CLP -
66

019739

1472 1452 R2T33

QC Sample No. Orig. No. EPA No.

Lab Name-Mead CompuChem

QC Report No. 1249

Case No. 1687

Associated Samples 1449 - 1461
1490 - 1491, 1494, 1495, 1498

PP#	Compounds	QC Sample Results	Original Sample Results	Relative % Difference
	2-fluorophenol	46	50	8
	pentafluorophenol	26	Nf	200
	d_5-nitrobenzene	74	90	19
	2-fluorobiphenyl	82	94	13
	2-fluoroaniline	68	79	14
	decafluorobiphenyl	76	44	53
(22A)	p-chloro-m-cresol	54	88	47
(24A)	2-chlorophenol	84	110	26
(58A)	4-nitrophenol	Nf	Nf	—
1A)	pentachlorophenol	20	18	10
(65A)	phenol	34	44	25
(1B)	acenaphthene	80	110	31
(8B)	1,2,4-trichlorobenzene	80	100	22
(27B)	1,4-dichlorobenzene	96	110	13
(35B)	2,4-dinitrotoluene	64	80	22
(63B)	N-nitrosodi-n-propylamine	180	440	83
(68B)	di-n-butyl phthalate	26	34	40
(69B)	di-n-octyl phthalate	92	170	59
(76B)	chrysene	90	150	50
(84B)	pyrene	78	120	42

019740.

Low Level Liquid

1473 QC SAMPLE NO. | 1498 ORIGINAL NO. | R2145 SA5509-R EPA NO.

ASSOCIATED SAMPLE NOS: 1449-1461, 1490-91, 1494-95, 1493

LAB NAME: MEAD COMPUCHEM

QC REPORT NO: [illegible]

CASE NO: 1647

EPA	CAS#	COMPOUNDS	ORIG SAMPLE RESULTS	QC SAMPLE RESULTS	SPIKE ADDED ug/l	% RECOVERY
(89P)	309-00-2	aldrin	ND	2.67	4.16	64
(90P)	60-57-1	dieldrin	—	2.78	4.02	69
(91P)	57-74-9	chlordane				
(92P)	50-29-3	4,4'-DDT				
(93P)	72-55-9	4,4'-DDE				
(94P)	72-54-8	4,4'-DDD				
(95P)	115-29-7	endosulfan I				
(96P)	115-29-7	endosulfan II				
(97P)	1031-07-8	endosulfan sulfate				
(98P)	72-20-8	endrin				
(99P)	7421-43-4	endrin aldehyde	—	2.68	4.08	66
100P	76-44-8	heptachlor				
(101P	1024-57-3	heptachlor epoxide				
(102P	319-84-6	BHC-Alpha				
(103P	319-85-7	BHC-Beta				
(104P	319-86-8	BHC-Delta				
(105P	58-89-9	BHC-Gamma				
(106P	53469-21-9	PCB-1242				
(107P	11097-69-7	PCB-1254				
(108P	11104-28-2	PCB-1221				
(109P	11141-16-5	PCB-1232				
(110P	12672-29-6	PCB-1248				
(111P	11096-82-5	PCB-1260				
(112P	12674-11-2	PCB-1016				
(113P	8001-35-2	toxaphene				
		DIOXINS				
(129B)	1746-01-6	2,3,7,8-tetrachlorodibenzo p-dioxin				

Liquid samples are prepared using a weighed portion, all data is reported on a per weight basis.

Mod A 802

CONTA 30 019741

Low Level Liquid

LAB NAME: Mead CompuChem®
QC REPORT No: 120,10
CASE NO: 7687

1474 — QC SAMPLE NO.
1498 — ORIGINAL NO.
R2145 — EPA NO. SDS 509-R

ASSOCIATED SAMPLE NOS: 1449-1461, 1490-91, 1498, 1494-95

PPB	COMPOUNDS	QC SAMPLE RESULTS ug/l	ORIG. SAMPLE RESULTS ug/l	RELATIVE PERCENT DIFFERENCE
	Pesticides			
	PCB's			
39P	aldrin	2.50	2.67	7
90P	dieldrin	2.60	2.78	7
100P	heptachlor	2.51	2.68	7

S/S

*Liquid samples are prepared using a weighed portion, all data is reported on a per weight basis.

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C00072

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ORGANICS ANALYSIS DATA SHEET - Page 2

Laboratory Name Mead CompuChem
Lab Sample ID No. [illegible] Instrument Blank
Associated Samples 1482, 1486, 1490, 1491, 1495

Case Number 1687
QC Report No.

VOLATILES

		ug/l
107-02-8	acrolein	ND
107-13-1	acrylonitrile	ND
71-43-2	benzene	ND
56-23-5	carbon tetrachloride	ND
108-90-7	chlorobenzene	ND
107-06-2	1,2-dichloroethane	ND
71-55-6	1,1,1-trichloroethane	ND
75-34-3	1,1-dichloroethane	ND
79-00-5	1,1,2-trichloroethane	ND
79-34-5	1,1,2,2-tetrachloroethane	ND
75-00-3	chloroethane	ND
110-75-8	2-chloroethylvinyl ether	ND
67-66-3	chloroform	ND
75-35-4	1,1-dichloroethene	ND
156-60-5	1,2-trans-dichloroethene	ND
78-87-5	1,2-dichloropropane	ND
10061-02-6	trans-1,3-dichloropropene	ND
10061-01-05	cis,1,3-dichloropropene	ND
100-41-4	ethylbenzene	ND
75-09-2	methylene chloride	ND
74-87-3	chloromethane	ND
74-83-9	bromomethane	ND
75-25-2	bromoform	ND
75-27-4	bromodichloromethane	ND
75-69-4	fluorotrichloromethane	ND
75-71-8	dichlorodifluoromethane	ND
124-48-1	chlorodibromomethane	ND
127-18-4	tetrachloroethene	ND
108-88-3	toluene	ND
79-01-6	trichloroethene	ND
75-01-4	vinyl chloride	ND
(Non-Priority Pollutant Hazardous Substances)		
67-64-1	acetone	ND
78-93-3	2-butanone	ND
75-15-0	carbondisulfide	ND
519-78-6	2-hexanone	ND
108-10-1	4-methyl-2-pentanone	ND
100-42-5	styrene	ND
108-05-4	vinyl acetate	ND
95-47-6	o-xylene	ND

019743

Lab Name: Mead CompuChem® Case No: 1051
Lab Sample I.D. No. [illegible] Instrument Blank
QC Report No:

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC.(ug/l)	(Surrogates Only) Spike Added (ug/l)	% Recovery
D4 1,2-Dichloroethane	VOA	22	20.0	110
D8-Toluene	VOA	21	20.0	105

FORM 1 (continued) Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit, however.

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

(b) U - Indicates compound was analyzed for but not detected. Report the minimum detection limit value with the U, e.g., 10U. The footnote should read: U-compound was analyzed but not detected. The number is the minimum detection limit.

(c) K - If the mass spectral data indicate the presence of a compound that meets the identification criteria but the quantitative results is less than the specified detection limit out greater than zero, report the detection limit as K, e.g., 10K. The footnote should read: K-Actual value, within the limitations of this method, is less than the value given.

(d) J - Indicates as estimated value which is used when estimating a concentration for tentatively identified compounds, e.g., 1200J. The footnote should read: J - Estimated value.

(e) Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described in a page attached to the data summary report.

(f) - This flag applies to pesticides parameters where the identification has been performed using two column confirmation (as specified in Method 608) but the level is too low for verification of the compound by mass spectrometry.

010744

Lab Name: _____ Case No. 1627

Lab Sample I.D. No. 08830508A11 Instrument Blank

QC Report No.: _____

B. TENTATIVELY IDENTIFIED COMPOUNDS

#	CAS #	COMPOUND NAME	FRAC-TION	% Pur.	Est. Conc.
1			BN		
2			BN		
3			BN		
4			BN		
5			BN		
6			BN		
7			BN		
8			BN		
9			BN		
10			BN		
11			ACID		
12			ACID		
13			ACID		
14			ACID		
15			ACID		
16			ACID		
17			ACID		
18			ACID		
19			ACID		
20		None	ACID		
21			VOA		
22			VOA		
23			VOA		
24			VOA		
25			VOA		
26			VOA		
27			VOA		
28			VOA		
29			VOA		
30			VOA		

QUALITY ASSURANCE NOTICE

The volatile analysis of blank [illegible] shows the presence of the laboratory artifact siloxane at scan [illegible]. This compound is routinely observed as an instrument contaminant and may or may not actually be present in this sample. Siloxane has not been listed as one of the non-priority pollutant compounds identified in this sample.

Susan R. Setzer
Quality Assurance Analyst

019748

U.S. ENVIRONMENTAL PROTECTION AGENCY-CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/557-2490

LOW LEVEL LIQUID

ORGANICS ANALYSIS DATA SHEET - Page 1

Case Number 1687
QC Report No. 135,9

Laboratory Name Reed CompuChem
Lab Sample ID No. Blank 1450
Associated Samples 1457-1461, 1490, 1491, 1494, 1495, 1498

Multiply Detection limits by 1 ☐ or 10 ☐ or ☐
(Check Box for Appropriate Factor)

ACID COMPOUNDS

PP#	CAS#		ug/l
(21A)	88-06-2	2,4,6-trichlorophenol	10U
(22A)	59-50-7	p-chloro-m-cresol	20U
(24A)	95-57-8	2-chlorophenol	10U
(31A)	122-83-2	2,4-dichlorophenol	10U
(34A)	105-67-9	2,4-dimethylphenol	10U
(57A)	88-75-5	2-nitrophenol	20U
(58A)	100-02-7	4-nitrophenol	100U
(59A)	51-28-5	2,4-dinitrophenol	50U
(60A)	534-52-1	4,6-dinitro-2-methylphenol	20U
(64A)	87-86-5	pentachlorophenol	20U
(65A)	108-95-2	phenol	10U

(Non-Priority Pollutant Hazardous Substances)

	65-85-0	benzoic acid	100U
	95-48-7	2-methylphenol	10U
	108-39-4	4-methylphenol	10U
	95-95-4	2,4,5-trichlorophenol	100U

BASE-NEUTRAL COMPOUNDS

(1B)	83-32-9	acenaphthene	10U
(5B)	92-87-5	benzidine	40U
(8B)	120-82-1	1,2,4-trichlorobenzene	10U
(9B)	118-74-1	hexachlorobenzene	10U
(12B)	67-72-1	hexachloroethane	10U
(18B)	111-44-4	bis(2-chloroethyl)ether	10U
(20B)	91-58-7	2-chloronaphthalene	10U
(25B)	95-50-1	1,2-dichlorobenzene	10U
(26B)	541-73-1	1,3-dichlorobenzene	10U
(27B)	106-46-7	1,4-dichlorobenzene	10U
(28B)	91-94-1	3,3'-dichlorobenzidine	20U
(35B)	121-14-2	2,4-dinitrotoluene	20U
(36B)	606-20-2	2,6-dinitrotoluene	20U
(37B)	122-66-7	1,2-diphenylhydrazine (as azobenzene)	20U
(39B)	206-44-0	fluoranthene	10U
(40B)	7005-72-3	4-chlorophenyl phenylether	10U
(41B)	101-55-3	4-bromophenyl phenyl ether	10U

BASE/NEUTRAL COMPOUNDS

PP#	CAS#		ug/l
(42B)	39638-32-9	bis-(2-chloroisopropyl)ether	20U
(43B)	111-91-1	bis-(2-chloroethoxy)methane	20U
(52B)	87-68-3	hexachlorobutadiene	10U
(53B)	77-47-4	hexachlorocyclopentadiene	10U
(54B)	78-59-1	isophorone	10U
(55B)	91-20-3	naphthalene	10U
(56B)	98-95-3	nitrobenzene	10U
(62B)	86-30-6	N-nitrosodiphenylamine	10U
(63B)	621-64-7	N-nitrosodi-n-propylamine	20U
(66B)	117-81-7	bis(2-ethylhexyl)phthalate	10U
(67B)	85-68-7	butyl benzyl phthalate	10U
(68B)	84-74-2	di-n-butyl phthalate	10U
(69B)	117-84-0	di-n-octyl phthalate	10U
(70B)	84-66-2	diethyl phthalate	10U
(71B)	131-11-3	dimethyl phthalate	10U
(72B)	56-55-3	benzo(a)anthracene	10U
(73B)	50-33-8	benzo(a)pyrene	20U
(74B)	205-99-2	benzo(b)fluoranthene	20U
(75B)	207-08-9	benzo(k)fluoranthene	20U
(76B)	218-01-9	chrysene	10U
(77B)	208-96-8	acenaphthylene	10U
(78B)	120-12-7	anthracene	10U
(79B)	191-24-2	benzo(ghi)perylene	20U
(80B)	86-73-7	fluorene	10U
(81B)	85-01-8	phenanthrene	10U
(82B)	53-70-3	dibenzo(a,h)anthracene	20U
(83B)	193-39-5	indeno(1,2,3-cd)pyrene	20U
(84B)	129-00-0	pyrene	10U

(Non-Priority Pollutant Hazardous Substances)

	62-53-3	aniline	10U
	100-51-6	benzyl alcohol	20U
	106-47-8	4-chloroaniline	50U
	132-64-9	dibenzofuran	10U
	91-57-6	2-methylnaphthalene	20U
	88-74-4	2-nitroaniline	100U
	99-09-2	3-nitroaniline	100U
	100-01-6	4-nitroaniline	100U

019747

ORGANICS ANALYSIS DATA SHEET - Page 3

Lab Name: Mead CompuChem

Lab Sample I.D. No. 1750
Blank

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
2-Fluorophenol	SEMIVOA	30	100	30
Pentafluorophenol	SEMIVOA	20	100	20
D6-Phenol	SEMIVOA		100	
D5-Nitrobenzene	SEMIVOA	56	100	56
Decaflorobiphenyl	SEMIVOA	68	100	68
2-Fluorobiphenyl	SEMIVOA	74	100	74
2-Fluoroaniline	SEMIVOA	60	100	60

EPA SAMPLE #

CC#

LAB NAME:

LAB SAMPLE I.D.# 1750

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC. (ug/g EV
1			None	FSCC		
2				FSCC		
3				FSCC		
4				FSCC		
5				FSCC		
6				FSCC		
7				FSCC		
8				FSCC		
9				FSCC		
10				FSCC		
11				FSCC		
12				FSCC		
13				FSCC		
14				FSCC		
15				FSCC		
16				FSCC		
17				FSCC		
18				FSCC		
19				FSCC		
20				FSCC		

019749

QUALITY ASSURANCE NOTICE

This sample has low recovery for pentafluorophenol. The recovery of the surrogate pentafluorophenol periodically dips below laboratory control limits. This phenomenon is under investigation. Since the other acid surrogate exhibits normal recovery, the sample results have been reported without any additional analyses.

Susan K. [illegible]
Quality Assurance Analyst

019750

Laboratory Name Mead CompuChem

Case Number 1687

QC Report No. 137.10

Lab Sample ID No. Blank 1744

Associated Samples 1457 - 1461, 1440, 1441, 1444, 1445, 1448

Multiply Detection Limits by 1 ☐ or 10 ☐ or ☐ _____

(Check Box for Appropriate Factor)

PESTICIDES

PP#	CAS#		ug/l
(89P)	309-00-2	aldrin	0.1U
(90P)	60-57-1	dieldrin	0.1U
(91P)	57-74-9	chlordane	0.1U
(92P)	50-29-3	4,4'-DDT	0.1U
(93P)	72-55-9	4,4'-DDE	0.1U
(94P)	72-54-8	4,4'-DDD	0.1U
(95P)	115-29-7	endosulfan I	0.1U
(96P)	115-29-7	endosulfan II	0.1U
(97P)	1031-07-8	endosulfan sulfate	0.1U
(98P)	72-20-8	endrin	0.1U
(99P)	7421-43-4	endrin aldehyde	0.1U
(100P)	76-44-8	heptachlor	0.1U
(101P)	1024-57-3	heptachlor epoxide	0.1U
(102P)	319-84-6	BHC-Alpha	0.1U
(103P)	319-85-7	BHC-Beta	0.1U
(104P)	319-86-8	BHC-Delta	0.1U
(105P)	58-89-9	BHC-Gamma	0.1U
(106P)	53469-21-9	PCB-1242	0.1U
(107P)	11097-69-7	PCB-1254	0.1U
(108P)	11104-28-2	PCB-1221	0.1U
(109P)	11141-16-5	PCB-1232	0.1U
(110P)	12672-29-6	PCB-1248	0.1U
(111P)	11096-82-5	PCB-1260	0.1U
(112P)	12674-11-2	PCB-1016	0.1U
(113P)	8001-35-2	toxaphene	0.1U

DIOXINS

			ug/l
(129B)	1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.002U

019751

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ORGANICS ANALYSIS DATA SHEET

Lab Name: Mead CompuChem

Case# 1687

QC Report# 13710

Lab Sample I.D. No. 1744 Blank-TCDD

Associated Samples 1457-61, 1440, 1491, 1494, 1495, 1498

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	Unit CONC. Area	(Surrogates only) Spike Added	Unit Area	% Recovery
1,2,3,4-TCDD	PEST	55.1	250		22

C12032
019752

(REV 2 3/83)

CCF: 1744

TCDD (PRE-PROCESSED HAZARDOUS WASTE)

DELIVERABLES

1. EICP (M/E 320; 322; 257; 332) INCLUDED? ☐ yes ☐ no

2. Ratio of ion intensity M/E 320 to 322 matches to within 10% of Standard Analysis (NATIVE TCDD PRESENCE CRITERION) ☐ yes ☐ no

3. Retention time of peak maximum for M/E 320 MATCHES exactly that of M/E 322 (± 1 SCAN) ☐ yes ☐ no

4. Signal to noise OF QUANT. MASS > 2.5 : 1 ☐ yes ☐ no

5. Percent Recovery Calculation

   A. Amount 1,2,3,4 TCDD (pg/ul) found in sample based on area of M/E 320 and internal standard calculation to M/E 332 OF $^{13}C_{-2,3,7,8}$: 55.1

   B. Final sample volume: 100 ul

   C. Spike level 1,2,3,4-TCDD: 25,000 pg

   $$\% \text{ RECOVERY} = \frac{A \times B}{C} \times 100\%$$

   $$= \frac{55.1 \times 100}{25000} \times 100\% = \boxed{22 \quad \%}$$

6. RIC intensity of background of sample < 5 times the average background of four point calibration ☐ yes ☐ no

0197530

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MEAD COMPUCHEM

RIC

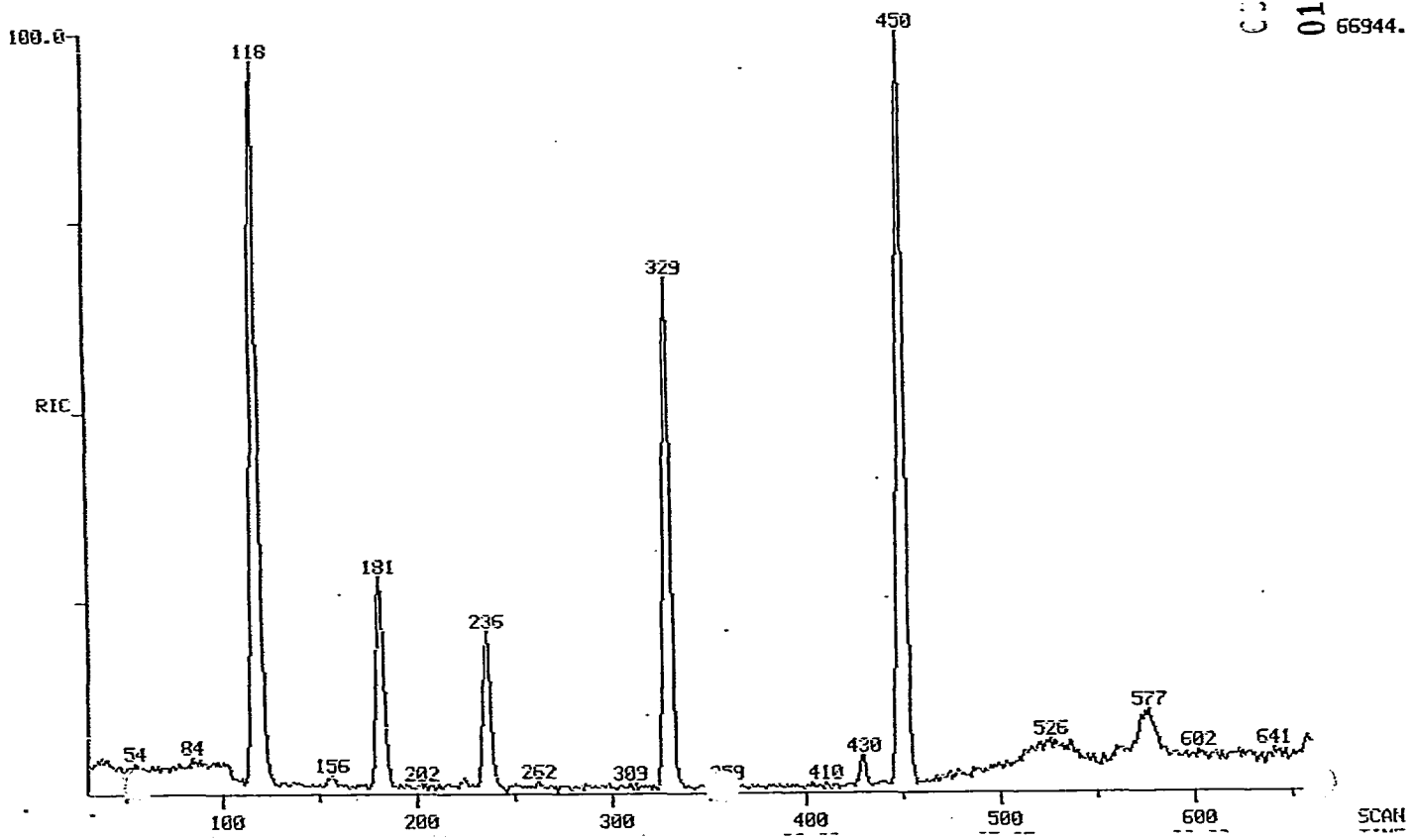
05/03/83 9:03:00

SAMPLE: 25 ML SAMPLE #1495 + 5 UL 8635&8637 ON #12

DATA: CR001495A12

SCANS 30-70 660

66944.



