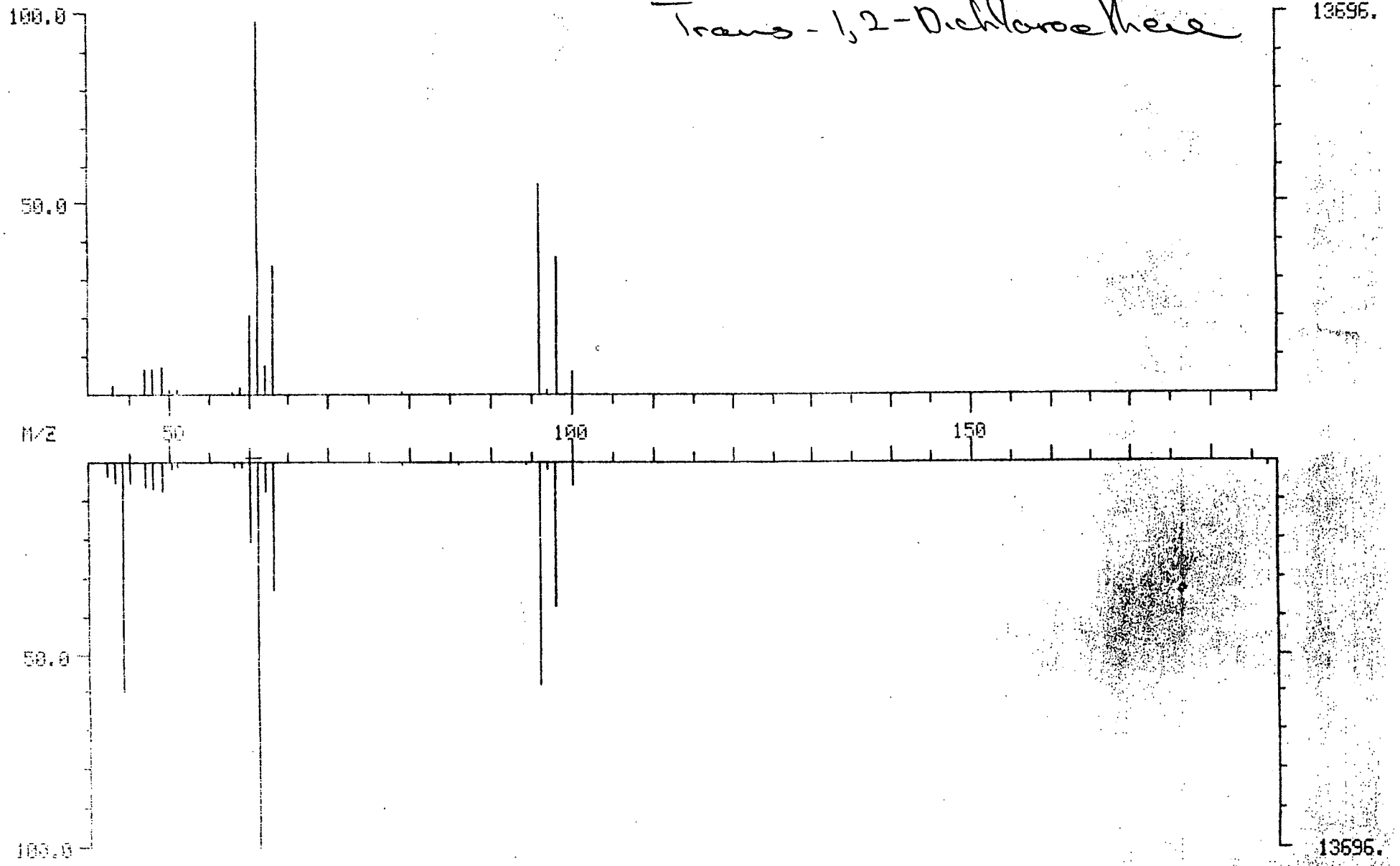
285

DUAL MASS SPECTRUM
09/26/86 19:18:00 + 12:36
SAMPLE: 660542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 #252
CALI: PU6433 #2

BASE M/Z: 61/ 61
RIC: 39359./ 50303.

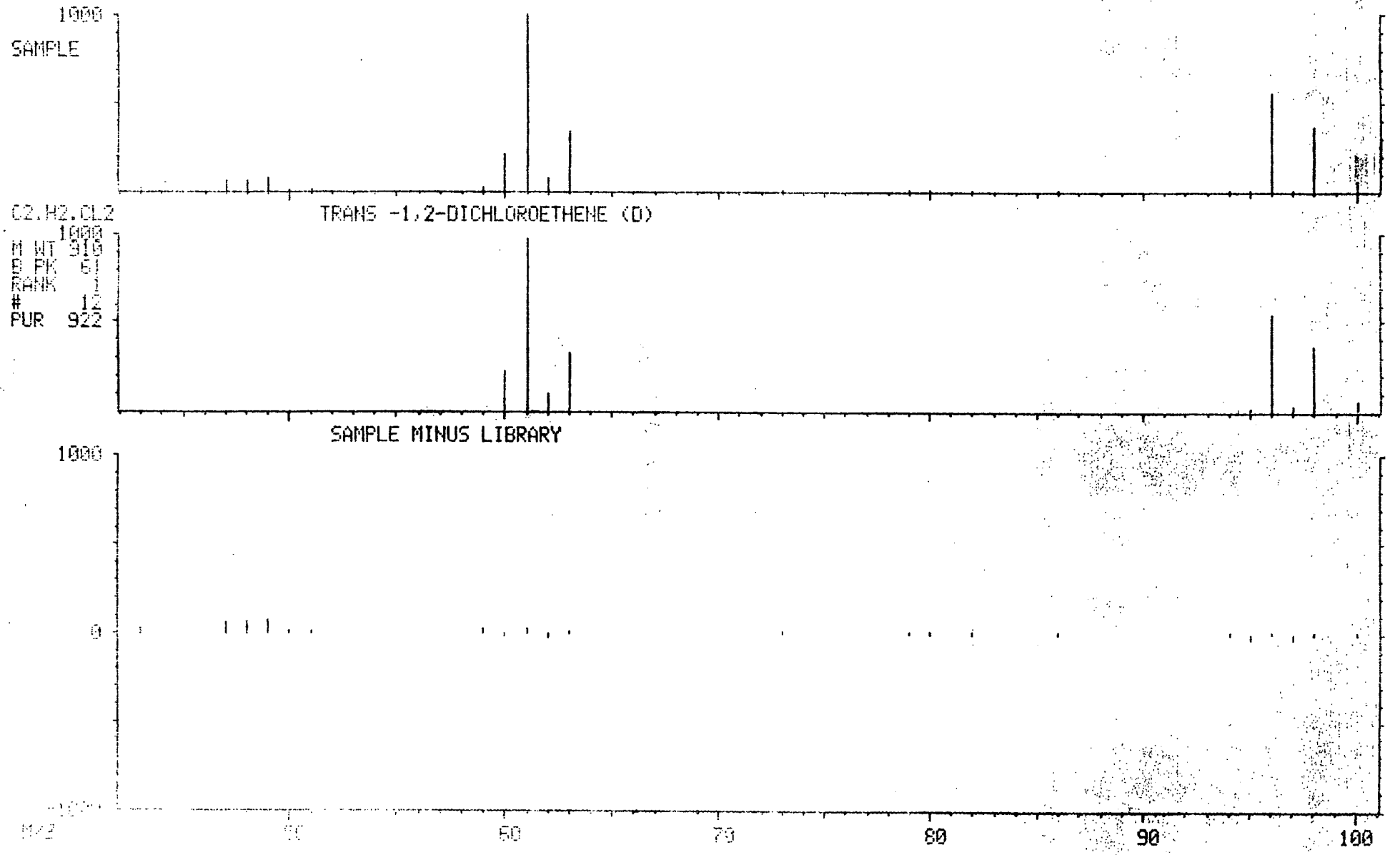
Trans-1,2-Dichloroethene



LIBRARY SEARCH
03/25/86 19:18:03 + 12:36
SAMPLE: PE0942
OPNOS.:
ENHANCED (S 158 2N 0T)

DATA: PU6433 # 252
CALI: PU6433 # 2

BASE M/Z: 61
RIC: 39295.



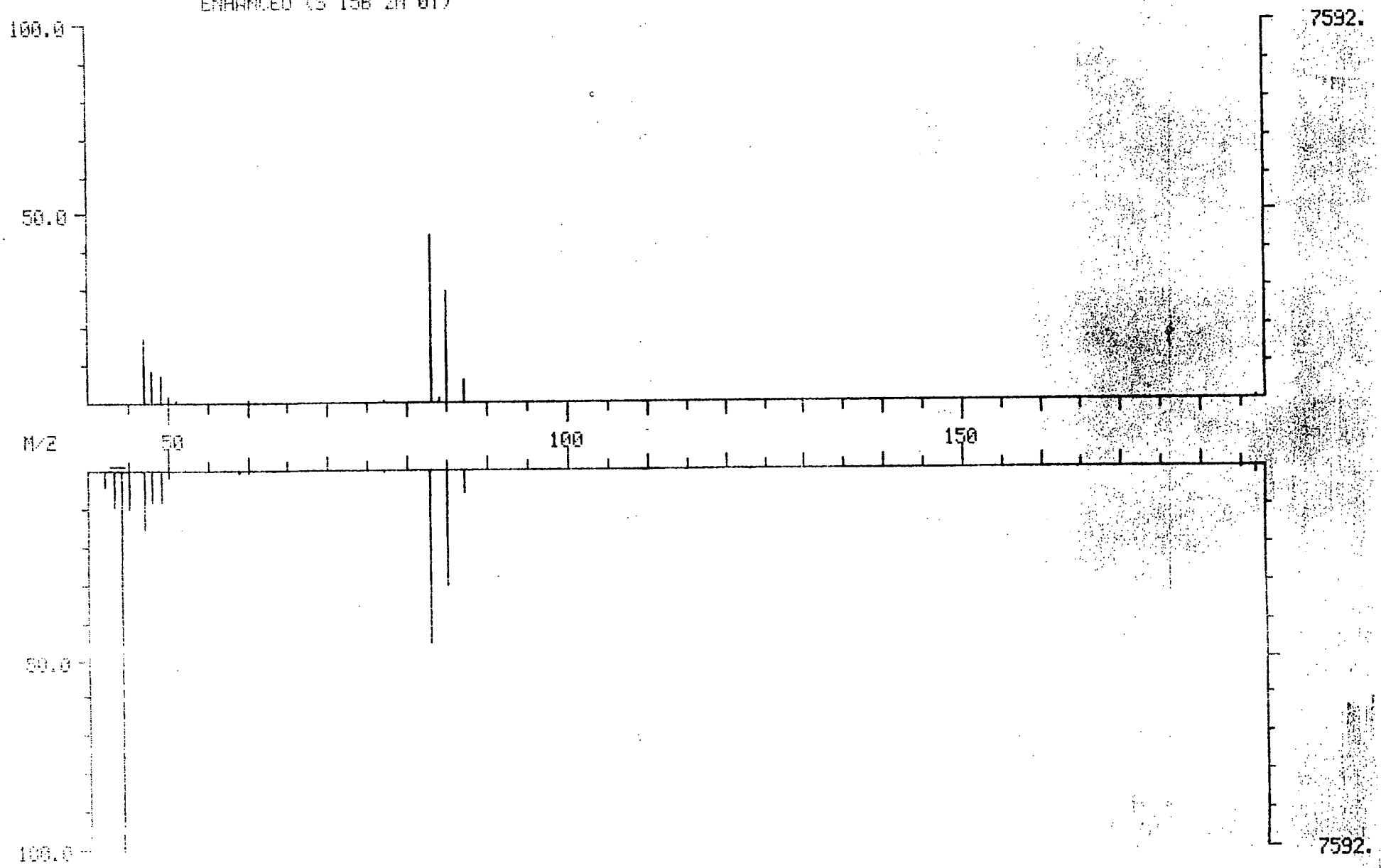
207

DUAL MASS SPECTRUM
09/26/86 19:18:08 + 13:18
SAMPLE: 660542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 #256
CAL1: PU6433 #2

BASE M/Z: 83/ 44
RIC: 8359./ 18559.

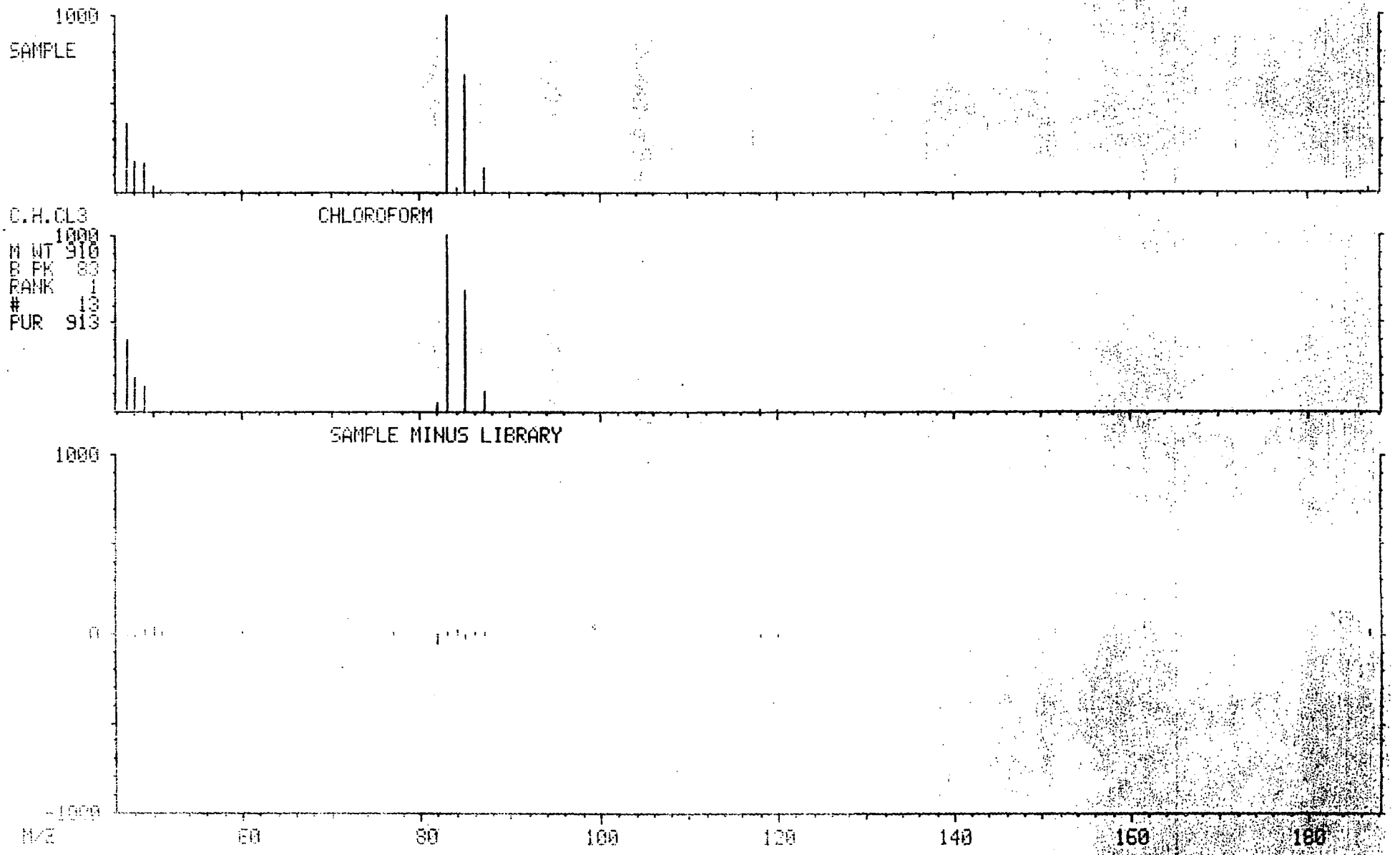
Chloroform



LIBRARY SEARCH
09/26/86 19:18:00 + 13:18
SAMPLE: 860542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU5433 # 266
LIB: PU5433 # 2

BASE M/Z: 82
RIC: 8959.

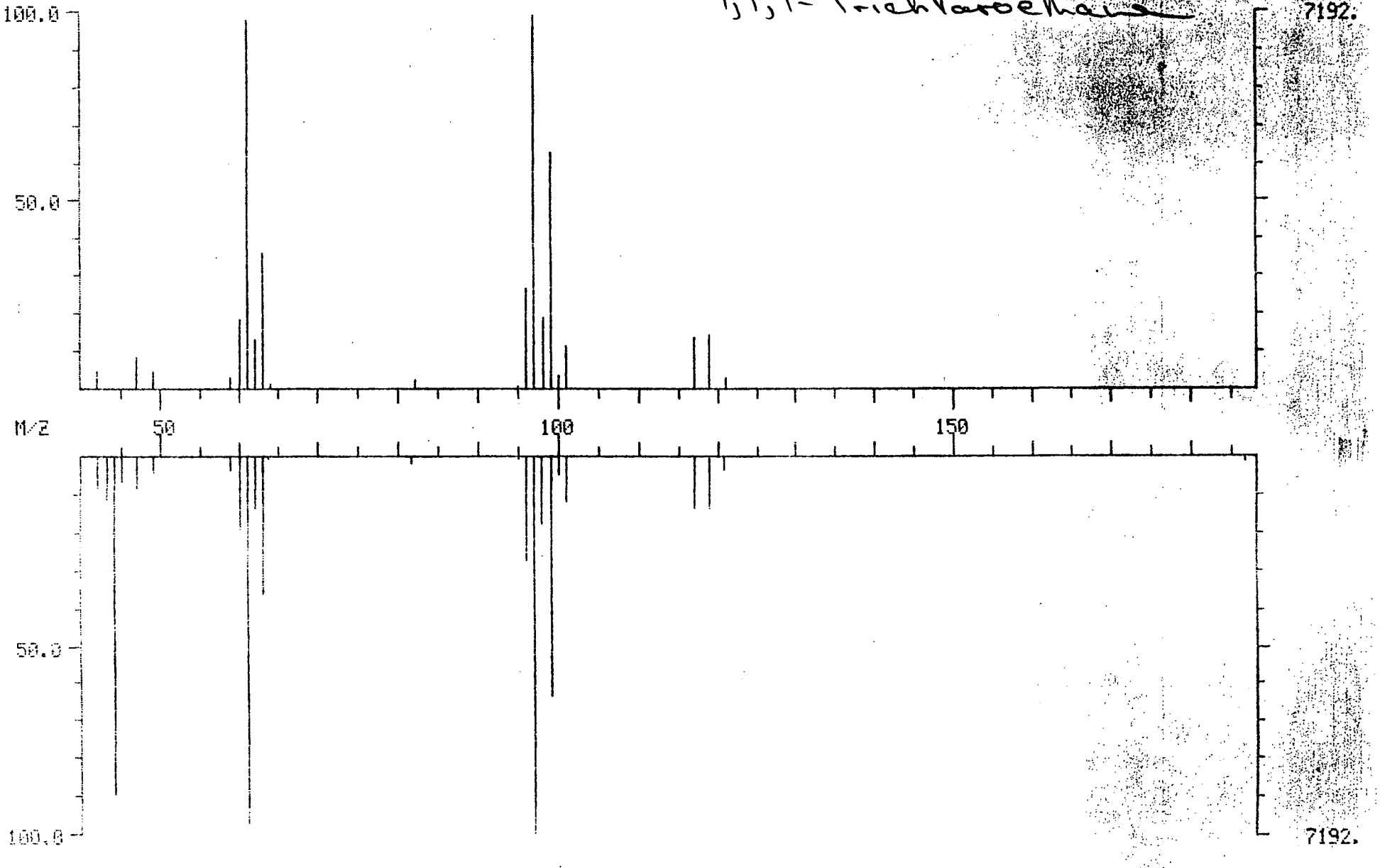


DUAL MASS SPECTRUM
09/25/86 19:18:03 + 16:05
SAMPLE: 550542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 #322
BALI: PU6433 #2

BASE M/Z: 97/ 97
RIC: 31871./ 39999.

1,1,1-Trichloroethane

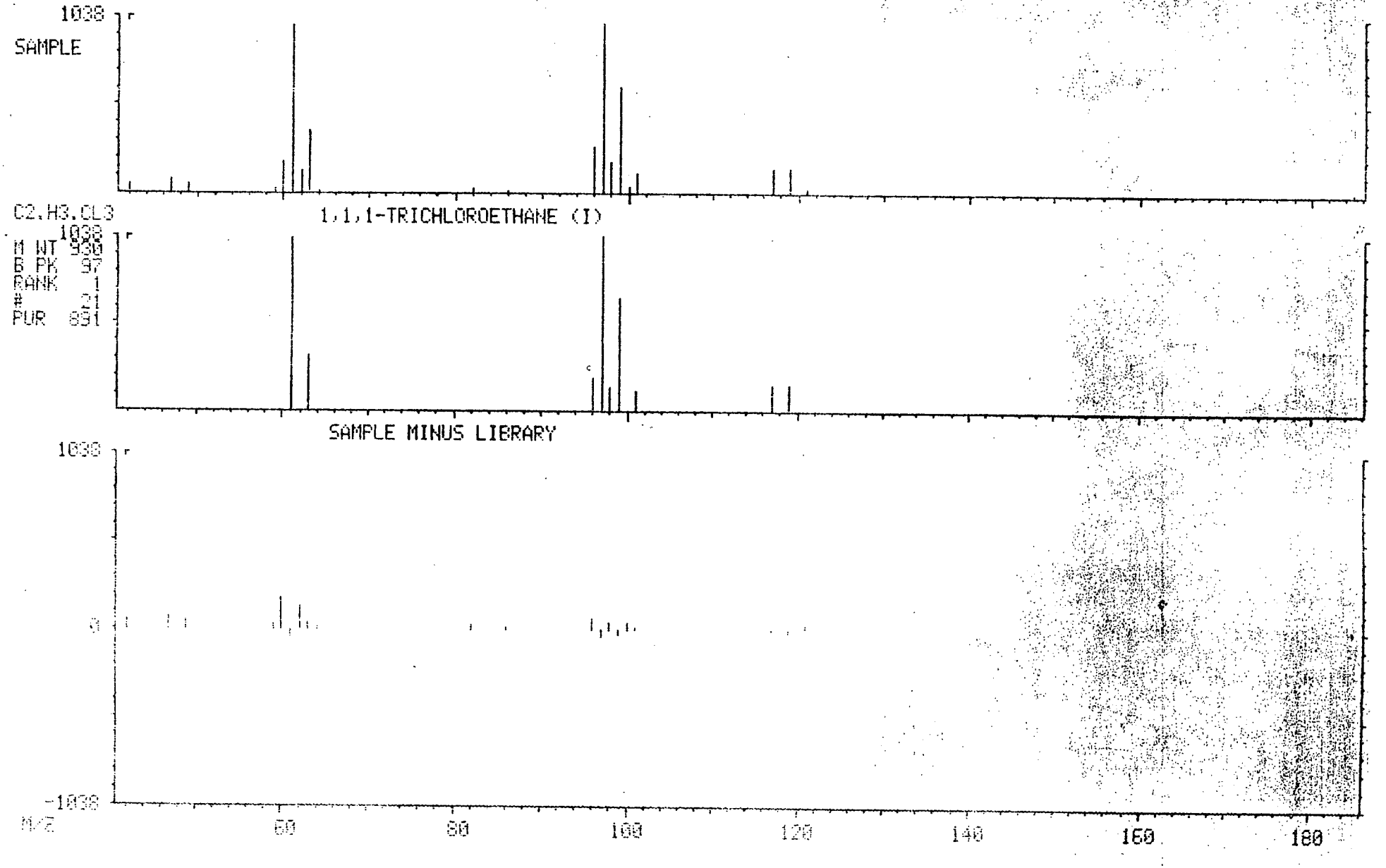


210

LIBRARY SEARCH
09/26/86 19:18:00 + 16:06
SAMPLE: 860542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 # 322
CALI: PU6433 # 2

BASE M/Z: 97
RIC: 31839.



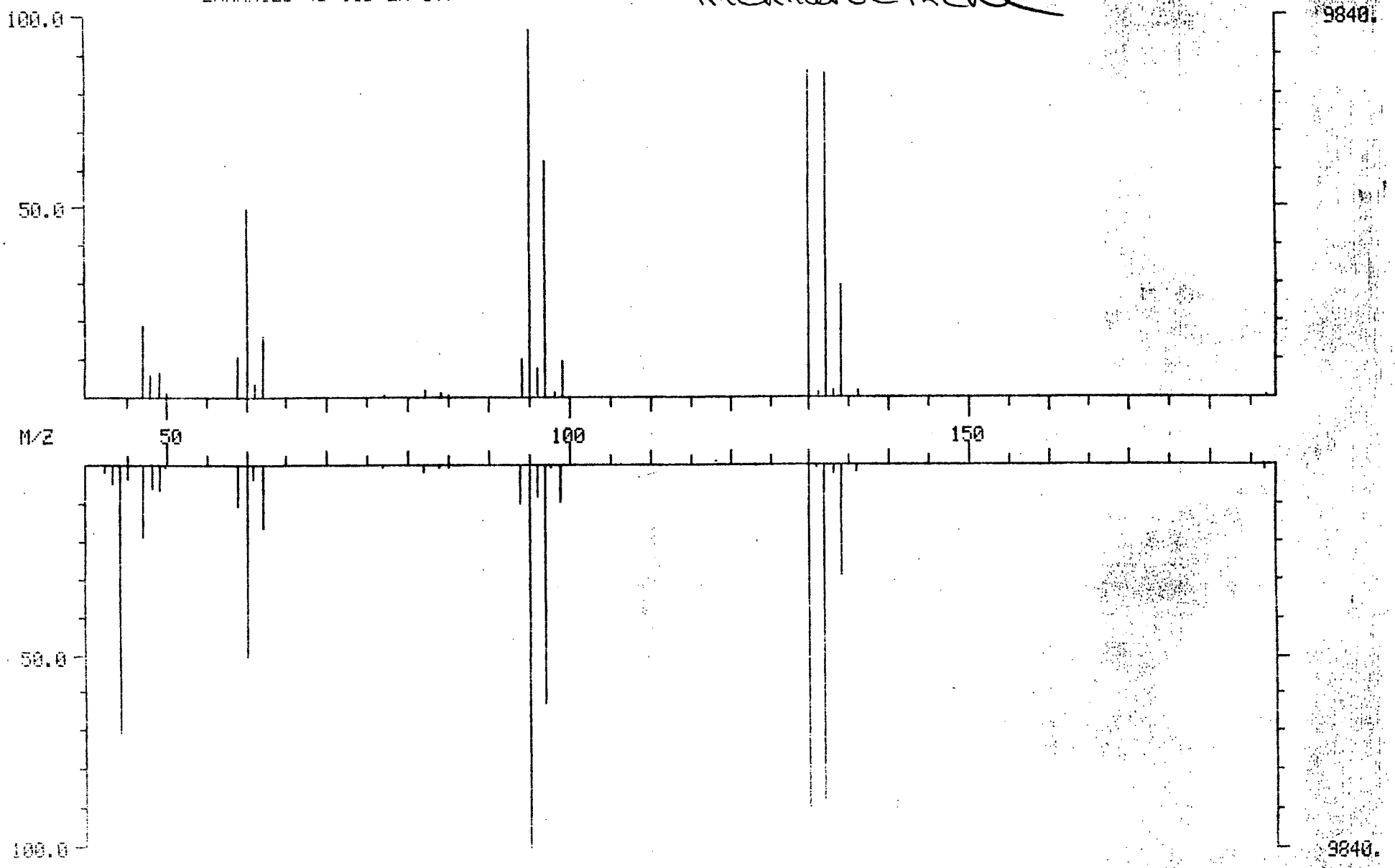
210

DUAL MASS SPECTRUM
09/26/86 19:18:00 + 20:27
SAMPLE: 660542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 #409
CALI: PU6433 #2

BASE M/Z: 95/ 95
RIC: 50175./ 58879.

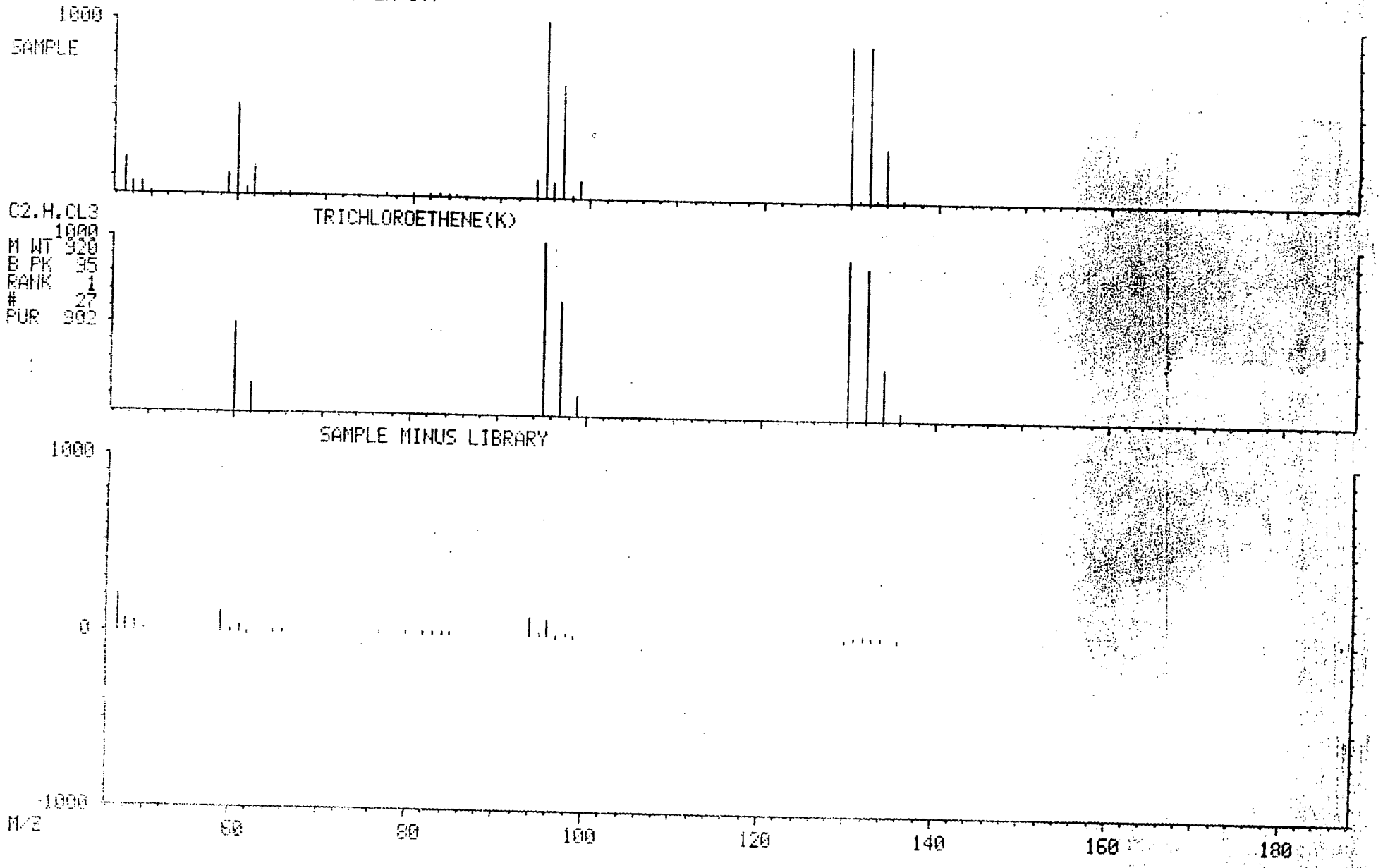
Trichloroethene



LIBRARY SEARCH
09/26/86 19:18:00 + 20:27
SAMPLE: 660542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 # 409
CALI: PU6433 # 2

BASE M/Z: 95
RIC: 50111.

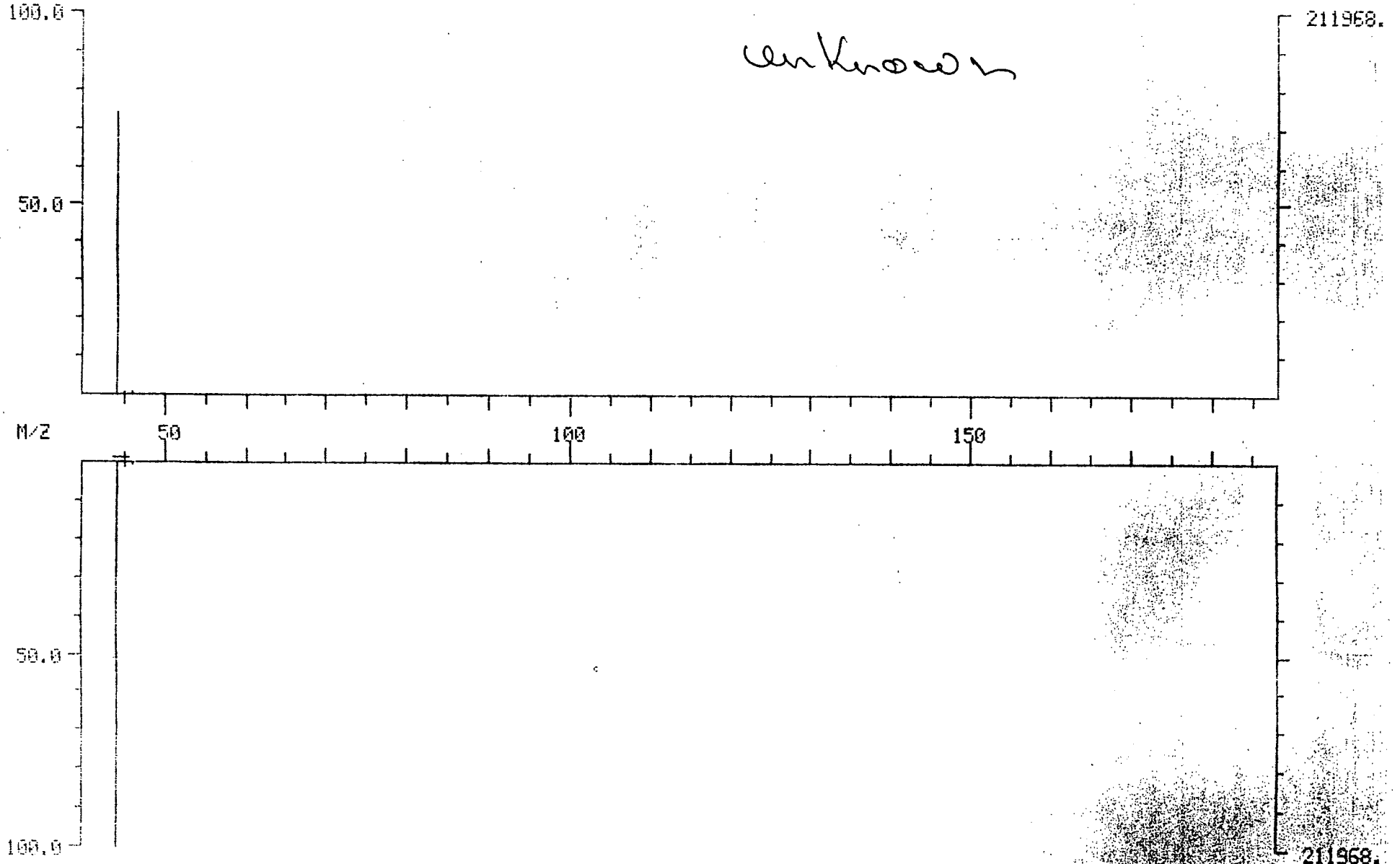


21

DUAL MASS SPECTRUM
09/26/86 19:18:00 + 0:36
SAMPLE: 660542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 #12
CALI: PU6433 #2

BASE M/Z: 44/ 44
RIC: 159743./ 216063.

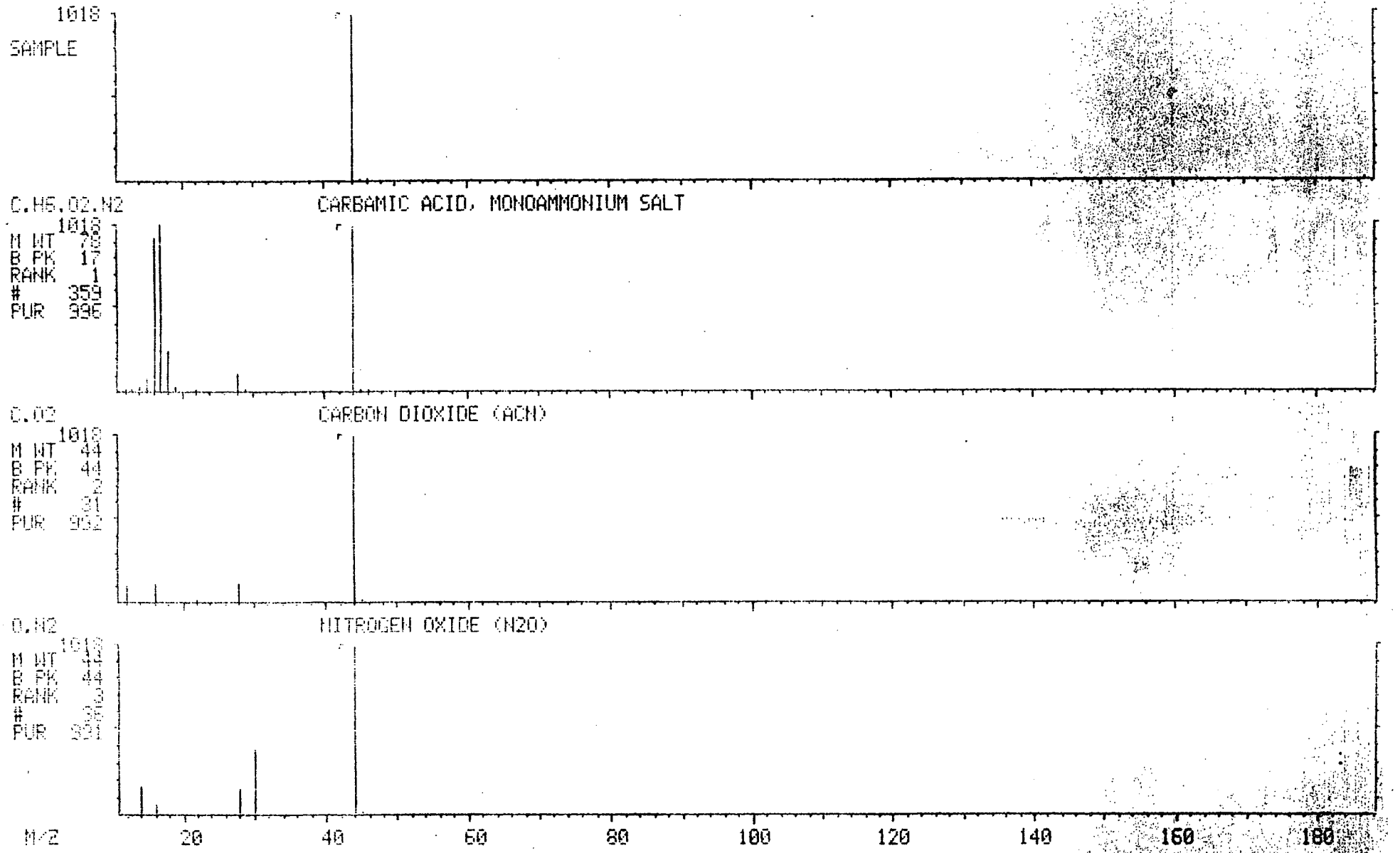


24

LIBRARY SEARCH
09/26/85 19:18:00 + 0:36
SAMPLE: 660542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 # 12
CALI: PU6433 # 2

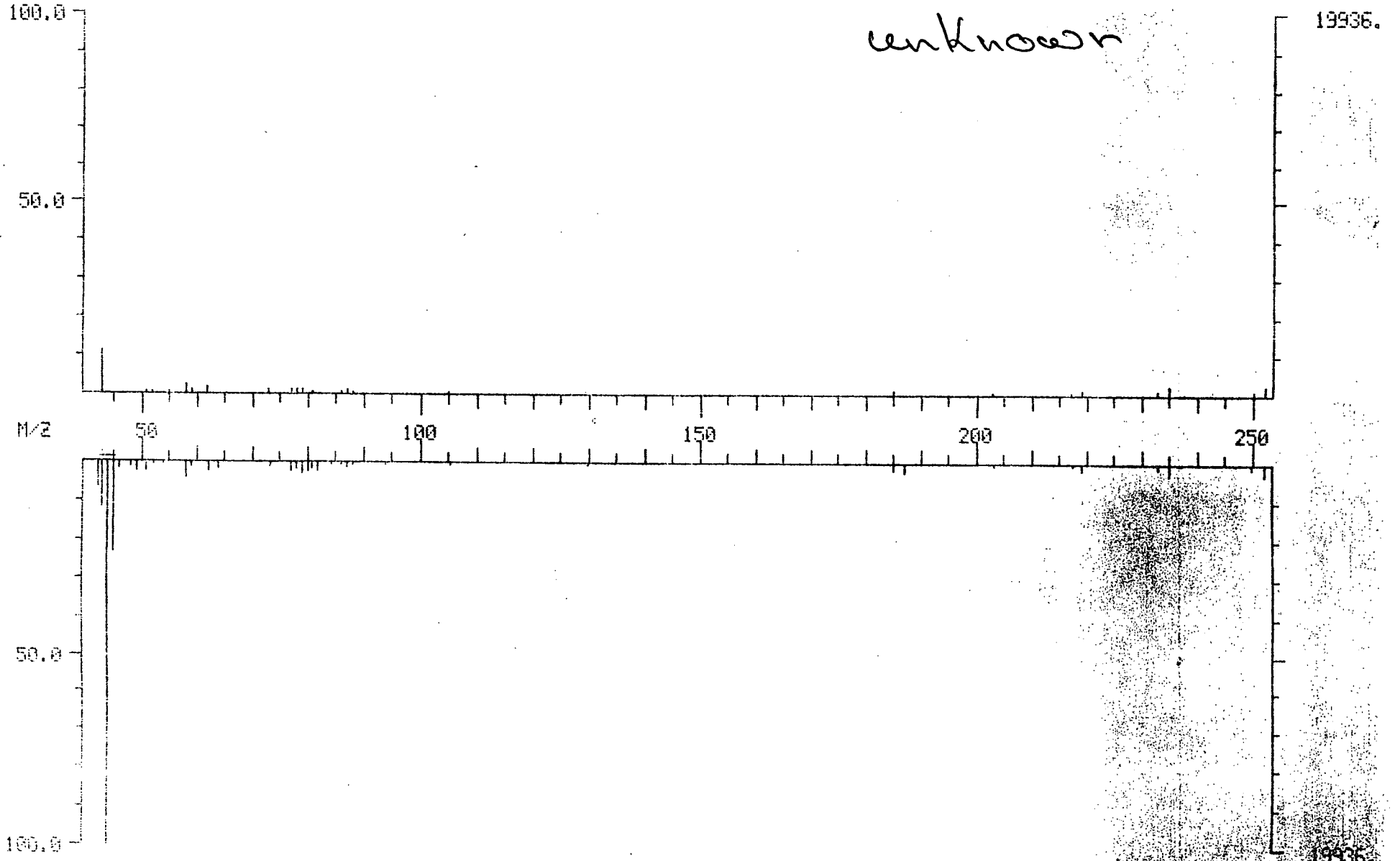
BASE M/Z: 44
RIC: 159743.



DUAL MASS SPECTRUM
03/26/85 19:18:00 + 11:18
SAMPLE: 660542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 #226
CALI: PU6433 #2

BASE M/Z: 43/ 44
RIC: 7671./ 38911.

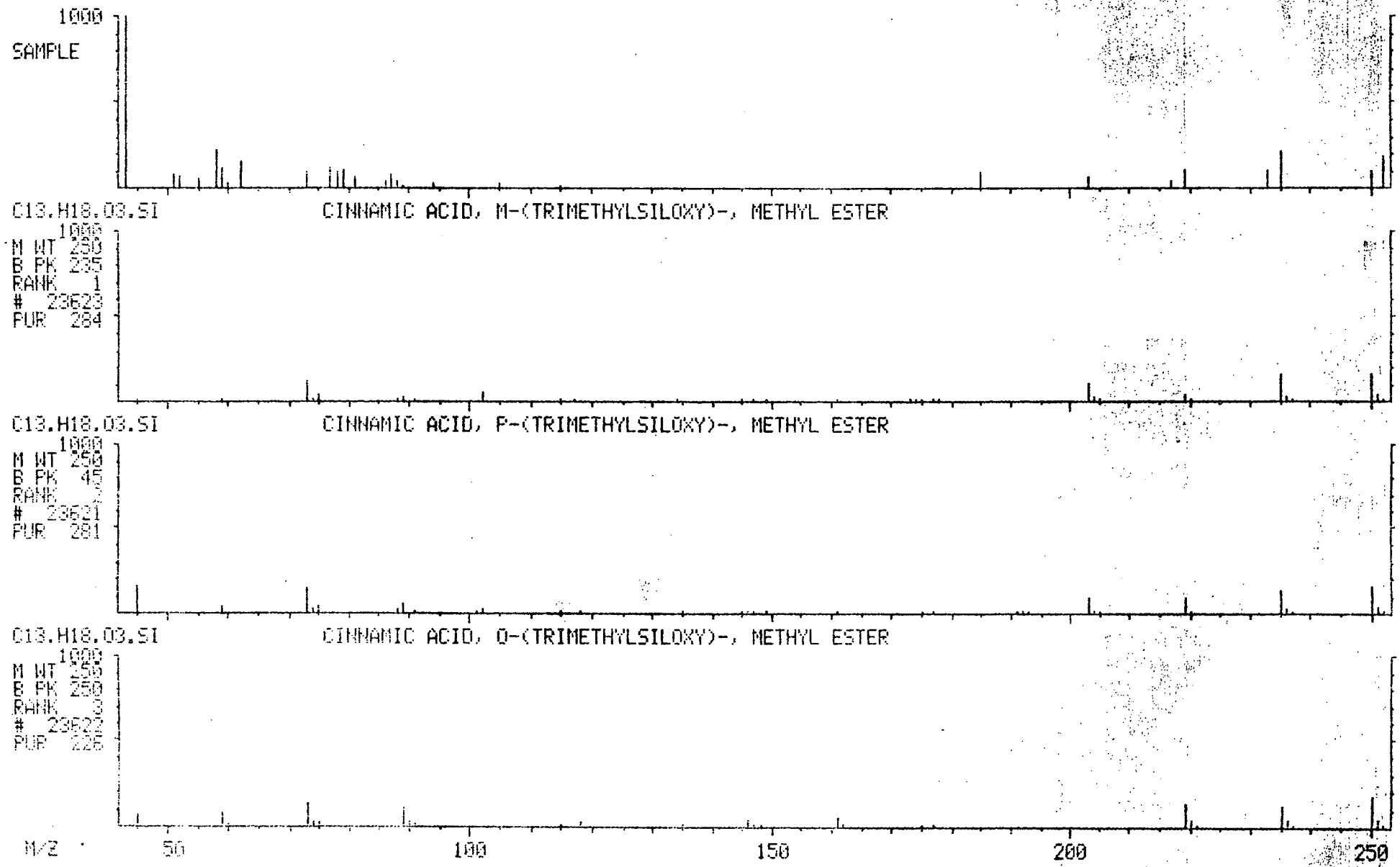


246

LIBRARY SEARCH
09/25/85 19:18:00 + 11:18
SAMPLE: 660542
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6433 # 226
CALI: PU6433 # 2

BASE M/Z: 43
RIC: 7543.

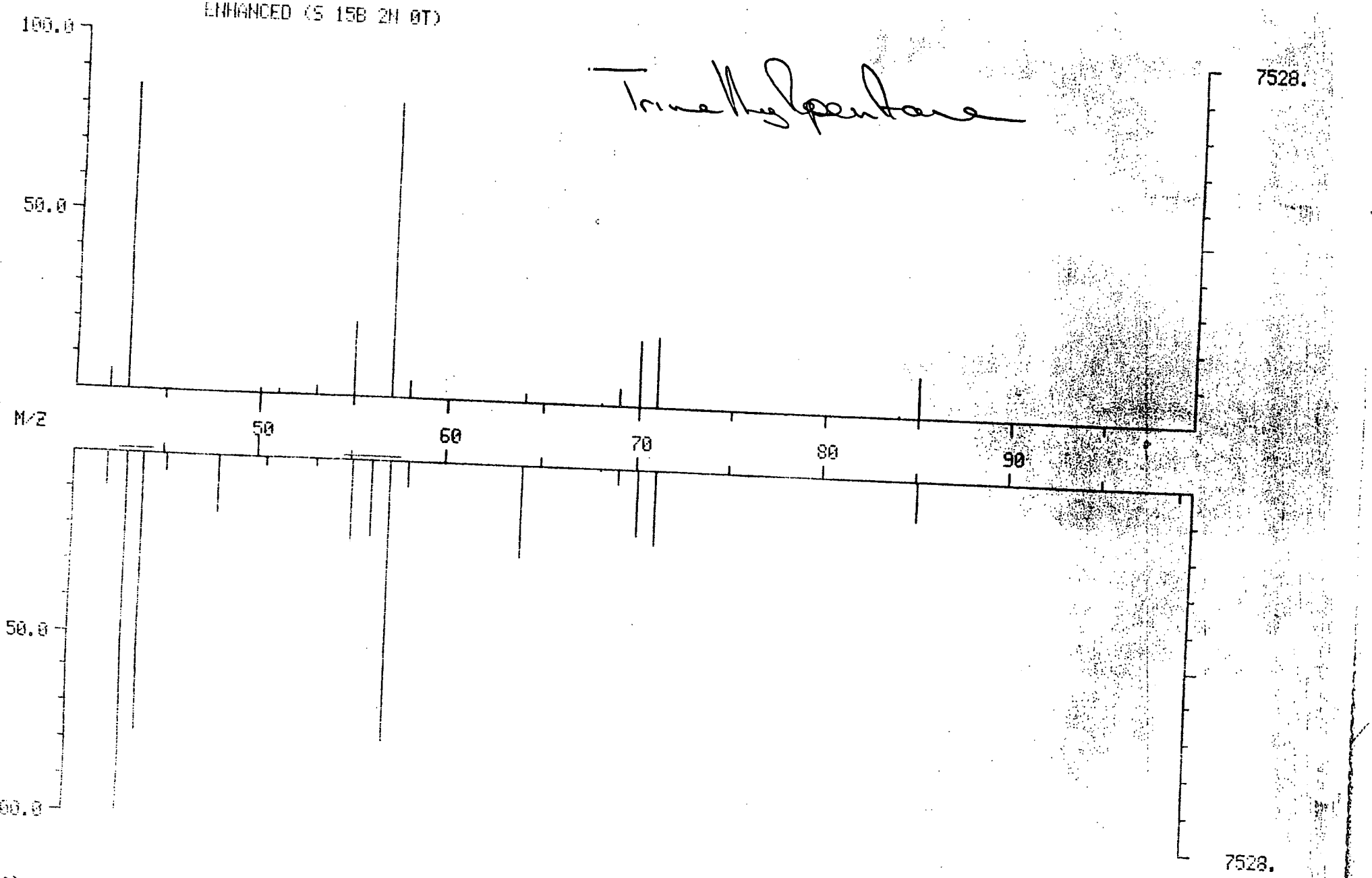


217

DUAL MASS SPECTRUM
03/26/88 13:18:00 + 28:48
SAMPLE: 580542
COMDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU5433 #576
CALI: PU5433 #2

BASE M/Z: 43/ 43
RIC: 19679./ 32063.

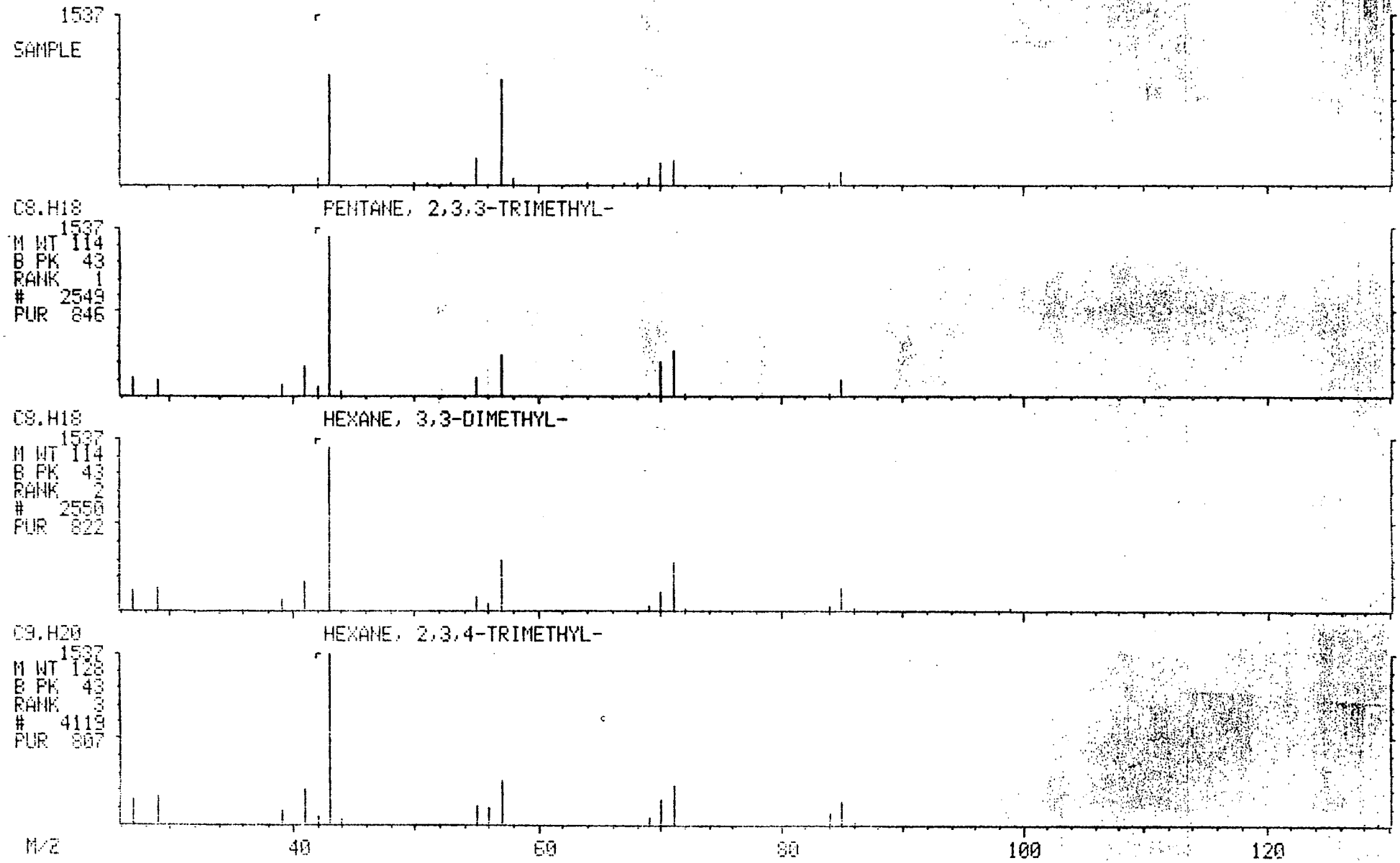


Trimethylpentane

LIBRARY SEARCH
09/26/05 19:18:00 + 28:48
SAMPLE: 660542
CONDS.:
ENHANCED (S 15B 2N 0T)

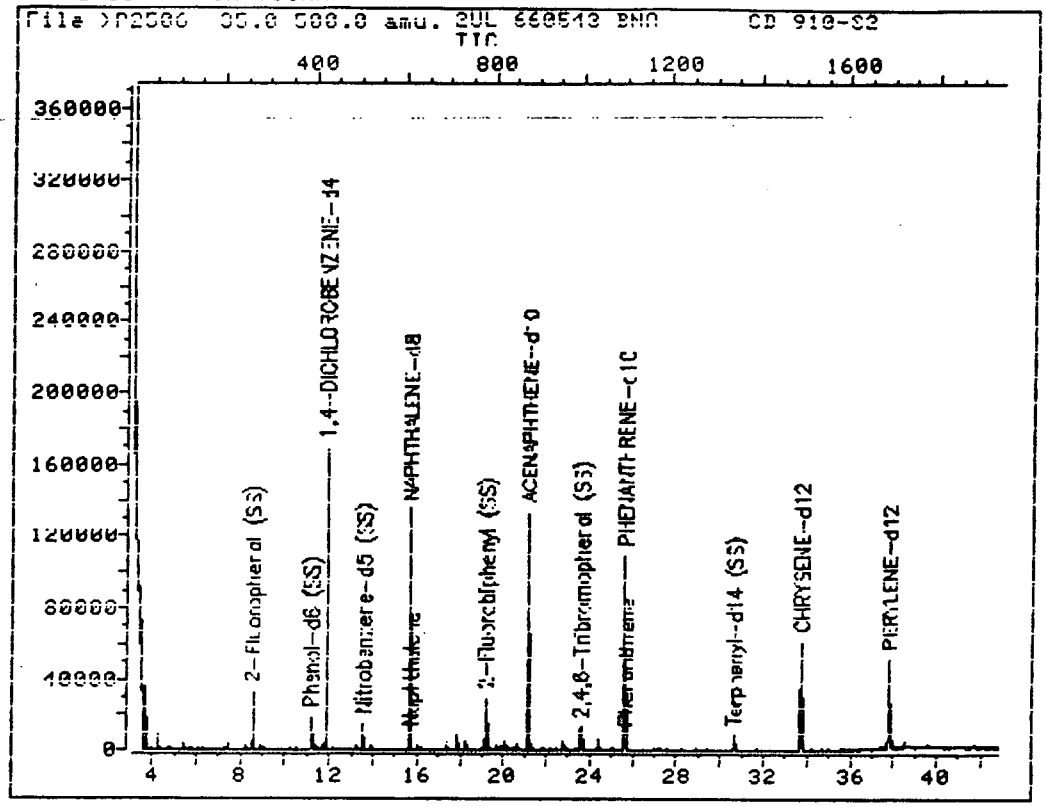
DATA: PU6433 # 576
CALI: PU6433 # 2

BASE M/Z: 43
RIC: 19679.



219

TOTAL ION CHROMATOGRAM



Data File: >P2506::D3
Name: 2UL 660543 BNA
Misc: CD 910-S2

BTL#96

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861006 19:44

Operator ID: STEVE
Quant Time: 861007 00:34
Injected at: 861006 23:49

QUANT REPORT

Operator ID: STEVE
Output File: ^P2506::DP
Data File: >P2506::D3
Name: 2UL 660543 BNA
Misc: CD 910-S2

Quant Rev: 4
Quant Time: 861007 00:34
Injected at: 861006 23:49
Dilution Factor: 1.00

BTL#96

ID File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861006 19:44

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.80	426	56934	40.00	NG	90
3)	2-Fluorophenol (SS)	8.50	265	18792	11.80	NG	92
7)	Phenol-d6 (SS)	11.14	394	16755	9.50	NG	73
15)	*NAPHTHALENE-d8	15.62	613	169333	40.00	NG	47
16)	Nitrobenzene-d5 (SS)	13.51	510	9057	5.79	NG	74
24)	Naphthalene	15.68	616	4947	.93	NG	39
27)	*ACENAPHTHENE-d10	21.10	881	66047	40.00	NG	91
31)	2-Fluorobiphenyl (SS)	19.14	785	21488	8.11	NG	98
42)	2,4,6-Tribromophenol (SS)	23.53	1000	5690	9.63	NG	84
43)	*PHENANTHRENE-d10	25.58	1100	102203	40.00	NG	51
50)	Phenanthrene	25.64	1103	2834	.91	NG	51
54)	*CHRYSENE-d12	33.70	1497	75064	40.00	NG	46
55)	Terphenyl-d14 (SS)	30.61	1346	11789	9.80	NG	35
63)	*PERYLENE-d12	37.75	1695	71348	40.00	NG	82

* Compound is ISTD

MS data file header from : >P2506

Sample: 2UL 660543 BNA Operator: STEVE MS 10/06/86 23:49
Misc : CD 910-S2 BTL#96
Sys. #: 1 MS model: 96 SW/HW rev.: CA ALS # : 0
Method file: EXTRII Tuning file: MT9301 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 220 Transfer line temp. : 280

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

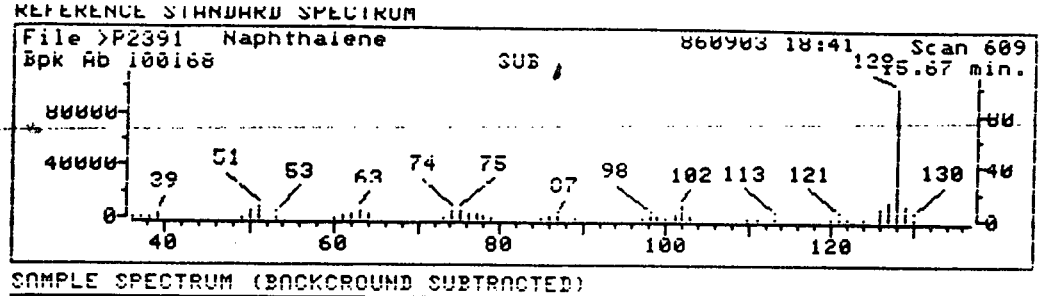
>P2506 2UL 660543 BNA CD 910-S2
35.01 500.0 CLP ADC TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	15.619	610	613	620	133315	690339	690339	100.00	39.61
2	25.578	1097	1100	1106	108146	530860	528660	76.58	30.33
3	33.696	1493	1497	1505	60868	358852	355064	51.43	20.37
4	37.745	1691	1695	1702	49133	193261	168452	24.40	9.66

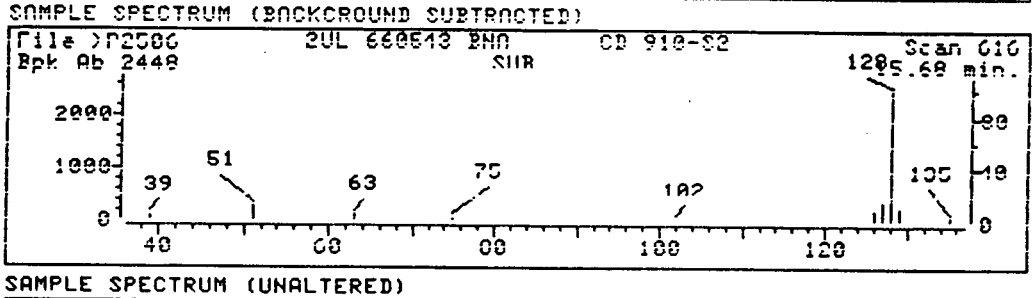
Sum of corrected areas: 1742515.

4:08 PM TUE., 7 OCT., 1986

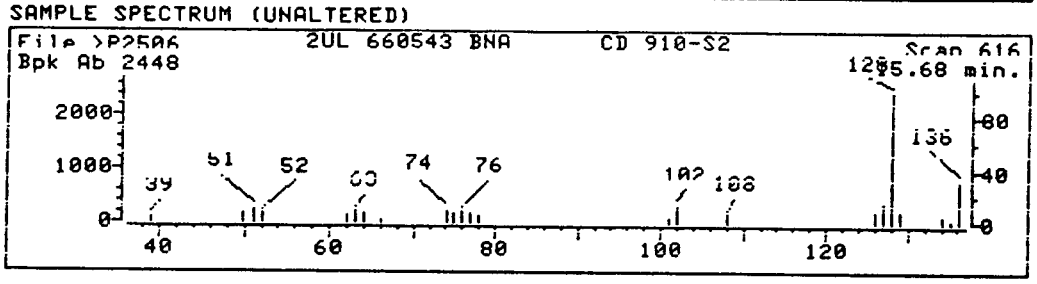
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

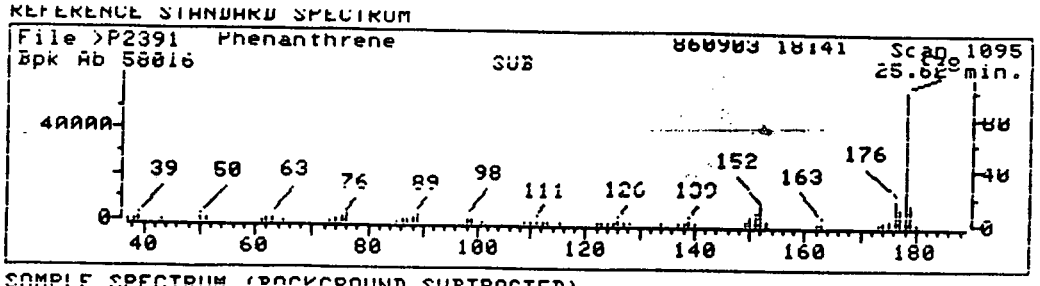


Data File: >P2506::D3
Name: 2UL 660543 BNA
Misc: CD 910-S2
Quant Time: 861007 00:34
Injected at: 861006 23:49

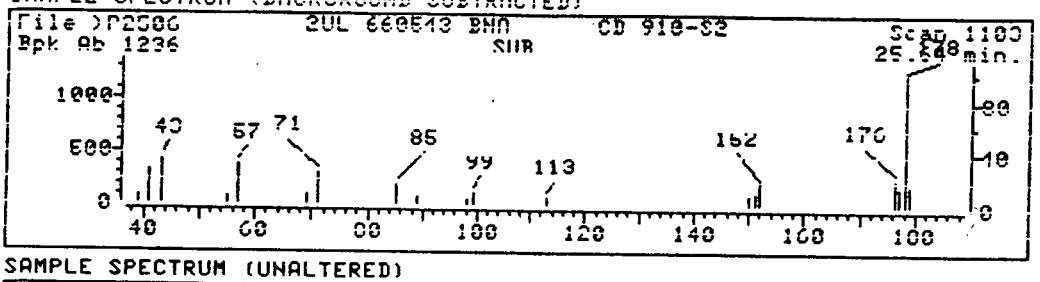
BTL#96

Compound No: 24
Compound Name: Naphthalene
Scan Number: 616
Retention Time: 15.68 min.
Area: 4947
Concentration: .93 NG < 1 mg
q-value: 39

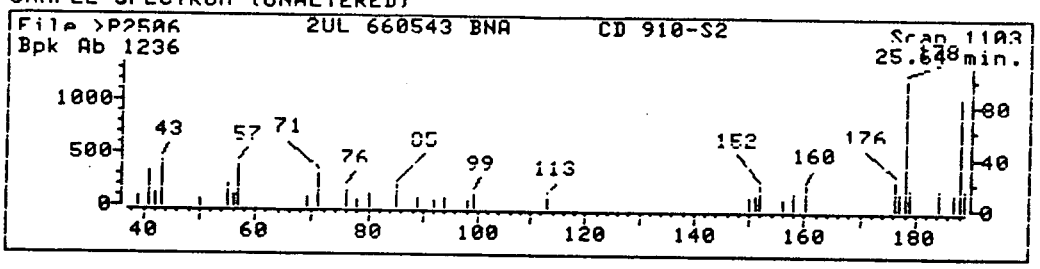
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >P2506::D3
Name: 2UL 660543 BNA
Misc: CD 910-S2
Quant Time: 861007 00:34
Injected at: 861006 23:49

BTL#96

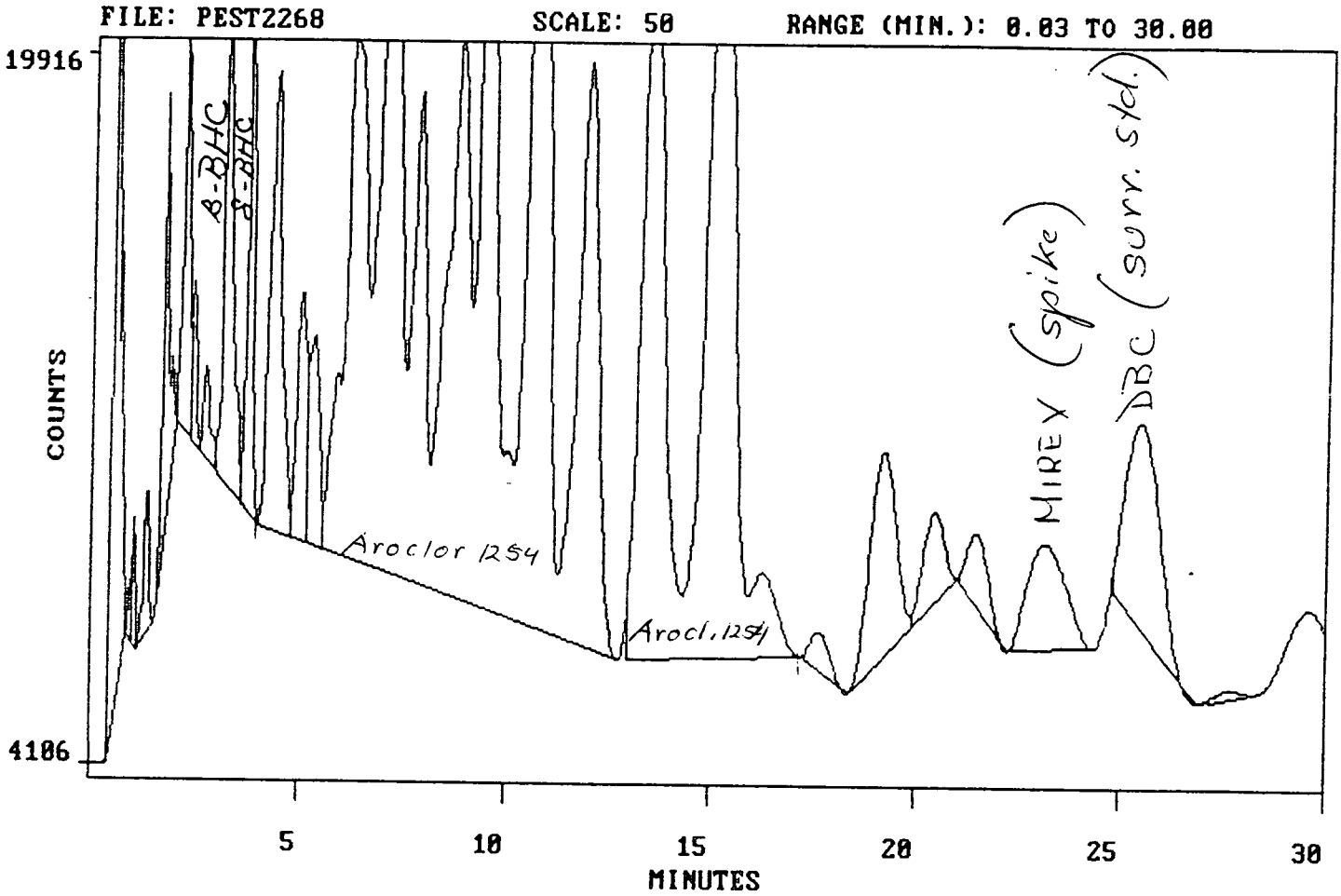
Compound No: 50
Compound Name: Phenanthrene
Scan Number: 1103
Retention Time: 25.64 min.
Area: 2834
Concentration: .91 NG <1 ng
q-value: 51

660544
CD910-S2
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:15:02:35 Date:MON 13 OCT 86

Time:19:12:24 Date:TUE 07 OCT 86
Method:ARO1254C



Channel # . . . .REINT Time:15:01:22 Date MON 13 OCT 86

Sample name.....
Data file.....PEST2268
Method name.....ARO1254C

Author.....LAL
Instrument.....Tracor 550 - ECD
Column.....1.5% SP-2250/1.95% SP-2401 on 100/120
Notes.....Reintegration of Aroclors

Run time.. ....30.00 min. Delay time...0.00 min.
Acq. time.....19:12:24 Acq. date....TUE 07 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0

Slope sens.....0.75 uv/sec.

Area reject....500
peaks found .22
Vol. Inj. ...5.0 ul Sample amount..1 000
Conv. factor.. 1.000

==========

METHOD NOT CALIBRATED!

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AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	EL
1	0.556			32.665	3413408	830598	BB
2	0.961			0.058	6072	1273	BV
3	1.074			0.117	12266	2862	VB
4	1.383			0.255	26647	3346	BB
5	1.751			0.889	92928	10310	BB
6	2.233			0 904	94473	10001	BV
7	2.433			0.224	23406	3572	VV
8	2.742			0.222	23150	2057	VV
9	3.224		B-BHC	1.664	173872	13931	VV
10	3.760		δ-BHC	1.086	113470	11185	VB
11	4.390		unknown (not aldrin)	1.941	202853	10271	BV
12	5.017		→ rep. limit from sec. col.	0.946	98857	5611	VV
13	5 334			0.708	73940	4693	VV
14	10 721			35.453	3704786	25894	VB
15	15.200			15.478	1617382	21163	BB
16	17.671			0 265	27684	849	BB
17	19 256			1.930	201696	4525	BV
18	20.493			0.703	73452	1988	VB
19	21.519			0 541	56506	1621	BB
20	23 211			1.420	148398	2314	BB
21	25.582			2.459	256927	4595	BB
22	27.818			0.072	7564	145	BB

22

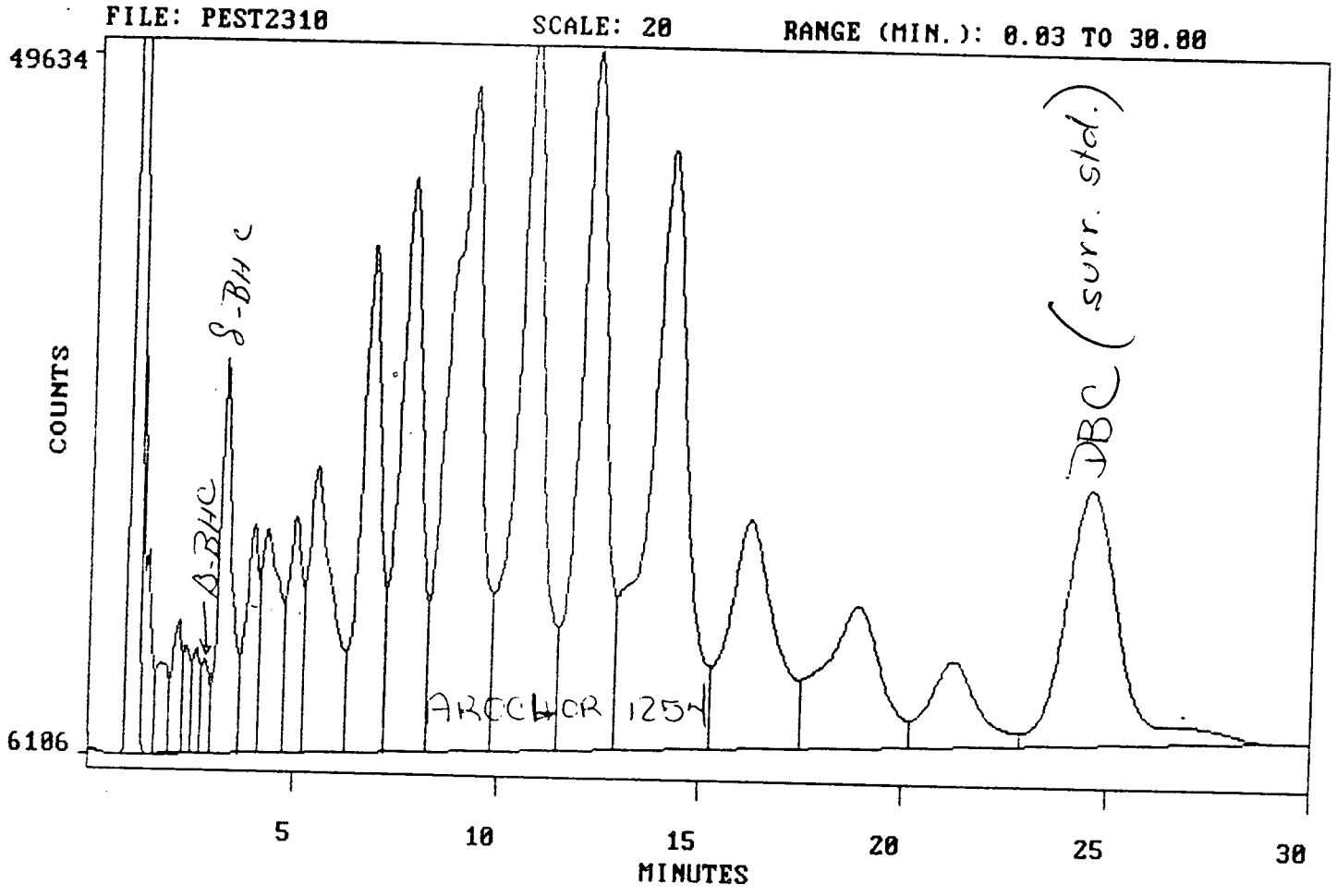
660544
CD910-S2

CONFIRMATORY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:20:09.52 Date:THU 09 OCT 86

Time:19:27:02 Date:THU 09 OCT 86
Method:PEST2



Channel #.....4 Time:19:58:52 Date:THU 09 OCT 86
Run #5 of 100

Sample name .....NJDEP
Data file.....DAT258:PEST2310
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column .....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....19:27:02 Acq. date....THU 09 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0

Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..23
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.102			0.006	1658	159	BB
2	1.117			38.867	11609795	872043	BE
3	1.427			0.810	241874	12603	EV
4	1.746			0.457	136480	5746	EV
5	2.186			0.526	157023	8318	EV
6	2.383			0.340	101540	6738	EV
7	2.625			0.349	104358	6550	EV
8	2.828		B-BHC	0.306	91270	5910	EV
9	3.265		& S-BHC	1.716	512594	24389	VV
10	3.968			0.990	295864	14087	VV
11	4.305			1.399	417834	13895	VV
12	4.975			1.150	343514	14542	VV
13	5.476			2.357	703980	17673	VV
14	6.751			3.454	1031631	31446	VV
15	7.734			4.670	1395047	35616	VV
16	9.218			7.720	2306052	41243	VV
17	10.689			7.032	2100589	45334	VV
18	12.230			6.528	1949848	43358	VV
19	14.127			8.103	2420337	37103	VV
20	16.173			3.768	1125475	14150	VV
21	18.847			2.925	873789	8772	VV
22	21.214			1.513	451804	5353	VV

23	24.627	DBC	5.015	1497996	15651	VB
TOTALS			100.000	29870352		

III. 2. Reporting Package
NJ DEP I.D. # S-3

H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Lab No. 660546
Type: Misc. - Tier I
Point: Background
Date Collected: 9/11/86
Date Received: 9/12/86
Collected By: CL 99

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Scan No.	Cas Number	Compound	ug/kg
	74-87-3	Chloromethane	10U
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl chloride	10U
	75-00-3	Chloroethane	10U
111	75-09-2	Methylene chloride	4000
	75-69-4	Trichlorofluoromethane	10U
188	75-35-4	1,1-dichloroethene	61
	75-34-3	1,1-dichloroethane	10U
	156-60-5	Cis/Trans-1,2-dichloroethene	10U
	67-66-3	Chloroform	10U
	107-06-2	1,2-dichloroethane	10U
317	71-55-6	1,1,1-Trichloroethane	110B
	56-23-5	Carbon tetrachloride	10U
	75-27-4	Bromodichloromethane	10U
	79-34-5	1,1,2,2-Tetrachloroethane	10U
	70-87-5	1,2-dichloropropane	10U
	10061-02-6	Trans-1,3-dichloropropene	10U
407	79-01-6	Trichloroethene	6J
	124-48-1	Dibromochloromethane	10U
	79-00-5	1,1,2-trichloroethane	10U
	71-43-2	Benzene	10U
	10061-01-5	cis-1,3-Dichloropropene	10U
	110-75-8	2-chloroethylvinyl ether	10U
	75-25-2	Bromoform	10U
	127-10-4	Tetrachloroethene	10U
594	106-88-3	Toluene	3J
	106-90-7	Chlorobenzene	10U
	100-41-4	Ethylbenzene	10U
	541-73-1	1,2-Dichlorobenzene	10U
	95-50-1	1,3-Dichlorobenzene	10U
	106-46-1	1,4-Dichlorobenzene	10U

Date Reported: 10/15/86

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* *
* *
****
S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: S-3

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob. FIT	% Prob. RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown (Carbon Dioxide)	-	-	13	330B
2.		Unknown	-	-	150	31
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H2M

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

Lab Name: H2M Labs

Sample Lab No. 660547 - S-3

Concentration: Low

Date Extracted: 9/24/86

Date Analyzed: 10/6/86

Dil. Factor: 1:2

Semi-Volatile Compounds

C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan No
65-75-9	N-Nitrosodimethylamine	20000U	83-32-9	Acenaphthene	760J	886
108-95-2	Phenol	20000U	51-28-5	2,4-Dinitrophenol	20000U	
62-53-3	Aniline	20000U	100-02-7	4-Nitrophenol	20000U	
111-44-4	bis(2-Chloroethyl)Ether	20000U	121-14-2	2,4-Dinitrotoluene	20000U	
95-57-8	2-Chlorophenol	20000U	606-20-2	2,6-Dinitrotoluene	20000U	
541-73-1	1,3-Dichlorobenzene	20000U	84-66-2	Diethylphthalate	20000U	
106-46-7	1,4-Dichlorobenzene	20000U	7005-72-3	4-Chlorophenyl-phenylether	20000U	
95-50-1	1,2-Dichlorobenzene	20000U	86-73-7	Fluorene	20000U	
39638329	bis(2-chloroisopropyl)ether	20000U	534-52-1	4,6-Dinitro-2-Methylphenol	20000U	
621-64-7	N-Nitroso-Di-n-Propylamine	20000U	86-30-6	N-Nitrososdiphenylamine (1)	20000U	
67-72-1	Hexachloroethane	20000U	101-55-3	4-Bromophenyl-phenylether	20000U	
98-95-3	Nitrobenzene	20000U	118-74-1	Hexachlorobenzene	20000U	
78-59-1	Isophorone	20000U	87-86-5	Pentachlorophenol	20000U	
88-75-5	2-Nitrophenol	20000U	85-01-8	Phenanthrene	15000J	110
105-67-9	2,4-Dimethylphenol	20000U	120-12-7	Anthracene	2900J	110
111-91-1	bis(2-Chloroethoxy)Methane	20000U	84-74-2	Di-n-Butylphthalate	20000U	
120-83-2	2,4-Dichlorophenol	20000U	206-44-0	Fluoranthene	40000	128
120-82-1	1,2,4-Trichlorobenzene	20000U	92-87-5	Benzidine	60000U	
91-20-3	Naphthalene *	620J	129-00-0	Pyrene	25000	131
87-68-3	Hexachlorobutadiene	20000U	85-68-7	Butylbenzylphthalate	20000U	
59-50-7	4-Chloro-3-Methylphenol	20000U	91-94-1	3,3'-Dichlorobenzidine	20000U	
77-47-4	Hexachlorocyclopentadiene	20000U	56-55-3	Benzo(a)Anthracene	12000J	149
88-06-2	2,4,6-Trichlorophenol	20000U	117-81-7	bis(2-Ethylhexyl)Phthalate	3400J	152
91-58-7	2-Chloronaphthalene	20000U	218-01-9	Chrysene	14000J	150
131-11-3	Dimethyl Phthalate	20000U	117-84-0	Di-n-Octyl Phthalate	20000U	
208-96-8	Acenaphthylene	20000U	205-99-2	Benzo(b)Fluoranthene	12000J	164
			207-08-9	Benzo(k)Fluoranthene	12000J	164
			50-32-8	Benzo(a)Pyrene	12200J	168
			193-39-5	Indeno(1,2,3-cd)Pyrene	9600J	184
			53-70-3	Dibenzo(a,h)Anthracene	20000U	
			191-24-2	Benzo(g,h,i)Perylene	12000J	189

* Scan #615

(1) Cannot be separated from diphenylamine

Date Reported: 10/16/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: S-3

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob FIT | RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Polychlorinated Biphenyl	96	1342	21000J
2.		Polychlorinated Biphenyl	96	1354	16000J
3.		Polychlorinated Biphenyl	96	1384	21000J
4.		Polychlorinated Biphenyl	98	1442	15000J
5.		Polynuclear Aromatic	-	1649	21000J
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H2M

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 660548
Date Extracted: 9/18/86
Date Analyzed: 10/7/86
Type: Misc. - Tier I
Point: S-3
Collected By: CL 99

ANALYSIS FOR PESTICIDES/PCB's

C.A.S. No.	Compound	ug/kg
319-84-6	Alpha-BHC	100U
319-87-7	Beta-BHC	100U
319-86-8	Delta-BHC	100U
58-89-9	Gamma-BHC (Lindane)	100U
76-44-8	Heptachlor	100U
309-00-2	Aldrin	100U
1024-57-3	Heptachlor Epoxide	2000U
959-98-8	Endosulfan I	400U
68-57-1	Dieldrin	2000U
72-55-9	4,4'-DDE	400U
72-20-8	Endrin	400U
33213-65-9	Endosulfan II	400U
72-54-8	4,4'-DDD	400U
1031-07-8	Endosulfan Sulfate	400U
50-29-3	4,4'-DDT	2000U
72-43-5	Methoxychlor	80U
53494-70-5	Endrin Ketone	16U
57-74-9	Chlordane	400U
8001-35-2	Toxaphene	400U
12674-11-2	Aroclor 1016	300U
11104-28-2	Aroclor 1221	300U
11141-16-5	Aroclor 1232	300U
53469-21-9	Aroclor 1242	300U
12672-29-6	Aroclor 1248	300U
11097-69-1	Aroclor 1254	410000
11096-82-5	Aroclor 1260	2000U

Vi = Volume of extract injected (uL)
Ws = Weight of sample extracted (g)
Vs = Ws = 9.05 g Vt = 10 mL
Date Reported: 10/17/86

Vs = Volume of water extracted (mL)
Vt = Volume of Total extract (mL)
Vi = 5 uL

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****
S.C. McLendon, P.E.
Laboratory Director

Lab Name : H2M LABS

Sample Number
660548

NJDEP #CD910-S3
Run2269

ORGANICS ANALYSIS DATA SHEET

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Probability Fit	% Probability RFIT	RT or Scan Number	Estimated Concentration (ug/ L or ug/kg)
1.		Unknown			2.22	80
2.		Unknown			2.74	270
3.		Unknown			3.09	220
4.		Unknown			348	980
5.		Unknown			4.25	1300
6.		Unknown			17.54	88
7.		Unknown			19.11	700
8.		Unknown			20.36	32
9.		Unknown			21.38	380
10.		Unknown			29.41	230
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H2M
Environmental Engineers & Scientists
HOLZMACHER, McLENDON and MURRELL, P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

WATER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

LAB NO. 660549
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.
65 PROSPECT ST.
TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 9/11/86 DATE RECEIVED - 9/12/86

NJDEP SAMPLE #CD 910-S3
NJDEP SAMPLE POINT I.D. #BACKGROUND
SOIL SAMPLE

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	30.4 N	SELENIUM	<0.20 N
ARSENIC	26.2	SILVER	11.1 N
BERYLLIUM	2.90	THALLIUM	<2.20 N
CADMIUM	55.3	ZINC	1800 N
CHROMIUM	242.	PHENOLS	0.07
COPPER	1600	CYANIDE	<3.50
LEAD	1930	TOTAL SOLIDS	90.0 %
MERCURY	1.40 N		
NICKEL	589.		

ALL RESULTS REPORTED IN mg/kg DRY WEIGHT

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
AFC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

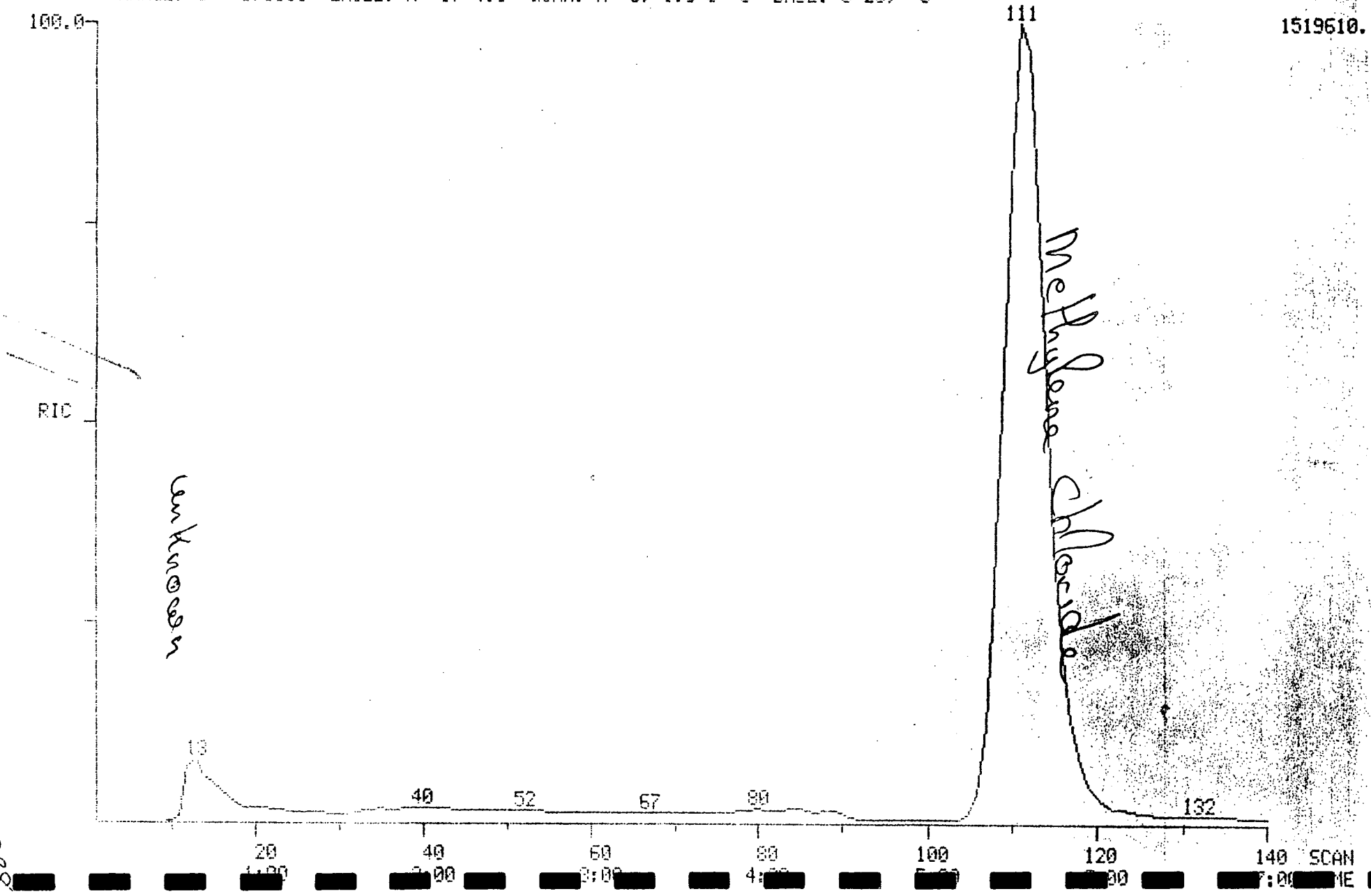
DATE REPORTED 10/ 8/86

S. C. McLENDON, P.E., LABORATORY DIRECTOR

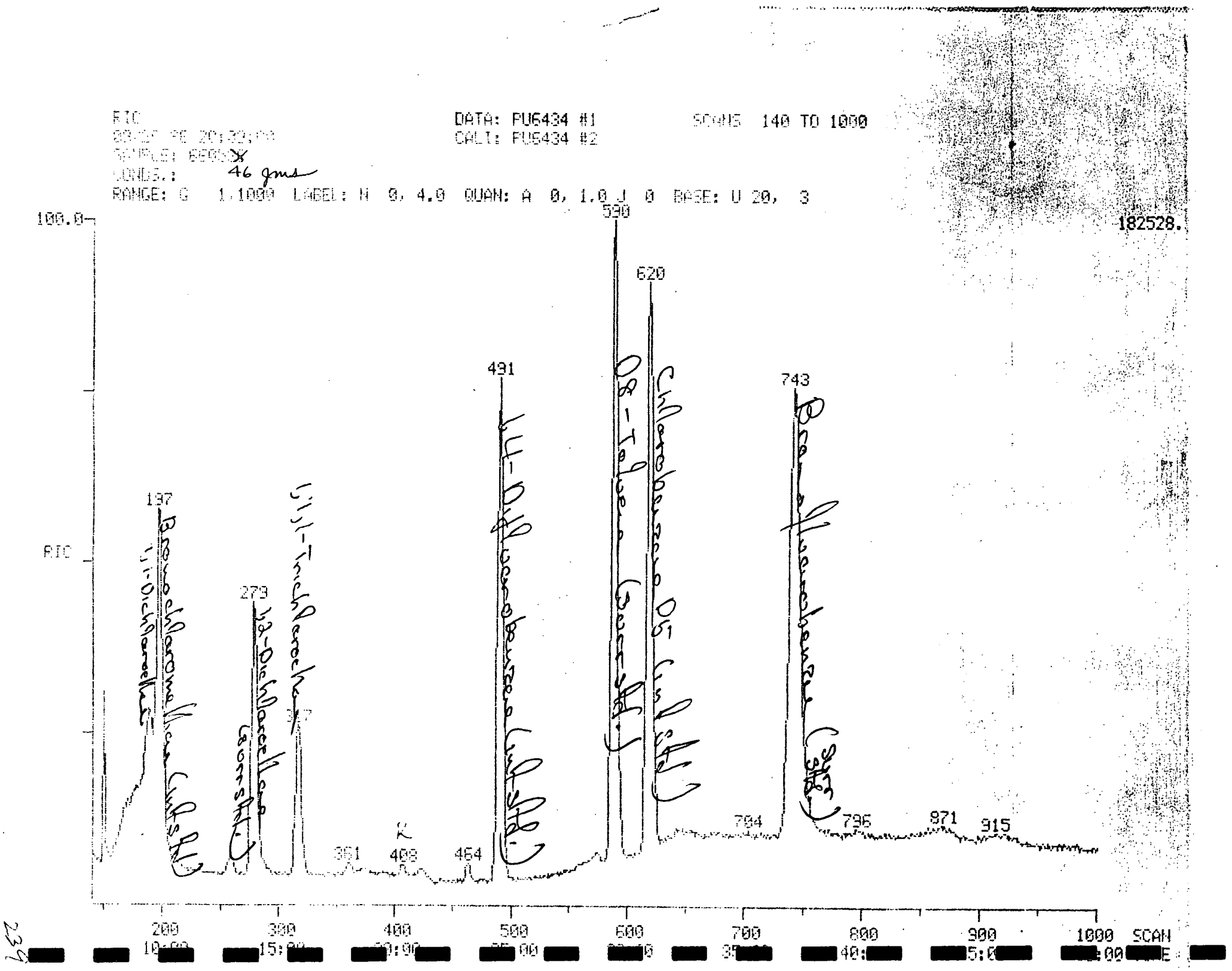
THE LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

RIC
03/26/86 20:09:00
SAMPLE: 5605X
CONDS.: 46 gms
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6434 #1 SCANS 1 TO 140
CALI: PU6434 #2



238


RIC
DATA: PU6434 #1
CALI: PU6434 #2
SCANS 140 TO 1000
46 gms
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
182528.
100.0
RIC
197
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SCAN

QUANTITATION REPORT FILE: PU6434

DATA: PU6434.TI
09/26/86 20:09:00
SAMPLE: 660586
CONDS.: 46 gms
SUBMITTED BY: NJDEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D5-TOLUENE(SURR. STD)
48	BROMOFLUORBENZENE(SURR. STD)

No	M/I	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	[illegible]

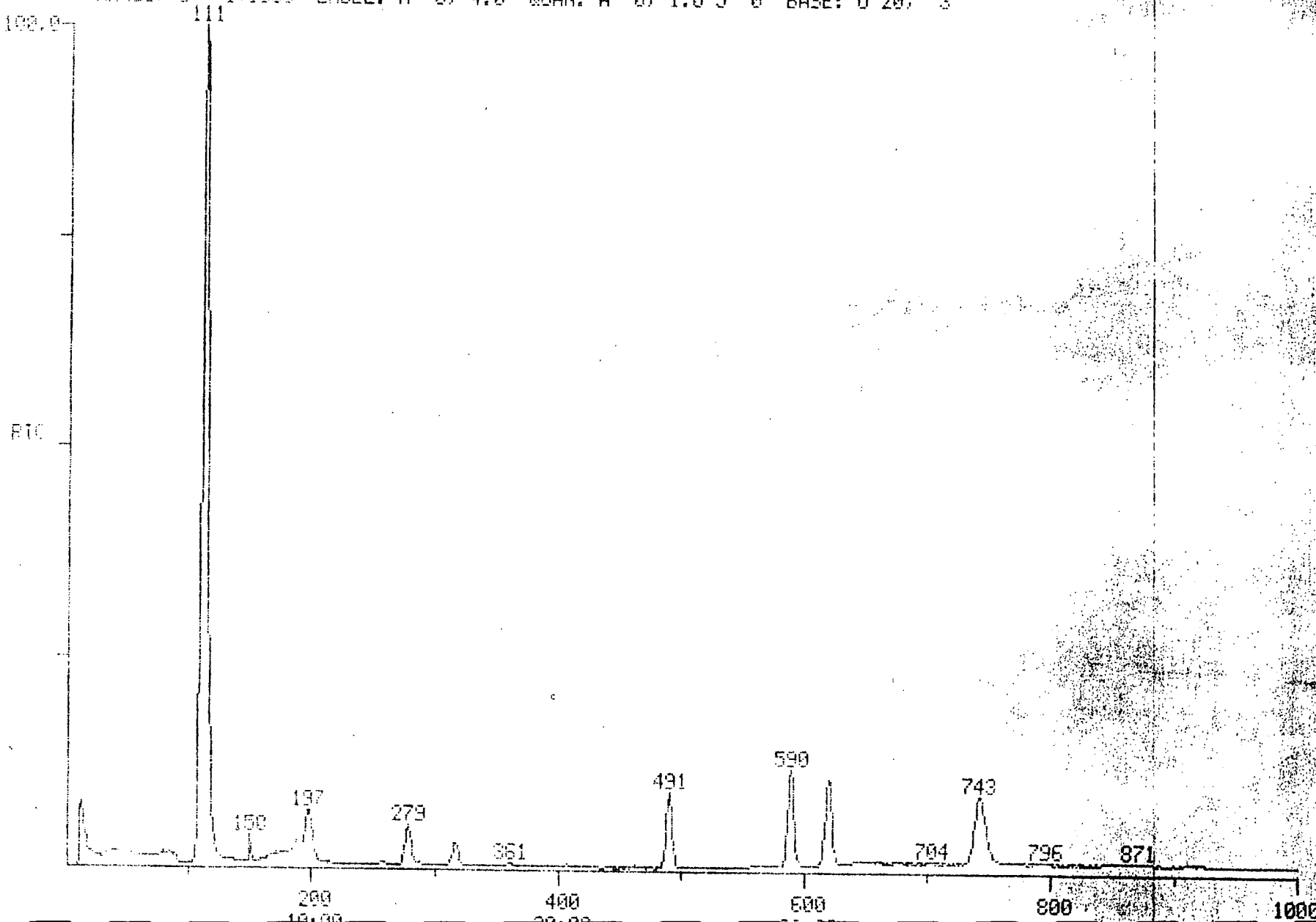
240

4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	84	111	5:33	1	0.561	A BB	1704080.	3711.170	NG	60.95
8	43	139	6:57	1	0.702	A BB	7297.	42.440	NG	0.70
9	NOT FOUND									
10	96	188	9:24	1	0.949	A BB	17275.	56.704	NG	0.93
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	85	52	2:36	1	0.263	A BB	3489.	456.821	NG	7.50
17	NOT FOUND									
18	NOT FOUND									
19	114	491	24:33	19	1.000	A BB	287823.	250.000	NG	4.11
20	43	287	14:21	19	0.585	A*VB	13119.	49.128	NG	0.81
21	97	317	15:51	19	0.646	A BB	50609.	100.591	NG	1.65
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	130	407	20:21	19	0.829	A BB	3047.	5.817	NG	0.10
27	NOT FOUND									
28	NOT FOUND									
29	78	432	21:36	19	0.880	A BB	191.	0.101	NG	0.00
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	117	620	31:00	33	1.000	A BB	240303.	250.000	NG	4.11
34	43	511	25:33	33	0.824	A*BB	881.	137.748	NG	2.26
35	43	549	27:27	33	0.885	A BV	2899.	66.413	NG	1.09
36	NOT FOUND									
37	NOT FOUND									
38	92	594	29:42	33	0.958	A BB	2532.	2.645	NG	0.04
39	NOT FOUND									
40	NOT FOUND									
41	NOT FOUND									
42	NOT FOUND									
43	106	796	39:48	33	1.284	A BB	340.	156.508	NG	2.57
44	NOT FOUND									
45	NOT FOUND									
46	NOT FOUND									
47	100	590	29:30	33	0.952	A BB	171910.	277.103	NG	4.55
48	95	743	37:09	33	1.198	A BB	216741.	238.597	NG	3.92

RIC
09/26/86 20:03:00
SAMPLE: 6805X
COMS.: 46 gms
RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU5434 #1 SCANS 1 TO 1000
CALI: PU5434 #2

151961



TCA FINISHED. 6 FOUND
FINISHED AT: 9/24/86 16:10:37

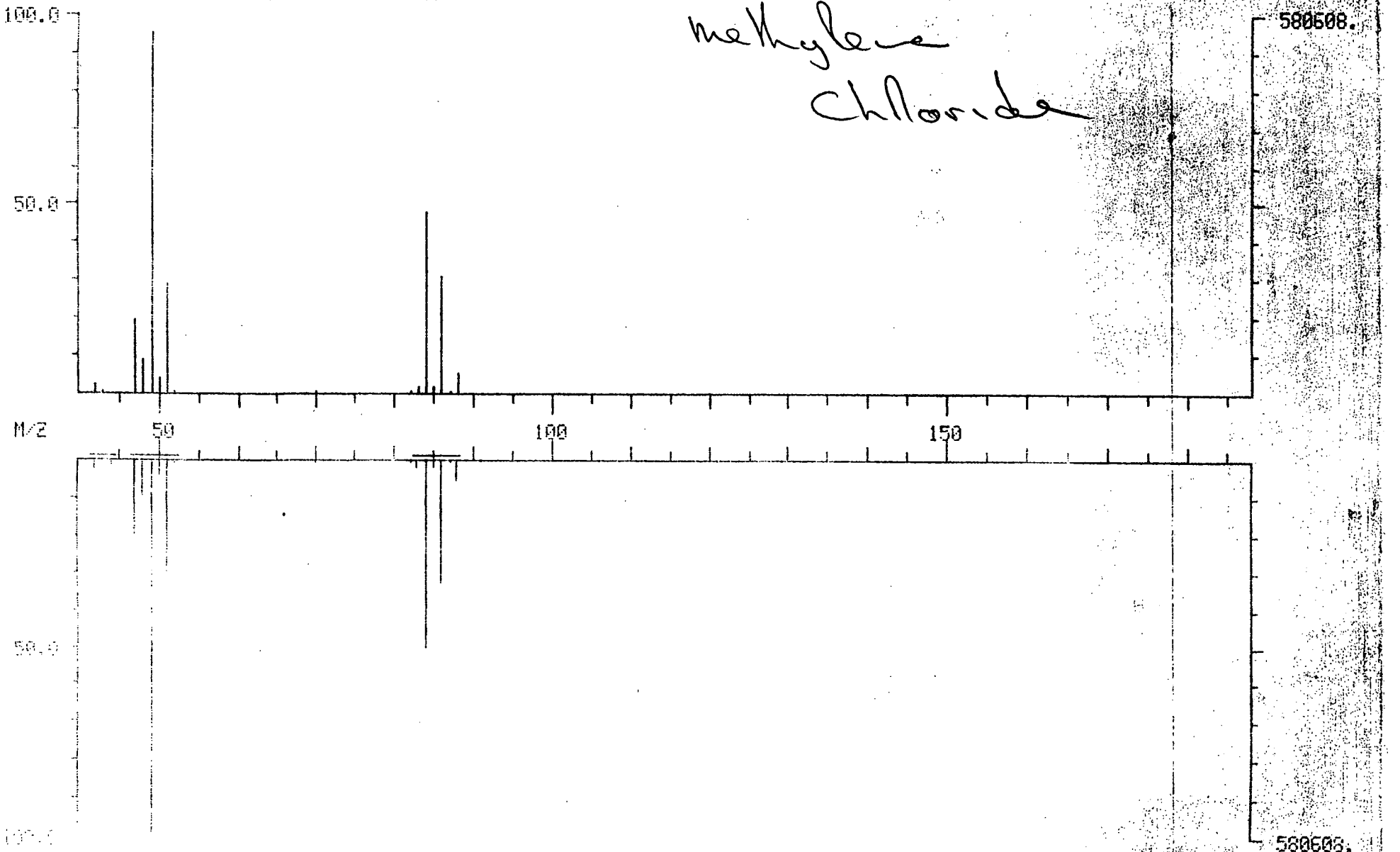
242

DUAL MASS SPECTRUM
08/25/85 20:08:00 + 5:33
SAMPLE: 6505%
CONDS.: 46gm
ENHANCED (S 15B 2N 0T)

DATA: PU6434 #111
CALI: PU6434 #2

BASE M/Z: 49/ 49
RIC: 1441790./ 1521660.

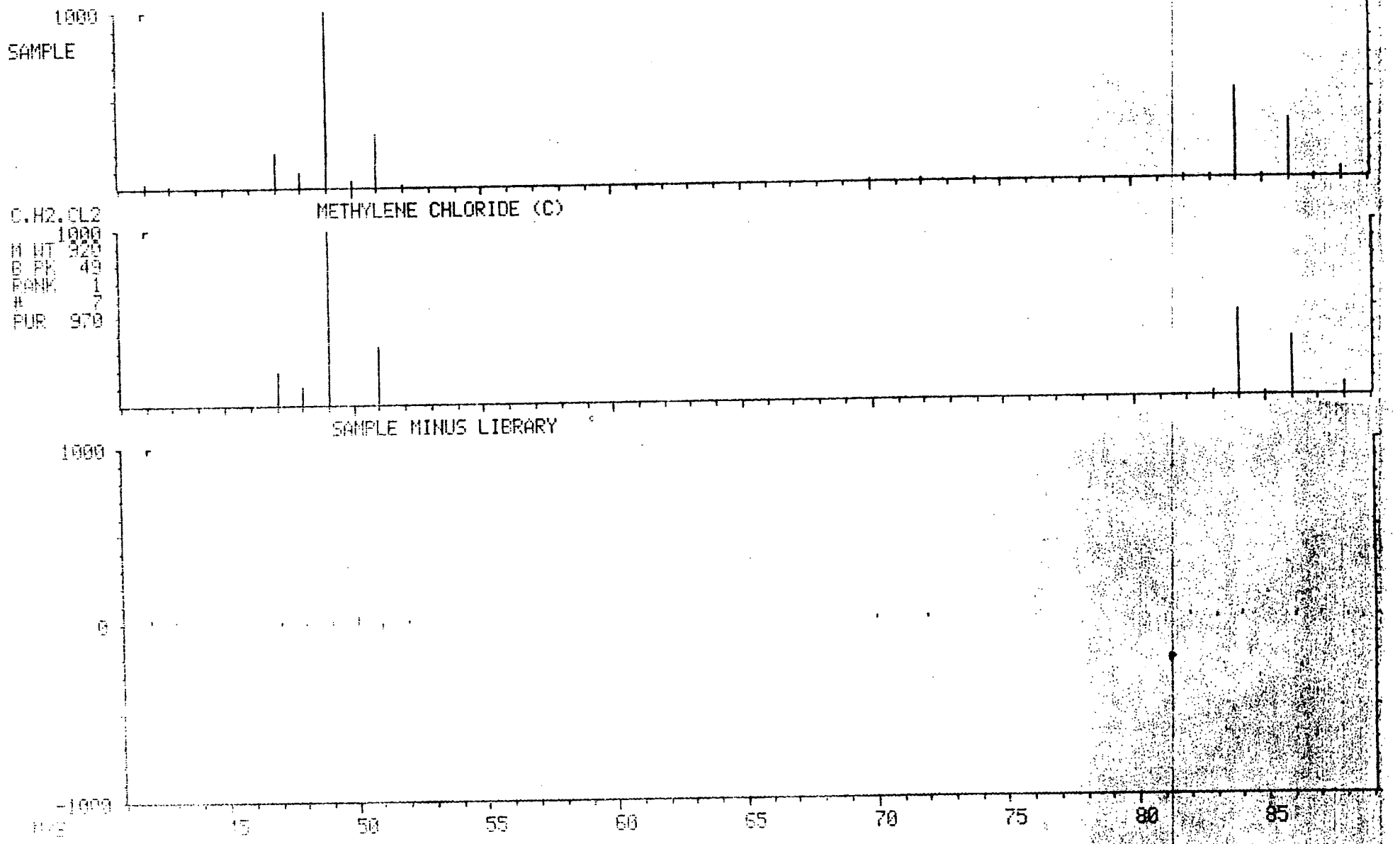
methylene Chloride



LIBRARY SEARCH
03/26/85 20:09:09 + 5:33
SAMPLE: 660538
46 gms
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6434 # 111
CALI: PU6434 # 2

BASE M/Z: 49
RIC: 1441790.

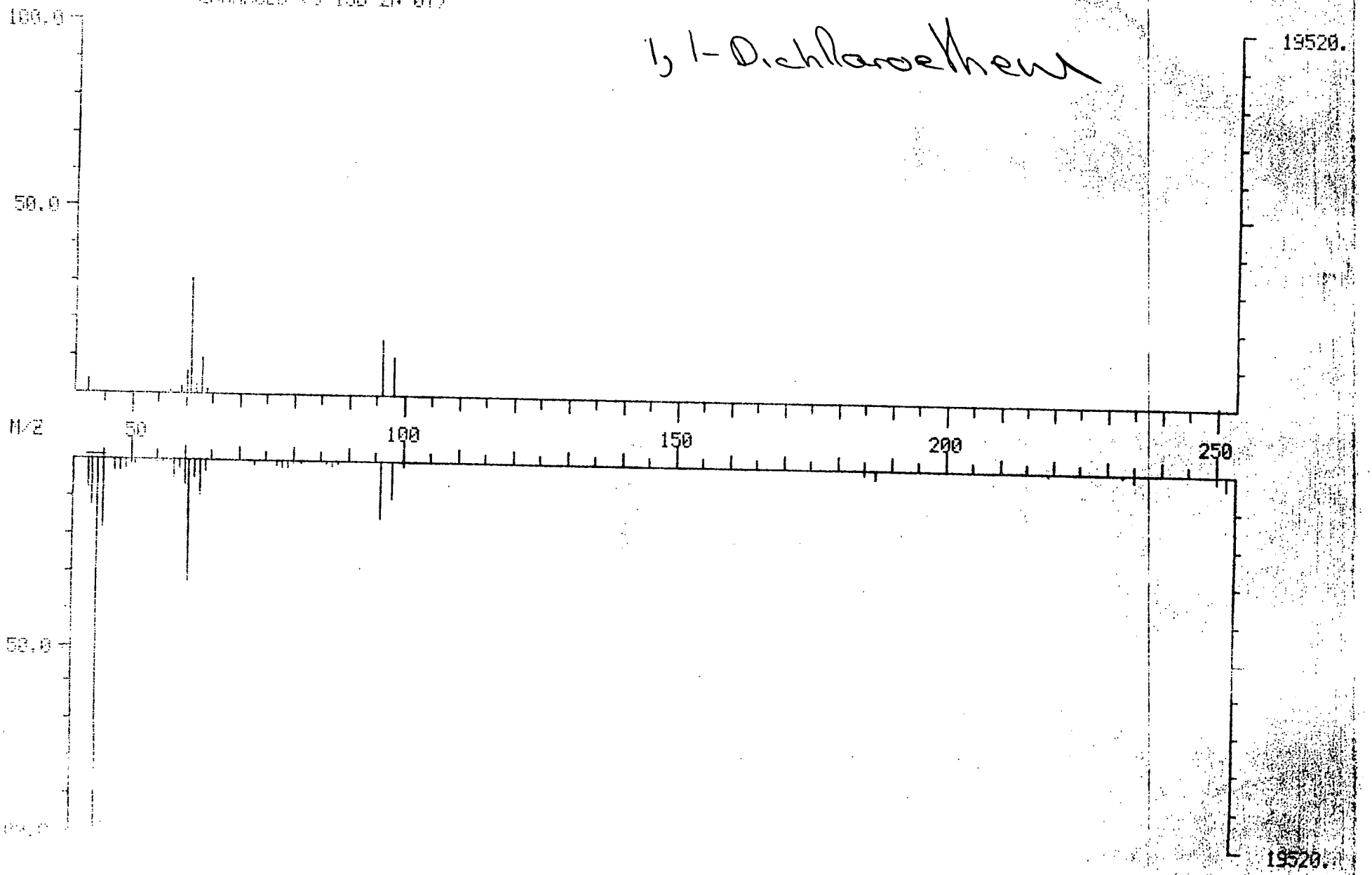


24

DUAL MASS SPECTRUM
09/26/86 20:09:00 + 9:24
SAMPLE: 6605X 46 gms
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6434 #188
CALI: PU6434 #2

BASE M/Z: 61/ 44
RIC: 15871./ 51455.

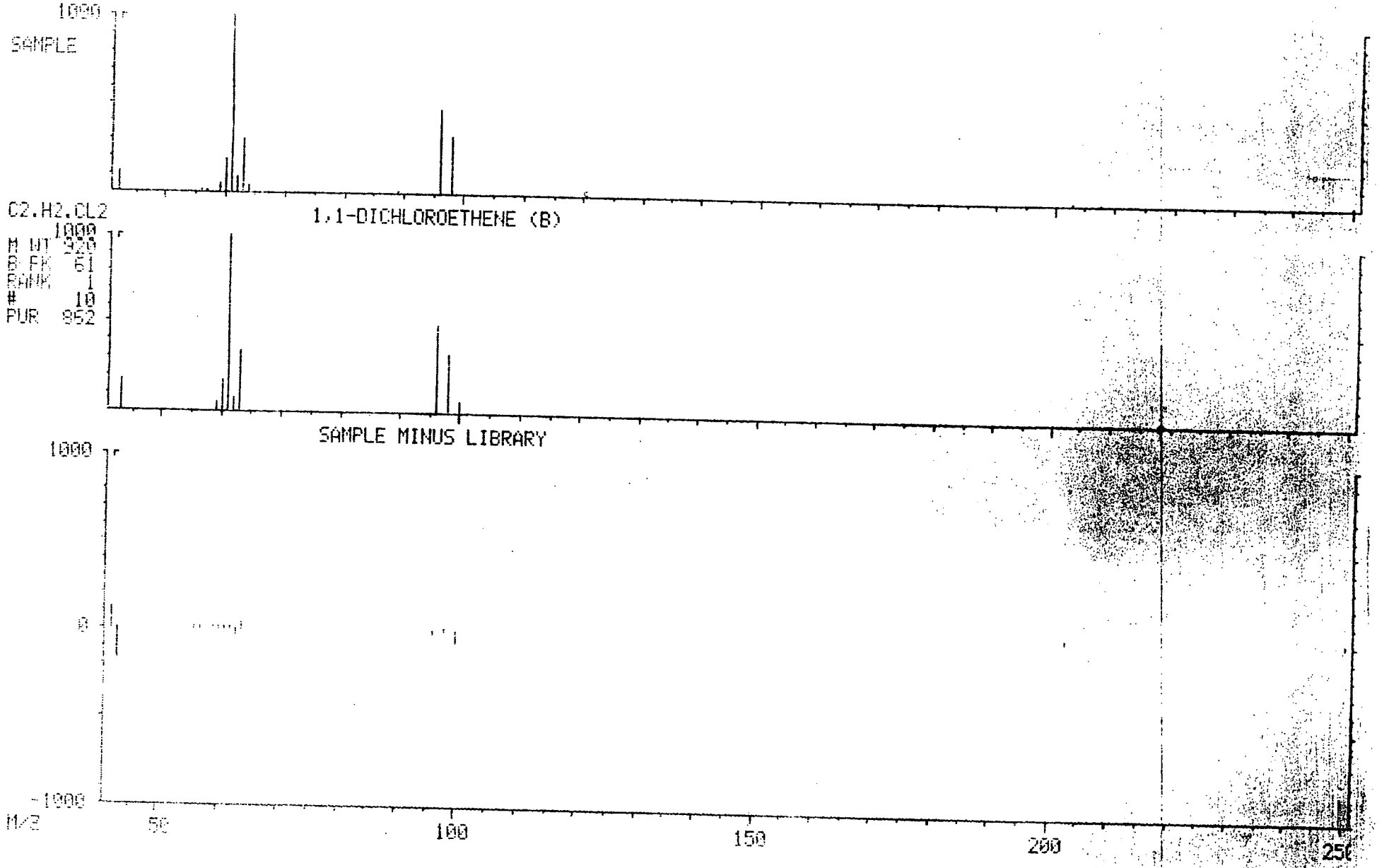


245

LIBRARY SEARCH
09/29/85 20:09:00 + 9:24
SAMPLE: 660546
CONDS.:
ENHANCED (S 150 2N 0T)

DATA: PU6434 # 188
CALI: PU6434 # 2

BASE M/Z: 61
RIC: 15871.



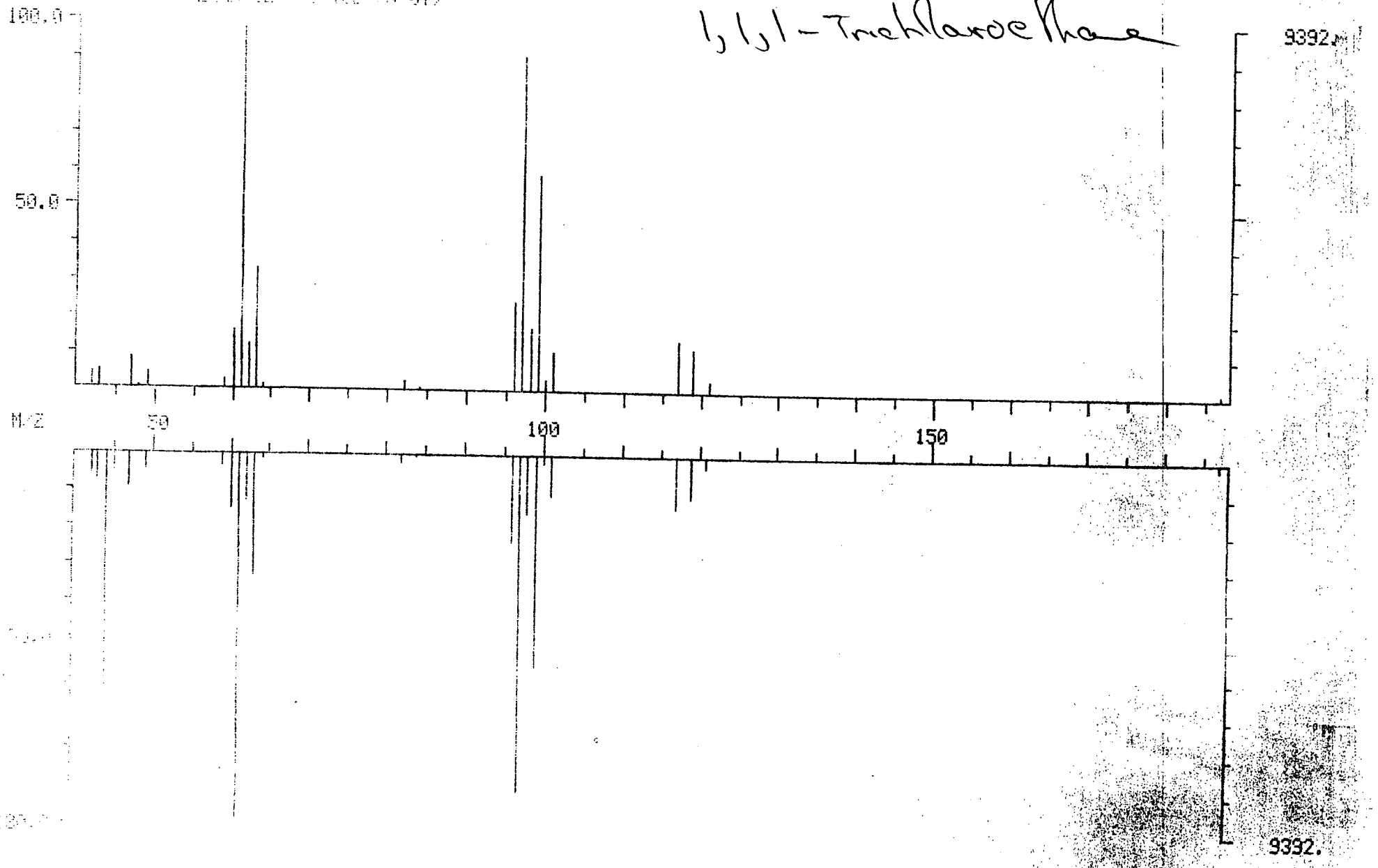
240

DUAL MASS SPECTRUM
[illegible] 20:09:00 + 15:51
SAMPLE: 6505 ~~X~~ 46 gms
CONDS.:
ENHANCEM [illegible] (5B 2N 0T)

DATA: PU6434 #317
CALI: PU6434 #2

BASE M/Z: 61/ 61
RIC: 39615./ 47615.

1,1,1 - Trichloroethane

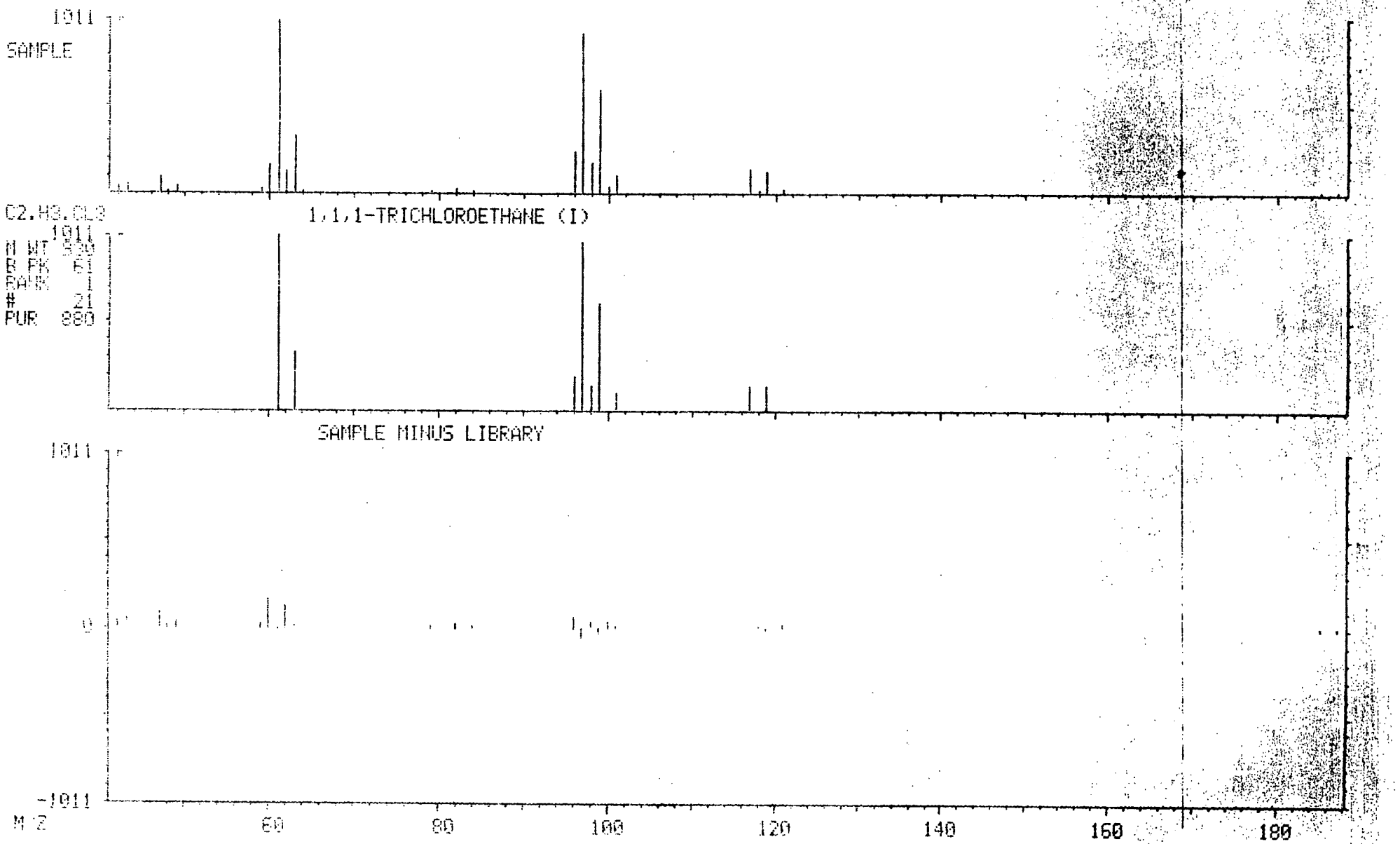


247

LIBRARY SEARCH
09/25/86 20:09:09 + 15:51
SAMPLE: 560526
CONDS.: 46 gms
ENHANCED (S 15B 2N 0T)

DATA: PU5434 # 317
CALI: PU5434 # 2

BASE M/Z: 61
RIC: 39615.



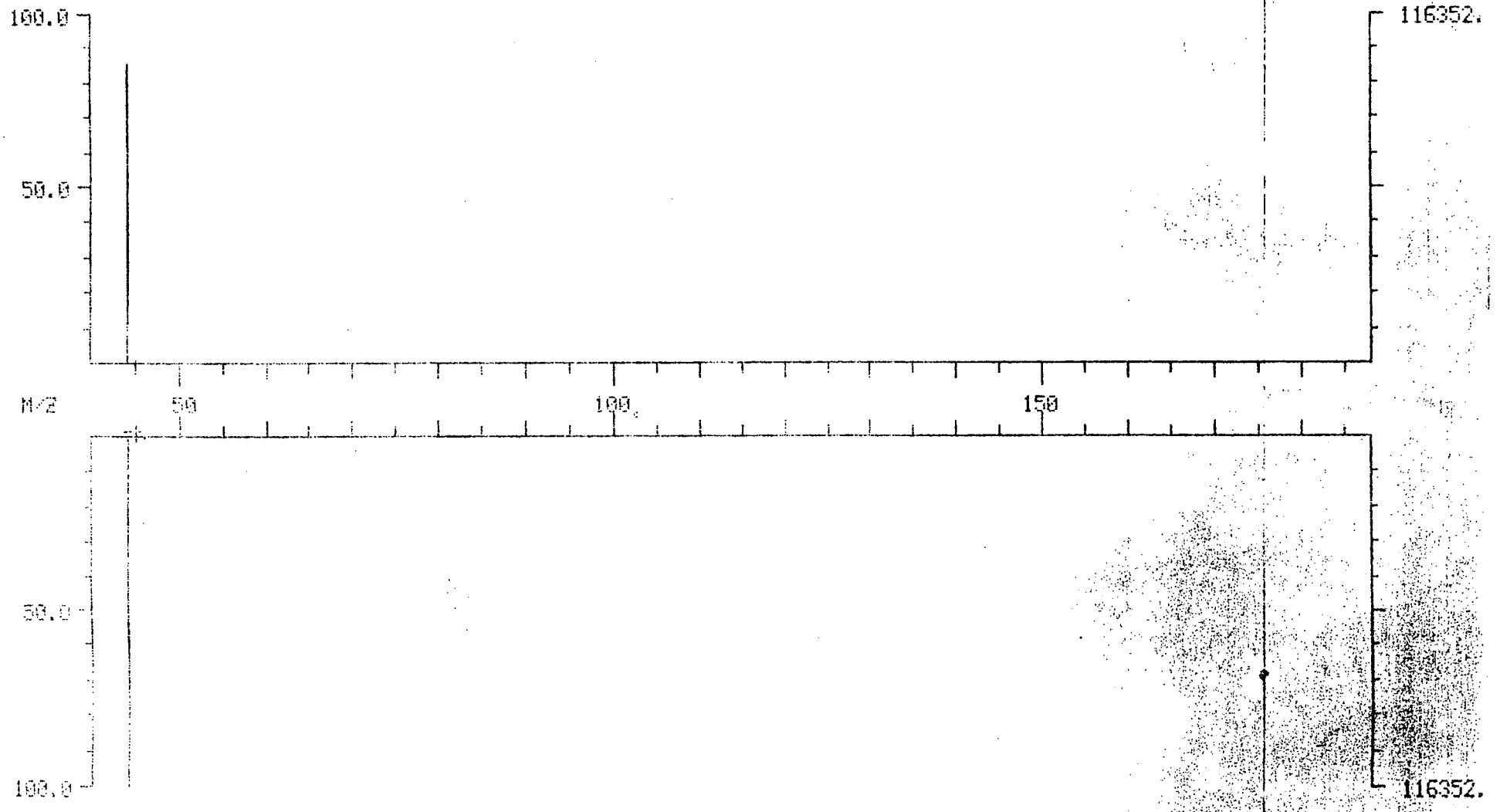
2842

DUAL MASS SPECTRUM
09/26/86 20:09:00 + 0:39
SAMPLE: 6600 X 46 gms
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6434 #13
CALI: PU6434 #2

BASE M/Z: 44/ 44
RIC: 100863. 118527.

unknown

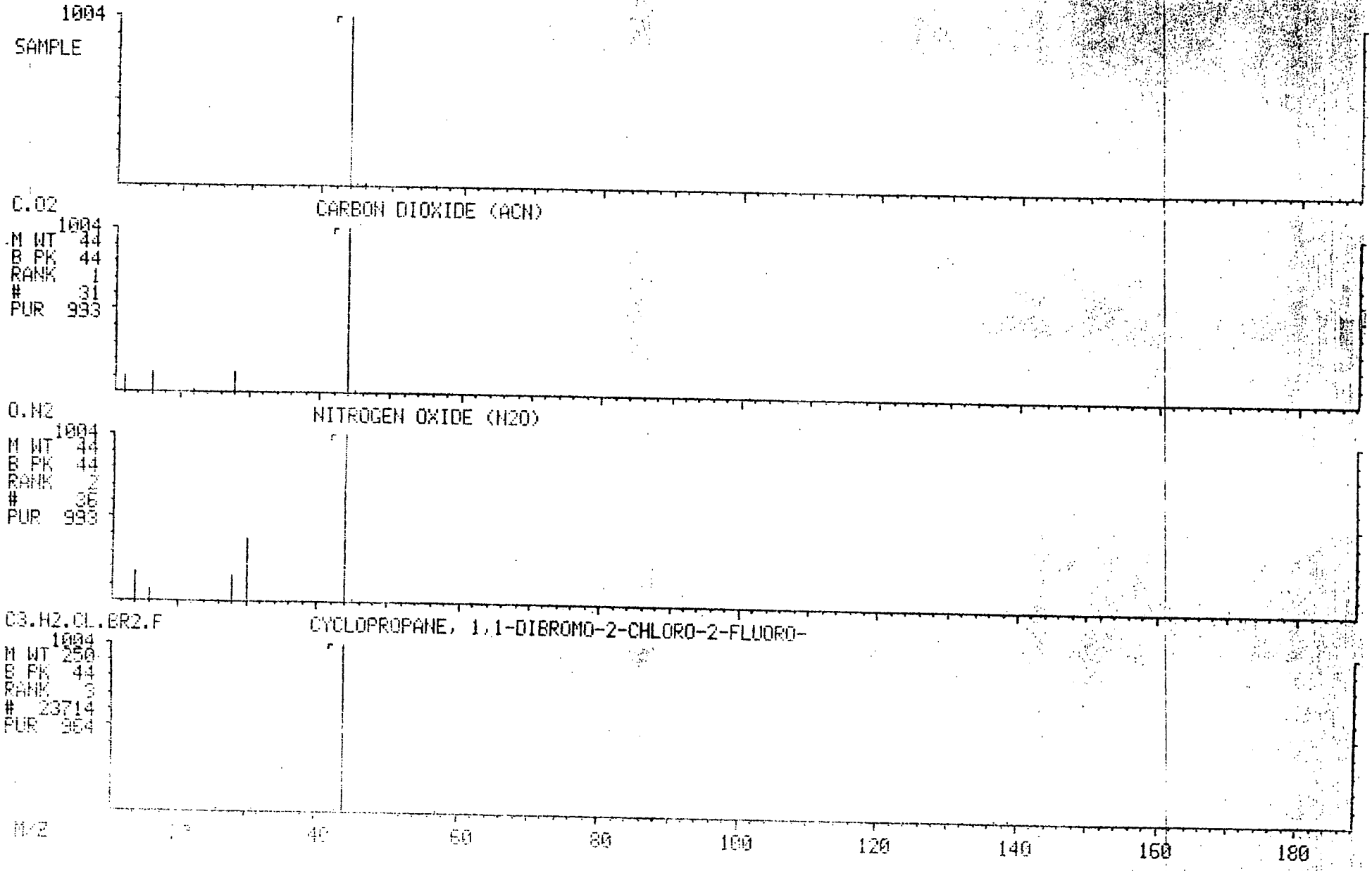


249

LIBRARY SEARCH
09/26/95 20:09:00 + 0:39
SAMPLE: 6605X 4 gmd
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU5434 # 13
CALI: PU5434 # 2

BASE M/Z: 44
RIC: 100863.



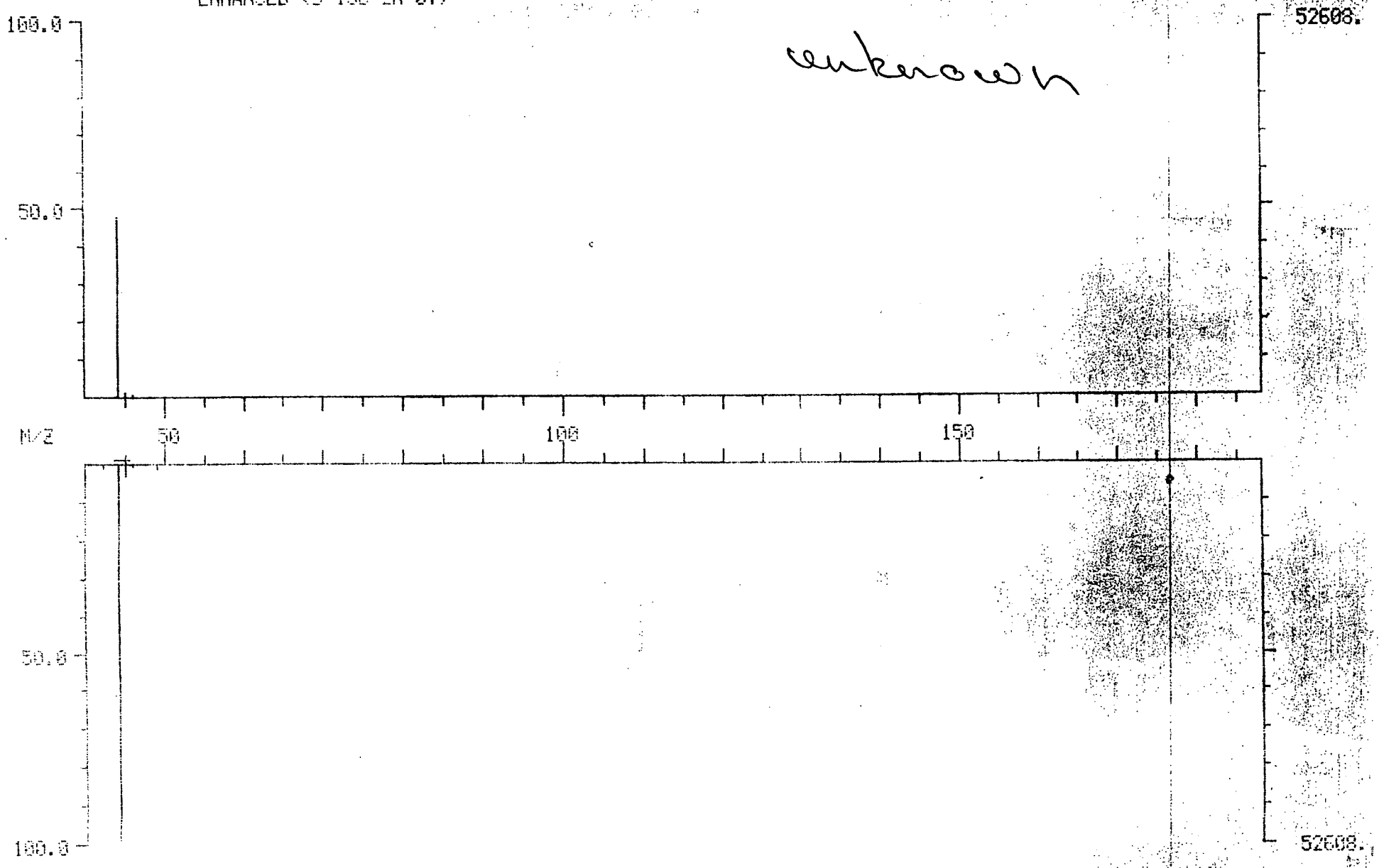
250

DUAL MASS SPECTRUM
09/26/86 20:09:00 + 7:30
SAMPLE: 680526 46gms
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6434 #150
CALI: PU6434 #2

BASE M/Z: 44/ 44
RIC: 26175./ 56447.

unknown

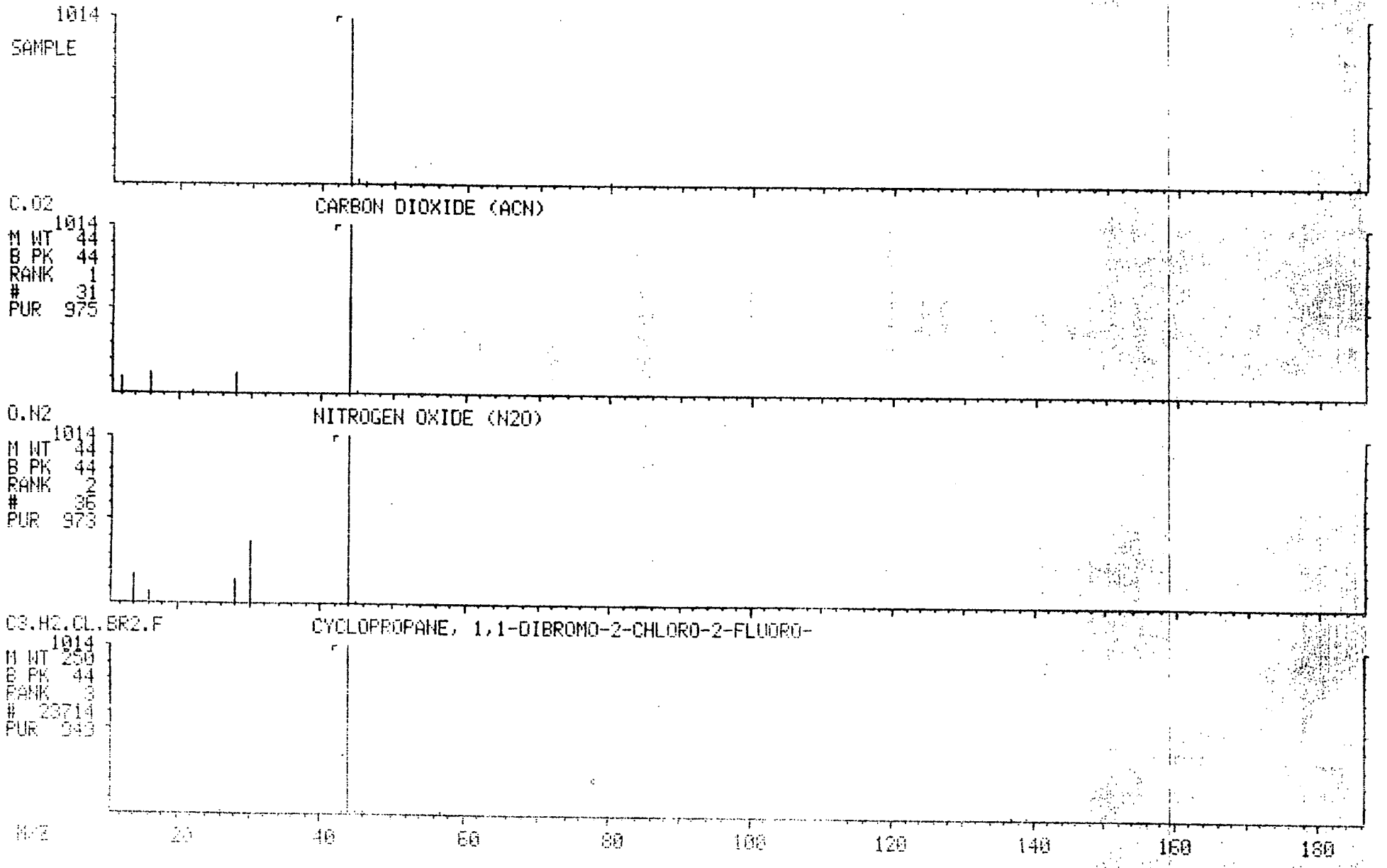


25

LIBRARY SEARCH
09/26/86 20:09:00 + 7:30
SAMPLE: 6605~~X~~ 46
CONDS.: Jmis
ENHANCED (S 15B 2N 0T)

DATA: PU6434 # 150
CALI: PU6434 # 2

BASE M/Z: 44
RIC: 26175.



262

QUANT REPORT

Operator ID: STEVE
Output File: ^P2507::OP
Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3

Quant Rev: 4
Quant Time: 861007 01:25
Injected at: 861007 00:40
Dilution Factor: 1.00

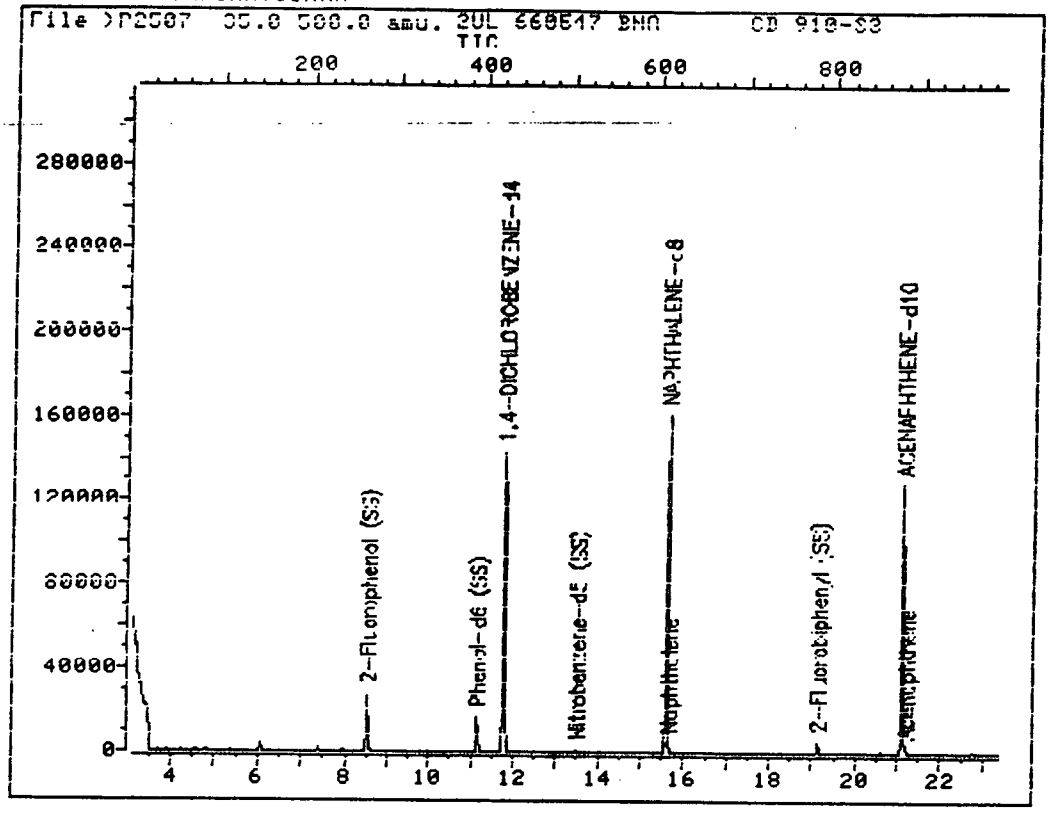
BTL#97

ID File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861006 19:44

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.77	425	56278	40.00	NG	91
3)	2-Fluorophenol (SS)	8.52	266	16868	10.71	NG	83
7)	Phenol-d6 (SS)	11.14	394	13949	8.00	NG	71
15)	*NAPHTHALENE-d8	15.62	613	178929	40.00	NG	50
16)	Nitrobenzene-d5 (SS)	13.49	509	1020	.62	NG	82
24)	Naphthalene	15.66	615	1727	.31	NG	41
27)	*ACENAPHTHENE-d10	21.12	882	66354	40.00	NG	94
31)	2-Fluorobiphenyl (SS)	19.13	785	5541	2.08	NG	94
34)	Acenaphthene	21.20	886	988	.38	NG	90
42)	2,4,6-Tribromophenol (SS)	23.55	1001	4504	7.59	NG	80
43)	*PHENANTHRENE-d10	25.57	1100	91792	40.00	NG	53
50)	Phenanthrene	25.64	1103	20882	7.46	NG	49
51)	Anthracene	25.76	1109	4130	1.46	NG	49
53)	Fluoranthene	29.26	1280	30702	19.78	NG	58
54)	*CHRYSENE-d12	33.70	1497	66052	40.00	NG	46
55)	Terphenyl-d14 (SS)	30.59	1345	2895	2.74	NG	41
57)	Pyrene	29.91	1312	27863	12.41	NG	36
60)	Benzo(a)Anthracene	33.64	1494	12775	6.18	NG	76
61)	bis(2-Ethylhexyl)Phthalate	34.27	1525	2977	1.68	NG	87
62)	Chrysene	33.76	1500	14723	6.99	NG	98
63)	*PERYLENE-d12	37.78	1696	76342	40.00	NG	77
65)	Benzo(b)Fluoranthene	36.77	1647	16724	5.93	NG	94
66)	Benzo(k)Fluoranthene	36.81	1649	15518M	5.89	NG	95
67)	Benzo(a)Pyrene	37.61	1688	14765	6.06	NG	90
68)	Indeno(1,2,3-cd)Pyrene	40.89	1848	13917	4.77	NG	84
70)	Benzo(g,h,i)Perylene	41.75	1890	14003	5.87	NG	65

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3

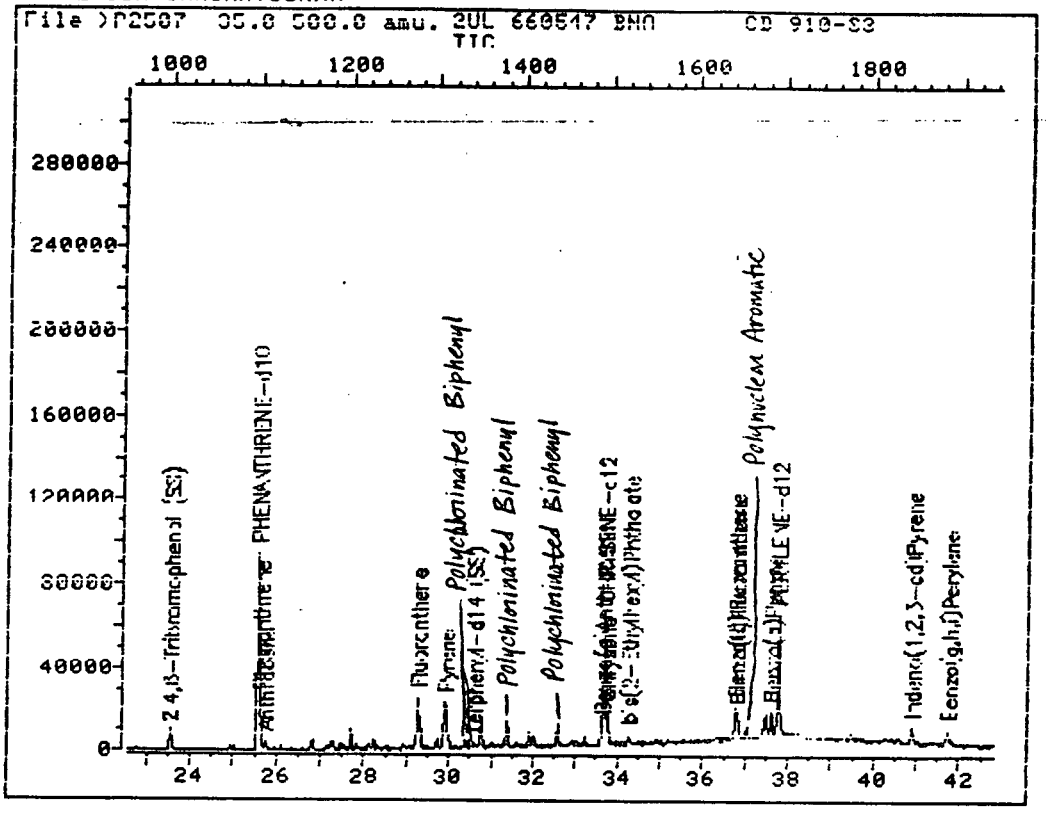
BTL#97

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861006 19:44

Operator ID: STEVE
Quant Time: 861007 01:25
Injected at: 861007 00:40

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3

BTL#97

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861006 19:44

Operator ID: STEVE
Quant Time: 861007 01:25
Injected at: 861007 00:40

TIC page 2 of 2

MS data file header from : >P2507

Sample: 2UL 660547 BNA Operator: STEVE MS 10/07/86 0:40
Misc : CD 910-S3 BTL#97
Sys. #: 1 MS model: 96 SW/HW rev.: CA ALS # : 0
Method file: EXTRII Tuning file: MT9301 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 220 Transfer line temp. : 280

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

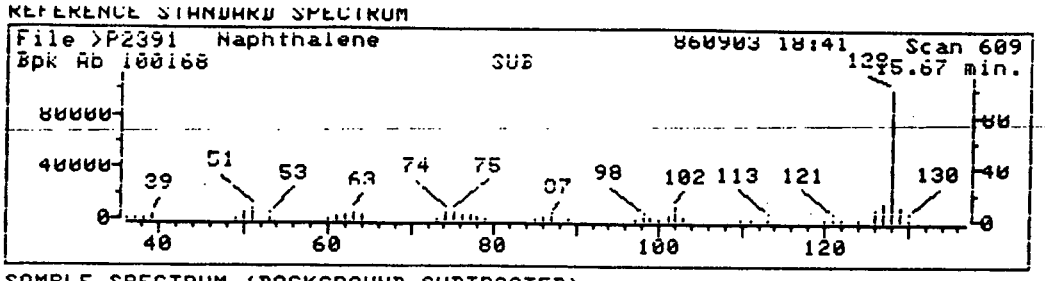
>P2507 2UL 660547 BNA CD 910-S3
35.01 500.0 CLP ADC TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	15.597	609	612	619	119666	543703	543703	100.00	26.56
2	21.198	878	886	889	35354	239797	239797	44.10	11.71
3	25.554	1096	1099	1114	61455	527853	525952	96.74	25.70
4	30.526	1340	1342	1350	6884	66062	46813	8.61	2.28
5	30.771	1352	1354	1356	14519	43042	33700	6.20	1.64
6	31.386	1379	1384	1387	11633	66068	43732	8.04	2.13
7	32.573	1439	1442	1446	10938	57867	32940	6.06	1.61
8	33.679	1489	1496	1515	15446	273197	171795	31.60	8.39
9	36.814	1643	1649	1654	12495	169788	84893	15.61	4.14
10	37.716	1683	1693	1706	24554	573076	323156	59.44	15.79

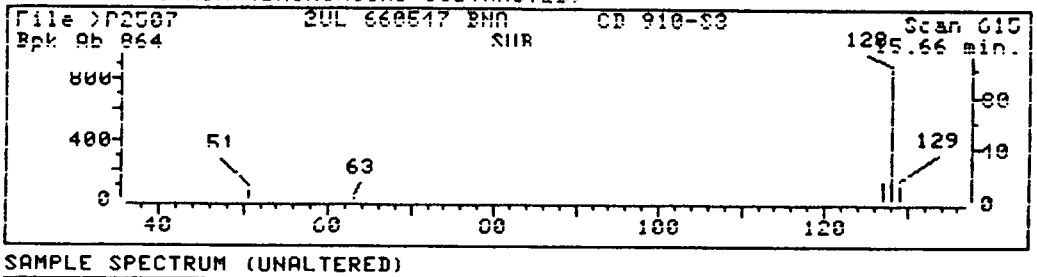
Sum of corrected areas: 2046481.

