Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

AT Kearney
WA
R05020

CUSTOMER: AT KEARNEY, Inc.
PROJECT: G200-R05-020 BC
RE: BASF North Works
MID 064 197 742
REPORT NUMBER: D96-10809
SAMPLES RECEIVED: 31-OCT-1996

US EPA RECORDS CENTER REGION 5
1004374

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SDG NARRATIVE

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED: 27-SEP-1996

REPORT NUMBER: D96-10809
REPORT DATE: 31-SEP-1996

SAMPLE SUBMITTED BY : AT Kearney, Inc.
ADDRESS : Third Floor, One Wall Street Court
New York, NY 10005
ATTENTION : Ms. Julie Shanahan
PROJECT : G200-R05-020 BC
DATE SAMPLED : 26-SEP-1996
SAMPLE NUMBERS : MWOOORFIMW16, TB001, MWOOORFIMW2, RFIMW15, RFIMW115F
SDG NUMBER: D96-10809
CONTRACT NUMBER: N/A

SDG NARRATIVE

This is a Level IV data package, containing CLP forms for the analysis of volatile organics, semivolatile organics, pesticides, herbicides, metals and general chemistry parameters.

The metals data will follow at a later date.

EPA Method 8240 Volatile Organics Analysis

Calibrations

For the continuing calibration, the following compounds were outside of the QC limits of ≤20%:

ITS6 10/05/96 14:41

chloromethane (36.8%)
1,2-dichloroethane (91.3%)
carbon tetrachloride (88.7%)
vinyl acetate (44.9%)
4-methyl-2-pentanone (36.2%)
1,1,2,2-tetrachloroethane (41.0%)
2-hexanone (59.2%)
dichlorodifluoromethane (59.2%)

Since all calibration check compounds were within QC limits, the calibration was accepted.

Matrix Spike Analysis

For the matrix spike/matrix spike duplicate of sample D96-10809-4, the %RPD for trichloroethene was outside of QC limits. For the blank spike/blank spike duplicate, the %RPD for toluene and chlorobenzene were outside of QC limits. Since all spike compounds were within QC limits, the results were accepted.

There were no other issues noted during the sample analysis for volatile organics.

EPA Method 8270 Semivolatile Organics Analysis

Calibrations

For the continuing calibration, the following compounds were outside of the QC limits of ≤20%:

ITS5 10/03/96 20:45

pentachlorophenol (27.6%)
pyridine (33.0%)
n-nitrosomethylamine (27.6%)
n-nitrosodiethylamine (21.4%)
ethyl methanesulfonate (23.5%)
n-nitrosopyrrolidine (23.2%)
p-phenylenediamine (35.9%)
a,a-dimethylphenylethylamine (24.5%)
hexachloropropene (91.7%)
isosafrole (21.0%)
1,2,4,5-tetrachlorobenzene (40.4%)
m-dinitrobenzene (21.3%)
pentachlorobenzene (44.2%)
1,3,5-trinitrobenzene (73.4%)
pentachloronitrobenzene (121.6%)
pronamide (22.4%)
methapyrilene (28.6%)
aromite (26.9%)
p-(dimethylamino)azobenzene (26.9%)
3,3'-dimethylbenzidine (35.5%)
kepone (77.3%)
triethyl thiophosphate (48.3%)
disolfonton (34.3%)
phorate (22.5%)
sulfotep (24.9%)

Since all calibration check compounds were within QC limits, the calibration was accepted.

Sample Dilutions

Sample D96-10809-1 was analyzed undiluted and at a 1:5 dilution to bring all target analytes into calibration. All surrogate recoveries were within QC limits for the undiluted analysis. For the 1:5 dilution, the surrogate terphenyl-d14 was outside of the QC limits of 33-141%. The results for both analyses are included.

Sample D96-10809-4 was analyzed undiluted and at a 1:10 dilution. All surrogate recoveries were within QC limits for both analyses. The results for both analyses are included.

Surrogate Recoveries

Sample D96-10809-5 recovered the surrogate terphenyl-d14 outside of the QC limits of 33-141%. Since insufficient sample volume remained to re-extract the sample, the results were accepted.

Matrix Spike Analysis

Due to insufficient sample volume no matrix spike/matrix spike duplicate analysis could be performed. Therefore, laboratory deionized water was spiked and analyzed. These samples are referred to as blank spike and blank spike duplicate.

For the blank spike and blank spike duplicate analysis, the %RPD for phenol, acenaphthene, and pyrene were outside of QC limits. Since all spike compounds were within QC limits, the results were accepted.

There were no other issues noted during the sample analysis for semivolatile organics.

EPA Method 8080 Pesticides Analysis

Calibrations

For the continuing calibration, the following compound was outside of the QC limits of 80-120%:

CH22 10/01/96 18:39 decachlorobiphenyl (122.4%)

Since all target compounds were within QC limits, the calibration was accepted.

Surrogate Recoveries

For sample D96-10809-3, the surrogate decachlorobiphenyl was outside of the advisory QC limits of 60-140%. Since laboratory policy is to accept one surrogate outside of QC limits, the results were authorized.

EPA Method 8150 Herbicides Analysis

No issues were noted during the herbicides analysis for this task.

General Chemistry Parameters

There were no issues noted during the sample analysis for cyanide and sulfide.

No further issues were encountered during the sample analysis for this task.

If there are any questions, feel free to contact Ms. Janice McKittrick, at (972) 238-5591.

"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 in diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Alan Humason
QA Coordinator

11/12/96
Date

Inchcape Testing Services
Environmental Laboratories

JOB ID : D96-10809
CUSTOMER : AT Kearney, Inc.
PROJECT : G200-R05-020 BC

SAMPLE ID : D96-10809-1 DATE SAMPLED : 26-SEP-1996
ID MARKS : MW000RFIMW16

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
8240_TIC /1			MGD	5-OCT-1996	ITS6-842
ABN_TIC /2			WSW	4-OCT-1996	AB879-90-A9
CN_TOTAL_L /1			ADG	4-OCT-1996	865038
IL_8240_L /1			MGD	5-OCT-1996	ITS6-842
IL_8270_L /3	TAP	30-SEP-1996	WSW	4-OCT-1996	AB879-90-A9
IL_8270_L /4	TAP	30-SEP-1996	WSW	4-OCT-1996	AB879-90-A9
M_AG_D_L_I /1			GGD	15-OCT-1996	101596DI
M_AG_TADLI /1	A_O	28-SEP-1996	LSS	10-OCT-1996	14739
M_AS_D_L_F /1			AH	14-OCT-1996	101096AF
M_AS_TADLF /1	A_O	29-SEP-1996	MPE	14-OCT-1996	14746F
M_BA_D_L_I /1			LSS	1-OCT-1996	100196DI
M_BA_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_BE_D_L_I /1			GGD	15-OCT-1996	101596DI
M_BE_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_CD_D_L_F /1			AH	18-OCT-1996	101096AF
M_CD_T_L_F /1	A_O	28-SEP-1996	AH	18-OCT-1996	14742F
M_CO_D_L_I /1			GGD	15-OCT-1996	101596DI
M_CO_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_CR_D_L_I /1			LSS	1-OCT-1996	100196DI
M_CR_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_CU_D_L_I /1			GGD	15-OCT-1996	101596DI
M_CU_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_HG_D_L_V /1	A_O	28-SEP-1996	MPE	29-SEP-1996	HG-2942
M_HG_T_L_V /1	A_O	29-SEP-1996	MPE	30-SEP-1996	HG-2944

SAMPLE ID : D96-10809-1 DATE SAMPLED : 26-SEP-1996
ID MARKS : MW000RFIMW16

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
M_NI_D_L_I /1			LSS	1-OCT-1996	100196DI
M_NI_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_PB_D_L_F /1			MPE	24-OCT-1996	101096AF
M_PB_TADLF /1	A_O	29-SEP-1996	AH	10-OCT-1996	14746F
M_SB_D_L_F /1			MPE	11-OCT-1996	101096AF
M_SB_TADLF /1	A_O	29-SEP-1996	AH	10-OCT-1996	14746F
M_SE_D_L_F /1			AH	31-OCT-1996	103196AF
M_SE_TADLF /1	A_O	29-SEP-1996	AH	31-OCT-1996	14746F
M_SN_D_L_I /1			GGD	22-OCT-1996	102296DI
M_SN_T_L_I /1	CEL	30-SEP-1996	GGD	8-OCT-1996	14751
M_TL_D_L_F /1			AH	24-OCT-1996	101096AF
M_TL_TADLF /1	A_O	29-SEP-1996	MPE	24-OCT-1996	14746F
M_V__D_L_I /1			GGD	15-OCT-1996	101596DI
M_V__TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_ZN_D_L_I /1			GGD	15-OCT-1996	101596DI
M_ZN_TADLI /1	A_O	28-SEP-1996	LSS	10-OCT-1996	14739
SULFIDE_L /1			DAB	1-OCT-1996	720071

SAMPLE ID : D96-10809-2 DATE SAMPLED : 26-SEP-1996
ID MARKS : TB001

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
8240_TIC /1			MGD	5-OCT-1996	ITS6-842
IL_8240_L /1			MGD	5-OCT-1996	ITS6-842

SAMPLE ID : D96-10809-3 DATE SAMPLED : 26-SEP-1996
ID MARKS : MW000RFIMW2

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
8240_TIC /1			MGD	5-OCT-1996	ITS6-842

SAMPLE ID : D96-10809-3 DATE SAMPLED : 26-SEP-1996
ID MARKS : MW000RFIMW2

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
ABN_TIC /2			WSW	4-OCT-1996	AB879-90-A9
CN_TOTAL_L /1			ADG	4-OCT-1996	865038
IL_8080_L /1	TAP	30-SEP-1996	RRA	1-OCT-1996	AB879-93
IL_8150_L /1	LLB	29-SEP-1996	MAK	8-OCT-1996	AB879-89
IL_8240_L /1			MGD	5-OCT-1996	ITS6-842
IL_8270_L /2	TAP	30-SEP-1996	WSW	4-OCT-1996	AB879-90-A9
M_AG_D_L_I /1			GGD	15-OCT-1996	101596DI
M_AG_TADLI /1	A_O	28-SEP-1996	LSS	10-OCT-1996	14739
M_AS_D_L_F /1			MPE	14-OCT-1996	101096AF
M_AS_TADLF /1	A_O	29-SEP-1996	MPE	14-OCT-1996	14746F
M_BA_D_L_I /1			LSS	1-OCT-1996	100196DI
M_BA_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_BE_D_L_I /1			GGD	15-OCT-1996	101596DI
M_BE_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_CD_D_L_F /1			AH	18-OCT-1996	101096AF
M_CD_T_L_F /1	A_O	28-SEP-1996	AH	18-OCT-1996	14742F
M_CO_D_L_I /1			LSS	1-OCT-1996	100196DI
M_CO_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_CR_D_L_I /1			LSS	1-OCT-1996	100196DI
M_CR_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_CU_D_L_I /1			GGD	15-OCT-1996	101596DI
M_CU_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_HG_D_L_V /1	A_O	28-SEP-1996	MPE	29-SEP-1996	HG-2942
M_HG_T_L_V /1	A_O	29-SEP-1996	MPE	30-SEP-1996	HG-2944
M_NI_D_L_I /1			LSS	1-OCT-1996	100196DI
M_NI_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_PB_D_L_F /1			MPE	24-OCT-1996	101096AF

SAMPLE ID : D96-10809-3 DATE SAMPLED : 26-SEP-1996
ID MARKS : MW000RFIMW2

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
M_PB_TADLF /1	A_O	29-SEP-1996	MPE	11-OCT-1996	14746F
M_SB_D_L_F /1			MPE	10-OCT-1996	101096AF
M_SB_TADLF /1	A_O	29-SEP-1996	AH	10-OCT-1996	14746F
M_SE_D_L_F /1			AH	31-OCT-1996	103196AF
M_SE_TADLF /1	A_O	29-SEP-1996	AH	31-OCT-1996	14746F
M_SN_D_L_I /1			GGD	22-OCT-1996	102296DI
M_SN_T_L_I /1	CEL	30-SEP-1996	GGD	8-OCT-1996	14751
M_TL_D_L_F /1			AH	24-OCT-1996	101096AF
M_TL_TADLF /1	A_O	29-SEP-1996	AH	24-OCT-1996	14746F
M_V__D_L_I /1			GGD	15-OCT-1996	101596DI
M_V__TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_ZN_D_L_I /1			GGD	15-OCT-1996	101596DI
M_ZN_TADLI /1	A_O	28-SEP-1996	LSS	10-OCT-1996	14739
SULFIDE_L /1			DAB	1-OCT-1996	720071

SAMPLE ID : D96-10809-4 DATE SAMPLED : 26-SEP-1996
ID MARKS : RFIMW15

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
8240_TIC /1			MGD	5-OCT-1996	ITS6-842
ABN_TIC /2			WSW	4-OCT-1996	AB879-90-A9
CN_TOTAL_L /1			ADG	2-OCT-1996	865037
IL_8240_L /1			MGD	5-OCT-1996	ITS6-842
IL_8270_L /3	TAP	30-SEP-1996	WSW	4-OCT-1996	AB879-90-A9
M_AG_D_L_I /1			GGD	15-OCT-1996	101596DI
M_AG_TADLI /1	A_O	28-SEP-1996	LSS	10-OCT-1996	14739
M_AS_D_L_F /1			MPE	14-OCT-1996	101096AF
M_AS_TADLF /1	A_O	29-SEP-1996	AH	14-OCT-1996	14746F

SAMPLE ID : D96-10809-4 DATE SAMPLED : 26-SEP-1996
ID MARKS : RFIMW15

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
M_BA_D_L_I /1			GGD	15-OCT-1996	101596DI
M_BA_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_BE_D_L_I /1			GGD	15-OCT-1996	101596DI
M_BE_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_CD_D_L_F /1			AH	18-OCT-1996	101096AF
M_CD_T_L_F /1	A_O	28-SEP-1996	AH	18-OCT-1996	14742F
M_CO_D_L_I /1			GGD	15-OCT-1996	101596DI
M_CO_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_CR_D_L_I /1			GGD	15-OCT-1996	101596DI
M_CR_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_CU_D_L_I /1			GGD	15-OCT-1996	101596DI
M_CU_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_HG_D_L_V /1	A_O	28-SEP-1996	MPE	29-SEP-1996	HG-2942
M_HG_T_L_V /1	A_O	29-SEP-1996	MPE	30-SEP-1996	HG-2944
M_NI_D_L_I /1			LSS	1-OCT-1996	100196DI
M_NI_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_PB_D_L_F /1			MPE	24-OCT-1996	101096AF
M_PB_TADLF /1	A_O	29-SEP-1996	AH	10-OCT-1996	14746F
M_SB_D_L_F /1			MPE	10-OCT-1996	101096AF
M_SB_TADLF /1	A_O	29-SEP-1996	AH	10-OCT-1996	14746F
M_SE_D_L_F /1			AH	31-OCT-1996	103196AF
M_SE_TADLF /1	A_O	29-SEP-1996	AH	1-NOV-1996	14746F
M_SN_D_L_I /1			GGD	22-OCT-1996	102296DI
M_SN_T_L_I /1	CEL	30-SEP-1996	GGD	8-OCT-1996	14751
M_TL_D_L_F /1			AH	24-OCT-1996	101096AF
M_TL_TADLF /1	A_O	29-SEP-1996	MPE	24-OCT-1996	14746F
M_V__D_L_I /1			GGD	15-OCT-1996	101596DI

SAMPLE ID : D96-10809-4 DATE SAMPLED : 26-SEP-1996
ID MARKS : RFIMW15

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
M_V__TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_ZN_D_L_I /1			GGD	15-OCT-1996	101596DI
M_ZN_TADLI /1	A_O	28-SEP-1996	LSS	10-OCT-1996	14739
SULFIDE_L /1			ADG	2-OCT-1996	720072

SAMPLE ID : D96-10809-5 DATE SAMPLED : 26-SEP-1996
ID MARKS : RFIMW115F

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
8240_TIC /1			MGD	5-OCT-1996	ITS6-842
ABN_TIC /2			WSW	4-OCT-1996	AB879-90-A9
CN_TOTAL_L /1			ADG	2-OCT-1996	865037
IL_8240_L /1			MGD	5-OCT-1996	ITS6-842
IL_8270_L /2	TAP	30-SEP-1996	WSW	4-OCT-1996	AB879-90-A9
M_AG_D_L_I /1			GGD	15-OCT-1996	101596DI
M_AG_TADLI /1	A_O	28-SEP-1996	LSS	10-OCT-1996	14739
M_AS_D_L_F /1			MPE	14-OCT-1996	101096AF
M_AS_TADLF /1	A_O	29-SEP-1996	AH	14-OCT-1996	14746F
M_BA_D_L_I /1			GGD	15-OCT-1996	101596DI
M_BA_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_BE_D_L_I /1			GGD	15-OCT-1996	101596DI
M_BE_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_CD_D_L_F /1			AH	18-OCT-1996	101096AF
M_CD_T_L_F /1	A_O	28-SEP-1996	AH	18-OCT-1996	14742F
M_CO_D_L_I /1			GGD	15-OCT-1996	101596DI
M_CO_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_CR_D_L_I /1			GGD	15-OCT-1996	101596DI
M_CR_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739