ROCEDURE: RK DIAGNOSTIC REPORT 5/03/83 9:32:24
ATA FILE: CR001495A12
EFERENCE: IFBS
METHOD: IFBS INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: IFBSS1

--- STANDARDS ------ ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
2	2	1	0	22	5	1	143	IFBSS1/IFBSU1
2	2	1	0	23	7	1	64	IFBSS2/IFBSU2

45 COMPOUNDS PROCESSED, 12 FOUND

COMPOUND ><					---------- SEARCH ---------- ><				SAT ><	------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	VJ	1	184	181	181	.	1	984	.	130	181	.	1
2	VM	2	237	236	236	.	1	998	.	67	236	.	1
3	VJ	2	31	31	.	.	.	.	.	50	.	.	.
4	VJ	3	59	58	.	.	.	.	.	62	.	.	.
5	VJ	4	77	76	.	.	.	.	.	64	.	.	.
6	VJ	5	47	46	.	.	.	.	.	94	.	.	.
7	VJ	6	130	129	.	.	.	.	.	56	.	.	.
8	VJ	7	144	143	.	.	.	.	.	53	.	.	.
9	VK	1	184	182	181	-1	1	984	.	130	181	.	1
10	VK	2	118	117	118	1	1	995	.	84	118	.	1
11	VK	3	158	156	156	.	1	989	.	101	155	-1	1
12	VK	4	173	171	.	.	.	.	.	96	.	.	.
13	VK	5	199	197	.	.	.	.	.	65	.	.	.
14	VK	6	213	211	.	.	.	.	.	96	.	.	.
15	VK	7	225	223	.	.	.	.	.	83	224	.	1
16	VK	8	240	238	.	.	.	.	.	62	.	.	.
17	VK	9	265	262	.	.	.	.	.	97	.	.	.
18	VK	10	272	269	.	.	.	.	.	117	.	.	.
19	VK	11	283	280	.	.	.	.	.	127	.	.	.
20	VN	2	130	129	.	.	.	.	.	58	.	.	.
21	VN	3	239	237	.	.	.	.	.	72	.	.	.
22	VN	6	148	146	.	.	.	.	.	76	.	.	.
23	VL	1	331	329	329	.	1	996	.	84	329	.	1
24	VM	3	450	450	450	.	1	998	.	100	450	.	1
25	VL	2	307	304	.	.	.	.	.	65	.	.	.
26	VL	3	313	310	.	.	.	.	.	75	.	.	.
27	VL	4	324	322	.	.	.	.	.	130	.	.	.
28	VL	5	333	331	330	-1	1	1000	.	78	.	.	.
29	VL	6	338	336	.	.	.	.	.	75	.	.	.
30	VL	7	338	336	.	.	.	.	.	97	.	.	.
31	VL	8	336	334	.	.	.	.	.	127	.	.	.
32	VL	9	386	385	.	.	.	.	.	173	.	.	.
33	VL	10	429	429	430	1	1	987	.	164	429	-1	1
34	VL	11	429	429	.	.	.	.	.	83	.	.	.
35	VL	12	453	454	454	.	1	994	.	92	454	.	1
36	VL	13	476	477	.	.	.	.	.	112	.	.	.
37	VL	14	517	519	.	.	.	.	.	106	.	.	.
38	VL	15	357	355	.	.	.	.	.	63	.	.	.
39	VM	1	331	329	329	.	1	996	.	84	329	.	1
40	VN	1	331	329	329	.	1	996	.	84	329	.	1
41	VN	4	394	393	.	.	.	.	.	58	.	.	.
42	VN	5	423	423	.	.	.	.	.	58	.	.	.
43	VN	7	276	272	.	.	.	.	.	43	.	.	.
44	VN	8	603	608	.	.	.	.	.	104	.	.	.
45	VN	9	631	636	.	.	.	.	999	106	.	.	.

019755

JANTITATION REPORT FILE: CR001495A12

ATA: CR001495A12.TI
5/03/83 9:03:00
AMPLE: 25 ML SAMPLE #1495 + 5 UL 8635&8637 ON #12
JBM ED BY: #12 ANALYST: 633

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

NO	NAME
1	*BROMOCHLOROMETHANE (INTERNAL STANDARD)
2	CHLOROMETHANE
3	VINYL CHLORIDE
4	CHLOROETHANE
5	BROMOMETHANE
6	ACROLEIN
7	ACRYLONITRILE
8	*BROMOCHLOROMETHANE (INTERNAL STANDARD)
9	METHYLENE CHLORIDE
10	TRICHLOROFLUOROMETHANE
11	1,1-DICHLOROETHYLENE
12	1,1-DICHLOROETHANE
13	TRANS-1,2-DICHLOROETHYLENE
14	CHLOROFORM
15	1,2-DICHLOROETHANE
16	1,1,1-TRICHLOROETHANE
17	CARBON TETRACHLORIDE
18	BROMODICHLOROMETHANE
19	*D6 BENZENE (INTERNAL STANDARD)
20	2-DICHLOROPROPANE
21	TRANS-1,3-DICHLOROPROPENE
22	TRICHLOROETHYLENE
23	BENZENE
24	CIS-1,3-DICHLOROPROPENE
25	1,1,2-TRICHLOROETHANE
26	DIBROMOCHLOROMETHANE
27	BROMOFORM
28	1,1,2,2-TETRACHLOROETHYLENE
29	1,1,2,2-TETRACHLOROETHANE
30	TOLUENE
31	CHLOROBENZENE
32	ETHYLBENZENE
33	2-CHLOROETHYL VINYL ETHER
34	*D6 BENZENE (INTERNAL STANDARD)
35	#D4 1,2-DICHLOROETHANE (SURROGATE)
36	#D8 TOLUENE (SURROGATE)
37	*D6 BENZENE (INTERNAL STANDARD)
38	ACETONE (2-PROPANONE)
39	2-BUTANONE
40	4-METHYL-2-PENTANONE
41	2-HEXANONE
42	CARBON DISULFIDE
43	VINYL ACETATE
44	STYRENE
45	O-XYLENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

019756

30

IO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	130	181	9:12	1	1.000	A BB	14084.	4.000 UG/L	9.68
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	130	181	9:12	8	1.000	A BB	14084.	4.000 UG/L	9.68
9	84	118	6:00	8	0.652	A BB	54193.	12.652 UG/L	8.61
0	101	155	7:53	8	0.856	A BB	1914.	0.106 UG/L	0.26
1	NOT FOUND								
2	NOT FOUND								
3	NOT FOUND								
4	83	224	11:23	8	1.238	A BB	1087.	0.074 UG/L	0.18
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	84	329	16:43	19	1.000	A BB	81874.	4.000 UG/L	9.68
0	NOT FOUND								
1	NOT FOUND								
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	164	429	21:48	19	1.304	A BB	1378.	0.124 UG/L	0.30
9	NOT FOUND								
0	92	454	23:05	19	1.380	A BB	1147.	0.106 UG/L	0.26
1	NOT FOUND								
2	NOT FOUND								
3	NOT FOUND								
4	84	329	16:43	34	1.000	A BB	81874.	4.000 UG/L	9.68
5	67	236	12:00	34	0.717	A BB	12592.	4.092 UG/L	9.90
6	100	450	22:52	34	1.368	A BB	61134.	4.233 UG/L	10.24
7	84	329	16:43	37	1.000	A BB	81874.	4.000 UG/L	9.68
8	NOT FOUND								
9	NOT FOUND								
0	NOT FOUND								
1	NOT FOUND								
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								

O	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	9:21	0.98	1.000	1.00	4.00	4.00	1.000	1.000	1.00
2	1:35		0.168			16.00		1.368	
3	3:00		0.321			16.00		1.573	
4	3:55		0.418			16.00		0.932	
5	2:23		0.255			16.00		2.082	
6	6:36		0.707			159.99		0.035	
7	7:19		0.783			159.99		0.054	
8	9:21	0.98	1.000	1.00	4.00	4.00	1.000	1.000	1.00
9	6:00	1.00	0.641	1.02	12.65	16.00	0.962	1.217	0.79

049757

O	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
0	8:02	0.98	0.859	1.00	0.11	16.00	0.034	5.138	0.01
1	8:48		0.940			16.00		1.379	
2	[illegible]:07		1.082			16.00		0.837	
3	[illegible]:50		1.158			16.00		1.038	
4	11:26	1.00	1.223	1.01	0.07	16.00	0.019	4.151	0.00
5	12:12		1.304			16.00		1.685	
6	13:28		1.440			16.00		3.843	
7	13:50		1.478			16.00		4.691	
8	14:23		1.538			16.00		0.264	
9	16:46	1.00	1.000	1.00	4.00	4.00	1.000	1.000	1.00
0	15:36		0.930			16.00		0.079	
1	15:55		0.948			16.00		0.375	
2	16:28		0.982			16.00		0.452	
3	16:56		1.009			16.00		0.630	
4	17:11		1.024			16.00		0.164	
5	17:11		1.024			16.00		0.161	
6	17:05		1.018			16.00		0.241	
7	19:37		1.170			16.00		0.124	
8	21:48	1.00	1.300	1.00	0.12	16.00	0.004	0.542	0.01
9	21:48		1.300			16.00		0.123	
0	23:02	1.00	1.373	1.01	0.11	16.00	0.004	0.527	0.01
1	24:12		1.442			16.00		0.835	
2	26:17		1.567			16.00		0.374	
3	18:09		1.082			16.00		0.062	
4	16:46	1.00	1.000	1.00	4.00	4.00	1.000	1.000	1.00
5	12:06	0.99	0.721	0.99	4.09	4.00	0.154	0.150	1.02
6	22:52	1.00	1.364	1.00	4.23	4.00	0.747	0.706	1.06
7	16:46	1.00	1.000	1.00	4.00	4.00	1.000	1.000	1.00
8	[illegible]:36		0.394			120.00		0.003	
9	12:06		0.721			120.00		0.004	
0	20:02		1.194			120.00		0.023	
1	21:30		1.282			120.00		0.018	
2	7:31		0.448			16.00		0.808	
3	14:02		0.836			16.00		0.174	
4	30:42		1.830			16.00		0.723	
5	32:08		1.915			16.00		0.488	

019753

COMPUCHEM NO._____ DATE_____

IDENTIFIER VOA -- LOW LEVEL LIQUID

COMPOUND LIST - NO. _____ (Page One of Two)

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	QUANT.REPORT VALUE	x	CORRECTION FACTOR	=	RESULT	DETECTION LIMIT (ug/
2.	221	CHLOROMETHANE			1			~~5~~ 1
3.	231	VINYL CHLORIDE						~~5~~ 1
4.	209	CHLOROETHANE						~~5~~ 1
5.	220	BROMOMETHANE						~~5~~ 1
6.	201	ACROLEIN						~~100~~ 20
7.	202	ACRYLONITRILE						~~100~~ 20
8.	222	METHYLENE CHLORIDE	13				13	~~5~~ 1
9.	230	TRICHLOROFLUOROMETHANE						~~5~~ 1
10.	216	1,1-DICHLOROETHYLENE						~~5~~ 1
11.	214	1,1-DICHLOROETHANE						~~5~~ 1
12.	226	TRANS-1,2-DICHLOROETHYLENE						~~5~~ 1
13.	211	CHLOROFORM						~~5~~ 1
14.	215	1,2-DICHLOROETHANE						~~5~~ 1
5.	227	1,1,1-TRICHLOROETHANE						~~5~~ 1
16.	206	CARBON TETRACHLORIDE						~~5~~ 1
17.	212	BROMODICHLOROMETHANE						~~5~~ 1
18.	217	1,2-DICHLOROPROPANE						~~5~~ 1
19.	250	TRANS-1,3-DICHLOROPROPENE .						~~5~~ 1
20.	229	TRICHLOROETHYLENE						~~5~~ 1
21.	203	BENZENE						~~5~~ 1
22.	218	CIS-1,3-DICHLOROPROPENE ...						~~10~~ 2
23.	228	1,1,2-TRICHLOROETHANE						~~5~~ 1
24.	208	DIBROMOCHLOROMETHANE						~~5~~ 1
25.	205	BROMOFORM						~~5~~ 1
26.	224	1,1,2,2-TETRACHLOROETHYLENE						~~5~~ 1
27.	223	1,1,2,2-TETRACHLOROETHANE .						~~5~~ 1
28.	225	TOLUENE						~~5~~ 1
29.	207	CHLOROBENZENE						~~5~~ 1
30.	219	ETHYLBENZENE						~~5~~ 1
31.	210	2-CHLOROETHYL VINYL ETHER .					019753	~~5~~ 1
4.	252	ACETONE (2-PROPANE)						~~100~~ 20

PLEASE COMPLETE CORRECTION FACTOR CALCULATIONS ON SECOND SHEET OF THE COMPOUND LIST!!

COMPUCHEM NO._____ DATE_____

IDENTIFIER VOA -- LOW LEVEL LIQUID

COMPOUND LIST - NO. _____ (Page Two of Two)

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	QUANT.REPORT VALUE	x	CORRECTION FACTOR	=	RESULT	DETECTION LIMIT (ug/l)
39.	253	2-BUTANONE			1		BDL	~~200~~ 40
40.	256	4-METHYL-2-PENTANONE						~~100~~ 20
41.	255	2-HEXANONE						~~100~~ 20
42.	254	CARBON DISULFIDE						~~10~~ 2
43.	257	VINYL ACETATE						~~10~~ 2
44.	251	STYRENE						~~5~~ 1
45.	239	o-XYLENE						~~5~~ 1

Correction Factor Calculation:
(Use ONLY if factor affects all data, otherwise use correct calculation sheet.)

019760

C02330

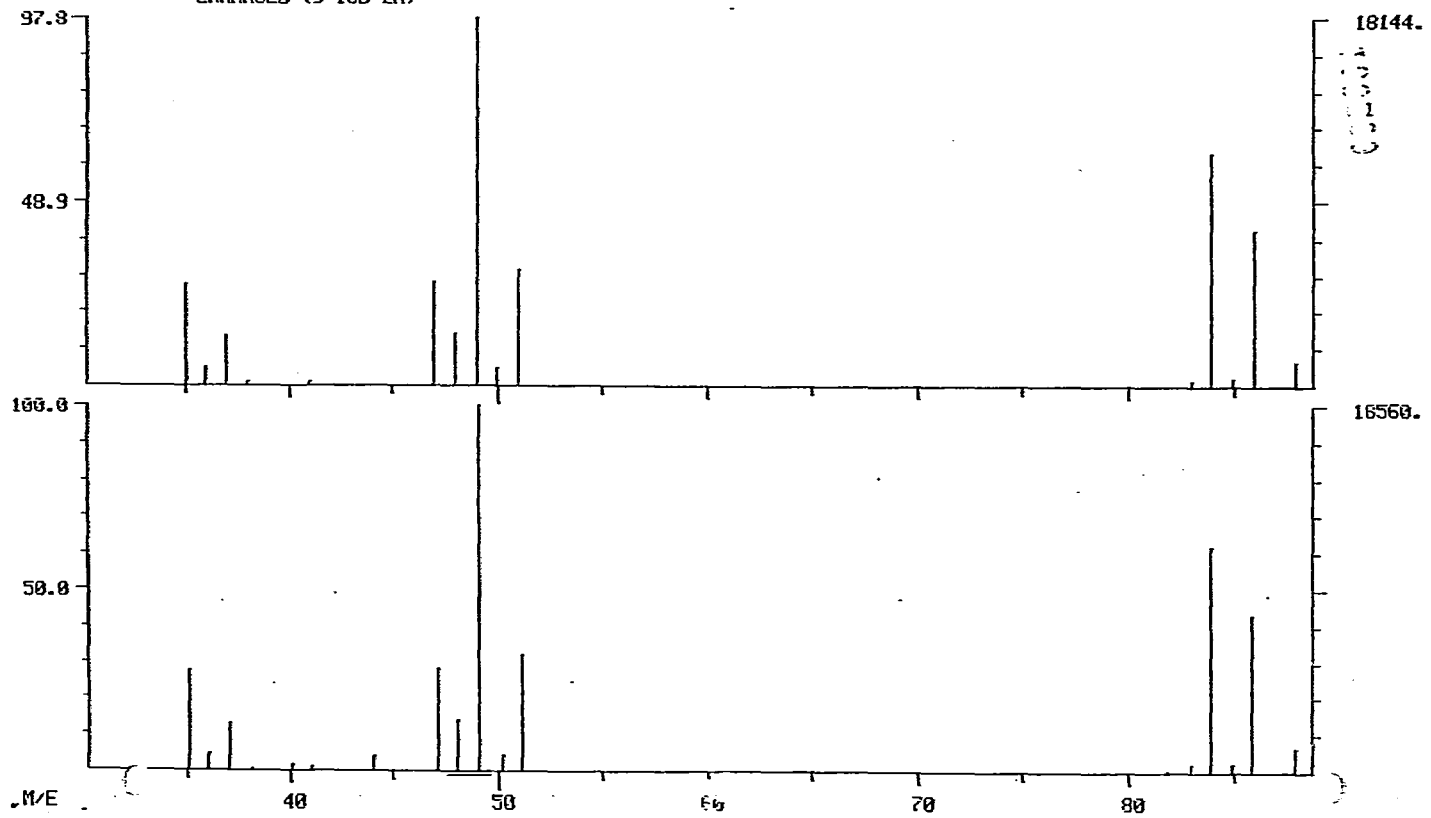
4 80

222 75-09-2

MEAD COMPUCHEM

DUAL MASS SPECTRUM
05/03/83 9:03:00 + 6:00
SAMPLE: 25 ML SAMPLE #1495 + 5 UL 8635&8637 ON #12
ENHANCED (S 15B 2H)

DATA: CR001495A12 #118 BASE M/E: 49/ 49
RIC: 62271./ 14703.



019761

MEAD COMPUCHEM

RIC

05/03/83 4:24:00

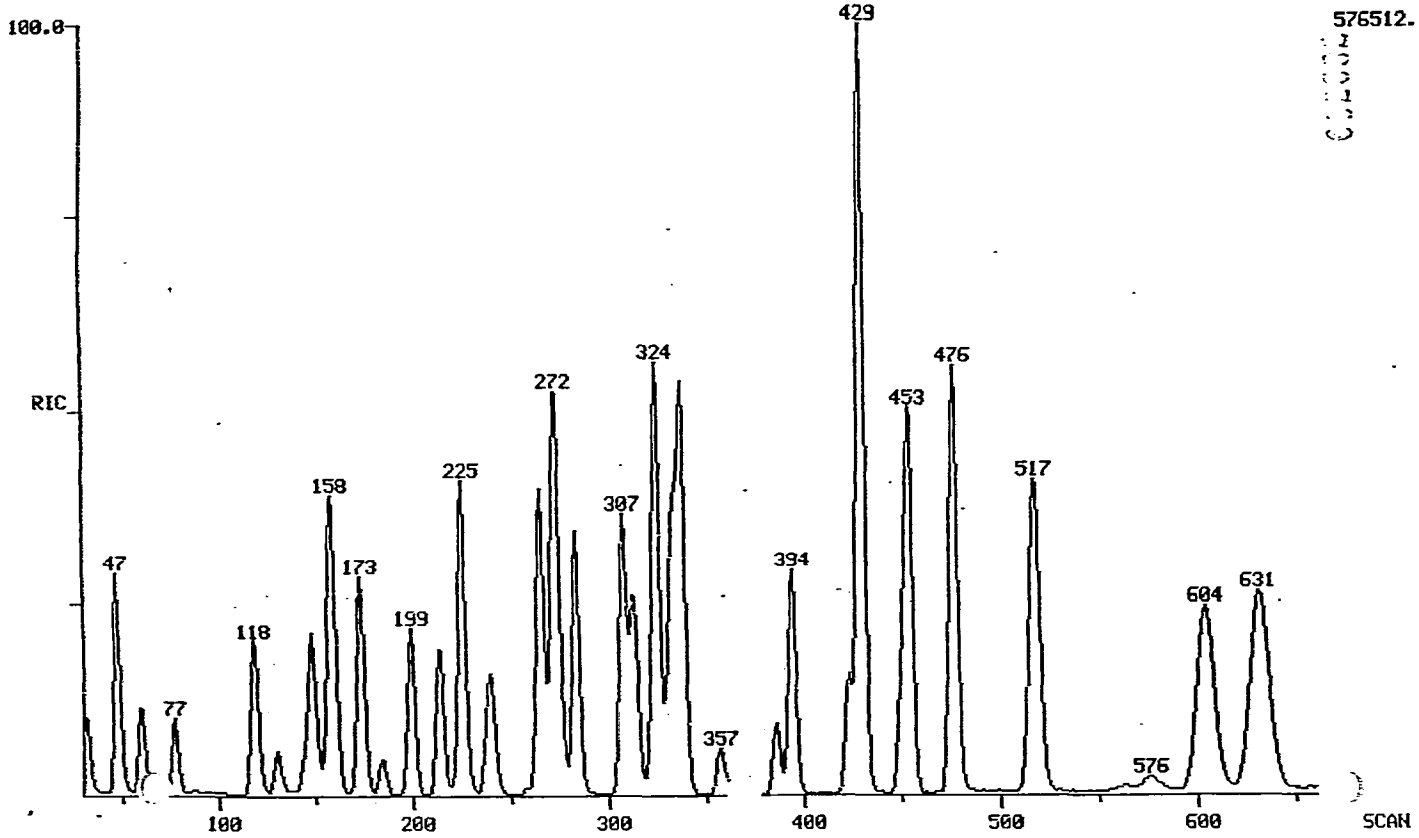
DATA: CS830503C12

SCANS 30 TO 660

SAMPLE: 25 ML H2O + 5 UL (8635+8637) + MEDIUM LEVEL IFBS STD 1814

019762

576512.



FORM IA

GC/MS PERFORMANCE STANDARD - BromoFluorobenzene

Date 5/3/87 Run No. DF830503C12 Analyst 7/4

m/e	Ion Abundance Criteria	% Relative Abundance
50	15-40% of the base peak	24
75	30-60% of the base peak	44
95	Base peak, 100% relative abundance	100
96	5-9% of the base peak	5.8
173	Less than 2% of the base peak	—
174	Greater than 50% of the base peak	78
175	5-9% of mass 174	5.4 (7.1)
176	Greater than 50% of the base peak	77
177	5-9% of mass 176	6.6 (8.5)

Spike in ( ) is % of mass 174.

Spike in ( ) is % of mass 176.

[redacted]

CC 019763

MEAD COMPUCHEM
DATA: BFB30503C12 # 172

BASE M/E: 95
RIC: 37120.

SS LIST
/03/83 3:11:00 + 8:45
MPLE: 2 UL BFB 8676
172 - #30 X1.00

3 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 7208.
269 # 0 MAXIMA

MASS	% RA	MASS	% RA
37	7.82	269	0.75
38	6.44		
39	4.16		
48	0.83		
49	5.85		
50	24.08		
51	5.48		
52	1.04		
53	0.72		
55	0.32		
56	0.44		
57	5.36		
58	0.24		
61	4.45		
62	6.09		
63	3.14		
67	1.21		
68	11.07		
69	6.23		
70	1.62		
7	1.23		
7	13.60		
74	25.61		
75	43.78		
76	6.70		
79	5.31		
80	1.28		
81	7.13		
83	0.83		
87	1.60		
88	1.40		
91	1.40		
92	3.23		
93	7.14		
94	10.57		
95	100.00		
96	5.76		
97	1.79		
111	0.75		
119	0.79		
141	1.11		
147	1.00		
174	78.14		
175	5.56		
176	76.91		
177	6.55		
19	1.39		
20	0.17		
267	4.34		
268	2.09		

VOA

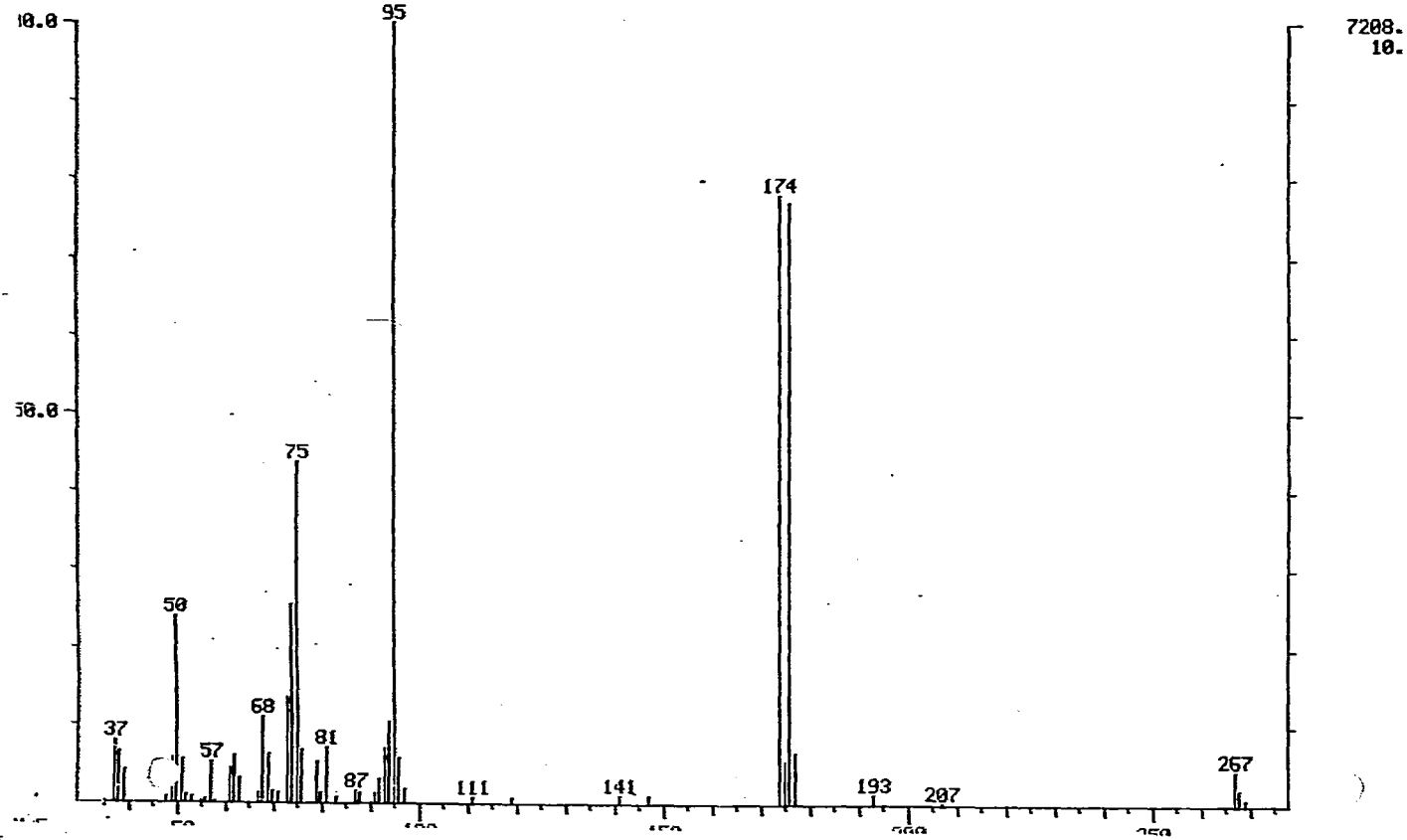
019764

MEAD COMPUCHEM

MASS SPECTRUM
05/03/83 3:11:00 + 8:45
SAMPLE: 2 UL BFB 8676
#172 - #30 X1.00

DATA: BF830503C12 #172

BASE M/E: 95
RIC: 37120.