4:28 PM TUE., 7 OCT., 1986

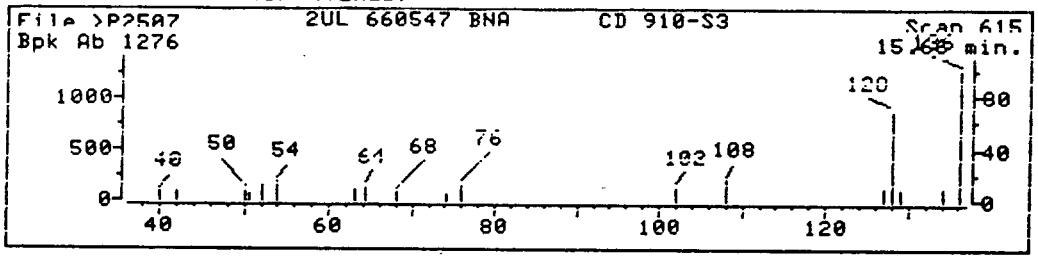
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

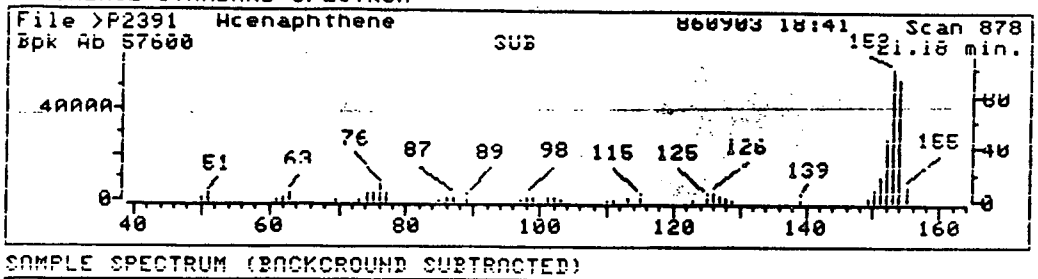


Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

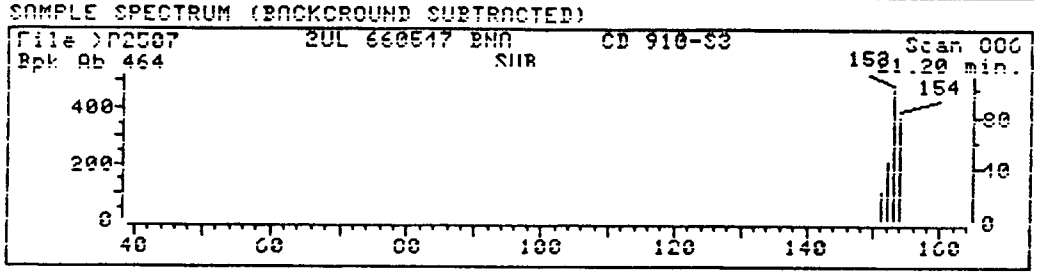
BTL#97

Compound No: 24
Compound Name: Naphthalene
Scan Number: 615
Retention Time: 15.66 min.
Area: 1727
Concentration: .31 NG
q-value: 41

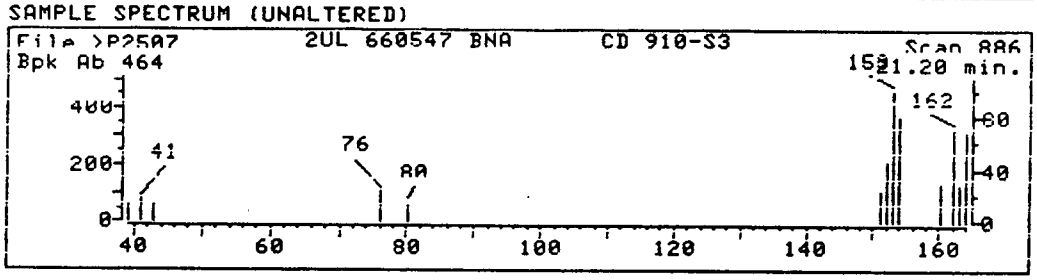
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

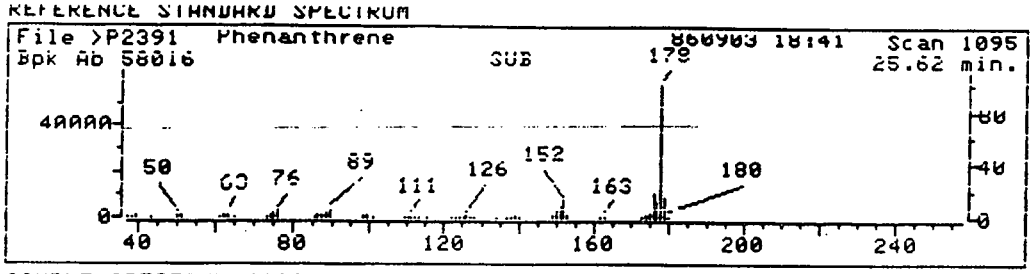


Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

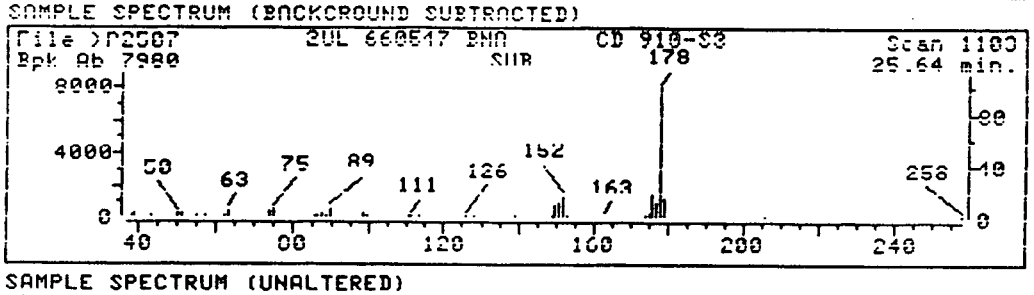
BTL#97

Compound No: 34
Compound Name: Acenaphthene
Scan Number: 886
Retention Time: 21.20 min.
Area: 988
Concentration: .38 NG
q-value: 90

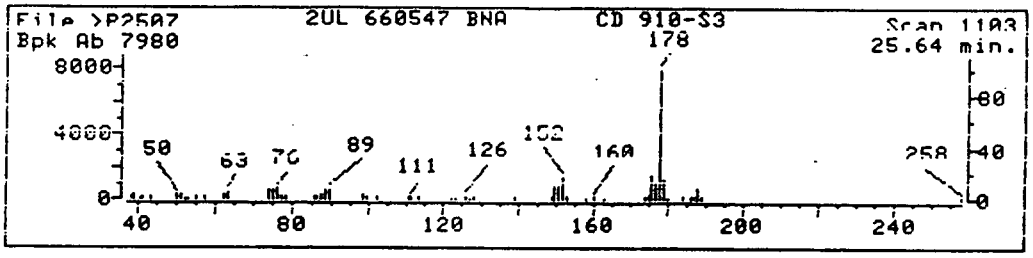
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

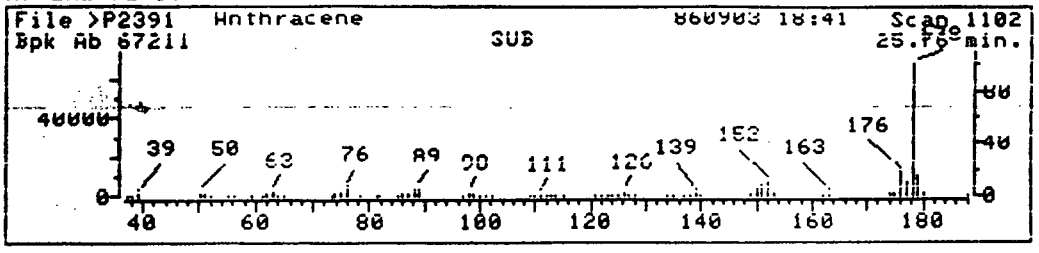


Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

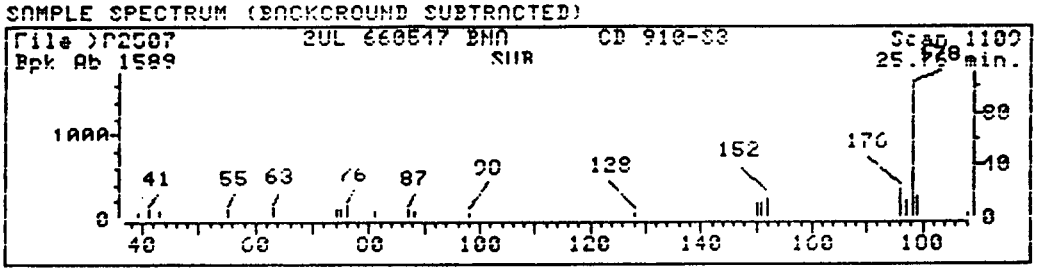
BTL#97

Compound No: 50
Compound Name: Phenanthrene
Scan Number: 1103
Retention Time: 25.64 min.
Area: 20882
Concentration: 7.46 NG
q-value: 49

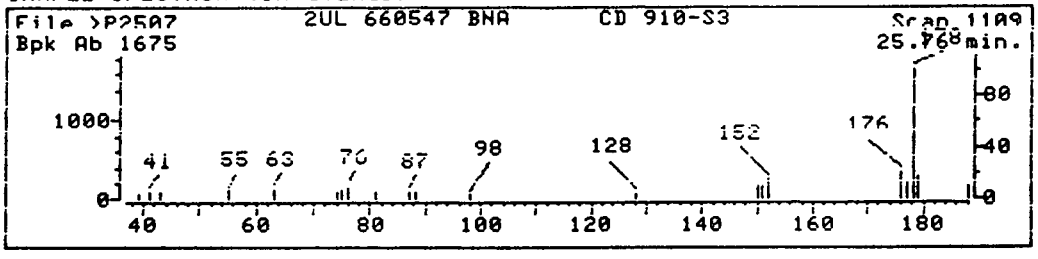
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

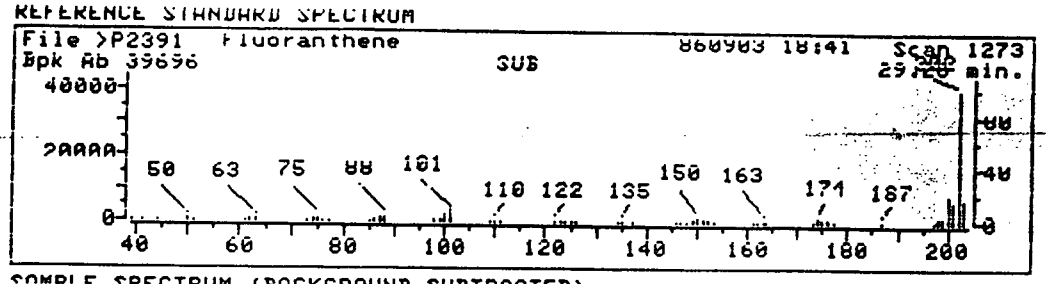


Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

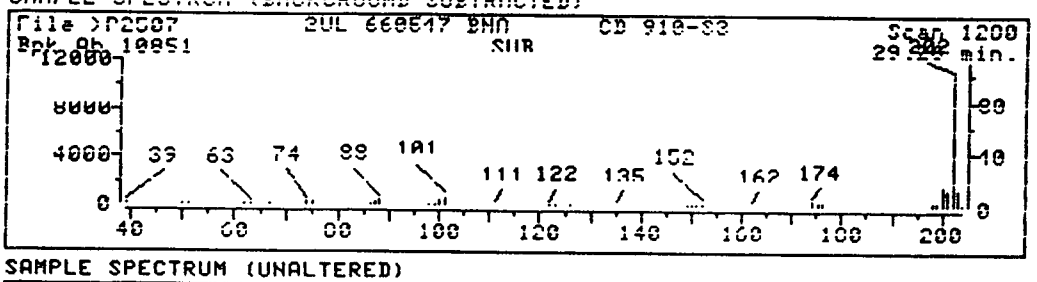
BTL#97

Compound No: 51
Compound Name: Anthracene
Scan Number: 1109
Retention Time: 25.76 min.
Area: 4130
Concentration: 1.46 NG
q-value: 49

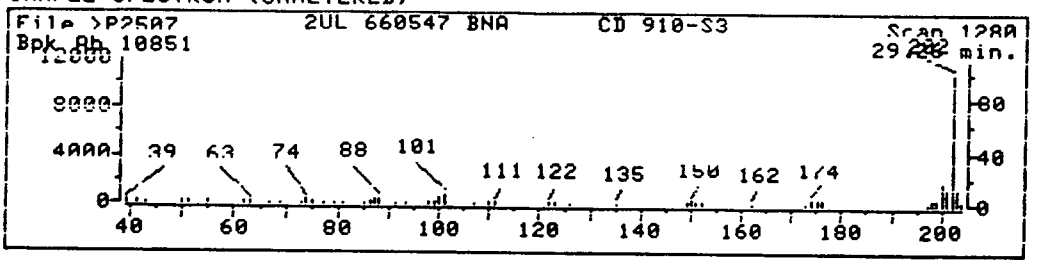
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

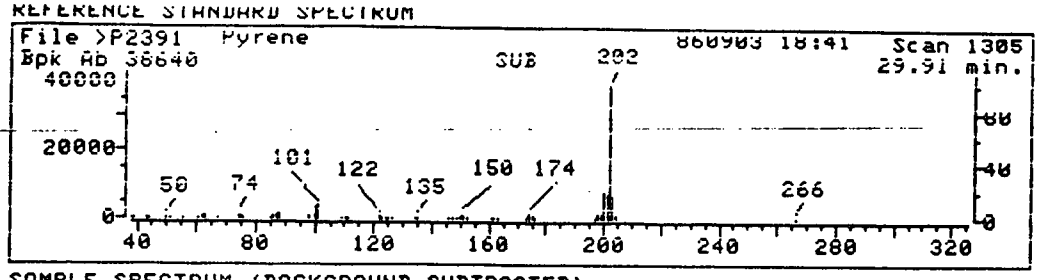


Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

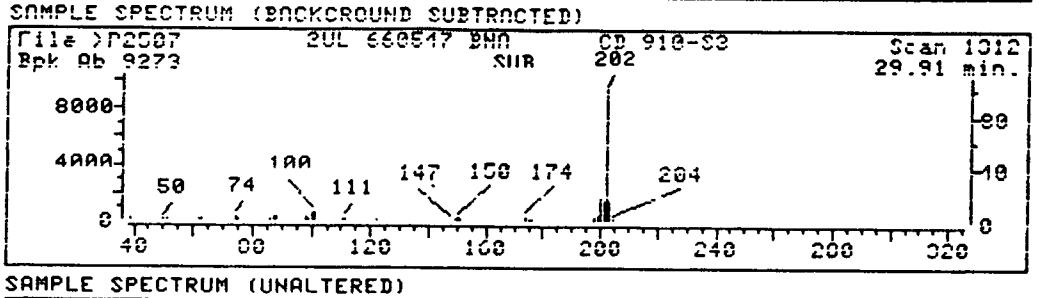
BTL#97

Compound No: 53
Compound Name: Fluoranthene
Scan Number: 1280
Retention Time: 29.26 min.
Area: 30702
Concentration: 19.78 NG
q-value: 58

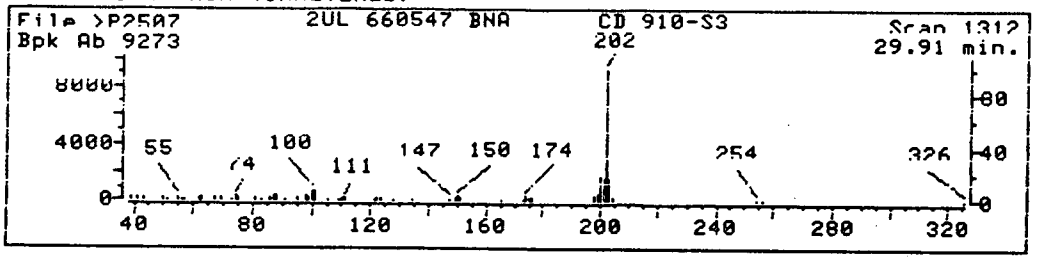
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

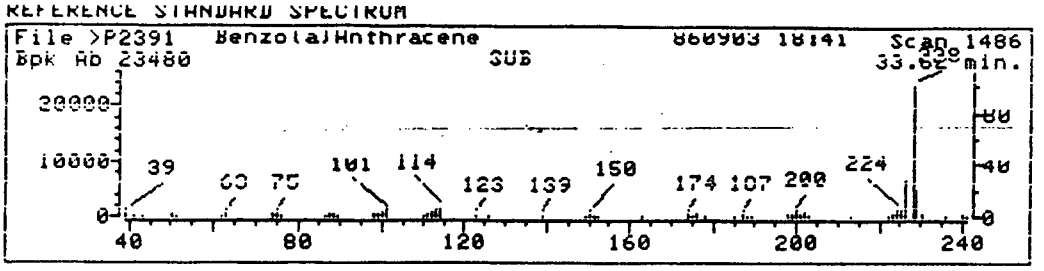


Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

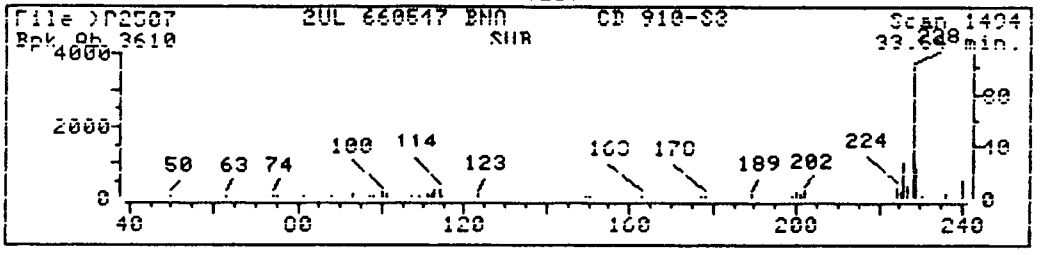
BTL#97

Compound No: 57
Compound Name: Pyrene
Scan Number: 1312
Retention Time: 29.91 min.
Area: 27863
Concentration: 12.41 NG
q-value: 36

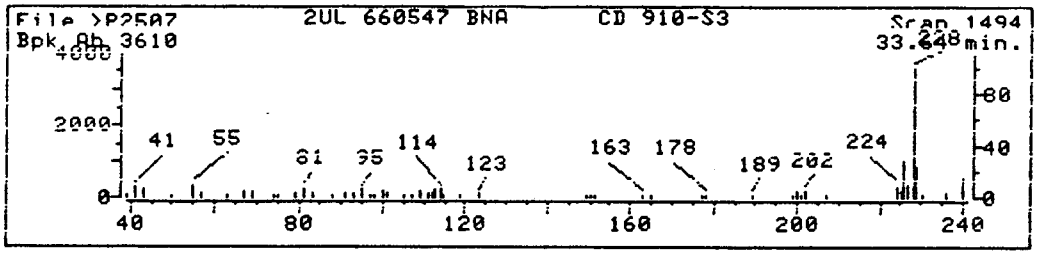
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

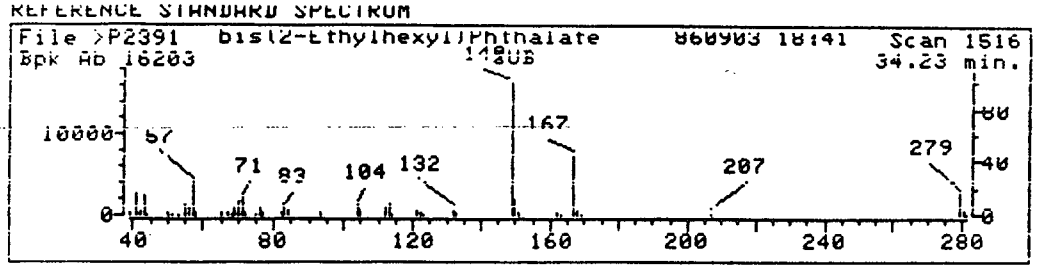


Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

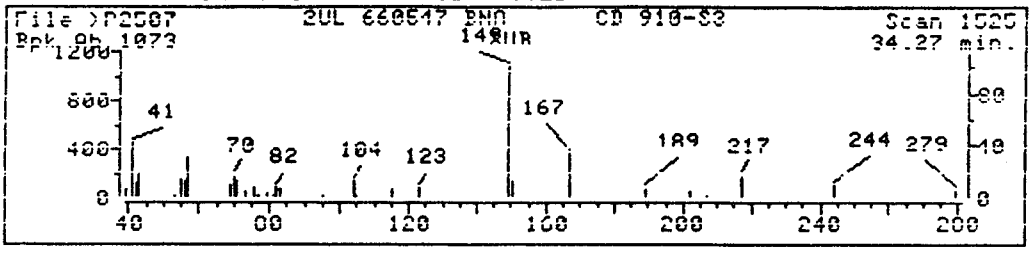
BTL#97

Compound No: 60
Compound Name: Benzo(a)Anthracene
Scan Number: 1494
Retention Time: 33.64 min.
Area: 12775
Concentration: 6.18 NG
q-value: 76

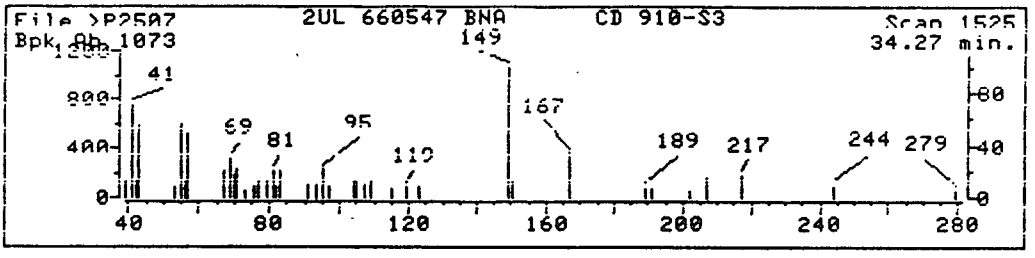
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

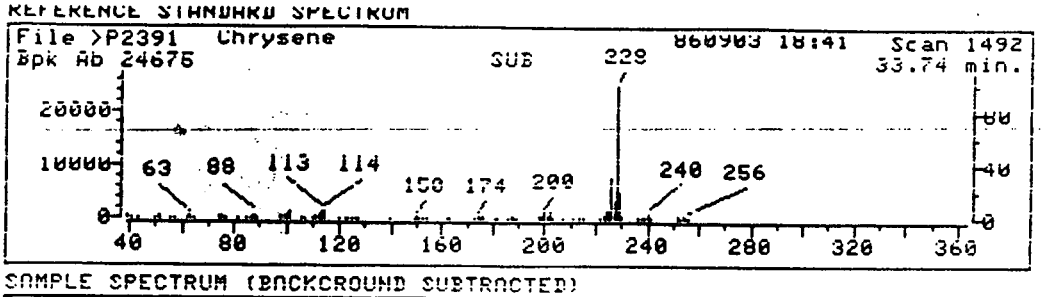


Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

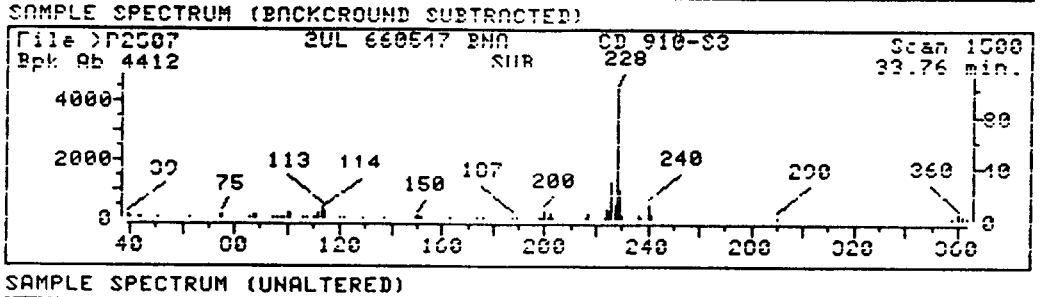
BTL#97

Compound No: 61
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1525
Retention Time: 34.27 min.
Area: 2977
Concentration: 1.68 NG
q-value: 87

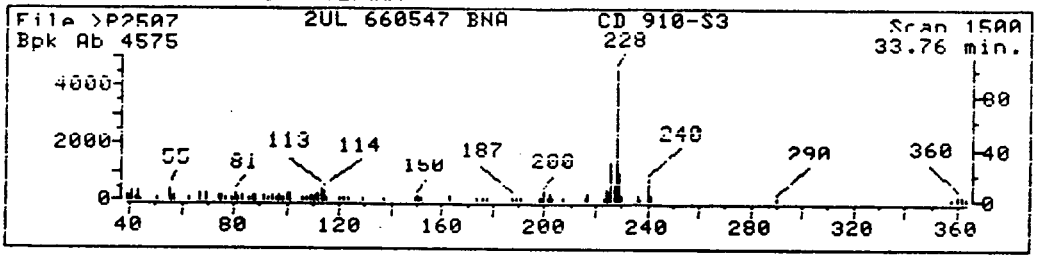
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

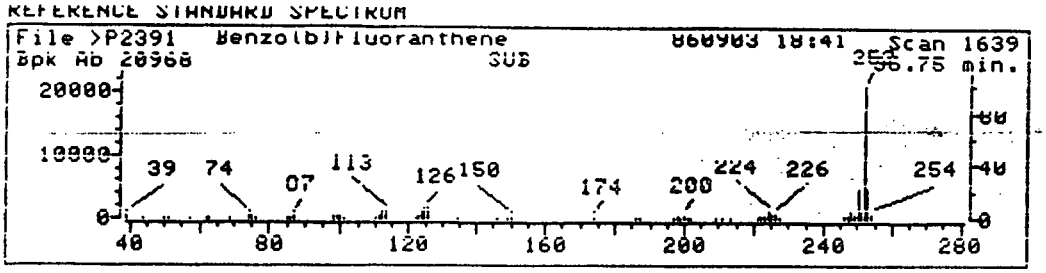


Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

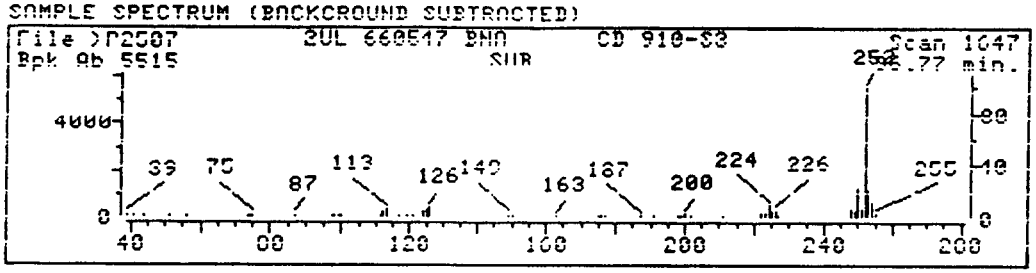
BTL#97

Compound No: 62
Compound Name: Chrysene
Scan Number: 1500
Retention Time: 33.76 min.
Area: 14723
Concentration: 6.99 NG
q-value: 98

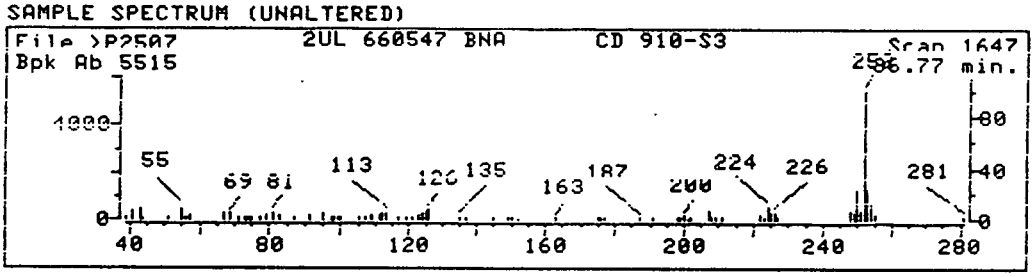
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

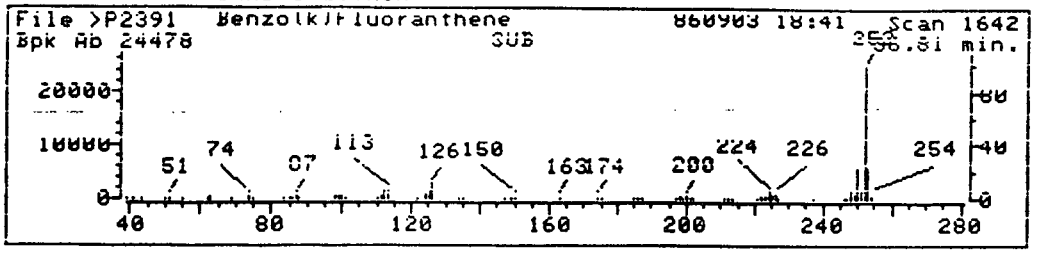


Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

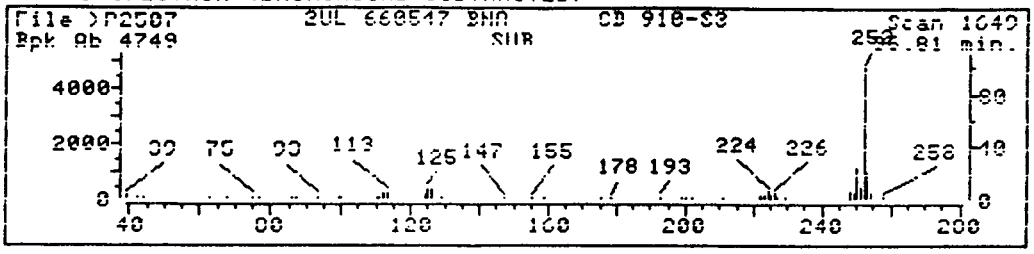
BTL#97

Compound No: 65
Compound Name: Benzo(b)Fluoranthene
Scan Number: 1647
Retention Time: 36.77 min.
Area: 16724
Concentration: 5.93 NG
q-value: 94

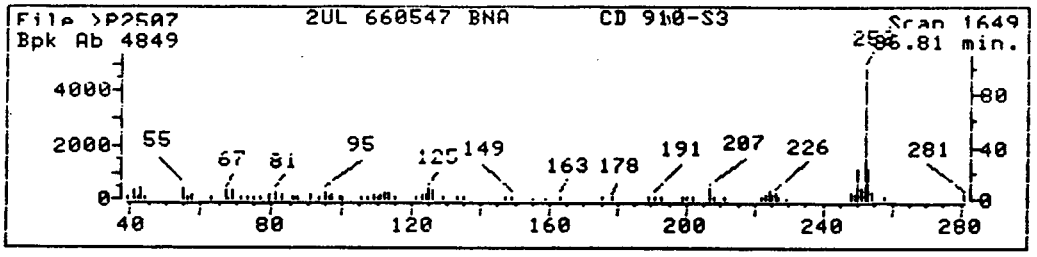
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



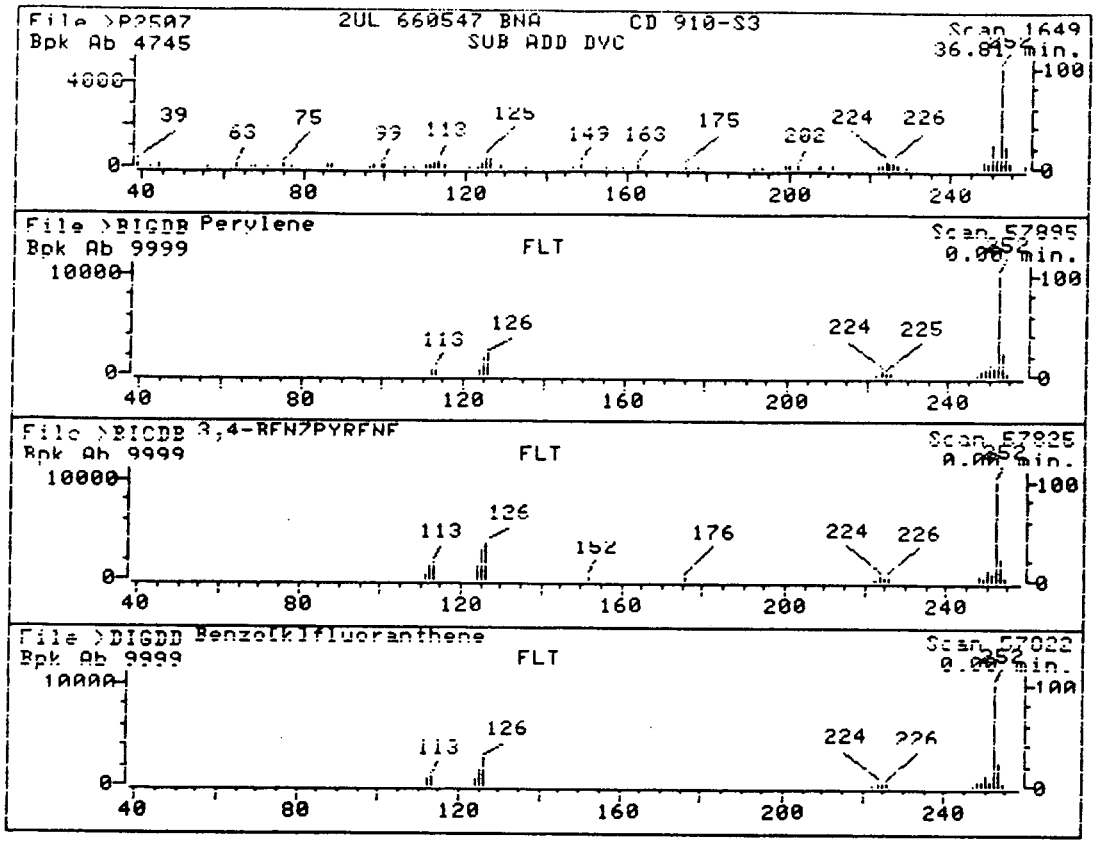
SAMPLE SPECTRUM (UNALTERED)



Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

BTL#97

Compound No: 66
Compound Name: Benzo(k)Fluoranthene
Scan Number: 1649
Retention Time: 36.81 min.
Area: 15518M
Concentration: 5.89 NG
q-value: 95

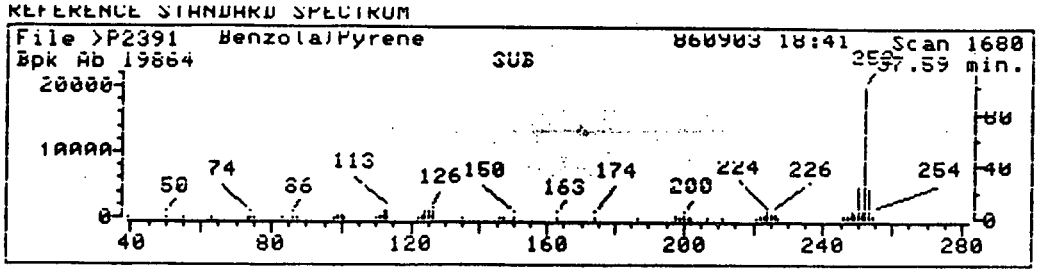


1.	Perylene	252	C20H12
2.	3,4-BENZPYRENE	252	C20H12
3.	Benzo[k]fluoranthene	252	C20H12
4.	Benzo[a]pyrene	252	C20H12
5.	Benzo[a]pyrene	252	C20H12

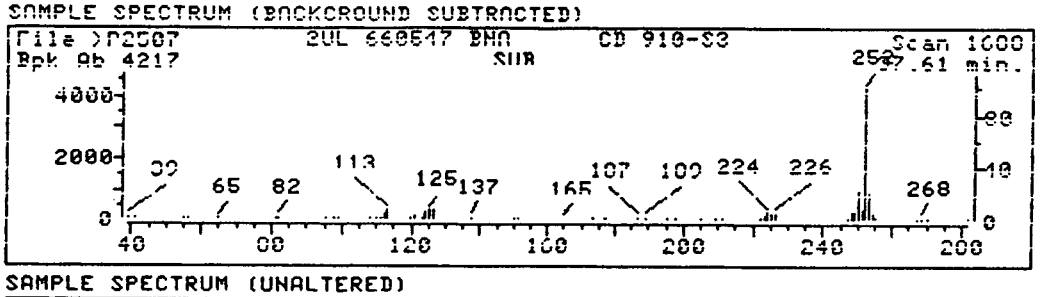
Sample file: >P2507 Spectrum #: 1649
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	83*	198550	57895	"BIGDB	76	62	2	0	91	9	54	59		
2.	81*	0	57825	"BIGDB	67	72	2	0	100	7	53	46		
3.	81*	207089	57822	"BIGDB	63	72	2	0	93	9	53	41		
4.	79*	50328	57894	"BIGDB	62	68	1	0	71	14	43	60		
5.	79*	50328	57819	"BIGDB	60	73	2	0	99	9	48	37		

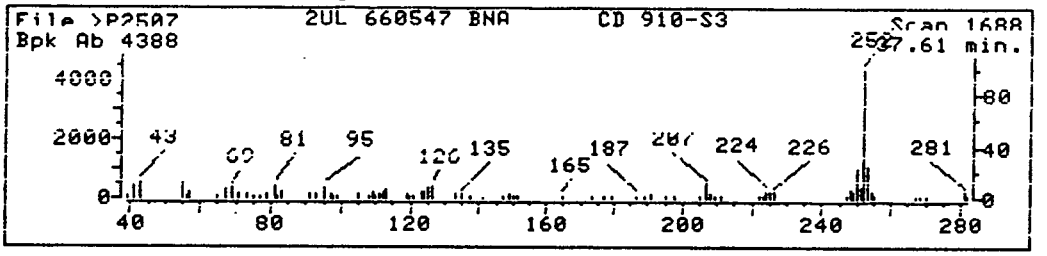
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

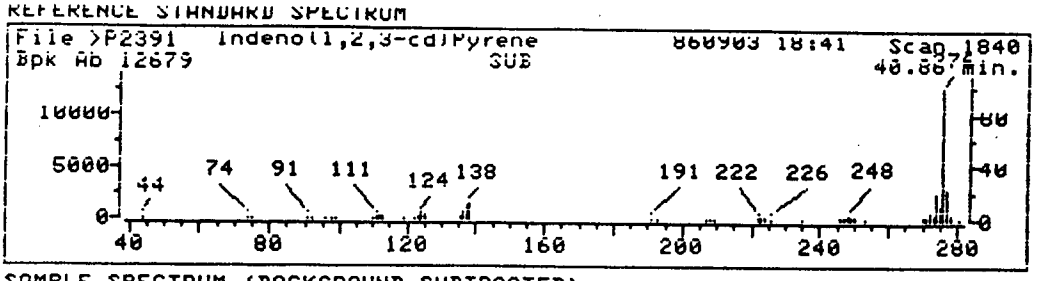


Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

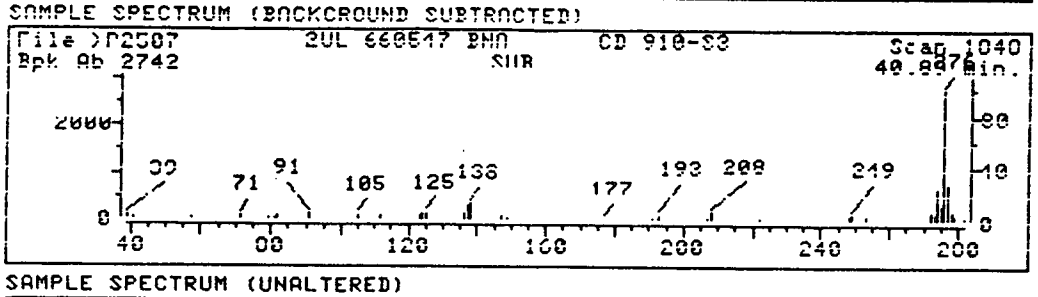
BTL#97

Compound No: 67
Compound Name: Benzo(a)Pyrene
Scan Number: 1688
Retention Time: 37.61 min.
Area: 14765
Concentration: 6.06 NG
q-value: 90

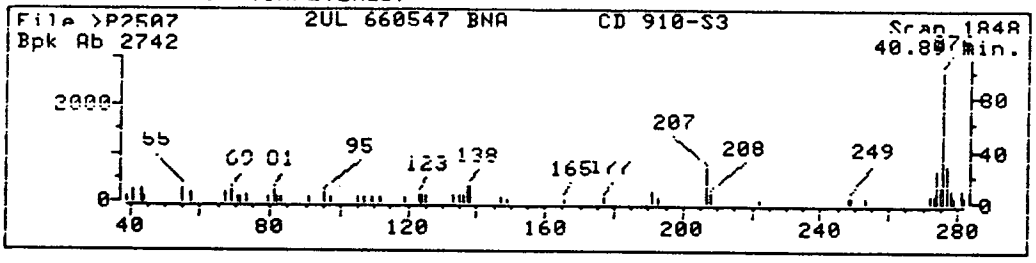
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

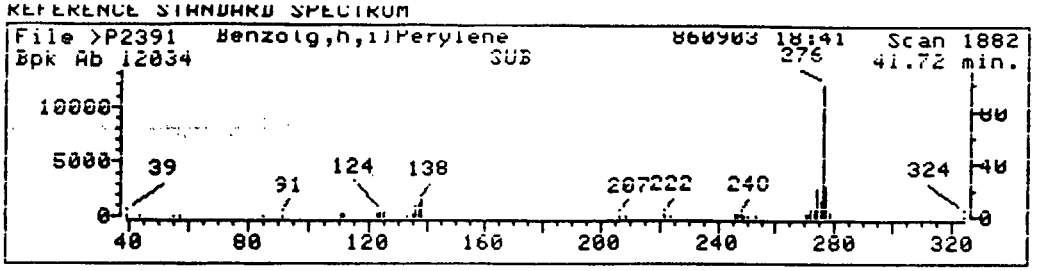


Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

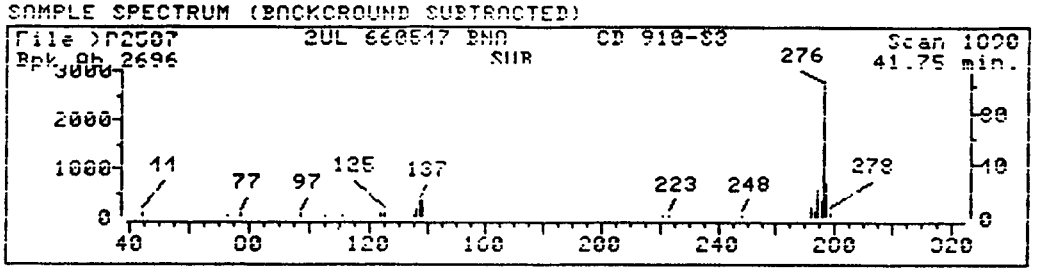
BTL#97

Compound No: 68
Compound Name: Indeno(1,2,3-cd)Pyrene
Scan Number: 1848
Retention Time: 40.89 min.
Area: 13917
Concentration: 4.77 NG
q-value: 84

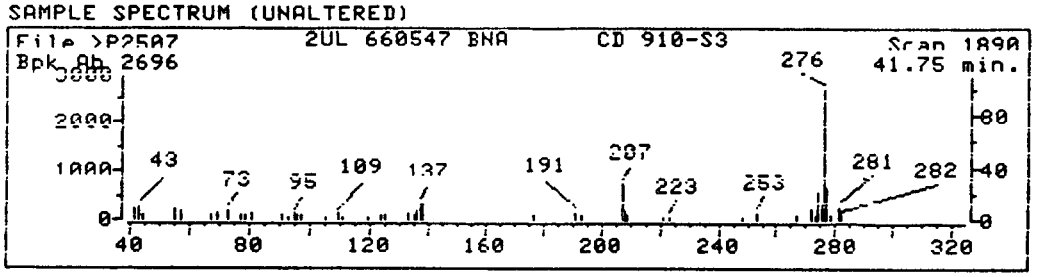
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



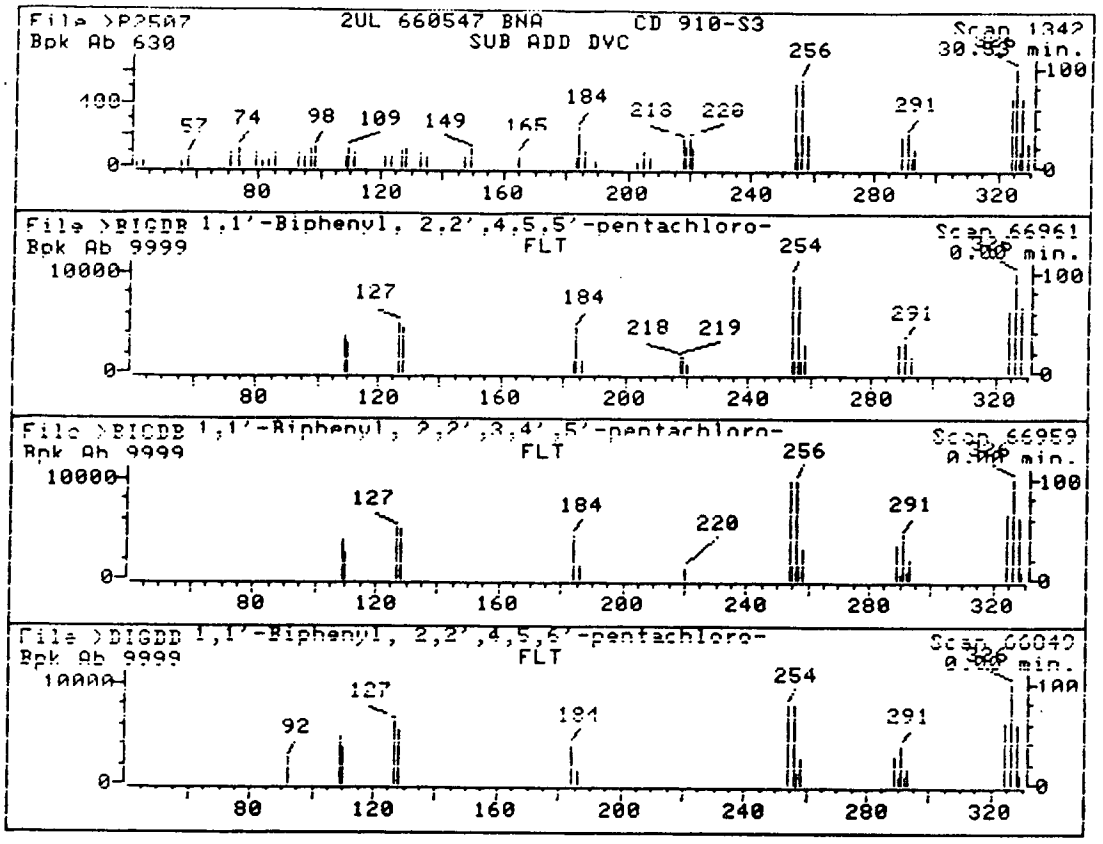
SAMPLE SPECTRUM (UNALTERED)



Data File: >P2507::D3
Name: 2UL 660547 BNA
Misc: CD 910-S3
Quant Time: 861007 01:25
Injected at: 861007 00:40

BTL#97

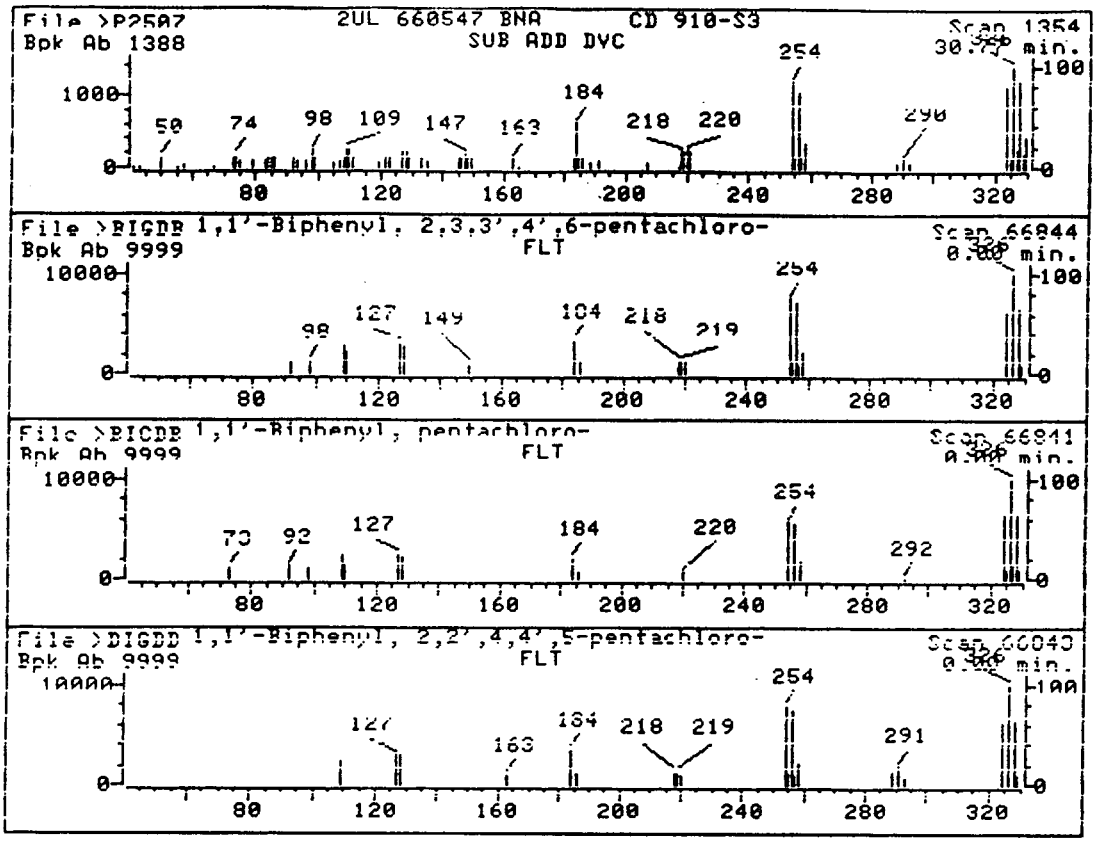
Compound No: 70
Compound Name: Benzo(g,h,i)Perylene
Scan Number: 1890
Retention Time: 41.75 min.
Area: 14003
Concentration: 5.87 NG
q-value: 65



1. 1,1'-Biphenyl, 2,2',4,5,5'-pentachloro- 324 C12H5Cl5
2. 1,1'-Biphenyl, 2,2',3,4',5'-pentachloro- 324 C12H5Cl5
3. 1,1'-Biphenyl, 2,2',4,5,6'-pentachloro- 324 C12H5Cl5
4. 1,1'-Biphenyl, pentachloro- 324 C12H5Cl5
5. 1,1'-Biphenyl, 2,2',3,3',4-pentachloro- 324 C12H5Cl5

Sample file: >P2507 Spectrum #: 1342
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

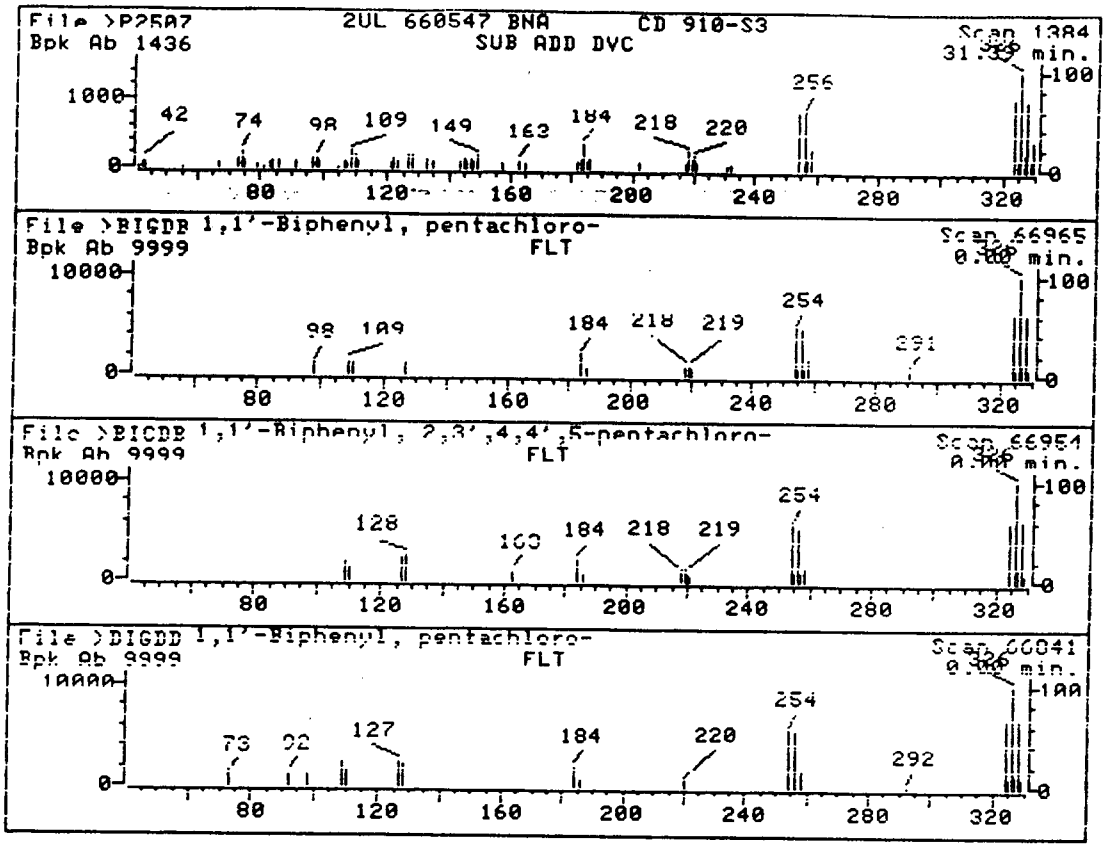
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	96*	37680732	66961	"BIGDB	146	65	3	0	85	0	72		96	
2.	95*	41464511	66959	"BIGDB	129	81	3	0	86	0	72		93	
3.	93*	68194069	66849	"BIGDB	120	87	3	0	100	0	68		86	
4.	93*	25429292	66962	"BIGDB	118	86	3	0	97	2	68		80	
5.	89*	52663624	66847	"BIGDB	99	111	3	0	83	2	66		63	



1. 1,1'-Biphenyl, 2,3,3',4',6-pentachloro- 324 C12H5Cl5
2. 1,1'-Biphenyl, pentachloro- 324 C12H5Cl5
3. 1,1'-Biphenyl, 2,2',4,4',5-pentachloro- 324 C12H5Cl5
4. 1,1'-Biphenyl, 2,3,3',4,4'-pentachloro- 324 C12H5Cl5
5. 1,1'-Biphenyl, 2,2',4,5,6'-pentachloro- 324 C12H5Cl5

Sample file: >P2507 Spectrum #: 1354
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

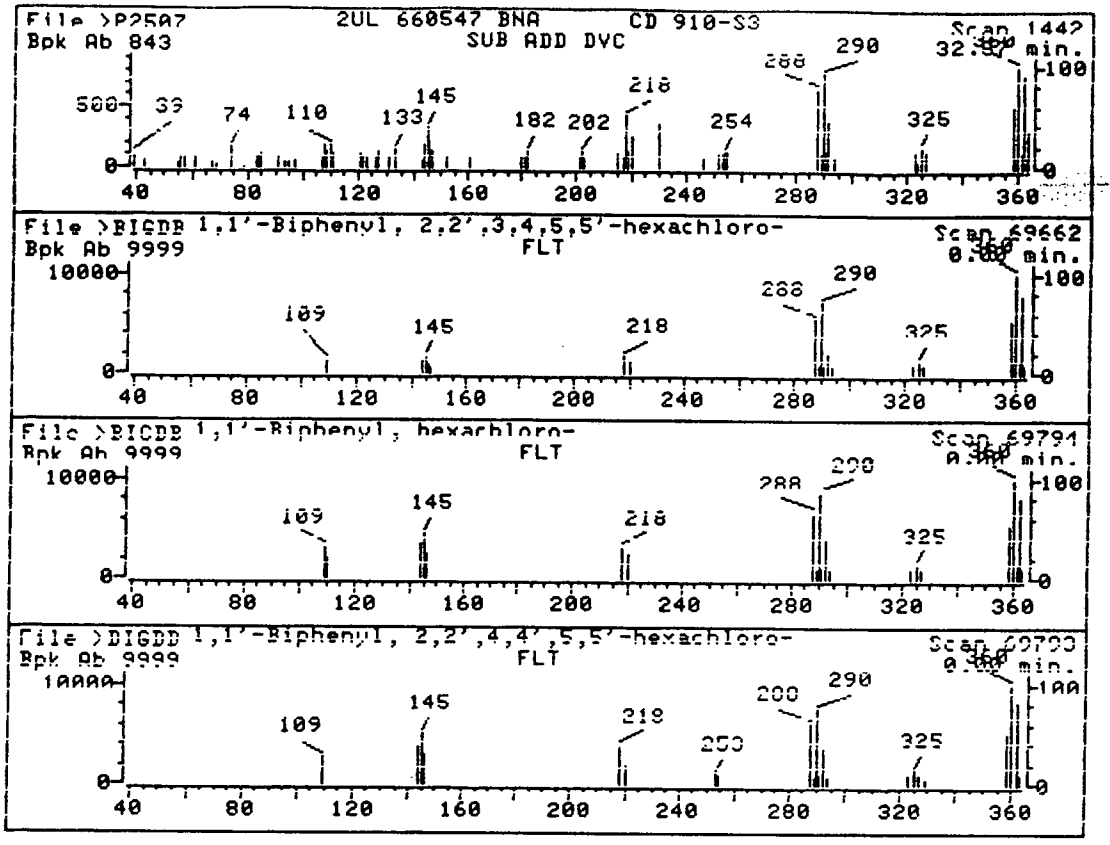
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	96*	38380039	66844	"BIGDB	141	61	3	0	100	2	72		96	
2.	93*	25429292	66841	"BIGDB	118	73	3	0	100	4	68		80	
3.	89*	38380017	66843	"BIGDB	97	104	3	0	100	2	66		61	
4.	89*	32598144	66842	"BIGDB	123	73	3	0	100	10	62		89	
5.	87*	68194069	66849	"BIGDB	79	128	3	0	95	2	63		44	



1. 1,1'-Biphenyl, pentachloro- 324 C12H5Cl5
2. 1,1'-Biphenyl, 2,3',4,4',5-pentachloro- 324 C12H5Cl5
3. 1,1'-Biphenyl, pentachloro- 324 C12H5Cl5
4. 1,1'-Biphenyl, 2,3,3',4',6-pentachloro- 324 C12H5Cl5
5. 1,1'-Biphenyl, 2,3,3',4,4'-pentachloro- 324 C12H5Cl5

Sample file: >P2507 Spectrum #: 1384
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	96*	25429292	66965	"BIGDB	144	40	3	0	100	6	68		96	
2.	96*	31508006	66954	"BIGDB	135	47	3	0	100	3	72		94	
3.	94*	25429292	66841	"BIGDB	127	64	3	0	100	0	72		92	
4.	89*	38380039	66844	"BIGDB	124	78	3	0	77	6	62		89	
5.	89*	32598144	66842	"BIGDB	101	95	3	0	100	3	66		66	



1. 1,1'-Biphenyl, 2,2',3,4,5,5'-hexachloro- 358 C12H4Cl6
2. 1,1'-Biphenyl, hexachloro- 358 C12H4Cl6
3. 1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro- 358 C12H4Cl6
4. 1,1'-Biphenyl, 2,2',3,3',5,6'-hexachloro- 358 C12H4Cl6
5. 1,1'-Biphenyl, 2,2',3,3',4,4'-hexachloro- 358 C12H4Cl6

Sample file: >P2507 Spectrum #: 1442
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	98*	52712046	69662	"BIGDB	111	92	0	0	100	20	60		99	
2.	96*	26601649	69794	"BIGDB	148	71	3	0	100	8	68		96	
3.	95*	35065271	69793	"BIGDB	135	75	3	0	100	8	68		94	
4.	94*	52744135	69676	"BIGDB	133	95	3	0	89	12	64		94	
5.	89*	38380073	69788	"BIGDB	112	93	0	0	82	46	40		99	

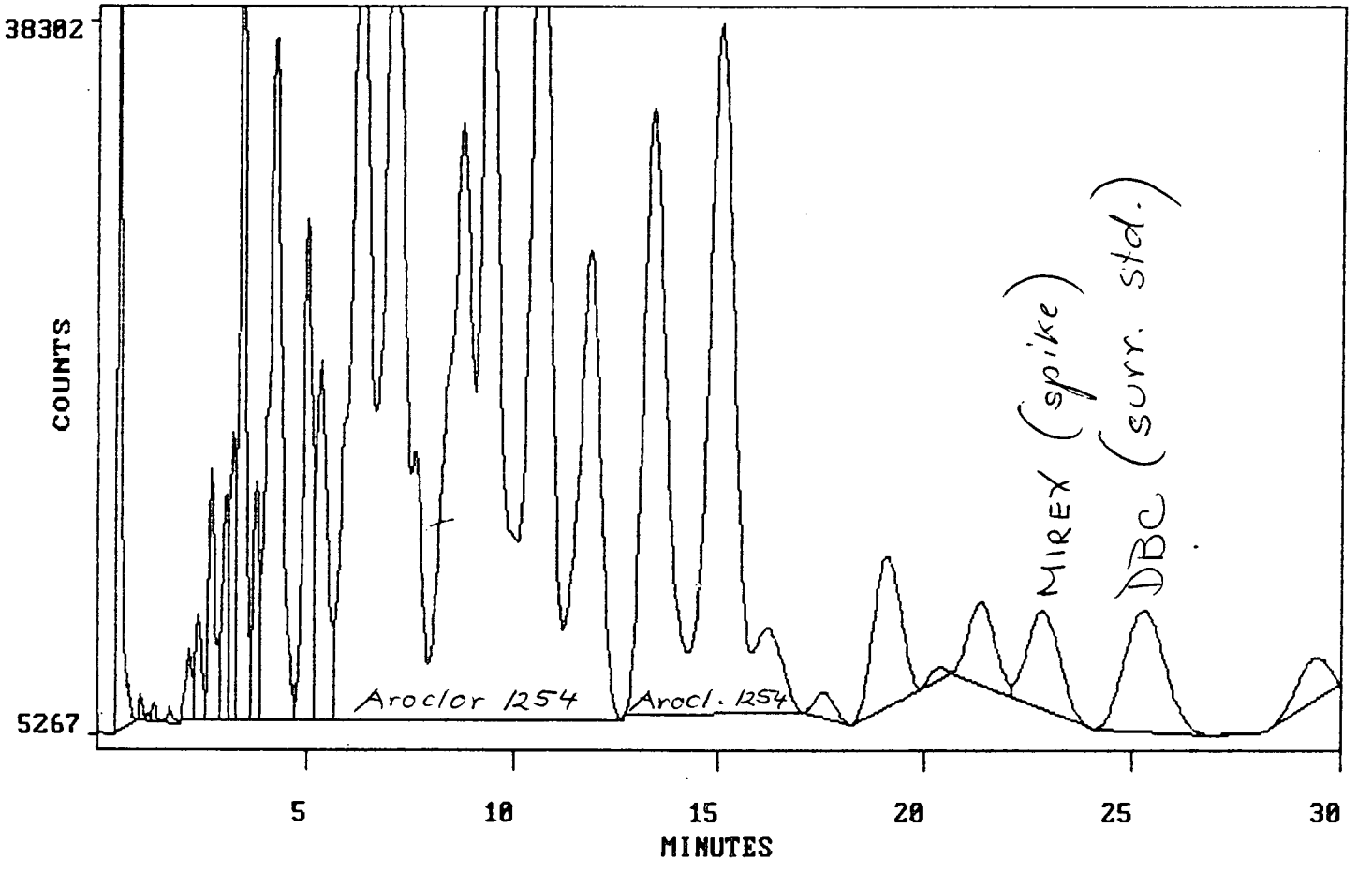
660548
CD910-S3
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:15:06:55 Date:MON 13 OCT 86

Time:19:46:15 Date:TUE 07 OCT 86
Method:ARO1254C

FILE: PEST2269 SCALE: 20 RANGE (MIN.): 0.03 TO 30.00



Channel #.....REINT Time:15:04:53 Date:MON 13 OCT 86

Sample name.....
Data file.....PEST2269
Method name.....ARO1254C

Author.....LAL
Instrument.....Tracor 550 - ECD
Column.....1.5% SP-2250/1.95% SP-2401 on 100/120
Notes.....Reintegration of Aroclors

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....19:46:15 Acq. date....TUE 07 OCT 86
Start PW.....20 00 sec. End PW.....150.00 sec.
                  Actual PW....140.0
Slope sens.....0 75 uv/sec.

Area reject....500
peaks found..24
Vol. Inj.....5.0 ul Sample amount 1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.551			17.742	2990836	731298	BB
2	1.072			0.042	7074	1168	BV
3	1.251			0.010	1626	320	VV
4	1.390			0.068	11490	903	VB
5	2.219		Unkn.	0.216	36422	3376	BV
6	2.436			0 293	49331	4843	VV
7	2.740		Unkn.	0.710	119755	11680	VV
8	3.090			0.585	98653	10431	VV
9	3.273			0 760	128062	13309	VV
10	3.478			2.632	443771	44162	VV
11	3.801			0.715	120598	10987	VV
12	4.251		Unknown	3 883	654531	31867	VV
13	5 008			2.179	367330	23147	VV
14	5.338			1 657	279315	16607	VV
15	9.415			45.290	7634875	46842	VB
16	15.064			15 694	2645616	31825	BB
17	17 541			0.237	39933	1175	BB
18	19.106			1.875	316143	6865	BV
19	20 364			0.085	14363	548	VB
20	21.381			1 006	169547	3747	BV
21	22.858			1.458	245718	4492	VB
22	25.315			2.241	377785	5565	BB

50000 for Ar1254 /100

277

24	29.412	0.612	103248	1909	BB
TOTALS		100.000	16857568		

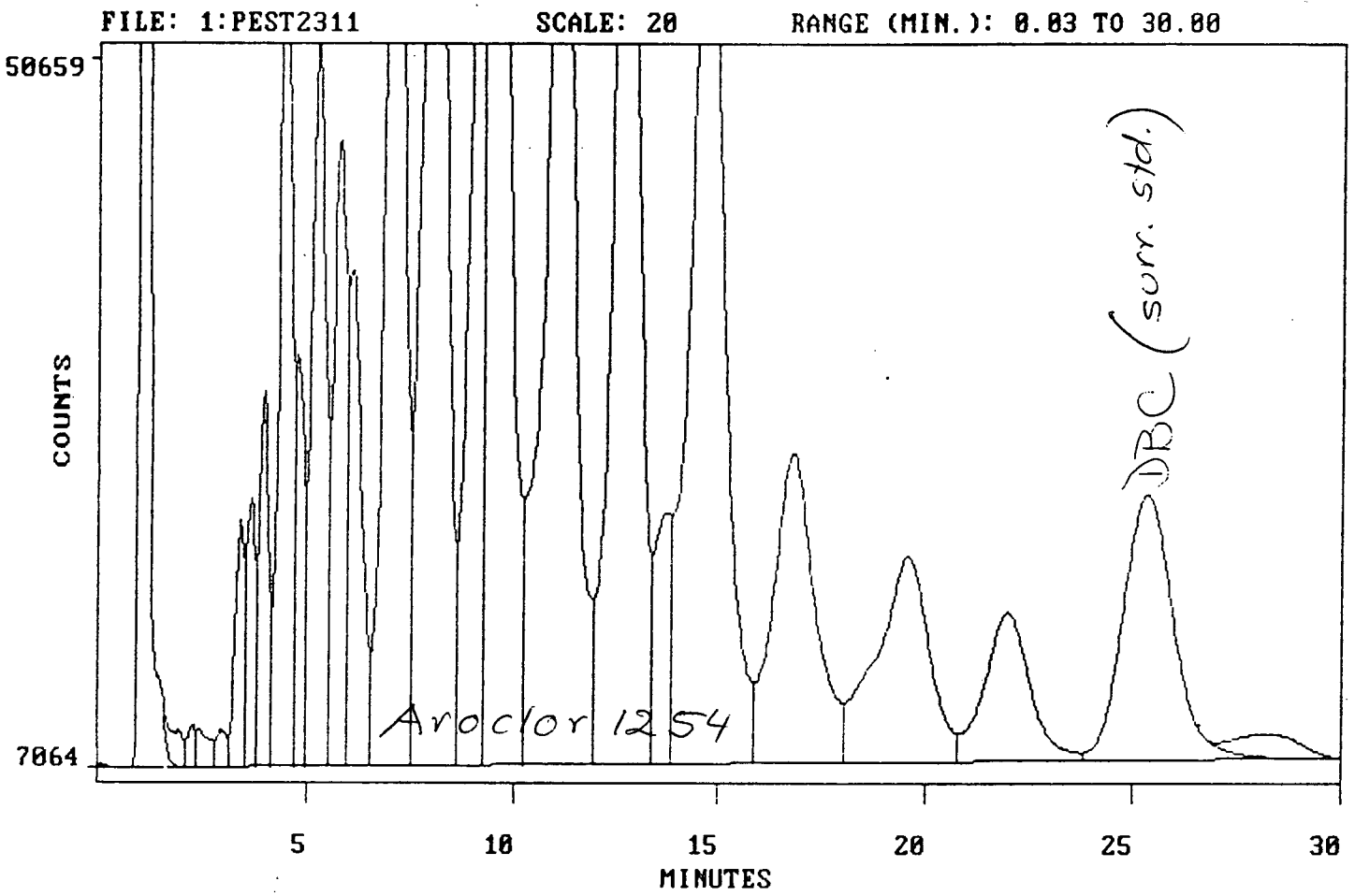
660548
CD910-S3

CONFIRMATORY COLUMN

Time 20 53 01 Date THU 09 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time 20.11.24 Date THU 09 OCT 86
Method PEST2



Channel #.....4 Time:20:41:55 Date:THU 09 OCT 86
Run #1 of 100

Sample name.....
Data file.....DAT259:PEST2311
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....20:11:24 Acq. date....THU 09 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..27
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.110			0.009	3999	277	BB
2	1.183			30.822	13658293	871921	BE
3	1.974			0.136	60094	2265	EV
4	2.315			0.105	46466	2661	EV
5	2.460			0.119	52929	2325	EV
6	2.996			0.099	43999	2334	EV
7	3.427			0.523	231691	15207	VV
8	3.666			0.500	221442	16532	VV
9	3.962			0.819	363056	23056	VV
10	4.454			2.620	1161109	61312	VV
11	4.763			0.760	336893	25175	VV
12	5.234			2.391	1059317	45196	VV
13	5.756			1.896	840001	38451	VV
14	6.058			1.438	637048	30366	VV
15	7.054			5.824	2580865	86460	VV
16	8.038			6.855	3037737	77063	VV
17	9.185			3.684	1632546	60871	VV
18	9.612			6.797	3012084	84009	VV
19	11.125			8.268	3664020	81978	VV
20	12.714			7.250	3212804	74171	VV
21	13.726			0.942	417597	15364	VV
22	14.686			7.591	3363839	59521	VV

23	16.793	3.015	1335988	18982	VV
24	19.576	2.559	1133946	12636	VV
25	22.049	1.558	690364	9048	VV
26	25.435	3.087	1367822	16214	VE
27	28.387	0.333	147484	1399	EB
TOTALS		100.000	44313433		

Analytical Data Report Package

for

NJDEP

Tier I Part II

September 1986

Submitted by:

H2M Laboratory
HOLZMACHER, McLENDON and MURRELL, P.C.
Consulting Engineers, Environmental Scientists, Architects and Planners
Melville, N.Y. Riverhead, N.Y. Farmingdale, N.Y. Fairfield, N.J.

III. 2. Reporting Package
NJ DEP I.D. # SW-1

H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Lab No. 660550
Type: Misc. - Tier I
Point: SW-1
Date Collected: 9/11/86
Date Received: 9/12/86
Collected By: CL 99

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Scan No.	Cas Number	Compound	ug/l
	74-87-3	Chloromethane	10U
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl chloride	10U
	75-00-3	Chloroethane	10U
	75-09-2	Methylene chloride	10U
	75-69-4	Trichlorofluoromethane	10U
	75-35-4	1,1-dichloroethene	10U
	75-34-3	1,1-dichloroethane	10U
	156-60-5	Cis/Trans-1,2-dichloroethene	10U
	67-66-3	Chloroform	10U
	107-06-2	1,2-dichloroethane	10U
330	71-55-6	1,1,1-Trichloroethane	4JB
	56-23-5	Carbon tetrachloride	10U
	75-27-4	Bromodichloromethane	10U
	79-34-5	1,1,2,2-Tetrachloroethane	10U
	70-87-5	1,2-dichloropropane	10U
	10061-02-6	Trans-1,3-dichloropropene	10U
	79-01-6	Trichloroethene	10U
	124-48-1	Dibromochloromethane	10U
	79-00-5	1,1,2-trichloroethane	10U
	71-43-2	Benzene	10U
	10061-01-5	cis-1,3-Dichloropropene	10U
	110-75-8	2-chloroethylvinyl ether	10U
	75-25-2	Bromoform	10U
	127-10-4	Tetrachloroethene	10U
	106-88-3	Toluene	10U
	106-90-7	Chlorobenzene	10U
	100-41-4	Ethylbenzene	10U
	541-73-1	1,2-Dichlorobenzene	10U
	95-50-1	1,3-Dichlorobenzene	10U
	106-46-1	1,4-Dichlorobenzene	10U

Date Reported: 10/15/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: SW-1

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob. FIT	% Prob. RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown (Carbon Dioxide)	-	-	13	130B
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H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

Lab Name: H2M Labs
Concentration: Low

Sample Lab No. 660551 - SW-1

Date Extracted: 9/15/86
Date Analyzed: 9/22/86

Conc Factor: 1000:1

Semi-Volatile Compounds

C.A.S. Number		ug/l	C.A.S. Number		ug/l	Scar No.
65-75-9	N-Nitrosodimethylamine	10U	83-32-9	Acenaphthene	10U	
108-95-2	Phenol	10U	51-28-5	2,4-Dinitrophenol	10U	
62-53-3	Aniline	10U	100-02-7	4-Nitrophenol	10U	
111-44-4	bis(2-Chloroethyl)Ether	10U	121-14-2	2,4-Dinitrotoluene	10U	
95-57-8	2-Chlorophenol	10U	606-20-2	2,6-Dinitrotoluene	10U	
541-73-1	1,3-Dichlorobenzene	10U	84-66-2	Diethylphthalate	10U	
106-46-7	1,4-Dichlorobenzene	10U	7005-72-3	4-Chlorophenyl-phenylether	10U	
95-50-1	1,2-Dichlorobenzene	10U	86-73-7	Fluorene	10U	
39638329	bis(2-chloroisopropyl)ether	10U	534-52-1	4,6-Dinitro-2-Methylphenol	50U	
621-64-7	N-Nitroso-Di-n-Propylamine	10U	86-30-6	N-Nitrososdiphenylamine (1)	10U	
67-72-1	Hexachloroethane	10U	101-55-3	4-Bromophenyl-phenylether	10U	
98-95-3	Nitrobenzene	10U	118-74-1	Hexachlorobenzene	10U	
78-59-1	Isophorone	10U	87-86-5	Pentachlorophenol	50U	
88-75-5	2-Nitrophenol	10U	85-01-8	Phenanthrene	10U	
105-67-9	2,4-Dimethylphenol	10U	120-12-7	Anthracene	10U	
111-91-1	bis(2-Chloroethoxy)Methane	10U	84-74-2	Di-n-Butylphthalate	10U	
120-83-2	2,4-Dichlorophenol	10U	206-44-0	Fluoranthene	10U	
120-82-1	1,2,4-Trichlorobenzene	10U	92-87-5	Benzidine	80U	
91-20-3	Naphthalene	10U	129-00-0	Pyrene	10U	
87-68-3	Hexachlorobutadiene	10U	85-68-7	Butylbenzylphthalate	10U	
59-50-7	4-Chloro-3-Methylphenol	10U	91-94-1	3,3'-Dichlorobenzidine	20U	
77-47-4	Hexachlorocyclopentadiene	10U	56-55-3	Benzo(a)Anthracene	10U	
88-06-2	2,4,6-Trichlorophenol	10U	117-81-7	bis(2-Ethylhexyl)Phthalate	61	1525
91-58-7	2-Chloronaphthalene	10U	218-01-9	Chrysene	10U	
131-11-3	Dimethyl Phthalate	10U	117-84-0	Di-n-Octyl Phthalate	10U	
208-96-8	Acenaphthylene	10U	205-99-2	Benzo(b)Fluoranthene	10U	
			207-08-9	Benzo(k)Fluoranthene	10U	
			50-32-8	Benzo(a)Pyrene	10U	
			193-39-5	Indeno(1,2,3-cd)Pyrene	10U	
			53-70-3	Dibenzo(a,h)Anthracene	10U	
			191-24-2	Benzo(g,h,i)Perylene	10U	

(1) Cannot be separated from diphenylamine

Date Reported: 10/16/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: SW-1

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob FIT	% Prob RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	-		145	10J
2.	123795	Dioctyl ester hexanedioic acid	76		1451	68J
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H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 660552
Date Extracted: 9/18/86
Date Analyzed: 9/30/86
Type: Misc. - Tier I
Point: SW-1
Collected By: CL 99

ANALYSIS FOR PESTICIDES/PCB's

C.A.S. No.	Compound	ug/l
319-84-6	Alpha-BHC	0.05U
319-87-7	Beta-BHC	0.06
319-86-8	Delta-BHC	0.05U
58-89-9	Gamma-BHC (Lindane)	0.05U
76-44-8	Heptachlor	0.05U
309-00-2	Aldrin	0.05U
1024-57-3	Heptachlor Epoxide	0.05U
959-98-8	Endosulfan I	0.05U
60-57-1	Dieldrin	0.10U
72-55-9	4,4'-DDE	0.10U
72-20-8	Endrin	0.10U
33213-65-9	Endosulfan II	0.10U
72-54-8	4,4'-DDD	0.10U
1031-07-8	Endosulfan Sulfate	0.10U
50-29-3	4,4'-DDT	0.10U
72-43-5	Methoxychlor	0.50U
53494-70-5	Endrin Ketone	0.10U
57-74-9	Chlordane	0.50U
8001-35-2	Toxaphene	1.0U
12674-11-2	Aroclor 1016	0.50U
11104-28-2	Aroclor 1221	0.50U
11141-16-5	Aroclor 1232	0.50U
53469-21-9	Aroclor 1242	0.50U
12672-29-6	Aroclor 1248	0.50U
11097-69-1	Aroclor 1254	1.0U
11096-82-5	Aroclor 1260	1.0U

Vi = Volume of extract injected (uL)
Ws = Weight of sample extracted (g)
Vs = 1000 mL Vt = 3 mLs
Date Reported: 10/17/86

Vs = Volume of water extracted (mL)
Vt = Volume of Total extract (mL)
Vi = 5 uL

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S.C. McLendon, P.E.
Laboratory Director

Lab Name : H2M LABS

Sample Number
660552

NJDEP #CD910-SW1

ORGANICS ANALYSIS DATA SHEET

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Probability Fit	% Probability RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		No Unknowns Found > 0.5 ug/l				
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Date Reported 10-17-86

S.C. McLendon, P.E.
Laboratory Director

H2M
Environmental Engineers & Scientists
HOLZMACHER, McLENDON and MURRELL, P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

WATER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

LAB NO. 660553

PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.
65 PROSPECT ST.
TRENTON, NJ 08618

TYPE OF SAMPLE - MISCELLANEOUS

COLLECTED BY CL 99

DATE COLLECTED - 9/11/86

DATE RECEIVED: 9/12/86

NJDEP SAMPLE #CD 910-SW-1
NJDEP SAMPLE POINT I.D. #SW-1
AQUEOUS SAMPLE

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<60.0#	SELENIUM	<5.00#
ARSENIC	11.8# ★	SILVER	<10.0#
BERYLLIUM	<5.00# N	THALLIUM	<10.0# N
CADMIUM	9.00#	ZINC	197.#
CHROMIUM	12.0#	PHENOLS	<1.00# N
COPPER	80.0# N	CYANIDE	<10.0#
LEAD	135.0# N		
MERCURY	<0.20#		
NICKEL	<40.0#		

ALL RESULTS IN MG/L EXCEPT AS NOTED BY # (UG/L) OR % PERCENT AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC. COND. (UMHOS) SETT. SOLIDS (ML/L)

DATE REPORTED: 10/8/86

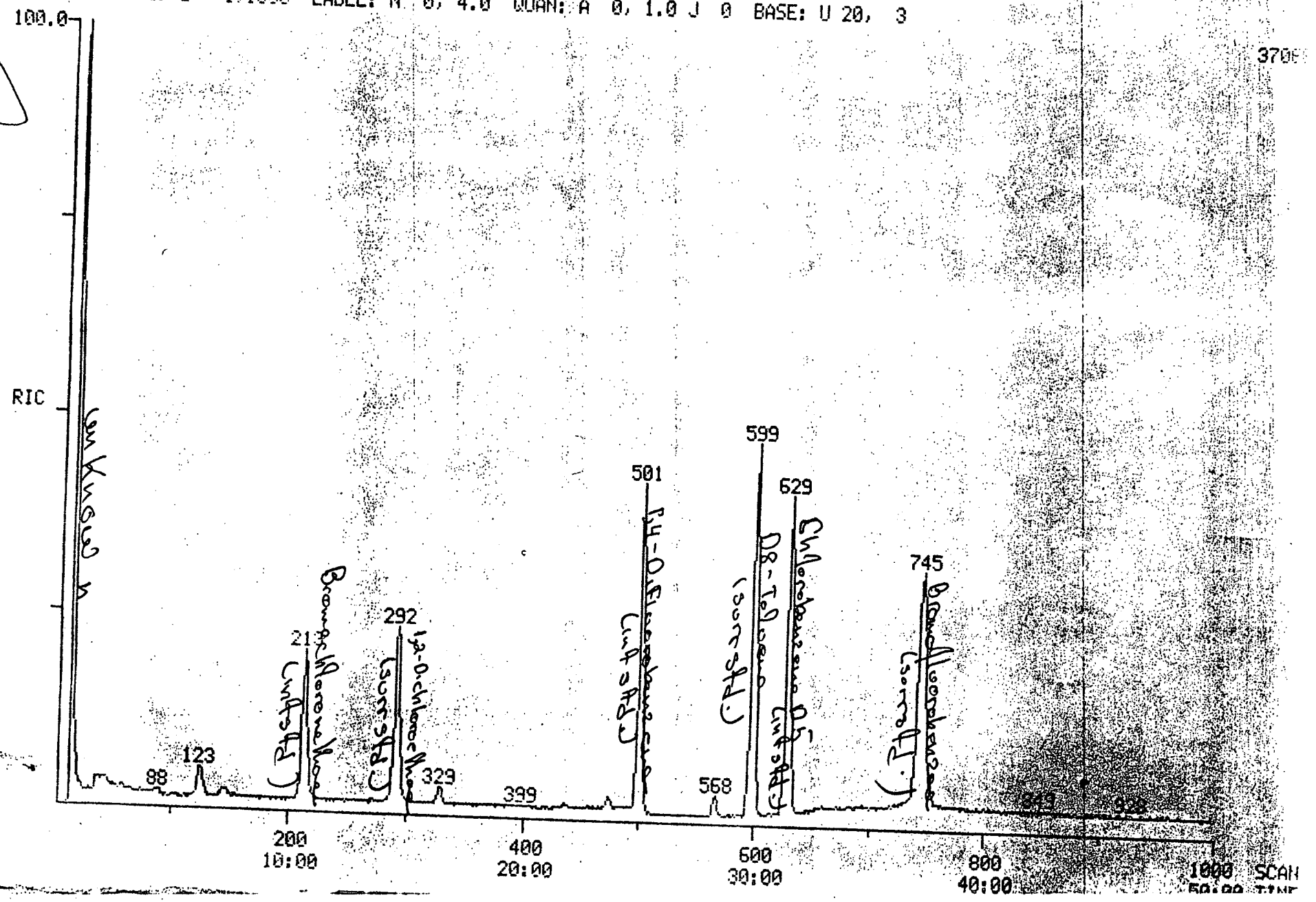
S.C. McLENDON, P.E., LABORATORY DIRECTOR

THE LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

RIC
09/24/86 11:26:00
SAMPLE: 5ML 660550
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6394 #1
CALI: PU6394 #2

SCANS 1 TO 1000



ICA FINISHED, 8 FOUND
FINISHED AT: 9/24/86 15:13:51

QUANTITATION REPORT FILE: PU6394

DATA: PU6394.TI
09/24/86 11:26:00
SAMPLE: 5ML 660550
CONDS.:
SUBMITTED BY: NJDEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No.	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(F)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D8-TOLUENE(SURR. STD)
48	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

290

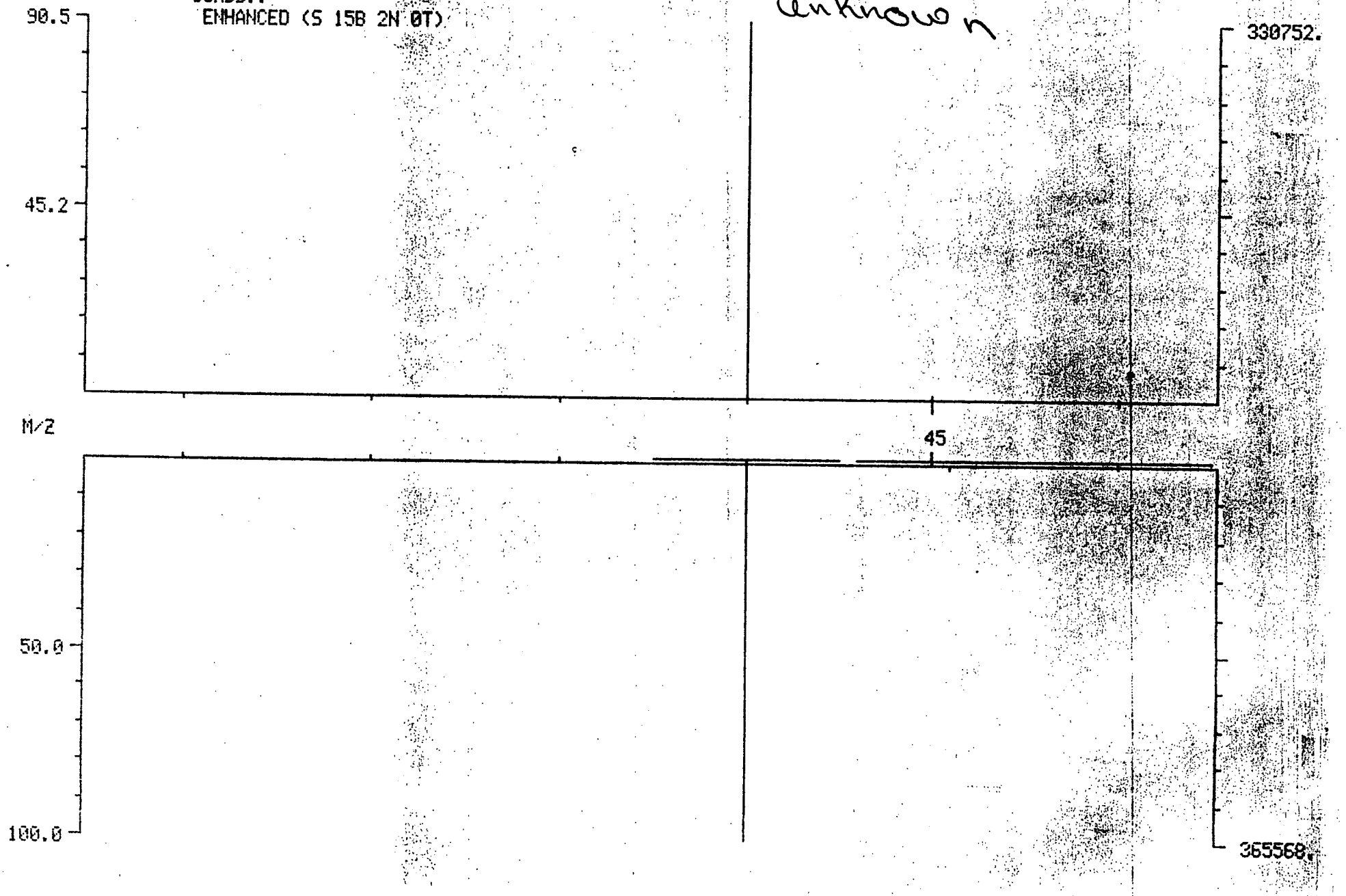
3	50	25	1:24	1	0.131	A BB	656.	1.333	NG	0.04
4	NOT	FOUND								
5	NOT	FOUND								
6	NOT	FOUND								
7	84	123	6:09	1	0.577	A BB	11468.	29.488	NG	0.90
8	47	145	7:15	1	0.681	A*BV	14389.	139.375	NG	4.26
9	NOT	FOUND								
10	NOT	FOUND								
11	NOT	FOUND								
12	NOT	FOUND								
13	83	272	13:36	1	1.277	A BB	2270.	2.793	NG	0.09
14	62	294	14:42	1	1.380	A BB	464.	0.613	NG	0.02
15	101	183	9:09	1	0.859	A BB	182.	0.342	NG	0.01
16	NOT	FOUND								
17	NOT	FOUND								
18	NOT	FOUND								
19	114	501	25:03	19	1.000	A BB	278593.	250.000	NG	7.64
20	43	297	14:51	19	0.593	A*BB	5474.	69.038	NG	2.11
21	97	330	16:30	19	0.659	A BB	7940.	19.404	NG	0.59
22	NOT	FOUND								
23	NOT	FOUND								
24	NOT	FOUND								
25	NOT	FOUND								
26	130	419	20:57	19	0.836	A BB	193.	0.346	NG	0.01
27	NOT	FOUND								
28	NOT	FOUND								
29	78	436	21:48	19	0.870	A BB	341.	0.225	NG	0.01
30	NOT	FOUND								
31	NOT	FOUND								
32	NOT	FOUND								
33	117	629	31:27	33	1.000	A BB	214688.	250.000	NG	7.64
34	43	521	26:03	33	0.828	A BB	1917.	1372.550	NG	41.92
35	43	564	28:12	33	0.897	A*BB	1862.	401.602	NG	12.27
36	164	569	28:27	33	0.905	A BB	509.	1.013	NG	0.03
37	NOT	FOUND								
38	92	603	30:09	33	0.959	A BB	872.	1.134	NG	0.03
39	NOT	FOUND								
40	NOT	FOUND								
41	NOT	FOUND								
42	NOT	FOUND								
43	NOT	FOUND								
44	NOT	FOUND								
45	NOT	FOUND								
46	NOT	FOUND								
47	100	599	29:57	33	0.952	A BB	190810.	232.804	NG	7.11
48	95	744	37:12	33	1.183	A BB	182493.	236.488	NG	7.22

DUAL MASS SPECTRUM
09/24/86 11:26:00 + 0:39
SAMPLE: 5ML 660550
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6394 #13
CALI: PU6394 #2

BASE M/Z: 44/ 44
RIC: 335871./ 370687.

unknown



29

LIBRARY SEARCH
09/24/86 11:26:00 + 0:39
SAMPLE: 5ML 660550
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6394 # 13
CALI: PU6394 # 2

BASE M/Z: 44
RIC: 335871.

UNKNOWN

1018
SAMPLE

C.O2
CARBON DIOXIDE (ACN)
1018
M WT 44
B PK 44
RANK 1
31
FIT 1000

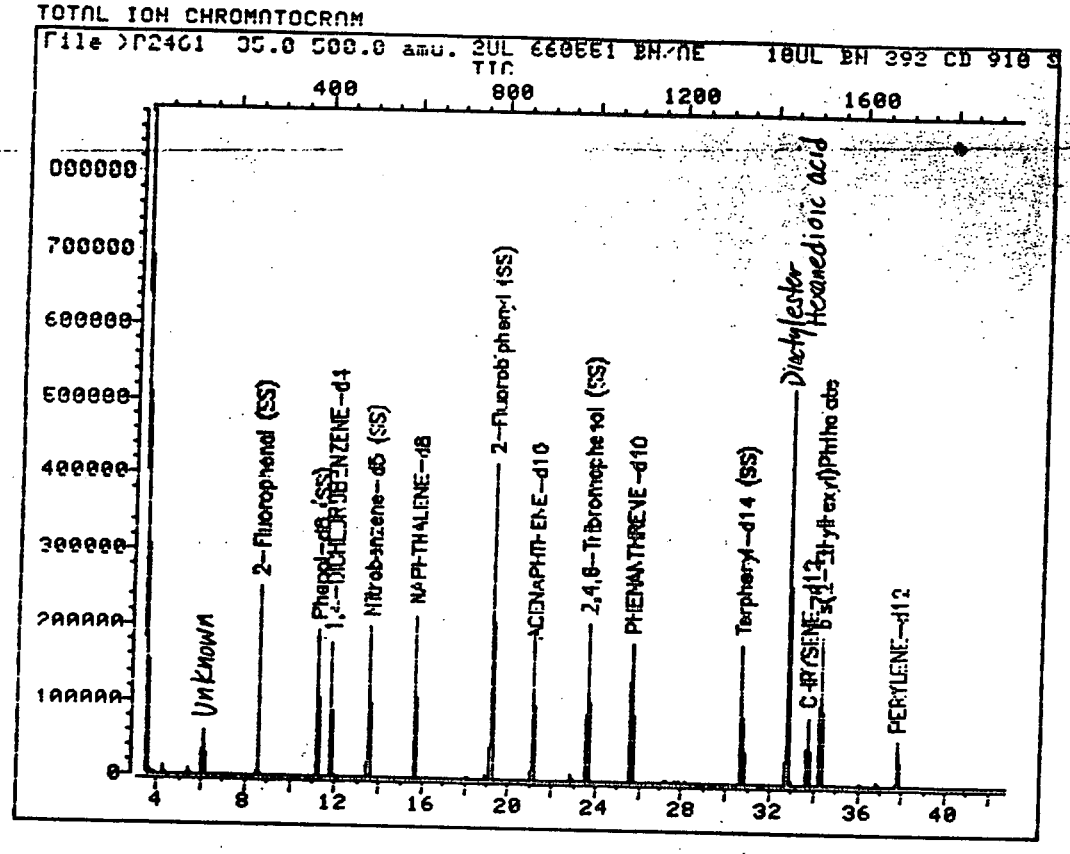
O.N2
NITROGEN OXIDE (N2O)
1018
M WT 44
B PK 44
RANK 2
36
FIT 1000

C.HE.O2.N2
CARBAMIC ACID, MONOAMMONIUM SALT
1018
M WT 78
B PK 17
RANK 3
359
FIT 1000

M/Z
15 20 25 30 35 40 45

893

TOTAL ION CHROMATOGRAM



Data File: >P2461::D1
Name: 2UL 660551 BN/AE
Misc: 10UL BN 392 CD 910 SW1

BTL#93

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860922 14:19

Operator ID: STEVE
Quant Time: 860922 14:32
Injected at: 860922 13:39

QUANT REPORT

Operator ID: STEVE Quant Rev: 4 Quant Time: 860922 14:32
Output File: ^P2461::OP Injected at: 860922 13:39
Data File: >P2461::D1 Dilution Factor: 1.00
Name: 2UL 660551 BN/AE
Misc: 10UL BN 392 CD 910 SW1 BTL#93

ID File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860922 14:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.80	427	65703	40.00	NG	88
3)	2-Fluorophenol (SS)	8.53	267	157278	76.45	NG	81
7)	Phenol-d6 (SS)	11.16	396	184018	68.78	NG	83
15)	*NAPHTHALENE-d8	15.60	613	229363	40.00	NG	47
16)	Nitrobenzene-d5 (SS)	13.52	511	154355	57.52	NG	89
27)	*ACENAPHTHENE-d10	21.10	882	116056	40.00	NG	98
31)	2-Fluorobiphenyl (SS)	19.16	787	332291	62.74	NG	96
42)	2,4,6-Tribromophenol (SS)	23.54	1001	78400	90.52	NG	87
43)	*PHENANTHRENE-d10	25.58	1101	186542	40.00	NG	55
54)	*CHRYSENE-d12	33.68	1497	100372	40.00	NG	47
55)	Terphenyl-d14 (SS)	30.63	1348	179696	87.92	NG	37
61)	bis(2-Ethylhexyl)Phthalate	34.25	1525	128658	61.21	NG	94
63)	*PERYLENE-d12	37.73	1695	88725	40.00	NG	77

* Compound is ISTD

MS data file header from : >P2461

Sample: 2UL 660551 BN/AE Operator: STEVE MS 9/22/86 13:39
Misc : 10UL BN 392 CD 910 SW1 BTL#93
Sys. #: 1 MS model: 96 SW/HW rev.: CA ALS # : 0
Method file: EXTRII Tuning file: MT9301 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 220 Transfer line temp. : 280

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

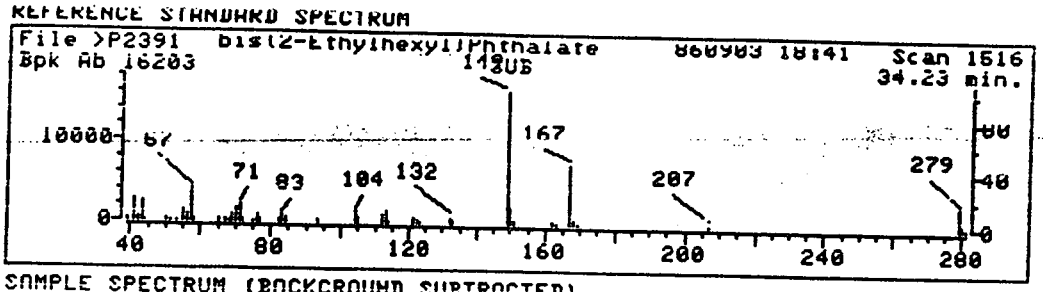
>P2461 2UL 660551 BN/AE 10UL BN 392 CD 910 SW1
35.01 500.0 CLP ADC TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	6.031	142	145	147	60464	126661	126275	9.67	4.32
2	15.602	610	613	616	216041	504174	504174	38.63	17.26
3	25.582	1096	1101	1104	184230	496634	496035	38.00	16.98
4	32.740	1447	1451	1453	524130	1310877	1305296	100.00	44.69
5	33.681	1493	1497	1501	89535	268939	261197	20.01	8.94
6	37.731	1691	1695	1704	59141	247594	227500	17.43	7.79

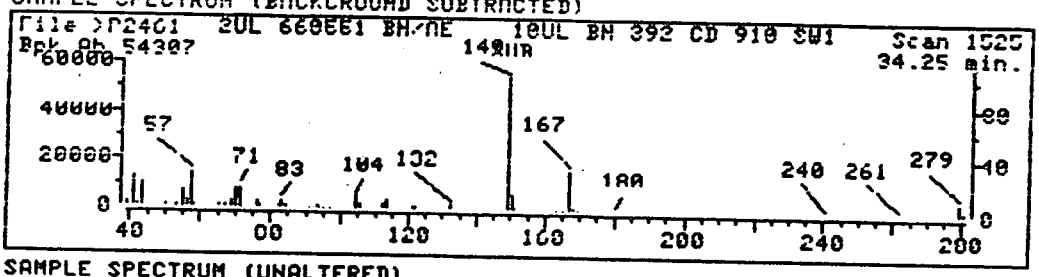
Sum of corrected areas: 2920477.

2:54 PM MON., 22 SEPT, 1986

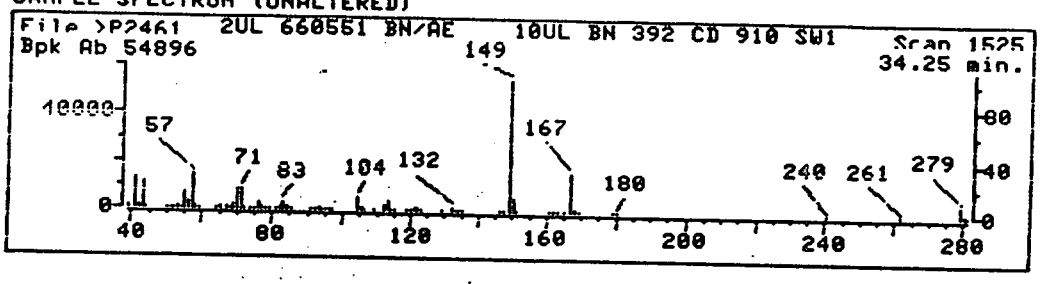
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



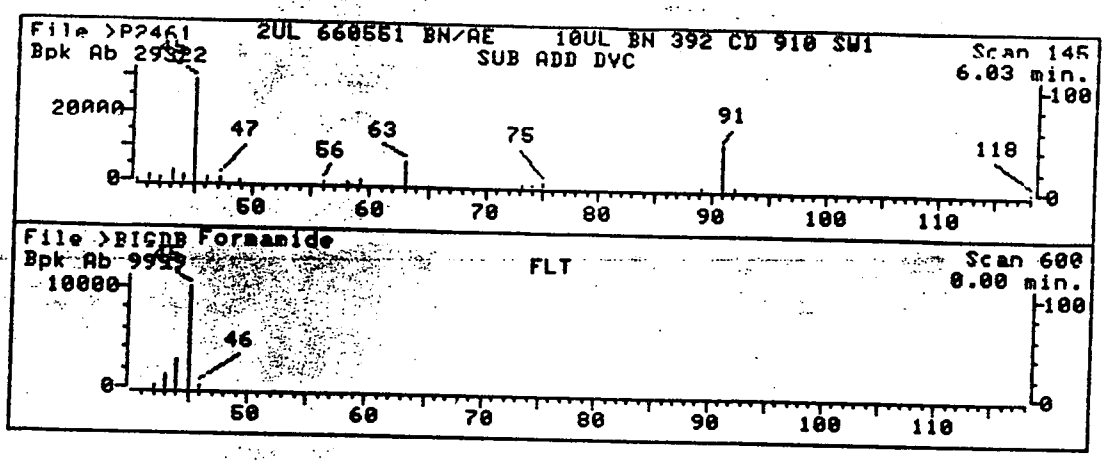
SAMPLE SPECTRUM (UNALTERED)



Data File: >P2461::D1
Name: 2UL 660551 BN/AE
Misc: 10UL BN 392 CD 910 SW1
Quant Time: 860922 14:32
Injected at: 860922 13:39

BTL#93

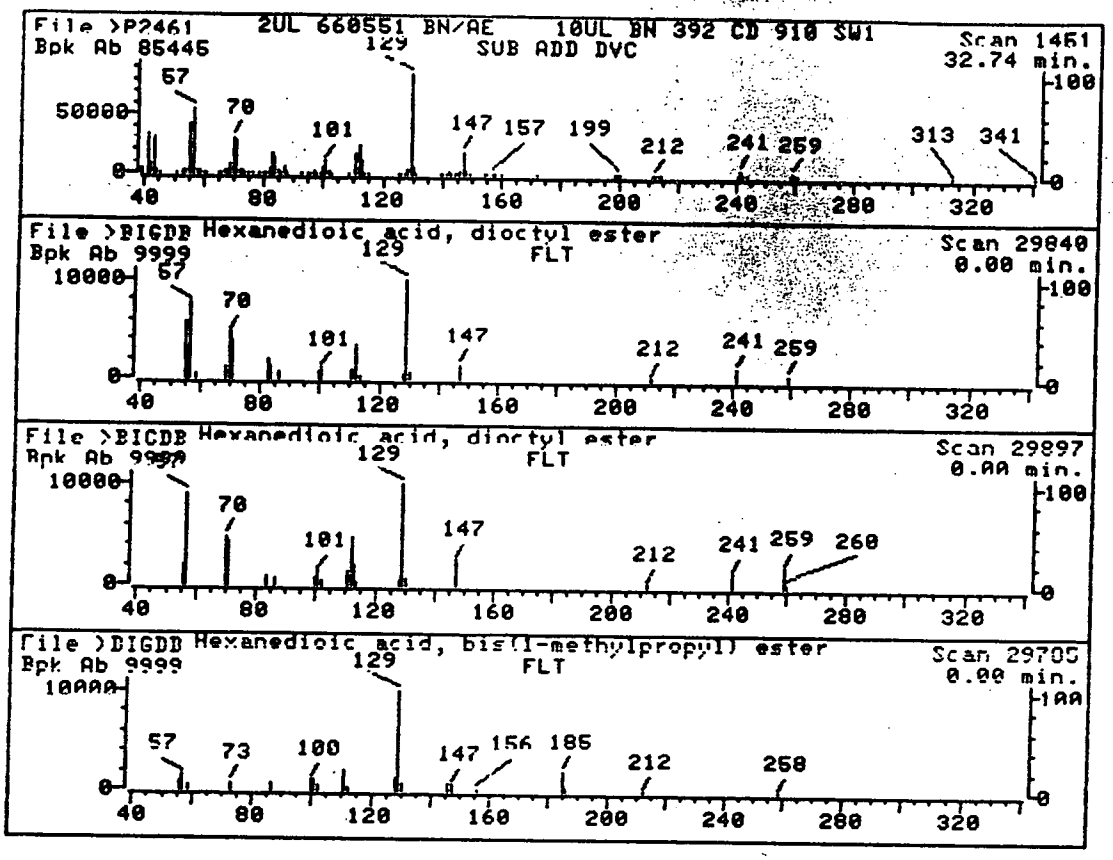
Compound No: 61
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1525
Retention Time: 34.25 min.
Area: 128658
Concentration: 61.21 NG
q-value: 94



1. Formamide 45 CH3NO

Sample file: >P2461 Spectrum #: 145
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	75127	600	"BIGDB	21	30	1	0	88	48	7	14



1. Hexanedioic acid, dioctyl ester 370 C22H42O4

Sample file: >P2461 Spectrum #: 1451
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	76	123795	29840	"BIGDB	117	47	2	0	74	15	40	56

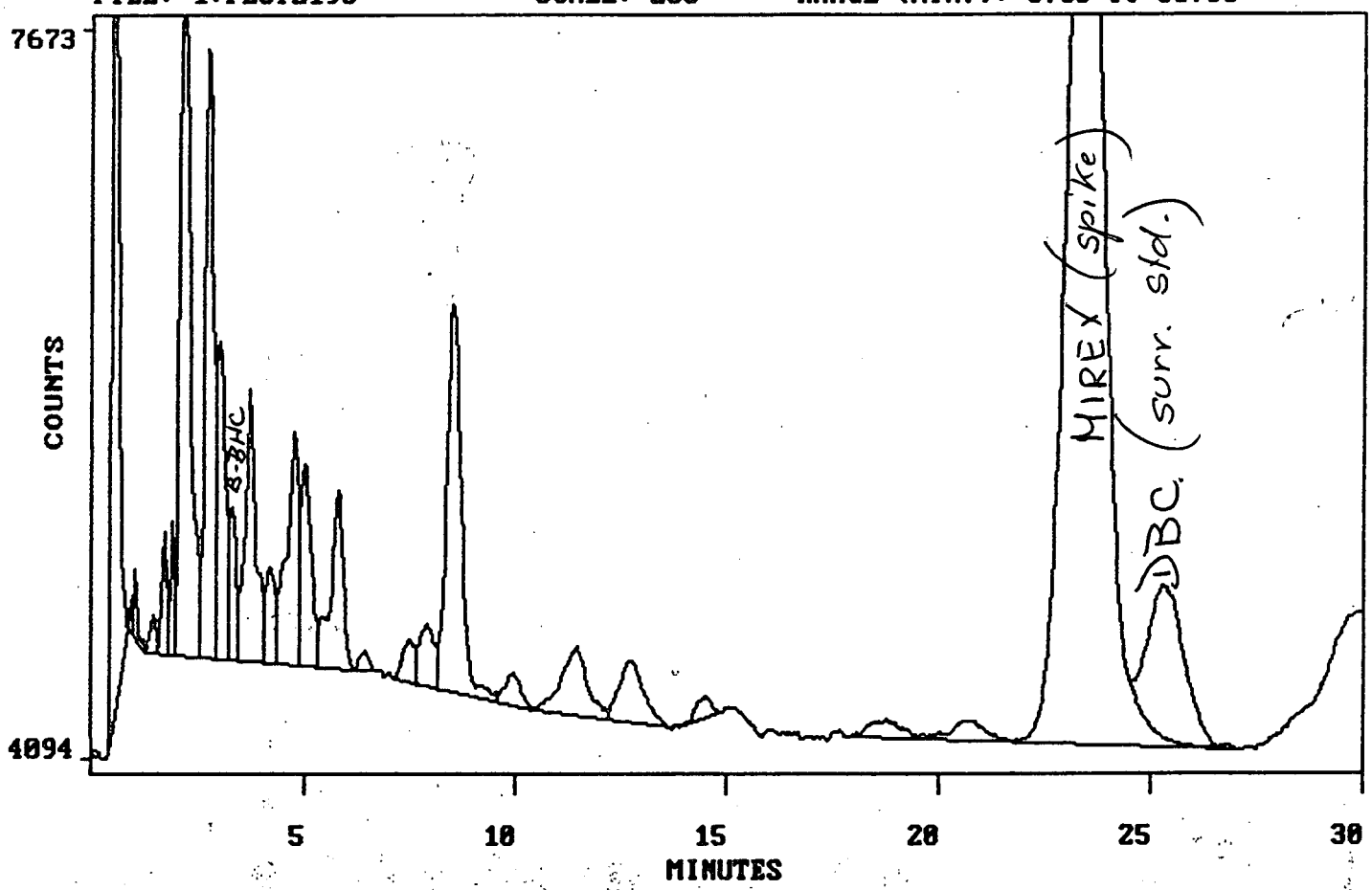
660552
CD910-SW1 PRIMARY COLUMN

Time:17:26:11 Date:THU 02 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:20:21:39 Date:TUE 30 SEP 86
Method:PEST2

FILE: 1:PEST2190 SCALE: 200 RANGE (MIN.): 0.03 TO 30.00



1.8

300

Channel #.....4 Time:20:52:08 Date:TUE 30 SEP 86
Run #3 of 100

Sample name.....NJDEP
Data file.....DAT256:PEST2190
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....20:21:39 Acq. date....TUE 30 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..28
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %		Area	Peak Ht.	BL
1	0.554			82.325		3213774	771427	BB
2	0.962			0.015		577	158	BV
3	1.073			0.042		1636	346	VB
4	1.508			0.042		1647	186	BV
5	1.742			0.141		5521	601	VV
6	1.935			0.107		4164	650	VV
7	2.189			1.492		58263	3526	VV
8	2.749			1.058		41293	3054	VV
9	3.029	Lindane		0.542	.109	21170/116	1562	VV
10	3.325	B-BHC		0.196	.055	7664/91	741	VV
11	3.729	S-BHC		0.585	.112	22840	1332	VV
12	4.208			0.181	.027	7064/156.3	463	VV
13	4.767			0.576		22481	1144	VV
14	5.014			0.396		15459	989	VV
15	5.776			0.447		17455	869	VB
16	6.433			0.037		1438	99	BB
17	7.530			0.118		4588	209	BV
18	7.931	ENDO I		0.196	.049	7639/	301	VV
19	8.564	4,4'-DDE		1.165	.123	45483/222.2	1897	VV
20	9.980			0.101		3931	151	VB
21	11.473			0.358	.097	13958/869	330	BV
22	12.758			0.314	.073	12249/101.3	298	VB

300

23	14.524		0.066	2570	91	BB
24	18.827		0.125	4886	85	BV
25	20.774		0.136	5323	95	VV
26	23.482	MIREX	8.101	316224	4983	VE
27	25.388	DBC	1.139	44457	734	EB
TOTALS			100.000	3903754		

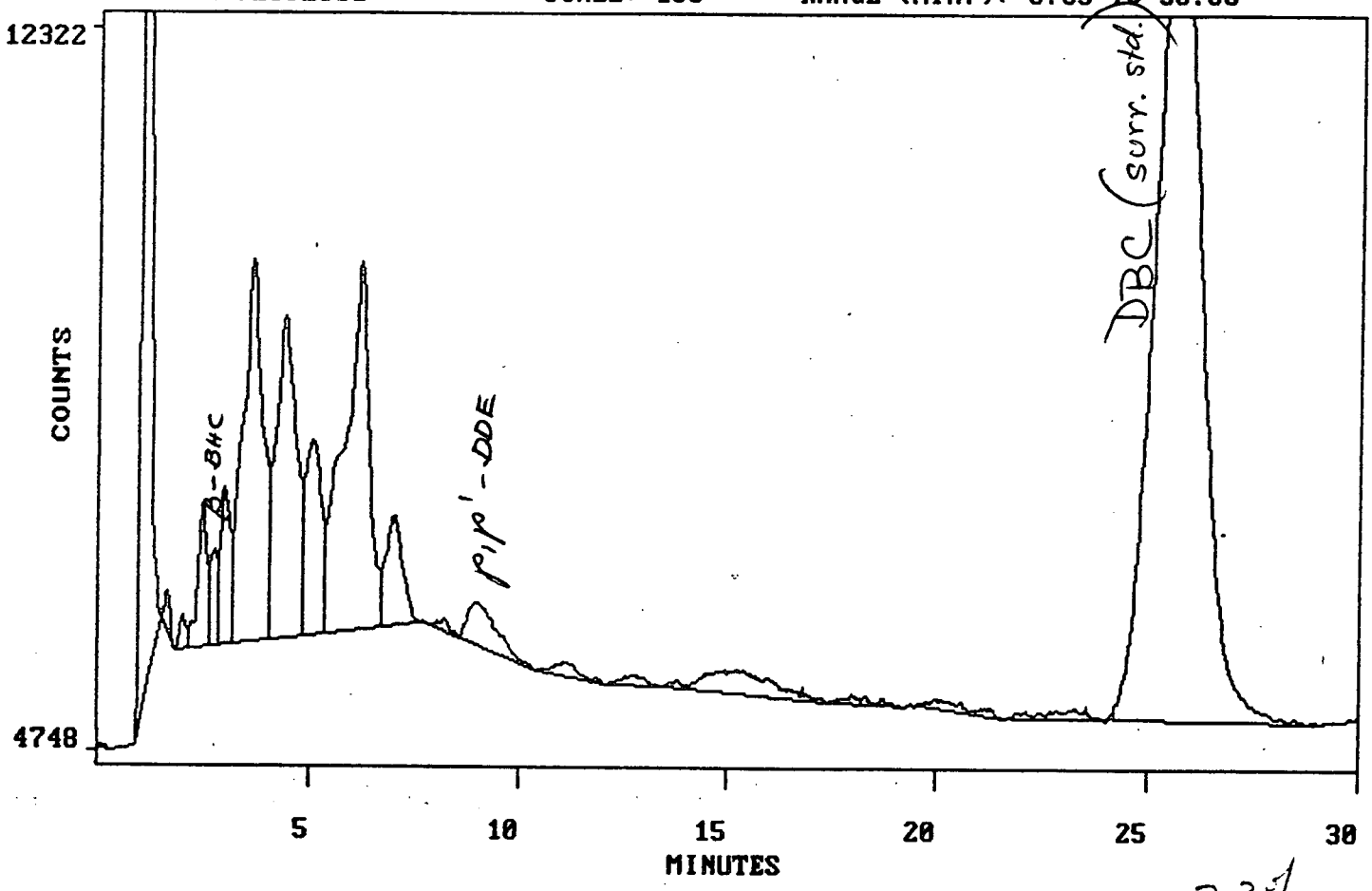
660552
CD910-SW1
CONFIRMATORY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:13:35:41 Date:THU 09 OCT 86

Time:13:01:31 Date:THU 09 OCT 86
Method:PEST2

FILE: 1:PEST2301 SCALE: 100 RANGE (MIN.): 0.03 TO 30.00



2.3%

303

Channel #.....4 Time:13:32:13 Date:THU 09 OCT 86
Run #9 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2301
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....~~G~~ V-2 3% SP2100 on 100/120 SUPELCOPORT
Notes.....~~Primary~~ Column Runs
SECONDARY

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....13:01:31 Acq. date....THU 09 OCT 86
Start PW.....20.00 sec. End PW. .....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..26
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

0.23891

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.106			0.007	553	55	BB
2	1.099			83.392	6625618	757057	BB
3	1.660			0.038	2998	406	BB
4	2.036			0.048	3784	347	BV
5	2.490			0.267	21225	1511	VV
6	2.759		B-BHC	0.146	11588	996	VV
7	3.003			0.343	27288	1629	VV
8	0.142 3.640			1.641	130383	3973	VV
9	0.171 4.399			1.373	109122	3351	VV
10	0.197 5.064			0.683	54260	2032	VV
11	0.240 6.164			1.956	155427	3819	VV
12	0.272 6.989			0.417	33129	1147	VB
13	0.321 8.238			0.030	2362	123	BV
14	0.350 8.998		4,4'-DDE	0.267	21177	434	VB
15	0.434 11.143			0.074	5872	139	BB
16	0.498 12.800			0.051	4022	100	BB
17	0.538 13.830			0.021	1687	73	BV
18	0.593 15.239			0.352	27974	248	VB
19	0.702 18.028			0.030	2420	85	BV
20	0.714 18.342			0.010	822	82	VB
21	0.729 18.744			0.012	960	73	BB

304

23	21.213		0.021	1702	74	VB
24	22.170		0.035	2816	69	BV
25	23.310		0.064	5095	102	VB
26	25.702	DBC	8.654	687576	8826	BB
TOTALS			100.000	7945190		

III. 2. Reporting Package
NJ DEP I.D. # SW-2/SW2Q

H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Lab No. 660554
Type: Misc. - Tier I
Point: SW2/SW2Q
Date Collected: 9/11/86
Date Received: 9/12/86
Collected By: CL 99

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Scan No.	Cas Number	Compound	ug/l
	74-87-3	Chloromethane	10U
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl chloride	10U
	75-00-3	Chloroethane	10U
131	75-09-2	Methylene chloride	15
	75-69-4	Trichlorofluoromethane	10U
	75-35-4	1,1-dichloroethene	10U
	75-34-3	1,1-dichloroethane	10U
	156-60-5	Cis/Trans-1,2-dichloroethene	10U
	67-66-3	Chloroform	10U
	107-06-2	1,2-dichloroethane	10U
331	71-55-6	1,1,1-Trichloroethane	3JB
	56-23-5	Carbon tetrachloride	10U
	75-27-4	Bromodichloromethane	10U
	79-34-5	1,1,2,2-Tetrachloroethane	10U
	70-87-5	1,2-dichloropropane	10U
	10061-02-6	Trans-1,3-dichloropropene	10U
	79-01-6	Trichloroethene	10U
	124-48-1	Dibromochloromethane	10U
	79-00-5	1,1,2-trichloroethane	10U
	71-43-2	Benzene	10U
	10061-01-5	cis-1,3-Dichloropropene	10U
	110-75-8	2-chloroethylvinyl ether	10U
	75-25-2	Bromoform	10U
	127-10-4	Tetrachloroethene	10U
604	106-88-3	Toluene	1J
	106-90-7	Chlorobenzene	10U
	100-41-4	Ethylbenzene	10U
	541-73-1	1,2-Dichlorobenzene	10U
	95-50-1	1,3-Dichlorobenzene	10U
	106-46-1	1,4-Dichlorobenzene	10U

Date Reported: 10/15/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: SW2/SW2Q

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob. FIT	% Prob. RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown (Carbon Dioxide)	-	-	22	54B
2.						
3.						
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27.						
28.						
29.						
30.						

H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

Lab Name: H2M Labs

Sample Lab No. 660555 - SW-2 /SW-2Q

Concentration: Low

Date Extracted: 9/16/86 - 9/17/86

Date Analyzed: 9/22/86

Conc Factor: 1000:1

Semi-Volatile Compounds

C.A.S. Number		ug/l	C.A.S. Number		ug/l	Scan No.
65-75-9	N-Nitrosodimethylamine	10U	83-32-9	Acenaphthene	10U	
108-95-2	Phenol	10U	51-28-5	2,4-Dinitrophenol	10U	
62-53-3	Aniline	10U	100-02-7	4-Nitrophenol	10U	
111-44-4	bis(2-Chloroethyl)Ether	10U	121-14-2	2,4-Dinitrotoluene	10U	
95-57-8	2-Chlorophenol	10U	606-20-2	2,6-Dinitrotoluene	10U	
541-73-1	1,3-Dichlorobenzene	10U	84-66-2	Diethylphthalate	10U	
106-46-7	1,4-Dichlorobenzene	10U	7005-72-3	4-Chlorophenyl-phenylether	10U	
95-50-1	1,2-Dichlorobenzene	10U	86-73-7	Fluorene	10U	
39638329	bis(2-chloroisopropyl)ether	10U	534-52-1	4,6-Dinitro-2-Methylphenol	50U	
621-64-7	N-Nitroso-Di-n-Propylamine	10U	86-30-6	N-Nitrososdiphenylamine (1)	10U	
67-72-1	Hexachloroethane	10U	101-55-3	4-Bromophenyl-phenylether	10U	
98-95-3	Nitrobenzene	10U	118-74-1	Hexachlorobenzene	10U	
78-59-1	Isophorone	10U	87-86-5	Pentachlorophenol	50U	
88-75-5	2-Nitrophenol	10U	85-01-8	Phenanthrene	10U	
105-67-9	2,4-Dimethylphenol	10U	120-12-7	Anthracene	10U	
111-91-1	bis(2-Chloroethoxy)Methane	10U	84-74-2	Di-n-Butylphthalate	10U	
120-83-2	2,4-Dichlorophenol	10U	206-44-0	Fluoranthene	10U	
120-82-1	1,2,4-Trichlorobenzene	10U	92-87-5	Benzidine	80U	
91-20-3	Naphthalene	10U	129-00-0	Pyrene	10U	
87-68-3	Hexachlorobutadiene	10U	85-68-7	Butylbenzylphthalate	10U	
59-50-7	4-Chloro-3-Methylphenol	10U	91-94-1	3,3'-Dichlorobenzidine	20U	
77-47-4	Hexachlorocyclopentadiene	10U	56-55-3	Benzo(a)Anthracene	10U	
88-06-2	2,4,6-Trichlorophenol	10U	117-81-7	bis(2-Ethylhexyl)Phthalate	2J	1523
91-58-7	2-Chloronaphthalene	10U	218-01-9	Chrysene	10U	
131-11-3	Dimethyl Phthalate	10U	117-84-0	Di-n-Octyl Phthalate	10U	
208-96-8	Acenaphthylene	10U	205-99-2	Benzo(b)Fluoranthene	10U	
			207-08-9	Benzo(k)Fluoranthene	10U	
			50-32-8	Benzo(a)Pyrene	10U	
			193-39-5	Indeno(1,2,3-cd)Pyrene	10U	
			53-70-3	Dibenzo(a,h)Anthracene	10U	
			191-24-2	Benzo(g,h,i)Perylene	10U	

(1) Cannot be separated from diphenylamine

Date Reported: 10/16/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: SW-2

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob FIT|RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown		144	11J
2.					
3.					
4.					
5.					
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25.					
26.					
27.					
28.					
29.					
30.					

H2M

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 660556
Date Extracted: 9/18/86
Date Analyzed: 9/30/86
Type: Misc. - Tier I
Point: SW2/SW2Q
Collected By: CL 99

ANALYSIS FOR PESTICIDES/PCB's

C.A.S. No.	Compound	ug/l
319-84-6	Alpha-BHC	0.05U
319-87-7	Beta-BHC	0.05U
319-86-8	Delta-BHC	0.05U
58-89-9	Gamma-BHC (Lindane)	0.05U
76-44-8	Heptachlor	0.05U
309-00-2	Aldrin	0.05U
1024-57-3	Heptachlor Epoxide	0.05U
959-98-8	Endosulfan I	0.10U
60-57-1	Dieldrin	0.10U
72-55-9	4,4'-DDE	0.10U
72-20-8	Endrin	0.10U
33213-65-9	Endosulfan II	0.10U
72-54-8	4,4'-DDD	0.10U
1031-07-8	Endosulfan Sulfate	0.10U
50-29-3	4,4'-DDT	0.10U
72-43-5	Methoxychlor	0.50U
53494-70-5	Endrin Ketone	0.10U
57-74-9	Chlordane	0.50U
8001-35-2	Toxaphene	1.0U
12674-11-2	Aroclor 1016	0.50U
11104-28-2	Aroclor 1221	0.50U
11141-16-5	Aroclor 1232	0.50U
53469-21-9	Aroclor 1242	0.50U
12672-29-6	Aroclor 1248	0.50U
11097-69-1	Aroclor 1254	1.0U
11096-82-5	Aroclor 1260	1.0U

Vi = Volume of extract injected (uL)
Ws = Weight of sample extracted (g)
Vs = 1000 mL Vt = 3 mLs
Date Reported: 10/17/86

Vs = Volume of water extracted (mL)
Vt = Volume of Total extract (mL)
Vi = 5 uL

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****
S.C. McLendon, P.E.
Laboratory Director

Lab Name : H2M LABS

Sample Number
660556

NJDEP #910-SW2

ORGANICS ANALYSIS DATA SHEET

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Probability Fit	% Probability Refit	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown			2.19	0.53
2.						
3.						
4.						
5.						
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Date Reported: 10-17-86

S.C. McLendon, P.E.
Laboratory Director

H2M
Environmental Engineers & Scientists
HOLZMACHER, McLENDON and MURRELL, P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

WATER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

LAB NO. 660557
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.
65 PROSPECT ST.
TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 9/11/86 DATE RECEIVED - 9/12/86

NJDEP SAMPLE #CD 910-SW2/SW2Q
NJDEP SAMPLE POINT I.D.#SW2/SW2Q
AQUEOUS SAMPLE

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<60.0 #	SELENIUM	<5.00#
ARSENIC	<10.0 #	SILVER	<10.0 #
BERYLLIUM	<5.00# N	THALLIUM	<10.0 # N
CADMIUM	<5.00#	ZINC	21.0 #
CHROMIUM	<10.0 #	PHENOLS	<1.00# N E
COPPER	25.0 # N	CYANIDE	<10.0 #
LEAD	<20.0 # N E		
MERCURY	<0.20#		
NICKEL	<40.0 #		

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 10/ 8/86

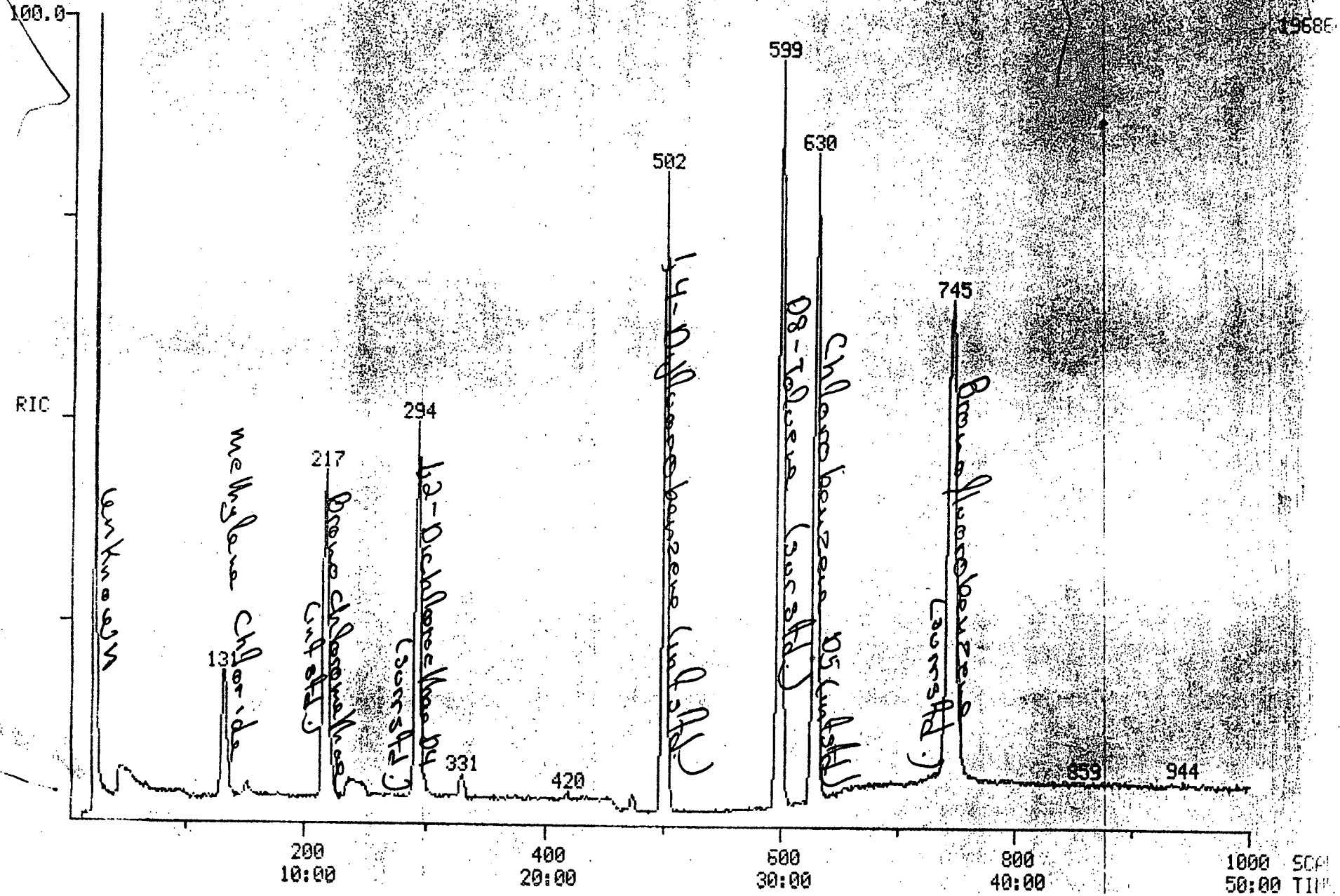
S. C. McLENDON, P.E., LABORATORY DIRECTOR

THE LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

RIC
09/24/86 14:22:00
SAMPLE: 5ML 660554
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6397 #1
CALI: PU6397 #2

SCANS 1 TO 1000



TCA FINISHED, 8 FOUND
FINISHED AT: 9/25/86 13:17:21

314

QUANTITATION REPORT FILE: PU6397

DATA: PU6397.TI
09/24/86 14:22:00
SAMPLE: 5ML 660554
CONDS.:
SUBMITTED BY: NJDEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D8-TOLUENE(SURR. STD)
48	BROMOFLUORBENZENE(SURR. STD)

No M/Z SCAN TIME REF DPT

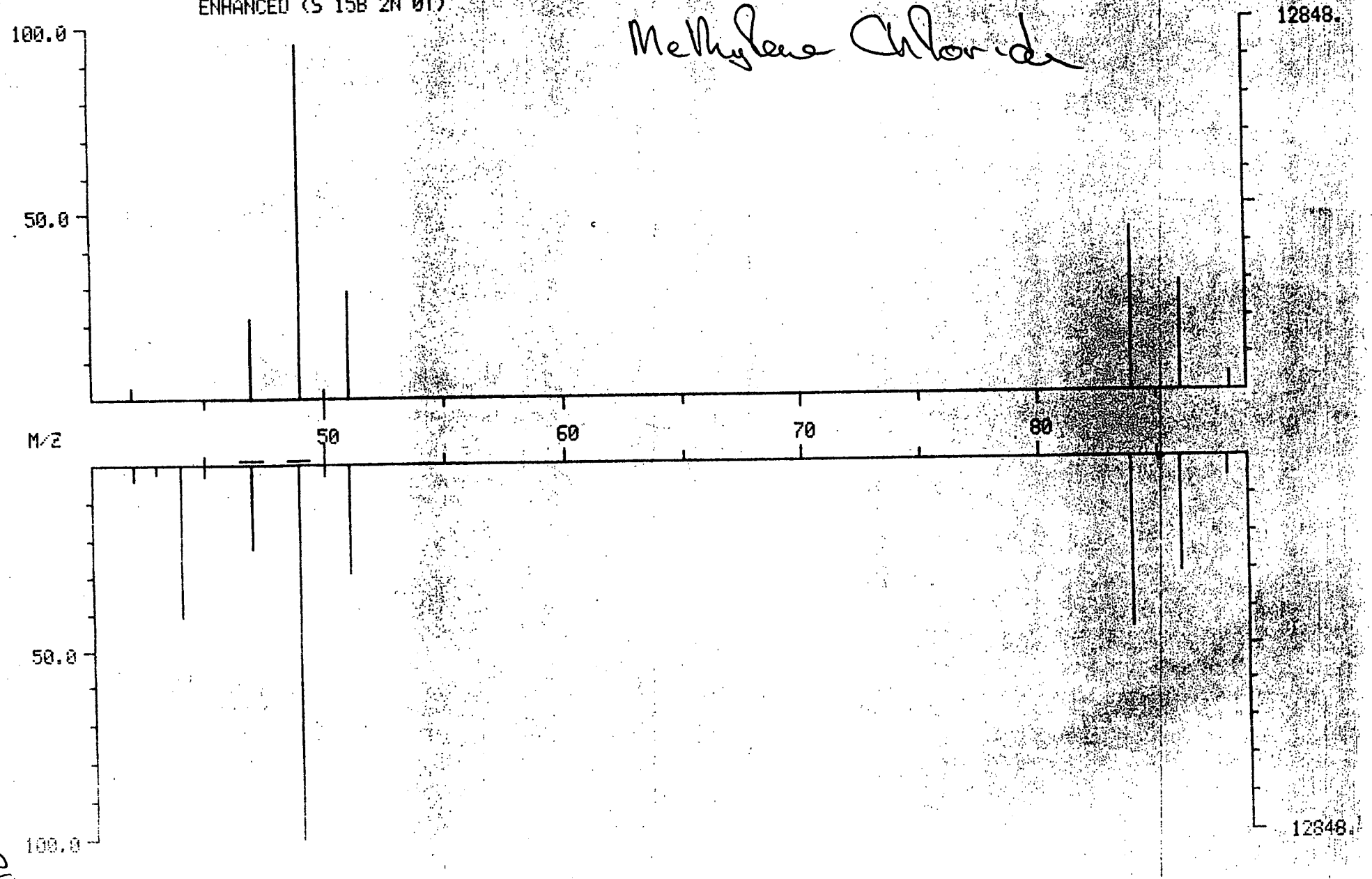
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	84	131	6:33	1	0.604	A BB	32466.	74.285	NG	3.45
8	43	151	7:33	1	0.696	A BV	12583.	108.460	NG	5.04
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	96	261	13:03	1	1.203	A BB	229.	0.745	NG	0.03
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
17	NOT FOUND									
18	NOT FOUND									
19	114	501	25:03	19	1.000	A BB	290558.	250.000	NG	11.61
20	43	300	15:00	19	0.599	A*BV	8641.	104.499	NG	4.85
21	97	331	16:33	19	0.661	A BB	6180.	14.481	NG	0.67
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	130	419	20:57	19	0.836	A BB	888.	1.527	NG	0.07
27	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	117	630	31:30	33	1.000	A BB	227069.	250.000	NG	11.61
34	43	525	26:15	33	0.833	A*BB	458.	310.044	NG	14.40
35	43	560	28:00	33	0.889	A*BB	1462.	298.135	NG	13.84
36	NOT FOUND									
37	NOT FOUND									
38	92	604	30:12	33	0.959	A BB	3414.	4.199	NG	0.20
39	NOT FOUND									
40	NOT FOUND									
41	NOT FOUND									
42	NOT FOUND									
43	NOT FOUND									
44	NOT FOUND									
45	NOT FOUND									
46	NOT FOUND									
47	100	599	29:57	33	0.951	A BB	202263.	233.322	NG	10.83
48	95	744	37:12	33	1.181	A BB	194126.	237.846	NG	11.04

DUAL MASS SPECTRUM
03/24/86 14:22:00 + 6:33
SAMPLE: 5ML 660554
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6397 #131
CALI: PU6397 #2

BASE M/Z: 49/ 49
RIC: 29439./ 36671.

Methylene Chloride

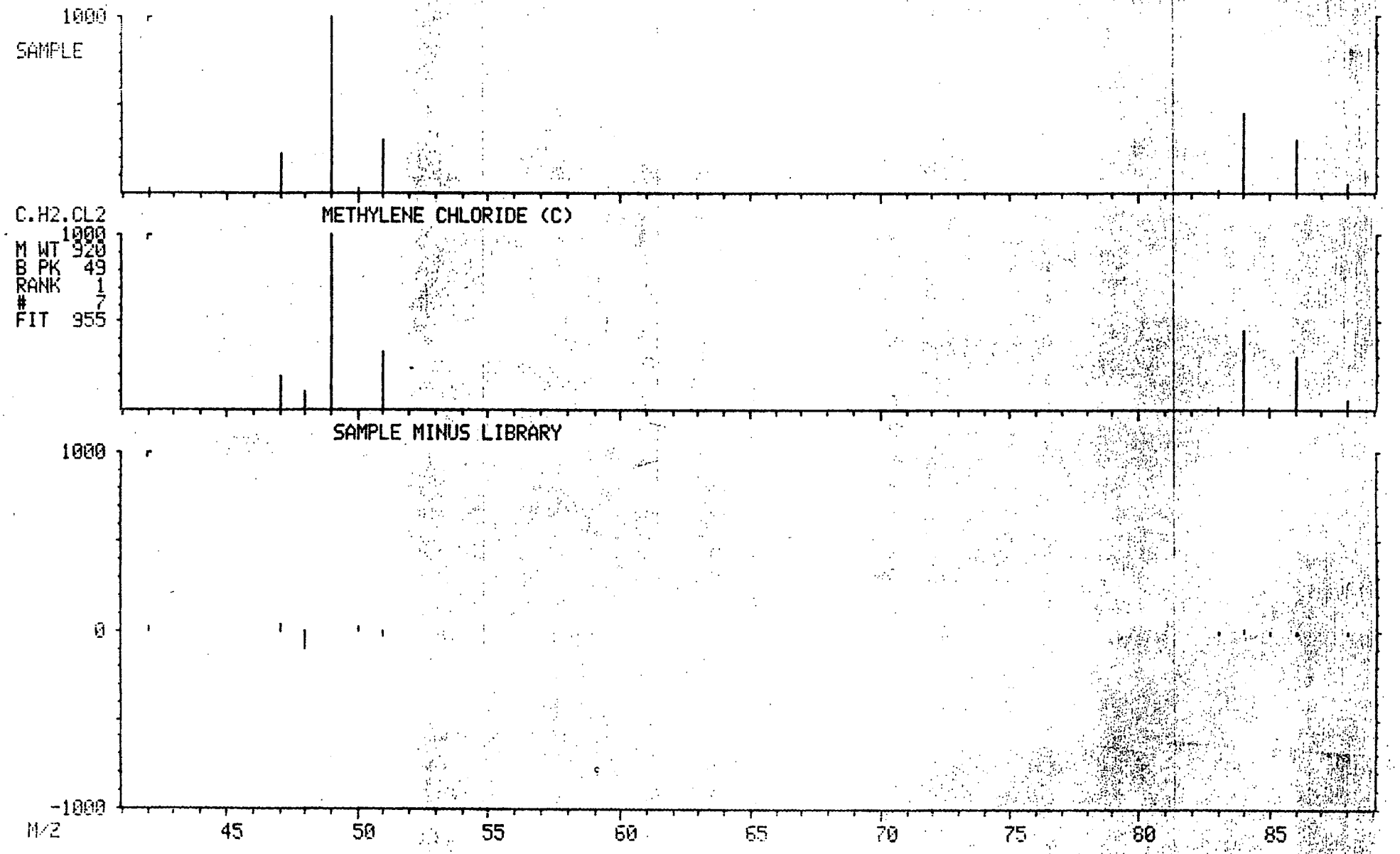


31

LIBRARY SEARCH
03/24/86 14:22:00 + 6:33
SAMPLE: 5ML 660554
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6397 # 131
CALI: PU6397 # 2

BASE M/Z: 49
RIC: 29439.



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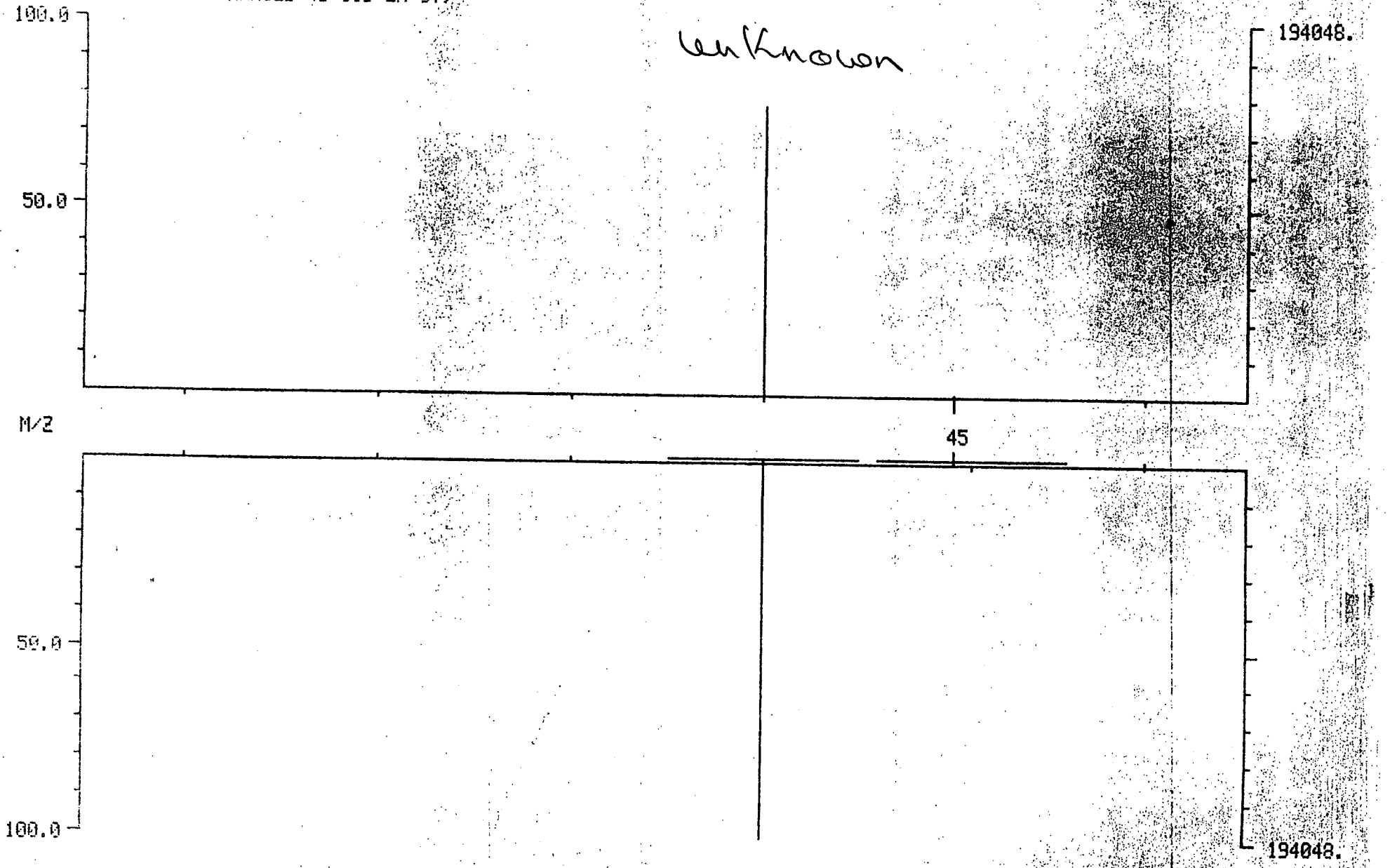
DUAL MASS SPECTRUM
09/24/86 14:22:00 + 1:06
SAMPLE: 5ML 660554
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6397 #22
CALI: PU6397 #2

BASE M/Z: 44/ 44
RIC: 153087./ 196863.

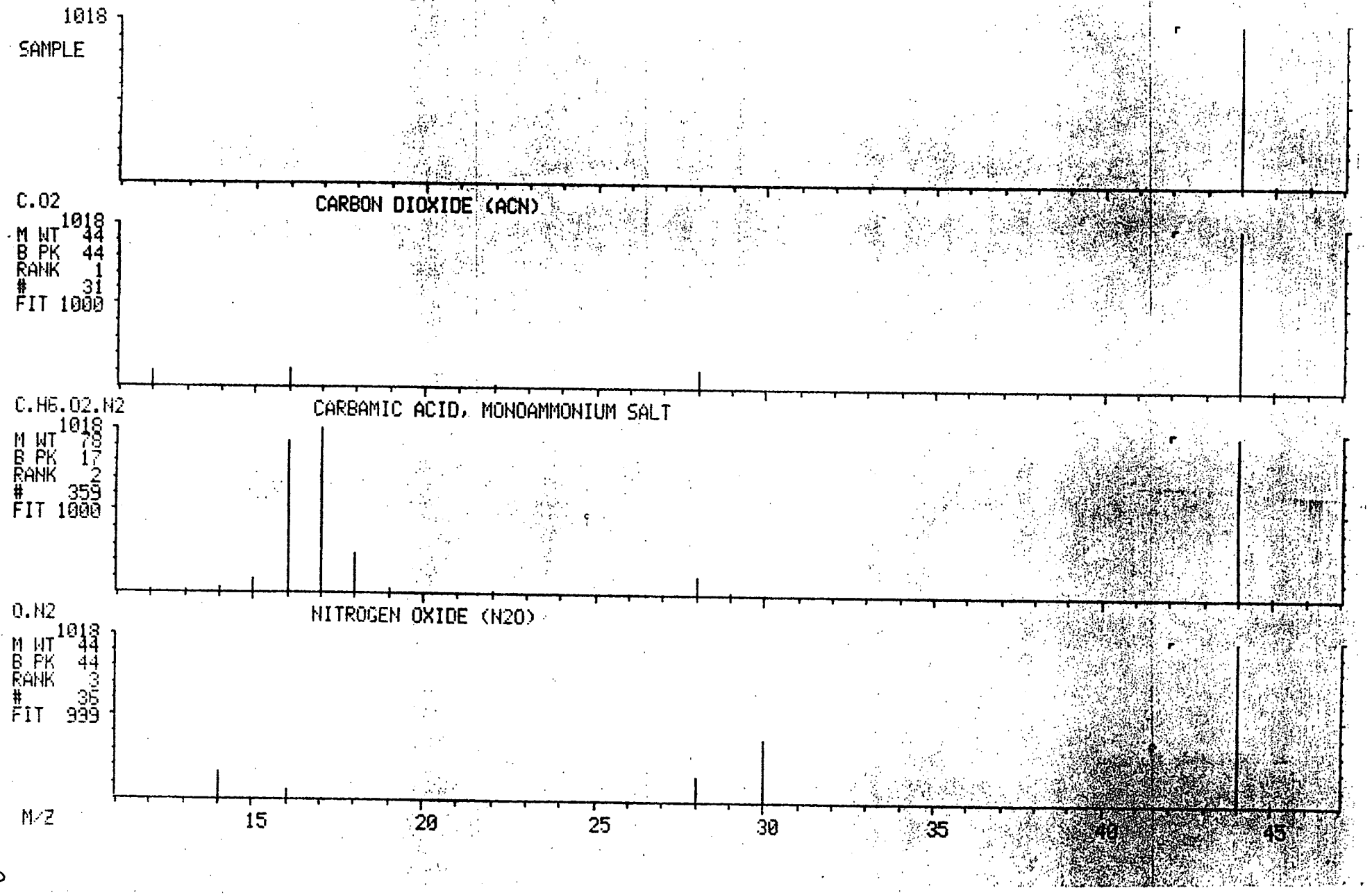


3/9

LIBRARY SEARCH
09/24/86 14:22:00 + 1:06
SAMPLE: 5ML 660554
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6397 # 22
CALI: PU6397 # 2

BASE M/Z: 44
RIC: 153087.



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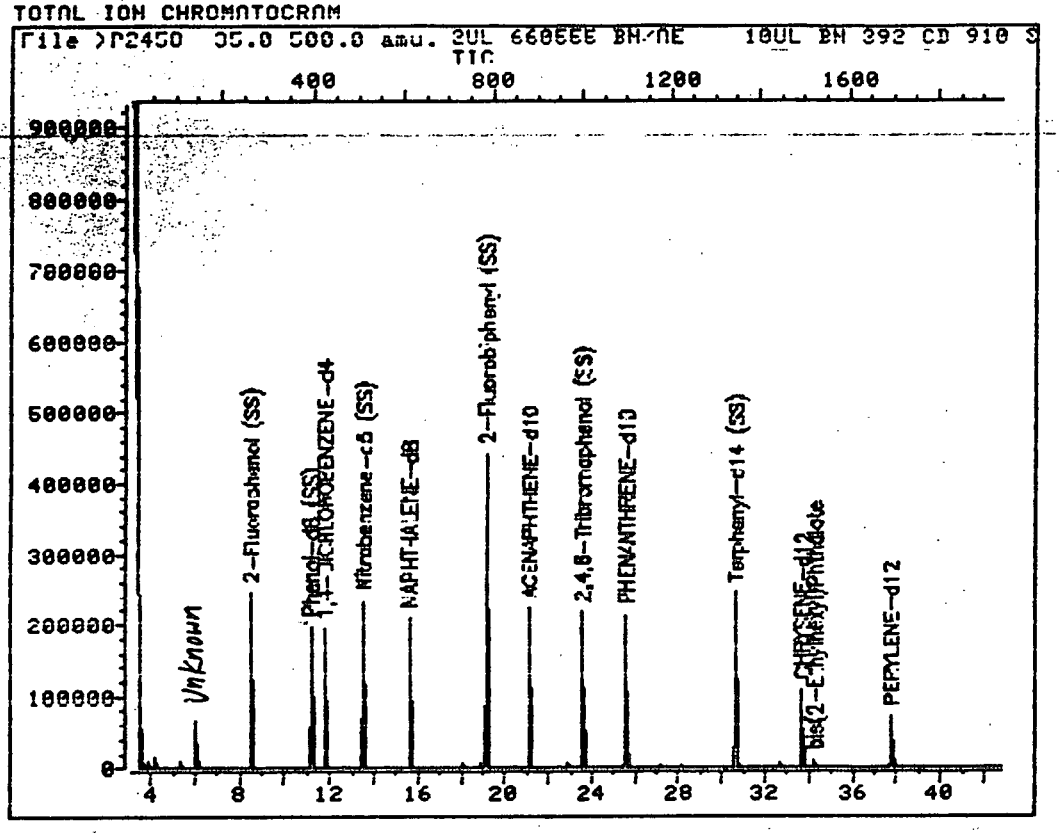
TOTAL ION CHROMATOGRAM



Data File: >P2458::D1
Name: 2UL 660555 BN/AE
Misc: 10UL BN 392 CD 910 SW2

BTL#90

Id File: IIDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860922 14:19

Operator ID: STEVE
Quant Time: 860922 14:24
Injected at: 860922 10:56

QUANT REPORT

Operator ID: STEVE
Output File: ^P2458::OP
Data File: >P2458::D1
Name: 2UL 660555 BN/AE
Misc: 10UL BN 392 CD 910 SW2

Quant Rev: 4

Quant Time: 860922 14:24
Injected at: 860922 10:56
Dilution Factor: 1.00

BTL#90

ID File: IIDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860922 14:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.77	425	70627	40.00	NG	89
3)	2-Fluorophenol (SS)	8.50	265	145195	65.66	NG	95
7)	Phenol-d6 (SS)	11.14	394	131847	45.85	NG	82
15)	*NAPHTHALENE-d8	15.59	612	264499	40.00	NG	47
16)	Nitrobenzene-d5 (SS)	13.51	510	212110	68.54	NG	89
27)	*ACENAPHTHENE-d10	21.09	881	126812	40.00	NG	95
31)	2-Fluorobiphenyl (SS)	19.15	786	374680	64.75	NG	95
42)	2,4,6-Tribromophenol (SS)	23.53	1000	68898	72.80	NG	90
43)	*PHENANTHRENE-d10	25.57	1100	220087	40.00	NG	54
54)	*CHRYSENE-d12	33.67	1496	124071	40.00	NG	47
55)	Terphenyl-d14 (SS)	30.62	1347	262001	103.70	NG	37
61)	bis(2-Ethylhexyl)Phthalate	34.22	1523	6322	2.43	NG	89
63)	*PERYLENE-d12	37.74	1695	106988	40.00	NG	78

* Compound is ISTD

MS data file header from : >P2458

Sample: 2UL 660555 BN/AE Operator: STEVE MS 9/22/86 10:56
Misc : 10UL BN 392 CD 910 SW2 BTL#90
Sys. #: 1 MS model: 96 SW/HW rev.: CA ALS # : 0
Method file: EXTRII Tuning file: MT9301 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 220 Transfer line temp. : 280

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

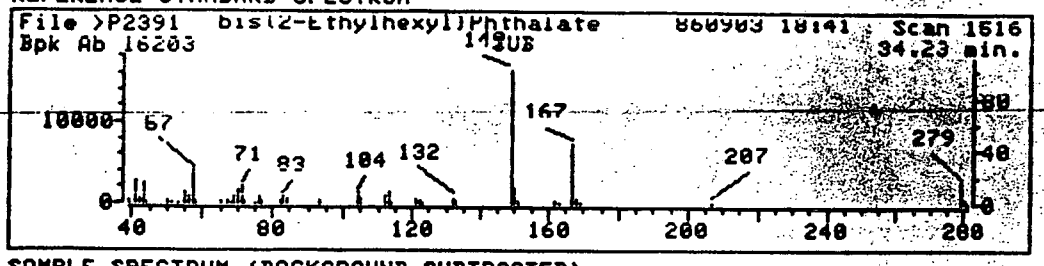
>P2458 2UL 660555 BN/AE 10UL BN 392 CD 910 SW2
35.01 500.0 CLP ADC TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	6.025	142	144	147	67053	128399	128399	21.92	5.49
2	11.771	422	425	428	193759	467627	467627	79.85	20.01
3	15.594	609	612	615	210053	580748	580748	99.16	24.85
4	25.573	1095	1100	1103	213531	585654	585654	100.00	25.06
5	33.672	1492	1496	1499	107054	316583	314896	53.77	13.47
6	37.742	1691	1695	1699	70776	260071	258881	44.20	11.08

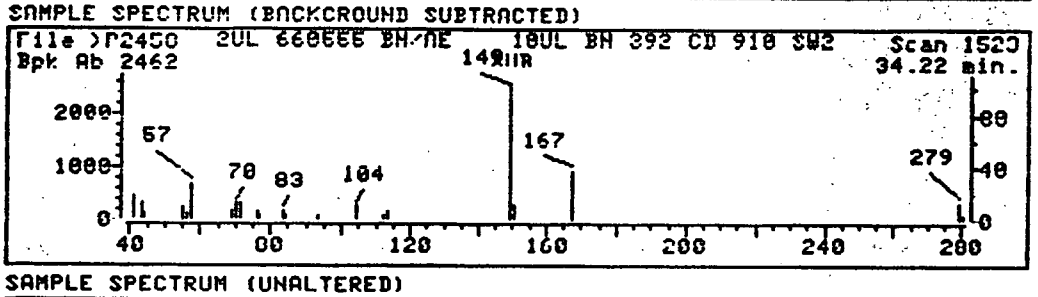
Sum of corrected areas: 2336205.

11:51 AM MON., 22 SEPT, 1986

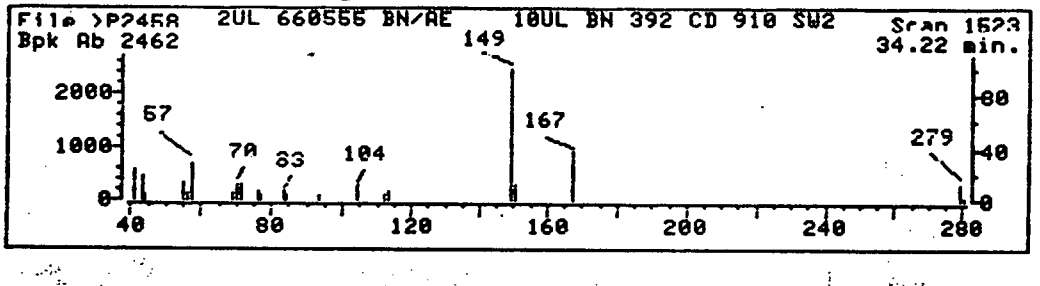
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



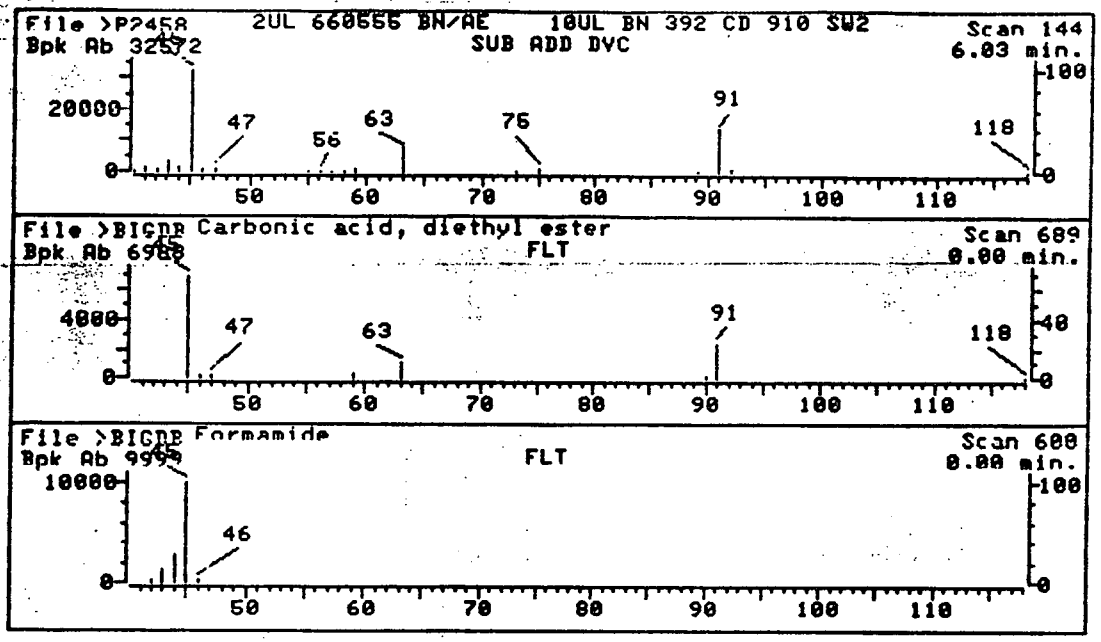
SAMPLE SPECTRUM (UNALTERED)



Data File: >P2458::D1
Name: 2UL 660555 BN/AE
Misc: 10UL BN 392 CD 910 SW2
Quant Time: 860922 14:24
Injected at: 860922 10:56

BTL#90

Compound No: 61
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1523
Retention Time: 34.22 min.
Area: 6322
Concentration: 2.43 NG
q-value: 89



1. Carbonic acid, diethyl ester 118 C5H10O3

Sample file: >P2458 Spectrum #: 144
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	44*	105588	689	"BIGDB	27	70	1	0	109	25	17	15

QUANTITATION FOR HSL COMPOUNDS

FOR WATER SAMPLES

$$\mu g/L = \frac{(A_x)(I_s)(V_t)}{(A_{IS})(RF)(V_o)(V_i)}$$

A_x = EICP AREA OF CHARACTERISTIC ION (FROM TABLES 4–6) FOR ANALYTIC*

A_{IS} = AREA OF CHARACTERISTIC ION OF ASSIGNED IS.

I_S = NG OF IS

V_o = VOLUME OF H_2O EXTRACTED IN ML.

V_i = VOLUME OF EXTRACT INJECTED IN μL.

V_t = TOTAL VOLUME OF EXTRACT (2000 μL. WHEN NO DILUTIONS)

*IF SECONDARY ION MUST BE USED BECAUSE OF INTERFERENCES A RF MUST BE GENERATED USING THE SECONDARY ION.

AND TENTATIVELY IDENTIFIED COMPOUNDS

CD910SW2: Example Quantitation HSL compound. Compounds are quantified according to the formula shown at left.

bis(2-ethylhexyl)phthalate:

$$\frac{(6322)(80)(1000)}{(124071)(.838)(1000)(2.0)} = 2.4\ \mu g/L$$

CD910SW2: Example quantitation HSL compound Unknown Scan 144:

$$\frac{(128399)(80)(1000)}{(467627)(1.00)(1000)(2.0)} = 11\ \mu g/L$$

TIC quantitation:
1) Assumes a response factor of 1.00
2) Total corrected areas of TIC and nearest Internal Standard used in place of EICP areas.