SAMPLE ID : D96-10809-5 DATE SAMPLED : 26-SEP-1996
ID MARKS : RFIMW115F

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
M_CU_D_L_I /1			GGD	15-OCT-1996	101596DI
M_CU_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_HG_D_L_V /1	A_O	28-SEP-1996	MPE	29-SEP-1996	HG-2942
M_HG_T_L_V /1	A_O	29-SEP-1996	MPE	30-SEP-1996	HG-2944
M_NI_D_L_I /1			LSS	1-OCT-1996	100196DI
M_NI_TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_PB_D_L_F /1			MPE	24-OCT-1996	101096AF
M_PB_TADLF /1	A_O	29-SEP-1996	AH	10-OCT-1996	14746F
M_SB_D_L_F /1			MPE	10-OCT-1996	101096AF
M_SB_TADLF /1	A_O	29-SEP-1996	AH	10-OCT-1996	14746F
M_SE_D_L_F /1			AH	31-OCT-1996	103196AF
M_SE_TADLF /1	A_O	29-SEP-1996	AH	31-OCT-1996	14746F
M_SN_D_L_I /1			GGD	22-OCT-1996	102296DI
M_SN_T_L_I /1	CEL	30-SEP-1996	GGD	8-OCT-1996	14751
M_TL_D_L_F /1			AH	24-OCT-1996	101096AF
M_TL_TADLF /1	A_O	29-SEP-1996	MPE	24-OCT-1996	14746F
M_V__D_L_I /1			GGD	15-OCT-1996	101596DI
M_V__TADLI /1	A_O	28-SEP-1996	GGD	8-OCT-1996	14739
M_ZN_D_L_I /1			GGD	15-OCT-1996	101596DI
M_ZN_TADLI /1	A_O	28-SEP-1996	LSS	10-OCT-1996	14739
SULFIDE_L /1			ADG	2-OCT-1996	720072

SAMPLE ID : D96-10809-6 DATE SAMPLED : 26-SEP-1996
ID MARKS : Method Blank

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
8240_TIC /1			MGD	5-OCT-1996	ITS6-842
ABN_TIC /2			WSW	3-OCT-1996	AB879-90-A9

SAMPLE ID : D96-10809-6 DATE SAMPLED : 26-SEP-1996
ID MARKS : Method Blank

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
IL_8080_L /1	TAP	30-SEP-1996	RRA	1-OCT-1996	AB879-93
IL_8150_L /1	LLB	29-SEP-1996	MAK	8-OCT-1996	AB879-89
IL_8240_L /1			MGD	5-OCT-1996	ITS6-842
IL_8270_L /2	TAP	30-SEP-1996	WSW	3-OCT-1996	AB879-90-A9

JOB ID : D96-10809
CUSTOMER : AT Kearney, Inc.
PROJECT : G200-R05-020 BC

ANALYSIS	DESCRIPTION
8240_TIC	Tentatively Identified Compounds - VOA
ABN_TIC	Tentatively Identified Compounds - ABN
CN_TOTAL_L	Cyanide, Total, Liquid Matrix
IL_8240_L	Volatile Organics, Appendix IX, Liquid
IL_8270_L	8170, Illinois, Liquid
M_AG_D_L_I	Silver, Dissolved in Water, ICP
M_AG_TADLI	Silver, Total, Hot Plate, Liquid, by ICP
M_AS_D_L_F	Arsenic, Dissolved, by GFAA
M_AS_TADLF	Arsenic, Hot Plate, Liquid, by Furnace
M_BA_D_L_I	Barium, Dissolved, by ICP
M_BA_TADLI	Barium, Total, Hot Plate, Liquid, by ICP
M_BE_D_L_I	Beryllium, Dissolved, by ICP
M_BE_TADLI	Beryllium, Total, Hot Plate, Liquid by ICP
M_CD_D_L_F	Cadmium, Dissolved, by GFAA
M_CD_T_L_F	Cadmium, Total, Liquid, by GFAA
M_CO_D_L_I	Cobalt, Dissolved, by ICP
M_CO_TADLI	Cobalt, Total, Hot Plate, Liquid, by ICP
M_CR_D_L_I	Chromium, Dissolved, by ICP
M_CR_TADLI	Chromium, Total, Hot PLate, Liquid, by ICP
M_CU_D_L_I	Copper, Dissolved, by ICP
M_CU_TADLI	Copper, Total, Hot Plate, Liquid, by ICP
M_HG_D_L_V	Mercury, Dissolved, by GVAA
M_HG_T_L_V	Mercury, Total, Liquid, by GVAA
M_NI_D_L_I	Nickel, Dissolved, by ICP
M_NI_TADLI	Nickel, Total, Hot Plate, Liquid, by ICP
M_PB_D_L_F	Lead, Dissolved, by GFAA

JOB ID : D96-10809
CUSTOMER : AT Kearney, Inc.
PROJECT : G200-R05-020 BC

ANALYSIS	DESCRIPTION
M_PB_TADLF	Lead, Total, Hot Plate, Liquid by Furnace
M_SB_D_L_F	Antimony, Dissolved, by GFAA
M_SB_TADLF	Antimony, Total, Hot Plate, Liquid, Furnace
M_SE_D_L_F	Selenium, Dissolved, by GFAA
M_SE_TADLF	Selenium, Total, Hot Plate, Liquid, Furnace
M_SN_D_L_I	Tin, Dissolved, by ICP
M_SN_T_L_I	Tin, Total, Liquid, by ICP
M_TL_D_L_F	Thallium, Dissolved, by GFAA
M_TL_TADLF	Thallium, Total, Hot Plate, Liquid, Furnace
M_V__D_L_I	Vanadium, Dissolved, by ICP
M_V__TADLI	Vanadium, Total, Hot Plate, Liquid, by ICP
M_ZN_D_L_I	Zinc, Dissolved, by ICP
M_ZN_TADLI	Zinc, Total, Hot Plate, Liquid, by ICP
SULFIDE_L	Sulfide, Total Basis Liquid Matrix
IL_8080_L	Illinois Chlorinated Pesticides , Liquid
IL_8150_L	Chlor. Herbicies, Illinois Liquid

VOLATILES DATA

QUALITY CONTROL SUMMARY

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

	CLIENT SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	OTHER	TOT OUT
01	METHOD BLK	91	106	101		0
02	METHOD BLKBS	100	104	103		0
03	METHOD BLKBS	97	104	109		0
04	RFIMW15 MS	96	109	109		0
05	RFIMW15 MSD	95	108	87		0
06	MW000RFIMW16	92	102	101		0
07	TB001	91	107	104		0
08	MW000RFIMW2	98	104	103		0
09	RFIMW15	94	103	103		0
10	RFIMW115F	94	104	101		0
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		QC LIMITS
SMC1	= 1,2-Dichloroethane-d4	(76-115)
SMC2	= Toluene-d8 (SS)	(88-110)
SMC3	= Bromofluorobenzene (SS	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix Spike - Sample No.: RFIMW15

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.0	0.000	30.9	62	55-130
Trichloroethene	50.0	0.000	35.5	71	60-140
Benzene	50.0	0.000	35.8	72	65-135
Toluene	50.0	0.000	39.8	80	60-145
Chlorobenzene	50.0	0.000	43.4	87	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0	35.4	71	14	20	55-130
Trichloroethene	50.0	44.1	88	21*	20	60-140
Benzene	50.0	43.8	88	20	25	65-135
Toluene	50.0	42.9	86	7	20	60-145
Chlorobenzene	50.0	42.4	85	2	20	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix Spike - Sample No.: METHOD BLK

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.0	0.000	38.0	76	55-130
Trichloroethene	50.0	0.000	46.3	93	60-140
Benzene	50.0	0.000	46.0	92	65-135
Toluene	50.0	0.000	43.6	87	60-145
Chlorobenzene	50.0	0.000	44.9	90	75-130

COMPOUND	SPIKE ADDED (ug/L)	BSD CONCENTRATION (ug/L)	BSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0	45.2	90	17	20	55-130
Trichloroethene	50.0	55.6	111	18	20	60-140
Benzene	50.0	56.1	112	20	25	65-135
Toluene	50.0	55.2	110	23*	20	60-145
Chlorobenzene	50.0	55.6	111	21*	20	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

METHOD BLK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Lab File ID: BB7360301003 Lab Sample ID: D96-10809-6

Date Analyzed: 10/05/96 Time Analyzed: 1501

GC Column: 2.00 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: ITS6

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	METHOD BLKBS	8240 LCS	BB7360401004	1520
02	METHOD BLKBS	8240 LCS DUP	BB7360501005	1539
03	RFIMW15 MS	D96-10809-4MS	BB7360601006	1558
04	RFIMW15 MSD	D96-10809-4MSD	BB7360701007	1617
05	MW000RFIMW16	D96-10809-1	BB7360801008	1636
06	TB001	D96-10809-2	BB7360901009	1655
07	MW000RFIMW2	D96-10809-3	BB7361001010	1714
08	RFIMW15	D96-10809-4	BB7361101011	1733
09	RFIMW115F	D96-10809-5	BB7361201012	1752
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10438

Lab File ID: BB7250501005 BFB Injection Date: 09/19/96

Instrument ID: ITS6 BFB Injection Time: 1240

GC Column: ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 60.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	78.0
175	5.0 - 9.0% of mass 174	6.4 (8.3)1
176	95.0 - 101.0% of mass 174	74.1 (95.1)1
177	5.0 - 9.0% of mass 176	5.1 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	8240 INITIAL	20 PPB CAL STD	BB7252001020	09/19/96	1905
02	8240 INITIAL	50 PPB CAL STD	BB7252101021	09/19/96	1917
03	8240 INITIAL	100 PPB CAL ST	BB7252201022	09/19/96	1936
04	8240 INITIAL	200 PPB CAL ST	BB7252301023	09/19/96	1956
05	8240 INITIAL	300 PPB CAL ST	BB7252401024	09/19/96	2015
06	8240 INITIAL	10 PPB CAL STD	BB7252501025	09/19/96	2035
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Lab File ID: BB7360101001 BFB Injection Date: 10/05/96

Instrument ID: ITS6 BFB Injection Time: 1431

GC Column: ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.4
75	30.0 - 60.0% of mass 95	42.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	73.4
175	5.0 - 9.0% of mass 174	4.4 (5.9)1
176	95.0 - 101.0% of mass 174	73.0 (99.5)1
177	5.0 - 9.0% of mass 176	4.4 (6.0)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	METHOD BLK	D96-10809-6	BB7360301003	10/05/96	1501
02	METHOD BLKBS	8240 LCS	BB7360401004	10/05/96	1520
03	METHOD BLKBS	8240 LCS DUP	BB7360501005	10/05/96	1539
04	RFIMW15 MS	D96-10809-4MS	BB7360601006	10/05/96	1558
05	RFIMW15 MSD	D96-10809-4MSD	BB7360701007	10/05/96	1617
06	MW000RFIMW16	D96-10809-1	BB7360801008	10/05/96	1636
07	TB001	D96-10809-2	BB7360901009	10/05/96	1655
08	MW000RFIMW2	D96-10809-3	BB7361001010	10/05/96	1714
09	RFIMW15	D96-10809-4	BB7361101011	10/05/96	1733
10	RFIMW115F	D96-10809-5	BB7361201012	10/05/96	1752
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FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Lab File ID (Standard): BB7360201002 Date Analyzed: 10/05/96

Instrument ID: ITS6 Time Analyzed: 1441

GC Column: 2.00 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	251462	4.41	959044	5.20	612295	7.62
	UPPER LIMIT	502924	4.91	1918088	5.70	1224590	8.12
	LOWER LIMIT	125731	3.91	479522	4.70	306148	7.12
	CLIENT SAMPLE NO.						
01	METHOD BLK	268935	4.42	1004482	5.20	644479	7.62
02	METHOD BLKBS	266903	4.41	1027704	5.20	675925	7.62
03	METHOD BLKBS	274466	4.40	1024558	5.20	670709	7.62
04	RFIMW15 MS	273749	4.41	1077342	5.20	603621	7.62
05	RFIMW15 MSD	285026	4.41	1052485	5.20	656778	7.62
06	MW000RFIMW16	270706	4.42	996712	5.20	650361	7.62
07	TB001	267967	4.42	1011530	5.20	627388	7.63
08	MW000RFIMW2	269271	4.41	1021282	5.20	650630	7.62
09	RFIMW15	273535	4.41	1024251	5.20	673646	7.63
10	RFIMW115F	270205	4.41	984935	5.20	645153	7.63
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

FORM 1 VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

AT Kearney, Inc.

| MW000RFIMW16 |

Lab Name: ITS Dallas Contract:

Lab Code: 11169 Case No.: SAS No.: SDG No.: D96-10809

Matrix (soil/water): Water Lab Sample ID: D96-10809-1

Sample wt/vol: 5.0 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received : 27-SEP-1996

% Moisture: 0.0 decanted(Y/N) N Date Analyzed: 5-OCT-1996

GC Column: ID: 0.53(mm) Dilution Factor: 1

Soil Extract Volume:_____(mL) Soil Aliquot Volume:_____(çL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	328	
75-05-8	Acetonitrile	100	U
107-02-8	Acrolein	10.0	U
107-13-1	Acrylonitrile	10.0	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
78-93-3	2-Butanone	10.0	U
75-15-0	Carbon disulfide	2.9	
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
	2-Chloro-1,3-butadiene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
	3-Chloropropene	10.0	U
96-12-8	1,2-Dibromo-3-chloropropane	20.0	U
106-93-4	1,2-Dibromoethane	1.0	U
74-95-3	Dibromomethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
540-59-0	trans-1,2-Dichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
123-91-1	1,4-Dioxane	500	U
	Ethyl benzene	1.0	U

FORM 1 VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

AT Kearney, Inc.

| MW000RFIMW16 |

I[illegible] Name: ITS Dallas Contract:

Lab Code: 11169 Case No.: SAS No.: SDG No.: D96-10809

Matrix (soil/water): Water Lab Sample ID: D96-10809-1

Sample wt/vol: 5.0 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received : 27-SEP-1996

% Moisture: 0.0 decanted(Y/N) N Date Analyzed: 5-OCT-1996

GC Column: ID: 0.53(mm) Dilution Factor: 1

Soil Extract Volume:_____(mL) Soil Aliquot Volume:_____(çL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
97-63-2	Ethyl methacrylate	1.0	U
591-78-6	2-Hexanone	10.0	U
74-88-4	Iodomethane	10.0	U
78-83-1	Isobutyl alcohol	500	U
126-98-7	Methacrylonitrile	20.0	U
80-62-6	Methyl methacrylate	1.0	U
108-10-1	4-Methyl-2-pentanone	10.0	U
75-09-2	Methylene chloride	1.0	U
107-12-0	Propionitrile	1.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	10.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW000RFIMW16

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7360801008

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/10-05-96A.b/BB7360801008.d
Lab Smp Id: D96-10809-1 Client Smp ID: AT_KEARNEY 5ML <2
Inj Date : 05-OCT-1996 16:36 Autotune Date: 06-Aug-96 17:28
Operator : MICHELLE Inst ID: its6.i
Smp Info : IL_8240_L;;ITS6-842;1;<2
Misc Info : AT_KEARNEY 5ML <2
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle Quant Type: ISTD
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 8
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: 8240.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
8 Acetone	43.00	2.818	2.672	(0.638)	350126	328	328(QM)
9 Carbon disulfide	76.00	2.949	2.779	(0.668)	44143	2.88	2.88(a)
* 17 Bromochloromethane	128.00	4.417	4.248	(1.000)	270706	50.0	
$ 21 1,2-Dichloroethane-d4 (SS)	65.00	4.866	4.705	(1.102)	381540	46.0	46.0
* 24 1,4-Difluorobenzene	114.00	5.201	5.049	(1.000)	996712	50.0	
$ 31 Toluene-d8 (SS)	98.00	6.400	6.249	(0.840)	834780	51.2	51.2
* 38 Chlorobenzene-d5	117.00	7.623	7.483	(1.000)	650361	50.0	
$ 45 Bromofluorobenzene (SS)	95.00	8.667	8.529	(1.137)	425642	50.6	50.6

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem1/its6.i/10-05-96A.b/BB7360801008.d
Lab Smp Id: D96-10809-1 Client Smp ID: AT_KEARNEY 5ML <2
Inj Date : 05-OCT-1996 16:36 Autotune Date: 06-Aug-96 17:28:4
Operator : MICHELLE Inst ID: its6.i
Smp Info : IL_8240_L;;ITS6-842;1;<2
Misc Info : AT_KEARNEY 5ML <2
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 8
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: 8240.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7360801008.d
Lab Smp Id: D96-10809-1
Analysis Type: VOA
Quant Type: ISTD
Operator: MICHELLE
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: AT_KEARNEY 5ML <2

Calibration Date: 10/05/96
Calibration Time: 1441
Client Smp ID: AT_KEARNEY 5ML
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	251462	125731	502924	270706	7.65
24 1,4-Difluorobenzene	959044	479522	1918088	996712	3.93
38 Chlorobenzene-d5	612295	306148	1224590	650361	6.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.41	3.91	4.91	4.42	0.14
24 1,4-Difluorobenzene	5.20	4.70	5.70	5.20	-0.07
38 Chlorobenzene-d5	7.62	7.12	8.12	7.62	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-1
Level: LOW
Data Type: MS DATA
SpikeList File: liquidqc.spk
Client SDG: 10-05-96A
Fraction: VOA
Client Smp ID: AT_KEARNEY 5ML <2
Operator: MICHELLE
SampleType: SAMPLE
Quant Type: ISTD
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: AT_KEARNEY 5ML <2

