UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON, TEXAS 77074

Ref. Case No. 7770

Site Name South Cavalcade

Date: 9-22-87

Subject: CLP Data Review

From: Michael Daggett, Chief, Organic Lab Section; 6E-HL

To: Keith Bradley, Hazardous Waste Section; 6E-SH

A review of the laboratory raw data for the reference site has been completed by members of the Laboratory Section. Samples were:

INORGANIC:

ORGANIC: FD259
FD260

The data was found:

(✓) Acceptable

( ) Provisional; use of data requires caution. Problems are noted in Review Summary.

( ) Unacceptable; data should not be used. Problems are noted in Review Summary.

Questions regarding the review can be addressed to me.

Attachments

cc: David Stockton, 6E-HL
Duane Geuder, WH-548A

1012321

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ORGANIC QA CHECKLIST

Site South Cavalcade

Contract No. 68-01-7141

Case No. 7770

Contractor GSRI

Reviewed By M.C. RITTER

Matrix WATER

Date 9/14/87

Acct. # 77FAJNA6 SF 7FAU56

Sample No. FD259

FD 260

OVERALL COMMENTS (To Be Completed By EPA PERSONNEL)

	VOA (NOT REQUIRED)	B/N	A	Pest (NR)	Other
1. Holding Times		A	A		
2. Tuning/Performance		A	A		
3. Calibrations		A	A		
4. Blanks		A	A		
5. Surrogates		A	A		
6. Matrix Spike/Dup		A	A		
7. Compound Identity		A	A		
8. Case Assessment		A	A		

COMMENTS OR CLARIFICATIONS (See Attached)

A - Acceptable - All items delivered; all criteria met.

P - Provisional - Data usable; some non-essential review items missing or criteria were not met.

U - Unacceptable - Data unusable; essential review items missing or criteria not met.

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COMMENTS/CLARIFICATIONS
REGION VI CLP QA REVIEW

Case 7770 Site South Cavalcade Lab GSRI

The following is a summary of sample qualifiers used by Region VI in reporting this CLP data:

No.		Acceptable	Provisional	Unacceptable
VOA	NR			
BN		2	0	
A		2	0	
Pest	NR			
Other				

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Comments:

Case data acceptable-package consisted of two water samples for BNA analysis only; no VOA nor Pesticdes were required.

Narrative stated that due to poor matrix spike recoveries for FD259, the QC spikes were redone. The SMO traffic report showed that sample FD260 was a field blank.

Evaluation Criteria:

1. Holding times-acceptable.
2. Instrument performance and tuning-acceptable. Analytical sequence good.
3. Calibrations-acceptable. All initial and continuing calibration data was available and met all requirements. All internal standard areas for analyses done after the daily standard met the +100%, -50% criteria.
4. Blanks-acceptable.
5. Surrogates-Recoveries were good.
6. Matrix spikes-acceptable. Rerun data was submitted and MS/MSD was good.
7. Compound identity/sample results- Nothing of significance found. One TIC compound, an ester, appears to be non-sample related; this has been seen in prior BNA data.
7. Case assessment-acceptable.

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Semivolatile Fraction

Traffic Reports

Case 7770

004625

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 – 703/557-2490 • FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
FD 260

① Case Number: 7770

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

X Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

X Water
___ Soil/Sediment

④ Ship To:
Gulf South Research Inst.
5010 Lakeshore Johnson Rd.
New Orleans, LA 70126
Attn: Cindy Palazzo
[redacted]
Transfer
Ship To:

⑤ Regional Office: VI

Sampling Personnel:
Lynn Mave
(Name)
(Phone)

Sampling Date:
(Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	100 oz.
Water (VOA)		
Soil/Sediment (Extractable)		
Soil/Sediment (VOA)		
Other		

⑪ Analysis Lab:
Rec'd by: K. Albale
Date Rec'd: 8/5/87
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

PARAMETER:	YES	NO
ICE PRESENT?	___	✓
BOTTLES BROKEN?	___	✓
EPA TAG PRESENT?	✓	___
SHIPPING SEALS?	✓	___
CONTAINER SEALS?	✓	___
CUSTODY FORM OK?	✓	___
LABELS ACCURATE?	✓	___
NOTES/COMMENTS: None		✓

⑦ Shipping Information

Federal Express
Name of Carrier

8/4/87
Date Shipped:

4568407994
Airbill Number:

⑧ Sample Description

___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
X Other (specify) Field Blank

⑨ Sample Location

Field Blank

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

LAB COPY FOR RETURN TO SMO

004626

004626

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 - 703/557-2490 • FTS/557-2490

ORGANICS TRAFFIC REPORT

Sample Number
FD 259

① **Case Number:** 7770

Sample Site Name/Code:

② **SAMPLE CONCENTRATION** (Check One)

X Low Concentration
___ Medium Concentration

③ **SAMPLE MATRIX** (Check One)

X Water
___ Soil/Sediment

④ **Ship To:**
Gulf South Research Inst.
5010 LaRoy Johnson Rd.
New Orleans, LA 70126
Attn: Cindy Palazzo

Transfer
Ship To:

⑤ **Regional Office:** III

Sampling Personnel:
Leon Marcum
(Name)
(Phone)

Sampling Date:
(Begin) (End)

⑥ **For each sample collected specify number of containers used and mark volume level on each bottle.**

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1600 ml
Water (VOA)		
Soil/Sediment (Extractable)		
Soil/Sediment (VOA)		
Other		

⑦ **Shipping Information**

Federal Express
Name of Carrier

8/4/87
Date Shipped:

1564427994
Airbill Number:

⑪ **Analysis Lab:**
Rec'd by: K. Calhoun
Date Rec'd: 8/5/87
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

PARAMETER:	YES	NO
ICE PRESENT?	✓	
BOTTLES BROKEN?		✓
EPA TAG PRESENT?	✓	
SHIPPING SEALS?	✓	
CONTAINER SEALS?	✓	
CUSTODY FORM OK?	✓	
LABELS ACCURATE?	✓	
NOTES/COMMENTS: (if non		

⑧ **Sample Description**

___ Surface Water
X Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other (specify) N/A

⑨ **Sample Location**

SCK-1102-002

⑩ **Special Handling Instructions:**
(e.g., safety precautions, hazardous nature)

LAB COPY FOR RETURN TO SMO

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004627

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Sample Data Package

EPA Contract No. 68-01- 7141
GSRI Project No. 6200-3020

Case 7770

Episode (s): BAB

004628

Presented to:

U.S. Environmental Protection Agency
Sample Management Office
Control Laboratory Program
Alexandria, Virginia 22314

Presented by:

Analytical Chemistry Department
Gulf South Research Institute
P.O. Box 26518
New Orleans, Louisiana 70186

August 31, 1987

gsri GULF SOUTH RESEARCH INSTITUTE
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Case Narrative

Case 7770

004629

Gulf South Research Institute
Case 7770

EPA Contract No. 68-01-7141
SDG No. FD-259

"Case Narrative"

Case 7770 consisted of two (2) water samples which were received by Gulf South Research laboratory on August 5, 1987 and logged in as GSRI Episode BAB. The sample were identified as follows: FD-259 FD-260

The samples were analyzed for semivolatile organics only. The matrix spike/duplicate spikes for sample FD-259 showed poor recoveries for several matrix spike compounds, so they were reextracted and reanalyzed. The original runs are being submitted only to demonstrate compliance with contractually specified holding times. (The reanalyses are not being billed).

The enclosed data are being submitted under the revised (7/87) CLP Protocols. Diskette deliverables are also enclosed.

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as vertified by the following signature.

Richard R. Whitney

Richard R. Whitney, Ph.D.
Senior Research Chemist

8/31/87
Date

004630

ANALYTICAL CHEMISTRY DEPARTMENT

PERSONNEL SIGNATURE RECORD

NAME	POSITION	DATE	SIGNATURE	INITIALS
James E. Henderson	Project Manager	4/15/87	James E. Henderson	JEH
Richard R. Whitney	GC/MS Lab Manager	4/15/87	Richard R. Whitney	RRW
~~K.M. Bagawandoss~~	~~Senior Research Chemist~~	~~4/15/87~~	~~Bagawandoss~~	~~KMB~~ mcf 8/21/87
Cindy Palazzo	Report Center Manager	4/15/87	Cindy Palazzo	CP
Maude Young	Administrative Assistant	4/15/87	Maude Young	MY
~~Valerie Ybarzabal~~	~~Administrative Assistant~~	~~4/15/87~~	~~Valerie Ybarzabal~~	~~VY~~ mcf 5/18/87
Shirley Roper	Administrative Assistant	4/15/87	Shirley B. Roper	SBR
Steven Ruiz	GC Operator	4/15/87	Steven Ruiz	SRR
~~Sylvia Leibe~~	~~Chemist~~	~~4/15/87~~	Sylvia Leibe	SL mcf 8/21/87
Glynn Kron	Laboratory Technician	4/15/87	Glynn Kron	G.K.
Chris Schenk	Laboratory Technician	4/15/87	Chris F. Schenk	CS
Keith Rhode	Inorganic Lab Manager	4/15/87	Keith J. Rhode	KJR
Shawn McTopy	Laboratory Technician	4/20/87	Shawn K. McTopy	SKM
Mike Pearson	Laboratory Technician	4/15/87	Michael Pearson	MP
John McTopy	Prep Laboratory Manager	4/15/87	John McTopy	JMcT
Al Jarquin	Laboratory Technician	4/15/87	Al Jarquin	AJ
Ragini Isham	Laboratory Technician	4/15/87	Ragini Tal Isham	RI mcf 4/15/87
Marie Sears	Laboratory Techinican	4/15/87	Marie L. Sears	MLS
Darryl Melcancon	Laboratory Technician	4/15/87	Darryl Melcancon	DM
Hari Singh	Mass Spec Operator	4/15/87	H. Singh	HS
Randal Myers	GC Operator Manager	4/20/87	Randal B. Myers	RBM

GSRI-69b

ACD 1 R1 9/84
~~UP-DATED 4/15/87~~

004631

ANALYTICAL CHEMISTRY DEPARTMENT

PERSONNEL SIGNATURE RECORD

NAME	POSITION	DATE	SIGNATURE	INITIALS
~~John Sconza~~	~~Laboratory Technician~~	~~4/20/87~~	~~John Sconza~~	~~JS~~ mj 5/18/87
Homer J. Sheeler	Laboratory Technician	5/18/87	Homer J. Sheeler Jr.	HJS
Sherry Phillips	Report Specialist	7/14/87	Sherry Phillips	SP
Shelley Antoine	Laboratory Technician	7/21/87	Shelley Antoine	SA
Kevin Kern	Laboratory Technician	8/21/87	Kevin J. Kern	K.J.K.

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GSRI-69b

ACD 1 R1 9/84

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Semivolatile Fraction

QC Summary

Case 7770

004633

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	FD259	65	66	86	53	55	66		0
02	FD260	69	65	92	67	29	61		0
03	FD259MSDRE	69	65	81	64	58	68		0
04	FD259MSRE	61	57	70	57	51	61		0
05	SBLK	79	68	90	66	26	46		0
06	SBLK	64	60	81	69	69	71		0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl	(33-141)
S4 (PHL)	= Phenol-d5	(10-94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

004634

FORM II SV-1 1/87 Rev.

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix Spike - EPA Sample No.: FD259

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	200	0	124	62	12- 86
2-Chlorophenol	200	0	128	64	27-123
1,4-Dichlorobenzene	100	0	48.6	49	36 97
N-Nitroso-di-n-prop.(1)	100	0	52.2	52	41 116
1,2,4-Trichlorobenzene	100	0	54.0	54	39 98
4-Chloro-3-methylphenol	200	0	115	58	23 97
Acenaphthene	100	0	74.0	74	46-118
4-Nitrophenol	200	0	147	74	10- 80
2,4-Dinitrotoluene	100	0	85.6	86	24- 96
Pentachlorophenol	200	0	101	51	9-103
Pyrene	100	0	88.6	89	26-127

004635

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	200	137	69	-11	42	12- 86
2-Chlorophenol	200	141	71	-10	40	27-123
1,4-Dichlorobenzene	100	63.4	63	-25	28	36 97
N-Nitroso-di-n-prop.(1)	100	48.4	48	8	38	41 116
1,2,4-Trichlorobenzene	100	78.8	79	-38 *	28	39 98
4-Chloro-3-methylphenol	200	133	67	-14	42	23 97
Acenaphthene	100	84.6	85	-14	31	46-118
4-Nitrophenol	200	157	79	-7	50	10- 80
2,4-Dinitrotoluene	100	87.2	87	-1	38	24- 96
Pentachlorophenol	200	125	63	-21	50	9-103
Pyrene	100	104	104	-16	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: FD259 CASE:7770
45/4/300@12 DB-5 FSCC 1MICRON 30METERS

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Lab File ID: SVBABBLK Lab Sample ID: BABBLK

Date Extracted: 08/05/87 Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/14/87 Time Analyzed: 1829

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: C

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	FD259	BAB02	SVBAB02	08/14/87
02	FD260	BAB04	SVBAB04	08/14/87

COMMENTS: [illegible] BAB BLANK#1 LOW WATER CASE:7770
45/4/300@12 DB-5 FSCC 1MICRON 30METERS

004636

FORM IV SV 1/87 Rev.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Lab File ID: SVBABBLK2 Lab Sample ID: SVBABBLK2

Date Extracted: 08/19/87 Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/24/87 Time Analyzed: 2043

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: C

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	FD259MSDRE	BAB01MSD	SVBAB01MSD	08/24/87
02	FD259MSRE	BAB01MS	SVBAB01MS	08/24/87

COMMENTS: SBLK BAB BLANK#2 LOW WATER CASE:7770
45/4/30001L DB-5 FSCC 1MICRON 30METERS

004637

FORM IV SV 1/87 Rev.

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Lab File ID: CP080587A DFTPP Injection Date: 08/05/87

Instrument ID: C DFTPP Injection Time: 1028

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.3
68	Less than 2.0% of mass 69	(0.0)1
69	Mass 69 relative abundance	38.4
70	Less than 2.0% of mass 69	(0.0)1
127	40.0 - 60.0% of mass 198	51.5
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	25.8
365	Greater than 1.00% of mass 198	2.03
441	Present, but less than mass 443	11.3
442	Greater than 40.0% of mass 198	87.6
443	17.0 - 23.0% of mass 442	(18.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD20	CS080587A	CS080587A	08/05/87	1057
02	SSTD50	CS080587B	CS080587B	08/05/87	1144
03	SSTD80	CS080587C	CS080587C	08/05/87	1312
04	SSTD120	CS080587D	CS080587D	08/05/87	1354
05	SSTD160	CS080587E	CS080587E	08/05/87	1437

004638

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Lab File ID: CP081487A DFTPP Injection Date: 08/14/87

Instrument ID: C DFTPP Injection Time: 1408

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.6
68	Less than 2.0% of mass 69	(0.0)1
69	Mass 69 relative abundance	38.4
70	Less than 2.0% of mass 69	(0.0)1
127	40.0 - 60.0% of mass 198	52.5
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.7
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1.00% of mass 198	1.55
441	Present, but less than mass 443	7.7
442	Greater than 40.0% of mass 198	67.7
443	17.0 - 23.0% of mass 442	(20.2)2

1-Value is % mass 69 2-Value is % mass 442

004639

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SVSTD50	CS081487A	08/14/87	1427
02	FD259	BAB02	SVBAB02	08/14/87	1538
03	FD260	BAB04	SVBAB04	08/14/87	1748
04	SBLK	BABBLK	SVBABBLK	08/14/87	1829

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Lab File ID: CF082487B DFTPP Injection Date: 08/24/87

Instrument ID: C DFTPP Injection Time: 1339

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.8
68	Less than 2.0% of mass 69	(0.0)1
69	Mass 69 relative abundance	42.0
70	Less than 2.0% of mass 69	(0.0)1
127	40.0 - 60.0% of mass 198	53.6
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.9
275	10.0 - 30.0% of mass 198	23.7
365	Greater than 1.00% of mass 198	2.83
441	Present, but less than mass 443	8.4
442	Greater than 40.0% of mass 198	63.1
443	17.0 - 23.0% of mass 442	(21.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SVSTD50	CS082487B	08/24/87	1552
02	SBLK	SVBABBLK2	SVBABBLK2	08/24/87	2043
03	FD259MSRE	BAB01MS	SVBAB01MS	08/24/87	2127
04	FD259MSDRE	BAB01MSD	SVBAB01MSD	08/24/87	2210

004640

FORM V SV

1/87 Rev.

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Semivolatile Fraction

Sample Data

Case 7770

004641

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD259

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BAB02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SVBAB02

Level: (low/med) LOW Date Received: 08/05/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/05/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/14/87

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/kg) UG/L

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U

004642

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD259

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BAB02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SVBAB02

Level: (low/med) LOW Date Received: 08/05/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/05/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/14/87

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

004643

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
FD259

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BAB02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SVBAB02

Level: (low/med) LOW Date Received: 08/05/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/05/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/14/87

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NOT IDENTIFIED	3.87	5.7	J

004644

SEMI-VOLATILE CALCULATION SHEET

Water

$$\text{Concentration (ug/L)} = \frac{(A_x)(I_s)(V_t)}{(A_{is})(RF)(V_o)(V_i)}$$

A_x = Area of the characteristic ion for the compound to be measured

A_{is} = Area of the characteristic ion for the internal standard

I_s = Amount of internal standard injected in nanograms (ng)

V_o = Volume of water extracted in milliliters (mL) (take into account any dilutions)

V_t = Volume of total extract (Use 2000 uL or a factor of this when dilutions are made. The 200 ul is derived from combining half of the 1 mL BN extract and half of the 1 mL A extract.)

Sediment/soil

$$\text{Concentration (ug/Kg)} = \frac{(A_x)(I_s)(V_t)}{(A_{is})(RF)(V_i)(W_s)(D)}$$

(Dry weight basis)

Where:

A_x, I_s, A_{is} = Same as water above

V_t = Volume of low level total extract (use 1000 uL or a factor of this when dilutions are made. If GPC cleanup is used the volume is 2000 uL. The 1000 uL is derived from concentrating the 8 mL extract to 0.8 mL.)

or V_t = Volume of medium level extract (use 2000 uL or a factor of this when dilutions are made. The 2000 uL is derived from concentrating 5 mL of the 10 mL extract to 1 mL.

V_i = Volume of extract injected (uL)

D = $\frac{100 - \%\ \text{moisture}}{100}$

W_s = Weight of sample extracted (grams)

004645

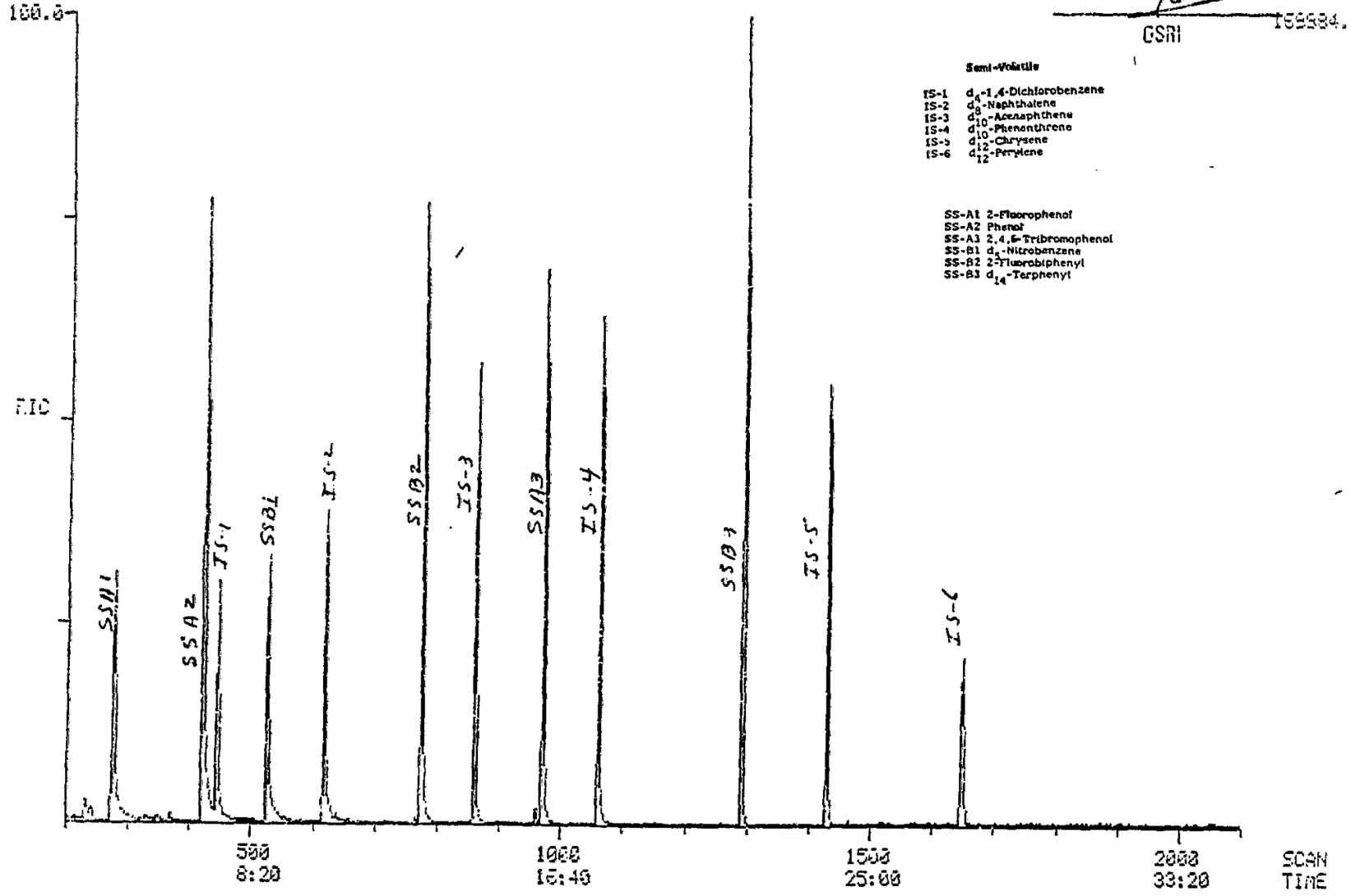
ACD 29 10/84

RIC
08/14/87 15:38:00
SAMPLE: FD259 CASE:7770
CONDS.: 45/4/300012 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 PHSE: U 20, 3

DATA: SVBAB02 #1
CALI: SVBAB02 #1

SCANS 200 TO 2100

REVIEWED
AUG 18 1987
GSRI
159584.



Semi-Volatile

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004646

Quantitation Report File: SVBA002

Data: SVBA002.TI
8/14/87 15:38:00
Sample: FD259 CASE:7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.008
Submitted by: EPA Analyst: SA Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	446	7:26	1	1.000	A BB	36304	40.000 UG/L	4.98
2	136	619	10:19	2	1.000	A BB	123117.	40.000 UG/L	4.98
3	164	861	14:21	3	1.000	A BB	83325.	40.000 UG/L	4.98
4	188	1062	17:42	4	1.000	A BB	137653.	40.000 UG/L	4.98
5	240	1430	23:50	5	1.000	A BB	112018.	40.000 UG/L	4.98
6	264	1648	27.28	6	1.000	A BB	64168.	40.000 UG/L	4.98
7	112	276	4:36	1	0.619	A BB	98360.	108.781 UG/L	13.54
8	99	422	7:02	1	0.746	A BB	225626.	105.928 UG/L	13.19
9	82	526	8:46	2	0.850	A BB	82349.	64.957 UG/L	8.09
10	172	776	12.56	3	0.901	A BB	162888.	66.319 UG/L	8.25
11	330	972	16.12	4	0.915	A BB	55569.	131.715 UG/L	16.39
12	244	1293	21:33	5	0.904	A BB	210348.	85.725 UG/L	10.67

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:12	1.03	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:16	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:29	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:49	1.21	0.530	1.17	108.78	50.00	2.167	0.996	2.18
8	6:47	1.04	0.942	1.00	105.93	50.00	4.972	2.347	2.12
9	8:39	1.01	0.843	1.01	64.96	50.00	0.535	0.412	1.30
10	12:55	1.00	0.900	1.00	66.32	50.00	1.564	1.179	1.33
11	16:12	1.00	0.915	1.00	131.72	50.00	0.318	0.121	2.63
12	21:33	1.00	0.904	1.00	85.72	50.00	1.502	0.876	1.71

004647

Library Search
08/14/87 15:38:00 + 3:52
Sample: FD259 CASE:7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Enhanced (S 15B 2N OT)

Data: SVBAB02 # 232
Cali: SVBAB02 # 1

Base m/z: 83
RIC: 3415.

42224 spectra in LIBRARYND searched for maximum PURITY
244 matched at least 6 of the 10 largest peaks in the unknown

Rank	In.	Name
1	3504	CYCLOHEXANE, AZIDO-
2	3643	PROPANENITRILE, 3-[(2-METHYLPROPYL)AMINO]-
3	6169	1,3-BENZODIOXOL-2-ONE, HEXAHYDRO-, CIS-
4	1076	1-PROPENE, 3,3'-OXYBIS-
5	2184	4-PENTENAL, 2-ETHYL-

N/I Av

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H11.N3	125	83	719	813	791
2	C7.H14.N2	126	83	680	841	788
3	C7.H10.O3	142	41	659	692	782
4	C6.H10.O	98	41	654	709	768
5	C7.H12.O	112	41	636	730	734

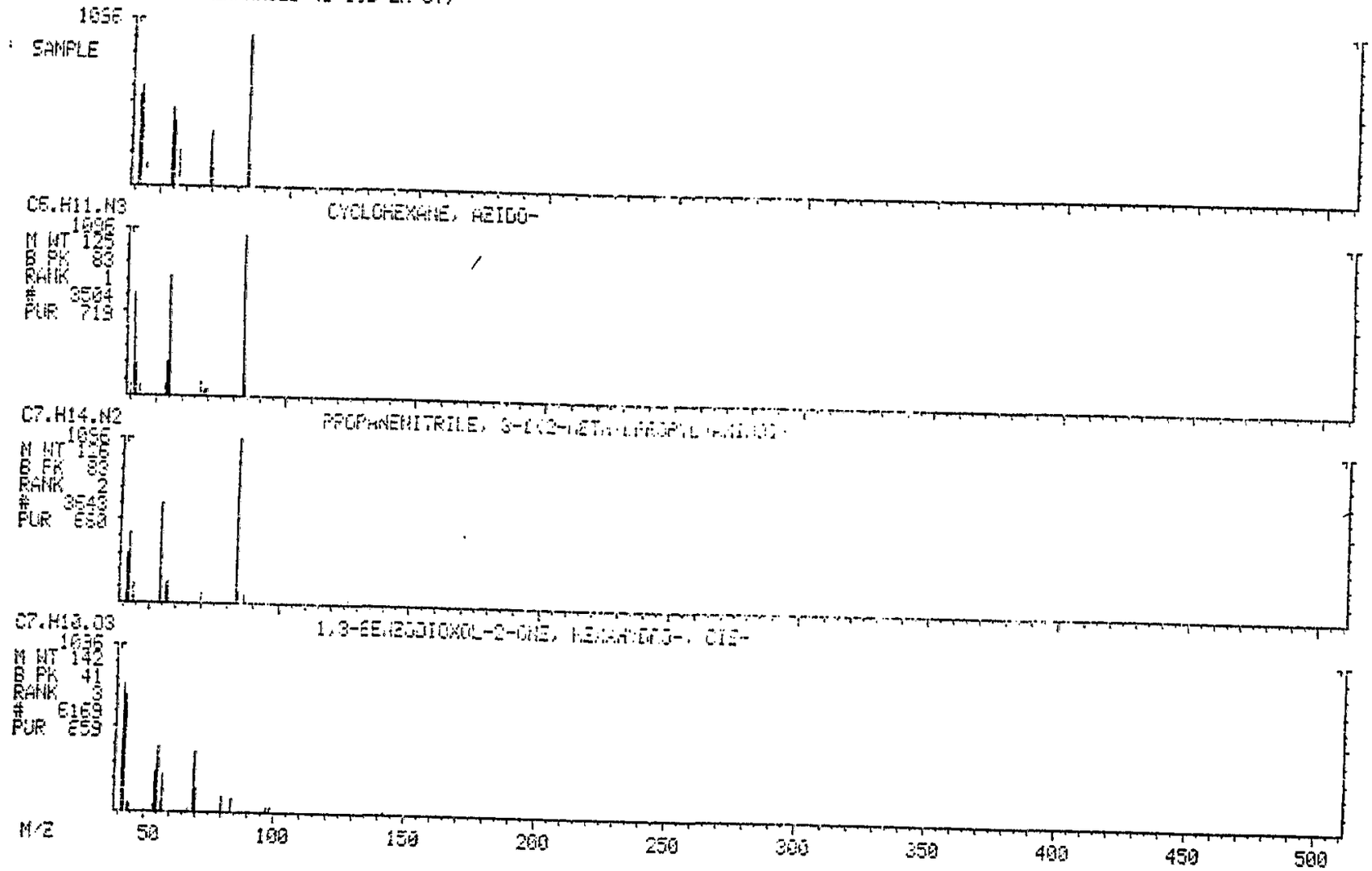
Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	---	---	---	---	19573-22-6
2	---	---	---	---	14278-36-7
3	---	---	---	---	19456-20-3
4	---	---	---	---	557-40-4
5	---	---	---	---	5304-30-8

004648

LIBRARY SEARCH
08/14/87 15:38:00 + 3:52
SAMPLE: FD259 CASE:7770
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
ENHANCED (S 15B 2N 0T)

DATA: SVBAB02 # 232
CALI: SVBAB02 # 1

BASE M/Z: 83
RIC: 3415.

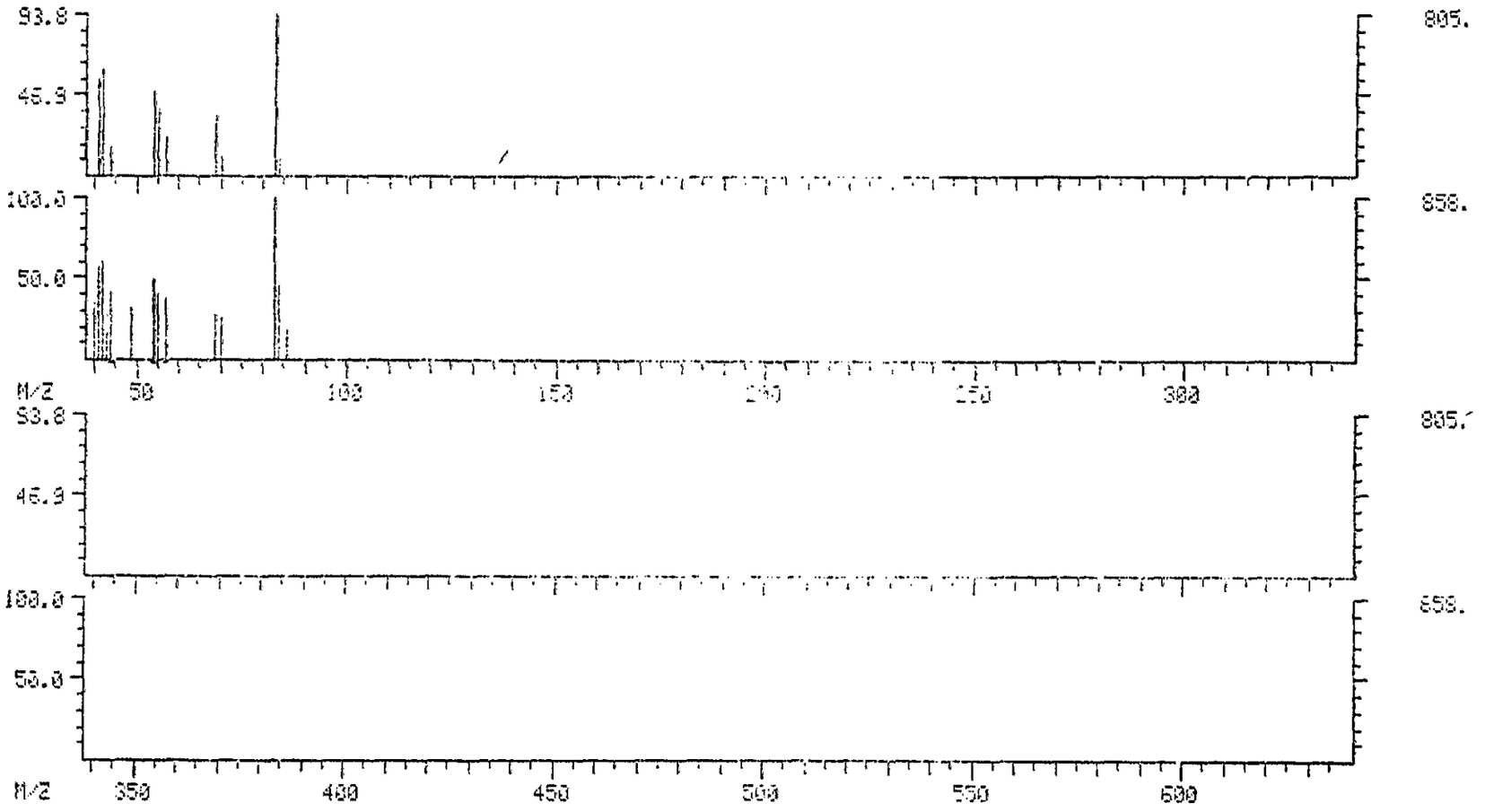


004649

DUAL MASS SPECTRUM
08/14/87 15:38:00 + 3:52
SAMPLE: FD259 CASE:7770
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
ENHANCED (S 15B 2N 0T)

DATA: SVBAB02 #232
CALI: SVBAB02 #1

BASE M/Z: 83/ 83
RIC: 3415./ 5191.



004650

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD260

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BAB04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SVBAB04

Level: (low/med) LOW Date Received: 08/05/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/05/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/14/87

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	0	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U

004651

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD260

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BAB04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SVBAB04

Level: (low/med) LOW Date Received: 08/05/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/05/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/14/87

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

004652

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FD260

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BAB04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SVBAB04

Level: (low/med) LOW Date Received: 08/05/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/05/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/14/87

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NOT IDENTIFIED	13.34	8.1	J
2.	NOT IDENTIFIED	13.80	13	J
3.	NOT IDENTIFIED	15.90	62	J
4. 119-61-9	BENZOPHHENONE	16.10	41	J

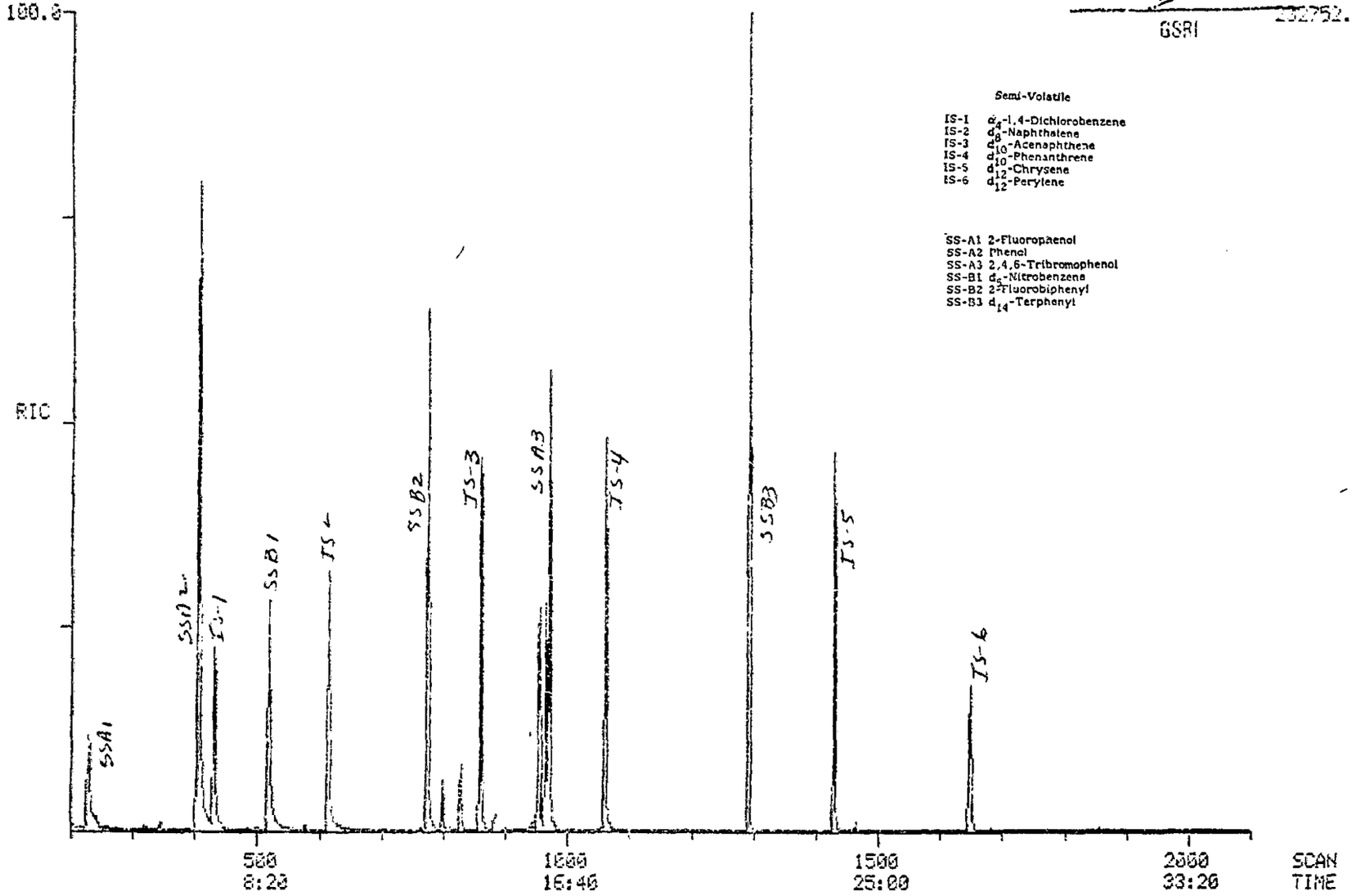
004653

RIC
08/14/87 17:48:00
SAMPLE: FD260 CASE:7770
CONDS.: 45/4/300012 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: N 0, 1.0 J 0 BASE: U 20, 3

DATA: SUBAB04 #1
CALI: SUBAB04 #1

SCANS 200 TO 2100

REVIEWED
AUG 18 1987
GSRI



Semi-Volatile

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004654

Quantitation Report File: SVBAB04

Data: SVBAB04.TI
08/14/87 17:48:00
Sample: FD260 CASE:7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula:
Submitted by: EPA
Instrument: C
Analyst: SA
Weight: 0.008
Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	425	7:12	1	1.000	A BB	35070.	40.000 UG/L	5.14
2	136	615	10:15	2	1.000	A BB	121966.	40.000 UG/L	5.14
3	164	850	14:20	3	1.000	A BB	82236.	40.000 UG/L	5.14
4	188	1051	17:41	4	1.000	A BB	137313.	40.000 UG/L	5.14
5	240	1430	23:50	5	1.000	A BV	109154	40.000 UG/L	5.14
6	264	1643	27:38	6	1.000	A BB	61453.	40.000 UG/L	5.14
7	112	229	3.49	1	0.530	A BV	50519	57.838 UG/L	7.43
8	99	406	6:46	1	0.940	A BB	274358.	133.340 UG/L	17.13
9	82	519	8:38	2	0.842	A BB	86087.	68.546 UG/L	8.81
10	172	775	12:55	3	0.901	A BB	156342.	64.497 UG/L	8.29
11	330	971	16:11	4	0.915	A BB	50468.	121.663 UG/L	15.63
12	244	1293	21:33	5	0.904	A BB	220725.	92.314 UG/L	11.86

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:12	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:16	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:29	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:49	1.00	0.530	1.00	57.84	50.00	1.152	0.996	1.16
8	6:47	1.00	0.942	1.00	133.34	50.00	6.259	2.347	2.67
9	8:39	1.00	0.843	1.00	68.55	50.00	0.565	0.412	1.37
10	12:55	1.00	0.900	1.00	64.50	50.00	1.521	1.179	1.29
11	16:12	1.00	0.915	1.00	121.66	50.00	0.294	0.121	2.43
12	21:33	1.00	0.904	1.00	92.31	50.00	1.618	0.876	1.85

004655

Library Search
08/14/87 17:48:00 + 13:20 Data: SVBAU04 # 800 Base m/z: 72
Sample: FD260 CASE:7770 Cali: SVBAB04 # 1 RIC: 11535.
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Enhanced (S 15B 2N OT)

2224 spectra in LIBRARYNB searched for maximum PURITY
271 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	256	1-PROPENE, 3-METHOXY-
2	18479	ETHANONE, 2-HYDROXY-1,2-DIPHENYL-
	262	1-PROPENE, 1-METHOXY-
	23010	PYROLAN
5	20370	CARBAMIC ACID, BENZOYLMETHYLDITHIO-, METHYL ESTER

W/I K

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C4.H8.O	72	72	415	960	419
2	C14.H12.O2	212	105	410	927	441
	C4.H8.O	72	72	399	923	417
5	C13.H15.O2.N3	245	72	395	631	529
	C10.H11.O.N.S2	225	105	388	700	453

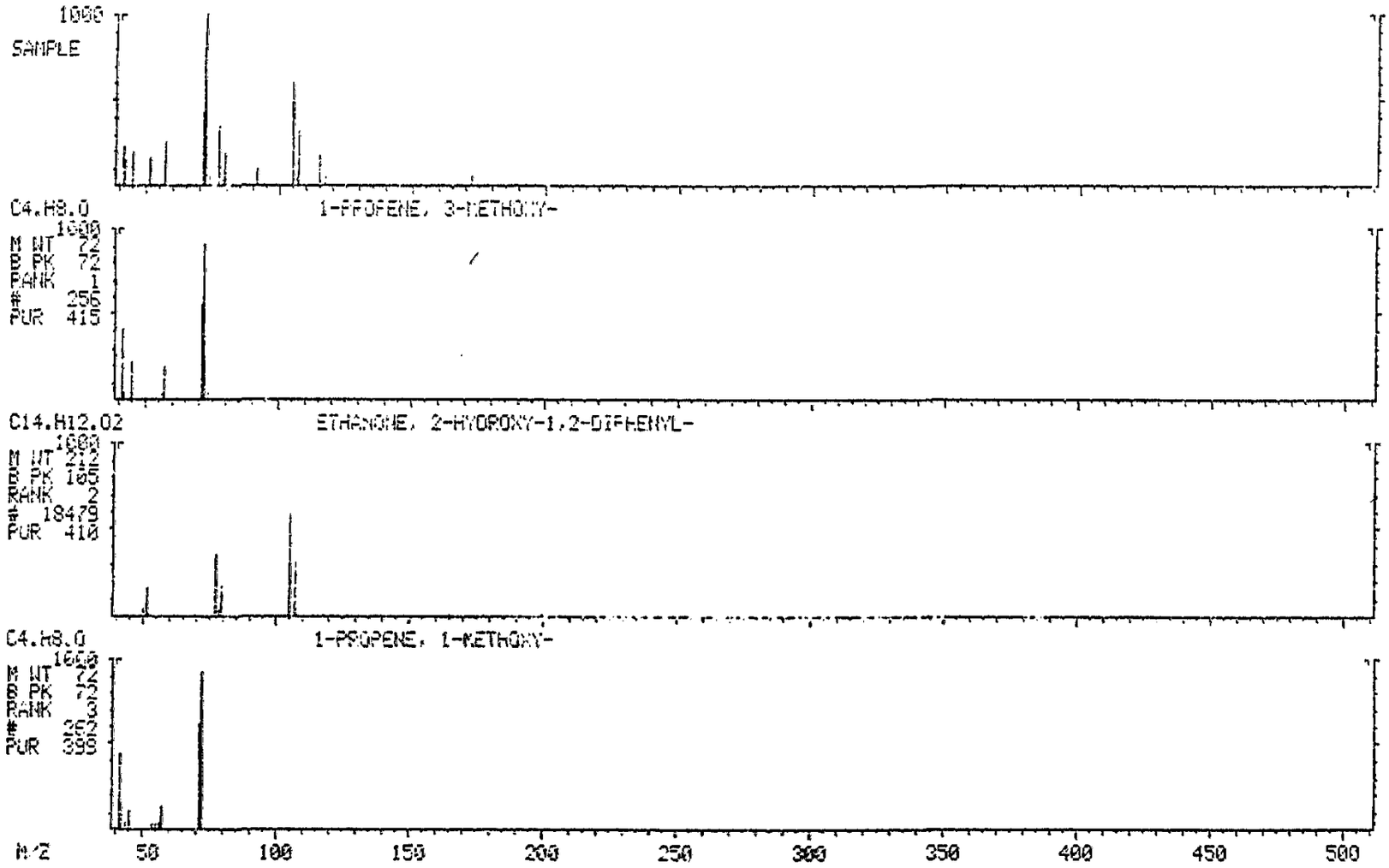
Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	---	---	---	---	627-40-7
2	---	---	---	---	119-53-9
4	---	---	---	---	7319-16-6
5	---	---	---	---	87-47-8
	---	---	---	---	20184-96-7

004656

LIBRARY SEARCH
09/14/87 17:48:00 + 13:20
SAMPLE: FD260 CASE:7770
CONDS.: 45/4/300012 DB-5 FSCC 1MICRON 30METERS
ENHANCED (S 15B 2N 0T)

DATA: SVBAB04 # 800
CALI: SVBAB04 # 1

BASE M/Z: 72
RIC: 11535.