660556
CD910-SW2/SW2Q

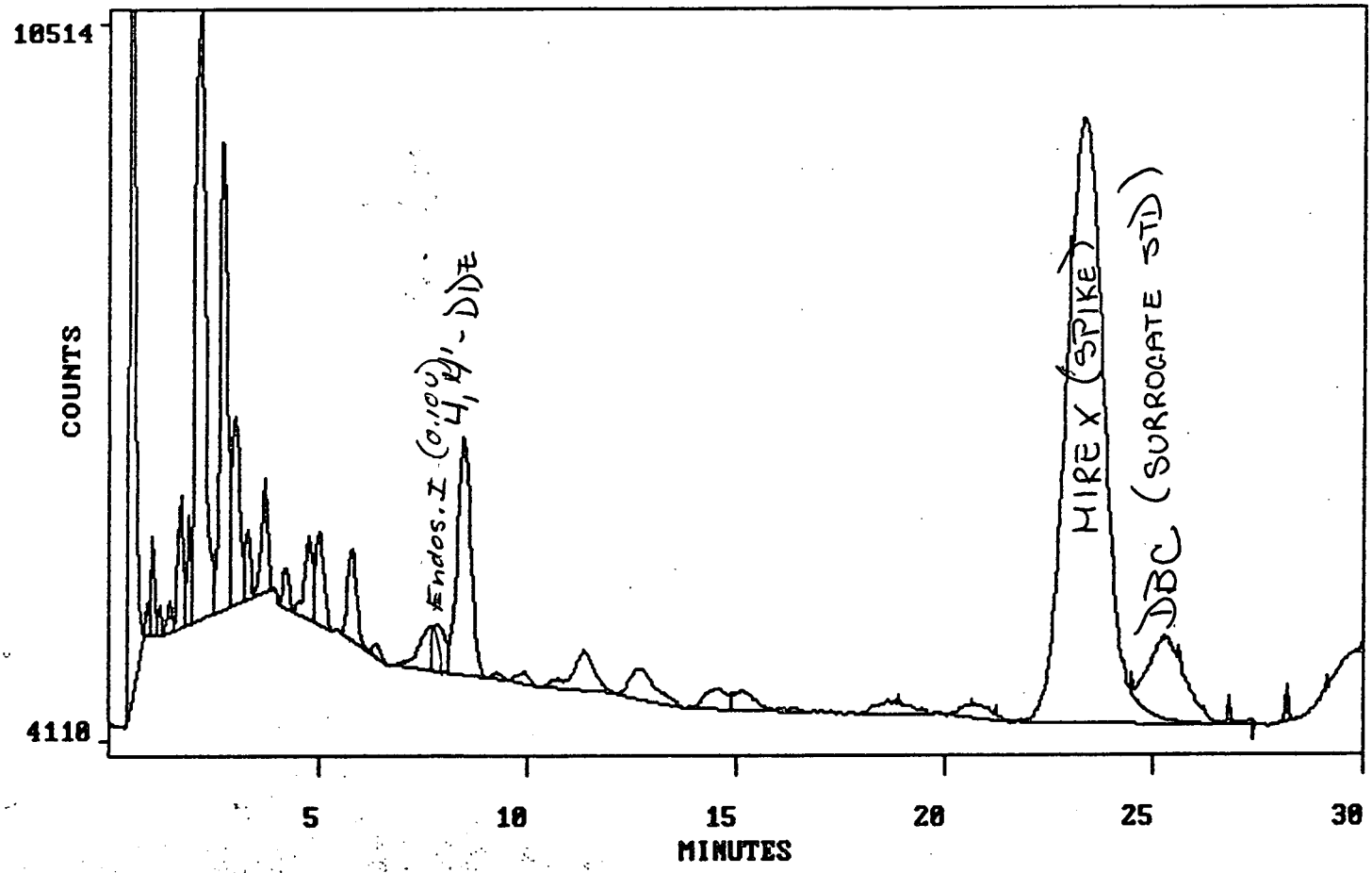
PRIMARY COLUMN

Time:17:20:27 Date:THU 02 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:20:53:31 Date:TUE 30 SEP 86
Method:PEST2

FILE: 1:PEST2191 SCALE: 100 RANGE (MIN.): 0.03 TO 30.00



1-9

Channel #.....4 Time:21:24:03 Date:TUE 30 SEP 86
Run #4 of 100

Sample name.....NJDEP
Data file.....DAT256:PEST2191
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....20:53:31 Acq. date....TUE 30 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0

Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..30
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %		Area	Peak Ht.	BL
1	0.552			79.623		2940182	699651	BB
2	0.952			0.054		2009	339	BV
3	1.075			0.138		5078	904	VV
4	1.257			0.030		1091	284	VB
5	1.497			0.058		2127	284	BV
6	1.733			0.301		11116	1195	VV
7	1.932			0.178		6564	984	VV
8	2.195			2.383		87980	5618	VV
9	2.716			1.412		52142	4311	VV
10	3.027			0.559	.0101	20654	1687	VV
11	3.326			0.135	.0036	5002	628	VV
12	3.711	Hept		0.274	.0271	10123 / 222.2	1047	VB
13	4.214			0.094	.01	3466	362	BV
14	4.755			0.277		10245	754	VV
15	5.007			0.298		11002	829	VB
16	5.780			0.316		11652	798	BE
17	6.372			0.043		1606	119	EB
18	7.881		ENDOSULFAN I	0.494	.119	18253 91.8	413	BV
19	8.531		4,4'-DDE	1.292	.129	47704 222.2	2099	VB
20	9.312			0.019		692	51	BB
21	9.959			0.048		1776	97	BB
22	11.410		ENDRIN	0.345	.0854	12757 / 8554	343	BB

328

23	12.710		0.292	.05 10774	258	BB
24	14.555		0.190	7000	177	BV
25	15.172		0.187	.04 6914	160	VB
26	18.691		0.177	6521	116	BB
27	20.749		0.166	6118	126	BB
28	23.432	MIREX	9.420	347848	5356	BE
29	25.384	DBC	1.159	42806	705	EB
30	28.351		0.039	1435	94	BB
TOTALS			100.000	3692637		

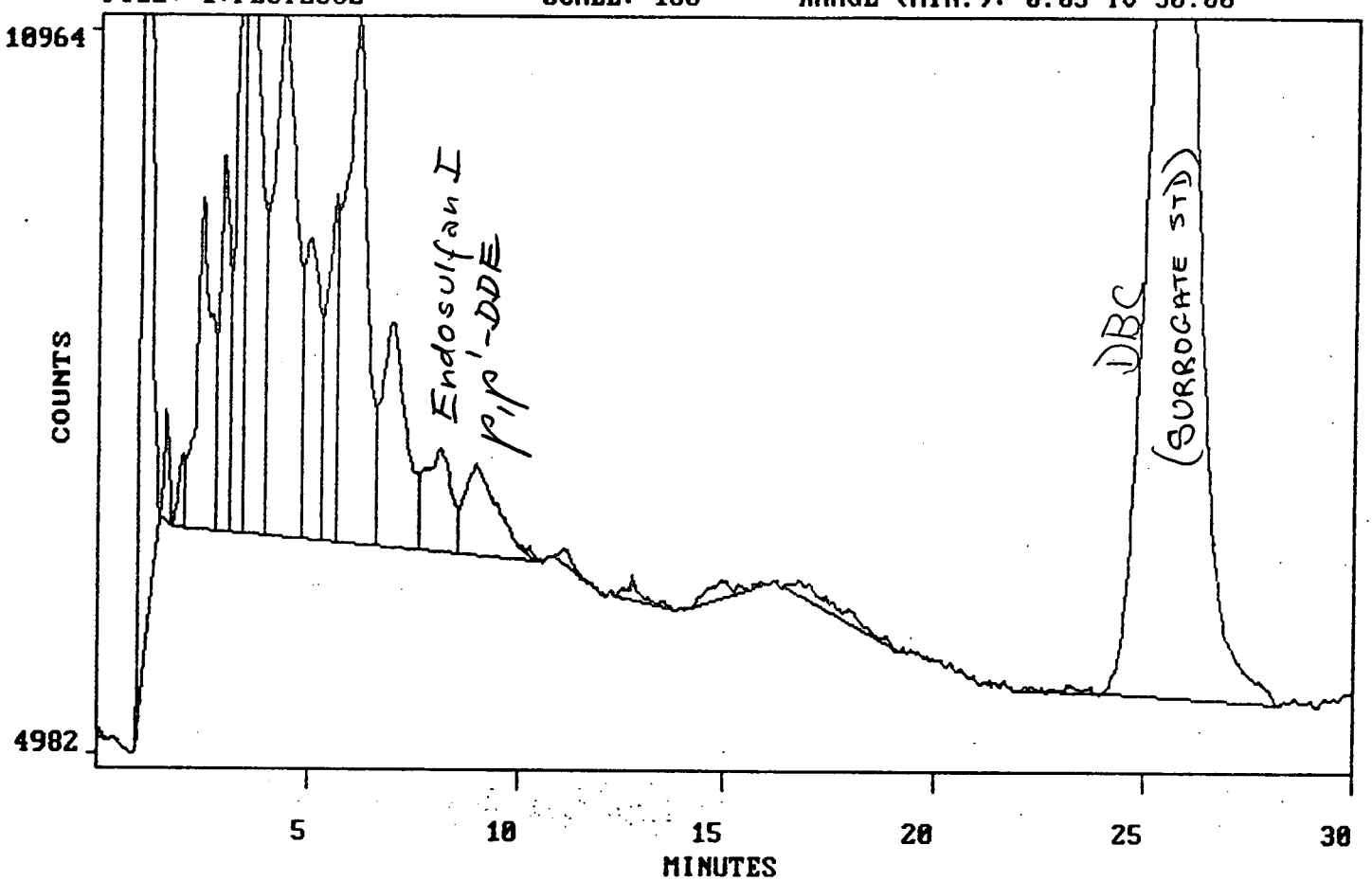
660556
CD910-SW2/SW2Q
CONFIRMATORY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:14:06:41 Date:THU 09 OCT 86

Time:13:33:43 Date:THU 09 OCT 86
Method:PEST2

FILE: 1:PEST2302 SCALE: 100 RANGE (MIN.): 0.03 TO 30.00



24

330

Channel #.....4 Time:14:04:27 Date:THU 09 OCT 86
Run #10 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2302
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....~~Y~~-2 3% SP-2100 on 100/120 SUPELCOPORT
Notes.....~~Primary~~ Column Runs
Confirmatory

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....13:33:43 Acq. date....THU 09 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0

Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..24
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

0.03295

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	1.093			76.498	5324281	599547	BB
2	1.640			0.106	7367	947	BB
3	2.031			0.100	6966	612	BV
4	2.478			0.975	67835	2773	VV
5	2.985			0.764	53189	3137	VV
6	0.132 3.375			1.052	73191	5144	VV
7	0.141 3.613			1.782	124027	5455	VV
8	0.172 4.367			2.398	166884	4553	VV
9	0.195 5.001			0.941	65510	2519	VV
10	0.218 5.603			0.697	48536	2892	VV
11	0.238 6.116			2.312	160949	4392	VV
12	0.271 6.959			1.083	75403	1877	VV
13	0.317 8.129		ENDOSULFAN I	0.555	38606	858	VV
14	0.350 8.993		4,4'-DDE	0.583	40610	761	VE
15	0.400 10.266			0.012	865	78	EB
16	0.434 11.141			0.027	1898	123	BB
17	0.499 12.805			0.054	3733	131	BB
18	0.585 15.010			0.093	6465	137	BB
19	0.619 15.882			0.007	504	28	BB
20	0.654 16.780			0.146	10139	108	BB

23	25.671	DBC	9.773	680192	.8758	BB
TOTALS			100.000	6960028		

III. 2. Reporting Package
NJ DEP I.D. # TB- Trip Blank

H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Lab No. 660558
Type: Misc. - Tier I
Point: Trip Blank
Date Collected: 9/11/86
Date Received: 9/12/86
Collected By: CL 99

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Scan No.	Cas Number	Compound	ug/l
	74-87-3	Chloromethane	10U
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl chloride	10U
	75-00-3	Chloroethane	10U
135	75-09-2	Methylene chloride	15
	75-69-4	Trichlorofluoromethane	10U
	75-35-4	1,1-dichloroethene	10U
	75-34-3	1,1-dichloroethane	10U
	156-60-5	Cis/Trans-1,2-dichloroethene	10U
	67-66-3	Chloroform	10U
	107-06-2	1,2-dichloroethane	10U
	71-55-6	1,1,1-Trichloroethane	10U
	56-23-5	Carbon tetrachloride	10U
	75-27-4	Bromodichloromethane	10U
	79-34-5	1,1,2,2-Tetrachloroethane	10U
	70-87-5	1,2-dichloropropane	10U
	10061-02-6	Trans-1,3-dichloropropene	10U
	79-01-6	Trichloroethene	10U
	124-48-1	Dibromochloromethane	10U
	79-00-5	1,1,2-trichloroethane	10U
	71-43-2	Benzene	10U
	10061-01-5	cis-1,3-Dichloropropene	10U
	110-75-8	2-chloroethylvinyl ether	10U
	75-25-2	Bromoform	10U
	127-10-4	Tetrachloroethene	10U
	106-88-3	Toluene	10U
	106-90-7	Chlorobenzene	10U
	100-41-4	Ethylbenzene	10U
	541-73-1	1,2-Dichlorobenzene	10U
	95-50-1	1,3-Dichlorobenzene	10U
	106-46-1	1,4-Dichlorobenzene	10U

Date Reported: 10/15/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: Trip Blank

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob. FIT	% Prob. RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown (Carbon Dioxide)			13	30B
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H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

Lab Name: H2M Labs

Sample Lab No. 660559 - TB

Concentration: Low

Date Extracted: 9/16/86 - 9/17/86

Date Analyzed: 9/22/86

Conc Factor: 1000:1

Semi-Volatile Compounds

C.A.S. Number		ug/l	C.A.S. Number		ug/l
65-75-9	N-Nitrosodimethylamine	10U	83-32-9	Acenaphthene	10U
108-95-2	Phenol	10U	51-28-5	2,4-Dinitrophenol	10U
62-53-3	Aniline	10U	100-02-7	4-Nitrophenol	10U
111-44-4	bis(2-Chloroethyl)Ether	10U	121-14-2	2,4-Dinitrotoluene	10U
95-57-8	2-Chlorophenol	10U	606-20-2	2,6-Dinitrotoluene	10U
541-73-1	1,3-Dichlorobenzene	10U	84-66-2	Diethylphthalate	10U
106-46-7	1,4-Dichlorobenzene	10U	7005-72-3	4-Chlorophenyl-phenylether	10U
95-50-1	1,2-Dichlorobenzene	10U	86-73-7	Fluorene	10U
39638329	bis(2-chloroisopropyl)ether	10U	534-52-1	4,6-Dinitro-2-Methylphenol	50U
621-64-7	N-Nitroso-Di-n-Propylamine	10U	86-30-6	N-Nitrososdiphenylamine (1)	10U
67-72-1	Hexachloroethane	10U	101-55-3	4-Bromophenyl-phenylether	10U
98-95-3	Nitrobenzene	10U	118-74-1	Hexachlorobenzene	10U
78-59-1	Isophorone	10U	87-86-5	Pentachlorophenol	50U
88-75-5	2-Nitrophenol	10U	85-01-8	Phenanthrene	10U
105-67-9	2,4-Dimethylphenol	10U	120-12-7	Anthracene	10U
111-91-1	bis(2-Chloroethoxy)Methane	10U	84-74-2	Di-n-Butylphthalate	10U
120-83-2	2,4-Dichlorophenol	10U	206-44-0	Fluoranthene	10U
120-82-1	1,2,4-Trichlorobenzene	10U	92-87-5	Benzidine	80U
91-20-3	Naphthalene	10U	129-00-0	Pyrene	10U
87-68-3	Hexachlorobutadiene	10U	85-68-7	Butylbenzylphthalate	10U
59-50-7	4-Chloro-3-Methylphenol	10U	91-94-1	3,3'-Dichlorobenzidine	20U
77-47-4	Hexachlorocyclopentadiene	10U	56-55-3	Benzo(a)Anthracene	10U
88-06-2	2,4,6-Trichlorophenol	10U	117-81-7	bis(2-Ethylhexyl)Phthalate	10U
91-58-7	2-Chloronaphthalene	10U	218-01-9	Chrysene	10U
131-11-3	Dimethyl Phthalate	10U	117-84-0	Di-n-Octyl Phthalate	10U
208-96-8	Acenaphthylene	10U	205-99-2	Benzo(b)Fluoranthene	10U
			207-08-9	Benzo(k)Fluoranthene	10U
			50-32-8	Benzo(a)Pyrene	10U
			193-39-5	Indeno(1,2,3-cd)Pyrene	10U
			53-70-3	Dibenzo(a,h)Anthracene	10U
			191-24-2	Benzo(g,h,i)Perylene	10U

(1) Cannot be separated from diphenylamine

Date Reported: 10/16/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: FB

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob FIT	% Prob RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	-	-	141	11J
2.						
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JmSlau

H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 660560
Date Extracted: 9/18/86
Date Analyzed: 10/6/86
Type: Misc. - Tier I
Point: TB
Collected By: CL 99

ANALYSIS FOR PESTICIDES/PCB's

C.A.S. No.	Compound	ug/l
319-84-6	Alpha-BHC	0.05U
319-87-7	Beta-BHC	0.05U
319-86-8	Delta-BHC	0.06B
58-89-9	Gamma-BHC (Lindane)	0.05U
76-44-8	Heptachlor	0.05U
309-00-2	Aldrin	0.05U
1024-57-3	Heptachlor Epoxide	0.05U
959-98-8	Endosulfan I	0.05U
60-57-1	Dieldrin	0.10U
72-55-9	4,4'-DDE	0.10U
72-20-8	Endrin	0.10U
33213-65-9	Endosulfan II	0.10U
72-54-8	4,4'-DDD	0.10U
1031-07-8	Endosulfan Sulfate	0.10U
50-29-3	4,4'-DDT	0.10U
72-43-5	Methoxychlor	0.50U
53494-70-5	Endrin Ketone	0.10U
57-74-9	Chlordane	0.50U
8001-35-2	Toxaphene	1.0U
12674-11-2	Aroclor 1016	0.50U
11104-28-2	Aroclor 1221	0.50U
11141-16-5	Aroclor 1232	0.50U
53469-21-9	Aroclor 1242	0.50U
12672-29-6	Aroclor 1248	0.50U
11097-69-1	Aroclor 1254	1.0U
11096-82-5	Aroclor 1260	1.0U

Vi = Volume of extract injected (uL)
Ws = Weight of sample extracted (g)
Vs = 1000 mL Vt = 3 mLs
Date Reported: 10/17/86

Vs = Volume of water extracted (mL)
Vt = Volume of Total extract (mL)
Vi = 5 uL

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S.C. McLendon, P.E.
Laboratory Director

Lab Name : H2M LABS

Sample Number
660560

NJDEP #CD910-TB

ORGANICS ANALYSIS DATA SHEET

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Probability Fit	% Probability RFit	RT or Scan Number	Estimated Concentration (ug/L or ug/kg)
1.		Unknown			2.24	1.0
2.						
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Date Reported 10-17-86

S.C. McLendon, P.E.
Laboratory Director

H2M
Environmental Engineers & Scientists
HOLZMACHER, McLENDON and MURRELL, P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

WATER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

LAB NO. 660561
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.
65 PROSPECT ST.
TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 9/11/86 DATE RECEIVED - 9/12/86

NJDEP SAMPLE #CD 910-TB
NJDEP SAMPLE POINT I.D. #TRIP BLANK

PARAMETER	RESULT		PARAMETER	RESULT	
ANTIMONY	<60.0 #		SELENIUM	<5.00#	
ARSENIC	<10.0 #		SILVER	<10.0 #	
BERYLLIUM	<5.00#	N	THALLIUM	<10.0 #	N
CADMIUM	<5.00#		ZINC	<20.0 #	
CHROMIUM	<10.0 #		PHENOLS	<1.00#	N
COPPER	<25.0 #	N	CYANIDE	<10.0 #	
LEAD	<2.00#	N			
MERCURY	<0.20#				
NICKEL	<40.0 #				

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 10/ 8/86

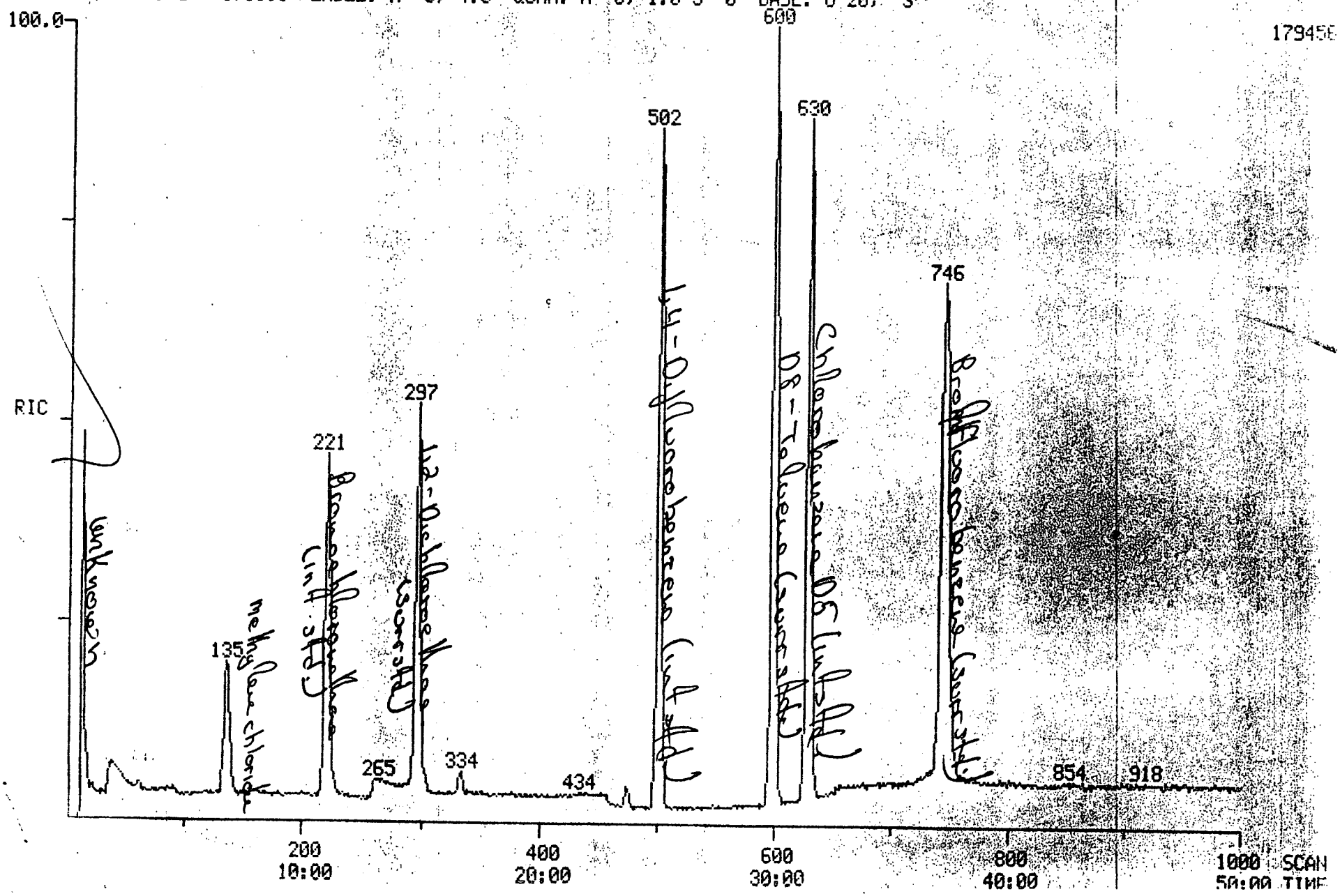
S. J. McLENDON, P.E., LABORATORY DIRECTOR

THE LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

RIC
09/24/86 12:32:00
SAMPLE: 5ML 660558
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6395 #1
CALI: PU6395 #2

SCANS 1 TO 1000



GC/MS FINISHED, 7 FOUND
FINISHED AT: 9/25/86 12:52:08

QUANTITATION REPORT FILE: PU6395

DATA: PU6395.TI
09/24/86 12:32:00
SAMPLE: 5ML 660558
CONDS.:
SUBMITTED BY: NJDEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D8-TOLUENE(SURR. STD)
48	BROMOFLUORBENZENE(SURR. STD)

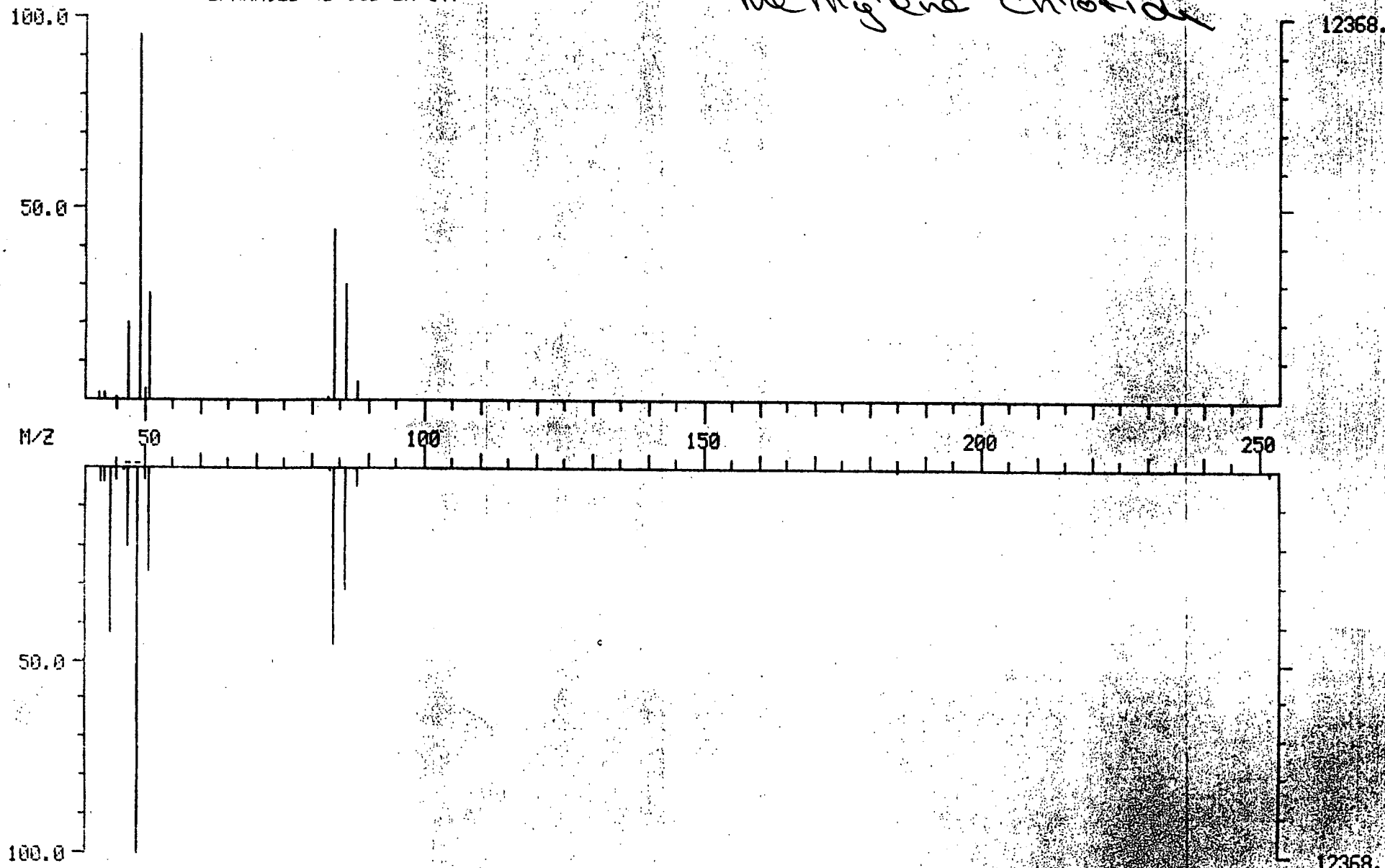
3	NOT	FOUND								
4	NOT	FOUND								
5	NOT	FOUND								
6	NOT	FOUND								
7	84	135	6:45	1	0.611	A BB	30898.	73.807	NG	3.50
8	43	163	8:09	1	0.738	A BV	1677.	15.091	NG	0.72
9	NOT	FOUND								
10	NOT	FOUND								
11	NOT	FOUND								
12	NOT	FOUND								
13	NOT	FOUND								
14	NOT	FOUND								
15	NOT	FOUND								
16	NOT	FOUND								
17	NOT	FOUND								
18	NOT	FOUND								
19	114	502	25:06	19	1.000	A BB	281482.	250.000	NG	11.85
20	43	303	15:09	19	0.604	A BB	5478.	68.386	NG	3.24
21	97	334	16:42	19	0.665	A BB	5095.	12.324	NG	0.58
22	NOT	FOUND								
23	NOT	FOUND								
24	NOT	FOUND								
25	NOT	FOUND								
26	NOT	FOUND								
27	NOT	FOUND								
28	NOT	FOUND								
29	78	438	21:54	19	0.873	A BB	163.	0.106	NG	0.01
30	NOT	FOUND								
31	NOT	FOUND								
32	NOT	FOUND								
33	117	630	31:30	33	1.000	A BB	219940.	250.000	NG	11.85
34	43	521	26:03	33	0.827	A BB	649.	453.582	NG	21.50
35	43	567	28:21	33	0.900	A*BV	1246.	262.323	NG	12.44
36	NOT	FOUND								
37	NOT	FOUND								
38	92	603	30:09	33	0.957	A BB	858.	1.090	NG	0.05
39	NOT	FOUND								
40	NOT	FOUND								
41	NOT	FOUND								
42	NOT	FOUND								
43	NOT	FOUND								
44	NOT	FOUND								
45	NOT	FOUND								
46	NOT	FOUND								
47	100	600	30:00	33	0.952	A BB	196116.	233.564	NG	11.07
48	95	746	37:18	33	1.184	A BB	180129.	227.851	NG	10.80

DUAL MASS SPECTRUM
09/24/86 12:32:00 + 6:45
SAMPLE: 5ML 6E0558
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6395 #135
CALI: PU6395 #2

BASE M/Z: 49/ 49
RIC: 28639./ 35519.

methylene chloride



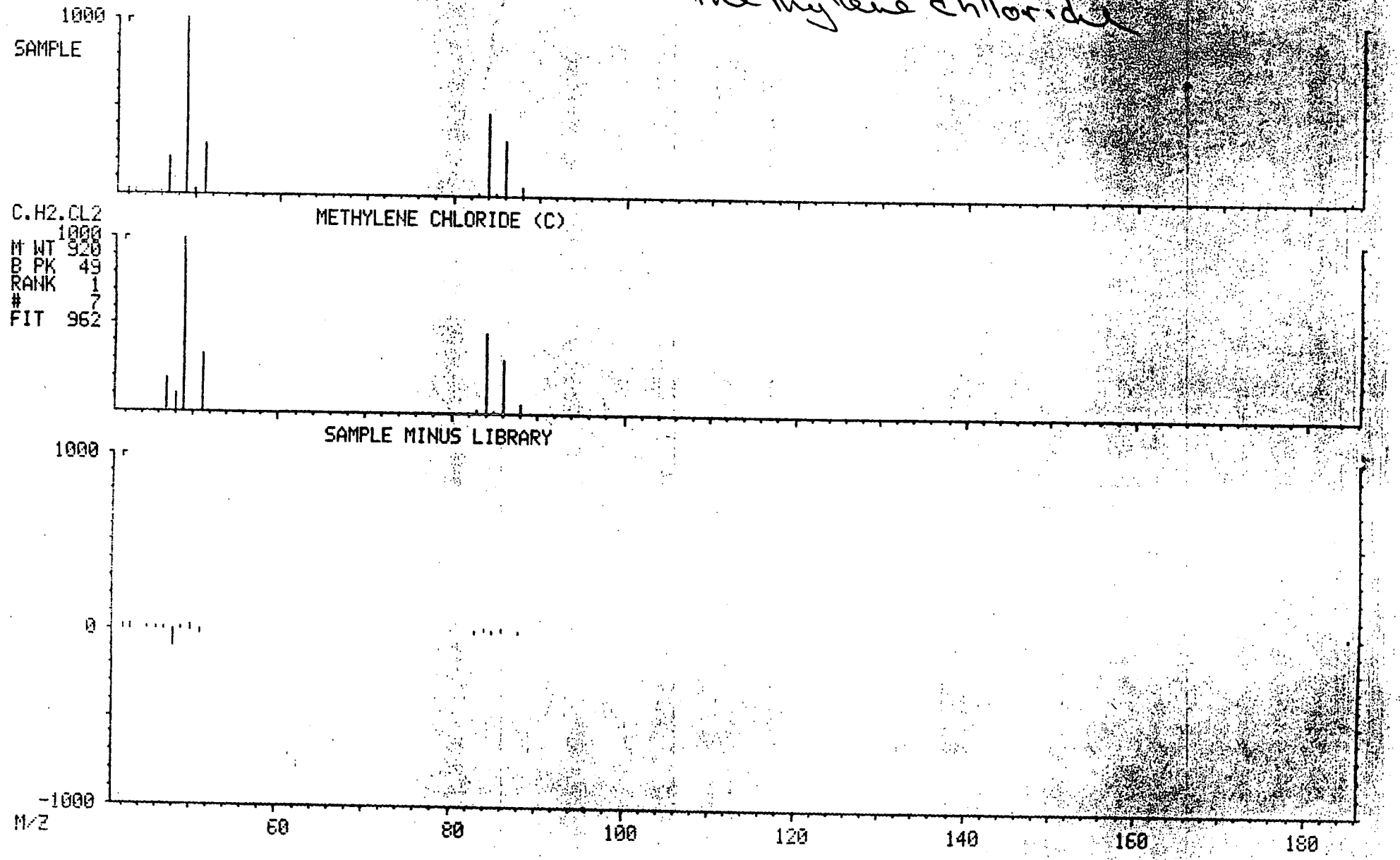
344

LIBRARY SEARCH
09/24/86 12:32:00 + 6:45
SAMPLE: 5ML 660558
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6395 # 135
CALI: PU6395 # 2

BASE M/Z: 49
RIC: 28639.

methylene chloride



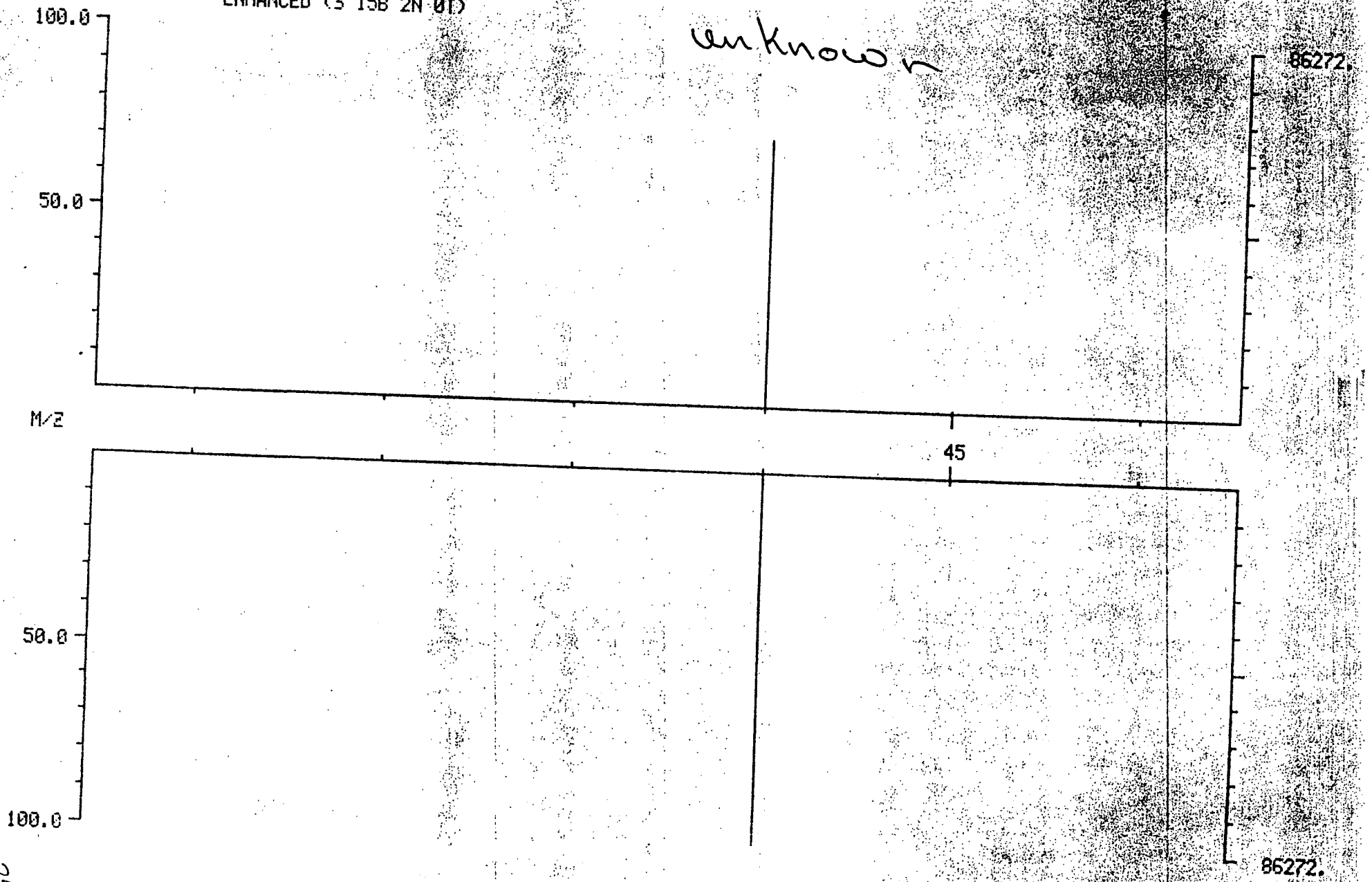
345

DUAL MASS SPECTRUM
09/24/86 12:32:00 + 0:39
SAMPLE: 5ML 660558
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6395 #13
CALI: PU6395 #2

BASE M/Z: 44/ 44
RIC: 63423./ 87295.

unknown



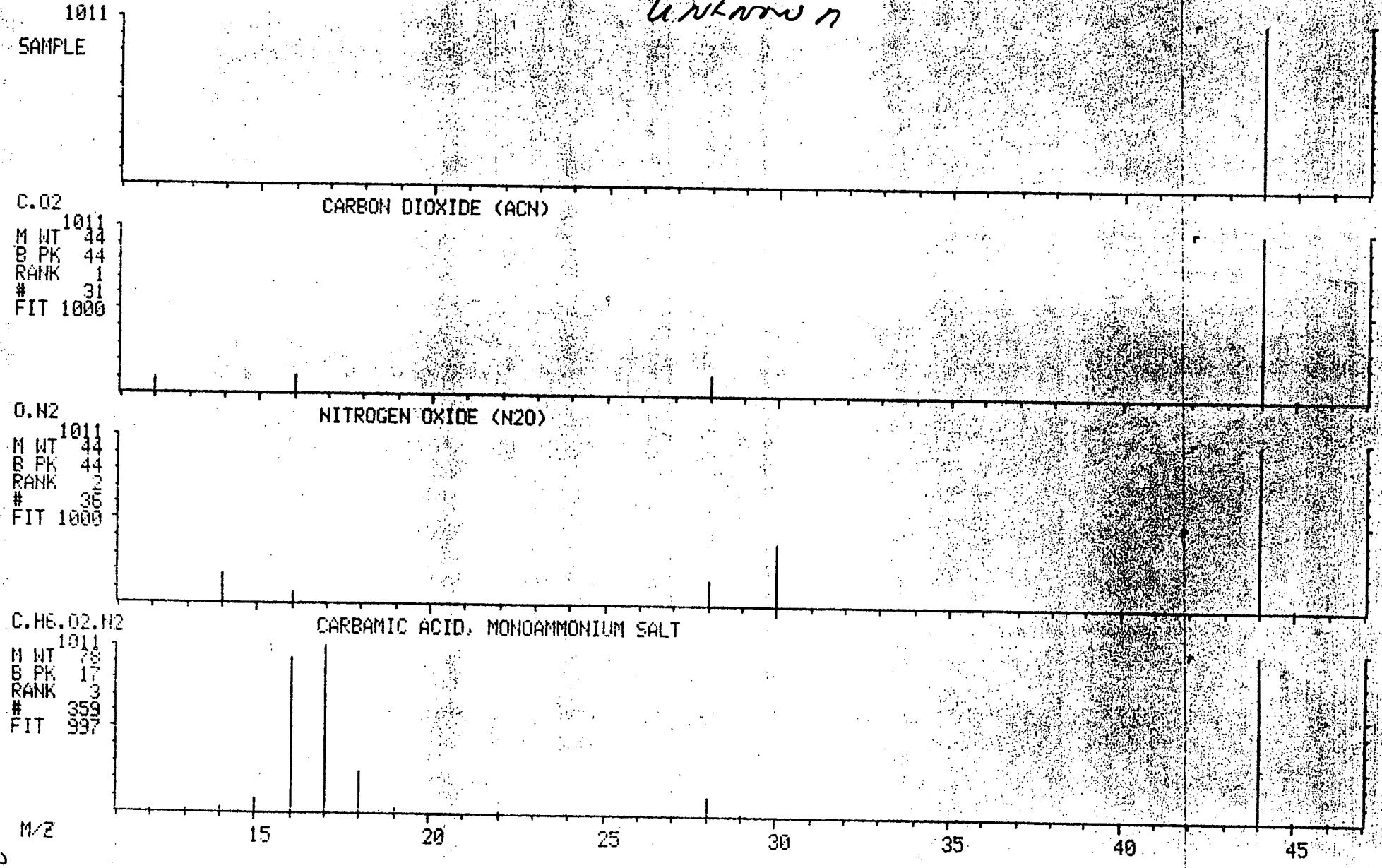
346

LIBRARY SEARCH
09/24/86 12:32:00 + 0:39
SAMPLE: 5ML 660558
CONDS.:
ENHANCED (S 15B 2N 0T)

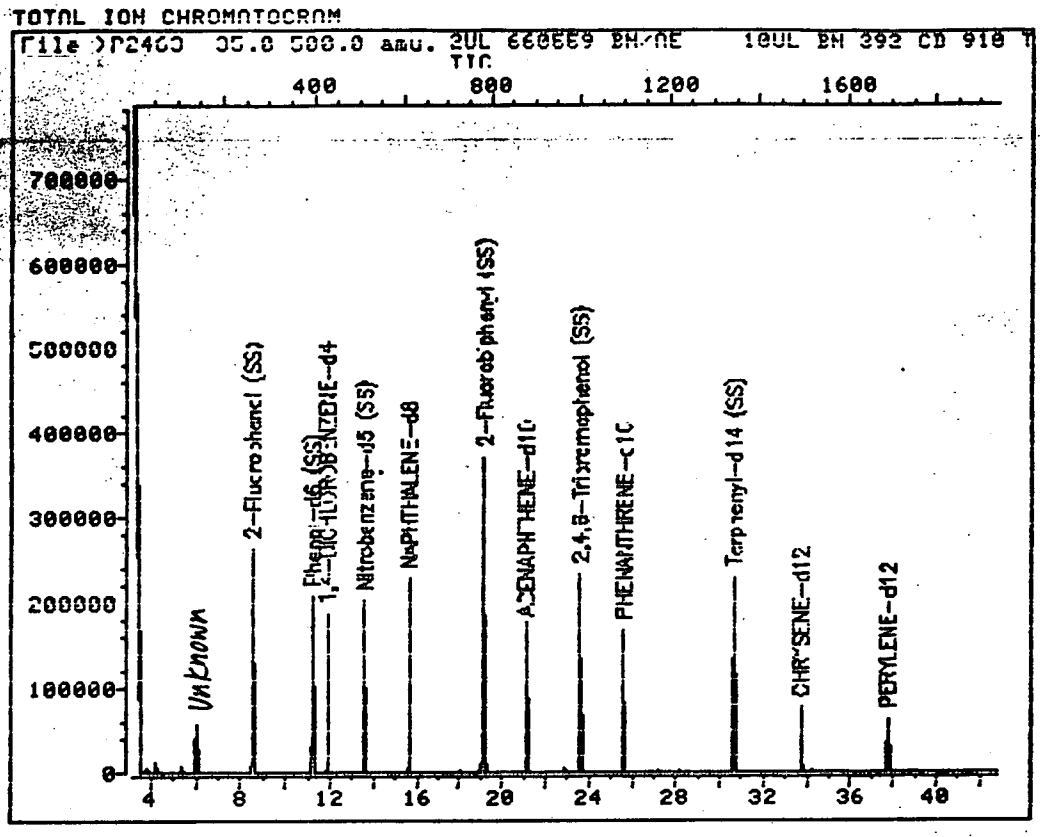
DATA: PU6395 # 13
CALI: PU6395 # 2

BASE M/Z: 44
RIC: 63359.

unknown



347



Data File: >P2463::D1
Name: 2UL 660559 BN/AE
Misc: 10UL BN 392 CD 910 TB

BTL#95

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860922 14:19

Operator ID: STEVE
Quant Time: 860922 16:08
Injected at: 860922 15:23

QUANT REPORT

Operator ID: STEVE Quant Rev: 4 Quant Time: 860922 16:08
Output File: ^P2463::OP Injected at: 860922 15:23
Data File: >P2463::D1 Dilution Factor: 1.00
Name: 2UL 660559 BN/AE
Misc: 10UL BN 392 CD 910 TB BTL#95

ID File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860922 14:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.82	426	64159	40.00	NG	88
3)	2-Fluorophenol (SS)	8.49	263	164219	81.75	NG	89
7)	Phenol-d6 (SS)	11.19	395	192862	73.83	NG	77
15)	*NAPHTHALENE-d8	15.60	611	221669	40.00	NG	48
16)	Nitrobenzene-d5 (SS)	13.54	510	172072	66.35	NG	92
27)	*ACENAPHTHENE-d10	21.10	880	109918	40.00	NG	95
31)	2-Fluorobiphenyl (SS)	19.14	784	327778	65.35	NG	99
42)	2,4,6-Tribromophenol (SS)	23.56	1000	77159	94.07	NG	88
43)	*PHENANTHRENE-d10	25.56	1098	201668	40.00	NG	51
54)	*CHRYSENE-d12	33.68	1495	106619	40.00	NG	45
55)	Terphenyl-d14 (SS)	30.61	1345	230452	106.15	NG	37
63)	*PERYLENE-d12	37.73	1693	86114	40.00	NG	79

* Compound is ISTD

MS data file header from : >P2463

Sample: 2UL 660559 BN/AE Operator: STEVE MS 9/22/86 15:23
Misc : 10UL BN 392 CD 910 TB BTL#95
Sys. #: 1 MS model: 96 SW/HW rev.: CA ALS # : 0
Method file: EXTRII Tuning file: MT9301 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 220 Transfer line temp. : 280

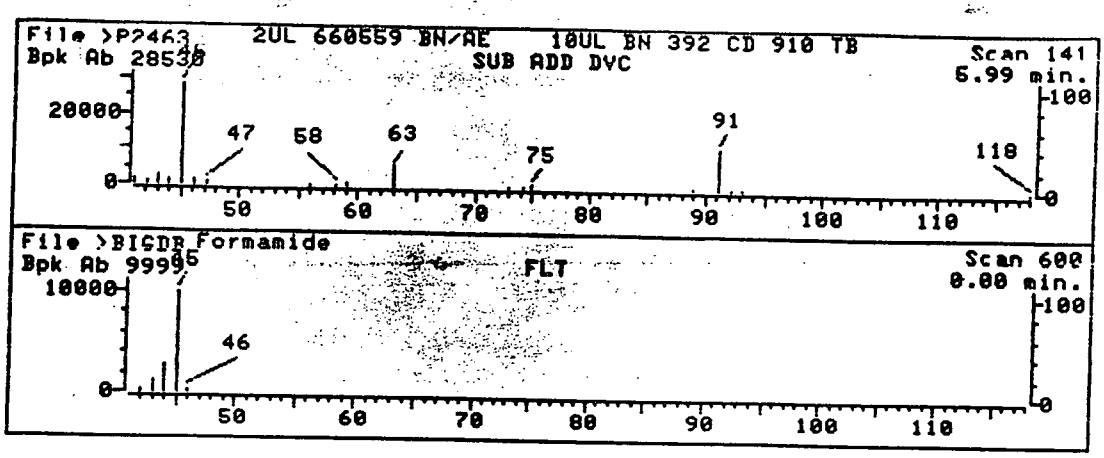
Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

>P2463 2UL 660559 BN/AE 10UL BN 392 CD 910 TB
35.0! 500.0 CLP ADC TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	5.993	139	141	143	57880	129918	129348	24.46	8.08
2	15.604	607	611	614	227063	480288	480288	90.84	30.00
3	25.561	1094	1098	1101	167865	528736	528736	100.00	33.03
4	33.698	1491	1496	1499	78018	261419	261419	49.44	16.33
5	37.727	1689	1693	1700	62635	204189	200987	38.01	12.55

Sum of corrected areas: 1600778.

4:50 PM MON., 22 SEPT, 1986



1. Formamide 45 CH3NO

Sample file: >P2463 Spectrum #: 141
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	75127	600	"BIGDB	21	30	1	0	86	48	7	14

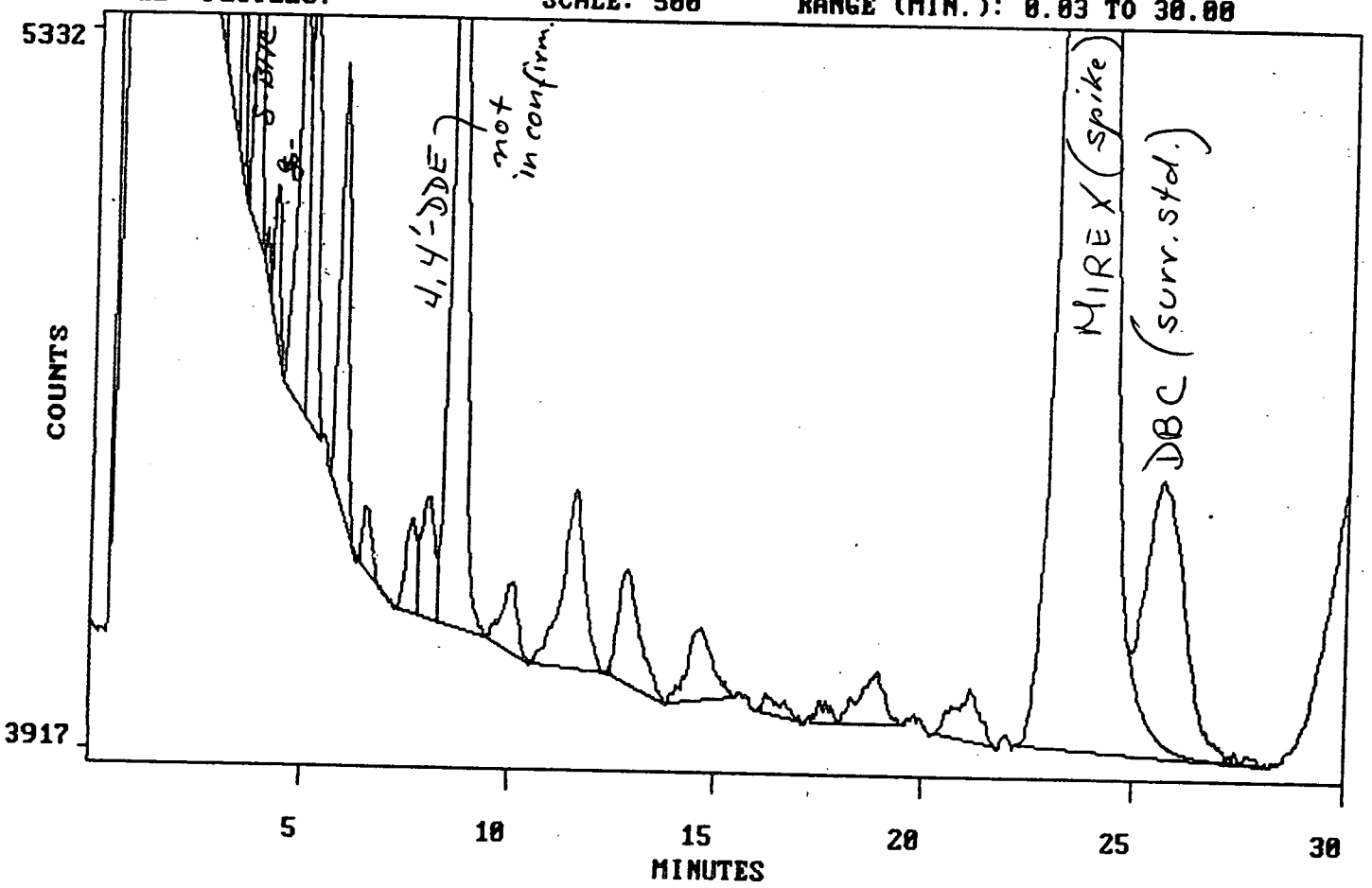
660560
CD910-TB
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:08:31 Date:WED 08 OCT 86

Time:18:28:05 Date:MON 06 OCT 86
Method:PEST2

FILE: PEST2257 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



.1%

35

Channel #.....4 Time:18:58:46 Date:MON 06 OCT 86
Run #3 of 100

Sample name.....
Data file.....DAT257:PEST2257
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....~~6~~ 1.5% OV-17 + 1.95% OV-210 on 100/120 CHROMOSORB WHP
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....18:28:05 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..30
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.557			79.277	3258106	734422	BB
2	0.925			0.152	6249	947	BV
3	1.095			0.676	27793	4243	VV
4	1.267			0.294	12067	1953	VV
5	1.392			0.638	26200	4031	VB
6	1.770			0.717	29455	3950	BV
7	2.236			4.051	166482	15483	VV
8	2.772			1.339	55040	4324	VV
9	3.067			0.719	29564	2408	VV
10	3.372			0.098	4027	598	VB
11	3.757		δ-BHC	0.303	12438	1303	BB
12	4.009			0.018	722	97	BV
13	4.249			0.070	2860	300	VB
14	4.820			0.359	14741	979	BV
15	5.080			0.345	14195	1062	VB
16	5.847			0.302	12425	856	BB
17	6.496			0.048	1958	125	BB
18	7.620			0.088	3607	186	BV
19	8.018			0.132	5437	238	VV
20	8.658	DDE	4,4'-DDE	1.148	47191	2061	VB
21	10.077			0.087	3562	137	BB

35

23	12.858	0.195	8012	220	BB
24	14.640	0.147	6048	140	BB
25	16.341	0.026	1082	33	BB
26	17.693	0.025	1038	36	BV
27	18.947	0.098	4045	94	VB
28	21.195	0.097	4004	91	BB
29	23.771	7.442	305870	4760	BE
30	25.747	0.791	32491	505	EB
TOTALS		100.000	4109781		

660560
CD910-TB

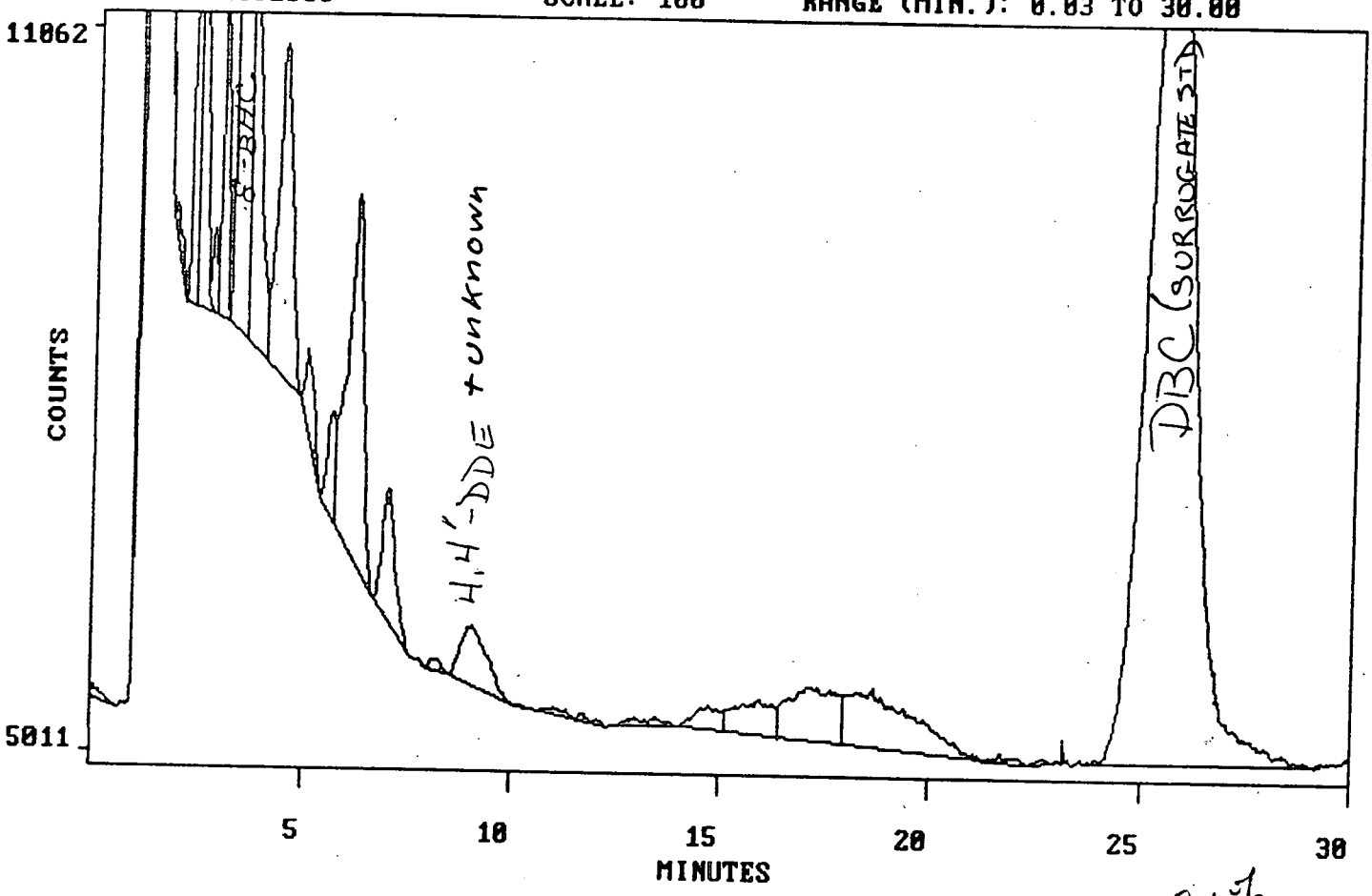
CONFIRMATORY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:20:23:53 Date:THU 09 OCT 86

Time:14:05:06 Date:THU 09 OCT 86
Method:PEST2

FILE: PEST2303 SCALE: 100 RANGE (MIN.): 0.03 TO 30.00



2.6%

355

Channel #.....4 Time:14:35:47 Date:THU 09 OCT 86
Run #11 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2303
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....SY-2 3% SP2100 on 100/120 SUPELCOPORT
Notes.....~~Primary~~ Column Runs
CONFIRMATORY

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....14:05:06 Acq. date....THU 09 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..29
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.101			0.024	1578	90	BB
2	1.100			79.553	5203824	598505	BB
3	1.357			0.292	19124	5293	BB
4	1.536			0.512	33517	4638	BB
5	1.868			0.044	2848	236	BB
6	2.340			0.582	38043	3985	BV
7	2.488			0.610	39886	4616	VE
8	2.768			0.080	5259	709	EV
9	2.990			0.415	27178	2935	VB
10	3.377		δ δ-BHC	2.630	172044	13051	BV
11	3.627			0.928	60734	4466	VV
12	4.398			0.971	63504	2779	VB
13	5.005			0.152	9974	679	BB
14	5.611			0.185	12075	895	BV
15	6.165			1.224	80087	3064	VB
16	6.980			0.370	24206	1092	BB
17	8.226			0.027	1786	105	BB
18	9.062		4,4'-DDE + unknown	0.324	21173	490	BB
19	11.090			0.043	2799	48	BB
20	13.029			0.031	2040	62	BV
21	13.536			0.025	1618	73	VB

23	15.970	CND Ketone	0.290	18953	291	VV
24	17.223		0.564	36881	455	VV
25	18.331		0.807	52810	457	VB
26	21.727		0.027	1734	59	BB
27	22.746		0.010	646	39	BB
28	25.642	DBC	9.149	598474	7796	BB
TOTALS			100.000	6541343		

III. 2. Reporting Package
NJ DEP I.D. # FB-Field Blank

H2M

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Lab No. 660562
Type: Misc. - Tier I
Point: Field Blank
Date Collected: 9/10/86
Date Received: 9/12/86
Collected By: CL 99

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Scan No.	Cas Number	Compound	ug/l
	74-87-3	Chloromethane	10U
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl chloride	10U
	75-00-3	Chloroethane	10U
128	75-09-2	Methylene chloride	10
	75-69-4	Trichlorofluoromethane	10U
	75-35-4	1,1-dichloroethene	10U
	75-34-3	1,1-dichloroethane	10U
	156-60-5	Cis/Trans-1,2-dichloroethene	10U
	67-66-3	Chloroform	10U
	107-06-2	1,2-dichloroethane	10U
332	71-55-6	1,1,1-Trichloroethane	4JB
	56-23-5	Carbon tetrachloride	10U
	75-27-4	Bromodichloromethane	10U
	79-34-5	1,1,2,2-Tetrachloroethane	10U
	70-87-5	1,2-dichloropropane	10U
	10061-02-6	Trans-1,3-dichloropropene	10U
	79-01-6	Trichloroethene	10U
	124-48-1	Dibromochloromethane	10U
	79-00-5	1,1,2-trichloroethane	10U
	71-43-2	Benzene	10U
	10061-01-5	cis-1,3-Dichloropropene	10U
	110-75-8	2-chloroethylvinyl ether	10U
	75-25-2	Bromoform	10U
	127-10-4	Tetrachloroethene	10U
	106-88-3	Toluene	10U
	106-90-7	Chlorobenzene	10U
	100-41-4	Ethylbenzene	10U
	541-73-1	1,2-Dichlorobenzene	10U
	95-50-1	1,3-Dichlorobenzene	10U
	106-46-1	1,4-Dichlorobenzene	10U

Date Reported: 10/15/86

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J.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: Field Blank

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob FIT	% Prob RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown (Carbon Dioxide)	-	-	13	33B
2.		Unknown	-	-	36	11
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H2M

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

Lab Name: H2M Labs
Concentration: Low

Sample Lab No. 660563 - FB

Date Extracted: 9/16/86 - 9/17/86
Date Analyzed: 9/22/86

Conc Factor: 1000:1

Semi-Volatile Compounds

C.A.S. Number		ug/l	C.A.S. Number		ug/l	Scan No.
65-75-9	N-Nitrosodimethylamine	10U	83-32-9	Acenaphthene	10U	
108-95-2	Phenol	10U	51-28-5	2,4-Dinitrophenol	10U	
62-53-3	Aniline	10U	100-02-7	4-Nitrophenol	10U	
111-44-4	bis(2-Chloroethyl)Ether	10U	121-14-2	2,4-Dinitrotoluene	10U	
95-57-8	2-Chlorophenol	10U	606-20-2	2,6-Dinitrotoluene	10U	
541-73-1	1,3-Dichlorobenzene	10U	84-66-2	Diethylphthalate	10U	
106-46-7	1,4-Dichlorobenzene	10U	7005-72-3	4-Chlorophenyl-phenylether	10U	
95-50-1	1,2-Dichlorobenzene	10U	86-73-7	Fluorene	10U	
39638329	bis(2-chloroisopropyl)ether	10U	534-52-1	4,6-Dinitro-2-Methylphenol	50U	
621-64-7	N-Nitroso-Di-n-Propylamine	10U	86-30-6	N-Nitrososdiphenylamine (1)	10U	
67-72-1	Hexachloroethane	10U	101-55-3	4-Bromophenyl-phenylether	10U	
98-95-3	Nitrobenzene	10U	118-74-1	Hexachlorobenzene	10U	
78-59-1	Isophorone	10U	87-86-5	Pentachlorophenol	50U	
88-75-5	2-Nitrophenol	10U	85-01-8	Phenanthrene	10U	
105-67-9	2,4-Dimethylphenol	10U	120-12-7	Anthracene	10U	
111-91-1	bis(2-Chloroethoxy)Methane	10U	84-74-2	Di-n-Butylphthalate	10U	
120-83-2	2,4-Dichlorophenol	10U	206-44-0	Fluoranthene	10U	
120-82-1	1,2,4-Trichlorobenzene	10U	92-87-5	Benzidine	80U	
91-20-3	Naphthalene	10U	129-00-0	Pyrene	10U	
87-68-3	Hexachlorobutadiene	10U	85-68-7	Butylbenzylphthalate	10U	
59-50-7	4-Chloro-3-Methylphenol	10U	91-94-1	3,3'-Dichlorobenzidine	20U	
77-47-4	Hexachlorocyclopentadiene	10U	56-55-3	Benzo(a)Anthracene	10U	
88-06-2	2,4,6-Trichlorophenol	10U	117-81-7	bis(2-Ethylhexyl)Phthalate	16	1524
91-58-7	2-Chloronaphthalene	10U	218-01-9	Chrysene	10U	
131-11-3	Dimethyl Phthalate	10U	117-84-0	Di-n-Octyl Phthalate	10U	
208-96-8	Acenaphthylene	10U	205-99-2	Benzo(b)Fluoranthene	10U	
			207-08-9	Benzo(k)Fluoranthene	10U	
			50-32-8	Benzo(a)Pyrene	10U	
			193-39-5	Indeno(1,2,3-cd)Pyrene	10U	
			53-70-3	Dibenzo(a,h)Anthracene	10U	
			191-24-2	Benzo(g,h,i)Perylene	10U	

(1) Cannot be separated from diphenylamine

Date Reported: 10/16/86

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S.C. McLendon, P.E.
Laboratory Director

NJ DEP Sample #: FB

ORGANICS ANALYSIS DATA SHEET
(Page 4)

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Prob FIT	% Prob RFIT	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown	-	-	143	10J
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JMSla

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

N.J. DEP
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 660564
Date Extracted: 9/18/86
Date Analyzed: 10/6/86
Type: Misc. - Tier I
Point: FB
Collected By: CL 99

ANALYSIS FOR PESTICIDES/PCB's

C.A.S. No.	Compound	ug/l
319-84-6	Alpha-BHC	0.05U
319-87-7	Beta-BHC	0.05U
319-86-8	Delta-BHC	0.05U
58-89-9	Gamma-BHC (Lindane)	0.05U
76-44-8	Heptachlor	0.05U
309-00-2	Aldrin	0.05U
1024-57-3	Heptachlor Epoxide	0.05U
959-98-8	Endosulfan I	0.05U
60-57-1	Dieldrin	0.10U
72-55-9	4,4'-DDE	0.10U
72-20-8	Endrin	0.10U
33213-65-9	Endosulfan II	0.10U
72-54-8	4,4'-DDD	0.10U
1031-07-8	Endosulfan Sulfate	0.10U
50-29-3	4,4'-DDT	0.10U
72-43-5	Methoxychlor	0.50U
53494-70-5	Endrin Ketone	0.10U
57-74-9	Chlordane	0.50U
8001-35-2	Toxaphene	1.0U
12674-11-2	Aroclor 1016	0.50U
11104-28-2	Aroclor 1221	0.50U
11141-16-5	Aroclor 1232	0.50U
53469-21-9	Aroclor 1242	0.50U
12672-29-6	Aroclor 1248	0.50U
11097-69-1	Aroclor 1254	1.0U
11096-82-5	Aroclor 1260	1.0U

Vi = Volume of extract injected (uL)
Ws = Weight of sample extracted (g)
Vs = 1000 mL Vt = 3 mLs
Date Reported: 10/17/86

Vs = Volume of water extracted (mL)
Vt = Volume of Total extract (mL)
Vi = 5 uL

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S.C. McLendon, P.E.
Laboratory Director

363

Lab Name : H2M LABS

ORGANICS ANALYSIS DATA SHEET

Sample Number
660564

NJDEP #CD910-FB

Tentatively Identified Compounds

	C.A.S. Number	Compound Name	% Probability Fit	% Probability Rfit	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		Unknown			2.22	0.91
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Date Reported: 10-17-86

S.C. McLendon, P.E.
Laboratory Director

36

H2M
Environmental Engineers & Scientists
HOLZMACHER, McLENDON and MURRELL, P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

WATER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

LAB NO. 660565
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.
65 PROSPECT ST.
TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 9/10/86 DATE RECEIVED - 9/12/86

NJDEP SAMPLE #CD 910-FB
NJDEP SAMPLE POINT I.D. #FIELD BLANK

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<60.0 #	SELENIUM	<5.00# N
ARSENIC	<10.0 #	SILVER	<10.0 #
BERYLLIUM	<5.00# N	THALLIUM	<10.0 # N
CADMIUM	<5.00#	ZINC	<20.0 #
CHROMIUM	<10.0 #	PHENOLS	<1.00# N
COPPER	<25.0 # N	CYANIDE	<10.0 #
LEAD	<2.00# N		
MERCURY	<0.20#		
NICKEL	<40.0 #		

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 10/ 8/86

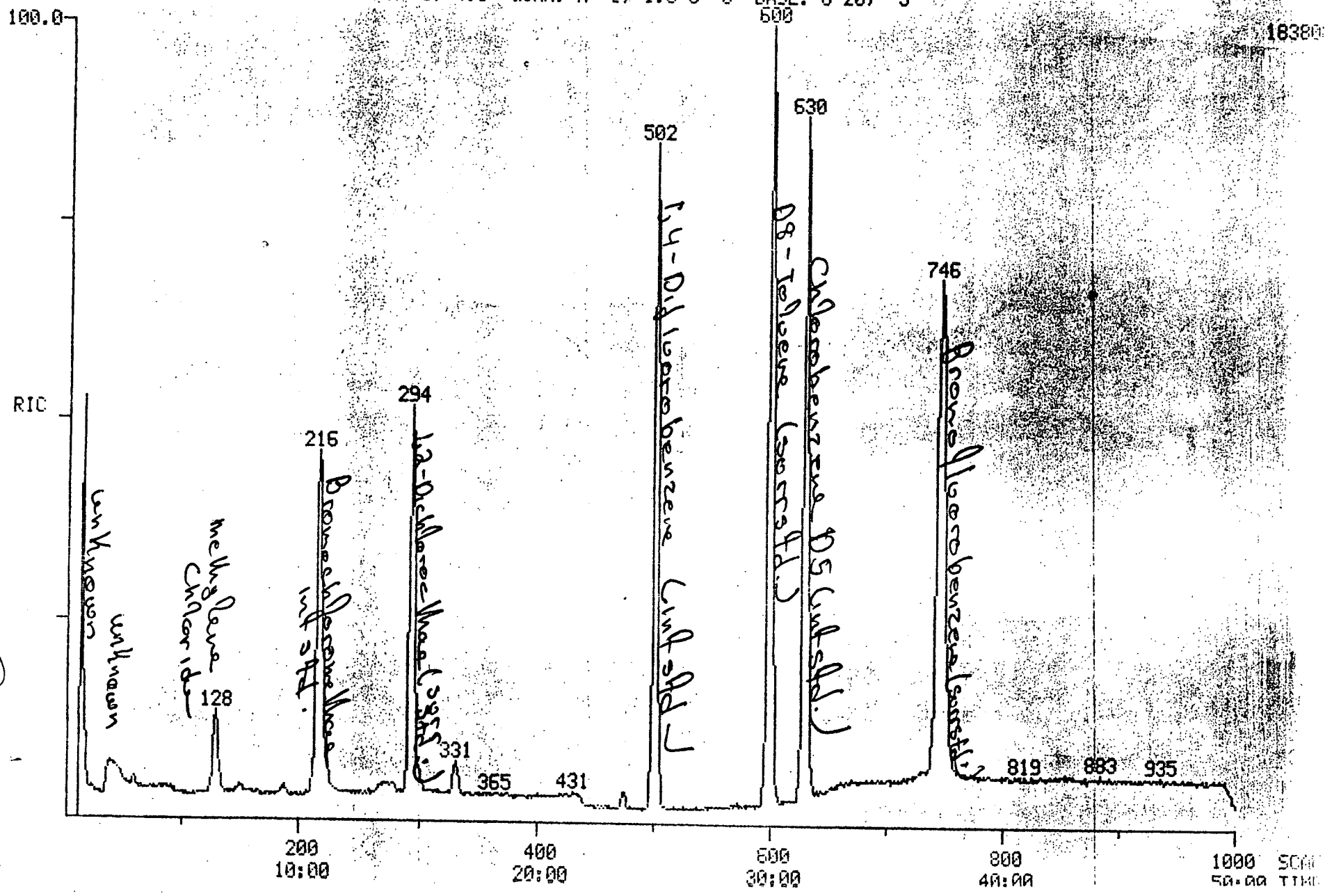
S. C. McLENDON, P.E., LABORATORY DIRECTOR

THE LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

RIC
09/24/86 13:29:00
SAMPLE: 5MLS 660562
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6396 #1
CALI: PU6396 #2

SCANS 1 TO 1000



FINISHED AT: 9/25/86 13:04:58
8 FOUND

QUANTITATION REPORT FILE: PU6396

DATA: PU6396.TI
09/24/86 13:29:00
SAMPLE: 5MLS 660562
CONDS.
SUBMITTED BY: NJDEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D8-TOLUENE(SURR. STD)
48	BROMOFLUORBENZENE(SURR. STD)

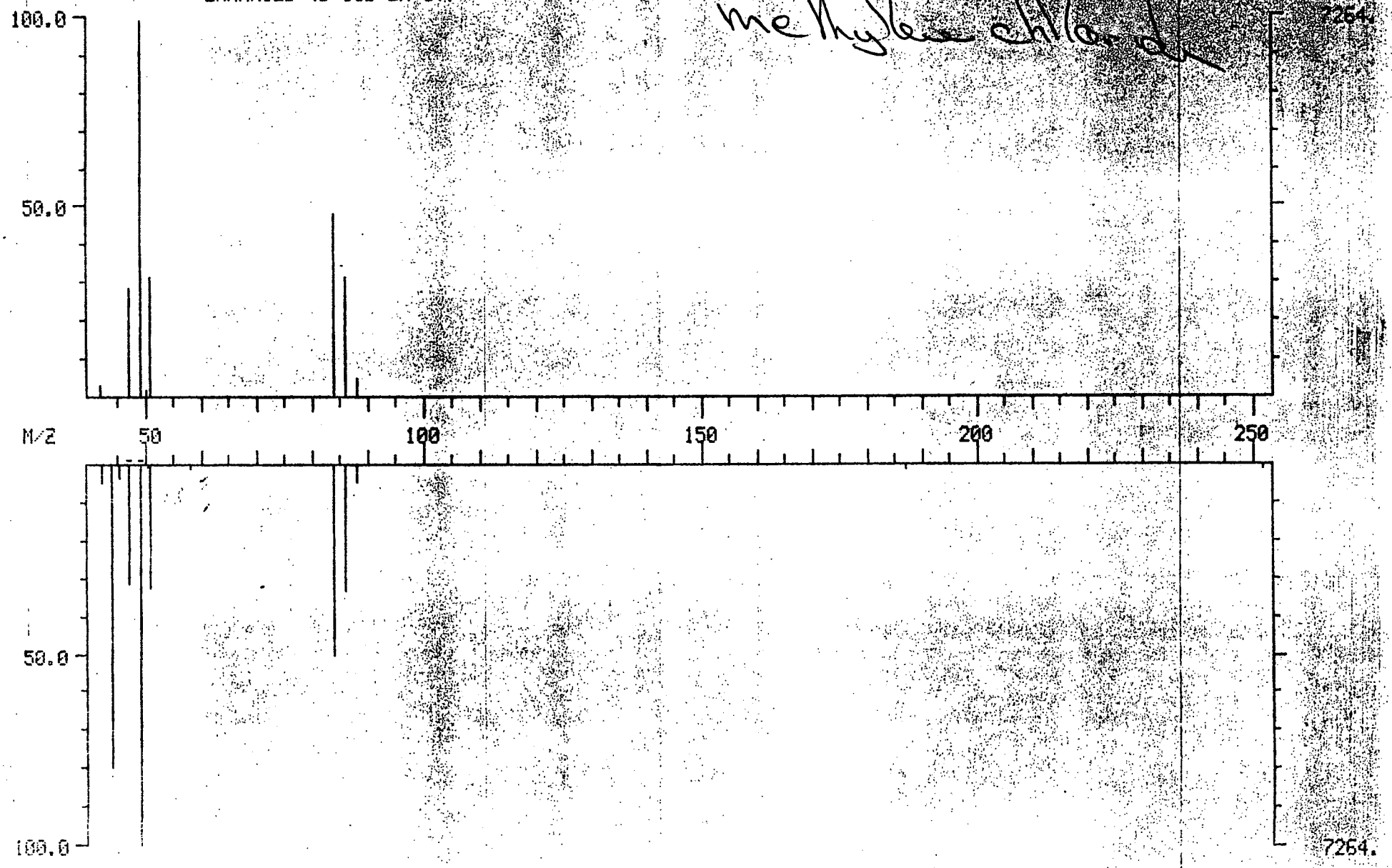
4	NOT	FOUND								
5	NOT	FOUND								
6	NOT	FOUND								
7	84	128	6:24	1	0.593	A BB	19545.	50.830	NG	2.47
8	43	150	7:30	1	0.694	A*BB	4540.	44.483	NG	2.16
9	NOT	FOUND								
10	NOT	FOUND								
11	NOT	FOUND								
12	NOT	FOUND								
13	NOT	FOUND								
14	NOT	FOUND								
15	101	187	9:21	1	0.866	A BB	5494.	10.444	NG	0.51
16	NOT	FOUND								
17	NOT	FOUND								
18	NOT	FOUND								
19	114	502	25:06	19	1.000	A BB	285513.	250.000	NG	12.12
20	43	303	15:09	19	0.604	A BB	7631.	93.910	NG	4.55
21	97	332	16:36	19	0.661	A BB	7731.	18.435	NG	0.89
22	NOT	FOUND								
23	NOT	FOUND								
24	NOT	FOUND								
25	NOT	FOUND								
26	NOT	FOUND								
27	NOT	FOUND								
28	NOT	FOUND								
29	78	435	21:45	19	0.867	A BB	214.	0.138	NG	0.01
30	NOT	FOUND								
31	NOT	FOUND								
32	NOT	FOUND								
33	117	630	31:30	33	1.000	A BB	221166.	250.000	NG	12.12
34	43	522	26:06	33	0.829	A BB	296.	205.726	NG	9.98
35	43	562	28:06	33	0.892	A*BB	1799.	376.649	NG	18.27
36	NOT	FOUND								
37	NOT	FOUND								
38	92	605	30:15	33	0.960	A BB	892.	1.126	NG	0.05
39	NOT	FOUND								
40	NOT	FOUND								
41	NOT	FOUND								
42	NOT	FOUND								
43	NOT	FOUND								
44	NOT	FOUND								
45	NOT	FOUND								
46	NOT	FOUND								
47	100	599	29:57	33	0.951	A BB	202543.	239.881	NG	11.63
48	95	746	37:18	33	1.184	A BB	191927.	241.428	NG	11.71

DUAL MASS SPECTRUM
09/24/86 13:29:00 + 6:24
SAMPLE: SMLS 660562
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6396 #128
CALI: PU6396 #2

BASE M/Z: 49/ 49
RIC: 18015./ 24893.

methylene chloride



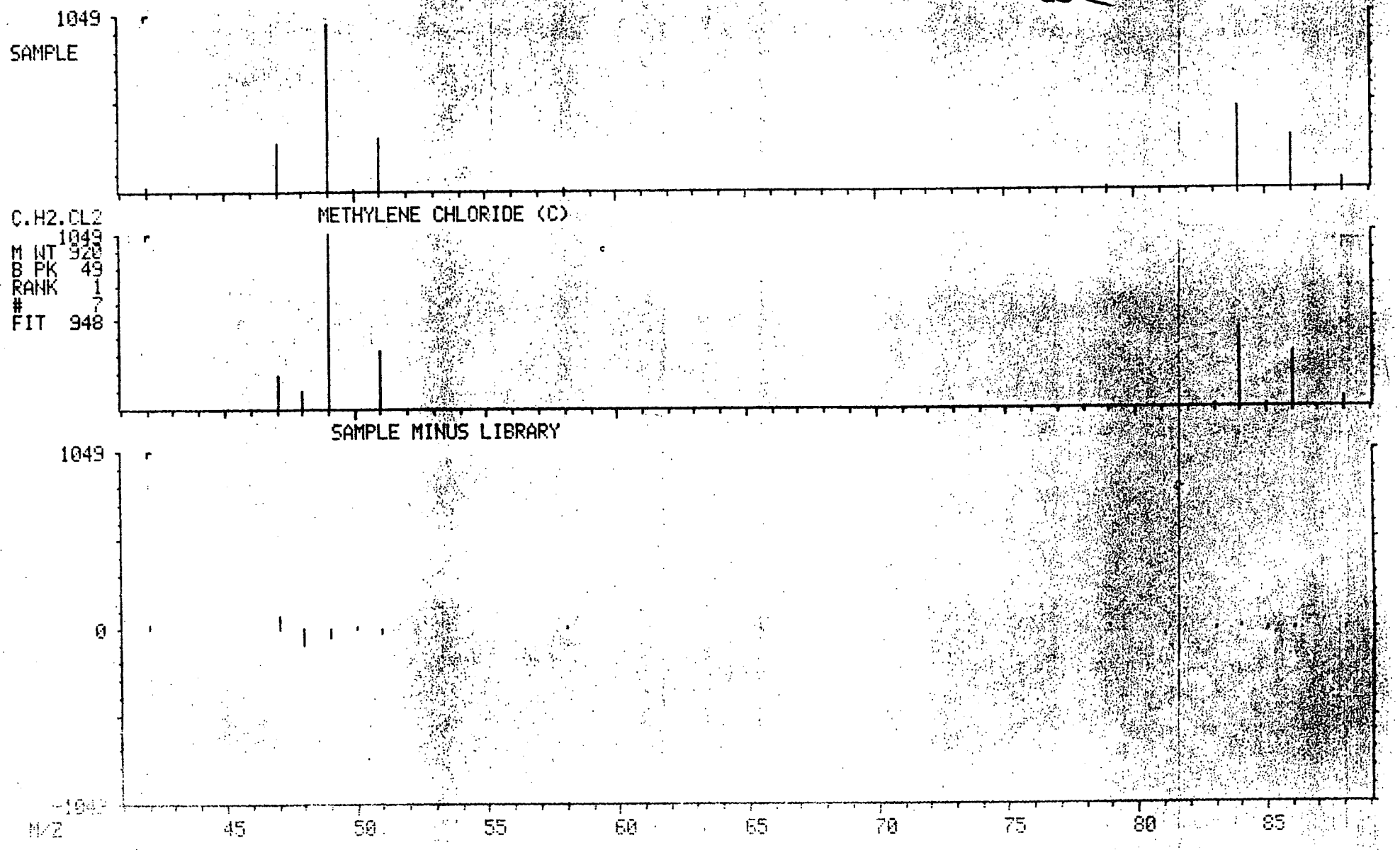
360

LIBRARY SEARCH
09/24/86 13:29:00 + 6:24
SAMPLE: SMLS 660562
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6396 # 128
CALI: PU6396 # 2

BASE M/Z: 49
RIC: 18015.

Methylene chloride



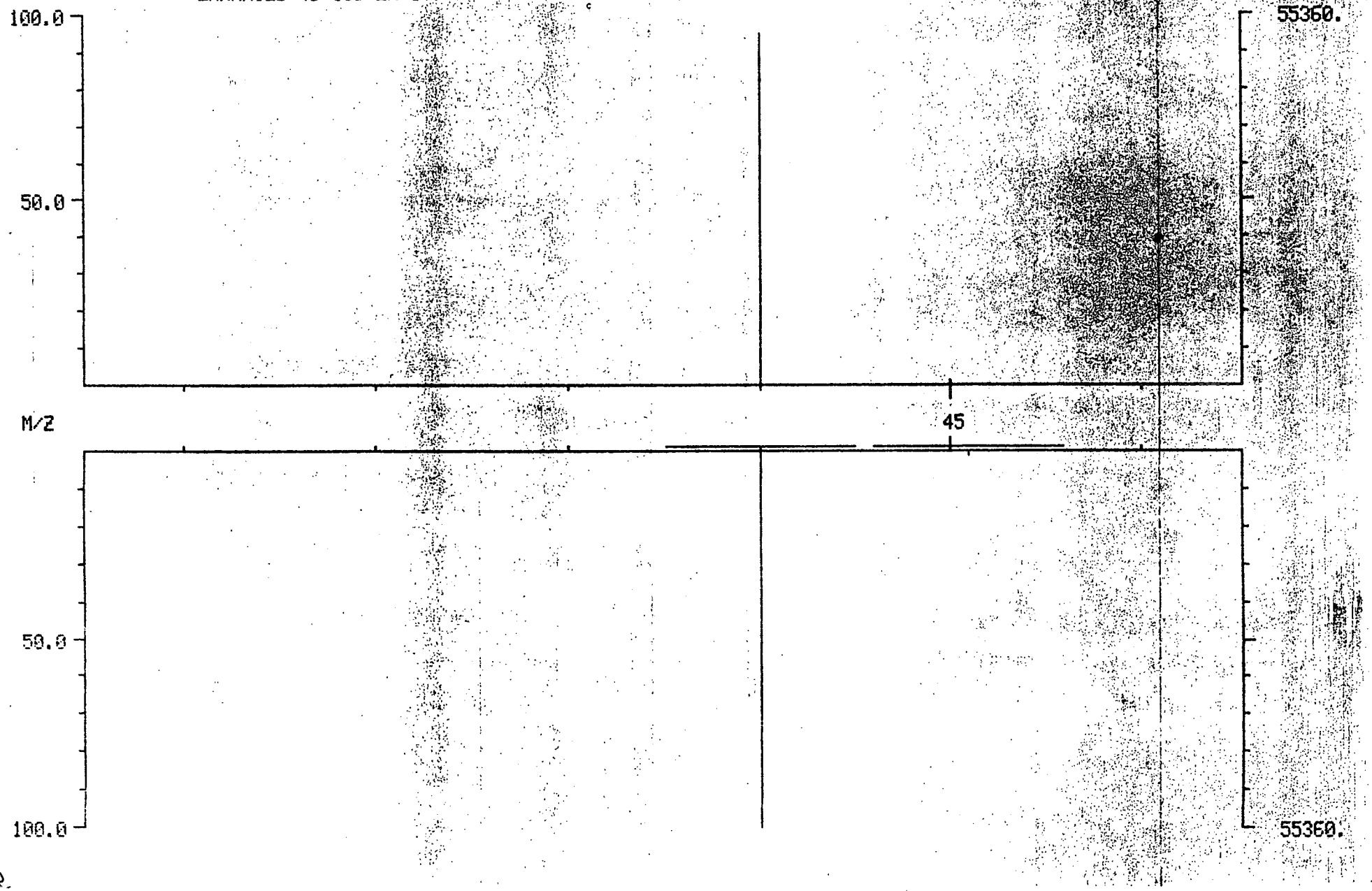
37

DUAL MASS SPECTRUM
09/24/86 13:29:00 + 0:39
SAMPLE: SMLS 660562
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6396 #13
CALI: PU6396 #2

BASE M/Z: 44/ 44
RIC: 53119./ 55935.

Unknown

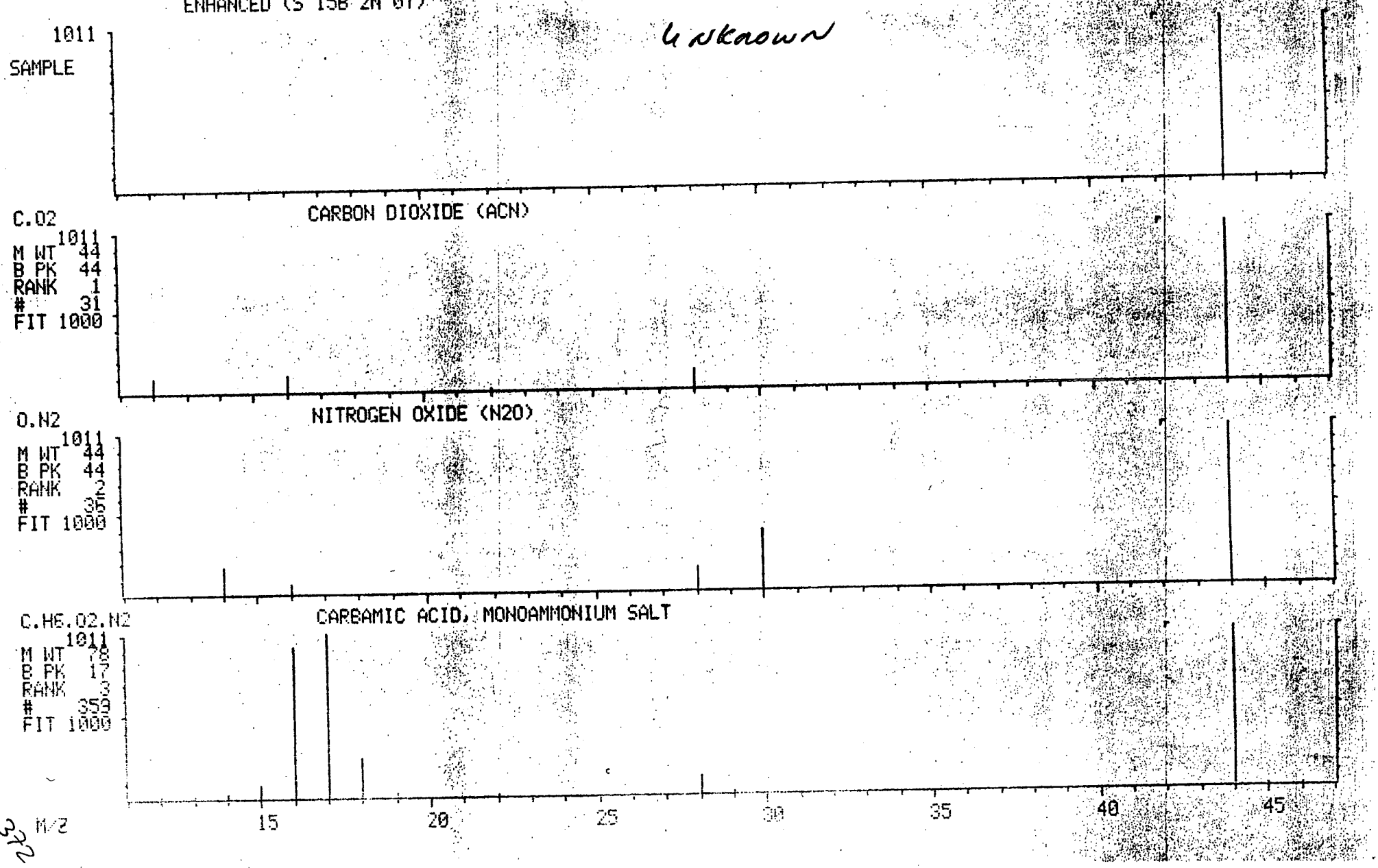


37

LIBRARY SEARCH
09/24/86 13:29:00 + 0:39
SAMPLE: SMLS 660562
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6396 # 13
CALI: PU6396 # 2

BASE M/Z: 44
RIC: 53055.



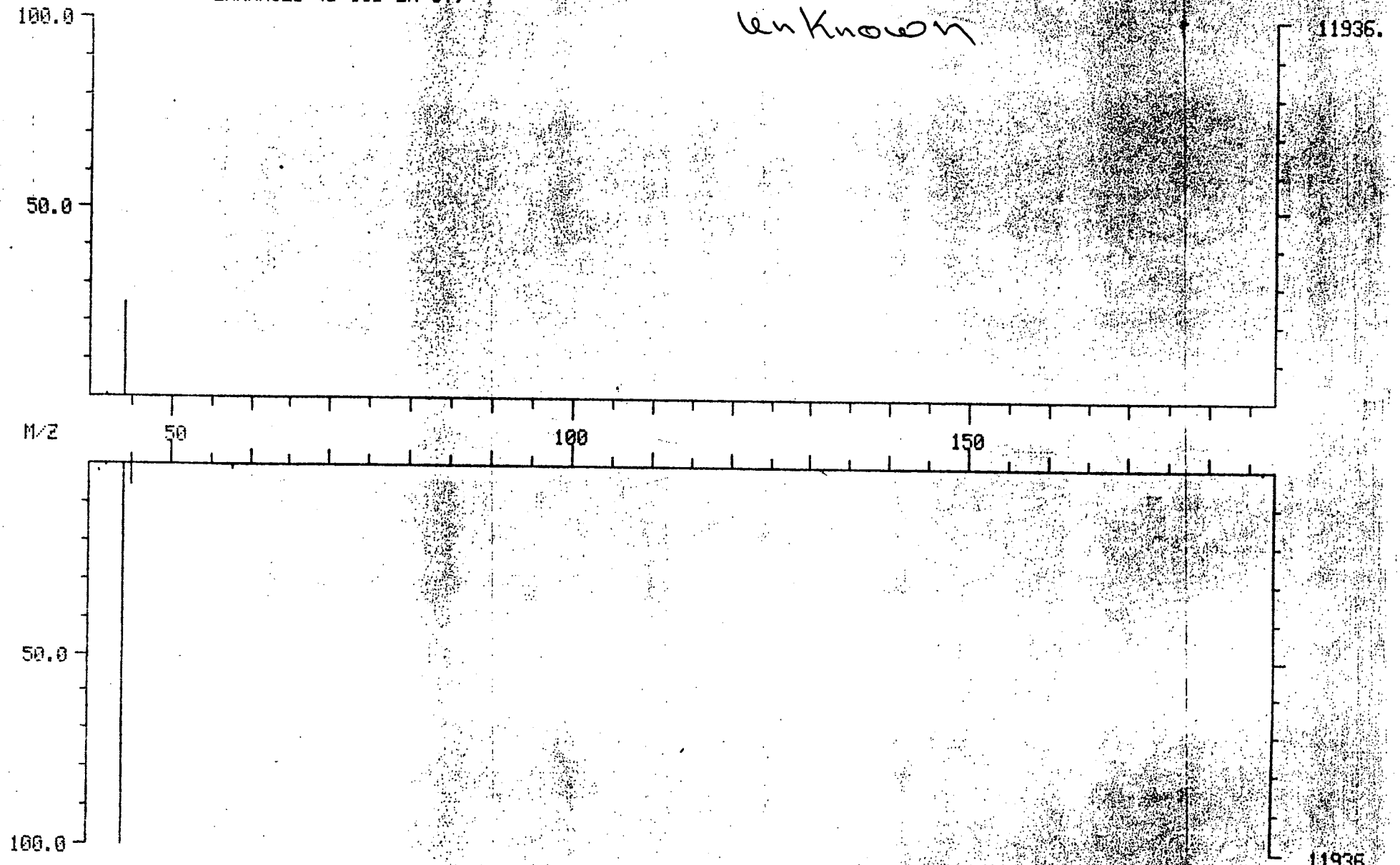
372

DUAL MASS SPECTRUM
09/24/86 13:29:00 + 1:48
SAMPLE: 5MLS 660562
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6396 #36
CALI: PU6396 #2

BASE M/Z: 44/ 44
RIC: 3051/ 12815

Unknown



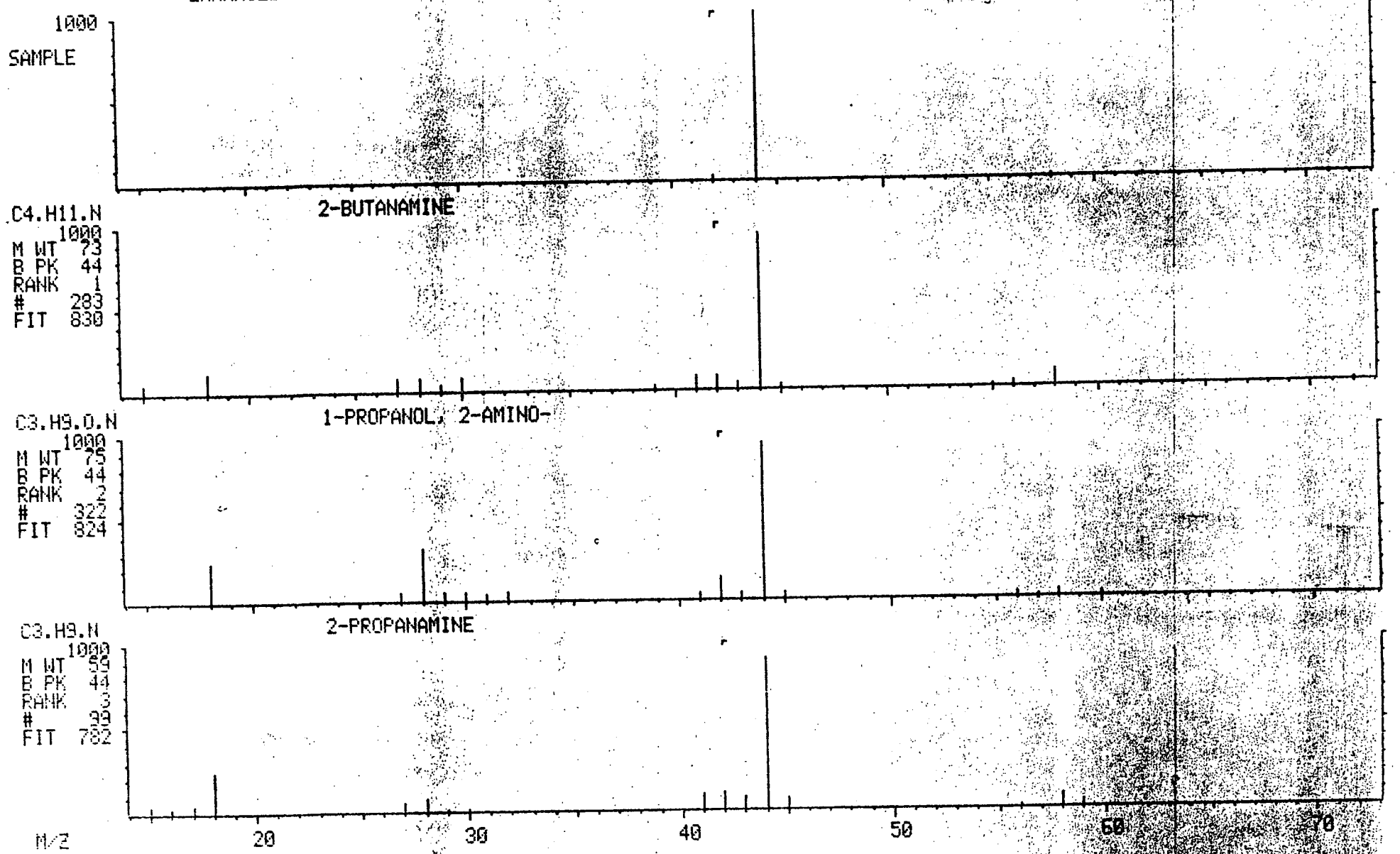
372

LIBRARY SEARCH
09/24/86 13:29:00 + 1:48
SAMPLE: SMLS 660562
CONDS.:
ENHANCED (S 15B 2N 0T)

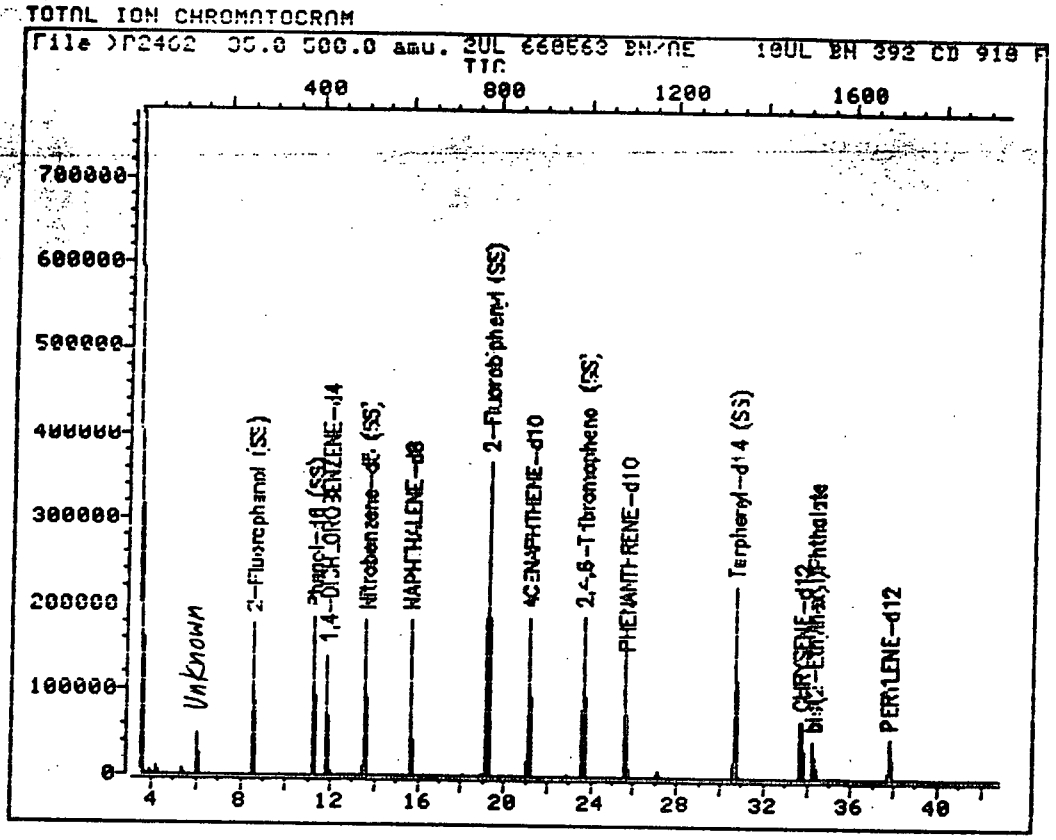
DATA: FU6396 # 36
CALI: FU6396 # 2

BASE M/Z: 44
RIC: 3051.

unknown



TOTAL ION CHROMATOGRAM



Data File: >P2462::D1
Name: 2UL 660563 BN/AE
Misc: 10UL BN 392 CD 910 FB

BTL#94

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860922 14:19

Operator ID: STEVE
Quant Time: 860922 15:16
Injected at: 860922 14:31

37E

QUANT REPORT

Operator ID: STEVE Quant Rev: 4 Quant Time: 860922 15:16
Output File: ^P2462::OP Injected at: 860922 14:31
Data File: >P2462::D1 Dilution Factor: 1.00
Name: 2UL 660563 BN/AE
Misc: 10UL BN 392 CD 910 FB BTL#94

ID File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860922 14:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.85	428	49758	40.00	NG	98
3)	2-Fluorophenol (SS)	8.49	264	124560	79.95	NG	95
7)	Phenol-d6 (SS)	11.19	396	145691	71.91	NG	81
15)	*NAPHTHALENE-d8	15.61	612	185336	40.00	NG	47
16)	Nitrobenzene-d5 (SS)	13.54	511	161360	74.42	NG	89
27)	*ACENAPHTHENE-d10	21.13	882	93758	40.00	NG	95
31)	2-Fluorobiphenyl (SS)	19.14	785	301113	70.38	NG	99
42)	2,4,6-Tribromophenol (SS)	23.56	1001	61120	87.35	NG	90
43)	*PHENANTHRENE-d10	25.56	1099	164113	40.00	NG	51
54)	*CHRYSENE-d12	33.68	1496	92880	40.00	NG	46
55)	Terphenyl-d14 (SS)	30.64	1347	210017	111.04	NG	37
61)	bis(2-Ethylhexyl)Phthalate	34.25	1524	30967	15.92	NG	86
63)	*PERYLENE-d12	37.73	1694	69454	40.00	NG	79

* Compound is ISTD

MS data file header from : >P2462

Sample: 2UL 660563 BN/AE Operator: STEVE MS 9/22/86 14:31
Misc : 10UL BN 392 CD 910 FB BTL#94
Sys. #: 1 MS model: 96 SW/HW rev.: CA ALS # : 0
Method file: EXTRII Tuning file: MT9301 No. of extra records: 1
Source temp.: 200 Analyzer temp.: 220 Transfer line temp. : 280

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	0.0	0.0

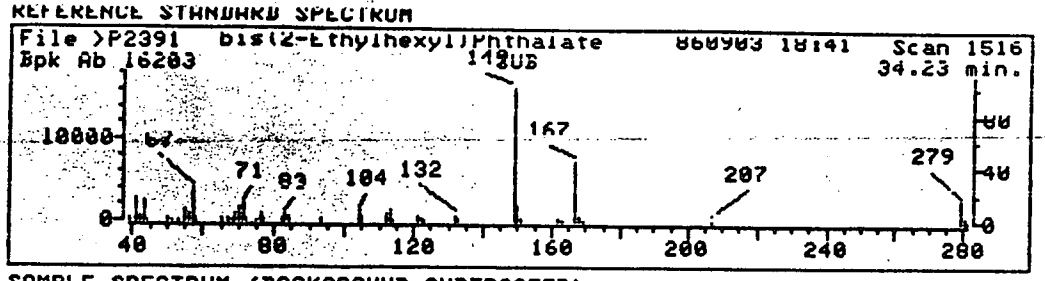
>P2462 2UL 660563 BN/AE 10UL BN 392 CD 910 FB
35.01 500.0 CLP ADC TIC

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	6.017	141	143	145	49864	107060	107060	24.52	7.99
2	15.607	609	612	615	182501	408571	408571	93.59	30.50
3	25.585	1096	1100	1103	148150	437165	436572	100.00	32.59
4	33.682	1493	1496	1500	67853	223241	223241	51.13	16.66
5	37.731	1690	1694	1702	46649	168100	163959	37.56	12.24

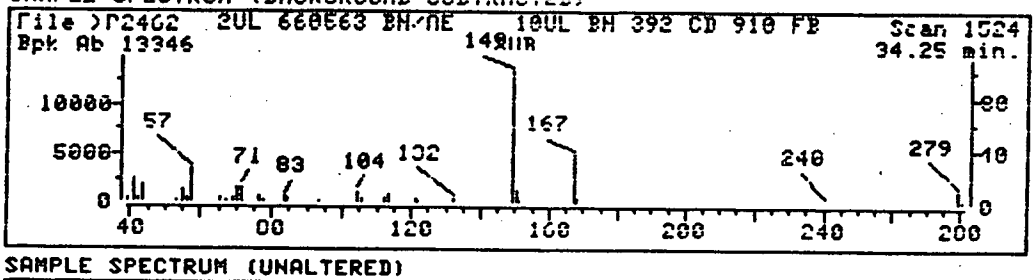
Sum of corrected areas: 1339403.

3:34 PM MON., 22 SEPT, 1986

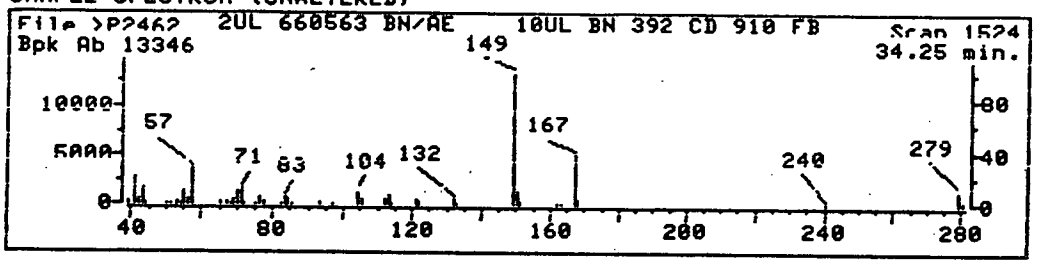
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



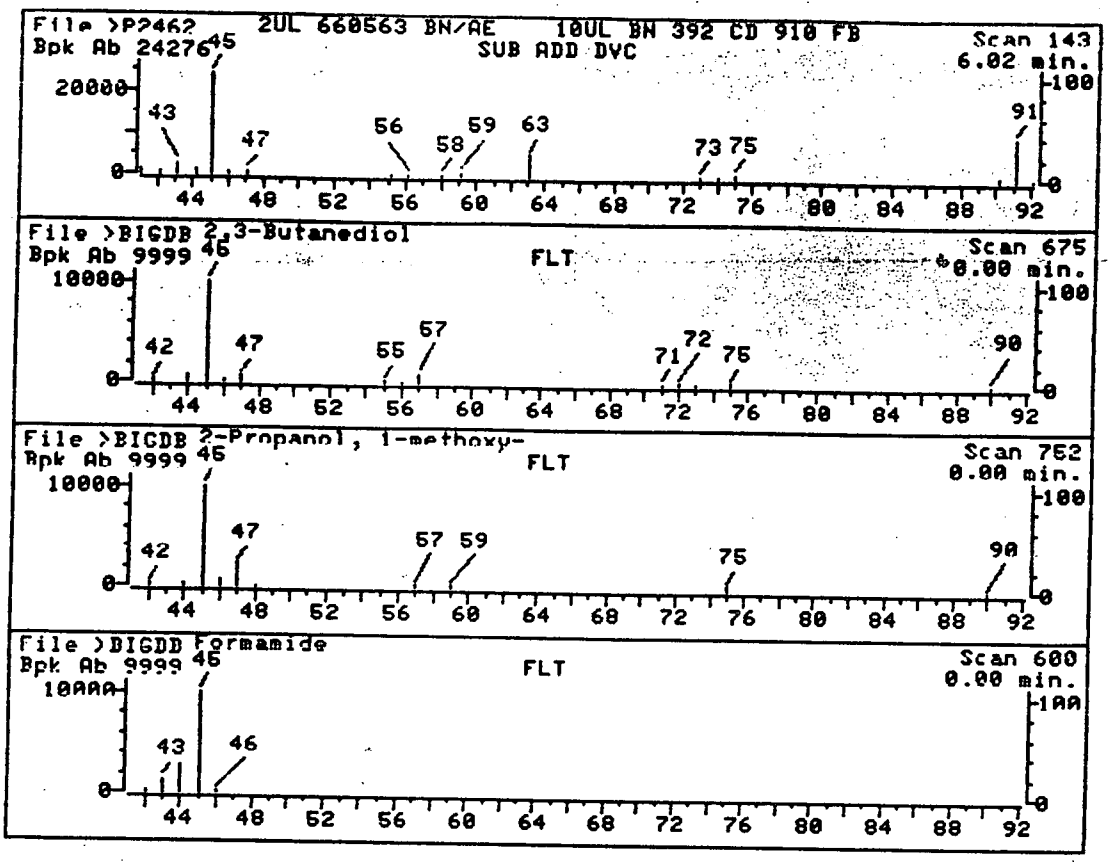
SAMPLE SPECTRUM (UNALTERED)



Data File: >P2462::D1
Name: 2UL 660563 BN/AE
Misc: 10UL BN 392 CD 910 FB
Quant Time: 860922 15:16
Injected at: 860922 14:31

BTL#94

Compound No: 61
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1524
Retention Time: 34.25 min.
Area: 30967
Concentration: 15.92 NG
q-value: 86



1. 2,3-Butanediol 90 C4H10O2

Sample file: >P2462 Spectrum #: 143
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	28*	513859	675	"BIGDB	26	49	2	0	100	40	10	14

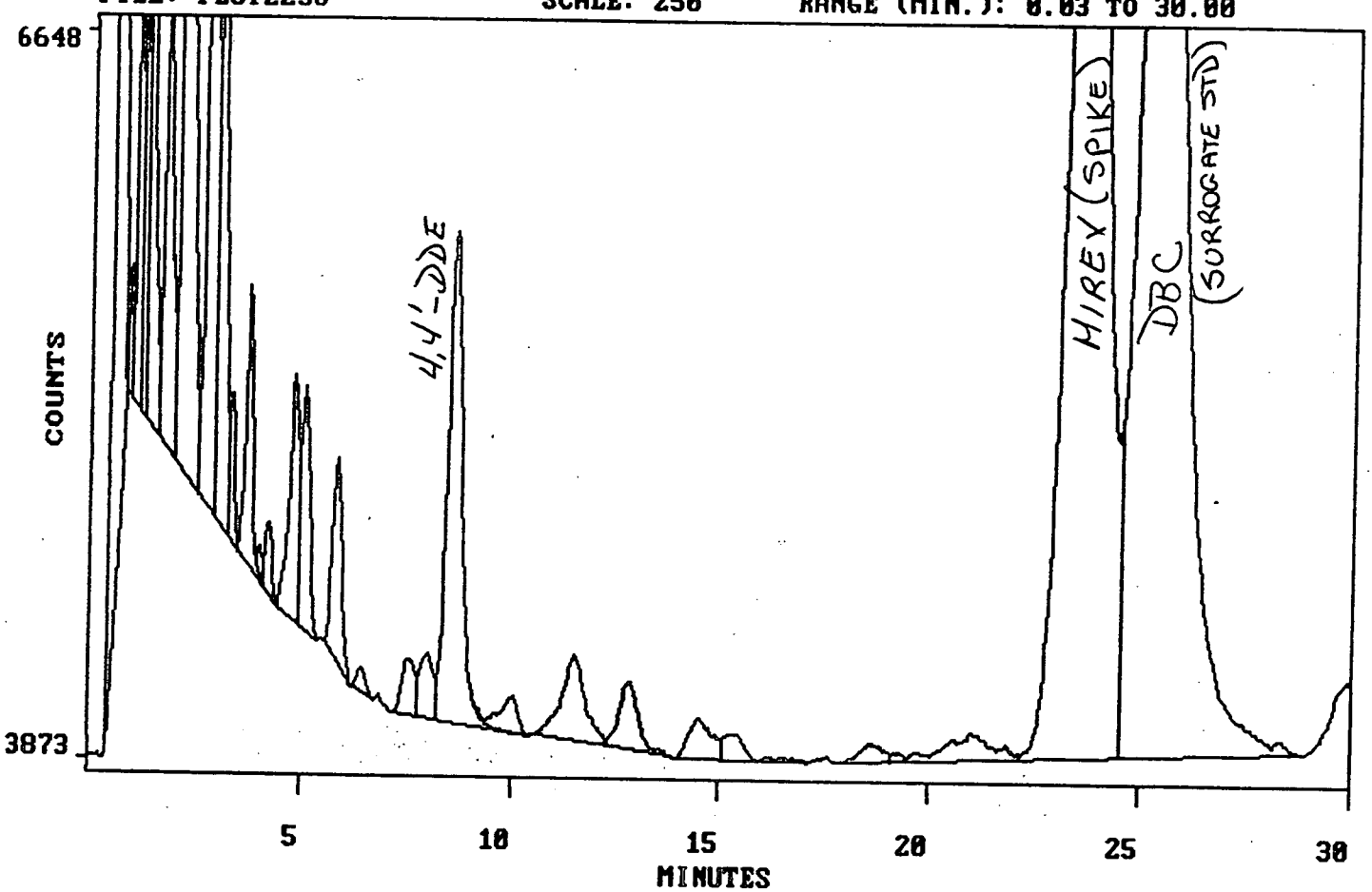
660564
CD-910-FB
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:11:03 Date:WED 08 OCT 86

Time:19:04:57 Date:MON 06 OCT 86
Method:PEST2

FILE: PEST2258 SCALE: 250 RANGE (MIN.): 0.03 TO 30.00



1.3

38

Channel #.....4 Time:19:35:30 Date:MON 06 OCT 86
Run #4 of 100

Sample name.....
Data file.....DAT257:PEST2258
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....1.5% OV-17 + 1.95% OV-210 on 100/120 CHROMOSORB WHP
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....19:04:57 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..30
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Conc	Area %	Area	Peak Ht.	BL
1	0.555				73.042	3128940	737534	BB
2	0.936				0.096	4099	507	BV
3	1.080				0.516	22098	3100	VV
4	1.260				0.225	9639	1712	VV
5	1.374				0.583	24953	3091	VV
6	1.760				0.720	30827	3436	VV
7	2.223				3.531	151274	12736	VV
8	2.766				1.195	51181	3647	VV
9	3.052				0.690	29565	2253	VV
10	3.351				0.098	4188	581	VV
11	3.740				0.264	11302	1077	VE
12	3.996				0.026	1093	112	EV
13	4.229				0.065	2804	275	VB
14	4.798				0.325	13907	933	BV
15	5.053				0.298	12749	935	VB
16	5.828				0.264	11322	764	BB
17	6.426				0.030	1268	93	BB
18	7.568				0.109	4664	210	BV
19	8.004				0.126	5413	238	VV
20	8.620				1.054	45165	1854	VE

$\frac{45165}{\frac{207.7}{5000}} = 0.134$

23	12.848 DDD	0.194	8311 DDD	252	VB
24	14.546	0.137	5861	145	BV
25	15.321	0.075	3212	95	VB
26	16.267	0.020	876	18	BB
27	18.690	0.065	2775	69	BV
28	21.127	0.565	24211	95	VV
29	23.698	7.180	307557	4814	VV
30	25.448	8.110	347421	4670	VB
TOTALS		100.000	4283749		

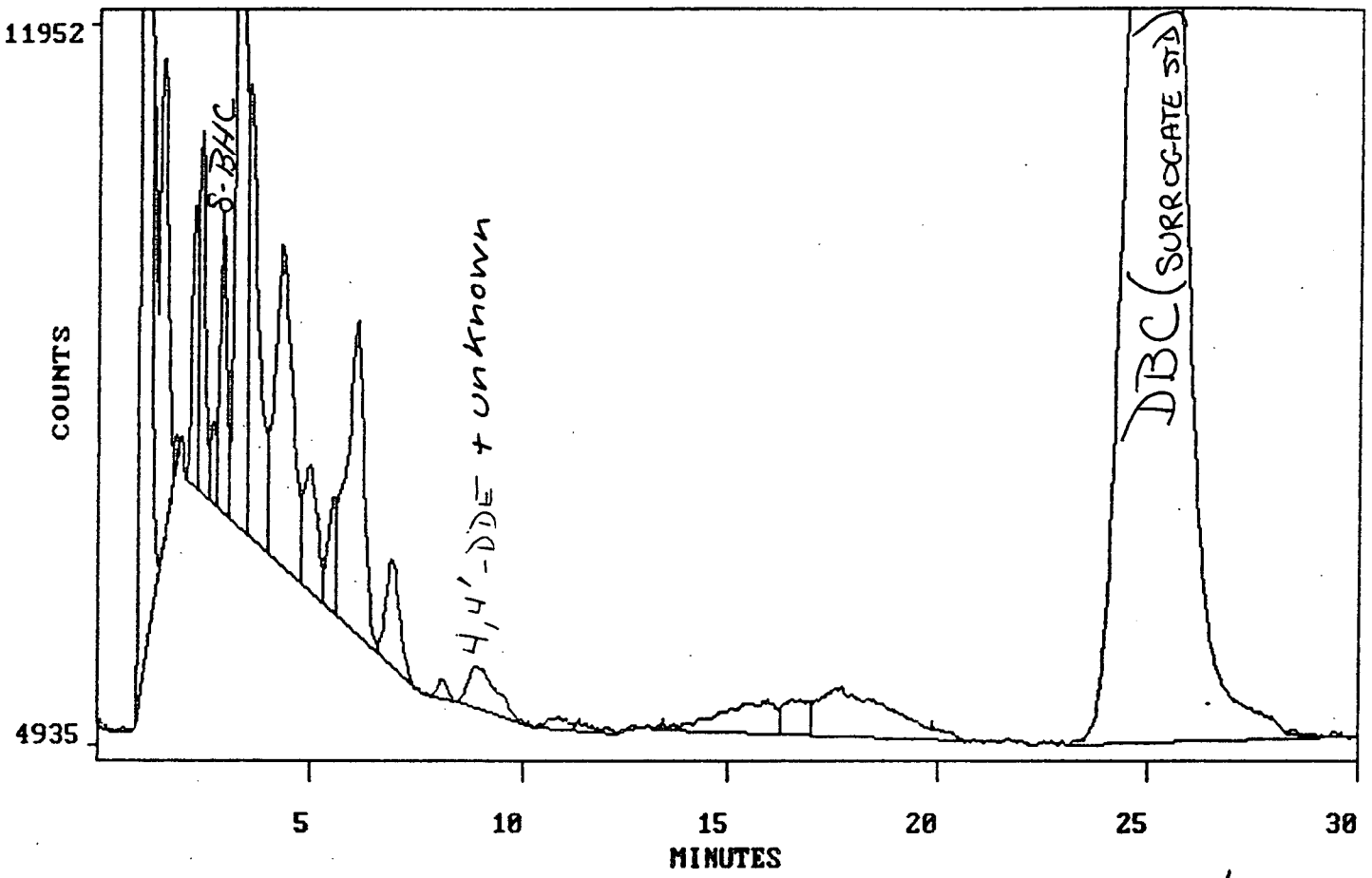
660564 CONFIRMATORY
CD910-FB COLUMN

Time:20:02:05 Date:THU 09 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:14:36:26 Date:THU 09 OCT 86
Method:PEST2

FILE: 1:PEST2304 SCALE: 100 RANGE (MIN.): 0.03 TO 30.00



4.3%

Channel #.....4 Time:15:07:05 Date:THU 09 OCT 86
Run #12 of 100

Sample name.....NJDEP
Data file.....DAT258:PES12304
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column..... II 7-2 3% SP2100 on 100/120 SUPELCOPORT
Notes.....~~Primary~~ Column Runs
CONFIRMATORY

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....14:36:26 Acq. date....THU 09 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..27
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.105			0.008	674	79	BB
2	1.093			74.908	6022423	703760	BE
3	1.552			1.046	84109	4803	EV
4	1.861			0.035	2820	290	EB
5	2.318			0.324	26075	2741	BV
6	2.463			0.402	32312	3492	VV
7	2.735			0.081	6547	796	VV
8	2.959			0.393	31620	2897	VV
9	3.342		δ	1.881	151204	10914	VV
10	3.591			0.855	68702	4385	VV
11	4.347			1.099	88382	3108	VV
12	4.996			0.333	26733	1238	VV
13	5.548			0.201	16187	1144	VV
14	6.094			1.051	84533	3044	VV
15	6.936		EPOX	0.290	23338	1023	VB
16	8.124			0.036	2856	186	BB
17	8.942		DDE + unknown	0.237	19050	407	BB
18	10.837			0.045	3651	103	BV
19	11.356			0.031	2488	88	VB
20	12.692			0.011	846	36	BB

23	16.640	0.173	13889	333	VV
24	17.696	0.695	55876	462	VB
25	25.184	15.487	1245099	14900	BE
26	29.580	0.013	1064	37	EB
TOTALS		100.000	8039811		

Digestion Methods.

ICP/ Flame AA digestion according to NYS DEC Contract Lab Protocol.

100 ml of a well mixed and acid preserved sample is placed in a 250 ml Griffin beaker with 2 ml of (1+1) HNO_3 and 10 ml of (1+1) HCl. The sample is covered and heated (and not boiled) on a hot plate until the volume is reduced to between 25 and 50 ml. The sample is the cooled, filtered (if necessary), and the volume is adjusted to 100 ml. After mixing the sample is ready for analysis.

Furnace AA digestion according to NYS DEC Contract Lab Protocol.

1 ml of (1+1) HNO_3 and 2 ml of 30% H_2O_2 is added to a 100 ml of a well mixed sample in a 250 ml Griffin beaker. The sample is covered and heated at 95°C (avoiding boiling) for 2 hours or until the volume is reduced to between 25 and 50 ml. The sample is then cooled, filtered (if necessary), and the volume is adjusted to 100 ml with distilled, deionized water. After mixing the sample is ready for analysis.

Concentrations of Spiked Metals in Liquid Samples

These are the concentrations of metals spiked into sample digestions according to the instructions on the preceeding pages. All concentrations are in µg/L (ppb).

Flame Digestion Spikes

Al 2,000; Ba 2,000; Be 50; Cd 50; Ca 100,000; Cr 200; Co 500; Cu 250; Fe 1,000; Pb 500; Mg 50,000; Mn 200; Ni 400; K 50,000; Ag 50; Na 100,000; Sn 200 (furnace AA), 400 (flame AA); V 500; Zn 200; Sb 50 (furnace AA)*

* If 2.0 ml of solution #3 is used for an adequate flame spike for Sn, the Sb concentration will be 100 µg/L.

Furnace Digestion Spikes

As 20; Cd 5; Pb 20; Se 10; Tl 50.

Spiking Solutions

Solution #3

Use 1.0 ml* per 100 ml of liquid sample to be spiked for Furnace AA / Flame digestion. Make up using 1,000 ppm standards.

~~Sb~~ To make up 100 ml of solution #3 in 1% HCl use

Sb 0.5 ml

Sn 2.0 ml Dilute to 100 ml with 1% HCl.

*If Sn is to be read on Flame AA use 2 ml of solution #3 per 100 ml of sample.

To spike the alkali + alkaline earth metals (groups IA + IIA) add ~~use~~ the following volumes of 1,000 ppm standards directly to 100 ml of a liquid sample for Flame AA / Flame digestion.

Na 10 ml

K 5 ml

Ca 10 ml

Mg 5 ml

Spiking Solutions

Solution #1

Use ~~5.0 ml~~ 5.0 ml per 100ml of liquid sample to be spiked for Flame AA/Flame digestion

Make up using 1,000 ppm standards.

To make 100 ml of sol'n #1 in 1% HNO_3 use:

Al	4.0ml	Cr	0.4ml
Ba	4.0ml	Co	1.0ml
Be	0.1 ml	Cu	0.5 ml
Cd	0.1ml	Fe	2.0ml
Pb	~~1ml~~ 1.0ml	Mn	0.4 ml
Ni	0.8ml	Ag	0.1 ml
V	~~1ml~~ 1.0ml	Zn	0.4 ml

dilute to 100ml with 1% HNO_3

Solution #2

Use 0.5 ml per 100 ml of liquid sample to be spiked for Furnace AA/ Furnace digestion. Make up using 1,000 ppm standards

To make 100ml of sol'n #2 in 1% HNO_3 use:

As	0.4 ml
Cd	0.1 ml
Pb	0.4ml
Se	0.2 ml
Tl	1.0 ml

dilute to 100ml with 1% HNO_3

DATE	ANALYST	SAMPLE #	DIGESTION TYPE	INITIAL MASS	INITIAL VOLUME	DILUTION VOLUME (FINAL VOLUME)	SPIKE	REMARK
9/23/86	US	Sed1 660533	Flame/ICP	1.0g		200		
9/23/86	US	Sed1 660533	FURN	1.0g		200		
9/23/86	US	BLANK	Flame	100		200		
9/23/86	US	Blank	FURN	100		200		
9/23/86	US	660537 Sed2	Flame/ICP	1.0g		200		
9/23/86	US	Sed2 660537	FUR	1.0g		200		
9/23/86	US	Soil 1 660541	Flame/ICP	1.0g		200		
9/23/86	US	Soil 1 660541	FUR	1.0g		200		
9/23/86	US	Soil 1 660541	Flame/ICP	1.0g		200	deplicate	
9/23/86	US	Soil 1 660541	FUR	1.0g		200	deplicate	
9/23/86	US	Soil 1 660541	ICP/Flame	1.0g		200	YES	
9/23/86	US	Soil 1 660541	FUR	1.0g		200	YES	
9/23/86	US	Soil 2 660545	Flame/ICP	1.0		200		
9/23/86	US	Soil 2 660545	FUR	1.0		200		
9/23/86	US	background Soil 3 650549	Flame/ICP	1.0		200		Background
9/23/86	US	background soil 3 650549	FUR	1.0		200		
9/23/86	US	SW-1 650553	Flame/ICP	100		100		
9/23/86	US	SW-1 650553	FUR	100		100		
9/23/86	US	SW-2 SW2Q 650557	Flame/ICP	100		100		
9/23/86	US	SW-2 SW-2Q 650557	FUR	100		100		
9/23/86	US	SW-2 SW-2Q 650557	ICP/Flame	100		100	deplicate	
9/23/86	US	SW-2 SW-2Q 650557	FUR	100		100	deplicate	
9/23/86	US	SW-2 SW-2Q 650557	Flame/ICP	100		100	YES	
9/23/86	US	SW-2 SW-2Q 650557	FUR	100		100	YES	
9/23/86	US	Trip Blank 650561	Flame/ICP	100		100		
9/23/86	US	Trip Blank 650561	FUR	100		100		
9/23/86	US	Field Blank 650565	Flame	100		100		
9/23/86	US	Field Blank 650565	FUR	100		100		

CALCULATIONS SOIL

9-30-86
JMH

DILUTION FACTOR =

$$\frac{.2\,l}{.001\,kg} \div \%TS \times \frac{mg}{l}\ \text{result} = \frac{mg}{kg}\ \text{dry wt.}$$

660 533	200 ÷	.56	=	357
537	200 ÷	.70	=	286
541	200 ÷	.59	=	339
545	200 ÷	.93	=	215
549	200 ÷	.90	=	222

All raw data for these # samples is before this calculation. Except Hg -

DATE 10/3/86

TEST CODE Se

ANALYST [illegible]

LAB NO.	RESULT
660533	< 3.6 mg/Kgm
537	< 1.4 mg/Kgm
541	4.1 mg/Kgm
545	1.7 mg/Kgm
549	~~1.7 mg/Kgm~~ < 0.2 mg/Kgm
553	< 5*
557	< 5*
561	< 5*
565	< 5*

Tray No. 1 Test Se Pg No. ___ Date 10/[illegible]/00

Analyst [illegible]

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	Blank				
2	2*				
3	6				
4	10				
5	20				
6	40				
7	50				
8	70				
9	Calblank	<5			
10	EMSL WP 386	24.5	[illegible]	TV = 25	98% rec.
11	Digblank	<5			
12	b60533	20.3	RPD 3.4% ±5		.0203 CD910 SED1
13	dup533	21.0			.021
14	+10533	3.0		30% rec.	.024 - .021 = .003
15	537	<5	RPD NC		CD 910 SED2
16	dup537	<5			
17	+10537	7.0		70% rec	.011 - .004 = .007
18	541	10.0	RPD 0% ±5		.01 CD 910 S1
19	dup541	10.0			.01
20	+10541	7.0		70% rec.	.017 - .01 = .007
21	541	9.5	5.4% RPD ±5		.0095 CD 910 S1
22	dup541	9.0			.009
23	+10541	7.0		70% rec	.017 - .0095 = .007
24	Calblank	<5			
25	digblank	<5			
26	545	6.0	RPD 8.7% ±5		CD 910 S2
27	dup545	5.5			
28	+10545	7.3		73% rec	.013 - .0057 = .0073
29	+20 541	14.5	digested	72.5% rec	.027 - .0125 = .0145
30	EMSL WP 386	23.7		TV. 25	.0237

393

Tray No. II Test Se Pg No. ___ Date 10/2/86

Analyst W Pitten

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	660549	8.0	RPD		.008 CD 910 S3
2	dup 549	7.0	±5		.007
3	+10 549	3.5		35% recov	.0105 - .007 = .0035
4	553	<5	RPD NC		CD 910 SW1
5	dup 553	<5			
6	+10 553	9.0	90% recov.		.009
7	Calblank	<5			
8	digblank	<5			
9	557	<5	RPD NC		CD 910SW2/SW2Q
10	dup 557	<5			
11	+10 557	10.0	100% rec.		.01
12	557	<5	RPD NC		
13	dup 557	<5			
14	+10 557	10.0	100% rec		.01
15	561	<5	RPD NC		CD 910-TB
16	dup 561	<5			
17	+10 561	10.0	100% rec		.01
18	565	<5	RPD NC		CD 910-FB
19	dup 565	<5			
20	+10 565	11.5	115% rec		.0115
21	Calblank	<5			
22	dig blank	<5			
23	EMS VP386	23.0	92% rec	T.V. = 25	.023
24	659412	23.0			.023
25	660653	10.5x2 = 21.0	2		.0105
26	655	<10	2		
27	+10 557	10.0	digested	100% rec	.01
28					
29					
30					

Tray No. III Test Se Pg No ___ Date 10/3/86

Analyst W Fitton

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	Blank				
2	2 *				
3	6				
4	10				
5	20				
6	40				
7	50				
8	70				
9	Cal blank	<5			
10	EMSL WP 386	24.2	96.8% rec.	Tr. 25	.0242
11	dig blank	<5			
12	660533	<10	2	RPD NC	CD 910 SED1
13	dup 533	<10	2		
14	+10 533	8.0	2	80% rec	.008
15	549	<10	2	RPD NC	CD 910 S3
16	dup 549	<10	2		
17	+10 549	5.5	2	55% rec	.0055
18	541		MSA.		
19	+5 541				
20	+10 541				
21	+20 541				
22	541				
23	+5 541				
24	+10 541				
25	+20 541				
26	545				
27	+5 545				
28	+10 545				
29	+20 545				
30	Cal blank	<5			
31	dig blank	<5			

~~66533 ÷ 2~~ Se 10/3/86

~~549 ÷ 2~~

M.S.A.

541	32	slope 21
+5	57	correlate .999
+10	65	y intercept 31.4
+20	101	X = 9.5

(I) dup

541	32	slope = 21
+5	49	correlation coeff. .987
+10	55	y intercept 31
+20	94	x = 10.2

(II)

541	28	slope 21
+5	38	r .99
+10	45	y int 2
+20	66	x = 14.8

545	25	slope 21
+5	38	corr. coeff. .999
+10	55	y intercept 24.2
+20	85	x = 8.0

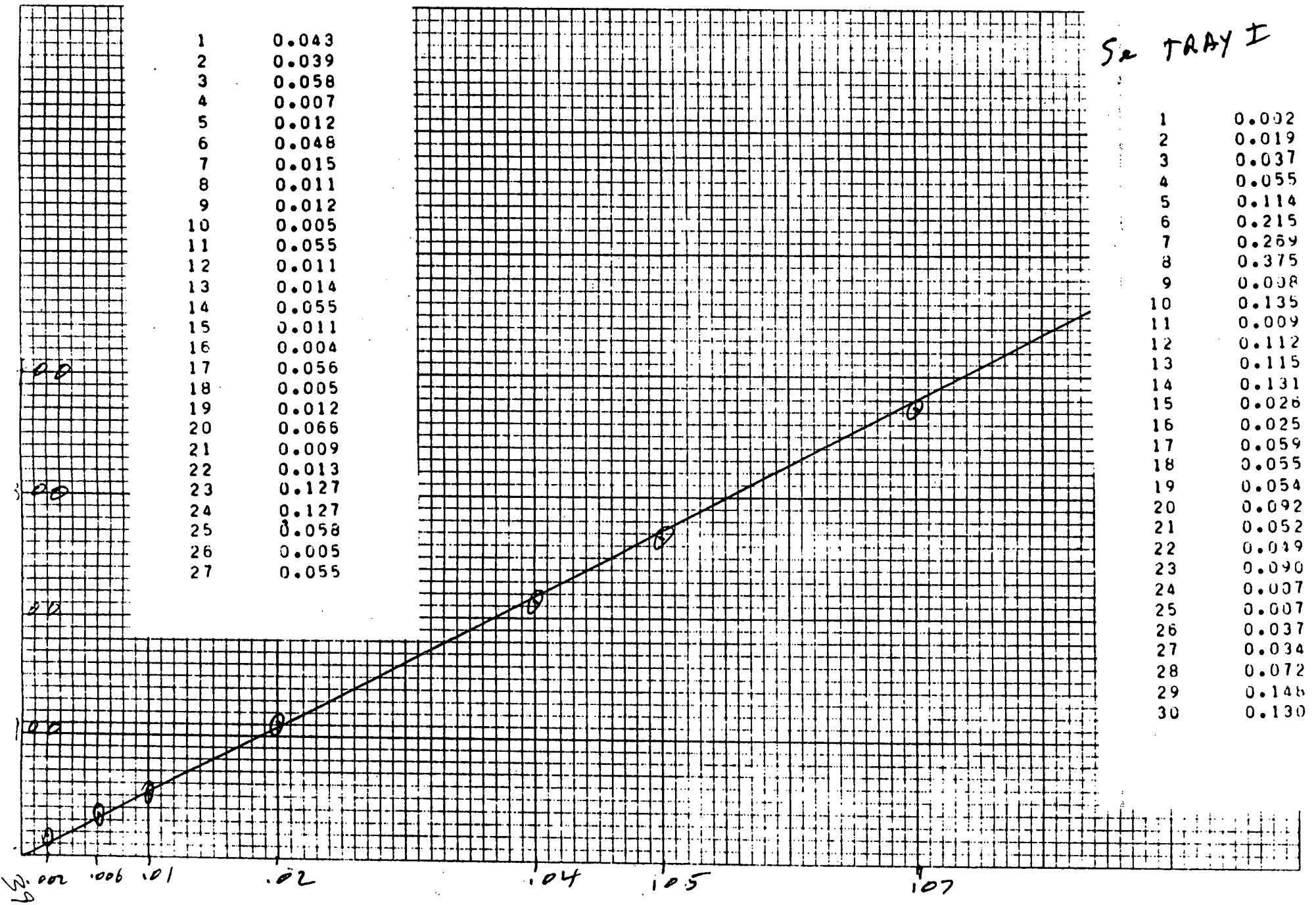
THE INCH • 7 X 10 INCHES
ESSER CO. MADE IN U.S.A.
46 0700

Se 10/2/86

10/2/86

Se TRAY II

1	0.043
2	0.039
3	0.058
4	0.007
5	0.012
6	0.048
7	0.015
8	0.011
9	0.012
10	0.005
11	0.055
12	0.011
13	0.014
14	0.055
15	0.011
16	0.004
17	0.056
18	0.005
19	0.012
20	0.066
21	0.009
22	0.013
23	0.127
24	0.127
25	0.058
26	0.005
27	0.055



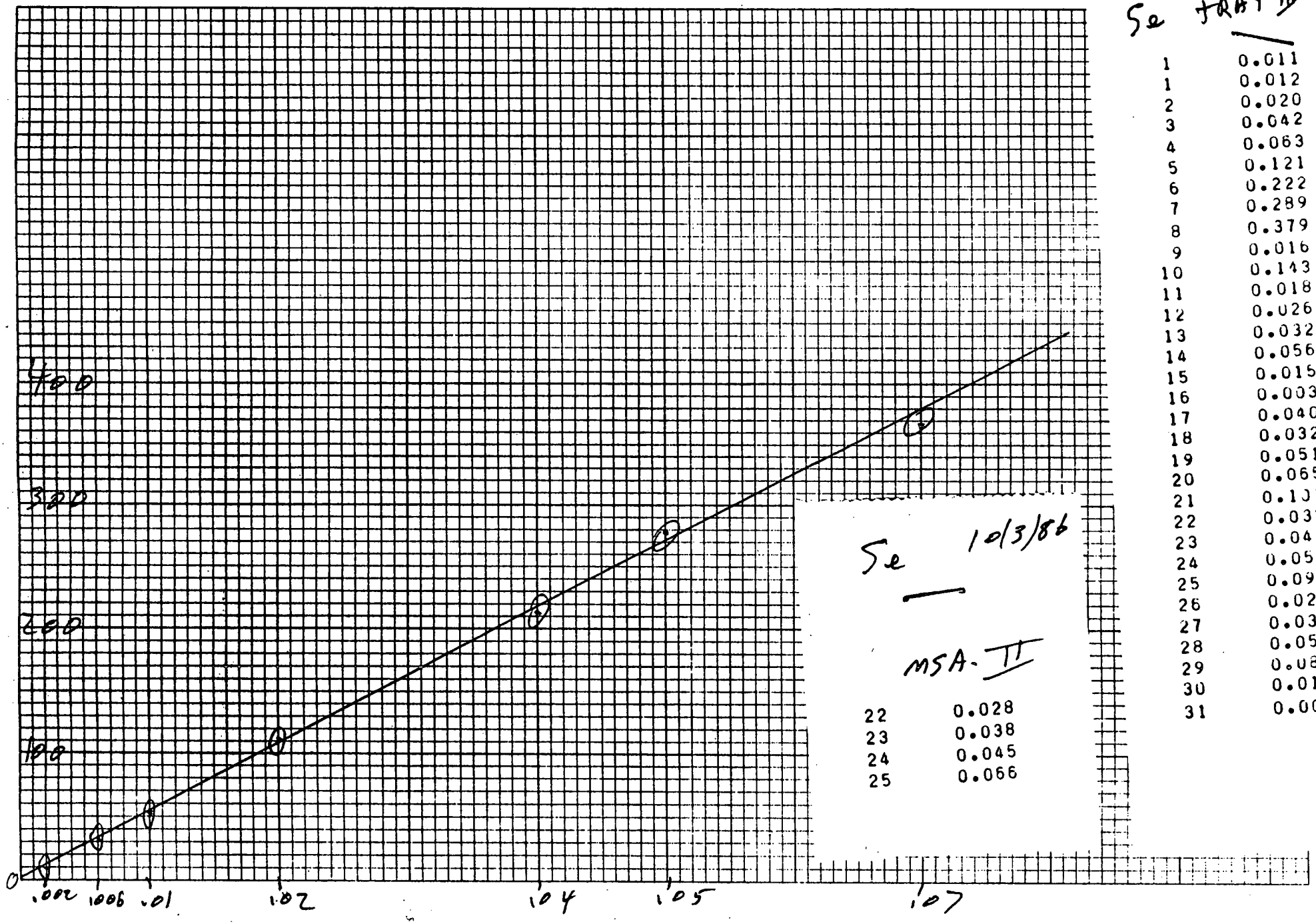
Se TRAY I

1	0.002
2	0.019
3	0.037
4	0.055
5	0.114
6	0.215
7	0.269
8	0.375
9	0.008
10	0.135
11	0.009
12	0.112
13	0.115
14	0.131
15	0.026
16	0.025
17	0.059
18	0.055
19	0.054
20	0.092
21	0.052
22	0.049
23	0.090
24	0.007
25	0.007
26	0.037
27	0.034
28	0.072
29	0.146
30	0.130

397

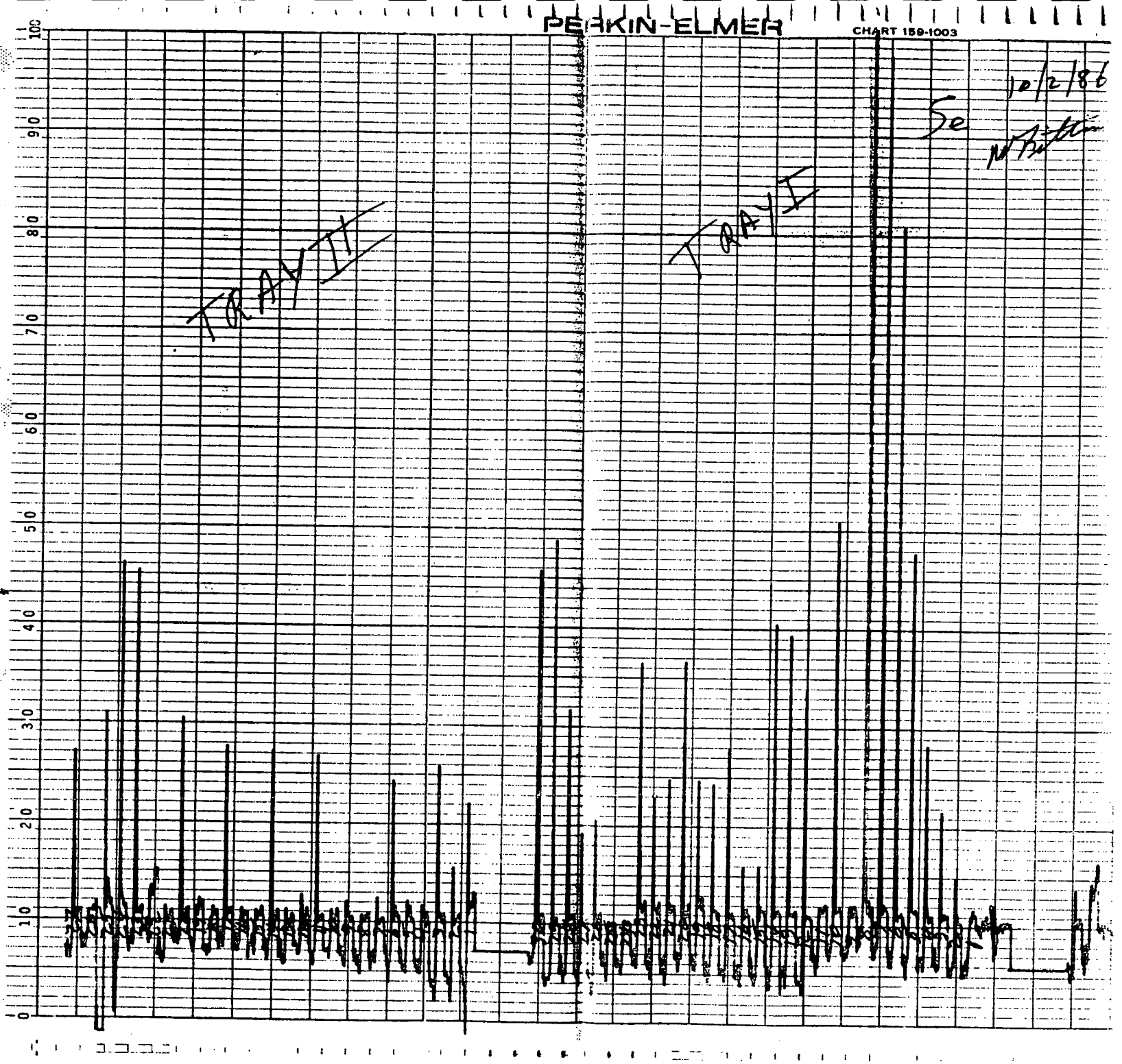
K•E 10 X 10 TO THE INCH • 7 X 10 INCHES KEUFFEL & ESSER CO. MADE IN U.S.A.

Se 46 0700 10/3/86

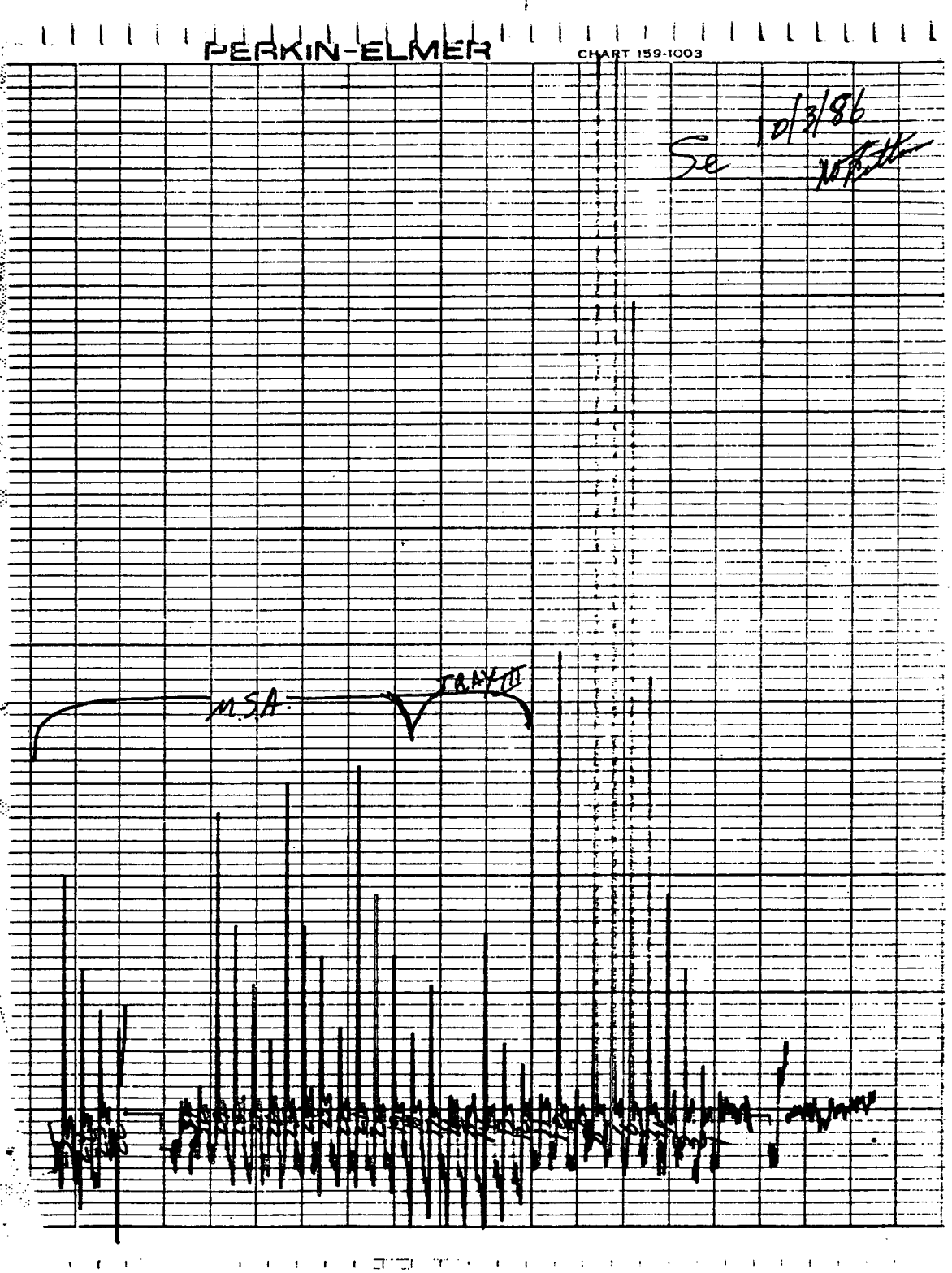


Se TRAY III

1	0.011
1	0.012
2	0.020
3	0.042
4	0.063
5	0.121
6	0.222
7	0.289
8	0.379
9	0.016
10	0.143
11	0.018
12	0.026
13	0.032
14	0.056
15	0.015
16	0.003
17	0.040
18	0.032
19	0.051
20	0.065
21	0.101
22	0.032
23	0.049
24	0.055
25	0.094
26	0.025
27	0.038
28	0.055
29	0.085
30	0.011
31	0.008


PERKIN-ELMER
CHART 159-1003
100
90
80
70
60
50
40
30
20
10
0
TRAY I
TRAY I
Se
10/2/86

399


PERKIN-ELMER
CHART 159-1003
Se
10/3/86
M.S.A.
TRAY III

H2M

Pb

DATE 9-24-86

Absorbance of 20.0 Std.- .180

ANALYST JMH

S1-_____; S2-_____; S3-_____

Standards:

	Known Value	Reading
1)	.5	.5
2)	1.0	1.0
3)	2.0	2.0
4)	20.0	20.0
5)		

Lab No.	Duplicate		Spike	Spike Reading	% Recovery
660541	1.3	0% RPD	0.5 digest SPIKE	1.7	~~100~~% 80%

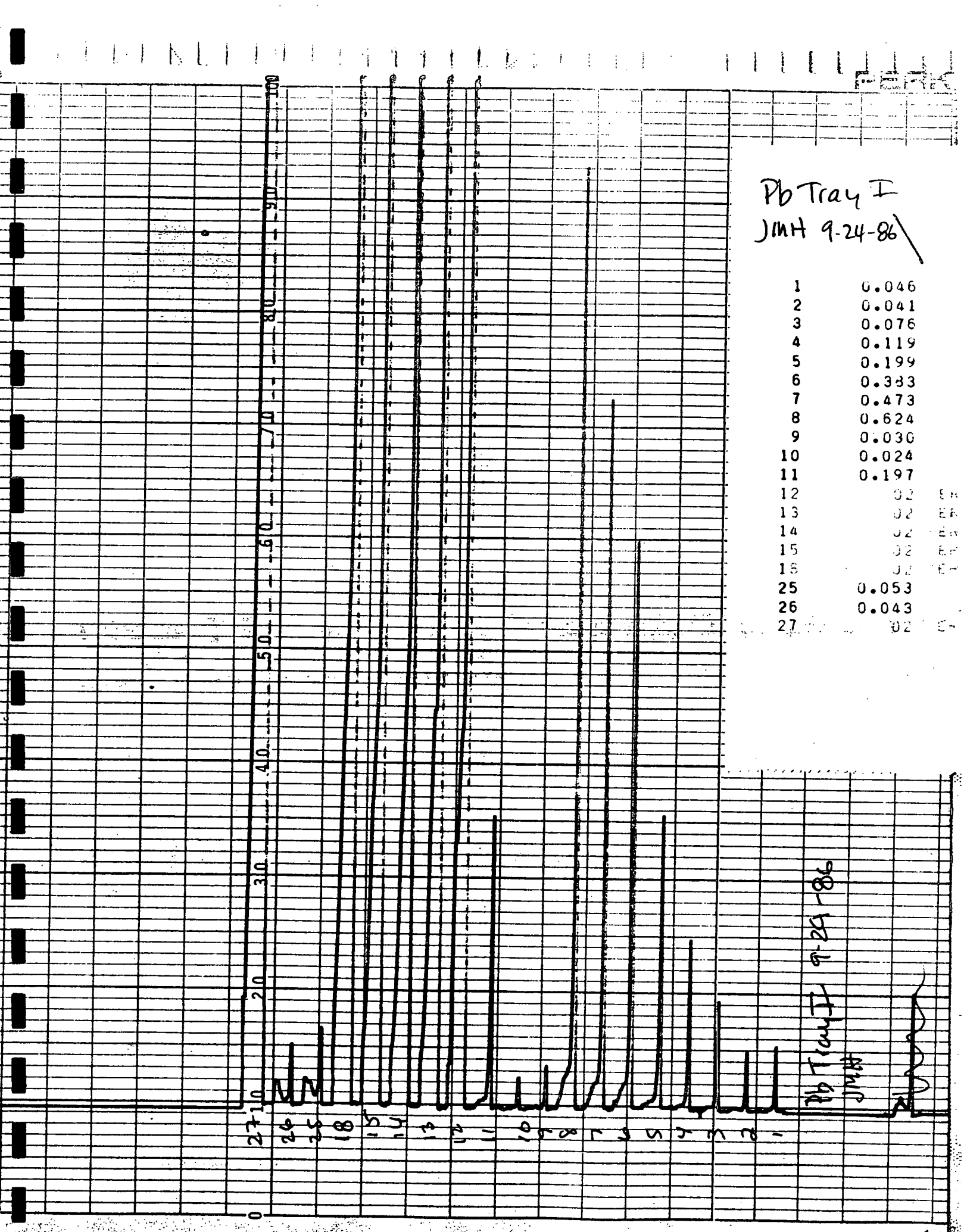
Lab No.	DEC ID Nº	D.I. FACTOR	INST. READING mg.	RESULT ug/L*
CALIBRATION BLANK			<0.2	<200 *
METHOD BLANK			<0.2	<200 *
CALIBRATION VER. EMSL/KNOWN	ICAP-19 TRUE value 1.01	2	1.00	1000 *
660533	CD910-SED1	200ml/1g x .9mg/l ÷ .56	0.9	321 mg/Kg
537	CD910-SED2	200ml/1g x .9mg ÷ .70	0.9	257 mg/Kg
541	CD910-S1	200ml/1g x 1.3mg ÷ .59	1.3	441
545	CD910-S2	200ml/1g x 2.7mg ÷ .93	2.7	581
549	CD910-S3	200ml/1g x 8.7mg ÷ .90	8.7	1930
				(DRY WEIGHT)
CALIBRATION BLANK			<0.2	<200 *
METHOD BLANK			<0.2	<200 *
CONTINUING EMSL CALIBRATION VERIFICATION	ICAP-19 TV 1.01 mg/l	0	1.00	1000 *

400

Tray No. I Test Pb Date 9-24-86

Analyst JMH

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	blank				
2	2*				
3	6				
4	10				
5	20				
6	40				
7	50				
8	70				
9	CAL BLANK	—			
10	DIG BLK	—			
11	EMSL	97.5*	(5) 19.5*	98% rec	WP386 TV100*
12	660 533	DILUTE			NJ DEP #
13	dup 533	↓			CD 910 - SED 1
14	+10 533	↓			
15	660 537	DILUTE			
16	dup 537	↓			CD 910 - SED 2
17	+10 537	↓			
18	660 541	DILUTE			
19	dup 541	↓			
20	+10 541	↓			
21	660 541	↓			CD 910 - S1
22	dup 541	↓			
23	+10 541	↓			
24	+20 541	↓		digested	
25	CAL BLK	—			
26	DIG BLK	—			
27	660 545	DILUTE			
28	dup 545	↓			CD 910 - S2
29	+10 545	↓			
30					



1	0.046	
2	0.041	
3	0.076	
4	0.119	
5	0.199	
6	0.383	
7	0.473	
8	0.624	
9	0.030	
10	0.024	
11	0.197	
12	02	ER
13	02	ER
14	02	ER
15	02	ER
16	02	ER
25	0.053	
26	0.043	
27	02	ER

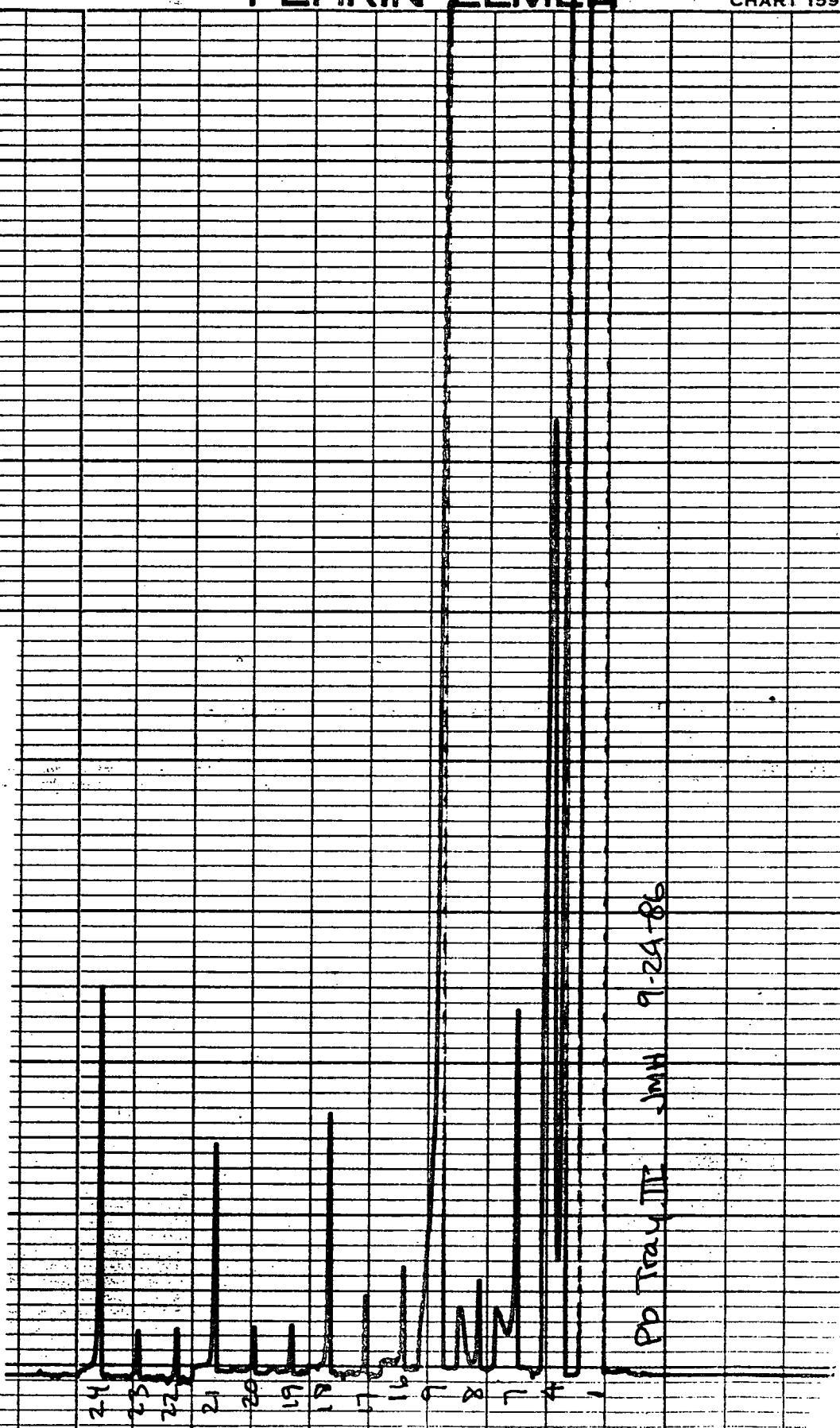
Tray No. II Test Pb Date 9-24-86
Analyst JMH

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	660549	DILUTE			CD 910-S3
2	dup 549	↓			
3	+10 549	↓			
4	660553	DILUTE			CD 910-SW1
5	dup 553	(5x) ↓			
6	+10 553	↓			
7	CAL BLK	—			
8	DIG BLK	—			
9	660557	DILUTE			CD 910 SW2/SW2Q
10	dup 557	(10x) ↓			
11	+10 557	↓			
12	+20 557	↓		digested	
13	660557	↓			
14	dup 557	↓			
15	+10 557	↓			
16	660561	<2.0*	RPD NC	OK	CD 910 - TB
17	dup 561	<2.0*			
18	+10 561	12.0*	120% rec		
19	660565	<2.0*	RPD NC	OK	CD 910 - FB
20	dup 565	<2.0*			
21	+10 565	10.5*	105% rec		
22	CALBLK	—			
23	DIG BLK	—			
24	EMSL	100*	(5) 20.0*	100% rec	WP386 TV 100*
25					
26					
27					
28					
29					
30					

PERKIN-ELMER CHART 159-100

Pb Tray II
JMH 9-24-86

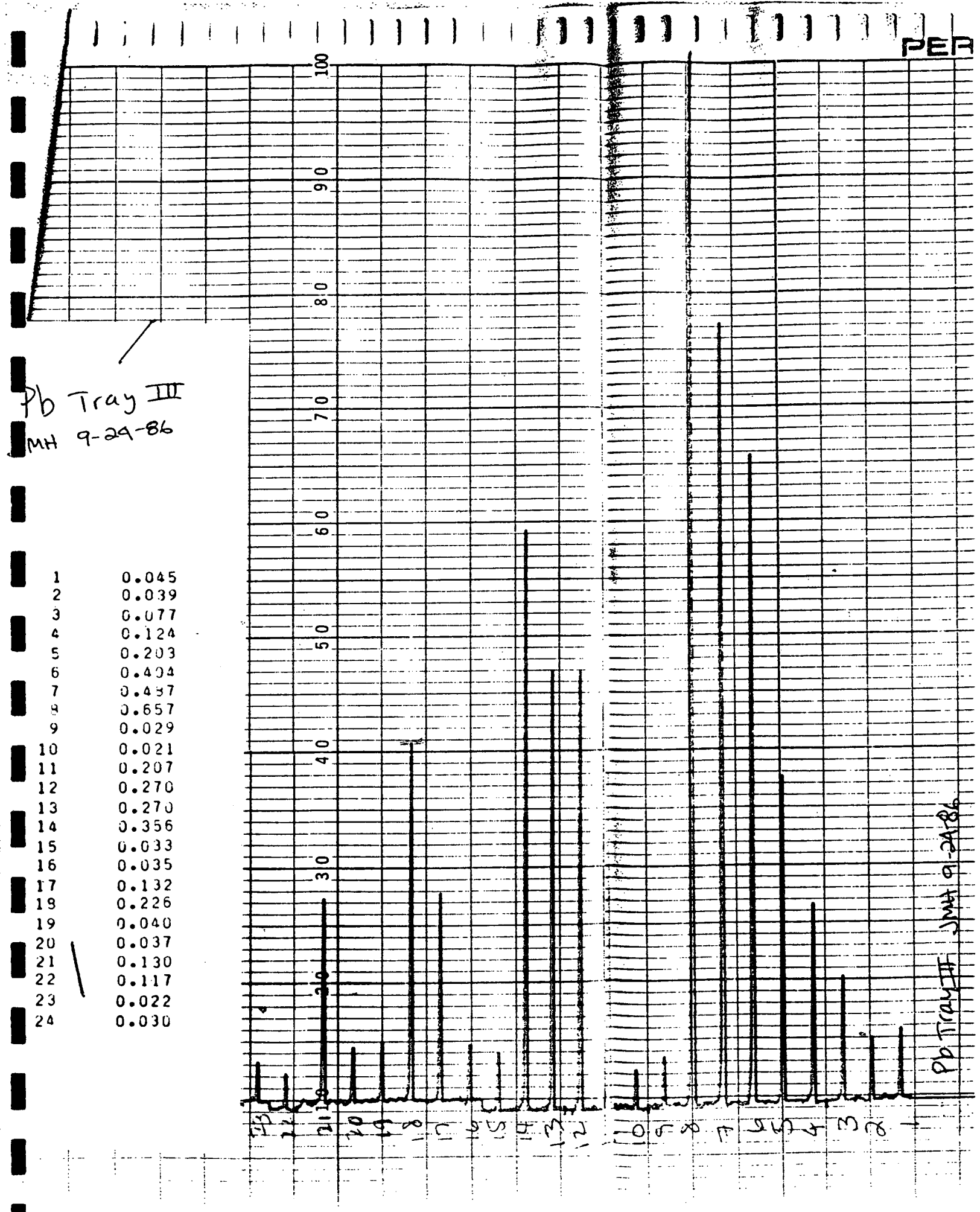
1	02 ER
4	0.898
7	0.183
8	0.048
9	1.630
16	0.056
17	0.043
18	0.133
19	0.025
20	0.026
21	0.119
22	0.025
23	0.023
24	0.198
~~25~~	~~0.000~~



Tray No. III Test Pb Date 9-24-86

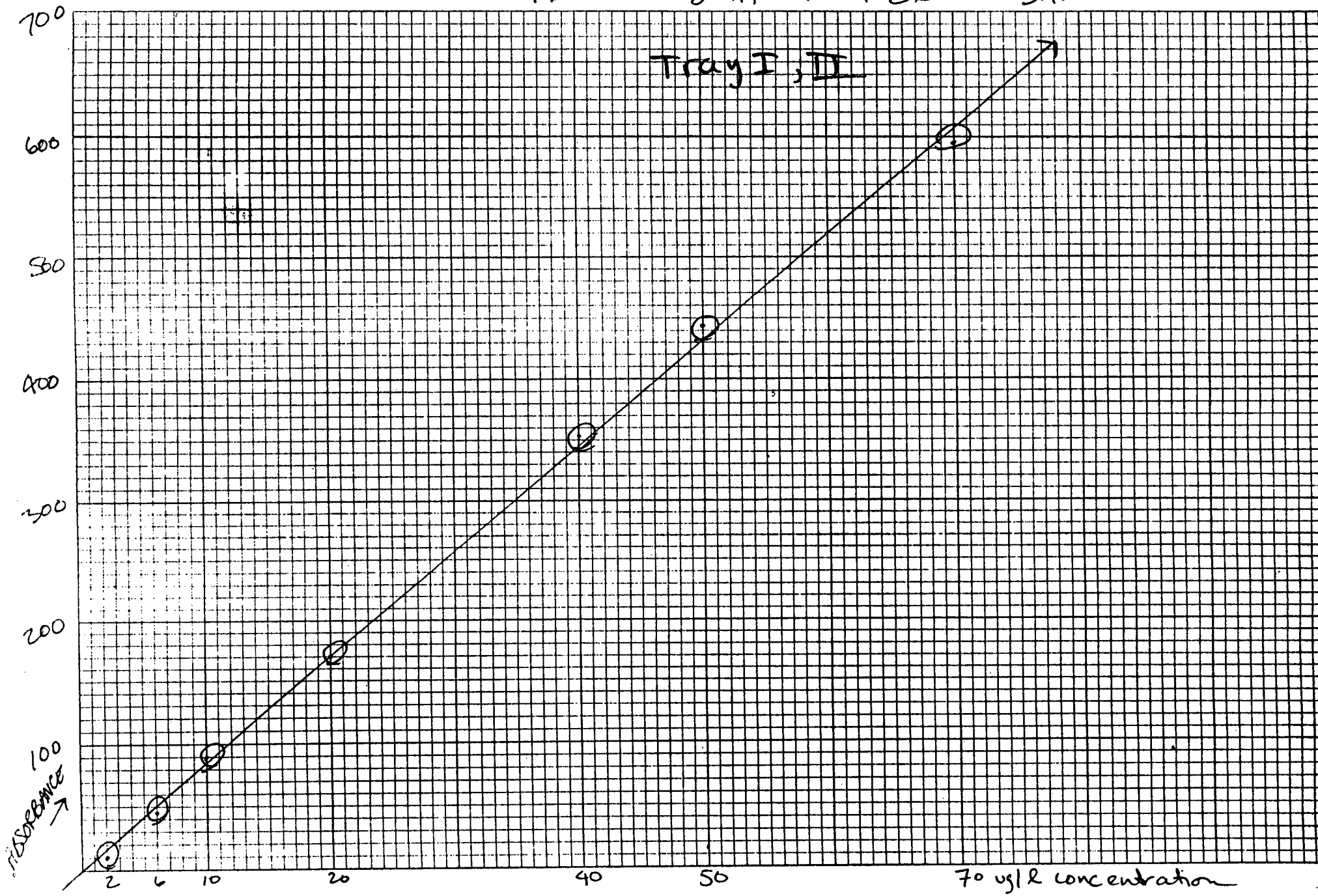
Analyst JMH

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	blank				
2	2*				
3	6				
4	10				
5	20				
6	40				
7	50				
8	70				
9	CAL BLK	—			
10	DIG BLK	—			
11	WP386	100.0*	(5) 20.0*	100% rec	TV 100*
12	660553	135.0*	(5) 27.0*	0% RPD	CD 910-SW1
13	dup 553	135.0*	(5) 27.0*		
14	+10 553	36.5*	(5) 36.5*	95% rec	
15	660 557	<20.0*	(10) <2.0*	RPD NC	
16	dup 557	<20.0*	<2.0*		
17	+10 557	11.5*	11.5*	115% rec	
18	+20 557	22.0*	22.0*	110% rec	see case narrative CD 910 SW2/SW2Q
19	660 557	<20.0*	<2.0*		
20	dup 557	<20.0*	<2.0*		
21	+10 557	11.0*		110% rec	
22	CAL BLK	—			
23	DIG BLK	—			
24					
25					
26					
27					
28					
29					
30					



1	0.045
2	0.039
3	0.077
4	0.124
5	0.203
6	0.404
7	0.487
8	0.657
9	0.029
10	0.021
11	0.207
12	0.270
13	0.270
14	0.356
15	0.033
16	0.035
17	0.132
18	0.226
19	0.040
20	0.037
21	0.130
22	0.117
23	0.022
24	0.030

Pb JMH 9-24-86 5MV



K+E 10 X 10 TO THE INCH • 7 X 10 INCHES KEUFFEL & ESSER CO. MADE IN U.S.A.
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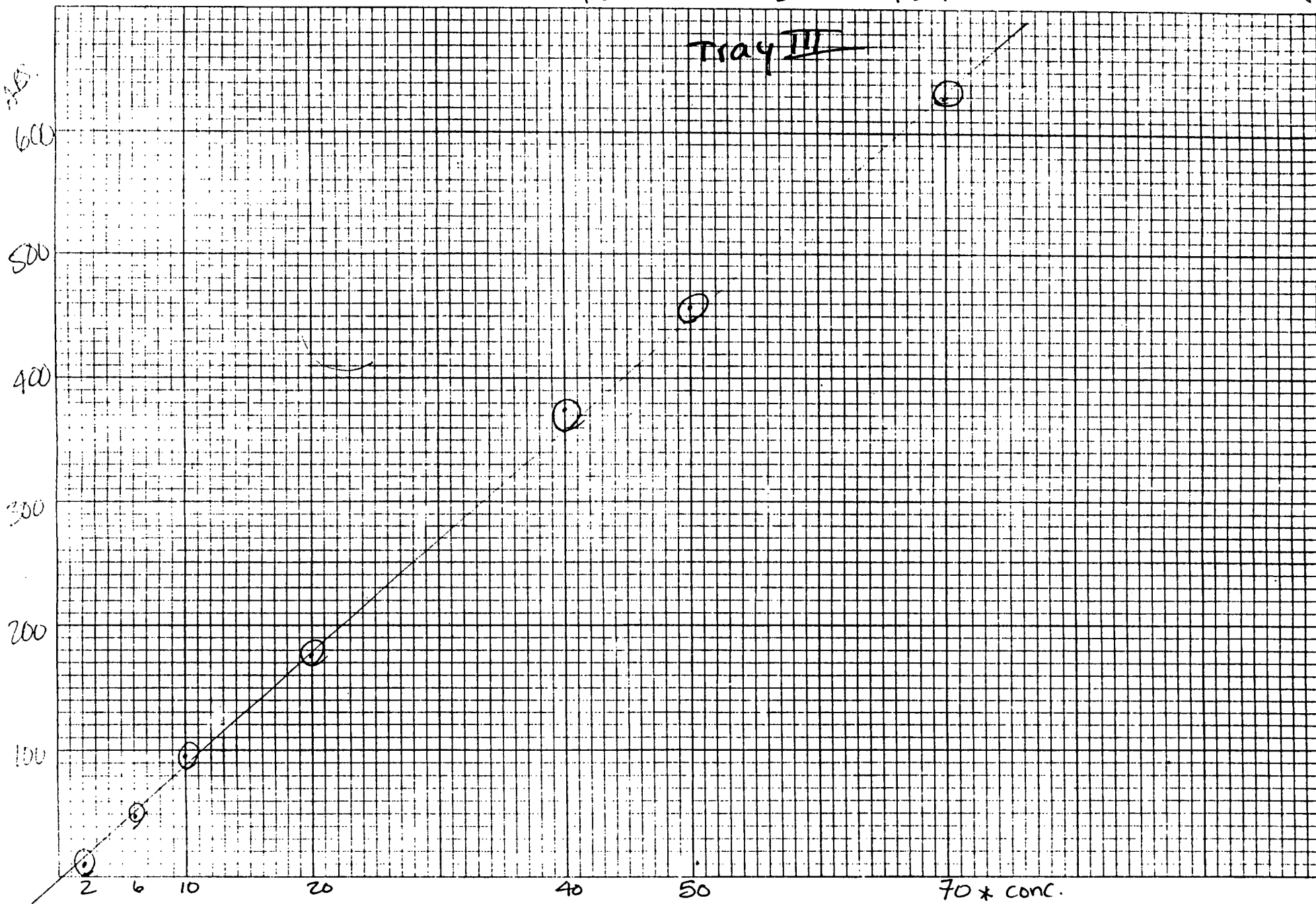
✓ Pb JMH 9-29-86

Tray III



K+E 10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.
46 0700

DATE 9-30-86

TEST CODE TI

ANALYST JMH

LAB NO.	RESULT
660533	<3.6 mg/kg
537	<2.9
541	<3.4
545	<2.2
549	<2.2
553	<10 *
557	
561	
565	

Steve can I have these back after you enter them today? no copy.

Tray No. I Test Tl Pg No. — Date 9/25/8[illegible]

Analyst [illegible]

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	Blank				
2	2 *				
3	6				
4	10				
5	20				
6	40				
7	50				
8	70				
9	Cal blank	<10			
10	EMSL ICAP 19a	1020	100	T.V. 1000	.0102 x100 = 1.02 99% rec
11	Dig blank	<10			
12	660533	<10	RPDNC		CD 910 SED1
13	dup 533	<10			
14	+20 533	19.5	97.5% rec		.0195
15	537	<10	RPDNC		CD 910 - SED2
16	dup 537	<10			
17	+20 537	16.5	82.5% rec		.0165
18	541	<10	RPDNC		CD 910 - S1
19	dup 541	<10			
20	+20 541	19.0	95% rec		.019
21	541	<10	RPDNC		CD 910 - S1
22	dup 541	<10			
23	+20 541	18.0	90% rec		.018
24	+50 541	36.0	digested	72% rec	.036
25	Cal blank	<10			
26	dig blank	<10			
27	545	<10	RPDNC		CD 910 - S2
28	dup 545	<10			
29	+20 545	16.0	80% rec		.016
30					

Tray No. II Test T1 Pg No. — Date 9/25/86

Analyst W. [illegible]

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	660549	<10	RPD NC		CD 910-S3
2	dup 549	<10			
3	+20 549	15.0	75% rec		.015
4	553	<10	RPD NC		CD 910-SW1
5	dup 553	<10			
6	+20 553	15.0	75% rec		.015
7	Cal blank	<10			
8	dig blank	<10			
9	557	<10	RPD NC		CD 910 SW2/SW2Q
10	dup 557	<10			
11	+20 557	14.0	70% rec		.014
12	+50 557	33.0	digested	66% rec	.033
13	557	<10	RPD NC		
14	dup 557	<10			
15	+20 557	14.0	70% rec		.014
16	561	<10	RPD NC		CD 910-TB
17	dup 561	<10			
18	+20 561	20.0	100% rec		.020
19	565	<10	RPD NC		CD 910-FB
20	dup 565	<10			
21	+20 565	20.0	100% rec		.02
22	Cal blank	<10			
23	dig blank	<10			
24	East ICAP 19	1030	100	T.V. 1010	.0103 x 100 = 1.03 101% rec
25					
26					
27					
28					
29					
30					

Tl TRAY II

TO THE INCH • 7 X 10 INCHES
& ESSER CO. MADE IN U.S.A.

