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ICM LABORATORIES
1152 ROUTE 10
RANDOLPH, NJ 07869
201-584-0330
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ANALYTICAL DATA REPORT PACKAGE

August 15, 1996

ROY F. WESTON, INC.

RFP-1416

Cornell-Dubilier

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QUANT REPORT

Operator ID: TRFI2
Output File: ^04519::F3
Data File: >04519::G5
Name: PIBLK07
Misc: DB1701, 30M X .53mm INST 58903, 1ul INJ

Quant Rev: 7
Quant Time: 960814 08:38
Injected at: 960727 11:54
Dilution Factor: 1.00000
Instrument ID: GC04

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07
Last Qcal Time: 960724 02:38

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Tetrachloro-m-xylene	9.32	1118	868043	19.51	ng/ml	100
~~2) #alpha-BHC~~ NC	13.35	1602	26284	.796	ng/ml	100
~~3) #beta-BHC~~ NC	18.67	2240	6293	.247	ng/ml	100
~~6) #Heptachlor~~ NC	16.30	1956	9330	.195	ng/ml	100
~~9) #Endosulfan I~~ NC	21.56	2587	9045	.255	ng/ml	100
13) #Endosulfan II NC	26.86	3223	13706	.389	ng/ml	100
16) #4,4'-DDT NC	27.41	3289	20804	1.23	ng/ml	100
~~17) #Methoxychlor~~ NC	30.90	3708	27874	2.15	ng/ml	100
19) #Decachlorobiphenyl	38.68	4641	984351	20.93	ng/ml	100
~~24) #Aroclor-1221(1)~~ ND	7.55	906	31706	29.74	ng/ml	100
~~25) #Aroclor-1232(1)~~ ND	7.55	906	31706	18.01	ng/ml	100
~~32) #Toxaphene(3)~~ ND	30.24	3629	17532	33.34	ng/ml	100
~~37) #Aroclor-1016(5)~~ ND	18.45	2214	30066	15.20	ng/ml	100
48) ~~#Aroclor-1248(3)~~ ND	18.45	2214	30066	13.44	ng/ml	100

Compound uses ESTD

EPM
8/14/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK08

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: PIBLK08

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03531

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

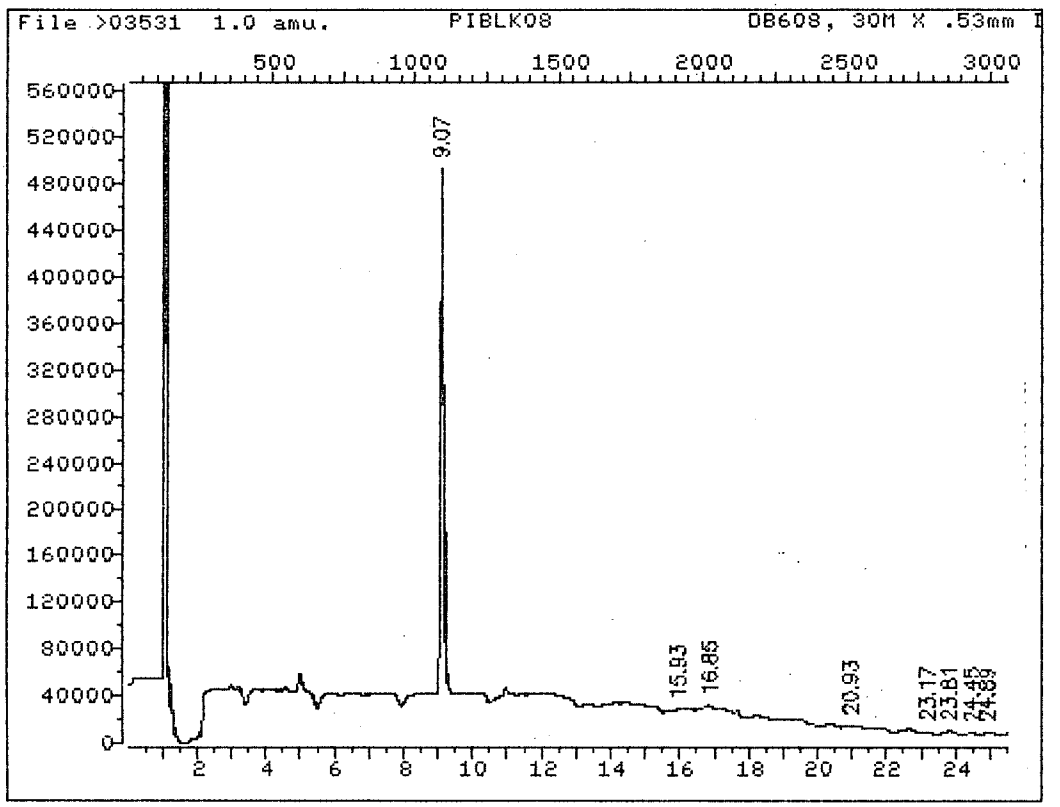
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/27/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

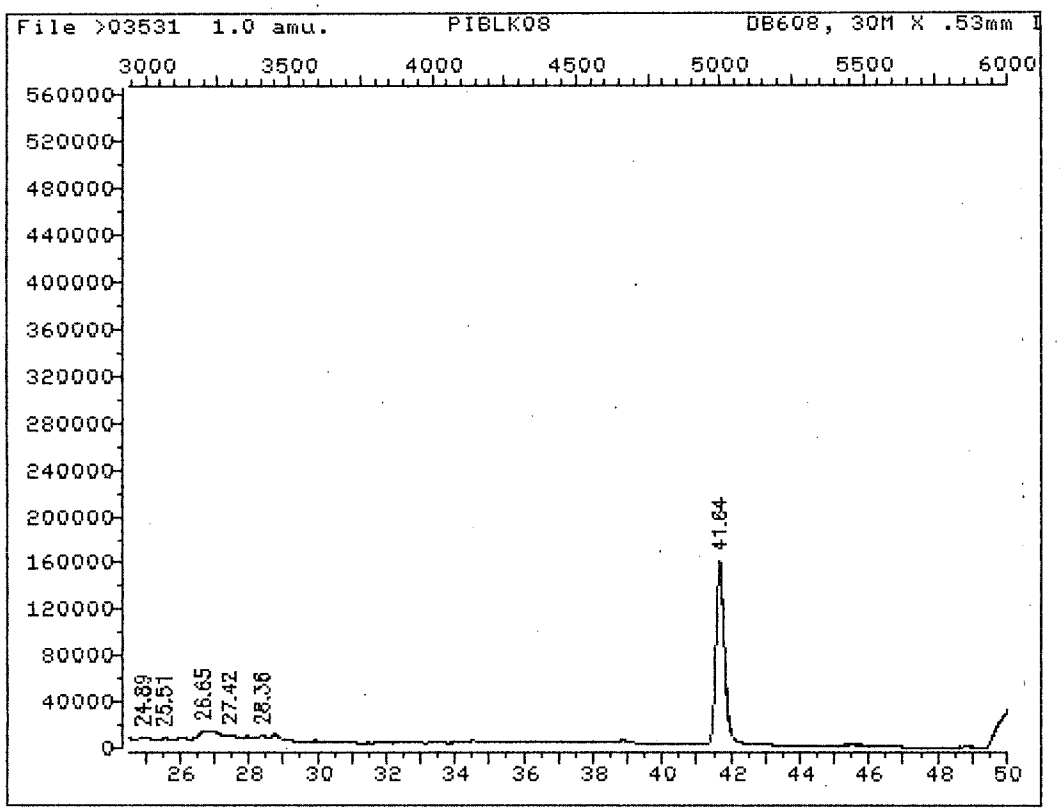


Data File: >03531::G2 Quant Output File: ^03531::GQ
Name: PIBLK08 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960727 23:55
Injected at: 960727 23:02

Page 1 of 2

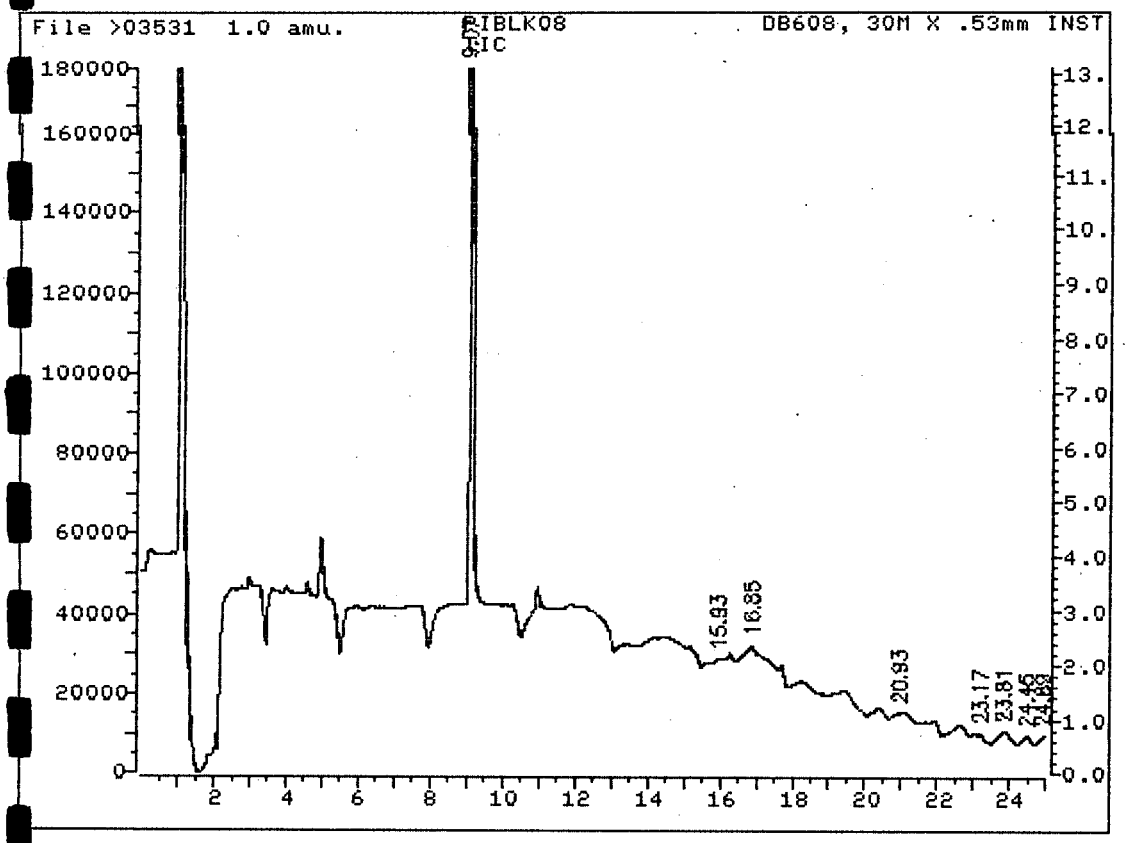


Data File: >03531::G2 Quant Output File: ^03531::GQ
Name: PIBLK08 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960727 23:55
Injected at: 960727 23:02

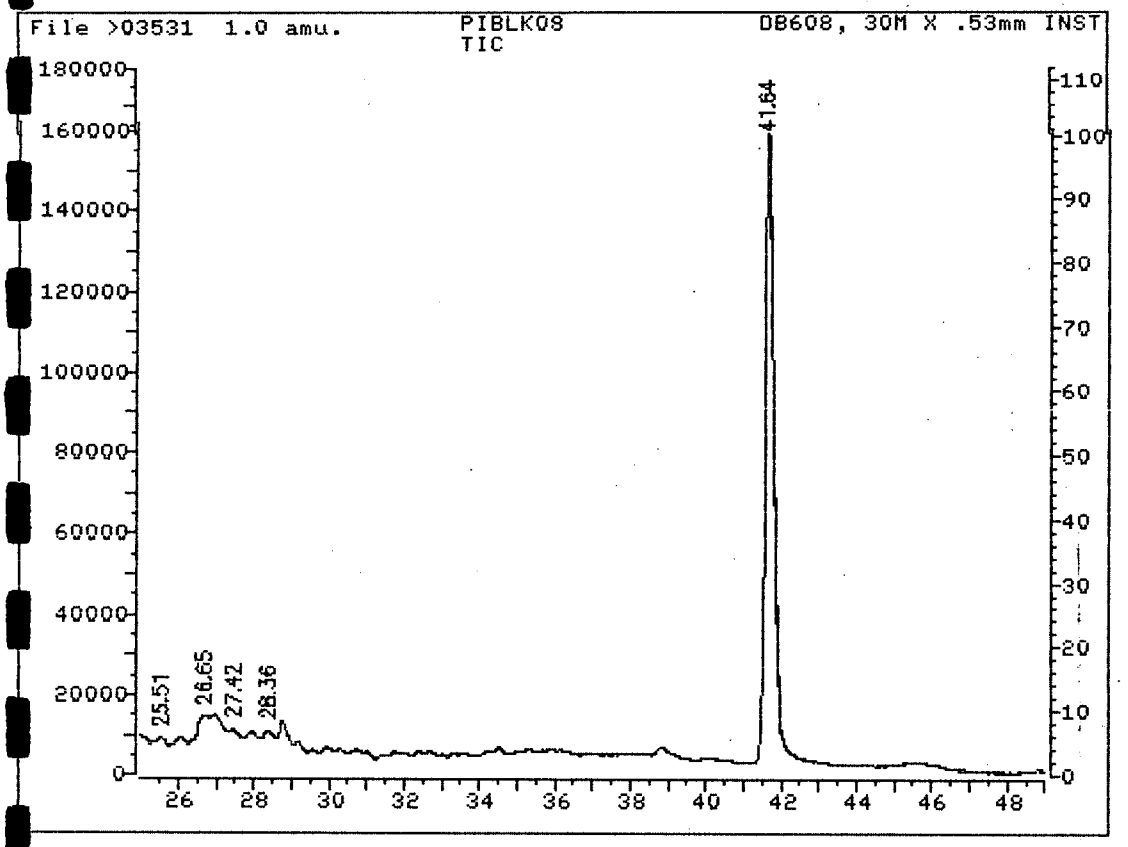
Page 2 of 2



MS data file header from : >03531::G2

Sample: PIBLK08 Operator: TRFI2 7/27/96 23:02
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03531::G2

Sample: PIBLK08 Operator: TRFI2 7/27/96 23:02
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

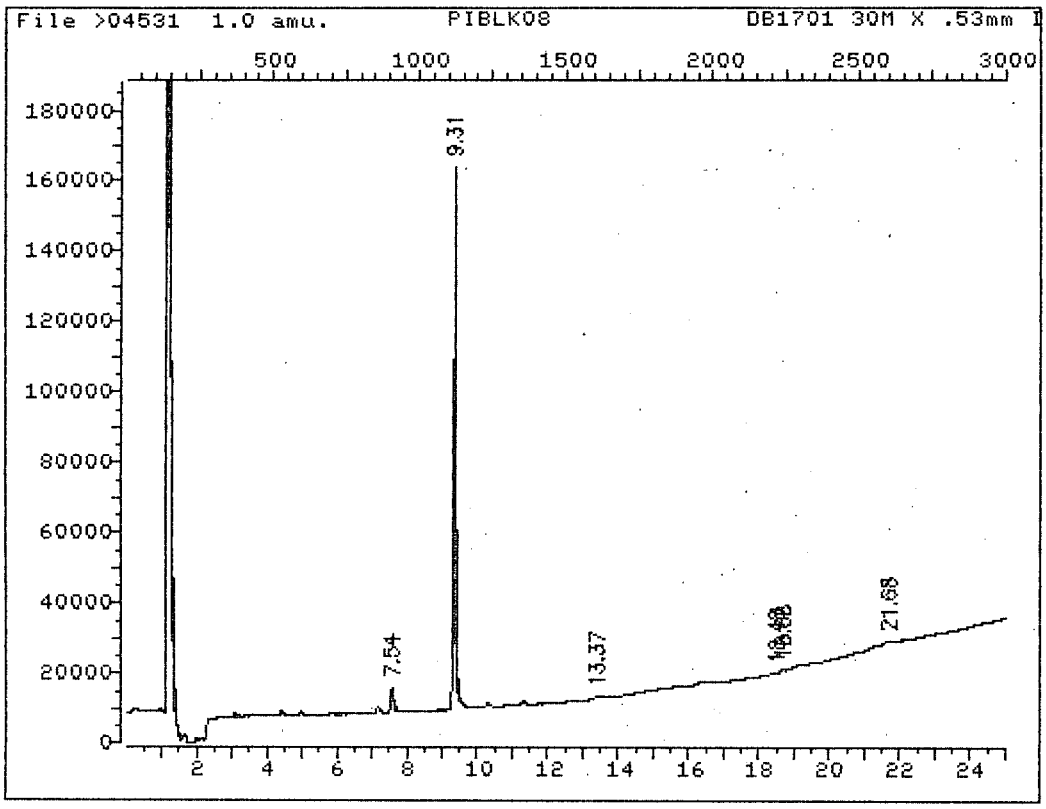
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960727 23:55
Output File: ^03531::GQ Injected at: 960727 23:02
Data File: >03531::G2 Dilution Factor: 1.00000
Name: PIBLK08 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	2584609	20.09	ng/ml	100
6)	#~~Heptachlor~~ OW	15.93	1912	7108	.0614	ng/ml	100
10)	#~~Dieldrin~~ OW	23.17	2780	13771	.141	ng/ml	100
12)	#~~Endrin~~ OW	24.89	2987	14851	.167	ng/ml	100
14)	#~~4,4' DDD~~ OW	25.51	3061	31509	.516	ng/ml	100
15)	#~~Endosulfan Sulfate~~ NC	28.36	3403	34305	.384	ng/ml	100
19)	#Decachlorobiphenyl	41.64	4997	2535367	21.28	ng/ml	100
21)	#~~gamma Chlordane~~ OW	20.93	2512	5093	.0402	ng/ml	100
22)	#~~Toxaphene(1)~~ UP	23.81	2857	40044	24.42	ng/ml	100
27)	#~~Aroclor 1248(1)~~ UP	15.93	1912	7108	.965	ng/ml	100
28)	#~~Aroclor-1254(1)~~ UP	20.93	2512	5093	1.04	ng/ml	100
29)	#~~Aroclor-1260(1)~~ UP	24.45	2934	27021	4.35	ng/ml	100
30)	#~~Endrin aldehyde~~ OW	27.42	3290	24623	.302	ng/ml	100
31)	#~~Toxaphene(2)~~ UP	27.42	3290	24623	14.93	ng/ml	100
32)	#~~Toxaphene(3)~~ UP	28.36	3403	34305	15.99	ng/ml	100
35)	#~~Aroclor 1016(3)~~ UP	15.93	1912	7108	.640	ng/ml	100
36)	#~~Aroclor-1016(4)~~ UP	16.85	2022	69857	18.29	ng/ml	100
41)	#~~Aroclor-1232(3)~~ UP	15.93	1912	7108	1.56	ng/ml	100
42)	#~~Aroclor-1232(4)~~ UP	16.85	2022	69857	41.23	ng/ml	100
44)	#~~Aroclor 1242(3)~~ UP	15.93	1912	7108	.808	ng/ml	100
45)	#~~Aroclor-1242(4)~~ UP	16.85	2022	69857	20.93	ng/ml	100
51)	#~~Aroclor-1254(2)~~ UP	20.93	2512	5093	.874	ng/ml	100
52)	#~~Aroclor-1254(3)~~ UP	23.17	2780	13771	4.58	ng/ml	100
54)	#~~Aroclor-1254(5)~~ UP	24.89	2987	14851	4.10	ng/ml	100
55)	#~~Aroclor 1260(2)~~ UP	24.89	2987	14851	2.12	ng/ml	100
56)	#~~Aroclor 1260(3)~~ UP	26.65	3198	60063	8.78	ng/ml	100

Compound uses ESTD

EPma
8/8/96



Data File: >04531::G5 Quant Output File: ^04531::GQ
Name: PIBLK08 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960727 23:53
Injected at: 960727 23:02

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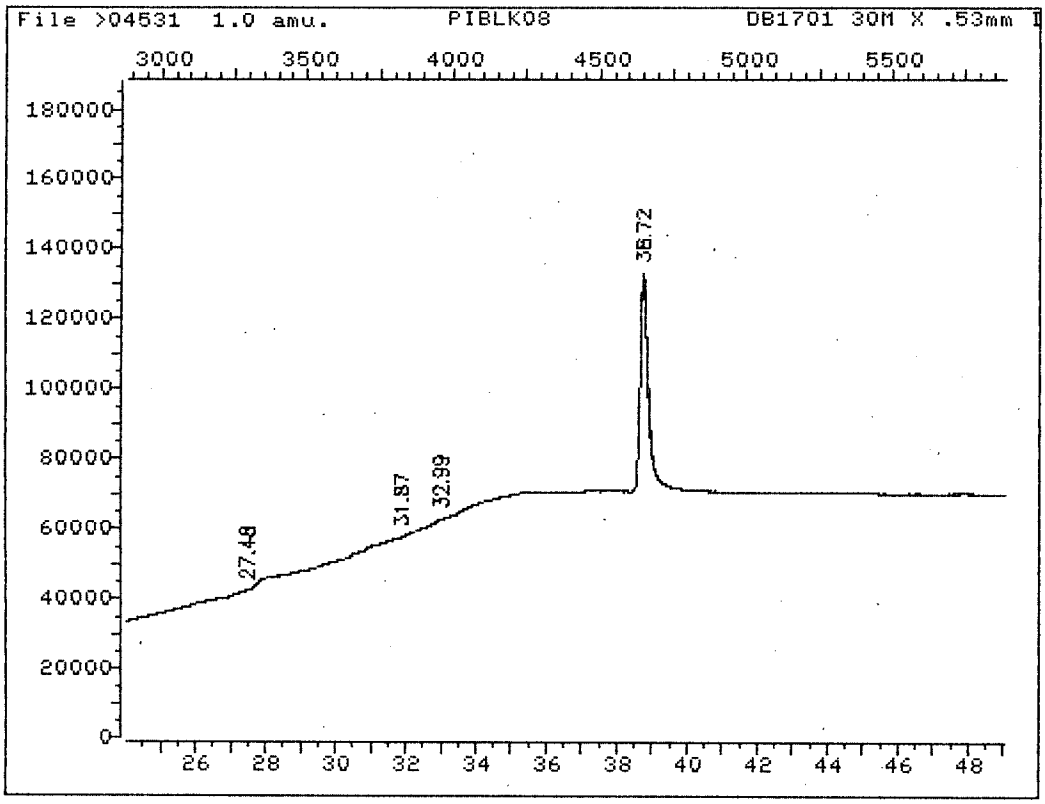

Data File: >04531::G5 Quant Output File: ^04531::GQ
Name: PIBLK08 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960727 23:53
Injected at: 960727 23:02

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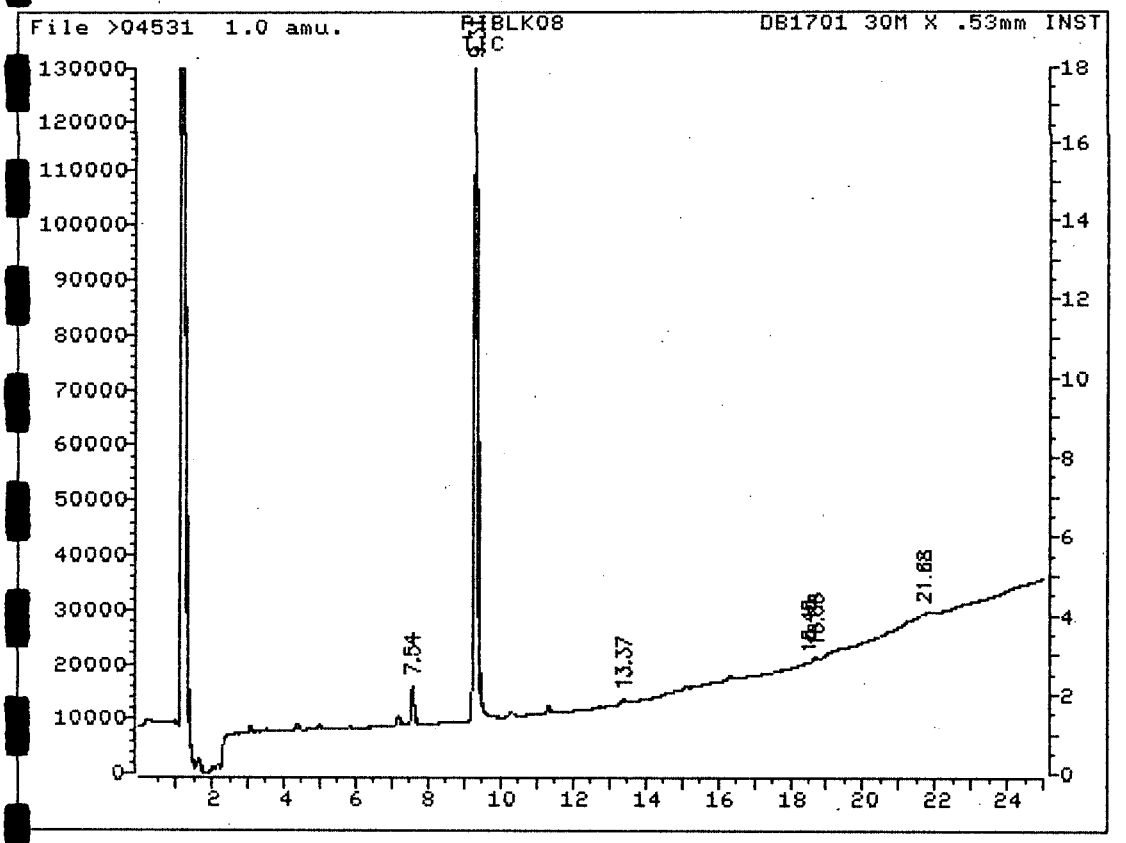
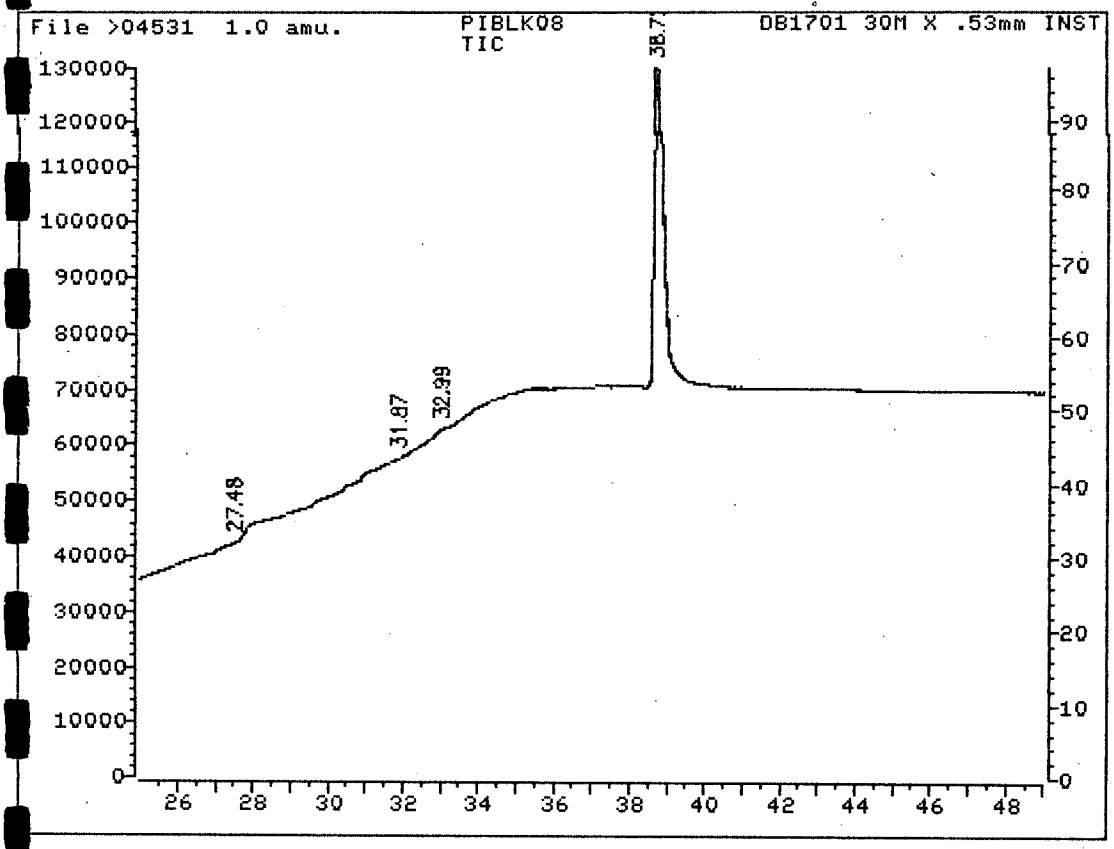


MS data file header from : >04531::G5

Sample: PIBLK08 Operator: TRFI2 7/27/96 23:02
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04531::G5

Sample: PIBLK08 Operator: TRFI2 7/27/96 23:02
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960727 23:53
Output File: ^04531::GQ Injected at: 960727 23:02
Data File: >04531::G5 Dilution Factor: 1.00000
Name: PIBLK08 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	861361	19.36	ng/ml	100
2)	#~~alpha-BH~~C NC	13.37	1605	9394	.284	ng/ml	100
3)	#~~beta-BHC~~ NC	18.68	2241	6309	.248	ng/ml	100
9)	#~~Endosulfan~~ I NC	21.68	2601	51379	1.45	ng/ml	100
16)	#~~4,4'-DDT~~ NC	27.48	3297	6046	.356	ng/ml	100
18)	#~~Endrin ketone~~ ND	32.99	3958	83084	2.51	ng/ml	100
19)	#Decachlorobiphenyl	38.72	4646	962791	20.48	ng/ml	100
24)	#~~Aroclor-1221(~~1) ND	7.54	905	38146	35.78	ng/ml	100
25)	#~~Aroclor-1232~~(1) ND	7.54	905	38146	21.67	ng/ml	100
33)	#~~Toxaphene(4~~) ND	31.87	3824	43985	87.52	ng/ml	100
37)	#~~Aroclor-1016(5~~) ND	18.48	2218	12062	6.10	ng/ml	100
48)	#~~Aroclor-1248(3~~) ND	18.48	2218	12062	5.39	ng/ml	100
58)	#~~Aroclor-1260(5~~) ND	31.87	3824	28198	10.57	ng/ml	100

Compound uses ESTD

EPMW
8/8/94

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK09

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: PIBLK09

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03542

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

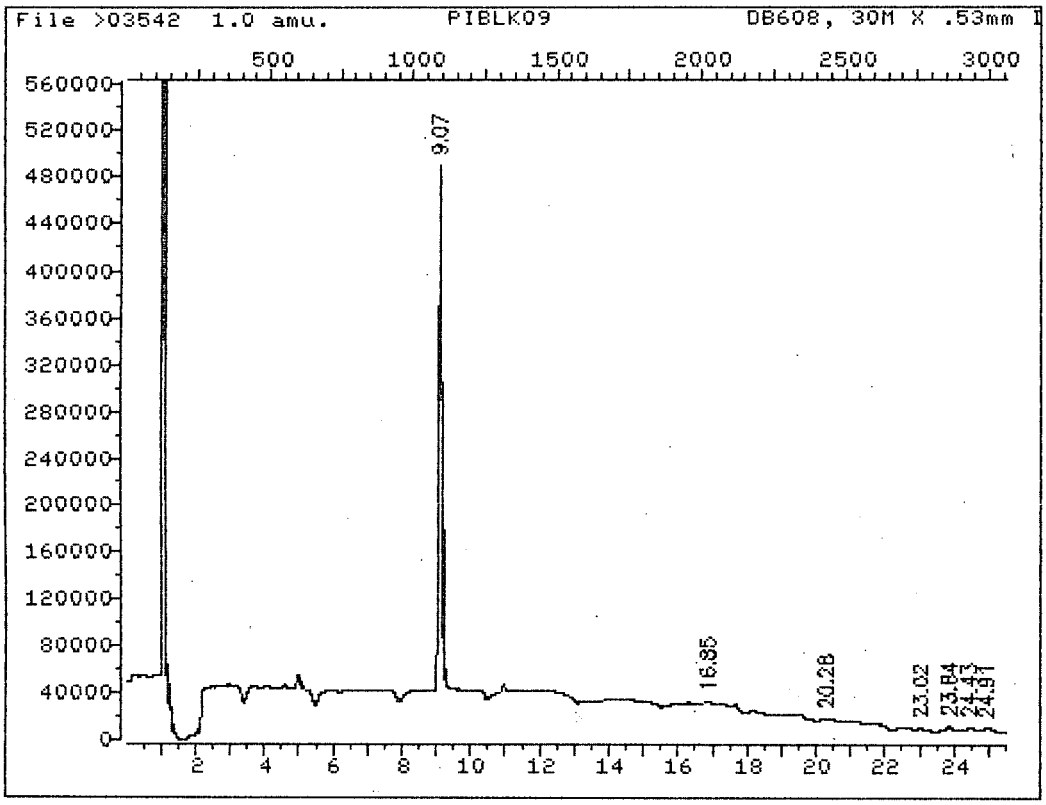
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/28/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U



Data File: >03542::G2 Quant Output File: ^03542::GQ
Name: PIBLK09 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960728 09:56
Injected at: 960728 09:03

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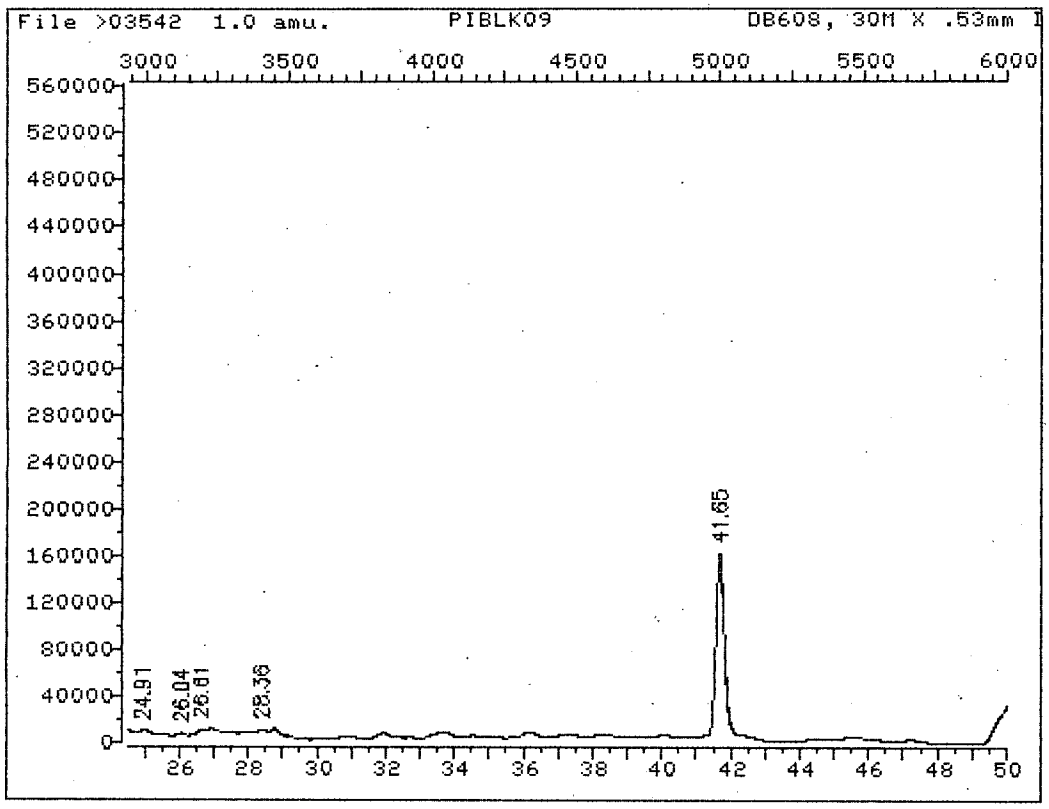

Data File: >03542::G2 Quant Output File: ^03542::GQ
Name: PIBLK09 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960728 09:56
Injected at: 960728 09:03

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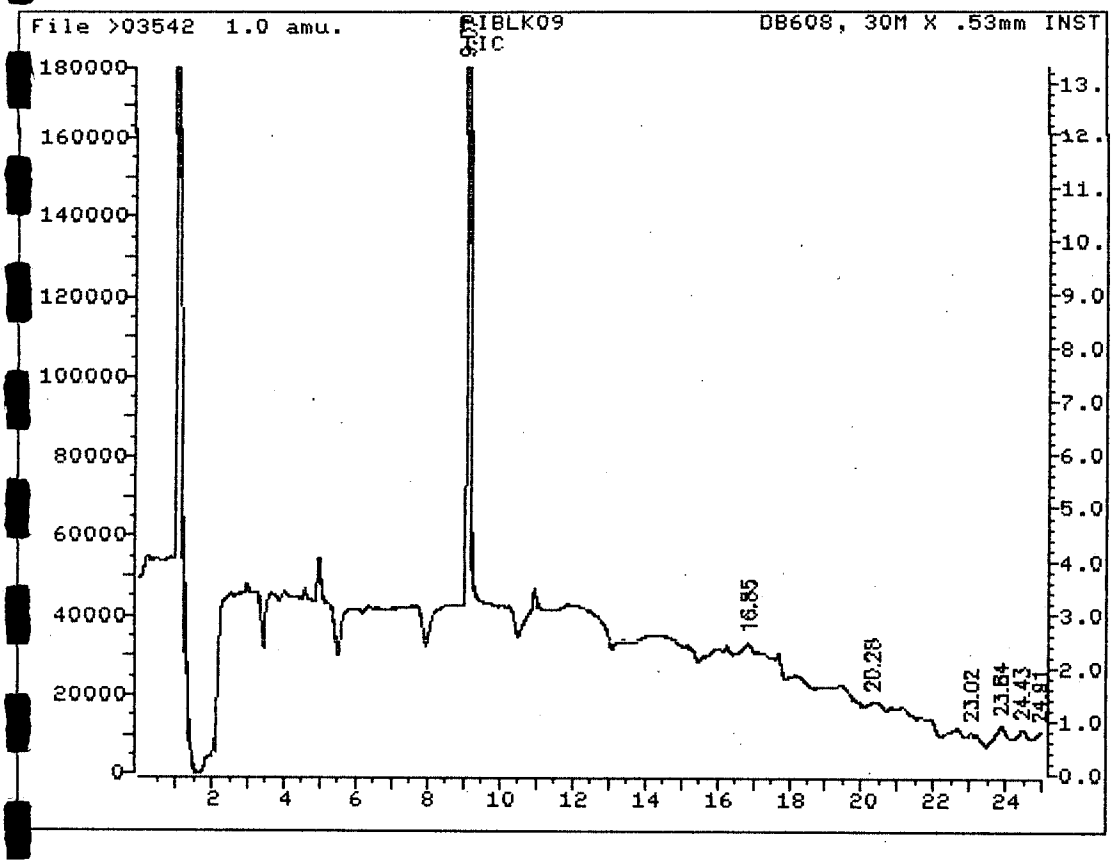
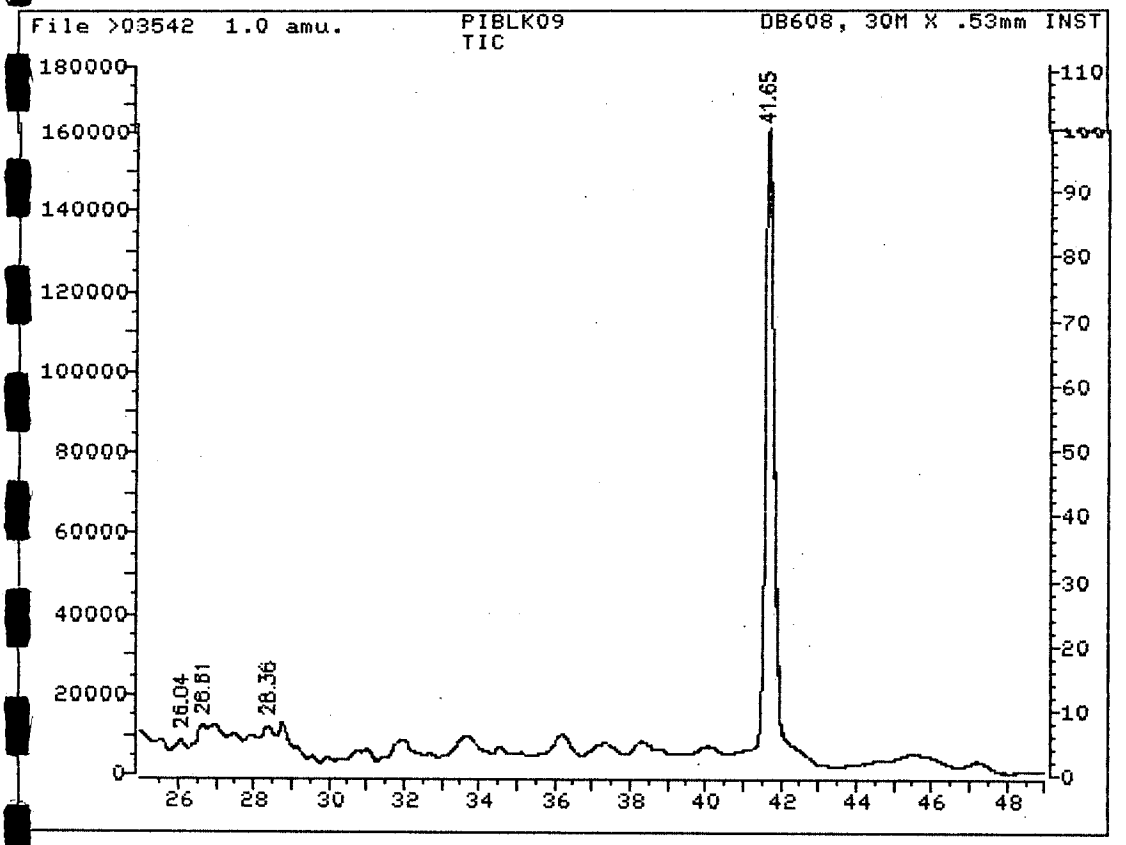


MS data file header from : >03542::G2

Sample: PIBLK09 Operator: TRFI2 7/28/96 9:03
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03542::G2

Sample: PIBLK09 Operator: TRFI2 7/28/96 9:03
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

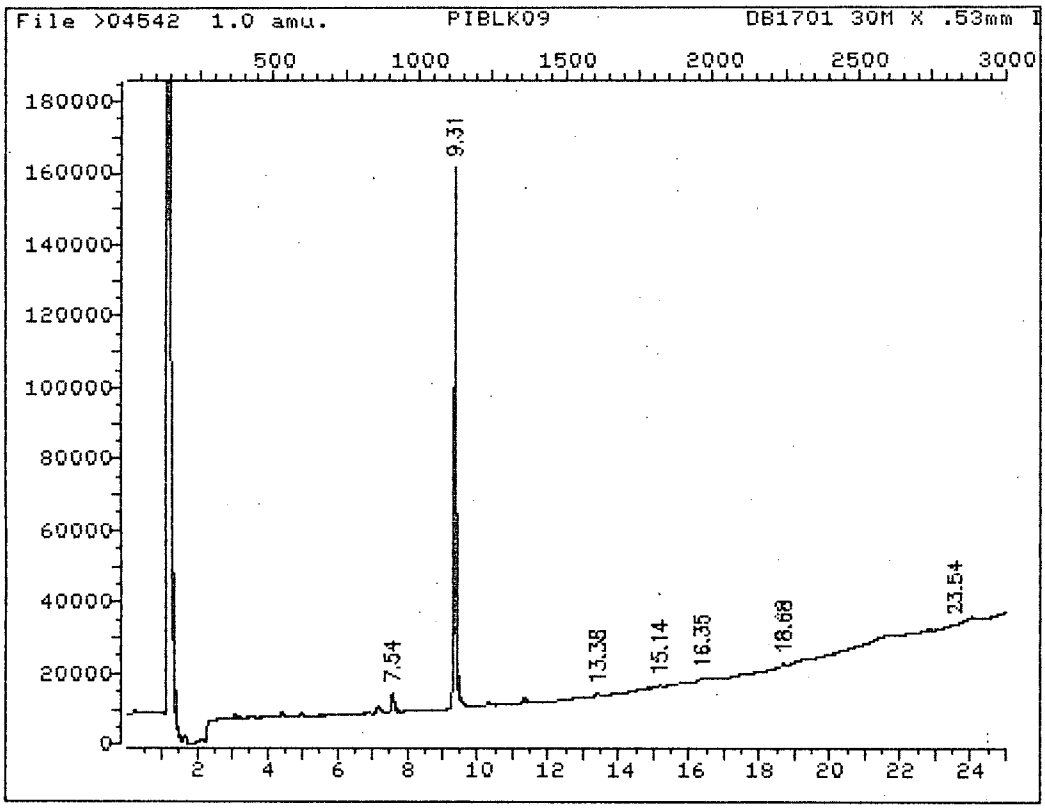
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960728 09:56
Output File: ^03542::GQ Injected at: 960728 09:03
Data File: >03542::G2 Dilution Factor: 1.00000
Name: PIBLK09 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	2567288	19.95	ng/ml	100
10)	~~#Dieldrin~~ NC	23.02	2762	5689	.0581	ng/ml	100
12)	~~#Endrin~~ OW	24.91	2989	11934	.134	ng/ml	100
14)	~~#4,4'-DDD~~ OW	26.04	3125	37931	.621	ng/ml	100
15)	~~#Endosulfan Sulfate~~ NC	28.36	3403	12703	.142	ng/ml	100
19)	#Decachlorobiphenyl	41.65	4998	2465156	20.69	ng/ml	100
22)	~~#Toxaphene(~~1) NP	23.84	2861	105701	64.45	ng/ml	100
29)	~~#Aroclor-1260(1~~) NP	24.43	2931	28308	4.55	ng/ml	100
32)	~~#Toxaphene(3~~) NP	28.36	3403	12703	5.92	ng/ml	100
36)	~~#Aroclor-1016~~(4) NP	16.85	2022	29362	7.69	ng/ml	100
42)	~~#Aroclor-1232~~(4) NP	16.85	2022	29362	17.33	ng/ml	100
45)	~~#Aroclor-1242~~(4) NP	16.85	2022	29362	8.80	ng/ml	100
49)	~~#Aroclor-1248(~~4) NP	20.28	2433	8037	2.07	ng/ml	100
52)	~~#Aroclor-1254(~~3) NP	23.02	2762	5689	1.89	ng/ml	100
54)	~~#Aroclor-1254(~~5) NP	24.91	2989	11934	3.30	ng/ml	100
55)	~~#Aroclor-1260(2~~) NP	24.91	2989	11934	1.71	ng/ml	100
56)	~~#Aroclor-1260(3~~) ND	26.61	3193	31215	4.56	ng/ml	100

Compound uses ESTD

EPM
8/8/96



Data File: >04542::G5 Quant Output File: ^04542::GQ
Name: PIBLK09 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960728 09:54
Injected at: 960728 09:03

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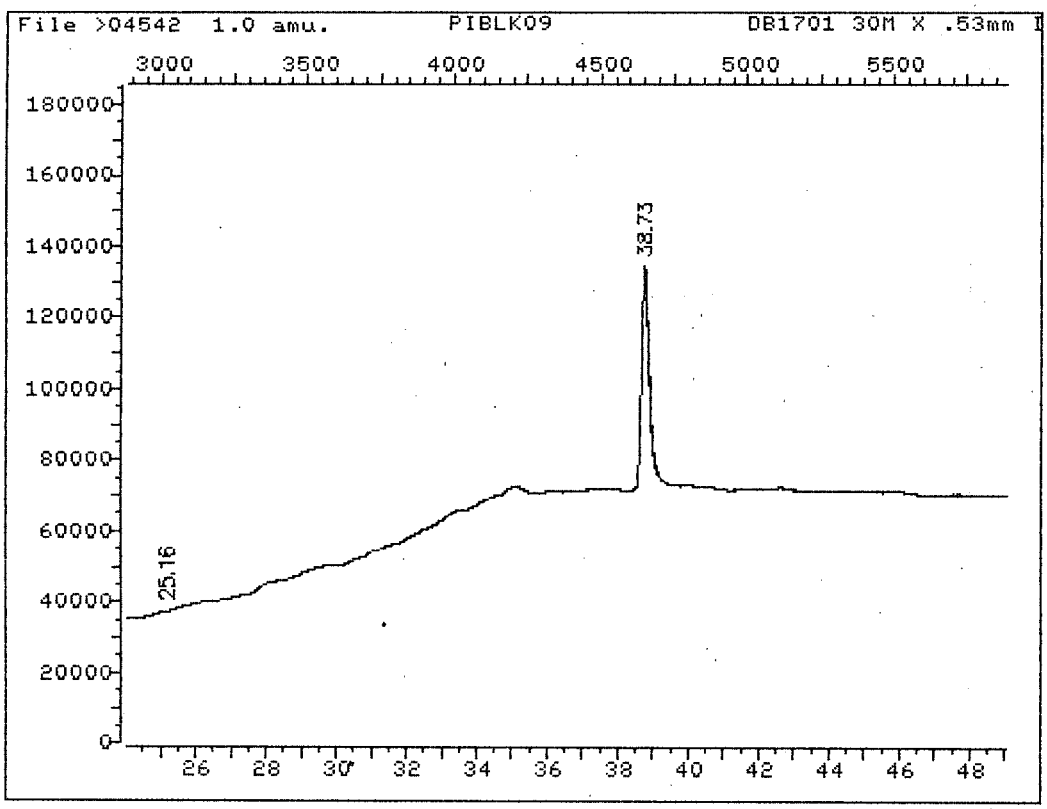
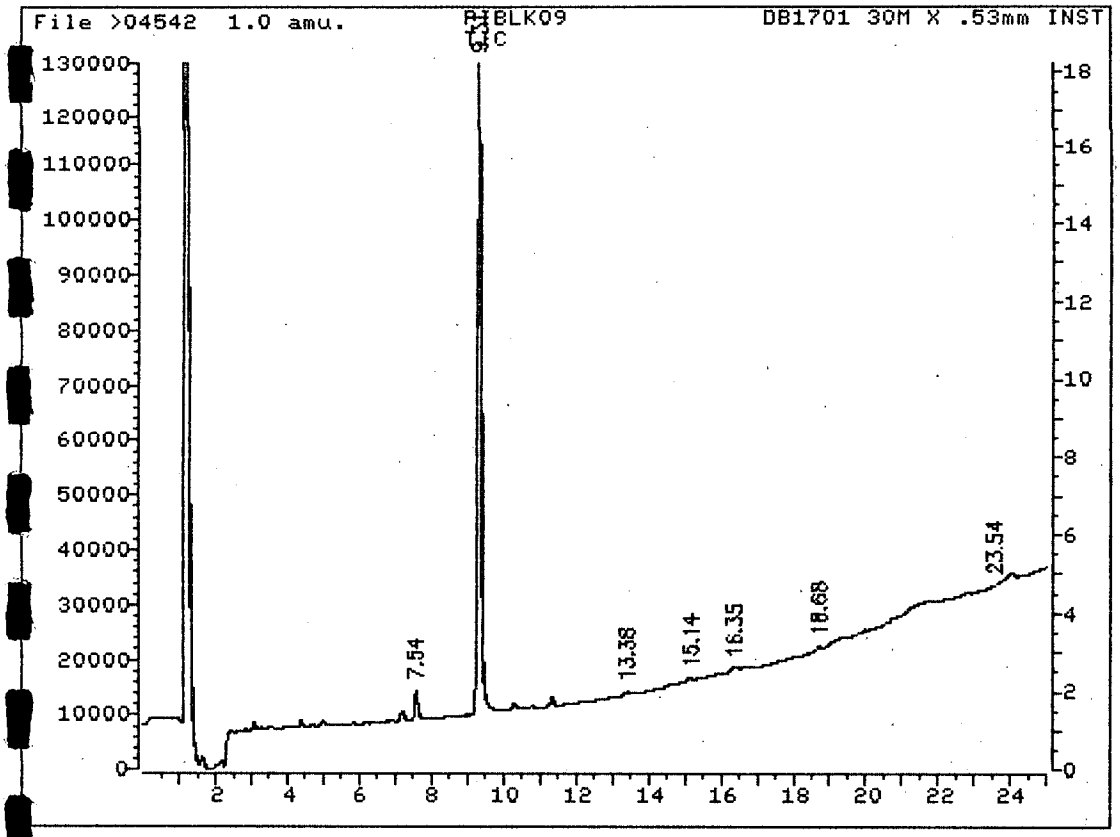


Data File: >04542::G5 Quant Output File: ^04542::GQ
Name: PIBLK09 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960728 09:54
Injected at: 960728 09:03

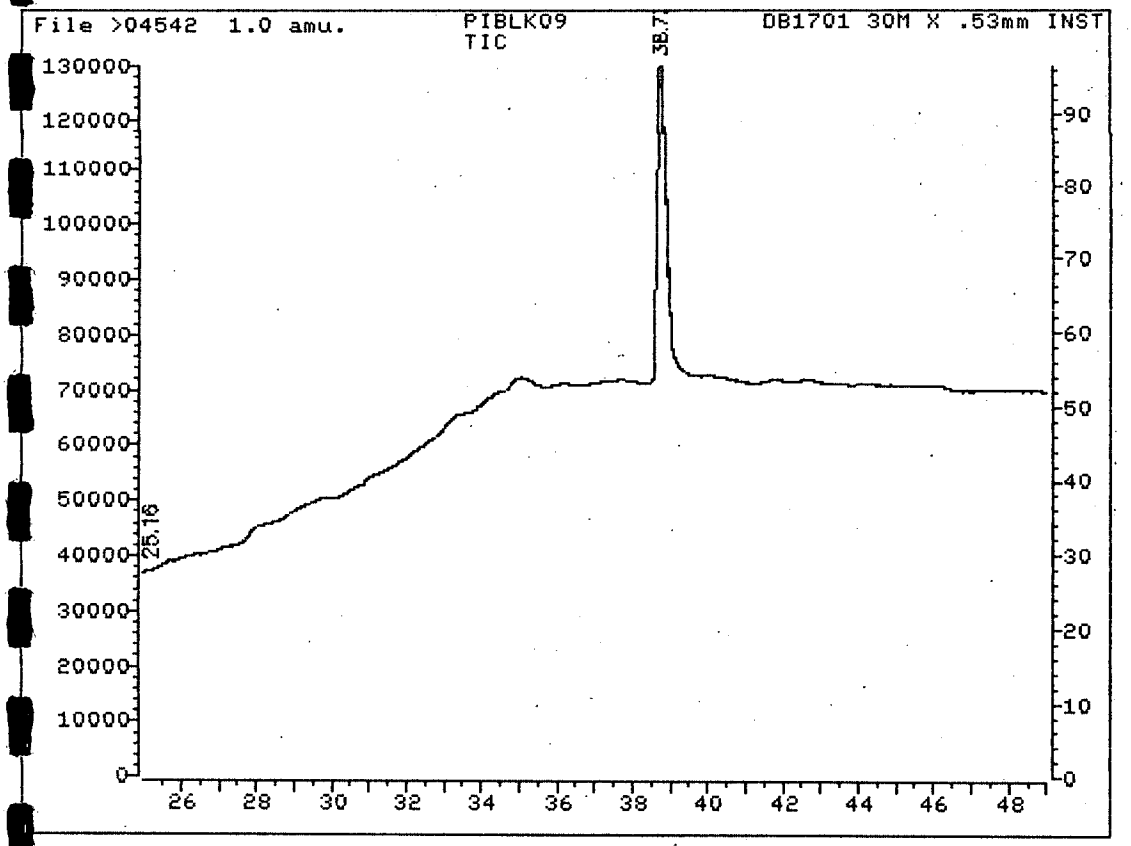
Page 2 of 2



MS data file header from : >04542::G5

Sample: PIBLK09 Operator: TRFI2 7/28/96 9:03
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04542::G5

Sample: PIBLK09 Operator: TRFI2 7/28/96 9:03
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960728 09:54
Output File: ^04542::GQ Injected at: 960728 09:03
Data File: >04542::G5 Dilution Factor: 1.00000
Name: PIBLK09 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	857160	19.27	ng/ml	100
2)	~~#alpha-BHC~~ NC	13.38	1606	8633	.261	ng/ml	100
3)	~~#beta-BHC~~ OW	18.68	2241	6065	.238	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~ OW	15.14	1817	5253	.150	ng/ml	100
6)	~~#Heptachlor~~ OW	16.35	1962	6581	.138	ng/ml	100
10)	~~#Dieldrin~~ OW	23.54	2825	8797	.271	ng/ml	100
19)	#Decachlorobiphenyl	38.73	4647	968934	20.61	ng/ml	100
22)	~~#Toxaphene(1)~~ ND	25.16	3019	17203	31.69	ng/ml	100
24)	~~#Aroclor-1221(1)~~ ND	7.54	905	29111	27.31	ng/ml	100
25)	~~#Aroclor-1232(1)~~ ND	7.54	905	29111	16.54	ng/ml	100
36)	~~#Aroclor-1016~~(4) ND	16.35	1962	7961	5.34	ng/ml	100
37)	~~#Aroclor-1016(5)~~ ND	18.68	2241	6065	3.07	ng/ml	100
45)	~~#Aroclor-1242(4)~~ ND	16.35	1962	7961	7.03	ng/ml	100
48)	~~#Aroclor-1248(3)~~ ND	18.68	2241	6065	2.71	ng/ml	100

Compound uses ESTD

EPrui
8/8/96

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK10

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: PIBLK10

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03549

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

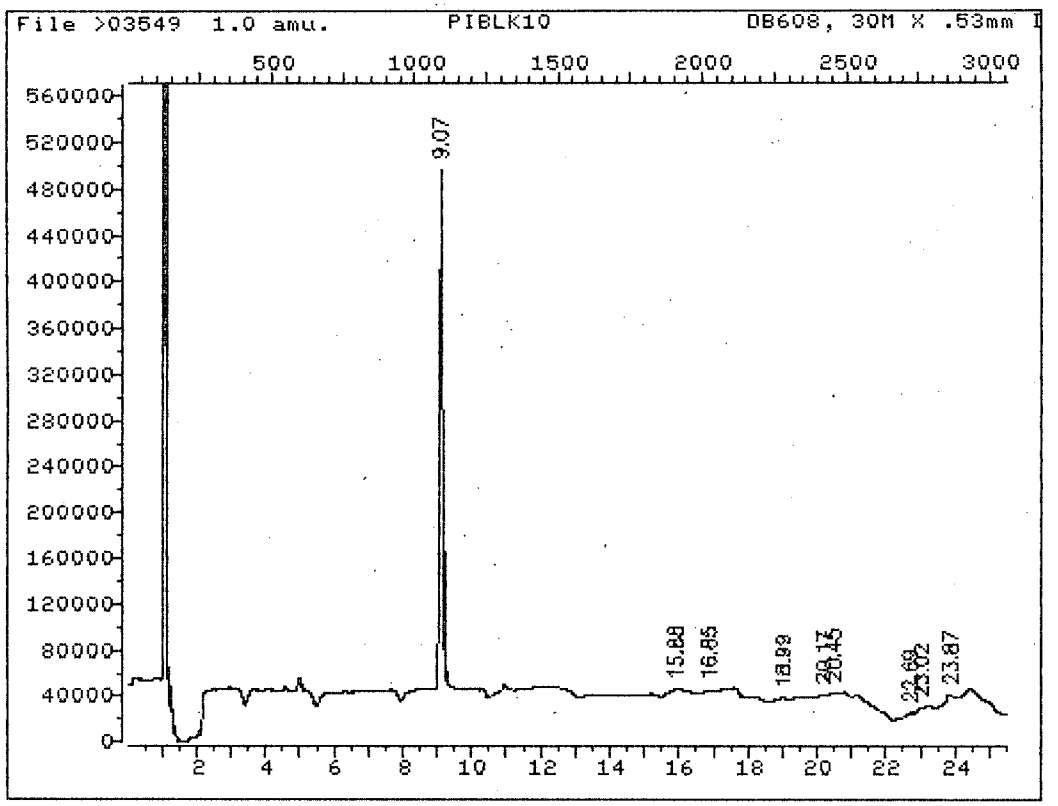
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/28/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

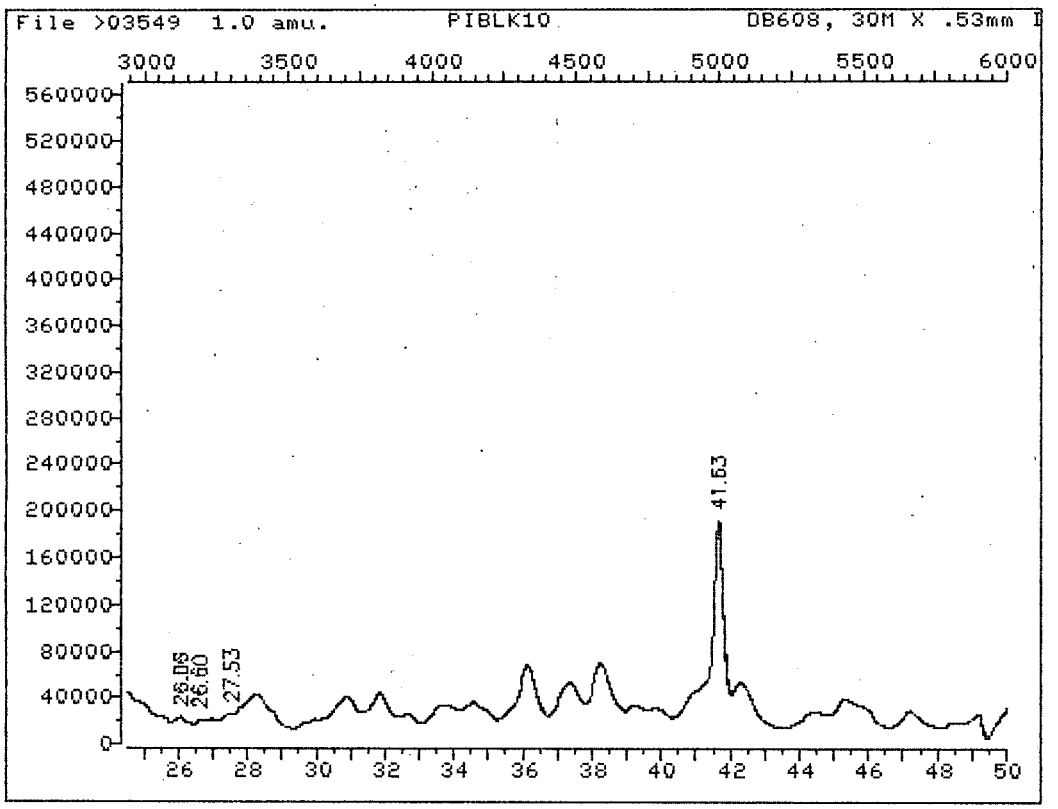


Data File: >03549::G2 Quant Output File: ^03549::GQ
Name: PIBLK10 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960728 16:21
Injected at: 960728 15:28

Page 1 of 2

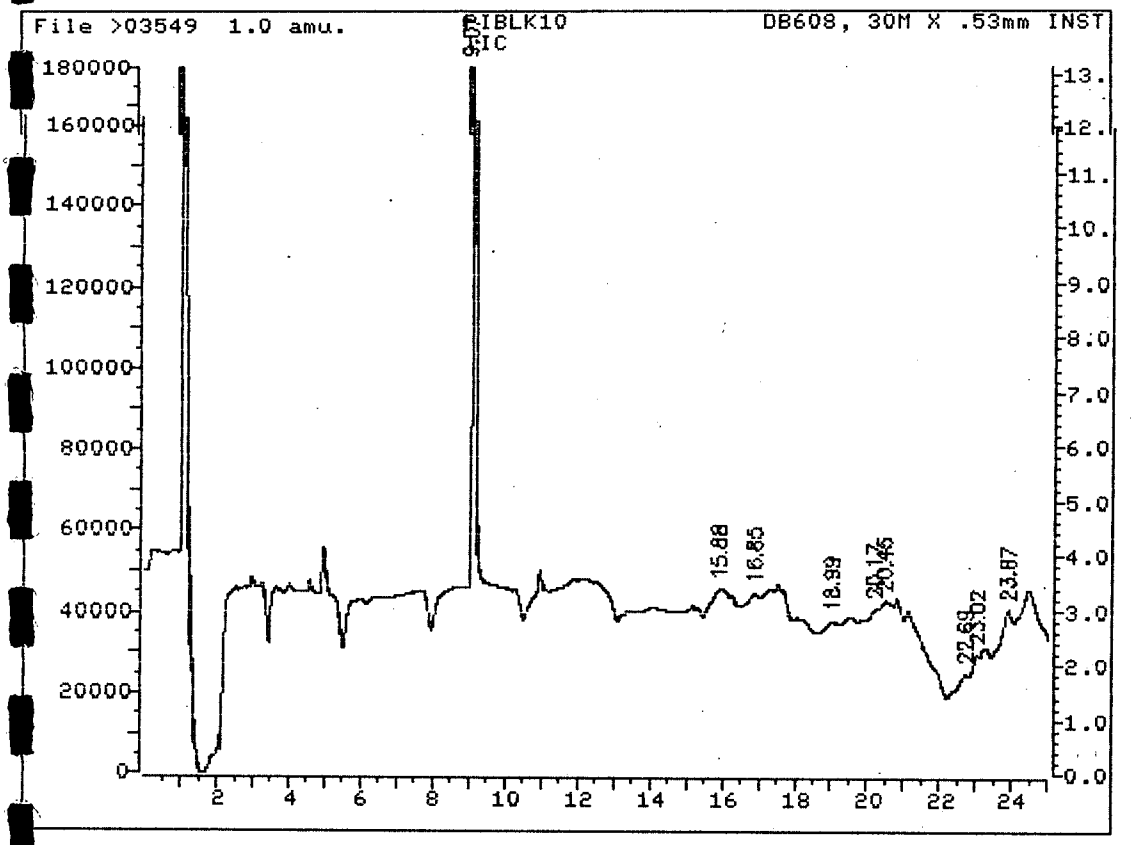


Data File: >03549::G2 Quant Output File: ^03549::GQ
Name: PIBLK10 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960728 16:21
Injected at: 960728 15:28

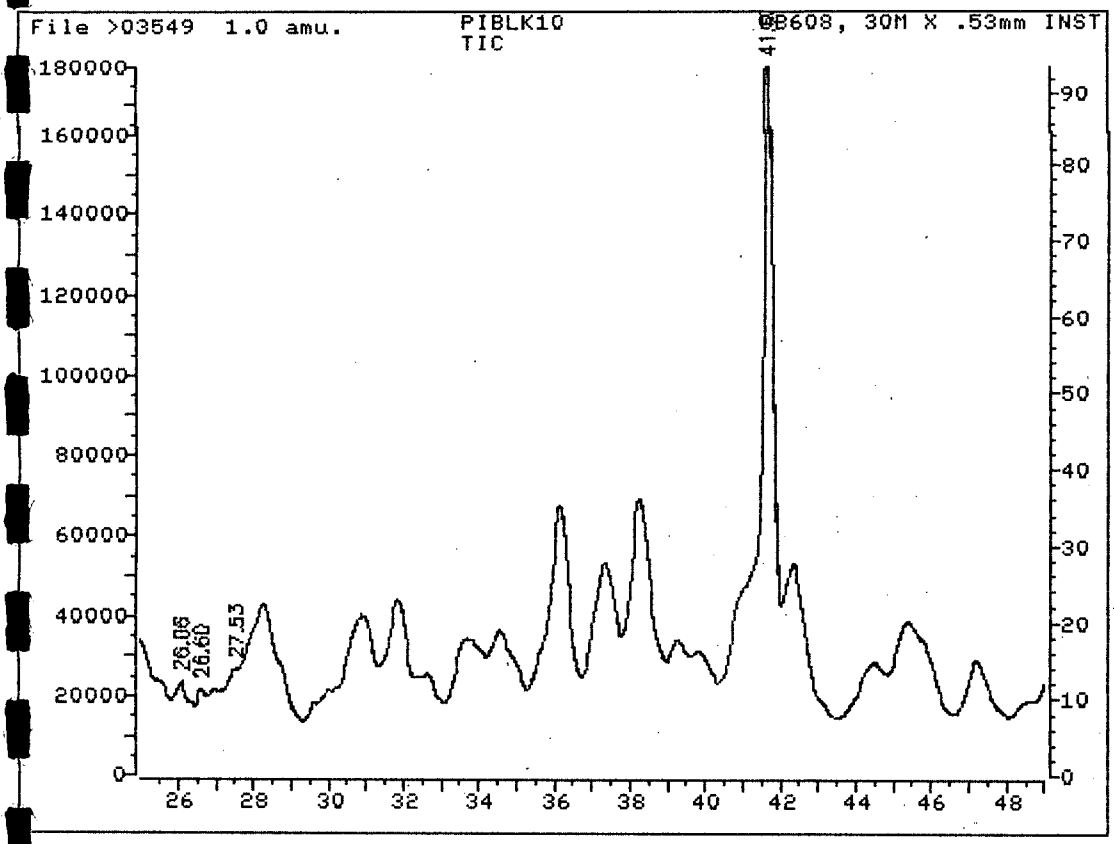
Page 2 of 2



MS data file header from : >03549::G2

Sample: PIBLK10 Operator: TRFI2 7/28/96 15:28
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03549::G2

Sample: PIBLK10 Operator: TRFI2 7/28/96 15:28
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

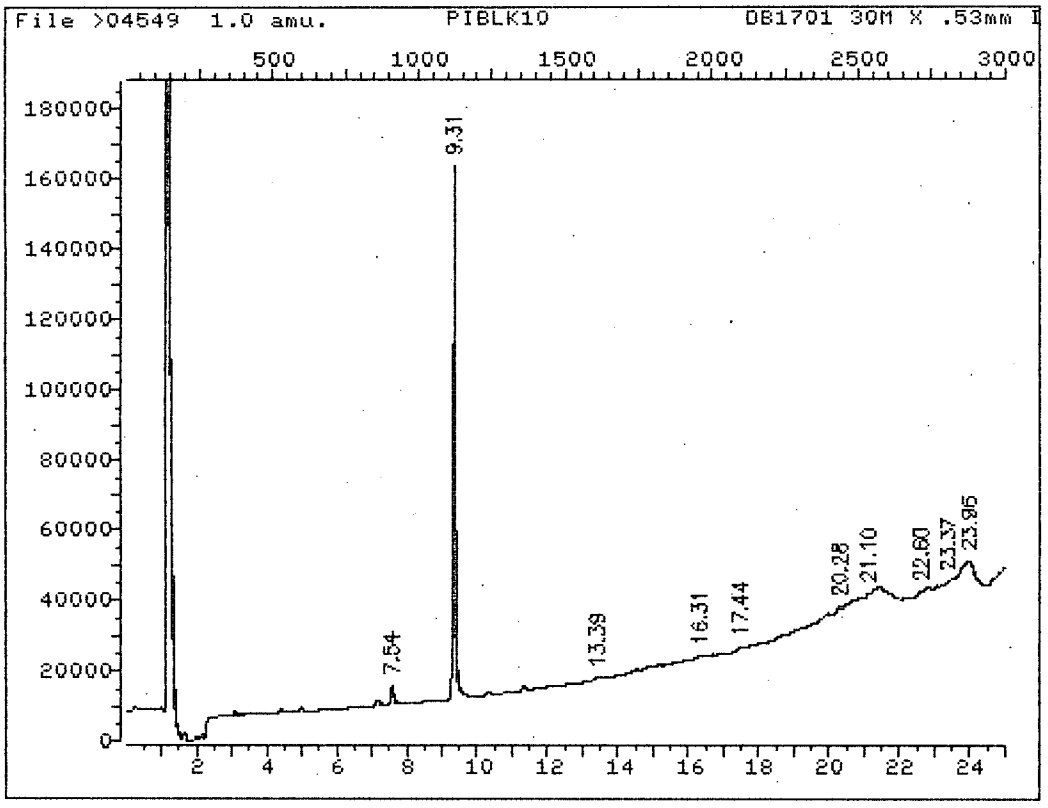
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960728 16:21
Output File: ^03549::GQ Injected at: 960728 15:28
Data File: >03549::G2 Dilution Factor: 1.00000
Name: PIBLK10 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	2567684	19.96	ng/ml	100
6)	~~#Heptachlor~~ < 1/2 CRQL	15.88	1906	94835	.819	ng/ml	100
8)	~~#Heptachlor epoxide~~ OW	20.17	2420	16655	.129	ng/ml	100
10)	~~#Dieldrin~~ < 1/2 CRQL	23.02	2762	30545	.312	ng/ml	100
11)	~~#4,4'-DDE~~ OW	22.69	2723	40661	.425	ng/ml	100
14)	~~#4,4'-DDD~~ OW	26.06	3127	65521	1.07	ng/ml	100
19)	#Decachlorobiphenyl	41.63	4996	2489199	20.90	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.87	2864	157306	95.91	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	15.88	1906	94835	12.87	ng/ml	100
30)	~~#Endrin aldehyde~~ NC	27.53	3303	72559	.890	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.53	3303	72559	44.00	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	15.88	1906	94835	8.54	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.85	2022	47178	12.35	ng/ml	100
37)	~~#Aroclor-1016(5)~~ NP	18.99	2279	44858	13.35	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	15.88	1906	94835	20.77	ng/ml	100
42)	~~#Aroclor-1232(4)~~ NP	16.85	2022	47178	27.84	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	15.88	1906	94835	10.78	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.85	2022	47178	14.14	ng/ml	100
46)	~~#Aroclor-1242(5)~~ NP	18.99	2279	44858	15.64	ng/ml	100
48)	~~#Aroclor-1248(3)~~ NP	18.99	2279	44858	11.60	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	20.45	2454	11706	3.02	ng/ml	100
52)	~~#Aroclor-1254(3)~~ NP	23.02	2762	30545	10.15	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	26.60	3192	57095	8.35	ng/ml	100

Compound uses ESTD

EPma
8/8/96



Data File: >04549::G5 Quant Output File: ^04549::GQ
Name: PIBLK10 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960728 16:19
Injected at: 960728 15:28

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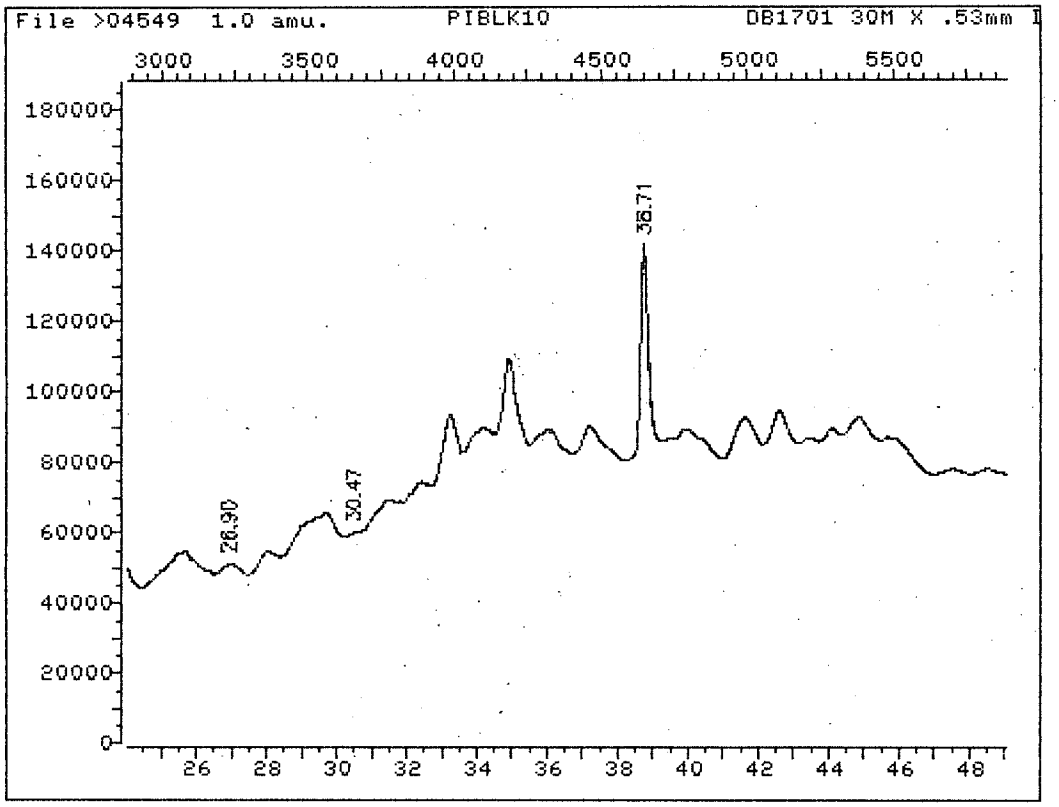
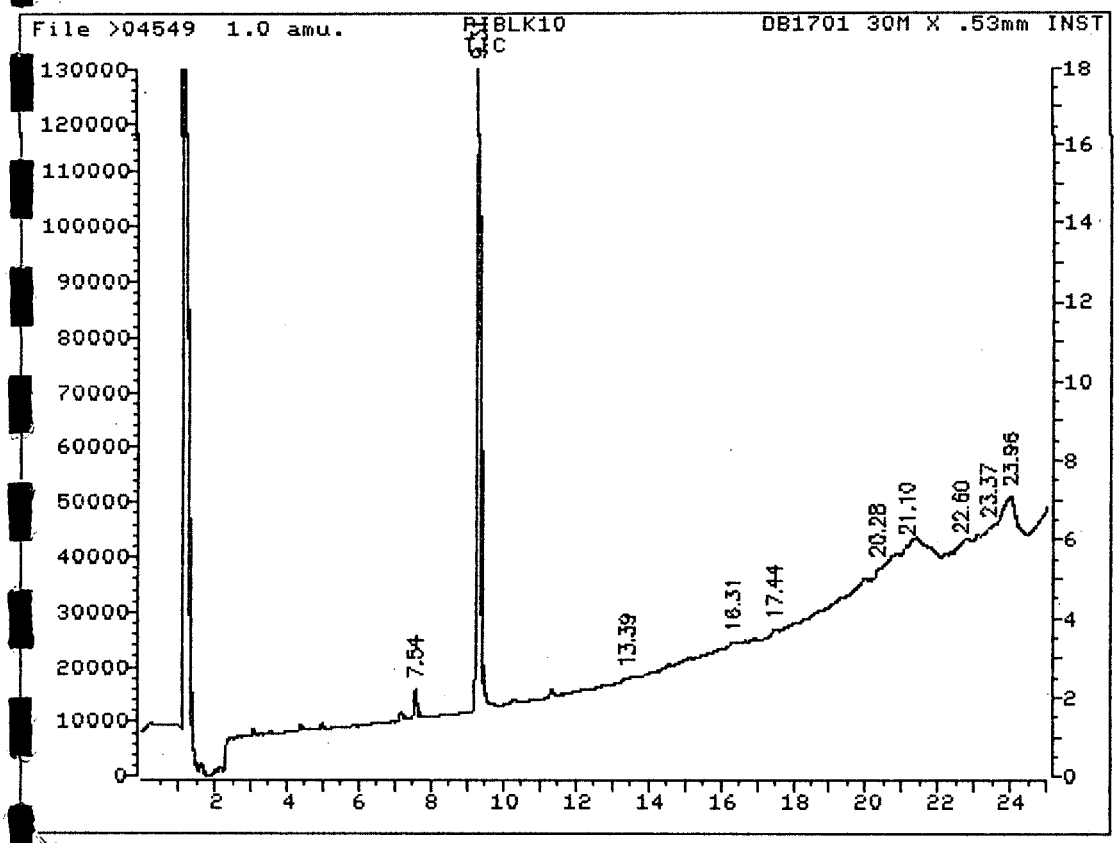


Data File: >04549::G5 Quant Output File: ^04549::GQ
Name: PIBLK10 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960728 16:19
Injected at: 960728 15:28

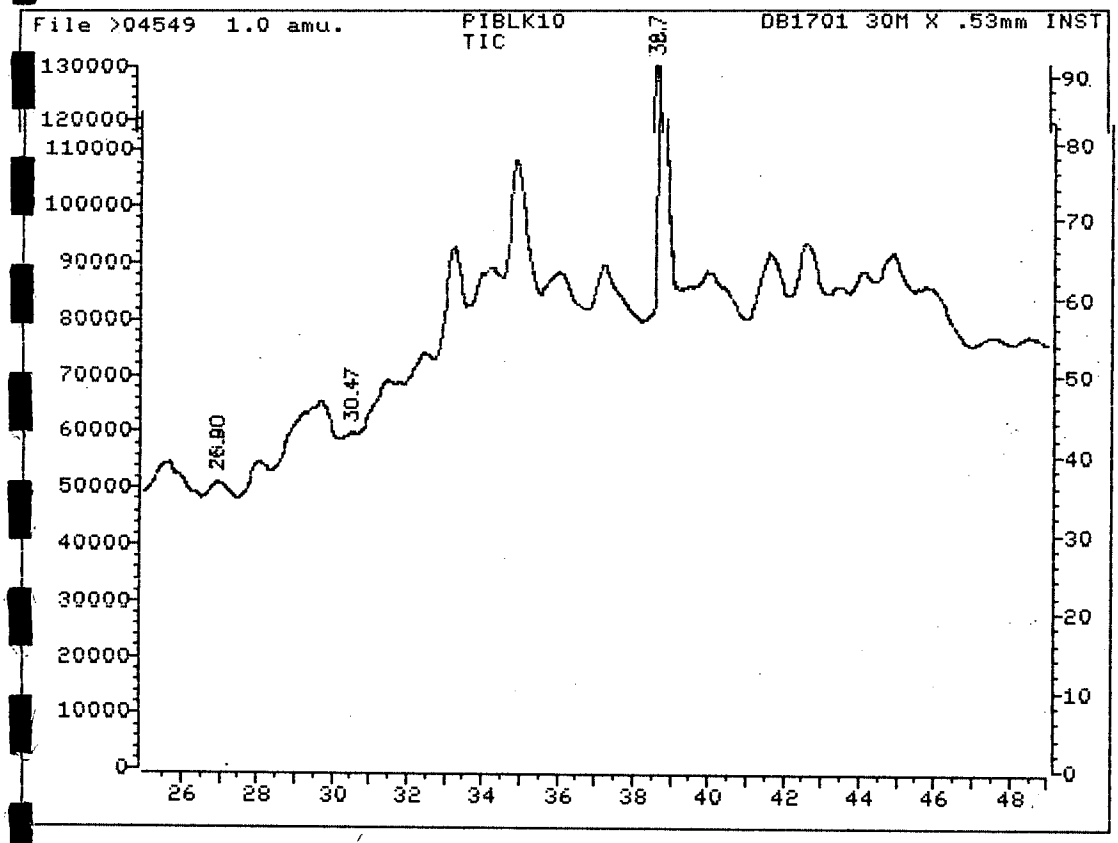
Page 2 of 2



MS data file header from : >04549::G5

Sample: PIBLK10 Operator: TRFI2 7/28/96 15:28
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04549::G5

Sample: PIBLK10 Operator: TRFI2 7/28/96 15:28
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960728 16:19
Output File: ^04549::GQ Injected at: 960728 15:28
Data File: >04549::G5 Dilution Factor: 1.00000
Name: PIBLK10 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	843938	18.97	ng/ml	100
2)	~~#alpha-BHC~~ OWNC	13.39	1607	7156	.217	ng/ml	100
6)	~~#Heptachlor~~ < 1/2 CRQL	16.31	1957	5381	.112	ng/ml	100
7)	~~#Aldrin~~ OW	17.44	2093	12902	.334	ng/ml	100
10)	~~#Dieldrin~~ < 1/2 CRQL	23.37	2804	6101	.188	ng/ml	100
11)	~~#4,4' DDE~~ OW	22.60	2712	10481	.371	ng/ml	100
13)	~~#Endosulfan II~~ OW	26.90	3228	36327	1.03	ng/ml	100
15)	~~#Endosulfan Sulfate~~ OW	30.47	3656	8605	.317	ng/ml	100
19)	#Decachlorobiphenyl	38.71	4645	954409	20.30	ng/ml	100
24)	~~#Aroclor 1221(1)~~ ND	7.54	905	30306	28.43	ng/ml	100
25)	~~#Aroclor-1232(1)~~ ND	7.54	905	30306	17.22	ng/ml	100
28)	~~#Aroclor 1254(1)~~ ND	17.44	2093	10349	6.45	ng/ml	100
29)	~~#Aroclor 1260(1)~~ ND	23.96	2875	168319	69.62	ng/ml	100
32)	~~#Toxaphene(3)~~ ND	30.47	3656	8605	16.36	ng/ml	100
46)	~~#Aroclor-1242(5)~~ ND	17.44	2093	10349	12.59	ng/ml	100
50)	~~#Aroclor 1248(5)~~ ND	20.28	2434	16307	17.91	ng/ml	100
51)	~~#Aroclor 1254(2)~~ ND	20.28	2434	14986	7.49	ng/ml	100
52)	~~#Aroclor 1254(3)~~ ND	21.10	2532	8397	5.02	ng/ml	100
54)	~~#Aroclor-1254(5)~~ ND	23.96	2875	168319	114.44	ng/ml	100

Compound uses ESTD

EPma
8/8/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK11

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: PIBLK11

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03558

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

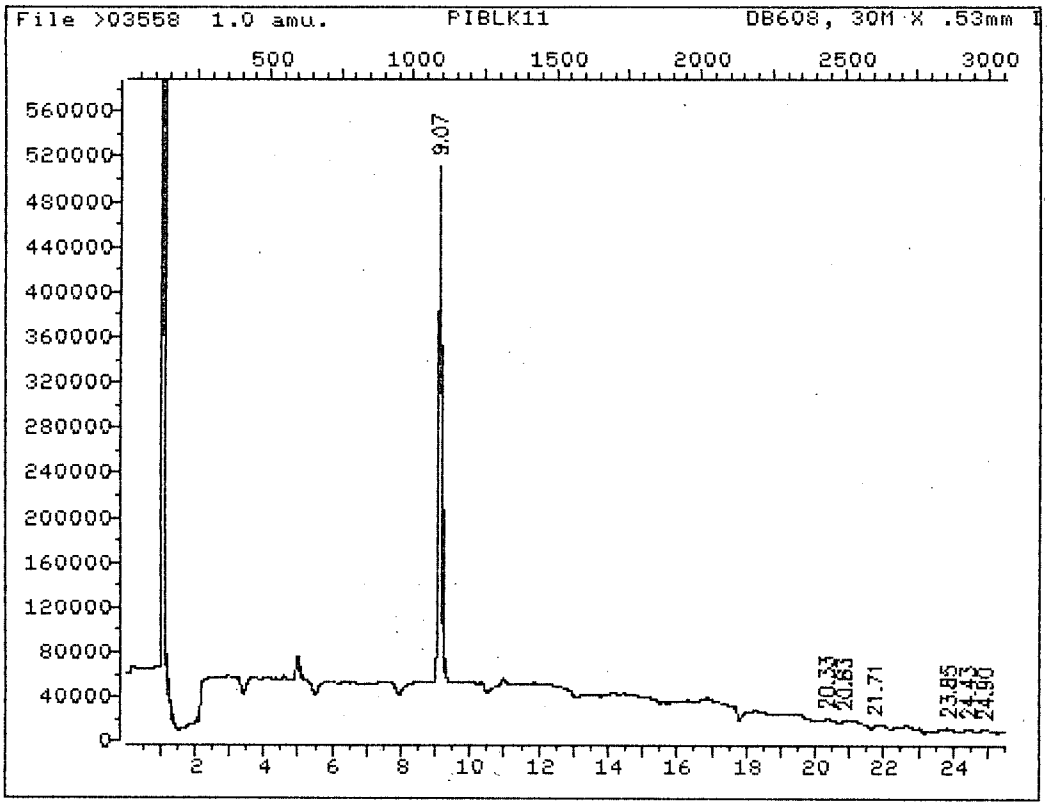
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/29/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

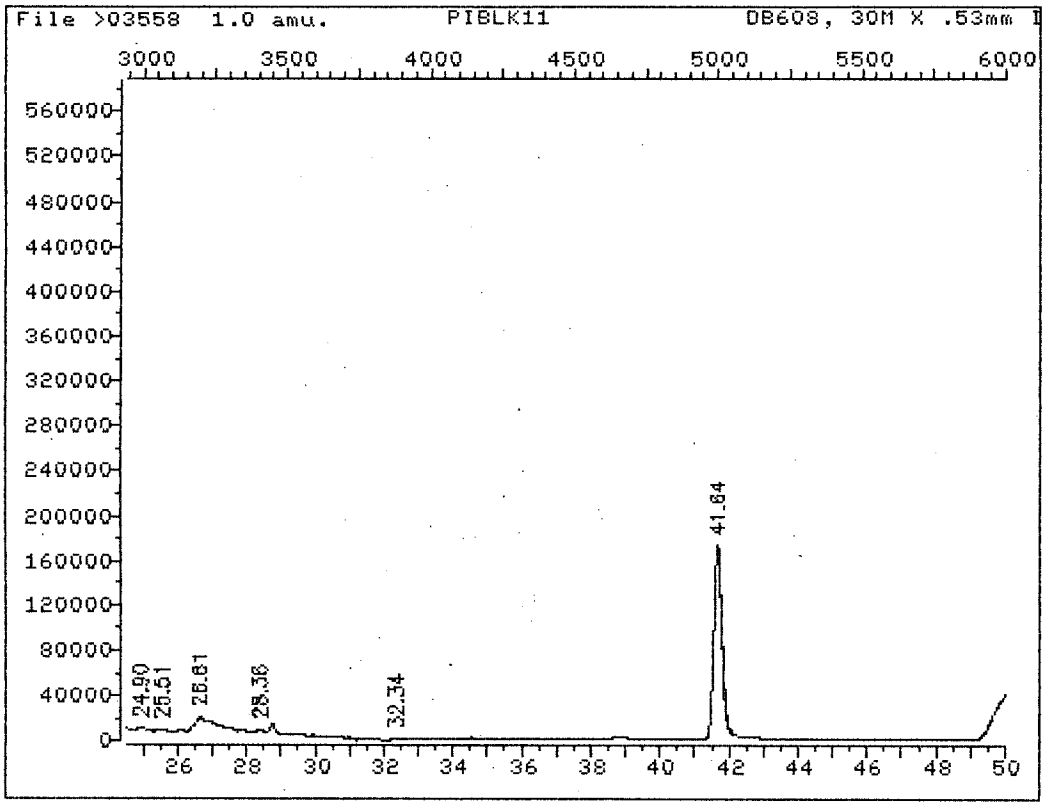


Data File: >03558::G2 Quant Output File: ^03558::GQ
Name: PIBLK11 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960729 17:55
Injected at: 960729 17:02

Page 1 of 2



Data File: >03558::G2 Quant Output File: ^03558::GQ
Name: PIBLK11 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960729 17:55
Injected at: 960729 17:02

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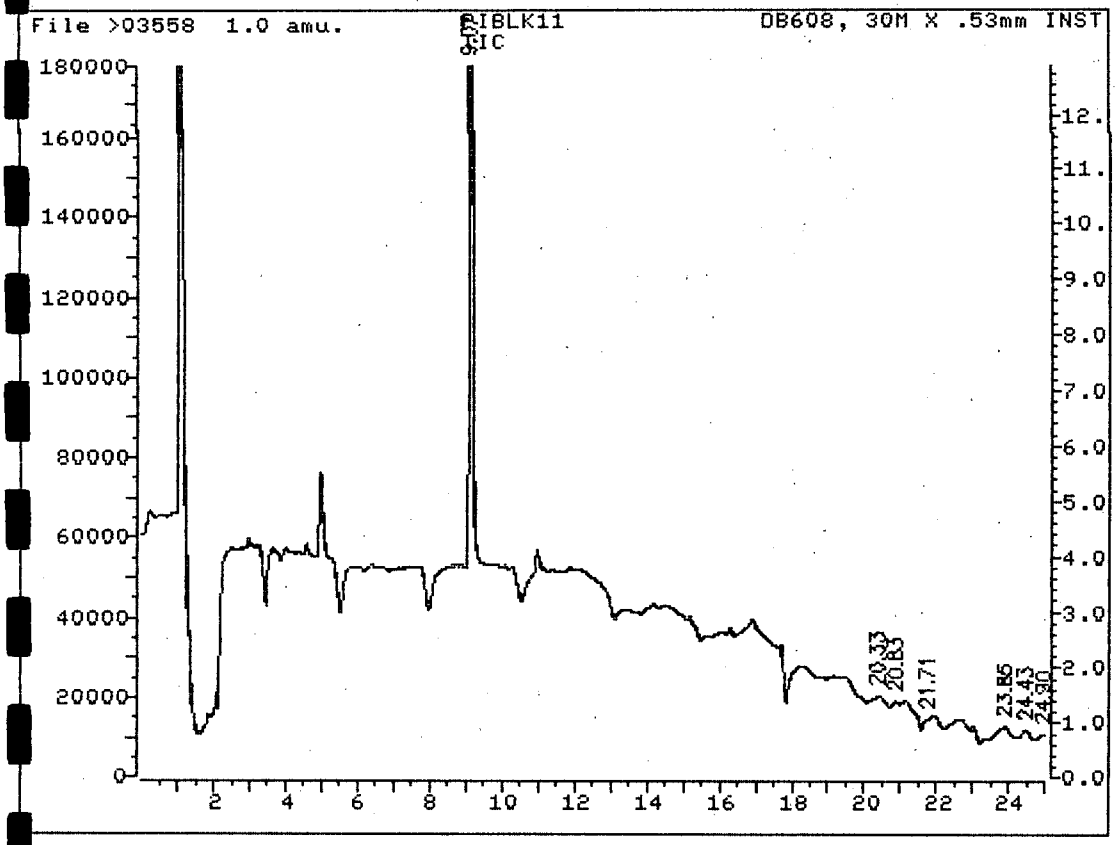
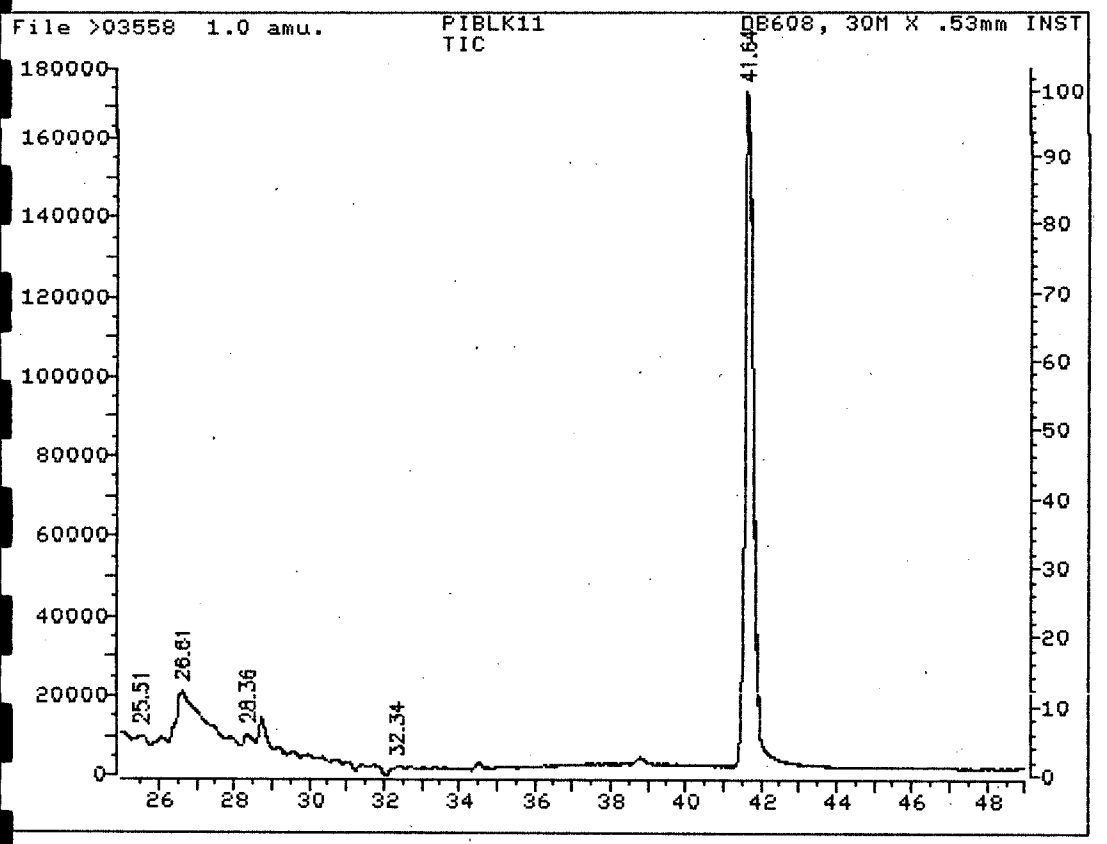


MS data file header from : >03558::G2

Sample: PIBLK11 Operator: TRFI2 7/29/96 17:02
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03558::G2

Sample: PIBLK11 Operator: TRFI2 7/29/96 17:02
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

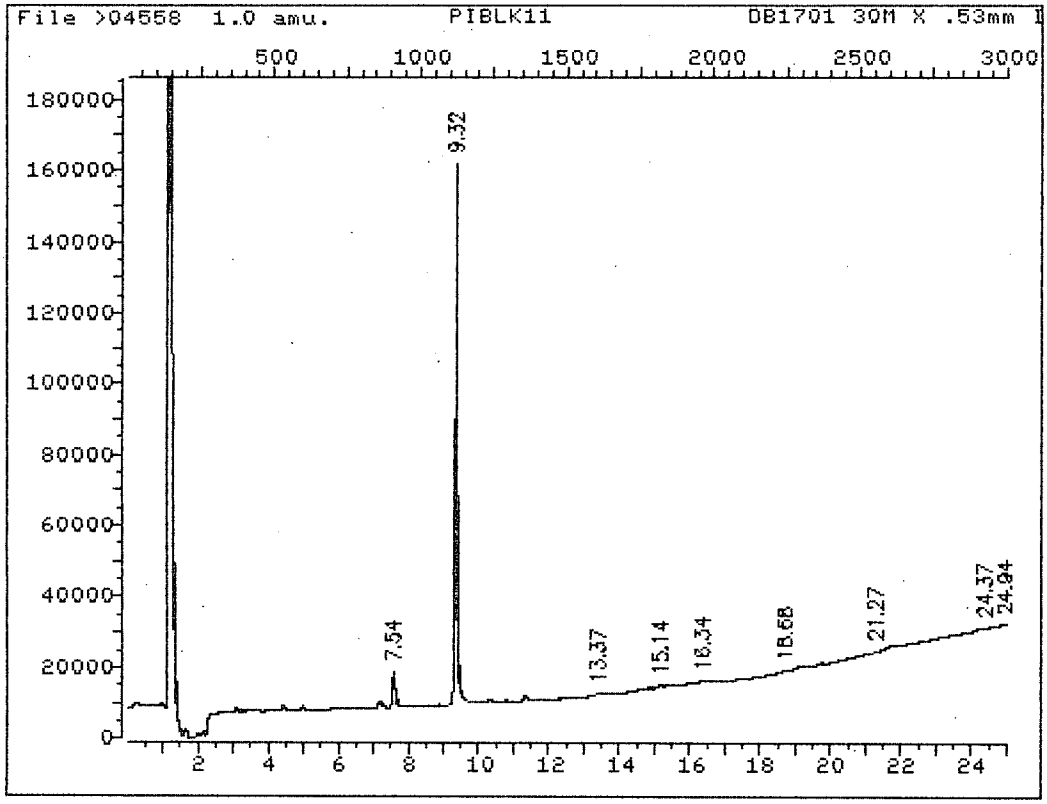
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960729 17:55
Output File: ^03558::GQ Injected at: 960729 17:02
Data File: >03558::G2 Dilution Factor: 1.00000
Name: PIBLK11 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1089	2627924	20.42	ng/ml	100
9)	~~#Endosulfan~~ I OW	21.71	2605	21531	.198	ng/ml	100
12)	~~#Endrin~~ OW	24.90	2988	13048	.146	ng/ml	100
14)	~~#4,4'-DDD~~ OW	25.51	3061	42585	.697	ng/ml	100
15)	~~#Endosulfan Sulfate~~ NC	28.36	3403	37054	.415	ng/ml	100
17)	~~#Methoxychlor~~ OW	32.34	3880	27280	.694	ng/ml	100
19)	#Decachlorobiphenyl	41.64	4997	2654246	22.28	ng/ml	100
21)	~~#gamma-Chlordane~~ NC	20.83	2500	9130	.0720	ng/ml	100
22)	~~#Toxaphene(1)~~ ND	23.85	2862	73308	44.70	ng/ml	100
29)	~~#Aroclor-1260(1)~~ ND	24.43	2931	30967	4.98	ng/ml	100
32)	~~#Toxaphene(3)~~ ND	28.36	3403	37054	17.27	ng/ml	100
49)	~~#Aroclor-1248(4)~~ ND	20.33	2439	17099	4.41	ng/ml	100
50)	~~#Aroclor-1248(5)~~ ND	21.71	2605	21531	5.25	ng/ml	100
54)	~~#Aroclor-1254(5)~~ ND	24.90	2988	13048	3.60	ng/ml	100
55)	~~#Aroclor-1260(2)~~ ND	24.90	2988	13048	1.87	ng/ml	100
56)	~~#Aroclor-1260(3)~~ ND	26.61	3193	356496	52.11	ng/ml	100

Compound uses ESTD

EPM
8/8/96



Data File: >04558::G5 Quant Output File: ^04558::GQ
Name: PIBLK11 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960729 17:53
Injected at: 960729 17:02

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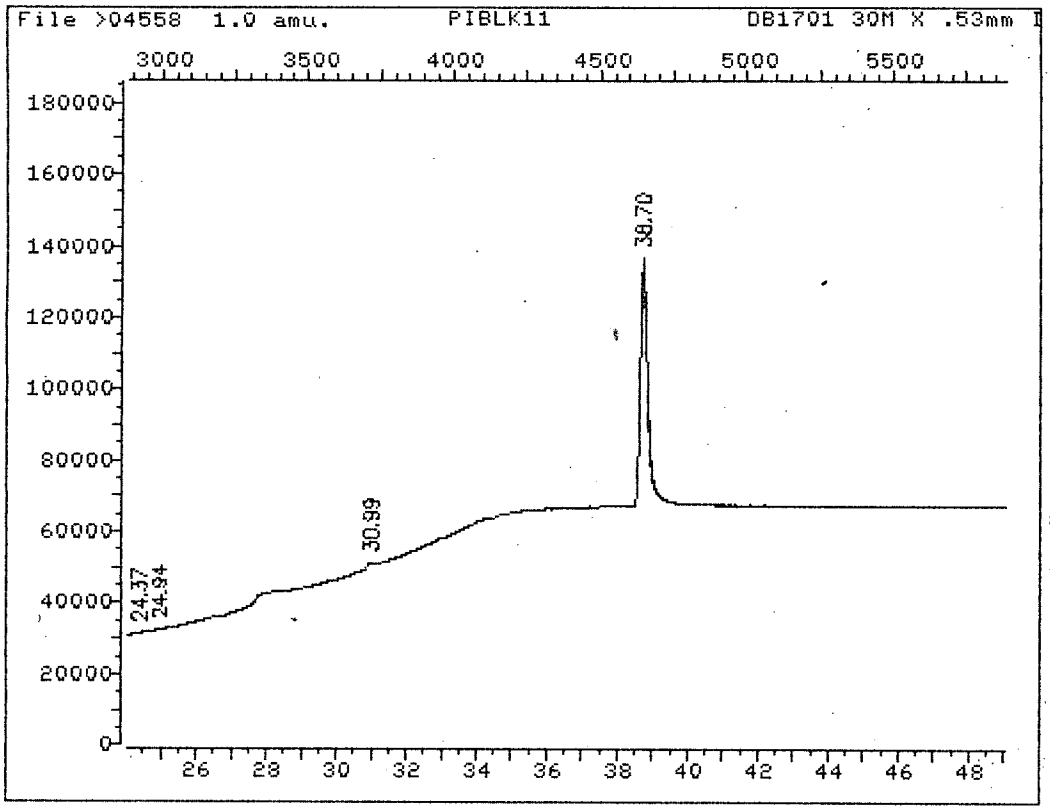

Data File: >04558::G5 Quant Output File: ^04558::GQ
Name: PIBLK11 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960729 17:53
Injected at: 960729 17:02

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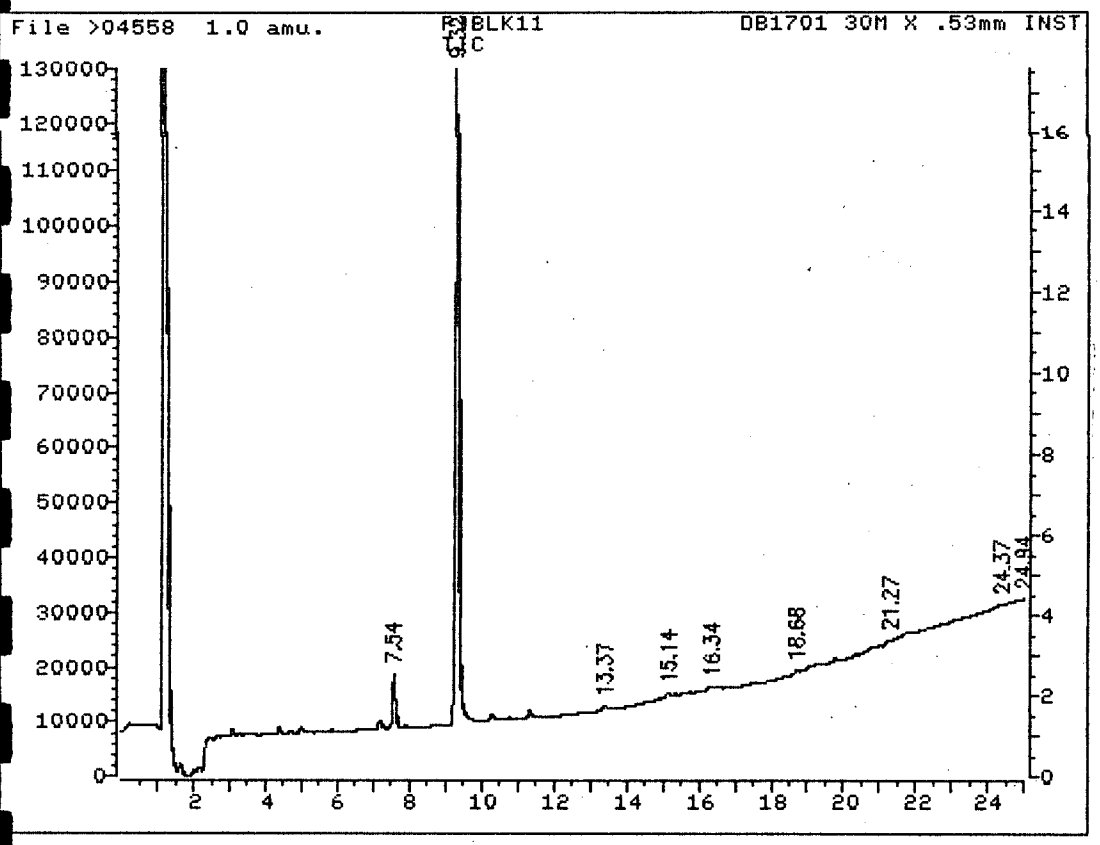
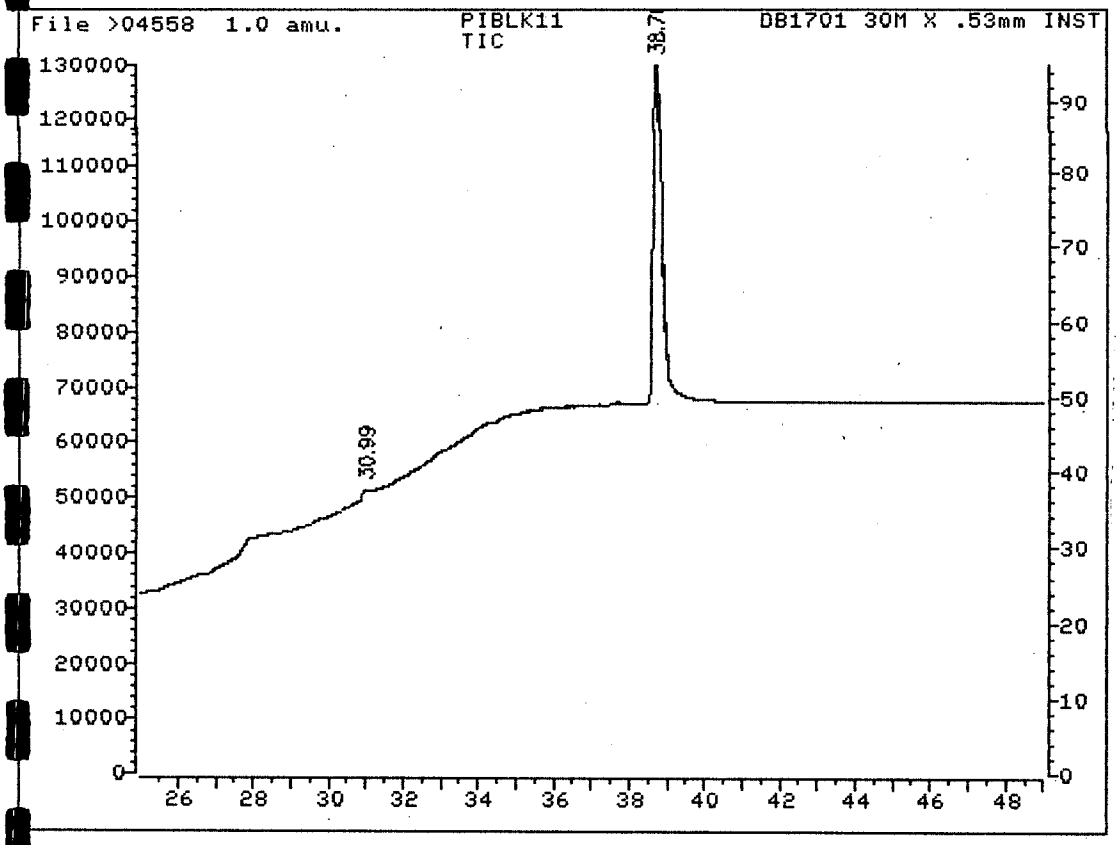


MS data file header from : >04558::G5

Sample: PIBLK11 Operator: TRFI2 7/29/96 17:02
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04558::G5

Sample: PIBLK11 Operator: TRFI2 7/29/96 17:02
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960729 17:53
Output File: ^04558::GQ Injected at: 960729 17:02
Data File: >04558::G5 Dilution Factor: 1.00000
Name: PIBLK11 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.32	1118	868198	19.51	ng/ml	100
2)	~~#alpha-BHC~~ NC	13.37	1605	10479	.317	ng/ml	100
3)	~~#beta-BHC~~ NC	18.68	2242	18832	.740	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~ NC	15.14	1817	7678	.219	ng/ml	100
6)	~~#Heptachlor~~ NC	16.34	1961	8708	.182	ng/ml	100
12)	~~#Endrin~~ NC	24.37	2924	12002	.405	ng/ml	100
17)	~~#Methoxychlor~~ OW	30.99	3718	89167	6.87	ng/ml	100
19)	#Decachlorobiphenyl	38.70	4644	988374	21.02	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.54	905	53277	49.98	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.54	905	53277	30.27	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.34	1961	10034	6.73	ng/ml	100
45)	~~#Aroclor-1242(4)~~ NP	16.34	1961	10034	8.86	ng/ml	100
52)	~~#Aroclor-1254(3)~~ NP	21.27	2552	5837	3.49	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.94	2993	6369	2.35	ng/ml	100

Compound uses ESTD

EPMa
8/8/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK12

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: PIBLK12

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03570

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

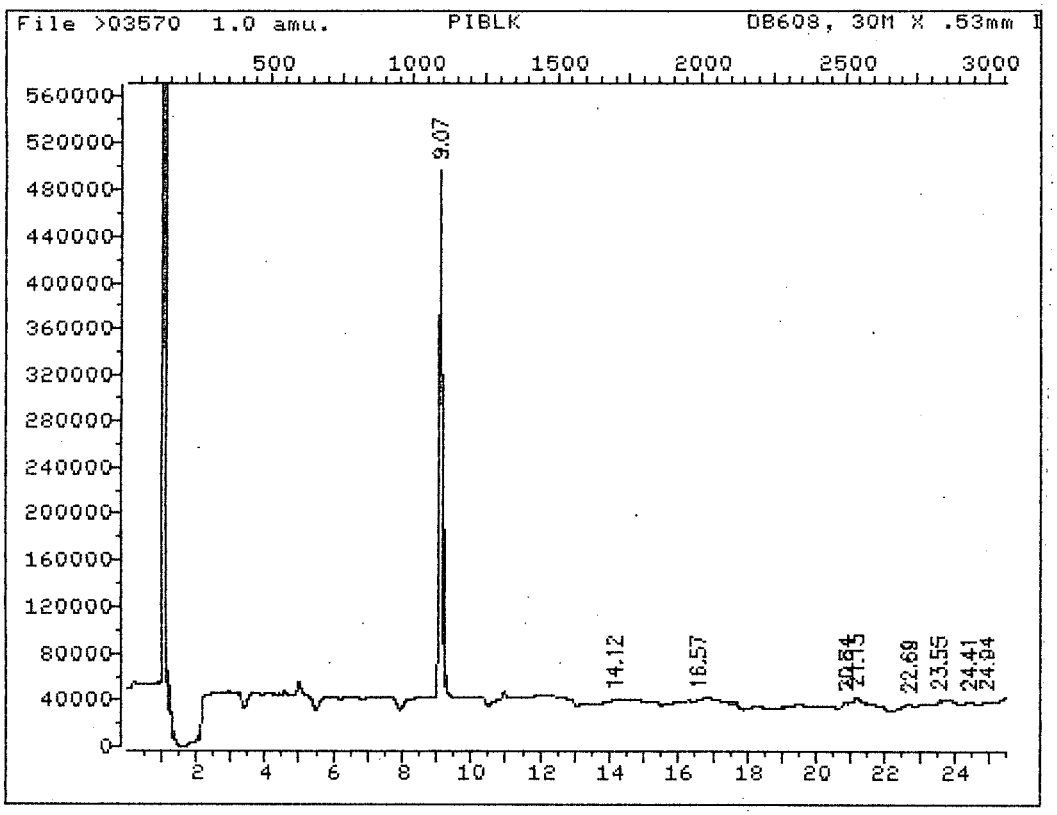
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/30/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U



Data File: >03570::G2 Quant Output File: ^03570::GQ
Name: PIBLK 12 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960730 11:53
Injected at: 960730 03:59

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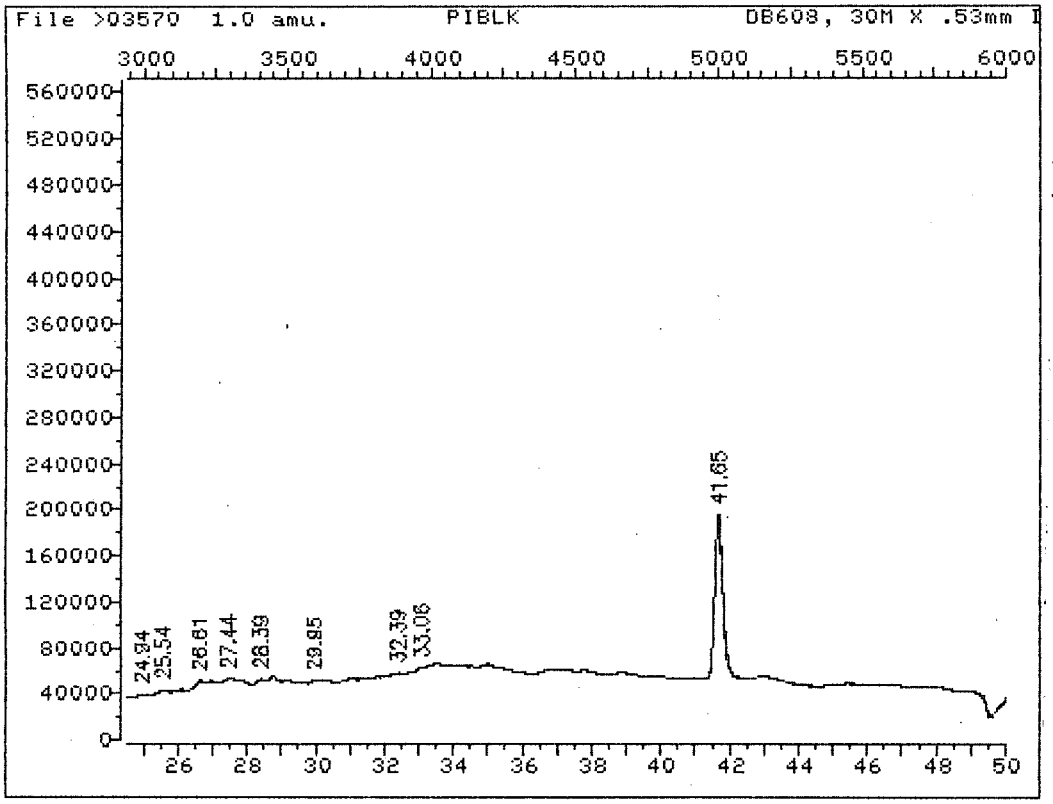
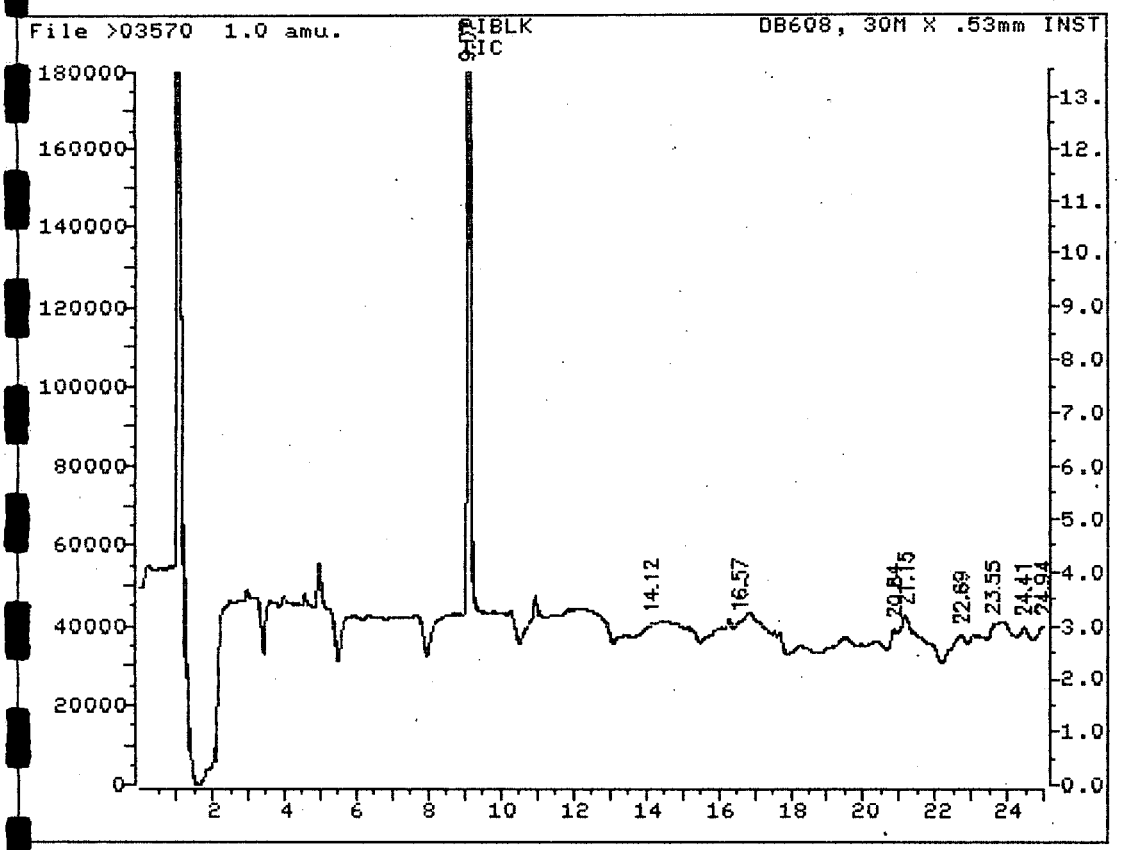


Data File: >03570::G2 Quant Output File: ^03570::GQ
Name: PIBLK 12 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960730 11:53
Injected at: 960730 03:59

