Subject: SF5883 (Export Packaging) - Semivolatile Organic Analysis

To : Files

From : Babu Paruchuri BP

Date : 03/14/89

Five water samples (89FS09S75-77, D75 and R08) were analyzed for semi-volatile organics (ABNs) by the Region V laboratory using the test procedure # 625 NS. The laboratory produced data of acceptable quality.

The following comments apply to the quality control (QC) requirements as specified by the Central Region Laboratory (CRL) test method:

- The site samples were extracted within seven days of sample receipt. The sample extracts were analyzed within 21 days of sample collection.

- Prior to the sample analysis, the GC/MS instrument was checked to determine if : 1) acceptable performance criteria (see Table 5, SOP) were achieved for DFTPP and 2) the tailing factor of PCP was less than 5.

- The surrogate spike recovery data were evaluated to determine the method accuracy of each sample. No outliers were observed.

- The field duplicate sample data were evaluated to determine the precision of the sample collection procedures. Since the duplicates were free from contaminants, no conclusions could be drawn on the precision of the environmental measurement.

- The matrix spike/matrix spike duplicate (MS/MSD) recovery data were evaluated for the accuracy and precision of the test method. The following problems were observed:

  - 1,4-DCB in MSD yielded 99% recovery (QC limit: 36% - 97%).
  - 2,4-Dinitrotoluene in MS and MSD yielded 97% and 102%, respectively (QC limit: 24% - 96%).

  The laboratory evaluated this problem and implemented a corrective action by using a new MS/MSD spiking solution for the new data sets.

- The initial calibration data were valid (i. e., %RSD: <35%) for the target compounds detected in the site samples.

The following comments apply to the sample analysis results and overall quality of the data:

- The samples were free from organic contamination.

- The overall quality of the data was acceptable.

ATTACHMENT II

DSN #: SF 5883

QC SUMMARY REPORTS

1. SEMIVOLATILE ORGANICS SURROGATE RECOVERY DATA
2. SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY DATA
3. SEMIVOLATILE GC/MS TUNING AND MASS CALIBRATION - DFTPP CRITERIA
4. SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
5. ~~SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK DATA~~
6. SEMIVOLATILE ORGANICS INTERNAL STANDARD AREA SUMMARY DATA

Comments:
Except for the MS/MSD spike recovery data, no other problems were observed. The MS/MSD spike recovery data are slightly (e.g., acceptance limit is 24%-96%; actual recovery is 97%) outside the QC acceptance limits. The lab is in the process of checking the accuracy of the MS/MSD spiking solution. BP 3/14/89

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: 5SCRL US EPA 312/353-9065 Contract: Y905

Lab Code: CHICAGOIL **Case No.:** SF 5883 **SAS No.:** EXPTPCK **SDG No.:** TFA 302

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	METHODBLAN	87	91	95	42	65	86		0
02	89FS09S76M	72	73	78	29	40	78		0
03	89FS09S76M	89	89	79	37	49	92		0
04	89FS09S76	52	52	50	18	26	45		0
05	89FS09S75	77	80	79	38	49	76		0
06	89FS09D75	93	95	88	45	67	97		0
07	89FS09S77	81	79	80	37	54	74		0
08	89FS09R08	98	96	88	46	67	91		0
09									
10									
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NONE

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl-d14	(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

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WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SSCRL US EPA 312/353-9065 Contract: Y905

Lab Code: CHICAGOIL Case No.: SF 5883 SAS No.: EXPTPCK SDG No.: TFA 302

Matrix Spike - EPA Sample No.: 89FS09S76

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	86.00	0.00	26.00	29	12-110
2-Chlorophenol	110.00	0.00	69.00	65	27-123
1,4-Dichlorobenzene	75.00	0.00	59.00	78	36- 97
1,2,4-Trichlorobenzene	98.00	0.00	70.00	71	39- 98
4-Chloro-3-methylphenol	110.00	0.00	58.00	50	23-110
Acenaphthene	94.00	0.00	73.00	77	46-118
4-Nitrophenol	76.00	0.00	40.00	52	10-110
2,4-Dinitrotoluene	76.00	0.00	74.00	97 *	24- 96
Pentachlorophenol	110.00	0.00	60.00	52	9-103
Pyrene	88.00	0.00	73.00	82	26-127
	0.00	0.00	0.00	**** *	0- 0

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	86.00	35.00	40	31	42	12-110
2-Chlorophenol	110.00	89.00	84	25	40	27-123
1,4-Dichlorobenzene	75.00	75.00	99 *	23	28	36- 97
1,2,4-Trichlorobenzene	98.00	87.00	88	21	28	39- 98
4-Chloro-3-methylphenol	110.00	74.00	64	24	42	23-110
Acenaphthene	94.00	89.00	94	19	31	46-118
4-Nitrophenol	76.00	51.00	67	25	50	10-110
2,4-Dinitrotoluene	76.00	78.00	102 *	5	38	24- 96
Pentachlorophenol	110.00	46.00	40	26	50	9-103
Pyrene	88.00	77.00	87	5	31	26-127
	0.00	0.00	**** *	0	0	0- 0

(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: 0 out of 11 outside limits
Spike Recovery: ~~8~~ 3 out of ~~22~~ 20 outside limits

COMMENTS: Actual concentration of 2,4-dinitrotoluene should be determined ASAP to determine the probable cause(s) for higher recoveries. [illegible] - 3/14/89

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

Lab Name: 5SCRL US EPA 312/353-9065 Contract: Y905

Lab Code: CHICAGOIL Case No.: SF 5883 SAS No.: SF 5888 SDG No.: TFA 302

Lab File ID: >BP001 DFTPP Injection Date: 3/08/89

Instrument ID: 96 2 DFTPP Injection Time: 8:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.8
68	Less than 2.0% of mass 69	.9(1.3)1
69	Mass 69 relative abundance	71.
70	Less than 2.0% of mass 69	.5(.7)1
127	40.0 - 60.0% of mass 198	51.7
197	Less than 1.0% of mass 198	.5
198	Base Peak, 100% relative abundance	100.
199	5.0 - 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	23.9
365	Greater than 1.00% of mass 198	5.28
441	Present, but less than mass 443	13.2
442	Greater than 40.0% of mass 198	87.3
443	17.0 - 23.0% of mass 442	16.4(18.9)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	METHODBLANK	METHOD BLANK	>BP002	3/08/89	10:13
02	89FS09S76MS	89FS09S76MS	>BP003	3/08/89	11:06
03	89FS09S76MD	89FS09S76MD	>BP004	3/08/89	12:00
04	89FS09S76	89FS09S76	>BP005	3/08/89	12:53
05	89FS09S75	89FS09S75	>BP006	3/08/89	13:47
06	89FS09D75	89FS09D75	>BP007	3/08/89	14:41
07	89FS09S77	89FS09S77	>BP008	3/08/89	15:35
08	89FS09R08	89FS09R08	>BP009	3/08/89	16:28
09	TXSTD100PPM	TOXSTD100PPM	>BP010	3/08/89	17:22
10	TXSTD050PPM	TOXSTD050PPM	>BP011	3/08/89	18:16
11	TXSTD025PPM	TOXSTD025PPM	>BP012	3/08/89	19:10
12	METHODBLANK	METHOD BLANK	>BP013	3/08/89	20:03
13	89FZ09S89MS	89FZ09S89MS	>BP014	3/08/89	20:57
14	89FZ09S89MD	89FZ09S89MD	>BP015	3/08/89	21:51
15	89FZ09S89	89FZ09S89	>BP016	3/08/89	22:44
16	89FZ09S90	89FZ09S90	>BP017	3/08/89	23:38
17	89FZ09B90	89FZ09B90	>BP018	3/09/89	0:32
18	89FZ09S91	89FZ09S91	>BP019	3/09/89	1:26
19	89FZ09R02	89FZ09R02	>BP020	3/09/89	2:19
20					
21					
22					

SF 5883

OK 3/14/89

FORM V SV 1/87 Rev.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SSCRL US EPA 312/353-9065 Contract: Y905

Lab Code: CHICAGOIL Case No.: SF 5883 SAS No.: SF 5888 SDG No.: TFA 302

Instrument ID: 96 2 Calibration Date(s): 03/08/89 03/08/89

35% BP 3/14/89

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = ~~30~~.0%

LAB FILE ID: RRF25 =>BP012 RRF50 =>BP011
RRF100=>BP010

COMPOUND	RRF25	RRF50	RRF100			$\overline{RRF}$	% RSD
Phenol *	1.023	.996	.676	0.000	0.000	.898	21.4*
bis(2-Chloroethyl)ether	.942	.933	.627	0.000	0.000	.834	21.5
2-Chlorophenol	.935	.895	.637	0.000	0.000	.822	19.7
1,3-Dichlorobenzene	1.150	1.082	.788	0.000	0.000	1.007	19.1
1,4-Dichlorobenzene *	1.263	1.185	.862	0.000	0.000	1.103	19.3*
Benzyl alcohol	.507	.526	.394	0.000	0.000	.475	14.9
1,2-Dichlorobenzene	1.196	1.134	.831	0.000	0.000	1.054	18.6
2-Methylphenol	.760	.795	.602	0.000	0.000	.719	14.3
bis(2-chloroisopropyl)ether	.290	.291	.207	0.000	0.000	.263	18.4
4-Methylphenol	.800	.813	.574	0.000	0.000	.729	18.5
N-Nitroso-di-n-propylamine #	.847	.829	.597	0.000	0.000	.758	18.4#
Hexachloroethane	.469	.442	.316	0.000	0.000	.409	19.9
Nitrobenzene	.561	.544	.393	0.000	0.000	.499	18.5
Isophorone	2.196	2.170	1.477	0.000	0.000	1.948	20.9
2-Nitrophenol *	.537	.578	.424	0.000	0.000	.513	15.6*
2,4-Dimethylphenol	.721	.762	.533	0.000	0.000	.672	18.2
Benzoic acid	.369	.564	.499	0.000	0.000	.477	20.8
bis(2-Chloroethoxy)methane	1.339	1.372	.984	0.000	0.000	1.231	17.5
2,4-Dichlorophenol *	.831	.900	.639	0.000	0.000	.790	17.1*
1,2,4-Trichlorobenzene	1.010	1.054	.730	0.000	0.000	.932	18.9
Naphthalene	3.101	3.158	2.124	0.000	0.000	2.794	20.8
4-Chloroaniline	.444	.517	.340	0.000	0.000	.433	20.5
Hexachlorobutadiene *	.639	.618	.455	0.000	0.000	.571	17.6*
4-Chloro-3-methylphenol *	.981	.946	.656	0.000	0.000	.861	20.7*
2-Methylnaphthalene	1.976	1.966	1.331	0.000	0.000	1.757	21.0
Hexachlorocyclopentadiene #	.458	.547	.388	0.000	0.000	.465	17.1#
2,4,6-Trichlorophenol *	.601	.625	.425	0.000	0.000	.550	19.9*
2,4,5-Trichlorophenol	.560	.625	.430	0.000	0.000	.538	18.5
2-Chloronaphthalene	2.059	2.049	1.322	0.000	0.000	1.810	23.4
2-Nitroaniline	.537	.633	.467	0.000	0.000	.546	15.3
Dimethylphthalate	2.217	2.226	1.487	0.000	0.000	1.977	21.4
Acenaphthylene	1.136	1.080	.653	0.000	0.000	.956	27.7
2,6-Dinitrotoluene	.161	.174	.114	0.000	0.000	.150	21.0
3-Nitroaniline	.138	.172	.115	0.000	0.000	.141	20.3
Acenaphthene *	.798	.759	.457	0.000	0.000	.671	27.8*
2,4-Dinitrophenol #	.013	.034	.046	0.000	0.000	.031	53.9#
4-Nitrophenol #	.051	.052	.067	0.000	0.000	.057	15.5#

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SSCRL US EPA 312/353-9065 Contract: Y905

Lab Code: CHICAGOIL Case No.: SF 5883 SAS No.: SF 5888 SDG No.: TFA 302

Instrument ID: 96 2 Calibration Date(s): 03/08/89 03/08/89

35%. 3/14/89

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = ~~30.0%~~

LAB FILE ID: RRF25 =>BP012 RRF50 =>BP011
RRF100=>BP010

COMPOUND	RRF25	RRF50	RRF100			$\overline{RRF}$	% RSD
Dibenzofuran	1.014	1.016	.609	0.000	0.000	.880	26.6
2,4-Dinitrotoluene	.192	.222	.156	0.000	0.000	.190	17.4
Diethylphthalate	.865	.850	.561	0.000	0.000	.759	22.6
4-Chlorophenyl-phenylether	.321	.319	.190	0.000	0.000	.276	27.1
Fluorene	.754	.730	.454	0.000	0.000	.646	25.8
4-Nitroaniline	.155	.155	.124	0.000	0.000	.144	12.5
4,6-Dinitro-2-methylphenol	.042	.064	.063	0.000	0.000	.056	22.6
N-Nitrosodiphenylamine (1) *	.135	.123	.073	0.000	0.000	.110	29.9*
4-Bromophenyl-phenylether	.166	.174	.112	0.000	0.000	.151	22.6
Hexachlorobenzene	.217	.215	.143	0.000	0.000	.191	21.9
Pentachlorophenol *	.077	.097	.075	0.000	0.000	.083	14.4*
Phenanthrene	.915	.904	.639	0.000	0.000	.820	19.1
Anthracene	.916	.903	.650	0.000	0.000	.823	18.2
Di-n-butylphthalate	1.221	1.314	1.058	0.000	0.000	1.198	10.8
Fluoranthene *	.878	.953	.750	0.000	0.000	.860	11.9*
Pyrene	.908	.998	.691	0.000	0.000	.866	18.3
Butylbenzylphthalate	.756	.861	.580	0.000	0.000	.732	19.3
Benzo(a)anthracene	1.136	1.146	.685	0.000	0.000	.989	26.6
Chrysene	1.065	1.046	.630	0.000	0.000	.914	26.9
bis(2-Ethylhexyl)phthalate	1.213	1.221	.792	0.000	0.000	1.076	22.8
Di-n-octylphthalate *	1.776	2.236	2.666	0.000	0.000	2.226	20.0*
Benzo(b)fluoranthene	1.159	1.146	1.080	0.000	0.000	1.128	3.7
Benzo(k)fluoranthene	.972	.965	1.017	0.000	0.000	.985	2.9
Benzo(a)pyrene *	.936	.953	.849	0.000	0.000	.912	6.1*
Indeno(1,2,3-cd)pyrene	.581	.417	.245	0.000	0.000	.414	40.6
Dibenzo(a,h)anthracene	.646	.396	.310	0.000	0.000	.451	38.8
Benzo(g,h,i)perylene	.539	.346	.259	0.000	0.000	.381	37.6
Nitrobenzene-d5	1.305	1.342	.892	0.000	0.000	1.180	21.1
2-Fluorobiphenyl	3.002	2.968	1.818	0.000	0.000	2.596	26.0
Terphenyl-d14	.795	.809	.559	0.000	0.000	.721	19.5
Phenol-d5	1.552	1.572	1.098	0.000	0.000	1.407	19.1
2-Fluorophenol	1.018	1.055	.734	0.000	0.000	.936	18.8
2,4,6-Tribromophenol	.150	.152	.096	0.000	0.000	.132	23.9

OK

(1) Cannot be separated from Diphenylamine

No target compounds were detected at the site. 3/14/89

FORM VI SV-2 1/87 Rev.

Select an Option <press a soft key>

GC/MS data file: >BP009::C7 Aquarius output file: ^BP009::

1 8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name:5SCRL US EPA 312/353-9065 Contract:Y905

Lab Code: CHICAGOIL Case No.: SF 5883 SAS No.: SF 5888 SDG No.: TFA 302

Lab File ID (Standard): >BP011 Date Analyzed: 3/08/89

Instrument_ID: 96 2 Time_Analyzed:

		IS1(DCB) AREA #	RT	IS2(PHN) AREA #	RT	IS3(PRY) AREA #	RT
	12_HOUR_STD	25873.	4.17	71921.	22.39	71625.	34.99
	UPPER_LIMIT	51746.		143842.		143250.	
	LOWER_LIMIT	12937.		35960.		35813.	
	EPA_SAMPLE NO.						
01	METHODBLANK	37743.	4.24	99909.	22.40	84611.	34.99
02	89FS09S76MS	37181.	4.17	103536.	22.42	97926.	34.98
03	89FS09S76MD	29231.	4.25	81643.	22.42	81403.	34.98
04	89FS09S76	26907.	4.24	75863.	22.39	82481.	34.97
05	89FS09S75	27535.	4.24	81152.	22.41	76284.	35.00
06	89FS09D75	24074.	4.18	71384.	22.40	73556.	34.98
07	89FS09S77	30171.	4.16	81606.	22.41	83134.	35.00
08	89FS09R08	24516.	4.24	72544.	22.40	71914.	34.98
09							
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OK
3/14/89

IS1 (DCB) = d4-1,4-Dichlorobenzene
IS2 (PHN) = d-10-Phenanthrene
IS3 (PRY) = d12-Perylene

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

Column used to flag internal standard area values with an asterisk

FORM VIII SV-1 1/87 Rev.

ATT. III

SF 5883

RAW DATA

INDEX

- QUANT Reports of Samples & Stds.
- TICPs of Samples
- Lib Search Results
- Misc.
- Sample Prep Info
- Batch Sequence list

:QREP,^BP002

QUANT REPORT

Operator ID: SUKWHA Quant Rev: 6 Quant Time: 890311 11:56
Output File: ^BP002::SK Injected at: 890308 10:13
Data File: >BP002::C7 Dilution Factor: 1.00000
Name: SF5883 METHOD BLANK
Misc: 030889 1.0L/1ML 52/55 BTL# 1

ID File: IDBP96::KS
Title: HP BNA STD REV E BABU 03\10\89
Last Calibration: 890310 10:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	4.25	138	37743	50.00	NG/UL	94
2)	2-Fluorophenol	2.27	26	45867	64.95	NG/UL	91
3)	Phenol-d5	3.86	116	44611	42.00	NG/UL	89
16)	d8-Naphthalene	8.11	357	148122	47.14	NG/UL	89
17)	Nitrobenzene-d5	5.85	229	77242	86.74	NG/UL	98
31)	d10-Acenaphthene	15.69	787	75417	51.50	NG/UL	96
36)	2-Fluorobiphenyl	12.99	634	178472	91.08	NG/UL	92
39)	*d-10-Phenanthrene	22.40	1168	99909	50.00	NG/UL	97
54)	2,4,6-Tribromophenol	19.48	1002	22679	85.75	NG/UL	94
62)	d12-Chrysene	32.57	1745	87491	40.87	NG/UL	96
64)	Terphenyl-d14	30.39	1621	136701	94.85	NG/UL	97
67)	Bis(2-Ethylhexyl)Phthalate	33.12	1776	2083	.97	NG/UL	87
69)	*d12-Perylene	34.99	1882	84611	50.00	NG/UL	97

* Compound is ISTD

:QREP,^BP003

QUANT REPORT

Operator ID: SUKWHA Quant Rev: 6 Quant Time: 890311 12:00
Output File: ^BP003::SK Injected at: 890308 11:06
Data File: >BP003::C7 Dilution Factor: 1.00000
Name: SF5883 89FS09S76MS
Misc: 030889 1.03/1ML 52/55 BTL# 2

ID File: IDBP96::KS
Title: HP BNA STD REV E BABU 03\10\89
Last Calibration: 890310 10:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	4.17	134	37181	50.00	NG/UL	93
2)	2-Fluorophenol	2.11	17	27757	39.90	NG/UL	92
3)	Phenol-d5	3.77	111	30389	29.05	NG/UL	91
4)	Phenol	3.80	113	17726	26.53	NG/UL	89
6)	2-Chlorophenol	3.82	114	43698	71.46	NG/UL	96
8)	1,4-Dichlorobenzene	4.21	136	49451	60.27	NG/UL	91
16)	d8-Naphthalene	8.11	357	145055	46.87	NG/UL	89
17)	Nitrobenzene-d5	5.81	227	62869	71.67	NG/UL	99
25)	1,2,4-Trichlorobenzene	8.02	352	50000	72.16	NG/UL	93
29)	4-Chloro-3-methylphenol	11.35	541	38363	59.92	NG/UL	97
31)	d10-Acenaphthene	15.70	788	74763	51.82	NG/UL	98
36)	2-Fluorobiphenyl	13.01	635	140765	72.92	NG/UL	94
39)	*d-10-Phenanthrene	22.42	1169	103536	50.00	NG/UL	99
42)	Acenaphthene	15.84	796	103953	74.80	NG/UL	97
44)	4-Nitrophenol	17.82	908	4787M	40.76	NG/UL	99
46)	2,4-Dinitrotoluene	17.29	878	29955	76.10	NG/UL	72
51)	4-Nitroaniline	19.51	1004	163	.55	NG/UL	83

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	NG/UL	98
57)	Pentachlorophenol	22.18	1159	10630	61.74	NG/UL	89
62)	d12-Chrysene	32.57	1745	94740	42.71	NG/UL	97
63)	Pyrene	29.15	1551	134269	74.89	NG/UL	90
64)	Terphenyl-d14	30.39	1621	116698	78.14	NG/UL	95
67)	Bis(2-Ethylhexyl)Phthalate	33.12	1776	1700	.76	NG/UL	85
69)	*d12-Perylene	34.98	1882	97926	50.00	NG/UL	97

* Compound is ISTD BP003

:QREP,^BP004 2

QUANT REPORT

Operator ID: SUKWHA Quant Rev: 6 Quant Time: 890311 12:04
Output File: ^BP004::SK Injected at: 890308 12:00
Data File: >BP004::C7 Dilution Factor: 1.00000
Name: SF5883 89FS09S76MD
Misc: 030889 1.03/1ML 52/55 BTL# 3

ID File: IDBP96::KS
Title: HP BNA STD REV E BABU 03\10\89
Last Calibration: 890310 10:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	4.25	142	29231	50.00	NG/UL	96
2)	2-Fluorophenol	2.19	25	27016	49.40	NG/UL	92
3)	Phenol-d5	3.86	120	30826	37.48	NG/UL	93
4)	Phenol	3.88	121	18835	35.86	NG/UL	87
6)	2-Chlorophenol	3.90	122	44222	91.98	NG/UL	98
8)	1,4-Dichlorobenzene	4.29	144	49584	76.87	NG/UL	95
16)	d8-Naphthalene	8.13	362	113914	46.81	NG/UL	87
17)	Nitrobenzene-d5	5.87	234	61299	88.88	NG/UL	97
25)	1,2,4-Trichlorobenzene	8.06	358	48722	89.44	NG/UL	92
29)	4-Chloro-3-methylphenol	11.37	546	38144	75.78	NG/UL	91
31)	d10-Acenaphthene	15.71	792	61142	53.91	NG/UL	97
36)	2-Fluorobiphenyl	13.01	639	135655	89.39	NG/UL	92
39)	*d-10-Phenanthrene	22.42	1173	81643	50.00	NG/UL	97
42)	Acenaphthene	15.85	800	100487	91.69	NG/UL	93
44)	4-Nitrophenol	17.82	912	4891M	52.82	NG/UL	98
46)	2,4-Dinitrotoluene	17.29	882	24789M	79.86	NG/UL	
54)	2,4,6-Tribromophenol	19.48	1006	19882	91.99	NG/UL	97
57)	Pentachlorophenol	22.17	1159	6424	47.32	NG/UL	95
62)	d12-Chrysene	32.57	1749	74001	42.31	NG/UL	97
63)	Pyrene	29.15	1555	112621	79.66	NG/UL	89
64)	Terphenyl-d14	30.39	1625	93126	79.07	NG/UL	95
69)	*d12-Perylene	34.98	1886	81403	50.00	NG/UL	97

* Compound is ISTD

:QREP,^BP005

QUANT REPORT

Operator ID: SUKWHA Quant Rev: 6 Quant Time: 890311 12:09
Output File: ^BP005::SK Injected at: 890308 12:53
Data File: >BP005::C7 Dilution Factor: 1.00000
Name: SF5883 89FS09S76
Misc: 030889 .99L/1ML 52/55 BTL# 4

ID File: IDBP96::KS
Title: HP BNA STD REV E BABU 03\10\89
Last Calibration: 890310 10:45

	Compound	R.T.	Scan#	Area	Conc	Units	q

1)	*d4-1,4-Dichlorobenzene	4.24	138	26907	50.00	NG/UL	95
2)	2-Fluorophenol	2.18	21	13276	26.37	NG/UL	88
3)	Phenol-d5	3.86	116	13643	18.02	NG/UL	98
16)	d8-Naphthalene	8.12	358	105059	46.90	NG/UL	91
17)	Nitrobenzene-d5	5.85	229	32927	51.87	NG/UL	99
31)	d10-Acenaphthene	15.70	788	53255	51.01	NG/UL	95
36)	2-Fluorobiphenyl	13.00	635	73086	52.32	NG/UL	96
39)	*d-10-Phenanthrene	22.39	1168	75863	50.00	NG/UL	98
54)	2,4,6-Tribromophenol	19.47	1002	9054	45.09	NG/UL	91
62)	d12-Chrysene	32.56	1745	71578	44.04	NG/UL	96
64)	Terphenyl-d14	30.36	1620	54923	50.19	NG/UL	96
67)	Bis(2-Ethylhexyl)Phthalate	33.11	1776	1340	.82	NG/UL	90
69)	*d12-Perylene	34.97	1882	82481	50.00	NG/UL	98

* Compound is ISTD

bf 005

:QREP,^BP006

3

QUANT REPORT

Operator ID: SUKWHA Quant Rev: 6 Quant Time: 890311 12:14
Output File: ^BP006::SK Injected at: 890308 13:47
Data File: >BP006::C7 Dilution Factor: 1.00000
Name: SF5883 89FS09S75
Misc: 030889 .99L/1ML 52/55 BTL# 5

ID File: IDBP96::KS
Title: HP BNA STD REV E BABU 03\10\89
Last Calibration: 890310 10:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	4.24	138	27535	50.00	NG/UL	95
2)	2-Fluorophenol	2.18	21	25433	49.37	NG/UL	91
3)	Phenol-d5	3.86	116	29229	37.72	NG/UL	97
16)	d8-Naphthalene	8.12	358	106563	46.49	NG/UL	92
17)	Nitrobenzene-d5	5.85	229	50295	77.42	NG/UL	91
31)	d10-Acenaphthene	15.70	788	56927	53.28	NG/UL	96
36)	2-Fluorobiphenyl	13.00	635	113814	79.62	NG/UL	94
39)	*d-10-Phenanthrene	22.41	1169	81152	50.00	NG/UL	98
54)	2,4,6-Tribromophenol	19.47	1002	16320	75.97	NG/UL	97
62)	d12-Chrysene	32.59	1747	69473	39.96	NG/UL	96
64)	Terphenyl-d14	30.39	1622	92061	78.64	NG/UL	97
69)	*d12-Perylene	35.00	1884	76284	50.00	NG/UL	97

* Compound is ISTD

:QREP,^BP007

QUANT REPORT

Operator ID: SUKWHA Quant Rev: 6 Quant Time: 890311 12:19
Output File: ^BP007::SK Injected at: 890308 14:41
Data File: >BP007::C7 Dilution Factor: 1.00000
Name: SF5883 89FS09D75
Misc: 030889 1.03/1ML 52/55 BTL# 6

ID File: IDBP96::KS
Title: HP BNA STD REV E BABU 03\10\89
Last Calibration: 890310 10:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	4.18	138	24074	50.00	NG/UL	95
2)	2-Fluorophenol	2.11	21	30349	67.38	NG/UL	97

16)	d8-Naphthalene	8.09	360	95854	47.83	NG/UL	90
17)	Nitrobenzene-d5	5.80	230	52848	93.04	NG/UL	93
31)	d10-Acenaphthene	15.69	791	49562	53.06	NG/UL	97
36)	2-Fluorobiphenyl	12.99	638	118225	94.59	NG/UL	93
39)	*d-10-Phenanthrene	22.40	1172	71384	50.00	NG/UL	97
54)	2,4,6-Tribromophenol	19.47	1006	18237	96.51	NG/UL	96
62)	d12-Chrysene	32.57	1749	64109	41.92	NG/UL	97
64)	Terphenyl-d14	30.38	1625	90660	88.04	NG/UL	97
69)	*d12-Perylene	34.98	1886	73556	50.00	NG/UL	96

* Compound is ISTD

BP007

:QREP,^BP007

QUANT REPORT

Operator ID: SUKWHA Quant Rev: 6 Quant Time: 890311 12:19
Output File: ^BP007::SK Injected at: 890308 14:41
Data File: >BP007::C7 Dilution Factor: 1.00000
Name: SF5883 89FS09D75
Misc: 030889 1.03/1ML 52/55 BTL# 6

4

ID File: IDBP96::KS
Title: HP BNA STD REV E BABU 03\10\89
Last Calibration: 890310 10:45

Repeated

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	4.18	138	24074	50.00	NG/UL	95
2)	2-Fluorophenol	2.11	21	30349	67.38	NG/UL	97
3)	Phenol-d5	3.77	115	30358	44.81	NG/UL	92
16)	d8-Naphthalene	8.09	360	95854	47.83	NG/UL	90
17)	Nitrobenzene-d5	5.80	230	52848	93.04	NG/UL	93
31)	d10-Acenaphthene	15.69	791	49562	53.06	NG/UL	97
36)	2-Fluorobiphenyl	12.99	638	118225	94.59	NG/UL	93
39)	*d-10-Phenanthrene	22.40	1172	71384	50.00	NG/UL	97
54)	2,4,6-Tribromophenol	19.47	1006	18237	96.51	NG/UL	96
62)	d12-Chrysene	32.57	1749	64109	41.92	NG/UL	97
64)	Terphenyl-d14	30.38	1625	90660	88.04	NG/UL	97
69)	*d12-Perylene	34.98	1886	73556	50.00	NG/UL	96

* Compound is ISTD

:QREP,^BP008

QUANT REPORT

Operator ID: SUKWHA Quant Rev: 6 Quant Time: 890311 12:23
Output File: ^BP008::SK Injected at: 890308 15:35
Data File: >BP008::C7 Dilution Factor: 1.00000
Name: SF5883 89FS09S77
Misc: 030889 .98L/1ML 52/55 BTL# 7

ID File: IDBP96::KS
Title: HP BNA STD REV E BABU 03\10\89
Last Calibration: 890310 10:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	4.16	133	30171	50.00	NG/UL	91
2)	2-Fluorophenol	2.11	17	30363	53.79	NG/UL	96
3)	Phenol-d5	3.75	110	31671	37.30	NG/UL	89
16)	d8-Naphthalene	8.09	356	116566	46.41	NG/UL	90
17)	Nitrobenzene-d5	5.80	226	57504	80.78	NG/UL	97
31)	d10-Acenaphthene	15.68	787	57911	49.47	NG/UL	99

38)	2-Fluorobiphenyl	13.02	636	123010	76.53	NG/UL	94
39)	*d-10-Phenanthrene	22.41	1169	81606	50.00	NG/UL	99
54)	2,4,6-Tribromophenol	19.46	1002	15965	73.90	NG/UL	96
62)	d12-Chrysene	32.59	1747	76048	43.50	NG/UL	96
64)	Terphenyl-d14	30.39	1622	93803	79.69	NG/UL	99
67)	Bis(2-Ethylhexyl)Phthalate	33.14	1778	1269	.72	NG/UL	92
69)	*d12-Perylene	35.00	1884	83134	50.00	NG/UL	98

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BP008

* Compound is ISTD

:QREP,^BP009

5

QUANT REPORT

Operator ID: SUKWHA Quant Rev: 6 Quant Time: 890311 12:28
Output File: ^BP009::SK Injected at: 890308 16:28
Data File: >BP009::C7 Dilution Factor: 1.00000
Name: SF5883 89FS09R08
Misc: 030889 1.02/1ML 52/55 BTL# 8

ID File: IDBP96::KS
Title: HP BNA STD REV E BABU 03\10\89
Last Calibration: 890310 10:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	4.24	138	24516	50.00	NG/UL	96
2)	2-Fluorophenol	2.18	21	30551	66.60	NG/UL	99
3)	Phenol-d5	3.86	116	31904	46.25	NG/UL	96
16)	d8-Naphthalene	8.12	358	94452	46.28	NG/UL	90
17)	Nitrobenzene-d5	5.86	230	56970	98.49	NG/UL	97
31)	d10-Acenaphthene	15.69	788	51365	54.00	NG/UL	97
36)	2-Fluorobiphenyl	13.02	636	121957	95.82	NG/UL	94
39)	*d-10-Phenanthrene	22.40	1169	72544	50.00	NG/UL	98
54)	2,4,6-Tribromophenol	19.46	1002	17409	90.66	NG/UL	96
62)	d12-Chrysene	32.57	1746	62012	39.90	NG/UL	95
64)	Terphenyl-d14	30.39	1622	91807	87.73	NG/UL	95
69)	*d12-Perylene	34.98	1883	71914	50.00	NG/UL	98