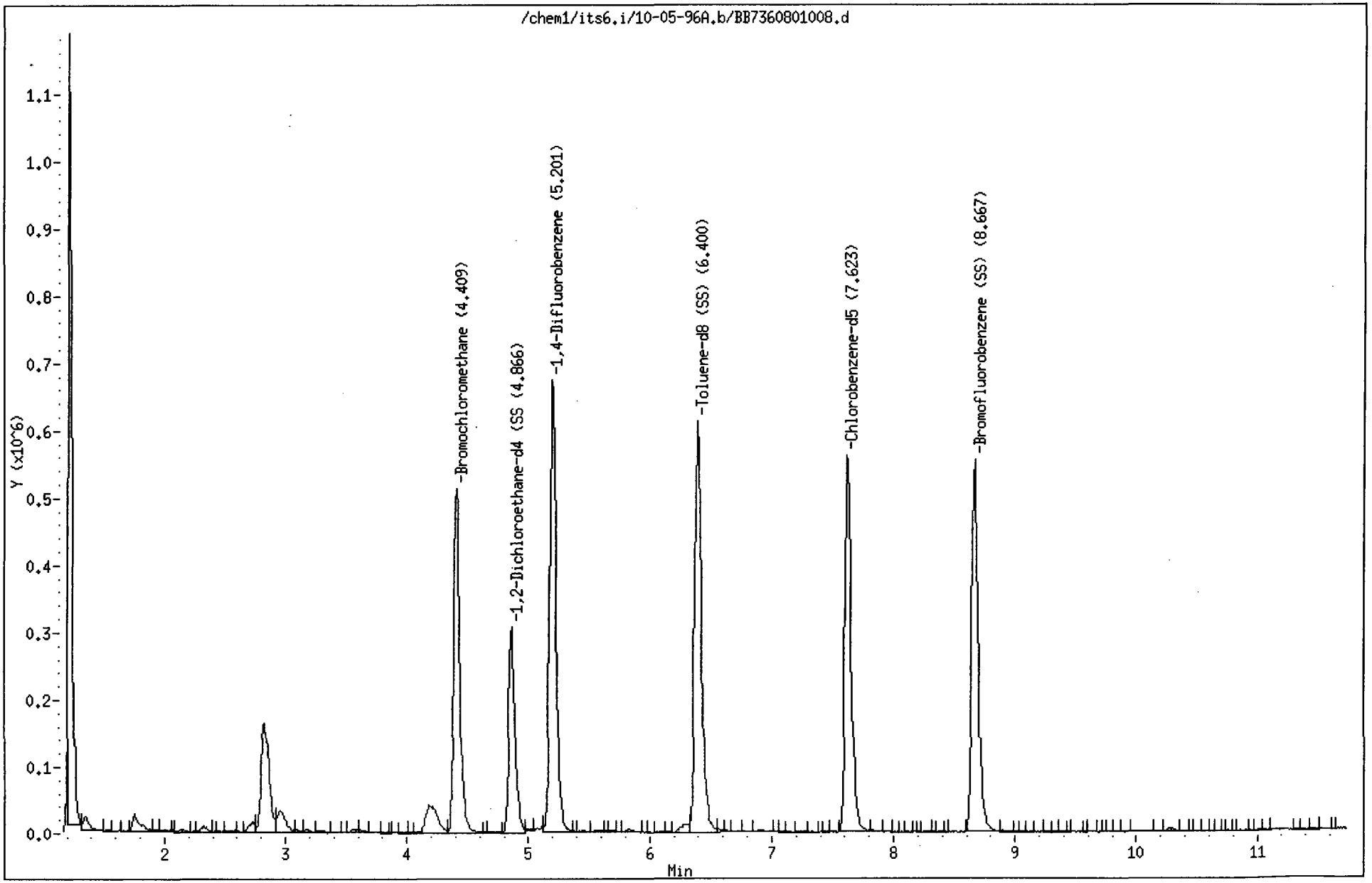
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 21 1,2-Dichloroethane	50.0	46.0	92.04	76-115
$ 31 Toluene-d8 (SS)	50.0	51.2	102.39	88-110
$ 45 Bromofluorobenzene	50.0	50.6	101.15	86-115

Data File: /chem1/its6.i/10-05-96A.b/BB7360801008.d
Date : 05-OCT-1996 16:36
Client ID: AT_KEARNEY 5ML <2
Sample Info: IL_8240_L;;ITS6-842;1;<2
Purge Volume: 5.0
Column phase: 2.00

Instrument: its6.i

Operator: MICHELLE
Column diameter: 0.53

33



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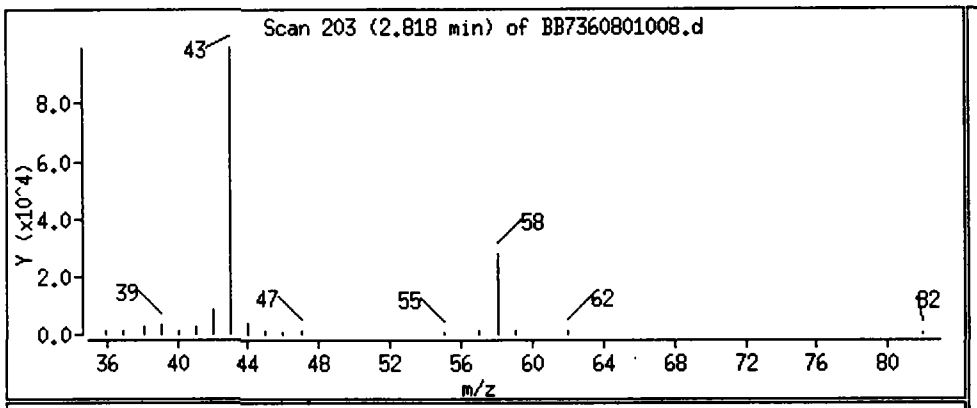
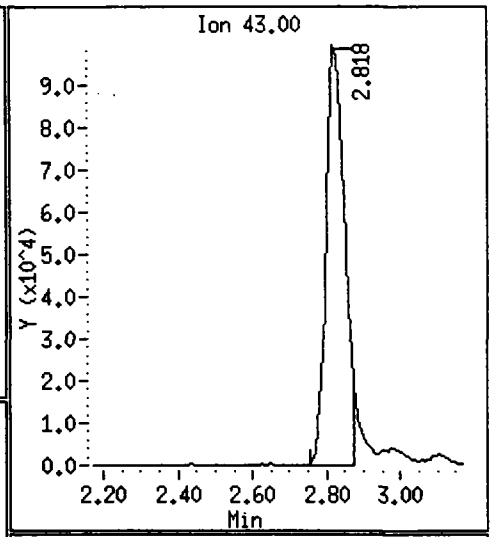
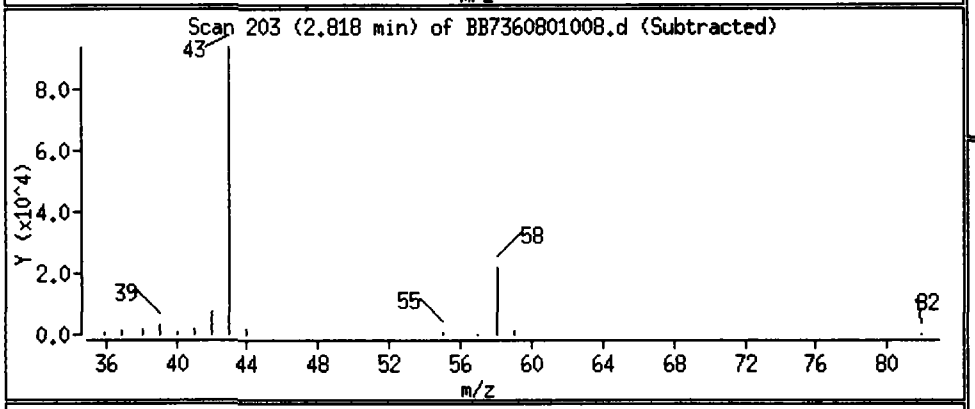
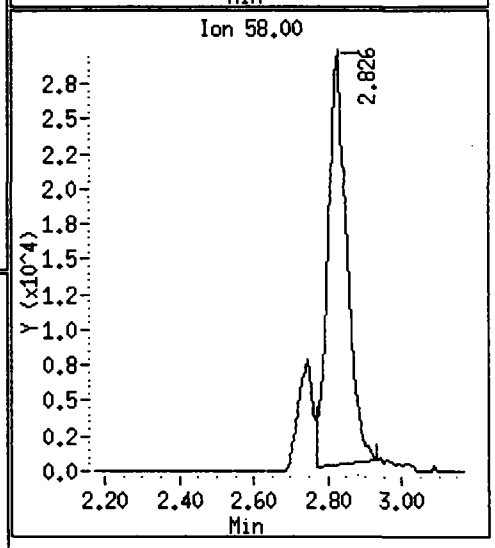
Date : 05-OCT-1996 16:36
Client ID: AT_KEARNEY 5ML <2
Instrument: its6.i
Sample Info: IL_8240_L;;ITS6-842;1;<2
Purge Volume: 5.0
Operator: MICHELLE
Column phase: 2.00
Column diameter: 0.53

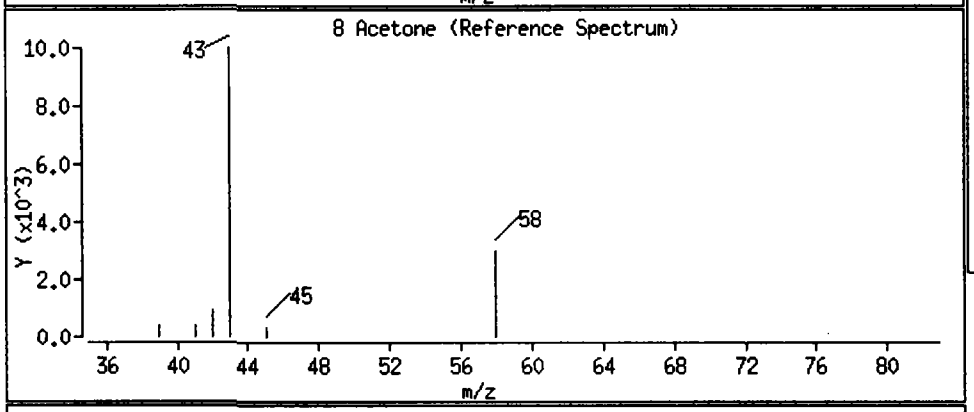
8 Acetone

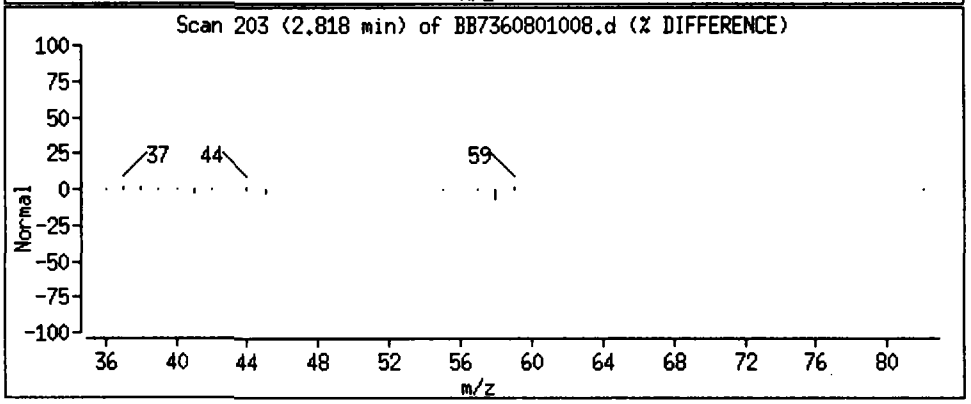












Data File: /chem1/its6.i/10-05-96A.b/BB7360801008.d

Date : 05-OCT-1996 16:36

Client ID: AT_KEARNEY 5ML <2

Instrument: its6.i

Sample Info: IL_8240_L;;ITS6-842:1;<2

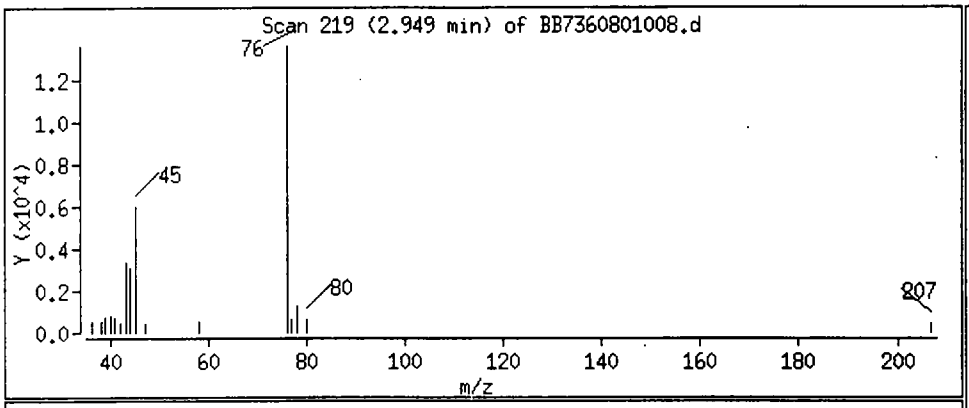
Purge Volume: 5.0

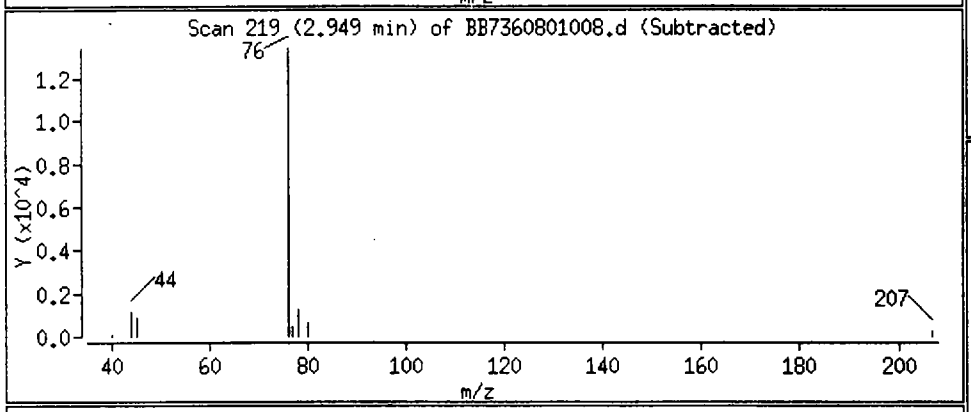
Operator: MICHELLE

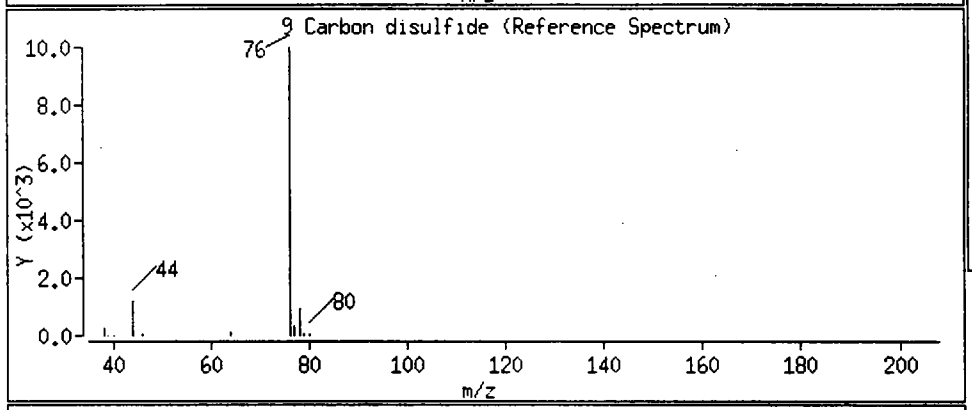
Column phase: 2.00

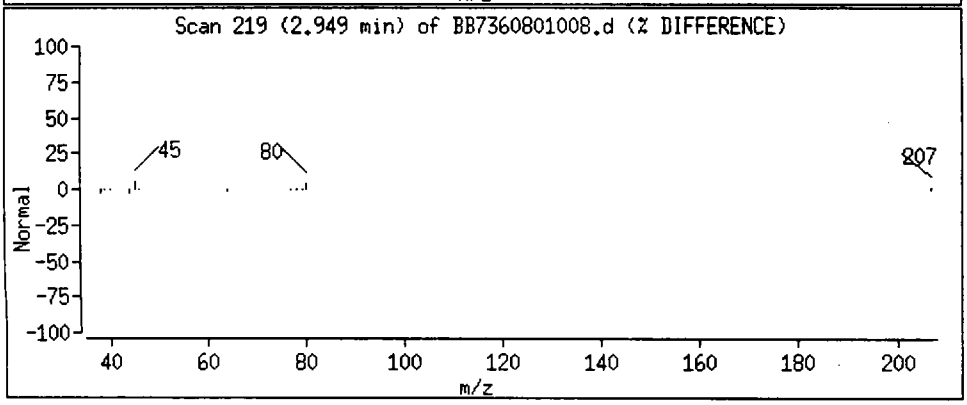
Column diameter: 0.53

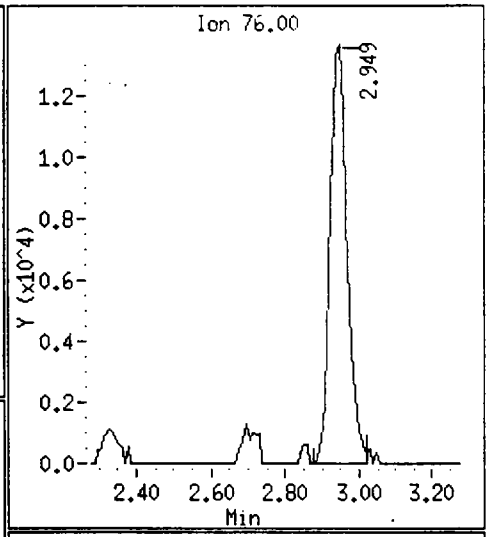
9 Carbon disulfide

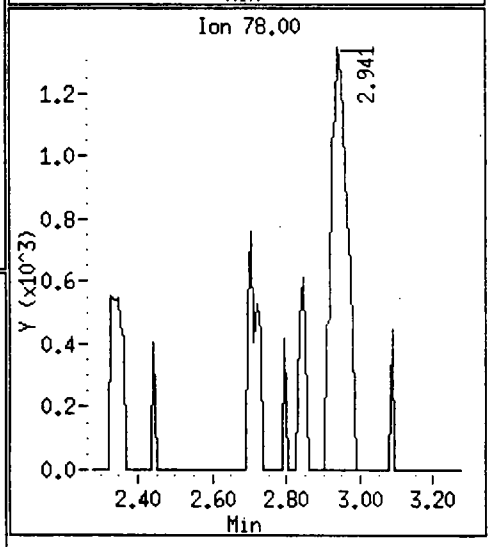












FORM 1 VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

AT Kearney, Inc.