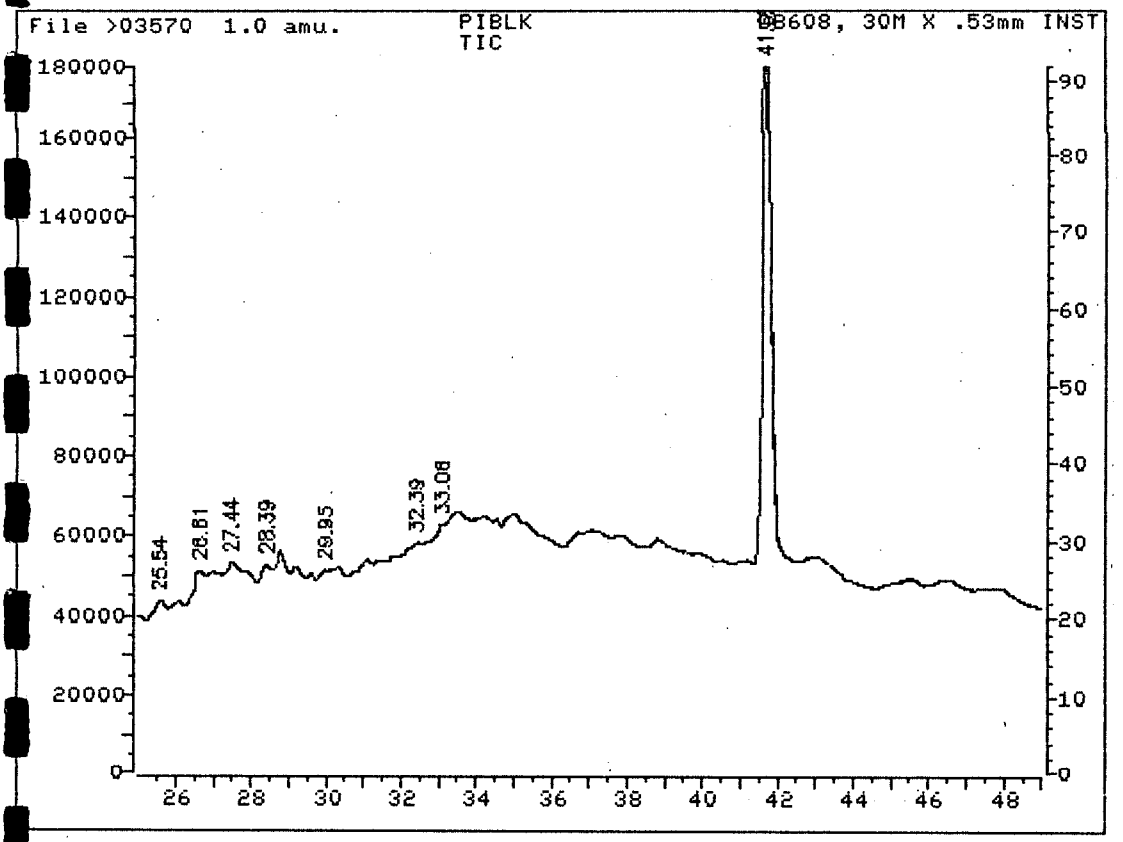
Page 2 of 2



MS data file header from : >03570::G2

Sample: PIBLK 12 Operator: TRFI2 7/30/96 3:59
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03570::G2

Sample: PIBLK /2 Operator: TRFI2 7/30/96 3:59
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

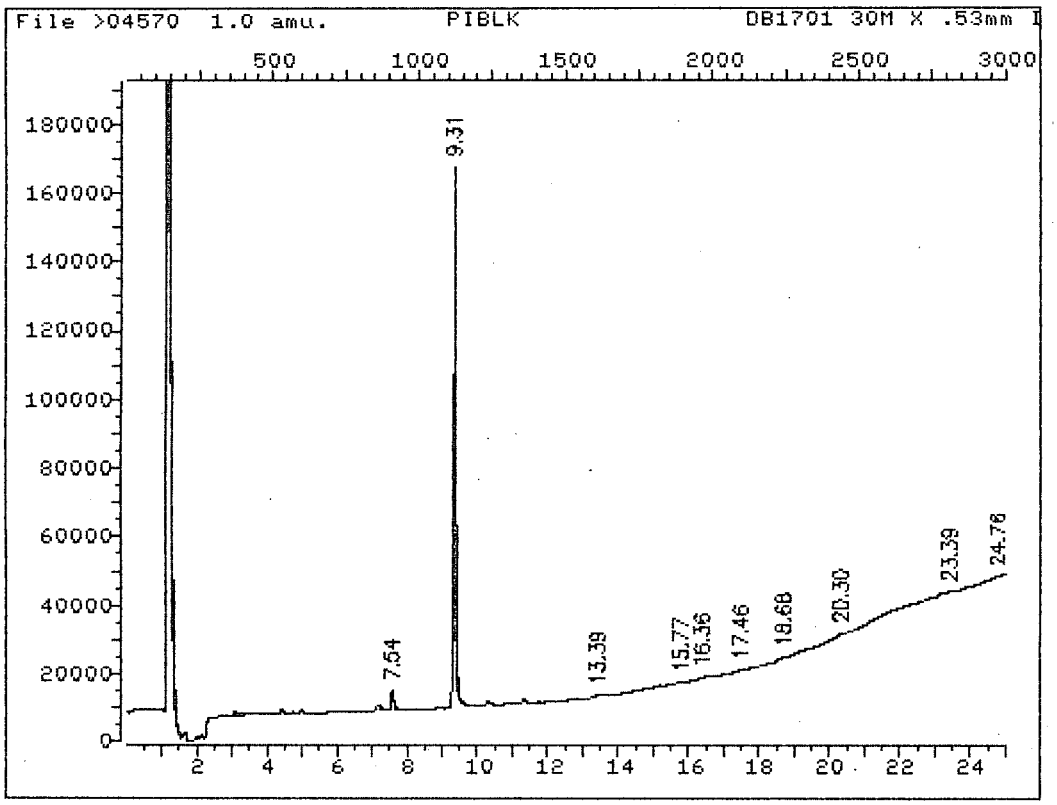
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960730 11:53
Output File: ^03570::GQ Injected at: 960730 03:59
Data File: >03570::G2 Dilution Factor: 1.00000
Name: PIBLK 12 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1089	2597578	20.19	ng/ml	100
4)	~~#delta-BHC~~ OW	16.57	1988	5013	.0383	ng/ml	100
11)	~~#4,4'-DDE~~ OW	22.69	2723	178718	1.87	ng/ml	100
12)	~~#Endrin~~ OW	24.94	2992	36343	.408	ng/ml	100
14)	~~#4,4'-DDD~~ VE	25.54	3065	96008	1.57	ng/ml	100
15)	~~#Endosulfan Sulfate~~ OW	28.39	3407	60533	.678	ng/ml	100
17)	~~#Methoxychlor~~ VE	32.39	3886	35771	.909	ng/ml	100
19)	#Decachlorobiphenyl	41.65	4998	2210481	18.56	ng/ml	100
21)	~~#gamma-Chlordane~~ OW	20.84	2501	44308	.349	ng/ml	100
22)	~~#Toxaphene(1)~~ ND	23.55	2826	15005	9.15	ng/ml	100
28)	~~#Aroclor-1254(1)~~ ND	20.84	2501	44308	9.03	ng/ml	100
29)	~~#Aroclor-1260(1)~~ ND	24.41	2929	43440	6.99	ng/ml	100
30)	~~#Endrin aldehyde~~ OW	27.44	3293	17315	.212	ng/ml	100
31)	~~#Toxaphene(2)~~ ND	27.44	3293	17315	10.50	ng/ml	100
32)	~~#Toxaphene(3)~~ ND	28.39	3407	60533	28.22	ng/ml	100
34)	~~#Aroclor-1016(2)~~ ND	14.12	1695	16063	2.73	ng/ml	100
36)	~~#Aroclor-1016(4)~~ ND	16.57	1988	5013	1.31	ng/ml	100
40)	~~#Aroclor-1232(2)~~ ND	14.12	1695	16063	6.29	ng/ml	100
42)	~~#Aroclor-1232(4)~~ ND	16.57	1988	5013	2.96	ng/ml	100
43)	~~#Aroclor-1242(2)~~ ND	14.12	1695	16063	3.53	ng/ml	100
45)	~~#Aroclor-1242(4)~~ ND	16.57	1988	5013	1.50	ng/ml	100
51)	~~#Aroclor-1254(2)~~ ND	21.15	2538	45073	7.73	ng/ml	100
53)	~~#Aroclor-1254(4)~~ ND	23.55	2826	14801	2.38	ng/ml	100
54)	~~#Aroclor-1254~~(5) ND	24.94	2992	36343	10.03	ng/ml	100
55)	~~#Aroclor-1260(2)~~ ND	24.94	2992	36343	5.20	ng/ml	100
56)	~~#Aroclor-1260(3)~~ ND	26.61	3193	101661	14.86	ng/ml	100
57)	~~#Aroclor-1260(4)~~ ND	29.95	3594	12177	.976	ng/ml	100
58)	~~#Aroclor-1260(5)~~ ND	33.06	3967	40393	7.57	ng/ml	100

Compound uses ESTD

EPMa
8/8/96



Data File: >04570::G5 Quant Output File: ^04570::GQ
Name: PIBLK 12 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960730 11:52
Injected at: 960730 04:00

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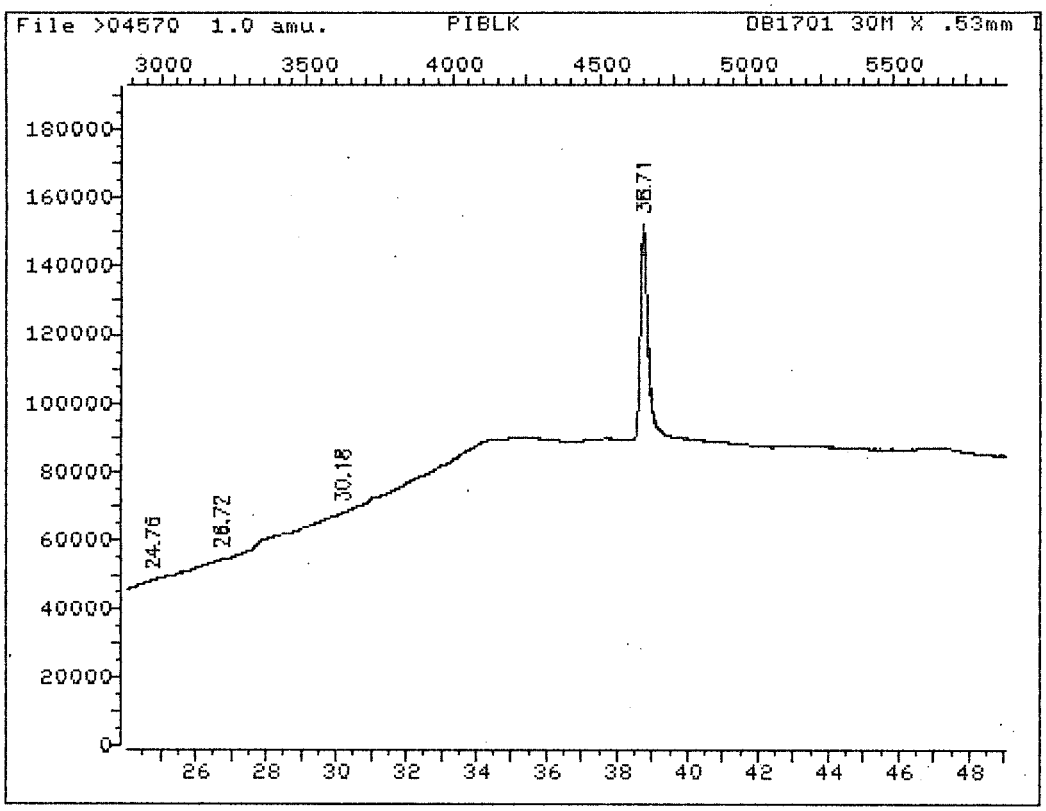
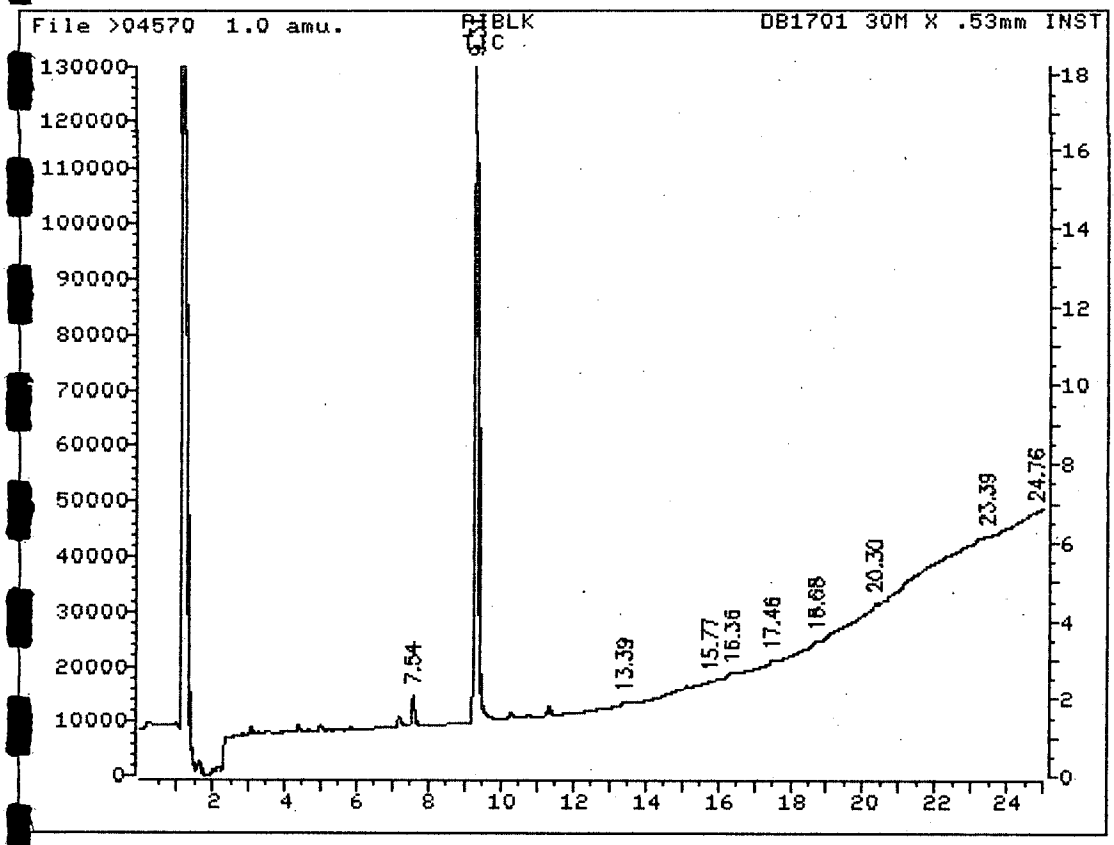


Data File: >04570::G5 Quant Output File: ^04570::GQ
Name: PIBLK 12 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960730 11:52
Injected at: 960730 04:00

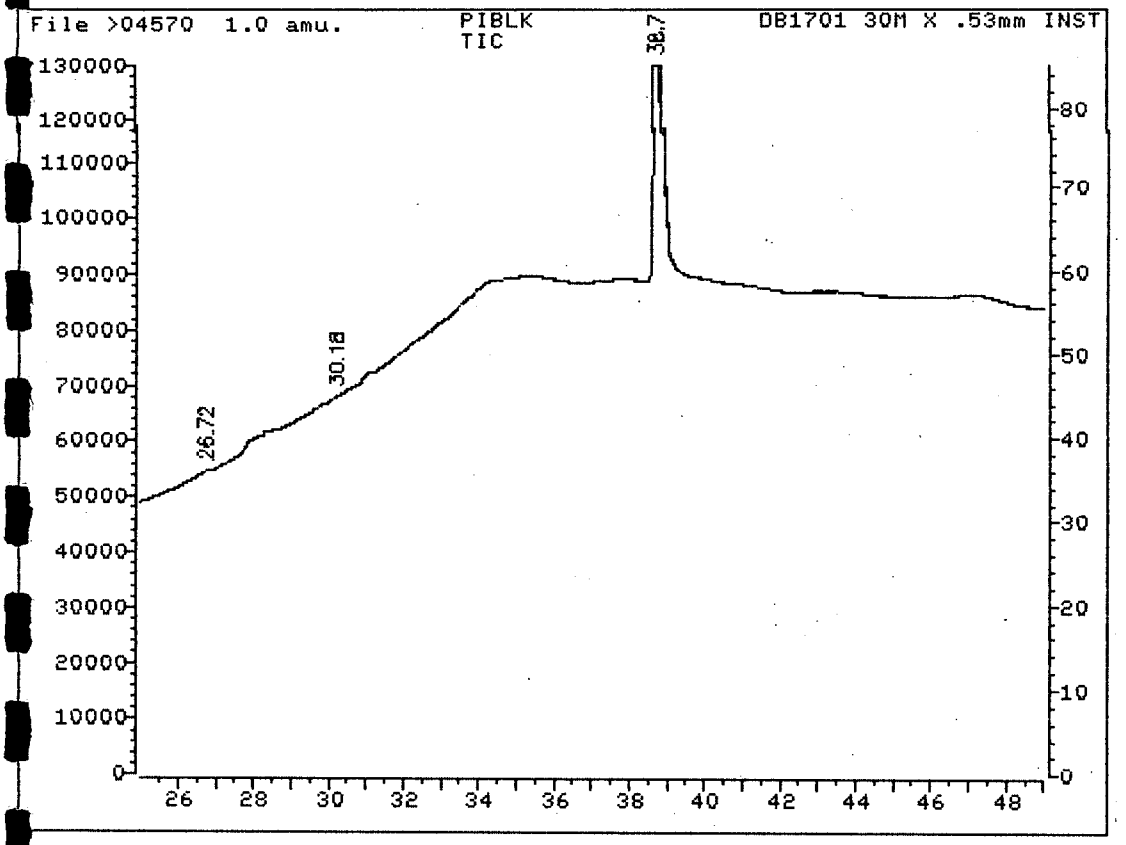
Page 2 of 2



MS data file header from : >04570::G5

Sample: PIBLK 12 Operator: TRFI2 7/30/96 4:00
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04570::G5

Sample: PIBLK 12 Operator: TRFI2 7/30/96 4:00
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960730 11:52
Output File: ^04570::GQ Injected at: 960730 04:00
Data File: >04570::G5 Dilution Factor: 1.00000
Name: PIBLK 12 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	878334	19.74	ng/ml	100
2)	#~~alpha-BHC~~ NC	13.39	1607	14336	.434	ng/ml	100
3)	#~~beta-BHC~~ NC	18.68	2241	64762	2.54	ng/ml	100
6)	#~~Heptachlor~~ NC	16.36	1963	5545	.116	ng/ml	100
7)	#~~Aldrin~~ NC	17.46	2095	32882	.852	ng/ml	100
10)	#~~Dieldrin~~ NC	23.39	2807	48870	1.50	ng/ml	100
13)	#~~Endosulfan II~~ NC	26.72	3206	50291	1.43	ng/ml	100
19)	#Decachlorobiphenyl	38.71	4645	914841	19.46	ng/ml	100
24)	#~~Aroclor 1221~~(1) ND	7.54	905	29965	28.11	ng/ml	100
25)	#~~Aroclor-1232~~(1) ND	7.54	905	29965	17.03	ng/ml	100
28)	#~~Aroclor-1254~~(1) ND	17.46	2095	33842	21.10	ng/ml	100
32)	#~~Toxaphene~~(3) ND	30.18	3621	9301	17.69	ng/ml	100
35)	#~~Aroclor-1016~~(3) ND	15.77	1892	7067	1.79	ng/ml	100
36)	#~~Aroclor-1016~~(4) ND	16.36	1963	10342	6.94	ng/ml	100
37)	#~~Aroclor-1016~~(5) ND	18.68	2241	72471	36.65	ng/ml	100
42)	#~~Aroclor-1232~~(4) ND	15.77	1892	7067	4.46	ng/ml	100
44)	#~~Aroclor-1242~~(3) ND	15.77	1892	7067	2.31	ng/ml	100
45)	#~~Aroclor 1242~~(4) ND	16.36	1963	10342	9.13	ng/ml	100
46)	#~~Aroclor-1242~~(5) ND	17.46	2095	33842	41.16	ng/ml	100
48)	#~~Aroclor 1248~~(3) ND	18.68	2241	72471	32.39	ng/ml	100
50)	#~~Aroclor 1248~~(5) ND	20.30	2436	74145	81.44	ng/ml	100
51)	#~~Aroclor-1254~~(2) ND	20.30	2436	82097	41.05	ng/ml	100
55)	#~~Aroclor-1260~~(2) ND	24.76	2971	38195	14.06	ng/ml	100

Compound uses ESTD

EPMa
8/8/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK13

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: PIBLK13

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03579

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

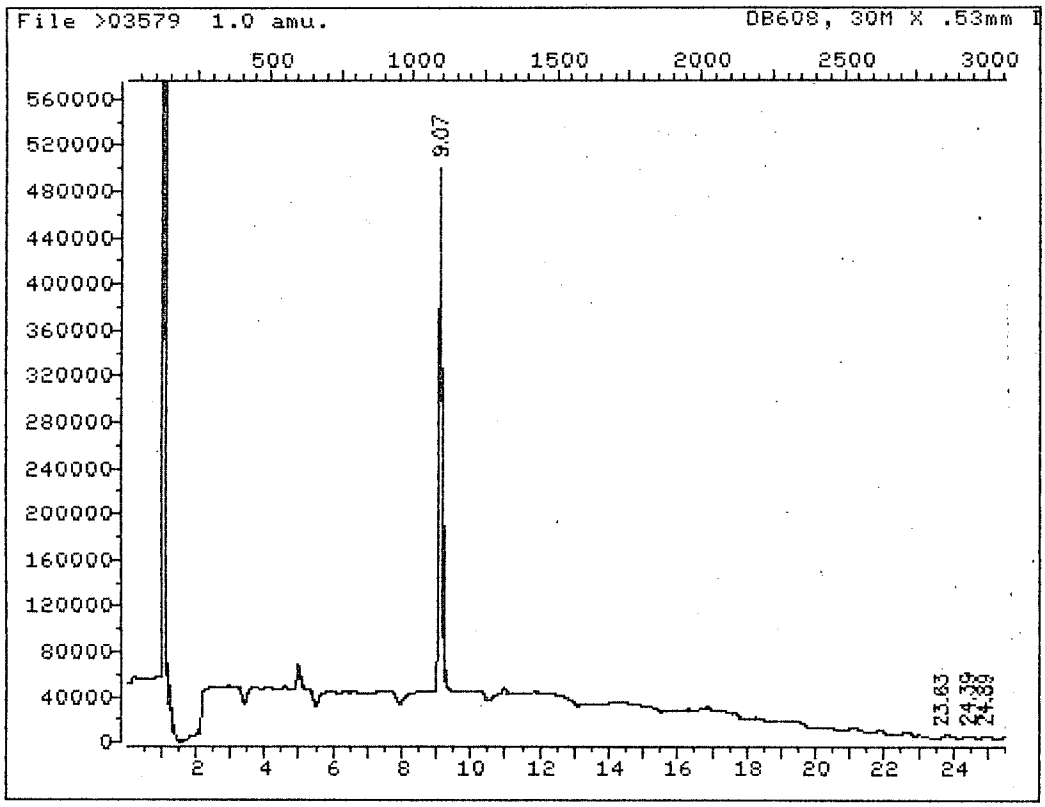
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/30/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U



Data File: >03579::G2 Quant Output File: ^03579::GQ
Name: PIBLK13 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960730 15:40
Injected at: 960730 14:46

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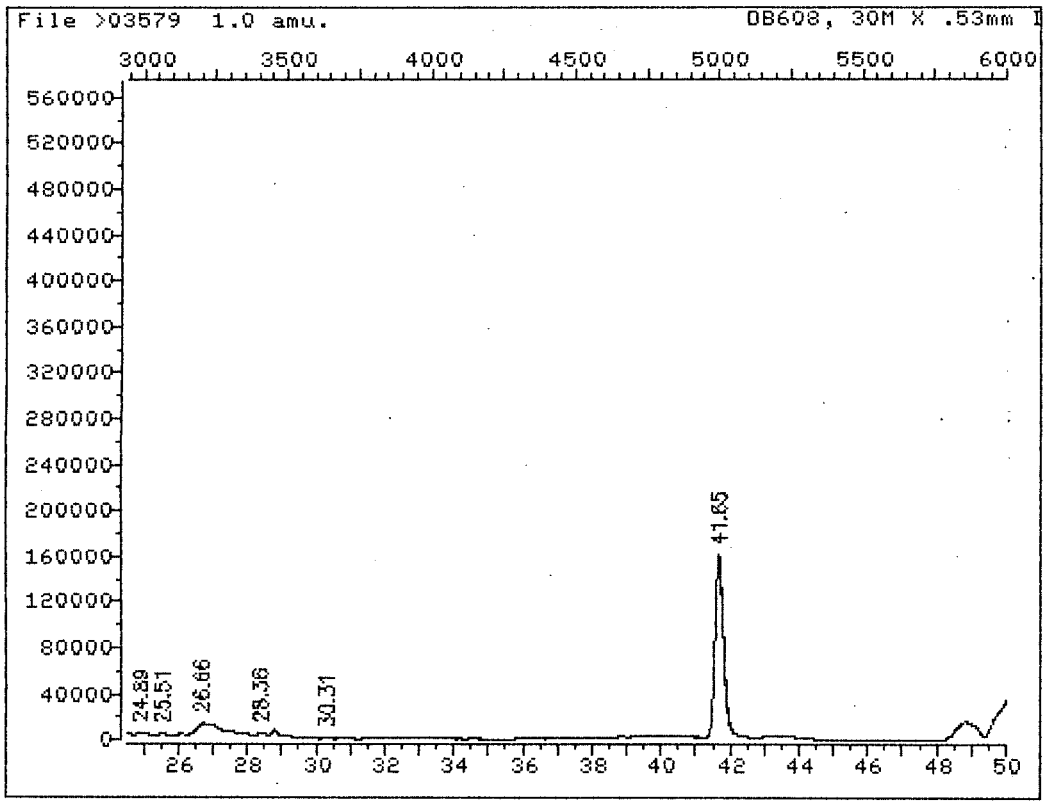

Data File: >03579::G2 Quant Output File: ^03579::GQ
Name: P113LK 13 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960730 15:40
Injected at: 960730 14:46

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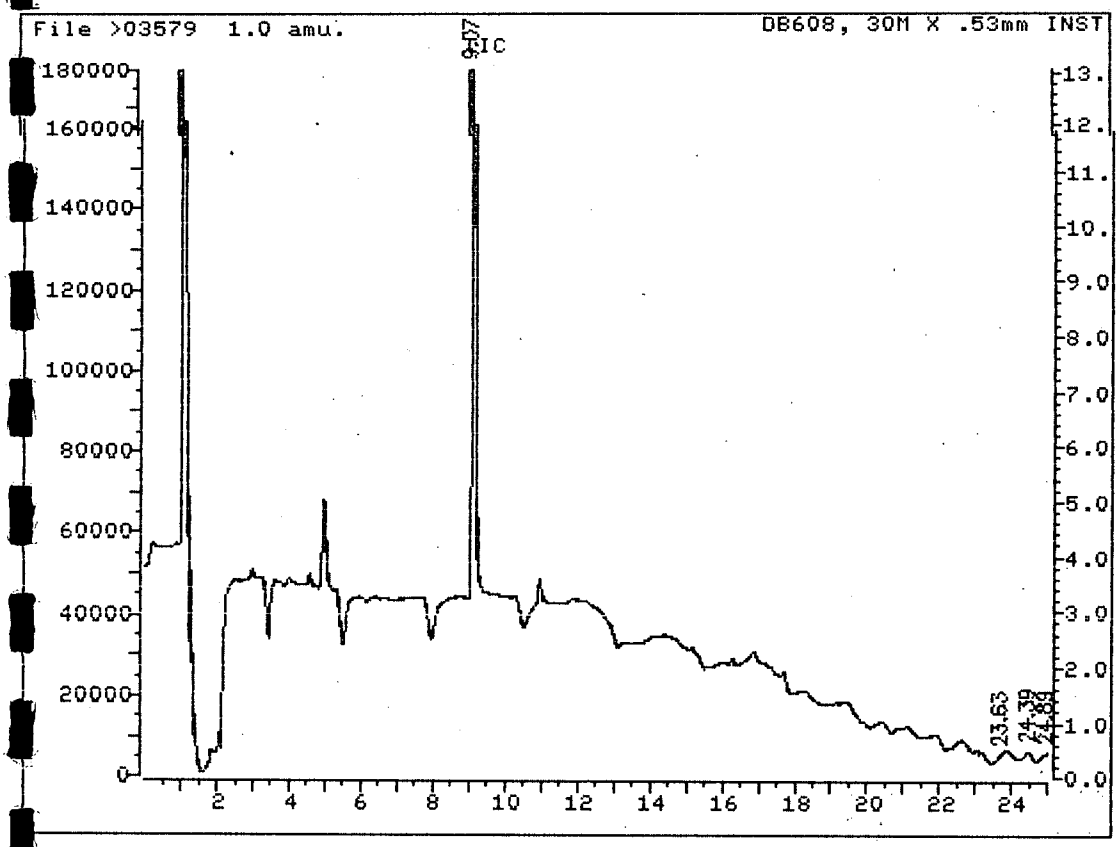
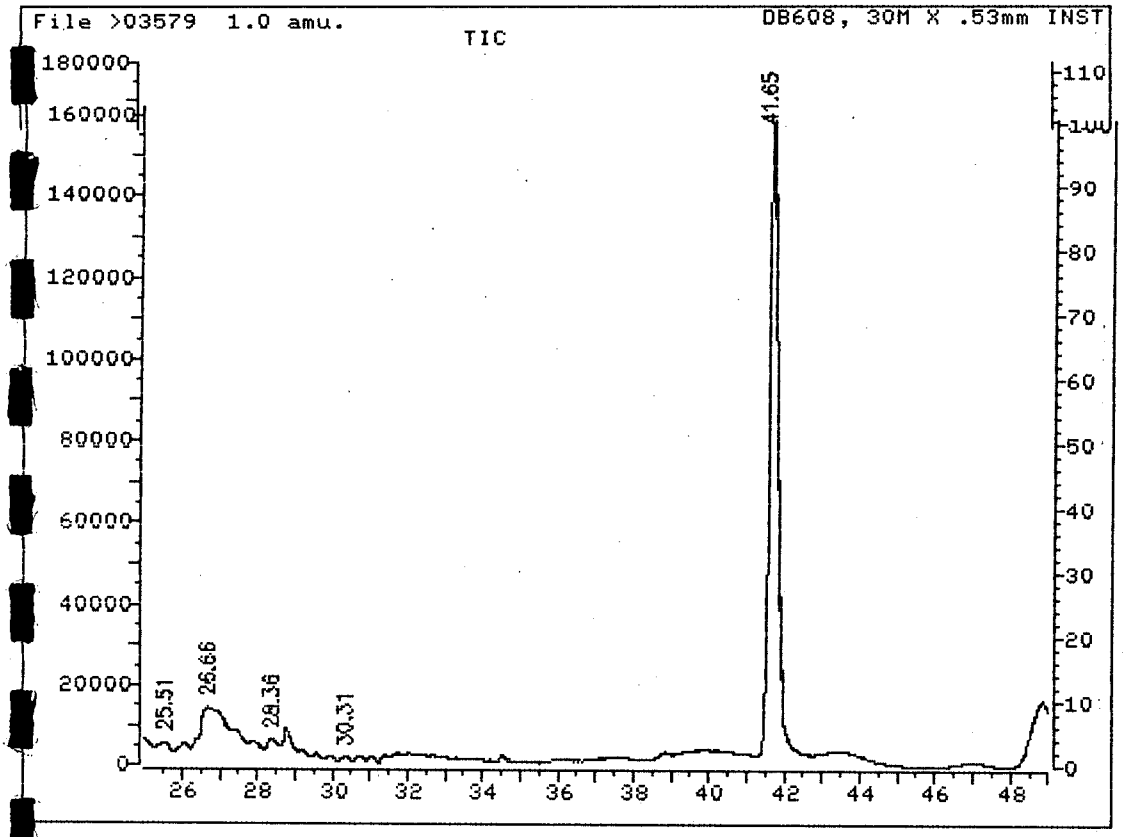


MS data file header from : >03579::G2

Sample: P1BLKB Operator: TRFI2 7/30/96 14:46
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03579::G2

Sample: P1BLK13 Operator: TRFI2 7/30/96 14:46
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

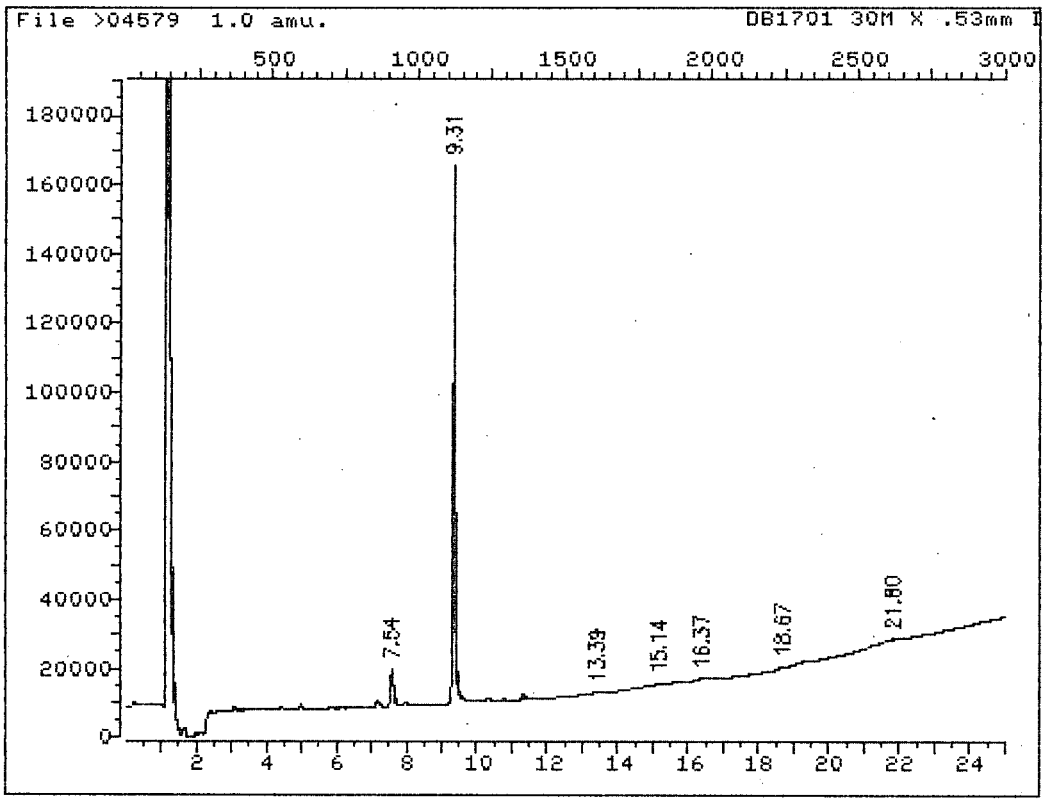
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960730 15:40
Output File: ^03579::GQ Injected at: 960730 14:46
Data File: >03579::G2 Dilution Factor: 1.00000
Name: PIBLK13 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1089	2636878	20.49	ng/ml	100
12)	~~#Endrin~~ OW	24.89	2986	11989	.135	ng/ml	100
14)	~~#4,4'-DDD~~ OW	25.51	3061	39622	.649	ng/ml	100
15)	#E~~ndosulfan Sulfate~~ NC	28.36	3403	15979	.179	ng/ml	100
19)	#Decachlorobiphenyl	41.65	4998	2555809	21.45	ng/ml	100
22)	~~#Toxaphene(1)~~ ND	23.63	2836	10038	6.12	ng/ml	100
29)	~~#Aroclor-1260(1)~~ ND	24.39	2927	7167	1.15	ng/ml	100
32)	~~#Toxaphene(3)~~ ND	28.36	3403	15979	7.45	ng/ml	100
33)	~~#Toxaphene(4)~~ ND	30.31	3637	6456	3.30	ng/ml	100
53)	~~#Aroclor-1254(4)~~ ND	23.63	2836	10038	1.61	ng/ml	100
54)	~~#Aroclor-1254(5)~~ ND	24.89	2986	11989	3.31	ng/ml	100
55)	~~#Aroclor-1260(2)~~ ND	24.89	2986	11989	1.71	ng/ml	100
56)	~~#Aroclor-1260(3)~~ ND	26.66	3199	115640	16.90	ng/ml	100
57)	~~#Aroclor-1260(4)~~ ND	30.31	3637	6456	.517	ng/ml	100

Compound uses ESTD

EPMa
8/8/96



Data File: >04579::G5 Quant Output File: ^04579::GQ
Name: P1BLK13 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960730 15:38
Injected at: 960730 14:46

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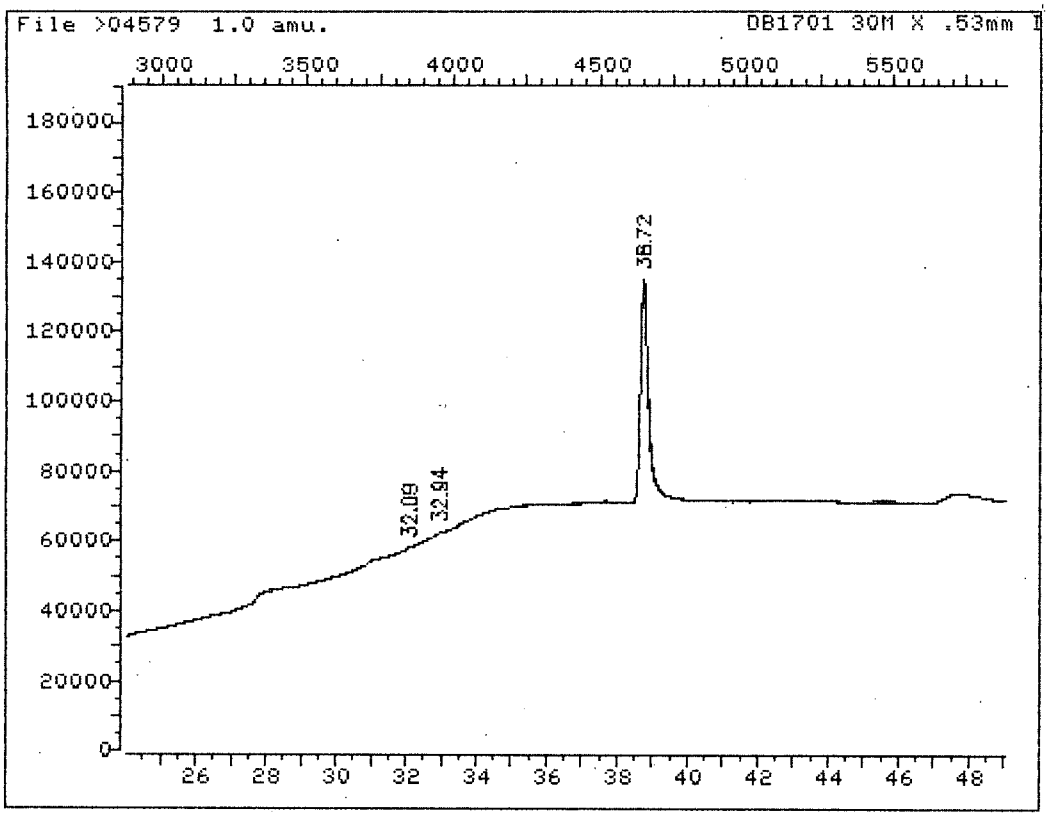

Data File: >04579::G5 Quant Output File: ^04579::GQ
Name: P1B2K13 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960730 15:38
Injected at: 960730 14:46

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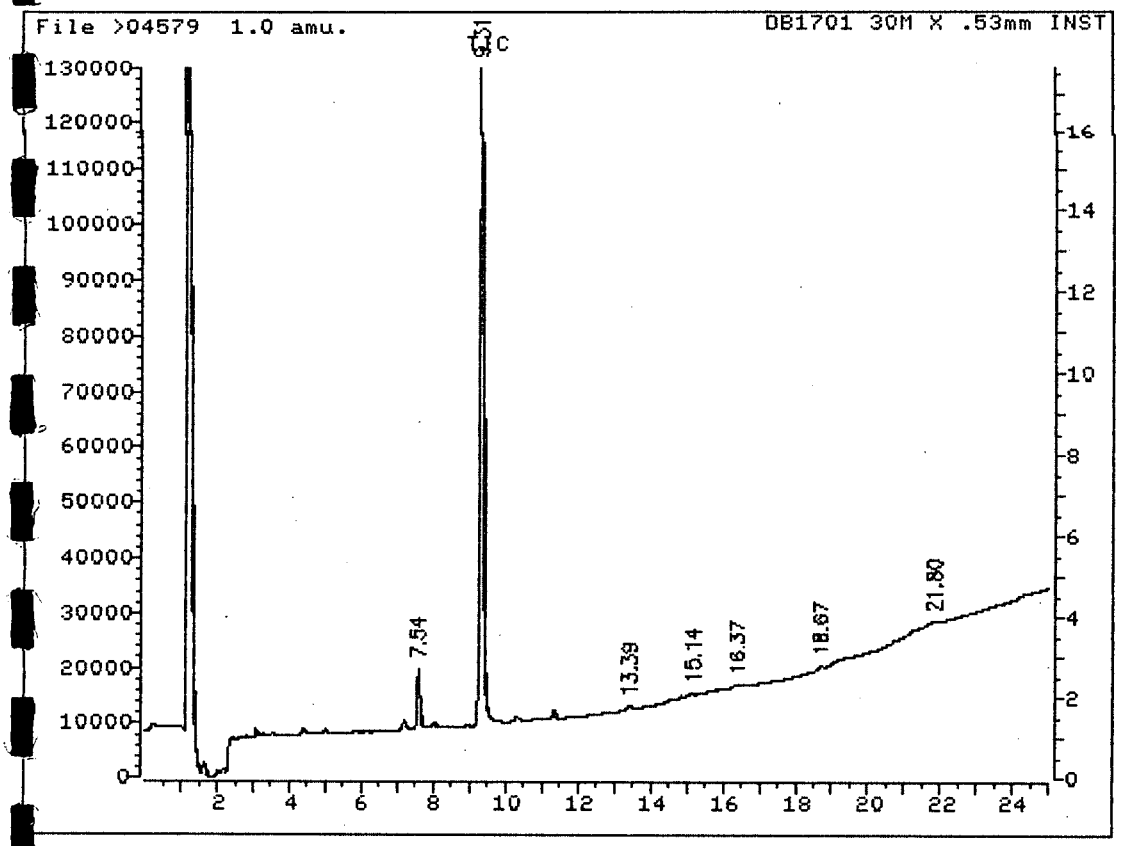
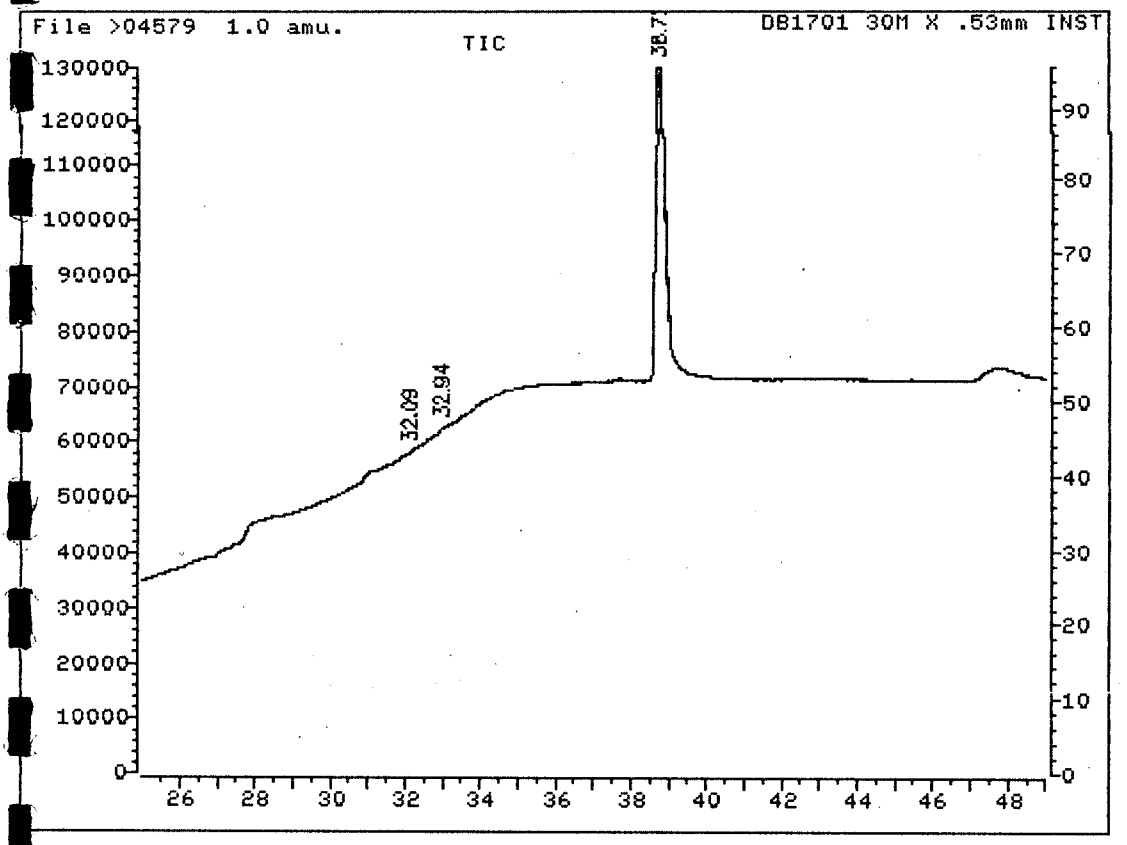


MS data file header from : >04579::G5

Sample: P1132K13 Operator: TRFI2 7/30/96 14:46
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04579::G5

Sample: P1BLK 13 Operator: TRFI2 7/30/96 14:46
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960730 15:38
Output File: ^04579::GQ Injected at: 960730 14:46
Data File: >04579::G5 Dilution Factor: 1.00000
Name: P1BLK13 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	878828	19.75	ng/ml	100
2)	~~#alpha-BHC~~ ND	13.39	1607	8531	.258	ng/ml	100
3)	~~#beta-BHC~~ ND	18.67	2240	39312	1.54	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~ ND	15.14	1817	5362	.153	ng/ml	100
6)	~~#Heptachlor~~ ND	16.37	1964	9729	.203	ng/ml	100
18)	~~#Endrin ketone~~ ND	32.94	3953	80720	2.44	ng/ml	100
19)	#Decachlorobiphenyl	38.72	4646	973022	20.69	ng/ml	100
21)	~~#gamma Chlordane~~ ND	21.80	2616	11462	.280	ng/ml	100
24)	~~#Aroclor-1221(1)~~ ND	7.54	905	58938	55.29	ng/ml	100
25)	~~#Aroclor-1232(1)~~ ND	7.54	905	58938	33.49	ng/ml	100
36)	~~#Aroclor-1016(4)~~ ND	16.37	1964	9729	6.52	ng/ml	100
37)	~~#Aroclor-1016(5)~~ ND	18.67	2240	39312	19.88	ng/ml	100
45)	~~#Aroclor-1242(4)~~ ND	16.37	1964	9729	8.59	ng/ml	100
48)	~~#Aroclor-1248(3)~~ ND	18.67	2240	39312	17.57	ng/ml	100
58)	~~#Aroclor-1260(5)~~ ND	32.09	3850	63129	23.67	ng/ml	100

Compound uses ESTD

EPua
8/8/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK14

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: PIBLK14

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03580

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

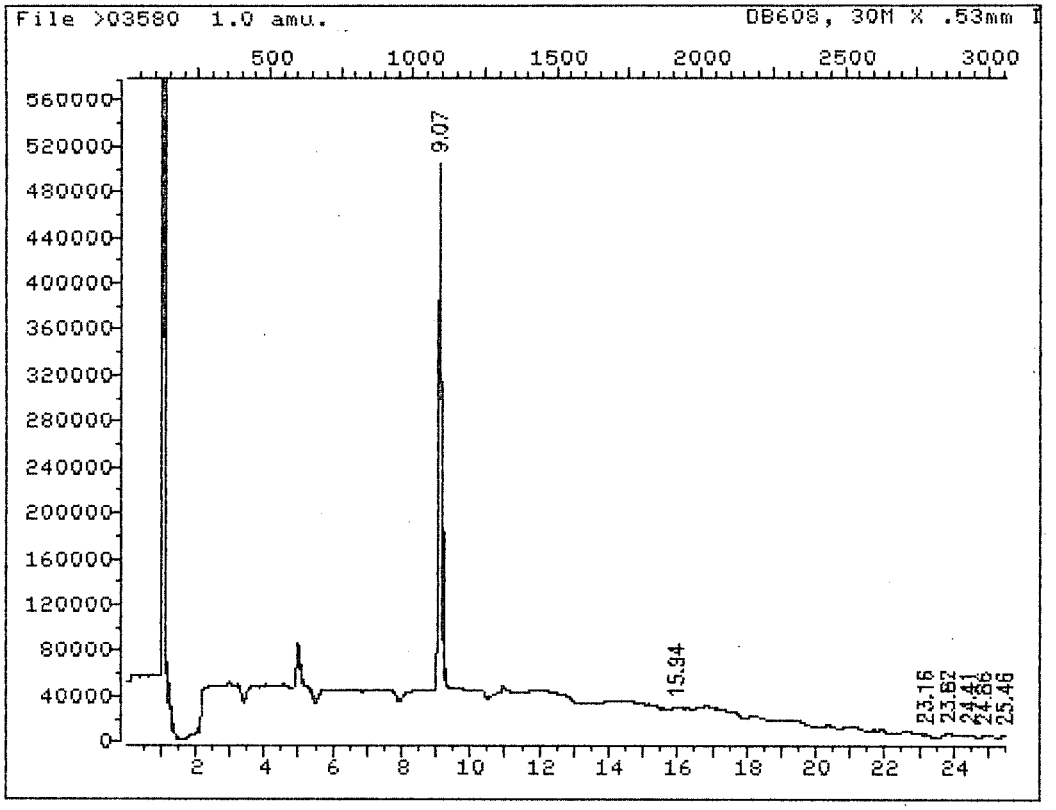
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/30/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

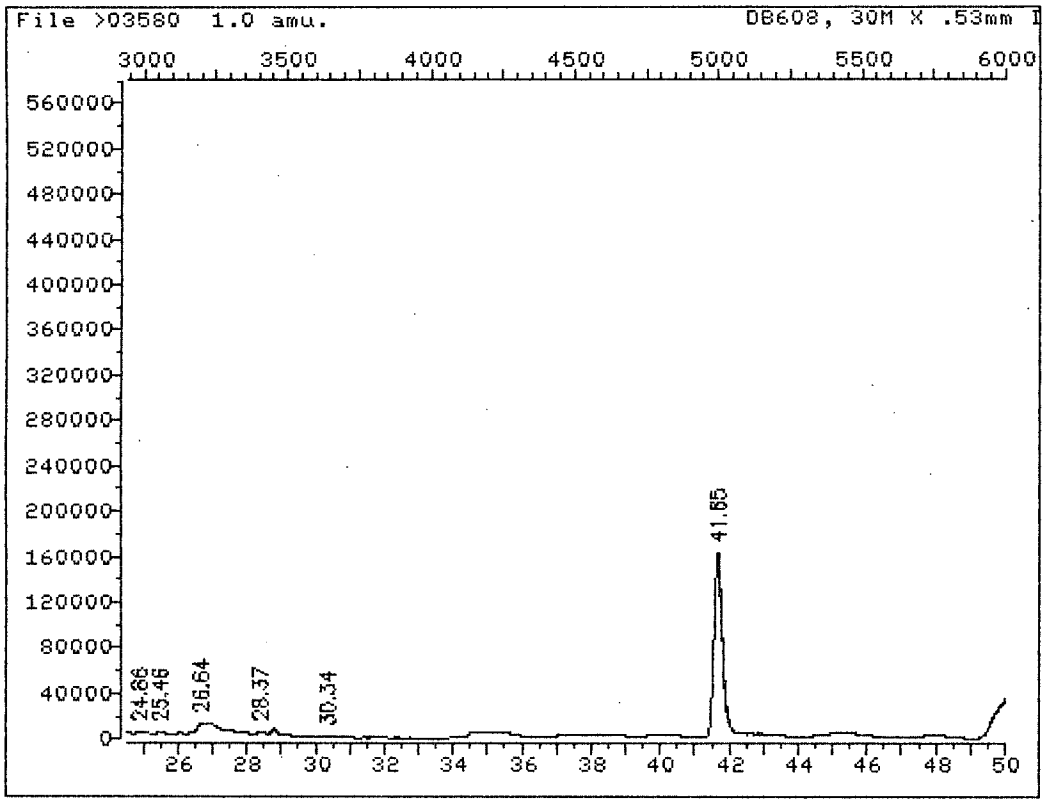


Data File: >03580::G2 Quant Output File: ^03580::GQ
Name: P1BLK14 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960730 16:38
Injected at: 960730 15:41

Page 1 of 2



Data File: >03580::G2 Quant Output File: ^03580::GQ
Name: P1BLK 14 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960730 16:38
Injected at: 960730 15:41

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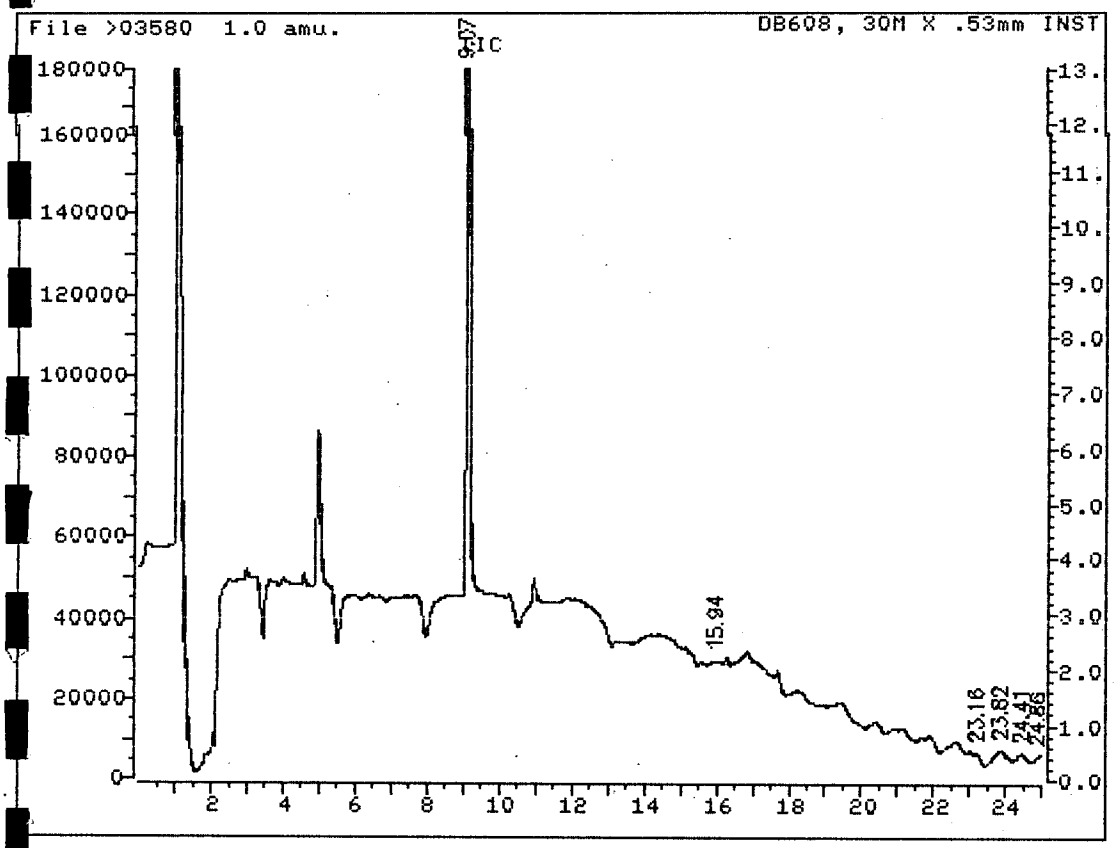
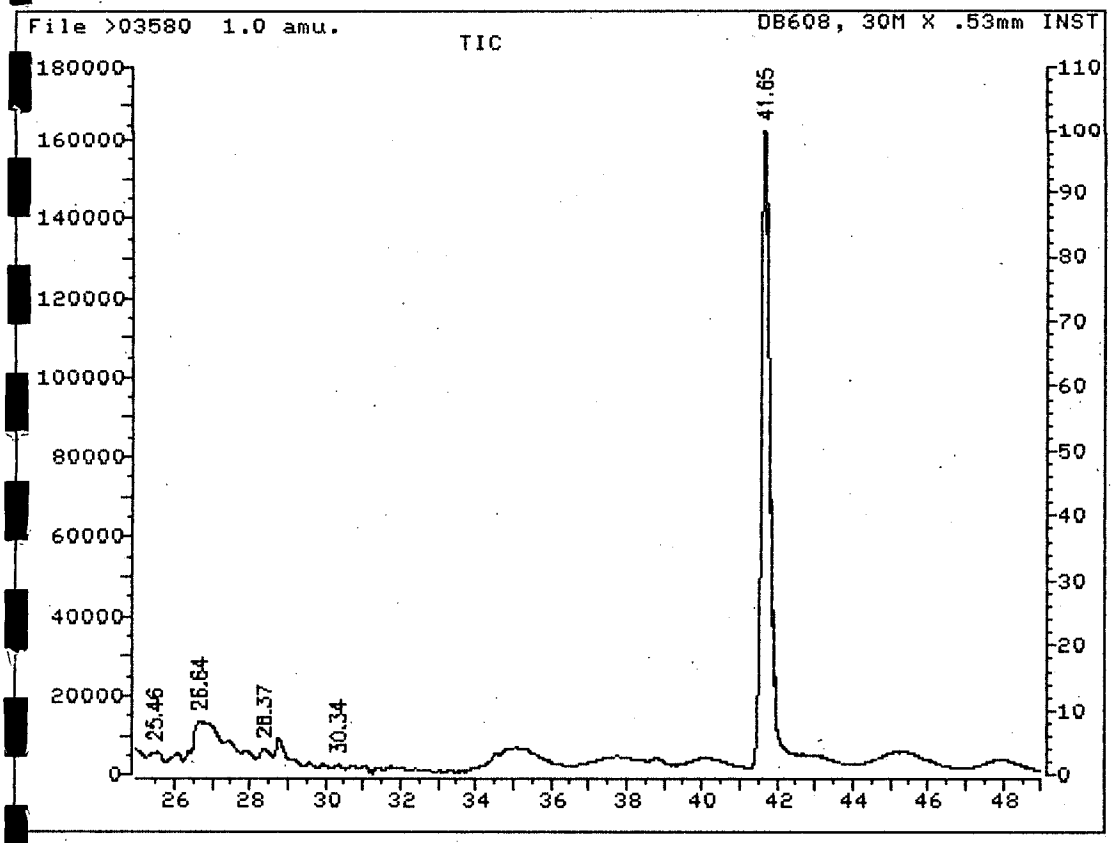


MS data file header from : >03580::G2

Sample: P1BLK 14 Operator: TRFI2 7/30/96 15:41
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03580::G2

Sample: P1 BLK 14 Operator: TRFI2 7/30/96 15:41
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

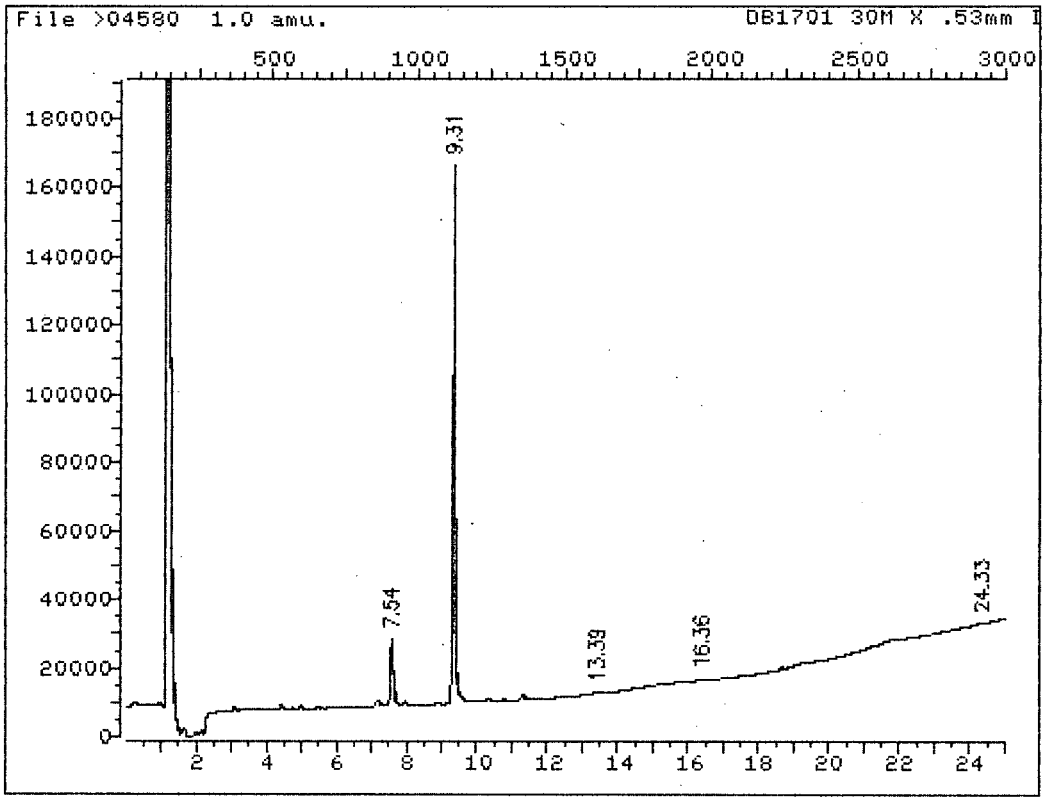
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960730 16:38
Output File: ^03580::GQ Injected at: 960730 15:41
Data File: >03580::G2 Dilution Factor: 1.00000
Name: P/13LK 14 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	2636480	20.49	ng/ml	100
6)	~~#Heptachlor~~ OW	15.94	1913	7204	.0622	ng/ml	100
10)	~~#Dieldrin~~ OW	23.16	2779	30934	.316	ng/ml	100
12)	~~#Endrin~~ 2 1/2 CRQL	24.86	2983	7518	.0844	ng/ml	100
14)	~~#4,4'-DDD~~ OW	25.46	3055	7811	.128	ng/ml	100
15)	~~#Endosulfan Sulfate~~ OW	28.37	3404	28868	.323	ng/ml	100
19)	#Decachlorobiphenyl	41.65	4998	2642757	22.18	ng/ml	100
22)	~~#Toxaphene(1)~~ ND	23.82	2858	47289	28.83	ng/ml	100
27)	~~#Aroclor-1248(1)~~ ND	15.94	1913	7204	.978	ng/ml	100
29)	~~#Aroclor-1260(1)~~ ND	24.41	2929	10966	1.76	ng/ml	100
32)	~~#Toxaphene(3)~~ ND	28.37	3404	28868	13.46	ng/ml	100
33)	~~#Toxaphene(4)~~ ND	30.34	3640	11066	5.66	ng/ml	100
35)	~~#Aroclor-1016(3)~~ ND	15.94	1913	7204	.649	ng/ml	100
41)	~~#Aroclor-1232(3)~~ ND	15.94	1913	7204	1.58	ng/ml	100
44)	~~#Aroclor-1242(3)~~ ND	15.94	1913	7204	.819	ng/ml	100
52)	~~#Aroclor-1254(3)~~ ND	23.16	2779	30934	10.28	ng/ml	100
54)	~~#Aroclor-1254(5)~~ ND	24.86	2983	7518	2.08	ng/ml	100
55)	~~#Aroclor-1260(2)~~ ND	24.86	2983	7518	1.08	ng/ml	100
56)	~~#Aroclor-1260(3)~~ ND	26.64	3197	77649	11.35	ng/ml	100
57)	~~#Aroclor-1260(4)~~ ND	30.34	3640	11516	.923	ng/ml	100

Compound uses ESTD

EPMa
8/8/96

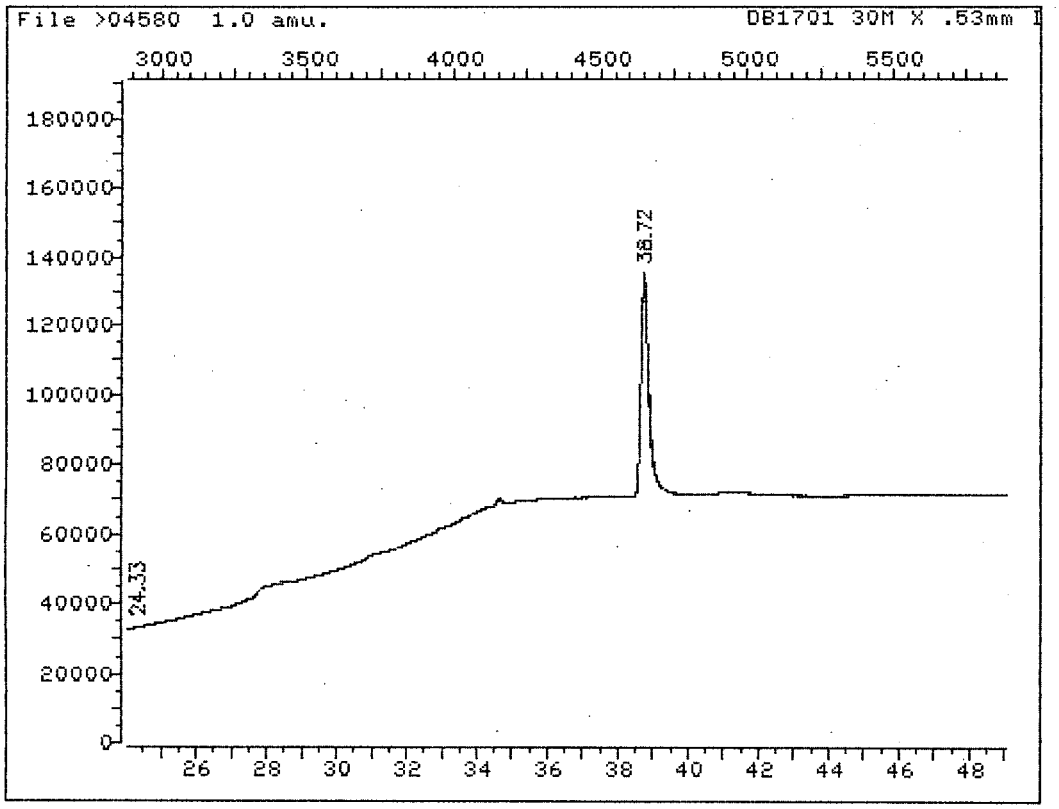


Data File: >04580::G5 Quant Output File: ^04580::GQ
Name: P1BLK14 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960730 16:34
Injected at: 960730 15:41

Page 1 of 2

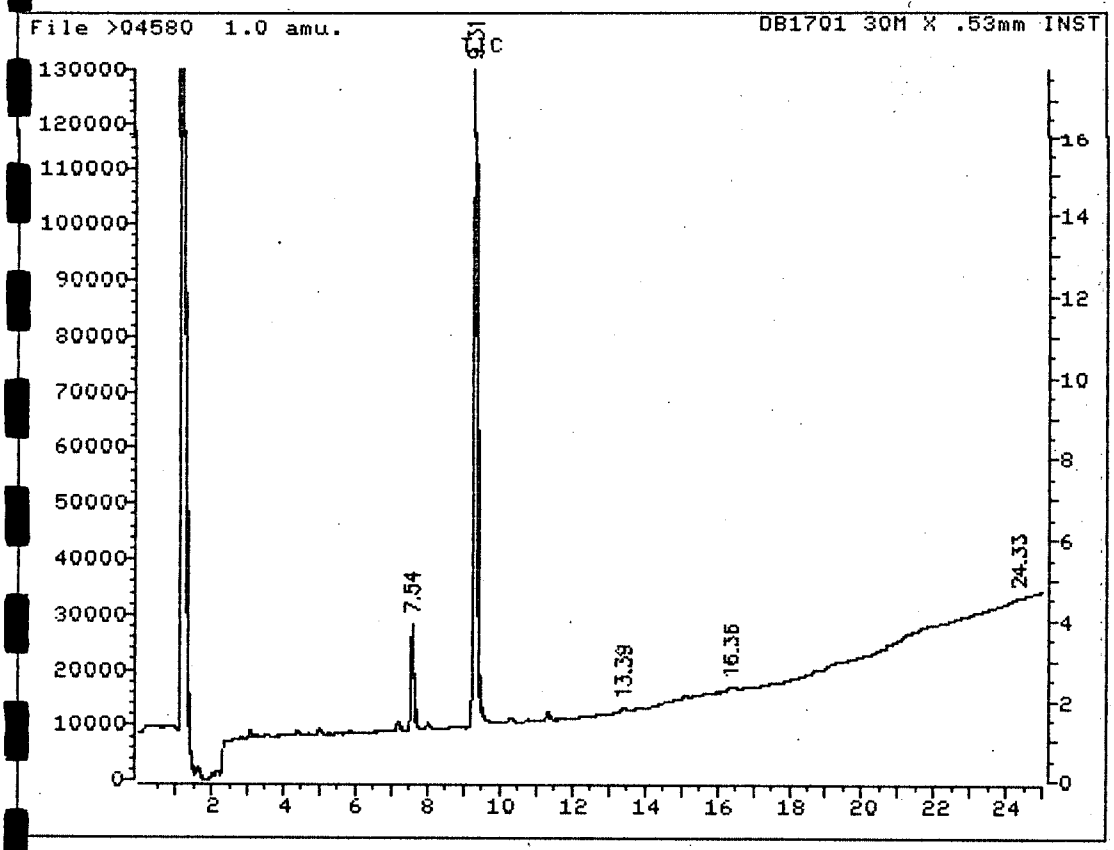


Data File: >04580::G5 Quant Output File: ^04580::GQ
Name: PIBLK 14 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960730 16:34
Injected at: 960730 15:41

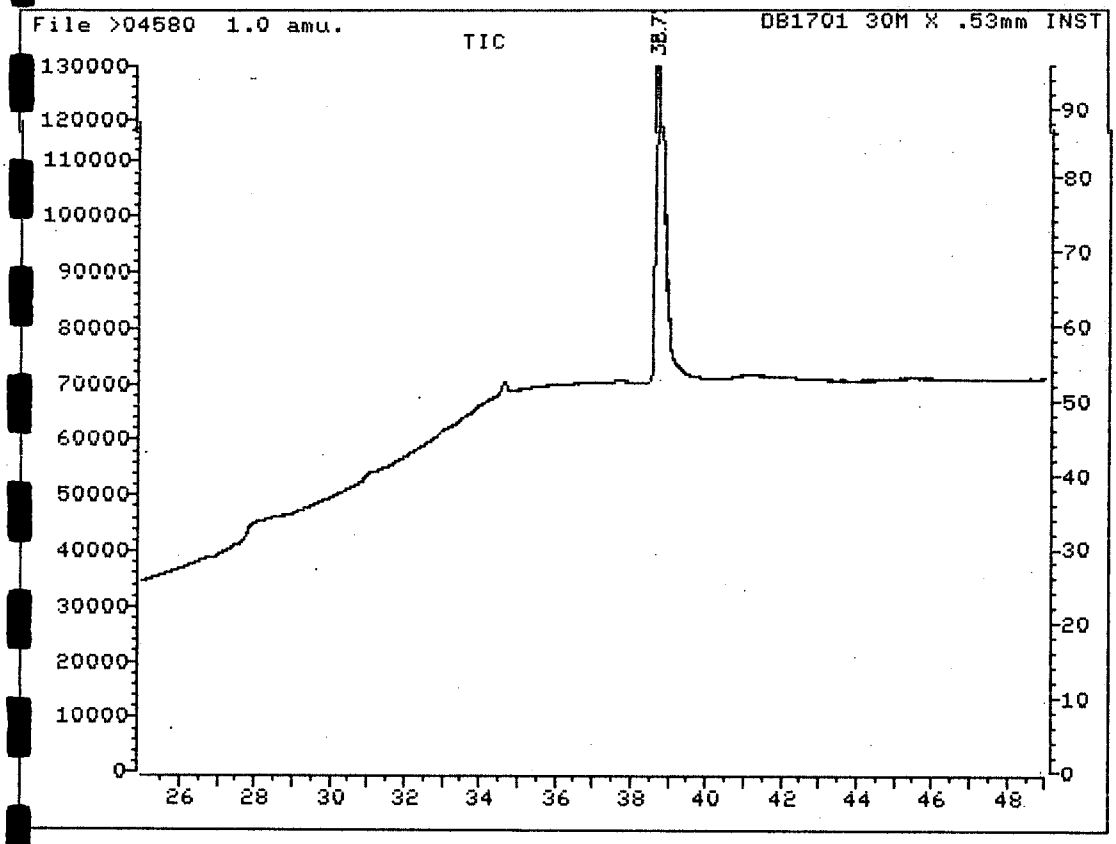
Page 2 of 2



MS data file header from : >04580::G5

Sample: P1BLK 14 Operator: TRFI2 7/30/96 15:41
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04580::G5

Sample: P1BLK 14 Operator: TRFI2 7/30/96 15:41
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960730 16:34
Output File: ^04580::GQ Injected at: 960730 15:41
Data File: >04580::G5 Dilution Factor: 1.00000
Name: P/BLK 14 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	881906	19.82	ng/ml	100
2)	#~~alpha-BHC~~ NC	13.39	1607	6585	.199	ng/ml	100
6)	#~~Heptachlor~~ NC	16.36	1963	7541	.158	ng/ml	100
12)	#~~Endrin~~ < 1/2 CRQL	24.33	2919	20956	.707	ng/ml	100
19)	#Decachlorobiphenyl	38.72	4646	967559	20.58	ng/ml	100
24)	#~~Aroclor-1221(1~~) ND	7.54	905	104585	98.11	ng/ml	100
25)	#~~Aroclor-1232(1~~) ND	7.54	905	104585	59.42	ng/ml	100
36)	#~~Aroclor-1016(4~~) ND	16.36	1963	7541	5.06	ng/ml	100
45)	#~~Aroclor-1242(4~~) ND	16.36	1963	7541	6.66	ng/ml	100

Compound uses ESTD

EPMC
8/8/96

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK15

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: PIBLK15

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03586

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

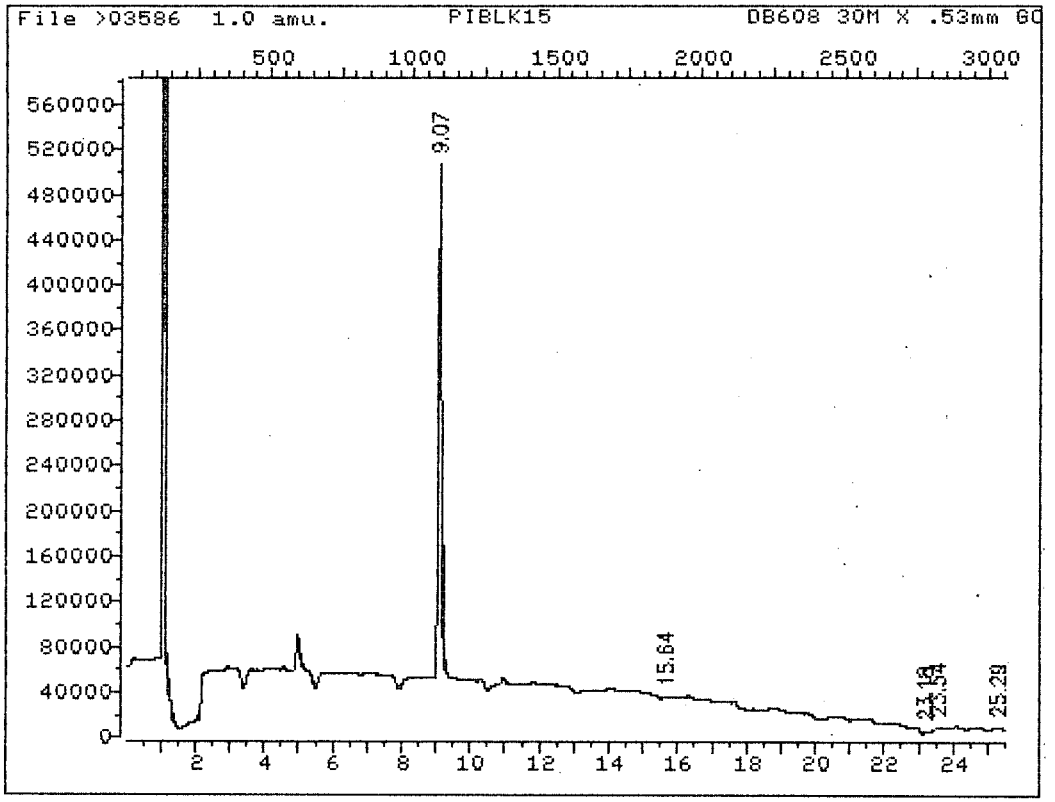
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/31/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

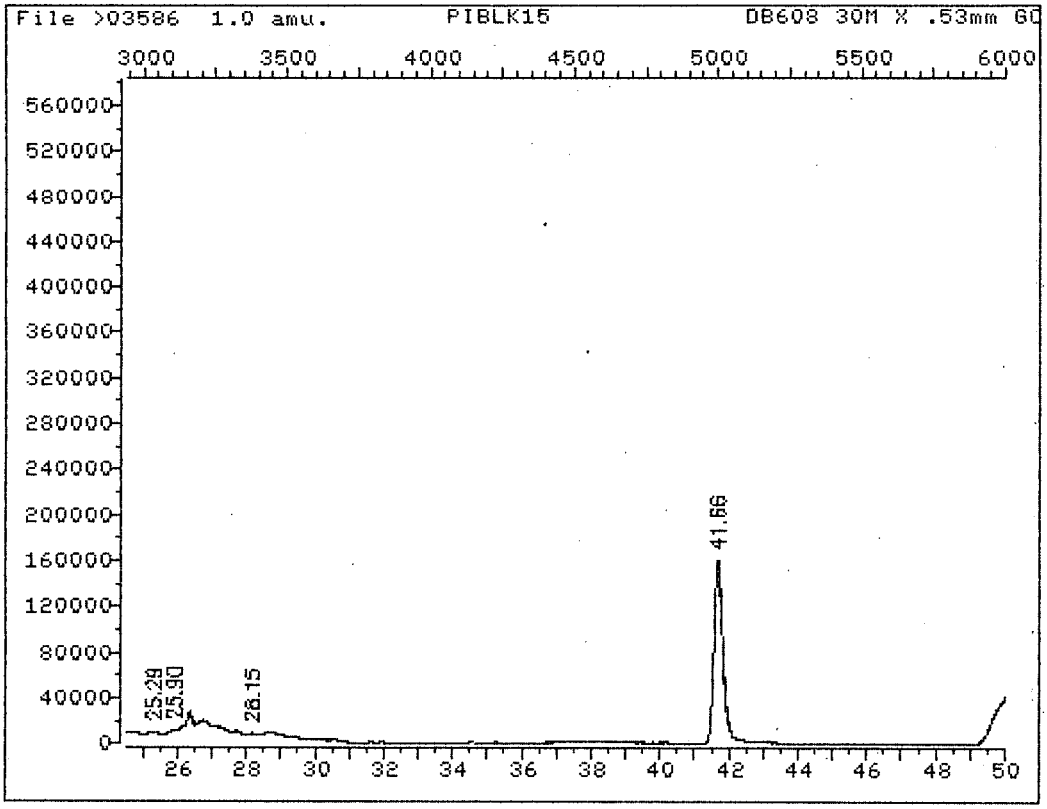


Data File: >03586::G4 Quant Output File: ^03586::GQ
Name: PIBLK15 Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj'

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960731 11:52
Injected at: 960731 10:52

Page 1 of 2

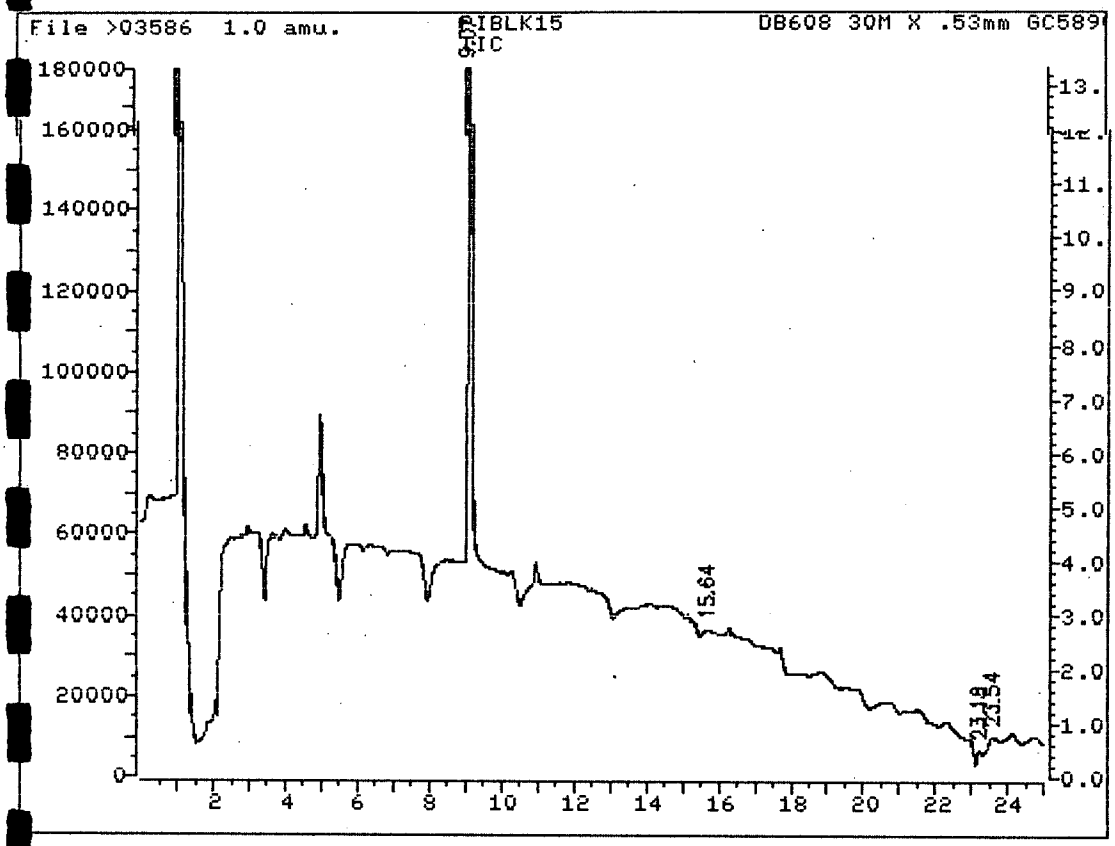


Data File: >03586::G4 Quant Output File: ^03586::GQ
Name: PIBLK15 Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj'

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960731 11:52
Injected at: 960731 10:52

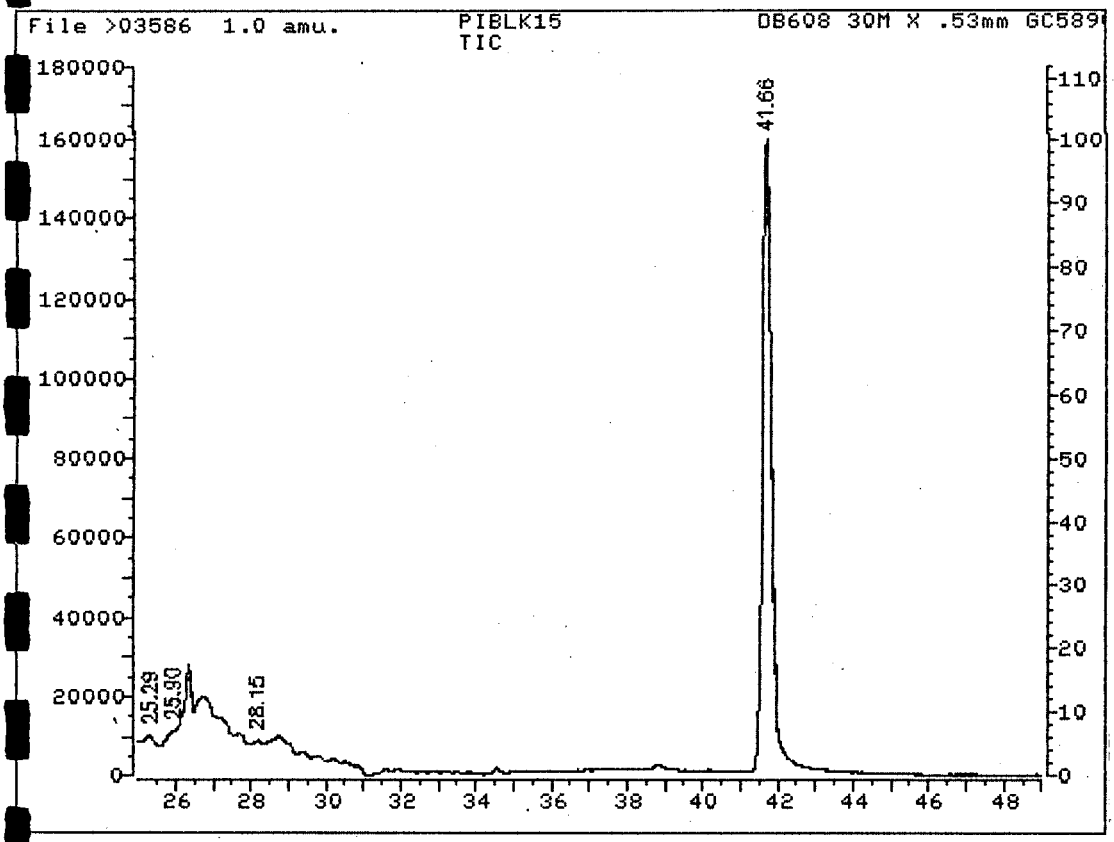
Page 2 of 2



MS data file header from : >03586::G4

Sample: PIBLK15 Operator: TRFI2 7/31/96 10:52
Misc : DB608 30M X .53mm GC58903 1ul inj'
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03586::G4

Sample: PIBLK15 Operator: TRFI2 7/31/96 10:52
Misc : DB608 30M X .53mm GC58903 1ul inj'
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

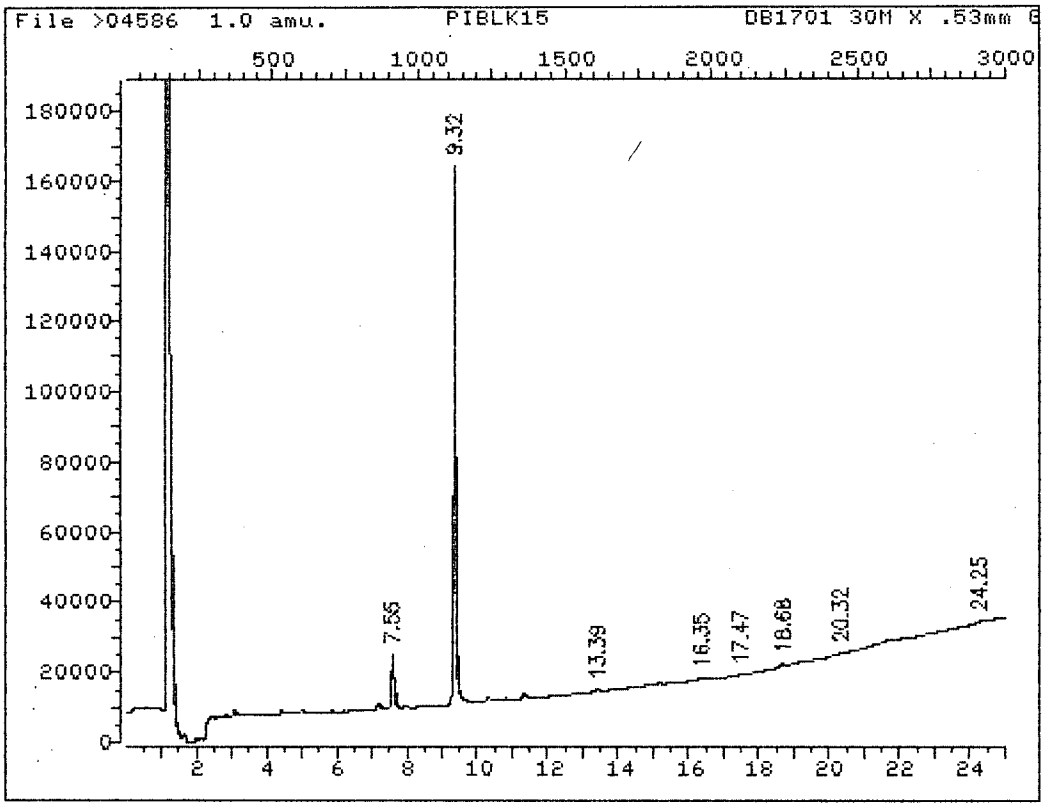
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960731 11:52
Output File: ^03586::GQ Injected at: 960731 10:52
Data File: >03586::G4 Dilution Factor: 1.00000
Name: PIBLK15 Instrument ID: GC03
Misc: DB608 30M X .53mm GC58903 1ul inj'

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	2642726	20.54	ng/ml	100
6)	~~#Heptachlor~~ OW	15.64	1877	11759	.102	ng/ml	100
10)	~~#Dieldrin~~ OW	23.18	2782	30369	.310	ng/ml	100
13)	~~#Endosulfan II~~ OW	25.90	3108	36864	.366	ng/ml	100
14)	~~#4,4'-DDD~~ OW	25.29	3035	49601	.812	ng/ml	100
15)	~~#Endosulfan Sulfate~~ OW	28.15	3378	8213	.0919	ng/ml	100
19)	#Decachlorobiphenyl	41.66	4999	2674556	22.45	ng/ml	100
22)	~~#Toxaphene(1)~~ ND	23.54	2825	16049	9.79	ng/ml	100
32)	~~#Toxaphene(3)~~ ND	28.15	3378	8213	3.83	ng/ml	100
52)	~~#Aroclor-1254(3)~~ ND	23.18	2782	30369	10.09	ng/ml	100
53)	~~#Aroclor-1254(4)~~ ND	23.54	2825	16049	2.58	ng/ml	100

Compound uses ESTD

EPM
8/8/96

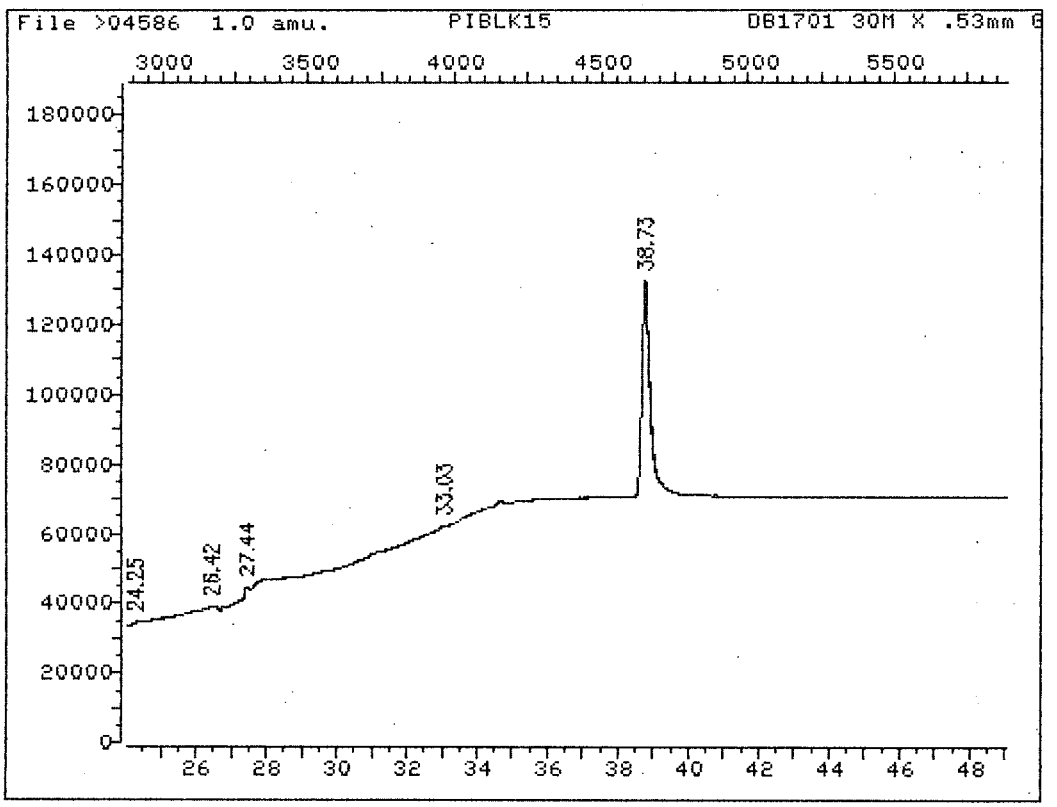


Data File: >04586::G5 Quant Output File: ^04586::GQ
Name: PIBLK15 Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58903 1ul inj

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960731 11:47
Injected at: 960731 10:52

Page 1 of 2



Data File: >04586::G5 Quant Output File: ^04586::GQ
Name: PIBLK15 Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58903 1ul inj

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960731 11:47
Injected at: 960731 10:52

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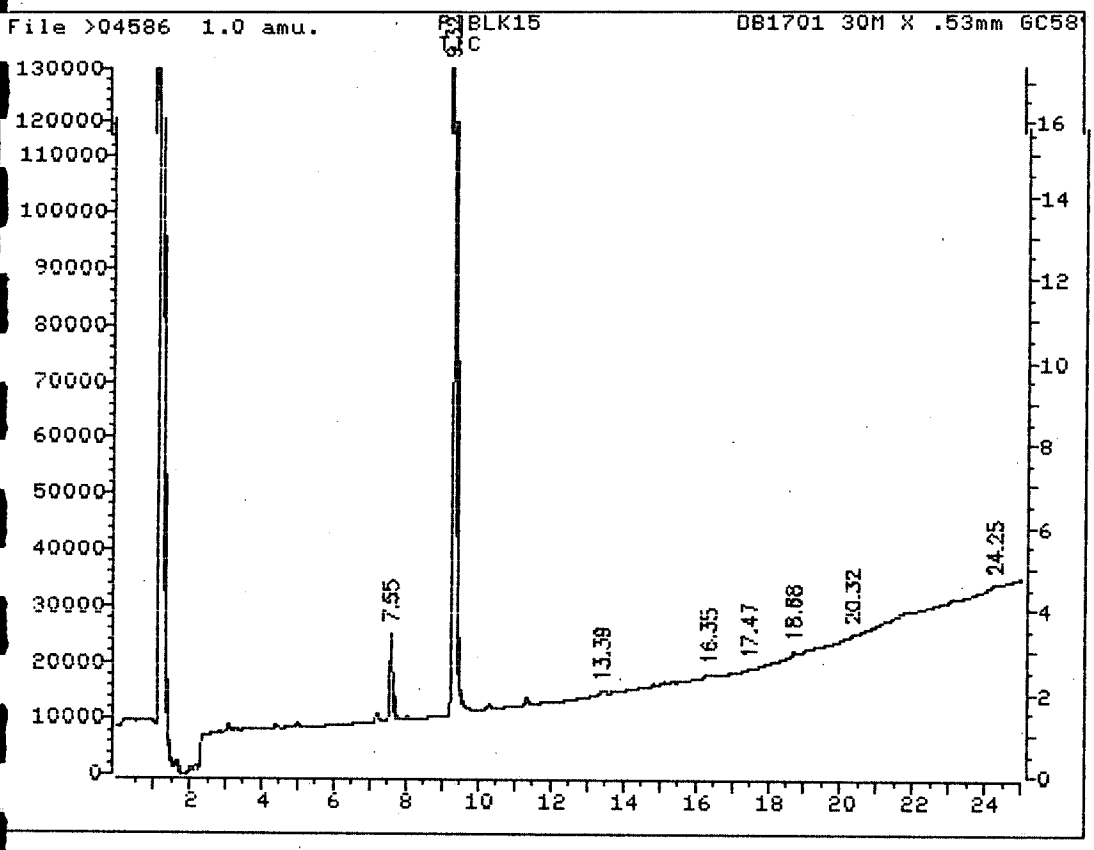
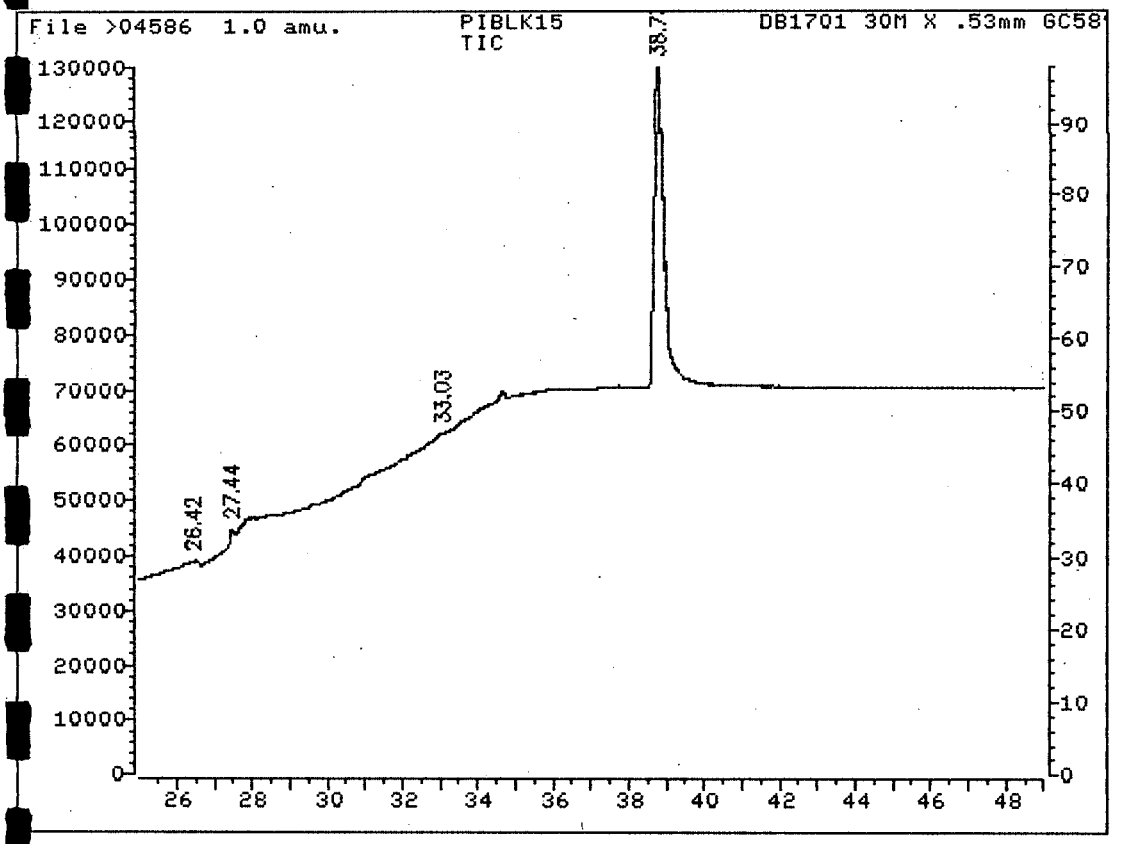


MS data file header from : >04586::G5

Sample: PIBLK15 Operator: TRFI2 7/31/96 10:52
Misc : DB1701 30M X .53mm GC58903 1ul inj
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04586::G5

Sample: PIBLK15 Operator: TRFI2 7/31/96 10:52
Misc : DB1701 30M X .53mm GC58903 1ul inj
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960731 11:47
Output File: ^04586::GQ Injected at: 960731 10:52
Data File: >04586::G5 Dilution Factor: 1.00000
Name: PIBLK15 Instrument ID: GC04
Misc: DB1701 30M X .53mm GC58903 1ul inj

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.32	1119	892446	20.06	ng/ml	100
2)	~~#alpha-BH~~C NC	13.39	1607	7790	.236	ng/ml	100
3)	~~#beta-BH~~C NC	18.68	2241	51018	2.00	ng/ml	100
6)	~~#Heptachl~~or NC	16.35	1962	7990	.167	ng/ml	100
7)	~~#Aldri~~n NC	17.47	2096	5393	.140	ng/ml	100
12)	~~#Endr~~in NC	24.25	2910	20752	.700	ng/ml	100
14)	~~#4,4'-DD~~D NC	26.42	3170	14903	.787	ng/ml	100
16)	~~#4,4'-DDT~~ NC	27.44	3293	95339	5.62	ng/ml	100
18)	~~#Endrin ketone~~ NC	33.03	3963	89202	2.70	ng/ml	100
19)	#Decachlorobiphenyl	38.73	4648	964199	20.51	ng/ml	100
24)	~~#Aroclor-1221~~(1) ND	7.55	906	83222	78.07	ng/ml	100
25)	~~#Aroclor-1232~~(1) ND	7.55	906	83222	47.28	ng/ml	100
36)	~~#Aroclor-1016~~(4) ND	16.35	1962	7990	5.36	ng/ml	100
37)	~~#Aroclor-1016~~(5) ND	18.68	2241	56944	28.79	ng/ml	100
45)	~~#Aroclor-1242~~(4) ND	16.35	1962	7990	7.05	ng/ml	100
48)	~~#Aroclor-1248~~(3) ND	18.68	2241	56944	25.45	ng/ml	100
50)	~~#Aroclor-1248~~(5) ND	20.32	2438	34367	37.75	ng/ml	100
51)	~~#Aroclor-1254~~(2) ND	20.32	2438	38483	19.24	ng/ml	100

Compound uses ESTD

EPM
8/8/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK16

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: PIBLK16

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03597

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

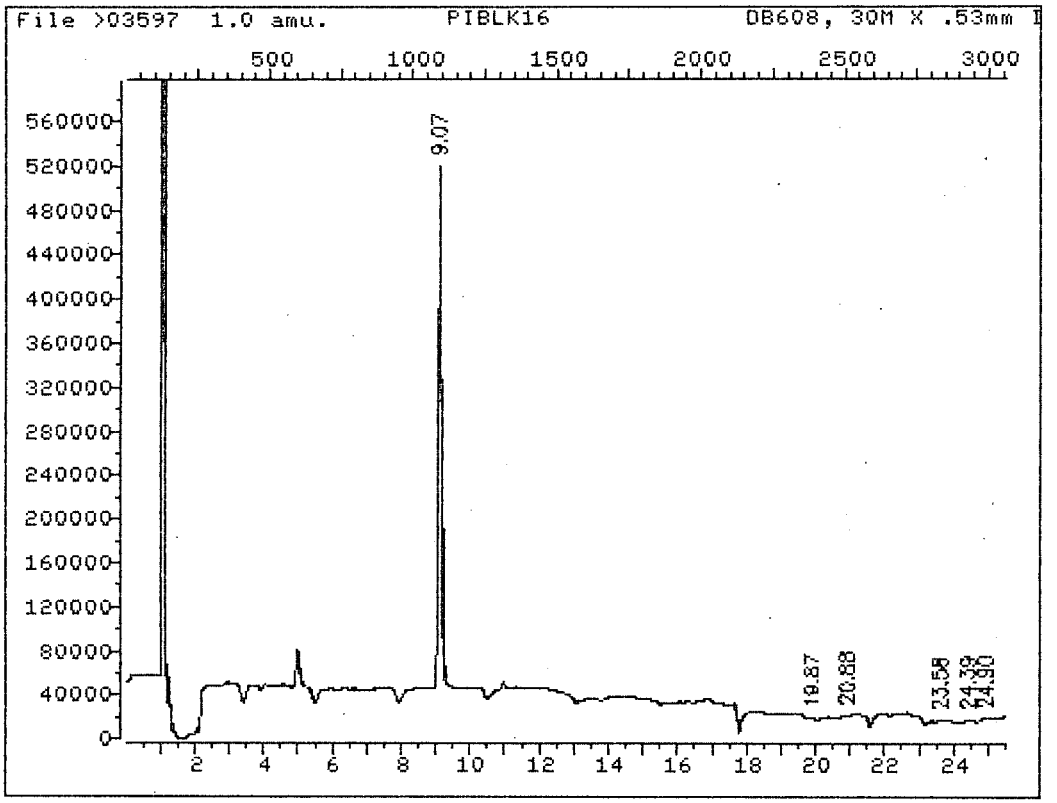
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/31/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U



Data File: >03597::G4 Quant Output File: ^03597::F3
Name: PIBLK16 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960801 16:52
Injected at: 960731 20:57

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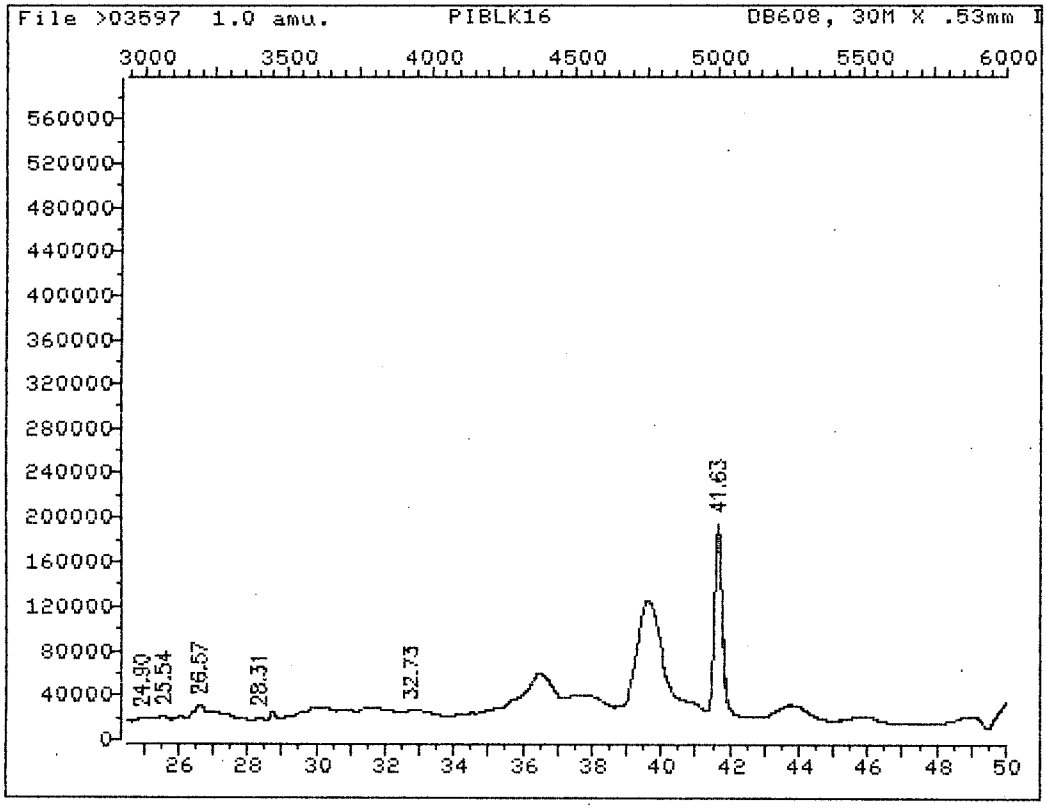
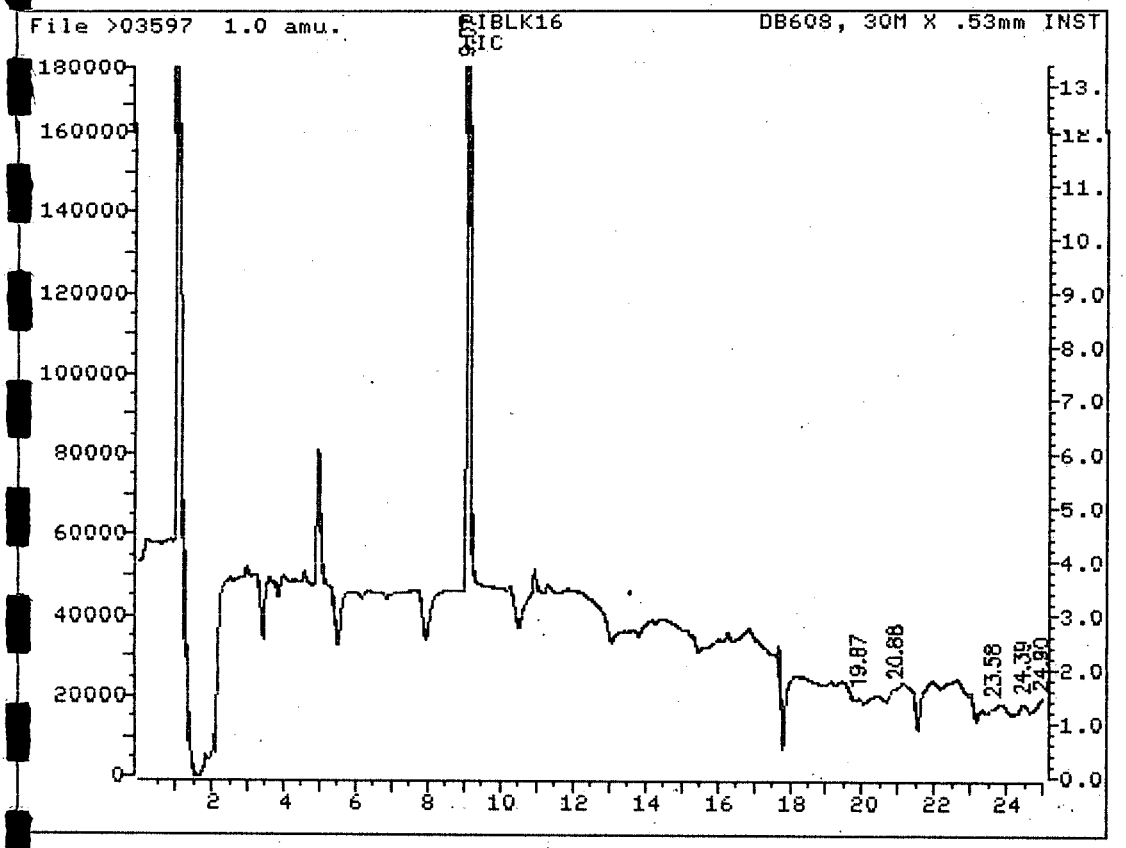


Data File: >03597::G4 Quant Output File: ^03597::F3
Name: PIBLK16 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960801 16:52
Injected at: 960731 20:57

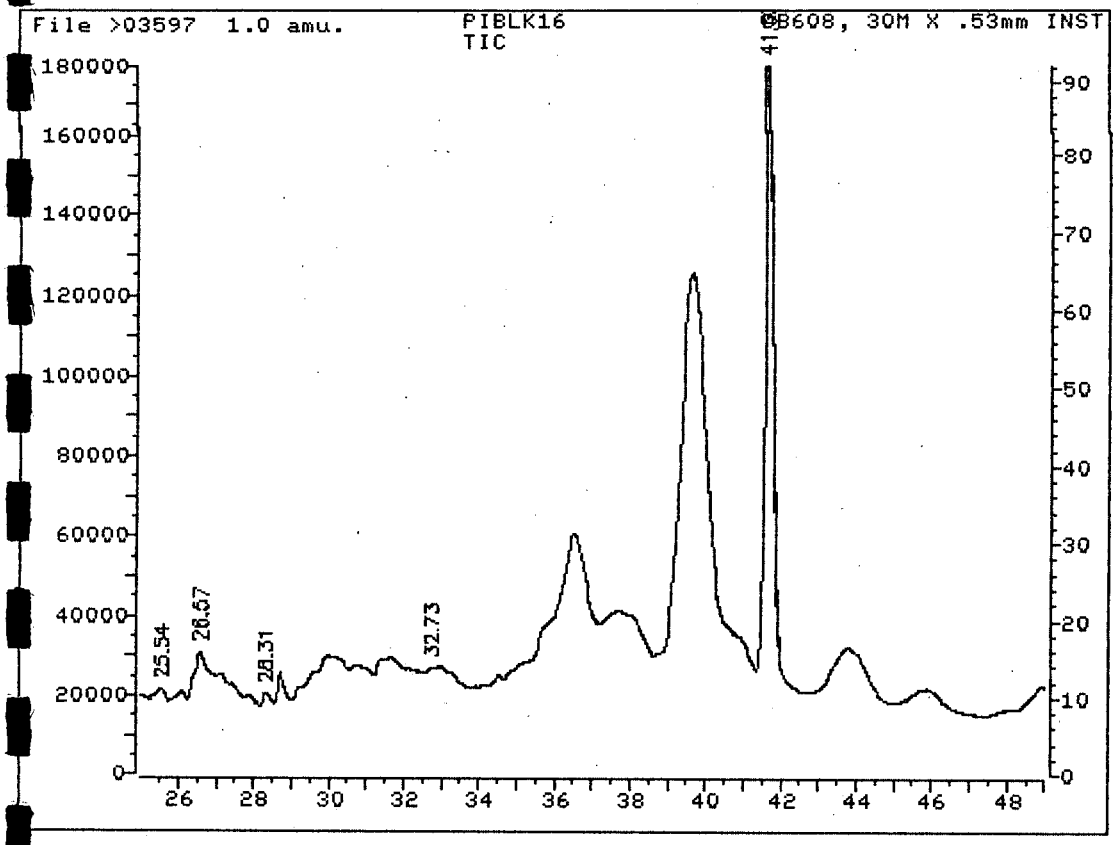
Page 2 of 2



MS data file header from : >03597::G4

Sample: PIBLK16 Operator: TRFI2 7/31/96 20:57
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03597::G4

Sample: PIBLK16 Operator: TRFI2 7/31/96 20:57
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

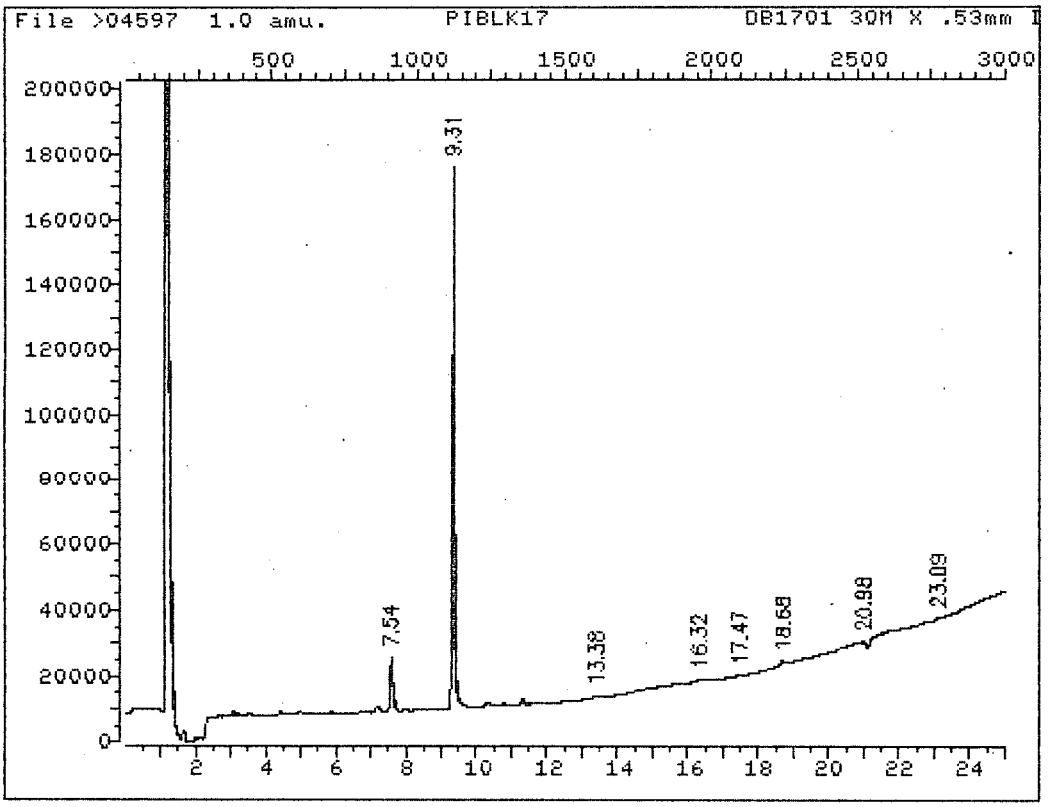
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960801 16:52
Output File: ^03597::F3 Injected at: 960731 20:57
Data File: >03597::G4 Dilution Factor: 1.00000
Name: PIBLK16 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903; 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	2716113	21.11	ng/ml	100
8)	#~~Heptachlor epoxide~~ OW	19.87	2384	6273	.0485	ng/ml	100
12)	#~~Endrin~~ OW	24.90	2988	15199	.171	ng/ml	100
14)	#~~4,4'-DDD~~ NC	25.54	3064	51801	.848	ng/ml	100
15)	#~~Endosulfan Sulfate~~ NC	28.31	3397	18583	.208	ng/ml	100
18)	#~~Endrin ketone~~ NC	32.73	3927	5974	.0633	ng/ml	100
19)	#Decachlorobiphenyl	41.63	4995	2599991	21.83	ng/ml	100
21)	#~~gamma-Chlordane~~ OW	20.88	2506	23417	.185	ng/ml	100
22)	#~~Toxaphene(1)~~ NP	23.58	2830	8287	5.05	ng/ml	100
29)	#~~Aroclor-1260(1)~~ NP	24.39	2927	14259	2.29	ng/ml	100
32)	#~~Toxaphene(3)~~ NP	28.31	3397	18583	8.66	ng/ml	100
53)	#~~Aroclor-1254(4)~~ NP	23.58	2830	8287	1.33	ng/ml	100
54)	#~~Aroclor-1254(5)~~ NP	24.90	2988	15199	4.20	ng/ml	100
55)	#~~Aroclor-1260(2)~~ NP	24.90	2988	15199	2.17	ng/ml	100
56)	#~~Aroclor-1260(3)~~ NP	26.57	3188	249787	36.51	ng/ml	100

Compound uses ESTD

EPuce
8/8/96

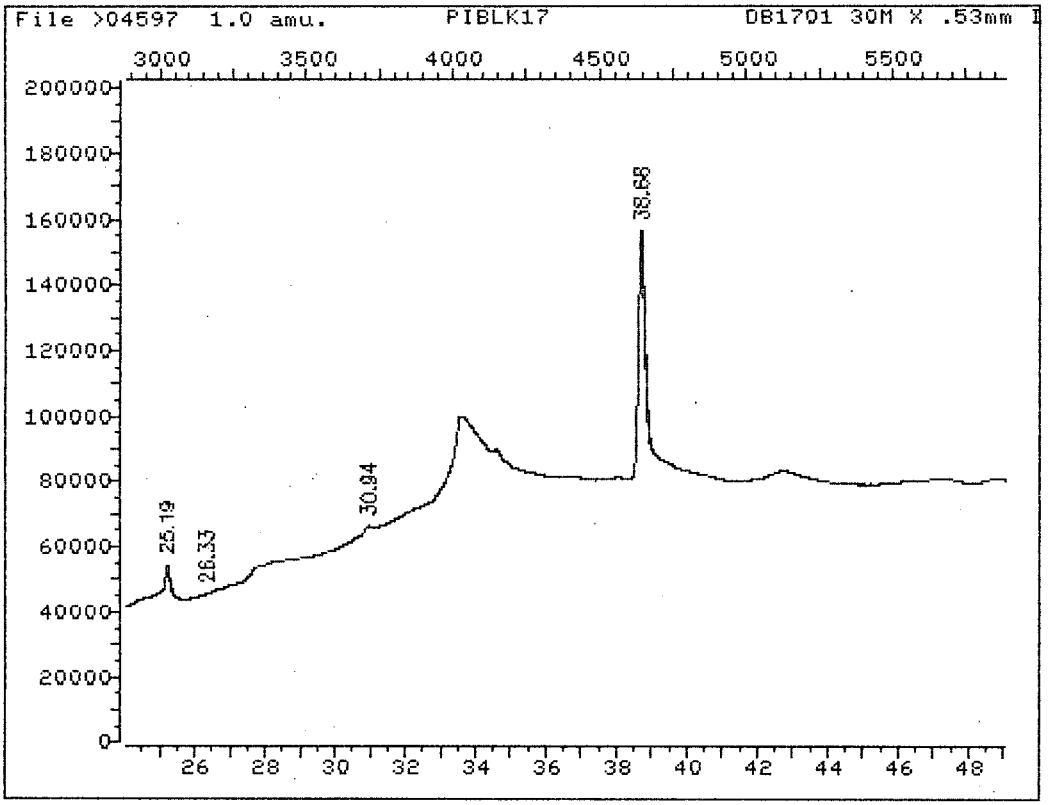


Data File: >04597::G5 Quant Output File: ^04597::F3
Name: PIBLK17 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960801 16:23
Injected at: 960731 20:57

Page 1 of 2

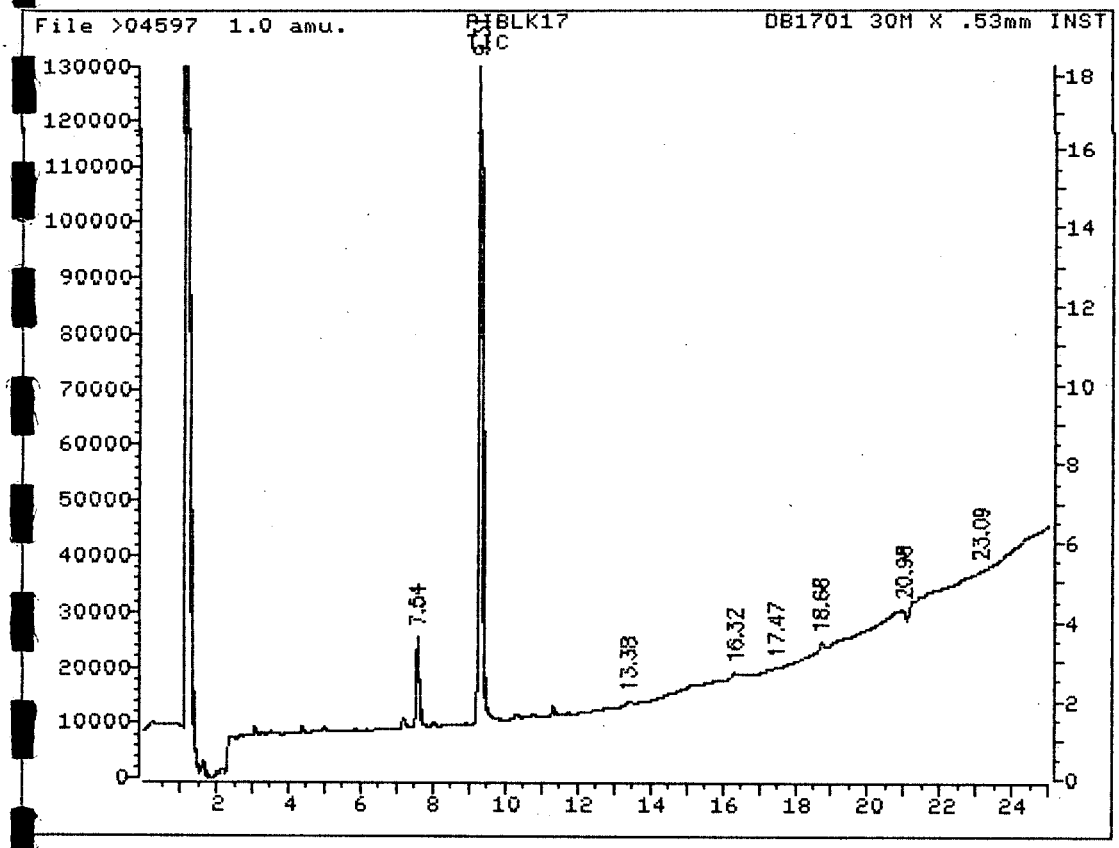


Data File: >04597::G5 Quant Output File: ^04597::F3
Name: PIBLK17 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960801 16:23
Injected at: 960731 20:57