* Compound is ISTD

QUANT REPORT

Operator ID: SUKWHA Quant Rev: 6 Quant Time: 890310 10:52
Output File: ^BP010::SK Injected at: 890308 17:22
Data File: >BP010::C7 Dilution Factor: 1.00000
Name: SF5883 SF5888
Misc: 030889 TOX STD 100PPM BTL# 9

ID File: IDBP96::KS
Title:
Last Calibration: 890310 10:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	4.17	134	38826	50.00		95
2)	2-Fluorophenol	2.11	17	56956	78.40		93
3)	Phenol-d5	3.79	112	85220	78.00		93
4)	Phenol	3.80	113	52534	75.30		91
5)	bis(2-Chloroethyl)Ether	3.82	114	48664	75.16		88
6)	2-Chlorophenol	3.84	115	49451	77.44		99
7)	1,3-Dichlorobenzene	4.09	129	61205M	78.28		88
8)	1,4-Dichlorobenzene	4.21	136	66951	78.14		88
9)	Benzyl Alcohol	4.76	167	30614	82.91		91
10)	1,2-Dichlorobenzene	4.67	162	64282M	78.56		89
11)	2-Methylphenol	5.30	198	46727	83.71		93
12)	bis(2-Chloroisopropyl)ether	5.20	192	16067	78.79		94
13)	4-Methylphenol	5.80	226	44552	78.70		97
14)	N-Nitroso-Di-n-propylamine	5.62	216	46327	78.74		97
15)	Hexachloroethane	5.46	207	24547	77.27		96
16)	d8-Naphthalene	8.11	357	162414	50.25		90
17)	Nitrobenzene-d5	5.83	228	69293	75.64		97
18)	Nitrobenzene	5.88	231	30544	78.76		96
19)	Isophorone	6.69	277	114731	75.86		98
20)	2-Nitrophenol	6.92	290	32908	82.59		92
21)	2,4-Dimethylphenol	7.54	325	41374	79.29		97
22)	Benzoic Acid	8.56	383	38737M	104.51		97
23)	bis(2-Chloroethoxy)Methane	7.79	339	76373	79.88		98
24)	2,4-Dichlorophenol	7.91	346	49602	80.86		97
25)	1,2,4-Trichlorobenzene	8.03	353	56719	78.39		93
26)	Naphthalene	8.18	361	164961	76.03		98
27)	4-Chloroaniline	8.79	396	26378	78.38		94
28)	Hexachlorobutadiene	9.06	411	35349	79.76		95
29)	4-Chloro-3-methylphenol	11.35	541	50959	76.22		95
30)	2-Methylnaphthalene	11.03	523	103344	75.73		97
31)	d10-Acenaphthene	15.70	788	71702	47.60		93
32)	Hexachlorocyclopentadiene	12.12	585	30164	83.60		99
33)	2,4,6-Trichlorophenol	12.69	617	32982M	77.18		93
34)	2,4,5-Trichlorophenol	12.90	629	33359	79.83		92
35)	2-Chloronaphthalene	13.11	641	102630	73.04		94
36)	2-Fluorobiphenyl	13.02	636	141188	70.04		94
37)	2-Nitroaniline	14.13	699	36294	85.64		91
38)	Dimethylphthalate	15.42	772	115503	75.24		83
39)	*d-10-Phenanthrene	22.42	1169	120975	50.00		98
40)	Acenaphthylene	14.94	745	157912	68.25		92
41)	3-Nitroaniline	16.12	812	27720	81.09		93
42)	Acenaphthene	15.84	796	110464	68.03		97
43)	2,4-Dinitrophenol	16.53	835	11040	147.64		80
44)	4-Nitrophenol	17.73	903	16169	117.84		95
45)	Dibenzofuran	16.62	840	147353	69.23		91
46)	2,4-Dinitrotoluene	17.29	878	37826M	82.24		
47)	2,6-Dinitrotoluene	15.60	782	27627M	76.35		
48)	Diethylphthalate	18.82	965	135800	73.96		89
49)	4-Chlorophenyl-phenylether	18.57	951	46023M	68.80		
50)	Fluorene	18.19	929	109903	70.28		96

	4-Nitroaniline					
52)	4,6-Dinitro-2-methylphenol	[illegible]	[illegible]	[illegible]	[illegible]	62
53)	N-Nitrosodiphenylamine	19.28	991	17654	66.16	98
54)	2,4,6-Tribromophenol	19.47	1002	23205	72.46	95
55)	4-Bromophenyl-phenylether	20.78	1076	27018	74.09	90
56)	Hexachlorobenzene	21.06	1092	34577	74.68	98
57)	Pentachlorophenol	22.19	1156	18220	90.57	97
58)	Phenanthrene	22.50	1174	154415M	77.86	93
59)	Anthracene	22.72	1186	157158	78.96	93
60)	Di-n-Butylphthalate	26.52	1402	255988	88.35	95
61)	Fluoranthene	28.02	1487	181528	87.21	97
62)	d12-Chrysene	32.59	1746	121719	46.96	92
63)	Pyrene	29.15	1551	167140	79.79	90
64)	Terphenyl-d14	30.38	1621	135326	77.55	97
65)	Butylbenzylphthalate	31.95	1710	140020M	79.01	
66)	Benzo(a)Anthracene	32.55	1744	165823	69.31	96
67)	Bis(2-Ethylhexyl)Phthalate	33.10	1775	191853	73.72	87
68)	Chrysene	32.62	1748	152544M	68.99	93
69)	*d12-Perylene	34.99	1882	60765	50.00	98
70)	Di-n-octylphthalate	34.02	1827	324276	119.85	86
71)	Benzo(b)fluoranthene	34.32	1844	131312M	95.75	92
72)	Benzo(k)Fluoranthene	34.37	1847	123660	103.32	92
73)	Benzo(a)Pyrene	34.88	1876	95337M	85.99	95
74)	Indeno(1,2,3-cd)Pyrene	37.42	2020	29761	59.10	89
75)	Dibenzo(a,h)Anthracene	37.54	2027	37634	68.74	94
76)	Benzo(g,h,i)Perylene	38.12	2060	24619M	53.16	92

* Compound is ISTD

BP010

:URP,^BP011

QUANT REPORT

Operator ID: SUKWHA Quant Rev: 6 Quant Time: 890310 11:03
Output File: ^BP011::SK Injected at: 890308 18:16
Data File: >BP011::C7 Dilution Factor: 1.00000
Name: SF5883 SF5888
Misc: 030889 TOX STD 50 PPM BTL#10

ID File: IDBP96::KS
Title:
Last Calibration: 890310 10:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	4.17	134	25873	50.00		95
2)	2-Fluorophenol	2.11	17	54606	112.80		93
3)	Phenol-d5	3.77	111	81332	111.71		95
4)	Phenol	3.78	112	25766	55.42		95
5)	bis(2-Chloroethyl)Ether	3.80	113	24132	55.93		90
6)	2-Chlorophenol	3.82	114	23165	54.44		99
7)	1,3-Dichlorobenzene	4.07	128	28005M	53.75		96
8)	1,4-Dichlorobenzene	4.21	136	30664	53.71		96
9)	Benzyl Alcohol	4.75	167	13598	55.27		90
10)	1,2-Dichlorobenzene	4.65	161	29466M	54.04		95
11)	2-Methylphenol	5.28	197	20567	55.29		98
12)	bis(2-Chloroisopropyl)ether	5.20	192	7527	55.39		89
13)	4-Methylphenol	5.78	225	21043	55.78		96
14)	N-Nitroso-Di-n-propylamine	5.60	215	21447	54.70		98
15)	Hexachloroethane	5.44	206	11447	54.07		97
16)	d8-Naphthalene	8.10	357	109759	50.96		90
17)	Nitrobenzene-d5	5.81	227	69425	113.73		96
18)	Nitrobenzene	5.87	230	14075	54.47		99
19)	Isophorone	6.68	276	56142	55.71		97
20)	2-Nitrophenol	6.90	289	14962	56.35		92
21)	2,4-Dimethylphenol	7.52	324	19711	56.68		92
22)	Benzoic Acid	8.42	375	14591	59.07		97
23)	bis(2-Chloroethoxy)Methane	7.77	338	35490	55.70		99
24)	2,4-Dichlorophenol	7.91	346	23278	56.95		96
25)	1,2,4-Trichlorobenzene	8.02	352	27280	56.58		95
26)	Naphthalene	8.16	360	81698	56.50		99
27)	4-Chloroaniline	8.79	396	13372	59.62		89
28)	Hexachlorobutadiene	9.06	411	15981	54.11		91
29)	4-Chloro-3-methylphenol	11.35	541	24471	54.92		91
30)	2-Methylnaphthalene	11.01	522	50867	55.93		97
31)	d10-Acenaphthene	15.68	787	51263	51.06		98
32)	Hexachlorocyclopentadiene	12.10	584	14160	58.89		97
33)	2,4,6-Trichlorophenol	12.67	616	16171	56.78		90
34)	2,4,5-Trichlorophenol	12.90	629	15821M	56.82		86
35)	2-Chloronaphthalene	13.09	640	53003	56.60		97
36)	2-Fluorobiphenyl	13.00	635	153566	114.33		92
37)	2-Nitroaniline	14.11	698	16386	58.02		96
38)	Dimethylphthalate	15.40	771	57599	56.31		80
39)	*d-10-Phenanthrene	22.39	1168	71921	50.00		98
40)	Acenaphthylene	14.92	744	77667	56.46		93
41)	3-Nitroaniline	16.10	811	12345	60.75		90
42)	Acenaphthene	15.82	795	54603	56.56		98
43)	2,4-Dinitrophenol	16.54	836	2463	55.40		81
44)	4-Nitrophenol	17.76	905	3759	46.08		92
45)	Dibenzofuran	16.60	839	73069	57.74		95
46)	2,4-Dinitrotoluene	17.27	877	16030M	58.63		
47)	2,6-Dinitrotoluene	15.57	781	12475M	57.99		
48)	Diethylphthalate	18.80	964	61172	56.04		88
49)	4-Chlorophenyl-phenylether	18.57	951	22932M	57.66		
50)	Fluorene	18.16	928	52525	56.50		97

52)	4,6-Dinitro-2-methylphenol	[illegible]	[illegible]	[illegible]	[illegible]	55
53)	N-Nitrosodiphenylamine	19.27	991	8823	55.62	91
54)	2,4,6-Tribromophenol	19.47	1002	21817	114.59	94
55)	4-Bromophenyl-phenylether	20.75	1075	12519	57.74	92
56)	Hexachlorobenzene	21.04	1091	15434	56.07	94
57)	Pentachlorophenol	22.16	1155	6970	58.28	89
58)	Phenanthrene	22.48	1173	65037	55.16	96
59)	Anthracene	22.69	1185	64919M	54.86	96
60)	Di-n-Butylphthalate	26.50	1401	94480	54.85	95
61)	Fluoranthene	28.00	1486	68516	55.37	96
62)	d12-Chrysene	32.58	1746	80448	52.21	95
63)	Pyrene	29.13	1550	71809	57.66	90
64)	Terphenyl-d14	30.38	1621	116399	112.20	97
65)	Butylbenzylphthalate	31.94	1710	61721M	58.58	
66)	Benzo(a)Anthracene	32.54	1744	82392	57.92	97
67)	Bis(2-Ethylhexyl)Phthalate	33.11	1776	87894	56.81	87
68)	Chrysene	32.61	1748	75238M	57.23	93
69)	*d12-Perylene	34.99	1883	71625	50.00	98
70)	Di-n-octylphthalate	34.02	1828	160177	50.22	85
71)	Benzo(b)fluoranthene	34.32	1845	82060	50.76	95
72)	Benzo(k)Fluoranthene	34.36	1847	69120M	49.00	95
73)	Benzo(a)Pyrene	34.87	1876	65474M	50.10	98
74)	Indeno(1,2,3-cd)Pyrene	37.44	2022	29861	50.31	91
75)	Dibenzo(a,h)Anthracene	37.55	2028	28359	43.94	92
76)	Benzo(g,h,i)Perylene	38.13	2061	22200M	40.67	95

* Compound is ISTD

RP011

QUANT REPORT

Operator ID: SUKWHA Quant Rev: 6 Quant Time: 890310 11:14
Output File: ^BP012::SK Injected at: 890308 19:10
Data File: >BP012::C7 Dilution Factor: 1.00000
Name: SF5883 SF5888
Misc: 030889 TOX STD 25PPM BTL#11

ID File: IDBP96::KS
Title:
Last Calibration: 890310 10:45

min Area = 0.7 Bch

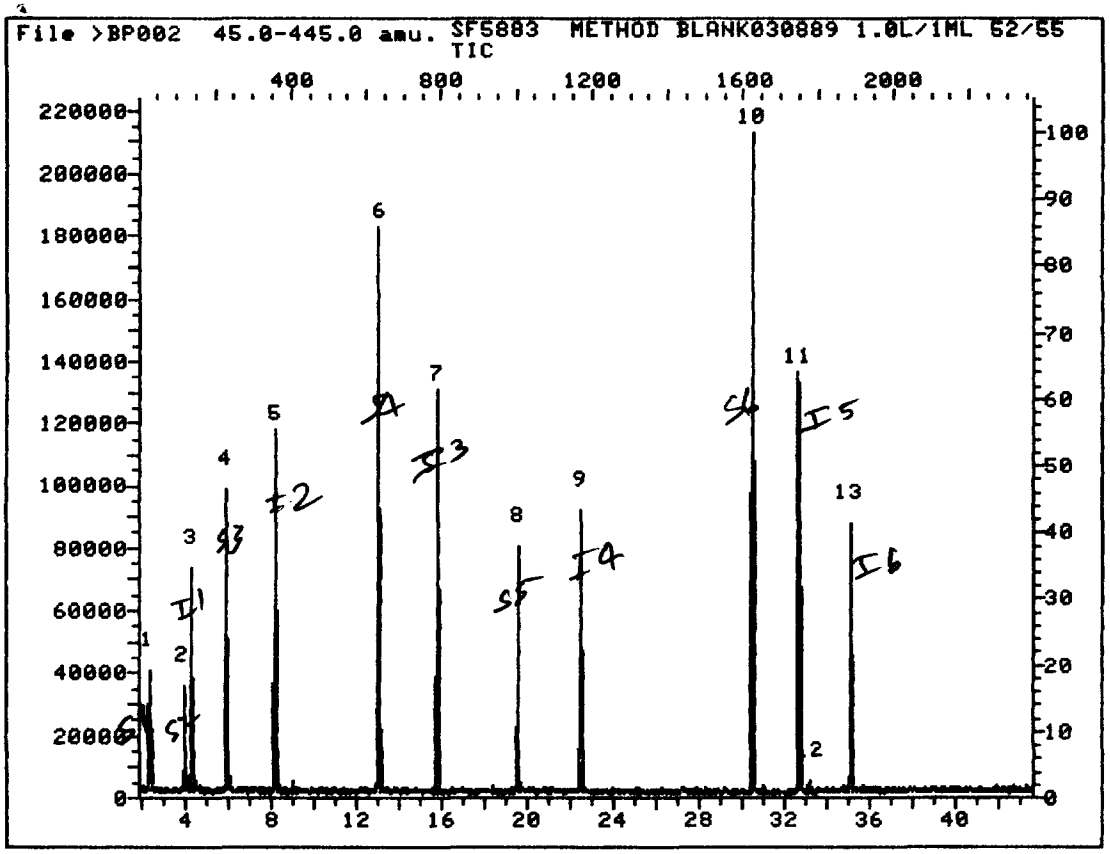
∝ ÷35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	4.23	137	25619	50.00		91
2)	2-Fluorophenol	2.18	21	52148	108.79		96
3)	Phenol-d5	3.84	115	79503	110.28		94
4)	Phenol	3.87	117	13105 370	28.47		96
5)	bis(2-Chloroethyl)Ether	3.87	117	12068 340	28.25		94
6)	2-Chlorophenol	3.89	118	11976 "	28.42		93
7)	1,3-Dichlorobenzene	4.14	132	15043M 430	29.16		94
8)	1,4-Dichlorobenzene	4.26	139	16050M 460	28.39		94
9)	Benzyl Alcohol	4.81	170	6490 185	26.64		98
10)	1,2-Dichlorobenzene	4.70	164	Δ 15323 430	28.38		93
11)	2-Methylphenol	5.34	200	Δ 9733 280	26.43		90
12)	bis(2-Chloroisopropyl)ether	5.23	194	3715 100	27.61		86
13)	4-Methylphenol	5.83	228	10248 300	27.43		97
14)	N-Nitroso-Di-n-propylamine	5.64	217	10855 300	27.96		94
15)	Hexachloroethane	5.49	209	6005 185	28.65		96
16)	d8-Naphthalene	8.12	358	104047	48.79		90
17)	Nitrobenzene-d5	5.85	229	66865	110.62		88
18)	Nitrobenzene	5.90	232	7184 200	28.08		86
19)	Isophorone	6.71	278	28124 800	28.18		98
20)	2-Nitrophenol	6.94	291	6883 200	26.18		96
21)	2,4-Dimethylphenol	7.56	326	9241 280	26.84		95
22)	Benzoic Acid	8.30	368	4729M 130	19.34		87
23)	bis(2-Chloroethoxy)Methane	7.80	340	17148 480	27.18		97
24)	2,4-Dichlorophenol	7.93	347	10650 300	26.31		97
25)	1,2,4-Trichlorobenzene	8.03	353	12944 340	27.11		96
26)	Naphthalene	8.17	361	39719 1200	27.74		99
27)	4-Chloroaniline	8.83	398	5684 170	25.59		97
28)	Hexachlorobutadiene	9.07	412	8190 240	28.01		95
29)	4-Chloro-3-methylphenol	11.36	542	12567 340	28.48		97
30)	2-Methylnaphthalene	11.03	523	25305 680	28.10		95
31)	d10-Acenaphthene	15.70	788	51034 1500	51.34		97
32)	Hexachlorocyclopentadiene	12.12	585	5869 170	24.65		95
33)	2,4,6-Trichlorophenol	12.68	617	7702 225	27.31		89
34)	2,4,5-Trichlorophenol	12.91	630	7170 200	26.00		94
35)	2-Chloronaphthalene	13.11	641	26370 680	28.44		95
36)	2-Fluorobiphenyl	13.00	635	153796	115.63		93
37)	2-Nitroaniline	14.11	698	6873 200	24.58		78
38)	Dimethylphthalate	15.40	771	28398 700	28.04		82
39)	*d-10-Phenanthrene	22.39	1168	69911 2000	50.00		98
40)	Acenaphthylene	14.92	744	39721 1200	29.71		92
41)	3-Nitroaniline	16.12	812	4811 130	24.35		92
42)	Acenaphthene	15.82	795	27883 700	29.71		96
43)	2,4-Dinitrophenol	16.61	840	449M 10	10.39		
44)	4-Nitrophenol	17.86	911	1784M 50	22.50		
45)	Dibenzofuran	16.60	839	35452 1000	28.82		90
46)	2,4-Dinitrotoluene	17.27	877	6729M 200	25.32		
47)	2,6-Dinitrotoluene	15.57	781	Δ 5638M 160	26.96		
48)	Diethylphthalate	18.80	964	30235 850	28.49		89
49)	4-Chlorophenyl-phenylether	18.57	951	11212M 340	29.00		
50)	Fluorene	18.16	928	26371 700	29.18		92

51)	4-Nitroaniline	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
52)	4,6-Dinitro-2-methylphenol	19.06	979	14[illegible]	40	28.48		66
53)	N-Nitrosodiphenylamine	19.27	991	4727	130	30.65		98
54)	2,4,6-Tribromophenol	19.47	1002	20902	[illegible]	112.94		89
55)	4-Bromophenyl-phenylether	20.75	1075	5818	170	27.61		89
56)	Hexachlorobenzene	21.04	1091	7571	225	28.30		90
57)	Pentachlorophenol	22.18	1156	2699M	70	23.22		94
58)	Phenanthrene	22.48	1173	31848M	900	27.79		95
59)	Anthracene	22.67	1184	32009	900	27.83		95
60)	Di-n-Butylphthalate	26.48	1400	42684	1200	25.49		96
61)	Fluoranthene	28.00	1486	30690	900	25.51		98
62)	d12-Chrysene	32.58	1746	76144	2000	50.84		94
63)	Pyrene	29.11	1549	31747	900	26.22		93
64)	Terphenyl-d14	30.38	1621	111190	~	110.26		97
65)	Butylbenzylphthalate	31.94	1710	△ 26485M	700	25.86		
66)	Benzo(a)Anthracene	32.54	1744	39698	1100	28.71		96
67)	Bis(2-Ethylhexyl)Phthalate	33.11	1776	42416	1200	28.20		85
68)	Chrysene	32.61	1748	37222M	1000	29.13		94
69)	*d12-Perylene	34.99	1883	85101	2400	50.00		98
70)	Di-n-octylphthalate	34.02	1828	75587	2000	19.95		87
71)	Benzo(b)fluoranthene	34.32	1845	49326	1300	25.68		96
72)	Benzo(k)Fluoranthene	34.36	1847	△ 41076M	1200	24.51		96
73)	Benzo(a)Pyrene	34.87	1876	△ 39262M	1000	25.29		98
74)	Indeno(1,2,3-cd)Pyrene	37.42	2021	24735	680	35.07		91
75)	Dibenzo(a,h)Anthracene	37.54	2028	27486	740	35.85		93
76)	Benzo(g,h,i)Perylene	38.12	2061	△ 24399M	680	37.62		95

* Compound is ISTD

BP 012



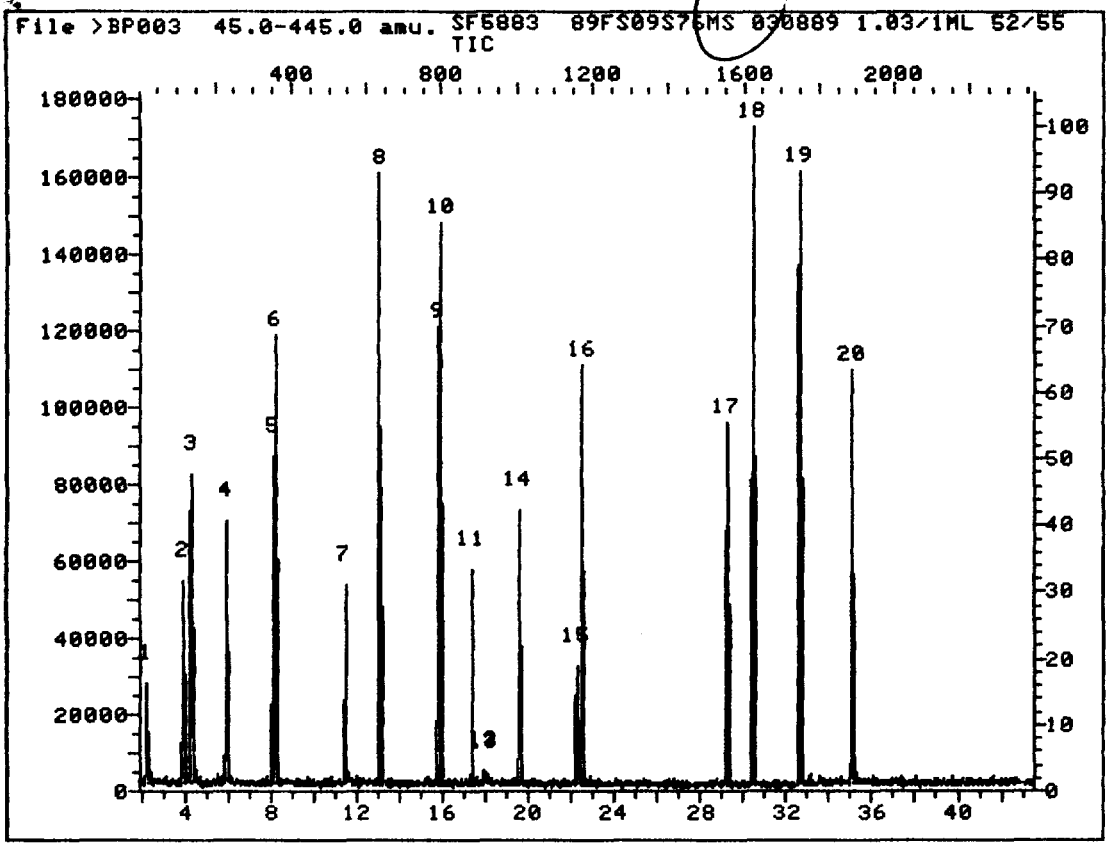
NO TICs
NO Targets

GC/MS Top Level. Select softkey...

>BP002 SF5883 METHOD BLANK030889 1.0L/1ML 52/55
45.01 445.0 TIC
Upslope: .20 Area Reject: 2.00 % Max Peaks: 13 Bunching: 1
Dnslope: 0.00 Results File VDIR78 Sorted by Area/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	13.01	630	635	638	181036	580596	562284	100.00	15.19
2	30.39	1618	1621	1624	211226	499980	489602	87.07	13.23
3	15.69	782	787	793	129224	424121	404860	72.00	10.94
4	8.11	353	357	364	116500	346772	325852	57.95	8.80
5	22.40	1164	1168	1177	90417	351072	323926	57.61	8.75
6	32.57	1743	1745	1748	134283	330217	319670	56.85	8.63
7	19.48	998	1002	1010	78764	287640	265350	47.19	7.17
8	5.85	225	229	233	97035	274002	255508	45.44	6.90
9	34.99	1880	1882	1891	85794	281436	252852	44.97	6.83
10	4.25	135	138	146	71106	252496	223293	39.71	6.03
11	2.27	23	26	33	38088	185488	155943	27.73	4.21
12	3.86	113	116	123	33356	137318	109794	19.53	2.96
13	33.12	1772	1776	1780	4070	25096	11875	2.11	.32

Sum of corrected areas: 3700809.


File >BP003 45.0-445.0 amu. SF5883 89FS09S76MS 030889 1.03/1ML 52/55
TIC
400
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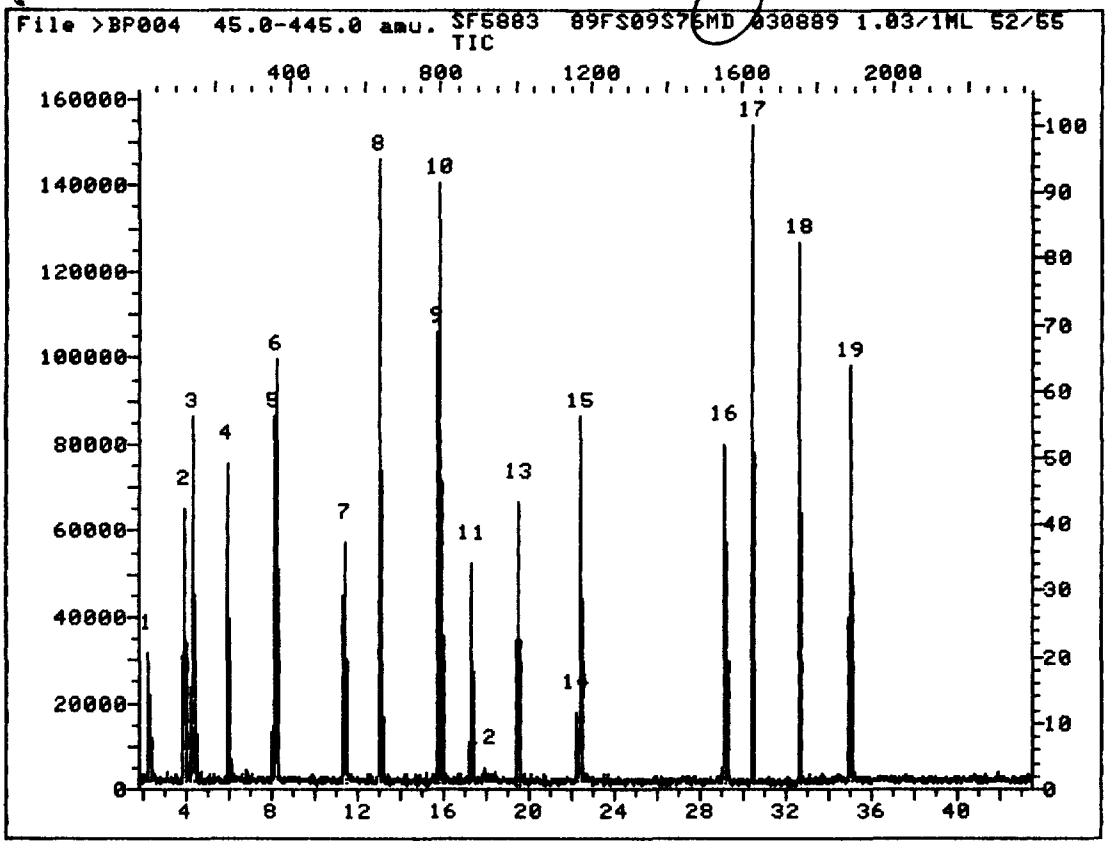
>BP003 SF5883 89FS09S76MS 030889 1.03/1ML 52/55
45.01 445.0 TIC
Upslope: .20 Area Reject: 2.00 % Max Peaks: 20 Bunching: 1
Dnslope: 0.00 Results File VDIR78 Sorted by Area/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	13.01	631	635	643	158773	483376	459375	100.00	8.57
2	30.39	1617	1621	1624	171063	439664	425079	92.53	7.93
3	15.84	792	796	799	146612	437427	423967	92.29	7.91
4	4.21	131	136	146	80647	457282	418668	91.14	7.81
5	15.70	783	788	792	118945	420594	401761	87.46	7.49
6	29.15	1545	1551	1557	94113	398874	377235	82.12	7.04
7	32.59	1743	1746	1748	159626	358641	350102	76.21	6.53
8	22.42	1164	1169	1173	109467	363924	347037	75.55	6.47
9	8.11	354	357	364	116393	353626	330525	71.95	6.16
10	35.00	1880	1883	1891	107469	326170	295701	64.37	5.51
11	3.82	109	114	123	53010	296520	263956	57.46	4.92
12	8.02	348	352	354	85311	268815	256478	55.83	4.78
13	19.49	998	1003	1007	71377	254030	236110	51.40	4.40
14	5.81	224	227	232	67756	213562	191152	41.61	3.56
15	11.35	538	541	548	51526	203287	179746	39.13	3.35
16	17.29	872	878	885	56201	190059	165431	36.01	3.08
17	22.19	1152	1156	1161	31062	130106	112825	24.56	2.10
18	2.11	15	17	28	25914	127856	97343	21.19	1.81
19	17.82	902	908	910	3604	31335	15603	3.40	.29
20	17.89	910	912	915	2726	22508	9868	2.15	.18

Sum of corrected areas: 5357962.