| TB001

Lab Name: ITS Dallas Contract:

Lab Code: 11169 Case No.: SAS No.: SDG No.: D96-10809

Matrix (soil/water): Water Lab Sample ID: D96-10809-2

Sample wt/vol: 5.0 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received : 27-SEP-1996

% Moisture: 0.0 decanted(Y/N) N Date Analyzed: 5-OCT-1996

GC Column: ID: 0.53(mm) Dilution Factor: 1

Soil Extract Volume:_____(mL) Soil Aliquot Volume:_____(çL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	10.0	U
75-05-8	Acetonitrile	100	U
107-02-8	Acrolein	10.0	U
107-13-1	Acrylonitrile	10.0	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
78-93-3	2-Butanone	10.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
----------	2-Chloro-1,3-butadiene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
----------	3-Chloropropene	10.0	U
96-12-8	1,2-Dibromo-3-chloropropane	20.0	U
106-93-4	1,2-Dibromoethane	1.0	U
74-95-3	Dibromomethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
540-59-0	trans-1,2-Dichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
123-91-1	1,4-Dioxane	500	U
----------	Ethyl benzene	1.0	U

FORM 1 VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

AT Kearney, Inc.

| TB001 |

Name: ITS Dallas Contract:

Lab Code: 11169 Case No.: SAS No.: SDG No.: D96-10809

Matrix (soil/water): Water Lab Sample ID: D96-10809-2

Sample wt/vol: 5.0 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received : 27-SEP-1996

% Moisture: 0.0 decanted(Y/N) N Date Analyzed: 5-OCT-1996

GC Column: ID: 0.53(mm) Dilution Factor: 1

Soil Extract Volume:_____(mL) Soil Aliquot Volume:_____(çL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
97-63-2	Ethyl methacrylate	1.0	U
591-78-6	2-Hexanone	10.0	U
74-88-4	Iodomethane	10.0	U
78-83-1	Isobutyl alcohol	500	U
126-98-7	Methacrylonitrile	20.0	U
80-62-6	Methyl methacrylate	1.0	U
108-10-1	4-Methyl-2-pentanone	10.0	U
75-09-2	Methylene chloride	3.4	
107-12-0	Propionitrile	1.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	10.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB001

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7360901009

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1066-40-6	TRIMETHYSILANOL	4.18	18.8	NJ
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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25.				
26.				
27.				
28.				
29.				
30.				

Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/10-05-96A.b/BB7360901009.d
Lab Smp Id: D96-10809-2 Client Smp ID: AT_KEARNEY 5ML <2
Inj Date : 05-OCT-1996 16:55 Autotune Date: 06-Aug-96 17:28
Operator : MICHELLE Inst ID: its6.i
Smp Info : IL_8240_L;;ITS6-842;1;<2
Misc Info : AT_KEARNEY 5ML <2
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle Quant Type: ISTD
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 9
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: 8240.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
10 Methylene chloride	84.00	3.176	3.023	(0.719)	19839	3.41	3.41(a)
* 17 Bromochloromethane	128.00	4.415	4.248	(1.000)	267967	50.0	
$ 21 1,2-Dichloroethane-d4 (SS)	65.00	4.864	4.705	(1.102)	374701	45.6	45.6
* 24 1,4-Difluorobenzene	114.00	5.199	5.049	(1.000)	1011530	50.0	
$ 31 Toluene-d8 (SS)	98.00	6.397	6.249	(0.839)	841032	53.5	53.5
* 38 Chlorobenzene-d5	117.00	7.629	7.483	(1.000)	627388	50.0	
$ 45 Bromofluorobenzene (SS)	95.00	8.665	8.529	(1.136)	421063	51.9	51.9

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem1/its6.i/10-05-96A.b/BB7360901009.d
Lab Smp Id: D96-10809-2 Client Smp ID: AT_KEARNEY 5ML <2
Inj Date : 05-OCT-1996 16:55 Autotune Date: 06-Aug-96 17:28:4
Operator : MICHELLE Inst ID: its6.i
Smp Info : IL_8240_L;;ITS6-842;1;<2
Misc Info : AT_KEARNEY 5ML <2
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 9
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: 8240.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

ISTD	RT	AREA	AMOUNT
* 17 Bromochloromethane	4.415	1870760	50.000
* 38 Chlorobenzene-d5	7.629	2056159	50.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Trimethysilanol				CAS #: 1066-40-6			
4.179	703061	18.8	18.8	80	NBS75K.l	62980	17

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7360901009.d
Lab Smp Id: D96-10809-2
Analysis Type: VOA
Quant Type: ISTD
Operator: MICHELLE
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: AT_KEARNEY 5ML <2

Calibration Date: 10/05/96
Calibration Time: 1441
Client Smp ID: AT_KEARNEY 5ML
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	251462	125731	502924	267967	6.56
24 1,4-Difluorobenzene	959044	479522	1918088	1011530	5.47
38 Chlorobenzene-d5	612295	306148	1224590	627388	2.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.41	3.91	4.91	4.42	0.10
24 1,4-Difluorobenzene	5.20	4.70	5.70	5.20	-0.10
38 Chlorobenzene-d5	7.62	7.12	8.12	7.63	0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

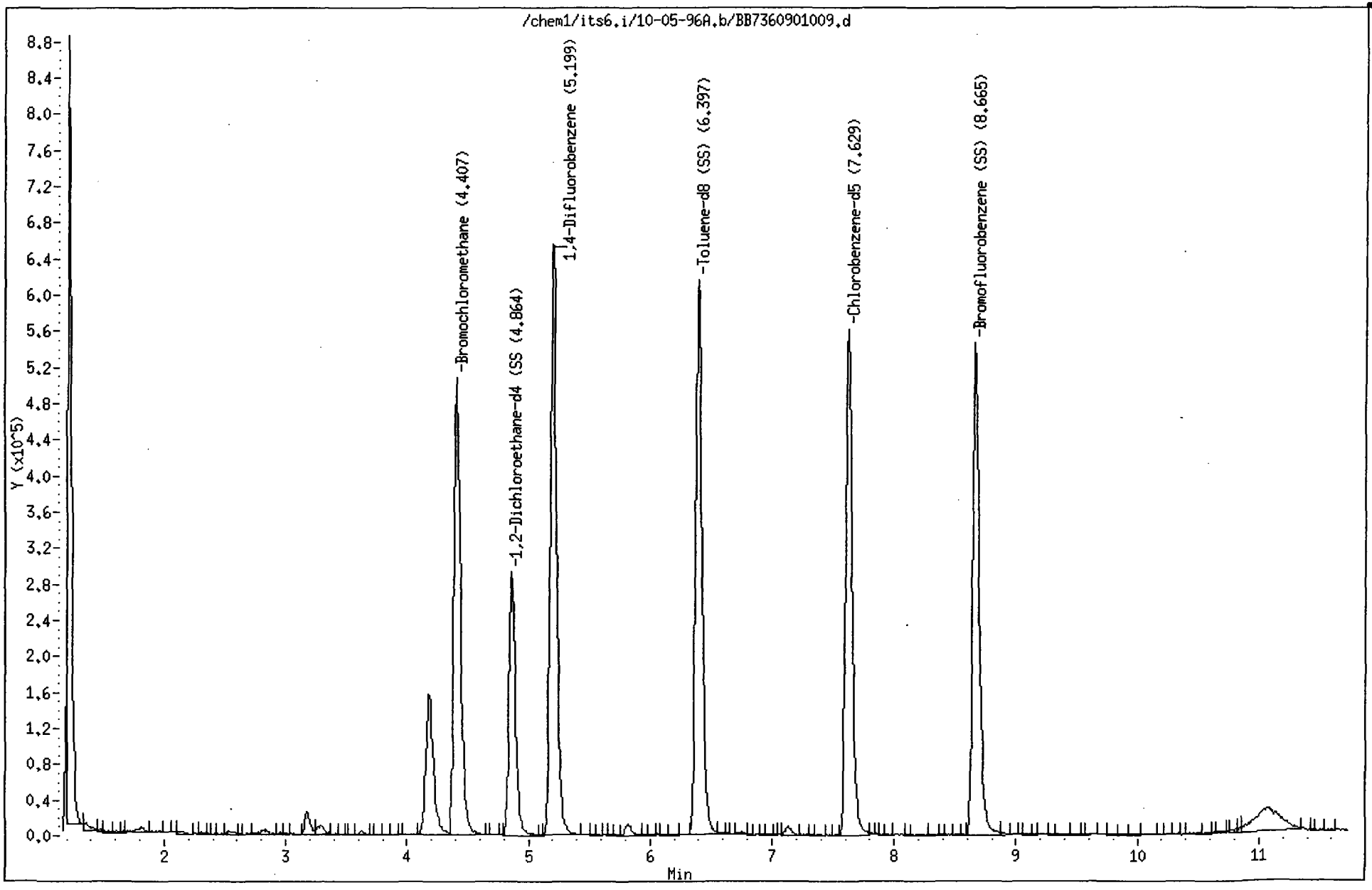
RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-2
Level: LOW
Data Type: MS DATA
SpikeList File: liquidqc.spk
Client SDG: 10-05-96A
Fraction: VOA
Client Smp ID: AT_KEARNEY 5ML <2
Operator: MICHELLE
SampleType: SAMPLE
Quant Type: ISTD
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: AT_KEARNEY 5ML <2

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 21 1,2-Dichloroethane	50.0	45.6	91.32	76-115
$ 31 Toluene-d8 (SS)	50.0	53.5	106.94	88-110
$ 45 Bromofluorobenzene	50.0	51.9	103.72	86-115

Data File: /chem1/its6.i/10-05-96A.b/BB7360901009.d
Date : 05-OCT-1996 16:55
Client ID: AT_KEARNEY 5ML <2
Sample Info: IL_8240_L;;ITS6-842;1;<2
Purge Volume: 5.0
Column phase: 2.00