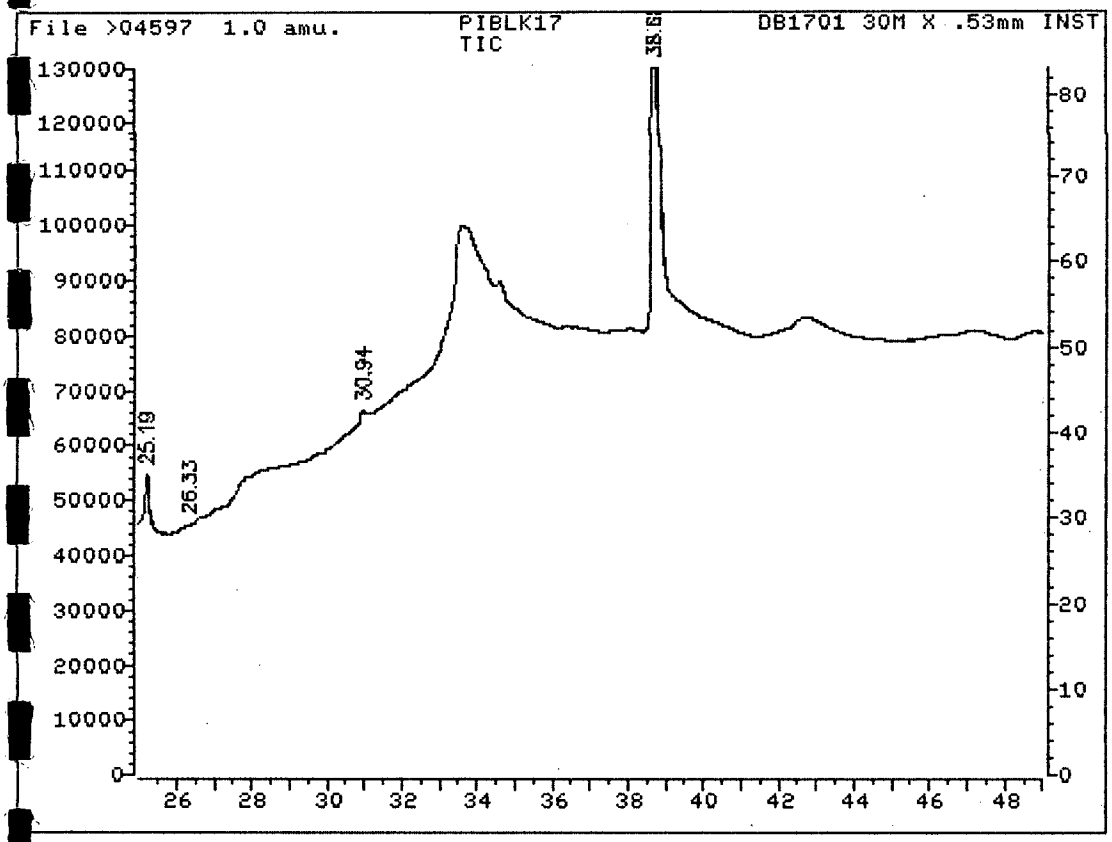
Page 2 of 2



MS data file header from : >04597::G5

Sample: PIBLK17 Operator: TRFI2 7/31/96 20:57
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04597::G5

Sample: PIBLK17 Operator: TRFI2 7/31/96 20:57
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960801 16:23
Output File: ^04597::F3 Injected at: 960731 20:57
Data File: >04597::G5 Dilution Factor: 1.00000
Name: PIBLK17 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	898869	20.20	ng/ml	100
2)	~~#alpha BH~~C NC	13.38	1606	15131	.458	ng/ml	100
3)	~~#beta BH~~C NC	18.68	2242	15159	.595	ng/ml	100
6)	~~#Heptachlor~~ NC	16.32	1958	9249	.193	ng/ml	100
7)	~~#Aldrin~~ NC	17.47	2096	8717	.226	ng/ml	100
14)	~~#4,4'-DDD~~ OW	26.33	3159	23156	1.22	ng/ml	100
17)	~~#Methoxychlor~~ NC	30.94	3712	168760	13.00	ng/ml	100
19)	#Decachlorobiphenyl	38.68	4641	1144186	24.33	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	25.19	3023	127465	234.77	ng/ml	100
24)	~~#Aroclor 1221(~~1) NP	7.54	905	86339	80.99	ng/ml	100
25)	~~#Aroclor-1232(1~~) NP	7.54	905	86339	49.06	ng/ml	100
28)	~~#Aroclor-1254(~~1) NP	17.47	2096	8717	5.43	ng/ml	100
37)	~~#Aroclor-1016(~~5) NP	18.68	2242	15159	7.67	ng/ml	100
46)	~~#Aroclor-1242(~~5) NP	17.47	2096	8717	10.60	ng/ml	100
48)	~~#Aroclor-1248(3~~) NP	18.68	2242	15159	6.78	ng/ml	100
52)	~~#Aroclor-1254(~~3) NP	20.98	2517	43806	26.19	ng/ml	100
53)	~~#Aroclor-1254(~~4) NP	23.09	2771	49185	20.32	ng/ml	100

Compound uses ESTD

EPma
8/8/94

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK17

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: PIBLK17

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03598

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

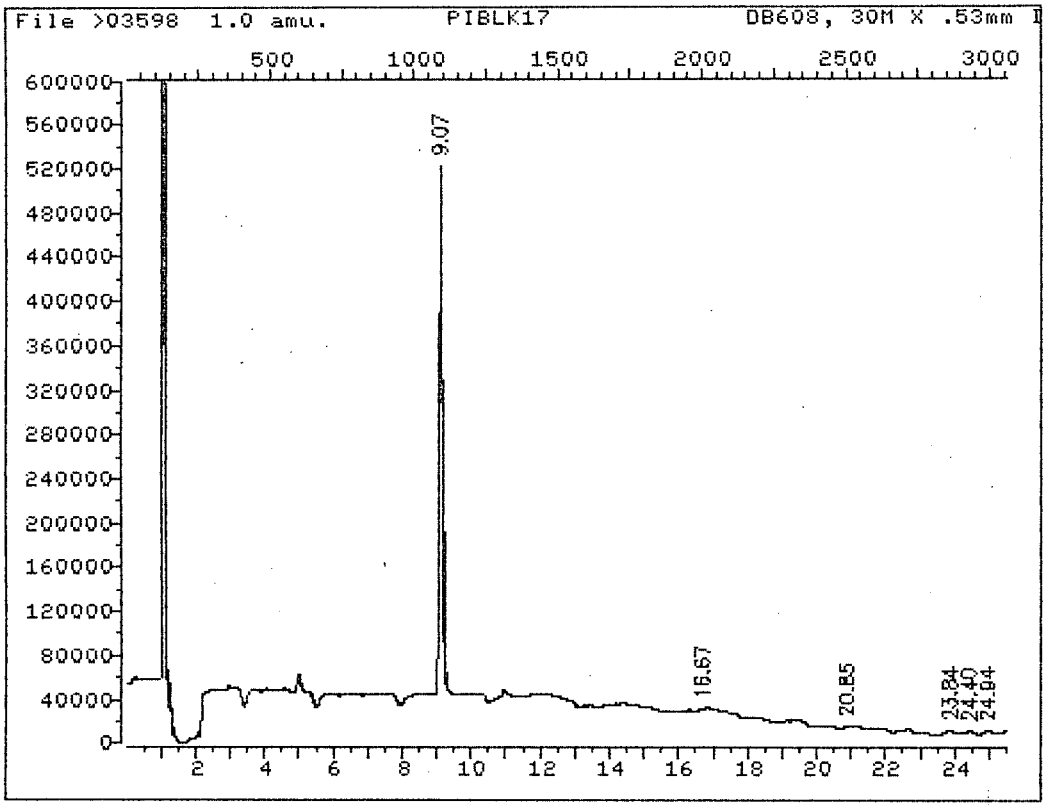
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/31/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

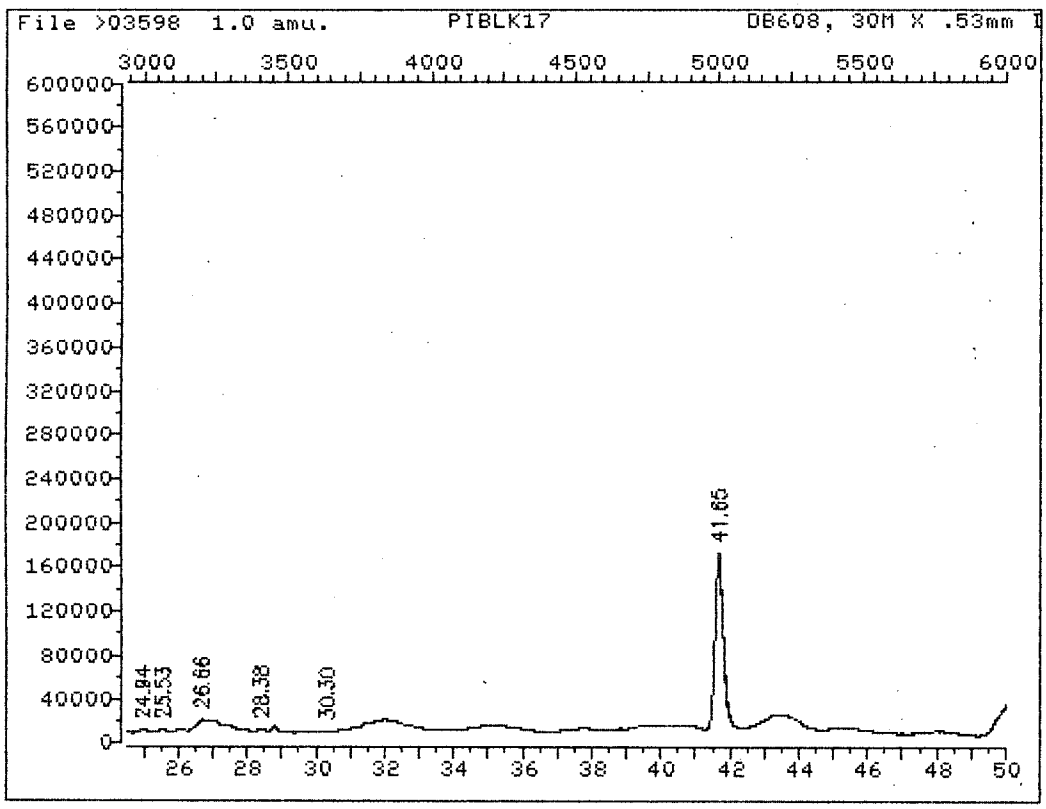


Data File: >03598::G4 Quant Output File: ^03598::F3
Name: PIBLK17 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960801 16:54
Injected at: 960731 21:51

Page 1 of 2

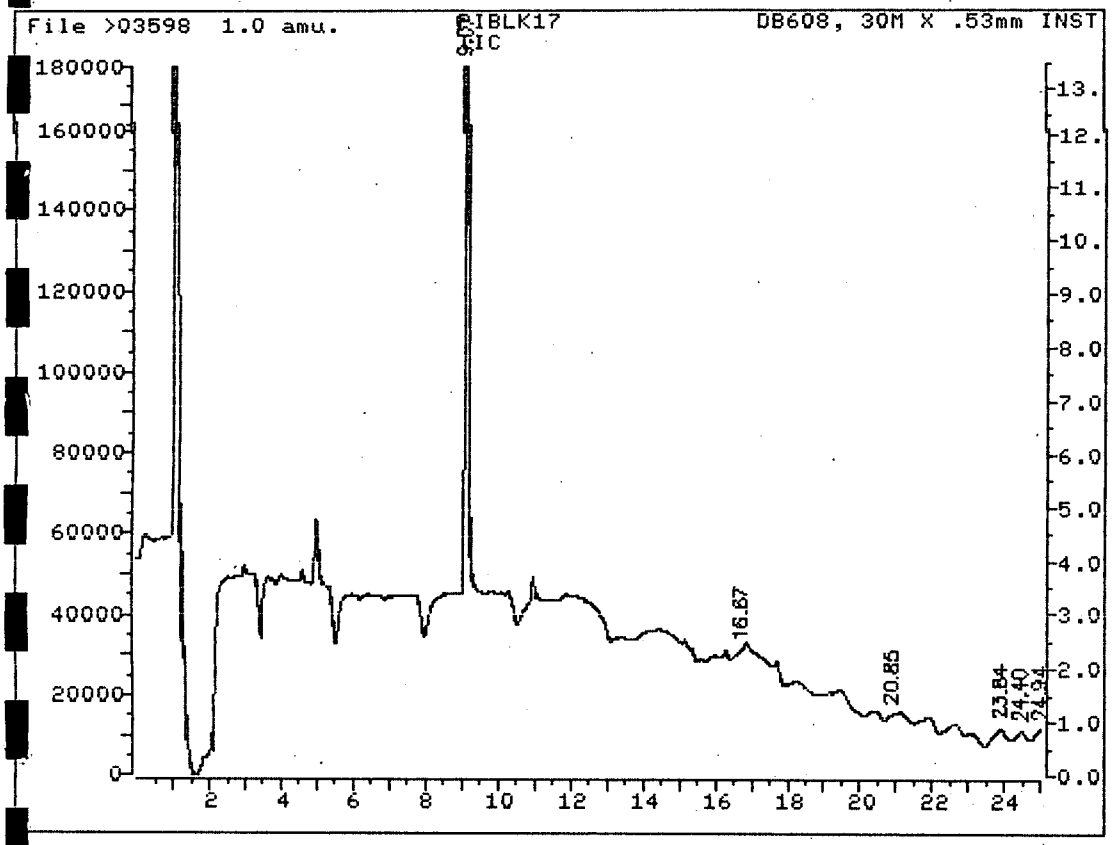


Data File: >03598::G4 Quant Output File: ^03598::F3
Name: PIBLK17 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960801 16:54
Injected at: 960731 21:51

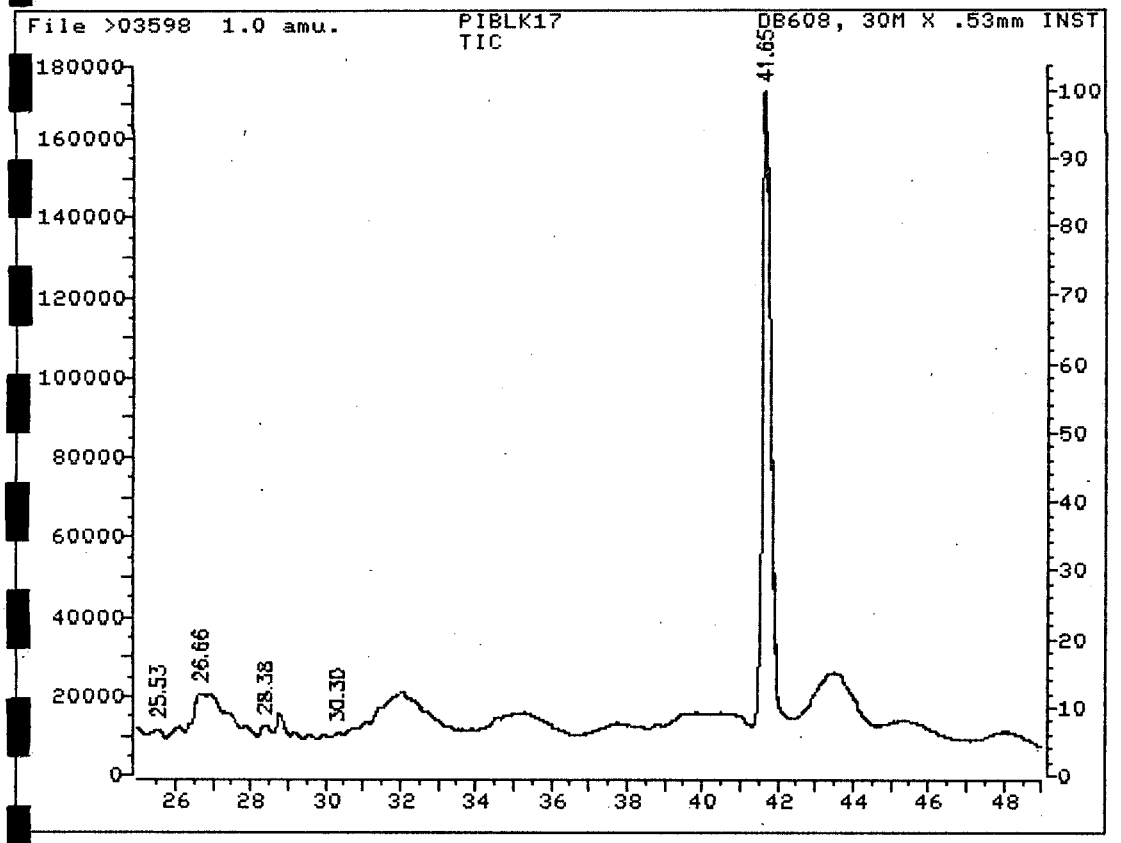
Page 2 of 2



MS data file header from : >03598::G4

Sample: PIBLK17 Operator: TRFI2 7/31/96 21:51
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03598::G4

Sample: PIBLK17 Operator: TRFI2 7/31/96 21:51
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

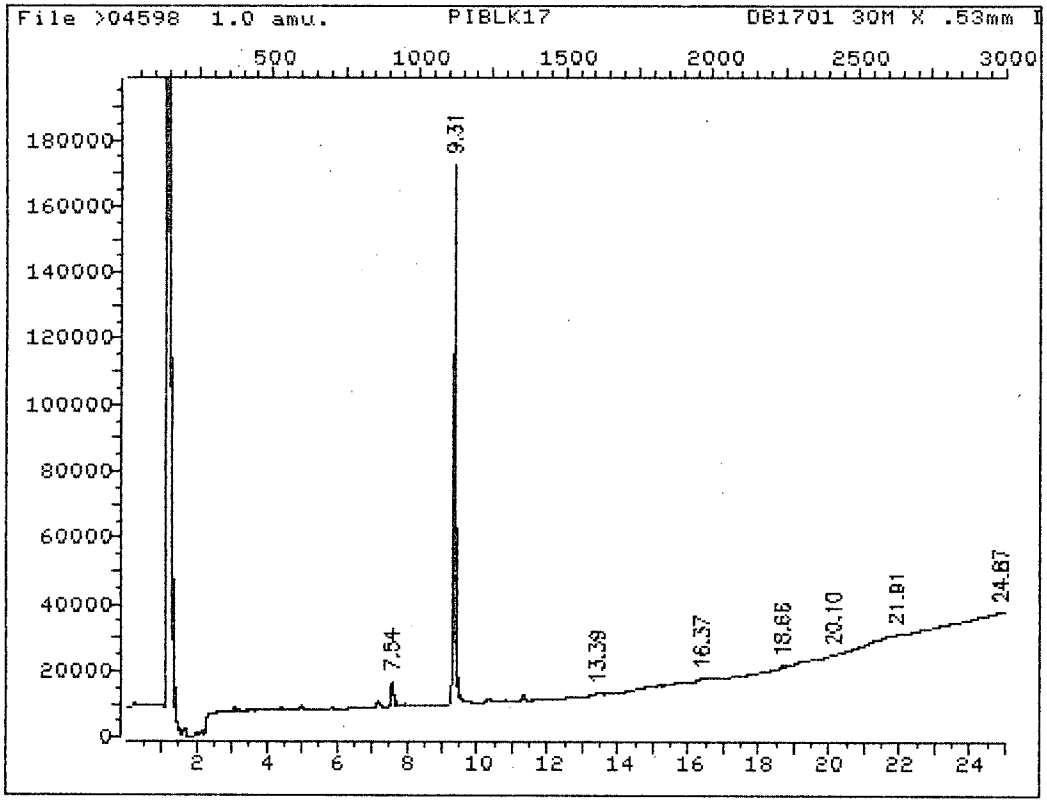
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960801 16:54
Output File: ^03598::F3 Injected at: 960731 21:51
Data File: >03598::G4 Dilution Factor: 1.00000
Name: PIBLK17 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	2726929	21.19	ng/ml	100
4)	~~#delta-BHC~~ OW	16.67	2000	15931	.122	ng/ml	100
12)	~~#Endrin~~ OW	24.94	2992	19878	.223	ng/ml	100
14)	#4,4'-DDD	25.53	3063	36051	.590	ng/ml	100
15)	~~#Endosulfan Sulfate~~ OW	28.38	3405	37902	.424	ng/ml	100
19)	#Decachlorobiphenyl	41.65	4998	2529753	21.24	ng/ml	100
21)	~~#gamma-Chlordane~~ OW	20.85	2502	7216	.0569	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.84	2861	86569	52.78	ng/ml	100
28)	~~#Aroclor 1254(1)~~ NP	20.85	2502	7216	1.47	ng/ml	100
29)	~~#Aroclor 1260(1)~~ NP	24.40	2928	11900	1.91	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.38	3405	37902	17.67	ng/ml	100
33)	~~#Toxaphene(4)~~ NP	30.30	3636	9214	4.71	ng/ml	100
36)	~~#Aroclor 1016(4)~~ NP	16.67	2000	13659	3.58	ng/ml	100
42)	~~#Aroclor 1232(4)~~ NP	16.67	2000	13659	8.06	ng/ml	100
45)	~~#Aroclor 1242(4)~~ NP	16.67	2000	13659	4.09	ng/ml	100
54)	~~#Aroclor 1254(5)~~ NP	24.94	2992	19878	5.49	ng/ml	100
55)	~~#Aroclor 1260(2)~~ NP	24.94	2992	19878	2.84	ng/ml	100
56)	~~#Aroclor 1260(3)~~ NP	26.66	3199	155261	22.69	ng/ml	100
57)	~~#Aroclor 1260(4)~~ NP	30.30	3636	9214	.738	ng/ml	100

Compound uses ESTD

EPma
8/8/96



Data File: >04598::G5 Quant Output File: ^04598::F3
Name: PIBLK17 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960801 16:25
Injected at: 960731 21:51

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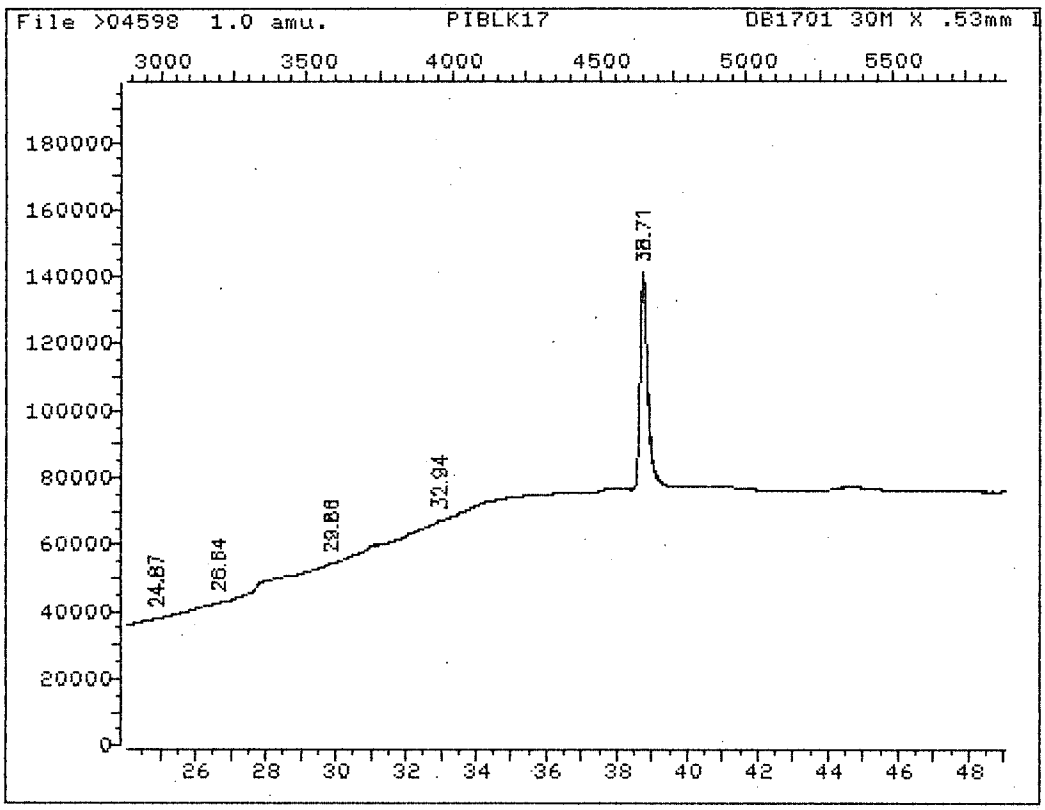
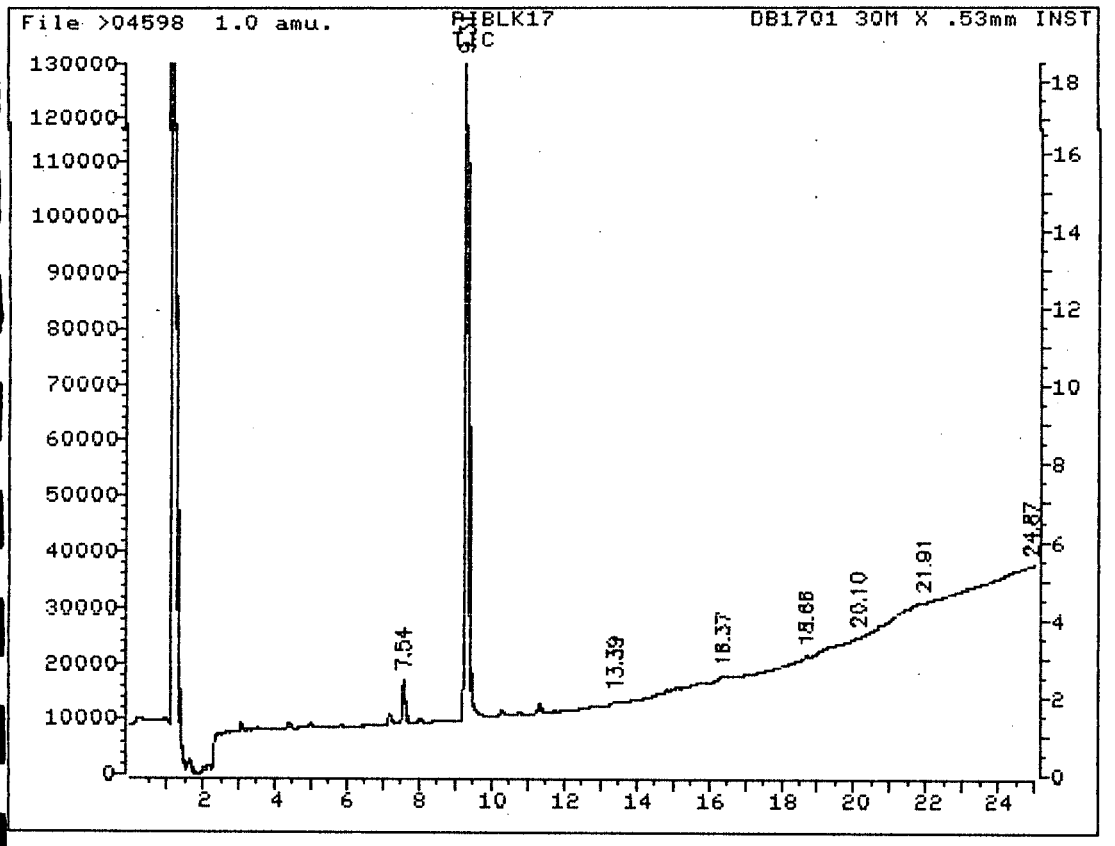


Data File: >04598::G5 Quant Output File: ^04598::F3
Name: PIBLK17 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960801 16:25
Injected at: 960731 21:51

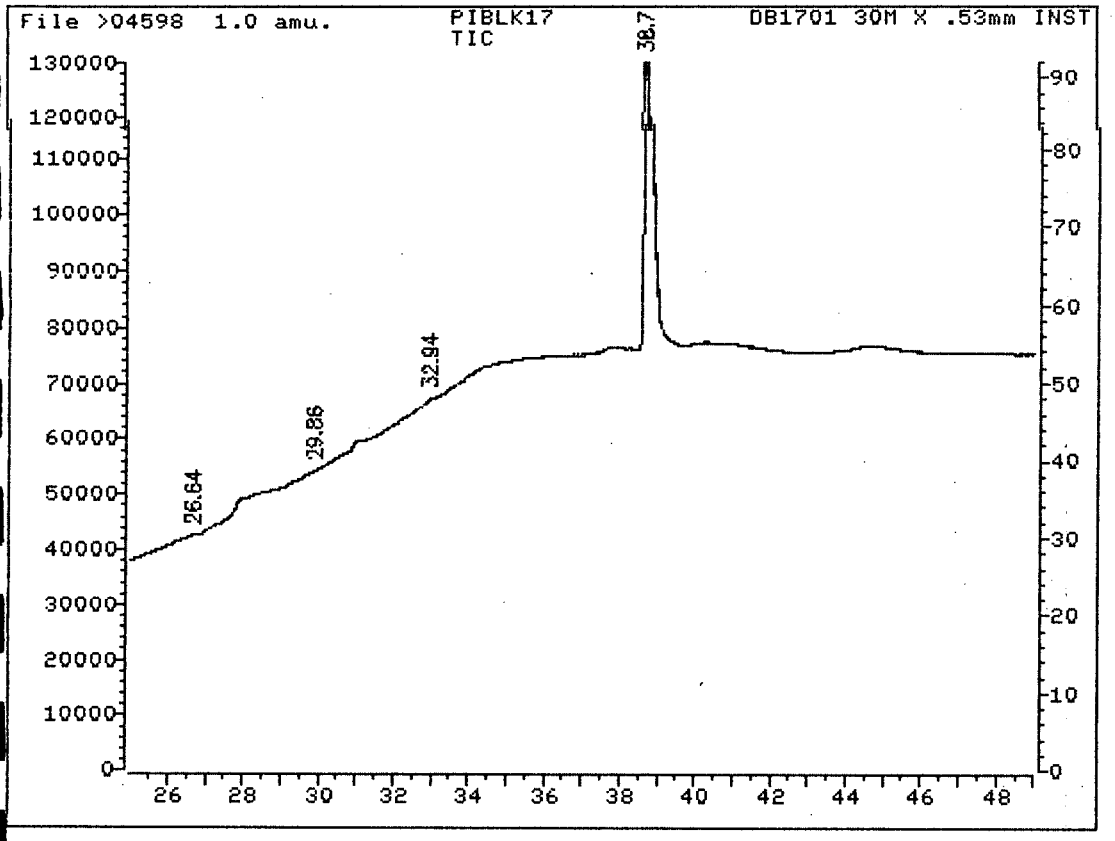
Page 2 of 2



MS data file header from : >04598::G5

Sample: PIBLK17 Operator: TRFI2 7/31/96 21:51
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04598::G5

Sample: PIBLK17 Operator: TRFI2 7/31/96 21:51
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960801 16:25
Output File: ^04598::F3 Injected at: 960731 21:51
Data File: >04598::G5 Dilution Factor: 1.00000
Name: PIBLK17 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	894926	20.11	ng/ml	100
2)	~~#alpha-BHC~~ NC	13.39	1607	8010	.243	ng/ml	100
3)	~~#beta-BHC~~ NC	18.66	2239	46174	1.81	ng/ml	100
6)	~~#Heptachlor~~ NC	16.37	1964	6357	.133	ng/ml	100
13)	~~#Endosulfan I~~ NC	26.64	3197	33707	.957	ng/ml	100
14)	~~#4,4'-DDD~~ OW	26.64	3197	59456	3.14	ng/ml	100
18)	~~#Endrin ketone~~ NC	32.94	3953	76916	2.33	ng/ml	100
19)	#Decachlorobiphenyl	38.71	4645	947622	20.15	ng/ml	100
21)	~~#gamma-Chlordane~~ NC	21.91	2629	18271	.447	ng/ml	100
24)	#A~~roclor 1221~~(1) NP	7.54	905	40591	38.08	ng/ml	100
25)	#~~Aroclor-1232~~(1) NP	7.54	905	40591	23.06	ng/ml	100
36)	~~#Aroclor-1016~~(4) NP	16.37	1964	7125	4.78	ng/ml	100
37)	~~#Aroclor-1016~~(5) NP	18.66	2239	49802	25.18	ng/ml	100
45)	~~#Aroclor 1242~~(4) NP	16.37	1964	7125	6.29	ng/ml	100
48)	~~#Aroclor 1248~~(3) NP	18.66	2239	49802	22.26	ng/ml	100
51)	~~#Aroclor-1254~~(2) NP	20.10	2412	12918	6.46	ng/ml	100
55)	~~#Aroclor 1260~~(2) NP	24.87	2984	32190	11.85	ng/ml	100
57)	~~#Aroclor-1260~~(4) NP	29.86	3583	27437	6.44	ng/ml	100

Compound uses ESTD

E Pria
8/8/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK18

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: PIBLK18

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03606

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

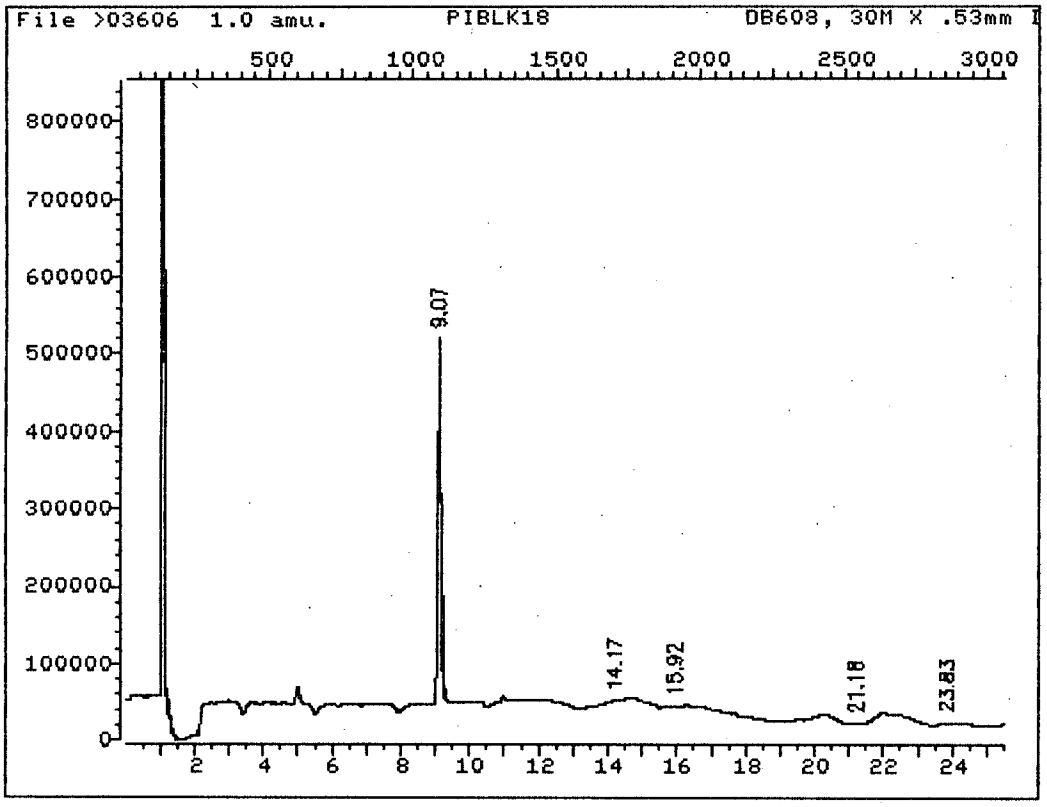
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/01/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U



Data File: >03606::G4 Quant Output File: ^03606::F3
Name: PIBLK18 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:42
Injected at: 960801 03:40

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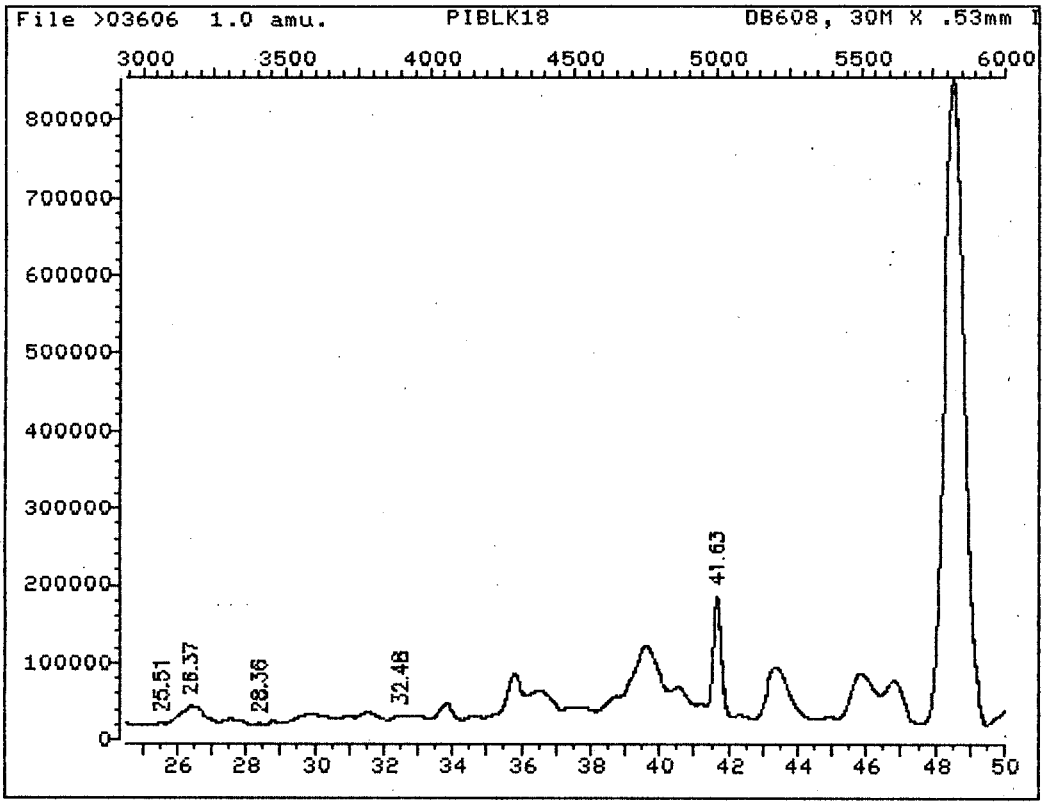

Data File: >03606::G4 Quant Output File: ^03606::F3
Name: PIBLK18 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:42
Injected at: 960801 03:40

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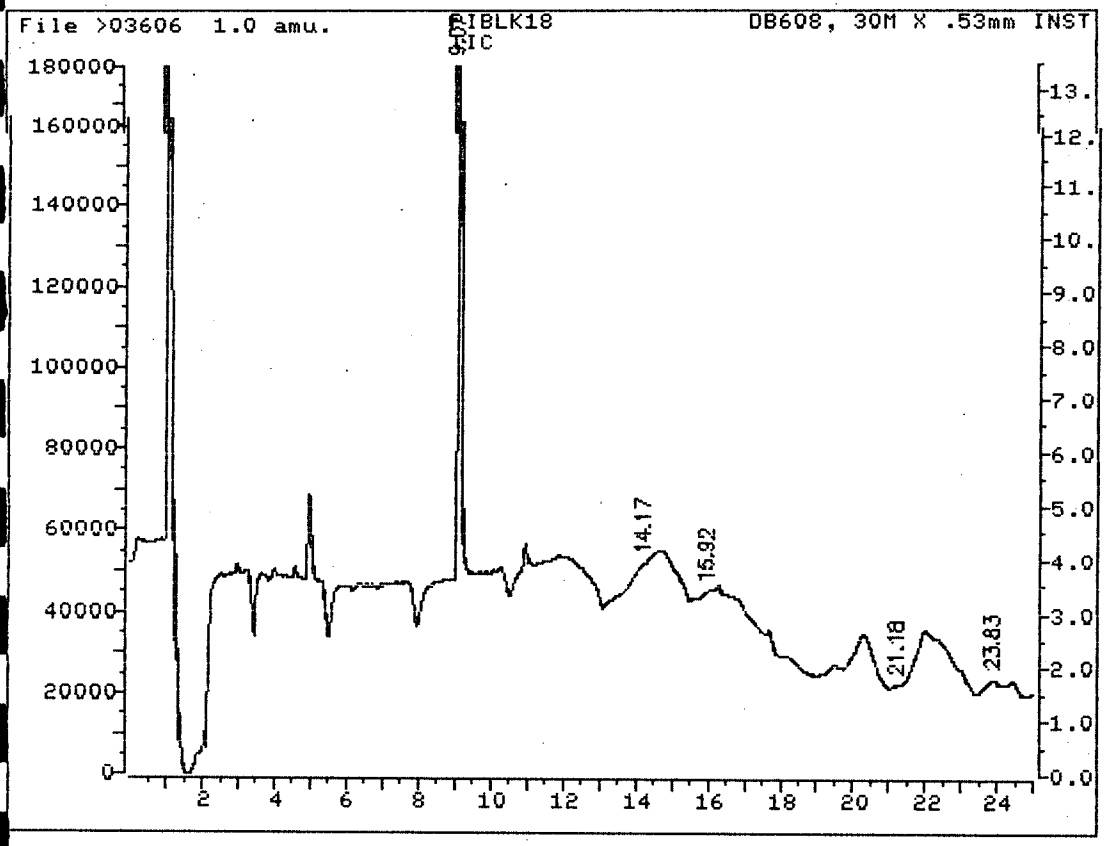
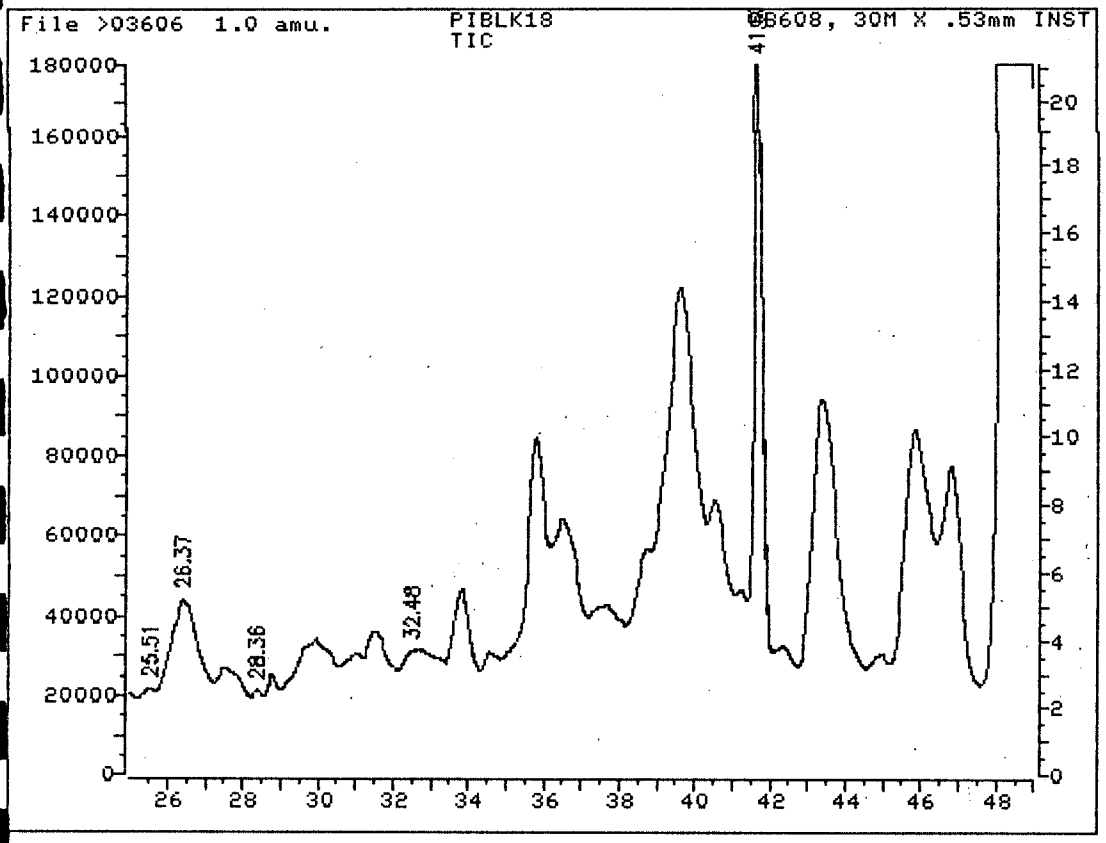


MS data file header from : >03606::G4

Sample: PIBLK18 Operator: TRFI2 8/01/96 3:40
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03606::G4

Sample: PIBLK18 Operator: TRFI2 8/01/96 3:40
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

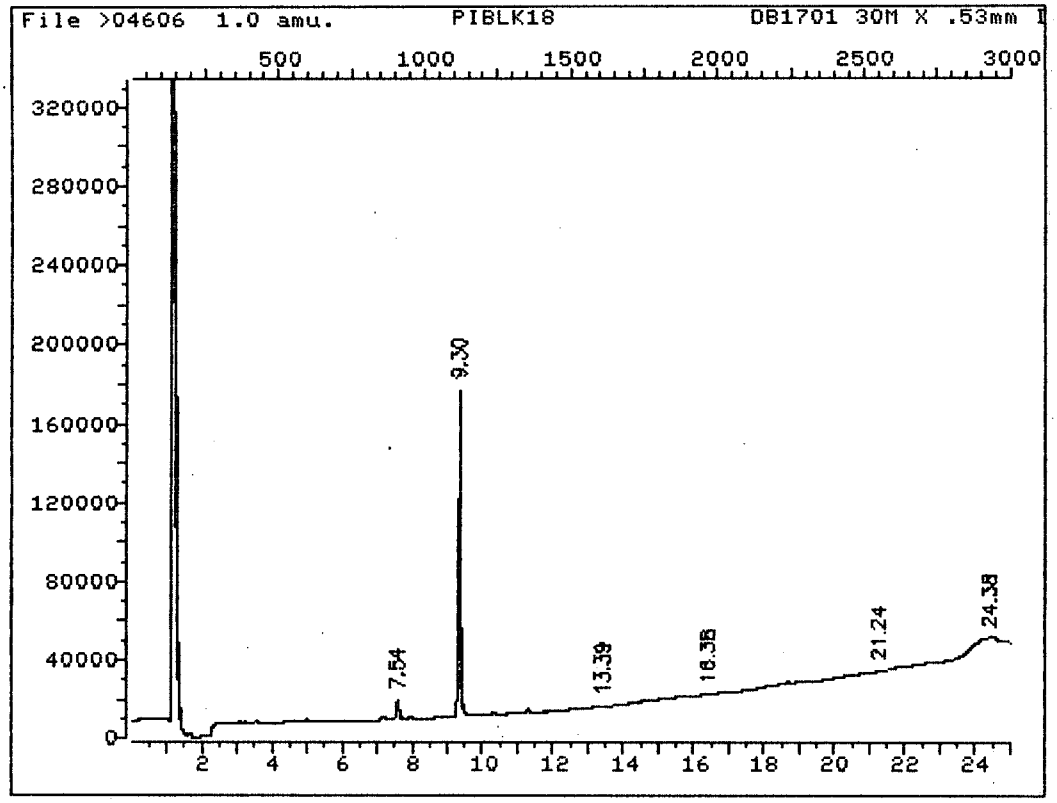
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960813 09:42
Output File: ^03606::F3 Injected at: 960801 03:40
Data File: >03606::G4 Dilution Factor: 1.00000
Name: PIBLK18 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	2696476	20.96	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~ OW	14.17	1701	109844	.779	ng/ml	100
6)	~~#Heptachlor~~ OW	15.92	1910	9324	.0805	ng/ml	100
14)	~~#4,4'-DDD~~ OW	25.51	3061	42716	.699	ng/ml	100
15)	~~#Endosulfan Sulfate~~ <1/2 CRQL	28.36	3403	20560	.230	ng/ml	100
17)	~~#Methoxychlor~~ NC	32.48	3897	61484	1.56	ng/ml	100
19)	#Decachlorobiphenyl	41.63	4996	2325559	19.52	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.83	2859	52015	31.72	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	15.92	1910	9324	1.27	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.36	3403	20560	9.58	ng/ml	100
34)	~~#Aroclor-1016(2)~~ NP	14.17	1701	126684	21.51	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	15.92	1910	9324	.840	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.17	1701	129204	50.63	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	15.92	1910	9324	2.04	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	14.17	1701	129204	28.39	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	15.92	1910	9324	1.06	ng/ml	100
51)	~~#Aroclor-1254(2)~~ NP	21.18	2541	5057	.868	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	26.37	3164	378363	55.30	ng/ml	100

Compound uses ESTD

EPrice
8/13/96



Data File: >04606::G5 Quant Output File: ^04606::F3
Name: PIBLK18 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:54
Injected at: 960801 03:40

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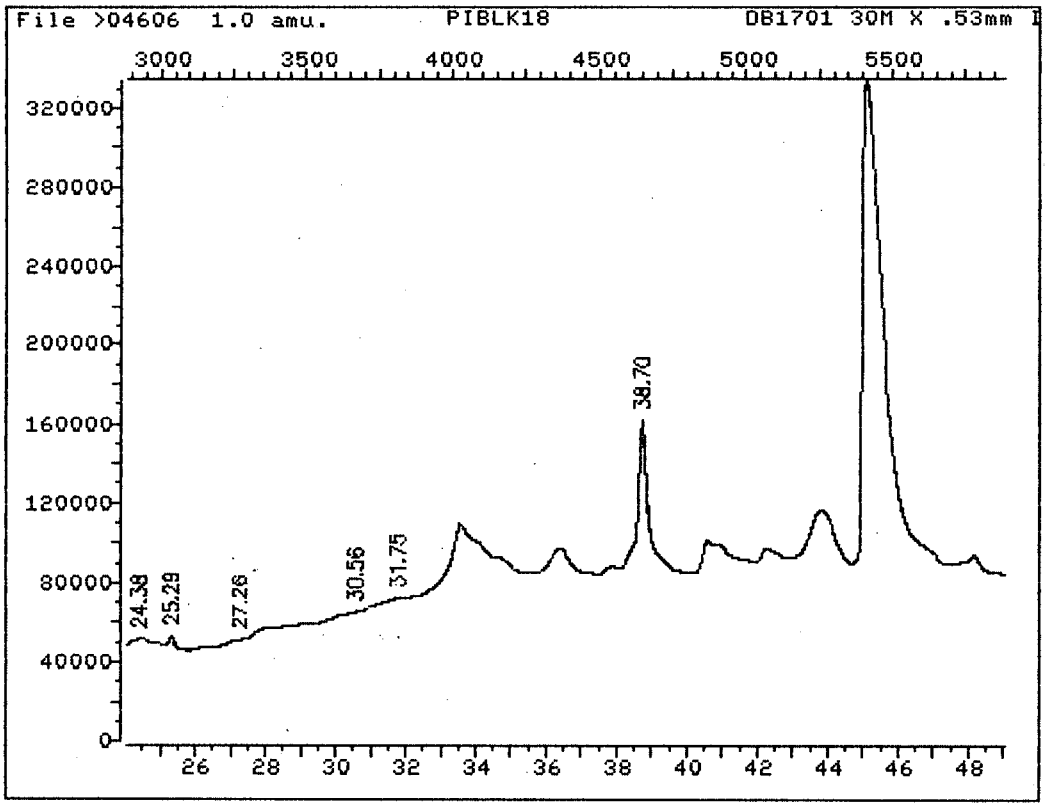

Data File: >04606::G5 Quant Output File: ^04606::F3
Name: PIBLK18 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:54
Injected at: 960801 03:40

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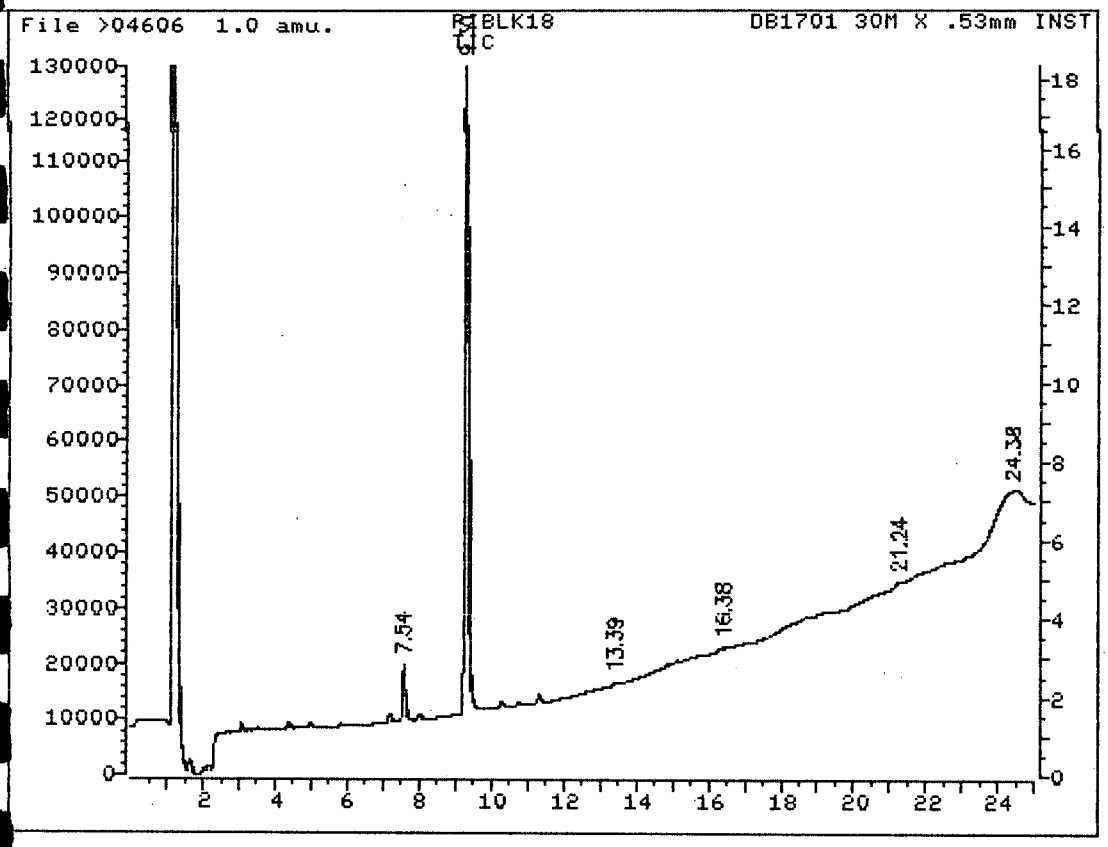
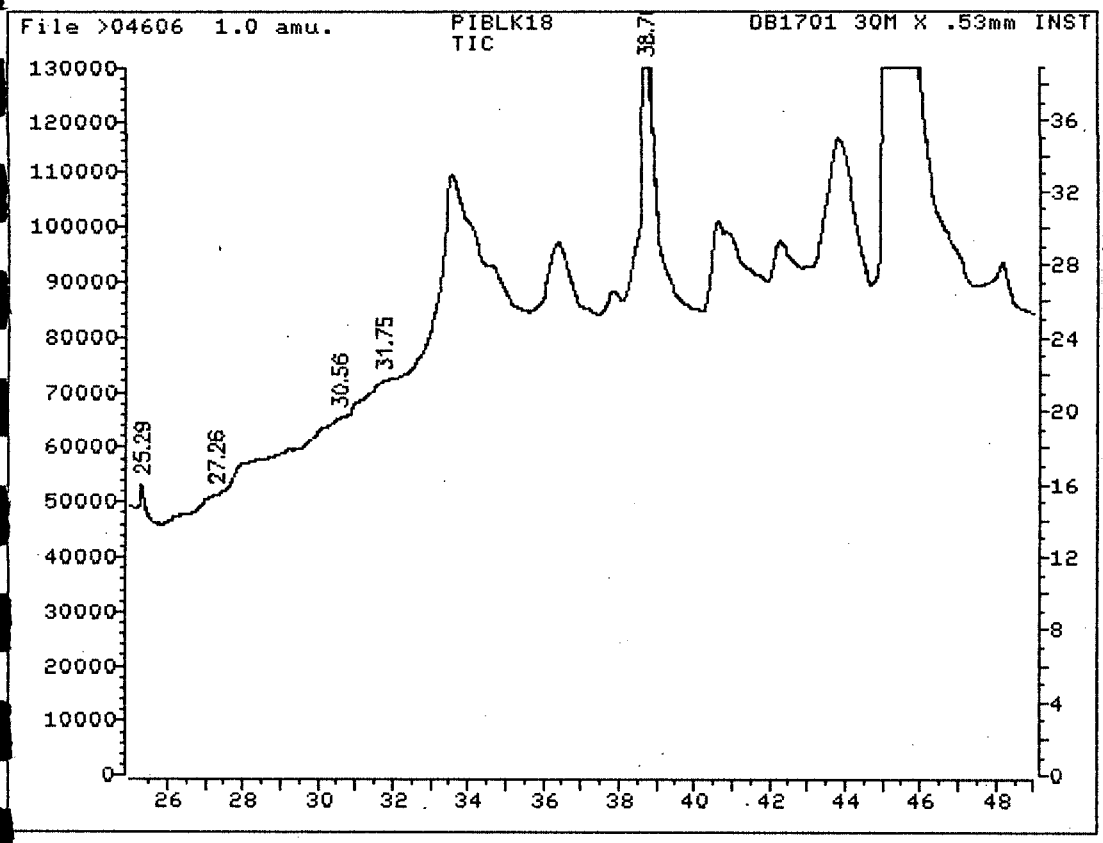


MS data file header from : >04606::G5

Sample: PIBLK18 Operator: TRFI2 8/01/96 3:40
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04606::G5

Sample: PIBLK18 Operator: TRFI2 8/01/96 3:40
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960813 09:54
Output File: ^04606::F3 Injected at: 960801 03:40
Data File: >04606::G5 Dilution Factor: 1.00000
Name: PIBLK18 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

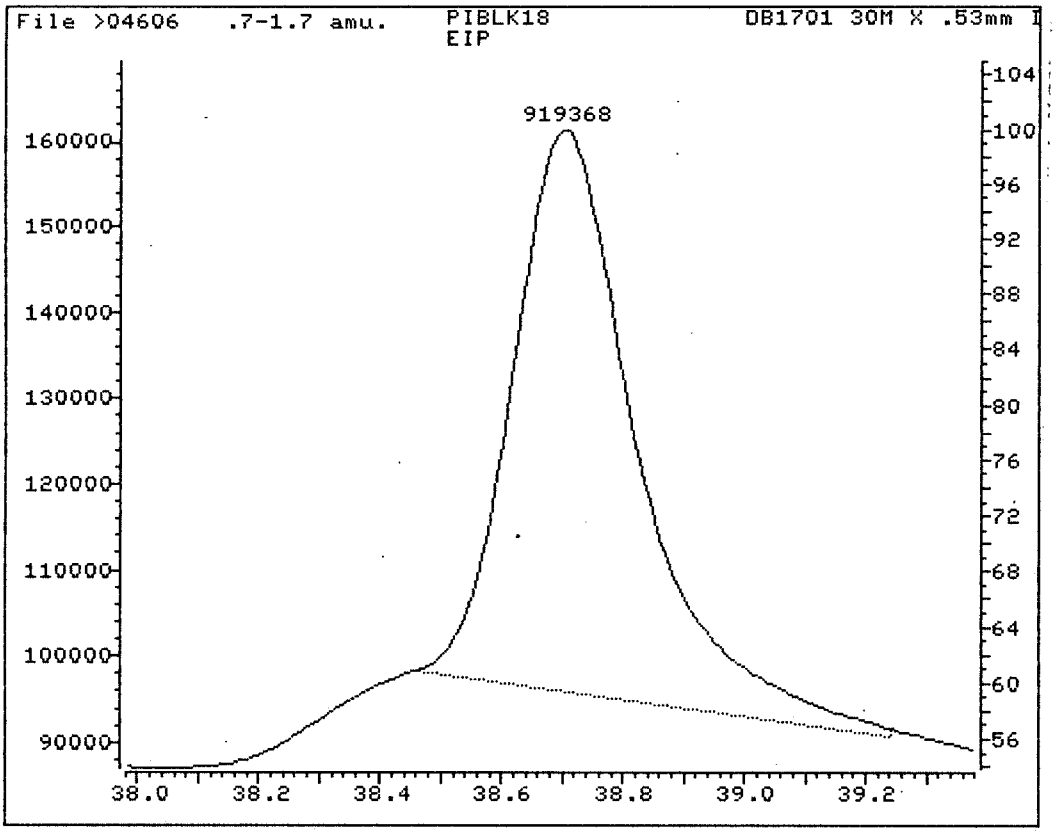
ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Tetrachloro-m-xylene	9.30	1116	900359	20.24	ng/ml	100
~~2) #alpha-BHC~~	13.39	1607	5048	.153	ng/ml	100
~~6) #Heptachlor~~	16.38	1966	10182	.213	ng/ml	100
~~12) #Endrin~~	24.38	2926	233792	7.89	ng/ml	100
~~15) #Endosulfan Sulfate~~	30.56	3667	75548	2.79	ng/ml	100
~~16) #4,4'-DDT~~	27.26	3271	9792	.577	ng/ml	100
19) #Decachlorobiphenyl	38.70	4644	919368M	19.55	ng/ml	100
~~22) #Toxaphene(1)~~ MP	25.29	3035	62375	114.89	ng/ml	100
~~24) #Aroclor-1221(1)~~ MP	7.54	905	53926	50.59	ng/ml	100
~~25) #Aroclor-1232(1)~~ MP	7.54	905	53926	30.64	ng/ml	100
~~33) #Toxaphene(4)~~ MP	31.75	3810	6536	13.01	ng/ml	100
~~36) #Aroclor-1016(4)~~ MP	16.38	1966	12482	8.37	ng/ml	100
~~45) #Aroclor-1242(4)~~ MP	16.38	1966	12482	11.02	ng/ml	100
~~52) #Aroclor-1254(3)~~ MP	21.24	2549	12190	7.29	ng/ml	100

Compound uses ESTD

@ 8/15/96

8/15/96



Data File: >04606::G5 Quant Output File: ^04606::F3
Name: PIBLK18 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960813 09:54 Quant ID File: IDCAP2::SC
Injected at: 960801 03:40 Last Calibration: 941029 10:07

Compound No: 19
Compound Name: Decachlorobiphenyl
Scan Number: 4644
Retention Time: 38.70 min.
Quant Ion: 1.0
Area: 919368M
Concentration: 19.55 ng/ml
q-value: 100

This report was produced by QAREA on: 960815 12:18

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK19

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: PIBLK19

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03607

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

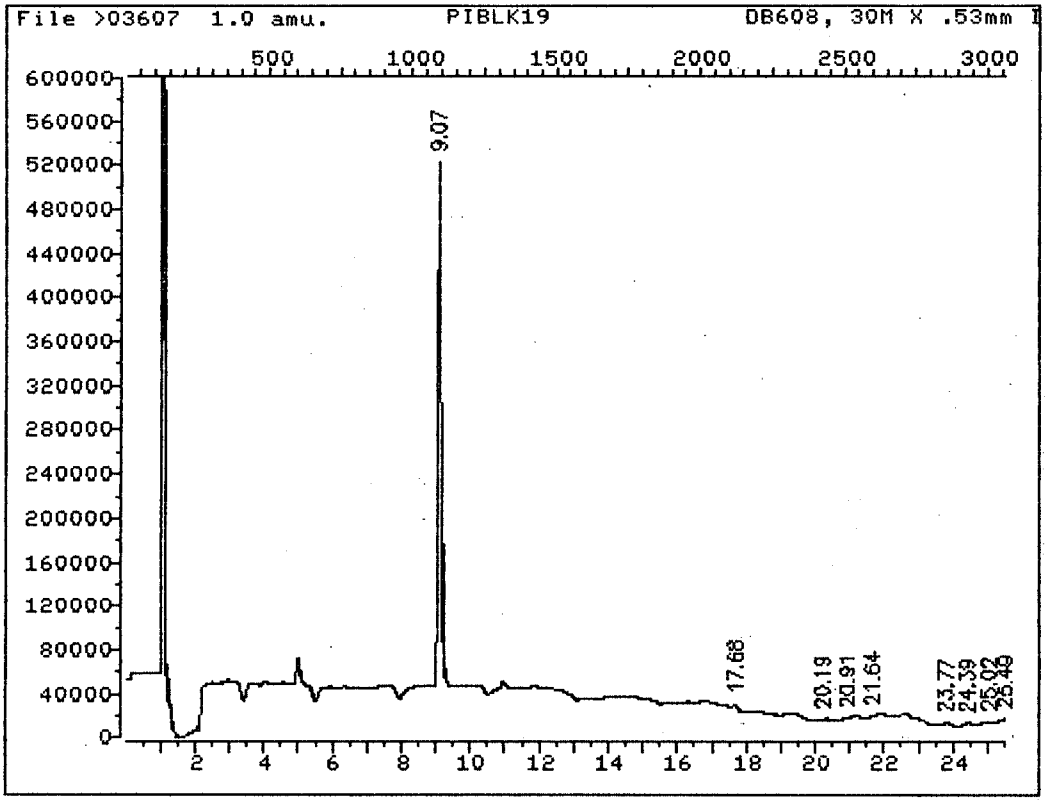
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/01/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U



Data File: >03607::G4 Quant Output File: ^03607::F3
Name: PIBLK19 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:43
Injected at: 960801 04:35

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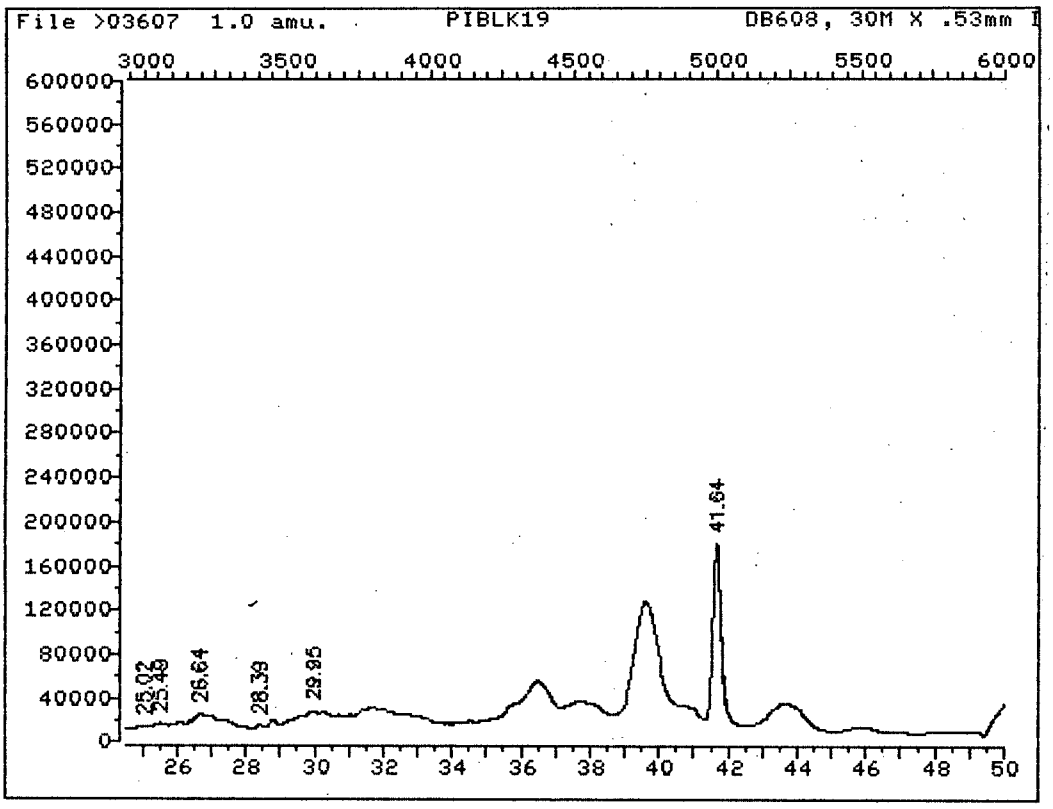
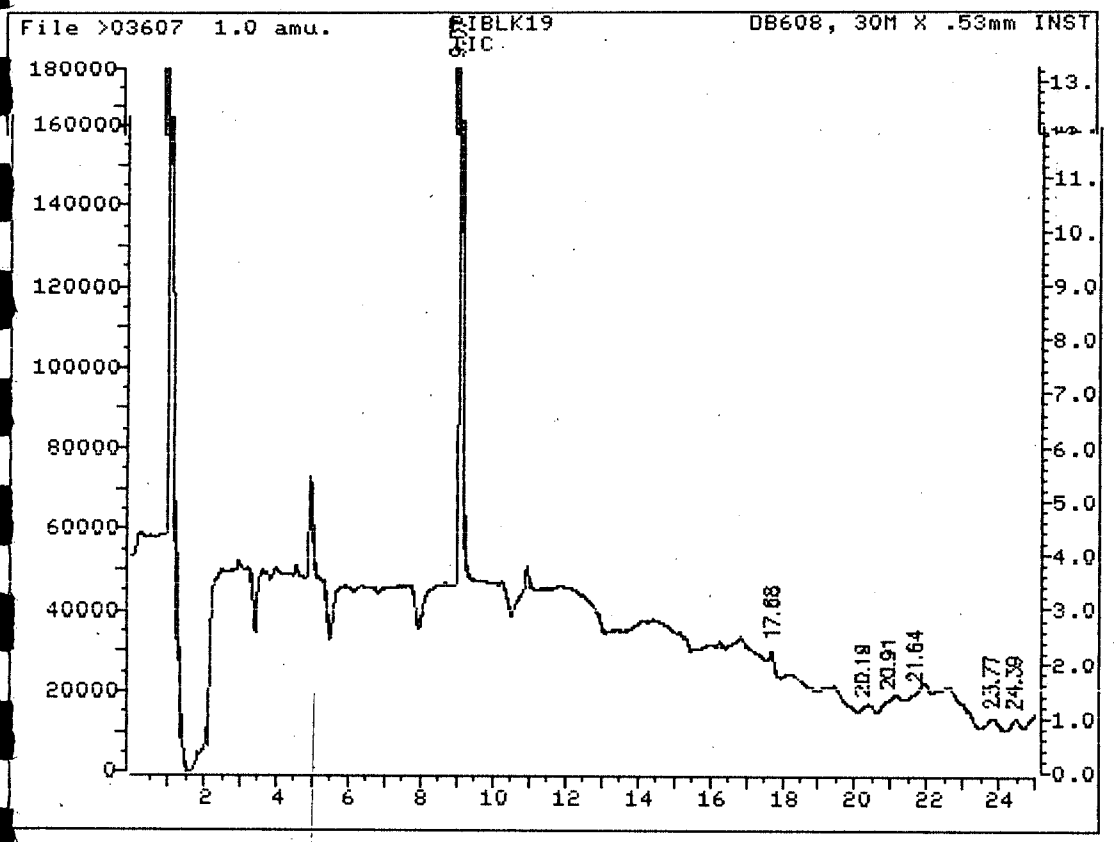


Data File: >03607::G4 Quant Output File: ^03607::F3
Name: PIBLK19 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:43
Injected at: 960801 04:35

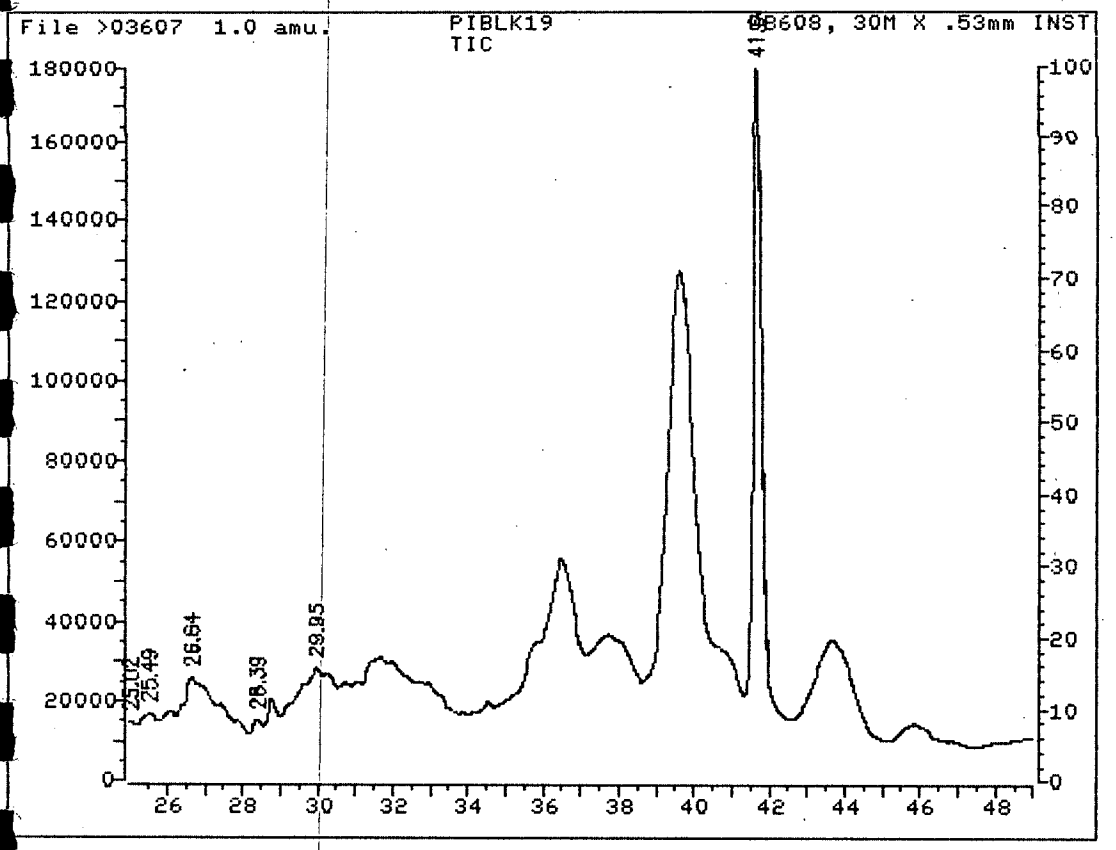
Page 2 of 2



MS data file header from : >03607::G4

Sample: PIBLK19 Operator: TRFI2 8/01/96 4:35
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03607::G4

Sample: PIBLK19 Operator: TRFI2 8/01/96 4:35
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960813 09:43
Output File: ^03607::F3 Injected at: 960801 04:35
Data File: >03607::G4 Dilution Factor: 1.00000
Name: PIBLK19 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	2729108	21.21	ng/ml	100
8)	#~~Heptachlor epoxide~~ OW	20.19	2423	5191	.0402	ng/ml	100
9)	#~~Endosulfan I~~ NC	21.64	2597	7597	.0700	ng/ml	100
14)	#~~4,4'-DDD~~ OW	25.49	3059	44308	.725	ng/ml	100
15)	#~~Endosulfan Sulfate~~ OW	28.39	3406	46209	.517	ng/ml	100
19)	#Decachlorobiphenyl	41.64	4997	2613109	21.94	ng/ml	100
20)	#~~alpha-Chlordane~~ OW	21.64	2597	7597	.0613	ng/ml	100
21)	#~~gamma-Chlordane~~ OW	20.91	2509	26745	.211	ng/ml	100
22)	#~~Toxaphene~~(1) ND	23.77	2852	7675	4.68	ng/ml	100
28)	#~~Aroclor 1254(1)~~ ND	20.91	2509	26745	5.45	ng/ml	100
29)	#~~Aroclor-1260(1)~~ ND	24.39	2927	15874	2.55	ng/ml	100
32)	#~~Toxaphene(3)~~ ND	28.39	3406	46209	21.54	ng/ml	100
47)	#~~Aroclor 1248(2)~~ ND	17.68	2121	52172	16.71	ng/ml	100
50)	#~~Aroclor-1248(5)~~ ND	21.64	2597	7597	1.85	ng/ml	100
54)	#~~Aroclor 1254(5)~~ ND	25.02	3002	56071	15.48	ng/ml	100
55)	#~~Aroclor-1260(2)~~ ND	25.02	3002	56071	8.02	ng/ml	100
56)	#~~Aroclor-1260(3)~~ ND	26.64	3196	101268	14.80	ng/ml	100
57)	#~~Aroclor-1260(4)~~ ND	29.95	3594	59396	4.76	ng/ml	100

Compound uses ESTD

LP
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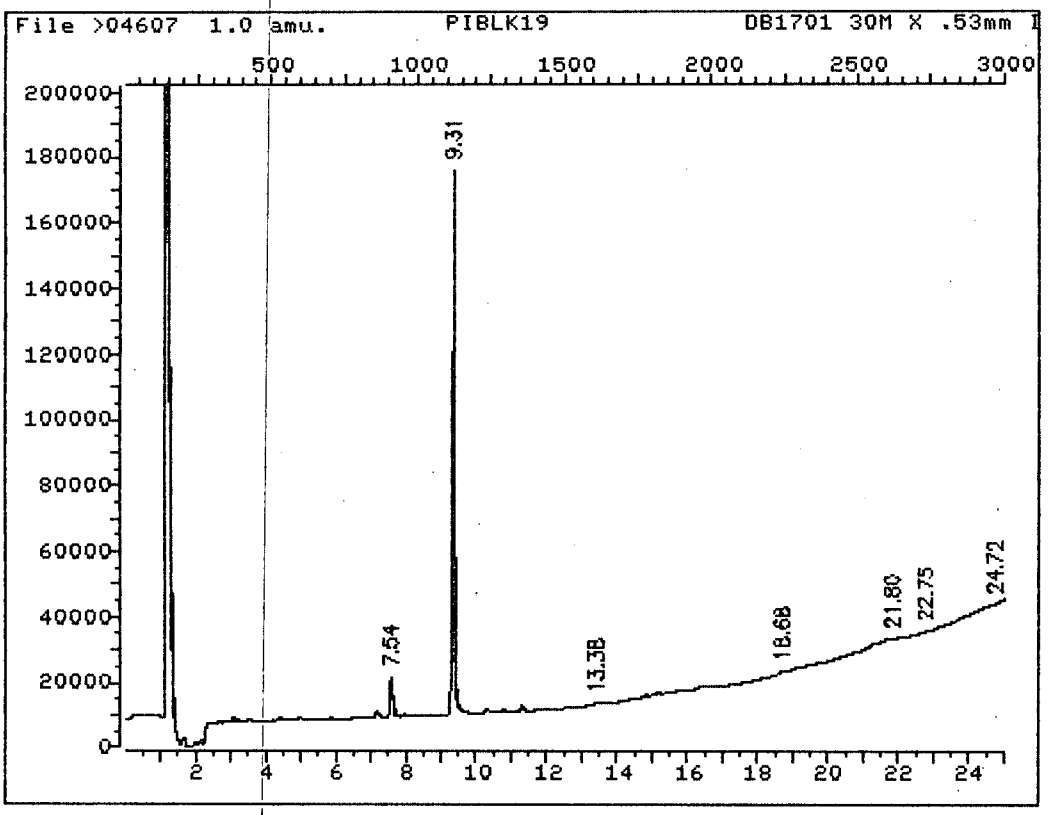
8/13/96



Data File: >04607::G5 Quant Output File: ^04607::F3
Name: PIBLK19 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:55
Injected at: 960801 04:35

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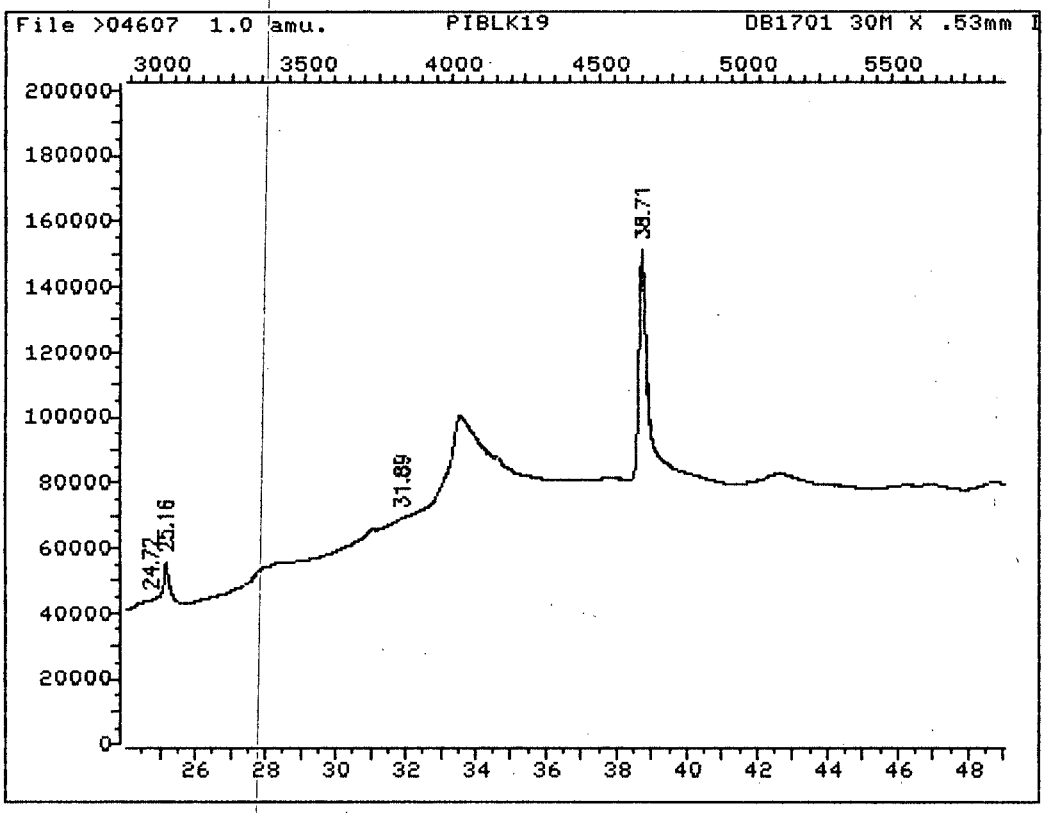
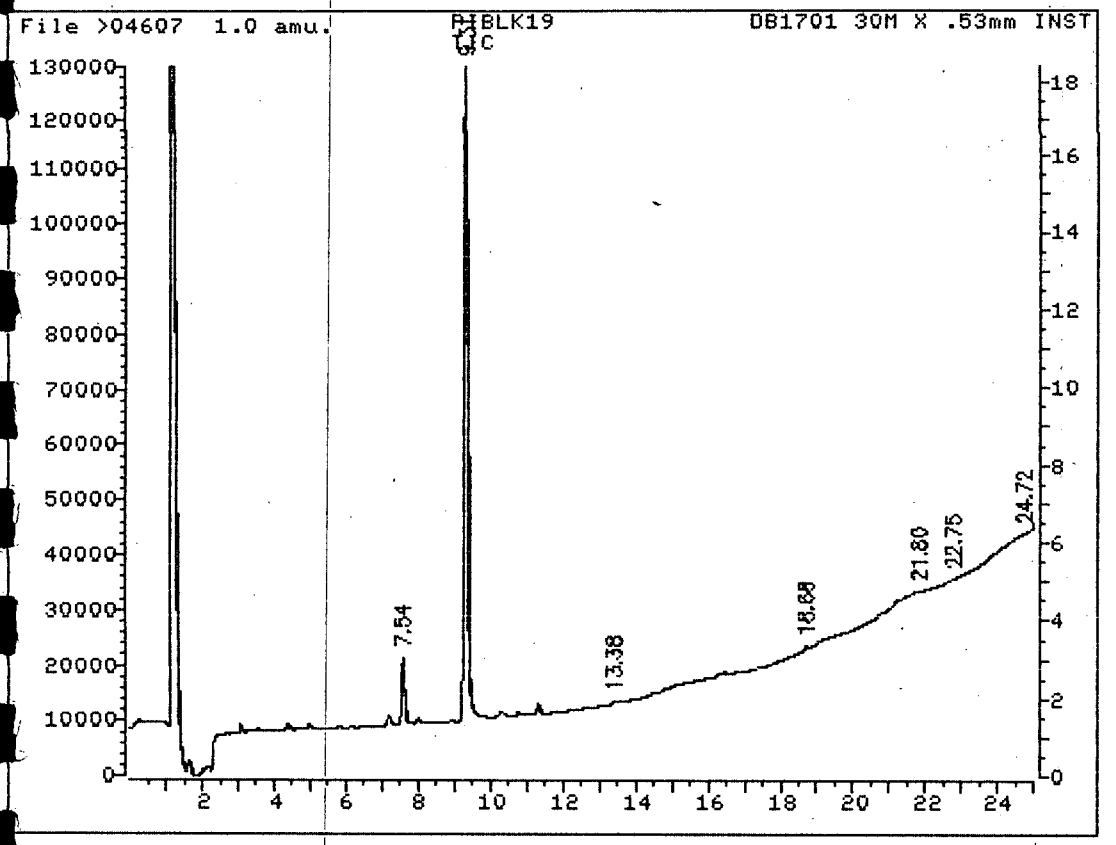


Data File: >04607::G5 Quant Output File: ^04607::F3
Name: PIBLK19 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:55
Injected at: 960801 04:35

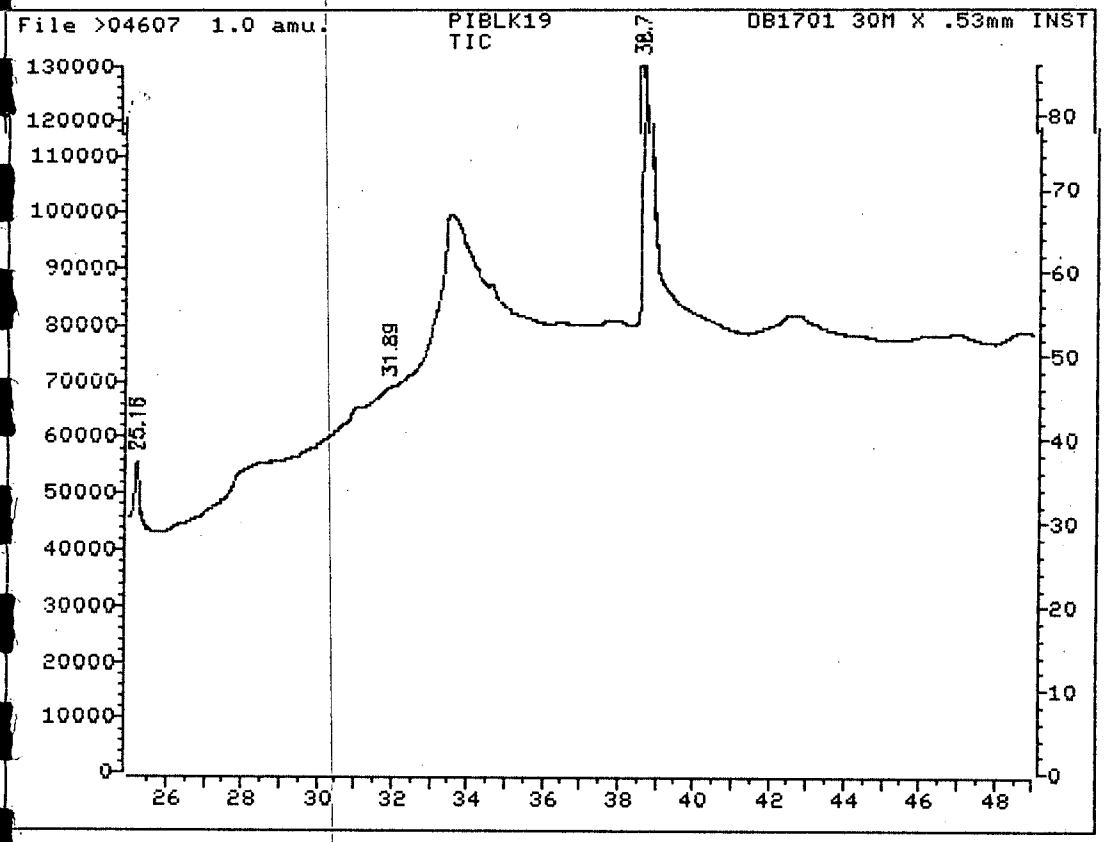
Page 2 of 2



MS data file header from : >04607::G5

Sample: PIBLK19 Operator: TRFI2 8/01/96 4:35
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04607::G5

Sample: PIBLK19 Operator: TRFI2 8/01/96 4:35
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

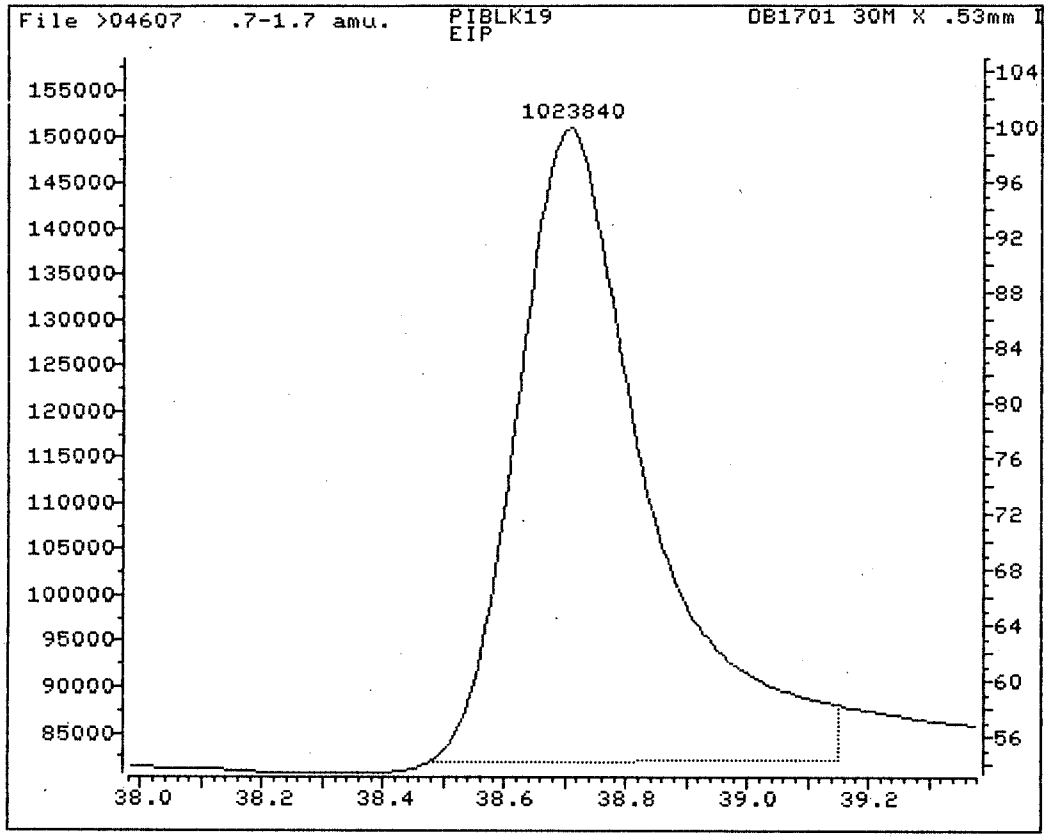
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960813 09:55
Output File: ^04607::F3 Injected at: 960801 04:35
Data File: >04607::G5 Dilution Factor: 1.00000
Name: PIBLK19 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Tetrachloro-m-xylene	9.31	1117	906366	20.37	ng/ml	100
~~2) #alpha-BHC~~	13.38	1606	8984	.272	ng/ml	100
~~3) #beta-BHC~~	18.68	2241	58685	2.30	ng/ml	100
~~11) #4,4'-DDE~~	22.75	2730	11930	.422	ng/ml	100
19) #Decachlorobiphenyl	38.71	4645	1023848M	21.77	ng/ml	100
~~21) #gamma-Chlordane~~	21.80	2616	29142	.712	ng/ml	100
~~22) #Toxaphene(1)~~	25.16	3019	153700	283.09	ng/ml	100
~~24) #Aroclor 1221(1)~~ NP	7.54	905	64393	60.41	ng/ml	100
~~25) #Aroclor 1232(1)~~ NP	7.54	905	64393	36.59	ng/ml	100
~~33) #Toxaphene(4)~~ NP	31.89	3826	69342	137.97	ng/ml	100
~~37) #Aroclor 1016(5)~~ NP	18.68	2241	66787	33.77	ng/ml	100
~~48) #Aroclor 1248(3)~~ NP	18.68	2241	66787	29.85	ng/ml	100
~~55) #Aroclor 1260(2)~~ NP	24.72	2966	33814	12.45	ng/ml	100
~~58) #Aroclor-1260(5)~~ NP	31.89	3826	53003	19.87	ng/ml	100

Compound uses ESTD

8/15/96



Data File: >04607::G5 Quant Output File: ^04607::F3
Name: PIBLK19 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960813 09:55 Quant ID File: IDCAP2::SC
Injected at: 960801 04:35 Last Calibration: 941029 10:07

Compound No: 19
Compound Name: Decachlorobiphenyl
Scan Number: 4645
Retention Time: 38.71 min.
Quant Ion: 1.0
Area: 1023848M
Concentration: 21.77 ng/ml
q-value: 100

This report was produced by QAREA on: 960815 12:19

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RIN3 MS

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: 239994

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03523

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/17/96

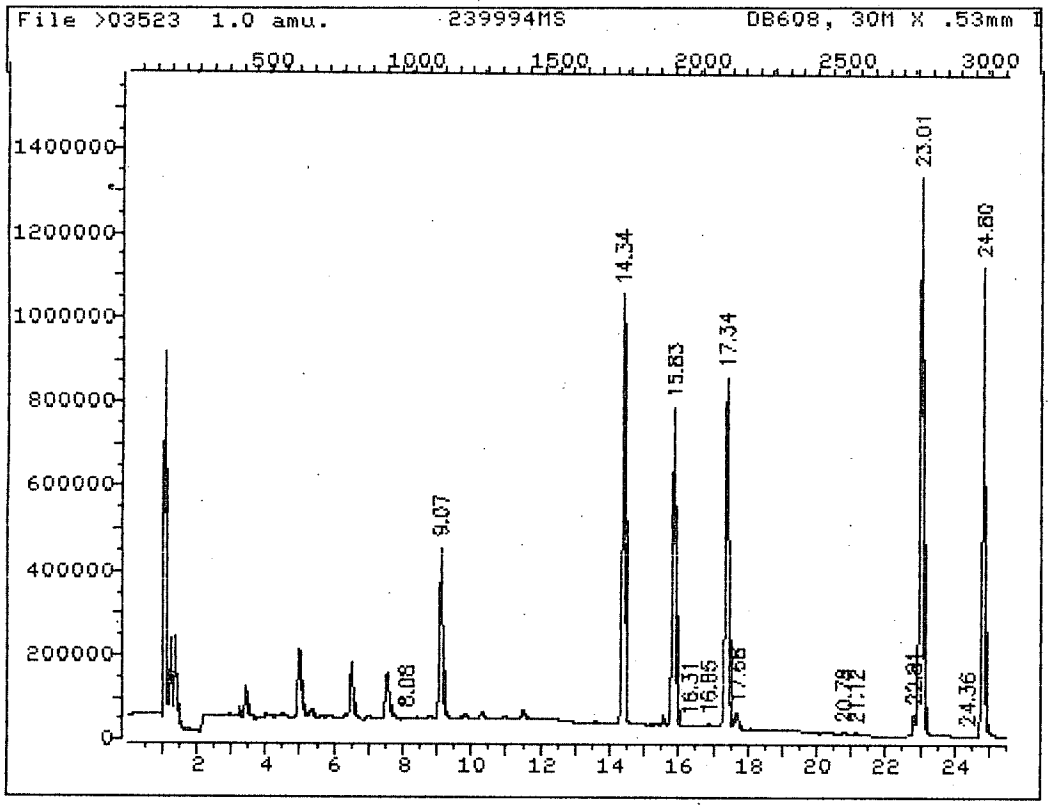
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 07/22/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/27/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC (Lindane)	.40	
76-44-8	Heptachlor	.43	
309-00-2	Aldrin	.39	
1024-57-3	Heptachlor epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.91	
72-55-9	4,4'-DDE	.10	U
72-20-8	Endrin	.90	
33213-65-9	Endosulfan II	.10	U
72-54-8	4,4'-DDD	.10	U
1031-07-8	Endosulfan Sulfate	.10	U
50-29-3	4,4'-DDT	.82	
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.10	U
7421-93-4	Endrin aldehyde	.10	U
5103-71-9	alpha-Chlordane	.050	U
5103-74-2	gamma-Chlordane	.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

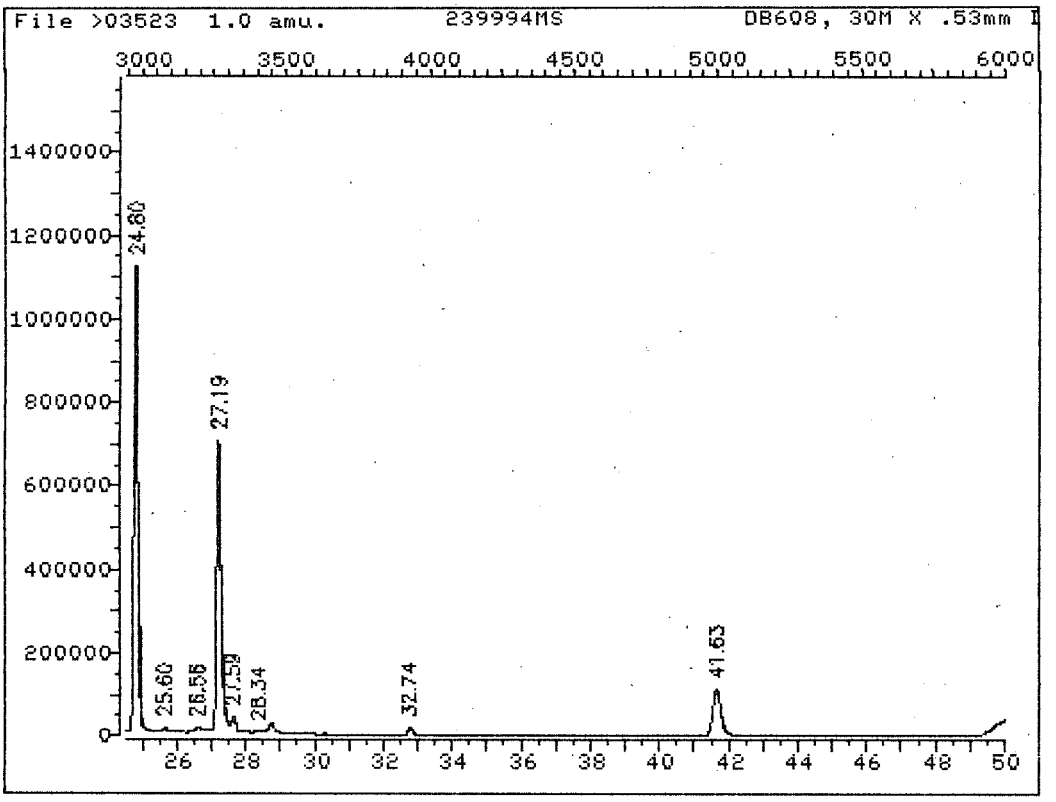


Data File: >03523::G2 Quant Output File: ^03523::GQ
Name: 239994MS Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960727 16:37
Injected at: 960727 15:44

Page 1 of 2



Data File: >03523::G2 Quant Output File: ^03523::GQ
Name: 239994MS Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960727 16:37
Injected at: 960727 15:44

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QUANT REPORT

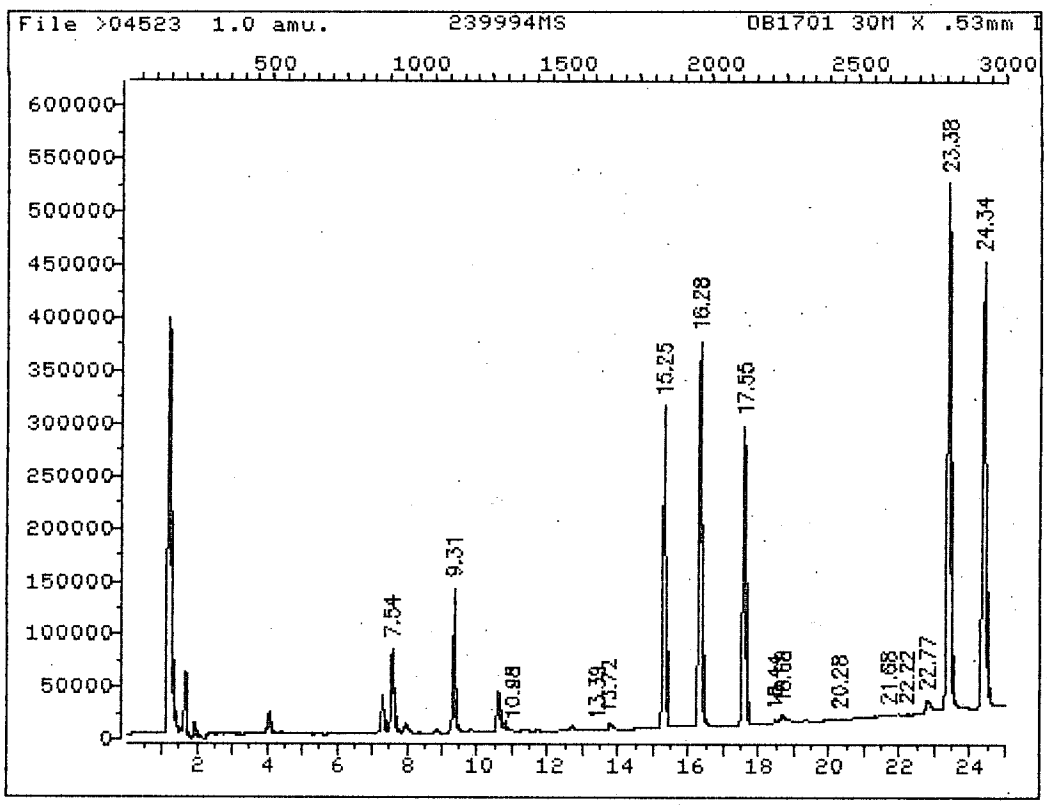
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960727 16:37
Output File: ^03523::GQ Injected at: 960727 15:44
Data File: >03523::G2 Dilution Factor: 1.00000
Name: 239994MS Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	2328118	18.09	ng/ml	100
4)	~~#delta-BHC~~ NT	16.31	1957	6461	.0493	ng/ml	100
5)	#gamma-BHC (Lindane)	14.34	1721	5671372	40.24	ng/ml	100
6)	#Heptachlor	15.83	1900	4963166	42.85	ng/ml	100
7)	#Aldrin	17.34	2081	5358474	38.98	ng/ml	100
10)	#Dieldrin	23.01	2761	8876550	90.59	ng/ml	100
11)	~~#4,4'-DDE~~ NT	22.81	2737	317872	3.32	ng/ml	100
12)	#Endrin	24.80	2976	7990340	89.70	ng/ml	100
13)	~~#Endosulfan II~~ NT	25.60	3072	101963	1.01	ng/ml	100
14)	~~#4,4'-DDD~~ NT	25.60	3072	106825	1.75	ng/ml	100
15)	~~#Endosulfan Sulfate~~ NT	28.34	3400	45708	.512	ng/ml	100
16)	#4,4'-DDT	27.19	3262	5759452	83.77	ng/ml	100
18)	~~#Endrin ketone~~ NT	32.74	3928	184721	1.96	ng/ml	100
19)	#Decachlorobiphenyl	41.63	4996	1778407	14.93	ng/ml	100
21)	~~#gamma Chlordane~~ NT	20.78	2493	17203	.136	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	8.08	970	44932	54.96	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	15.83	1900	4963166	673.71	ng/ml	100
28)	~~#Aroclor-1254(1)~~ NP	20.78	2493	15687	3.20	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	24.36	2923	36834	5.93	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.59	3310	396407	4.86	ng/ml	100
31)	~~#Toxaphene(2)~~ NP	27.59	3310	396407	240.39	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.34	3400	45708	21.31	ng/ml	100
34)	~~#Aroclor-1016(2)~~	14.34	1721	5671372	963.11	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	15.83	1900	4963166	447.06	ng/ml	100
36)	~~#Aroclor-1016(4)~~	16.85	2022	32506	8.51	ng/ml	100
40)	~~#Aroclor-1232(2)~~	14.34	1721	5671372	2222.51	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	15.83	1900	4963166	1087.25	ng/ml	100
42)	~~#Aroclor-1232(4)~~	16.85	2022	32506	19.18	ng/ml	100
43)	~~#Aroclor-1242(2)~~	14.34	1721	5671372	1246.38	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	15.83	1900	4963166	564.09	ng/ml	100
45)	~~#Aroclor-1242(4)~~	16.85	2022	32506	9.74	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	17.68	2122	277331	88.83	ng/ml	100
51)	~~#Aroclor-1254(2)~~	21.12	2534	35410	6.08	ng/ml	100
52)	~~#Aroclor-1254(3)~~ NP	23.01	2761	8876550	2950.64	ng/ml	100
54)	~~#Aroclor-1254(5)~~	24.80	2976	7990340	2206.15	ng/ml	100
55)	~~#Aroclor-1260(2)~~	24.80	2976	7990340	1142.75	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	26.56	3187	240227	35.11	ng/ml	100
58)	~~#Aroclor-1260(5)~~	32.74	3928	184721	34.64	ng/ml	100

Compound uses ESTD

EPNa
8/6/96



Data File: >04523::G5 Quant Output File: ^04523::GQ
Name: 239994MS Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960727 16:35
Injected at: 960727 15:44

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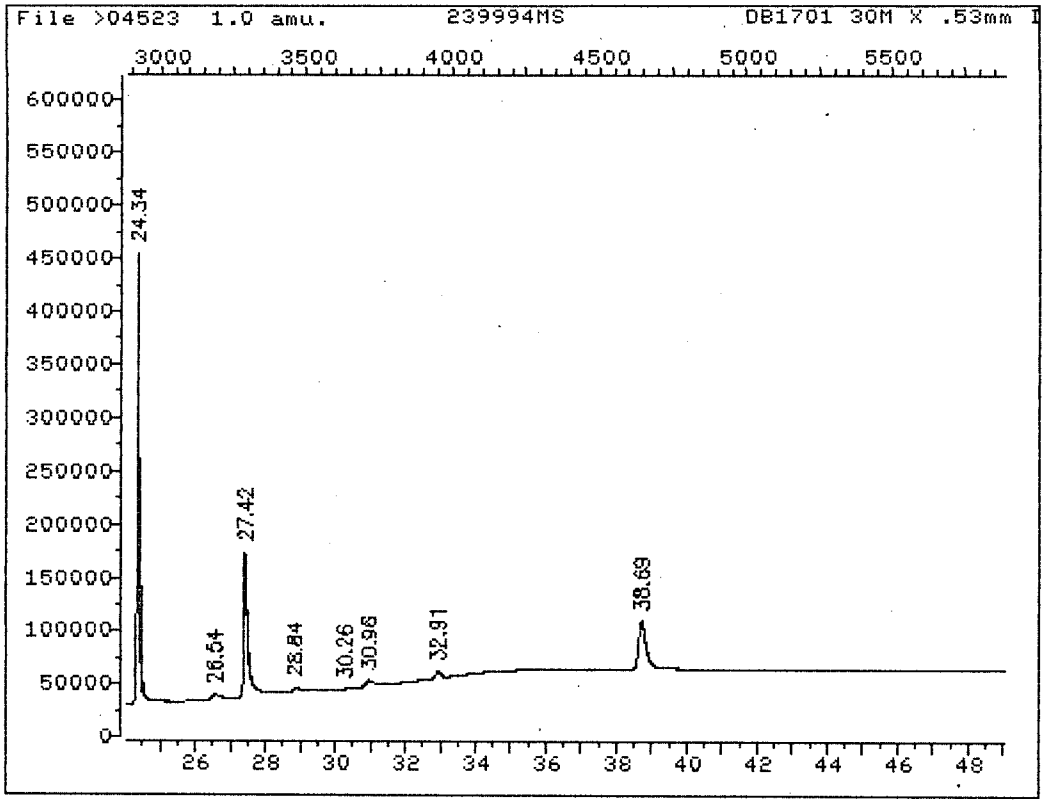

Data File: >04523::G5 Quant Output File: ^04523::GQ
Name: 239994MS Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960727 16:35
Injected at: 960727 15:44

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QUANT REPORT

Operator ID: TRFI2
Output File: ^04523::GQ
Data File: >04523::G5
Name: 239994MS
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Quant Rev: 7
Quant Time: 960727 16:35
Injected at: 960727 15:44
Dilution Factor: 1.00000
Instrument ID: GC04

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07
Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	810926	18.23	ng/ml	100
2)	~~#alpha-BHC~~ NT	13.39	1607	9274	.281	ng/ml	100
3)	~~#beta-BHC~~ NT	18.68	2241	74670	2.93	ng/ml	100
5)	#gamma-BHC (Lindane)	15.25	1830	1523349	43.47	ng/ml	100
6)	#Heptachlor	16.28	1954	2058672	43.03	ng/ml	100
7)	#Aldrin	17.55	2106	1589108	41.15	ng/ml	100
9)	~~#Endosulfan I~~ NT	21.68	2601	20072	.566	ng/ml	100
10)	#Dieldrin	23.38	2806	3097974	95.40	ng/ml	100
11)	~~#4,4'-DDE~~ NT	22.77	2732	176086	6.23	ng/ml	100
12)	#Endrin	24.34	2921	2751443	92.83	ng/ml	100
13)	~~#Endosulfan II~~ NT	26.54	3184	115004	3.27	ng/ml	100
14)	~~#4,4'-DDD~~ NT	26.54	3184	110050	5.82	ng/ml	100
16)	#4,4'-DDT	27.42	3290	1390363	81.97	ng/ml	100
17)	~~#Methoxychlor~~ NT	30.96	3715	103999	8.01	ng/ml	100
18)	~~#Endrin ketone~~ NT	32.91	3949	66614	2.02	ng/ml	100
19)	#Decachlorobiphenyl	38.69	4643	651903	13.86	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.22	2666	5069	.118	ng/ml	100
24)	~~#Aroclor 1221~~(1) NP	7.54	905	455805	427.58	ng/ml	100
25)	~~#Aroclor-1232(1~~) NP	7.54	905	455805	258.97	ng/ml	100
27)	~~#Aroclor 1248~~(1) NP	13.72	1647	42596	42.66	ng/ml	100
28)	~~#Aroclor-1254(1~~) NP	17.55	2106	1589108	990.80	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.84	3460	81760	2.56	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	30.26	3631	9653	18.36	ng/ml	100
34)	~~#Aroclor 1016(2)~~ NP	13.72	1647	42596	17.60	ng/ml	100
37)	~~#Aroclor 1016(5)~~ NP	18.44	2213	35529	17.97	ng/ml	100
38)	~~#Aroclor-1221(2~~) NP	10.98	1318	8481	13.40	ng/ml	100
41)	~~#Aroclor-1232(3~~) NP	13.72	1647	42596	43.04	ng/ml	100
43)	~~#Aroclor-1242(2~~) NP	13.72	1647	42596	22.25	ng/ml	100
46)	~~#Aroclor 1242~~(5) NP	17.55	2106	1589108	1932.96	ng/ml	100
48)	~~#Aroclor-1248(3~~) NP	18.44	2213	35529	15.88	ng/ml	100
50)	~~#Aroclor 1248(5~~) NP	20.28	2434	5813	6.38	ng/ml	100
51)	~~#Aroclor-1254(2~~) NP	20.28	2434	5813	2.91	ng/ml	100

Compound uses ESTD

EPmi
8/6/96

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP1A MS

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) SOIL Lab Sample ID: 239987

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 03604

% Moisture: 15. decanted: (Y/N) N Date Received: 07/17/96

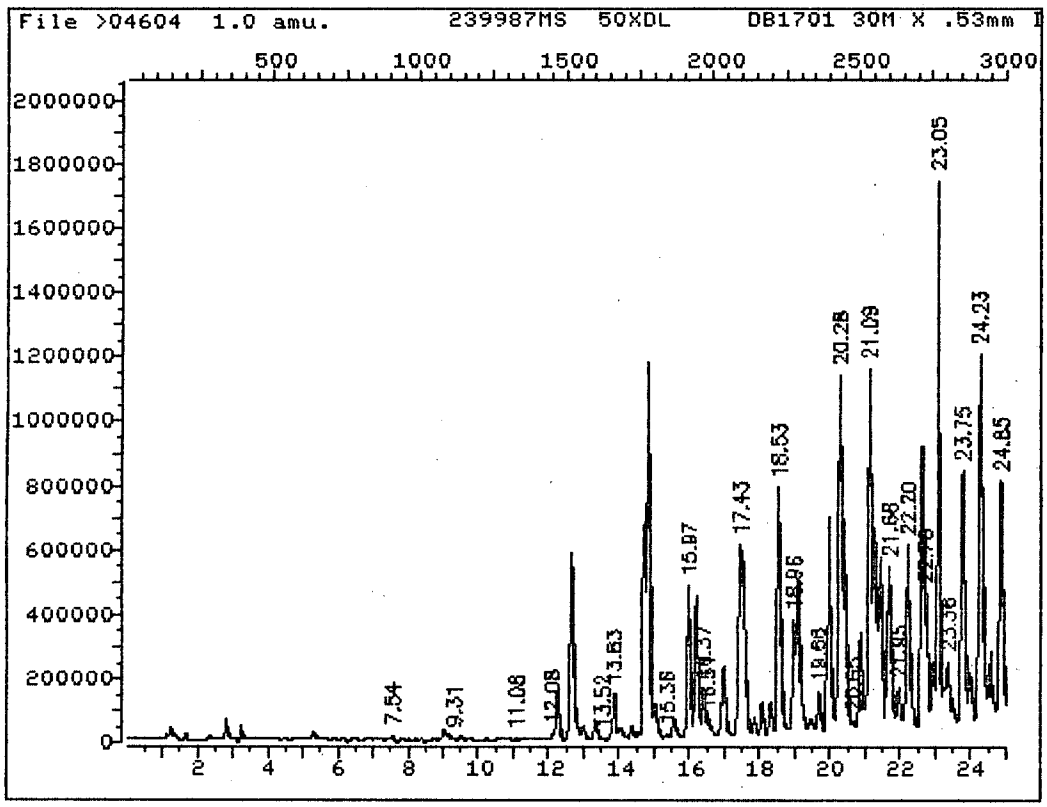
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/01/96

Injection Volume: 1.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	100.	U
319-85-7	beta-BHC	100.	U
319-86-8	delta-BHC	100.	U
58-89-9	gamma-BHC (Lindane)	47.	J P
76-44-8	Heptachlor	190.	P
309-00-2	Aldrin	240.	P
1024-57-3	Heptachlor epoxide	100.	U
959-98-8	Endosulfan I	100.	U
60-57-1	Dieldrin	550.	P
72-55-9	4,4'-DDE	190.	U
72-20-8	Endrin	2400.	P
33213-65-9	Endosulfan II	190.	U
72-54-8	4,4'-DDD	190.	U
1031-07-8	Endosulfan Sulfate	190.	U
50-29-3	4,4'-DDT	390.	P
72-43-5	Methoxychlor	1000.	U
53494-70-5	Endrin ketone	190.	U
7421-93-4	Endrin aldehyde	190.	U
5103-71-9	alpha-Chlordane	100.	U
5103-74-2	gamma-Chlordane	100.	U
8001-35-2	Toxaphene	10000.	U
12674-11-2	Aroclor-1016	1900.	U
11104-28-2	Aroclor-1221	4000.	U
11141-16-5	Aroclor-1232	1900.	U
53469-21-9	Aroclor-1242	1900.	U
12672-29-6	Aroclor-1248	1900.	U
11097-69-1	Aroclor-1254	64000.	
11096-82-5	Aroclor-1260	1900.	U



Data File: >04604::G5 Quant Output File: ^04604::F3
Name: 239987MS 50XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:50
Injected at: 960801 01:50

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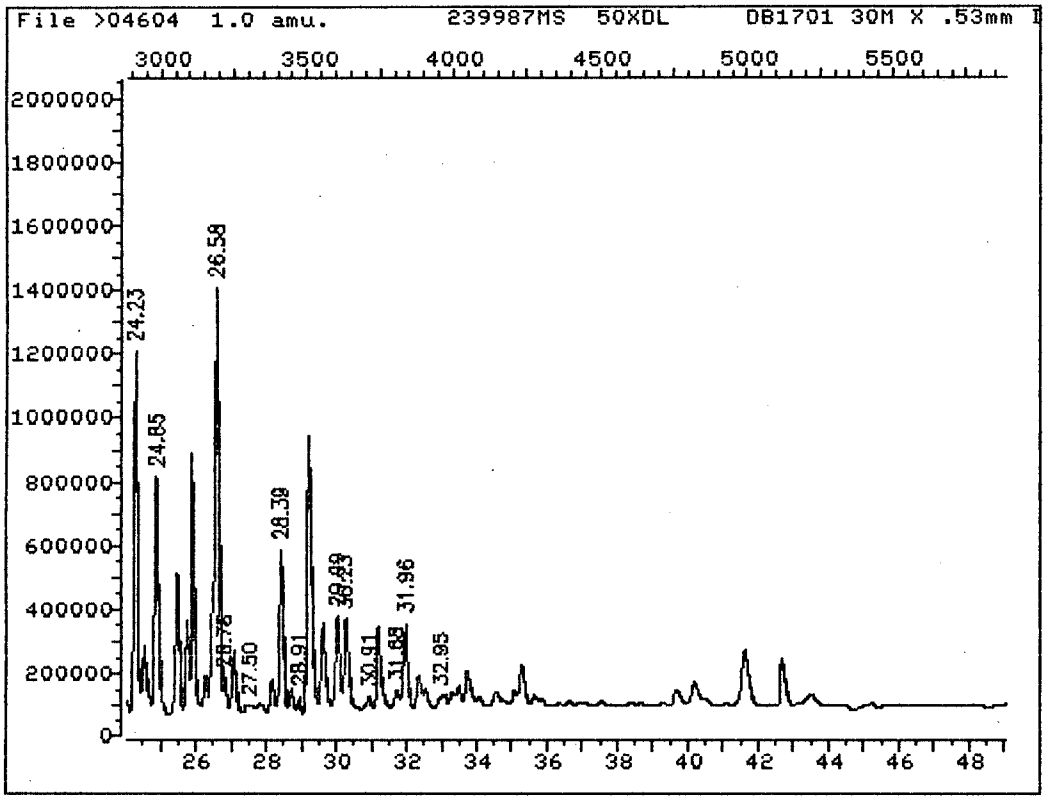


Data File: >04604::G5 Quant Output File: ^04604::F3
Name: 239987MS 50XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:50
Injected at: 960801 01:50

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960813 09:50
Output File: ^04604::F3 Injected at: 960801 01:50
Data File: >04604::G5 Dilution Factor: 1.00000
Name: 239987MS 50XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	57194	1.29	ng/ml	100
2)	~~#alpha-BHC~~ NT	13.52	1622	18144	.549	ng/ml	100
3)	~~#beta-BHC~~ NT	18.53	2224	5182751	203.55	ng/ml	100
4)	~~#delta-BHC~~ NT	19.66	2359	686261	26.27	ng/ml	100
5)	~~#gamma-BHC (Lindane)~~ yes EP	15.36	1843	84091	2.40	ng/ml	100
6)	#Heptachlor	16.37	1965	466611	9.75	ng/ml	100
7)	#Aldrin	17.43	2092	3888251	100.69	ng/ml	100
8)	~~#Heptachlor epoxide~~ NT	20.65	2478	72417	1.63	ng/ml	100
9)	~~#Endosulfan I~~ NT	21.68	2602	3575079	100.78	ng/ml	100
10)	#Dieldrin	23.36	2803	904435	27.85	ng/ml	100
11)	~~#4,4'-DDE~~ NT	22.70	2724	1677266	59.32	ng/ml	100
12)	#Endrin	24.23	2908	8164090	275.45	ng/ml	100
13)	~~#Endosulfan II~~ NT	26.78	3213	658654	18.71	ng/ml	100
14)	~~#4,4'-DDD~~ NT	26.58	3189	11316006	597.93	ng/ml	100
16)	#4,4'-DDT	27.50	3300	336503	19.84	ng/ml	100
17)	~~#Methoxychlor~~ NT	30.91	3709	411703	31.72	ng/ml	100
18)	~~#Endrin ketone~~ NT	32.95	3954	329398	9.97	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.20	2664	3935699	91.94	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	21.95	2634	491168	12.01	ng/ml	100
23)	~~#Aroclor-1016(1)~~ ND	12.08	1450	67258	56.00	ng/ml	100
24)	~~#Aroclor-1221(1)~~ ND	7.54	905	111760	104.84	ng/ml	100
25)	~~#Aroclor-1232(1)~~ ND	7.54	905	111760	63.50	ng/ml	100
26)	~~#Aroclor-1242(1)~~ ND	12.08	1450	67258	67.13	ng/ml	100
27)	~~#Aroclor-1248(1)~~ ND	13.83	1660	1089289	1091.05	ng/ml	100
28)	#Aroclor-1254(1)	17.43	2092	3888251	2424.29	ng/ml	100
29)	~~#Aroclor-1260(1)~~ ND	23.75	2850	5356821	2215.75	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.91	3469	431242	13.51	ng/ml	100
31)	~~#Toxaphene(2)~~	28.39	3407	3687602	5345.90	ng/ml	100
32)	~~#Toxaphene(3)~~ ND	30.23	3627	2549681	4848.69	ng/ml	100
33)	~~#Toxaphene(4)~~	31.68	3801	473825	942.80	ng/ml	100
34)	~~#Aroclor-1016(2)~~	13.83	1660	1089289	449.98	ng/ml	100
35)	~~#Aroclor-1016(3)~~	15.97	1916	2786618	707.02	ng/ml	100
36)	~~#Aroclor-1016(4)~~ ND	16.51	1981	300630	201.61	ng/ml	100
37)	~~#Aroclor-1016(5)~~	18.53	2224	5182751	2620.69	ng/ml	100
38)	~~#Aroclor-1221(2)~~	11.08	1330	27820	43.96	ng/ml	100
39)	~~#Aroclor-1221(3)~~ ND	12.08	1450	67258	39.83	ng/ml	100
40)	~~#Aroclor-1232(2)~~	12.08	1450	67258	60.63	ng/ml	100
41)	~~#Aroclor-1232(3)~~ ND	13.83	1660	1089289	1100.58	ng/ml	100
42)	~~#Aroclor-1232(4)~~	15.97	1916	2786618	1759.75	ng/ml	100
43)	~~#Aroclor-1242(2)~~ ND	13.83	1660	1089289	568.88	ng/ml	100