File >BP004 45.0-445.0 amu. SF5883 89FS09S76MD 030889 1.03/1ML 52/55
TIC
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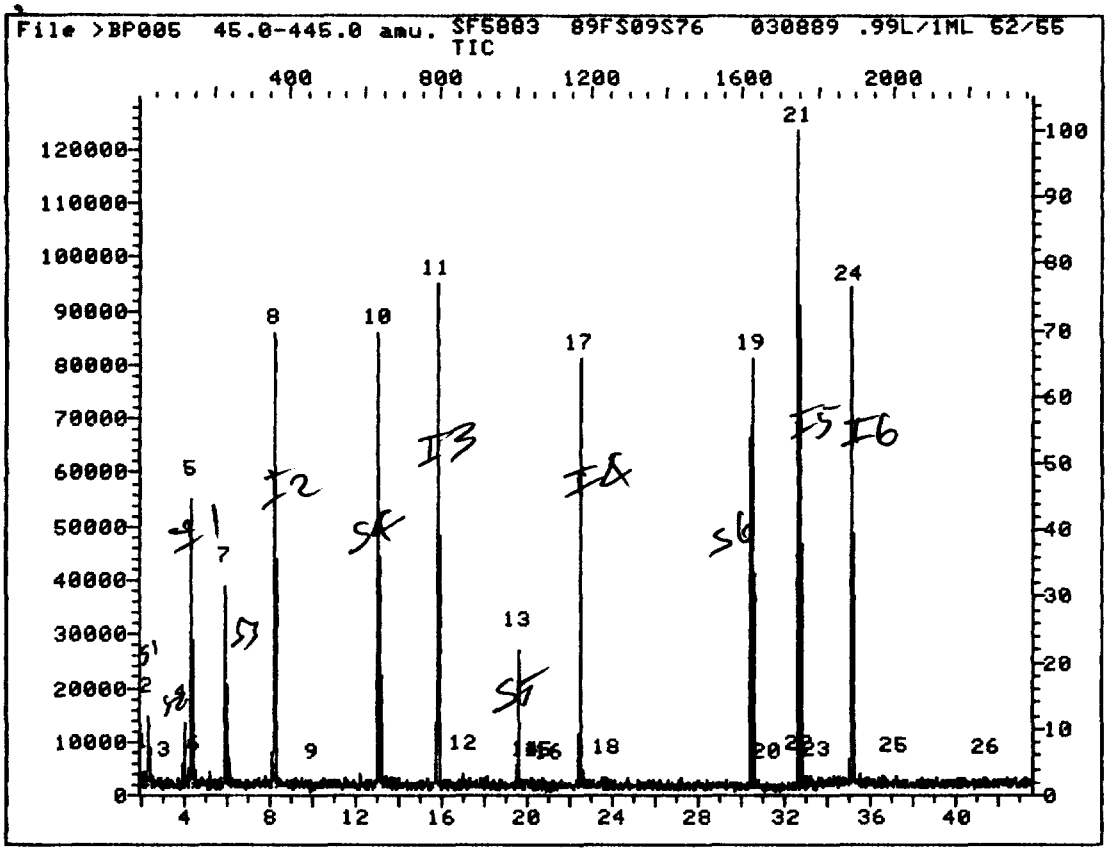
>BP004 SF5883 89FS09S76MD 030889 1.03/1ML 52/55
45.01 445.0 TIC
Upslope: .20 Area Reject: 2.00 % Max Peaks: 19 Bunching: 1
Dnslope: 0.00 Results File VDIR78 Sorted by Area/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	13.01	635	639	643	144135	455265	436930	100.00	9.25
2	15.85	796	800	803	137572	417528	392475	89.83	8.30
3	4.29	138	144	154	84529	415981	382356	87.51	8.09
4	30.39	1621	1625	1628	152194	357618	343599	78.64	7.27
5	15.71	787	792	796	104571	349355	332827	76.17	7.04
6	29.15	1548	1555	1561	78874	332948	314613	72.01	6.66
7	22.42	1168	1173	1181	84369	306752	277496	63.51	5.87
8	3.90	117	122	130	63222	299380	272650	62.40	5.77
9	32.57	1747	1749	1752	125104	274471	263950	60.41	5.58
10	8.06	354	358	360	84011	276614	261080	59.75	5.52
11	34.98	1883	1886	1896	96364	282580	255903	58.57	5.41
12	8.13	360	362	367	97211	261255	243526	55.74	5.15
13	19.48	1001	1006	1013	65314	245263	229226	52.46	4.85
14	5.87	231	234	240	73814	216717	201472	46.11	4.26
15	11.37	542	546	556	55657	216275	191547	43.84	4.05
16	17.29	876	882	886	50869	158798	142001	32.50	3.00
17	2.19	22	25	34	29508	130876	102771	23.52	2.17
18	22.19	1156	1160	1168	15719	97474	69828	15.98	1.47
19	17.82	909	912	913	3018	17248	9021	2.06	.19

Sum of corrected areas: 4723271.

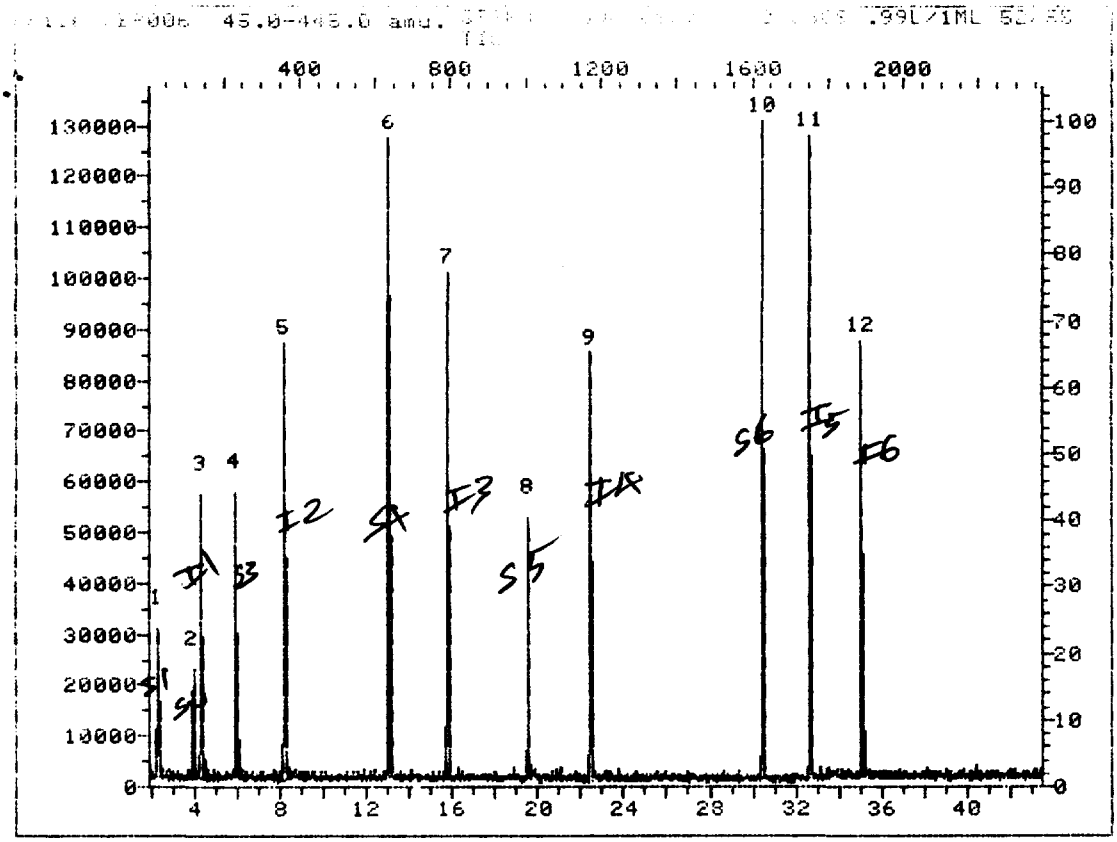


NO TICs
NO Targets

>BP005 SF5883 89FS09S76 030889 .99L/1ML 52/55
45.01 445.0 TIC
Upslope: .20 Area Reject: 2.00 % Max Peaks: 26 Bunching: 1
Dnslope: 0.00 Results File VDIR78 Sorted by Area/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	15.70	783	788	792	92576	311320	290101	100.00	12.88
2	32.56	1743	1745	1748	122144	261490	254360	87.68	11.30
3	22.39	1164	1168	1173	79640	269470	253379	87.34	11.25
4	34.97	1879	1882	1888	91909	270259	250283	86.27	11.12
5	8.12	354	358	365	84242	256807	239459	82.54	10.63
6	13.00	631	635	641	83474	260778	235264	81.10	10.45
7	30.38	1617	1621	1624	79495	207167	196272	67.66	8.72
8	4.24	133	138	143	53439	180476	162243	55.93	7.20
9	5.85	227	229	235	36557	119556	99055	34.15	4.40
10	19.47	999	1002	1008	25390	106824	91305	31.47	4.05
11	2.18	16	21	26	13148	65317	48621	16.76	2.16
12	3.86	114	116	121	11732	46721	34697	11.96	1.54
13	2.01	5	11	13	2718	23232	9750	3.36	.43
14	32.68	1750	1752	1757	2486	20553	9715	3.35	.43
15	9.90	455	459	461	1654	13833	7927	2.73	.35
16	37.09	1999	2002	2007	1916	20460	6894	2.38	.30
17	4.39	143	146	149	2132	18487	6733	2.32	.29
18	20.44	1055	1057	1061	1738	13890	6649	2.29	.29
19	16.97	854	860	861	2686	17236	6536	2.25	.29
20	20.91	1081	1084	1087	1558	12617	6379	2.20	.28
21	23.66	1238	1240	1243	1916	12500	5923	2.04	.26
22	31.13	1658	1664	1665	1506	13168	5901	2.03	.26
23	41.36	2241	2245	2248	1409	19078	5881	2.03	.26
24	19.87	1021	1025	1026	1338	13205	5865	2.02	.26
25	3.01	65	68	71	1416	14054	5825	2.01	.25
26	33.46	1791	1796	1797	1426	13931	5812	2.00	.25

Sum of corrected areas: 2250829.

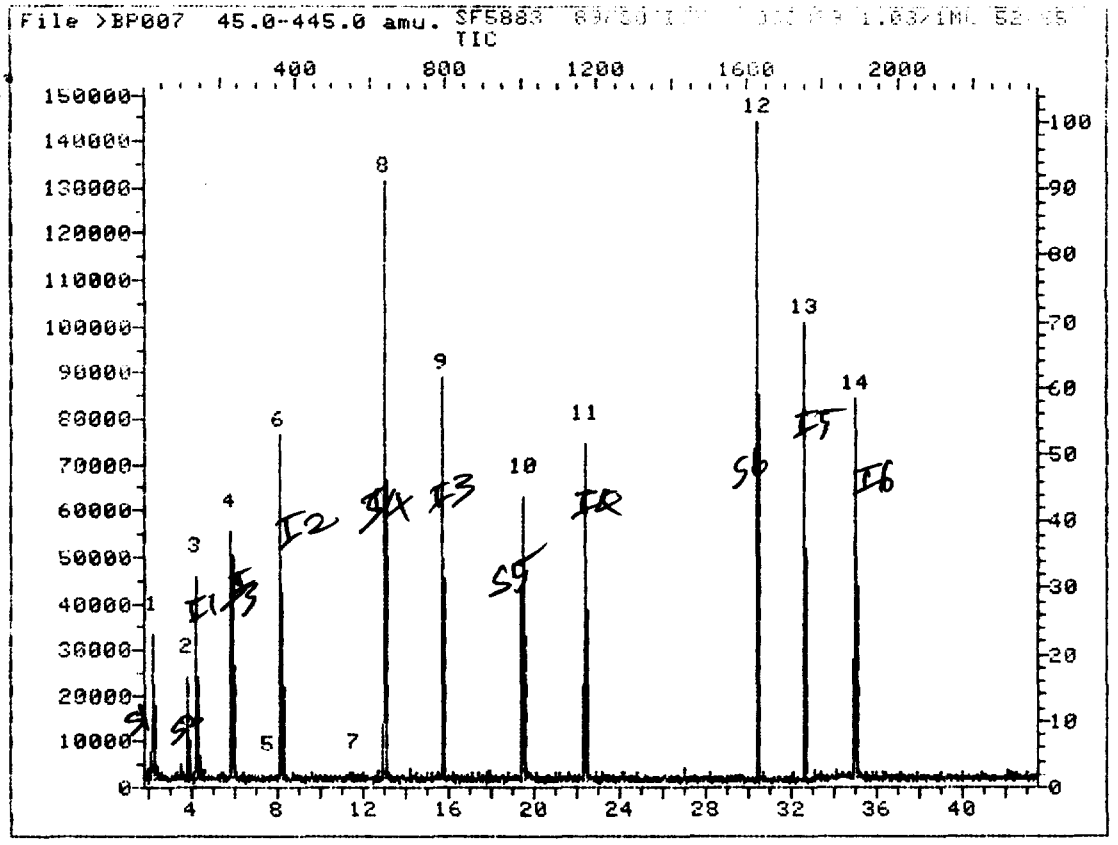


NO TICS
NO Targets

>BP006 SP5663 89P507579 030889 .99L/1ML 52 '59
45.01 445.0 TIC
Upslope: .20 Area Reject: 2.00 % Max Peaks: 12 Bunching: 1
Onslope: 0.00 Results File VDIR78 Sorted by Area/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of tota
1	13.00	630	635	639	125615	381585	361011	100.00	13.4
2	30.39	1619	1622	1628	129679	351268	336776	93.29	12.5
3	15.70	783	788	792	99239	323713	306065	84.78	11.4
4	22.41	1163	1169	1178	84503	298757	281300	77.92	10.4
5	8.12	352	358	366	85912	272218	250550	69.40	9.3
6	32.59	1744	1747	1750	126555	253474	244113	67.62	9.0
7	35.00	1881	1884	1891	85634	253722	229088	63.46	8.5
8	19.48	999	1003	1009	51120	198699	177739	49.23	6.6
9	4.24	134	138	145	55681	191712	170670	47.28	6.3
10	5.85	227	229	236	55905	180015	159810	44.27	5.9
11	2.18	19	21	30	28920	117950	94384	26.14	3.5
12	3.86	113	116	121	21173	87208	72114	19.98	2.6

Sum of corrected areas: 2683620.

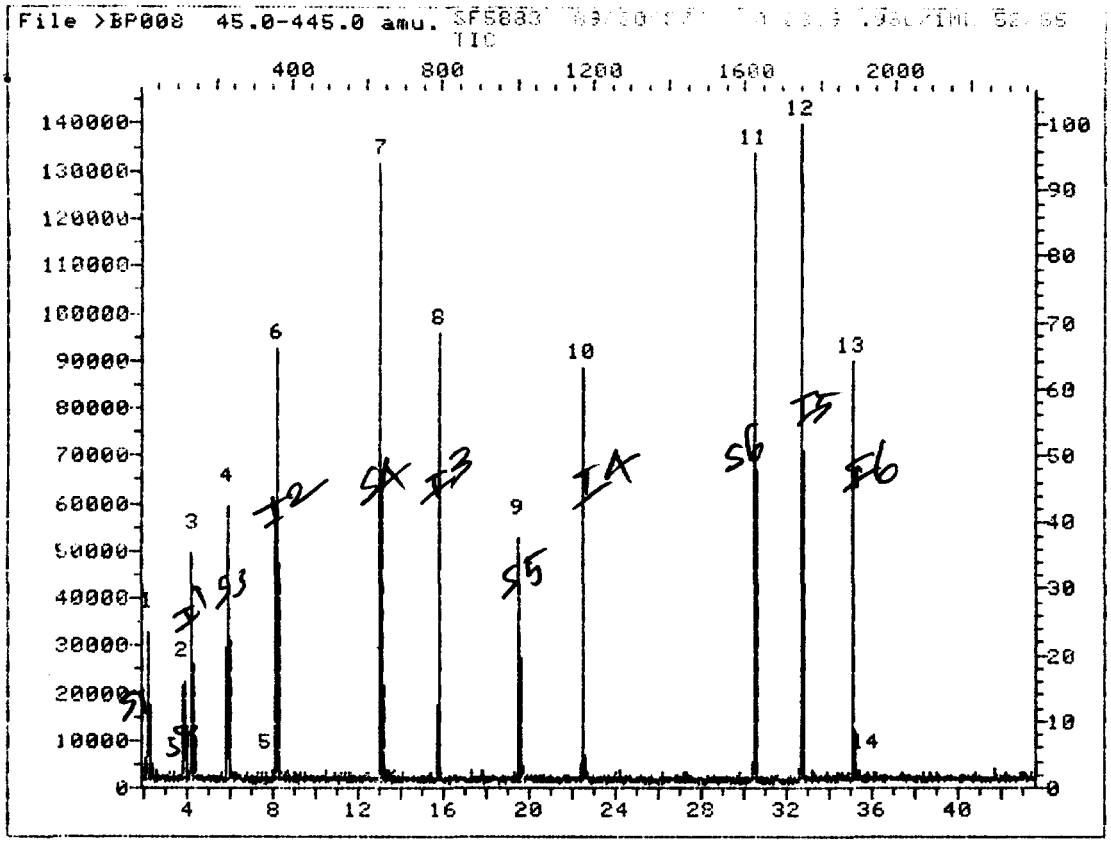


NO TICs
No Targets

>BP007 [illegible] 1.03/1ML 52/55
45.01 445.0 TIC
Upslope: .20 Area Reject: 2.00 % Max Peaks: 14 Bunching: 1
Dnslope: 0.00 Results File VDIR78 Sorted by Area/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of tota
1	12.99	634	638	642	129346	396920	381994	100.00	14.5
2	30.38	1621	1625	1628	142831	352988	342723	89.72	13.0
3	15.69	787	791	796	86649	283026	264077	69.13	10.0
4	22.40	1167	1172	1186	73172	272532	240340	62.92	9.1
5	32.57	1747	1749	1757	99615	253732	238307	62.39	9.0
6	34.98	1883	1886	1897	82028	263243	229274	60.02	8.7
7	8.09	356	360	363	74814	224126	211352	55.33	8.0
8	19.47	1002	1006	1016	60935	231255	202143	52.92	7.6
9	5.80	227	230	238	53102	193126	163425	42.78	6.2
10	4.18	135	138	145	43939	166417	144684	37.88	5.4
11	2.11	19	21	30	31516	136661	113942	29.83	4.3
12	3.77	111	115	123	22562	102369	84923	22.23	3.2
13	7.51	320	327	330	1243	24586	9126	2.39	.3
14	11.53	552	555	560	1693	20524	8132	2.13	.3

Sum of corrected areas: 2634442.

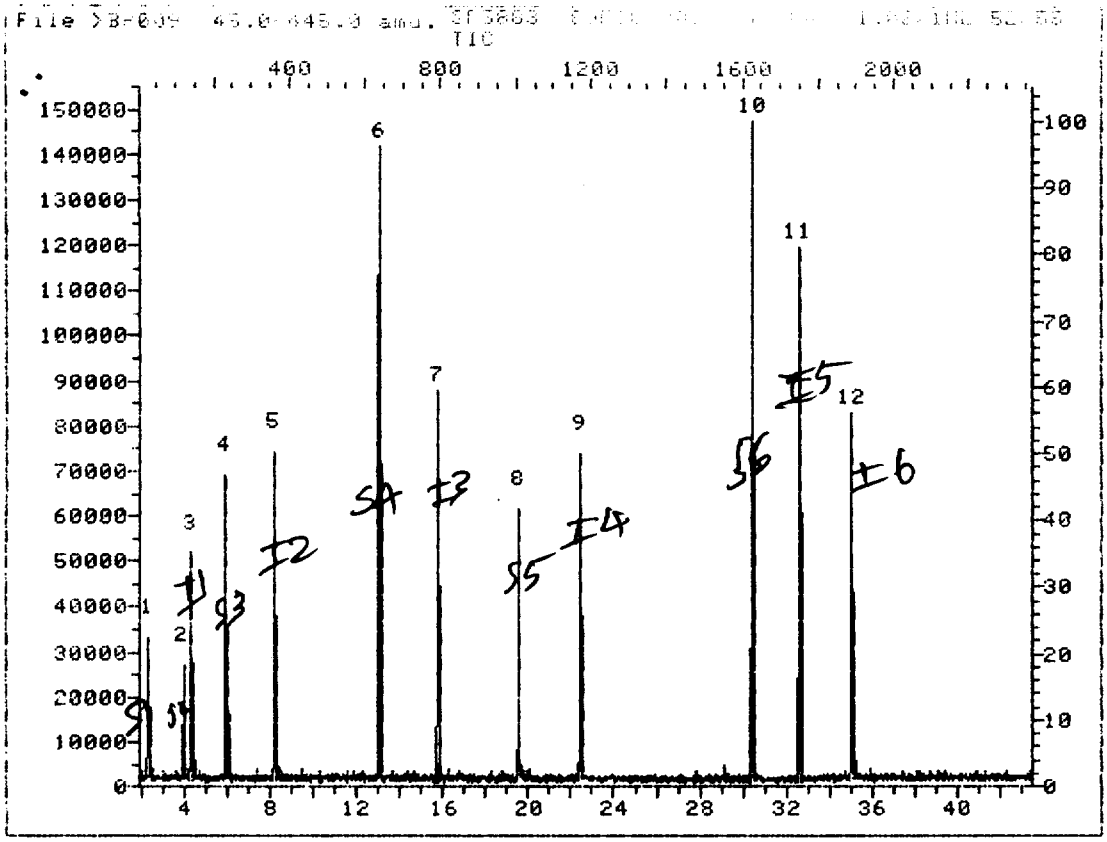


NO TICs
NO Targets
Clean Sample

>B-008 SF5883 89F6096.2 050889 .98L/1ML 52/55
45.01 445.0 TIC
Upslope: .20 Area Reject: 2.00 % Max Peaks: 14 Bunching: 1
Onslope: 0.00 Results File VDIR78 Sorted by Area/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of tota
1	13.00	630	635	639	130257	412995	398128	100.00	13.8
2	30.39	1619	1622	1626	132031	363531	350730	88.09	12.1
3	15.70	783	788	794	93658	341643	318745	80.06	11.0
4	32.59	1745	1747	1750	138563	279637	270962	68.06	9.3
5	22.41	1164	1169	1173	86812	284186	268184	67.36	9.2
6	8.09	352	356	362	91124	277356	259811	65.26	9.0
7	35.00	1881	1884	1891	88354	272245	253672	63.72	8.7
8	5.80	224	226	234	57806	201593	185303	46.54	6.4
9	4.17	130	134	142	47781	207311	183609	46.12	6.3
10	19.46	997	1002	1010	51219	203313	182652	45.88	6.3
11	2.11	14	17	25	31315	134760	115441	29.00	4.0
12	3.77	108	111	120	20293	106696	80349	20.18	2.7
13	35.67	1918	1922	1925	1780	19454	9135	2.29	.3
14	7.61	326	329	332	1952	15083	8035	2.02	.2

Sum of corrected areas: 2884756.

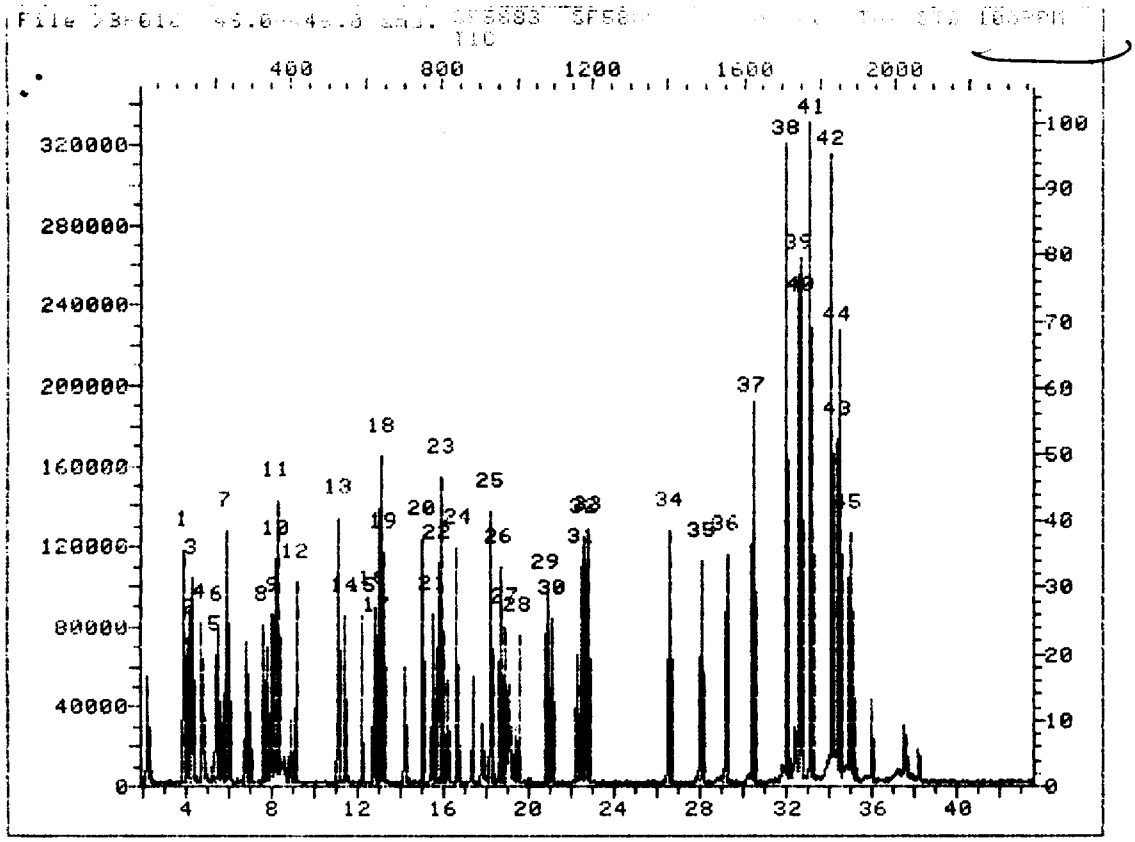


NO TICS
NO Targets
Lib. Search pg 3 was
not run :: it was not needed.
3/14/89

>BP009 SF5883 89FS09F08 030889 1.02/1ML 52/55
• 45.01 445.0 TIC
Upslope: .20 Area Reject: 2.00 % Max Peaks: 12 Bunching: 1
Onslope: 0.00 Results File VDIR78 Sorted by Area/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	13.02	631	636	639	140095	416751	400336	100.00	15.21
2	30.39	1618	1622	1625	145497	347464	332980	83.18	12.65
3	15.69	783	788	792	86897	296596	285262	71.26	10.84
4	22.40	1165	1169	1175	72018	255504	235439	58.81	8.94
5	32.57	1744	1746	1755	118556	240229	226595	56.60	8.61
6	8.12	355	358	365	72411	235176	218130	54.49	8.28
7	34.98	1880	1883	1891	80850	233710	210683	52.63	8.00
8	19.48	999	1003	1009	59457	219450	195667	48.88	7.43
9	5.86	226	230	235	67443	197976	181954	45.45	6.91
10	4.24	134	138	148	50266	182839	160144	40.00	6.08
11	2.18	19	21	29	31238	130121	110894	27.70	4.21
12	3.86	114	116	122	24764	90696	73484	18.36	2.79

Sum of corrected areas: 2631568.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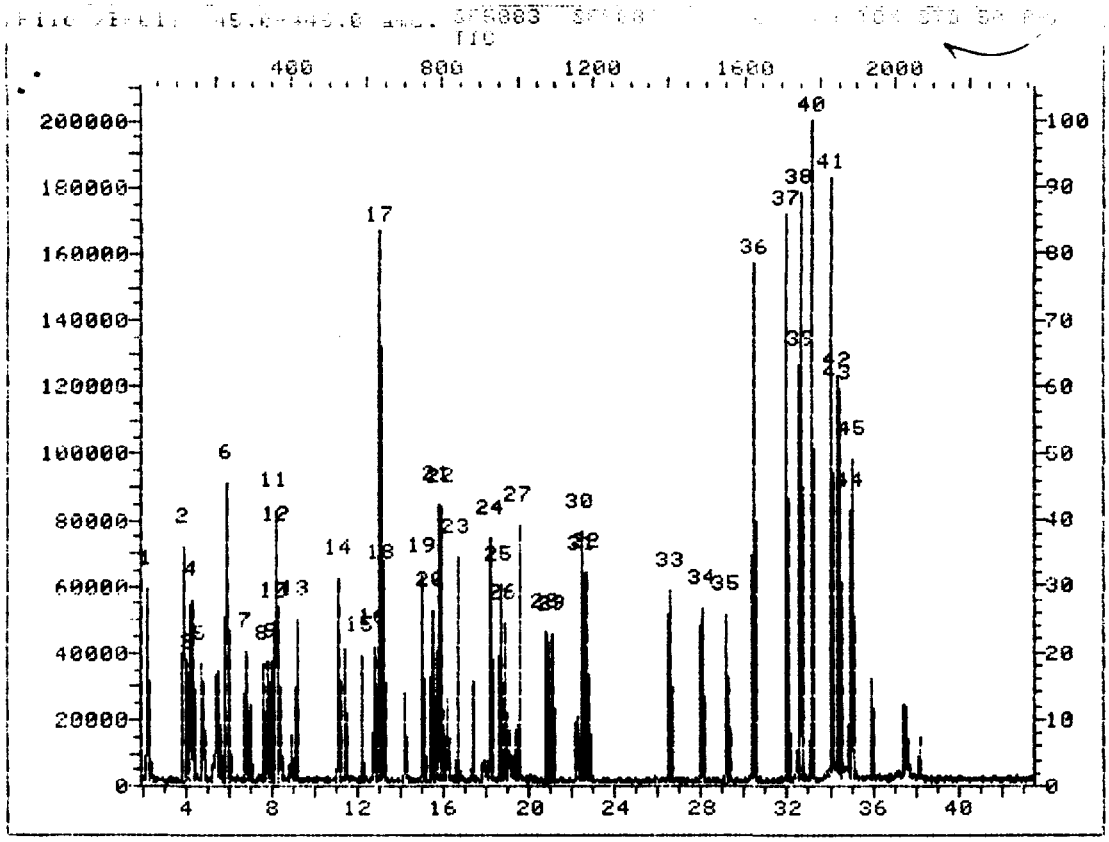
	[illegible]	[illegible]	1749	175[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	38.82	1476	1487	1491	109[illegible]	510640	462081	47.12	2.63
11	29.15	1544	1551	1555	113866	484495	458641	46.77	2.61
12	15.84	792	796	799	151144	460501	439649	44.84	2.50
13	5.81	223	227	229	125709	448416	433019	44.16	2.46
14	22.42	1162	1169	1171	107032	458001	432362	44.09	2.46
15	22.72	1178	1186	1189	121769	471268	429600	43.81	2.45
16	18.19	923	929	932	135259	446082	427259	43.57	2.43
17	22.52	1171	1175	1178	121841	444448	421409	42.98	2.40
18	34.37	1845	1847	1850	219677	462143	420857	42.92	2.40
19	26.52	1393	1402	1405	125626	443278	412941	42.11	2.35
20	11.03	518	523	528	132871	407504	395005	40.28	2.25
21	16.62	836	840	843	116764	419166	392693	40.05	2.23
22	14.94	739	745	749	122358	397473	383199	39.08	2.18
23	15.70	785	788	792	109435	399534	381220	38.88	2.17
24	13.11	638	641	645	114323	382998	361272	36.84	2.06
25	18.82	955	965	969	77581	389449	359518	36.66	2.05
26	34.32	1841	1844	1845	160267	408441	347289	35.42	1.98
27	8.18	359	361	364	136097	375753	341056	34.78	1.94
28	18.57	944	951	955	107483	362091	338347	34.50	1.92
29	8.12	355	358	359	108563	361625	336118	34.28	1.91
30	15.42	764	772	776	85211	328270	312240	31.84	1.78
31	21.08	1084	1093	1096	82613	331796	307413	31.35	1.75
32	20.78	1070	1076	1081	94909	324381	307084	31.32	1.75
33	9.08	405	412	417	100494	333595	306755	31.28	1.74
34	8.03	349	353	355	80144	339451	304926	31.10	1.73
35	34.88	1873	1876	1879	118105	338258	283428	28.90	1.61
36	12.69	613	617	625	87896	297902	276393	28.19	1.57
37	19.47	995	1002	1012	73932	298055	263026	26.82	1.50
38	4.67	158	162	165	79759	266338	252650	25.77	1.44
39	5.46	204	207	213	78800	269970	243187	24.80	1.38
40	4.09	125	129	132	72381	260920	242169	24.70	1.38
41	12.12	581	585	589	83958	253657	240167	24.49	1.36
42	11.35	537	541	545	83144	257765	237421	24.21	1.35
43	7.54	322	325	331	78580	253477	235593	24.03	1.34
44	12.90	625	629	632	74048	247278	234724	23.94	1.33
45	5.30	195	198	204	64031	256095	233427	23.80	1.33

Sum of corrected areas: 17537908.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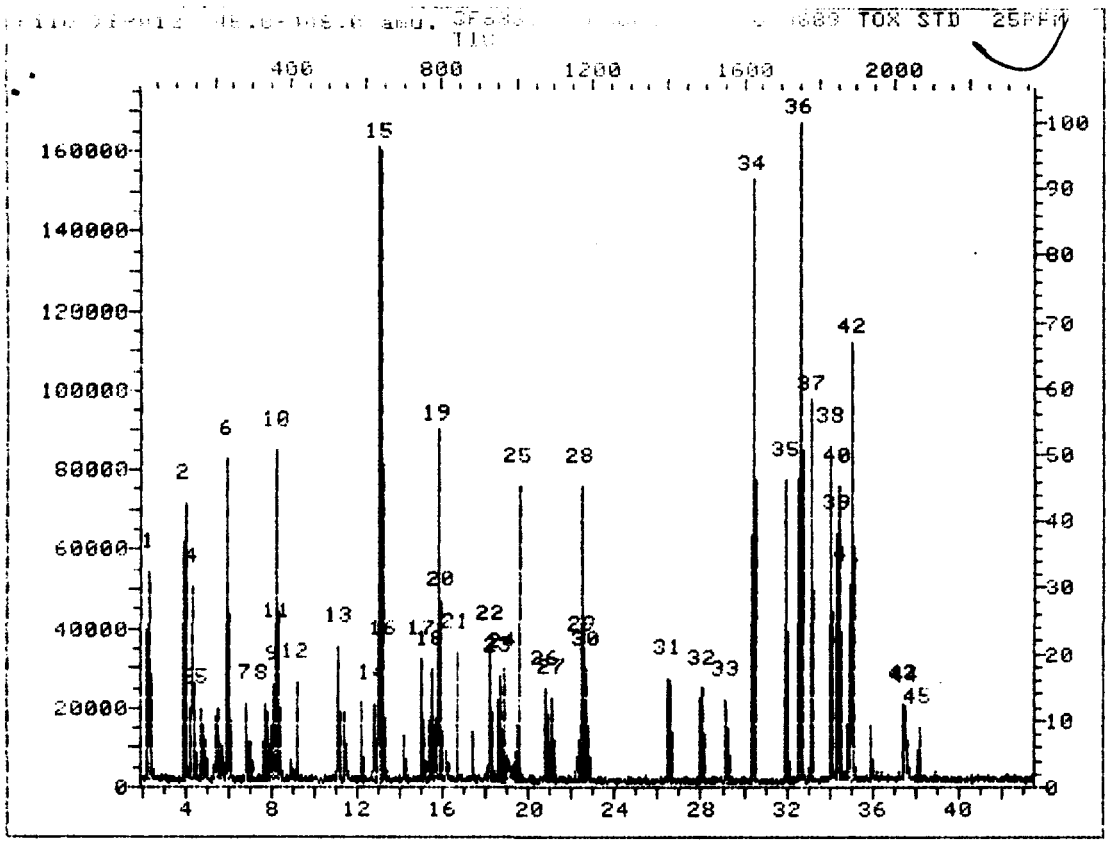
10	32.63	1747	1749	1751	127807	262412	253638	46.87	2.54
11	22.39	1163	1168	1171	74510	269199	250312	46.25	2.51
12	31.94	1708	1710	1713	169908	259182	246007	45.46	2.46
13	34.36	1846	1847	1852	115547	268939	245434	45.35	2.46
14	19.47	998	1002	1008	76254	264296	243527	45.00	2.44
15	34.32	1842	1845	1846	117791	261680	238410	44.06	2.39
16	8.10	354	357	358	81233	244986	238148	44.01	2.38
17	34.99	1880	1883	1892	95580	260756	226209	41.80	2.26
18	15.82	791	795	800	82301	242498	223396	41.28	2.24
19	16.60	832	839	843	67610	235002	219572	40.57	2.20
20	34.89	1873	1877	1880	79514	229741	202946	37.50	2.03
21	29.13	1541	1550	1555	50487	217920	202664	37.45	2.03
22	28.00	1480	1486	1494	51697	217031	194741	35.99	1.95
23	18.16	924	928	932	71750	217974	194579	35.96	1.95
24	14.92	739	744	751	61967	209064	192056	35.49	1.92
25	8.16	358	360	365	70798	202685	190490	35.20	1.91
26	2.11	15	17	26	56862	212711	188703	34.87	1.89
27	22.48	1171	1173	1178	61745	203514	187133	34.58	1.87
28	13.09	638	640	647	58778	207567	186304	34.43	1.86
29	22.69	1181	1185	1191	62267	204039	180986	33.44	1.81
30	11.01	519	522	526	59807	198986	179266	33.13	1.79
31	26.50	1396	1401	1405	57152	179425	165268	30.54	1.65
32	18.57	947	951	955	58306	178380	160847	29.72	1.61
33	18.80	960	964	969	47050	174945	155561	28.75	1.56
34	8.02	349	352	354	48089	161977	153572	28.38	1.54
35	20.75	1070	1075	1079	45596	158294	151182	27.94	1.51
36	15.40	767	771	777	50952	164023	147478	27.25	1.48
37	21.05	1087	1092	1097	44197	159535	142914	26.41	1.43
38	9.06	407	411	415	48035	156078	139651	25.81	1.40
39	12.68	613	617	625	39950	158020	132706	24.52	1.33
40	12.10	579	584	588	38059	128730	115301	21.31	1.15
41	4.65	158	161	165	34398	131032	114825	21.22	1.15
42	6.68	272	276	281	38796	129266	114717	21.20	1.15
43	7.91	342	346	349	35943	123447	111955	20.69	1.12
44	7.52	322	324	329	35380	121579	110968	20.51	1.11
45	4.07	125	128	131	32375	122420	110558	20.43	1.10

Sum of corrected areas: 9967694.