Instrument: its6.i
Operator: MICHELLE
Column diameter: 0.53



43

Data File: /chem1/its6.i/10-05-96A.b/BB7360901009.d

Date : 05-OCT-1996 16:55

Client ID: AT_KEARNEY 5ML <2

Instrument: its6.i

Sample Info: IL_8240_L;;ITS6-842;1;<2

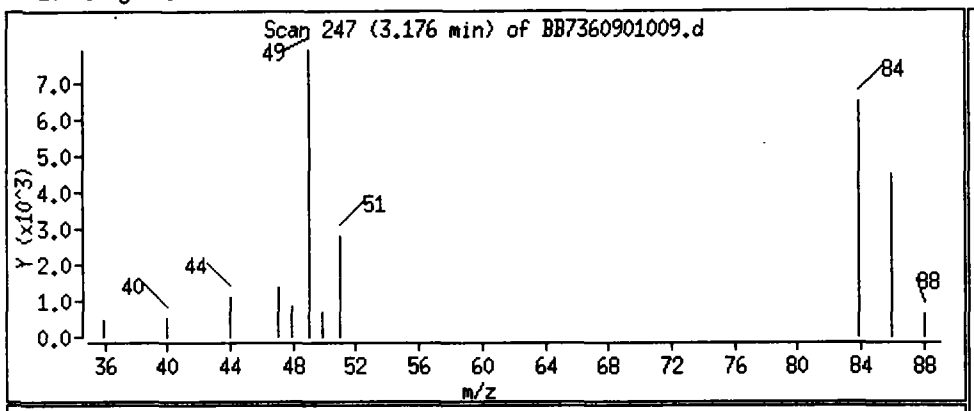
Purge Volume: 5.0

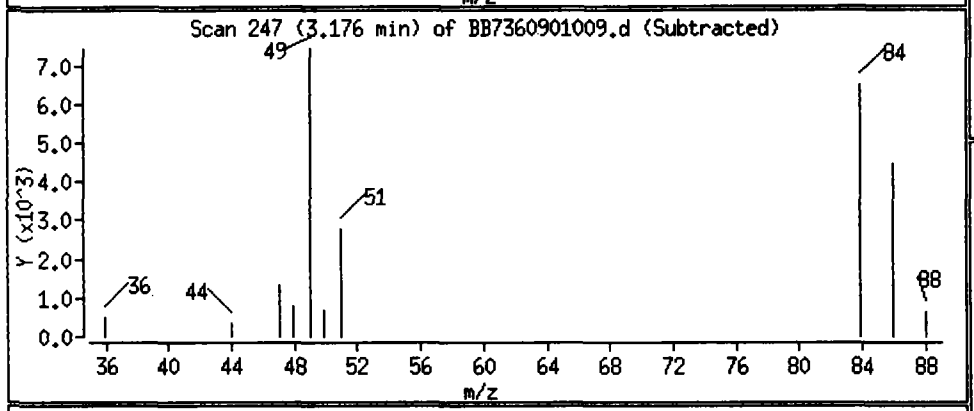
Operator: MICHELLE

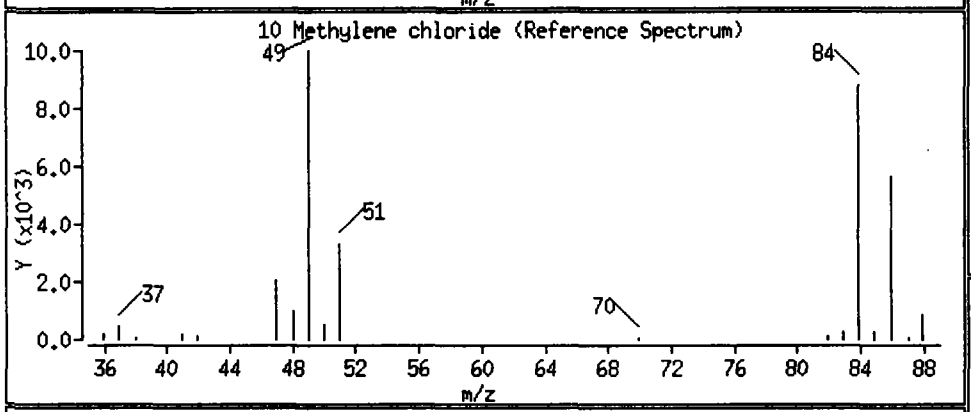
Column phase: 2.00

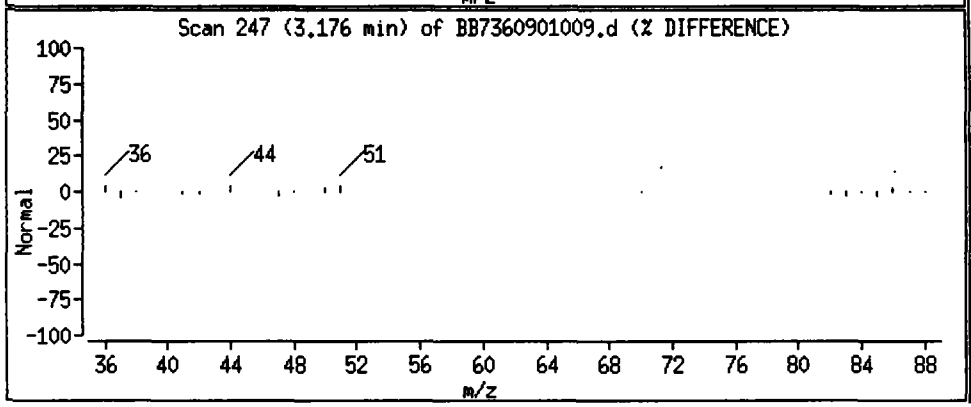
Column diameter: 0.53

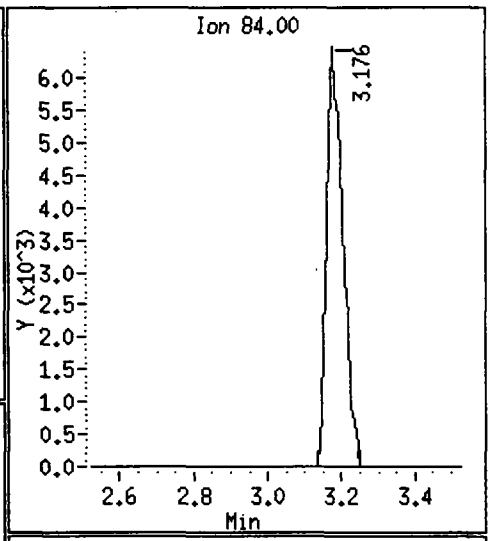
10 Methylene chloride

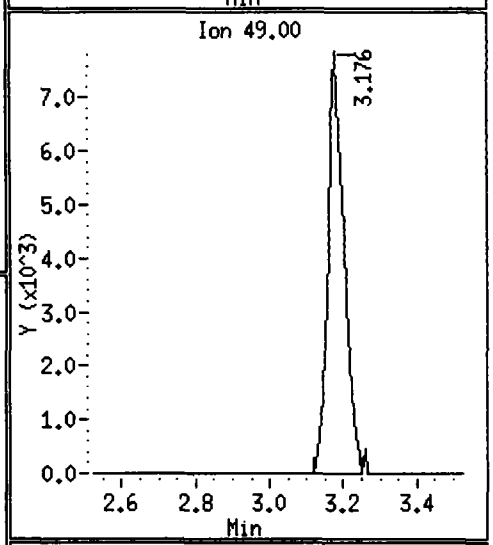


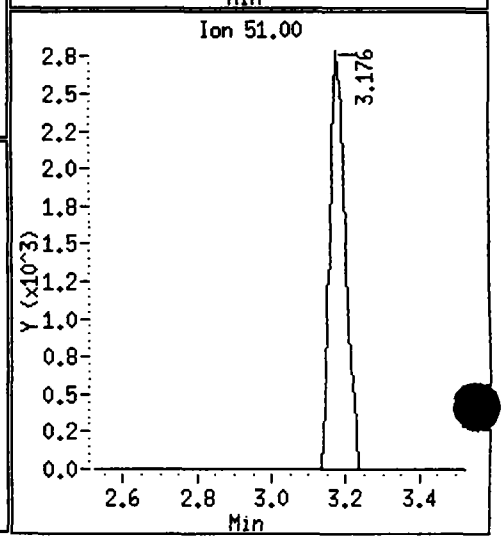












Data File: /chem1/its6.i/10-05-96A.b/BB7360901009.d

Date : 05-OCT-1996 16:55

Client ID: AT_KEARNEY 5ML <2

Instrument: its6.i

Sample Info: IL_8240_L;;ITS6-842;1;<2

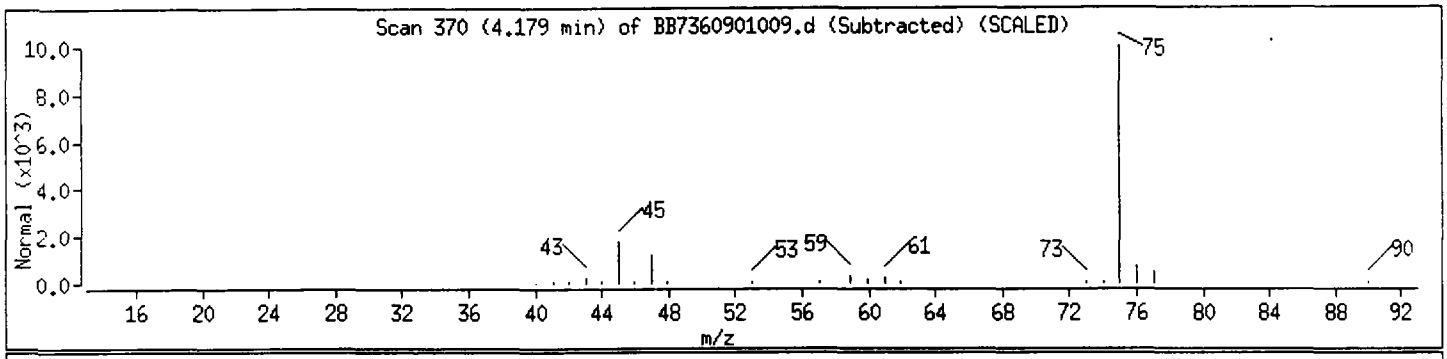
Purge Volume: 5.0

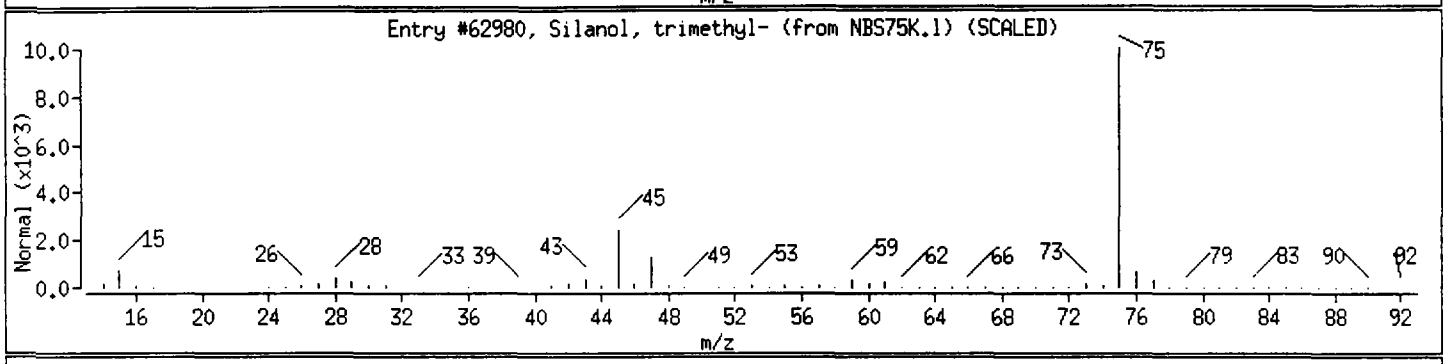
Operator: MICHELLE

Column phase: 2.00

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Trimethysilanol	1066-40-6	NBS75K.l	62980	80	C3H10OSi	90
Silanol, trimethyl-	1066-40-6	NBS75K.l	907	78	C3H10OSi	90





FORM 1 VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

AT Kearney, Inc.

| MW000RFIMW2 |

Lab Name: ITS Dallas Contract:

Lab Code: 11169 Case No.: SAS No.: SDG No.: D96-10809

Matrix (soil/water): Water Lab Sample ID: D96-10809-3

Sample wt/vol: 5.0 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received : 27-SEP-1996

% Moisture: 0.0 decanted(Y/N) N Date Analyzed: 5-OCT-1996

GC Column: ID: 0.53(mm) Dilution Factor: 1

Soil Extract Volume:_____(mL) Soil Aliquot Volume:_____(çL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	10.0	U
75-05-8	Acetonitrile	100	U
107-02-8	Acrolein	10.0	U
107-13-1	Acrylonitrile	10.0	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
78-93-3	2-Butanone	10.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
	2-Chloro-1,3-butadiene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
	3-Chloropropene	10.0	U
96-12-8	1,2-Dibromo-3-chloropropane	20.0	U
106-93-4	1,2-Dibromoethane	1.0	U
74-95-3	Dibromomethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
540-59-0	trans-1,2-Dichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
123-91-1	1,4-Dioxane	500	U
	Ethyl benzene	1.0	U

FORM 1 VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

AT Kearney, Inc.

| MW000RFIMW2 |

Name: ITS Dallas Contract:

Lab Code: 11169 Case No.: SAS No.: SDG No.: D96-10809

Matrix (soil/water): Water Lab Sample ID: D96-10809-3

Sample wt/vol: 5.0 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received : 27-SEP-1996

% Moisture: 0.0 decanted(Y/N) N Date Analyzed: 5-OCT-1996

GC Column: ID: 0.53(mm) Dilution Factor: 1

Soil Extract Volume:_____(mL) Soil Aliquot Volume:_____(çL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
97-63-2	Ethyl methacrylate	1.0	U
591-78-6	2-Hexanone	10.0	U
74-88-4	Iodomethane	10.0	U
78-83-1	Isobutyl alcohol	500	U
126-98-7	Methacrylonitrile	20.0	U
80-62-6	Methyl methacrylate	1.0	U
108-10-1	4-Methyl-2-pentanone	10.0	U
75-09-2	Methylene chloride	1.0	U
107-12-0	Propionitrile	1.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	10.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW000RFIMW2

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-3

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7361001010

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1066-40-6	TRIMETHYLSILANOL	4.18	18.7	NJ
2.				
3.				
4.				
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Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/10-05-96A.b/BB7361001010.d
Lab Smp Id: D96-10809-3 Client Smp ID: AT_KEARNEY 5ML <2
Inj Date : 05-OCT-1996 17:14 Autotune Date: 06-Aug-96 17:28
Operator : MICHELLE Inst ID: its6.i
Smp Info : IL_8240_L;;ITS6-842;1;<2
Misc Info : AT_KEARNEY 5ML <2
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle Quant Type: ISTD
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 10
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: 8240.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 17 Bromochloromethane	128.00	4.408	4.248	(1.000)	269271	50.0	
$ 21 1,2-Dichloroethane-d4 (SS)	65.00	4.865	4.705	(1.104)	404484	49.0	49.0
* 24 1,4-Difluorobenzene	114.00	5.199	5.049	(1.000)	1021282	50.0	
$ 31 Toluene-d8 (SS)	98.00	6.398	6.249	(0.839)	852564	52.3	52.3
* 38 Chlorobenzene-d5	117.00	7.621	7.483	(1.000)	650630	50.0	
$ 45 Bromofluorobenzene (SS)	95.00	8.665	8.529	(1.137)	432774	51.4	51.4

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem1/its6.i/10-05-96A.b/BB7361001010.d
Lab Smp Id: D96-10809-3 Client Smp ID: AT_KEARNEY 5ML <2
Inj Date : 05-OCT-1996 17:14 Autotune Date: 06-Aug-96 17:28:4
Operator : MICHELLE Inst ID: its6.i
Smp Info : IL_8240_L;;ITS6-842;1;<2
Misc Info : AT_KEARNEY 5ML <2
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 10
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: 8240.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

ISTD	RT	AREA	AMOUNT
* 17 Bromochloromethane	4.408	1851649	50.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Trimethylsilanol					CAS #: 1066-40-6		
4.180	691310	18.7	18.7	64	NBS75K.l	907	17

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7361001010.d
Lab Smp Id: D96-10809-3
Analysis Type: VOA
Quant Type: ISTD
Operator: MICHELLE
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: AT_KEARNEY 5ML <2

Calibration Date: 10/05/96
Calibration Time: 1441
Client Smp ID: AT_KEARNEY 5ML
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	251462	125731	502924	269271	7.08
24 1,4-Difluorobenzene	959044	479522	1918088	1021282	6.49
38 Chlorobenzene-d5	612295	306148	1224590	650630	6.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.41	3.91	4.91	4.41	-0.08
24 1,4-Difluorobenzene	5.20	4.70	5.70	5.20	-0.09
38 Chlorobenzene-d5	7.62	7.12	8.12	7.62	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-3
Level: LOW
Data Type: MS DATA
SpikeList File: liquidqc.spk
Client SDG: 10-05-96A
Fraction: VOA
Client Smp ID: AT_KEARNEY 5ML <2
Operator: MICHELLE
SampleType: SAMPLE
Quant Type: ISTD
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: AT_KEARNEY 5ML <2

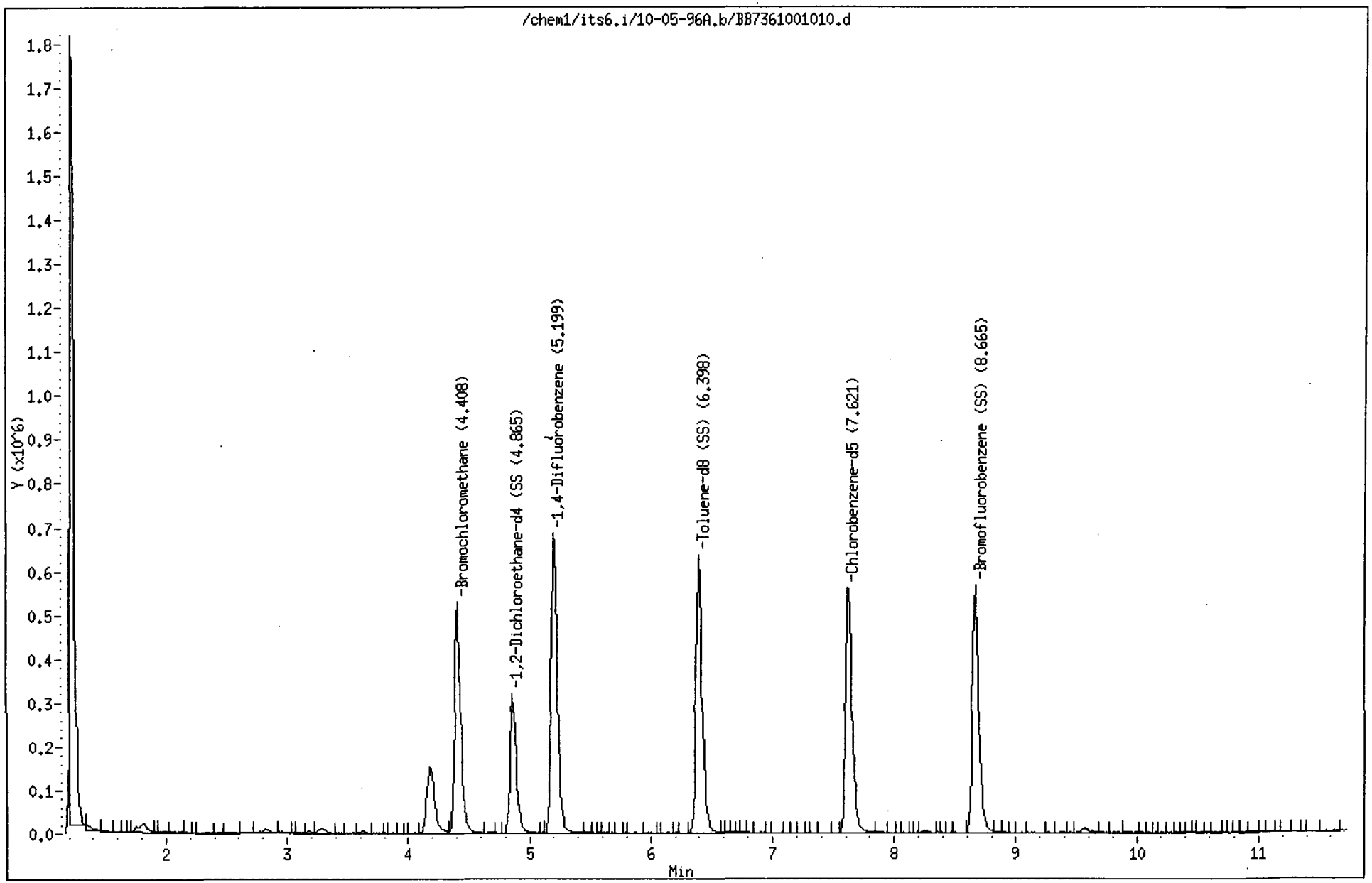
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 21 1,2-Dichloroethane	50.0	49.0	98.10	76-115
$ 31 Toluene-d8 (SS)	50.0	52.3	104.53	88-110
$ 45 Bromofluorobenzene	50.0	51.4	102.80	86-115

Data File: /chem1/its6.i/10-05-96A.b/BB7361001010.d
Date : 05-OCT-1996 17:14
Client ID: AT_KEARNEY 5ML <2
Sample Info: IL_8240_L;;ITS6-842;1;<2
Purge Volume: 5.0
Column phase: 2.00

Instrument: its6.i

Operator: MICHELLE
Column diameter: 0.53

53



Data File: /chem1/its6.i/10-05-96A.b/BB7361001010.d

Date : 05-OCT-1996 17:14

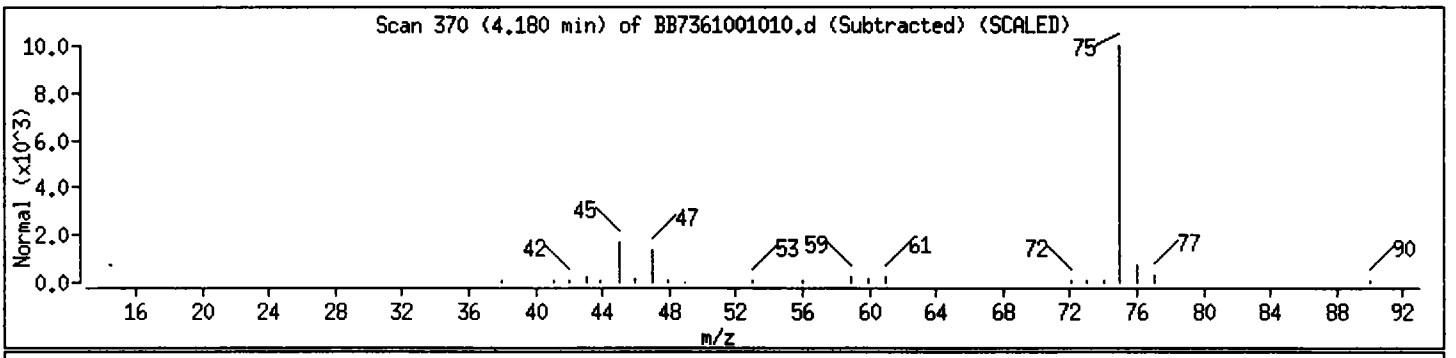
Client ID: AT_KEARNEY 5ML <2 Instrument: its6.i