EPrice
8/13/96

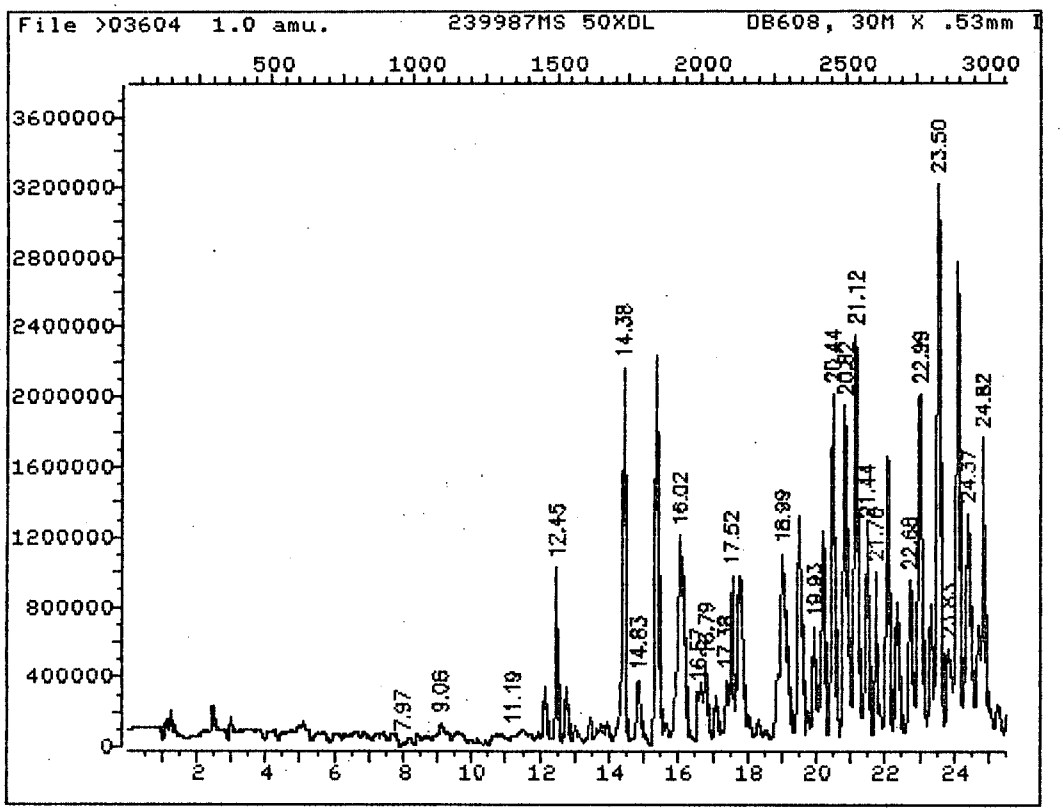
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960813 09:50
Output File: ^04604::F3 Injected at: 960801 01:50
Data File: >04604::G5 Dilution Factor: 1.00000
Name: 239987MS 50XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	~~#Aroclor-1242~~(3)	15.97	1916	2786618	910.26	ng/ml	100
45)	~~#Aroclor-1242~~(4) NP	16.51	1981	290443	256.39	ng/ml	100
46)	~~#Aroclor-1242(5)~~	17.43	2092	3888251	4729.60	ng/ml	100
47)	~~#Aroclor-1248(2)~~	15.97	1916	2786618	1093.71	ng/ml	100
48)	~~#Aroclor-1248(3)~~	18.53	2224	5182751	2316.66	ng/ml	100
49)	~~#Aroclor-1248(4)~~ NP	18.96	2275	1776045	1031.55	ng/ml	100
50)	~~#Aroclor-1248(5)~~	20.28	2433	6962709	7647.71	ng/ml	100
51)	#Aroclor-1254(2)	20.28	2433	6928010	3464.16	ng/ml	100
52)	#Aroclor-1254(3)	21.09	2531	6125113	3661.57	ng/ml	100
53)	#Aroclor-1254(4)	23.05	2766	9640790	3982.89	ng/ml	100
54)	#Aroclor-1254(5)	23.75	2850	5356821	3641.99	ng/ml	100
55)	~~#Aroclor-1260(2)~~	24.85	2982	5478601	2017.17	ng/ml	100
56)	~~#Aroclor-1260(3)~~	28.39	3407	3685370	2336.37	ng/ml	100
57)	~~#Aroclor-1260(4)~~ NP	29.99	3599	2312698	542.52	ng/ml	100
58)	~~#Aroclor-1260~~(5)	31.96	3835	2984579	1118.91	ng/ml	100

Compound uses ESTD

EPrice
8/13/96

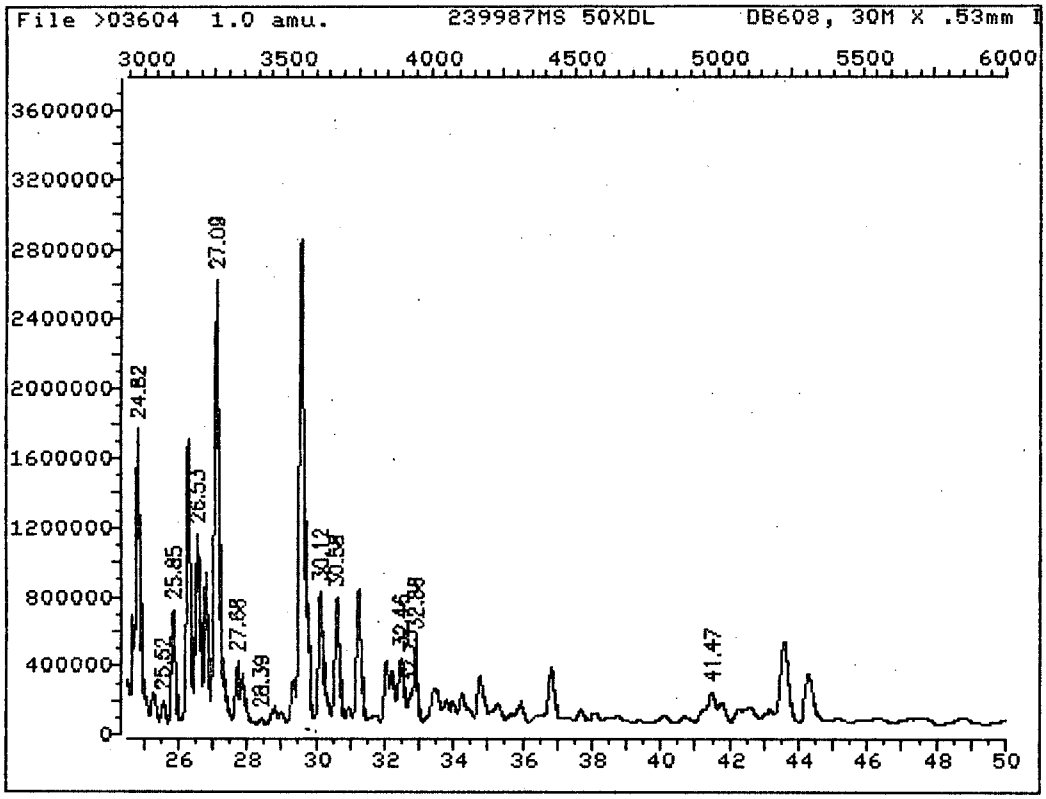


Data File: >03604::G4 Quant Output File: ^03604::F3
Name: 239987MS 50XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:39
Injected at: 960801 01:50

Page 1 of 2



Data File: >03604::G4 Quant Output File: ^03604::F3
Name: 239987MS 50XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:39
Injected at: 960801 01:50

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960813 09:39
Output File: ^03604::F3 Injected at: 960801 01:50
Data File: >03604::G4 Dilution Factor: 1.00000
Name: 239987MS 50XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.06	1087	534807	4.16	ng/ml	100
2)	~~#alpha-BHC~~ NT	12.45	1494	6208646	40.95	ng/ml	100
3)	~~#beta-BHC~~ NT	14.83	1780	2483525	29.33	ng/ml	100
4)	~~#delta-BHC~~ NT	16.57	1988	1481730	11.31	ng/ml	100
5)	#gamma-BHC (Lindane)	14.38	1726	14363984	101.93	ng/ml	100
6)	#Heptachlor	16.02	1923	9245708	79.82	ng/ml	100
7)	#Aldrin	17.38	2085	1695890	12.34	ng/ml	100
8)	~~#Heptachlor epoxide~~ NT	19.93	2391	3189193	24.68	ng/ml	100
9)	~~#Endosulfan I~~ NT	21.70	2604	5317401	48.97	ng/ml	100
10)	#Dieldrin	22.99	2759	13599120	138.79	ng/ml	100
11)	~~#4,4'-DDE~~ NT	22.68	2722	6409649	66.94	ng/ml	100
12)	#Endrin	24.82	2978	11000132	123.48	ng/ml	100
13)	~~#Endosulfan II~~ NT	25.85	3102	4788446	47.53	ng/ml	100
14)	~~#4,4'-DDD~~ NT	25.52	3062	999498	16.36	ng/ml	100
15)	~~#Endosulfan Sulfate~~ NT	28.39	3406	258239	2.89	ng/ml	100
16)	#4,4'-DDT	27.09	3251	19687160	286.36	ng/ml	100
17)	~~#Methoxychlor~~ NT	32.46	3895	3840116	97.64	ng/ml	100
18)	~~#Endrin ketone~~ NT	32.73	3927	663107	7.02	ng/ml	100
19)	#Decachlorobiphenyl	41.47	4976	1220392	10.24	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	21.44	2573	7697889	62.11	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	20.82	2498	14995422	118.24	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.83	2859	4659080	2840.78	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.45	1494	6208646	2255.99	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.97	956	136038	166.40	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	12.45	1494	6208646	2358.64	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.45	1494	6208646	2635.89	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.02	1923	9264856	1257.62	ng/ml	100
28)	#Aroclor-1254(1)	20.82	2498	14995422	3057.73	ng/ml	100
29)	~~#Aroclor-1260(1)~~	24.37	2924	9843652	1583.57	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.68	3321	2784765	34.17	ng/ml	100
31)	~~#Toxaphene(2)~~	27.68	3321	2788493	1691.03	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.39	3406	258239	120.39	ng/ml	100
33)	~~#Toxaphene(4)~~	30.58	3669	6005383	3071.89	ng/ml	100
34)	~~#Aroclor-1016(2)~~	14.38	1726	14363984	2439.30	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.02	1923	9264856	834.53	ng/ml	100
36)	~~#Aroclor-1016(4)~~	16.79	2015	2620435	686.15	ng/ml	100
37)	~~#Aroclor-1016(5)~~	18.99	2279	11948950	3556.66	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	11.19	1343	202395	126.42	ng/ml	100
39)	~~#Aroclor-1221(3)~~	12.45	1494	6208646	1698.12	ng/ml	100
40)	~~#Aroclor-1232(2)~~ NP	14.38	1726	14363984	5628.98	ng/ml	100

1050

E Price
8/13/96

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960813 09:39
Output File: ^03604::F3 Injected at: 960801 01:50
Data File: >03604::G4 Dilution Factor: 1.00000
Name: 239987MS 50XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
41)	~~#Aroclor-1232(3)~~ UP	16.02	1923	9264856	2029.59	ng/ml	100
42)	~~#Aroclor-1232(4)~~ UP	16.79	2015	2620435	1546.47	ng/ml	100
43)	~~#Aroclor-1242~~(2)	14.38	1726	14363984	3156.73	ng/ml	100
44)	~~#Aroclor-1242(3)~~ UP	16.02	1923	9264856	1053.00	ng/ml	100
45)	~~#Aroclor-1242(4)~~ UP	16.79	2015	2620435	785.13	ng/ml	100
46)	~~#Aroclor-1242(5)~~ UP	18.99	2279	11948950	4166.93	ng/ml	100
47)	~~#Aroclor-1248(2)~~	17.52	2102	6519431	2088.09	ng/ml	100
48)	~~#Aroclor-1248(3)~~	18.99	2279	11948950	3088.86	ng/ml	100
49)	~~#Aroclor-1248(4)~~ UP	20.44	2453	12665298	3269.56	ng/ml	100
50)	~~#Aroclor-1248(5)~~ UP	21.70	2604	5317401	1296.53	ng/ml	100
51)	#Aroclor-1254(2)	21.12	2534	15245984	2615.91	ng/ml	100
52)	#Aroclor-1254(3)	22.99	2759	13599120	4520.46	ng/ml	100
53)	#Aroclor-1254(4)	23.50	2820	20676532	3321.38	ng/ml	100
54)	#Aroclor-1254(5)	24.82	2978	11000132	3037.16	ng/ml	100
55)	~~#Aroclor-1260~~(2)	24.82	2978	11000132	1573.20	ng/ml	100
56)	~~#Aroclor-1260(3)~~	26.53	3183	7915404	1156.93	ng/ml	100
57)	~~#Aroclor-1260(4)~~ UP	30.12	3614	6995902	560.45	ng/ml	100
58)	~~#Aroclor-1260(5)~~ UP	32.88	3945	4145925	777.47	ng/ml	100

Compound uses ESTD

EPrice
8/13/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RIN3 MSD

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) WATER Lab Sample ID: 239994

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 03524

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/17/96

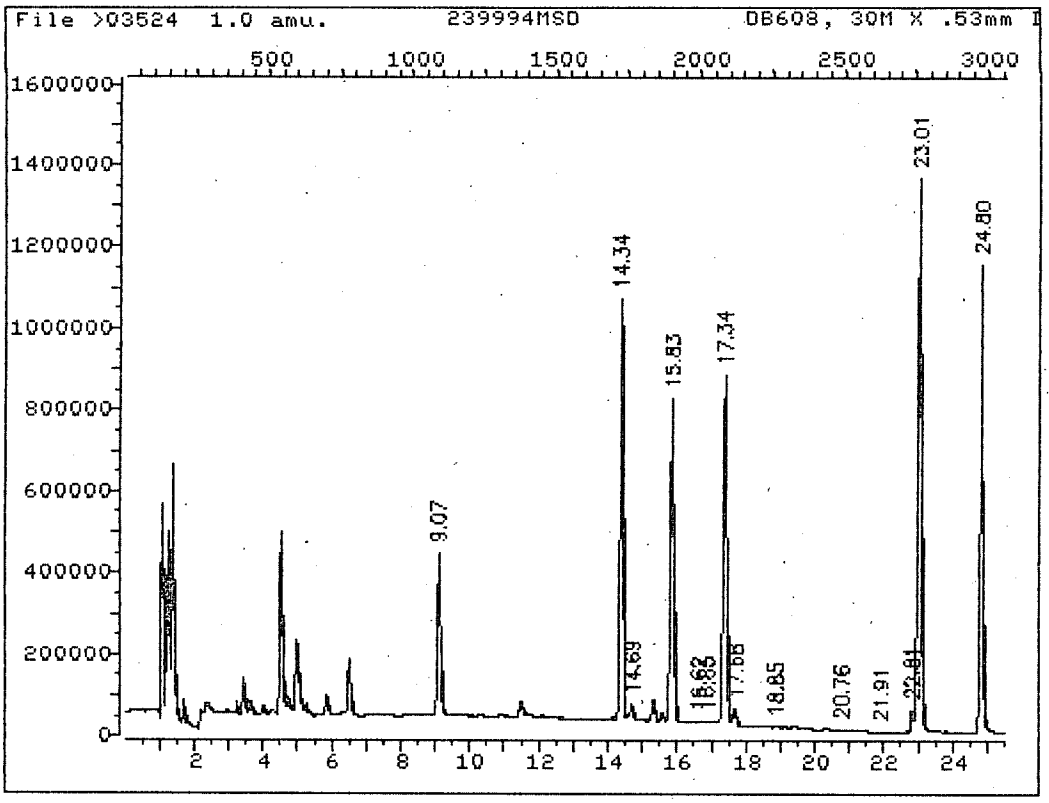
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 07/22/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/27/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.050	U
319-85-7	beta-BHC	.050	U
319-86-8	delta-BHC	.050	U
58-89-9	gamma-BHC (Lindane)	.42	
76-44-8	Heptachlor	.44	
309-00-2	Aldrin	.40	
1024-57-3	Heptachlor epoxide	.050	U
959-98-8	Endosulfan I	.050	U
60-57-1	Dieldrin	.93	
72-55-9	4,4'-DDE	.10	U
72-20-8	Endrin	.93	
33213-65-9	Endosulfan II	.10	U
72-54-8	4,4'-DDD	.10	U
1031-07-8	Endosulfan Sulfate	.10	U
50-29-3	4,4'-DDT	.84	
72-43-5	Methoxychlor	.50	U
53494-70-5	Endrin ketone	.10	U
7421-93-4	Endrin aldehyde	.10	U
5103-71-9	alpha-Chlordane	.050	U
5103-74-2	gamma-Chlordane	.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U



Data File: >03524::G2 Quant Output File: ^03524::GQ
Name: 239994MSD Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960727 17:32
Injected at: 960727 16:39

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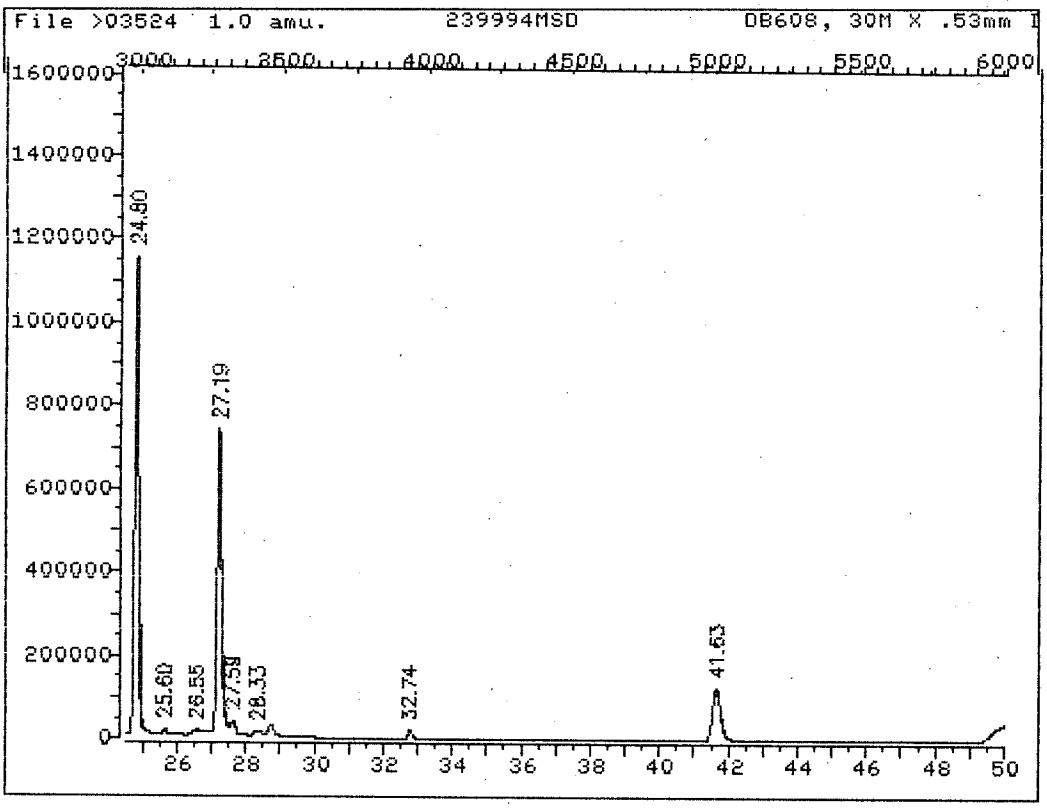

Data File: >03524::G2 Quant Output File: ^03524::GQ
Name: 239994MSD Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960727 17:32
Injected at: 960727 16:39

Page 2 of 2

QUANT REPORT

Operator ID: TREI2
Output File: >03524::GQ
Data File: >03524::G2
Name: 239994MSD
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Quant Rev: 7
Quant Time: 960727 17:32
Injected at: 960727 16:39
Dilution Factor: 1.00000
Instrument ID: GC03

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07
Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1088	2261352	17.58	ng/ml	100
3)	#~~beta-BHC~~ NT	14.69	1763	242627	2.87	ng/ml	100
4)	#~~delta-BHC~~ NT	16.62	1994	28748	.219	ng/ml	100
5)	#gamma-BHC (Lindane)	14.34	1721	5876673	41.70	ng/ml	100
6)	#Heptachlor	15.83	1900	5173700	44.66	ng/ml	100
7)	#Aldrin	17.34	2081	5521012	40.16	ng/ml	100
10)	#Dieldrin	23.01	2761	9103668	92.91	ng/ml	100
11)	#~~4,4'-DDE~~ NT	22.81	2737	323444	3.38	ng/ml	100
12)	#Endrin	24.80	2976	8297297	93.14	ng/ml	100
13)	#~~Endosulfan II~~ NT	25.60	3072	114491	1.14	ng/ml	100
14)	#~~4,4'-DDD~~ NT	25.60	3072	115991	1.90	ng/ml	100
15)	#~~Endosulfan Sulfate~~ NT	28.33	3399	149248	1.67	ng/ml	100
16)	#4,4'-DDT	27.19	3262	5926954	86.21	ng/ml	100
18)	#~~Endrin ketone~~ NT	32.74	3928	172692	1.83	ng/ml	100
19)	#Decachlorobiphenyl	41.63	4996	1964346	16.49	ng/ml	100
21)	#~~gamma Chlordane~~ NT	20.76	2491	23844	.188	ng/ml	100
27)	#~~Aroclor-1248(1)~~ NP	15.83	1900	5173700	702.28	ng/ml	100
28)	#~~Aroclor-1254(1)~~ NP	20.76	2491	22764	4.64	ng/ml	100
30)	#~~Endrin aldehyde~~ NT	27.59	3310	367719	4.51	ng/ml	100
31)	#~~Toxaphene(2)~~ NP	27.59	3310	367719	223.00	ng/ml	100
32)	#~~Toxaphene(3)~~ NP	28.33	3399	149248	69.58	ng/ml	100
34)	#~~Aroclor-1016(2)~~	14.34	1721	5876673	997.98	ng/ml	100
35)	#~~Aroclor-1016(3)~~	15.83	1900	5173700	466.02	ng/ml	100
36)	#~~Aroclor-1016(4)~~ NP	16.85	2022	29879	7.82	ng/ml	100
37)	#~~Aroclor-1016(5)~~	18.85	2262	9866	2.94	ng/ml	100
40)	#~~Aroclor-1232(2)~~	14.34	1721	5876673	2302.96	ng/ml	100
41)	#~~Aroclor-1232(3)~~ NP	15.83	1900	5173700	1133.37	ng/ml	100
42)	#~~Aroclor-1232(4)~~	16.85	2022	29879	17.63	ng/ml	100
43)	#~~Aroclor-1242(2)~~	14.34	1721	5876673	1291.50	ng/ml	100
44)	#~~Aroclor-1242(3)~~	15.83	1900	5173700	588.02	ng/ml	100
45)	#~~Aroclor-1242(4)~~ NP	16.85	2022	29879	8.95	ng/ml	100
46)	#~~Aroclor-1242(5)~~	18.85	2262	9866	3.44	ng/ml	100
47)	#~~Aroclor-1248(2)~~	17.68	2122	290181	92.94	ng/ml	100
48)	#~~Aroclor-1248(3)~~ NP	18.85	2262	9866	2.55	ng/ml	100
50)	#~~Aroclor-1248(5)~~	21.91	2629	36513	8.90	ng/ml	100
52)	#~~Aroclor-1254(3)~~	23.01	2761	9103668	3026.13	ng/ml	100
54)	#~~Aroclor-1254(5)~~ NP	24.80	2976	8297297	2290.90	ng/ml	100
55)	#~~Aroclor-1260(2)~~	24.80	2976	8297297	1186.65	ng/ml	100
56)	#~~Aroclor-1260(3)~~ NP	26.55	3186	257544	37.64	ng/ml	100
58)	#~~Aroclor-1260(5)~~	32.74	3928	172692	32.38	ng/ml	100

Compound uses ESTD

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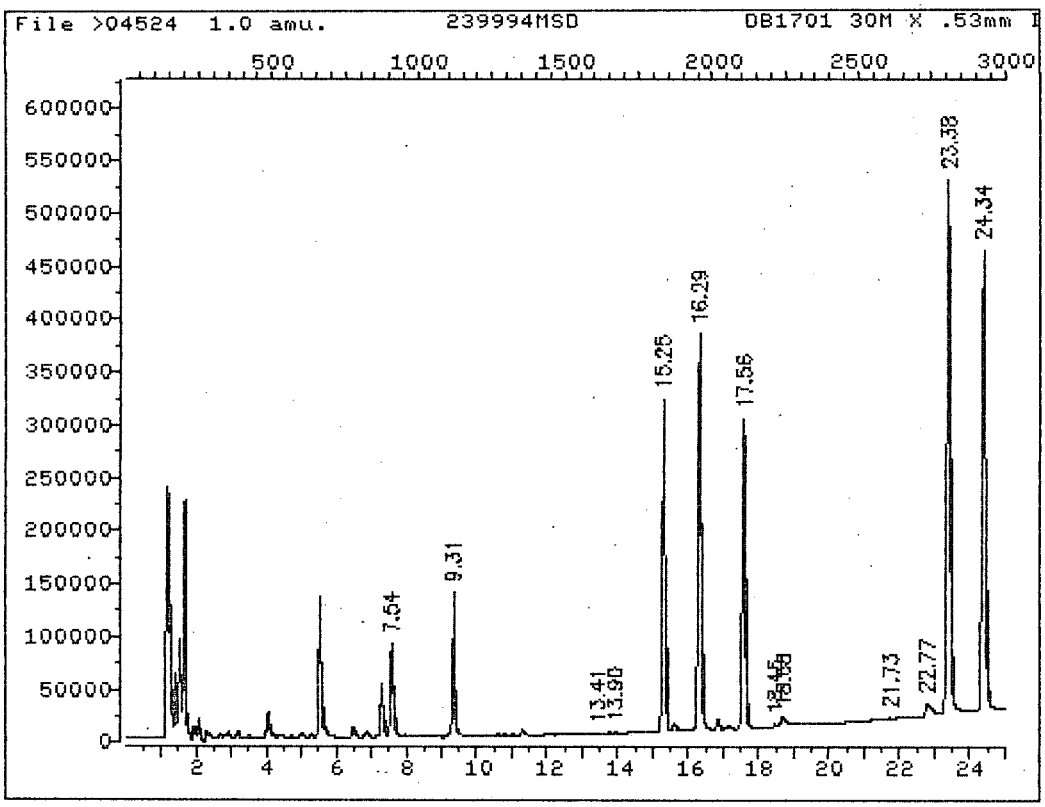
8/6/96



Data File: >04524::G5 Quant Output File: ^04524::GQ
Name: 239994MSD Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960727 17:30
Injected at: 960727 16:39

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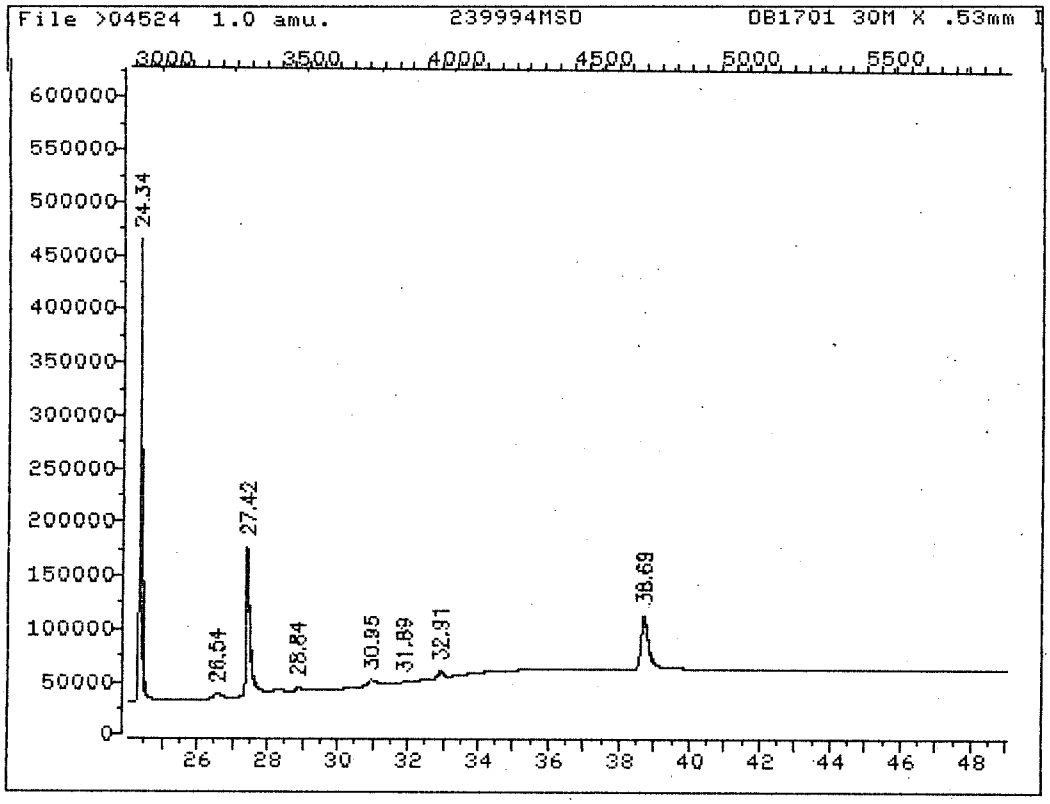

Data File: >04524::G5 Quant Output File: ^04524::GQ
Name: 239994MSD Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960727 17:30
Injected at: 960727 16:39

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QUANT REPORT

Operator ID: TRFI2
Output File: ^04524::GQ
Data File: >04524::G5
Name: 239994MSD
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Quant Rev: 7
Quant Time: 960727 17:30
Injected at: 960727 16:39
Dilution Factor: 1.00000
Instrument ID: GC04

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07
Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.31	1117	776519	17.45	ng/ml	100
2)	~~#alpha-BHC~~ NT	13.41	1609	7696	.233	ng/ml	100
3)	~~#beta-BHC~~ NT	18.68	2242	90735	3.56	ng/ml	100
5)	#gamma-BHC (Lindane)	15.25	1830	1584281	45.21	ng/ml	100
6)	#Heptachlor	16.29	1955	2123011	44.38	ng/ml	100
7)	#Aldrin	17.56	2107	1619311	41.93	ng/ml	100
9)	~~#Endosulfan I~~ NT	21.73	2608	34231	.965	ng/ml	100
10)	#Dieldrin	23.38	2806	3137062	96.60	ng/ml	100
11)	~~#4,4'-DDE~~ NT	22.77	2732	218241	7.72	ng/ml	100
12)	#Endrin	24.34	2921	2825640	95.34	ng/ml	100
13)	~~#Endosulfan II~~ NT	26.54	3185	110034	3.12	ng/ml	100
14)	~~#4,4'-DDD~~ NT	26.54	3185	96521	5.10	ng/ml	100
16)	#4,4'-DDT	27.42	3290	1417754	83.58	ng/ml	100
17)	~~#Methoxychlor~~ NT	30.95	3714	176724	13.62	ng/ml	100
18)	~~#Endrin ketone~~ NT	32.91	3949	132351	4.01	ng/ml	100
19)	#Decachlorobiphenyl	38.69	4643	721123	15.34	ng/ml	100
24)	~~#Aroclor-1221(1)~~ ND	7.54	905	495805	465.11	ng/ml	100
25)	~~#Aroclor-1232(1)~~ ND	7.54	905	495805	281.70	ng/ml	100
27)	~~#Aroclor-1248(1)~~ ND	13.90	1668	8516	8.53	ng/ml	100
28)	~~#Aroclor-1254(1)~~ ND	17.56	2107	1619311	1009.63	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.84	3461	67914	2.13	ng/ml	100
33)	~~#Toxaphene(4)~~ ND	31.89	3826	11442	22.77	ng/ml	100
34)	~~#Aroclor-1016(2)~~ ND	13.90	1668	8516	3.52	ng/ml	100
37)	~~#Aroclor-1016(5)~~ ND	18.45	2214	20298	10.26	ng/ml	100
41)	~~#Aroclor-1232(3)~~ ND	13.90	1668	8516	8.60	ng/ml	100
43)	~~#Aroclor-1242(2)~~ ND	13.90	1668	8516	4.45	ng/ml	100
46)	~~#Aroclor-1242(5)~~ ND	17.56	2107	1619311	1969.70	ng/ml	100
48)	~~#Aroclor-1248(3)~~ ND	18.45	2214	20298	9.07	ng/ml	100
58)	~~#Aroclor-1260(5)~~ ND	31.89	3826	11442	4.29	ng/ml	100

Compound uses ESTD

EPrice
8/6/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP1A MSD

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) SOIL Lab Sample ID: 239987

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 03605

% Moisture: 15. decanted: (Y/N) N Date Received: 07/17/96

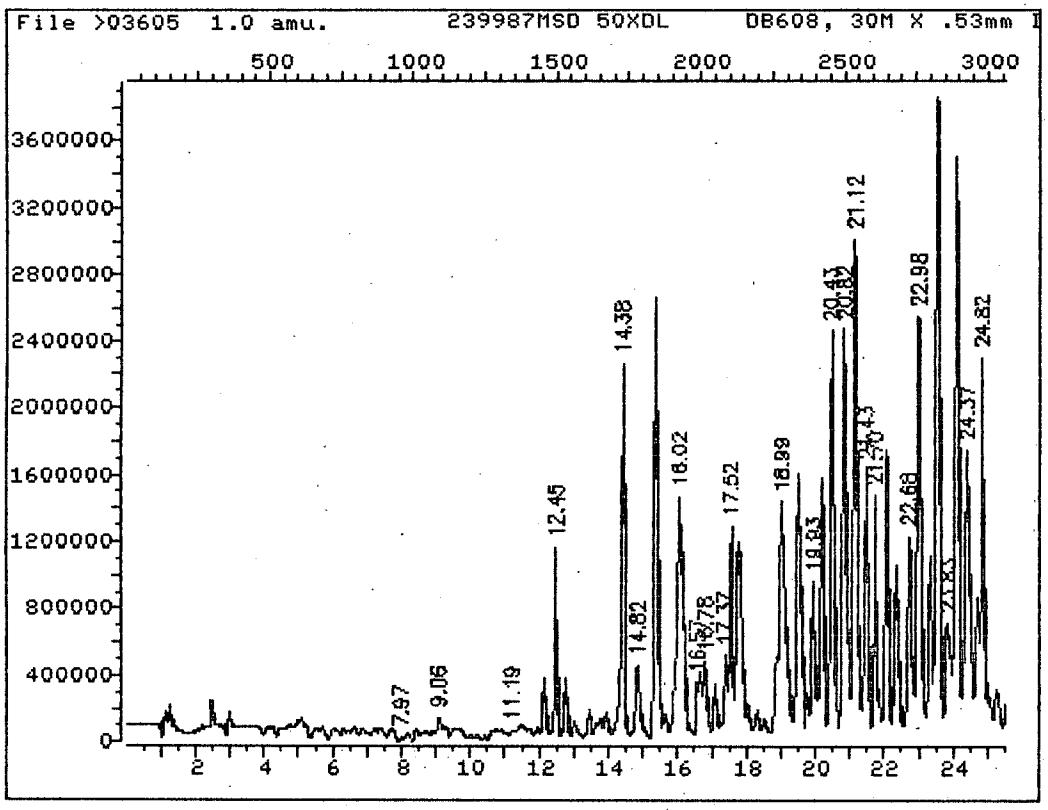
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/01/96

Injection Volume: 1.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	100.	U
319-85-7	beta-BHC	100.	U
319-86-8	delta-BHC	100.	U
58-89-9	gamma-BHC (Lindane)	45.	J P
76-44-8	Heptachlor	250.	P
309-00-2	Aldrin	320.	P
1024-57-3	Heptachlor epoxide	100.	U
959-98-8	Endosulfan I	100.	U
60-57-1	Dieldrin	670.	P
72-55-9	4,4'-DDE	190.	U
72-20-8	Endrin	3100.	P
33213-65-9	Endosulfan II	190.	U
72-54-8	4,4'-DDD	190.	U
1031-07-8	Endosulfan Sulfate	190.	U
50-29-3	4,4'-DDT	390.	P
72-43-5	Methoxychlor	1000.	U
53494-70-5	Endrin ketone	190.	U
7421-93-4	Endrin aldehyde	190.	U
5103-71-9	alpha-Chlordane	100.	U
5103-74-2	gamma-Chlordane	100.	U
8001-35-2	Toxaphene	10000.	U
12674-11-2	Aroclor-1016	1900.	U
11104-28-2	Aroclor-1221	3900.	U
11141-16-5	Aroclor-1232	1900.	U
53469-21-9	Aroclor-1242	1900.	U
12672-29-6	Aroclor-1248	1900.	U
11097-69-1	Aroclor-1254	80000.	
11096-82-5	Aroclor-1260	1900.	U



Data File: >03605::G4 Quant Output File: ^03605::F3
Name: 239987MSD 50XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:40
Injected at: 960801 02:45

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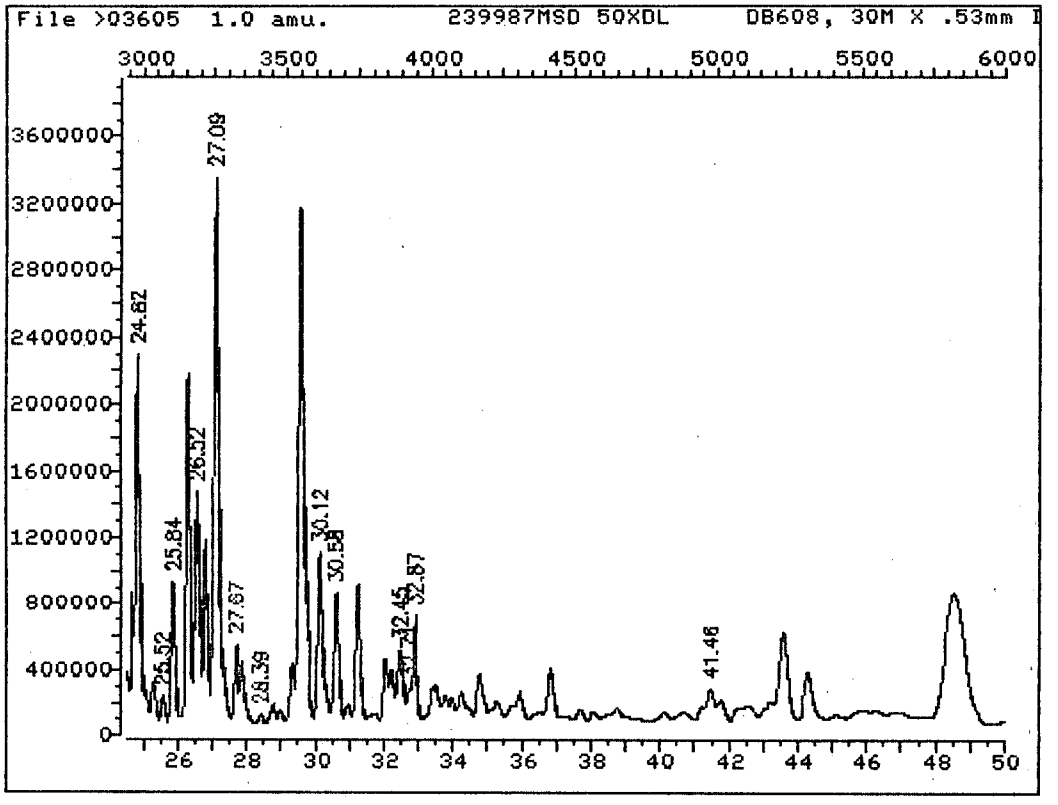
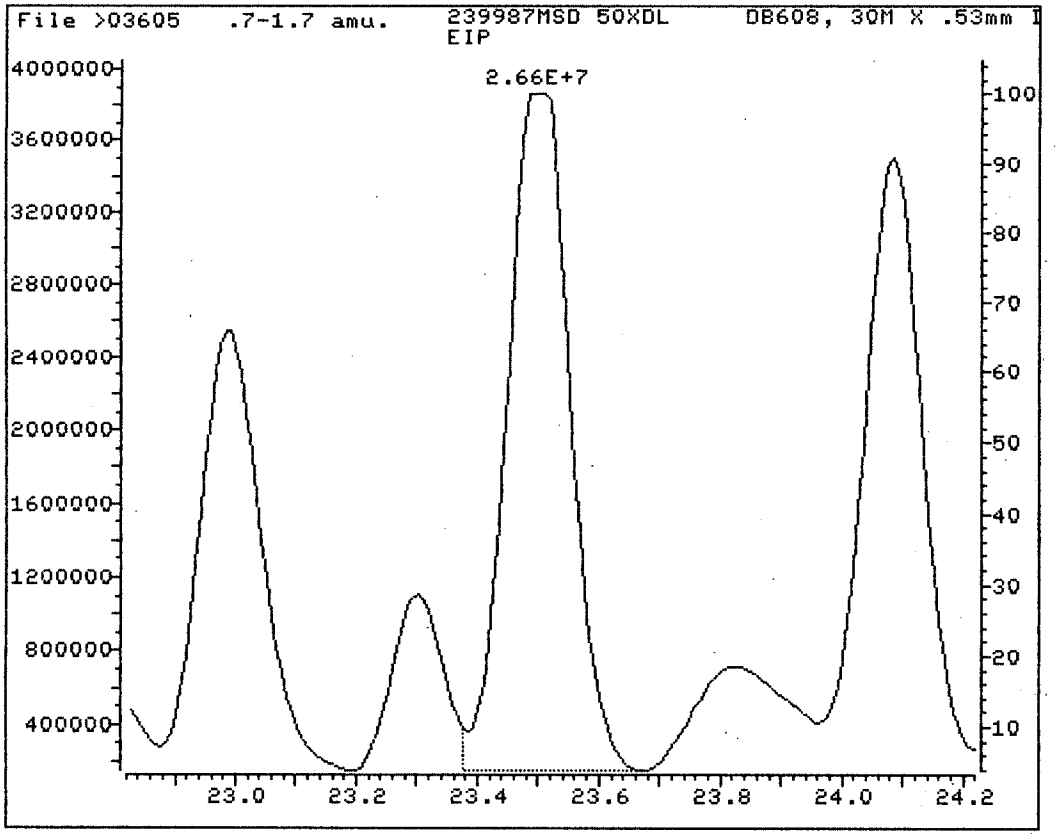


Data File: >03605::G4 Quant Output File: ^03605::F3
Name: 239987MSD 50XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:40
Injected at: 960801 02:45

Page 2 of 2



Data File: >03605::G4 Quant Output File: ^03605::F3
Name: 239987MSD 50XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960813 09:40 Quant ID File: IDCAP1::SC
Injected at: 960801 02:45 Last Calibration: 941029 10:07

Compound No: 53
Compound Name: Aroclor-1254(4)
Scan Number: 2819
Retention Time: 23.49 min.
Quant Ion: 1.0
Area: 26600168M
Concentration: 4272.92 ng/ml

This report was produced by QAREA on: 960814 11:29

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960813 09:40
Output File: ^03605::F3 Injected at: 960801 02:45
Data File: >03605::G4 Dilution Factor: 1.00000
Name: 239987MSD 50XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.06	1087	623016	4.84	ng/ml	100
2)	#~~alpha-B~~HC NT	12.45	1494	6976063	46.01	ng/ml	100
3)	#~~beta-BH~~C NT	14.82	1779	3751610	44.31	ng/ml	100
4)	#~~delta-BH~~C NT	16.57	1988	1659370	12.67	ng/ml	100
5)	#gamma-BHC (Lindane)	14.38	1726	14971544	106.24	ng/ml	100
6)	#Heptachlor	16.02	1923	11102160	95.85	ng/ml	100
7)	#Aldrin	17.37	2084	2224329	16.18	ng/ml	100
8)	#~~Heptachlor epoxi~~de NT	19.93	2391	5380988	41.64	ng/ml	100
9)	#~~Endosulfan~~ I NT	21.70	2604	7984643	73.53	ng/ml	100
10)	#Dieldrin	22.98	2758	16746164	170.91	ng/ml	100
11)	~~#4,4'-DD~~E NT	22.68	2722	10215054	106.68	ng/ml	100
12)	#Endrin	24.82	2978	14102384	158.31	ng/ml	100
13)	~~#Endosulfan I~~I NT	25.84	3101	6183765	61.38	ng/ml	100
14)	~~#4,4'-DDD~~ NT	25.52	3062	1161696	19.02	ng/ml	100
15)	~~#Endosulfan Sulf~~ate NT	28.39	3406	368909	4.13	ng/ml	100
16)	#4,4'-DDT	27.09	3251	25361844	368.90	ng/ml	100
17)	~~#Methoxychlor~~ NT	32.45	3894	4563380	116.03	ng/ml	100
18)	~~#Endrin keto~~ne NT	32.71	3925	797025	8.44	ng/ml	100
19)	#Decachlorobiphenyl	41.46	4975	959992	8.06	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	21.43	2572	9960192	80.36	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	20.82	2498	18299640	144.30	ng/ml	100
22)	~~#Toxaphene(~~1) NP	23.83	2859	6048466	3687.93	ng/ml	100
23)	~~#Aroclor-1016(~~1) NP	12.45	1494	6976063	2534.84	ng/ml	100
24)	~~#Aroclor-1221(~~1) NP	7.97	956	122111	149.36	ng/ml	100
25)	~~#Aroclor-1232~~(1) NP	12.45	1494	6976063	2650.18	ng/ml	100
26)	#Aroclor-1242(1) NP	12.45	1494	6976063	2961.69	ng/ml	100
27)	~~#Aroclor-1248(~~1) NP	16.02	1923	11131034	1510.94	ng/ml	100
28)	#Aroclor-1254(1)	20.82	2498	18299640	3731.50	ng/ml	100
29)	~~#Aroclor-1260(1~~) NP	24.37	2924	12500720	2011.02	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	27.67	3320	3757511	46.10	ng/ml	100
31)	~~#Toxaphene(2~~)	27.67	3320	3757511	2278.67	ng/ml	100
32)	~~#Toxaphene(3~~) NP	28.39	3406	368909	171.98	ng/ml	100
33)	#Toxaphene(4)	30.58	3669	6386421	3266.80	ng/ml	100
34)	~~#Aroclor-1016(2~~)	14.38	1726	14971544	2542.47	ng/ml	100
35)	~~#Aroclor-1016(3~~)	16.02	1923	11131034	1002.63	ng/ml	100
36)	#Ar~~oclor-1016(~~4) NP	16.78	2014	2684979	703.05	ng/ml	100
37)	~~#Aroclor-1016(5~~)	18.99	2279	7459752	2220.43	ng/ml	100
38)	~~#Aroclor-1221(~~2)	11.19	1343	209491	130.86	ng/ml	100
39)	~~#Aroclor-1221(~~3) NP	12.45	1494	6976063	1908.01	ng/ml	100
40)	~~#Aroclor-1232(2~~) NP	14:38	1726	14971544	5867.08	ng/ml	100

EPrice
8/13/96

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960813 09:40
Output File: ^03605::F3 Injected at: 960801 02:45
Data File: >03605::G4 Dilution Factor: 1.00000
Name: 239987MSD 50XDL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
41)	#~~Aroclor-1232~~(3)	16.02	1923	11131034	2438.40	ng/ml	100
42)	#~~Aroclor-1232~~(4)	16.78	2014	2684979	1584.56	ng/ml	100
43)	#~~Aroclor-1242~~(2)	14.38	1726	14971544	3290.25	ng/ml	100
44)	#~~Aroclor-1242~~(3)	16.02	1923	11131034	1265.10	ng/ml	100
45)	#~~Aroclor-1242~~(4)	16.78	2014	2684979	804.46	ng/ml	100
46)	#~~Aroclor-1242~~(5)	18.99	2279	7459752	2601.42	ng/ml	100
47)	#~~Aroclor-1248~~(2)	17.52	2102	8485244	2717.71	ng/ml	100
48)	#~~Aroclor-1248~~(3)	18.99	2279	7459752	1928.38	ng/ml	100
49)	#~~Aroclor-1248~~(4)	20.43	2452	15344054	3961.08	ng/ml	100
50)	#~~Aroclor-1248~~(5)	21.70	2604	7984643	1946.88	ng/ml	100
51)	#Aroclor-1254(2)	21.12	2534	19363588	3322.41	ng/ml	100
52)	#Aroclor-1254(3)	22.98	2758	16746164	5566.56	ng/ml	100
54)	#Aroclor-1254(5)	24.82	2978	14102384	3893.70	ng/ml	100
55)	#~~Aroclor-1260~~(2)	24.82	2978	14102384	2016.87	ng/ml	100
56)	#~~Aroclor-1260~~(3)	26.52	3182	10308704	1506.74	ng/ml	100
57)	#~~Aroclor-1260~~(4)	30.12	3614	9393952	752.56	ng/ml	100
58)	#~~Aroclor-1260~~(5)	32.87	3944	5466013	1025.02	ng/ml	100

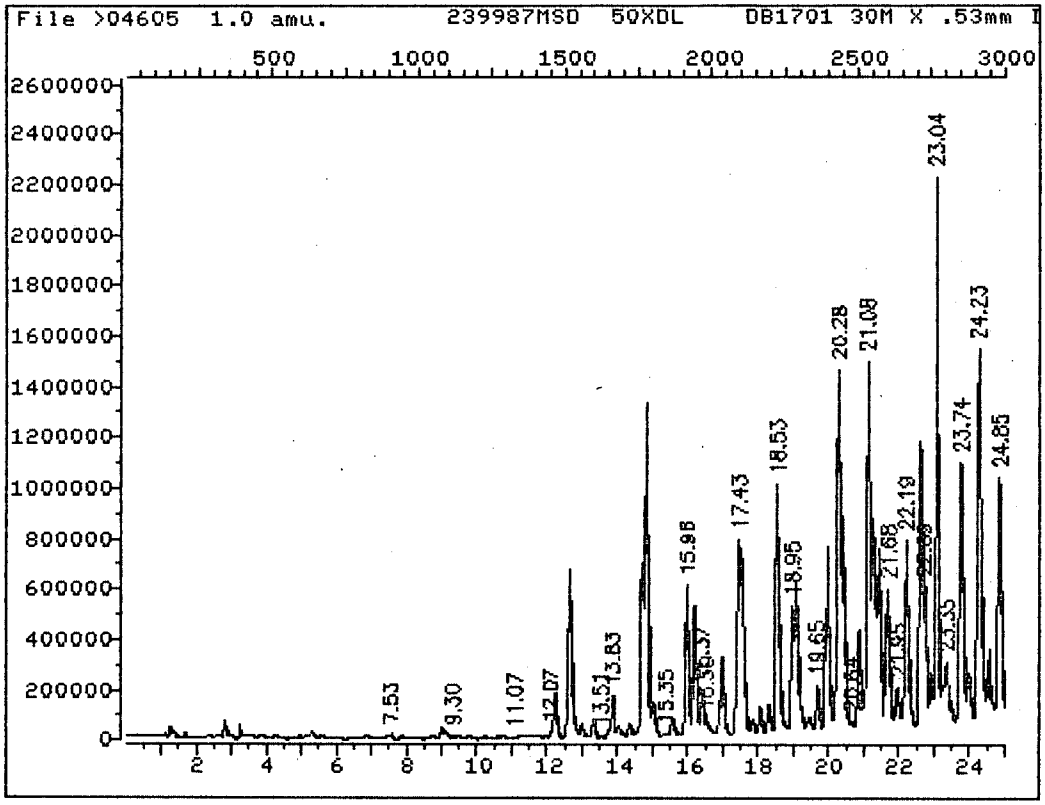
NP NP NP NP

Compound uses ESTD

E Pura
9/03/96

53) Aroclor-1254(4) 23.49 2819 26600168M 4272.92 ng/ml ~~427~~ 8/14/96

TMO 8/14/96



Data File: >04605::G5 Quant Output File: ^04605::F3
Name: 239987MSD 50XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:52
Injected at: 960801 02:45

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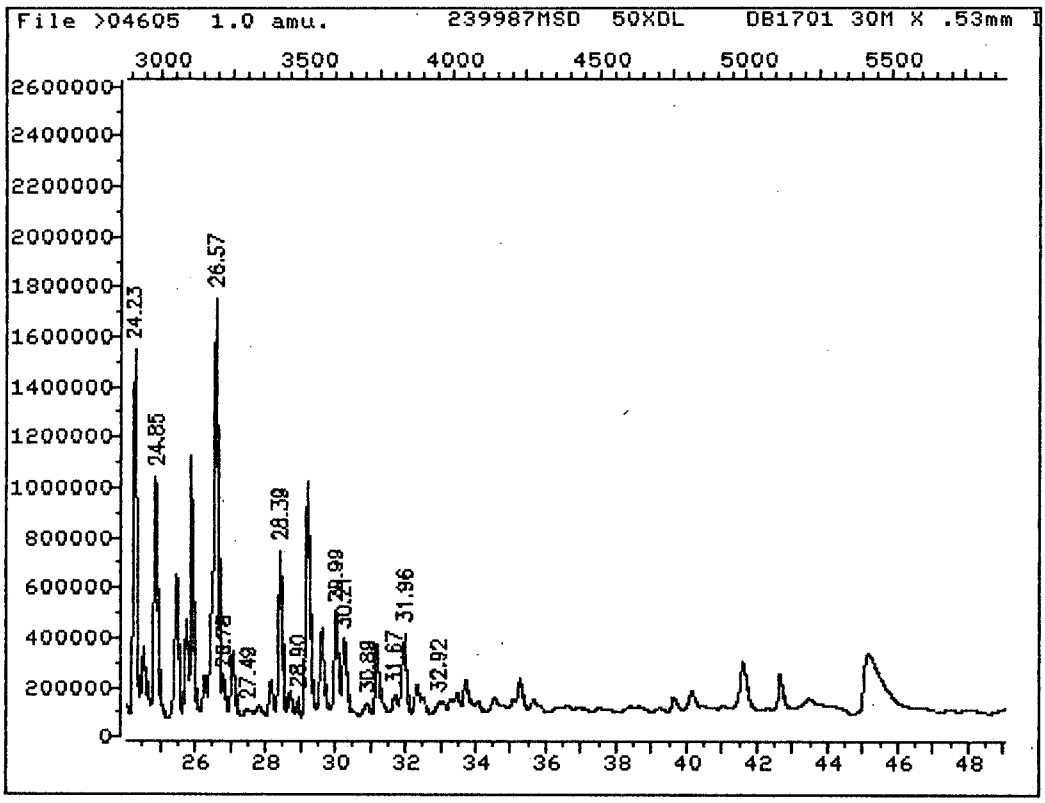

Data File: >04605::G5 Quant Output File: ^04605::F3
Name: 239987MSD 50XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960813 09:52
Injected at: 960801 02:45

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QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960813 09:52
Output File: ^04605::F3 Injected at: 960801 02:45
Data File: >04605::G5 Dilution Factor: 1.00000
Name: 239987MSD 50XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.30	1116	57869	1.30	ng/ml	100
2)	~~#alpha-BHC~~ NT	13.51	1621	18642	.565	ng/ml	100
3)	~~#beta-BHC~~ NT	18.53	2223	6692208	262.84	ng/ml	100
4)	~~#delta-BHC~~ NT	19.65	2358	954584	36.54	ng/ml	100
5)	#gamma-BHC (Lindane)	15.35	1842	79828	2.28	ng/ml	100
6)	#Heptachlor	16.37	1964	608237	12.71	ng/ml	100
7)	#Aldrin	17.43	2092	4813178	124.64	ng/ml	100
8)	~~#Heptachlor epoxide~~ NT	20.64	2477	84774	1.91	ng/ml	100
9)	~~#Endosulfan I~~ NT	21.68	2601	3842112	108.31	ng/ml	100
10)	#Dieldrin	23.35	2802	1102349	33.95	ng/ml	100
11)	~~#4,4'-DDE~~ NT	22.69	2723	2547328	90.09	ng/ml	100
12)	#Endrin	24.23	2907	10343184	348.97	ng/ml	100
13)	~~#Endosulfan II~~ NT	26.78	3213	945222	26.84	ng/ml	100
14)	~~#4,4'-DDD~~ NT	26.57	3188	14569846	769.87	ng/ml	100
16)	#4,4'-DDT	27.49	3298	333967	19.69	ng/ml	100
17)	~~#Methoxychlor~~ NT	30.89	3707	427518	32.94	ng/ml	100
18)	~~#Endrin ketone~~ NT	32.92	3950	376325	11.39	ng/ml	100
20)	~~#alpha-Chlordane~~ NT	22.19	2663	5001762	116.85	ng/ml	100
21)	~~#gamma-Chlordane~~ NT	21.95	2634	676559	16.54	ng/ml	100
23)	~~#Aroclor-1016(1)~~ NP	12.07	1449	71938	59.90	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	7.53	904	111218	104.33	ng/ml	100
25)	~~#Aroclor-1232(1)~~ NP	7.53	904	111218	63.19	ng/ml	100
26)	~~#Aroclor-1242(1)~~ NP	12.07	1449	71938	71.80	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	13.83	1660	1267280	1269.32	ng/ml	100
28)	#Aroclor-1254(1)	17.43	2092	4813178	3000.98	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	23.74	2849	7020499	2903.90	ng/ml	100
30)	~~#Endrin aldehyde~~ NT	28.90	3468	546855	17.13	ng/ml	100
31)	~~#Toxaphene(2)~~	28.39	3407	4719964	6842.51	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	30.21	3625	2346212	4461.75	ng/ml	100
33)	~~#Toxaphene(4)~~	31.67	3800	592866	1179.66	ng/ml	100
34)	~~#Aroclor-1016(2)~~	13.83	1660	1267280	523.51	ng/ml	100
35)	~~#Aroclor-1016(3)~~	15.96	1915	3469907	880.39	ng/ml	100
36)	~~#Aroclor-1016(4)~~ NP	16.50	1980	326809	219.17	ng/ml	100
37)	~~#Aroclor-1016(5)~~	18.53	2223	6692208	3383.95	ng/ml	100
38)	~~#Aroclor-1221(2)~~ NP	11.07	1329	29125	46.02	ng/ml	100
39)	~~#Aroclor-1221(3)~~	12.07	1449	71938	42.60	ng/ml	100
40)	~~#Aroclor-1232(2)~~	12.07	1449	71938	64.85	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	13.83	1660	1267280	1280.42	ng/ml	100
42)	~~#Aroclor-1232(4)~~	15.96	1915	3469907	2191.25	ng/ml	100
43)	~~#Aroclor-1242(2)~~ NP	13.83	1660	1267280	661.83	ng/ml	100

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8/13/96

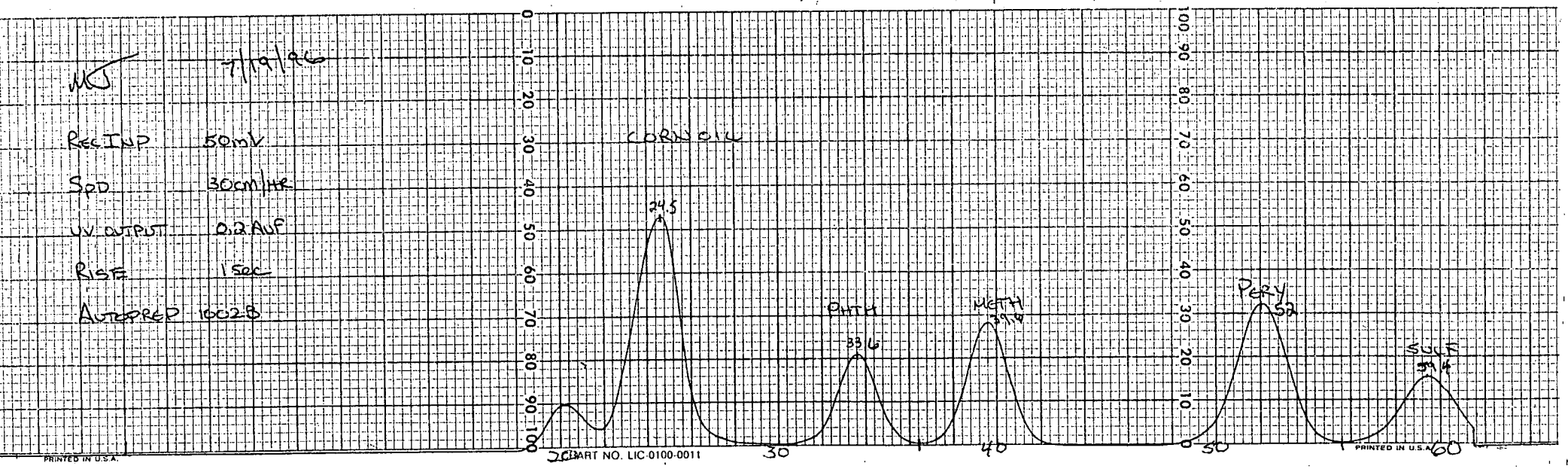
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960813 09:52
Output File: ^04605::F3 Injected at: 960801 02:45
Data File: >04605::G5 Dilution Factor: 1.00000
Name: 239987MSD 50XDL Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	~~#Aroclor 1242~~(3)	15.96	1915	3469907	1133.46	ng/ml	100
45)	~~#Aroclor 1242~~(4) NP	16.50	1980	300235	265.04	ng/ml	100
46)	~~#Aroclor-1242~~(5)	17.43	2092	4813178	5854.66	ng/ml	100
47)	~~#Aroclor-1248~~(2)	15.96	1915	3469907	1361.89	ng/ml	100
48)	~~#Aroclor 1248~~(3)	18.53	2223	6692208	2991.37	ng/ml	100
49)	~~#Aroclor-1248~~(4) NP	18.95	2274	2555518	1484.28	ng/ml	100
50)	~~#Aroclor 1248~~(5)	20.28	2433	8877388	9750.76	ng/ml	100
51)	#Aroclor-1254(2)	20.28	2433	8835312	4417.86	ng/ml	100
52)	#Aroclor-1254(3)	21.08	2530	8391298	5016.29	ng/ml	100
53)	#Aroclor-1254(4)	23.04	2765	12096312	4997.34	ng/ml	100
54)	#Aroclor-1254(5)	23.74	2849	7020499	4773.09	ng/ml	100
55)	~~#Aroclor 1260~~(2)	24.85	2982	6990455	2573.81	ng/ml	100
56)	~~#Aroclor-1260~~(3)	28.39	3407	4717102	2990.45	ng/ml	100
57)	~~#Aroclor 1260~~(4) NP	29.99	3598	3070120	720.20	ng/ml	100
58)	~~#Aroclor-1260~~(5)	31.96	3835	3697737	1386.27	ng/ml	100

Compound uses ESTD

EPrice
8/13/96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REC INP 50mV
SPD 30cm/HR
UV OUTPUT 0.2AUF
RISE 1sec
AUTOPREP 1002B
CORN OIL
24.5
PHTH
33.6
METH
37.8
PERY
52
SULF
59.4
PRINTED IN U.S.A.
CHART NO. LIC-0100-0011
PRINTED IN U.S.A.

QUANT REPORT

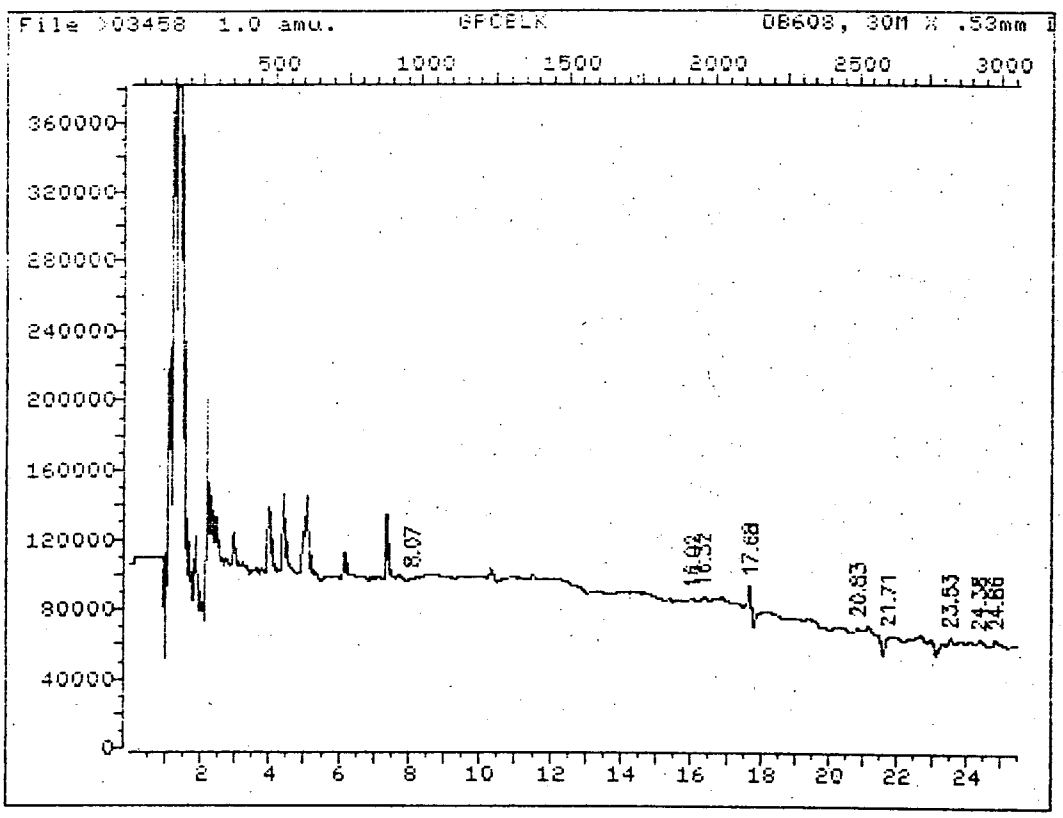
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 14:05
Output File: ^03458::G0 Injected at: 960724 07:12
Data File: >03458::G2 Dilution Factor: 1.00000
Name: GPCBLK Instrument ID: GC03
Disc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
4)	~~#delta-BHC~~ NC	16.32	1959	25461	.194	ng/ml	100
6)	~~#Heptachlor~~ NC	16.02	1922	17829	.154	ng/ml	100
9)	~~#Endosulfan I~~ NC	21.71	2605	74130	.683	ng/ml	100
12)	~~#Endrin~~ <PQL (CRQL)	24.86	2983	59971	.673	ng/ml	100
13)	~~#Endosulfan II~~ <PQL (CRQL)	25.89	3107	5889	.0585	ng/ml	100
14)	~~#4,4'-DDD~~ NC	25.94	3112	8949	.147	ng/ml	100
15)	~~#Endosulfan Sulfate~~ NC	28.23	3387	2633729	29.48	ng/ml	100
17)	~~#Methoxychlor~~ NC	32.44	3892	1907103	48.49	ng/ml	100
21)	~~#gamma-Chlordane~~ NC	20.83	2499	22041	.174	ng/ml	100
22)	~~#Toxaphene(1)~~ NP	23.53	2823	36663	22.35	ng/ml	100
24)	~~#Aroclor-1221(1)~~ NP	8.07	968	14304	17.50	ng/ml	100
27)	~~#Aroclor-1248(1)~~ NP	16.02	1922	17829	2.42	ng/ml	100
29)	~~#Aroclor-1260(1)~~ NP	24.38	2926	39328	6.33	ng/ml	100
32)	~~#Toxaphene(3)~~ NP	28.23	3387	2633729	1227.80	ng/ml	100
35)	~~#Aroclor-1016(3)~~ NP	16.02	1922	17829	1.61	ng/ml	100
41)	~~#Aroclor-1232(3)~~ NP	16.02	1922	17829	3.91	ng/ml	100
44)	~~#Aroclor-1242(3)~~ NP	16.02	1922	17829	2.03	ng/ml	100
47)	~~#Aroclor-1248(2)~~ NP	17.68	2122	155883	49.93	ng/ml	100
50)	~~#Aroclor-1248(5)~~ NP	21.71	2605	74130	18.07	ng/ml	100
53)	~~#Aroclor-1254(4)~~ NP	23.53	2823	36663	5.89	ng/ml	100
54)	~~#Aroclor-1254(5)~~ NP	24.86	2983	59971	16.56	ng/ml	100
55)	~~#Aroclor-1260(2)~~ NP	24.86	2983	59971	8.58	ng/ml	100
56)	~~#Aroclor-1260(3)~~ NP	26.39	3167	61244	8.95	ng/ml	100

Compound uses ESTD

EPui
7/31/96



Data File: >03458::G2 Quant Output File: ^03458::GQ
Name: GFCBLK Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:05
Injected at: 960724 07:12

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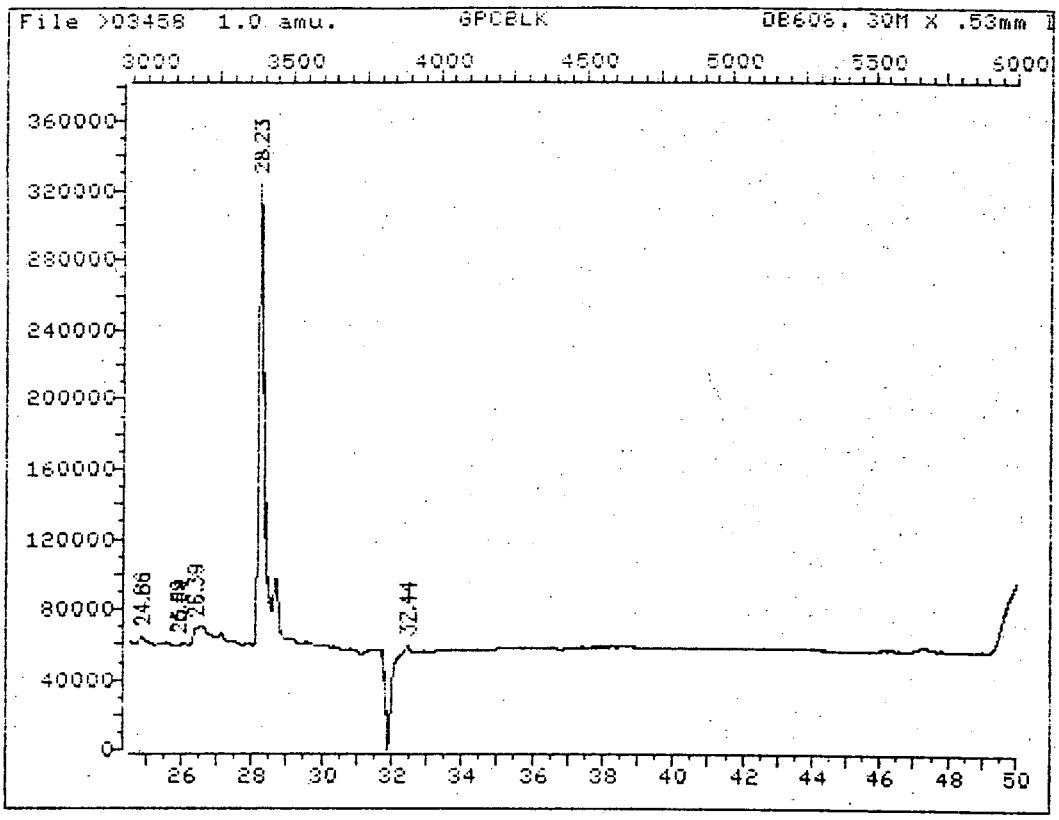

Data File: >03458::G2 Quant Output File: ^03458::GQ
Name: GPCBLK Instrument ID: GC03
Misc: DB608. 30M X .53mm INST 58903. 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:05
Injected at: 960724 07:12

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QUANT REPORT

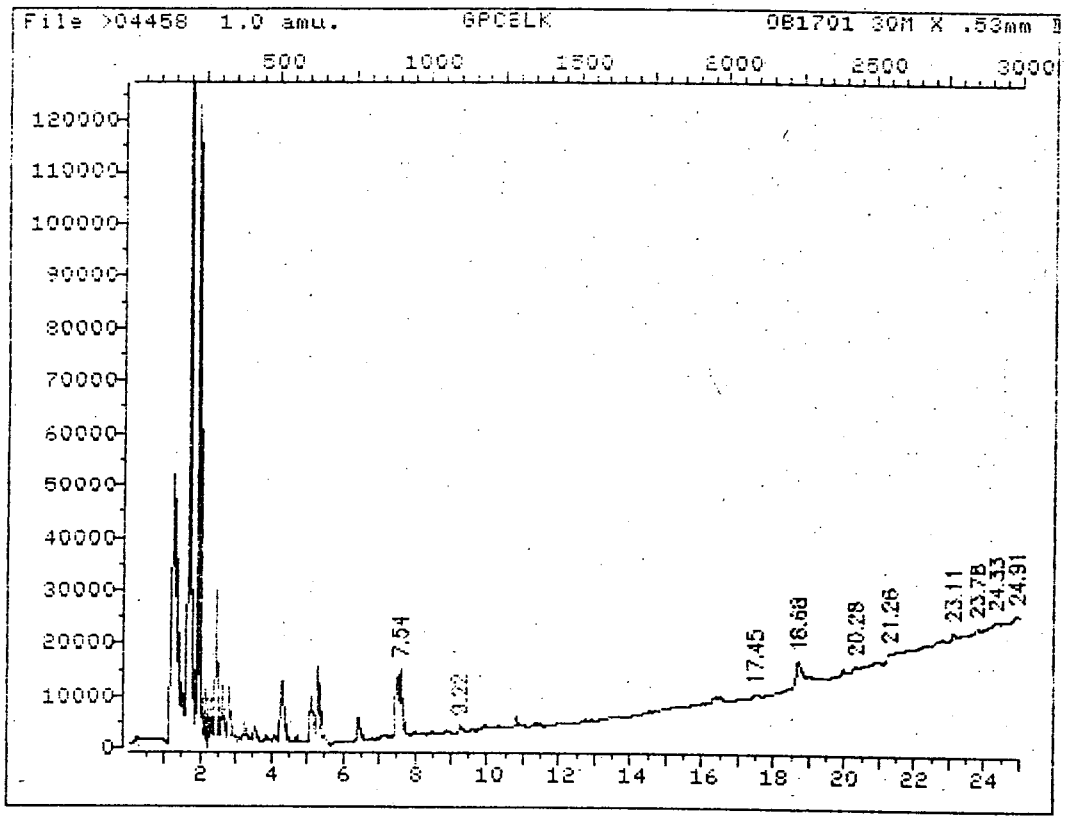
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 14:48
Output File: ^04458::GD Injected at: 960724 07:12
Data File: >04458::G4 Dilution Factor: 1.00000
Name: GPCBLK Instrument ID: GC04
Disc: DB1701 30M X .55mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#~~Tetrachloro-m-xylene~~ NC	9.22	1106	16184	.364	ng/ml	100
3)	#~~beta-BHC~~ NC	18.68	2241	62946	2.47	ng/ml	100
7)	#~~Aldrin~~ NC	17.45	2094	13599	.352	ng/ml	100
12)	#~~Endrin~~ <CRQL	24.33	2919	27146	.916	ng/ml	100
13)	#~~Endosulfan II~~ <CRQL	26.59	3191	30867	.877	ng/ml	100
17)	#~~Methoxychlor~~ <CRQL	30.84	3701	152211	11.73	ng/ml	100
18)	#~~Endrin ketone~~ NC	33.09	3970	70969	2.15	ng/ml	100
24)	#~~Aroclor-1221(1)~~ NP	7.54	905	71319	66.90	ng/ml	100
25)	#~~Aroclor-1232(1)~~ NP	7.54	905	71319	40.52	ng/ml	100
28)	#~~Aroclor-1254(1)~~ NP	17.45	2094	13599	8.48	ng/ml	100
29)	#~~Aroclor-1260(1)~~ NP	23.78	2854	9674	4.00	ng/ml	100
33)	#~~Toxaphene(4)~~ NP	31.79	3815	19095	37.99	ng/ml	100
37)	#~~Aroclor-1016(5)~~ NP	18.68	2241	61670	31.18	ng/ml	100
46)	#~~Aroclor-1242(5)~~ NP	17.45	2094	13599	16.54	ng/ml	100
48)	#~~Aroclor-1248(3)~~ NP	18.68	2241	61670	27.57	ng/ml	100
50)	#~~Aroclor-1248(5)~~ NP	20.28	2434	7826	8.60	ng/ml	100
51)	#~~Aroclor-1254(2)~~ NP	20.28	2434	6675	3.34	ng/ml	100
52)	#~~Aroclor-1254(3)~~ NP	21.26	2551	25917	15.49	ng/ml	100
53)	#~~Aroclor-1254(4)~~ NP	23.11	2773	11558	4.77	ng/ml	100
54)	#~~Aroclor-1254(5)~~ NP	23.78	2854	9674	6.58	ng/ml	100
55)	#~~Aroclor-1260(2)~~ NP	24.91	2989	7429	2.74	ng/ml	100

Compound uses ESTD

EPui
7/31/96



Data File: >04458::G4 Quant Output File: ^04458::GQ
Name: GPCBLK Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:48
Injected at: 960724 07:12

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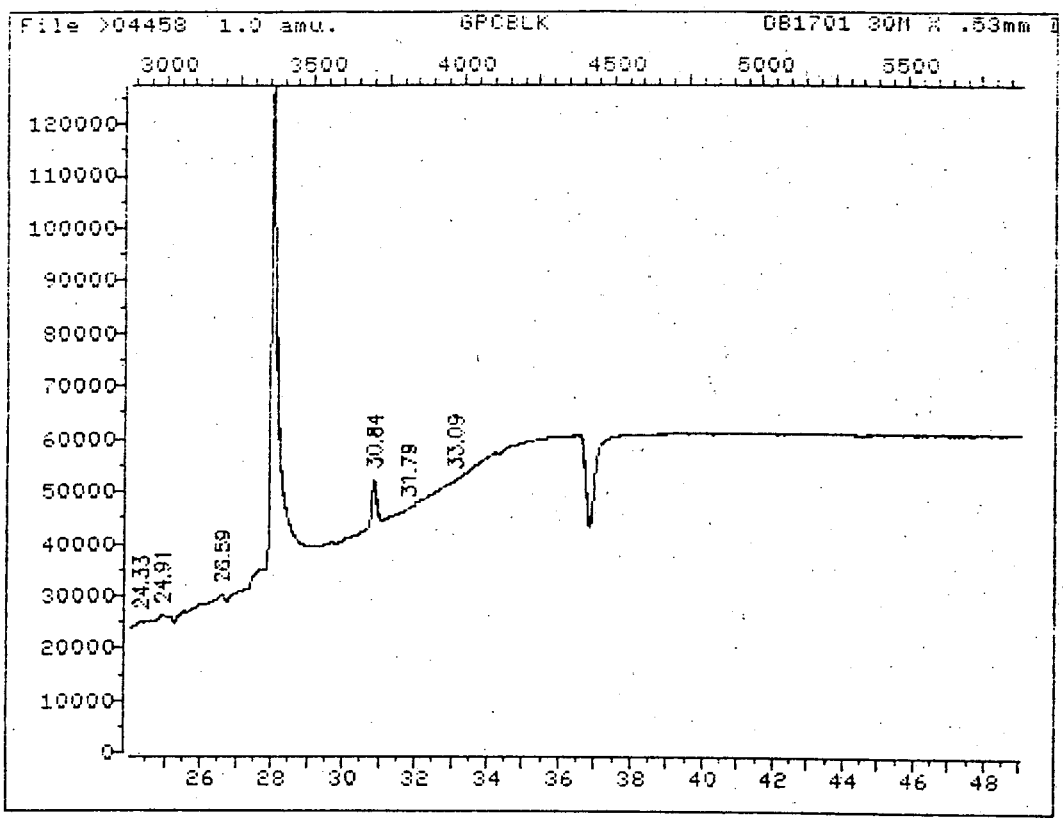

Data File: >04458::G4 Quant Output File: ^04458::GQ
Name: GPCBLK Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:48
Injected at: 960724 07:12

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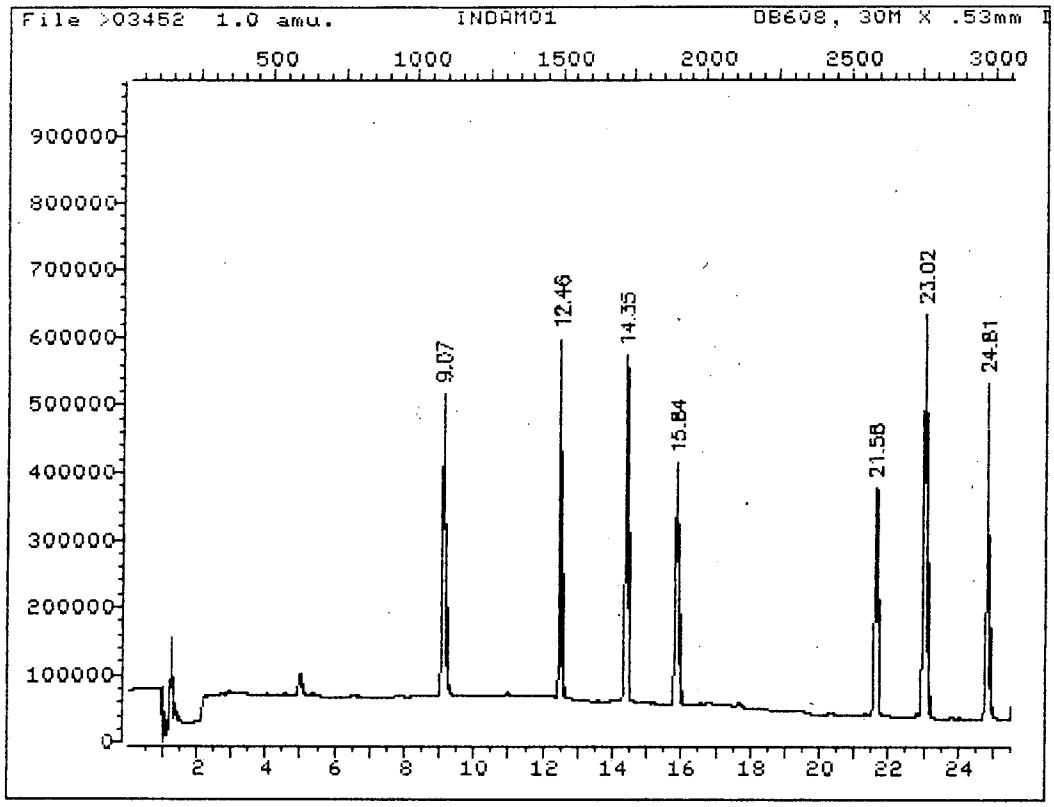
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 13:54
Output File: ^03452::GQ Injected at: 960724 01:44
Data File: >03452::G2 Dilution Factor: 1.00000
Name: INDAM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.07	1088	2573300	20.00	ng/ml	100
2)	#alpha-BHC	0.020	12.46	1495	3029042	19.98	ng/ml	100
5)	#gamma-BHC (Lindane)	0.020	14.35	1722	2818477	20.00	ng/ml	100
6)	#Heptachlor	0.020	15.84	1901	2316679	20.00	ng/ml	100
9)	#Endosulfan I	0.020	21.58	2590	2171852	20.00	ng/ml	100
10)	#Dieldrin	0.040	23.02	2762	3919320	40.00	ng/ml	100
12)	#Endrin	0.040	24.81	2977	3563283	40.00	ng/ml	100
14)	#4,4'-DDD	0.040	25.61	3073	2461463	40.30	ng/ml	100
16)	#4,4'-DDT	0.040	27.19	3262	2750001	40.00	ng/ml	100
17)	#Methoxychlor	0.200	32.44	3892	7864900	199.97	ng/ml	100
19)	#Decachlorobiphenyl	0.040	41.63	4996	4760312	39.96	ng/ml	100

Compound uses ESTD

EPrui
7/30/96



Data File: >03452::G2 Quant Output File: ^03452::GQ
Name: INDAM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAF1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:54
Injected at: 960724 01:44

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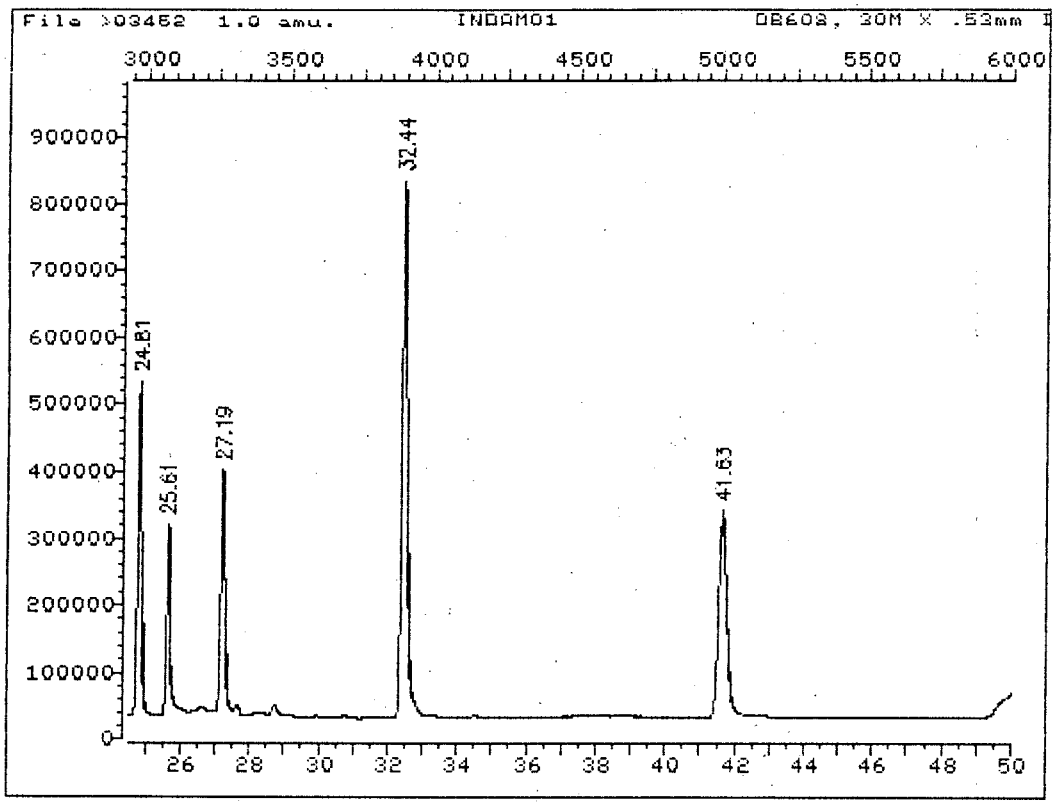

Data File: >03452::G2 Quant Output File: ^03452::GQ
Name: INDAM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:54
Injected at: 960724 01:44

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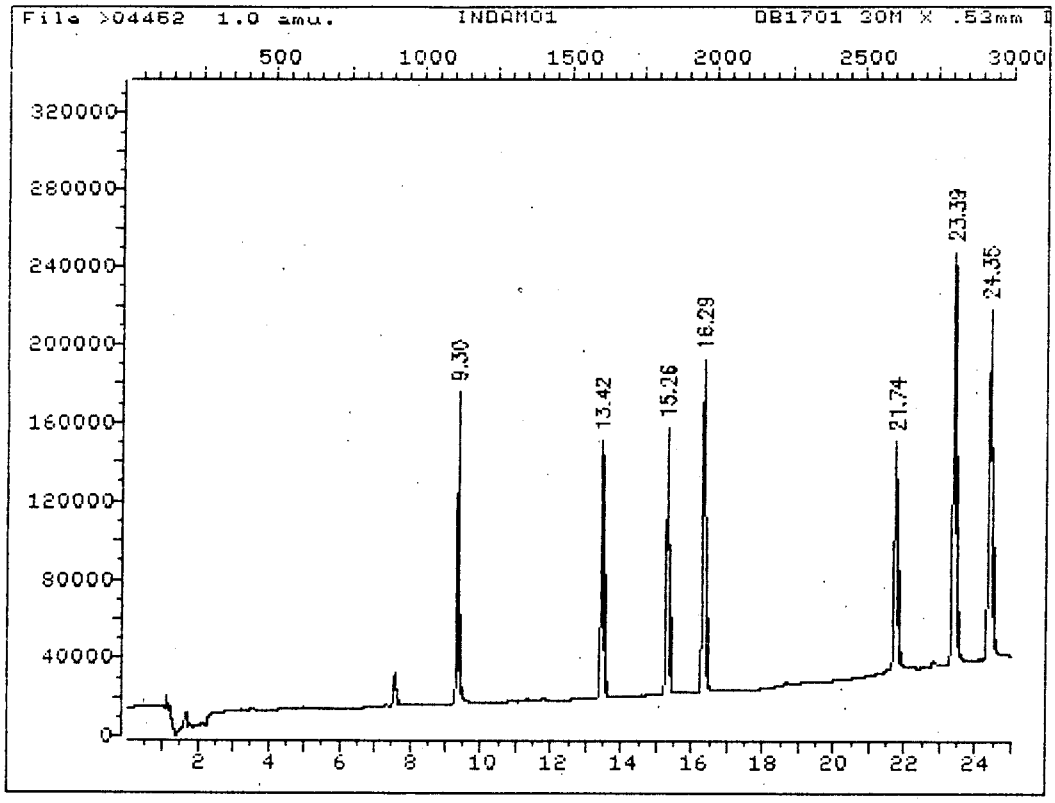
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 14:40
Output File: ^04452::GQ Injected at: 960724 01:44
Data File: >04452::G4 Dilution Factor: 1.00000
Name: INDAM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.30	1116	889810	20.00	ng/ml	100
2)	#alpha-BHC	0.020	13.42	1610	660424	20.00	ng/ml	100
5)	#gamma-BHC (Lindane)	0.020	15.26	1831	700854	20.00	ng/ml	100
6)	#Heptachlor	0.020	16.29	1955	956819	20.00	ng/ml	100
9)	#Endosulfan I	0.020	21.74	2609	709479	20.00	ng/ml	100
10)	#Dieldrin	0.040	23.39	2807	1297169	39.94	ng/ml	100
12)	#Endrin	0.040	24.35	2922	1185553	40.00	ng/ml	100
14)	#4,4'-DDD	0.040	26.52	3182	757006	40.00	ng/ml	100
16)	#4,4'-DDT	0.040	27.41	3289	678496	40.00	ng/ml	100
17)	#Methoxychlor	0.200	30.84	3700	2541982	195.84	ng/ml	100
19)	#Decachlorobiphenyl	0.040	38.68	4642	1877219	39.92	ng/ml	100

Compound uses ESTD

EPui
7/30/96



Data File: >04452::G4 Quant Output File: ^04452::GQ
Name: INDAM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:40
Injected at: 960724 01:44

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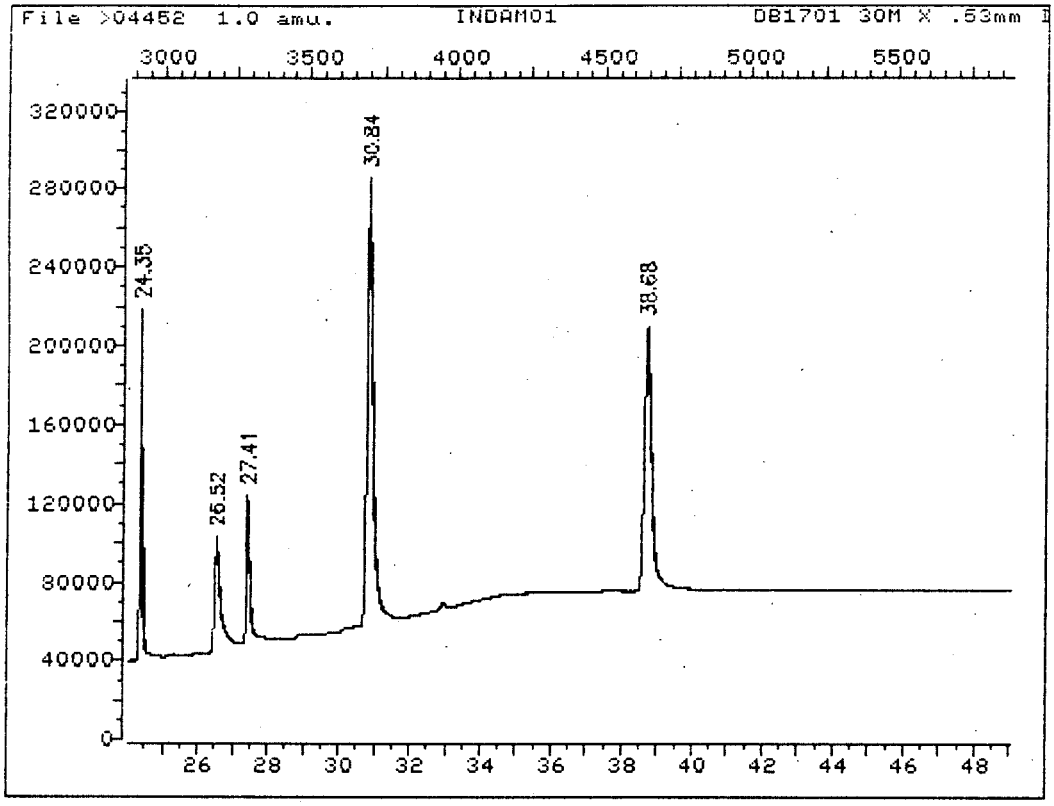

Data File: >04452::G4 Quant Output File: ^04452::GQ
Name: INDAM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:40
Injected at: 960724 01:44

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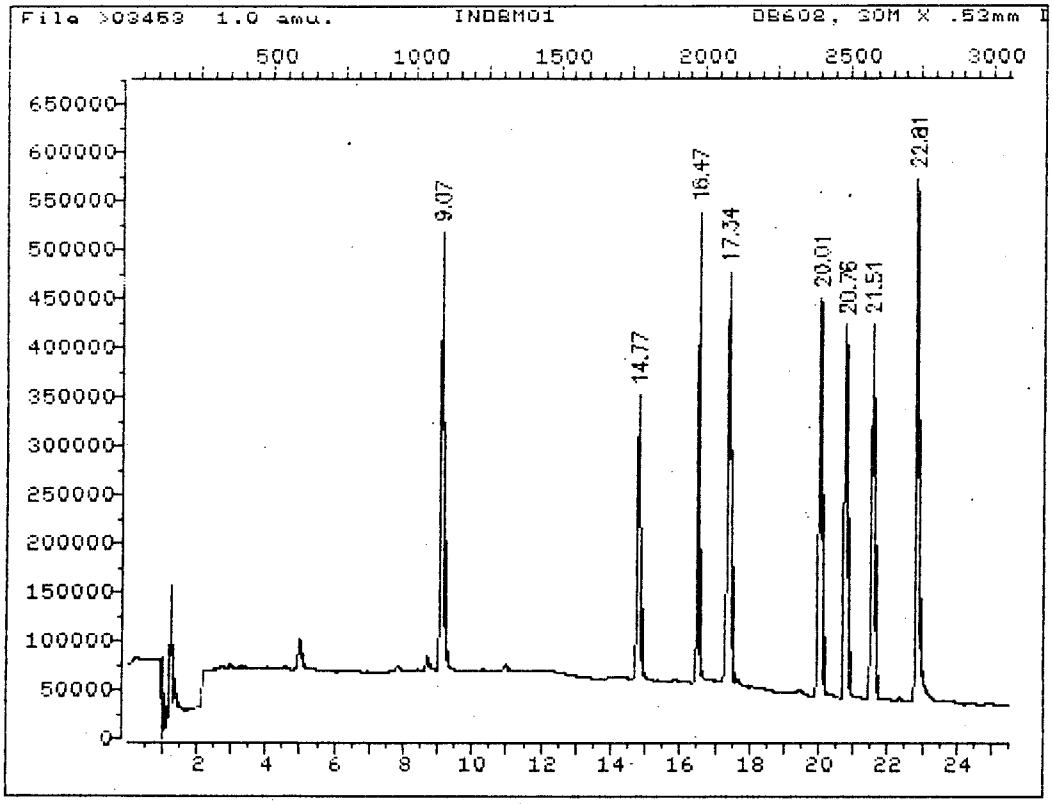
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 13:55
Output File: ^03453::GQ Injected at: 960724 02:38
Data File: >03453::G2 Dilution Factor: 1.00000
Name: INDBM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.07	1088	2549781	19.82	ng/ml	100
3)	#beta-BHC	0.020	14.77	1773	1693283	20.00	ng/ml	100
4)	#delta-BHC	0.020	16.47	1977	2619947	20.00	ng/ml	100
7)	#Aldrin	0.020	17.34	2081	2749341	20.00	ng/ml	100
8)	#Heptachlor epoxide	0.020	20.01	2401	2584323	20.00	ng/ml	100
11)	#4,4'-DDE	0.040	22.81	2737	3830019	40.00	ng/ml	100
13)	#Endosulfan II	0.040	25.79	3094	4029602	40.00	ng/ml	100
15)	#Endosulfan Sulfate	0.040	28.29	3395	3573031	40.00	ng/ml	100
18)	#Endrin ketone	0.040	32.74	3929	3777434	40.00	ng/ml	100
19)	#Decachlorobiphenyl	0.040	41.63	4996	4845287	40.67	ng/ml	100
20)	#alpha-Chlordane	0.020	21.51	2581	2478755	20.00	ng/ml	100
21)	#gamma-Chlordane	0.020	20.76	2491	2536349	20.00	ng/ml	100
30)	#Endrin aldehyde	0.040	27.59	3311	3260263	40.00	ng/ml	100

Compound uses ESTD

EPui
7/30/96



Data File: >03453::G2 Quant Output File: ^03453::GQ
Name: INDBM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time: 960724 13:55
Injected at: 960724 02:38

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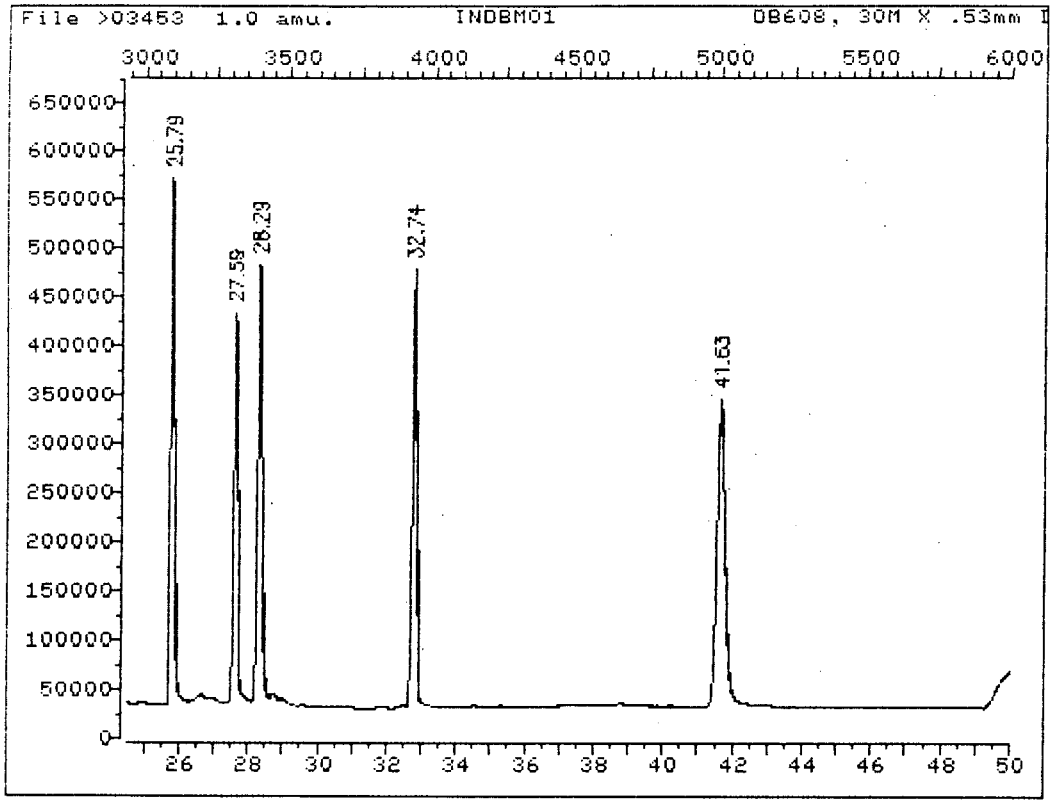

Data File: >03453::G2 Quant Output File: ^03453::GQ
Name: INDBM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:55
Injected at: 960724 02:38

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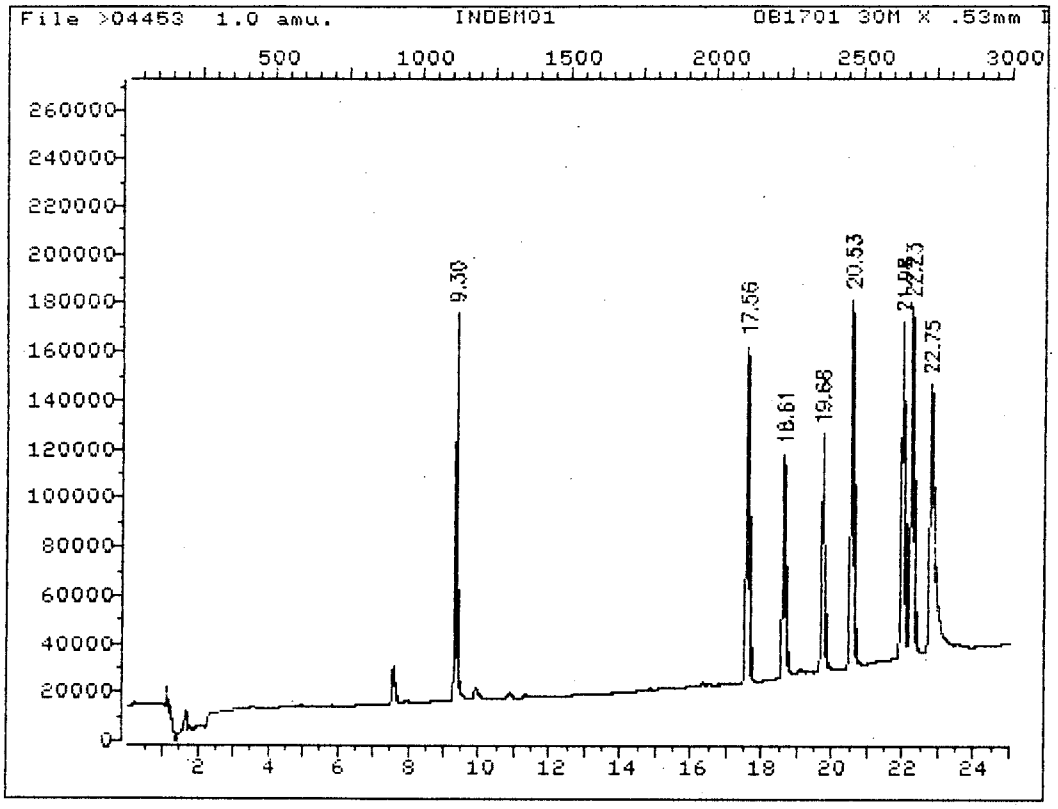
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 14:42
Output File: ^04453::GQ Injected at: 960724 02:38
Data File: >04453::G4 Dilution Factor: 1.00000
Name: INDBM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.30	1116	894146	20.10	ng/ml	100
3)	#beta-BHC	0.020	18.61	2233	507908	19.95	ng/ml	100
4)	#delta-BHC	0.020	19.68	2362	522035	19.98	ng/ml	100
7)	#Aldrin	0.020	17.56	2107	772305	20.00	ng/ml	100
8)	#Heptachlor epoxide	0.020	20.53	2464	888594	20.00	ng/ml	100
11)	#4,4'-DDE	0.040	22.75	2730	1127604	39.88	ng/ml	100
13)	#Endosulfan II	0.040	26.73	3207	1408483	40.00	ng/ml	100
15)	#Endosulfan Sulfate	0.040	30.57	3668	1080679	39.86	ng/ml	100
18)	#Endrin ketone	0.040	32.91	3949	1321730	40.00	ng/ml	100
19)	#Decachlorobiphenyl	0.040	38.69	4643	1913486	40.70	ng/ml	100
20)	#alpha-Chlordane	0.020	22.23	2667	855924	20.00	ng/ml	100
21)	#gamma-Chlordane	0.020	21.98	2637	818032	20.00	ng/ml	100
30)	#Endrin aldehyde	0.040	28.84	3460	1264318	39.60	ng/ml	100

Compound uses ESTD

EPM
7/30/96

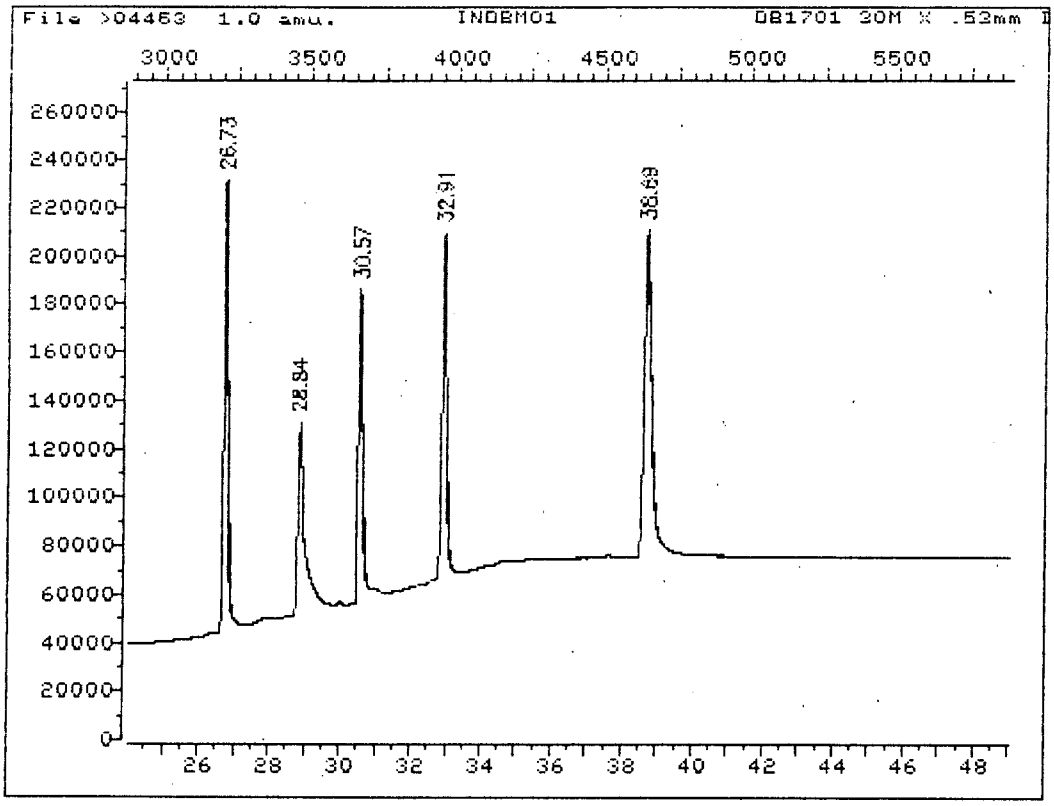


Data File: >04453::G4 Quant Output File: ^04453::GQ
Name: INDBM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:42
Injected at: 960724 02:38

Page 1 of 2



Data File: >04453::G4 Quant Output File: ^04453::GQ
Name: INDBM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:42
Injected at: 960724 02:38

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QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 13:41
Output File: 03443::G0 Injected at: 960723 17:31
Data File: 03443::G2 Dilution Factor: 1.00000
Name: AR166001 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng Injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.07	1088	2303884	17.91	ng/ml	100
19)	#Decachlorobiphenyl	0.020	41.63	4995	2439099	20.47	ng/ml	100
23)	#Aroclor-1016(1)	0.100	12.28	1474	275207	100.00	ng/ml	100
29)	#Aroclor-1260(1)	0.100	24.38	2926	621612	100.00	ng/ml	100
34)	#Aroclor-1016(2)	0.100	14.29	1715	587294	99.75	ng/ml	100
35)	#Aroclor-1016(3)	0.100	16.01	1921	1110185	100.00	ng/ml	100
36)	#Aroclor-1016(4)	0.100	16.76	2011	381902	100.00	ng/ml	100
37)	#Aroclor-1016(5)	0.100	19.00	2280	335799	99.95	ng/ml	100
55)	#Aroclor-1260(2)	0.100	24.84	2981	699221	100.00	ng/ml	100
56)	#Aroclor-1260(3)	0.100	26.55	3186	684173	100.00	ng/ml	100
57)	#Aroclor-1260(4)	0.100	30.14	3617	1238504	99.22	ng/ml	100
58)	#Aroclor-1260(5)	0.100	32.91	3949	534719	100.27	ng/ml	100

Compound uses ESTD

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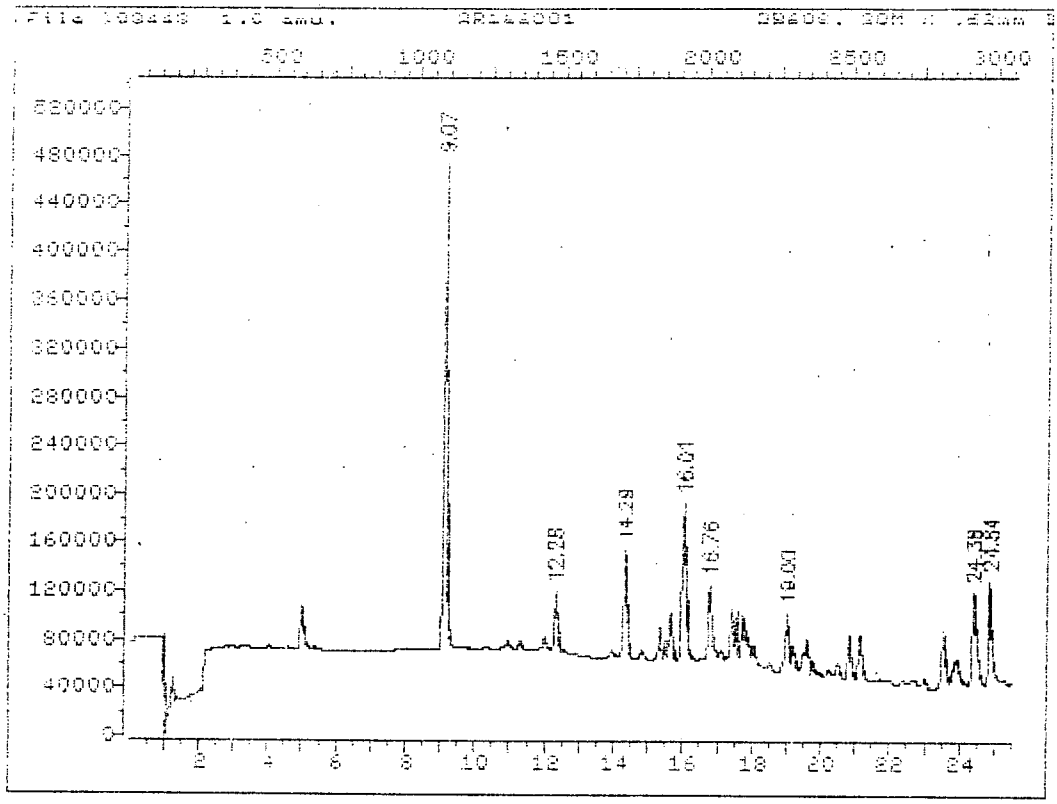

Data File: >03443::G2 Quant Output File: ^03443::GQ
Name: AR166001 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:41
Injected at: 960723 17:31

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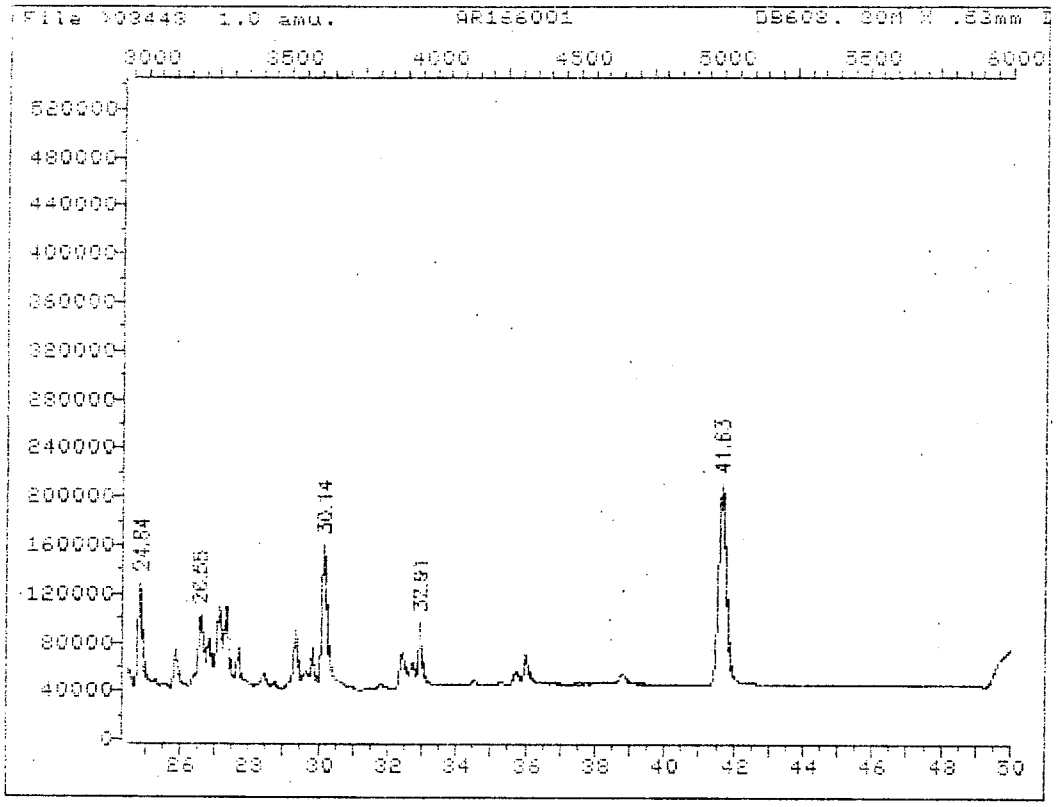

Data File: >03443::G2 Quant Output File: ^03443::GQ
Name: AR166001 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58905, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:41
Injected at: 960723 17:51

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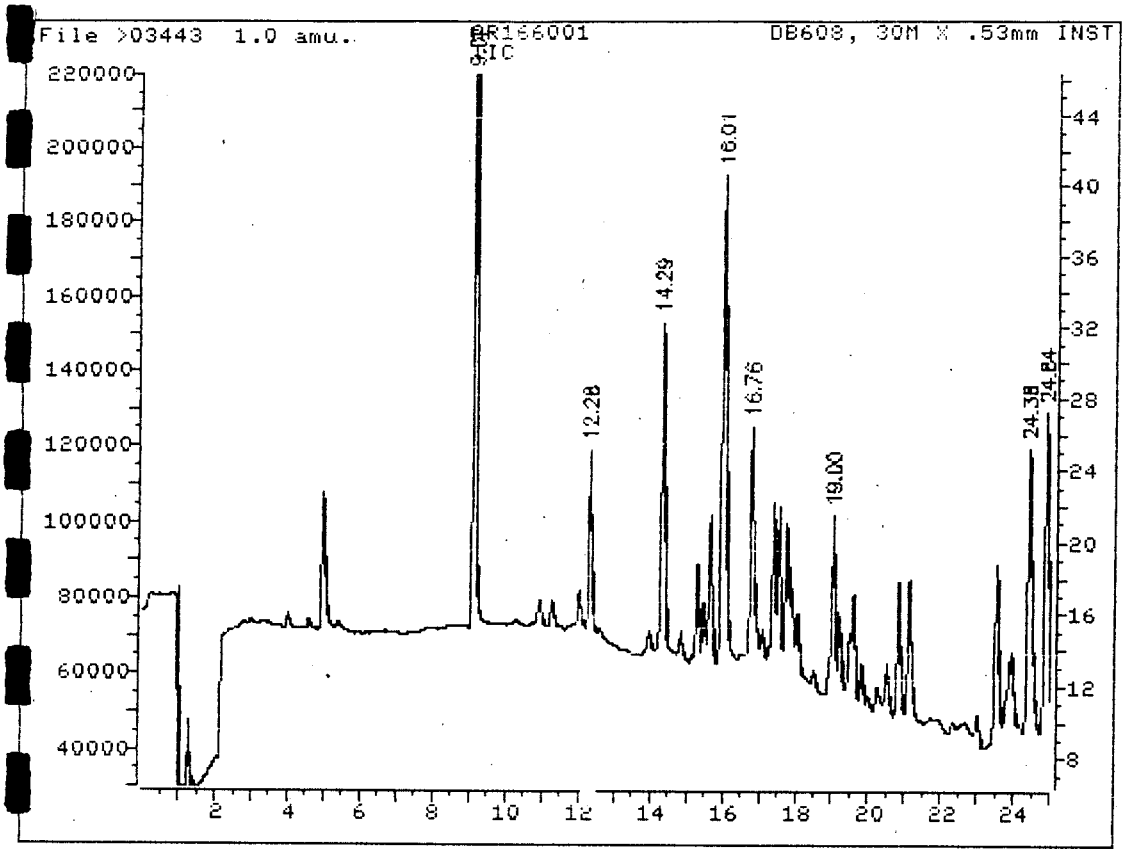
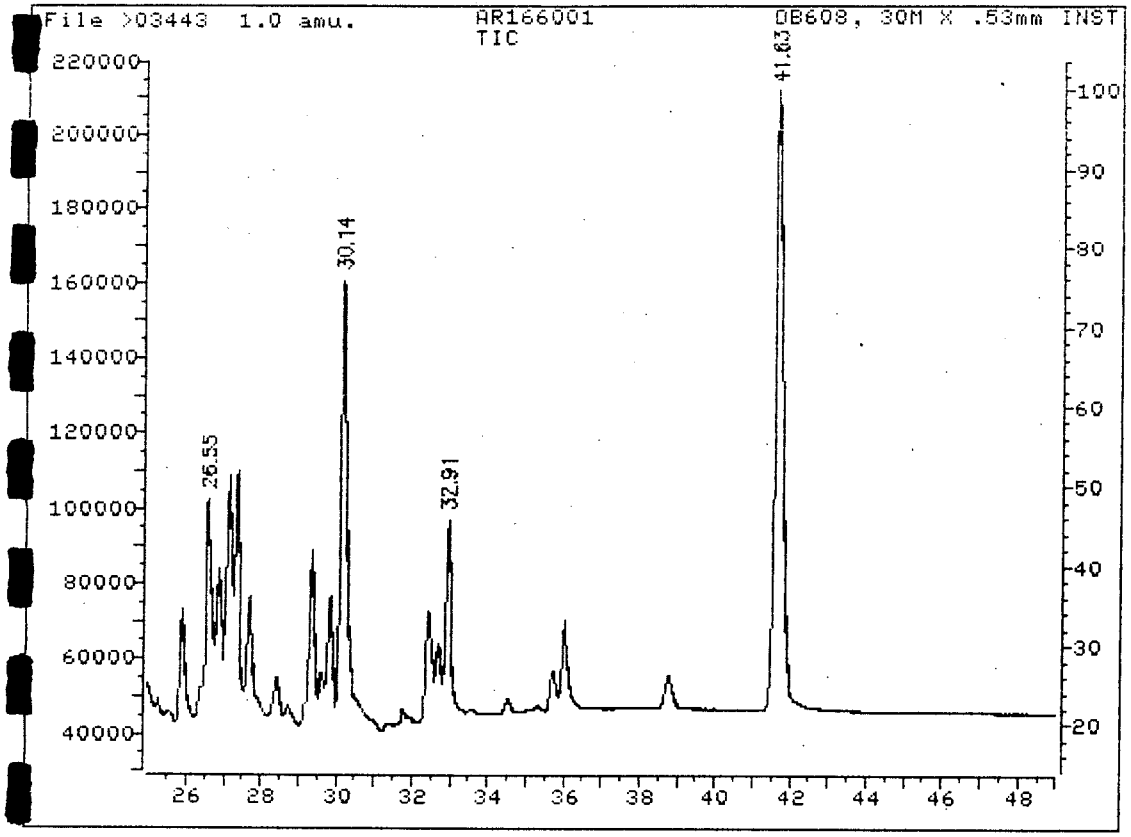


MS data file header from : >03443::G2

Sample: AR166001 Operator: TRFI2 7/23/96 17:31
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03443::G2