TOX STD 25PPM
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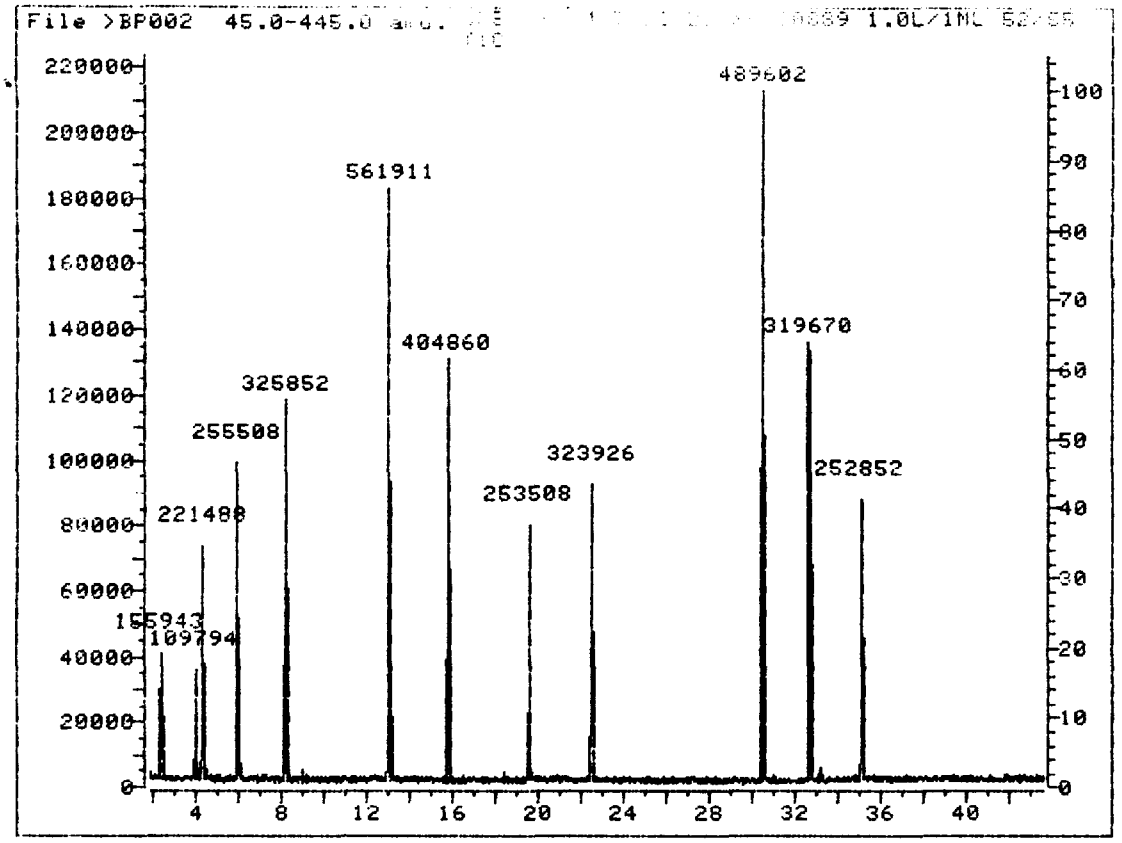
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	261420	[illegible]	43.49	3.62
10	22.39	1163	[illegible]	[illegible]	[illegible]	247823	234810	42.68	3.56
11	4.24	135	138	145	48449	237199	212755	38.67	3.22
12	2.18	18	21	32	52348	220182	190325	34.59	2.88
13	34.02	1826	1828	1832	83499	150372	135355	24.60	2.05
14	34.36	1846	1847	1857	73139	163751	135340	24.60	2.05
15	34.32	1842	1845	1846	61209	144969	134154	24.38	2.03
16	33.11	1774	1776	1779	95189	145064	132306	24.05	2.00
17	34.87	1873	1876	1879	49067	130573	116195	21.12	1.76
18	15.82	792	795	799	42440	129092	114010	20.72	1.72
19	31.94	1708	1710	1713	75779	119362	110564	20.10	1.67
20	18.16	924	928	933	34101	123228	105064	19.10	1.59
21	16.60	834	839	844	32410	117175	101177	18.39	1.53
22	13.11	638	641	645	30754	111727	98729	17.94	1.49
23	29.13	1543	1550	1557	21064	112319	94239	17.13	1.42
24	22.67	1181	1184	1193	27967	113904	93437	16.98	1.41
25	11.03	519	523	527	33371	109979	93341	16.97	1.41
26	14.92	741	744	750	30541	108205	93152	16.93	1.41
27	22.48	1171	1173	1177	31884	102827	92905	16.89	1.40
28	28.00	1481	1486	1491	23900	100858	88935	16.16	1.34
29	18.80	960	964	970	27962	97710	83328	15.15	1.26
30	18.57	948	951	955	26005	92926	80056	14.55	1.21
31	8.17	360	361	365	34166	91482	79767	14.50	1.20
32	26.48	1397	1400	1406	26190	91571	77996	14.18	1.18
33	15.40	767	771	775	27602	89229	73923	13.44	1.12
34	9.07	409	412	417	24660	89032	72911	13.25	1.10
35	8.03	351	353	355	23806	81158	72322	13.14	1.09
36	38.12	2057	2061	2070	13413	95205	72276	13.14	1.09
37	21.04	1088	1091	1098	21427	87326	72056	13.10	1.09
38	37.44	2017	2022	2025	19045	88096	70343	12.79	1.06
39	20.75	1070	1075	1079	23457	82703	68743	12.49	1.04
40	37.54	2025	2028	2033	17067	95345	64826	11.78	.98
41	12.68	614	617	623	19312	79976	62259	11.32	.94
42	6.71	274	278	284	19746	75242	60322	10.96	.91
43	4.72	162	165	168	18082	70092	58208	10.58	.88
44	7.56	323	326	333	19231	75464	57078	10.37	.86
45	4.14	129	132	135	17717	70967	57062	10.37	.86

Sum of corrected areas: 6595763.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36
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319670
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255508
323926
253508
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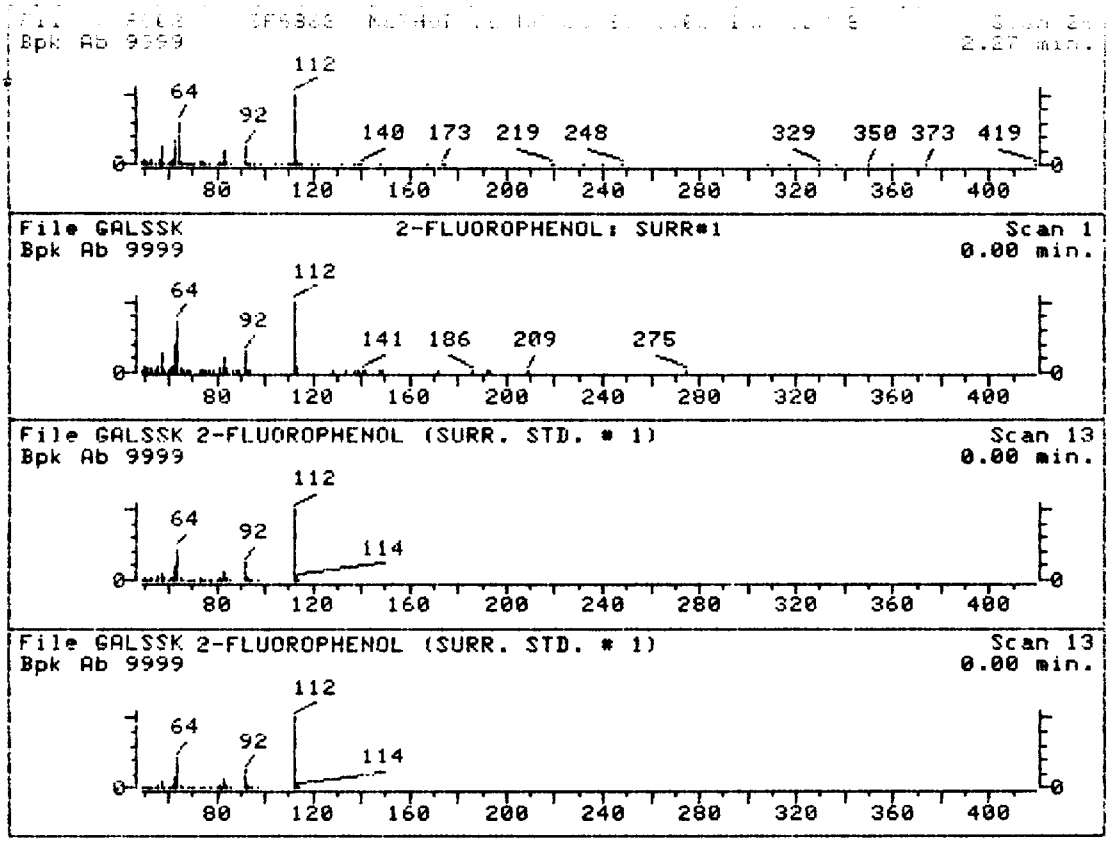
221488
155943
109794

>BP002 [illegible] METHOD BLANK030889 1.0L/1ML 52/55
45.01 445.0 TIC
Upslope: .20 Area Reject: 5.40 % Max Peaks: 12 Bunching: 1
Dnslope: 0.00 Results File VDIR79 Sorted by Area/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% o tot
1	13.01	630	635	638	180976	580596	561911	100.00	15.
2	30.39	1618	1621	1624	211226	499980	489602	87.13	13.
3	15.69	782	787	793	129224	424121	404860	72.05	11.
4	8.11	353	357	364	116500	346772	325852	57.99	8.
5	22.40	1164	1168	1177	90417	351072	323926	57.65	8.
6	32.57	1743	1745	1748	134283	330217	319670	56.89	8.
7	5.85	225	229	233	97035	274002	255508	45.47	6.
8	19.48	998	1002	1010	77741	287640	253508	45.12	6.
9	34.99	1880	1882	1891	85794	281436	252852	45.00	6.
10	4.25	135	138	146	70796	252496	221488	39.42	6.
11	2.27	23	26	33	38088	185488	155943	27.75	4.
12	3.86	113	116	123	33356	137318	109794	19.54	2.

Sum of corrected areas: 3674914.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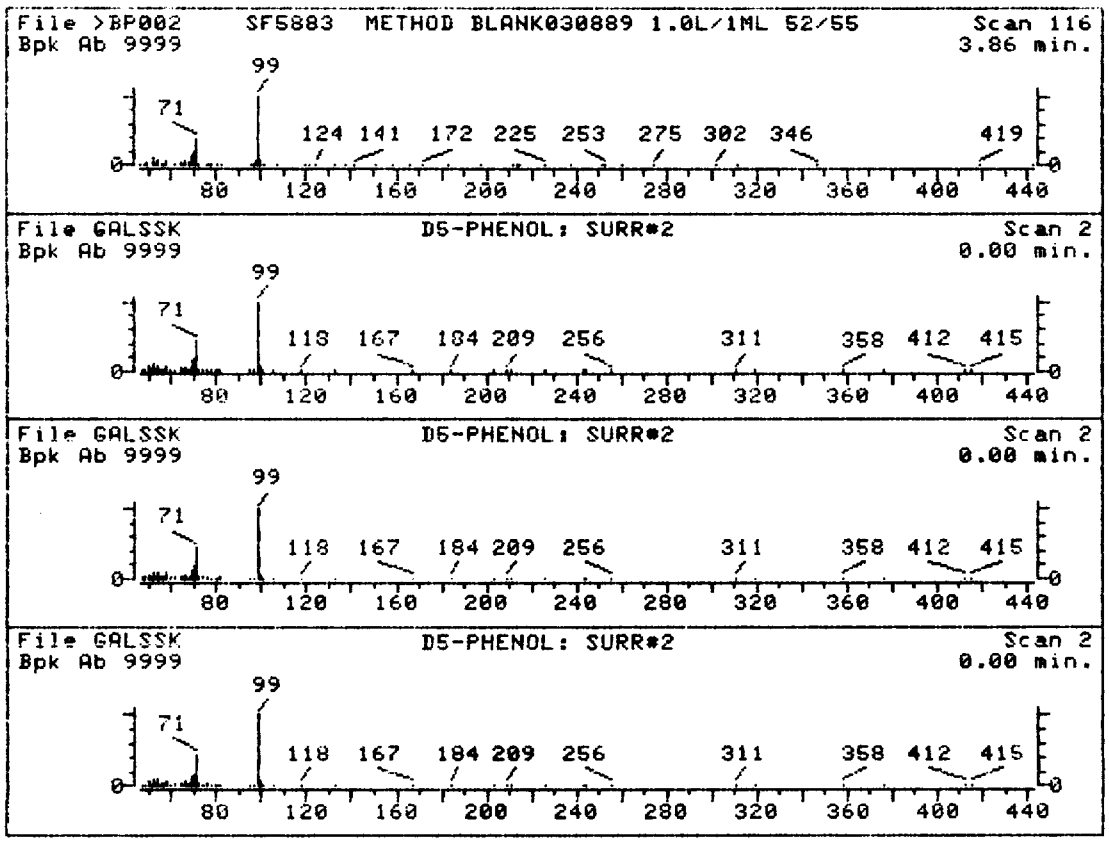
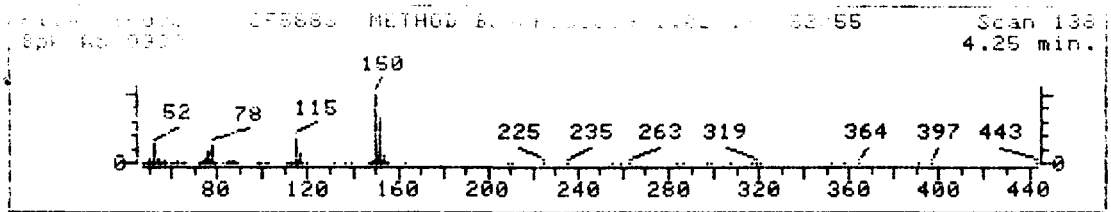
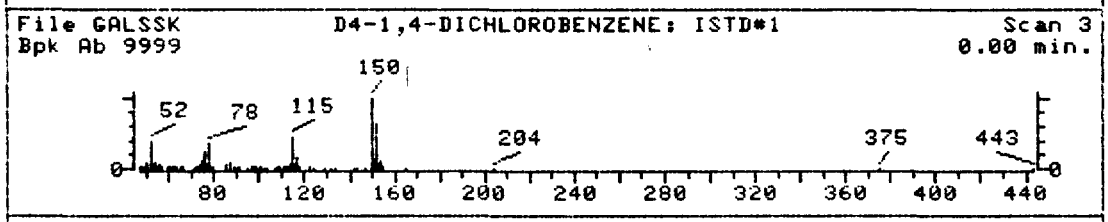
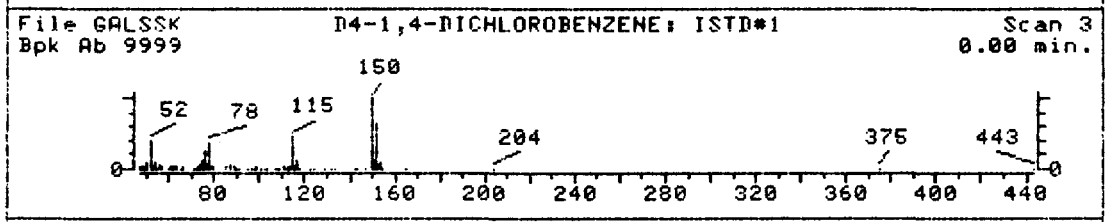
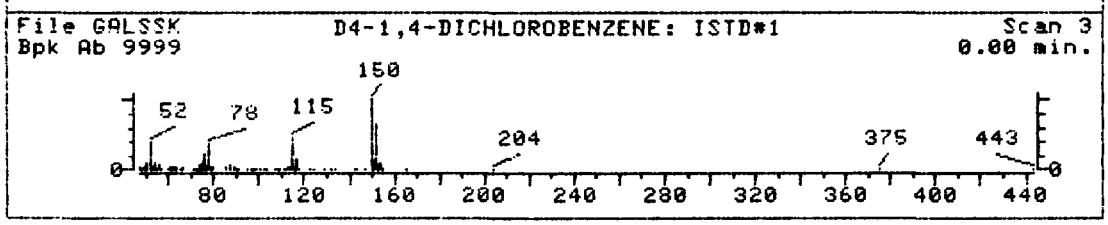
2.27 min.
64
92
112
140 173 219 248
329 350 373 419
File GALSSK
2-FLUOROPHENOL: SURR#1
Scan 1
Bpk Ab 9999
0.00 min.
64
92
112
141 186 209 275
File GALSSK 2-FLUOROPHENOL (SURR. STD. # 1)
Scan 13
Bpk Ab 9999
0.00 min.
64
92
112
114
File GALSSK 2-FLUOROPHENOL (SURR. STD. # 1)
Scan 13
Bpk Ab 9999
0.00 min.
64
92
112
114
80 120 160 200 240 280 320 360 400

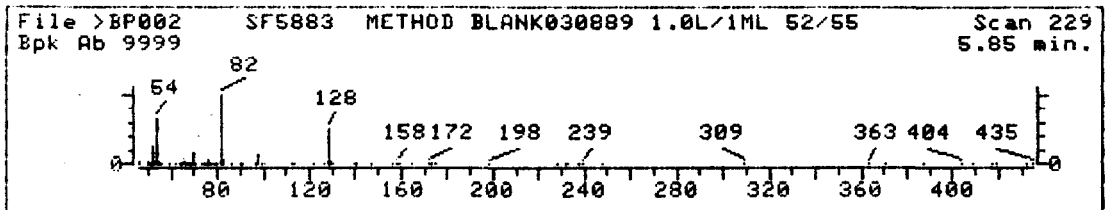

File >BP002
SF5883 METHOD BLANK030889 1.0L/1ML 52/55
Scan 116
Bpk Ab 9999
3.86 min.
71
99
124 141 172 225 253 275 302 346
419
File GALSSK
D5-PHENOL: SURR#2
Scan 2
Bpk Ab 9999
0.00 min.
71
99
118 167 184 209 256 311 358 412 415
File GALSSK
D5-PHENOL: SURR#2
Scan 2
Bpk Ab 9999
0.00 min.
71
99
118 167 184 209 256 311 358 412 415
File GALSSK
D5-PHENOL: SURR#2
Scan 2
Bpk Ab 9999
0.00 min.
71
99
118 167 184 209 256 311 358 412 415
80 120 160 200 240 280 320 360 400 440

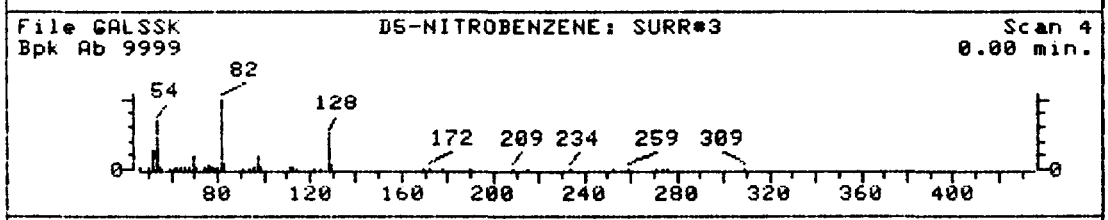

Scan 138
4.25 min.
150
52 78 115 225 235 263 319 364 397 443
80 120 160 200 240 280 320 360 400 440

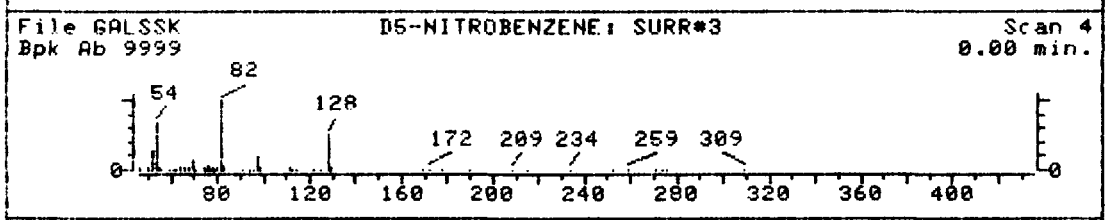

File GALSSK
Bpk Ab 9999
D4-1,4-DICHLOROBENZENE: ISTD#1
Scan 3
0.00 min.
150
52 78 115 204 375 443
80 120 160 200 240 280 320 360 400 440

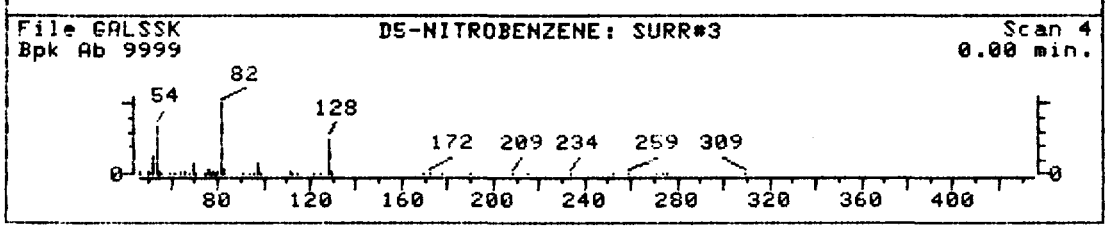

File GALSSK
Bpk Ab 9999
D4-1,4-DICHLOROBENZENE: ISTD#1
Scan 3
0.00 min.
150
52 78 115 204 375 443
80 120 160 200 240 280 320 360 400 440

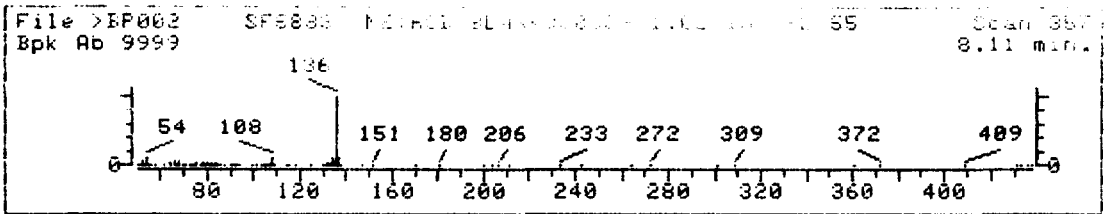

File GALSSK
Bpk Ab 9999
D4-1,4-DICHLOROBENZENE: ISTD#1
Scan 3
0.00 min.
150
52 78 115 204 375 443
80 120 160 200 240 280 320 360 400 440

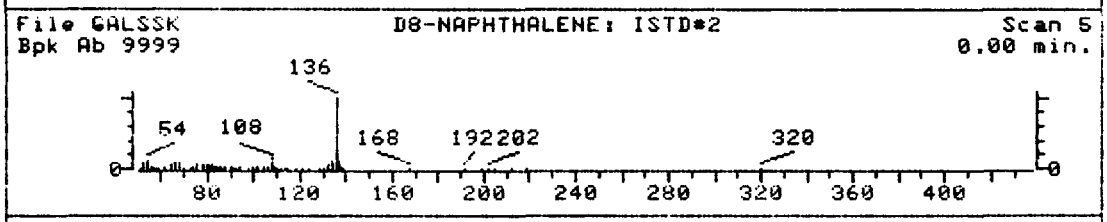

File >BP002 SF5883 METHOD BLANK030889 1.0L/1ML 52/55
Bpk Ab 9999
Scan 229
5.85 min.
82
54 128 158 172 198 239 309 363 404 435
80 120 160 200 240 280 320 360 400

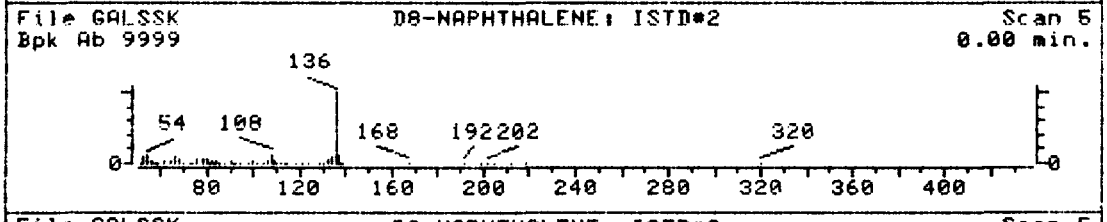

File GALSSK
Bpk Ab 9999
D5-NITROBENZENE: SURR#3
Scan 4
0.00 min.
82
54 128 172 209 234 259 309
80 120 160 200 240 280 320 360 400

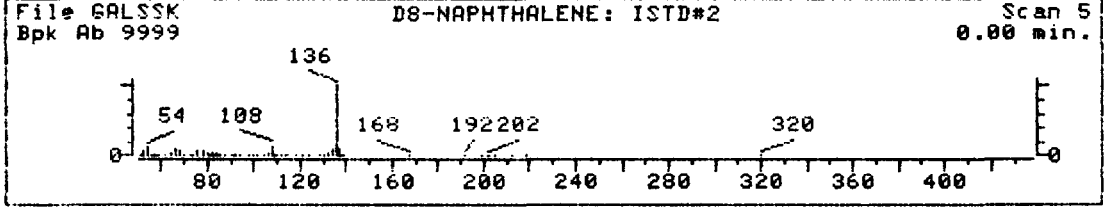

File GALSSK
Bpk Ab 9999
D5-NITROBENZENE: SURR#3
Scan 4
0.00 min.
82
54 128 172 209 234 259 309
80 120 160 200 240 280 320 360 400

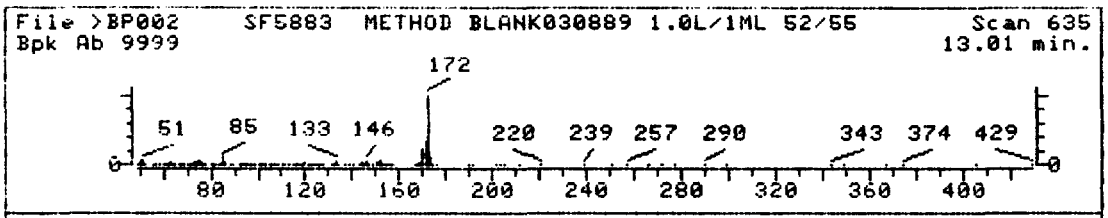

File GALSSK
Bpk Ab 9999
D5-NITROBENZENE: SURR#3
Scan 4
0.00 min.
82
54 128 172 209 234 259 309
80 120 160 200 240 280 320 360 400

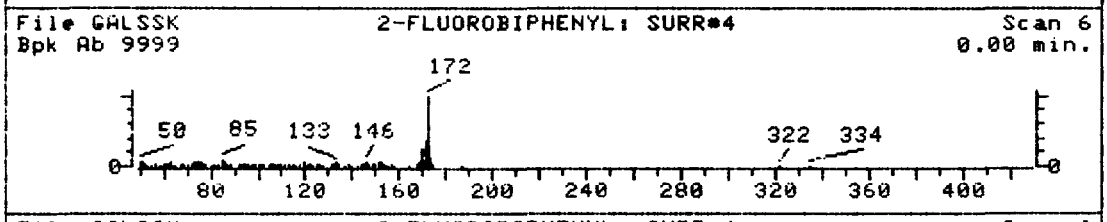

File >BP002
Bpk Ab 9999
8.11 min.
136
54 108 151 180 206 233 272 309 372 409
0 80 120 160 200 240 280 320 360 400

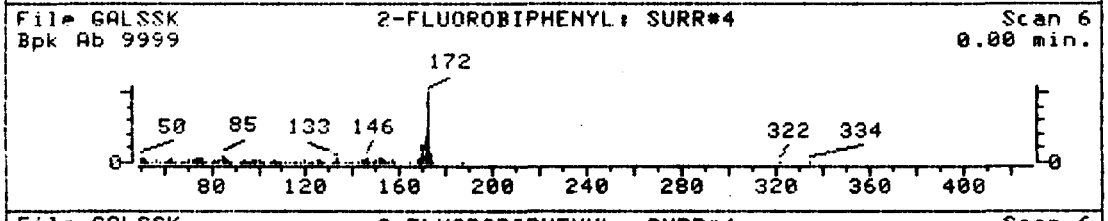

File GALSSK
D8-NAPHTHALENE: ISTD#2
Scan 5
Bpk Ab 9999
0.00 min.
136
54 108 168 192202 320
0 80 120 160 200 240 280 320 360 400

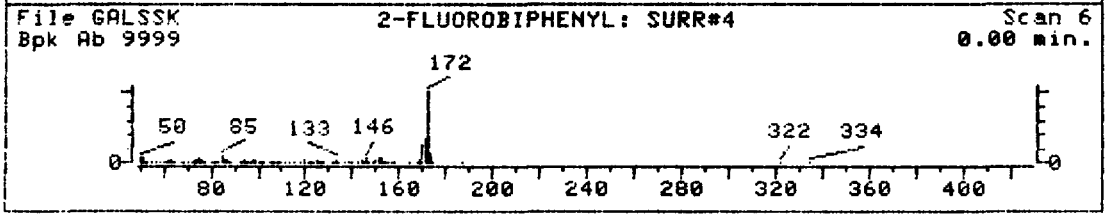

File GALSSK
D8-NAPHTHALENE: ISTD#2
Scan 5
Bpk Ab 9999
0.00 min.
136
54 108 168 192202 320
0 80 120 160 200 240 280 320 360 400