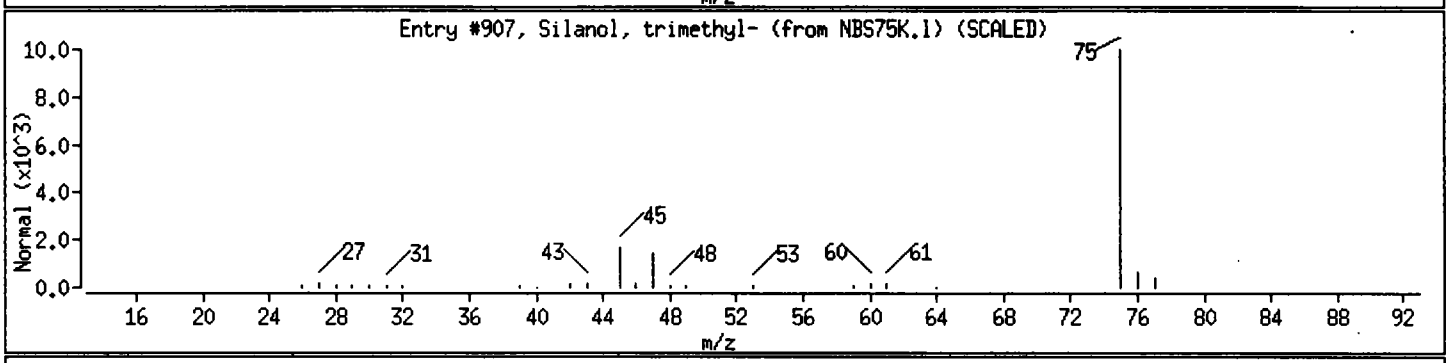
Sample Info: IL_8240_L;;ITS6-842;1;<2

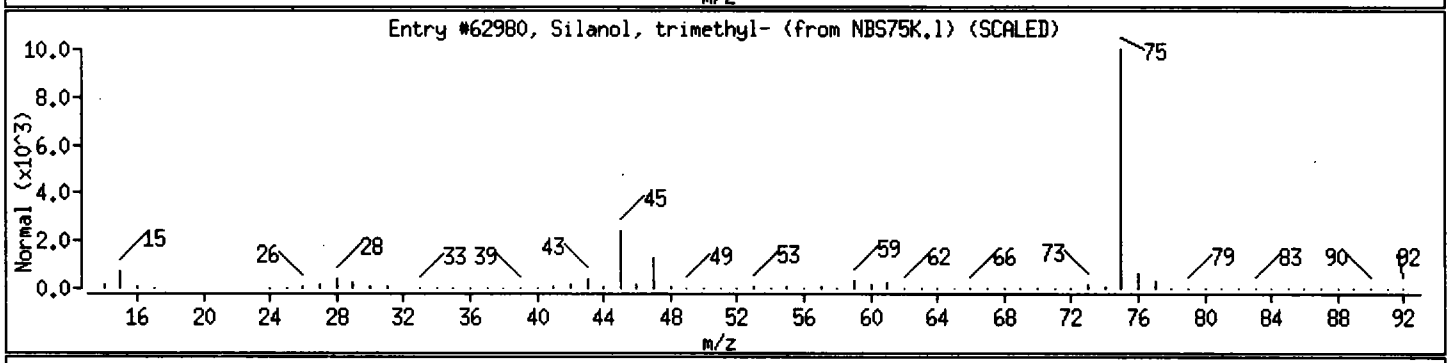
Purge Volume: 5.0 Operator: MICHELLE

Column phase: 2.00 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Trimethylsilanol	1066-40-6	NBS75K.l	907	64	C3H10OSi	90
Silanol, trimethyl-	1066-40-6	NBS75K.l	62980	47	C3H10OSi	90







FORM 1 VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

AT Kearney, Inc.

| RFIMW15 |

I[illegible] Name: ITS Dallas Contract:

Lab Code: 11169 Case No.: SAS No.: SDG No.: D96-10809

Matrix (soil/water): Water Lab Sample ID: D96-10809-4

Sample wt/vol: 5.0 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received : 27-SEP-1996

% Moisture: 0.0 decanted(Y/N) N Date Analyzed: 5-OCT-1996

GC Column: ID: 0.53(mm) Dilution Factor: 1

Soil Extract Volume:_____(mL) Soil Aliquot Volume:_____(çL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	10.0	U
75-05-8	Acetonitrile	100	U
107-02-8	Acrolein	10.0	U
107-13-1	Acrylonitrile	10.0	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
78-93-3	2-Butanone	10.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
	2-Chloro-1,3-butadiene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
	3-Chloropropene	10.0	U
96-12-8	1,2-Dibromo-3-chloropropane	20.0	U
106-93-4	1,2-Dibromoethane	1.0	U
74-95-3	Dibromomethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
540-59-0	trans-1,2-Dichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
123-91-1	1,4-Dioxane	500	U
	Ethyl benzene	1.0	U

FORM 1 VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

AT Kearney, Inc.

| RFIMW15

Lab Name: ITS Dallas Contract:

Lab Code: 11169 Case No.: SAS No.: SDG No.: D96-10809

Matrix (soil/water): Water Lab Sample ID: D96-10809-4

Sample wt/vol: 5.0 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received : 27-SEP-1996

% Moisture: 0.0 decanted(Y/N) N Date Analyzed: 5-OCT-1996

GC Column: ID: 0.53(mm) Dilution Factor: 1

Soil Extract Volume:_____(mL) Soil Aliquot Volume:_____(çL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
97-63-2	Ethyl methacrylate	1.0	U
591-78-6	2-Hexanone	10.0	U
74-88-4	Iodomethane	10.0	U
78-83-1	Isobutyl alcohol	500	U
126-98-7	Methacrylonitrile	20.0	U
80-62-6	Methyl methacrylate	1.0	U
108-10-1	4-Methyl-2-pentanone	10.0	U
75-09-2	Methylene chloride	1.0	U
107-12-0	Propionitrile	1.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	10.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

RFIMW15

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7361101011

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/10-05-96A.b/BB7361101011.d
Lab Smp Id: D96-10809-4 Client Smp ID: AT_KEARNEY 5ML <2
Inj Date : 05-OCT-1996 17:33 Autotune Date: 06-Aug-96 17:28
Operator : MICHELLE Inst ID: its6.i
Smp Info : IL_8240_L;;ITS6-842;1;<2
Misc Info : AT_KEARNEY 5ML <2
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle Quant Type: ISTD
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 11
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: 8240.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 17 Bromochloromethane	128.00	4.407	4.248	(1.000)	273535	50.0	
$ 21 1,2-Dichloroethane-d4 (SS)	65.00	4.856	4.705	(1.102)	395824	47.2	47.2
* 24 1,4-Difluorobenzene	114.00	5.199	5.049	(1.000)	1024251	50.0	
$ 31 Toluene-d8 (SS)	98.00	6.397	6.249	(0.839)	871050	51.6	51.6
* 38 Chlorobenzene-d5	117.00	7.629	7.483	(1.000)	673646	50.0	
$ 45 Bromofluorobenzene (SS)	95.00	8.665	8.529	(1.136)	449021	51.5	51.5

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem1/its6.i/10-05-96A.b/BB7361101011.d
Lab Smp Id: D96-10809-4 Client Smp ID: AT_KEARNEY 5ML <2
Inj Date : 05-OCT-1996 17:33 Autotune Date: 06-Aug-96 17:28:4
Operator : MICHELLE Inst ID: its6.i
Smp Info : IL_8240_L;;ITS6-842;1;<2
Misc Info : AT_KEARNEY 5ML <2
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 11
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: 8240.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7361101011.d
Lab Smp Id: D96-10809-4
Analysis Type: VOA
Quant Type: ISTD
Operator: MICHELLE
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: AT_KEARNEY 5ML <2

Calibration Date: 10/05/96
Calibration Time: 1441
Client Smp ID: AT_KEARNEY 5ML
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	251462	125731	502924	273535	8.78
24 1,4-Difluorobenzene	959044	479522	1918088	1024251	6.80
38 Chlorobenzene-d5	612295	306148	1224590	673646	10.02

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.41	3.91	4.91	4.41	-0.08
24 1,4-Difluorobenzene	5.20	4.70	5.70	5.20	-0.10
38 Chlorobenzene-d5	7.62	7.12	8.12	7.63	0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

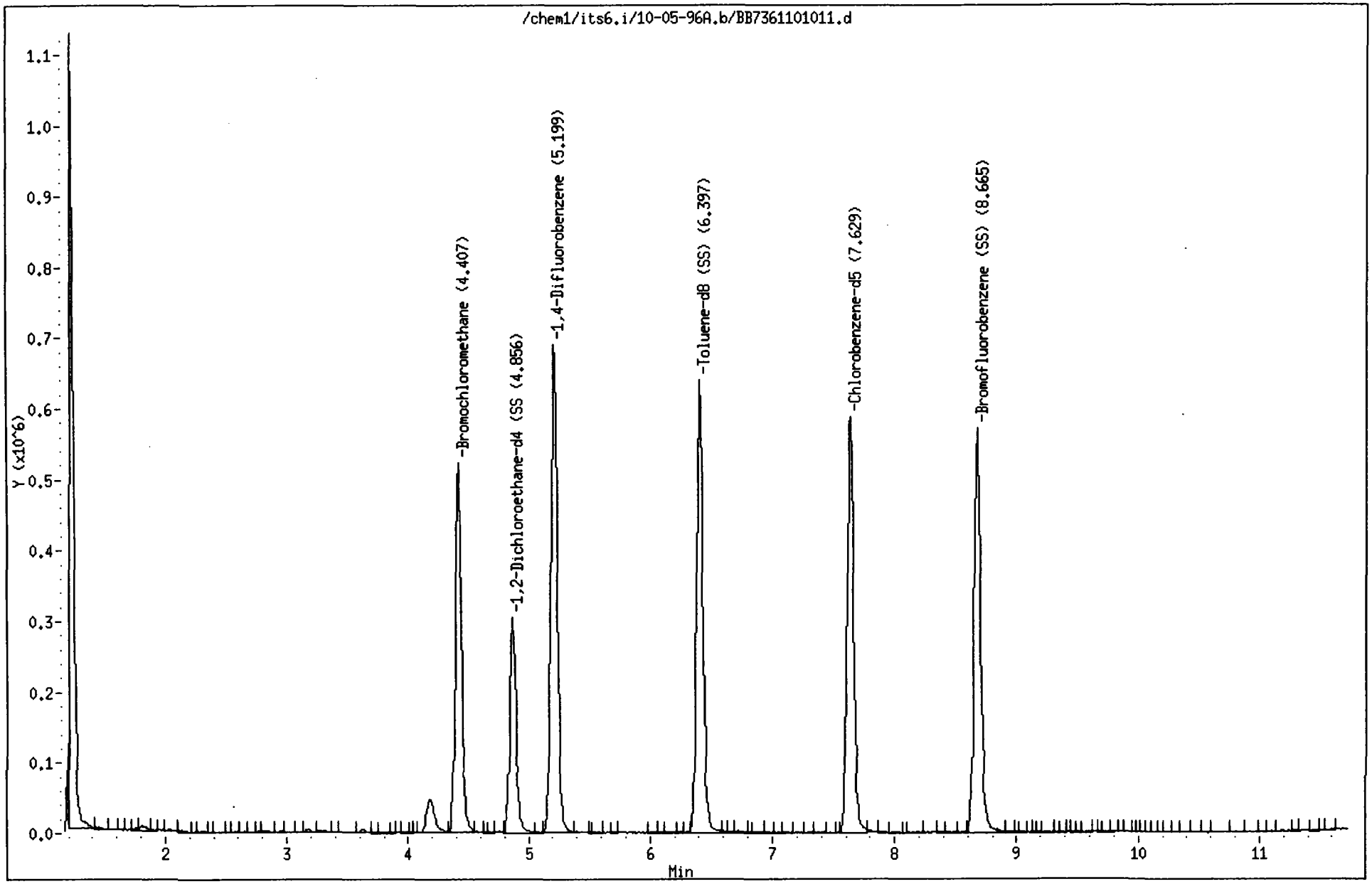
Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-4
Level: LOW
Data Type: MS DATA
SpikeList File: liquidqc.spk
Client SDG: 10-05-96A
Fraction: VOA
Client Smp ID: AT_KEARNEY 5ML <2
Operator: MICHELLE
SampleType: SAMPLE
Quant Type: ISTD
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: AT_KEARNEY 5ML <2

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 21 1,2-Dichloroethane	50.0	47.2	94.50	76-115
$ 31 Toluene-d8 (SS)	50.0	51.6	103.15	88-110
$ 45 Bromofluorobenzene	50.0	51.5	103.01	86-115

Data Fi[illegible]/chem1/its6.i/10-05-96A.b/BB7361101011.d
Date : 05-OCT-1996 17:33
Client ID: AT_KEARNEY 5ML <2
Sample Info: IL_8240_L;;ITS6-842;1;<2
Purge Volume: 5.0
Column phase: 2.00

Instrument: its6.i

Operator: MICHELLE
Column diameter: 0.53



FORM 1 VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

AT Kearney, Inc.

| RFIMW115F |

Lab Name: ITS Dallas Contract:

Lab Code: 11169 Case No.: SAS No.: SDG No.: D96-10809

Matrix (soil/water): Water Lab Sample ID: D96-10809-5

Sample wt/vol: 5.0 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received : 27-SEP-1996

% Moisture: 0.0 decanted(Y/N) N Date Analyzed: 5-OCT-1996

GC Column: ID: 0.53(mm) Dilution Factor: 1

Soil Extract Volume:_____(mL) Soil Aliquot Volume:_____(çL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	10.0	U
75-05-8	Acetonitrile	100	U
107-02-8	Acrolein	10.0	U
107-13-1	Acrylonitrile	10.0	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
78-93-3	2-Butanone	10.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
	2-Chloro-1,3-butadiene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
	3-Chloropropene	10.0	U
96-12-8	1,2-Dibromo-3-chloropropane	20.0	U
106-93-4	1,2-Dibromoethane	1.0	U
74-95-3	Dibromomethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
540-59-0	trans-1,2-Dichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
123-91-1	1,4-Dioxane	500	U
	Ethyl benzene	1.0	U

FORM 1 VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

AT Kearney, Inc.

| RFIMW115F |

Lab Name: ITS Dallas Contract:

Lab Code: 11169 Case No.: SAS No.: SDG No.: D96-10809

Matrix (soil/water): Water Lab Sample ID: D96-10809-5

Sample wt/vol: 5.0 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received : 27-SEP-1996

% Moisture: 0.0 decanted(Y/N) N Date Analyzed: 5-OCT-1996

GC Column: ID: 0.53(mm) Dilution Factor: 1

Soil Extract Volume:_____(mL) Soil Aliquot Volume:_____(çL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
97-63-2	Ethyl methacrylate	1.0	U
591-78-6	2-Hexanone	10.0	U
74-88-4	Iodomethane	10.0	U
78-83-1	Isobutyl alcohol	500	U
126-98-7	Methacrylonitrile	20.0	U
80-62-6	Methyl methacrylate	1.0	U
108-10-1	4-Methyl-2-pentanone	10.0	U
75-09-2	Methylene chloride	1.0	U
107-12-0	Propionitrile	1.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	10.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

RFIMW115F

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-5

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7361201012

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/10-05-96A.b/BB7361201012.d
Lab Smp Id: D96-10809-5 Client Smp ID: AT_KEARNEY 5ML <2
Inj Date : 05-OCT-1996 17:52 Autotune Date: 06-Aug-96 17:28
Operator : MICHELLE Inst ID: its6.i
Smp Info : IL_8240_L;;ITS6-842;1;<2
Misc Info : AT_KEARNEY 5ML <2
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle Quant Type: ISTD
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 12
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: 8240.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 17 Bromochloromethane	128.00	4.407	4.248	(1.000)	270205	50.0	
$ 21 1,2-Dichloroethane-d4 (SS)	65.00	4.864	4.705	(1.104)	390037	47.1	47.1
* 24 1,4-Difluorobenzene	114.00	5.199	5.049	(1.000)	984935	50.0	
$ 31 Toluene-d8 (SS)	98.00	6.398	6.249	(0.839)	844637	52.2	52.2
* 38 Chlorobenzene-d5	117.00	7.629	7.483	(1.000)	645153	50.0	
$ 45 Bromofluorobenzene (SS)	95.00	8.665	8.529	(1.136)	421115	50.4	50.4

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem1/its6.i/10-05-96A.b/BB7361201012.d
Lab Smp Id: D96-10809-5 Client Smp ID: AT_KEARNEY 5ML <2
Inj Date : 05-OCT-1996 17:52 Autotune Date: 06-Aug-96 17:28:4
Operator : MICHELLE Inst ID: its6.i
Smp Info : IL_8240_L;;ITS6-842;1;<2
Misc Info : AT_KEARNEY 5ML <2
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 12
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: 8240.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7361201012.d
Lab Smp Id: D96-10809-5
Analysis Type: VOA
Quant Type: ISTD
Operator: MICHELLE
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: AT_KEARNEY 5ML <2

Calibration Date: 10/05/96
Calibration Time: 1441
Client Smp ID: AT_KEARNEY 5ML
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	251462	125731	502924	270205	7.45
24 1,4-Difluorobenzene	959044	479522	1918088	984935	2.70
38 Chlorobenzene-d5	612295	306148	1224590	645153	5.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.41	3.91	4.91	4.41	-0.08
24 1,4-Difluorobenzene	5.20	4.70	5.70	5.20	-0.10
38 Chlorobenzene-d5	7.62	7.12	8.12	7.63	0.08

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-5
Level: LOW
Data Type: MS DATA
SpikeList File: liquidqc.spk
Client SDG: 10-05-96A
Fraction: VOA
Client Smp ID: AT_KEARNEY 5ML <2
Operator: MICHELLE
SampleType: SAMPLE
Quant Type: ISTD
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: AT_KEARNEY 5ML <2

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 21 1,2-Dichloroethane	50.0	47.1	94.27	76-115
$ 31 Toluene-d8 (SS)	50.0	52.2	104.44	88-110
$ 45 Bromofluorobenzene	50.0	50.4	100.88	86-115