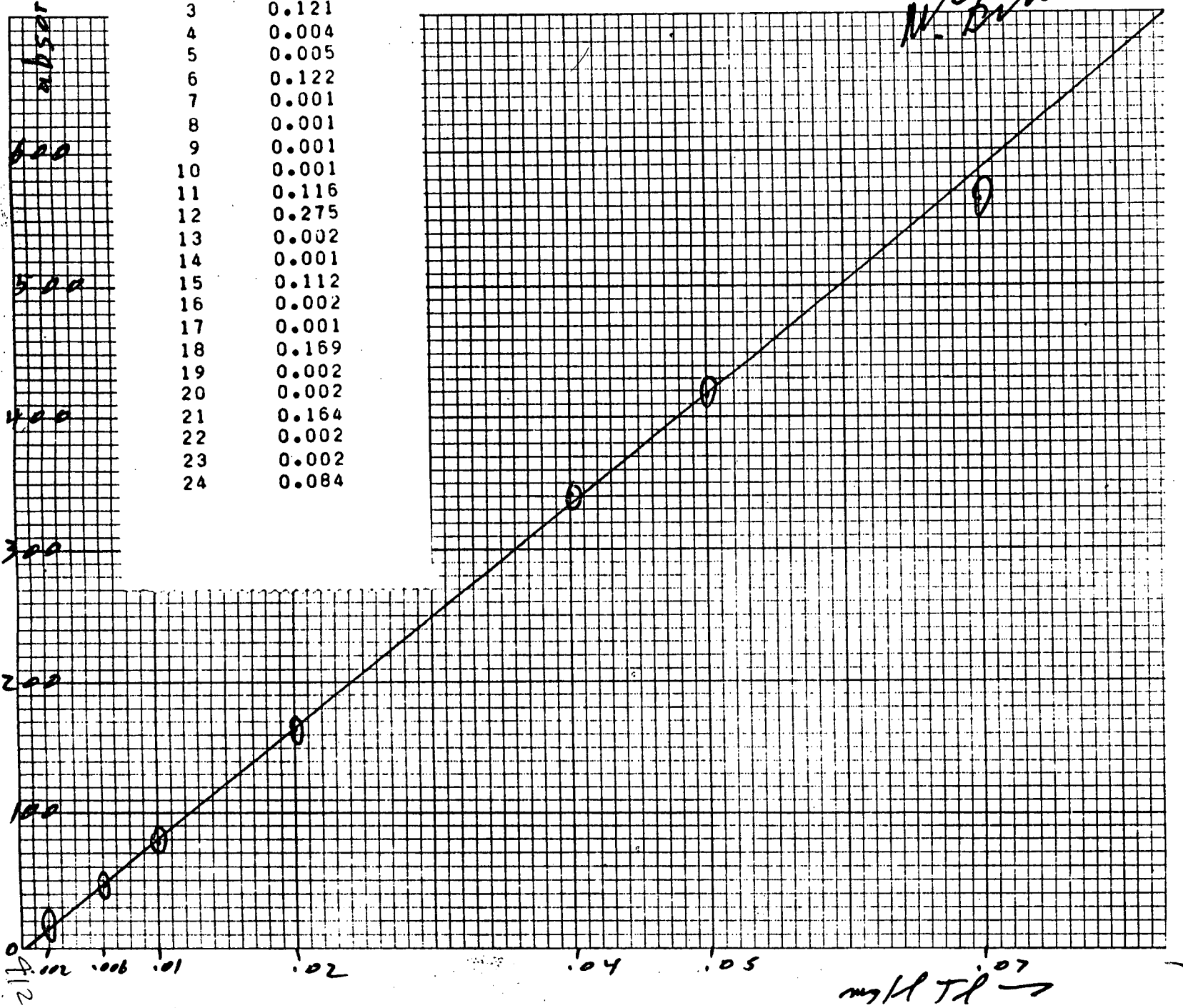
Tl

46 0700

9/25/86

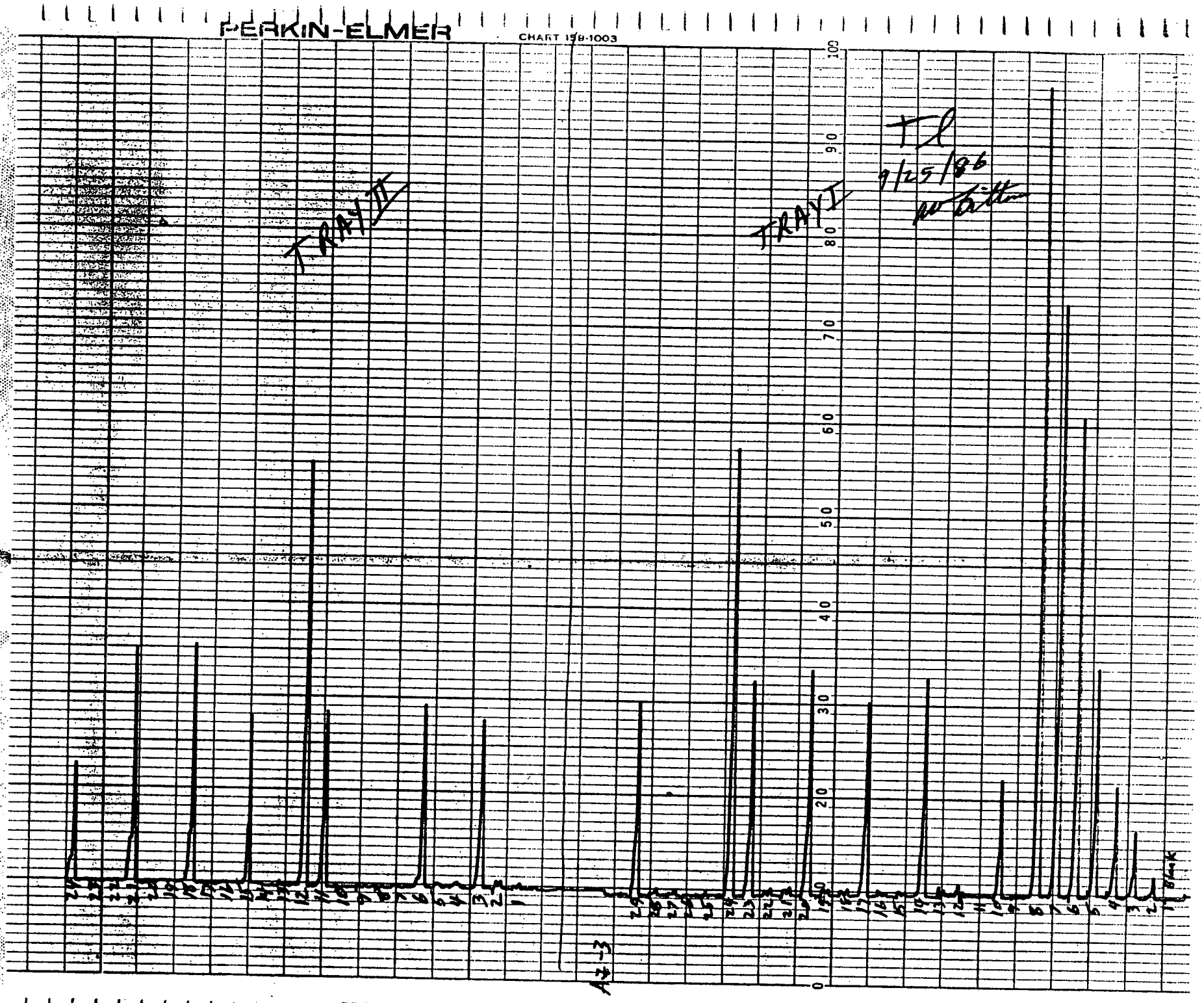
M. Bitter

1	0.005
2	0.007
3	0.121
4	0.004
5	0.005
6	0.122
7	0.001
8	0.001
9	0.001
10	0.001
11	0.116
12	0.275
13	0.002
14	0.001
15	0.112
16	0.002
17	0.001
18	0.169
19	0.002
20	0.002
21	0.164
22	0.002
23	0.002
24	0.084



Tl TRAY I

1	0.001
2	0.017
3	0.048
4	0.080
5	0.155
6	0.342
7	0.418
8	0.565
9	0.001
10	0.083
11	0.001
12	0.009
13	0.008
14	0.161
15	0.003
16	0.003
17	0.135
18	0.005
19	0.004
20	0.158
21	0.006
22	0.005
23	0.150
24	0.303
25	-0.001
26	-0.002
27	0.004
28	0.005
29	0.131


PERKIN-ELMER
CHART 159-1003
TRAY II
TRAY I
Tl
9/25/86
Az-3
Blank
0
20
30
40
50
60
70
80
90
100

413

DATE 9-30-86

TEST CODE As ANALYST JMH

LAB NO.	RESULT
6600533	64.3 mg/kg
537	13.2
541	30.8
545	15.9
549	26.2
553	11.8 *
557	<10.0 *
561	<10.0 *
565	<10.0 *

Tray No. I Test As Pg No ___ Date 9/30/86

Analyst [illegible]

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	Blank				
2	2 *				
3	6				
4	10				
5	20				
6	40				
7	50				
8	70				
9	Calblank				
10	EMSL WP 386	101	5	T.V.=100	.0202 x 5 = 101
11	Digblank				
12	660533				CD910SED1
13	dup 533				
14	+20 533				
15	537				CD910-SED2
16	dup 537				
17	+20 537				
18	541				CD910-S1
19	dup 541				
20	+20 541				
21	541				CD910-S1
22	dup 541				
23	+20 541				
24	+20 541		digested		
25	Calblank				
26	digblank				
27	545				CD910-S2
28	dup 545				
29	+20 545				
30					

All samples Over Calibration Must be diluted

415

TRAY 2 Test AS Date 9/30/86

Analyst M Fitton

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	660549		over cal.		CD 910-S3
2	dup549		dilute		
3	+20 549				
4	553	10.5	RPD=21.3%	*	CD 910-SW1 .0105
5	dup 553	13.0			
6	+20553	28.5	90% rec		.013
7	Calblank	<10			.0285-.0105=.018
8	digblank	<10			
9	557	<10	RPDNC		CD 910SW2/SW2Q
10	dup 557	<10			.002
11	+20557	19.5	97.5% rec		.0215-.002=.0195
12	+20557	22	digested	112%	
13	557	<10	RPDNC		
14	dup 557	<10			≈.002
15	+20 557	19.0	95% rec		.021-.002=.019
16	561	<10	RPDNC		CD 910-TB
17	dup561	<10			
18	+20561	20	100% rec		~~[illegible]~~ .02
19	565	<10			CD 910-FB
20	dup565	<10			
21	+20565	21.5	107% rec		.0215
22	Calblank	<10			
23	digblank	<10			
24	EMSL WP 386	97.5	5	Tr.=100	.0195X5=.0975 97.5% rec
25	659412		dilute		
26	660653		20		.022X20=.44
27	655		20		.013X20=.26
28	~~171~~				
29	~~172~~				
30	~~17~~				

** KEYPUNCH RESULTS WITH * UNLESS SPECIFIED OTHERWISE

A16

Tray No. III Test As Pg No. ___ Date 9/30/80

Analyst [illegible]

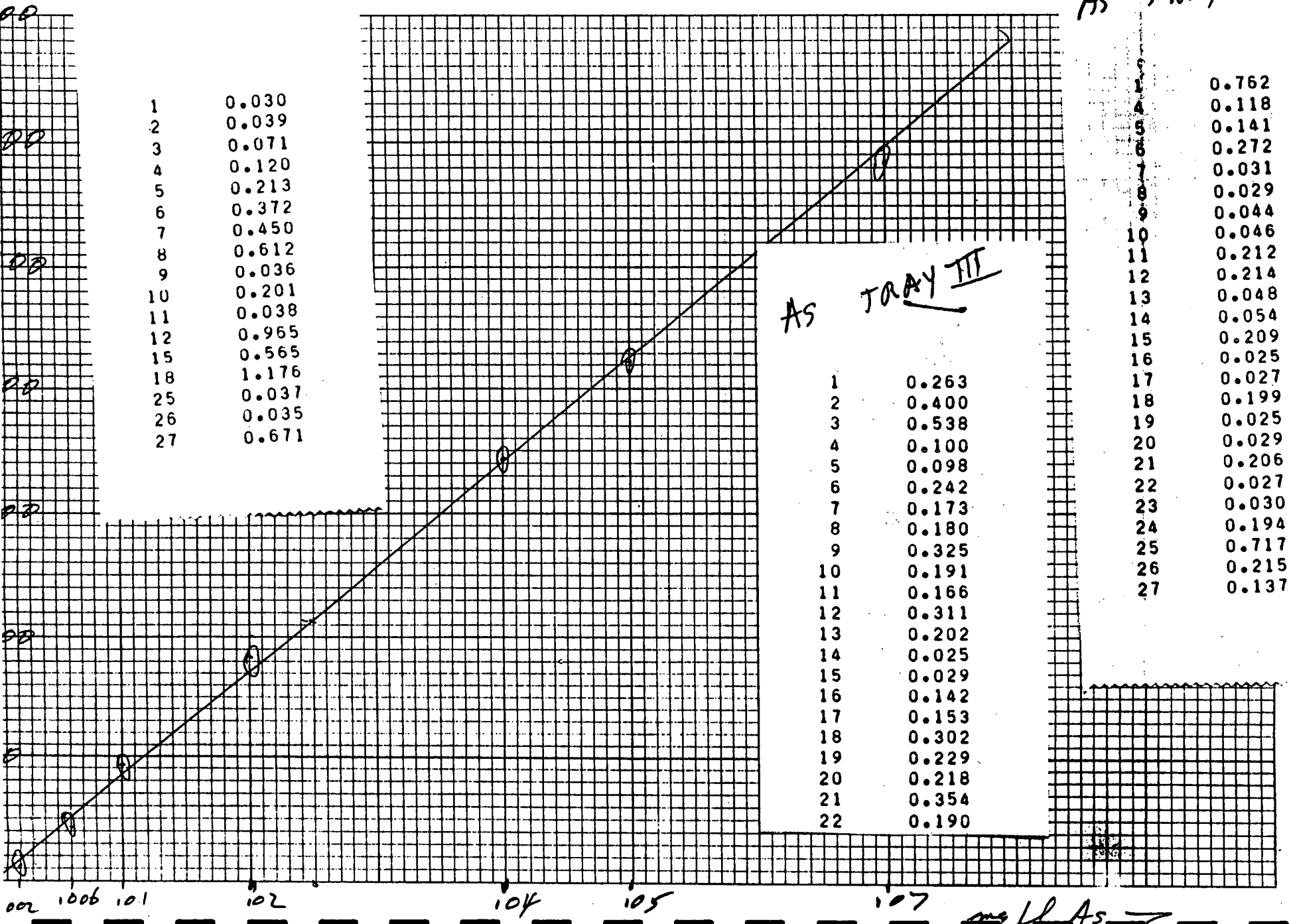
Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	660533	140	5	44.4% RPD*	.028 x5 = .14 CD910SED1
2	dup 533	220	5		.044 x5 = .22
3	+20 533	17.0	5	85% recov.	.061 - .044 = .017 .061 x5 = .305
4	537	47.5	5	5.9% RPD	.0095 x5 = .0475 CD910SED2
5	dup 537	45.0	5		.009 x5 = .045
6	+20 537	17.0	5	85% recov	.026 - .009 = .017 .026x5 = .13
7	541	90.0 (91.3)	5	RPD = 2.7%	.018 x5 = .09 CD910S1
8	dup 541	92.5	5		.0185 x5 = .0925
9	+20 541	18.0	5	90% recov	.036 - .018 = .018
10	541	100.0 (92.5)	5	16.2% RPD	.02 x5 = .100 CD910S1
11	dup 541	85.0	5		.017 x5 = .085
12	+20 541	17.0	5	85% recov.	.034 - .017 = .017
13	+20 541	15.0	digested ÷5	75% recov.	.021 x5 = .105 - .09 = .015
14	Cal blank	<10			
15	dig blank	<10			
16	545	70.0	5	10.1% RPD	.014 x5 = .07 CD910S2
17	dup 545	77.5	5		.0155 x5 = .0775
18	+20 545		5	95% recov.	.033 - .014 = .019
19	549	120.0	5	0.9% RPD.	.024 x5 = .12 CD910S3
20	dup 549	115.0	5		.023 x5 = .115
21	+20 549		5	85% recov	.040 - .023 = .017
22	EMSL WP 386	97.5	5	97.5% recov	.0195 x5 = .0975 T.V. 100
23	659412	40.0	10		.004 x10 = .04
24					
25					
26					
27					
28					
29					
30					

417

0 TO THE INCH • 7 X 10 INCHES
EL & ESSER CO. MADE IN U.S.A.
46 0700

Abs.

As



As TRAY I

1	0.030
2	0.039
3	0.071
4	0.120
5	0.213
6	0.372
7	0.450
8	0.612
9	0.036
10	0.201
11	0.038
12	0.965
15	0.565
18	1.176
25	0.037
26	0.035
27	0.671

As TRAY II

1	0.263
2	0.400
3	0.538
4	0.100
5	0.098
6	0.242
7	0.173
8	0.180
9	0.325
10	0.191
11	0.166
12	0.311
13	0.202
14	0.025
15	0.029
16	0.142
17	0.153
18	0.302
19	0.229
20	0.218
21	0.354
22	0.190

As TRAY 2

1	0.762
4	0.118
5	0.141
6	0.272
7	0.031
8	0.029
9	0.044
10	0.046
11	0.212
12	0.214
13	0.048
14	0.054
15	0.209
16	0.025
17	0.027
18	0.199
19	0.025
20	0.029
21	0.206
22	0.027
23	0.030
24	0.194
25	0.717
26	0.215
27	0.137

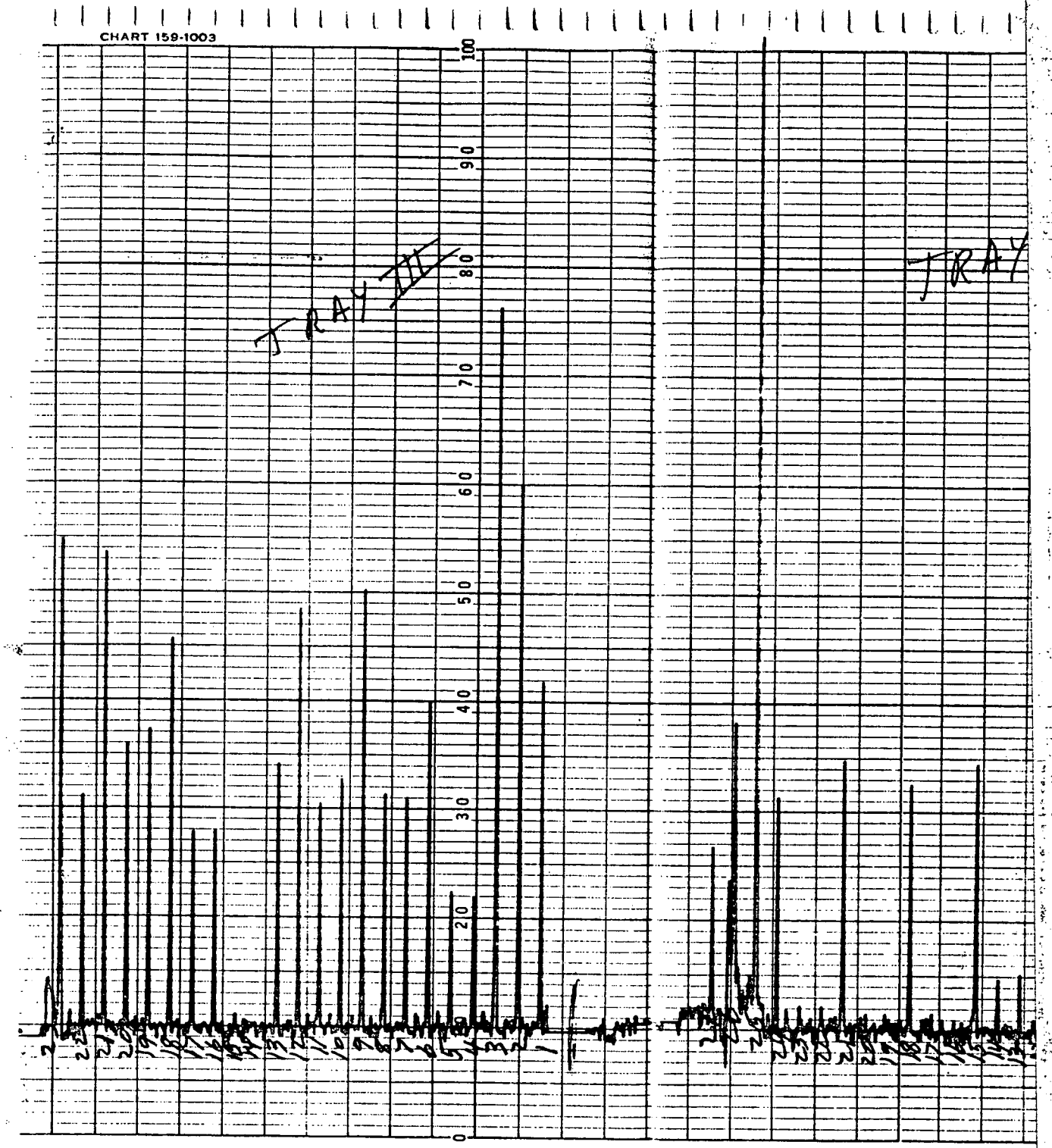


CHART 159-1003
TRAY III
TRAY
0
20
30
40
50
60
70
80
90
100

Tray No. _____ Test Hg Pg No. ___ Date 10/6/86

Analyst JMH

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	Blank				
2	10 *				
3	8				
4	6			calculations	ug/g ÷ %TS = mg/kg dry
5	4				
6	2				
7	1				
8	.2 *				
9	Blank	<0.2 *			
10	WP386	4.8 *	96% rec		TV 5.0*
11	660 541	.88 mg/kg	.26g .135*	82% RPD	.135/.26 ÷ TS/100 .54 = .88 mg/kg
12	dup 541	2.1 mg/kg	.25g .310*		CD910-51 .319/.25 ÷ .59 = 2.1
13	tl 541		.36g .310*		.31/.36 ÷ .59 = 1.46
14	660 545	1.0 mg/kg	.31g .30*	.3/.31 ÷ .83 1.04	CD910-52
15	660 549	1.4 mg/kg	.43g .53*	.53/.43 ÷ .90 1.37 (1.4)	CD910-53
16	660743	.29 mg/kg	.55g .03*	19% .03/.55 ÷ .11	EEI } 29% RPD
17	dup 743	.39 mg/kg	.40g .03*	.03%	
18	tl 743	50% Rec	.20g .06*	Flag with N	
19	661 343	<0.2*			
20	661 344	<0.2*			
21	BLANK	<0.2*			TV 5.0*
22	WP386	4.8	96% rec		
23	661 345	<0.2*			EEI
24	346	0.4*			
25	356	2.0*	(2) 1.0*		
26	357	2.6*	1.3*		
27	358	0.4*	0.2*		
28	359	0.4*	0.2*		
29	365	3.2*			
30	661 366	<0.2*	RPD NC		
30A	dup 366	<0.2*			
30B	660 744	2.0*			

Tray No. IV

Test Hg Pg No. ___ Date 10-6-86

Analyst JMH

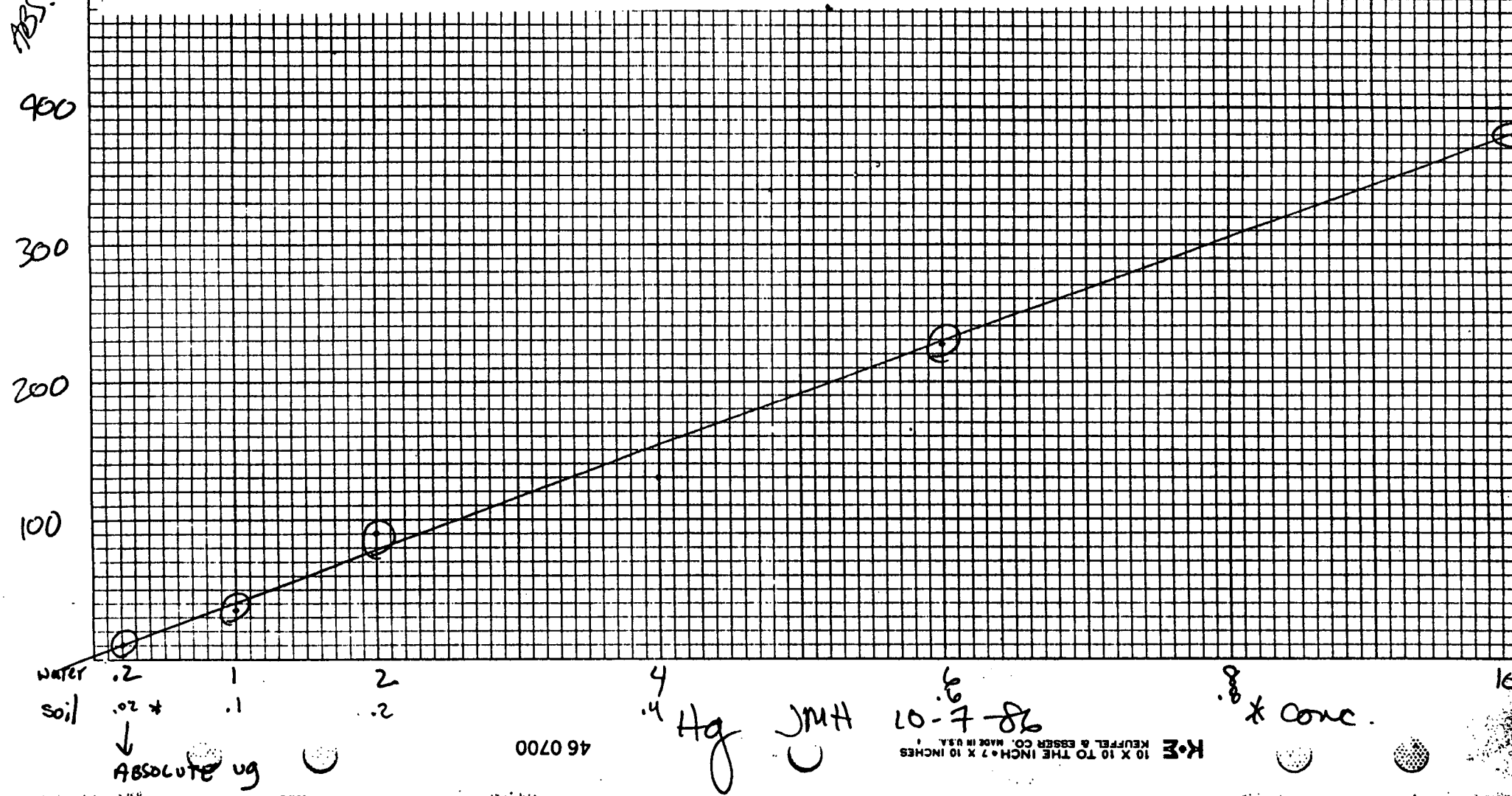
Cup	Lab No.	Result**	dil. fact.	abs.	notes
31	661366+	0.8*	80% rec		EEI
32	BLANK	<0.2*			
33	WP386	4.9*	98% rec		TV 5.0* EMSL
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

420

** KEYPUNCH ...

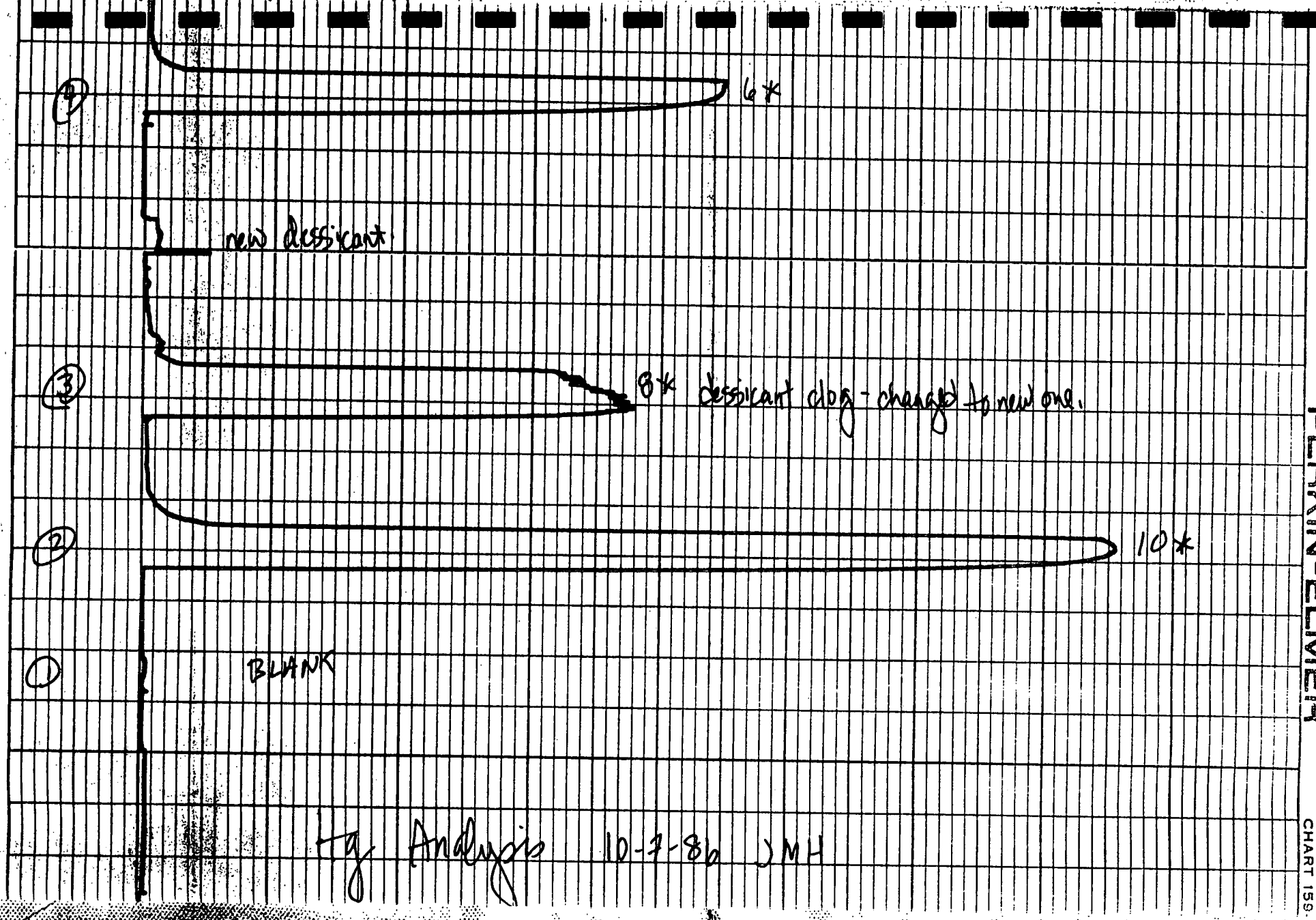
Hg JMH 10-7-86

1	0.001
2	0.380
3	0.188
4	0.228
5	0.131
6	0.089
7	0.037
8	0.011
9	0.004
10	0.188
11	0.057
12	0.123
13	0.124
14	0.120
15	0.206
16	0.019
17	0.017
18	0.029
19	0.015
20	0.008
21	0.006
22	0.191
23	0.013
24	0.023
25	0.045
26	0.056
27	0.016
28	0.015
29	0.131
30	0.006
30A	0.008
30B	0.084
31	0.040
32	0.007
33	0.193



Hg JMH 10-7-86

K+E 10 X 10 TO THE INCH • 7 X 10 INCHES KEUFFEL & ESSER CO. MADE IN U.S.A.
46 0700


4
6*
new dessicant
3
8* dessicant clog - changed to new one.
2
10*
1
BLANK
Hg Analysis 10-7-86 JMH
PERKIN-ELMER
CHART 159

422

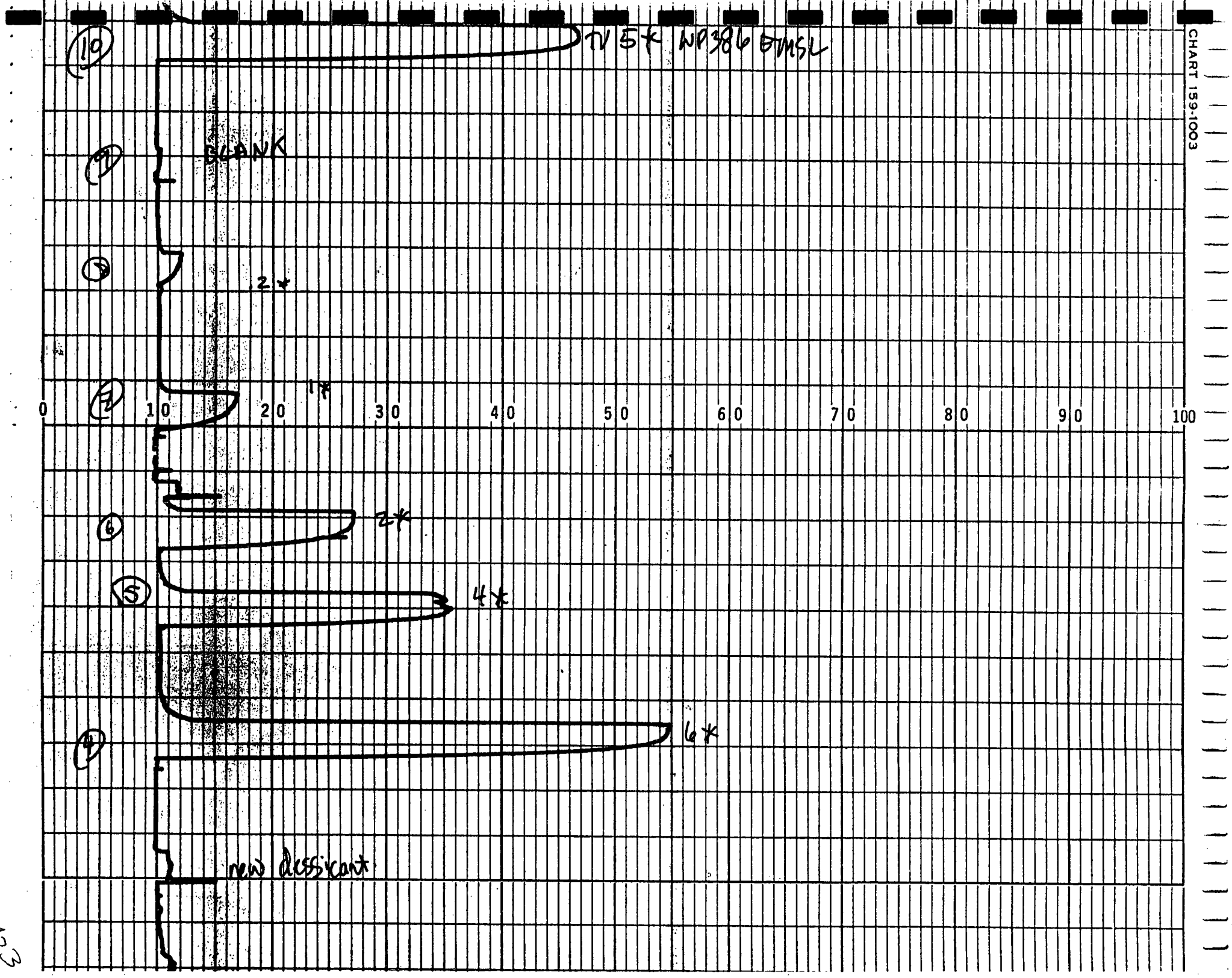
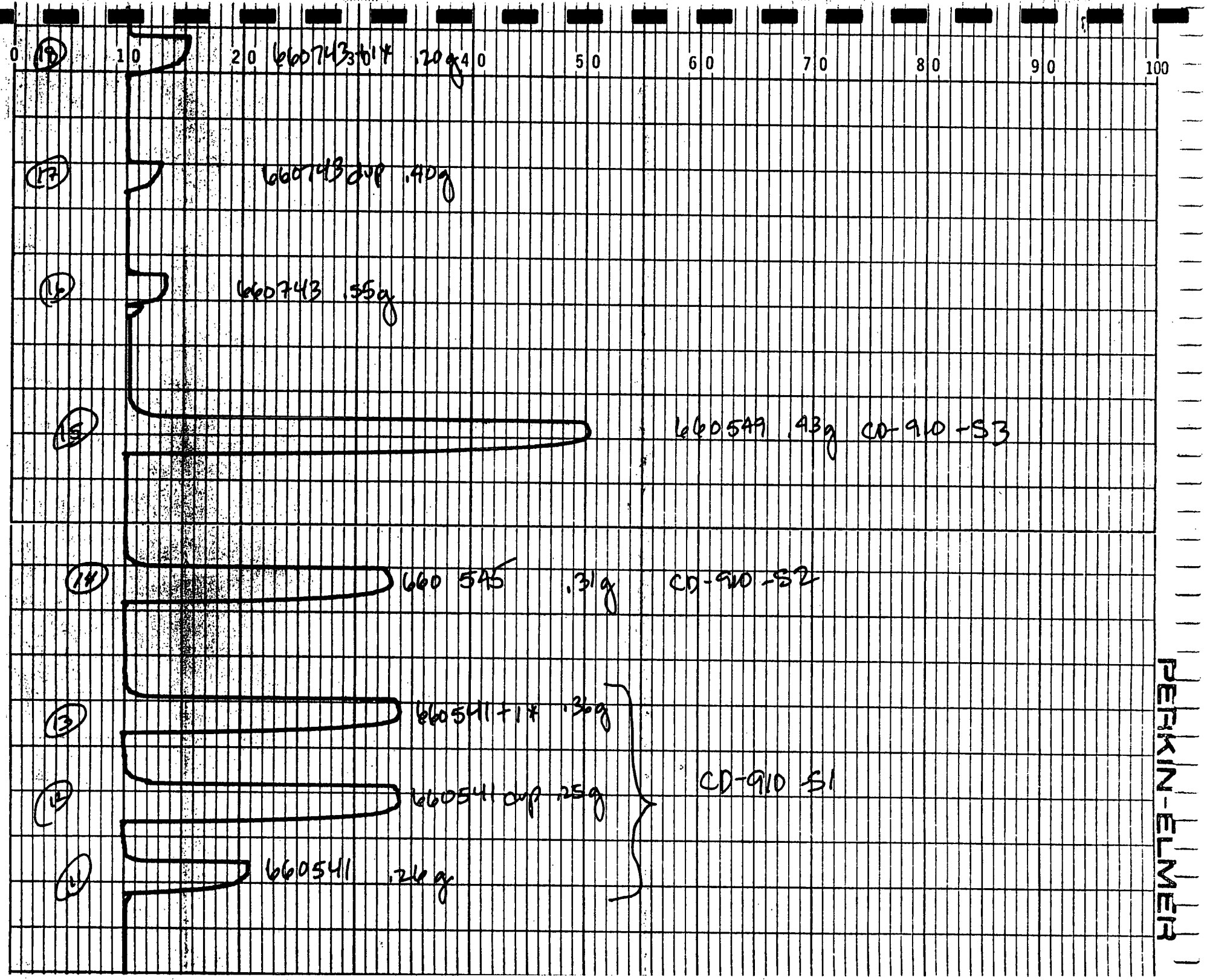
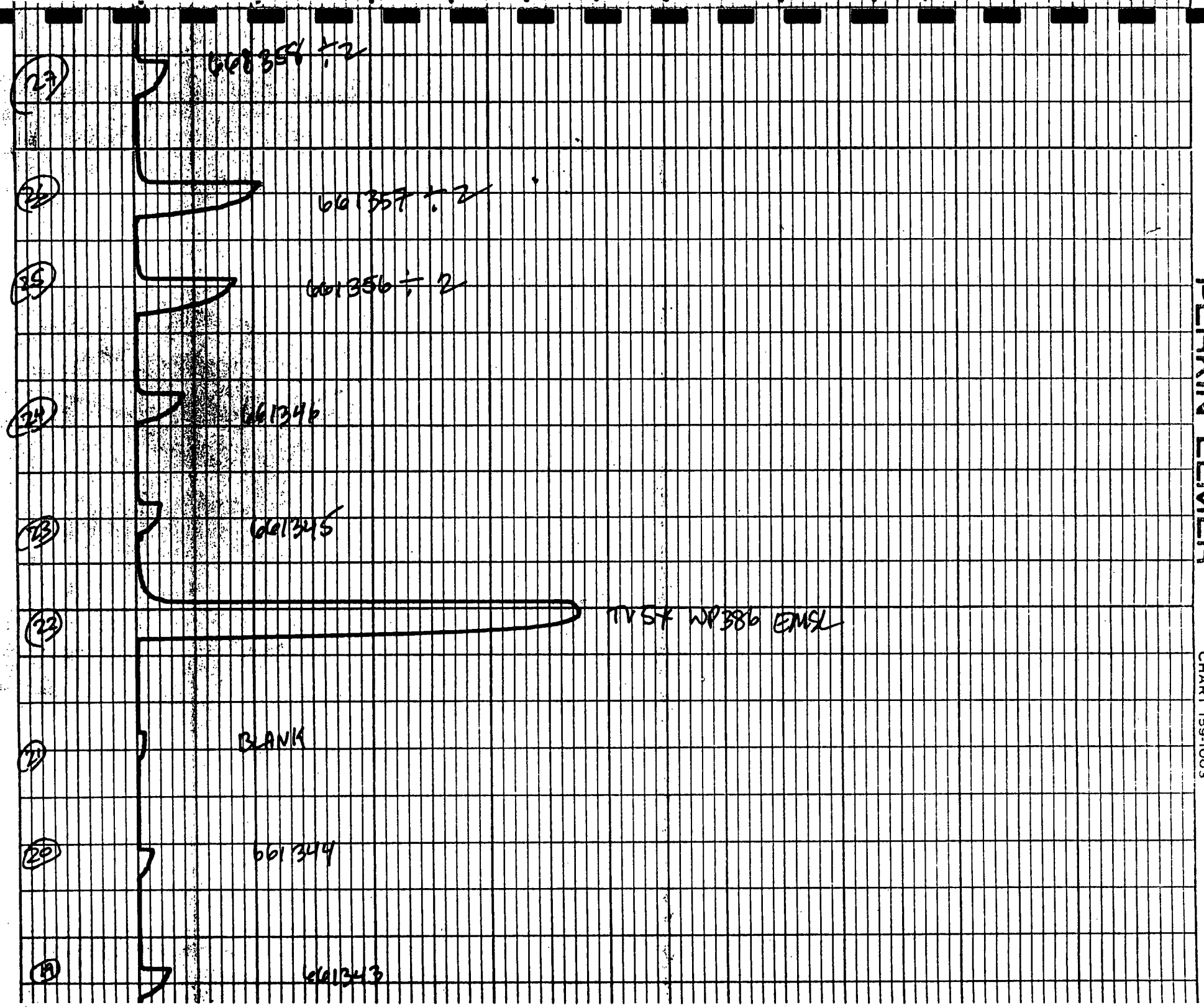


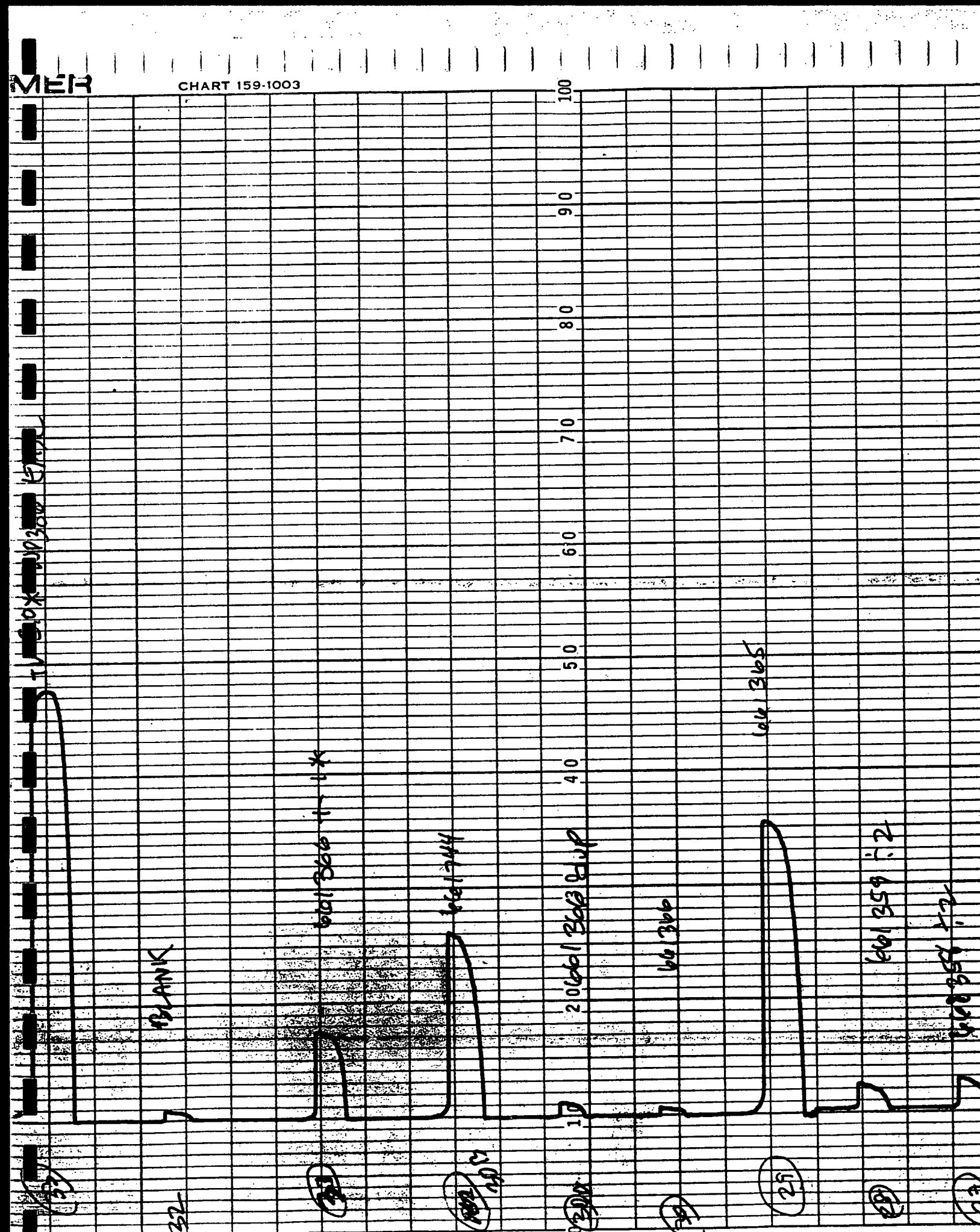
CHART 159-1003
10
TV 5* WP386 EMSL
9
BLANK
8
2*
7
1*
0
10
20
30
40
50
60
70
80
90
100
6
2*
5
4*
4
6*
new dessicant

423



0
10
20
40
50
60
70
80
90
100
18
660743+1* .20g
17
660743 dup .40g
16
660743 .55g
15
660549 .43g CD-910-S3
14
660 545 .31g CD-910-S2
13
660541+1* .36g
12
660541 dup .25g
11
660541 .26g
CD-910-S1
PERKIN-ELMER


PERKIN-ELMER
CHART 159-1003
(19) 661343
(20) 661344
(21) BLANK
(22) TVSK WP386 EMSL
(23) 661345
(24) 661346
(25) 661356 ÷ 2
(26) 661357 ÷ 2
(27) 660354 ÷ 2


MER
CHART 159-1003
100
90
80
70
60
50
40
20
10
BLANK
661366 + 1*
661744
661366 dup
661366
661365
661359 ÷ 2
32
29

Tray No._____ Test Hg Date [illegible]

Analyst JMH

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	Blank				
2	.01				
3	.008				
4	.006				
5	.004				
6	.002				
7	.001				
8	.0002				
9	Blank				DEP # ↓
10	WP386	4.8 *		96% rec.	True value 5.0 *
11	660533	.24 mg/kg		445g 0.6/4.45 ÷ .50 =	CD 910 - SED 1
12	↓ 537	0.1 U		2.0gm .11/2.0 ÷ .70	CD 910 - SED 2 < .1 mg/kg
13	↓ 541	dilute			CD 910 - S1
14	dup 541				
15	+1 541				
16	660 545	DILUTE			CD 910 - S2
17	↓ 549	DILUTE			CD 910 - S3
18	↓ 553	<0.2 *			CD 910 - SW 1
19	↓ 557	↓	RPD NC		CD 910 SW2 / SW2Q
20	dup 557	↓			
21	+1 557	1.05	105% rec		
22	Blank	—			
23	660561	<0.2 *			CD 910 - TB
24	660 565	<0.2 *			CD 910 - FB
25	WP386/1*	1.0 *	100% rec		opened carbon cell by mistake on EMSL true value 5.0 * Soran a 1.0 * STD
26	660882	<0.2 *			MW - 1
27	↓ 886	↓			MW - 2A
28	↓ 890	↓			MW - 5
29	↓ 894	↓			MW - 6
30	↓ 898	↓			DUP - 1

Tray No. _____ Test Hg Date _____

Analyst JMH

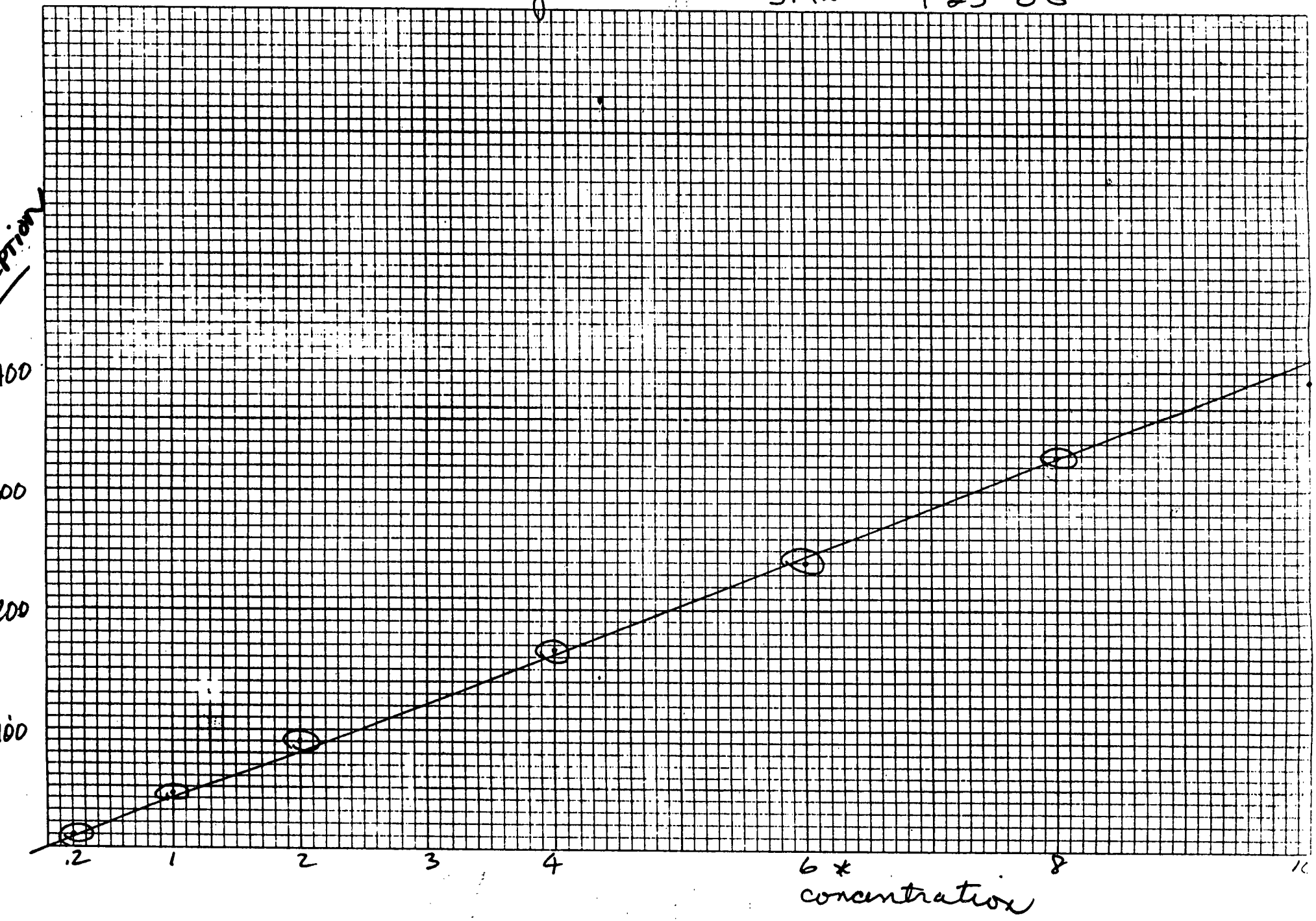
Cup	Lab No.	Result**	dil. fact.	abs.	notes
31	660902	<0.2 *			TB-1
32	906				FB-1
33	910				SW-1
34	914				SW-2
35	918				LMH-1
36	922		RPD NC		
37	dup 922				MW-3
38	+1 922	1.05 *	105% rec		
39	WP386	4.8 *	96% rec		TV 5*
40	660926	<0.2*			TB-2
41	930				FB-2
42	8820				MW-1
43	8860				MW-2A
44	8900				MW-5
45	BLANK				—
46	660894D				MW-6
47	898D				DUP-1
48	906D				FB-1
49	910D		RPD NC		SW-1
50	dup 910D				
51	+1 910D	1.10	110% rec		
52	WP386	4.8 *	96% rec		TV 5*
53	660914D	<0.2 *			SW-2
54	918D				LMH-1
55	922D				MW-3
56	930D				FB-2
57	BLANK				
28					
29					
30					

JMH

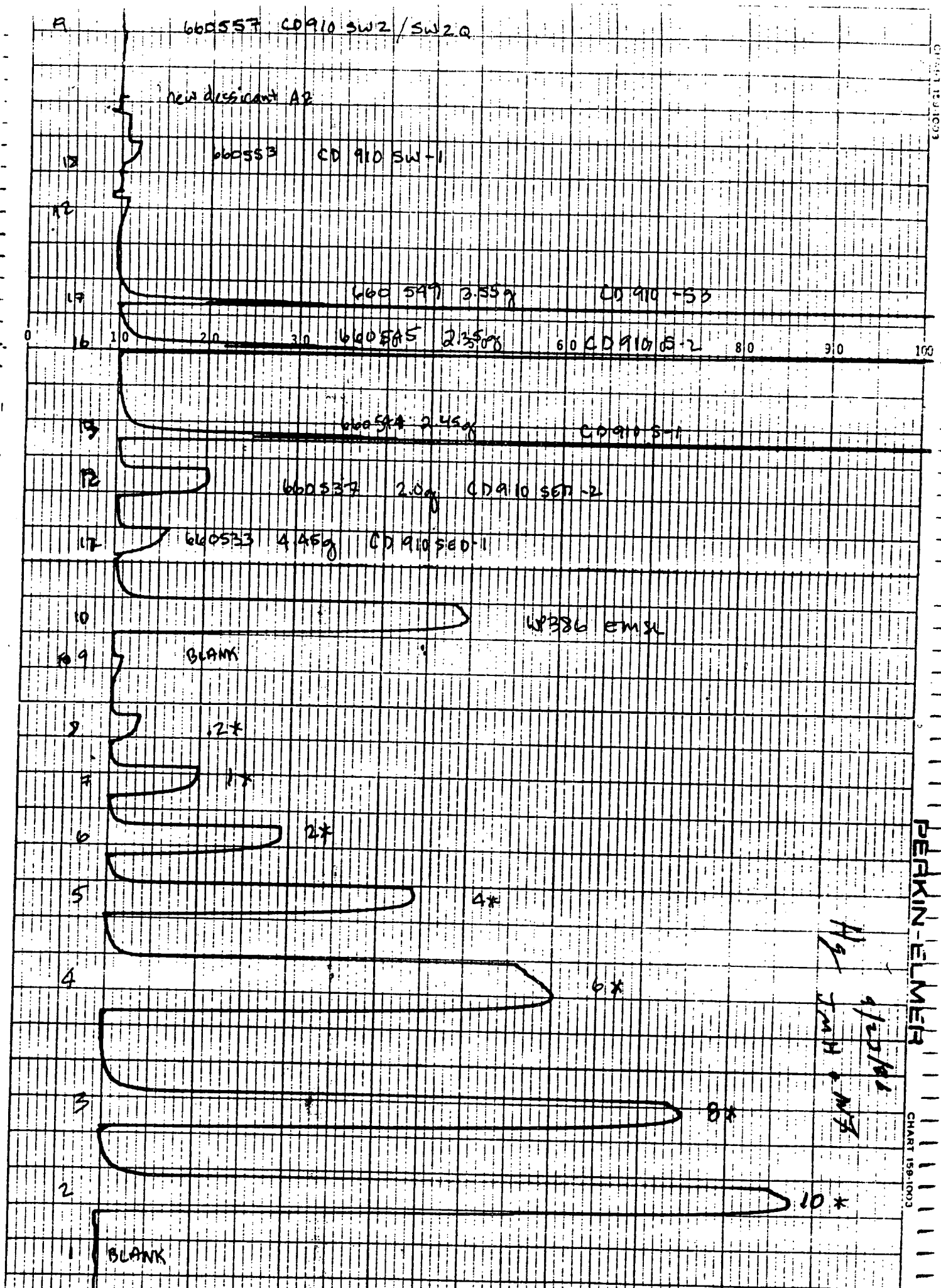
Hg 9/23/86

1	0.002
2	0.394
3	0.331
4	0.241
5	0.178
6	0.102
7	0.056
8	0.022
9	0.011
10	0.206
11	0.035
12	0.057
18	0.012 -9
19	0.004
20	0.003
21	0.048
22	0.005
23	0.004
24	0.002
25	0.071 ≡MSL
25	0.046 1.0%
26	0.005
27	0.004
28	0.003
29	0.003
30	0.005
31	0.004
32	0.006
33	0.004
34	0.006
35	0.006
36	0.005
37	0.005
38	0.048
39	0.197
40	0.007
41	0.006
42	0.007
43	0.011
44	0.007
45	0.004
46	0.007
47	0.006
48	0.006
49	0.007
50	0.007
51	0.050
52	0.200
53	0.010
54	0.011
55	0.007
56	0.005
57	0.004

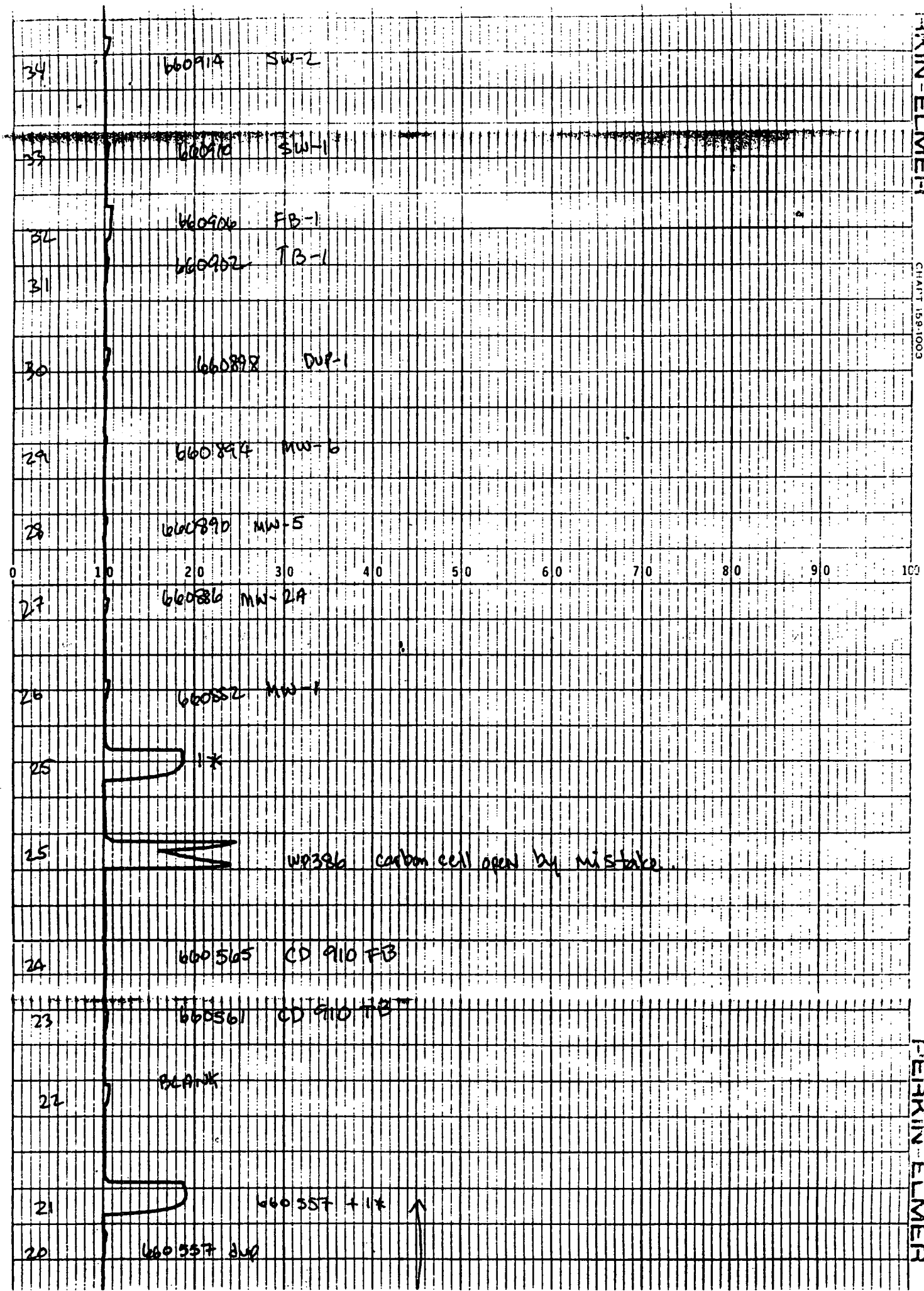
Hg JMH 9-23-86



K+E 10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.
46 0700

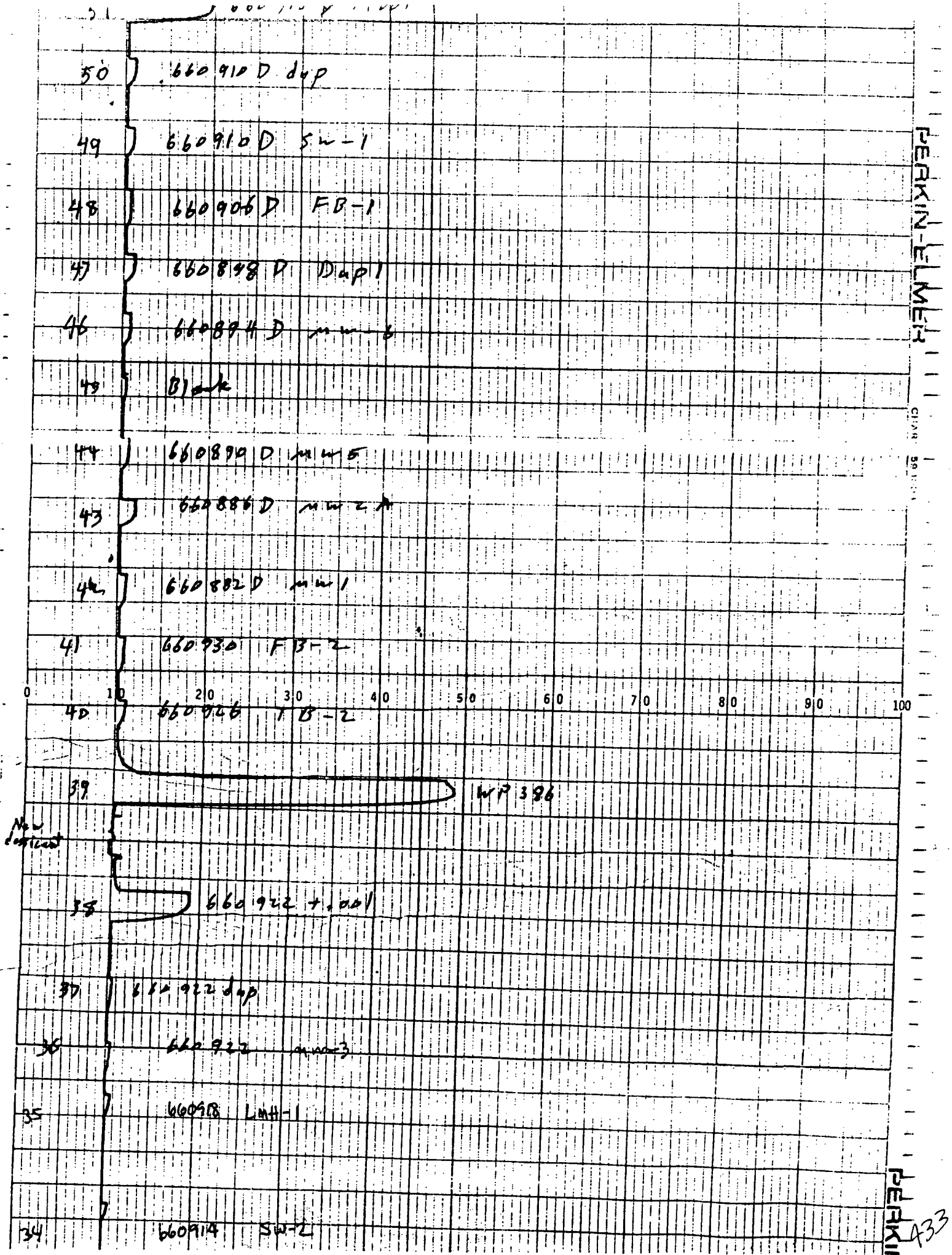

660557 CD910 SW2/SW2Q
new dessicant A2
660553 CD 910 SW-1
660597 3.55g CD 910 -S3
660545 2.35g CD910 S-2
660544 2.45g CD910 S-1
660537 2.0g CD910 SED-2
660533 4.45g CD910 SED-1
48386 EMSL
BLANK
12*
11*
2*
4*
6*
8*
10*
BLANK
PERKIN-ELMER
CHART 159-1003

43

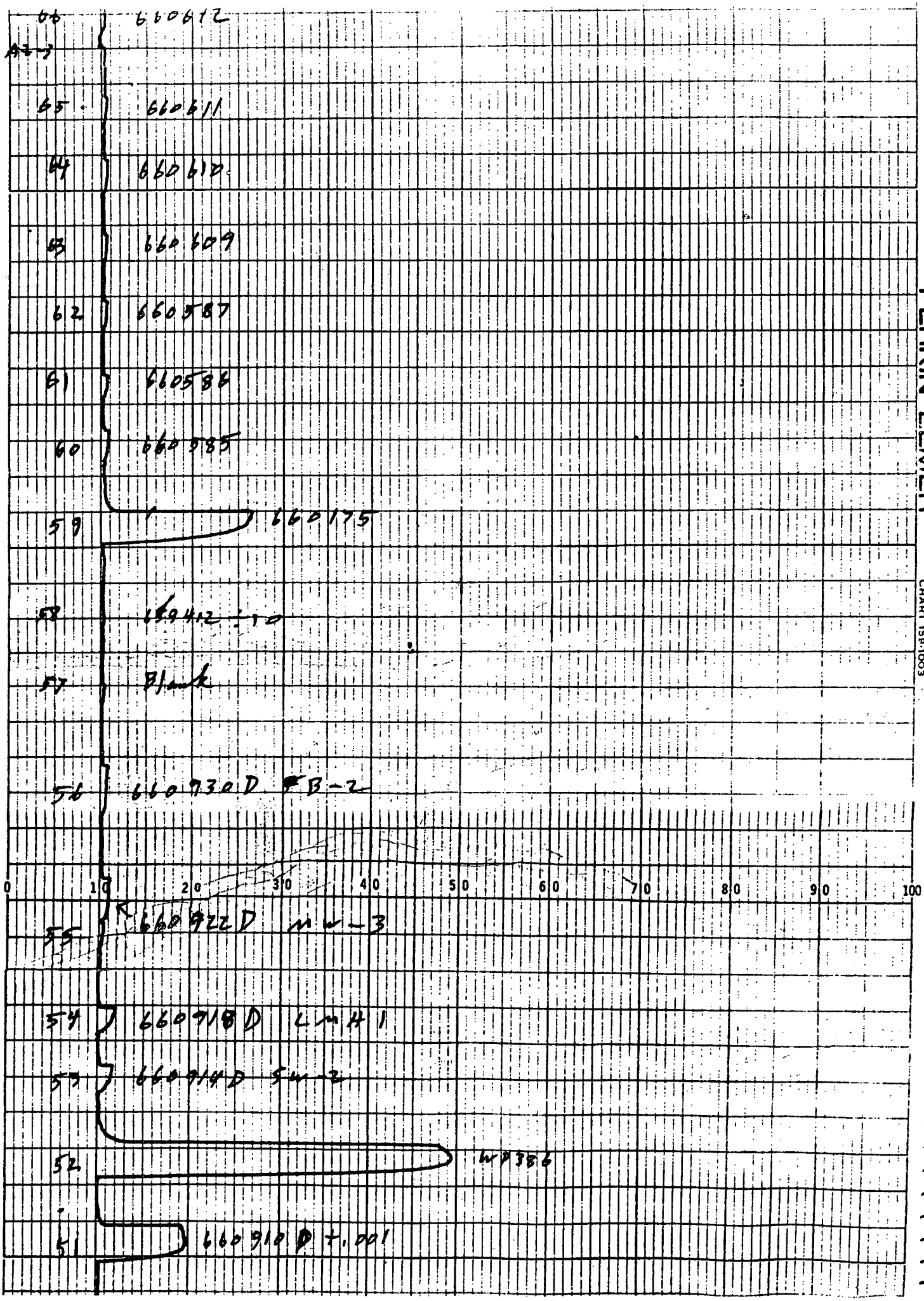


PERKIN-ELMER
CHART 158-1003
PERKIN-ELMER

A3



50 660910 D dup
49 660910 D SW-1
48 660906 D FB-1
47 660898 D Dup 1
46 660894 D MW-6
45 Blank
44 660890 D MW 5
43 660886 D MW 2 A
42 660882 D MW 1
41 660930 FB-2
40 660926 TB-2
39 WP 386
New desiccant
38 660922 +.001
37 660922 dup
36 660922 MW-3
35 660918 LMH-1
34 660914 SW-2
0 10 20 30 40 50 60 70 80 90 100
PERKIN-ELMER
PERKIN


66 660612
65 660611
64 660610
63 660609
62 660587
61 660586
60 660585
59 660175
58 659412 : 10
57 Blank
56 660730D FB-2
0 10 20 30 40 50 60 70 80 90 100
55 660922D MW-3
54 660918D LMH 1
53 660914D SW-2
52 WP386
51 660910D +.001
PERKIN-ELMER
CHART 159-1003

DATE 9-30-86

TEST CODE Zn ANALYST JMH

LAB NO.	RESULT	
6605 33	745	mg/kg
537	195	
541	450	
545	64.3	
549	1800	
553	197	*
557	~~22~~ 21	
561	<20	
565	<20	

DATE 9-30-86

TEST CODE Ag

ANALYST JMH

LAB NO.	RESULT
660533	~~[illegible]~~ 3.6 mg/kg
537	2.0
541	12.4
545	2.4
549	11.1
553	<10 *
557	↓ ↓
561	↓ ↓
565	↓ ↓

436

DATE 9-30-86

TEST CODE Ni ANALYST JMH

LAB NO.	RESULT	
6605 33	142	mg/kg
537	37.8	↓
541	59.7	↓
545	16.3	↓
549	589	↓
553	<40	*
557	↓	↓
561	↓	↓
565	↓	↓

DATE 9-30-86

TEST CODE Cu ANALYST JMH

LAB NO.	RESULT	
6600533	427	mg/kg
537	75.5	↓
541	235	↓
545	62.4	↓
549	1600	↓
553	80	*
557	25	↓
561	<25	↓
565	<25	↓

DATE 9-30-86

TEST CODE Cr ANALYST JMH

LAB NO.	RESULT	
660533	82.5	mg/kg
537	25.2	↓
541	81.0	↓
545	15.1	↓
549	242	↓
553	12	*
557	< 10	↓
561	↓	↓
565	↓	↓

DATE 9-30-86

TEST CODE Cd ANALYST JMH

LAB NO.	RESULT	
6600533	33.9	mg/kg
537	8.6	↓
541	20.3	↓
545	3.2	↓
549	55.3	↓
553	9	*
557	< 5	↓
561	↓	↓
565	↓	↓

44C

DATE 9-30-86

TEST CODE Be ANALYST JMH

LAB NO.	RESULT
660533	20.0 mg/kg
537	2.3
541	4.1
545	1.1
549	2.9
553	<5 *
557	
561	
565	

DATE 9-30-86

TEST CODE Sb

ANALYST JMH

LAB NO.	RESULT	
6060533	~~62.83~~ 62.8	mg/kg dry
537	~~<17.16~~ <17.2	
541	~~30.51~~ 30.5	
545	~~<12.90~~ <12.9	
549	~~30.41~~ 30.4	
553	<60	ug/l or *
557		
561		
565		

442

Zero Calibration I

F 1 Number of Steps to Zero Order 97400
Setup/Edit Task Files 09-26-1986 @ 10:41:27 -- I

F 2 Reference Wavelength 255.431

F 3 PMT Setting 10
Y

F 4 Range for Wavelength Scan .06

F 5 Integration Time .1

F 6 Save Current Answers as Default

F 7 Perform Zero Order Calibration ZERO SETTING COMPLETED.

F 9 Concise 'Help'

F 10 Return to Previous Menu

CHECKING REFERENCE WAVELENGTH . . . 355.3946 355.3945 355.3943
REFERENCE POSITION = -0.0365
Press 'ESCape' to Continue ...
|ICPOPS:ZEROCAL: |TASK: NJDEP | 9/26/86 @ 11:10|

443

Statistics For Fitted Curve 09-26-1986 @ 11:30:08 -- 2

Results For SB 206.833

	Low Intensity	High Intensity	Intercept	Slope	Curvature
Curve 1	596	11334	-0.55032	0.00092	0.00000

Standard	Intensity	Concen.	Calc. Con.	Con. Error	% Error	Order
1	596	0.000	-0.004	-0.004		1
2	11334	10.000	9.846	-0.154	-1.54	1
3	1727	1.000	1.034	0.034	3.39	1
4	Not in Standard					
5	Not in Standard					

The RMS Error is 2.629%

Results For BE 234.861

	Low Intensity	High Intensity	Intercept	Slope	Curvature
Curve 1	203	26159	-0.00771	0.00004	0.00000

Standard	Intensity	Concen.	Calc. Con.	Con. Error	% Error	Order
1	203	0.000	0.000	0.000		1
2	Not in Standard					
3	Not in Standard					
4	26159	1.000	0.985	-0.015	-1.47	1
5	2883	0.100	0.102	0.002	1.73	1

The RMS Error is 1.604%

Results For CD 214.438

	Low Intensity	High Intensity	Intercept	Slope	Curvature
Curve 1	269	13604	-0.05948	0.00022	0.00000

Standard	Intensity	Concen.	Calc. Con.	Con. Error	% Error	Order
1	269	0.000	0.000	0.000		1
2	Not in Standard					
3	Not in Standard					

For Fitted Curve 09-26-1986 @ 11:30:25 -- 3 2 -- 4

13604	3.000	2.938	-0.062	-2.07	1	
1672	0.300	0.309	0.009	2.97	1	

or is 2.561%

Order
1
1
1

Results For CR 205.552

w Intensity	High Intensity	Intercept	Slope	Curvature
385	10294	-0.11546	0.00030	0.00000

Intensity	Concen.	Calc. Con.	Con. Error	% Error	Order
385	0.000	-0.001	-0.001		1
n Standard					
n Standard					
10294	3.000	2.958	-0.042	-1.40	1
1417	0.300	0.308	0.008	2.54	1

on is 2.051%

re
--
.00000

Order
1
1
1

Results For CU 324.754

w Intensity	High Intensity	Intercept	Slope	Curvature
443	13085	-0.10309	0.00023	0.00000

Intensity	Concen.	Calc. Con.	Con. Error	% Error	Order
443	0.000	-0.001	-0.001		1
n Standard					
n Standard					
13085	3.000	2.919	-0.081	-2.69	1
1807	0.300	0.314	0.014	4.76	1

co is 3.868%

re
--
.00000

Order
1
1
1

Results For NI 231.604

w Intensity	High Intensity	Intercept	Slope	Curvature
887	11798	-0.24242	0.00027	0.00000

	Low Intensity	High Intensity	Intercept	Slope	Curvature
Curve 1	327	5080	-0.68470	0.00208	0.00000

Standard	Intensity	Concen.	Calc. Con.	Con. Error	% Error	Order
1	327	0.000	-0.004	-0.004		1
2	Not in Standard					
3	Not in Standard					
4	5080	10.000	9.893	-0.107	-1.07	1
5	822	1.000	1.027	0.027	2.69	1

The RMS Error is 2.046%

Results For AS 193.759

	Low Intensity	High Intensity	Intercept	Slope	Curvature
Curve 1	573	5912	-1.07109	0.00185	0.00000

Standard	Intensity	Concen.	Calc. Con.	Con. Error	% Error	Order
1	573	0.000	-0.009	-0.009		1
2	Not in Standard					
3	Not in Standard					
4	5912	10.000	9.889	-0.111	-1.11	1
5	1138	1.000	1.039	0.039	3.87	1

The RMS Error is 2.846%

Results For SE 196.090

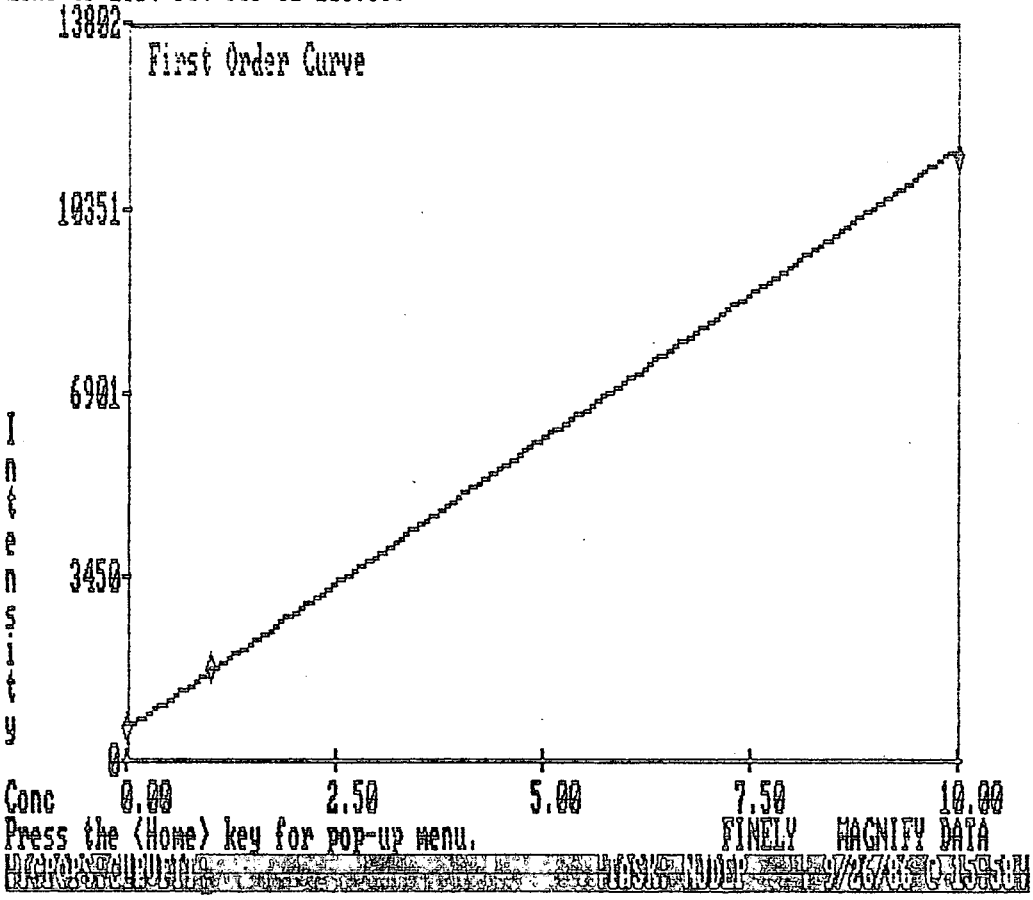
	Low Intensity	High Intensity	Intercept	Slope	Curvature
Curve 1	536	3218	-1.00391	0.00184	0.00000

Standard	Intensity	Concen.	Calc. Con.	Con. Error	% Error	Order
1	536	0.000	-0.018	-0.018		1
2	Not in Standard					
3	Not in Standard					
4	3218	5.000	4.918	-0.082	-1.64	1
5	844	0.500	0.549	0.049	9.84	1

Statistics For Fitted Curve 09-26-1986 @ 11:31:17 --.6

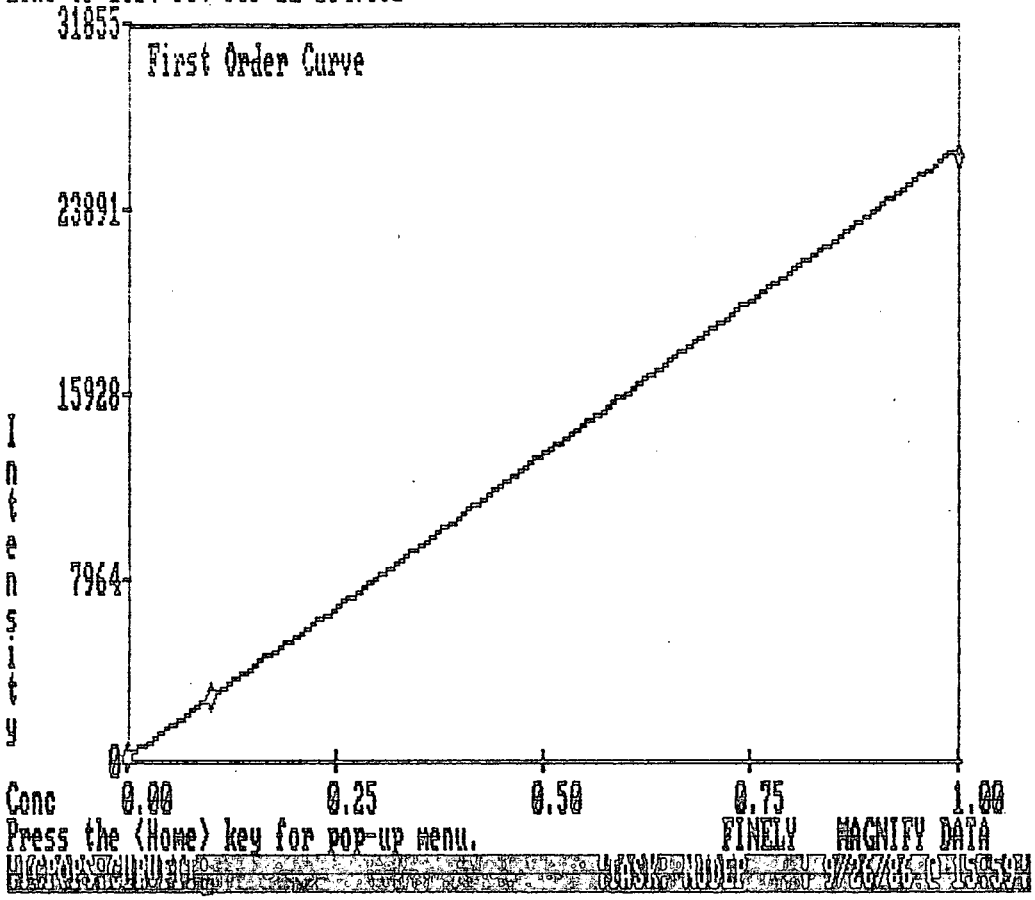
The RMS Error is 7.056%

Line Of Best Fit for SB 206.033

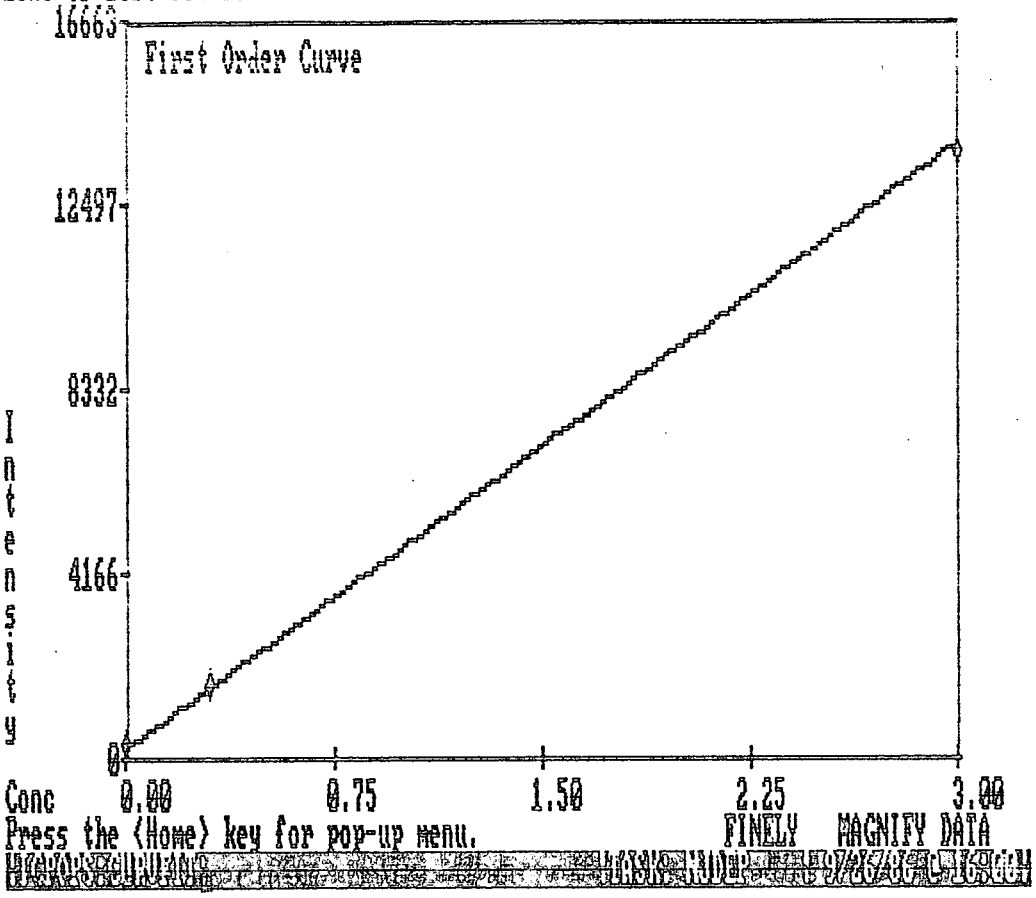


448

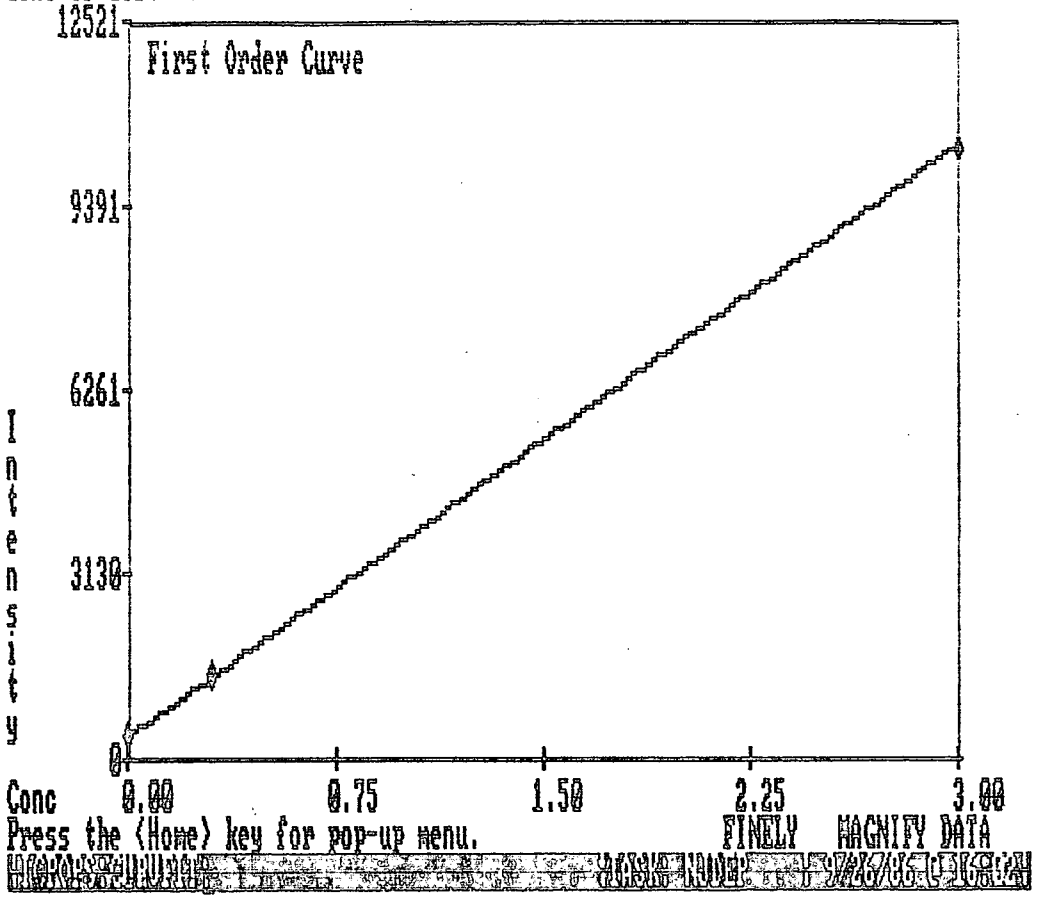
Line Of Best Fit for BE 234.061



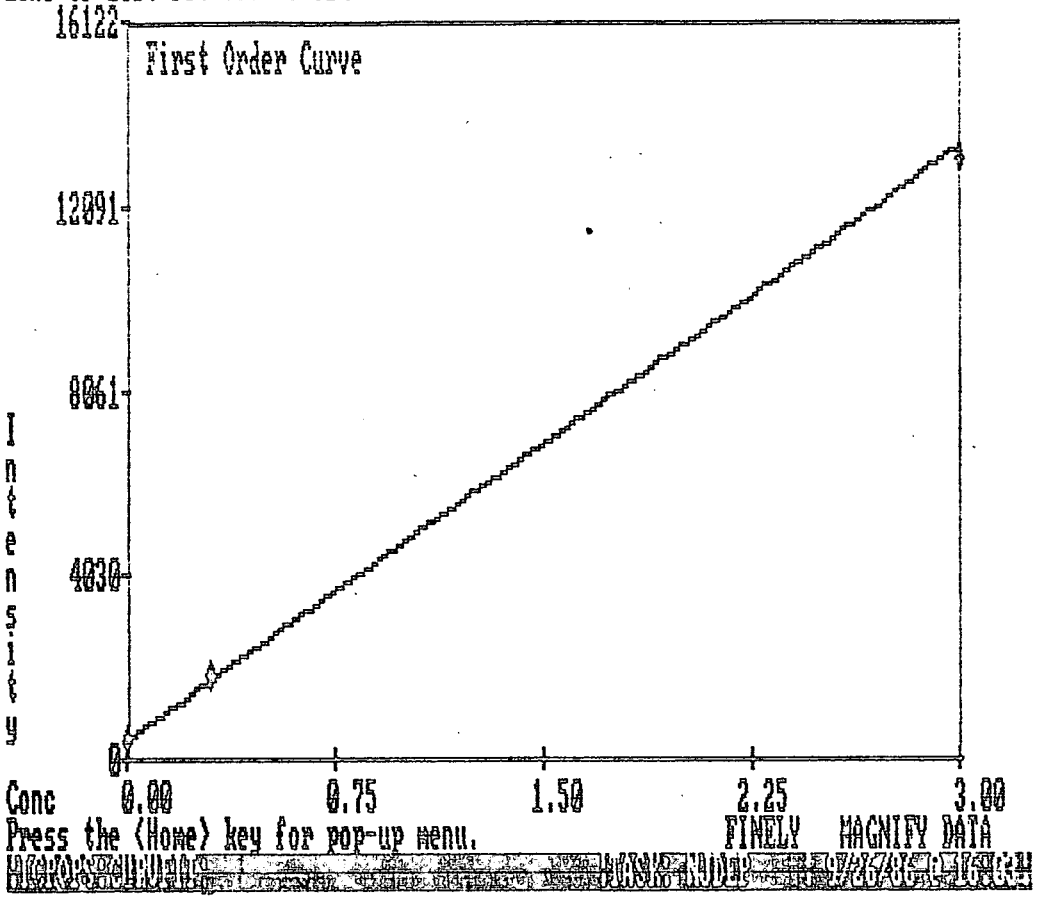
Line Of Best Fit for CD 214.438



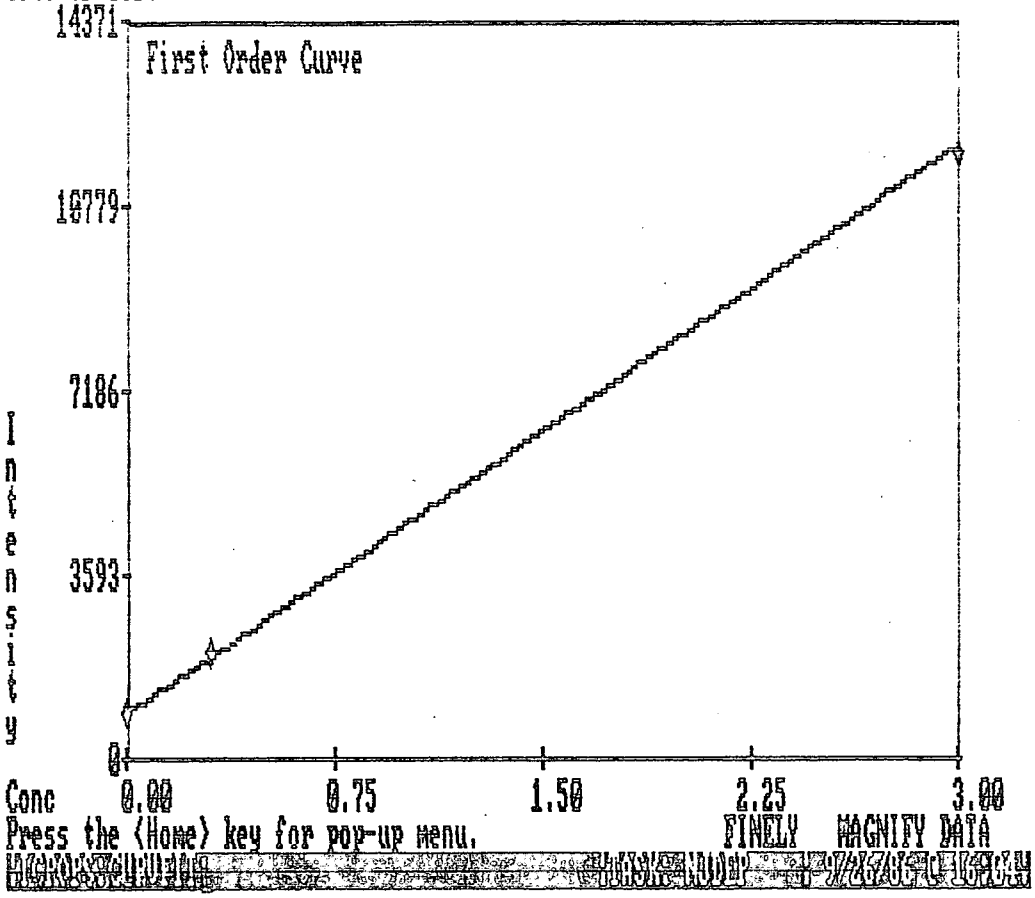
Line Of Best Fit for CR 205.552



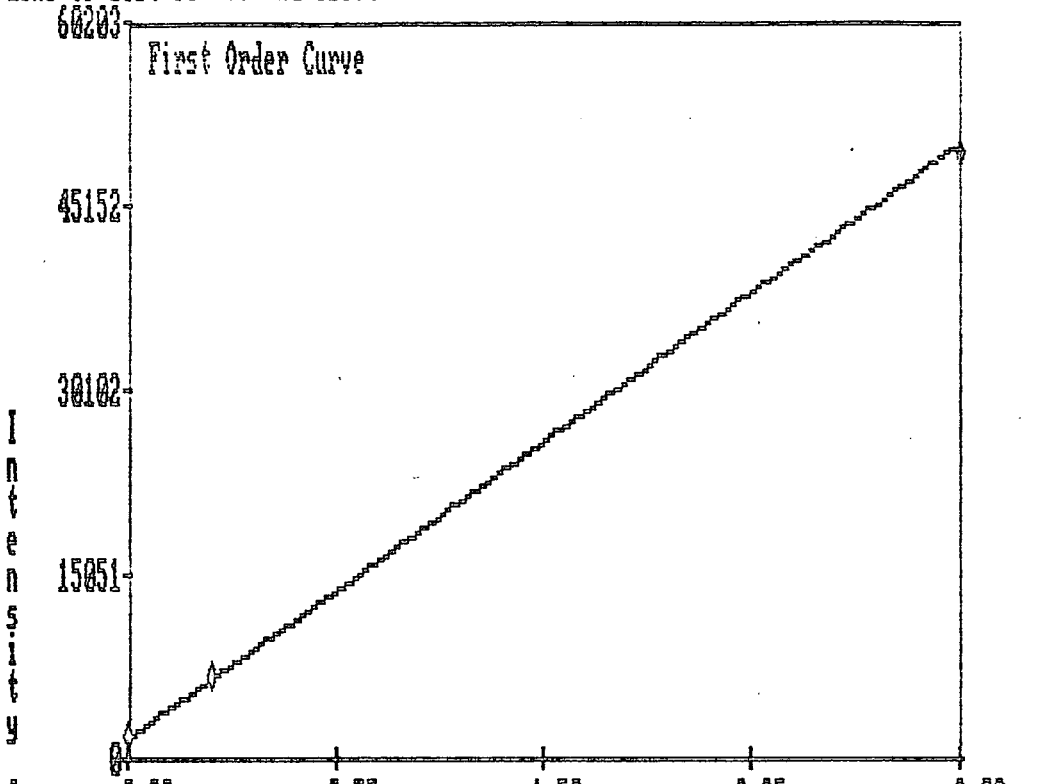
Line Of Best Fit for CU 324.754



Line Of Best Fit for NI 231.604

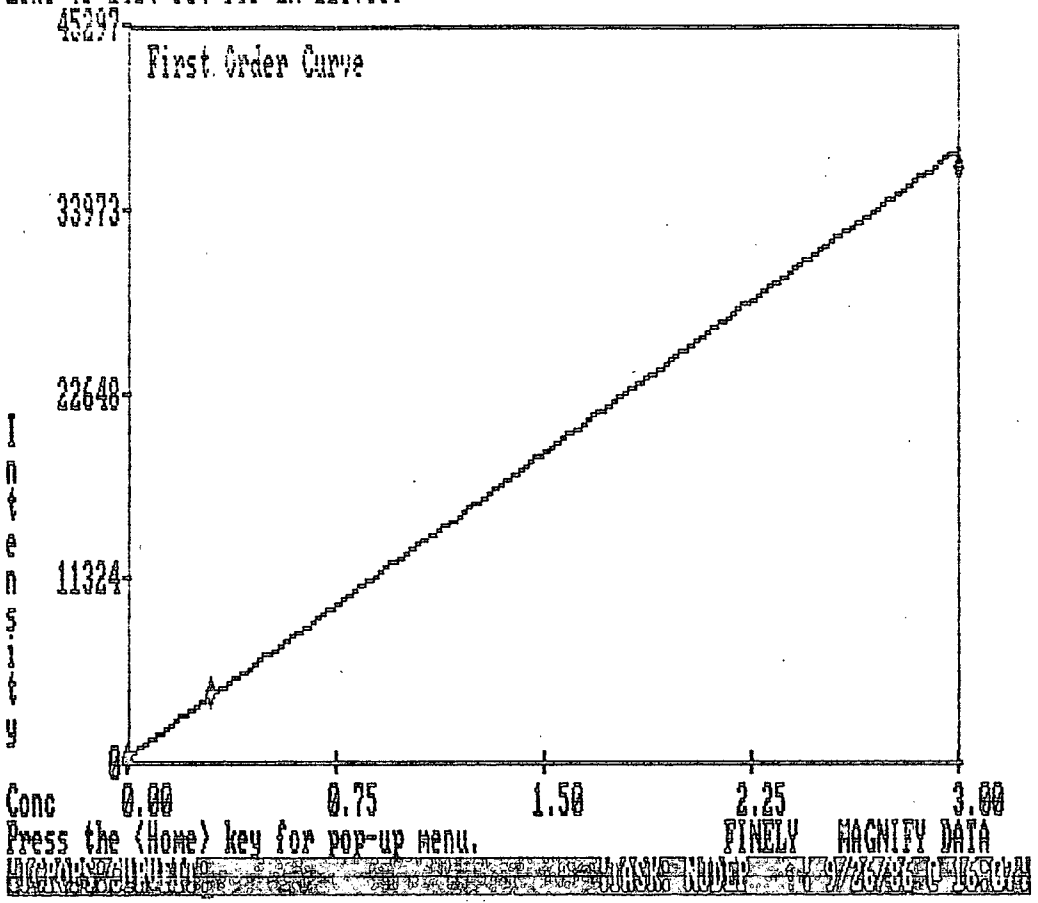


Line Of Best Fit for AG 328.068

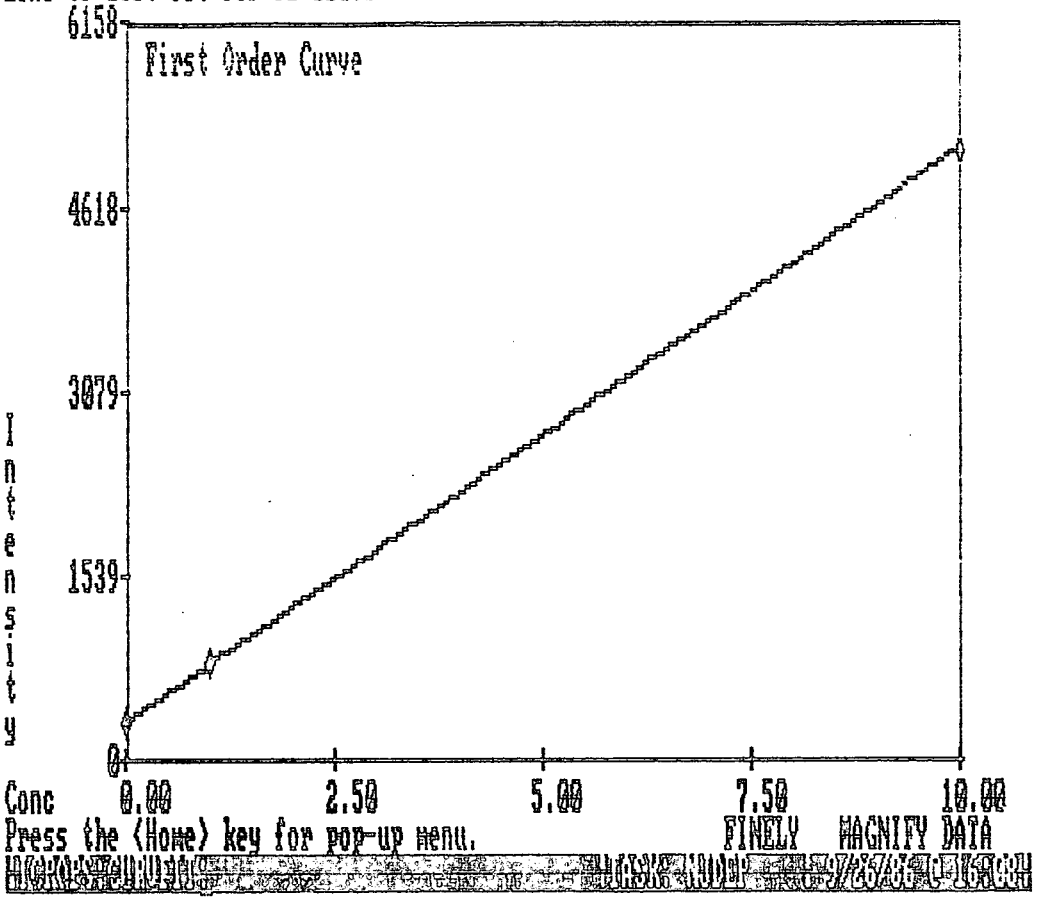


Press the <Home> key for pop-up menu. FINELY MAGNIFY DATA

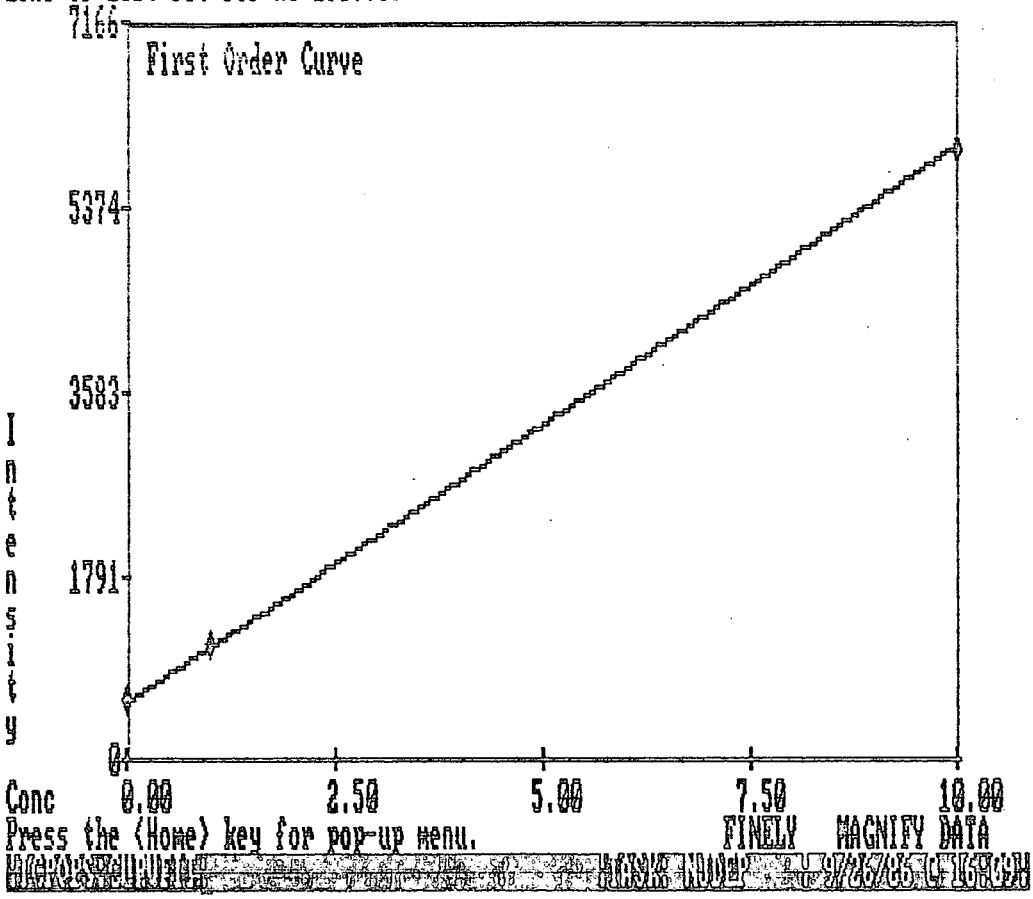
Line Of Best Fit for ZN 213.856



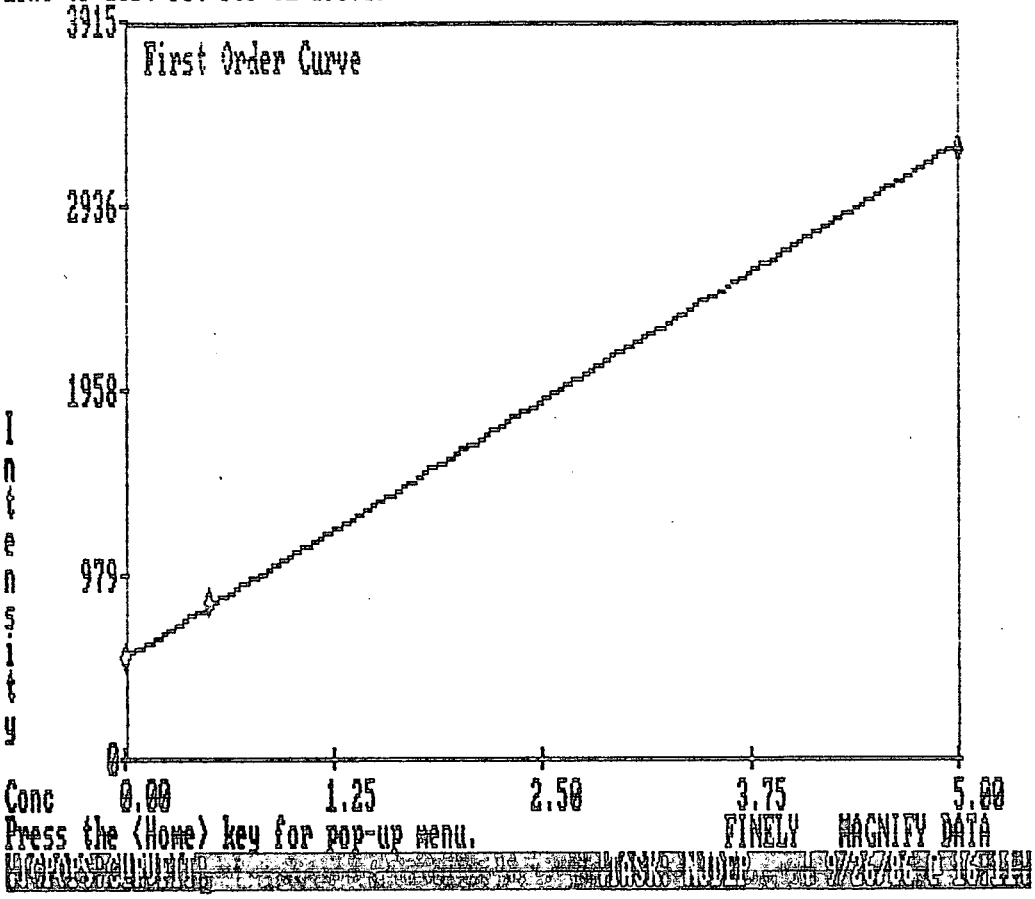
Line Of Best Fit for PB 220.353



Line Of Best Fit for AS 193.759



Line Of Best Fit for SE 196.000



Test Of Precision And Repeatabilities 09-26-1986 @ 11:35:57 -- 1

interference standard

interference standard

Begin Analysis - Sample Number 1 - Replication 1

Ele. Sym.	Wave-length	Peak Position	Peak Intensity	Net Peak Intensity
AS	193.759	-0.0001	1259	1259
SE	196.09	0.0010	929	929
CR	205.552	0.0002	1362	1362
SB	206.833	0.0006	1737	1737
ZN	213.856	0.0006	4136	4136
CD	214.438	0.0004	1650	1650
PB	220.353	0.0000	827	827
NI	231.604	0.0003	1966	1966
BE	234.861	-0.0001	2931	2931
CU	324.754	0.0003	1677	1677
AG	328.068	0.0002	5826	5826

Elem. Sym.	Wave-length	Net Peak Intensity
09-26-1986	11:40:06	
SB	206.833	1737
BE	234.861	2931
CD	214.438	1650
CR	205.552	1362
CU	324.754	1677
NI	231.604	1966
AG	328.068	5826
ZN	213.856	4136
PB	220.353	827
AS	193.759	1259
SE	196.09	929

Begin Analysis - Sample Number 1 - Replication 2

Ele. Sym.	Wave-length	Peak Position	Peak Intensity	Net Peak Intensity
AS	193.759	0.0005	1258	1258
SE	196.09	0.0005	925	925

CR	205.552	0.0000	1377	1377
SB	206.833	0.0004	1725	1725
ZN	213.856	0.0002	4116	4116
CD	214.438	0.0005	1655	1655
PB	220.353	-0.0005	830	830
NI	231.604	0.0002	2038	2038
BE	234.861	-0.0004	2936	2936
CU	324.754	0.0003	1671	1671
AG	328.068	0.0003	5803	5803

Elem. Sym.	Wave-length	Net Peak Intensity
09-26-1986	11:43:07	
SB	206.833	1725
BE	234.861	2936
CD	214.438	1655
CR	205.552	1377
CU	324.754	1671
NI	231.604	2038
AG	328.068	5803
ZN	213.856	4116
PB	220.353	830
AS	193.759	1258
SE	196.09	925

Begin Analysis - Sample Number 1 - Replication 3

Ele. Sym.	Wave-length	Peak Position	Peak Intensity	Net Peak Intensity
AS	193.759	-0.0002	1351	1351
SE	196.09	0.0011	911	911
CR	205.552	0.0002	1370	1370
SB	206.833	0.0008	1730	1730
ZN	213.856	0.0003	4202	4202
CD	214.438	0.0006	1669	1669
PB	220.353	0.0000	839	839
NI	231.604	0.0001	2050	2050
BE	234.861	-0.0004	2923	2923
CU	324.754	0.0002	1668	1668
AG	328.068	0.0001	5750	5750

Elem. Sym.	Wave-length	Net Peak Intensity
09-26-1986	11:46:07	
SB	206.833	1730

BE	234.861	2923
CD	214.438	1669
CR	205.552	1370
CU	324.754	1668
NI	231.604	2050
AG	328.068	5750
ZN	213.856	4202
PB	220.353	839
AS	193.759	1351
SE	196.09	911

Begin Analysis - Sample Number 1 - Replication 4

Ele. Sym.	Wave-length	Peak Position	Peak Intensity	Net Peak Intensity
AS	193.759	-0.0002	1351	1351
SE	196.09	0.0001	921	921
CR	205.552	0.0000	1375	1375
SB	206.833	0.0007	1761	1761
ZN	213.856	0.0004	4173	4173
CD	214.438	0.0006	1668	1668
PB	220.353	-0.0003	829	829
NI	231.604	0.0003	2073	2073
BE	234.861	-0.0001	2881	2881
CU	324.754	0.0004	1667	1667
AG	328.068	0.0004	5733	5733

Elem. Sym.	Wave-length	Net Peak Intensity
09-26-1986	11:49:08	
SB	206.833	1761
BE	234.861	2881
CD	214.438	1668
CR	205.552	1375
CU	324.754	1667
NI	231.604	2073
AG	328.068	5733
ZN	213.856	4173
PB	220.353	829
AS	193.759	1351
SE	196.09	921

Begin Analysis - Sample Number 1 - Replication 5

Ele.	Wave-	Peak	Peak	Net Peak

INTERFERENCE CHECK

9-29-86
JMH

AS	193.759	-0.0011	1153	1153
SE	196.09	No Peak!	834	834
CR	205.552	-0.0007	1260	1260
SB	206.833	-0.0012	533	533
ZN	213.856	-0.0003	3615	3615
CD	214.438	-0.0004	1464	1464
PB	220.353	-0.0010	794	794
NI	231.604	-0.0008	895	895
BE	234.861	-0.0009	2632	2632
CU	324.754	-0.0006	1516	1516
AG	328.068	-0.0001	1580	1580

Calculating Concentrations for Sample Number 3

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction TV	% rec	Net Concentration
SB	206.833	533	1.061	1.0	1.06	1.061
BE	234.861	2632	0.102	.10	102	0.102
CD	214.438	1464	0.313	0.30	104	0.313
CR	205.552	1260	0.302	.30	100	0.302
CU	324.754	1516	0.288	.30	96	0.288
NI	231.604	895	0.300	.30	100	0.300
AG	328.068	1580	0.261	.30	87	0.261
ZN	213.856	3615	0.297	.30	99	0.297
PB	220.353	794	~~1.161~~			1.161
AS	193.759	1153	~~1.305~~			1.305
SE	196.09	834	~~0.872~~		±20% range	0.672

Test Of Precision And Repeatabilities 09-26-1986 @ 11:49:11 -- 4

Sym.	length	Position	Intensity	Intensity
AS	193.759	0.0002	1303	1303
SE	196.09	-0.0001	907	907
CR	205.552	0.0003	1396	1396
SB	206.833	0.0003	1718	1718
ZN	213.856	0.0003	4285	4285
CD	214.438	0.0004	1670	1670
PB	220.353	-0.0002	832	832
NI	231.604	0.0001	2083	2083
BE	234.861	-0.0004	2899	2899
CU	324.754	0.0002	1659	1659
AG	328.068	0.0004	5731	5731

Elem. Sym.	Wave-length	Net Peak Intensity
09-26-1986	11:52:08	
SB	206.833	1718
BE	234.861	2899
CD	214.438	1670
CR	205.552	1396
CU	324.754	1659
NI	231.604	2083
AG	328.068	5731
ZN	213.856	4285
PB	220.353	832
AS	193.759	1303
SE	196.09	907

Elem. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	S.D.	R.S.D.
SB	206.833	0.0006	1734	16.5136	0.9523
BE	234.861	-0.0003	2914	23.2809	0.7989
CD	214.438	0.0005	1662	9.2358	0.5557
CR	205.552	0.0001	1376	12.5897	0.9149
CU	324.754	0.0003	1668	6.5422	0.3922
NI	231.604	0.0002	2042	46.0923	2.2572
AG	328.068	0.0003	5769	43.3163	0.7508
ZN	213.856	0.0004	4182	66.2593	1.5844
PB	220.353	-0.0002	831	4.6152	0.5554
AS	193.759	0.0000	1304	46.2580	3.5474
SE	196.09	0.0005	919	9.3167	1.0138

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INTERFERENCE CHK

9-29-86 JMH

Begin Analysis - Sample Number 1

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	-0.0008	1216	1216
SE	196.09	-0.0013	873	873
CR	205.552	-0.0009	1246	1246
SB	206.833	-0.0003	535	535
ZN	213.856	-0.0003	3715	3715
CD	214.438	-0.0001	1465	1465
PB	220.353	-0.0007	794	794
NI	231.604	-0.0005	896	896
BE	234.861	-0.0006	2652	2652
CU	324.754	-0.0004	1519	1519
AG	328.068	-0.0001	1581	1581

Calculating Concentrations for Sample Number 1

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction TV	% rec	Net Concentration
SB	206.833	535	1.068	1.0	107	1.068
BE	234.861	2652	0.103	0.10	103	0.103
CD	214.438	1465	0.314	0.3	105	0.314
CR	205.552	1246	0.297	0.3	99	0.297
CU	324.754	1519	0.288	0.3	96	0.288
NI	231.604	896	0.301	0.3	100	0.301
AG	328.068	1581	0.261	0.3	87	0.261
ZN	213.856	3715	0.306	0.3	102	0.306
PB	220.353	794	~~1.161~~			~~1.161~~
AS	193.759	1216	~~1.439~~			~~1.439~~
SE	196.09	873	~~0.753~~			~~0.753~~

INTERFERENCE CHECK

Task: NJDEP Result File: LINEARAM - Analysis Results

Sample Name	SB 206.833	BE 234.861	CD 214.438	CR 205.552	CU 324.754
09-29-1986					
1 linear range	TV.12 0.119 99%				
2 linear range2		TV.01	TV.01	TV.02	TV.05
3 linear range		0.010 100%	0.010 100%	0.019 95%	0.050 10a

Sample Name	NI 231.604	AG 328.068	ZN 213.856	PB 220.353	AS 193.759
09-29-1986					
1 linear range					
2 linear range2	TV.08 101%	TV.02 0.021 105%	TV.04	T	
3 linear range	0.081		0.041 103%	~~0.008~~ (	~~0.030~~

Sample Name	SE 196.09
09-29-1986	
1 linear range	
2 linear range2	
3 linear range	(~~0.040~~

9-29-86 JMH

Task: NJDEP Result File: LINEARPM - Analysis Results 9-29-86 JMA

Sample Name	SB 206.833	BE 234.861	CD 214.438	CR 205.552	CU 324.754
09-29-1986					
1 linear range	TV .12 0.121				
2 linear range2	101%	TV.01	TV.01	TV.02	TV.05
3 linear range		0.010 100%	0.009 100%	0.021 105%	0.050 100%

Sample Name	NI 231.604	AG 328.068	ZN 213.856	PB 220.353	AS 193.759
09-29-1986					
1 linear range	TV.08	TV.02	TV.04	T	
2 linear range2		0.021			
3 linear range	0.080 100%	105%	0.041 103%	~~0.007~~ <	~~0.030~~

Sample Name	SE 196.09
09-29-1986	
1 linear range	
2 linear range2	
3 linear range	< ~~0.049~~

NJDEP ~~BATCH~~ ONE ①
AUTO ~~N930~~

DEP (result)

① CALIBRATION BLANK
② INST. CHECK STD ① As Be Cd Cr Cu Pb Ni Se Ag Zn
③ INST. CHECK STD ② (Sb)
④ EMSL ICAP-79: Sb Be Cd Cr Cu Pb Ni Zn ~~As~~ Se
⑤ EMSL ICAP-7: Ag
⑥ DIGESTED BLANK
⑦ 660 533 CD 910 -SED1
⑧ 660 537 -SED2
⑨ 660 541 -S1
⑩ 660 545 dup
⑪ 660 545 spike
⑫ 660 545 serial dilution
⑬ 660 545 CD910 -S2
⑭ 660 549 -S3
⑮ CAL BLANK
⑯ DIG BLANK
⑰ 2 above
⑱ 3
⑲ 4
⑳ 5
㉑ 660 553 CD910 - SW1
㉒ 660 557 SW2/SW2Q
㉓ 660 557 dup
㉔ 660 557 spike
㉕ 660 557 serial dilution
㉖ 660 561 TB
㉗ 660 565 FB
㉘ cal BLK
㉙ DIG BLK
㉚ 2
㉛ 3
㉜ 4
㉝ 5

Analyze Samples JMH 09-29-1986 @ 13:20:08 -- 4

Begin Analysis - Sample Number 1

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	570	570
SE	196.09	No Peak!	562	562
CR	205.552	No Peak!	382	382
SB	206.833	No Peak!	584	584
ZN	213.856	No Peak!	386	386
CD	214.438	No Peak!	264	264
PB	220.353	No Peak!	331	331
NI	231.604	No Peak!	893	893
BE	234.861	No Peak!	210	210
CU	324.754	No Peak!	465	465
AG	328.068	No Peak!	1746	1746

Calculating Concentrations for Sample Number 1

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	584	-0.015	<	0.060
BE	234.861	210	0.000	<	0.005
CD	214.438	264	-0.001	<	0.005
CR	205.552	382	-0.001	<	0.010
CU	324.754	465	0.004	<	0.025
NI	231.604	893	-0.001	<	0.040
AG	328.068	1746	-0.002	<	0.000
ZN	213.856	386	0.001	<	0.020
PB	220.353	331	0.005		0.005
AS	193.759	570	-0.014	<	0.030
SE	196.09	562	0.030	<	0.040

inst check std 1

Begin Analysis - Sample Number 2

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity

AS	193.759	-0.0004	3114	3114
SE	196.09	-0.0003	1894	1894
CR	205.552	-0.0005	5422	5422
ZN	213.856	-0.0003	18642	18642
CD	214.438	-0.0004	6980	6980
PB	220.353	-0.0009	2706	2706
NI	231.604	-0.0004	6351	6351

Analyze Samples JMH 09-29-1986 @ 13:31:43 -- 5

BE	234.861	-0.0006	13255	13255
CU	324.754	-0.0007	6822	6822
AG	328.068	-0.0004	25751	25751

Calculating Concentrations for Sample Number 2 INST. CHECK STD (1)

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	TV	90/110 range % rec
BE	234.861	13255	0.495		0.495	0.5	99
CD	214.438	6980	1.478		1.478	1.5	99
CR	205.552	5422	1.503		1.503	1.5	100
CU	324.754	6822	1.473		1.473	1.5	98
NI	231.604	6351	1.477		1.477	1.5	99
AG	328.068	25751	1.486		1.486	1.5	99
ZN	213.856	18642	1.466		1.466	1.5	98
PB	220.353	2706	4.950		4.950	5.0	—
AS	193.759	3114	4.702		4.702	5.0	—
SE	196.09	1894	2.481		2.481	5.0	—

inst. check std 2

Begin Analysis - Sample Number 3

JMH 9-29-86

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
SB	206.833	-0.0002	5812	5812

Calculating Concentrations for Sample Number 3 INST CHECK STD (2) range 80/120

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	TV	% rec
SB	206.833	5812	4.781		4.781	5.0	96

emsl icap-19

Begin Analysis - Sample Number 4

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	-0.0012	1102	1102
SE	196.09	-0.0004	1039	1039
CR	205.552	-0.0005	3752	3752
SB	206.833	0.0000	1608	1608

Analyze Samples JMH 09-29-1986 @ 13:36:32 -- 6

ZN	213.856	-0.0002	12201	12201
CD	214.438	-0.0004	4280	4280
PB	220.353	-0.0009	796	796
NI	231.604	-0.0003	4438	4438
BE	234.861	-0.0006	24702	24702
CU	324.754	-0.0006	4621	4621

Calculating Concentrations for Sample Number 4 EMSL ICAP-19

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	TV	90/110 range % rec
SB	206.833	1608	0.925		0.925	.99	94
BE	234.861	24702	0.930		0.930	.96	108
CD	214.438	4280	0.884		0.884	.94	94
CR	205.552	3752	1.005		1.005	1.03	98
CU	324.754	4621	0.964		0.964	1.03	93
NI	231.604	4438	0.959		0.959	1.02	94
ZN	213.856	12201	0.949		0.949	1.01	94
PB	220.353	796	0.973		0.973	1.01	99
AS	193.759	1102	0.972		0.972	1.00	98
SE	196.09	1039	0.908		0.908	.99	92

emsl icap-7

Begin Analysis - Sample Number 5

9-28-86 JMH

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AG	328.068	-0.0003	18069	18069

90/110 range

Calculating Concentrations for Sample Number 5 EMSL ICAP-7

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	TV	%rec
AG	328.068	18069	1.010		1.010	.99	98

digested blank

Begin Analysis - Sample Number 6

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	561	561

Analyze Samples JMH 09-29-1986 @ 13:41:30 -- 7

SE	196.09	No Peak!	551	551
CR	205.552	No Peak!	405	405
SB	206.833	No Peak!	594	594
ZN	213.856	No Peak!	385	385
CD	214.438	No Peak!	267	267
PB	220.353	No Peak!	324	324
NI	231.604	No Peak!	903	903
BE	234.861	No Peak!	213	213
CU	324.754	No Peak!	465	465
AG	328.068	No Peak!	1761	1761

Calculating Concentrations for Sample Number 6 DIGESTED BLANK

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	594	-0.005		< 0.060
BE	234.861	213	0.000		< 0.005
CD	214.438	267	-0.001		< 0.005
CR	205.552	405	0.005		< 0.010
CU	324.754	465	0.004		< 0.025
NI	231.604	903	0.002		< 0.040
AG	328.068	1761	-0.001		< 0.000
ZN	213.856	385	0.001		< 0.020
PB	220.353	324	-0.010		< 0.005
AS	193.759	561	-0.031		< 0.030
SE	196.09	551	0.010		< 0.040

660533 CD 910-SED1

Begin Analysis - Sample Number 7

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	1225	1225
SE	196.09	No Peak!	707	707
CR	205.552	-0.0007	1161	1161
SB	206.833	No Peak!	792	792
ZN	213.856	-0.0003	26383	26383
CD	214.438	0.0016	701	701
PB	220.353	-0.0007	810	810
NI	231.604	-0.0001	2360	2360
BE	234.861	-0.0005	1691	1691
CU	324.754	-0.0006	5630	5630
AG	328.068	No Peak!	1937	1937

Analyze Samples JMH 09-29-1986 @ 13:48:16 -- 8

Calculating Concentrations for Sample Number 7 660533 CD 910-SED1

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	792	0.176		0.176
BE	234.861	1691	0.056		0.056
CD	214.438	701	0.095		0.095
CR	205.552	1161	0.231		0.231
CU	324.754	5630	1.197		1.197
NI	231.604	2360	0.397		0.397
AG	328.068	1937	0.010		0.010
ZN	213.856	26383	2.088		2.088
PB	220.353	810	1.002		1.002
AS	193.759	1225	1.200		1.200
SE	196.09	707	0.297		0.297

660537 CD 910-SED2

Begin Analysis - Sample Number 8

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	747	747
SE	196.09	No Peak!	591	591
CR	205.552	0.0000	680	680
SB	206.833	No Peak!	631	631
ZN	213.856	-0.0002	8870	8870
CD	214.438	0.0011	408	408
PB	220.353	-0.0006	736	736
NI	231.604	-0.0007	1384	1384
BE	234.861	-0.0005	404	404
CU	324.754	-0.0007	1590	1590
AG	328.068	No Peak!	1893	1893

Calculating Concentrations for Sample Number 8 660657 CD-910-SED2

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	631	0.028	<	0.060
BE	234.861	404	0.008		0.008
CD	214.438	408	0.030		0.030
CR	205.552	680	0.088		0.088
CU	324.754	1590	0.264		0.264
NI	231.604	1384	0.132		0.132
AG	328.068	1893	0.007		0.007

Analyze Samples JMH 09-29-1986 @ 13:52:23 -- 9

ZN 213.856	8870	0.682	0.682
PB 220.353	736	0.848	0.848
AS 193.759	747	0.314	0.314
SE 196.09	591	0.084	0.084

660541 CD 910-S1

Begin Analysis - Sample Number 9

9-29-86 JMH

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	918	918
SE	196.09	No Peak!	594	594
CR	205.552	-0.0001	1206	1206
SB	206.833	No Peak!	701	701
ZN	213.856	0.0000	17068	17068
CD	214.438	0.0007	553	553
PB	220.353	-0.0009	940	940
NI	231.604	-0.0004	1568	1568
BE	234.861	-0.0011	516	516
CU	324.754	-0.0008	3471	3471
AG	328.068	-0.0002	2362	2362

Calculating Concentrations for Sample Number 9 660541 CD-910-S1

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	701	0.093		0.093
BE	234.861	516	0.012		0.012
CD	214.438	553	0.062		0.062
CR	205.552	1206	0.245		0.245
CU	324.754	3471	0.699		0.699
NI	231.604	1568	0.182		0.182
AG	328.068	2362	0.036		0.036
ZN	213.856	17068	1.340		1.340
PB	220.353	940	1.273		1.273
AS	193.759	918	0.631		0.631
SE	196.09	594	0.089		0.089

660541 duplicate

Begin Analysis - Sample Number 10

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity

Analyze Samples 09-26-1986 @ 13:57:09 -- 10

AS	193.759	No Peak!	883	883
SE	196.09	No Peak!	623	623
CR	205.552	-0.0003	1168	1168
SB	206.833	No Peak!	695	695
ZN	213.856	-0.0001	16730	16730
CD	214.438	0.0004	536	536
PB	220.353	-0.0006	933	933
NI	231.604	0.0002	1520	1520
BE	234.861	-0.0005	512	512
CU	324.754	-0.0006	3409	3409
AG	328.068	0.0000	2365	2365

± DL if <5xCRDL

range ±20% >5xCRDL

Calculating Concentrations for Sample Number 10 660541 duplicate

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction 4-dilution	Net Concentration	% RPD
SB	206.833	695	0.087	.022	0.087	.07
BE	234.861	512	0.012	.003	0.012	0
CD	214.438	536	0.059	.015	0.059	.07
CR	205.552	1168	0.233	.058	0.233	.05
CU	324.754	3409	0.684	.171	0.684	.02
NI	231.604	1520	0.169	.042	0.169	.07
AG	328.068	2365	0.037	.009	0.037	.03
ZN	213.856	16730	1.313	.329	1.313	.02
PB	220.353	933	1.258	.315	1.258	.02
AS	193.759	883	~~0.566~~		~~0.566~~	
SE	196.09	623	~~0.143~~		~~0.143~~	

660541 spike

Begin Analysis - Sample Number 11

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	918	918
SE	196.09	No Peak!	635	635
CR	205.552	-0.0001	1855	1855
SB	206.833	-0.0004	1106	1106
ZN	213.856	-0.0002	18641	18641
CD	214.438	0.0002	733	733
PB	220.353	-0.0007	1103	1103
NI	231.604	-0.0003	2969	2969
BE	234.861	-0.0005	1679	1679
CU	324.754	-0.0006	4446	4446
AG	328.068	0.0001	2700	2700

Analyze Samples JMH 09-29-1986 @ 14:03:48 -- 11

Calculating Concentrations for Sample Number 11 660541 spike

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	spike ~~ppm~~	%rec
SB	206.833	1106	0.464		0.464	0.5	74.2
BE	234.861	1679	0.056		0.056	0.05	88.0
CD	214.438	733	0.102		0.102	0.05	80.0
CR	205.552	1855	0.438		0.438	.20	97.0
CU	324.754	4446	0.924		0.924	.25	90.0
NI	231.604	2969	0.561		0.561	.40	94.8
AG	328.068	2700	0.057		0.057	.05	42.0
ZN	213.856	18641	1.466		1.466	.20	63.0
PB	220.353	1103	1.612		~~1.612~~	~~.50~~	
AS	193.759	918	0.631		~~0.631~~		
SE	196.09	635	0.165		~~0.165~~		

660541/4 (serial dilution)

Begin Analysis - Sample Number 12

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	678	678
SE	196.09	No Peak!	581	581
CR	205.552	0.0003	617	617
SB	206.833	No Peak!	611	611
ZN	213.856	-0.0001	4748	4748
CD	214.438	No Peak!	332	332
PB	220.353	-0.0016	483	483
NI	231.604	No Peak!	1060	1060
BE	234.861	No Peak!	282	282
CU	324.754	-0.0008	1248	1248
AG	328.068	No Peak!	1925	1925

Calculating Concentrations for Sample Number 12 660541 ÷ 4

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	±10% range
				x4 =		
SB	206.833	611	0.010		< 0.060	No <10xIDL OK
BE	234.861	282	0.003		< 0.005	~~yes~~
CD	214.438	332	0.014	56	0.014	yes
CR	205.552	617	0.069	276	0.069	yes
CU	324.754	1248	0.185	740	0.185	yes
NI	231.604	1060	0.045	180	0.045	yes

Analyze Samples JMH 09-29-1986 @ 14:07:50 -- 12

AG 328.068	1925	0.009	36	0.009	yes	2.7
ZN 213.856	4748	0.351	1404	0.351	yes	
PB 220.353	483	0.321		0.321	yes	
AS 193.759	678	0.186		~~0.186~~		
SE 196.09	581	0.065		~~0.065~~		

660545 CD 910-S2

Begin Analysis - Sample Number 13

9-29-86 JMH

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	676	676
SE	196.09	No Peak!	579	579
CR	205.552	0.0003	620	620
SB	206.833	No Peak!	616	616
ZN	213.856	0.0000	4101	4101
CD	214.438	No Peak!	336	336
PB	220.353	-0.0008	1659	1659
NI	231.604	-0.0001	1176	1176
BE	234.861	No Peak!	339	339
CU	324.754	-0.0007	1701	1701
AG	328.068	No Peak!	1945	1945

Calculating Concentrations for Sample Number 13 660545 CD-910-S2

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	616	0.015	<	0.060
BE	234.861	339	0.005		0.005
CD	214.438	336	0.015		0.015
CR	205.552	620	0.070		0.070
CU	324.754	1701	0.290		0.290
NI	231.604	1176	0.076		0.076
AG	328.068	1945	0.011		0.011
ZN	213.856	4101	0.299		0.299
PB	220.353	1659	2.770		2.770
AS	193.759	676	0.182		0.182
SE	196.09	579	0.062		0.062

660549 CD 910-S3

Begin Analysis - Sample Number 14

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity

Analyze Samples JMH 09-29-1986 @ 14:13:34 -- 13

AS	193.759	No Peak!	978	978
SE	196.09	No Peak!	681	681
CR	205.552	0.0002	4044	4044
SB	206.833	No Peak!	749	749
ZN	213.856	0.0000	101399	101399
CD	214.438	0.0006	1401	1401
PB	220.353	-0.0006	4545	4545
NI	231.604	-0.0001	10695	10695
BE	234.861	No Peak!	551	551
CU	324.754	-0.0007	31622	31622
AG	328.068	-0.0001	2573	2573

Calculating Concentrations for Sample Number 14 650549 CD-910-S3

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	749	0.137		0.137
BE	234.861	551	0.013		0.013
CD	214.438	1401	0.249		0.249
CR	205.552	4044	1.092		1.092
CU	324.754	31622	7.201		7.201
NI	231.604	10695	2.653		2.653
AG	328.068	2573	0.050		0.050
ZN	213.856	101399	8.110		8.110
PB	220.353	4545	8.779		8.779
AS	193.759	978	0.742		0.742
SE	196.09	681	0.249		0.249

calibration blank

Begin Analysis - Sample Number 15

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity

AS	193.759	No Peak!	609	609
SE	196.09	No Peak!	545	545
CR	205.552	No Peak!	400	400
SB	206.833	No Peak!	584	584
ZN	213.856	No Peak!	423	423
CD	214.438	No Peak!	275	275
PB	220.353	No Peak!	323	323
NI	231.604	No Peak!	923	923
BE	234.861	No Peak!	217	217
CU	324.754	No Peak!	482	482
AG	328.068	No Peak!	1786	1786

Analyze Samples 09-29-1986 @ 14:20:36 -- 14

Calculating Concentrations for Sample Number 15 CALIBRATION BLANK

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	584	-0.015	<	0.060
BE	234.861	217	0.001	<	0.005
CD	214.438	275	0.001	<	0.005
CR	205.552	400	0.004	<	0.010
CU	324.754	482	0.008	<	0.025
NI	231.604	923	0.007	<	0.040
AG	328.068	1786	0.001		0.001
ZN	213.856	423	0.004	<	0.020
PB	220.353	323	-0.012	<	0.005
AS	193.759	609	0.058		0.058
SE	196.09	545	-0.001	<	0.040

digested blank

Begin Analysis - Sample Number 16

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	577	577
SE	196.09	No Peak!	553	553
CR	205.552	No Peak!	399	399
SB	206.833	No Peak!	596	596
ZN	213.856	No Peak!	399	399
CD	214.438	No Peak!	268	268
PB	220.353	No Peak!	321	321
NI	231.604	No Peak!	927	927
BE	234.861	No Peak!	210	210
CU	324.754	No Peak!	476	476
AG	328.068	No Peak!	1746	1746

Calculating Concentrations for Sample Number 16 DIG BLANK

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	596	-0.004	<	0.060
BE	234.861	210	0.000	<	0.005
CD	214.438	268	0.000	<	0.005
CR	205.552	399	0.004	<	0.010
CU	324.754	476	0.007	<	0.025

Analyze Samples JMH 09-24-1986 @ 14:24:44 -- 15

NI	231.604	927	0.009	<	0.040
AG	328.068	1746	-0.002	<	0.000
ZN	213.856	399	0.002	<	0.020
PB	220.353	321	-0.016	<	0.005
AS	193.759	577	-0.001	<	0.030
SE	196.09	553	0.014	<	0.040

inst. check std. 1

Begin Analysis - Sample Number 17

9-29-86 JMH

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	-0.0001	3049	3049
SE	196.09	0.0004	1807	1807
CR	205.552	0.0003	5202	5202
ZN	213.856	0.0002	18366	18366
CD	214.438	0.0000	7009	7009
PB	220.353	-0.0005	2731	2731
NI	231.604	-0.0001	6274	6274
BE	234.861	-0.0004	12777	12777
CU	324.754	-0.0005	6600	6600
AG	328.068	-0.0002	25263	25263

Calculating Concentrations for Sample Number 17 FIRST. CHECK STD (1) 90/110 range

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	TV	%rec
BE	234.861	12777	0.477		0.477	0.50	96
CD	214.438	7009	1.485		1.485	1.50	99
CR	205.552	5202	1.438		1.438	1.50	96
CU	324.754	6600	1.421		1.421	↓	95
NI	231.604	6274	1.456		1.456		98
AG	328.068	25263	1.456		1.456		98
ZN	213.856	18366	1.444		1.444		96
PB	220.353	2731	5.002		5.002	5.0	100
AS	193.759	3049	4.582		~~4.582~~		
SE	196.09	1807	2.321		~~2.321~~		

inst. check std 2

Begin Analysis - Sample Number 18

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity

Analyze Samples 09-29-1986 @ 14:29:17 -- 16

SB	206.833	0.0000	5780	5780

Calculating Concentrations for Sample Number 18 INST. CHECK STD (2)

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	TV	
SB	206.833	5780	4.752		4.752	5.0	95%

emsl icap-19

Begin Analysis - Sample Number 19

9-29-86 JMH

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	-0.0014	1057	1057
SE	196.09	0.0002	1070	1070
CR	205.552	0.0003	3561	3561
SB	206.833	0.0002	1640	1640
ZN	213.856	0.0002	12187	12187
CD	214.438	0.0001	4343	4343
PB	220.353	-0.0005	791	791
NI	231.604	0.0000	4460	4460
BE	234.861	-0.0003	23872	23872
CU	324.754	-0.0005	4451	4451

Calculating Concentrations for Sample Number 19 EMSL ICAP-19 range 90-110

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	TV	% rec
SB	206.833	1640	0.954		0.954	.99	96
BE	234.861	23872	0.898		0.898	.96	94
CD	214.438	4343	0.897		0.897	.94	95
CR	205.552	3561	0.948		0.948	1.03	92
CU	324.754	4451	0.925		0.925	1.03	90
NI	231.604	4460	0.965		0.965	1.02	95
ZN	213.856	12187	0.948		0.948	1.01	94
PB	220.353	791	0.962		0.962	1.01	95
AS	193.759	1057	0.889		0.889	1.00	—
SE	196.09	1070	0.965		0.965	.99	—

emsl icap-7

Begin Analysis - Sample Number 20

Analyze Samples JMA 09-29-1986 @ 14:34:19 -- 17

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AG	328.068	-0.0001	17666	17666

Calculating Concentrations for Sample Number 20 EMSL ICAP-7

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	TV	rec
AG	328.068	17666	0.985		0.985	1.01	98%

660553 CD 910-SW1

Begin Analysis - Sample Number 21

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	603	603
SE	196.09	No Peak!	569	569
CR	205.552	No Peak!	426	426
SB	206.833	No Peak!	596	596
ZN	213.856	0.0001	2830	2830
CD	214.438	No Peak!	310	310
PB	220.353	No Peak!	374	374
NI	231.604	No Peak!	975	975
BE	234.861	No Peak!	238	238
CU	324.754	-0.0001	794	794
AG	328.068	No Peak!	1781	1781

Calculating Concentrations for Sample Number 21 660553 CD-910-SW2

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	596	-0.004	<	0.060
BE	234.861	238	0.001	<	0.005
CD	214.438	310	0.009		0.009
CR	205.552	426	0.012		0.012
CU	324.754	794	0.080		0.080
NI	231.604	975	0.022	<	0.040
AG	328.068	1781	0.000		0.000
ZN	213.856	2830	0.197		0.197
PB	220.353	374	0.094		0.094
AS	193.759	603	0.047		0.047
SE	196.09	569	0.043		0.043

Analyze Samples JMH 09-29-1986 @ 14:39:08 -- 18

660557 CD 910-SW2/SW20

Begin Analysis - Sample Number 22

9-29-86 JMA

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	605	605
SE	196.09	No Peak!	545	545
CR	205.552	No Peak!	408	408
SB	206.833	No Peak!	614	614
ZN	213.856	-0.0002	655	655
CD	214.438	No Peak!	283	283
PB	220.353	No Peak!	334	334
NI	231.604	No Peak!	995	995
BE	234.861	No Peak!	221	221
CU	324.754	No Peak!	554	554
AG	328.068	No Peak!	1912	1912

Calculating Concentrations for Sample Number 22 660557 SW2/SW2Q

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	614	0.013	<	0.060
BE	234.861	221	0.001	<	0.005
CD	214.438	283	0.003	<	0.005
CR	205.552	408	0.006	<	0.010
CU	324.754	554	0.025		0.025
NI	231.604	995	0.027	<	0.040
AG	328.068	1912	0.009		0.009
ZN	213.856	655	0.022		0.022
PB	220.353	334	0.011		~~0.011~~
AS	193.759	605	0.051		~~0.051~~
SE	196.09	545	-0.001	<	~~0.040~~

660557 duplicate

Begin Analysis - Sample Number 23

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	580	580
SE	196.09	No Peak!	588	588
CR	205.552	No Peak!	410	410
SB	206.833	No Peak!	598	598

Analyze Samples JMH 09-29-1986 @ 14:49:08 -- 19

ZN	213.856	0.0001	629	629
CD	214.438	No Peak!	278	278
PB	220.353	No Peak!	332	332
NI	231.604	No Peak!	1002	1002
BE	234.861	No Peak!	217	217
CU	324.754	No Peak!	553	553
AG	328.068	No Peak!	1907	1907

Calculating Concentrations for Sample Number 23 660557 duplicate

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	% RPD
SB	206.833	598	-0.002	<	0.060	NC
BE	234.861	217	0.001	<	0.005	↓
CD	214.438	278	0.002	<	0.005	0
CR	205.552	410	0.007	<	0.010	NC
CU	324.754	553	0.025		0.025	NC
NI	231.604	1002	0.029	<	0.040	9.5
AG	328.068	1907	0.008	<.01	0.008	
ZN	213.856	629	0.020		0.020	
PB	220.353	332	0.007		~~0.007~~	
AS	193.759	580	0.004	<	~~0.030~~	
SE	196.09	588	0.078		~~0.078~~	

Plug

660557 spike

Begin Analysis - Sample Number 24

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	606	606
SE	196.09	No Peak!	550	550
CR	205.552	-0.0001	1011	1011
SB	206.833	-0.0002	1093	1093
ZN	213.856	0.0000	2793	2793
CD	214.438	0.0004	475	475
PB	220.353	-0.0002	480	480
NI	231.604	-0.0002	2200	2200
BE	234.861	-0.0005	1175	1175
CU	324.754	-0.0007	1330	1330
AG	328.068	-0.0004	2715	2715

Calculating Concentrations for Sample Number 24 660557 spike

Elem.	Wave-	Net Peak	Calculated	Interference	Net

Analyze Samples 09-26-1986 @ 14:54:50 -- 20

Sym.	length	Intensity	Concentration	Correction	Concentration	spike	% rec
SB	206.833	1093	0.452		0.452	0.5	90
BE	234.861	1175	0.037		0.037	.05	74
CD	214.438	475	0.045		0.045	.05	90
CR	205.552	1011	0.186		0.186	.20	95
CU	324.754	1330	0.204		0.204	.25	72
NI	231.604	2200	0.353		0.353	.40	82
AG	328.068	2715	0.058		0.058	.05	98
ZN	213.856	2793	0.194		0.194	.20	86
PB	220.353	480	0.315		~~0.315~~		
AS	193.759	606	0.052		~~0.052~~		
SE	196.09	550	0.008	<	0.~~040~~		

660557/4 (serial dilution)

Begin Analysis - Sample Number 25

488

9-29-86 JMH

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	620	620
SE	196.09	No Peak!	552	552
CR	205.552	No Peak!	393	393
SB	206.833	No Peak!	622	622
ZN	213.856	No Peak!	408	408
CD	214.438	No Peak!	287	287
PB	220.353	No Peak!	335	335
NI	231.604	No Peak!	992	992
BE	234.861	No Peak!	225	225
CU	324.754	No Peak!	514	514
AG	328.068	No Peak!	1935	1935

Calculating Concentrations for Sample Number 26 660561 CD-910-TB

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	622	0.020	<	0.060
BE	234.861	225	0.001	<	0.005
CD	214.438	287	0.004	<	0.005
CR	205.552	393	0.002	<	0.010
CU	324.754	514	0.016	<	0.025
NI	231.604	992	0.026	<	0.040
AG	328.068	1935	0.010		0.010
ZN	213.856	408	0.002	<	0.020
PB	220.353	335	0.013		0.013
AS	193.759	620	0.078		0.078
SE	196.09	552	0.012	<	0.040

660565 CD 910-FB

Begin Analysis - Sample Number 27

9-29-86 JMA

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	584	584
SE	196.09	No Peak!	563	563
CR	205.552	No Peak!	406	406

Analyze Samples 09-26-1986 @ 15:04:17 -- 22

SB	206.833	No Peak!	587	587
ZN	213.856	No Peak!	406	406
CD	214.438	No Peak!	276	276
PB	220.353	No Peak!	325	325
NI	231.604	No Peak!	947	947
BE	234.861	No Peak!	220	220
CU	324.754	No Peak!	527	527
AG	328.068	No Peak!	1861	1861

Calculating Concentrations for Sample Number 27 660 565 CD-910 - FB

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	587	-0.012	<	0.060
BE	234.861	220	0.001	<	0.005
CD	214.438	276	0.001	<	0.005
CR	205.552	406	0.006	<	0.010
CU	324.754	527	0.019	<	0.025
NI	231.604	947	0.014	<	0.040
AG	328.068	1861	0.005		0.005
ZN	213.856	406	0.002	<	0.020
PB	220.353	325	-0.008	<	0.005
AS	193.759	584	0.012	<	0.030
SE	196.09	563	0.032	<	0.040

calibration blank

Begin Analysis - Sample Number 28

9-29-86 JMA

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	578	578
SE	196.09	No Peak!	562	562
CR	205.552	No Peak!	399	399
SB	206.833	No Peak!	599	599
ZN	213.856	No Peak!	394	394
CD	214.438	No Peak!	273	273
PB	220.353	No Peak!	323	323
NI	231.604	No Peak!	935	935
BE	234.861	No Peak!	209	209
CU	324.754	No Peak!	479	479
AG	328.068	No Peak!	1860	1860

Calculating Concentrations for Sample Number 28 cal blank

Analyze Samples 09-26-1986 @ 15:10:22 -- 23

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	599	-0.001	<	0.060
BE	234.861	209	0.000	<	0.005
CD	214.438	273	0.001	<	0.005
CR	205.552	399	0.004	<	0.010
CU	324.754	479	0.008	<	0.025
NI	231.604	935	0.011	<	0.040
AG	328.068	1860	0.005		0.005
ZN	213.856	394	0.001	<	0.020
PB	220.353	323	-0.012	<	0.005
AS	193.759	578	0.000	<	0.030
SE	196.09	562	0.030	<	0.040

digested blank

Begin Analysis - Sample Number 29

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	No Peak!	583	583
SE	196.09	No Peak!	561	561
CR	205.552	No Peak!	415	415
SB	206.833	No Peak!	594	594
ZN	213.856	No Peak!	395	395
CD	214.438	No Peak!	279	279
PB	220.353	No Peak!	324	324
NI	231.604	No Peak!	938	938
BE	234.861	No Peak!	215	215
CU	324.754	No Peak!	489	489
AG	328.068	No Peak!	1835	1835

Calculating Concentrations for Sample Number 29 digested blank

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration
SB	206.833	594	-0.005	<	0.060
BE	234.861	215	0.000	<	0.005
CD	214.438	279	0.002	<	0.005
CR	205.552	415	0.008	<	0.010
CU	324.754	489	0.010	<	0.025
NI	231.604	938	0.012	<	0.040
AG	328.068	1835	0.004		0.004
ZN	213.856	395	0.001	<	0.020
PB	220.353	324	-0.010	<	0.005

Analyze Samples 09-26-1986 @ 15:15:46 -- 24

AS	193.759	583	0.010	< 0.030
SE	196.09	561	0.028	< 0.040

inst. check std 1

Begin Analysis - Sample Number 30

9-29-86 JMA

AS	193.759	0.0001	2618	2618
SE	196.09	0.0001	1472	1472
CR	205.552	0.0000	4695	4695
ZN	213.856	-0.0001	16250	16250
CD	214.438	0.0001	5955	5955
PB	220.353	0.0000	2359	2359
NI	231.604	-0.0002	5465	5465
BE	234.861	0.0002	11509	11509
CU	324.754	-0.0004	5723	5723
AG	328.068	-0.0001	22616	22616

Calculating Concentrations for Sample Number 30 INST CHECK 1 range 90-110

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	TV	% rec
BE	234.861	11509	0.523		0.523	0.5	104
CD	214.438	5955	1.511		1.511	1.5	101
CR	205.552	4695	1.624		1.624		108
CU	324.754	5723	1.533		1.533		102
NI	231.604	5465	1.552		1.552		103
AG	328.068	22616	1.545		1.545		103
ZN	213.856	16250	1.505		1.505		101
PB	220.353	2359	5.297		5.297	5.0	106
AS	193.759	2618	5.287		~~5.287~~		
SE	196.09	1472	2.194		~~2.194~~		

inst check std 2

Ele.	Wave-	Mean Peak	Mean Peak	Net Peak

Calculating Concentrations for Sample Number 31

INST. CHECK STD (2)

Analyze Samples

Jmd 09-29-1986 @ 15:25:47 -- 25

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	TV	%rec
SB	206.833	4661	4.565		4.565	5.0	92

emsl icap 17

Begin Analysis - Sample Number 32

9-29-86 [illegible]

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AS	193.759	-0.0006	1013	1013
SE	196.09	0.0016	966	966
CR	205.552	0.0001	3125	3125
SB	206.833	0.0004	1407	1407
ZN	213.856	-0.0001	10674	10674
CD	214.438	0.0002	3728	3728
PB	220.353	0.0000	747	747
NI	231.604	-0.0002	3910	3910
BE	234.861	-0.0003	21378	21378
CU	324.754	-0.0003	3942	3942

Calculating Concentrations for Sample Number 30 EMSL ICAP-19

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correct. %	Net Concentration	TV	% rec
SB	206.833	1407	0.913		0.913	.99	92
BE	234.861	21378	0.980		0.980	.96	102
CD	214.438	3728	0.919		0.919	.94	98
CR	205.552	3125	1.030		1.030	1.03	100
CU	324.754	3942	1.012		1.012	1.03	98
NI	231.604	3910	1.018		1.018	1.02	100
ZN	213.856	10674	0.975		0.975	1.01	97
PB	220.353	747	1.091		1.091	1.01	108
AS	193.759	1013	1.088		~~1.088~~		
SE	196.09	966	0.952		~~0.952~~		

Ele. Sym.	Wave-length	Mean Peak Position	Mean Peak Intensity	Net Peak Intensity
AG	328.068	-0.0005	16707	16707

Analyze Samples Jmst 09-29-1986 @ 15:30:47 -- 26

Calculating Concentrations for Sample Number 33 EMSL ICAP-7

Elem. Sym.	Wave-length	Net Peak Intensity	Calculated Concentration	Interference Correction	Net Concentration	T✓	
AG	328.068	16707	0.926		0.926	.99	94%

ANALYST Lynn J. Daniello

Page No. 3

1 of 2

DATE 10/6/86-10/7/86

TEST: CN

	CLIENT	LAB No	m/s sample Distilled	m/s absorbing sol'n	%T	µg	mg/l	NOTES	FRCN
1	TS = 56% NJDEP	660533	1.2174g in 500	50	99.8	—	<7.3 mg/kg DRY	BOT # K-400 I.D. CD-910-SED1 <5ug × 50/50 / 1.2174g @ 56%/100 = <7.3 mg/kg DRY	
2	TS = 70% NJDEP	537	1.0030g in 500	50	99.7	—	<7.1 mg/kg DRY	BOT # K-403 I.D. CD-910-SED2 <5ug @ 50/50 / 1.0030g @ 70/100 = <7.1 mg/kg DRY	
3	TS = 70% NJDEP(DUP)	537	1.0094g in 500	50	99.8	—	<7.1 mg/kg DRY	BOT # K-403 I.D. CD-910-SED2 <5ug @ 50/50 / 1.0094 @ 70/100 = <7.1 mg/kg DRY	Δ = 0
4	TS = 70% NJDEP(100 ug SPIKE)	537	1.2008g in 500	10	85.0	8.7ug		BOT # K-403 I.D. CD-910-SED2 Would be 87* Should be 100* => 87* - 0 / 100* = 87%	87% Rec
5	CROL STANDARD	1 ml of 1:5 ug → 250 ml	—	50	91.8	4.5ug		~~BOT #~~ 4.5/5.0 @ 100% = 90%	90% Rec
6	TS = 59% NJDEP	660541	1.1415g → 500	50	100.3	—	<7.4 mg/kg DRY	BOT #: K-407 I.D. CD 910-S1 <5ug @ 50/50 / 1.1415g @ 59/100 = <7.4 mg/kg DRY	
7	TS = 93% NJDEP	545	1.1405g → 500	50	97.8	—	<4.7 mg/kg DRY	BOT #: K-404 I.D. CD-910-S2 <5ug @ 50/50 / 1.1405g @ 93/100 = <4.7 mg/kg DRY	
8	TS = 90% NJDEP	549	1.6078 → 500	50	98.3	—	<3.5 mg/kg DRY	BOT #. K-408 I.D. CD 910-S3 <5ug @ 50/50 / 1.6078g @ 90/100 < 3.5 mg/kg DRY	
9	4 ml of 1:5 ug → 500 mls	40 ug/l STANDARD	500	50	70.6	19.0ug	38*	38*/40* @ 100% = 95%	95% RE
10	NJDEP	660882	500	50	98.7	—	<10*	BOT # H-526 MW-1	
11	NJDEP	886	500	50	100.0	—	<10*	BOT # H-514 MW-2A	
12	NJDEP(DUP)	886	500	50	99.3	—	<10*	BOT # H-514 MW-2A	Δ = 0
13	NJDEP(100 ug/l SPIKE)	886	500	10	85.5	8.5ug	85*	BOT # 509 MW-2A 85* - 0* / 100* @ 100% = 85% Rec	85% Rec
14	BLANK	BLANK	500	50	99.4	—	<10*		
15	(50 ug) STANDARD	10 ml of 1:5 ug → 250 ml	—	50	44.9	44ug		44ug/50ug @ 100% = 88%	88% RE
16									

Continued next page

$$\%REC = \frac{\text{SPIKED RESULT} - \text{DUPLICATE}}{\text{SPIKED AMT}} \times 100$$

* = ug/l

497

ANALYST Lynn T. Danielle

Page No. 4 2 of 2 DATE 10/6 - 10/7/86

TEST: CN

CLIENT	LAB NO	ml sample Distilled	ml absorbing sol'n	%T	µg	mg/l	NOTES	FRCN
NJDEP	660890	500	50	95.8	—	<10*	BOT #: H-506 I.D. MW-5	
NJDEP	894	500	50	100.9	—	<10*	BOT #: H-513 I.D. MW-6	
NJDEP	898	500	50	99.2	—	<10*	BOT #: H-510 I.D. DUP-1	
NJDEP	902	500	50	99.7	—	<10*	BOT #: H-500 I.D. TB-1	
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								

$$\%REC = \frac{\text{SPIKED RESULT} - \text{DUPLICATE}}{\text{SPIKED AMT}} \times 100$$

* = µg/l

ANALYST Lynn T. Daniello

ge No. 2

DATE 10/3/86

TEST: CN

CLIENT	LAB Nº	mls sample Distilled	mls absorbing sol'n	%T	µg	mg/l	NOTES	FRCN
NJDEP	660553	500	50	99.4	—	<10*	Bot. # H-404 I.D. CD910-SW1	
NJDEP	660557	500	50	99.4	—	<10*	Bot. # H-401 I.D. CD910-SW2	
NJDEP (DUPLICATE)	660557	500	50	99.5	—	<10*	Bot. # H-401 I.D. CD910-SW2	Δ = 0%
NJDEP (100 µg SPIKE)	↓ 557	500	10	83.4	9.7 µg	97*	Bot# H-405 I.D. CD910-SW2 $\frac{9.7 \times 1000}{500} \otimes \frac{50}{10} = 97$ µg/l	97% Rec
NJDEP	660565	500	50	100.9	—	<10*	BOT # H-402 I.D. CD910-FB	
NJDEP	561	500	50	100.7	—	<10*	BOT # H- I.D. CD910-TB	
4 mls/500 (LTD) (of 1.5 µg std)	40 µg/l STANDARD	500	50	69.9	19.5 µg	39*	$\frac{39*}{40*} \otimes 100\% = 97.5\%$	97.5%
BLANK	BLANK	500	50	100.7	—	<10*		
(CRDL) STD	1 ml of 1.5 µg std → 250 ml	—	50	92.0	4.5 µg		5 µg/250 ml $\frac{4.5 \text{ µg}}{5.0 \text{ µg}} \otimes 100\% = 90\%$	90%
STD	5 ml of 1.5 µg std → 250	—	50	59.6	27 µg		25 µg/250 ml $\frac{27 \text{ µg}}{25 \text{ µg}} \otimes 100\% = 108\%$	108%

$\% REC = \frac{\text{SPIKED RESULT} - \text{DUPLICATE}}{\text{SPIKED AMT}} \times 100$

* = µg/l

492

ANALYST Patricia W. Pat

DATE: Sept 23, 1986

PHENOLS

CLIENT N.J.D.E.P.	LEB NO/BOTTLE#	ML SAMPLE	%T	ug	ug mg/Kg
1. CD910-SED1	660533/K400	10g/500	97.2	.6	.11
2. CD910-SED2	660537/K403	10g/500	100.3	—	<.07
3. CD910-S-1	660541/K407	10g/500	100.8	—	<.085
4. CD910-S-2	660545 PWP/K404	10g/500	97.0	.6	.065
5. CD910-S-3	660549/K408	10g/500	96.6	.6	.067
6. CD910-SW1	660553/IP404	400	109.0	—	<
7. CD910-TB	660561/IP400	500	112.6	—	<
8.	660977	200	91.	1.4	7.
9. 9/24/86 CD910-SW2/T	660557/IP403	500	108.7	—	<.1
10.					

UPLICATE

CD-910-SW2 LAB # 660557 ML SAMPLE 500 %T 110.4 ug — ug/l <
Q IP403

PIKE

CD-910-SW2Q LAB # 660557 ML SAMPLE 500 %T 100.2 ug — ug/l
IP411 (BOTTLE)

SAMPLE INTERFERENCE

MICROGRAMS SPIKED 5 % RECOVERY /

insufficient sample for a Re Run

STANDARD 1ml = 10ug

1. ML STANDARD	.45	%T	88	ug	2.2	ug/l	PWP .94
2. ML STANDARD		%T		ug		ug/l	

500

Analytical Data Report Package

for

NJDEP

Tier I Part III

September 1986

Submitted by:

H2M Laboratory
HOLZMACHER, McLENDON and MURRELL, P.C.
Consulting Engineers, Environmental Scientists, Architects and Planners
Melville, N.Y. Riverhead, N.Y. Farmingdale, N.Y. Fairfield, N.J.

VII. Standard Data Package

1. Initial Calibration
2. Continuing Calibration
3. Evaluation Standards Summary
4. Linearity Evaluation
5. Standard Summary for Pesticides
6. Standard Chromatograms
7. Quantification Reports or Integrams
8. Standard Spectra for Components found in Samples.

for scans:

___x___ GC/MS Volatiles
___x___ GC/MS Extractables
___x___ Pesticides/PCB's

LOD

WARNING: FMP -6 on ::

.....

Lab Name : H2M LABS
Case No : SEMI-VOL

Sample Number

ORGANICS ANALYSIS DATA SHEET
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted:
Date Analyzed:
Conc/Dil Factor: 1
Percent Moisture (Decanted) .....

GPC Cleanup __ Yes __ No
Separatory Funnel Extraction __ Yes
Continuous Liquid-Liquid Extraction __ Yes

C.A.S. Number		ug/L or ug/Kg (Circle One)
62-53-3	Aniline	3 [redacted]
65-75-9	N-Nitrosodimethylamine	3 [redacted]
108-95-2	Phenol	3 [redacted]
111-44-4	bis(-2-Chloroethyl)Ether	2 [redacted]
95-57-8	2-Chlorophenol	3 [redacted]
541-73-1	1,3-Dichlorobenzene	2 [redacted]
106-46-7	1,4-Dichlorobenzene	2 [redacted]
[redacted]	[redacted]	[redacted]
95-50-1	1,2-Dichlorobenzene	2 [redacted]
[redacted]	[redacted]	[redacted]
39638-32-9	bis(2-chloroisopropyl)Ether	5 [redacted]
[redacted]	[redacted]	[redacted]
621-64-7	N-Nitroso-Di-n-Propylamine	5 [redacted]
67-72-1	Hexachloroethane	5 [redacted]
98-95-3	Nitrobenzene	2 [redacted]
78-59-1	Isophorone	2 [redacted]
88-75-5	2-Nitrophenol	3 [redacted]
105-67-9	2,4-Dimethylphenol	3 [redacted]
[redacted]	[redacted]	[redacted]
111-91-1	bis(-2-Chloroethoxy)Methane	5 [redacted]
120-83-2	2,4-Dichlorophenol	3 [redacted]
120-82-1	1,2,4-Trichlorobenzene	2 [redacted]
91-20-3	Naphthalene	2 [redacted]
[redacted]	[redacted]	[redacted]
87-68-3	Hexachlorobutadiene	5 [redacted]
59-50-7	4-Chloro-3-Methylphenol	3 [redacted]
[redacted]	[redacted]	[redacted]
77-47-4	Hexachlorocyclopentadiene	5 [redacted]
88-06-2	2,4,6-Trichlorophenol	5 [redacted]
[redacted]	[redacted]	[redacted]
91-58-7	2-Chloronaphthalene	2 [redacted]
[redacted]	[redacted]	[redacted]
131-11-3	Dimethyl Phthalate	2 [redacted]
208-96-8	Acenaphthylene	2 [redacted]
[redacted]	[redacted]	[redacted]

C.A.S. Number		ug/L or ug/Kg (Circle One)
83-32-9	Acenaphthene	[redacted] 2
51-28-5	2,4-Dinitrophenol	[redacted] 8
100-02-7	4-Nitrophenol	[redacted] 8
[redacted]	[redacted]	[redacted]
121-14-2	2,4-Dinitrotoluene	[redacted] 5
606-20-2	2,6-Dinitrotoluene	[redacted] 5
84-66-2	Diethylphthalate	[redacted] 2
7005-72-3	4-Chlorophenyl-phenlyether	[redacted] 5
86-73-7	Fluorene	[redacted] 2
[redacted]	[redacted]	[redacted]
534-52-1	4,6-Dinitro-2-Methylphenol	[redacted] 8
86-30-6	N-Nitrososdiphenylamine (1)	[redacted] 2
101-55-3	4-Bromophenyl-phenylether	[redacted] 2
118-74-1	Hexachlorobenzene	[redacted] 2
87-86-5	Pentachlorophenol	[redacted] 5
85-01-8	Phenanthrene	[redacted] 2
120-12-7	Anthracene	[redacted] 2
84-74-2	Di-n-Butylphthalate	[redacted] 2
206-44-0	Fluoranthene	[redacted] 2
129-00-0	Pyrene	[redacted] 2
85-68-7	Butylbenzylphthalate	[redacted] 2
91-94-1	3,3'-Dichlorobenzidine	[redacted] 10
56-55-3	Benzo(a)Anthracene	[redacted] 2
117-81-7	bis(2-Ethylhexyl)Phthalate	[redacted] 2
218-01-9	Chrysene	[redacted] 2
117-84-0	Di-n-Octyl Phthalate	[redacted] 2
205-99-2	Benzo(b)Fluoranthene	[redacted] 3
207-08-9	Benzo(k)Fluoranthene	[redacted] 3
50-32-8	Benzo(a)Pyrene	[redacted] 3
193-39-5	Indeno(1,2,3-cd)Pyrene	[redacted] 3
53-70-3	Dibenzo(a,h)Anthracene	[redacted] 3
191-24-2	Benzo(g,h,i)Perylene	[redacted] 3
92-87-5	Benzidine	[redacted] 50

(1)-Cannot be separated from diphenylamine

LOD

WARNING: FMP -6 on ::

.....

Lab Name : M2M LABS
Case No : SEMI-VOL

Sample Number

ORGANICS ANALYSIS DATA SHEET
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted:
Date Analyzed:
Conc/Dil Factor: 1
Percent Moisture (Decanted) .....