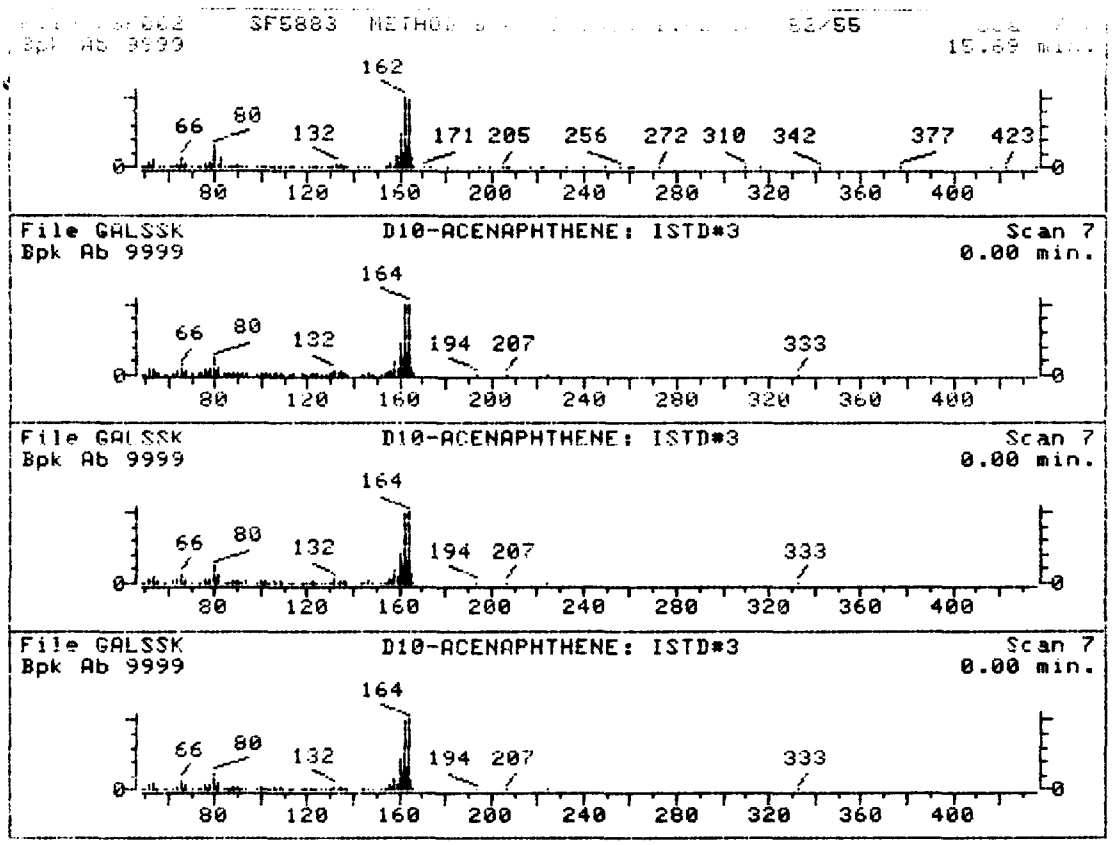

File GALSSK
D8-NAPHTHALENE: ISTD#2
Scan 5
Bpk Ab 9999
0.00 min.
136
54 108 168 192202 320
0 80 120 160 200 240 280 320 360 400

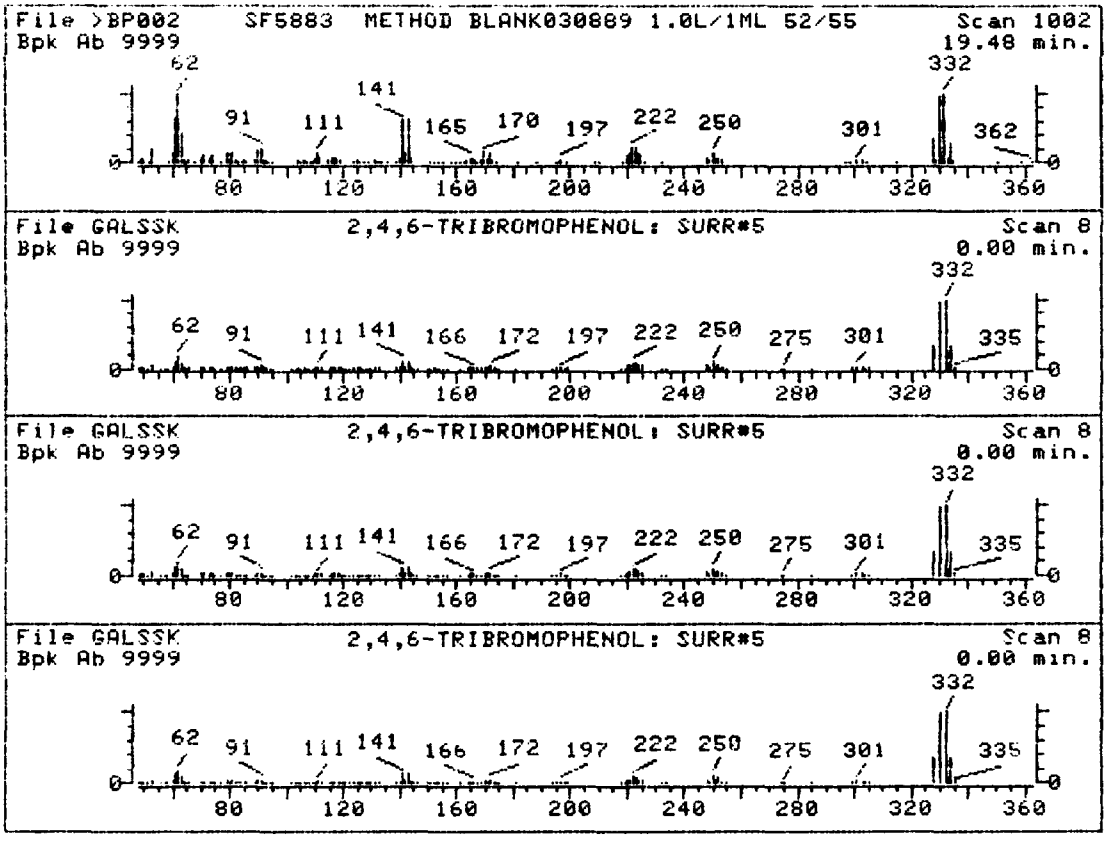

File >BP002
SF5883 METHOD BLANK030889 1.0L/1ML 52/55
Scan 635
Bpk Ab 9999
13.01 min.
172
51 85 133 146 220 239 257 290 343 374 429
0 80 120 160 200 240 280 320 360 400


File GALSSK
2-FLUOROBIPHENYL: SURR#4
Scan 6
Bpk Ab 9999
0.00 min.
172
50 85 133 146 322 334
0 80 120 160 200 240 280 320 360 400

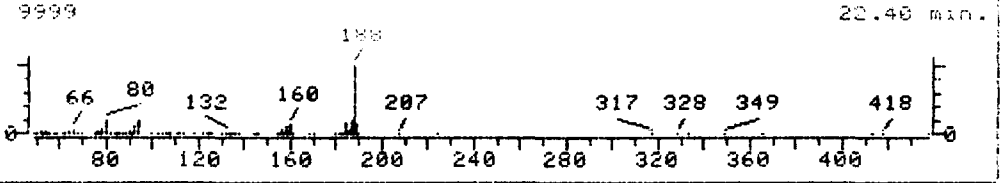

File GALSSK
2-FLUOROBIPHENYL: SURR#4
Scan 6
Bpk Ab 9999
0.00 min.
172
50 85 133 146 322 334
0 80 120 160 200 240 280 320 360 400


File GALSSK
2-FLUOROBIPHENYL: SURR#4
Scan 6
Bpk Ab 9999
0.00 min.
172
50 85 133 146 322 334
0 80 120 160 200 240 280 320 360 400

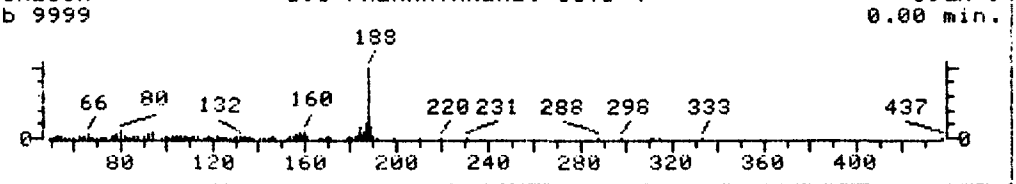

SF5883 METHOD
52/55
Bpk Ab 9999
15.69 min.
162
66 80 132 171 205 256 272 310 342 377 423
File GALSSK
D10-ACENAPHTHENE: ISTD#3
Scan 7
Bpk Ab 9999
0.00 min.
164
66 80 132 194 207 333
File GALSSK
D10-ACENAPHTHENE: ISTD#3
Scan 7
Bpk Ab 9999
0.00 min.
164
66 80 132 194 207 333
File GALSSK
D10-ACENAPHTHENE: ISTD#3
Scan 7
Bpk Ab 9999
0.00 min.
164
66 80 132 194 207 333
0 80 120 160 200 240 280 320 360 400


File >BP002
SF5883 METHOD BLANK030889 1.0L/1ML 52/55
Scan 1002
Bpk Ab 9999
19.48 min.
62 91 111 141 165 170 197 222 250 301 332 362
File GALSSK
2,4,6-TRIBROMOPHENOL: SURR#5
Scan 8
Bpk Ab 9999
0.00 min.
332
62 91 111 141 166 172 197 222 250 275 301 335
File GALSSK
2,4,6-TRIBROMOPHENOL: SURR#5
Scan 8
Bpk Ab 9999
0.00 min.
332
62 91 111 141 166 172 197 222 250 275 301 335
File GALSSK
2,4,6-TRIBROMOPHENOL: SURR#5
Scan 8
Bpk Ab 9999
0.00 min.
332
62 91 111 141 166 172 197 222 250 275 301 335
0 80 120 160 200 240 280 320 360

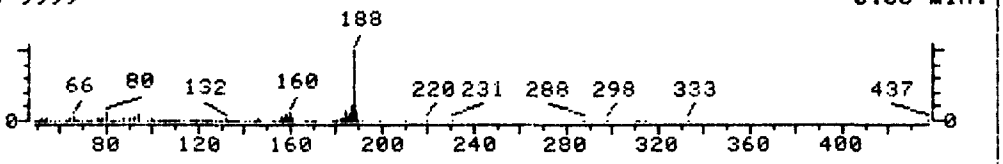
File >BF002 SF5883 METHOD [illegible] 52/55 Scan 1[illegible]
Bpk Ab 9999 22.40 min.



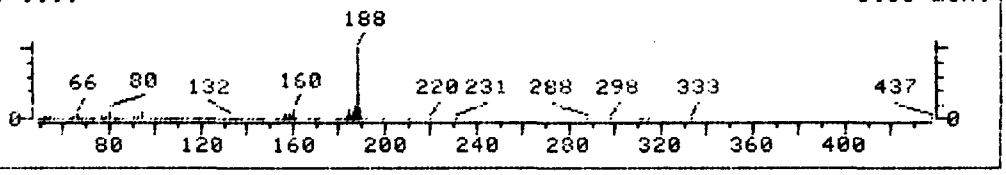
File GALSSK D10-PHENANTHRENE: ISTD#4 Scan 9
Bpk Ab 9999 0.00 min.



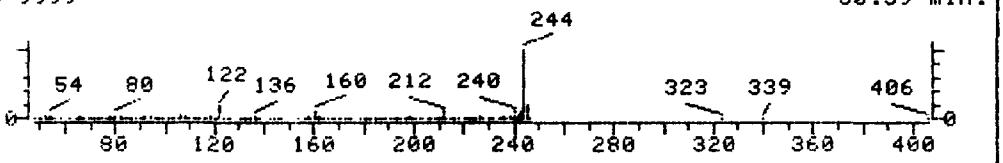
File GALSSK D10-PHENANTHRENE: ISTD#4 Scan 9
Bpk Ab 9999 0.00 min.



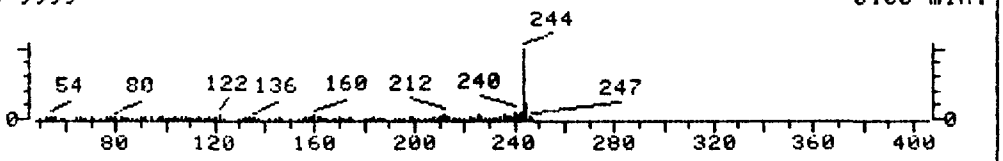
File GALSSK D10-PHENANTHRENE: ISTD#4 Scan 9
Bpk Ab 9999 0.00 min.



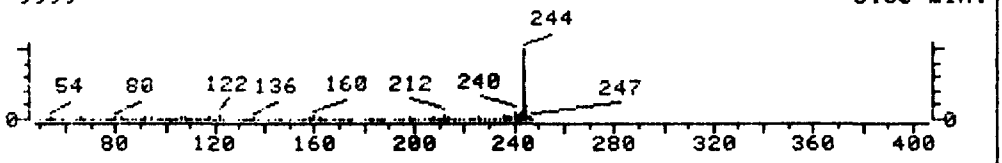
File >BF002 SF5883 METHOD BLANK030889 1.0L/1ML 52/55 Scan 1621
Bpk Ab 9999 30.39 min.



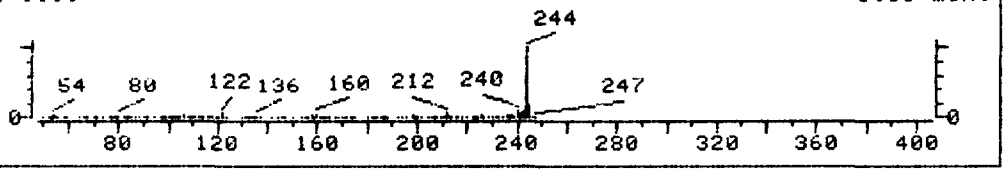
File GALSSK D14-TERPHENYL: SURR#6 Scan 10
Bpk Ab 9999 0.00 min.

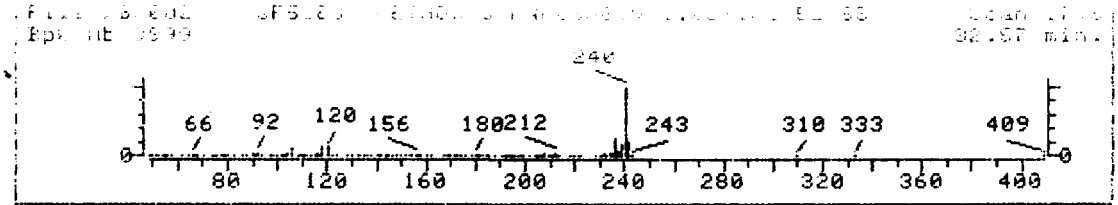


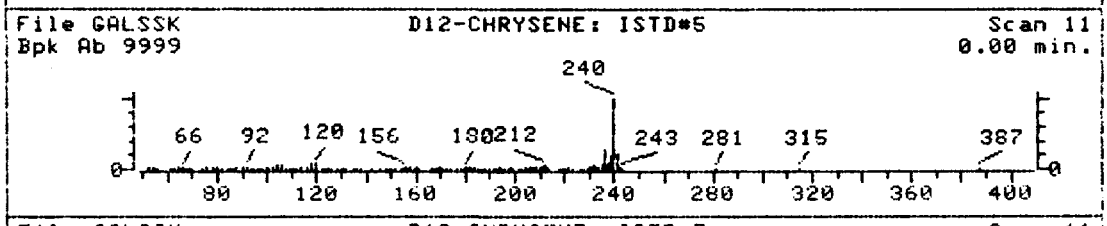
File GALSSK D14-TERPHENYL: SURR#6 Scan 10
Bpk Ab 9999 0.00 min.

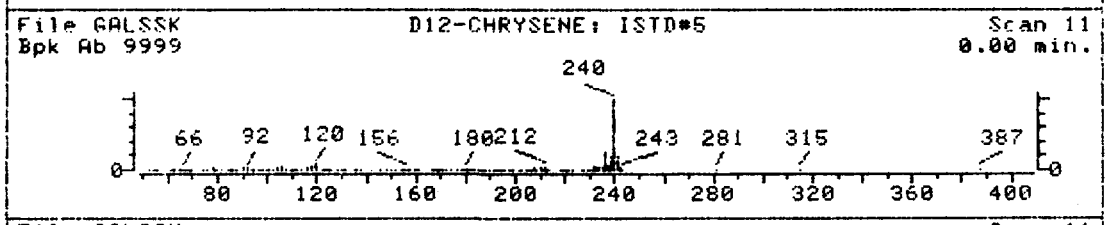


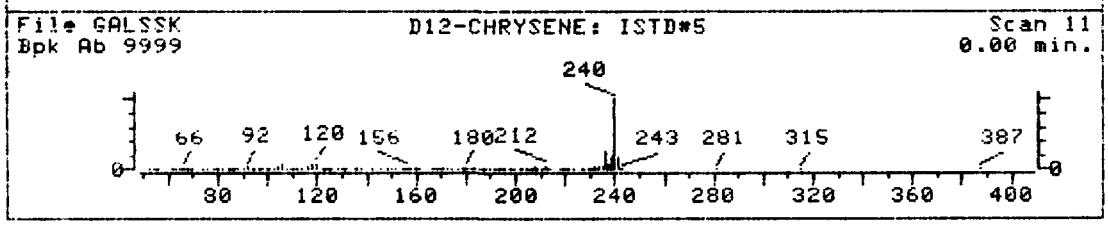
File GALSSK D14-TERPHENYL: SURR#6 Scan 10
Bpk Ab 9999 0.00 min.

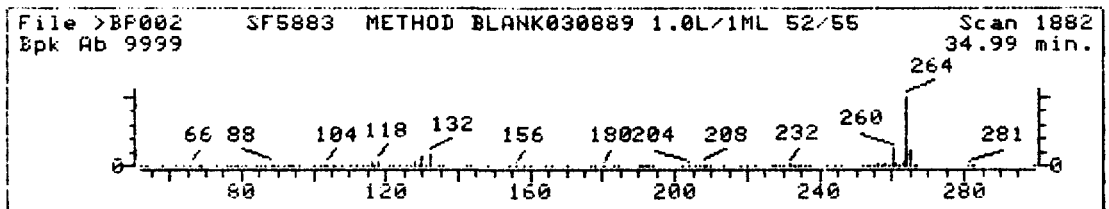


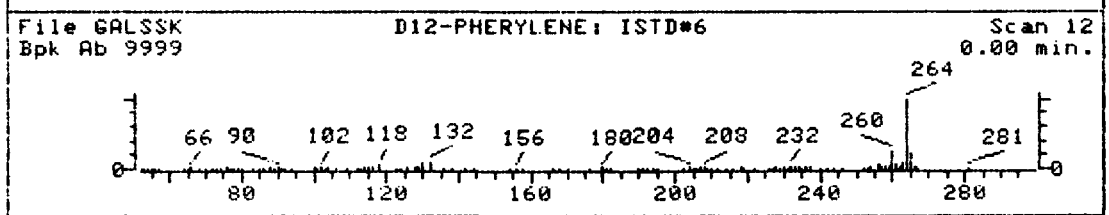

Bpk Ab 9999
32.57 min.
240
66 92 120 156 180212 243 310 333 409
0 80 120 160 200 240 280 320 360 400

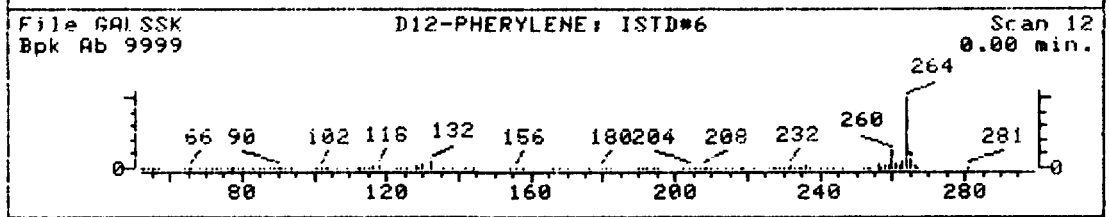

File GALSSK
D12-CHRYSENE: ISTD#5
Scan 11
Bpk Ab 9999
0.00 min.
240
66 92 120 156 180212 243 281 315 387
0 80 120 160 200 240 280 320 360 400

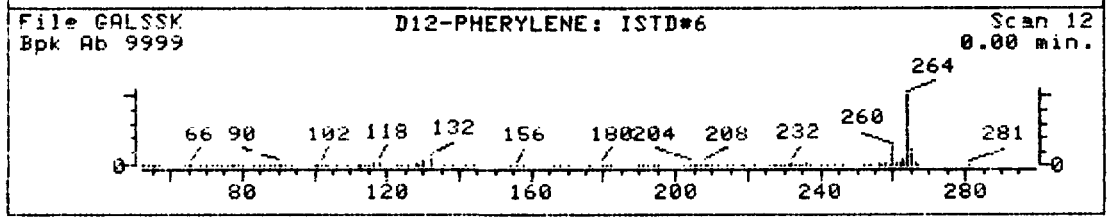

File GALSSK
D12-CHRYSENE: ISTD#5
Scan 11
Bpk Ab 9999
0.00 min.
240
66 92 120 156 180212 243 281 315 387
0 80 120 160 200 240 280 320 360 400

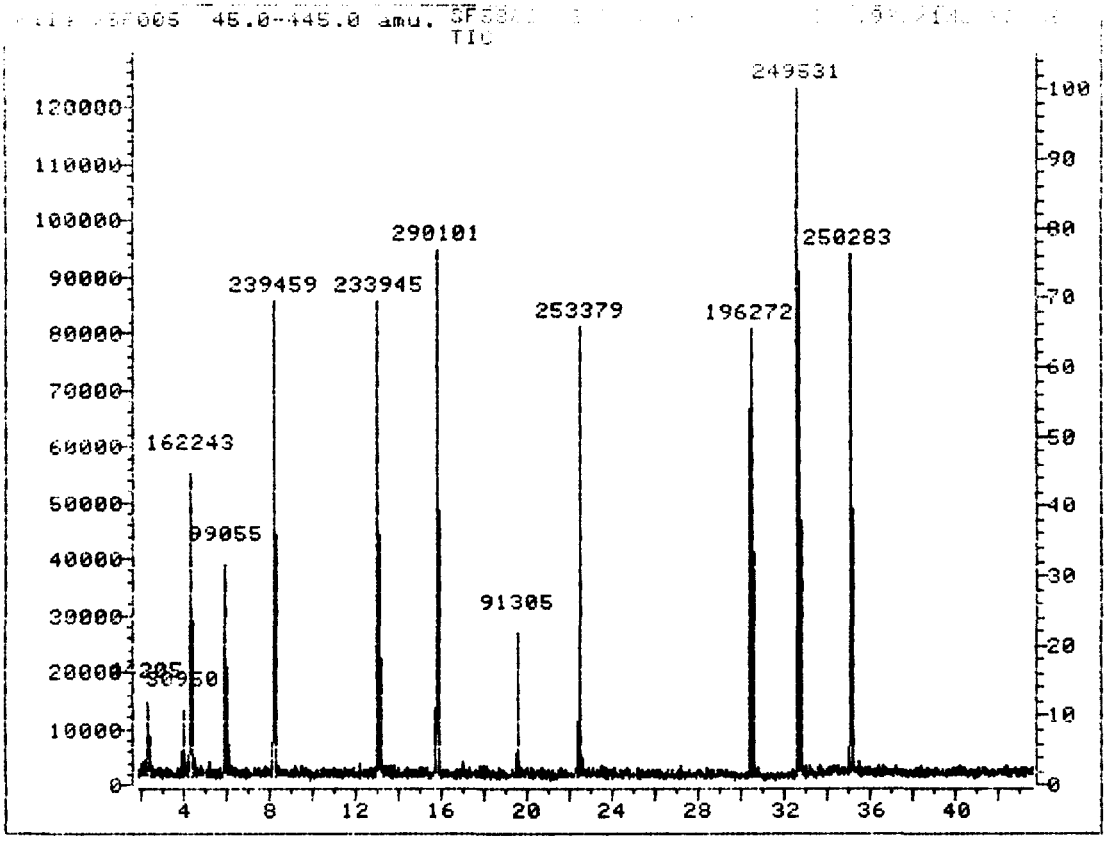

File GALSSK
D12-CHRYSENE: ISTD#5
Scan 11
Bpk Ab 9999
0.00 min.
240
66 92 120 156 180212 243 281 315 387
0 80 120 160 200 240 280 320 360 400


File >BF002 SF5883 METHOD BLANK030889 1.0L/1ML 52/55
Scan 1882
Bpk Ab 9999
34.99 min.
264
66 88 104 118 132 156 180204 208 232 260 281
0 80 120 160 200 240 280


File GALSSK
D12-PHERYLENE: ISTD#6
Scan 12
Bpk Ab 9999
0.00 min.
264
66 90 102 118 132 156 180204 208 232 260 281
0 80 120 160 200 240 280


File GALSSK
D12-PHERYLENE: ISTD#6
Scan 12
Bpk Ab 9999
0.00 min.
264
66 90 102 118 132 156 180204 208 232 260 281
0 80 120 160 200 240 280

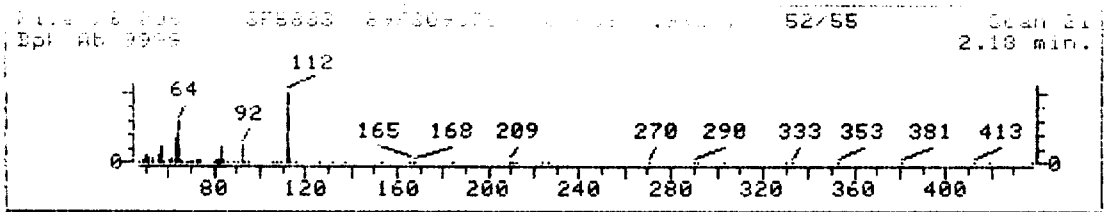

File GALSSK
D12-PHERYLENE: ISTD#6
Scan 12
Bpk Ab 9999
0.00 min.
264
66 90 102 118 132 156 180204 208 232 260 281
0 80 120 160 200 240 280

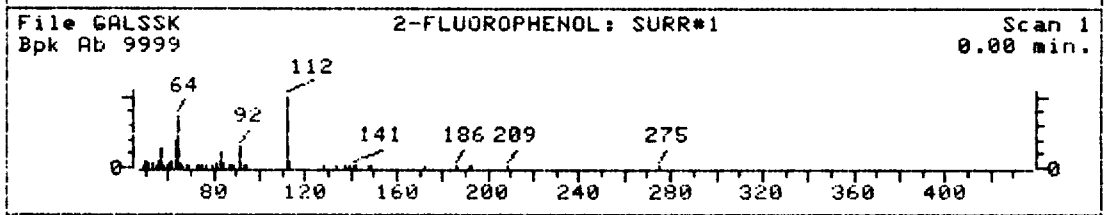

45.0-445.0 amu.
TIC
249531
290101
250283
239459
233945
253379
196272
162243
99055
91305
120000
110000
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
100
90
80
70
60
50
40
30
20
10
0
4
8
12
16
20
24
28
32
36
40

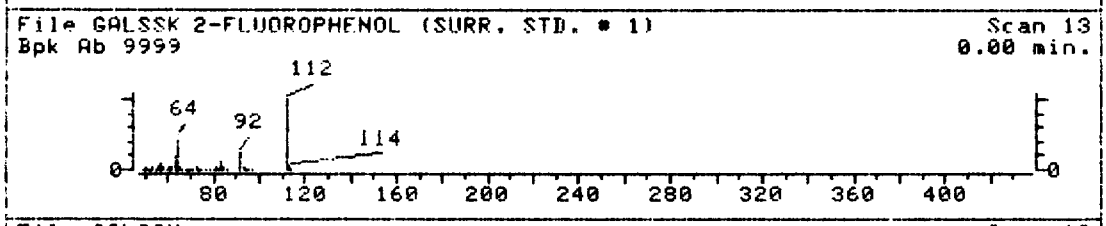
SEP005 SP5883 [illegible] .99L/1ML 52/59
45.01 445.0 TIC
Upslope: .20 Area Reject: 5.40 % Max Peaks: 12 Bunching: 1
Dnslope: 0.00 Results File VDIR79 Sorted by Area/Area INT

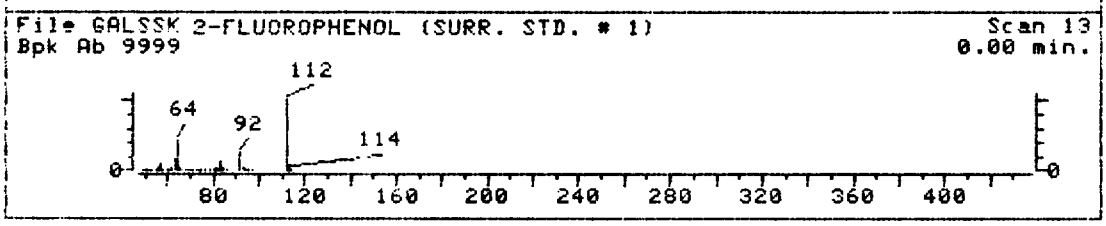
Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% c tot
1	15.70	783	788	792	92576	311320	290101	100.00	13.
2	22.39	1164	1168	1173	79640	269470	253379	87.34	11.
3	34.97	1879	1882	1888	91909	270259	250283	86.27	11.
4	32.56	1743	1745	1748	121306	261490	249531	86.02	11.
5	8.12	354	358	365	84242	256807	239459	82.54	11.
6	13.00	631	635	641	83225	260778	233945	80.64	10.
7	30.38	1617	1621	1624	79495	207167	196272	67.66	9.
8	4.24	133	138	143	53439	180476	162243	55.93	7.
9	5.85	227	229	235	36557	119556	99055	34.15	4.
10	19.47	999	1002	1008	25390	106824	91305	31.47	4.
11	2.18	16	21	26	12724	65317	44205	15.24	2.
12	3.86	114	116	121	11198	46721	30950	10.67	1.

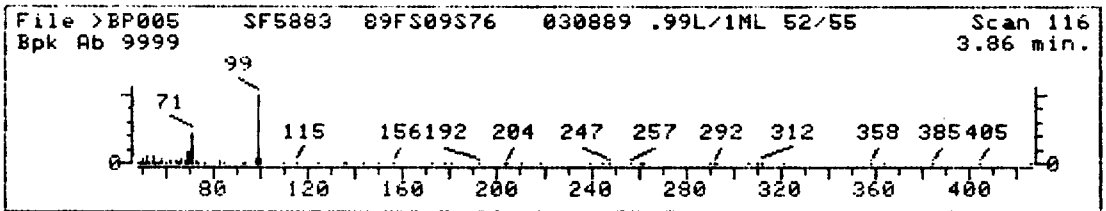
Sum of corrected areas: 2140728.