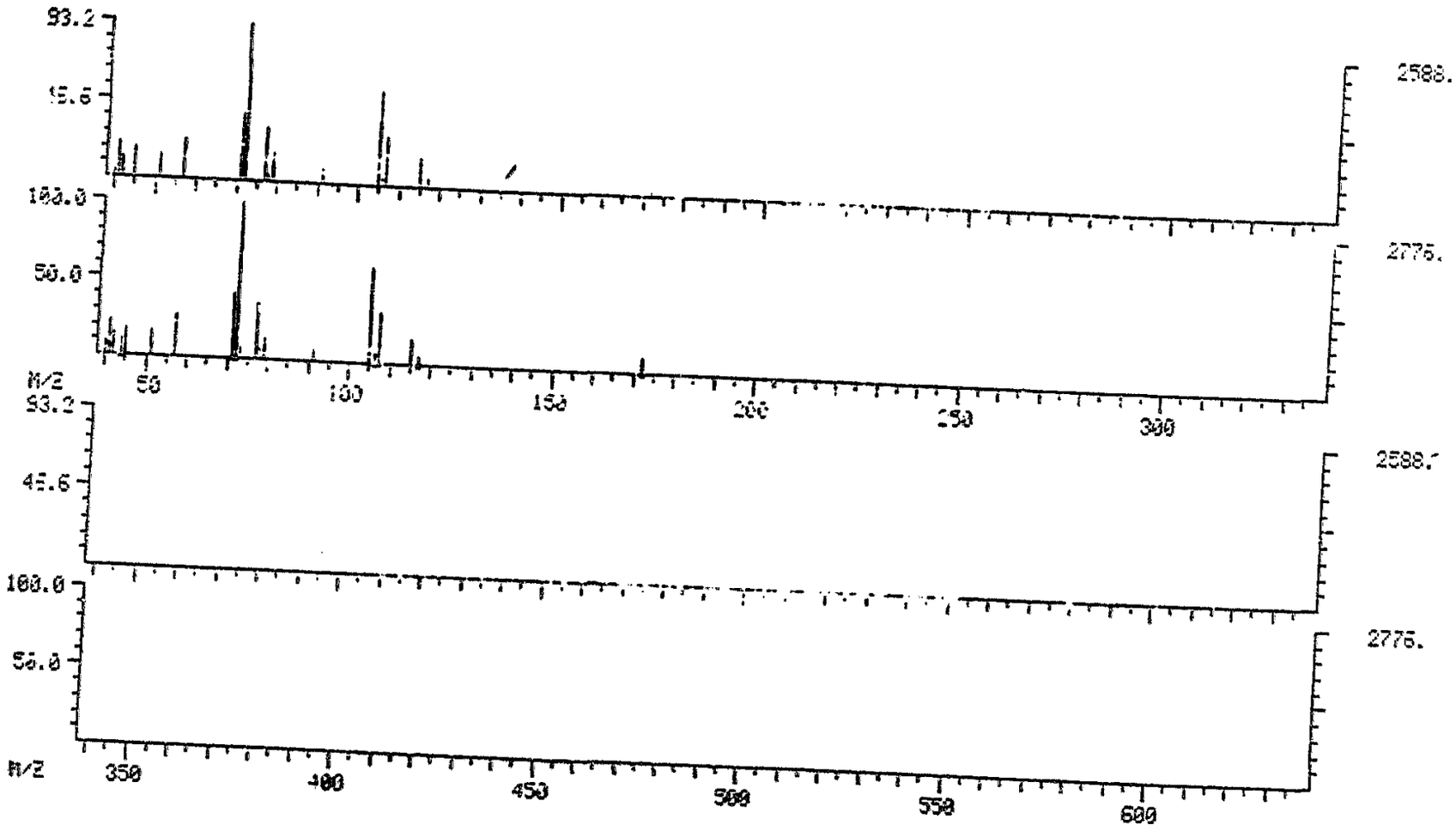


004657

DUAL MASS SPECTRUM
08/14/87 17:48:00 + 13:20
SAMPLE: FD260 CASE:7770
CONDS.: 45/4/300012 DB-5 FSCC 1MICRON 30METERS
ENHANCED (S 158 2N 0T)

DATA: SVBA804 #800
CALI: SVBA804 #1

BASE M/Z: 72/ 72
RIC: 11535./ 13103.



004658

Library Search Data: SVBAB04 # 828 Base m/z: 72
08/14/87 17:48:00 + 13:48 Cali: SVBAB04 # 1 RIC: 15215.
Sample: FD260 CASE:7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Enhanced (S 15B 2N OT)

2224 spectra in LIBRARYNB searched for maximum PURITY
56 matched at least 6 of the 16 largest peaks in the unknown

MI

Rank	In.	Name
1	1620	PROPANE, 1,3-DIMETHOXY-
2	18479	ETHANONE, 2-HYDROXY-1,2-DIPHENYL-
3	5270	4,6-NONADIEN-8-YN-3-OL, (E,E)-
4	20370	CARBAMIC ACID, BENZOYLMETHYLDITHIO-, METHYL ESTER
5	5224	BENZENEMETHANOL, .ALPHA.-ETHYL-

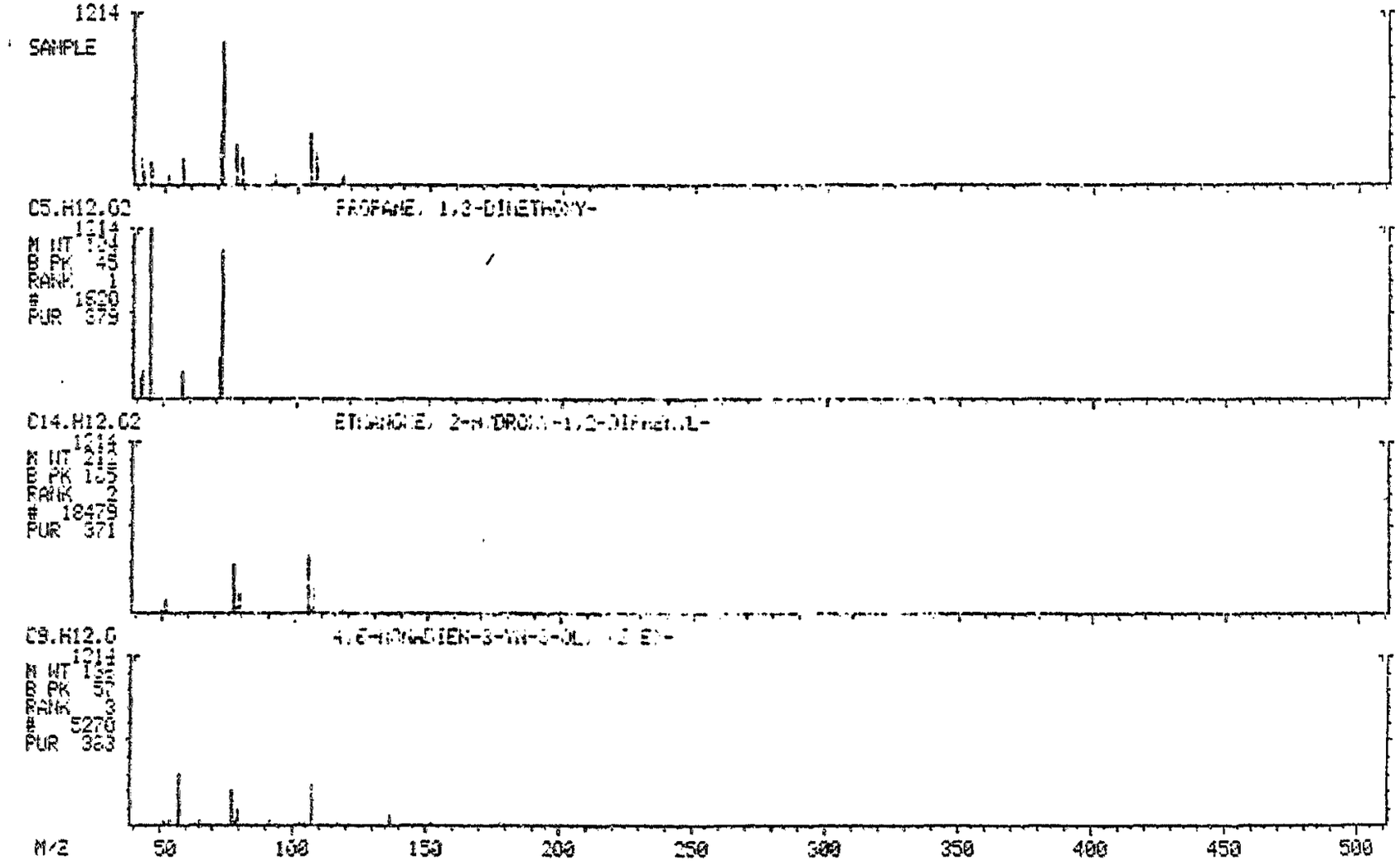
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C5.H12 O2	104	45	379	809	410
2	C14.H12 O2	212	105	371	923	398
3	C9.H12 O	136	57	363	672	428
4	C10.H11 O N S2	225	105	350	648	411
5	C9.H12 O	136	79	332	622	390

Rank	Ret Time	B.P. Int.	US Par 1	US.Par.2	C.A.S. #
1	---	---	---	---	17081-21-9
2	---	---	---	---	119-53-9
3	---	---	---	---	43142-42-3
4	---	---	---	---	20184-96-7
5	---	---	---	---	93-54-9

004659

LIBRARY SEARCH
08/14/87 17:48:00 + 13:48
SAMPLE: FD260 CASE:7770
CONDS.: 45/4/300012 DB-5 FSCC 1MICRON 30METERS
ENHANCED (S 158 2N 0T)

DATA: SUBA804 # 828 BASE M/Z: 72
CALI: SUBA804 # 1 RIC: 15215.

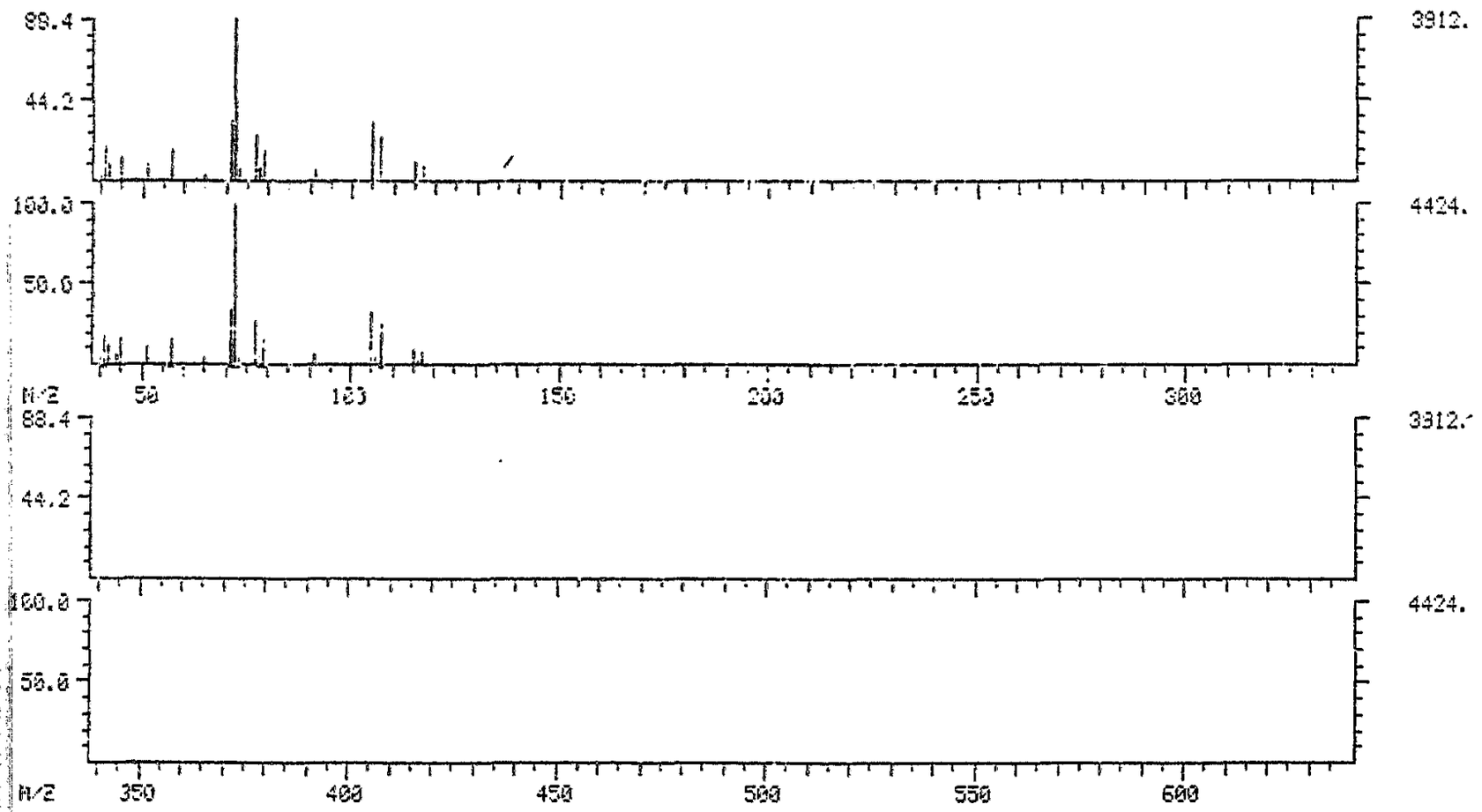


004660

DUAL MASS SPECTRUM
08/14/87 17:48:00 + 13:48
SAMPLE: FD260 CASE:7770
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
ENHANCED (S 153 2N 0T)

DATA: SVBAB04 #828
CAL1: SVBAB04 #1

BASE M/Z: 72/ 72
RIC: 15215./ 16607.



004661

Library Search Data: SVBAB04 # 954 Base m/z: 105
08/14/87 17:48:00 + 15:54 Cali: SVBAB04 # 1 RIC: 53759.
Sample: FD260 CASE: 7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Enhanced (S 15B 2N 0T)

2224 spectra in LIBRARYNB searched for maximum PURITY
61 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	18479	ETHANONE, 2-HYDROXY-1,2-DIPHENYL-
2	18525	BENZENEETHANOL, .BETA.-METHYL-.ALPHA.-PHENYL-
3	27973	1,3-OXATHIOLANE-2-THIONE, 4-HYDROXY-4,5-DIPHENYL-
4	19677	1,3-PROPANEDIOL, 2,2-DICHLORO-1-PHENYL-
5	26094	BENZENE, 1,1'-[(1-METHYL-1,3-PROPANEDIYL)BIS(OXYMETHYLENE)]BIS-

N/I

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H12.O2	212	105	544	903	563
2	C15.H16.O	212	107	538	784	586
3	C15.H12.O2.S2	288	105	528	904	549
4	C9.H10.O2.CL2	220	107	508	820	580
5	C18.H22.O2	270	91	504	737	558

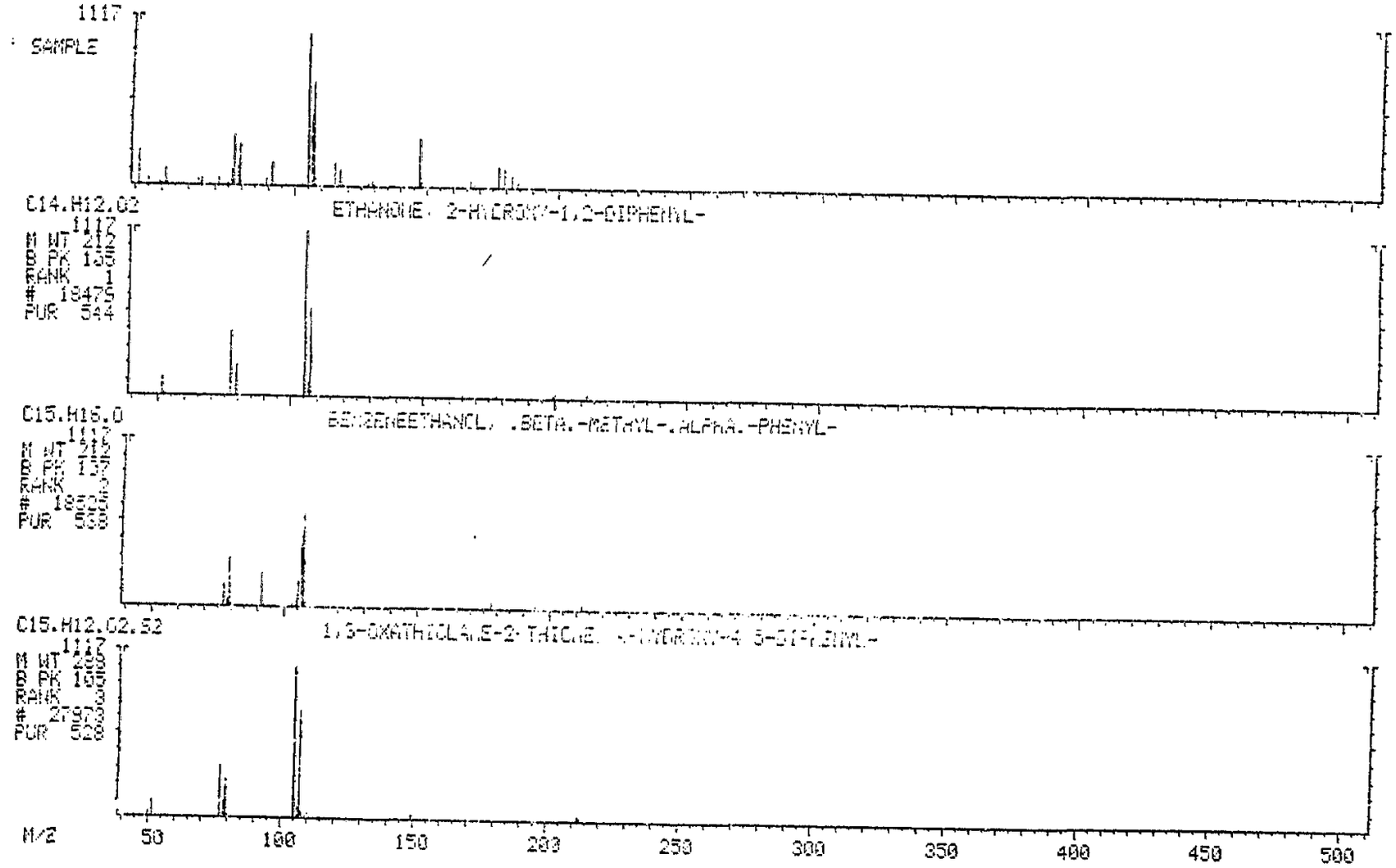
Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	---	---	---	---	119-53-9
2	---	---	---	---	28795-94-0
3	---	---	---	---	54699-18-2
4	---	---	---	---	54852-70-9
5	---	---	---	---	54889-80-4

004662

LIBRARY SEARCH
08/14/87 17:48:00 + 15:54
SAMPLE: FD260 CASE:7770
CONDS.: 45/4/300@12 DE-5 FSCC 1MICRON 30METERS
ENHANCED (S 15B 2N 0T)

DATA: SVBAB04 # 954
CALI: SVBAB04 # 1

BASE M/Z: 105
RIC: 53759.

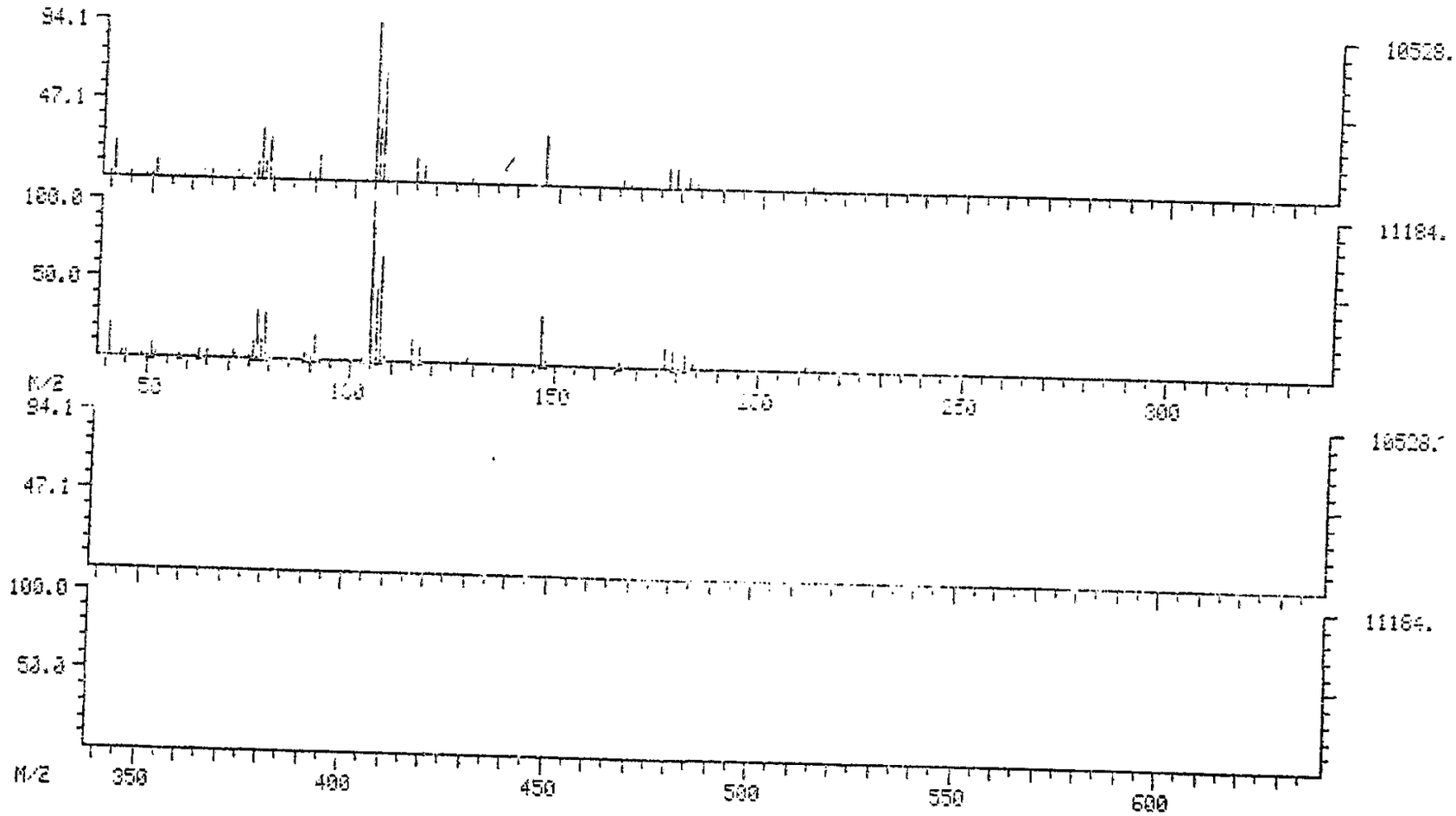


004663

DUAL MASS SPECTRUM
08/14/87 17:48:00 + 15:54
SAMPLE: FD260 CASE:7770
CONDS.: 45/4/300012 DB-5 FSCC 1MICRON 30METERS
ENHANCED (S 156 2N 0T)

DATA: SVBA804 #954
CALI: SVBA804 #1

BASE M/Z: 105/ 105
RIC: 54207./ 55871.



004664

Library Search Data: SVBAB04 # 966 Base m/z: 105
03/14/87 17:48:00 + 16:06 Cali: SVBAB04 # 1 RIC: 51583.
Sample: FD260 CASE: 7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Enhanced (S 15B 2N OT)

2224 spectra in LIBRARYNB searched for maximum PURITY
95 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	13516	BENZOPHENONE
2	29653	1,2,4-TRIOXOLANE, 3,3,5-TRIPHENYL-
3	36113	1,2,4,5-TETROXANE, 3,3,6,6-TETRAPHENYL-
4	13485	AZOBENZENE (ACN)
5	13489	DIAZENE, DIPHENYL-, (E)-

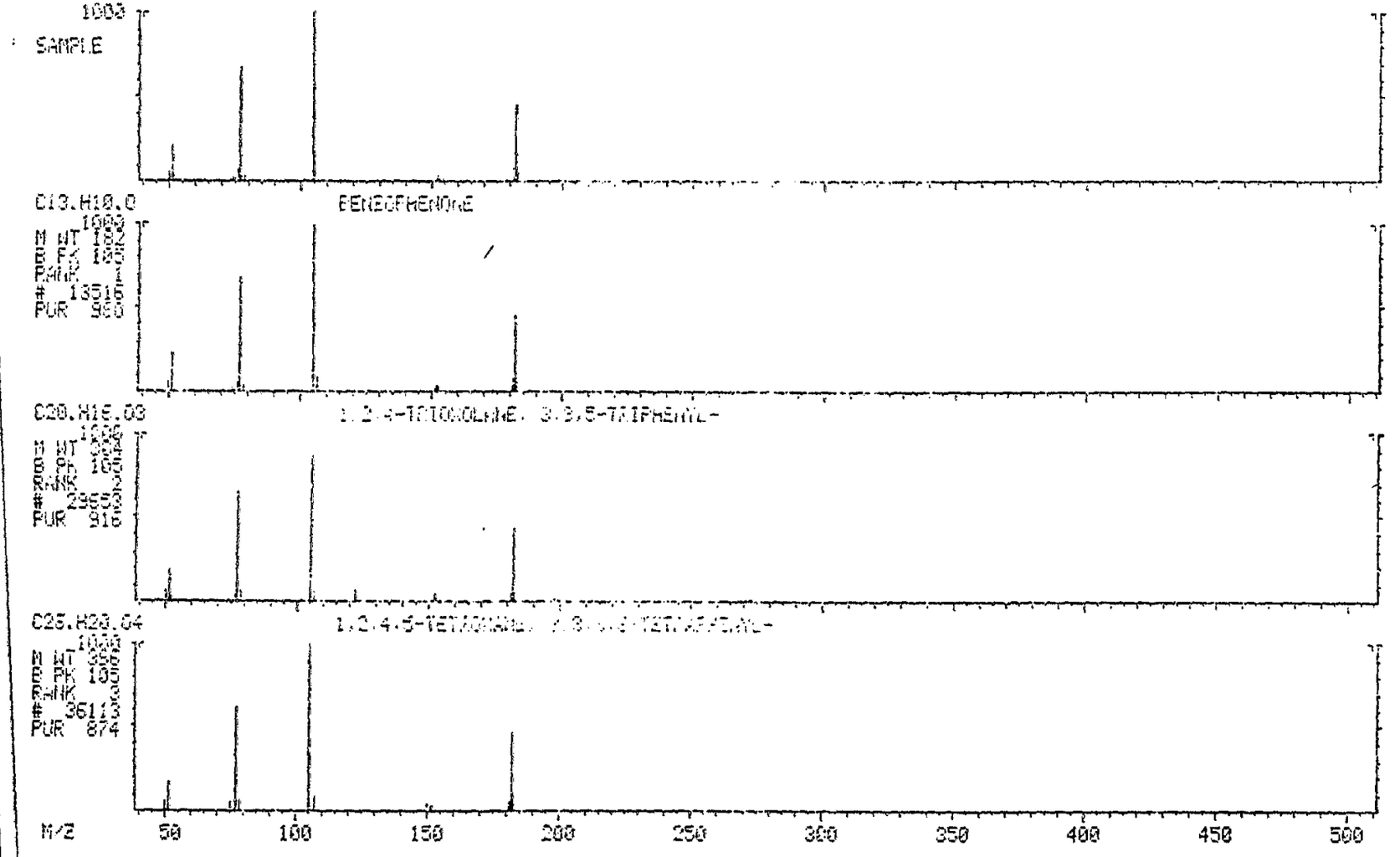
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H10.O	182	105	980	988	990
2	C20.H16.O3	304	105	916	931	970
3	C26.H20.O4	396	105	874	944	920
4	C12.H10.N2	182	77	766	844	812
5	C12.H10.N2	182	77	661	712	678

Rank	Ret. Time	R.P. Int.	VS. Par 1	VS. Par. 2	C.A.S. #
1	---	---	---	---	119-61-9
2	---	---	---	---	33246-12-0
3	---	---	---	---	16204-36-7
4	---	---	---	---	103-33-3
5	---	---	---	---	17082-12-1

004665

LIBRARY SEARCH
08/14/87 17:48:00 + 16:06
SAMPLE: FD260 CASE:7770
CONDS.: 45/4/300812 DB-5 FSCC 1MICRON 30METERS
ENHANCED (S 15B 2N 0T)

DATA: SVBA804 # 966 BASE M/Z: 105
CALI: SVBA804 # 1 RIC: 51583.

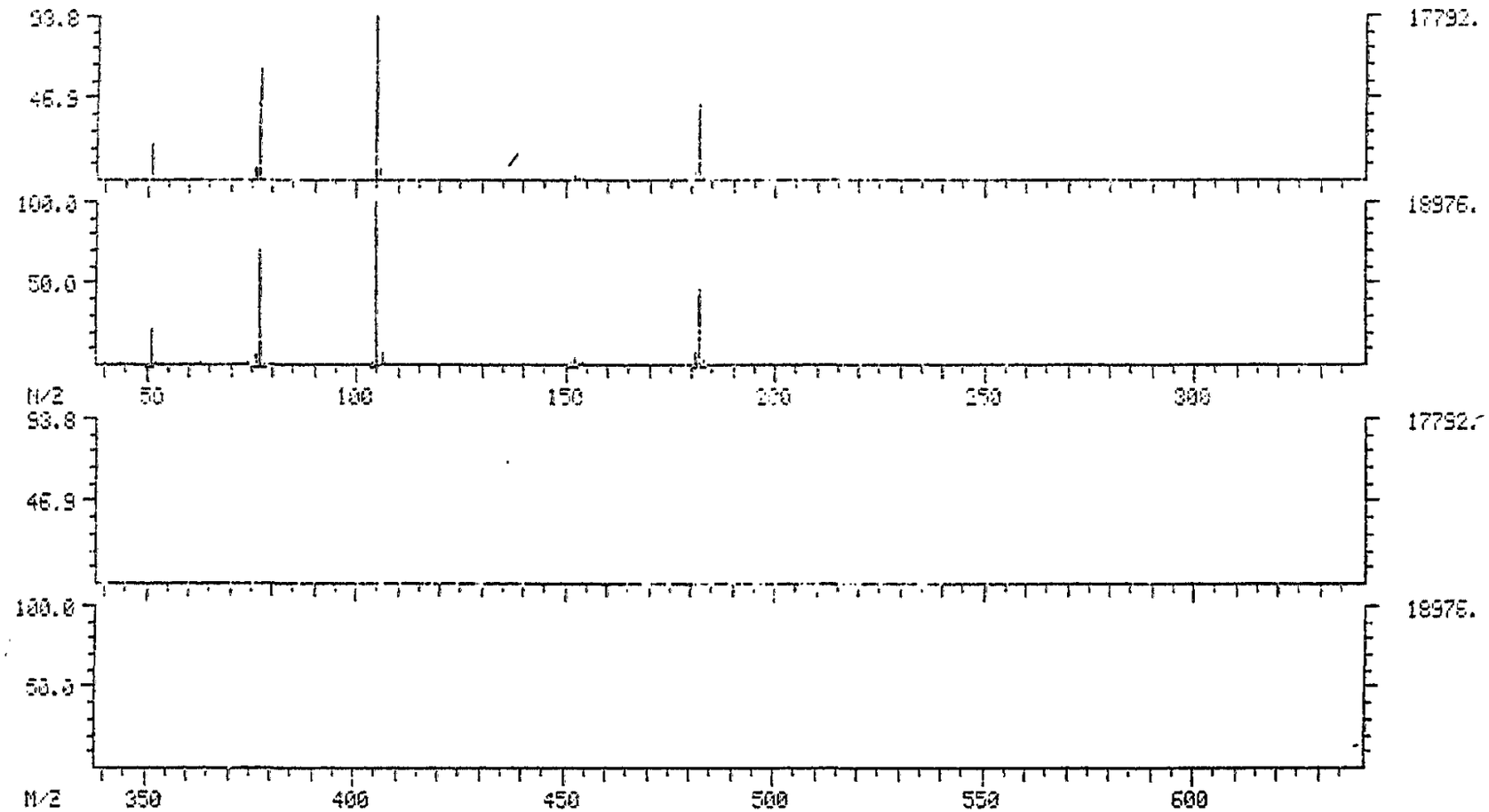


004666

DUAL MASS SPECTRUM
08/14/87 17:48:00 + 16:06
SAMPLE: FD260 CASE:7770
CONDS.: 45/4/300012 DB-5 FSCC 1MICRON 30METERS
ENHANCED (S 158 2N 0T)

DATA: SVBAB04 #966
CALI: SVBAB04 #1

BASE M/Z: 105/ 105
RIC: 51583./ 56639.