Sample: AR166001 Operator: TRFI2 7/23/96 17:31
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 14:25
Output File: ^04443::G3 Injected at: 960723 17:31
Data File: >04443::G4 Dilution Factor: 1.00000
Name: AR16o001 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 55903. 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Scal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.30	1116	811330	18.24	ng/ml	100
19)	#Decachlorobiphenyl	0.020	38.68	4641	929381	19.77	ng/ml	100
23)	#Aroclor-1016(1)	0.100	12.07	1448	120101	100.00	ng/ml	100
29)	#Aroclor-1260(1)	0.100	23.77	2852	241761	100.00	ng/ml	100
34)	#Aroclor-1016(2)	0.100	13.83	1660	242074	100.00	ng/ml	100
35)	#Aroclor-1016(3)	0.100	15.97	1916	394135	100.00	ng/ml	100
36)	#Aroclor-1016(4)	0.100	16.52	1983	150708	101.07	ng/ml	100
37)	#Aroclor-1016(5)	0.100	18.55	2226	197590	99.91	ng/ml	100
55)	#Aroclor-1260(2)	0.100	24.89	2987	270655	99.65	ng/ml	100
56)	#Aroclor-1260(3)	0.100	28.43	3411	157739	100.00	ng/ml	100
57)	#Aroclor-1260(4)	0.100	30.05	3606	426285	100.00	ng/ml	100
58)	#Aroclor-1260(5)	0.100	32.02	3842	266740	100.00	ng/ml	100

Compound uses ESTD

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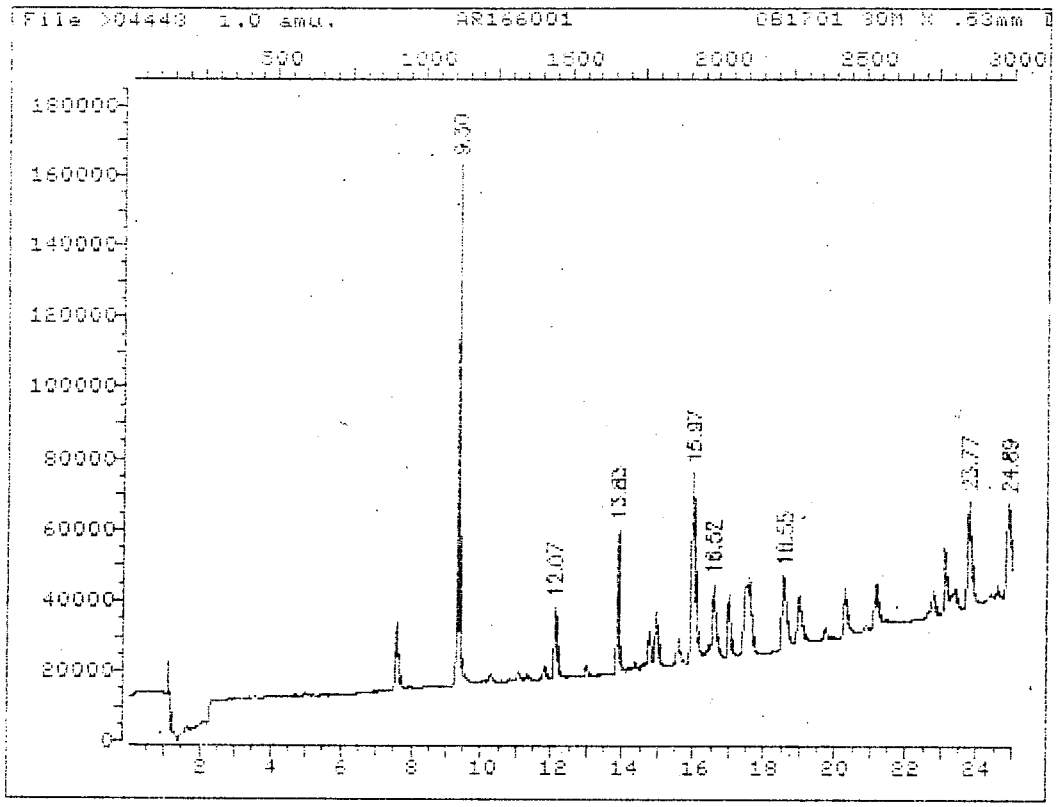

Data File: >04443::G4 Quant Output File: ^04443::GQ
Name: AR166001 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:25
Injected at: 960723 17:31

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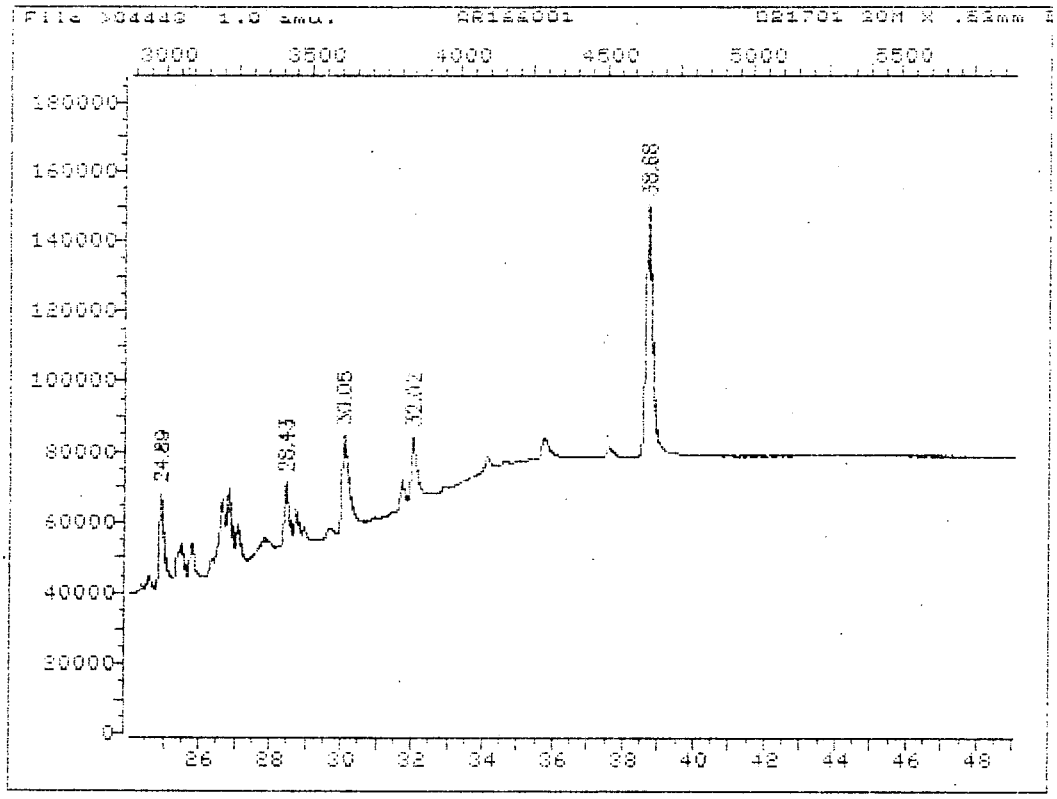

Data File: >04443::G4 Quant Output File: >04443::GQ
Name: AR166001 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:25
Injected at: 960723 17:31

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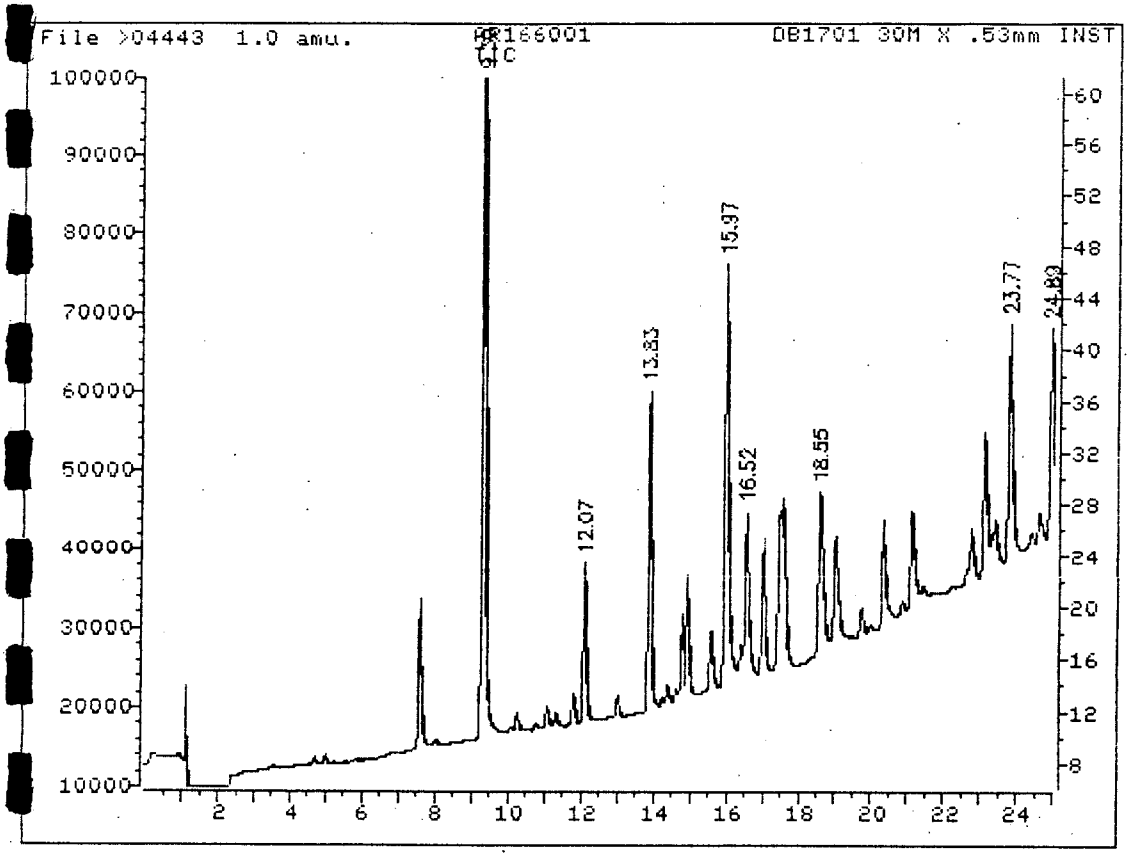
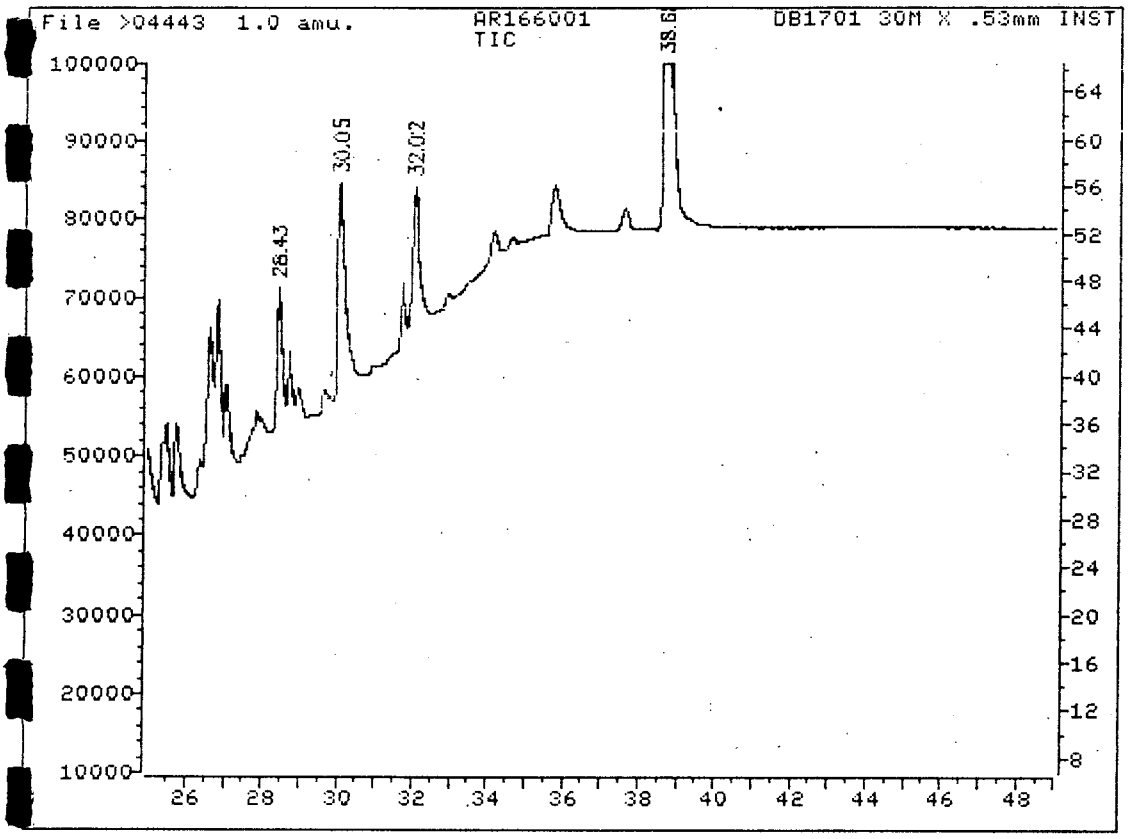


MS data file header from : >04443::G4

Sample: AR166001 Operator: TRFI2 7/23/96 17:31
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04443::G4

Sample: AR166001 Operator: TRFI2 7/23/96 17:31
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 14:07
Output File: ^03459::GQ Injected at: 960724 08:07
Data File: >03459::G2 Dilution Factor: 1.00000
Name: GPCPEST Instrument ID: GC03
Disc: DB608. 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Compound	R.T.	Scan#	Area	Conc	Units	q
5) #gamma-BHC (Lindane)	14.35	1722	5982209	42.45	ng/ml	100
6) #Heptachlor	15.84	1901	5303373	45.78	ng/ml	100
7) #Aldrin	17.35	2082	5910914	43.00	ng/ml	100
10) #Dieldrin	23.02	2762	9314122	95.06	ng/ml	100
12) #Endrin	24.81	2977	8466760	95.04	ng/ml	100
16) #4,4'-DDT	27.19	3263	6497712	94.51	ng/ml	100

Compound uses ESTD

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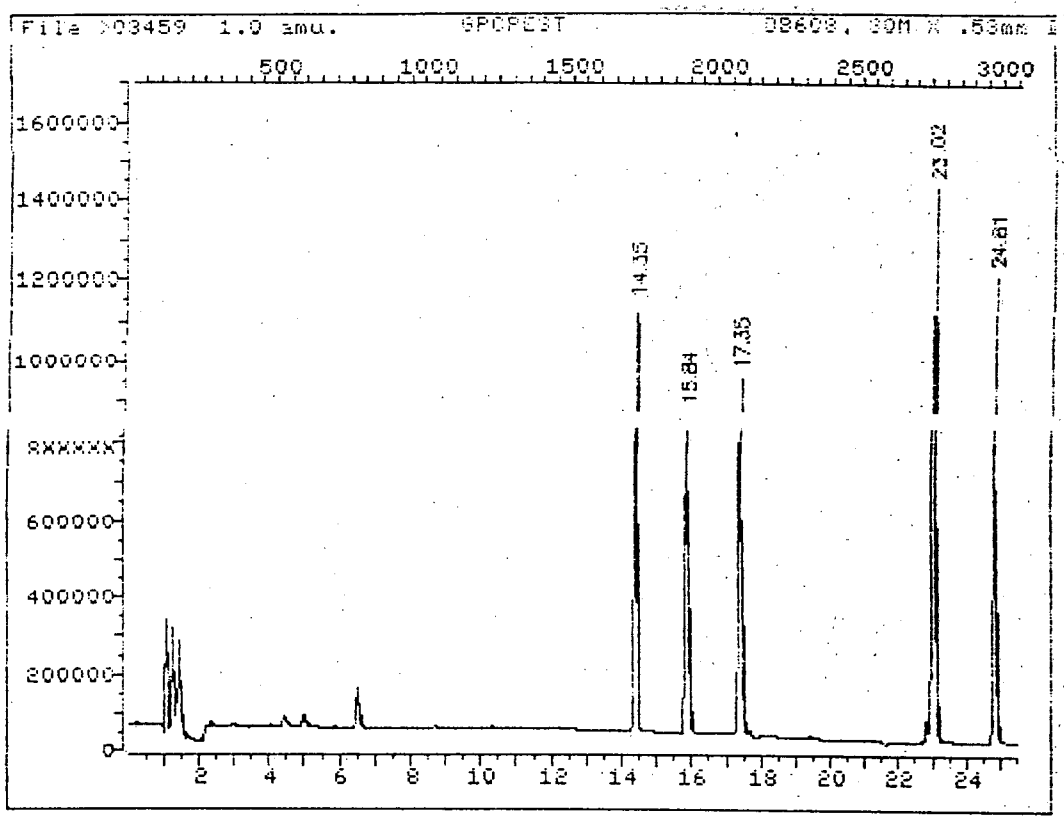

Data File: >03459::C2 Quant Output File: ^03459::GQ
Name: GPCPEST Instrument ID: GC03
Misc: DB608. 30M X .53mm INST 58903. 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:07
Injected at: 960724 08:07

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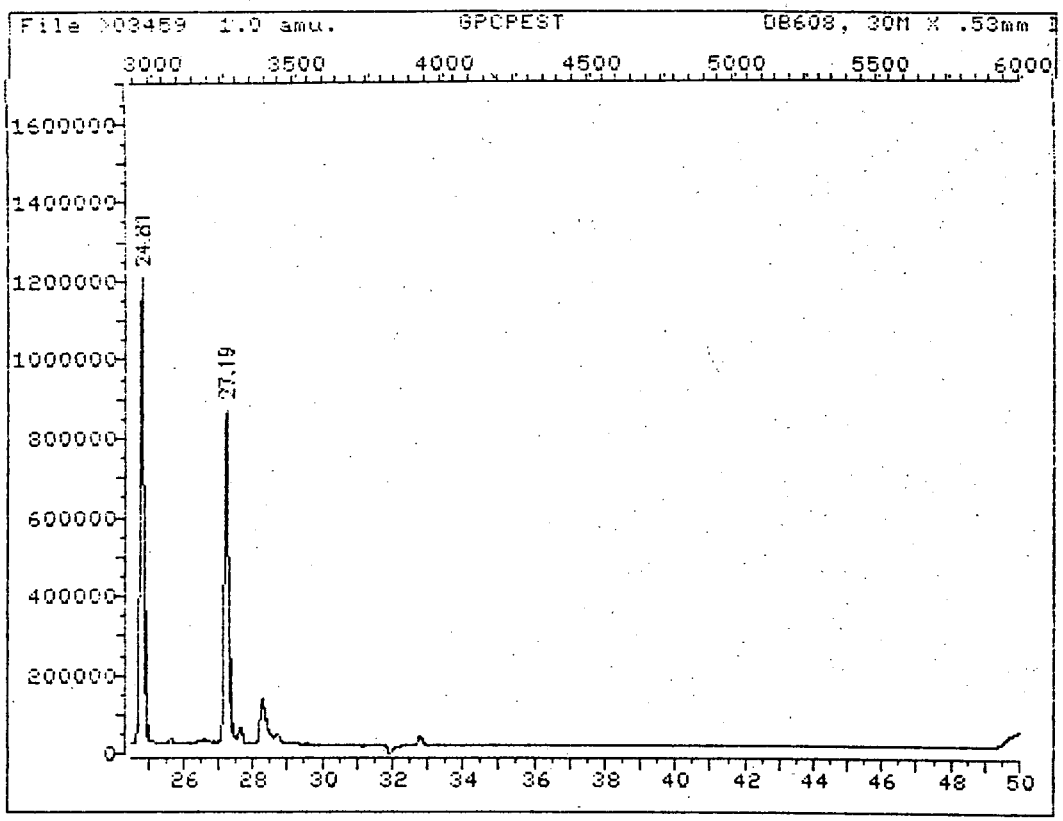

Data File: >03459::G2 Quant Output File: ^03459::GQ
Name: GPCPEST Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:07
Injected at: 960724 08:07

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QUANT REPORT

Operator ID: TRFIZ
Output File: ^03460::GQ
Data File: >03460::G2
Name: GPCPCB
Misc: DB608. 30M X .53mm INST 58903. 1ul INJ

Quant Rev: 7
Quant Time: 960724 14:09
Injected at: 960724 09:02
Dilution Factor: 1.00000
Instrument ID: GC03

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07
Last Qcal Time: 960724 02:38

Compound	R.T.	Scan#	Area	Conc	Units	q
23) #Aroclor-1016(1)	12.28	1474	261002	94.84	ng/ml	100
29) #Aroclor-1260(1)	24.38	2926	775181M	124.70	ng/ml	100
34) #Aroclor-1016(2)	14.29	1715	572052	97.15	ng/ml	100
35) #Aroclor-1016(3)	16.02	1922	1134161	102.16	ng/ml	100
36) #Aroclor-1016(4)	16.77	2012	425287	111.36	ng/ml	100
37) #Aroclor-1016(5)	19.00	2280	451235	134.31	ng/ml	100
55) #Aroclor-1260(2)	24.85	2982	817376M	116.90	ng/ml	100
56) #Aroclor-1260(3)	26.55	3186	557903	81.54	ng/ml	100
57) #Aroclor-1260(4)	30.14	3617	1172262	93.91	ng/ml	100
58) #Aroclor-1260(5)	32.90	3948	579067	108.59	ng/ml	100

Compound uses ESTD

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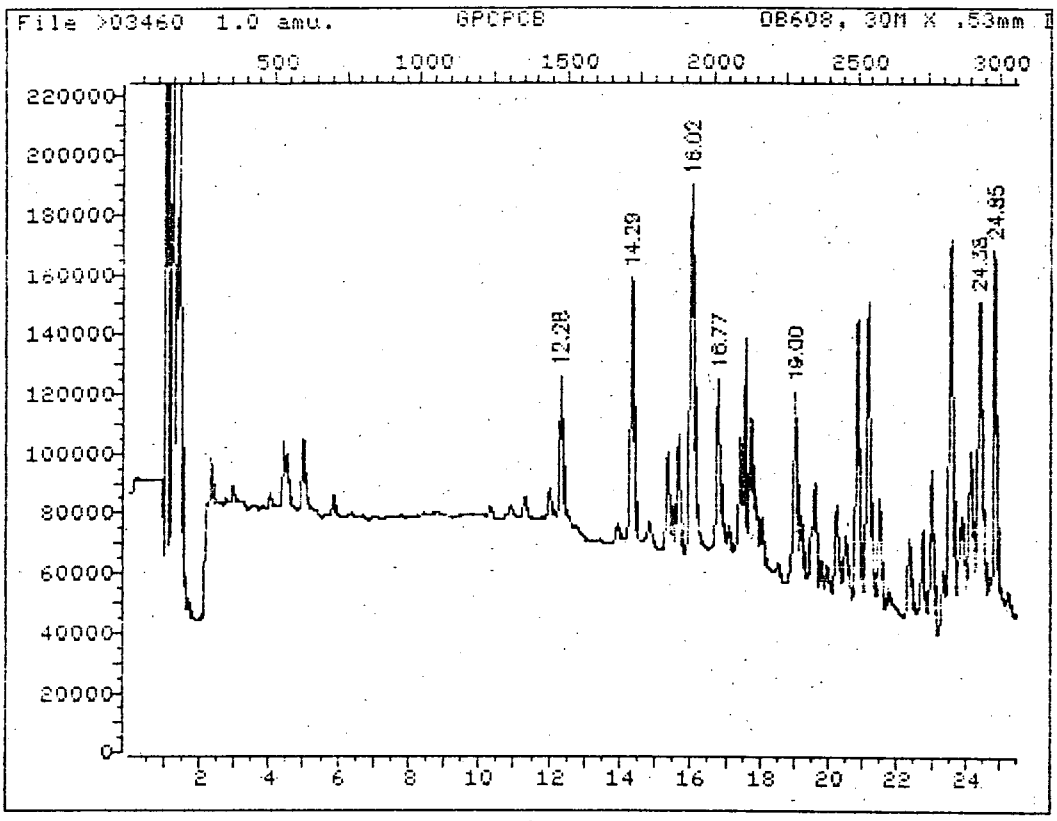

Data File: >03460::G2 Quant Output File: ^03460::GQ
Name: GPCPCB Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:09
Injected at: 960724 09:02

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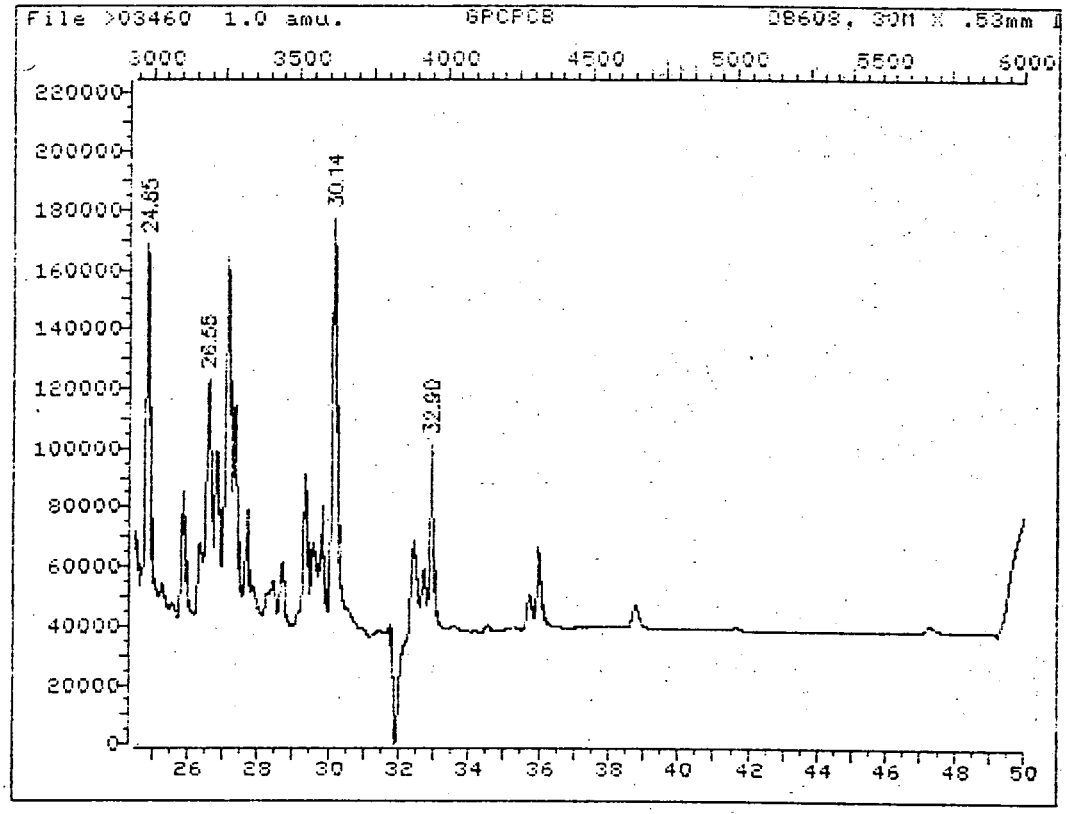

Data File: >03460::G2 Quant Output File: ^03460::GQ
Name: GPCPCB Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903. 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:09
Injected at: 960724 09:02

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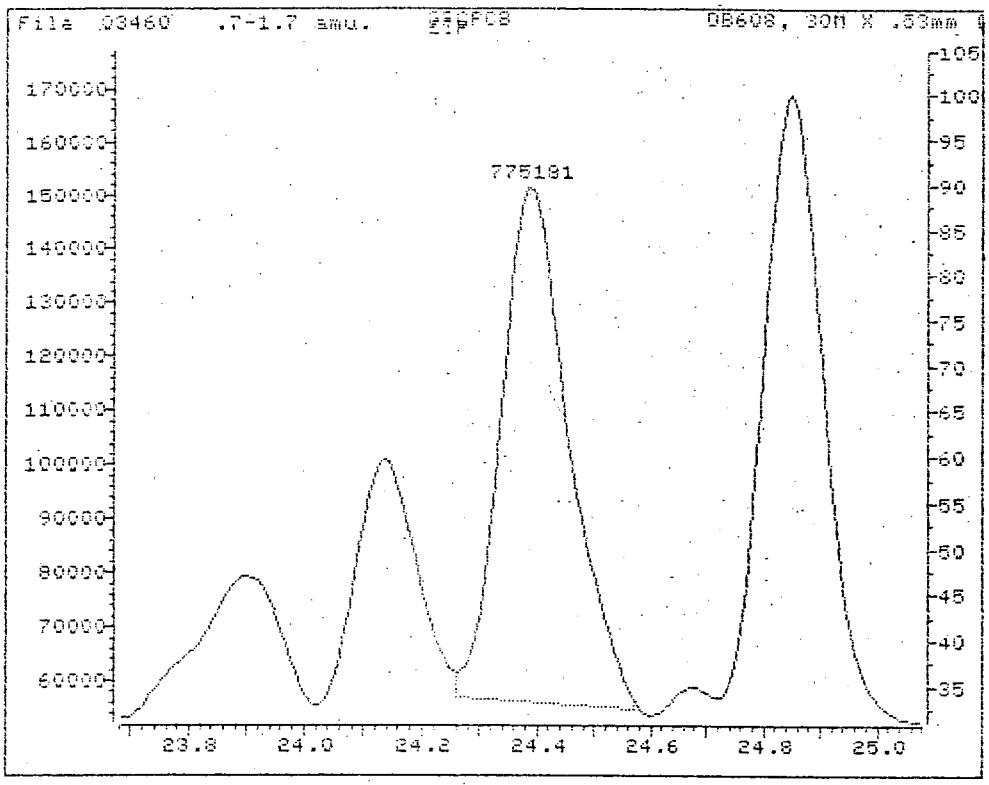
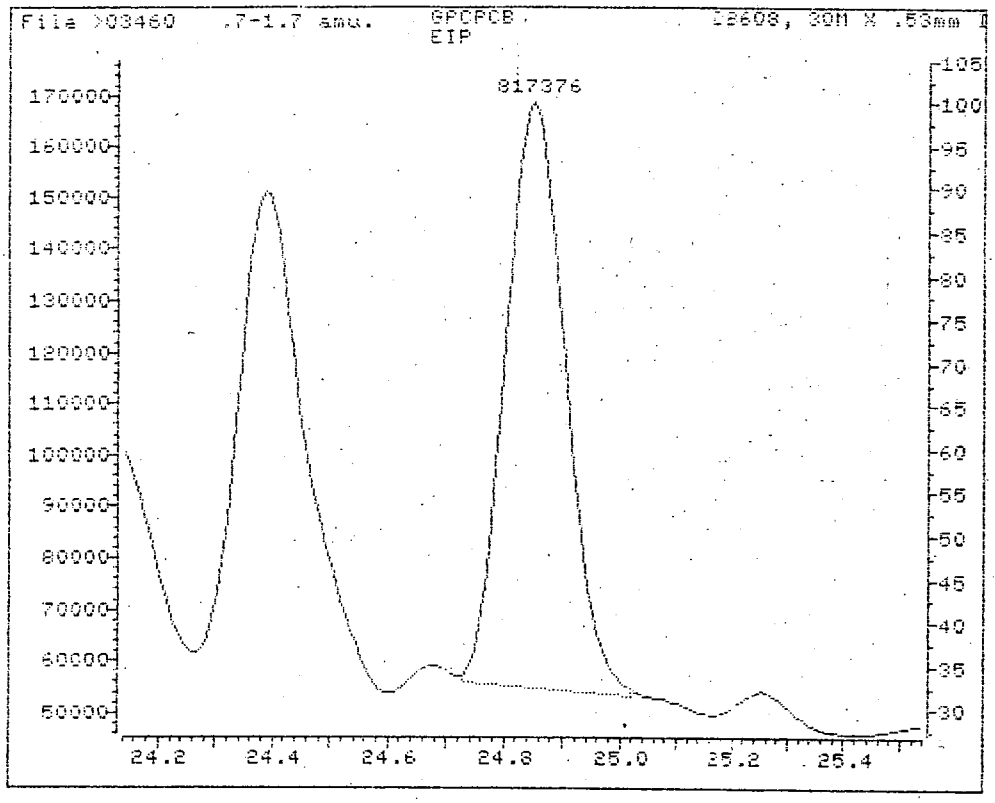


Data File: >03460::G2 Quant Output File: ^03460::GQ
Name: GPCPCB Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960724 14:09 Quant ID File: IDCAP1::SC
Injected at: 960724 09:02 Last Calibration: 941029 10:07

Compound No: 29
Compound Name: Aroclor-1260(1)
Scan Number: 2926
Retention Time: 24.38 min.
Quant Ion: 1.0
Area: 775181M
Concentration: 124.70 ng/ml
q-value: 100

This report was produced by QAREA on: 960731 15:25



Data File: >03460::G2 Quant Output File: ^03460::G0
Name: GPCPCB Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ
Quant Time: 960724 14:09 Quant ID File: IDCAP1::SC
Injected at: 960724 09:02 Last Calibration: 941029 10:07

Compound No: 55
Compound Name: Aroclor-1260(2)
Scan Number: 2982
Retention Time: 24.85 min.
Quant Ion: 1.0
Area: 817376M
Concentration: 116.90 ng/ml
q-value: 100

This report was produced by QAREA on: 960731 16:29

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 13:54
Output File: ^03452::GQ Injected at: 960724 01:44
Data File: >03452::G2 Dilution Factor: 1.00000
Name: INDAM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.07	1088	2573300	20.00	ng/ml	100
2)	#alpha-BHC	0.020	12.46	1495	3029042	19.98	ng/ml	100
5)	#gamma-BHC (Lindane)	0.020	14.35	1722	2818477	20.00	ng/ml	100
6)	#Heptachlor	0.020	15.84	1901	2316679	20.00	ng/ml	100
9)	#Endosulfan I	0.020	21.58	2590	2171852	20.00	ng/ml	100
10)	#Dieldrin	0.040	23.02	2762	3919320	40.00	ng/ml	100
12)	#Endrin	0.040	24.81	2977	3563283	40.00	ng/ml	100
14)	#4,4'-DDD	0.040	25.61	3073	2461463	40.30	ng/ml	100
16)	#4,4'-DDT	0.040	27.19	3262	2750001	40.00	ng/ml	100
17)	#Methoxychlor	0.200	32.44	3892	7864900	199.97	ng/ml	100
19)	#Decachlorobiphenyl	0.040	41.63	4996	4760312	39.96	ng/ml	100

Compound uses ESTD

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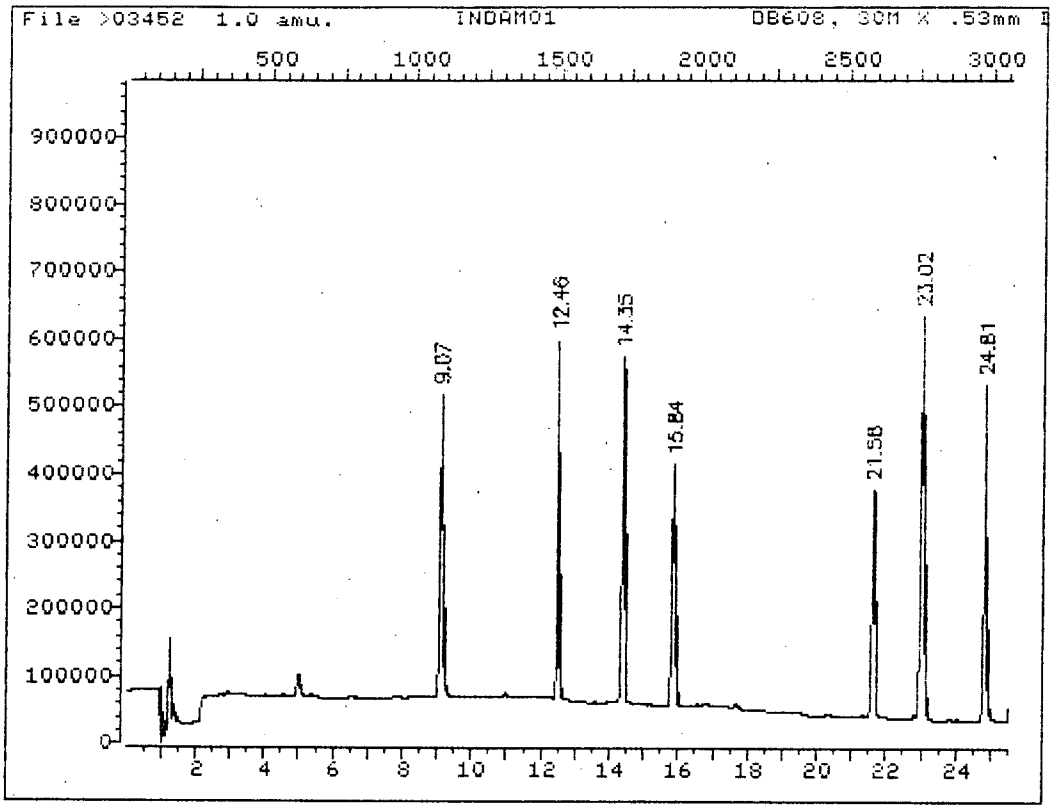

Data File: >03452::G2 Quant Output File: ^03452::GQ
Name: INDAM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:54
Injected at: 960724 01:44

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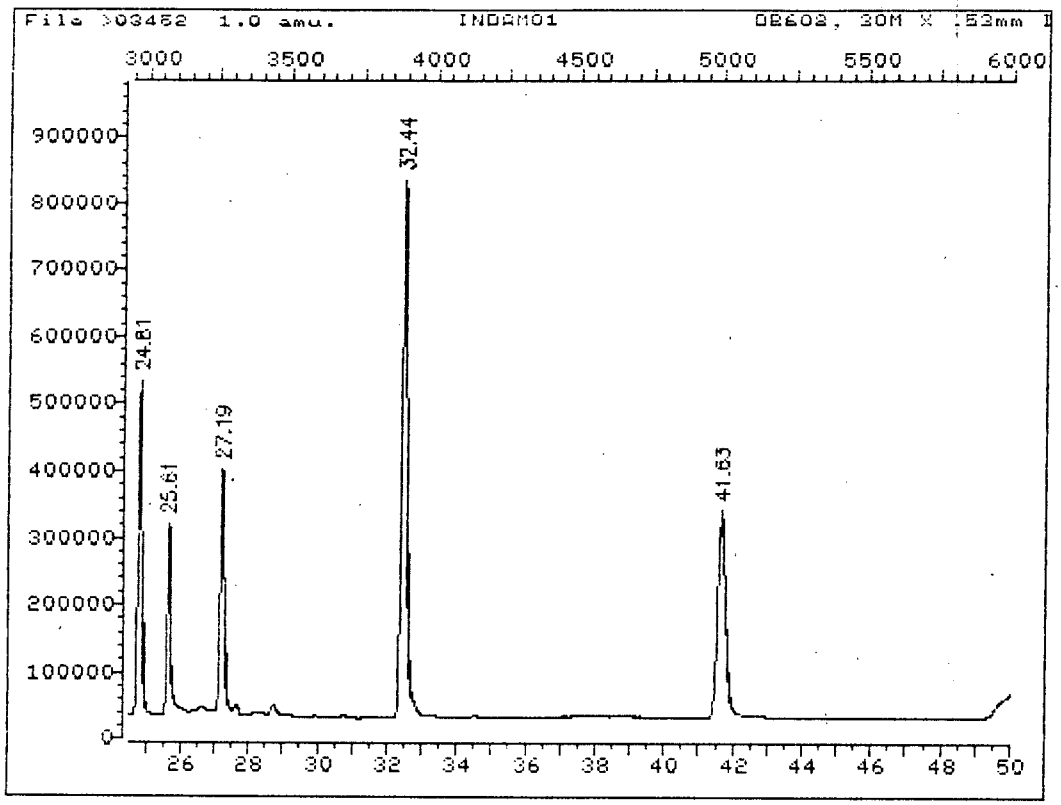

Data File: >03452::G2 Quant Output File: ^03452::GQ
Name: INDAM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:54
Injected at: 960724 01:44

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QUANT REPORT

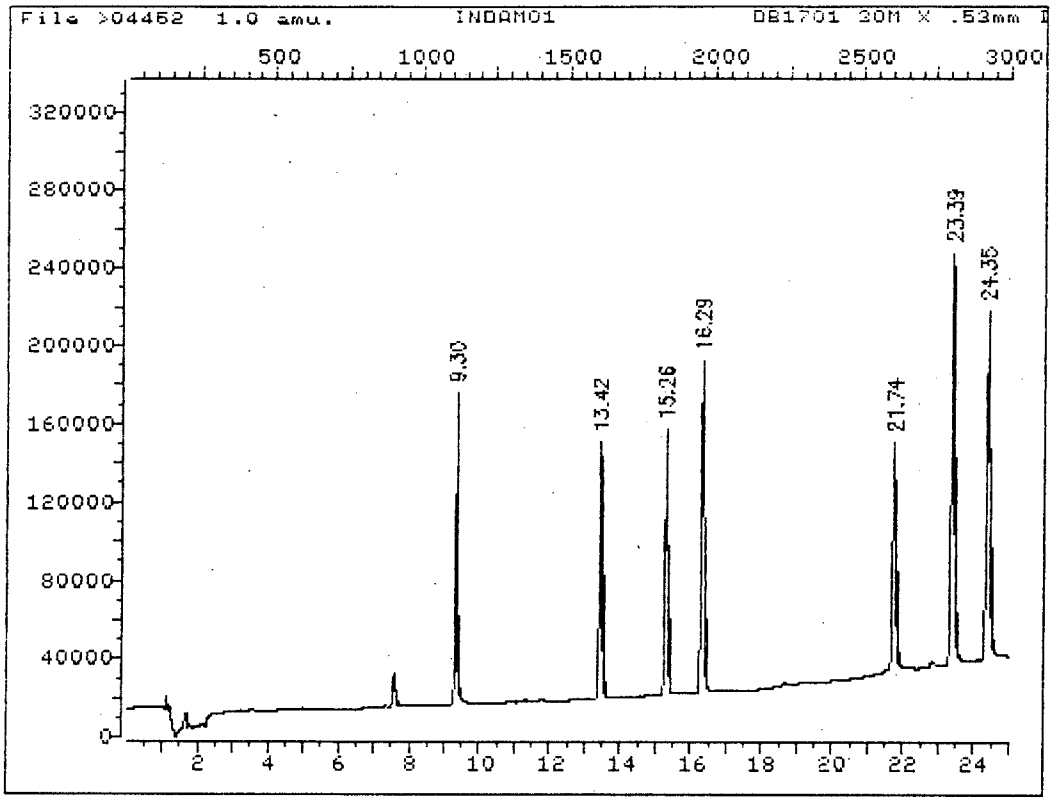
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 14:40
Output File: ^04452::GQ Injected at: 960724 01:44
Data File: >04452::G4 Dilution Factor: 1.00000
Name: INDAM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.30	1116	889810	20.00	ng/ml	100
2)	#alpha-BHC	0.020	13.42	1610	660424	20.00	ng/ml	100
5)	#gamma-BHC (Lindane)	0.020	15.26	1831	700854	20.00	ng/ml	100
6)	#Heptachlor	0.020	16.29	1955	956819	20.00	ng/ml	100
9)	#Endosulfan I	0.020	21.74	2609	709479	20.00	ng/ml	100
10)	#Dieldrin	0.040	23.39	2807	1297169	39.94	ng/ml	100
12)	#Endrin	0.040	24.35	2922	1185553	40.00	ng/ml	100
14)	#4,4'-DDD	0.040	26.52	3182	757006	40.00	ng/ml	100
16)	#4,4'-DDT	0.040	27.41	3289	678496	40.00	ng/ml	100
17)	#Methoxychlor	0.200	30.84	3700	2541982	195.84	ng/ml	100
19)	#Decachlorobiphenyl	0.040	38.68	4642	1877219	39.92	ng/ml	100

Compound uses ESTD

EPui
7/30/96



Data File: >04452::G4 Quant Output File: ^04452::GQ
Name: INDAM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:40
Injected at: 960724 01:44

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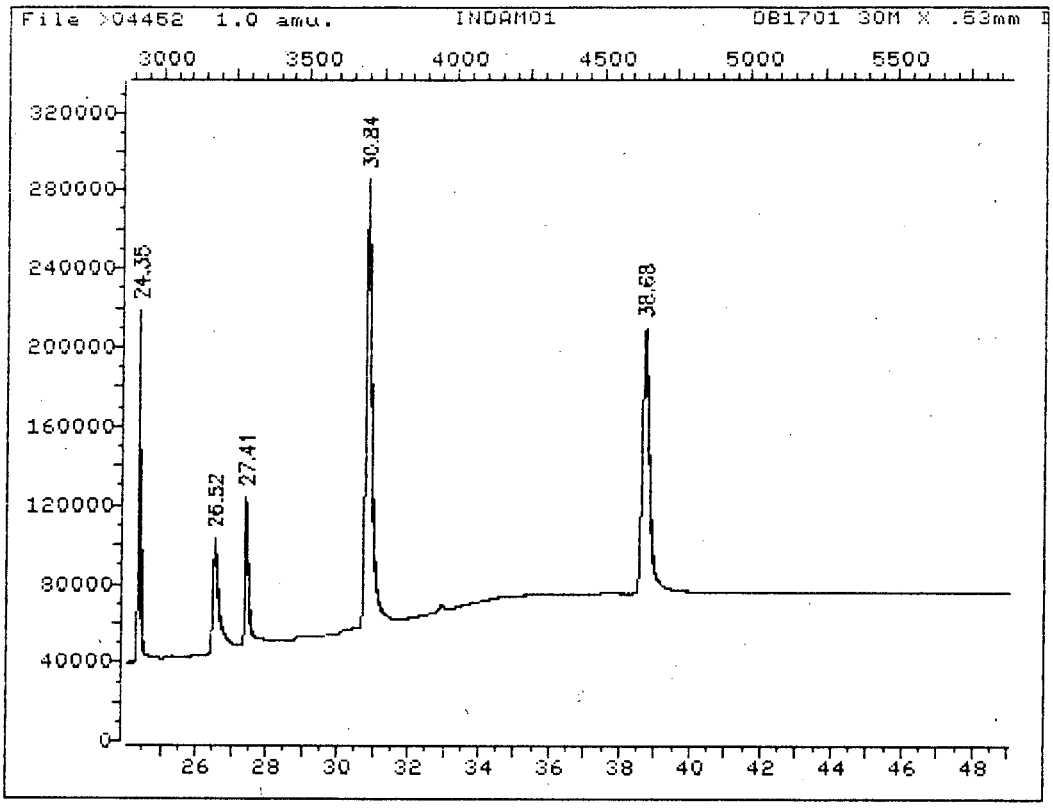


Data File: >04452::G4 Quant Output File: ^04452::GQ
Name: INDAM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:40
Injected at: 960724 01:44

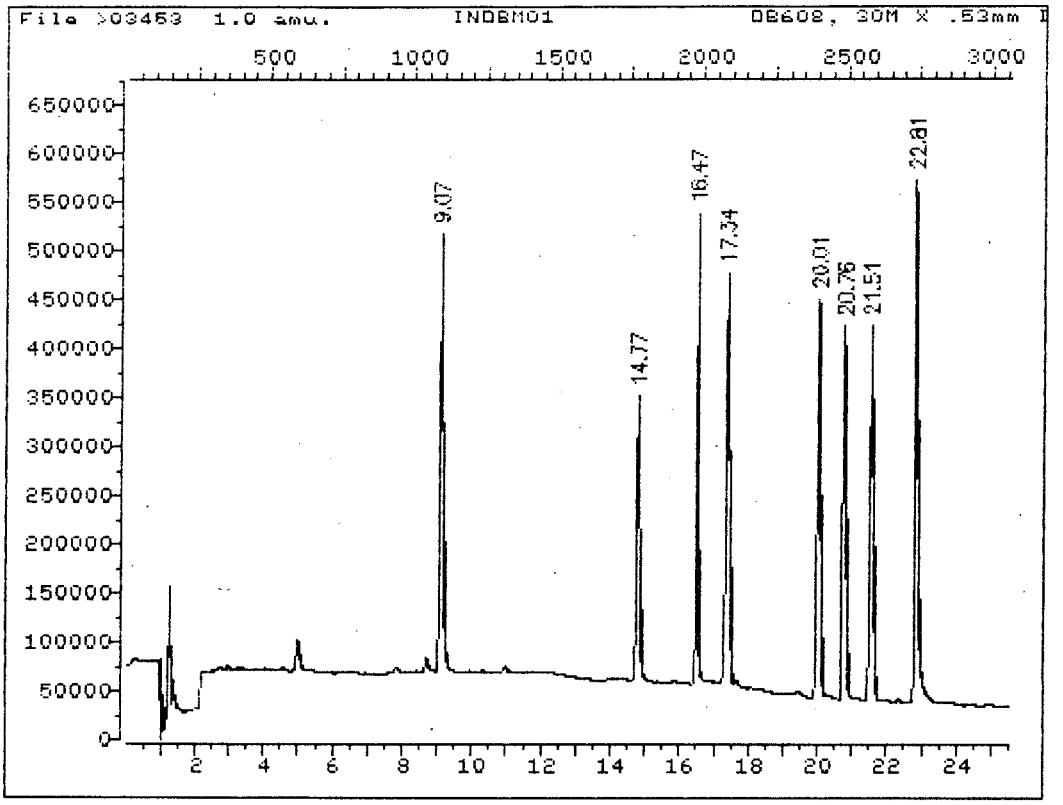
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 13:55
Output File: ^03453::GQ Injected at: 960724 02:38
Data File: >03453::G2 Dilution Factor: 1.00000
Name: INDBM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.07	1088	2549781	19.82	ng/ml	100
3)	#beta-BHC	0.020	14.77	1773	1693283	20.00	ng/ml	100
4)	#delta-BHC	0.020	16.47	1977	2619947	20.00	ng/ml	100
7)	#Aldrin	0.020	17.34	2081	2749341	20.00	ng/ml	100
8)	#Heptachlor epoxide	0.020	20.01	2401	2584323	20.00	ng/ml	100
11)	#4,4'-DDE	0.040	22.81	2737	3830019	40.00	ng/ml	100
13)	#Endosulfan II	0.040	25.79	3094	4029602	40.00	ng/ml	100
15)	#Endosulfan Sulfate	0.040	28.29	3395	3573031	40.00	ng/ml	100
18)	#Endrin ketone	0.040	32.74	3929	3777434	40.00	ng/ml	100
19)	#Decachlorobiphenyl	0.040	41.63	4996	4845287	40.67	ng/ml	100
20)	#alpha-Chlordane	0.020	21.51	2581	2478755	20.00	ng/ml	100
21)	#gamma-Chlordane	0.020	20.76	2491	2536349	20.00	ng/ml	100
30)	#Endrin aldehyde	0.040	27.59	3311	3260263	40.00	ng/ml	100

Compound uses ESTD

EPui
7/30/96



Data File: >03453::G2 Quant Output File: ^03453::GQ
Name: INDBM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:55
Injected at: 960724 02:38

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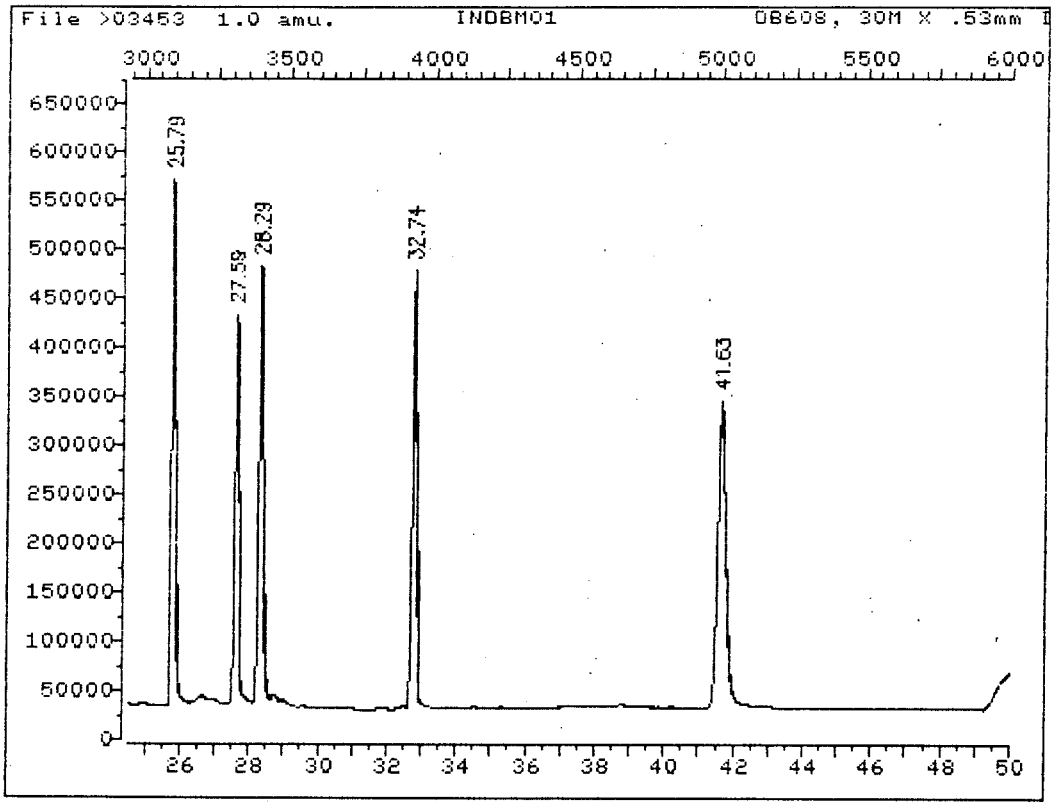

Data File: >03453::G2 Quant Output File: ^03453::GQ
Name: INDBM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:55
Injected at: 960724 02:38

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QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 14:42
Output File: ^04453::GQ Injected at: 960724 02:38
Data File: >04453::G4 Dilution Factor: 1.00000
Name: INDBM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.30	1116	894146	20.10	ng/ml	100
3)	#beta-BHC	0.020	18.61	2233	507908	19.95	ng/ml	100
4)	#delta-BHC	0.020	19.68	2362	522035	19.98	ng/ml	100
7)	#Aldrin	0.020	17.56	2107	772305	20.00	ng/ml	100
8)	#Heptachlor epoxide	0.020	20.53	2464	888594	20.00	ng/ml	100
11)	#4,4'-DDE	0.040	22.75	2730	1127604	39.88	ng/ml	100
13)	#Endosulfan II	0.040	26.73	3207	1408483	40.00	ng/ml	100
15)	#Endosulfan Sulfate	0.040	30.57	3668	1080679	39.86	ng/ml	100
18)	#Endrin ketone	0.040	32.91	3949	1321730	40.00	ng/ml	100
19)	#Decachlorobiphenyl	0.040	38.69	4643	1913486	40.70	ng/ml	100
20)	#alpha-Chlordane	0.020	22.23	2667	855924	20.00	ng/ml	100
21)	#gamma-Chlordane	0.020	21.98	2637	818032	20.00	ng/ml	100
30)	#Endrin aldehyde	0.040	28.84	3460	1264318	39.60	ng/ml	100

Compound uses ESTD

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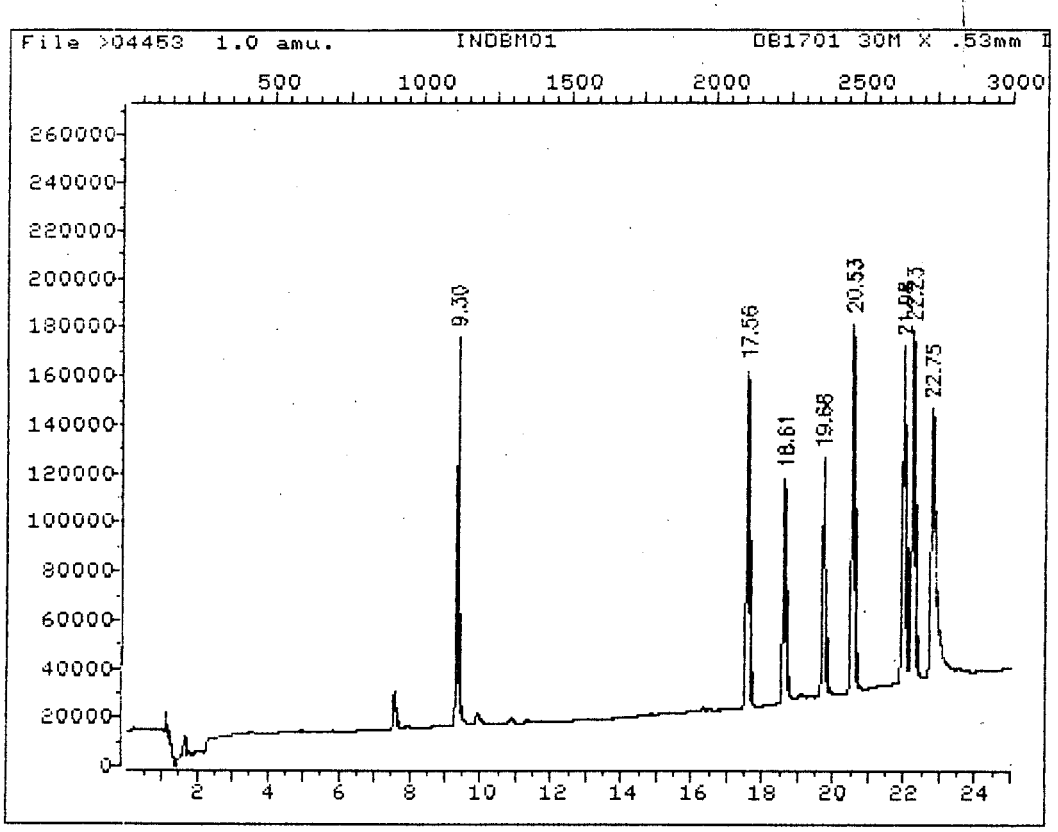
7/30/96



Data File: >04453::G4 Quant Output File: ^04453::GQ
Name: INDBM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:42
Injected at: 960724 02:38

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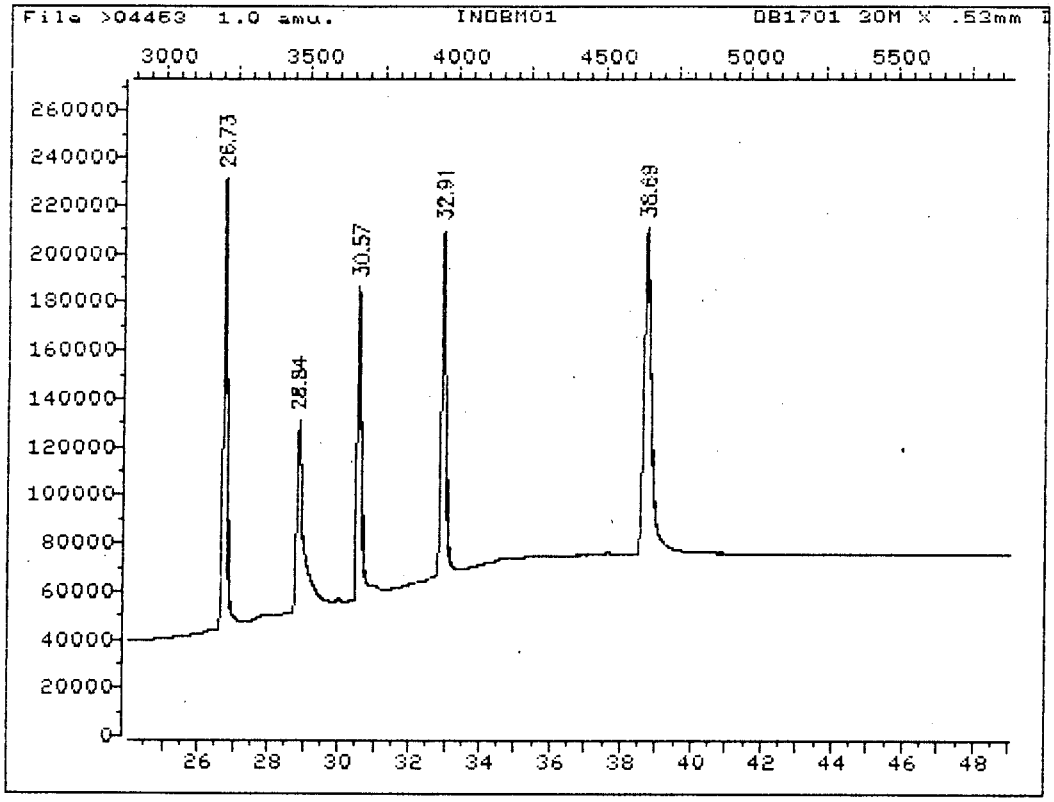

Data File: >04453::G4 Quant Output File: ^04453::GQ
Name: INDBM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:42
Injected at: 960724 02:38

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Operator ID: [illegible] Lamp Pos: [illegible] Acquired Time: [illegible] 15:41
Tissue Title: [illegible] Injected at: [illegible] 17:31
Data File: [illegible] Dilution Factor: 1.00000
Name: [illegible] Instrument ID: GC03
Miscr [illegible] 30M X .55mm [illegible]

LD File: [illegible]
Title: Capillary Column [illegible]
Last Calibration: [illegible] Last Scal Time: [illegible] 02:38

	Compound	ng Injected	R T	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.07	1088	[illegible]	17.91	ng/ml	100
19)	#Decachlorobiphenyl	0.020	41.65	4995	[illegible]	20.47	ng/ml	100
25)	#Aroclor-1016(1)	0.100	12.28	1474	[illegible]	100.00	ng/ml	100
29)	#Aroclor-1260(1)	0.100	24.38	2926	[illegible]	100.00	ng/ml	100
34)	#Aroclor-1016(2)	0.100	14.29	1715	[illegible]	99.78	ng/ml	100
55)	#Aroclor-1016(3)	0.100	16.01	1921	[illegible]	100.00	ng/ml	100
56)	#Aroclor-1016(4)	0.100	16.76	2011	[illegible]	100.00	ng/ml	100
57)	#Aroclor-1016(5)	0.100	19.00	1280	[illegible]	[illegible]	ng/ml	100
58)	#Aroclor-1260(2)	0.100	14.84	2981	[illegible]	100.00	ng/ml	100
59)	#Aroclor-1260(3)	0.100	26.55	3186	[illegible]	100.00	ng/ml	100
57)	#Aroclor-1260(4)	0.100	30.14	3617	[illegible]	99.22	ng/ml	100
59)	#Aroclor-1260(5)	0.100	32.91	3949	[illegible]	100.27	ng/ml	100

Compound uses ESTD

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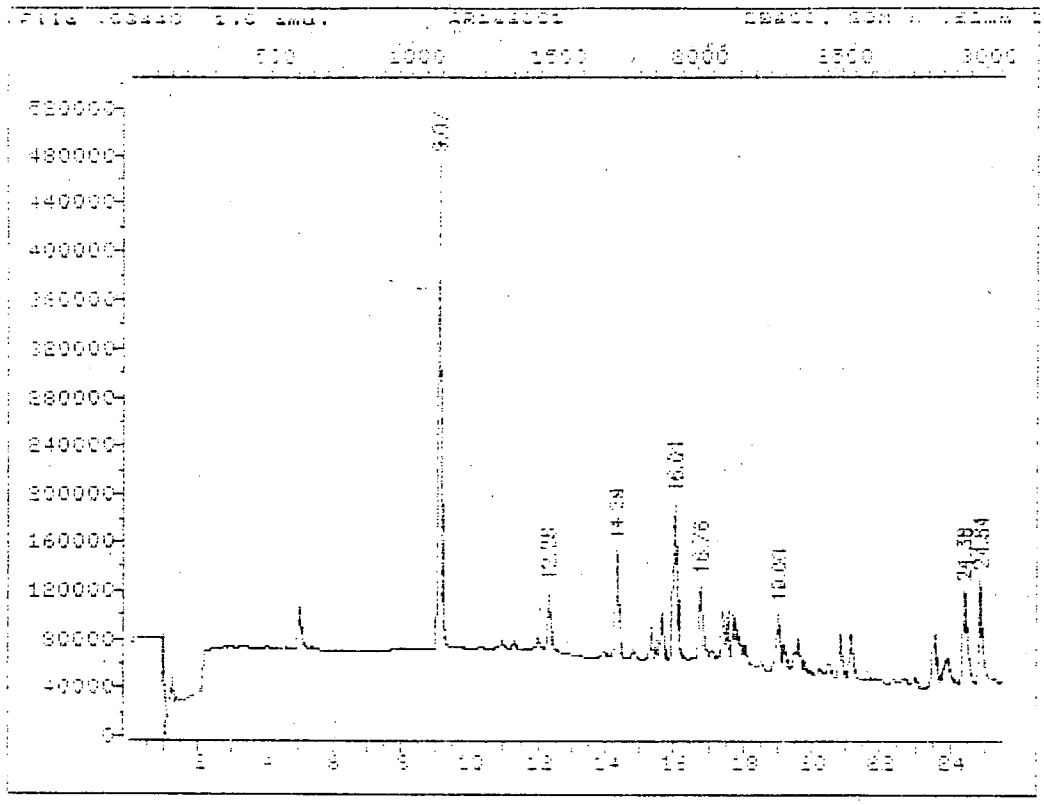
7/30/96



Data File: 03443::G2 Quant Output File: 03443::G0
Name: AR16c001 Instrument ID: GC03
Misc: DB608, 30M X .53mm [illegible] 58905, 1ul INJ

Id File: IDCAP1::GC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Goal Time: 960724 02:58

Operator ID: TRFI2
Quant Time : 960724 15:41
Injected at: 960723 17:51

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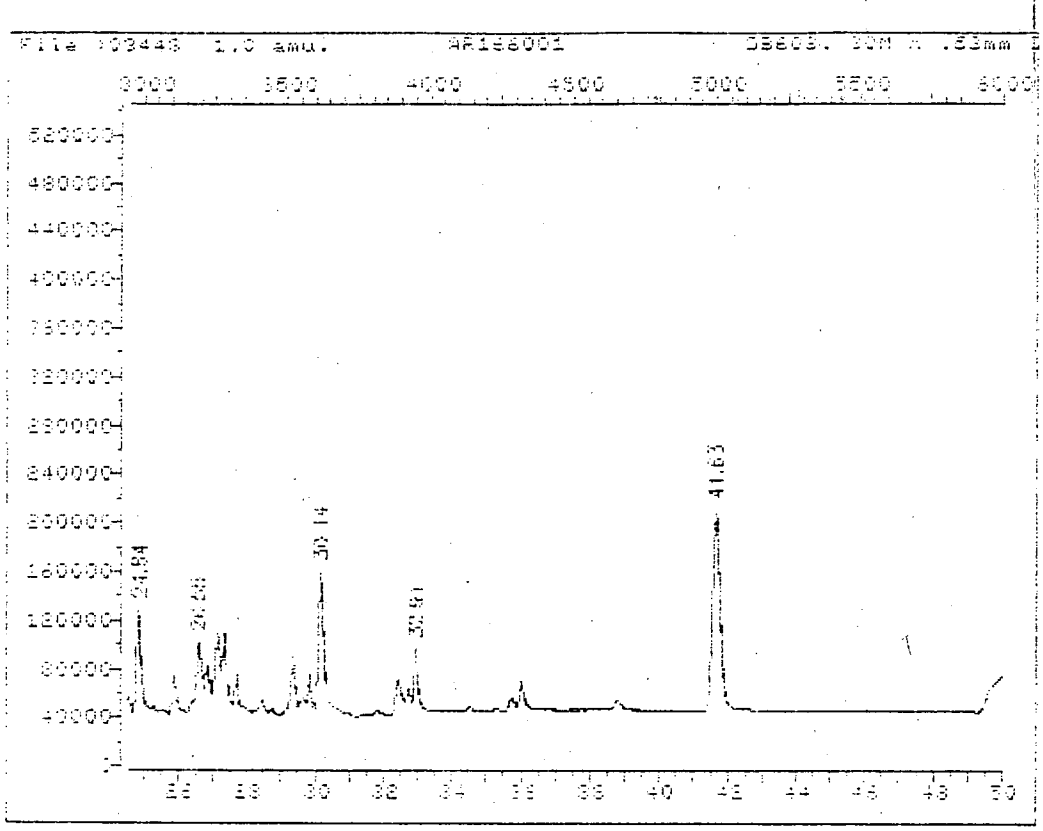

Data File: 103443.GC Quant Output File: 103443.GQ
Name: AR186001 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 5890F, 1ul INJ

Id File: IDCAP1.GC
Title: Cap Pro Column DB 608
Last Calibration: 941029 10:07 Last Cal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 17:41
Injected at: 960723 17:51

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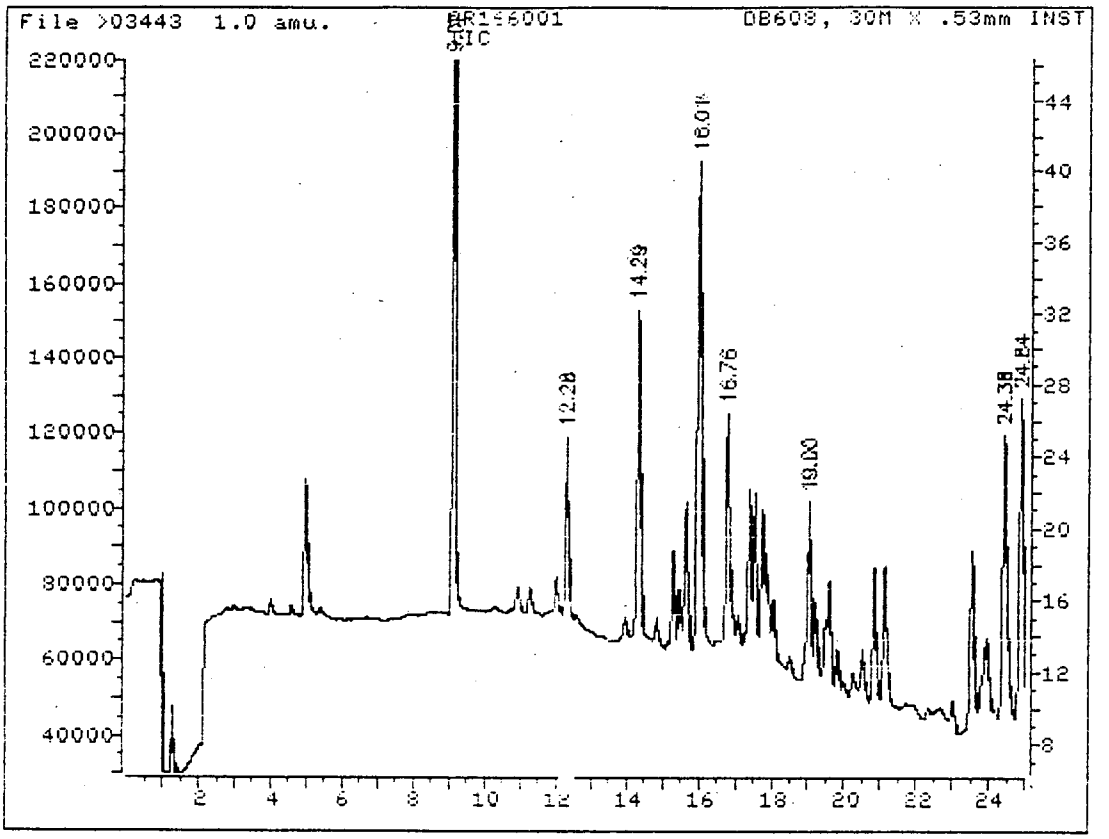
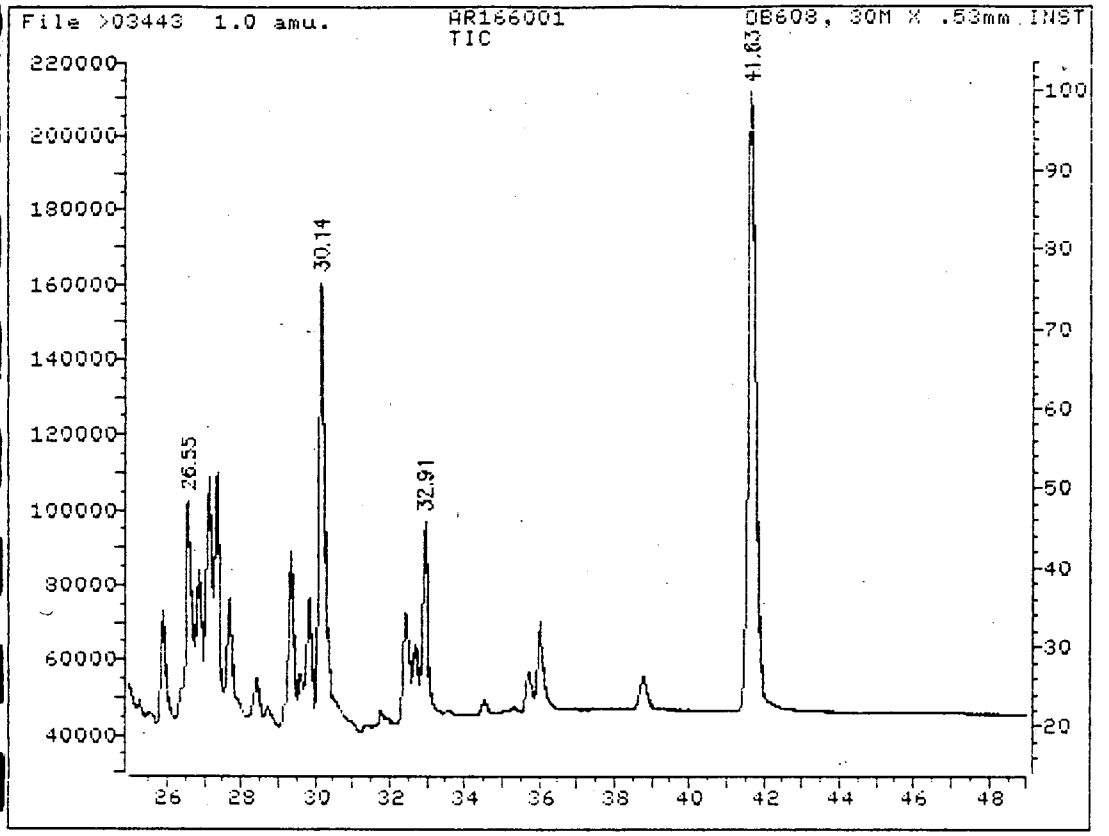


MS data file header from : >03443::G2

Sample: AR166001 Operator: TRFI2 7/23/96 17:31
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >03443::G2

Sample: AR166001 Operator: TRFI2 7/23/96 17:31
Misc : DB608, 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC03
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 14:23
Output File: >04443::63 Injected at: 960723 17:51
Data File: >04443::64 Dilution Factor: 1.00000
Name: AR1660301 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST PS903. 1ul INJ

ID File: ICCAP2::GC
Title: Capillary Column DB1701
Last Calibration: 941027 10:07 Last Cal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.30	1116	811330	18.24	ng/ml	100
19)	#Decachlorobiphenyl	0.020	38.66	4641	929381	19.77	ng/ml	100
23)	#Aroclor-1016(1)	0.100	12.07	1448	120101	100.00	ng/ml	100
29)	#Aroclor-1260(1)	0.100	23.77	2852	241761	100.00	ng/ml	100
34)	#Aroclor-1016(2)	0.100	13.83	1660	242074	100.00	ng/ml	100
35)	#Aroclor-1016(3)	0.100	15.97	1916	394133	100.00	ng/ml	100
36)	#Aroclor-1016(4)	0.100	16.52	1983	150703	101.07	ng/ml	100
37)	#Aroclor-1016(5)	0.100	18.55	2226	197850	99.31	ng/ml	100
55)	#Aroclor-1260(2)	0.100	24.89	2987	270655	99.85	ng/ml	100
56)	#Aroclor-1260(3)	0.100	28.43	3411	157739	100.00	ng/ml	100
57)	#Aroclor-1260(4)	0.100	30.05	3606	426285	100.00	ng/ml	100
58)	#Aroclor-1260(5)	0.100	32.02	3842	266743	100.00	ng/ml	100

Compound uses ISTD

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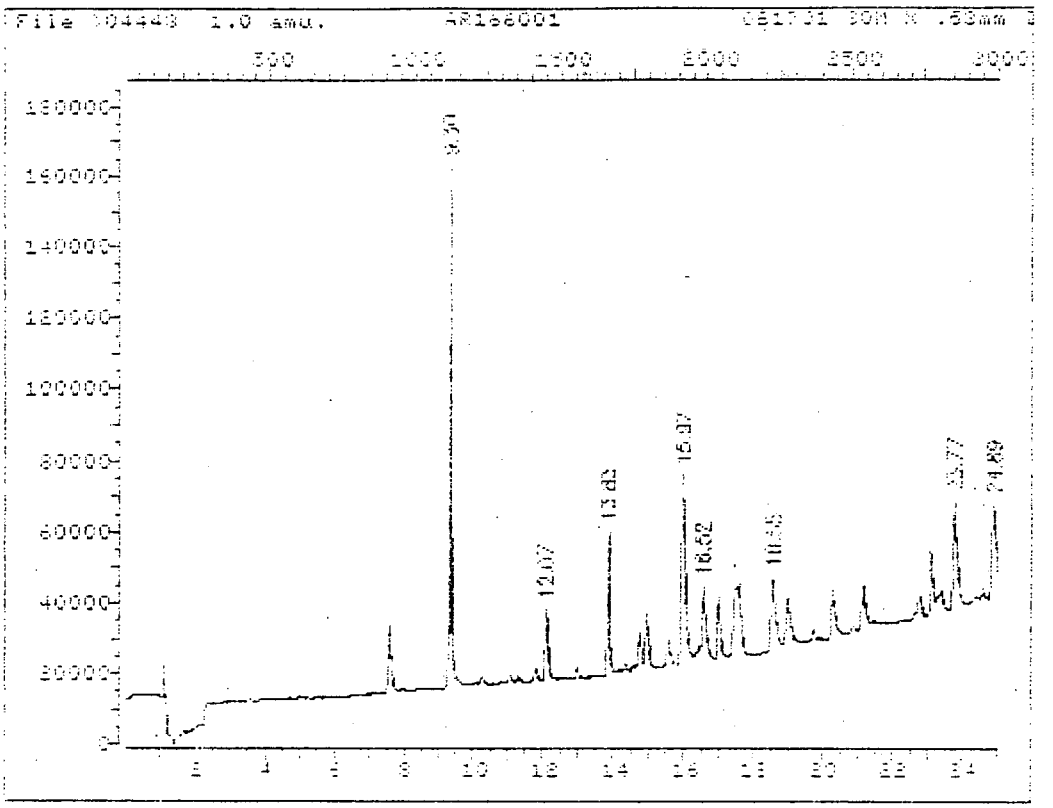
7/30/96



Data File: 004443::G4 Quant Output File: 004443::GQ
Name: AR166001 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qual Time: 960724 02:38

Operator ID: TBFI2
Quant Time: 960724 14:25
Injected at: 960724 17:30

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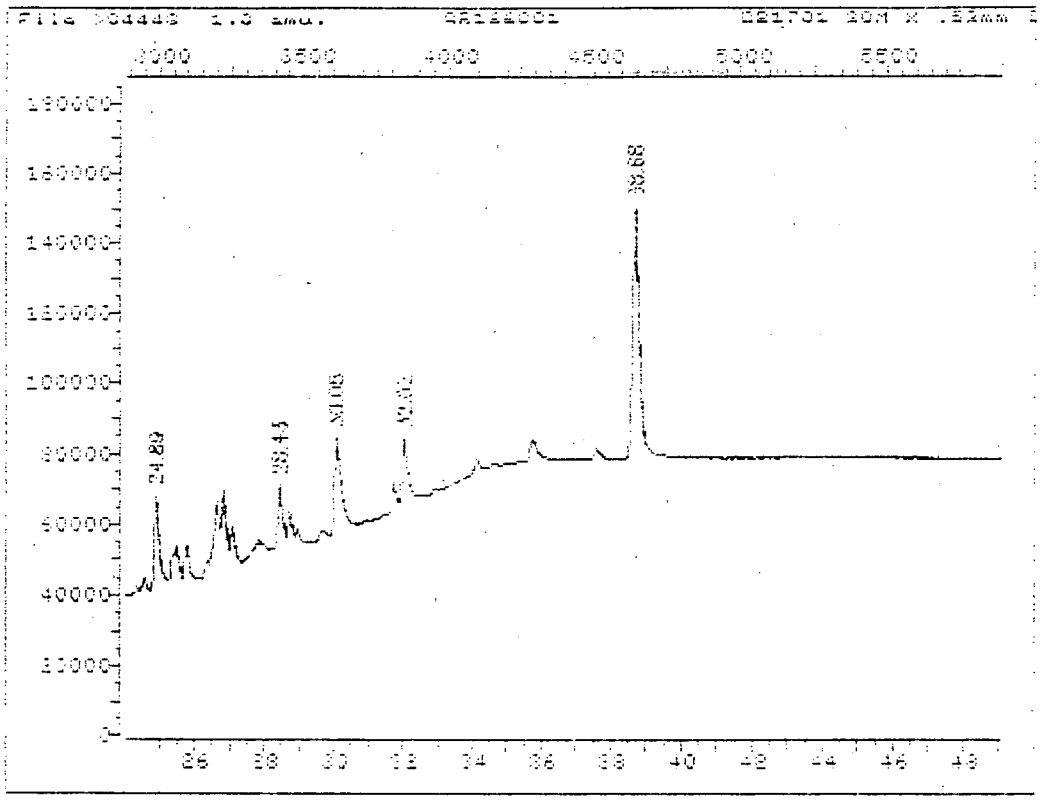

Data File: ^04443::G4 Quant Output File: ^04443::GQ
Name: AR166001 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::GC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFIZ
Quant Time : 960724 14:25
Injected at: 960723 17:31

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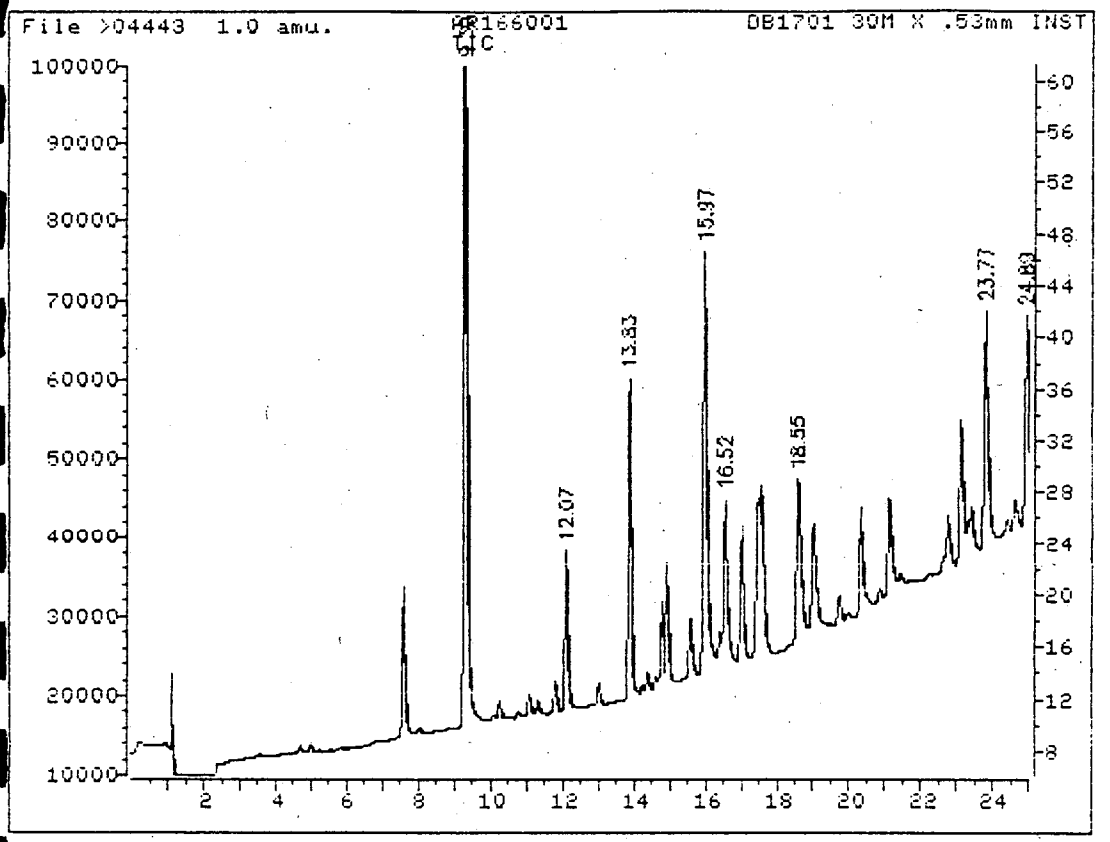
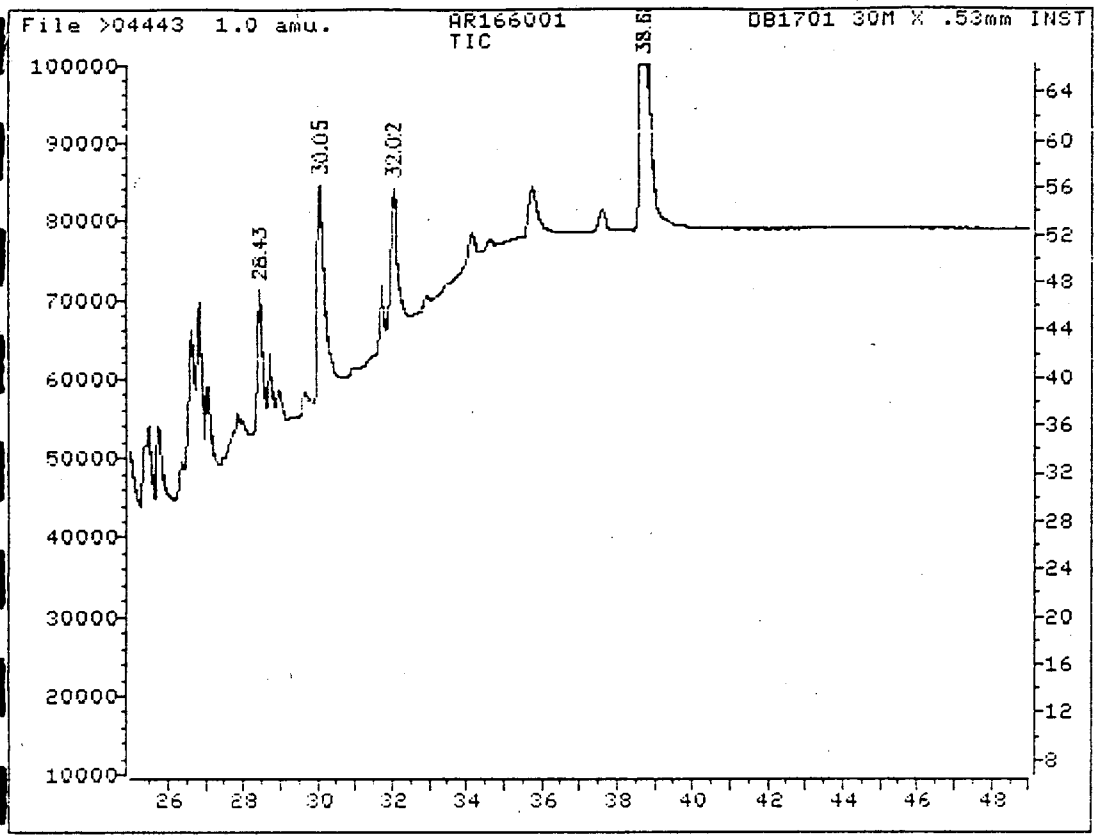


MS data file header from : >04443::G4

Sample: AR166001 Operator: TRFI2 7/23/96 17:31
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >04443::G4

Sample: AR166001 Operator: TRFI2 7/23/96 17:31
Misc : DB1701 30M X .53mm INST 58903, 1ul INJ
Sys. #: 0 MS model: 92 SW/HW rev.: F ALS # : 0 Equip ID: GC04
Method file: Tuning file: No. of extra records: 2

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

QUANT REPORT

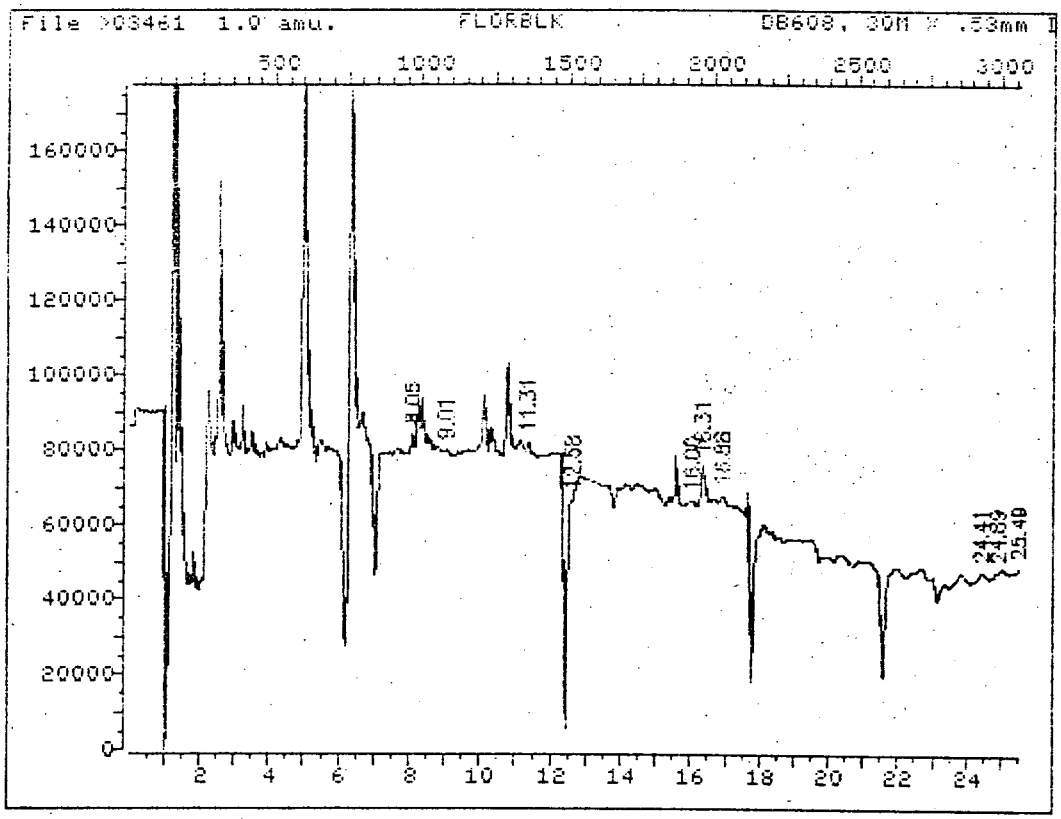
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 10:50
Output File: ^03461::G0 Injected at: 960724 09:57
Data File: >03461::G2 Dilution Factor: 1.00000
Name: FLORBLK Instrument ID: GC03
Misc: DB608. 30M X .53mm INST 58903. 1ul INJ

ID File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#~~Tetrachloro m-xylene~~ OW	9.01	1081	11224	.0938	ng/ml	100
2)	#~~alpha BHC~~ OW	12.58	1510	483441	3.24	ng/ml	100
4)	#~~delta BHC~~ OW	16.31	1957	76937	.598	ng/ml	100
6)	#~~Heptachlor~~ OW	16.00	1920	11252	.107	ng/ml	100
12)	#~~Endrin~~ OW	24.89	2987	6117	.0700	ng/ml	100
14)	#~~4,4'-DDD~~ OW	25.49	3059	25577	.414	ng/ml	100
15)	#~~Endosulfan Sulfate~~ NC	28.26	3391	158490	1.80	ng/ml	100
18)	#~~Endrin ketone~~ OW	32.84	3941	8109	.0874	ng/ml	100
24)	#~~Aroclor-1221(1)~~ ND	8.05	966	27987	32.55	ng/ml	100
27)	#~~Aroclor-1248(1)~~ ND	16.00	1920	11252	1.49	ng/ml	100
29)	#~~Aroclor-1260(1)~~ ND	24.41	2929	15027	2.35	ng/ml	100
30)	#~~Endrin aldehyde~~ OW	27.51	3301	6893	.0852	ng/ml	100
31)	#~~Toxaphene(2)~~ ND	27.51	3301	6893	4.12	ng/ml	100
32)	#~~Toxaphene(3)~~ ND	28.26	3391	158490	74.72	ng/ml	100
35)	#~~Aroclor-1016(3)~~ ND	16.00	1920	11252	1.01	ng/ml	100
36)	#~~Aroclor-1016(4)~~ ND	16.88	2026	20123	5.23	ng/ml	100
38)	#~~Aroclor-1221(2)~~ ND	11.31	1357	22895	14.09	ng/ml	100
41)	#~~Aroclor-1232(3)~~ ND	16.00	1920	11252	2.41	ng/ml	100
42)	#~~Aroclor-1232(4)~~ ND	16.88	2026	20123	11.51	ng/ml	100
44)	#~~Aroclor-1242(3)~~ ND	16.00	1920	11252	1.27	ng/ml	100
45)	#~~Aroclor-1242(4)~~ ND	16.88	2026	20123	6.08	ng/ml	100
54)	#~~Aroclor-1254(5)~~ ND	24.89	2987	6405	1.75	ng/ml	100
55)	#~~Aroclor-1260(2)~~ ND	24.89	2987	6405	.899	ng/ml	100
56)	#~~Aroclor-1260(3)~~ ND	26.39	3166	47413	10.30	ng/ml	100
58)	#~~Aroclor-1260(5)~~ ND	32.84	3941	8109	1.64	ng/ml	100

Compound uses ESTD

EPrice
7/31/96



Data File: >03461::G2 Quant Output File: ^03461::GQ
Name: FLORBLK Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960724 10:50
Injected at: 960724 09:57

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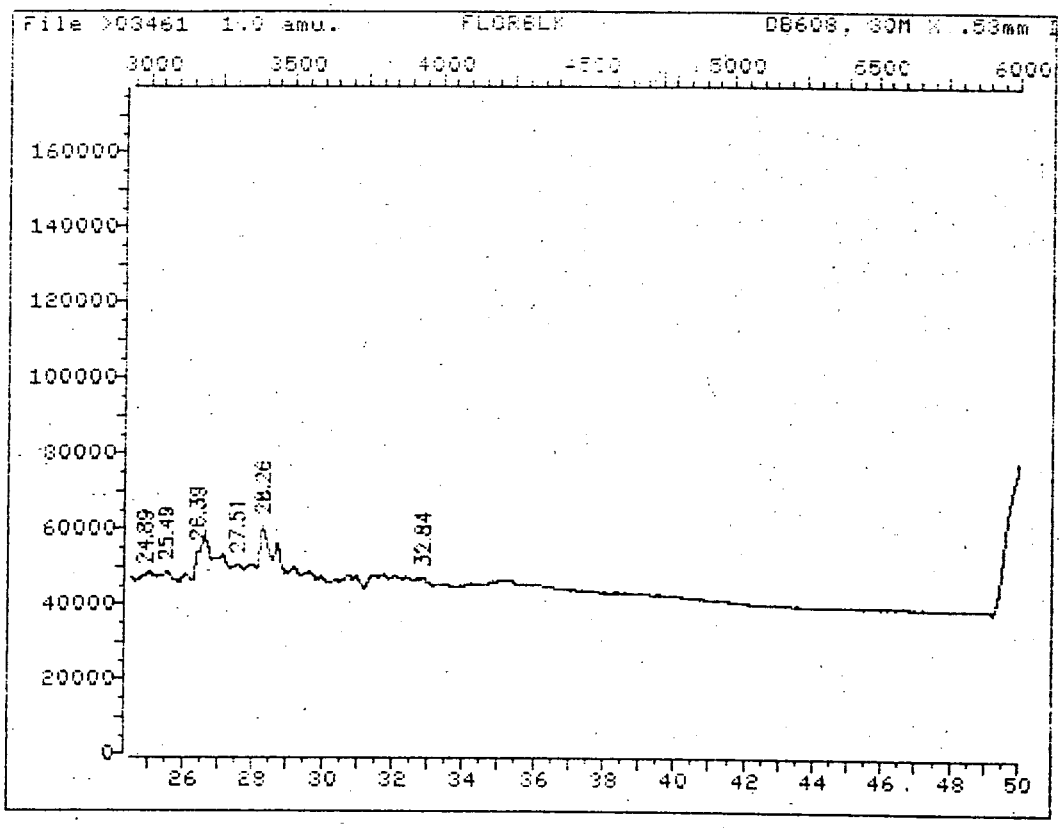

Data File: >03461::G2 Quant Output File: ^03461::GQ
Name: FLORBLK Instrument ID: GC03
Misc: DB608. 30M X .53mm INST 58903. 1ul INJ

Id File: IDCAP5::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960713 22:00

Operator ID: TRFI2
Quant Time : 960724 10:50
Injected at: 960724 09:57

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QUANT REPORT

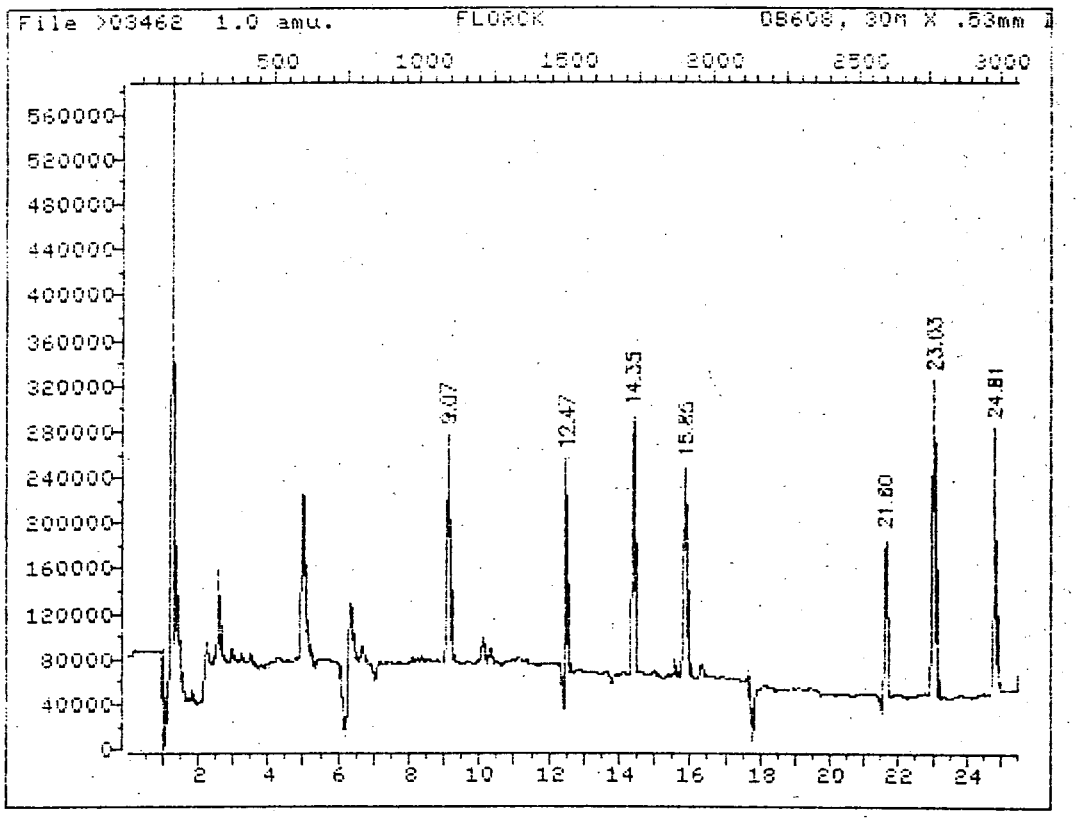
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960731 15:28
Output File: ^03462::GT Injected at: 960724 10:52
Data File: >03462::G2 Dilution Factor: 1.00000
Name: FLORCK Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	9.07	1089	1121826	8.72	ng/ml	100
2)	#alpha-BHC	12.47	1497	1339605	8.83	ng/ml	100
5)	#gamma-BHC (Lindane)	14.35	1722	1313289	9.32	ng/ml	100
6)	#Heptachlor	15.85	1902	1197637	10.34	ng/ml	100
9)	#Endosulfan I	21.60	2592	993964	9.15	ng/ml	100
10)	#Dieldrin	23.03	2763	1779544	18.16	ng/ml	100
12)	#Endrin	24.81	2977	1640862	18.42	ng/ml	100
14)	#4,4'-DDD	25.60	3072	1095852	17.94	ng/ml	100
16)	#4,4'-DDT	27.19	3262	1373258	19.97	ng/ml	100
17)	#Methoxychlor	32.43	3891	3909275	99.40	ng/ml	100
19)	#Decachlorobiphenyl	41.63	4995	2383121	20.00	ng/ml	100

Compound uses ESTD

8/13/96



Data File: >03462::G2 Quant Output File: ^03462::QT
Name: FLORCK Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960731 15:28
Injected at: 960724 10:52

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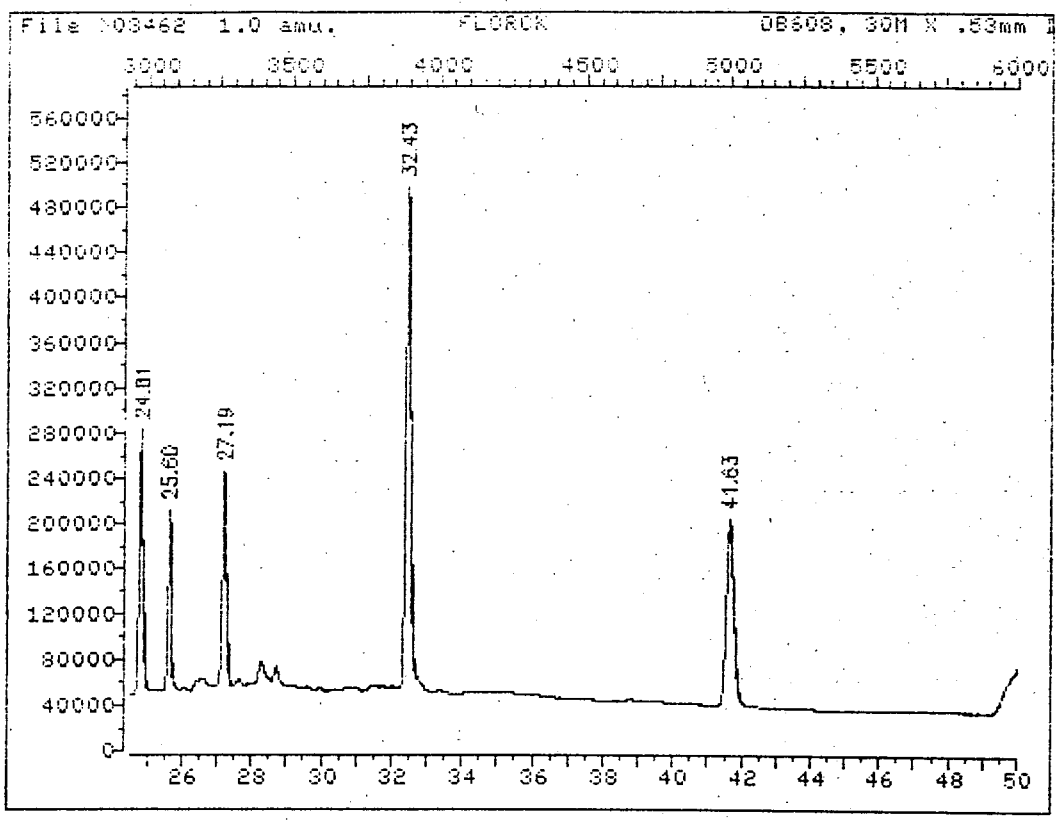

Data File: >03462::G2 Quant Output File: ^03462::QT
Name: FLORCK Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960731 15:28
Injected at: 960724 10:52

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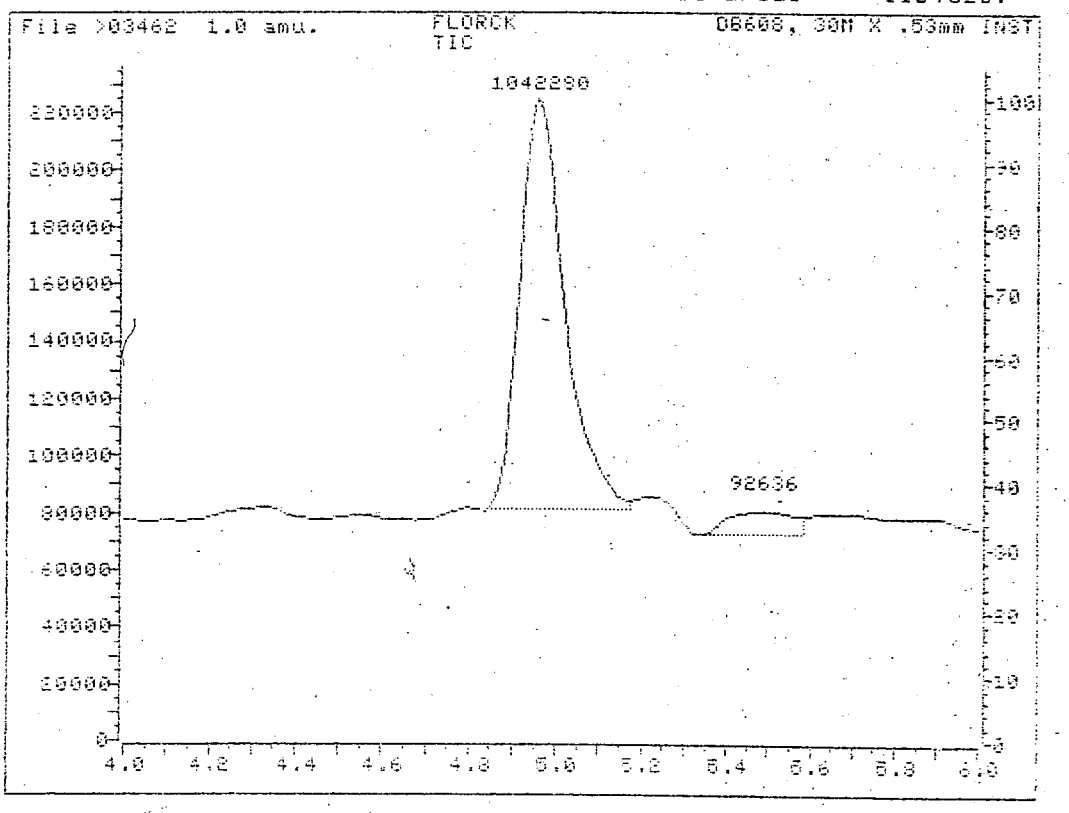
FMGR : INT

>03462 FLORCK DB608, 30M X .53mm INST 58503, 1ul INJ
1.0! 1.0 TIC
Upslope: .2000 Area Reject: 5.00 % Max Peaks: 2 Bunch: 1 Valley >100 %
Onslope: 0.0000 Results File VDIR37 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	4.96	581	595	621	144153	2660919	1042284	100.00	91.838
2	5.48	641	658	670	8176	1143596	92635	8.89	8.162

Sum of corrected areas: 1134920.