019765

[illegible]-MAY-[illegible]

Time: 15:37

Research Triangle Park
Instrument: [illegible]
Operator: [illegible]
Version: [illegible]
Matrix: Volatile

Acme Computer
INITIAL CALIBRATION DATA REPORT

Compounds		Lab ID: CU[illegible]628:12 Std ID: 1515 (LOW) Conc	Area	Lab ID: CT330628[illegible] Std ID: 1516 (MED) Conc	Area	Lab ID: CS330628512 Std ID: 1515 (HIGH) Conc	Area
BROMOCHLOROMETHANE	(IS)	20.00	75694	20.00	77654	20.00	78369
BROMOCHLOROMETHANE	(IS)	20.00	75694	20.00	77654	20.00	78369
D-5 BENZENE	(IS)	20.00	327512	20.00	246930	20.00	255836
D-5 BENZENE	(IS)	20.00	327512	20.00	246930	20.00	255836
D-5 BENZENE	(IS)	20.00	327512	20.00	246930	20.00	255836

	Conc	RF	RRT	Conc	RF	RRT	Conc	RF	RRT	Correlation Coefficients
METHYL CHLORIDE	40.00	.637	.172	80.00	.656	.176	120.00	.525	.177	-.979
VINYL CHLORIDE	40.00	.790	.335	80.00	.677	.330	120.00	.629	.331	-.979
CHLOROETHANE	40.00	.436	.426	80.00	.492	.423	120.00	.368	.420	-1.000
METHYL BROMIDE	40.00	1.003	.261	80.00	1.020	.264	120.00	.823	.260	-.823
ACROLEIN	400.00	.107	.711	800.00	.097	.737	1200.00	.095	.737	-.906
ACRYLONITRILE	400.00	.157	.739	800.00	.145	.731	1200.00	.140	.730	-.999
METHYLENE CHLORIDE	40.00	1.075	.550	80.00	.935	.648	120.00	.827	.652	-.997
TRICHLOROFLUOROMETHANE	40.00	2.573	.857	80.00	2.612	.843	120.00	2.419	.857	-.746
1,1-DICHLOROETHYLENE	40.00	.859	.939	80.00	.909	.965	120.00	.827	.965	-.390
1,1-DICHLOROETHANE	40.00	.503	1.078	80.00	.505	1.092	120.00	.469	1.093	-.935
1,2-TRANS-DICHLOROETHYLENE	40.00	.656	1.152	80.00	.665	1.159	120.00	.615	1.160	-.770
CHLOROFORM	40.00	2.540	1.222	80.00	2.391	1.225	120.00	2.237	1.227	-.939
1,2-DICHLOROETHANE	40.00	1.549	1.300	80.00	1.429	1.328	120.00	1.397	1.309	-.946
1,1,1-TRICHLOROETHANE	40.00	1.872	1.423	80.00	1.972	1.460	120.00	1.769	1.462	-.931
CARBON TETRACHLORIDE	40.00	2.132	1.472	80.00	2.137	1.478	120.00	1.998	1.481	-.721
DICHLOROBROMOMETHANE	40.00	.137	1.533	80.00	.136	1.538	120.00	.132	1.541	-.979
1,2-DICHLOROPROPANE	40.00	.196	.932	80.00	.101	.936	120.00	.092	.936	-.980
TRANS-1,3-DICHLOROPROPYLENE	40.00	.537	.947	80.00	.562	.951	120.00	.525	.951	-.999
TRICHLOROETHYLENE	40.00	.443	.978	80.00	.429	.982	120.00	.338	.982	-.999
BENZENE	40.00	.705	1.009	80.00	.659	1.009	120.00	.596	1.009	-.996
CIS-1,3-DICHLOROPROPYLENE	40.00	.325	1.025	80.00	.284	1.026	120.00	.276	1.025	-.943
1,1,2-TRICHLOROETHANE	40.00	.355	1.025	80.00	.295	1.026	120.00	.289	1.025	-.905
CHLORODIBROMOMETHANE	40.00	.436	1.019	80.00	.418	1.018	120.00	.412	1.018	-.902
BROMOFORM	40.00	.566	1.130	80.00	.275	1.174	120.00	.310	1.175	-.693
TETRACHLOROETHYLENE	40.00	.455	1.322	80.00	.414	1.309	120.00	.371	1.313	-1.000
1,1,2,2-TETRACHLOROETHANE	40.00	.376	1.319	80.00	.292	1.319	120.00	.322	1.310	-.687
TOLUENE	40.00	.570	1.399	80.00	.526	1.335	120.00	.476	1.337	-.997
CHLOROBENZENE	40.00	.966	1.667	80.00	.859	1.453	120.00	.779	1.457	-1.000
ETHYLBENZENE	40.00	.357	1.596	80.00	.330	1.578	120.00	.306	1.593	-1.000
2-CHLOROETHYLVINYL ETHER	40.00	.210	1.537	80.00	.170	1.339	120.00	.136	1.033	-.601
D4 1,2-DICHLOROETHANE	20.00	.316	.718	20.00	.230	.722	20.00	.277	.721	-.000
D-8 TOLUENE	20.00	.748	1.347	20.00	.739	1.373	20.00	.709	1.377	-.000
ACETONE (2-PROPANONE)	300.00	.018	.399	600.00	.017	.378	900.00	.013	.396	-.929
2-BUTANONE	300.00	.024	.718	600.00	.023	.725	900.00	.019	.721	-.921
4-METHYL-2-PENTANONE	300.00	.106	1.297	600.00	.094	1.299	900.00	.095	1.139	-.836
2-HEXANONE	300.00	.049	1.337	600.00	.033	1.231	900.00	.077	1.231	-.969
CARBON DISULFIDE	40.00	.452	.452	80.00	.414	.450	120.00	.326	.448	-.925
VINYL ACETATE	40.00	.644	.490	80.00	.517	.555	120.00	.569	.831	-.595
STYRENE	40.00	.856	1.853	80.00	.773	1.855	120.00	.072	1.866	-.909
P-XYLENE	40.00	.475	1.936	80.00	.442	1.930	120.00	.405	1.926	-1.000

019769

Time: 15:43

019787

CC2357

[illegible]-[illegible]-[illegible]

Research Triangle Park
Instrument: 12
Library: 16
Version: 17
Fraction: Volatile

Model GC/MS
STANDARD RESPONSE: FRITZ CHECK REPORT

Compounds		STD ID: 1FIS (MEAN) Area(CC)	ID: CS2353924I2 Analyst: 535 Area(CK)	%C **
BROMOCHLOROMETHANE	(IS)	75547	43633	-42.[illegible]
BROMOCHLOROMETHANE	(IS)	75547	43633	-42.5
[illegible] BENZENE	(IS)	255305	143636	-43.[illegible]
[illegible] BENZENE	(IS)	255305	143636	-43.[illegible]
[illegible] BENZENE	(IS)	255305	143636	-43.[illegible]

	RF (CC)	RF (CK)	%C **
ETHYL CHLORIDE	.524	.532	6.6
VINYL CHLORIDE	.524	.717	13.3
CHLOROETHANE	.563	.345	6.6
ETHYL BROMIDE	.523	.365	15.9
ACROLEIN	.095	.038	-3.2
ACRYLONITRILE	.143	.132	-3.3
METHYLENE CHLORIDE	.327	.250	-.5
DICHLOROFLUOROMETHANE	2.419	2.722	12.5
1-DICHLOROETHYLENE	.427	.733	-4.1
1-DICHLOROETHANE	.469	.436	3.3
2-TRANS-DICHLOROETHYLENE	.515	.596	-3.6
CHLOROFORM	2.287	2.496	11.5
2-DICHLOROETHANE	1.597	1.739	23.6
1,1-TRICHLOROETHANE	1.764	2.047	15.9
CARBON TETRACHLORIDE	1.343	2.477	27.5
DICHLOROBROMOMETHANE	.192	.236	14.3
2-DICHLOROPROPANE	.072	.075	3.1
CIS-1,3-DICHLOROPROPYLENE	.525	.542	3.3
TRICHLOROETHYLENE	.525	.431	3.6
BENZENE	.596	.535	-1.5
TRANS-1,3-DICHLOROPROPYLENE	.274	.239	7.0
1,1,2-TRICHLOROETHANE	.259	.371	11.3
DIBROMOCHLOROMETHANE	.412	.466	12.3
BROMOFORM	.513	.350	15.7
TETRACHLOROETHYLENE	.371	.493	21.3
1,1,2,2-TETRACHLOROETHANE	.562	.392	12.5
TOLUENE	.476	.511	7.6
CHLOROBENZENE	.779	.672	11.9
ETHYLBENZENE	.304	.341	12.1
2-CHLOROETHYLVINYL ETHER	.155	.171	-7.3
1,2-DICHLOROETHANE	.277	.290	6.6
M-S TOLUENE	.704	.710	.2
ACETONE (2-PROPANONE)	.913	.911	-12.0
2-BUTANONE	.314	.017	-12.8
4-METHYL-2-PENTANONE	.055	.057	1.9
2-HEXANONE	.077	.077	.5
CARBON DISULFIDE	.725	.667	-3.1
ETHYL ACETATE	.55[illegible]	.431	-23.5
STYRENE	.973	.6[illegible]	397.0
O-XYLENE	.305	.3[illegible]2	-3.2

Mark CompuChem
STANDARDS RELATIVE RESPONSE REPORT

Time: 15:50

019768

90

Research Triangle Park
Instrument: 12
Library: 10
Version: 19
Fraction: Volatile

Compounds		Initial Run ID: CS330428A12 STD Conc	RRT	Check Standards ID: CS870507A12 RRT	DIFF
BROMOCHLOROMETHANE	(IS)	20.00	1.000	1.000	.000
METHYL CHLORIDE		100.00	.177	.178	.001
VINYL CHLORIDE		100.00	.351	.356	.005
CHLOROETHANE		100.00	.423	.415	.008
METHYL BROMIDE		100.00	.263	.258	.005
ACROLEIN		1000.00	.707	.713	.006
ACRYLONITRILE		1000.00	.741	.746	.006
BROMOCHLOROMETHANE	(IS)	20.00	1.000	1.000	.000
METHYLENE CHLORIDE		100.00	.653	.653	.000
TRICHLOROFLUOROMETHANE		100.00	.847	.851	.005
1,1-DICHLOROETHYLENE		100.00	.945	.940	.005
1,1-DICHLOROETHANE		100.00	1.095	1.092	.003
1,2-TRANS-DICHLOROETHYLENE		100.00	1.143	1.136	.005
CHLOROFORM		100.00	1.227	1.230	.007
1,2-DICHLOROETHANE		100.00	1.309	1.312	.007
1,1,1-TRICHLOROETHANE		100.00	1.442	1.436	.006
CARBON TETRACHLORIDE		100.00	1.451	1.473	.003
DICHLORODIBROMOMETHANE		100.00	1.541	1.527	.014
ALPHA BENZENE	(IS)	20.00	1.000	1.000	.000
1,2-DICHLOROPROPANE		100.00	.835	.833	.003
TRANS-1,3-DICHLOROPROPYLENE		100.00	.951	.942	.009
TRICHLOROETHYLENE		100.00	.932	.932	.000
BENZENE		100.00	1.039	1.036	.003
CIS-1,3-DICHLOROPROPYLENE		100.00	1.026	1.021	.005
1,1,2-TRICHLOROETHANE		100.00	1.025	1.021	.005
CHLORODIBROMOMETHANE		100.00	1.015	1.015	.000
BROMOFORM		100.00	1.175	1.172	.003
TETRACHLOROETHYLENE		100.00	1.313	1.310	.003
1,1,2,2-TETRACHLOROETHANE		100.00	1.313	1.310	.003
TOLUENE		100.00	1.357	1.357	.000
CHLOROBENZENE		100.00	1.457	1.457	.000
ETHYL BENZENE		100.00	1.535	1.533	.002
2-CHLOROETHYLVINYL ETHER		100.00	1.035	1.030	.005
1-PB BENZENE	(IS)	20.00	1.000	1.000	.000
1,4-DICHLOROBENZENE		20.00	.721	.721	.000
1-B TOLUENE		20.00	1.377	1.376	.001
4-BR BENZENE	(IS)	20.00	1.000	1.000	.000
ACETONE (2-PROPANONE)		200.00	.375	.376	.001
2-BUTANONE		200.00	.721	.721	.000
4-METHYL-2-PENTANONE		200.00	1.177	1.179	.002
2-HEXANONE		200.00	1.291	1.291	.000
CARBON DISULFIDE		100.00	.463	.465	.002
VINYL ACETATE		100.00	.651	.651	.000
STYRENE		100.00	1.347	1.347	-.000
P-XYLENE		100.00	1.355	1.355	-.000

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05554 Item

Check Standards

Date	Ref	Ins	Ref	Ins
2102	816-1	505	585-1	505
2102	515-1	506	585-1	506
2102	515-1	507	585-1	507
1102	817-1	508	222-1	508
1002	552-1	509	222-1	509
2002	302-1	510	222-1	510
2002	817-1	511	222-1	511
2002	515-1	512	222-1	512
2002	157-1	513	222-1	513
2002	300-1	514	222-1	514
2002	515-1	515	222-1	515
2002	157-1	516	222-1	516
2002	000-1	517	222-1	517
2002	010-1	518	222-1	518
2002	025-1	519	222-1	519
2002	227-1	520	222-1	520
2002	926-1	521	222-1	521
2002	505-1	522	222-1	522
2002	505-1	523	222-1	523
2002	921-1	524	222-1	524
2002	910-1	525	222-1	525
2002	220-1	526	220-1	526
2002	220-1	527	220-1	527
2002	460-1	528	926-1	528
2002	256-	529	256-	529
2002	926-	530	926-	530
2002	010-	531	010-	531
2002	010-	532	010-	532
2002	495-1	533	495-1	533
2002	965-1	534	965-1	534
2002	497-1	535	497-1	535
2002	225-1	536	225-1	536
2002	512-	537	512-	537
2002	497-1	538	497-1	538
2002	050-1	539	050-1	539
2002	996-	540	996-	540
2002	192-	541	192-	541
2002	059-	542	059-	542
2002	000-1	543	000-1	543
2002	412-	544	412-	544
2002	112-	545	112-	545
2002	192-	546	192-	546
2002	229-	547	229-	547
2002	825-	548	825-	548
2002	221-	549	221-	549
2002	000-1	550	000-1	550

Comments

Date	Ref	Ins	Ref	Ins
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Instrument Num

Date	Comp	Ins
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10-MAY-85, 14:27
Research Triangle Park
Fraction: Volatile
Instrument= 12
Library= 13
Version= 14

HP-5B COMPUTER
Internal Standard Response Verification Report

2-MAY-85 09:15 - 3-MAY-85 09:46

Int. Std. A
BROMOCHLOROMETHANE
Conc: 20.0000

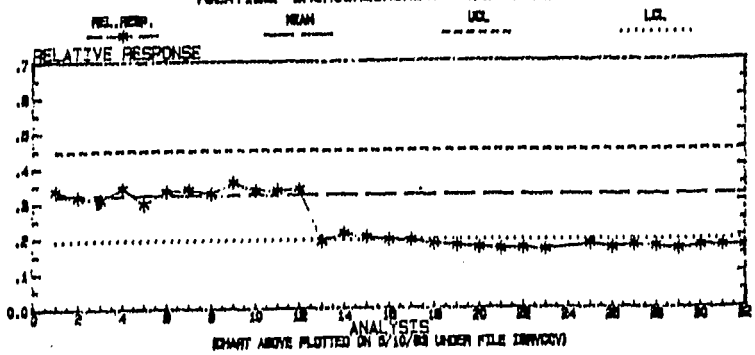
Int. Std. B
D-6 BENZENE
Conc: 20.0000

Int. Std. C
Conc: .0000

Sample/Run	Date	Analyst	Scan	Area	Relative Retention	Scan	Area	Relative Retention	Relative Response	Scan	Area	Relative Retention	Relative Response
C9830423B12	29-APR-85	673	182	75594.	.5573	325	227512.	1.0000	.3327				
C8830423B12	26-APR-85	673	182	77554.	.5564	327	245499.	1.0000	.3145				
C8830423B12	28-APR-85	673	181	72562.	.5552	326	253395.	1.0000	.3063				
C8830502B12	2-MAY-85	633	180	63264.	.5534	325	228224.	1.0000	.3374				
C8830502B12A	2-MAY-85	633	182	63973.	.5553	326	163089.	1.0000	.2935				
C9001461B12	2-MAY-85	633	180	32453.**	.5565	327	99394.**	1.0000	.3293				
C9001467B12	2-MAY-85	633	181	33473.**	.5562	325	97575.**	1.0000	.3335				
C9001479B12	2-MAY-85	633	182	33394.**	.5565	327	105343.**	1.0000	.3219				
C9001494B12	2-MAY-85	633	179	30435.**	.5562	325	87677.**	1.0000	.3523				
C9001493B12	2-MAY-85	633	180	32153.**	.5553	325	97567.**	1.0000	.3296				
C9001449B12	2-MAY-85	633	182	32235.**	.5565	327	97704.**	1.0000	.3321				
C9001528B12	2-MAY-85	673	181	31627.**	.5565	330	94762.**	1.0000	.3344				
C9001529B12	2-MAY-85	673	196	15227.**	.5575	330	47165.**	1.0000	.1562*				
C8830502B12	2-MAY-85	673	182	19195.**	.5566	327	72183.**	1.0000	.2982				
C8830502B12B	2-MAY-85	673	181	19795.**	.5655	330	130151.**	1.0000	.1776				
C9001533B12	2-MAY-85	673	181	15357.**	.5552	326	79327.**	1.0000	.1937*				
C9001531B12	2-MAY-85	673	180	16395.**	.5535	325	75514.**	1.0000	.1891*				
C9001532B12	2-MAY-85	673	182	12207.**	.5493	331	68516.**	1.0000	.1782*				
C9001450B12	2-MAY-85	673	180	11772.**	.5505	327	67930.**	1.0000	.1734*				
C9001451B12	2-MAY-85	673	182	11363.**	.5493	331	62367.**	1.0000	.1679*				
C9001453C12	3-MAY-85	714	184	10365.**	.5576	330	66663.**	1.0000	.1635*				
C9001455C12	3-MAY-85	714	182	10361.**	.5566	327	66952.**	1.0000	.1649*				
C9001457C12	3-MAY-85	714	181	10763.**	.5511	324	66324.**	1.0000	.1622*				
C8830503C12	3-MAY-85	714	185	19663.**	.5579	325	77625.**	1.0000	.1756				
C8830503C12C	3-MAY-85	714	184	20791.**	.5575	330	118122.**	1.0000	.1760*				
C9001460C12	3-MAY-85	714	181	14276.**	.5513	323	64775.**	1.0000	.1669*				
C9001460C12	3-MAY-85	714	182	15513.**	.5515	331	69335.**	1.0000	.1735*				
C9001461C12	3-MAY-85	714	182	15115.**	.5565	327	68477.**	1.0000	.1701*				
C9001462C12	3-MAY-85	714	181	13540.**	.5584	326	53567.**	1.0000	.1679*				
C9001463B12	2-MAY-85	633	181	13573.**	.5555	326	77763.**	1.0000	.1713*				
C9001495B12	3-MAY-85	633	181	14031.**	.5593	323	81276.**	1.0000	.1727*				
C9001493B12	3-MAY-85	633	181	13951.**	.5583	323	79755.**	1.0000	.1695*				

INI.STD.HESP.VERIFICATION CONTROL CHART

VOLATILE: BROMOCHLOROMETHANE/D8-BENZENE



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5-2-93	6-23	Possible matrix effect
5-2-93	6-23	
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5-2-93	6-23	
5-2-93	6-23	Possible matrix effect
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5-3-93	7-14	Possible matrix effect
5-3-93	7-14	
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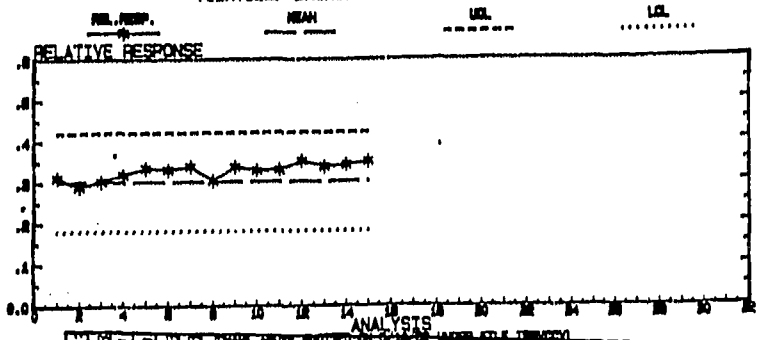
C52162