004667

gsri GULF SOUTH RESEARCH INSTITUTE
Post Office Box 26518 New Orleans, Louisiana 70186 Telephone 504 283-4223

Semivolatile Fraction

Standards Data

Case 7770

004668

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Instrument ID: C Calibration Date(s): 08/05/87 08/05/87

Min RRF for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = CS080587A RRF50 = CS080587B
RRF80 = CS080587C RRF120= CS080587D RRF160= CS080587E

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Phenol *	1.689	1.928	1.916	1.964	1.949	1.889	6.0*
bis(2-Chloroethyl)Ether	1.231	1.575	1.479	1.385	1.446	1.423	9.0
2-Chlorophenol	1.258	1.479	1.496	1.541	1.512	1.457	7.8
1,3-Dichlorobenzene	1.191	1.482	1.501	1.532	1.527	1.447	10.0
1,4-Dichlorobenzene *	1.284	1.605	1.542	1.584	1.538	1.510	8.6*
Benzyl Alcohol	0.685	0.888	0.841	0.921	0.913	0.850	11.4
1,2-Dichlorobenzene	1.212	1.474	1.452	1.504	1.481	1.425	8.4
2-Methylphenol	1.127	1.317	1.156	1.215	1.204	1.204	6.0
bis(2-Chloroisopropyl)Ether	1.135	1.398	1.393	1.471	1.445	1.368	9.8
4-Methylphenol	1.192	1.314	1.306	1.404	1.423	1.328	6.9
N-Nitroso-Di-n-Propylamine #	0.194	0.256	0.255	0.282	0.275	0.252	13.8#
Hexachloroethane	0.461	0.582	0.578	0.610	0.576	0.561	10.3
Nitrobenzene	0.327	0.393	0.391	0.367	0.510	0.398	17.1
Isophorone	0.574	0.723	0.719	0.758	0.740	0.703	10.5
2-Nitrophenol *	0.190	0.222	0.222	0.256	0.250	0.228	11.6*
2,4-Dimethylphenol	0.251	0.287	0.299	0.329	0.343	0.302	12.0
Benzoic Acid		0.202	0.158	0.258	0.257	0.219	22.0
bis(2-Chloroethoxy)Methane	0.345	0.453	0.467	0.497	0.492	0.451	13.7
2,4-Dichlorophenol *	0.245	0.300	0.306	0.324	0.324	0.300	10.8*
1,2,4-Trichlorobenzene	0.277	0.333	0.333	0.345	0.346	0.327	8.7
Naphthalene	0.947	1.040	1.047	1.007	0.891	0.986	6.7
4-Chloroaniline	0.340	0.402	0.354	0.345	0.289	0.346	11.6
Hexachlorobutadiene *	0.139	0.173	0.168	0.184	0.180	0.169	10.5*
4-Chloro-3-Methylphenol *	0.273	0.308	0.313	0.319	0.329	0.308	6.9*
2-Methylnaphthalene	0.525	0.590	0.583	0.625	0.611	0.587	6.5
Hexachlorocyclopentadiene #	0.240	0.327	0.325	0.371	0.334	0.319	15.1#
2,4,6-Trichlorophenol *	0.322	0.371	0.435	0.522	0.521	0.434	20.6*
2,4,5-Trichlorophenol		0.390	0.327	0.279	0.247	0.311	20.0
2-Chloronaphthalene	0.891	1.088	1.075	1.233	1.138	1.085	11.5
2-Nitroaniline		0.436	0.433	0.501	0.461	0.458	6.9
Dimethyl Phthalate	0.929	1.139	1.115	1.139	1.134	1.091	8.4
Acenaphthylene	1.492	1.603	1.612	1.730	1.576	1.603	5.3
3-Nitroaniline		0.298	0.259	0.265	0.249	0.268	7.9
Acenaphthene *	0.935	1.020	1.034	1.144	1.113	1.049	7.9*
2,4-Dinitrophenol #		0.198	0.184	0.214	0.207	0.201	6.4#
4-Nitrophenol #		0.103	0.102	0.115	0.096	0.104	7.7#

004669

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Instrument ID: C Calibration Date(s): 08/05/87 08/05/87

Min RRF for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = CS080587A RRF50 = CS080587B
RRF80 = CS080587C RRF120= CS080587D RRF160= CS080587E

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Dibenzofuran	1.353	1.505	1.494	1.683	1.492	1.505	7.8
2,4-Dinitrotoluene	0.274	0.327	0.334	0.354	0.331	0.324	9.2
2,6-Dinitrotoluene	0.249	0.308	0.307	0.319	0.330	0.303	10.4
Diethylphthalate	0.873	1.053	0.983	0.999	0.851	0.952	9.1
4-Chlorophenyl-phenylether	0.455	0.566	0.574	0.647	0.609	0.570	12.6
Fluorene	1.037	1.154	1.139	1.229	1.214	1.155	6.6
4-Nitroaniline		0.177	0.138	0.182	0.146	0.161	13.7
4,6-Dinitro-2-Methylphenol		0.143	0.164	0.161	0.151	0.155	6.2
N-Nitrosodiphenylamine (1) *	0.479	0.565	0.631	0.602	0.612	0.578	10.4*
4-Bromophenyl-phenylether	0.190	0.232	0.278	0.270	0.278	0.250	15.4
Hexachlorobenzene	0.201	0.253	0.300	0.304	0.293	0.270	16.2
Pentachlorophenol *		0.148	0.173	0.176	0.159	0.164	7.9*
Phenanthrene	0.884	0.994	1.067	1.010	1.057	1.002	7.3
Anthracene	0.946	0.922	0.959	0.885	0.786	0.900	7.7
Di-n-Butylphthalate	0.934	1.092	1.198	1.120	0.997	1.068	9.7
Fluoranthene *	0.923	0.891	1.039	0.990	0.832	0.935	8.7*
Pyrene	1.382	1.305	1.179	1.050	1.082	1.200	11.9
Butylbenzylphthalate	0.533	0.527	0.546	0.547	0.539	0.538	1.6
3,3'-Dichlorobenzidine	0.179	0.240	0.270	0.253	0.224	0.233	14.9
Benzo(a)Anthracene	0.982	1.086	1.094	1.122	1.091	1.075	5.0
bis(2-Ethylhexyl)Phthalate	0.750	0.719	0.754	0.788	0.770	0.756	3.4
Chrysene	0.897	1.060	1.116	1.089	1.039	1.040	8.2
Di-n-Octyl Phthalate *	1.542	1.665	1.611	1.806	1.597	1.644	6.1*
Benzo(b)Fluoranthene	1.356	1.481	1.446	1.582	1.551	1.483	6.0
Benzo(k)Fluoranthene	1.357	1.449	1.232	1.619	1.453	1.422	10.0
Benzo(a)Pyrene *	1.081	1.242	1.261	1.325	1.260	1.234	7.4*
Indeno(1,2,3-cd)Pyrene	0.915	1.069	1.245	1.241	1.227	1.139	12.8
Dibenz(a,h)Anthracene	0.970	0.989	1.167	1.170	1.205	1.100	10.1
Benzo(g,h,i)Perylene	0.977	1.028	1.176	1.127	1.155	1.093	7.9
Nitrobenzene-d5	0.288	0.400	0.435	0.417	0.379	0.384	15.0
2-Fluorobiphenyl	0.920	1.182	1.133	1.282	1.116	1.127	11.7
Terphenyl-d14	1.108	0.965	0.883	0.823	0.853	0.926	12.4
Phenol-d5	2.973	2.400	2.386	2.500	2.262	2.504	11.0
2-Fluorophenyl	1.041	1.180	1.191	1.356	1.197	1.193	9.4
2,4,6-Tribromophenol	0.160	0.135	0.137	0.137	0.138	0.141	7.4

(1) Cannot be separated from Diphenylamine

004670

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Instrument ID: C Calibration date: 08/14/87 Time: 1427

Lab File ID: C5081487A Init. Calib. Date(s): 08/05/87 08/05/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Phenol	1.889	1.746	7.6	*
bis(2-Chloroethyl)Ether	1.423	1.348	5.3	
2-Chlorophenol	1.457	1.375	5.6	
1,3-Dichlorobenzene	1.447	1.385	4.3	
1,4-Dichlorobenzene	1.510	1.460	3.3	*
Benzyl Alcohol	0.850	0.780	8.2	
1,2-Dichlorobenzene	1.425	1.463	-2.7	
2-Methylphenol	1.204	1.146	4.8	
bis(2-Chloroisopropyl)Ether	1.368	1.606	-17.4	
4-Methylphenol	1.328	1.253	5.6	
N-Nitroso-Di-n-Propylamine	0.252	0.249	1.2	#
Hexachloroethane	0.561	0.595	-6.1	
Nitrobenzene	0.398	0.474	-19.1	
Isophorone	0.703	0.716	-1.8	
2-Nitrophenol	0.228	0.226	0.9	*
2,4-Dimethylphenol	0.302	0.294	2.6	
Benzoic Acid	0.219	0.142	35.2	
bis(2-Chloroethoxy)Methane	0.451	0.468	-3.8	
2,4-Dichlorophenol	0.300	0.276	8.0	*
1,2,4-Trichlorobenzene	0.327	0.317	3.1	
Naphthalene	0.986	1.039	-5.4	
4-Chloroaniline	0.346	0.411	-18.8	
Hexachlorobutadiene	0.169	0.157	7.1	*
4-Chloro-3-Methylphenol	0.308	0.310	-0.6	*
2-Methylnaphthalene	0.587	0.568	3.2	
Hexachlorocyclopentadiene	0.319	0.287	10.0	#
2,4,6-Trichlorophenol	0.434	0.332	23.5	*
2,4,5-Trichlorophenol	0.311	0.410	-31.8	
2-Chloronaphthalene	1.085	1.083	0.2	
2-Nitroaniline	0.458	0.464	-1.3	
Dimethyl Phthalate	1.091	1.116	-2.3	
Acenaphthylene	1.603	1.646	-2.7	
3-Nitroaniline	0.268	0.309	-15.3	
Acenaphthene	1.049	1.042	0.7	*
2,4-Dinitrophenol	0.184	0.155	15.8	#
4-Nitrophenol	0.104	0.086	17.3	#

004671

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Instrument ID: C Calibration date: 08/14/87 Time: 1427

Lab File ID: CS081487A Init. Calib. Date(s): 08/05/87 08/05/87

Min RRF50 for SPCC(#) = 0.050

Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.505	1.520	-1.0	
2,4-Dinitrotoluene	0.324	0.336	-3.7	
2,6-Dinitrotoluene	0.303	0.300	1.0	
Diethylphthalate	0.952	1.055	-10.8	
4-Chlorophenyl-phenylether	0.570	0.555	2.6	
Fluorene	1.135	1.144	1.0	
4-Nitroaniline	0.161	0.148	8.1	
4,6-Dinitro-2-Methylphenol	0.155	0.137	11.6	
N-Nitrosodiphenylamine (1)	0.578	0.570	1.4	*
4-Bromophenyl-phenylether	0.250	0.233	6.8	
Hexachlorobenzene	0.270	0.233	13.7	
Pentachlorophenol	0.164	0.125	23.8	*
Phenanthrene	1.002	0.953	4.9	
Anthracene	0.900	0.998	-10.9	
Di-n-Butylphthalate	1.068	1.082	-1.3	
Fluoranthene	0.935	0.908	2.9	*
Pyrene	1.200	1.273	-6.1	
Butylbenzylphthalate	0.538	0.544	-1.1	
3,3'-Dichlorobenzidine	0.233	0.223	4.3	
Benzo(a)Anthracene	1.075	1.079	-0.4	
bis(2-Ethylhexyl)Phthalate	0.756	0.736	2.6	
Chrysene	1.040	1.030	1.0	
Di-n-Octyl Phthalate	1.644	1.770	-7.7	*
Benzo(b)Fluoranthene	1.483	0.914	38.4	
Benzo(k)Fluoranthene	1.422	1.082	23.9	
Benzo(a)Pyrene	1.234	1.256	-1.8	*
Indeno(1,2,3-cd)Pyrene	1.139	1.115	2.1	
Dibenz(a,h)Anthracene	1.100	1.149	-4.5	
Benzo(g,h,i)Perylene	1.093	1.107	-1.3	
Nitrobenzene-d5	0.384	0.412	-7.3	
2-Fluorobiphenyl	1.127	1.179	-4.6	
Terphenyl-d14	0.926	0.876	5.4	
Phenol-d5	2.504	2.347	6.3	
2-Fluorophenyl	1.193	0.996	16.5	
2,4,6-Tribromophenol	0.141	0.121	14.2	

(1) Cannot be separated from Diphenylamine

004672

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Instrument ID: C Calibration date: 08/24/87 Time: 1552

Lab File ID: C5082487B Init. Calib. Date(s): 08/05/87 08/05/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Phenol *	1.889	1.913	-1.3 *
bis(2-Chloroethyl)Ether	1.423	1.409	1.0
2-Chlorophenol	1.457	1.498	-2.8
1,3-Dichlorobenzene	1.447	1.467	-1.4
1,4-Dichlorobenzene *	1.510	1.496	0.9 *
Benzyl Alcohol	0.850	0.911	-7.2
1,2-Dichlorobenzene	1.425	1.509	-5.9
2-Methylphenol	1.204	1.387	-15.2
bis(2-Chloroisopropyl)Ether	1.368	2.066	-51.0
4-Methylphenol	1.328	1.526	-14.9
N-Nitroso-Di-n-Propylamine #	0.252	0.290	-15.1 #
Hexachloroethane	0.561	0.641	-14.3
Nitrobenzene	0.398	0.504	-26.6
Isophorone	0.703	0.760	-8.1
2-Nitrophenol *	0.228	0.231	-1.3 *
2,4-Dimethylphenol	0.302	0.292	3.3
Benzoic Acid	0.219	0.228	-4.1
bis(2-Chloroethoxy)Methane	0.451	0.496	-10.0
2,4-Dichlorophenol *	0.300	0.279	7.0 *
1,2,4-Trichlorobenzene	0.327	0.317	3.1
Naphthalene	0.986	1.068	-8.3
4-Chloroaniline	0.346	0.375	-8.4
Hexachlorobutadiene *	0.169	0.159	5.9 *
4-Chloro-3-Methylphenol *	0.308	0.333	-8.1 *
2-Methylnaphthalene	0.587	0.564	3.9
Hexachlorocyclopentadiene #	0.319	0.269	15.7 #
2,4,6-Trichlorophenol *	0.434	0.361	16.8 *
2,4,5-Trichlorophenol	0.311	0.391	-25.7
2-Chloronaphthalene	1.085	1.100	-1.4
2-Nitroaniline	0.458	0.477	-4.1
Dimethyl Phthalate	1.091	1.097	-0.6
Acenaphthylene	1.603	1.646	-2.7
3-Nitroaniline	0.268	0.322	-20.2
Acenaphthene *	1.049	1.048	0.1 *
2,4-Dinitrophenol #	0.184		100.0 #
4-Nitrophenol #	0.104	0.109	-4.8 #

004673

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Instrument ID: C Calibration date: 08/24/87 Time: 1552

Lab File ID: CS082487B Init. Calib. Date(s): 08/05/87 08/05/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.505	1.528	-1.5
2,4-Dinitrotoluene	0.324	0.363	-12.0
2,6-Dinitrotoluene	0.303	0.310	-2.3
Diethylphthalate	0.952	1.079	-13.3
4-Chlorophenyl-phenylether	0.570	0.533	6.5
Fluorene	1.155	1.172	-1.5
4-Nitroaniline	0.161	0.200	-24.2
4,6-Dinitro-2-Methylphenol	0.155	0.129	16.8
N-Nitrosodiphenylamine (1) *	0.578	0.537	7.1 *
4-Bromophenyl-phenylether	0.250	0.207	17.2
Hexachlorobenzene	0.270	0.225	16.7
Pentachlorophenol *	0.164	0.144	12.2 *
Phenanthrene	1.002	1.031	-2.9
Anthracene	0.900	0.938	-4.2
Di-n-Butylphthalate	1.068	1.147	-7.4
Fluoranthene *	0.935	0.998	-6.7 *
Pyrene	1.200	1.292	-7.7
Butylbenzylphthalate	0.538	0.580	-7.8
3,3'-Dichlorobenzidine	0.233	0.210	9.9
Benzo(a)Anthracene	1.075	1.078	-0.3
bis(2-Ethylhexyl)Phthalate	0.756	0.761	-0.7
Chrysene	1.040	0.924	11.2
Di-n-Octyl Phthalate *	1.644	1.772	-7.8 *
Benzo(b)Fluoranthene	1.483	0.952	35.8
Benzo(k)Fluoranthene	1.422	1.037	27.1
Benzo(a)Pyrene *	1.234	1.194	3.2 *
Indeno(1,2,3-cd)Pyrene	1.139	1.012	11.2
Dibenz(a,h)Anthracene	1.100	0.979	11.0
Benzo(g,h,i)Perylene	1.093	1.010	7.6
Nitrobenzene-d5	0.384	0.434	-13.0
2-Fluorobiphenyl	1.127	1.147	-1.8
Terphenyl-d14	0.926	0.891	3.8
Phenol-d5	2.504	2.476	1.1
2-Fluorophenyl	1.193	1.219	-2.2
2,4,6-Tribromophenol	0.141	0.115	18.4

(1) Cannot be separated from Diphenylamine

004674

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Lab File ID (Standard): CS081487A Date Analyzed: 08/14/87

Instrument ID: C Time Analyzed: 1427

	IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
12 HOUR STD	41200	7.20	150000	10.27	88400	14.35
UPPER LIMIT	82400		300000		176800	
LOWER LIMIT	20600		75000		44200	
EPA SAMPLE NO.						
01 FD259	36300	7.43	123000	10.32	83300	14.35
02 FD260	35100	7.20	122000	10.25	82200	14.34
03 SBLK	34900	6.98	114000	10.19	80500	14.34

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d8

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

004675

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Lab File ID (Standard): CS082487B Date Analyzed: 08/24/87

Instrument ID: C Time Analyzed: 1552

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	27700	6.70	106000	9.84	64300	13.92
	UPPER LIMIT	55400		212000		128600	
	LOWER LIMIT	13850		53000		32150	
	EPA SAMPLE NO.						
01	FD259MSDRE	31400	6.70	118000	9.84	72600	13.92
02	FD259MSRE	30400	6.70	119000	9.84	71600	13.92
03	SBLK	29100	6.50	112000	9.79	69000	13.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d8

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

M

004676

8C
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Lab File ID (Standard): CS081487A Date Analyzed: 08/14/87

Instrument ID: C Time Analyzed: 1427

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	142000	17.70	103000	23.85	68800	27.49
	UPPER LIMIT	284000		206000		137600	
	LOWER LIMIT	71000		51500		34400	
	EPA SAMPLE NO.						
01	FD259	140000	17.70	112000	23.84	64200	27.47
02	FD260	137000	17.69	109000	23.84	61500	27.47
03	SBLK	136000	17.69	116000	23.84	63800	27.47

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

004677

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Lab File ID (Standard): CS082487B Date Analyzed: 08/24/87

Instrument ID: C Time Analyzed: 1552

	IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
12 HOUR STD	111000	17.25	89300	23.39	60700	26.97
UPPER LIMIT	222000		178600		121400	
LOWER LIMIT	55500		44650		30350	
EPA SAMPLE NO.						
01 FD259MSDRE	119000	17.25	87400	23.40	50700	27.06
02 FD259MSRE	121000	17.25	89800	23.37	50700	26.92
03 SBLK	116000	17.24	84500	23.37	48000	26.91

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

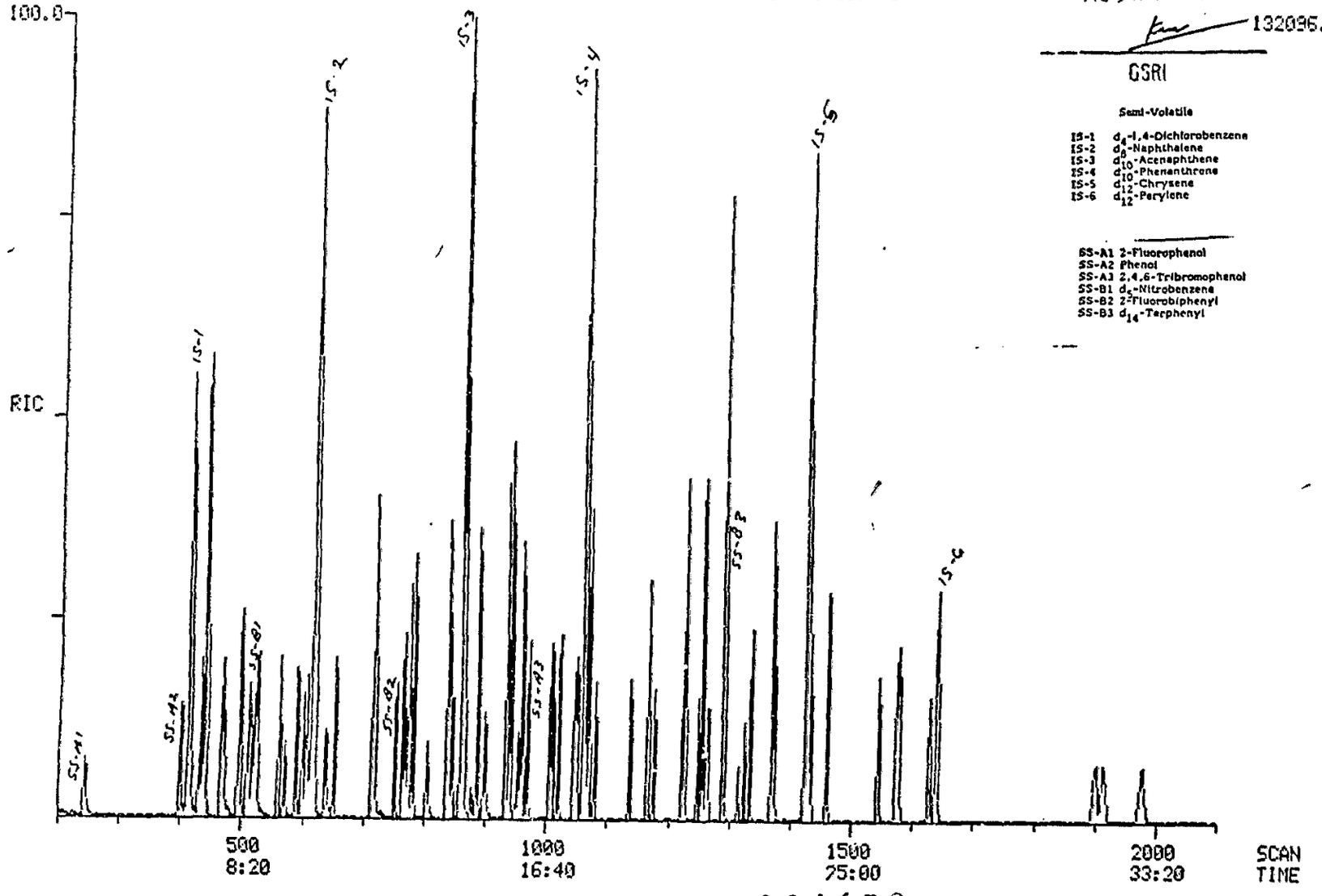
Column used to flag internal standard area values with an asterisk

004678

RIC
08/05/87 10:57:00
SAMPLE: SSTD20 (20 PPM) 865-6-SVP20 CASE: 7770
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CS080587A #1 SCANS 200 TO 2100
CALI: CS080587A #1

REVIEWED
AUG 06 1987
132096.
GSRI



Semi-Volatile

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004679

Quantitation Report File: CS080587A

Data: CS080587A.TI
08/05/87 10:57:00
Sample: SSTD20 (20 PPM) 865-6-SVP20 CASE: 7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.000
Submitted by: EPA Analyst: GK Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	C315	PHENOL*	
13	C325	BIS(2 CHLOROETHYL)ETHER	
14	C330	2-CHLOROPHENOL	
15	C335	1,3-DICHLOROBENZENE	
16	C340	14DICHLOROBENZENE*	
17	C345	BENZYL ALCOHOL	
18	C350	1,2-DICHLOROBENZENE	
19	C355	2-METHYLPHENOL	
20	C360	BIS(2-CHLOROISOPROPYL)ETHER	
21	C365	4-METHYLPHENOL	
22	C370	NITROSOPROPYLAMINE**	
23	C375	HEXACHLOROETHANE	
24	C410	NITROBENZENE	
25	C415	ISOPHORONE	
26	C420	2-NITROPHENOL*	
27	C425	2,4-DIMETHYLPHENOL	
28	C430	BENZOIC ACID	
29	C435	BIS(2-CHLOROETHOXY)METHANE	
30	C440	2,4-DICHLOROPHENOL*	
31	C445	1,2,4-TRICHLOROBENZENE	
32	C450	NAPHTHALENE	
33	C455	4-CHLOROANILINE	
34	C460	CL6BUTADIENE*	
35	C465	4CHLORO3METHYLPHENOL*	
36	C470	2-METHYLNAPTHALENE	
37	C510	CL6CYCLOPENTADIENE**	
38	C515	246TRICHLOROPHENOL*	
39	C520	2,4,5-TRICHLOROPHENOL	
40	C525	2-CHLORONAPHTHALENE	
41	C530	2-NITROANILINE	
42	C535	DIMETHYL PHTHALATE	
43	C540	ACENAPHTHYLENE	
44	C545	3-NITROANILINE	
45	C550	ACENAPTHENE*	
46	C555	24DINITROPHENOL**	
47	C560	4NITROPHENOL**	

004680

No	Name	
48	C565	DIBENZOFURAN
49	C570	2,4-DINITROTOLUENE
50	C575	2,6-DINITROTOLUENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	438	7:18	1	1.000	A BB	43609.	40.000 UG/L	2.41
2	136	617	10:17	2	1.000	A BB	155465.	40.000 UG/L	2.41
3	164	861	14:21	3	1.000	A BB	94840.	40.000 UG/L	2.41
4	188	1061	17:41	4	1.000	A BB	155533.	40.000 UG/L	2.41
5	240	1426	23:46	5	1.000	A BB	107353.	40.000 UG/L	2.41
6	264	1640	27:20	6	1.000	A BB	67035.	40.000 UG/L	2.41
7	112	245	4:05	1	0.559	A BB	22702.	20.000 UG/L	1.20
8	99	412	6:52	1	0.941	A BB	64827.	20.000 UG/L	1.20
9	82	522	8:42	2	0.846	A BB	22423.	20.000 UG/L	1.20
10	172	775	12:55	3	0.900	A BB	43646.	20.000 UG/L	1.20
11	330	970	16:10	4	0.914	A BB	12459.	20.000 UG/L	1.20
12	94	414	6:54	1	0.945	A BV	36835.	20.000 UG/L	1.20
13	93	415	6:55	1	0.947	A VV	26836.	20.000 UG/L	1.20
14	128	414	6:54	1	0.945	A BB	27433.	20.000 UG/L	1.20
15	146	432	7:12	1	0.986	A BV	25976.	20.000 UG/L	1.20
16	146	441	7:21	1	1.007	A VB	27994.	20.000 UG/L	1.20
17	108	470	7:50	1	1.073	A BB	14931.	20.000 UG/L	1.20
18	146	466	7:46	1	1.064	A BB	26423.	20.000 UG/L	1.20
19	108	496	8:16	1	1.132	A BB	24583.	20.000 UG/L	1.20
20	45	494	8:14	1	1.128	A BB	24757.	20.000 UG/L	1.20
21	107	518	8:38	1	1.183	A VB	25990.	20.000 UG/L	1.20
22	130	513	8:33	1	1.171	A BB	4221.	20.000 UG/L	1.20
23	117	510	8:30	1	1.164	A BB	10048.	20.000 UG/L	1.20
24	77	524	8:44	2	0.849	A VV	25446.	20.000 UG/L	1.20
25	82	560	9:20	2	0.908	A BB	44643.	20.000 UG/L	1.20
26	139	570	9:30	2	0.924	A BB	14780.	20.000 UG/L	1.20
27	122	589	9:49	2	0.955	A BB	19507.	20.000 UG/L	1.20
28	122	613	10:13	2	0.994	A BB	13914.	20.000 UG/L	1.20
29	93	600	10:00	2	0.972	A BV	26779.	20.000 UG/L	1.20
30	162	606	10:06	2	0.982	A BV	19014.	20.000 UG/L	1.20
31	180	614	10:14	2	0.995	A BB	21570.	20.000 UG/L	1.20
32	128	620	10:20	2	1.005	A BB	73596.	20.000 UG/L	1.20
33	127	637	10:37	2	1.032	A BB	26446.	20.000 UG/L	1.20
34	225	652	10:52	2	1.057	A BB	10795.	20.000 UG/L	1.20
35	107	713	11:53	2	1.156	A BB	21209.	20.000 UG/L	1.20
36	141	717	11:57	2	1.162	A BB	40791.	20.000 UG/L	1.20
37	237	752	12:32	3	0.873	A BB	11360.	20.000 UG/L	1.20
38	196	764	12:44	3	0.887	A BV	15285.	20.000 UG/L	1.20
39	196	768	12:48	3	0.892	A VB	17622.	20.000 UG/L	1.20
40	162	782	13:02	3	0.908	A BB	42241.	20.000 UG/L	1.20
41	138	805	13:25	3	0.935	A BB	18114.	20.000 UG/L	1.20
42	163	841	14:01	3	0.977	A BB	44045.	20.000 UG/L	1.20
43	152	838	13:58	3	0.973	A BB	70748.	20.000 UG/L	1.20
44	138	863	14:23	3	1.002	A BB	13212.	20.000 UG/L	1.20
45	154	865	14:25	3	1.005	A BB	44334.	20.000 UG/L	1.20
46	184	878	14:38	3	1.020	A BB	5457.	20.000 UG/L	1.20
47	109	899	14:59	3	1.044	A BB	3702.	20.000 UG/L	1.20
48	168	887	14:47	3	1.030	A BB	64172.	20.000 UG/L	1.20
49	165	899	14:59	3	1.044	A BB	13010.	20.000 UG/L	1.20
50	165	846	14:06	3	0.983	A BB	11785.	20.000 UG/L	1.20

Case 7770 C5680587A 5Std 20

004681

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:14	1.01	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:53	1.05	0.537	1.04	20.00	20.00	1.041	1.041	1.00
8	6:50	1.00	0.945	1.00	20.00	20.00	2.973	2.973	1.00
9	8:41	1.00	0.844	1.00	20.00	20.00	0.288	0.288	1.00
10	12:55	1.00	0.901	1.00	20.00	20.00	0.920	0.920	1.00
11	16:10	1.00	0.915	1.00	20.00	20.00	0.160	0 160	1.00
12	6:52	1.00	0.949	1.00	20.00	20.00	1.689	1.689	1.00
13	6:51	1.01	0.947	1.00	20.00	20.00	1.231	1.231	1.00
14	6:50	1.01	0.945	1.00	20.00	20.00	1.258	1.258	1.00
15	7:08	1.01	0.986	1.00	20.00	20.00	1.191	1.191	1.00
16	7:16	1.01	1.005	1.00	20.00	20.00	1.284	1.284	1.00
17	7:48	1.00	1.078	1.00	20.00	20.00	0.685	0.685	1.00
18	7:42	1.01	1.065	1.00	20.00	20.00	1.212	1.212	1.00
19	8:15	1.00	1.141	0.99	20.00	20.00	1.127	1.127	1.00
20	8:12	1.00	1.134	0.99	20.00	20.00	1.135	1.135	1.00
21	8:38	1.00	1.194	0.99	20.00	20.00	1.192	1.192	1.00
22	8:34	1.00	1.184	0.99	20.00	20.00	0.194	0.194	1.00
23	8:26	1.01	1.166	1.00	20.00	20.00	0.461	0.461	1.00
24	8:44	1.00	0.849	1.00	20.00	20.00	0.327	0.327	1.00
25	9:22	1.00	0.911	1.00	20.00	20.00	0.574	0.574	1.00
26	9:28	1.00	0.921	1.00	20.00	20.00	0.190	0.190	1.00
27	9:49	1.00	0.955	1.00	20.00	20.00	0.251	0.251	1.00
28	10:29	0.97	1.019	0.97	20.00	20.00	0.179	0.179	1.00
29	10:00	1.00	0.972	1.00	20.00	20.00	0.345	0.345	1.00
30	10:05	1.00	0.981	1.00	20.00	20.00	0.245	0.245	1.00
31	10:13	1.00	0.994	1.00	20.00	20.00	0.277	0.277	1.00
32	10:19	1.00	1.003	1.00	20.00	20.00	0.947	0.947	1.00
33	10:35	1.00	1.029	1.00	20.00	20.00	0.340	0.340	1.00
34	10:51	1.00	1.055	1.00	20.00	20.00	0.139	0.139	1.00
35	11:53	1.00	1.156	1.00	20.00	20.00	0.273	0.273	1.00
36	11:56	1.00	1.160	1.00	20.00	20.00	0.525	0.525	1.00
37	12:30	1.00	0.872	1.00	20.00	20.00	0.240	0.240	1.00
38	12:43	1.00	0.887	1.00	20.00	20.00	0.322	0.322	1.00
39	12:48	1.00	0.893	1.00	20.00	20.00	0.372	0.372	1.00
40	13:02	1.00	0.909	1.00	20.00	20.00	0.891	0.891	1.00
41	13:25	1.00	0.936	1.00	20.00	20.00	0.382	0.382	1.00
42	14:02	1.00	0.979	1.00	20.00	20.00	0.929	0.929	1.00
43	13:58	1.00	0.974	1.00	20.00	20.00	1.492	1.492	1.00
44	14:24	1.00	1.005	1.00	20.00	20.00	0.279	0.279	1.00
45	14:25	1.00	1.006	1.00	20.00	20.00	0.935	0.935	1.00
46	14:38	1.00	1.021	1.00	20.00	20.00	0.115	0.115	1.00
47	14:58	1.00	1.044	1.00	20.00	20.00	0.078	0.078	1.00
48	14:48	1.00	1.033	1.00	20.00	20.00	1.353	1.353	1.00
49	15:00	1.00	1.047	1.00	20.00	20.00	0.274	0.274	1.00
50	14:08	1.00	0.986	1.00	20.00	20.00	0.249	0.249	1.00

Case 7770 C50805 87A 5Std20

004682

Quantitation Report File: CS080587A

Data: CS080587A.TI
08/05/87 10:57:00
Sample: SSTD20 (20 PPM) 865-6-SVP20 CASE: 7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.000
Submitted by: EPA Analyst: GK Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
51	C580	DIETHYL PHTHALATE
52	C585	4-CHLOROPHENYL PHENYL ETHER
53	C590	FLUORENE
54	C595	4-NITROANILINE
55	C610	4,6-DINITRO-2-METHYLPHENOL
56	C615	DIPHENYLAMINE*
57	C625	4-BROMOPHENYL PHENYL ETHER
58	C630	HEXACHLOROBENZENE
59	C635	PENTACHLOROPHENOL*
60	C640	PHENANTHRENE
61	C645	ANTHRACENE
62	C650	DI-N-BUTYL PHTHALATE
63	C715	PYRENE
64	C720	BUTYL BENZYL PHTHALATE
65	C725	3,3'-DICHLORODENZIDINE
66	C730	BENZO(A)ANTHRACENE
67	C735	BIS(2-ETHYLHEXYL)PHTHALATE
68	C775	BENZO(A)PYRENE*
69	C780	INDENO(1,2,3-CD)PYRENE
70	C785	DIBENZO(A,H)ANTHRACENE
71	C790	BENZO(G,H,I)PERYLENE
72	CS30	D14-P-TERPHENYL (SS-B3)
73	C655	FLUORANTHENE*
74	C740	CHRYSENE
75	C760	DINOCTYLPHTHALATE*
76	C765	BENZO(B)FLUORANTHENE
77	C770	BENZO(K)FLUORANTHENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	149	941	15:41	3	1.093	A BB	41402.	20.000 UG/L	1.20
52	204	941	15:41	3	1.093	A BB	21595.	20.000 UG/L	1.20
53	166	934	15:34	3	1.085	A BB	49168.	20.000 UG/L	1.20
54	138	950	15:50	3	1.103	A BV	5708.	20.000 UG/L	1.20
55	198	953	15:53	4	0.898	A BB	9911.	20.000 UG/L	1.20
56	169	959	15:59	4	0.904	A BB	37285.	20.000 UG/L	1.20
57	248	1006	16:46	4	0.948	A BB	14748.	20.000 UG/L	1.20
58	284	1021	17:01	4	0.962	A BB	15602.	20.000 UG/L	1.20
59	266	1048	17:28	4	0.988	A BB	11391.	20.000 UG/L	1.20
60	178	1063	17:43	4	1.002	A BV	68770.	20.000 UG/L	1.20
61	178	1069	17:49	4	1.008	A VB	73582.	20.000 UG/L	1.20
62	149	1167	19:27	4	1.100	A BB	72611.	20.000 UG/L	1.20
63	202	1256	20:56	5	0.881	A BV	74161.	20.000 UG/L	1.20
64	149	1370	22:50	5	0.961	A BB	28615.	20.000 UG/L	1.20
65	252	1430	23:50	5	1.003	A BB	9623.	20.000 UG/L	1.20
66	228	1424	23:44	5	0.999	A BV	52710.	20.000 UG/L	1.20

004683

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	149	1460	24:20	5	1.024	A BB	40248.	20.000 UG/L	1.20
68	252	1628	27:08	6	0.993	A BB	36241.	20.000 UG/L	1.20
69	276	1898	31:38	6	1.157	A BB	30673.	20.000 UG/L	1.20
70	278	1914	31:54	6	1.167	A BB	32508.	20.000 UG/L	1.20
71	276	1976	32:56	6	1.205	A BB	32732.	20.000 UG/L	1.20
72	244	1290	21:30	5	0.905	M XX	59448.	20.000 UG/L	1.20
73	202	1227	20:27	4	1.156	M XX	71788.	20.000 UG/L	1.20
74	228	1429	23:49	5	1.002	M XX	48146.	20.000 UG/L	1.20
75	149	1545	25:45	6	0.942	M XX	51686.	20.000 UG/L	1.20
76	252	1574	26:14	6	0.960	M XX	45461.	20.000 UG/L	1.20
77	252	1578	26:18	6	0.962	M XX	45460.	20.000 UG/L	1.20

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	15:42	1.00	1.095	1.00	20.00	20.00	0.873	0.873	1.00
52	15:41	1.00	1.094	1.00	20.00	20.00	0.455	0.455	1.00
53	15:34	1.00	1.086	1.00	20.00	20.00	1.037	1.037	1.00
54	15:50	1.00	1.105	1.00	20.00	20.00	0.120	0.120	1.00
55	15:56	1.00	0.902	1.00	20.00	20.00	0.127	0.127	1.00
56	16:00	1.00	0.906	1.00	20.00	20.00	0.479	0.479	1.00
57	16:46	1.00	0.949	1.00	20.00	20.00	0.190	0.190	1.00
58	17:01	1.00	0.963	1.00	20.00	20.00	0.201	0.201	1.00
59	17:28	1.00	0.989	1.00	20.00	20.00	0.146	0.146	1.00
60	17:44	1.00	1.004	1.00	20.00	20.00	0.884	0.884	1.00
61	17:50	1.00	1.009	1.00	20.00	20.00	0.946	0.946	1.00
62	19:27	1.00	1.101	1.00	20.00	20.00	0.934	0.934	1.00
63	20:56	1.00	0.880	1.00	20.00	20.00	1.382	1.382	1.00
64	22:50	1.00	0.960	1.00	20.00	20.00	0.533	0.533	1.00
65	23:49	1.00	1.001	1.00	20.00	20.00	0.179	0.179	1.00
66	23:45	1.00	0.999	1.00	20.00	20.00	0.982	0.982	1.00
67	24:20	1.00	1.023	1.00	20.00	20.00	0.750	0.750	1.00
68	27:12	1.00	0.995	1.00	20.00	20.00	1.081	1.081	1.00
69	31:52	0.99	1.166	0.99	20.00	20.00	0.915	0.915	1.00
70	32:07	0.99	1.175	0.99	20.00	20.00	0.970	0 970	1.00
71	33:14	0.99	1.216	0.99	20.00	20.00	0.977	0.977	1.00
72	21:30	1.00	0.904	1.00	20.00	20.00	1.108	1.108	1.00
73	20:27	1.00	1.158	1.00	20.00	20.00	0.923	0.923	1.00
74	23:51	1.00	1.003	1.00	20.00	20.00	0.897	0.897	1.00
75	25:45	1.00	0.942	1.00	20.00	20.00	1.542	1.542	1.00
76	26:19	1.00	0.963	1.00	20.00	20.00	1.356	1.356	1.00
77	26:22	1.00	0.965	1.00	20.00	20.00	1.357	1.357	1.00

Case 7770 C50805874 SStd 20

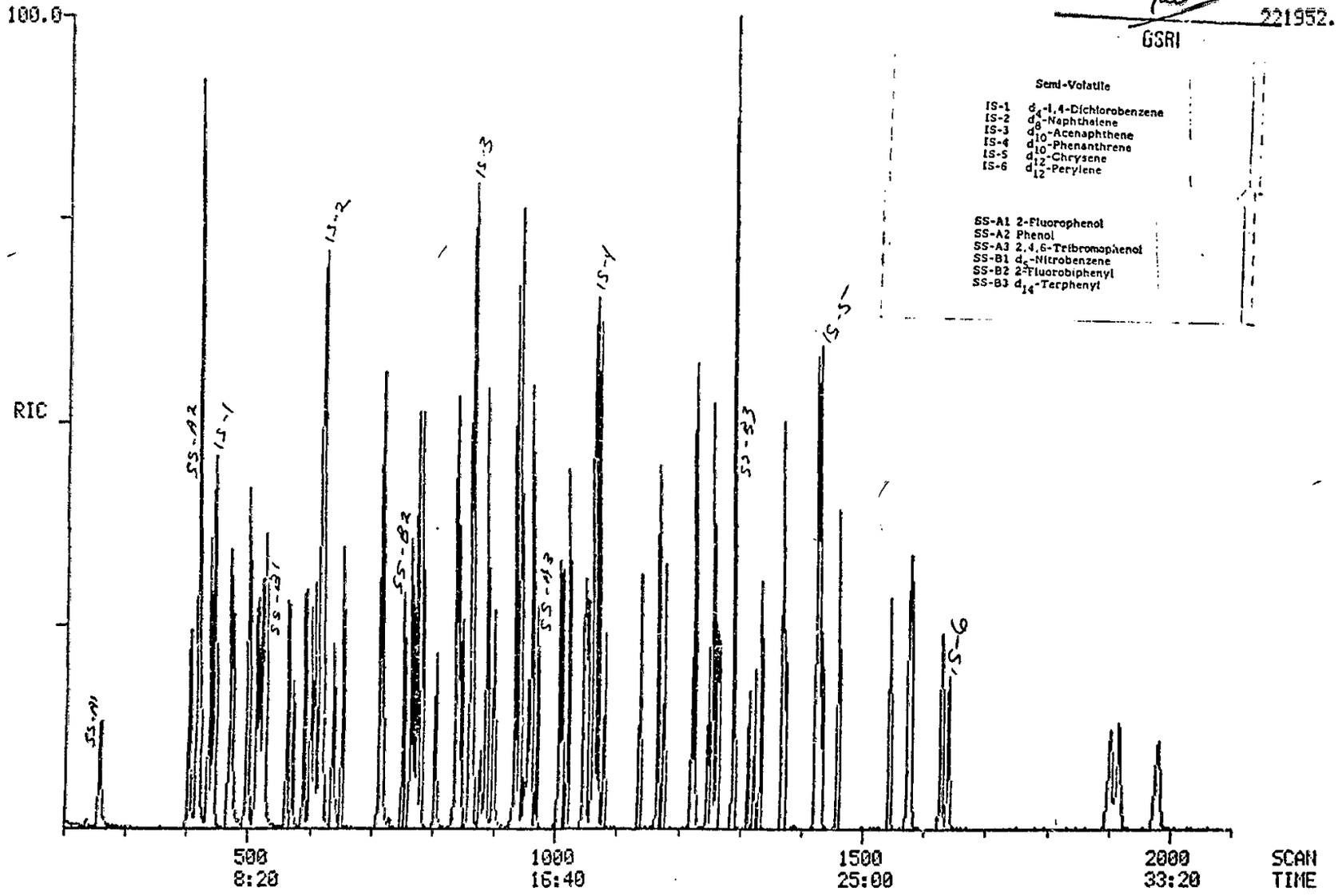
004684

RIC
08/05/87 11:44:00
SAMPLE: SSTD50 (50 PPM) 865-69-SVP50 CASE: 7770
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: C5080587B #1
CALI: C5080587B #1