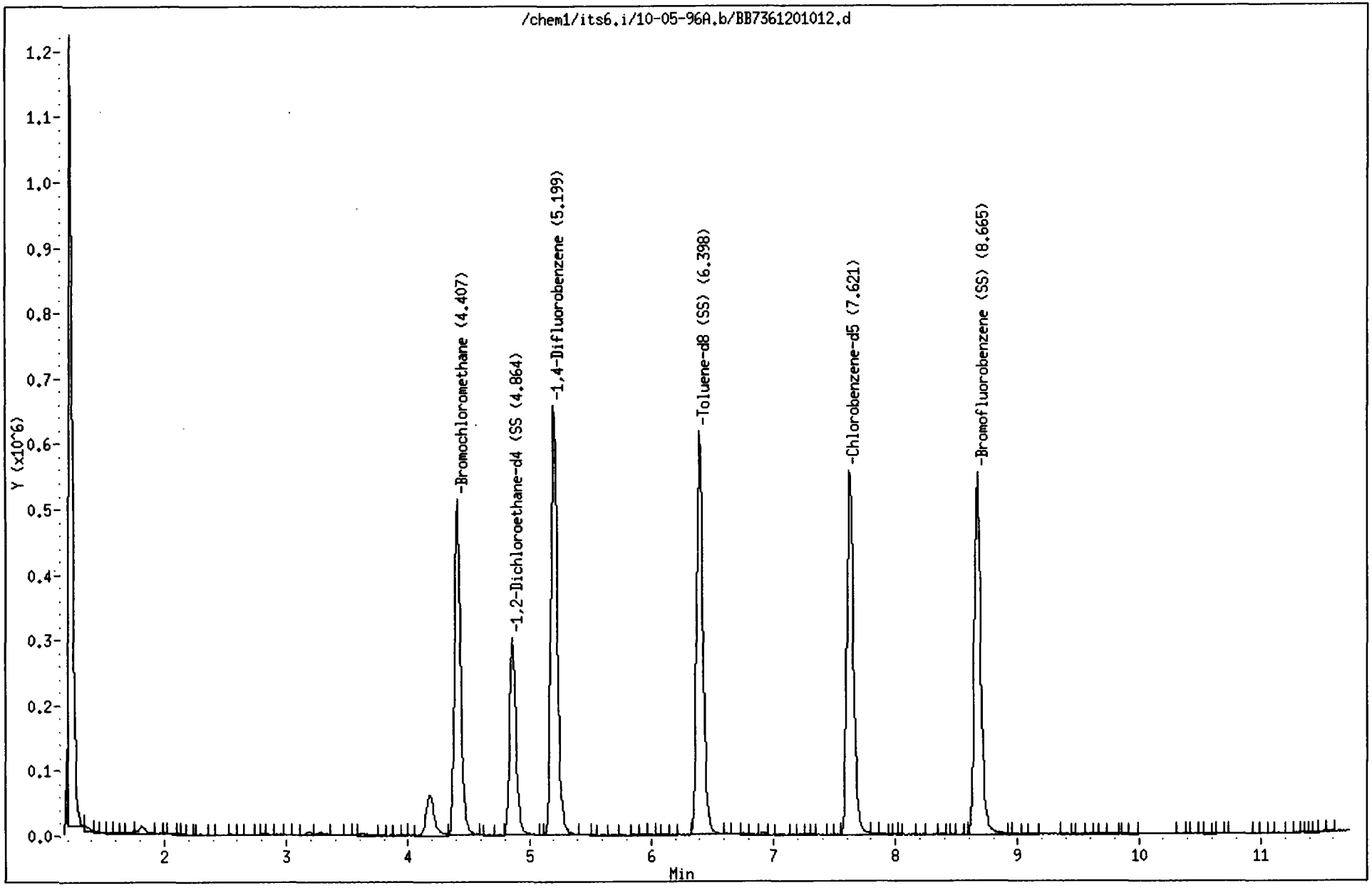
Data Fi[illegible]/chem1/its6.i/10-05-96A.b/BB7361201012.d
Date : 05-OCT-1996 17:52
Client ID: AT_KEARNEY 5ML <2
Sample Info: IL_8240_L;;ITS6-842;1;<2
Purge Volume: 5.0
Column phase: 2.00

Instrument: its6.i

Operator: MICHELLE
Column diameter: 0.53

Pa[illegible]

70



STANDARDS DATA

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10438

Instrument ID: ITS6 Calibration Date(s): 09/19/96 09/19/96

Heated Purge: (Y/N) Y Calibration Time(s): 1248 2035

GC Column: 2.00 ID: 0.53 (mm)

LAB FILE ID: RRF10 =BB7252501025 RRF20 =BB7252001020
RRF50 =BB7252101021 RRF100=BB7252201022 RRF200=BB7252301023

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD	
Chloromethane	*	0.598	0.613	0.579	0.659	0.615			*
Bromomethane		0.789	0.790	0.649	0.668	0.598			
Vinyl chloride			0.879	0.906	0.904	0.944			
Chloroethane		0.480	0.508	0.493	0.489	0.266			
Methylene chloride		1.032	1.100	1.047	1.075	1.074			
Acetone			0.231	0.203	0.197	0.178			
Carbon disulfide		2.603	2.929	2.743	2.870	2.835			
1,1-Dichloroethene	*	0.964	1.061	1.018	1.119	1.075			*
trans-1,2-Dichloroethene		1.135	1.209	1.155	1.242	1.218			
1,1-Dichloroethane	*	2.005	2.160	2.081	2.242	2.250			*
1,2-Dichloroethane		1.436	1.576	1.600	1.722	1.645			
Chloroform			2.732	2.687	2.901	2.832			
2-Butanone		0.019	0.023	0.024	0.017	0.023			
1,1,1-Trichloroethane		0.593	0.633	0.607	0.586	0.616			
Carbon tetrachloride		0.606	0.614	0.587	0.594	0.619			
Vinyl acetate		0.434	0.445	0.348	0.422	0.472			
Bromodichloromethane		0.595	0.616	0.610	0.603	0.611			
1,2-Dichloropropane		0.327	0.331	0.332	0.326	0.326			
cis-1,3-Dichloropropene		0.400	0.442	0.414	0.441	0.450			
Trichloroethene		0.376	0.373	0.417	0.348	0.362			
Benzene		0.696	0.738	0.698	0.680	0.695			
trans-1,3-Dichloropropene		0.400	0.410	0.419	0.441	0.446			
1,1,2-Trichloroethane		0.278	0.304	0.301	0.285	0.300			
2-Chloroethyl vinyl ether			0.326	0.324	0.321	0.320			
Chlorodibromomethane		0.445	0.505	0.507	0.508	0.538			
Bromoform	*		0.544	0.581	0.507	0.594			*
4-Methyl-2-pentanone		0.332	0.332	0.313	0.246	0.323			
1,1,2,2-Tetrachloroethane	*	0.608	0.601	0.496	0.495	0.569			*
Tetrachloroethene		0.561	0.511	0.556	0.493	0.526			
2-Hexanone			0.184	0.182	0.143	0.194			
Toluene		0.651	0.692	0.718	0.648	0.741			
Chlorobenzene	*	0.875	0.913	0.925	0.914	0.939			*
Ethylbenzene		0.290	0.335	0.324	0.332	0.363			
Styrene		0.536	0.646	0.697	0.678	0.733			
m,p-Xylene		0.340	0.402	0.413	0.420	0.415			
cis-1,2-Dichloroethene			1.307	1.298	1.423	1.369			
o-Xylene		0.336	0.384	0.384	0.370	0.415			

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10438

Instrument ID: ITS6 Calibration Date(s): 09/19/96 09/19/96

Heated Purge: (Y/N) Y Calibration Time(s): 1248 2035

GC Column: 2.00 ID: 0.53 (mm)

LAB FILE ID: RRF10 =BB7252501025 RRF20 =BB7252001020
RRF50 =BB7252101021 RRF100=BB7252201022 RRF200=BB7252301023

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
1,3-Dichlorobenzene	0.497	0.509	0.515	0.589	0.621		
1,4-Dichlorobenzene	0.603	0.728	0.615	0.648	0.681		
1,2-Dichlorobenzene	0.477	0.528	0.503	0.535	0.555		
Methyl-t-butyl ether							
Dichlorodifluoromethane	1.228	1.326	1.295	1.354	1.289		
Trichlorotrifluoroethane							
1,2-Dichloroethane-d4 (SS)		1.782	1.570	1.506	1.492		
Toluene-d8 (SS)		1.559	1.333	1.109	1.281		
Bromofluorobenzene (SS)		0.814	0.741	0.597	0.652		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10438

Instrument ID: ITS6 Calibration Date(s): 09/19/96 09/19/96

Heated Purge: (Y/N) Y Calibration Time(s): 1248 2035

GC Column: 2.00 ID: 0.53 (mm)

LAB FILE ID: RRF300=BB7252401024

COMPOUND	RRF300					$\overline{RRF}$	% RSD
Chloromethane	* 0.719					0.630	8.1*
Bromomethane	0.723					0.703	11.1
Vinyl chloride	1.119					0.950	10.2
Chloroethane	0.327					0.427	0.9
Methylene chloride	1.188					1.086	5.1
Acetone	0.176					0.197	11.3
Carbon disulfide	3.035					2.836	5.3
1,1-Dichloroethene	* 1.253					1.082	9.2*
trans-1,2-Dichloroethene	1.538					1.250	11.8
1,1-Dichloroethane	* 2.766					2.251	12.0*
1,2-Dichloroethane	2.033					1.669	12.1
Chloroform	3.564					2.943	12.1
2-Butanone	0.024					0.022	12.4
1,1,1-Trichloroethane	0.676					0.618	5.3
Carbon tetrachloride	0.690					0.618	6.0
Vinyl acetate	0.473					0.432	10.7
Bromodichloromethane	0.669					0.617	4.3
1,2-Dichloropropane	0.344					0.331	2.0
cis-1,3-Dichloropropene	0.476					0.437	6.1
Trichloroethene	0.406					0.380	6.9
Benzene	0.750					0.710	3.9
trans-1,3-Dichloropropene	0.476					0.432	6.4
1,1,2-Trichloroethane	0.309					0.296	4.1
2-Chloroethyl vinyl ether	0.337					0.326	2.1
Chlorodibromomethane	0.565					0.511	7.8
Bromoform	* 0.633					0.572	8.4*
4-Methyl-2-pentanone	0.344					0.315	11.2
1,1,2,2-Tetrachloroethane	* 0.581					0.558	9.1*
Tetrachloroethene	0.590					0.540	6.6
2-Hexanone	0.194					0.179	11.7
Toluene	0.814					0.711	8.8
Chlorobenzene	* 1.032					0.933	5.6*
Ethylbenzene	0.375					0.336	9.0
Styrene	0.785					0.679	12.5
m,p-Xylene	0.465					0.409	9.9
cis-1,2-Dichloroethene	1.725					1.424	12.3
o-Xylene	0.432					0.387	8.8

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10438

Instrument ID: ITS6 Calibration Date(s): 09/19/96 09/19/96

Heated Purge: (Y/N) Y Calibration Time(s): 1248 2035

GC Column: 2.00 ID: 0.53 (mm)

LAB FILE ID: RRF300=BB7252401024

COMPOUND	RRF300					$\overline{RRF}$	% RSD	
1,3-Dichlorobenzene	0.644					0.562	11.3	
1,4-Dichlorobenzene	0.782					0.676	10.2	
1,2-Dichlorobenzene	0.611					0.535	8.6	
Methyl-t-butyl ether								<-
Dichlorodifluoromethane	1.607					1.350	9.9	
Trichlorotrifluoroethane								<-
1,2-Dichloroethane-d4 (SS)	1.856					1.641	10.2	
Toluene-d8 (SS)	1.378					1.332	12.2	
Bromofluorobenzene (SS)	0.690					0.699	11.9	

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Inchcape Testing Services - Environmental Laboratories

INITIAL CALIBRATION DATA

Start Cal Date : 19-SEP-1996 12:48
End Cal Date : 19-SEP-1996 19:05
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem1/its6.i/09-19-96.b/8240_voa6.m
Cal Date : 23-Sep-1996 09:48 michelle

Calibration File Names:
Level 1: /chem1/its6.i/09-19-96.b/BB7252501025.d
Level 2: /chem1/its6.i/09-19-96.b/BB7252001020.d
Level 3: /chem1/its6.i/09-19-96.b/BB7252101021.d
Level 4: /chem1/its6.i/09-19-96.b/BB7252201022.d
Level 5: /chem1/its6.i/09-19-96.b/BB7252301023.d
Level 6: /chem1/its6.i/09-19-96.b/BB7252401024.d

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	300 Level 6	Curve	Coefficients a0	a1	a2	%RSD or R^2	
1 Dichlorodifluoromethane	1.22752	1.32624	1.29506	1.35402	1.28891	1.60724	AVRG		1.34983		9.85623	
2 Chloromethane	0.59771	0.61291	0.57884	0.65876	0.61493	0.71902	AVRG		0.63036		8.06750	
3 Vinyl chloride	+++++	0.87942	0.90653	0.90443	0.94399	1.11891	AVRG		0.95066		10.18655	
4 Bromomethane	0.78906	0.79039	0.64937	0.66809	0.59824	0.72305	AVRG		0.70303		11.11186	
5 Chloroethane	30273	54929	138372	219590	286754	450154	QUAD	-0.22073	2.92554	0.14294	0.93990	
6 1,1-Dichloroethene	0.96379	1.06082	1.01778	1.11927	1.07520	1.25322	AVRG		1.08168		9.17991	
7 Trichlorotrifluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.00000		0.00000	<-
8 Acetone	+++++	0.23071	0.20264	0.19670	0.17786	0.17624	AVRG		0.19683		11.26330	
9 Carbon disulfide	2.60274	2.92920	2.74277	2.87030	2.83487	3.03497	AVRG		2.83581		5.29079	

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Inchcape Testing Services - Environmental Laboratories

INITIAL CALIBRATION DATA

Start Cal Date : 19-SEP-1996 12:48
End Cal Date : 19-SEP-1996 19:05
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem1/its6.i/09-19-96.b/8240_voa6.m
Cal Date : 23-Sep-1996 09:48 michelle

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	300 Level 6	Curve	Coefficients a0	a1	a2	%RSD or R^2	
10 Methylene chloride	1.03179	1.09967	1.04668	1.07521	1.07401	1.18789	AVRG		1.08588		5.09656	
11 trans-1,2-Dichloroethene	1.13506	1.20877	1.15549	1.24165	1.21825	1.53798	AVRG		1.24953		11.75406	
12 Methyl-t-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.00000		0.00000	<-
13 1,1-Dichloroethane	2.00472	2.15974	2.08074	2.24187	2.24983	2.76648	AVRG		2.25056		11.98497	
14 Vinyl acetate	0.43407	0.44522	0.34820	0.42211	0.47241	0.47343	AVRG		0.43257		10.66764	
15 cis-1,2-Dichloroethene	+++++	1.30735	1.29784	1.42336	1.36867	1.72473	AVRG		1.42439		12.31220	
16 2-Butanone	0.01925	0.02293	0.02379	0.01736	0.02300	0.02367	AVRG		0.02167		12.43451	
18 Chloroform	+++++	2.73166	2.68663	2.90144	2.83197	3.56386	AVRG		2.94311		12.13136	
19 1,1,1-Trichloroethane	0.59339	0.63327	0.60725	0.58655	0.61648	0.67630	AVRG		0.61887		5.28076	
20 Carbon tetrachloride	0.60657	0.61389	0.58749	0.59383	0.61869	0.68970	AVRG		0.61836		5.96502	
22 Benzene	0.69617	0.73775	0.69829	0.68013	0.69527	0.74973	AVRG		0.70956		3.87747	
23 1,2-Dichloroethane	1.43611	1.57557	1.60023	1.72243	1.64484	2.03337	AVRG		1.66876		12.10133	
25 Trichloroethene	0.37554	0.37262	0.41692	0.34821	0.36258	0.40595	AVRG		0.38030		6.88145	
26 1,2-Dichloropropane	0.32682	0.33100	0.33168	0.32611	0.32585	0.34371	AVRG		0.33086		2.04871	
27 2-Chloroethyl vinyl ether	+++++	0.32613	0.32361	0.32090	0.32047	0.33681	AVRG		0.32558		2.05100	
28 Bromodichloromethane	0.59541	0.61606	0.60951	0.60289	0.61135	0.66934	AVRG		0.61743		4.28031	
29 cis-1,3-Dichloropropene	0.40034	0.44166	0.41456	0.44060	0.45032	0.47566	AVRG		0.43719		6.09776	

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Inchcape Testing Services - Environmental Laboratories

INITIAL CALIBRATION DATA

Start Cal Date : 19-SEP-1996 12:48
End Cal Date : 19-SEP-1996 19:05
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem1/its6.i/09-19-96.b/8240_voa6.m
Cal Date : 23-Sep-1996 09:48 michelle

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	300 Level 6	Curve	Coefficients a0	a1	a2	%RSD or R^2
30 4-Methyl-2-pentanone	0.33200	0.33197	0.31347	0.24601	0.32301	0.34439	AVRG		0.31514		11.23312
32 Toluene	0.65118	0.69246	0.71763	0.64825	0.74131	0.81390	AVRG		0.71079		8.76584
33 trans-1,3-Dichloropropene	0.40034	0.41026	0.41914	0.44096	0.44585	0.47568	AVRG		0.43204		6.39797
34 1,1,2-Trichloroethane	0.27801	0.30383	0.30088	0.28508	0.30049	0.30912	AVRG		0.29623		4.05154
35 Tetrachloroethene	0.56082	0.51103	0.55639	0.49318	0.52647	0.58973	AVRG		0.53960		6.62471
36 2-Hexanone	+++++	0.18413	0.18167	0.14344	0.19448	0.19386	AVRG		0.17952		11.67397
37 Chlorodibromomethane	0.44550	0.50526	0.50686	0.50759	0.53855	0.56520	AVRG		0.51149		7.84336
39 Chlorobenzene	0.87546	0.91322	0.92528	0.91409	0.93936	1.03164	AVRG		0.93318		5.64789
40 Ethylbenzene	0.29021	0.33541	0.32355	0.33184	0.36291	0.37537	AVRG		0.33655		8.95497
41 m,p-Xylene	0.33979	0.40184	0.41312	0.41958	0.41509	0.46502	AVRG		0.40910		9.86686
42 o-Xylene	0.33560	0.38363	0.38416	0.37060	0.41521	0.43191	AVRG		0.38685		8.76099
43 Styrene	0.53608	0.64594	0.69663	0.67841	0.73317	0.78495	AVRG		0.67920		12.49125
44 Bromoform	+++++	0.54438	0.58144	0.50707	0.59377	0.63299	AVRG		0.57193		8.41360
46 1,1,2,2-Tetrachloroethane	0.60814	0.60142	0.49615	0.49530	0.56914	0.58079	AVRG		0.55849		9.05891
47 1,3-Dichlorobenzene	0.49737	0.50870	0.51476	0.58867	0.62084	0.64383	AVRG		0.56236		11.27967
48 1,4-Dichlorobenzene	0.60280	0.72857	0.61517	0.64791	0.68087	0.78223	AVRG		0.67626		10.22765
49 1,2-Dichlorobenzene	0.47675	0.52804	0.50282	0.53522	0.55482	0.61111	AVRG		0.53479		8.63488