GPC Cleanup __ Yes __ No
Separatory Funnel Extraction __ Yes
Continuous Liquid-Liquid Extraction __ Yes

C.A.S. Number		ug/L or ug/Kg (Circle One)
62-53-3	Aniline	150
65-75-9	N-Nitrosodimethylamine	150
108-95-2	Phenol	150
111-44-4	bis(-2-Chloroethyl)Ether	100
95-57-8	2-Chlorophenol	150
541-73-1	1,3-Dichlorobenzene	100
106-46-7	1,4-Dichlorobenzene	100
[redacted]	[redacted]	[redacted]
95-50-1	1,2-Dichlorobenzene	100
[redacted]	[redacted]	[redacted]
39638-32-9	bis(2-chloroisopropyl)Ether	250
[redacted]	[redacted]	[redacted]
621-64-7	N-Nitroso-Di-n-Propylamine	250
67-72-1	Hexachloroethane	250
98-95-3	Nitrobenzene	100
78-59-1	Isophorone	100
88-75-5	2-Nitrophenol	150
105-67-9	2,4-Dimethylphenol	150
[redacted]	[redacted]	[redacted]
111-91-1	bis(-2-Chloroethoxy)Methane	250
120-83-2	2,4-Dichlorophenol	150
120-82-1	1,2,4-Trichlorobenzene	100
91-20-3	Naphthalene	100
[redacted]	[redacted]	[redacted]
87-68-3	Hexachlorobutadiene	250
59-50-7	4-Chloro-3-Methylphenol	150
[redacted]	[redacted]	[redacted]
77-47-4	Hexachlorocyclopentadiene	250
88-06-2	2,4,6-Trichlorophenol	250
[redacted]	[redacted]	[redacted]
91-58-7	2-Chloronaphthalene	100
[redacted]	[redacted]	[redacted]
131-11-3	Dimethyl Phthalate	100
208-96-8	Acenaphthylene	100
[redacted]	[redacted]	[redacted]

C.A.S. Number		ug/L or ug/Kg (Circle One)
83-32-9	Acenaphthene	100
51-28-5	2,4-Dinitrophenol	400
100-02-7	4-Nitrophenol	400
[redacted]	[redacted]	[redacted]
121-14-2	2,4-Dinitrotoluene	250
606-20-2	2,6-Dinitrotoluene	250
84-66-2	Diethylphthalate	100
7005-72-3	4-Chlorophenyl-phenlyether	250
86-73-7	Fluorene	100
[redacted]	[redacted]	[redacted]
534-52-1	4,6-Dinitro-2-Methylphenol	400
86-30-6	N-Nitrososdiphenylamine (1)	100
101-55-3	4-Bromophenyl-phenylether	100
118-74-1	Hexachlorobenzene	100
87-86-5	Pentachlorophenol	250
85-01-8	Phenanthrene	100
120-12-7	Anthracene	100
84-74-2	Di-n-Butylphthalate	100
206-44-0	Fluoranthene	100
129-00-0	Pyrene	100
85-68-7	Butylbenzylphthalate	100
91-94-1	3,3'-Dichlorobenzidine	500
56-55-3	Benzo(a)Anthracene	100
117-81-7	bis(2-Ethylhexyl)Phthalate	100
218-01-9	Chrysene	100
117-84-0	Di-n-Octyl Phthalate	100
205-99-2	Benzo(b)Fluoranthene	150
207-08-9	Benzo(k)Fluoranthene	150
50-32-8	Benzo(a)Pyrene	150
193-39-5	Indeno(1,2,3-cd)Pyrene	150
53-70-3	Dibenzo(a,h)Anthracene	150
191-24-2	Benzo(g,h,i)Perylene	150
92-87-5	Benzidine	2500

(1)-Cannot be separated from diphenylamine

CONTINUING CALIBRATION CHECK
VOLATILE COMPOUNDS

Case No. _____ Calibration Date: 9/24/86

Laboratory: Ham Time: 8:30 am

Contract No. NJDEP Laboratory ID: PU6391 / PU6392

Instrument ID: OWA 1 Initial Calibration Date: 8/27/86

Minimum RF for SPCC is 0.300 Maximum %D for CCC is 25%

Compound	RF	RF_{50}	%D	CCC	SPCC
Chloromethane	2.48	2.88	15		**
Bromomethane	1.22	2.00	48		
Vinyl chloride	1.33	1.38	4	*	
Chloroethane	1.32	1.88	32		
Methylene chloride	2.49	2.28	9		
1,1-Dichloroethene	1.19	1.17	2	*	
1,1-Dichloroethane	3.61	3.34	8		**
trans-1,2-Dichloroethene	1.61	1.60	.6		
Chloroform	3.91	4.53	15	*	
1,2-Dichloroethane	3.92	4.43	14		
Trichlorofluoromethane	2.35	3.11	28		
1,1,1-Trichloroethane	0.436	0.367	17		
Carbon tetrachloride	0.229	0.326	35		
Bromodichloromethane	0.505	0.508	.6		
1,2-Dichloropropane	0.565	0.455	22	*	
trans-1,3-Dichloropropene	0.449	0.281	45		
Trichloroethene	0.484	0.500	3		
Dibromochloromethane	0.358	0.346	3		
1,1,2-Trichloroethane	0.427	0.510	18		
Benzene	1.05	1.36	26		
cis-1,3-Dichloropropene	0.452	0.295	42		
2-Chloroethylvinylether	0.397	0.472	17		
Bromoform	0.369	0.313	16		**
Tetrachloroethene	0.583	0.585	.3		
1,1,2,2-Tetrachloroethane	0.814	0.890	9		**
Toluene	0.825	0.895	8	*	
Chlorobenzene	1.19	1.22	2		**
Ethylbenzene	0.524	0.552	5	*	
meta-dichlorobenzene	0.748	.788	5		
ortho-dichlorobenzene	0.673	.733	9		
para-dichlorobenzene	0.836	.898	7		

*** taken from PU6392

RF_{50} - Response Factor from daily standard file at 50 nanograms
RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

FOR SAMPLES

CD 910-SED1 CD 910-SED2 CD 910-S1 CD 910-S2 CD 910-S3

CONTINUING CALIBRATION CHECK
VOLATILE COMPOUNDS

Case No. _____

Laboratory: HZM

Contract No. NJDEP

Instrument ID: GWA1

Calibration Date: 9/26/86

Time: 11:55 AM

Laboratory ID: PA6425/PA6426

Initial Calibration Date: 8/27/86

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	RF	RF_{50}	%D	CCC	SPCC
Chloromethane	2.48	3.06	21		**
Bromomethane	1.22	1.67	31		
Vinyl chloride	1.33	1.21	9	*	
Chloroethane	1.32	1.42	7		
Methylene chloride	2.49	2.03	20		
1,1-Dichloroethane	1.19	1.34	12	*	
1,1-Dichloroethane	3.61	3.06	17		**
trans-1,2-Dichloroethene	1.61	2.19	31		
Chloroform	3.91	3.67	6	*	
1,2-Dichloroethane	3.92	3.35	16		
Trichlorofluoromethane	2.35	2.36	1		
1,1,1-Trichloroethane	0.436	0.437	1		
Carbon tetrachloride	0.329	0.280	20		
Bromodichloromethane	0.505	0.640	24		
1,2-Dichloropropene	0.565	0.488	15	*	
trans-1,3-Dichloropropene	0.444	0.482	8		
Trichloroethene	0.484	0.455	6		
Dibromochloromethane	0.258	0.505	34		
1,1,2-Trichloroethane	0.427	0.591	33		
Benzene	1.05	1.64	44		
cis-1,3-Dichloropropene	0.452	0.534	17		
2-Chloroethylvinylether	0.397	0.537	30		
Bromoform	0.369	0.403	9		
Tetrachloroethene	0.583	0.853	38		**
1,1,2,2-Tetrachloroethane	0.514	0.780	4		
Toluene	0.825	0.996	19	*	**
Chlorobenzene	1.19	1.46	22		
Ethylbenzene	0.524	0.612	16	*	
meta-dichlorobenzene	0.748	0.940	23		
ortho-dichlorobenzene	0.673	0.767	13		
para-dichlorobenzene	0.836	1.19	25		

* Taken from PA6426

RF_{50} - Response Factor from daily standard file at 50 nanograms
RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

INITIAL CALIBRATION DATA
VOLATILE COMPOUNDS

Case No. NJDEP Instrument ID: OWA 1

Laboratory: H2M Calibration Date: 8/27/86

Contract No.

Minimum RF for SPCC is 0.3000 Maximum % RSD for CCC is 30%

Laboratory ID	PU6267	PU6266	PU6268	PU6269	PU6270			
Compound	RF_{20}	RF_{50}	RF_{100}	RF_{150}	RF_{200}	$\overline{RF}$	%RSD	CCC* SPCC**
Chloromethane	2.24	2.53	2.16	2.18	2.70	2.48	10	**
Bromomethane	0.945	1.25	0.785	1.42	1.22	1.12	20	
Vinyl chloride	1.02	1.32	1.06	1.75	1.52	1.33	21	*
Chloroethene	1.31	1.39	1.28	1.29	1.32	1.32	3	
Methylene chloride	2.82	2.64	2.72	2.45	1.82	2.49	14	
1,1-Dichloroethene	1.15	1.09	1.24	1.24	1.19	1.19	5	*
1,1-Dichloroethane	3.62	3.71	3.64	3.62	3.46	3.61	2	**
trans-1,2-Dichloroethene	1.60	1.59	1.70	1.66	1.51	1.61	4	
Chloroform	3.80	3.74	4.08	4.13	3.78	3.91	5	*
1,2-Dichloroethane	3.98	3.88	4.12	4.02	3.61	3.92	5	
Trichlorofluoromethane	2.42	2.31	2.49	2.29	2.26	2.35	4	
1,1,1-Trichloroethane	0.472	0.579	0.415	0.490	0.474	0.436	8	
Carbon tetrachloride	0.205	0.187	0.229	0.256	0.266	0.229	13	
Bromodichloromethane	0.393	0.398	0.514	0.591	0.627	0.505	19	
1,2-Dichloropropane	0.533	0.509	0.574	0.608	0.577	0.565	7	*
trans-1,3-Dichloropropene	0.345	0.364	0.443	0.514	0.653	0.444	18	
Trichloroethene	0.465	0.429	0.494	0.518	0.513	0.484	7	
Dibromochloromethane	0.245	0.252	0.366	0.434	0.495	0.358	28	
1,1,2-Trichloroethane	0.395	0.358	0.456	0.464	0.464	0.427	10	
Benzene	1.11	1.06	1.14	0.899	1.02	1.05	8	
cis-1,3-Dichloropropene	0.325	0.360	0.466	0.534	0.577	0.452	21	
2-Chloroethylvinylether	0.325	0.462	0.420	0.402	0.374	0.397	12	
Bromoform	0.378	0.372	0.355	0.342	0.396	0.369	6	**
Tetrachloroethene	0.583	0.526	0.608	0.645	0.551	0.583	7	
1,1,2,2-Tetrachloroethane	0.725	0.601	0.865	0.990	0.887	0.854	17	**
Toluene	0.883	0.815	0.897	0.755	0.775	0.825	7	*
Chlorobenzene	1.25	1.18	1.29	1.07	1.14	1.19	7	**
Ethylbenzene	0.523	0.512	0.578	0.505	0.504	0.524	5	*
meta-dichlorobenzene	0.735	0.869	0.715	0.595	0.828	0.748	14	
ortho-dichlorobenzene	0.617	0.746	0.662	0.588	0.764	0.673	11	
para-dichlorobenzene	0.792	1.09	0.815	0.690	0.793	0.836	18	

$\overline{RF}$ - Response Factor
RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: BNA

Instrument ID: HP#1

Contractor: H2M LABORATORY

Calibration Date: ~~09/19/86~~ 8/22/86

Contract No: NJDEP 9/86

Minimum RF for SPCC is 0.05 Maximum % RSD for CCC is 30.0%

Laboratory ID:	>P2314	>P2316	>P2320	>P2322	>P2323					
	RF	RF	RF	RF	RF					
Compound	10.00	25.00	40.00	60.00	80.00	RF	% RSD	CCC	SPCC	
N-Nitrosodimethylamine	.70763	.68175	1.00888	.99122	.97318	.87253	18.692			
2-Fluorophenol (SS)	1.20621	1.24802	1.28346	1.31093	1.33345	1.27641	3.962			(Conc=208.0,208.0,208.0,208.0,208
Phenol	1.48693	1.39144	1.63375	1.07432	1.37777	1.39284	14.739	*		
Aniline	1.71023	1.58825	1.80551	1.61936	1.58283	1.66124	5.746			
bis(-2-Chloroethyl)Ether	1.55586	1.27433	1.66901	1.57061	1.35179	1.48432	11.087			
Phenol-d6 (SS)	1.38459	1.45753	1.68711	1.57139	1.33880	1.48788	9.533			(Conc=207.9,207.9,207.9,207.9,207
2-Chlorophenol	1.28465	1.10926	1.38539	1.28240	1.19926	1.25219	8.274			
1,3-Dichlorobenzene	1.51963	1.32811	1.53559	1.43881	1.37714	1.43985	6.207			
1,4-Dichlorobenzene	1.55382	1.36658	1.49799	1.46763	1.42024	1.46125	4.911	*		
1,2-Dichlorobenzene	1.55382	1.27191	1.41363	1.42732	1.28741	1.39082	8.296			
bis(2-Chloroisopropyl)ether	1.67885	1.41831	1.69325	1.69565	1.58813	1.61484	7.334			
N-Nitroso-Di-n-Propylamine	1.10967	.93626	1.17467	1.02371	1.05807	1.06048	8.467		**	
Hexachloroethane	.62924	.56537	.65010	.58705	.61873	.61010	5.542			
Nitrobenzene-d5 (SS)	.41673	.41210	.40728	.42433	.34576	.40124	7.887			(Conc=104.0,104.0,104.0,104.0,104
Nitrobenzene	.42233	.36275	.37092	.34495	.38125	.37644	7.675			
Isophorone	.66352	.66849	.74584	.75746	.69673	.70641	6.143			
2-Nitrophenol	.16583	.16476	.15500	.18777	.16079	.16683	7.464	*		
2,4-Dimethylphenol	.25733	.21584	.23422	.19761	.23457	.22791	9.844			
bis(-2-Chloroethoxy)Methane	.44651	.40200	.43025	.38108	.43468	.41891	6.379			
2,4-Dichlorophenol	.26542	.23830	.23864	.21756	.24688	.24136	7.154	*		
1,2,4-Trichlorobenzene	.37446	.33410	.33461	.34565	.34169	.34610	4.792			
Naphthalene	1.06128	1.02334	1.05502	1.02389	1.07472	1.04765	2.202			
Hexachlorobutadiene	.23817	.20800	.22565	.22042	.22684	.22382	4.896	*		
4-Chloro-3-Methylphenol	.29113	.25880	.26168	.25617	.27722	.26900	5.512	*		
Hexachlorocyclopentadiene	.40988	.38847	.42088	.41136	.48054	.42223	8.214		**	
2,4,6-Trichlorophenol	.45108	.41327	.39194	.45692	.50220	.44308	9.611	*		
2-Chloronaphthalene	1.48181	1.21544	1.36481	1.36391	1.44973	1.37514	7.512			
2-Fluorobiphenyl (SS)	1.72030	1.55423	1.53344	1.52345	1.49152	1.56459	5.748			(Conc=112.0,112.0,112.0,112.0,112
Dimethyl Phthalate	2.19280	1.94752	1.63290	1.50440	1.76967	1.80946	14.927			
Acenaphthylene	2.42266	2.11372	2.11767	2.21658	2.26875	2.22788	5.718			
Acenaphthene	1.51112	1.34147	1.38468	1.34233	1.48873	1.41366	5.733	*		
2,4-Dinitrophenol	-	.10500	.10837	.12612	.16510	.12615	21.855		**	
4-Nitrophenol	-	.16254	.15253	.15440	.15407	.15588	2.893		**	
2,4-Dinitrotoluene	.37568	.30771	.27122	.27692	.30543	.30739	13.515			
2,6-Dinitrotoluene	.39902	.37565	.32701	.32151	.37103	.35884	9.297			
Diethylphthalate	2.58231	1.92547	1.61166	1.51835	1.82304	1.89217	22.118			

RF - Response Factor (Subscript is amount in NG)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

Initial Calibration Data
HSL Compounds

Case No: BNA

Instrument ID: HP#1

Contractor: H2M LABORATORY

Calibration Date: ~~09/19/86~~ 8/22/86

Contract No: NJDEP 9/86

Minimum RF for SPCC is 0.05 Maximum % RSD for CCC is 30.0%

Laboratory ID:	>P2314	>P2316	>P2320	>P2322	>P2323					
Compound	RF 10.00	RF 25.00	RF 40.00	RF 60.00	RF 80.00	RF	% RSD	CCC	SPCC	
4-Chlorophenyl-phenylether	1.02888	.84752	.76903	.77082	.85922	.85509	12.375			
Fluorene	1.72987	1.55596	1.49110	1.49762	1.58919	1.57275	6.160			
2,4,6-Tribromophenol (SS)	.38690	.36864	.30644	.28646	.34010	.33771	12.376			(Conc=223.4,223.4,223.4,223.4,223
4,6-Dinitro-2-methylphenol	-	.08766	.09604	.11474	.11615	.10365	13.561			
N-Nitrosodiphenylamine	.58263	.58251	.54955	.58971	.60800	.58248	3.629	*		
1,2-Diphenylhydrazine	.89200	.95207	1.00472	1.10262	1.06046	1.00237	8.368			
4-Bromophenyl-phenylether	.30233	.30170	.30902	.30581	.30643	.30506	.995			
Hexachlorobenzene	.34787	.31795	.35176	.34365	.34686	.34162	3.965			
Pentachlorophenol	-	.09532	.11463	.12673	.12956	.11656	13.358	*		
Phenanthrene	1.08091	1.05618	1.09166	1.09222	1.05625	1.07545	1.685			
Anthracene	1.09115	1.07162	1.05796	1.03666	.98885	1.04925	3.733			
Di-n-Butylphthalate	1.14219	1.09123	1.10108	1.23130	1.22386	1.15793	5.738			
Fluoranthene	.79766	.79465	.83394	.92137	.94860	.85925	8.321	*		
Terphenyl-d14 (SS)	1.12840	1.13919	.96646	.81444	.93290	.99628	13.822			(Conc=98.5,98.5,98.5,98.5,98.5)
Benzidine	-	-	.10853	.07681	.07626	.08720	21.181			
Pyrene	2.19520	1.96974	1.65781	1.39407	1.53681	1.75073	18.665			
Butylbenzylphthalate	.82521	.70699	.67647	.71050	.71211	.72626	7.877			
3,3'-Dichlorobenzidine	.23745	.23801	.36605	.40986	.41135	.33254	26.597			
Benzo(a)Anthracene	1.36123	1.05706	1.17122	1.13309	1.11814	1.16815	9.887			
bis(2-Ethylhexyl)Phthalate	1.07036	.87361	.89688	.91230	.90163	.93096	8.508			
Chrysene	1.28964	.99819	1.04291	1.05126	1.06098	1.08859	10.558			
Di-n-Octyl Phthalate	1.89931	1.82551	1.80690	1.82457	1.86495	1.84425	2.028	*		
Benzo(b)Fluoranthene	1.62552	1.39919	1.29177	1.38297	1.32163	1.40422	9.348			
Benzo(k)Fluoranthene	1.17958	1.16329	1.14148	1.03786	1.14190	1.13282	4.893			
Benzo(a)Pyrene	1.19966	1.08781	1.06117	1.09586	1.15664	1.12023	5.044	*		
Indeno(1,2,3-cd)Pyrene	1.19751	1.05041	1.44453	1.49247	1.45996	1.32898	14.674			
Dibenz(a,h)Anthracene	.95181	.97502	1.13296	1.17579	1.17342	1.08180	10.142			
Benzo(g,h,i)Perylene	1.00910	1.01233	1.19200	1.20832	1.20928	1.12621	9.382			

RF - Response Factor (Subscript is amount in NG)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

Continuing Calibration Check
HSL Compounds

Case No: BNA

Calibration Date: 09/22/86

Contractor: H2M LABORATORY

Time: 08:47

Contract No: NJDEP 9/86

Laboratory ID: >P2456

Instrument ID: HP#1

Initial Calibration Date: ~~09/19/86~~ 8/22/86

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 25.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
N-Nitrosodimethylamine	.87253	.85297	2.24			
2-Fluorophenol (SS)	1.27641	1.24470	2.48			(Conc=207.96)
Phenol	1.39284	1.60867	15.50	*		
Aniline	1.66124	.36810	77.84			
bis(-2-Chloroethyl)Ether	1.48432	1.50073	1.11			
Phenol-d6 (SS)	1.48788	1.69460	13.89			(Conc=207.89)
2-Chlorophenol	1.25219	1.20425	3.83			
1,3-Dichlorobenzene	1.43985	1.37188	4.72			
1,4-Dichlorobenzene	1.46125	1.27315	12.87	*		
1,2-Dichlorobenzene	1.39082	1.32031	5.07			
bis(2-Chloroisopropyl)ether	1.61484	1.61339	.09			
N-Nitroso-Di-n-Propylamine	1.06048	1.26429	19.22		**	
Hexachloroethane	.61010	.60991	.03			
Nitrobenzene-d5 (SS)	.40124	.46821	16.69			(Conc=104.00)
Nitrobenzene	.37644	.39293	4.38			
Isophorone	.70641	.82660	17.02			
2-Nitrophenol	.16683	.18298	9.68	*		
2,4-Dimethylphenol	.22791	.21154	7.18			
bis(-2-Chloroethoxy)Methane	.41891	.43295	3.35			
2,4-Dichlorophenol	.24136	.28025	16.11	*		
1,2,4-Trichlorobenzene	.34610	.31579	8.76			
Naphthalene	1.04765	1.01961	2.68			
Hexachlorobutadiene	.22382	.23113	3.27	*		
4-Chloro-3-Methylphenol	.26900	.32478	20.74	*		
Hexachlorocyclopentadiene	.42223	.28368	32.81		**	
2,4,6-Trichlorophenol	.44308	.35085	20.82	*		
2-Chloronaphthalene	1.37514	1.28549	6.52			
2-Fluorobiphenyl (SS)	1.56459	1.77792	13.63			(Conc=112.04)
Dimethyl Phthalate	1.80946	1.95705	8.16			
Acenaphthylene	2.22788	2.12879	4.45			
Acenaphthene	1.41366	1.34904	4.57	*		
2,4-Dinitrophenol	.12615	.13551	7.42		**	
4-Nitrophenol	.15588	.10568	32.21		**	
2,4-Dinitrotoluene	.30739	.34248	11.42			
2,6-Dinitrotoluene	.35884	.38562	7.46			
Diethylphthalate	1.89217	2.01447	6.46			

RF - Response Factor from daily standard file at 25.00 NG

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

Continuing Calibration Check
HSL Compounds

Case No: BNA

Calibration Date: 09/22/86

Contractor: H2M LABORATORY

Time: 08:47

Contract No: NJDEP 9/86

Laboratory ID: >P2456

Instrument ID: HP#1

Initial Calibration Date: ~~09/19/86~~ 8/22/86

Minimum $\overline{RF}$ for SPCC is 0.05

Maximum % Diff for CCC is 25.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
4-Chlorophenyl-phenylether	.85509	.81196	5.04			
Fluorene	1.57275	1.55102	1.38			
2,4,6-Tribromophenol (SS)	.33771	.27510	18.54			(Conc=223.42)
4,6-Dinitro-2-methylphenol	.10365	.11849	14.32			
N-Nitrosodiphenylamine	.58248	.53801	7.63	*		
1,2-Diphenylhydrazine	1.00237	.98091	2.14			
4-Bromophenyl-phenylether	.30506	.28048	8.06			
Hexachlorobenzene	.34162	.31926	6.54			
Pentachlorophenol	.11656	.10571	9.31	*		
Phenanthrene	1.07545	1.04511	2.82			
Anthracene	1.04925	.99098	5.55			
Di-n-Butylphthalate	1.15793	1.20438	4.01			
Fluoranthene	.85925	.82608	3.86	*		
Terphenyl-d14 (SS)	.99628	.88158	11.51			(Conc=98.49)
Benzidine	.08720	-	-			
Pyrene	1.75073	1.54577	11.71			
Butylbenzylphthalate	.72626	.66664	8.21			
3,3'-Dichlorobenzidine	.33254	.17301	47.97			
Benzo(a)Anthracene	1.16815	.99878	14.50			
bis(2-Ethylhexyl)Phthalate	.93096	.83762	10.03			
Chrysene	1.08859	.97799	10.16			
Di-n-Octyl Phthalate	1.84425	1.55066	15.92	*		
Benzo(b)Fluoranthene	1.40422	1.16010	17.38			
Benzo(k)Fluoranthene	1.13282	.89930	20.61			
Benzo(a)Pyrene	1.12023	.91906	17.96	*		
Indeno(1,2,3-cd)Pyrene	1.32898	1.15625	13.00			
Dibenz(a,h)Anthracene	1.08180	.85431	21.03			
Benzo(g,h,i)Perylene	1.12621	.94838	15.79			

RF - Response Factor from daily standard file at 25.00 NG

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

Continuing Calibration Check
HSL Compounds

Case No: BNA

Calibration Date: 10/06/86

ntractor: H2M LABORATORY

Time: 17:09

Contract No: NJDEP 9/86

Laboratory ID: >P2499

Instrument ID: HP#1

Initial Calibration Date: ~~09/19/86~~ 8/22/86

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 25.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
N-Nitrosodimethylamine	.87253	.91446	4.81			
2-Fluorophenol (SS)	1.27641	1.11208	12.87			(Conc=207.96)
Phenol	1.39284	1.68820	21.21	*		
Aniline	1.66124	1.35999	18.13			
bis(-2-Chloroethyl)Ether	1.48432	1.70661	14.98			
Phenol-d6 (SS)	1.48788	1.28986	13.31			(Conc=207.89)
2-Chlorophenol	1.25219	1.34080	7.08			
1,3-Dichlorobenzene	1.43985	1.52572	5.96			
1,4-Dichlorobenzene	1.46125	1.50756	3.17	*		
1,2-Dichlorobenzene	1.39082	1.51081	8.63			
bis(2-Chloroisopropyl)ether	1.61484	1.70616	5.66			
N-Nitroso-Di-n-Propylamine	1.06048	1.19595	12.78		**	
Hexachloroethane	.61010	.68035	11.51			
Nitrobenzene-d5 (SS)	.40124	.36987	7.82			(Conc=104.00)
trobenzene	.37644	.44670	18.67			
isophorone	.70641	.88040	24.63			
2-Nitrophenol	.16683	.17639	5.73	*		
2,4-Dimethylphenol	.22791	.28395	24.58			
bis(-2-Chloroethoxy)Methane	.41891	.47567	13.55			
2,4-Dichlorophenol	.24136	.27336	13.26	*		
1,2,4-Trichlorobenzene	.34610	.43376	25.33			
Naphthalene	1.04765	1.24992	19.31			
Hexachlorobutadiene	.22382	.23899	6.78	*		
4-Chloro-3-Methylphenol	.26900	.31549	17.28	*		
Hexachlorocyclopentadiene	.42223	.40206	4.78		**	
2,4,6-Trichlorophenol	.44308	.53609	20.99	*		
2-Chloronaphthalene	1.37514	1.53106	11.34			
2-Fluorobiphenyl (SS)	1.56459	1.56372	.06			(Conc=112.04)
Dimethyl Phthalate	1.80946	2.09659	15.87			
Acenaphthylene	2.22788	2.56061	14.94			
Acenaphthene	1.41366	1.56496	10.70	*		
2,4-Dinitrophenol	.12615	.05465	56.68		**	
4-Nitrophenol	.15588	.15185	2.59		**	
2,4-Dinitrotoluene	.30739	.36322	18.16			
2,6-Dinitrotoluene	.35884	.41718	16.26			
Diethylphthalate	1.89217	2.18986	15.73			

RF - Response Factor from daily standard file at 25.00 NG

- Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

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Continuing Calibration Check
HSL Compounds

Case No: BNA

Calibration Date: 10/06/86

Contractor: H2M LABORATORY

Time: 17:09

Contract No: NJDEP 9/86

Laboratory ID: >P2499

Instrument ID: HP#1

Initial Calibration Date: ~~09/19/86~~ 8/22/86

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 25.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
4-Chlorophenyl-phenylether	.85509	.99601	16.48			
Fluorene	1.57275	1.87439	19.18			
2,4,6-Tribromophenol (SS)	.33771	.32969	2.37			(Conc=223.42)
4,6-Dinitro-2-methylphenol	.10365	.08807	15.03			
N-Nitrosodiphenylamine	.58248	.58998	1.29	*		
1,2-Diphenylhydrazine	1.00237	.92604	7.62			
4-Bromophenyl-phenylether	.30506	.37993	24.54			
Hexachlorobenzene	.34162	.43789	28.18			
Pentachlorophenol	.11656	.14519	24.57	*		
Phenanthrene	1.07545	1.21938	13.38			
Anthracene	1.04925	1.23602	17.80			
Di-n-Butylphthalate	1.15793	1.77367	53.18			
Fluoranthene	.85925	.67637	21.28	*		
Terphenyl-d14 (SS)	.99628	.69372	30.37			(Conc=98.49)
Benzidine	.08720	-	-			
Pyrene	1.75073	1.35933	22.36			
Butylbenzylphthalate	.72626	.73584	1.32			
3,3'-Dichlorobenzidine	.33254	.41635	25.20			
Benzo(a)Anthracene	1.16815	1.25184	7.16			
bis(2-Ethylhexyl)Phthalate	.93096	1.07119	15.06			
Chrysene	1.08859	1.27476	17.10			
Di-n-Octyl Phthalate	1.84425	1.82770	.90	*		
Benzo(b)Fluoranthene	1.40422	1.47743	5.21			
Benzo(k)Fluoranthene	1.13282	1.38043	21.86			
Benzo(a)Pyrene	1.12023	1.27676	13.97	*		
Indeno(1,2,3-cd)Pyrene	1.32898	1.52893	15.05			
Dibenz(a,h)Anthracene	1.08180	1.11892	3.43			
Benzo(g,h,i)Perylene	1.12621	1.25015	11.01			

RF - Response Factor from daily standard file at 25.00 NG

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

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INSTRUMENT DETECTION LIMITS

component	µg/l
alpha-BHC	0.03
beta-BHC	0.03
delta-BHC	0.03
gamma-BHC	0.03
Heptachlor	0.03
Aldrin	0.03
Heptachlor Epoxide	0.03
Endosulfan I	0.03
Dieldrin	0.04
4,4'-DDE	0.03
Endrin	0.06
Endosulfan II	0.05
4,4'-DDD	0.06
Endrin Aldehyde	0.06
Endosulfan Sulfate	0.05
4,4'-DDT	0.09
Endrin Ketone	0.06
Methoxychlor	0.40
Chlordane	0.40
Toxaphene	0.90
Aroclor 1016	0.40
Aroclor 1221	0.40
Aroclor 1232	0.40
Aroclor 1242	0.40
Aroclor 1248	0.40
Aroclor 1254	0.40
Aroclor 1260	0.40

WARNING: EMP -6 on ::

Primary Col., First Sequence

PESTICIDE EVALUATION STANDARDS SUMMARY

(Page 1)

Case No.: SEMI-VOL
Contractor No.: DEC 1/86
Date of Analysis : 9/29/86 - 9/30/86

Region : V

Laboratory : H2M LABS
Column : 1.5% OV-17 + 1.95% OV-210 ON 100 CHROMOSORB WHP
Instrument ID : Tracor 550

Evaluation Check for Linearity

LABORATORY ID	2157	2158	2159	
PESTICIDE	Calibration Factor Eval. Mix A	Calibration Factor Eval. Mix B	Calibration Factor Eval. Mix C	%RSD (<=15%)
ALDRIN	149.4	151.0	149.3	<1%
ENDRIN	86.1	89.9	87.7	1.8%
4,4'-DDT (1)	93.1	104.7	110.8	7.1%
DIBUTYL CHLORENDATE	95.6	88.9	93.1	2.9%

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	Laboratory ID	Time of Analysis	Endrin	4,4'-DDT	Combined (2)
Eval Mix B 72 Hour	2158	10:11	—	7.6	6.4
Eval Mix B	2175	20:08	4.5	6.4	5.8
Eval Mix B	2176	11:44	6.9	7.9	7.7
Eval Mix B	2188	19:13	—	5.4	3.7
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					

(1) SEE EXHIBIT E, SECTION 7.5.4
(1) SEE EXHIBIT E, SECTION 7.3.1.2.2.1

WARNING: FMP -6 on ::

Primary Col., Second Sequence

PESTICIDE EVALUATION STANDARDS SUMMARY

(Page 1)

Case No.: SEMI-VOL
Contractor No.: DEC 1/86
Date of Analysis :

Region : V

Laboratory : H2M LABS
Column : 1.5% OV-17 + 1.95% OV-210 ON 100/120 CHROMOSORB WHP
Instrument ID : TRACOR 550

Evaluation Check for Linearity

LABORATORY ID	2243	2244	2245	
PESTICIDE	Calibration Factor Eval. Mix A	Calibration Factor Eval. Mix B	Calibration Factor Eval. Mix C	%RSD (<=15%)
ALDRIN	142.5	139.0	156.0	5.2
ENDRIN	121.8	103.1	118.9	7.2
4,4'-DDT (1)	95.4	95.9	115.6	1.6
DIBUTYL CHLORENDATE	114.3	96.9	105.8	6.7

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	Laboratory ID	Time of Analysis	Endrin	4,4'-DDT	Combined (2)
Eval Mix B 72 Hour	2244	10:40	10.4	10.3	10.8
Eval Mix B	2260	20:40	3.9	11.6	9.0
Eval Mix B	2261	12:53	-	13.8	11.6
Eval Mix B	2271	20:51	-	10.1	7.1
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					

(1) SEE EXHIBIT E, SECTION 7.5.4
(1) SEE EXHIBIT E, SECTION 7.3.1.2.2.1

EXHIBIT E -6 on ::

Secondary Col.

PESTICIDE EVALUATION STANDARDS SUMMARY
(Page 1)

Case No.: SEMI-VOL
Contractor No.: DEC 1/86
Date of Analysis :

Region : V

Laboratory : HZM LABS
Column : 3% SP2100 on 100/120 SUPELCOPORT
Instrument ID : Tenco 550

Evaluation Check for Linearity

LABORATORY ID	2275	2273	2274	
PESTICIDE	Calibration Factor Eval. Mix A	Calibration Factor Eval. Mix B	Calibration Factor Eval. Mix C	%RSD (<=15%)
ALDRIN	228.6	258.8	249.2	6%
ENDRIN	201.7	203.4	211.1	2%
(1) 4,4'-DDT	107.6	117.7	120.7	6%
DIBUTYL CHLORENDATE	216.5	207.6	203.5	3%

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	Laboratory ID	Time of Analysis	Endrin	4,4'-DDT	(2) Combined
Eval Mix B 72 Hour	2273	8:52	4.0%	3.8%	3.9%
Eval Mix B	2286	18:08	8.1%	3.9%	5.5%
Eval Mix B	2300	12:30	8.0%	5.0%	6.1%
Eval Mix B	2312	20:45	13.6%	10.3	11.5%
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					
Eval Mix B					

(1) SEE EXHIBIT E, SECTION 7.5.4
(1) SEE EXHIBIT E, SECTION 7.3.1.2.2.1

First Sequence

Pesticide Evaluation Standards Summary
(Page 2)
Evaluation of Retention Time Shift for Dibutyl Chlorendate
Report all standards, blanks and samples

SMO Sample No	Lab I.D	Time of Analysis	Percent Diff	SMO Sample No	Lab I.D	Time of Analysis	Percent Diff
PS1724	2157	9:04:07	—				
PS1723	2158	9:37:05	1.3				
PS1722	2159	10:10:20	1.8				
PS1725	2160	10:48:34	2.0				
PS1726	2161	12:07:16	1.9				
PS1723 ~~PS1725~~	2175	20:08:39	2.4				
PS1723	2176	11:44:30	0.3				
PS1725	2182	15:19:43	1.2				
PS1723	2188	19:13:30	0.7				
~~PS1726~~							
660552	2190	20:21:39	1.8				
660556	2191	20:53:31	1.9				
PS1726	2194	23:12:56	1.1				

Form VIII (Continued)

25.3

Form VIII. (continued).

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Second Sequence

Pesticide Evaluation Standards Summary
(Page 2)
Evaluation of Retention Time Shift for Dibutyl Chlorendate
Report all standards, blanks and samples

SMO Sample No	Lab ID	Time of Analysis	Percent Diff	SMO Sample No	Lab ID	Time of Analysis	Percent Diff
PS1724	2243	10:06	—				
PS1723	2244	10:40	0.15				
PS1722	2245	11:13	0.9				
PS1725	2247	12:31	1.0%				
PS1726	2248	13:08	1.0%				
660556MS	2255	17:23	0.2				
660556MSD	2256	17:55	0.2				
660560	2257	18:28	0.1				
660564	2258	19:04	1.3				
B-399	2259	19:38	0.9				
PS1723	2260	20:09	1.2				
PS1723	2261	12:53	1.7				
660532	2262	14:04	0.9				
660532MS	2263	14:42	0.7				
660532MSD	2264	15:15	1.0				
660536	2265	15:47	0.2				
660540	2266	16:19	1.9				
PS1725	2267	16:54	0.3				
660544	2268	19:12:24	0.7				
660548	2269	19:46	1.8				
B-398	2270	20:18	1.9				
PS1723	2271	20:50	1.4				
PS1726	2272	21:30	1.7				

Form VIII (Continued)

Form VIII. (continued).

Secondary Column

Evaluation of Retention time Shift for Dibutyl Chlorendate
Report all standards, blanks and samples

	NYSDEC Sample No.	Lab I.D.	Time of Analysis	Percent Diff.	NYSDEC Sample No.	Lab I.D.	Time of Analysis	Percent Diff.
10/8/84	PS1723	2273	8:52	—				
	PS1722	2274	9:24	—				
STD	PS1724	2275	10:07	—				
	PS1725	2276	12:31	0	Reference (cal. STD)			
	PS1726	2277	13:03	0.38				
	PS1747	2278	13:09	1.47				
	PS1738	2279	14:14	1.05				
	PS1741	2280	14:48	1.20				
	PS1723	2286	18:08	4.62				
10/9/84	PS1725	2292	21:38	0.66				
	PS1725	2293	8:21	0.0	Reference (cal. STD)			
	PS1725	2294	9:02	0.99				
	PS1723	2300	12:30	4.85				
	CD910-S01	2301	13:01	2.3				
	CD910-SW2	2302	13:33	2.4				
	CD910-FB	2303	14:05	2.6				
	CD910-FB	2304	14:36	3.45				
	BLK399	2305	15:09	3.77				
	PS1726	2306	16:15	3.12				
	CD910-SED1	2307	16:58:16	.58				
	CD910-SED2	2308	18:22	.86				
	CD910-S1	2309	18:55	1.96				
	CD910-S2	2310	19:27	1.16				
	CD910-S3	2311	20:11	4.48				
	PS1723	2312	20:45	6.76				
	PS1725	2313	21:19	7.02				

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WARNING: FMP -6 on ::

First Sequence

PESTICIDE/PCB STANDARDS SUMMARY

Case No.: SEMI-VOL
Contractor No.: DEC 1/86

Laboratory : HZM LABS
GC Column : 1.5% OV-17+1.95% OV-210 on 100/120 CHROMOSORB WHP
GC Instrument ID : TRACOR 550

COMPOUND	DATE OF ANALYSIS 9/29/86 TIME OF ANALYSIS 10:48:34/12:07:16 LABORATORY ID 2160/2161				DATE OF ANALYSIS 9/30/86 TIME OF ANALYSIS 15:19:43/23:12:56 LABORATORY ID 2182/2194			
	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC	2.35	2.30-2.50	158.0	Q	2.45	152.1	Q	3.7
beta-BHC	3.25	3.21-3.41	93.3	Q	3.37	85.3	Q	2.4
delta-BHC	3.77	3.73-3.95	122.2	Q	3.91	144.4	Q	18.2*
gamma-BHC	2.91	2.87-3.05	110.6	Q	3.01	125.3	Q	13.3
Heptachlor	3.53	3.47-3.71	227.8	Q	3.65	214.7	Q	5.6
Aldrin	4.23/4.22	4.18-4.42	150.4/160.8	Q	4.30/4.38	147.2/166.9	Q	2.1/3.8
Heptachlor Epoxide	6.15	6.10-6.40	175.9	Q	6.35	177.9	Q	1.1
Endosulfan I	7.69	7.67-7.95	91.8	Q	7.93	93.9	Q	2.3
Dieldrin	9.24	9.19-9.59	214.7	Q	9.53	211.3	Q	1.6
4,4'-DDE	8.49	8.49-8.84	200.8	Q	8.79	294.6	Q	22.8*
Endrin	11.13	11.07-11.55	82.2	Q	11.49	89.6	Q	9.0
Endosulfan II	13.28	13.24-13.73	99.7	Q	13.69	108.9	Q	9.0
4,4'-DDD	12.68	12.64-13.14	101.3	Q	13.09	125.4	Q	23.8*
Endosulfan Sulfate	20.6	20.58-21.28	49.6	Q	21.25	89.9	Q	81.3*
4,4'-DDT	15.13	15.06-15.64	111.7	Q	15.59	112.5	Q	<1
Methoxychlor	27.45	27.33-28.41	48.3	Q	28.24	42.1	Q	12.8
Endrin Ketone	27.72	27.55-28.07	110.2	Q	28.50	147.5	Q	33.8*
Tech. Chlordane	6.83	6.53-7.13	126.2	Q				
alpha-Chlordane *								
gamma-Chlordane *								
Toxaphene	13.55	13.20-13.90	35.2					
Arochlor-1016	3.49	3.45-3.53	58.1					
Arochlor-1221	2.21	2.15-2.27	10.9					
Arochlor-1232	3.51	3.43-3.59	20.7					
Arochlor-1242	3.44	3.40-3.58	47.9					
Arochlor-1248	3.48	3.39-3.57	68.8					
Arochlor-1254	10.69	10.49-10.89	69.8					
Arochlor-1260	11.97	11.67-12.27	118.6					10.4
ENDRIN ALDEHYDE	17.15	17.06-17.74	153.6	Q	17.66	169.5	Q	10.4

* SEE EXHIBIT E, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)
QUANT. = QUANTITATION (<15% DIFFERENCE)

WARNING: FMP -6 on ::
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Second Sequence

PESTICIDE/PCB STANDARDS SUMMARY

Case No.: SEMI-VOL
Contractor No.: DEC 1/86

Laboratory : M2M LABS
GC Column : 1.5% DV-17 + 1.95% OV-210 ON 100/120 Chromosorb WHP
GC Instrument ID : TRACOR 550

COMPOUND	DATE OF ANALYSIS 10/6/86 / 10/7/86 TIME OF ANALYSIS 12:31:54 / LABORATORY ID 2247/2248				DATE OF ANALYSIS 10/7/86 TIME OF ANALYSIS 16:54:15 / LABORATORY ID 2267/2272			
	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC	2.38	2.27-2.47	144.5	Q	2.35	158.5	Q	9.7
beta-BHC	3.29	3.17-3.37	78.0	Q	3.25	84.1	Q	7.8
delta-BHC	3.82	3.69-3.91	131.7	Q	3.77	135.1	Q	2.6
gamma-BHC	2.99	2.90-3.08	110.7	Q	2.98	128.1	Q	15
Heptachlor	3.62	3.50-3.74	212.5	Q	3.62	232.7	Q	9.5
Aldrin	4.34/4.27	4.17-4.41	141.4/165.6	Q	4.34/4.22	159.4/160.4	Q	12.7/3.1
Heptachlor Epoxide	6.32	6.17-6.47	189.6	Q	6.31	187.1	Q	1.3
Endosulfan I	7.88	7.74-8.02	72.6	Q	7.88	83.3	Q	14.7
Dieldrin	9.48	9.28-9.68	202.1	Q	9.48	225.2	Q	11.4
4,4'-DDE	8.56	8.32-8.72	202.7	Q	8.47	199.1	Q	1.8
Endrin	11.44	11.20-11.68	104.6	Q	11.45	117.9	Q	12.7
Endosulfan II	13.63	13.40-13.87	105.5	Q	13.65	118.8	Q	12.6
4,4'-DDD	12.76	12.45-12.95	106.3	Q	12.64	108.1	Q	1.7
Endosulfan Sulfate	20.53	20.19-20.79	71.6	Q	20.45	79.9	Q	7.4
4,4'-DDT	15.54	15.26-15.80	106.9	Q	15.58	120.0	Q	12.3
Methoxychlor	28.23	27.75-28.83	46.5	Q	28.34	45.4	Q	2.4
Endrin Ketone	27.78	27.36-27.96	125.3	Q	27.54	130.9	Q	4.5
Tech. Chlordane	7.36	7.06-7.66	104.2	Q				
alpha-Chlordane *								
gamma-Chlordane *								
Toxaphene	13.54	13.19-13.89	37.9	Q				
Arochlor-1016	3.45	3.41-3.49	53.2	Q				
Arochlor-1221	2.21	2.15-2.27	10.9	Q				
Arochlor-1232	3.51	3.43-3.59	20.7	Q				
Arochlor-1242	3.51	3.42-3.60	53.8	Q				
Arochlor-1248	3.52	3.43-3.61	62.8	Q				
Arochlor-1254	10.81	10.61-11.01	62.5	Q				
Arochlor-1260	11.82	11.52-12.12	98.4	Q				
ENDRIN ALDEHYDE	17.16	16.73-17.41	137.6		16.98	148.7		8.1

* SEE EXHIBIT E, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)
QUANT. = QUANTITATION (<15% DIFFERENCE)

Secondary Col.

WARNING: FMP -6 on ::

PESTICIDE/PCB STANDARDS SUMMARY

Case No.: SEMI-VOL
Contractor No.: DEC 1/86

Laboratory : H2M LABS
GC Column : Sec. Col. (3% SP-2100 on 100/120 Supelcoport)
GC Instrument ID : TRACOR 550

	DATE OF ANALYSIS 10/8/86				DATE OF ANALYSIS 10/8/86, 10/9/86			
	TIME OF ANALYSIS 12:31 / 13:03				TIME OF ANALYSIS 21:38, 16:46			
	LABORATORY ID 2276 / 2277				LABORATORY ID 2292 / 2306			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC	3.11	3.03-3.11	161.8	C	3.03	185.7	C	13.8
beta-BHC	3.11	3.03-3.11		C	3.03		C	
delta-BHC	3.57	3.48-3.55	163.1	C	3.48	175.7	C	7.4
gamma-BHC	3.46	3.41-3.55	180.0	C	3.49	169.6	C	5.8
Heptachlor	5.03	4.99-5.11	286.7	C	5.06	263.3	C	8.5
Aldrin	6.02-6.05	5.87-6.11	267.5 / 284.1	C	6.03 / 5.87	270.1 / 278.5	C	<1
Heptachlor Epoxide	7.06	6.98-7.14	350.1	C	7.07	315.1	C	10.5
Endosulfan I	8.49	8.43-8.59	133.2	C	8.52	127.8	C	4.1
Dieldrin	9.67	9.50-9.86	386.7	C	9.68	388.4	C	4.3
4,4'-DDE	9.29	9.05-9.29	390.1	C	9.05	375.4	C	3.8
Endrin	10.79	10.71-10.87	195.2	C	10.79	189.1	C	3.1
Endosulfan II	10.79	10.71-10.87		C	10.79		C	
4,4'-DDD	11.40	11.10-11.40	212.9	C	11.1	209.8	C	1.5
Endosulfan Sulfate	13.43	13.03-13.43	31.3	C	13.08	37.5	C	18
4,4'-DDT	14.26	14.08-14.44	140.7	C	14.25	133.1	C	5.6
Methoxychlor	19.55	19.28-19.82	48.1	C	19.56	46.8	C	2.7
Endrin Ketone	16.85	16.39-16.85	201.2	C	16.39	197.2	C	1.9
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Arochlor-1016								
Arochlor-1221								
Arochlor-1232								
Arochlor-1242								
Arochlor-1248								
Arochlor-1254								
Arochlor-1260								

* SEE EXHIBIT E, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)
QUANT. = QUANTITATION (<15% DIFFERENCE)

WARNING: FMP -6 on ::

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PESTICIDE/PCB IDENTIFICATION

Case No.: SEMI-VOL
Contractor No.: DEC 1/86

Laboratory : H2M LABS

SAMPLE ID	PRIMARY COLUMN	PESTICIDE/ PCB	RT OF TENTATIVE ID	RT WINDOW OF APPROPRIATE STANDARD	CONFIRMATION COLUMN	RT ON CONFIRMATORY COLUMN	RT WINDOW OF APPROPRIATE STANDARD	GC/MS CONFIRMED (Y or N)
660556MS	R-3	LINDANE	2.98	2.90-3.08	Spike			
CD910-SW2/SW2Q		HEPTACHLOR	3.61	3.50-3.74	Spike			
		ALDRIN	4.31	4.17-4.41	Spike			
		ENDOSULFAN I	8.0	7.74-8.02				
		4,4'-DDE	8.69	8.32-8.72				
		DIELDRIN	9.42	9.28-9.68	Spike			
		ENDRIN	11.36	11.20-11.68	Spike			
		4,4'-DDT	15.46	15.26-15.84	Spike			
660556MSD	R-3	LINDANE	2.95	2.90-3.08	Spike	see	SW2/SW2Q	
CD910-SW2/SW2Q		HEPTACHLOR	3.58	3.50-3.74	Spike			
		ALDRIN	4.28	4.17-4.41	Spike			
		ENDOSULFAN I	7.95	7.74-8.02				
		4,4'-DDE	8.64	8.32-8.72				
		DIELDRIN	9.37	9.28-9.68	Spike			
		ENDRIN	11.31	11.20-11.68	Spike			
		4,4'-DDT	15.37	15.26-15.84	Spike			
660560	R-3	LINDANE	3.07	2.90-3.08		—	—	
CD910-TB		δ-BHC	3.76	3.69-3.91		3.38	3.25-3.40	
		4,4'-DDE	8.66	8.32-8.72		9.06	8.83-9.15	
660564	R-3	LINDANE	3.05	2.90-3.08		—	—	
CD910-AB		δ-BHC	3.74	3.69-3.91		3.34	3.25-3.37	
		4,4'-DDE	8.62	8.32-8.72		8.94	8.83-9.15	
B-399	R-3	Lindane	3.04	2.90-3.04		—	—	
		δ-BHC	3.72	3.69-3.91		3.31	3.25-3.37	
		4,4'-DDE	8.58	8.32-8.72		8.86	8.83-9.15	
660532	R-3	α-BHC	2.28	2.27-2.47		—	—	
#CD910-SED1		δ-BHC	3.89	3.69-3.91		3.30	3.25-3.37	
		Aldrin	4.40	4.17-4.41		5.90	5.87-6.11	
		ARO1254	10.93	10.61-11.01		10.8	10.55-11.15	
660532MS	R-3	α-BHC	2.28	2.27-2.47				
#CD910-SED1		LINDANE	2.99	2.90-3.04	Spike			
		β-BHC	3.36	3.17-3.37				
		δ-BHC	3.87	3.69-3.91				
		ALDRIN	4.39	4.17-4.41	Spike	see	SED-1	
		DIELDRIN	9.59	9.28-9.68	Spike			
		ENDRIN	10.85	11.20-11.68	Spike			
		4,4'-DDT	15.31	15.26-15.84	Spike			
		ARO1254	10.85	10.61-11.01				

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Pesticide/PCB Identification

Case No. _____ Laboratory HZM

Contract No. _____

SAMPLE ID	PRIMARY COLUMN	PESTICIDE/PCB	RT OF TENTATIVE ID	RT WINDOW OF APPROPRIATE STANDARD	CONFIRMATION COLUMN	RT ON CONFIRMATORY COLUMN	RT WINDOW OF APPROPRIATE STANDARD	GC/MS CONFIRMED (Y or N)
660532450	R-3	LINDANE	2.95	2.90-3.08	Spike			
D910-SED1		β-BHC	3.31	3.17-3.37				
		HEPTACHLOR	3.49	3.50-3.74	Spike			
		δ-BHC	3.79	3.69-3.91				
		ALDRIN	4.31	4.17-4.41	Spike	See	SED-1	
		DIELDRIN	9.43	9.28-9.68	Spike			
		ENDRIN	11.93	11.20-11.68	Spike			
		4,4-DDT	15.17	15.26-15.86	Spike			
		ARO1254	10.68	10.61-11.01				
60536	R-3	α-BHC	2.28	2.27-2.47	Y-Z	2.83	2.76-2.86	
CD910-SED2		β-BHC	3.34	3.17-3.37		2.83	2.76-2.86	
		HEPTACHLOR	3.54	3.50-3.74		—	—	
		δ-BHC	3.87	3.69-3.91		—	—	
		ALDRIN	4.32	4.17-4.41				
		ARO1254	10.84	10.61-11.01		10.6	10.55-11.15	
60540	R-3	LINDANE	3.08	2.90-3.08	Y-Z	3.16	3.11-3.23	
CD910-S1		β-BHC	3.27	3.17-3.27		2.79	2.76-2.86	
		δ-BHC	3.79	3.69-3.91		—	—	
		ALDRIN	4.25	4.17-4.41		—	—	
		ARO1254	10.65	10.61-11.01		10.67	10.55-11.15	
660544	R-3	β-BHC	3.22	3.17-3.37	Y-Z	2.83	2.76-2.86	
CD910-S2		δ-BHC	3.76	3.69-3.91		3.27	3.25-3.37	
		ARO1254	10.72	10.61-11.01		10.69	10.55-11.15	
		ALDRIN	4.31	4.17-4.41				
660548	R-3	α-BHC	2.44	2.27-2.47	Y-Z	—	—	
CD910-S3		β-BHC	3.27	3.17-3.37		—	—	
		δ-BHC	3.80	3.69-3.91		—	—	
		ALRIN	4.25	4.17-4.41				
		ARO1254	10.65	10.61-11.01		11.13	10.55-11.15	
B-398	R-3	LINDANE	3.05	2.90-3.08	Y-Z	—	—	
		ENDRIN	11.39	11.20-11.68		—	—	

4/84

FORM X

Form X. Pesticide/PCB Identification.

5/84

524

WARNING: FMP -6 on ::

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PESTICIDE/PCB IDENTIFICATION

Case No.: SEMI-VOL
Contractor No.: DEC 1/86

Laboratory : H2M LABS

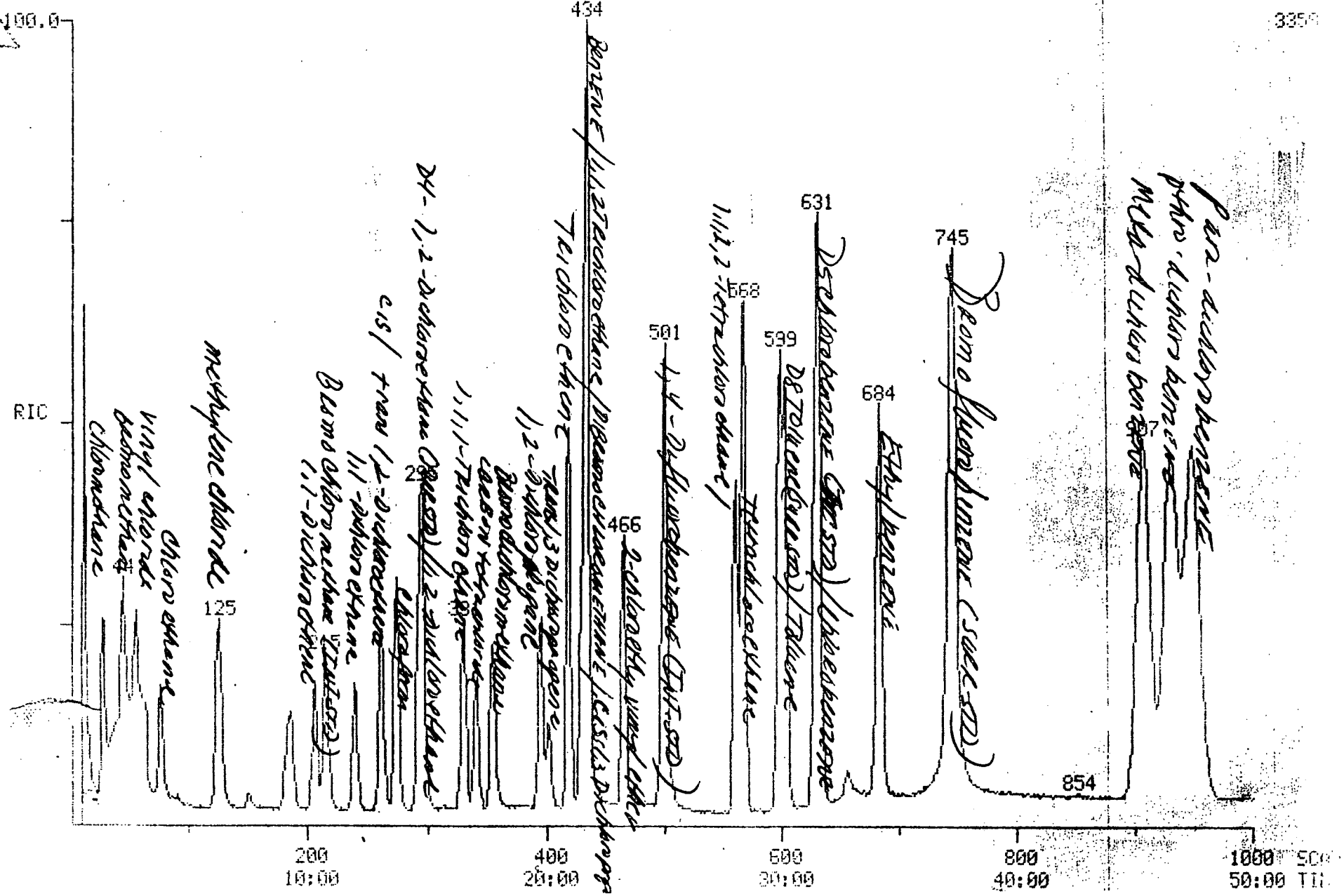
SAMPLE ID	PRIMARY COLUMN	PESTICIDE/ PCB	RT OF TENTATIVE ID	RT WINDOW OF APPROPRIATE STANDARD	CONFIRMATION COLUMN	RT ON CONFIRMATORY COLUMN	RT WINDOW OF APPROPRIATE STANDARD	GC/MS CONFIRMED (Y or N)
660552	R-3	LINDANE	3.034	2.90-3.08	Y-Z	—	—	
CD910-9W1		B-BHC	3.33	3.17-3.37	Y-Z	2.76	2.76-2.86	
		δ-BHC	3.73	3.69-3.91	Y-Z	—	—	
		~~α~~ 4,4'-DDE	8.56	8.32-8.72	Y-Z	9.0	8.83-9.0	
660556	R-3	LINDANE	3.03	2.90-3.08	Y-Z	—	—	
CD910-9W2/SW2		ENDOSULFAN I	7.881	7.74-8.02	Y-Z	8.134	8.07-8.39	
		4,4'-DDE	8.53	8.32-8.72	Y-Z	8.99	8.83-8.39	

4/84

RIC
03/24/86 8:38:00
SAMPLE: STANDARD
CONDS.:
RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6391 #1
CALI: PU6391 #2

SCANS 1 TO 1000



TOA FINISHED, 36 FOUND
FINISHED AT 4/24/86 15:25:24

524

QUANTITATION REPORT FILE: PU6391

DATA: PU6391 CI
09/24/86 8: :00
SAMPLE: STAN RD
CONDS.:
SUBMITTED BY: NJDEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D8-TOLUENE(SURR. STD)
48	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

52

4	94	44	2:12	1	0.205	A	BB	78309.	250.000	NG	2.39
5	62	55	2:45	1	0.256	A	BB	53920.	250.000	NG	2.39
6	64	76	3:48	1	0.353	A	BB	71260.	250.000	NG	2.39
7	84	125	6:15	1	0.581	A	BB	89198.	250.000	NG	2.39
8	43	149	7:27	1	0.693	A	*BB	23678.	250.000	NG	2.39
9	NOT	FOUND									
10	96	206	10:18	1	0.958	A	BV	45766.	250.000	NG	2.39
11	63	240	12:00	1	1.116	A	BB	130924.	250.000	NG	2.39
12	96	261	13:03	1	1.214	A	BB	62752.	250.000	NG	2.39
13	83	274	13:42	1	1.274	A	BB	177505.	250.000	NG	2.39
14	62	297	14:51	1	1.381	A	BB	173672.	250.000	NG	2.39
15	101	185	9:15	1	0.860	A	BB	122025.	250.000	NG	2.39
16	85	53	2:39	1	0.247	A	BB	2540.	250.000	NG	2.39
17	NOT	FOUND									
18	NOT	FOUND									
19	114	501	25:03	19	1.000	A	BB	222032.	250.000	NG	2.39
20	43	299	14:57	19	0.597	A	BB	15798.	250.000	NG	2.39
21	97	331	16:33	19	0.661	A	BB	81529.	250.000	NG	2.39
22	117	342	17:06	19	0.683	A	VB	72391.	250.000	NG	2.39
23	83	356	17:48	19	0.711	A	BB	112825.	250.000	NG	2.39
24	63	396	19:48	19	0.790	A	BB	100950.	250.000	NG	2.39
25	75	402	20:06	19	0.802	A	BB	62299.	250.000	NG	2.39
26	130	419	20:57	19	0.836	A	BV	111087.	250.000	NG	2.39
27	129	430	21:30	19	0.858	A	BB	76914.	250.000	NG	2.39
28	97	434	21:42	19	0.866	A	BB	113257.	250.000	NG	2.39
29	78	434	21:42	19	0.866	A	BB	302059.	250.000	NG	2.39
30	75	436	21:48	19	0.870	A	BV	65502.	250.000	NG	2.39
31	63	466	23:18	19	0.930	A	BB	104905.	250.000	NG	2.39
32	173	498	24:54	19	0.994	A	BB	55368.	250.000	NG	2.39
33	117	629	31:27	33	1.000	A	BB	209667.	250.000	NG	2.39
34	43	521	26:03	33	0.828	A	VB	341.	250.000	NG	2.39
35	43	562	28:06	33	0.893	A	BV	1132.	250.000	NG	2.39
36	164	567	28:21	33	0.901	A	BB	122619.	250.000	NG	2.39
37	83	561	28:03	33	0.892	A	BB	186533.	250.000	NG	2.39
38	92	604	30:12	33	0.960	A	BB	187669.	250.000	NG	2.39
39	112	632	31:36	33	1.005	A	BB	256313.	250.000	NG	2.39
40	106	684	34:12	33	1.087	A	BB	115766.	250.000	NG	2.39
41	NOT	FOUND									
42	NOT	FOUND									
43	NOT	FOUND									
44	146	907	45:21	33	1.442	A	BB	340522.	500.000	NG	4.78
45	146	930	46:30	33	1.479	A	BV	302977.	500.000	NG	4.78
46	146	948	47:24	33	1.507	A	VB	403644.	500.000	NG	4.78
47	100	598	29:54	33	0.951	A	BB	200112.	250.000	NG	2.39
48	95	744	37:12	33	1.183	A	BB	188408.	250.000	NG	2.39

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	10:45	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
2	14:39	1.00	1.363	1.00	250.00	250.00	4.663	4.663	1.00
3	1:21	1.00	0.126	1.00	250.00	250.00	2.879	2.879	1.00
4	2:12	1.00	0.205	1.00	250.00	250.00	1.998	1.998	1.00
5	2:45	1.00	0.256	1.00	250.00	250.00	1.376	1.376	1.00
6	3:48	1.00	0.353	1.00	250.00	250.00	1.818	1.818	1.00
7	6:15	1.00	0.581	1.00	250.00	250.00	2.276	2.276	1.00
8	7:27	1.00	0.693	1.00	250.00	250.00	0.604	0.604	1.00
9	7:48		0.750						
10	10:18	1.00	0.958	1.00	250.00	250.00	1.168	1.168	1.00
11	12:00	1.00	1.116	1.00	250.00	250.00	3.340	3.340	1.00
12	13:03	1.00	1.214	1.00	250.00	250.00	1.601	1.601	1.00
13	13:42	1.00	1.274	1.00	250.00	250.00	4.528	4.528	1.00
14	14:51	1.00	1.381	1.00	250.00	250.00	4.431	4.431	1.00
15	9:15	1.00	0.860	1.00	250.00	250.00	3.113	3.113	1.00
16	2:27	1.08	0.236	1.05	250.00	250.00	0.065	0.065	1.00

528

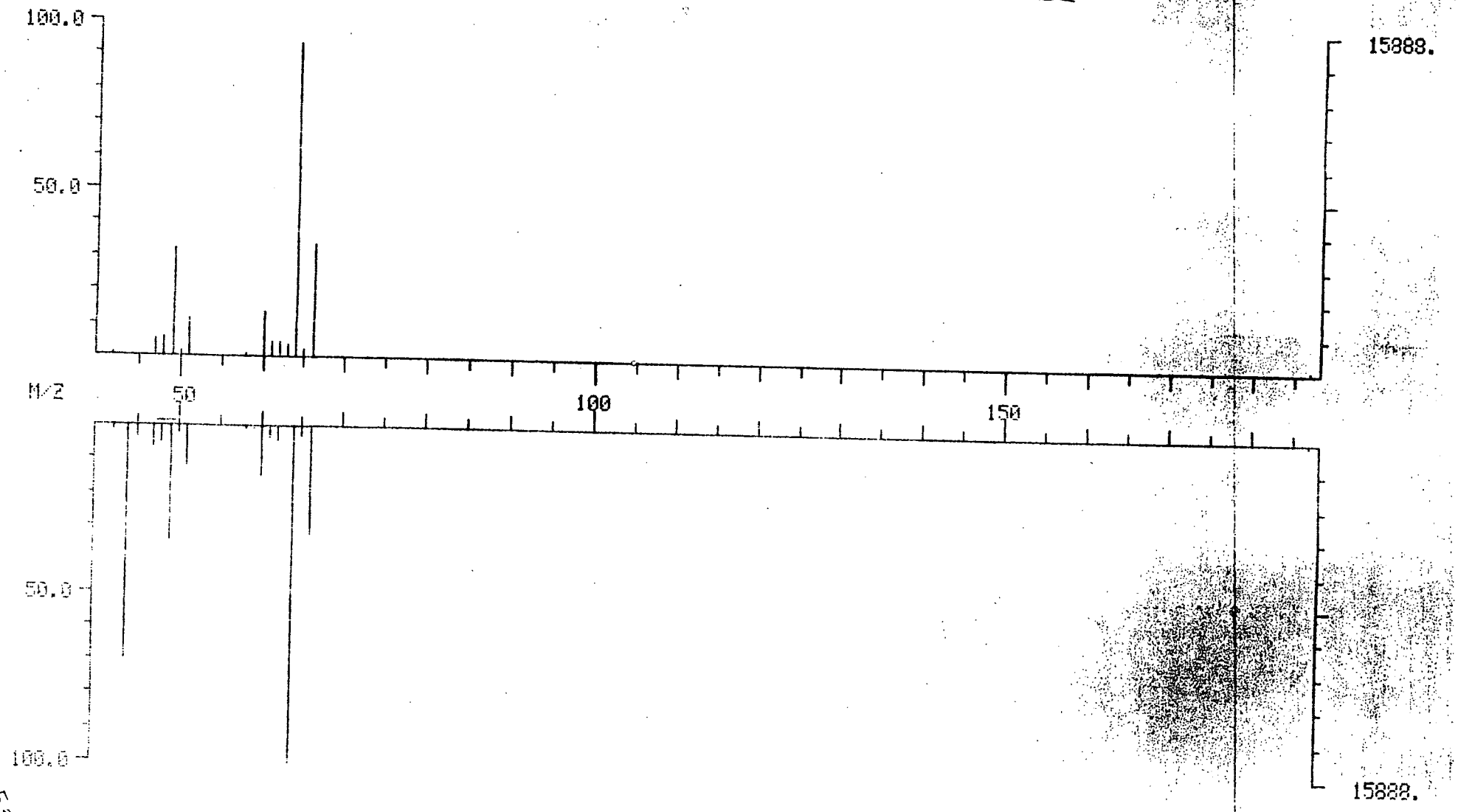
20	14:57	1.00	0.597	1.00	250.00	250.00	0.071	0.071	1.00
21	16:33	1.00	0.661	1.00	250.00	250.00	0.367	0.367	1.00
22	17:06	1.00	0.683	1.00	250.00	250.00	0.326	0.326	1.00
23	17:48	1.00	0.711	1.00	250.00	250.00	0.508	0.508	1.00
24	19:48	1.00	0.790	1.00	250.00	250.00	0.455	0.455	1.00
25	20:06	1.00	0.802	1.00	250.00	250.00	0.281	0.281	1.00
26	20:57	1.00	0.836	1.00	250.00	250.00	0.500	0.500	1.00
27	21:30	1.00	0.858	1.00	250.00	250.00	0.346	0.346	1.00
28	21:42	1.00	0.866	1.00	250.00	250.00	0.510	0.510	1.00
29	21:42	1.00	0.866	1.00	250.00	250.00	1.360	1.360	1.00
30	21:48	1.00	0.870	1.00	250.00	250.00	0.295	0.295	1.00
31	23:18	1.00	0.930	1.00	250.00	250.00	0.472	0.472	1.00
32	24:54	1.00	0.994	1.00	250.00	250.00	0.249	0.249	1.00
33	31:27	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
34	26:03	1.00	0.828	1.00	250.00	250.00	0.002	0.002	1.00
35	28:06	1.00	0.893	1.00	250.00	250.00	0.005	0.005	1.00
36	28:21	1.00	0.901	1.00	250.00	250.00	0.585	0.585	1.00
37	28:03	1.00	0.892	1.00	250.00	250.00	0.890	0.890	1.00
38	30:12	1.00	0.960	1.00	250.00	250.00	0.895	0.895	1.00
39	31:36	1.00	1.005	1.00	250.00	250.00	1.222	1.222	1.00
40	34:12	1.00	1.087	1.00	250.00	250.00	0.552	0.552	1.00
41	39:24		1.249						
42	39:45		1.260						
43	41:00		1.300						
44	45:21	1.00	1.442	1.00	500.00	500.00	0.812	0.812	1.00
45	46:30	1.00	1.479	1.00	500.00	500.00	0.723	0.723	1.00
46	47:24	1.00	1.507	1.00	500.00	500.00	0.963	0.963	1.00
47	29:54	1.00	0.951	1.00	250.00	250.00	0.954	0.954	1.00
48	37:15	1.00	1.184	1.00	250.00	250.00	0.899	0.899	1.00

DUAL MASS SPECTRUM
09/24/86 8:38:00 + 3:45
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6391 #75
CALI: PU6391 #2

BASE M/Z: 64/ 64
RIC: 33279./ 46655.

Chloroethane



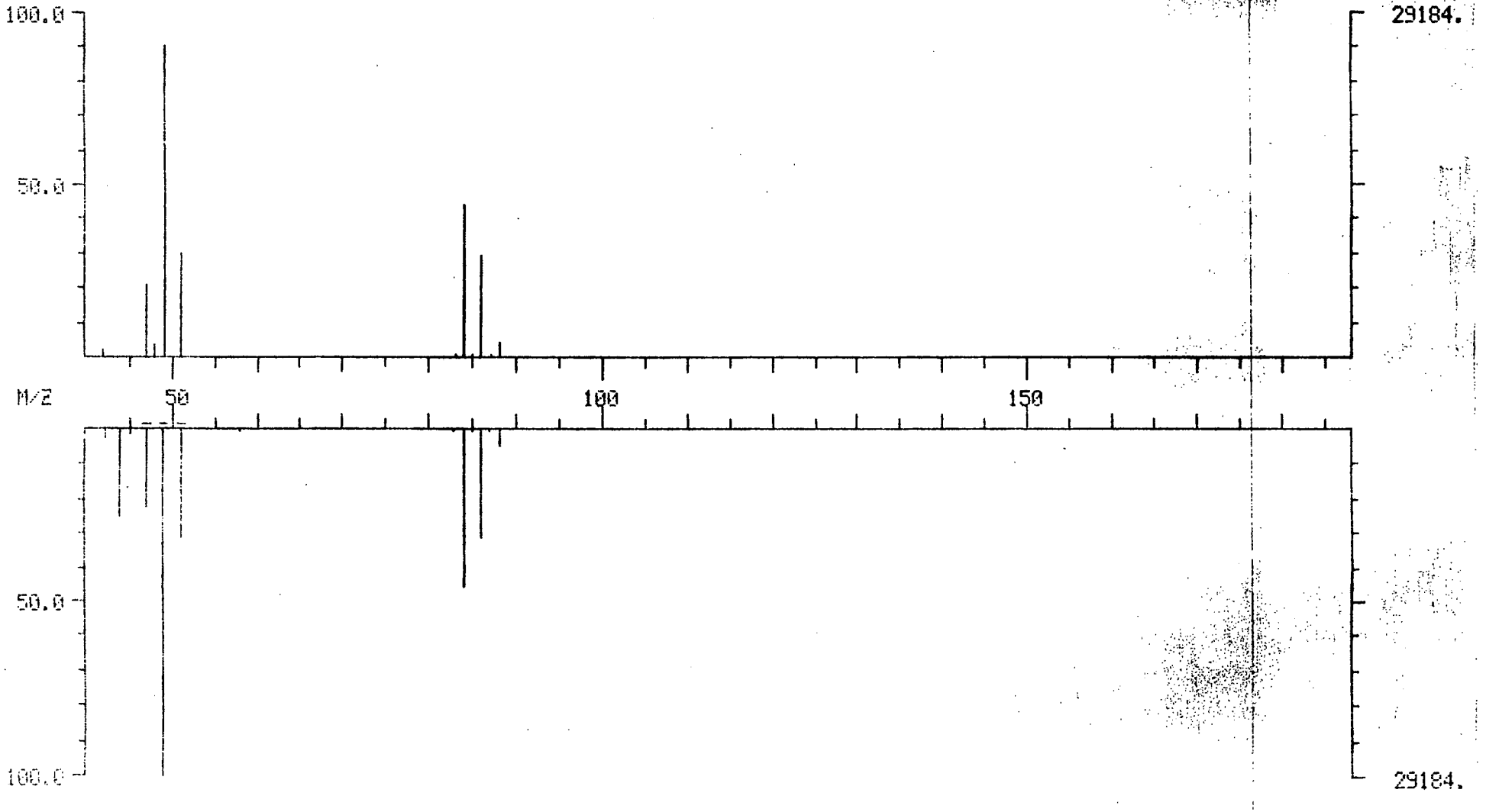
530

DUAL MASS SPECTRUM
09/24/89 8:38:00 + 6:12
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6391 #124
CALI: PU6391 #2

BASE M/Z: 49/ 49
RIC: 66175./ 77695.

methylene chloride



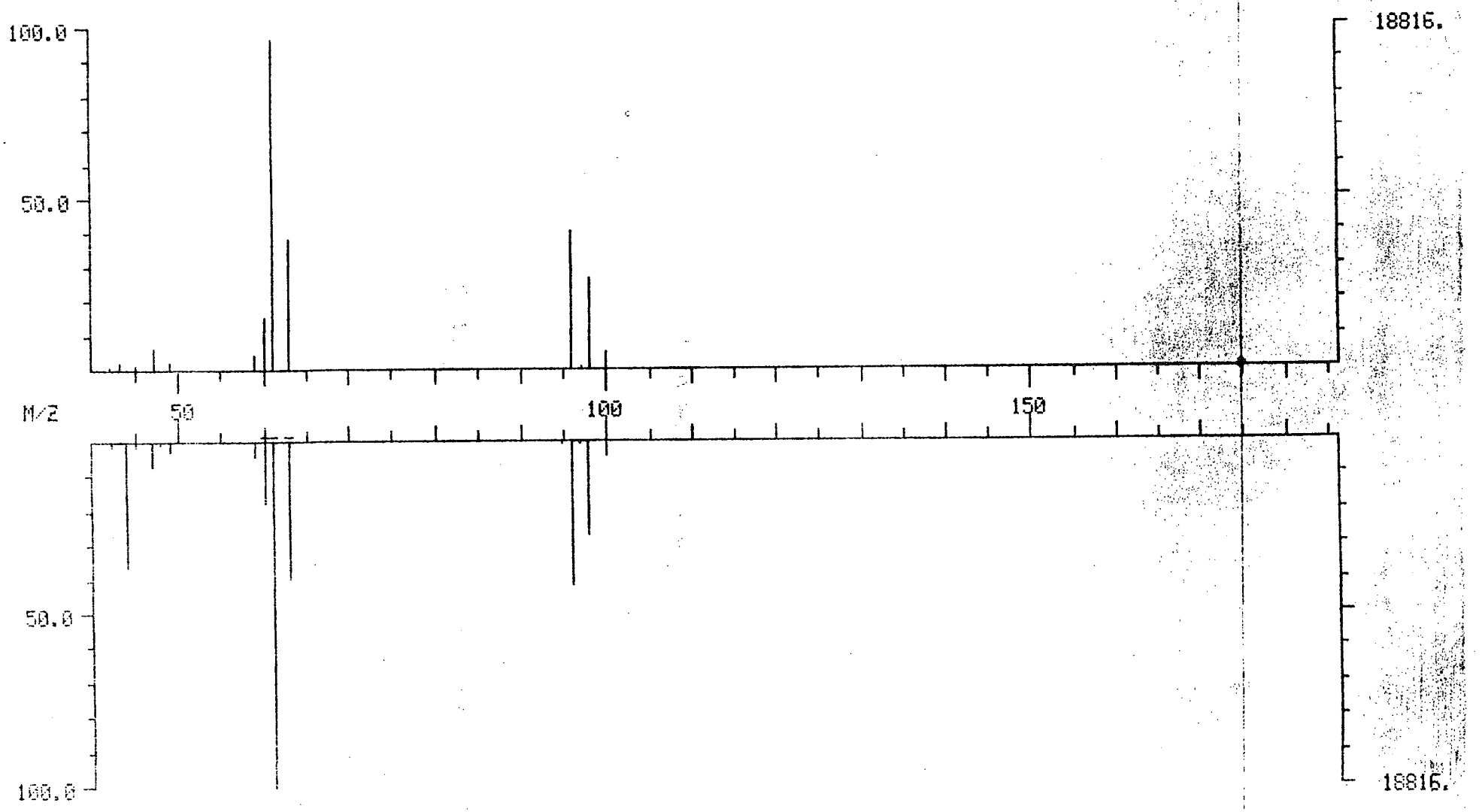
531

DUAL MASS SPECTRUM
09/24/86 8:38:00 + 10:15
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6391 #205
CALI: PU6391 #2

BASE M/Z: 61/ 61
RIC: 45119./ 53503.

1,1-Dichloroethane



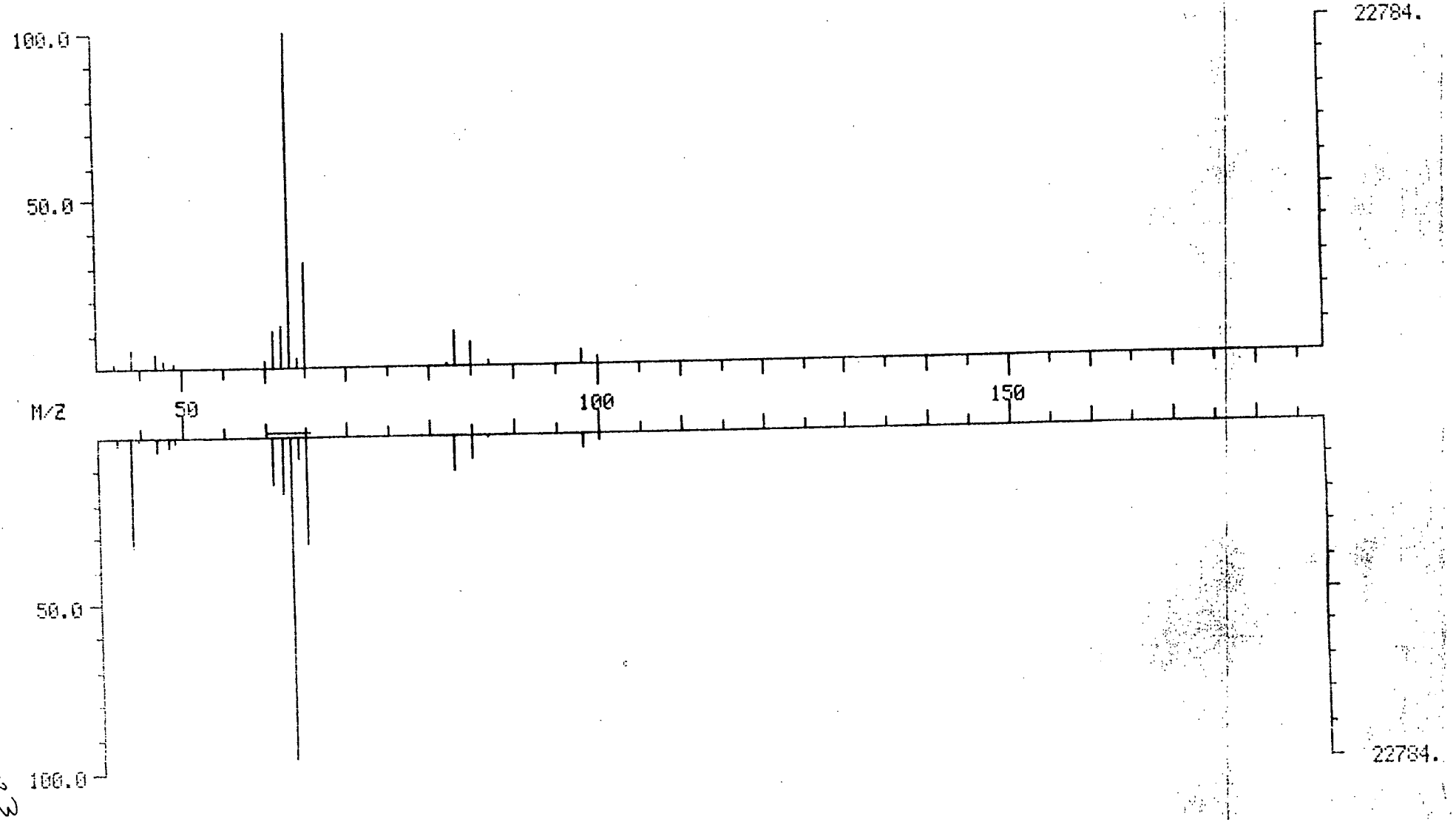
53.

DUAL MASS SPECTRUM
09/24/86 8:38:00 + 11:57
SAMPLE: STANDARD
COMDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6391 #239
CALI: PU6391 #2

BASE M/Z: 63/ 63
RIC: 45951./ 53311.

1,1-Dichloroethane



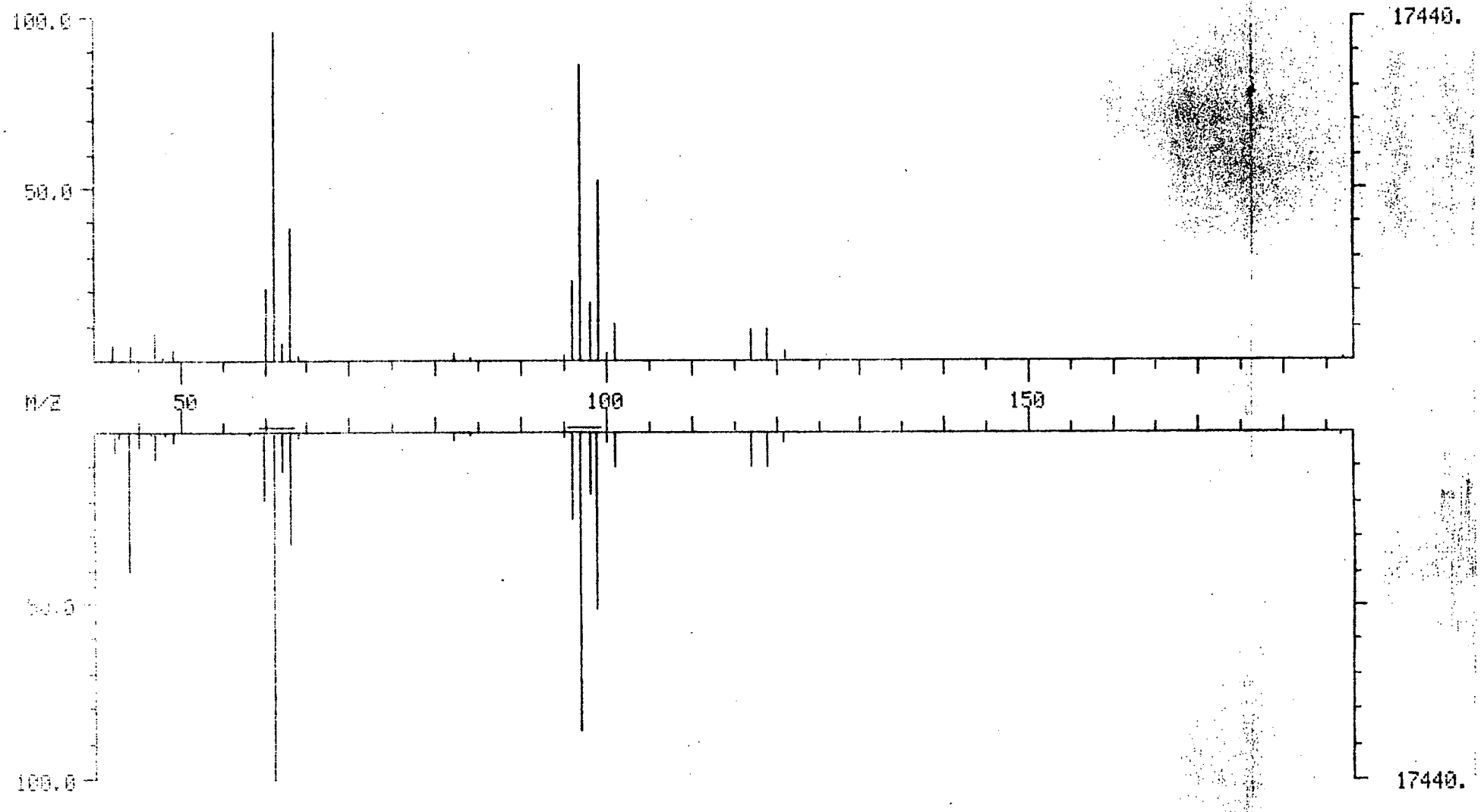
533

DUAL MASS SPECTRUM
09/24/86 8:38:00 + 16:30
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6391 #330
CALI: PU6391 #2

BASE M/Z: 61/ 61
RIC: 69631./ 78207.

1,1,1-Trichloroethane



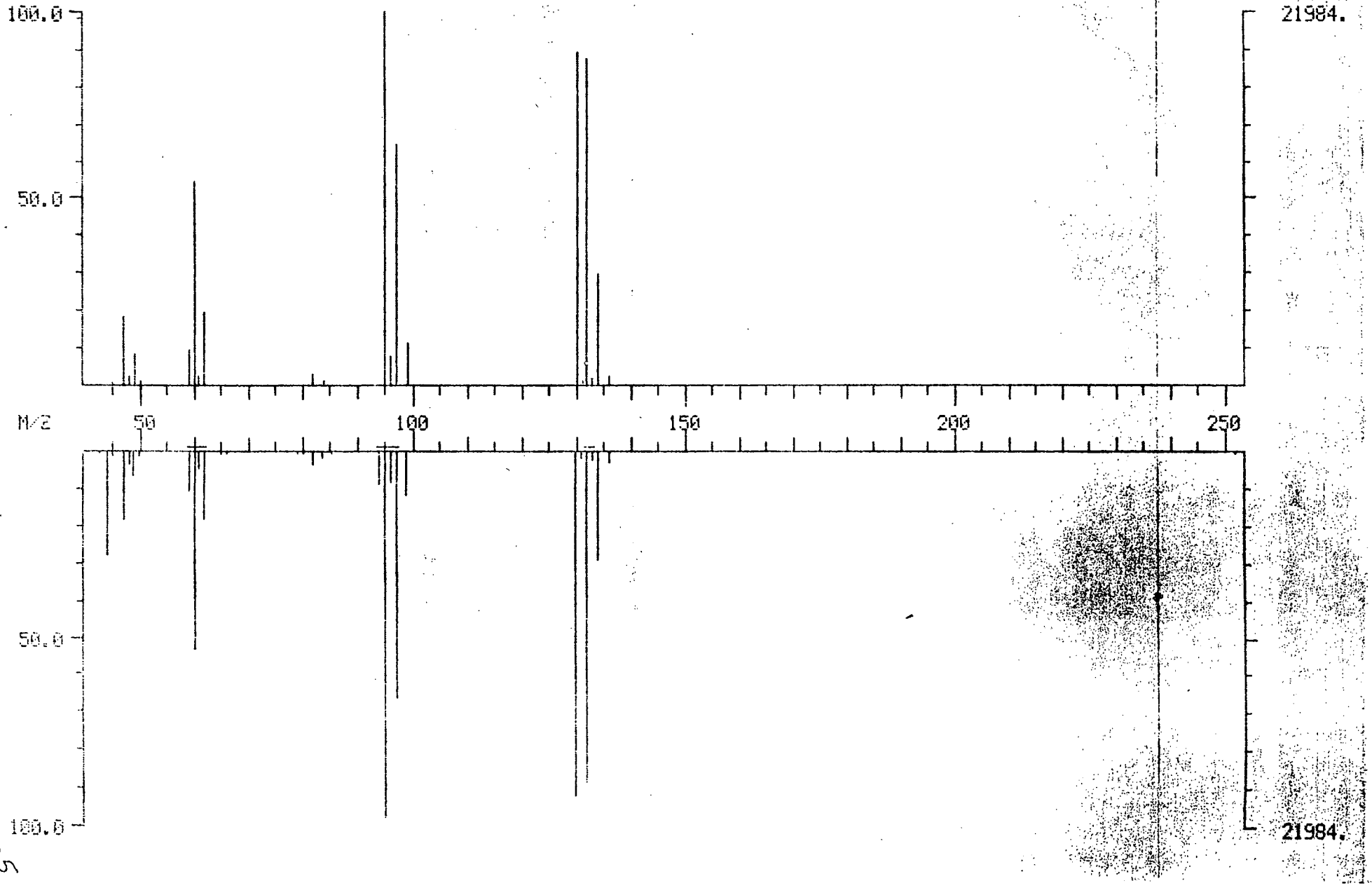
534

DUAL MASS SPECTRUM
09/24/86 9:32:00 + 20:57
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6392 #419
CALI: PU6392 #2

BASE M/Z: 95/ 95
RIC: 113407./ 123775.

Trichloroethene



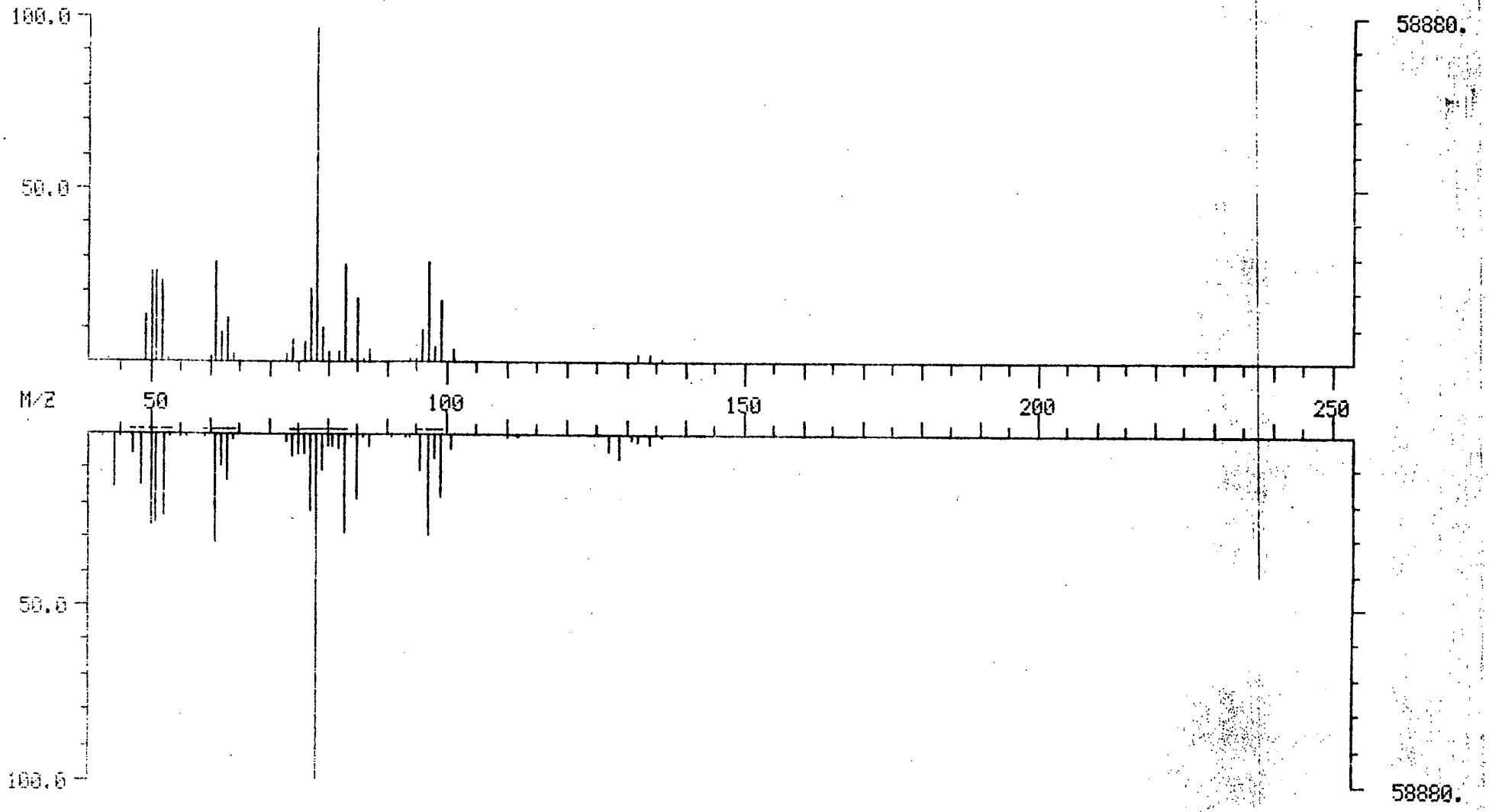
535

DUAL MASS SPECTRUM
09/21/05 8:38:00 + 21:39
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6391 #433
CALI: PU6391 #2

BASE M/Z: 78/ 78
RIC: 239359./ 279551.

Benzene



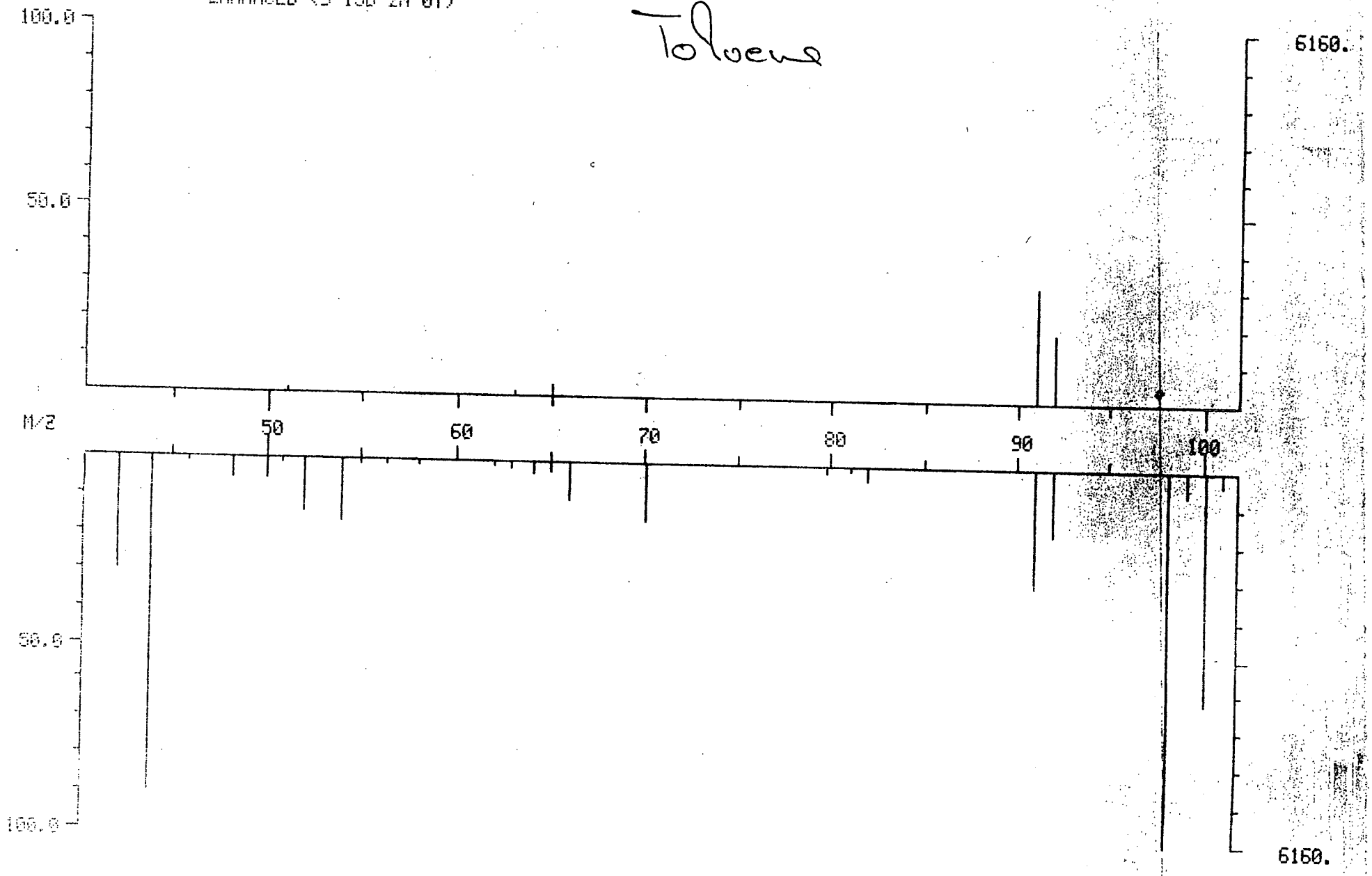
53

DUAL MASS SPECTRUM
03/24/88 9:32:00 + 30:12
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6392 #604
CALI: PU6392 #2

BASE M/Z: 91/ 98
RIC: 3351./ 26431.

Toluene



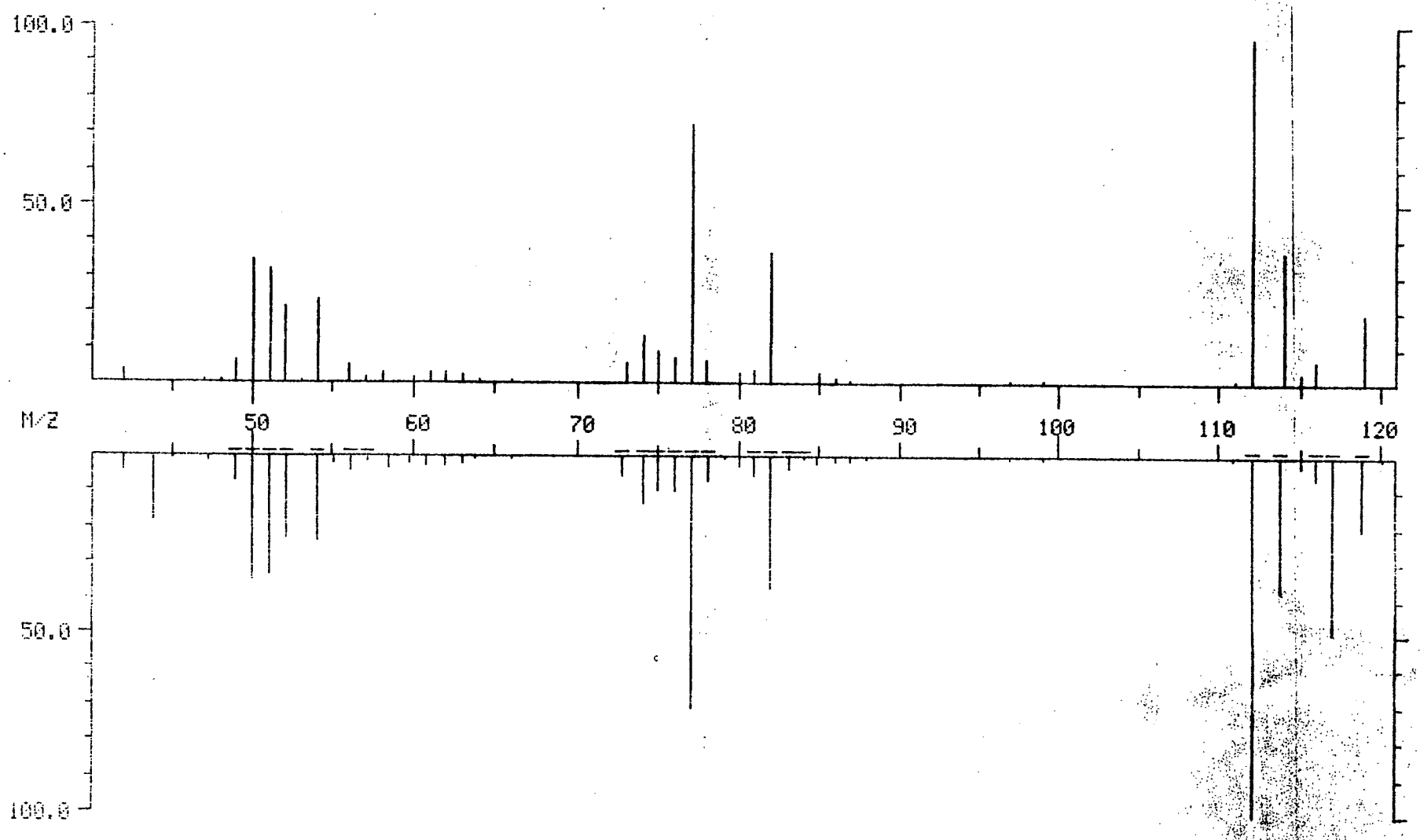
537

DUAL MASS SPECTRUM
89/04/05 8:28:09 + 31:03
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU5391 #631
BKGD: PU5391 #7

BASE M/Z: 112/ 112
RIC: 215807./ 256511.

Chlorobenzene

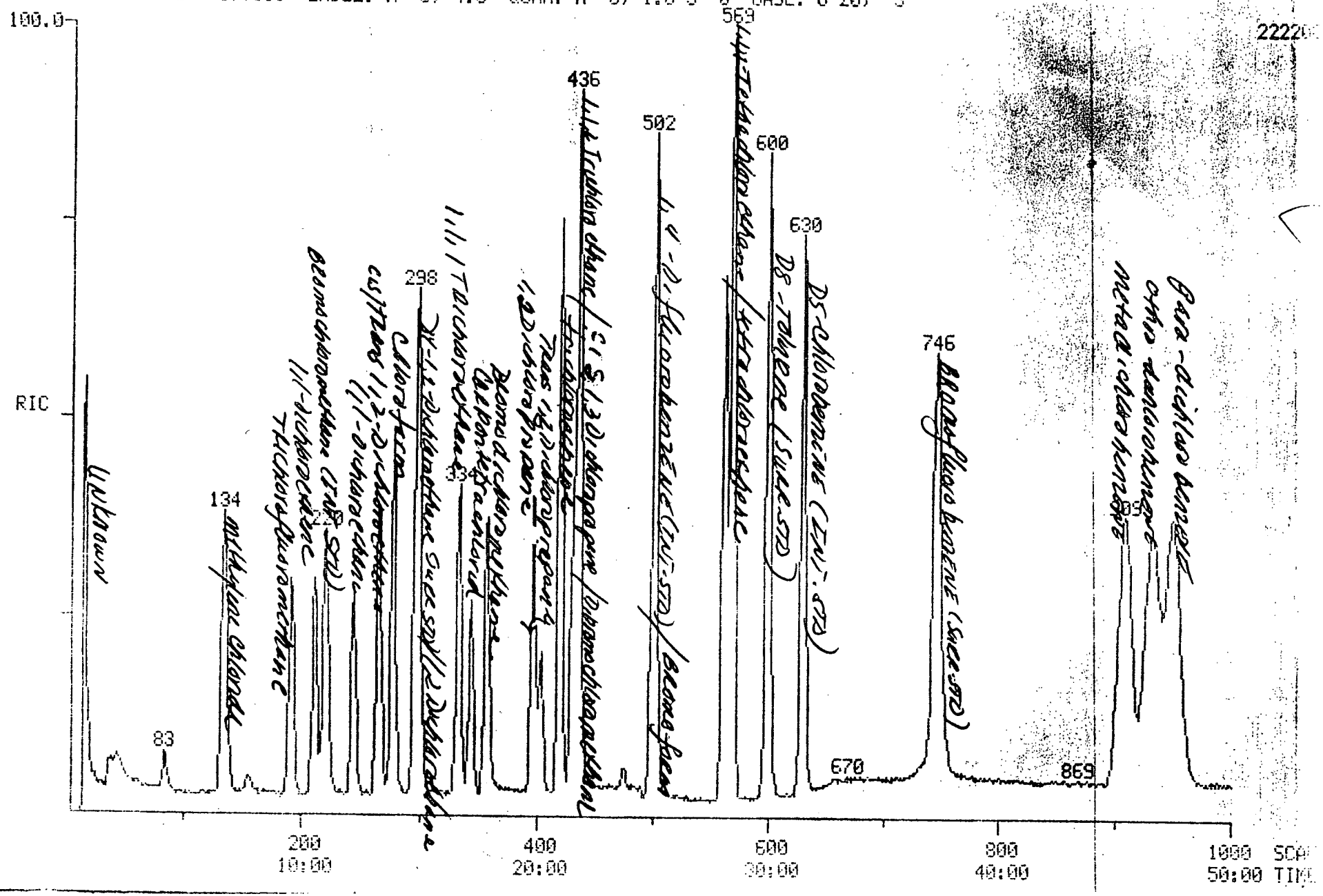


53

RIC
09/24/86 9:32:00
SAMPLE: STANDARD
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6392 #1
CALI: PU6392 #2

SCANS 1 TO 1000



TOA FINISHED, 29 FOUND
FINISHED AT: 9/24/86 15:36:13

5

QUANTITATION REPORT FILE: PU6392

DATA: PU6392.TI
09/24/86 19:32:00
SAMPLE: STANDARD
CONDS.
SUBMITTED BY: NJDEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D8-TOLUENE(SURR. STD)
48	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	/T--

4	NOT FOUND										
5	NOT FOUND										
6	64	83	4:09	1	0.377	A BB	22737.	70.856	NG	0.84	
7	84	133	6:39	1	0.605	A BB	84856.	211.261	NG	2.52	
8	43	156	7:48	1	0.709	A*BB	19926.	186.881	NG	2.23	
9	NOT FOUND										
10	96	211	10:33	1	0.959	A BB	49912.	242.188	NG	2.89	
11	63	244	12:12	1	1.109	A BB	131544.	223.122	NG	2.66	
12	96	265	13:15	1	1.205	A BB	68899.	243.824	NG	2.91	
13	83	278	13:54	1	1.264	A BB	185366.	231.905	NG	2.77	
14	62	299	14:57	1	1.359	A BB	222583.	284.612	NG	3.39	
15	101	191	9:33	1	0.868	A BB	134220.	244.264	NG	2.91	
16	85	60	3:00	1	0.273	A BB	2432.	212.629	NG	2.54	
17	NOT FOUND										
18	NOT FOUND										
19	114	502	25:06	19	1.000	A BB	195200.	250.000	NG	2.98	
20	43	302	15:06	19	0.602	A*BV	5400.	97.205	NG	1.16	
21	97	334	16:42	19	0.665	A BB	82525.	287.839	NG	3.43	
22	117	344	17:12	19	0.685	A VB	71145.	279.470	NG	3.33	
23	83	358	17:54	19	0.713	A BB	121980.	307.439	NG	3.67	
24	63	397	19:51	19	0.791	A BB	105679.	297.686	NG	3.55	
25	75	404	20:12	19	0.805	A BB	68624.	313.235	NG	3.74	
26	130	420	21:00	19	0.837	A BB	119946.	307.042	NG	3.66	
27	129	431	21:33	19	0.859	A BB	83025.	306.958	NG	3.66	
28	97	436	21:48	19	0.869	A BB	118367.	297.195	NG	3.54	
29	78	437	21:51	19	0.871	A*BB	1305.	1.229	NG	0.01	
30	75	438	21:54	19	0.873	A BB	58766.	255.122	NG	3.04	
31	NOT FOUND										
32	173	499	24:57	19	0.994	A BB	61120.	313.906	NG	3.74	
33	117	630	31:30	33	1.000	A BB	216582.	250.000	NG	2.98	
34	43	520	26:00	33	0.825	A BB	930.	660.049	NG	7.87	
35	NOT FOUND										
36	164	568	28:24	33	0.902	A BB	126409.	249.498	NG	2.98	
37	83	562	28:06	33	0.892	A BB	202535.	262.780	NG	3.13	
38	92	605	30:15	33	0.960	A BB	4782.	6.167	NG	0.07	
39	NOT FOUND										
40	NOT FOUND										
41	NOT FOUND										
42	NOT FOUND										
43	NOT FOUND										
44	146	909	45:27	33	1.443	A BB	170607.	242.510	NG	2.89	
45	146	932	46:36	33	1.479	A BV	158699.	253.538	NG	3.02	
46	146	949	47:27	33	1.506	A VB	194496.	233.234	NG	2.78	
47	100	599	29:57	33	0.951	A BB	200569.	242.571	NG	2.89	
48	95	746	37:18	33	1.184	A BB	185424.	238.185	NG	2.84	

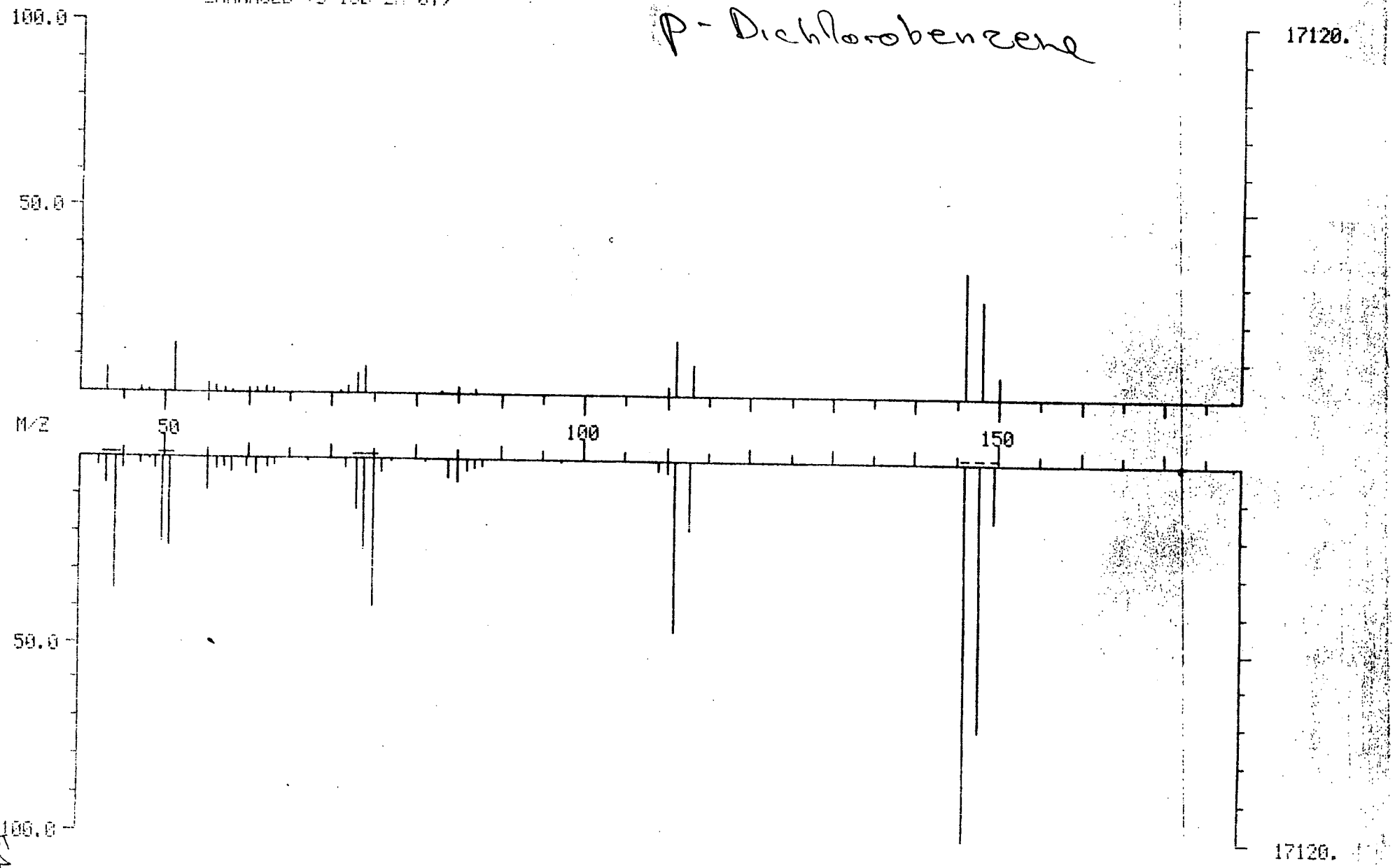
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	10:45	1.02	1.000	1.00	250.00	250.00	1.000	1.000	1.00
2	14:39	1.01	1.363	0.99	224.99	250.00	4.197	4.663	0.90
3	1:21		0.126						
4	2:12		0.205						
5	2:45		0.256						
6	3:48	1.09	0.353	1.07	70.86	250.00	0.515	1.818	0.28
7	6:15	1.06	0.581	1.04	211.26	250.00	1.923	2.276	0.85
8	7:27	1.05	0.693	1.02	186.88	250.00	0.452	0.604	0.75
9	7:48		0.750						
10	10:18	1.02	0.958	1.00	242.19	250.00	1.131	1.168	0.97
11	12:00	1.02	1.116	0.99	223.12	250.00	2.981	3.340	0.89
12	13:03	1.02	1.214	0.99	243.82	250.00	1.561	1.601	0.98
13	13:42	1.01	1.274	0.99	231.91	250.00	4.201	4.528	0.93
14	14:51	1.01	1.381	0.98	284.61	250.00	5.044	4.431	1.14
15	9:15	1.03	0.860	1.01	244.26	250.00	3.042	3.113	0.98
16	2:27	1.22	0.236	1.16	212.63	250.00	0.055	0.065	0.85

DUAL MASS SPECTRUM
03/24/86 9:32:00 + 47:27
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6392 #949
CALI: PU6392 #2

BASE M/Z: 146/ 146
RIC: 24383./ 83711.

p-Dichlorobenzene

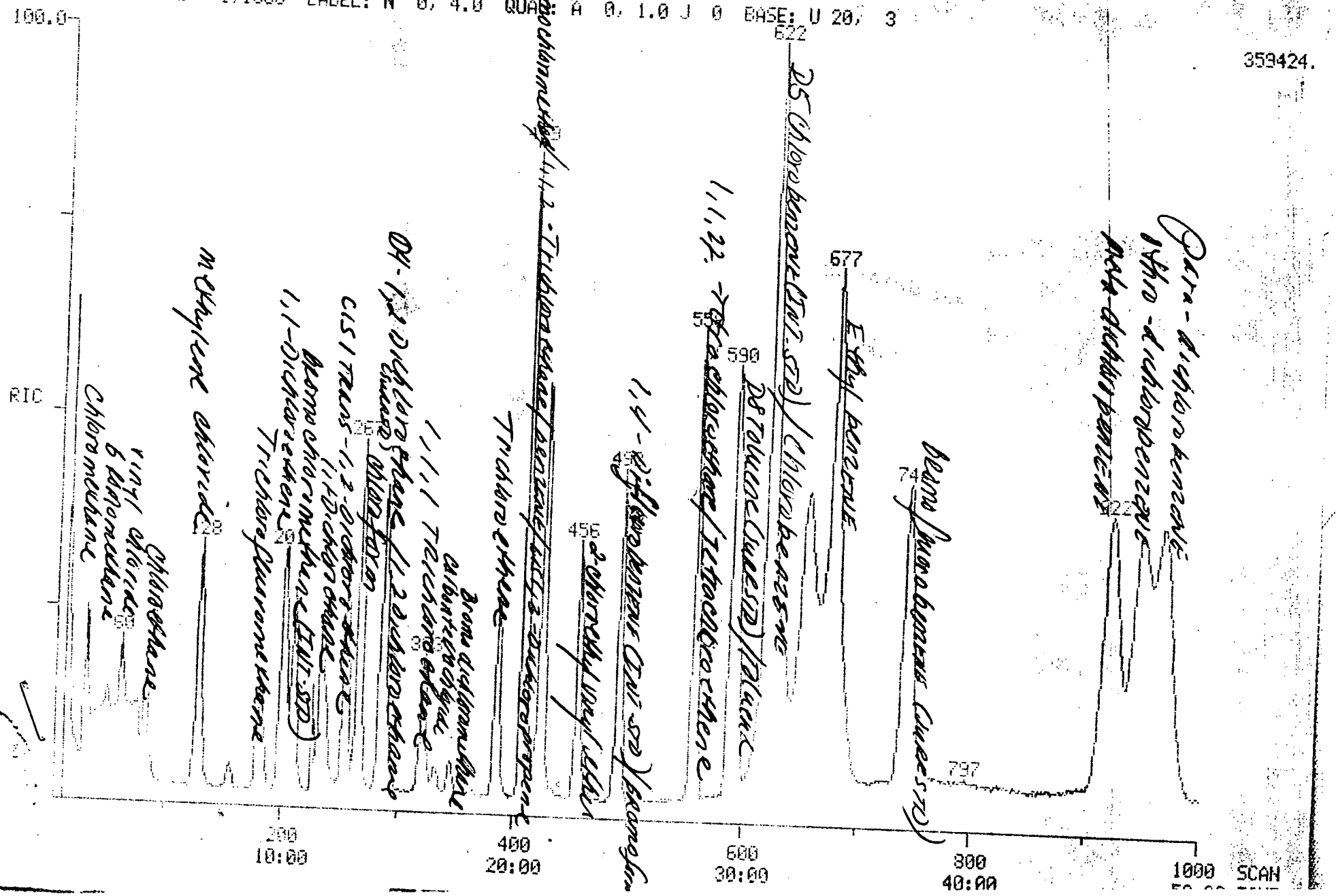


542

RIC
09/28/86 11:55:00
SAMPLE: STANDARD
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6425 #1
CALI: PU6425 #2

SCANS 1 TO 1000



FINISHED 28 FOUND
FINISHED AT 9/16/86 13:33:36

543

DATA: PU6425.TI
09/26/86 11:55:00
SAMPLE: STANDARD
CONDS.
SUBMITTED BY: NJDEP ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS-1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHLOROETANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE(ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	D8-TOLUENE(SURR. STD)
48	BROMOFLUOROBENZENE(SURR. STD)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	210	10:30	1	1.000	A BB	58863.	250.000 NG	2.64
2	65	286	14:18	1	1.362	A BB	173037.	250.000 NG	2.64
3	50	29	1:27	1	0.138	A BB	141464.	250.000 NG	2.64
4	94	48	2:24	1	0.229	A BB	10598.	26.953 NG	0.28
5	62	60	3:00	1	0.286	A BB	71105.	250.000 NG	2.64
6	64	82	4:06	1	0.390	A BB	83723.	250.000 NG	2.64
7	84	128	6:24	1	0.610	A BB	119220.	250.000 NG	2.64
8	43	155	7:45	1	0.738	A VB	44641.	250.000 NG	2.64
9	NOT	FOUND							
10	96	200	10:00	1	0.952	A BB	79100.	250.000 NG	2.64
11	63	235	11:45	1	1.119	A BB	128943.	250.000 NG	2.64
12	96	255	12:45	1	1.214	A BB	96616.	250.000 NG	2.64
13	83	267	13:21	1	1.271	A BB	216272.	250.000 NG	2.64
14	62	289	14:27	1	1.376	A BB	197021.	250.000 NG	2.64
15	101	181	9:03	1	0.862	A BB	138882.	250.000 NG	2.64
16	85	58	2:54	1	0.276	A BB	1983.	250.000 NG	2.64
17	NOT	FOUND							
18	NOT	FOUND							
19	114	492	24:36	19	1.000	A BB	178792.	250.000 NG	2.64
20	43	292	14:36	19	0.593	A BB	41469.	250.000 NG	2.64
21	97	323	16:09	19	0.657	A BB	79743.	255.154 NG	2.70
22	117	333	16:39	19	0.677	A VB	17551.	87.647 NG	0.93
23	83	346	17:18	19	0.703	A BB	24182.	52.833 NG	0.56
24	63	386	19:18	19	0.785	A BB	135502.	388.256 NG	4.10
25	75	392	19:36	19	0.797	A VB	4630.	13.432 NG	0.14
26	130	409	20:27	19	0.831	A BB	250393.	769.489 NG	8.13
27	129	419	20:57	19	0.852	A BB	15069.	41.724 NG	0.44
28	97	424	21:12	19	0.862	A VB	40871.	95.727 NG	1.01
29	78	424	21:12	19	0.862	A BV	293389.	250.000 NG	2.64
30	75	425	21:15	19	0.864	A BV	10720.	28.070 NG	0.30
31	63	456	22:48	19	0.927	A BB	96042.	250.000 NG	2.64
32	NOT	FOUND							
33	117	620	31:00	33	1.000	A BB	170928.	250.000 NG	2.64
34	43	511	25:33	33	0.824	A BV	1137.	250.000 NG	2.64
35	43	555	27:45	33	0.895	A*BB	7763.	250.000 NG	2.64
36	164	558	27:54	33	0.900	A BB	145854.	250.000 NG	2.64
37	83	552	27:36	33	0.890	A BV	1810.	3.394 NG	0.04
38	92	595	29:45	33	0.960	A BB	170214.	250.000 NG	2.64
39	112	623	31:09	33	1.005	A BB	253651.	250.000 NG	2.64
40	106	678	33:54	33	1.094	A BB	104650.	250.000 NG	2.64
41	NOT	FOUND							
42	106	678	33:54	33	1.094	A BB	104650.	250.000 NG	2.64
43	NOT	FOUND							
44	NOT	FOUND							
45	146	920	46:00	33	1.484	A BB	303684.	579.100 NG	6.12

46	146	748	41:24	33	1.529	A BV	200351.	283.120	NG	2.99
47	100	590	29:30	33	0.952	A BB	110320.	250.000	NG	2.64
48	95	743	37:09	33	1.198	A BB	161536.	250.000	NG	2.64

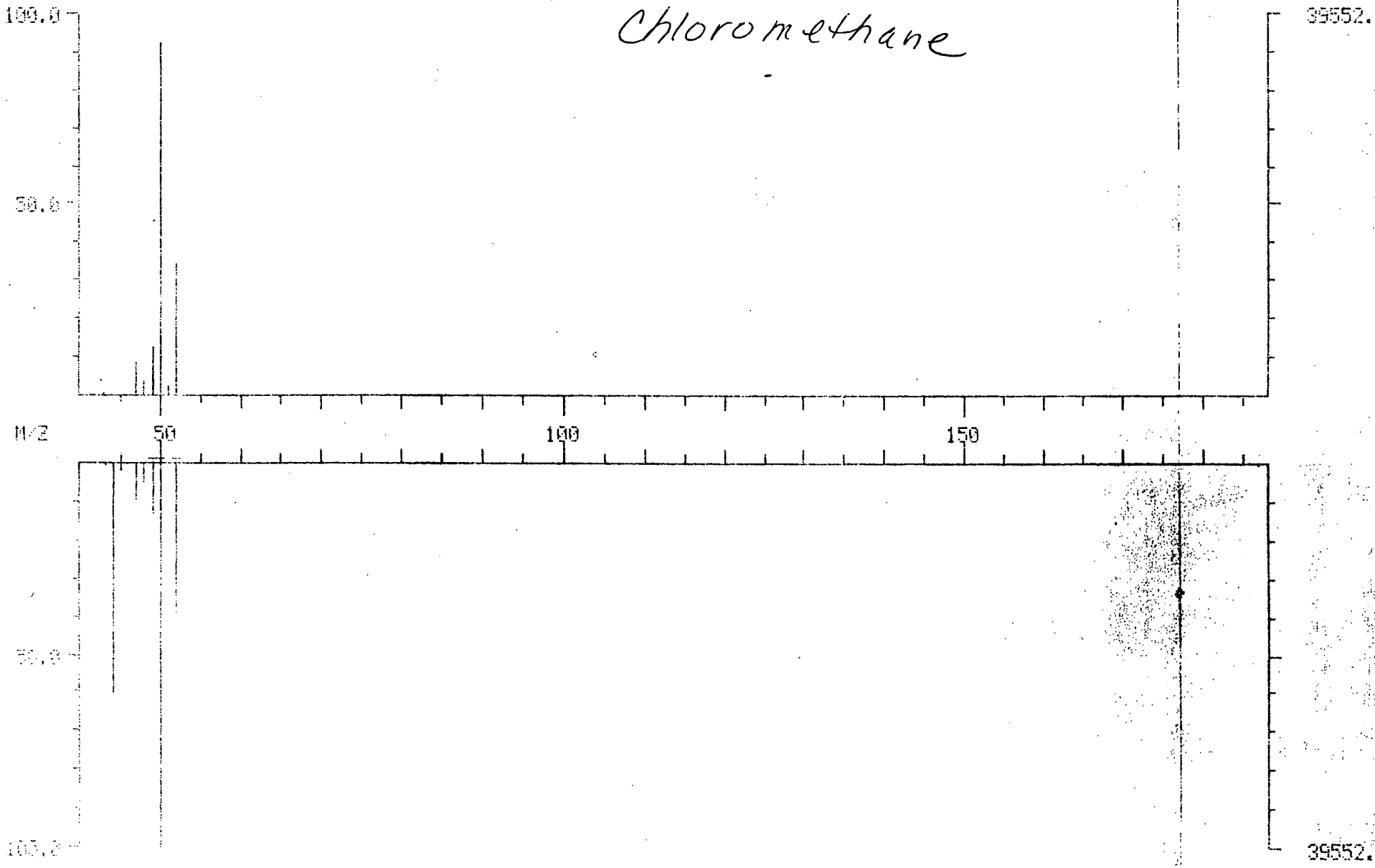
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	10:30	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
2	14:12	1.00	1.362	1.00	250.00	250.00	2.940	2.940	1.00
3	1:27	1.00	0.138	1.00	250.00	250.00	2.403	2.403	1.00
4	2:24	1.00	0.229	1.00	26.95	250.00	0.180	1.670	0.11
5	3:00	1.00	0.286	1.00	250.00	250.00	1.208	1.208	1.00
6	4:06	1.00	0.390	1.00	250.00	250.00	1.422	1.422	1.00
7	6:24	1.00	0.610	1.00	250.00	250.00	2.025	2.025	1.00
8	7:45	1.00	0.738	1.00	250.00	250.00	0.758	0.758	1.00
9	7:48		0.750						
10	10:00	1.00	0.952	1.00	250.00	250.00	1.344	1.344	1.00
11	11:45	1.00	1.119	1.00	250.00	250.00	2.191	2.191	1.00
12	12:45	1.00	1.214	1.00	250.00	250.00	1.641	1.641	1.00
13	13:21	1.00	1.271	1.00	250.00	250.00	3.674	3.674	1.00
14	14:27	1.00	1.376	1.00	250.00	250.00	3.347	3.347	1.00
15	9:03	1.00	0.862	1.00	250.00	250.00	2.359	2.359	1.00
16	2:54	1.00	0.276	1.00	250.00	250.00	0.034	0.034	1.00
17	6:36		0.635						
18	7:42		0.740						
19	24:36	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
20	14:36	1.00	0.593	1.00	250.00	250.00	0.232	0.232	1.00
21	16:09	1.00	0.657	1.00	255.15	250.00	0.446	0.437	1.02
22	16:29	1.00	0.677	1.00	87.65	250.00	0.098	0.280	0.35
23	17:18	1.00	0.703	1.00	52.83	250.00	0.135	0.640	0.21
24	19:18	1.00	0.785	1.00	388.26	250.00	0.758	0.488	1.55
25	19:36	1.00	0.797	1.00	13.43	250.00	0.026	0.482	0.05
26	20:27	1.00	0.831	1.00	769.49	250.00	1.400	0.455	3.08
27	20:57	1.00	0.852	1.00	41.72	250.00	0.084	0.505	0.17
28	21:12	1.00	0.862	1.00	95.73	250.00	0.229	0.597	0.38
29	21:12	1.00	0.862	1.00	250.00	250.00	1.641	1.641	1.00
30	21:15	1.00	0.864	1.00	28.07	250.00	0.060	0.534	0.11
31	22:48	1.00	0.927	1.00	250.00	250.00	0.537	0.537	1.00
32	24:30		0.994						
33	31:00	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
34	25:33	1.00	0.824	1.00	250.00	250.00	0.007	0.007	1.00
35	27:45	1.00	0.895	1.00	250.00	250.00	0.045	0.045	1.00
36	27:54	1.00	0.900	1.00	250.00	250.00	0.853	0.853	1.00
37	27:36	1.00	0.890	1.00	3.39	250.00	0.011	0.780	0.01
38	29:45	1.00	0.960	1.00	250.00	250.00	0.996	0.996	1.00
39	31:09	1.00	1.005	1.00	250.00	250.00	1.484	1.484	1.00
40	33:54	1.00	1.094	1.00	250.00	250.00	0.612	0.612	1.00
41	39:24		1.249						
42	33:54	1.00	1.094	1.00	250.00	250.00	0.612	0.612	1.00
43	40:06		1.287						
44	46:06		1.487						
45	46:00	1.00	1.484	1.00	579.10	250.00	1.777	0.767	2.32
46	47:24	1.00	1.529	1.00	283.12	250.00	1.348	1.190	1.13
47	29:30	1.00	0.952	1.00	250.00	250.00	0.645	0.645	1.00
48	37:09	1.00	1.198	1.00	250.00	250.00	0.945	0.945	1.00

DUAL MASS SPECTRUM
05/26/86 11:55:00 + 1:27
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6425 #29
CALI: PU6425 #2

BASE M/Z: 50/ 50
TIC: 60991./ 91007.

Chloromethane

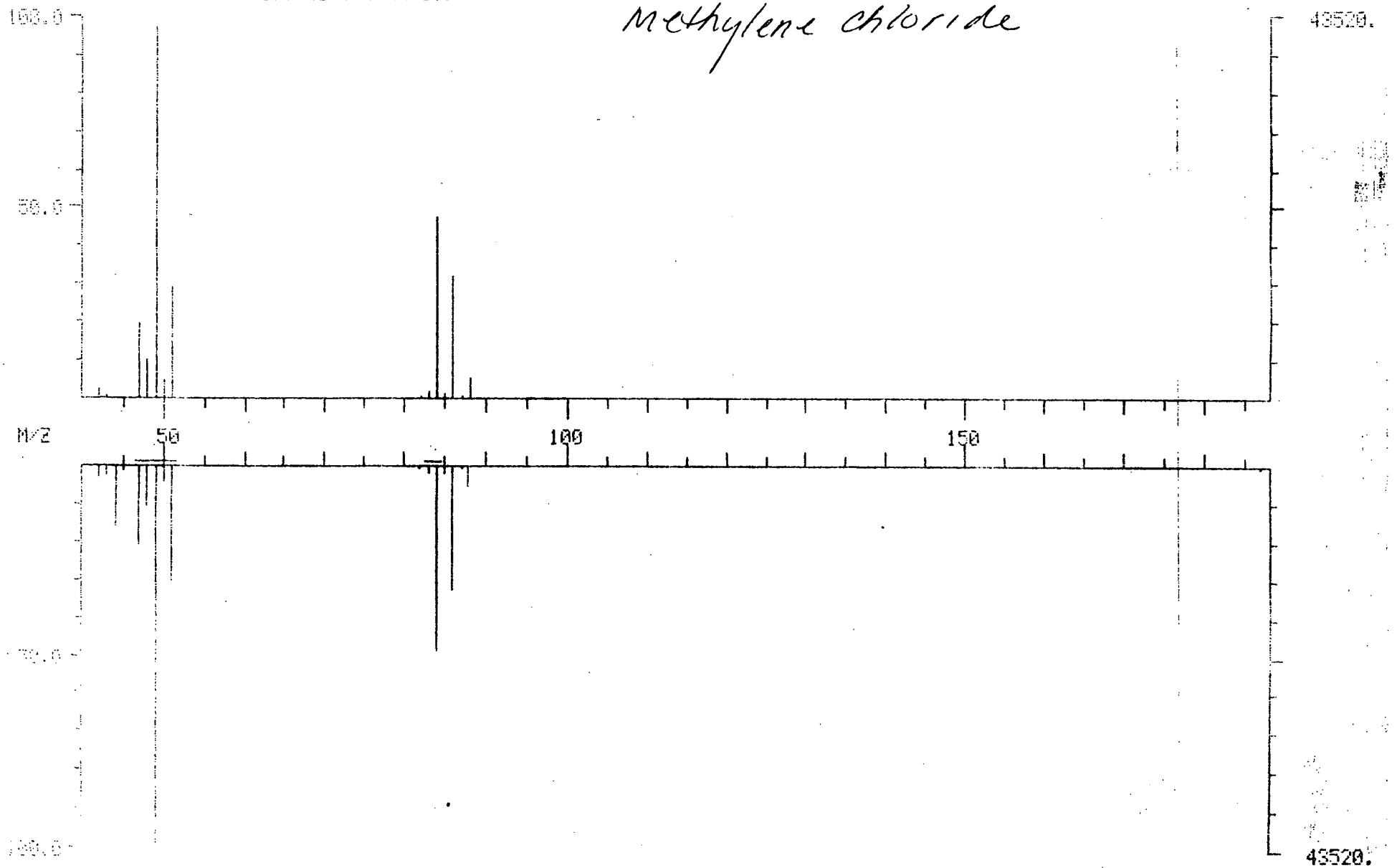


DUAL MASS SPECTRUM
09-16-86 11:54:00 + 6:24
SAMPLE: STANDARD
COMDS.:
ENHANCED (S 15R 2N 0T)

DATA: PU6425 #128
CALI: PU6425 #2

BASE M/Z: 49/ 49
RIC: 110453./ 121983.

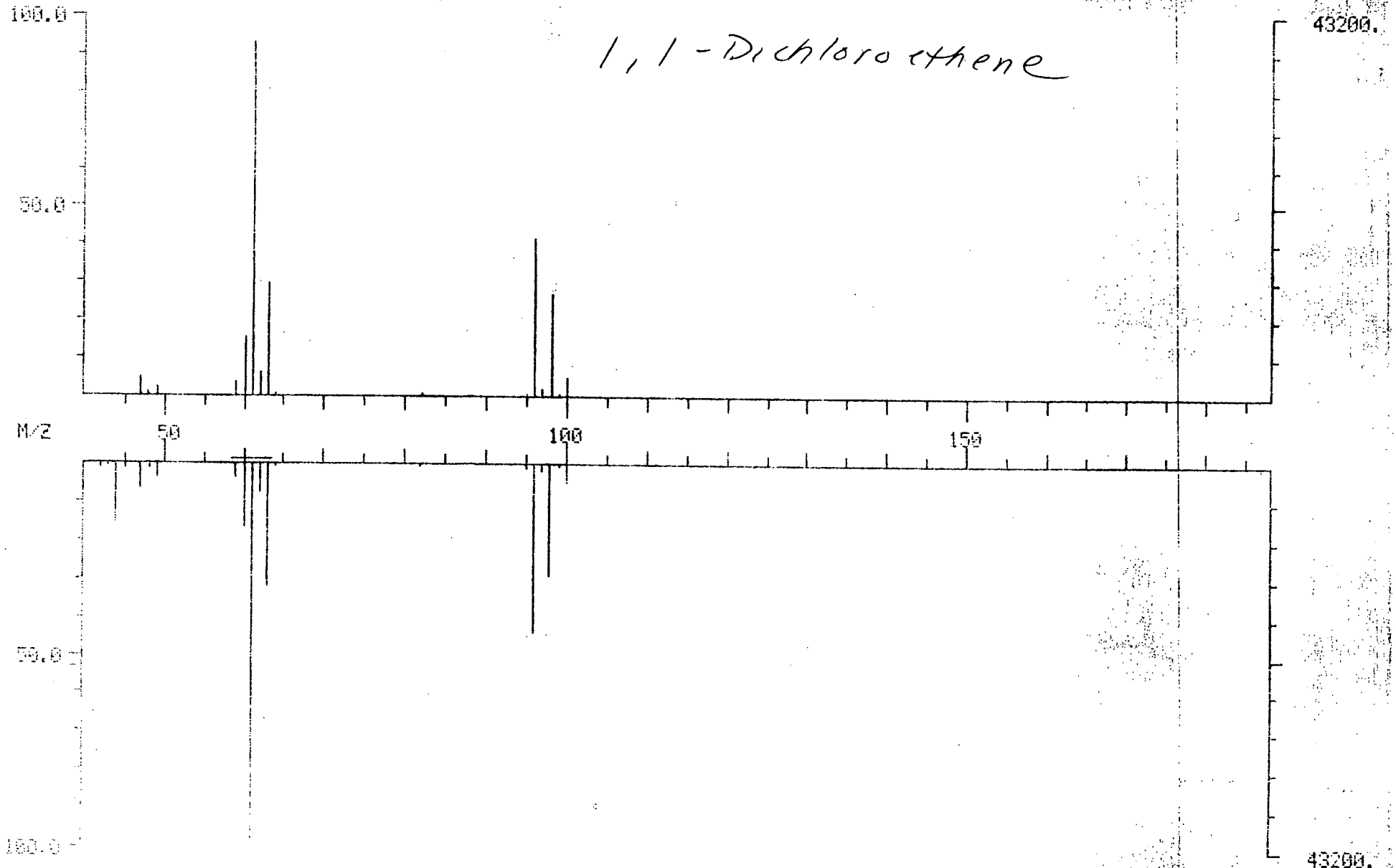
Methylene chloride



DUAL MASS SPECTRUM
09/26/86 11:55:03 + 10:00
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 158 2N 0T)

DATA: PU6425 #200
CALI: PU6425 #2

BASE M/Z: 61/ 61
RIC: 100351./ 118271.

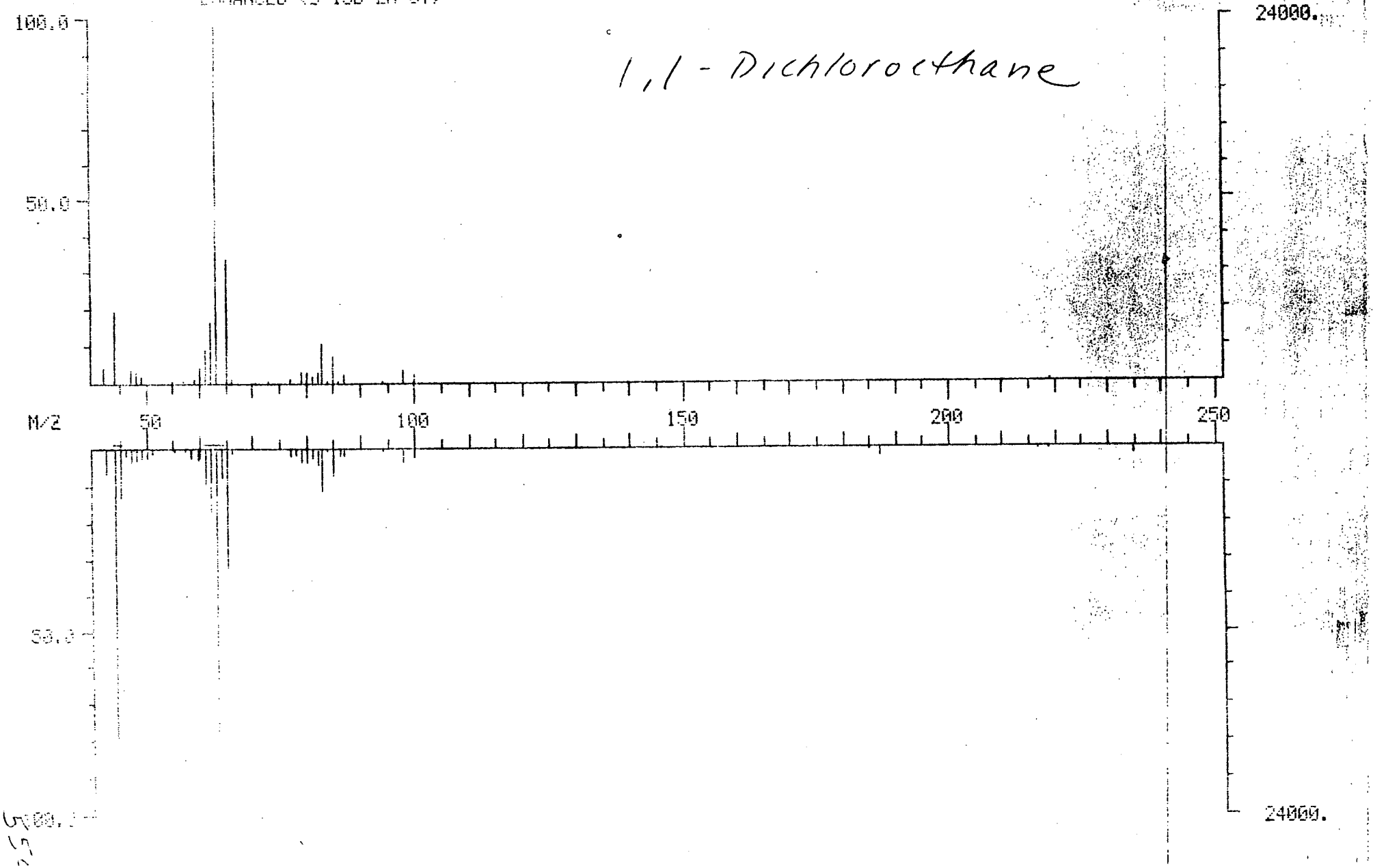


547

DUAL MASS SPECTRUM
[illegible] 11:55:00 + 11:45
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6425 #235
CALI: PU6425 #2

BASE M/Z: 63/ 63
RIC: 57407./ 84991.

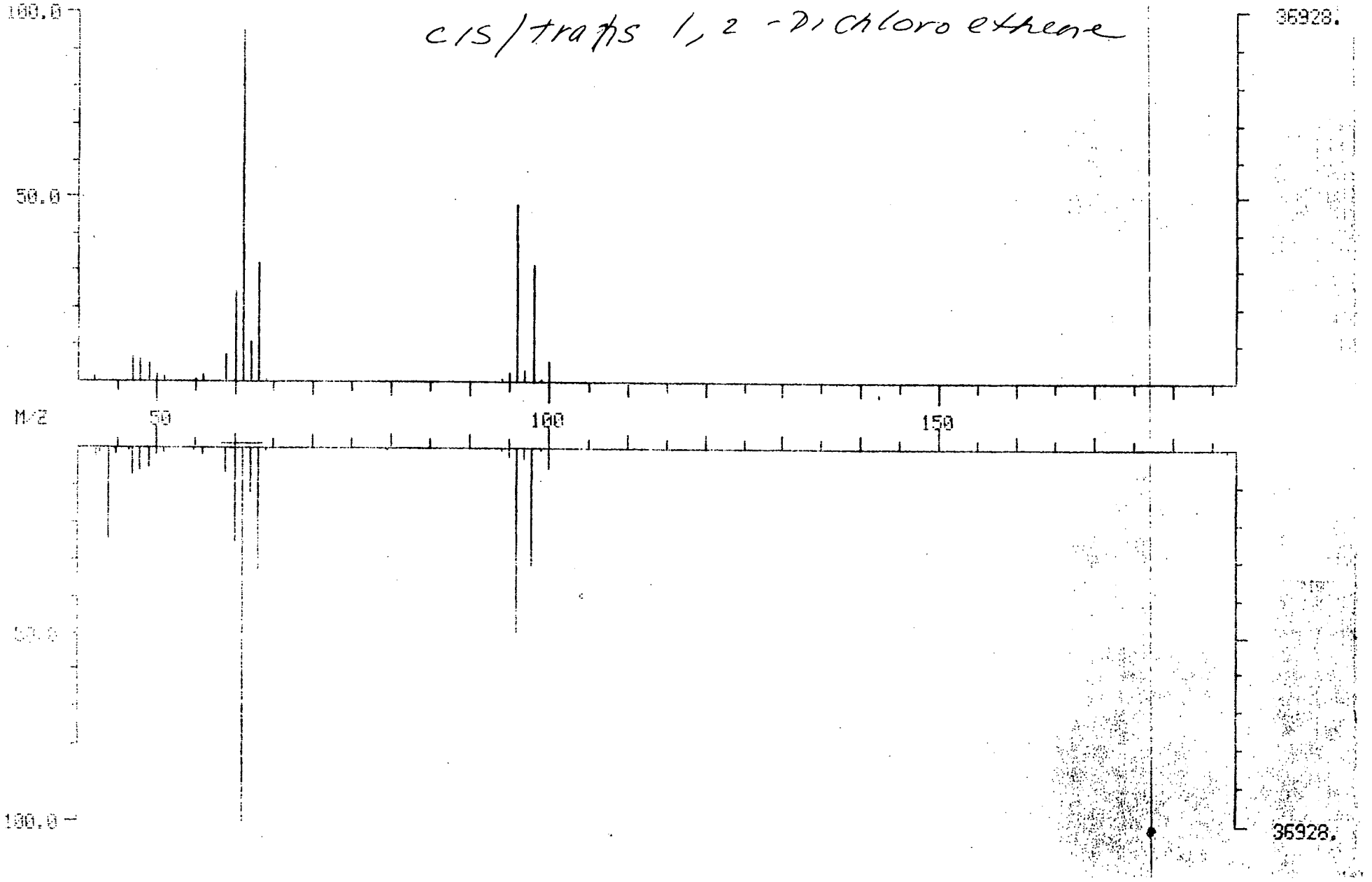


1,1 - Dichloroethane

DUAL MASS SPECTRUM
[illegible]/86 11:55:00 + 12:45
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6425 #255
CALI: PU6425 #2

BASE M/Z: 61/ 61
PIC: 105855./ 120063.



c/s/trans 1, 2 - Dichloroethene

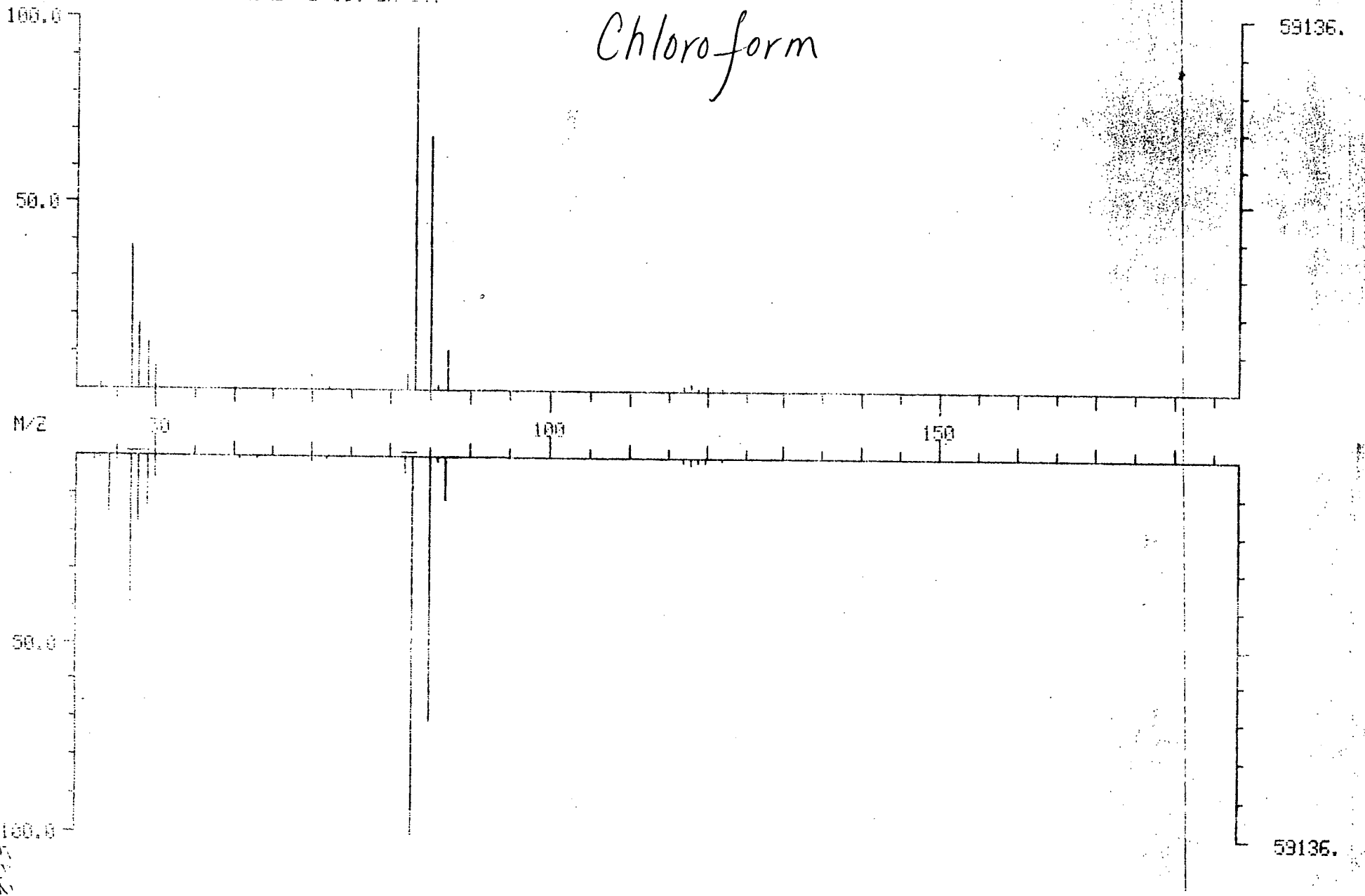
551

DUAL MASS SPECTRUM
09/26/86 11:55:00 + 13:21
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 150 2N 0T)

DATA: PU6425 #267
CAL1: PU6425 #2

BASE M/Z: 83/ 83
RIC: 155903./ 170495.

Chloroform

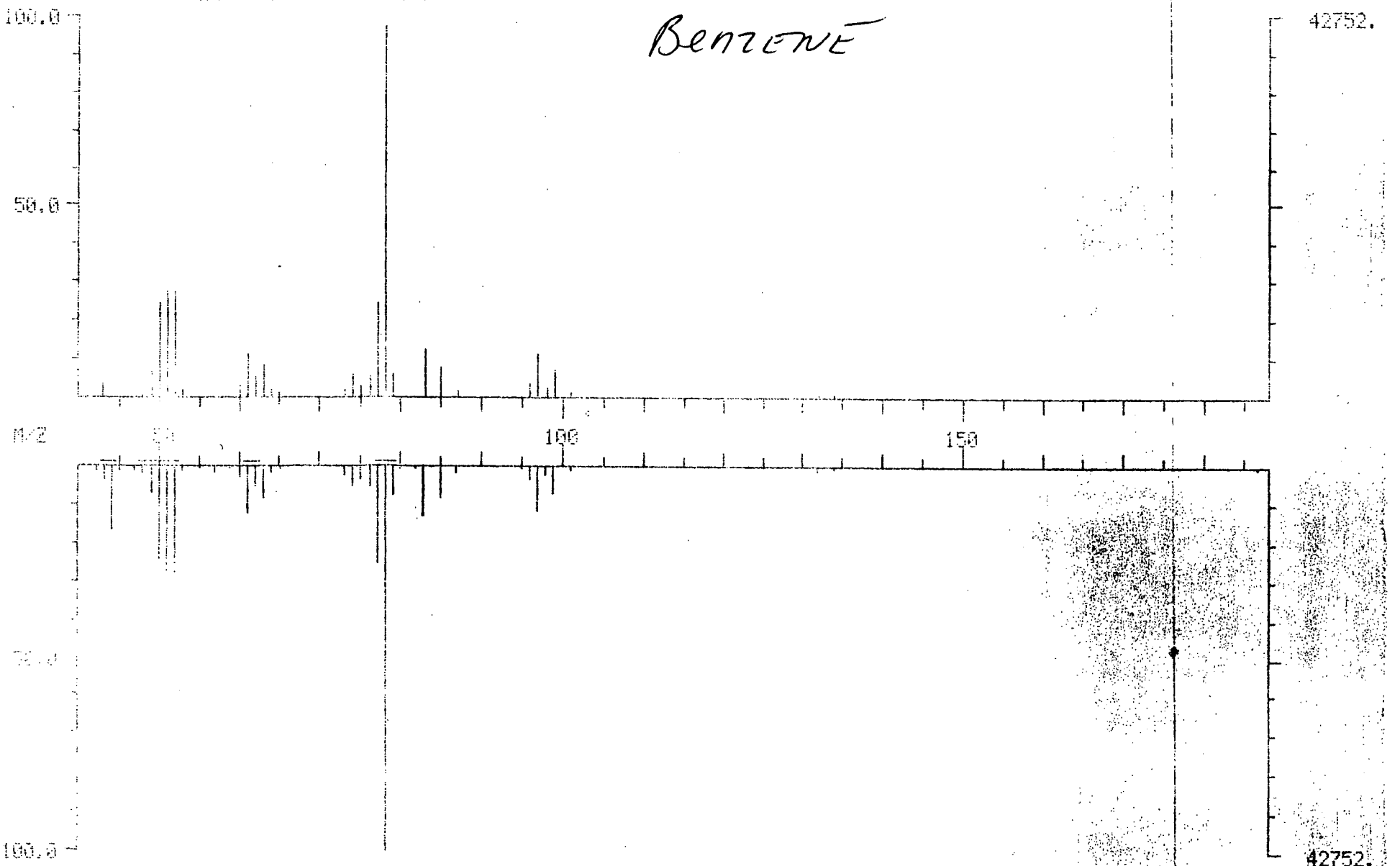


DUAL MASS SPECTRUM
09/26/86 11:55:00 + 21:18
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6425 #426
CALI: PU6425 #2

BASE M/Z: 78/ 78
RIC: 134143./ 150527.

Benzene

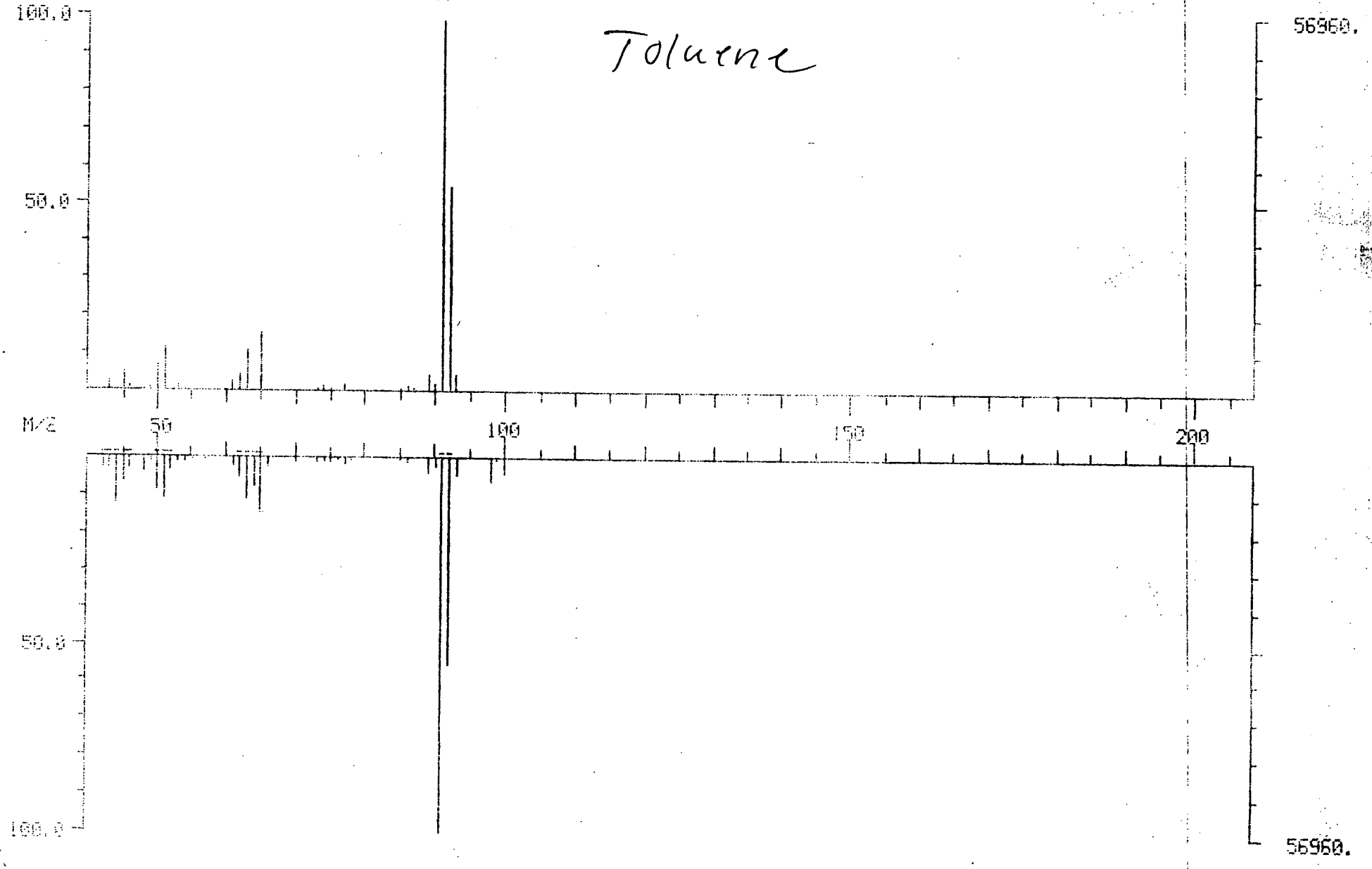


552

PEAK MASS SPECTRUM
03/26/86 11:55:00 + 29:45
SAMPLE: STANDARD
COMDS.:
ENHANCED (S 158 2N 0T)

DATA: PU6425 #595
CAL1: PU6425 #2

BASE M/Z: 91/ 91
RIC: 131583./ 166393.

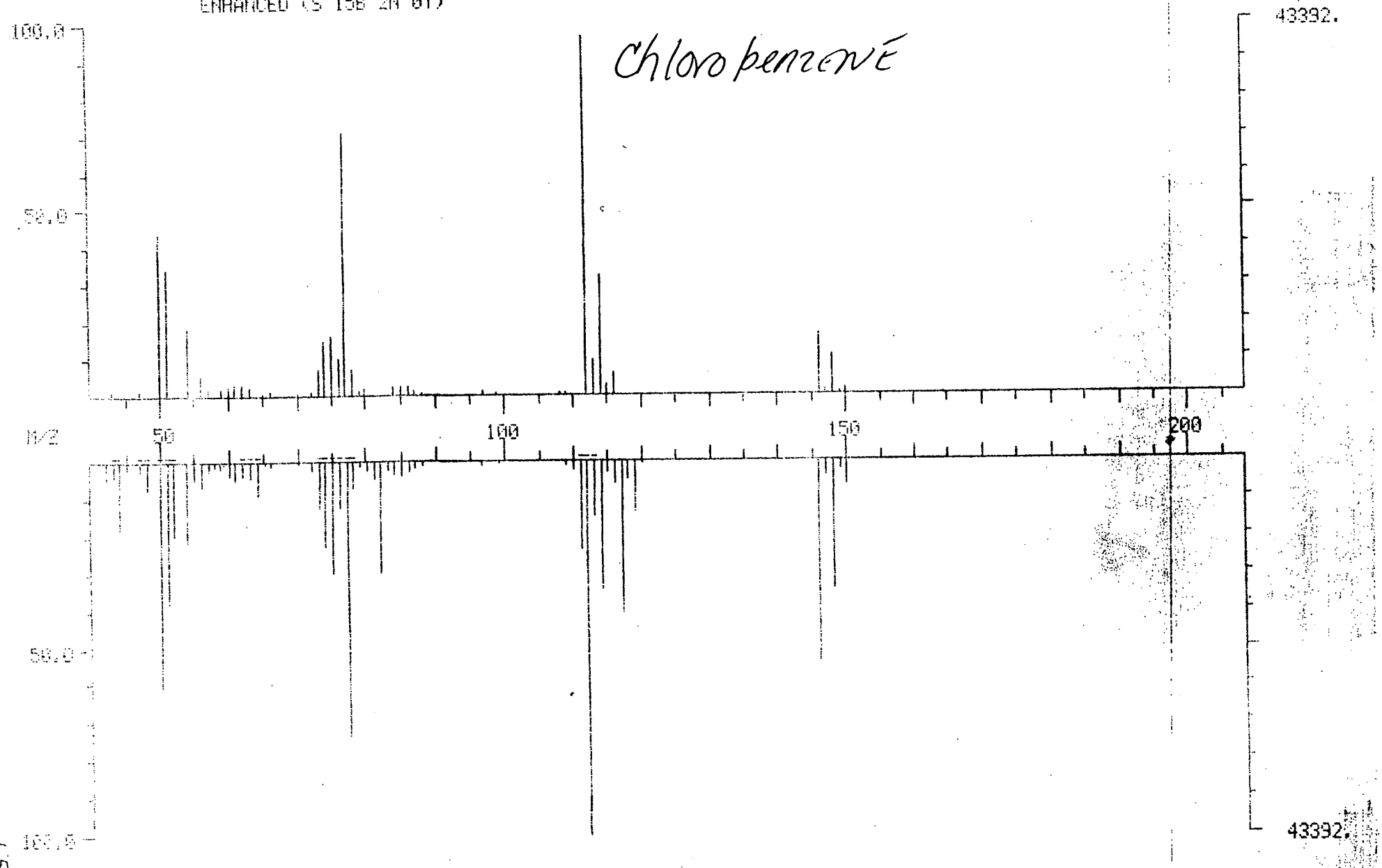


55

DUAL MASS SPECTRUM
80/26/85 11:55:00 + 31:09
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU5425 #623
CALI: PU5425 #2

BASE M/Z: 112/ 112
RIC: 191743./ 339967.



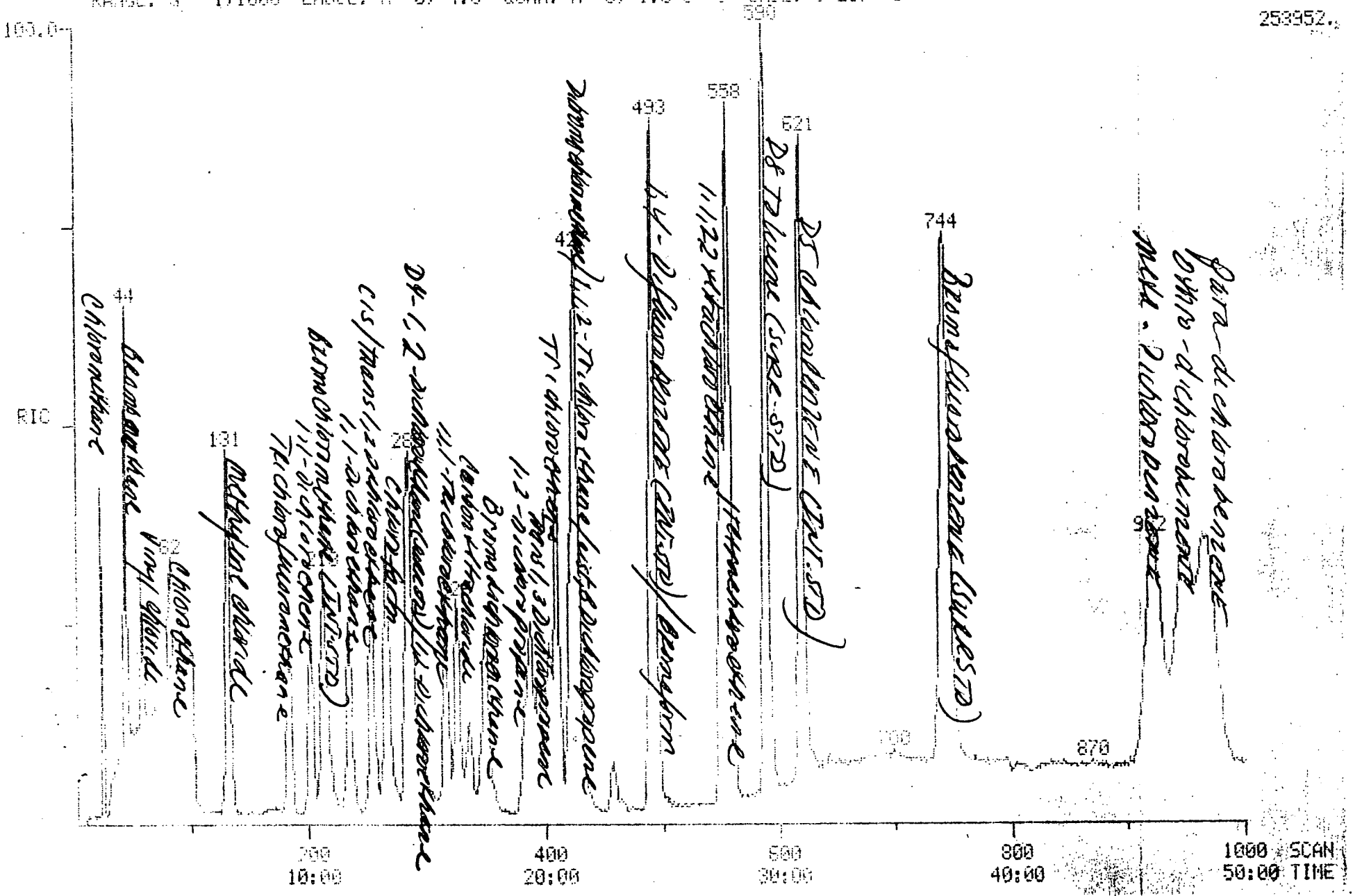
55

RIC
09/05/86 12:49:00
SAMPLE: STANDARD
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6426 #1
CALI: PU6426 #2

SCANS 1 TO 1000

253952.