SCANS 200 TO 2100

REVIEWED
AUG 06 1987
221952.
GSRI



Semi-Volatile

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004685

uantitation Report File: CS080587B

Data: CS080587B.TI
08/05/87 11:44:00
ample: SSTD50 (50 PPM) 863-69-SVP50 CASE: 7770
onds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.000
ubmitted by: EPA Analyst: GK Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
esp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)
13	C315	PHENOL*	
14	C325	BIS(2 CHLOROETHYL)ETHER	
15	C330	2-CHLOROPHENOL	
16	C335	1,3-DICHLOROBENZENE	
17	C340	14DICHLOROBENZENE*	
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	
20	C355	2-METHYLPHENOL	
21	C360	BIS(2-CHLORDISOPROPYL)ETHER	
22	C365	4-METHYLPHENOL	
23	C370	NITROSOPROPYLAMINE**	
24	C375	HEXACHLOROETHANE	
25	C410	NITROBENZENE	
26	C415	ISOPHORONE	
27	C420	2-NITROPHENOL*	
28	C425	2,4-DIMETHYLPHENOL	
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	
31	C440	2,4-DICHLOROPHENOL*	
32	C445	1,2,4-TRICHLOROBENZENE	
33	C450	NAPHTHALENE	
34	C455	4-CHLOROANILINE	
35	C460	CL6BUTADIENE*	
36	C465	4CHLORO3METHYLPHENOL*	
37	C470	2-METHYLNAPTHALENE	
38	C510	CL6CYCLOPENTADIENE**	
39	C515	246TRICHLOROPHENOL*	
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	
44	C540	ACENAPHTHYLENE	
45	C545	3-NITROANILINE	
46	C550	ACENAPTHENE*	
47	C555	24DINITROPHENOL**	

004686

Case 7770 CS080587AB 55std 50

No	Name	
48	C560	4NITROPHENOL**
49	C565	DIBENZOFURAN
50	C570	2,4-DINITROTOLUENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	441	7:21	1	1.000	A BB	38707.	40.000 UG/L	1.06
2	136	617	10:17	2	1.000	A BB	136322.	40.000 UG/L	1.06
3	164	860	14:20	3	1.000	A BB	84346.	40.000 UG/L	1.06
4	188	1060	17:40	4	1.000	A BB	136925.	40.000 UG/L	1.06
5	240	1425	23:45	5	1.000	A BB	92870.	40.000 UG/L	1.06
6	264	1639	27:19	6	1.000	A BB	63852.	40.000 UG/L	1.06
7	112	258	4:18	1	0.585	A BB	57090.	50.000 UG/L	1.32
8	99	416	6:56	1	0.943	A BB	116128.	50.000 UG/L	1.32
9	82	523	8:43	2	0.848	A BB	68116.	50.000 UG/L	1.32
10	172	774	12:54	3	0.900	A BB	124664.	50.000 UG/L	1.32
11	330	969	16:09	4	0.914	A BB	23084.	50.000 UG/L	1.32
12	244	1289	21:29	5	0.905	A BB	111971.	50.000 UG/L	1.32
13	94	417	6:57	1	0.946	A BB	93308.	50.000 UG/L	1.32
14	93	418	6:58	1	0.948	A VB	76214.	50.000 UG/L	1.32
15	128	417	6:57	1	0.946	A BB	71579.	50.000 UG/L	1.32
16	146	435	7:15	1	0.986	A BV	71667.	50.000 UG/L	1.32
17	146	443	7:23	1	1.005	A VB	77568.	50.000 UG/L	1.32
18	108	472	7:52	1	1.070	A BB	42966.	50.000 UG/L	1.32
19	146	468	7:48	1	1.061	A BB	71326.	50.000 UG/L	1.32
20	108	498	8:18	1	1.129	A BB	63727.	50.000 UG/L	1.32
21	45	496	8:16	1	1.125	A BB	67648.	50.000 UG/L	1.32
22	107	519	8:39	1	1.177	A BB	63600.	50.000 UG/L	1.32
23	130	515	8:35	1	1.168	A BB	12364.	50.000 UG/L	1.32
24	117	511	8:31	1	1.159	A BB	28165.	50.000 UG/L	1.32
25	77	525	8:45	2	0.851	A VV	66980.	50.000 UG/L	1.32
26	82	561	9:21	2	0.909	A BB	123186.	50.000 UG/L	1.32
27	139	570	9:30	2	0.924	A BB	37836.	50.000 UG/L	1.32
28	122	590	9:50	2	0.956	A BB	48928.	50.000 UG/L	1.32
29	122	620	10:20	2	1.005	A BV	34404.	50.000 UG/L	1.32
30	93	600	10:00	2	0.972	A BB	77239.	50.000 UG/L	1.32
31	162	606	10:06	2	0.982	A BB	51166.	50.000 UG/L	1.32
32	180	614	10:14	2	0.995	A BB	56666.	50.000 UG/L	1.32
33	128	620	10:20	2	1.005	A BB	177139.	50.000 UG/L	1.32
34	127	636	10:36	2	1.031	A BB	68506.	50.000 UG/L	1.32
35	225	652	10:52	2	1.057	A BB	29490.	50.000 UG/L	1.32
36	107	712	11:52	2	1.154	A BV	52431.	50.000 UG/L	1.32
37	141	716	11:56	2	1.160	A BV	10512.	50.000 UG/L	1.32
38	237	751	12:31	3	0.873	A BB	34454.	50.000 UG/L	1.32
39	196	763	12:43	3	0.887	A BV	39111.	50.000 UG/L	1.32
40	196	768	12:48	3	0.893	A VB	41147.	50.000 UG/L	1.32
41	162	781	13:01	3	0.908	A BB	114685.	50.000 UG/L	1.32
42	138	804	13:24	3	0.935	A BB	45973.	50.000 UG/L	1.32
43	163	841	14:01	3	0.978	A BB	120068.	50.000 UG/L	1.32
44	152	837	13:57	3	0.973	A BB	169014.	50.000 UG/L	1.32
45	138	862	14:22	3	1.002	A BB	31461.	50.000 UG/L	1.32
46	154	864	14:24	3	1.005	A BB	107505.	50.000 UG/L	1.32
47	184	876	14:36	3	1.019	A BB	20869.	50.000 UG/L	1.32
48	109	897	14:57	3	1.043	A BV	10815.	50.000 UG/L	1.32
49	168	886	14:46	3	1.030	A BB	158661.	50.000 UG/L	1.32
50	165	898	14:58	3	1.044	A BB	34521.	50.000 UG/L	1.32

004687

Case 7770 C5080587A/B mg 5std50

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:14	1.02	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:53	1.11	0.537	1.09	50.00	50.00	1.180	1.180	1.00
8	6:50	1.01	0.945	1.00	50.00	50.00	2.400	2.400	1.00
9	8:41	1.00	0.844	1.00	50.00	50.00	0.400	0.400	1.00
10	12:55	1.00	0.901	1.00	50.00	50.00	1.182	1.182	1.00
11	16:10	1.00	0.915	1.00	50.00	50.00	0.135	0.135	1.00
12	21:30	1.00	0.904	1.00	50.00	50.00	0.965	0.965	1.00
13	6:52	1.01	0.949	1.00	50.00	50.00	1.928	1.928	1.00
14	6:51	1.02	0.947	1.00	50.00	50.00	1.575	1.575	1.00
15	6:50	1.02	0.945	1.00	50.00	50.00	1.479	1.479	1.00
16	7:08	1.02	0.986	1.00	50.00	50.00	1.482	1.482	1.00
17	7:16	1.02	1.005	1.00	50.00	50.00	1.603	1.603	1.00
18	7:48	1.01	1.078	0.99	50.00	50.00	0.888	0.888	1.00
19	7:42	1.01	1.065	1.00	50.00	50.00	1.474	1.474	1.00
20	8:15	1.01	1.141	0.99	50.00	50.00	1.317	1.317	1.00
21	8:12	1.01	1.134	0.99	50.00	50.00	1.398	1.398	1.00
22	8:38	1.00	1.194	0.99	50.00	50.00	1.314	1.314	1.00
23	8:34	1.00	1.184	0.99	50.00	50.00	0.256	0.256	1.00
24	8:26	1.01	1.166	0.99	50.00	50.00	0.582	0.582	1.00
25	8:44	1.00	0.849	1.00	50.00	50.00	0.393	0.393	1.00
26	9:22	1.00	0.911	1.00	50.00	50.00	0.723	0.723	1.00
27	9:28	1.00	0.921	1.00	50.00	50.00	0.222	0.222	1.00
28	9:49	1.00	0.955	1.00	50.00	50.00	0.287	0.287	1.00
29	10:29	0.99	1.019	0.99	50.00	50.00	0.202	0.202	1.00
30	10:00	1.00	0.972	1.00	50.00	50.00	0.453	0.453	1.00
31	10:05	1.00	0.981	1.00	50.00	50.00	0.300	0.300	1.00
32	10:13	1.00	0.994	1.00	50.00	50.00	0.333	0.333	1.00
33	10:19	1.00	1.003	1.00	50.00	50.00	1.040	1.040	1.00
34	10:35	1.00	1.029	1.00	50.00	50.00	0.402	0.402	1.00
35	10:51	1.00	1.055	1.00	50.00	50.00	0.173	0.173	1.00
36	11:53	1.00	1.156	1.00	50.00	50.00	0.308	0.308	1.00
37	11:56	1.00	1.160	1.00	50.00	50.00	0.590	0.590	1.00
38	12:30	1.00	0.872	1.00	50.00	50.00	0.327	0.327	1.00
39	12:43	1.00	0.887	1.00	50.00	50.00	0.371	0.371	1.00
40	12:48	1.00	0.893	1.00	50.00	50.00	0.390	0.390	1.00
41	13:02	1.00	0.909	1.00	50.00	50.00	1.088	1.088	1.00
42	13:25	1.00	0.936	1.00	50.00	50.00	0.436	0.436	1.00
43	14:02	1.00	0.979	1.00	50.00	50.00	1.139	1.139	1.00
44	13:58	1.00	0.974	1.00	50.00	50.00	1.603	1.603	1.00
45	14:24	1.00	1.005	1.00	50.00	50.00	0.298	0.298	1.00
46	14:25	1.00	1.006	1.00	50.00	50.00	1.020	1.020	1.00
47	14:38	1.00	1.021	1.00	50.00	50.00	0.198	0.198	1.00
48	14:58	1.00	1.044	1.00	50.00	50.00	0.103	0.103	1.00
49	14:48	1.00	1.033	1.00	50.00	50.00	1.505	1.505	1.00
50	15:00	1.00	1.047	1.00	50.00	50.00	0.327	0.327	1.00

004688

Quantitation Report File: CS080587B

Data: CS080587B.TI
08/05/87 11:44:00
Sample: SSTD50 (50 PPM) 865-69-SVP50 CASE: 7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula:
Submitted by: EPA Instrument: C
Analyst: GK Weight: 0.000
Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
51	C575	2,6-DINITROTOLUENE
52	C580	DIETHYL PHTHALATE
53	C585	4-CHLOROPHENYL PHENYL ETHER
54	C590	FLUORENE
55	C595	4-NITROANILINE
56	C610	4,6-DINITRO-2-METHYLPHENOL
57	C615	DIPHENYLAMINE*
58	C625	4-BROMOPHENYL PHENYL ETHER
59	C630	HEXACHLOROBENZENE
60	C635	PENTACHLOROPHENOL*
61	C640	PHENANTHRENE
62	C645	ANTHRACENE
63	C650	DI-N-BUTYL PHTHALATE
64	C655	FLUORANTHENE*
65	C715	PYRENE
66	C720	BUTYL BENZYL PHTHALATE
67	C725	3,3'-DICHLOROBENZIDINE
68	C730	BENZO(A)ANTHRACENE
69	C735	BIS(2-ETHYLHEXYL)PHTHALATE
70	C740	CHRYSENE
71	C760	DINOCTYLPHTHALATE*
72	C775	BENZO(A)PYRENE*
73	C780	INDENO(1,2,3-CD)PYRENE
74	C785	DIBENZO(A,H)ANTHRACENE
75	C790	BENZO(G,H,I)PERYLENE
76	C765	BENZO(B)FLUORANTHENE
77	C770	BENZO(K)FLUORANTHENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	846	14:06	3	0.984	A BB	32521.	50.000 UG/L	1.32
52	149	941	15:41	3	1.094	A VB	110998.	50.000 UG/L	1.32
53	204	940	15:40	3	1.093	A BB	59708.	50.000 UG/L	1.32
54	166	933	15:33	3	1.085	A BV	121634.	50.000 UG/L	1.32
55	138	947	15:47	3	1.101	A BB	18630.	50.000 UG/L	1.32
56	198	953	15:53	4	0.899	A BB	24429.	50.000 UG/L	1.32
57	169	958	15:58	4	0.904	A BB	96623.	50.000 UG/L	1.32
58	248	1005	16:45	4	0.948	A BB	39748.	50.000 UG/L	1.32
59	284	1020	17:00	4	0.962	A BB	43282.	50.000 UG/L	1.32
60	266	1047	17:27	4	0.988	A BB	25405.	50.000 UG/L	1.32
61	178	1063	17:43	4	1.003	A BV	170059.	50.000 UG/L	1.32
62	178	1069	17:49	4	1.008	A VB	157883.	50.000 UG/L	1.32
63	149	1166	19:26	4	1.100	A VV	186819.	50.000 UG/L	1.32
64	202	1226	20:26	4	1.157	A BB	152530.	50.000 UG/L	1.32
65	202	1255	20:55	5	0.881	A VB	151513.	50.000 UG/L	1.32
66	149	1369	22:49	5	0.961	A BB	61176.	50.000 UG/L	1.32

004689

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	252	1428	23:48	5	1.002	A BB	27861.	50.000 UG/L	1.32
68	228	1423	23:43	5	0.999	A BV	126033.	50.000 UG/L	1.32
69	149	1459	24:19	5	1.024	A BB	83504.	50.000 UG/L	1.32
70	228	1428	23:48	5	1.002	A VB	123099.	50.000 UG/L	1.32
71	149	1544	25:44	6	0.942	A BB	132862.	50.000 UG/L	1.32
72	252	1628	27:08	6	0.993	A BB	99155.	50.000 UG/L	1.32
73	276	1901	31:41	6	1.160	A BV	85355.	50.000 UG/L	1.32
74	278	1916	31:56	6	1.169	A BB	78955.	50.000 UG/L	1.32
75	276	1979	32:59	6	1.207	A BB	82053.	50.000 UG/L	1.32
76	252	1574	26:14	6	0.960	M XX	118207.	50.000 UG/L	1.32
77	252	1578	26:18	6	0.963	M XX	115633.	50.000 UG/L	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	14:08	1.00	0.986	1.00	50.00	50.00	0.308	0.308	1.00
52	15:42	1.00	1.095	1.00	50.00	50.00	1.053	1.053	1.00
53	15:41	1.00	1.094	1.00	50.00	50.00	0.566	0.566	1.00
54	15:34	1.00	1.086	1.00	50.00	50.00	1.154	1.154	1.00
55	15:50	1.00	1.105	1.00	50.00	50.00	0.177	0.177	1.00
56	15:56	1.00	0.902	1.00	50.00	50.00	0.143	0.143	1.00
57	16:00	1.00	0.906	1.00	50.00	50.00	0.565	0.565	1.00
58	16:46	1.00	0.949	1.00	50.00	50.00	0.232	0.232	1.00
59	17:01	1.00	0.963	1.00	50.00	50.00	0.253	0.253	1.00
60	17:28	1.00	0.989	1.00	50.00	50.00	0.148	0.148	1.00
61	17:44	1.00	1.004	1.00	50.00	50.00	0.994	0.994	1.00
62	17:50	1.00	1.009	1.00	50.00	50.00	0.922	0.922	1.00
63	19:27	1.00	1.101	1.00	50.00	50.00	1.092	1.092	1.00
64	20:27	1.00	1.158	1.00	50.00	50.00	0.891	0.891	1.00
65	20:56	1.00	0.880	1.00	50.00	50.00	1.305	1.305	1.00
66	22:50	1.00	0.960	1.00	50.00	50.00	0.527	0.527	1.00
67	23:49	1.00	1.001	1.00	50.00	50.00	0.240	0.240	1.00
68	23:45	1.00	0.999	1.00	50.00	50.00	1.086	1.086	1.00
69	24:20	1.00	1.023	1.00	50.00	50.00	0.719	0.719	1.00
70	23:51	1.00	1.003	1.00	50.00	50.00	1.060	1.060	1.00
71	25:43	1.00	0.942	1.00	50.00	50.00	1.665	1.665	1.00
72	27:12	1.00	0.995	1.00	50.00	50.00	1.242	1.242	1.00
73	31:52	0.99	1.166	0.99	50.00	50.00	1.069	1.069	1.00
74	32:07	0.99	1.175	0.99	50.00	50.00	0.989	0.989	1.00
75	33:14	0.99	1.216	0.99	50.00	50.00	1.028	1.028	1.00
76	26:19	1.00	0.963	1.00	50.00	50.00	1.481	1.481	1.00
77	26:22	1.00	0.965	1.00	50.00	50.00	1.449	1.449	1.00

Case 7770 C5080587 AB mf 5 Std 50

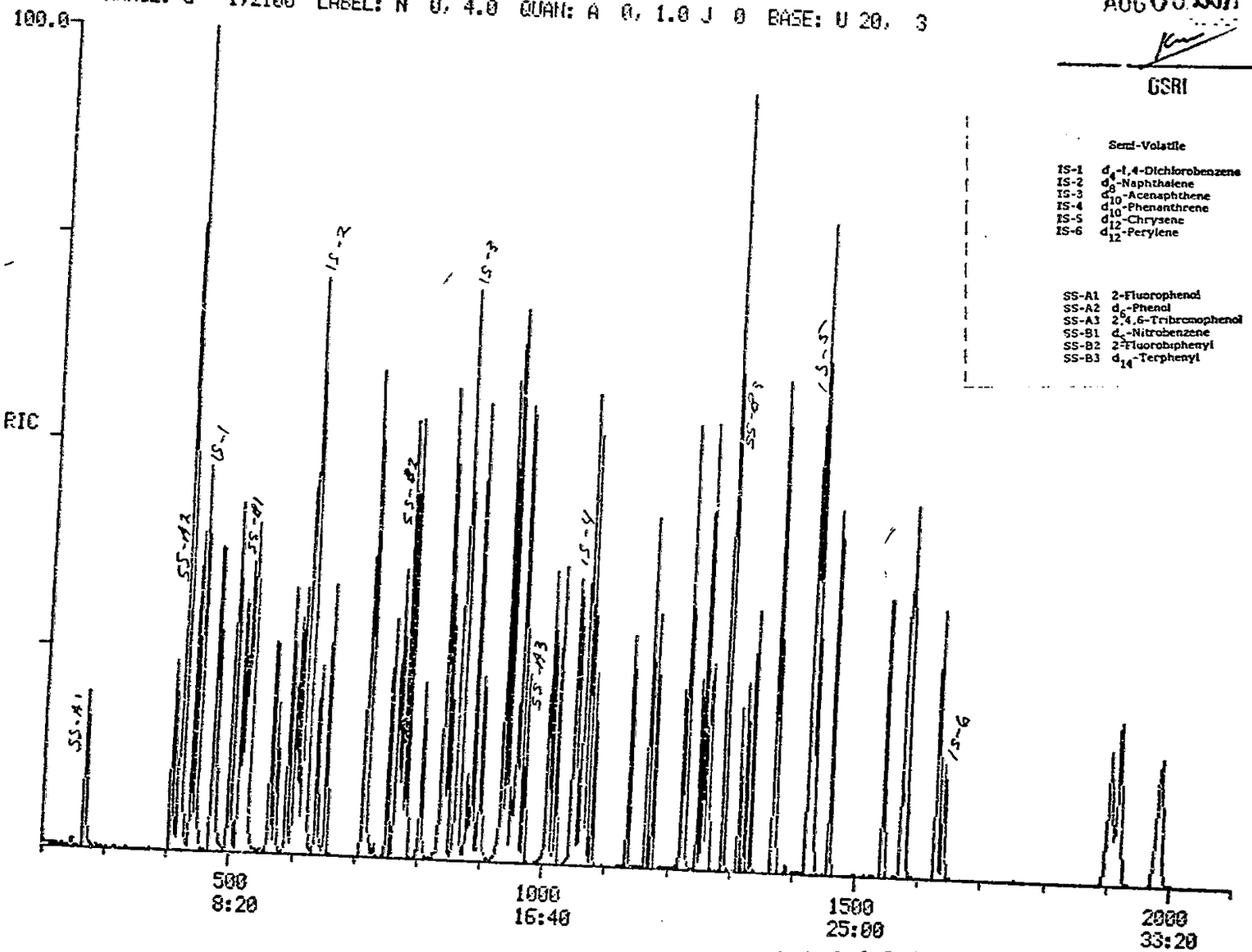
004690

RIC
08/05/87 13:12:00
SAMPLE: SSTD80 80 PPM 865-69-SVP80 CASE: 7770
CONDS.: 45/4/300012 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CS080587C #1
CALI: CS080587C #1

SCANS 200 TO 2100

REVIEWED
AUG 06 1987
GSRI
319488.



Semi-Volatile

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 d_6-Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004691

Quantitation Report File: CS080587C

Data: CS080587C.TI
08/05/87 13:12:00
Sample: SSTD80 80 PPM 865-69-SVP80 CASE: 7770
Cond.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.000
Submitted by: EPA Analyst: GK Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)
13	C315	PHENOL*	
14	C325	BIS(2 CHLOROETHYL)ETHER	
15	C330	2-CHLOROPHENOL	
16	C335	1,3-DICHLOROBENZENE	
17	C340	14DICHLOROBENZENE*	
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	
20	C355	2-METHYLPHENOL	
21	C360	BIS(2-CHLOROISOPROPYL)ETHER	
22	C365	4-METHYLPHENOL	
23	C370	NITROSOPROPYLAMINE**	
24	C375	HEXACHLOROETHANE	
25	C410	NITROBENZENE	
26	C415	ISOPHORONE	
27	C420	2-NITROPHENOL*	
28	C425	2,4-DIMETHYLPHENOL	
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	
31	C440	2,4-DICHLOROPHENOL*	
32	C445	1,2,4-TRICHLOROBENZENE	
33	C450	NAPHTHALENE	
34	C455	4-CHLOROANILINE	
35	C460	CL6BUTADIENE*	
36	C465	4CHLORO3METHYLPHENOL*	
37	C470	2-METHYLNAPTHALENE	
38	C510	CL6CYCLOPENTADIENE**	
39	C515	246TRICHLOROPHENOL*	
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	
44	C540	ACENAPHTHYLENE	
45	C545	3-NITROANILINE	
46	C550	ACENAPTHENE*	
47	C555	24DINITROPHENOL**	

004692

No	Name	
48	C560	4NITROPHENOL**
49	C565	DIBENZOFURAN
50	C570	2,4-DINITROTOLUENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	445	7:25	1	1.000	A BB	38430.	40.000 UG/L	0.68
2	136	619	10:19	2	1.000	A BB	133893.	40.000 UG/L	0.68
3	164	861	14:21	3	1.000	A BB	80450.	40.000 UG/L	0.68
4	188	1061	17:41	4	1.000	A VB	105457.	40.000 UG/L	0.68
5	240	1427	23:47	5	1.000	A BB	93766.	40.000 UG/L	0.68
6	264	1640	27:20	6	1.000	A BB	74261.	40.000 UG/L	0.68
7	112	269	4:29	1	0.604	A BB	91576.	80.000 UG/L	1.35
8	99	421	7:01	1	0.946	A BB	183413.	80.000 UG/L	1.35
9	82	526	8:46	2	0.850	A BB	116356.	80.000 UG/L	1.35
10	172	776	12:56	3	0.901	A BB	182373.	80.000 UG/L	1.35
11	330	971	16:11	4	0.915	A VB	28973.	80.000 UG/L	1.35
12	244	1290	21:30	5	0.904	A BB	165512.	80.000 UG/L	1.35
13	94	422	7:02	1	0.948	A VB	147230.	80.000 UG/L	1.35
14	93	422	7:02	1	0.948	A VB	113669.	80.000 UG/L	1.35
15	128	422	7:02	1	0.948	A BB	114991.	80.000 UG/L	1.35
16	146	439	7:19	1	0.987	A BV	115395.	80.000 UG/L	1.35
17	146	447	7:27	1	1.004	A VB	118487.	80.000 UG/L	1.35
18	108	475	7:55	1	1.067	A BB	64635.	80.000 UG/L	1.35
19	146	471	7:51	1	1.058	A BB	111599.	80.000 UG/L	1.35
20	108	501	8:21	1	1.126	A BB	88817.	80.000 UG/L	1.35
21	45	499	8:19	1	1.121	A BB	107045.	80.000 UG/L	1.35
22	107	522	8:42	1	1.173	A BB	100401.	80.000 UG/L	1.35
23	130	518	8:38	1	1.164	A BB	19576.	80.000 UG/L	1.35
24	117	513	8:33	1	1.153	A BB	44445.	80.000 UG/L	1.35
25	77	526	8:48	2	0.853	A VV	104598.	80.000 UG/L	1.35
26	82	565	9:25	2	0.913	A BB	192594.	80.000 UG/L	1.35
27	139	572	9:32	2	0.924	A VB	59338.	80.000 UG/L	1.35
28	122	592	9:52	2	0.956	A BB	80031.	80.000 UG/L	1.35
29	122	624	10:24	2	1.008	A BB	42415.	80.000 UG/L	1.35
30	93	603	10:03	2	0.974	A BV	125038.	80.000 UG/L	1.35
31	162	608	10:08	2	0.982	A BB	81912.	80.000 UG/L	1.35
32	180	616	10:16	2	0.995	A BB	89185.	80.000 UG/L	1.35
33	128	622	10:22	2	1.005	A BB	280490.	80.000 UG/L	1.35
34	127	638	10:38	2	1.031	A BB	94888.	80.000 UG/L	1.35
35	225	653	10:53	2	1.055	A BB	44954.	80.000 UG/L	1.35
36	107	714	11:54	2	1.153	A BB	83920.	80.000 UG/L	1.35
37	141	718	11:58	2	1.160	A BV	156182.	80.000 UG/L	1.35
38	237	752	12:32	3	0.873	A BB	52362.	80.000 UG/L	1.35
39	196	765	12:45	3	0.889	A BV	69913.	80.000 UG/L	1.35
40	196	769	12:49	3	0.893	A VB	52547.	80.000 UG/L	1.35
41	162	783	13:03	3	0.909	A BB	173040.	80.000 UG/L	1.35
42	138	806	13:26	3	0.936	A BB	69742.	80.000 UG/L	1.35
43	163	843	14:03	3	0.979	A BB	179470.	80.000 UG/L	1.35
44	152	839	13:59	3	0.974	A BB	259297.	80.000 UG/L	1.35
45	138	864	14:24	3	1.003	A BB	41620.	80.000 UG/L	1.35
46	154	866	14:26	3	1.006	A BV	166413.	80.000 UG/L	1.35
47	184	878	14:38	3	1.020	A BB	29597.	80.000 UG/L	1.35
48	109	898	14:58	3	1.043	A BB	16409.	80.000 UG/L	1.35
49	168	888	14:48	3	1.031	A BB	240332.	80.000 UG/L	1.35
50	165	899	14:59	3	1.044	A BB	53802.	80.000 UG/L	1.35

Case 7770 C5080587AL mg 2 Std 80

004693

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:14	1.03	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:53	1.15	0.537	1.13	80.00	80.00	1.191	1.191	1.00
8	6:50	1.03	0.945	1.00	80.00	80.00	2.386	2.386	1.00
9	8:41	1.01	0.844	1.01	80.00	80.00	0.435	0.435	1.00
10	12:55	1.00	0.901	1.00	80.00	80.00	1.133	1.133	1.00
11	16:10	1.00	0.915	1.00	80.00	80.00	0.137	0.137	1.00
12	21:30	1.00	0.904	1.00	80.00	80.00	0.883	0.883	1.00
13	6:52	1.02	0.949	1.00	80.00	80.00	1.916	1.916	1.00
14	6:51	1.03	0.947	1.00	80.00	80.00	1.479	1.479	1.00
15	6:50	1.03	0.945	1.00	80.00	80.00	1.496	1.496	1.00
16	7:08	1.03	0.986	1.00	80.00	80.00	1.501	1.501	1.00
17	7:16	1.03	1.005	1.00	80.00	80.00	1.542	1.542	1.00
18	7:48	1.01	1.078	0.99	80.00	80.00	0.841	0.841	1.00
19	7:42	1.02	1.065	0.99	80.00	80.00	1.452	1.452	1.00
20	8:15	1.01	1.141	0.99	80.00	80.00	1.156	1.156	1.00
21	8:12	1.01	1.134	0.99	80.00	80.00	1.393	1.393	1.00
22	8:38	1.01	1.194	0.98	80.00	80.00	1.306	1.306	1.00
23	8:34	1.01	1.184	0.98	80.00	80.00	0.255	0.255	1.00
24	8:26	1.01	1.166	0.99	80.00	80.00	0.578	0.578	1.00
25	8:44	1.01	0.849	1.00	80.00	80.00	0.391	0.391	1.00
26	9:22	1.01	0.911	1.00	80.00	80.00	0.719	0.719	1.00
27	9:28	1.01	0.921	1.00	80.00	80.00	0.222	0.222	1.00
28	9:49	1.01	0.955	1.00	80.00	80.00	0.299	0.299	1.00
29	10:29	0.99	1.019	0.99	80.00	80.00	0.158	0.158	1.00
30	10:00	1.01	0.972	1.00	80.00	80.00	0.467	0.467	1.00
31	10:05	1.00	0.981	1.00	80.00	80.00	0.306	0.306	1.00
32	10:13	1.00	0.994	1.00	80.00	80.00	0.333	0.333	1.00
33	10:19	1.00	1.003	1.00	80.00	80.00	1.047	1.047	1.00
34	10:35	1.00	1.029	1.00	80.00	80.00	0.354	0.354	1.00
35	10:51	1.00	1.055	1.00	80.00	80.00	0.168	0.168	1.00
36	11:53	1.00	1.156	1.00	80.00	80.00	0.313	0.313	1.00
37	11:56	1.00	1.160	1.00	80.00	80.00	0.583	0.583	1.00
38	12:30	1.00	0.872	1.00	80.00	80.00	0.325	0.325	1.00
39	12:43	1.00	0.887	1.00	80.00	80.00	0.435	0.435	1.00
40	12:48	1.00	0.893	1.00	80.00	80.00	0.327	0.327	1.00
41	13:02	1.00	0.909	1.00	80.00	80.00	1.075	1.075	1.00
42	13:25	1.00	0.936	1.00	80.00	80.00	0.433	0.433	1.00
43	14:02	1.00	0.979	1.00	80.00	80.00	1.115	1.115	1.00
44	13:58	1.00	0.974	1.00	80.00	80.00	1.612	1.612	1.00
45	14:24	1.00	1.005	1.00	80.00	80.00	0.259	0.259	1.00
46	14:25	1.00	1.006	1.00	80.00	80.00	1.034	1.034	1.00
47	14:38	1.00	1.021	1.00	80.00	80.00	0.184	0.184	1.00
48	14:58	1.00	1.044	1.00	80.00	80.00	0.102	0.102	1.00
49	14:48	1.00	1.033	1.00	80.00	80.00	1.494	1.494	1.00
50	15:00	1.00	1.047	1.00	80.00	80.00	0.334	0.334	1.00

C5080587A(mg 55d80 7770

004694

Quantitation Report File: CS080587C

Data: CS080587C.TI
08/05/87 13:12:00
Sample: SSTD80 80 PPM 865-69-SVP80 CASE: 7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.000
Submitted by: EPA Analyst: GK Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
51	C575	2,6-DINITROTOLUENE
52	C580	DIETHYL PHTHALATE
53	C585	4-CHLOROPHENYL PHENYL ETHER
54	C590	FLUORENE
55	C595	4-NITROANILINE
56	C610	4,6-DINITRO-2-METHYLPHENOL
57	C615	DIPHENYLAMINE*
58	C625	4-BROMOPHENYL PHENYL ETHER
59	C630	HEXACHLOROBENZENE
60	C635	PENTACHLOROPHENOL*
61	C640	PHENANTHRENE
62	C645	ANTHRACENE
63	C650	DI-N-BUTYL PHTHALATE
64	C655	FLUORANTHENE*
65	C715	PYRENE
66	C720	BUTYL BENZYL PHTHALATE
67	C725	3,3'-DICHLOROBENZIDINE
68	C730	BENZO(A)ANTHRACENE
69	C735	BIS(2-ETHYLHEXYL)PHTHALATE
70	C740	CHRYSENE
71	C760	DINOCTYLPHTHALATE*
72	C765	BENZO(B)FLUORANTHENE
73	C770	BENZO(K)FLUORANTHENE
74	C775	BENZO(A)PYRENE*
75	C780	INDENO(1,2,3-CD)PYRENE
76	C785	DIBENZO(A,H)ANTHRACENE
77	C790	BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	848	14:08	3	0.985	A BB	49447.	80.000 UG/L	1.35
52	149	942	15:42	3	1.094	A BB	158146.	80.000 UG/L	1.35
53	204	941	15:41	3	1.093	A BB	92334.	80.000 UG/L	1.35
54	166	935	15:35	3	1.086	A BB	183207.	80.000 UG/L	1.35
55	138	948	15:48	3	1.101	A BB	22223.	80.000 UG/L	1.35
56	198	955	15:55	4	0.900	A VB	34662.	80.000 UG/L	1.35
57	169	960	16:00	4	0.905	A BB	133048.	80.000 UG/L	1.35
58	248	1007	16:47	4	0.949	A BB	58651.	80.000 UG/L	1.35
59	284	1021	17:01	4	0.962	A BB	63170.	80.000 UG/L	1.35
60	266	1048	17:28	4	0.988	A BB	36545.	80.000 UG/L	1.35
61	178	1064	17:44	4	1.003	A BV	225106.	80.000 UG/L	1.35
62	178	1070	17:50	4	1.008	A VB	202342.	80.000 UG/L	1.35
63	149	1167	19:27	4	1.100	A VV	252573.	80.000 UG/L	1.35
64	202	1227	20:27	4	1.156	A VB	219124.	80.000 UG/L	1.35
65	202	1256	20:56	5	0.880	A BB	221140.	80.000 UG/L	1.35
66	149	1370	22:50	5	0.960	A BB	102302.	80.000 UG/L	1.35

004695

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	252	1429	23:49	5	1.001	A BB	50583.	80.000 UG/L	1.35
68	228	1425	23:45	5	0.999	A BV	205077.	80.000 UG/L	1.35
69	149	1460	24:20	5	1.023	A BB	141453.	80.000 UG/L	1.35
70	228	1430	23:50	5	1.002	A VB	209277.	80.000 UG/L	1.35
71	149	1545	25:45	6	0.942	A BB	239315.	80.000 UG/L	1.35
72	252	1576	26:16	6	0.961	A VV	214738.	80.000 UG/L	1.35
73	252	1581	26:21	6	0.964	A VB	182986.	80.000 UG/L	1.35
74	252	1631	27:11	6	0.995	A BB	187237.	80.000 UG/L	1.35
75	276	1905	31:45	6	1.162	A BV	184964.	80.000 UG/L	1.35
76	278	1920	32:00	6	1.171	A BB	173397.	80.000 UG/L	1.35
77	276	1987	33:07	6	1.212	A BB	174615.	80.000 UG/L	1.35

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	14:08	1.00	0.986	1.00	80.00	80.00	0.307	0.307	1.00
52	15:42	1.00	1.095	1.00	80.00	80.00	0.983	0.983	1.00
53	15:41	1.00	1.094	1.00	80.00	80.00	0.574	0.574	1.00
54	15:34	1.00	1.086	1.00	80.00	80.00	1.139	1.139	1.00
55	15:50	1.00	1.105	1.00	80.00	80.00	0.138	0.138	1.00
56	15:56	1.00	0.902	1.00	80.00	80.00	0.164	0.164	1.00
57	16:00	1.00	0.906	1.00	80.00	80.00	0.631	0.631	1.00
58	16:46	1.00	0.949	1.00	80.00	80.00	0.278	0.278	1.00
59	17:01	1.00	0.963	1.00	80.00	80.00	0.300	0.300	1.00
60	17:28	1.00	0.989	1.00	80.00	80.00	0.173	0.173	1.00
61	17:44	1.00	1.004	1.00	80.00	80.00	1.067	1.067	1.00
62	17:50	1.00	1.009	1.00	80.00	80.00	0.959	0.959	1.00
63	19:27	1.00	1.101	1.00	80.00	80.00	1.198	1.198	1.00
64	20:27	1.00	1.158	1.00	80.00	80.00	1.039	1.039	1.00
65	20:56	1.00	0.880	1.00	80.00	80.00	1.179	1.179	1.00
66	22:50	1.00	0.960	1.00	80.00	80.00	0.546	0.546	1.00
67	23:49	1.00	1.001	1.00	80.00	80.00	0.270	0.270	1.00
68	23:45	1.00	0.999	1.00	80.00	80.00	1.094	1.094	1.00
69	24:20	1.00	1.023	1.00	80.00	80.00	0.754	0.754	1.00
70	23:51	1.00	1.003	1.00	80.00	80.00	1.116	1.116	1.00
71	25:45	1.00	0.942	1.00	80.00	80.00	1.611	1.611	1.00
72	26:19	1.00	0.963	1.00	80.00	80.00	1.446	1.446	1.00
73	26:22	1.00	0.965	1.00	80.00	80.00	1.232	1.232	1.00
74	27:12	1.00	0.995	1.00	80.00	80.00	1.261	1.261	1.00
75	31:52	1.00	1.166	1.00	80.00	80.00	1.245	1.245	1.00
76	32:07	1.00	1.175	1.00	80.00	80.00	1.167	1.167	1.00
77	33:14	1.00	1.216	1.00	80.00	80.00	1.176	1.176	1.00

Case 7770 C5080587AC mf 55ld 80

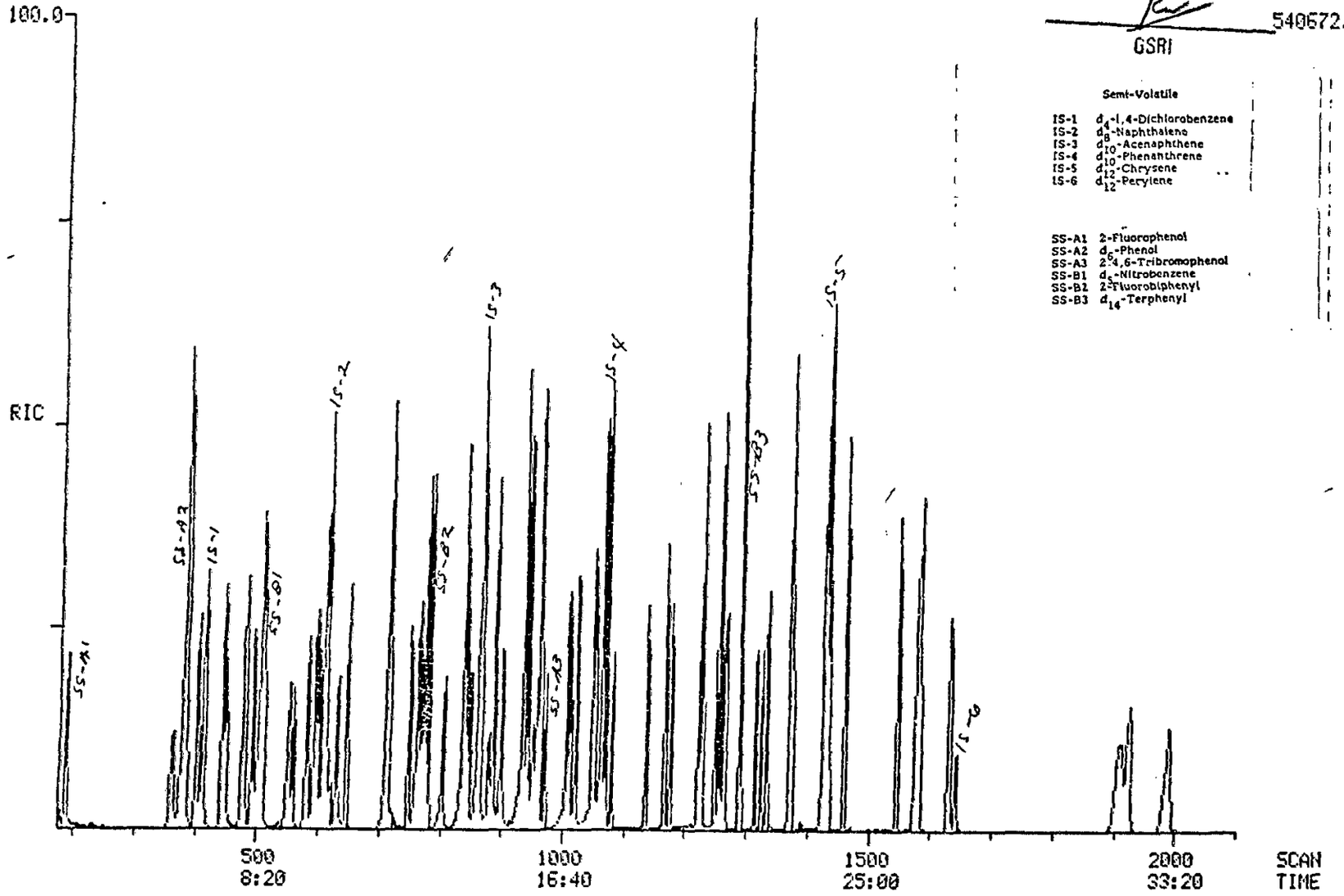
004696

RIC
08/05/87 13:54:00
SAMPLE: SSTD120 120 PPM 865-69-SVP120 CASE: 7770
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CS080587D #1
CALI: CS080587D #1

SCANS 175 TO 2100

REVIEWED
AUG 06 1987
GSRI
540672.