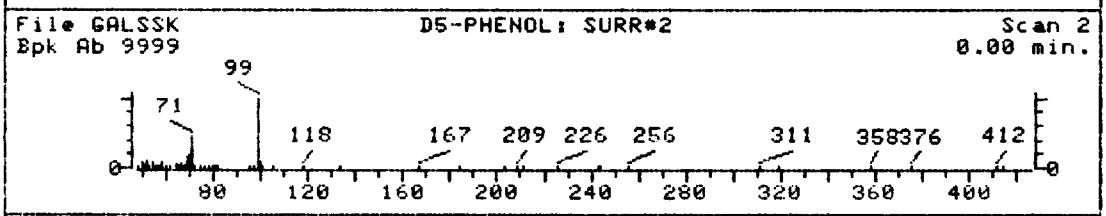

52/55
Scan 21
2.18 min.
112
64
92
165 168 209 270 290 333 353 381 413
0 80 120 160 200 240 280 320 360 400

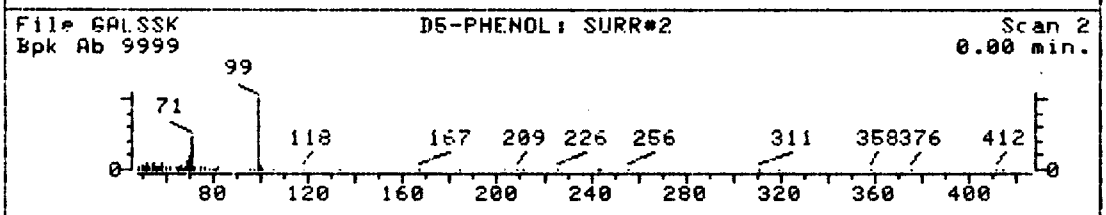

File GALSSK
2-FLUOROPHENOL: SURR#1
Scan 1
Bpk Ab 9999
0.00 min.
112
64
92
141 186 209 275
0 80 120 160 200 240 280 320 360 400

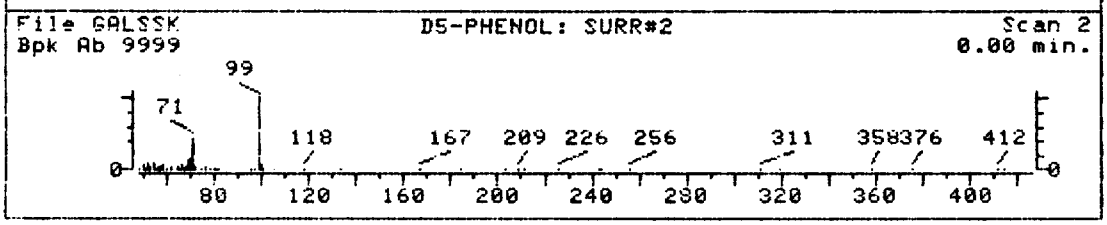

File GALSSK 2-FLUOROPHENOL (SURR. STD. # 1)
Scan 13
Bpk Ab 9999
0.00 min.
112
64
92
114
0 80 120 160 200 240 280 320 360 400


File GALSSK 2-FLUOROPHENOL (SURR. STD. # 1)
Scan 13
Bpk Ab 9999
0.00 min.
112
64
92
114
0 80 120 160 200 240 280 320 360 400

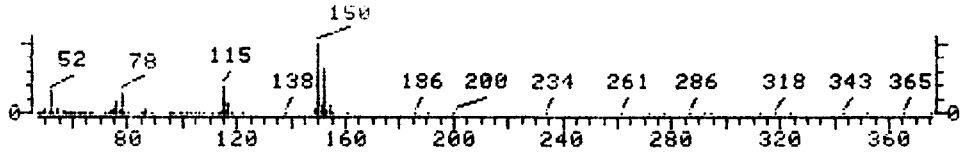

File >BP005 SF5883 89FS09S76 030889 .99L/1ML 52/55
Scan 116
Bpk Ab 9999
3.86 min.
99
71
115 156192 204 247 257 292 312 358 385405
0 80 120 160 200 240 280 320 360 400


File GALSSK
D5-PHENOL: SURR#2
Scan 2
Bpk Ab 9999
0.00 min.
99
71
118 167 209 226 256 311 358376 412
0 80 120 160 200 240 280 320 360 400

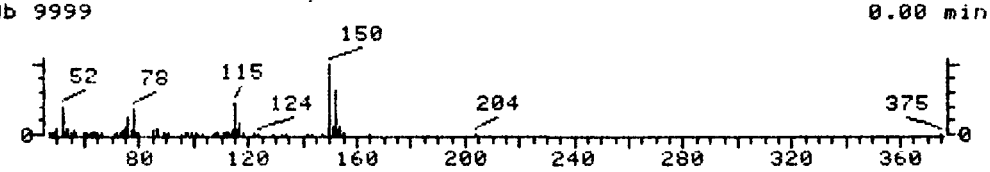

File GALSSK
D5-PHENOL: SURR#2
Scan 2
Bpk Ab 9999
0.00 min.
99
71
118 167 209 226 256 311 358376 412
0 80 120 160 200 240 280 320 360 400


File GALSSK
D5-PHENOL: SURR#2
Scan 2
Bpk Ab 9999
0.00 min.
99
71
118 167 209 226 256 311 358376 412
0 80 120 160 200 240 280 320 360 400

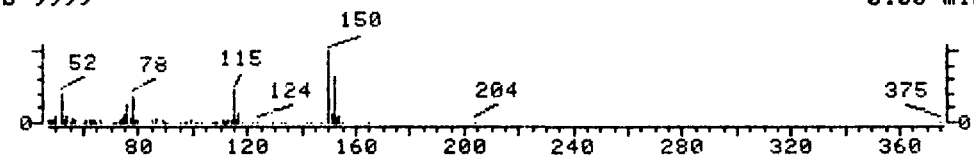
File [illegible] SF5883 89FS09[illegible] 52/55 Scan 138
Bpk Ab 9999 4.24 min.



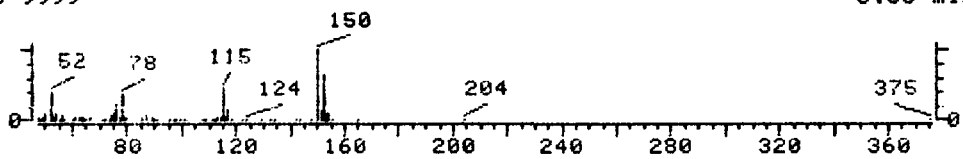
File GALSSK D4-1,4-DICHLOROBENZENE: ISTD#1 Scan 3
Bpk Ab 9999 0.00 min.



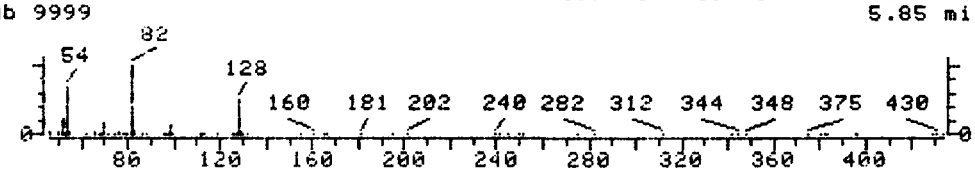
File GALSSK D4-1,4-DICHLOROBENZENE: ISTD#1 Scan 3
Bpk Ab 9999 0.00 min.



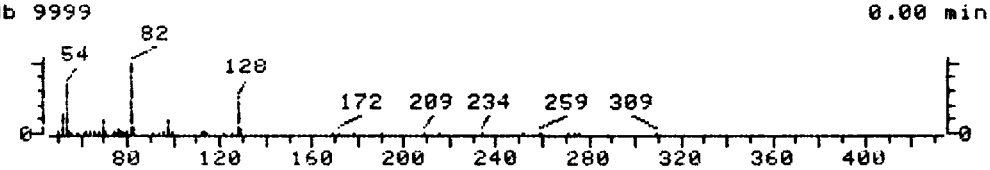
File GALSSK D4-1,4-DICHLOROBENZENE: ISTD#1 Scan 3
Bpk Ab 9999 0.00 min.



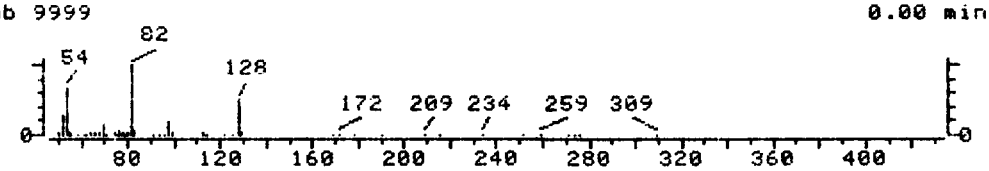
File >BF005 SF5883 89FS09S76 030889 .99L/1ML 52/55 Scan 229
Bpk Ab 9999 5.85 min.



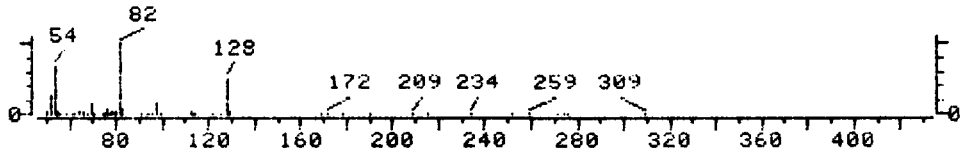
File GALSSK D5-NITROBENZENE: SURR#3 Scan 4
Bpk Ab 9999 0.00 min.

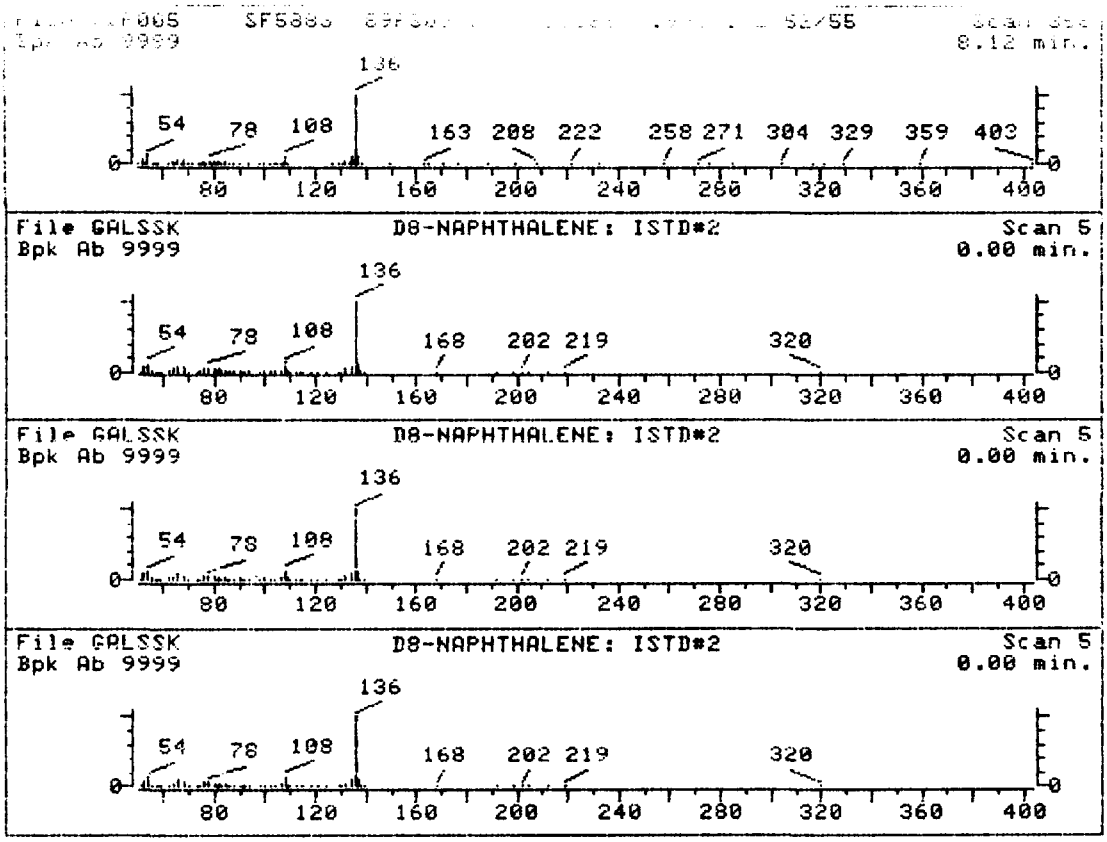


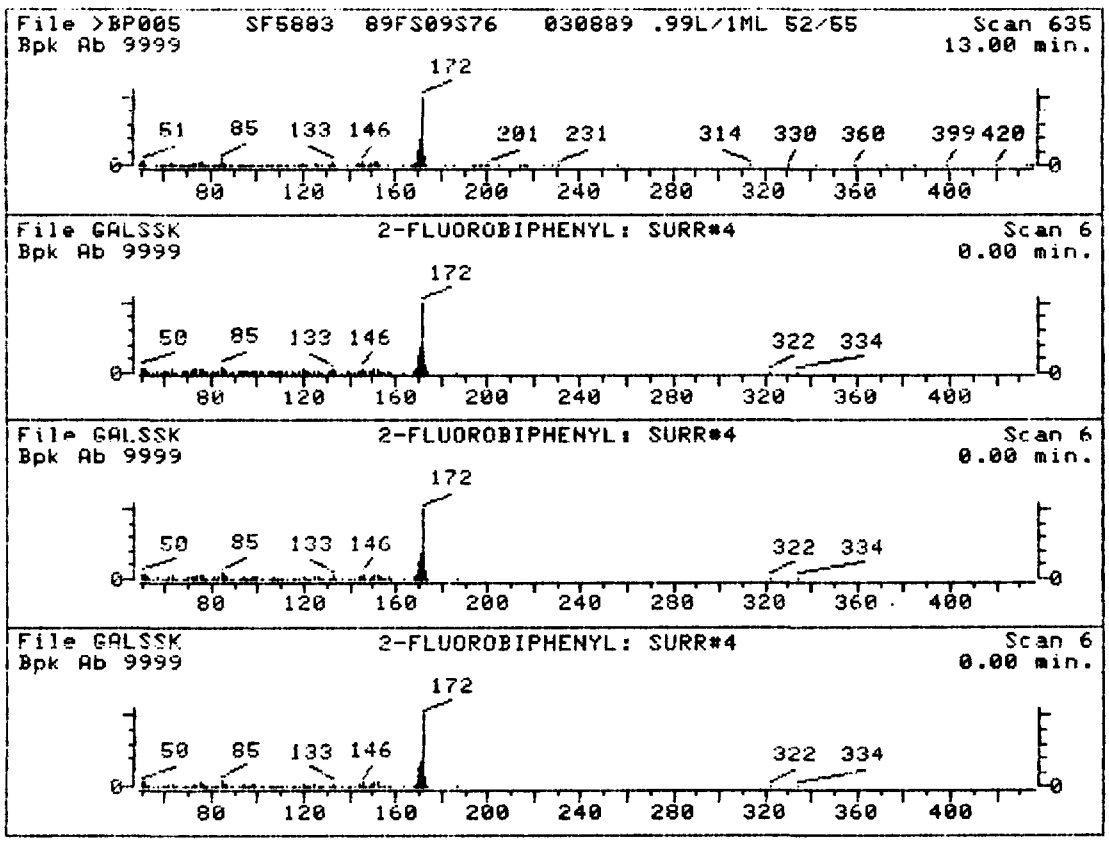
File GALSSK D5-NITROBENZENE: SURR#3 Scan 4
Bpk Ab 9999 0.00 min.

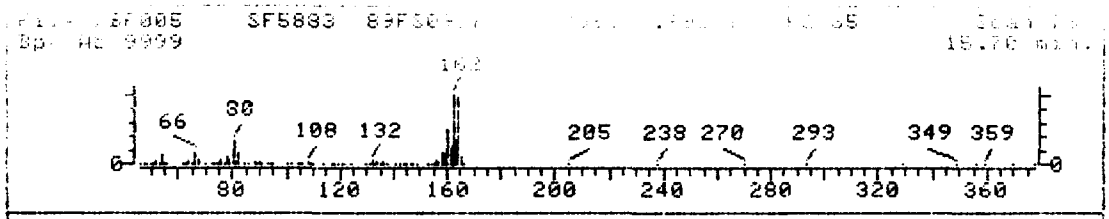


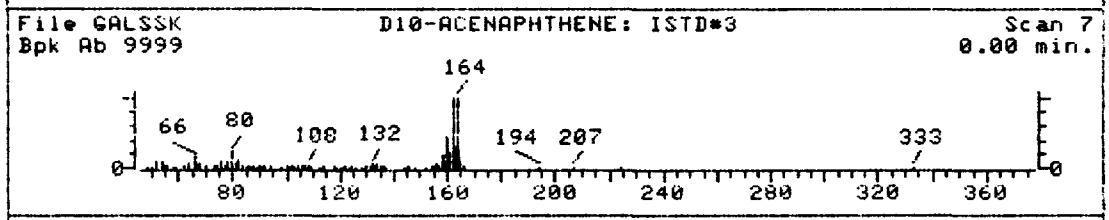
File GALSSK D5-NITROBENZENE: SURR#3 Scan 4
Bpk Ab 9999 0.00 min.

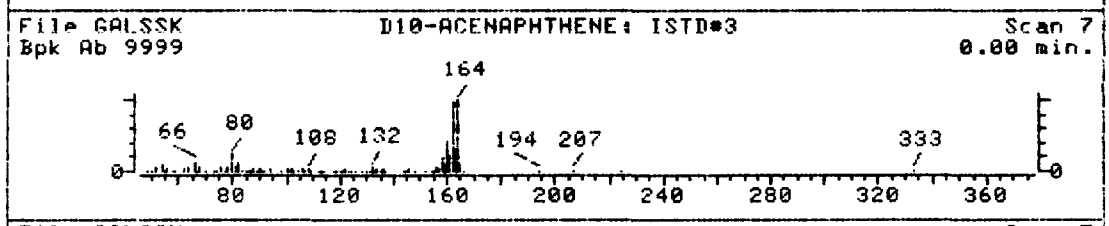


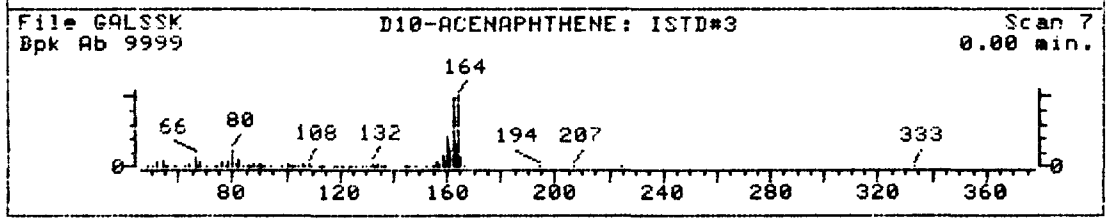

File GALSSK
Bpk Ab 9999
D8-NAPHTHALENE: ISTD#2
Scan 5
0.00 min.
136
54 78 108 168 202 219 320
80 120 160 200 240 280 320 360 400

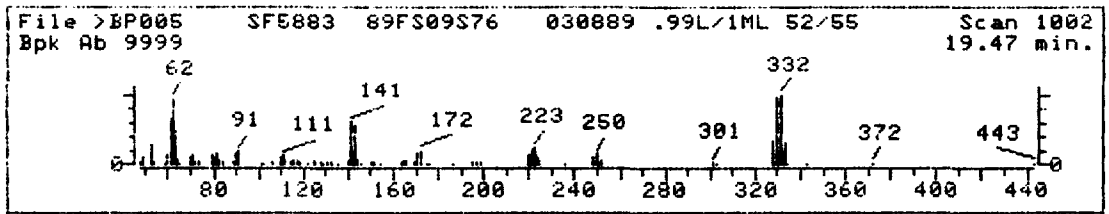

File >BP005 SF5883 89FS09S76 030889 .99L/1ML 52/55
Scan 635
13.00 min.
Bpk Ab 9999
172
51 85 133 146 201 231 314 330 360 399 420
80 120 160 200 240 280 320 360 400
File GALSSK
2-FLUOROBIPHENYL: SURR#4
Scan 6
0.00 min.
Bpk Ab 9999
172
50 85 133 146 322 334
80 120 160 200 240 280 320 360 400

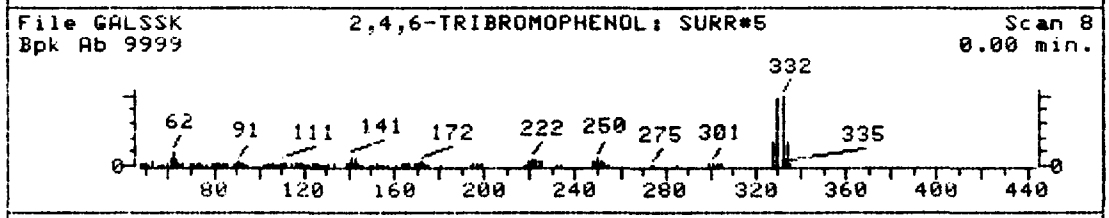

Bpk Ab 9999
15.70 min.
66
80
108
132
162
205
238
270
293
349
359
80 120 160 200 240 280 320 360

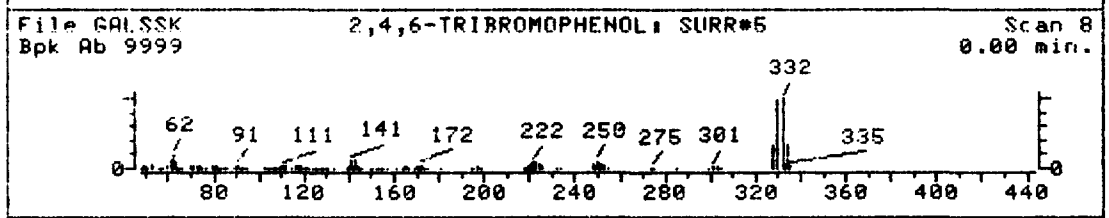

File GALSSK
D10-ACENAPHTHENE: ISTD#3
Scan 7
Bpk Ab 9999
0.00 min.
164
66
80
108
132
194
207
333
80 120 160 200 240 280 320 360

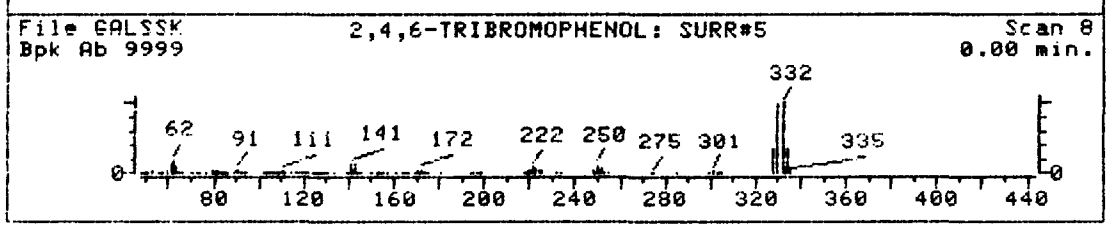

File GALSSK
D10-ACENAPHTHENE: ISTD#3
Scan 7
Bpk Ab 9999
0.00 min.
164
66
80
108
132
194
207
333
80 120 160 200 240 280 320 360

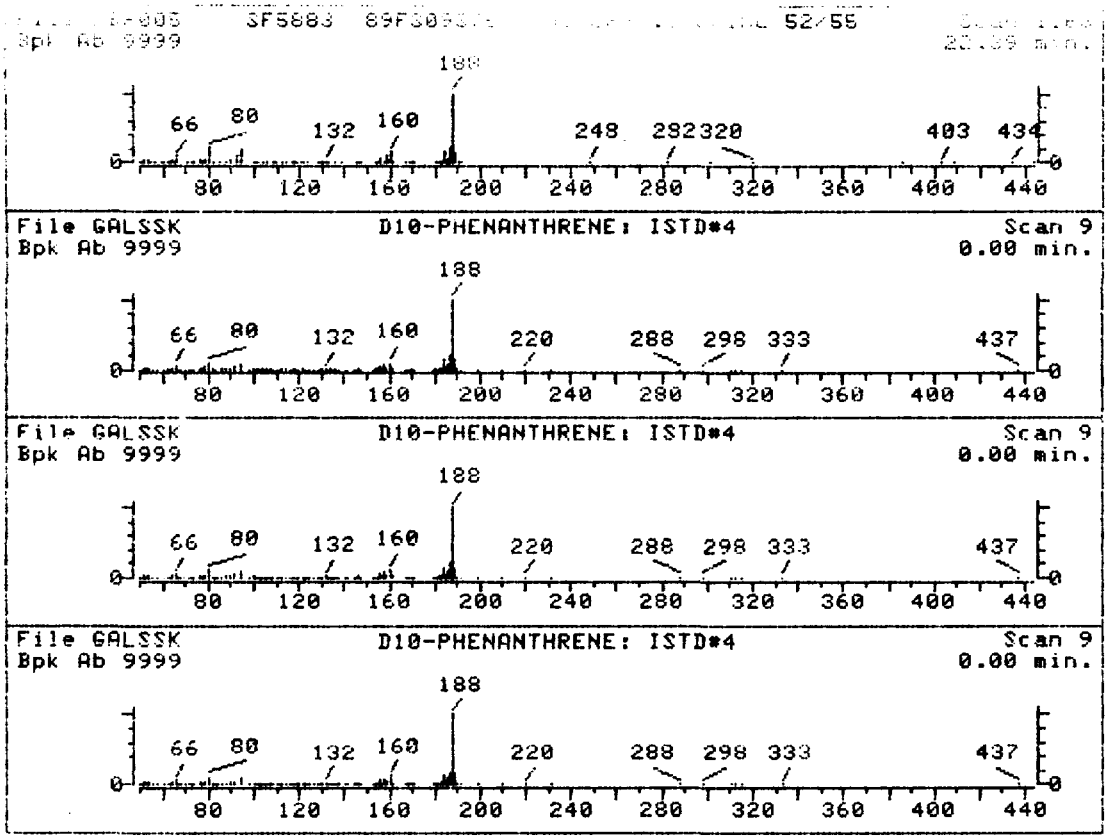

File GALSSK
D10-ACENAPHTHENE: ISTD#3
Scan 7
Bpk Ab 9999
0.00 min.
164
66
80
108
132
194
207
333
80 120 160 200 240 280 320 360

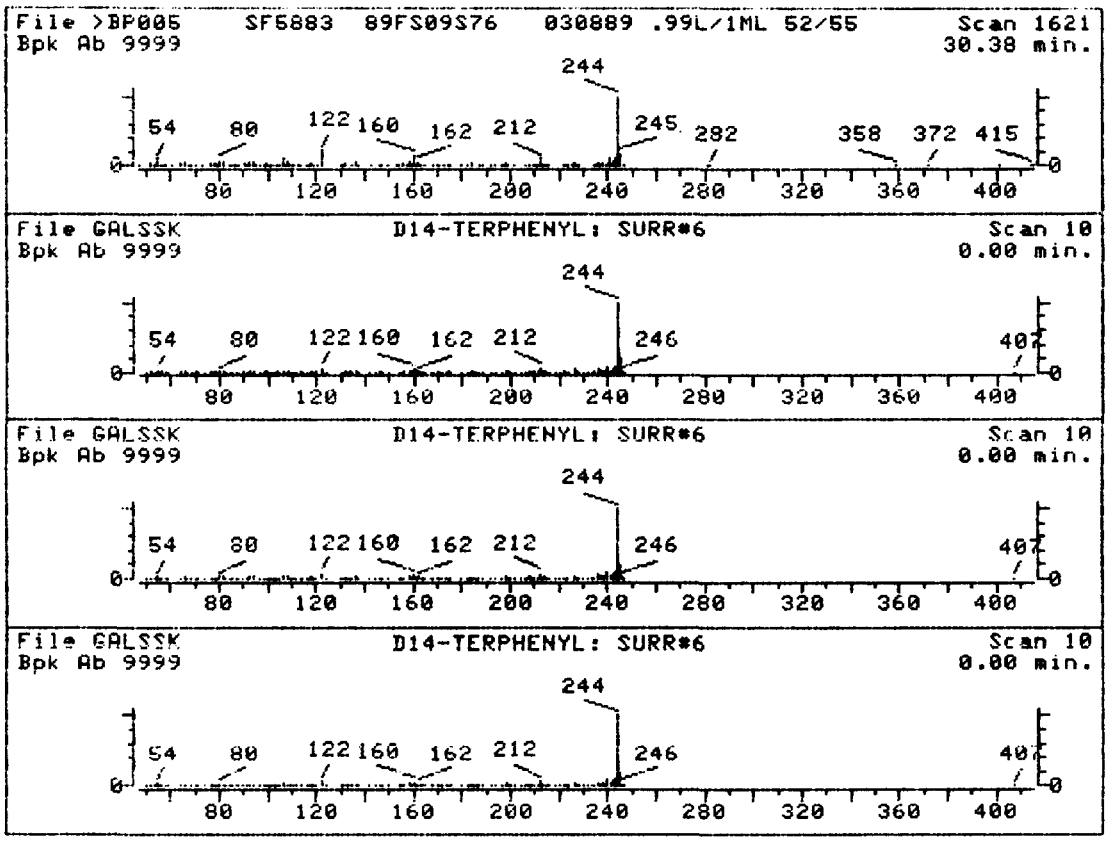

File >BP005 SF5883 89FS09S76 030889 .99L/1ML 52/55
Scan 1002
Bpk Ab 9999
19.47 min.
62
91
111
141
172
223
250
301
332
372
443
80 120 160 200 240 280 320 360 400 440

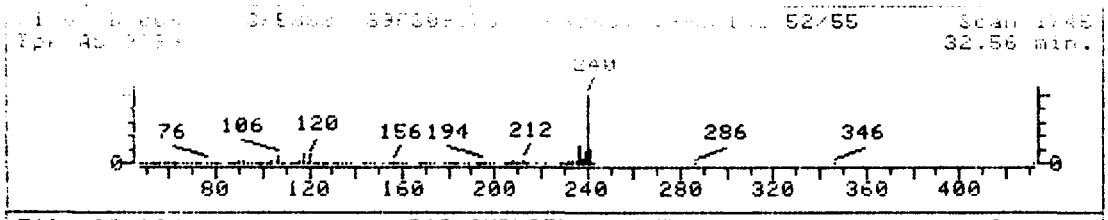

File GALSSK
2,4,6-TRIBROMOPHENOL: SURR#5
Scan 8
Bpk Ab 9999
0.00 min.
332
62
91
111
141
172
222
250
275
301
335
80 120 160 200 240 280 320 360 400 440

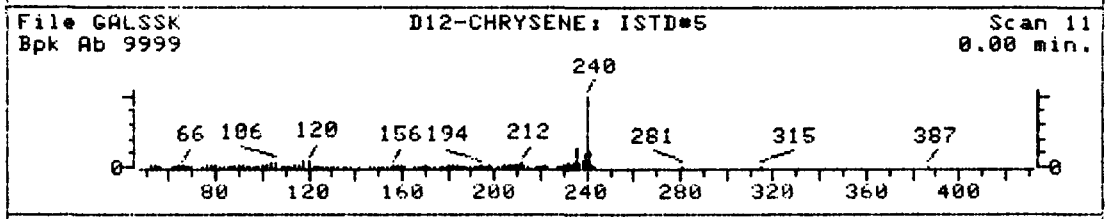

File GALSSK
2,4,6-TRIBROMOPHENOL: SURR#5
Scan 8
Bpk Ab 9999
0.00 min.
332
62
91
111
141
172
222
250
275
301
335
80 120 160 200 240 280 320 360 400 440

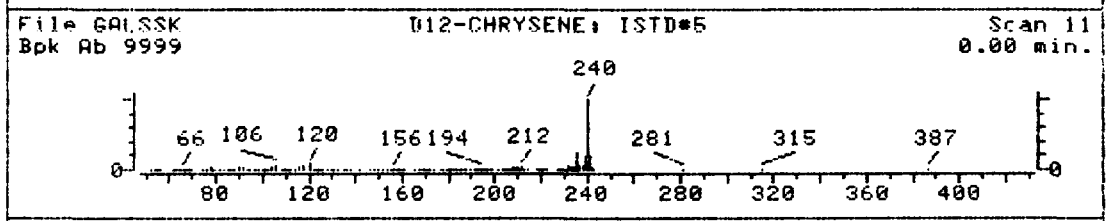

File GALSSK
2,4,6-TRIBROMOPHENOL: SURR#5
Scan 8
Bpk Ab 9999
0.00 min.
332
62
91
111
141
172
222
250
275
301
335
80 120 160 200 240 280 320 360 400 440

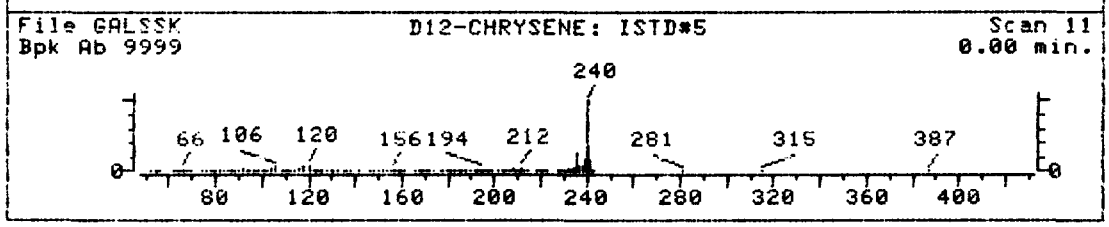

SF5883 89F309S76 52/55
Bpk Ab 9999
188
66 80 132 160 248 282 320 403 434
File GALSSK D10-PHENANTHRENE: ISTD#4 Scan 9
Bpk Ab 9999 0.00 min.
188
66 80 132 160 220 288 298 333 437
File GALSSK D10-PHENANTHRENE: ISTD#4 Scan 9
Bpk Ab 9999 0.00 min.
188
66 80 132 160 220 288 298 333 437
File GALSSK D10-PHENANTHRENE: ISTD#4 Scan 9
Bpk Ab 9999 0.00 min.
188
66 80 132 160 220 288 298 333 437
0 80 120 160 200 240 280 320 360 400 440

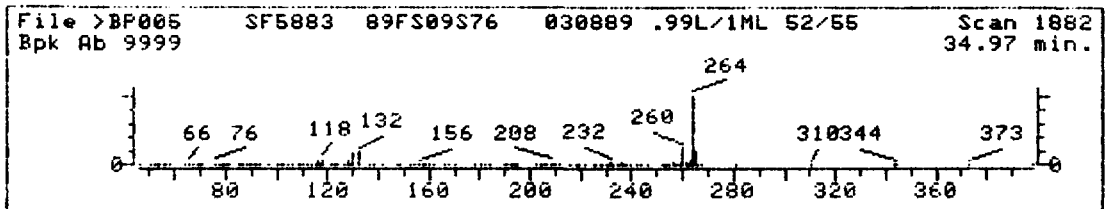

File >BP005 SF5883 89FS09S76 030889 .99L/1ML 52/55 Scan 1621
Bpk Ab 9999 30.38 min.
244
54 80 122 160 162 212 245 282 358 372 415
File GALSSK D14-TERPHENYL: SURR#6 Scan 10
Bpk Ab 9999 0.00 min.
244
54 80 122 160 162 212 246 407
File GALSSK D14-TERPHENYL: SURR#6 Scan 10
Bpk Ab 9999 0.00 min.
244
54 80 122 160 162 212 246 407
File GALSSK D14-TERPHENYL: SURR#6 Scan 10
Bpk Ab 9999 0.00 min.
244
54 80 122 160 162 212 246 407
0 80 120 160 200 240 280 320 360 400