019772

VOLATILE: BROMOCHLOROMETHANE/DI-BENZENE



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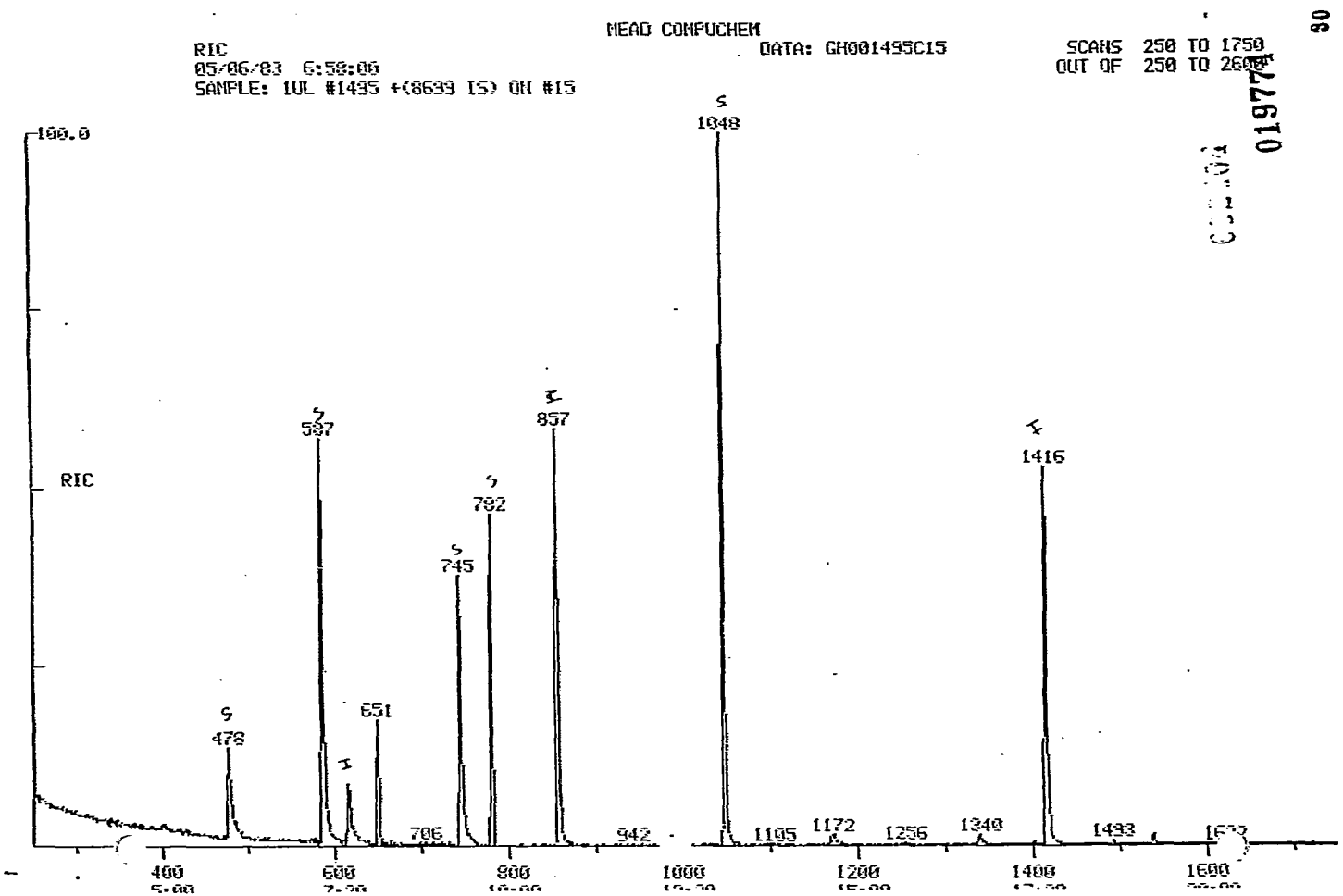
COMMENTS																																		

019773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05/06/83 6:58:00
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OUT OF 250 TO 2600
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RIC
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782
857
942
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1105
1172
1256
1340
1416
1493
400
600
800
1000
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1400
1600

80

0197710

MEAD COMPUCHEM

RIC
05/06/93 6:58:00
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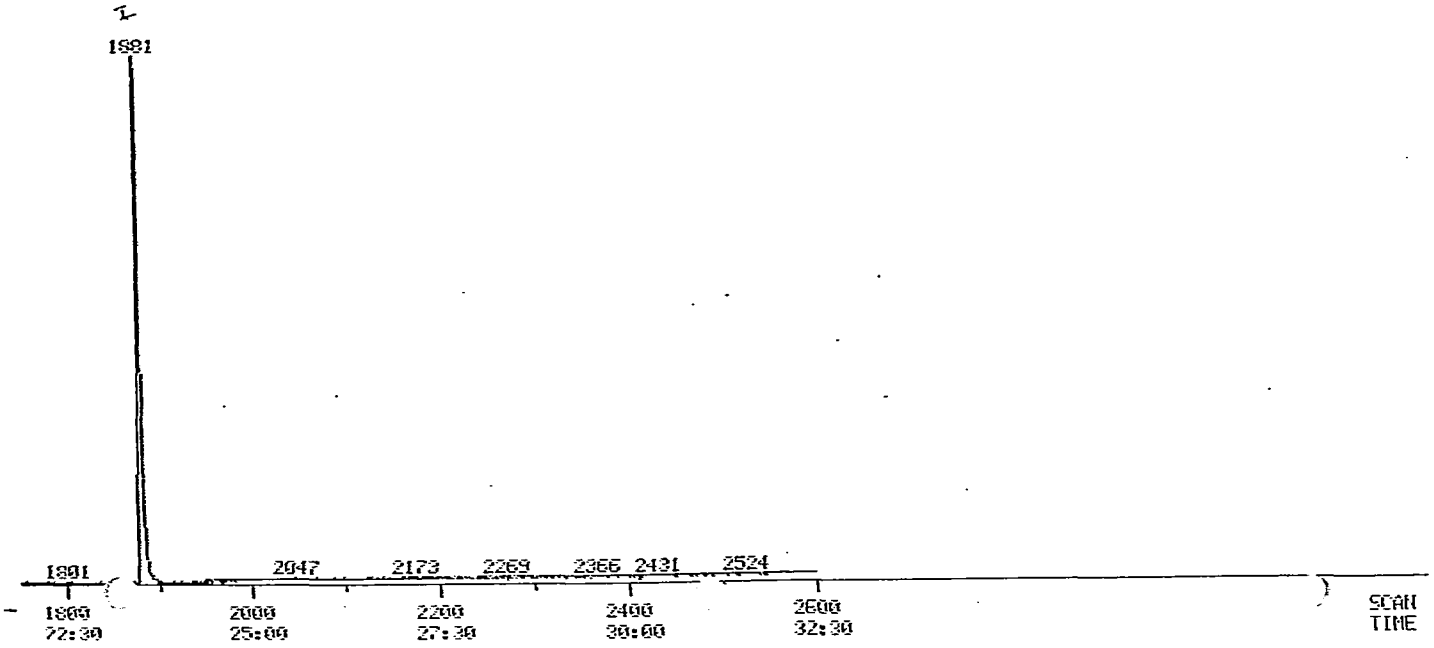
DATA: GH001495C15

SCANS 1750 TO 2600
OUT OF 250 TO 2600

55488.

019775



PROCEDURE: RK DIAGNOSTIC REPORT 5/06/83 7:35:31
DATA FILE: CH001495C15
REFERENCE: FSCC6
METHOD: FSCC6 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: FSCC6S

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
4	4	1	79	79	9	1	76	FSCC6S/FSCC6U

79 COMPOUNDS PROCESSED, 9 FOUND

< COMPOUND ><			---------- SEARCH ----------					>< SAT ><		------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	F1	1	-613	615	616	1	1	958	.	97	616	.	1
2	F2	1	-856	858	857	-1	1	998	.	136	857	.	1
3	F3	1	-1415	1416	1416	.	1	994	.	188	1416	.	1
4	F4	1	-1881	1881	1881	.	1	995	.	240	1881	.	1
5	F1	2	-291	293	.	.	.	.	.	74	.	.	.
6	F1	3	-614	616	.	.	.	.	.	94	.	.	.
7	F1	4	-611	613	.	.	.	.	.	93	.	.	.
8	F1	5	-622	624	.	.	.	.	.	93	.	.	.
9	F1	6	-625	627	.	.	.	.	.	128	.	.	.
10	F1	7	-645	646	.	.	.	.	.	146	.	.	.
11	F1	8	-654	655	.	.	.	.	.	146	.	.	.
12	F1	9	-682	683	.	.	.	.	.	146	.	.	.
13	F1	10	-681	682	.	.	.	.	.	108	.	.	.
14	F1	11	-706	707	.	.	.	.	.	121	.	.	.
15	F1	12	-704	705	.	.	.	.	.	108	.	.	.
16	F1	13	-729	730	.	.	.	.	.	117	.	.	.
17	F1	14	-727	728	.	.	.	.	.	108	.	.	.
18	F1	15	-476	478	478	.	1	984	.	112	478	.	1
19	F1	16	-617	619	.	.	.	.	.	184	.	.	.
20	F1	17	-744	745	745	.	1	994	.	82	745	.	1
21	F1	18	-781	782	782	.	1	996	.	334	782	.	1
22	F1	19	-586	588	587	-1	1	999	.	111	587	.	1
23	F1	20	-1048	1049	1048	-1	1	996	.	172	1048	.	1
24	F2	2	-728	729	.	.	.	.	.	130	.	.	.
25	F2	3	-747	748	.	.	.	.	.	123	.	.	.
26	F2	4	-787	788	.	.	.	.	.	82	.	.	.
27	F2	5	-799	800	.	.	.	.	.	139	.	.	.
28	F2	6	-812	813	.	.	.	.	.	122	.	.	.
29	F2	7	-828	829	.	.	.	.	.	93	.	.	.
30	F2	8	-839	840	.	.	.	.	.	162	.	.	.
31	F2	9	-851	852	.	.	.	.	.	180	.	.	.
32	F2	10	-860	861	.	.	.	.	.	127	.	.	.
33	F2	11	-849	850	.	.	.	.	.	105	.	.	.
34	F2	12	-893	894	.	.	.	.	.	225	.	.	.
35	F2	13	-964	965	.	.	.	.	.	107	.	.	.
36	F2	14	-978	979	.	.	.	.	.	115	.	.	.
37	F2	15	-1018	1019	.	.	.	.	.	227	.	.	.
38	F2	16	-1039	1040	.	.	.	.	.	196	.	.	.
39	F2	17	-1061	1062	.	.	.	.	.	162	.	.	.
40	F2	18	-1133	1134	.	.	.	.	.	152	.	.	.
41	F2	19	-1129	1130	.	.	.	.	.	163	.	.	.
42	F2	20	-860	861	.	.	.	.	.	128	.	.	.
43	F2	21	-1140	1141	.	.	.	.	.	165	.	.	.
44	F2	22	-1206	1207	.	.	.	.	.	165	.	.	.
45	F2	23	-1167	1168	.	.	.	.	.	138	.	.	.
46	F2	24	-1090	1091	.	.	.	.	.	138	.	.	.
47	F2	25	-1193	1194	.	.	.	.	.	168	.	.	.
48	F2	26	-1278	1279	.	.	.	.	.	138	.	.	.

019776

52	F3	4	-1193	1194	.	.	.	.	.	.	137	.	.	.	.	.
53	F3	5	-1253	1254	.	.	.	.	.	.	166	.	.	.	.	.
54	F3	6	-1258	1259	.	.	.	.	.	.	204	.	.	.	.	.
55	F3	7	-1253	1254	.	.	.	.	.	.	149	.	.	.	.	.
56	F3	8	-1276	1277	.	.	.	.	.	.	198	.	.	.	.	.
57	F3	9	-1281	1282	.	.	.	.	.	.	169	.	.	.	.	.
58	F3	10	-1341	1342	.	.	.	.	.	.	248	.	.	.	.	.
59	F3	11	-1363	1364	.	.	.	.	.	.	284	.	.	.	.	.
60	F3	12	-1419	1419	.	.	.	.	.	.	178	.	.	.	.	.
61	F3	13	-1427	1427	.	.	.	.	.	.	178	.	.	.	.	.
62	F3	14	-1628	1628	.	.	.	.	.	.	202	.	.	.	.	.
63	F3	15	-1666	1665	.	.	.	.	.	.	202	.	.	.	.	.
64	F3	16	-1285	1286	.	.	.	.	.	.	77	.	.	.	.	.
65	F3	17	-1538	1538	.	.	.	.	.	.	149	1540	.	.	1	.
66	F3	18	-1398	1398	.	.	.	.	.	.	266	.	.	.	.	.
67	F4	2	-1878	1878	.	.	.	.	.	.	228	.	.	.	.	.
68	F4	3	-1885	1885	.	.	.	.	.	.	228	.	.	.	.	.
69	F4	4	-1883	1883	.	.	.	.	.	.	252	.	.	.	.	.
70	F4	5	-1798	1798	.	.	.	.	.	.	149	.	.	.	.	.
71	F4	6	-1905	1905	.	.	.	.	.	.	149	.	.	.	.	.
72	F4	7	-2006	2006	.	.	.	.	.	.	149	.	.	.	.	.
73	F4	8	-1857	1857	.	.	.	.	.	.	184	.	.	.	.	.
74	F4	9	-2124	2124	.	.	.	.	.	.	252	.	.	.	.	.
75	F4	10	-2417	2416	.	.	.	.	.	.	276	.	.	.	.	.
76	F4	11	-2418	2417	.	.	.	.	.	.	279	.	.	.	.	.
77	F4	12	-2492	2491	.	.	.	.	.	.	276	.	.	.	.	.
78	F4	13	-2062	2062	.	.	.	.	.	.	252	.	.	.	.	.
79	F4	14	-2067	2067	.	.	.	.	.	.	252	.	.	.	.	.

019777

QUANTITATION REPORT FILE: GH001495C15

DATA: GH001495C15.TI
05/06/83 6:58:00
SAMPLE: 1UL #1495 +(8699 IS) ON #15
SUBMITTED BY: #15 ANALYST: 659

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LINEAR FIT TO WHOLE .RL

NO	NAME
1	*D3-PHENOL (INTERNAL STANDARD) (624)
2	N-NITROSODIMETHYLAMINE (441)
3	PHENOL (610)
4	ANILINE (473)
5	BIS(2-CHLOROETHYL)ETHER (411)
6	2-CHLOROPHENOL (601)
7	1,3-DICHLOROBENZENE (421)
8	1,4-DICHLOROBENZENE (422)
9	1,2-DICHLOROBENZENE (420)
10	BENZYL ALCOHOL (474)
11	BIS(2-CHLOROISOPROPYL)ETHER (412)
12	2-METHYLPHENOL (620)
13	HEXACHLOROETHANE (436)
14	4-METHYLPHENOL (622)
15	2-FLUOROPHENOL (SURROGATE) (619)
16	PENTAFLUOROPHENOL (SURROGATE) (623)
17	D5-NITROBENZENE (SURROGATE) (447)
18	DECAFLUOROBIPHENYL (SURROGATE) (470)
19	2-FLUOROANILINE (SURROGATE) (472)
20	2-FLUOROBIPHENYL (SURROGATE) (448)
21	*D8-NAPHTHALENE (INTERNAL STANDARD) (460)
22	N-NITROSO-DI-N-PROPYLAMINE (442)
23	NITROBENZENE (440)
24	ISOPHORONE (438)
25	2-NITROPHENOL (606)
26	2,4-DIMETHYLPHENOL (603)
27	BIS(2-CHLOROETHOXY)METHANE (410)
28	2,4-DICHLOROPHENOL (602)
29	1,2,4-TRICHLOROBENZENE (446)
30	4-CHLOROANILINE (475)
31	BENZOIC ACID (625)
32	HEXACHLOROBUTADIENE (434)
33	P-CHLORO-M-CRESOL (608)
34	2-METHYLNAPHTHALENE (477)
35	HEXACHLOROCYCLOPENTADIENE (435)
36	2,4,6-TRICHLOROPHENOL (611)
37	2-CHLORONAPHTHALENE (416)
38	ACENAPHTHYLENE (402)
39	DIMETHYLPHTHALATE (425)
40	NAPHTHALENE (439)
41	2,6-DINITROTOLUENE (428)
42	2,4-DINITROTOLUENE (427)
43	3-NITROANILINE(479)
44	2-NITROANILINE(478)
45	DIBENZOFURAN (476)
46	4-NITROANILINE(480)

019778

NO	NAME
47	2,4,5-TRICHLOROPHENOL (626)
48	*D10-PHENANTHRENE (INTERNAL STANDARD) (467)
49	ACENAPHTHENE (401)
50	2,4-DINITROPHENOL (605)
51	4-NITROPHENOL (607)
52	FLUORENE (432)
53	4-CHLOROPHENYL PHENYL ETHER (417)
54	DIETHYLPHTHALATE (424)
55	4,6-DINITRO-O-CRESOL (604)
56	DIPHENYLAMINE (N-NITROSO) (443)
57	4-BROMOPHENYL PHENYL ETHER (414)
58	HEXACHLOROBENZENE (433)
59	PHENANTHRENE (444)
60	ANTHRACENE (403)
61	FLUORANTHENE (431)
62	PYRENE (445)
63	1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (430)
64	DI-N-BUTYLPHTHALATE (426)
65	PENTACHLOROPHENOL (609)
66	*D12-CHRYSENE (INTERNAL STANDARD) (459)
67	BENZO(A)ANTHRACENE (405)
68	CHRYSENE (418)
69	3,3'-DICHLOROBENZIDINE (423)
70	BUTYLBENZYLPHTHALATE (415)
71	BIS(2-ETHYLHEXYL)PHTHALATE (413)
72	DI-N-OCTYLPHTHALATE (429)
73	BENZIDINE (404)
74	BENZO(A)PYRENE (406)
75	INDENO(1,2,3-C,D)PYRENE (#437)
76	DIBENZO(A,H)ANTHRACENE (419)
77	BENZO(G,H,I)PERYLENE (408)
78	BENZO(B)FLUORANTHENE (407)
79	BENZO(K)FLUORANTHENE (409)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

019773

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	97	616	7:42	1	1.000	A BB	12321.	20.000 NG	6.35 O
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	112	478	5:58	1	0.776	A BV	8944.	23.293 NG	7.40
16	NOT FOUND								
17	82	745	9:19	1	1.209	A BV	24132.	43.515 NG	13.82
18	334	782	9:46	1	1.269	A BB	18001.	46.241 NG	14.69
19	111	587	7:20	1	0.953	A BV	30586.	43.704 NG	13.88
20	172	1048	13:06	1	1.701	A BV	55337.	58.042 NG	18.44
21	136	857	10.43	21	1.000	A BV	41033.	20.000 NG	6.35 O
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	188	1416	17:42	48	1.000	A BV	40295.	20.000 NG	6.35 O
49	NOT FOUND								
50	NOT FOUND								
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								

019780

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	NOT FOUND									
58	NOT FOUND									
59	NOT FOUND									
60	NOT FOUND									
61	NOT FOUND									
62	NOT FOUND									
63	NOT FOUND									
64	149	1540	19:15	48	1.088	A BB	1763.	0.721	NC	0.23
65	NOT FOUND									
66	240	1881	23:31	66	1.000	A BB	40889.	40.000	NC	12.71
67	NOT FOUND									
68	NOT FOUND									
69	NOT FOUND									
70	NOT FOUND									
71	NOT FOUND									
72	NOT FOUND									
73	NOT FOUND									
74	NOT FOUND									
75	NOT FOUND									
76	NOT FOUND									
77	NOT FOUND									
78	NOT FOUND									
79	NOT FOUND									

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	7:40	1.00	1.000	1.00	20.00	20.00	1.000	1.000	1.00
2	3:38		0.475			50.00		0.583	
3	7:40		1.002			50.00		1.107	
4	7:38		0.997			50.00		0.989	
5	7:46		1.015			50.00		1.010	
6	7:49		1.020			50.00		0.813	
7	8:04		1.052			50.00		0.910	
8	8:10		1.067			50.00		1.012	
9	8:31		1.113			50.00		0.841	
10	8:31		1.111			50.00		0.446	
11	8:49		1.152			50.00		0.223	
12	8:48		1.148			50.00		0.711	
13	9:07		1.189			50.00		0.354	
14	9:05		1.186			50.00		0.654	
15	5:57	1.00	0.777	1.00	23.29	50.00	0.290	0.623	0.47
16	7:43		1.007			50.00		0.289	
17	9:18	1.00	1.214	1.00	43.51	50.00	0.783	0.900	0.87
18	9:46	1.00	1.274	1.00	46.24	50.00	0.584	0.632	0.92
19	7:19	1.00	0.956	1.00	43.70	50.00	0.993	1.136	0.87
20	13:06	1.00	1.710	1.00	58.04	50.00	1.797	1.548	1.16
21	10:42	1.00	1.000	1.00	20.00	20.00	1.000	1.000	1.00
22	9:06		0.850			50.00		0.058	
23	9:20		0.873			50.00		0.179	
24	9:50		0.919			50.00		0.817	
25	9:59		0.933			50.00		0.169	
26	10:09		0.949			50.00		0.327	
27	10:21		0.967			50.00		0.430	
28	10:29		0.980			50.00		0.297	
29	10:38		0.994			50.00		0.338	
30	10:45		1.005			250.00		0.030	
31	10:37		0.992			250.00		0.087	

019781

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
32	11:10		1.043			50.00		0.179	
33	12:03		1.126			50.00		0.375	
34	12:13		1.143			50.00		0.236	
35	12:43		1.189			50.00		0.092	
36	12:59		1.214			50.00		1.002	
37	13:16		1.239			50.00		0.688	
38	14:10		1.324			50.00		0.944	
39	14:07		1.319			50.00		0.823	
40	10:45		1.005			50.00		1.134	
41	14:15		1.332			50.00		0.164	
42	15:04		1.409			50.00		0.231	
43	14:35		1.363			250.00		0.006	
44	13:37		1.273			250.00		0.216	
45	14:55		1.394			50.00		0.980	
46	15:58		1.493			250.00		0.031	
47	12:59		1.214			250.00		0.200	
48	17:41	1.00	1.000	1.00	20.00	20.00	1.000	1.000	1.00
49	14:34		0.823			50.00		0.653	
50	14:45		0.834			250.00		0.034	
51	14:55		0.843			125.00		0.157	
52	15:40		0.886			50.00		0.715	
53	15:43		0.889			50.00		0.298	
54	15:40		0.886			50.00		0.856	
55	15:57		0.902			250.00		0.072	
56	16:01		0.905			50.00		0.412	
57	16:46		0.948			50.00		0.185	
58	17:02		0.963			50.00		0.213	
59	17:44		1.003			50.00		1.138	
60	17:50		1.008			50.00		0.979	
61	20:21		1.151			50.00		1.103	
62	20:49		1.177			50.00		1.104	
63	16:04		0.908			50.00		1.189	
64	19:13	1.00	1.087	1.00	0.72	50.00	0.019	1.352	0.01
65	17:28		0.988			50.00		0.063	
66	23:31	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
67	23:28		0.998			50.00		1.367	
68	23:34		1.002			50.00		1.186	
69	23:32		1.001			50.00		0.054	
70	22:28		0.956			50.00		0.901	
71	23:49		1.013			50.00		1.351	
72	25:04		1.066			50.00		2.337	
73	23:13		0.890			410.99		0.002	
74	26:33		1.129			50.00		0.987	
75	30:13		1.285			50.00		0.117	
76	30:13		1.285			50.00		0.612	
77	31:09		1.325			50.00		0.638	
78	25:46		1.096			50.00		1.143	
79	25:50		1.099			50.00		0.998	

019782

IDENTIFIER SEMI-VOLATILES -- LOW LEVEL LIQUID

COUNTER	COMPOUND NUMBER	COMPOUNDS	QUANT.REPORT VALUE	x	CORRECTION FACTOR	=	RESULT	DETECTION LIMIT (ug/l)
2	441	N-NITROSODIMETHYLAMINE					Bac	20
	610	PHENOL						20
4	473	ANILINE						20
5	411	BIS(2-CHLOROETHYL)ETHER						20
6	601	2-CHLOROPHENOL						20
7	421	1,3-DICHLOROBENZENE						20
8	422	1,4-DICHLOROBENZENE						20
9	420	1,2-DICHLOROBENZENE						20
10	474	BENZYL ALCOHOL						40
11	412	BIS(2-CHLOROISOPROPYL)ETHER.						40
12	620	2-METHYLPHENOL						20
13	436	HEXACHLOROETHANE						20
14	622	4-METHYLPHENOL						20
22	442	N-NITROSO-DI-N-PROPYLAMINE .						40
23	440	NITROBENZENE						20
24	438	ISOPHORONE						20
25	606	2-NITROPHENOL						40
26	603	2,4-DIMETHYLPHENOL						20
[illegible]	410	BIS(2-CHLOROETHOXY)METHANE..						40
28	602	2,4-DICHLOROPHENOL						20
29	446	1,2,4-TRICHLOROBENZENE						20
30	475	4-CHLOROANILINE						100
31	625	BENZOIC ACID						200
32	434	HEXACHLOROBUTADIENE						20
33	608	P-CHLORO-M-CRESOL						40
34	477	2-METHYLNAPTHALENE						40
35	435	HEXACHLOROCYCLOPENTADIENE ..						20
36	611	2,4,6-TRICHLOROPHENOL.....						20
37	416	2-CHLORONAPHTHALENE						20
38	402	ACENAPHTHYLENE						20
39	425	DIMETHYLPHTHALATE						20
40	439	NAPHTHALENE						20
41	428	2,6-DINITROTOLUENE						40
42	427	2,4-DINITROTOLUENE						40
43	478	2-NITROANILINE						200
4[illegible]	480	3-NITROANILINE						200
45	476	DIBENZOFURAN						20

PLEASE COMPLETE CORRECTION FACTOR CALCULATIONS ON SECOND SHEET OF THE COMPOUND LIST!!