QUANT REPORT

Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 13:54
Output File: ^03452::GQ Injected at: 960724 01:44
Data File: >03452::G2 Dilution Factor: 1.00000
Name: INDAM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.07	1088	2573300	20.00	ng/ml	100
2)	#alpha-BHC	0.020	12.46	1495	3029042	19.98	ng/ml	100
5)	#gamma-BHC (Lindane)	0.020	14.35	1722	2818477	20.00	ng/ml	100
6)	#Heptachlor	0.020	15.84	1901	2316679	20.00	ng/ml	100
9)	#Endosulfan I	0.020	21.58	2590	2171852	20.00	ng/ml	100
10)	#Dieldrin	0.040	23.02	2762	3919320	40.00	ng/ml	100
12)	#Endrin	0.040	24.81	2977	3563283	40.00	ng/ml	100
14)	#4,4'-DDD	0.040	25.61	3073	2461463	40.30	ng/ml	100
16)	#4,4'-DDT	0.040	27.19	3262	2750001	40.00	ng/ml	100
17)	#Methoxychlor	0.200	32.44	3892	7864900	199.97	ng/ml	100
19)	#Decachlorobiphenyl	0.040	41.63	4996	4760312	39.96	ng/ml	100

Compound uses ESTD

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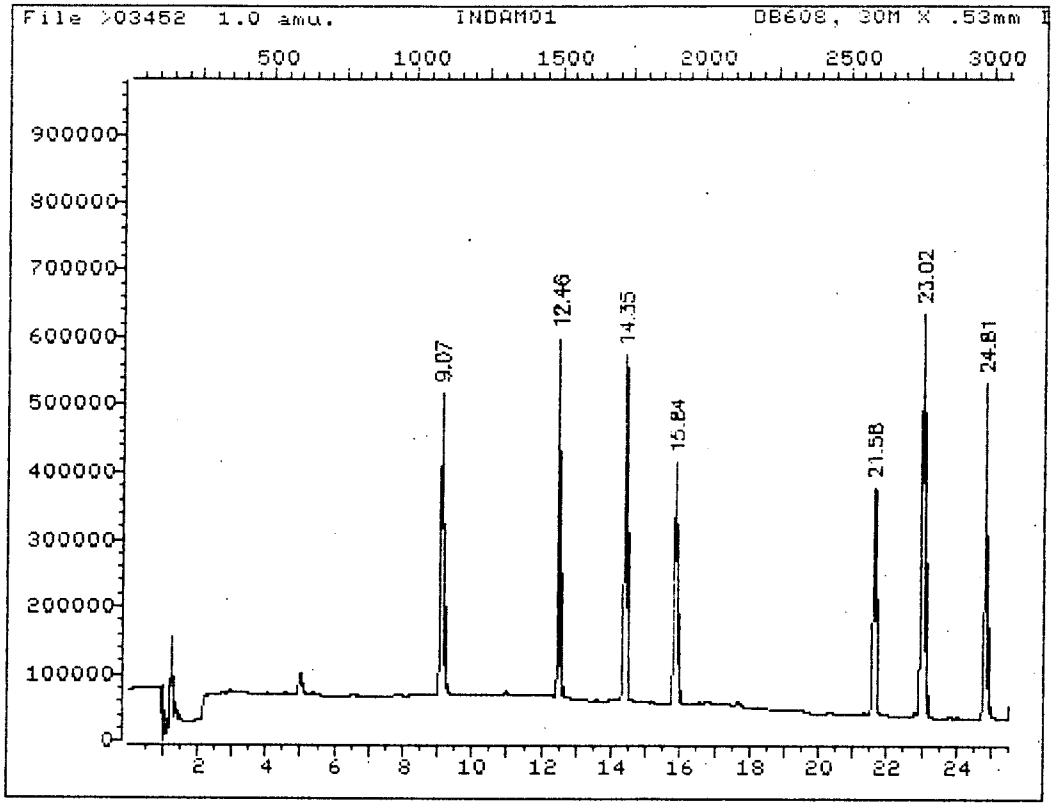
7/30/96



Data File: >03452::G2 Quant Output File: `^03452::GQ
Name: INDAM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:54
Injected at: 960724 01:44

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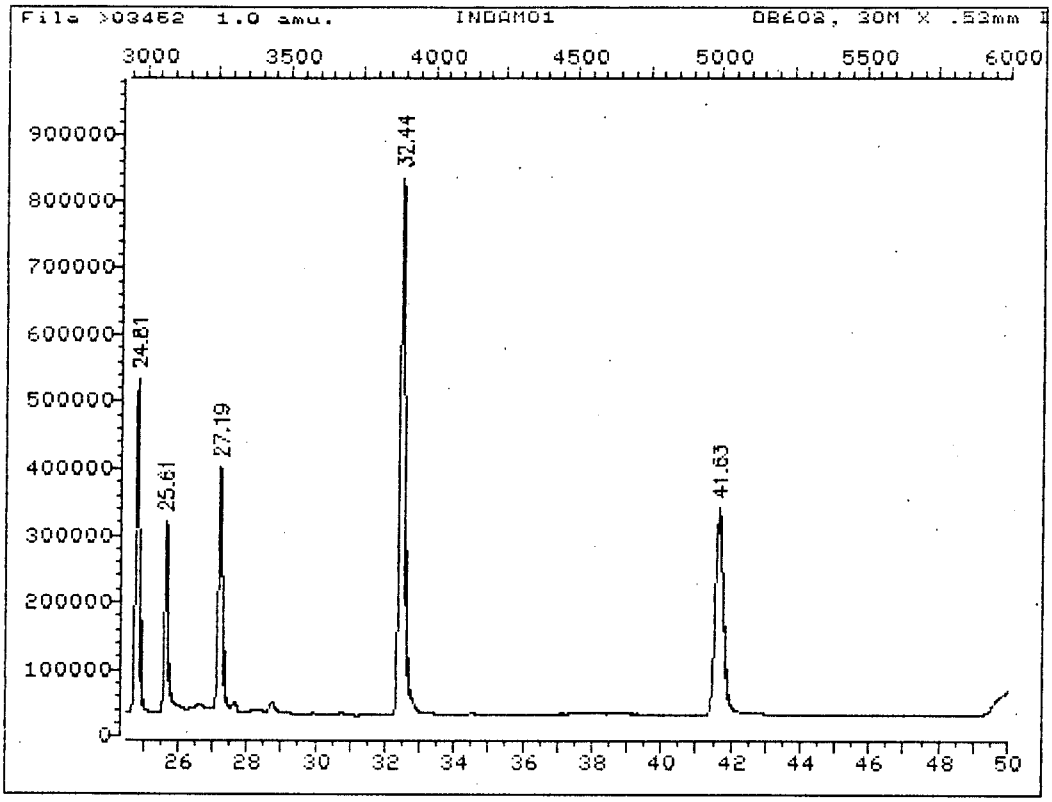

Data File: >03452::G2 Quant Output File: ^03452::GQ
Name: INDAM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:54
Injected at: 960724 01:44

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QUANT REPORT

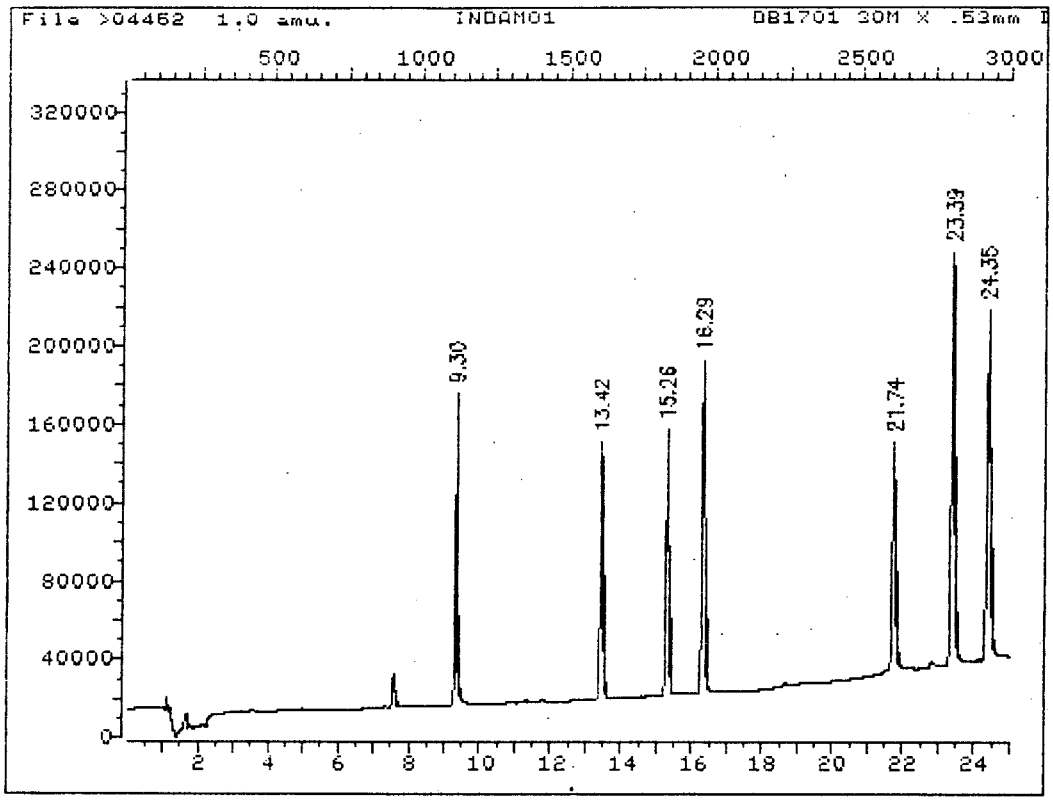
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 14:40
Output File: ^04452::GQ Injected at: 960724 01:44
Data File: >04452::G4 Dilution Factor: 1.00000
Name: INDAM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.30	1116	889810	20.00	ng/ml	100
2)	#alpha-BHC	0.020	13.42	1610	660424	20.00	ng/ml	100
5)	#gamma-BHC (Lindane)	0.020	15.26	1831	700854	20.00	ng/ml	100
6)	#Heptachlor	0.020	16.29	1955	956819	20.00	ng/ml	100
9)	#Endosulfan I	0.020	21.74	2609	709479	20.00	ng/ml	100
10)	#Dieldrin	0.040	23.39	2807	1297169	39.94	ng/ml	100
12)	#Endrin	0.040	24.35	2922	1185553	40.00	ng/ml	100
14)	#4,4'-DDD	0.040	26.52	3182	757006	40.00	ng/ml	100
16)	#4,4'-DDT	0.040	27.41	3289	678496	40.00	ng/ml	100
17)	#Methoxychlor	0.200	30.84	3700	2541982	195.84	ng/ml	100
19)	#Decachlorobiphenyl	0.040	38.68	4642	1877219	39.92	ng/ml	100

Compound uses ESTD

EPui
7/30/96



Data File: >04452::G4 Quant Output File: ^04452::GQ
Name: INDAM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:40
Injected at: 960724 01:44

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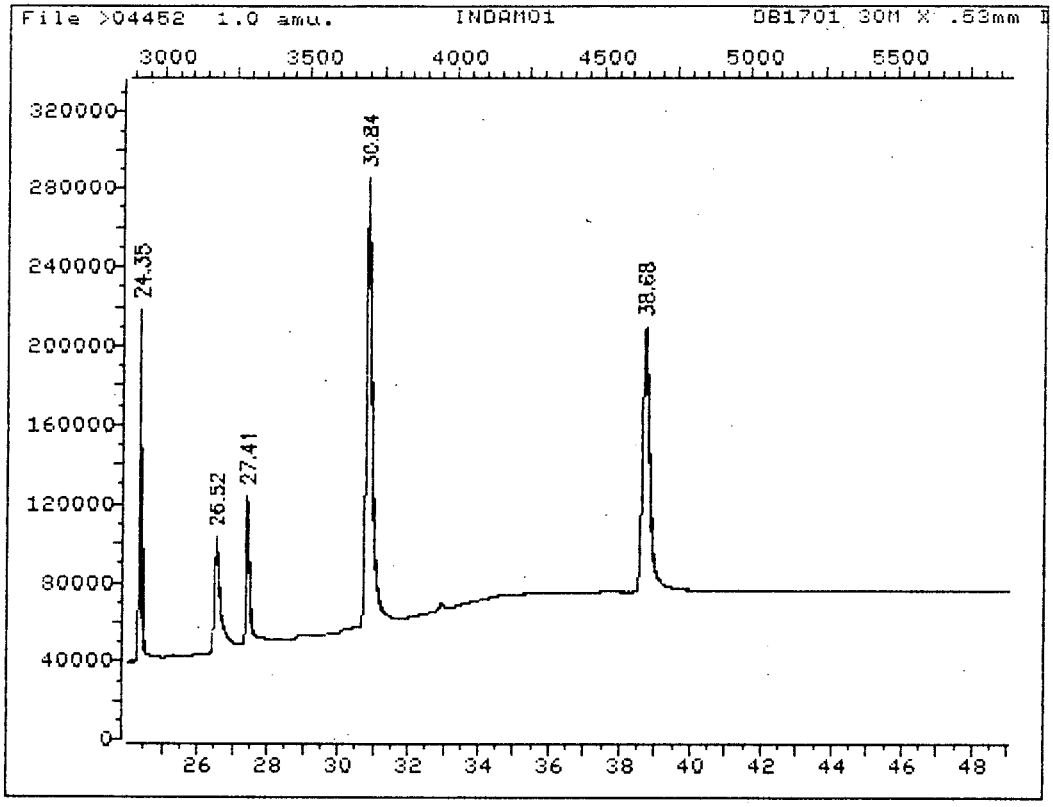

Data File: >04452::G4 Quant Output File: ^04452::GQ
Name: INDAM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:40
Injected at: 960724 01:44

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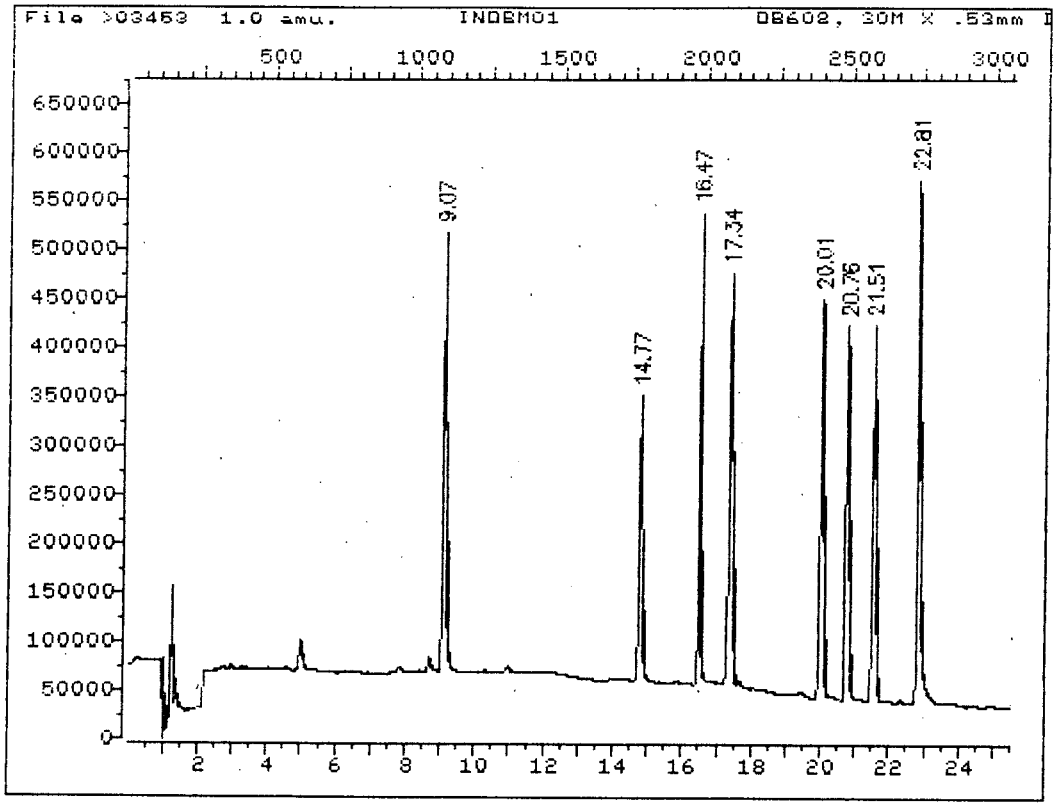
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 13:55
Output File: ^03453::GQ Injected at: 960724 02:38
Data File: >03453::G2 Dilution Factor: 1.00000
Name: INDBM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.07	1088	2549781	19.82	ng/ml	100
3)	#beta-BHC	0.020	14.77	1773	1693283	20.00	ng/ml	100
4)	#delta-BHC	0.020	16.47	1977	2619947	20.00	ng/ml	100
7)	#Aldrin	0.020	17.34	2081	2749341	20.00	ng/ml	100
8)	#Heptachlor epoxide	0.020	20.01	2401	2584323	20.00	ng/ml	100
11)	#4,4'-DDE	0.040	22.81	2737	3830019	40.00	ng/ml	100
13)	#Endosulfan II	0.040	25.79	3094	4029602	40.00	ng/ml	100
15)	#Endosulfan Sulfate	0.040	28.29	3395	3573031	40.00	ng/ml	100
18)	#Endrin ketone	0.040	32.74	3929	3777434	40.00	ng/ml	100
19)	#Decachlorobiphenyl	0.040	41.63	4996	4845287	40.67	ng/ml	100
20)	#alpha-Chlordane	0.020	21.51	2581	2478755	20.00	ng/ml	100
21)	#gamma-Chlordane	0.020	20.76	2491	2536349	20.00	ng/ml	100
30)	#Endrin aldehyde	0.040	27.59	3311	3260263	40.00	ng/ml	100

Compound uses ESTD

EPui
7/30/96



Data File: >03453::G2 Quant Output File: ^03453::GQ
Name: INDBM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:55
Injected at: 960724 02:38

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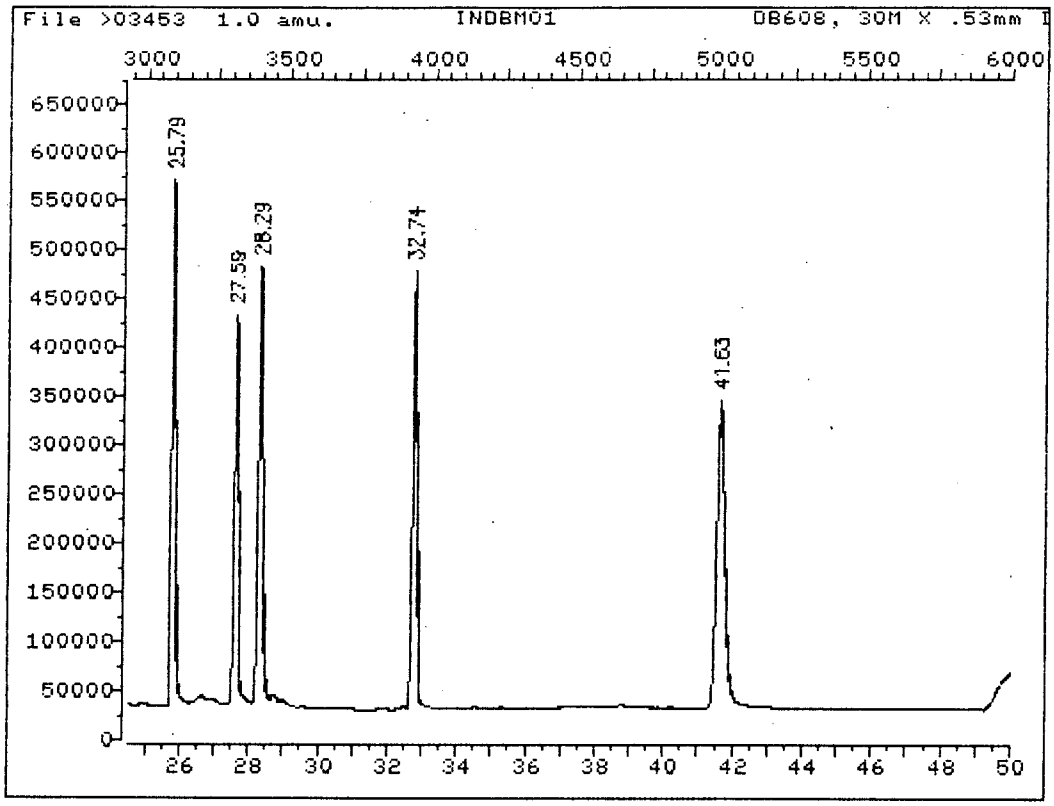

Data File: >03453::G2 Quant Output File: ^03453::GQ
Name: INDBM01 Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 13:55
Injected at: 960724 02:38

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Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 14:42
Output File: ^04453::GQ Injected at: 960724 02:38
Data File: >04453::G4 Dilution Factor: 1.00000
Name: INDBM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

	Compound	ng injected	R.T.	Scan#	Area	Conc	Units	q
1)	#Tetrachloro-m-xylene	0.020	9.30	1116	894146	20.10	ng/ml	100
3)	#beta-BHC	0.020	18.61	2233	507908	19.95	ng/ml	100
4)	#delta-BHC	0.020	19.68	2362	522035	19.98	ng/ml	100
7)	#Aldrin	0.020	17.56	2107	772305	20.00	ng/ml	100
8)	#Heptachlor epoxide	0.020	20.53	2464	888594	20.00	ng/ml	100
11)	#4,4'-DDE	0.040	22.75	2730	1127604	39.88	ng/ml	100
13)	#Endosulfan II	0.040	26.73	3207	1408483	40.00	ng/ml	100
15)	#Endosulfan Sulfate	0.040	30.57	3668	1080679	39.86	ng/ml	100
18)	#Endrin ketone	0.040	32.91	3949	1321730	40.00	ng/ml	100
19)	#Decachlorobiphenyl	0.040	38.69	4643	1913486	40.70	ng/ml	100
20)	#alpha-Chlordane	0.020	22.23	2667	855924	20.00	ng/ml	100
21)	#gamma-Chlordane	0.020	21.98	2637	818032	20.00	ng/ml	100
30)	#Endrin aldehyde	0.040	28.84	3460	1264318	39.60	ng/ml	100

Compound uses ESTD

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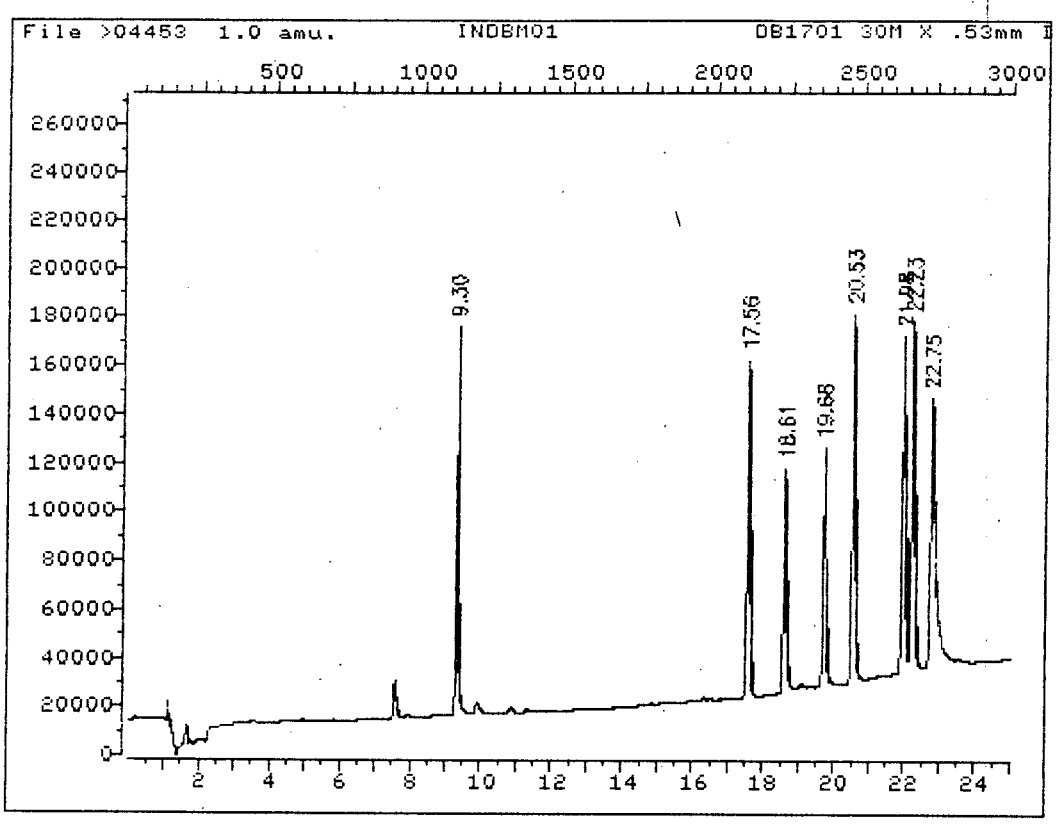
7/30/96



Data File: >04453::G4 Quant Output File: ^04453::GQ
Name: INDBM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:42
Injected at: 960724 02:38

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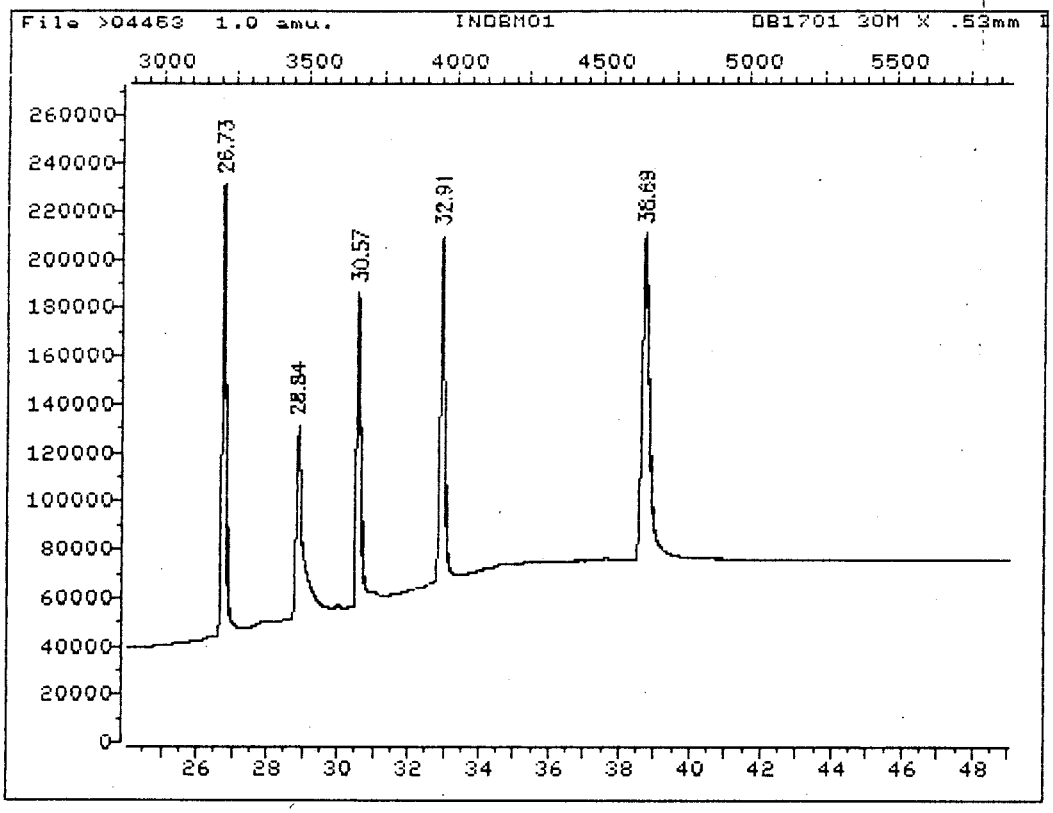

Data File: >04453::G4 Quant Output File: ^04453::GQ
Name: INDBM01 Instrument ID: GC04
Misc: DB1701 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP2::SC
Title: Capillary Column DB1701
Last Calibration: 941029 10:07 Last Qcal Time: 960724 02:38

Operator ID: TRFI2
Quant Time : 960724 14:42
Injected at: 960724 02:38

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QUANT REPORT

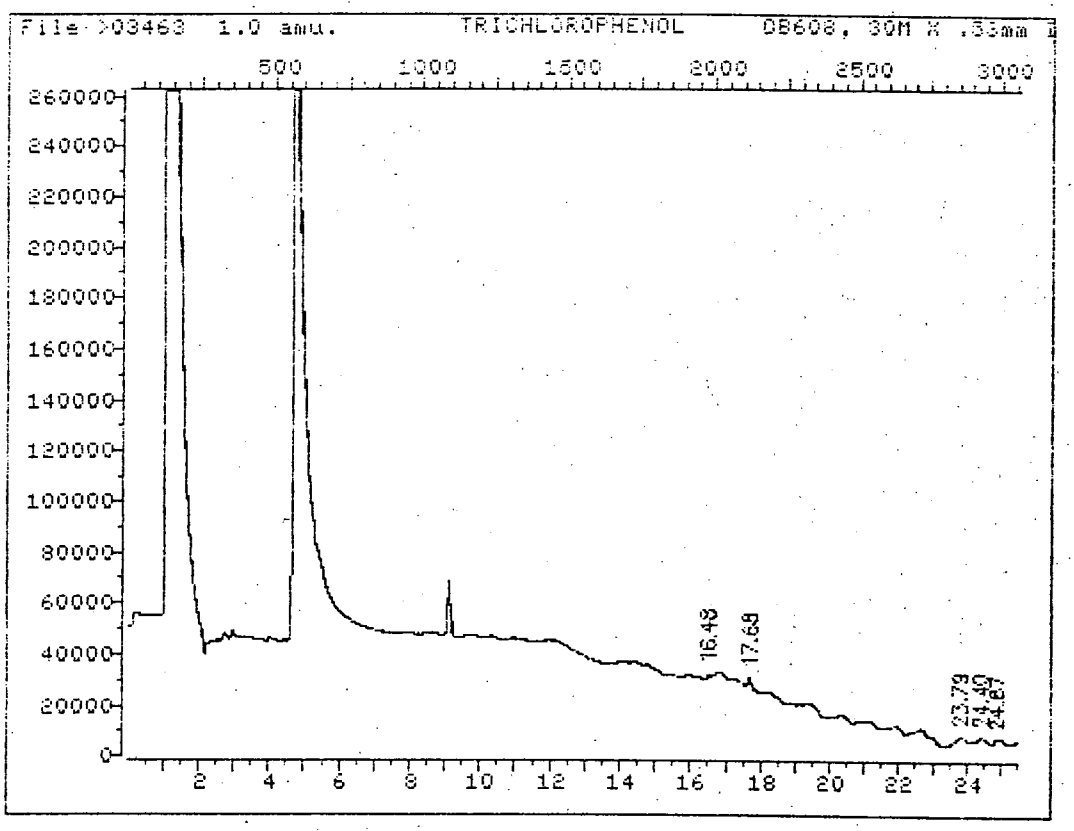
Operator ID: TRFI2 Quant Rev: 7 Quant Time: 960724 13:09
Output File: ^03463::GQ Injected at: 960724 11:47
Data File: >03463::G2 Dilution Factor: 1.00000
Name: TRICHLOROPHENOL Instrument ID: GC03
Disc: DB608, 30M X .53mm INST 58903, 1ul INJ

ID File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960723 21:11

	Compound	R.T.	Scan#	Area	Conc	Units	q
6)	#Heptachlor	16.48	1978	11522	.241	ng/ml	100
7)	#Aldrin	17.68	2121	37175	.963	ng/ml	100
12)	#Endrin	24.40	2928	39454	1.33	ng/ml	100
13)	#Endosulfan II	26.61	3193	224161	6.37	ng/ml	100
14)	#4,4'-DDD	26.61	3193	370400	19.57	ng/ml	100
18)	#Endrin ketone	32.74	3929	6623	.200	ng/ml	100
19)	#Decachlorobiphenyl	38.77	4652	27899	.593	ng/ml	100
22)	#Toxaphene(1)	23.79	2855	39102	23.84	ng/ml	100
29)	#Aroclor-1260(1)	24.40	2928	39454	6.35	ng/ml	100
30)	#Endrin aldehyde	28.74	3449	67086	2.11	ng/ml	100
32)	#Toxaphene(3)	28.34	3400	19580	9.13	ng/ml	100
47)	#Aroclor-1248(2)	17.68	2121	37175	11.91	ng/ml	100
54)	#Aroclor-1254(5)	24.87	2984	8706	2.40	ng/ml	100
55)	#Aroclor-1260(2)	24.87	2984	8706	1.25	ng/ml	100
56)	#Aroclor-1260(3)	26.61	3193	224161	32.76	ng/ml	100
58)	#Aroclor-1260(5)	32.74	3929	6623	1.24	ng/ml	100

Compound uses ESTD

JLM 9/13/96



Data File: >03463::G2 Quant Output File: ^03463::GQ
Name: TRICHLOROPHENOL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960723 21:11

Operator ID: TRFI2
Quant Time : 960724 13:09
Injected at: 960724 11:47

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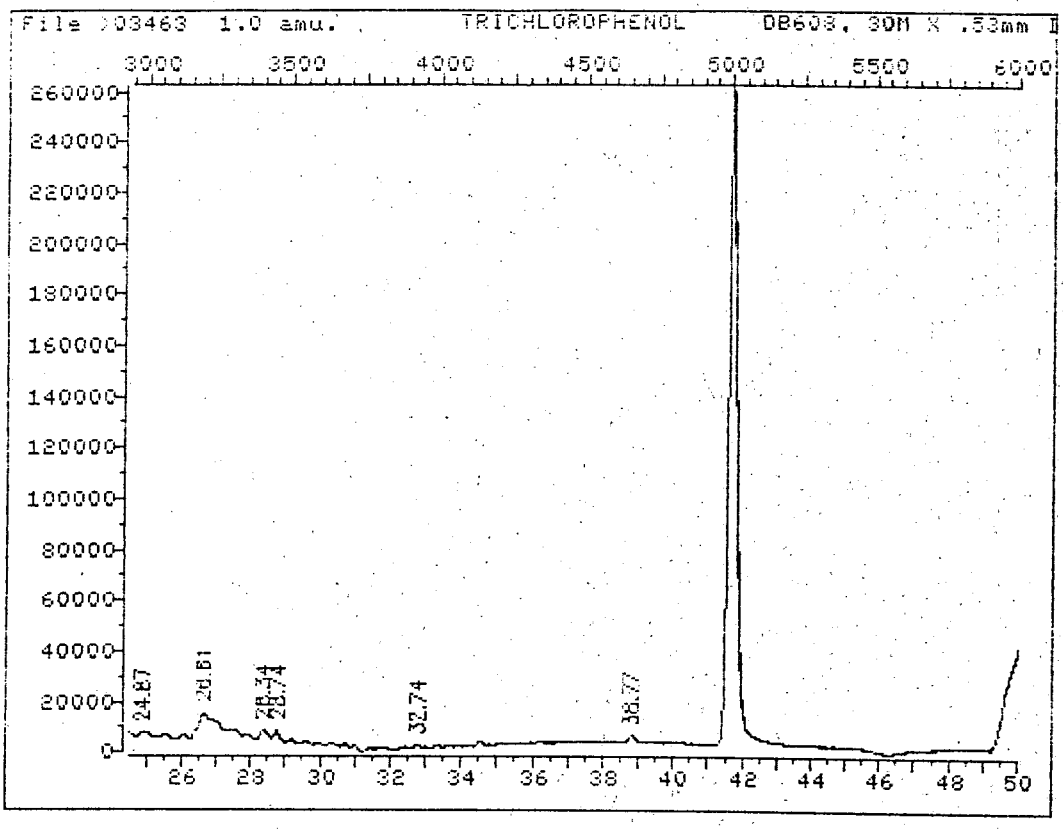

Data File: >03463::G2 Quant Output File: ^03463::GQ
Name: TRICHLOROPHENOL Instrument ID: GC03
Misc: DB608, 30M X .53mm INST 58903, 1ul INJ

Id File: IDCAP1::SC
Title: Capillary Column DB 608
Last Calibration: 941029 10:07 Last Qcal Time: 960723 21:11

Operator ID: TRFI2
Quant Time : 960724 13:09
Injected at: 960724 11:47

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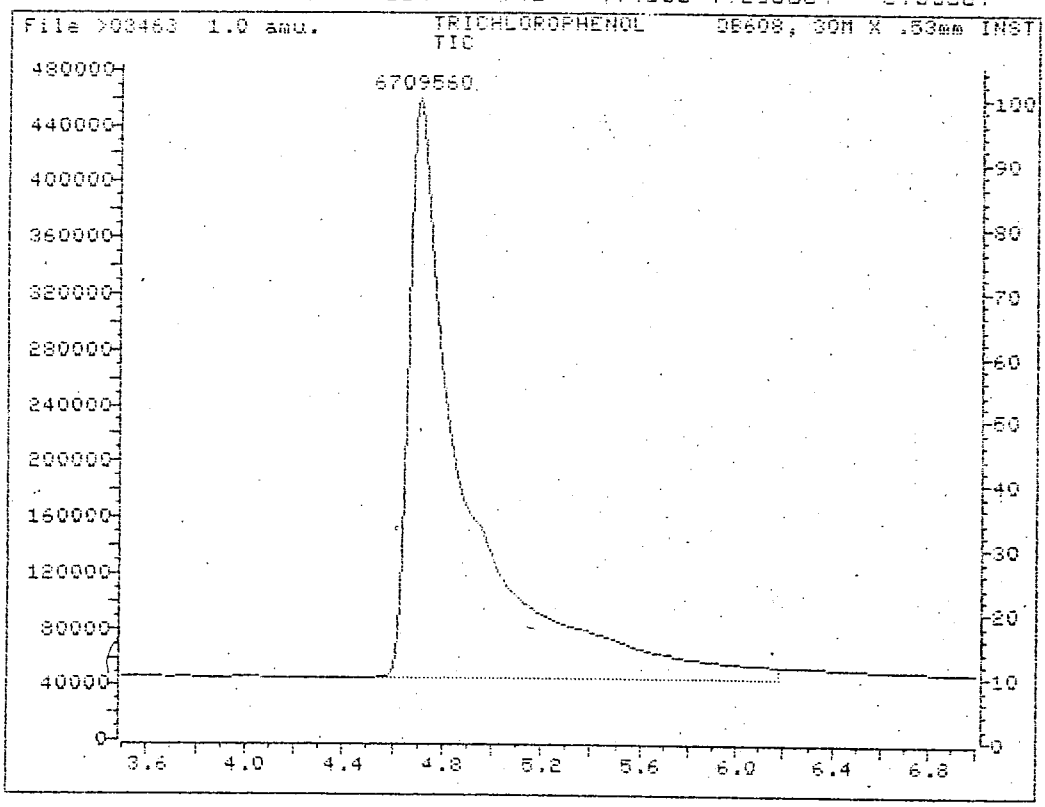
>03463::62 TRICHLOROPHENOL DB608, 30M X .53mm INST 58903, 1ul INJ
X-low: 4.50 Y-left: 45288. Y-right: 45288.
X-high: 6.18 Results File VDIR43 Sorted by Time/Area MI

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	4.70	540	564	742	414682	11283564	6709567	100.00	100.000



Industrial Corrosion Management
Sample Preparation Log

Description: PCB soil CLP

Batch #: QC6372

Sample #	Sample Wt. or Volume	Turn Around	Ml. Final	Date Ext.	Ext. Ini.	Date Conc.	Conc. Init.	% moist.	pH	Comments
QC6372 B	30.2		5ml	7/23/96	MO	7/24/96	MO			
239987 S	30.0									
239987 SD	30.1									
239987	30.1	N								
239988	30.3									
239989	30.6									
239990	30.6									
239991	30.2									
239992	30.5									
239993	30.1									
239996	30.5									
239997	30.5									
239998	30.4									
239999	30.3									
240000	30.1									
240001	30.2									
240002	30.4									
240003	30.2									
240004	30.3									
240005	30.2									
240006	30.1									

Extract Status	Initials	Date
A		
B		
D		

	Milliliters added	Concentration	Standard Lot #
SURROGATE	2.0ml	DBCB @ 0.2 / TCMX @ 0.2	1-E-96-2
SPIKE	1.0ml	LHA @ 0.5 / DEDB @ 1.0	1-E-90-3
SPIKE DUP.			

Relinquished By	Received By	Supervisor Signature	Date	Time	Reason
[signature]	[signature]	[signature]	7/27/96	11:00	GC Acquire

Matrix: Soil Water Sludge Waste Dilution Other _____
(Circle one)

Extraction Method: Seperatory Funnel Liquid/Liquid Sonication Soxhlet Other _____
(Circle one)

CLEAN UP: Acid; YES NO (circle one) Sulfer; YES NO (circle one)

LOG # _____ VTSR _____

Form filename: PREPLOG.EXT

...strial Corrosion Management
...ple Preparation Log

Description: PCB H2O CLP

Batch #: QC6373

Sample #	Sample Wt. or Volume	Turn Around	Ml. Final	Date Ext.	Ext. Ini.	Date Conc.	Conc. Init.	% moist.	pH	Comments
QC6373 B	1000 ml		10.0	7/22/96	MJ	7/23/96	MF			
239994 S	↓		↓	↓	↓	↓	↓			
239994 SD	↓		↓	↓	↓	↓	↓			
239994	↓	N	↓	↓	↓	↓	↓			

Extract Status	Initials	Date
A		
B		
D		

	Milliliters added	Concentration	Standard Lot #
SURROGATE	1.0ml	DBC@ 0.2 / TCMX@ 0.2	1-E-96-2
SPIKE	↓	LHA@ 0.5 / DEDDT@ 1.0	1-E-90-3
SPIKE DUP.	↓	↓	↓

Relinquished By	Received By	Supervisor Signature	Date	Time	Reason
[signature]	[signature]	[signature]	7/27/96	11:00	GC Acquire

...: Soil Water Sludge Waste Dilution Other _____
(Circle one)

...ction Method: Seperatory Funnel Liquid/Liquid Sonication Soxhlet Other _____
(Circle one)

...EAN UP: Acid; YES NO (circle one) Sulfer; YES NO (circle one)

...G # _____ VTSR _____

Form filename: PREPLOG.EXT

GEL PERMEATION CHROMATOGRAPHY LOG

PAGE_____

DATE 07 / 19 / 96 TIME 12 : 00 TO: DATE 07 / 26 / 96 TIME 12 : 00

ANALYST(S): [illegible] SUPERVISOR: [illegible] DATE 8 / 15 / 96

COLUMN CALIBRATION DATE 07 / 19 / 96 CHECK STD ID 1-E-94-2

PROGRAM #	1	2	3
LOAD TIME (SEC)			
DUMP TIME (MIN)			
COLLECT TIME (MIN)			
WASH TIME (MIN)			

CALIBRATION CHECK

*	LAST	NEW	%D
ml/10 min			
PSI			
CORN OIL-RT			
B-2EHP-RT			
MC-RT			
PERYL-RT			
SULFR-RT			

SAMPLE #	ml	BNA OR P/P	PORT #	PRGRM #
Blk (6372)	95	P/P	2	3
239988			3	
239989			4	
239990			5	
239991			6	
239992			7	
239993			8	
239996			9	
239997			10	
239998			11	
239999			12	
240000			13	

SAMPLE #	ml	BNA OR P/P	PORT #	PRGRM #
240001	95	P/P	14	3
240002			15	
240003			16	
240004			17	
240005			18	
240006			19	
239987			20	
Spk (6372)			21	
Dup (6372			22	

COMMENTS/REMARKS: AUTOPREP 1002B

* SEE PAGE 105 FOR CAL CHK

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SAMPLE	DATE	SOIL	H_2O	pH	Cl
239994	7/22/96		X	6.94	–
239987	7/23/96	X		7.75	–
988				7.08	–
989				7.26	–
990				6.91	–
991				5.34	–
992				6.43	–
993				5.74	–
996				8.32	–
997				6.95	–
998				7.31	–
999				7.09	–
240000				7.90	–
001				7.50	–
002				6.93	–
003				7.32	–
004				6.18	–
005				7.42	–
006				6.94	–
5342	8/1/96	X		7.45	–
5343				8.30	–
5344				8.16	–
238730	8/1/96	X		6.05	–

SAMPLE
241024
027
030
03
03
03
03
03
0
04
04
04
0
0
24184
85
85
85
86
86
24100
0
2420
0
0
0

DATE	SAMPLE	TIN	W1	W2	W3	%M	SAMPLE ~~DATE~~
7-4-96	238541	45	1.32	13.12	12.24	7.46	239992
	238540	46	1.31	13.15	12.09	8.95	239993
	238539	47	1.31	13.62	12.93	5.61	239996
	238538	48	1.32	12.43	11.18	11.25	239997
	238537	49	1.31	11.34	10.50	8.37	239998
	238536	50	1.31	11.50	10.67	8.15	239999
	238536-D	51	1.31	11.60	10.80	7.77	240000
	238535	52	1.32	11.68	11.53	1.45	240001
	238535 D	53	1.33	11.76	11.60	1.53	240002
							240003
7-5-96	BLK	1	1.30	—	1.30	0	240004
	238371	2	1.28	11.93	8.83	29.11	240005
	D-238371	3	1.28	11.93	8.80	29.39	240006
7/23/96	BLK	1	1.50	—	1.50	0	BLK
	239987	2	1.54	12.33	10.67	15.38	5342 (240042)
	239987-D	3	1.55	12.34	10.45	17.52	5342-D (240042)
	239988	4	1.60	12.85	11.52	11.82	5343 (240043)
	239989	5	1.58	11.95	10.62	12.83	5344 (240044)
	239990	6	1.55	11.70	10.40	12.81	
	239991	7	1.57	11.98	8.40	34.39	

SAMPLE ~~DATE~~	DATE ~~SAMPLE~~	TIN	W1	W2	W3	% TM
239992	7/23/96	8	1.55	11.87	10.23	15.89
239993		9	1.54	11.75	8.67	30.11
239996		10	1.54	12.03	11.14	8.48
239997		11	1.55	11.92	10.33	15.33
239998		12	1.50	11.91	11.20	6.82
239999		13	1.54	11.70	10.76	9.25
240000		14	1.55	11.75	10.27	14.51
240001		15	1.55	12.65	10.74	17.21
240002		16	1.56	12.32	7.40	45.72
240003		17	1.57	12.00	10.63	13.14
240004		18	1.60	13.00	11.00	17.54
240005		19	1.55	11.68	9.28	23.69
240006	✓	20	1.55	11.82	7.61	40.99
BLK	7/24/96	1	1.57	—	1.57	0
5342 (240042)		2	1.59	11.67	11.53	1.3[illegible]
5342-D (240042)		3	1.57	11.64	11.43	2.0[illegible]
5343 (240043)		4	1.60	11.75	11.63	1.1[illegible]
5344 (240044)		5	1.60	11.61	11.50	1.[illegible]

Industrial Corrosion Management
GC Instrument Log

Chronicle # _____

Evaluation of Retention Time Shift for: TCMX DBC Other
(Circle one)

Batch #: _____ Instrument ID: 58903

Channel A ID: DB1701 _____ Matrix: Soil Water Sludge Oil Other

Channel B ID: DB608 _____

UL INJ.__

Dates of Analyses: _____ to _____

Sequence: _____

Analyst: E Price Supervisor: [signature] GC Temperature Program: _____

For Pesticide/PCB: Surr. 1 = DBC & Surr. 2 = TCMX For others: Surr. 1 = _____ & Surr. 2 = _____

Sample No.	Date of Analysis	Time of Analysis	Channel A Surr. 1		Channel A Surr. 2		Channel B Surr. 1		Channel B Surr. 2		Comments
			RT	Min Dif	RT	Min Dif	RT	Min Dif	RT	Min Dif	
RES01	7/23/96	15:41	38.68		9.31		41.63		9.07		441
PEM01		16:36	38.68		9.31		41.63		9.07		442
AR1660-01		17:31	38.68		9.30		41.63		9.07		443
AR122101		18:26	38.68		9.30		41.63		9.07		444
AR123201		19:21	38.68		9.30		41.63		9.07		445
AR124201		20:16	38.69		9.30		41.64		9.07		446
AR124801		21:11	38.69		9.31		41.63		9.07		447
AR125401		22:06	38.69		9.30		41.63		9.07		448
TOXAPH		23:00	38.68		9.30		41.63		9.07		449
INDAL01		23:55	38.69		9.30		41.64		9.07		450
INDBL01	7/24/96	00:49	38.69		9.30		41.63		9.07		451
INDAM01		01:44	38.68		9.30		41.63		9.07		452
INDBM01		02:38	38.69		9.30		41.63		9.07		453
INDAH01		03:33	38.68		9.30		41.63		9.07		454
INDBH01		04:27	38.68		9.30		41.63		9.07		455
PIBLK01		05:22	38.70		9.31		41.64		9.07		456
PEM02		06:17	38.69		9.31		41.63		9.07		457
GPCBLK		07:12	—		—		—		—		458
GPCPEST		08:04	—		—		—		—		459
GPC PCB		09:02	—		—		—		—		460
FLOR BLK		09:57 ~~10:48~~	—		—		—		—		461

Min Dif = Minutes Difference
* Value Outside QC Limits
QC Limits = +/- 0.05 for TCMX
QC Limits = +/- 0.10 for DBC
QC Limits = +/- for

** Verification of Calibration Curve: Date Acquired: _____ to _____
*** Part of Calibration Curve Time Acquired: _____ to _____

Form filename: RTSH8905.GC

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Industrial Corrosion Management
GC Instrument Log

Chronicle # _____

Evaluation of Retention Time Shift for: TCMX DBC Other
(Circle one)

Batch #: _____ Instrument ID: 58903

Channel A ID: DB1701 _____ Matrix: Soil Water Sludge Oil Other

Channel B ID: DB608 _____

UL INJ.__

Dates of Analyses: _____ to _____

Sequence: _____

Analyst: E Pu Supervisor: [signature] GC Temperature Program: _____

For Pesticide/PCB: Surr. 1 = DBC & Surr. 2 = TCMX For others: Surr. 1 = _____ & Surr. 2 = _____

Sample No.	Date of Analysis	Time of Analysis	Channel A Surr. 1		Channel A Surr. 2		Channel B Surr. 1		Channel B Surr. 2		Comments
			RT	Min Dif	RT	Min Dif	RT	Min Dif	RT	Min Dif	
FIOR CK	7/24/96	10:52	38.68		9.31		41.63		9.07		462
Cl3 phenol		11:47	—		—		—		—		463
PBLK67		12:42	38.70		9.31		41.64		9.07		464
5333 Pet		13:37	38.70		9.31		41.64		9.07		465 use
5334 Pet		14:32	38.70		9.31		41.64		9.07		466
QA/QCP		15:27	38.69		9.31		41.64		9.07		467 608 spk
PIBLK02		16:22	38.71		9.31		41.64		9.07		468
INDAM02		17:17	38.69		9.31		41.63		9.07		469
INDBM02		18:12	38.70		9.30		41.64		9.07		470
5333P/20		19:07	38.73		9.30		41.65		9.07		471 need 10X
5333P/2		20:03	38.70		9.31		41.64		9.07		472
5334P/50		20:58	38.70		9.30		41.63		9.07		473 need 25X
5334P/5		21:53	38.69		9.30		41.63		9.07		474 need 25X
5333 PCB		[illegible]	38.68		9.30		41.63		9.07		[illegible] OK
5334 PCB		23:41	38.68		9.31		41.63		9.07		476 OK
PQCW/2	7/25/96	00:37	38.72		9.31		41.65		9.07		477
PCB QC		01:31	38.69		9.31		41.63		9.07		478
Blank S		02:26	38.73		9.31		41.66		9.07		479
PIBLK03		03:21	38.73		9.32		41.66		9.07		480
PEM03		04:15	38.73		9.32		41.66		9.07		481
5333P MS		05:10	38.73		9.32		41.66		9.07		482

Min Dif = Minutes Difference
* Value Outside QC Limits
QC Limits = +/- 0.05 for TCMX
QC Limits = +/- 0.10 for DBC
QC Limits = +/- for

** Verification of Calibration Curve: Date Acquired: _____ to _____
*** Part of Calibration Curve Time Acquired: _____ to _____

Form filename: RTSH8905.GC

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Industrial Corrosion Management
GC Instrument Log

Chronicle # _____

Evaluation of Retention Time Shift for: TCMX DBC Other
(Circle one)

Batch #: _____ Instrument ID: 58903

Channel A ID: DB1701 _____ Matrix: Soil Water Sludge Oil Other

Channel B ID: DB608 _____

UL INJ.__

Dates of Analyses: _____ to _____

Sequence: _____

Analyst: E. Prui Supervisor: [illegible] GC Temperature Program: _____

For Pesticide/PCB: Surr. 1 = DBC & Surr. 2 = TCMX For others: Surr. 1 = _____ & Surr. 2 = _____

Sample No.	Date of Analysis	Time of Analysis	Channel A Surr. 1		Channel A Surr. 2		Channel B Surr. 1		Channel B Surr. 2		Comments
			RT	Min Dif	RT	Min Dif	RT	Min Dif	RT	Min Dif	
5333mSD	7/25/94	6:06	38.73		9.32		41.66		9.07		483
PBLK68		7:00	38.68		9.32		41.63		9.07		484
PBLK68 Spk		7:56	38.69		9.31		41.64		9.07		485 ZZZ
PCBQC(S)		8:51	38.68		9.32		41.64		9.07		486 ZZZ
~~5GC Pol/2~~											~~487~~
~~5343 PCB/20~~		Not run			EP		7/25/94				~~488~~
5343 (PCB) 20		9:46	38.69		9.32		41.65		9.07		489 OK
5344P/10		10:41	38.69		9.32		41.65		9.07		488 mu.150X
5334P/2.5		11:36	38.69		9.32		41.63		9.07		489 ZPCB2
5334P/2.5		12:31	38.70		9.31		41.65		9.07		490 ZPCB2
5333P/10		13:26	38.73		9.31		41.66		9.07		491
PIBLK04		14:21	38.72		9.31		41.65		9.07		492
PIDA2M03		15:16	38.70		9.31		41.64		9.07		493
PIDR2M03		16:11	38.71		9.31		41.65		9.07		494
BLK68SP		17:06	38.68		9.31		41.63		9.07		495
5343PCB/2		18:02	38.65		9.31		41.61		9.07		496
5343A/20		18:56	38.67		9.31		41.62		9.07		497
5344P/5		19:51	38.69		9.30		41.63		9.07		498
5344P/5		20:46	38.66		9.30		41.61		9.07		499
5344AP/50		21:41	38.69		9.30		41.63		9.06		500
5344PMS/5		22:36	38.66		9.30		41.61		9.07		501

Min Dif = Minutes Difference
* Value Outside QC Limits
QC Limits = +/- 0.05 for TCMX
QC Limits = +/- 0.10 for DBC
QC Limits = +/- for

** Verification of Calibration Curve: Date Acquired: _____ to _____
*** Part of Calibration Curve Time Acquired: _____ to _____

Form filename: RTSH8905.GC

Industrial Corrosion Management
Instrument Log

Chronicle # _____

Evaluation of Retention Time Shift for: TCMX DBC Other
(Circle one)

Instrument ID: 58903

Batch #: _____

Matrix: Soil Water Sludge Oil Other

Channel A ID: DB1701

Channel B ID: DB608

UL INJ.__

Dates of Analyses: _____ to _____

Sequence: _____

Analyst: E Price

Supervisor: [signature]

GC Temperature Program: _____

For Pesticide/PCB: Surr. 1 = DBC & Surr. 2 = TCMX

For others: Surr. 1 = _____ & Surr. 2 = _____

Sample No.	Date of Analysis	Time of Analysis	Channel A Surr. 1		Channel A Surr. 2		Channel B Surr. 1		Channel B Surr. 2		Comments
			RT	Min Dif	RT	Min Dif	RT	Min Dif	RT	Min Dif	
5344PMS0/5	7/25/96	23:31	38.66		9.31		41.61		9.07		502
5334P/25	7/26/96	00:26	38.71		9.31		41.63		9.07		503
PIBLK05		01:21	38.71		9.31		41.63		9.07		504
PEM04		02:15	38.71		9.31		41.64		9.07		505
5334P/2.5		03:10	38.71		9.31		41.64		9.07		506
SPstQC/2		04:05	38.68		9.31		41.63		9.07		507
AR122102		04:59	38.73		9.31		41.65		9.07		508
AR166002		05:54	38.73		9.31		41.66		9.07		509
5333P/10RI		06:50	38.71		9.32		41.65		9.07		510 ZZZ
5334P/25RI		07:45	38.72		9.32		41.65		9.07		511 ZZZ
5333RI		08:40	38.70		9.32		41.64		9.07		512
5334RI		09:35	38.69		9.32		41.63		9.07		513
PIBLK06		10:30	38.73		9.32		41.67		9.07		514
INDAM04		11:25	38.71		9.32		41.64		9.07		515
INDBM04		12:21	38.72		9.31		41.64		9.07		516
PEM05		13:16	38.72		9.31		41.65		9.07		517

Min Dif = Minutes Difference
* Value Outside QC Limits
QC Limits = +/- 0.05 for TCMX
QC Limits = +/- 0.10 for DBC
QC Limits = +/- for

** Verification of Calibration Curve: Date Acquired: _____ to _____
*** Part of Calibration Curve Time Acquired: _____ to _____

Form filename: RTSH8905.GC

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Industrial Corrosion Management
GC Instrument Log

Chronicle # _____

Evaluation of Retention Time Shift for: TCMX DBC Other
(Circle one)

Batch #: _____ Instrument ID: 58903

Channel A ID: DB1701 _____ Matrix: Soil Water Sludge Oil Other

Channel B ID: DB608 _____

UL INJ.__

Dates of Analyses: _____ to _____

Sequence: _____

Analyst: _____ Supervisor: MM GC Temperature Program: _____

For Pesticide/PCB: Surr. 1 = DBC & Surr. 2 = TCMX For others: Surr. 1 = _____ & Surr. 2 = _____

Sample No.	Date of Analysis	Time of Analysis	Channel A Surr. 1		Channel A Surr. 2		Channel B Surr. 1		Channel B Surr. 2		Comments	
			RT	Min Dif	RT	Min Dif	RT	Min Dif	RT	Min Dif		
PIBLK07	7/27/96	11:45	38.68		9.32		41.63		9.06		519	
PEM06		13:00	38.70		9.32		41.63		9.06		520	
PBLK73		13:55	38.69		9.31		41.63		9.07		521	*
239994		14:50	38.69		9.31		41.63		9.07		522 clean	*
239994MS		15:44	38.69		9.31		41.63		9.07		523	*
239994MSD		16:39	38.68		9.31		41.61		9.07		524	*
PBLK72		17:34	38.68		9.31		41.61		9.07		525	*
239987/500		18:29	D		D		D		9.06?		526 OK	*
239988/100	Z	19:23	38.66		9.30		D		9.06		527 med 100	
239989/50	Z	20:18	38.66		9.30		41.62		9.07		528 med 500	
239990/10		21:13	38.68		9.31		41.63		9.07		529 med 10	*
239991/10	Z	22:07	38.68		9.31		41.63		9.07		530 med 1X	
PIBLK08		23:02	38.72		9.31		41.64		9.07		531	
INDA05		23:56	38.69		9.31		41.63		9.07		532	
INDB05	7/28/96	00:51	38.70		9.31		41.64		9.07		533	
239992/10	Z	01:45	38.67		9.31		41.63		9.07		534 med 1X	
239993/50	Z	02:40	38.66		9.31		D		9.07		535 med 1X	
239996/50		03:35	38.65		9.31		41.58		9.07		536 med 500	*
239997/50		04:29	38.66		9.35		41.59		9.06		537 OK	*
239998/50		05:24	38.66		9.31		41.59		9.07		538 med 500	*
239999/50		06:18	38.66		9.31		41.61		9.07		539 OK	*

Min Dif = Minutes Difference
* Value Outside QC Limits
QC Limits = +/- 0.05 for TCMX
QC Limits = +/- 0.10 for DBC
QC Limits = +/- for

** Verification of Calibration Curve: Date Acquired: _____ to _____
*** Part of Calibration Curve Time Acquired: _____ to _____

Form filename: RTSH8905.GC

Industrial Corrosion Management
GC Instrument Log

Chronicle # _____

Evaluation of Retention Time Shift for: TCMX DBC Other
(Circle one)

Batch #: _____ Instrument ID: 58903

Channel A ID: DB1701 _____ Matrix: Soil Water Sludge Oil Other

Channel B ID: DB608 _____

UL INJ.__

Dates of Analyses: _____ to _____

Sequence: _____

Analyst: _____ Supervisor: [signature] GC Temperature Program: _____

For Pesticide/PCB: Surr. 1 = DBC & Surr. 2 = TCMX For others: Surr. 1 = _____ & Surr. 2 = _____

Sample No.	Date of Analysis	Time of Analysis	Channel A Surr. 1		Channel A Surr. 2		Channel B Surr. 1		Channel B Surr. 2		Comments	
			RT	Min Dif	RT	Min Dif	RT	Min Dif	RT	Min Dif		
240000/500	7/28/96	07:13	38.67		9.31		41.62		9.06		540 need 5000X	*
240001/50	7	08:08	38.66		9.30		41.62		9.05		541 need 5,000X	
PIBLK09		09:03	38.73		9.31		41.65		9.07		542	
PEM08		09:58	38.73		9.32		41.66		9.07		543	
240002/10		10:53	38.68		9.32		41.63		9.06		544 OK	*
240003/50		11:48	38.67		9.32		41.62		9.06		545 OK	*
240004/50		12:43	38.67		9.31		41.62		9.08		546 OK	*
240005/50		13:38	38.64		9.31		41.60		9.07		547 mul 500	*
240006/50	7	14:33	D		9.31		D		9.07		548 mul 10,000	
PIBLK10		15:28	38.71		9.31		41.63		9.07		549	
INDAM06		16:24	38.68		9.31		41.62		9.06		550	
INDBM06		17:19	38.68		9.30		41.62		9.06		551	
PIBLK11	7/29/96	17:02	38.70		9.32		41.64		9.07		558	
PEM08		17:57	38.73		9.32		41.66		9.07		559	
AR125402		18:51	38.74		9.32		41.66		9.07		560	
239988/300		19:46	38.68		D		41.63		9.07		561 OK	*
239989/500		[illegible]	D		D		[illegible]		[illegible]		562 OK	*
239990/100		21:35	38.72		9.32		41.66		9.07		563 OK	*
239991		22:30									564 OK	*
239992		23:25	38.65		9.31		41.61		9.07		565 OK	*

Min Dif = Minutes Difference
* Value Outside QC Limits
QC Limits = +/- 0.05 for TCMX
QC Limits = +/- 0.10 for DBC
QC Limits = +/- for

** Verification of Calibration Curve: Date Acquired: _____ to _____
*** Part of Calibration Curve Time Acquired: _____ to _____

Form filename: RTSH8905.GC

Industrial Corrosion Management
GC Instrument Log

Chronicle # _____

Evaluation of Retention Time Shift for: TCMX DBC Other
(Circle one)

Batch #: _____ Instrument ID: 58903

Channel A ID: DB1701 _____ Matrix: Soil Water Sludge Oil Other

Channel B ID: DB608 _____

Dates of Analyses: _____ to _____ UL INJ.__

Sequence: _____

Analyst: _____ Supervisor: MMW GC Temperature Program: _____

For Pesticide/PCB: Surr. 1 = DBC & Surr. 2 = TCMX For others: Surr. 1 = _____ & Surr. 2 = _____

Sample No.	Date of Analysis	Time of Analysis	Channel A Surr. 1		Channel A Surr. 2		Channel B Surr. 1		Channel B Surr. 2		Comments
			RT	Min Dif	RT	Min Dif	RT	Min Dif	RT	Min Dif	
239993	7/30/96	00:20	38.67		9.31		41.61		9.07		566 OK *
239996/500		~~00:38~~ 00:15	D		D		D		9.07		567 OK *
239998/500		02:10	D		D		D		9.06		568 OK *
239000/5,000		03:05	D		D		D		D		569 OK *
PIBLK 12		03:59	38.71		9.31		41.65		9.07		570
INDAM07		04:54	38.71		9.31		41.64		9.07		571
INDBM07		05:49	38.72		9.32		41.65		9.07		572
240001/5000		06:44	D		D		D		D		573 OK *
240005/500		07:39	38.69?		D		41.63?		9.07		574 OK *
240006/10,000		08:34	D		D		D		D		575 Med 100,000 *
239988/30	Z	11:12	D		9.32		D		9.06		576 *
239989/50	Z	12:56	38.68		9.32		41.62		9.06		577 *
240006/100,000		13:51	D		D		D		D		578 OK *
PIBLK 13		14:46	38.72		9.31		41.65		9.07		579
PIBLK 14		15:41	38.72		9.31		41.65		9.07		~~5084~~ 580
PEM90		16:36	38.71		9.31		41.64		9.07		581

Min Dif = Minutes Difference
* Value Outside QC Limits
QC Limits = +/- 0.05 for TCMX
QC Limits = +/- 0.10 for DBC
QC Limits = +/- for

** Verification of Calibration Curve: Date Acquired: _____ to _____
*** Part of Calibration Curve Time Acquired: _____ to _____

Form filename: RTSH8905.GC

Industrial Corrosion Management
GC Instrument Log

Chronicle # _____

Evaluation of Retention Time Shift for: TCMX DBC Other
(Circle one)

Batch #: _____ Instrument ID: 58903

Channel A ID: DB1701 _____ Matrix: Soil Water Sludge Oil Other

Channel B ID: DB608 _____

Dates of Analyses: _____ to _____ UL INJ.__

Sequence: _____

Analyst: _____ Supervisor: MMo GC Temperature Program: _____

For Pesticide/PCB: Surr. 1 = DBC & Surr. 2 = TCMX For others: Surr. 1 = _____ & Surr. 2 = _____

Sample No.	Date of Analysis	Time of Analysis	Channel A Surr. 1		Channel A Surr. 2		Channel B Surr. 1		Channel B Surr. 2		Comments
			RT	Min Dif	RT	Min Dif	RT	Min Dif	RT	Min Dif	
PIBLK15	7/31/96	10:52	38.73		9.32		41.66		9.07		5846
PEM 10		11:47									5887
240001/500		12:42	D		D		41.63		9.06		5888
~~240006/10~~											
240002		13:37	38.65		9.31		41.61		9.06		5889
240003/5		14:32	38.64		9.32		41.60		9.06		5890
240 004/5		15:27	38.65		9.30		41.61		9.07		5891
2439 997/5		16:22	38.64		9.32		41.60		9.05		5902
2439 999/5		17:17	38.63		9.30		41.58		9.07		5913
2439 988/30		18:12	38.65		9.30		41.65		9.06		5924
2439 987/50		19:07	38.63		9.30		41.63		9.06		5935
2439 989/50		20:02	D		9.30		D		9.07		5946
PIBLK16		20:57	38.68		9.31		41.63		9.07		597
PIBLK17		21:51	38.71		9.31		41.64		9.07		[illegible]
INDAM08		23:05	38.70		9.32		41.65		9.07		599
INDBM08	8/1/96	00:00	38.71		9.32		41.65		9.07		602
AR125403		00:55	38.73		9.32		41.66		9.07		603
2439 987MS/50		01:50	D		9.31		D		9.06		604
2439 987MSD/50		02:45	D		9.30		D		9.06		605
PIBLK18		03:40	38.70		9.30		41.63		9.07		606
PIBLK19		04:35	38.71		9.31		41.64		9.07		607

Min Dif = Minutes Difference
*Value Outside QC Limits
QC Limits = +/- 0.05 for TCMX
QC Limits = +/- 0.10 for DBC
QC Limits = +/- for

** Verification of Calibration Curve: Date Acquired: _____ to _____
*** Part of Calibration Curve Time Acquired: _____ to _____

Form filename: RTSHI8903.GC

Industrial Corrosion Management
GC Instrument Log

Chronicle # _____

Evaluation of Retention Time Shift for: TCMX DBC Other
(Circle one)

Batch #: _____ Instrument ID: 58903

Channel A ID: DB1701 _____ Matrix: Soil Water Sludge Oil Other

Channel B ID: DB608 _____

UL INJ.__

Dates of Analyses: _____ to _____

Sequence: _____

Analyst: _____ Supervisor: [signature] GC Temperature Program: _____

For Pesticide/PCB: Surr. 1 = DBC & Surr. 2 = TCMX For others: Surr. 1 = _____ & Surr. 2 = _____

Sample No.	Date of Analysis	Time of Analysis	Channel A Surr. 1		Channel A Surr. 2		Channel B Surr. 1		Channel B Surr. 2		Comments
			RT	Min Dif	RT	Min Dif	RT	Min Dif	RT	Min Dif	
P2mlk	8/1/96	05:30	38.69		9.31		41.63		9.07		608 good

Min Dif = Minutes Difference
* Value Outside QC Limits
QC Limits = +/- 0.05 for TCMX
QC Limits = +/- 0.10 for DBC
QC Limits = +/- for

** Verification of Calibration Curve: Date Acquired: _____ to _____
*** Part of Calibration Curve Time Acquired: _____ to _____

Form filename: RTSH8905.GC

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.:RIN3__

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
RIN3	239995
RIN3D	239995D
RIN3S	239995S
SS23	239997
SS24	239999
S23	239996
S24	239998
S25	240000
S29	240006
TP1A	239987
TP1AD	239987D
TP1AS	239987S
TP1B	239988
TP2A	239989
TP2B	239990
TP3A	240003
TP3B	240004
TP4A	240005
TP5A	240001
TP5B	240002

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

SAMPLE 239987 WAS INADVERTENTLY DISPOSED OF PRIOR TO THE REALIZATION THAT A POST SPIKE WAS REQUIRED FOR CHROMIUM. THE SAMPLE WAS THEREFORE, WAS REDIGESTED AND THE POST SPIKE WAS PERFORMED ON THE SECOND DIGESTATE.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Richard Levine Name: Richard S. Levine

Date: 8/15/96 Title: Laboratory Manager

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.:RIN3__

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
TP6A	239991
TP6B	239992
TP8A	239993

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Richard S. Levine Name: _Richard S. Levine_____

Date: _____ Title: _Laboratory Manager_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RIN3

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): WATER Lab Sample ID: 239995

Level (low/med): LOW__ Date Received: 07/24/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.80	U		P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	1.2	U		P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	1.7	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	2.3	U		P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SS23

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 239997

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _84.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.7			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	11.4		N J	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	126			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.22			CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	1.7	B		P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: BLACK____ Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SS24

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 239999

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _90.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.73	B		P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	17.8		N J	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	349			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.08	B		CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	4.7			P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: TAN\RED__ Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:

ARTIFACTS:_STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S23

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 239996

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _91.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	3.9			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	16.1		N J	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	297			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.29			CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	4.2			P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
_____	Cyanide__				NR

Color Before: BLACK____ Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:

ARTIFACTS:_STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S24

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 239998

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _93.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	5.4			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	29.9		N	P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	283			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver	13.8			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: TAN\RED__ Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:

ARTIFACTS: _STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S25

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 240000

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _85.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	9.6			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	23.1		N J	P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	441			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.74			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver	6.7			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BLACK____ Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:

ARTIFACTS: STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S29

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 240006

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _59.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	44.7			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	34.1		N J	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	1740			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	1.2			CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	7.0			P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: BLACK/WHI Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:

ARTIFACTS:_STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

TP1A

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 239987

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _84.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	12.0			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	65.1		N J	P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	294			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.1			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver	3.2			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BLACK____ Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:
ARTIFACTS:_STONES,_GLASS

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

TP1B

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 239988

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _88.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.3			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	15.9		N J	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	55.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.12			CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	0.52	U		P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: BROWN____ Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:

ARTIFACTS:_STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

TP2A

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 239989

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _87.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	3.0			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	13.9		N J	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	139			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.34			CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	3.4			P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: BROWN____ Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:
ARTIFACTS: _STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

TP2B

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 239990

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _87.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.18	U		P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	13.9		N	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	11.3			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	0.53	U		P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: RED/BROWN Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:
ARTIFACTS:_STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

TP3A

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 240003

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	7.1			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	14.6		N J	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	318			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.97			CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	0.71	B		P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: BLACK____ Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:
ARTIFACTS: STONES

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EPA SAMPLE NO.

TP3B

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 240004

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _82.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_		_		NR
7440-36-0	Antimony_		_		NR
7440-38-2	Arsenic__		_		NR
7440-39-3	Barium__		_		NR
7440-41-7	Beryllium		_		NR
7440-43-9	Cadmium__	0.19	U		P
7440-70-2	Calcium__		_		NR
7440-47-3	Chromium_	9.4	_	N J	P
7440-48-4	Cobalt___		_		NR
7440-50-8	Copper___		_		NR
7439-89-6	Iron____		_		NR
7439-92-1	Lead____	7.3	_		P
7439-95-4	Magnesium		_		NR
7439-96-5	Manganese		_		NR
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___		_		NR
7440-09-7	Potassium		_		NR
7782-49-2	Selenium_		_		NR
7440-22-4	Silver___	0.56	U		P
7440-23-5	Sodium___		_		NR
7440-28-0	Thallium_		_		NR
7440-62-2	Vanadium_		_		NR
7440-66-6	Zinc____		_		NR
	Cyanide__		_		NR

Color Before: BLACK____ Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

TP4A

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 240005

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _76.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	5.4			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	27.5		N J	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	459			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.25			CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	2.6	B		P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: BROWN____ Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:
ARTIFACTS:_STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

TP5A

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 240001

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _82.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	16.6			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	15.7		N J	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	1180			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.63			CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	5.4			P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: BLACK/BRO Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:
ARTIFACTS:_STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

TP5B

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 240002

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _54.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	14.8			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	191		N J	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	480			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.09	U		CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	3.1	B		P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
_____	Cyanide__				NR

Color Before: TAN_____ Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

TP6A

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 239991

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _65.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.7			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	75.0		N J	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	1970			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.30			CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	0.70	U		P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: RED/BROWN Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:

ARTIFACTS:_STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

TP6B

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 239992

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _84.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.19	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	14.2		N J	P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	25.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver	0.55	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: RED/BROWN Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:

ARTIFACTS:_STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

TP8A

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Lab Sample ID: 239993

Level (low/med): LOW__ Date Received: 07/17/96

% Solids: _69.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.3	B		P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	33.1		N J	P
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____	1870			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__	0.34			CV
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___	0.66	U		P
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: RED/BROWN Clarity Before: OPAQUE Texture: MED___

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: YES___

Comments:
ARTIFACTS: _STONES

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM Case No.: _____ SAS No.: _____ SDG No.: RIN3

Initial Calibration Source: INORGANIC VE

Continuing Calibration Source: INORGANIC VE

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium	100.0	100.73	100.7	500.0	512.20	102.4	500.80	100.2	P
Calcium									NR
Chromium	400.0	399.39	99.8	500.0	510.40	102.1	500.12	100.0	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	500.0	498.20	99.6	1000.0	1028.00	102.8	1007.00	100.7	P
Magnesium									NR
Manganese									NR
Mercury	4.0	3.52	88.0	5.0	5.02	100.4	5.01	100.2	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver	250.0	254.14	101.7	625.0	635.62	101.7	625.91	100.1	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Initial Calibration Source: INORGANIC VE

Continuing Calibration Source: INORGANIC VE

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium				500.0	496.45	99.3	491.71	98.3	P
Calcium									NR
Chromium				500.0	501.04	100.2	498.48	99.7	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				1000.0	1005.00	100.5	994.10	99.4	P
Magnesium									NR
Manganese									NR
Mercury				5.0	5.01	100.2	4.93	98.6	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver				625.0	629.28	100.7	628.07	100.5	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Initial Calibration Source: INORGANIC VE

Continuing Calibration Source: INORGANIC VE

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium				500.0	499.66	99.9	497.71	99.5	P
Calcium									NR
Chromium				500.0	506.05	101.2	504.30	100.9	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				1000.0	1009.00	100.9	1006.00	100.6	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver				625.0	633.48	101.4	633.80	101.4	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Initial Calibration Source: INORGANIC VE

Continuing Calibration Source: INORGANIC VE

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium				500.0	503.22	100.6			P
Calcium									NR
Chromium				500.0	510.76	102.2			P
Cobalt									NR
Copper									NR
Iron									NR
Lead				1000.0	1016.00	101.6	1003.06	100.3	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver				625.0	641.55	102.6			P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Initial Calibration Source: INORGANIC VE

Continuing Calibration Source: INORGANIC VE

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium	400.0	402.65	100.7	500.0	513.18	102.6	509.89	102.0	P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Initial Calibration Source: INORGANIC VE

Continuing Calibration Source: INORGANIC VE

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				500.0	508.99	101.8	511.74	102.3	P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

AA CRDL Standard Source: INORGANIC VE

ICP CRDL Standard Source: INORGANIC VE

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium				10.0	10.32	103.2	10.11	101.1
Calcium								
Chromium				20.0	19.88	99.4	19.81	99.0
Cobalt								
Copper								
Iron								
Lead				6.0	7.40	123.3	8.00	133.3
Magnesium								
Manganese								
Mercury	0.2	0.13	65.0					
Nickel								
Potassium								
Selenium								
Silver				20.0	20.65	103.2	20.67	103.4
Sodium								
Thallium								
Vanadium								
Zinc								

Control Limits: no limits have been established by EPA at this time

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

AA CRDL Standard Source: INORGANIC VE

ICP CRDL Standard Source: INORGANIC VE

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium				10.0			10.20	102.0
Calcium								
Chromium				20.0			20.00	100.0
Cobalt								
Copper								
Iron								
Lead				6.0			8.00	133.3
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver				20.0			20.69	103.4
Sodium								
Thallium								
Vanadium								
Zinc								

Control Limits: no limits have been established by EPA at this time

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

AA CRDL Standard Source: INORGANIC VE

ICP CRDL Standard Source: INORGANIC VE

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium				10.0			10.56	105.6
Calcium								
Chromium				20.0			19.90	99.5
Cobalt								
Copper								
Iron								
Lead				6.0			8.80	146.7
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver				20.0			20.82	104.1
Sodium								
Thallium								
Vanadium								
Zinc								

Control Limits: no limits have been established by EPA at this time

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

AA CRDL Standard Source: _____

ICP CRDL Standard Source: INORGANIC VE

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium				20.0	20.41	102.0	19.75	98.8
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

Control Limits: no limits have been established by EPA at this time

U.S. EPA - CLP

3
BLANKS

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium	0.8	U	0.8	U	0.8	U	0.8	U	0.160	U	P
Calcium											NR
Chromium	1.2	U	1.2	U	1.2	U	1.2	U	0.240	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	1.7	U	1.7	U	2.0	B	1.7	U	0.340	U	P
Magnesium											NR
Manganese											NR
Mercury	-0.1	B	0.1	U	0.1	U	0.1	U	0.050	U	CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver	2.3	U	2.3	U	2.3	U	2.3	U	0.460	U	P
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN ILM04.0

U.S. EPA - CLP

3
BLANKS

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium			0.8	U	0.8	U	0.8	U	0.800	U	P
Calcium											NR
Chromium			1.2	U	1.2	U	1.2	U	1.200	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead			1.7	U	1.7	B	1.8	B	1.700	U	P
Magnesium											NR
Manganese											NR
Mercury			0.1	U					-0.114	B	CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver			2.3	U	2.3	U	2.3	U	2.300	U	P
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN ILM04.0

U.S. EPA - CLP

3
BLANKS

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium			0.8	U							P
Calcium											NR
Chromium			1.2	U					0.260	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead			1.7	U							P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver			2.3	U							P
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN ILM04.0

U.S. EPA - CLP

3
BLANKS

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium	1.3	U	1.3	U	1.3	U	1.3	U			P
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN ILM04.0

U.S. EPA - CLP

3
BLANKS

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium			1.3	U							P
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN ILM04.0

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No: _____ SDG No.: RIN3__

ICP ID Number: TJA TRACE___ ICS Source: INORGANIC VE

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	468000	455910	460580.0	98.4	454520	455250.0	97.3
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	0	997	1	937.2	94.0	2	910.4	91.3
Calcium	500000	462000	443550	447710.0	96.9	445360	443650.0	96.0
Chromium	0	511	7	485.7	95.0	7	479.5	93.8
Cobalt								
Copper								
Iron	200000	199000	187360	187710.0	94.3	185290	184060.0	92.5
Lead	0	53	4	54.1	102.1	3	52.6	99.2
Magnesium	500000	532000	504440	504.8	0.1	499950	496040.0	93.2
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver	0	217	0	219.2	101.0	0	218.4	100.6
Sodium								
Thallium								
Vanadium								
Zinc								

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No: _____ SDG No.: RIN3__

ICP ID Number: TJA TRACE___ ICS Source: INORGANIC VE

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	468000				457300	456130.0	97.5
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	0	997				2	918.7	92.1
Calcium	500000	462000				450480	448920.0	97.2
Chromium	0	511				8	483.8	94.7
Cobalt								
Copper								
Iron	200000	199000				186600	185450.0	93.2
Lead	0	53				4	52.5	99.1
Magnesium	500000	532000				504190	499320.0	93.9
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver	0	217				0	221.1	101.9
Sodium								
Thallium								
Vanadium								
Zinc								

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM Case No.: _____ SAS No: _____ SDG No.: RIN3

ICP ID Number: TJA TRACE ICS Source: INORGANIC VE

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	468000				459670	458990.0	98.1
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	0	997				2	920.5	92.3
Calcium	500000	462000				450800	449560.0	97.3
Chromium	0	511				9	484.7	94.9
Cobalt								
Copper								
Iron	200000	199000				186740	185920.0	93.4
Lead	0	53				6	52.4	98.9
Magnesium	500000	532000				502870	499160.0	93.8
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver	0	217				0	220.0	101.4
Sodium								
Thallium								
Vanadium								
Zinc								

FORM IV - IN ILM04.0

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No: _____ SDG No.: RIN3__

ICP ID Number: TJA TRACE___ ICS Source: INORGANIC VE

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	468000	462815	436975.0	93.4	455603	437590.9	93.5
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium	500000	462000	457038	435198.9	94.2	447421	433816.4	93.9
Chromium	0	511	1	478.6	93.7	1	477.5	93.4
Cobalt								
Copper								
Iron	200000	199000	195846	184630.2	92.8	191205	183912.5	92.4
Lead								
Magnesium	500000	532000	519049	482309.7	90.7	510499	482351.8	90.7
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

RIN3S

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): WATER_ Level (low/med): LOW___

Solids for Sample: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium	75-125	50.9800		0.8000	U	50.00	102.0		P
Calcium									NR
Chromium	75-125	206.0500		1.2000	U	200.00	103.0		P
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	22.7000		1.7000	U	20.00	113.5		P
Magnesium									NR
Manganese									NR
Mercury	75-125	0.9050		0.1000	U	1.00	90.5		CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver	75-125	53.6600		2.3000	U	50.00	107.3		P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

TP1AS

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL__ Level (low/med): LOW___

Solids for Sample: _84.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium	75-125	21.3310		12.0047		11.82	78.9		P
Calcium									NR
Chromium	75-125	132.4326		65.1040		47.28	142.4	N	P
Cobalt									NR
Copper									NR
Iron									NR
Lead		321.9858		293.8534		4.73	594.8		P
Magnesium									NR
Manganese									NR
Mercury	75-125	1.7494		1.1407		0.59	103.2		CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver	75-125	12.8369		3.1678		11.82	81.8		P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:
ARTIFACTS:_STONES,_GLASS

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

TP1AA

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water) : SOIL__ Level (low/med): LOW___

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium		823.55		275.39		550.0	99.7		P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:
ARTIFACTS:_STONES,_GLASS

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

RIN3D

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

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

% Solids for Sample: __0.0 % Solids for Duplicate: ___0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium		0.8000	U	0.8000	U			P
Calcium								NR
Chromium		1.2000	U	1.2000	U			P
Cobalt								NR
Copper								NR
Iron								NR
Lead		1.7000	U	1.7000	U			P
Magnesium								NR
Manganese								NR
Mercury		0.1000	U	0.1000	U			CV
Nickel								NR
Potassium								NR
Selenium								NR
Silver		2.3000	U	2.3000	U			P
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

FORM VI - IN ILM04.0

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

TP1AD

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: _84.6 % Solids for Duplicate: __84.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium		12.0047		11.9243		0.7		P
Calcium								NR
Chromium		65.1040		60.5366		7.3		P
Cobalt								NR
Copper								NR
Iron								NR
Lead		293.8534		294.7991		0.3		P
Magnesium								NR
Manganese								NR
Mercury		1.1407		1.1407		0.0		CV
Nickel								NR
Potassium								NR
Selenium								NR
Silver	2.3641	3.1678		3.1584		0.3		P
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

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LABORATORY CONTROL SAMPLE

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Solid LCS Source: ERA 227_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium				128.0	119.5		66.6	184.0	93.4
Calcium									
Chromium				114.0	102.2		61.6	161.0	89.6
Cobalt									
Copper									
Iron									
Lead				87.6	81.6		46.4	124.0	93.2
Magnesium									
Manganese									
Mercury				2.3	2.1		1.1	3.6	91.3
Nickel									
Potassium									
Selenium									
Silver				71.6	71.9		32.2	104.0	100.4
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

FORM VII - IN ILM04.0

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Solid LCS Source: ERA 227_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium				114.0	109.4		61.6	161.0	96.0
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Solid LCS Source: _____

Aqueous LCS Source: INORGANIC VE

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium	50.0	52.47	104.9						
Calcium									
Chromium	200.0	210.02	105.0						
Cobalt									
Copper									
Iron									
Lead	250.0	253.30	101.3						
Magnesium									
Manganese									
Mercury	4.0	3.71	92.8						
Nickel									
Potassium									
Selenium									
Silver	625.0	111.01	17.8						
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

U.S. EPA - CLP

9

ICP SERIAL DILUTION

EPA SAMPLE NO.

RIN3L

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium	0.80	U	4.00	U			P
Calcium							NR
Chromium	1.20	U	6.00	U			P
Cobalt							NR
Copper							NR
Iron							NR
Lead	1.70	U	8.50	U			P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver	2.30	U	11.50	U			P
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

FORM IX - IN ILM04.0

U.S. EPA - CLP

9

ICP SERIAL DILUTION

EPA SAMPLE NO.

TP1AL

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

Matrix (soil/water): SOIL_ Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium	50.78		50.95		0.3		P
Calcium							NR
Chromium	275.39		262.45		4.7		P
Cobalt							NR
Copper							NR
Iron							NR
Lead	1243.00		1280.50		3.0		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver	13.40		13.90	B	3.7		P
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

FORM IX - IN ILM04.0

U.S. EPA - CLP

10

Instrument Detection Limits (Quarterly)

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM Case No.: _____ SAS No.: _____ SDG No.: RIN3

ICP ID Number: TJA_TRACE Date: 07/12/96

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	10.2	P
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium	317.90		5000	13.2	P
Chromium	267.70		10	1.3	P
Cobalt			50		NR
Copper			25		NR
Iron	271.40		100	16.0	P
Lead	220.35		3	1.7	P
Magnesium	279.00		5000	8.3	P
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

FORM X - IN ILM04.0

U.S. EPA - CLP

10

Instrument Detection Limits (Quarterly)

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

ICP ID Number: _____ Date: 07/12/96

Flame AA ID Number : LEEMAN_PS200

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV ✓
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

FORM X - IN ILM04.0

U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM Case No.: _____ SAS No.: _____ SDG No.: RIN3

ICP ID Number: TJA TRACE Date: 02/07/96

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	CO
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.00	0.0000000	-0.0079146	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0001609	0.0000000	0.0000000	-0.0003100
Calcium	317.90	0.0006000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000120	0.0000000	0.0000000
Cobalt	229.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	-0.0000110	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0031200	0.0000000	-0.0001100	0.0000000	0.0654297
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.00	0.0005650	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000180	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	-0.0006300
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0003180	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0000000	-0.0007100	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	-0.0646300	0.0000000	0.0000000	0.0059830
Vanadium	292.40	0.0000000	0.0001278	0.0000000	0.0000000	0.0000000
Zinc	213.80	0.0000000	0.0001300	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM Case No.: _____ SAS No.: _____ SDG No.: RIN3

ICP ID Number: TJA TRACE Date: 02/07/96

Analyte	Wave-length (nm)	Interelement Correction Factors for : CR	MN	MO	NI	TI
Aluminum	308.20	0.0000000	0.0000000	0.0166710	0.0000000	0.0000000
Antimony	206.80	0.0008484	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.00	0.0002950	0.0000000	0.2444500	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	-0.0005000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	229.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0024400
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0023010	-0.0015000	0.0021160	0.0001103	-0.0015000
Lead	220.35	0.0000000	0.0003283	0.0000000	0.0000000	0.0000000
Magnesium	279.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0024620	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0000000	0.0000000	0.0325930	0.0000000	0.0000000
Thallium	190.80	0.2786000	-0.0007458	0.0000000	0.0000000	-0.9883000
Vanadium	292.40	0.0000000	0.0000000	0.0012500	0.0032400	0.0005100
Zinc	213.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XI (Part 2) - IN ILM04.0

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

ICP ID Number: TJA TRACE___ Date: 02/07/96

Analyte	Wave-length (nm)	Interelement Correction Factors for : V__	ZN_	___	___	___
Aluminum	308.20	0.0329600	-0.0043000			
Antimony	206.80	0.0000000	0.0000000			
Arsenic	189.00	0.0000000	0.0000000			
Barium	493.40	0.0000000	0.0000000			
Beryllium	313.00	0.0000000	0.0000000			
Cadmium	226.50	0.0000000	0.0000000			
Calcium	317.90	0.0000000	0.0000000			
Chromium	267.70	0.0000000	0.0000000			
Cobalt	229.60	0.0000000	0.0000000			
Copper	324.70	0.0000000	0.0000000			
Iron	271.40	0.0052000	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Magnesium	279.00	0.0000000	0.0000000			
Manganese	257.60	0.0000000	0.0000000			
Mercury						
Nickel	231.60	0.0000000	0.0000000			
Potassium	766.40	0.0000000	0.0000000			
Selenium	196.00	0.0000000	0.0000000			
Silver	328.00	0.0000000	0.0000000			
Sodium	330.20	0.0000000	0.0490000			
Thallium	190.80	0.0000000	0.0000000			
Vanadium	292.40	0.0000000	0.0000000			
Zinc	213.80	0.0000000	0.0000000			

Comments:

U.S. EPA - CLP

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: RIN3__

ICP ID Number: TJA TRACE___ Date: 07/12/96

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	600000.0	P
Antimony	10.00	80000.0	P
Arsenic	10.00	20000.0	P
Barium	10.00	20000.0	P
Beryllium	10.00	35000.0	P
Cadmium	10.00	15000.0	P
Calcium	10.00	500000.0	P
Chromium	10.00	80000.0	P
Cobalt	10.00	20000.0	P
Copper	10.00	20000.0	P
Iron	10.00	450000.0	P
Lead	10.00	25000.0	P
Magnesium	10.00	600000.0	P
Manganese	10.00	15000.0	P
Mercury			NR
Nickel	10.00	25000.0	P
Potassium	10.00	80000.0	P
Selenium	10.00	10000.0	P
Silver	10.00	4000.0	P
Sodium	10.00	600000.0	P
Thallium	10.00	8000.0	P
Vanadium	10.00	8000.0	P
Zinc	10.00	15000.0	P

Comments:

FORM XII - IN ILM04.0

U.S. EPA - CLP

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PREPARATION LOG

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.:_____ SAS No.: _____ SDG No.:RIN3__

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	07/24/96	1.00	200
LCSW	07/24/96		100
LCSW	07/24/96		100
PBS	07/24/96	1.00	200
RIN3	07/24/96		100
RIN3D	07/24/96		100
RIN3S	07/24/96		100
S23	07/24/96	1.00	200
S24	07/24/96	1.00	200
S254	07/24/96	1.00	200
S29	07/24/96	1.00	200
SS23	07/24/96	1.00	200
SS24	07/24/96	1.00	200
TP1A	07/24/96	1.00	200
TP1AD	07/24/96	1.00	200
TP1AS	07/24/96	1.00	200
TP1B	07/24/96	1.00	200
TP2A	07/24/96	1.00	200
TP2B	07/24/96	1.00	200
TP3A	07/24/96	1.00	200
TP3B	07/24/96	1.00	200
TP4A	07/24/96	1.00	200
TP5A	07/24/96	1.00	200
TP5B	07/24/96	1.00	200
TP6A	07/24/96	1.00	200
TP6B	07/24/96	1.00	200
TP8A	07/24/96	1.00	200

FORM XIII - IN ILM04.0

U.S. EPA - CLP

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PREPARATION LOG

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.:_____ SAS No.: _____ SDG No.:RIN3__

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	08/13/96	1.00	200
PBS	08/13/96	1.00	200
TP1A	08/13/96	1.00	200

FORM XIII - IN ILM04.0

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.:_____ SAS No.: _____ SDG No.:RIN3__

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	07/24/96	0.20	100
LCSW	07/24/96		100
LCSW	07/24/96		100
PBS	07/24/96	0.20	100
RIN3	07/24/96		100
RIN3D	07/24/96		100
RIN3S	07/24/96		100
S23	07/24/96	0.20	100
S24	07/24/96	0.20	100
S254	07/24/96	0.20	100
S29	07/24/96	0.20	100
SS23	07/24/96	0.20	100
SS24	07/24/96	0.20	100
TP1A	07/24/96	0.20	100
TP1AD	07/24/96	0.20	100
TP1AS	07/24/96	0.20	100
TP1B	07/24/96	0.20	100
TP2A	07/24/96	0.20	100
TP2B	07/24/96	0.20	100
TP3A	07/24/96	0.20	100
TP3B	07/24/96	0.20	100
TP4A	07/24/96	0.20	100
TP5A	07/24/96	0.20	100
TP5B	07/24/96	0.20	100
TP6A	07/24/96	0.20	100
TP6B	07/24/96	0.20	100
TP8A	07/24/96	0.20	100

FORM XIII - IN ILM04.0

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.:RIN3__

Instrument ID Number: TJA TRACE____ Method: P_

Start Date: 07/25/96 End Date: 07/25/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1700		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
S	1.00	1704		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ICV	1.00	1708		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ICB	1.00	1713		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	1718		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	1723		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CRI	1.00	1728		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ICSA	1.00	1733		X	-	-	-	-	X	X	X	-	-	X	X	X	-	-	-	-	-	X	-	-	-	-	-
ICSAB	1.00	1738		X	-	-	-	-	X	X	X	-	-	X	X	X	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	1743		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	1748		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
PBW	1.00	1753		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
LCSW	1.00	1758		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RIN3	1.00	1803		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RIN3D	1.00	1807		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RIN3L	1.00	1812		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RINS	1.00	1817		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
PBS	1.00	1822		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
LCSS	1.00	1827		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP1A	1.00	1832		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP1AD	1.00	1837		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	1842		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	1847		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP1AL	5.00	1852		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP1AS	1.00	1857		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP1B	1.00	1902		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP2A	1.00	1907		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CRI	1.00	1912		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ICSA	1.00	1916		X	-	-	-	-	X	X	X	-	-	X	X	X	-	-	-	-	-	X	-	-	-	-	-
ICSAB	1.00	1921		X	-	-	-	-	X	X	X	-	-	X	X	X	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	1926			-	-	-	-	X		X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	1931		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.:RIN3__

Instrument ID Number: TJA TRACE____ Method: P_

Start Date: 07/25/96 End Date: 07/25/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
TP2B	1.00	1936		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP6A	1.00	1941		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP6B	1.00	1946		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP8A	1.00	1951		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
S23	1.00	1956		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
SS23	1.00	2001		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
S24	1.00	2006		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
SS24	1.00	2011		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
S25	1.00	2016		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP5A	1.00	2021		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	2025		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	2030		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP5B	1.00	2035		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP3A	1.00	2040		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP3B	1.00	2045		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
TP4A	1.00	2050		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CRI	1.00	2055		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ICSA	1.00	2100		X	-	-	-	-	X	X	X	-	-	X	X	X	-	-	-	-	-	X	-	-	-	-	-
ICSAB	1.00	2105		X	-	-	-	-	X	X	X	-	-	X	X	X	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	2110			-	-	-	-	X		X	-	-		X		-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	2115		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
S29	1.00	2120		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CRI	1.00	2125		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ICSA	1.00	2130		X	-	-	-	-	X	X	X	-	-	X	X	X	-	-	-	-	-	X	-	-	-	-	-
ICSAB	1.00	2135		X	-	-	-	-	X	X	X	-	-	X	X	X	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	2139			-	-	-	-	X		X	-	-		X		-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	2144		-	-	-	-	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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ANALYSIS RUN LOG

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.:RIN3__

Instrument ID Number: TJA TRACE____ Method: P_

Start Date: 08/14/96 End Date: 08/14/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0947		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S	1.00	0952		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	0956		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICB	1.00	1000		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1005		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1009		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	1013		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1018		X	-	-	-	-	-	X	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	1022		X	-	-	-	-	-	X	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1027		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1031		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1035		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1040		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1044		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1048		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1053		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1057		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1106		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1110		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1115		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1119		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1124		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PBS	1.00	1128		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LCSS	1.00	1132		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP1A	1.00	1137		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP1AA	1.00	1141		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	1145		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1150		X	-	-	-	-	-	X	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	1154		X	-	-	-	-	-	X	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1159		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1203		-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.:RIN3__

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 07/25/96 End Date: 07/25/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1717																X									
S0.2	1.00	1720																X									
S0.5	1.00	1722																X									
S1	1.00	1725																X									
S5	1.00	1728																X									
S10	1.00	1730																X									
ICV	1.00	1733																X									
ICB	1.00	1736																X									
CCV	1.00	1738																X									
CCB	1.00	1741																X									
CRA	1.00	1744																X									
PBS	1.00	1746																X									
LCSS	1.00	1749																X									
TP1A	1.00	1751																X									
TP1AD	1.00	1754																X									
TP1AS	1.00	1757																X									
TP1B	1.00	1759																X									
TP2A	1.00	1802																X									
TP2B	1.00	1804																X									
TP6A	1.00	1807																X									
CCV	1.00	1810																X									
CCB	1.00	1812																X									
TP6B	1.00	1815																X									
TP8A	1.00	1817																X									
S23	1.00	1820																X									
SS23	1.00	1823																X									
S24	1.00	1825																X									
SS24	1.00	1828																X									
S254	1.00	1830																X									
TP5A	1.00	1833																X									
TP5B	1.00	1835																X									
TP3A	1.00	1838																X									

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ANALYSIS RUN LOG

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM Case No.: _____ SAS No.: _____ SDG No.:RIN3

Instrument ID Number: LEEMAN PS200 Method: CV

Start Date: 07/25/96 End Date: 07/25/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	1841																X									
CCB	1.00	1843																X									
TP3B	1.00	1846																X									
TP4A	1.00	1848																X									
S29	1.00	1851																X									
LCSW	1.00	1853																X									
LCSW	1.00	1856																X									
RIN3	1.00	1859																X									
RIN3D	1.00	1901																X									
RIN3S	1.00	1904																X									
CCV	1.00	1906																X									
CCB	1.00	1909																X									

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CLP/Task IV ICP LABORATORY CHRMONCLE: METALS DEPARTMENT

SAS No. NA

Analysis Date 07-25-96

SDG No. RIN3

Page 1 of 2

Batch No. 2659

Run No. 1

Instrument ICAP-61E
Autosampler Table 072596LR
Data File JULY25R

Analyst's Sign. Lynne K. Maedl

Reviewed by: [illegible]

Standard	Lot No.	Conc.
Blank, ICB, CCB	1SH-26-1	0
Std #2	1SH-26-2	Multi
ICV	1SH-26-5	Multi
CCV	1SH-26-4	Multi
ICSA	1SH-20L-2	Multi
ICSAB	1SH-20L-3	Multi
CRI	1SH-20L-1	Multi

EPA Sample No.	ICM Sample No.	Cup No.	DF	Comments
	ICV	QA3		
	ICB	1		
	CCV ①	QA4		
	CCB	2		
	CRI	3		
	ICSA	4		
	ICSAB	5		
	CCV ②	QA4		
	CCB	6		
	PBW	7		
	LCSW	8		
	239995	9		
	239995D	10		
	239995L	11		
	239995S	12		
	PBS	13		
	LCSS	14		
	239987	15		Redigest / Reanalyze chromium w/ post.
	239987D	16		
	CCV ③	QA4		
	CCB	17		
	239987L	18		
	239987S	19		
	239988	20		
	239989	21		
	CRI	22		
	ICSA	23		
	ICSAB	24		
	CCV ④	QA5		
	CCB	25		
	239990	26		
	239991	27		
	239992	28		
	239993	29		
	239996	30		
	239997	31		
	239998	32		
	239999	33		
	2374000D	34		
	240001	35		

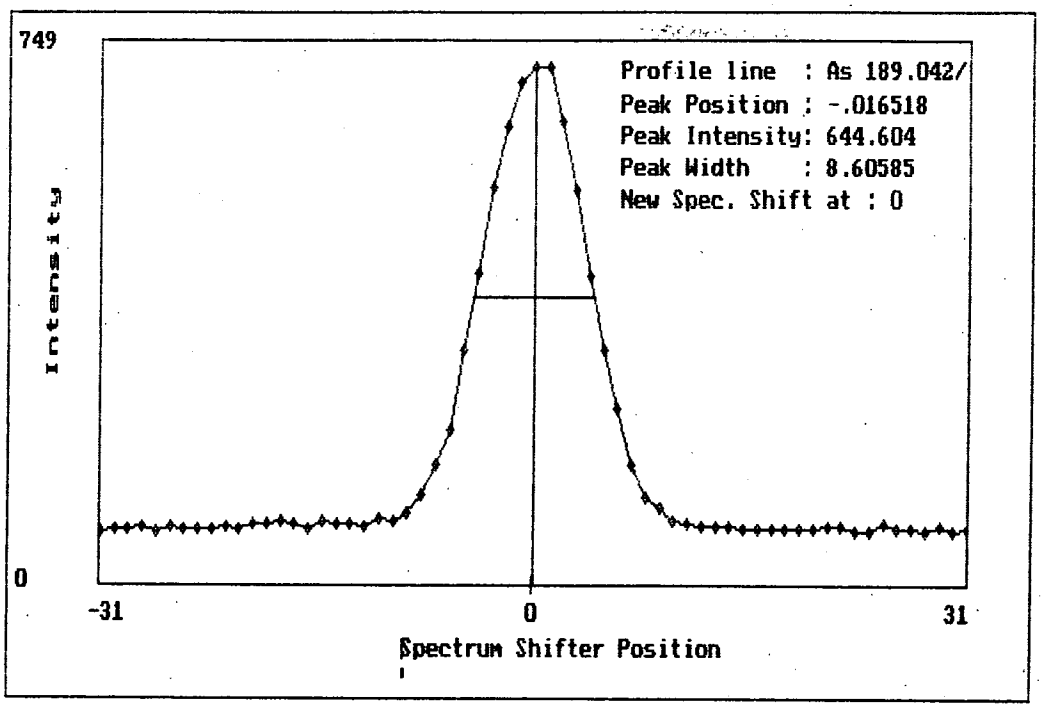
CLP/Task IV ICP LABORATORY CHRONICLE: METALS DEPARTMENT

Continuation of run on : Analysis Date 07-25-96

Analyst's Sign. Grace Maedel

Page 2 of 2

EPA Sample No.	ICM Sample No.	Cup No.	DF	Comments
	CCV-5	QA5		
	CCB	36		
	240002	37		
	240003	38		
	240004	39		
	240005	40		
	CRI	41		
	ICSA	42		
	ICSAB	43		
	CCV-6	QA5		
	CCB	44		
	240006	45		
	CRI	46		
	ICSA	47		
	ICSAB	48		
	CCV-7	QA6		
	CCB	49		



Lynne F. Macell
07/25/96

Method: EPA Standard: S0

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Avge	.04985	-.00992	.00165	-.00406	-.00003	-.02875	.00148
SDev	.00026	.00031	.00066	.00235	.00005	.00029	.00044
%RSD	.51371	3.1299	39.837	57.926	173.21	1.0052	29.593
#1	.05013	-.00958	.00240	-.00438	.00000	-.02841	.00198
#2	.04979	-.00999	.00116	-.00157	.00000	-.02890	.00132
#3	.04963	-.01019	.00140	-.00625	-.00008	-.02893	.00115

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Avge	.00176	.04512	.00110	-.00063	.01017	-.00154	-.02306
SDev	.00277	.00006	.00047	.00025	.00023	.00119	.00388
%RSD	157.00	.14000	42.832	39.556	2.2307	77.121	16.841
#1	.00017	.04510	.00149	-.00041	.01032	-.00289	-.01974
#2	.00495	.04508	.00124	-.00058	.00991	-.00066	-.02733
#3	.00016	.04520	.00058	-.00090	.01027	-.00107	-.02211

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Avge	-.00314	-.00025	.00030	.00074	-.00033	-.07389	-.01036
SDev	.00470	.00038	.00010	.00054	.00074	.00381	.00202
%RSD	149.75	152.72	31.666	72.961	225.44	5.1512	19.511
#1	-.00826	.00008	.00041	.00066	.00041	-.07062	-.00834
#2	-.00215	-.00017	.00025	.00132	-.00033	-.07299	-.01238
#3	.00099	-.00066	.00025	.00025	-.00107	-.07807	-.01035

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Avge	.00651	.09731	.00055	-.02910	-.00058	-.00296	.00091
SDev	.00089	.00153	.00034	.00107	.00107	.00211	.00050
%RSD	13.663	1.5756	62.488	3.6741	185.91	71.129	55.435
#1	.00727	.09845	.00083	-.02792	.00050	-.00132	.00124
#2	.00553	.09792	.00017	-.02939	-.00058	-.00223	.00116
#3	.00674	.09557	.00066	-.02999	-.00164	-.00534	.00033

Elem	V_2924	Zn2138
Avge	.00017	.00261
SDev	.00008	.00017
%RSD	50.174	6.6825
#1	.00025	.00281
#2	.00017	.00248
#3	.00008	.00255

Method: EPA Standard: S

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Avge	1.9989	2.9946	2.1484	2.7075	15.986	1.1501	3.6919
SDev	.0017	.0208	.0135	.0047	.010	.0021	.0021
%RSD	.08715	.69364	.62651	.17317	.06132	.18106	.05665
#1	1.9997	2.9708	2.1353	2.7073	15.998	1.1509	3.6905
#2	1.9969	3.0095	2.1478	2.7122	15.979	1.1516	3.6910
#3	2.0001	3.0033	2.1622	2.7028	15.983	1.1477	3.6943

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Avge	7.7274	3.5443	1.8318	2.3783	1.8617	.28874	5.5632
SDev	.0104	.0051	.0026	.0038	.0021	.00027	.0068
%RSD	.13489	.14339	.14397	.15942	.11032	.09211	.12308
#1	7.7249	3.5428	1.8313	2.3783	1.8623	.28845	5.5556
#2	7.7388	3.5499	1.8347	2.3822	1.8594	.28879	5.5652
#3	7.7184	3.5401	1.8295	2.3746	1.8634	.28898	5.5689

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Avge	5.0414	3.3170	3.8666	7.8399	8.6340	12.416	1.7106
SDev	.0164	.0024	.0043	.0253	.0051	.008	.0045
%RSD	.32602	.07306	.11245	.32229	.05859	.06616	.26503
#1	5.0261	3.3176	3.8652	7.8121	8.6396	12.414	1.7118
#2	5.0588	3.3191	3.8715	7.8614	8.6327	12.409	1.7056
#3	5.0394	3.3143	3.8631	7.8463	8.6297	12.425	1.7144

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Avge	2.0139	3.2916	2.2039	.43408	6.3733	1.7133	14.711
SDev	.0109	.0018	.0015	.00188	.0075	.0015	.012
%RSD	.54085	.05452	.06739	.43417	.11740	.09014	.08220
#1	2.0017	3.2931	2.2056	.43502	6.3719	1.7143	14.722
#2	2.0174	3.2896	2.2031	.43531	6.3814	1.7140	14.714
#3	2.0226	3.2920	2.2029	.43191	6.3666	1.7115	14.698

Elem	V_2924	Zn2138
Avge	.95708	2.2616
SDev	.00117	.0012
%RSD	.12173	.05302
#1	.95708	2.2609
#2	.95824	2.2630
#3	.95591	2.2610

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Method: EPA Sample Name: ICV Operator:
Run Time: 07/25/96 17:08:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	3.9694	.51110	.50779	.49856	4.0916	.10037	2.1344
SDev	.0108	.00605	.00331	.00244	.0042	.00009	.0024
%RSD	.27137	1.1847	.65172	.48972	.10297	.09234	.11167
#1	3.9750	.50411	.50628	.50005	4.0941	.10041	2.1366
#2	3.9570	.51438	.50552	.49987	4.0867	.10043	2.1318
#3	3.9762	.51480	.51159	.49574	4.0939	.10026	2.1348

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.10073	9.9656	.39939	1.0014	.49914	2.0027	.49620
SDev	.00073	.0106	.00044	.0004	.00102	.0118	.00405
%RSD	.72718	.10624	.11030	.04146	.20437	.58711	.81682
#1	.10085	9.9546	.39932	1.0010	.50003	2.0152	.49965
#2	.10139	9.9757	.39987	1.0018	.49803	2.0011	.49174
#3	.09994	9.9665	.39899	1.0013	.49935	1.9918	.49721

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.49814	10.008	1.0071	2.1107	1.0073	10.503	.50709
SDev	.00264	.007	.0008	.0024	.0009	.035	.00641
%RSD	.52939	.07382	.07717	.11386	.08627	.33335	1.2646
#1	.49547	10.011	1.0068	2.1114	1.0068	10.521	.50164
#2	.49821	10.000	1.0080	2.1080	1.0083	10.463	.51416
#3	.50074	10.014	1.0066	2.1127	1.0067	10.526	.50548

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50229	2.0205	.25414	9.7453	2.0682	.51177	2.0893
SDev	.00287	.0020	.00041	.0834	.0057	.00075	.0011
%RSD	.57216	.09900	.16251	.85612	.27380	.14571	.05097
#1	.50385	2.0227	.25408	9.8365	2.0715	.51152	2.0900
#2	.49898	2.0190	.25459	9.7267	2.0714	.51117	2.0881
#3	.50405	2.0197	.25377	9.6727	2.0617	.51260	2.0899

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.0004	1.0230	.4982	.5045	.5095
SDev	.0010	.0004	.0018	.0007	.0036
%RSD	.09547	.04042	.3628	.1416	.7084
#1	1.0001	1.0225	.4975	.5038	.5061
#2	1.0014	1.0231	.4968	.5047	.5091
#3	.99956	1.0233	.5002	.5052	.5133

Method: EPA Sample Name: ICB Operator:
Run Time: 07/25/96 17:13:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.00235	.00403	.00071	-.00079	.00089	-.00016	.00162
SDev	.00257	.00240	.00163	.00214	.00008	.00032	.00025
%RSD	109.17	59.434	230.89	271.35	9.2215	206.52	15.290
#1	-.00103	.00523	.00220	-.00095	.00094	.00012	.00180
#2	-.00531	.00127	.00094	.00143	.00094	-.00007	.00134
#3	-.00071	.00559	-.00103	-.00284	.00080	-.00052	.00174

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00015	.00402	-.00024	.00052	.00004	.00387	.00005
SDev	.00015	.00092	.00020	.00018	.00021	.00551	.00058
%RSD	106.46	22.827	81.778	34.480	542.84	142.32	1089.7
#1	.00003	.00301	-.00047	.00066	.00024	.00248	.00070
#2	.00009	.00480	-.00011	.00032	.00005	.00994	-.00013
#3	.00032	.00424	-.00015	.00058	-.00017	-.00081	-.00041

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00089	.00289	.00016	.00814	.00029	-.00068	.00459
SDev	.00146	.00035	.00003	.00477	.00032	.01414	.00121
%RSD	163.65	12.183	17.527	58.635	110.09	2075.9	26.412
#1	-.00067	.00310	.00018	.01342	.00067	.00869	.00497
#2	.00111	.00310	.00018	.00684	.00010	.00622	.00557
#3	.00223	.00249	.00013	.00415	.00012	-.01695	.00323

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00206	.00072	.00018	.00545	.00464	.00082	.00090
SDev	.00151	.00194	.00047	.03575	.00075	.00196	.00048
%RSD	73.201	271.00	251.66	655.74	16.078	239.47	53.732
#1	.00195	-.00058	.00015	.04448	.00458	.00058	.00142
#2	.00062	-.00022	.00066	-.02569	.00541	.00289	.00078
#3	.00363	.00295	-.00026	-.00244	.00392	-.00101	.00048

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00021	.00021	.0013	.0036	.0024
SDev	.00021	.00016	.0008	.0006	.0012
%RSD	98.675	74.379	61.85	17.49	49.05
#1	.00021	.00020	.0004	.0036	.0038
#2	.00043	.00037	.0014	.0029	.0017
#3	.00000	.00006	.0020	.0042	.0018

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Method: EPA Sample Name: CCV Operator:
Run Time: 07/25/96 17:18:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	5.1060	1.0241	1.0196	1.0207	5.2030	.12714	2.5526
SDev	.0059	.0055	.0071	.0026	.0031	.00008	.0017
%RSD	.11578	.53922	.69567	.25729	.05894	.05983	.06734
#1	5.1078	1.0179	1.0143	1.0237	5.2015	.12706	2.5536
#2	5.1109	1.0286	1.0169	1.0188	5.2011	.12720	2.5507
#3	5.0994	1.0257	1.0276	1.0196	5.2066	.12717	2.5537

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.51220	12.757	.51040	1.2768	.63452	2.5554	1.0243
SDev	.00081	.028	.00086	.0029	.00116	.0114	.0044
%RSD	.15709	.22001	.16915	.22495	.18269	.44746	.42557
#1	.51137	12.729	.50940	1.2779	.63555	2.5642	1.0294
#2	.51227	12.785	.51094	1.2789	.63326	2.5596	1.0220
#3	.51297	12.756	.51086	1.2735	.63474	2.5425	1.0217

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.0285	12.681	1.2814	2.5871	1.2767	13.193	1.0261
SDev	.0017	.018	.0019	.0113	.0041	.005	.0044
%RSD	.16659	.14455	.14894	.43609	.31792	.03432	.42834
#1	1.0290	12.660	1.2794	2.5741	1.2740	13.192	1.0210
#2	1.0299	12.693	1.2832	2.5926	1.2814	13.190	1.0285
#3	1.0266	12.690	1.2817	2.5945	1.2747	13.198	1.0286

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0334	2.5573	.63562	12.405	2.5733	1.0300	2.5773
SDev	.0054	.0024	.00130	.045	.0110	.0067	.0020
%RSD	.52115	.09545	.20457	.35921	.42782	.64892	.07867
#1	1.0356	2.5563	.63428	12.443	2.5606	1.0230	2.5750
#2	1.0272	2.5601	.63687	12.356	2.5787	1.0363	2.5783
#3	1.0373	2.5555	.63572	12.417	2.5805	1.0307	2.5787

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.2741	1.2970	1.028	1.032	1.022
SDev	.0014	.0023	.002	.003	.006
%RSD	.10849	.17427	.2031	.3277	.5641
#1	1.2725	1.2945	1.030	1.031	1.016
#2	1.2749	1.2989	1.028	1.028	1.021
#3	1.2750	1.2976	1.026	1.035	1.028

Method: EPA Sample Name: CCB Operator:
Run Time: 07/25/96 17:23:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.00564	.00446	.00099	-.00080	.00072	-.00011	.00172
SDev	.00194	.00230	.00194	.00166	.00013	.00013	.00064
%RSD	34.466	51.523	195.51	207.47	18.076	117.09	36.856
#1	-.00624	.00672	.00252	.00110	.00085	.00003	.00104
#2	-.00346	.00454	.00163	-.00156	.00074	-.00013	.00229
#3	-.00720	.00213	-.00119	-.00194	.00059	-.00023	.00184

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00005	.00319	-.00018	.00040	.00023	.00239	.00009
SDev	.00018	.00056	.00018	.00061	.00042	.00680	.00148
%RSD	381.65	17.485	101.56	151.44	181.32	284.02	1700.7
#1	-.00001	.00329	-.00001	.00014	.00034	-.00358	.00139
#2	.00011	.00369	-.00015	.00110	.00059	.00979	.00039
#3	-.00024	.00259	-.00038	-.00003	-.00023	.00096	-.00152

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00057	.00103	.00012	.00766	-.00047	-.00666	.00456
SDev	.00098	.00307	.00000	.00461	.00062	.00868	.00443
%RSD	172.97	298.09	.44388	60.253	132.02	130.32	96.967
#1	-.00048	.00248	.00013	.01267	-.00046	-.00180	.00964
#2	.00072	.00310	.00012	.00673	.00014	-.00150	.00151
#3	.00147	-.00250	.00012	.00358	-.00110	-.01668	.00254

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00111	.00026	.00002	.00079	.00388	-.00094	.00091
SDev	.00301	.00122	.00032	.05446	.00292	.00117	.00058
%RSD	271.75	461.41	2012.8	6864.6	75.242	124.39	63.702
#1	.00414	.00143	.00020	.05273	.00311	.00008	.00146
#2	.00107	.00037	.00020	.00552	.00712	-.00221	.00095
#3	-.00188	-.00101	-.00036	-.05588	.00142	-.00068	.00031

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00007	.00019	.0011	.0029	.0028
SDev	.00012	.00026	.0002	.0033	.0020
%RSD	174.41	135.42	22.44	113.6	72.71
#1	-.00022	.00004	.0008	.0066	.0046
#2	.00000	.00048	.0013	.0019	.0033
#3	-.00000	.00004	.0011	.0003	.0006

Method: EPA Sample Name: CRI Operator:
Run Time: 07/25/96 17:28:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.00105	.11046	.10940	.01897	.00027	.00957	.00016
SDev	.00312	.00774	.00333	.00097	.00005	.00021	.00026
%RSD	298.79	7.0081	3.0409	5.1210	18.881	2.1660	158.70
#1	.00234	.10152	.10630	.01926	.00033	.00981	.00015
#2	-.00165	.11479	.11292	.01789	.00022	.00947	-.00009
#3	-.00382	.11507	.10898	.01977	.00027	.00944	.00043

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01032	-.00082	.01988	.10436	.05081	.00879	.00685
SDev	.00026	.00036	.00027	.00069	.00053	.00951	.00157
%RSD	2.5498	43.673	1.3476	.66474	1.0470	108.22	22.881
#1	.01016	-.00054	.02019	.10510	.05141	.00919	.00567
#2	.01062	-.00069	.01974	.10425	.05039	.01809	.00626
#3	.01017	-.00122	.01971	.10372	.05063	-.00092	.00863

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00650	.00207	.03080	.00146	.08231	-.00406	.00850
SDev	.00143	.00035	.00009	.00096	.00080	.00258	.00240
%RSD	21.989	17.161	.29527	65.298	.97563	63.526	28.212
#1	.00657	.00186	.03090	.00204	.08261	-.00611	.01116
#2	.00504	.00186	.03073	.00198	.08140	-.00116	.00783
#3	.00790	.00247	.03078	.00036	.08292	-.00490	.00651

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01186	-.00265	.02065	.01403	.00021	.01857	.00011
SDev	.00236	.00096	.00011	.04862	.00066	.00212	.00006
%RSD	19.892	36.339	.50966	346.58	306.74	11.406	57.065
#1	.01286	-.00224	.02068	-.04211	-.00026	.02024	.00019
#2	.01355	-.00375	.02053	.04166	-.00006	.01619	.00008
#3	.00916	-.00196	.02074	.04253	.00097	.01929	.00008

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.09881	.04113	.0074	.0114	.1104
SDev	.00017	.00019	.0014	.0022	.0045
%RSD	.16770	.46202	18.75	18.92	4.087
#1	.09872	.04134	.0070	.0130	.1054
#2	.09871	.04097	.0062	.0123	.1141
#3	.09900	.04108	.0089	.0089	.1117

Method: EPA Sample Name: ICSA Operator:
Run Time: 07/25/96 17:33:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	455.91	.00655	.00148	-.00205	-.00233	.00117	-.00021
SDev	1.38	.00588	.00234	.00390	.00004	.00034	.00009
%RSD	.30203	89.745	158.54	190.13	1.6347	29.072	41.393
#1	456.68	.00649	.00341	-.00635	-.00231	.00156	-.00011
#2	454.32	.01246	.00214	.00125	-.00230	.00097	-.00027
#3	456.73	.00070	-.00113	-.00105	-.00237	.00097	-.00026

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00109	443.55	.00678	.00101	-.00209	187.36	.00163
SDev	.00053	1.14	.00017	.00054	.00032	.70	.00128
%RSD	49.064	.25614	2.5426	53.575	15.111	.37384	78.967
#1	.00063	444.18	.00693	.00039	-.00175	188.03	.00302
#2	.00097	442.23	.00682	.00133	-.00215	186.64	.00138
#3	.00167	444.22	.00659	.00133	-.00238	187.40	.00048

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00390	504.44	-.00385	.00123	.00751	-.00993	-.00804
SDev	.00218	1.95	.00012	.00022	.00039	.00641	.00181
%RSD	55.875	.38747	3.1247	17.923	5.2230	64.573	22.450
#1	.00153	506.35	-.00377	.00101	.00766	-.00537	-.00971
#2	.00437	502.44	-.00380	.00145	.00706	-.00716	-.00829
#3	.00581	504.54	-.00399	.00123	.00780	-.01725	-.00613

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00138	.02371	-.00021	.03397	.00475	-.00405	-.00169
SDev	.00645	.00137	.00063	.04577	.00158	.00174	.00017
%RSD	466.99	5.7632	303.17	134.74	33.271	42.952	9.9541
#1	-.00315	.02528	.00040	.08460	.00488	-.00373	-.00153
#2	-.00676	.02301	-.00016	-.00446	.00311	-.00250	-.00167
#3	.00577	.02283	-.00087	.02176	.00626	-.00594	-.00186

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00023	.00116	.0039	-.0029	.0038
SDev	.00046	.00024	.0010	.0048	.0032
%RSD	197.43	20.625	25.95	165.6	83.34
#1	.00027	.00122	.0028	-.0046	.0052
#2	-.00064	.00136	.0042	L-.0066	.0062
#3	-.00033	.00089	.0048	.0025	.0002

Method: EPA Sample Name: ICSAB Operator:
Run Time: 07/25/96 17:38:27
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	460.58	.62284	.60387	.09569	.54547	.48394	.00166
SDev	1.53	.00165	.00278	.00252	.00114	.00167	.00103
%RSD	.33232	.26424	.46104	2.6391	.20823	.34514	61.923
#1	458.89	.62397	.60066	.09663	.54432	.48220	.00210
#2	460.96	.62095	.60537	.09283	.54549	.48552	.00048
#3	461.88	.62360	.60558	.09762	.54659	.48411	.00238

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.93720	447.71	.48572	.47500	.54871	187.71	.04995
SDev	.00386	1.65	.00172	.00127	.00150	.62	.00025
%RSD	.41144	.36745	.35372	.26626	.27284	.32817	.50355
#1	.93306	445.87	.48376	.47354	.54742	187.02	.04966
#2	.94069	449.04	.48697	.47566	.54835	188.20	.05012
#3	.93785	448.22	.48644	.47580	.55035	187.92	.05007

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.05488	504.75	.48973	.00161	.93241	-.00290	.04160
SDev	.00435	1.65	.00137	.00048	.00282	.01248	.01240
%RSD	7.9320	.32607	.27883	29.704	.30198	430.73	29.821
#1	.05437	502.94	.48817	.00192	.92989	.00847	.03675
#2	.05947	506.16	.49070	.00187	.93545	-.00091	.05569
#3	.05080	505.15	.49033	.00106	.93191	-.01625	.03235

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04113	.02808	.21917	.01564	.00309	.09067	-.00034
SDev	.00336	.00054	.00091	.09469	.00324	.00138	.00010
%RSD	8.1591	1.9102	.41528	605.32	104.81	1.5227	30.800
#1	.04492	.02803	.21818	.12309	.00571	.09171	-.00046
#2	.03992	.02864	.21936	-.05565	-.00053	.09120	-.00030
#3	.03855	.02757	.21997	-.02051	.00409	.08911	-.00026

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.49634	1.0170	.0541	.0420	.6109
SDev	.00189	.0018	.0029	.0044	.0016
%RSD	.38048	.17804	5.399	10.52	.2639
#1	.49419	1.0149	.0537	.0429	.6091
#2	.49771	1.0183	.0572	.0459	.6113
#3	.49713	1.0177	.0515	.0372	.6123

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Method: EPA Sample Name: CCV Operator:
Run Time: 07/25/96 17:43:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	5.1158	1.0138	.99905	.99893	5.1136	.12435	2.5108
SDev	.0192	.0080	.00166	.00147	.0110	.00015	.0049
%RSD	.37595	.79339	.16565	.14760	.21459	.11794	.19509
#1	5.1379	1.0047	.99769	.99961	5.1235	.12448	2.5073
#2	5.1035	1.0168	.99857	.99995	5.1018	.12438	2.5087
#3	5.1058	1.0200	1.0009	.99724	5.1155	.12419	2.5164

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.50080	12.602	.50012	1.2503	.62182	2.5201	1.0057
SDev	.00107	.028	.00081	.0013	.00172	.0075	.0025
%RSD	.21405	.22357	.16095	.10182	.27729	.29842	.24816
#1	.50082	12.575	.49929	1.2488	.62308	2.5243	1.0054
#2	.50187	12.632	.50089	1.2508	.61985	2.5246	1.0084
#3	.49972	12.599	.50018	1.2512	.62252	2.5114	1.0034

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.0062	12.336	1.2571	2.5145	1.2478	13.073	1.0085
SDev	.0058	.013	.0014	.0042	.0029	.035	.0028
%RSD	.57894	.10523	.11418	.16540	.23133	.27044	.27531
#1	1.0007	12.324	1.2555	2.5106	1.2448	13.110	1.0053
#2	1.0123	12.335	1.2582	2.5189	1.2482	13.039	1.0104
#3	1.0056	12.350	1.2577	2.5140	1.2505	13.069	1.0097

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0069	2.5172	.62591	12.347	2.5170	1.0105	2.5383
SDev	.0045	.0033	.00040	.058	.0028	.0046	.0021
%RSD	.44792	.13250	.06472	.47159	.11126	.45572	.08198
#1	1.0026	2.5201	.62602	12.378	2.5177	1.0111	2.5379
#2	1.0116	2.5136	.62547	12.384	2.5139	1.0056	2.5364
#3	1.0065	2.5181	.62626	12.280	2.5193	1.0147	2.5405

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.2523	1.2692	1.007	1.008	1.005
SDev	.0007	.0032	.004	.004	.004
%RSD	.05323	.25162	.4453	.3785	.3636
#1	1.2525	1.2655	1.003	1.004	1.001
#2	1.2529	1.2715	1.012	1.012	1.005
#3	1.2516	1.2705	1.006	1.008	1.008

Method: EPA Sample Name: CCB Operator:
Run Time: 07/25/96 17:48:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	.00398	.00196	-.00038	-.00057	.00069	-.00020	.00084
SDev	.00355	.00241	.00154	.00051	.00009	.00012	.00059
%RSD	89.188	123.18	408.74	89.555	13.001	59.049	69.364
#1	.00795	.00474	.00062	-.00085	.00074	-.00007	.00152
#2	.00288	.00041	-.00216	.00002	.00074	-.00023	.00047
#3	.00111	.00073	.00041	-.00090	.00058	-.00031	.00054

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00005	.02397	-.00012	.00035	.00032	.01180	.00093
SDev	.00014	.00213	.00020	.00039	.00039	.00368	.00278
%RSD	265.90	8.9057	168.51	113.65	121.64	31.240	299.09
#1	.00017	.02412	-.00033	.00031	.00050	.01571	-.00224
#2	-.00010	.02602	-.00011	-.00003	.00059	.00840	.00297
#3	.00009	.02176	.00007	.00075	-.00013	.01128	.00205

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00147	.01761	.00012	.00733	-.00046	.00100	.00310
SDev	.00058	.00093	.00011	.00424	.00059	.00726	.00322
%RSD	39.280	5.3072	85.504	57.813	127.69	725.35	103.85
#1	.00167	.01743	.00013	.01212	.00017	.00683	.00676
#2	.00082	.01862	.00023	.00583	-.00055	.00330	.00074
#3	.00193	.01678	.00002	.00405	-.00100	-.00713	.00178

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00116	.00010	.00037	.02433	.00298	.00134	.00090
SDev	.00175	.00101	.00022	.02372	.00189	.00134	.00045
%RSD	150.99	975.51	58.814	97.499	63.300	99.365	50.514
#1	.00315	-.00059	.00030	.05023	.00493	.00288	.00140
#2	.00049	.00126	.00062	.01910	.00116	.00048	.00075
#3	-.00016	-.00036	.00020	.00366	.00285	.00067	.00053

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00015	.00031	.0020	.0025	.0011
SDev	.00025	.00009	.0008	.0022	.0016
%RSD	169.81	29.807	42.36	89.49	155.7
#1	.00000	.00040	.0010	.0050	.0027
#2	.00043	.00030	.0023	.0012	-.0006
#3	.00000	.00022	.0026	.0011	.0012

Method: EPA Sample Name: PBW Operator:
Run Time: 07/25/96 17:53:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.00592	.00150	-.00215	-.00319	.00025	-.00021	.00031
SDev	.00405	.00206	.00171	.00211	.00013	.00018	.00072
%RSD	68.323	137.31	79.292	66.161	51.350	88.821	235.17
#1	-.00174	.00133	-.00025	-.00166	.00039	-.00034	.00107
#2	-.00982	.00364	-.00265	-.00232	.00017	.00000	-.00035
#3	-.00620	-.00047	-.00355	-.00560	.00017	-.00028	.00020

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00016	.01442	-.00029	.00029	.00030	.00529	-.00098
SDev	.00029	.00209	.00080	.00091	.00037	.01694	.00071
%RSD	183.30	14.472	277.12	307.98	123.40	320.15	71.671
#1	.00012	.01678	.00061	.00130	.00073	.02140	-.00047
#2	-.00045	.01367	-.00092	-.00047	.00007	.00686	-.00070
#3	-.00014	.01281	-.00056	.00006	.00011	-.01238	-.00179

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00084	.00654	.00004	.00112	-.00040	.00679	.00277
SDev	.00119	.00549	.00009	.00088	.00093	.01524	.00175
%RSD	141.24	83.928	220.87	78.474	231.09	224.29	63.343
#1	.00053	.01278	.00014	.00208	.00064	.02439	.00105
#2	.00215	.00248	-.00003	.00037	-.00115	-.00228	.00271
#3	-.00016	.00435	.00002	.00090	-.00070	-.00173	.00455

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00285	.00180	.00022	.04368	.00272	.00091	.00007
SDev	.00137	.00417	.00096	.10429	.00178	.00290	.00028
%RSD	48.264	231.04	438.16	238.74	65.458	318.96	389.58
#1	.00438	.00661	.00128	.15462	.00467	.00276	.00039
#2	.00242	-.00079	-.00059	.02879	.00234	-.00243	-.00017
#3	.00174	-.00041	-.00003	-.05236	.00117	.00239	.00000

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00001	-.00002	.0009	.0035	-.0003
SDev	.00059	.00015	.0010	.0004	.0014
%RSD	4723.3	609.48	106.0	11.75	478.3
#1	.00069	-.00016	.0009	.0040	.0009
#2	-.00043	-.00004	.0019	.0032	.0001
#3	-.00022	.00013	-.0000	.0033	-.0019

Method: EPA Sample Name: LCSW Operator:
Run Time: 07/25/96 17:58:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	2.1178	.25337	.25213	.25109	2.1583	.05060	1.0541
SDev	.0028	.00359	.00211	.00270	.0030	.00012	.0030
%RSD	.13139	1.4162	.83858	1.0763	.14028	.22838	.28400
#1	2.1167	.24934	.24982	.24797	2.1592	.05072	1.0547
#2	2.1158	.25457	.25261	.25251	2.1549	.05049	1.0509
#3	2.1210	.25621	.25396	.25278	2.1608	.05059	1.0568

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.05247	5.2690	.21002	.52492	.26169	1.0478	.25512
SDev	.00027	.0211	.00068	.00169	.00056	.0196	.00189
%RSD	.51434	.40091	.32221	.32296	.21301	1.8733	.74245
#1	.05274	5.2446	.20924	.52305	.26217	1.0281	.25419
#2	.05220	5.2822	.21038	.52635	.26108	1.0673	.25388
#3	.05247	5.2802	.21044	.52537	.26182	1.0479	.25730

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.25112	5.1391	.52961	1.0517	.51939	5.9651	.24423
SDev	.00155	.0073	.00106	.0080	.00169	.0119	.00320
%RSD	.61545	.14207	.20053	.76162	.32445	.19913	1.3101
#1	.24970	5.1307	.52843	1.0425	.51747	5.9777	.24627
#2	.25089	5.1438	.52990	1.0556	.52061	5.9541	.24054
#3	.25277	5.1427	.53049	1.0570	.52009	5.9634	.24587

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24337	1.0204	.11101	5.2345	1.0533	.25480	1.0731
SDev	.00263	.0004	.00014	.0595	.0037	.00280	.0013
%RSD	1.0791	.03444	.12840	1.1366	.35526	1.0989	.12143
#1	.24630	1.0202	.11093	5.2892	1.0496	.25739	1.0723
#2	.24254	1.0208	.11117	5.2431	1.0532	.25183	1.0724
#3	.24125	1.0201	.11092	5.1711	1.0571	.25518	1.0746

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.52554	.54128	.2533	.2443	.2532
SDev	.00144	.00176	.0016	.0023	.0026
%RSD	.27370	.32523	.6387	.9483	1.028
#1	.52389	.53928	.2520	.2470	.2503
#2	.52630	.54192	.2527	.2425	.2539
#3	.52645	.54262	.2551	.2435	.2554

Method: EPA Sample Name: 239995 Operator:
Run Time: 07/25/96 18:03:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.01251	.00224	-.00090	-.00137	.00037	-.00026	.00046
SDev	.00190	.00151	.00114	.00204	.00010	.00018	.00100
%RSD	15.149	67.130	127.12	149.04	27.169	69.285	218.93
#1	-.01252	.00257	.00038	.00084	.00047	-.00005	.00081
#2	-.01441	.00355	-.00127	-.00177	.00038	-.00039	.00123
#3	-.01062	.00060	-.00180	-.00318	.00027	-.00034	-.00067

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00018	.07195	-.00001	.00024	.00044	.00813	-.00274
SDev	.00004	.00160	.00010	.00023	.00037	.00603	.00136
%RSD	24.651	2.2210	1242.2	95.801	82.726	74.156	49.742
#1	-.00023	.07337	.00011	.00006	.00087	.01011	-.00211
#2	-.00017	.07226	-.00007	.00049	.00020	.01291	-.00431
#3	-.00014	.07022	-.00007	.00015	.00027	.00136	-.00180

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00206	.00554	.00031	.00335	-.00015	-.01221	.00621
SDev	.00122	.00063	.00003	.00153	.00053	.00513	.00254
%RSD	59.382	11.271	9.9397	45.618	351.80	42.054	40.978
#1	.00291	.00553	.00033	.00491	.00042	-.01370	.00336
#2	.00066	.00617	.00033	.00328	-.00062	-.00650	.00824
#3	.00262	.00492	.00028	.00186	-.00026	-.01644	.00703

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00164	.04009	.00010	-.08784	.00139	-.00065	.00039
SDev	.00145	.00182	.00016	.02964	.00114	.00076	.00034
%RSD	88.280	4.5491	155.02	33.740	82.405	116.21	86.759
#1	-.00236	.03798	.00001	-.05611	.00236	-.00147	.00077
#2	.00003	.04119	.00029	-.09258	.00013	-.00054	.00030
#3	-.00260	.04108	.00001	-.11481	.00166	.00004	.00011

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00035	.00358	.0011	.0016	.0008
SDev	.00013	.00013	.0013	.0016	.0011
%RSD	35.671	3.5396	112.8	101.2	133.6
#1	.00042	.00351	.0020	.0002	.0018
#2	.00042	.00373	-.0003	.0034	.0010
#3	.00021	.00352	.0018	.0013	-.0004

Method: EPA Sample Name: 239995D Operator:
Run Time: 07/25/96 18:07:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.01712	.00256	-.00000	-.00148	.00020	-.00040	-.00037
SDev	.00377	.00086	.00160	.00127	.00003	.00021	.00024
%RSD	22.022	33.637	92949.	85.520	14.432	53.055	64.947
#1	-.01520	.00157	.00175	-.00081	.00022	-.00016	-.00019
#2	-.02146	.00318	-.00136	-.00295	.00022	-.00049	-.00065
#3	-.01469	.00291	-.00040	-.00069	.00017	-.00055	-.00028

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00006	.06467	-.00023	.00044	.00016	.00299	-.00090
SDev	.00016	.00118	.00020	.00005	.00029	.00905	.00259
%RSD	242.91	1.8308	87.086	11.249	182.17	302.82	287.14
#1	-.00009	.06353	-.00012	.00041	.00028	-.00427	-.00372
#2	.00010	.06457	-.00012	.00041	-.00017	.01313	-.00034
#3	-.00021	.06590	-.00047	.00050	.00038	.00011	.00136

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00170	.00348	.00020	.00068	-.00002	-.00192	.00373
SDev	.00063	.00246	.00011	.00033	.00021	.00714	.00103
%RSD	36.728	70.582	53.247	48.990	959.44	372.68	27.612
#1	.00229	.00490	.00033	.00081	-.00002	.00633	.00378
#2	.00104	.00490	.00012	.00091	.00019	-.00600	.00267
#3	.00178	.00064	.00017	.00030	-.00023	-.00607	.00473