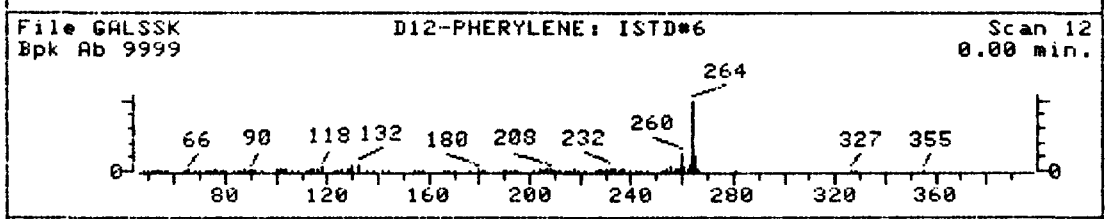

52/55
32.56 min.
240
76 106 120 156 194 212 286 346
80 120 160 200 240 280 320 360 400

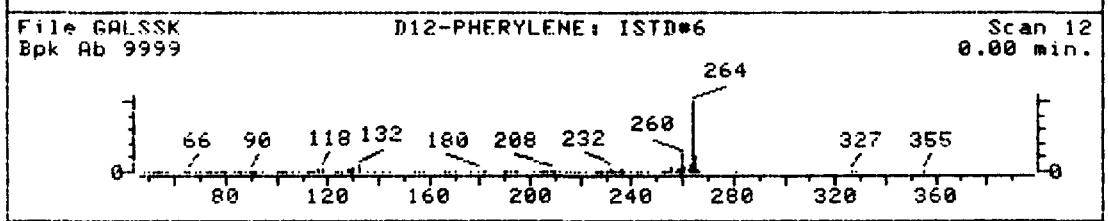

File GALSSK
Bpk Ab 9999
D12-CHRYSENE: ISTD#5
Scan 11
0.00 min.
240
66 106 120 156 194 212 281 315 387
80 120 160 200 240 280 320 360 400

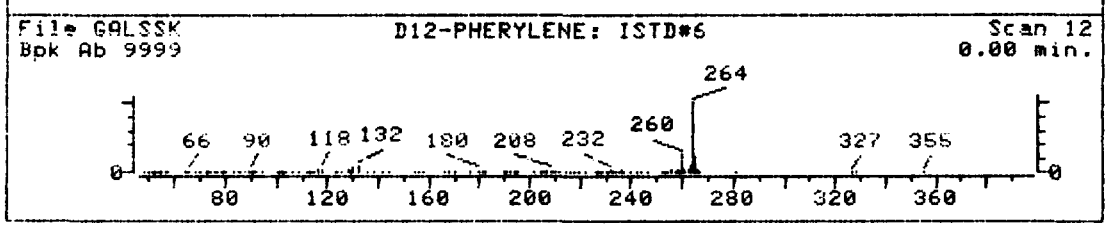

File GALSSK
Bpk Ab 9999
D12-CHRYSENE: ISTD#5
Scan 11
0.00 min.
240
66 106 120 156 194 212 281 315 387
80 120 160 200 240 280 320 360 400

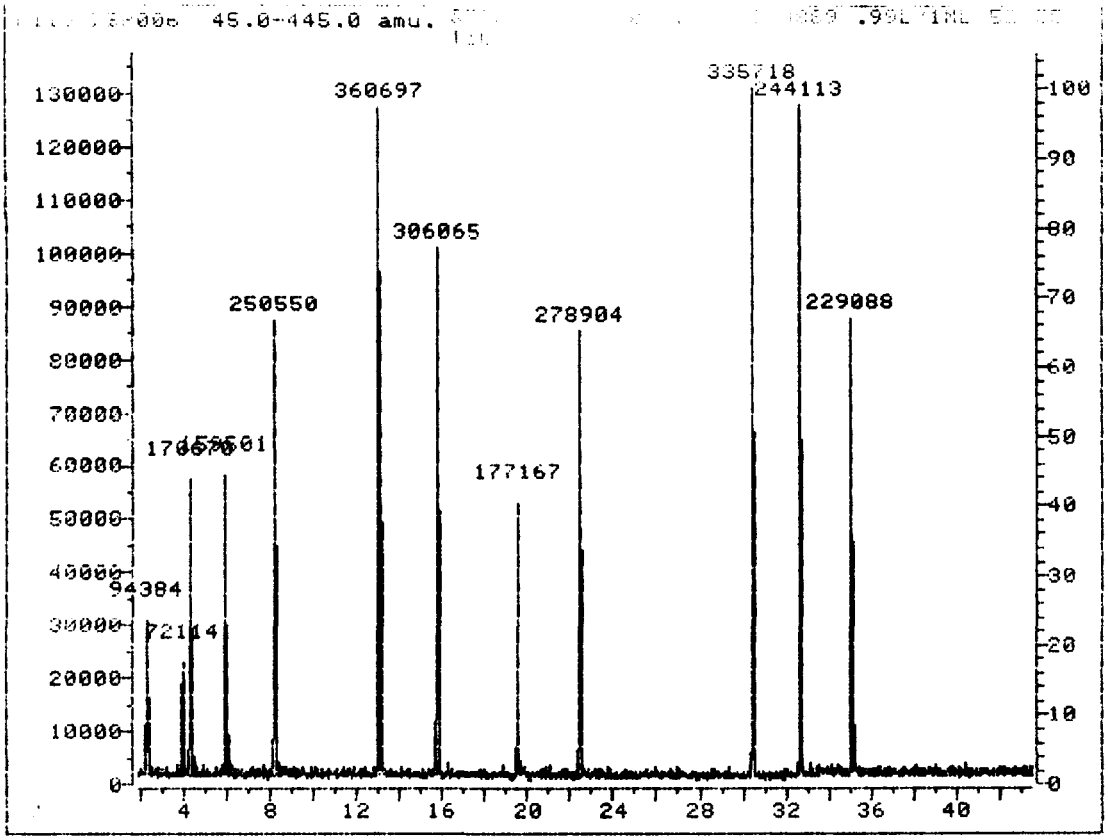

File GALSSK
Bpk Ab 9999
D12-CHRYSENE: ISTD#5
Scan 11
0.00 min.
240
66 106 120 156 194 212 281 315 387
80 120 160 200 240 280 320 360 400


File >BP005 SF5883 89FS09S76 030889 .99L/1ML 52/55
Scan 1882
Bpk Ab 9999
34.97 min.
264
66 76 118 132 156 208 232 260 310344 373
80 120 160 200 240 280 320 360


File GALSSK
Bpk Ab 9999
D12-PHERYLENE: ISTD#6
Scan 12
0.00 min.
264
66 90 118 132 180 208 232 260 327 355
80 120 160 200 240 280 320 360


File GALSSK
Bpk Ab 9999
D12-PHERYLENE: ISTD#6
Scan 12
0.00 min.
264
66 90 118 132 180 208 232 260 327 355
80 120 160 200 240 280 320 360

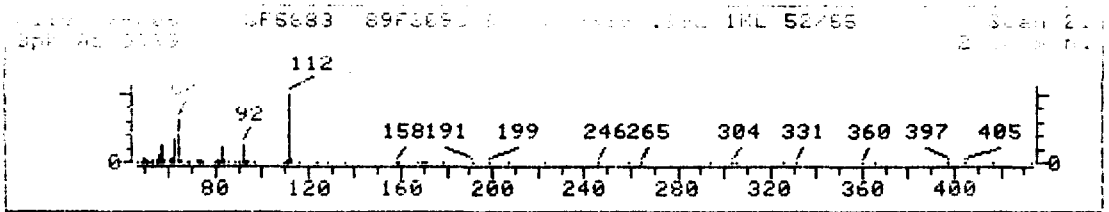

File GALSSK
Bpk Ab 9999
D12-PHERYLENE: ISTD#6
Scan 12
0.00 min.
264
66 90 118 132 180 208 232 260 327 355
80 120 160 200 240 280 320 360


45.0-445.0 amu.
360697
335718
244113
306065
250550
278904
229088
177167
94384
72114
130000
120000
110000
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
100
90
80
70
60
50
40
30
20
10
0
4
8
12
16
20
24
28
32
36
40

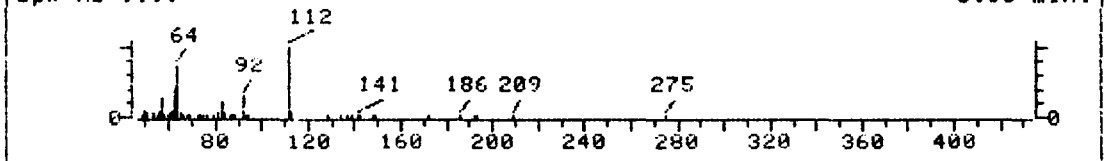
[illegible] SF5883 [illegible] 030889 [illegible]
45.01 445.0 TIC
Upslope: .20 Area Reject: 5.40 % Max Peaks: 12 Bunching: 1
Unslope: 0.00 Results File VDIR79 Sorted by Area/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% to
1	13.00	630	635	639	125549	381585	360697	100.00	13
2	30.39	1619	1622	1628	129457	351268	335718	93.07	12
3	15.70	783	788	792	99239	323713	306065	84.85	11
4	22.41	1163	1169	1178	84288	298757	278904	77.32	10
5	8.12	352	358	366	85912	272218	250550	69.46	9
6	32.59	1744	1747	1750	126555	253474	244113	67.68	9
7	35.00	1881	1884	1891	85634	253722	229088	63.51	8
8	19.48	999	1003	1009	51012	198699	177167	49.12	6
9	4.24	134	138	145	55681	191712	170670	47.32	6
10	5.85	227	229	236	55859	180015	159501	44.22	5
11	2.18	19	21	30	28920	117950	94384	26.17	3
12	3.86	113	116	121	21173	87208	72114	19.99	2

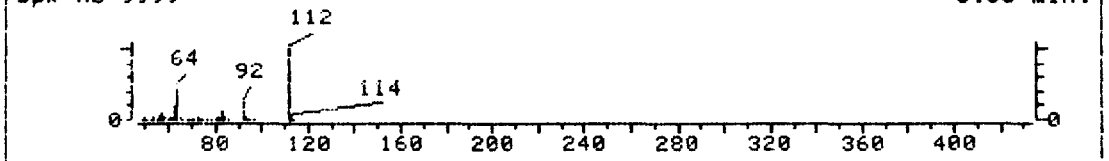
Sum of corrected areas: 2678971.



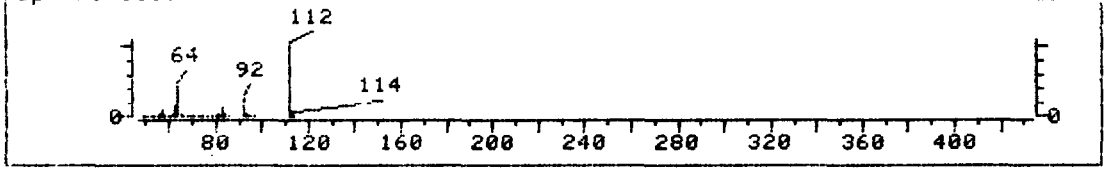
File GALSSK 2-FLUOROPHENOL: SURR#1 Scan 1
Bpk Ab 9999 0.00 min.



File GALSSK 2-FLUOROPHENOL (SURR. STD. # 1) Scan 13
Bpk Ab 9999 0.00 min.



File GALSSK 2-FLUOROPHENOL (SURR. STD. # 1) Scan 13
Bpk Ab 9999 0.00 min.



File >BP006 SF5883 89FS09S75 030889 .99L/1ML 52/55 Scan 116
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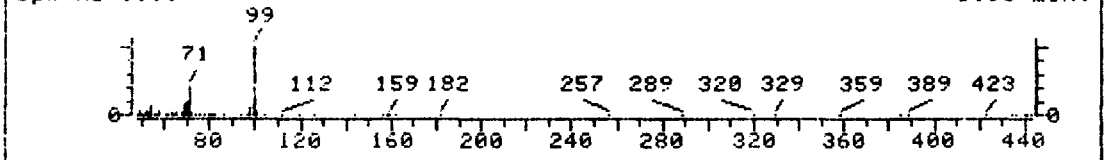
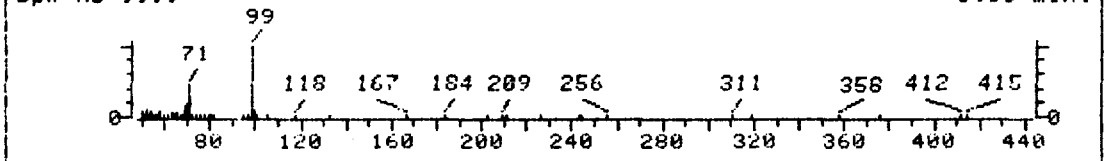
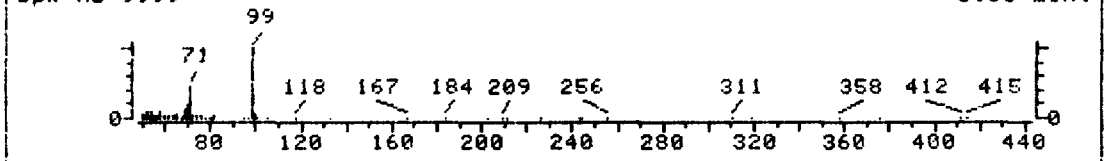


File GALSSK D5-PHENOL: SURR#2 Scan 2
Bpk Ab 9999 0.00 min.



File GALSSK D5-PHENOL: SURR#2 Scan 2
Bpk Ab 9999 0.00 min.



File GALSSK D5-PHENOL: SURR#2 Scan 2
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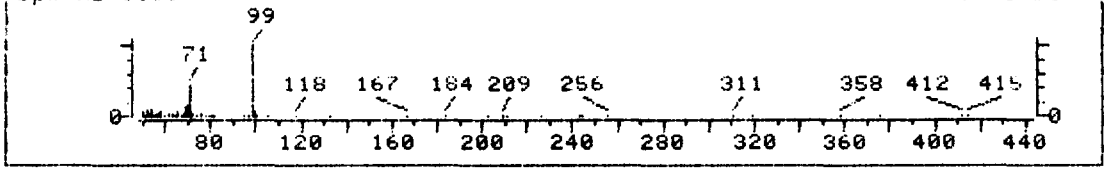

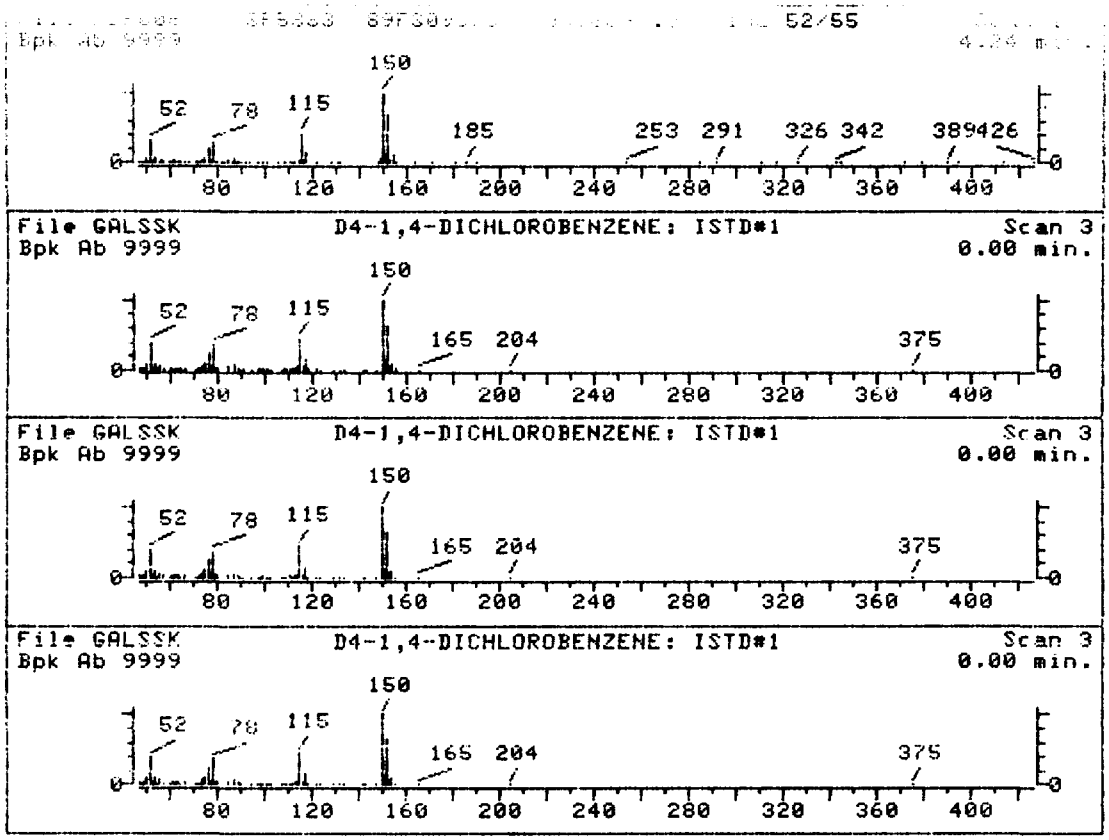
52/55
Bpk Ab 9999
150
52 78 115 185 253 291 326 342 389426
File GALSSK
D4-1,4-DICHLOROBENZENE: ISTD#1
Scan 3
Bpk Ab 9999
0.00 min.
150
52 78 115 165 204 375
File GALSSK
D4-1,4-DICHLOROBENZENE: ISTD#1
Scan 3
Bpk Ab 9999
0.00 min.
150
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File GALSSK
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0.00 min.
150
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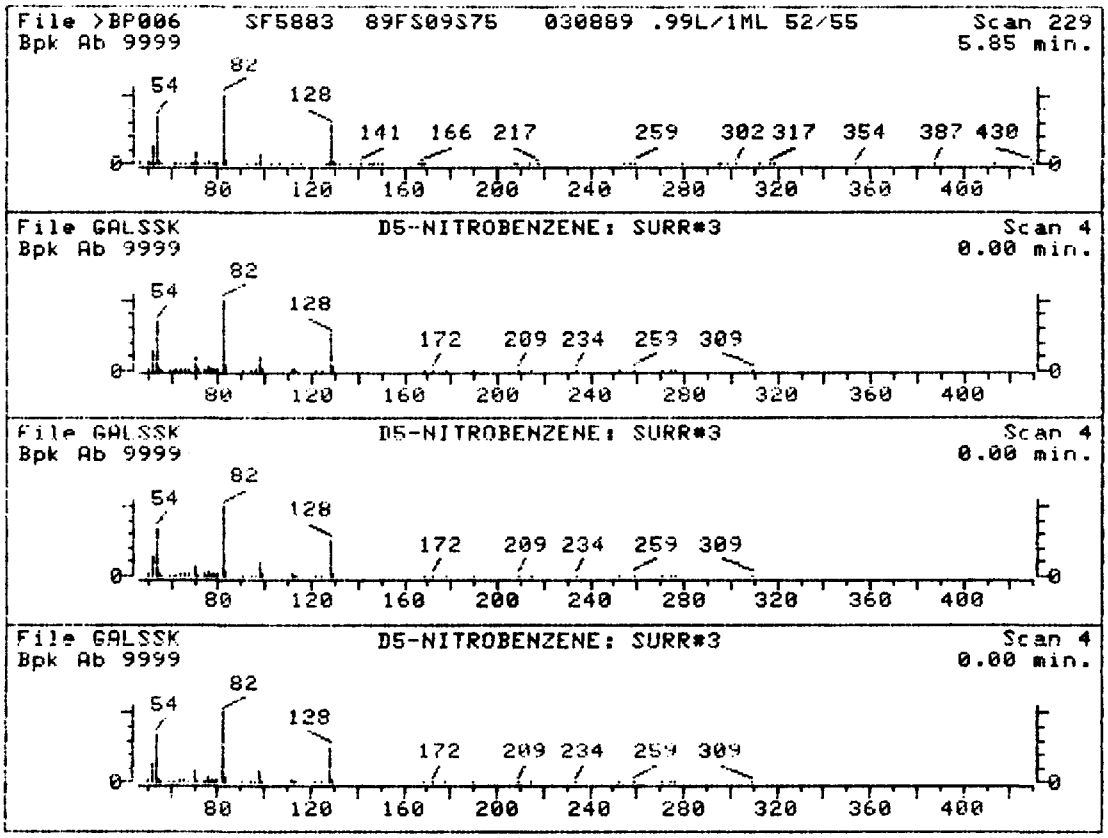
File >BP006 SF5883 89FS09S75 030889 .99L/1ML 52/55
Scan 229
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5.85 min.
82
54 128 141 166 217 259 302 317 354 387 430
File GALSSK
D5-NITROBENZENE: SURR#3
Scan 4
Bpk Ab 9999
0.00 min.
82
54 128 172 209 234 259 309
File GALSSK
D5-NITROBENZENE: SURR#3
Scan 4
Bpk Ab 9999
0.00 min.
82
54 128 172 209 234 259 309
File GALSSK
D5-NITROBENZENE: SURR#3
Scan 4
Bpk Ab 9999
0.00 min.
82
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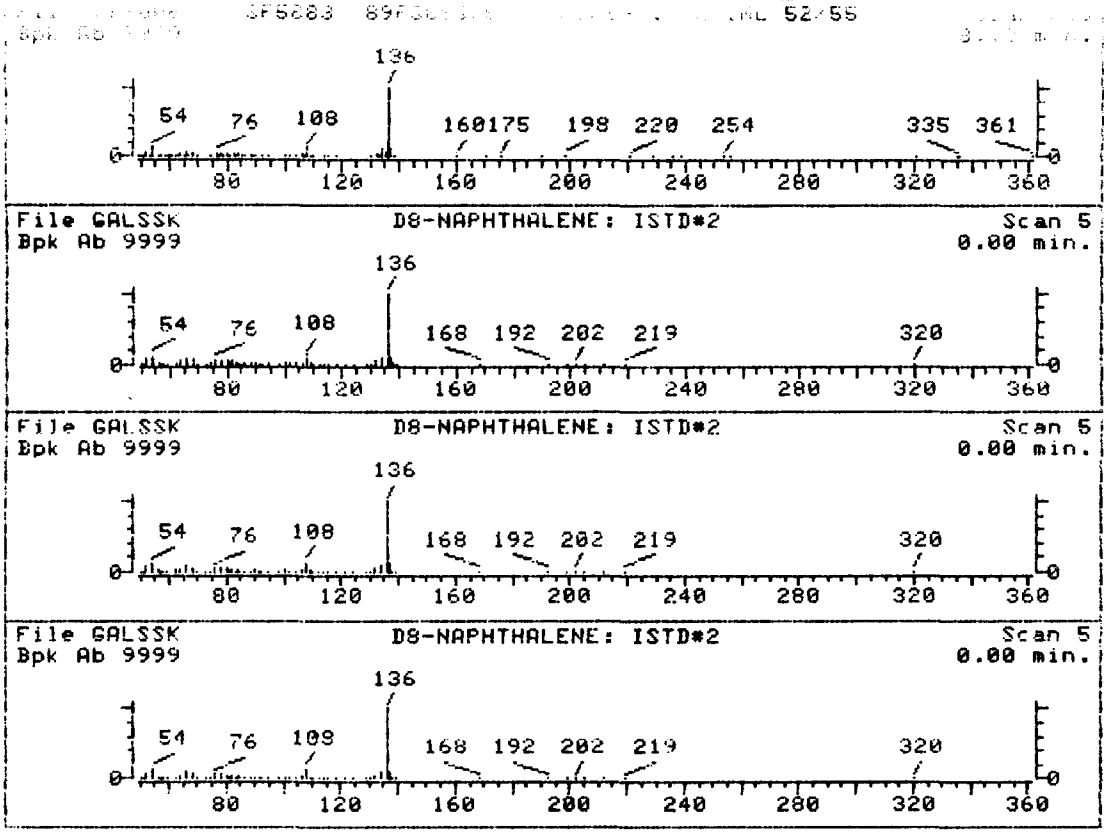
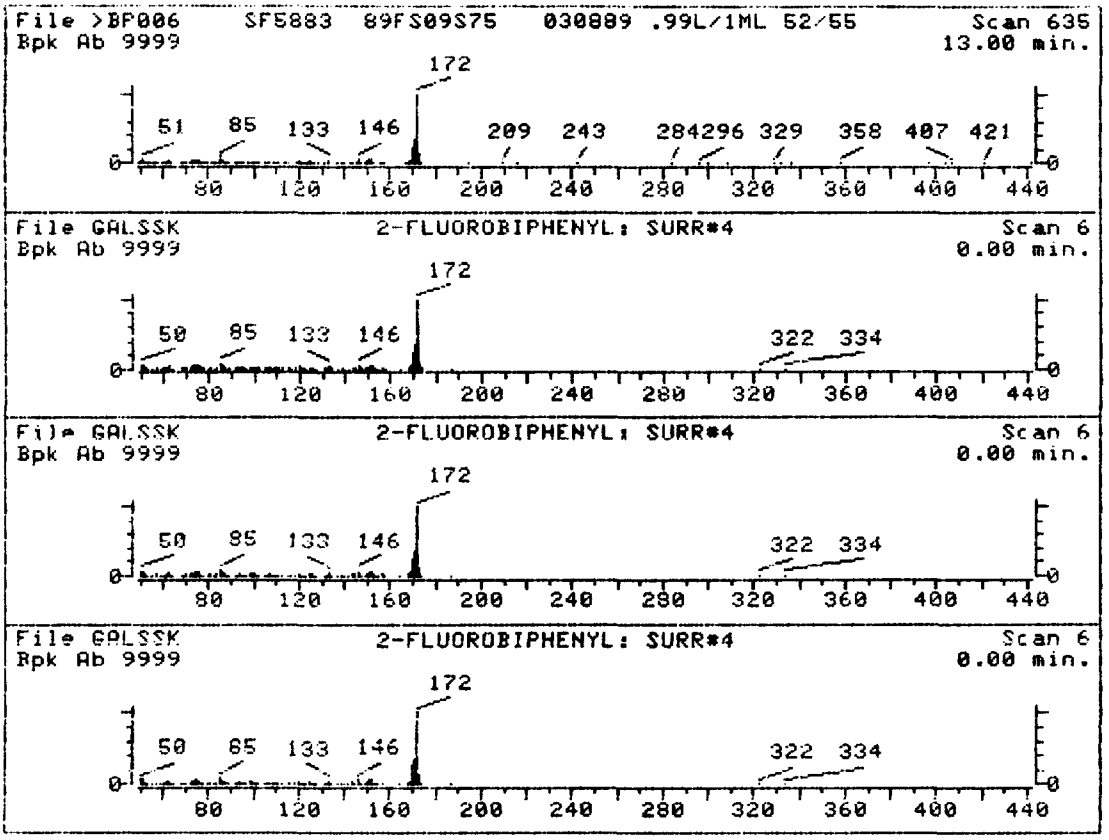
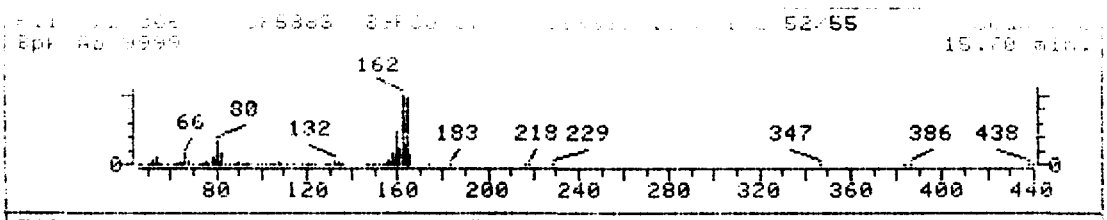
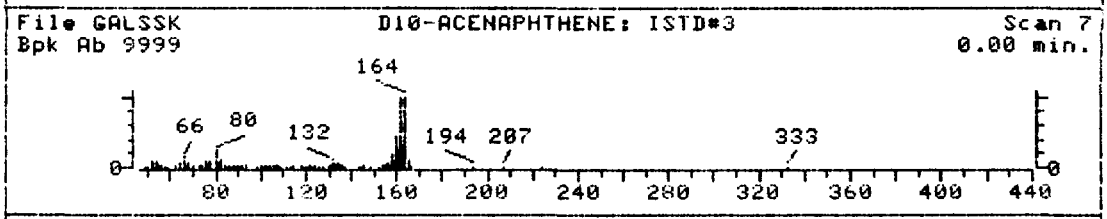
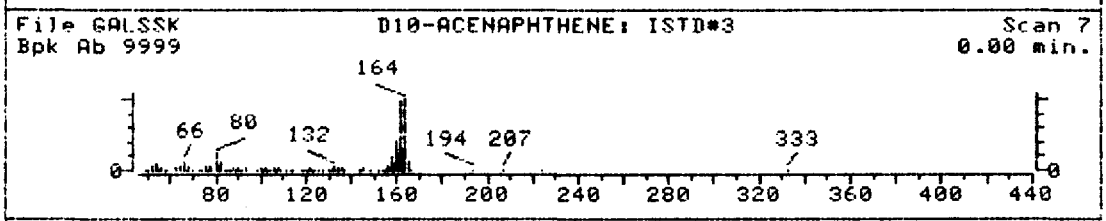
0 80 120 160 200 240 280 320 360 400

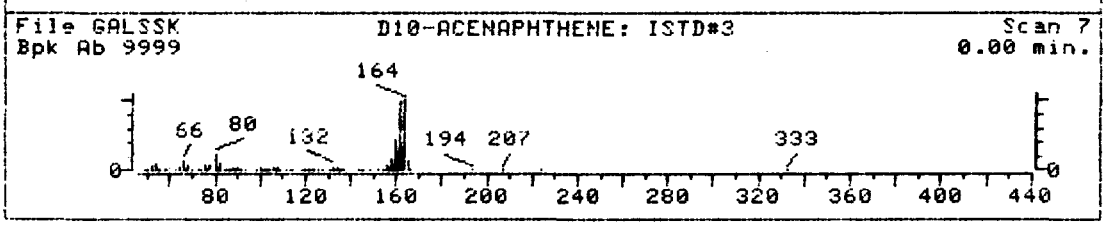

File GALSSK
Bpk Ab 9999
D8-NAPHTHALENE: ISTD#2
Scan 5
0.00 min.
136
54 76 108 160175 198 220 254 335 361
80 120 160 200 240 280 320 360
File GALSSK
Bpk Ab 9999
D8-NAPHTHALENE: ISTD#2
Scan 5
0.00 min.
136
54 76 108 168 192 202 219 320
80 120 160 200 240 280 320 360
File GALSSK
Bpk Ab 9999
D8-NAPHTHALENE: ISTD#2
Scan 5
0.00 min.
136
54 76 108 168 192 202 219 320
80 120 160 200 240 280 320 360
File GALSSK
Bpk Ab 9999
D8-NAPHTHALENE: ISTD#2
Scan 5
0.00 min.
136
54 76 108 168 192 202 219 320
80 120 160 200 240 280 320 360

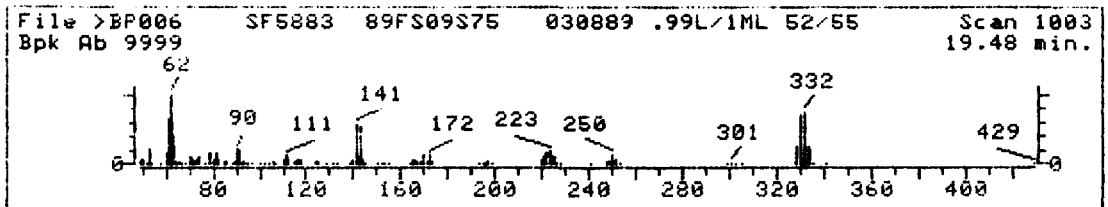

File >BP006 SF5883 89FS09S75 030889 .99L/1ML 52/55
Bpk Ab 9999
Scan 635
13.00 min.
172
51 85 133 146 209 243 284296 329 358 407 421
80 120 160 200 240 280 320 360 400 440
File GALSSK
Bpk Ab 9999
2-FLUOROBIPHENYL: SURR#4
Scan 6
0.00 min.
172
50 85 133 146 322 334
80 120 160 200 240 280 320 360 400 440
File GALSSK
Bpk Ab 9999
2-FLUOROBIPHENYL: SURR#4
Scan 6
0.00 min.
172
50 85 133 146 322 334
80 120 160 200 240 280 320 360 400 440
File GALSSK
Bpk Ab 9999
2-FLUOROBIPHENYL: SURR#4
Scan 6
0.00 min.
172
50 85 133 146 322 334
80 120 160 200 240 280 320 360 400 440