019783

COMPOUND LIST NO. _____

COMPUCHEM NO. _____ DATE _____

IDENTIFIER SEMI-VOLATILES

LOW LEVEL LIQUID

COUNTER	COMPOUND NUMB	COMPOUNDS	QUANT.REPORT VALUE	x	CORRECTION FACTOR	=	RESULT	DETECTION LIMIT (ug/l)
46	479	4-NITROANILINE					BDL	200
47	626	2,4,5-TRICHLOROPHENOL						200
49	401	ACENAPHTHENE						20
50	605	2,4-DINITROPHENOL						100
51	607	4-NITROPHENOL						200
52	432	FLUORENE						20
53	417	4-CHLOROPHENYL PHENYL ETHER						20
54	424	DIETHYLPHTHALATE						20
55	604	4,6-DINITRO-O-CRESOL						40
56	443	DIPHENYLAMINE (N-NITROSO)						20
57	414	4-BROMOPHENYL PHENYL ETHER						20
58	433	HEXACHLOROBENZENE						20
59	444	PHENANTHRENE						20
60	403	ANTHRACENE						20
61	431	FLUORANTHENE						20
62	445	PYRENE						20
63	430	1,2-DIPHENYLHYDRAZINE (AZOBENZENE)						40
64	426	DI-N-BUTYLPHTHALATE						20
65	609	PENTACHLOROPHENOL						40
67	405	BENZO(A)ANTHRACENE						20
68	418	CHRYSENE						20
69	423	3,3'-DICHLOROBENZIDINE						40
70	415	BUTYLBENZYLPHTHALATE						20
71	413	BIS(2-ETHYLHEXYL)PHTHALATE						20
72	429	DI-N-OCTYLPHTHALATE						20
73	404	BENZIDINE						80
74	406	BENZO(A)PYRENE						40
75	437	INDENO(1,2,3-C,D)PYRENE						40
76	419	DIBENZO(A,H)ANTHRACENE						40
77	408	BENZO(G,H,I)PERYLENE						40
78	407	BENZO(B)FLUORANTHENE						40
79	409	BENZO(K)FLUORANTHENE						40

Instrument Code 239 - Correction Factor Calculation

$$\frac{\text{Total extraction volume (ml)}}{\text{0.5ml for Ac, 1.0ml for B/N}} \times \frac{1000}{\text{Volume of Sample Used (ml)}} \times \text{Dilution Factor} \times 2 = \text{Conversion Factor}$$

$$\frac{\text{(ml)}}{0.5 \text{ or } 1.0 \text{ (ml)}} \times \frac{1000}{\text{(ml)}} \times \_\_\_\_ \times 2 = \underline{2}$$

(circle one)

019784

CC2414

30

MEAD COMPUCHEM

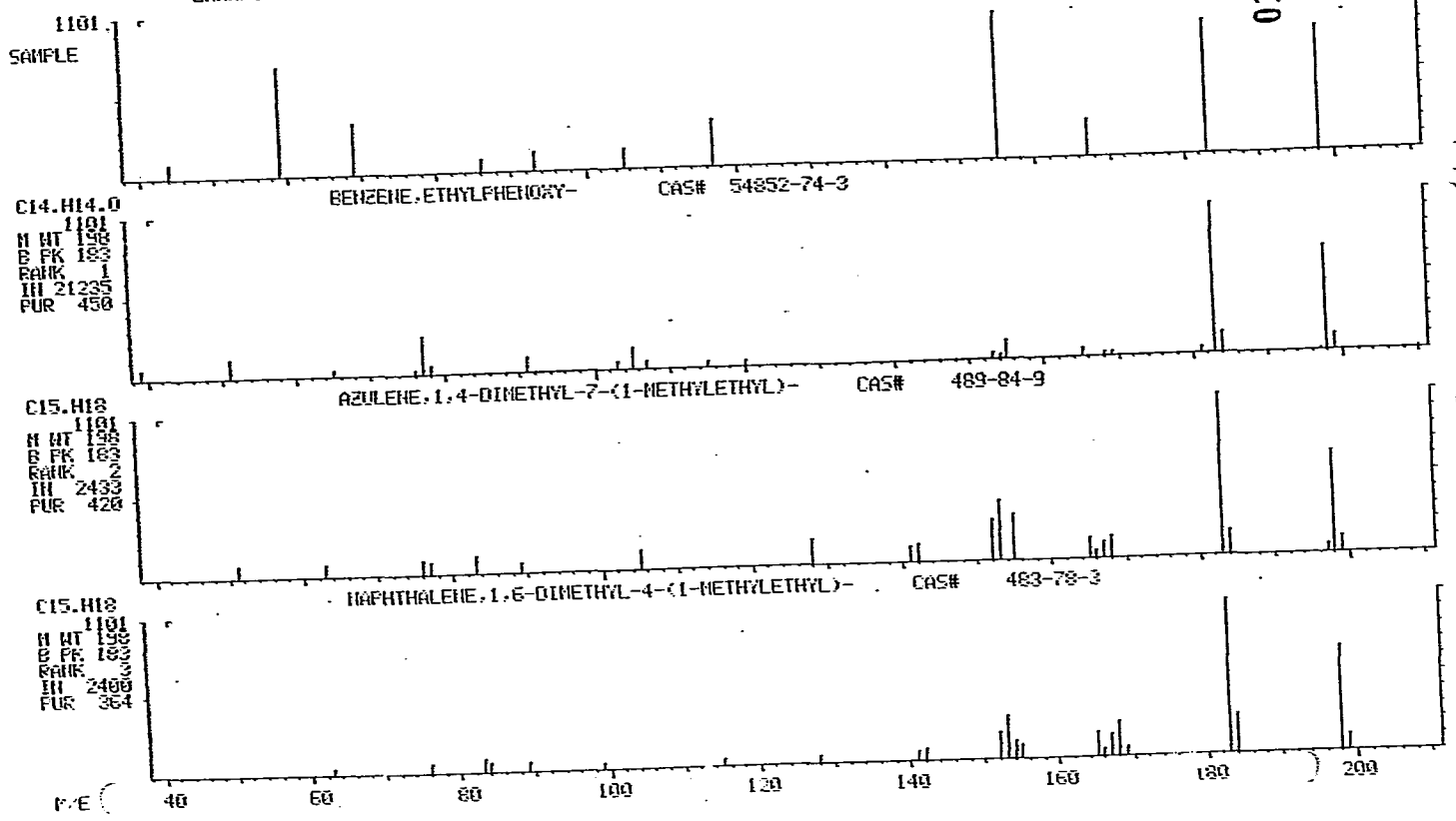
0 FSCC

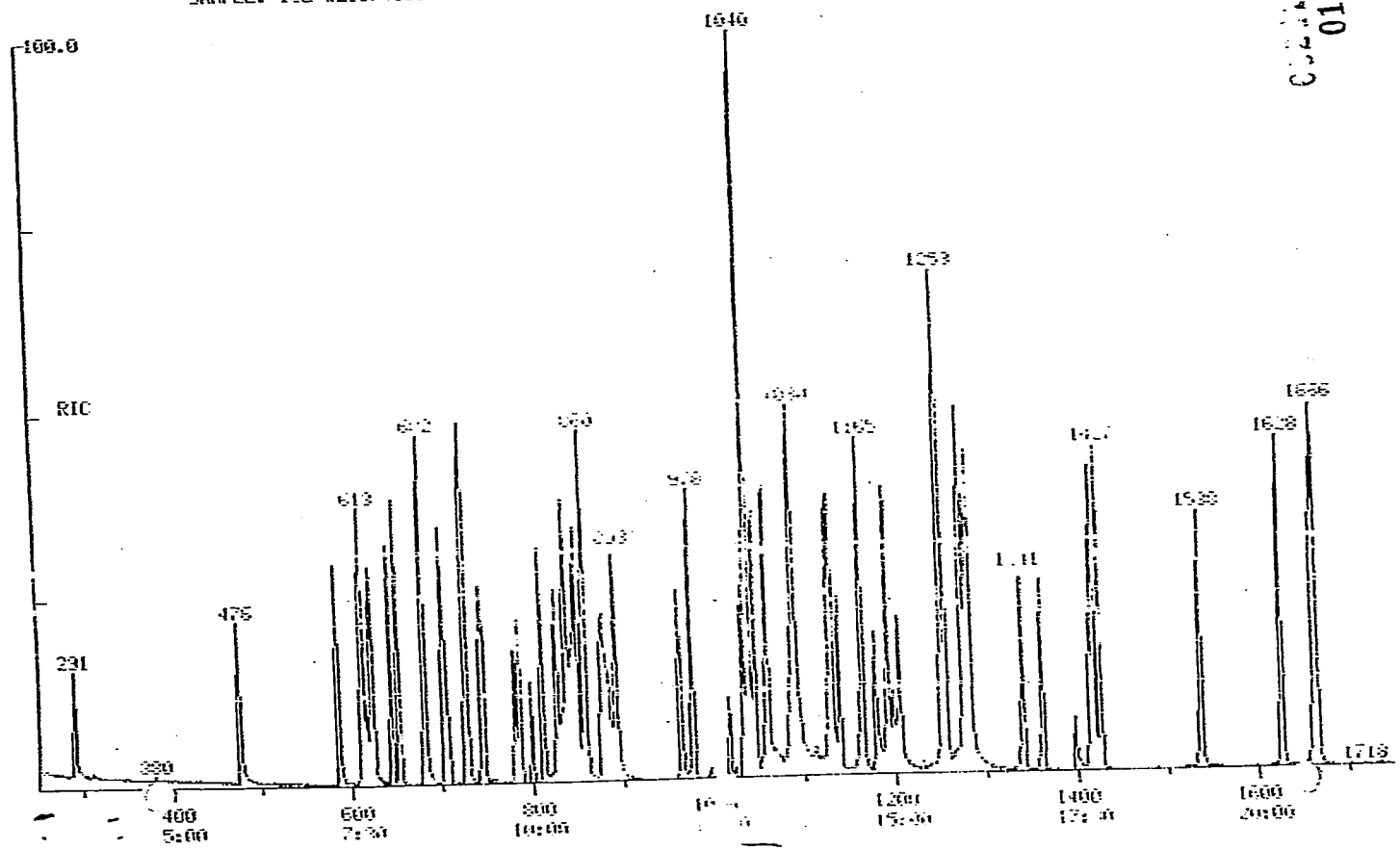
DATA: GH001495C15 # 651

BASE M/E: 155
RIC: 8303.

LIBRARY SEARCH
05/06/83 6:58:00 + 8:08
SAMPLE: IUL #1495 +(8699 IS) ON #15
ENHANCED (S 15B 2N 0T)

019788




HEWL COMPUCHEM
DATA: H0S3050C15
SCANS 250 TO 1750
OUT OF 250 TO 2000
RIC
05-06/83 5:13:00
SAMPLE: 1UL #2337(8696) ON #15
100.0
RIC
1040
1053
1165
1686
1628
1538
1111
613
475
231
1718
400
5:00
600
7:30
800
10:00
1200
15:00
1400
17:30
1600
20:00

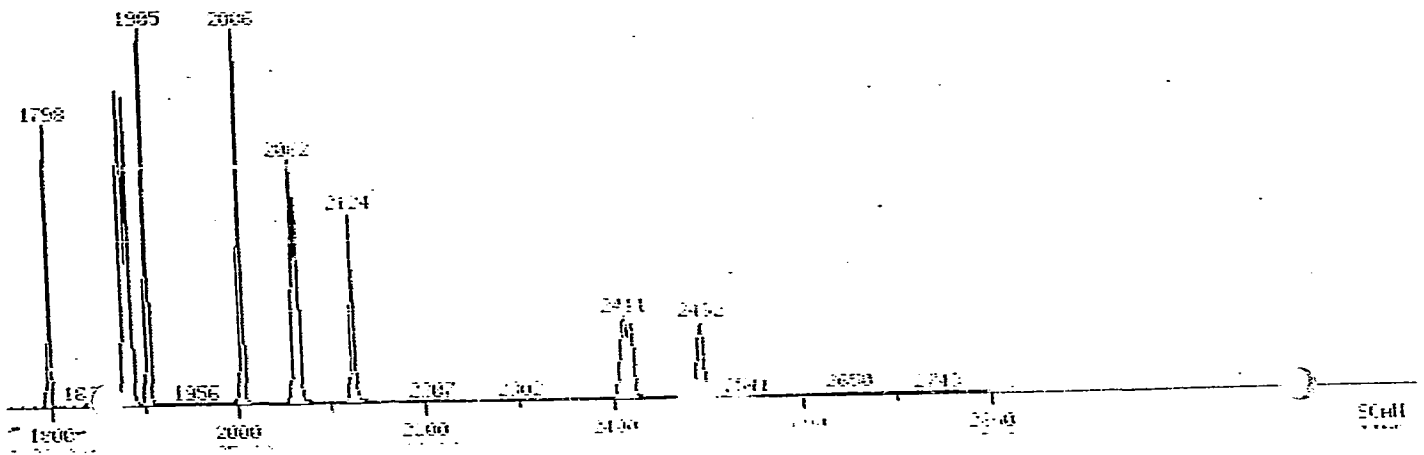
019786

MEAD COMPUCHEM

DATA: HG83U508C15

SCANS 1750 TO 2800
OUT OF 250 TO 2800

RIC
05/06/83 5:12:00
SAMPLE: 10L #2337(8696) OH #15



019787

GC/MS PERFORMANCE STANDARD - Decafluorotriphenylphosphine
Date 5-6-83 Run No. [illegible] Analyst 659

m/e	Ion Abundance Criteria	Spec #	Spec #	Spec #
51	30-60% of mass 198	52.44		
68	less than 2% of mass 69	—		
70	less than 2% of mass 69	—		
127	40-60% of mass 198	40.84		
197	less than 1% of mass 198	—		
198	base peak, 100% relative abundance	100.00		
199	5-9% of mass 198	6.48		
275	10-30% of mass 198	17.60		
365	1% of mass 198	1.61		
441	less than mass 443	6.54		
442	greater than 40% of mass 198	52.20		
443	17-23% of mass 442	20		

Comments:

Pentachlorophenol Response Factor = $\frac{20}{\text{Area 188}} \times \frac{\text{Area 266}}{50} = 0.07$

Benzidine Detectable 0.50ng Level [X] yes [ ] no

Area (counts) 20ng d10 anthracene = 26236

Column description

Temperature Isothermal Program

Example B7

019788

MEAD COMPUCHEM
DATA: DH930508C1F # 624 BASE M/E: 198
RIC: 2473a

LIST
[illegible] 4 41 [illegible] 7:48
[illegible]LE 1UL #704[illegible] ON #15

[illegible] 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 3364.
[illegible] # 0 MAXIMA

MASS	% RA	MASS	% RA	MASS	% RA
43	0.59	143	0.86	265	0.62
44	5.80	147	1.25	273	1.13
45	0.77	148	1.61	274	5.05
49	1.90	15[illegible]	0.89	275	17.60
50	13.35	155	1.34	276	2.44
51	52.44	156	1.93	277	1.58
52	3.12	161	1.31	246	4.10
[illegible]	0.68	[illegible]	0.80	323	1.6[illegible]
[illegible]	3.14	[illegible]	0.71	3[illegible]4	1.01
[illegible]	4.22	[illegible]	2.2[illegible]	[illegible]54	0.58
[illegible]	0.74	[illegible]	2.33	[illegible]	1.61
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.10
[illegible]	1.3[illegible]	[illegible]	1.[illegible]	[illegible]	0.6[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	4[illegible]1	6.5[illegible]
[illegible]	[illegible]	[illegible]	1.31	[illegible]	52.20
[illegible]	[illegible]	[illegible]	2.3[illegible]	[illegible]	10.70
[illegible]	2.1[illegible]	[illegible]	2.0[illegible]		
[illegible]	[illegible]	[illegible]	0.77		
[illegible]	[illegible]	[illegible]	1.4[illegible]		
[illegible]	2.21	[illegible]	1.67		
[illegible]	2.3[illegible]	[illegible]	3.07		
[illegible]	1.9[illegible]	[illegible]	1.31		
[illegible]	1.07	[illegible]	0.8[illegible]		
[illegible]	1.[illegible]	[illegible]	0.6[illegible]		
[illegible]	1.07	[illegible]	2.71		
[illegible]	0.80	[illegible]	100.00		
6[illegible]	1.07	[illegible]	0.4[illegible]		
8[illegible]	0.66	[illegible]	0.77		
[illegible]	0.89	[illegible]	0.68		
[illegible]	4.64	[illegible]	2.68		
[illegible]	2.82	[illegible]	4.13		
[illegible]	3.27	[illegible]	1.[illegible]2		
10[illegible]	1.64	207	2.73		
[illegible]	0.71	208	0.65		
[illegible]	1.04	211	1.07		
[illegible]	11.98	217	3.86		
108	1.92	218	0.65		
110	29.01	221	6.09		
111	4.46	223	0.95		
117	6.63	224	9.99		
[illegible]	0.77	225	2.50		
[illegible]	0.86	227	3.57		
123	1.10	228	0.62		
127	40.84	229	0.83		
129	3.09	244	7.73		
134	15.76	245	1.10		
[illegible]	1.72	246	1.22		
[illegible]	2.23	255	35.73		
136	0.59	256	6.03		
137	0.74	257	0.59		
141	1.58	258	1.58		

FSCC

019783-

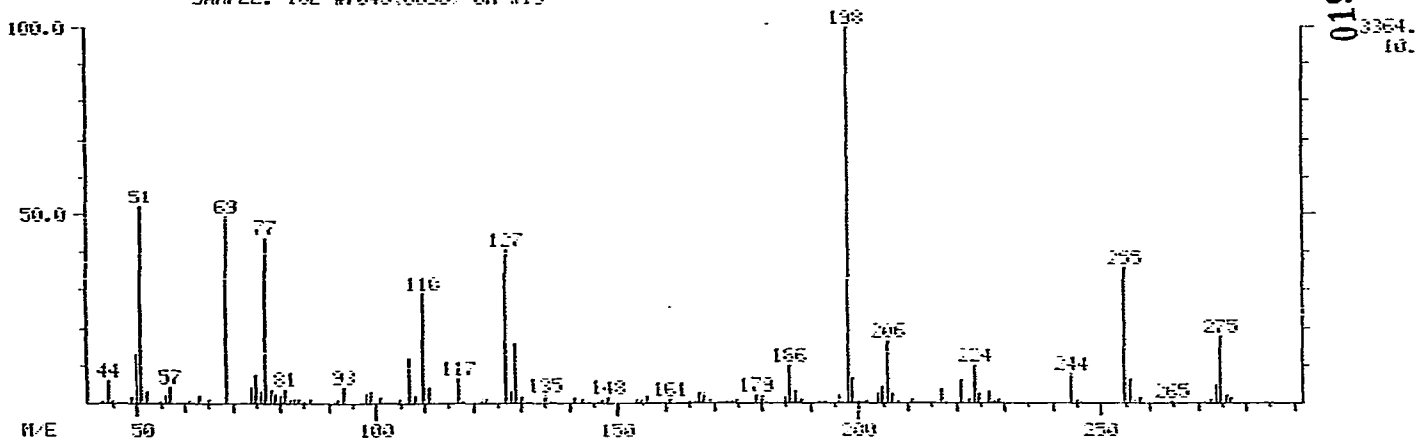
MEAD COMPUCHEM

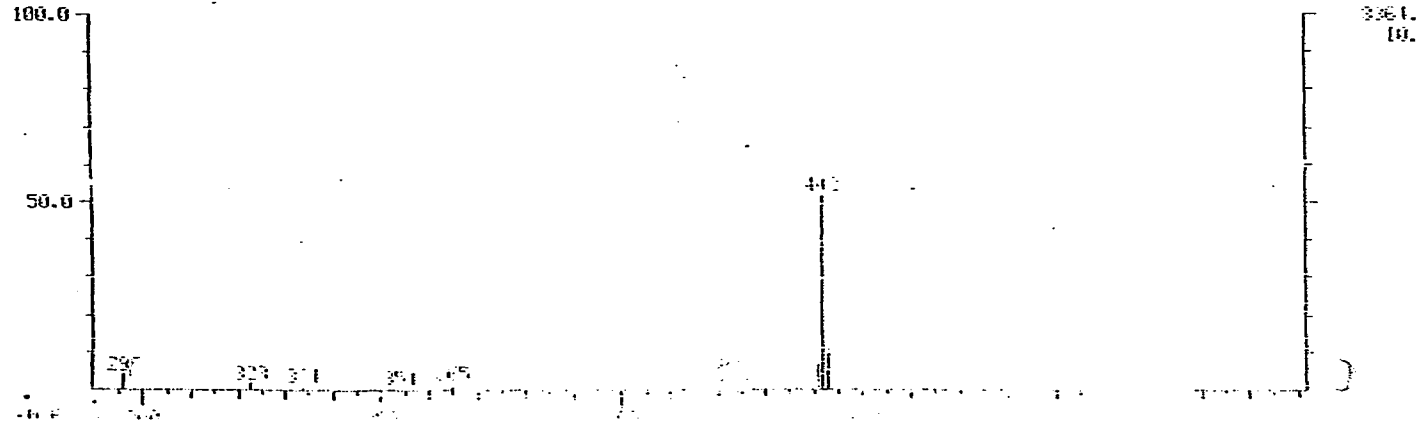
MASS SPECTRUM
05/06/83 4:41:00 + 7:48
SAMPLE: IUL #7045(8693) OH #15

Data: DH830500015 #624

BASE M/E: 138
RIC: 24736.