556

4	94	44	2:12	1	0.208	A BB	104410.	250.000	NG	2.90
5	62	58	2:54	1	0.274	A BB	72322.	250.000	NG	2.90
6	64	82	4:06	1	0.387	A BB	71906.	250.000	NG	2.90
7	84	131	6:33	1	0.618	A BB	96859.	250.000	NG	2.90
8	NOT FOUND									
9	NOT FOUND									
10	96	201	10:03	1	0.948	A BB	50045.	250.000	NG	2.90
11	63	234	11:42	1	1.104	A BB	161145.	250.000	NG	2.90
12	96	253	12:39	1	1.193	A BB	71786.	250.000	NG	2.90
13	83	266	13:18	1	1.255	A BB	184651.	250.000	NG	2.90
14	62	286	14:18	1	1.349	A BB	176314.	250.000	NG	2.90
15	101	183	9:09	1	0.863	A BB	125707.	250.000	NG	2.90
16	NOT FOUND									
17	NOT FOUND									
18	NOT FOUND									
19	114	493	24:39	19	1.000	A BB	197792.	250.000	NG	2.90
20	NOT FOUND									
21	97	316	15:48	19	0.641	A BV	86405.	250.000	NG	2.90
22	117	326	16:18	19	0.661	A BB	55356.	250.000	NG	2.90
23	83	351	17:33	19	0.712	A BB	126676.	250.000	NG	2.90
24	63	389	19:27	19	0.789	A BB	96604.	250.000	NG	2.90
25	75	395	19:45	19	0.801	A VB	95364.	250.000	NG	2.90
26	130	411	20:33	19	0.834	A VB	89901.	250.000	NG	2.90
27	129	422	21:06	19	0.856	A BB	99239.	250.000	NG	2.90
28	97	426	21:18	19	0.864	A BB	118057.	250.000	NG	2.90
29	78	428	21:24	19	0.868	A BB	2414.	250.000	NG	2.90
30	75	429	21:27	19	0.870	A BB	105717.	250.000	NG	2.90
31	63	427	21:21	19	0.866	A BB	36428.	250.000	NG	2.90
32	173	490	24:30	19	0.994	A BB	79669.	250.000	NG	2.90
33	117	620	31:00	33	1.000	A BB	180256.	250.000	NG	2.90
34	43	514	25:42	33	0.829	A BB	2979.	250.000	NG	2.90
35	43	550	27:30	33	0.887	A*BB	2572.	250.000	NG	2.90
36	164	558	27:54	33	0.900	A BB	143303.	250.000	NG	2.90
37	83	552	27:36	33	0.890	A BB	236031.	250.000	NG	2.90
38	92	595	29:45	33	0.960	A BB	6987.	250.000	NG	2.90
39	112	623	31:09	33	1.005	A BB	268.	250.000	NG	2.90
40	NOT FOUND									
41	NOT FOUND									
42	NOT FOUND									
43	NOT FOUND									
44	146	922	46:06	33	1.487	A BB	169424.	250.000	NG	2.90
45	146	951	47:33	33	1.534	A BV	138242.	250.000	NG	2.90
46	146	966	48:18	33	1.558	A VB	214901.	250.000	NG	2.90
47	100	590	29:30	33	0.952	A BB	175056.	250.000	NG	2.90
48	95	744	37:12	33	1.200	A BB	284477.	250.000	NG	2.90

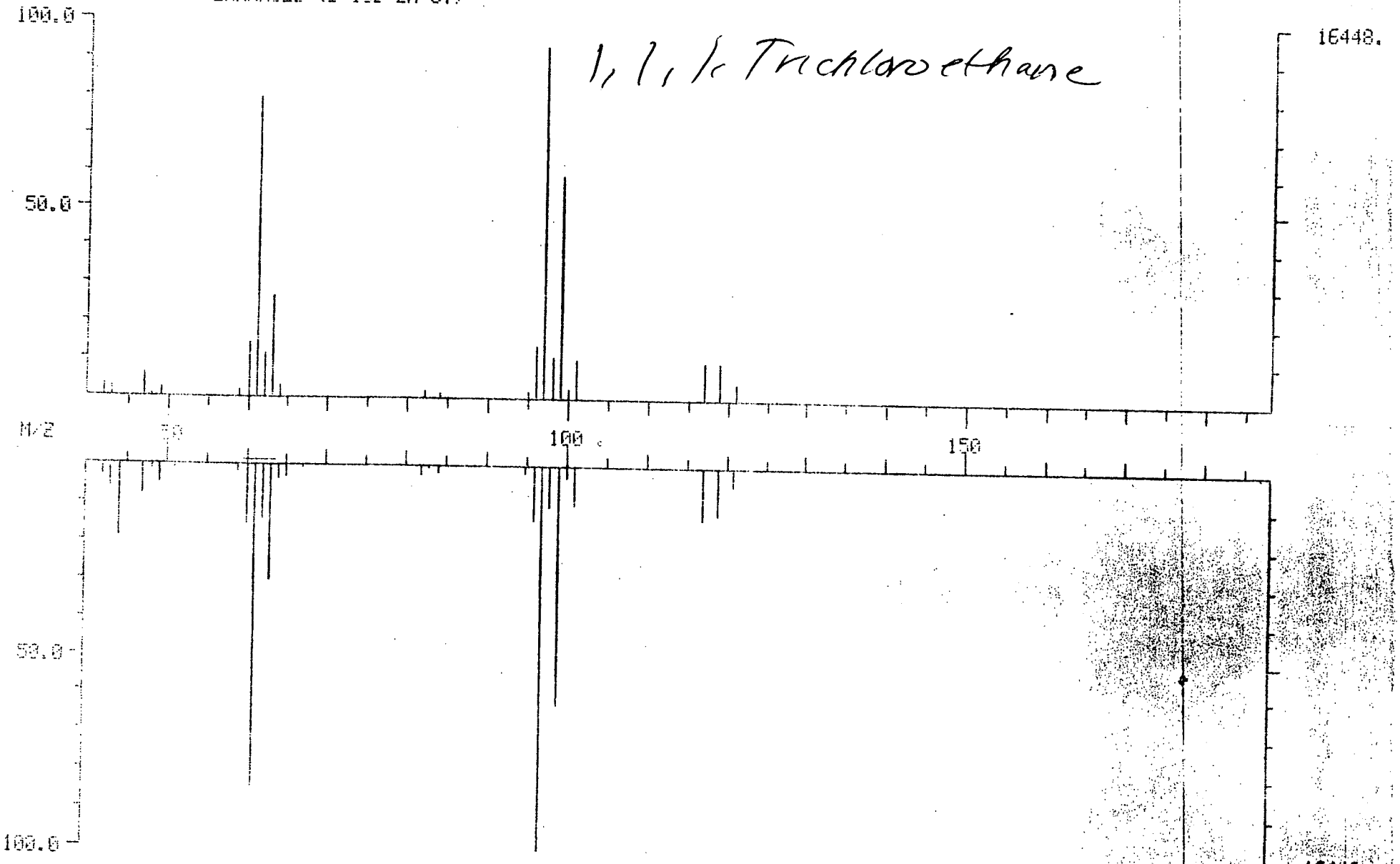
No	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:36	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
2	14:12	1.00	1.340	1.00	250.00	250.00	3.392	3.392	1.00
3	2:09	1.00	0.203	1.00	250.00	250.00	0.026	0.026	1.00
4	2:12	1.00	0.208	1.00	250.00	250.00	1.670	1.670	1.00
5	2:54	1.00	0.274	1.00	250.00	250.00	1.157	1.157	1.00
6	4:06	1.00	0.387	1.00	250.00	250.00	1.150	1.150	1.00
7	6:33	1.00	0.618	1.00	250.00	250.00	1.549	1.549	1.00
8	7:45		0.711						
9	7:48		0.750						
10	10:03	1.00	0.948	1.00	250.00	250.00	0.800	0.800	1.00
11	11:42	1.00	1.104	1.00	250.00	250.00	2.577	2.577	1.00
12	12:39	1.00	1.193	1.00	250.00	250.00	1.148	1.148	1.00
13	13:18	1.00	1.255	1.00	250.00	250.00	2.953	2.953	1.00
14	14:18	1.00	1.349	1.00	250.00	250.00	2.820	2.820	1.00
15	9:09	1.00	0.863	1.00	250.00	250.00	2.010	2.010	1.00
16	2:27		0.236						

20	15:00		0.605						
21	15:48	1.00	0.641	1.00	250.00	250.00	0.437	0.437	1.00
22	16:18	1.00	0.661	1.00	250.00	250.00	0.280	0.280	1.00
23	17:33	1.00	0.712	1.00	250.00	250.00	0.640	0.640	1.00
24	19:27	1.00	0.789	1.00	250.00	250.00	0.488	0.488	1.00
25	19:45	1.00	0.801	1.00	250.00	250.00	0.482	0.482	1.00
26	20:33	1.00	0.834	1.00	250.00	250.00	0.455	0.455	1.00
27	21:06	1.00	0.856	1.00	250.00	250.00	0.502	0.502	1.00
28	21:18	1.00	0.864	1.00	250.00	250.00	0.597	0.597	1.00
29	21:24	1.00	0.868	1.00	250.00	250.00	0.012	0.012	1.00
30	21:27	1.00	0.870	1.00	250.00	250.00	0.534	0.534	1.00
31	21:21	1.00	0.866	1.00	250.00	250.00	0.184	0.184	1.00
32	24:30	1.00	0.994	1.00	250.00	250.00	0.403	0.403	1.00
33	31:00	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
34	25:42	1.00	0.829	1.00	250.00	250.00	0.017	0.017	1.00
35	27:30	1.00	0.887	1.00	250.00	250.00	0.014	0.014	1.00
36	27:54	1.00	0.900	1.00	250.00	250.00	0.795	0.795	1.00
37	27:36	1.00	0.890	1.00	250.00	250.00	1.309	1.309	1.00
38	29:45	1.00	0.960	1.00	250.00	250.00	0.039	0.039	1.00
39	31:09	1.00	1.005	1.00	250.00	250.00	0.001	0.001	1.00
40	34:00		1.091						
41	39:24		1.249						
42	34:00		1.091						
43	40:06		1.287						
44	46:06	1.00	1.457	1.00	250.00	250.00	0.940	0.940	1.00
45	47:33	1.00	1.514	1.00	250.00	250.00	0.767	0.767	1.00
46	48:18	1.00	1.558	1.00	250.00	250.00	1.192	1.192	1.00
47	29:30	1.00	0.952	1.00	250.00	250.00	0.971	0.971	1.00
48	37:12	1.00	1.500	1.00	250.00	250.00	1.578	1.578	1.00

DUAL MASS SPECTRUM
09/25/85 12:49:00 + 15:48
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6426 #316
CALI: PU6426 #2

BASE M/Z: 97/ 97
RIC: 60607./ 71295.



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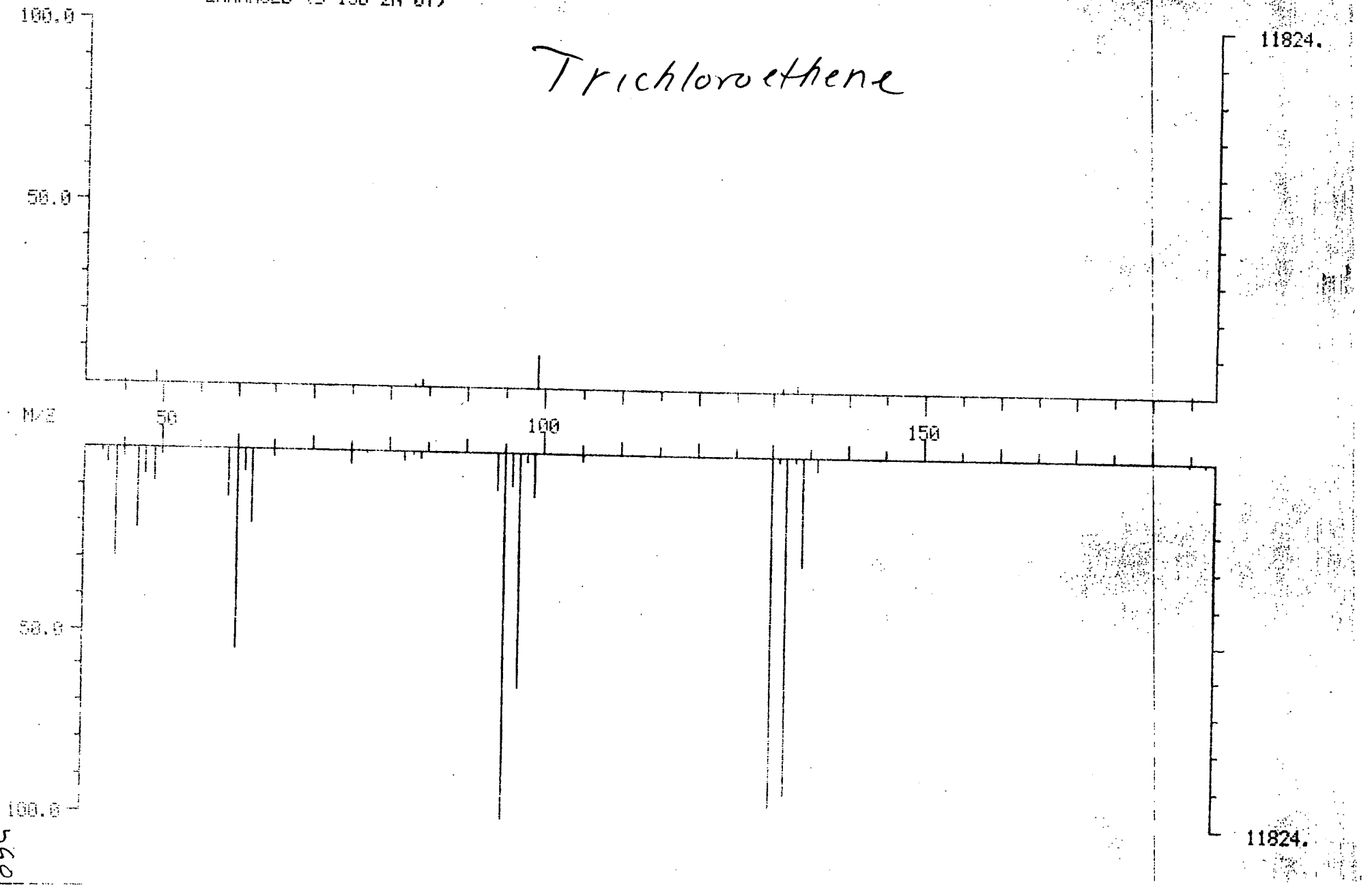
DUAL MASS SPECTRUM
09/25/86 12:49:00 + 20:27
SAMPLE: STANDARD
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6426 #409
CALI: PU6426 #2

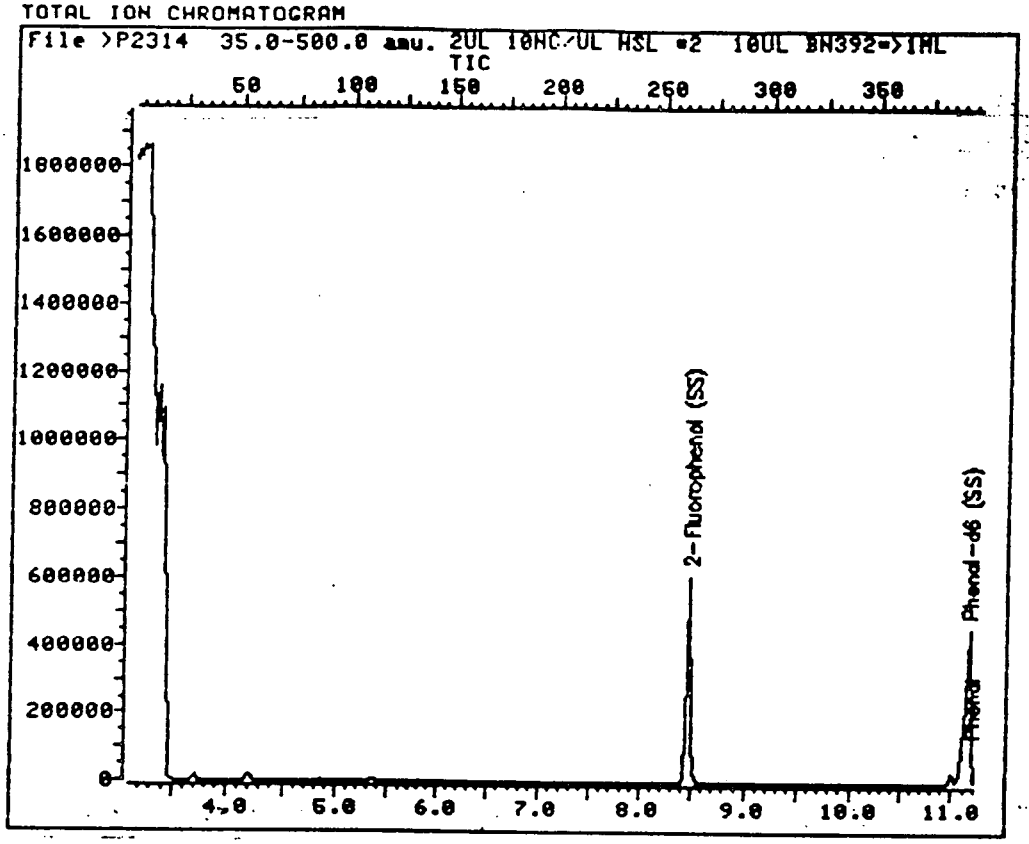
BASE M/Z: 99/ 95
RIC: 2287./ 71679.

Trichloroethene



560

TOTAL ION CHROMATOGRAM



Data File: >P2314::D3
Name: 2UL 10NG/UL HSL #2
Misc: 10UL BN392=>1ML

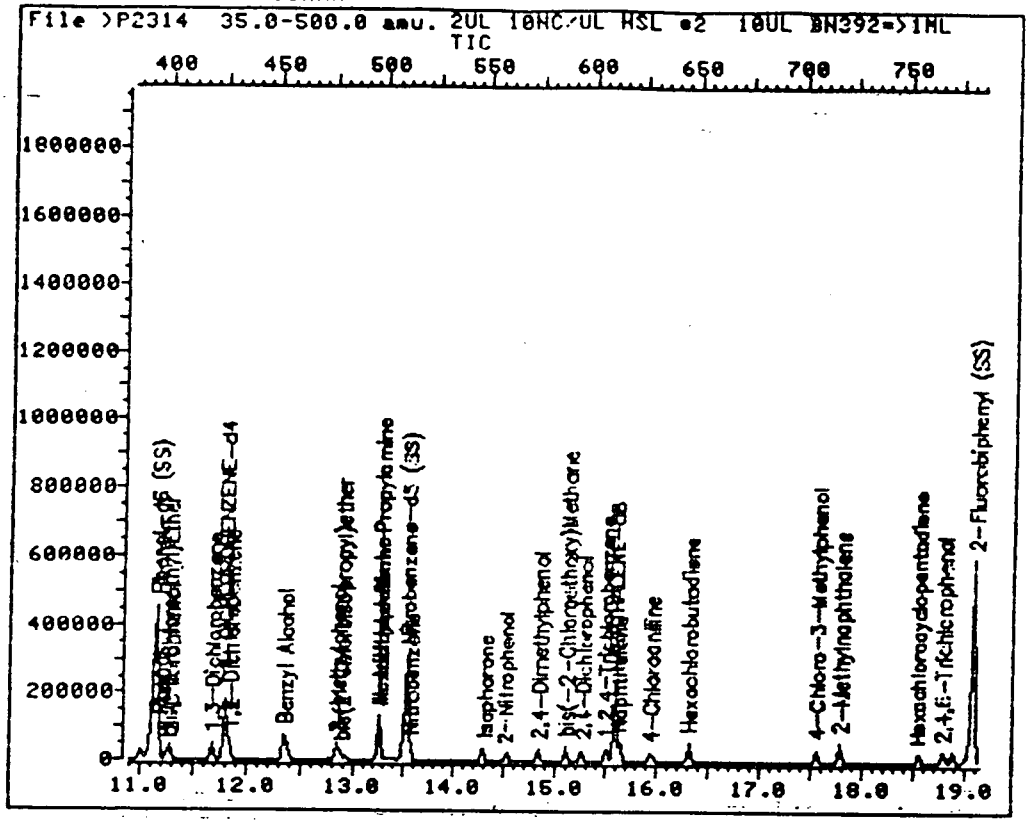
BTL#81

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 18:14
Injected at: 860821 17:30

TIC page 1 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2314::D3
Name: 2UL 10NG/UL HSL #2
Misc: 10UL BN392=>1ML

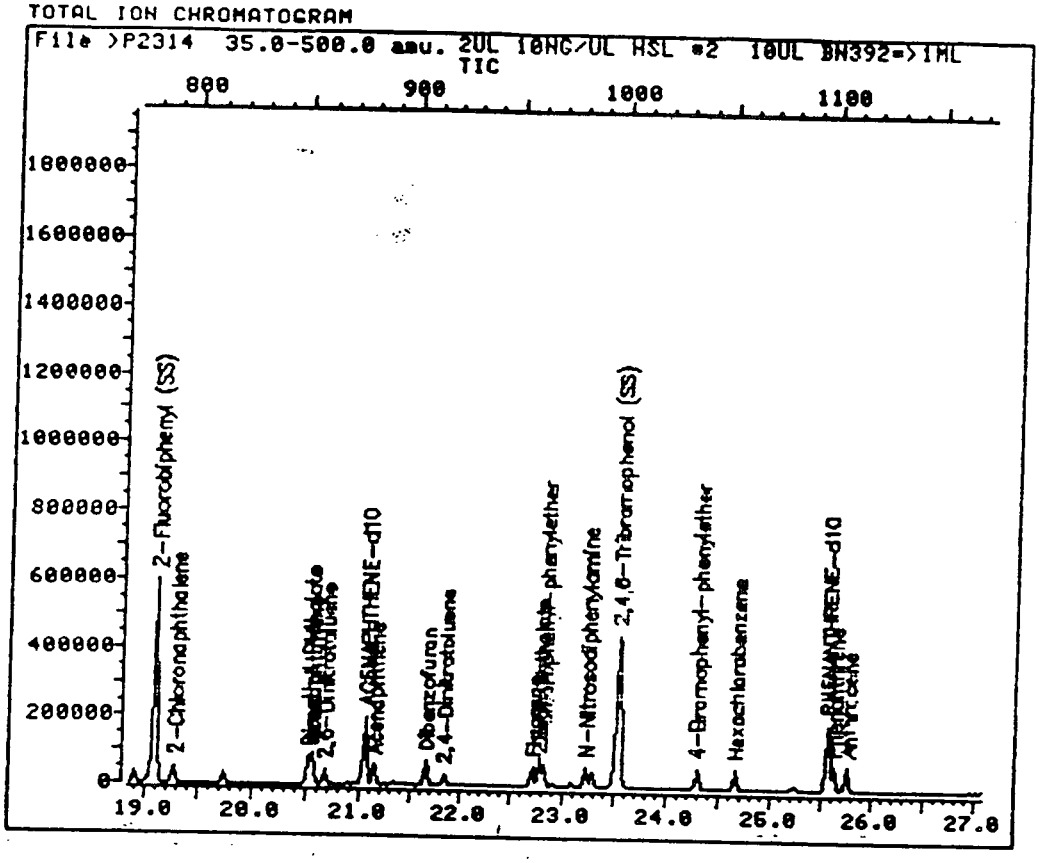
BTL#81

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 18:14
Injected at: 860821 17:30

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2314::D3
Name: 2UL 10NG/UL HSL #2
Misc: 10UL BN392=>1ML

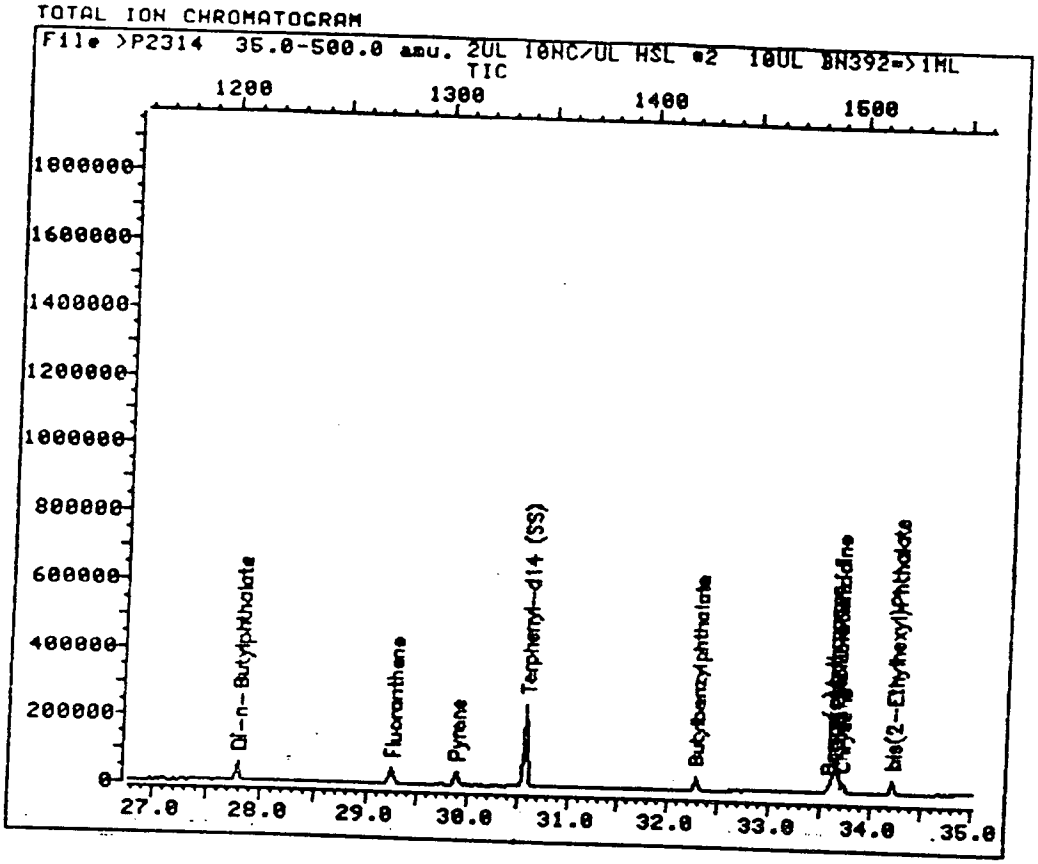
BTL#81

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 18:14
Injected at: 860821 17:30

TIC page 3 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2314::D3
Name: 2UL 10NG/UL HSL #2
Misc: 10UL BN392=>1ML

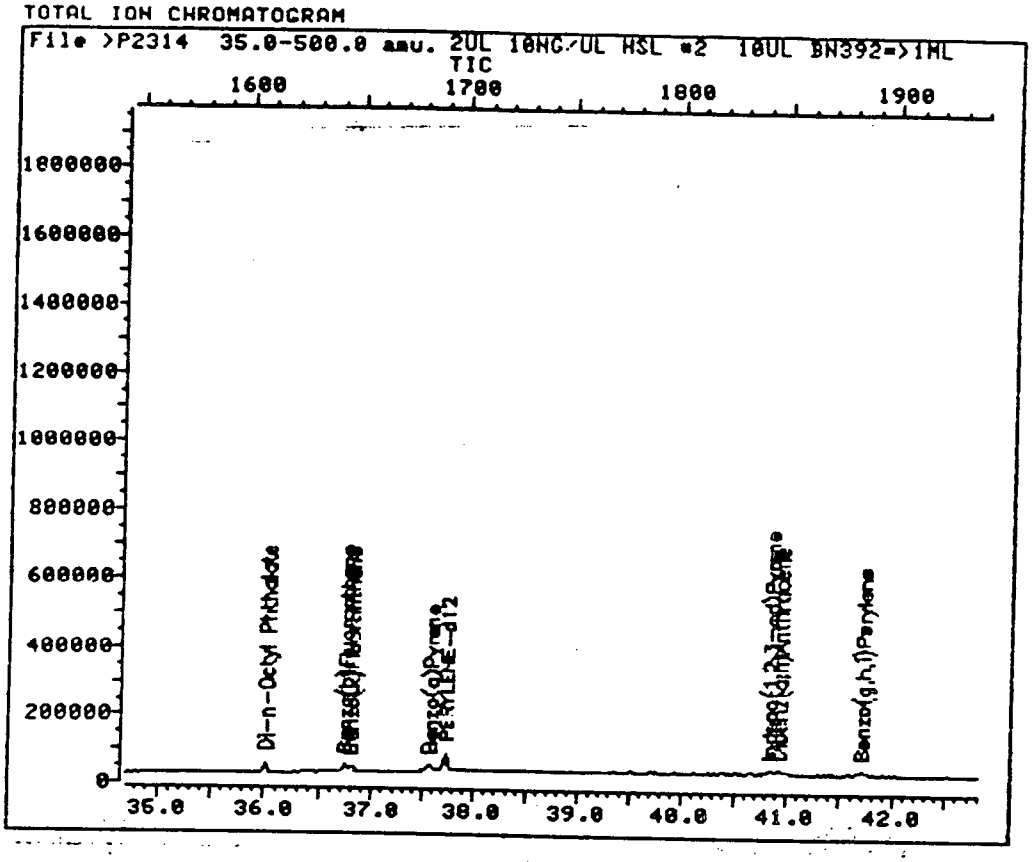
BTL#81

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 18:14
Injected at: 860821 17:30

TIC page 4 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2314::D3
Name: 2UL 10NG/UL HSL #2
Misc: 10UL BN392=>1ML

BTL#81

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 18:14
Injected at: 860821 17:30

TIC page 5 of 5

QUANT REPORT

Operator ID: STEVE
Output File: ^P2314::OP
Data File: >P2314::D3
Name: 2UL 10NG/UL HSL #2
Misc: 10UL BN392=>1ML

Quant Rev: 4
Quant Time: 860821 18:14
Injected at: 860821 17:30
Dilution Factor: 1.00

BTL#81

ID File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.79	426	66798	40.00	NG	87
3)	2-Fluorophenol (SS)	8.48	264	418897	20.15	NG	91
4)	Phenol	11.18	396	24831	5.60	NG	91
6)	bis(-2-Chloroethyl)Ether	11.26	400	25982	7.17	NG	93
7)	Phenol-d6 (SS)	11.16	395	480681	15.35	NG	76
8)	2-Chlorophenol	11.28	401	21453	6.05	NG	89
9)	1,3-Dichlorobenzene	11.67	420	25377	9.55	NG	93
10)	1,4-Dichlorobenzene	11.83	428	25948	9.94	NG	88
11)	Benzyl Alcohol	12.35	453	13796M	16.26	NG	76
12)	1,2-Dichlorobenzene	11.83	428	25948	9.37	NG	93
13)	2-Methylphenol	12.84	477	16672	6.39	NG	97
14)	bis(2-Chloroisopropyl)ether	12.88	479	28036M	7.82	NG	
15)	4-Methylphenol	13.27	498	16991	5.64	NG	47
16)	N-Nitroso-Di-n-Propylamine	13.27	498	18531	6.30	NG	89
17)	Hexachloroethane	13.27	498	10508	8.56	NG	70
18)	*NAPHTHALENE-d8	15.60	612	219845	40.00	NG	48
19)	Nitrobenzene-d5 (SS)	13.53	511	238200	26.18	NG	88
20)	Nitrobenzene	13.57	513	23212	8.96	NG	66
21)	Isophorone	14.31	549	36468	7.38	NG	41
22)	2-Nitrophenol	14.51	559	9114	7.46	NG	78
23)	2,4-Dimethylphenol	14.84	575	14143	8.47	NG	34
25)	bis(-2-Chloroethoxy)Methane	15.11	588	24541	9.94	NG	87
26)	2,4-Dichlorophenol	15.27	596	14588	8.34	NG	94
27)	1,2,4-Trichlorobenzene	15.50	607	20581	11.14	NG	97
28)	Naphthalene	15.64	614	58329	10.41	NG	39
29)	4-Chloroaniline	15.95	629	19592	17.33	NG	96
30)	Hexachlorobutadiene	16.31	647	13090	11.01	NG	88
31)	4-Chloro-3-Methylphenol	17.56	708	16001	6.49	NG	86
32)	2-Methylnaphthalene	17.79	719	31911	7.81	NG	81
33)	*ACENAPHTHENE-d10	21.06	879	97189	40.00	NG	98
34)	Hexachlorocyclopentadiene	18.54	756	9959	12.58	NG	90
35)	2,4,6-Trichlorophenol	18.79	768	10960	10.09	NG	99
37)	2-Chloronaphthalene	19.28	792	36004	13.18	NG	95
38)	2-Fluorobiphenyl (SS)	19.10	783	468311	29.70	NG	96
40)	Dimethyl Phthalate	20.53	853	53279	13.87	NG	74
41)	Acenaphthylene	20.55	854	58864	13.26	NG	35
43)	Acenaphthene	21.14	883	36716	13.17	NG	97
46)	Dibenzofuran	21.65	908	49653	12.04	NG	75
47)	2,4-Dinitrotoluene	21.84	917	9128	9.96	NG	95
48)	2,6-Dinitrotoluene	20.67	860	9695	10.64	NG	95
49)	Diethylphthalate	22.78	963	62743	14.71	NG	98
50)	4-Chlorophenyl-phenylether	22.82	965	24888	[illegible]	NG	[illegible]

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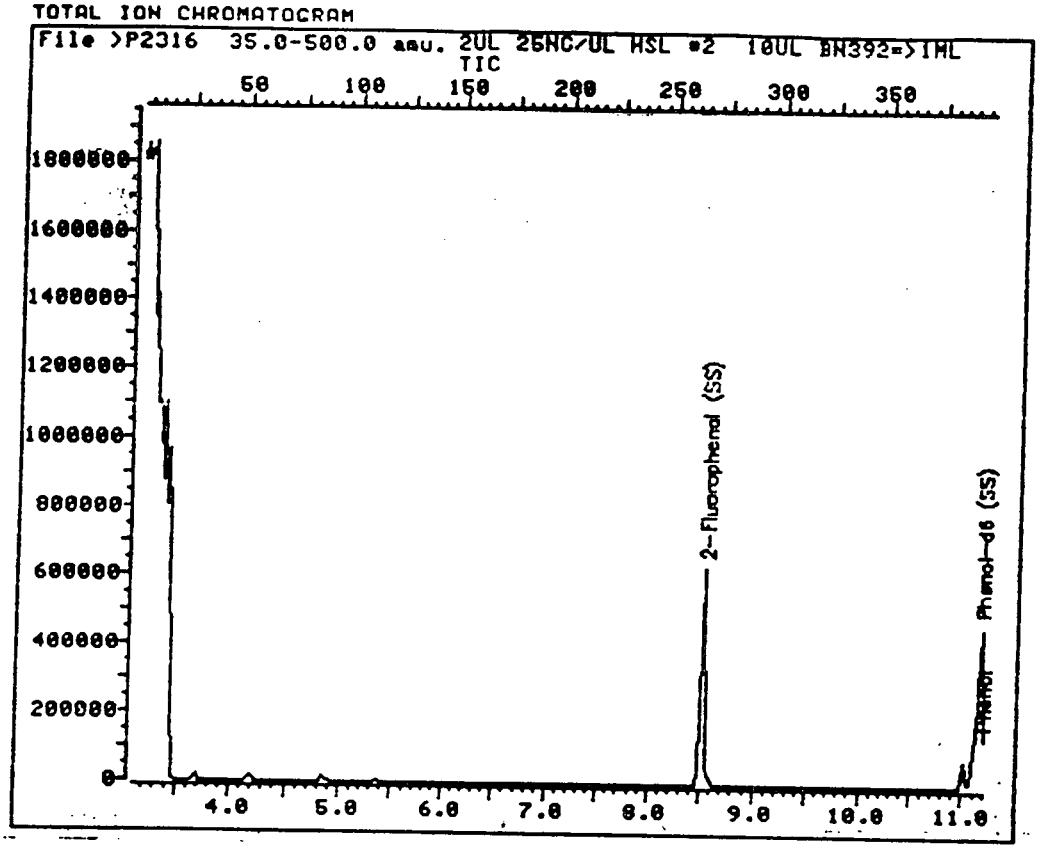
	Compound	R.T.	Scan#	Area	Conc	Units	q
58)	4-Bromophenyl-phenylether	24.29	1037	16988	11.17	NG	87
59)	Hexachlorobenzene	24.66	1055	19547	9.46	NG	83
61)	Phenanthrene	25.62	1102	60737	10.02	NG	49
62)	Anthracene	25.77	1109	61312	10.84	NG	45
63)	Di-n-Butylphthalate	27.79	1208	64180	7.37	NG	84
64)	Fluoranthene	29.25	1279	44821	7.64	NG	65
65)	*CHRYSENE-d12	33.66	1494	83639	40.00	NG	48
66)	Terphenyl-d14 (SS)	30.58	1344	232382	32.06	NG	36
68)	Pyrene	29.88	1310	45901	11.31	NG	39
69)	Butylbenzylphthalate	32.28	1427	17255	9.19	NG	95
70)	3,3'-Dichlorobenzidine	33.66	1494	4965	7.75	NG	92
71)	Benzo(a)Anthracene	33.59	1491	28463	10.64	NG	68
72)	bis(2-Ethylhexyl)Phthalate	34.23	1522	22381	7.25	NG	86
73)	Chrysene	33.72	1497	26966	11.77	NG	91
74)	*PERYLENE-d12	37.74	1693	59550	40.00	NG	77
75)	Di-n-Octyl Phthalate	36.01	1609	28276	9.74	NG	100
76)	Benzo(b)Fluoranthene	36.73	1644	24200	11.53	NG	94
77)	Benzo(k)Fluoranthene	36.79	1647	17561	9.51	NG	95
78)	Benzo(a)Pyrene	37.57	1685	17860	9.77	NG	93
79)	Indeno(1,2,3-cd)Pyrene	40.84	1844	17828	8.72	NG	90
80)	Dibenz(a,h)Anthracene	40.92	1848	14170	9.08	NG	80
81)	Benzo(g,h,i)Perylene	41.70	1886	15023	9.58	NG	73

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >P2316::D3
Name: 2UL 25NG/UL HSL #2
Misc: 10UL BN392=>1ML

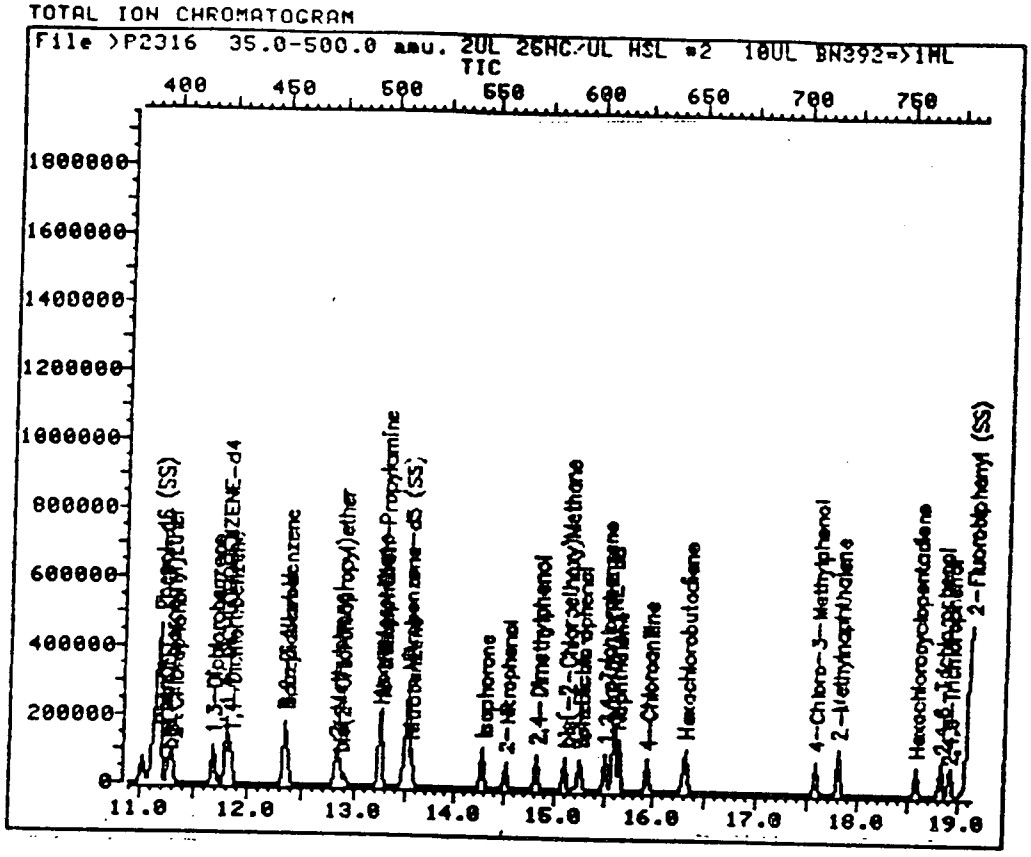
BTL#83

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 19:58
Injected at: 860821 19:13

TIC page 1 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2316::D3
Name: 2UL 25NG/UL HSL #2
Misc: 10UL BN392=>1ML

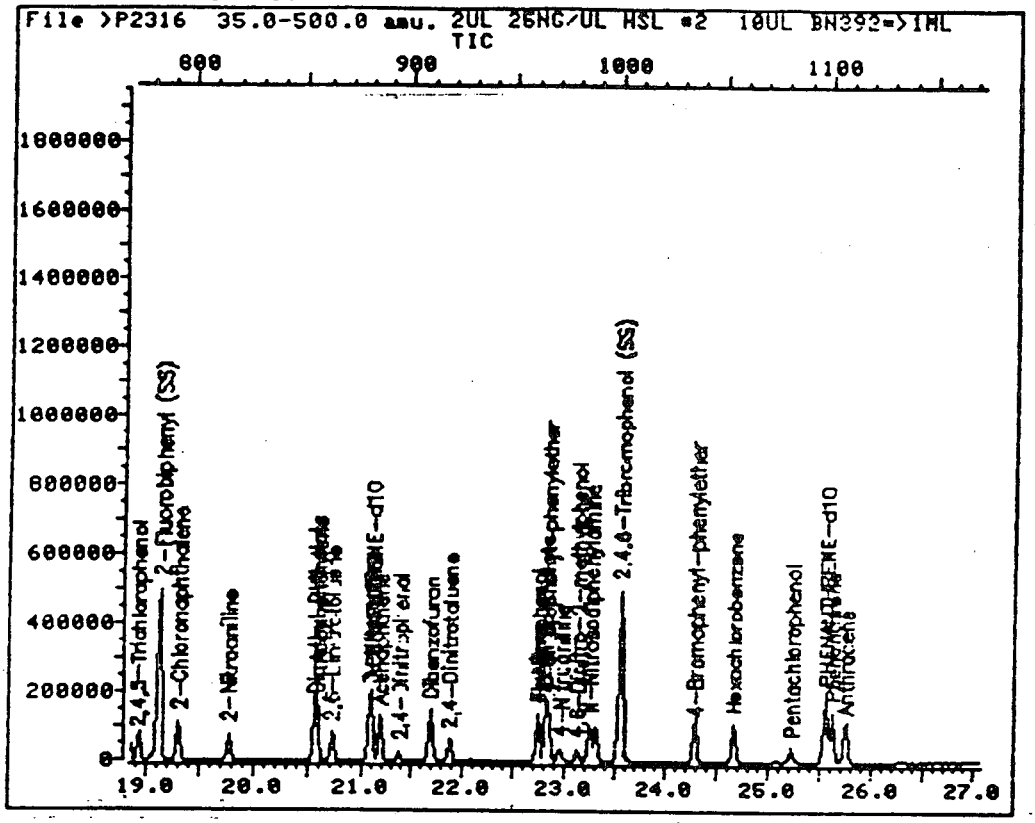
BTL#83

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 19:58
Injected at: 860821 19:13

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2316::D3
Name: 2UL 25NG/UL HSL #2
Misc: 10UL BN392=>1ML

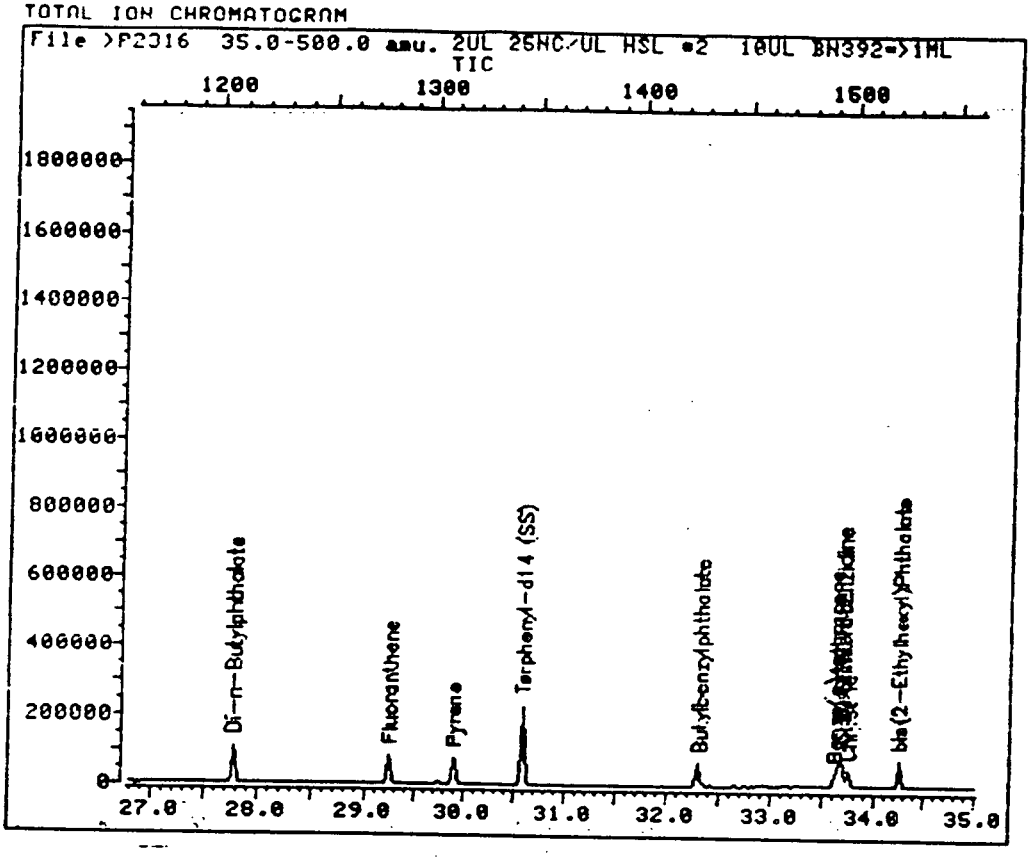
BTL#83

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 19:58
Injected at: 860821 19:13

TIC page 3 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2316::D3
Name: 2UL 25NG/UL HSL #2
Misc: 10UL BN392=>1ML

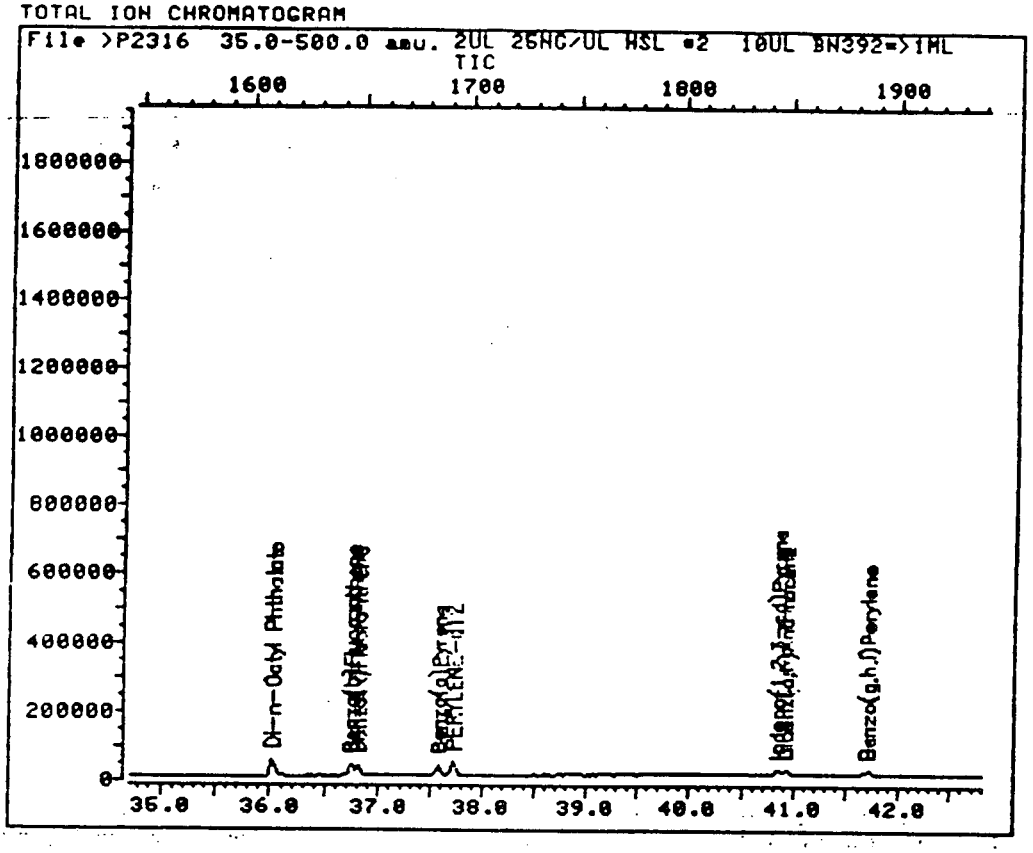
BTL#83

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 19:58
Injected at: 860821 19:13

TIC page 4 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2316::D3
Name: 2UL 25NG/UL HSL #2
Misc: 10UL BN392=>1ML

BTL#83

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 19:58
Injected at: 860821 19:13

TIC page 5 of 5

QUANT REPORT

Operator ID: STEVE
Output File: ^P2316::OP
Data File: >P2316::D3
Name: 2UL 25NG/UL HSL #2
Misc: 10UL BN392=>1ML

Quant Rev: 4
Quant Time: 860821 19:58
Injected at: 860821 19:13
Dilution Factor: 1.00

BTL#83

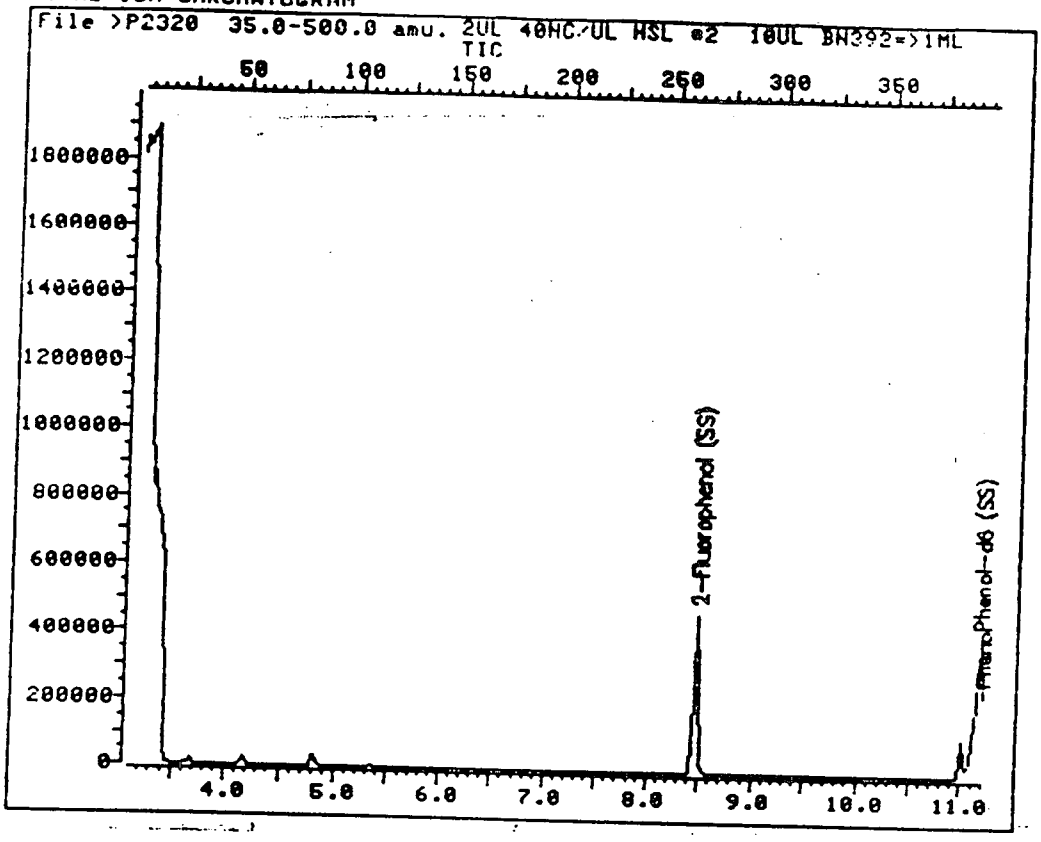
ID File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.79	426	68752	40.00	NG	88
3)	2-Fluorophenol (SS)	8.54	267	446093	20.85	NG	87
4)	Phenol	11.20	397	59790	13.10	NG	83
6)	bis(-2-Chloroethyl)Ether	11.26	400	54758	14.68	NG	96
7)	Phenol-d6 (SS)	11.18	396	520807	16.15	NG	83
8)	2-Chlorophenol	11.30	402	47665	13.06	NG	83
9)	1,3-Dichlorobenzene	11.67	420	57069	20.86	NG	85
10)	1,4-Dichlorobenzene	11.83	428	58722	21.86	NG	80
11)	Benzyl Alcohol	12.35	453	30586M	35.02	NG	45
12)	1,2-Dichlorobenzene	12.35	453	54654	19.18	NG	87
13)	2-Methylphenol	12.82	476	39732	14.79	NG	87
14)	bis(2-Chloroisopropyl)ether	12.86	478	60945M	16.51	NG	
15)	4-Methylphenol	13.27	498	37184	11.99	NG	45
16)	N-Nitroso-Di-n-Propylamine	13.27	498	40231	13.28	NG	86
17)	Hexachloroethane	13.25	497	24294	19.23	NG	65
18)	*NAPHTHALENE-d8	15.58	611	231082	40.00	NG	46
19)	Nitrobenzene-d5 (SS)	13.51	510	247596	25.89	NG	89
20)	Nitrobenzene	13.55	512	52391	19.23	NG	71
21)	Isophorone	14.29	548	96547	18.58	NG	43
22)	2-Nitrophenol	14.51	559	23795	18.54	NG	83
23)	2,4-Dimethylphenol	14.82	574	31173M	17.77	NG	
24)	Benzoic Acid	15.25	595	10177M	10.03	NG	69
25)	bis(-2-Chloroethoxy)Methane	15.11	588	58060	22.37	NG	86
26)	2,4-Dichlorophenol	15.25	595	34417	18.72	NG	93
27)	1,2,4-Trichlorobenzene	15.49	607	48253	24.85	NG	88
28)	Naphthalene	15.64	614	147797	25.09	NG	39
29)	4-Chloroaniline	15.95	629	54173	45.59	NG	97
30)	Hexachlorobutadiene	16.31	647	30040	24.04	NG	76
31)	4-Chloro-3-Methylphenol	17.58	709	37378	14.42	NG	93
32)	2-Methylnaphthalene	17.81	720	86887	20.24	NG	98
33)	*ACENAPHTHENE-d10	21.10	881	104788	40.00	NG	96
34)	Hexachlorocyclopentadiene	18.58	758	25442	29.80	NG	87
35)	2,4,6-Trichlorophenol	18.83	770	27066	23.10	NG	99
36)	2,4,5-Trichlorophenol	18.91	774	27770	20.23	NG	93
37)	2-Chloronaphthalene	19.30	793	79602	27.03	NG	87
38)	2-Fluorobiphenyl (SS)	19.13	785	456185	26.83	NG	99
39)	2-Nitroaniline	19.77	816	30462	22.73	NG	72
40)	Dimethyl Phthalate	20.57	855	127548	30.79	NG	75
41)	Acenaphthylene	20.59	856	138433	28.93	NG	34
42)	3-Nitroaniline	21.08	880	23413	25.80	NG	31
43)	Acenaphthene	21.18	885	87856	29.22	NG	96
44)	2,4-Dinitrophenol	21.38	895	6877	11.01	NG	[illegible]

	Compound	R.T.	Scan#	Area	Conc	Units	q
49)	Diethylphthalate	22.82	965	126104	27.42	NG	98
50)	4-Chlorophenyl-phenylether	22.84	966	55506	32.89	NG	96
51)	Fluorene	22.73	961	101904	28.37	NG	86
52)	4-Nitroaniline	22.96	972	16315	19.43	NG	44
53)	2,4,6-Tribromophenol (SS)	23.55	1001	215762	71.34	NG	82
54)	*PHENANTHRENE-d10	25.56	1099	200587	40.00	NG	54
55)	4,6-Dinitro-2-methylphenol	23.12	980	10990	11.76	NG	42
56)	N-Nitrosodiphenylamine	23.25	986	73028	26.65	NG	91
58)	4-Bromophenyl-phenylether	24.29	1037	37823	27.86	NG	85
59)	Hexachlorobenzene	24.66	1055	39860	21.62	NG	83
60)	Pentachlorophenol	25.23	1083	11950	13.72	NG	94
61)	Phenanthrene	25.62	1102	132410	24.48	NG	49
62)	Anthracene	25.74	1108	134346	26.61	NG	45
63)	Di-n-Butylphthalate	27.77	1207	136804	17.59	NG	86
64)	Fluoranthene	29.24	1279	99623	19.02	NG	58
65)	*CHRYSENE-d12	33.68	1496	77127	40.00	NG	48
66)	Terphenyl-d14 (SS)	30.59	1345	216339	32.37	NG	36
68)	Pyrene	29.90	1311	94950	25.37	NG	39
69)	Butylbenzylphthalate	32.31	1429	34080	19.67	NG	93
70)	3,3'-Dichlorobenzidine	33.68	1496	11473	19.43	NG	91
71)	Benzo(a)Anthracene	33.62	1493	50955	20.65	NG	77
72)	bis(2-Ethylhexyl)Phthalate	34.26	1524	42112	14.79	NG	82
73)	Chrysene	33.75	1499	48117	22.77	NG	92
74)	*PERYLENE-d12	37.72	1693	49622	40.00	NG	79
75)	Di-n-Octyl Phthalate	36.02	1610	56616	23.41	NG	100
76)	Benzo(b)Fluoranthene	36.74	1645	43394	24.80	NG	97
77)	Benzo(k)Fluoranthene	36.80	1648	36078	23.43	NG	95
78)	Benzo(a)Pyrene	37.58	1686	33737	22.14	NG	94
79)	Indeno(1,2,3-cd)Pyrene	40.84	1845	32577	19.13	NG	84
80)	Dibenz(a,h)Anthracene	40.92	1849	30239	23.24	NG	81
81)	Benzo(g,h,i)Perylene	41.70	1887	31396	24.03	NG	70

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >P2320::D3
Name: 2UL 40NG/UL HSL #2
Misc: 10UL BN392=>1ML

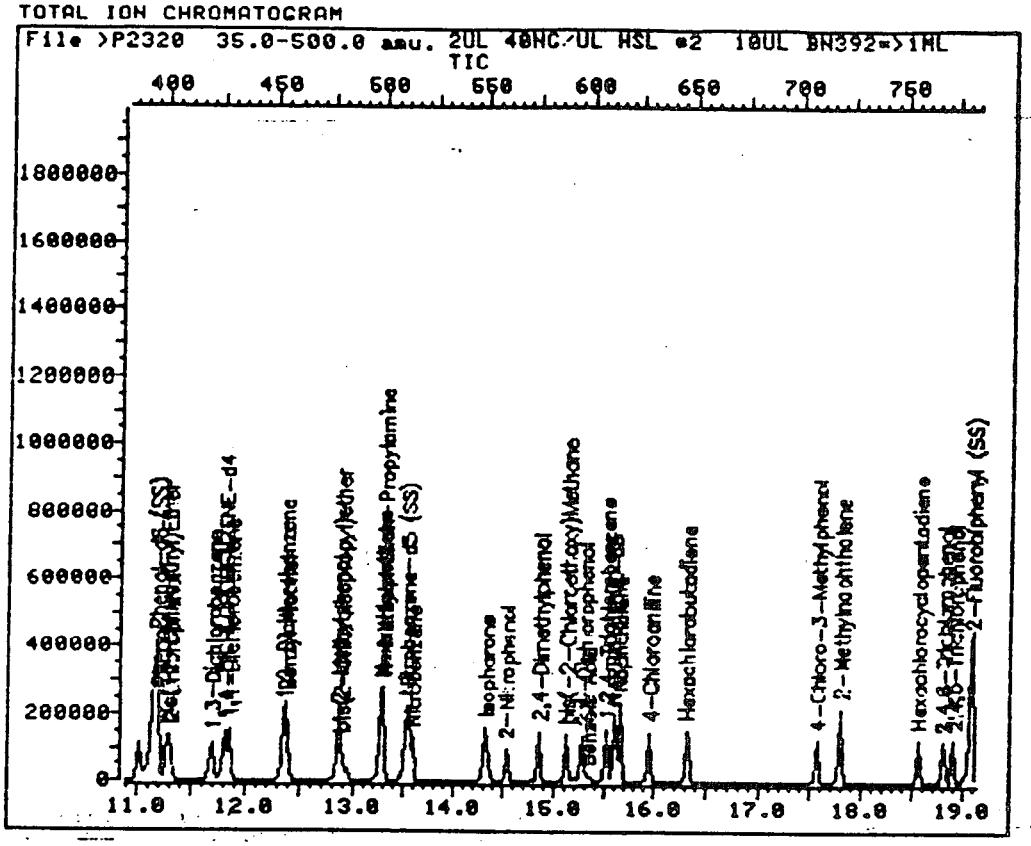
BTL#87

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 23:25
Injected at: 860821 22:40

TIC page 1 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2320::D3
Name: 2UL 40NG/UL HSL #2
Misc: 10UL BN392=>1ML

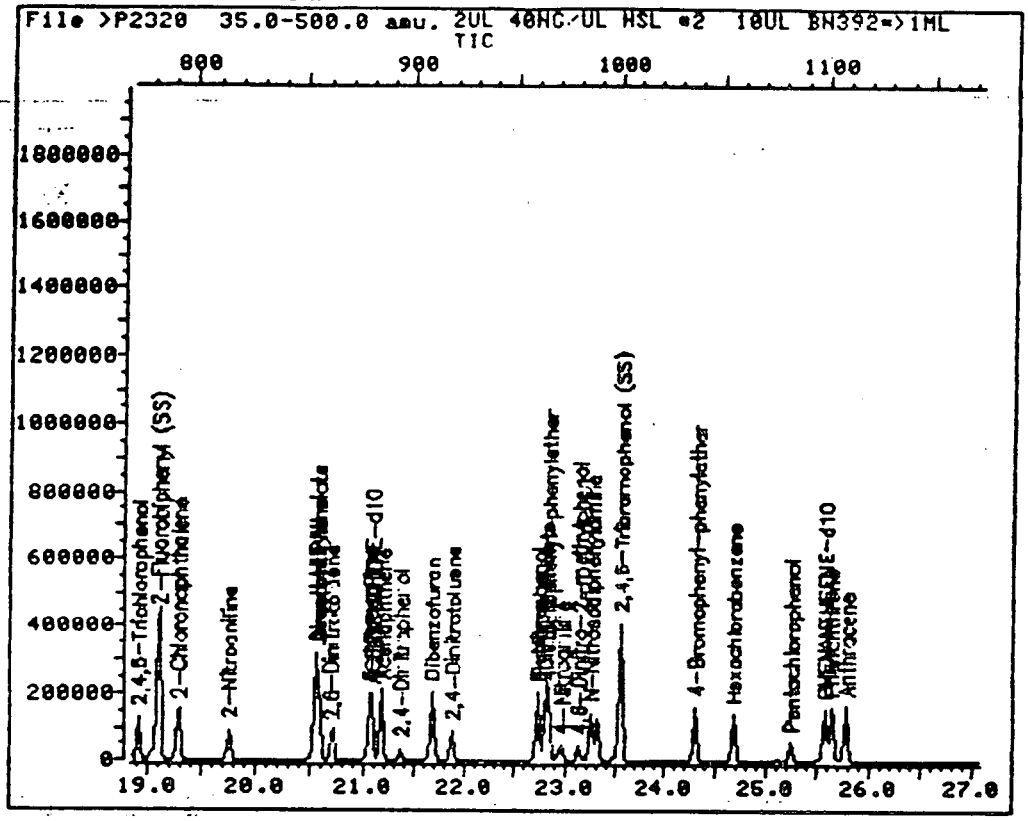
BTL#87

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 23:25
Injected at: 860821 22:40

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



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Name: 2UL 40NG/UL HSL #2
Misc: 10UL BN392=>1ML

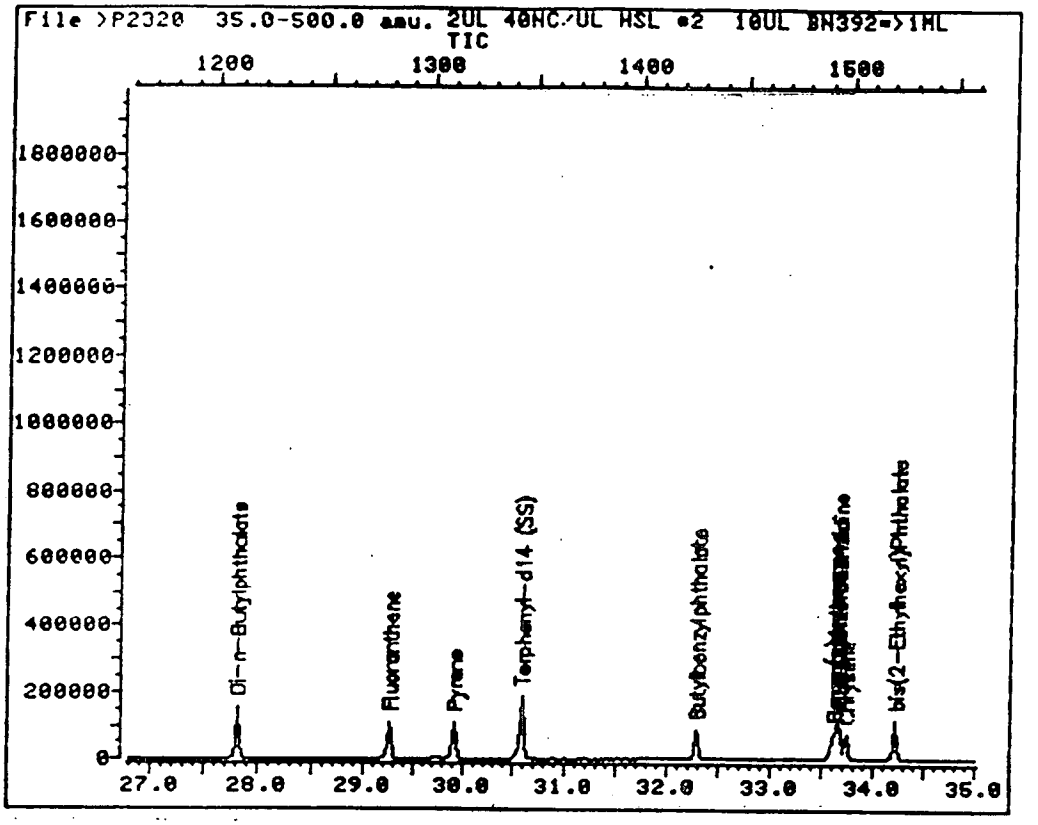
BTL#87

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 23:25
Injected at: 860821 22:40

TIC page 3 of 5

TOTAL ION CHROMATOGRAM



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Misc: 10UL BN392=>1ML

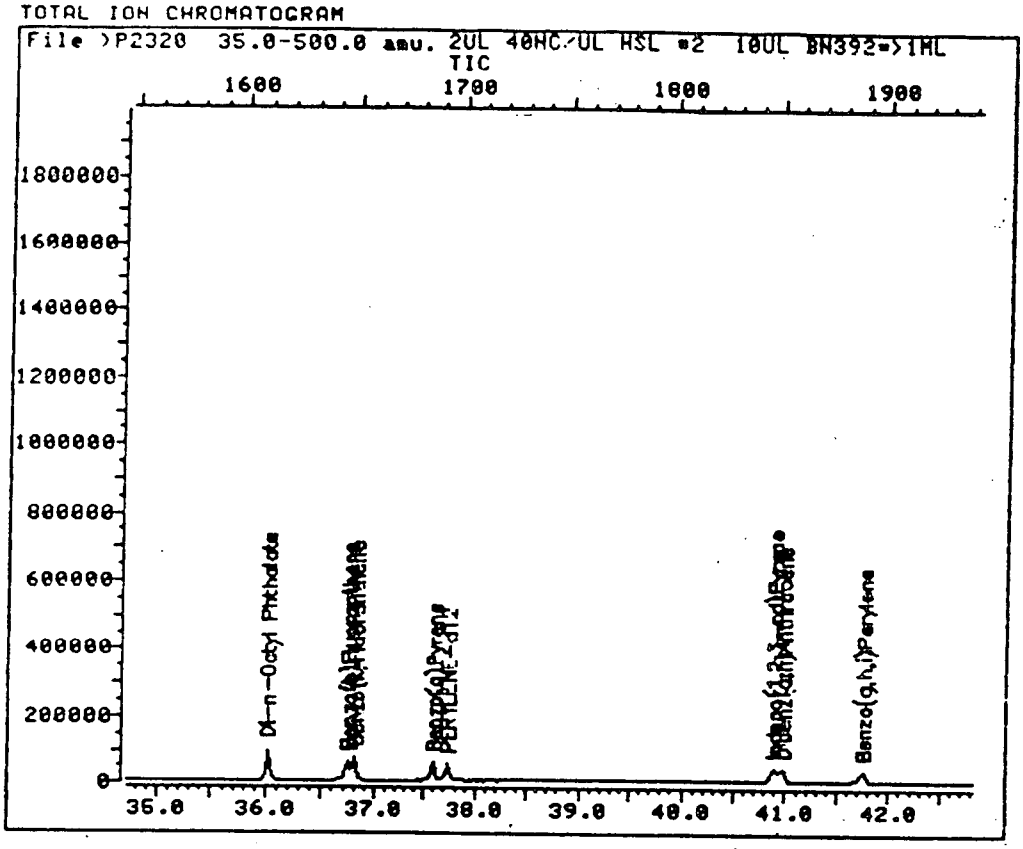
BTL#87

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 23:25
Injected at: 860821 22:40

TIC page 4 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2320::D3
Name: 2UL 40NG/UL HSL #2
Misc: 10UL BN392=>1ML

BTL#87

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: STEVE
Quant Time: 860821 23:25
Injected at: 860821 22:40

TIC page 5 of 5

QUANT REPORT

Operator ID: STEVE
Output File: ^P2320::OP
Data File: >P2320::D3
Name: 2UL 40NG/UL HSL #2
Misc: 10UL BN392=>1ML

Quant Rev: 4
Quant Time: 860821 23:25
Injected at: 860821 22:40
Dilution Factor: 1.00

BTL#87

ID File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.81	427	52718	40.00	NG	94
3)	2-Fluorophenol (SS)	8.48	264	351771	21.44	NG	87
4)	Phenol	11.20	397	86128	24.60	NG	77
6)	bis(-2-Chloroethyl)Ether	11.28	401	87987	30.77	NG	92
7)	Phenol-d6 (SS)	11.18	396	462248	18.70	NG	81
8)	2-Chlorophenol	11.30	402	73035	26.09	NG	95
9)	1,3-Dichlorobenzene	11.69	421	80953	38.58	NG	82
10)	1,4-Dichlorobenzene	11.86	429	78971	38.34	NG	88
11)	Benzyl Alcohol	12.39	455	49880M	74.48	NG	72
12)	1,2-Dichlorobenzene	12.37	454	74524	34.11	NG	89
13)	2-Methylphenol	12.86	478	59312	28.79	NG	96
14)	bis(2-Chloroisopropyl)ether	12.88	479	89265	31.54	NG	66
15)	4-Methylphenol	13.31	500	67799	28.50	NG	45
16)	N-Nitroso-Di-n-Propylamine	13.31	500	61926	26.66	NG	93
17)	Hexachloroethane	13.29	499	34272	35.37	NG	97
18)	*NAPHTHALENE-d8	15.60	612	213539	40.00	NG	46
19)	Nitrobenzene-d5 (SS)	13.53	511	226123	25.58	NG	88
20)	Nitrobenzene	13.59	514	79205	31.47	NG	62
21)	Isophorone	14.33	550	159266	33.17	NG	42
22)	2-Nitrophenol	14.53	560	33098	27.91	NG	74
23)	2,4-Dimethylphenol	14.86	576	50016	30.86	NG	27
24)	Benzoic Acid	15.33	599	21088M	22.49	NG	68
25)	bis(-2-Chloroethoxy)Methane	15.13	589	91876	38.31	NG	85
26)	2,4-Dichlorophenol	15.29	597	50958	30.00	NG	97
27)	1,2,4-Trichlorobenzene	15.52	608	71452	39.82	NG	95
28)	Naphthalene	15.66	615	225287	41.39	NG	38
29)	4-Chloroaniline	15.97	630	79358	72.27	NG	98
30)	Hexachlorobutadiene	16.31	647	48186	41.73	NG	86
31)	4-Chloro-3-Methylphenol	17.58	709	55879	23.33	NG	70
32)	2-Methylnaphthalene	17.81	720	139686	35.21	NG	96
33)	*ACENAPHTHENE-d10	21.08	880	94354	40.00	NG	96
34)	Hexachlorocyclopentadiene	18.56	757	39712	51.67	NG	89
35)	2,4,6-Trichlorophenol	18.81	769	36981	35.06	NG	86
36)	2,4,5-Trichlorophenol	18.91	774	39908	32.29	NG	87
37)	2-Chloronaphthalene	19.28	792	128775	48.56	NG	84
38)	2-Fluorobiphenyl (SS)	19.09	783	405267	26.47	NG	95
39)	2-Nitroaniline	19.75	815	39673	32.88	NG	77
40)	Dimethyl Phthalate	20.57	855	154071	41.31	NG	74
41)	Acenaphthylene	20.57	855	199811	46.37	NG	33
42)	3-Nitroaniline	21.06	879	29470	36.07	NG	39
43)	Acenaphthene	21.18	885	130650	48.26	NG	98
44)	2,4-Dinitrophenol	21.37	894	[illegible]	[illegible]	[illegible]	[illegible]

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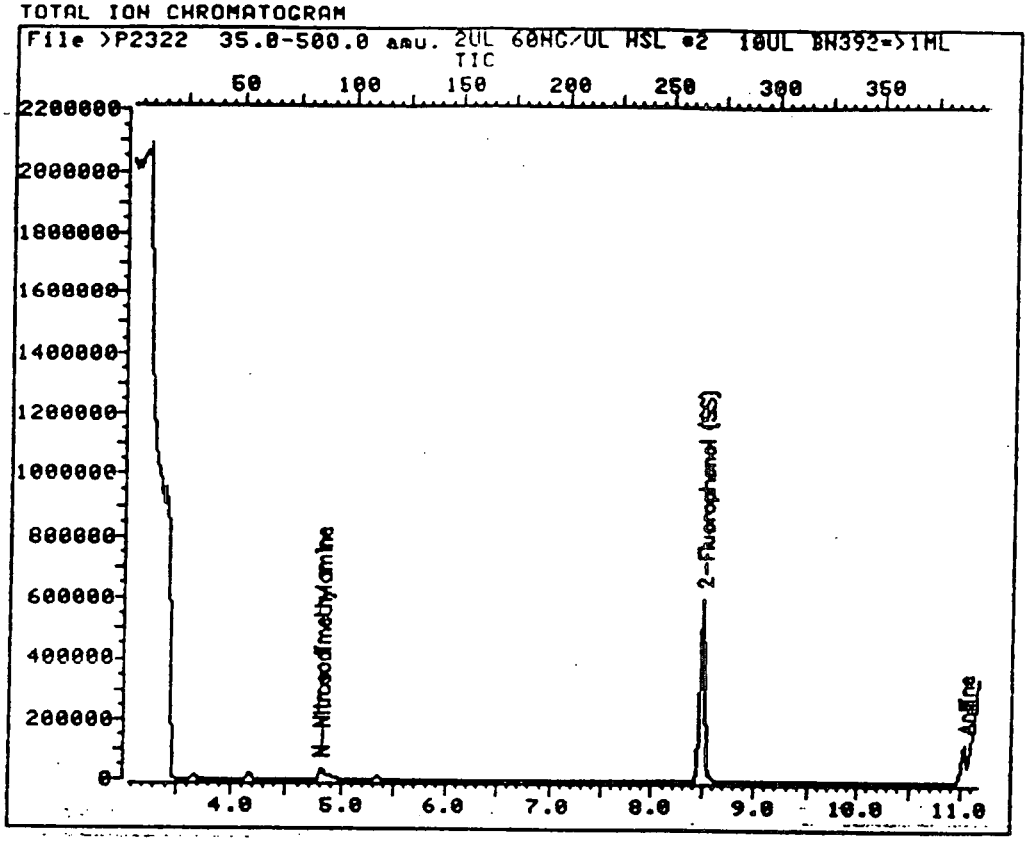
	Compound	R.T.	Scan#	Area	Conc	Units	q
49)	Diethylphthalate	22.82	965	152067	36.72	NG	99
50)	4-Chlorophenyl-phenylether	22.84	966	72561	47.75	NG	93
51)	Fluorene	22.74	961	140691	43.51	NG	83
52)	4-Nitroaniline	22.96	972	23369M	30.91	NG	54
53)	2,4,6-Tribromophenol (SS)	23.55	1001	161497	59.30	NG	83
54)	*PHENANTHRENE-d10	25.58	1100	153756	40.00	NG	52
55)	4,6-Dinitro-2-methylphenol	23.12	980	14767	20.61	NG	39
56)	N-Nitrosodiphenylamine	23.25	986	84497	40.22	NG	97
58)	4-Bromophenyl-phenylether	24.31	1038	47513	45.65	NG	82
59)	Hexachlorobenzene	24.68	1056	54085	38.27	NG	79
60)	Pentachlorophenol	25.25	1084	17625	26.41	NG	94
61)	Phenanthrene	25.64	1103	167850	40.48	NG	49
62)	Anthracene	25.79	1110	162667	42.03	NG	45
63)	Di-n-Butylphthalate	27.81	1209	169297	28.40	NG	86
64)	Fluoranthene	29.26	1280	128224	31.93	NG	60
65)	*CHRYSENE-d12	33.66	1495	76434	40.00	NG	48
66)	Terphenyl-d14 (SS)	30.59	1345	181887	27.46	NG	37
68)	Pyrene	29.92	1312	126713	34.17	NG	40
69)	Butylbenzylphthalate	32.29	1428	51705	30.12	NG	94
70)	3,3'-Dichlorobenzidine	33.66	1495	27979	47.82	NG	94
71)	Benzo(a)Anthracene	33.62	1493	89521	36.61	NG	75
72)	bis(2-Ethylhexyl)Phthalate	34.23	1523	68552	24.30	NG	87
73)	Chrysene	33.74	1499	79714	38.07	NG	96
74)	*PERYLENE-d12	37.74	1694	62254	40.00	NG	79
75)	Di-n-Octyl Phthalate	36.01	1610	112487	37.08	NG	100
76)	Benzo(b)Fluoranthene	36.75	1646	80418	36.64	NG	96
77)	Benzo(k)Fluoranthene	36.81	1649	71062	36.79	NG	94
78)	Benzo(a)Pyrene	37.59	1687	66062	34.56	NG	94
79)	Indeno(1,2,3-cd)Pyrene	40.89	1848	89928	42.08	NG	90
80)	Dibenz(a,h)Anthracene	40.97	1852	70531	43.21	NG	80
81)	Benzo(g,h,i)Perylene	41.75	1890	74207	45.27	NG	66

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >P2322::D3
Name: 2UL 60NG/UL HSL #2
Misc: 10UL BN392=>1ML

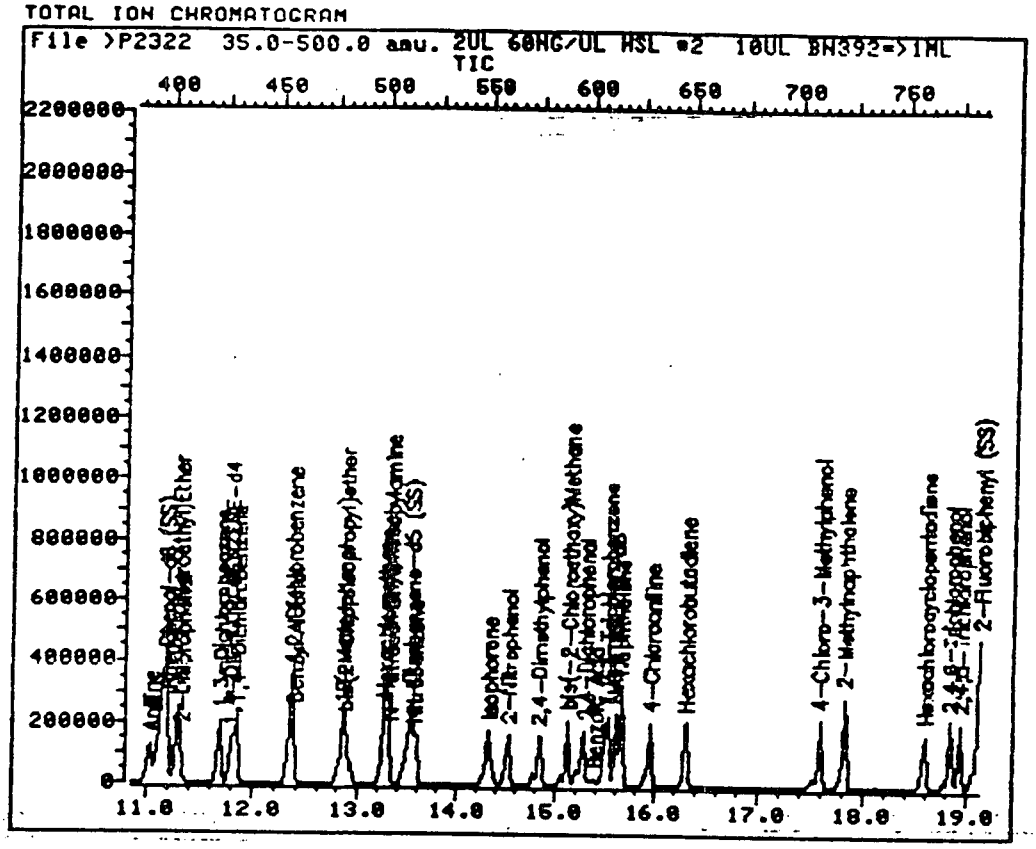
BTL#89

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: GLENN
Quant Time: 860822 10:50
Injected at: 860822 10:05

TIC page 1 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2322::D3
Name: 2UL 60NG/UL HSL #2
Misc: 10UL BN392=>1ML

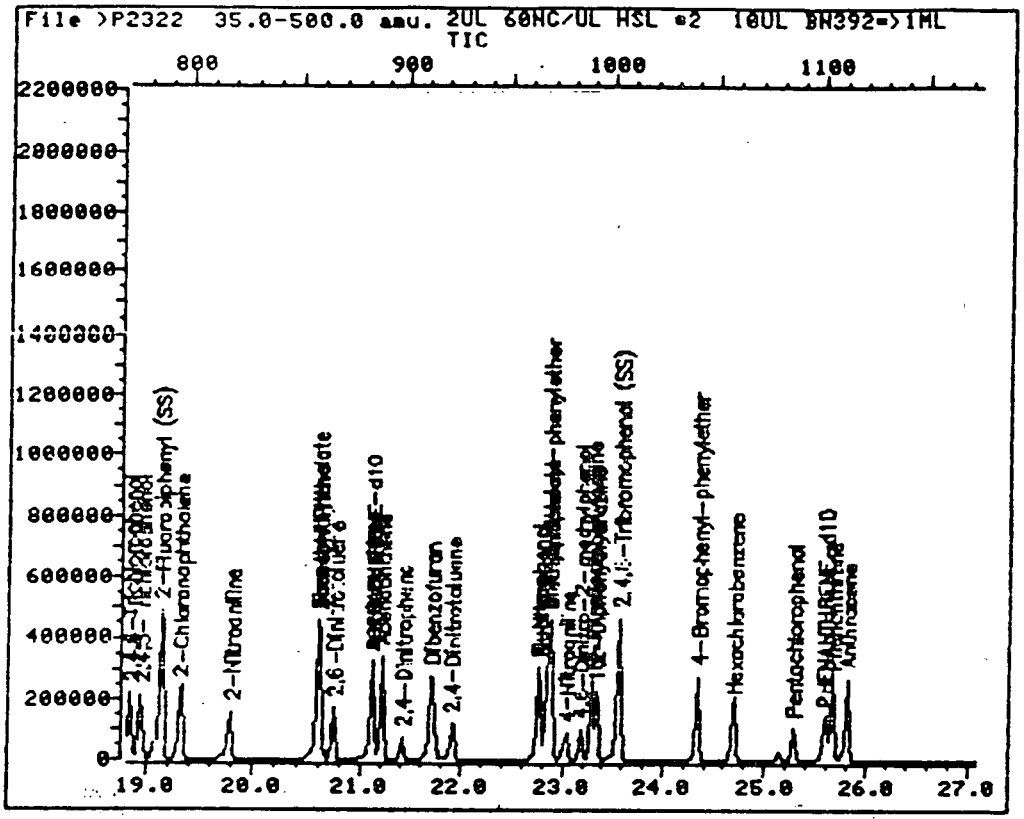
BTL#89

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: GLENN
Quant Time: 860822 10:50
Injected at: 860822 10:05

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2322::D3
Name: 2UL 60NG/UL HSL #2
Misc: 10UL BN392=>1ML

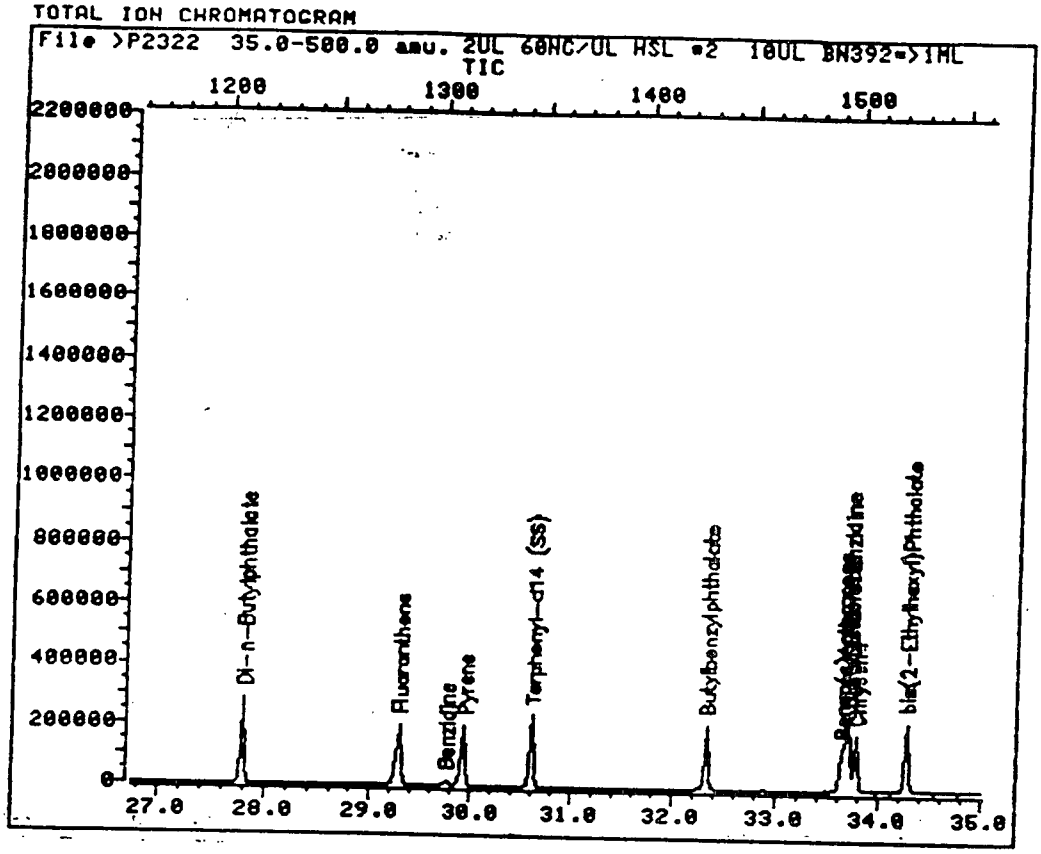
BTL#89

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: GLENN
Quant Time: 860822 10:50
Injected at: 860822 10:05

TIC page 3 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2322::D3
Name: 2UL 60NG/UL HSL #2
Misc: 10UL BN392=>1ML

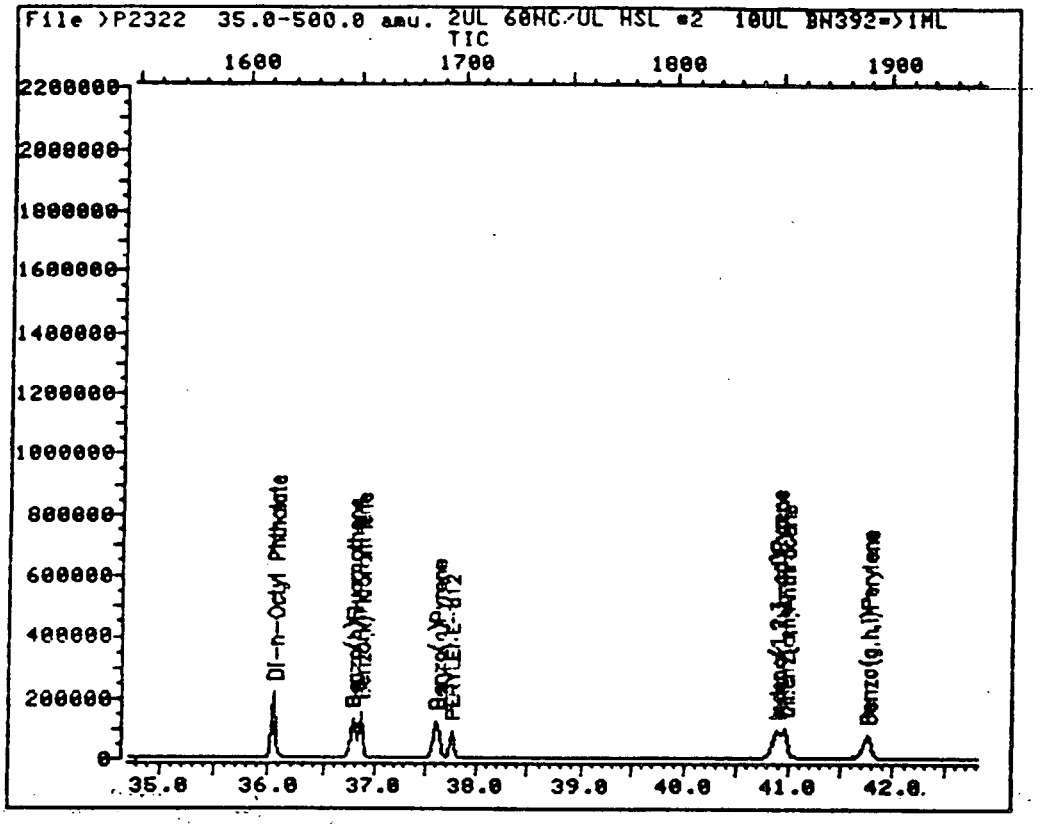
BTL#89

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: GLENN
Quant Time: 860822 10:50
Injected at: 860822 10:05

TIC page 4 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2322::D3
Name: 2UL 60NG/UL HSL #2
Misc: 10UL BN392=>1ML

BTL#89

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: GLENN
Quant Time: 860822 10:50
Injected at: 860822 10:05

TIC page 5 of 5

QUANT REPORT

Operator ID: GLENN
Output File: ^P2322::OP
Data File: >P2322::D3
Name: 2UL 60NG/UL HSL #2
Misc: 10UL BN392=>1ML

Quant Rev: 4
Quant Time: 860822 10:50
Injected at: 860822 10:05
Dilution Factor: 1.00

BTL#89

ID File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.80	428	61688	40.00	NG	93
2)	N-Nitrosodimethylamine	4.81	86	91720	116.28	NG	91
3)	2-Fluorophenol (SS)	8.51	267	420435	21.90	NG	87
4)	Phenol	11.21	399	99409	24.27	NG	69
5)	Aniline	11.05	391	149843	224.21	NG	85
6)	bis(-2-Chloroethyl)Ether	11.31	404	145332	43.43	NG	77
7)	Phenol-d6 (SS)	11.19	398	503800	17.42	NG	83
8)	2-Chlorophenol	11.33	405	118663	36.23	NG	93
9)	1,3-Dichlorobenzene	11.70	423	133136	54.23	NG	94
10)	1,4-Dichlorobenzene	11.87	431	135803	56.35	NG	89
11)	Benzyl Alcohol	12.40	457	79524M	101.48	NG	72
12)	1,2-Dichlorobenzene	12.38	456	132073	51.66	NG	95
13)	2-Methylphenol	12.85	479	99668	41.34	NG	95
14)	bis(2-Chloroisopropyl)ether	12.87	480	156902	47.37	NG	78
15)	4-Methylphenol	13.30	501	109943	39.50	NG	46
16)	N-Nitroso-Di-n-Propylamine	13.32	502	94726	34.85	NG	86
17)	Hexachloroethane	13.26	499	54321	47.91	NG	70
18)	*NAPHTHALENE-d8	15.59	613	230318	40.00	NG	47
19)	Nitrobenzene-d5 (SS)	13.52	512	254099	26.66	NG	88
20)	Nitrobenzene	13.56	514	119171	43.90	NG	75
21)	Isophorone	14.32	551	261686	50.52	NG	42
22)	2-Nitrophenol	14.52	561	64869	50.71	NG	86
23)	2,4-Dimethylphenol	14.83	576	68269	39.05	NG	39
24)	Benzoic Acid	15.38	603	41756M	41.29	NG	53
25)	bis(-2-Chloroethoxy)Methane	15.12	590	131653	50.89	NG	84
26)	2,4-Dichlorophenol	15.28	598	75162	41.02	NG	86
27)	1,2,4-Trichlorobenzene	15.51	609	119414	61.70	NG	96
28)	Naphthalene	15.65	616	353729	60.25	NG	38
29)	4-Chloroaniline	15.96	631	150031	126.68	NG	86
30)	Hexachlorobutadiene	16.31	648	76151	61.15	NG	93
31)	4-Chloro-3-Methylphenol	17.59	711	88500	34.25	NG	90
32)	2-Methylnaphthalene	17.82	722	221538	51.77	NG	96
33)	*ACENAPHTHENE-d10	21.12	883	108503	40.00	NG	99
34)	Hexachlorocyclopentadiene	18.60	760	66951	75.75	NG	85
35)	2,4,6-Trichlorophenol	18.84	772	74366	61.30	NG	98
36)	2,4,5-Trichlorophenol	18.94	777	61132	43.01	NG	96
37)	2-Chloronaphthalene	19.31	795	221982	72.79	NG	89
38)	2-Fluorobiphenyl (SS)	19.13	786	463001	26.30	NG	98
39)	2-Nitroaniline	19.80	819	69364	49.99	NG	73
40)	Dimethyl Phthalate	20.60	858	244848	57.08	NG	76
41)	Acenaphthylene	20.60	858	360758	72.80	NG	33
42)	3-Nitroaniline	21.12	883	53751M	[illegible]	NG	[illegible]

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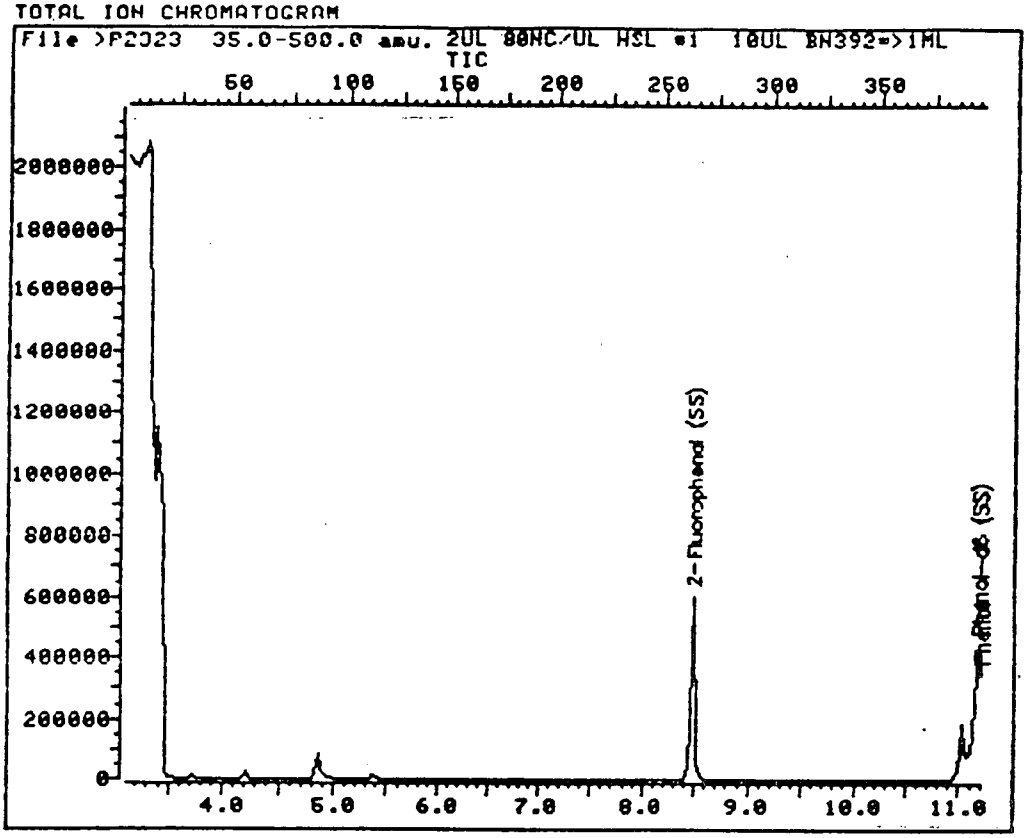
	Compound	R.T.	Scan#	Area	Conc	Units	q
47)	2,4-Dinitrotoluene	21.91	922	45070	44.04	NG	88
48)	2,6-Dinitrotoluene	20.75	865	52327	51.42	NG	93
49)	Diethylphthalate	22.88	969	247119	51.88	NG	98
50)	4-Chlorophenyl-phenylether	22.88	969	125454	71.80	NG	93
51)	Fluorene	22.77	964	243744	65.54	NG	83
52)	4-Nitroaniline	23.04	977	44770M	51.49	NG	67
53)	2,4,6-Tribromophenol (SS)	23.59	1004	173606	55.44	NG	86
54)	*PHENANTHRENE-d10	25.58	1101	174298	40.00	NG	51
55)	4,6-Dinitro-2-methylphenol	23.18	984	29999	36.93	NG	36
56)	N-Nitrosodiphenylamine	23.31	990	154177	64.74	NG	92
57)	1,2-Diphenylhydrazine	23.35	992	288278	61.15	NG	72
58)	4-Bromophenyl-phenylether	24.35	1041	79953	67.77	NG	90
59)	Hexachlorobenzene	24.70	1058	89846	56.08	NG	78
60)	Pentachlorophenol	25.27	1086	33134	43.79	NG	95
61)	Phenanthrene	25.66	1105	285558	60.76	NG	46
62)	Anthracene	25.80	1112	271031	61.77	NG	42
63)	Di-n-Butylphthalate	27.81	1210	321921	47.64	NG	86
64)	Fluoranthene	29.28	1282	240890	52.92	NG	62
65)	*CHRYSENE-d12	33.70	1498	114870	40.00	NG	47
66)	Terphenyl-d14 (SS)	30.61	1347	230355	23.14	NG	39
67)	Benzidine	29.75	1305	13235	30.19	NG	92
68)	Pyrene	29.94	1314	240206	43.10	NG	41
69)	Butylbenzylphthalate	32.33	1431	122422	47.45	NG	96
70)	3,3'-Dichlorobenzidine	33.70	1498	70621	80.31	NG	82
71)	Benzo(a)Anthracene	33.64	1495	195237	53.13	NG	74
72)	bis(2-Ethylhexyl)Phthalate	34.28	1526	157194	37.08	NG	90
73)	Chrysene	33.79	1502	181137	57.56	NG	92
74)	*PERYLENE-d12	37.76	1696	98629	40.00	NG	76
75)	Di-n-Octyl Phthalate	36.06	1613	269934	56.17	NG	100
76)	Benzo(b)Fluoranthene	36.78	1648	204601	58.84	NG	97
77)	Benzo(k)Fluoranthene	36.86	1652	153544	50.18	NG	97
78)	Benzo(a)Pyrene	37.62	1689	162125	53.53	NG	93
79)	Indeno(1,2,3-cd)Pyrene	40.89	1849	220801	65.22	NG	91
80)	Dibenz(a,h)Anthracene	40.98	1853	173950	67.27	NG	81
81)	Benzo(g,h,i)Perylene	41.75	1891	178763	68.84	NG	70

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >P2323::D3
Name: 2UL 80NG/UL HSL #1
Misc: 10UL BN392=>1ML

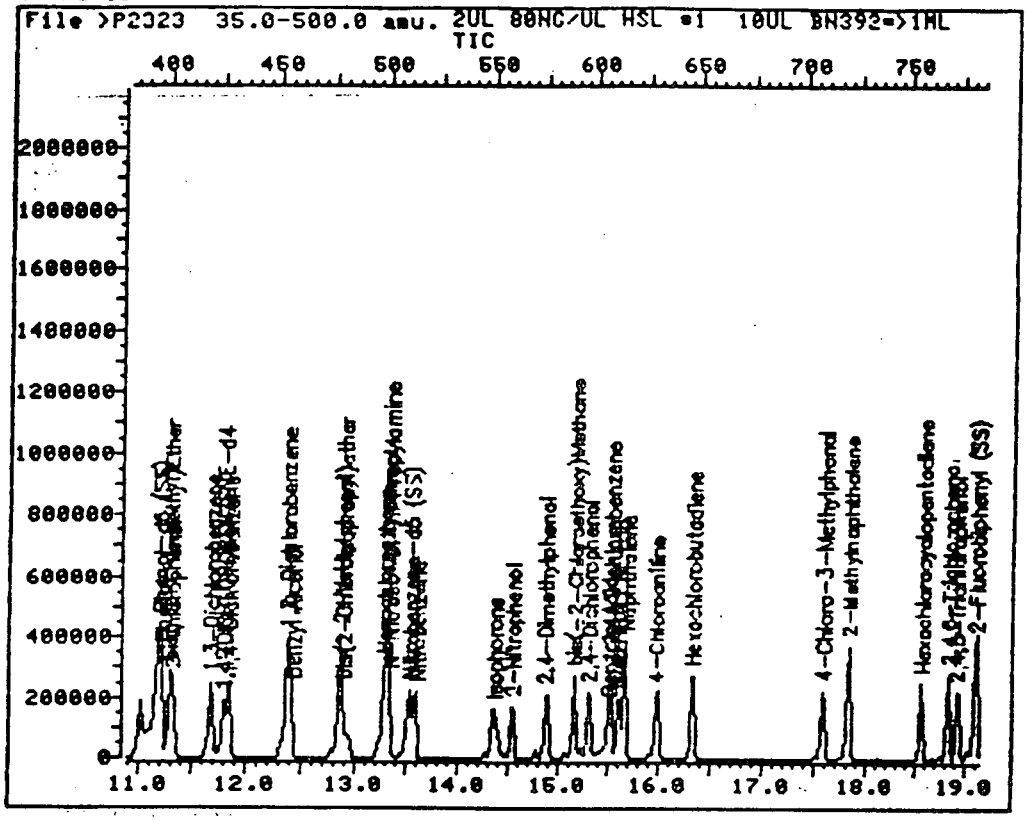
BTL#90

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: GLENN
Quant Time: 860822 11:42
Injected at: 860822 10:57

TIC page 1 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2323::D3
Name: 2UL 80NG/UL HSL #1
Misc: 10UL BN392=>1ML

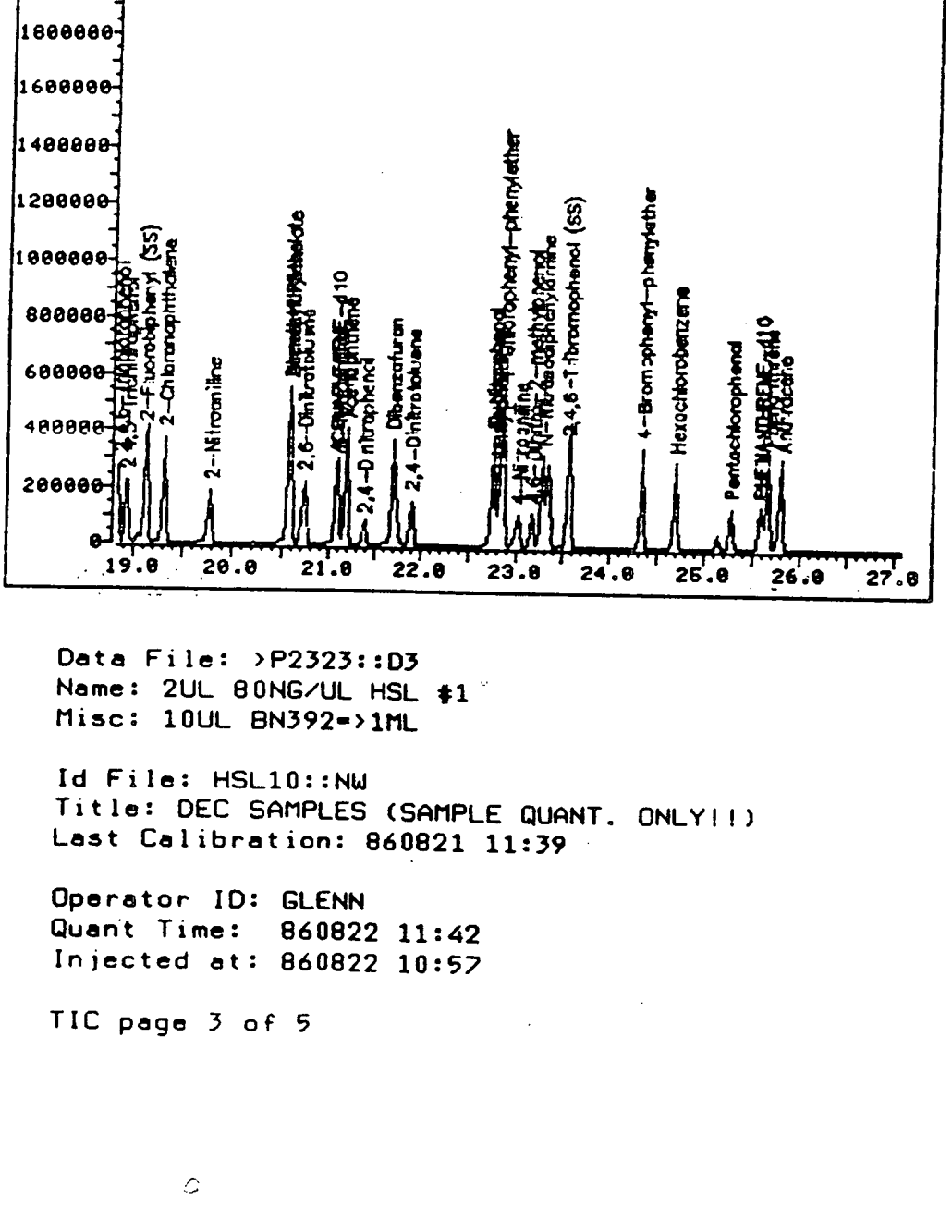
BTL#90

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: GLENN
Quant Time: 860822 11:42
Injected at: 860822 10:57

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2323::D3
Name: 2UL 80NG/UL HSL #1
Misc: 10UL BN392=>1ML

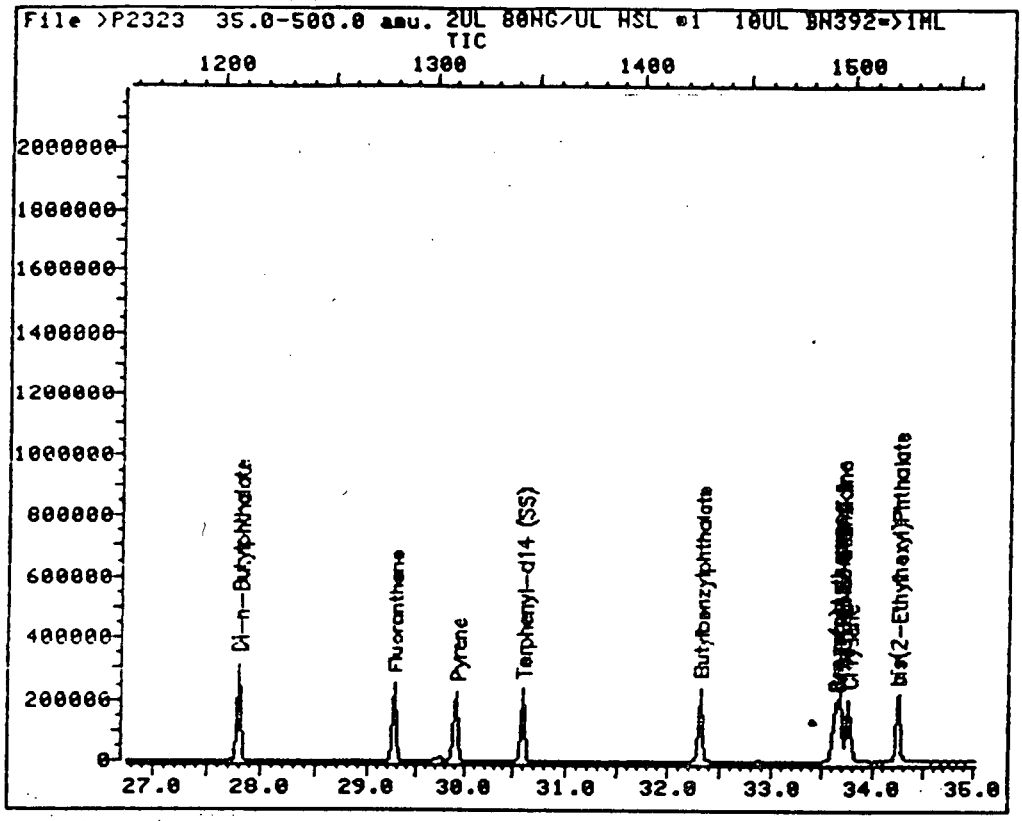
BTL#90

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: GLENN
Quant Time: 860822 11:42
Injected at: 860822 10:57

TIC page 3 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2323::D3
Name: 2UL 80NG/UL HSL #1
Misc: 10UL BN392=>1ML

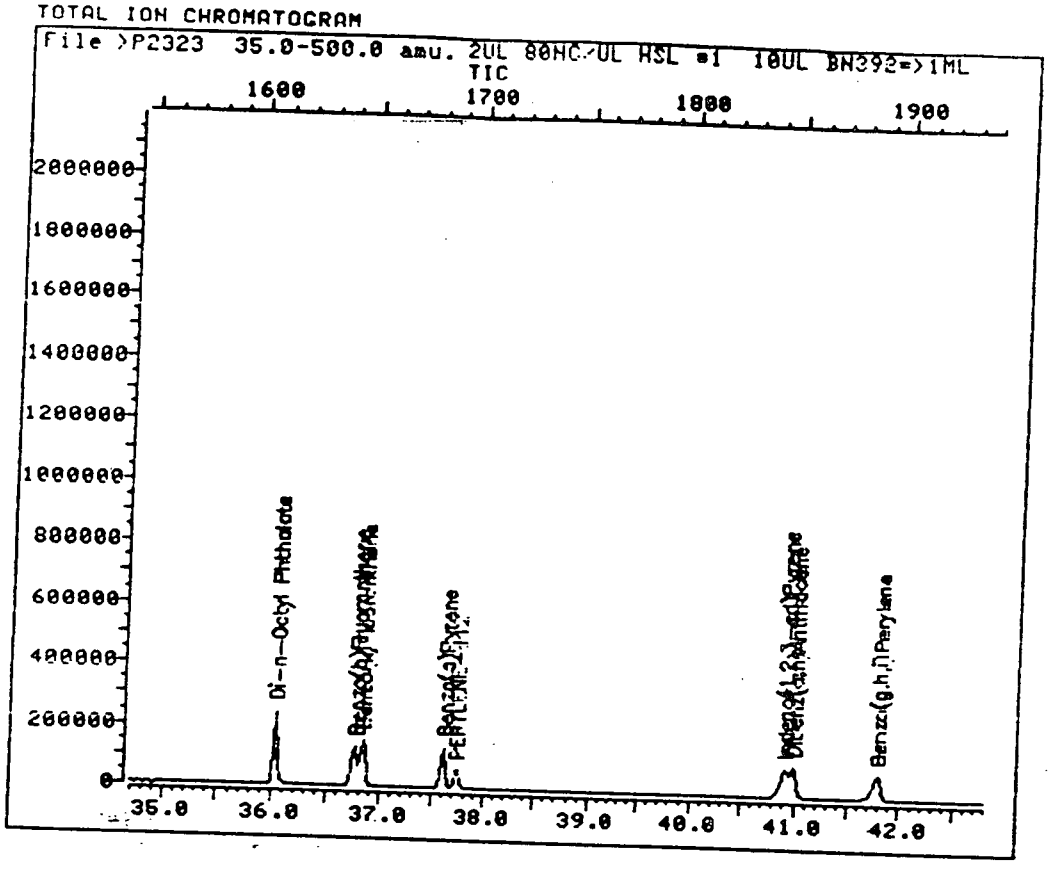
BTL#90

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: GLENN
Quant Time: 860822 11:42
Injected at: 860822 10:57

TIC page 4 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2323::D3
Name: 2UL 80NG/UL HSL #1
Misc: 10UL BN392=>1ML

BTL#90

Id File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

Operator ID: GLENN
Quant Time: 860822 11:42
Injected at: 860822 10:57

TIC page 5 of 5

QUANT REPORT

Operator ID: GLENN
Output File: ^P2323::OP
Data File: >P2323::D3
Name: 2UL 80NG/UL HSL #1
Misc: 10UL BN392=>1ML

Quant Rev: 4
Quant Time: 860822 11:42
Injected at: 860822 10:57
Dilution Factor: 1.00

BTL#90

ID File: HSL10::NW
Title: DEC SAMPLES (SAMPLE QUANT. ONLY!!)
Last Calibration: 860821 11:39

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.80	426	62949	40.00	NG	91
3)	2-Fluorophenol (SS)	8.49	264	436401	22.28	NG	94
4)	Phenol	11.21	397	173459	41.49	NG	76
6)	bis(-2-Chloroethyl)Ether	11.29	401	170188	49.84	NG	90
7)	Phenol-d6 (SS)	11.19	396	438005	14.84	NG	85
8)	2-Chlorophenol	11.31	402	150984	45.17	NG	87
9)	1,3-Dichlorobenzene	11.68	420	173379	69.20	NG	94
10)	1,4-Dichlorobenzene	11.84	428	178806	72.71	NG	89
11)	Benzyl Alcohol	12.42	456	103707M	129.69	NG	80
12)	1,2-Dichlorobenzene	12.37	454	162082	62.13	NG	94
13)	2-Methylphenol	12.87	478	111694	45.40	NG	97
14)	bis(2-Chloroisopropyl)ether	12.89	479	199943	59.16	NG	63
15)	4-Methylphenol	13.32	500	119081	41.92	NG	42
16)	N-Nitroso-Di-n-Propylamine	13.34	501	133209	48.03	NG	84
17)	Hexachloroethane	13.28	498	77897	67.33	NG	85
18)	*NAPHTHALENE-d8	15.61	612	218067	40.00	NG	47
19)	Nitrobenzene-d5 (SS)	13.54	511	196037	21.72	NG	86
20)	Nitrobenzene	13.60	514	166274	64.69	NG	65
21)	Isophorone	14.36	551	303866	61.96	NG	41
22)	2-Nitrophenol	14.54	560	70125	57.90	NG	83
23)	2,4-Dimethylphenol	14.87	576	102304	61.80	NG	42
24)	Benzoic Acid	15.51	607	59817M	62.47	NG	62
25)	bis(-2-Chloroethoxy)Methane	15.16	590	189578	77.40	NG	86
26)	2,4-Dichlorophenol	15.30	597	107671	62.06	NG	93
27)	1,2,4-Trichlorobenzene	15.53	608	149024	81.33	NG	99
28)	Naphthalene	15.69	616	468723	84.33	NG	37
29)	4-Chloroaniline	15.98	630	171414	152.86	NG	87
30)	Hexachlorobutadiene	16.33	647	98932	83.91	NG	91
31)	4-Chloro-3-Methylphenol	17.59	709	120903	49.43	NG	93
32)	2-Methylnaphthalene	17.84	721	273487	67.50	NG	96
33)	*ACENAPHTHENE-d10	21.07	879	90165	40.00	NG	98
34)	Hexachlorocyclopentadiene	18.58	757	86655	117.98	NG	88
35)	2,4,6-Trichlorophenol	18.84	770	90561	89.84	NG	96
36)	2,4,5-Trichlorophenol	18.92	774	88395	74.83	NG	97
37)	2-Chloronaphthalene	19.31	793	261430	103.16	NG	94
38)	2-Fluorobiphenyl (SS)	19.11	783	376686	25.75	NG	95
39)	2-Nitroaniline	19.78	816	92833	80.50	NG	62
40)	Dimethyl Phthalate	20.58	855	319124	89.53	NG	74
41)	Acenaphthylene	20.58	855	409124	99.36	NG	35
42)	3-Nitroaniline	21.09	880	67379	86.30	NG	28
43)	Acenaphthene	21.20	885	268463	103.78	NG	98
44)	2,4-Dinitrophenol	21.38	894	29772	59.44	NG	40

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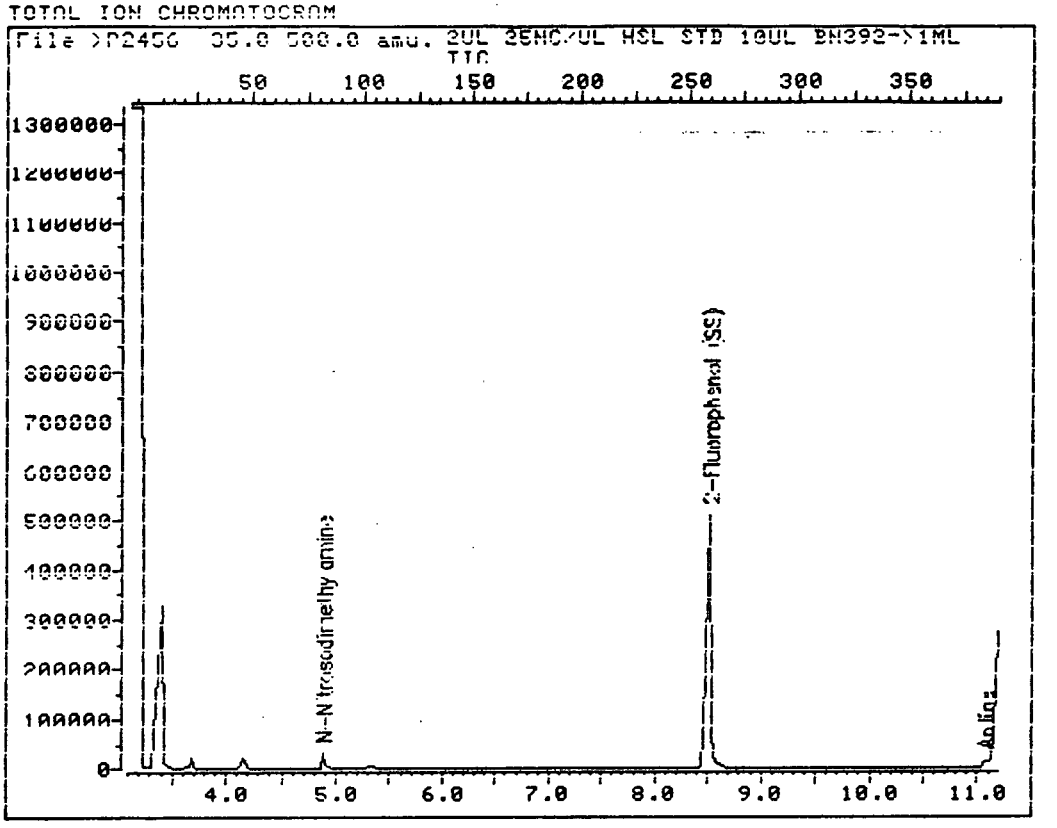
	Compound	R.T.	Scan#	Area	Conc	Units	q
49)	Diethylphthalate	22.81	964	328748	83.06	NG	96
50)	4-Chlorophenyl-phenylether	22.85	966	154943	106.71	NG	87
51)	Fluorene	22.75	961	286578	92.74	NG	84
52)	4-Nitroaniline	23.02	974	53882	74.57	NG	52
53)	2,4,6-Tribromophenol (SS)	23.55	1000	171280	65.82	NG	83
54)	*PHENANTHRENE-d10	25.58	1099	163656	40.00	NG	53
55)	4,6-Dinitro-2-methylphenol	23.16	981	38016	49.85	NG	37
56)	N-Nitrosodiphenylamine	23.29	987	199006	89.00	NG	94
58)	4-Bromophenyl-phenylether	24.33	1038	100299	90.54	NG	93
59)	Hexachlorobenzene	24.70	1056	113532	75.47	NG	82
60)	Pentachlorophenol	25.27	1084	42406	59.69	NG	87
61)	Phenanthrene	25.66	1103	345723	78.34	NG	48
62)	Anthracene	25.80	1110	323664	78.57	NG	45
63)	Di-n-Butylphthalate	27.81	1208	400584	63.14	NG	86
64)	Fluoranthene	29.28	1280	310488	72.65	NG	62
65)	*CHRYSENE-d12	33.68	1495	97530	40.00	NG	48
66)	Terphenyl-d14 (SS)	30.59	1344	224030	26.51	NG	36
68)	Pyrene	29.94	1312	299771	63.35	NG	42
69)	Butylbenzylphthalate	32.31	1428	138905	63.41	NG	95
70)	3,3'-Dichlorobenzidine	33.68	1495	80238	107.47	NG	82
71)	Benzo(a)Anthracene	33.64	1493	218105	69.90	NG	72
72)	bis(2-Ethylhexyl)Phthalate	34.24	1522	175872	48.86	NG	89
73)	Chrysene	33.76	1499	206954	77.46	NG	93
74)	*PERYLENE-d12	37.74	1693	76885	40.00	NG	77
75)	Di-n-Octyl Phthalate	36.04	1610	286773	76.54	NG	100
76)	Benzo(b)Fluoranthene	36.77	1646	203227	74.97	NG	97
77)	Benzo(k)Fluoranthene	36.84	1649	175590	73.61	NG	97
78)	Benzo(a)Pyrene	37.61	1687	177857	75.34	NG	93
79)	Indeno(1,2,3-cd)Pyrene	40.91	1848	224498	85.07	NG	89
80)	Dibenz(a,h)Anthracene	40.99	1852	180437	89.51	NG	81
81)	Benzo(g,h,i)Perylene	41.79	1891	185951	91.85	NG	69

* Compound is ISTD

TOTAL ION CHROMATOGRAM



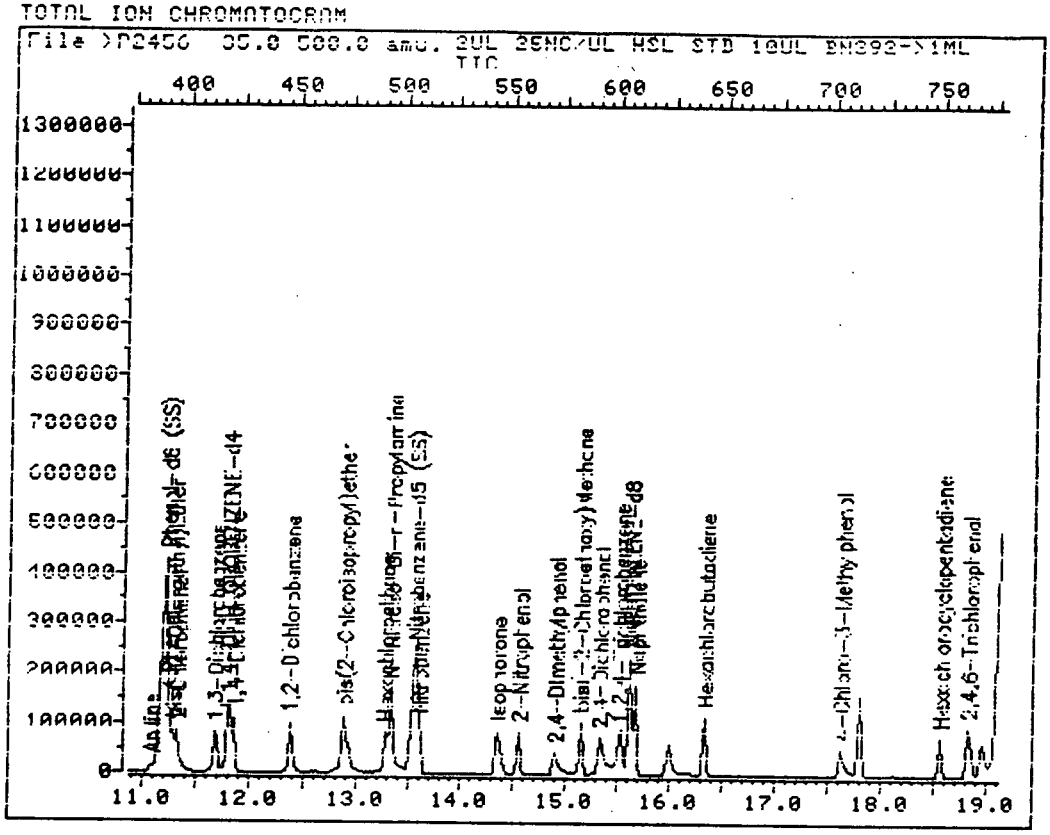
Data File: >P2456::D1
Name: 2UL 25NG/UL HSL STD
Misc: 10UL BN392=>1ML

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860707 21:59

Operator ID: STEVE
Quant Time: 860922 09:32
Injected at: 860922 08:47

TIC page 1 of 5

TOTAL ION CHROMATOGRAM



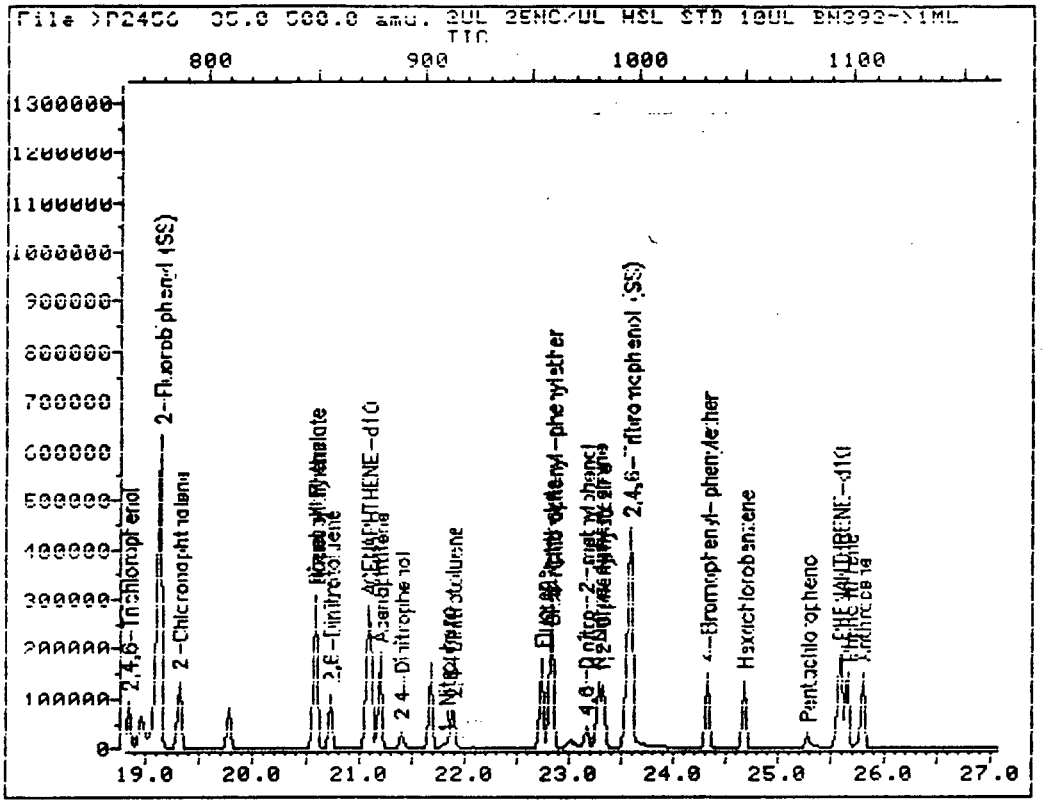
Data File: >P2456::D1
Name: 2UL 25NG/UL HSL STD
Misc: 10UL BN392=>1ML

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860707 21:59

Operator ID: STEVE
Quant Time: 860922 09:32
Injected at: 860922 08:47

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



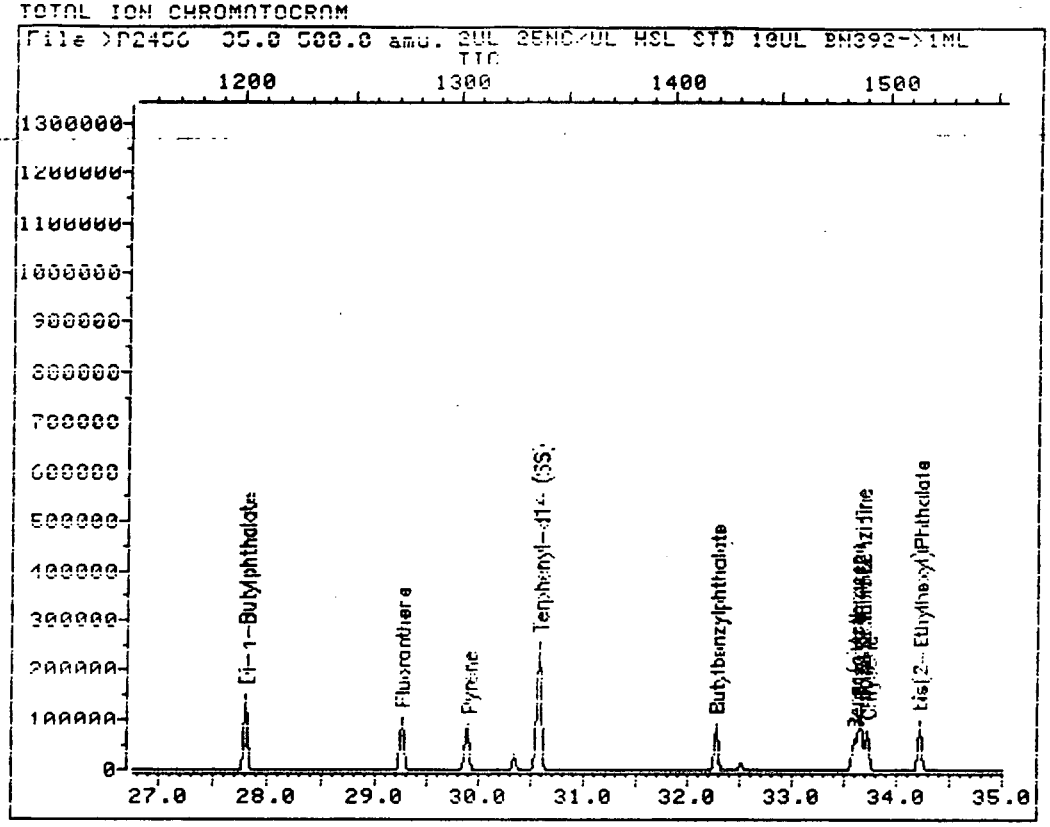
Data File: >P2456::D1
Name: 2UL 25NG/UL HSL STD
Misc: 10UL BN392=>1ML

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860707 21:59

Operator ID: STEVE
Quant Time: 860922 09:32
Injected at: 860922 08:47

TIC page 3 of 5

TOTAL ION CHROMATOGRAM



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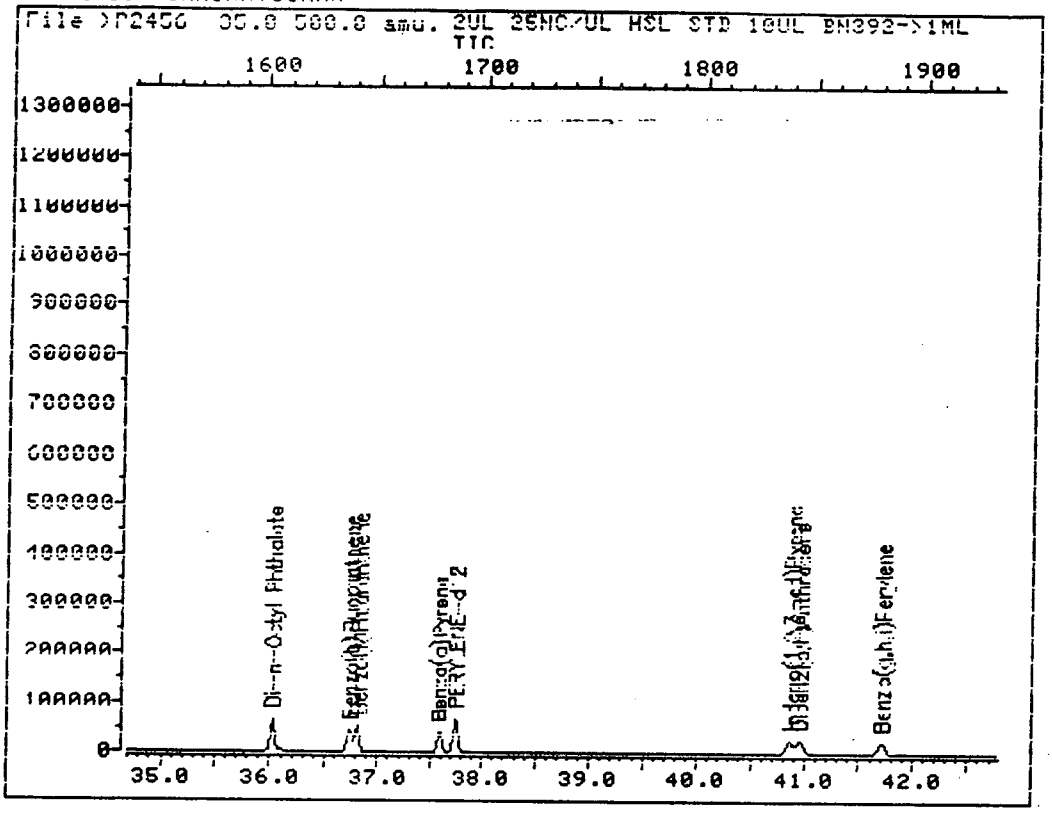
Name: 2UL 25NG/UL HSL STD
Misc: 10UL BN392=>1ML

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860707 21:59

Operator ID: STEVE
Quant Time: 860922 09:32
Injected at: 860922 08:47

TIC page 4 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2456::D1
Name: 2UL 25NG/UL HSL STD
Misc: 10UL BN392=>1ML

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860707 21:59

Operator ID: STEVE
Quant Time: 860922 09:32
Injected at: 860922 08:47

TIC page 5 of 5

Operator ID: STEVE Quant Rev: 4 Quant Time: 860922 09:32
Output File: ^P2456::OP Injected at: 860922 08:47
Data File: >P2456::D1 Dilution Factor: 1.00
Name: 2UL 25NG/UL HSL STD
Misc: 10UL BN392=>1ML

ID File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 860707 21:59

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.80	420	59266	40.00	NG	94
2)	N-Nitrosodimethylamine	4.88	82	31595	41.65	NG	72
3)	2-Fluorophenol (SS)	8.52	260	383522	233.87	NG	76
4)	Phenol	11.24	393	59587M	20.61	NG	95
5)	Aniline	11.08	385	13635	7.62	NG	46
6)	bis(-2-Chloroethyl)Ether	11.28	395	55589	36.43	NG	97
7)	Phenol-d6 (SS)	11.22	392	521970	326.08	NG	76
8)	2-Chlorophenol	11.32	397	44607	34.16	NG	76
9)	1,3-Dichlorobenzene	11.67	414	50816	20.56	NG	93
10)	1,4-Dichlorobenzene	11.86	423	47159	20.72	NG	89
11)	1,2-Dichlorobenzene	12.37	448	48906	23.97	NG	93
12)	bis(2-Chloroisopropyl)ether	12.88	473	59762	26.40	NG	96
13)	N-Nitroso-Di-n-Propylamine	13.33	495	46831	23.38	NG	86
14)	Hexachloroethane	13.27	492	22592	25.22	NG	54
15)	*NAPHTHALENE-d8	15.62	607	237649	40.00	NG	48
16)	Nitrobenzene-d5 (SS)	13.56	506	289300	160.57	NG	91
17)	Nitrobenzene	13.60	508	58362	31.86	NG	76
18)	Isophorone	14.35	545	122776	16.88	NG	41
19)	2-Nitrophenol	14.56	555	27178	16.86	NG	83
20)	2,4-Dimethylphenol	14.91	572	31420	13.34	NG	93
21)	bis(-2-Chloroethoxy)Methane	15.15	584	64307	18.42	NG	88
22)	2,4-Dichlorophenol	15.34	593	41625	19.13	NG	98
23)	1,2,4-Trichlorobenzene	15.52	602	46905	19.57	NG	94
24)	Naphthalene	15.69	610	151443	29.40	NG	38
25)	Hexachlorobutadiene	16.34	642	34330	20.47	NG	90
26)	4-Chloro-3-Methylphenol	17.63	705	48240	17.60	NG	83
27)	*ACENAPHTHENE-d10	21.09	874	127833	40.00	NG	98
28)	Hexachlorocyclopentadiene	18.57	751	22665	28.34	NG	87
29)	2,4,6-Trichlorophenol	18.84	764	28031	17.26	NG	96
30)	2-Chloronaphthalene	19.31	787	102705	24.12	NG	86
31)	2-Fluorobiphenyl (SS)	19.14	779	636601	203.96	NG	94
32)	Dimethyl Phthalate	20.58	849	156360	17.37	NG	76
33)	Acenaphthylene	20.58	849	170081	17.64	NG	33
34)	Acenaphthene	21.19	879	107782	24.43	NG	98
35)	2,4-Dinitrophenol	21.40	889	10827	35.71	NG	34
36)	4-Nitrophenol	21.82	910	8443	7.23	NG	44
37)	2,4-Dinitrotoluene	21.89	913	27363	16.12	NG	88
38)	2,6-Dinitrotoluene	20.72	856	30809	14.94	NG	48
39)	Diethylphthalate	22.83	959	160947	16.95	NG	96
40)	4-Chlorophenyl-phenylether	22.85	960	64872	18.32	NG	86
41)	Fluorene	22.75	955	123920	17.46	NG	85
42)	2,4,6-Tribromophenol (SS)	23.59	996	196421	286.26	NG	84
43)	*PHENANTHRENE-d10	25.59	1094	233671	40.00	NG	52
44)	4,6-Dinitro-2-methylphenol	23.16	975	17305	40.07	NG	38
45)	N-Nitrosodiphenylamine	23.28	981	78573	34.95	NG	96
46)	1,2-Diphenylhydrazine	23.32	983	143256	17.02	NG	70

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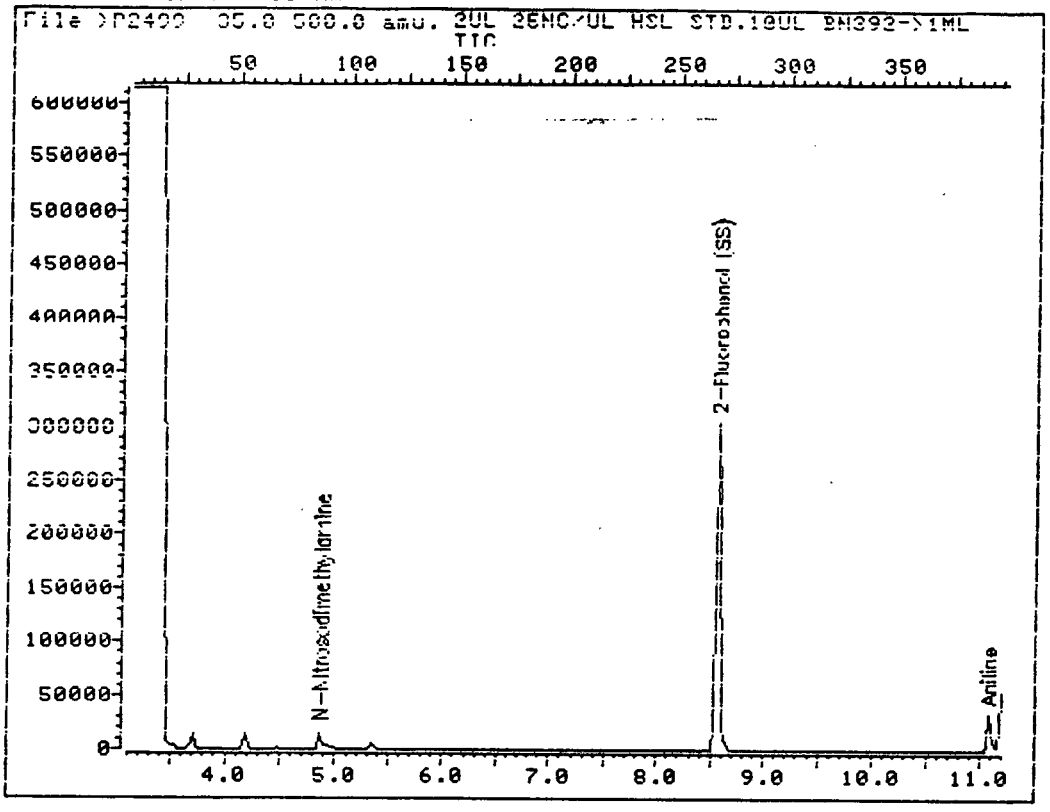
	Compound	R.T.	Scan#	Area	Conc	Units	q
47)	4-Bromophenyl-phenylether	24.32	1032	40963	19.72	NG	97
48)	Hexachlorobenzene	24.69	1050	46626	24.63	NG	82
49)	Pentachlorophenol	25.28	1079	15438	17.53	NG	90
50)	Phenanthrene	25.67	1098	152633	28.05	NG	49
51)	Anthracene	25.80	1104	144727	22.04	NG	45
52)	Di-n-Butylphthalate	27.80	1202	175893	30.15	NG	86
53)	Fluoranthene	29.25	1273	120644	26.02	NG	59
54)	*CHRYSENE-d12	33.67	1489	122935	40.00	NG	47
55)	Terphenyl-d14 (SS)	30.58	1338	266850	58.14	NG	37
57)	Pyrene	29.91	1305	118768	12.52	NG	41
58)	Butylbenzylphthalate	32.28	1421	51221	23.21	NG	95
59)	3,3'-Dichlorobenzidine	33.67	1489	13293	207.06	NG	80
60)	Benzo(a)Anthracene	33.61	1486	76741	19.69	NG	74
61)	bis(2-Ethylhexyl)Phthalate	34.22	1516	64358	21.54	NG	86
62)	Chrysene	33.73	1492	75143	21.97	NG	99
63)	*PERYLENE-d12	37.74	1688	96372	40.00	NG	77
64)	Di-n-Octyl Phthalate	36.02	1604	93400	16.49	NG	100
65)	Benzo(b)Fluoranthene	36.74	1639	69876	16.96	NG	89
66)	Benzo(k)Fluoranthene	36.82	1643	54167	13.15	NG	93
67)	Benzo(a)Pyrene	37.58	1680	55357	18.37	NG	86
68)	Indeno(1,2,3-cd)Pyrene	40.87	1841	69644	52.48	NG	83
69)	Dibenz(a,h)Anthracene	40.95	1845	51457	54.27	NG	80
70)	Benzo(g,h,i)Perylene	41.71	1882	57123	62.13	NG	67

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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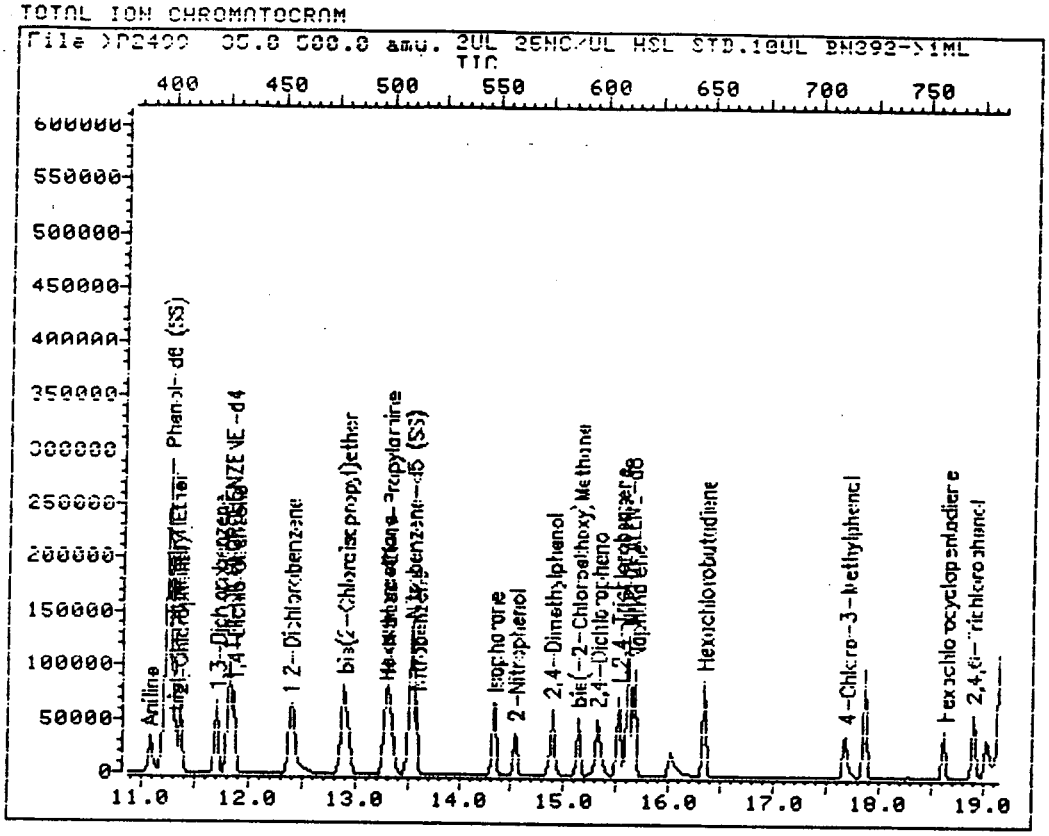
Name: 2UL 25NG/UL HSL STD.
Misc: 10UL BN392=>1ML

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861003 16:52

Operator ID: STEVE
Quant Time: 861006 19:13
Injected at: 861006 17:09

TIC page 1 of 5

TOTAL ION CHROMATOGRAM



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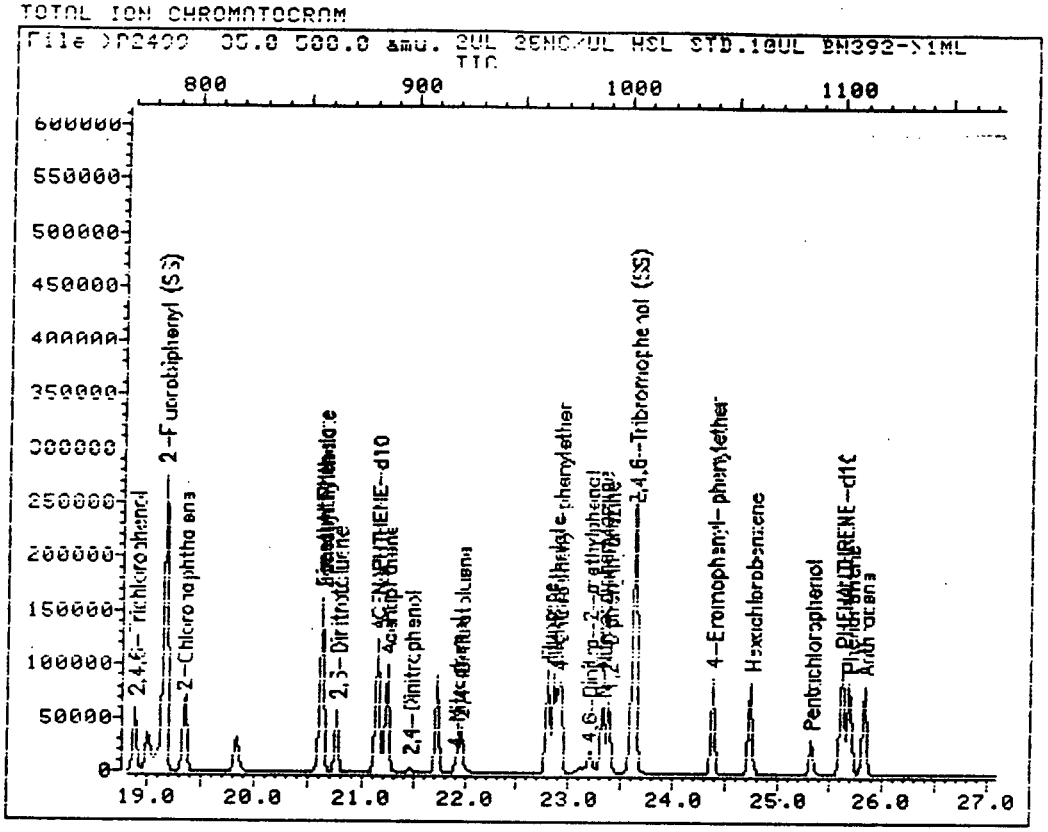
Name: 2UL 25NG/UL HSL STD.
Misc: 10UL BN392=>1ML

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861003 16:52

Operator ID: STEVE
Quant Time: 861006 19:13
Injected at: 861006 17:09

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2499::D1
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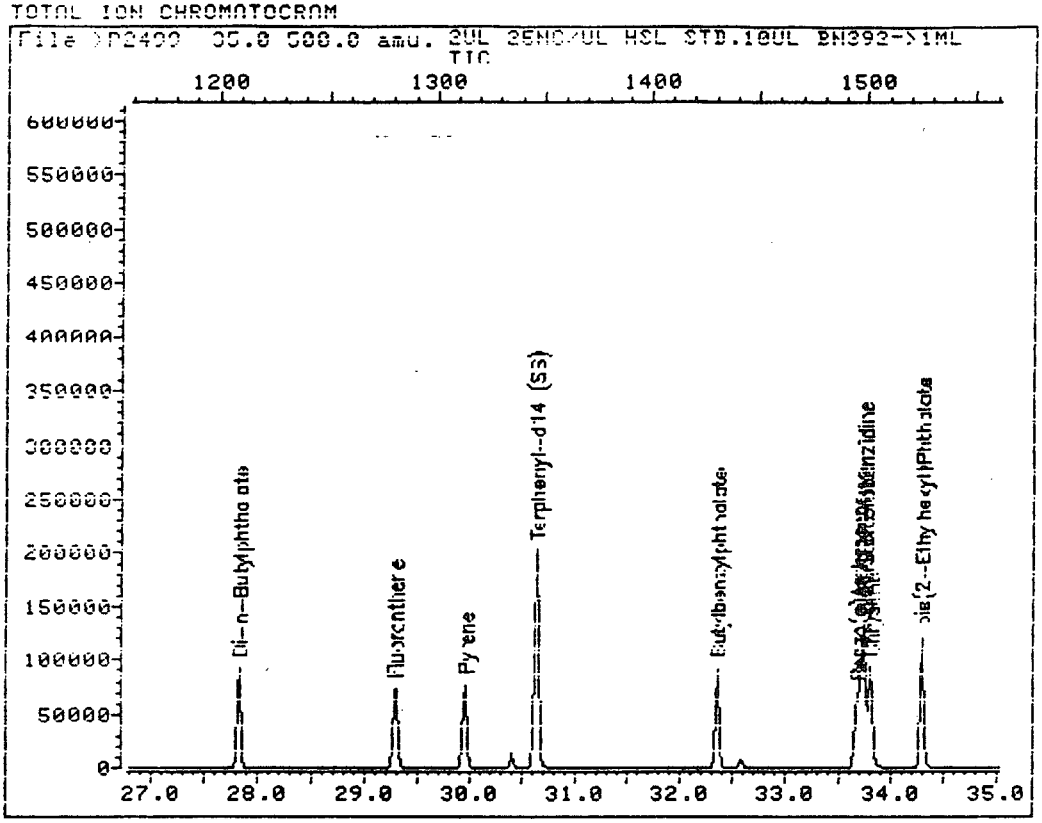
Misc: 10UL BN392=>1ML

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861003 16:52

Operator ID: STEVE
Quant Time: 861006 19:13
Injected at: 861006 17:09

TIC page 3 of 5

TOTAL ION CHROMATOGRAM



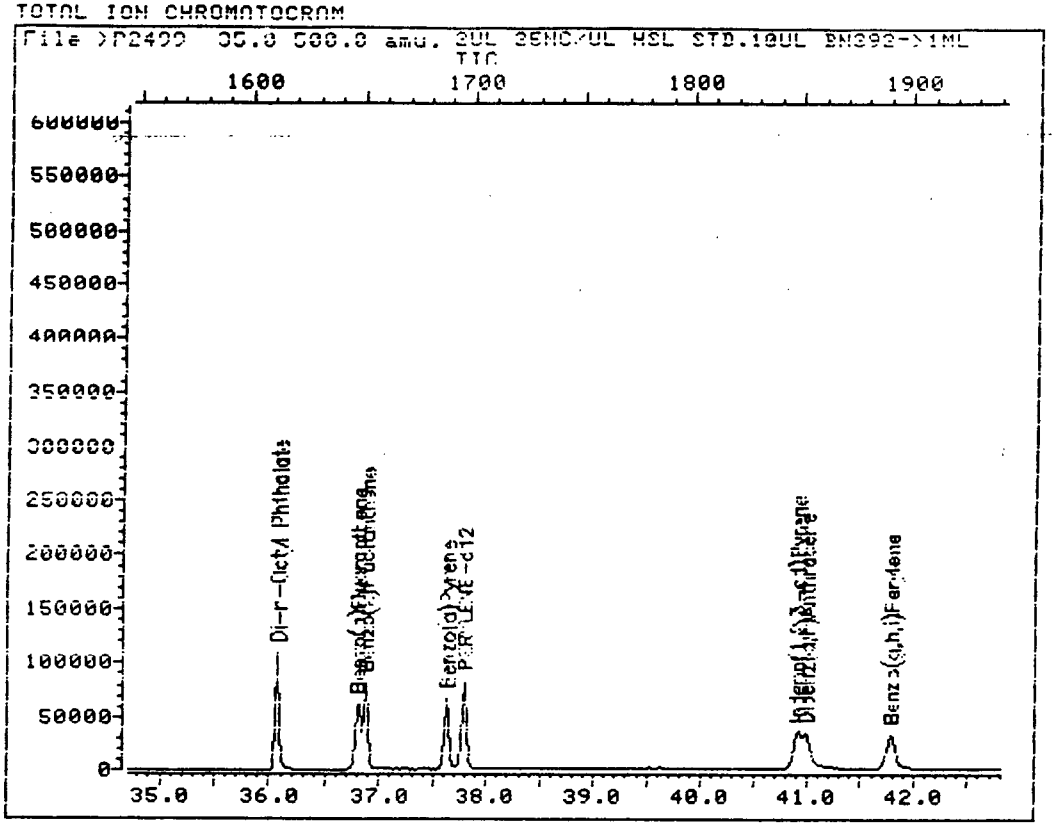
Data File: >P2499::D1
Name: 2UL 25NG/UL HSL STD.
Misc: 10UL BN392=>1ML

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861003 16:52

Operator ID: STEVE
Quant Time: 861006 19:13
Injected at: 861006 17:09

TIC page 4 of 5

TOTAL ION CHROMATOGRAM



Data File: >P2499::D1
Name: 2UL 25NG/UL HSL STD.
Misc: 10UL BN392=>1ML

Id File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861003 16:52

Operator ID: STEVE
Quant Time: 861006 19:13
Injected at: 861006 17:09

TIC page 5 of 5

QUANT REPORT

Operator ID: STEVE
Output File: ^P2499::OP
Data File: >P2499::D1
Name: 2UL 25NG/UL HSL STD.
Misc: 10UL BN392=>1ML

Quant Rev: 4 Quant Time: 861006 19:13
Injected at: 861006 17:09
Dilution Factor: 1.00

ID File: !IDXPP::SC
Title: PRIORITY POLLUTANTS
Last Calibration: 861003 16:52

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.83	428	38839	40.00	NG	95
2)	N-Nitrosodimethylamine	4.86	87	22198	14.95	NG	71
3)	2-Fluorophenol (SS)	8.56	268	224555	103.77	NG	95
4)	Phenol	11.28	401	40980	26.01	NG	90
5)	Aniline	11.08	391	33013	17.19	NG	75
6)	bis(-2-Chloroethyl)Ether	11.32	403	41427	20.22	NG	97
7)	Phenol-d6 (SS)	11.26	400	260365	95.95	NG	78
8)	2-Chlorophenol	11.36	405	32547	17.27	NG	89
9)	1,3-Dichlorobenzene	11.71	422	37036	30.56	NG	89
10)	1,4-Dichlorobenzene	11.87	430	36595	29.56	NG	92
11)	1,2-Dichlorobenzene	12.39	455	36674	30.82	NG	92
12)	bis(2-Chloroisopropyl)ether	12.90	480	41416	17.94	NG	92
13)	N-Nitroso-Di-n-Propylamine	13.31	500	29031	13.15	NG	83
14)	Hexachloroethane	13.29	499	16515	27.90	NG	70
15)	*NAPHTHALENE-d8	15.62	613	129332	40.00	NG	49
16)	Nitrobenzene-d5 (SS)	13.53	511	124375	77.84	NG	89
17)	Nitrobenzene	13.59	514	36108	23.28	NG	74
18)	Isophorone	14.33	550	71165	47.13	NG	44
19)	2-Nitrophenol	14.53	560	14258M	26.09	NG	83
20)	2,4-Dimethylphenol	14.88	577	22952	24.23	NG	93
21)	bis(-2-Chloroethoxy)Methane	15.13	589	38450	22.74	NG	87
22)	2,4-Dichlorophenol	15.31	598	22096M	29.49	NG	94
23)	1,2,4-Trichlorobenzene	15.52	608	35062	37.65	NG	97
24)	Naphthalene	15.68	616	101034	29.08	NG	39
25)	Hexachlorobutadiene	16.33	648	19318M	27.45	NG	90
26)	4-Chloro-3-Methylphenol	17.68	714	25502	30.36	NG	85
27)	*ACENAPHTHENE-d10	21.14	883	57763	40.00	NG	88
28)	Hexachlorocyclopentadiene	18.62	760	14515	28.72	NG	88
29)	2,4,6-Trichlorophenol	18.89	773	19354	29.84	NG	96
30)	2-Chloronaphthalene	19.34	795	55274	30.65	NG	90
31)	2-Fluorobiphenyl (SS)	19.16	786	253001	103.76	NG	98
32)	Dimethyl Phthalate	20.63	858	75691	28.08	NG	75
33)	Acenaphthylene	20.63	858	92443	30.57	NG	35
34)	Acenaphthene	21.24	888	56498	29.75	NG	96
35)	2,4-Dinitrophenol	21.47	899	1973	8.27	NG	55
36)	4-Nitrophenol	21.92	921	5482	17.15	NG	42
37)	2,4-Dinitrotoluene	21.96	923	13113	27.84	NG	68
38)	2,6-Dinitrotoluene	20.77	865	15061	25.07	NG	44
39)	Diethylphthalate	22.86	967	79058	29.66	NG	97
40)	4-Chlorophenyl-phenylether	22.90	969	35958	29.79	NG	84
41)	Fluorene	22.80	964	67669	32.34	NG	83
42)	2,4,6-Tribromophenol (SS)	23.62	1004	106370	211.61	NG	85
43)	*PHENANTHRENE-d10	25.62	1102	113668	40.00	NG	49

608

	Compound	R.T.	Scan#	Area	Conc	Units	q
47)	4-Bromophenyl-phenylether	24.37	1041	26991	30.83	NG	91
48)	Hexachlorobenzene	24.74	1059	31109	32.66	NG	85
49)	Pentachlorophenol	25.32	1087	10315M	34.70	NG	95
50)	Phenanthrene	25.68	1105	86628	31.71	NG	50
51)	Anthracene	25.83	1112	87810	29.26	NG	45
52)	Di-n-Butylphthalate	27.83	1210	126006	33.39	NG	87
53)	Fluoranthene	29.28	1281	48051M	17.08	NG	53
54)	*CHRYSENE-d12	33.74	1499	122977	40.00	NG	47
55)	Terphenyl-d14 (SS)	30.63	1347	210059	101.13	NG	36
57)	Pyrene	29.96	1314	104479	27.15	NG	38
58)	Butylbenzylphthalate	32.35	1431	56557	26.23	NG	90
59)	3,3'-Dichlorobenzidine	33.74	1499	32001	27.90	NG	92
60)	Benzo(a)Anthracene	33.68	1496	96217	28.26	NG	74
61)	bis(2-Ethylhexyl)Phthalate	34.29	1526	82332	28.68	NG	86
62)	Chrysene	33.80	1502	97979	31.68	NG	97
63)	*PERYLENE-d12	37.79	1697	112630	40.00	NG	77
64)	Di-n-Octyl Phthalate	36.07	1613	128659	27.41	NG	100
65)	Benzo(b)Fluoranthene	36.79	1648	104002	31.08	NG	93
66)	Benzo(k)Fluoranthene	36.87	1652	97174	30.04	NG	96
67)	Benzo(a)Pyrene	37.63	1689	89876	29.16	NG	88
68)	Indeno(1,2,3-cd)Pyrene	40.90	1849	107627	28.82	NG	76
69)	Dibenz(a,h)Anthracene	40.98	1853	78765	28.30	NG	79
70)	Benzo(g,h,i)Perylene	41.78	1892	88003	28.47	NG	62

* Compound is ISTD

GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)

Case No. _____ Laboratory H2M Lab Contract No. _____

Instrument Id OWA #1 Date 8/28/86 Time 9:31

Lab ID PU6277 Data Release Authorized By: J M Sla

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	22.9
75	30.0 - 60.0% of the base peak	43.5
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	8.8
173	Less than 1.0% of the base peak	0
174	Greater than 50.0% of the base peak	74.8
175	5.0 - 9.0% of mass 174	5.1(6.8)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	72.6(97.1)[1]
177	5.0 - 9.0% of mass 176	4.7(6.5)[2]

[1] Value in parenthesis is % mass 174.
[2] Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPPLES, BLANKS AND STANDARDS.

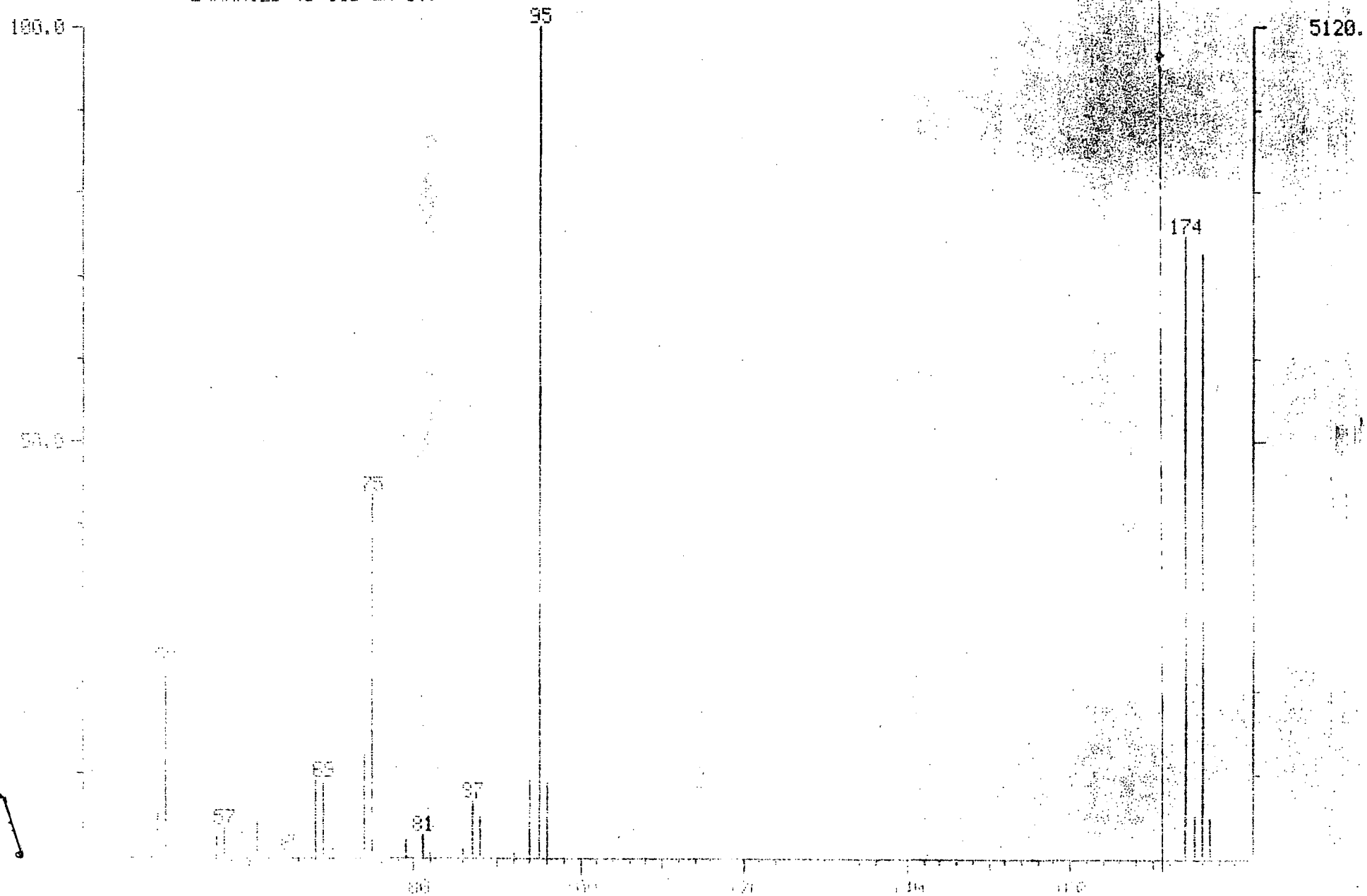
SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
20 ug/l DCB	PU6278	8/28/86	9:49
50 ug/l DCB	PU6279	"	11:01
150 ug/l DCB	PU6280	"	12:04

610

MASS SPECTRUM
08/28/86 9:31:00 + 9:35
SAMPLE: 50NG BFB
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6277 #192
CALI: PU6277 #2

BASE M/Z: 95
RIC: 21120.