Semi-Volatile

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 d_6-Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004697

Quantitation Report File: CS080587D

Data: CS080587D.TI
08/05/87 13:54:00
Sample: SSTD120 120 PPM 865-69-SVP120 CASE: 7770
Cond.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.000
Submitted by: EPA Analyst: GK Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)
13	C315	PHENOL*	
14	C325	BIS(2 CHLOROETHYL)ETHER	
15	C330	2-CHLOROPHENOL	
16	C335	1,3-DICHLOROBENZENE	
17	C340	14DICHLOROBENZENE*	
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	
20	C355	2-METHYLPHENOL	
21	C360	BIS(2-CHLOROISOPROPYL)ETHER	
22	C365	4-METHYLPHENOL	
23	C370	NITROSOPROPYLAMINE**	
24	C375	HEXACHLOROETHANE	
25	C410	NITROBENZENE	
26	C415	ISOPHORONE	
27	C420	2-NITROPHENOL*	
28	C425	2,4-DIMETHYLPHENOL	
29	C435	BIS(2-CHLOROETHOXY)METHANE	
30	C440	2,4-DICHLOROPHENOL*	
31	C445	1,2,4-TRICHLOROBENZENE	
32	C450	NAPHTHALENE	
33	C455	4-CHLOROANILINE	
34	C460	CL6BUTADIENE*	
35	C465	4CHLORO3METHYLPHENOL*	
36	C470	2-METHYLNAPTHALENE	
37	C510	CL6CYCLOPENTADIENE**	
38	C515	246TRICHLOROPHENOL*	
39	C520	2,4,5-TRICHLOROPHENOL	
40	C525	2-CHLORONAPHTHALENE	
41	C530	2-NITROANILINE	
42	C535	DIMETHYL PHTHALATE	
43	C540	ACENAPHTHYLENE	
44	C545	3-NITROANILINE	
45	C550	ACENAPTHENE*	
46	C555	24DINITROPHENOL**	
47	C560	4NITROPHENOL**	

004698

No	Name	
48	C565	DIBENZOFURAN
49	C570	2,4-DINITROTOLUENE
50	C575	2,6-DINITROTOLUENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	410	6:50	1	1.000	A BB	37863.	40.000 UG/L	0.46
2	136	610	10:10	2	1.000	A BB	131467.	40.000 UG/L	0.46
3	164	860	14:20	3	1.000	A BB	74517.	40.000 UG/L	0.46
4	188	1061	17:41	4	1.000	A BB	111781.	40.000 UG/L	0.46
5	240	1427	23:47	5	1.000	A BB	108653.	40.000 UG/L	0.46
6	264	1641	27:21	6	1.000	A BB	76382.	40.000 UG/L	0.46
7	112	188	3:08	1	0.459	A BB	154057.	120.000 UG/L	1.37
8	99	380	6:20	1	0.927	A BB	283927.	120.000 UG/L	1.37
9	82	508	8:28	2	0.833	A BB	164474.	120.000 UG/L	1.37
10	172	774	12:54	3	0.900	A BB	286646.	120.000 UG/L	1.37
11	330	970	16:10	4	0.914	A BB	45939.	120.000 UG/L	1.37
12	244	1291	21:31	5	0.905	A VB	268156.	120.000 UG/L	1.37
13	94	382	6:22	1	0.932	A BB	223046.	120.000 UG/L	1.37
14	93	384	6:24	1	0.937	A BB	157357.	120.000 UG/L	1.37
15	128	381	6:21	1	0.929	A BB	174986.	120.000 UG/L	1.37
16	146	403	6:43	1	0.983	A BV	173966.	120.000 UG/L	1.37
17	146	413	6:53	1	1.007	A VB	179927.	120.000 UG/L	1.37
18	108	449	7:29	1	1.095	A BB	104625.	120.000 UG/L	1.37
19	146	443	7:23	1	1.080	A BB	170831.	120.000 UG/L	1.37
20	108	480	8:00	1	1.171	A BB	138011.	120.000 UG/L	1.37
21	45	477	7:57	1	1.163	A BB	167123.	120.000 UG/L	1.37
22	107	505	8:25	1	1.232	A BB	159514.	120.000 UG/L	1.37
23	130	501	8:21	1	1.222	A BB	31991.	120.000 UG/L	1.37
24	117	492	8:12	1	1.200	A BB	69298.	120.000 UG/L	1.37
25	77	511	8:31	2	0.838	A VV	144916.	120.000 UG/L	1.37
26	82	552	9:12	2	0.905	A BB	299056.	120.000 UG/L	1.37
27	139	560	9:20	2	0.918	A BB	100905.	120.000 UG/L	1.37
28	122	582	9:42	2	0.954	A BB	129742.	120.000 UG/L	1.37
29	93	594	9:54	2	0.974	A VB	196185.	120.000 UG/L	1.37
30	162	599	9:59	2	0.982	A BB	127907.	120.000 UG/L	1.37
31	180	607	10:07	2	0.995	A BB	136118.	120.000 UG/L	1.37
32	128	613	10:13	2	1.005	A BB	397094.	120.000 UG/L	1.37
33	127	631	10:31	2	1.034	A BB	135949.	120.000 UG/L	1.37
34	225	647	10:47	2	1.061	A BB	72605.	120.000 UG/L	1.37
35	107	711	11:51	2	1.166	A BB	125668.	120.000 UG/L	1.37
36	141	714	11:54	2	1.170	A BV	246554.	120.000 UG/L	1.37
37	237	749	12:29	3	0.871	A BB	82826.	120.000 UG/L	1.37
38	196	762	12:42	3	0.886	A BV	116764.	120.000 UG/L	1.37
39	196	767	12:47	3	0.892	A VB	62434.	120.000 UG/L	1.37
40	162	781	13:01	3	0.908	A BB	275615.	120.000 UG/L	1.37
41	138	805	13:25	3	0.936	A BB	112052.	120.000 UG/L	1.37
42	163	843	14:03	3	0.980	A BB	254636.	120.000 UG/L	1.37
43	152	838	13:58	3	0.974	A BB	386698.	120.000 UG/L	1.37
44	138	864	14:24	3	1.005	A BB	59151.	120.000 UG/L	1.37
45	154	865	14:25	3	1.006	A BV	255738.	120.000 UG/L	1.37
46	184	878	14:38	3	1.021	A BV	47837.	120.000 UG/L	1.37
47	109	899	14:59	3	1.045	A BB	25612.	120.000 UG/L	1.37
48	168	887	14:47	3	1.031	A BB	376186.	120.000 UG/L	1.37
49	165	900	15:00	3	1.047	A BB	79222.	120.000 UG/L	1.37
50	165	847	14:07	3	0.985	A BV	71210.	120.000 UG/L	1.37

Case 7770 C5080587A 5 Std 120

004699

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:14	0.94	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:17	0.99	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:53	0.81	0.537	0.85	120.00	120.00	1.356	1.356	1.00
8	6:50	0.93	0.945	0.98	120.00	120.00	2.500	2.500	1.00
9	8:41	0.98	0.844	0.99	120.00	120.00	0.417	0.417	1.00
10	12:55	1.00	0.901	1.00	120.00	120.00	1.282	1.282	1.00
11	16:10	1.00	0.915	1.00	120.00	120.00	0.137	0.137	1.00
12	21:30	1.00	0.904	1.00	120.00	120.00	0.823	0.823	1.00
13	6:52	0.93	0.949	0.98	120.00	120.00	1.964	1.964	1.00
14	6:51	0.93	0.947	0.99	120.00	120.00	1.385	1.385	1.00
15	6:50	0.93	0.945	0.98	120.00	120.00	1.541	1.541	1.00
16	7:08	0.94	0.986	1.00	120.00	120.00	1.532	1.532	1.00
17	7:16	0.95	1.005	1.00	120.00	120.00	1.584	1.584	1.00
18	7:48	0.96	1.078	1.02	120.00	120.00	0.921	0.921	1.00
19	7:42	0.96	1.065	1.02	120.00	120.00	1.504	1.504	1.00
20	8:15	0.97	1.141	1.03	120.00	120.00	1.215	1.215	1.00
21	8:12	0.97	1.134	1.03	120.00	120.00	1.471	1.471	1.00
22	8:38	0.97	1.194	1.03	120.00	120.00	1.404	1.404	1.00
23	8:34	0.97	1.184	1.03	120.00	120.00	0.282	0.282	1.00
24	8:26	0.97	1.166	1.03	120.00	120.00	0.610	0.610	1.00
25	8:44	0.98	0.849	0.99	120.00	120.00	0.367	0.367	1.00
26	9:22	0.98	0.911	0.99	120.00	120.00	0.758	0.758	1.00
27	9:28	0.99	0.921	1.00	120.00	120.00	0.256	0.256	1.00
28	9:49	0.99	0.955	1.00	120.00	120.00	0.329	0.329	1.00
29	10:00	0.99	0.972	1.00	120.00	120.00	0.497	0.497	1.00
30	10:05	0.99	0.981	1.00	120.00	120.00	0.324	0.324	1.00
31	10:13	0.99	0.994	1.00	120.00	120.00	0.345	0.345	1.00
32	10:19	0.99	1.003	1.00	120.00	120.00	1.007	1.007	1.00
33	10:35	0.99	1.029	1.01	120.00	120.00	0.345	0.345	1.00
34	10:51	0.99	1.055	1.01	120.00	120.00	0.184	0.184	1.00
35	11:53	1.00	1.156	1.01	120.00	120.00	0.319	0.319	1.00
36	11:56	1.00	1.160	1.01	120.00	120.00	0.625	0.625	1.00
37	12:30	1.00	0.872	1.00	120.00	120.00	0.371	0.371	1.00
38	12:43	1.00	0.887	1.00	120.00	120.00	0.522	0.522	1.00
39	12:48	1.00	0.893	1.00	120.00	120.00	0.279	0.279	1.00
40	13:02	1.00	0.909	1.00	120.00	120.00	1.233	1.233	1.00
41	13:25	1.00	0.936	1.00	120.00	120.00	0.501	0.501	1.00
42	14:02	1.00	0.979	1.00	120.00	120.00	1.139	1.139	1.00
43	13:58	1.00	0.974	1.00	120.00	120.00	1.730	1.730	1.00
44	14:24	1.00	1.005	1.00	120.00	120.00	0.265	0.265	1.00
45	14:25	1.00	1.006	1.00	120.00	120.00	1.144	1.144	1.00
46	14:38	1.00	1.021	1.00	120.00	120.00	0.214	0.214	1.00
47	14:58	1.00	1.044	1.00	120.00	120.00	0.115	0.115	1.00
48	14:48	1.00	1.033	1.00	120.00	120.00	1.683	1.683	1.00
49	15:00	1.00	1.047	1.00	120.00	120.00	0.354	0.354	1.00
50	14:08	1.00	0.986	1.00	120.00	120.00	0.319	0.319	1.00

SStd 180 Case 7770 C5080587D

004700

Quantitation Report File: CS080587D

Data: CS080587D.TI
08/05/87 13:54:00
Sample: SSTD120 120 PPM 865-69-SVP120 CASE: 7770
Conds.: 45/4/300212 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.000
Submitted by: EPA Analyst: GK Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
51	C580	DIETHYL PHTHALATE
52	C585	4-CHLOROPHENYL PHENYL ETHER
53	C590	FLUORENE
54	C595	4-NITROANILINE
55	C610	4,6-DINITRO-2-METHYLPHENOL
56	C615	DIPHENYLAMINE*
57	C625	4-BROMOPHENYL PHENYL ETHER
58	C630	HEXACHLOROBENZENE
59	C635	PENTACHLOROPHENOL*
60	C640	PHENANTHRENE
61	C645	ANTHRACENE
62	C650	DI-N-BUTYL PHTHALATE
63	C655	FLUORANTHENE*
64	C715	PYRENE
65	C720	BUTYL BENZYL PHTHALATE
66	C725	3,3'-DICHLOROBENZIDINE
67	C730	BENZO(A)ANTHRACENE
68	C735	BIS(2-ETHYLHEXYL)PHTHALATE
69	C740	CHRYSENE
70	C760	DINOCTYLPHTHALATE*
71	C775	BENZO(A)PYRENE*
72	C780	INDENO(1,2,3-CD)PYRENE
73	C785	DIBENZO(A,H)ANTHRACENE
74	C790	BENZO(G,H,I)PERYLENE
75	C430	BENZOIC ACID
76	C765	BENZO(B)FLUORANTHENE
77	C770	BENZO(K)FLUORANTHENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	149	943	15:43	3	1.097	A BB	223348.	120.000 UG/L	1.37
52	204	941	15:41	3	1.094	A BB	144737.	120.000 UG/L	1.37
53	166	935	15:35	3	1.087	A BB	274722.	120.000 UG/L	1.37
54	138	950	15:50	3	1.105	A VB	40609.	120.000 UG/L	1.37
55	198	956	15:56	4	0.901	A BB	53939.	120.000 UG/L	1.37
56	169	960	16:00	4	0.905	A BB	201917.	120.000 UG/L	1.37
57	248	1006	16:46	4	0.948	A BB	90616.	120.000 UG/L	1.37
58	284	1021	17:01	4	0.962	A BB	101897.	120.000 UG/L	1.37
59	266	1049	17:29	4	0.989	A BB	59089.	120.000 UG/L	1.37
60	178	1065	17:45	4	1.004	A BV	338641.	120.000 UG/L	1.37
61	178	1071	17:51	4	1.009	A VB	296703.	120.000 UG/L	1.37
62	149	1168	19:28	4	1.101	A VV	375718.	120.000 UG/L	1.37
63	202	1228	20:28	4	1.157	A BB	332084.	120.000 UG/L	1.37
64	202	1257	20:57	5	0.881	A BB	342181.	120.000 UG/L	1.37
65	149	1371	22:51	5	0.961	A VB	178319.	120.000 UG/L	1.37
66	252	1430	23:50	5	1.002	A VB	82448.	120.000 UG/L	1.37

004701

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	228	1425	23:45	5	0.999	A BV	365629.	120.000 UG/L	1.37
68	149	1461	24:21	5	1.024	A BB	256871.	120.000 UG/L	1.37
69	228	1431	23:51	5	1.003	A VB	355076.	120.000 UG/L	1.37
70	149	1546	25:46	6	0.942	A BB	413758.	120.000 UG/L	1.37
71	252	1632	27:12	6	0.995	A BB	303684.	120.000 UG/L	1.37
72	276	1909	31:49	6	1.163	A BV	284313.	120.000 UG/L	1.37
73	278	1924	32:04	6	1.172	A BB	268101.	120.000 UG/L	1.37
74	276	1990	33:10	6	1.213	A BB	258336.	120.000 UG/L	1.37
75	122	622	10:22	2	1.020	M XX	101602.	120.000 UG/L	1.37
76	252	1578	26:18	6	0.962	M XX	362498.	120.000 UG/L	1.37
77	252	1582	26:22	6	0.964	M XX	371065.	120.000 UG/L	1.37

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	15:42	1.00	1.095	1.00	120.00	120.00	0.999	0.999	1.00
52	15:41	1.00	1.094	1.00	120.00	120.00	0.647	0.647	1.00
53	15:34	1.00	1.086	1.00	120.00	120.00	1.229	1.229	1.00
54	15:50	1.00	1.105	1.00	120.00	120.00	0.182	0.182	1.00
55	15:56	1.00	0.902	1.00	120.00	120.00	0.161	0.161	1.00
56	16:00	1.00	0.906	1.00	120.00	120.00	0.602	0.602	1.00
57	16:46	1.00	0.949	1.00	120.00	120.00	0.270	0.270	1.00
58	17:01	1.00	0.963	1.00	120.00	120.00	0.304	0.304	1.00
59	17:28	1.00	0.989	1.00	120.00	120.00	0.176	0.176	1.00
60	17:44	1.00	1.004	1.00	120.00	120.00	1.010	1.010	1.00
61	17:50	1.00	1.009	1.00	120.00	120.00	0.885	0.885	1.00
62	19:27	1.00	1.101	1.00	120.00	120.00	1.120	1.120	1.00
63	20:27	1.00	1.158	1.00	120.00	120.00	0.990	0.990	1.00
64	20:56	1.00	0.880	1.00	120.00	120.00	1.050	1.050	1.00
65	22:50	1.00	0.960	1.00	120.00	120.00	0.547	0.547	1.00
66	23:49	1.00	1.001	1.00	120.00	120.00	0.253	0.253	1.00
67	23:45	1.00	0.999	1.00	120.00	120.00	1.122	1.122	1.00
68	24:20	1.00	1.023	1.00	120.00	120.00	0.788	0.788	1.00
69	23:51	1.00	1.003	1.00	120.00	120.00	1.089	1.089	1.00
70	25:45	1.00	0.942	1.00	120.00	120.00	1.806	1.806	1.00
71	27:12	1.00	0.995	1.00	120.00	120.00	1.325	1.325	1.00
72	31:52	1.00	1.166	1.00	120.00	120.00	1.241	1.241	1.00
73	32:07	1.00	1.175	1.00	120.00	120.00	1.170	1.170	1.00
74	33:14	1.00	1.216	1.00	120.00	120.00	1.127	1.127	1.00
75	10:29	0.99	1.019	1.00	120.00	120.00	0.258	0.258	1.00
76	26:19	1.00	0.963	1.00	120.00	120.00	1.582	1.582	1.00
77	26:22	1.00	0.965	1.00	120.00	120.00	1.619	1.619	1.00

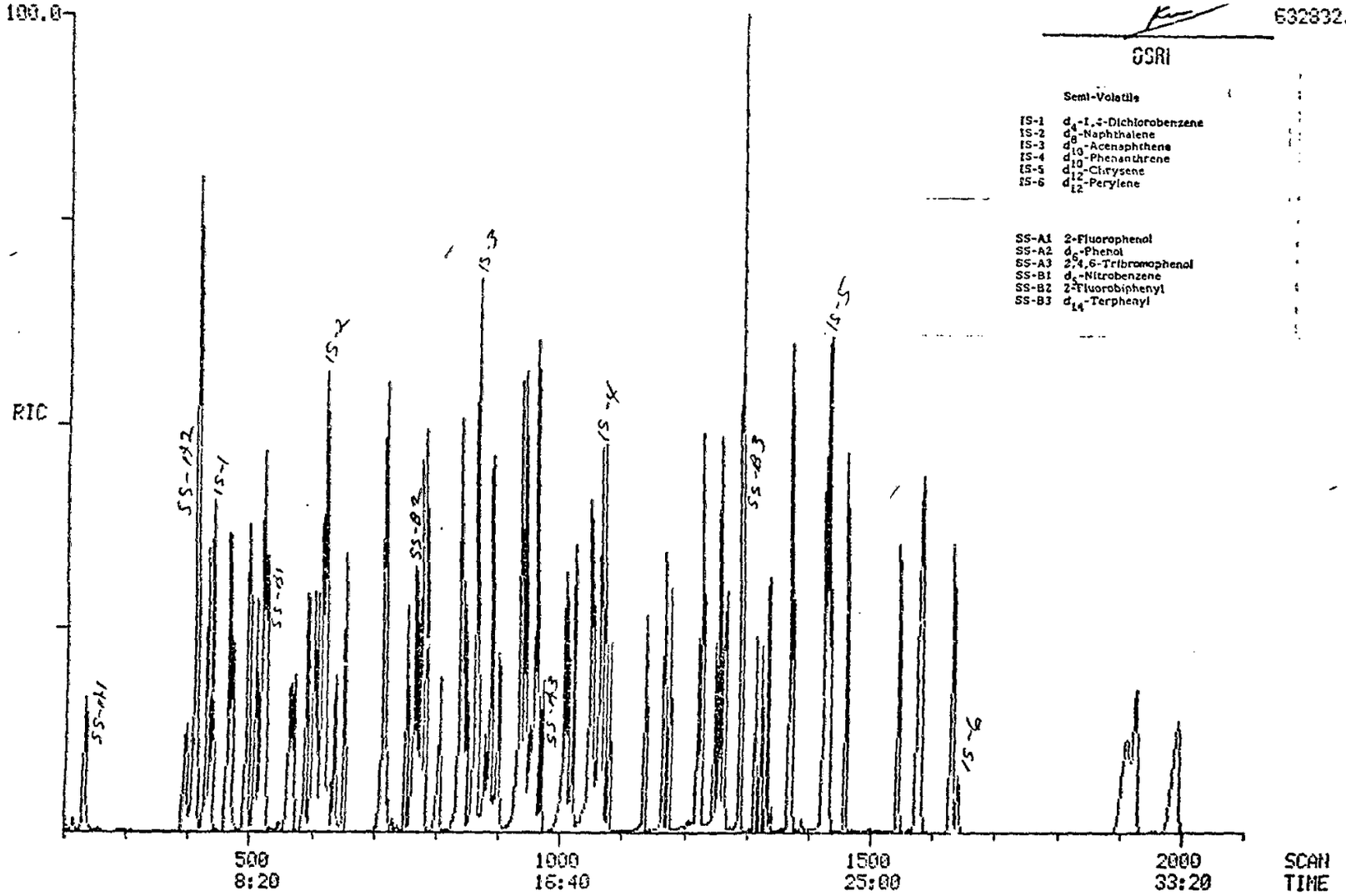
Case 7770 CS080587D SStd 180

004702

RIC
08/05/87 14:37:00
SAMPLE: SSDT160 160 PPM 865-69-SVP160 CASE: 7770
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CS080587E #1 SCANS 200 TO 2100
CALI: CS080587E #1

REVIEWED
AUG 06 1987
632832.
OSRI



Semi-Volatile

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 d_6-Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004703

Quantitation Report File: CS080587E

Data: CS080587E.TI
08/05/87 14:37:00
Sample: SSDT160 160 PPM 865-69-SVP160 CASE: 7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.000
Submitted by: EPA Analyst: GK Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)
13	C315	PHENOL*	
14	C325	BIS(2 CHLOROETHYL)ETHER	
15	C330	2-CHLOROPHENOL	
16	C335	1,3-DICHLOROBENZENE	
17	C340	14DICHLOROBENZENE*	
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	
20	C355	2-METHYLPHENOL	
21	C360	BIS(2-CHLOROISOPROPYL)ETHER	
22	C365	4-METHYLPHENOL	
23	C370	NITROSOPROPYLAMINE**	
24	C375	HEXACHLOROETHANE	
25	C410	NITROBENZENE	
26	C415	ISOPHORONE	
27	C420	2-NITROPHENOL*	
28	C425	2,4-DIMETHYLPHENOL	
29	C435	BIS(2-CHLOROETHOXY)METHANE	
30	C440	2,4-DICHLOROPHENOL*	
31	C445	1,2,4-TRICHLOROBENZENE	
32	C450	NAPHTHALENE	
33	C455	4-CHLOROANILINE	
34	C460	CL6BUTADIENE*	
35	C465	4CHLORO3METHYLPHENOL*	
36	C470	2-METHYLNAPTHALENE	
37	C510	CL6CYCLOPENTADIENE**	
38	C515	246TRICHLOROPHENOL*	
39	C520	2,4,5-TRICHLOROPHENOL	
40	C525	2-CHLORONAPHTHALENE	
41	C530	2-NITROANILINE	
42	C535	DIMETHYL PHTHALATE	
43	C540	ACENAPHTHYLENE	
44	C545	3-NITROANILINE	
45	C550	ACENAPTHENE*	
46	C555	24DINITROPHENOL**	
47	C560	4NITROPHENOL**	

004704

Case 7770 ~~18~~ 19 C50805 87E SStd 160

No	Name	
48	C565	DIBENZOFURAN
49	C570	2,4-DINITROTOLUENE
50	C575	2,6-DINITROTOLUENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	434	7:14	1	1.000	A BB	38256.	40.000 UG/L	0.34
2	136	617	10:17	2	1.000	A BB	128576.	40.000 UG/L	0.34
3	164	860	14:20	3	1.000	A BB	77305.	40.000 UG/L	0.34
4	188	1060	17:40	4	1.000	A BB	111916.	40.000 UG/L	0.34
5	240	1427	23:47	5	1.000	A BB	93142.	40.000 UG/L	0.34
6	264	1640	27:20	6	1.000	A BB	74017.	40.000 UG/L	0.34
7	112	233	3:53	1	0.537	A BB	183200.	160.000 UG/L	1.38
8	99	410	6:50	1	0.945	A BB	346102.	160.000 UG/L	1.38
9	82	521	8:41	2	0.844	A BB	194904.	160.000 UG/L	1.38
10	172	775	12:55	3	0.901	A BB	345158.	160.000 UG/L	1.38
11	330	970	16:10	4	0.915	A BB	61689.	160.000 UG/L	1.38
12	244	1290	21:30	5	0.904	A VB	317776.	160.000 UG/L	1.38
13	94	412	6:52	1	0.949	A BB	298287.	160.000 UG/L	1.38
14	93	411	6:51	1	0.947	A BB	221339.	160.000 UG/L	1.38
15	128	410	6:50	1	0.945	A BB	231434.	160.000 UG/L	1.38
16	146	428	7:08	1	0.986	A BV	233666.	160.000 UG/L	1.38
17	146	436	7:16	1	1.005	A VB	235418.	160.000 UG/L	1.38
18	108	468	7:48	1	1.078	A BB	139713.	160.000 UG/L	1.38
19	146	462	7:42	1	1.065	A BB	226695.	160.000 UG/L	1.38
20	108	495	8:15	1	1.141	A BB	184169.	160.000 UG/L	1.38
21	45	492	8:12	1	1.134	A BB	221119.	160.000 UG/L	1.38
22	107	518	8:38	1	1.194	A BB	217791.	160.000 UG/L	1.38
23	130	514	8:34	1	1.184	A BB	42079.	160.000 UG/L	1.38
24	117	506	8:26	1	1.166	A BB	88218.	160.000 UG/L	1.38
25	77	524	8:44	2	0.849	A BV	262409.	160.000 UG/L	1.38
26	82	562	9:22	2	0.911	A BB	380451.	160.000 UG/L	1.38
27	139	568	9:28	2	0.921	A BV	128328.	160.000 UG/L	1.38
28	122	589	9:49	2	0.955	A BB	176268.	160.000 UG/L	1.38
29	93	600	10:00	2	0.972	A VB	252782.	160.000 UG/L	1.38
30	162	605	10:05	2	0.981	A BV	166416.	160.000 UG/L	1.38
31	180	613	10:13	2	0.994	A BB	178073.	160.000 UG/L	1.38
32	128	619	10:19	2	1.003	A BB	458197.	160.000 UG/L	1.38
33	127	635	10:35	2	1.029	A BB	148831.	160.000 UG/L	1.38
34	225	651	10:51	2	1.055	A BB	92578.	160.000 UG/L	1.38
35	107	713	11:53	2	1.156	A BB	169130.	160.000 UG/L	1.38
36	141	716	11:56	2	1.160	A BV	314476.	160.000 UG/L	1.38
37	237	750	12:30	3	0.872	A BB	103214.	160.000 UG/L	1.38
38	196	763	12:43	3	0.887	A BV	160972.	160.000 UG/L	1.38
39	196	768	12:48	3	0.893	A VB	76384.	160.000 UG/L	1.38
40	162	782	13:02	3	0.909	A BB	351948.	160.000 UG/L	1.38
41	138	805	13:25	3	0.936	A BB	142522.	160.000 UG/L	1.38
42	163	842	14:02	3	0.979	A BB	350759.	160.000 UG/L	1.38
43	152	838	13:58	3	0.974	A BB	487296.	160.000 UG/L	1.38
44	138	864	14:24	3	1.005	A BB	77039.	160.000 UG/L	1.38
45	154	865	14:25	3	1.006	A BV	344287.	160.000 UG/L	1.38
46	184	878	14:38	3	1.021	A BV	63874.	160.000 UG/L	1.38
47	109	898	14:58	3	1.044	A VV	29584.	160.000 UG/L	1.38
48	168	888	14:48	3	1.033	A BB	461299.	160.000 UG/L	1.38
49	165	900	15:00	3	1.047	A BB	102352.	160.000 UG/L	1.38
50	165	848	14:08	3	0.986	A BV	102117.	160.000 UG/L	1.38

004705

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:14	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:53	1.00	0.537	1.00	160.00	160.00	1.197	1.197	1.00
8	6:50	1.00	0.945	1.00	160.00	160.00	2.262	2.262	1.00
9	8:41	1.00	0.844	1.00	160.00	160.00	0.379	0.379	1.00
10	12:55	1.00	0.901	1.00	160.00	160.00	1.116	1.116	1.00
11	16:10	1.00	0.915	1.00	160.00	160.00	0.138	0.138	1.00
12	21:30	1.00	0.904	1.00	160.00	160.00	0.853	0.853	1.00
13	6:52	1.00	0.949	1.00	160.00	160.00	1.949	1.949	1.00
14	6:51	1.00	0.947	1.00	160.00	160.00	1.446	1.446	1.00
15	6:50	1.00	0.945	1.00	160.00	160.00	1.512	1.512	1.00
16	7:08	1.00	0.986	1.00	160.00	160.00	1.527	1.527	1.00
17	7:16	1.00	1.005	1.00	160.00	160.00	1.538	1.538	1.00
18	7:48	1.00	1.078	1.00	160.00	160.00	0.913	0.913	1.00
19	7:42	1.00	1.065	1.00	160.00	160.00	1.481	1.481	1.00
20	8:15	1.00	1.141	1.00	160.00	160.00	1.204	1.204	1.00
21	8:12	1.00	1.134	1.00	160.00	160.00	1.445	1.445	1.00
22	8:38	1.00	1.194	1.00	160.00	160.00	1.423	1.423	1.00
23	8:34	1.00	1.184	1.00	160.00	160.00	0.275	0.275	1.00
24	8:26	1.00	1.166	1.00	160.00	160.00	0.576	0.576	1.00
25	8:44	1.00	0.849	1.00	160.00	160.00	0.510	0.510	1.00
26	9:22	1.00	0.911	1.00	160.00	160.00	0.740	0.740	1.00
27	9:28	1.00	0.921	1.00	160.00	160.00	0.250	0.250	1.00
28	9:49	1.00	0.955	1.00	160.00	160.00	0.343	0.343	1.00
29	10:00	1.00	0.972	1.00	160.00	160.00	0.492	0.492	1.00
30	10:05	1.00	0.981	1.00	160.00	160.00	0.324	0.324	1.00
31	10:13	1.00	0.994	1.00	160.00	160.00	0.346	0.346	1.00
32	10:19	1.00	1.003	1.00	160.00	160.00	0.891	0.891	1.00
33	10:35	1.00	1.029	1.00	160.00	160.00	0.289	0.289	1.00
34	10:51	1.00	1.055	1.00	160.00	160.00	0.180	0.180	1.00
35	11:53	1.00	1.156	1.00	160.00	160.00	0.329	0.329	1.00
36	11:56	1.00	1.160	1.00	160.00	160.00	0.611	0.611	1.00
37	12:30	1.00	0.872	1.00	160.00	160.00	0.334	0.334	1.00
38	12:43	1.00	0.887	1.00	160.00	160.00	0.521	0.521	1.00
39	12:48	1.00	0.893	1.00	160.00	160.00	0.247	0.247	1.00
40	13:02	1.00	0.909	1.00	160.00	160.00	1.138	1.138	1.00
41	13:25	1.00	0.936	1.00	160.00	160.00	0.461	0.461	1.00
42	14:02	1.00	0.979	1.00	160.00	160.00	1.134	1.134	1.00
43	13:58	1.00	0.974	1.00	160.00	160.00	1.576	1.576	1.00
44	14:24	1.00	1.005	1.00	160.00	160.00	0.249	0.249	1.00
45	14:25	1.00	1.006	1.00	160.00	160.00	1.113	1.113	1.00
46	14:38	1.00	1.021	1.00	160.00	160.00	0.207	0.207	1.00
47	14:58	1.00	1.044	1.00	160.00	160.00	0.096	0.096	1.00
48	14:48	1.00	1.033	1.00	160.00	160.00	1.492	1.492	1.00
49	15:00	1.00	1.047	1.00	160.00	160.00	0.331	0.331	1.00
50	14:08	1.00	0.986	1.00	160.00	160.00	0.330	0.330	1.00

C 50805876 std 160

004706

Quantitation Report File: CS080587E

Data: CS080587E.TI
08/05/87 14:37:00
Sample: SSDT160 160 PPM 865-69-SVP160 CASE: 7770
Bonds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.000
Submitted by: EPA Analyst: GK Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
51	C580	DIETHYL PHTHALATE
52	C585	4-CHLOROPHENYL PHENYL ETHER
53	C590	FLUORENE
54	C595	4-NITROANILINE
55	C610	4,6-DINITRO-2-METHYLPHENOL
56	C615	DIPHENYLAMINE*
57	C625	4-BROMOPHENYL PHENYL ETHER
58	C630	HEXACHLOROBENZENE
59	C635	PENTACHLOROPHENOL*
60	C640	PHENANTHRENE
61	C645	ANTHRACENE
62	C650	DI-N-BUTYL PHTHALATE
63	C655	FLUORANTHENE*
64	C715	PYRENE
65	C720	BUTYL BENZYL PHTHALATE
66	C725	3,3'-DICHLOROBENZIDINE
67	C730	BENZO(A)ANTHRACENE
68	C735	BIS(2-ETHYLHEXYL)PHTHALATE
69	C740	CHRYSENE
70	C760	DINOCTYLPHTHALATE*
71	C775	BENZO(A)PYRENE*
72	C780	INDENO(1,2,3-CD)PYRENE
73	C785	DIBENZO(A,H)ANTHRACENE
74	C790	BENZO(G,H,I)PERYLENE
75	C430	BENZOIC ACID
76	C765	BENZO(B)FLUORANTHENE
77	C770	BENZO(K)FLUORANTHENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	149	942	15:42	3	1.095	A VB	263079.	160.000 UG/L	1.38
52	204	941	15:41	3	1.094	A BB	188462.	160.000 UG/L	1.38
53	166	934	15:34	3	1.086	A BB	375277.	160.000 UG/L	1.38
54	138	950	15:50	3	1.105	A VB	45013.	160.000 UG/L	1.38
55	198	956	15:56	4	0.902	A BB	67413.	160.000 UG/L	1.38
56	169	960	16:00	4	0.906	A BB	273803.	160.000 UG/L	1.38
57	248	1006	16:46	4	0.949	A BB	124237.	160.000 UG/L	1.38
58	284	1021	17:01	4	0.963	A BB	131116.	160.000 UG/L	1.39
59	266	1048	17:28	4	0.989	A VV	71166.	160.000 UG/L	1.38
60	178	1064	17:44	4	1.004	A BV	473297.	160.000 UG/L	1.38
61	178	1070	17:50	4	1.009	A VB	351899.	160.000 UG/L	1.38
62	149	1167	19:27	4	1.101	A BB	446261.	160.000 UG/L	1.38
63	202	1227	20:27	4	1.158	A VB	372514.	160.000 UG/L	1.38
64	202	1256	20:56	5	0.880	A VB	403057.	160.000 UG/L	1.38
65	149	1370	22:50	5	0.960	A VB	200811.	160.000 UG/L	1.38
66	252	1429	23:49	5	1.001	A VV	83289.	160.000 UG/L	1.38

004707

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	228	1425	23:45	5	0.999	A BV	406387.	160.000	UG/L	1.38
68	149	1460	24:20	5	1.023	A BB	286782.	160.000	UG/L	1.38
69	228	1431	23:51	5	1.003	A VB	387111.	160.000	UG/L	1.38
70	149	1545	25:45	6	0.942	A VB	472791.	160.000	UG/L	1.38
71	252	1632	27:12	6	0.995	A BB	372943.	160.000	UG/L	1.38
72	276	1912	31:52	6	1.166	A BV	363260.	160.000	UG/L	1.38
73	278	1927	32:07	6	1.175	A BB	356676.	160.000	UG/L	1.38
74	276	1994	33:14	6	1.216	A BB	342022.	160.000	UG/L	1.38
75	122	629	10:29	2	1.019	M XX	131997.	160.000	UG/L	1.38
76	252	1579	26:19	6	0.963	M XX	459176.	160.000	UG/L	1.38
77	252	1582	26:22	6	0.965	M XX	430171.	160.000	UG/L	1.38

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	15:42	1.00	1.095	1.00	160.00	160.00	0.851	0.851	1.00
52	15:41	1.00	1.094	1.00	160.00	160.00	0.609	0.609	1.00
53	15:34	1.00	1.086	1.00	160.00	160.00	1.214	1.214	1.00
54	15:50	1.00	1.105	1.00	160.00	160.00	0.146	0.146	1.00
55	15:56	1.00	0.902	1.00	160.00	160.00	0.151	0.151	1.00
56	16:00	1.00	0.906	1.00	160.00	160.00	0.612	0.612	1.00
57	16:46	1.00	0.949	1.00	160.00	160.00	0.278	0.278	1.00
58	17:01	1.00	0.963	1.00	160.00	160.00	0.293	0.293	1.00
59	17:28	1.00	0.989	1.00	160.00	160.00	0.159	0.159	1.00
60	17:44	1.00	1.004	1.00	160.00	160.00	1.057	1.057	1.00
61	17:50	1.00	1.009	1.00	160.00	160.00	0.786	0.786	1.00
62	19:27	1.00	1.101	1.00	160.00	160.00	0.997	0.997	1.00
63	20:27	1.00	1.156	1.00	160.00	160.00	0.832	0.832	1.00
64	20:56	1.00	0.880	1.00	160.00	160.00	1.082	1.082	1.00
65	22:50	1.00	0.960	1.00	160.00	160.00	0.539	0.539	1.00
66	23:49	1.00	1.001	1.00	160.00	160.00	0.224	0.224	1.00
67	23:45	1.00	0.999	1.00	160.00	160.00	1.091	1.091	1.00
68	24:20	1.00	1.023	1.00	160.00	160.00	0.770	0.770	1.00
69	23:51	1.00	1.003	1.00	160.00	160.00	1.039	1.039	1.00
70	25:45	1.00	0.942	1.00	160.00	160.00	1.597	1.597	1.00
71	27:12	1.00	0.995	1.00	160.00	160.00	1.260	1.260	1.00
72	31:52	1.00	1.166	1.00	160.00	160.00	1.227	1.227	1.00
73	32:07	1.00	1.175	1.00	160.00	160.00	1.205	1.205	1.00
74	33:14	1.00	1.216	1.00	160.00	160.00	1.155	1.155	1.00
75	10:29	1.00	1.019	1.00	160.00	160.00	0.257	0.257	1.00
76	26:19	1.00	0.963	1.00	160.00	160.00	1.551	1.551	1.00
77	26:22	1.00	0.965	1.00	160.00	160.00	1.453	1.453	1.00

C5080587E Case 7770

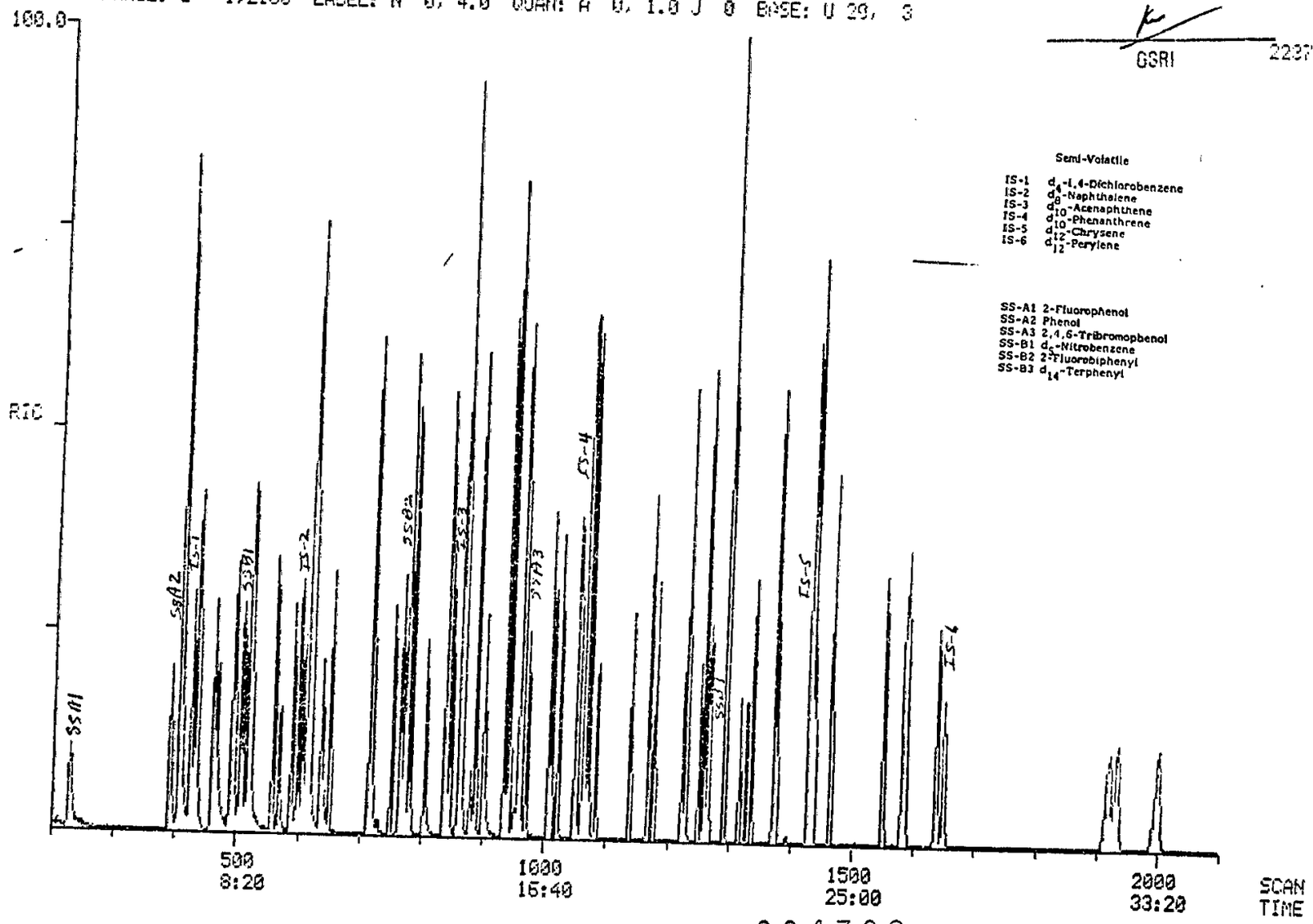
004708

RIC
08/14/87 14:27:00
SAMPLE: SSTD50 865-69-SVP50 CASE: 2770/2714
CONDS.: 45/4/300012 DB-5 FSCC 1NIGROM 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CS081487A #1
CALI: CS081487A #1

SCANS 200 TO 2100

REVIEWED
AUG 18 1987
GSRI
223744.