019790





17-MAY-93

Mead ComputChem
INITIAL CALIBRATION DATA REPORT with AVERAGE RF

Time: 9:34

Research Triangle Park
Instrument: 15
Library: 21
Version: 26
Fraction: Capillary GC/MS

4495

Compounds		Lab ID: HG000020415 Std ID: 2336 (LOW) Conc	Area	Lab ID: HG830505415 Std ID: 2337 (MED) Conc	Area	Lab ID: HH830505415 Std ID: 2338 (HIGH) Conc	Area
D-3-PHENOL	(IS)	20.00	16818	20.00	22191	20.00	21056
D-8-NAPHTHALENE	(IS)	20.00	37146	20.00	44835	20.00	43008
D-10-PHENANTHRENE	(IS)	20.00	35548	20.00	43941	20.00	38530
D-12-CHRYSENE	(IS)	40.00	43516	40.00	60436	40.00	53824

Compounds	Conc	RF	RRT	Conc	RF	RRT	Conc	RF	RRT	Average RF
N-NITROSODIMETHYLAMINE	20.00	.496	.477	50.00	.619	.463	80.00	.669	.463	.595
PHENOL	20.00	1.094	1.000	50.00	1.118	1.000	80.00	1.122	1.000	1.111
ANILINE	20.00	.623	.998	50.00	1.045	.997	80.00	1.175	.975	.948
BIS (2-CHLOROETHYL) ETHER	20.00	1.113	1.015	50.00	.996	1.016	80.00	.974	1.015	1.028
2-CHLOROPHENOL	20.00	.792	1.019	50.00	.812	1.020	80.00	.816	1.020	.807
1,3-DICHLOROBENZENE	20.00	.913	1.052	50.00	.865	1.052	80.00	.865	1.052	.881
1,4-DICHLOROBENZENE	20.00	1.029	1.065	50.00	.950	1.067	80.00	.937	1.067	.972
1,2-DICHLOROBENZENE	20.00	.867	1.112	50.00	.812	1.114	80.00	.751	1.112	.827
BENZYL ALCOHOL	20.00	.407	1.110	50.00	.498	1.111	80.00	.493	1.111	.463
BIS (2-CHLOROISOPROPYL) ETHER	20.00	.217	1.149	50.00	.213	1.152	80.00	.213	1.151	.214
O-CRESOL	20.00	.719	1.146	50.00	.734	1.148	80.00	.707	1.147	.720
HEXACHLOROETHANE	20.00	.369	1.188	50.00	.337	1.191	80.00	.330	1.139	.345
P-CRESOL	20.00	.639	1.135	50.00	.661	1.186	80.00	.649	1.186	.650
2-FLUOROPHENOL	20.00	.611	.778	50.00	.795	.775	80.00	.830	.774	.745
PENTAFLUOROPHENOL	20.00	.121	1.013	50.00	.316	1.005	80.00	.347	1.003	.261
O-5-NITROBENZENE	20.00	.899	1.213	50.00	.907	1.215	80.00	.940	1.213	.915
DECAFLUOROBIPHENYL	20.00	.653	1.273	50.00	.539	1.276	80.00	.632	1.274	.624
2-FLUOROANILINE	20.00	1.145	.956	50.00	1.110	.956	80.00	1.038	.956	1.115
2-FLUOROBIPHENYL	20.00	1.631	1.706	50.00	1.452	1.710	80.00	1.410	1.708	1.498
N-NITROSODI-N-PROPYLAMINE	20.00	.046	.850	50.00	.060	.851	50.00	.059	.851	.055
NITROBENZENE	20.00	.157	.873	50.00	.186	.872	80.00	.190	.872	.175
ISOPHORONE	20.00	.790	.917	50.00	.830	.918	50.00	.798	.920	.806
2-NITROPHENOL	20.00	.117	.935	50.00	.184	.933	80.00	.192	.932	.164
2,4-DIMETHYLPHENOL	20.00	.305	.949	50.00	.339	.947	80.00	.326	.948	.323
BIS (2-CHLOROETHOXY) METHANE	20.00	.400	.967	50.00	.443	.966	50.00	.426	.966	.423
2,4-DICHLOROPHENOL	20.00	.273	.980	50.00	.307	.979	50.00	.301	.979	.294
1,2,4-TRICHLOROBENZENE	20.00	.324	.994	50.00	.360	.994	80.00	.320	.993	.328
4-CHLOROANILINE	100.00	.161	1.031	250.00	.278	1.026	400.00	.308	1.026	.249
BENZOIC ACID	100.00	.189	.985	250.00	.195	.992	400.00	.213	.999	.199
HEXACHLOROBUTADIENE	20.00	.176	1.043	50.00	.180	1.043	80.00	.177	1.042	.178
P-CHLORO-M-CRESOL	20.00	.349	1.126	50.00	.380	1.125	80.00	.381	1.125	.370
2-METHYLNAPTHALENE	20.00	.239	1.142	50.00	.235	1.141	50.00	.229	1.141	.235
HEXACHLOROCYCLOPENTADIENE	20.00	.062	1.139	50.00	.103	1.188	80.00	.120	1.188	.095
2,4,6-TRICHLOROPHENOL	20.00	.171	1.207	50.00	.228	1.207	80.00	.314	1.206	.238
2-CHLORONAPHTHALENE	20.00	.677	1.239	50.00	.667	1.238	80.00	.635	1.238	.660
ACENAPHTHYLENE	20.00	1.049	1.322	50.00	.991	1.322	80.00	.963	1.322	.994
DIMETHYL PHTHALATE	20.00	.748	1.319	50.00	.793	1.319	80.00	.656	1.318	.742
NAPHTHALENE	20.00	1.159	1.093	50.00	1.118	1.006	80.00	1.065	1.093	1.117
2,6-DINITROTOLUENE	20.00	.136	1.331	50.00	.166	1.330	80.00	.161	1.331	.155
2,4-DINITROTOLUENE	20.00	.183	1.439	50.00	.243	1.408	50.00	.250	1.408	.225
5-NITROANILINE	100.00	.020	1.363	250.00	.026	1.363	400.00	.015	1.362	.020
2-NITROANIL[illegible]	100.00	.198	1.272	250.00	.229	1.273	400.00	.222	1.274	.216
DIBENZOFURA[illegible]	20.00	.929	1.393	50.00	.960	1.393	80.00	.895	1.393	.928
4-NITROANILINE	100.00	.039	1.490	250.00	.054	1.492	400.00	.038	1.494	.044
2,4,5-TRICHLOROPHENOL	100.00	.199	1.216	250.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

06

ENAPHTHENE	20.00	.642	.325	50.00	.612	.824	80.00	.642	.824	.645	
4-DINITROPHENOL	100.00	.017	.835	250.00	.039	.834	400.00	.056	.834	.037	
-NITROPHENOL	50.00	.042	.848	125.00	.259	.844	200.00	.122	.846	.141	
LUORENE	20.00	.758	.835	50.00	.674	.836	80.00	.698	.836	.717	
-CHLOROPHENYL PHENYL ETHER	20.00	.307	.849	50.00	.285	.839	80.00	.308	.888	.300	
IETHYL PHTHALATE	20.00	.867	.835	50.00	.844	.836	80.00	.743	.836	.818	
6-DINITRO-O-CRESOL	100.00	.052	.901	250.00	.078	.902	400.00	.095	.903	.075	
-NITROSODIPHENYLAMINE	20.00	.520	.935	50.00	.418	.905	80.00	.372	.905	.437	
-BROMOPHENYL PHENYL ETHER	20.00	.175	.927	50.00	.174	.948	80.00	.196	.948	.178	
-EXACHLOROBENZENE	20.00	.219	.963	50.00	.209	.963	80.00	.224	.963	.217	
ENANTHRENE	20.00	1.056	1.003	50.00	1.132	1.003	80.00	1.113	1.003	1.110	
NTHRACENE	20.00	1.038	1.008	50.00	.938	1.008	80.00	.953	1.008	.977	
LUORANTHENE	20.00	1.024	1.151	50.00	1.066	1.151	80.00	1.062	1.150	1.051	
YRENE	20.00	1.091	1.177	50.00	1.135	1.178	80.00	1.100	1.178	1.109	
2-DIPHENYLHYDRAZINE	20.00	1.242	.908	50.00	1.137	.908	80.00	1.079	.908	1.153	
I-N-BUTYL PHTHALATE	20.00	1.342	1.097	50.00	1.298	1.037	80.00	1.297	1.037	1.312	
ENTACHLOROPHENOL	20.00	.019	.991	50.00	.096	.997	80.00	.095	.997	.070	
ENZO (A) ANTHRACENE/CHRYSENE	20.00	1.230	.998	50.00	1.327	.998	80.00	1.310	.998	1.306	
HRYSENE/BENZO (A) ANTHRACENE	20.00	1.254	1.092	50.00	1.200	1.002	80.00	1.208	1.002	1.221	
3'-DICHLOROBENZIDINE	20.00	.061	1.001	50.00	.090	1.001	80.00	.054	1.001	.078	
UTYL BENZYL PHTHALATE	20.00	.872	.956	50.00	.924	.955	80.00	.915	.955	.904	
IS (2-ETHYLHEXYL) PHTHALATE	20.00	2.126	1.013	50.00	1.338	1.012	80.00	1.254	1.012	1.572	
I-N-OCTYL PHTHALATE	20.00	2.372	1.066	50.00	2.377	1.066	80.00	2.219	1.066	2.322	
ENZIDINE	60.00	.000	.030	150.00	.000	.090	240.00	.000	.000	.000	
ENZO (A) PYRENE	20.00	.898	1.130	50.00	1.014	1.129	80.00	.989	1.130	.967	
NDENO (1,2,3-CD) PYRENE	20.00	.672	1.234	50.00	.835	1.281	80.00	.774	1.233	.760	
IBENZO (A,H) ANTHRACENE	20.00	.481	1.259	50.00	.665	1.235	80.00	.640	1.236	.589	
ENZO (GHI) PERYLENE	20.00	.576	1.328	50.00	.660	1.324	80.00	.642	1.326	.626	
4-BENZOFLUORANTHENE	20.00	1.030	1.096	50.00	1.124	1.097	80.00	1.227	1.096	1.127	
ENZO (K) FLUORANTHENE	20.00	.978	1.099	50.00	2.169	1.098	80.00	.849	1.099	1.332	

2619790

7-MAY-85

Head ComputChem

INITIAL CALIBRATION DATA REPORT with RELATIVE RESPONSE

Time: 9:36

Research Triangle Park
Instrument: 15
Library: 21
Version: 26
Fraction: Capillary GC/MS

Compounds		Lab ID: HG000020415 Std ID: 2336 (LOW) Conc	Area	Lab ID: HG830595415 Std ID: 2337 (MED) Conc	Area	Lab ID: HH830595415 Std ID: 2338 (HIGH) Conc	Area
-5-PHENOL	(IS)	20.00	16818	20.00	22191	20.00	21056
-8-NAPHTHALENE	(IS)	20.00	37146	20.00	44835	20.00	43008
-10-PHENANTHRENE	(IS)	20.00	35548	20.00	43941	20.00	38500
-12-CHRYSENE	(IS)	40.00	43516	40.00	60436	40.00	53824

Compounds	Conc	RR	RRT	Conc	RR	RRT	Conc	RR	RRT	Correlation Coefficients
-NITROSODIMETHYLAMINE	20.00	.496	.477	50.00	1.547	.463	80.00	2.676	.463	1.000
HENOL	20.00	1.096	1.000	50.00	2.795	1.000	80.00	4.487	1.000	1.000
HILENE	20.00	.623	.998	50.00	2.612	.997	80.00	4.700	.995	1.000
IS (2-CHLOROETHYL) ETHER	20.00	1.113	1.015	50.00	2.490	1.016	80.00	3.594	1.015	1.000
-CHLOROPHENOL	20.00	.792	1.019	50.00	2.029	1.020	80.00	3.264	1.020	1.000
-3-DICHLOROBENZENE	20.00	.913	1.052	50.00	2.162	1.052	80.00	3.459	1.052	1.000
-4-DICHLOROBENZENE	20.00	1.029	1.065	50.00	2.376	1.067	80.00	3.747	1.067	1.000
-2-DICHLOROBENZENE	20.00	.887	1.112	50.00	2.029	1.114	80.00	3.126	1.112	1.000
ENZYL ALCOHOL	20.00	.407	1.110	50.00	1.220	1.111	80.00	1.973	1.111	1.000
IS (2-CHLOROISOPROPYL) ETHER	20.00	.217	1.149	50.00	.532	1.152	80.00	.851	1.151	1.000
-CRESOL	20.00	.719	1.146	50.00	1.835	1.148	80.00	2.826	1.147	.999
EXACHLOROETHANE	20.00	.369	1.138	50.00	.842	1.191	80.00	1.318	1.189	1.000
-CRESOL	20.00	.639	1.185	50.00	1.652	1.186	80.00	2.596	1.186	1.000
-FLUOROPHENOL	20.00	.611	.778	50.00	1.987	.775	80.00	3.320	.774	1.000
ENTAFLUOROPHENOL	20.00	.121	1.013	50.00	.789	1.005	80.00	1.386	1.003	.999
-5-NITROBENZENE	20.00	.899	1.213	50.00	2.267	1.215	80.00	3.760	1.213	1.000
ECAFLUOROBIPHENYL	20.00	.653	1.273	50.00	1.473	1.276	80.00	2.527	1.274	.997
-FLUOROANILINE	20.00	1.145	.956	50.00	2.776	.956	80.00	4.353	.956	1.000
-FLUOROBIPHENYL	20.00	1.631	1.706	50.00	3.629	1.710	80.00	5.641	1.708	1.000
-NITROSODI-N-PROPYLAMINE	20.00	.046	.850	50.00	.151	.851	80.00	.237	.851	.998
ITROBENZENE	20.00	.157	.873	50.00	.466	.872	80.00	.760	.872	1.000
OPHORONE	20.00	.799	.917	50.00	2.074	.918	80.00	3.193	.920	.999
-NITROPHENOL	20.00	.117	.935	50.00	.460	.933	80.00	.768	.932	1.000
-6-DIMETHYLPHENOL	20.00	.305	.949	50.00	.846	.947	80.00	1.306	.948	.999
IS (2-CHLOROETHOXY) METHANE	20.00	.400	.967	50.00	1.103	.966	80.00	1.705	.966	.999
-6-DICHLOROPHENOL	20.00	.273	.930	50.00	.767	.979	80.00	1.203	.979	.999
-2,4-TRICHLOROBENZENE	20.00	.326	.994	50.00	.850	.994	80.00	1.280	.993	.995
-CHLOROANILINE	100.00	.304	1.031	250.00	3.480	1.026	400.00	6.167	1.026	1.000
ENZOIC ACID	100.00	.943	.935	250.00	2.639	.992	400.00	4.267	.999	.995
EXACHLOROBUTADIENE	20.00	.176	1.043	50.00	.451	1.043	80.00	.709	1.042	1.000
-CHLORO-M-CRESOL	20.00	.347	1.126	50.00	.951	1.125	80.00	1.524	1.125	1.000
-METHYLNAPTHALENE	20.00	.239	1.142	50.00	.588	1.141	80.00	.918	1.141	1.000
EXACHLOROCYCLOPENTADIENE	20.00	.062	1.139	50.00	.257	1.158	80.00	.480	1.188	.997
-4,6-TRICHLOROPHENOL	20.00	.171	1.297	50.00	.570	1.237	80.00	1.257	1.206	.989
-CHLORONAPHTHALENE	20.00	.677	1.259	50.00	1.667	1.238	80.00	2.540	1.238	.999
CENAPHTHYLENE	20.00	1.049	1.322	50.00	2.475	1.322	80.00	3.773	1.322	1.000
IMETHYL PHTHALATE	20.00	.743	1.319	50.00	1.982	1.319	80.00	2.735	1.318	.990
APHTHALENE	20.00	1.169	1.093	50.00	2.794	1.036	80.00	4.259	1.003	1.000
-6-DINITROTOLUENE	20.00	.136	1.331	50.00	.415	1.330	80.00	.646	1.331	.995
-4-DINITROTOLUENE	20.00	.183	1.409	50.00	.609	1.408	80.00	1.001	1.405	1.000
-NITROANILINE	100.00	.101	1.363	250.00	.322	1.363	400.00	.297	1.362	.809
-NITROANILIN	100.00	.991	1.272	250.00	2.862	1.273	400.00	4.437	1.274	.999
IBENZOFURAN	20.00	.929	1.393	50.00	2.401	1.393	80.00	3.579	1.393	.995
-NITROANILINE	100.00	.196	1.490	250.00	.672	1.492	400.00	.766	1.494	.931
-4,5-TRICHLOROPHENOL										

019693

ACENAPHTHENE	20.00	.662	.823	50.00	1.580	.824	80.00	2.570	.824	1.000
2,4-DINITROPHENOL	190.00	.385	.835	250.00	.485	.836	400.00	1.124	.836	.992
4-NITROPHENOL	50.00	.104	.848	125.00	1.617	.844	200.00	1.222	.846	.713
FLUORENE	20.00	.753	.835	50.00	1.735	.836	80.00	2.793	.836	1.000
4-CHLOROPHENYL PHENYL ETHER	20.00	.307	.839	50.00	.712	.839	80.00	1.231	.888	.997
DIETHYL PHTHALATE	20.00	.367	.835	50.00	2.107	.836	80.00	2.970	.836	.995
4,6-DINITRO-O-CRESOL	100.00	.253	.901	250.00	.970	.902	400.00	1.907	.903	.997
N-NITROSODIPHENYLAMINE	20.00	.520	.905	50.00	1.045	.905	80.00	1.485	.905	.999
4-BROMOPHENYL PHENYL ETHER	20.00	.175	.967	50.00	.434	.968	80.00	.744	.968	.999
HEXACHLOROBENZENE	20.00	.219	.963	50.00	.522	.963	80.00	.597	.963	.998
PHENANTHRENE	20.00	1.086	1.003	50.00	2.831	1.003	80.00	4.451	1.003	1.000
ANTHRACENE	20.00	1.033	1.008	50.00	2.346	1.008	80.00	3.814	1.008	.999
FLUORANTHENE	20.00	1.024	1.151	50.00	2.665	1.151	80.00	4.249	1.150	1.000
PYRENE	20.00	1.091	1.177	50.00	2.837	1.178	80.00	4.402	1.178	1.000
1,2-DIPHENYLHYDRAZINE	20.00	1.242	.908	50.00	2.843	.908	80.00	4.315	.908	1.000
DI-N-BUTYL PHTHALATE	20.00	1.342	1.057	50.00	3.244	1.057	80.00	5.190	1.057	1.000
PENTACHLOROPHENOL	20.00	.019	.991	50.00	.241	.987	80.00	.380	.937	.991
BENZO (A) ANTHRACENE/CHRYSENE	20.00	.560	.998	50.00	1.659	.998	80.00	2.620	.998	1.000
CHRYSENE/BENZO (A) ANTHRACENE	20.00	.627	1.002	50.00	1.500	1.002	80.00	2.415	1.002	1.000
3,3'-DICHLOROBENZIDINE	20.00	.031	1.001	50.00	.112	1.001	80.00	.168	1.001	.996
BUTYL BENZYL PHTHALATE	20.00	.436	.956	50.00	1.155	.955	80.00	1.829	.955	1.000
BIS (2-ETHYLHEXYL) PHTHALATE	20.00	1.063	1.013	50.00	1.673	1.012	80.00	2.505	1.012	.996
DI-N-OCTYL PHTHALATE	20.00	1.186	1.066	50.00	2.971	1.066	80.00	4.437	1.066	.998
BENZIDINE	60.00	.000	.000	150.00	.000	.000	240.00	.000	.000	.000
BENZO (A) PYRENE	20.00	.669	1.130	50.00	1.268	1.129	80.00	1.975	1.130	.999
INDENO (1,2,3-CD) PYRENE	20.00	.336	1.234	50.00	1.044	1.231	80.00	1.548	1.283	.995
DIBENZO (A,H) ANTHRACENE	20.00	.240	1.239	50.00	.807	1.235	80.00	1.280	1.236	.997
BENZO (GHI) PERYLENE	20.00	.283	1.328	50.00	.825	1.324	80.00	1.284	1.326	.999
3,4-BENZOFLUORANTHENE	20.00	.515	1.096	50.00	1.405	1.097	80.00	2.453	1.096	.999
BENZO (K) FLUORANTHENE	20.00	.689	1.099	50.00	2.711	1.098	80.00	1.695	1.099	.563

019794

-MAY-85

Head CompuChem
STANDARD RESPONSE FACTOR CHECK REPORT WITH AVERAGE RF

Time: 9:55

search Triangle Park
nstrument: 15
ibrary: 21
ersion: 24
action: Capillary GC/MS

Compounds		STD ID AVERAGES Area(C)	HG830505C15 Analyst: 657 Area(CK)
-5-PHENOL	(IS)	20021	18255
-8-NAPHTHALENE	(IS)	41665	37758
-10-PHENANTHRENE	(IS)	39329	37606
-12-CHRYSENE	(IS)	52591	47919

	RF (C)	RF (CK)
-NITRO-DIMETHYLAMINE	.595	.583
ENOL	1.111	1.107
ILINE	.948	.989
IS (2-CHLOROETHYL) ETHER	1.028	1.019
-CHLOROPHENOL	.802	.815
,3-DICHLOROBENZENE	.881	.910
,4-DICHLOROBENZENE	.972	1.012
,2-DICHLOROBENZENE	.827	.341
NZYL ALCOHOL	.463	.445
IS (2-CHLOROISOPROPYL) ETHER	.214	.223
-CRESOL	.720	.711
EXACHLOROETHANE	.345	.356
-CRESOL	.650	.654
-FLUOROPHENOL	.745	.716
ENTAFLUOROPHENOL	.261	.289
-5-NITROBENZENE	.915	.897
EC&FLUOROBIPHENYL	.624	.622
-FLUOROANILINE	1.115	1.157
-FLUOROBIPHENYL	1.498	1.510
-NITROSODI-N-PROPYLAMINE	.055	.055
ITROBENZENE	.178	.179
SOPHORONE	.806	.817
-NITROPHENOL	.164	.169
,4-DIMETHYLPHENOL	.323	.327
IS (2-CHLOROETHOXY) METHANE	.423	.430
,4-DICHLOROPHENOL	.294	.297
,2,4-TRICHLOROBENZENE	.328	.338
-CHLOROANILINE	.249	.030
ENZOIC ACID	.199	.087
EXACHLOROBUTADIENE	.173	.179
-CHLORO-M-CRESOL	.370	.375
-METHYLNAPTHALENE	.235	.236
EXACHLOROCYCLOPENTADIENE	.095	.092
,4,6-TRICHLOROPHENOL	.238	1.002
-CHLORONAPHTHALENE	.660	.683
ENAPHTHYLENE	.994	.964
IMETHYL PHTHALATE	.742	.923
APHTHALENE	1.117	1.134
,6-DINITROTOLUENE	.155	.164
,4-DINITROTOLUENE	.225	.231
NITROANILINE	.020	.006
-NITROANILINE	.214	-
BENZOFURAN	.923	-
-NITROANILINE	.044	.031
,4,5-TRICHLOROPHENOL	.186	.200

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ENAPHTHENE	.045	.653
,4-DINITROPHENOL	.037	.034
-NITROPHENOL	.141	.157
LUORENE	.717	.715
-CHLOROPHENYL PHENYL ETHER	.300	.293
IETHYL PHTHALATE	.318	.356
,6-DINITRO-O-CRESOL	.075	.072
-NITROSODIPHENYLAMINE	.457	.412
-BROMOPHENYL PHENYL ETHER	.173	.185
EXACHLOROBENZENE	.217	.213
HENANTHRENE	1.119	1.139
NTHRACENE	.977	.779
LUORANTHENE	1.051	1.103
YRENE	1.109	1.104
,2-DIPHENYLHYDRAZINE	1.153	1.137
I-N-BUTYL PHTHALATE	1.312	1.357
ENTACHLOROPHENOL	.070	.063
ENZO (A) ANTHRACENE/CHRYSENE	1.306	1.367
HRYSENE/BENZO (A) ANTHRACENE	1.221	1.186
,3'-DICHLOROBENZIDINE	.978	.954
UTYL BENZYL PHTHALATE	.904	.901
IS (2-ETHYLHEXYL) PHTHALATE	1.572	1.351
I-N-OCTYL PHTHALATE	2.322	2.337
ENZIDINE	.000	.000
ENZO (A) PYRENE	.967	.987
NDENO (1,2,3-CD) PYRENE	.760	.117
IBENZO (A,H) ANTHRACENE	.589	.612
ENZO (GHI) PERYLENE	.626	.635
,4-BENZOFLUORANTHENE	1.127	1.143
ENZO (K) FLUORANTHENE	1.332	.793

0197938

17-MAY-85

Mead CompuChem
STANDARDS RELATIVE RETENTION REPORT

Time: 9:40

Research Triangle Park
Instrument: 15
Library: 21
Version: 26
Fraction: Capillary GC/MS