G11

MASS LIST DATA: PU6277 # 192 BASE M/Z: 95
08/28/82 9:31:00 + 9:36 CALI: PU6277 # 2 RIC: 21120.
SAMPLE: 50NG BFB
COND:
ENHANCED (S 15B 2N 0T)

47 0.00 0.00 0. MINIMA MIN INTEN: 0.
177 # 0 MAXIMA

Mass	% RA	% RIC	Inten.
47.00?	0.55	0.13	28.
49.00?	5.08	1.23	260.
50.00?	22.93	5.56	1174.
56.00?	2.32	0.56	119.
57.00?	3.48	0.84	178.
59.00?	3.18	0.77	163.
61.00?	4.57	1.11	234.
65.00?	0.55	0.13	28.
68.00?	9.06	2.20	464.
69.00	9.20	2.23	471
70.00	1.17	0.28	60.
74.00	12.40	3.01	635
75.00	43.52	10.55	2228
79.00	2.07	0.50	106.
81.00	2.79	0.68	143.
82.00	0.47	0.11	24
83.00	0.33	0.08	17.
86.00	0.98	0.24	50.
87.00	6.76	1.64	346.
88.00	4.92	1.19	252.
92.00	0.61	0.15	31.
94.00	9.10	2.21	466.
95.00	100.00	24.24	5120.
96.00	8.75	2.12	448.
174.00	74.77	18.12	3828
175.00	5.08	1.23	260
176.00	72.58	17.59	3716.
177.00	4.71	1.14	241.

GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)

Case No. _____ Laboratory H2M Lab Contract No. _____

Instrument Id OWA #1 Date 8/27/86 Time 9:51

Lab ID PU6261 Data Release Authorized By: [signature]

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	28.6
75	30.0 - 60.0% of the base peak	54.3
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	8.2
173	Less than 1.0% of the base peak	0
174	Greater than 50.0% of the base peak	89.1
175	5.0 - 9.0% of mass 174	6.7(7.5)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	85.3 (95.7)[1]
177	5.0 - 9.0% of mass 176	5.8 (6.8)[2]

[1] Value in parenthesis is % mass 174.
[2] Value in parenthesis is % mass 176.

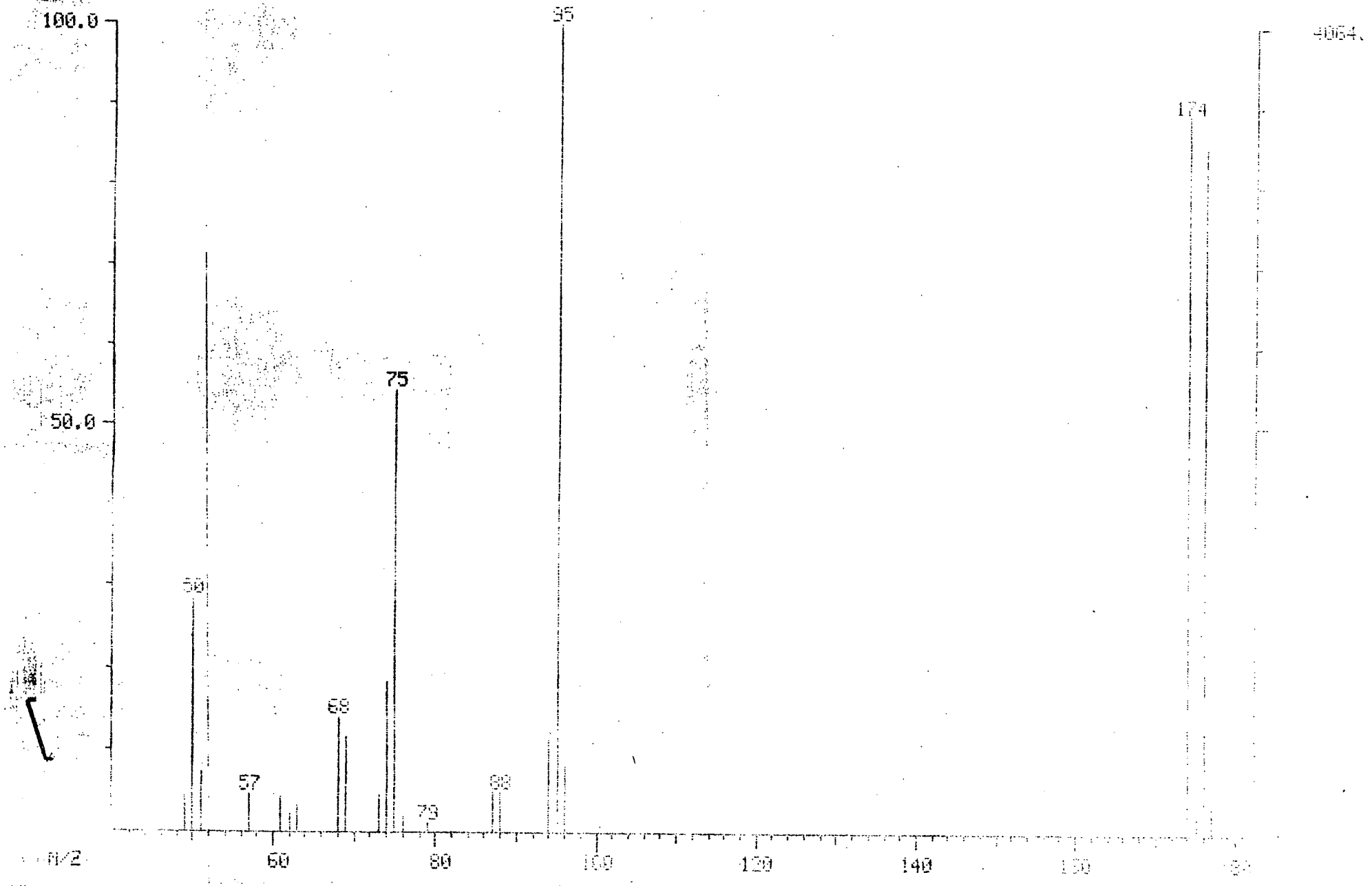
THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Inst. Blank	PU6262	8/27/86	10:09
50 ug/l HSL	PU6263	"	11:32
20 ug/l HSL	PU6264	"	12:42
100 ug/l HSL	PU6265	"	13:40
50 ug/l HSL	PU6266	"	15:04
20 ug/l HSL	PU5267	"	16:04
100 ug/l HSL	PU6268	"	17:12
150 ug/l HSL	PU6269	"	18:09
200 ug/l HSL	PU6270	"	19:47

MASS SPECTRUM
08/27/86 9:51:00 + 9:36
SAMPLE: 50NG BFB
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU6261 #192
CALI: PU6261 #2

BASE M/Z: 95
RIC: 19392.



617

MASS [illegible]
08/27/05 9:51:00 + 9.36
SAMPLE: 50NC 6FB [illegible]
COMPS.
[illegible] (S 15B 2N 0T)

DATA: PU6261 # 192
CALI: PU6261 # 2

BASE M/Z: 95
RIC: 19392.

49 0.00 0.00 0. MINIMA MIN INTEN: 0.
177 # 0 MAXIMA

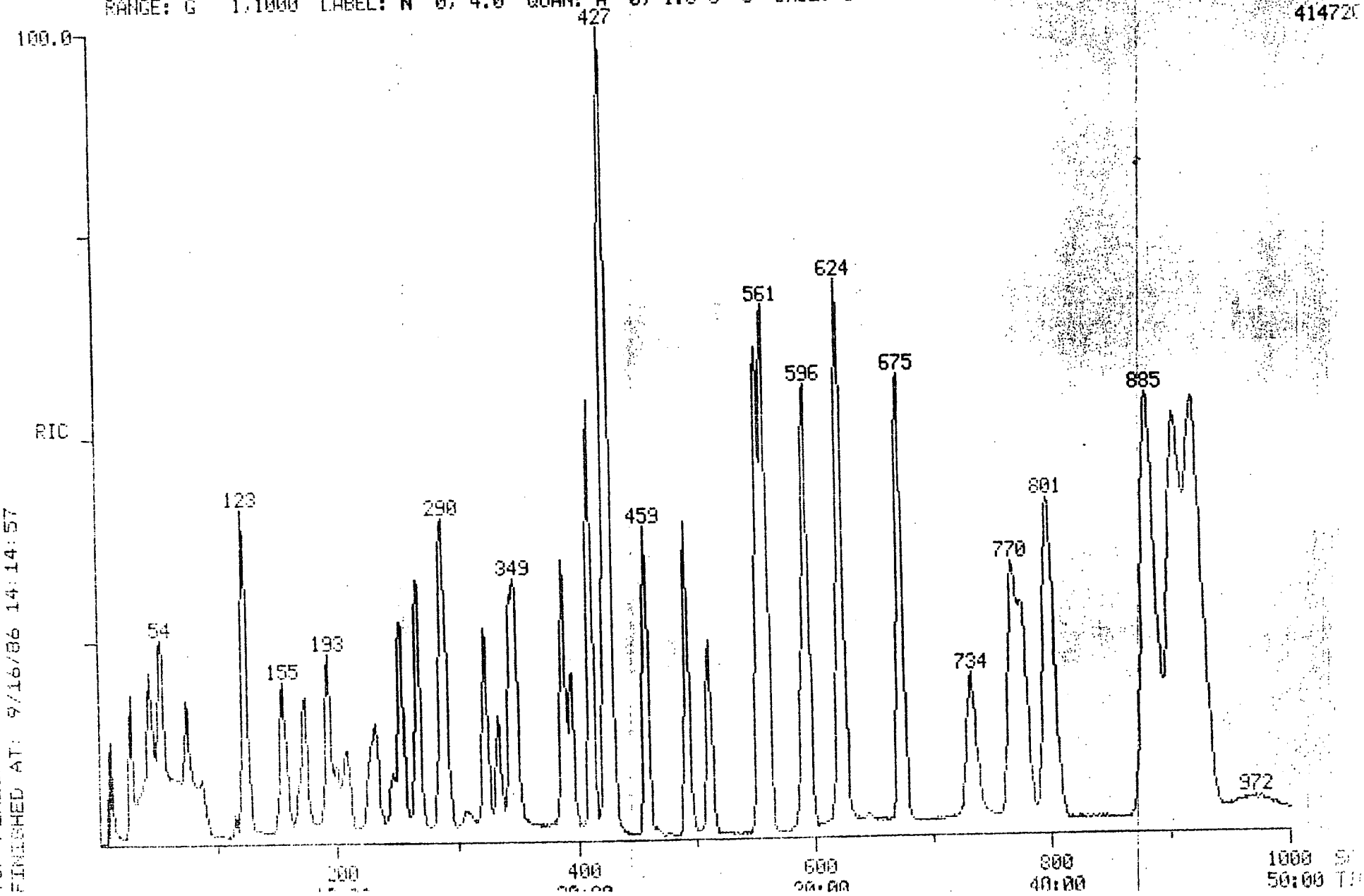
MASS	% RA	% RIC	INTEN.
49.00?	4.33	0.91	176.
50.00?	28.59	5.99	1162.
51.00?	7.23	1.52	294.
57.00?	4.70	0.98	191.
61.00?	4.40	0.92	179.
62.00?	2.12	0.44	86.
63.00?	3.49	0.73	142.
68.00	14.05	2.94	571.
69.00	11.52	2.41	468.
73.00	4.70	0.98	191.
74.00	18.28	3.83	743.
75.00	54.33	11.39	2208.
76.00	1.94	0.41	79.
79.00	1.18	0.25	48
87.00	4.97	1.04	201
88.00	4.97	1.04	202.
94.00	11.37	2.38	461.
95.00	100.00	20.96	4064.
96.00	8.17	1.71	332.
174.00	89.07	18.67	3620.
175.00	6.67	1.40	271.
176.00	85.33	17.88	3468.
177.00	5.76	1.21	234.

RIC
08/27/86 13:48:00
SAMPLE: 500NG HSL CONC
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6265 #1
CALI: PU6265 #2

SCANS 1 TO 1000

414720



TCA FINISHED, 46 FOUND
FINISHED AT: 9/16/86 14:14:57

919

QUANTITATION REPORT FILE: PU6265

DATA: PU6265.TI
08/27/86 13:40:00
SAMPLE: 500NG HSL CONC
CONDS. :
SUBMITTED BY: ANALYST: IO

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

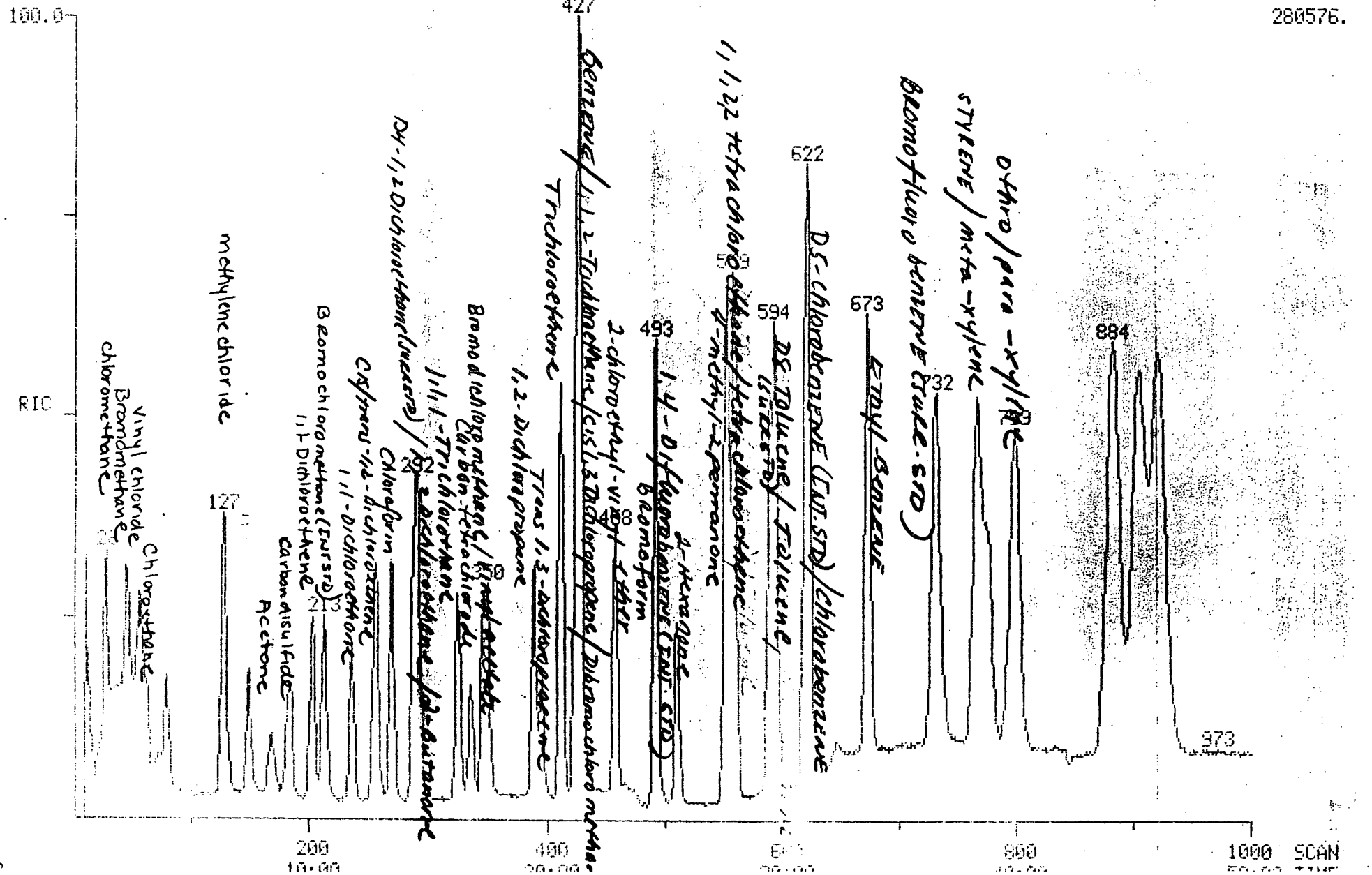
No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE (C)
7	ACETONE
8	CARBON DISULPHIDE
9	1,1-DICHLOROETHENE (B)
10	1,2-DICHLOROETHANE D4 (SURR. STD)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRA CHLORIDE
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS-1,3-DICHLOROPROPENE(AA)
27	D8-TOLUENE(SURR. STD)
28	TRICHLOROETHENE(K)
29	DIBROMOCHLOROMETHANE(O)
30	1,1,2-TRICHLOROETANE(M)
31	BENZENE(BEN)
32	CIS-1,3-DICHLOROPROPENE(Z)
33	2-CHLOROETHYLVINYLETHER(NN)
34	BROMOFORM(P)
35	CHLOROBENZENE-D5 (INT. STD)
36	2-HEXANONE(MBK)
37	4-METHYL-2-PENTANONE(MIBK)
38	TETRACHLOROETHENE(N)
39	ETHANE, 1,1,2,2-TETRACHLORO-
40	TOLUENE(TOL)
41	CHLOROBENZENE(Q)
42	ETHYLBENZENE(EB)
43	BROMOFLUORBENZENE(SURR. STD)
44	STYRENE
45	META-XYLENE
46	ORTHO/PARA-XYLENE
47	META-DICHLOROBENZENE(MDCB)
48	ORTHO-DICHLOROBENZENE(ODCB)
49	PARA-DICHLOROBENZENE(PDCB)

3	94	44	2:12	1	0.211	A	BB	56273.	424.477	NG	1.47
4	62	55	2:45	1	0.263	A	BB	88274.	558.652	NG	1.94
5	64	75	3:45	1	0.359	A	BB	77648.	424.432	NG	1.47
6	84	123	6:09	1	0.589	A	BB	157388.	649.022	NG	2.25
7	43	154	7:42	1	0.737	A	VB	227518.	576.873	NG	2.00
8	76	158	7:54	1	0.756	A	BB	151142.	588.001	NG	2.04
9	96	193	9:39	1	0.923	A	BB	73136.	553.643	NG	1.92
10	65	287	14:21	1	1.373	A	BB	94458.	390.028	NG	1.35
11	63	233	11:39	1	1.115	A	BV	226173.	784.142	NG	2.72
12	96	254	12:42	1	1.215	A	VB	78494.	469.691	NG	1.63
13	83	268	13:24	1	1.282	A	BB	246411.	700.689	NG	2.43
14	62	289	14:27	1	1.383	A	BB	253720.	823.456	NG	2.85
15	101	174	8:42	1	0.833	A	BB	149327.	567.329	NG	1.97
16	85	53	2:39	1	0.254	A	BB	88293.	1270.260	NG	4.40
17	56	135	6:45	1	0.646	A	BB	4071.	323.677	NG	1.12
18	NOT	FOUND									
19	114	493	24:39	19	1.000	A	BB	149406.	250.000	NG	0.87
20	43	292	14:36	19	0.592	A	BB	232400.	514.962	NG	1.78
21	97	324	16:12	19	0.657	A	BB	146805.	695.941	NG	2.41
22	117	335	16:45	19	0.680	A	VB	82006.	420.920	NG	1.46
23	NOT	FOUND									
24	83	349	17:27	19	0.708	A	BB	174101.	689.351	NG	2.39
25	63	389	19:27	19	0.789	A	BB	207517.	733.550	NG	2.54
26	75	396	19:48	19	0.803	A	BB	163656.	873.561	NG	3.03
27	100	591	29:33	35	0.952	A	BB	90396.	273.292	NG	0.95
28	130	412	20:36	19	0.836	A	BV	167658.	577.554	NG	2.00
29	129	424	21:12	19	0.860	A	BB	121502.	638.586	NG	2.21
30	97	428	21:24	19	0.868	A	BB	152688.	573.574	NG	1.99
31	78	426	21:18	19	0.864	A	BB	422636.	596.639	NG	2.07
32	75	430	21:30	19	0.872	A	BB	180222.	967.285	NG	3.35
33	NOT	FOUND									
34	173	493	24:39	19	1.000	A	BB	95928.	727.104	NG	2.52
35	117	621	31:03	35	1.000	A	BB	112010.	250.000	NG	0.87
36	43	512	25:36	35	0.824	A	BB	308097.	842.196	NG	2.92
37	43	554	27:42	35	0.892	A	BB	276446.	672.684	NG	2.33
38	164	561	28:03	35	0.903	A	BB	167293.	667.453	NG	2.31
39	83	555	27:45	35	0.894	A	BB	253333.	631.427	NG	2.19
40	92	596	29:48	35	0.960	A	BB	262512.	634.807	NG	2.20
41	112	624	31:12	35	1.005	A	BB	361332.	631.187	NG	2.19
42	106	674	33:42	35	1.085	A	BB	167189.	649.949	NG	2.25
43	95	733	36:39	35	1.180	A	BB	96314.	254.413	NG	0.88
44	104	769	38:27	35	1.238	A	BB	279894.	449.704	NG	1.56
45	106	778	38:54	35	1.253	A	BB	137595.	619.229	NG	2.15
46	106	802	40:06	35	1.291	A	BB	254111.	637.879	NG	2.21
47	146	885	44:15	35	1.425	A	BB	466432.	1206.760	NG	4.18
48	146	908	45:24	35	1.462	A	BV	441072.	1257.140	NG	4.36
49	146	923	46:09	35	1.486	A	VB	557792.	1257.020	NG	4.36

RIC
03/03/86 11:13:00
SAMPLE: STANDARD
CONDS.:
RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6303 #1
CALI: PU6303 #2

SCANS 1 TO 1000

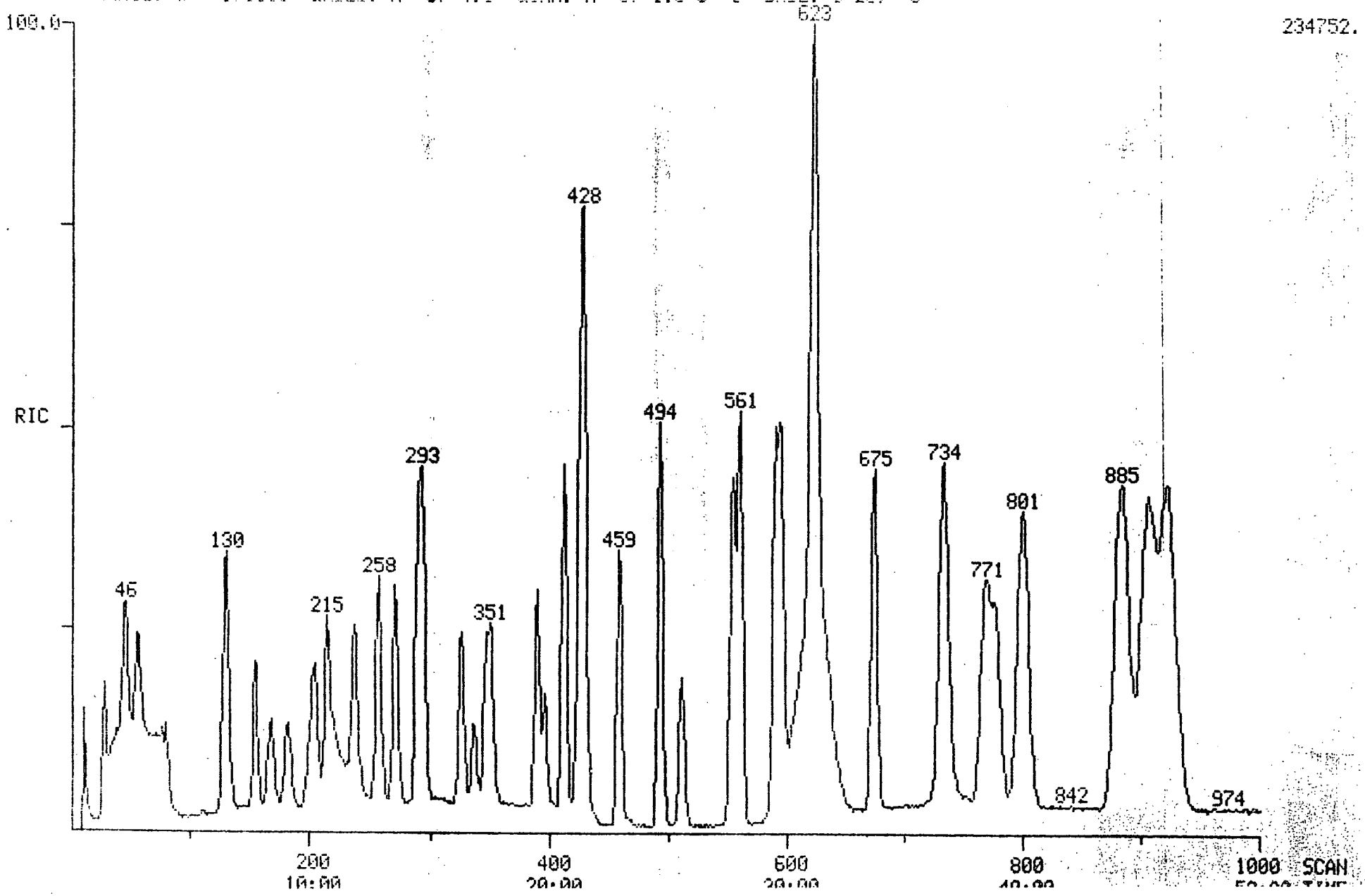


619

RIC
08/27/86 15:04:00
SAMPLE: CONC. 50UL/L
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6266 #1
CALI: PU6266 #2

SCANS 1 TO 1000



621

QUANTITATION REPORT FILE: PU6266

DATA: PU6266.TI
08/27/86 15:04:00
SAMPLE: CONC 50UL/L
CONDS.:
SUBMITTED BY: ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM AVERAGE OF WHOLE RL

No	NAME
1	BROMOCHLOROMETHANE(INT. STD)
2	1,2-DICHLOROETHANE-D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE(B)
11	1,1-DICHLOROETANE(E)
12	TRANS-1,2-DICHLOROETHENE(D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACYRONITRILE
19	1,4-DIFLUOROBENZENE (INT. STD)
20	2-BUTANONE(MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE (J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS-1,3-DICHLOROPROPANE(AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHLOROETHANE(M)
30	BENZENE (BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE D5
35	2-HEXANONE (MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE (N)
38	1,1,2,2-TETRACHLOROETHANE (CC)
39	TOLUENE
40	CHLOROBENZENE (Q)
41	[illegible] (EP)
42	STYRENE
43	[illegible]
44	[illegible]
45	[illegible] (M-DCB)
46	[illegible] (C-DCB)
47	[illegible] (P-DCB)
48	[illegible]
49	BROMOFLUOROBENZENE (SURR. STD.)

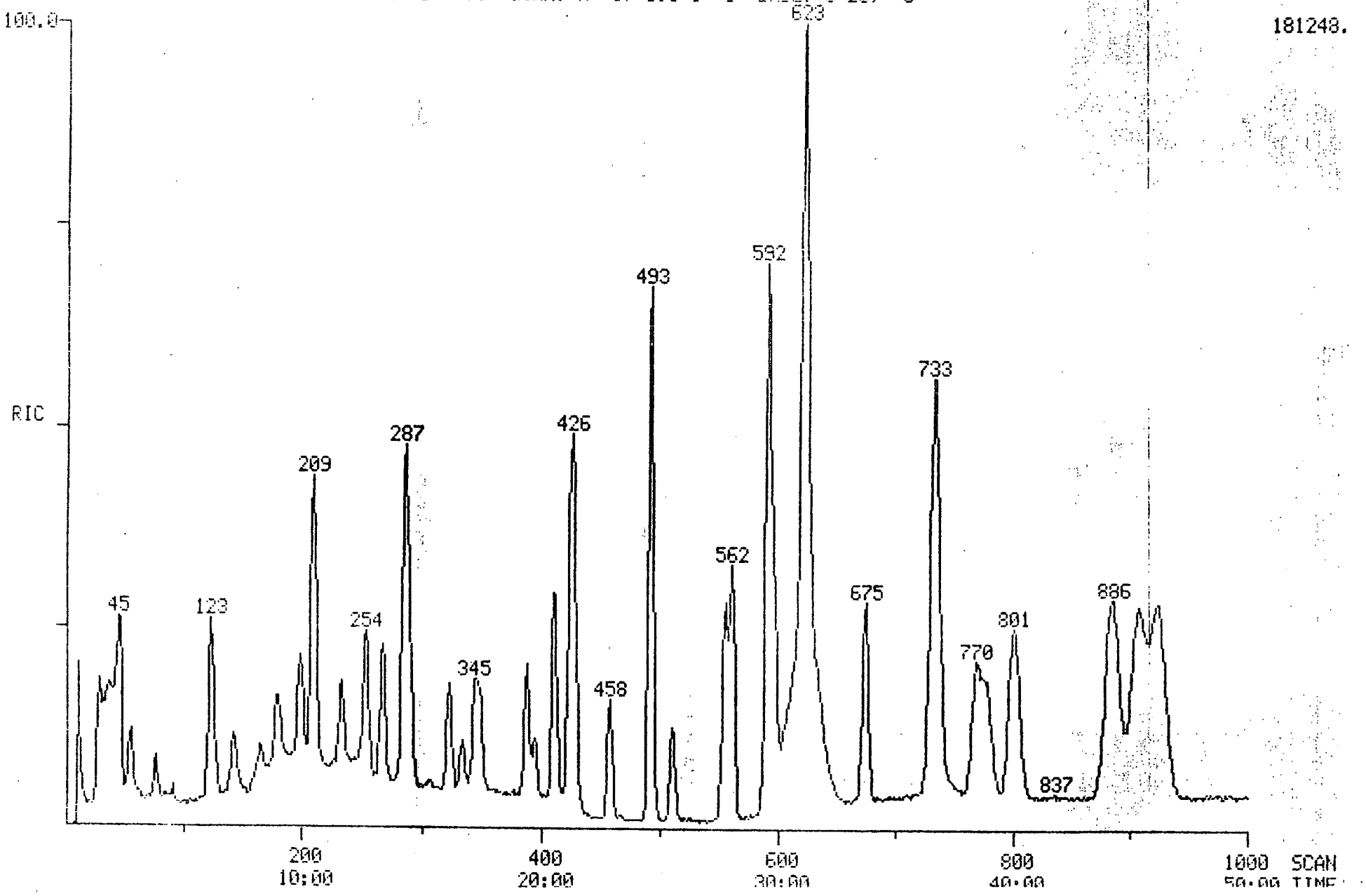
621

3	[illegible]	[illegible]	1:24	1	0.131	A	[illegible]	77806.	250.000	NG	1.65
4	94	46	2:18	1	0.215	A	BB	38306.	250.000	NG	1.65
5	62	57	2:51	1	0.266	A	BB	40539.	250.000	NG	1.65
6	64	80	4:00	1	0.374	A	BB	42536.	250.000	NG	1.65
7	84	130	6:30	1	0.607	A	BB	81068.	250.000	NG	1.65
8	43	155	7:45	1	0.724	A	VB	151781.	250.000	NG	1.65
9	76	167	8:21	1	0.780	A	BB	91716.	250.000	NG	1.65
10	96	203	10:09	1	0.949	A	BB	33409.	250.000	NG	1.65
11	63	228	11:54	1	1.112	A	BB	113754.	250.000	NG	1.65
12	96	258	12:54	1	1.206	A	BB	48877.	250.000	NG	1.65
13	83	272	13:36	1	1.271	A	BB	114699.	250.000	NG	1.65
14	62	293	14:39	1	1.369	A	BB	119133.	250.000	NG	1.65
15	101	182	9:06	1	0.850	A	BB	70832.	250.000	NG	1.65
16	85	55	2:45	1	0.257	A	BB	47355.	250.000	NG	1.65
17	56	145	7:15	1	0.678	A	BB	1749.	2500.000	NG	16.48
18	NOT FOUND										
19	114	304	24:42	19	1.000	A	BB	184309.	250.000	NG	1.65
20	43	285	14:45	19	0.597	A	BB	200502.	250.000	NG	1.65
21	97	327	16:21	19	0.662	A	BB	69925.	250.000	NG	1.65
22	117	337	16:51	19	0.682	A	VB	34397.	250.000	NG	1.65
23	43	347	17:21	19	0.702	A	BB	196605.	250.000	NG	1.65
24	83	352	17:36	19	0.713	A	BB	73414.	250.000	NG	1.65
25	63	390	19:30	19	0.789	A	BB	93889.	250.000	NG	1.65
26	75	397	19:51	19	0.804	A	BB	67147.	250.000	NG	1.65
27	130	413	20:39	19	0.836	A	BB	79018.	250.000	NG	1.65
28	125	425	21:15	19	0.860	A	BB	46498.	250.000	NG	1.65
29	97	429	21:27	19	0.868	A	BB	66064.	250.000	NG	1.65
30	78	426	21:18	19	0.862	A	BB	195620.	250.000	NG	1.65
31	75	430	21:30	19	0.870	A	BB	66352.	250.000	NG	1.65
32	63	459	22:57	19	0.929	A	BB	85156.	250.000	NG	1.65
33	173	493	24:39	19	0.998	A	BB	29185.	250.000	NG	1.65
34	117	621	31:03	34	1.000	A	BB	146197.	250.000	NG	1.65
35	43	512	25:36	34	0.824	A	BB	142465.	250.000	NG	1.65
36	43	554	27:42	34	0.892	A	BV	152552.	250.000	NG	1.65
37	164	561	28:03	34	0.903	A	BB	76938.	250.000	NG	1.65
38	83	556	27:48	34	0.895	A	BB	87798.	250.000	NG	1.65
39	92	596	29:48	34	0.960	A	BB	119078.	250.000	NG	1.65
40	112	624	31:12	34	1.005	A	BB	172868.	250.000	NG	1.65
41	106	675	33:45	34	1.087	A	BB	74900.	250.000	NG	1.65
42	104	769	38:27	34	1.238	A	BB	149385.	354.025	NG	2.33
43	106	778	38:54	34	1.253	A	BB	74981.	138.499	NG	0.91
44	106	801	40:03	34	1.290	A	BB	135345.	500.000	NG	3.30
45	146	885	44:15	34	1.425	A	BB	209150.	500.000	NG	3.30
46	146	907	45:21	34	1.461	A	BV	193456.	500.000	NG	3.30
47	146	923	46:06	34	1.485	A	VB	338272.	615.830	NG	4.06
48	180	941	47:03	34	0.952	A	BB	113046.	250.000	NG	1.65
49	93	930	46:39	34	1.160	A	BB	124921.	250.000	NG	1.65

RIC
08/27/85 16:04:00
SAMPLE: 100NG HSL
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6267 #1
CALI: PU6267 #2

SCANS 1 TO 1000



623

QUANTITATION REPORT FILE: PU6267

DATA: PU6267.TI
08/27/86 16:04:00
SAMPLE: 100NG HSL
CONDS.:
SUBMITTED BY: ANALYST: IO

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	NAME
1	BROMOCHLOROMETHANE(INT. STD)
2	1,2-DICHLOROETHANE-D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE(B)
11	1,1-DICHLOROETANE(E)
12	TRANS-1,2-DICHLOROETHENE(D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACYRONITRILE
19	1,4-DIFLUOROBENZENE (INT. STD)
20	2-BUTANONE(MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE (J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS-1,3-DICHLOROPROPANE(AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHLOROETHANE(M)
30	BENZENE (BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE (T)
35	2-HEXANONE (MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE (N)
38	1,1,2,2-TETRACHLOROETHANE (CC)
39	TOLUENE
40	CHLOROBENZENE (C)
41	ETHYL BENZENE (EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA XYLENE
45	M-DICHLOROBENZENE (M-DCB)
46	O-DICHLOROBENZENE (O-DCB)
47	P-DICHLOROBENZENE (P-DCB)
48	TOLUENE-D8 (SURR. STD.)
49	BROMOFLUOROBENZENE (SURR. STD.)

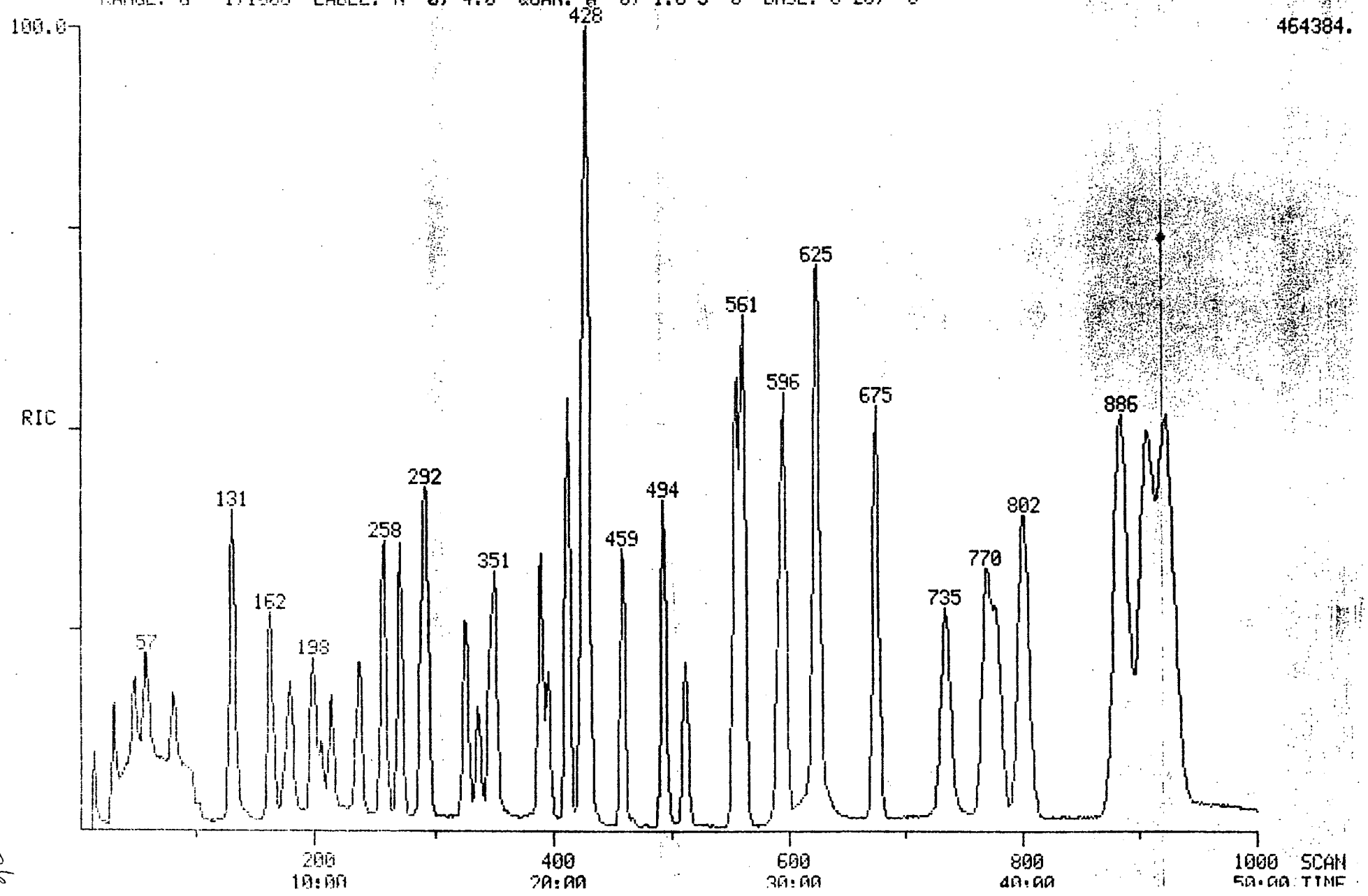
624

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	A	BB	122684.	210. 613	NG	3. 51
3	50	28	1: 24	1	0. 134	A	BV	34093.	88. 466	NG	1. 35
4	94	45	2: 15	1	0. 215	A	BB	14375.	75. 765	NG	1. 15
5	62	56	2: 48	1	0. 268	A	BB	15504.	77. 214	NG	1. 18
6	64	76	3: 48	1	0. 364	A	BB	19859.	94. 260	NG	1. 43
7	84	123	6: 09	1	0. 589	A	BB	42820.	106. 641	NG	1. 62
8	43	141	7: 03	1	0. 675	A	BB	65401.	86. 995	NG	1. 32
9	76	164	8: 12	1	0. 785	A	BB	45077.	99. 228	NG	1. 51
10	96	198	9: 54	1	0. 947	A	BB	17524.	105. 900	NG	1. 61
11	63	233	11: 39	1	1. 115	A	BB	54967.	97. 558	NG	1. 48
12	96	254	12: 42	1	1. 215	A	BB	24258.	100. 202	NG	1. 52
13	83	268	13: 24	1	1. 282	A	BB	57812.	101. 762	NG	1. 55
14	62	289	14: 27	1	1. 383	A	BB	60580.	102. 665	NG	1. 56
15	101	179	8: 57	1	0. 856	A	BB	36759.	104. 776	NG	1. 59
16	85	54	2: 42	1	0. 258	A	BB	24633.	105. 021	NG	1. 60
17	56	143	7: 09	1	0. 684	A	BB	690.	796. 499	NG	12. 12
18	53	159	7: 57	1	0. 761	A	BB	8675.	90. 242	NG	1. 37
19	114	493	24: 39	19	1. 000	A	BB	210442.	250. 000	NG	3. 80
20	43	291	14: 33	19	0. 590	A	BB	74079.	80. 897	NG	1. 23
21	97	324	16: 12	19	0. 657	A	BB	36017.	112. 779	NG	1. 72
22	117	334	16: 42	19	0. 677	A	VB	17357.	110. 486	NG	1. 68
23	43	345	17: 15	19	0. 700	A	BB	111665.	124. 359	NG	1. 89
24	83	349	17: 27	19	0. 708	A	BB	33078.	98. 654	NG	1. 50
25	63	388	19: 24	19	0. 787	A	BB	44889.	104. 684	NG	1. 59
26	75	395	19: 45	19	0. 801	A	BB	29117.	94. 945	NG	1. 44
27	130	411	20: 33	19	0. 834	A	BB	39233.	108. 713	NG	1. 65
28	129	424	21: 12	19	0. 860	A	BB	20716.	97. 550	NG	1. 48
29	97	428	21: 24	19	0. 868	A	BB	33355.	110. 548	NG	1. 68
30	78	425	21: 15	19	0. 862	A	BB	93743.	104. 925	NG	1. 60
31	75	429	21: 27	19	0. 870	A	BB	27416.	90. 470	NG	1. 38
32	63	458	22: 54	19	0. 929	A	BB	27357.	70. 341	NG	1. 07
33	173	492	24: 36	19	0. 998	A	BB	14324.	107. 463	NG	1. 64
34	117	622	31: 06	34	1. 000	A	BB	166048.	250. 000	NG	3. 80
35	43	511	25: 33	34	0. 822	A	BV	69252.	106. 997	NG	1. 63
36	43	555	27: 45	34	0. 892	A	BV	66672.	96. 199	NG	1. 46
37	164	561	28: 03	34	0. 902	A	BB	38755.	110. 875	NG	1. 69
38	83	556	27: 48	34	0. 894	A	BB	48224.	120. 899	NG	1. 84
39	92	597	29: 51	34	0. 960	A	BB	58666.	108. 443	NG	1. 65
40	112	625	31: 15	34	1. 005	A	BB	82886.	105. 539	NG	1. 61
41	106	675	33: 45	34	1. 085	A	BB	34694.	101. 957	NG	1. 55
42	104	769	38: 27	34	1. 236	A	BB	68376.	142. 672	NG	2. 17
43	106	778	38: 54	34	1. 251	A	BB	35721.	58. 093	NG	0. 88
44	106	801	40: 03	34	1. 288	A	BB	64476.	209. 714	NG	3. 19
45	NOT	FOUND									
46	146	885	44: 15	34	1. 423	A	BB	103124.	234. 668	NG	3. 57
47	146	885	44: 15	34	1. 423	A	BB	103124.	234. 668	NG	3. 57
48	100	592	[illegible]	34	0. 952	A	BB	128264.	249. 744	NG	3. 80
49	99	733	[illegible]	34	1. 178	A	BB	138093.	243. 321	NG	3. 70

RIC
08/27/86 17:12:00
SAMPLE: CONC. 100UG/L
CONDS.:
RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6268 #1
CALI: PU6268 #2

SCANS 1 TO 1000



626

QUANTITATION REPORT FILE: PU6268

DATA: PU6268.TI
08/27/86 17:12:00
SAMPLE: CONC. 100UG/L
CONDS.
SUBMITTED BY: ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP FAC. FROM LIBRARY ENTRY

No	NAME
1	BROMOCHLOROMETHANE(INT. STD)
2	1,2-DICHLOROETHANE-D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE(B)
11	1,1-DICHLOROETANE(E)
12	TRANS-1,2-DICHLOROETHENE(D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACYRONITRILE
19	1,4-DIFLUOROBENZENE (INT. STD)
20	2-BUTANONE(MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE (J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS-1,3-DICHLOROPROPANE(AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHLOROETHANE(M)
30	BENZENE (BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE (G)
35	2-HEXANONE (MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE (N)
38	1,1,2,2-TETRACHLOROETHANE (CC)
39	TOLUENE
40	CHLOROBENZENE (G)
41	ETHYL BENZENE (E)
42	STYRENE
43	META-XYLENE
44	OTHRO/PARA-XYLENE
45	1-DICHLOROBENZENE (1-D'B)
46	1-DICHLOROBENZENE (O-DCB)
47	1-DICHLOROBENZENE (P-DCB)
48	1,2,4-TCB (SURR STD.)
49	BROMOFLUOROBENZENE (SURR STD.)

627

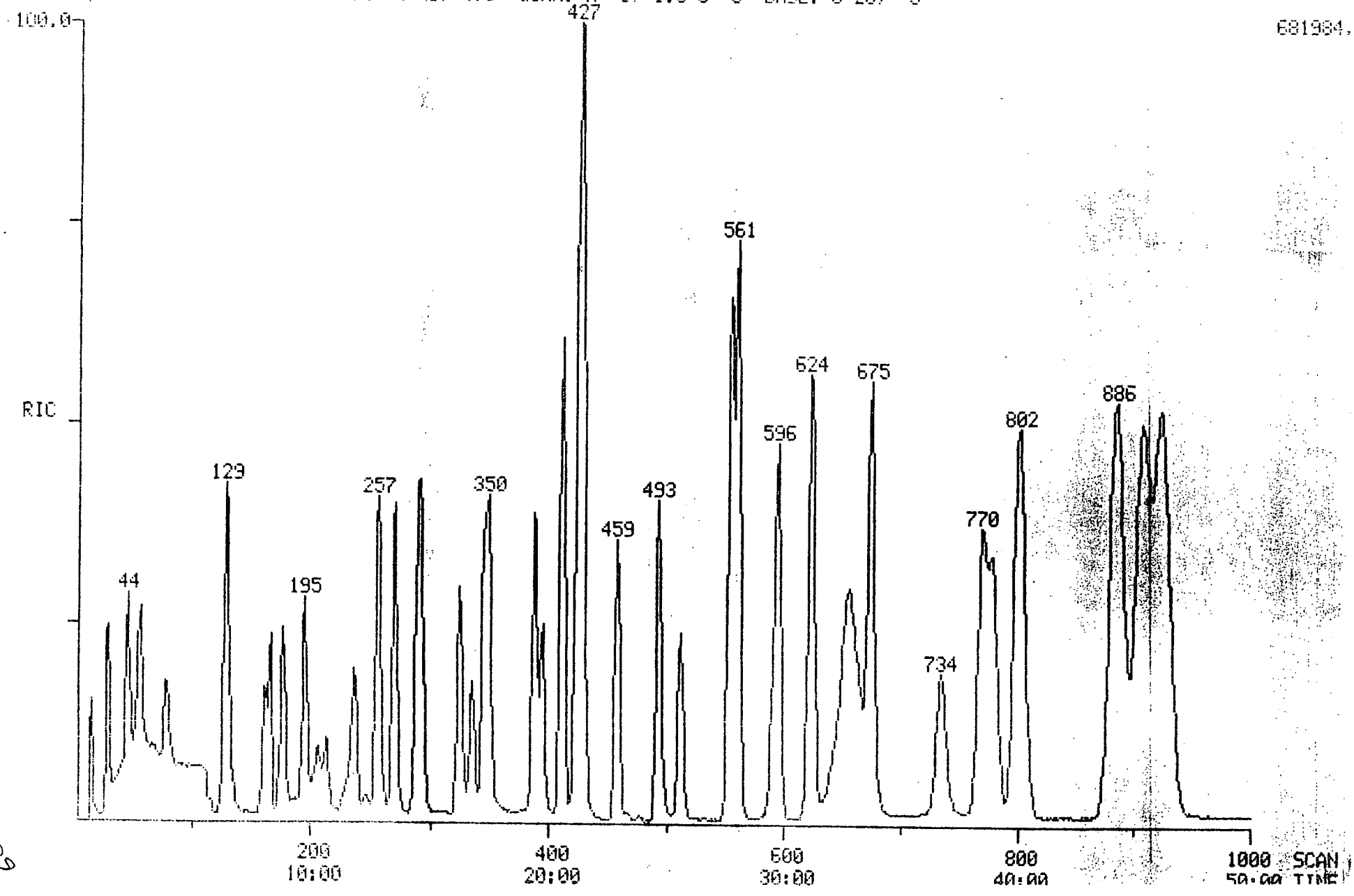
3	50	29	1:[illegible]	1	0.136	A	BB	[illegible]	425.178	NG	1.1[illegible]
4	94	47	2:21	1	0.220	A	BB	56075.	314.666	NG	0.86
5	62	58	2:54	1	0.271	A	BB	76013.	403.053	NG	1.10
6	64	79	3:57	1	0.369	A	BB	91473.	462.258	NG	1.26
7	84	130	6:30	1	0.607	A	BB	193686.	514.096	NG	1.40
8	43	162	8:06	1	0.757	A	BB	289054.	407.947	NG	1.11
9	76	164	8:12	1	0.766	A	BB	289364.	490.687	NG	1.34
10	96	198	9:54	1	0.925	A	BB	[illegible]852	578.112	NG	1.58
11	63	238	11:54	1	1.112	A	BB	259925.	491.166	NG	1.34
12	96	258	12:54	1	1.206	A	BB	121675.	535.112	NG	1.46
13	83	271	13:33	1	1.266	A	BB	292061.	547.345	NG	1.49
14	62	292	14:36	1	1.364	A	BB	293930.	530.346	NG	1.45
15	101	179	8:57	1	0.836	A	BB	178146.	540.624	NG	1.47
16	85	56	2:48	1	0.262	A	BB	90511.	410.850	NG	1.12
17	56	142	7:06	1	0.664	A	BB	2766.	10773.500	NG	29.36
18	53	174	8:42	1	0.813	A	BB	43591.	482.788	NG	1.32
19	114	494	24:42	19	1.000	A	BB	198723.	250.000	NG	0.68
20	43	294	14:42	19	0.595	A	BB	293861.	339.831	NG	0.93
21	97	326	16:18	19	0.660	A	BB	164995.	547.113	NG	1.49
22	117	337	16:51	19	0.682	A	VB	90936.	612.991	NG	1.67
23	43	347	17:21	19	0.702	A	VB	402509.	474.701	NG	1.29
24	83	351	17:33	19	0.711	A	BB	204076.	644.542	NG	1.76
25	63	390	19:30	19	0.789	A	BB	228148.	563.431	NG	1.54
26	75	397	19:51	19	0.804	A	BB	175992.	607.722	NG	1.66
27	130	413	20:[illegible]	19	0.836	A	BV	196360.	576.190	NG	1.57
28	129	425	21:10	19	0.860	A	BB	145557.	725.835	NG	1.98
29	97	429	21:27	19	0.868	A	BB	181072.	635.514	NG	1.73
30	78	426	21:18	19	0.862	A	BB	454214.	538.377	NG	1.47
31	75	430	21:30	19	0.870	A	BB	185121.	646.903	NG	1.76
32	63	459	22:57	19	0.929	A	BB	166667.	453.809	NG	1.24
33	173	493	24:39	19	0.998	A	BB	109321.	868.526	NG	2.37
34	117	622	31:06	34	1.000	A	BB	159489.	250.000	NG	0.68
35	43	513	25:39	34	0.825	A	BB	294108.	473.091	NG	1.29
36	43	555	27:45	34	0.892	A	BB	279913.	420.490	NG	1.15
37	164	561	28:03	34	0.902	A	BB	193876.	577.472	NG	1.57
38	83	556	27:48	34	0.894	A	BB	276026.	720.465	NG	1.96
39	92	596	29:48	34	0.958	A	BB	286148.	550.689	NG	1.50
40	112	625	31:15	34	1.005	A	BB	410989.	544.834	NG	1.48
41	106	675	33:45	34	1.085	A	BB	194322.	563.953	NG	1.54
42	104	770	38:30	34	1.238	A	BB	324639.	705.237	NG	1.92
43	106	778	38:54	34	1.251	A	BB	149967.	253.923	NG	0.69
44	106	801	40:03	34	1.288	A	BB	276182.	935.256	NG	2.55
45	146	886	44:18	34	1.424	A	BB	528387.	1157.900	NG	3.16
46	146	908	45:24	34	1.460	A	BV	481180.	1139.990	NG	3.11
47	146	924	46:12	34	1.486	A	VB	505976.	1198.740	NG	3.27
48	100	591	29:33	34	0.950	A	BB	121602.	246.509	NG	0.67
49	95	734	36:42	34	1.180	A	BB	135046.	247.739	NG	0.68

628

RIC
08/27/86 18:09:00
SAMPLE: CONC. 150UG/L
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6269 #1
CALI: PU6269 #2

SCANS 1 TO 1000



629

QUANTITATION REPORT FILE: PU6269

DATA: PU6269.TI
08/27/86 18:09:00
SAMPLE: CONC. 150UG/L
CONDS. :
SUBMITTED BY: ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	Name
1	BROMOCHLOROMETHANE(INT. STD)
2	1,2-DICHLOROETHANE-D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE(B)
11	1,1-DICHLOROETANE(E)
12	TRANS-1,2-DICHLOROETHENE(D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACYRONITRILE
19	1,4-DIFLUOROBENZENE (INT. STD)
20	2-BUTANONE(MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE (J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS-1,3-DICHLOROPROPANE(AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHLOROETHANE(M)
30	BENZENE (BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE D5
35	2-HEXANONE (MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE (N)
38	1,1,2,2-TETRACHLOROETHANE (Q)
39	TOLUENE
40	CHLOROBENZENE (O)
41	ETHYL BENZENE (R)
42	STYRENE
43	META-XYLENE
44	ETHRO/PARA-XYLENE
45	M-DICHLOROBENZENE (U)
46	O-DICHLOROBENZENE (V)
47	P-DICHLOROBENZENE (W)
48	TOLUENE-D8 (SURR STD.)
49	BROMOFLUOROBENZENE (SURR STD.)

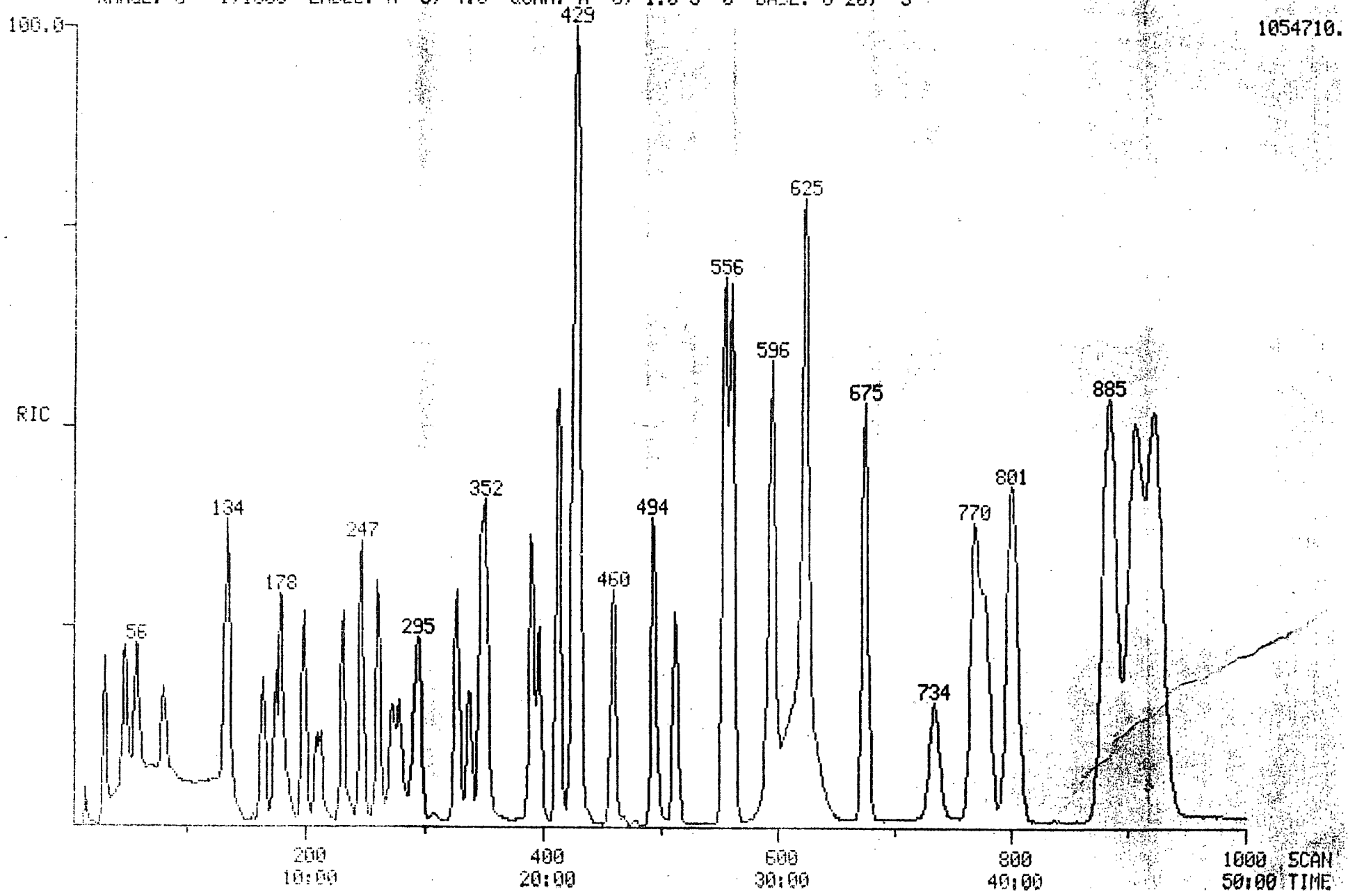
630

3	[illegible]	[illegible]	1:21	1	0.127	A	BB	331914.	823.657	NG	1.97
4	94	44	2:12	1	0.207	A	BV	169642.	855.072	NG	2.04
5	62	55	2:45	1	0.258	A	BB	208235.	991.784	NG	2.37
6	64	77	3:51	1	0.362	A	BB	154027.	699.161	NG	1.67
7	84	129	6:27	1	0.606	A	BB	291729.	694.810	NG	1.66
8	43	166	8:18	1	0.779	A	BB	416010.	529.202	NG	1.26
9	76	161	8:03	1	0.756	A	BB	359734.	757.307	NG	1.81
10	96	195	9:45	1	0.915	A	BB	148023.	855.462	NG	2.04
11	63	237	11:51	1	1.113	A	BB	431798.	732.908	NG	1.75
12	96	257	12:51	1	1.207	A	VB	198360.	783.583	NG	1.87
13	83	271	13:33	1	1.272	A	BB	492188.	828.528	NG	1.98
14	62	291	14:33	1	1.366	A	BB	479456.	777.057	NG	1.86
15	101	176	8:48	1	0.826	A	BB	273044.	744.287	NG	1.78
16	85	53	2:39	1	0.249	A	BB	145763.	594.316	NG	1.42
17	NOT	FOUND									
18	53	177	8:51	1	0.831	A	BB	75255.	748.658	NG	1.79
19	114	493	24:39	19	1.000	A	BB	210701.	250.000	NG	0.60
20	43	294	14:42	19	0.596	A	BB	444728.	485.062	NG	1.16
21	97	326	16:18	19	0.661	A	BB	277943.	869.246	NG	2.08
22	117	336	16:48	19	0.682	A	VB	161607.	1027.440	NG	2.46
23	43	346	17:18	19	0.702	A	VB	928634.	1032.930	NG	2.47
24	83	351	17:33	19	0.712	A	BB	373408.	1112.300	NG	2.66
25	63	389	19:27	19	0.789	A	BB	384214.	894.908	NG	2.14
26	75	396	19:48	19	0.803	A	BB	325106.	1058.810	NG	2.53
27	130	418	20:36	19	0.836	A	BV	327536.	906.468	NG	2.17
28	127	424	21:12	19	0.860	A	BB	274048.	1288.880	NG	3.08
29	97	428	21:24	19	0.868	A	VB	293388.	971.175	NG	2.32
30	78	426	21:18	19	0.864	A	BB	568032.	635.010	NG	1.52
31	75	430	21:30	19	0.872	A	BB	337647.	1112.830	NG	2.66
32	63	459	22:57	19	0.931	A	BB	253935.	652.119	NG	1.56
33	173	493	24:39	19	1.000	A	BB	216203.	1620.020	NG	3.87
34	117	622	31:06	34	1.000	A	BB	164852.	250.000	NG	0.60
35	43	512	25:36	34	0.823	A	BB	498011.	775.022	NG	1.85
36	43	555	27:45	34	0.892	A	BB	459356.	667.602	NG	1.60
37	164	561	28:03	34	0.902	A	BB	318929.	919.047	NG	2.20
38	83	556	27:48	34	0.894	A	BB	489579.	1236.290	NG	2.95
39	92	596	29:48	34	0.958	A	BB	373350.	695.135	NG	1.66
40	112	625	31:15	34	1.005	A	BB	531396.	681.536	NG	1.63
41	106	675	33:45	34	1.085	A	BB	249569.	738.743	NG	1.77
42	104	769	38:27	34	1.236	A	BB	543680.	1142.650	NG	2.73
43	106	778	38:54	34	1.251	A	BB	287471.	470.907	NG	1.13
44	106	801	40:03	34	1.288	A	BB	527490.	1728.160	NG	4.13
45	146	885	44:15	34	1.423	A	BB	825584.	1750.320	NG	4.18
46	146	[illegible]	46:09	34	1.484	A	VB	1008640.	2311.900	NG	5.52
~~47~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~34~~	~~1.484~~	~~A~~	~~VB~~	~~1008640.~~	~~2311.900~~	~~NG~~	~~5.52~~
48	100	591	29:33	34	1.950	A	BB	127666.	250.383	NG	0.60
49	95	724	36:42	34	1.180	A	BB	143640.	254.933	NG	0.61

RIC
06/27/86 19:47:00
SAMPLE: COND. 200UG/L
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6270 #1
CALI: PU6270 #2

SCANS 1 TO 1000



632

QUANTITATION REPORT FILE: PU6270

DATA: PU6270.TI
08/27/86 19:47:00
SAMPLE: CONC. 200UG/L
CONC.
SUBMITTED BY: ANALYST: CC

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP FAC. FROM LIBRARY ENTRY

No	NAME
1	BROMOCHLOROMETHANE(INT STD)
2	1,2-DICHLOROETHANE-D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE(B)
11	1,1-DICHLOROETANE(E)
12	TRANS-1,2-DICHLOROETHENE(D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACYRONITRILE
19	1,4-DIFLUOROBENZENE (INT. STD)
20	2-BUTANONE(MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE (J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS-1,3-DICHLOROPROPANE(AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHLOROETHANE(M)
30	BENZENE (BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE D5
35	2-HEXANONE (MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE (N)
38	1,1,2,2-TETRACHLOROETHANE (CC)
39	TOLUENE
40	CHLOROBENZENE (O)
41	ET-YL BENZENE (EB)
42	STYRENE
43	META-XYLENE
44	STH-O PARA-XYLENE
45	[illegible]
46	[illegible]
47	[illegible]
48	[illegible] (SURR. STD)
49	[illegible] (SURR. STD)

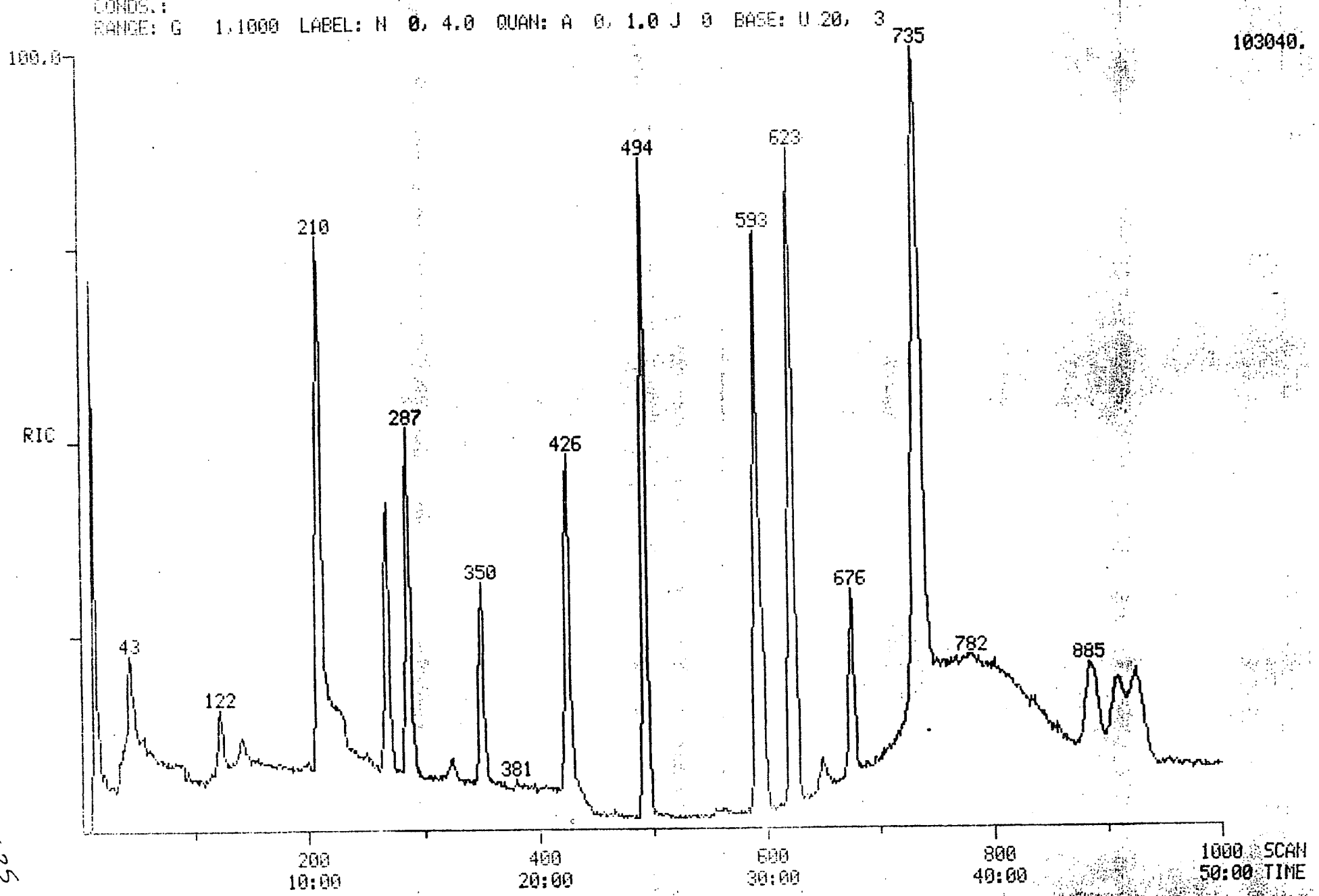
633

3	50	28	1:24	1	0.164	A	BB	492957.	1165.000	NG	1.55
4	94	46	2:18	1	0.217	A	BB	222544.	976.575	NG	1.42
5	62	57	2:51	1	0.269	A	BB	278442.	1154.560	NG	1.68
6	64	79	3:57	1	0.373	A	BB	241575.	954.667	NG	1.39
7	84	134	6:42	1	0.632	A	BB	332833.	690.134	NG	1.01
8	43	174	8:42	1	0.821	A	BB	790426.	875.386	NG	1.28
9	76	163	8:09	1	0.769	A	BB	668787.	1225.740	NG	1.79
10	96	198	9:54	1	0.934	A	BB	217497.	1094.320	NG	1.60
11	63	231	11:33	1	1.090	A	BV	632669.	934.903	NG	1.36
12	96	247	12:21	1	1.165	A	BV	274983.	945.711	NG	1.38
13	83	261	13:03	1	1.231	A	*BB	691138.	1012.880	NG	1.48
14	62	293	14:39	1	1.382	A	*BB	659626.	930.727	NG	1.36
15	101	179	8:57	1	0.844	A	BB	413640.	981.637	NG	1.43
16	85	55	2:45	1	0.259	A	BB	218824.	776.758	NG	1.13
17	56	141	7:03	1	0.665	A	BB	17427.	16749.400	NG	24.43
18	NOT	FOUND									
19	114	494	24:42	19	1.000	A	BB	228904.	250.000	NG	0.36
20	43	297	14:51	19	0.601	A	BB	705334.	708.126	NG	1.03
21	97	328	16:24	19	0.664	A	BB	433680.	1248.440	NG	1.82
22	117	338	16:54	19	0.684	A	VB	243736.	1426.370	NG	2.08
23	43	349	17:27	19	0.706	A	BV	1420040.	1453.920	NG	2.12
24	83	352	17:36	19	0.713	A	BB	574319.	1574.730	NG	2.30
25	63	391	19:33	19	0.791	A	BB	548733.	1176.460	NG	1.72
26	75	398	19:54	19	0.806	A	BB	506425.	1518.170	NG	2.21
27	130	414	20:42	19	0.838	A	BV	469501.	1196.030	NG	1.74
28	129	426	21:18	19	0.862	A	BB	452840.	1960.390	NG	2.86
29	97	430	21:30	19	0.870	A	VB	425066.	1295.160	NG	1.89
30	78	427	21:21	19	0.864	A	BB	933414.	960.495	NG	1.40
31	75	431	21:33	19	0.872	A	BB	528437.	1603.140	NG	2.34
32	63	460	23:00	19	0.931	A	BB	342328.	809.207	NG	1.18
33	173	494	24:42	19	1.000	A	BB	362445.	2499.860	NG	3.65
34	117	622	31:06	34	1.000	A	BB	208789.	250.000	NG	0.36
35	43	513	25:39	34	0.825	A	VB	836640.	1028.010	NG	1.50
36	43	555	27:45	34	0.892	A	BV	824881.	946.555	NG	1.38
37	164	561	28:03	34	0.902	A	BB	460150.	1046.950	NG	1.53
38	83	556	27:48	34	0.894	A	BB	740485.	1476.390	NG	2.15
39	92	596	29:48	34	0.958	A	BB	647650.	952.093	NG	1.39
40	112	625	31:15	34	1.005	A	BB	950258.	962.273	NG	1.40
41	106	675	33:45	34	1.085	A	BB	421326.	984.707	NG	1.44
42	104	769	38:27	34	1.236	A	BB	890503.	1477.720	NG	2.16
43	106	779	38:57	34	1.252	A	BB	382033.	494.114	NG	0.72
44	106	801	40:03	34	1.288	A	BB	715511.	1850.860	NG	2.70
45	146	885	44:15	34	1.423	A	BB	1295510.	2168.630	NG	3.16
46	146	907	45:21	34	1.458	A	BV	1169910.	2117.260	NG	3.09
47	146	907	45:21	34	1.458	A	BV	1169910.	2117.260	NG	3.09
48	100	591	29:33	34	0.950	A	BB	141241.	318.714	NG	0.32
49	95	733	36:39	34	1.178	A	BB	161227.	225.929	NG	0.33

RIC
08/28/85 9:43:00
SAMPLE: 100NG CONC
CONDS.:
RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU6278 #1
CALI: PU6278 #2

SCANS 1 TO 1000



635

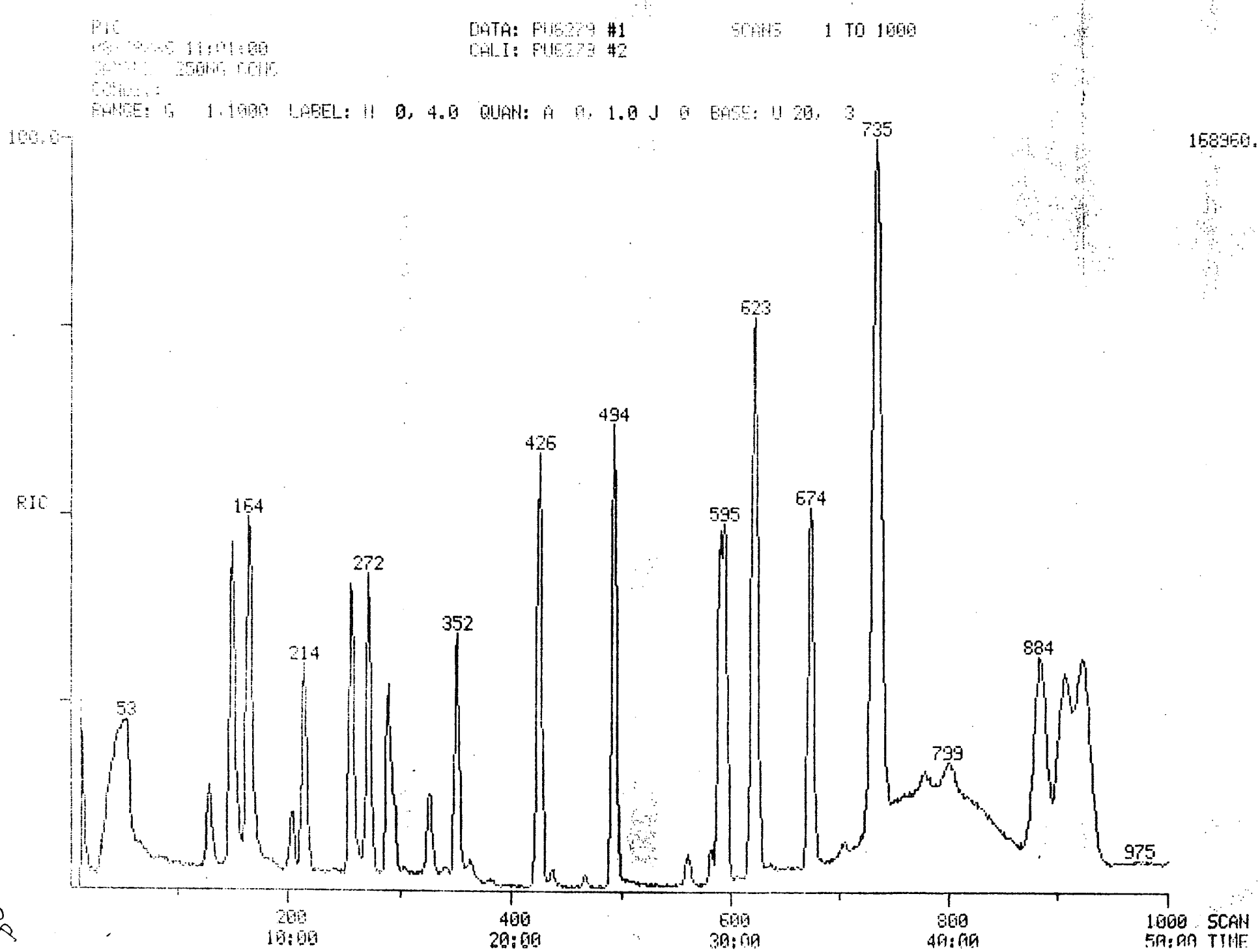
QUANTITATION REPORT FILE: PU6278

DATA: PU6278.TI
08/28/86 9:47:00
SAMPLE 100NG CONC
CONDS.:
SUBMITTED BY: ANALYST: IO

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No.	NAME
1	BROMOCHLOROMETHANE(INT. STD)
2	1,2-DICHLOROETHANE-D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE(B)
11	1,1-DICHLOROETANE(F)
12	TRANS-1,2-DICHLOROETHENE(D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACYRONITRILE
19	1,4-DIFLUOROBENZENE (INT STD)
20	2-BUTANONE(MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE (J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS-1,3-DICHLOROPROPANE(AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHLOROETHANE(M)
30	BENZENE (BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE D5
35	2-HEXANONE (HEX)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE (N)
38	1,1,2,2-TETRACHLOROETHANE (CC)
39	TOLUENE
40	CHLOROBENZENE (O)
41	ETHYL BENZENE (EB)
42	[illegible]
43	[illegible]
44	[illegible]
45	M-DICHLOROBENZENE (M-DCB)
46	O-DICHLOROBENZENE (O-DCB)
47	P-DICHLOROBENZENE (P-DCB)
48	TOLUENE-D8 (SURR STD.)
49	BROMOFLUOROBENZENE (SURR STD.)

2	65	287	14:11	1	1.373	A	BB	76573.	139.430	NG	5.10
3	50	29	1:27	1	0.139	A	BV	1544.	3.881	NG	0.14
4	NOT	FOUND									
5	NOT	FOUND									
6	NOT	FOUND									
7	84	123	6:09	1	0.589	A	BB	7721.	18.626	NG	0.68
8	NOT	FOUND									
9	NOT	FOUND									
10	NOT	FOUND									
11	NOT	FOUND									
12	NOT	FOUND									
13	83	269	13:27	1	1.287	A	BB	64822.	110.525	NG	4.04
14	NOT	FOUND									
15	101	180	9:06	1	0.861	A	BB	521.	1.438	NG	0.05
16	85	56	2:48	1	0.268	A	BB	1727.	7.132	NG	0.26
17	NOT	FOUND									
18	NOT	FOUND									
19	114	494	24:42	19	1.000	A	BB	137329.	250.000	NG	9.14
20	43	293	14:39	19	0.593	A	BB	6214.	10.399	NG	0.38
21	97	325	16:15	19	0.658	A	BV	7810.	37.473	NG	1.37
22	NOT	FOUND									
23	NOT	FOUND									
24	83	351	17:33	19	0.711	A	BB	41007.	187.415	NG	6.85
25	NOT	FOUND									
26	NOT	FOUND									
27	NOT	FOUND									
28	129	425	21:15	19	0.860	A	BB	31098.	224.400	NG	8.21
29	NOT	FOUND									
30	78	427	21:21	19	0.864	A	BB	51024.	87.516	NG	3.20
31	75	427	21:21	19	0.864	A	BB	351.	1.775	NG	0.06
32	NOT	FOUND									
33	173	494	24:42	19	1.000	A	BB	20796.	239.081	NG	8.74
34	117	623	31:09	34	1.000	A	BB	116259.	250.000	NG	9.14
35	43	514	25:42	34	0.825	A	*BB	2563.	5.656	NG	0.21
36	43	556	27:48	34	0.892	A	BV	2775.	5.718	NG	0.21
37	NOT	FOUND									
38	NOT	FOUND									
39	92	597	29:51	34	0.958	A	BB	29758.	78.564	NG	2.87
40	112	626	31:18	34	1.005	A	BB	42462.	77.222	NG	2.82
41	106	676	33.48	34	1.085	A	BB	18695.	78.469	NG	2.87
42	NOT	FOUND									
43	NOT	FOUND									
44	NOT	FOUND									
45	146	885	44:15	34	1.422	A	BB	34177.	102.745	NG	3.76
46	146	910	45.30	34	1.461	A	BV	28676.	93.199	NG	3.41
47	146	926	46.15	34	1.486	A	VB	36821.	119.673	NG	4.38
48	100	998	49:36	34	0.950	A	BB	84765.	235.729	NG	8.62
49	95	734	36:42	34	1.178	A	BB	107598.	270.782	NG	9.90


PIC
DATA: PU6279 #1
CALI: PU6273 #2
SCANS 1 TO 1000
RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
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168960.
RIC
735
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975
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30:00
800
40:00
1000 SCAN
50:00 TIME

638

QUANTITA[illegible] FILE: PU627[illegible]

DATA: PU627[illegible] TI
08/28/86 11:01:00
SAMPLE: 250NG [illegible]
CONDS:
SUBMITTED [illegible] ANALYST: [illegible]

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	Name
1	BROMOCHLOROMETHANE(INT. STD)
2	1,2-DICHLOROETHANE-D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLOR[illegible]
6	[illegible]
7	METHYLENE [illegible] (C)
8	ACETONE
9	[illegible]
10	1,1-[illegible](B)
11	1,1-[illegible](E)
12	[illegible]ENE(D)
13	[illegible]
14	[illegible]
15	[illegible]ANE
16	DICHLO[illegible]ANE
17	[illegible]
18	ACYRONITRILE
19	1,4-DIFLUOROBENZENE (INT. STD)
20	2-BUTANONE(MEK)
21	[illegible] (I)
22	[illegible]
23	[illegible]
24	[illegible] (L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS-1,2-DICHLOROPROPANE(AA)
27	TRICHL[illegible]
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHLOROETHANE(M)
30	BENZENE (BEN)
31	CIS-1,2-DICHLOROPROPENE(Z)
32	[illegible]
33	[illegible]
34	[illegible]
35	[illegible]
36	[illegible]
37	[illegible]
38	[illegible]
39	[illegible]
40	[illegible]
41	[illegible]
42	[illegible]
43	[illegible]
44	[illegible]
45	[illegible]
46	[illegible]
47	[illegible]
48	[illegible]
49	[illegible]
50	[illegible]

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	A*BB	[illegible]	5.085	NG	0.01
NOT FOUND									
NOT FOUND									
84	128	6:24	1	0.5[illegible]	A BB	20718	60.785	NG	0.14
43	149	7:27	1	[illegible]	A BB	300505.	471.378	NG	1.11
NOT FOUND									
NOT FOUND									
NOT FOUND									
NOT FOUND									
83	272	13:36	1	[illegible]	A BB	123095	255.257	NG	0.60
NOT FOUND									
101	184	9.12	1	0.[illegible]	A BB	1158.	3.888	NG	0.01
NOT FOUND									
56	149	7:27	[illegible]	[illegible]	A BB	25121	[illegible]164.700	NG	80.73
53	164	8:12	1	[illegible]	A BB	195314	[illegible]93.550	NG	5.66
[illegible]	[illegible]	24:42	[illegible]	[illegible]	A BB	134578	250.000	NG	0.59
[illegible]	[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	A BB	26659	130.534	NG	0.31
117	326	16:16	19	[illegible]	A BB	3135	31.205	NG	0.07
NOT FOUND									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	A BB	86110	401.594	NG	0.95
NOT FOUND									
[illegible]	[illegible]								
[illegible]									
					[illegible]	62316	[illegible].122	NG	1.08
					[illegible]	125260	[illegible].245	NG	0.52
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	A BB	2005.	10.346	NG	0.02
173	[illegible]	[illegible]	19	[illegible]	A BB	30116.	587.958	NG	1.39
117	[illegible]	[illegible]	34	1.[illegible]	A BB	120324.	250.000	NG	0.59
43	[illegible]	[illegible]	34	0.[illegible]	A BV	2314.	4.934	NG	0.01
		[illegible]	[illegible]	[illegible]	A BB	92165.	[illegible]35.105	NG	0.56
[illegible]	[illegible]	[illegible]	34		A BB	140341.	246.602	NG	0.50
[illegible]		[illegible]	[illegible]	[illegible]	A BB	63929.	259.264	NG	0.61
					A BB	9799	21.992	NG	0.05
			[illegible]	[illegible]	A BB	9799.	43.984	NG	0.10
146	885	44:15	34	1.425	A BB	104599.	303.827	NG	0.72
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	A BV	89746.	281.832	NG	0.67
					[illegible]	[illegible]	[illegible]	NG	0.9[illegible]
					[illegible]	[illegible]	[illegible]	NG	0.5[illegible]
					[illegible]	[illegible]	[illegible]	NG	0.6[illegible]

6.10

PS172H

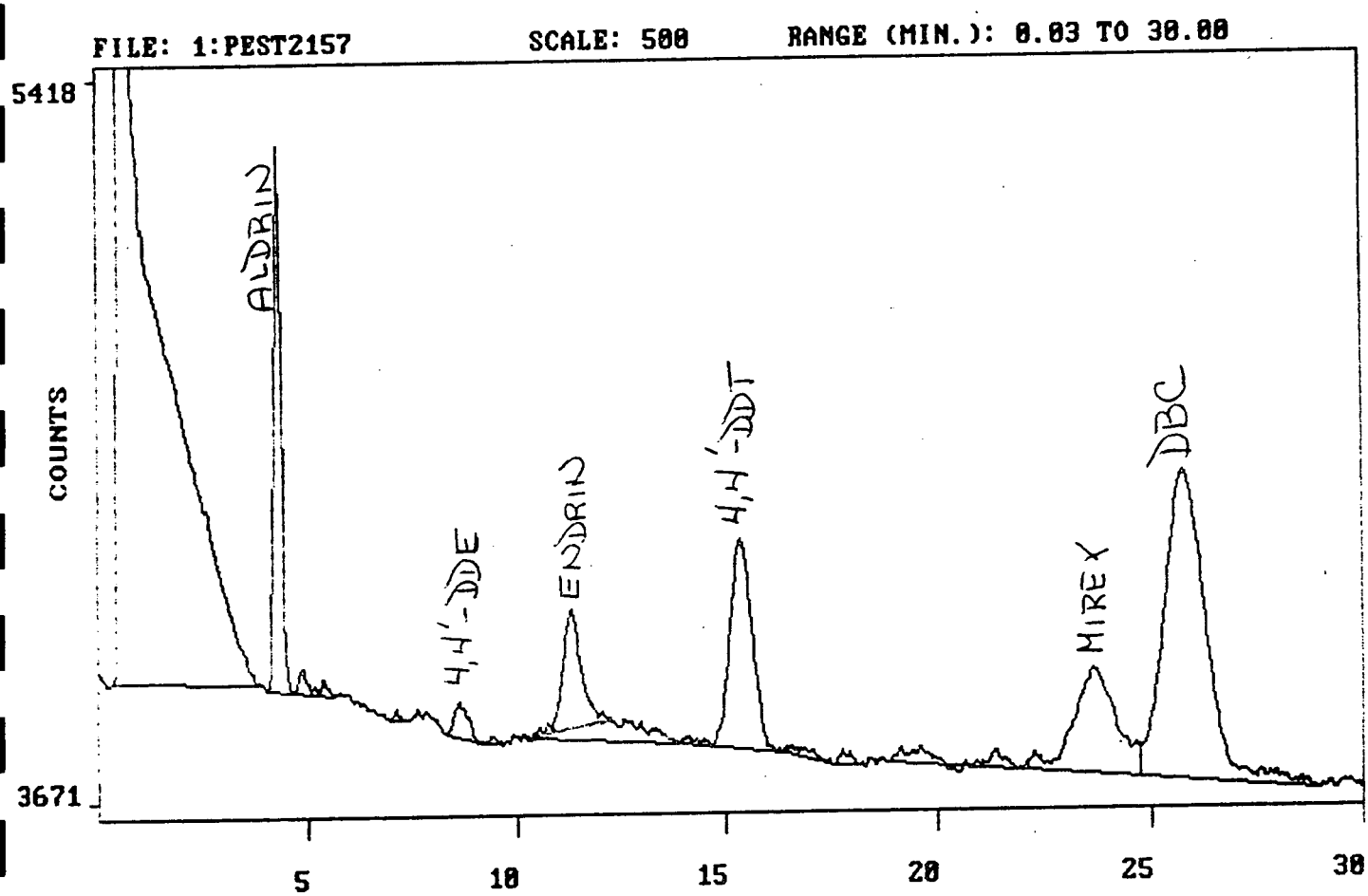
EVALUATION STANDARDS MIX A

PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:10:[illegible] Date MON 29 SEP 86

Time:09:[illegible] Date MON 29 SEP 86
Method:PEST3



Channel #. . . REINT Time:10:27:31 Date:MON 29 SEP 86

Sample name .....NJDEP
Data file 1:PEST2157
Method name PEST2

Author.. . . . .LAL
Instrument. . . .ECD
Column.. . . . .G
Notes... . . . .Primary Column Runs

Run time	30.00 min.	Delay time	0.00 min.
Acq. time...	..09:04:07	Acq. date .	MON 29 SEP 86
Start PW .	20.00 sec.	End PW...	150.00 sec.
		Actual PW .	140.0

Slope sens.. . .0.75 uv/sec.

Area reject 500
peaks found 15
V. Inj [illegible] 0 ul Sample amount .1.000
[illegible] factor .1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R T (min)	M/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.587			[illegible]	6166765	886405	BB
2	4.321		ALDRIN	0.238	14944	1341	BB
3	4.879			0.012	761	61	BV
4	5.388			0.009	545	40	VB
5	8.659		4,4'-DDE	[illegible]	1822	80	BB
6	11.377		ENDRIN	0.[illegible]	~~14610~~ 8610	306	BB
7	15.412		4,4'-DDT	[illegible]	18609	501	BB
8	16.583			0.011	726	17	BB
9	17.819			[illegible]	576	29	BB
10	19.667			0.024	1609	36	BV
11	21.487			0.016	992	38	VB
12	23.799		MIREX	0.279	17530	250	BV
13	25.866		DBC	[illegible]	49721	735	VB
TOTALS				10[illegible]	6288[illegible]		

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PRIMARY COLUMN

PS172'5

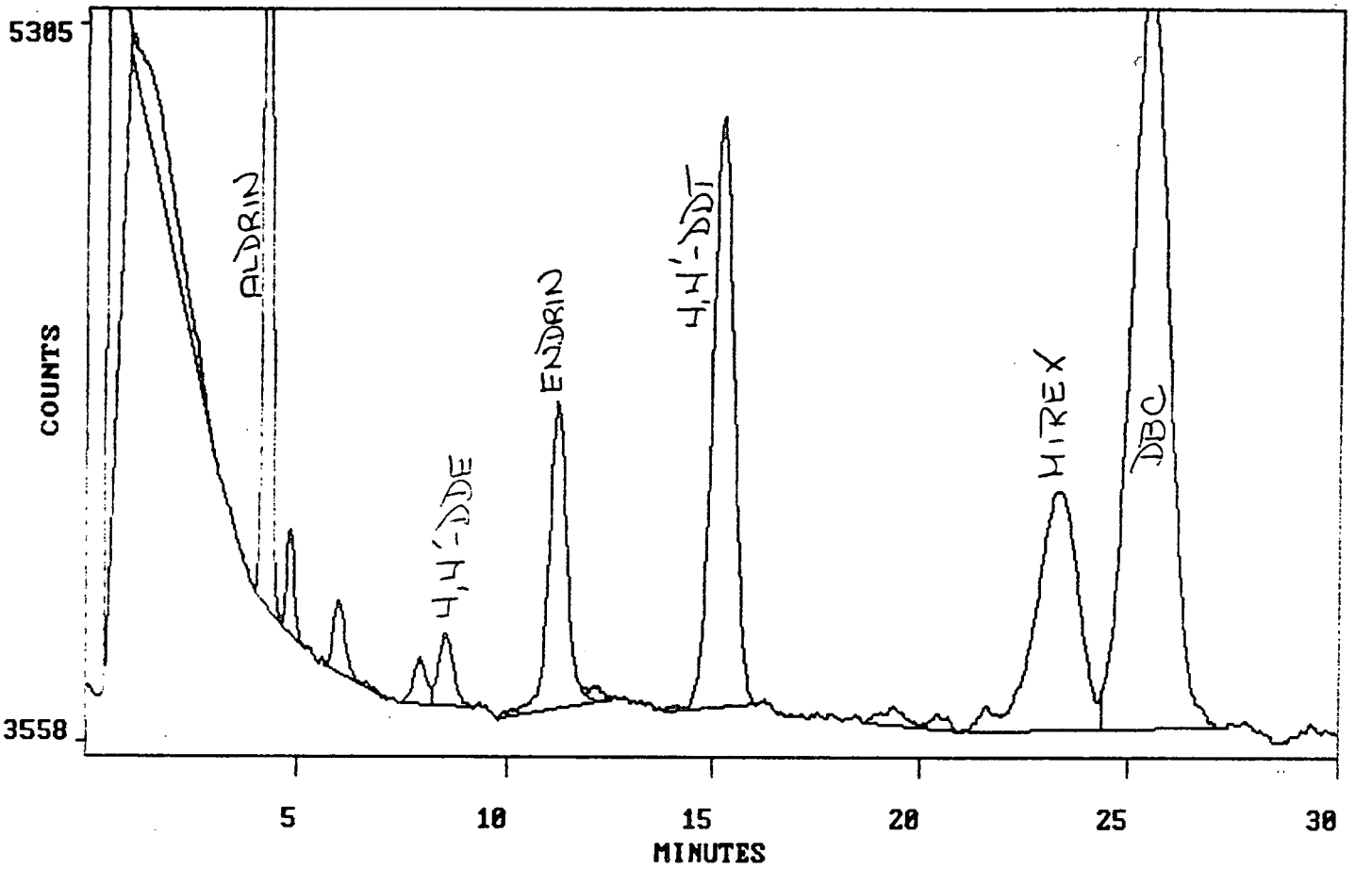
EVALUATION STANDARDS MIX B

Time:10:11:09 Date:MON 29 SEP 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:37:05 Date:MON 29 SEP 86
Method:PEST2

FILE: 1:PEST2158 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



1.3

643

Channel #.....4 Time.10:07:36 Date:MON 29 SEP 86
Run #2 of 100

Sample name.....NJDEP
Data file.....DAT255:PEST2158
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....09:37:05 Acq. date....MON 29 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..14
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.584			95.514	6345363	896214	BB
2	1.098			0.170	11314	70	BB
3	4.280		ALDRIN	0.568	37752	3451	BB
4	4.827			0.046	3040	253	BB
5	5.996			0.052	3473	172	BB
6	7.949			0.036	2412	108	BV
7	8.556		4,4'-DDE	0.064	4277	171	VB
8	11.224		ENDRIN	0.338	22472	740	BE
9	12.156			0.012	811	32	EB
10	15.254		4,4'DDT	0.788	52331	1423	BB
11	19.414			0.026	1749	42	BV
12	20.567			0.014	920	30	VB
13	23.414		MIREX	0.631	41903	574	BV
14	25.536		DBC	1.740	115578	1824	VB
TOTALS				100.000	6643395		

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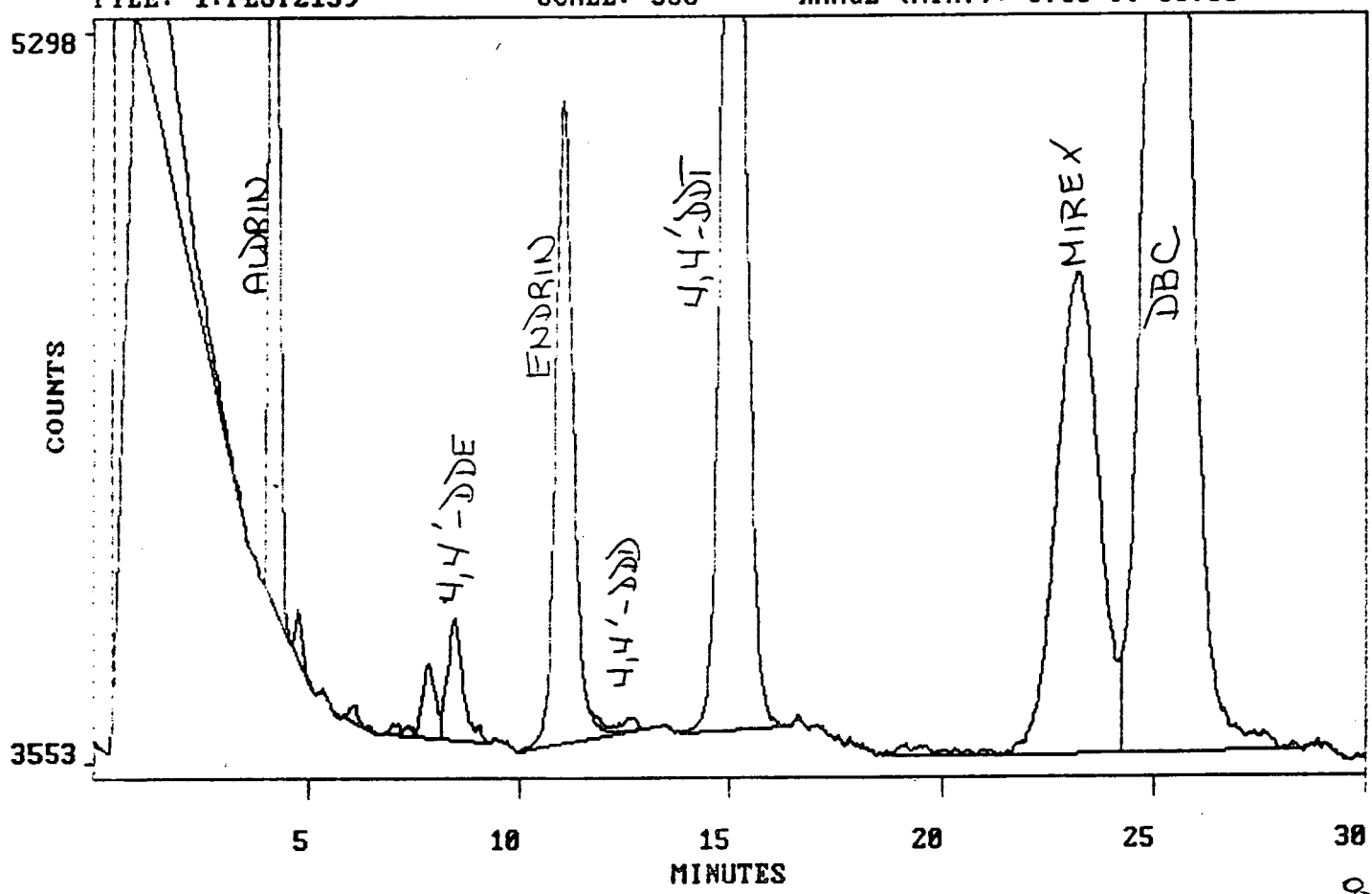
PS1722
EVALUATION STANDARDS MIX C.
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:10:42:04 Date:MON 29 SEP 86

Time:10:10:20 Date:MON 29 SEP 86
Method:PEST2

FILE: 1:PEST2159 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



108

Channel # .4 Time:10:40:52 Date:MON 29 SEP 86
Run #3 of 100

Sample name .....NJDEP
Data file DAT255:PEST2159
Method name.....PEST2

Author.....LAL
Instrument ...ECD
Column.....G
Notes.....Primary Column Runs

Run time..... 30.00 min. Delay time...0.00 min.
Acq. time.....10:10:20 Acq. date....MON 29 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject ..500
peaks found..14
Vol Inj.....5.0 ul Sample amount..1.000
Conv factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.583			91.746	6562724	921104	BB
2	1.454			0.316	22616	357	BB
3	4.216		ALDRIN	1.043	74640	6760	BB
4	4.763			0.016	1154	119	BB
5	6.052			0.008	590	37	BB
6	7.024			0.011	810	28	BV
7	7.848			0.054	3860	172	VV
8	8.482		4,4'-DDE	0.103	7336	285	VB
9	11.127		ENDRIN	0.610	43635	1502	BE
10	12.700		4,4'-DDD	0.018	1307	30	EB
11	15.136			1.549	110799	2974	BB
12	19.573			0.017	1184	19	BB
13	22.292		HIREX	1.123	80298	1137	BV
14	25.403		DBC	3.382	241993	3692	VB
TOTALS				100.000	7153146		

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PS1723

EVALUATION STD MIX B

PRIMARY COLUMN

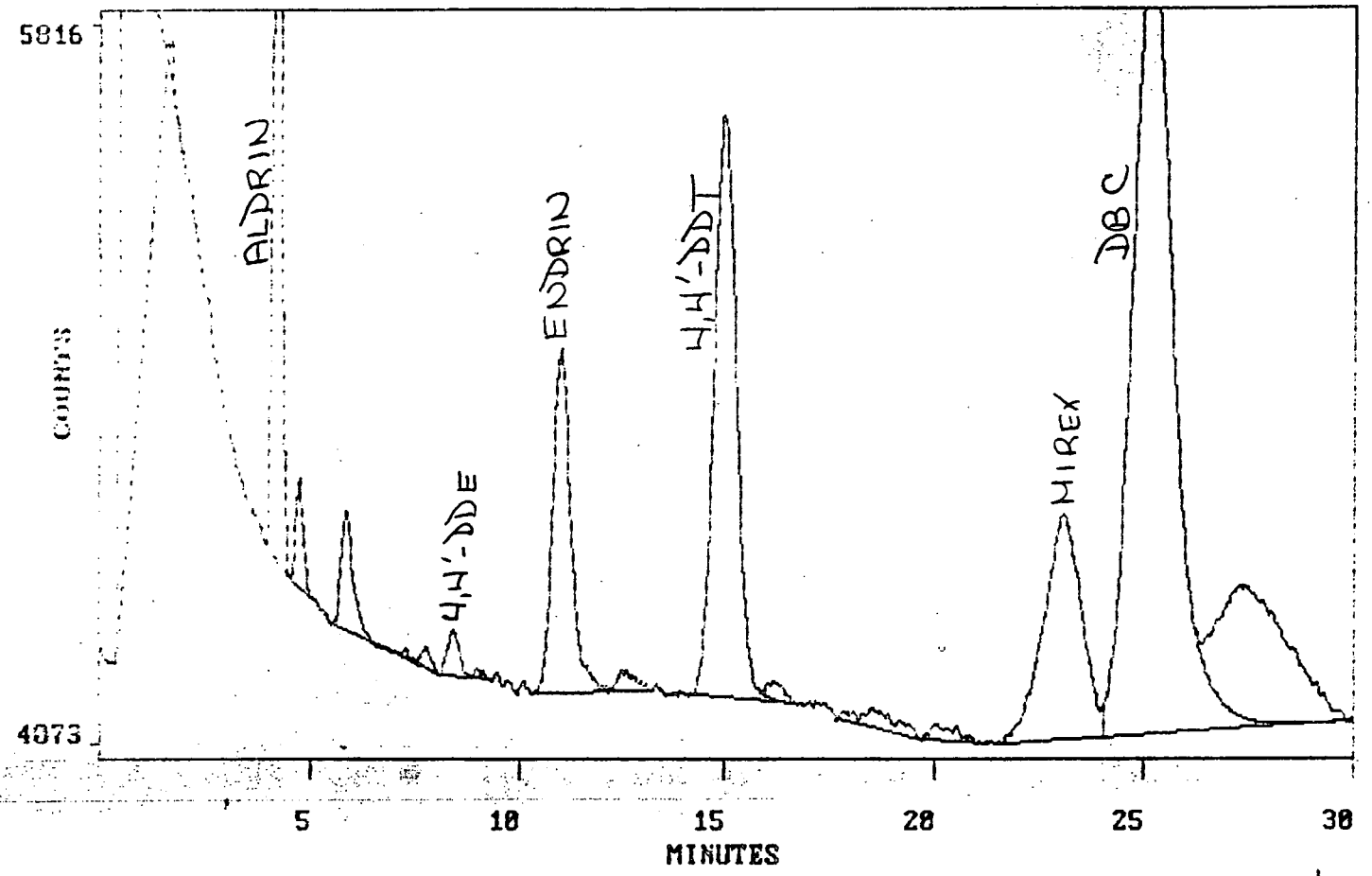
Time:20:41:37 Date:MON 29 SEP 86

RECONSTRUCT SCREEN DUMP

Data Acquisition Time:20:08:39 Date:MON 29 SEP 86

Method:PEST2

FILE: 1:PEST2175 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



7.4

647

Channel # ..... 4 Time: 20:39:12 Date: MON 29 SEP 86
Run #15 of 100

Sample name ..... NJDEP
Data file DAT255:PEST2175
Method name PEST2

Author ..... LAL
Instrument ..... ECD
Column ..... G
Notes ..... Primary Column Runs

Run time ..... 30.00 min. Delay time ... 0.00 min.
Acq. time ..... 20:09:39 Acq. date .... MON 29 SEP 86
Start PW ..... 20.00 sec. End PW ..... 150.00 sec.
Actual PW 140.0
Slope sens ..... 0.75 uv/sec.

Area reject 500
peaks found .. 17
Vol. Inj ..... 5.0 ul Sample amount .. 1.000
Dilu. factor ... 1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T. (min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.583			94.789	6155142	931356	BB
2	4.205		ALDRIN	0.584	37949	3392	BB
3	4.730			0.049	3156	261	BB
4	5.852			0.091	5900	290	BB
5	7.775			0.017	1131	51	BB
6	8.453		4,4'-DDE	0.033	2112	106	BB
7	11.063		ENDRIN	0.383	24861	817	BV
8	12.567			0.023	1470	45	VB
9	15.035		4,4'-DDT	0.802	52071	1406	BB
10	16.208			0.018	1179	43	BB
11	18.615			0.043	2748	42	BB
12	20.111			0.024	1570	37	BB
13	23.156		MIREX	0.548	35248	534	BV
14	25.247		DBC	2.051	133151	1909	VB
15	27.426			0.552	35818	311	BB
TOTALS				100.000	6493506		

648

PS1723

EVALUATION STD MIX B

PRIMARY COLUMN

Time:12:15:56 Date:TUE 30 SEP 86

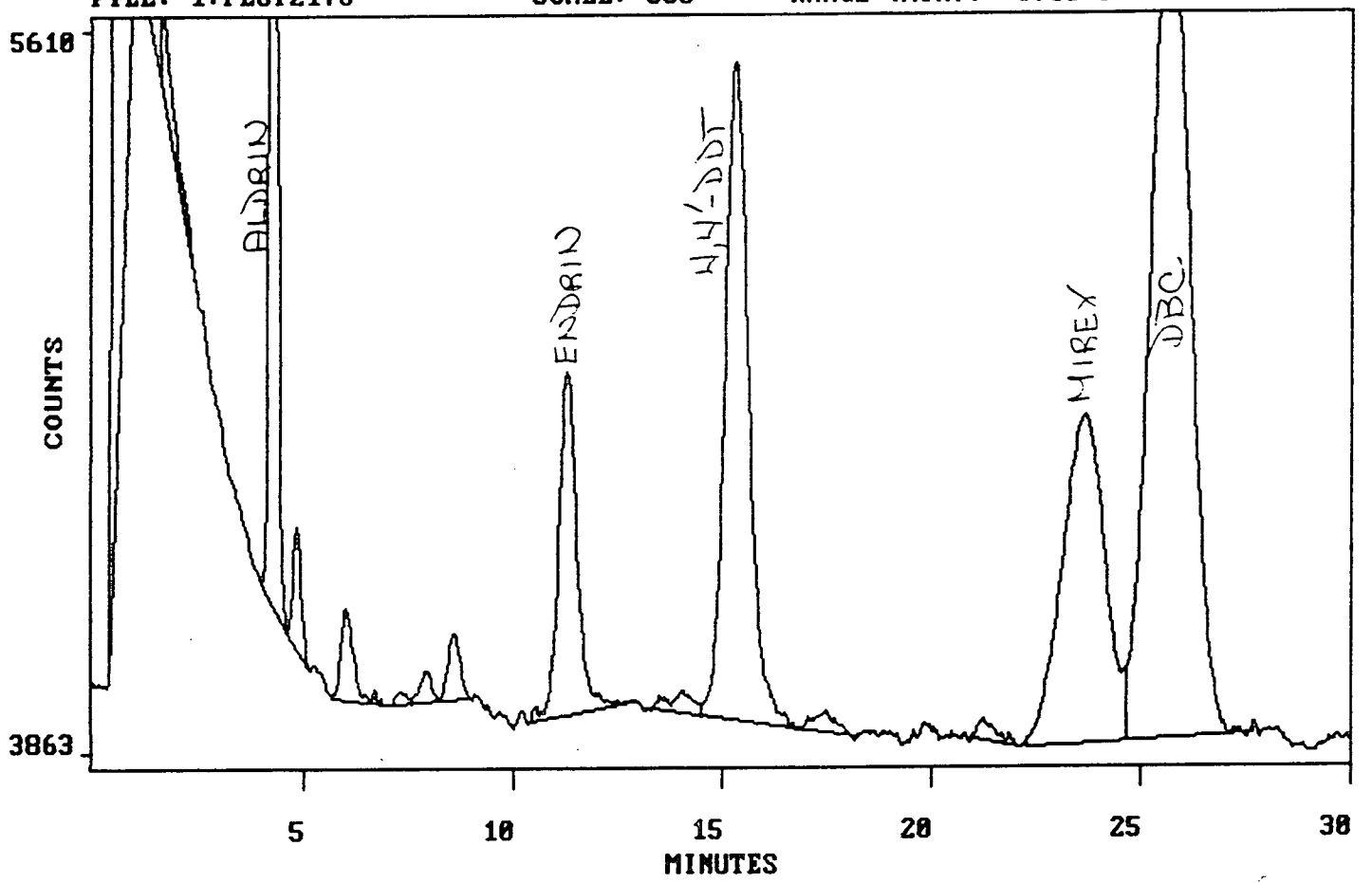
RECONSTRUCT SCREEN DUMP

Data Acquisition

Time:11:44:30 Date:TUE 30 SEP 86

Method:PEST2

FILE: 1:PEST2176 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



649

Channel #.....4 Time:12:15:09 Date:TUE 30 SEP 86
Run #1 of 100

Sample name.....NJDEP
Data file.....DAT255:PEST2176
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....11:44:30 Acq. date....TUE 30 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..16
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.614			95.262	6909908	873383	BB
2	1.095			0.047	3400	63	BV
3	1.731			0.057	4132	237	VB
4	4.294		ALDRIN	0.565	40994	3679	BB
5	4.834			0.051	3672	291	BB
6	6.018			0.064	4670	213	BB
7	7.311			0.008	575	30	BV
8	7.959			0.021	1497	72	VV
9	8.617		4,4'-DDE	0.044	3191	155	VB
10	11.310		ENDRIN	0.340	24687	821	BB
11	14.070			0.031	2267	50	BV
12	15.361		4,4'-DDT	0.866	62849	1580	VV
13	17.470		ENDRIN ALDEHYDE	0.025	1835	47	VB
14	21.342			0.021	1538	47	BB
15	23.753		MIREX	0.776	56294	783	BV
16	25.792		DBC	1.821	132062	2005	VB
TOTALS				100.000	7253571		

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151723

EVALUATION MIX B

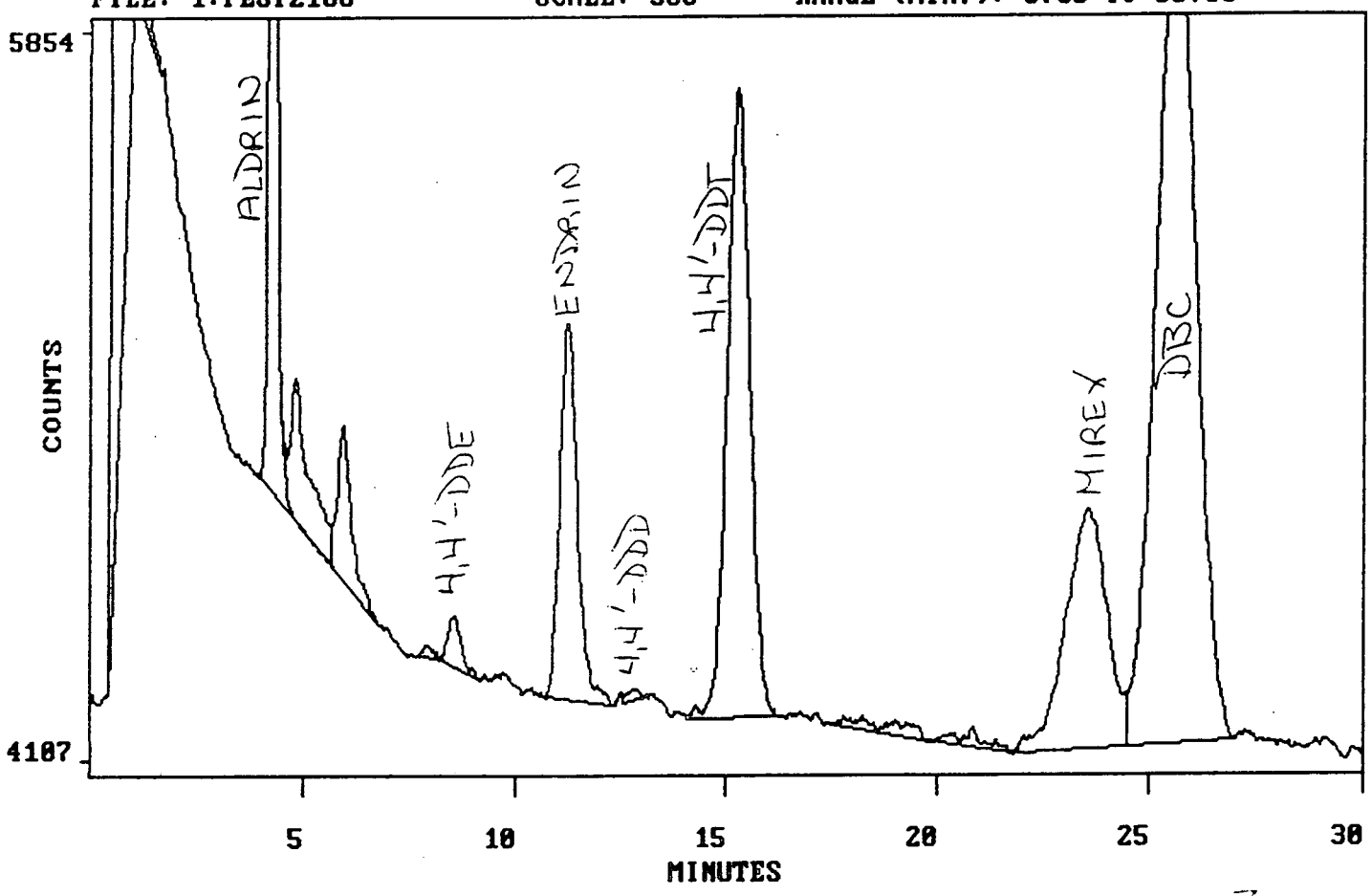
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:19:45:51 Date:TUE 30 SEP 86

Time:19:13:30 Date:TUE 30 SEP 86
Method:PEST2

FILE: 1:PEST2188 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



.7

651

Channel #.....4 Time:19:44:03 Date:TUE 30 SEP 86
Run #1 of 100

Sample name.....NJDEP
Data file.....DAT256:PEST2188
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....19:13:30 Acq. date....TUE 30 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..15
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.586			95.275	6447708	880454	BB
2	1.091			0.015	1036	58	BB
3	4.293		ALDRIN	0.629	42590	3649	BE
4	4.833			0.159	10742	346	EV
5	5.930			0.124	8366	371	VB
6	8.587		4,4'-DDE	0.038	2553	117	BB
7	11.284		ENDRIN	0.386	26155	890	BB
8	12.858		4,4'-DDD	0.010	648	26	BB
9	15.329		4,4'-DDT	0.828	56042	1484	BB
10	17.852			0.015	996	19	BV
11	19.033			0.021	1443	28	VB
12	20.885			0.026	1764	40	BB
13	23.639		MIREX	0.569	38518	555	BV
14	25.683		DBC	1.905	128931	1995	VB
TOTALS				100.000	6767492		

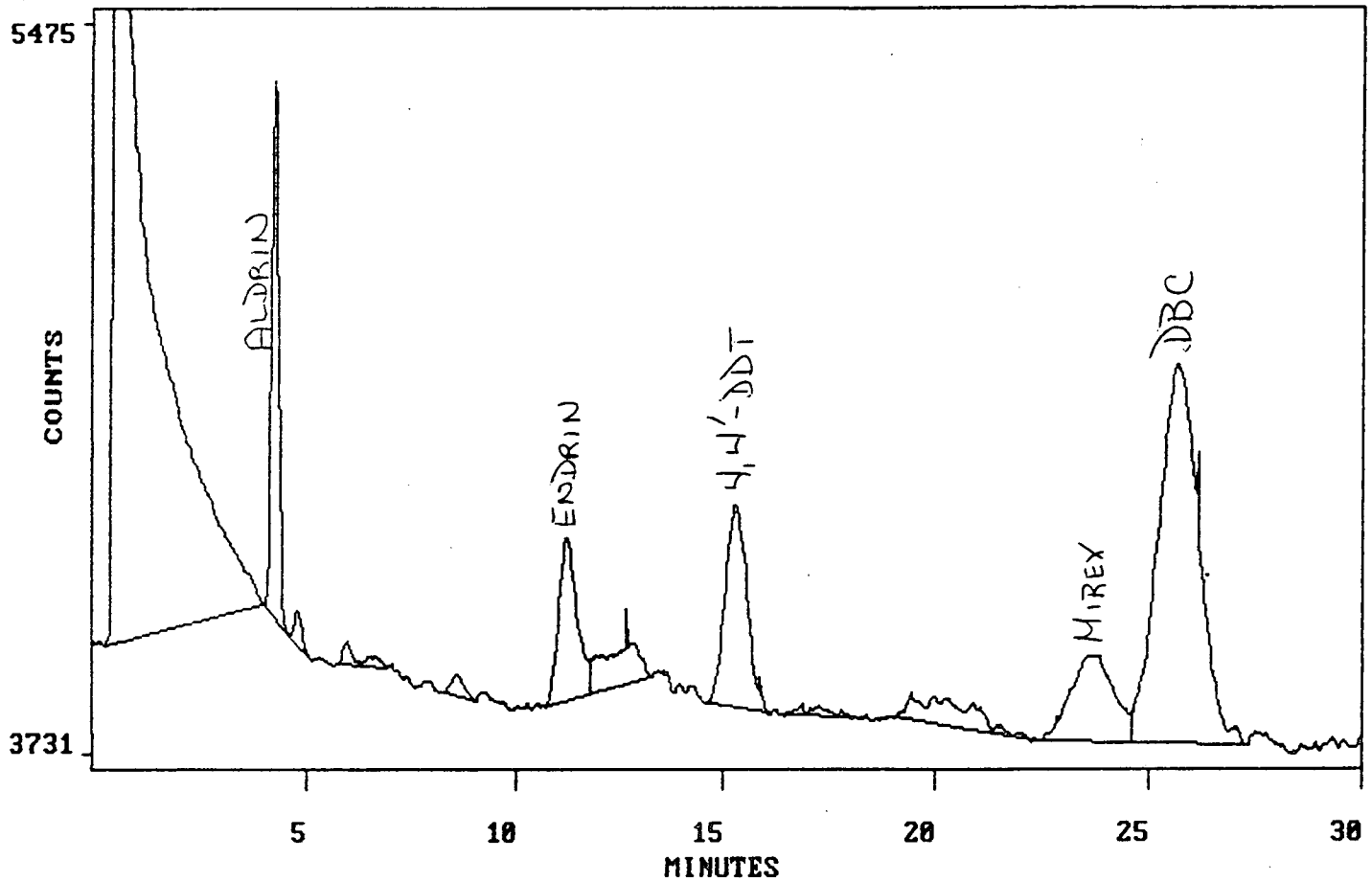
PS1724
EVALUATION STANDARD MIX A
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:19:43:31 Date:WED 08 OCT 86

Time:10:06:13 Date:MON 06 OCT 86
Method:PEST2

FILE: PEST2243 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



65

Channel #.....REINT Time:19:39:34 Date:WED 08 OCT 86

Sample name.....
Data file.....PEST2243
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....10:06:13 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
                  Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..13
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.584			97.858	6097990	901652	BB
2	4.278			0.229	14245	1299	BB
3	4.798			0.014	866	78	BB
4	5.961			0.012	776	53	BV
5	8.600			0.016	1004	47	BB
6	11.294			0.196	12183	381	BV
7	12.708			0.099	6157	112	VB
8	15.326			0.274	19074	479	BB
9	16.880			0.016	986	20	BB
10	20.335			0.099	6182	64	BB
11	23.783			0.234	14603	202	BV
12	25.774			0.954	59420	888	VB
TOTALS				100.000	6231486		

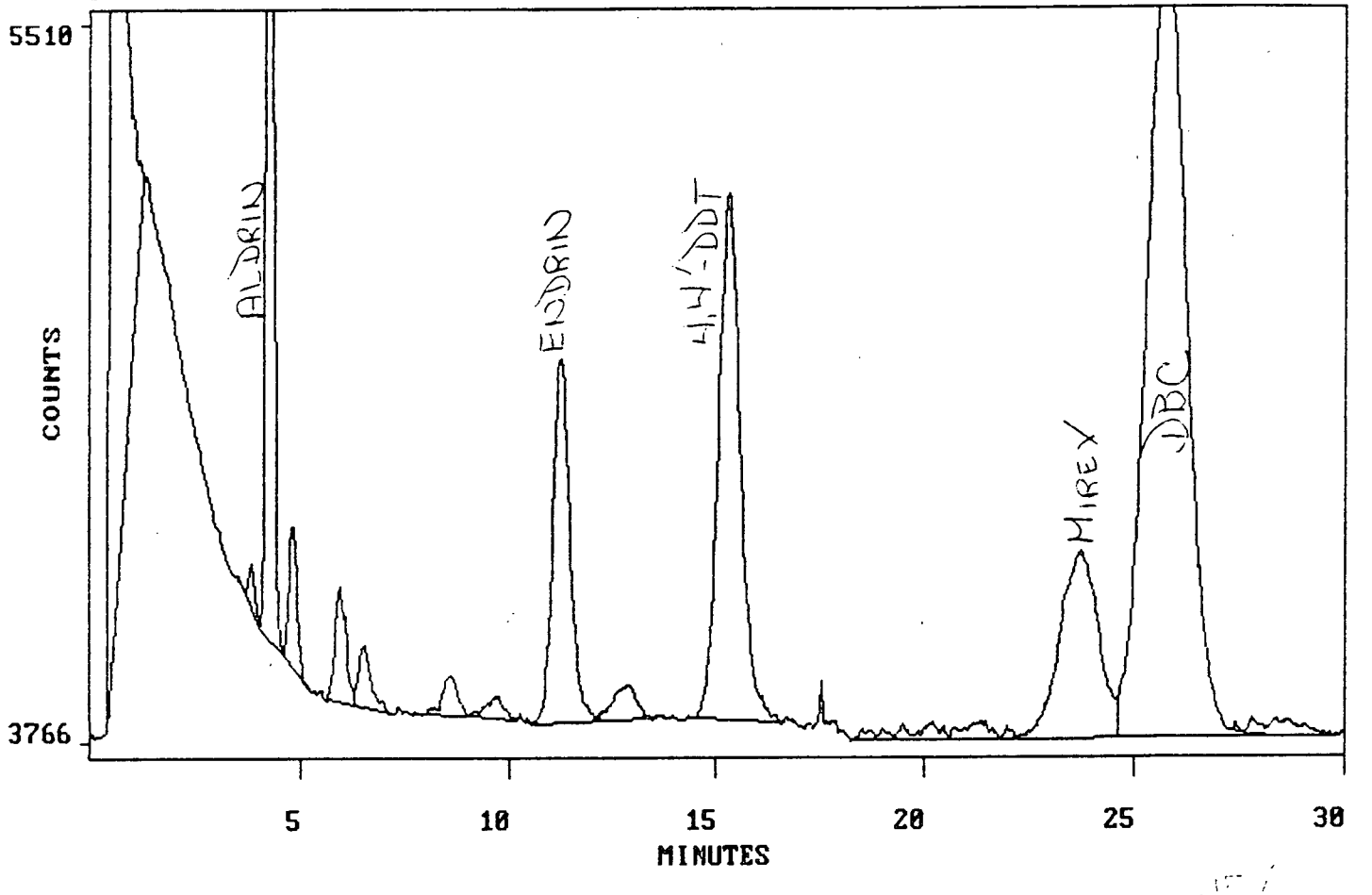
PS1723
EVALUATION STD MIX B
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:19:45:46 Date:WED 08 OCT 86

Time:10:40:33 Date:MON 06 OCT 86
Method:PEST2

FILE: PEST2244 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



Channel # . . . REINT Time:19:40:51 Date:WED 08 OCT 86

Sample name.....
Data file PEST2244
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....1.5% OV-17 + 1.95% OV-210 on 100/120 CHROMOSORB WHP
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....10:40:33 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
                  Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..15
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.605			95.727	6514725	872391	BB
2	3.841			0.013	867	106	BB
3	4.287		ALDRIN	0.511	34762	3181	BB
4	4.817			0.065	4430	348	BB
5	5.952			0.076	5189	274	BV
6	6.543			0.045	3050	149	VB
7	8.620		4,4'-DDE	0.037	2532	95	BB
8	9.713			0.022	1468	49	BB
9	11.294		ENDRIN	0.379	25768	875	BV
10	12.900		4,4'-DDD	0.048	3275	79	VB
11	15.373		4,4'-DDT	0.705	47972	1264	BB
12	21.415			0.062	4237	37	BV
13	23.788		MIREX	0.420	28598	439	VV
14	25.812		DBC	1.851	125963	1915	VE
15	28.424			0.039	2686	37	EB
TOTALS				100.000	6805522		

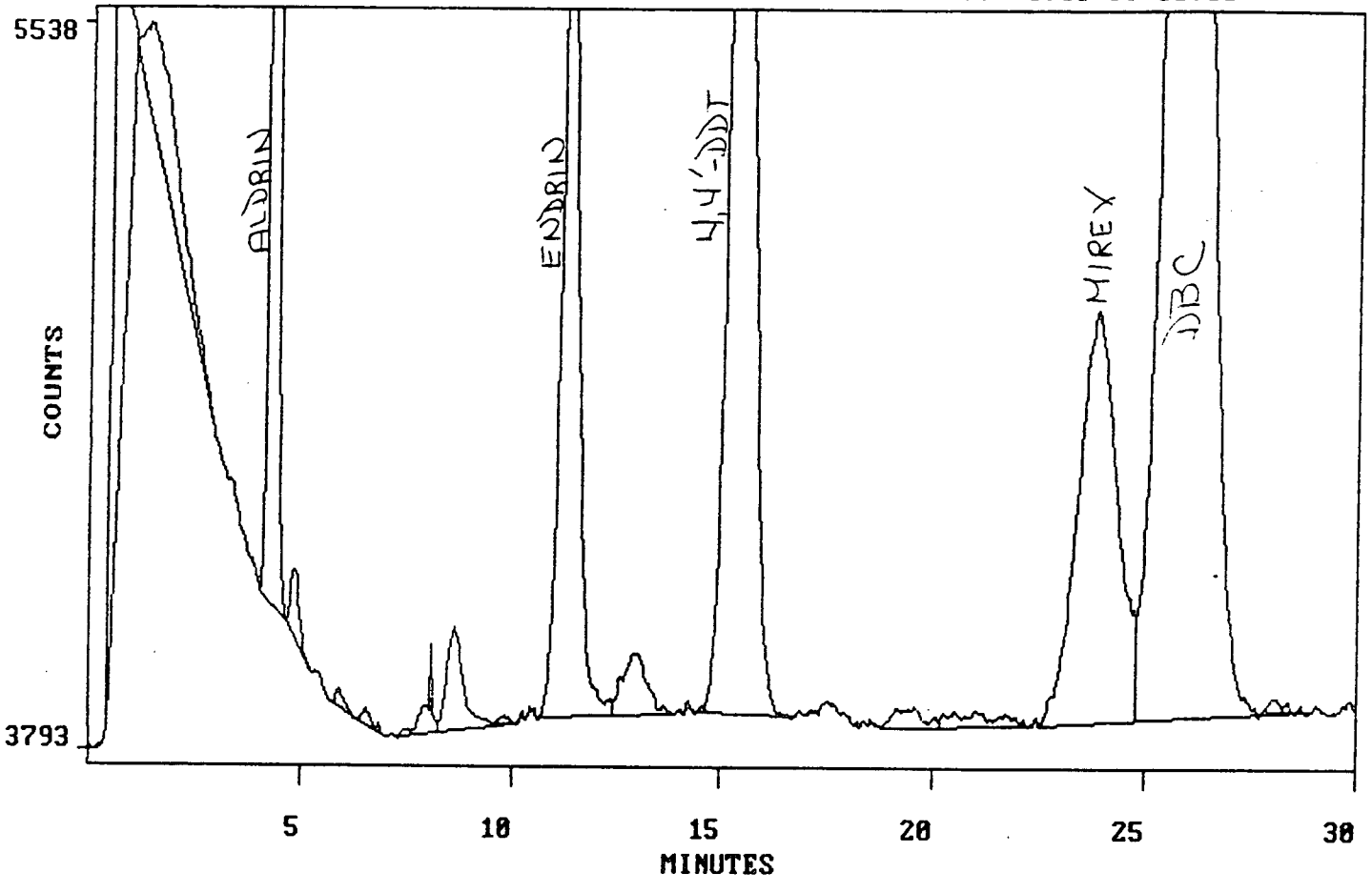
PS1722
EVALUATION STD MIX C
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:19:47:47 Date:WED 08 OCT 86

Time:11:13:29 Date:MON 06 OCT 86
Method:PEST2

FILE: PEST2245 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



c4

657

Channel #.....REINT Time:19:42:05 Date:WED 08 OCT 86

Sample name.....
Data file.....PEST2245
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....11:13:29 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
                  Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..17
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.583			91.005	6385928	906063	BB
2	1.375			0.209	14667	222	BB
3	4.303		ALDRIN	1.116	78276	6949	BB
4	4.838			0.030	2113	162	BB
5	6.553			0.007	502	36	BB
6	8.129			0.032	2250	130	BV
7	8.672		4,4'-DDE	0.097	6815	241	VE
8	11.362		ENDRIN	0.847	59444	2030	BV
9	13.009			0.086	6031	144	VB
10	15.457		4,4'-DDT	1.647	115568	3082	BB
11	19.598			0.031	2166	46	BV
12	21.117			0.037	2579	31	VB
13	23.933		MIREX	0.922	64668	963	BV
14	26.002		DBC	3.921	275158	4159	VE
15	28.172			0.013	918	33	EB
TOTALS				100.000	7017083		

658

PS 1723.

EVALUATION STD MIX I

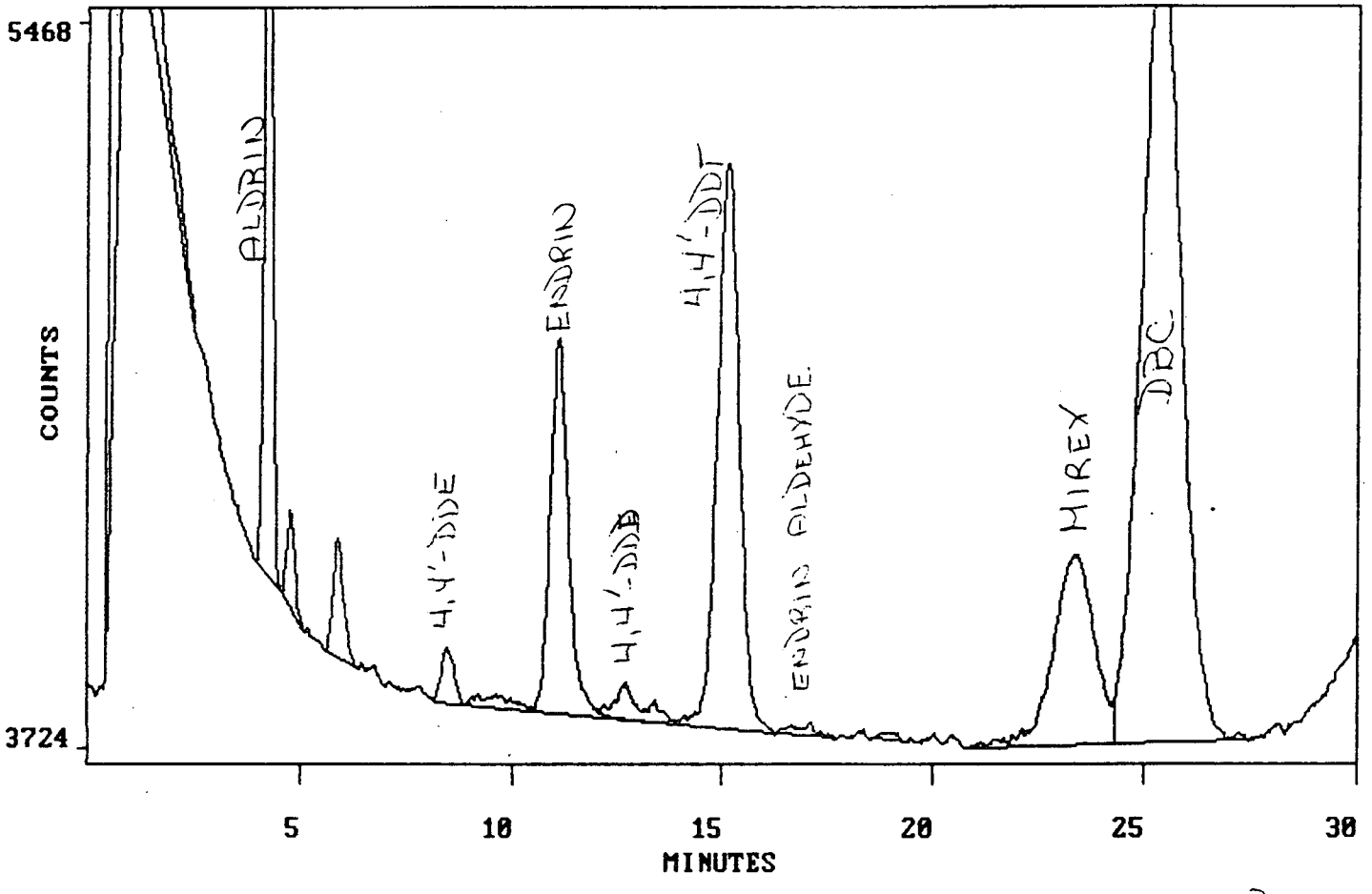
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:19:02 Date:WED 08 OCT 86

Time:20:09:54 Date:MON 06 OCT 86
Method:PEST2

FILE: PEST2260 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



1.2

Channel #.....4 Time:20:40:27 Date:MON 06 OCT 86
Run #6 of 100

Sample name.....
Data file.....DAT257:PEST2260
Method name.....PEST2

Author .....LAL
Instrument.....ECD
Column.....1.5% OV-17 + 1.95% OV-210 on 100/120 CHROMOSORB WHP
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....20:09:54 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..14
Vol Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.610			95.638	6923038	871778	BB
2	0.914			0.424	30727	1588	BB
3	4.242		ALDRIN	0.506	36642	3309	BB
4	4.768			0.038	2745	232	BB
5	5.888			0.066	4744	280	BB
6	8.501		4,4'-DDE	0.038	2739	129	BV
7	9.225			0.022	1626	25	VV
8	11.156		ENDRIN	0.366	26492	876	VE
9	12.741		4,4'-DDD	0.049	3539	77	EV
10	15.176		4,4'-DDT	0.698	50500	1346	VB
11	17.117		ENDRIN ALDEHYDE	0.015	1062	25	BB
12	23.452		MIREX	0.438	31688	444	BV
13	25.467		DBC	1.702	123234	1883	VB
TOTALS				100.000	7238776		

660

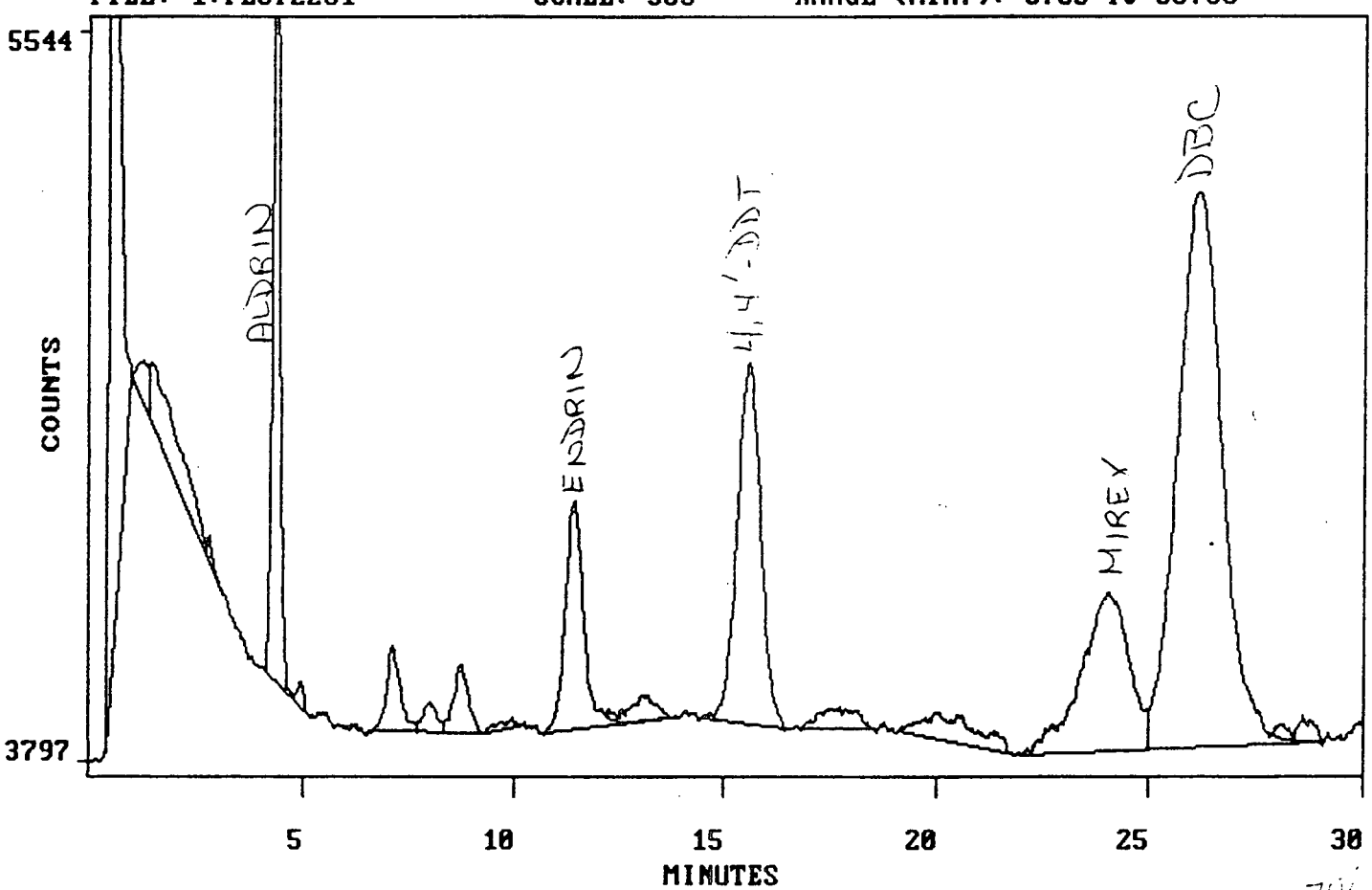
PS 1723
EVALUATION MIX B
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:13:24:42 Date:TUE 07 OCT 86

Time:12:53:12 Date:TUE 07 OCT 86
Method:PEST2

FILE: 1:PEST2261 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



1.79

199

Channel #.....4 Time:13:23:44 Date:TUE 07 OCT 86
Run #1 of 100

Sample name.....
Data file.....DAT258:PEST2261
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time .....30.00 min. Delay time...0.00 min.
Acq. time.....12:53:12 Acq. date....TUE 07 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..19
Vol Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.587			95.560	5060859	911077	BB
2	1.317			0.032	1705	104	BV
3	1.509			0.140	7419	146	VV
4	4.367		ALDRIN	0.469	24816	2211	BV
5	4.952			0.012	626	66	VB
6	7.116			0.090	4766	202	BV
7	8.024			0.031	1666	70	VV
8	8.771			0.075	3957	163	VB
9	9.976			0.012	640	20	BB
10	11.488		ENDRIN	0.318	16842	542	BE
11	13.164			0.049	2618	55	EB
12	15.621		4,4'-DDT	0.630	33354	856	BB
13	17.656			0.059	3142	48	BB
14	20.068			0.114	6038	62	BB
15	24.135		MIREX	0.566	29967	370	BV
16	26.216		DBC	1.790	94820	1326	VE
17	28.152			0.020	1069	35	EV
18	28.737			0.032	1687	48	EB
TOTALS				100.000	5295991		

662

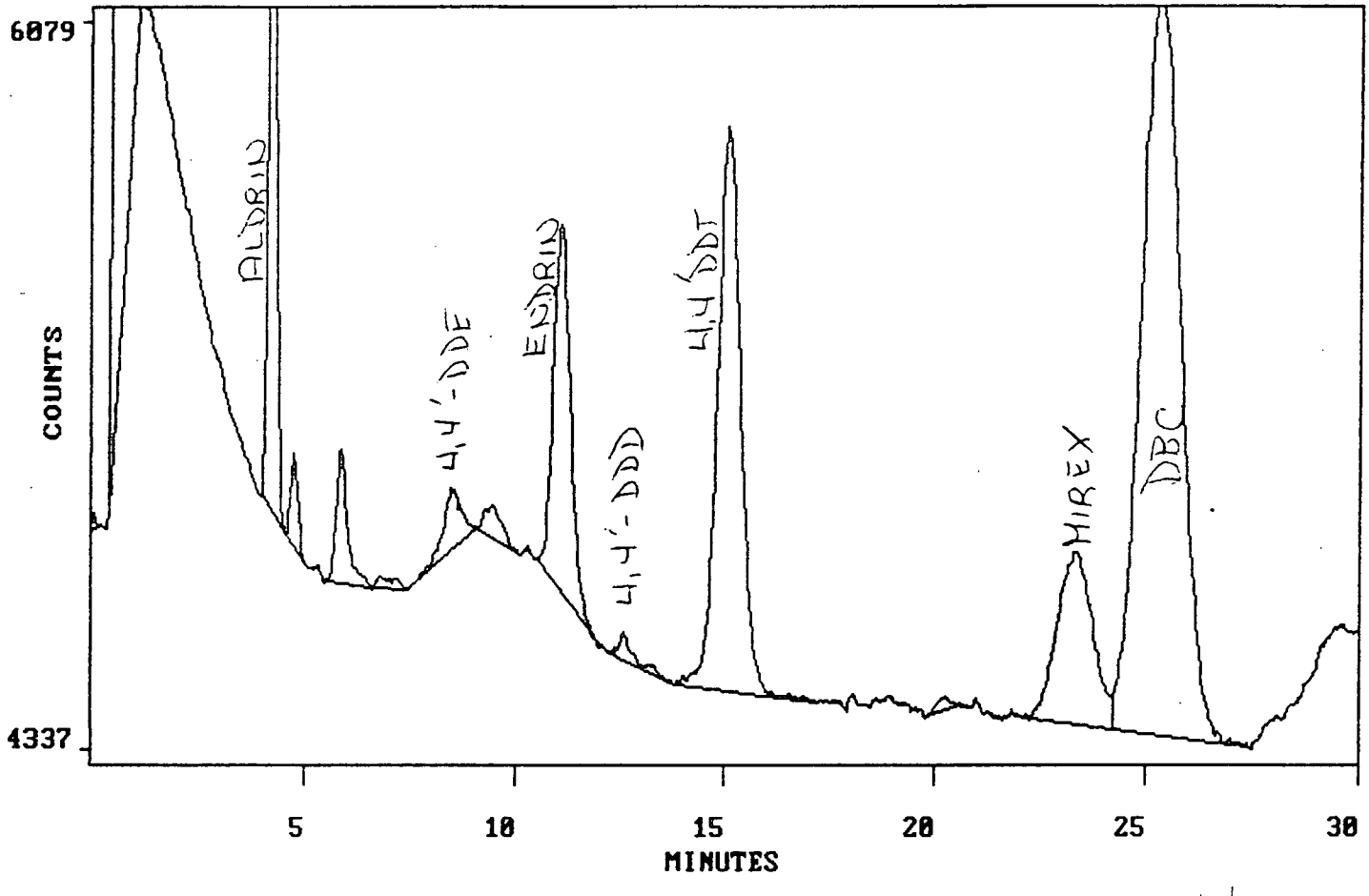
PS1723
EVALUATION STD MIX B
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:21:28:30 Date:TUE 07 OCT 86

Time:20:51:22 Date:TUE 07 OCT 86
Method:PEST2

FILE: 1:PEST2271 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



14

Channel #.....REINT Time:21:27:34 Date:TUE 07 OCT 86

Sample name.....
Data file.....1:PEST2271
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....~~6~~ 1.5% OV-17 ~~on~~ + 1.95% OV-210 on 100/120 CHROMOSORB WHP
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....20:51:22 Acq. date....TUE 07 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..14
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.583			96.055	6474008	892534	BB
2	4.235		ALDRIN	0.510	34366	3105	BB
3	4.753			0.038	2554	227	BB
4	5.873			0.088	5936	319	BB
5	6.813			0.011	769	27	BB
6	8.550		4,4'-DDE	0.064	4333	141	BB
7	9.478			0.032	2152	77	BB
8	11.129		ENDRIN	0.362	24376	873	BB
9	12.640		4,4'-DDD	0.021	1425	62	BB
10	15.139		4,4'-DDT	0.764	51520	1340	BB
11	20.272			0.010	666	28	BB
12	23.427		MIREX	0.352	23730	397	BV
13	25.409		DBC	1.693	114089	1768	VB
TOTALS				100.000	6739924		

10%

663

PS 1723

Eval. Std.

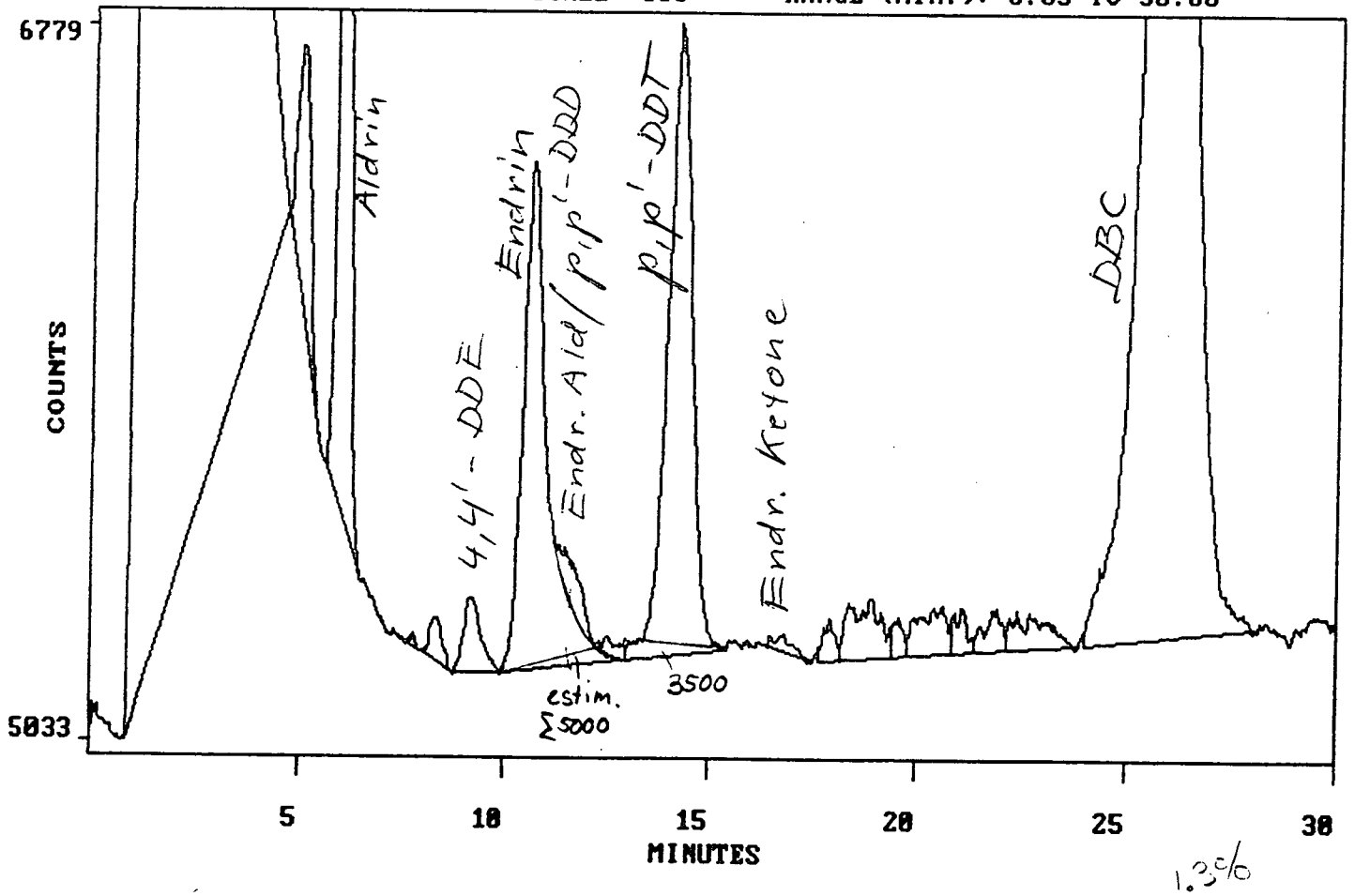
CONFIRMATORY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:29:28 Date:WED 08 OCT 86

Time:08:52:33 Date:WED 08 OCT 86
Method:PEST2

FILE: 1:PEST2~~274~~ 73 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



1.3%

Channel #.....4 Time:09:23:13 Date:WED 08 OCT 86
Run #2 of 100

Sample name.....NJDEP 73
Data file.....DAT258:PEST22~~74~~
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Breakdown:
DDT: $\frac{20 pg}{520 pg} = 3.8\%$
Endr.: $\frac{11.3 pg}{285.8 pg} = 4.0\%$
$\sum \frac{31.3 pg}{800 pg} = 3.9$

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....08:52:33 Acq. date....WED 08 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..19
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

pp DDD area estim 1300 → 6.1 ng
Endr. Ald. " " 1300 → 6.1 ng

AREA PERCENT REPORT

	Peak	R.T.(min)	R/S	Peak name	RF	Area %	Area	Peak Ht.	BL
	1	1.246				97.452	19256791	873057	BB
	2	4.956				0.068	13446	615	BB
Aldrin	3	6.005			258.8	0.327	64692	3659	BB
	4	8.363				0.011	2204	106	BB
p,p-DDE	5	9.227	13.8 ng			0.027	5390	182	BB
Endrin	6	10.671	274.5 pg		203.4	0.283	55841 - 5000 = 50841	1233	BE
	7	12.553				0.007	1313	47	EV
DDT	8	14.228	500 pg	<	117.7	0.316	62356 - 3500 = 58856	1531	VB
E.ket.	9	16.841	5.1 pg			0.005	1064	40	BB
	10	17.952				0.012	2392	86	BV
	11	18.975				0.037	7341	138	VV
	12	19.613				0.009	1788	88	VV
	13	20.501				0.028	5628	107	VV
	14	21.095				0.011	2272	92	VV
	15	21.977				0.015	3061	95	VV
	16	22.889				0.025	4854	76	VB
	17	25.982			207.6	1.366	269936	3514	BB
	TOTALS					100.000	19760369		

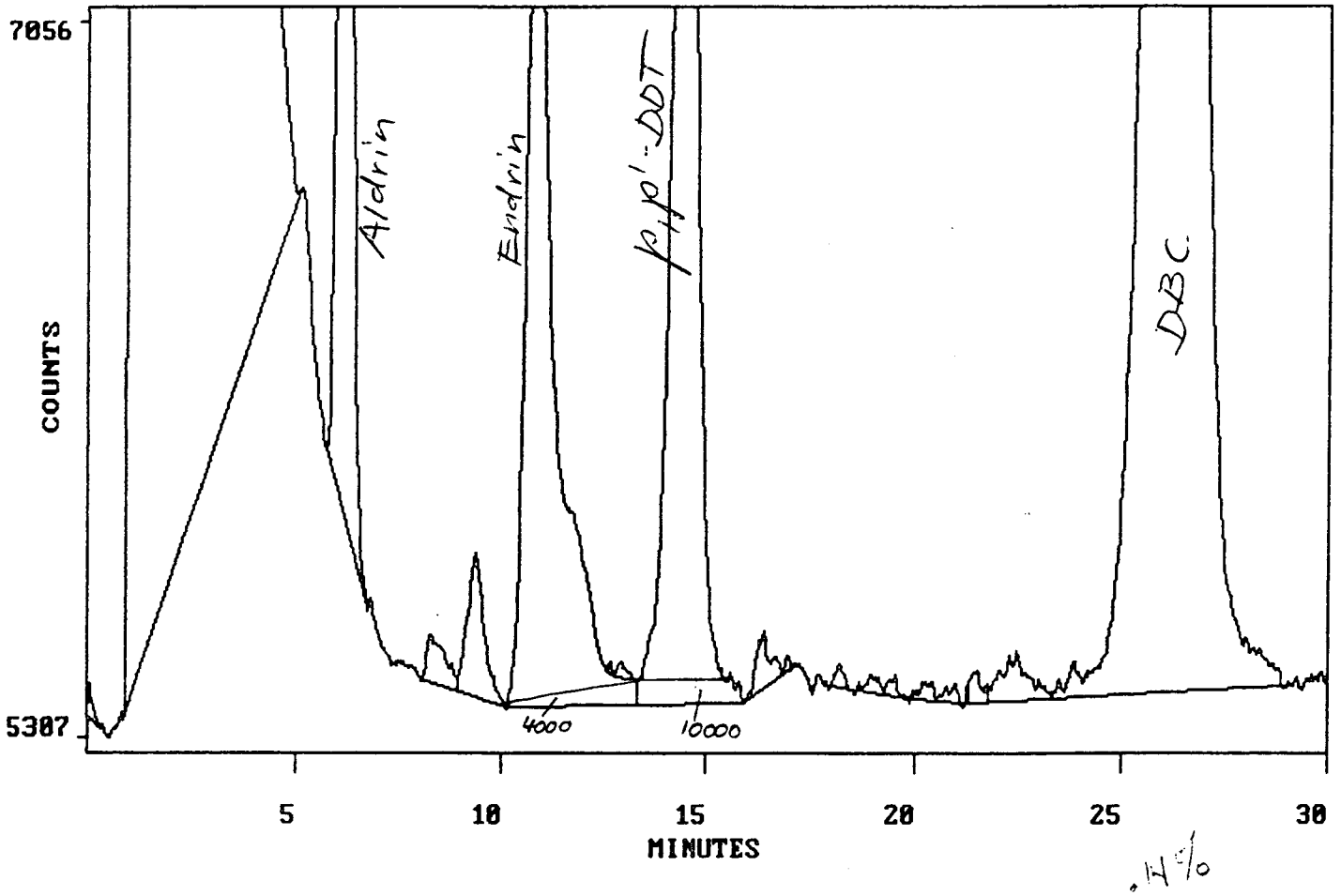
Eval. Std.
PS 1722
CONFIRMATORY
COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:57:37 Date:WED 08 OCT 86

Time:09:24:31 Date:WED 08 OCT 86
Method:PEST2

FILE: 1:PEST2~~275~~ 74 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



.14%

Channel #.....4 Time:09:55:00 Date:WED 08 OCT 86
Run #3 of 100

Sample name.....NJDEP 74
Data file.....DAT258:PEST22~~75~~
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....09:24:31 Acq. date....WED 08 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..16
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	RF	Area %	Area	Peak Ht.	BL
1	0.101				0.003	682	83	BB
2	1.317				96.387	24628905	874803	BB
3	6.140			249.2	0.488	124598	6662	BB
4	8.326				0.014	3646	112	BV
5	9.399				0.039	9844	347	VB
6	10.860			211.1	0.429	109532 - 4000 =	2310	BE
7	12.931				0.003	675 105532	35	EV
8	14.457			120.7	0.511	130653 - 10000 =	3090	VB
9	16.390				0.013	3196 120653	127	BV
10	18.267				0.003	749	51	BB
11	19.080				0.006	1632	41	BB
12	20.327				0.007	1760	40	BB
13	21.510				0.007	1705	69	BV
14	22.498				0.021	5419	105	VV
15	26.276			203.5	2.071	529198	6754	VB
TOTALS					100.000	25552194		

667

PS 1724 (II)

Eval Std.

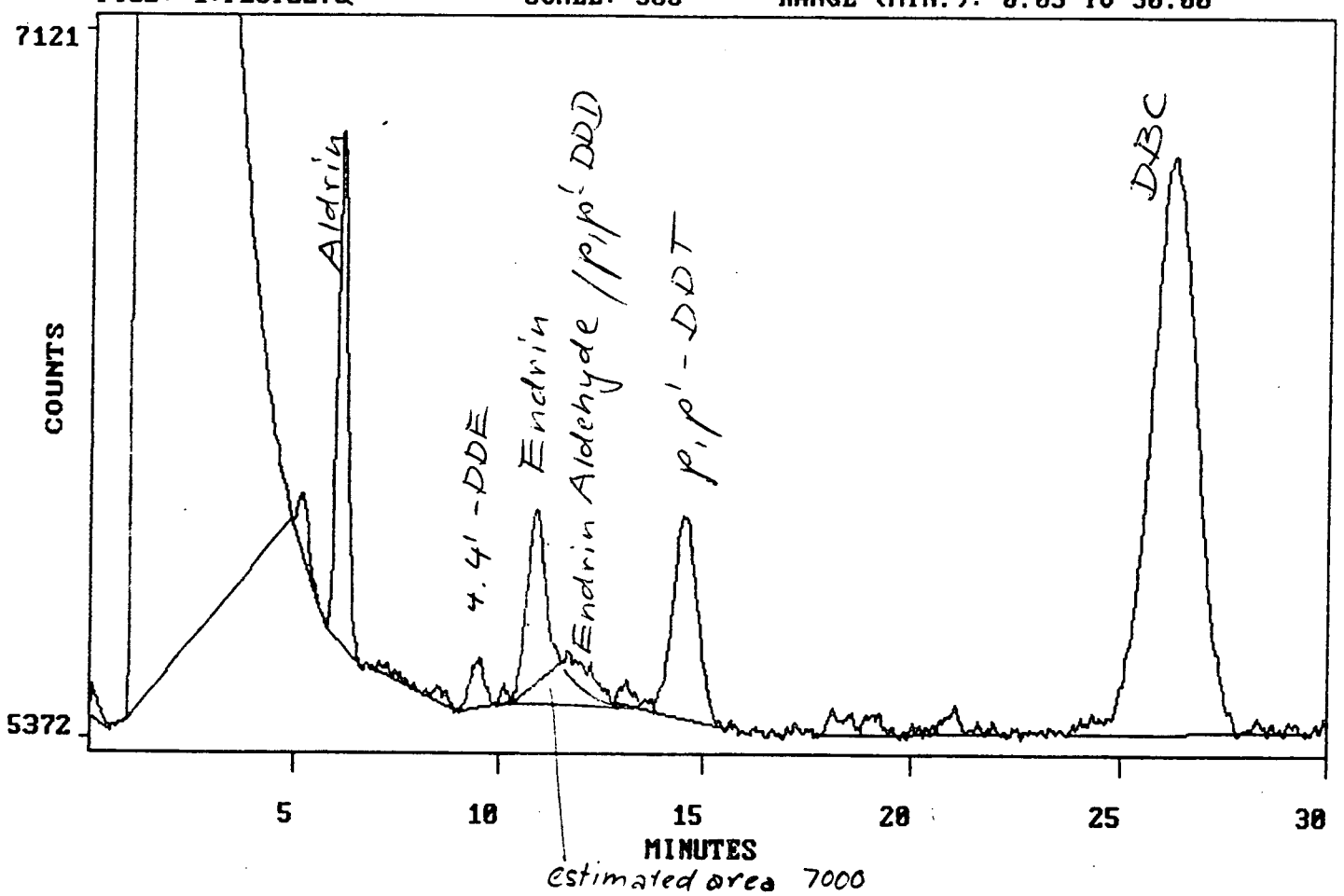
CONFIRMATORY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:10:39:11 Date:WED 08 OCT 86

Time:10:07:24 Date:WED 08 OCT 86
Method:PEST2

FILE: 1:PEST2275 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



Channel #.....4 Time:10:38:04 Date:WED 08 OCT 86
Run #1 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2~~223~~ 75
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....10:07:24 Acq. date....WED 08 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..16
Vol Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	RF	Area %	Area	Peak Ht.	BL
1	0.100				0.006	1087	83	BB
2	1.287				98.944	18536286	874773	BB
3	5.203				0.012	2322	147	BB
4	6.171		6%	228.6	0.122	22858	1255	BB
5	7.130				0.004	732	21	BV
6	8.576				0.004	732	37	VB
7	9.577				0.015	2816	123	BB
8	10.929		2%	201.7	0.070	13172 +7000 = 20172	425	BB
9	13.128				0.010	1904	60	BV
10	14.560		[illegible]	107.6	0.115	21520	502	VB
11	18.163				0.011	2094	57	BV
12	19.152				0.040	7504	44	VV
13	21.126				0.040	7470	64	VB
14	26.313		3%	216.5	0.601	112575	1413	BE
15	28.373				0.006	1111	27	EB
TOTALS					100.000	18734183		

69

PS1723

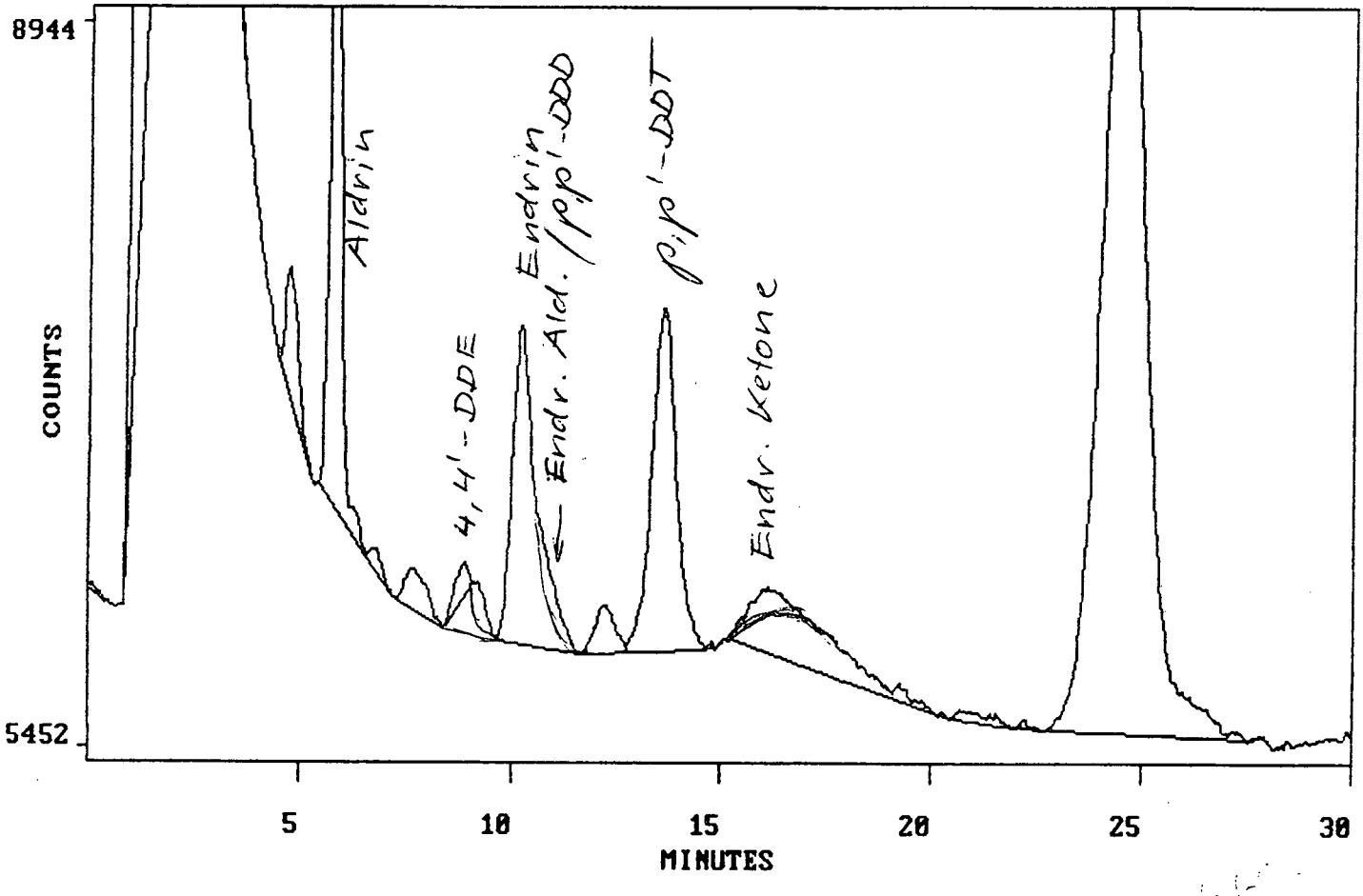
Eval. Std.
CONFIRMATORY
COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:18:40:23 Date:WED 08 OCT 86

Time:18:08:02 Date:WED 08 OCT 86
Method:PEST2

FILE: 1:PEST2286 SCALE: 250 RANGE (MIN.): 0.03 TO 30.00



Channel #.....4 Time:18:38:39 Date:WED 08 OCT 86
Run #11 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2286
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Breakdown

DDT : 20.5pg / 520.5pg = 3.9%

Endr. 24.9pg / 300pg = 8.1%

Σ 45.4pg / 820.8pg = 5.5%

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....18:08:02 Acq. date....WED 08 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..17
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

Endr. Ald — (low)
pp DDD — (low)
Endr. Ketone estim. area 5000 → 24.9 pg

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %		Area	Peak Ht.	BL
1	0.094			0.003	pg	536	40	BB
2	1.188			96.597		17346560	870482	BB
3	2.361			0.063		11352	1141	BB
4	3.387			0.014		2560	334	BB
5	4.722			0.068		12264	612	BB
6	5.768			0.378		67916	3859	BB
7	6.731			0.009		1700	91	BB
8	7.693	~~4,4' DDE~~		0.040		7172	199	BB
9	8.893	4,4'-DDE	est. area 8000	0.023	20.5	4070	165	BB
10	10.240	Endr.		0.353	~270	63344	1524	BB
11	12.226			0.042		7563	227	BV
12	13.629	p,p' DDT		0.373	500	66986	1649	VB
13	16.188			0.238		42781	306	BB
14	20.790			0.016		2804	50	BB
15	22.281			0.003		512	31	BB
16	24.584			1.779		319472	4340	BB
TOTALS				100 000		17957592		

PS 1723

EVALUATION STD
MIX B

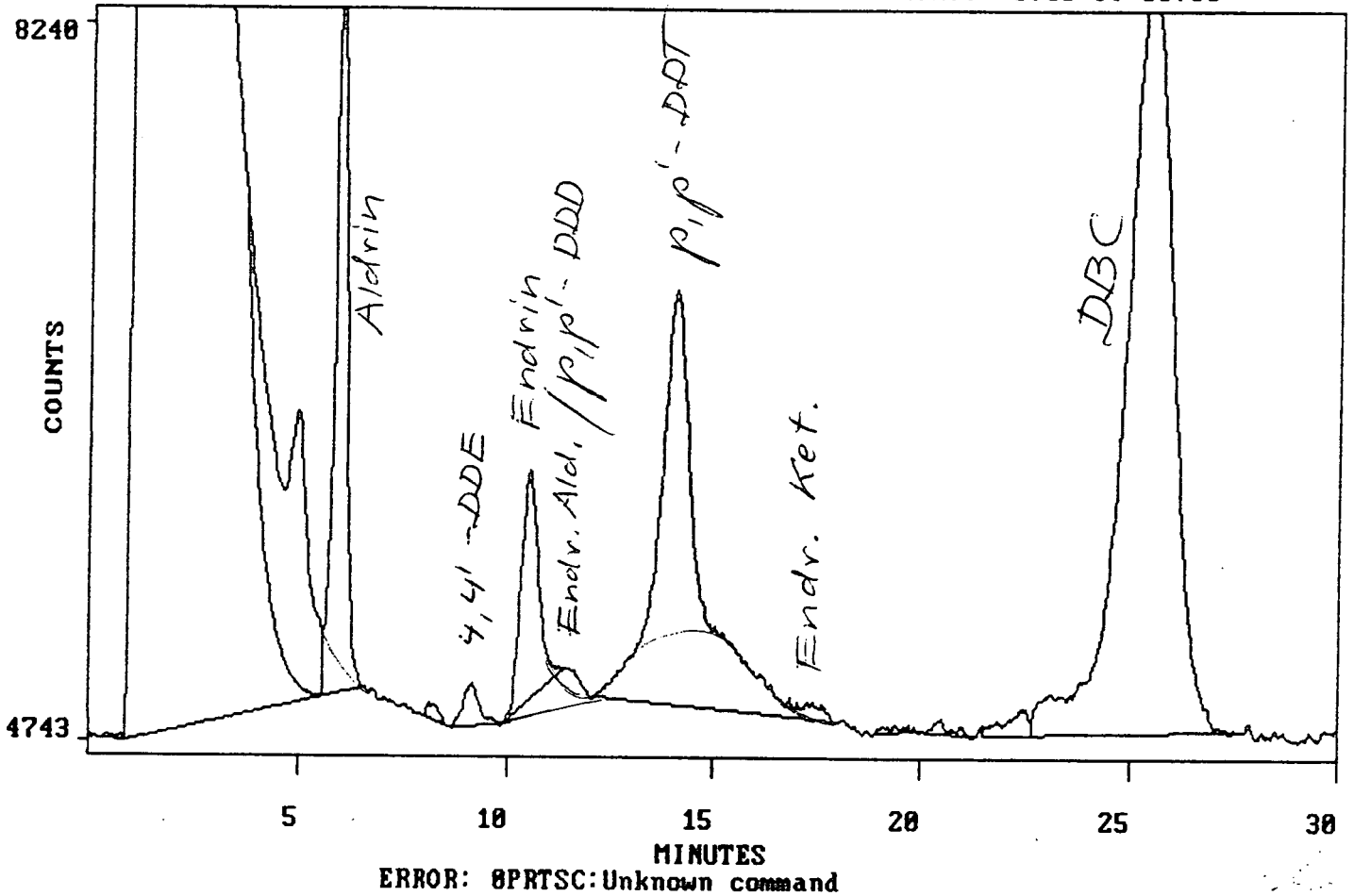
CONFIRMATORY
COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:13:03:40 Date:THU 09 OCT 86

Time:12:30:11 Date:THU 09 OCT 86
Method:PEST2

FILE: 1:PEST2300 SCALE: 250 RANGE (MIN.): 0.03 TO 30.00



ERROR: 8PRTSC:Unknown command

Channel #.....4 Time:13:00:47 Date:THU 09 OCT 86
Run #8 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2300
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Breakdown

DDT : $\frac{26.4}{526.4}$ = 5.0%

End. $\frac{24.1}{300}$ = 8.0%

Σ $\frac{50.5}{826}$ = 6.1%

Run time.....30.00 min.
Acq. time.....12:30:11
Start PW.....20.00 sec.