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00164	.03881	-.00005	-.01984	.00041	.00095	.00000
SDev	.00070	.00065	.00017	.10796	.00101	.00148	.00014
%RSD	42.671	1.6774	331.60	544.15	247.18	156.22	6551.2
#1	-.00182	.03837	.00015	.08935	-.00075	-.00022	.00016
#2	-.00223	.03955	-.00013	-.12653	.00108	.00261	-.00003
#3	-.00087	.03849	-.00017	-.02234	.00090	.00045	-.00012

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00006	.00182	.0015	.0008	.0015
SDev	.00012	.00006	.0007	.0008	.0008
%RSD	198.73	3.1492	46.21	101.2	53.92
#1	.00020	.00186	.0009	.0007	.0023
#2	-.00001	.00175	.0013	.0000	.0008
#3	-.00001	.00185	.0023	.0016	.0013

Method: EPA Sample Name: 239995L Operator:
Run Time: 07/25/96 18:12:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.01240	-.00042	.00008	-.00146	.00010	-.00040	.00047
SDev	.00121	.00036	.00077	.00266	.00003	.00010	.00017
%RSD	9.7700	86.054	1016.4	181.67	28.801	23.943	35.910
#1	-.01146	-.00038	-.00008	-.00064	.00007	-.00029	.00033
#2	-.01198	-.00008	.00091	.00069	.00012	-.00048	.00066
#3	-.01377	-.00079	-.00061	-.00444	.00012	-.00042	.00043

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00006	.02427	-.00011	.00023	.00085	.00450	-.00190
SDev	.00034	.00055	.00024	.00009	.00006	.00173	.00211
%RSD	580.07	2.2805	223.90	36.796	6.4586	38.376	111.06
#1	.00045	.02382	-.00002	.00032	.00091	.00251	.00034
#2	-.00014	.02489	.00007	.00023	.00081	.00543	-.00385
#3	-.00013	.02410	-.00038	.00015	.00082	.00557	-.00218

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00002	.00475	.00007	.00052	-.00056	.00258	.00297
SDev	.00188	.00129	.00000	.00028	.00017	.00141	.00136
%RSD	10704.	27.177	1.0980	52.566	31.462	54.616	45.850
#1	-.00117	.00620	.00007	.00037	-.00069	.00315	.00420
#2	.00218	.00372	.00007	.00084	-.00036	.00097	.00151
#3	-.00096	.00433	.00007	.00036	-.00062	.00360	.00319

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00167	.01057	.00039	-.01922	.00149	-.00022	.00005
SDev	.00163	.00068	.00014	.08798	.00078	.00228	.00011
%RSD	97.649	6.4069	36.025	457.79	52.769	1032.3	235.25
#1	.00064	.01077	.00053	-.05477	.00233	-.00172	-.00000
#2	.00082	.01113	.00025	-.08386	.00136	-.00135	.00017
#3	.00355	.00982	.00039	.08098	.00077	.00241	-.00003

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00021	.00054	.0001	.0028	.0006
SDev	.00022	.00021	.0008	.0012	.0006
%RSD	101.18	38.400	1194.	43.94	111.2
#1	.00021	.00030	.0001	.0025	.0005
#2	.00043	.00067	.0008	.0017	.0012
#3	-.00000	.00065	-.0007	.0041	-.0000

Method: EPA Sample Name: 239995S Operator:
Run Time: 07/25/96 18:17:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	2.0516	.51701	.51139	.03949	2.1177	.05017	1.0090
SDev	.0079	.00250	.00284	.00120	.0049	.00030	.0017
%RSD	.38353	.48274	.55561	3.0301	.23291	.60798	.16979
#1	2.0531	.51849	.51181	.03890	2.1211	.05052	1.0110
#2	2.0585	.51413	.51401	.03870	2.1199	.04994	1.0079
#3	2.0430	.51840	.50837	.04086	2.1120	.05006	1.0081

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.05098	5.2018	.20605	.51236	.25503	1.0198	.02264
SDev	.00057	.0080	.00054	.00080	.00043	.0055	.00146
%RSD	1.1163	.15361	.26266	.15619	.16994	.53586	6.4464
#1	.05041	5.2062	.20665	.51328	.25521	1.0261	.02329
#2	.05155	5.2067	.20591	.51195	.25535	1.0164	.02366
#3	.05096	5.1926	.20559	.51185	.25454	1.0168	.02097

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.02152	5.0901	.51945	1.0187	.51494	5.7484	.00815
SDev	.00200	.0064	.00114	.0006	.00242	.0256	.00169
%RSD	9.2964	.12659	.21876	.05487	.46911	.44587	20.718
#1	.01928	5.0974	.52051	1.0192	.51672	5.7432	.00641
#2	.02312	5.0878	.51960	1.0190	.51591	5.7762	.00979
#3	.02216	5.0851	.51825	1.0181	.51219	5.7258	.00826

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01206	1.0656	.05366	5.1004	1.0359	.05049	1.0526
SDev	.00145	.0025	.00057	.0821	.0040	.00294	.0025
%RSD	12.060	.23472	1.0613	1.6106	.38981	5.8268	.23481
#1	.01351	1.0684	.05426	5.1356	1.0373	.04825	1.0541
#2	.01207	1.0648	.05358	5.1590	1.0391	.04940	1.0540
#3	.01060	1.0635	.05313	5.0065	1.0314	.05382	1.0498

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.51741	.53033	.0227	.0114	.5139
SDev	.00077	.00087	.0014	.0008	.0014
%RSD	.14892	.16412	5.939	7.146	.2620
#1	.51779	.53131	.0214	.0118	.5147
#2	.51791	.52965	.0241	.0120	.5147
#3	.51652	.53003	.0226	.0105	.5124

Method: EPA Sample Name: PBS Operator:
Run Time: 07/25/96 18:22:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.01901	.00114	-.00089	-.00235	.00027	-.00014	.00040
SDev	.00203	.00255	.00113	.00133	.00000	.00039	.00036
%RSD	10.700	223.16	127.20	56.473	.20137	275.31	92.308
#1	-.01671	.00346	-.00102	-.00343	.00027	.00031	.00081
#2	-.02059	.00157	-.00195	-.00274	.00027	-.00033	.00012
#3	-.01973	-.00160	.00030	-.00087	.00027	-.00041	.00025

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00005	.01433	-.00009	.00018	.00032	.00456	.00029
SDev	.00011	.00072	.00041	.00005	.00013	.00952	.00274
%RSD	218.42	5.0205	435.11	29.059	41.563	208.63	931.96
#1	.00005	.01480	-.00015	.00014	.00046	.01432	-.00066
#2	-.00017	.01351	-.00047	.00015	.00021	-.00471	-.00185
#3	-.00003	.01470	.00034	.00023	.00027	.00409	.00339

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00014	.00063	.00003	.00345	.00014	.00263	.00172
SDev	.00158	.00283	.00006	.00211	.00010	.00572	.00057
%RSD	1164.8	451.32	179.05	60.986	72.438	217.48	32.979
#1	-.00097	.00372	.00007	.00587	.00021	.00916	.00220
#2	.00195	-.00184	-.00004	.00245	.00002	-.00145	.00109
#3	-.00057	.00001	.00007	.00203	.00019	.00018	.00186

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00086	.00192	.00018	.01719	.00258	.00015	.00034
SDev	.00167	.00139	.00023	.07579	.00213	.00218	.00031
%RSD	193.57	72.761	126.70	441.02	82.465	1502.2	90.210
#1	-.00100	.00227	.00015	.10228	.00504	.00250	.00070
#2	.00134	.00038	-.00003	-.04308	.00142	-.00027	.00019
#3	.00224	.00310	.00043	-.00764	.00129	-.00180	.00014

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00007	-.00008	.0009	.0018	.0004
SDev	.00025	.00025	.0009	.0010	.0006
%RSD	358.10	318.56	98.90	56.88	142.4
#1	.00022	.00020	-.0001	.0007	.0011
#2	-.00022	-.00017	.0013	.0019	-.0001
#3	.00021	-.00026	.0014	.0028	.0003

Method: EPA Sample Name: LCSS Operator:
Run Time: 07/25/96 18:27:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	28.956	.53618	.52171	.39744	.51571	.73090	.27038
SDev	.091	.00433	.00154	.00354	.00191	.00202	.00082
%RSD	.31357	.80710	.29538	.89154	.36987	.27686	.30178
#1	29.040	.54057	.52349	.40067	.51782	.73276	.26973
#2	28.968	.53604	.52086	.39365	.51522	.72875	.27130
#3	28.860	.53192	.52078	.39799	.51411	.73118	.27012

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.59759	11.651	.51109	.91961	.54900	48.836	.40846
SDev	.00178	.026	.00141	.00297	.00194	.095	.00567
%RSD	.29758	.21947	.27621	.32307	.35278	.19363	1.3873
#1	.59896	11.664	.51234	.92238	.55108	48.919	.41442
#2	.59558	11.622	.50956	.91647	.54867	48.733	.40314
#3	.59823	11.668	.51136	.91997	.54725	48.855	.40781

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.40619	8.8652	.99054	.44599	.83026	10.200	.48707
SDev	.00205	.0176	.00271	.00136	.00229	.054	.00549
%RSD	.50396	.19819	.27327	.30573	.27618	.52512	1.1277
#1	.40451	8.8800	.99312	.44442	.83253	10.239	.48117
#2	.40847	8.8458	.98772	.44671	.83029	10.223	.48800
#3	.40560	8.8699	.99079	.44685	.82794	10.139	.49204

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49076	10.357	.35973	.92685	.56107	.80092	1.8839
SDev	.00485	.013	.00087	.01801	.00226	.00645	.0053
%RSD	.98836	.12207	.24156	1.9430	.40257	.80486	.27902
#1	.48550	10.369	.36064	.93580	.55977	.79438	1.8899
#2	.49171	10.344	.35891	.93863	.55976	.80727	1.8803
#3	.49506	10.358	.35964	.90612	.56368	.80112	1.8815

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.37119	.68910	.4078	.4902	.5272
SDev	.00074	.00145	.0008	.0051	.0024
%RSD	.19879	.20966	.1893	1.034	.4586
#1	.37203	.68954	.4086	.4847	.5298
#2	.37066	.68748	.4075	.4912	.5265
#3	.37088	.69027	.4072	.4947	.5251

Method: EPA Sample Name: 239987 Operator:
Run Time: 07/25/96 18:32:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	74.176	.00657	.00588	.06780	2.0175	.00762	.11081
SDev	.087	.00122	.00230	.00096	.0013	.00041	.00140
%RSD	.11688	18.599	39.106	1.4095	.06603	5.4026	1.2595
#1	74.254	.00725	.00835	.06745	2.0184	.00810	.11234
#2	74.191	.00729	.00379	.06888	2.0181	.00742	.10960
#3	74.083	.00516	.00552	.06706	2.0159	.00735	.11051

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.05078	198.56	.25739	.01940	.61118	53.799	1.2558
SDev	.00070	.19	.00038	.00048	.00078	.049	.0013
%RSD	1.3841	.09567	.14804	2.4716	.12794	.09111	.10227
#1	.05159	198.73	.25764	.01983	.61185	53.856	1.2551
#2	.05037	198.36	.25695	.01888	.61137	53.769	1.2550
#3	.05037	198.61	.25758	.01948	.61032	53.772	1.2573

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.2355	58.191	6.0149	.00621	.13232	5.1815	.00689
SDev	.0013	.064	.0033	.00063	.00085	.0054	.00365
%RSD	.10182	.10926	.05553	10.084	.63921	.10443	53.007
#1	1.2345	58.260	6.0150	.00692	.13143	5.1785	.00401
#2	1.2369	58.135	6.0115	.00575	.13311	5.1878	.01099
#3	1.2349	58.178	6.0182	.00595	.13243	5.1782	.00566

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00734	14.197	.01340	4.2929	.15248	.00152	3.2471
SDev	.00314	.012	.00052	.1137	.00117	.00162	.0012
%RSD	42.776	.08405	3.8583	2.6482	.76504	107.06	.03757
#1	.00583	14.211	.01387	4.3910	.15264	.00337	3.2485
#2	.01095	14.193	.01284	4.3195	.15124	.00083	3.2464
#3	.00524	14.188	.01350	4.1683	.15356	.00035	3.2464

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.18117	2.9696	1.243	.0078	.0068
SDev	.00011	.0015	.001	.0033	.0016
%RSD	.06000	.05142	.0663	41.67	24.18
#1	.18119	2.9708	1.242	.0059	.0086
#2	.18105	2.9679	1.244	.0116	.0056
#3	.18127	2.9703	1.243	.0060	.0061

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Method: EPA Sample Name: 239987D Operator:
Run Time: 07/25/96 18:37:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	74.248	.00404	.00487	.06931	2.0202	.00725	.11168
SDev	.111	.00254	.00078	.00170	.0020	.00006	.00126
%RSD	.14910	62.857	16.109	2.4534	.10026	.81943	1.1246
#1	74.120	.00441	.00555	.06766	2.0180	.00732	.11074
#2	74.321	.00636	.00401	.06920	2.0220	.00723	.11310
#3	74.302	.00133	.00504	.07106	2.0205	.00721	.11119

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.05044	198.11	.25607	.01897	.61185	53.704	1.2607
SDev	.00074	.09	.00041	.00020	.00092	.057	.0018
%RSD	1.4588	.04489	.15907	1.0471	.14970	.10643	.14570
#1	.05058	198.02	.25560	.01919	.61082	53.653	1.2629
#2	.05110	198.19	.25635	.01891	.61257	53.766	1.2596
#3	.04965	198.12	.25624	.01881	.61215	53.694	1.2598

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.2391	58.101	6.0321	.00539	.13187	5.1988	.00280
SDev	.0025	.054	.0060	.00078	.00052	.0082	.00227
%RSD	.20156	.09309	.09877	14.468	.39629	.15715	81.258
#1	1.2413	58.059	6.0254	.00560	.13214	5.1902	.00067
#2	1.2398	58.162	6.0367	.00605	.13126	5.2065	.00519
#3	1.2364	58.081	6.0343	.00453	.13220	5.1998	.00253

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00677	14.217	.01336	4.3090	.15106	-.00117	3.2492
SDev	.00248	.017	.00016	.0197	.00031	.00181	.0035
%RSD	36.549	.11973	1.1805	.45602	.20238	154.80	.10799
#1	.00945	14.197	.01343	4.3296	.15140	.00057	3.2458
#2	.00630	14.226	.01348	4.3069	.15081	-.00104	3.2528
#3	.00457	14.228	.01318	4.2905	.15097	-.00303	3.2490

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.18106	2.9591	1.247	.0061	.0052
SDev	.00064	.0020	.002	.0014	.0007
%RSD	.35323	.06613	.1681	22.65	13.42
#1	.18114	2.9603	1.249	.0072	.0058
#2	.18166	2.9600	1.247	.0066	.0054
#3	.18039	2.9568	1.245	.0045	.0045

Method: EPA Sample Name: CCV Operator:
Run Time: 07/25/96 18:42:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	5.0630	1.0152	.99559	.99392	5.1014	.12416	2.5087
SDev	.0128	.0006	.00314	.00022	.0082	.00026	.0066
%RSD	.25230	.06052	.31536	.02247	.16167	.21365	.26418
#1	5.0682	1.0152	.99617	.99387	5.1003	.12393	2.5062
#2	5.0724	1.0159	.99220	.99416	5.1102	.12409	2.5162
#3	5.0485	1.0146	.99840	.99372	5.0938	.12445	2.5038

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.49645	12.613	.50140	1.2514	.61888	2.4987	1.0155
SDev	.00205	.030	.00071	.0012	.00130	.0077	.0038
%RSD	.41275	.23864	.14150	.09422	.20974	.30859	.37576
#1	.49598	12.595	.50084	1.2506	.61890	2.4985	1.0199
#2	.49468	12.596	.50117	1.2509	.62017	2.4911	1.0134
#3	.49870	12.648	.50220	1.2528	.61757	2.5066	1.0132

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.99892	12.379	1.2665	2.4774	1.2444	13.063	1.0191
SDev	.00146	.009	.0021	.0121	.0034	.049	.0020
%RSD	.14662	.07006	.16704	.49039	.27571	.37402	.19412
#1	.99975	12.369	1.2655	2.4648	1.2405	13.078	1.0182
#2	.99723	12.383	1.2652	2.4783	1.2466	13.103	1.0176
#3	.99977	12.384	1.2690	2.4891	1.2462	13.009	1.0213

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0038	2.5376	.62928	12.365	2.5182	1.0084	2.5570
SDev	.0041	.0028	.00092	.064	.0031	.0043	.0017
%RSD	.41267	.11098	.14598	.51844	.12313	.42336	.06511
#1	1.0057	2.5386	.62906	12.293	2.5148	1.0119	2.5552
#2	.99902	2.5397	.62848	12.415	2.5209	1.0097	2.5573
#3	1.0066	2.5344	.63028	12.387	2.5190	1.0036	2.5585

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.2597	1.2641	1.005	1.010	1.003
SDev	.0008	.0021	.002	.003	.002
%RSD	.06010	.16996	.1925	.3246	.1887
#1	1.2589	1.2620	1.007	1.011	1.003
#2	1.2599	1.2639	1.003	1.006	1.001
#3	1.2603	1.2663	1.005	1.012	1.004

Method: EPA Sample Name: CCB Operator:
Run Time: 07/25/96 18:47:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.02305	.00516	-.00057	.00042	.00077	-.00055	.00145
SDev	.00206	.00385	.00093	.00045	.00018	.00003	.00029
%RSD	8.9515	74.656	163.90	107.05	23.473	5.3901	19.903
#1	-.02173	.00534	-.00001	.00016	.00094	-.00052	.00173
#2	-.02198	.00122	-.00005	.00095	.00078	-.00055	.00115
#3	-.02542	.00892	-.00164	.00017	.00058	-.00058	.00147

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00010	.02802	.00004	.00041	.00084	.00510	.00081
SDev	.00016	.00069	.00007	.00030	.00029	.00971	.00261
%RSD	166.07	2.4544	175.80	73.304	34.202	190.54	321.22
#1	.00018	.02833	.00011	.00075	.00109	.01579	.00322
#2	.00021	.02849	.00002	.00023	.00091	-.00318	.00118
#3	-.00009	.02723	-.00002	.00023	.00053	.00269	-.00197

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00024	.00700	.00044	.00679	-.00034	-.00475	.00441
SDev	.00163	.00420	.00005	.00440	.00062	.00271	.00342
%RSD	680.23	60.038	12.172	64.716	183.54	57.040	77.450
#1	.00137	.01173	.00049	.01168	-.00052	-.00784	.00215
#2	-.00163	.00371	.00044	.00552	.00036	-.00274	.00834
#3	.00098	.00555	.00039	.00317	-.00085	-.00368	.00274

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00019	.00450	.00037	.03403	.00396	.00028	.00109
SDev	.00364	.00138	.00039	.03868	.00098	.00024	.00077
%RSD	1935.3	30.724	105.58	113.64	24.653	85.823	70.385
#1	.00305	.00602	.00057	-.00579	.00501	.00031	.00189
#2	-.00413	.00414	.00062	.07145	.00379	.00003	.00102
#3	.00051	.00333	-.00008	.03643	.00308	.00050	.00036

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.00025	.0011	.0020	.0020
SDev	.00049	.00005	.0014	.0014	.0009
%RSD	723.50	20.831	128.4	68.41	45.11
#1	.00064	.00028	.0026	.0034	.0024
#2	-.00022	.00028	-.0000	.0007	.0009
#3	-.00022	.00019	.0007	.0019	.0025

Method: EPA Sample Name: 239987L Operator:
Run Time: 07/25/96 18:52:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	14.690	.00173	.00115	.01339	.40218	.00115	.02257
SDev	.015	.00215	.00109	.00055	.00068	.00020	.00019
%RSD	.10038	124.24	94.142	4.1359	.16935	17.500	.85966
#1	14.706	.00106	.00171	.01402	.40294	.00138	.02270
#2	14.677	.00415	.00185	.01317	.40162	.00100	.02266
#3	14.688	-.00000	-.00010	.01298	.40200	.00108	.02235

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01019	41.676	.05249	.00442	.11948	11.050	.25807
SDev	.00037	.090	.00014	.00027	.00006	.033	.00268
%RSD	3.6369	.21493	.26782	6.1706	.04652	.29807	1.0396
#1	.00992	41.656	.05238	.00423	.11942	11.069	.26056
#2	.01061	41.774	.05265	.00431	.11953	11.069	.25842
#3	.01004	41.599	.05243	.00473	.11949	11.012	.25523

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.25397	11.634	1.2544	.00225	.02727	.94724	.00496
SDev	.00047	.008	.0018	.00057	.00067	.00835	.00198
%RSD	.18404	.06780	.14326	25.436	2.4471	.88140	40.017
#1	.25430	11.632	1.2547	.00244	.02725	.95687	.00694
#2	.25343	11.642	1.2560	.00269	.02661	.94197	.00496
#3	.25416	11.627	1.2525	.00160	.02794	.94289	.00297

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00073	2.8387	.00278	.75154	.03139	.00064	.65797
SDev	.00055	.0020	.00026	.07291	.00077	.00082	.00024
%RSD	75.149	.06933	9.2635	9.7019	2.4535	127.62	.03724
#1	.00117	2.8377	.00274	.79949	.03227	-.00025	.65825
#2	.00012	2.8374	.00306	.66764	.03083	.00080	.65781
#3	.00091	2.8409	.00255	.78751	.03107	.00136	.65785

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.03662	.62466	.2561	.0028	.0020
SDev	.00003	.00145	.0009	.0008	.0014
%RSD	.09090	.23132	.3702	29.76	67.42
#1	.03665	.62526	.2571	.0037	.0021
#2	.03662	.62570	.2559	.0024	.0033
#3	.03658	.62301	.2553	.0022	.0006

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Method: EPA Sample Name: 2399875 Operator:
Run Time: 07/25/96 18:57:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	67.037	.50893	.49706	.16253	3.8950	.05390	1.0673
SDev	.057	.00374	.00229	.00140	.0056	.00019	.0023
%RSD	.08429	.73384	.46006	.86407	.14338	.35183	.21171
#1	67.058	.50551	.49445	.16414	3.9004	.05411	1.0684
#2	66.974	.50837	.49798	.16154	3.8892	.05381	1.0647
#3	67.081	.51292	.49874	.16192	3.8953	.05377	1.0689

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.09023	165.52	.56019	.50342	.83679	89.834	1.3753
SDev	.00014	.22	.00105	.00081	.00159	.068	.0038
%RSD	.15905	.13443	.18787	.16060	.18960	.07541	.27867
#1	.09017	165.32	.55917	.50251	.83713	89.761	1.3747
#2	.09014	165.76	.56127	.50406	.83506	89.894	1.3718
#3	.09040	165.50	.56012	.50369	.83817	89.849	1.3794

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.3548	46.675	5.1163	.96166	.64040	9.5414	.01309
SDev	.0027	.029	.0042	.00493	.00032	.0193	.00310
%RSD	.19694	.06204	.08235	.51274	.05042	.20268	23.710
#1	1.3528	46.642	5.1118	.95598	.64006	9.5544	.01088
#2	1.3537	46.687	5.1202	.96432	.64045	9.5191	.01176
#3	1.3578	46.697	5.1168	.96470	.64070	9.5505	.01664

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01796	10.218	.05430	8.2513	1.1416	.04596	3.4134
SDev	.00196	.022	.00019	.0484	.0046	.00048	.0007
%RSD	10.909	.21711	.35263	.58667	.40572	1.0356	.02087
#1	.01643	10.205	.05441	8.2579	1.1363	.04548	3.4139
#2	.02017	10.207	.05441	8.1999	1.1447	.04644	3.4126
#3	.01728	10.244	.05408	8.2960	1.1438	.04597	3.4137

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.74082	3.3642	1.362	.0170	.5017
SDev	.00037	.0030	.003	.0015	.0027
%RSD	.05004	.09017	.2177	8.898	.5356
#1	.74044	3.3607	1.361	.0152	.4988
#2	.74118	3.3663	1.360	.0180	.5021
#3	.74085	3.3655	1.366	.0176	.5041

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Method: EPA Sample Name: 239988 Operator:
Run Time: 07/25/96 19:02:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	29.761	.00216	.00226	.01075	.25116	.00136	.02753
SDev	.020	.00416	.00203	.00157	.00039	.00003	.00023
%RSD	.06881	192.99	89.924	14.600	.15403	2.4515	.83265
#1	29.778	-.00264	.00114	.01222	.25161	.00139	.02735
#2	29.766	.00426	.00461	.00910	.25098	.00137	.02778
#3	29.738	.00484	.00103	.01094	.25091	.00132	.02744

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00592	9.1720	.07004	.03474	.14000	55.415	.24221
SDev	.00025	.0202	.00017	.00030	.00012	.080	.00249
%RSD	4.2444	.22057	.24053	.87462	.08290	.14447	1.0265
#1	.00620	9.1515	.07018	.03509	.14005	55.328	.24497
#2	.00581	9.1919	.07009	.03455	.13987	55.485	.24151
#3	.00574	9.1725	.06985	.03458	.14009	55.433	.24014

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.24266	14.039	1.1792	.00442	.06636	4.5225	-.00265
SDev	.00286	.017	.0017	.00158	.00064	.0027	.00472
%RSD	1.1802	.12293	.14755	35.671	.96513	.06008	177.65
#1	.23974	14.037	1.1776	.00610	.06571	4.5198	.00222
#2	.24277	14.057	1.1810	.00417	.06699	4.5226	-.00299
#3	.24547	14.023	1.1789	.00298	.06640	4.5253	-.00719

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00338	3.2469	.00099	.61896	.02903	.00192	1.2716
SDev	.00111	.0010	.00027	.06220	.00104	.00252	.0015
%RSD	32.835	.03000	27.498	10.048	3.5871	131.54	.11645
#1	.00255	3.2476	.00130	.59442	.02993	.00481	1.2725
#2	.00464	3.2473	.00079	.68969	.02926	.00075	1.2724
#3	.00294	3.2458	.00088	.57279	.02789	.00019	1.2699

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.08946	.31559	.2433	.0020	.0029
SDev	.00022	.00097	.0011	.0015	.0023
%RSD	.24179	.30796	.4728	78.14	80.18
#1	.08964	.31454	.2422	.0031	.0005
#2	.08922	.31645	.2432	.0027	.0051
#3	.08952	.31579	.2445	.0002	.0029

Method: EPA Sample Name: 239989 Operator:
Run Time: 07/25/96 19:07:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	33.061	.00464	.00111	.01707	.44305	.00162	.05341
SDev	.049	.00081	.00123	.00159	.00069	.00025	.00065
%RSD	.14864	17.449	110.84	9.3282	.15571	15.309	1.2162
#1	33.105	.00434	.00125	.01880	.44384	.00190	.05391
#2	33.008	.00555	.00226	.01677	.44271	.00150	.05364
#3	33.069	.00402	-.00018	.01565	.44259	.00145	.05267

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01325	16.209	.06089	.02566	.35830	66.728	.61655
SDev	.00017	.053	.00020	.00006	.00013	.150	.00129
%RSD	1.3091	.32570	.32945	.23188	.03749	.22409	.20924
#1	.01330	16.148	.06071	.02566	.35832	66.555	.61576
#2	.01306	16.246	.06085	.02561	.35842	66.807	.61804
#3	.01340	16.232	.06111	.02573	.35815	66.820	.61584

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.60604	11.656	1.1956	.00321	.09087	4.3272	.00139
SDev	.00305	.004	.0022	.00016	.00026	.0102	.00383
%RSD	.50260	.03085	.17987	5.1402	.28050	.23575	274.92
#1	.60438	11.657	1.1931	.00315	.09116	4.3381	-.00211
#2	.60420	11.660	1.1969	.00308	.09079	4.3179	.00081
#3	.60956	11.653	1.1968	.00339	.09067	4.3256	.00549

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00371	2.1675	.01494	.50382	.07623	-.00001	1.0255
SDev	.00018	.0044	.00024	.05093	.00055	.00320	.0007
%RSD	4.9154	.20498	1.6010	10.109	.71647	45097.	.06495
#1	.00387	2.1635	.01469	.55200	.07562	-.00326	1.0248
#2	.00351	2.1666	.01516	.50892	.07639	.00314	1.0259
#3	.00374	2.1723	.01495	.45053	.07668	.00010	1.0260

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.18323	.81581	.6104	.0036	.0029
SDev	.00039	.00231	.0019	.0013	.0011
%RSD	.21237	.28263	.3037	35.02	36.51
#1	.18297	.81362	.6090	.0025	.0029
#2	.18305	.81559	.6096	.0033	.0040
#3	.18368	.81822	.6125	.0050	.0019

Method: EPA Sample Name: CRI Operator:
Run Time: 07/25/96 19:12:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.02214	.10691	.10882	.01882	.00015	.00890	-.00032
SDev	.00148	.00744	.00483	.00152	.00003	.00003	.00021
%RSD	6.6956	6.9568	4.4394	8.0880	19.344	.28864	66.329
#1	-.02131	.09834	.10332	.01735	.00017	.00892	-.00050
#2	-.02127	.11082	.11238	.02039	.00017	.00887	-.00009
#3	-.02386	.11158	.11075	.01872	.00012	.00890	-.00038

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01011	.01996	.01981	.10340	.05071	.01867	.00773
SDev	.00031	.00065	.00031	.00054	.00010	.00505	.00197
%RSD	3.0615	3.2449	1.5875	.52297	.19114	27.058	25.500
#1	.00979	.02056	.01971	.10341	.05059	.02396	.00762
#2	.01041	.02004	.02016	.10394	.05077	.01814	.00976
#3	.01012	.01928	.01955	.10285	.05076	.01390	.00582

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00712	.00591	.03104	.00028	.08076	.00307	.00983
SDev	.00080	.00214	.00006	.00071	.00032	.00432	.00068
%RSD	11.224	36.180	.20453	254.25	.39630	140.73	6.9302
#1	.00787	.00612	.03111	.00009	.08101	.00741	.00949
#2	.00628	.00794	.03101	.00107	.08088	.00303	.00939
#3	.00721	.00368	.03099	-.00032	.08040	-.00123	.01062

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01235	.00745	.02067	.04677	.00051	.02085	.00039
SDev	.00317	.00211	.00026	.00966	.00090	.00037	.00020
%RSD	25.703	28.360	1.2828	20.644	174.66	1.7759	50.082
#1	.01548	.00865	.02056	.03617	-.00050	.02068	.00056
#2	.00913	.00868	.02097	.04908	.00083	.02059	.00043
#3	.01243	.00501	.02048	.05506	.00121	.02127	.00018

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.09858	.04046	.0080	.0122	.1088
SDev	.00019	.00035	.0005	.0022	.0057
%RSD	.19026	.87056	6.599	17.68	5.205
#1	.09878	.04078	.0085	.0141	.1023
#2	.09858	.04052	.0082	.0099	.1125
#3	.09840	.04008	.0075	.0125	.1117

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Method: EPA Sample Name: ICSA Operator:
Run Time: 07/25/96 19:16:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	454.52	.01278	-.00032	-.00244	-.00233	.00050	-.00015
SDev	1.84	.00799	.00302	.00091	.00003	.00003	.00169
%RSD	.40421	62.492	942.58	37.131	1.3056	5.5965	1145.5
#1	456.64	.02051	-.00090	-.00157	-.00232	.00053	-.00160
#2	453.30	.01327	.00295	-.00237	-.00231	.00049	-.00054
#3	453.64	.00456	-.00300	-.00338	-.00237	.00047	.00170

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00201	445.36	.00710	.00064	-.00082	185.29	-.00154
SDev	.00053	1.70	.00034	.00079	.00074	.91	.00055
%RSD	26.444	.38082	4.8634	124.26	90.425	.49265	35.530
#1	.00260	447.26	.00750	.00048	.00004	186.33	-.00103
#2	.00187	444.00	.00689	.00150	-.00127	184.67	-.00212
#3	.00156	444.83	.00692	-.00007	-.00122	184.85	-.00147

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00395	499.95	-.00303	.00061	.00886	.00553	-.01354
SDev	.00295	2.71	.00015	.00061	.00006	.00500	.00214
%RSD	74.715	.54145	5.0897	100.68	.71800	90.415	15.816
#1	.00653	503.08	-.00320	.00026	.00878	.01130	-.01334
#2	.00073	498.39	-.00300	.00131	.00889	.00246	-.01578
#3	.00459	498.39	-.00289	.00025	.00890	.00283	-.01151

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00756	.02769	.00007	.07645	.00316	-.00000	-.00130
SDev	.00294	.00346	.00028	.12317	.00427	.00204	.00003
%RSD	38.883	12.475	393.87	161.11	134.96	48848.	2.0096
#1	-.00791	.03162	.00039	.21186	.00364	-.00162	-.00127
#2	-.01031	.02635	-.00011	-.02892	.00717	.00229	-.00131
#3	-.00446	.02511	-.00006	.04642	-.00133	-.00068	-.00132

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00234	.00183	.0029	L-.0088	.0047
SDev	.00053	.00033	.0021	.0027	.0039
%RSD	22.517	17.902	71.65	30.09	82.75
#1	-.00184	.00146	.0048	L-.0090	.0069
#2	-.00289	.00193	.0007	L-.0114	.0071
#3	-.00230	.00209	.0034	L-.0061	.0002

Method: EPA Sample Name: ICSAB Operator:
Run Time: 07/25/96 19:21:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	455.25	.61173	.59072	.09599	.53450	.47647	.00145
SDev	.38	.00554	.00321	.00117	.00073	.00045	.00054
%RSD	.08346	.90559	.54266	1.2228	.13626	.09494	37.451
#1	455.66	.60560	.59440	.09710	.53533	.47695	.00199
#2	454.91	.61323	.58928	.09611	.53399	.47642	.00090
#3	455.19	.61637	.58849	.09476	.53417	.47605	.00147

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.91045	443.65	.47952	.46490	.53466	184.06	.04591
SDev	.00223	.30	.00028	.00069	.00069	.20	.00223
%RSD	.24459	.06689	.05915	.14791	.12965	.10696	4.8638
#1	.91165	443.49	.47975	.46570	.53546	184.18	.04639
#2	.91181	443.99	.47961	.46445	.53419	184.18	.04786
#3	.90788	443.46	.47921	.46457	.53434	183.84	.04347

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.05465	496.04	.48626	.00159	.91589	-.00412	.03904
SDev	.00327	.29	.00046	.00163	.00104	.00951	.00315
%RSD	5.9905	.05803	.09474	102.44	.11355	231.13	8.0756
#1	.05592	496.28	.48656	.00299	.91700	.00677	.04265
#2	.05093	496.12	.48650	.00197	.91573	-.00827	.03759
#3	.05710	495.72	.48573	-.00020	.91494	-.01084	.03687

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04346	.02987	.21837	-.01510	.00468	.08619	-.00009
SDev	.00593	.00205	.00034	.05673	.00169	.00148	.00005
%RSD	13.652	6.8622	.15656	375.61	36.214	1.7122	50.982
#1	.04895	.03146	.21863	.05001	.00644	.08709	-.00005
#2	.03717	.03059	.21849	-.05388	.00456	.08698	-.00008
#3	.04425	.02756	.21798	-.04144	.00305	.08448	-.00014

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.49000	.99307	.0526	.0427	.5984
SDev	.00082	.00065	.0016	.0048	.0004
%RSD	.16657	.06565	3.022	11.19	.0736
#1	.48908	.99332	.0536	.0476	.5988
#2	.49031	.99233	.0508	.0380	.5980
#3	.49062	.99355	.0534	.0425	.5985

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Method: EPA Sample Name: CCV_ Operator:
Run Time: 07/25/96 19:26:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	5.0779	1.0088	.98508	.98273	5.0475	.12332	2.4990
SDev	.0227	.0029	.00266	.00091	.0072	.00030	.0036
%RSD	.44649	.28474	.27005	.09218	.14223	.24202	.14321
#1	5.1032	1.0057	.98730	.98261	5.0557	.12366	2.5012
#2	5.0711	1.0113	.98213	.98369	5.0443	.12319	2.5009
#3	5.0595	1.0096	.98582	.98189	5.0425	.12310	2.4949

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.49171	12.666	.49848	1.2411	.61122	2.4991	1.0061
SDev	.00162	.021	.00067	.0036	.00084	.0159	.0030
%RSD	.32878	.16937	.13379	.29265	.13686	.63747	.30019
#1	.49316	12.683	.49924	1.2449	.61197	2.5166	1.0030
#2	.49202	12.672	.49820	1.2406	.61139	2.4953	1.0065
#3	.48997	12.642	.49800	1.2377	.61032	2.4854	1.0090

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.98690	12.268	1.2607	2.4440	1.2422	12.901	1.0101
SDev	.00140	.013	.0016	.0072	.0058	.030	.0071
%RSD	.14180	.10926	.12940	.29353	.46445	.22907	.70662
#1	.98660	12.280	1.2622	2.4362	1.2478	12.934	1.0048
#2	.98567	12.271	1.2609	2.4455	1.2425	12.890	1.0072
#3	.98842	12.254	1.2589	2.4503	1.2363	12.878	1.0182

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99118	2.5179	.62807	12.356	2.4980	1.0007	2.5591
SDev	.00386	.0082	.00139	.035	.0016	.0041	.0032
%RSD	.38931	.32565	.22126	.28721	.06482	.40943	.12565
#1	.99470	2.5262	.62909	12.343	2.4967	1.0051	2.5628
#2	.98705	2.5175	.62864	12.328	2.4998	.99701	2.5575
#3	.99179	2.5099	.62649	12.396	2.4974	1.0000	2.5569

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.2545	1.2541	.9941	.9981	.9936
SDev	.0016	.0021	.0017	.0034	.0010
%RSD	.13001	.16655	.1731	.3448	.1025
#1	1.2562	1.2559	.9929	.9987	.9941
#2	1.2543	1.2545	.9934	.9944	.9925
#3	1.2530	1.2518	.9961	1.001	.9944

Method: EPA Sample Name: CCB Operator:
Run Time: 07/25/96 19:31:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.02277	.00472	.00064	-.00208	.00062	-.00059	.00097
SDev	.00361	.00291	.00150	.00143	.00010	.00034	.00056
%RSD	15.839	61.723	234.29	68.589	16.533	57.751	58.047
#1	-.02028	.00789	-.00107	-.00176	.00072	-.00020	.00033
#2	-.02112	.00409	.00125	-.00364	.00062	-.00078	.00120
#3	-.02690	.00217	.00174	-.00084	.00052	-.00079	.00137

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00002	.03827	-.00007	.00067	.00047	.01363	-.00058
SDev	.00016	.00297	.00015	.00017	.00020	.00215	.00105
%RSD	1020.9	7.7696	203.74	25.413	42.086	15.796	182.49
#1	-.00002	.04146	.00002	.00083	.00070	.01597	.00005
#2	-.00013	.03558	-.00025	.00050	.00040	.01173	-.00179
#3	.00019	.03778	.00001	.00067	.00032	.01320	.00001

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00115	.01538	.00013	.00677	-.00018	.00509	.00234
SDev	.00110	.00130	.00003	.00379	.00031	.00835	.00086
%RSD	96.350	8.4781	23.294	55.894	171.33	164.28	36.686
#1	.00242	.01644	.00017	.01104	.00014	.01451	.00137
#2	.00045	.01578	.00012	.00547	-.00021	-.00141	.00299
#3	.00057	.01392	.00011	.00381	-.00048	.00215	.00265

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00176	.00293	.00023	-.06629	.00325	-.00016	.00082
SDev	.00334	.00022	.00005	.10019	.00068	.00204	.00045
%RSD	189.76	7.6812	18.976	151.15	20.991	1253.4	55.242
#1	.00267	.00273	.00024	.02685	.00399	.00045	.00133
#2	.00455	.00318	.00019	-.17229	.00266	-.00244	.00065
#3	-.00194	.00288	.00028	-.05343	.00309	.00150	.00048

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00034	.00019	.0012	.0026	.0026
SDev	.00024	.00010	.0010	.0022	.0001
%RSD	70.384	54.494	80.57	86.21	5.869
#1	.00020	.00014	.0023	.0029	.0025
#2	.00020	.00031	.0003	.0047	.0028
#3	.00062	.00012	.0010	.0002	.0025

Method: EPA Sample Name: 239990 Operator:
Run Time: 07/25/96 19:36:40
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	40.728	.00221	-.00298	.00688	.19416	.00186	.02040
SDev	.039	.00113	.00123	.00038	.00032	.00006	.00068
%RSD	.09655	51.084	41.358	5.5427	.16431	3.0352	3.3273
#1	40.768	.00348	-.00380	.00666	.19448	.00191	.02070
#2	40.727	.00134	-.00358	.00666	.19414	.00187	.01963
#3	40.689	.00180	-.00156	.00732	.19385	.00180	.02088

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00050	5.1299	.06068	.03163	.34182	69.672	.04505
SDev	.00024	.0053	.00026	.00040	.00074	.050	.00050
%RSD	47.675	.10306	.42404	1.2662	.21550	.07208	1.1167
#1	.00054	5.1243	.06060	.03122	.34216	69.615	.04471
#2	.00071	5.1306	.06047	.03202	.34234	69.688	.04563
#3	.00024	5.1348	.06096	.03165	.34098	69.712	.04481

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.05025	16.153	1.5623	.00201	.06554	6.0998	-.00257
SDev	.00244	.011	.0011	.00064	.00053	.0112	.00511
%RSD	4.8637	.06958	.06909	31.834	.80205	.18307	198.72
#1	.05303	16.145	1.5612	.00248	.06526	6.1114	-.00086
#2	.04843	16.149	1.5622	.00128	.06522	6.0988	-.00831
#3	.04929	16.166	1.5634	.00227	.06615	6.0891	.00146

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00148	1.8202	-.00036	.33821	.00760	.00337	.86025
SDev	.00200	.0010	.00017	.02200	.00231	.00242	.00045
%RSD	134.91	.05355	46.441	6.5034	30.419	71.996	.05240
#1	.00284	1.8210	-.00054	.31308	.00494	.00457	.86076
#2	.00243	1.8191	-.00022	.35398	.00912	.00495	.86009
#3	-.00082	1.8205	-.00031	.34756	.00875	.00058	.85990

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.08350	.17050	.0493	.0008	-.0006
SDev	.00015	.00009	.0016	.0014	.0008
%RSD	.18371	.05174	3.173	177.3	126.4
#1	.08351	.17059	.0511	.0023	-.0007
#2	.08365	.17049	.0482	-.0005	-.0014
#3	.08334	.17042	.0485	.0006	.0002

Method: EPA Sample Name: 239991 Operator:
Run Time: 07/25/96 19:41:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	19.870	.07285	.07193	.13065	.57961	.00199	.01725
SDev	.028	.00227	.00125	.00105	.00032	.00017	.00143
%RSD	.14306	3.1140	1.7342	.80514	.05605	8.7931	8.2769
#1	19.840	.07346	.07179	.13010	.57983	.00219	.01834
#2	19.896	.07034	.07076	.13186	.57975	.00185	.01778
#3	19.873	.07475	.07325	.12998	.57923	.00193	.01563

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00561	6.7560	.24590	.10883	.73551	H625.97	6.5453
SDev	.00055	.0025	.00028	.00056	.00052	.35	.0116
%RSD	9.8675	.03665	.11585	.51148	.07113	.05613	.17777
#1	.00507	6.7564	.24566	.10921	.73493	H626.37	6.5324
#2	.00558	6.7534	.24621	.10819	.73567	H625.86	6.5484
#3	.00618	6.7583	.24582	.10909	.73594	H625.69	6.5551

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	6.4272	1.7342	5.7541	.00676	.24476	1.1090	-.01407
SDev	.0096	.0055	.0013	.00040	.00089	.0105	.00440
%RSD	.14875	.31990	.02194	5.8870	.36485	.94585	31.245
#1	6.4176	1.7379	5.7532	.00717	.24376	1.1210	-.01300
#2	6.4272	1.7370	5.7536	.00638	.24507	1.1041	-.01031
#3	6.4367	1.7278	5.7556	.00673	.24546	1.1018	-.01891

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00470	5.5433	-.00055	1.1736	.10909	.01217	.35850
SDev	.00300	.0137	.00016	.0243	.00224	.00123	.00043
%RSD	63.888	.24730	29.655	2.0691	2.0494	10.139	.11929
#1	.00139	5.5279	-.00045	1.1820	.11115	.01346	.35855
#2	.00725	5.5542	-.00045	1.1462	.10941	.01100	.35890
#3	.00544	5.5477	-.00073	1.1925	.10671	.01206	.35805

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.07548	.96300	6.467	-.0009	.0729
SDev	.00029	.00123	.010	.0026	.0016
%RSD	.38902	.12775	.1581	289.6	2.144
#1	.07558	.96195	6.457	-.0027	.0729
#2	.07571	.96270	6.468	.0021	.0713
#3	.07515	.96436	6.477	-.0020	.0744

Method: EPA Sample Name: 239992 Operator:
Run Time: 07/25/96 19:46:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	43.211	.00324	-.00085	.00897	.24753	.00154	.04110
SDev	.200	.00376	.00101	.00084	.00098	.00014	.00030
%RSD	.46243	116.15	118.56	9.3623	.39647	9.1413	.71794
#1	42.985	.00753	-.00147	.00870	.24641	.00170	.04103
#2	43.283	.00053	-.00141	.00830	.24796	.00149	.04084
#3	43.365	.00165	.00031	.00991	.24823	.00143	.04142

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00023	3.4555	.05959	.02952	.08471	63.921	.10546
SDev	.00031	.0165	.00038	.00030	.00017	.334	.00112
%RSD	135.33	.47627	.63264	1.0119	.20364	.52254	1.0665
#1	.00006	3.4384	.05922	.02935	.08463	63.550	.10570
#2	.00004	3.4712	.05997	.02987	.08460	64.199	.10645
#3	.00058	3.4568	.05957	.02935	.08491	64.013	.10424

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.10608	12.772	1.9738	.00160	.05972	5.2799	-.00319
SDev	.00116	.063	.0083	.00031	.00103	.0157	.00326
%RSD	1.0924	.49420	.42181	19.402	1.7170	.29703	102.39
#1	.10675	12.700	1.9645	.00191	.05976	5.2637	-.00122
#2	.10675	12.819	1.9805	.00160	.06073	5.2810	-.00695
#3	.10474	12.798	1.9764	.00129	.05868	5.2950	-.00139

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00279	3.8530	-.00033	.50934	.00947	-.00048	.87229
SDev	.00116	.0148	.00013	.06187	.00042	.00302	.00386
%RSD	41.724	.38386	40.682	12.148	4.3906	633.13	.44236
#1	.00290	3.8361	-.00017	.58006	.00990	-.00114	.86790
#2	.00390	3.8634	-.00040	.48278	.00907	.00282	.87518
#3	.00158	3.8595	-.00040	.46518	.00945	-.00311	.87377

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.07509	.16023	.1066	.0015	.0012
SDev	.00054	.00020	.0011	.0006	.0012
%RSD	.71323	.12251	1.063	44.72	100.6
#1	.07449	.16034	.1071	.0022	.0022
#2	.07552	.16034	.1074	.0009	-.0001
#3	.07526	.16000	.1053	.0012	.0014

Method: EPA Sample Name: 239993 Operator:
Run Time: 07/25/96 19:51:27
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	21.313	.04144	.04025	.12154	.92372	.00239	.04769
SDev	.021	.00226	.00218	.00239	.00154	.00017	.00179
%RSD	.09836	5.4499	5.4108	1.9640	.16623	7.1582	3.7574
#1	21.337	.04289	.04263	.11999	.92547	.00258	.04597
#2	21.305	.03884	.03836	.12429	.92309	.00228	.04955
#3	21.298	.04260	.03974	.12034	.92260	.00229	.04757

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00470	5.2371	.11562	.05765	.52480	H508.80	6.6201
SDev	.00037	.0245	.00041	.00013	.00187	1.41	.0069
%RSD	7.8014	.46816	.35339	.22437	.35656	.27771	.10400
#1	.00455	5.2092	.11524	.05763	.52691	H507.25	6.6174
#2	.00512	5.2554	.11605	.05779	.52416	H510.01	6.6279
#3	.00444	5.2467	.11558	.05754	.52334	H509.12	6.6150

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	6.4624	1.7421	3.4079	.00482	.22823	1.4420	-.01308
SDev	.0133	.0047	.0086	.00009	.00178	.0068	.00532
%RSD	.20526	.26971	.25271	1.7839	.78005	.47416	40.651
#1	6.4477	1.7414	3.3986	.00483	.22656	1.4446	-.01764
#2	6.4662	1.7471	3.4155	.00491	.23010	1.4342	-.01438
#3	6.4734	1.7378	3.4097	.00473	.22803	1.4472	-.00724

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00283	1.7066	-.00061	1.4741	.08017	.00808	.33195
SDev	.00213	.0107	.00022	.0310	.00177	.00220	.00042
%RSD	75.372	.62742	36.187	2.1029	2.2060	27.171	.12522
#1	.00051	1.6957	-.00069	1.4387	.08108	.00623	.33148
#2	.00326	1.7069	-.00036	1.4870	.07814	.01051	.33228
#3	.00471	1.7171	-.00077	1.4965	.08131	.00751	.33208

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.05997	.82087	6.516	-.0018	.0413
SDev	.00062	.00165	.009	.0031	.0021
%RSD	1.0279	.20143	.1427	172.4	5.186
#1	.05967	.81918	6.505	-.0049	.0434
#2	.06068	.82248	6.521	-.0020	.0391
#3	.05956	.82097	6.521	.0014	.0413

Method: EPA Sample Name: 239996 Operator:
Run Time: 07/25/96 19:56:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	43.995	.00402	.00478	.03221	1.0560	.00137	.34252
SDev	.050	.00278	.00174	.00112	.0008	.00023	.00078
%RSD	.11345	69.185	36.440	3.4624	.08016	16.961	.22841
#1	43.938	.00719	.00277	.03092	1.0550	.00163	.34166
#2	44.016	.00201	.00593	.03288	1.0563	.00120	.34269
#3	44.031	.00285	.00563	.03283	1.0566	.00127	.34319

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01782	67.629	.07353	.02916	.91684	92.059	1.3792
SDev	.00016	.115	.00036	.00023	.00044	.194	.0041
%RSD	.87306	.17062	.49311	.78507	.04775	.21071	.29867
#1	.01786	67.496	.07317	.02935	.91648	91.840	1.3833
#2	.01765	67.702	.07352	.02924	.91672	92.130	1.3793
#3	.01795	67.688	.07390	.02891	.91733	92.208	1.3751

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.3467	19.809	1.4160	.00554	.12156	3.7692	-.00116
SDev	.0046	.037	.0018	.00050	.00104	.0029	.00268
%RSD	.33957	.18632	.12668	8.9443	.85557	.07826	230.65
#1	1.3433	19.766	1.4140	.00527	.12056	3.7672	.00013
#2	1.3448	19.831	1.4172	.00611	.12264	3.7726	-.00425
#3	1.3519	19.829	1.4169	.00524	.12147	3.7678	.00063

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00310	6.8382	.01942	1.7395	.10173	.00076	2.2558
SDev	.00274	.0127	.00004	.0445	.00180	.00256	.0023
%RSD	88.483	.18639	.21512	2.5568	1.7657	336.83	.10045
#1	.00077	6.8260	.01938	1.7867	.09968	-.00201	2.2531
#2	.00241	6.8373	.01941	1.7333	.10305	.00303	2.2569
#3	.00612	6.8514	.01947	1.6984	.10245	.00126	2.2572

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.42489	1.0257	1.358	.0023	.0052
SDev	.00103	.0007	.002	.0023	.0002
%RSD	.24334	.06923	.1342	97.47	4.696
#1	.42375	1.0249	1.357	.0012	.0049
#2	.42517	1.0263	1.357	.0008	.0053
#3	.42576	1.0259	1.360	.0049	.0053

Method: EPA Sample Name: 239997 Operator:
Run Time: 07/25/96 20:01:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	44.441	.00262	.00211	.05148	1.1374	.00251	.18616
SDev	.040	.00309	.00214	.00166	.0014	.00021	.00130
%RSD	.09006	117.92	101.35	3.2202	.12681	8.2622	.69598
#1	44.445	.00030	.00418	.05197	1.1385	.00275	.18539
#2	44.479	.00614	.00223	.05284	1.1381	.00239	.18766
#3	44.400	.00144	-.00009	.04963	1.1358	.00239	.18544

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00739	49.165	.04811	.01464	.24735	93.150	.53799
SDev	.00028	.088	.00023	.00018	.00062	.093	.00121
%RSD	3.7451	.17963	.48040	1.2236	.24899	.09974	.22578
#1	.00748	49.069	.04808	.01452	.24785	93.043	.53754
#2	.00708	49.183	.04835	.01485	.24754	93.197	.53937
#3	.00760	49.243	.04789	.01456	.24666	93.210	.53707

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.52903	4.2318	.72385	.00583	.06747	1.5504	-.00159
SDev	.00454	.0035	.00086	.00058	.00095	.0062	.00209
%RSD	.85821	.08312	.11933	10.021	1.4073	.39773	131.62
#1	.52389	4.2353	.72285	.00646	.06638	1.5529	-.00150
#2	.53067	4.2319	.72432	.00573	.06808	1.5434	-.00373
#3	.53251	4.2282	.72437	.00530	.06795	1.5549	.00045

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00504	8.0998	.00736	2.1972	.04434	.00148	1.4456
SDev	.00253	.0095	.00007	.0720	.00161	.00131	.0010
%RSD	50.150	.11765	.92609	3.2749	3.6215	88.272	.07055
#1	.00690	8.0896	.00733	2.2594	.04302	.00221	1.4459
#2	.00607	8.1086	.00732	2.1184	.04388	.00227	1.4463
#3	.00216	8.1010	.00744	2.2137	.04613	-.00003	1.4444

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.18668	.46013	.5328	.0035	.0029
SDev	.00046	.00076	.0031	.0013	.0016
%RSD	.24619	.16561	.5875	36.07	56.06
#1	.18659	.45959	.5292	.0048	.0035
#2	.18628	.45980	.5343	.0035	.0042
#3	.18718	.46100	.5348	.0022	.0011

Method: EPA Sample Name: 239998 Operator:
Run Time: 07/25/96 20:06:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	38.479	.00880	.00631	.06616	.53880	.00201	.15127
SDev	.309	.00179	.00232	.00194	.00456	.00016	.00083
%RSD	.80289	20.310	36.705	2.9370	.84532	7.9477	.54740
#1	38.833	.00734	.00839	.06834	.54405	.00219	.15175
#2	38.333	.00826	.00381	.06461	.53642	.00192	.15032
#3	38.269	.01079	.00674	.06553	.53592	.00192	.15175

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.02500	22.777	.13930	.03717	1.6486	77.432	1.3406
SDev	.00029	.126	.00112	.00049	.0138	.531	.0113
%RSD	1.1720	.55232	.80067	1.3230	.83515	.68574	.84636
#1	.02527	22.919	.14057	.03765	1.6645	78.037	1.3514
#2	.02505	22.678	.13880	.03719	1.6422	77.043	1.3416
#3	.02469	22.735	.13852	.03667	1.6393	77.216	1.3288

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.3100	16.814	2.0306	.00300	.13055	5.9305	-.00359
SDev	.0064	.117	.0128	.00062	.00074	.0484	.00143
%RSD	.48658	.69832	.62962	20.821	.56850	.81555	39.876
#1	1.3152	16.950	2.0452	.00331	.13130	5.9855	-.00369
#2	1.3029	16.741	2.0215	.00340	.12982	5.9113	-.00211
#3	1.3119	16.752	2.0250	.00228	.13054	5.8947	-.00497

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00490	13.210	.06420	1.3543	.14233	.00106	1.5373
SDev	.00065	.080	.00043	.0150	.00133	.00099	.0120
%RSD	13.344	.60605	.66837	1.1057	.93628	93.763	.78239
#1	.00557	13.302	.06466	1.3458	.14181	-.00008	1.5512
#2	.00426	13.159	.06380	1.3455	.14134	.00174	1.5299
#3	.00488	13.169	.06414	1.3716	.14385	.00152	1.5309

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.12328	.91749	1.321	.0027	.0078
SDev	.00111	.00705	.006	.0004	.0016
%RSD	.89910	.76797	.4695	16.68	20.57
#1	.12456	.92553	1.328	.0031	.0087
#2	.12255	.91237	1.317	.0028	.0059
#3	.12274	.91458	1.318	.0022	.0087

Method: EPA Sample Name: 239999 Operator:
Run Time: 07/25/96 20:11:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	51.360	.00605	.00512	.03066	.51415	.00278	.16918
SDev	.052	.00242	.00405	.00056	.00052	.00015	.00120
%RSD	.10114	40.007	79.114	1.8150	.10093	5.4810	.70726
#1	51.403	.00416	.00979	.03049	.51464	.00296	.16784
#2	51.302	.00521	.00274	.03129	.51361	.00269	.17014
#3	51.375	.00877	.00282	.03021	.51421	.00270	.16956

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00333	13.256	.08067	.05247	3.3016	79.175	1.6100
SDev	.00031	.011	.00039	.00059	.0051	.049	.0076
%RSD	9.2521	.08275	.47959	1.1268	.15438	.06201	.46931
#1	.00352	13.247	.08078	.05315	3.3063	79.176	1.6161
#2	.00349	13.268	.08100	.05209	3.2962	79.224	1.6016
#3	.00298	13.253	.08025	.05217	3.3023	79.125	1.6123

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.5717	22.838	2.8688	.00226	.18005	6.3252	-.00349
SDev	.0033	.034	.0014	.00012	.00059	.0131	.00426
%RSD	.21241	.14913	.04787	5.5119	.32795	.20663	121.97
#1	1.5694	22.878	2.8686	.00240	.17989	6.3398	-.00261
#2	1.5702	22.818	2.8703	.00219	.18070	6.3146	-.00813
#3	1.5755	22.819	2.8676	.00219	.17955	6.3212	.00026

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00363	13.487	.02138	1.2738	.30473	.00290	1.8312
SDev	.00124	.011	.00028	.0300	.00076	.00123	.0003
%RSD	34.258	.07824	1.3273	2.3540	.24958	42.433	.01708
#1	.00389	13.499	.02147	1.3020	.30540	.00418	1.8311
#2	.00228	13.480	.02162	1.2771	.30488	.00278	1.8315
#3	.00472	13.483	.02107	1.2423	.30391	.00173	1.8309

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.12136	.45919	1.585	.0019	.0061
SDev	.00077	.00021	.004	.0022	.0022
%RSD	.63663	.04556	.2241	118.3	36.97
#1	.12114	.45942	1.586	.0024	.0086
#2	.12222	.45913	1.581	-.0005	.0042
#3	.12073	.45902	1.589	.0039	.0054

Method: EPA Sample Name: 240000 Operator:
Run Time: 07/25/96 20:16:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	34.876	.01005	.00830	.05780	2.3018	.00166	.16498
SDev	.031	.00350	.00105	.00076	.0003	.00008	.00061
%RSD	.09008	34.840	12.655	1.3138	.01459	5.0766	.37207
#1	34.848	.00624	.00950	.05758	2.3022	.00175	.16431
#2	34.870	.01080	.00752	.05718	2.3015	.00159	.16511
#3	34.910	.01312	.00788	.05865	2.3018	.00164	.16552

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.04125	34.512	.09894	.02883	.61896	99.119	1.9152
SDev	.00024	.056	.00035	.00057	.00102	.100	.0021
%RSD	.57904	.16169	.34921	1.9648	.16470	.10122	.11130
#1	.04151	34.451	.09864	.02828	.61993	99.003	1.9161
#2	.04119	34.525	.09932	.02941	.61905	99.171	1.9128
#3	.04104	34.560	.09887	.02879	.61789	99.182	1.9167

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.8696	10.513	1.4612	.00593	.13900	3.7488	-.00171
SDev	.0079	.016	.0013	.00071	.00082	.0074	.00171
%RSD	.42124	.14861	.08916	12.026	.59280	.19713	100.50
#1	1.8627	10.497	1.4599	.00643	.13993	3.7539	-.00001
#2	1.8679	10.529	1.4612	.00626	.13835	3.7403	-.00166
#3	1.8781	10.513	1.4625	.00511	.13872	3.7521	-.00344

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00416	10.638	.02873	2.0842	.11249	.00021	1.4264
SDev	.00019	.013	.00007	.0812	.00141	.00196	.0008
%RSD	4.6218	.12284	.23200	3.8947	1.2499	919.66	.05379
#1	.00434	10.623	.02876	2.1057	.11235	-.00021	1.4255
#2	.00418	10.644	.02865	1.9945	.11396	.00236	1.4269
#3	.00395	10.647	.02877	2.1526	.11116	-.00150	1.4268

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.15284	1.2037	1.886	.0029	.0095
SDev	.00020	.0026	.006	.0007	.0006
%RSD	.12828	.21994	.2925	24.51	6.830
#1	.15274	1.2009	1.881	.0035	.0091
#2	.15271	1.2042	1.884	.0029	.0093
#3	.15307	1.2061	1.892	.0021	.0103

Method: EPA Sample Name: 240001 Operator:
Run Time: 07/25/96 20:21:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	32.302	.01253	.01505	.14167	.52121	.00277	.48234
SDev	.056	.00316	.00101	.00165	.00163	.00026	.00194
%RSD	.17305	25.232	6.6940	1.1658	.31210	9.4740	.40136
#1	32.366	.01298	.01617	.13980	.52297	.00306	.48054
#2	32.282	.01544	.01421	.14228	.52089	.00267	.48211
#3	32.259	.00917	.01478	.14293	.51976	.00257	.48439

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.06885	47.306	.06481	.03113	3.1080	54.107	4.9571
SDev	.00037	.040	.00034	.00041	.0088	.052	.0222
%RSD	.53591	.08552	.52086	1.3152	.28380	.09664	.44777
#1	.06880	47.294	.06492	.03110	3.1180	54.141	4.9825
#2	.06851	47.273	.06443	.03073	3.1045	54.047	4.9476
#3	.06924	47.351	.06507	.03155	3.1015	54.133	4.9413

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	4.8311	10.926	1.6046	.01127	.07173	5.3682	-.00152
SDev	.0143	.008	.0016	.00060	.00030	.0167	.00362
%RSD	.29677	.07202	.10084	5.3270	.42489	.31073	238.46
#1	4.8460	10.931	1.6062	.01187	.07190	5.3874	-.00371
#2	4.8174	10.916	1.6029	.01067	.07190	5.3599	-.00350
#3	4.8298	10.929	1.6046	.01127	.07137	5.3574	.00266

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00442	11.788	.02215	1.0072	.45785	.00075	.85398
SDev	.00101	.005	.00011	.0474	.00268	.00047	.00138
%RSD	22.820	.04597	.47580	4.7084	.58513	61.972	.16161
#1	.00388	11.794	.02219	.98515	.45985	.00021	.85552
#2	.00380	11.788	.02223	1.0616	.45481	.00105	.85284
#3	.00559	11.783	.02203	.97480	.45890	.00099	.85359

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.06493	5.3005	4.874	.0031	.0148
SDev	.00044	.0041	.016	.0019	.0011
%RSD	.67767	.07774	.3324	60.78	7.696
#1	.06448	5.3036	4.892	.0020	.0158
#2	.06496	5.2958	4.861	.0020	.0152
#3	.06535	5.3020	4.868	.0053	.0136

Method: EPA Sample Name: CCV_ Operator:
Run Time: 07/25/96 20:25:58
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	5.0609	1.0177	.99294	1.0005	5.0874	.12505	2.5311
SDev	.0123	.0073	.00354	.0056	.0067	.00028	.0089
%RSD	.24301	.71346	.35661	.55886	.13123	.21996	.35010
#1	5.0751	1.0125	.99294	.99600	5.0951	.12537	2.5412
#2	5.0544	1.0146	.99648	.99874	5.0828	.12490	2.5245
#3	5.0533	1.0260	.98940	1.0068	5.0845	.12489	2.5277

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.49966	12.781	.50605	1.2581	.61666	2.5204	1.0235
SDev	.00054	.024	.00072	.0026	.00061	.0190	.0034
%RSD	.10862	.19097	.14296	.20591	.09958	.75522	.33019
#1	.50027	12.809	.50687	1.2611	.61705	2.5416	1.0272
#2	.49947	12.771	.50580	1.2565	.61595	2.5048	1.0228
#3	.49923	12.764	.50550	1.2567	.61699	2.5147	1.0205

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.0014	12.466	1.2826	2.4673	1.2574	12.955	1.0220
SDev	.0019	.021	.0024	.0058	.0041	.015	.0078
%RSD	.19220	.17034	.18846	.23701	.32398	.11361	.75981
#1	1.0012	12.489	1.2854	2.4608	1.2621	12.947	1.0298
#2	.99967	12.448	1.2813	2.4723	1.2551	12.947	1.0219
#3	1.0035	12.461	1.2811	2.4687	1.2550	12.972	1.0143

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0045	2.5591	.63348	12.425	2.5379	1.0087	2.5899
SDev	.0040	.0043	.00111	.054	.0016	.0023	.0050
%RSD	.39814	.16662	.17453	.43555	.06217	.22699	.19116
#1	.99992	2.5633	.63475	12.451	2.5361	1.0112	2.5956
#2	1.0061	2.5591	.63270	12.363	2.5385	1.0082	2.5877
#3	1.0074	2.5548	.63300	12.461	2.5391	1.0067	2.5865

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.2720	1.2689	1.009	1.011	1.002
SDev	.0031	.0006	.001	.001	.002
%RSD	.24532	.04981	.1337	.0900	.1522
#1	1.2755	1.2695	1.011	1.011	1.000
#2	1.2697	1.2683	1.008	1.012	1.003
#3	1.2706	1.2688	1.010	1.010	1.002

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Method: EPA Sample Name: CCB Operator:
Run Time: 07/25/96 20:30:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.04054	.00295	.00040	-.00112	.00078	-.00079	.00131
SDev	.00200	.00155	.00223	.00199	.00011	.00029	.00057
%RSD	4.9293	52.398	565.12	177.09	13.527	36.732	43.321
#1	-.03968	.00474	.00291	-.00014	.00087	-.00046	.00196
#2	-.04283	.00209	-.00038	.00018	.00081	-.00098	.00106
#3	-.03912	.00203	-.00134	-.00341	.00066	-.00094	.00091

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00006	.02905	-.00015	.00030	.00111	.00469	.00121
SDev	.00011	.00056	.00009	.00026	.00009	.00376	.00166
%RSD	180.88	1.9199	58.812	84.969	8.1371	80.232	137.78
#1	.00002	.02880	-.00025	.00058	.00120	.00598	.00141
#2	-.00002	.02968	-.00008	.00008	.00102	.00764	-.00055
#3	.00018	.02865	-.00012	.00025	.00109	.00045	.00276

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00092	.00466	.00027	.00698	.00001	.00278	.00374
SDev	.00116	.00091	.00005	.00449	.00047	.00239	.00248
%RSD	125.32	19.490	18.620	64.237	4723.0	86.195	66.292
#1	.00219	.00367	.00022	.01206	.00012	.00553	.00654
#2	.00067	.00486	.00027	.00536	.00042	.00122	.00280
#3	-.00009	.00546	.00032	.00354	-.00051	.00158	.00186

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00035	.00713	.00025	-.02658	.00319	.00265	.00107
SDev	.00284	.00123	.00021	.03994	.00123	.00220	.00058
%RSD	817.89	17.250	86.275	150.26	38.575	82.805	54.322
#1	.00126	.00816	.00001	.01268	.00454	.00299	.00168
#2	.00262	.00747	.00032	-.02525	.00289	.00031	.00099
#3	-.00284	.00577	.00041	-.06718	.00214	.00466	.00053

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00054	.00029	.0017	.0021	.0019
SDev	.00012	.00017	.0008	.0024	.0020
%RSD	21.428	59.444	49.95	116.6	108.5
#1	.00041	.00031	.0026	.0037	.0042
#2	.00061	.00045	.0009	.0033	.0010
#3	.00061	.00011	.0016	-.0007	.0004

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Method: EPA Sample Name: 240002 Operator:
Run Time: 07/25/96 20:35:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	10.341	.00376	.00015	.00314	.07242	.00036	.05632
SDev	.017	.00216	.00067	.00090	.00015	.00013	.00044
%RSD	.16853	57.356	444.43	28.567	.21402	36.775	.77149
#1	10.352	.00524	-.00058	.00326	.07259	.00051	.05584
#2	10.350	.00129	.00075	.00397	.07237	.00027	.05668
#3	10.321	.00475	.00029	.00219	.07230	.00029	.05645

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.04017	3.0831	.51805	.05099	.48862	40.084	1.3259
SDev	.00010	.0083	.00104	.00025	.00065	.112	.0041
%RSD	.25142	.27027	.20015	.49033	.13343	.27982	.30667
#1	.04021	3.0921	.51901	.05078	.48927	40.210	1.3285
#2	.04024	3.0757	.51695	.05093	.48864	39.997	1.3279
#3	.04005	3.0815	.51819	.05127	.48796	40.044	1.3212

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.2899	20.795	.56838	.00171	.89311	.34047	-.00477
SDev	.0027	.049	.00146	.00051	.00428	.00888	.00350
%RSD	.21208	.23612	.25634	29.634	.47890	2.6074	73.502
#1	1.2930	20.852	.57005	.00227	.89805	.35068	-.00689
#2	1.2879	20.770	.56742	.00128	.89075	.33456	-.00072
#3	1.2889	20.764	.56766	.00158	.89053	.33618	-.00669

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00253	4.0288	.00840	.28813	.07136	.00002	.26115
SDev	.00028	.0072	.00022	.08525	.00097	.00105	.00007
%RSD	11.231	.17888	2.6023	29.589	1.3651	5078.9	.02736
#1	.00271	4.0369	.00815	.27243	.07162	-.00081	.26118
#2	.00266	4.0260	.00848	.21181	.07218	-.00034	.26106
#3	.00220	4.0234	.00856	.38014	.07028	.00120	.26120

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02232	.67838	1.303	.0007	.0020
SDev	.00018	.00283	.003	.0013	.0004
%RSD	.82084	.41719	.2056	168.7	21.16
#1	.02211	.68138	1.306	.0002	.0020
#2	.02243	.67576	1.302	.0022	.0016
#3	.02242	.67799	1.300	-.0001	.0024

Method: EPA Sample Name: 240003 Operator:
Run Time: 07/25/96 20:40:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	43.926	.00587	.00423	.05747	1.4684	.00252	.19485
SDev	.030	.00244	.00264	.00038	.0003	.00012	.00086
%RSD	.06808	41.540	62.398	.66343	.01922	4.6061	.44280
#1	43.894	.00664	.00728	.05788	1.4683	.00265	.19416
#2	43.930	.00783	.00278	.05713	1.4681	.00247	.19582
#3	43.953	.00314	.00263	.05740	1.4687	.00244	.19457

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.03072	46.931	.06323	.01842	1.1439	105.16	1.4010
SDev	.00040	.088	.00009	.00037	.0005	.09	.0049
%RSD	1.2999	.18817	.13423	1.9868	.04266	.08596	.34878
#1	.03035	46.834	.06321	.01871	1.1443	105.06	1.4060
#2	.03115	47.006	.06333	.01853	1.1433	105.23	1.3962
#3	.03066	46.953	.06317	.01801	1.1440	105.18	1.4008

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.3705	6.6888	1.5880	.00801	.13196	3.0087	-.00067
SDev	.0037	.0029	.0015	.00015	.00107	.0025	.00105
%RSD	.27238	.04328	.09310	1.9035	.81222	.08384	156.90
#1	1.3747	6.6867	1.5863	.00801	.13139	3.0101	-.00092
#2	1.3677	6.6921	1.5892	.00787	.13129	3.0102	.00049
#3	1.3690	6.6877	1.5884	.00817	.13319	3.0058	-.00157

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00633	11.318	.00308	2.1479	.08528	.00201	1.4820
SDev	.00129	.042	.00009	.0267	.00194	.00156	.0014
%RSD	20.332	.37257	2.8704	1.2450	2.2736	77.714	.09786
#1	.00780	11.275	.00318	2.1415	.08747	.00356	1.4803
#2	.00576	11.322	.00303	2.1249	.08379	.00044	1.4829
#3	.00543	11.359	.00303	2.1772	.08457	.00204	1.4827

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.99182	4.1191	1.381	.0046	.0054
SDev	.00065	.0064	.004	.0009	.0022
%RSD	.06545	.15537	.2949	19.42	39.67
#1	.99115	4.1120	1.386	.0055	.0077
#2	.99187	4.1245	1.378	.0046	.0051
#3	.99245	4.1208	1.380	.0037	.0034

Method: EPA Sample Name: 240004 Operator:
Run Time: 07/25/96 20:45:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	28.915	.00104	-.00042	.00508	.26601	.00057	.01815
SDev	.098	.00109	.00138	.00082	.00097	.00003	.00092
%RSD	.33918	104.55	331.94	16.077	.36514	5.9789	5.0707
#1	28.987	.00138	.00087	.00437	.26667	.00053	.01914
#2	28.956	-.00018	-.00187	.00597	.26647	.00059	.01800
#3	28.804	.00191	-.00025	.00489	.26489	.00059	.01732

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00029	3.0171	.03898	.01379	.03577	40.993	.03214
SDev	.00006	.0089	.00018	.00022	.00009	.116	.00254
%RSD	20.782	.29644	.46287	1.6023	.25636	.28265	7.8912
#1	.00022	3.0220	.03909	.01395	.03579	41.054	.03366
#2	.00030	3.0224	.03908	.01354	.03586	41.065	.03355
#3	.00034	3.0067	.03877	.01389	.03568	40.859	.02921

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.02800	6.7476	.30413	.00055	.03136	2.6218	-.00152
SDev	.00088	.0288	.00073	.00043	.00016	.0147	.00471
%RSD	3.1545	.42736	.24096	78.758	.52508	.56178	310.53
#1	.02901	6.7695	.30464	.00009	.03127	2.6063	.00075
#2	.02741	6.7583	.30446	.00060	.03126	2.6356	-.00693
#3	.02758	6.7149	.30329	.00095	.03155	2.6234	.00163

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00252	12.379	-.00005	.32977	.00653	.00072	.87961
SDev	.00150	.040	.00007	.10914	.00104	.00265	.00297
%RSD	59.399	.32431	131.30	33.095	15.928	368.29	.33759
#1	.00255	12.412	.00001	.20557	.00576	.00129	.88188
#2	.00401	12.391	-.00013	.37337	.00611	.00304	.88069
#3	.00101	12.335	-.00004	.41036	.00771	-.00217	.87625

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.07239	.10469	.0302	.0018	.0007
SDev	.00035	.00010	.0012	.0008	.0012
%RSD	.48466	.09756	4.059	43.74	172.3
#1	.07272	.10481	.0314	.0026	.0017
#2	.07242	.10462	.0303	.0010	-.0007
#3	.07202	.10465	.0289	.0019	.0011

Method: EPA Sample Name: 240005 Operator:
Run Time: 07/25/96 20:50:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	93.909	.01012	.00754	.03587	.83052	.00186	.56349
SDev	.078	.00234	.00233	.00195	.00053	.00004	.00103
%RSD	.08254	23.158	30.963	5.4326	.06342	2.2315	.18196
#1	93.875	.01281	.00896	.03555	.82993	.00190	.56332
#2	93.854	.00855	.00880	.03796	.83093	.00182	.56256
#3	93.998	.00898	.00484	.03410	.83069	.00185	.56459

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.02071	15.263	.10501	.03666	2.1387	129.28	1.7752
SDev	.00026	.015	.00030	.00033	.0008	.11	.0107
%RSD	1.2548	.10096	.28472	.90004	.03536	.08553	.60277
#1	.02101	15.271	.10515	.03693	2.1380	129.29	1.7842
#2	.02054	15.273	.10521	.03629	2.1387	129.38	1.7781
#3	.02057	15.246	.10466	.03675	2.1395	129.16	1.7634

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.7380	13.394	2.0605	.00950	.11218	5.5846	-.00359
SDev	.0085	.018	.0020	.00063	.00034	.0067	.00238
%RSD	.48985	.13659	.09553	6.6732	.30511	.11954	66.327
#1	1.7379	13.393	2.0604	.00952	.11214	5.5768	-.00317
#2	1.7466	13.413	2.0625	.01012	.11254	5.5883	-.00145
#3	1.7295	13.376	2.0586	.00886	.11186	5.5885	-.00615

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00367	6.5427	.00976	.60773	.88555	.00155	1.1057
SDev	.00327	.0034	.00016	.01802	.00186	.00264	.0009
%RSD	89.238	.05129	1.6760	2.9644	.20952	170.71	.08101
#1	.00185	6.5439	.00990	.60735	.88766	.00261	1.1063
#2	.00745	6.5452	.00980	.62593	.88415	-.00146	1.1062
#3	.00171	6.5389	.00958	.58991	.88485	.00349	1.1047

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.12957	1.4941	1.751	.0019	.0090
SDev	.00033	.0010	.009	.0029	.0020
%RSD	.25262	.06703	.4858	150.4	22.48
#1	.12970	1.4930	1.754	.0008	.0109
#2	.12982	1.4942	1.758	.0051	.0094
#3	.12920	1.4950	1.742	-.0003	.0069

Method: EPA Sample Name: CRI Operator:
Run Time: 07/25/96 20:55:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.02725	.11142	.10839	.01913	.00017	.00867	-.00010
SDev	.00361	.00722	.00237	.00227	.00005	.00007	.00091
%RSD	13.254	6.4768	2.1871	11.852	29.773	.76048	874.16
#1	-.02400	.10380	.10578	.02105	.00017	.00861	-.00053
#2	-.02661	.11230	.11040	.01971	.00022	.00874	.00094
#3	-.03113	.11815	.10899	.01663	.00012	.00866	-.00073

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01020	.02414	.02000	.10422	.05035	.03620	.00808
SDev	.00017	.00074	.00031	.00050	.00029	.00925	.00083
%RSD	1.7200	3.0623	1.5658	.48250	.58026	25.555	10.240
#1	.01025	.02470	.02032	.10470	.05023	.04522	.00772
#2	.01000	.02442	.01997	.10428	.05069	.03665	.00902
#3	.01034	.02331	.01970	.10370	.05014	.02674	.00749

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00678	.00286	.03141	-.00020	.08251	-.00226	.01079
SDev	.00023	.00352	.00012	.00035	.00080	.00872	.00394
%RSD	3.4126	122.74	.36692	170.39	.97233	386.22	36.505
#1	.00668	.00547	.03153	.00019	.08306	.00762	.01249
#2	.00705	.00426	.03140	-.00032	.08289	-.00890	.01359
#3	.00661	-.00113	.03130	-.00047	.08159	-.00550	.00629

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01021	.01275	.02069	.01729	.00058	.02057	.00038
SDev	.00248	.00389	.00033	.03476	.00081	.00077	.00023
%RSD	24.344	30.488	1.6120	201.07	140.95	3.7452	61.252
#1	.00743	.01673	.02097	.05158	.00101	.02102	.00063
#2	.01222	.01257	.02078	-.01793	.00108	.01968	.00034
#3	.01098	.00896	.02032	.01822	-.00036	.02100	.00017

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.09969	.04102	.0080	.0110	.1100
SDev	.00056	.00041	.0004	.0020	.0037
%RSD	.56449	1.0022	5.057	18.11	3.398
#1	.10021	.04144	.0077	.0098	.1058
#2	.09976	.04098	.0084	.0133	.1117
#3	.09909	.04062	.0077	.0100	.1127

Method: EPA Sample Name: ICSA Operator:
Run Time: 07/25/96 21:00:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	457.30	.00682	.00499	-.00058	-.00231	.00050	.00046
SDev	.13	.00226	.00097	.00213	.00008	.00042	.00060
%RSD	.02744	33.164	19.513	365.36	3.6161	84.214	130.38
#1	457.23	.00788	.00600	-.00232	-.00228	.00098	.00019
#2	457.45	.00422	.00406	-.00122	-.00223	.00028	.00004
#3	457.23	.00835	.00491	.00179	-.00240	.00023	.00115

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00212	450.48	.00806	.00073	.00024	186.60	.00094
SDev	.00064	.19	.00054	.00074	.00026	.27	.00487
%RSD	30.397	.04140	6.7286	100.99	109.23	.14509	520.77
#1	.00140	450.69	.00867	.00141	.00046	186.91	.00472
#2	.00265	450.35	.00783	.00085	.00031	186.41	.00265
#3	.00230	450.40	.00767	-.00006	-.00005	186.47	-.00456

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00355	504.19	-.00251	.00139	.00963	.02800	-.01066
SDev	.00149	.80	.00006	.00030	.00096	.00762	.00615
%RSD	42.045	.15938	2.4990	21.800	9.9315	27.199	57.757
#1	.00357	505.07	-.00258	.00119	.01026	.03513	-.00821
#2	.00205	504.00	-.00248	.00174	.01011	.02890	-.01766
#3	.00504	503.49	-.00247	.00124	.00853	.01998	-.00610

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00422	.03092	.00008	.12522	.00556	.00038	-.00126
SDev	.00594	.00105	.00030	.05873	.00152	.00514	.00019
%RSD	140.63	3.4043	364.68	46.901	27.292	1352.3	14.992
#1	-.00979	.03183	.00043	.10041	.00408	-.00460	-.00108
#2	-.00491	.02977	-.00012	.19228	.00549	.00009	-.00124
#3	.00203	.03117	-.00007	.08297	.00711	.00566	-.00146

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00236	.00362	.0035	L-.0056	.0063
SDev	.00045	.00025	.0011	.0049	.0013
%RSD	18.890	6.9822	32.40	86.81	20.52
#1	-.00185	.00334	.0047	L-.0085	.0072
#2	-.00266	.00381	.0030	L-.0085	.0048
#3	-.00257	.00372	.0026	.0000	.0068

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Method: EPA Sample Name: ICSAB Operator:
Run Time: 07/25/96 21:05:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	456.13	.61957	.59040	.09591	.53795	.48111	.00195
SDev	.26	.00771	.00167	.00113	.00053	.00071	.00108
%RSD	.05595	1.2442	.28261	1.1766	.09789	.14722	55.271
#1	456.42	.61205	.59139	.09618	.53809	.48076	.00112
#2	456.03	.62745	.58848	.09687	.53839	.48066	.00157
#3	455.94	.61922	.59134	.09467	.53737	.48193	.00317

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.91870	448.92	.48376	.46922	.53417	185.45	.04912
SDev	.00243	1.07	.00169	.00165	.00074	.38	.00081
%RSD	.26404	.23910	.34994	.35100	.13902	.20660	1.6517
#1	.91737	448.29	.48222	.46743	.53500	185.18	.04921
#2	.91723	448.31	.48349	.46956	.53392	185.28	.04826
#3	.92150	450.16	.48558	.47067	.53358	185.89	.04988

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.05282	499.32	.49159	.00172	.92148	.01267	.04366
SDev	.00072	.53	.00095	.00056	.00366	.00497	.00591
%RSD	1.3594	.10576	.19326	32.400	.39774	39.217	13.541
#1	.05339	498.94	.49085	.00161	.92028	.01355	.03992
#2	.05201	499.10	.49124	.00232	.91857	.00732	.04059
#3	.05306	499.92	.49266	.00122	.92560	.01714	.05048

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04660	.03176	.22113	.04944	.00432	.09043	.00161
SDev	.00250	.00114	.00026	.05791	.00173	.00252	.00015
%RSD	5.3618	3.6017	.11585	117.13	39.965	2.7853	8.9772
#1	.04440	.03259	.22099	.10198	.00606	.09111	.00173
#2	.04931	.03046	.22098	.05898	.00261	.08764	.00145
#3	.04609	.03225	.22143	-.01265	.00429	.09253	.00166

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.49282	1.0006	.0525	.0463	.6008
SDev	.00145	.0008	.0007	.0024	.0016
%RSD	.29480	.07564	1.312	5.117	.2747
#1	.49239	1.0003	.0529	.0437	.5990
#2	.49163	.99999	.0517	.0471	.6021
#3	.49444	1.0014	.0529	.0482	.6013

Analysis Report QC Standard Thu 07-25-96 09:15:04 PM page 1

Method: EPA Sample Name: CCV_ Operator:
Run Time: 07/25/96 21:10:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	5.1289	1.0187	.99093	.99554	5.0855	.12482	2.5289
SDev	.0146	.0079	.00109	.00221	.0011	.00006	.0024
%RSD	.28378	.77245	.11040	.22155	.02130	.04873	.09340
#1	5.1432	1.0096	.99014	.99339	5.0853	.12487	2.5265
#2	5.1295	1.0226	.99218	.99779	5.0867	.12475	2.5312
#3	5.1141	1.0238	.99047	.99543	5.0845	.12484	2.5289

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.49771	12.845	.50430	1.2558	.61639	2.5223	1.0191
SDev	.00109	.011	.00092	.0018	.00065	.0129	.0017
%RSD	.21977	.08764	.18209	.14011	.10599	.50980	.16866
#1	.49685	12.838	.50336	1.2541	.61706	2.5347	1.0210
#2	.49733	12.838	.50435	1.2559	.61637	2.5233	1.0181
#3	.49894	12.858	.50520	1.2576	.61575	2.5090	1.0180

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.99789	12.401	1.2784	2.4592	1.2530	12.934	1.0238
SDev	.00385	.008	.0012	.0119	.0034	.015	.0023
%RSD	.38619	.06515	.09236	.48586	.27254	.11212	.22843
#1	.99344	12.392	1.2776	2.4477	1.2510	12.934	1.0212
#2	1.0001	12.405	1.2779	2.4585	1.2510	12.949	1.0257
#3	1.0001	12.407	1.2797	2.4715	1.2569	12.920	1.0245

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0099	2.5511	.63380	12.415	2.5269	1.0118	2.5930
SDev	.0041	.0024	.00084	.192	.0051	.0018	.0010
%RSD	.41019	.09521	.13239	1.5472	.20356	.18070	.03803
#1	1.0054	2.5537	.63476	12.630	2.5214	1.0098	2.5932
#2	1.0135	2.5508	.63342	12.260	2.5315	1.0122	2.5919
#3	1.0108	2.5489	.63321	12.355	2.5279	1.0134	2.5938

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.2709	1.2665	1.006	1.015	1.001
SDev	.0018	.0017	.002	.004	.003
%RSD	.13848	.13321	.1985	.3521	.3089
#1	1.2692	1.2660	1.004	1.011	.9973
#2	1.2710	1.2652	1.007	1.018	1.003
#3	1.2727	1.2684	1.007	1.016	1.002

Method: EPA Sample Name: CCB Operator:
Run Time: 07/25/96 21:15:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.02292	.00464	.00025	-.00069	.00070	-.00085	.00196
SDev	.00506	.00214	.00045	.00147	.00012	.00014	.00026
%RSD	22.089	46.098	178.60	211.63	16.498	15.954	13.153
#1	-.01716	.00590	.00002	.00018	.00076	-.00070	.00220
#2	-.02492	.00217	.00077	-.00239	.00076	-.00093	.00197
#3	-.02667	.00584	-.00003	.00013	.00056	-.00094	.00169

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00008	.04712	-.00009	.00013	.00069	.01240	.00072
SDev	.00020	.00291	.00028	.00034	.00020	.00496	.00089
%RSD	250.45	6.1704	295.78	252.54	28.535	40.008	123.79
#1	.00017	.05046	.00022	.00033	.00092	.01757	.00174
#2	.00021	.04579	-.00021	.00033	.00058	.00768	.00035
#3	-.00015	.04513	-.00030	-.00026	.00058	.01196	.00008

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00128	.02161	.00018	.00625	.00027	.00856	.00509
SDev	.00151	.00219	.00006	.00393	.00052	.00333	.00071
%RSD	118.06	10.130	33.056	62.918	191.34	38.942	13.845
#1	.00297	.02344	.00022	.01074	-.00032	.00475	.00437
#2	.00083	.01919	.00011	.00458	.00065	.01000	.00578
#3	.00005	.02220	.00021	.00342	.00049	.01094	.00512

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00082	.00420	-.00009	-.00650	.00426	-.00046	.00093
SDev	.00099	.00215	.00037	.01750	.00130	.00211	.00063
%RSD	121.16	51.293	427.61	269.06	30.513	459.89	66.976
#1	.00081	.00663	.00023	-.02667	.00507	.00142	.00164
#2	-.00017	.00345	.00000	.00459	.00493	-.00005	.00072
#3	.00182	.00252	-.00049	.00257	.00276	-.00274	.00045

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00033	.00015	.0018	.0029	.0023
SDev	.00043	.00022	.0014	.0006	.0004
%RSD	130.75	140.08	76.89	20.63	17.55
#1	.00082	-.00007	.0033	.0026	.0026
#2	.00019	.00035	.0013	.0024	.0019
#3	-.00001	.00018	.0007	.0036	.0026

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Method: EPA Sample Name: 240006 Operator:
Run Time: 07/25/96 21:20:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	487.48	.02325	.01958	.01470	.86399	.00018	5.1994
SDev	.22	.00128	.00496	.00333	.00026	.00016	.0022
%RSD	.04517	5.4986	25.354	22.667	.03070	92.121	.04184
#1	487.33	.02369	.02517	.01714	.86425	.00037	5.1984
#2	487.37	.02181	.01791	.01605	.86372	.00008	5.2019
#3	487.73	.02425	.01567	.01090	.86398	.00009	5.1980

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.13191	12.480	.10049	.01893	H49.169	103.68	5.2278
SDev	.00004	.013	.00053	.00043	.043	.08	.0112
%RSD	.03242	.10757	.52570	2.2914	.08730	.07801	.21449
#1	.13195	12.488	.10103	.01931	H49.123	103.72	5.2259
#2	.13187	12.465	.09998	.01846	H49.177	103.59	5.2176
#3	.13189	12.488	.10045	.01902	H49.208	103.74	5.2398

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	5.0785	2.9076	1.0001	.02673	.15272	.78058	.00116
SDev	.0254	.0042	.0007	.00144	.00081	.00545	.00557
%RSD	.49991	.14349	.06675	5.3883	.53233	.69865	479.90
#1	5.0492	2.9101	1.0007	.02832	.15273	.78645	.00684
#2	5.0912	2.9028	.99937	.02639	.15353	.77568	-.00430
#3	5.0950	2.9099	1.0001	.02550	.15191	.77960	.00094

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00722	6.5596	.02055	.36104	.66213	-.00477	.48634
SDev	.00471	.0437	.00040	.07355	.00228	.00184	.00060
%RSD	65.330	.66607	1.9467	20.371	.34409	38.500	.12238
#1	.00225	6.5159	.02062	.44506	.66431	-.00315	.48687
#2	.01163	6.5594	.02012	.32975	.66231	-.00676	.48570
#3	.00778	6.6033	.02091	.30832	.65976	-.00439	.48646

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.10062	H19.709	5.129	.0059	.0214
SDev	.00020	.030	.018	.0013	.0034
%RSD	.20063	.15094	.3530	22.28	15.96
#1	.10082	H19.705	5.109	.0044	.0253
#2	.10042	H19.681	5.134	.0070	.0198
#3	.10061	H19.741	5.144	.0062	.0191

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Method: EPA Sample Name: CRI Operator:
Run Time: 07/25/96 21:25:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	.00679	.11069	.10720	.01757	.00020	.00871	.00244
SDev	.01140	.00569	.00235	.00077	.00006	.00005	.00101
%RSD	167.96	5.1421	2.1901	4.3584	28.779	.56910	41.306
#1	.01695	.10413	.10449	.01680	.00026	.00877	.00346
#2	.00896	.11430	.10864	.01833	.00017	.00869	.00239
#3	-.00554	.11365	.10847	.01759	.00017	.00868	.00145

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01056	.02768	.01990	.10340	.05453	.02483	.00681
SDev	.00019	.00027	.00006	.00064	.00066	.00828	.00194
%RSD	1.7764	.96014	.32178	.62181	1.2067	33.335	28.519
#1	.01038	.02796	.01991	.10382	.05507	.03095	.00734
#2	.01055	.02764	.01984	.10372	.05474	.02813	.00465
#3	.01076	.02744	.01997	.10266	.05380	.01541	.00842

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00861	.00485	.03110	.00017	.08111	-.00360	.01122
SDev	.00248	.00207	.00012	.00055	.00116	.00547	.00224
%RSD	28.849	42.689	.37862	334.06	1.4351	152.14	19.976
#1	.00935	.00724	.03121	.00049	.08226	-.00401	.01165
#2	.01064	.00366	.03098	-.00047	.08112	.00207	.00880
#3	.00584	.00365	.03111	.00048	.07993	-.00885	.01322

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00974	.02216	.02082	-.02170	.00105	.02120	.00006
SDev	.00153	.00715	.00022	.00824	.00164	.00153	.00023
%RSD	15.653	32.273	1.0752	37.956	155.82	7.2329	359.65
#1	.01114	.03032	.02081	-.03075	.00294	.02296	.00031
#2	.00997	.01921	.02060	-.01465	.00027	.02047	-.00015
#3	.00811	.01696	.02105	-.01969	-.00005	.02016	.00004

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.09924	.04326	.0088	.0108	.1090
SDev	.00028	.00056	.0011	.0010	.0035
%RSD	.28705	1.3033	12.89	8.931	3.175
#1	.09947	.04377	.0095	.0119	.1050
#2	.09892	.04337	.0094	.0101	.1112
#3	.09932	.04265	.0075	.0104	.1108

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Method: EPA Sample Name: ICSA Operator:
Run Time: 07/25/96 21:30:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	459.67	.00482	.00660	-.00057	-.00231	.00037	.00133
SDev	.76	.00302	.00500	.00307	.00006	.00023	.00036
%RSD	.16625	62.696	75.692	539.75	2.4123	61.131	27.321
#1	460.55	.00145	.00942	-.00184	-.00236	.00061	.00103
#2	459.24	.00728	.00083	-.00279	-.00231	.00035	.00124
#3	459.21	.00574	.00955	.00293	-.00225	.00016	.00174

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00189	450.80	.00944	.00116	.00443	186.74	.00573
SDev	.00057	.26	.00024	.00032	.00062	.05	.00709
%RSD	30.164	.05816	2.5289	27.582	13.966	.02661	123.82
#1	.00187	450.50	.00932	.00113	.00514	186.71	.01254
#2	.00246	451.00	.00928	.00149	.00413	186.80	.00626
#3	.00133	450.89	.00971	.00085	.00401	186.72	-.00162

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00517	502.87	-.00201	.00162	.01079	.07134	-.00510
SDev	.00195	.57	.00009	.00016	.00063	.00546	.00899
%RSD	37.713	.11366	4.5074	10.143	5.8436	7.6503	176.22
#1	.00355	503.52	-.00206	.00163	.01092	.07502	.00326
#2	.00733	502.68	-.00191	.00178	.01135	.07392	-.00395
#3	.00462	502.43	-.00207	.00145	.01010	.06507	-.01461

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00091	.03308	.00006	.11064	.00526	.00243	-.00116
SDev	.00506	.00272	.00016	.03850	.00258	.00173	.00014
%RSD	556.12	8.2149	245.43	34.797	49.059	71.296	11.763
#1	-.00653	.03460	.00013	.11737	.00243	.00194	-.00109
#2	.00052	.03470	.00018	.14533	.00749	.00099	-.00108
#3	.00329	.02995	-.00012	.06922	.00587	.00435	-.00132

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00270	.00741	.0061	-.0016	.0067
SDev	.00059	.00026	.0024	.0012	.0027
%RSD	21.689	3.4901	39.89	73.72	40.78
#1	-.00272	.00764	.0073	-.0026	.0075
#2	-.00211	.00713	.0078	-.0003	.0037
#3	-.00328	.00747	.0033	-.0020	.0090

Method: EPA Sample Name: ICSAB Operator:
Run Time: 07/25/96 21:35:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	458.99	.61345	.59363	.09367	.53712	.48251	.00222
SDev	3.64	.00260	.00676	.00327	.00475	.00448	.00066
%RSD	.79211	.42361	1.1382	3.4911	.88390	.92758	29.726
#1	463.16	.61475	.60112	.09741	.54255	.48768	.00296
#2	457.28	.61046	.59179	.09230	.53500	.48010	.00200
#3	456.52	.61514	.58799	.09131	.53379	.47976	.00170

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.92047	449.56	.48466	.47037	.54116	185.92	.04629
SDev	.00827	3.70	.00479	.00482	.00497	1.74	.00215
%RSD	.89831	.82263	.98754	1.0239	.91802	.93757	4.6506
#1	.92980	453.83	.49017	.47580	.54669	187.93	.04841
#2	.91406	447.25	.48154	.46664	.53970	184.89	.04411
#3	.91755	447.61	.48226	.46865	.53708	184.92	.04637

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.05400	499.16	.49230	.00173	.92451	.00699	.04255
SDev	.00327	4.23	.00425	.00092	.00736	.00323	.00791
%RSD	6.0498	.84648	.86326	52.978	.79614	46.229	18.578
#1	.05107	504.04	.49720	.00236	.93301	.01067	.05059
#2	.05752	496.62	.48962	.00068	.92048	.00467	.04229
#3	.05342	496.82	.49007	.00216	.92005	.00561	.03479

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05129	.03688	.22002	-.01307	.00085	.08845	.00031
SDev	.00376	.00494	.00163	.03074	.00537	.00755	.00015
%RSD	7.3356	13.408	.74140	235.21	634.32	8.5335	47.633
#1	.04769	.04259	.22190	.01552	.00400	.08332	.00046
#2	.05099	.03393	.21911	-.00914	-.00536	.08490	.00030
#3	.05519	.03412	.21904	-.04558	.00389	.09711	.00017

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.49390	1.0013	.0524	.0491	.6009
SDev	.00492	.0068	.0014	.0003	.0047
%RSD	.99647	.68377	2.710	.5799	.7873
#1	.49957	1.0091	.0511	.0493	.6064
#2	.49074	.99647	.0539	.0488	.5987
#3	.49140	.99828	.0520	.0491	.5977

Analysis Report QC Standard Thu 07-25-96 09:44:41 PM page 1

Method: EPA Sample Name: CCV__ Operator:
Run Time: 07/25/96 21:39:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	5.2098	1.0333	1.0017	1.0069	5.1490	.12644	2.5535
SDev	.0114	.0038	.0017	.0023	.0055	.00006	.0021
%RSD	.21864	.36908	.16857	.22592	.10665	.04323	.08363
#1	5.2221	1.0334	1.0012	1.0057	5.1553	.12644	2.5537
#2	5.2078	1.0370	1.0004	1.0054	5.1462	.12638	2.5556
#3	5.1996	1.0294	1.0036	1.0095	5.1455	.12649	2.5513

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.50322	13.020	.51076	1.2729	.62889	2.5570	1.0325
SDev	.00159	.041	.00075	.0028	.00096	.0084	.0024
%RSD	.31568	.31789	.14632	.21653	.15306	.32784	.22802
#1	.50274	12.974	.51017	1.2700	.62996	2.5582	1.0350
#2	.50193	13.033	.51051	1.2754	.62809	2.5648	1.0303
#3	.50500	13.053	.51160	1.2734	.62861	2.5481	1.0323

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.0071	12.544	1.2942	2.4962	1.2689	13.037	1.0317
SDev	.0045	.017	.0028	.0160	.0006	.055	.0057
%RSD	.44660	.13327	.21933	.64228	.04385	.41906	.55394
#1	1.0019	12.525	1.2910	2.4780	1.2695	13.099	1.0284
#2	1.0098	12.547	1.2951	2.5020	1.2686	13.015	1.0383
#3	1.0096	12.558	1.2964	2.5085	1.2685	12.997	1.0284

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0206	2.5832	.64155	12.580	2.5555	1.0192	2.6232
SDev	.0033	.0031	.00035	.104	.0064	.0013	.0015
%RSD	.32226	.11968	.05401	.82986	.25151	.13211	.05550
#1	1.0170	2.5799	.64121	12.688	2.5484	1.0204	2.6218
#2	1.0234	2.5836	.64154	12.480	2.5609	1.0193	2.6231
#3	1.0216	2.5861	.64191	12.573	2.5573	1.0178	2.6247

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.2857	1.2800	1.016	1.025	1.013
SDev	.0013	.0044	.002	.004	.000
%RSD	.09939	.34723	.2240	.3701	.0306
#1	1.2847	1.2749	1.014	1.021	1.013
#2	1.2852	1.2823	1.017	1.029	1.013
#3	1.2871	1.2828	1.018	1.025	1.013

Analysis Report Thu 07-25-96 09:49:38 PM page 1

Method: EPA Sample Name: CCB Operator:
Run Time: 07/25/96 21:44:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.02460	.00407	-.00002	-.00003	.00065	-.00086	.00115
SDev	.00431	.00350	.00263	.00089	.00012	.00010	.00030
%RSD	17.501	85.997	13252.	3212.8	17.846	11.027	25.878
#1	-.02064	.00811	.00298	.00093	.00072	-.00077	.00100
#2	-.02399	.00199	-.00111	-.00018	.00072	-.00087	.00095
#3	-.02918	.00211	-.00193	-.00083	.00052	-.00096	.00149

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00002	.04697	-.00048	.00027	.00128	.00610	.00084
SDev	.00023	.00346	.00016	.00026	.00011	.00620	.00193
%RSD	1024.4	7.3589	34.015	96.120	8.4068	101.64	228.59
#1	-.00007	.05051	-.00060	-.00001	.00131	.01322	-.00043
#2	.00029	.04678	-.00030	.00050	.00137	.00183	.00306
#3	-.00015	.04361	-.00056	.00033	.00116	.00326	-.00010

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.00038	.01731	.00013	.00655	.00004	-.00254	.00610
SDev	.00065	.00123	.00003	.00379	.00076	.00663	.00210
%RSD	172.37	7.1279	22.168	57.802	1812.6	260.44	34.439
#1	.00099	.01697	.00012	.01073	.00049	-.00327	.00580
#2	.00045	.01869	.00017	.00558	.00047	.00442	.00416
#3	-.00031	.01629	.00011	.00334	-.00083	-.00878	.00833

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00232	.00334	-.00007	-.09578	.00376	.00042	.00081
SDev	.00186	.00109	.00027	.03259	.00341	.00052	.00052
%RSD	80.241	32.526	387.02	34.023	90.717	126.34	64.543
#1	.00318	.00346	-.00036	-.06098	.00587	.00084	.00138
#2	.00018	.00436	.00019	-.12558	.00559	-.00017	.00067
#3	.00361	.00220	-.00004	-.10078	-.00018	.00057	.00037

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	.00015	.0012	.0042	.0020
SDev	.00021	.00019	.0008	.0019	.0029
%RSD	1535.2	131.23	65.13	44.56	150.3
#1	-.00022	.00030	.0012	.0047	.0053
#2	.00019	-.00007	.0020	.0021	.0006
#3	-.00001	.00021	.0004	.0058	-.0000

Grant Maidel 07/25/96

CLP/Task IV ICP LABORATORY CHRMONCLE: METALS DEPARTMENT

SAS No. ----------

SDG No. ----------

Batch No. 2720 2659

Analysis Date ~~08/13/96~~ 08/14/96 08/14/96

Page 1 of 1

Run No. 1(2720)/2 (2659)

Instrument TJA TRACE ICAP-61E

Autosampler Table 5106L

Data File 5106L

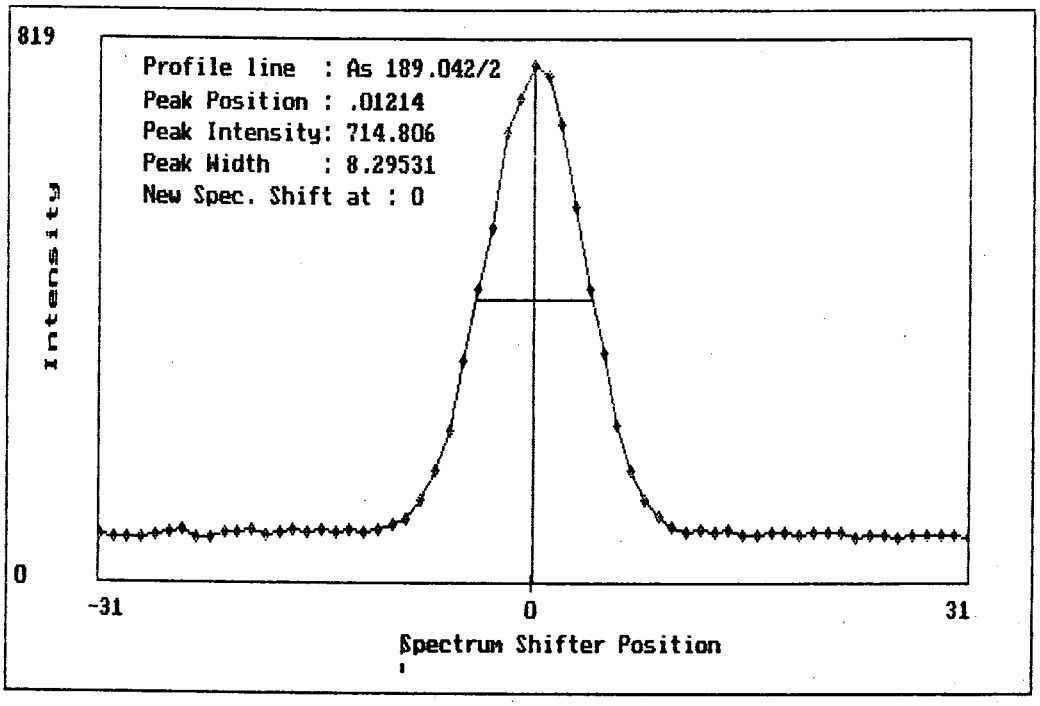
Analyst's Sign. [signature]

Reviewed by: [signature]

Standard	Lot No.	Conc.
Blank, ICB, CCB	ISH-29-1	0
Std #2, std#3	ISH-29-2	Multi
ICV	ISH-29-5	Multi
CCV	ISH-29-4	Multi
ICSA	ISH-207-2	Multi
ICSAB	ISH-207-1	Multi
CRI	ISH-207-3	Multi

EPA Sample No.	ICM Sample No.	Cup No.	DF	Comments
	ICV	QA3		
	ICB	1		
	CCV	QA4		
	CCB	2		
	CRI	3		
	ICSA	4		
	ICSAB	5		
	CCV	QA4		
	CCB	6		
	PBS	7		
	LCSS	8		
5106L	242011	9		
5106LL	242011L	10		
5106LD	242011D	11		
5106LS	242011S	12		
5606L	242004	13		
5506DL	242007	14		
5506L	242008	15		
0418L	240998	16		
	CCV	QA4		
	CCB	17		
	PBS2	18		
	LCSS2	19		
	239987	20		
	239987A	21		
	CRI	22		
	ICSA	23		
	ICSAB	24		
	CCV	QA5		
	CCB	25		

1292



Lynnet Maedel
08/14/96

Method: EPA Standard: SO

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Avge	.05832	-.01129	-.00112	-.00509	.00008	-.02773	.00163
SDev	.00067	.00243	.00129	.00094	.00008	.00015	.00052
%RSD	1.1468	21.475	114.52	18.491	99.962	.53239	31.579
#1	.05906	-.01240	-.00084	-.00472	.00008	-.02767	.00118
#2	.05815	-.00851	-.00253	-.00615	.00017	-.02790	.00219
#3	.05776	-.01297	.00000	-.00438	.00000	-.02762	.00152

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Avge	.00084	.04627	.00112	-.00056	.00936	-.00132	-.02543
SDev	.00110	.00007	.00046	.00013	.00021	.00026	.00070
%RSD	130.00	.15385	41.240	22.959	2.3026	19.424	2.7653
#1	.00017	.04624	.00059	-.00067	.00911	-.00127	-.02616
#2	.00211	.04635	.00135	-.00042	.00952	-.00110	-.02537
#3	.00025	.04622	.00143	-.00059	.00943	-.00160	-.02475

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Avge	.00090	.00028	.00042	.00053	-.00118	-.07434	-.00568
SDev	.00173	.00038	.00008	.00010	.00334	.00008	.00082
%RSD	192.20	135.35	19.897	18.150	283.33	.11336	14.447
#1	.00194	-.00008	.00034	.00042	.00177	-.07425	-.00548
#2	-.00110	.00067	.00042	.00059	-.00051	-.07442	-.00657
#3	.00185	.00025	.00051	.00059	-.00480	-.07434	-.00497

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Avge	.00711	.10280	.00087	-.02972	-.00070	-.00320	.00070
SDev	.00072	.00079	.00027	.00070	.00144	.00132	.00005
%RSD	10.175	.76732	31.094	2.3406	204.41	41.119	7.0261
#1	.00793	.10353	.00067	-.03046	-.00236	-.00405	.00076
#2	.00657	.10290	.00118	-.02908	.00008	-.00169	.00067
#3	.00682	.10196	.00076	-.02964	.00017	-.00387	.00067

Elem	V_2924	Zn2138
Avge	.00017	.00169
SDev	.00008	.00009
%RSD	50.014	5.0605
#1	.00017	.00177
#2	.00025	.00160
#3	.00008	.00168

Method: EPA Standard: S

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Avge	2.3643	3.2888	2.3376	2.9445	18.376	1.2660	4.0930
SDev	.0027	.0163	.0065	.0096	.028	.0030	.0105
%RSD	.11220	.49476	.27713	.32678	.15374	.23994	.25595
#1	2.3644	3.2742	2.3434	2.9339	18.387	1.2639	4.0867
#2	2.3616	3.2857	2.3306	2.9470	18.344	1.2647	4.0873
#3	2.3669	3.3064	2.3388	2.9526	18.397	1.2695	4.1051

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Avge	8.3434	3.9119	1.9767	2.5575	2.1311	.31146	6.0471
SDev	.0364	.0161	.0075	.0092	.0050	.00147	.0061
%RSD	.43589	.41138	.37729	.35804	.23566	.47296	.10092
#1	8.3116	3.8953	1.9689	2.5480	2.1346	.30984	6.0422
#2	8.3355	3.9128	1.9776	2.5582	2.1253	.31181	6.0452
#3	8.3830	3.9274	1.9837	2.5663	2.1333	.31272	6.0540

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Avge	5.4458	3.6292	4.2810	8.4460	9.2829	15.180	1.8155
SDev	.0321	.0070	.0130	.0416	.0266	.051	.0059
%RSD	.58867	.19340	.30417	.49306	.28636	.33736	.32276
#1	5.4093	3.6230	4.2684	8.4013	9.2557	15.220	1.8090
#2	5.4588	3.6279	4.2800	8.4531	9.2842	15.122	1.8173
#3	5.4693	3.6368	4.2944	8.4837	9.3088	15.197	1.8203

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Avge	2.1414	3.7613	2.4399	.51216	6.8394	1.8607	16.386
SDev	.0159	.0061	.0045	.00084	.0276	.0054	.024
%RSD	.74172	.16114	.18503	.16462	.40333	.28886	.14750
#1	2.1360	3.7572	2.4393	.51234	6.8085	1.8592	16.373
#2	2.1289	3.7584	2.4358	.51289	6.8478	1.8667	16.371
#3	2.1592	3.7682	2.4447	.51124	6.8617	1.8563	16.414

Elem	V_2924	Zn2138
Avge	1.0461	2.4272
SDev	.0023	.0084
%RSD	.22270	.34467
#1	1.0444	2.4200
#2	1.0452	2.4251
#3	1.0488	2.4364

Analysis Report QC Standard Wed 08-14-96 10:00:32 AM page 1

Method: EPA Sample Name: ICV Operator: LKM
Run Time: 08/14/96 09:56:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	3.958995	.5092628	.5113980	.5102130	4.101742	.1019519	2.074806
SDev	.012737	.0019085	.0027779	.0008974	.011626	.0001284	.004850
%RSD	.3217210	.3747632	.5431967	.1758877	.2834479	.1259718	.2337602
#1	3.971183	.5101081	.5131636	.5094981	4.114399	.1020451	2.080383
#2	3.960028	.5106027	.5081959	.5112200	4.099292	.1018054	2.071573
#3	3.945773	.5070776	.5128343	.5099208	4.091537	.1020052	2.072463

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.1015142	10.05369	.4026587	1.007808	.4991391	1.994509	.5015939
SDev	.0000416	.03566	.0011652	.001325	.0016280	.002951	.0021834
%RSD	.0409787	.3547249	.2893799	.1315192	.3261580	.1479502	.4353009
#1	.1014774	10.01657	.4015566	1.006396	.5005904	1.993427	.4998499
#2	.1015059	10.05680	.4025413	1.008001	.4994482	1.992253	.5008891
#3	.1015594	10.08769	.4038781	1.009026	.4973787	1.997848	.5040427

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.5029918	10.04725	1.014652	2.067503	1.015985	10.31913	.5021975
SDev	.0008336	.00972	.001700	.002548	.000587	.05492	.0044444
%RSD	.1657284	.0966972	.1675088	.1232550	.0577315	.5321742	.8849986
#1	.5021429	10.03632	1.013181	2.070387	1.016662	10.37376	.5034245
#2	.5038092	10.05051	1.014262	2.065553	1.015632	10.31970	.4972685
#3	.5030233	10.05492	1.016513	2.066571	1.015661	10.26393	.5058995

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5059391	1.971654	.2614829	9.707708	2.032775	.5126094	2.039580
SDev	.0008264	.001668	.0003287	.051278	.001834	.0038857	.001247
%RSD	.1633501	.0846159	.1257243	.5282153	.0902076	.7580220	.0611213
#1	.5051068	1.973390	.2616715	9.766208	2.031274	.5089327	2.040747
#2	.5059509	1.971510	.2611034	9.670535	2.034819	.5122207	2.038267
#3	.5067595	1.970062	.2616740	9.686383	2.032232	.5166749	2.039725

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.006588	1.029450	.5033147	.5053690	.5113347
SDev	.001183	.002203	.0010391	.0017114	.0016336
%RSD	.1174899	.2140314	.2064440	.3386378	.3194773
#1	1.005427	1.027062	.5021423	.5052248	.5128243
#2	1.006546	1.029885	.5036801	.5037342	.5095876
#3	1.007791	1.031403	.5041217	.5071478	.5115920

Analysis Report Wed 08-14-96 10:04:55 AM page 1

Method: EPA Sample Name: ICB Operator: LKM
Run Time: 08/14/96 10:00:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.005178	.0023933	.0017878	-.000293	.0004542	.0000824	.0011653
SDev	.001003	.0022262	.0020738	.000778	.0000274	.0000281	.0007080
%RSD	19.37803	93.01653	115.9986	266.0800	6.033839	34.13134	60.75712
#1	-.005015	.0003169	.0003595	-.001176	.0004704	.0000928	.0017239
#2	-.004267	.0021192	.0008374	.0002939	.0004696	.0000505	.0003690
#3	-.006253	.0047439	.0041665	.0000041	.0004226	.0001038	.0014029

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0000501	.0012179	-.000249	-.000128	.0001047	.0014164	-.000150
SDev	.0001009	.0003426	.000050	.000594	.0001008	.0066128	.000526
%RSD	201.2052	28.13280	20.26540	464.5354	96.30876	466.8884	351.4605
#1	.0000024	.0008302	-.000219	-.000807	.0000267	-.002394	.0002294
#2	-.000018	.0014801	-.000307	.0001268	.0000689	-.002409	-.000750
#3	.0001660	.0013433	-.000220	.0002963	.0002186	.0090521	.0000718

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	-.000293	-.002133	.0000726	.0060101	-.000287	.0009290	-.005216
SDev	.000575	.001372	.0000289	.0032186	.000894	.0102565	.001818
%RSD	195.9766	64.32537	39.75841	53.55445	311.2854	1104.013	34.86260
#1	.0000561	-.003717	.0000562	.0096405	-.001009	-.008348	-.007313
#2	.0000208	-.001341	.0001060	.0048839	.0007124	-.000808	-.004265
#3	-.000957	-.001340	.0000557	.0035058	-.000565	.0119432	-.004070

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022159	-.001373	-.000152	.0600660	.0018376	-.000105	.0010304
SDev	.0024426	.000772	.000331	.0431625	.0007751	.000592	.0003195
%RSD	110.2271	56.22788	217.5176	71.85841	42.18216	564.9915	31.01073
#1	.0006919	-.001989	-.000491	.0705002	.0024065	.0005701	.0013915
#2	.0009227	-.001623	-.000137	.0126429	.0009547	-.000537	.0009158
#3	.0050332	-.000507	.0001712	.0970549	.0021515	-.000347	.0007840

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0001459	.0011993	.0005010	.0004015	.0026498
SDev	.0001177	.0000843	.0003234	.0019950	.0021361
%RSD	80.63841	7.032366	64.55875	496.8678	80.61448
#1	.0002144	.0011174	.0008037	-.001284	.0009490
#2	.0002133	.0011945	.0005389	-.000116	.0019531
#3	.0000101	.0012859	.0001602	.0026044	.0050473

Analysis Report QC Standard Wed 08-14-96 10:09:18 AM page 1

Method: EPA Sample Name: CCV Operator: LKM
Run Time: 08/14/96 10:05:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	5.202390	1.018868	1.023529	1.031215	5.236528	.1250186	2.568895
SDev	.002939	.012459	.004582	.000459	.003676	.0001563	.008513
%RSD	.0564996	1.222798	.4476863	.0445548	.0701948	.1250136	.3314062
#1	5.199785	1.004485	1.028807	1.030686	5.232379	.1248384	2.561069
#2	5.205576	1.026324	1.021211	1.031443	5.239378	.1250990	2.577960
#3	5.201808	1.025794	1.020569	1.031515	5.237827	.1251183	2.567655

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.5165709	12.89101	.5131859	1.288782	.6375783	2.572066	1.036818
SDev	.0007470	.01641	.0003436	.001354	.0001629	.011321	.002311
%RSD	.1446044	.1273076	.0669469	.1050524	.0255413	.4401395	.2229025
#1	.5169650	12.87546	.5129778	1.287312	.6373944	2.567346	1.038174
#2	.5157094	12.88940	.5129974	1.289977	.6376362	2.563869	1.038130
#3	.5170383	12.90817	.5135825	1.289057	.6377042	2.584983	1.034150

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.037086	12.90282	1.288693	2.577198	1.291791	Q13.89551	1.032635
SDev	.006224	.01320	.001824	.011736	.001841	.01546	.002465
%RSD	.6001178	.1022934	.1415203	.4553746	.1424939	.1112840	.2387577
#1	1.031209	12.89480	1.286663	2.563788	1.290023	Q13.89223	1.035351
#2	1.043606	12.91805	1.289222	2.582213	1.293697	Q13.91234	1.030538
#3	1.036444	12.89560	1.290193	2.585594	1.291654	Q13.88194	1.032016

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.034092	2.575274	.6446208	12.68798	2.613732	1.032309	2.580030
SDev	.005014	.001975	.0007922	.07283	.008396	.002963	.002138
%RSD	.4849165	.0766900	.1228872	.5739992	.3212391	.2870673	.0828832
#1	1.028420	2.573325	.6437066	12.68812	2.604995	1.028978	2.577645
#2	1.035916	2.577274	.6451017	12.76073	2.614459	1.034653	2.581778
#3	1.037939	2.575222	.6450543	12.61507	2.621741	1.033295	2.580666

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.280812	1.317619	1.037771	1.034295	1.022665
SDev	.001203	.001280	.004283	.002657	.001140
%RSD	.0939533	.0971169	.4126741	.2569267	.1115046
#1	1.279459	1.316153	1.034302	1.031416	1.021395
#2	1.281763	1.318188	1.042558	1.034814	1.023602
#3	1.281214	1.318515	1.036454	1.036654	1.022997

Analysis Report Wed 08-14-96 10:13:41 AM page 1

Method: EPA Sample Name: CCB Operator: LKM
Run Time: 08/14/96 10:09:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.004486	.0071124	.0053154	-.001019	.0005227	.0000948	.0013070
SDev	.001172	.0046551	.0008948	.001511	.0001265	.0000224	.0010509
%RSD	26.13101	65.45058	16.83323	148.2575	24.20029	23.67143	80.40964
#1	-.003732	.0123922	.0063485	.0007230	.0006661	.0001002	.0025189
#2	-.005837	.0035988	.0048102	-.001806	.0004750	.0001140	.0007554
#3	-.003890	.0053463	.0047876	-.001975	.0004270	.0000701	.0006466

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0001880	.0000320	.0001516	.0002069	.0005053	-.002693	.0032747
SDev	.0000150	.0008508	.0005523	.0003700	.0002456	.004432	.0029341
%RSD	7.991159	2660.761	364.2842	178.8593	48.60674	164.5949	89.59714
#1	.0001720	.0008414	.0007116	.0006315	.0006545	-.007141	.0041860
#2	.0002018	.0001094	.0001360	.0000363	.0006395	-.002660	.0056451
#3	.0001903	-.000855	-.000393	-.000047	.0002218	.0017231	-.000007

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	-.001881	-.003132	.0000759	.0090704	.0002398	-.006738	-.001863
SDev	.000932	.001796	.0000590	.0063224	.0003971	.006994	.001527
%RSD	49.52782	57.35640	77.73967	69.70391	165.5744	103.7965	81.97098
#1	-.001018	-.001335	.0001104	.0161561	.0005766	-.005390	-.003539
#2	-.002869	-.003133	.0001096	.0070500	.0003409	-.000516	-.000552
#3	-.001756	-.004927	.0000078	.0040051	-.000198	-.014308	-.001497

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019016	-.000584	.0000746	-.006079	.0051457	-.000550	.0014339
SDev	.0006622	.001901	.0004650	.056304	.0031939	.001071	.0009357
%RSD	34.82535	325.7293	623.0562	926.1297	62.06809	194.6764	65.25326
#1	.0026521	.0014000	.0004477	-.017064	.0082991	-.001433	.0024742
#2	.0016532	-.000761	.0002225	.0549073	.0052252	-.000859	.0011666
#3	.0013995	-.002390	-.000446	-.056082	.0019129	.0006412	.0006610

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0002210	.0008980	.0005900	.0013153	.0066101
SDev	.0003614	.0001070	.0009477	.0002618	.0021394
%RSD	163.5053	11.91427	160.6321	19.90548	32.36562
#1	.0006383	.0009629	.0014996	.0012009	.0090588
#2	.0000126	.0009565	.0006620	.0016149	.0051028
#3	.0000122	.0007745	-.000392	.0011302	.0056688