Compounds		Initial Run ID: HG830505415 STD Conc	Initial Run ID: HG830505415 RRT	Check Standards ID: HG830506C15 RRT	Check Standards ID: HG830506C15 DIFF
D-5-PHENOL	(IS)	20.00	1.000	1.000	.000
N-NITROSODIMETHYLAMINE		50.00	.463	.475	-.011
PHENOL		50.00	1.000	1.002	-.002
ANILINE		50.00	.997	.997	.003
BIS (2-CHLOROETHYL) ETHER		50.00	1.016	1.015	.002
2-CHLOROPHENOL		50.00	1.020	1.020	.000
1,3-DICHLOROBENZENE		50.00	1.052	1.052	.000
1,4-DICHLOROBENZENE		50.00	1.067	1.067	.000
1,2-DICHLOROBENZENE		50.00	1.114	1.113	.002
BENZYL ALCOHOL		50.00	1.111	1.111	.000
BIS (2-CHLOROISOPROPYL) ETHER		50.00	1.152	1.152	.000
O-CRESOL		50.00	1.148	1.148	.000
HEXACHLOROETHANE		50.00	1.191	1.189	.002
P-CRESOL		50.00	1.186	1.186	.000
2-FLUOROPHENOL		50.00	.775	.777	-.002
PENTAFLUOROPHENOL		50.00	1.005	1.007	-.002
D-5-NITROBENZENE		50.00	1.215	1.214	.002
DECAFLUOROBIPHENYL		50.00	1.276	1.274	.002
2-FLUOROANILINE		50.00	.956	.956	.000
2-FLUOROBIPHENYL		50.00	1.710	1.710	.000
D-8-NAPHTHALENE	(IS)	20.00	1.000	1.000	.000
N-NITROSODI-N-PROPYLAMINE		50.00	.851	.850	.000
NITROBENZENE		50.00	.872	.873	-.001
ISOPHORONE		50.00	.918	.919	-.001
2-NITROPHENOL		50.00	.933	.933	.000
2,4-DIMETHYLPHENOL		50.00	.967	.969	-.001
BIS (2-CHLOROETHOXY) METHANE		50.00	.965	.967	-.001
2,4-DICHLOROPHENOL		50.00	.979	.980	-.001
1,2,4-TRICHLOROBENZENE		50.00	.994	.994	.000
4-CHLOROANILINE		250.00	1.026	1.005	.021
BENZOIC ACID		250.00	.992	.992	.000
HEXACHLOROBUTADIENE		50.00	1.043	1.043	-.000
3-CHLORO-M-CRESOL		50.00	1.125	1.126	-.001
2-METHYLNAPHTHALENE		50.00	1.141	1.143	-.001
HEXACHLOROCYCLOPENTADIENE		50.00	1.188	1.189	-.001
2,4,6-TRICHLOROPHENOL		50.00	1.207	1.214	-.007
2-CHLORONAPHTHALENE		50.00	1.239	1.239	-.001
ACENAPHTHYLENE		50.00	1.322	1.324	-.002
DIMETHYL PHTHALATE		50.00	1.319	1.319	-.000
NAPHTHALENE		50.00	1.006	1.005	-.001
2,6-DINITROTOLUENE		50.00	1.330	1.332	-.002
2,4-DINITROTOLUENE		50.00	1.405	1.409	-.000
5-NITROANILINE		250.00	1.363	1.363	-.000
2-NITROANILINE		250.00	1.273	1.273	-.000
DIBENZOFURAN		50.00	1.393	1.394	-.000
4-NITROANILINE		250.00	1.492	1.493	-.001
2,4,5-TRICHLOROPHENOL		250.00	1.214	1.214	-.000
D-10-PHENANTHRENE	(IS)	20.00	1.000	1.000	.000
ACENAPHTHENE		50.00	.824	.823	.001
2,4-DINITROPHENOL		250.00	.934	.934	.000
4-NITROPHENOL		[illegible]	[illegible]	[illegible]	[illegible]

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'LUORENE		50.00	.386	.836	.001
.-CHLOROPHENYL PHENYL ETHER		50.00	.389	.339	.009
IETHYL PHTHALATE		50.00	.386	.836	.001
.,6-DINITRO-O-CRESOL		250.00	.902	.932	.001
-NITROSODIPHENYLAMINE		50.00	.905	.935	.000
.-BROMOPHENYL PHENYL ETHER		50.00	.943	.948	.001
EXACHLOROBENZENE		50.00	.965	.953	.000
HENANTHRENE		50.00	1.003	1.003	.009
NTHRACENE		50.00	1.003	1.008	.000
LUORANTHENE		50.00	1.151	1.151	.009
YRENE		50.00	1.178	1.177	.001
,2-DIPHENYLHYDRAZINE		50.00	.903	.908	.000
IE-N-BUTYL PHTHALATE		50.00	1.087	1.037	.009
ENTACHLOROPHENOL		50.00	.987	.938	-.001
-12-CHRYSENE	(ES)	40.00	1.009	1.000	.000
ENZO (A) ANTHRACENE/CHRYSENE		50.00	.999	.998	.009
HRYSENE/BENZO (A) ANTHRACENE		50.00	1.002	1.002	.009
,3'-DICHLOROBENZIDINE		50.00	1.001	1.001	.000
UTYL BENZYL PHTHALATE		50.00	.955	.956	-.001
IS (2-ETHYLHEXYL) PHTHALATE		50.00	1.012	1.013	-.001
IE-N-OCTYL PHTHALATE		50.00	1.066	1.066	.009
ENZIDINE		150.00	.009	.000	.009
ENZO (A) PYRENE		50.00	1.129	1.129	.000
NDENO (1,2,3-CD) PYRENE		50.00	1.281	1.285	-.004
IBENZO (A,H) ANTHRACENE		50.00	1.285	1.295	.009
ENZO (GHI) PERYLENE		50.00	1.324	1.325	-.001
,4-BENZOFLUORANTHENE		50.00	1.097	1.096	.001
ENZO (K) FLUORANTHENE		50.00	1.099	1.099	-.001

019798

17-MAY-83 09:25
Research Triangle Park
Fraction: Capillary GC/MS
Instrument# 15
Library# 21
Version# 26

MEAD COMPUCHEM
Internal Standard Response Verification Report

5-MAY-83 06:03 - 6-MAY-83 08:33

019493

			Int. Std. A D-3-PHENOL Conc: 20.0000			Int. Std. B D-8-NAPHTHALENE Conc: 20.0000				Int. Std. C D-10-PHENANTHRENE Conc: 20.0000			
ample/Run	Date	Analyst	Scan	Area	Relative Retention	Scan	Area	Relative Retention	Relative Response	Scan	Area	Relative Retention	Relative Response
G000920A15	5-MAY-83	624	616	16313.	.4338	359	37146.	.6049	.4528	1420	35548.	1.0000	1.0450
G830505A15	5-MAY-83	586	615	22191.	.4332	357	44935.	.6057	.4969	1415	43941.	1.0000	1.0203
H830505A15	5-MAY-83	586	614	21056.	.4333	358	43008.	.6055	.4996	1417	38500.	1.0000	1.1171
H001494C15	6-MAY-83	659	616	11556.	.4350	357	40965.	.6052	.2835*	1415	36188.	1.0000	1.1293
H001495C15	6-MAY-83	659	616	12321.	.4350	357	41035.	.6052	.3003	1416	40295.	1.0000	1.0183
H001498A15	6-MAY-83	586	618	12312.	.4355	360	43493.	.6061	.2331*	1419	62239.	1.0000	1.0297

17-MAY-83 09:27
Research Triangle Park
Fraction: Capillary GC/MS
Instrument# 15
Library# 21
Version# 24

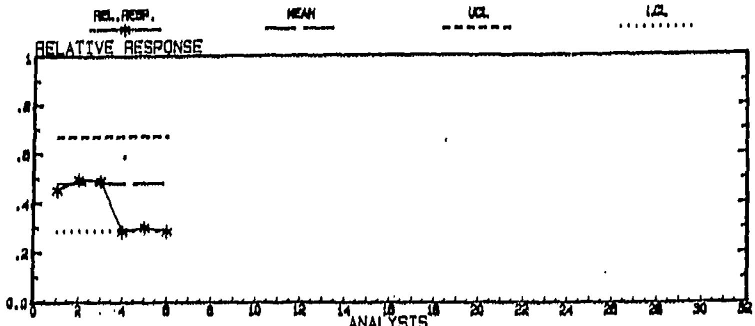
HEAD COMPUCHEM
Internal Standard Response Verification Report

5-MAY-83 06:05 - 6-MAY-83 08:33

C019800

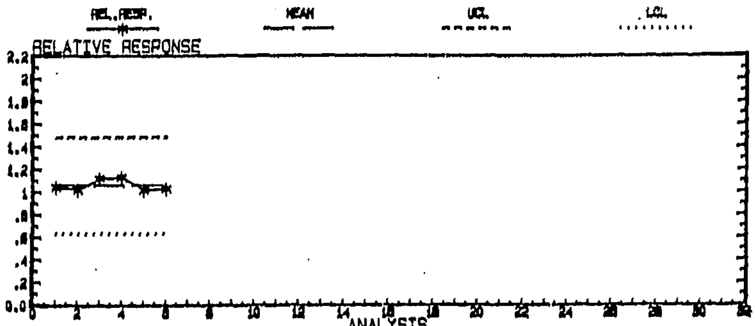
			Int. Std. A			Int. Std. B				Int. Std. C			
			D-10-PHENANTHRENE Conc: 20.0000			D-12-CHRYSENE Conc: 40.0000				Conc: .0000			
Sample/Run	Date	Analyst	Scan	Area	Relative Retention	Scan	Area	Relative Retention	Relative Response	Scan	Area	Relative Retention	Relative Response
HG000020A15	5-MAY-83	626	1420	35549.	.7521	1389	43516.	1.0000	.8169				
HG830505A15	5-MAY-83	586	1415	43261.	.7523	1391	60434.	1.0000	.7271				
HH830505A15	5-MAY-83	586	1417	38500.	.7525	1383	53526.	1.0000	.7153				
GH001496C15	6-MAY-83	659	1416	36183.	.7528	1381	37353.	1.0000	.9689				
GH001495C15	6-MAY-83	659	1416	40295.	.7528	1381	40889.	1.0000	.9855				
GH001498A15	6-MAY-83	586	1419	42233.	.7529	1385	43336.	1.0000	.9655				

SEMIVOLATILE: D3-PHENOL/D8-NAPHTHALENE



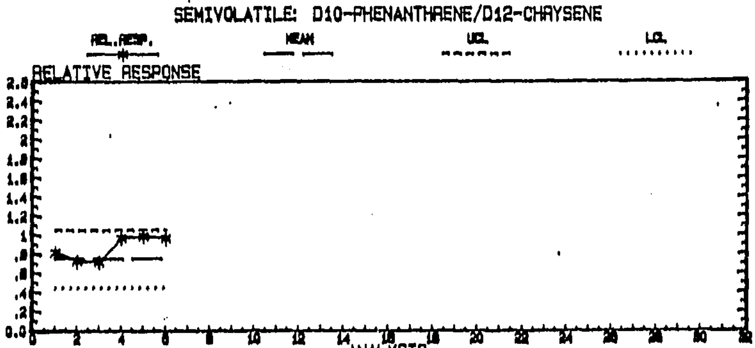
(CHART ABOVE PLOTTED ON 6/17/88 UNDER FILE ISRVCC0)

SEMIVOLATILE: D8-NAPHTHALENE/D10-PHENANTHRENE



(CHART ABOVE PLOTTED ON 6/17/88 UNDER FILE ISRVCC01)

SEMIVOLATILE: D10-PHENANTHRENE/D12-CHRYSENE



(CHART ABOVE PLOTTED ON 6/17/88 UNDER FILE ISRVCC02)

DATE	4/5/83	5/5/83	5/4/83	5/11/83	5/16/83	5/16/83																										
ANALYST	624	586	586	653	653	586																										
COMMENTS																																

019801

50

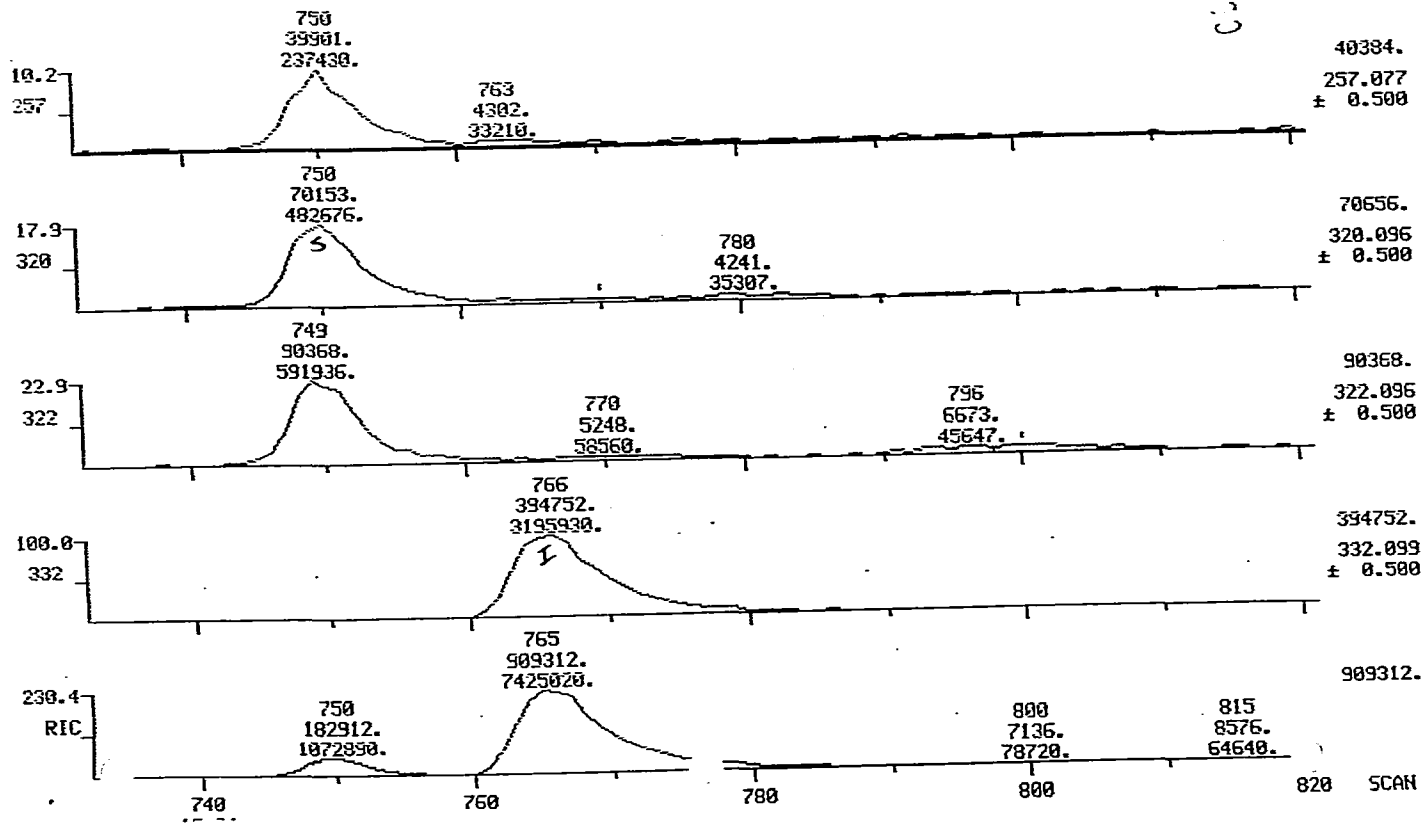
467 1746-01-6

MEAD COMPUCHEM

DATA: TC001495B04

SCANS 700 TO 821

RIC + MASS CHROMATOGRAMS
05/11/83 20:01:00
SAMPLE: 2UL TCDD SAMPLE #1495 (5/5/83) ON #4
2,3,7,8-TCDD



MEAD COMPUCHEM

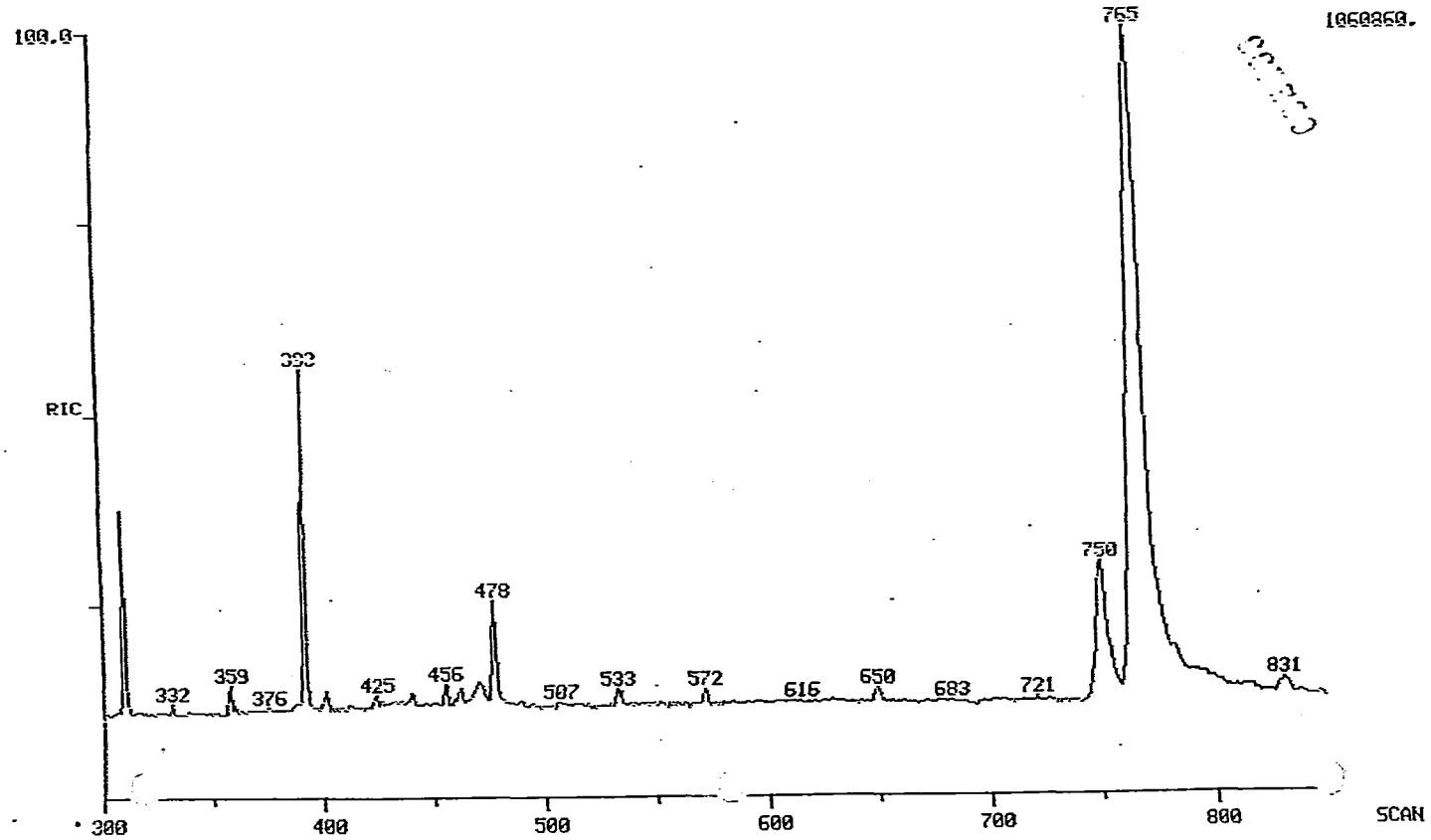
DATA: TC001495B04

SCANS 300 TO 800

RIC

05/11/83 20:01:00

SAMPLE: 2UL TCDD SAMPLE #1495 (5/5/83) ON #4



ROCEDURE: RK DIAGNOSTIC REPORT 5/11/83 20:23:24
ATA FILE: TC001495B04
EFERENCE: TC
METHOD: TC INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
R ORT: TCS

---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
2	2	8	200	7	7	1	456	TCS/TCU

7 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND ><			---------- SEARCH ----------						>< SAT ><	------ CHRO ------- >			
ID	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	TC	1	-774	766	765	-1	4	832	.	332	766	1	1
2	TC	2	-756	749	750	1	2	989	.	320	750	.	1
3	TC	3	-756	750	750	.	1	989	.	322	749	-1	1
4	TC	4	-756	750	750	.	1	989	.	257	750	.	1
5	TC	5	-774	768	770	2	1	942	.	320	.	.	.
6	TC	6	-774	768	770	2	1	942	.	322	.	.	.
7	TC	7	-774	768	766	-2	1	972	.	257	.	.	.

019801

MEAD COMPUCHEM

JANTITATION REPORT FILE: TC001495B04

ATA: TC001495B04.TI
5/11/83 20:01:00
AMPL 2UL TCDD SAMPLE #1495 (5/5/83) ON #4
JBMITTED BY: 04 ANALYST: 586

IOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
ESP. FAC. FROM LIBRARY ENTRY

IO	NAME
1	*13C12-2,3,7,8-TCDD
2	1,2,3,4-TCDD
3	1,2,3,4-TCDD
4	1,2,3,4-TCDD
5	2,3,7,8-TCDD
6	2,3,7,8-TCDD
7	2,3,7,8-TCDD

IO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	332	766	17:09	1	1.000	A BB	3195930.	200.000	PG	61.98
2	320	750	16:48	1	0.979	A BB	429760.	37.912	PG/UL	11.75
3	322	749	16:47	1	0.978	A BB	549440.	37.799	PG/UL	11.71
4	257	750	16:48	1	0.979	A BB	241151.	46.975	PG/UL	14.56
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									

IO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:19	0.99	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	16:56	0.99	0.978	1.00	37.91	200.00	0.134	0.709	0.19
3	16:56	0.99	0.978	1.00	37.80	200.00	0.172	0.910	0.19
4	16:56	0.99	0.978	1.00	46.98	200.00	0.075	0.321	0.23
5	17:20		1.001			200.00		0.551	
6	17:21		1.003			200.00		0.635	
7	17:23		1.004			200.00		0.311	