Delay time...0.00 min.
Acq. date....THU 09 OCT 86
End PW.....150.00 sec.
Actual PW....140.0

Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..13
Vol. Inj.....5.0 ul
Conv. factor...1.000

Sample amount..1.000

METHOD NOT CALIBRATED!

Endr. Ald area (est) 2500 → 11.7 pg
p,p' - DDD " 2500 → " pg
Endr. Ketone " 2500 → 12.4 pg

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	1.261			96.904	20216211	874474	BE
2	4.964			0.402	83934	1324	EV
3	5.942	ALDRIN		0.346	72274	3810	VB
4	8.158			0.007	1470	69	BB
5	9.174	DDE	14.7 pg	0.027	5724	200	BB
6	10.561	ENDRIN	~270	0.160	33448	1103	BB
7	14.085	DDT	500 pg	0.681	142055	2007	BB
8	19.196			0.006	1259	31	BB
9	20.525			0.008	1702	62	BB
10	22.518			0.029	6010	123	BV
11	25.521	DEC		1.428	297928	3662	VB
TOTALS				100.000	20862015		

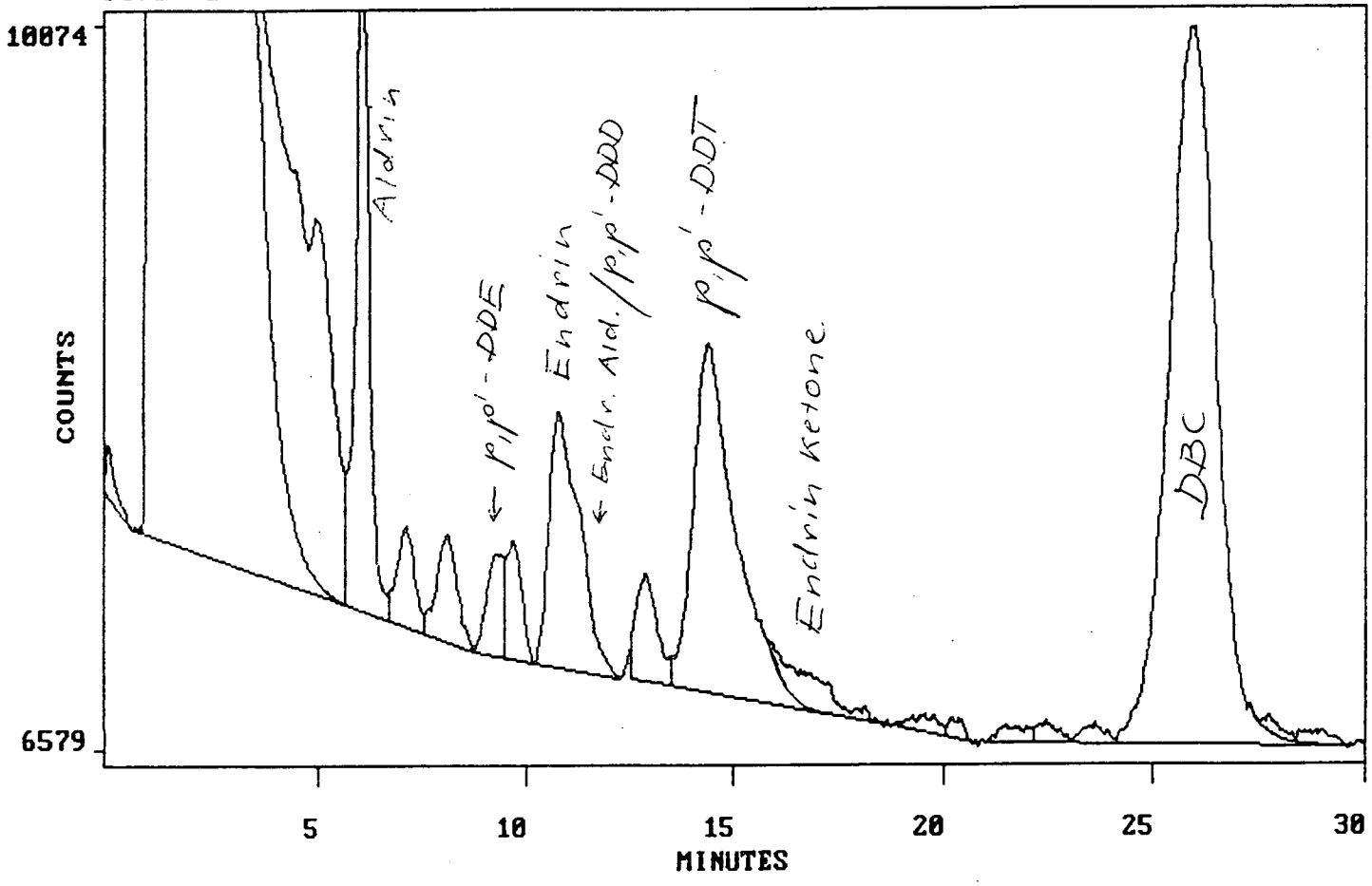
PS1723
EVALUATION STD MIX B
CONFIRMATORY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:46:48 Date:FRI 10 OCT 86

Time:20:45:03 Date:THU 09 OCT 86
Method:PEST2

FILE: 1:PEST2312 SCALE: 250 RANGE (MIN.): 0.03 TO 30.00



Sample name.....
Data file.....1:PEST2312
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....20:45:03 Acq. date....THU 09 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
                  Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..20
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.113			0.017	3705	252	BB
2	1.285			96.384	20781478	872960	BE
3	4.935		ALDRIN	0.628	135493	1743	EV
4	6.071			0.365	78742	3493	VV
5	7.125			0.067	14394	483	VV
6	8.135			0.082	17777	512	VB
7	9.313		4,4'-DDE	0.067	14374	490	BV
8	9.715			0.062	13386	568	VB
9	10.775		ENDRIN	0.295	63708	1237	BB
10	12.910			0.086	18592	500	BV
11	14.434		4,4'DDT	0.624	134509 - 10,000	1677	VB
12	19.559		ENDRIN KETONE	0.017	3593	78	BV
13	20.283			0.011	2270	89	VB
14	21.537			0.017	3667	76	BV
15	22.464			0.016	3456	97	VV
16	23.667			0.016	3517	89	VV
17	25.990		DBC	1.216	262187	3442	VE
18	27.766			0.014	2969	78	EV
19	29.042			0.016	3452	68	EB
TOTALS				100.000	21561269		

675

PS1725

INDIVIDUAL STANDARDS MIX A

PRIMARY COLUMN

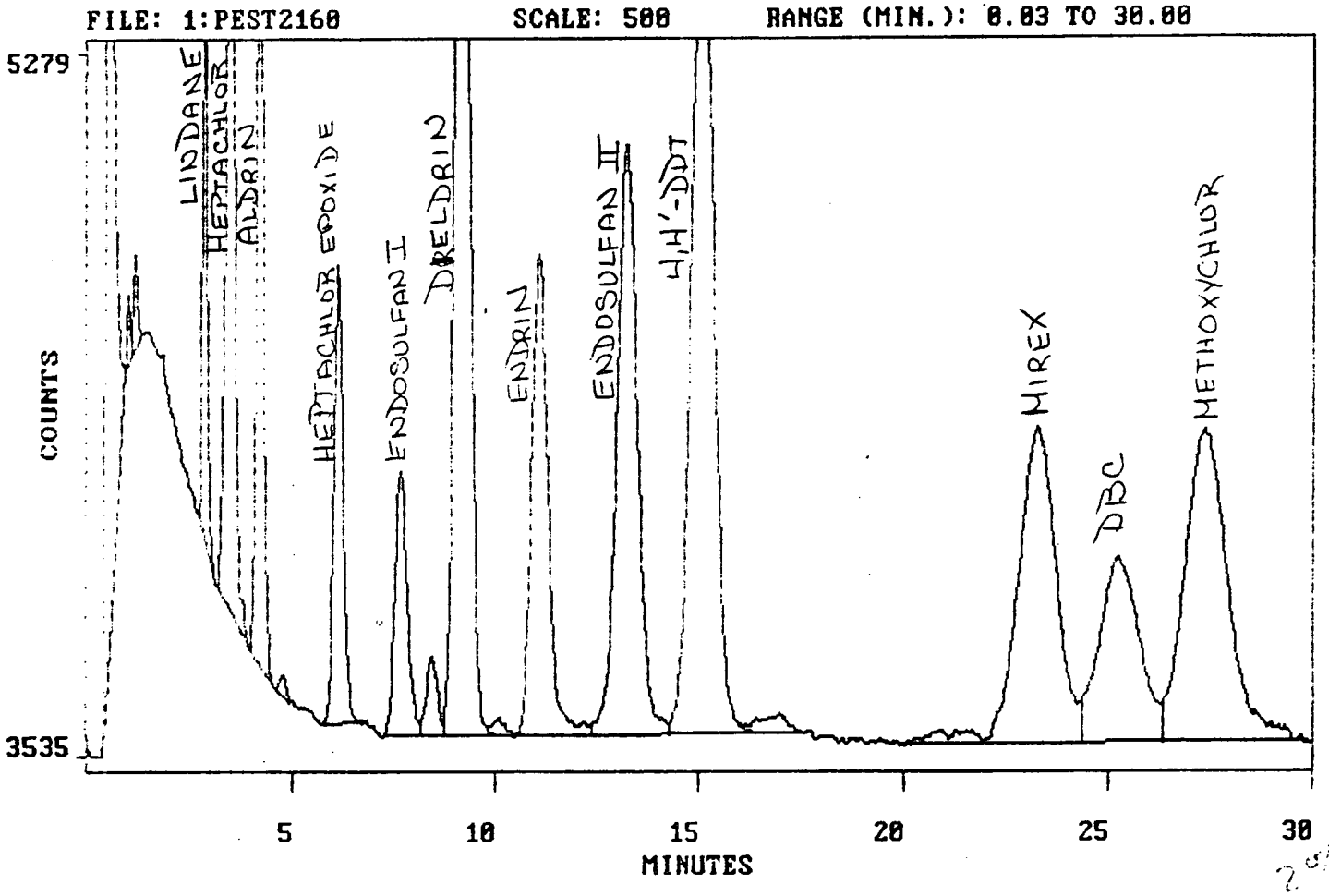
Time: 11 [illegible] Date: MON 29 SEP [illegible]

RECONSTRUCT SCREEN DUMP

Data Acquisition

Time: 10 [illegible] Date: MON 29 SEP [illegible]

Method: [illegible]



?

Channel #.....4 Time:11:19:08 Date:MON 29 SEP 86
Run #4 of 100

Sample name.....NJDEP
Data file.....DAT255:PEST2160
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time..0.00 min.
Acq. time.....10:48:24 Acq. date...MON 29 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject ..500
peaks found..19
V. Inj ..5.0 ul Sample amount .1.000
Conv. factor ..1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R T (min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.560			90.790	4914486	879711	EB
2	1.068			0.014	751	160	BV
3	1.234			0.023	1245	228	VB
4	2.914		LINDANE	0.204	11056	1505	BB
5	3.529		HEPTACHLOR	0.621	34176	3011	BB
6	4.228		ALDRIN	0.417	22554	2109	BB
7	6.150		HEPTACHLOR EPOXIDE	0.325	17590	1113	EB
8	7.685		ENDOSULFAN I	0.254	13763	646	BV
9	8.486			0.069	3745	189	VV
10	9.234		DIELDRIN	1.537	85894	3798	VE
11	10.148			0.014	782	38	EB
12	11.132		ENDRIN	0.607	32880	1171	BV
13	13.204		ENDOSULFAN II	0.921	49842	1449	VV
14	15.133		4,4'-DDT	1.547	83760	2256	VE
15	17.802			0.039	2130	42	EB
16	23.350		MIREX	0.959	51917	772	BV
17	25.947		DBC	0.577	30700	446	VV
18	27.445		METHOXYCHLOR	1.030	55772	767	VB
TOTALS				100.000	5413843		

622

PS1726

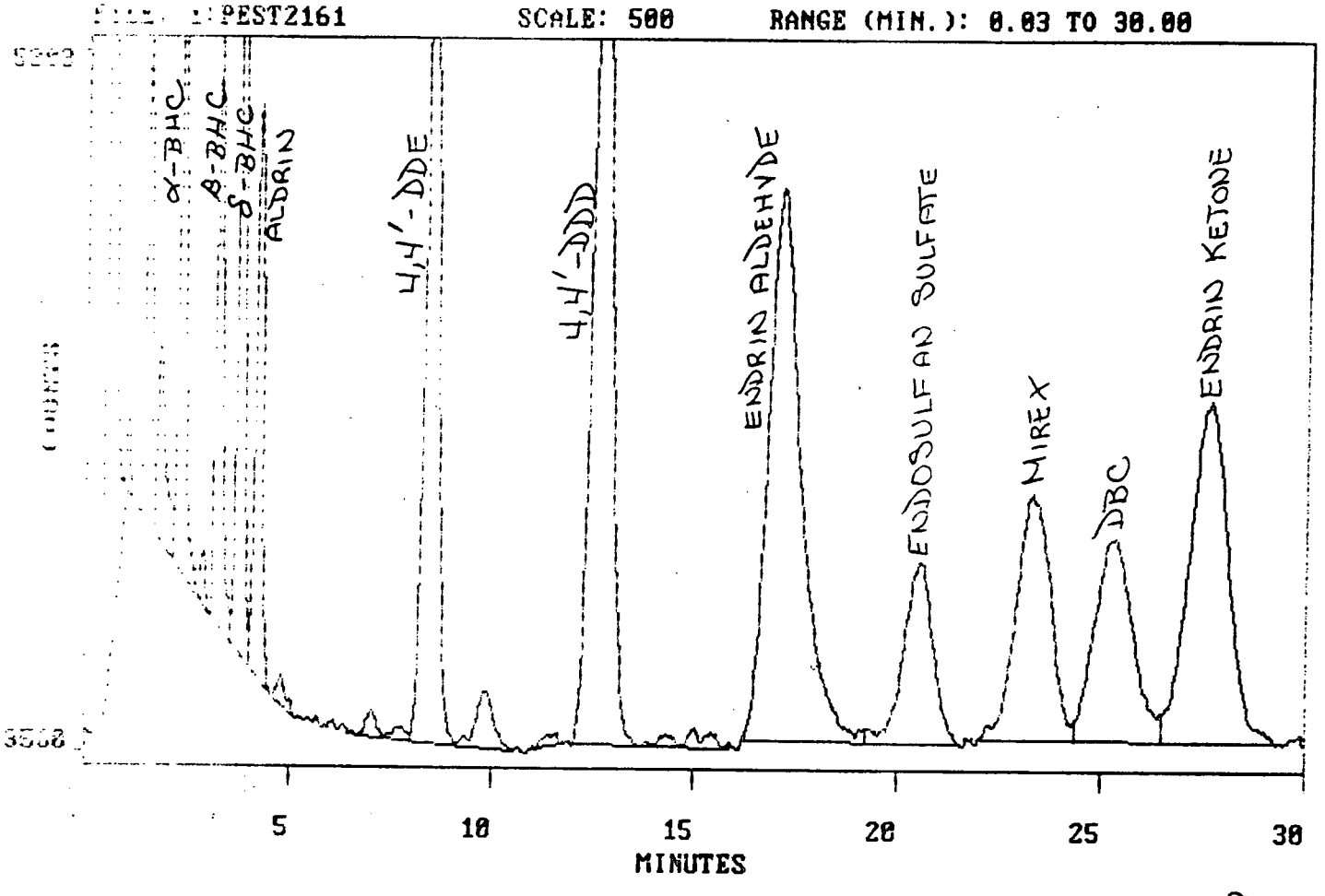
INDIVIDUAL STANDARDS MIX B

PRIMARY COLUMN

Time:20:04:54 Date:MON 29 SEP 86

Time:12:07:16 Date:MON 29 SEP 86

Method:PEST2



19

678

Channel #.....4 Time:12:37:51 Date:MON 29 SEP 86
Run #1 of 100

Sample name.....NJDEP
Data file.....DAT255:PEST2161
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....12:07:16 Acq. date....MON 29 SEP 86
Start PW.....20.00 sec. End PW .....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..23
Vol. Inj. ....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.559			90.711	4576463	887463	BB
2	1.064			0.021	1047	210	BV
3	1.531			0.215	10860	1627	VV
4	1.836			0.138	6941	508	VV
5	2.353		α-BHC	0.471	23776	3304	VE
6	2.895			0.028	1434	133	EB
7	3.246		β-BHC	0.330	16668	1793	BV
8	3.773		δ-BHC	0.605	30544	3154	VV
9	4.221		ALDRIN	0.319	16076	1442	VB
10	4.787			0.021	1074	72	BB
11	7.030			0.025	1249	66	BV
12	7.786			0.017	855	34	VV
13	8.492		4,4'-DDE	0.996	50247	2349	VV
14	9.895			0.089	4503	141	VB
15	11.613			0.014	718	25	BB
16	12.680		4,4'-DDD	1.506	75972	2469	BE
17	14.355			0.013	678	26	EV
18	15.030			0.026	1315	44	VB
19	17.153		ENDRIN ALDEHYDE	1.522	76778	1356	BV
20	20.600		ENDOSULFAN SULFATE	0.443	22328	449	VB
21	23.401		MIREX	0.734	37028	602	BV
22	25.377		DDT	0.663	33425	500	VV

679

33	27 716	ENDRIN KETONE	1.093	55119	834 VB
TOTALS			100.000	5045098	

680

PS1725

INDIVIDUAL STD MIX A

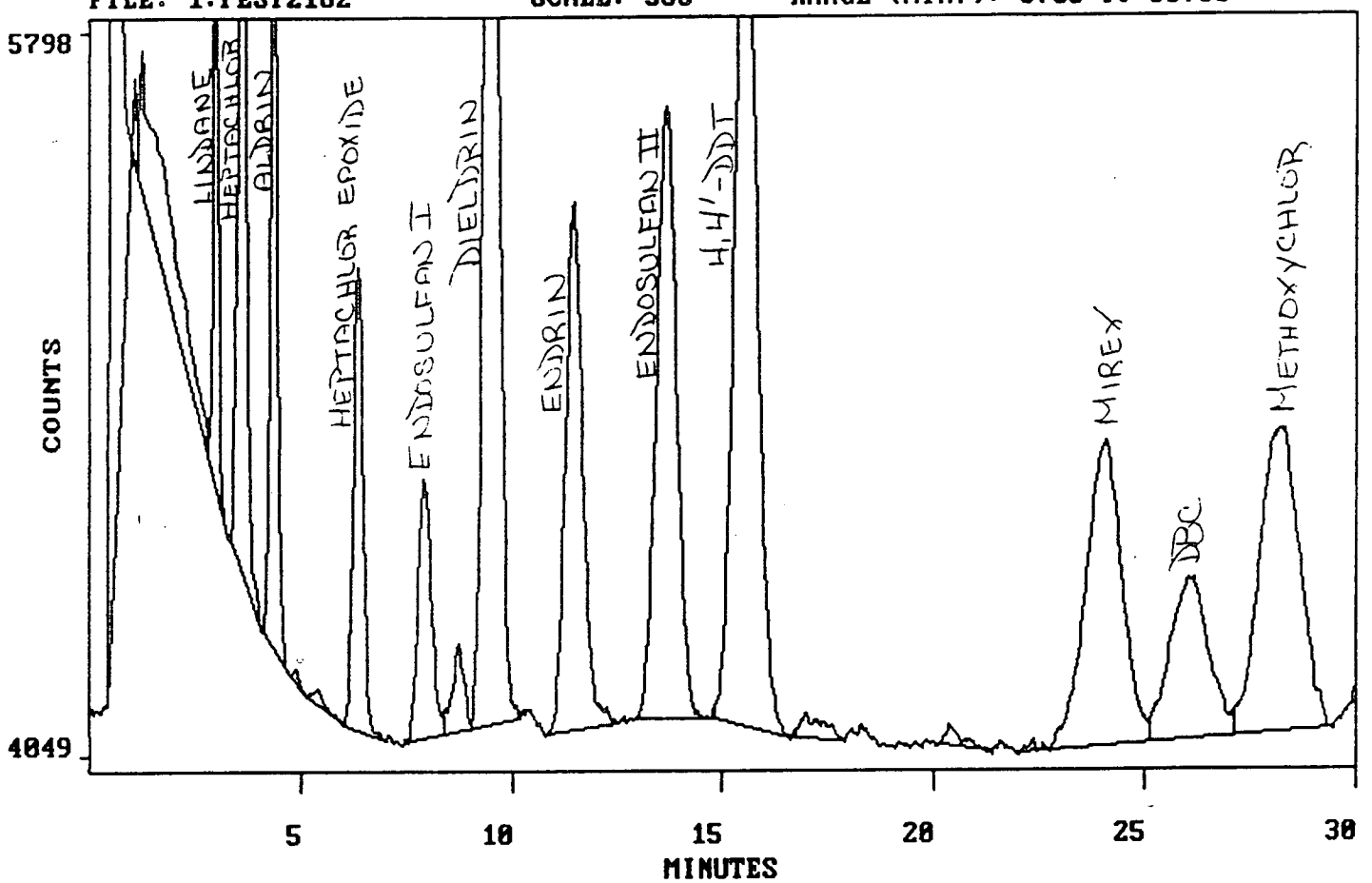
PRIMARY COLUMN

Time:16:03:53 Date:TUE 30 SEP 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:15:19:43 Date:TUE 30 SEP 86
Method:PEST2

FILE: 1:PEST2182 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



681

Channel #.....REINT Time:16:02:53 Date:TUE 30 SEP 86

Sample name.....NJDEP
Data file.....1:PEST2182
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....15:19:43 Acq. date....TUE 30 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0

Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..20
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.587			91.661	5431472	904947	BB
2	1.104			0.020	1183	198	BV
3	1.272		~~ETR~~	0.275	16294	338	VV
4	3.010		LINDANE	0.211	12528	1559	VB
5	3.646		HEPTACHLOR	0.544	32208	2800	BB
6	4.367		ALDRIN	0.373	22080	2023	BB
7	5.386			0.011	634	36	BB
8	6.351		HEPTACHLOR, EPOXIDE	0.300	17790	1097	BB
9	7.926		ENDOSULFAN I	0.238	14098	621	BV
10	8.746			0.071	4206	206	VV
11	9.527		DIELDRIN	1.426	84522	3621	VB
12	11.495		ENDRIN	0.605	35822	1252	BB
13	13.696		ENDOSULFAN II	0.839	49691	1456	BB
14	15.591		4,4'-DDT	1.378	81662	2151	BB
15	17.017			0.038	2240	53	BB
16	20.494			0.019	1143	42	BB
17	24.137		MIREX	0.759	44976	728	BV
18	26.175		DBC	0.411	24368	383	VV
19	28.275		METHOXYCLOR	0.821	48666	737	VB
TOTALS				100.000	5925583		

682

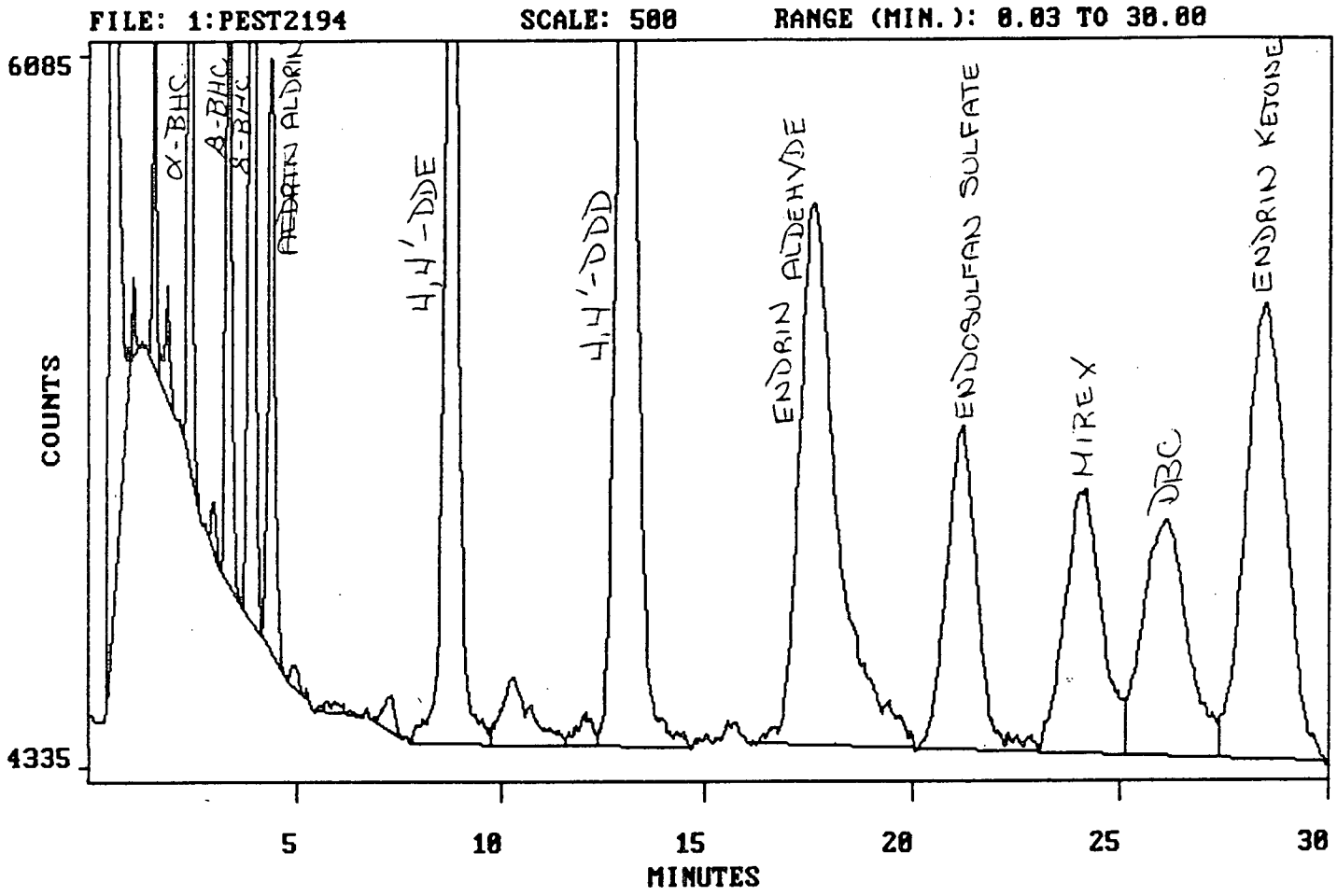
PS1726

INDIVIDUAL STD MIX B
PRIMARY COLUMN

Time:17:08:26 Date:THU 02 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:23:12:56 Date:TUE 30 SEP 86
Method:PEST2



1.1

683

Channel #.....4 Time:23:43:32 Date:TUE 30 SEP 86
Run #1 of 100

Sample name.....NJDEP
Data file.....DAT256:PEST2194
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....23:12:56 Acq. date....TUE 30 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0

Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..21
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.588			90.082	5018341	904810	BB
2	1.111			0.017	930	205	BB
3	1.596			0.121	6739	1410	BV
4	1.911			0.040	2253	280	VB
5	2.447		α-BHC	0.410	22821	3482	BB
6	3.019			0.015	822	129	BB
7	3.369		β-BHC	0.306	17052	1958	BB
8	3.914		δ-BHC	0.648	36100	3696	BB
9	4.383		ALDRIN	0.300	16690	1495	BB
10	4.881			0.013	722	53	BB
11	5.918			0.015	812	27	BB
12	7.261			0.027	1519	80	BB
13	8.787		4,4'-DDE	1.097	61138	2575	BV
14	10.307			0.140	7792	161	VV
15	12.076			0.038	2144	68	VV
16	13.087		4,4'-DDD	1.688	94020	2846	VB
17	17.664		ENDRIN ALDEHYDE	1.521	84736	1322	BV
18	21.249		ENDOSULFAN SULFATE	0.726	40471	778	VV
19	24.172		MIREX	0.720	40135	644	VV
20	26.146		DBC	0.753	41958	565	VV
21	28.504		ENDRIN-KETONE	1.322	73637	1105	VB

68A

PS 1725

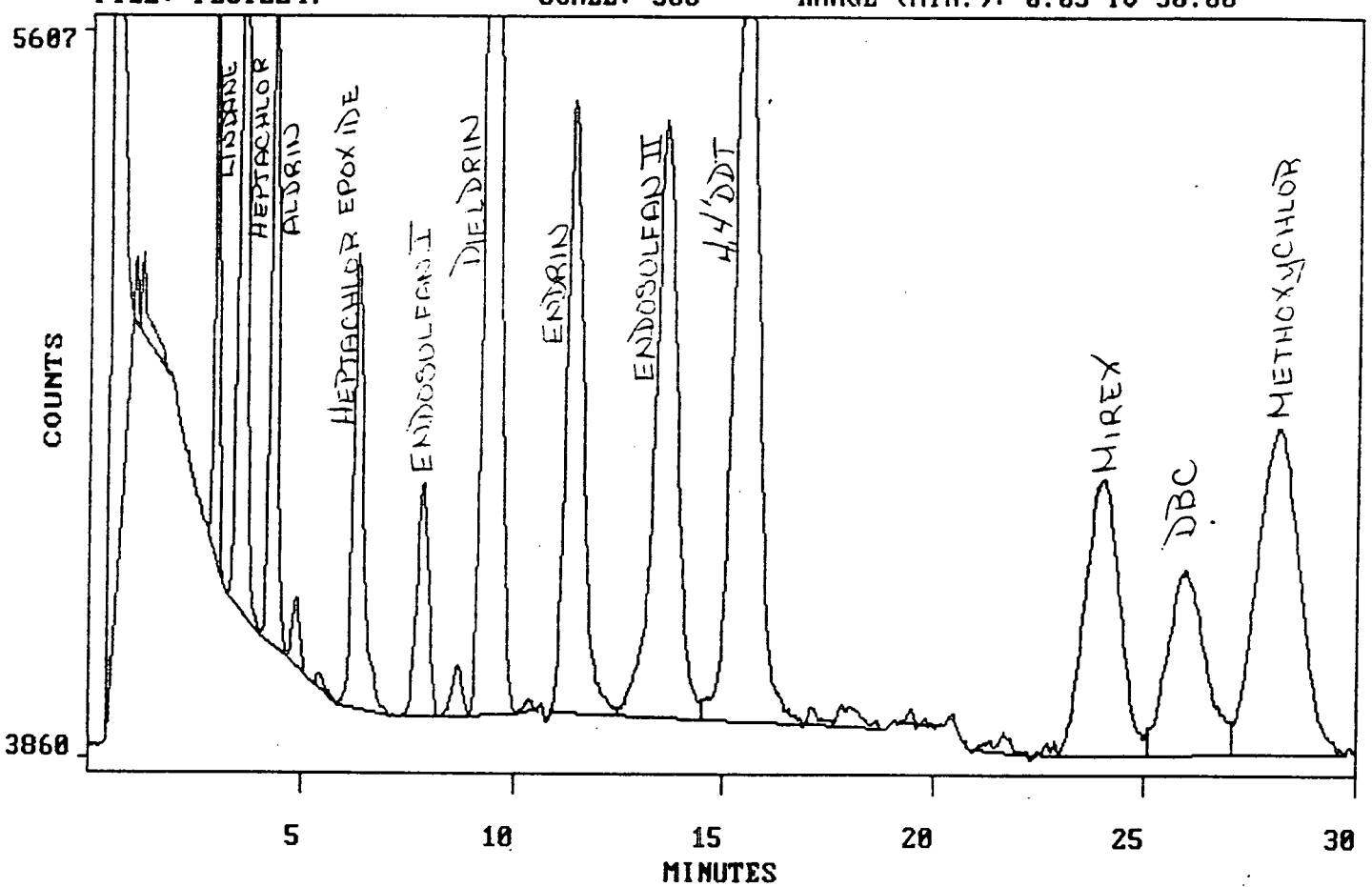
~~EVALUATION S~~
INDIVIDUAL STD MIX A
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:08:36:49 Date:WED 08 OCT 86

Time:12:31:54 Date:MON 06 OCT 86
Method:PEST2

FILE: PEST2247 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



085

Channel #.....4 Time:13:02:40 Date:MON 06 OCT 86
Run #1 of 100

Sample name.....
Data file.....DAT257:PEST2247
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....~~E~~ 1.5% OV-17/1.95% OV-210 on 100/120 CHROMOSORB WHP
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....12:31:54 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..23
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.584			91.753	5343633	941358	BB
2	1.089			0.013	781	167	BV
3	1.262			0.037	2152	196	VB
4	2.989		LINDANE	0.190	11065	1482	BB
5	3.622		HEPTACHLOR	0.547	31870	2846	BB
6	4.339		ALDRIN	0.364	21208	1939	BB
7	4.877			0.032	1878	165	BB
8	6.318		HEPTACHLOR EPOXIDE	0.326	18960	1073	BB
9	7.876		ENDOSULFAN I	0.187	10888	556	BB
10	8.716			0.035	2056	118	BV
11	9.480		DIELDRIN	1.388	80845	3522	VB
12	11.439		ENDRIN	0.719	41851	1450	BV
13	13.629		ENDOSULFAN I	0.906	52738	1422	VV
14	15.540		4,4'-DDT	1.377	80208	2058	VB
15	17.160			0.015	870	42	BV
16	17.865			0.032	1846	49	VB
17	21.779			0.022	1262	39	BB
18	24.076		MIREX	0.672	39152	657	BV
19	26.037		DBC	0.463	26991	433	VV
20	28.228		METHOXYCHLOR	0.921	53656	770	VB
TOTALS				100.000	5823910		

686

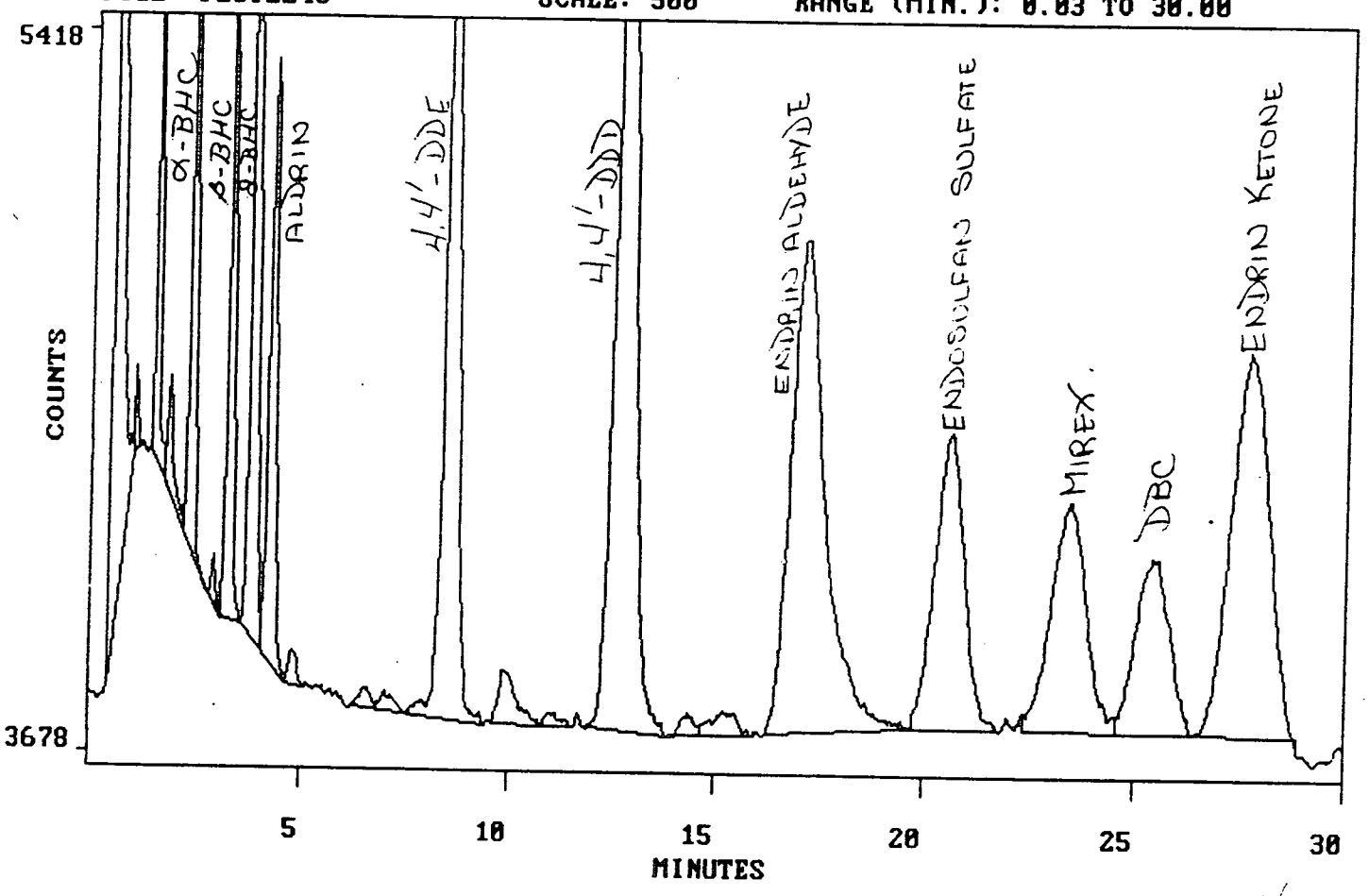
PS 1726
INDIVIDUAL STD MIX D
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:08:39:37 Date:WED 08 OCT 86

Time:13:08:47 Date:MON 06 OCT 86
Method:PEST2

FILE: PEST2248 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



1%

687

Channel #.....4 Time:13:39:26 Date:MON 06 OCT 86
Run #2 of 100

Sample name.....
Data file.....DAT257:PEST2248
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....~~0~~ 1.5% OV-17 + 1.95% OV-210 on 100/120 CHROMOSORB WHP
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....13:08:47 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..23
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.571			91.031	4611681	873846	BB
2	1.073			0.016	807	211	BB
3	1.548			0.136	6912	1251	BV
4	1.862			0.050	2517	288	VV
5	2.381		α-BHC	0.428	21674	3304	VB
6	2.941			0.015	758	118	BB
7	3.286		β-BHC	0.308	15599	1810	BB
8	3.816		δ-BHC	0.650	32914	3402	BV
9	4.271		ALDRIN	0.327	16559	1457	VB
10	4.810			0.021	1048	82	BB
11	6.577			0.019	977	48	BV
12	7.017			0.020	991	44	VV
13	8.564		4,4'-DDE	1.000	50673	2317	VB
14	9.952			0.078	3942	127	BB
15	11.115			0.013	664	29	BB
16	12.761		4,4'-DDD	1.574	79739	2544	BB
17	14.411			0.023	1165	48	BV
18	15.248			0.050	2552	56	VB
19	17.157		ENDRIN ALDEHYDE	1.358	68819	1186	BV
20	20.528		ENDOSULFAN SULFATE	0.548	27741	693	VB
21	23.522		MIREX	0.595	30151	522	BV
22	25.514		DBC	0.504	25530	423	VV

6.86

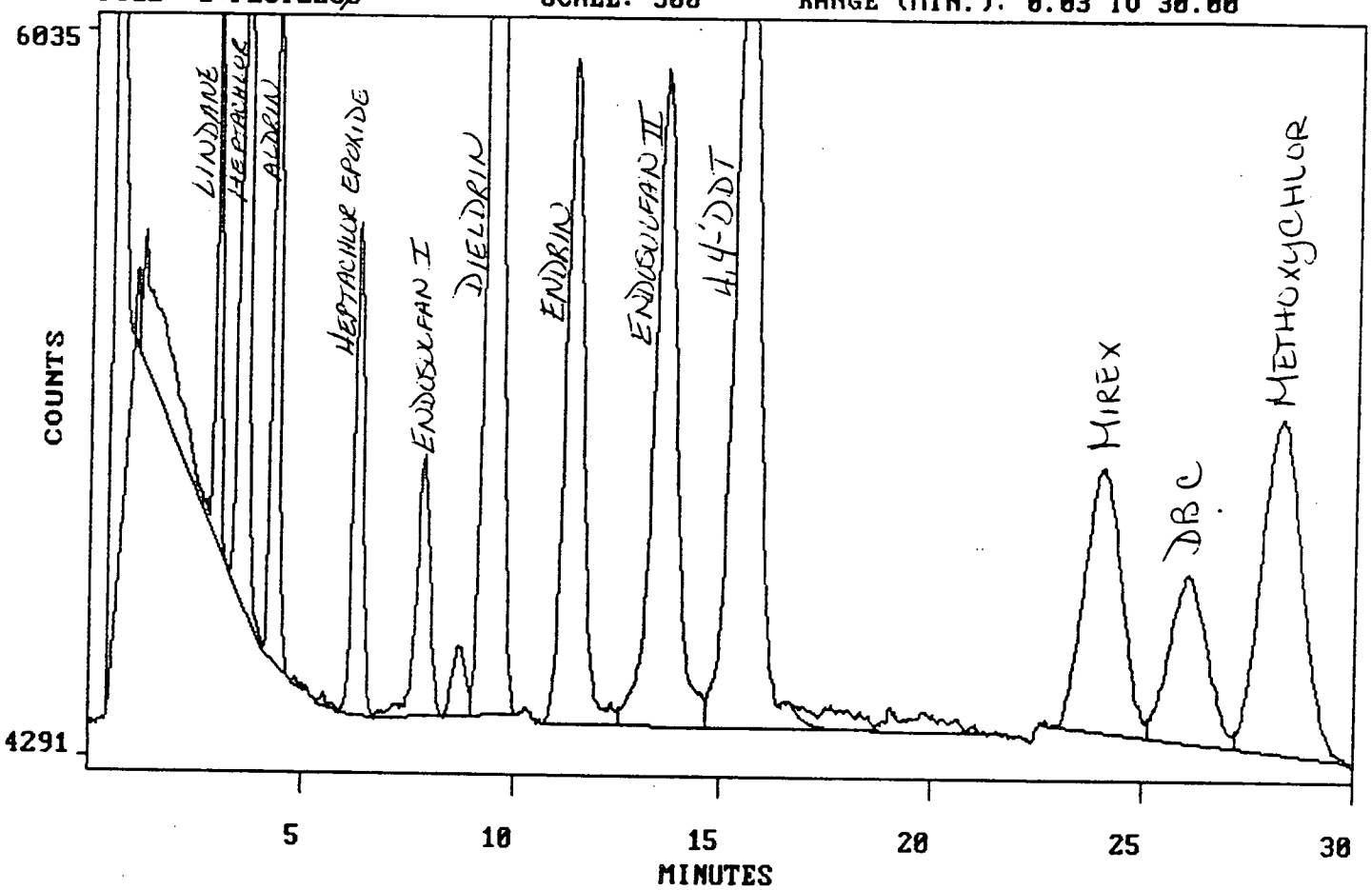
PS 1725
INDIVIDUAL STD MIX A
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:18:47:53 Date:TUE 07 OCT 86

Time:16:54:15 Date:TUE 07 OCT 86
Method:PEST2

FILE: 1:PEST2267 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



Channel #.....REINT Time:18:46:08 Date:TUE 07 OCT 86

Sample name.....
Data file.....DAT258:PEST2268
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....16:54:15 Acq. date....TUE 07 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..20
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.578			90.776	5231221	886178	BB
2	1.085			0.021	1191	192	BV
3	1.260			0.229	13197 ?	325	VV
4	2.984			0.222	12814	1607	VB
5	3.616			0.606	34911	2978	BB
6	4.335			0.415	23909	2122	BB
7	6.308			0.325	18705	1164	BB
8	7.878			0.240	13844 End I	623	BB
9	8.725			0.063	3831	166	BV
10	9.483			1.563	90066	3829	VB
11	11.446			0.819	47181	1579	BV
12	13.646			1.031	59414	1562	VV
13	15.575			1.562	90010	2236	VE
14	17.637			0.071	4073	49	EV
15	19.106			0.067	3855	44	EB
16	24.116			0.660	38027	624	BV
17	26.161			0.421	24266	390	VV
18	28.335			0.911	52490	792	VB
TOTALS				100.000	5762805		

690

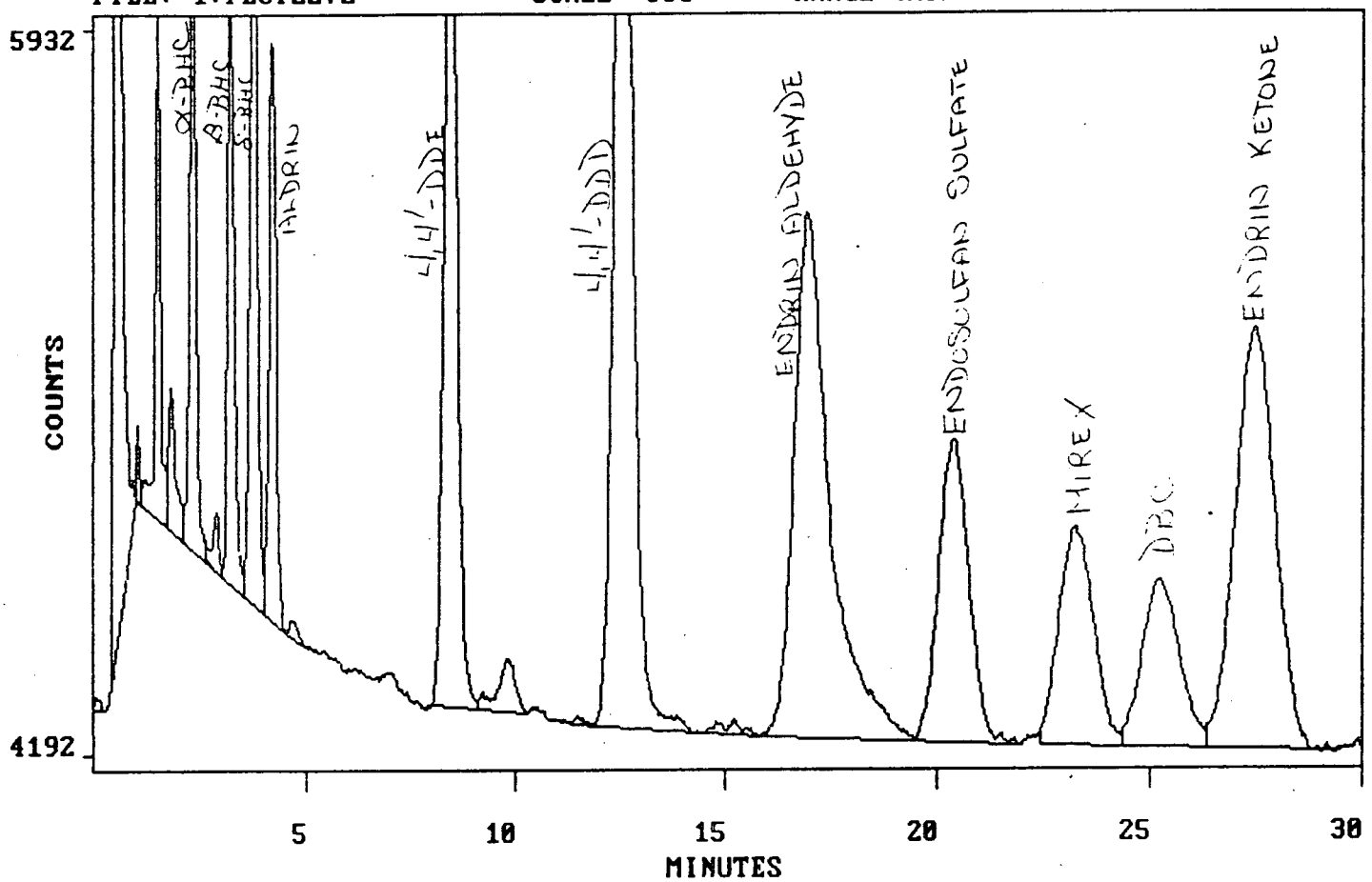
PS1726
INDIVIDUAL STD MIX TO
PRIMARY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:22:07:52 Date:TUE 07 OCT 86

Time:21:30:28 Date:TUE 07 OCT 86
Method:PEST2

FILE: 1:PEST2272 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



Channel #.....REINT Time:22:23:31 Date:TUE 07 OCT 86

Sample name.....
Data file..... 1:FEST2272
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....1.5% OV-17 + 1.95% OV-210 on 100/120 CHROMOSORB WHP
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq time.....21:30:28 Acq. date....TUE 07 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0

Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..20
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

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METHOD NOT CALIBRATED!

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AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.562			90.537	4443578	876753	BB
2	1.066			0.017	834	181	BV
3	1.532			0.185	9085	1323	VV
4	1.839			0.081	3984	341	VV
5	2.352		α-BHC	0.484	23770	3265	VE
6	2.904			0.033	1609	144	EV
7	3.242		β-BHC	0.343	16822	1818	VV
8	3.765		γ-BHC	0.688	33773	3420	VV
9	4.215		ALDRIN	0.327	16040	1410	VB
10	4.689			0.013	650	45	BB
11	8.472		4,4'-DDE	1.014	49775	2300	BV
12	9.867			0.078	3840	126	VB
13	12.644		4,4'-DDD	1.652	81094	2527	BB
14	15.255			0.023	1136	33	BB
15	16.982		ENDRIN ALDEHYDE	1.499	73586	1249	BB
16	20.445		ENDOSULFAN SULFATE	0.705	34592	713	BB
17	23.351		MIREX	0.563	27649	501	BV
18	25.329		DBC	0.464	22753	382	VV
19	27.535		ENDRIN KETONE	1.293	63437	982	VB
TOTALS				100.000	4908007		

97

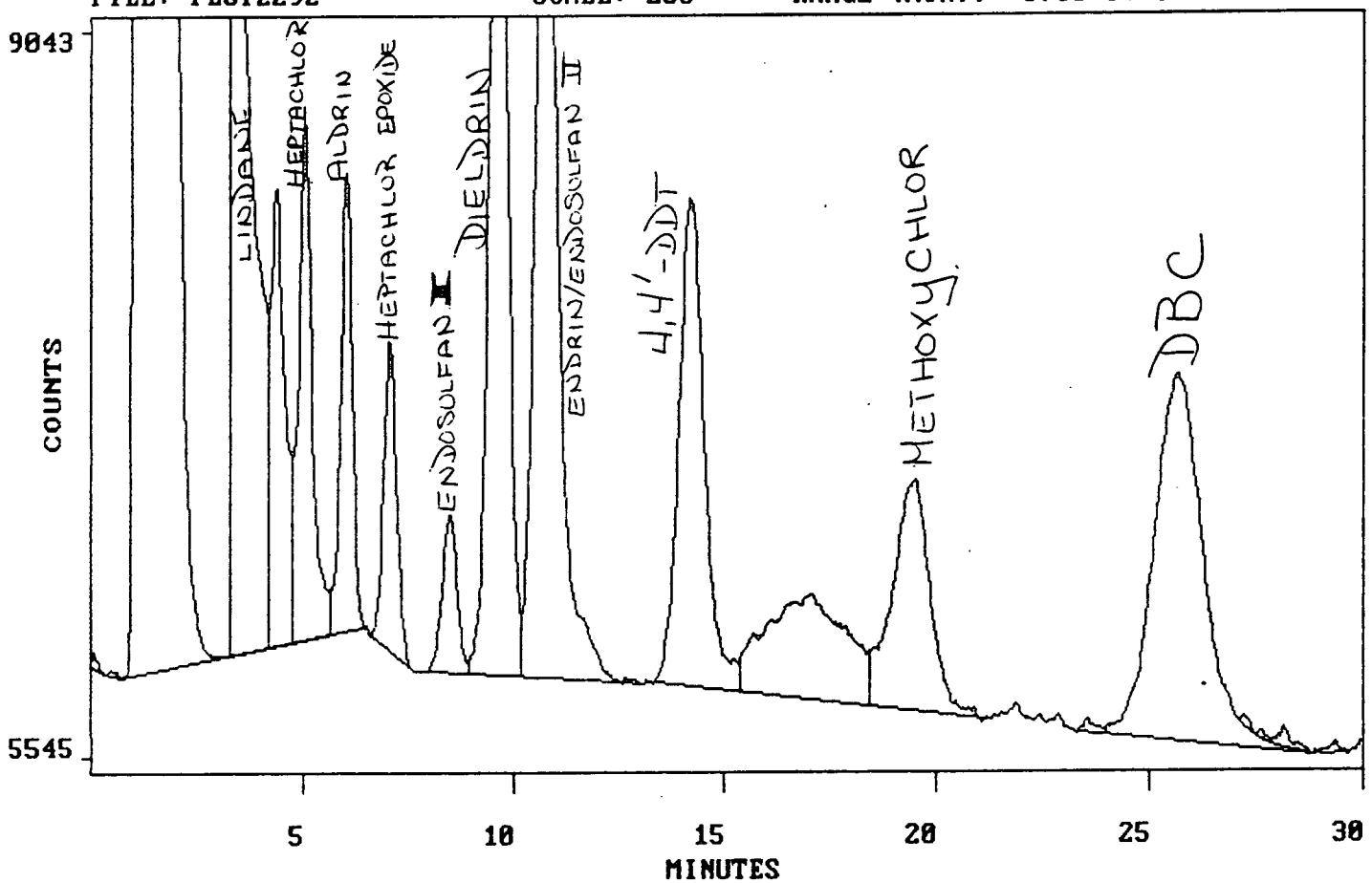
PS1725 CONFIRMATORY COLUMN
INDIVIDUAL STD MIX A

Time:20:26:16 Date:THU 09 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:21:38:27 Date:WED 08 OCT 86
Method:PEST2

FILE: PEST2292 SCALE: 250 RANGE (MIN.): 0.03 TO 30.00



2%

693

Channel #.....4 Time:22:09:08 Date:WED 08 OCT 86
Run #17 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2292
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....~~S~~ 3% SP2100 on 100/120 SUPELCOPORT
Notes.....~~Primary~~ SECONDARY Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....21:38:27 Acq. date....WED 08 OCT 86
Start FW.....20.00 sec. End FW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..20
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.104			0.003	708	78	BB
2	1.276			93.260	21171811	874314	BE
3	2.439			2.017	457879	7438	EV
4	3.498	LIND	LINDANE	0.691	156955 140000	4718	EV 16955
5	4.384			0.251	57079	2211	EV
6	5.055	HEP	HEPTACHLOR	0.262	59501 390.6	2583	EV
7	6.031	ALDRIN	ALDRIN	0.187	42472 283.1	2204	VB
8	7.067	HEP	EPOXHEPTACHLOR EPOXIDE	0.139	31506 315.1	1476	BB
9	8.524	ENDO II	ENDOSULFAN I	0.084	19165 127.8	753	BV
10	9.678	DIELDRIN	DIELDRIN	0.684	155367 388.4	5323	VV
11	10.790	ENDRIN	ENDRIN/ENDOSULFAN II	0.750	170171 189.1	4427	VB
12	14.247	DDT	4,4'-DDT	0.440	99822 133.1	2343	BV
13	17.081			0.294	66643	509	VV
14	19.545	METH	METHOXYCHLOR	0.298	67561 58.5	1113	VB
15	23.685			0.006	1400	50	BV
16	25.761	DBC	DBC	0.618	140197 539.2	1747	VE
17	28.189			0.012	2820	77	EB
18	29.375			0.004	922	39	BB
TOTALS				100.000	22701979		

69A

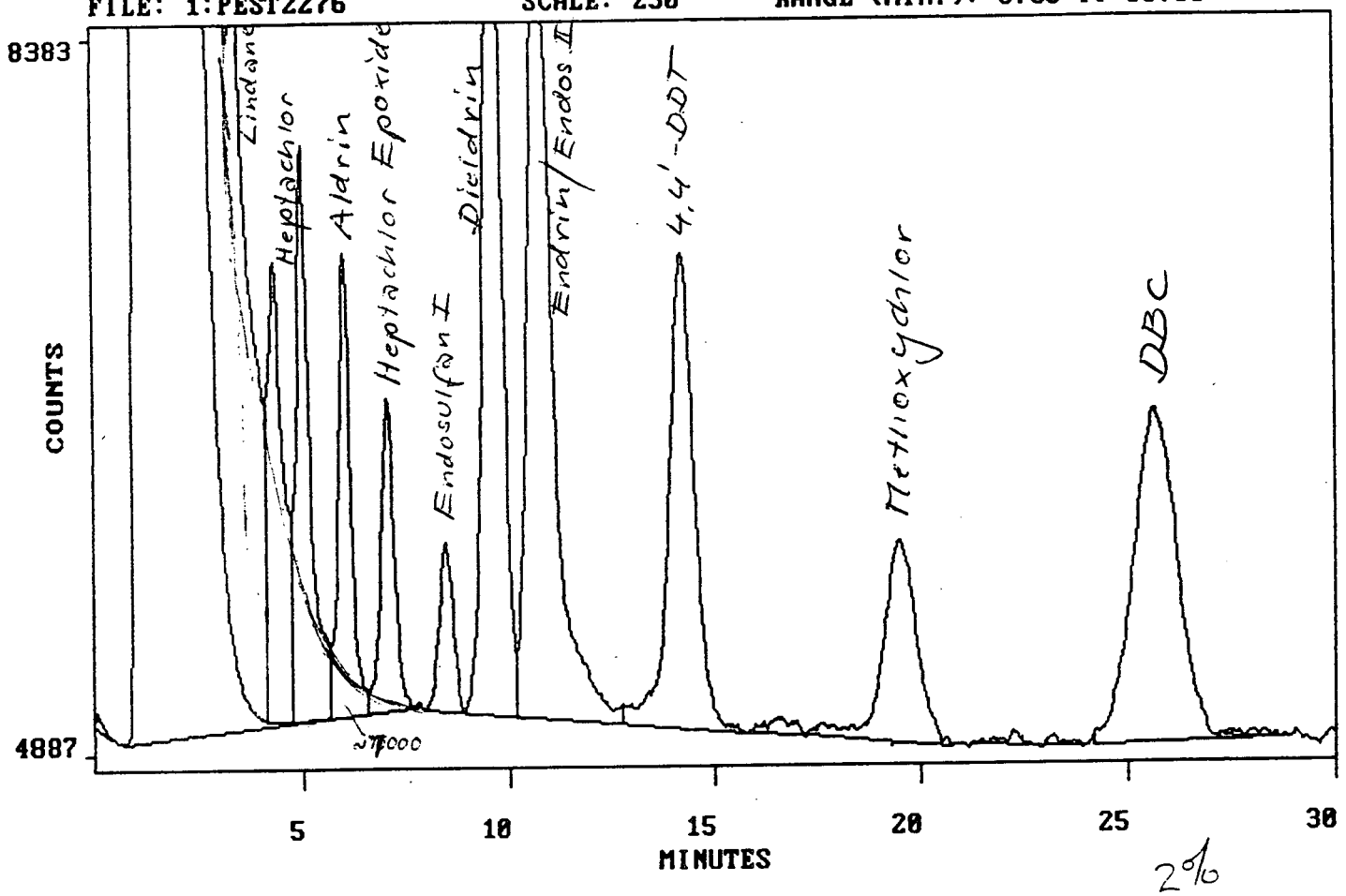
Calibr. Std.
PS 1725
CONFIRMATORY
COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:13:06:38 Date:WED 08 OCT 86

Time:12:31:50 Date:WED 08 OCT 86
Method:PEST2

FILE: 1:PEST2276 SCALE: 250 RANGE (MIN.): 0.03 TO 30.00



2%

695

Channel #.....4 Time:13:02:24 Date:WED 08 OCT 86
Run #1 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2276
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....12:31:50 Acq. date....WED 08 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0

Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..17
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

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METHOD NOT CALIBRATED!

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AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL	RF
1	0.108			0.004	880	78	BB	
2	1.230			94.548	18586197	874012	BE	
3 0.134	3.461		LINDANE	1.113	218696	4045	EV	
4	4.359			0.315	61865	2249	EV	
5 0.195	5.030		~~Hept Epox~~ 150pg	0.346	68001	2809	EV	286.7
6	6.024		ALDRIN	0.240	47124	2243	VV	
7	7.055		Hept epox	0.180	35309	2512	VB	
8	8.486		Endo I	0.102	19974	812	BV	
9 0.375	9.665			0.787	154693	5296	VV	
10	10.787		Endrin / Endosulfan II	0.894	175719	4243	VV	
11	14.262			0.537	105549	2301	VB	
12	16.579			0.017	3420	72	BB	
13 0.765	19.549			0.283	55548	964	BB	
14	22.333			0.012	2268	57	BB	
15	23.272			0.006	1248	46	BB	
16	25.770			0.609	119726	1605	BE	
17	28.123			0.009	1699	31	EB	
TOTALS				100.000	19657916			

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0.387

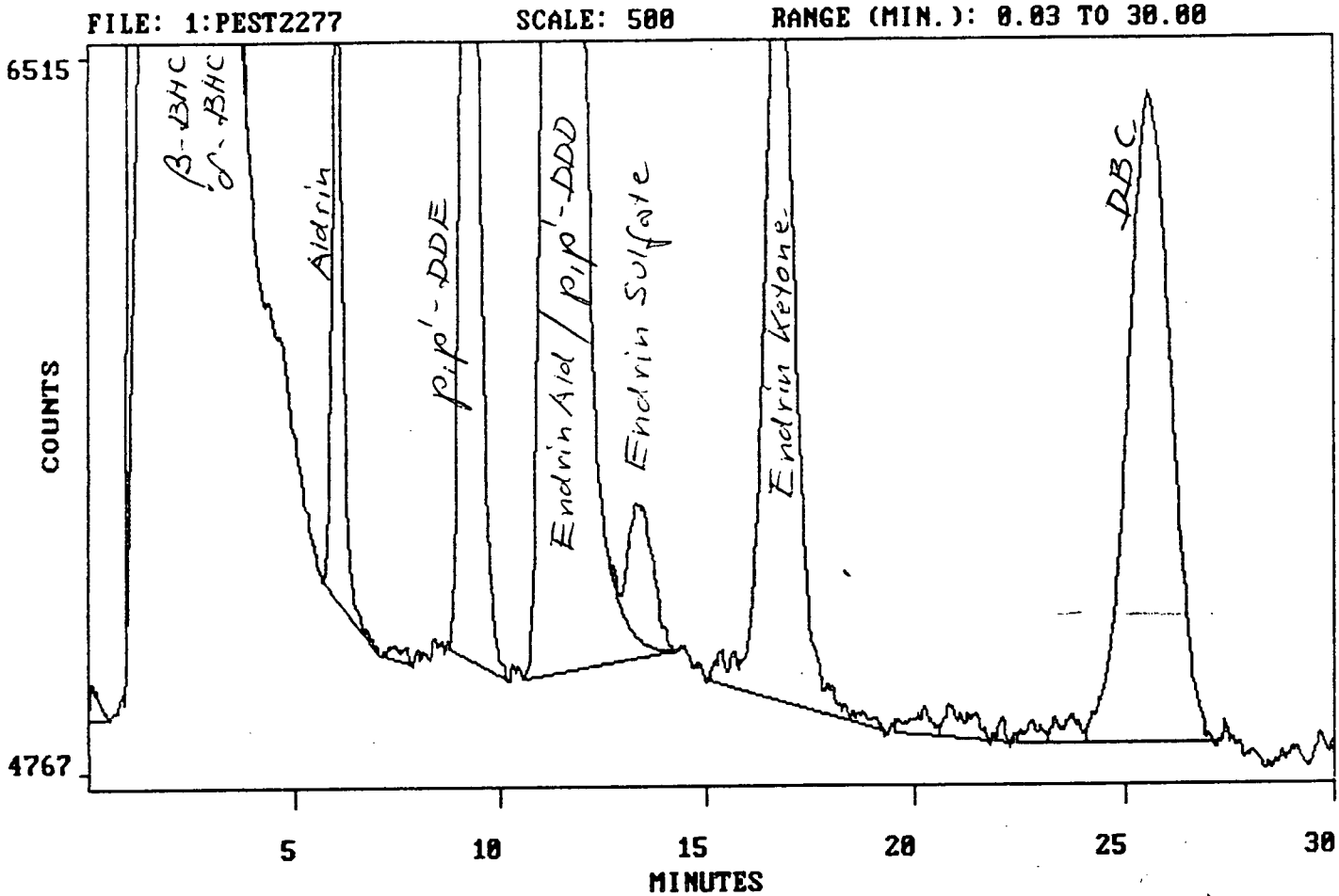
696

Calibr. Std.
PS 1726
CONFIRMATORY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:15:56:57 Date:WED 08 OCT 86

Time:13:03:32 Date:WED 08 OCT 86
Method:PEST2



2.4

697

Channel #.....4 Time:13:34:45 Date:WED 08 OCT 86
Run #2 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2277
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....13:03:32 Acq. date....WED 08 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..17
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %		Area		Peak Ht.	BL	RF
1	0.133			0.009	pg	1412		91	BB	
2	1.221			95.447		15661463		872584	BB	
3	2.228			0.050		8284		980	BB	
4	3.114	δ		0.394	200	64694	323.5	3603	BV	
5	3.572	δ		0.248	250	40766	1635.1	3586	VB	
6	6.054	ALDRIN		0.173	100	28406	284.1 = 1400	541	BB	270
7	7.450			0.006		946		33	BB	
8	9.293	P,P'DDE		0.594	250	97525	390.1	3533	BB	
9	11.401	ENDRIN ALD / P,P'-DDD		1.622	1250	266172	212.1	4637	BE	
10	13.425	ENDO SULFATE		0.086	449.4	14066	31.3	330	EB	
11	16.846	ENDRIN KETONE		0.613	500	100620	201.2	1900	BB	
12	20.300			0.014		2275		49	BV	
13	20.911			0.018		3028		74	VB	
14	22.105			0.004		596		43	BB	
15	22.880			0.009		1436		42	BV	
16	23.824			0.015		2425		63	VV	
17	25.669		DBC	0.697	260	114369	439.9	1569	VB	
TOTALS				100.000		16408483				

698

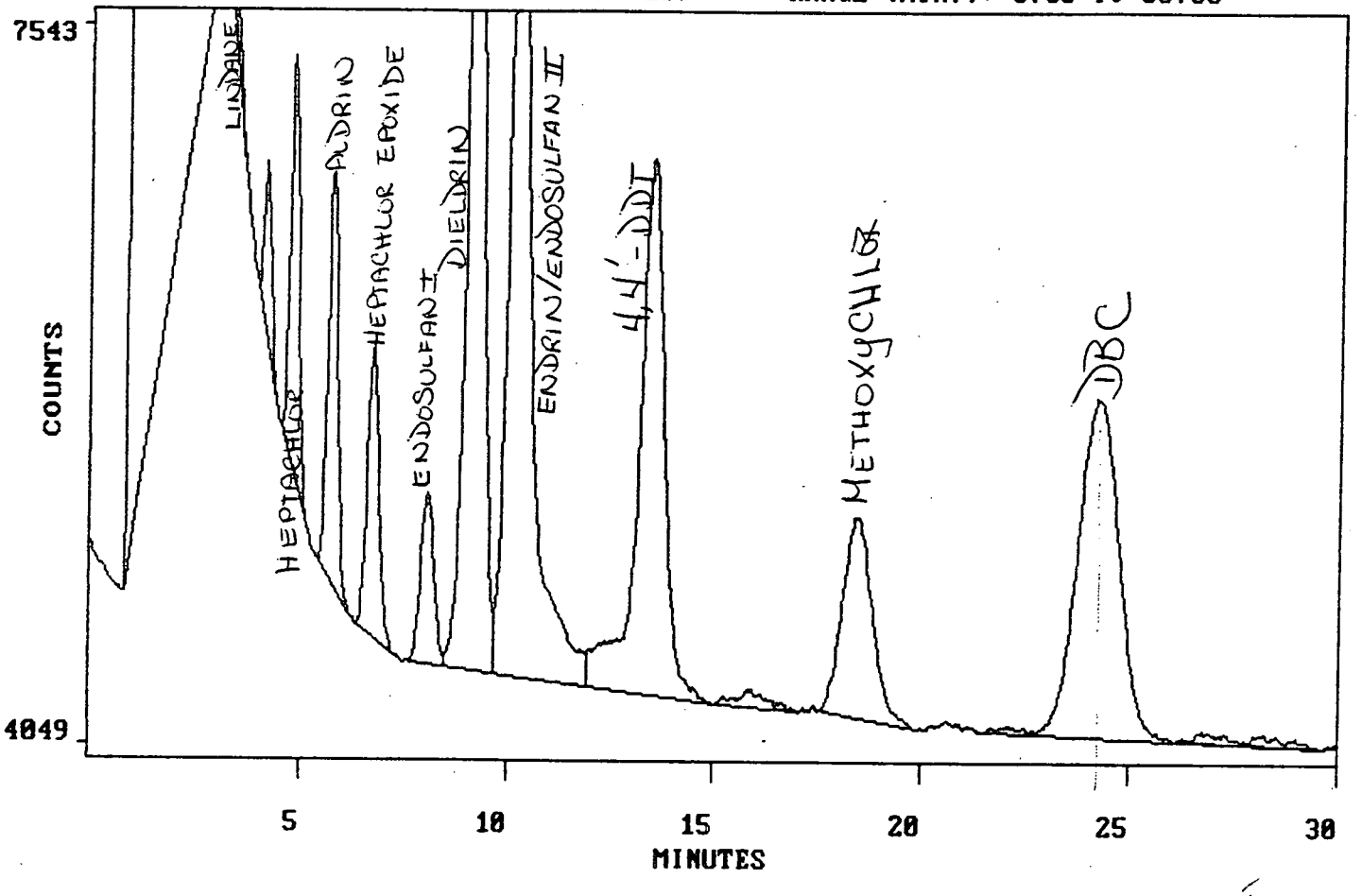
PS1725
INDIVIDUAL STD MIX A
CONFIRMATORY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:02:13 Date:THU 09 OCT 86

Time:08:21:31 Date:THU 09 OCT 86
Method:PEST2

FILE: 1:PEST2293 SCALE: 250 RANGE (MIN.): 0.03 TO 30.00



Channel #.....4 Time:08:52:11 Date:THU 09 OCT 86
Run #1 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2293
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....08:21:31 Acq. date....THU 09 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..16
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	1.153			95.331	15007809	872521	BB
2	0.136 3.311		LINDANE	0.099	15599	1529	BB
3	4.160			0.062	9772	849	BB
4	0.197 4.797		HEPTACHLOR	0.181	28486	2014	BB
5	0.235 5.720		ALDRIN	0.206	32446	2008	BB
6	0.275 6.701		HEPTA EPOX	0.181	28475	1419	BB
7	0.332 8.070		ENDO I	0.125	19606	836	BV
8	0.377 9.187		DIELDRIN	0.903	142081	5225	VV
9	0.421 10.248		ENDRIN . ENDO II	1.079	169856	4290	VV
10	0.556 13.524		DDT	0.742	116848	2585	VB
11	15.908			0.028	4424	88	BB
12	0.759 18.486		METHOXYCHLOR	0.310	48756	971	BB
13	22.200			0.008	1285	30	BV
14	24.344		DBC	0.711	111965	1631	VE
15	26.887			0.016	2567	45	EV
16	28.225			0.019	2942	45	EB
TOTALS				100.000	15742917		

0.04168

700

PS1726

INDIVIDUAL STD MIX B

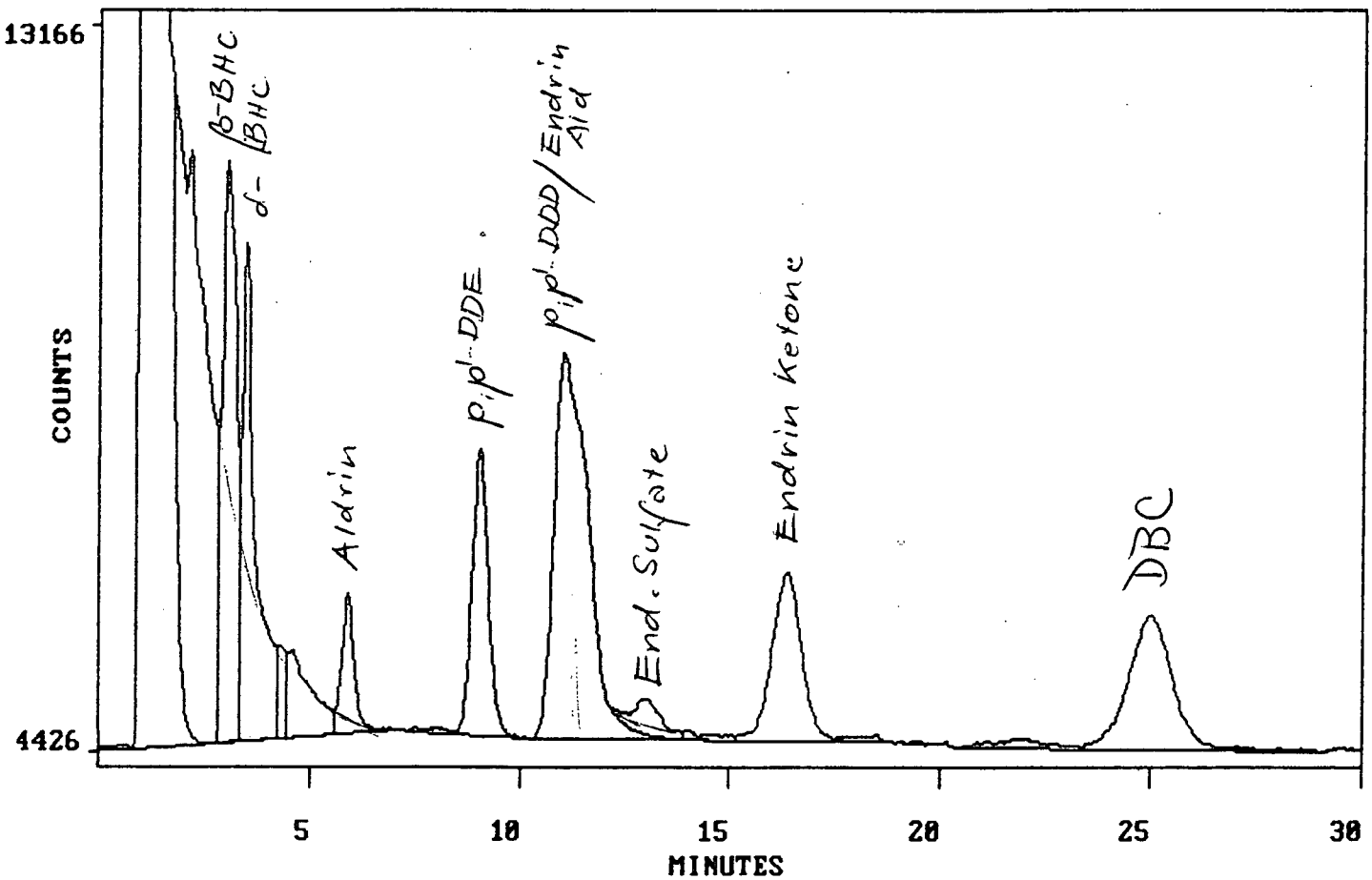
CONFIRMATORY COLUMN

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:16:52:29 Date:THU 09 OCT 86

Time:16:15:54 Date:THU 09 OCT 86
Method:PEST2

FILE: 1:PEST2306 SCALE: 100 RANGE (MIN.): 0.03 TO 30.00



2.6

201

Channel #.....4 Time:16:46:34 Date:THU 09 OCT 86
Run #1 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2306
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....16:15:54 Acq. date....THU 09 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0

Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..21
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %		Area		Peak Ht.	BL	
1	0.511			0.009	pg	1606		53	BB	
2	1.200			92.357		16619385		873965	BE	
3	2.169			1.908		343277		6953	EV	
4	3.033		B-BHC	0.968	200	174274	-100000	6962	EV	371.4
5	3.480		δ-BHC	0.800	250	143930	-100000	5995	EV	175.7
6	4.306			0.107		19244		1103	EV	
7	4.570			0.231		41583		1040	EV	
8	5.870			0.188	100	33854	-60000	1670	VE	278.5
9	6.877			0.004		765		31	EB	
10	8.014			0.012		2238		58	BV	
11	9.050		4,4'-DDE	0.522	250	93,850		3418	VB	375.4
12	11.096		4,4'-DDD ALDEHYDE	1.457	1250	262270		4629	BE	209.8
13	13.030		ENDOSULFAN SULFATE	0.122	449.4	21864	-5000	420	EV	~~48.7~~ 37.5
14	14.058			0.014		2511		111	EV	
15	14.481			0.020		3526		71	EV	
16	16.391			0.548	500	98606		2005	VE	197.2
17	18.512			0.018		3251		76	EB	
18	21.992			0.064		11498		115	BV	
19	25.101		DBC	0.637		114656		1576	VE	
20	28.167			0.014		2512		33	EB	
TOTALS				100.000		17994700				

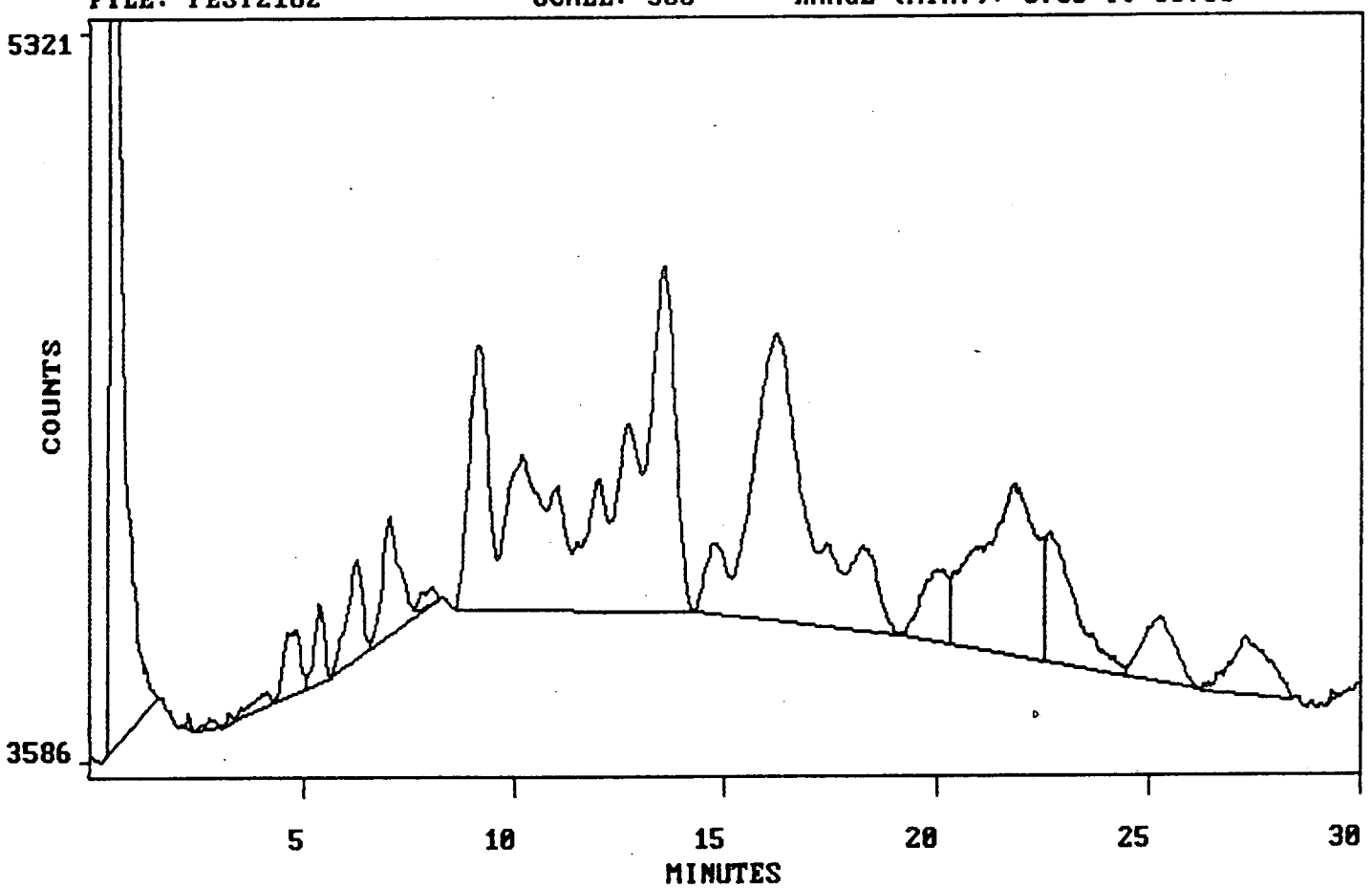
PS1732
TOXAPHENE STD

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:19:38:54 Date:MON 06 OCT 86

Time:12:44:52 Date:MON 29 SEP 86
Method:TOXCLP

FILE: PEST2162 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



203

Channel #.....REINT Time:19:37:18 Date:MON 06 OCT 86

Sample name.....NJDEP
Data file.....PEST2162
Method name.....TOXCLP

Author.....LAL
Instrument.....Tracor 550 - ECD
Column.....1.5% OV-17/1.95% OV-210
Notes.....Reintegration of Toxaphene

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....12:44:52 Acq. date....MON 29 SEP 86
Start PW.....20.00 sec. End PW.....70.00 sec.
Actual PW....60.0
Slope sens.....0.30 uv/sec.

Area reject....1000
peaks found..18
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.583			94.803	5053532	903819	BB
2	4.170			0.022	1190	32	BB
3	4.813			0.074	3956	150	BV
4	5.374			0.055	2936	189	VB
5	6.237			0.114	6060	232	BV
6	6.998			0.152	8120	283	VE
7	8.039			0.020	1045	40	EB
8	13.553			2.015	107404	823	BB
9	16.205			1.287	68610	684	BB
10	20.044			0.142	7560	169	BV
11	21.826			0.714	38059	407	VV
12	22.695			0.279	14849	305	VV
13	25.304			0.158	8439	154	VB
14	27.322			0.165	8784	135	BB
TOTALS				100.000	5330544		

70A

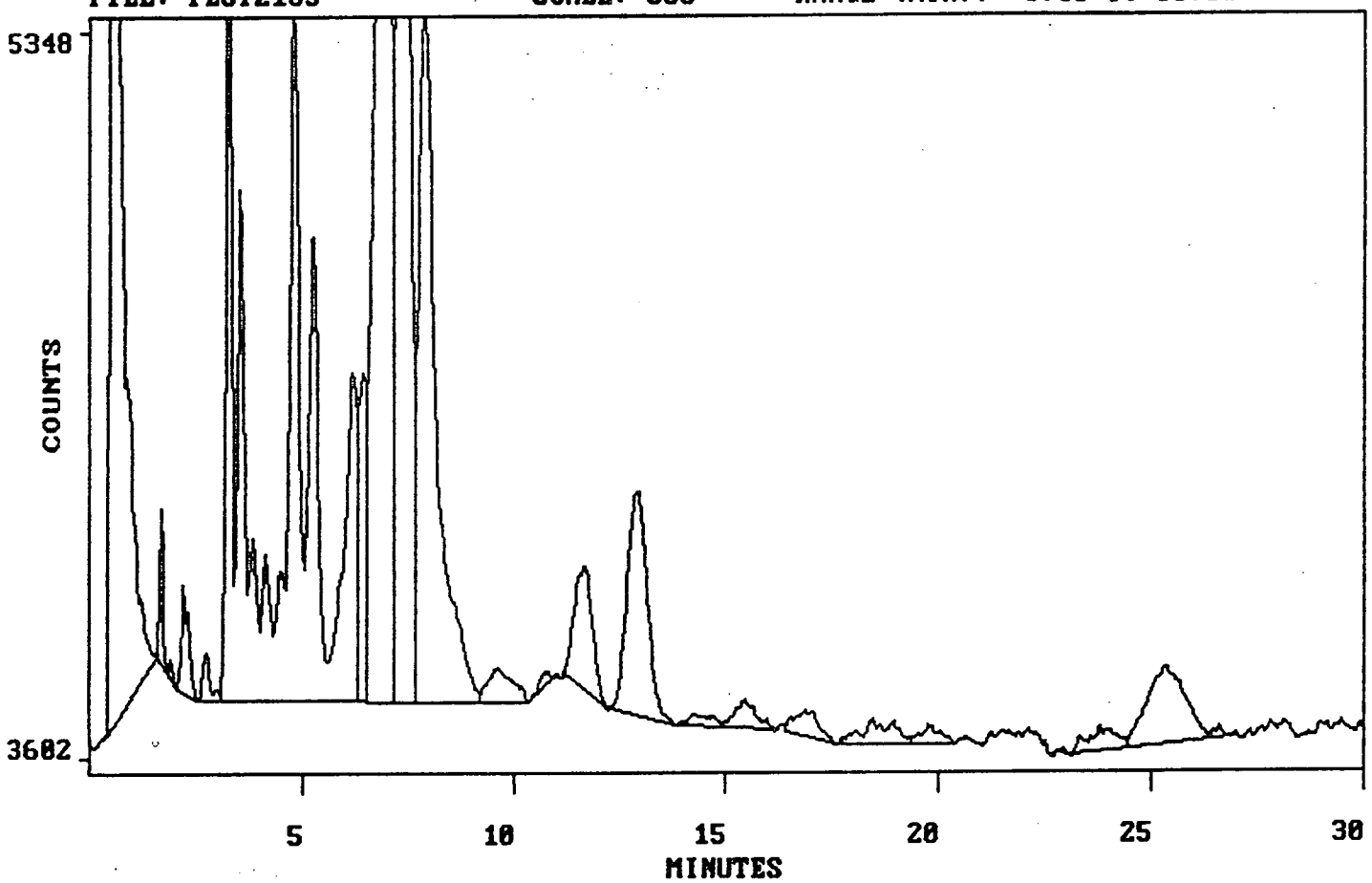
PS1730
CHLORDANE STD MIX

Time:18:24:32 Date:MON 06 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:13:24:55 Date:MON 29 SEP 86
Method:CHLORCLP

FILE: PEST2163 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



205

Channel #.....REINT Time:18:23:24 Date:MON 06 OCT 86

Sample name.....NJDEP
Data file.....PEST2163
Method name.....CHLORCLP

Author.....LAL
Instrument.....Tracor 550 - ECD
Column.....1.5% SP-2250/1.95% SP-2401 on 100/120
Notes.....Reintegration of Chlordane

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....13:24:55 Acq. date....MON 29 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
                  Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....1000
peaks found..20
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.585			93.173	5105131	936814	BB
2	1.705			0.034	1889	375	BE
3	2.237			0.057	3106	256	BB
4	3.298			1.913	104811	2091	BV
5	6.429			0.177	9690	783	VV
6	6.833			1.526	83635	3345	VV
7	7.391			1.234	67606	3364	VV
8	7.898			0.907	49723	1740	VV
9	9.637			0.060	3262	80	VB
10	11.704			0.157	8595	294	BB
11	12.965			0.320	17538	529	BB
12	14.303			0.019	1065	25	BV
13	15.503			0.040	2214	61	VB
14	17.033			0.045	2448	60	BB
15	18.976			0.056	3070	48	BV
16	19.869			0.023	1287	36	VB
17	24.050			0.045	2460	44	BV
18	25.449			0.213	11656	178	VB
TOTALS				100.000	5479186		

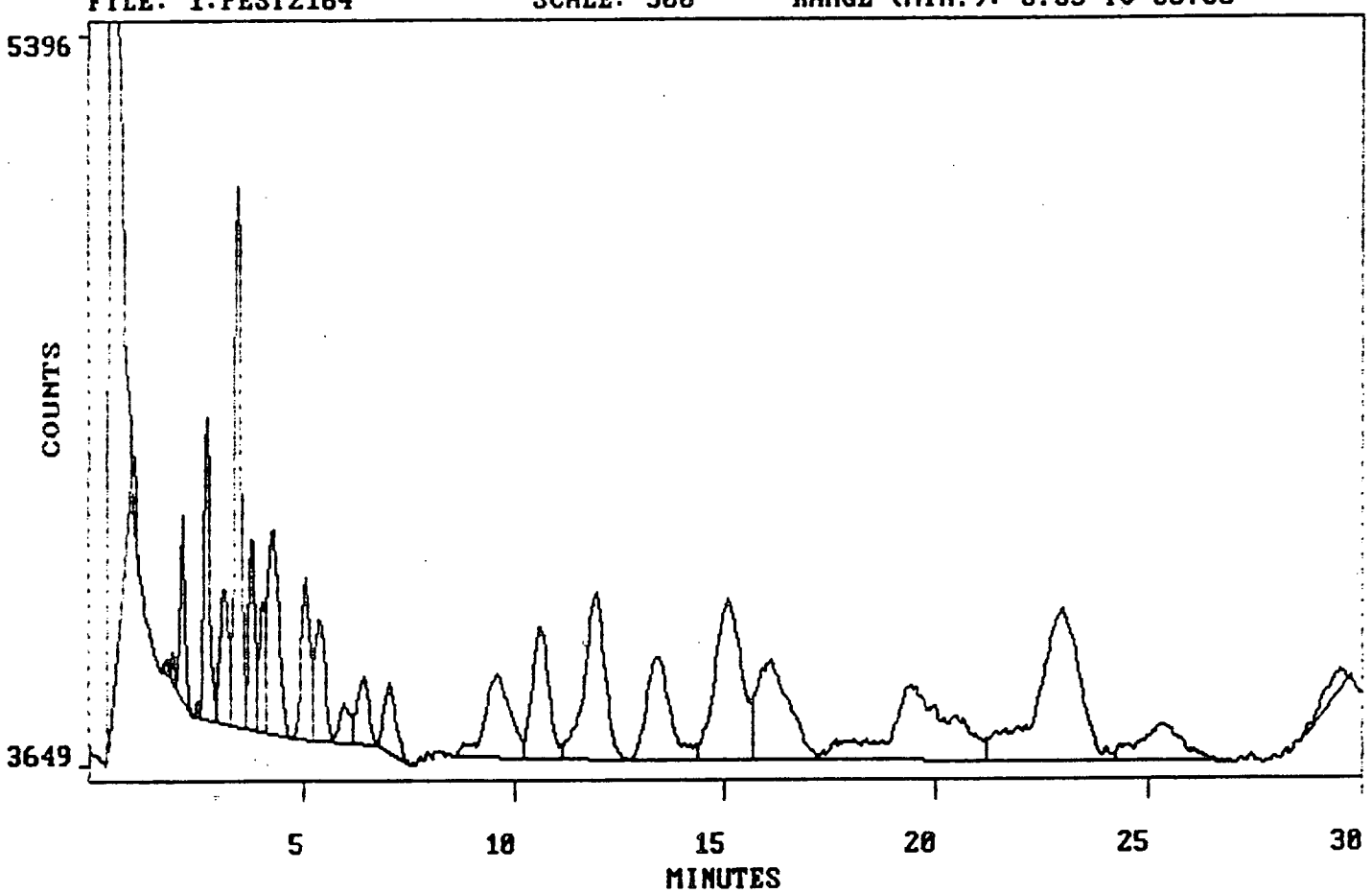
PS1736
AROCHLOR 1016/1260 STANDARD

Time:18:24:54 Date:MON 29 SEP 8[illegible]

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:13:55:58 Date:MON 29 SEP 8[illegible]
Method:PEST2

FILE: 1:PEST2164 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



707

Channel [illegible] 4 Time:14 [illegible] Date:MON 29 SEP 86
Run #4 of 100

Sample [illegible] ....NJDEP
[illegible] DAT255:PEST2164
Method name PEST2

Author LAL
Instrument ECD
Column G
Notes Primary Column Runs

Run time	00.00 min.	Delay time	0.00 min
Acq. time	13:55:58	Acq. date	MON 29 SEP 86
Start PW	00.00 sec.	End PW	150.00 sec.
		Actual PW	140.0
Slope sens.	0.75 uv/sec.		

[illegible] 500
[illegible] 27
[illegible] 5.0 ul Sample amount 1.000
[illegible] 1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T. (min)	R/S	Peak name	Area %	Area	Peak Ht	BL
[illegible]	[illegible]			[illegible]	5550090	915107	BB
2	2.207			0.055	3143	443	BB
[illegible]	[illegible]			[illegible]	[illegible]	727	VV
[illegible]	[illegible]			[illegible]	4678	321	VV
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	VV
[illegible]	[illegible]			[illegible]	[illegible]	465	VV
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	VV
[illegible]	[illegible]			[illegible]	[illegible]	439	VB
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	BV
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	VV
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	VV
12	[illegible]			[illegible]	[illegible]	158	VB
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	BB
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	BV
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	VB
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	VV
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]

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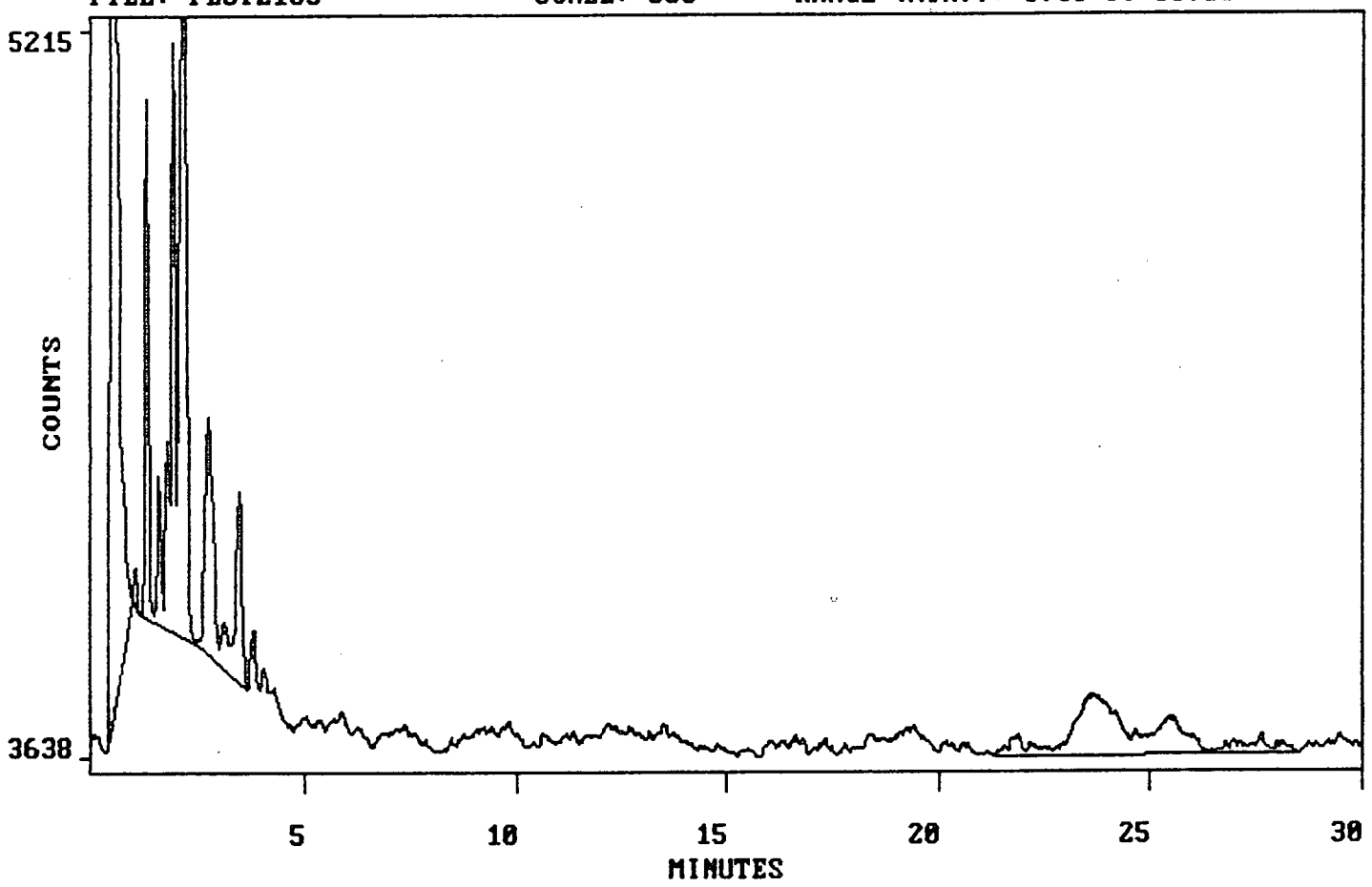
PS1737
AROCLOR 1221 STD

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:19:43:55 Date:MON 06 OCT 86

Time:14:27:34 Date:MON 29 SEP 86
Method:ARO1221C

FILE: PEST2165 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



9/10

Channel #.....REINT Time:19:42:48 Date:MON 06 OCT 86

Sample name.....NJDEP
Data file.....PEST2165
Method name.....ARO1221C

Author.....UM
Instrument.....Tracor 550 - ECD
Column.....1.5% OV-17/1.95% OV-210
Notes.....Reintegration of Aroclors

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....14:27:34 Acq. date....MON 29 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
                  Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....1000
peaks found..5
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.565			98.028	3529434	790052	BB
2	2.211			1.177	42378	2923	BB
3	2.770			0.332	11949	515	BB
4	23.703			0.463	16667	130	BB
TOTALS				100.000	3600428		

711

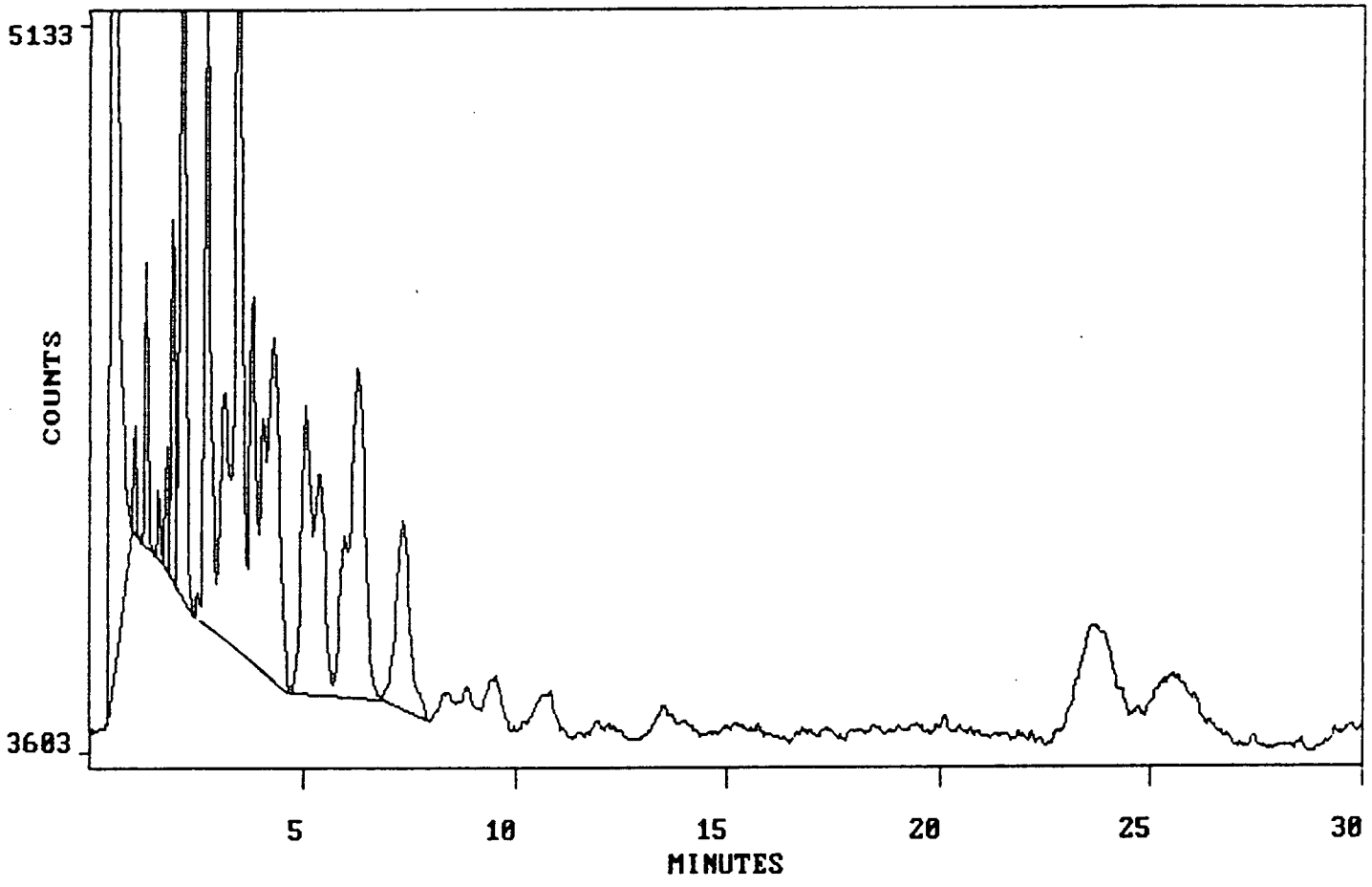
PS1740
AROCHLOR 1232 STD

Time:17:57:04 Date:MON 06 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:15:03:14 Date:MON 29 SEP 86
Method:ARO1242C

FILE: PEST2166 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



712

Channel #.....REINT Time:17:55:23 Date:MON 06 OCT 86

Sample name.....NJDEP
Data file.....PEST2166
Method name.....ARO1242C

Author.....LAL
Instrument.....Tracor 550 - ECD
Column.....1.5% OV-17/1.95% OV-210
Notes.....Reintegration of Aroclors

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....15:03:14 Acq. date....MON 29 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
                  Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..9
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.567			97.762	3202705	765006	BB
2	1.091			0.030	972	236	BV
3	1.365			0.085	2792	601	VV
4	1.641			0.020	660	151	VB
5	1.835			0.051	1659	261	BV
6	1.975			0.141	4605	776	VV
7	2.215			0.526	17244	2176	VB
8	6.272			1.107	36263	692	BB
9	7.324			0.278	9114	395	BB
TOTALS				100.000	3276014		

PS1738

AROCLOR 1242 STD

Time:17:43:33 Date:MON 06 OCT 86

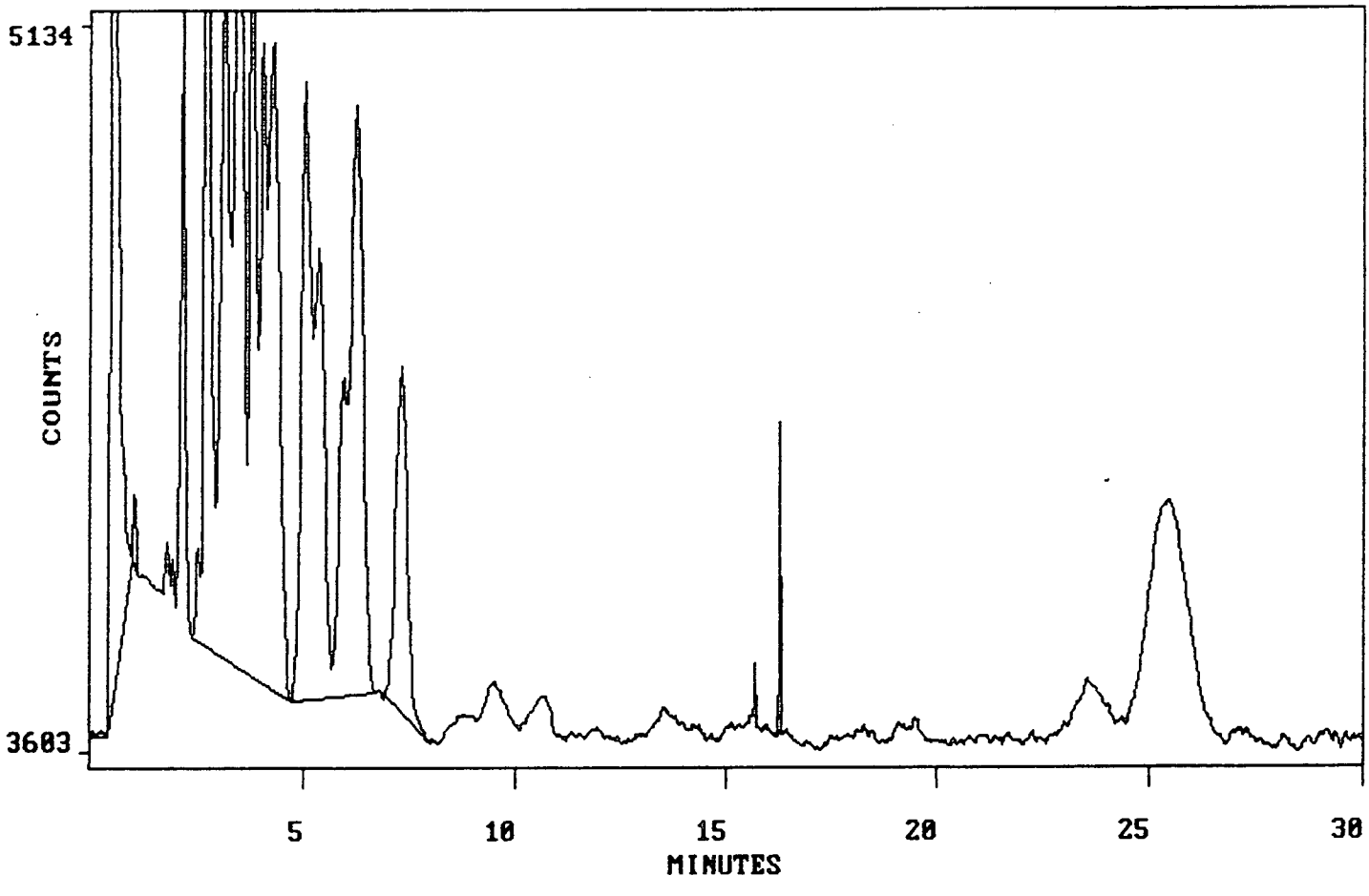
RECONSTRUCT SCREEN DUMP

Data Acquisition

Time:15:36:13 Date:MON 29 SEP 86

Method:ARO1242C

FILE: PEST2167 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



714

Channel #.....REINT Time:17:42:56 Date:MON 06 OCT 86

Sample name.....NJDEP
Data file.....PEST2167
Method name.....ARO1242C

Author..... LAL
Instrument.....Tracor 550 - ECD
Column.....1.5% OV-17/1.95% OV-210
Notes.....Reintegration of Aroclors

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....15:36:13 Acq. date....MON 29 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
                  Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..6
Vol. Inj. .....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.563			92.869	3125489	770071	BB
2	1.081			0.020	660	164	BB
3	3.493			4.621	155534	4880	BB
4	5.039			2.079	69954	1304	BB
5	7.329			0.412	13862	722	BB
TOTALS				100.000	3365499		

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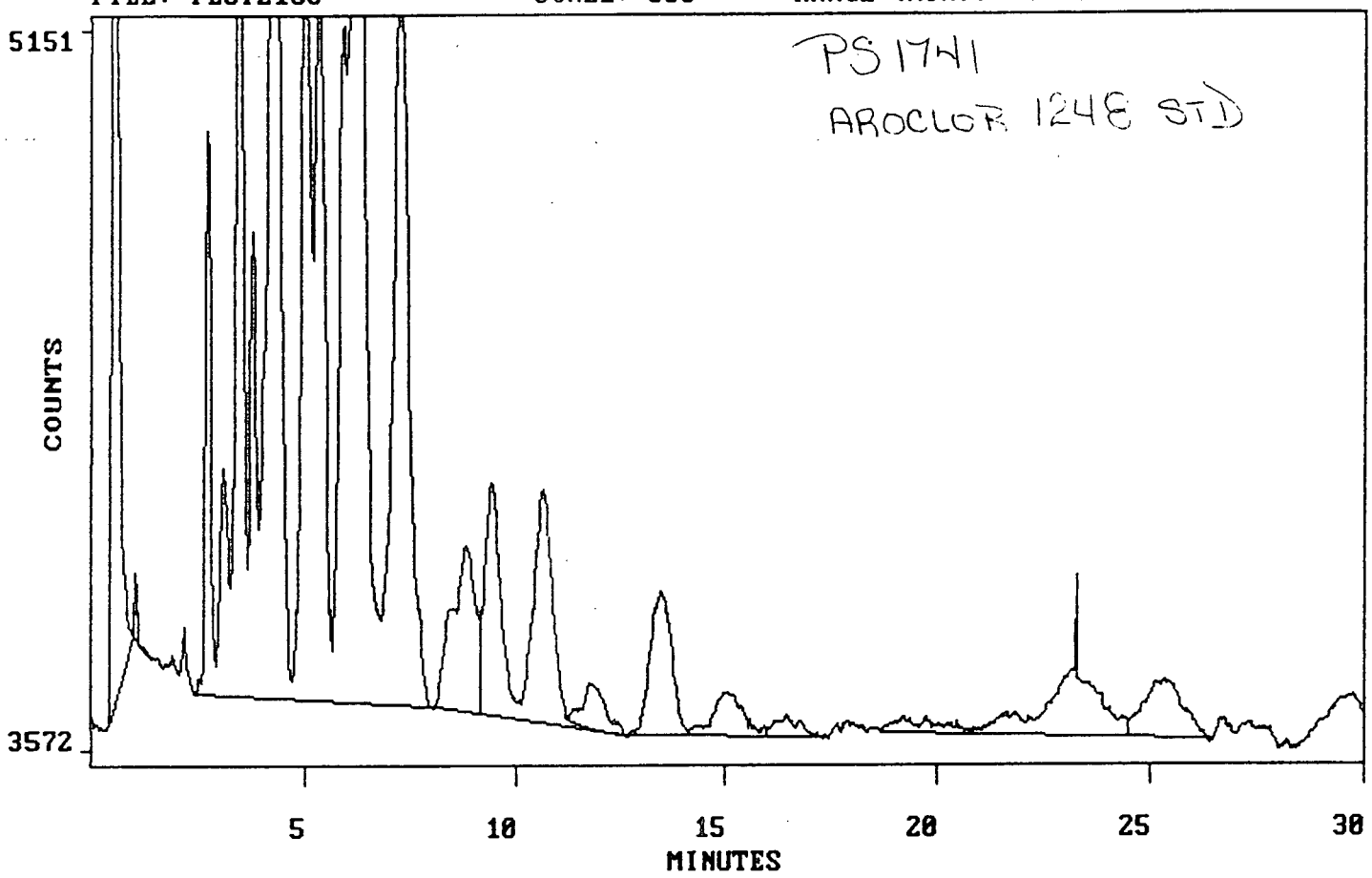
RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:16:07:17 Date:MON 29 SEP 86
Method:ARO1248C

FILE: PEST2168 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



Channel #.....REINT Time:16:26:30 Date:MON 06 OCT 86

Data file..... PEST2169
Method name..... ARO1248C

Author..... MLR
Instrument..... Tracor 550 - ECD
Column..... 1.5% SP-2250/1.95% SP-2401 on 100/120
Notes..... Reintegration of Aroclors

Run time..... 30.00 min.
Acq. time..... 16:07:17
Start PW..... 20.00 sec.

Delay time... 0.00 min.
Acq. date... MON 29 SEP 86
End PW..... 150.00 sec.
Actual PW... 140 0

Slope sens..... 0.75 uv/sec.

Area reject.... 1000
peaks found.. 12
Vol. Inj..... 5.0 ul
Conv. factor... 1.000

Sample amount.. 1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.561			89.600	3304045	801127	BB
2	3.486			8.111	299094	3750	BB
3	8.858			0.393	14491	373	BV
4	9.453			0.829	30587	517	VE
5	11.797			0.097	3569	96	EB
6	13.504			0.307	11312	322	BV
7	15.074			0.127	4683	93	VV
8	16.476			0.043	1597	39	VB
9	23.377			0.286	10548	172	VV
10	25.400			0.207	7620	118	VB
TOTALS				100.000	3687546		

7/8

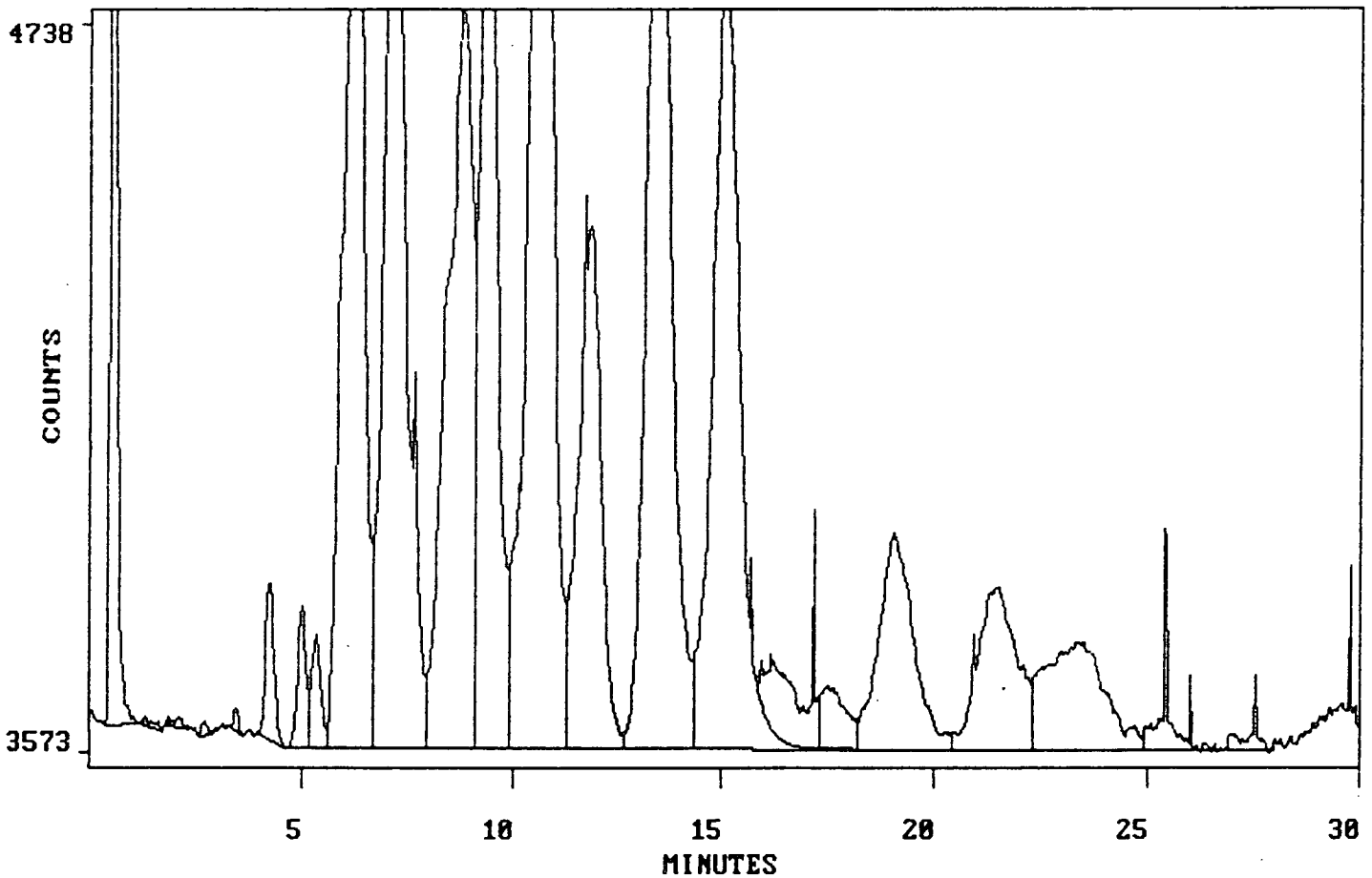
PS1747
AROCLOR 1254 STD

Time:19:58:14 Date:MON 06 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:16:39:59 Date:MON 29 SEP 86
Method:PEST2

FILE: PEST2169 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



7/6

Channel #.....REINT Time:19:49:25 Date:MON 06 OCT 86

Sample name.....NJDEP
Data file.....PEST2169
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....16:39:59 Acq. date....MON 29 SEP 86
Start PW.....20.00 sec. End PW.....150.00 sec.
                  Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..23
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.551			82.144	2585264	647644	BB
2	4.248			0.111	3488	253	BB
3	5.002			0.101	3184	226	BV
4	5.350			0.085	2687	183	VV
5	6.218			1.936	60946	2121	VV
6	7.217			2.000	62934	1754	VV
7	8.842			1.628	51227	1197	VV
8	9.419			1.517	47748	1775	VV
9	10.696			3.051	96022	2746	VV
10	11.885			1.006	31673	831	VV
11	13.485			2.185	68752	1739	VV
12	15.113			1.760	55393	1232	VE
13	17.175			0.272	8576	144	EV
14	17.578			0.144	4543	97	EV
15	19.137			0.743	23393	332	VV
16	21.540			0.633	19930	253	VV
17	23.476			0.533	16767	168	VV
18	25.468			0.112	3525	164	VB
19	27.630			0.038	1200	40	BB
TOTALS				100.000	3147252		

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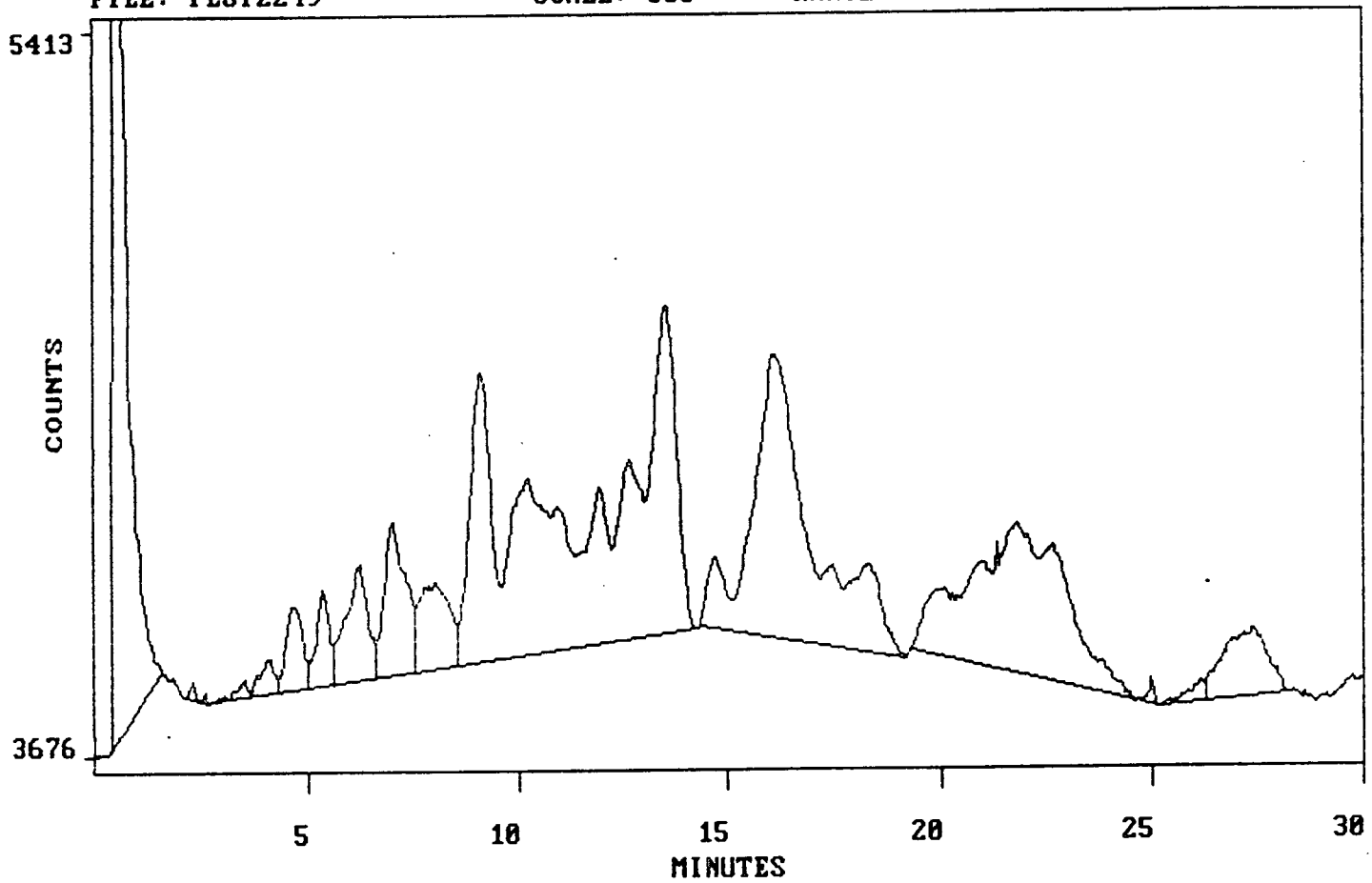
PS1732
TOXAPHENE STD MIX.

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:16:10:37 Date:FRI 10 OCT 86

Time:13:49:06 Date:MON 06 OCT 86
Method:TOXCLP

FILE: PEST2249 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



Channel #.....REINT Time:16:09:48 Date:FRI 10 OCT 86

Sample name.....
Data file.....PEST2249
Method name.....TOXCLP

Author.....LAL
Instrument.....Tracor 550 - ECD
Column .....1.5% OV-17/1.95% OV-210 on 100/120 CHROMOSORB WHP
Notes .....Reintegration of Toxaphene

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....13:49:06 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....70.00 sec.
                  Actual PW....60.0
Slope sens.....0.30 uv/sec.

Area reject....1000
peaks found..17
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.583			94.330	5101690	901922	BB
2	4.094			0.038	2031	82	VV
3	4.639			0.098	5306	200	VV
4	5.356			0.090	4867	230	VV
5	6.222			0.186	10040	278	VV
6	6.979			0.251	13558	372	VV
7	8.008			0.193	10441	205	VV
8	13.538			2.249	121607	786	VB
9	16.082			1.255	67862	683	BB
10	21.804			1.068	57762	357	BB
11	26.210			0.029	1567	52	BV
12	27.444			0.215	11610	159	VB
TOTALS				100.000	5408341		

PST/50

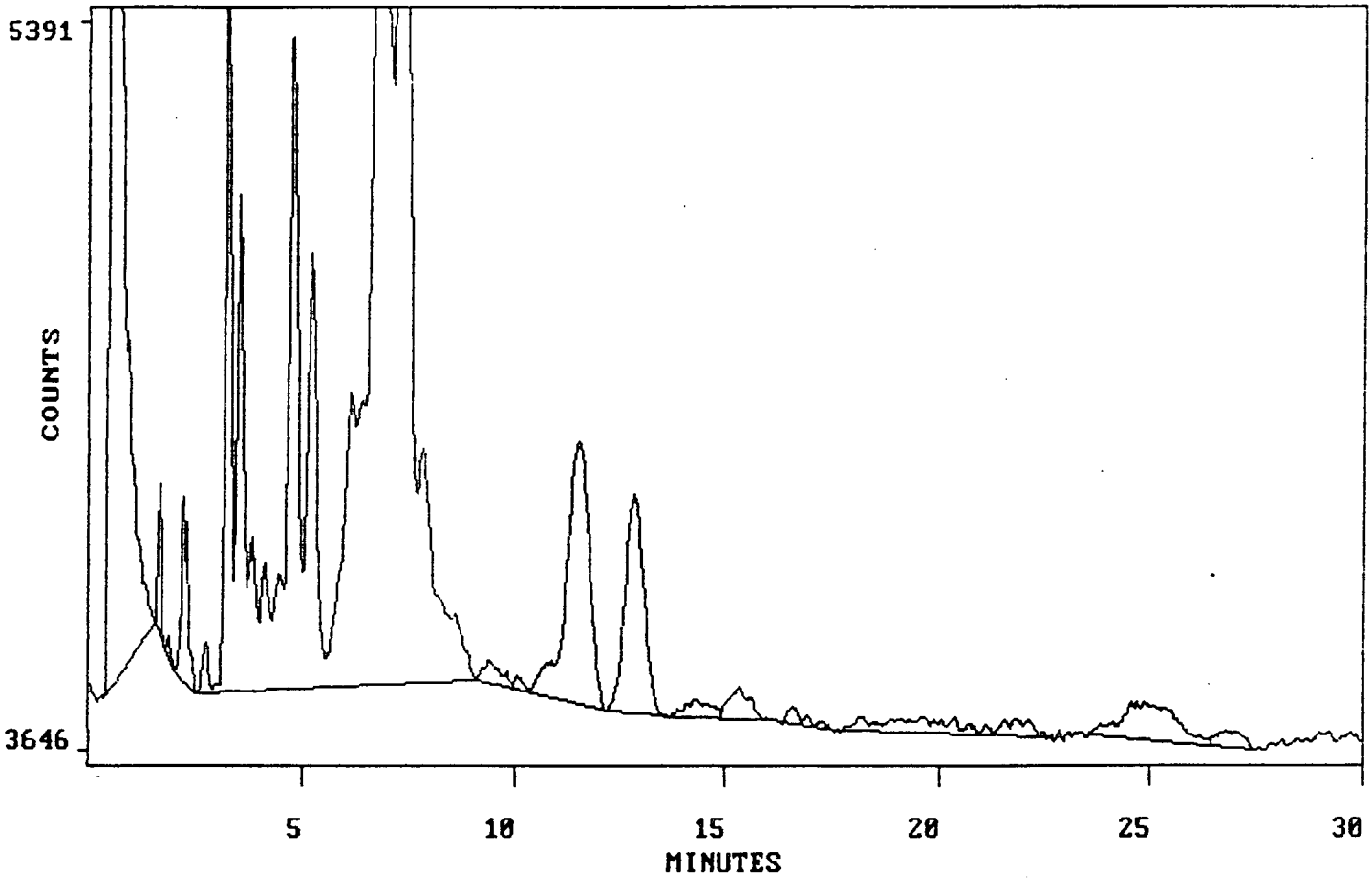
CHLORDANE STD MIX.

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:16:42:13 Date:FRI 10 OCT 86

Time:14:21:05 Date:MON 06 OCT 86
Method:CHLORCLP

FILE: PEST2250 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



722

Channel #.....REINT Time:16:41:24 Date:FRI 10 OCT 86

Sample name.....
Data file.....PEST2250
Method name.....CHLORCLP

Author.....LAL
Instrument.....Tracor 550 - ECD
Column.....1.5% SP-2250/1.95% SP-2401 on 100/120 CHROMOSORB WHP
Notes.....Reintegration of Chlordane

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....14:21:05 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
                  Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....1000
peaks found..16
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.584			94.145	5307173	932828	BB
2	1.698			0.029	1627	362	BB
3	2.259			0.083	4680	445	BB
4	7.359			4.620	260462	3123	BB
5	9.437			0.026	1474	51	BV
6	11.546			0.430	24212	624	VB
7	12.872			0.287	16168	520	BB
8	14.342			0.033	1861	42	BV
9	15.366			0.044	2492	70	VB
10	16.630			0.020	1150	40	BB
11	19.657			0.089	5006	38	BV
12	21.936			0.028	1604	38	VB
13	24.988			0.138	7796	84	BV
14	27.000			0.027	1508	35	VB
TOTALS				100.000	5637213		

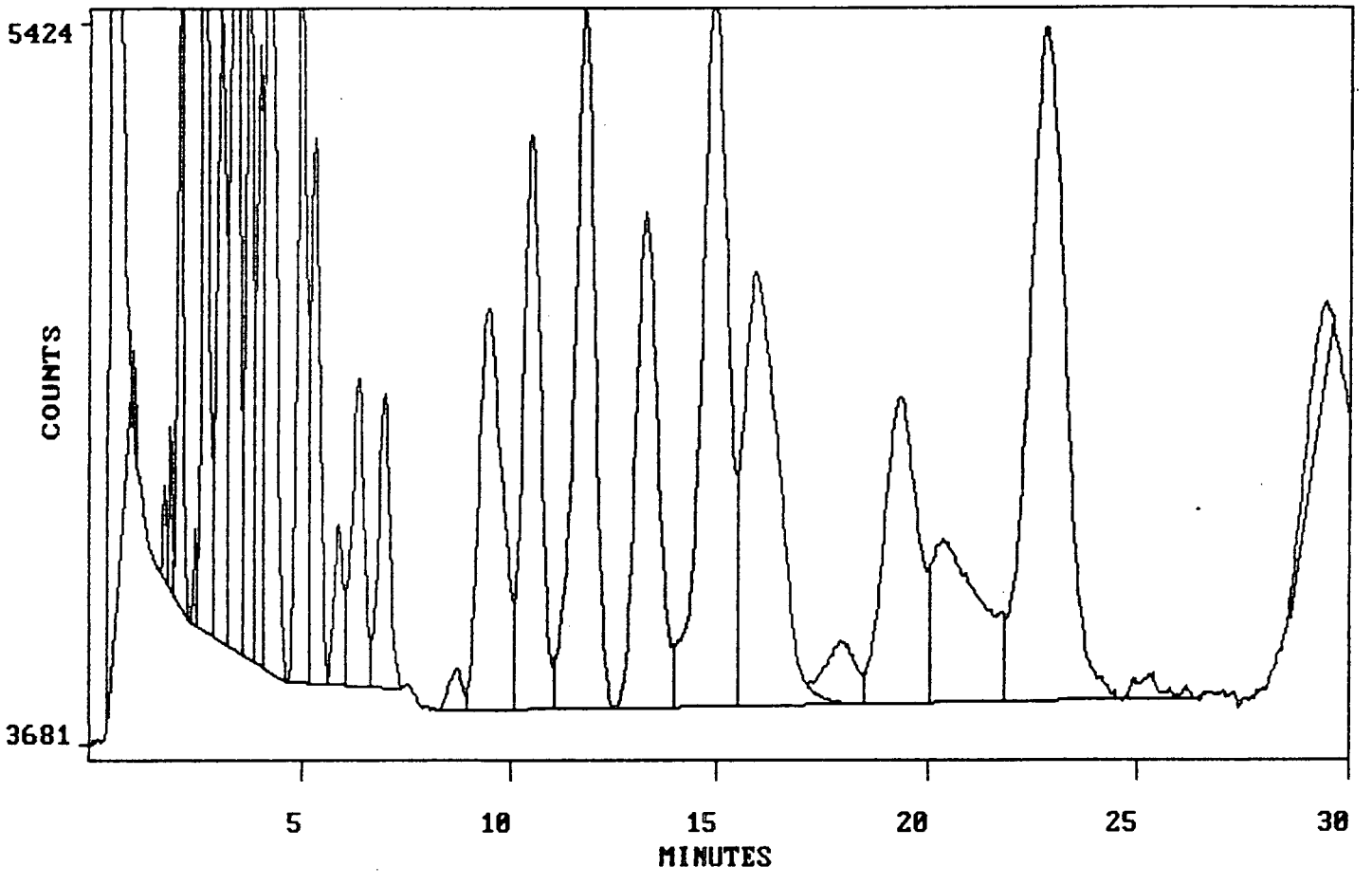
PS 1735
Arochlor 1260
1016

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:08:46:23 Date:WED 08 OCT 86

Time:14:54:57 Date:MON 06 OCT 86
Method:PEST2

FILE: PEST2251 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



72

Channel #.....4 Time:15:25:43 Date:MON 06 OCT 86
Run #5 of 100

Sample name.....
Data file.....DAT257:PEST2251
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....1.5% OV-17 + 1.95% OV-210 on 100/120 CHROMOSORB WHP
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....14:54:57 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..30
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.583			87.368	5496770	898421	BB
2	1.067			0.010	605	165	BB
3	1.804			0.021	1344	225	BV
4	1.941			0.036	2271	397	VV
5	2.176			0.247	15568	2149	VB
6	2.530			0.024	1504	234	BV
7	2.723			0.480	30211	3387	VV
8	3.134			0.369	23205	1558	VV
9	3.453			0.895	56300	5573	VV
10	3.764			0.381	23950	2232	VV
11	4.017			0.237	14890	1514	VV
12	4.244			0.575	36191	2167	VB
13	4.978			0.437	27505	1817	BV
14	5.305			0.309	19461	1318	VV
15	5.858			0.095	5962	388	VV
16	6.349			0.242	15197	746	VV
17	6.960			0.211	13246	705	VB
18	8.728			0.036	2293	96	BV
19	9.503			0.609	38311	962	VV
20	10.524			0.620	39015	1380	VV
21	11.819			0.918	57759	1695	VB
22	13.303			0.703	44205	1188	BV

72°

23	14.965	1.219	76717	1723	VV
24	15.941	0.929	58463	1034	VE
25	18.033	0.117	7373	146	EV
26	19.396	0.647	40681	729	VV
27	20.422	0.497	31256	387	VV
28	22.904	1.564	98389	1608	VB
29	25.367	0.038	2398	53	BB
30	29.526	0.167	10481	97	BB
TOTALS		100.000	6291521		

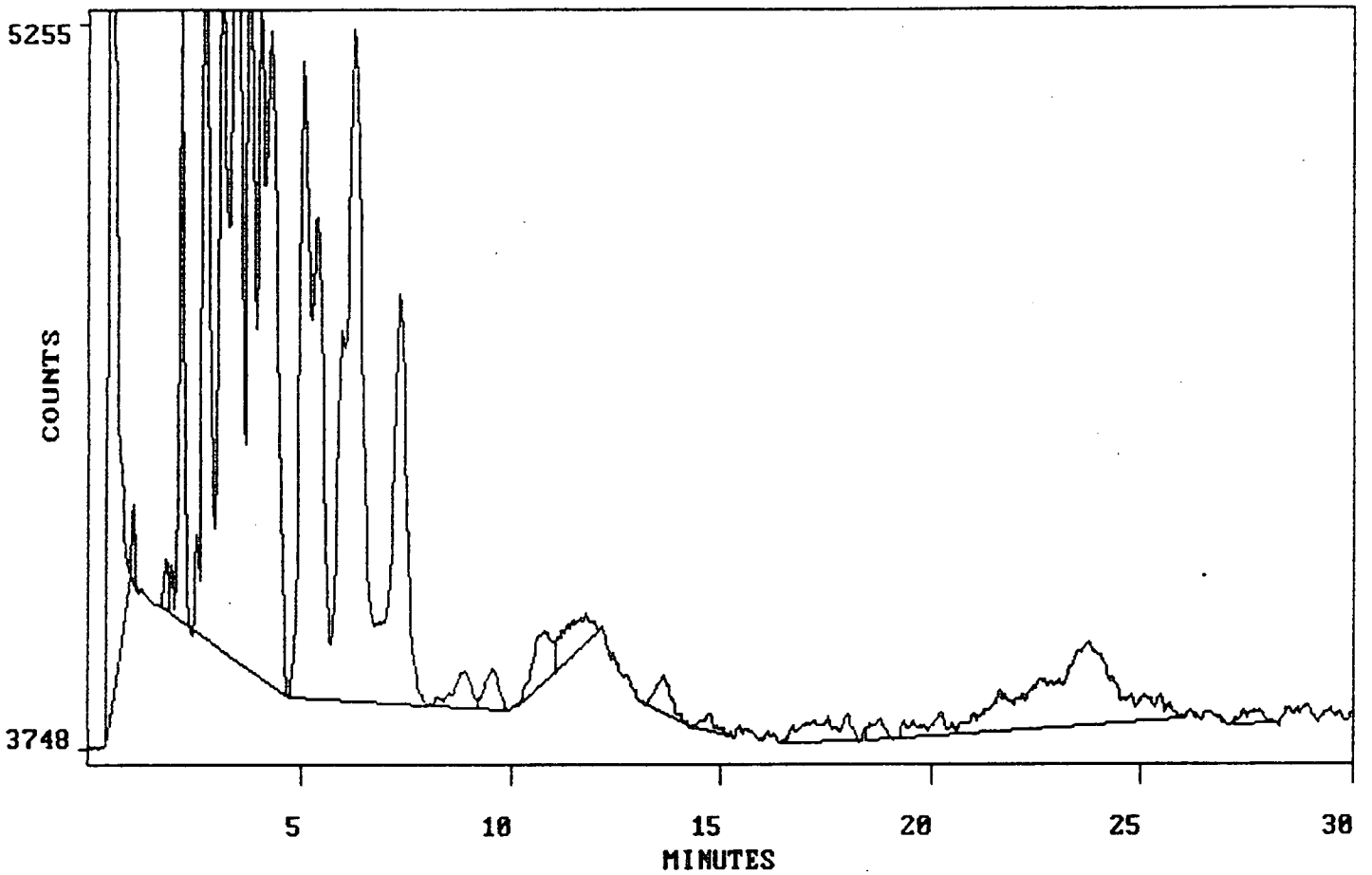
PS 1738
AROCLOR 1242 STD MIX

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:17:22:54 Date:FRI 10 OCT 86

Time:15:27:38 Date:MON 06 OCT 86
Method:ARO1242C

FILE: PEST2252 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



72

Sample name.....
Data file.....PEST2252
Method name.....AR01242C

Author.....LAL
Instrument.....Tracor 550 - ECD
Column.....1.5% OV-17/1.95% OV-210 on 100/120 CHROMOSORB WHP
Notes.....Reintegration of Aroclors

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....15:27:38 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..16
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

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METHOD NOT CALIBRATED!

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AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.566			90.738	3146120	753994	BB
2	1.088			0.021	732	169	BB
3	1.843			0.020	679	111	BV
4	3.512			4.832	167538	4921	VB
5	6.266			2.929	101539	1396	BB
6	8.907			0.066	2297	76	BV
7	9.584			0.056	1941	82	VB
8	10.809			0.096	3337	100	BV
9	11.802			0.090	3136	54	VB
10	13.635			0.053	1835	72	BB
11	14.755			0.021	735	33	BB
12	18.082			0.091	3139	48	BB
13	18.833			0.031	1080	35	BB
14	20.233			0.125	4344	39	BV
15	23.860			0.806	27945	162	VB
16	27.778			0.025	872	25	BB
TOTALS				100.000	3467269		

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726

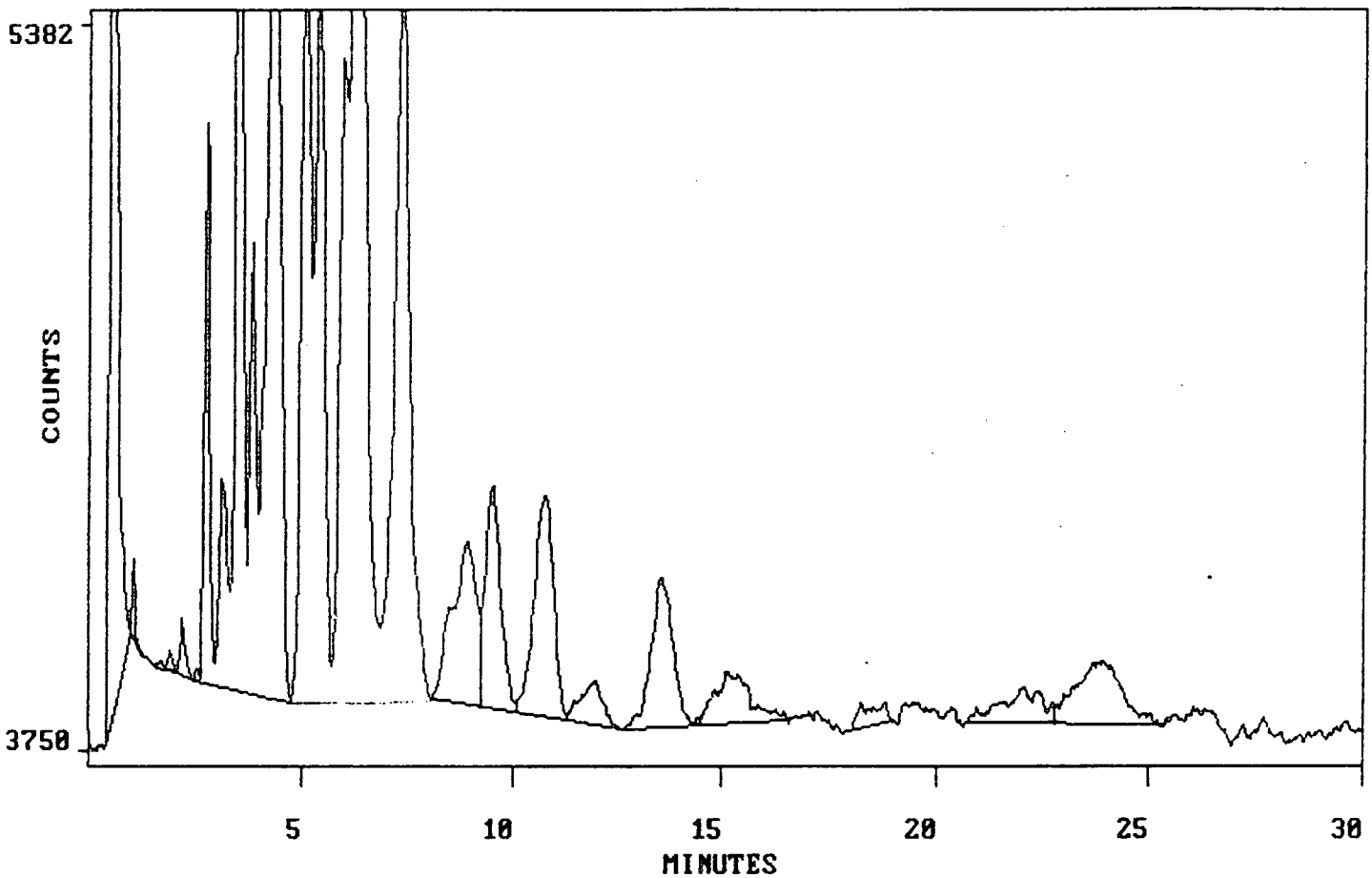
PS 1741
AROCLOR 1248 STD MIX

Time:17:38:15 Date:FRI 10 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:16:05:33 Date:MON 06 OCT 86
Method:ARO1248C

FILE: PEST2253 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



729

Channel # . REINT Time:17:36:49 Date:FRI 10 OCT 86

Sample name . .....
Data file.... .....PEST2253
Method name.....ARO1248C

Author.....MLR
Instrument.....Tracor 550 - ECD
Column .....~~1.5% SP-2250/1.95% SP-2401 on 100/120~~ 1.5% OV-17/1.95% OV-210 ON 100/120 CHROMOSORB WHP
Notes .....Reintegration of Aroclors

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....16:05:33 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....1000
peaks found..15
Vol Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.568			94.840	3667390	816724	BB
2	2.230			0.026	1012	127	BB
3	3.523			2.972	114915	3707	BB
4	8.943			0.386	14910	363	BV
5	9.538			0.327	12630	497	VV
6	10.793			0.413	15957	494	VV
7	11.970			0.091	3515	95	VB
8	13.600			0.306	11833	326	BV
9	15.181			0.178	6900	114	VB
10	18.851			0.049	1898	38	BB
11	22.110			0.137	5309	75	BV
12	23.965			0.275	10644	136	VB
TOTALS				100.000	3866913		

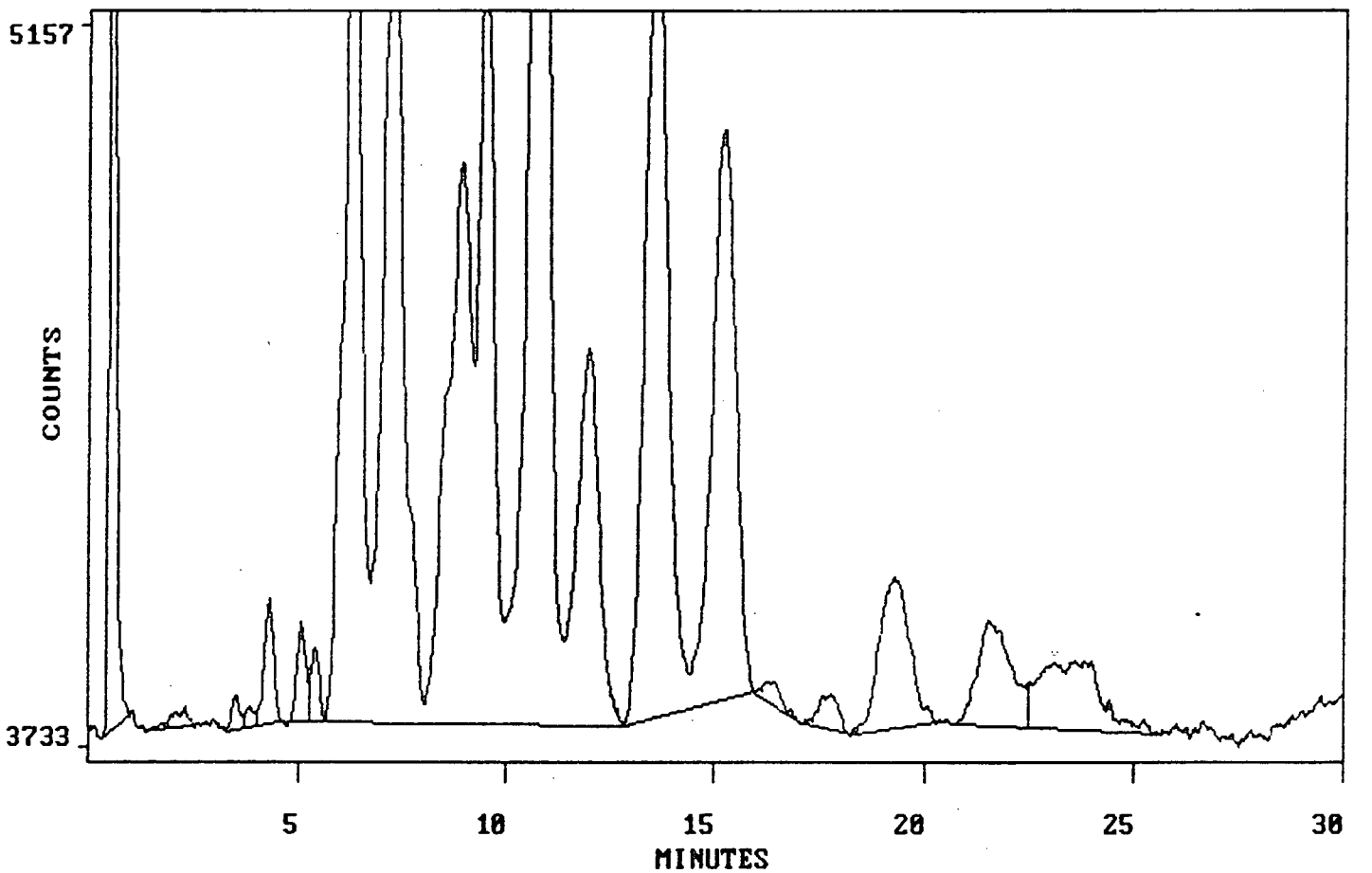
PS1747
AROCHLOR 1254 STD MIX.

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:13:32:56 Date:MON 13 OCT 86

Time:16:38 31 Date:MON 06 OCT 86
Method:ARO1254C

FILE: PEST2254 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



Channel #.....REINT Time 13:31:50 Date:MON 13 OCT 86

Sample name.....
Data file.....PEST2254
Method name.....ARO1254C

Author.....LAL
Instrument.....Tracor 550 - ECD
Column.....1.5% SP-2250/1.95% SP-2401 on 100/120 CHROMOSORB WHP
Notes.....Reintegration of Aroclors

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....16:38:31 Acq. date....MON 06 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
                  Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..13
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.562			86.665	3113612	719727	BB
2	2.326			0.028	1012	42	BB
3	3.513			0.024	873	68	BV
4	3.872			0.016	588	41	VV
5	4.309			0.104	3741	246	VB
6	5.056			0.079	2855	196	BV
7	10.775			8.909	320073	2619	VB
8	13.570			2.967	106584	1682	BB
9	16.356			0.035	1272	41	BB
10	17.783			0.061	2206	65	BB
11	19.335			0.406	14604	291	BB
12	21.636			0.329	11837	203	BV
13	23.750			0.374	13439	130	VB
TOTALS				100.000	3592696		

73

PS1738 PS 1738

CONFIRMATORY COLUMN

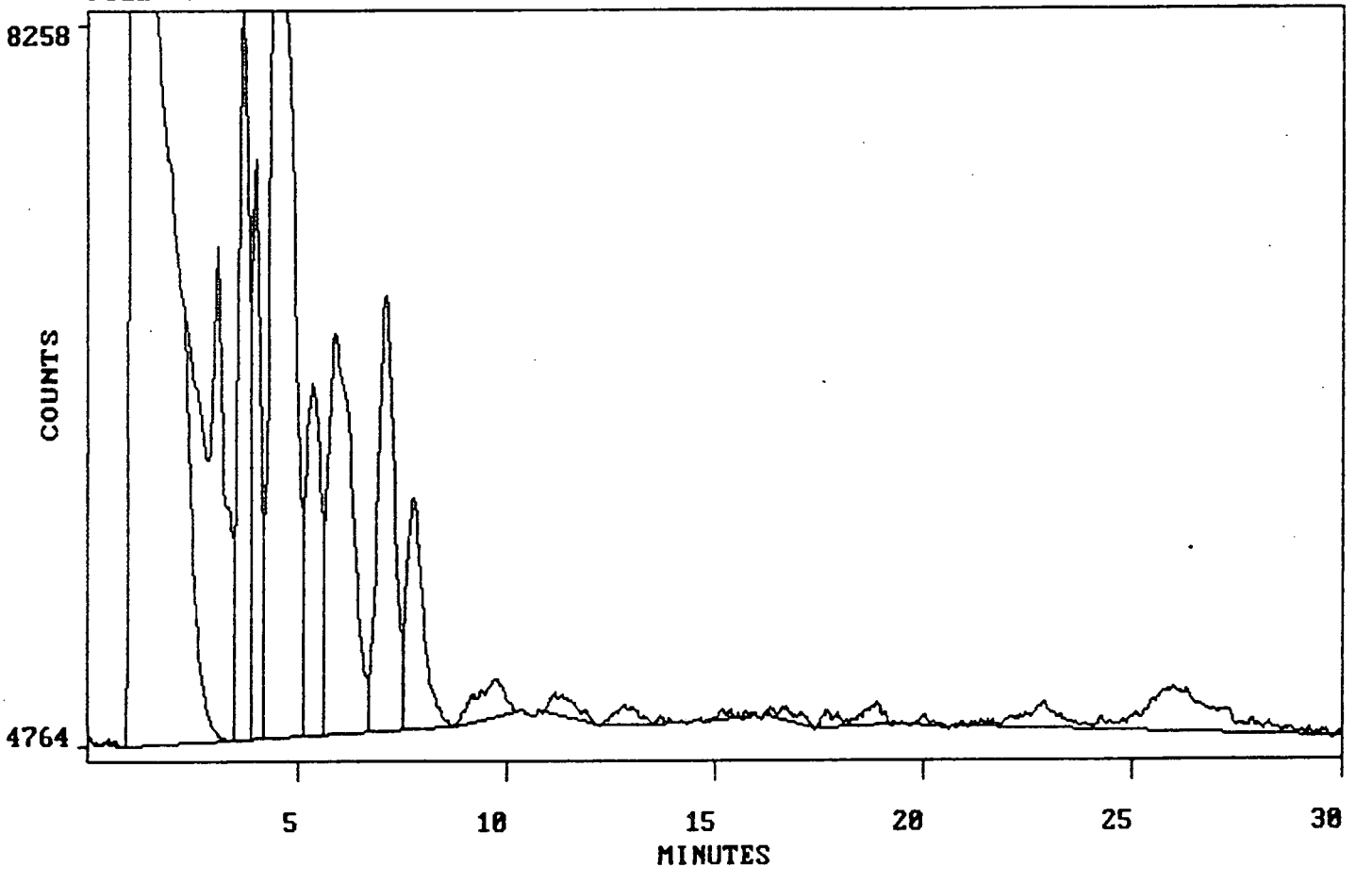
AROCLOR 1242 STD

Time:16:02:45 Date:WED 08 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:14:14:53 Date:WED 08 OCT 86
Method:PEST2

FILE: 1:PEST2279 SCALE: 250 RANGE (MIN.): 0.03 TO 30.00



233

Channel #.....4 Time:14:46:15 Date:WED 08 OCT 86
Run #4 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2279
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G 3% SP2100 on 100/120 SUPELCOPORT
Notes.....~~Primary~~ Column Runs
CONFIRMATORY

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....14:14:53 Acq. date....WED 08 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..21
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

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METHOD NOT CALIBRATED!

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AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	1.196			95.189	12418463	873695	BE
2	3.113			0.652	85079	2380	EV
3	3.712			0.453	59129	3743	VV
4	3.998			0.307	40040	2802	VV
5	4.507			1.333	173853	5957	VV
6	5.369			0.324	42282	1702	VV
7	5.872			0.579	75591	1937	VV
8	7.111			0.465	60606	2099	VV
9	7.812			0.242	31589	1100	VB
10	9.776			0.067	8804	183	BB
11	11.236			0.033	4344	98	BB
12	12.852			0.026	3350	90	BB
13	15.156			0.008	1051	37	BB
14	16.378			0.016	2074	32	BB
15	17.726			0.014	1865	67	BV
16	18.891			0.026	3395	98	VB
17	20.084			0.007	975	47	BB
18	22.927			0.058	7625	111	BV
19	26.045			0.199	25957	207	VB
TOTALS				100.000	13046072		

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PS1747
CONFIRMATORY
COLUMN

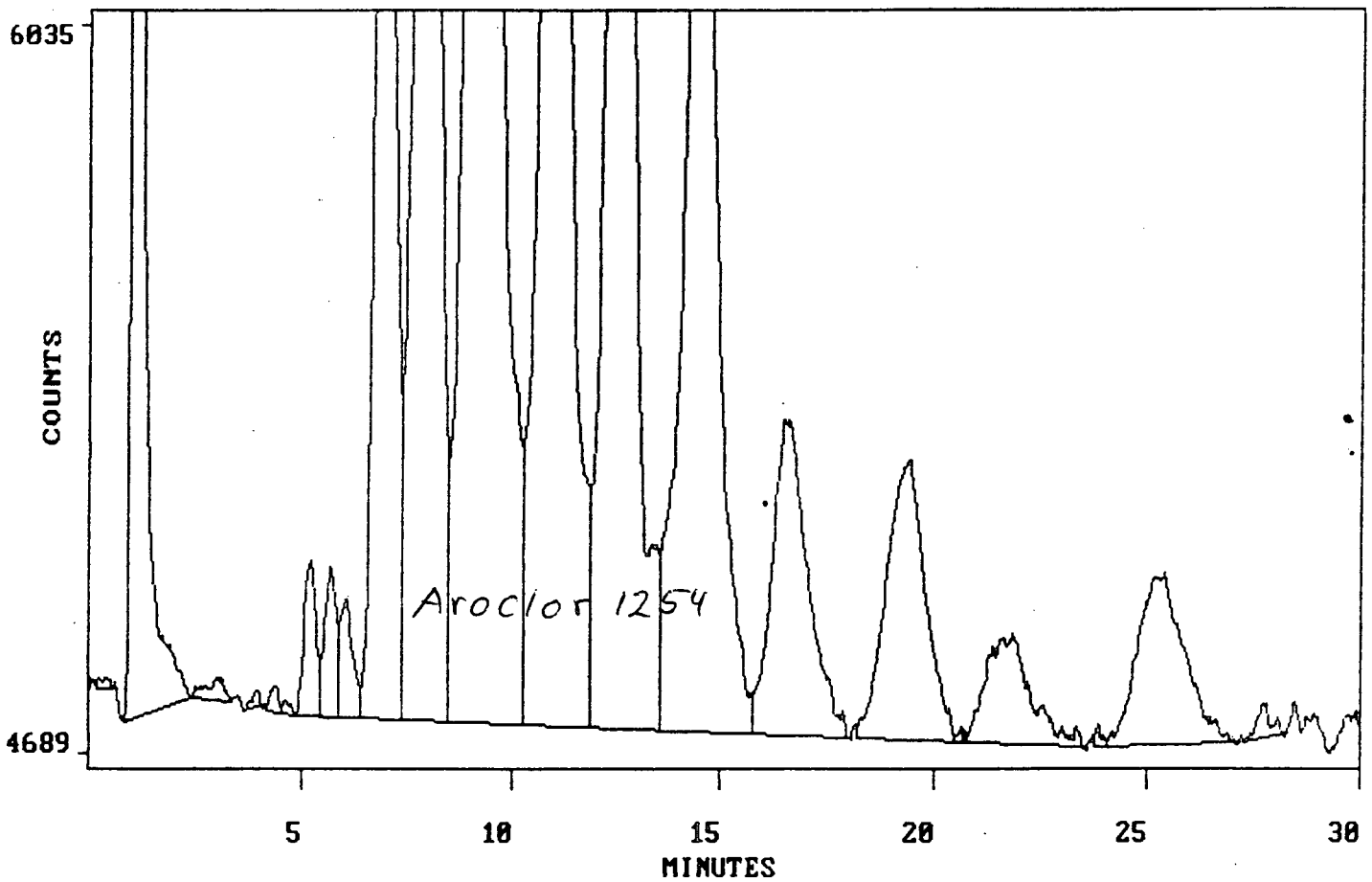
Aroclor 1254

Time:16:00:32 Date:WED 08 OCT 86

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:13:39:56 Date:WED 08 OCT 86
Method:PEST2

FILE: 1:PEST2278 SCALE: 500 RANGE (MIN.): 0.03 TO 30.00



ERROR: :Unknown command

Channel #.....4 Time:14:11:10 Date:WED 08 OCT 86
Run #3 of 100

Sample name.....NJDEP
Data file.....DAT258:PEST2278
Method name.....PEST2

Author.....LAL
Instrument.....ECD
Column.....G
Notes.....Primary Column Runs

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....13:39:56 Acq. date....WED 08 OCT 86
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.75 uv/sec.

Area reject....500
peaks found..20
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	1.070			85.740	5635115	673931	BB
2	3.033			0.020	1294	43	BB
3	4.383			0.009	611	45	BV
4	5.219			0.090	5887	290	BV
5	5.675			0.077	5040	280	VV
6	6.037			0.069	4520	221	VV
7	6.905			1.530	100561	3726	VV
8	8.001			1.568	103076	2353	VV
9	9.476			2.607	171345	2901	VV
10	11.005			2.727	179204	4258	VV
11	12.572			2.287	150310	3514	VV
12	14.518			1.672	109919	1959	VV
13	16.600			0.509	33421	578	VB
14	19.409			0.493	32432	510	BV
15	21.905			0.220	14446	193	VB
16	25.386			0.362	23763	310	BB
17	27.807			0.021	1362	53	BB
TOTALS				100.000	6572306		