Analysis Report Wed 08-14-96 10:18:04 AM page 1

Method: EPA Sample Name: CRI Operator: LKM
Run Time: 08/14/96 10:13:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.003195	.1174078	.1158389	.0201450	.0002022	.0101993	.0003270
SDev	.002966	.0004174	.0019866	.0019344	.0000541	.0000865	.0001026
%RSD	92.82248	.3554798	1.714926	9.602106	26.76394	.8477331	31.39153
#1	.0002026	.1176065	.1137406	.0206015	.0002339	.0102982	.0003279
#2	-.005265	.1176886	.1176908	.0218103	.0002329	.0101619	.0002239
#3	-.004523	.1169282	.1160852	.0180233	.0001397	.0101378	.0004291

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0106430	.0004198	.0204197	.1045940	.0511463	-.000332	.0104138
SDev	.0000945	.0003283	.0003282	.0006549	.0000673	.006217	.0017328
%RSD	.8882334	78.21284	1.607365	.6261367	.1315884	1874.176	16.63907
#1	.0106358	.0000463	.0200797	.1042403	.0511349	-.007469	.0102402
#2	.0105523	.0005500	.0207347	.1053498	.0512185	.0039008	.0122268
#3	.0107410	.0006629	.0204447	.1041921	.0510854	.0025732	.0087744

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.0055566	-.000168	.0311446	.0026011	.0831121	.0039330	.0029895
SDev	.0010904	.001177	.0000928	.0001831	.0002065	.0018478	.0014000
%RSD	19.62306	701.4865	.2981156	7.037931	.2484416	46.98192	46.83197
#1	.0043241	-.000163	.0310407	.0027790	.0829582	.0052538	.0044196
#2	.0063957	.0010068	.0312195	.0024133	.0830314	.0047237	.0029275
#3	.0059499	-.001347	.0311735	.0026111	.0833468	.0018214	.0016215

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0111818	-.001081	.0206582	.1268914	.0034516	.0191491	.0003898
SDev	.0015296	.000683	.0002250	.0116068	.0008339	.0015602	.0000313
%RSD	13.67944	63.22121	1.089117	9.147065	24.15841	8.147656	8.021068
#1	.0108608	-.001669	.0204159	.1402383	.0027721	.0184306	.0004092
#2	.0098382	-.000332	.0208605	.1212735	.0032007	.0209392	.0004066
#3	.0128464	-.001241	.0206983	.1191625	.0043821	.0180777	.0003538

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0989746	.0429836	.0079999	.0091373	.1170448
SDev	.0001597	.0001663	.0010859	.0008180	.0013297
%RSD	.1613519	.3867831	13.57390	8.951856	1.136077
#1	.0988685	.0431533	.0070655	.0094015	.1157136
#2	.0988970	.0429764	.0091912	.0082199	.1183730
#3	.0991582	.0428210	.0077429	.0097905	.1170478

Analysis Report Wed 08-14-96 10:22:26 AM page 1

Method: EPA Sample Name: ICSA Operator: LKM
Run Time: 08/14/96 10:18:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	462.8151	.0005471	-.002783	-.001843	-.002532	.0013795	.0017430
SDev	.6824	.0074259	.001208	.004604	.000055	.0000486	.0010439
%RSD	.1474354	1357.272	43.39063	249.8671	2.168220	3.521800	59.88881
#1	462.1213	-.005242	-.002090	-.000578	-.002475	.0014214	.0026982
#2	463.4854	.0089198	-.004177	-.006947	-.002536	.0013908	.0006287
#3	462.8385	-.002037	-.002082	.0019975	-.002584	.0013262	.0019020

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0015992	457.0375	.0008293	.0003386	-.002510	195.8461	.0033468
SDev	.0001974	1.3179	.0004785	.0011699	.000447	.4578	.0083650
%RSD	12.34240	.2883501	57.70014	345.5060	17.79208	.2337771	249.9374
#1	.0013860	455.5618	.0012929	-.000556	-.001998	195.3919	.0113898
#2	.0016359	458.0972	.0003371	-.000091	-.002818	196.3074	-.005307
#3	.0017756	457.4535	.0008580	.0016626	-.002714	195.8390	.0039575

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	-.001231	519.0494	-.005575	.0003142	.0024944	.0005056	-.008531
SDev	.006012	.8559	.000175	.0019845	.0010245	.0018714	.017262
%RSD	488.5896	.1649046	3.133486	631.5513	41.07301	370.1530	202.3512
#1	-.007167	518.3547	-.005534	.0005214	.0018064	-.000572	.0113077
#2	.0048552	520.0055	-.005766	-.001766	.0036718	.0026665	-.016777
#3	-.001380	518.7879	-.005424	.0021869	.0020048	-.000578	-.020122

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.005444	.0209933	-.000318	.2453855	.0032938	-.003858	-.001625
SDev	.001501	.0024943	.000362	.0297807	.0026195	.006378	.000214
%RSD	27.57517	11.88129	113.9784	12.13627	79.52982	165.3277	13.17529
#1	-.005290	.0220362	-.000108	.2181911	.0038291	-.004164	-.001542
#2	-.004026	.0181468	-.000736	.2772100	.0004479	L-.010078	-.001869
#3	-.007017	.0227968	-.000109	.2407555	.0056043	.0026679	-.001466

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.000110	.0022805	.0011410	L-.005719	-.000952
SDev	.000590	.0001510	.0012319	.006016	.001645
%RSD	537.9590	6.622886	107.9651	105.1964	172.6776
#1	.0003284	.0023368	-.000139	.0009917	-.002385
#2	-.000780	.0021095	.0023189	L-.007519	.0008432
#3	.0001230	.0023954	.0012427	L-.010629	-.001315

Analysis Report Wed 08-14-96 10:26:49 AM page 1

Method: EPA Sample Name: ICSAB Operator: LKM
Run Time: 08/14/96 10:22:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	436.9750	.5914030	.5835964	.0911540	.5290453	.4650547	.0008912
SDev	.4752	.0066057	.0014086	.0014416	.0009264	.0012857	.0004701
%RSD	.1087416	1.116952	.2413654	1.581497	.1750999	.2764654	52.74884
#1	437.5066	.5837844	.5850360	.0899823	.5300668	.4635909	.0008794
#2	436.8267	.5948917	.5835323	.0907158	.5288094	.4660011	.0013672
#3	436.5917	.5955329	.5822210	.0927638	.5282598	.4655722	.0004272

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.9229547	435.1989	.4786529	.4609436	.5343925	184.6302	.0533993
SDev	.0033933	1.7640	.0022457	.0003773	.0010270	.6129	.0020432
%RSD	.3676598	.4053279	.4691792	.0818472	.1921829	.3319344	3.826352
#1	.9190986	433.1890	.4760649	.4611852	.5355578	183.9239	.0537362
#2	.9254848	436.4899	.4798047	.4611368	.5340001	185.0215	.0552531
#3	.9242809	435.9178	.4800891	.4605089	.5336195	184.9452	.0512085

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.0415266	482.3097	.4804834	.0005572	.9097921	-.001320	.0444856
SDev	.0028997	.8912	.0014523	.0006492	.0049116	.004310	.0013047
%RSD	6.982657	.1847791	.3022598	116.5220	.5398563	326.4815	2.932941
#1	.0387317	481.3043	.4788334	.0012489	.9055474	-.002404	.0457935
#2	.0413273	483.0026	.4815679	.0004617	.9151718	.0034285	.0431841
#3	.0445208	482.6222	.4810489	-.000039	.9086569	-.004985	.0444791

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0458949	.0208108	.2150329	.2932303	-.000011	.0820549	-.001170
SDev	.0024378	.0013187	.0004074	.0722181	.003659	.0029126	.000215
%RSD	5.311765	6.336601	.1894558	24.62847	31859.11	3.549557	18.41004
#1	.0465613	.0193720	.2147448	.2956862	-.001487	.0787638	-.001414
#2	.0431931	.0210984	.2154990	.3641892	.0041551	.0843002	-.001006
#3	.0479302	.0219620	.2148550	.2198155	-.002702	.0831008	-.001091

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.4868003	.9976422	.0464195	.0462083	.5869161
SDev	.0015571	.0027502	.0015627	.0018970	.0013652
%RSD	.3198554	.2756656	3.366518	4.105440	.2326137
#1	.4852180	.9947964	.0446722	.0470608	.5853744
#2	.4883308	1.000285	.0469029	.0440345	.5879718
#3	.4868521	.9978448	.0476834	.0475295	.5874023

Analysis Report QC Standard Wed 08-14-96 10:31:12 AM page 1

Method: EPA Sample Name: CCV Operator: LKM
Run Time: 08/14/96 10:27:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	5.168688	1.008858	1.010327	1.019859	5.166575	.1239553	2.538206
SDev	.016270	.007193	.002524	.001484	.010875	.0004248	.007837
%RSD	.3147819	.7130074	.2497891	.1455010	.2104884	.3426714	.3087598
#1	5.187358	1.001691	1.007925	1.018152	5.172363	.1236390	2.534360
#2	5.157542	1.016077	1.012957	1.020844	5.154030	.1244381	2.533035
#3	5.161163	1.008805	1.010098	1.020581	5.173332	.1237888	2.547223

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.5129426	12.81913	.5098988	1.278356	.6287323	2.564473	1.022255
SDev	.0018333	.05501	.0021623	.004153	.0021471	.016707	.002836
%RSD	.3574124	.4291162	.4240733	.3248997	.3415030	.6514745	.2773900
#1	.5114570	12.78366	.5080401	1.274310	.6301792	2.572938	1.022963
#2	.5149915	12.88250	.5122720	1.282609	.6262653	2.575254	1.019132
#3	.5123794	12.79123	.5093843	1.278149	.6297525	2.545228	1.024668

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.032176	12.72442	1.276856	2.553708	1.278204	13.71259	1.020885
SDev	.006986	.01630	.002849	.010931	.002750	.03991	.006764
%RSD	.6767912	.1281011	.2231264	.4280563	.2151590	.2910462	.6625693
#1	1.029369	12.70982	1.275508	2.541686	1.275828	13.74138	1.028696
#2	1.040128	12.74201	1.280129	2.563049	1.281216	13.66703	1.017011
#3	1.027030	12.72145	1.274931	2.556391	1.277566	13.72936	1.016949

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.025948	2.544858	.6385824	12.61276	2.594936	1.026113	2.553909
SDev	.010697	.003973	.0004461	.06400	.007953	.005081	.002055
%RSD	1.042651	.1561010	.0698559	.5073881	.3064921	.4951321	.0804731
#1	1.021705	2.546660	.6390902	12.58001	2.586279	1.020476	2.551696
#2	1.038115	2.540303	.6382536	12.68650	2.601919	1.027523	2.555758
#3	1.018023	2.547609	.6384034	12.57176	2.596609	1.030339	2.554274

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.270490	1.305204	1.029664	1.024941	1.010488
SDev	.002042	.002174	.003696	.006714	.004078
%RSD	.1607107	.1665975	.3589739	.6550391	.4035751
#1	1.270022	1.302979	1.027999	1.024711	1.006528
#2	1.272725	1.307325	1.033899	1.031766	1.014674
#3	1.268723	1.305307	1.027093	1.018344	1.010262

Analysis Report Wed 08-14-96 10:35:35 AM page 1

Method: EPA Sample Name: CCB Operator: LKM
Run Time: 08/14/96 10:31:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	.0011873	.0047191	.0039588	-.000618	.0004003	.0000709	.0010282
SDev	.0026986	.0045137	.0020460	.000539	.0000271	.0001218	.0006223
%RSD	227.2894	95.64906	51.68349	87.26108	6.781121	171.9183	60.51864
#1	.0035489	.0083903	.0058388	-.000008	.0004159	.0002114	.0017006
#2	.0017671	.0060875	.0017797	-.000813	.0004160	-.000005	.0009114
#3	-.001754	-.000321	.0042579	-.001033	.0003689	.0000062	.0004727

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0002748	.0113643	.0000179	-.000006	-.000016	.0017180	.0021444
SDev	.0001270	.0009521	.0001930	.000348	.000134	.0063607	.0017036
%RSD	46.21546	8.377996	1079.677	5397.371	857.1082	370.2487	79.44640
#1	.0004072	.0124614	-.000182	-.000119	.0001375	.0021755	.0008357
#2	.0001539	.0108771	.0000328	-.000284	-.000111	-.004859	.0015268
#3	.0002634	.0107544	.0002029	.0003839	-.000073	.0078376	.0040707

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	-.000332	.0099439	.0000179	.0082052	.0002102	.0011391	-.004573
SDev	.001010	.0022073	.0000284	.0053335	.0008374	.0054867	.002608
%RSD	304.3527	22.19737	158.3375	65.00138	398.3278	481.6501	57.02661
#1	.0000236	.0115105	.0000015	.0141521	-.000026	-.002358	-.006349
#2	.0004526	.0074195	.0000015	.0066181	-.000484	-.001687	-.005793
#3	-.001472	.0109017	.0000506	.0038455	.0011403	.0074628	-.001579

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010772	-.003538	.0001039	.0805378	.0038036	.0007683	.0011402
SDev	.0043663	.001950	.0004124	.0473634	.0024772	.0011051	.0006761
%RSD	405.3278	55.11422	396.8820	58.80893	65.12679	143.8464	59.29758
#1	.0046274	-.001421	.0001190	.1269769	.0066603	.0011630	.0019090
#2	.0024023	-.005260	-.000316	.0323013	.0025013	-.000480	.0008733
#3	-.003798	-.003932	.0005085	.0823351	.0022493	.0016218	.0006382

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0004752	.0005951	.0011993	-.000126	.0048904
SDev	.0002345	.0000581	.0002640	.002059	.0021586
%RSD	49.34569	9.756529	22.01148	1633.915	44.13897
#1	.0006107	.0006267	.0009729	.0016512	.0073673
#2	.0002044	.0006305	.0014892	.0003524	.0038931
#3	.0006105	.0005281	.0011358	-.002382	.0034108

Method: EPA Sample Name: PBS Operator: LKM
Run Time: 08/14/96 10:35:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.006744	.0024943	.0013877	.0008546	.0001686	-.000014	-.000021
SDev	.000539	.0020500	.0019638	.0025606	.0001062	.000066	.000206
%RSD	7.998194	82.18891	141.5166	299.6027	62.98988	458.8985	988.2181
#1	-.007367	.0022062	.0033862	.0023586	.0002306	.0000578	-.000202
#2	-.006433	.0046731	.0013164	.0023073	.0002292	-.000030	.0002029
#3	-.006432	.0006036	-.000540	-.002102	.0000460	-.000071	-.000064

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0001449	.0041084	.0000724	.0002476	-.000091	-.001002	.0016268
SDev	.0002729	.0014879	.0002269	.0002082	.000100	.005357	.0001724
%RSD	188.3273	36.21680	313.2379	84.08136	110.5444	534.7510	10.59756
#1	-.000161	.0046415	.0002456	.0004680	.0000250	-.003428	.0014325
#2	.0003627	.0052564	.0001561	.0000543	-.000152	.0051389	.0016867
#3	.0002334	.0024274	-.000184	.0002204	-.000145	-.004716	.0017613

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	-.001277	.0029127	-.000049	.0015664	.0007352	.0047450	-.004579
SDev	.001250	.0026886	.000000	.0006995	.0001846	.0049553	.002841
%RSD	97.88679	92.30411	.9190155	44.65662	25.11302	104.4317	62.03927
#1	-.002712	.0044809	-.000048	.0017892	.0005237	.0069412	-.001299
#2	-.000698	.0044491	-.000049	.0021274	.0008177	.0082226	-.006163
#3	-.000422	-.000192	-.000049	.0007827	.0008641	-.000929	-.006275

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003018	-.003801	.0000005	.0813598	.0009286	-.000278	.0002750
SDev	.0012094	.000309	.0002634	.0337110	.0013339	.001414	.0002451
%RSD	400.7525	8.141593	51937.61	41.43449	143.6520	509.3751	89.13538
#1	.0014295	-.003743	-.000056	.0984162	.0024351	.0004369	.0003022
#2	-.000975	-.003525	.0002875	.0425291	-.000102	.0006368	.0005053
#3	.0004513	-.004136	-.000230	.1031341	.0004529	-.001907	.0000174

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0003364	.0003783	.0003651	-.000648	.0023753
SDev	.0001178	.0000945	.0008894	.001663	.0017141
%RSD	35.01909	24.97606	243.6261	256.5864	72.16296
#1	.0004057	.0002692	-.000655	.0011981	.0036705
#2	.0004032	.0004304	.0007699	-.002029	.0030238
#3	.0002004	.0004352	.0009800	-.001114	.0004316

Method: EPA Sample Name: LCSS Operator: LKM
Run Time: 08/14/96 10:40:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	36.18161	.1618037	.1617206	.4372729	.5551598	.7805431	.2755931
SDev	.03790	.0025769	.0024026	.0017398	.0003902	.0007277	.0011926
%RSD	.1047372	1.592597	1.485641	.3978703	.0702899	.0932334	.4327558
#1	36.19609	.1596995	.1604005	.4353622	.5553991	.7806222	.2764750
#2	36.21014	.1610339	.1644938	.4387657	.5547095	.7812280	.2742361
#3	36.13862	.1646778	.1602675	.4376907	.5553708	.7797790	.2760682

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.6474843	12.73101	.5504652	.9856263	.5900415	58.31647	.4372353
SDev	.0013995	.02737	.0010875	.0029968	.0005308	.08124	.0028219
%RSD	.2161438	.2149998	.1975621	.3040479	.0899624	.1393110	.6453994
#1	.6480728	12.71523	.5502980	.9864762	.5905708	58.26801	.4390616
#2	.6484935	12.76262	.5516266	.9881063	.5900446	58.41026	.4386591
#3	.6458867	12.71518	.5494709	.9822964	.5895092	58.27114	.4339851

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.4410594	10.15053	1.085993	.4499018	.8986545	11.43282	.5260007
SDev	.0025898	.01356	.001195	.0031025	.0014510	.01197	.0025902
%RSD	.5871870	.1335406	.1100042	.6896057	.1614673	.1046820	.4924288
#1	.4395873	10.15013	1.085540	.4463506	.8984516	11.44179	.5236719
#2	.4395412	10.16427	1.087348	.4520869	.9001964	11.43743	.5287904
#3	.4440498	10.13717	1.085091	.4512678	.8973157	11.41923	.5255399

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5376365	1.157548	.3578594	1.051857	.5764623	.8588296	1.939379
SDev	.0023307	.001156	.0007547	.112749	.0033865	.0008006	.001118
%RSD	.4334999	.0998509	.2108811	10.71902	.5874625	.0932206	.0576305
#1	.5349455	1.156231	.3575877	1.039192	.5779754	.8579059	1.940234
#2	.5390116	1.158396	.3587123	1.170404	.5788285	.8593236	1.939789
#3	.5389525	1.158016	.3572782	.9459763	.5725831	.8592593	1.938114

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.3983022	.8160306	.4406937	.5344709	.1624007
SDev	.0007913	.0021837	.0007447	.0023083	.0015875
%RSD	.1986759	.2675998	.1689815	.4318936	.9775083
#1	.3988767	.8180364	.4403502	.5318736	.1608492
#2	.3986304	.8163509	.4401828	.5362881	.1640219
#3	.3973996	.8137044	.4415481	.5352510	.1623310

Analysis Report Wed 08-14-96 10:48:42 AM page 1

Method: EPA Sample Name: 242011 Operator: LKM
Run Time: 08/14/96 10:44:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	32.29508	.0013407	.0016564	.0107339	.3614048	.0021510	.0043675
SDev	.19786	.0014169	.0009109	.0007158	.0020626	.0003525	.0006714
%RSD	.6126677	105.6775	54.99334	6.668624	.5707248	16.38689	15.37214
#1	32.39818	.0008974	.0025319	.0099926	.3626832	.0025556	.0049755
#2	32.06696	.0029262	.0017234	.0114212	.3590253	.0019872	.0036470
#3	32.42010	.0001986	.0007138	.0107881	.3625059	.0019103	.0044801

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0056220	.3341380	.0686045	.0006254	.0338540	20.93998	1.303362
SDev	.0003410	.0015077	.0003622	.0003964	.0001353	.14570	.001810
%RSD	6.065593	.4512175	.5279470	63.38108	.3995186	.6957751	.1388648
#1	.0057948	.3350346	.0689172	.0003172	.0340073	21.02722	1.305420
#2	.0058421	.3323973	.0682076	.0004864	.0338031	20.77179	1.302018
#3	.0052292	.3349820	.0686887	.0010726	.0337516	21.02093	1.302649

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.306064	.5635987	.0186319	.0054266	.0114504	.9106351	.0053181
SDev	.004627	.0051375	.0001495	.0008710	.0002124	.0033632	.0028043
%RSD	.3542998	.9115582	.8023428	16.05084	1.855019	.3693271	52.73180
#1	1.305938	.5644594	.0186631	.0063299	.0112062	.9134771	.0051956
#2	1.301501	.5580852	.0184693	.0053581	.0115528	.9069220	.0081817
#3	1.310753	.5682516	.0187633	.0045919	.0115923	.9115063	.0025770

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0077589	1.035972	-.000373	.2882686	.0132076	.0005030	.1644921
SDev	.0013060	.006332	.000101	.0759120	.0004706	.0023303	.0009633
%RSD	16.83176	.6112478	27.08708	26.33376	3.563493	463.2570	.5856057
#1	.0073899	1.041759	-.000315	.3286850	.0136791	.0030590	.1651235
#2	.0066772	1.029208	-.000490	.3354214	.0127378	-.001503	.1633834
#3	.0092097	1.036950	-.000315	.2006993	.0132059	-.000047	.1649694

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.1080644	.2333664	1.306017	.0076287	.0022054
SDev	.0006465	.0016112	.003237	.0002606	.0009245
%RSD	.5982686	.6903992	.2478174	3.415335	41.92012
#1	.1082587	.2336716	1.306622	.0073447	.0026731
#2	.1073430	.2316245	1.302521	.0078567	.0028025
#3	.1085915	.2348031	1.308909	.0076847	.0011405

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Method: EPA Sample Name: 242011L Operator: LKM
Run Time: 08/14/96 10:48:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	6.578197	.0006916	.0009500	.0009654	.0729864	.0003425	.0007929
SDev	.109622	.0024288	.0015800	.0007384	.0009445	.0001549	.0001698
%RSD	1.666452	351.1755	166.3111	76.48817	1.294072	45.21885	21.41310
#1	6.704107	.0018287	.0027356	.0017943	.0740722	.0001911	.0008701
#2	6.526524	.0023434	-.000267	.0007241	.0725320	.0005007	.0009103
#3	6.503963	-.002097	.0003815	.0003778	.0723549	.0003358	.0005982

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0013623	.0688256	.0140042	.0001847	.0070028	4.295425	.2676782
SDev	.0003142	.0004100	.0001319	.0002780	.0000734	.044376	.0026423
%RSD	23.06689	.5956289	.9421353	150.5179	1.047680	1.033110	.9871379
#1	.0010269	.0686218	.0138742	-.000133	.0069247	4.345629	.2706918
#2	.0016499	.0692975	.0141380	.0003017	.0070702	4.261437	.2657583
#3	.0014100	.0685575	.0140004	.0003851	.0070136	4.279210	.2665845

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.2648549	.1126138	.0037646	.0015744	.0026630	.1767935	-.001500
SDev	.0032364	.0009081	.0000387	.0002047	.0005187	.0078435	.002730
%RSD	1.221961	.8063531	1.027219	13.00273	19.47839	4.436559	182.0172
#1	.2683262	.1118456	.0037200	.0016013	.0031419	.1698834	.0001063
#2	.2619205	.1136160	.0037878	.0017644	.0021120	.1853190	.0000461
#3	.2643181	.1123799	.0037861	.0013576	.0027351	.1751781	-.004652

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0037539	.2141734	-.000169	.1284452	.0038175	-.001574	.0337721
SDev	.0009916	.0031164	.000325	.1207248	.0005658	.000891	.0002208
%RSD	26.41654	1.455070	192.3229	93.98937	14.82138	56.62755	.6538314
#1	.0042779	.2172017	-.000536	.0193498	.0031653	-.002487	.0339463
#2	.0043737	.2143425	-.000051	.2581469	.0041762	-.000707	.0335238
#3	.0026102	.2109759	.0000805	.1078388	.0041112	-.001527	.0338464

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0221546	.0481841	.2666003	.0026948	.0015544
SDev	.0001429	.0004860	.0029956	.0015742	.0014645
%RSD	.6449583	1.008604	1.123632	58.41793	94.21807
#1	.0222652	.0487443	.2699017	.0035890	.0031338
#2	.0222054	.0478756	.2640556	.0036182	.0012879
#3	.0219933	.0479324	.2658437	.0008771	.0002414

Method: EPA Sample Name: 242011D Operator: LKM
Run Time: 08/14/96 10:53:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	30.61976	.0003485	.0020241	.0113517	.3346399	.0018506	.0051482
SDev	.02921	.0018052	.0018816	.0019757	.0006024	.0000685	.0006856
%RSD	.0953896	518.0015	92.95827	17.40446	.1800215	3.703368	13.31733
#1	30.61950	.0023963	.0041082	.0127414	.3351010	.0019260	.0052748
#2	30.59068	-.000339	.0015139	.0122237	.3339582	.0018336	.0057617
#3	30.64909	-.001012	.0004502	.0090900	.3348603	.0017921	.0044081

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0076502	.3414386	.0661875	.0007236	.0338337	20.11012	1.379104
SDev	.0001696	.0034209	.0005499	.0003117	.0003737	.06494	.006899
%RSD	2.217124	1.001901	.8307681	43.08046	1.104456	.3228986	.5002280
#1	.0077075	.3378130	.0656542	.0005877	.0338063	20.05466	1.384794
#2	.0077837	.3446092	.0667525	.0010802	.0342203	20.18155	1.371431
#3	.0074593	.3418935	.0661557	.0005029	.0334745	20.09416	1.381087

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.370566	.5228103	.0182091	.0047708	.0120593	.8789923	-.002363
SDev	.007353	.0035636	.0001689	.0003484	.0003968	.0020248	.000401
%RSD	.5365091	.6816302	.9276874	7.302198	3.290097	.2303491	16.98710
#1	1.376059	.5208087	.0180165	.0050587	.0121071	.8802126	-.002757
#2	1.362212	.5269248	.0183322	.0048702	.0124300	.8801091	-.002377
#3	1.373426	.5206976	.0182786	.0043835	.0116408	.8766550	-.001954

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0082447	1.719418	-.000158	.3644701	.0123703	.0002749	.1561593
SDev	.0011090	.004001	.000264	.0529666	.0005214	.0005265	.0002045
%RSD	13.45141	.2327085	166.7470	14.53251	4.215261	191.5439	.1309588
#1	.0069648	1.714980	-.000446	.3277637	.0121297	.0007376	.1560604
#2	.0088483	1.720526	.0000717	.4251901	.0129686	.0003850	.1563944
#3	.0089210	1.722749	-.000100	.3404564	.0120126	-.000298	.1560230

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.1029894	.2910641	1.374170	.0053885	.0021141
SDev	.0005740	.0009513	.007198	.0008560	.0018697
%RSD	.5573562	.3268414	.5237889	15.88524	88.44143
#1	.1023617	.2900071	1.379731	.0044063	.0042169
#2	.1034877	.2913335	1.366040	.0057842	.0014867
#3	.1031187	.2918516	1.376737	.0059750	.0006388

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Method: EPA Sample Name: 242044S Operator: LKM
Run Time: 08/14/96 10:57:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	33.52735	.5049437	.5032243	.0511110	2.457418	.0513226	1.000371
SDev	.04497	.0041556	.0013493	.0015358	.001933	.0000642	.000618
%RSD	.1341430	.8229750	.2681311	3.004749	.0786527	.1251745	.0617369
#1	33.54708	.5003784	.5032011	.0518250	2.459157	.0512737	1.001077
#2	33.55908	.5085059	.5018867	.0493482	2.457761	.0513954	.9999306
#3	33.47588	.5059468	.5045850	.0521598	2.455337	.0512988	1.000106

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0569378	5.409461	.2695600	.5089027	.2912092	18.66791	1.337224
SDev	.0005528	.007127	.0001086	.0004995	.0005175	.03237	.002860
%RSD	.9709228	.1317507	.0402858	.0981439	.1777093	.1733945	.2138732
#1	.0565329	5.401297	.2694400	.5083367	.2914623	18.63582	1.340480
#2	.0575676	5.412649	.2696517	.5092813	.2906139	18.70055	1.336072
#3	.0567128	5.414439	.2695883	.5090902	.2915515	18.66738	1.335119

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.339633	5.617603	.5302219	1.025037	.5200921	6.699401	.0125285
SDev	.002271	.004410	.0002062	.002759	.0014679	.011033	.0004428
%RSD	.1695210	.0785086	.0388835	.2691502	.2822324	.1646896	3.533983
#1	1.337065	5.618185	.5300573	1.021915	.5209876	6.703608	.0126870
#2	1.341376	5.612931	.5304532	1.026051	.5183981	6.707712	.0128702
#3	1.340458	5.621694	.5301554	1.027146	.5208906	6.686883	.0120283

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0187412	1.990416	.0433253	5.260617	1.034418	.0510055	1.178919
SDev	.0025283	.000543	.0000313	.044972	.000431	.0008188	.000637
%RSD	13.49048	.0273038	.0722853	.8548720	.0416513	1.605275	.0540682
#1	.0194037	1.990955	.0432891	5.289875	1.034615	.0519048	1.179537
#2	.0208722	1.990424	.0433442	5.283142	1.033924	.0508085	1.178957
#3	.0159476	1.989869	.0433426	5.208834	1.034715	.0503032	1.178263

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.5981810	.7650948	1.339675	.0173475	.5044439
SDev	.0003116	.0008415	.000715	.0018339	.0013739
%RSD	.0520912	.1099922	.0533677	10.57166	.2723520
#1	.5982363	.7643013	1.339048	.0178437	.5029377
#2	.5984611	.7659773	1.340453	.0188823	.5047657
#3	.5978454	.7650059	1.339523	.0153166	.5056283

Analysis Report Wed 08-14-96 11:06:14 AM page 1

Method: EPA Sample Name: 242004 Operator: LKM
Run Time: 08/14/96 11:02:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	25.88862	.0046390	.0023237	.0596382	.0622729	.0013763	.0071713
SDev	.01307	.0042978	.0023097	.0007185	.0000248	.0000953	.0000496
%RSD	.0504788	92.64467	99.39352	1.204804	.0397928	6.924542	.6919301
#1	25.90347	.0092907	.0031790	.0589167	.0622736	.0014857	.0071668
#2	25.88350	.0038106	-.000292	.0596443	.0622478	.0013113	.0072230
#3	25.87889	.0008157	.0040838	.0603537	.0622974	.0013318	.0071240

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0004569	.3047787	.0595822	.0010096	.0140033	44.35016	.1687035
SDev	.0001240	.0014539	.0002055	.0005849	.0001385	.05822	.0017206
%RSD	27.14579	.4770405	.3448756	57.93268	.9887829	.1312803	1.019870
#1	.0005822	.3035994	.0595006	.0007589	.0139567	44.30846	.1706187
#2	.0003342	.3064032	.0598159	.0016781	.0141591	44.41668	.1682037
#3	.0004544	.3043337	.0594300	.0005919	.0138942	44.32535	.1672883

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.1659867	.8218369	.0177404	.0032310	.0082522	1.453039	-.006001
SDev	.0014377	.0028195	.0000825	.0013613	.0005506	.007660	.002823
%RSD	.8661612	.3430720	.4650927	42.13213	6.671993	.5271484	47.04560
#1	.1645842	.8236546	.0177239	.0047854	.0076165	1.461883	-.003141
#2	.1659186	.8232672	.0178299	.0026562	.0085615	1.448726	-.008786
#3	.1674572	.8185889	.0176673	.0022514	.0085785	1.448509	-.006076

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0059105	1.328548	-.000403	.3610254	.0104501	-.000690	.1892990
SDev	.0015926	.002811	.000190	.1048792	.0005396	.000597	.0004709
%RSD	26.94530	.2116008	47.20045	29.05036	5.163174	86.56675	.2487776
#1	.0076217	1.329565	-.000490	.3470431	.0102201	-.000980	.1898325
#2	.0044717	1.330709	-.000185	.4721944	.0110665	-.001086	.1891233
#3	.0056381	1.325370	-.000533	.2638388	.0100636	-.000003	.1889412

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.2244306	.0485670	.1677428	.0026251	.0037759
SDev	.0005017	.0003196	.0004423	.0019994	.0020726
%RSD	.2235324	.6580570	.2636659	76.16616	54.88954
#1	.2243079	.0484294	.1674469	.0047202	.0058967
#2	.2249822	.0483392	.1675304	.0007375	.0017552
#3	.2240015	.0489323	.1682513	.0024176	.0036758

Analysis Report Wed 08-14-96 11:10:38 AM page 1

Method: EPA Sample Name: 242007 Operator: LKM
Run Time: 08/14/96 11:06:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	12.65276	.0025436	.0004984	.0241582	.0491770	.0007865	.0067478
SDev	.13177	.0019473	.0004983	.0015128	.0005332	.0000855	.0003917
%RSD	1.041399	76.55661	99.98490	6.262243	1.084166	10.87203	5.804417
#1	12.80454	.0003184	.0007103	.0244856	.0497920	.0008833	.0068764
#2	12.58595	.0033761	.0008558	.0225084	.0488948	.0007211	.0070590
#3	12.56778	.0039362	-.000071	.0254805	.0488443	.0007551	.0063080

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0001395	.3476184	.0354879	.0006660	.0119104	18.22349	.0813269
SDev	.0001756	.0009987	.0003071	.0000017	.0003432	.13257	.0017725
%RSD	125.8936	.2872848	.8653718	.2494178	2.881224	.7274508	2.179535
#1	.0003272	.3487710	.0356870	.0006679	.0122900	18.37649	.0833648
#2	.0001120	.3470719	.0351343	.0006649	.0116221	18.14295	.0801437
#3	-.000021	.3470123	.0356426	.0006651	.0118192	18.15101	.0804721

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.0772902	.6231767	.0180821	.0017899	.0053191	1.347406	-.009810
SDev	.0028299	.0101287	.0001790	.0000352	.0006391	.008799	.001816
%RSD	3.661344	1.625330	.9899190	1.963624	12.01541	.6529997	18.51441
#1	.0794339	.6346922	.0182867	.0017612	.0059984	1.357564	-.011726
#2	.0740826	.6191894	.0180052	.0017794	.0047296	1.342179	-.008113
#3	.0783541	.6156484	.0179544	.0018291	.0052294	1.342475	-.009591

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025603	1.315414	-.000403	.3159522	.0082220	-.002107	.1577838
SDev	.0005191	.015306	.000044	.0619657	.0008484	.000864	.0011490
%RSD	20.27539	1.163596	10.89159	19.61237	10.31860	41.00979	.7281866
#1	.0028030	1.333036	-.000359	.2497359	.0080317	-.001656	.1591079
#2	.0019643	1.307772	-.000446	.3255805	.0074848	-.003103	.1571937
#3	.0029136	1.305433	-.000403	.3725402	.0091493	-.001561	.1570498

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0822847	.0536365	.0794529	-.000881	.0018571
SDev	.0006466	.0006120	.0023176	.000412	.0005568
%RSD	.7858365	1.140965	2.916937	46.78068	29.98150
#1	.0829933	.0542987	.0815131	-.001351	.0012644
#2	.0821342	.0530918	.0769436	-.000717	.0023692
#3	.0817266	.0535188	.0799020	-.000576	.0019376

Analysis Report Wed 08-14-96 11:15:01 AM page 1

Method: EPA Sample Name: 242008 Operator: LKM
Run Time: 08/14/96 11:10:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	14.17910	.0025702	.0007455	.0297678	.0459772	.0007279	.0080528
SDev	.01016	.0008537	.0006164	.0007103	.0000761	.0000741	.0004034
%RSD	.0716403	33.21481	82.68150	2.386233	.1655309	10.18022	5.008991
#1	14.18288	.0023543	.0014127	.0301229	.0460321	.0008104	.0081623
#2	14.16760	.0035112	.0006266	.0302305	.0460091	.0007064	.0076060
#3	14.18683	.0018453	.0001972	.0289499	.0458903	.0006669	.0083901

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0001872	.3194397	.0370430	.0008712	.0116073	23.42752	.0917532
SDev	.0001389	.0003250	.0001021	.0002532	.0002941	.01025	.0010846
%RSD	74.18581	.1017476	.2757458	29.06057	2.533675	.0437359	1.182100
#1	.0000414	.3190864	.0370308	.0009277	.0118428	23.41604	.0913745
#2	.0002024	.3197260	.0371507	.0010913	.0117014	23.43078	.0929763
#3	.0003180	.3195068	.0369475	.0005945	.0112777	23.43573	.0909086

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.0903368	.7746137	.0203995	.0013831	.0054527	1.653315	-.009130
SDev	.0019065	.0029634	.0001062	.0003500	.0007585	.004751	.002955
%RSD	2.110382	.3825610	.5206511	25.30904	13.90979	.2873836	32.36420
#1	.0923792	.7712667	.0203248	.0016352	.0061956	1.655002	-.006031
#2	.0886042	.7769034	.0205211	.0015306	.0046796	1.656992	-.011916
#3	.0900270	.7756711	.0203526	.0009834	.0054830	1.647950	-.009443

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039448	1.471388	-.000389	.3282703	.0092541	.0002376	.1861746
SDev	.0031597	.003679	.000204	.0359487	.0005956	.0031014	.0001684
%RSD	80.09776	.2500688	52.57630	10.95094	6.436488	1305.313	.0904714
#1	.0037878	1.472652	-.000316	.3296105	.0098830	.0027315	.1861045
#2	.0071801	1.467243	-.000230	.3635302	.0091806	.0012164	.1860525
#3	.0008665	1.474269	-.000619	.2916703	.0086986	-.003235	.1863667

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0796785	.0661917	.0916525	.0002661	.0020284
SDev	.0001418	.0003103	.0010794	.0018742	.0005304
%RSD	.1779355	.4687499	1.177704	704.3405	26.14934
#1	.0798327	.0664517	.0928897	.0011940	.0024023
#2	.0796489	.0662753	.0909031	.0014953	.0022616
#3	.0795539	.0658483	.0911647	-.001891	.0014214

Analysis Report Wed 08-14-96 11:19:24 AM page 1

Method: EPA Sample Name: 240998 Operator: LKM
Run Time: 08/14/96 11:15:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	49.74125	.0025536	.0013777	.0830847	.1133137	.0045724	.0019985
SDev	.08275	.0026136	.0014973	.0005032	.0000643	.0002115	.0006538
%RSD	.1663654	102.3479	108.6801	.6056440	.0567645	4.625840	32.71706
#1	49.65132	-.000053	.0030882	.0825316	.1132640	.0048138	.0012658
#2	49.75825	.0051739	.0007402	.0832072	.1133863	.0044841	.0025226
#3	49.81419	.0025402	.0003047	.0835153	.1132907	.0044194	.0022070

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0003099	.1845418	.1166357	.0021744	.0283690	264.9244	.7328111
SDev	.0003701	.0008628	.0002356	.0001407	.0002975	.5570	.0031850
%RSD	119.4296	.4675264	.2019921	6.469726	1.048690	.2102459	.4346207
#1	.0003094	.1854712	.1167103	.0020120	.0286999	265.5641	.7364232
#2	.0006803	.1843878	.1163719	.0022571	.0281235	264.6612	.7316036
#3	-.000060	.1837663	.1168250	.0022542	.0282837	264.5477	.7304064

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.7491255	.0843897	.0040780	.0030880	.0153114	.2334878	.0045188
SDev	.0043534	.0057406	.0000664	.0002970	.0004027	.0065756	.0048844
%RSD	.5811289	6.802506	1.627859	9.616556	2.629798	2.816229	108.0898
#1	.7453666	.0906035	.0041547	.0027936	.0152322	.2402592	.0090622
#2	.7481144	.0792836	.0040404	.0033874	.0157478	.2330769	-.000647
#3	.7538955	.0832821	.0040390	.0030829	.0149543	.2271274	.0051411

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046479	1.781343	-.001529	.4816217	.0120160	.0078129	.2538568
SDev	.0023407	.003505	.000311	.0835352	.0011331	.0009347	.0001244
%RSD	50.36024	.1967415	20.32410	17.34456	9.430211	11.96320	.0489968
#1	.0060399	1.779906	-.001184	.5664244	.0108812	.0074414	.2540004
#2	.0019455	1.778785	-.001616	.3994145	.0131474	.0088763	.2537882
#3	.0059582	1.785338	-.001788	.4790263	.0120192	.0071211	.2537819

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.4562444	.2116720	.7445948	.0053096	.0024458
SDev	.0007889	.0002243	.0020150	.0031593	.0006305
%RSD	.1729189	.1059421	.2706221	59.50225	25.78105
#1	.4570543	.2114855	.7433203	.0078088	.0027198
#2	.4562005	.2116098	.7435461	.0017585	.0028929
#3	.4554783	.2119208	.7469179	.0063615	.0017246

Analysis Report QC Standard Wed 08-14-96 11:23:48 AM page 1

Method: EPA Sample Name: CCV Operator: LKM
Run Time: 08/14/96 11:19:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	5.131724	1.006869	1.007503	1.019170	5.159766	.1240292	2.538258
SDev	.006785	.005534	.001195	.004426	.004462	.0002011	.004096
%RSD	.1322102	.5496375	.1186133	.4342358	.0864793	.1621304	.1613687
#1	5.133672	1.001801	1.006123	1.023743	5.157813	.1241929	2.536951
#2	5.137321	1.012774	1.008214	1.018859	5.164872	.1240901	2.542848
#3	5.124178	1.006032	1.008172	1.014908	5.156613	.1238047	2.534975

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.5124739	12.80561	.5089997	1.274996	.6291005	2.573109	1.026471
SDev	.0012189	.02738	.0010157	.003016	.0009651	.021778	.004956
%RSD	.2378382	.2137858	.1995390	.2365484	.1534056	.8463517	.4828431
#1	.5123982	12.82014	.5100389	1.276049	.6295170	2.591236	1.031895
#2	.5137288	12.82265	.5089508	1.277344	.6297874	2.579138	1.025343
#3	.5112946	12.77403	.5080094	1.271594	.6279971	2.548952	1.022177

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.023424	12.80155	1.272765	2.543788	1.277888	13.70875	1.020065
SDev	.003925	.03024	.001902	.009559	.003415	.01228	.002546
%RSD	.3835355	.2362230	.1494246	.3757827	.2672308	.0896094	.2495940
#1	1.021604	12.80631	1.273837	2.532998	1.275013	13.69458	1.019093
#2	1.027929	12.82913	1.273888	2.551197	1.281663	13.71534	1.018147
#3	1.020741	12.76921	1.270569	2.547170	1.276988	13.71633	1.022954

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.021539	2.551536	.6386738	12.53428	2.594226	1.023265	2.550455
SDev	.006800	.007756	.0015240	.03596	.003043	.005348	.003393
%RSD	.6656449	.3039919	.2386207	.2869023	.1173023	.5226403	.1330206
#1	1.025640	2.557113	.6394413	12.57433	2.594537	1.023824	2.550727
#2	1.025288	2.554816	.6396614	12.50475	2.597102	1.028312	2.553704
#3	1.013690	2.542678	.6369186	12.52377	2.591039	1.017659	2.546935

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.267806	1.305470	1.025232	1.021728	1.007971
SDev	.002276	.001917	.003009	.003713	.002529
%RSD	.1794847	.1468713	.2934727	.3633777	.2508554
#1	1.268331	1.307172	1.025796	1.024140	1.005364
#2	1.269774	1.305845	1.027919	1.023591	1.010413
#3	1.265314	1.303393	1.021981	1.017453	1.008137

Analysis Report Wed 08-14-96 11:28:11 AM page 1

Method: EPA Sample Name: CCB Operator: LKM
Run Time: 08/14/96 11:24:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.007459	.0060505	.0045230	.0005388	.0004023	.0000364	.0004312
SDev	.001993	.0063898	.0025890	.0023241	.0000535	.0001339	.0001351
%RSD	26.71097	105.6076	57.24089	431.3845	13.30417	367.4612	31.31561
#1	-.005626	.0130342	.0070073	.0011905	.0003718	.0001869	.0004380
#2	-.007172	.0046202	.0047209	.0024674	.0003710	-.000070	.0002929
#3	-.009580	.0004971	.0018407	-.002042	.0004641	-.000008	.0005628

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0001568	-.000104	.0001356	.0001311	-.000192	.0058795	.0026336
SDev	.0000915	.000272	.0000903	.0002880	.000218	.0029070	.0010551
%RSD	58.30840	259.9864	66.60194	219.5754	113.8728	49.44290	40.06346
#1	.0002044	.0001744	.0002082	.0004637	-.000086	.0091373	.0037429
#2	.0002147	-.000368	.0000344	-.000035	-.000046	.0035502	.0025153
#3	.0000514	-.000120	.0001643	-.000035	-.000443	.0049509	.0016427

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	-.001862	-.001933	.0000360	.0081924	.0001491	.0013506	.0001846
SDev	.001450	.001554	.0000290	.0048754	.0004995	.0017684	.0029196
%RSD	77.87262	80.39442	80.44482	59.51124	334.9155	130.9309	1581.938
#1	-.003531	-.000171	.0000529	.0137674	.0003409	.0019361	.0026761
#2	-.001135	-.002520	.0000026	.0060831	.0005243	-.000636	.0009057
#3	-.000919	-.003107	.0000526	.0047268	-.000418	.0027520	-.003028

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018275	-.002844	.0002085	.0787169	.0047335	.0011242	.0010513
SDev	.0010268	.001172	.0001307	.0550708	.0035385	.0008297	.0006663
%RSD	56.18501	41.21995	62.69484	69.96060	74.75405	73.80868	63.37900
#1	.0021295	-.003445	.0000780	.1170238	.0087492	.0018854	.0018154
#2	.0026694	-.003594	.0002079	.1035207	.0033789	.0012475	.0007468
#3	.0006836	-.001493	.0003394	.0156063	.0020724	.0002397	.0005916

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0000736	.0005462	.0003451	.0019618	.0057131
SDev	.0002357	.0000853	.0005991	.0015915	.0038225
%RSD	320.2455	15.61090	173.6279	81.12010	66.90807
#1	.0002104	.0005469	-.000342	.0029936	.0096964
#2	-.000199	.0006311	.0007614	.0027630	.0053682
#3	.0002089	.0004606	.0006154	.0001290	.0020747

Analysis Report Wed 08-14-96 11:32:34 AM page 1

Method: EPA Sample Name: PBS2 Operator: LKM
Run Time: 08/14/96 11:28:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	-.010864	.0005663	.0026940	-.000183	.0001231	.0000457	-.000527
SDev	.000549	.0008663	.0019445	.002122	.0000536	.0001012	.000504
%RSD	5.053492	152.9912	72.17715	1162.501	43.55346	221.6207	95.63628
#1	-.010230	-.000434	.0016128	.0008023	.0001850	.0001478	-.001107
#2	-.011196	.0010819	.0015305	.0012685	.0000923	-.000054	-.000193
#3	-.011166	.0010507	.0049388	-.002619	.0000919	.0000436	-.000281

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.000033	-.000871	-.000126	.0000247	-.000461	-.002899	.0033392
SDev	.000067	.000464	.000089	.0001283	.000032	.004239	.0014034
%RSD	203.7061	53.27798	70.32870	518.6937	7.023601	146.2255	42.02916
#1	.0000005	-.001374	-.000096	-.000115	-.000464	.0007999	.0048745
#2	.0000108	-.000461	-.000226	.0000528	-.000427	-.001972	.0030207
#3	-.000110	-.000777	-.000056	.0001367	-.000491	-.007525	.0021224

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	-.001329	-.001739	-.000016	.0018230	.0000367	.0065075	-.002498
SDev	.000533	.000673	.000028	.0011107	.0002693	.0065302	.002021
%RSD	40.08785	38.70141	179.8158	60.93030	734.1922	100.3484	80.92187
#1	-.000949	-.001350	-.000048	.0030485	.0001804	.0036685	-.000474
#2	-.001938	-.001351	.0000010	.0015375	.0002036	.0018774	-.002503
#3	-.001101	-.002516	.0000002	.0008828	-.000274	.0139766	-.004517

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007351	-.004463	.0000158	.1750352	.0007018	-.000527	.0002763
SDev	.0014342	.001703	.0002773	.1311733	.0013128	.001029	.0000926
%RSD	195.1056	38.15797	1759.130	74.94110	187.0629	195.0873	33.52420
#1	.0002544	-.003131	-.000099	.1668052	.0021904	.0006163	.0003034
#2	-.000397	-.006382	-.000186	.0481707	-.000291	-.001377	.0001731
#3	.0023479	-.003876	.0003320	.3101297	.0002055	-.000821	.0003522

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0000678	.0002990	.0009302	.0003072	.0026623
SDev	.0001146	.0000502	.0006622	.0006312	.0014522
%RSD	168.9906	16.78221	71.18906	205.4922	54.54630
#1	.0000025	.0002737	.0016689	.0006903	.0016098
#2	.0000008	.0003568	.0003899	-.000421	.0020580
#3	.0002001	.0002665	.0007318	.0006524	.0043190

Analysis Report Wed 08-14-96 11:36:56 AM page 1

Method: EPA Sample Name: LCSS2 Operator: LKM
Run Time: 08/14/96 11:32:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	35.96220	.1609863	.1594702	.4306188	.5520843	.7778953	.2744659
SDev	.06583	.0040834	.0019710	.0018248	.0007559	.0016029	.0005323
%RSD	.1830542	2.536488	1.235964	.4237591	.1369162	.2060604	.1939280
#1	35.92705	.1578611	.1597233	.4326300	.5521612	.7779412	.2738513
#2	35.92140	.1656065	.1573848	.4301573	.5512930	.7794748	.2747668
#3	36.03814	.1594914	.1613024	.4290690	.5527989	.7762699	.2747796

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.6441351	12.66759	.5468907	.9810362	.5868649	57.95365	.4358349
SDev	.0009014	.02917	.0005951	.0028673	.0015477	.10995	.0058738
%RSD	.1399431	.2302771	.1088075	.2922771	.2637203	.1897250	1.347725
#1	.6443560	12.66725	.5473729	.9795997	.5854210	57.94098	.4329812
#2	.6449056	12.69692	.5470734	.9843379	.5866748	58.06939	.4319332
#3	.6431438	12.63859	.5462257	.9791710	.5884988	57.85059	.4425905

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.4391140	10.14839	1.078756	.4470431	.8925145	11.40116	.5194733
SDev	.0046788	.00730	.001603	.0030097	.0014000	.03768	.0077623
%RSD	1.065504	.0719545	.1485848	.6732422	.1568560	.3305021	1.494266
#1	.4382881	10.14133	1.078288	.4447044	.8935733	11.39578	.5141676
#2	.4441507	10.14792	1.080541	.4504387	.8930431	11.36645	.5158700
#3	.4349032	10.15591	1.077439	.4459864	.8909273	11.44124	.5283824

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5318828	1.153423	.3561101	1.041025	.5764400	.8523588	1.929871
SDev	.0018093	.002321	.0005001	.031322	.0015534	.0032998	.001532
%RSD	.3401723	.2012157	.1404465	3.008782	.2694748	.3871317	.0793625
#1	.5298830	1.150790	.3558060	1.038429	.5753409	.8499591	1.929565
#2	.5334063	1.154308	.3558369	1.011081	.5782171	.8561218	1.931533
#3	.5323591	1.155171	.3566873	1.073564	.5757620	.8509956	1.928516

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.3958704	.8095053	.4389519	.5284267	.1606513
SDev	.0003312	.0013203	.0018452	.0031966	.0008083
%RSD	.0836545	.1630951	.4203631	.6049337	.5031678
#1	.3962403	.8094346	.4374507	.5253260	.1597794
#2	.3956014	.8108595	.4410119	.5282428	.1607988
#3	.3957696	.8082218	.4383932	.5317113	.1613758

Analysis Report Wed 08-14-96 11:41:19 AM page 1

Method: EPA Sample Name: 239987 Operator: LKM
Run Time: 08/14/96 11:37:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	55.62809	.0070597	.0068039	.0636595	1.201954	.0075458	.0720506
SDev	.02691	.0030488	.0014968	.0011726	.000964	.0000067	.0005165
%RSD	.0483692	43.18632	21.99898	1.841922	.0801824	.0884352	.7169215
#1	55.64064	.0042557	.0069322	.0633414	1.203054	.0075394	.0726226
#2	55.59719	.0066181	.0082325	.0649582	1.201259	.0075527	.0719114
#3	55.64642	.0103052	.0052471	.0626788	1.201548	.0075451	.0716180

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0424140	110.4350	.2753987	.0175366	.5003316	42.43343	1.103428
SDev	.0006437	.5329	.0010181	.0002148	.0003331	.17295	.001512
%RSD	1.517673	.4825712	.3696695	1.225095	.0665865	.4075793	.1370124
#1	.0416916	109.8491	.2742359	.0173157	.5007159	42.24287	1.104263
#2	.0426238	110.8909	.2761297	.0175495	.5001551	42.58044	1.104338
#3	.0429267	110.5649	.2758304	.0177448	.5001239	42.47698	1.101683

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.101314	32.99077	5.222907	.0067697	.1442268	2.946719	-.007390
SDev	.003508	.07958	.017806	.0012817	.0008993	.005527	.004083
%RSD	.3185641	.2412326	.3409292	18.93361	.6235371	.1875721	55.25190
#1	1.097447	32.90199	5.203128	.0078882	.1442945	2.951677	-.002987
#2	1.104292	33.05571	5.237662	.0070499	.1450903	2.940759	-.008129
#3	1.102203	33.01459	5.227931	.0053710	.1432955	2.947720	-.011052

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0088527	5.306186	.0114140	1.832963	.1221371	.0017863	.7912765
SDev	.0010923	.029063	.0000060	.078448	.0020945	.0013907	.0011764
%RSD	12.33886	.5477232	.0529237	4.279871	1.714892	77.85613	.1486648
#1	.0081734	5.272735	.0114202	1.746438	.1197494	.0024734	.7899324
#2	.0082720	5.320579	.0114082	1.899447	.1236644	.0026997	.7921183
#3	.0101127	5.325244	.0114136	1.853003	.1229974	.0001857	.7917789

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.1478615	3.058841	1.102806	.0041152	.0075312
SDev	.0006675	.011325	.002295	.0008372	.0007829
%RSD	.4514520	.3702233	.2081138	20.34366	10.39519
#1	.1470917	3.046207	1.100506	.0050708	.0067426
#2	.1482801	3.068081	1.105096	.0035112	.0083082
#3	.1482126	3.062234	1.102815	.0037635	.0075428

Analysis Report Wed 08-14-96 11:45:42 AM page 1

Method: EPA Sample Name: 239987A Operator: LKM
Run Time: 08/14/96 11:41:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	54.28854	.0048749	.0072964	.0603091	1.171475	.0073746	.0706516
SDev	.03200	.0008369	.0020479	.0028114	.000828	.0002856	.0008801
%RSD	.0589517	17.16808	28.06741	4.661632	.0707122	3.872310	1.245722
#1	54.28376	.0039132	.0088422	.0635550	1.172414	.0077039	.0697438
#2	54.25920	.0054383	.0049737	.0587311	1.171166	.0071939	.0715012
#3	54.32267	.0052732	.0080733	.0586413	1.170846	.0072261	.0707097

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0410170	108.0979	.8235548	.0171020	.4867893	41.48718	1.078859
SDev	.0002274	.1693	.0003856	.0003204	.0003620	.05346	.001312
%RSD	.5543398	.1566589	.0468253	1.873678	.0743623	.1288616	.1215680
#1	.0412795	107.9845	.8238271	.0169424	.4871915	41.48318	1.077437
#2	.0408824	108.0166	.8231135	.0168928	.4864896	41.43583	1.080021
#3	.0408891	108.2926	.8237237	.0174709	.4866868	41.54253	1.079120

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.079142	32.20181	5.113439	.0054696	.1396110	2.885387	-.006011
SDev	.005821	.04405	.004196	.0002393	.0002273	.004892	.000942
%RSD	.5394146	.1367872	.0820503	4.374629	.1627964	.1695456	15.66765
#1	1.073118	32.16045	5.110646	.0053962	.1397105	2.890876	-.007084
#2	1.084736	32.19685	5.111408	.0057370	.1393509	2.883795	-.005628
#3	1.079573	32.24812	5.118264	.0052757	.1397714	2.881489	-.005321

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0079271	5.239244	.0111127	1.950024	.1178810	-.000557	.7722931
SDev	.0009169	.021092	.0001307	.036565	.0007068	.000662	.0003433
%RSD	11.56637	.4025704	1.176365	1.875098	.5996336	118.9192	.0444480
#1	.0080664	5.215511	.0112532	1.943629	.1186412	.0002037	.7719225
#2	.0087664	5.246380	.0110900	1.989365	.1177582	-.000868	.7723564
#3	.0069486	5.255843	.0109947	1.917079	.1172435	-.001007	.7726002

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.1442009	2.994599	1.079851	.0039735	.0071492
SDev	.0004155	.004764	.004185	.0006002	.0012296
%RSD	.2881480	.1591003	.3875925	15.10603	17.19912
#1	.1446735	2.990022	1.075503	.0037105	.0078900
#2	.1438929	2.994245	1.083853	.0046604	.0057298
#3	.1440364	2.999531	1.080195	.0035497	.0078277

Analysis Report Wed 08-14-96 11:50:05 AM page 1

Method: EPA Sample Name: CRI Operator: LKM
Run Time: 08/14/96 11:45:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	.0003486	.1165620	.1161140	.0204459	.0001230	.0101706	-.000185
SDev	.0039021	.0028824	.0005909	.0008928	.0000267	.0001689	.000325
%RSD	1119.359	2.472821	.5088745	4.366699	21.68781	1.660149	175.4401
#1	.0043294	.1133733	.1167648	.0195690	.0001388	.0103651	.0001387
#2	.0001860	.1189822	.1159660	.0213538	.0000922	.0100850	-.000512
#3	-.003470	.1173305	.1156112	.0204147	.0001380	.0100617	-.000183

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0106965	.0103793	.0197521	.1033120	.0511631	.0074275	.0096230
SDev	.0000242	.0015086	.0002683	.0000241	.0003438	.0056825	.0016793
%RSD	.2262653	14.53428	1.358124	.0233629	.6718932	76.50673	17.45099
#1	.0106688	.0118993	.0199182	.1032959	.0514241	.0139891	.0114695
#2	.0107068	.0103564	.0198954	.1033004	.0512915	.0041443	.0092128
#3	.0107138	.0088824	.0194426	.1033398	.0507736	.0041490	.0081868

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.0053050	-.000378	.0312292	.0013544	.0820835	.0069364	.0045705
SDev	.0011589	.000894	.0001256	.0001473	.0008808	.0032841	.0020608
%RSD	21.84470	236.5152	.4021352	10.87357	1.073116	47.34530	45.08997
#1	.0039671	.0004056	.0313261	.0014422	.0826650	.0083550	.0067697
#2	.0059937	-.001351	.0312743	.0014366	.0825155	.0092727	.0042584
#3	.0059543	-.000188	.0310873	.0011844	.0810701	.0031815	.0026836

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0120715	.0116450	.0205038	.1033849	.0022075	.0188265	.0004794
SDev	.0025248	.0037395	.0001253	.0698067	.0005170	.0024033	.0002952
%RSD	20.91562	32.11298	.6109403	67.52120	23.41995	12.76543	61.58981
#1	.0097401	.0156057	.0206442	.1721371	.0023766	.0207482	.0008173
#2	.0147531	.0111541	.0204033	.1054482	.0026188	.0195993	.0003494
#3	.0117213	.0081751	.0204641	.0325694	.0016272	.0161318	.0002714

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0984466	.0432933	.0075329	.0102507	.1168838
SDev	.0004069	.0004885	.0002646	.0014588	.0007150
%RSD	.4133231	1.128310	3.512573	14.23094	.6117535
#1	.0987004	.0434933	.0073139	.0094297	.1162294
#2	.0979773	.0427366	.0078269	.0119350	.1176470
#3	.0986621	.0436501	.0074580	.0093875	.1167751

Analysis Report Wed 08-14-96 11:54:28 AM page 1

Method: EPA Sample Name: ICSA Operator: LKM
Run Time: 08/14/96 11:50:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	455.6035	-.000511	-.000906	-.003085	-.002561	.0013622	.0001660
SDev	.7430	.001585	.001953	.002797	.000030	.0001965	.0011081
%RSD	.1630762	310.3141	215.6312	90.66574	1.171977	14.42679	667.5697
#1	456.3239	-.001453	.0013426	-.003849	-.002547	.0015891	-.000564
#2	454.8398	.0013189	-.002184	-.005421	-.002540	.0012508	.0014410
#3	455.6468	-.001398	-.001876	.0000146	-.002595	.0012467	-.000379

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0016883	447.4209	.0011180	.0001607	-.002980	191.2052	.0049260
SDev	.0006862	.3751	.0005492	.0006210	.000225	.2285	.0053939
%RSD	40.64620	.0838472	49.11791	386.3470	7.560502	.1194803	109.4993
#1	.0015098	447.7252	.0009836	-.000539	-.003159	191.4685	.0053249
#2	.0024460	447.5357	.0017219	.0006466	-.002727	191.0880	.0101093
#3	.0011089	447.0017	.0006486	.0003745	-.003054	191.0592	-.000656

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.0003261	510.4995	-.005297	-.000077	.0026115	-.006704	-.006807
SDev	.0015223	1.0106	.000037	.001012	.0005823	.004392	.002513
%RSD	466.7727	.1979723	.6989554	1311.272	22.29634	65.50538	36.91452
#1	-.001265	511.6567	-.005329	.0007844	.0021105	-.007935	-.005150
#2	.0004754	510.0513	-.005257	.0001761	.0024736	-.001828	-.005573
#3	.0017683	509.7903	-.005306	-.001192	.0032503	-.010349	-.009698

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.003600	.0234972	-.000115	.1215575	.0023474	-.002927	-.001753
SDev	.003984	.0012802	.000501	.0309395	.0013554	.000993	.000079
%RSD	110.6448	5.448316	436.4530	25.45256	57.73996	33.92760	4.529522
#1	-.008194	.0248079	-.000303	.1567460	.0032373	-.001786	-.001831
#2	-.001516	.0234340	.0004529	.1093092	.0030174	-.003397	-.001672
#3	-.001092	.0222498	-.000494	.0986173	.0007875	-.003598	-.001756

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.000263	.0009409	.0027220	-.003927	-.000034
SDev	.000814	.0002770	.0015536	.002240	.001087
%RSD	309.1937	29.44687	57.07618	57.04535	3240.751
#1	-.000133	.0012265	.0017656	L-.006437	.0011550
#2	.0004778	.0006733	.0045147	-.002128	-.000279
#3	-.001134	.0009228	.0018858	-.003218	-.000977

Analysis Report Wed 08-14-96 11:58:51 AM page 1

Method: EPA Sample Name: ICSAB Operator: LKM
Run Time: 08/14/96 11:54:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	437.5909	.6000290	.5846018	.0944100	.5300094	.4655872	.0012884
SDev	.3069	.0031833	.0048285	.0012982	.0009027	.0006368	.0005180
%RSD	.0701358	.5305280	.8259406	1.375010	.1703234	.1367707	40.20829
#1	437.5953	.6011216	.5887314	.0954979	.5307589	.4653814	.0017383
#2	437.8956	.6025222	.5857810	.0947592	.5302622	.4650788	.0014049
#3	437.2819	.5964433	.5792930	.0929730	.5290073	.4663015	.0007220

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.9196733	433.8164	.4775309	.4605502	.5356637	183.9125	.0446143
SDev	.0013409	1.1798	.0009584	.0008778	.0009280	.2626	.0024038
%RSD	.1458052	.2719544	.2007054	.1905969	.1732412	.1427667	5.388040
#1	.9184853	433.1045	.4765018	.4598609	.5362415	183.8018	.0428144
#2	.9211273	433.1664	.4776931	.4602512	.5361563	183.7234	.0436843
#3	.9194072	435.1782	.4783979	.4615384	.5345933	184.2123	.0473442

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	.0459714	482.3518	.4788977	.0003303	.9074079	.0078129	.0387840
SDev	.0028877	.3533	.0008649	.0011069	.0014434	.0062256	.0042448
%RSD	6.281521	.0732400	.1805928	335.1297	.1590671	79.68424	10.94472
#1	.0492764	482.1297	.4783803	.0002963	.9073839	.0088880	.0340511
#2	.0439362	482.1666	.4784166	-.000759	.9059768	.0011197	.0422541
#3	.0447016	482.7592	.4798961	.0014539	.9088633	.0134309	.0400469

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0458000	.0271119	.2159218	.2767746	.0021883	.0808472	-.001094
SDev	.0060297	.0013201	.0005026	.0990691	.0026509	.0044737	.000082
%RSD	13.16530	4.869288	.2327618	35.79416	121.1376	5.533494	7.481860
#1	.0489283	.0279704	.2164696	.2347872	.0049195	.0819735	-.001122
#2	.0388491	.0277735	.2154820	.2056135	-.000374	.0846501	-.001158
#3	.0496227	.0255917	.2158138	.3899229	.0020200	.0759180	-.001002

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.4863295	.9995013	.0464562	.0442131	.5904261
SDev	.0006879	.0018173	.0016391	.0032553	.0042060
%RSD	.1414571	.1818189	3.528266	7.362795	.7123659
#1	.4858434	.9985787	.0480648	.0447263	.5936094
#2	.4860284	.9983304	.0447882	.0407317	.5920109
#3	.4871166	1.001595	.0465158	.0471813	.5856579

Analysis Report QC Standard Wed 08-14-96 12:03:15 PM page 1

Method: EPA Sample Name: CCV_ Operator: LKM
Run Time: 08/14/96 11:59:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	5.234380	1.018092	1.022390	1.031910	5.215543	.1251379	2.562979
SDev	.007769	.009628	.007111	.005140	.003604	.0000628	.004436
%RSD	.1484134	.9457030	.6955584	.4981170	.0691016	.0501731	.1730731
#1	5.243349	1.007164	1.014507	1.028050	5.212261	.1250659	2.562900
#2	5.229762	1.025327	1.024340	1.037745	5.214970	.1251810	2.558583
#3	5.230029	1.021786	1.028323	1.029937	5.219400	.1251670	2.567454

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.5162800	12.89803	.5117449	1.286280	.6365965	2.576365	1.037496
SDev	.0008826	.00594	.0000693	.001486	.0008476	.009295	.000591
%RSD	.1709563	.0460563	.0135338	.1154962	.1331481	.3607877	.0569649
#1	.5170351	12.90063	.5117099	1.284817	.6366154	2.577408	1.037441
#2	.5164952	12.89123	.5117000	1.287787	.6357396	2.585095	1.038113
#3	.5153097	12.90223	.5118246	1.286236	.6374345	2.566593	1.036935

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	1.038419	12.85054	1.283791	2.572670	1.286382	Q13.92657	1.033837
SDev	.001624	.01906	.000650	.010031	.001884	.00736	.003999
%RSD	.1564072	.1483556	.0506040	.3899005	.1464434	.0528398	.3868429
#1	1.037744	12.83729	1.284026	2.561355	1.284769	Q13.92323	1.031033
#2	1.037241	12.84194	1.283056	2.576181	1.288453	Q13.92148	1.032061
#3	1.040272	12.87239	1.284290	2.580473	1.285926	Q13.93501	1.038417

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.031800	2.581768	.6449258	12.71255	2.619083	1.036689	2.571235
SDev	.001796	.002450	.0010270	.05134	.003561	.006521	.000755
%RSD	.1740618	.0948999	.1592400	.4038716	.1359664	.6290292	.0293605
#1	1.030689	2.580644	.6439027	12.76907	2.622560	1.032991	2.570550
#2	1.033872	2.580082	.6449180	12.66879	2.615443	1.032857	2.571109
#3	1.030839	2.584579	.6459566	12.69980	2.619246	1.044218	2.572045

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.280233	1.316865	1.038877	1.033159	1.021611
SDev	.001112	.000759	.000911	.001452	.007713
%RSD	.0868402	.0576470	.0876750	.1405311	.7549651
#1	1.279394	1.316912	1.038407	1.031483	1.012741
#2	1.279812	1.316083	1.038297	1.033950	1.025349
#3	1.281494	1.317598	1.039927	1.034043	1.026742

Analysis Report Wed 08-14-96 12:07:39 PM page 1

Method: EPA Sample Name: CCB Operator: LKM
Run Time: 08/14/96 12:03:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	2068-1	2068-2	As1890	Ba4934	Be3130	B_2496
Units	ppm			ppm	ppm	ppm	ppm
Avge	.0048649	.0066335	.0039646	.0004935	.0003541	.0000553	.0007088
SDev	.0047158	.0065107	.0030956	.0012719	.0000708	.0001372	.0001311
%RSD	96.93497	98.14820	78.07980	257.7546	19.98831	247.9058	18.49474
#1	.0102226	.0138291	.0075032	-.000365	.0003708	.0002137	.0008495
#2	.0030284	.0011497	.0026328	.0019548	.0004149	-.000027	.0005901
#3	.0013436	.0049217	.0017578	-.000110	.0002764	-.000021	.0006868

Elem	Cd2265	Ca3179	Cr2677	Co2296	Cu3247	Fe2714	2203-1
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.0001425	.0137016	-.000025	-.000062	-.000016	.0031388	.0018399
SDev	.0001782	.0029122	.000210	.000175	.000227	.0016778	.0020613
%RSD	125.0136	21.25477	827.7347	282.3490	1405.119	53.45358	112.0345
#1	.0001536	.0160834	-.000267	-.000205	.0001032	.0021284	.0022658
#2	.0003149	.0145665	.0001172	.0001334	.0001261	.0022124	.0036549
#3	-.000041	.0104548	.0000737	-.000115	-.000278	.0050755	-.000401

Elem	2203-2	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	1960-1
Units		ppm	ppm	ppm	ppm	ppm	
Avge	-.000240	.0130622	.0000509	.0081119	.0002874	.0006540	-.001458
SDev	.000862	.0018318	.0000495	.0053831	.0005356	.0020076	.003613
%RSD	359.7624	14.02370	97.34123	66.36070	186.3640	306.9600	247.7266
#1	-.000410	.0150650	.0000519	.0141422	.0004093	.0027336	.0021214
#2	-.001004	.0126499	.0001000	.0064020	.0007516	-.001273	-.001393
#3	.0006950	.0114716	.0000009	.0037914	-.000299	.0005014	-.005103

Elem	1960-2	Si2881	Ag3280	Na3302	Sn1899	Tl1908	Ti3349
Units		ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0028173	-.002313	.0001330	.0453286	.0040362	.0013484	.0012358
SDev	.0014410	.001656	.0001749	.0357412	.0032512	.0009189	.0006660
%RSD	51.14712	71.59120	131.5069	78.84908	80.55108	68.15052	53.89373
#1	.0012329	-.001732	.0000334	.0288229	.0076116	.0023447	.0019668
#2	.0040495	-.001026	.0003349	.0863398	.0032403	.0011664	.0010775
#3	.0031695	-.004180	.0000306	.0208233	.0012569	.0005341	.0006632

Elem	V_2924	Zn2138	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0004080	.0005939	.0011593	.0020719	.0055033
SDev	.0004043	.0001282	.0001512	.0009192	.0040859
%RSD	99.08497	21.59085	13.04167	44.36644	74.24367
#1	.0004102	.0004552	.0011620	.0022095	.0102053
#2	.0008113	.0006184	.0013092	.0029145	.0028164
#3	.0000027	.0007081	.0010069	.0010916	.0034883

Grace K. Maddel 08/14/96

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MERCURY Chronicle: Manual/Automated

Date 7/25/96 Batch(es) 2659 SDG: RIN3 Matrix Soil

Analyst [illegible] Review Gene K. Maedl

Standards Concentration ppb	Peak Height mm (Manual)	Standard Lot No.'s
0.0		Standards: MSC -276-2
0.2		ICV, LCS: MSC -276-4
0.5		
1.0		
5.0		
10.0		

	ICM Sample ID No.	EPA/DEP/Client Sample ID	Time (Manual)	Peak Height mm (Manual)	Concentration (Manual/Automated)
1	ICV				
2	ICB				
	CCV				
	CCB				
3	CRA				
4	PBS				
5	LCSS				
6	239987				0.00193
7	239987D				0.00193
8	239987S				0.00296
9	239988				0.000217
10	239989				0.000599
11	239990				0.000003 (u)
12	239991				0.00398
	CCV				
	CCB				
13	239992				
14	239993				0.000010
15	239994 239996				0.000472
16	239997				0.000533
17	239998				0.000371
18	239999				0.000200
					0.000141

MERCURY Chronicle: Manaual/Automated

	ICM Sample ID No.	EPA/DEP/Client Sample ID	Time (Manual)	Peak Height mm (Manual)	Concentration (Manual/Automated)
19	240000				0.00126
20	240001				0.00105
21	240002				-0.000002 (u)
22	240003				0.00169
	CCV				
	CCB				
23	240004				0.000008
24	240005				0.000374
25	240006				0.00145
26	PBW				
27	LCSW				
28	239995				-0.000110 (u)
29	239995D				-0.000079 (u)
30	239995S				0.000905
	CCV				
	CCB				

Protocol: WATERS ICM LABS

Rev: 3.001 Time: 17:30:58 25 Jul 1996

Folder: 07-25-96 Seq: 6 Print: On

User: ROBERT BLANK Batch: Id: Std6Rep1 Cup: 1 09 Gas: 0.30 LPM

State: Idle Macro CAL245 51: F3 Print Xmit: Off Autosampler: On

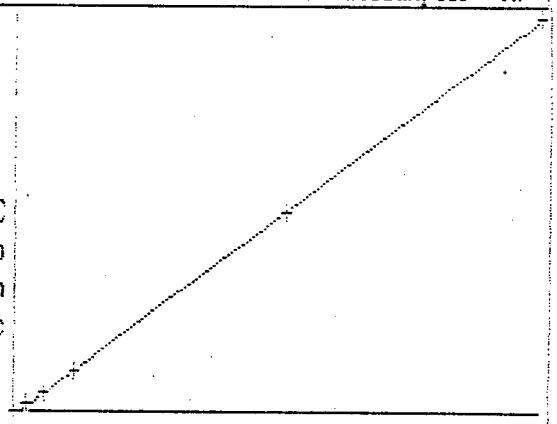
CALIBRATION: Line Calibration

Line: Hg Not Accepted

	Conc.	Calc.	Dev.	LiNear	
S1	.000	-.063	-.063	Quadratic	
S2	.200	.179	-.021	WtdLinear	
S3	.500	.500	.000		C
S4	1.00	1.05	.053	Accept	o
S5	5.00	5.07	.073		n
S6	10.0	9.96	-.043	StdAdd	c

A .0000000 r .999910

B 5.11527e-5 C -8.76448e-2



Relative Absorbance

	Mean	%RSD	
S1	487	0	487
S2	5214	0	5214
S3	11491	0	11491
S4	22302	0	22302
S5	100895	0	100895
S6	196365	0	196365

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: ICV Seq: 6 17:33:30 25 Jul 1996 HG

Hg	3.52	ppb	.000	3.52

*** Sample ID: ICB Seq: 7 17:36:06 25 Jul 1996 HG

Hg	-.102	ppb	.000	-.102

*** Check Standard: 2 Ck2 Seq: 8 17:38:44 25 Jul 1996 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	5.02	5.00	ppb	.000

*** Check Standard: 1 Ck1 Seq: 9 17:41:23 25 Jul 1996 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.048	.200	ppb	.000

*** Sample ID: CRA Seq: 10 17:44:00 25 Jul 1996 HG

Hg	.129	ppb	.000	.129

*** Sample ID: PBS Seq: 11 17:46:36 25 Jul 1996 HG

Hg	-.083	ppb	.000	-.083

*** Sample ID: LCSS Seq: 12 17:49:12 25 Jul 1996 HG

Hg	4.21	ppb	.000	4.21

*** Sample ID: 239987 Seq: 13 17:51:48 25 Jul 1996 HG

Hg	1.93	ppb	.000	1.93

*** Sample ID: 2399870 Seq: 14 17:54:24 25 Jul 1996 HG

Hg	1.93	ppb	.000	1.93

*** Sample ID: 2399875 Seq: 15 17:57:00 25 Jul 1996 HG

Hg	2.96	ppb	.000	2.96

*** Sample ID: 239988 Seq: 16 17:59:36 25 Jul 1996 HG

Hg	.217	ppb	.000	.217

*** Sample ID: 239989 Seq: 17 18:02:12 25 Jul 1996 HG

Hg	.599	ppb	.000	.599

Folder: 07-25-96 Page 1.

17:17:24 25 Jul 1996 Protocol: WATER5 IDM LABS

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 17:17:24 25 Jul 1996 HG

Hg .000 ppb 487
Ave. Int. = 487 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 17:20:06 25 Jul 1996 HG

Hg .200 ppb 5214
Ave. Int. = 5214 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 17:22:46 25 Jul 1996 HG

Hg .500 ppb 11491
Ave. Int. = 11491 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 17:25:27 25 Jul 1996 HG

Hg 1.00 ppb 22302
Ave. Int. = 22302 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 17:28:08 25 Jul 1996 HG

Hg 5.00 ppb 100895
Ave. Int. = 100895 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 17:30:50 25 Jul 1996 HG

Hg 10.0 ppb 196365
Ave. Int. = 196365 S. D. = 0

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 239990 Seq: 18 18:04:48 25 Jul 1996 HG

Hg .003 ppb .000 .003

*** Sample ID: 239991 Seq: 19 18:07:24 25 Jul 1996 HG

Hg .398 ppb .000 .398

*** Check Standard: 2 Ck2 Seq: 20 18:10:01 25 Jul 1996 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	5.01	5.00	ppb	.000

*** Check Standard: 1 Ck1 Seq: 21 18:12:40 25 Jul 1996 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.054	.200	ppb	.000

*** Sample ID: 239992 Seq: 22 18:15:16 25 Jul 1996 HG

Hg .010 ppb .000 .010

*** Sample ID: 239993 Seq: 23 18:17:51 25 Jul 1996 HG

Hg .472 ppb .000 .472

*** Sample ID: 239996 Seq: 24 18:20:26 25 Jul 1996 HG

Hg .533 ppb .000 .533

*** Sample ID: 239997 Seq: 25 18:23:01 25 Jul 1996 HG

Hg .371 ppb .000 .371

*** Sample ID: 239998 Seq: 26 18:25:35 25 Jul 1996 HG

Hg .200 ppb .000 .200

*** Sample ID: 239999 Seq: 27 18:28:09 25 Jul 1996 HG

Hg .141 ppb .000 .141

*** Sample ID: 240000 Seq: 28 18:30:43 25 Jul 1996 HG

Hg 1.26 ppb .000 1.26

*** Sample ID: 240001 Seq: 29 18:33:17 25 Jul 1996 HG

Hg 1.05 ppb .000 1.05

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 240002 Seq: 30 18:38:52 25 Jul 1996 HG

Hg -.002 ppb .000 -.002

*** Sample ID: 240003 Seq: 31 18:38:27 25 Jul 1996 HG

Hg 1.69 ppb .000 1.69

*** Check Standard: 2 Ck2 Seq: 32 18:41:05 25 Jul 1996 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	8.01	8.00	ppb	.000

*** Check Standard: 1 Ck1 Seq: 33 18:43:44 25 Jul 1996 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.044	.200	ppb	.000

*** Sample ID: 240004 Seq: 34 18:46:20 25 Jul 1996 HG

Hg .008 ppb .000 .008

*** Sample ID: 240005 Seq: 35 18:48:53 25 Jul 1996 HG

Hg .374 ppb .000 .374

*** Sample ID: 240006 Seq: 36 18:51:26 25 Jul 1996 HG

Hg 1.45 ppb .000 1.45

*** Sample ID: FSW Seq: 37 18:53:59 25 Jul 1996 HG

Hg -.114 ppb .000 -.114

*** Sample ID: LCSW Seq: 38 18:56:32 25 Jul 1996 HG

Hg 3.71 ppb .000 3.71

*** Sample ID: 239995 Seq: 39 18:59:05 25 Jul 1996 HG

Hg -.110 ppb .000 -.110

*** Sample ID: 239995D Seq: 40 19:01:38 25 Jul 1996 HG

Hg -.079 ppb .000 -.079

*** Sample ID: 239995S Seq: 41 19:04:12 25 Jul 1996 HG

Hg .908 ppb .000 .908

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2 Seq: 42 19:06:49 25 Jul 1996 HB

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.6	4.93	5.00	ppb	.000

*** Check Standard: 1 Ck1 Seq: 43 19:09:28 25 Jul 1996 HB

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.052	.200	ppb	.000

BATCH 2659

METALS SAMPLE PREPARATION LOG

ILM04.0 CLP Review: Paul Cor Lynne K. Maedel

SAMPLE ID No.	ICP		FURNACE		MERCURY		pH	COMMENTS
	Initial	Final	Initial	Final	Initial	Final		
PBS	1.00 g	200mL			0.20g	100mL		
LCSS								
239987								
239988								
239989								
239990								
239991								
239992								
239993								
239996								
239997								
239998								
239999								8-13-96
240000								REPREP
240001								
240002								PBS 1.00g → 200
240003								LCSS 1.00g → 200
240004								239987 1.00g → 200
240005								
240006								Paul Cor 8/13/96
PBW	100mL	100mL			100mL	100mL		
LCSW								
239995							<2	
239995D								
239995S								
239987D	1.00g	200mL			0.20g	100mL		
239987S								
Analyst	Lynne K. Maedel				Lynne K. Maedel			
Prep Date	07/24/96				07/24/96			Samples: Aliquoted Samples: Digested / Analyzed

Sample Spiked	Spike Added		Spike Added		Spike Added	
	Lot #	ml	Lot #	ml	Lot #	ml
239987	SA-20-1	1.00			MSC-276-2	1.0
	SA-20-3	2.00				
	SA-20-4	0.100				
	B-R-19-13	0.100				

Sample Spiked	Spike Added		Spike Added		Spike Added	
	Lot #	ml	Lot #	ml	Lot #	ml
239995	SA-20-1	0.500			MSC-276-2	1.0
	SA-20-3	1.00				
	SA-20-4	0.050				
	B-R-19-13	0.050				

Sample Spiked	Spike Added		Spike Added		Spike Added	
	Lot #	ml	Lot #	ml	Lot #	ml
LCSW LCSS (B-R-23-5)	B-R-23-10	0.100			MSC-276-4	4.0
	B-R-19-1	0.100				
	SA-20-4	0.125				
	SA-20-5	0.250				

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SAMPLE ~~DATE~~	DATE ~~SAMPLE~~	TIN	W1	W2	W3	%M
239992	7/23/96	8	1.55	11.87	10.23	15.89
239993		9	1.54	11.75	8.67	30.17
239996		10	1.54	12.03	11.14	8.48
239997		11	1.55	11.92	10.33	15.33
239998		12	1.50	11.91	11.20	6.82
239999		13	1.54	11.70	10.76	9.25
240000		14	1.55	11.75	10.27	14.51
240001		15	1.55	12.65	10.74	17.21
240002		16	1.56	12.32	7.40	45.72
240003		17	1.57	12.00	10.63	13.14
240004		18	1.60	13.00	11.00	17.54
240005		19	1.55	11.68	9.28	23.69
240006		20	1.55	11.82	7.61	40.99
BLK	7/24/96	1	1.57	—	1.57	0
5342 (240042)		2	1.59	11.67	11.53	1.39
5342-D (240042)		3	1.57	11.64	11.43	2.09
5343 (240043)		4	1.60	11.75	11.63	1.18
5344 (240044)		5	1.60	11.61	11.50	1.10

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SPIKE STANDARD PREPARATION LOG - ICP

LOT NUMBER SA-20-1
STANDARD NAME TRACE 1
DATE PREPARED 06-04-96
ANALYST INIT. PL
FINAL VOL. (ML) 100
PRESERVATIVE(S)
ML HCL
2.0 ML HNO3

STOCK ADDED	ML	CONC.	LOT #
ICM-CLP-3T1A	20.0	MULTI	B-R-23-10
ICM-CLP4	20.0	MULTI	B-R-21-6

LOT NUMBER SA-20-2
STANDARD NAME TRACE 2
DATE PREPARED 06-04-96
ANALYST INIT. PL
FINAL VOL. (ML) 100
PRESERVATIVE(S)
ML HCL
2.0 ML HNO3

STOCK ADDED	ML	CONC.	LOT #
ARSENIC	2.0	10,000	B-R-18-7
LEAD	5.0	1000	B-R-22-11
SELENIUM	2.0	10,000	B-R-18-10
THALLIUM	2.0	10,000	B-R-18-8

LOT NUMBER SA-20-3
STANDARD NAME TRACE 3
DATE PREPARED 06-04-96
ANALYST INIT. PL
FINAL VOL. (ML) 100
PRESERVATIVE(S)
ML HCL
2.0 ML HNO3

STOCK ADDED	ML	CONC.	LOT #
ICM-3T-2	10.0	MULTI	B-R-18-5

LOT NUMBER SA-20-4
STANDARD NAME SILVER @ 100
DATE PREPARED 06-04-96
ANALYST INIT. PL
FINAL VOL. (ML) 100
PRESERVATIVE(S)
ML HCL
2.0 ML HNO3

STOCK ADDED	ML	CONC.	LOT #
SILVER @ 1000	10.00	1000	BR-22-10

LOT NUMBER SA-20-5
STANDARD NAME FES
DATE PREPARED 06-04-96
ANALYST INIT. PL
FINAL VOL. (ML) 100
PRESERVATIVE(S)
ML HCL
2.0 ML HNO3

STOCK ADDED	ML	CONC.	LOT #
ANTIMONY	10.0	1000	B-R-19-13
ARSENIC	1.0	10000	B-R-18-7
LEAD	10.0	1000	B-R-22-11
SELENIUM	1.0	10000	B-R-18-10
THALLIUM	1.0	10000	B-R-18-8

LOT NUMBER SA-20-6
STANDARD NAME Furnace 4000ppb
DATE PREPARED 07/01/96
ANALYST INIT. Grace K. Mardel
FINAL VOL. (ML) 100
PRESERVATIVE(S)
ML HCL
ML HNO3

STOCK ADDED	ML	CONC.	LOT #
Arsenic 07/01/96	0.40 0.04	10000 ppm	B-R-18-7
Lead	0.40	1000 ppm	
Selenium	0.40	1000 ppm	
Thallium	0.40	1000 ppm	

Grace K. Mardel

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ICP Standard Preparation Log Units: mg/L

Date 7-25-96 Analyst Grace K. Mandel

Lot Number IS.H. - 26 -1
Standard Name Std1/Blank/ICB/CCB
Final Volume 500mL
Preservatives 25mL HCl
5.0mL HNO

S

Lot Number IS.H. - 26 -2
Standard Name Std2
Final Volume 200mL
Preservatives 10.0mL HCl
2.0mL HNO

Stock Added	mL	Conc.	Lot Number
CLPP-CAL-1	1.0	Multi	B-R- 24 - 11
ICM-CLP-4	1.0	Multi	B-R- 21 - 6

Lot Number IS.H. - 07/25/96 ~~24~~
Standard Name Std3
Final Volume 200mL
Preservatives 10.0mL HCl
2.0mL HNO

Stock Added	mL	Conc.	Lot Number
CLPP-CAL-2	0.40	Sb 1000	B-R- 24 - 2
CLPP-CAL-3	0.40	Multi	B-R- 24 - 1

Lot Number IS.H. - 26 -4
Standard Name CCV
Final Volume 400mL
Preservatives 20.0mL HCl
4.0mL HNO

Stock Added	mL	Conc.	Lot Number
CLPP-CAL-1	1.0	Multi	B-R- 24 - 11
CLPP-CAL-2	0.40	Sb 1000	B-R- 24 - 2
CLPP-CAL-3	0.40	Multi	B-R- 24 - 1
ICM-CLP-4	1.0	Multi	B-R- 21 - 6

Lot Number IS.H. - 26 - 5
Standard Name ICV
Final Volume 200mL
Preservatives 10.0mL HCl
2.0mL HNO

Stock Added	mL	Conc.	Lot Number
ICM-CLP3T-1A	0.40	Multi	B-R- 23 - 10
Silver	0.50	100	IS - 201 - 1
ICM-ICV-4	0.40	Multi	B-R- 19 - 6
FES	1.0	Multi	IS - 201 - 2

Lot Number IS.H. - 26 -6
Standard Name ICSAB
Final Volume 100mL
Preservatives 5.0mL HCl
1.0mL HNO

Stck Added	mL	Conc.	Lot Number
CLPP-ICS-A	10.0	Multi	B-R- 24 - 4
CLPP-ICS-B4	1.0	Multi	B-R- 22 - 14

ICP Standard Preparation Log

Units: mg/L

Date 08/09/96

Analyst [illegible]

Lot Number ISH - 29 -1
Standard Name Std1/Blank/ICB/CCB
Final Volume 500mL
Preservatives 25mL HCl
5.0mL HNO

Lot Number ISH - 29 -2
Standard Name Std2
Final Volume 200mL
Preservatives 10.0mL HCl
2.0mL HNO

Stock Added	mL	Conc.	Lot Number
CLPP-CAL-1	1.0	Multi	B-R-24 - 11
ICM-CLP-4	1.0	Multi	B-R-21 - 6

Lot Number ISH - ~~3~~ 08/09/96
Standard Name Std3
Final Volume 200mL
Preservatives 10.0mL HCl
2.0mL HNO

Stock Added	mL	Conc.	Lot Number
CLPP-CAL-2	0.40	Sb 1000	B-R-24 - 2
CLPP-CAL-3	0.40	Multi	B-R-24 - 1

Lot Number ISH - 29 -4
Standard Name CCV
Final Volume 400mL
Preservatives 20.0 mL HCl
4.0 mL HNO

Stock Added	mL	Conc.	Lot Number
CLPP-CAL-1	1.0	Multi	B-R-24 - 11
CLPP-CAL-2	0.40	Sb 1000	B-R-24 - 2
CLPP-CAL-3	0.40	Multi	B-R-24 - 1
ICM-CLP-4	1.0	Multi	B-R-21 - 6

Lot Number ISH - 29 -5
Standard Name ICV
Final Volume 200mL
Preservatives 10.0mL HCl
2.0mL HNO

Stock Added	mL	Conc.	Lot Number
ICM-CLP3T-1A	0.40	Multi	B-R-23 - 10
Silver	0.50	100	ISH - 201 - 1
ICM-ICV-4	0.40	Multi	B-R-19 - 6
FES	1.0	Multi	ISH - 201 - 2

Lot Number ISH - 29 - 6
Standard Name ICSAB
Final Volume 100mL
Preservatives 5.0mL HCl
1.0mL HNO

Stck Added	mL	Conc.	Lot Number
CLPP-ICS-A	10.0	Multi	B-R-24 - 4
CLPP-ICS-B4	1.0	Multi	B-R-22 - 14

ICP Standard Preparation Log Units: mg/L

Date _____ Analyst _____

Lot Number ISH - 201 -1
Standard Name Silver @ 100ppm
Final Volume 100 mL
Preservatives ___ mL HCl
2.0 mL HNO_3

Stock Added	mL	Conc.	Lot Number
Silver	10.0	1000ppm	B-R-22-10

Lot Number ISH - 201 -2
Standard Name FES
Final Volume 100 mL
Preservatives ___ mL HCl
2.0 mL HNO_3

Stock Added	mL	Conc.	Lot Number
Antimony	10.0	1000 ppm	B-R-19-6
Arsenic	1.0	10 000	B-R-18-7
Lead	10.0	1000	B-R-18-9
Selenium	1.0	10 000	B-R-18-10
Thallium	1.0	10 000	B-R-18-18

Lot Number ISH - 201 -3
Standard Name ICSAB (4.0 CLP Only)
Final Volume 500 mL
Preservatives ___ mL HCl
5.0 mL HNO_3

Stock Added	mL	Conc.	Lot Number
CLPP-ICS-A	50.0	Multi	B-R-23-9
CLPP-ICS-4B	5.0	Multi	B-R-22-14

Lot Number ISH - 201 -4
Standard Name ICSA
Final Volume 100 mL
Preservatives ___ mL HCl
1.0 mL HNO_3

Stock Added	mL	Conc.	Lot Number
CLPP-ICS-A	10.0	Multi	B-R-23-9

Lot Number ISH - 201 -5
Standard Name CRI
Final Volume ~~100~~ 200 mL
Preservatives ___ mL HCl
2.0 mL HNO_3

Stock Added	mL	Conc.	Lot Number
CRDL Stock	0.20	Multi	B-R-21-5

Lot Number ISH - 201 -6
Standard Name CRI
Final Volume 100 mL
Preservatives ___ mL HCl
2.0 mL HNO_3

Stock Added	mL	Conc.	Lot Number
CRDL Stock	0.10	Multi	B-R-21-5

ICP Standard Preparation Log Units: mg/L

Date _____ Analyst _____

Lot Number ISH - 206 -1
Standard Name CRI
Final Volume 100 mL
Preservatives 5.0 mL HCl
2.0 mL HNO

Stock Added	mL	Conc.	Lot Number
CRDL STOCK	0.100	MULTI	B-R-21-5

Paul Con

Lot Number ISH - 206 -2
Standard Name ICSA
Final Volume 100 mL
Preservatives 5.0 mL HCl
2.0 mL HNO

Stock Added	mL	Conc.	Lot Number
ICSA	10.0	MULTI	B-R-24-7

Irene K. Maddel

Lot Number ISH - 206 -3
Standard Name ICSAB
Final Volume 100 mL
Preservatives 5.0 mL HCl
2.0 mL HNO

Stock Added	mL	Conc.	Lot Number
ICSB	10.0	MULTI	B-R-24-8

Lot Number IS^H - 206 -4
Standard Name
Final Volume 100 mL
Preservatives 5.0 mL HCl
2.0 mL HNO

Stock Added	mL	Conc.	Lot Number
CRDL STOCK	0.100	MULTI	B-R-21-5

Paul C

Lot Number ISH - 206 -5
Standard Name
Final Volume 100 mL
Preservatives 5.0 mL HCl
2.0 mL HNO

Stock Added	mL	Conc.	Lot Number
ICSA	10.0	MULTI	B-R-24-7

Lot Number IS^H - 206 -6
Standard Name
Final Volume 100 mL
Preservatives 5.0 mL HCl
2.0 mL HNO

Stock Added	mL	Conc.	Lot Number
ICSAB	10.0	MULTI	B-R-24-9

ICP Standard Preparation Log Units: mg/L

Date _____ Analyst _____

Lot Number __ISH - 207 -1
Standard Name ICSAB (For CLP 4.0 Only)
Final Volume 1000 mL
Preservatives 50 mL HCl
20 mL HNO_3

08/10/96 Janek Maedel

Stock Added	mL	Conc.	Lot Number
CLPP-ICS-A	100	Multi	B-R-24-4
CLPP-ICS-B4	10	Multi	B-R-22-14

Lot Number __ISH - 207 -2
Standard Name ICSA
Final Volume 250 mL
Preservatives 12.5 mL HCl
5 mL HNO_3

08/14/96 Janek Maedel

Stock Added	mL	Conc.	Lot Number
CLPP-ICS-A	25	Multi	B-R-24-4

Lot Number __ISH - 207 -3
Standard Name CRI
Final Volume 250 mL
Preservatives 12.5 mL HCl
5 mL HNO_3

08/14/96 Janek Maedel

Stock Added	mL	Conc.	Lot Number
CRDL Stock	0.250	Multi	B-R-21-5

Lot Number __ISH - _____ -4
Standard Name _____
Final Volume _____ mL
Preservatives _____ mL HCl
_____ mL HNO

Stock Added	mL	Conc.	Lot Number

Lot Number __ISH - _____ -5
Standard Name _____
Final Volume _____ mL
Preservatives _____ mL HCl
_____ mL HNO

Stock Added	mL	Conc.	Lot Number

Lot Number __ISH - _____ -6
Standard Name _____
Final Volume _____ mL
Preservatives _____ mL HCl
_____ mL HNO

Stock Added	mL	Conc.	Lot Number

Mercury Standard Preparation Log

Date 7/25/96

Analyst [illegible]

Lot Number MS C 276 1
Std Name Hg Standards A
Final Volume 100 mL
Preservative 5.0 mL HNO_3

Stock Added	mL Added	Conc.	Lot No.
Mercury	1.0	1000 mg/L	B-R- 23-8

Lot Number MS C276 2
Std Name Hg Standards B
Final Volume 200 mL
Preservative 10.0 mL HNO_3

Stock Added	mL Added	Conc.	Lot No.
Hg Standards B	2.0	10 mg/L	MS C-276-1

Working Standards Preparation

Blank = 0.0 mL Hg Standards B + 100 mL DI Water
0.0002 mg/L = 0.2 mL Hg Standards B + 100 mL DI Water
0.0005 mg/L = 0.5 mL Hg Standards B + 100 mL DI Water
0.0010 mg/L = 1.0 mL Hg Standards B + 99 mL DI Water
~~0.0020 mg/L = 2.0 mL Hg Standards B + 98 mL DI Water~~ [illegible] 7/25/96
0.0050 mg/L = 5.0 mL Hg Standards B + 95 mL DI Water (Also CCV)
0.0100 mg/L = 10.0 mL Hg Standards B + 90 mL DI Water

Initial Calibration Verifier (ICV)

Lot Number MS C276 3
Std Name Hg ICV A
Final Volume 100 mL
Preservative 5.0 mL HNO_3

Stock Added	mL Added	Conc.	Lot No.
Mercury	1.0	1000 mg/L	B-R- 19-8

Lot Number MS C276 4
Std Name Hg ICV B
Final Volume 100 mL
Preservative 5.0 mL HNO_3

Stock Added	mL Added	Conc.	Lot No.
Hg ICV A	1.0	10 mg/L	MS C-276-3

Working ICV Standard

0.0040 mg/L = 4.0 mL Hg ICV B + 96 mL DI Water

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Mercury Standard Preparation Log

ICM STANDARD RECEIPT

ICM Lot # - B-R-17-1
Standard - chromium
Conc. - 1000 ppm lk 4/30
Manufacturer - Inorganic plasma chem
Mfr. Lot # - 04J24N17
Date Rec.- 30th De. 1994
Exp. Date - Jun 30th 1996

ICM Lot # - B-R-17-2
Standard - Sodium
Conc. - 1000 ug/ml
Manufacturer - plasmachem
Mfr. Lot # - 04J11N109
Date Rec.- 30th De. 1994
Exp. Date - Jun 30 1996

ICM Lot # - B-R-17-3
Standard - ICM CLP-4
Conc. - multi CR MO SI (SNTT)
Manufacturer -
Mfr. Lot # - 10th K-MEB 39117
Date Rec.- 10th Jan. 1995
Exp. Date - 2/1/96

ICM Lot # - B-R-17-4
Standard - CLRP CAL-1
Conc. - Multi
Manufacturer - Inorganic Venture
Mfr. Lot # - J-Sb02002 JMEB 25072
Date Rec.- 2/15/95 2/15/95 2/15
Exp. Date - 3/1/96

ICM Lot # - B-R-17-5
Standard - CLRP Cal-2
Conc. - Multi (Sb)
Manufacturer - Inorganic venture
Mfr. Lot # - J-Sb02002
Date Rec.- 2/15/95 2/15/95 2/15
Exp. Date - 3/1/96

ICM Lot # - B-R-17-6
Standard - CLRP-CAL-3
Conc. - multi
Manufacturer - J-MEB25055
Mfr. Lot # - Inorganic venture
Date Rec.- 2/15/95 2/15
Exp. Date - 3/1/96

ICM Lot # - B-R-17-7
Standard - ICM CLP-3
Conc. - Multi
Manufacturer - Inorganic Venture
Mfr. Lot # - K-MEB 40131
Date Rec.- 24th Feb 95
Exp. Date - 03/01/96

ICM Lot # - B-R-17-8
Standard - Scandium
Conc.- 100 ug/ml
Manufacturer - Plasmachem
Mfr. Lot # - N4JS2100H
Date Rec. - 24th Feb 1995
Exp. Date - 30 March 1996

ICM Lot # - B-R-17-9
Standard - Yttrium
Conc.- 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - S4J39N15
Date Rec. - 03/08/95
Exp. Date - 09/30/96

ICM Lot # - Lithium
Standard - 10,000 ug/mL
Conc.-
Manufacturer -
Mfr. Lot # -
Date Rec. -
Exp. Date -

03/28/95

ICM Lot # - B-R-17-10
Standard - Lithium
Conc.- 10,000 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - 9102T
Date Rec. - 03/28/95
Exp. Date - 04/01/96

ICM Lot # - CLRP-ICS-A
Standard - B-R-17-11
Conc.- multi
Manufacturer - Inorganic
Mfr. Lot # - K-MEB25078
Date Rec. - 4/4/95
Exp. Date - 4/1/96

ICM Lot # - B-R-17-12
Standard - CLRP-ICS-B
Conc.- multi
Manufacturer - Inorganic venture
Mfr. Lot # - J-MEB25062
Date Rec. - 4/4/95
Exp. Date - 4/1/96

ICM Lot # - B-R-17-13
Standard - Yttrium
Conc.- 10000
Manufacturer - Inorganic
Mfr. Lot # - K-Y01049
Date Rec. - 4/4/95
Exp. Date - 4/1/96

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RECEIPT

ICM STANDARD RECEIPT

~~ICM Lot # - B-R-18-1~~
~~Standard - Lithium~~
~~Conc. - 10000~~
~~Manufacturer - Inorganic~~
~~Mfr. Lot # - L1N094R~~
~~Date Rec.- 4/4/95~~
~~Exp. Date - 4/1/96~~

ICM Lot # - B-R-18-2
Standard - Sodium
Conc. - 10000
Manufacturer - Plasmachem
Mfr. Lot # - 04321N103
Date Rec.- 4/4/95
Exp. Date - 30 sep 1996

ICM Lot # - B-R-18-3
Standard - ICMCLP-3T-1
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB42051
Date Rec.- 4/23/95
Exp. Date - 04/30/96

~~ICM Lot # - B-R-18-4~~
~~Standard - Solid LCSS~~
~~Conc. - Multi~~
~~Manufacturer - Env. Resource Ass.~~
~~Mfr. Lot # - 201~~
~~Date Rec.- 5/95 4/95~~
~~Exp. Date - None~~

ICM Lot # - B-R-18-5
Standard - ICMCLP3T-2
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB42052
Date Rec.- 5/95
Exp. Date - 5/96

ICM Lot # - B-R-18-6
Standard - ICM-CLP3T-1A
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB42146
Date Rec.- 5/95
Exp. Date - 5/96

ICM Lot # - B-R-18-7
Standard - Arsenic
Conc. - 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - 04J33H10B
Date Rec.- 07/07/95
Exp. Date - 12/30/96

ICM Lot # - B-R-18-8
Standard - Thallium
Conc.- 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - L5J81H10B
Date Rec. - 07/07/95
Exp. Date - 12/30/96

ICM Lot # - B-R-18-9
Standard - Lead
Conc.- 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - L5J8201H4
Date Rec. - 07/07/95
Exp. Date - 12/30/96

ICM Lot # - B-R-18-10
Standard - Selenium
Conc.- 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - L5J34H10B
Date Rec. - 07/07/95
Exp. Date - 12/30/96

ICM Lot # - Palladium - Matrix Modifier
Standard - B-R-18-11
Conc.- 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - ~~L5J~~ L5J46H104 09/07/95
Date Rec. - 07/07/95
Exp. Date - 12/30/96

ICM Lot # - B-R-18-12
Standard - Cobalt
Conc.- 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - S4J27N18
Date Rec. - 07/07/95
Exp. Date - 09/30/96

~~ICM Lot # - B-R-18-13~~
~~Standard - Zinc~~
~~Conc.- 1000 ug/mL~~
~~Manufacturer - Plasma Chem~~
~~Mfr. Lot # - M5J30N12~~
~~Date Rec. - 07/07/95~~
~~Exp. Date - 09/30/1996~~

ICM Lot # - B-R-18-14
Standard - Potassium
Conc.- 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - A5J19N13
Date Rec. - 07/07/95
Exp. Date - 09/30/96

ICM STANDARD RECEIPT

ICM Lot # - ICM ICV-4
Standard - B-R-19-1 EK 7/10
Conc. - multi
Manufacturer - Inorganic Venture
Mfr. Lot # - K-MEB44144
Date Rec.- 7/10/95
Exp. Date - 7/10/97

ICM Lot # - B-R-19-2
Standard - CLPP-CICV-3
Conc. - Multi
Manufacturer - Environmental Inorganic Venture
Mfr. Lot # - KMEB25096 7/10/95
Date Rec.- 7/10/97
Exp. Date -

ICM Lot # - B-R-19-3
Standard - Lithium.
Conc. - 10000
Manufacturer - plasmachem
Mfr. Lot # - J5J03104
Date Rec.- 07/20/95
Exp. Date - 30-sept 1996

ICM Lot # - B-R-19-4
Standard - Boron
Conc. - 1007 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-B01105
Date Rec.- 07/13/95 07/13/95
Exp. Date - 07/31/96

ICM Lot # - B-R-19-5
Standard - Copper
Conc. - J-CU02004
Manufacturer - Inorganic Ventures
Mfr. Lot # - 1002 ug/mL
Date Rec.- 07/13/95
Exp. Date - 07/31/96

ICM Lot # - B-R-19-6
Standard - Antimony
Conc. - 1004 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-SB02026
Date Rec.- 07/13/95
Exp. Date - 07/31/96

ICM Lot # - B-R-19-7
Standard - Lithium
Conc. - 10,022 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-LI01014R
Date Rec.- 07/13/95
Exp. Date - 07/31/96

ICM Lot # - B-R-19-8
Standard - Mercury
Conc.- 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - G5J80N14
Date Rec. - 08/09/95
Exp. Date - 03/30/97

ICM Lot # - B-R-19-9
Standard - Mercury
Conc.- 1000 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - J-HG01093
Date Rec. - 08/10/95
Exp. Date - 09/96

ICM Lot # - B-R-19-10
Standard - CLPP-ICS-A
Conc.- Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB25099
Date Rec. - 7/95
Exp. Date - 6/31/96

ICM Lot # - B-R-19-11
Standard - CLPRICS-B
Conc.- multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB25100
Date Rec. - 7/95
Exp. Date - 6/31/96

ICM Lot # - B-R-19-12
Standard - CLP Inorganic Soil / LCSS
Conc.- Multi
Manufacturer - ERA
Mfr. Lot # - 223
Date Rec. - 09/20/95
Exp. Date - 09/30/96

ICM Lot # - B-R-19-13
Standard - Antimony
Conc.- 1004 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-SB02026
Date Rec. - 09/22/95
Exp. Date - 09/31/96

ICM Lot # - B-R-19-14
Standard - Cadmium
Conc.- 1002 ug/mL
Manufacturer - K-CD01090
Mfr. Lot # - Inorganic Ventures
Date Rec. - 09/22/95
Exp. Date - 09/31/96

ICM STANDARD RECEIPT

ICM Lot # - ~~B-R-20-1~~
Standard - ~~CLPP-CAL-1~~
Conc. - ~~Multi~~
Manufacturer - ~~Inorganic Ventures~~
Mfr. Lot # - ~~K-MEB26093~~
Date Rec.- ~~09/26/95~~
Exp. Date - ~~09/31/96~~

ICM Lot # - B-R-20-~~2~~ 3 2 (B-R-20-2)
Standard - CLPP-CAL-~~2~~ 3
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-HEB25079
Date Rec.- 09/25/95
Exp. Date - 09/31/95

ICM Lot # - B-R-20-~~3~~ 2 (B-R-20-3)
Standard - CLPP-CAL-~~3~~ 2
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-SB02026
Date Rec.- 09/25/95
Exp. Date - 09/31/96

ICM Lot # - ~~B-R-20-4~~
Standard - ~~Lithium~~
Conc. - ~~1000 ug/mL~~
Manufacturer - ~~Plasma Chem~~
Mfr. Lot # - ~~L5J03016~~
Date Rec.- ~~9/15/95~~
Exp. Date - ~~8/1/96~~

ICM Lot # - ~~B-R-20-5~~
Standard - ~~Lithium~~
Conc. - ~~1000 ug/mL~~
Manufacturer - ~~Plasma Chem~~
Mfr. Lot # - ~~L5J03016~~
Date Rec.- ~~9/15/95~~
Exp. Date - ~~8/1/96~~

ICM Lot # - B-R-20-6
Standard - Aluminum
Conc. - 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - G5J13104
Date Rec.- 10/2/95
Exp. Date - ~~9/30/96~~ 3/30/97

ICM Lot # - B-R-20-7
Standard - Calcium
Conc. - 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - S5J20104
Date Rec.- 10/2/95
Exp. Date - 6/30/97

ICM Lot # - B-R-20-8
Standard - Magnesium
Conc.- Plasma Chem
Manufacturer - 10,000 ug/mL
Mfr. Lot # - S5J12104
Date Rec. - 10/2/95
Exp. Date - 6/30/97

ICM Lot # - B-R-20-9
Standard - Iron
Conc.- 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - S5J26103
Date Rec. - 10/2/95
Exp. Date - 6/30/97

ICM Lot # - B-R-20-10
Standard - Manganese
Conc.- 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - S5J25N14
Date Rec. - 10/2/95
Exp. Date - 6/30/97

ICM Lot # - B-R-20-11
Standard - Tin
Conc.- 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - S5J50W14
Date Rec. - 10/2/95
Exp. Date - 6/30/97

ICM Lot # - B-R-20-12
Standard - Barium
Conc.- 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - S5J56N14
Date Rec. - 10/2/95
Exp. Date - 3/3/97

ICM Lot # - B-R-20-13
Standard - Barium
Conc.- Plasma Chem
Manufacturer - 10,000 ug/mL
Mfr. Lot # - G4J56N103
Date Rec. - 10/2/95
Exp. Date - 3/30/97

ICM Lot # - B-R-20-14
Standard - Silicon
Conc.- 1000 ug/mL
Manufacturer - Plasm chem
Mfr. Lot # - G5J74W14
Date Rec. - 10/2/95
Exp. Date - 3/30/97

ICM STANDARD RECEIPT

ICM Lot # - B-R-21-1
Standard - MOLYBDENUM
Conc. - 1000 us/mL
Manufacturer - PLASMA Chem
Mfr. Lot # - G5J42W14
Date Rec.- 10/2/95
Exp. Date - 3/30/97

ICM Lot # - B-R-21-2
Standard - BERYLLIUM
Conc. - 1000 us/mL
Manufacturer - PLASMA Chem
Mfr. Lot # - S5J04N14
Date Rec.- 10/2/95
Exp. Date - 6/30/95

ICM Lot # - B-R-21-3
Standard - TITANIUM
Conc. - 1000 us/mL
Manufacturer - PLASMA chem
Mfr. Lot # - S5J22W14
Date Rec.- 10/2/95
Exp. Date - 6/30/95

ICM Lot # - B-R-21-4
Standard - VANADIUM
Conc. - 1000 us/mL
Manufacturer - PLASMA Chem
Mfr. Lot # - S5J23N14
Date Rec.- 10/2/95
Exp. Date - 6/30/97

ICM Lot # - B-R-21-5
Standard - CRDL Stock
Conc. - Multi
Manufacturer - Plasma chem
Mfr. Lot # - L4JDL2N1-10
Date Rec.- 10/04/95
Exp. Date - 11/30/96

ICM Lot # - B-R-21-6
Standard - ICM-CLP-4
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB48027
Date Rec.- 10/4/95
Exp. Date - 9/30/96

~~ICM Lot # - B-R-21-7~~
~~Standard - ICLPP-ICS-B4~~
~~Conc. - Multi us/ns BN~~
~~Manufacturer - Inorganic Ven~~
~~Mfr. Lot # - K-MEB25107~~
~~Date Rec.- 10/5/95~~
~~Exp. Date - 9/30/96~~

~~ICM Lot # - B-R-21-8~~
~~Standard - CLPP-ICS-A~~
~~Conc.- Multi~~
~~Manufacturer - Inorganic Ventures~~
~~Mfr. Lot # - K-MEB25101~~
~~Date Rec. - 10/5/95~~
~~Exp. Date - 9/30/96~~

ICM Lot # - B-R-21-9
Standard - POTASSIUM
Conc.- 10,000 us/mL
Manufacturer - PLASM Chem
Mfr. Lot # - 05J19N104
Date Rec. - 10/6/95
Exp. Date - 6/30/97

ICM Lot # - B-R-21-10
Standard - NICKEL
Conc.- 1000 us/mL
Manufacturer - PLASMA chem
Mfr. Lot # - 05J28N14
Date Rec. - 10/16/95
Exp. Date - 6/30/95

ICM Lot # - B-R-21-~~10~~11
Standard - CHROMIUM
Conc.- PLASMA chem
Manufacturer - PLASMA Chem
Mfr. Lot # - 05J24N14
Date Rec. - 10/14/95 10/16/9 BN
Exp. Date - ~~10/1~~ 6/30/97

ICM Lot # - B-R-21-12
Standard - Zinc
Conc.- 1000 µg/ml
Manufacturer - PLASMA-CHEM
Mfr. Lot # - S5J30N13
Date Rec. - 10-25-1995
Exp. Date - 03-30-97

ICM Lot # - B-R-21-13
Standard - LITHIUM
Conc.- 1000 µg/ml
Manufacturer - PLASMA chem
Mfr. Lot # - S5J03014
Date Rec. - 10-25-1995
Exp. Date - 09-30-1997

ICM Lot # - B-R-21-14
Standard - LITHIUM
Conc.- 1000 ns/mL
Manufacturer - PLASMA Chem
Mfr. Lot # - N5J03015
Date Rec. - 11/30/95
Exp. Date -

ICM STANDARD RECEIPT

ICM Lot # - B-R-22-1
Standard - Lithium
Conc. - 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - N5J03015
Date Rec.- 11/30/95
Exp. Date - 11/30/97

ICM Lot # - B-R-22-2
Standard - Lithium
Conc. - 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - N5J03015
Date Rec.- 11/30/95
Exp. Date - 11/30/97

ICM Lot # - B-R-22-3
Standard - Lithium
Conc. - 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - N5J03015
Date Rec.- 11/30/95
Exp. Date - 11/30/97

ICM Lot # - B-R-22-4
Standard - Selenium
Conc. - 1000 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-SEB1073
Date Rec.- 12/15/95
Exp. Date - 12/15/97

ICM Lot # - B-R-22-5
Standard - Lithium
Conc. - 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - D5J03105
Date Rec.- JAN 26 1996
Exp. Date - SEPT 30 1997

ICM Lot # - B-R-22-6
Standard - Lithium
Conc. - 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - D5J03105
Date Rec.- JAN 26 1996
Exp. Date - SEPT 30 1997

ICM Lot # - B-R-22-7
Standard - Lithium
Conc. - 10,000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - D5J03105
Date Rec.- JAN 26 1996
Exp. Date - SEPT 30 1997

ICM Lot # - B-R-22-8
Standard - 10,000 ug/mL
Conc.- Lithium
Manufacturer - Plasma Chem
Mfr. Lot # - D5J03105
Date Rec. - JAN 29 1996
Exp. Date - SEPT 30 1997

ICM Lot # - B-R-22-9
Standard - Arsenic
Conc.- 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - N5J33N15
Date Rec. - JAN 26 1996
Exp. Date - JUN 30 1997

ICM Lot # - B-R-22-10
Standard - Silver
Conc.- 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - J6J97N14
Date Rec. - JAN 26 1996
Exp. Date - SEP 30 1997

ICM Lot # - B-R-22-~~10~~ 11 1/26/96 DN
Standard - Lead
Conc.- J6J82N15
Manufacturer - Plasma Chem
Mfr. Lot # - J6J82N15
Date Rec. - JAN 26 1996
Exp. Date - SEPT 30 1997

ICM Lot # - B-R-22-12
Standard - Thallium
Conc.- 1000 ug/mL
Manufacturer - Plasma Chem
Mfr. Lot # - N5J81N15
Date Rec. - JAN 26 1996
Exp. Date - JUN 30 1997

ICM Lot # - B-R-22-13
Standard - CLP-ICS-A
Conc.- Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB25117
Date Rec. - 2/9/96
Exp. Date - 2/8/97

ICM Lot # - B-R-22-14
Standard - CLP-ICS-B4
Conc.- Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB25107
Date Rec. - ~~2/9/95~~ 2/9/96 2/9/96
Exp. Date - 2/8/97

ICM STANDARD RECEIPT

ICM Lot # - B-R-23-1
Standard - CLPP-CAL-1
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - L-MEB-25093
Date Rec.- 2/9/96
Exp. Date - 2/8/97

ICM Lot # - B-R-23-2
Standard - ICM-CLP-4
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - L-MEB52027
Date Rec.- 2/9/96
Exp. Date - 2/8/97

ICM Lot # - B-R-23-3
Standard - ICM-CLP-3
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - L-MEB52028
Date Rec.- 2/9/96
Exp. Date - 2/8/97

ICM Lot # - B-R-23-4
Standard - Yttrium
Conc. - 10,000
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-YO10049
Date Rec.- 3/26/96
Exp. Date - 3/25/97

ICM Lot # - BR-23-5
Standard - Cert. Ref. Material
Conc. - Multi
Manufacturer - ERA
Mfr. Lot # - 22
Date Rec.- 03/28/96
Exp. Date - 03/28/97

ICM Lot # - B-R-23-6
Standard - ICM-2007SPK-1
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - L-MEB54069
Date Rec.- 04/22/96
Exp. Date - 04/22/97

ICM Lot # - B-R-23-7
Standard - ICM-2007SPK-2
Conc. - Multi
Manufacturer - L-MEB54070
Mfr. Lot # - Inorganic Ventures
Date Rec.- 04/22/96
Exp. Date - 04/22/97

ICM Lot # - BR-23-8
Standard - 1007 ug/ML
Conc.- 1007 ppM
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-HG001126
Date Rec. - 5/10/96
Exp. Date - 6/1/97

ICM Lot # - B-R-23-9
Standard - CLPP-ICS-A
Conc.- Multi
Manufacturer - Inorganic Ven
Mfr. Lot # - L-MEB25120
Date Rec. - 05/17/96
Exp. Date - 06/01/97

ICM Lot # - ICM-CLP3T-1A
Standard -
Conc.-
Manufacturer 05/17/96
Mfr. Lot # -
Date Rec. -
Exp. Date -

ICM Lot # - B-R-23-10
Standard - ICM-CLP3T-1A
Conc.- Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - L-MEB55062
Date Rec. - 05/17/96
Exp. Date - 06/01/97

ICM Lot # - B-R-23-11
Standard - Lithium
Conc.- 10,078
Manufacturer - Inorganic Ventures
Mfr. Lot # - L-LI02002
Date Rec. - 05/17/96
Exp. Date - ~~06/01/96~~ 06/01/97

ICM Lot # - B-R-23-12
Standard - Lithium
Conc.- 10,078
Manufacturer - Inorganic Ventures
Mfr. Lot # - L-LI02002
Date Rec. - 05/17/96
Exp. Date - 06/01/97

ICM Lot # - B-R-23-~~12~~13
Standard - CLPP-ICS-B
Conc.- Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB25100
Date Rec. - 05/17/96
Exp. Date - 06/01/97

ICM STANDARD RECEIPT

ICM Lot # - B-R-24-1
Standard - CLPP-CAL-3
Conc. - Inorganic Ventures
Manufacturer - Multi
Mfr. Lot # - L-CICP04118
Date Rec.- 05/17/96
Exp. Date - 06/01/97

ICM Lot # - B-R-24-2
Standard - CLPP-CAL-2
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - ~~K-SB02~~ K-SB02037
Date Rec.- 05/17/96
Exp. Date -

ICM Lot # - B-R-24-2
Standard - CLPP-CAL-2
Conc. - Antimony @ 1000 ppm
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-SB02037
Date Rec.- 05/17/96
Exp. Date - 06/01/97

ICM Lot # - B-R-24-3
Standard - Sodium
Conc. - 9988 ppm
Manufacturer - Inorganic Ventures
Mfr. Lot # - L-NA02070
Date Rec.- 05/17/96
Exp. Date - 06/01/97

ICM Lot # - B-R-24-4
Standard - CLPP-ICS-A
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - L-MEB25128
Date Rec.- 06/05/96
Exp. Date - 07/01/97

ICM Lot # - B-R-24-5
Standard - CLPP-ICS-A
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - L-MEB25128
Date Rec.- 06/05/96
Exp. Date - 07/01/97

ICM Lot # - B-R-24-6
Standard - CLPP-ICS-B4
Conc. - Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB25107
Date Rec.- 06/01/96
Exp. Date - 07/01/97

ICM Lot # - B-R-24-7
Standard - ICS (0194) Part A
Conc.- Multi
Manufacturer - ICF
Mfr. Lot # - ICSA0194
Date Rec. - 06/28/96
Exp. Date - Unknown

ICM Lot # - B-R-24-8
Standard - ICS (0596) Part B
Conc.- Multi
Manufacturer - ICF
Mfr. Lot # - ICSB0596
Date Rec. - 06/28/96
Exp. Date - Unknown

ICM Lot # - B-R-24-9
Standard - ~~ic~~ CLPP-ICS-B4
Conc.- ~~07/01/96~~ 07/01/96 Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - K-MEB25107
Date Rec. - 07/01/96
Exp. Date - 07/01/97

ICM Lot # - B-R-24-10
Standard - Copper
Conc.- 1006 ug/mL
Manufacturer - Inorganic Ventures
Mfr. Lot # - L-CU02031
Date Rec. - 07/02/96
Exp. Date - ~~08~~ 08/01/97

ICM Lot # - B-R-24-11
Standard - CLPP-CAL-1
Conc.- Multi
Manufacturer - Inorganic Ventures
Mfr. Lot # - L-CICP04129
Date Rec. - 07/02/96
Exp. Date - 07/01/96

ICM Lot # -
Standard -
Conc.-
Manufacturer -
Mfr. Lot # -
Date Rec. -
Exp. Date -

ICM Lot # -
Standard -
Conc.-
Manufacturer -
Mfr. Lot # -
Date Rec. -
Exp. Date -

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