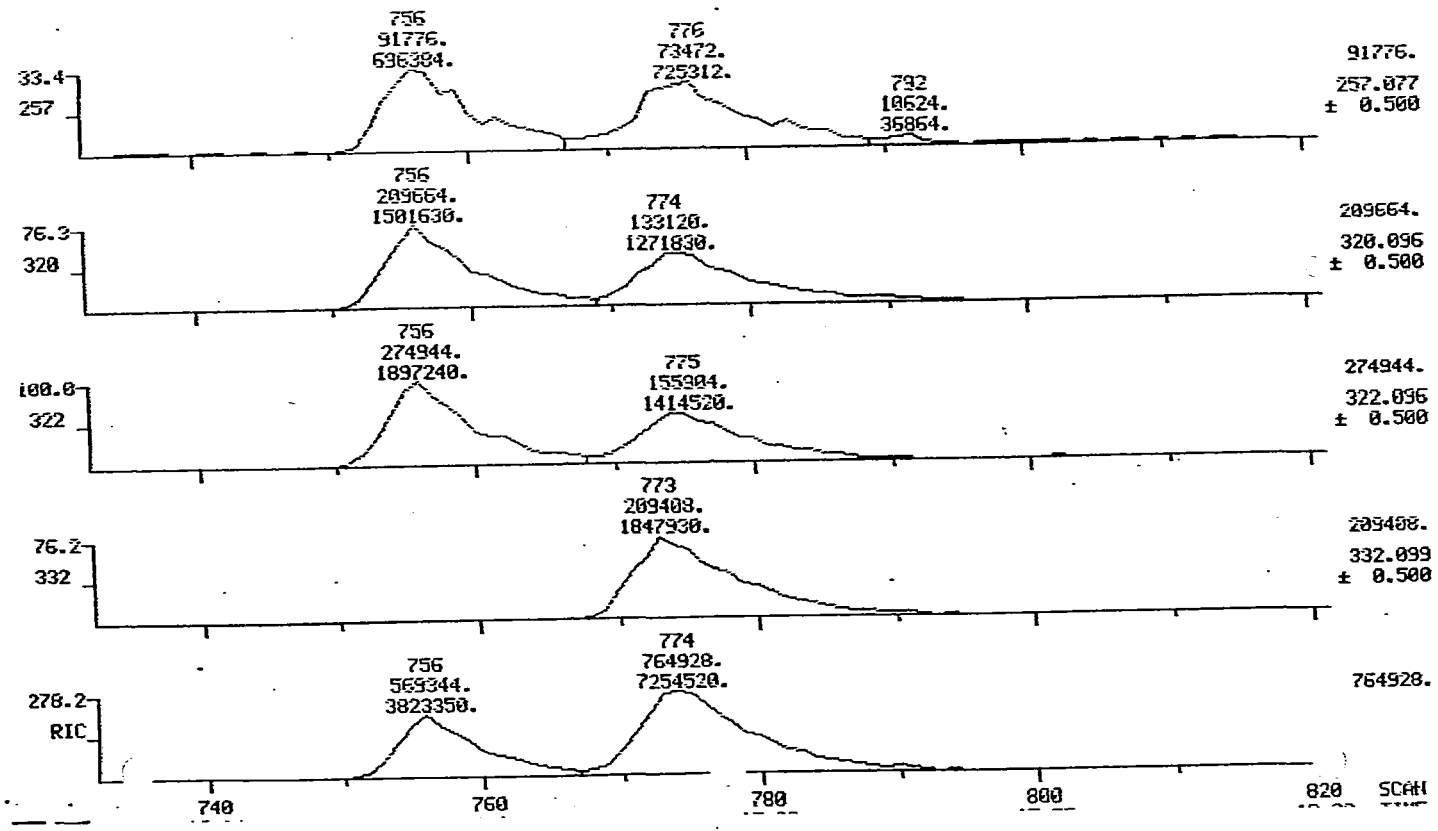
019805

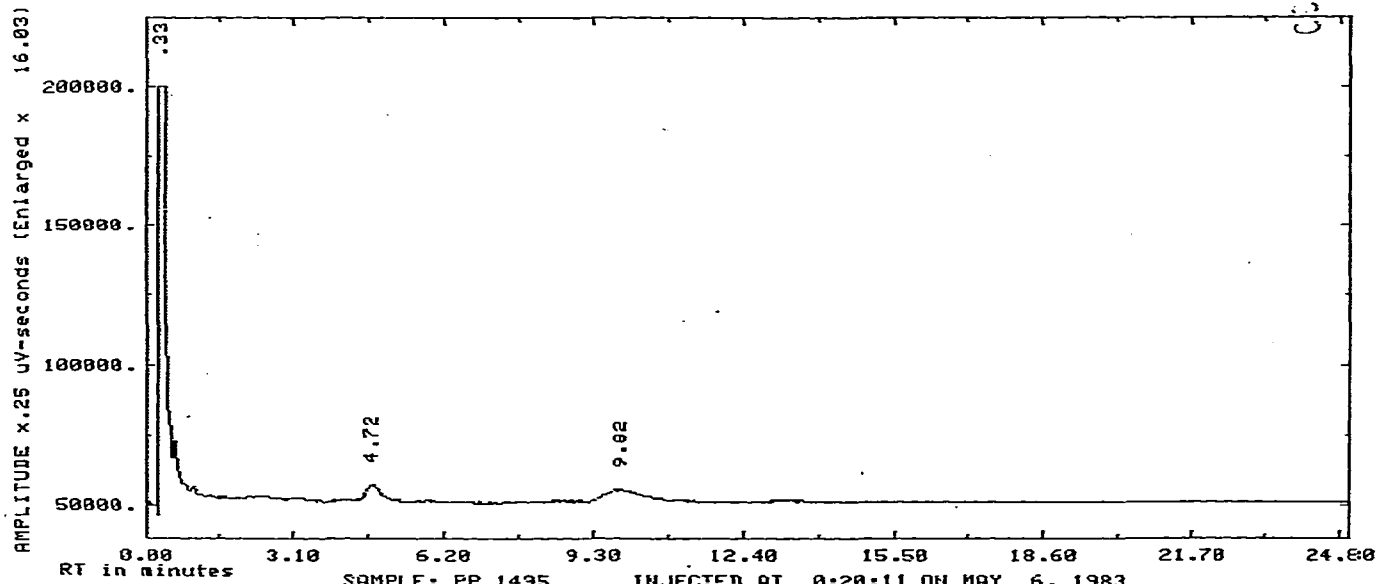
MEAD COMPUCHEM

DATA: TT830511B04

SCANS 732 TO 821

RIC + MASS CHROMATOGRAMS
05/11/83 18:51:00
SAMPLE: 2UL TCDD STD #6949 ON #4
2,3,7,8-TCDD





SAMPLE: PP 1495 INJECTED AT 0:20:11 ON MAY 6, 1983
Method: BACK07 Raw: R7A30 Proc: P7A30

019807

Column A

1.5% 2250/1.95% 2401 Supelco
Cond.: 190, isothermal
Ar/CH_4, 25 cc/min.

Peaks, 0250 Standard

1A Alpha-BHC
2A Beta-BHC
3A Gamma-BHC
4A Heptachlor Epoxide
5A Alpha-Chlordane
6A p,p'-DDE
7A p,p'-DDD
8A p,p'-DDT
9A Endosulfan Sulfate

Peaks, 0266 Standard

10A Delta-BHC
11A Heptachlor
12A Aldrin
13A Delta-Chlordane
14A Endosulfan I
15A Dieldrin
16A Endrin
17A Endosulfan II
18A Endrin Aldehyde

Column B

Capillary Column DB-5 30M
50 for 1 then 210 at 20
hold 1 then 250 at 3 hold 20
Ar/CH_4, 50 cm/sec

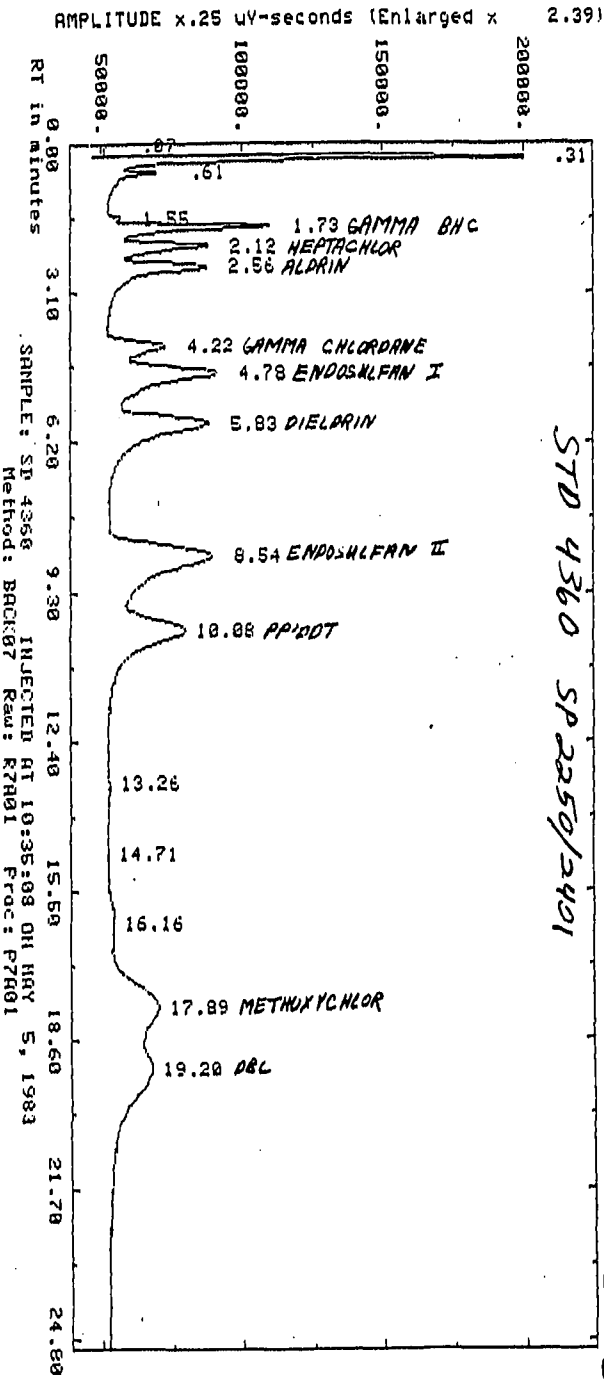
Peaks, 0250 Standard

1B Alpha-BHC
2B Beta-BHC
3B Gamma-BHC
4B Heptachlor Epoxide
5B Alpha-Chlordane
6B p,p'-DDE
7B p,p'-DDD
8B Endosulfan Sulfate
9B p,p'-DDT

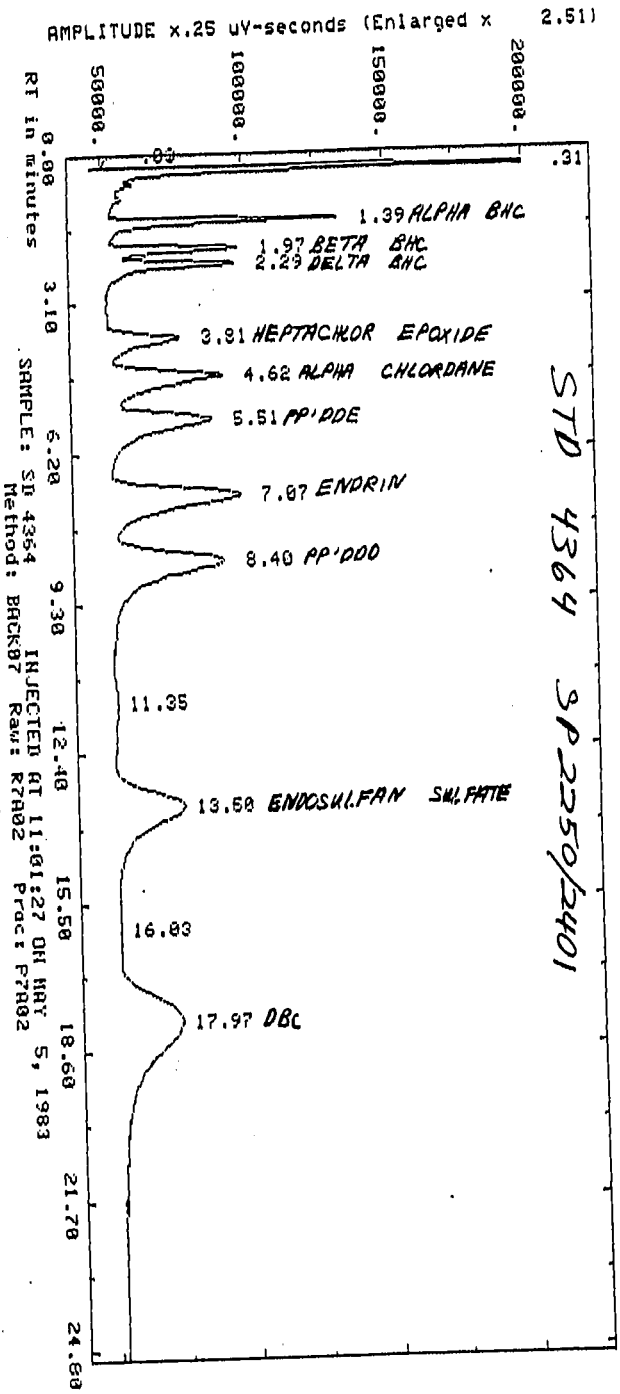
Peaks, 0266 Standard

10B Delta-BHC
11B Heptachlor
12B Aldrin
13B Delta-Chlordane
14B Endosulfan I
15B Dieldrin
16B Endrin and Endosulfan II
17B Endrin Aldehyde

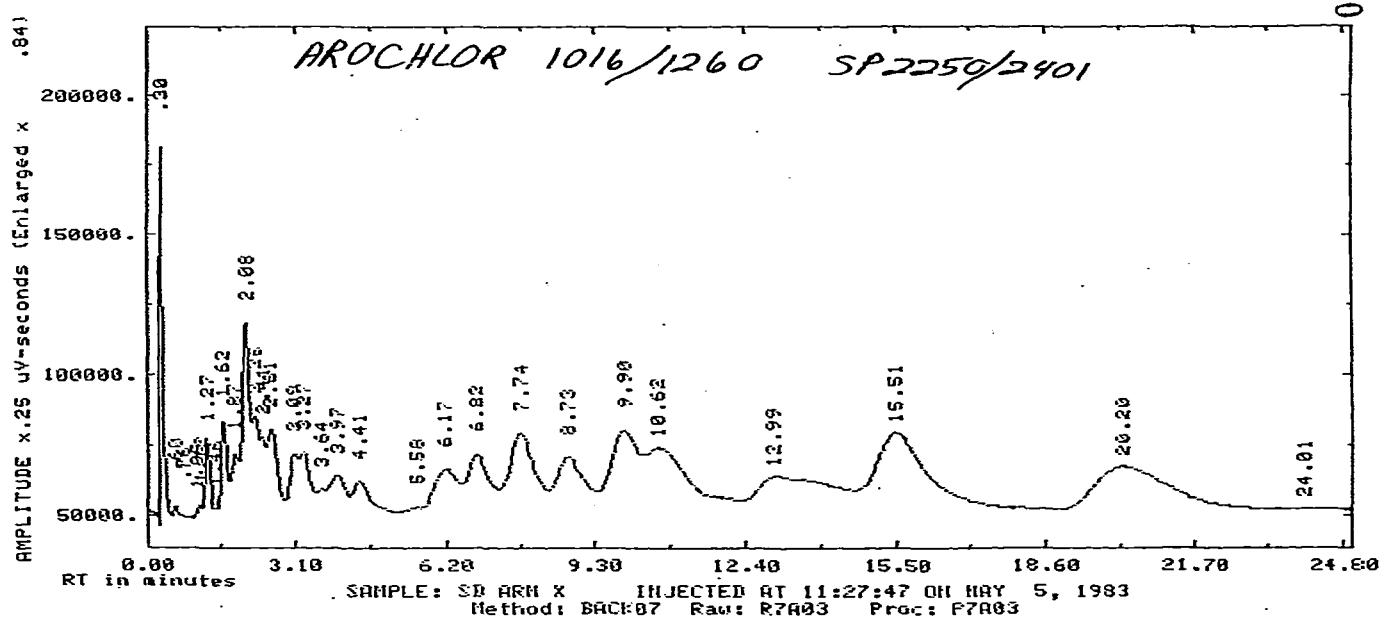
019803


AMPLITUDE x.25 uV-seconds (Enlarged x 2.39)
.00005
.00010
.00015
.00020
RT in minutes
0.00
3.10
6.20
9.30
12.40
15.50
18.60
21.70
24.80
.07
.31
.61
1.55
1.73 GAMMA BHC
2.12 HEPTACHLOR
2.56 ALDRIN
4.22 GAMMA CHLORDANE
4.78 ENDOSULFAN I
5.83 DIELDRIN
8.54 ENDOSULFAN II
10.08 PP'DDT
13.26
14.71
16.16
17.89 METHOXYCHLOR
19.20 DBL
SAMPLE: SP 4360
Method: BACK07 Raw: R2R01 Proc: P2R01
INJECTED AT 10:35:08 ON MAY 5, 1983
STD 4360 SP 2250/2401

019806


AMPLITUDE x.25 uV-seconds (Enlarged x 2.51)
50000.
100000.
150000.
200000.
RT in minutes
0.00
3.10
6.20
9.30
12.40
15.50
18.60
21.70
24.80
.03
.31
1.39 ALPHA BHC
1.97 BETA BHC
2.29 DELTA BHC
3.81 HEPTACHLOR EPOXIDE
4.62 ALPHA CHLORDANE
5.51 PP'DDE
7.07 ENDRIN
8.40 PP'DDD
11.35
13.50 ENDOSULFAN SULFATE
16.03
17.97 DBC
STD 4364 SP2250/2401
SAMPLE: SP 4364
Method: BACK07
INJECTED AT 11:01:27 ON MAY 5, 1983
Raw: R7A02
Proc: P7A02

019810


AROCHLOR 1016/1260 SP2250/2401
AMPLITUDE x.25 uV-seconds (Enlarged x .841)
200000.
150000.
100000.
50000.
.30
1.27
1.62
2.08
3.64
3.97
4.41
5.58
6.17
6.82
7.74
8.73
9.90
10.62
12.99
15.51
20.20
24.01
0.00
3.10
6.20
9.30
12.40
15.50
18.60
21.70
24.80
RT in minutes
SAMPLE: SB ARH X INJECTED AT 11:27:47 ON MAY 5, 1983
Method: BACK07 Raw: R7A03 Proc: P7A03

019811

DETECTION LIMIT SUMMARY FOR
VOA OF HAZARDIOUS SUBSTANCE LIST COMPOUNDS

Compound I.D.	Mead CompuChem® Low Level Water Detection Limits (ug/l)*	Low Level Solid Detection Limits (ug/kg)*	Medium Level Detection Limits (ug/g)*	3 x Standard Deviation ng on-column
Bromochloromethane (IS)				
Chloroetnane	5	2.5	5	1
Vinyl Chloride	5	2.5	5	1
Chloroetnane	5	2.5	5	1
Bromometnane	5	2.5	5	2
Acrolein	100	50	100	48
Acrylonitrile	100	50	100	36
Methylene Chloride	5	2.5	5	2
Trichlorofluoromethane	5	2.5	5	1
1,1-Dichloroethylene	5	2.5	5	2
1,1-Dichloroetnane	5	2.5	5	3
1,2-Trans-Dichloroethylene	5	2.5	5	4
Chloroform	5	2.5	5	3
1,2-Dichloroetnane	5	2.5	5	4
1,1,1-Trichloroetnane	5	2.5	5	2
Carbon tetrachloride	5	2.5	5	2
Bromodichlorometnane	5	2.5	5	3
1 -Dichlorobutane (IS)				
1,2-Dichloropropane	5	2.5	5	4
Trans-1,3-Dichloropropylene	5	2.5	5	1
Trichloroethylene	5	2.5	5	2
Benzene	5	2.5	5	4
Cis-1,3-Dichloropropene	10	5.0	10	2
1,1,2-Trichloroetnane	5	2.5	5	11
1, 2-Dibromochlorometnane	5	2.5	5	3
Bromoform	5	2.5	5	2
1,1,2,2-Tetrachloroetnylene	5	2.5	5	1
1,1,2,2-Tetrachloroetnane	5	2.5	5	1
Toluene	5	2.5	5	1
Chlorobenzene	5	2.5	5	1
Ethylbenzene	5	2.5	5	1
2-Chloroetnyl vinyl etner	5	2.5	5	1
d_4-1,2 Dichloroetnane (Surr.)				
d_{10}- Benzene (Int.Std.)				
d_8 - Toluene (Surr.)				
Acetone	100	50	100	19
2-Butanone	200	100	200	8
4-Metnyl-2-Pentanone	100	50	100	30
2-Hexanone	100	50	100	13
Carbon disulfide	10	5	10	2
Vinyl acetate	10	5	10	5
Styrene	5	2.5	5	2
[illegible]ylene	5	2.5	5	2

*Estimated MDL
**3-Sigma DL

019917

DETECTION LIMIT SUMMARY FOR
SEMIVOLATILE HAZARDIOUS SUBSTANCE LIST COMPOUNDS

Compound I.D.	Mead CompuChem® Low Level Water Detection Limits (ug/l)*	Low Level Solid Detection Limits (ug/kg)*	Medium Level Detection Limits (ug/g)*	3 x Standard Deviation** ng on-column
d_3-PHENOL (IS)	20	400	10	
N-NITROSODIMETHYLAMINE	20	400	10	3
PHENOL	20	400	10	4
ANILINE	20	400	10	10
BIS(2-CHLOROETHYL)ETHER	20	400	10	6
2-CHLOROPHENOL	20	400	10	4
1,3-DICHLOROBENZENE	20	400	10	5
1,4-DICHLOROBENZENE	20	400	10	4
1,2-DICHLOROBENZENE	20	400	10	4
BENZYL ALCOHOL	40	800	20	4
BIS(2-CHLORDISOPROPYL)ETHER	40	800	20	8
2-METHYLPHENOL	20	400	10	3
HEXACHLOROETHANE	20	400	10	4
4-METHYLPHENOL	20	400	10	3
2-FLUOROPHENOL (Surr.)				
T TAFLUOROPHENOL (Surr.)				
d_5-PHENOL (Surr)				
d_5-NITROBENZENE (Surr.)				
DECAFLUOROBIPHENYL (Surr.)				
2-FLUOROANILINE (Surr)				
2-FLUOROBIPHENYL (Surr)				
d_8- NAPHTHALENE (IS)				
N-NITROSO-DI-N-PROPYLAMINE	40	800	20	8
NITROBENZENE	20	400	10	4
ISOPHORONE	20	400	10	3
2-NITROPHENOL	40	800	20	2
2,4-DIMETHYLPHENOL	20	400	10	2
BIS(2-CHLOROETHOXY)METHANE	40	800	20	6
2,4-DICHLOROPHENOL	20	400	10	5
1,2,4-TRICHLOROBENZENE	20	400	10	5
4-CHLOROANILINE	100	2000	50	27
BENZOIC ACID	200	4000	100	10
HEXACHLOROBUTADIENE	20	400	10	10
P-CHLORO-M-CRESOL	40	800	20	4
2-METHYLNAPTHALENE	40	800	20	3
HEXACHLOROCYCLOPENTADIENE	20	400	10	7
2,4,6-TRICHLOROPHENOL	20	400	10	10
2-CHLORONAPHTHALENE	20	400	10	4
ACENAPHTHYLENE	20	400	10	3
DIMETHYLPHTHALATE	20	400	10	6
N[illegible]PHTHALENE	20	400	10	5
[illegible]-DINITROTOLUENE	40	800	20	4

*Estimated MDL
**3-Sigma DL

019871

DETECTION LIMIT SUMMARY FOR
SEMIVOLATILE HAZARDIOUS SUBSTANCE LIST COMPOUNDS

ompound I.D.	Mead CompuChem® Low Level Water Detection Limits (ug/l)*	Low Level Solid Detection Limits (ug/kg)*	Medium Level Detection Limits (ug/g)*	3 x Standard Deviation** ng on-column
2,4-DINITROTOLUENE	40	800	20	8
2-NITROANILINE	200	4000	100	19
3-NITROANILINE	200	4000	100	9
DIBENZOFURAN	20	400	10	3
4-NITROANILINE	200	4000	100	5
2,4,5-TRICHLOROPHENOL	200	4000	100	5
d10-PHENANTHRENE (IS)				
ACENAPHTHENE	20	400	10	4
2,4-DINITROPHENOL	100	2000	50	7
4-NITROPHENOL	100	4000	100	11
FLUORENE	20	400	10	4
4-CHLOROPHENYL PHENYL ETHER	20	400	10	5
DIETHYLPHTHALATE	20	400	10	4
4,6-DINITRO-O-CRESOL	40	800	20	2
DIPHENYLAMINE (N-NITROSO)	20	400	10	14
4-B OPHENYL PHENYL ETHER	20	400	10	6
HEXACHLOROBENZENE	20	400	10	9
PHENANTHRENE	20	400	10	5
ANTHRACENE	20	400	10	5
FLUORANTHENE	20	400	10	9
PYRENE	20	400	10	6
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	40	800	20	3
DI-N-BUTYLPHTHALATE	20	400	10	13
PENTACHLOROPHENOL	40	800	20	10
d12-CHRYSENE (IS)				
BENZO(A)ANTHRACENE	20	400	10	10
CHRYSENE	20	400	10	8
3,3'-DICHLOROBENZIDINE	40	800	20	20
BUTYLBENZYLPHTHALATE	20	400	10	4
BIS(2-ETHYLHEXYL)PHTHALATE	20	400	10	16
DI-N-OCTYLPHTHALATE	20	400	10	6
BENZIDINE	80	1600	40	>20
BENZO(A)PYRENE	40	800	20	9
INDENO(1,2,3-C,D)PYRENE	40	800	20	10
DIBENZO(A,H)ANTHRACENE	40	800	20	8
BENZO(G,H,I)PERYLENE	40	800	20	8
BENZO(B)FLUORANTHENE				7
BENZO(K)FLUORANTHENE				>20

*Estimated MDL
**3-Sigma CL