Semi-Volatile

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004709

Quantitation Report File: CS081487A

Data: CS081487A.TI
08/14/87 14:27:00
Sample: SSTD50 865-69-SVP50 CASE: 7770/7714
Bonds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.007
Submitted by: EPA Analyst: SA Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)
13	C315	PHENOL*	
14	C325	BIS(2 CHLOROETHYL)ETHER	
15	C330	2-CHLOROPHENOL	
16	C335	1,3-DICHLOROBENZENE	
17	C340	14DICHLOROBENZENE*	
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	
20	C355	2-METHYLPHENOL	
21	C360	BIS(2-CHLOROISOPROPYL)ETHER	
22	C365	4-METHYLPHENOL	
23	C370	NITROSOPROPYLAMINE**	
24	C375	HEXACHLOROETHANE	
25	C410	NITROBENZENE	
26	C415	ISOPHORONE	
27	C420	2-NITROPHENOL*	
28	C425	2,4-DIMETHYLPHENOL	
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	
31	C440	2,4-DICHLOROPHENOL*	
32	C445	1,2,4-TRICHLOROBENZENE	
33	C450	NAPHTHALENE	
34	C455	4-CHLOROANILINE	
35	C460	CL6BUTADIENE*	
36	C465	4CHLORO3METHYLPHENOL*	
37	C470	2-METHYLNAPTHALENE	
38	C510	CL6CYCLOPENTADIENE**	
39	C515	246TRICHLOROPHENOL*	
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	
44	C540	ACENAPHTHYLENE	
45	C545	3-NITROANILINE	
46	C550	ACENAPTHENE*	
47	C555	24DINITROPHENOL**	

004710

No	Name	
48	C560	4NITROPHENOL**
49	C565	DIBENZOFURAN
50	C570	2,4-DINITROTOLUENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	432	7:12	1	1.000	A BB	41212.	40.000 UG/L	1.06
2	136	616	10:16	2	1.000	A BB	149835.	40.000 UG/L	1.06
3	164	861	14:21	3	1.000	A BB	88363.	40.000 UG/L	1.06
4	188	1062	17:42	4	1.000	A BB	142444.	40.000 UG/L	1.06
5	240	1431	23:51	5	1.000	A BB	102567.	40.000 UG/L	1.06
6	264	1649	27:29	6	1.000	A BB	68840.	40.000 UG/L	1.06
7	112	229	3:49	1	0.530	A BB	51322.	50.000 UG/L	1.32
8	99	407	6:47	1	0.942	A BB	120897.	50.000 UG/L	1.32
9	82	519	8:39	2	0.843	A BB	77143.	50.000 UG/L	1.32
10	172	775	12:55	3	0.900	A BB	130231.	50.000 UG/L	1.32
11	330	972	16:12	4	0.915	A BB	21516.	50.000 UG/L	1.32
12	244	1293	21:33	5	0.904	A BB	112337.	50.000 UG/L	1.32
13	94	408	6:48	1	0.944	A BB	89940.	50.000 UG/L	1.32
14	93	408	6:48	1	0.944	A VB	69464.	50.000 UG/L	1.32
15	128	408	6:48	1	0.944	A BB	70820.	50.000 UG/L	1.32
16	146	425	7:05	1	0.984	A BV	71327.	50.000 UG/L	1.32
17	146	434	7:14	1	1.005	A VB	75214.	50.000 UG/L	1.32
18	108	466	7:46	1	1.079	A BB	40172.	50.000 UG/L	1.32
19	146	461	7:41	1	1.067	A BB	75351.	50.000 UG/L	1.32
20	108	494	8:14	1	1.144	A BB	59023.	50.000 UG/L	1.32
21	45	491	8:11	1	1.137	A BB	82710.	50.000 UG/L	1.32
22	107	515	8:36	1	1.194	A BB	64532.	50.000 UG/L	1.32
23	130	510	8:30	1	1.181	A BB	12833.	50.000 UG/L	1.32
24	117	505	8:25	1	1.169	A BB	30641.	50.000 UG/L	1.32
25	77	521	8:41	2	0.846	A BB	88844.	50.000 UG/L	1.32
26	82	558	9:18	2	0.906	A BB	134082.	50.000 UG/L	1.32
27	139	568	9:28	2	0.922	A BB	42391.	50.000 UG/L	1.32
28	122	588	9:48	2	0.955	A BB	55074.	50.000 UG/L	1.32
29	122	620	10:20	2	1.006	A BB	26620.	50.000 UG/L	1.32
30	93	599	9:59	2	0.972	A BV	87581.	50.000 UG/L	1.32
31	162	605	10:05	2	0.982	A BB	51641.	50.000 UG/L	1.32
32	180	613	10:13	2	0.995	A BB	59460.	50.000 UG/L	1.32
33	128	618	10:18	2	1.003	A BB	194598.	50.000 UG/L	1.32
34	127	636	10:36	2	1.032	A BB	76974.	50.000 UG/L	1.32
35	225	651	10:51	2	1.057	A BB	29397.	50.000 UG/L	1.32
36	107	714	11:54	2	1.159	A BB	58145.	50.000 UG/L	1.32
37	141	717	11:57	2	1.164	A BV	106369.	50.000 UG/L	1.32
38	237	751	12:31	3	0.872	A BB	31717.	50.000 UG/L	1.32
39	196	764	12:44	3	0.887	A BV	36678.	50.000 UG/L	1.32
40	196	770	12:50	3	0.894	A VB	45287.	50.000 UG/L	1.32
41	162	782	13:02	3	0.908	A BB	119640.	50.000 UG/L	1.32
42	138	806	13:26	3	0.936	A BB	51240.	50.000 UG/L	1.32
43	163	842	14:02	3	0.978	A BB	123307.	50.000 UG/L	1.32
44	152	839	13:59	3	0.974	A BB	181813.	50.000 UG/L	1.32
45	138	864	14:24	3	1.003	A BV	34141.	50.000 UG/L	1.32
46	154	865	14:25	3	1.005	A BB	115081.	50.000 UG/L	1.32
47	184	880	14:40	3	1.022	A BB	17100.	50.000 UG/L	1.32
48	109	902	15:02	3	1.048	A BB	9532.	50.000 UG/L	1.32
49	168	888	14:48	3	1.031	A BB	167891.	50.000 UG/L	1.32
50	165	901	15:01	3	1.046	A BB	37164.	50.000 UG/L	1.32

CS081487A Case 7770

004711

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:12	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:16	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:29	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:49	1.00	0.530	1.00	50.00	50.00	0.996	0.996	1.00
8	6:47	1.00	0.942	1.00	50.00	50.00	2.347	2.347	1.00
9	8:39	1.00	0.843	1.00	50.00	50.00	0.412	0.412	1.00
10	12:55	1.00	0.900	1.00	50.00	50.00	1.179	1.179	1.00
11	16:12	1.00	0.915	1.00	50.00	50.00	0.121	0.121	1.00
12	21:33	1.00	0.904	1.00	50.00	50.00	0.876	0.876	1.00
13	6:48	1.00	0.944	1.00	50.00	50.00	1.746	1.746	1.00
14	6:48	1.00	0.944	1.00	50.00	50.00	1.348	1.348	1.00
15	6:48	1.00	0.944	1.00	50.00	50.00	1.375	1.375	1.00
16	7:05	1.00	0.984	1.00	50.00	50.00	1.385	1.385	1.00
17	7:14	1.00	1.005	1.00	50.00	50.00	1.460	1.460	1.00
18	7:46	1.00	1.079	1.00	50.00	50.00	0.780	0.780	1.00
19	7:41	1.00	1.067	1.00	50.00	50.00	1.463	1.463	1.00
20	8:14	1.00	1.144	1.00	50.00	50.00	1.146	1.146	1.00
21	8:11	1.00	1.137	1.00	50.00	50.00	1.606	1.606	1.00
22	8:36	1.00	1.194	1.00	50.00	50.00	1.253	1.253	1.00
23	8:30	1.00	1.181	1.00	50.00	50.00	0.249	0.249	1.00
24	8:25	1.00	1.169	1.00	50.00	50.00	0.595	0.595	1.00
25	8:41	1.00	0.846	1.00	50.00	50.00	0.474	0.474	1.00
26	9:18	1.00	0.906	1.00	50.00	50.00	0.716	0.716	1.00
27	9:29	1.00	0.922	1.00	50.00	50.00	0.226	0.226	1.00
28	9:48	1.00	0.955	1.00	50.00	50.00	0.294	0.294	1.00
29	10:20	1.00	1.006	1.00	50.00	50.00	0.142	0.142	1.00
30	9:59	1.00	0.972	1.00	50.00	50.00	0.468	0.468	1.00
31	10:05	1.00	0.982	1.00	50.00	50.00	0.276	0.276	1.00
32	10:13	1.00	0.995	1.00	50.00	50.00	0.317	0.317	1.00
33	10:18	1.00	1.003	1.00	50.00	50.00	1.039	1.039	1.00
34	10:36	1.00	1.032	1.00	50.00	50.00	0.411	0.411	1.00
35	10:51	1.00	1.057	1.00	50.00	50.00	0.157	0.157	1.00
36	11:54	1.00	1.159	1.00	50.00	50.00	0.310	0.310	1.00
37	11:57	1.00	1.164	1.00	50.00	50.00	0.568	0.568	1.00
38	12:31	1.00	0.872	1.00	50.00	50.00	0.287	0.287	1.00
39	12:44	1.00	0.887	1.00	50.00	50.00	0.332	0.332	1.00
40	12:50	1.00	0.894	1.00	50.00	50.00	0.410	0.410	1.00
41	13:02	1.00	0.908	1.00	50.00	50.00	1.083	1.083	1.00
42	13:26	1.00	0.936	1.00	50.00	50.00	0.464	0.464	1.00
43	14:02	1.00	0.978	1.00	50.00	50.00	1.116	1.116	1.00
44	13:59	1.00	0.974	1.00	50.00	50.00	1.646	1.646	1.00
45	14:24	1.00	1.003	1.00	50.00	50.00	0.309	0.309	1.00
46	14:25	1.00	1.005	1.00	50.00	50.00	1.042	1.042	1.00
47	14:40	1.00	1.022	1.00	50.00	50.00	0.155	0.155	1.00
48	15:02	1.00	1.048	1.00	50.00	50.00	0.086	0.086	1.00
49	14:48	1.00	1.031	1.00	50.00	50.00	1.520	1.520	1.00
50	15:01	1.00	1.046	1.00	50.00	50.00	0.336	0.336	1.00

CS081487A Case 7770

004712

Quantitation Report File: CS081487A

ata: CS081487A.TI
08/14/87 14:27:00
Sample: SSTD50 865-69-SVP50 CASE: 7770/7714
onds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
ormula: Instrument: C Weight: 0.007
Submitted by: EPA Analyst: SA Acct. No.: 62003020

MOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
51	C575	2,6-DINITROTOLUENE
52	C580	DIETHYL PHTHALATE
53	C585	4-CHLOROPHENYL PHENYL ETHER
54	C590	FLUORENE
55	C595	4-NITROANILINE
56	C610	4,6-DINITRO-2-METHYLPHENOL
57	C615	DIPHENYLAMINE*
58	C625	4-BROMOPHENYL PHENYL ETHER
59	C630	HEXACHLOROBENZENE
60	C635	PENTACHLOROPHENOL*
61	C640	PHENANTHRENE
62	C650	DI-N-BUTYL PHTHALATE
63	C655	FLUORANTHENE*
64	C715	PYRENE
65	C720	BUTYL BENZYL PHTHALATE
66	C725	3,3'-DICHLOROBENZIDINE
67	C730	BENZO(A)ANTHRACENE
68	C735	BIS(2-ETHYLHEXYL)PHTHALATE
69	C760	DINOCTYLPHTHALATE*
70	C775	BENZO(A)PYRENE*
71	C780	INDENO(1,2,3-CD)PYRENE
72	C785	DIBENZO(A,H)ANTHRACENE
73	C790	BENZO(G,H,I)PERYLENE
74	C645	ANTHRACENE
75	C740	CHRYSENE
76	C765	BENZO(B)FLUORANTHENE
77	C770	BENZO(K)FLUORANTHENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	848	14:08	3	0.935	A VB	33191.	50.000 UG/L	1.32
52	149	942	15:42	3	1.094	A BB	116567.	50.000 UG/L	1.32
53	204	942	15:42	3	1.094	A BB	61321.	50.000 UG/L	1.32
54	166	935	15:35	3	1.086	A BB	126345.	50.000 UG/L	1.32
55	138	949	15:49	3	1.102	A BV	16328.	50.000 UG/L	1.32
56	198	957	15:57	4	0.901	A BB	24479.	50.000 UG/L	1.32
57	169	961	16:01	4	0.905	A BB	101438.	50.000 UG/L	1.32
58	248	1008	16:48	4	0.949	A BB	41507.	50.000 UG/L	1.32
59	284	1023	17:03	4	0.963	A BB	41473.	50.000 UG/L	1.32
60	266	1051	17:31	4	0.990	A BB	22251.	50.000 UG/L	1.32
61	178	1066	17:46	4	1.004	A BV	169631.	50.000 UG/L	1.32
62	149	1169	19:29	4	1.101	A BV	192596.	50.000 UG/L	1.32
63	202	1220	20:30	4	1.158	A BV	161587.	50.000 UG/L	1.32
64	202	1259	20:59	5	0.880	A BB	163194.	50.000 UG/L	1.32
65	149	1374	22:54	5	0.960	A BB	69768.	50.000 UG/L	1.32
66	252	1434	23:54	5	1.002	A BB	28653.	50.000 UG/L	1.32

004713

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	228	1429	23:49	5	0.999	A BV	138339.	50.000 UG/L	1.32
68	149	1465	24:25	5	1.024	A BB	94367.	50.000 UG/L	1.32
69	149	1551	25:51	6	0.941	A BB	152266.	50.000 UG/L	1.32
70	252	1638	27:18	6	0.993	A BB	108105.	50.000 UG/L	1.32
71	276	1921	32:01	6	1.165	A BV	95945.	50.000 UG/L	1.32
72	278	1933	32:13	6	1.172	A BB	98900.	50.000 UG/L	1.32
73	276	1998	33:18	6	1.212	A BB	95215.	50.000 UG/L	1.32
74	178	1072	17:52	4	1.009	M XX	185086.	50.000 UG/L	1.32
75	228	1434	23:54	5	1.002	M XX	129448.	50.000 UG/L	1.32
76	252	1583	26:23	5	1.106	M XX	117232.	50.000 UG/L	1.32
77	252	1586	26:26	5	1.108	M XX	138202.	50.000 UG/L	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	14:08	1.00	0.985	1.00	50.00	50.00	0.300	0.300	1.00
52	15:42	1.00	1.094	1.00	50.00	50.00	1.055	1.055	1.00
53	15:42	1.00	1.094	1.00	50.00	50.00	0.555	0.555	1.00
54	15:35	1.00	1.086	1.00	50.00	50.00	1.144	1.144	1.00
55	15:49	1.00	1.102	1.00	50.00	50.00	0.148	0.148	1.00
56	15:57	1.00	0.901	1.00	50.00	50.00	0.137	0.137	1.00
57	16:01	1.00	0.905	1.00	50.00	50.00	0.570	0.570	1.00
58	16:48	1.00	0.949	1.00	50.00	50.00	0.233	0.233	1.00
59	17:03	1.00	0.963	1.00	50.00	50.00	0.233	0.233	1.00
60	17:31	1.00	0.990	1.00	50.00	50.00	0.125	0.125	1.00
61	17:46	1.00	1.004	1.00	50.00	50.00	0.953	0.953	1.00
62	19:29	1.00	1.101	1.00	50.00	50.00	1.082	1.082	1.00
63	20:30	1.00	1.158	1.00	50.00	50.00	0.908	0.908	1.00
64	20:59	1.00	0.880	1.00	50.00	50.00	1.273	1.273	1.00
65	22:54	1.00	0.960	1.00	50.00	50.00	0.544	0.544	1.00
66	23:54	1.00	1.002	1.00	50.00	50.00	0.223	0.223	1.00
67	23:49	1.00	0.999	1.00	50.00	50.00	1.079	1.079	1.00
68	24:25	1.00	1.024	1.00	50.00	50.00	0.736	0.736	1.00
69	25:51	1.00	0.941	1.00	50.00	50.00	1.770	1.770	1.00
70	27:18	1.00	0.993	1.00	50.00	50.00	1.256	1.256	1.00
71	32:01	1.00	1.165	1.00	50.00	50.00	1.115	1.115	1.00
72	32:13	1.00	1.172	1.00	50.00	50.00	1.149	1.149	1.00
73	33:18	1.00	1.212	1.00	50.00	50.00	1.107	1.107	1.00
74	17:52	1.00	1.009	1.00	50.00	50.00	1.039	1.039	1.00
75	23:54	1.00	1.002	1.00	50.00	50.00	1.010	1.010	1.00
76	26:23	1.00	1.106	1.00	50.00	50.00	0.914	0.914	1.00
77	26:26	1.00	1.108	1.00	50.00	50.00	1.078	1.078	1.00

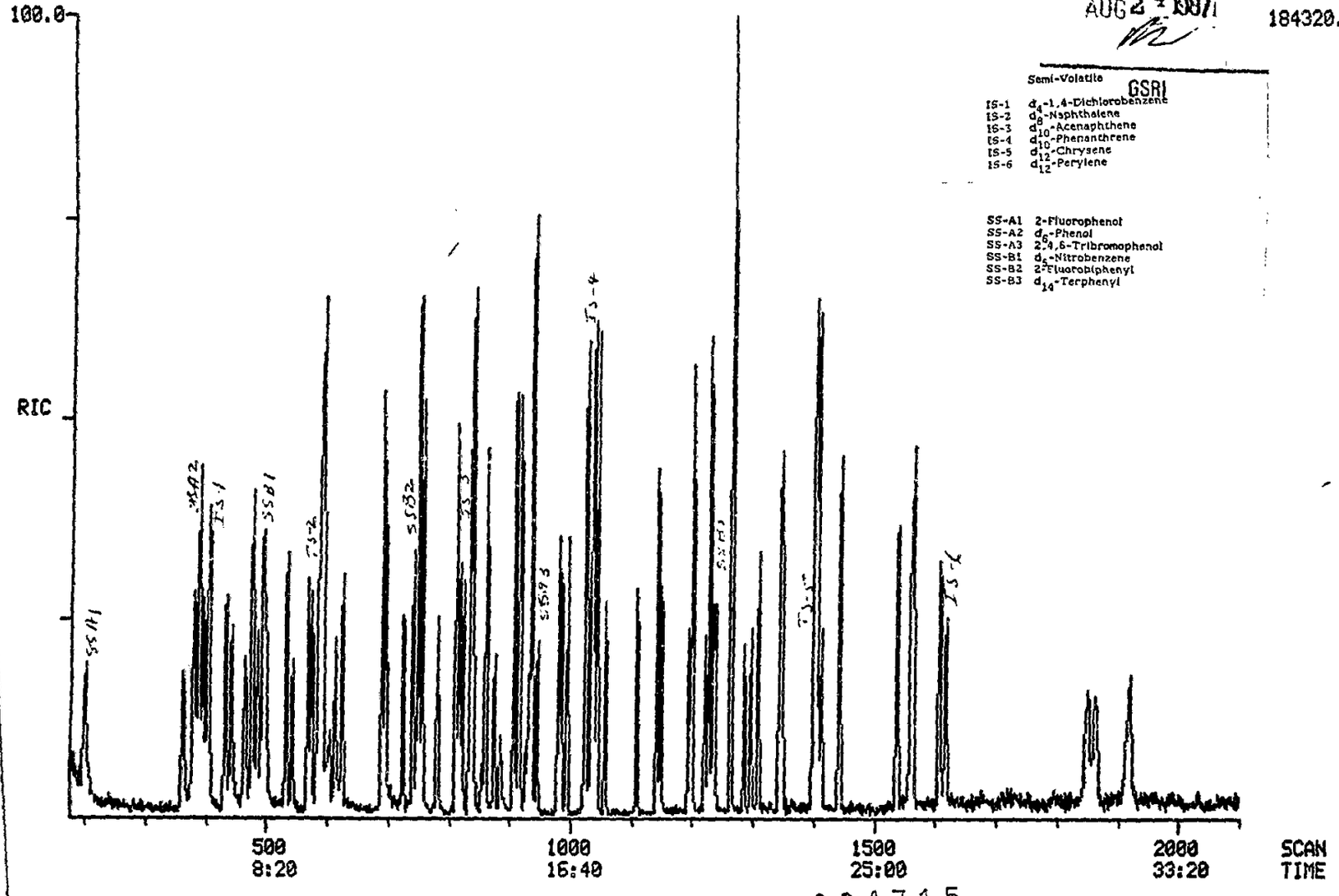
004714

CS081487A Case 7770

RIC DATA: CS082487B #1 SCANS 175 TO 2100
08/24/87 15:52:00 CALI: CS082487B #1
SAMPLE: SSTD50 865-69-SVP50 CASE: ~~7760~~ 7770
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

REVIEWED
AUG 2 4 1987

184320.



Semi-Volatile GSRI

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 d_6-Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004715

Quantitation Report File: CS082487B

ata: CS082487B.TI
08/24/87 15:52:00
Sample: SSTD50 865-69-SVP50 CASE: ~~7760~~ 7770
onds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
ormula:
Submitted by: EPA Instrument: C Weight: 0.015
Analyst: SA Acct. No.: 62003020

MOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)
13	C315	PHENOL*	
14	C325	BIS(2 CHLOROETHYL)ETHER	
15	C330	2-CHLOROPHENOL	
16	C335	1,3-DICHLOROBENZENE	
17	C340	14DICHLOROBENZENE*	
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	
20	C355	2-METHYLPHENOL	
21	C360	BIS(2-CHLOROISOPROPYL)ETHER	
22	C365	4-METHYLPHENOL	
23	C370	NITROSOPROPYLAMINE**	
24	C375	HEXACHLOROETHANE	
25	C410	NITROBENZENE	
26	C415	ISOPHORONE	
27	C420	2-NITROPHENOL*	
28	C425	2,4-DIMETHYLPHENOL	
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	
31	C440	2,4-DICHLOROPHENOL*	
32	C445	1,2,4-TRICHLOROBENZENE	
33	C450	NAPHTHALENE	
34	C455	4-CHLOROANILINE	
35	C460	CL6BUTADIENE*	
36	C465	4CHLORO3METHYLPHENOL*	
37	C470	2-METHYLNAPTHALENE	
38	C510	CL6CYCLOPENTADIENE**	
39	C515	246TRICHLOROPHENOL*	
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	
44	C540	ACENAPHTHYLENE	
45	C545	3-NITROANILINE	
46	C550	ACENAPTHENE*	
47	C555	24DINITROPHENOL**	

004716

No	Name	
48	C560	4NITROPHENOL**
49	C565	DIBENZOFURAN
50	C570	2,4-DINITROTOLUENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	402	6:42	1	1.000	A BB	27697.	40.000 UG/L	0.86
2	136	590	9:50	2	1.000	A BB	106129.	40.000 UG/L	0.86
3	164	835	13:55	3	1.000	A BB	64329.	40.000 UG/L	0.86
4	188	1035	17:15	4	1.000	A BB	111157.	40.000 UG/L	0.86
5	240	1403	23:23	5	1.000	A BB	89328.	40.000 UG/L	0.86
6	264	1618	26:58	6	1.000	A BB	60721.	40.000 UG/L	0.86
7	112	200	3:20	1	0.498	A BV	42204.	40.000 UG/L	0.86
8	99	386	6:26	1	0.960	A BB	85709.	50.000 UG/L	1.08
9	82	492	8:12	2	0.834	A BB	57517.	50.000 UG/L	1.08
10	172	750	12:30	3	0.898	A BB	92263.	50.000 UG/L	1.08
11	330	946	15:46	4	0.914	A BB	15926.	50.000 UG/L	1.08
12	244	1265	21:05	5	0.902	A BB	99507.	50.000 UG/L	1.08
13	94	388	6:28	1	0.965	A BB	66224.	50.000 UG/L	1.08
14	93	377	6:17	1	0.938	A VV	48789.	50.000 UG/L	1.08
15	128	380	6:20	1	0.945	A BB	51877.	50.000 UG/L	1.08
16	146	395	6:35	1	0.983	A BV	50805.	50.000 UG/L	1.08
17	146	405	6:45	1	1.007	A VB	51800.	50.000 UG/L	1.08
18	108	441	7:21	1	1.097	A BB	31529.	50.000 UG/L	1.08
19	146	432	7:12	1	1.075	A BB	52230.	50.000 UG/L	1.08
20	108	475	7:55	1	1.182	A BV	48011.	50.000 UG/L	1.08
21	45	464	7:44	1	1.154	A BB	71525.	50.000 UG/L	1.08
22	107	498	8:18	1	1.239	A BB	52830.	50.000 UG/L	1.08
23	130	485	8:05	1	1.206	A BB	10036.	50.000 UG/L	1.08
24	117	477	7:57	1	1.187	A BB	22209.	50.000 UG/L	1.08
25	77	494	8:14	2	0.837	A BB	66924.	50.000 UG/L	1.08
26	82	533	8:53	2	0.903	A BV	100791.	50.000 UG/L	1.08
27	139	542	9:02	2	0.919	A BB	30642.	50.000 UG/L	1.08
28	122	569	9:29	2	0.964	A BV	38775.	50.000 UG/L	1.08
29	122	605	10:05	2	1.025	A BB	30278.	50.000 UG/L	1.08
30	93	575	9:35	2	0.975	A BB	65864.	50.000 UG/L	1.08
31	162	584	9:44	2	0.990	A BV	37074.	50.000 UG/L	1.08
32	180	587	9:47	2	0.995	A BB	42090.	50.000 UG/L	1.08
33	128	592	9:52	2	1.003	A VB	141658.	50.000 UG/L	1.08
34	127	613	10:13	2	1.039	A BB	49789.	50.000 UG/L	1.08
35	225	625	10:25	2	1.059	A BB	21030.	50.000 UG/L	1.08
36	107	696	11:36	2	1.180	A BV	44123.	50.000 UG/L	1.08
37	141	691	11:31	2	1.171	A BV	74864.	50.000 UG/L	1.08
38	237	725	12:05	3	0.868	A BB	21619.	50.000 UG/L	1.08
39	196	741	12:21	3	0.887	A BV	29040.	50.000 UG/L	1.08
40	196	748	12:28	3	0.896	A VV	31432.	50.000 UG/L	1.08
41	162	756	12:36	3	0.905	A BV	88431.	50.000 UG/L	1.08
42	138	782	13:02	3	0.937	A BB	38352.	50.000 UG/L	1.08
43	163	818	13:38	3	0.980	A BB	88225.	50.000 UG/L	1.08
44	152	812	13:32	3	0.972	A BB	132365.	50.000 UG/L	1.08
45	138	841	14:01	3	1.007	A BV	25918.	50.000 UG/L	1.08
46	154	839	13:59	3	1.005	A BB	84289.	50.000 UG/L	1.08
47	184	855	14:15	3	1.024	A BV	10187.	50.000 UG/L	1.08
48	109	885	14:45	3	1.060	A BB	8761.	50.000 UG/L	1.08
49	168	861	14:21	3	1.031	A BB	122882.	50.000 UG/L	1.08
50	165	875	14:35	3	1.048	A BB	29201.	50.000 UG/L	1.08

Case 7770

CS082457B

004717

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	6:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	9:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	13:55	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:23	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	26:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:20	1.00	0.498	1.00	50.00	50.00	1.000	1.000	1.00
8	6:26	1.00	0.960	1.00	50.00	50.00	1.219	1.219	1.00
9	8:12	1.00	0.834	1.00	50.00	50.00	2.476	2.476	1.00
10	12:30	1.00	0.898	1.00	50.00	50.00	0.434	0.434	1.00
11	15:46	1.00	0.914	1.00	50.00	50.00	1.147	1.147	1.00
12	21:05	1.00	0.902	1.00	50.00	50.00	0.115	0.115	1.00
13	6:28	1.00	0.965	1.00	50.00	50.00	0.891	0.891	1.00
14	6:17	1.00	0.938	1.00	50.00	50.00	1.913	1.913	1.00
15	6:20	1.00	0.945	1.00	50.00	50.00	1.409	1.409	1.00
16	6:35	1.00	0.983	1.00	50.00	50.00	1.498	1.498	1.00
17	6:45	1.00	1.007	1.00	50.00	50.00	1.467	1.467	1.00
18	7:21	1.00	1.097	1.00	50.00	50.00	1.496	1.496	1.00
19	7:12	1.00	1.075	1.00	50.00	50.00	0.911	0.911	1.00
20	7:55	1.00	1.182	1.00	50.00	50.00	1.509	1.509	1.00
21	7:44	1.00	1.154	1.00	50.00	50.00	1.387	1.387	1.00
22	8:18	1.00	1.239	1.00	50.00	50.00	2.066	2.066	1.00
23	8:05	1.00	1.206	1.00	50.00	50.00	1.526	1.526	1.00
24	7:57	1.00	1.187	1.00	50.00	50.00	0.290	0.290	1.00
25	8:14	1.00	0.837	1.00	50.00	50.00	0.641	0.641	1.00
26	8:53	1.00	0.903	1.00	50.00	50.00	0.504	0.504	1.00
27	9:02	1.00	0.919	1.00	50.00	50.00	0.760	0.760	1.00
28	9:29	1.00	0.964	1.00	50.00	50.00	0.231	0.231	1.00
29	10:05	1.00	1.025	1.00	50.00	50.00	0.292	0.292	1.00
30	9:35	1.00	0.975	1.00	50.00	50.00	0.228	0.228	1.00
31	9:44	1.00	0.990	1.00	50.00	50.00	0.496	0.496	1.00
32	9:47	1.00	0.995	1.00	50.00	50.00	0.279	0.279	1.00
33	9:52	1.00	1.003	1.00	50.00	50.00	0.317	0.317	1.00
34	10:13	1.00	1.039	1.00	50.00	50.00	1.068	1.068	1.00
35	10:25	1.00	1.059	1.00	50.00	50.00	0.375	0.375	1.00
36	11:36	1.00	1.180	1.00	50.00	50.00	0.159	0.159	1.00
37	11:31	1.00	1.171	1.00	50.00	50.00	0.333	0.333	1.00
38	12:05	1.00	0.868	1.00	50.00	50.00	0.564	0.564	1.00
39	12:21	1.00	0.887	1.00	50.00	50.00	0.269	0.269	1.00
40	12:28	1.00	0.896	1.00	50.00	50.00	0.361	0.361	1.00
41	12:36	1.00	0.905	1.00	50.00	50.00	0.391	0.391	1.00
42	13:02	1.00	0.937	1.00	50.00	50.00	1.100	1.100	1.00
43	13:38	1.00	0.980	1.00	50.00	50.00	0.477	0.477	1.00
44	13:32	1.00	0.972	1.00	50.00	50.00	1.097	1.097	1.00
45	14:01	1.00	1.007	1.00	50.00	50.00	1.646	1.646	1.00
46	13:59	1.00	1.005	1.00	50.00	50.00	0.322	0.322	1.00
47	14:15	1.00	1.024	1.00	50.00	50.00	1.048	1.048	1.00
48	14:45	1.00	1.060	1.00	50.00	50.00	0.127	0.127	1.00
49	14:21	1.00	1.031	1.00	50.00	50.00	0.109	0.109	1.00
50	14:35	1.00	1.048	1.00	50.00	50.00	1.528	1.528	1.00
							0.363	0.363	1.00

Case 7770

CS 052 48 713

004718

Quantitation Report File: CS082487B

Data: CS082487B.TI
08/24/87 15:52:00
Sample: SSTD50 865-69-SVP50 CASE: ~~7760~~ 7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.015
Submitted by: EPA Analyst: SA Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name	
51	C575	2,6-DINITROTOLUENE
52	C580	DIETHYL PHTHALATE
53	C585	4-CHLOROPHENYL PHENYL ETHER
54	C590	FLUORENE
55	C595	4-NITROANILINE
56	C610	4,6-DINITRO-2-METHYLPHENOL
57	C615	DIPHENYLAMINE*
58	C625	4-BROMOPHENYL PHENYL ETHER
59	C630	HEXACHLOROBENZENE
60	C635	PENTACHLOROPHENOL*
61	C640	PHENANTHRENE
62	C645	ANTHRACENE
63	C650	DI-N-BUTYL PHTHALATE
64	C655	FLUORANTHENE*
65	C715	PYRENE
66	C720	BUTYL BENZYL PHTHALATE
67	C725	3,3'-DICHLOROBENZIDINE
68	C735	BIS(2-ETHYLHEXYL)PHTHALATE
69	C740	CHRYSENE
70	C760	DINOCTYLPHTHALATE*
71	C775	BENZO(A)PYRENE*
72	C780	INDENO(1,2,3-CD)PYRENE
73	C785	DIBENZO(A,H)ANTHRACENE
74	C790	BENZO(G,H,I)PERYLENE
75	C800	ALHA-BHC
76	C815	DELTA-BHC
77	C820	HEPTACHLOR
78	C825	ALDRIN
79	C830	HEPTACHLOR EPOXIDE
80	C845	ENDOSULFAN-I
81	C860	4,4'-DDE
82	C855	DIELDRIN
83	C865	ENDRIN
84	C870	ENDOSULFAN-II
85	C890	4,4'-DDT
86	C875	4,4'-DDD
87	C900	METHOXYCHLOR
88	C840	GAMMA CHLORDANE
89	C765	BENZO(B)FLUORANTHENE
90	C770	BENZO(K)FLUORANTHENE
91	C730	BENZO(A)ANTHRACENE
92	C805	BETA-BHC
93	C810	GAMMA-BHC
94	C835	ALPHA CHLORDANE

004719

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	823	13:43	3	0.986	A BB	24904.	50.000 UG/L	1.08
52	149	918	15:18	3	1.099	A BB	86787.	50.000 UG/L	1.08
53	204	916	15:16	3	1.097	A BB	42881.	50.000 UG/L	1.08
54	166	909	15:09	3	1.089	A BB	94214.	50.000 UG/L	1.08
55	138	926	15:26	3	1.109	A VB	16108.	50.000 UG/L	1.08
56	198	931	15:31	4	0.900	A BB	17871.	50.000 UG/L	1.08
57	169	935	15:35	4	0.903	A BB	74674.	50.000 UG/L	1.08
58	248	981	16:21	4	0.948	A BB	28805.	50.000 UG/L	1.08
59	284	995	16:35	4	0.961	A BB	31299.	50.000 UG/L	1.08
60	266	1025	17:05	4	0.990	A BB	19948.	50.000 UG/L	1.08
61	178	1037	17:17	4	1.002	A BV	143228.	50.000 UG/L	1.08
62	178	1044	17:24	4	1.009	A VB	130299.	50.000 UG/L	1.08
63	149	1143	19:03	4	1.104	A VB	159373.	50.000 UG/L	1.08
64	202	1200	20:00	4	1.159	A VB	138630.	50.000 UG/L	1.08
65	202	1229	20:29	5	0.876	A BB	144257.	50.000 UG/L	1.08
66	149	1347	22:27	5	0.960	A BB	64773.	50.000 UG/L	1.08
67	252	1408	23:28	5	1.004	A BB	23416.	50.000 UG/L	1.08
68	149	1444	24:04	5	1.029	A BB	85011.	50.000 UG/L	1.08
69	228	1407	23:27	5	1.003	A VV	103135.	50.000 UG/L	1.08
70	149	1538	25:38	6	0.951	A BB	134518.	50.000 UG/L	1.08
71	252	1608	26:48	6	0.994	A BB	90589.	50.000 UG/L	1.08
72	276	1851	30:51	6	1.144	A BV	76781.	50.000 UG/L	1.08
73	278	1864	31:04	6	1.152	A BB	74331.	50.000 UG/L	1.08
74	276	1920	32:00	6	1.187	A BB	76695.	50.000 UG/L	1.08
75	183	986	16:26	4	0.953	A BB	14773.	50.000 UG/L	1.08
76	183	1058	17:38	4	1.022	A BB	10633.	50.000 UG/L	1.08
77	100	1110	18:30	4	1.072	A BB	18953.	50.000 UG/L	1.08
78	66	1150	19:10	4	1.111	A BB	19552.	50.000 UG/L	1.08
79	353	1195	19:55	4	1.155	A BB	8540.	50.000 UG/L	1.08
80	195	1235	20:35	4	1.193	A BB	4463.	50.000 UG/L	1.08
81	246	1265	21:05	4	1.222	A BB	24492.	50.000 UG/L	1.08
82	79	1264	21:04	4	1.221	A BB	24909.	50.000 UG/L	1.08
83	81	1287	21:27	4	1.243	A BB	6452.	50.000 UG/L	1.08
84	195	1297	21:37	4	1.253	A BB	4174.	50.000 UG/L	1.08
85	235	1349	22:29	4	1.303	A BB	38782.	50.000 UG/L	1.08
86	235	1309	21:49	4	1.265	A BB	45730.	50.000 UG/L	1.08
87	227	1414	23:34	4	1.366	A VB	64709.	50.000 UG/L	1.08
88	373	1239	20:39	4	1.197	A BB	10355.	50.000 UG/L	1.08
89	252	1561	26:01	5	1.113	M XX	106307.	50.000 UG/L	1.08
90	252	1564	26:04	5	1.115	M XX	115782.	50.000 UG/L	1.08
91	228	1401	23:21	5	0.999	M XX	120391.	50.000 UG/L	1.08
92	183	1025	17:05	4	0.990	M XX	13163.	50.000 UG/L	1.08
93	183	1025	17:05	4	0.990	M XX	14980.	50.000 UG/L	1.08
94	373	1222	20:22	4	1.181	M XX	11005.	50.000 UG/L	1.08

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	13:43	1.00	0.986	1.00	50.00	50.00	0.310	0.310	1.00
52	15:18	1.00	1.099	1.00	50.00	50.00	1.079	1.079	1.00
53	15:16	1.00	1.097	1.00	50.00	50.00	0.533	0.533	1.00
54	15:09	1.00	1.089	1.00	50.00	50.00	1.172	1.172	1.00
55	15:26	1.00	1.109	1.00	50.00	50.00	0.200	0.200	1.00
56	15:31	1.00	0.900	1.00	50.00	50.00	0.129	0.129	1.00
57	15:35	1.00	0.903	1.00	50.00	50.00	0.537	0.537	1.00
58	16:21	1.00	0.948	1.00	50.00	50.00	0.207	0.207	1.00
59	16:35	1.00	0.961	1.00	50.00	50.00	0.225	0.225	1.00
60	17:05	1.00	0.990	1.00	50.00	50.00	0.144	0.144	1.00

CS082457B Case 7770

004720

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
61	17:17	1.00	1.002	1.00	50.00	50.00	1.031	1.031	1.00
62	17:24	1.00	1.009	1.00	50.00	50.00	0.938	0.938	1.00
63	19:03	1.00	1.104	1.00	50.00	50.00	1.147	1.147	1.00
64	20:00	1.00	1.159	1.00	50.00	50.00	0.998	0.998	1.00
65	20:29	1.00	0.876	1.00	50.00	50.00	1.292	1.292	1.00
66	22:27	1.00	0.960	1.00	50.00	50.00	0.580	0.580	1.00
67	23:28	1.00	1.004	1.00	50.00	50.00	0.210	0.210	1.00
68	24:04	1.00	1.029	1.00	50.00	50.00	0.761	0.761	1.00
69	23:27	1.00	1.003	1.00	50.00	50.00	0.924	0.924	1.00
70	25:38	1.00	0.951	1.00	50.00	50.00	1.772	1.772	1.00
71	26:48	1.00	0.994	1.00	50.00	50.00	1.194	1.194	1.00
72	30:51	1.00	1.144	1.00	50.00	50.00	1.012	1.012	1.00
73	31:04	1.00	1.152	1.00	50.00	50.00	0.979	0.979	1.00
74	32:00	1.00	1.187	1.00	50.00	50.00	1.010	1.010	1.00
75	16:26	1.00	0.953	1.00	50.00	50.00	0.106	0.106	1.00
76	17:38	1.00	1.022	1.00	50.00	50.00	0.077	0.077	1.00
77	18:30	1.00	1.072	1.00	50.00	50.00	0.136	0.136	1.00
78	19:10	1.00	1.111	1.00	50.00	50.00	0.141	0.141	1.00
79	19:55	1.00	1.155	1.00	50.00	50.00	0.061	0.061	1.00
80	20:35	1.00	1.193	1.00	50.00	50.00	0.032	0.032	1.00
81	21:05	1.00	1.222	1.00	50.00	50.00	0.176	0.176	1.00
82	21:04	1.00	1.221	1.00	50.00	50.00	0.179	0.179	1.00
83	21:27	1.00	1.243	1.00	50.00	50.00	0.046	0.046	1.00
84	21:37	1.00	1.253	1.00	50.00	50.00	0.030	0.030	1.00
85	22:29	1.00	1.303	1.00	50.00	50.00	0.279	0.279	1.00
86	21:49	1.00	1.265	1.00	50.00	50.00	0.329	0.329	1.00
87	23:34	1.00	1.366	1.00	50.00	50.00	0.466	0.466	1.00
88	20:39	1.00	1.197	1.00	50.00	50.00	0.075	0.075	1.00
89	26:01	1.00	1.113	1.00	50.00	50.00	0.952	0.952	1.00
90	26:04	1.00	1.115	1.00	50.00	50.00	1.037	1.037	1.00
91	23:21	1.00	0.999	1.00	50.00	50.00	1.078	1.078	1.00
92	17:05	1.00	0.990	1.00	50.00	50.00	0.095	0.095	1.00
93	17:05	1.00	0.990	1.00	50.00	50.00	0.108	0.108	1.00
94	20:22	1.00	1.181	1.00	50.00	50.00	0.079	0.079	1.00

CS0824178 Case 1770

004721

gsri GULF SOUTH RESEARCH INSTITUTE
Post Office Box 26518 New Orleans, Louisiana 70186 Telephone 504 283-4223

Semivolatile Fraction

Raw QC Data

Case 7770

004722

Mass List
08/05/87 10:28:00 + 8:01
Sample: DFTPP PERFORMANCE STANDARD
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Enhanced (S 15B 2N OT)

Data: CP080587A # 481
Cali: CP080587A # 1
CASE:

Base m/z: 198
RIC: 64128.