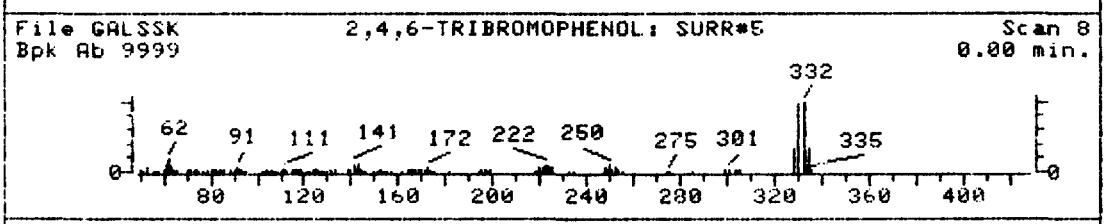

52/55
15.70 min.
162
66
80
132
183
218 229
347
386
438
80 120 160 200 240 280 320 360 400 440

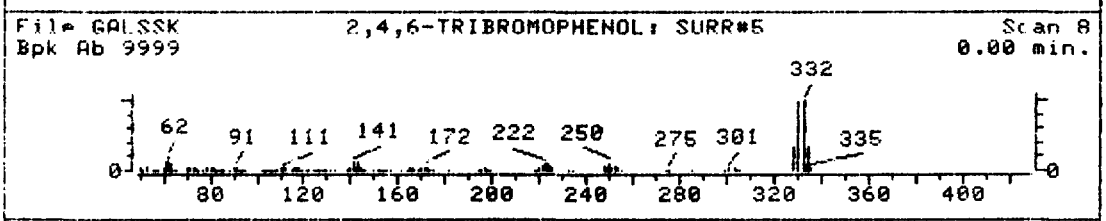

File GALSSK
Bpk Ab 9999
D10-ACENAPHTHENE: ISTD#3
Scan 7
0.00 min.
164
66
80
132
194 207
333
80 120 160 200 240 280 320 360 400 440

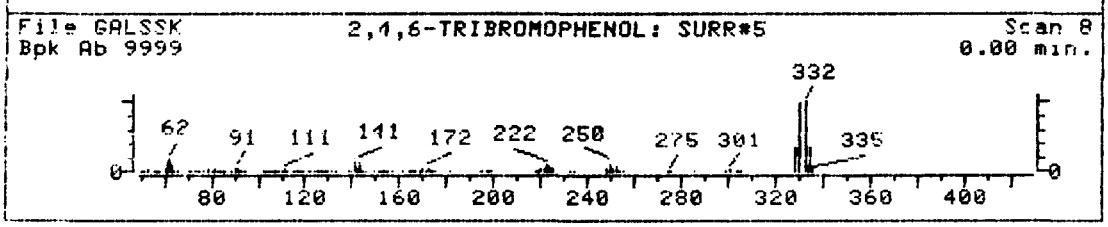

File GALSSK
Bpk Ab 9999
D10-ACENAPHTHENE: ISTD#3
Scan 7
0.00 min.
164
66
80
132
194 207
333
80 120 160 200 240 280 320 360 400 440


File GALSSK
Bpk Ab 9999
D10-ACENAPHTHENE: ISTD#3
Scan 7
0.00 min.
164
66
80
132
194 207
333
80 120 160 200 240 280 320 360 400 440


File >BP006 SF5883 89FS09S75 030889 .99L/1ML 52/55
Scan 1003
Bpk Ab 9999
19.48 min.
62
90
111
141
172
223
250
301
332
429
80 120 160 200 240 280 320 360 400


File GALSSK
Bpk Ab 9999
2,4,6-TRIBROMOPHENOL: SURR#5
Scan 8
0.00 min.
332
62
91
111
141
172
222
250
275
301
335
80 120 160 200 240 280 320 360 400


File GALSSK
Bpk Ab 9999
2,4,6-TRIBROMOPHENOL: SURR#5
Scan 8
0.00 min.
332
62
91
111
141
172
222
250
275
301
335
80 120 160 200 240 280 320 360 400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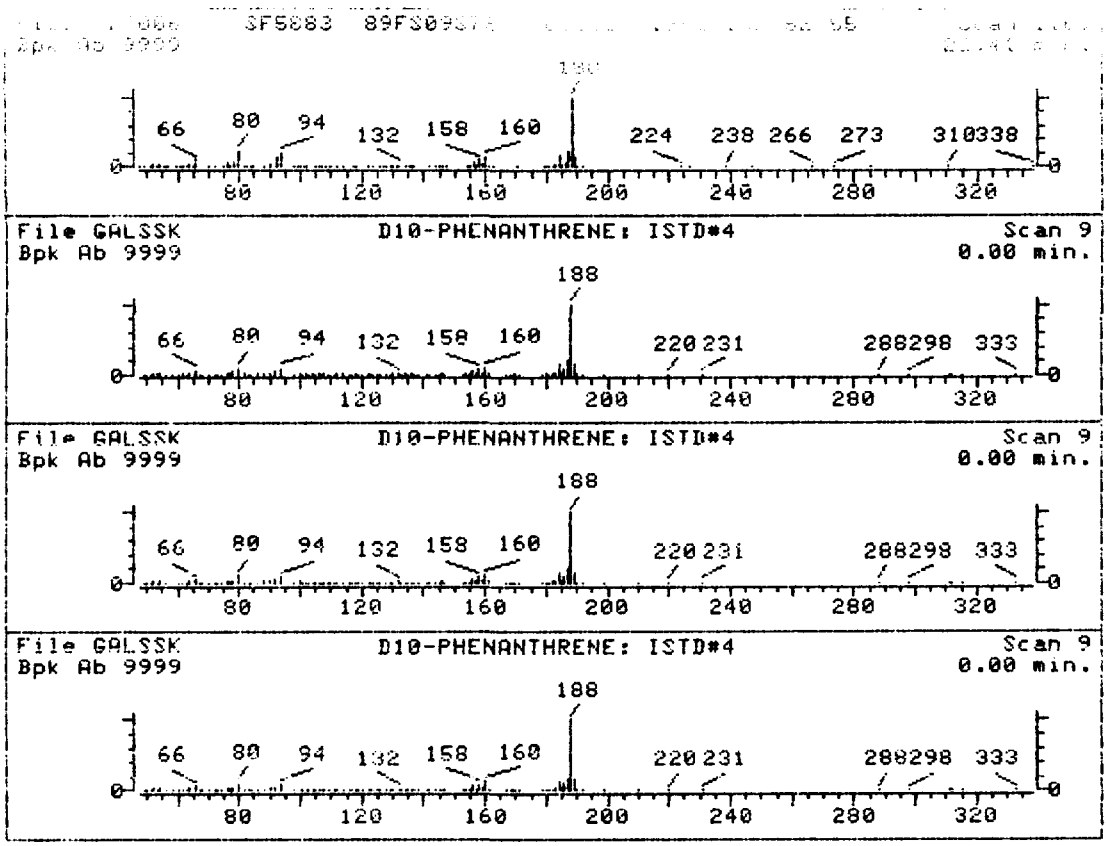
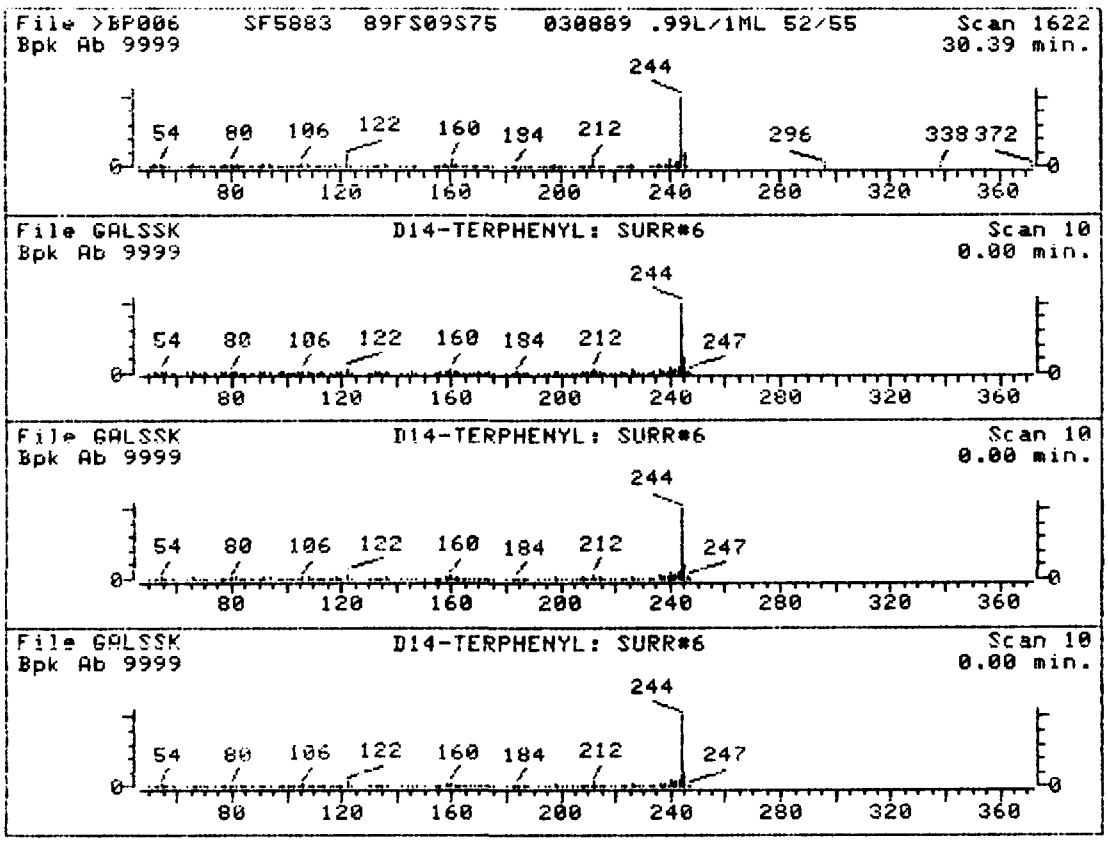
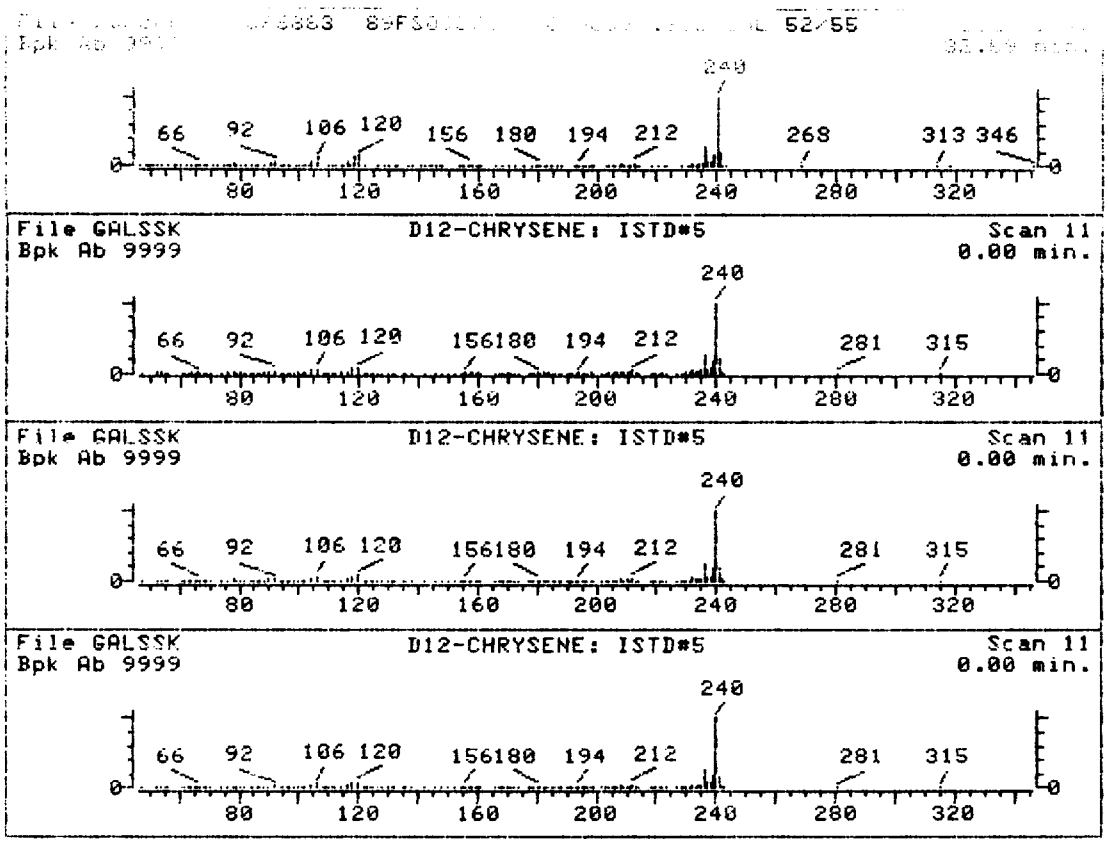
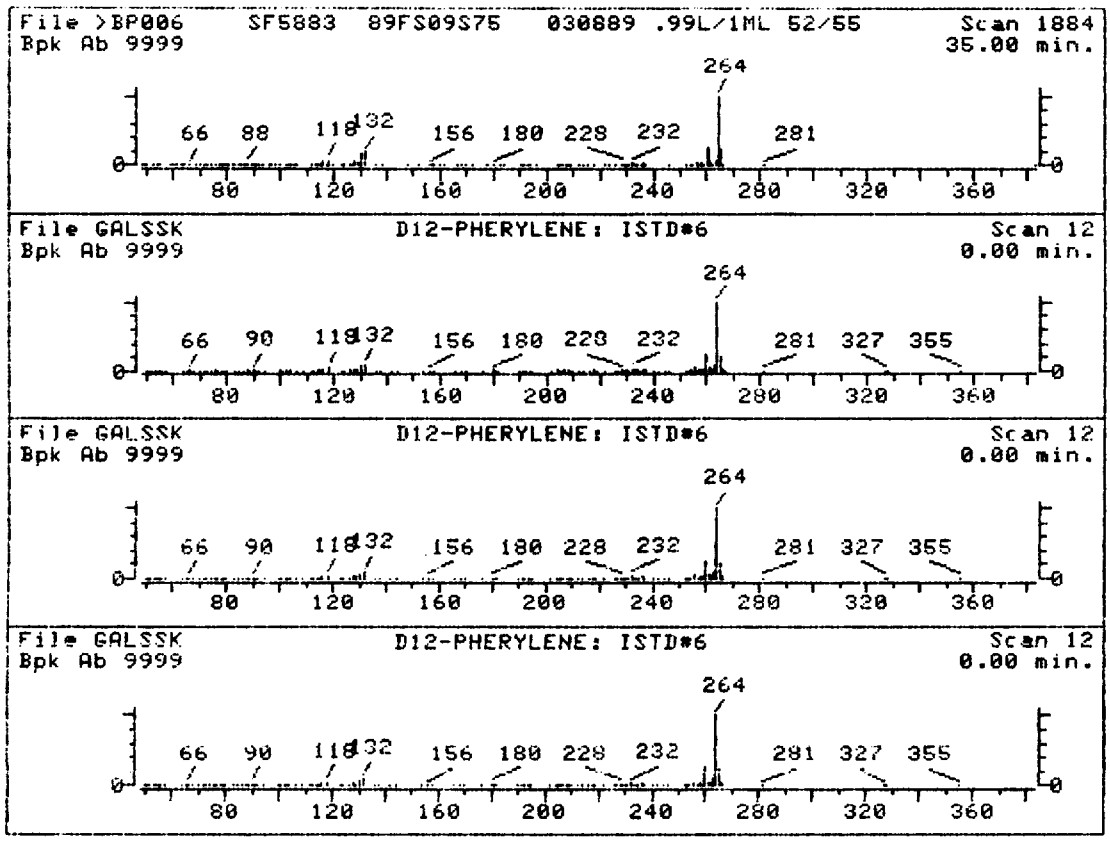
Bpk Ab 9999
2,4,6-TRIBROMOPHENOL: SURR#5
Scan 8
0.00 min.
332
62
91
111
141
172
222
250
275
301
335
80 120 160 200 240 280 320 360 400


File GALSSK
Bpk Ab 9999
D10-PHENANTHRENE: ISTD#4
Scan 9
0.00 min.
188
66 80 94 132 158 160 220 231 288 298 333
File GALSSK
Bpk Ab 9999
D10-PHENANTHRENE: ISTD#4
Scan 9
0.00 min.
188
66 80 94 132 158 160 220 231 288 298 333
File GALSSK
Bpk Ab 9999
D10-PHENANTHRENE: ISTD#4
Scan 9
0.00 min.
188
66 80 94 132 158 160 220 231 288 298 333


File >BP006 SF5883 89FS09S75 030889 .99L/1ML 52/55
Bpk Ab 9999
Scan 1622
30.39 min.
244
54 80 106 122 160 184 212 296 338 372
File GALSSK
Bpk Ab 9999
D14-TERPHENYL: SURR#6
Scan 10
0.00 min.
244
54 80 106 122 160 184 212 247
File GALSSK
Bpk Ab 9999
D14-TERPHENYL: SURR#6
Scan 10
0.00 min.
244
54 80 106 122 160 184 212 247
File GALSSK
Bpk Ab 9999
D14-TERPHENYL: SURR#6
Scan 10
0.00 min.
244
54 80 106 122 160 184 212 247


File GALSSK
Bpk Ab 9999
D12-CHRYSENE: ISTD#5
Scan 11
0.00 min.
240
66 92 106 120 156 180 194 212 281 315
80 120 160 200 240 280 320

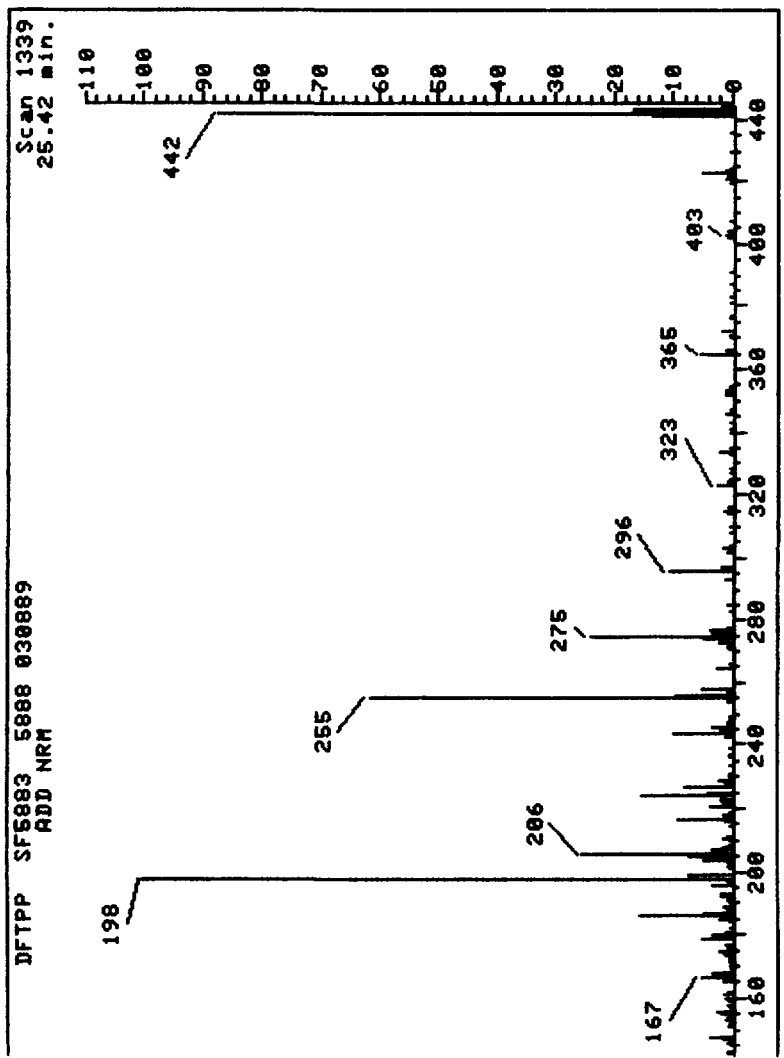

File >BP006 SF5883 89FS09S75 030889 .99L/1ML 52/55
Scan 1884
35.00 min.
Bpk Ab 9999
264
66 88 118 132 156 180 228 232 281
80 120 160 200 240 280 320 360
File GALSSK
D12-PHERYLENE: ISTD#6
Scan 12
0.00 min.
Bpk Ab 9999
264
66 90 118 132 156 180 228 232 281 327 355
80 120 160 200 240 280 320 360

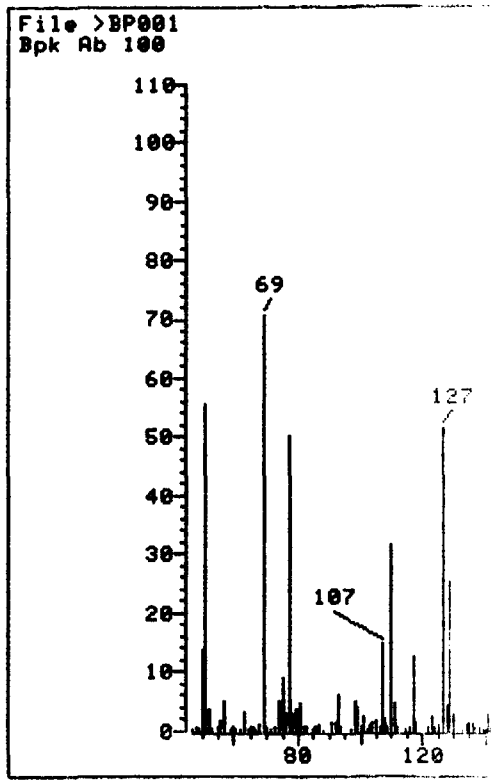
GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
51	30-60% of mass 198	55.78	55.78	Ok
68	Less than 2% of mass 69	.92	1.29	Ok
69	(reference only)	70.72	70.72	Ok
70	Less than 2% of mass 69	.47	.66	Ok
127	40-60% of mass 198	51.73	51.73	Ok
197	Less than 1% of mass 198	.48	.48	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	7.32	7.32	Ok
275	10-30% of mass 198	23.95	23.95	Ok
365	Greater than 1% of mass 198	5.28	5.28	Ok
441	0-100% of mass 443	13.21	80.31	Ok
442	Greater than 40% of mass 198	87.26	87.26	Ok
443	17-23% of mass 442	16.45	18.85	Ok

Injection Date: 03/08/89
Injection Time: 08:21
Data File: >BP001
Scan: 1339

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Bpk Ab 100
110
100
90
80
70
60
50
40
30
20
10
0
69
107
127
80
120

>BP001 DFTPP SF5883 5888 030889
1339 ADD NRM

File: >BP001 Scan #: 1339 Retn. time: 25.42

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
46.55	.203	102.85	.855	164.95	1.430	218.80	.329	310.25	.241
47.15	.268	103.05	.471	165.95	1.266	220.90	3.595	314.05	.499
48.15	.641	103.95	1.512	166.90	5.063	221.80	1.184	314.95	1.244
48.65	.416	104.95	1.660	168.00	3.140	222.10	.778	316.05	.658
50.05	13.814	106.35	.466	169.00	.378	223.00	1.660	316.25	.411
51.05	55.775	107.05	14.718	170.00	.230	224.00	15.348	323.00	2.559
52.05	3.452	107.95	1.951	171.10	.384	225.00	3.748	323.90	.548
53.25	.230	108.65	.471	172.00	.400	226.90	7.836	324.80	.208
54.95	.553	110.05	31.578	172.40	.241	228.00	1.019	325.00	.203
55.95	1.622	110.95	4.647	173.10	1.047	228.90	1.967	326.80	.400
57.05	4.838	112.05	.477	174.00	1.216	230.00	.203	327.90	.340
59.15	.356	114.25	.197	175.00	2.236	231.00	.334	332.80	.285
59.95	.433	116.10	.734	175.90	.444	233.70	.290	333.90	2.011
60.65	.175	117.00	12.762	176.10	.444	236.00	.367	335.00	.416
62.05	.241	117.90	1.419	177.00	.800	237.00	.384	339.80	.197
63.05	3.068	121.90	.526	179.00	4.816	238.70	.334	341.00	.307
64.45	.170	123.00	2.444	180.00	2.986	238.90	.318	343.00	.164
65.00	.745	124.00	.707	181.00	.970	242.00	.921	345.60	.855
66.10	.493	125.00	1.134	182.20	.334	243.10	.679	347.05	.170
66.70	.345	127.00	51.726	184.00	.362	243.95	9.595	351.95	1.090
67.90	.915	128.00	4.159	185.00	2.159	245.05	1.666	352.95	.833
69.00	70.723	129.00	25.381	186.00	15.677	245.95	3.085	354.15	.252
70.20	.466	130.00	2.625	187.10	4.526	246.95	.586	354.45	.258
71.10	.400	132.50	.307	188.10	.647	248.05	.170	364.95	5.282
72.30	.241	132.70	.334	188.80	1.195	248.85	.175	366.05	.816
72.50	.268	134.00	.866	190.30	.274	254.05	.460	365.95	.389
72.90	.444	135.00	1.485	190.70	.608	254.95	61.501	370.05	.197
74.00	4.899	136.00	1.227	191.00	.718	255.95	9.512	370.85	.378
75.00	9.025	137.00	.504	191.00	.373	256.95	.482	372.00	1.605
76.10	2.915	138.30	.499	192.00	1.644	258.05	4.800	376.40	.214
77.10	50.258	139.80	.290	193.05	1.655	264.95	2.263	376.60	.214
78.00	2.899	140.10	.230	195.95	2.981	266.05	.389	381.00	.164
79.00	3.468	141.10	3.260	197.05	.477	270.80	.225	382.80	.329
80.00	2.751	141.95	.663	197.95	100.000	271.60	.455	387.10	.197
81.00	4.499	142.85	.477	198.95	7.315	272.00	.340	391.40	.247
81.90	.734	144.85	.373	201.15	.279	272.90	2.033	401.85	.488
82.10	.236	145.75	.674	201.45	.318	273.90	4.625	402.85	1.063
82.90	.564	146.15	.345	201.85	.537	275.00	23.945	404.25	.493
84.50	.329	146.95	1.359	202.85	.658	276.00	3.321	407.45	.192
85.10	.707	147.95	3.447	204.05	4.707	276.90	3.458	419.25	.258
86.10	.723	151.05	.712	205.05	7.041	277.80	.559	421.05	.986
87.00	.844	151.45	.290	206.05	25.282	283.00	.258	421.85	.784
87.80	.263	152.95	1.118	207.05	3.288	285.00	.515	422.05	.301
90.95	1.277	153.85	.460	207.95	1.479	293.00	.921	423.00	4.915
91.95	1.249	155.05	1.786	208.85	.301	295.95	10.504	423.80	.855
92.95	6.241	156.05	2.427	209.95	.411	296.85	1.605	424.00	.373
93.85	.526	156.95	.323	210.85	1.408	301.85	.433	429.70	.219
97.05	.241	157.45	.312	211.05	.564	302.05	.230	435.70	.181
98.05	4.833	158.05	.449	214.85	.340	303.05	1.244	441.00	13.211
99.05	3.995	158.95	.488	216.05	.849	304.15	.384	442.00	87.260
100.25	.455	160.05	.981	216.95	8.888	307.75	.301	443.00	16.449
101.05	2.362	160.85	1.342	217.90	1.321	309.95	.192	444.00	1.627
102.55	.362	162.05	.778						

GF's notes

~~SAP~~

SF-5883 (APN)

BLANK	1000 ML
89FS09S75	990 ML
89FS09D75	1030 ML
89FS09S76	990 ML
89FS09S77	980 ML
89FS09R08	1020 ML
MATRIX SPIKE	1030 ML
MATRIX SPIKE DUP	1030 ML

Sequence File: BABF21::KS

SF 5883

Tune File: MT7802

CR List: C7,C3,C2
CR Cut-off: 5000 blocks.

Number of samples: 24

Samp No.	Data File / Method File	Sample Name / Misc Data	Bottle	Sample Size	Quant	Report	Data Archive	ID Archive	Output Archive	Quant ID / Quant Output
001)	>BP002	SF5883 METHOD BLANK	01	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.0L/1ML 52/55		Dil=1.00000						^BP002::SK
002)	>BP003	SF5883 89FS09S76MS	02	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.03/1ML 52/55		Dil=1.00000						^BP003::SK
003)	>BP004	SF5883 89FS09S76MD	03	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.03/1ML 52/55		Dil=1.00000						^BP004::QT
004)	>BP005	SF5883 89FS09S76	04	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 .99L/1ML 52/55		Dil=1.00000						^BP005::SK
005)	>BP006	SF5883 89FS09S75	05	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 .99L/1ML 52/55		Dil=1.00000						^BP006::SK
006)	>BP007	SF5883 89FS09D75	06	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.03/1ML 52/55		Dil=1.00000						^BP007::SK
007)	>BP008	SF5883 89FS09S77	07	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 .98L/1ML 52/55		Dil=1.00000						^BP008::SK
008)	>BP009	SF5883 89FS09R08	08	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.02/1ML 52/55		Dil=1.00000						^BP009::SK
009)	>BP010	SF5883 SF5888	09	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 TOX STD 100PPM		Dil=1.00000						^BP010::SK
010)	>BP011	SF5883 SF5888	10	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 TOX STD 50 PPM		Dil=1.00000						^BP011::SK
011)	>BP012	SF5883 SF5888	11	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 TOX STD 25PPM		Dil=1.00000						^BP012::SK
012)	>BP013	SF5888 METHOD BLANK	12	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.0L/1ML 55/58		Dil=1.00000						^BP013::SK
013)	>BP014	SF5888 89FZ09S89MS	13	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.0L/1ML 55/58		Dil=1.00000						^BP014::SK
014)	>BP015	SF5888 89FZ09S89MD	14	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.0L/1ML 55/58		Dil=1.00000						^BP015::SK
015)	>BP016	SF5888 89FZ09S89	15	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.0L/1ML 55/58		Dil=1.00000						^BP016::SK
016)	>BP017	SF5888 89FZ09S90	16	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.0L/1ML 55/58		Dil=1.00000						^BP017::SK
017)	>BP018	SF5888 89FZ09B90	17	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.0L/1ML 55/58		Dil=1.00000						^BP018::SK
018)	>BP019	SF5888 89FZ09S91	18	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.0L/1ML 55/58		Dil=1.00000						^BP019::SK
019)	>BP020	SF5888 89FZ09R02	19	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 1.0L/1ML 55/58		Dil=1.00000						^BP020::SK
020)	>BP021	SF5883 SF5888	20	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 TOX STD 5PPM		Dil=1.00000						^BP021::SK
021)	>BP022	SF5883 SF5888	21	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 TOX STD 5PPM		Dil=1.00000						^BP022::SK
022)	>BP023	SF5883 SF5888	22	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 TOX STD 1PPM		Dil=1.00000						^BP023::SK
023)	>BP024	SF5883 SF5888	23	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030889 TOX STD 1PPM		Dil=1.00000						^BP024::SK
024)	>BP025	SF5883 SF5888	24	3	Y	N	N	N	N	IDIS96::KS
	TOXIC6::C4	030989 DFTPP		Dil=1.00000						^BP025::SK

End of sequence file.

A/BN BENCH SHEET

DATA SET: SF-5883 SAMPLE TYPE: WATER EXTRACTION METHOD:

	SAMPLE #	SAMPLE AMOUNT	FINAL VOL.	SOLVENT EXTRACT.	DILUTION w/HEXANE 1st	2nd	3rd	EXTR VOL.
5	89FS09S75	990ML						
6	89FS09D75	1030ML						
4	89FS09S76	990 ML						
7	89FS09S77	980 ML						
8	89FS09R08	1020ML						
1 ✓	METHOD BLANK S76	1000ML						
	MATRIX SPIKE S76	1030ML						
	MATRIX SPIKE DUP	1030ML						

55 DATE EXTRACTED: FEB 24, 1989 PREP. CHEM.: H. Fnye

DATE CONCENTRATED: 3/6/89 3/4/89 PREP. CHEM.: (KHAN) 3/6

DATE RECEIVED: 3/6/89 GC/MS CHEM.: A. Alwan

REMARKS: ONE ML ABN SURROGATE ADDED TO ALL SAMPLES

ONE ML ACID SPIKE ADDED TO MATRIX SPIKE AND MATRIX SPIKE DUP

ONE ML B/N SPIKE ADDED TO MATRIX SPIKE AND MATRIX SPIKE DUP

(*) Samples were extracted on 2/24/89 but they were not concentrated until 3/4/89. BB 3/6/89