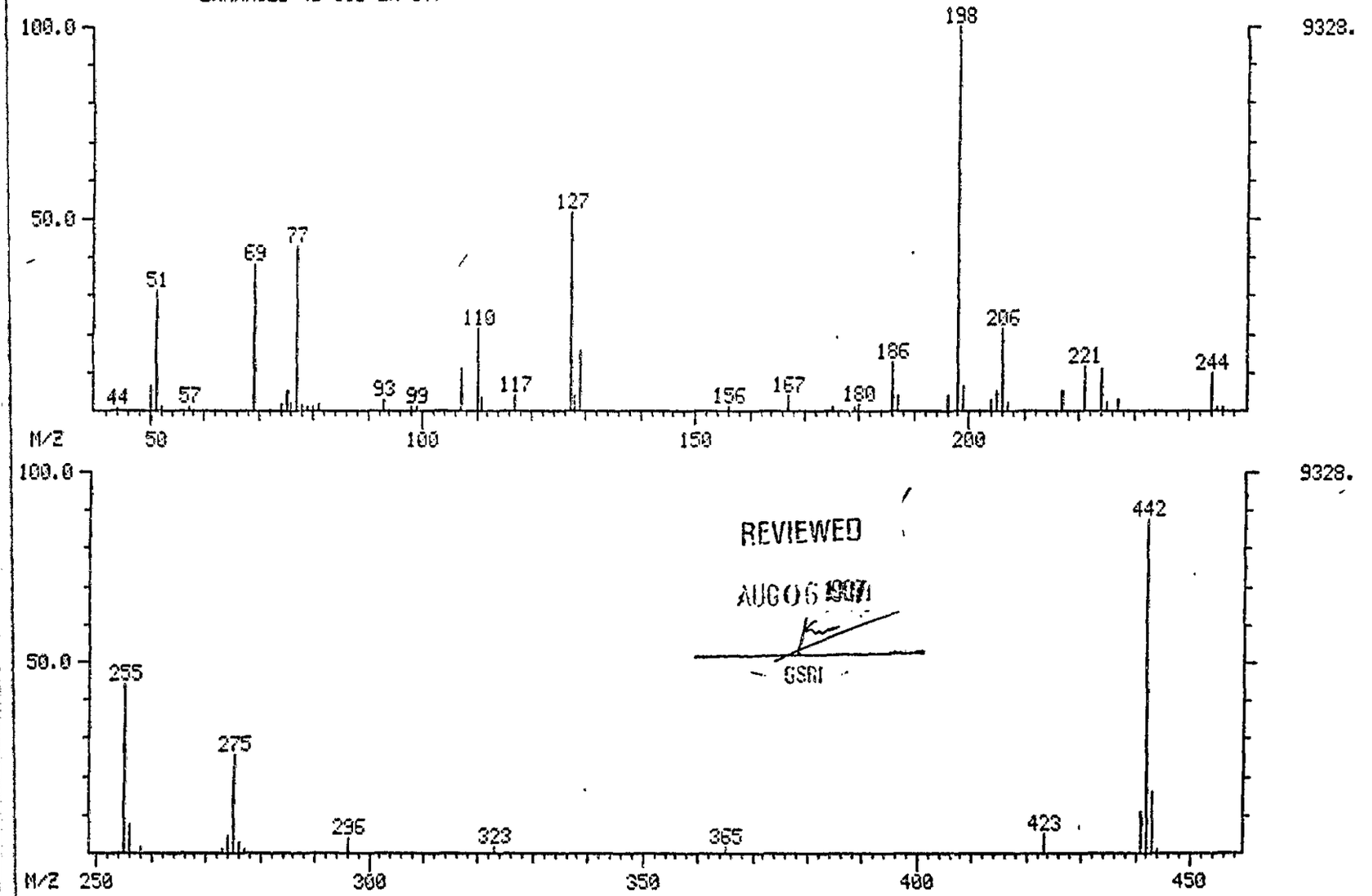
44	0.00	0.	Minima	Min Inten:		0.
444			Maxima	#	0	
Mass	% RA	Inten.	Mass		% RA	Inten.
44?	0.72	67.	274		4.58	427.
50	6.44	601.	275		25.77	2404.
51	31.26	2916.	276		2.92	272.
52	1.07	100.	277		0.99	92.
57	1.25	117.	296		4.06	379.
69	38.38	3580.	323		1.98	185.
74	1.90	177.	365		2.03	189.
75	4.97	464.	423		5.35	499.
76	2.40	224.	441		11.26	1050.
77	43.01	4012.	442		87.56	8168.
78	1.84	172.	443		16.36	1526.
79	1.06	99.	444		1.18	110.
80	1.09	102.				
81	1.70	159.				
93	2.79	260.				
98	1.00	93.				
99	1.18	110.				
107	11.32	1056.				
110	21.63	2018.				
111	3.74	349.				
117	4.19	391.				
127	51.46	4800.				
128	4.04	377.				
129	15.95	1488.				
156	1.15	107.				
167	4.08	381.				
175	1.27	118.				
179	1.29	120.				
180	1.76	164.				
186	12.69	1184.				
187	3.93	367.				
196	3.83	357.				
198	100.00	9328.				
199	6.57	613.				
204	3.17	296.				
205	5.29	493.				
206	21.29	1986.				
207	2.33	217.				
217	5.12	478.				
221	11.69	1090.				
224	11.30	1054.				
225	2.12	198.				
227	2.64	246.				
244	9.98	931.				
245	0.94	88.				
246	1.25	117.				
255	44.25	4128.				
256	7.27	678.				
258	1.61	150.				
273	1.25	117.				

004723

MASS SPECTRUM
08/05/87 10:28:00 + 8:01
SAMPLE: DFTPP PERFORMANCE STANDARD CASE:
CONDS.: 45/4/300012 DB-5 FSCC 1MICRON 30METERS
ENHANCED (S 15B 2N 0T)

DATA: CP080587A #481
CALI: CP080587A #1

BASE M/Z: 198
RIC: 64128.



REVIEWED
AUG 06 1987
GSRI

004724

Mass List
08/14/87 14:08:00 + 8:03
Sample: DFTPP 865-75-PERF
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Enhanced (S 15B 2N 0T)

Data: CP081487A # 483
Cali: CP081487A # 1
CASE: 7770/7714

Base m/z: 198
RIC: 72704.

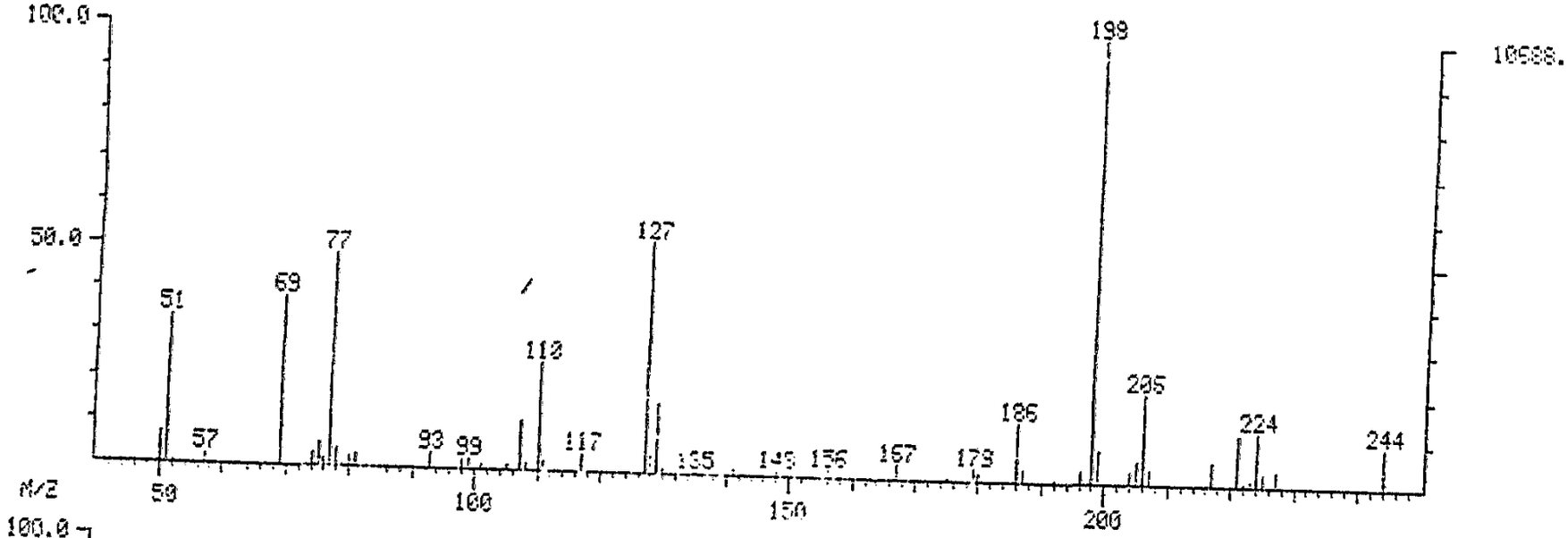
50	0.00	0.	Minima	Min Inten:	0.
444			Maxima	# 0	
Mass	% RA	Inten.	Mass	% RA	Inten.
50	6.74	720.	225	2.78	297.
51	33.57	3588.	227	3.59	384.
52	0.59	63.	244	9.16	979.
57	2.47	264.	255	43.49	4648.
69	38.40	4104.	256	6.07	649.
74	3.00	321.	258	1.00	107.
75	5.21	557.	273	0.91	97.
76	1.68	180.	274	3.94	421.
77	47.98	5128.	275	22.87	2444.
78	3.90	417.	276	3.24	346.
79	0.84	90.	296	4.59	491.
80	2.08	222.	323	1.45	155.
81	2.67	285.	365	1.55	166.
93	3.51	375.	372	0.70	75.
98	2.04	218.	423	3.73	399.
99	2.32	248.	441	7.68	821.
101	0.96	103.	442	67.74	7240.
105	1.00	107.	443	13.68	1462.
107	10.95	1170.	444	0.56	60.
108	1.66	177.			
110	24.33	2600.			
111	3.30	353.			
117	4.35	465.			
127	52.47	5608.			
128	4.69	501.			
129	15.70	1678.			
130	0.91	97.			
135	0.83	89.			
141	1.01	108.			
148	1.03	110.			
156	1.73	185.			
167	3.32	355.			
175	0.58	62.			
179	2.85	305.			
180	1.90	203.			
186	13.40	1432.			
187	3.11	332.			
192	0.83	99.			
196	2.84	304.			
198	100.00	10688.			
199	7.66	819.			
204	3.06	327.			
205	5.31	568.			
206	20.51	2192.			
207	3.28	351.			
217	5.28	564.			
221	11.45	1224.			
222	0.63	67.			
223	0.91	97.			
224	12.44	1330.			

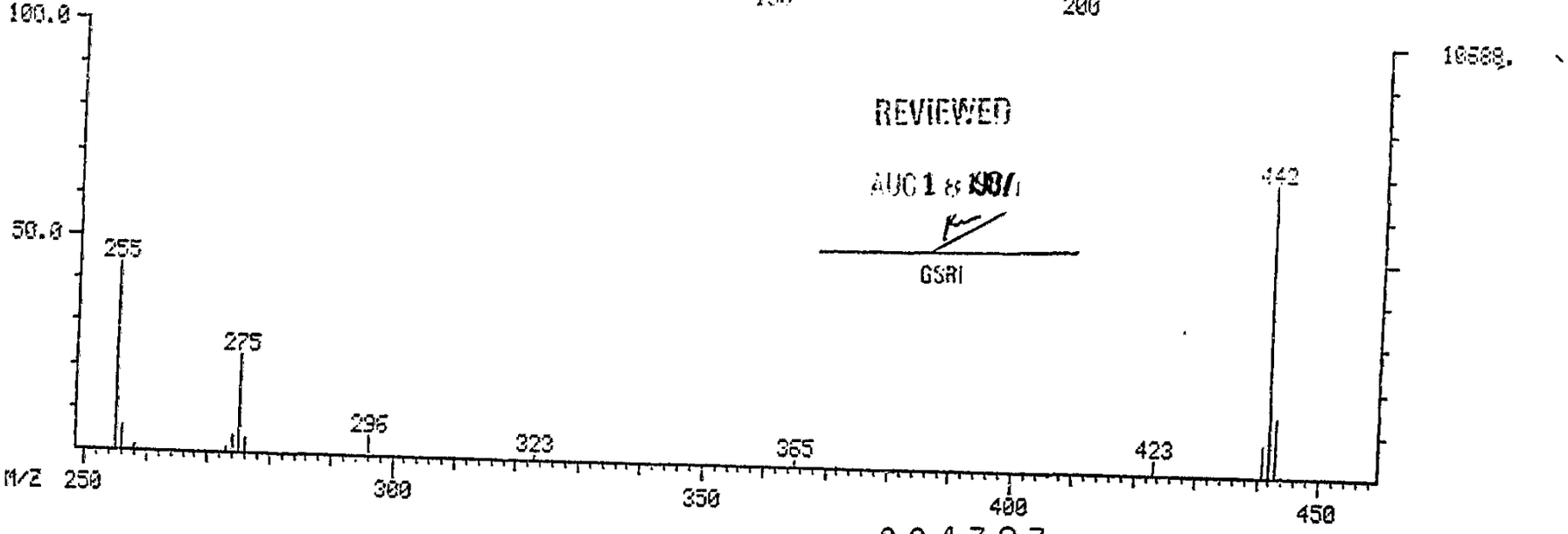
004726

MASS SPECTRUM
08/14/87 14:08:00 + 8:03
SAMPLE: DFTPP 865-75-FERF CASE: 7770/7714
CONDS.: 45/4/300012 DB-5 FSCC 1MICRON 30METERS
ENHANCED (S 15B 2N 0T)

DATA: CP081487A #483
CALI: CP081487A #1

BASE M/Z: 198
RIC: 72704.





REVIEWED
AUG 18 1987
GSRI

004727

004726

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number: 7770
Inst ID: C
Lab ID: CP081487A

Laboratory: GSRI
Sens Date. 08/14/87
Cali Date: 6/25/87

Contract: 68-01-7141
Sens Time: 14:08:00
Analyst: SA

Data release authorized by: _____

M/E	Ion Abundance Criteria	Spec # 483	
51	30 to 60% of mass 198	33.57	
68	less than 2% of mass 69	0.00	(0.00) 1
69	mass 69 relative abundance	38.40	
70	less than 2% of mass 69	0.00	(0.00) 1
127	40 TO 60% of mass 198	52.47	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	7.66	
275	10 TO 30% of mass 198	22.87	
365	greater than 1% of mass 198	1.55	
441	less than mass 443	7.68	
442	greater than 40% of mass 198	67.74	
443	17 TO 23% of mass 442	13.68	(20.19) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

004728

Mass List Data: CP082487B # 461 Base m/z: 198
08/24/87 13:39:00 + 7:41 Cali: CP082487B # 1 RIC: 47168.
Sample: DFTPP 865-75-PERF CASE: 7770
Cond.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Enhanced (S 15B 2N OT)

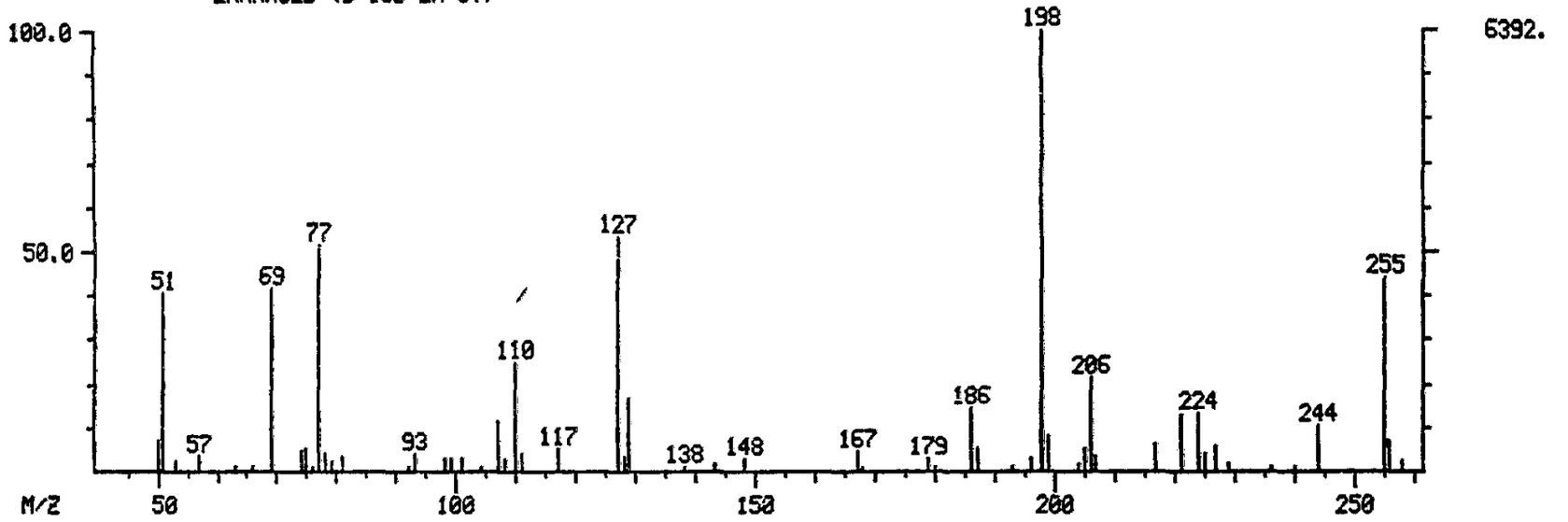
50	0.00	0.	Minima	Min	Inten:	0.
465			Maxima	#	0	
Mass	% RA	Inten.	Mass		% RA	Inten.
50	7.04	450.	229		1.66	106.
51	40.80	2608.	236		0.94	60.
53	2.17	139.	240		1.00	64.
57	3.71	237.	244		10.20	652.
63	0.94	60.	255		44.24	2828.
66	1.38	88.	256		7.13	456.
69	41.99	2684.	258		2.33	149.
74	4.40	281.	273		1.72	110.
75	5.24	335.	274		3.55	227.
76	0.91	58.	275		23.65	1512.
77	52.00	3324.	276		2.89	185.
78	4.26	272.	277		1.05	67.
79	2.57	164.	296		5.98	382.
81	3.65	233.	310		0.94	60.
92	1.02	65.	323		1.39	89.
93	3.93	251.	331		1.49	95.
98	2.96	189.	335		1.61	103.
99	3.08	197.	365		2.83	181.
101	2.85	182.	398		0.94	60.
104	1.10	70.	423		4.99	319.
107	11.78	753.	425		1.31	84.
108	3.11	199.	441		8.43	539.
110	24.81	1586.	442		63.14	4036.
111	4.19	268.	443		13.60	869.
117	5.52	353.	465		1.03	66.
127	53.57	3424.				
128	3.49	223.				
129	16.68	1066.				
138	1.00	64.				
143	1.53	98.				
148	2.66	170.				
167	4.57	292.				
168	0.94	60.				
179	2.94	188.				
180	1.41	90.				
186	14.31	915.				
187	5.02	321.				
193	1.03	66.				
196	2.97	190.				
198	100.00	6392.				
199	7.87	503.				
204	1.67	107.				
205	5.08	325.				
206	21.78	1392.				
207	3.27	209.				
217	6.46	413.				
221	12.58	804.				
224	13.25	847.				
225	3.91	250.				
227	5.55	355.				

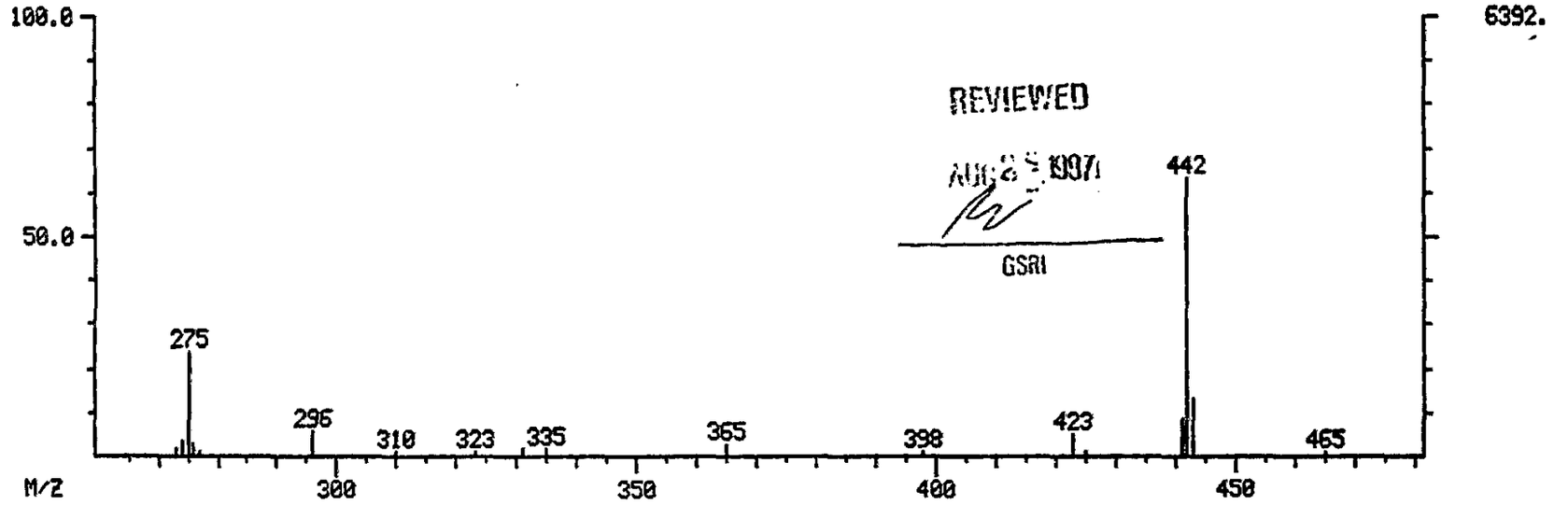
004729

MASS SPECTRUM
08/24/87 13:39:00 + 7:41
SAMPLE: DFTPP 865-75-PERF CASE: 7770
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
ENHANCED (S 15B 2N 0T)

DATA: CP082487B #461
CALI: CP082487B #1

BASE M/Z: 198
RIC: 47168.





REVIEWED
AUG 25 1987
GSRI

004730

004729

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	7770	Laboratory:	GSRI	Contract:	68-01-7141
Inst ID:	C	Sens Date:	08/24/87	Sens Time:	13:39:00
Lab ID:	CP082487B	Cali Date:	6/25/87	Analyst:	SA

Data release authorized by: _____

M/E	Ion Abundance Criteria	Spec # 461	
51	30 to 60% of mass 198	40.80	
68	less than 2% of mass 69	0.00	(0.00) 1
69	mass 69 relative abundance	41.99	
70	less than 2% of mass 69	0.00	(0.00) 1
127	40 TO 60% of mass 198	53.57	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	7.87	
275	10 TO 30% of mass 198	23.65	
365	greater than 1% of mass 198	2.83	
441	less than mass 443	8.43	
442	greater than 40% of mass 198	63.14	
443	17 TO 23% of mass 442	13.60	(21.53) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

004731

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BABBLK

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SVBABBLK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/05/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/14/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	10	U
111-91-1	bis(2-Chloroethoxy)Methane	50	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	50	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethyl Phthalate	50	U
208-96-8	Acenaphthylene	10	U
		10	U

004732

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BABBLK

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SVBABBLK

Level: (low/med) LOW Date Received: _____

Moisture: not dec. ____ dec. ____ Date Extracted: 08/05/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/14/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

004733

FORM I SV-2

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BABBLK

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SVBABBLK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/05/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/14/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

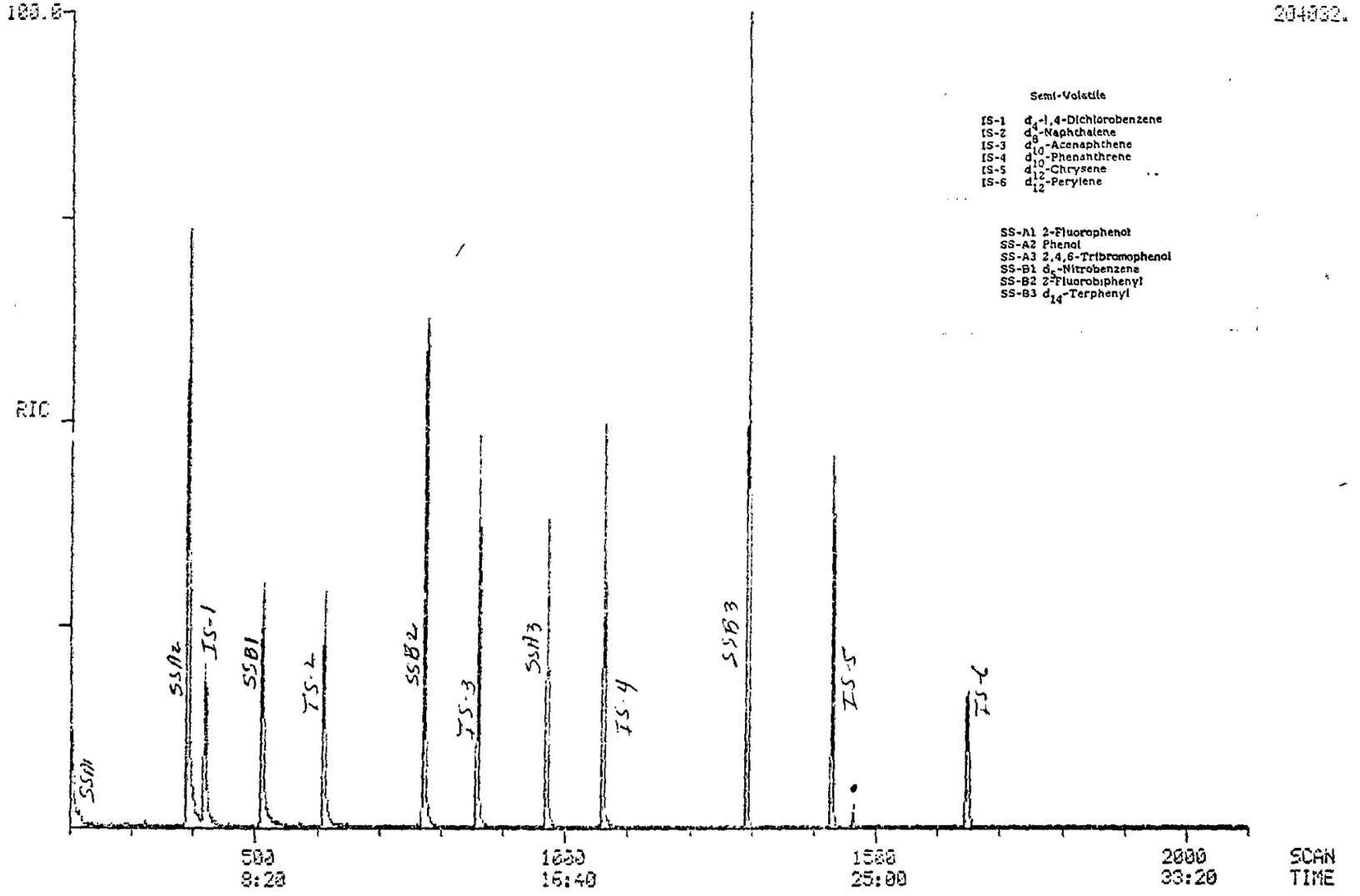
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

004734

RIC DATA: SVBABBLK #1 SCANS 200 TO 2100
08/14/87 18:29:00 CALI: SVBABBLK #1
SAMPLE: SBLK BAB BLANK#1 LOW WATER CASE:7770
CONDS.: 45/4/300012 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 23, 3



004735

004734

Quantitation Report File: SVBABBLK

Data: SVBABBLK.TI
08/14/87 18:29:00
Sample: SBLK BAB BLANK#1 LOW WATER CASE:7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.008
Submitted by: EPA Analyst: SA Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	419	6:59	1	1.000	A BB	34910.	40.000 UG/L	5.32
2	136	611	10:11	2	1.000	A BB	114379.	40.000 UG/L	5.32
3	164	860	14:20	3	1.000	A BB	80509.	40.000 UG/L	5.32
4	188	1061	17:41	4	1.000	A BB	136201.	40.000 UG/L	5.32
5	240	1430	23:50	5	1.000	A BB	115668.	40.000 UG/L	5.32
6	264	1648	27:28	6	1.000	A BB	63766.	40.000 UG/L	5.32
7	112	204	3.24	1	0.487	A BB	44777.	51.499 UG/L	6.84
8	99	392	6:32	1	0.926	A BB	268466.	131.074 UG/L	17.42
9	82	511	8:31	2	0.836	A BB	93469.	79.361 UG/L	10.55
10	172	774	12:54	3	0.900	A BB	160317.	67.556 UG/L	8.98
11	330	971	16:11	4	0.915	A BB	38203.	92.848 UG/L	12.34
12	244	1293	21:33	5	0.904	A BB	228216.	90.072 UG/L	11.97

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:12	0.97	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:16	0.99	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:29	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:49	0.89	0.530	0.92	51.50	50.00	1.026	0.996	1.03
8	6:47	0.96	0.942	0.99	131.07	50.00	6.152	2.347	2.62
9	8:39	0.98	0.843	0.99	79.36	50.00	0.654	0.412	1.59
10	12:55	1.00	0.900	1.00	67.56	50.00	1.593	1.179	1.35
11	16:12	1.00	0.915	1.00	92.85	50.00	0.224	0.121	1.86
12	21:33	1.00	0.904	1.00	90.07	50.00	1.578	0.876	1.80

004736

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: SVBABBLK2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SVBABBLK2

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/19/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/24/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	10	U
111-91-1	bis(2-Chloroethoxy)Methane	50	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	50	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethyl Phthalate	50	U
208-96-8	Acenaphthylene	10	U
		10	U

004737

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: SVBABBLK2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SVBABBLK2

Level: (low/med) LOW Date Received: _____

Moisture: not dec. ____ dec. ____ Date Extracted: 08/19/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/24/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

004738

004737

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: SVBABBLK2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SVBABBLK2

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/19/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/24/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

Number TICs found: 0

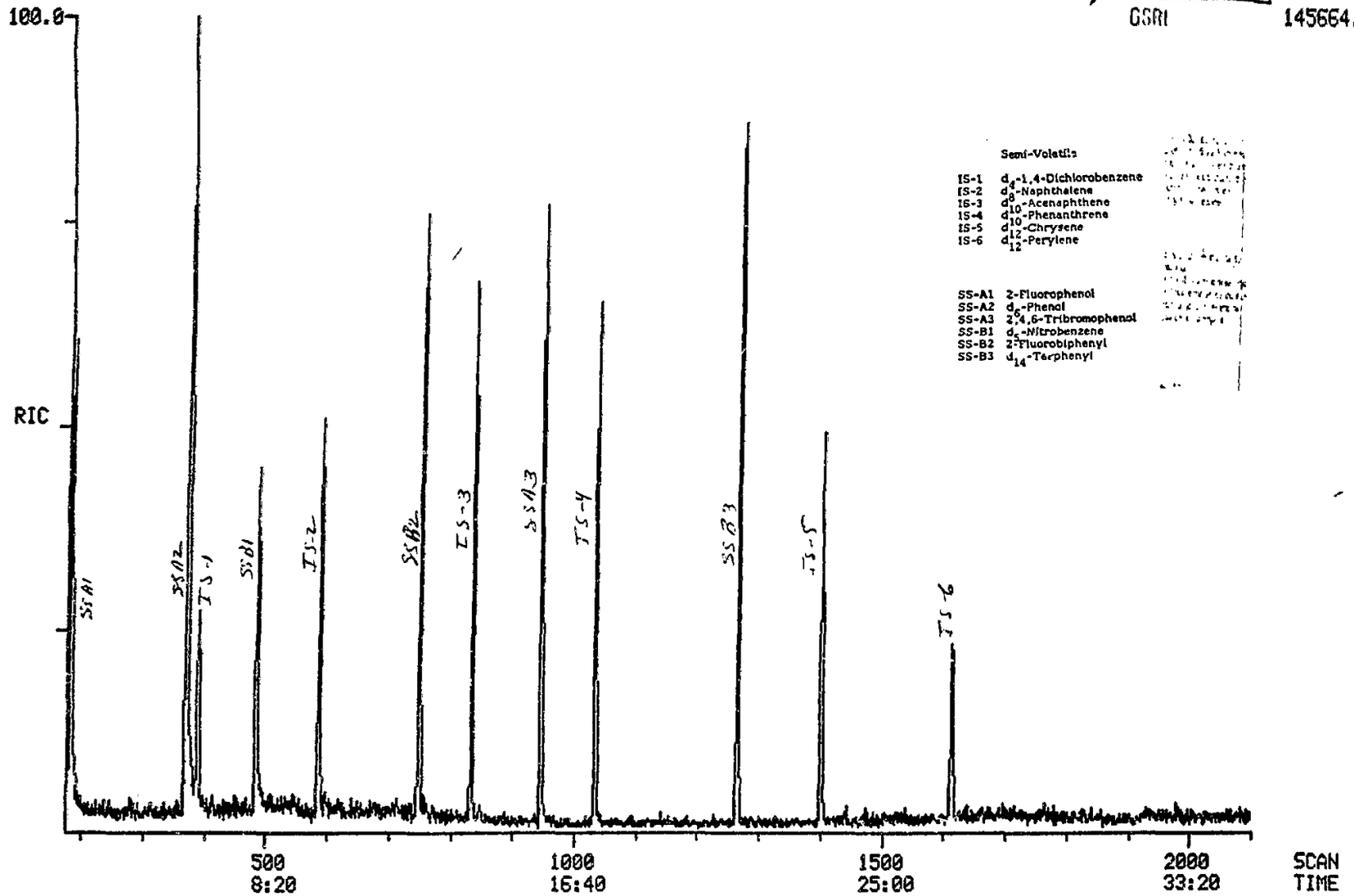
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

004739

RIC DATA: SVBABBLK2 #1 SCANS 175 TO 2100
08/24/87 20:43:00 CALI: SVBABBLK2 #1
SAMPLE: SBLK BAB BLANK#2 LOW WATER CASE:7770 (for reextr)
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

REVIEWED
AUG 2 1987
GSRI 145664.



Semi-Volatils

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 d_6-Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004740

Quantitation Report File: SVBABBLK2

Data: SVBABBLK2.TI
08/24/87 20:43:00
Sample: SBLK BAB BLANK#2 LOW WATER CASE:7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.016
Submitted by: EPA Analyst: SA Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	390	6:30	1	1.000	A BB	29071.	40.000 UG/L	4.64
2	136	587	9:47	2	1.000	A BV	111902.	40.000 UG/L	4.64
3	164	835	13:55	3	1.000	A BB	68966.	40.000 UG/L	4.64
4	188	1034	17:14	4	1.000	A BB	115848.	40.000 UG/L	4.64
5	240	1402	23:22	5	1.000	A BB	84463.	40.000 UG/L	4.64
6	264	1614	26:54	6	1.000	A BB	48002.	40.000 UG/L	4.64
7	112	182	3:02	1	0.467	A BB	122367.	138.120 UG/L	16.03
8	99	372	6:12	1	0.954	A BB	245711.	136.566 UG/L	15.85
9	82	486	8:06	2	0.828	A BB	77646.	64.016 UG/L	7.43
10	172	750	12:30	3	0.898	A BV	119141.	60.225 UG/L	6.99
11	330	946	15:46	4	0.915	A BB	46857.	141.152 UG/L	16.39
12	244	1266	21:06	5	0.903	A BB	153065.	81.322 UG/L	9.44

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:42	0.97	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	9:50	0.99	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	13:55	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:23	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	26:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:20	0.91	0.498	0.94	138.12	50.00	3.367	1.219	2.76
8	6:26	0.96	0.960	0.99	136.57	50.00	6.762	2.476	2.73
9	8:12	0.99	0.834	0.99	64.02	50.00	0.555	0.434	1.28
10	12:30	1.00	0.898	1.00	60.22	50.00	1.382	1.147	1.20
11	15:46	1.00	0.914	1.00	141.15	50.00	0.324	0.115	2.82
12	21:05	1.00	0.902	1.00	81.32	50.00	1.449	0.891	1.63

004741

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD259MSRE

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BAB01MS

Sample wt/vol: 500 (g/mL) ML Lab File ID: SVBAB01MS

Level: (low/med) LOW Date Received: 08/05/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/19/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/24/87

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/kg) UG/L

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U

004742

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD259MSRE

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BAB01MS

Sample wt/vol: 500 (g/mL) ML Lab File ID: SVBAB01MS

Level: (low/med) LOW Date Received: 08/05/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/19/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/24/87

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

004743

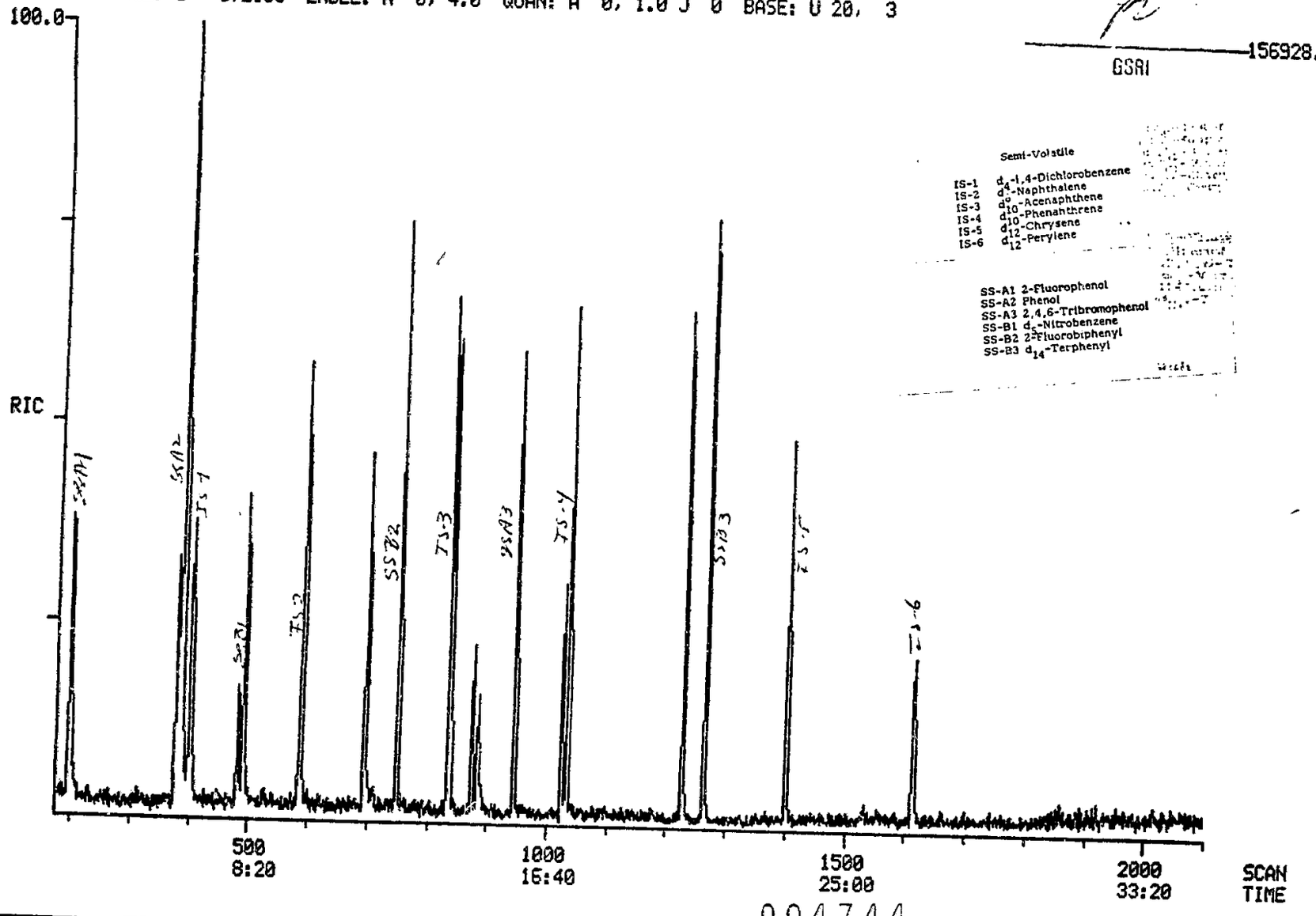
RIC
08/24/87 21:27:00
SAMPLE: FD259MS26 CASE:7770
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: SVBAB01MS #1
CALI: SVBAB01MS #1

SCANS 175 TO 2100

REVIEWED
AUG 2 4 1987
GSRI

156928.



Semi-Volatile

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004744

Quantitation Report File: SVBAB01MS

Data: SVBAB01MS.TI
08/24/87 21:27:00
Sample: FD259MS CASE: 7770
Conds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.016
Submitted by: EPA Analyst: SA Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 2.000
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)
13	C315	PHENOL*	
14	C330	2-CHLOROPHENOL	
15	C340	14DICHLOROBENZENE*	
16	C370	NITROSOPROPYLAMINE**	
17	C445	1,2,4-TRICHLOROBENZENE	
18	C465	4CHLORO3METHYLPHENOL*	
19	C550	ACENAPTHENE*	
20	C560	4NITROPHENOL**	
21	C570	2,4-DINITROTOLUENE	
22	C635	PENTACHLOROPHENOL*	
23	C713	PYRENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	402	6:42	1	1.000	A BB	30403.	80.000 UG/L	3.14
2	136	590	9:50	2	1.000	A BV	118756.	80.000 UG/L	3.14
3	164	835	13:55	3	1.000	A BB	71568.	80.000 UG/L	3.14
4	188	1035	17:15	4	1.000	A BB	120771.	80.000 UG/L	3.14
5	240	1402	23:22	5	1.000	A BB	89815.	80.000 UG/L	3.14
6	264	1615	26:55	6	1.000	A BB	50720.	80.000 UG/L	3.14
7	112	199	3:19	1	0.495	A BB	94068.	203.052 UG/L	7.98
8	99	386	6:26	1	0.960	A BB	214223.	227.697 UG/L	8.95
9	82	492	8:12	2	0.834	A BV	78660.	122.218 UG/L	4.80
10	172	751	12:31	3	0.899	A BB	116360.	113.361 UG/L	4.46
11	330	946	15:46	4	0.914	A BB	41721.	241.114 UG/L	9.48
12	244	1265	21:05	5	0.902	A BB	139086.	139.017 UG/L	5.46
13	94	388	6:28	1	0.965	A BB	90163.	124.031 UG/L	4.87
14	128	379	6:19	1	0.943	A BB	72658.	127.593 UG/L	5.01
15	146	404	6:44	1	1.005	A BB	27682.	48.684 UG/L	1.91
16	130	483	8:03	1	1.201	A BB	5761.	52.294 UG/L	2.06
17	180	587	9:47	2	0.995	A BB	25465.	54.068 UG/L	2.12
18	107	696	11:36	2	1.180	A BB	56896.	115.238 UG/L	4.53
19	154	839	13:59	3	1.005	A BB	69389.	73.996 UG/L	2.91
20	109	884	14:44	3	1.059	A BB	14370.	147.432 UG/L	5.79

004745

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
21	165	875	14:35	3	1.048	A BB	27785.	85.527 UG/L	3.36
22	266	1025	17:05	4	0.990	A BB	21819.	100.672 UG/L	3.96
23	202	1229	20:29	5	0.877	A BB	128391.	88.519 UG/L	3.48

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	6:42	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
2	9:50	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
3	13:55	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
4	17:15	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
5	23:23	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
6	26:58	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
7	3:20	0.99	0.498	0.99	203.05	50.00	4.950	1.219	4.06
8	6:26	1.00	0.960	1.00	227.70	50.00	11.274	2.476	4.55
9	8:12	1.00	0.834	1.00	122.22	50.00	1.060	0.434	2.44
10	12:30	1.00	0.898	1.00	113.36	50.00	2.601	1.147	2.27
11	15:46	1.00	0.914	1.00	241.11	50.00	0.553	0.115	4.82
12	21:05	1.00	0.902	1.00	139.02	50.00	2.478	0.891	2.78
13	6:28	1.00	0.965	1.00	124.03	50.00	4.745	1.913	2.48
14	6:20	1.00	0.945	1.00	127.59	50.00	3.824	1.498	2.55
15	6:45	1.00	1.007	1.00	48.68	50.00	1.457	1.496	0.97
16	8:05	1.00	1.206	1.00	52.29	50.00	0.303	0.290	1.05
17	9:47	1.00	0.995	1.00	54.07	50.00	0.343	0.317	1.08
18	11:36	1.00	1.180	1.00	115.24	50.00	0.767	0.333	2.30
19	13:59	1.00	1.005	1.00	74.00	50.00	1.551	1.048	1.48
20	14:45	1.00	1.060	1.00	147.43	50.00	0.321	0.109	2.95
21	14:35	1.00	1.048	1.00	85.53	50.00	0.621	0.363	1.71
22	17:05	1.00	0.990	1.00	100.67	50.00	0.289	0.144	2.01
23	20:29	1.00	0.876	1.00	88.52	50.00	2.287	1.292	1.77

Case 7770 SUBA Bolms

004746

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:
Inst ID: C
Lab ID: CP080587A

Laboratory: GSRI
Sens Date: 08/05/87
Cali Date: 6/25/87

Contract: 68-01-7141
Sens Time: 10:28:00
Analyst: GK

Data release authorized by:

M/E	Ion Abundance Criteria	Spec # 481	
51	30 to 60% of mass 198	31.26	
68	less than 2% of mass 69	0.00	(0.00) 1
69	mass 69 relative abundance	38.38	
70	less than 2% of mass 69	0.00	(0.00) 1
127	40 TO 60% of mass 198	51.46	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.57	
275	10 TO 30% of mass 198	25.77	
365	greater than 1% of mass 198	2.03	
441	less than mass 443	11.26	
442	greater than 40% of mass 198	87.56	
443	17 TO 23% of mass 442	16.36	(18.68) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

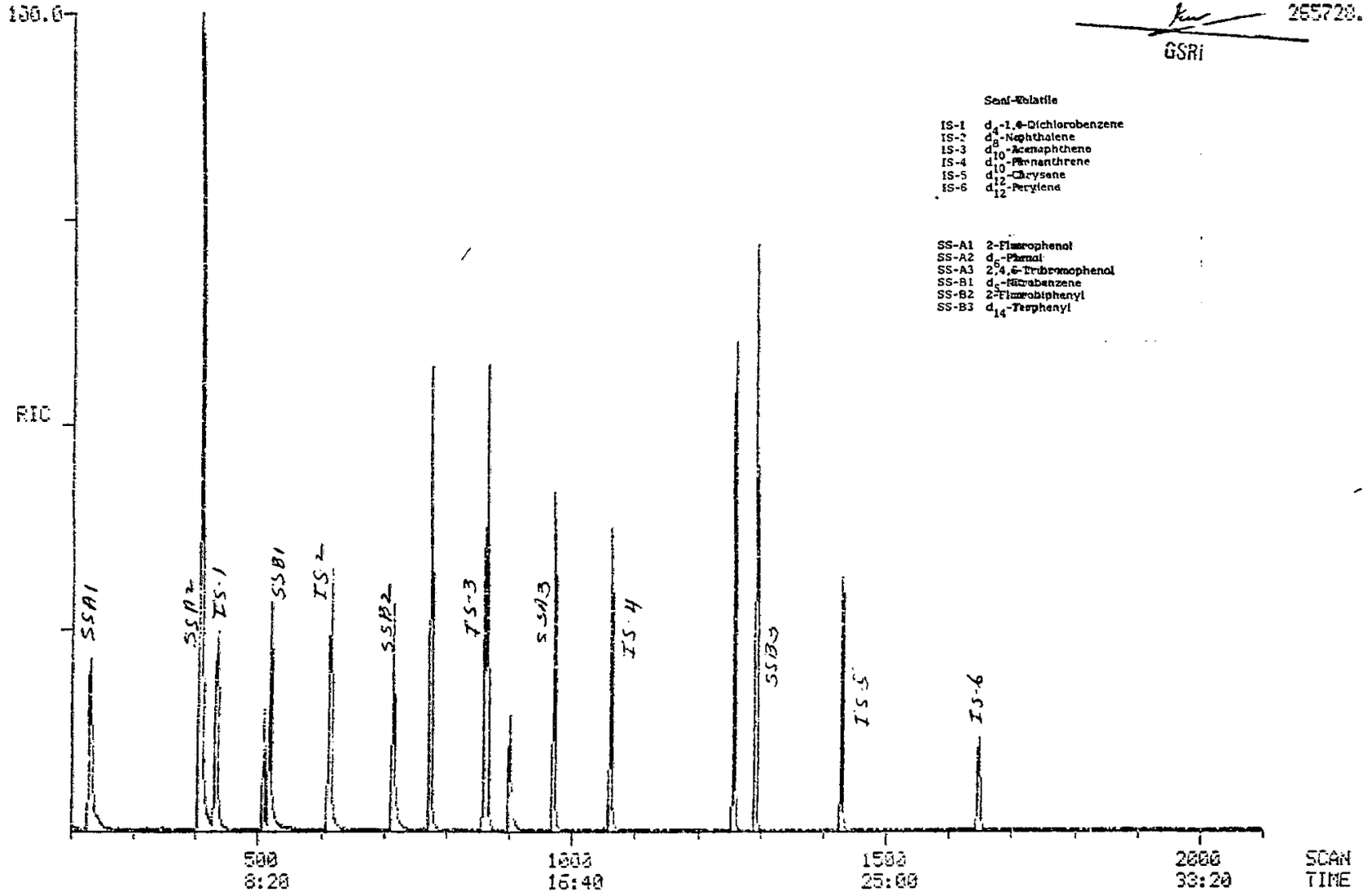
004725

RIC
08/14/87 16:21:00
SAMPLE: FD25GMS CASE:7770
CONDS.: 45/4/300012 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 DOSE: 0 23. 3

DATA: SVBAB02MS #1
CALI: SVBAB02MS #1

SCANS 200 TO 2100

REVIEWED
AUG 1 8 1987
GSRI
265720.



Semi-Volatile

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 d_6-Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

Quantitation Report File: SVBAB02MS

Data: SVBAB02MS.TI
08/14/87 16:21:00
Sample: FD259MS CASE:7770
Cond.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
Formula: Instrument: C Weight: 0.008
Submitted by: EPA Analyst: SA Acct. No.: 62003020

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 2.000
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)
13	C315	PHENOL*	
14	C330	2-CHLOROPHENOL	
15	C340	14DICHLORODBENZENE*	
16	C370	NITROSOPROPYLAMINE**	
17	C445	1,2,4-TRICHLOROBENZENE	
18	C465	4CHLORO3METHYLPHENOL*	
19	C550	ACENAPTHENE*	
20	C570	2,4-DINITROTOLUENE	
21	C715	PYRENE	
22	C560	4NITROPHENOL**	
23	C635	PENTACHLOROPHENOL*	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	433	7:13	1	1.000	A BB	35812.	80.000 UG/L	2.86
2	136	615	10:15	2	1.000	A BB	123810.	80.000 UG/L	2.86
3	164	861	14:21	3	1.000	A BB	79845.	80.000 UG/L	2.86
4	188	1062	17:42	4	1.000	A BB	134492.	80.000 UG/L	2.86
5	240	1430	23:50	5	1.000	A BB	107255.	80.000 UG/L	2.86
6	264	1648	27:28	6	1.000	A BB	57012.	80.000 UG/L	2.86
7	112	231	3:51	1	0.533	A BB	110206.	247.114 UG/L	8.84
8	99	408	6:48	1	0.942	A BB	287789.	273.939 UG/L	9.80
9	82	519	8:39	2	0.844	A BB	102533.	160.852 UG/L	5.76
10	172	775	12:55	3	0.900	A BV	177537.	150.868 UG/L	5.40
11	330	971	16:11	4	0.914	A BB	51659.	254.292 UG/L	9.10
12	244	1293	21:33	5	0.904	A BB	226544.	192.850 UG/L	6.90
13	94	409	6:49	1	0.945	A BB	114396.	146.371 UG/L	5.24
14	128	408	6:48	1	0.942	A BB	92298.	149.979 UG/L	5.37
15	146	435	7:15	1	1.005	A BB	43172.	66.054 UG/L	2.36
16	130	509	8:29	1	1.176	A BB	10063.	90.239 UG/L	3.23
17	180	612	10:12	2	0.995	A BB	40409.	82.246 UG/L	2.94
18	107	714	11:54	2	1.161	A BB	72025.	149.910 UG/L	5.36
19	154	865	14:25	3	1.005	A BB	108065.	103.921 UG/L	3.72
20	165	900	15:00	3	1.045	A BB	37717.	112.315 UG/L	4.02

004748

004749

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
21	202	1259	20:59	5	0.880	A BB	195715.	114.686 UG/L	4.10
22	109	908	15:08	3	1.055	M XX	1220.	14.164 UG/L	0.51
23	266	1051	17:31	4	0.990	M XX	1073.	5.107 UG/L	0.18

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:10	1.01	1.000	1.00	80.00	40.00	2.000	1.000	2.00
2	10:15	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
3	14:20	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
4	17:41	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
5	23:49	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
6	27:25	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
7	3:43	1.04	0.519	1.03	247.11	50.00	4.924	0.996	4.94
8	6:44	1.01	0.940	1.00	273.94	50.00	12.858	2.347	5.48
9	8:37	1.00	0.841	1.00	160.85	50.00	1.325	0.412	3.22
10	12:54	1.00	0.900	1.00	150.87	50.00	3.558	1.179	3.02
11	16:11	1.00	0.915	1.00	254.29	50.00	0.615	0.121	5.09
12	21:31	1.00	0.903	1.00	192.85	50.00	3.380	0.876	3.86
13	6:46	1.01	0.944	1.00	146.37	50.00	5.111	1.746	2.93
14	6:45	1.01	0.942	1.00	149.98	50.00	4.124	1.375	3.00
15	7:12	1.01	1.005	1.00	66.05	50.00	1.929	1.460	1.32
16	8:29	1.00	1.134	0.99	90.24	50.00	0.450	0.249	1.80
17	10:11	1.00	0.993	1.00	82.25	50.00	0.522	0.317	1.64
18	11:54	1.00	1.161	1.00	149.91	50.00	0.931	0.310	3.00
19	14:24	1.00	1.005	1.00	103.92	50.00	2.165	1.042	2.08
20	15:00	1.00	1.047	1.00	112.31	50.00	0.756	0.336	2.25
21	20:57	1.00	0.930	1.00	114.69	50.00	2.920	1.273	2.29
22	15:02	1.01	1.049	1.01	14.16	50.00	0.024	0.086	0.28
23	17:30	1.00	0.990	1.00	5.11	50.00	0.013	0.125	0.10

Case 7770 SUBAB02 MS

004749

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD259MSDRE

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BAB01MSD

Sample wt/vol: 500 (g/mL) ML Lab File ID: SVBAB01MSD

Level: (low/med) LOW Date Received: 08/05/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 08/19/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/24/87

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U

004750

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD259MSDRE

Lab Name: G S R I Contract: 68-01-7141

Lab Code: GULF Case No.: 7770 SAS No.: _____ SDG No.: FD259

Matrix: (soil/water) WATER Lab Sample ID: BAB01MSD

Sample wt/vol: 500 (g/mL) ML Lab File ID: SVBAB01MSD

Level: (low/med) LOW Date Received: 08/05/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/19/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/24/87

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

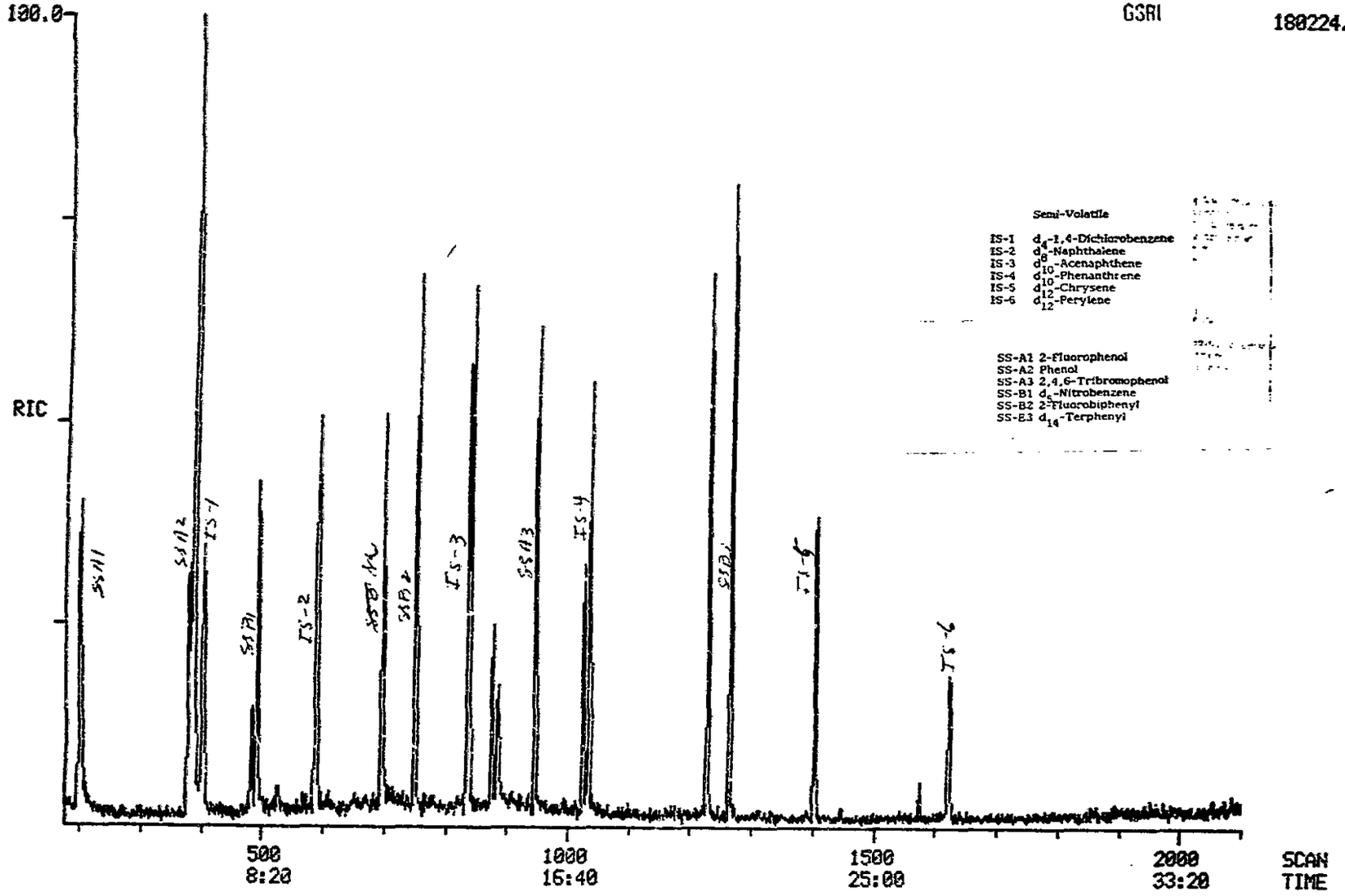
(1) - Cannot be separated from Diphenylamine

RIC
08/24/87 22:10:00
SAMPLE: FD259MSDRE CASE:7770
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: SVBAB01MSD #1 SCANS 175 TO 2100
CALI: SVBAB01MSD #1

REVIEWED
AUG 2 - 1987
GSRI

180224.



Semi-Volatile

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004752

Quantitation Report File: SVBAB01MSD

ata: SVBAB01MSD.TI
08/24/87 22:10:00
Sample: FD259MSD CASE: 7770
onds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
ormula: Instrument: C Weight: 0.016
Submitted by: EPA Analyst: SA Acct. No.: 62003020

MOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 2.000
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)
13	C315	PHENOL*	
14	C330	2-CHLOROPHENOL	
15	C340	14DICHLOROBENZENE*	
16	C370	NITROSOPROPYLAMINE**	
17	C445	1,2,4-TRICHLOROBENZENE	
18	C465	4CHLORO3METHYLPHENOL*	
19	C550	ACENAPTHENE*	
20	C560	4NITROPHENOL**	
21	C570	2,4-DINITROTOLUENE	
22	C635	PENTACHLOROPHENOL*	
23	C715	PYRENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	402	6:42	1	1.000	A BB	31392.	80.000 UG/L	2.83
2	136	590	9:50	2	1.000	A BV	118306.	80.000 UG/L	2.83
3	164	835	13:55	3	1.000	A BB	72632.	80.000 UG/L	2.83
4	188	1035	17:15	4	1.000	A BB	118988.	80.000 UG/L	2.83
5	240	1404	23:24	5	1.000	A BB	87365.	80.000 UG/L	2.83
6	264	1623	27:03	6	1.000	A BB	50732.	80.000 UG/L	2.83
7	112	200	3:20	1	0.498	A BB	110650.	231.322 UG/L	8.18
8	99	387	6:27	1	0.963	A BB	249301.	256.633 UG/L	9.07
9	82	492	8:12	2	0.834	A BB	88439.	137.935 UG/L	4.88
10	172	751	12:31	3	0.899	A BB	135121.	129.710 UG/L	4.58
11	330	946	15:46	4	0.914	A BB	46156.	270.742 UG/L	9.57
12	244	1265	21:05	5	0.901	A BB	158476.	162.840 UG/L	5.76
13	94	388	6:28	1	0.965	A BB	103109.	137.371 UG/L	4.86
14	128	379	6:19	1	0.943	A BB	83129.	141.381 UG/L	5.00
15	146	405	6:45	1	1.007	A BB	37226.	63.407 UG/L	2.24
16	130	484	8:04	1	1.204	A BB	5513.	48.466 UG/L	1.71
17	180	587	9:47	2	0.995	A BB	36930.	78.710 UG/L	2.78
18	107	696	11:36	2	1.180	A BB	65592.	133.356 UG/L	4.71
19	154	839	13:59	3	1.005	A BB	80489.	84.575 UG/L	2.99
20	109	884	14:44	3	1.059	A BV	15481.	156.504 UG/L	5.53

004753

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
21	165	875	14:35	3	1.048	A BB	28775.	87.276 UG/L	3.08
22	266	1025	17:05	4	0.990	A BB	26732.	125.189 UG/L	4.42
23	202	1229	20:29	5	0.875	A BB	146449.	103.800 UG/L	3.67

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:42	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
2	9:50	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
3	13:55	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
4	17:15	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
5	23:23	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
6	26:58	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
7	3:20	1.00	0.498	1.00	231.32	50.00	5.640	1.219	4.63
8	6:26	1.00	0.960	1.00	256.63	50.00	12.706	2.476	5.13
9	8:12	1.00	0.834	1.00	137.94	50.00	1.196	0.434	2.76
10	12:30	1.00	0.898	1.00	129.71	50.00	2.977	1.147	2.59
11	15:46	1.00	0.914	1.00	270.74	50.00	0.621	0.115	5.41
12	21:05	1.00	0.902	1.00	162.84	50.00	2.902	0.891	3.26
13	6:28	1.00	0.965	1.00	137.37	50.00	5.255	1.913	2.75
14	6:20	1.00	0.945	1.00	141.38	50.00	4.237	1.498	2.83
15	6:45	1.00	1.007	1.00	63.41	50.00	1.897	1.496	1.27
16	8:05	1.00	1.206	1.00	48.47	50.00	0.281	0.290	0.97
17	9:47	1.00	0.995	1.00	78.71	50.00	0.499	0.317	1.57
18	11:36	1.00	1.180	1.00	133.36	50.00	0.887	0.333	2.67
19	13:59	1.00	1.005	1.00	84.58	50.00	1.773	1.048	1.69
20	14:45	1.00	1.060	1.00	156.50	50.00	0.341	0.109	3.13
21	14:35	1.00	1.048	1.00	87.28	50.00	0.634	0.363	1.75
22	17:05	1.00	0.990	1.00	125.19	50.00	0.359	0.144	2.50
23	20:29	1.00	0.876	1.00	103.80	50.00	2.682	1.292	2.08

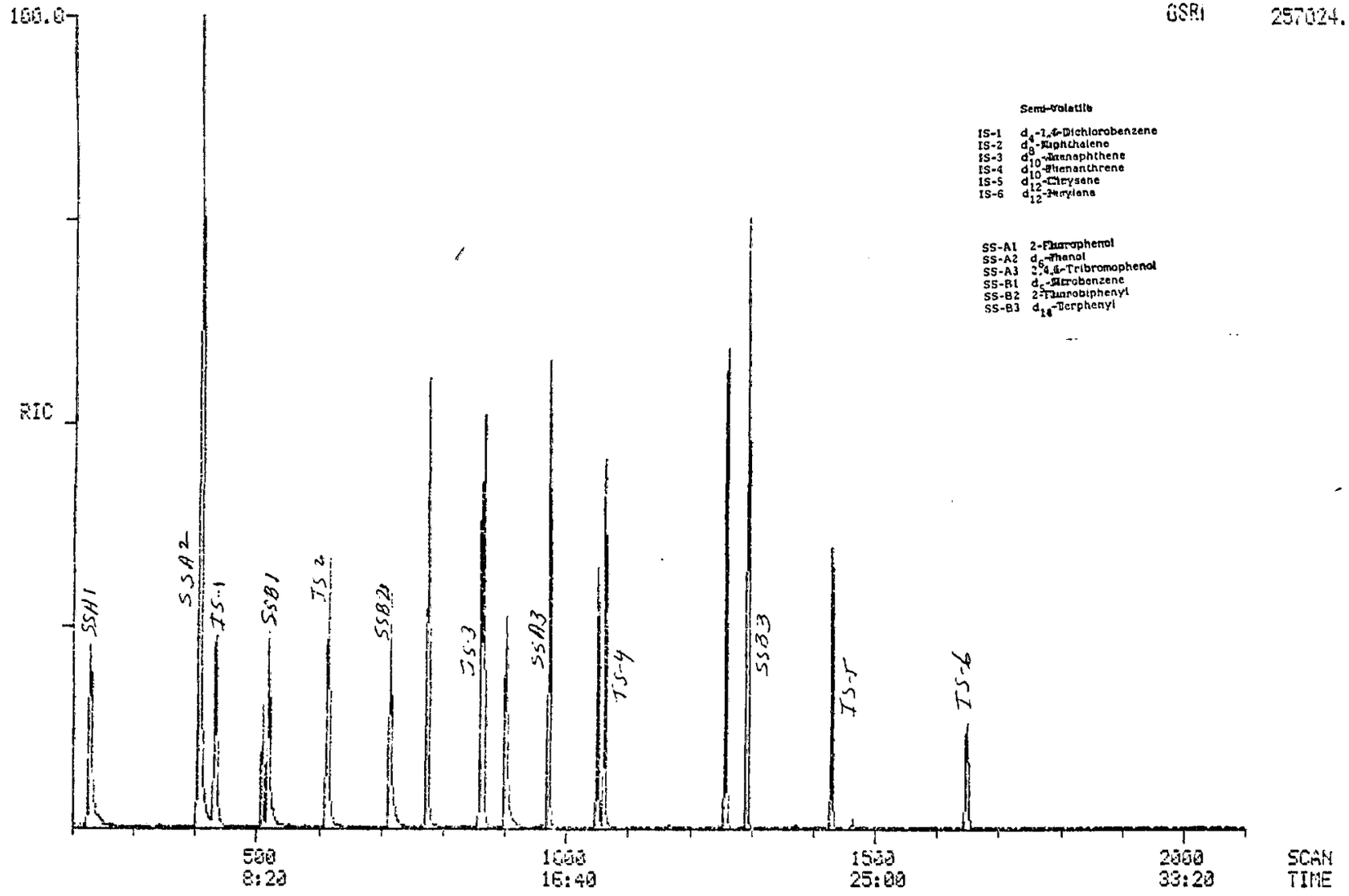
Case 7770 SUBABO1MSD

004754

RIC
08/14/87 17:04:00
SAMPLE: FD259MSD CASE:7770
CONDS.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: H 0, 1.0 J 0 BASE: U 20, 3

DATA: SVBAB02MSD #1 SCANS 200 TO 2100
CALI: SVBAB02MSD #1

REVIEWED
AUG 18 1987
GSRI 257024.



Semi-Volatile

IS-1 d_4-1,4-Dichlorobenzene
IS-2 d_8-Naphthalene
IS-3 d_{10}-Acenaphthene
IS-4 d_{10}-Phenanthrene
IS-5 d_{12}-Chrysene
IS-6 d_{12}-Perylene

SS-A1 2-Fluorophenol
SS-A2 d_6-Phenol
SS-A3 2,4,6-Tribromophenol
SS-B1 d_5-Nitrobenzene
SS-B2 2-Fluorobiphenyl
SS-B3 d_{14}-Terphenyl

004755

Quantitation Report File: SVBAB02MSD

ata: SVBAB02MSD.TI
08/14/87 17:04:00
Sample: FD259MSD CASE: 7770
onds.: 45/4/300@12 DB-5 FSCC 1MICRON 30METERS
ormula: Instrument: C Weight: 0.008
Submitted by: EPA Analyst: SA Acct. No.: 62003020

MOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 2.000
Resp. fac. from Library Entry

No	Name		
1	CI30	D4-1,4 DICHLOROBENZENE	(IS-1)
2	CI40	D8-NAPHTHALENE	(IS-2)
3	CI50	D10-ACENAPHTHENE	(IS-3)
4	CI60	D10-PHENANTHRENE	(IS-4)
5	CI70	D12-CHRYSENE	(IS-5)
6	CI75	D12-PERYLENE	(IS-6)
7	CS50	2-FLUOROPHENOL	(SS-A1)
8	CS45	D6-PHENOL	(SS-A2)
9	CS20	D5-NITROBENZENE	(SS-B1)
10	CS25	2-FLUOROBIPHENYL	(SS-B2)
11	CS55	2,4,6-TRIBROMOPHENOL	(SS-A3)
12	CS30	D14-P-TERPHENYL	(SS-B3)
13	C315	PHENOL*	
14	C330	2-CHLOROPHENOL	
15	C340	14DICHLOROBENZENE*	
16	C370	NITROSOPROPYLAMINE**	
17	C445	1,2,4-TRICHLOROBENZENE	
18	C465	4CHLOROJMETHYLPHENOL*	
19	C550	ACENAPTHENE*	
20	C560	4NITROPHENOL**	
21	C570	2,4-DINITROTOLUENE	
22	C635	PENTACHLOROPHENOL*	
23	C715	PYRENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	432	7:12	1	1.000	A BB	36805.	80.000 UG/L	2.63
2	136	615	10:15	2	1.000	A BB	127314.	80.000 UG/L	2.63
3	164	861	14:21	3	1.000	A BB	84917.	80.000 UG/L	2.63
4	188	1062	17:42	4	1.000	A BB	140908.	80.000 UG/L	2.63
5	240	1430	23:50	5	1.000	A BB	111663.	80.000 UG/L	2.63
6	264	1649	27:29	6	1.000	A BB	63255.	80.000 UG/L	2.63
7	112	229	3:49	1	0.530	A BB	114536	249.894 UG/L	8.20
8	99	407	6.47	1	0.942	A BB	280362.	259.669 UG/L	8.52
9	82	518	8:38	2	0.842	A BB	87629.	133.687 UG/L	4.39
10	172	775	12:55	3	0.900	A BV	165950.	132.599 UG/L	4.35
11	330	972	16:12	4	0.915	A BB	62536.	293.817 UG/L	9.64
12	244	1293	21:33	5	0.904	A BB	236668.	193.515 UG/L	6.35
13	94	408	6:48	1	0.944	A BB	108573.	135.172 UG/L	4.44
14	128	407	6:47	1	0.942	A BB	88975.	140.679 UG/L	4.62
15	146	434	7:14	1	1.005	A BB	34832.	51.856 UG/L	1.70
16	130	509	8:29	1	1.178	A BB	9588.	83.660 UG/L	2.75
17	180	612	10:12	2	0.995	A BB	34061.	67.417 UG/L	2.21
18	107	714	11:54	2	1.161	A BB	70988.	143.684 UG/L	4.71
19	154	865	14:25	3	1.005	A BB	99480.	89.951 UG/L	2.95
20	109	901	15:01	3	1.046	A BB	16600.	181.217 UG/L	5.95

004756

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
21	165	900	15:00	3	1.045	A BB	39201.	109.762 UG/L	3.60
22	266	1050	17:30	4	0.989	A BB	41193.	187.147 UG/L	6.14
23	202	1259	20:59	5	0.880	A BB	202278.	113.853 UG/L	3.74

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:10	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
2	10:15	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
3	14:20	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
4	17:41	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
5	23:49	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
6	27:25	1.00	1.000	1.00	80.00	40.00	2.000	1.000	2.00
7	3:43	1.03	0.519	1.02	249.89	50.00	4.979	0.996	5.00
8	6:44	1.01	0.940	1.00	259.67	50.00	12.188	2.347	5.19
9	8:37	1.00	0.841	1.00	133.69	50.00	1.101	0.412	2.67
10	12:54	1.00	0.900	1.00	132.60	50.00	3.127	1.179	2.65
11	16:11	1.00	0.915	1.00	293.82	50.00	0.710	0.121	5.88
12	21:31	1.00	0.903	1.00	193.52	50.00	3.391	0.876	3.87
13	6:46	1.00	0.944	1.00	135.17	50.00	4.720	1.746	2.70
14	6:45	1.00	0.942	1.00	140.68	50.00	3.868	1.375	2.81
15	7:12	1.00	1.005	1.00	51.86	50.00	1.514	1.460	1.04
16	8:29	1.00	1.184	1.00	83.66	50.00	0.417	0.249	1.67
17	10:11	1.00	0.993	1.00	67.42	50.00	0.428	0.317	1.35
18	11:54	1.00	1.161	1.00	143.68	50.00	0.892	0.310	2.87
19	14:24	1.00	1.005	1.00	89.95	50.00	1.874	1.042	1.80
20	15:02	1.00	1.049	1.00	181.22	50.00	0.313	0.086	3.62
21	15:00	1.00	1.047	1.00	109.76	50.00	0.739	0.336	2.20
22	17:30	1.00	0.990	1.00	187.15	50.00	0.468	0.125	3.74
23	20:57	1.00	0.880	1.00	113.85	50.00	2.893	1.273	2.28

Case 7770 SUBA B02MSD FD-259MSD

004757

gsri GULF SOUTH RESEARCH INSTITUTE
Post Office Box 26518 New Orleans, Louisiana 70186 Telephone (504) 283-4223

Semivolatile Fraction

Sample Preparation Packet

Case 7770

004758

E[redacted]DE [redacted]BAB[redacted] PA[redacted] / [redacted] 2

CASE 7770

CONTRACT NO. 68-01-7141

DATE RECEIVED 8/5/87

EXTRACTION DATE 8/5/87

SAMPLE EXTRACTION/ANALYSIS LOG

FRACTION: SV (✓)

PEST/PCB ( )

ACD 43 R1 12/86

	GSRI ID	CLIENT ID	MATRIX/ LEVEL	pH	% MOIST	DWF	I AMT EXTD g/ml	II FINAL EXTD VOL (ml)	III GPC VOL (ml)	IV GPC ELUTE VOL (ml)	V GPC VOL CONC (ml)	VI GPC FINAL CONC VOL (ml)	VII VOL FOR SV/P (ml)	VIII AL INIT VOL (ml)	IX AL FINAL VOL (ml)	X FINAL PROCESS VOL (ml)	SCREEN Y/N	M.S. (ul) SV/P	SURR (ul) SV/P	ANALYSIS DIL	ANAL DATE	ANAL INIT	DLF	COMMENTS
	BAB-02	FF-259	W/L	6.87	—	—	1000	1	—	—	—	—	—	—	—	1	N	—	100	NO	8/14	SA	1	
	BAB-02MS			6.87			500											AN-100 BN-50			8/14	SA	2	
	BAB-02MSD			6.87			500											AN-100 BN-50			8/14	SA	2	
	BAB-04	FF-260		7.84			1000											—			8/14	SA	1	
	SVBABLWB1	—		—	—	—	1000		—	—	—	—	—	—	—	—	—	—	100		8/14	SA	1	

Initials of Extraction Leader PPL Assistants: HFE [illegible] ___

Initials of Sample Cleanup Leader ___ Assistants: ___ ___ ___

SURROGATES ID/CONC: 865-67-SVSS

Initials of Surrogate Spiker PPL Verifier [illegible]

Initials of Matrix Spike Spiker PPL Verifier [illegible]

MATRIX SPIKE SOLN ID/CONC: 865-66-AMS-1000
865-36-BNMS-1000

EXPLANATION OF COMMENTS: ___

004759

EPISODE BABRE

CASE 7770

CONTRACT NO. 68-01-7141

DATE RECEIVED 8/5/87

EXTRACTION DATE 8/19/87

SAMPLE EXTRACTION/ANALYSIS LOG

PAGE 2 OF 2

FRACTION: SV (✓)

PEST/PCB ( )

ACD 43 R1 12/86

GSRI ID	CLIENT ID	MATRIX/LEVEL	pH	% MOIST	DWF	I AMT EXTD g/ml	II FINAL EXTD VOL (ml)	III GPC VOL (ml)	IV GPC ELUTE VOL (ml)	V GPC VOL CONC (ml)	VI GPC FINAL CONC VOL (ml)	VII VOL FOR SV/P (ml)	VIII AL INIT VOL (ml)	IX AL FINAL VOL (ml)	X FINAL PROCESS VOL (ml)	SCREEN Y/N	M.S. (ul) SV/P	SURR (ul) SV/P	ANALYSIS DIL	ANAL DATE	ANAL INIT	QLF NF	COMMENTS
BABLWB2 RE	—	W/L	—	—	—	1000	1	—	—	—	—	—	—	—	1	N		100	NO	8/24	SA	1	
BAB-01 MS RE	FD-259	↓	6.87	↓	↓	500	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	AC 100 BN 50	↓	↓	↓	SA	2	
BAB-01 MSD RE	FD-259	↓	↓	↓	↓	500	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	AC 100 BN 50	↓	↓	↓	SA	2	

Initials of Extraction Leader MG Assistants: MG KJK ___

Initials of Sample Cleanup Leader / ___ Assistants: ___ ___ ___

SURROGATES ID/CONC: 865-67-SUSS

Initials of Surrogate Spiker MG Verifier KJK

Initials of Matrix Spike Spiker MG Verifier KJK

MATRIX SPIKE SOLN ID/CONC: 865-77-AMS-1000
865-36-BNMS-1000

EXPLANATION OF COMMENTS:

004760