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Inchcape Testing Services - Environmental Laboratories

INITIAL CALIBRATION DATA

Start Cal Date : 19-SEP-1996 12:48
End Cal Date : 19-SEP-1996 19:05
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem1/its6.i/09-19-96.b/8240_voa6.m
Cal Date : 23-Sep-1996 09:48 michelle

Compound	10 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	300 Level 6	Curve	Coefficients a0	a1	a2	%RSD or R^2
$ 21 1,2-Dichloroethane-d4 (SS)	+++++	1.78257	1.56959	1.50645	1.49256	1.85629	AVRG		1.64100		10.17698
$ 31 Toluene-d8 (SS)	+++++	1.55932	1.33322	1.10902	1.28100	1.37838	AVRG		1.33200		12.22819
$ 45 Bromofluorobenzene (SS)	+++++	0.81399	0.74144	0.59750	0.65212	0.68988	AVRG		0.69900		11.88552

Curve	Formula	Units
Averaged	y = (1/a1) * x	RRF
Quad	y = a0 + (a1 * x) + (a2 * (x^2))	Response

Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/09-19-96.b/BB7252001020.d
Lab Smp Id: 20 PPB CAL STD
Client Smp ID: 8240 INITIAL CAL
Inj Date : 19-SEP-1996 19:05
Autotune Date: 06-Aug-96 17:28
Operator : SAP
Inst ID: its6.i
Smp Info : 20 PPB CAL STD
Misc Info : 8240 INITIAL CAL
Comment :
Method : /chem1/its6.i/09-19-96.b/8240_voa6.m
Meth Date : 09-Oct-1996 15:33 michelle
Quant Type: ISTD
Cal Date : 19-SEP-1996 19:05
Cal File: BB7252001020.d
Als bottle: 20
Calibration Sample, Level: 2
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: 8240.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	1 Dichlorodifluoromethane	85.00	1.277	1.269	(0.301)	143372	20.0	19.6
	2 Chloromethane	50.00	1.432	1.424	(0.337)	66258	20.0	19.4
	3 Vinyl chloride	62.00	1.530	1.522	(0.360)	95069	20.0	18.5
	4 Bromomethane	94.00	1.824	1.816	(0.429)	85444	20.0	22.5
	5 Chloroethane	64.00	1.913	1.905	(0.450)	54929	20.0	19.0
	6 1,1-Dichloroethene	96.00	2.599	2.599	(0.612)	114679	20.0	19.6
	9 Carbon disulfide	76.00	2.779	2.770	(0.654)	316658	20.0	20.6
	10 Methylene chloride	84.00	3.023	3.015	(0.712)	118879	20.0	20.2
	11 trans-1,2-Dichloroethene	96.00	3.244	3.235	(0.764)	130673	20.0	19.3
	13 1,1-Dichloroethane	63.00	3.587	3.578	(0.844)	233477	20.0	19.2
	14 Vinyl acetate	43.00	3.636	3.627	(0.720)	187555	20.0	20.6(a)
	15 cis-1,2-Dichloroethene	96.00	4.052	4.051	(0.954)	141330	20.0	18.4
*	17 Bromochloromethane	128.00	4.248	4.239	(1.000)	270260	50.0	
	18 Chloroform	83.00	4.305	4.305	(1.014)	295303	20.0	18.6
	19 1,1,1-Trichloroethane	97.00	4.452	4.443	(0.882)	266776	20.0	20.5
	20 Carbon tetrachloride	117.00	4.591	4.582	(0.909)	258610	20.0	19.8
$	21 1,2-Dichloroethane-d4 (SS)	65.00	4.705	4.697	(1.108)	192703	20.0	21.7
	22 Benzene	78.00	4.754	4.738	(0.942)	310787	20.0	20.8
	23 1,2-Dichloroethane	62.00	4.763	4.754	(1.121)	170325	20.0	18.9
*	24 1,4-Difluorobenzene	114.00	5.049	5.040	(1.000)	1053162	50.0	
	25 Trichloroethene	130.00	5.261	5.260	(1.042)	156971	20.0	19.6
	26 1,2-Dichloropropane	63.00	5.433	5.432	(1.076)	139440	20.0	20.0
	27 2-Chloroethyl vinyl ether	63.00	5.433	5.432	(1.076)	137385	20.0	20.0(H)
	28 Bromodichloromethane	83.00	5.661	5.652	(1.121)	259524	20.0	20.0
	29 cis-1,3-Dichloropropene	75.00	6.021	6.019	(1.193)	186057	20.0	20.2
$	31 Toluene-d8 (SS)	98.00	6.249	6.240	(0.835)	425986	20.0	23.4
	32 Toluene	92.00	6.307	6.297	(0.843)	189172	20.0	19.5
	33 trans-1,3-Dichloropropene	75.00	6.021	6.019	(1.193)	172826	20.0	19.0
	34 1,1,2-Trichloroethane	97.00	6.634	6.632	(1.314)	127993	20.0	20.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
35 Tetrachloroethene	164.00	6.781	6.763	(0.906)	139608	20.0	18.9
37 Chlorodibromomethane	129.00	6.985	6.983	(1.384)	212849	20.0	19.8
* 38 Chlorobenzene-d5	117.00	7.483	7.481	(1.000)	682967	50.0	
39 Chlorobenzene	112.00	7.508	7.505	(1.003)	249480	20.0	19.6
40 Ethylbenzene	106.00	7.589	7.587	(1.014)	91629	20.0	19.9
41 m,p-Xylene	106.00	7.696	7.685	(1.028)	219554	40.0	39.3
42 o-Xylene	106.00	8.055	8.044	(1.076)	104802	20.0	19.8
43 Styrene	104.00	8.063	8.061	(1.078)	176463	20.0	19.0
44 Bromoform	173.00	8.243	8.249	(1.102)	148717	20.0	19.0
$ 45 Bromofluorobenzene (SS)	95.00	8.529	8.526	(1.140)	222372	20.0	23.3
46 1,1,2,2-Tetrachloroethane	83.00	8.643	8.641	(1.155)	164300	20.0	21.5
47 1,3-Dichlorobenzene	146.00	9.541	9.538	(1.275)	138970	20.0	18.1
48 1,4-Dichlorobenzene	146.00	9.606	9.619	(1.284)	199035	20.0	21.5(M)
49 1,2-Dichlorobenzene	146.00	9.965	9.970	(1.332)	144253	20.0	19.7

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7252001020.d
Lab Smp Id: 20 PPB CAL STD
Analysis Type: VOA
Quant Type: ISTD
Operator: SAP
Method File: /chem1/its6.i/09-19-96.b/8240_voa6.m
Misc Info: 8240 INITIAL CAL

Calibration Date: 09/19/96
Calibration Time: 1917
Client Smp ID: 8240 INITIAL CA
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	280805	140402	561610	270260	-3.76
24 1,4-Difluorobenzene	1099413	549706	2198826	1053162	-4.21
38 Chlorobenzene-d5	684879	342440	1369758	682967	-0.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.25	3.75	4.75	4.25	-0.03
24 1,4-Difluorobenzene	5.05	4.55	5.55	5.05	-0.03
38 Chlorobenzene-d5	7.48	6.98	7.98	7.48	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/its6.i/09-19-96.b/BB7252001020.d
Date : 19-SEP-1996 19:05
Client ID: 8240 INITIAL CAL
Sample Info: 20 PPB CAL STD

Column phase: 2.00

Instrument: its6.i

Operator: SAP
Column diameter: 0.53

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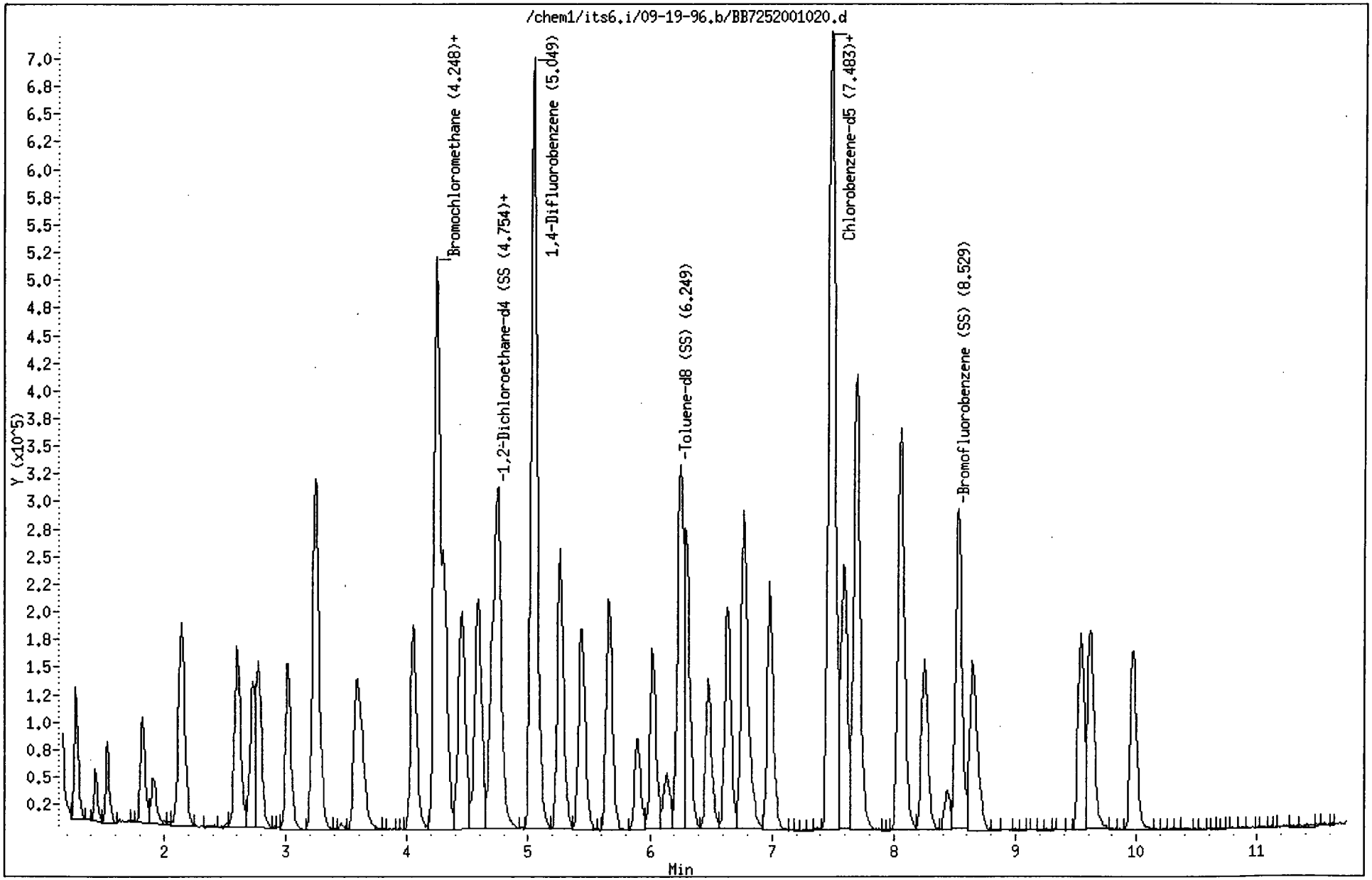


Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/09-19-96.b/BB7252101021.d
Lab Smp Id: 50 PPB CAL STD
Client Smp ID: 8240 INITIAL CAL
Inj Date : 19-SEP-1996 19:17
Autotune Date: 06-Aug-96 17:28
Operator : SAP
Inst ID: its6.i
Smp Info : 50 PPB CAL STD
Misc Info : 8240 INITIAL CAL
Comment :
Method : /chem1/its6.i/09-19-96.b/8240_voa6.m
Meth Date : 09-Oct-1996 15:33 michelle
Quant Type: ISTD
Cal Date : 19-SEP-1996 19:17
Cal File: BB7252101021.d
Als bottle: 21
Calibration Sample, Level: 3
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: 8240.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	1 Dichlorodifluoromethane	85.00	1.277	1.269	(0.301)	363660	50.0	48.0
	2 Chloromethane	50.00	1.440	1.424	(0.339)	162540	50.0	45.9
	3 Vinyl chloride	62.00	1.530	1.522	(0.360)	254558	50.0	47.7
	4 Bromomethane	94.00	1.824	1.816	(0.429)	182345	50.0	46.2
	5 Chloroethane	64.00	1.914	1.905	(0.450)	138372	50.0	62.8
	6 1,1-Dichloroethene	96.00	2.608	2.599	(0.614)	285798	50.0	47.0
	8 Acetone	43.00	2.665	2.656	(0.627)	56903	50.0	51.5(aM)
	9 Carbon disulfide	76.00	2.787	2.770	(0.656)	770184	50.0	48.4
	10 Methylene chloride	84.00	3.032	3.015	(0.714)	293913	50.0	48.2
	11 trans-1,2-Dichloroethene	96.00	3.253	3.235	(0.766)	324468	50.0	46.2
	13 1,1-Dichloroethane	63.00	3.588	3.578	(0.844)	584281	50.0	46.2
	14 Vinyl acetate	43.00	3.645	3.627	(0.722)	382818	50.0	40.2(a)
	15 cis-1,2-Dichloroethene	96.00	4.061	4.051	(0.956)	364439	50.0	45.6
	16 2-Butanone	72.00	4.069	4.076	(0.806)	26157	50.0	54.9(a)
*	17 Bromochloromethane	128.00	4.249	4.239	(1.000)	280805	50.0	
	18 Chloroform	83.00	4.315	4.305	(1.015)	754420	50.0	45.6
	19 1,1,1-Trichloroethane	97.00	4.454	4.443	(0.882)	667620	50.0	49.1
	20 Carbon tetrachloride	117.00	4.601	4.582	(0.911)	645897	50.0	47.5
$	21 1,2-Dichloroethane-d4 (SS)	65.00	4.707	4.697	(1.108)	440750	50.0	47.8
	22 Benzene	78.00	4.756	4.738	(0.942)	767713	50.0	49.2
	23 1,2-Dichloroethane	62.00	4.772	4.754	(1.123)	449352	50.0	47.9
*	24 1,4-Difluorobenzene	114.00	5.050	5.040	(1.000)	1099413	50.0	
	25 Trichloroethene	130.00	5.271	5.260	(1.044)	458369	50.0	54.8
	26 1,2-Dichloropropane	63.00	5.443	5.432	(1.078)	364652	50.0	50.1
	27 2-Chloroethyl vinyl ether	63.00	5.443	5.432	(1.078)	355781	50.0	49.7(H)
	28 Bromodichloromethane	83.00	5.663	5.652	(1.121)	670105	50.0	49.4
	29 cis-1,3-Dichloropropene	75.00	6.031	6.019	(1.194)	455773	50.0	47.4
	30 4-Methyl-2-pentanone	43.00	6.146	6.142	(0.822)	214688	50.0	49.7(a)
$	31 Toluene-d8 (SS)	98.00	6.252	6.240	(0.836)	913096	50.0	50.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
32 Toluene	92.00	6.309	6.297	(0.844)	491488	50.0	50.5
33 trans-1,3-Dichloropropene	75.00	6.031	6.019	(1.194)	460804	50.0	48.5(M)
34 1,1,2-Trichloroethane	97.00	6.637	6.632	(1.314)	330796	50.0	50.8
35 Tetrachloroethene	164.00	6.776	6.763	(0.906)	381062	50.0	51.6
36 2-Hexanone	43.00	6.833	6.828	(0.914)	124421	50.0	50.6
37 Chlorodibromomethane	129.00	6.980	6.983	(1.382)	557243	50.0	49.5
* 38 Chlorobenzene-d5	117.00	7.478	7.481	(1.000)	684879	50.0	
39 Chlorobenzene	112.00	7.511	7.505	(1.004)	633704	50.0	49.6
40 Ethylbenzene	106.00	7.593	7.587	(1.015)	221595	50.0	48.1
41 m,p-Xylene	106.00	7.700	7.685	(1.030)	565879	100	101
42 o-Xylene	106.00	8.051	8.044	(1.077)	263103	50.0	49.6
43 Styrene	104.00	8.059	8.061	(1.078)	477110	50.0	51.3
44 Bromoform	173.00	8.247	8.249	(1.103)	398214	50.0	50.8
$ 45 Bromofluorobenzene (SS)	95.00	8.534	8.526	(1.141)	507794	50.0	53.0
46 1,1,2,2-Tetrachloroethane	83.00	8.648	8.641	(1.156)	339801	50.0	44.4
47 1,3-Dichlorobenzene	146.00	9.538	9.538	(1.275)	352546	50.0	45.8
48 1,4-Dichlorobenzene	146.00	9.611	9.619	(1.285)	421317	50.0	45.5
49 1,2-Dichlorobenzene	146.00	9.971	9.970	(1.333)	344371	50.0	47.0

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7252101021.d
Lab Smp Id: 50 PPB CAL STD
Analysis Type: VOA
Quant Type: ISTD
Operator: SAP
Method File: /chem1/its6.i/09-19-96.b/8240_voa6.m
Misc Info: 8240 INITIAL CAL

Calibration Date: 09/19/96
Calibration Time: 1917
Client Smp ID: 8240 INITIAL CA
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	280805	140402	561610	280805	0.00
24 1,4-Difluorobenzene	1099413	549706	2198826	1099413	0.00
38 Chlorobenzene-d5	684879	342440	1369758	684879	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.25	3.75	4.75	4.25	0.00
24 1,4-Difluorobenzene	5.05	4.55	5.55	5.05	0.00
38 Chlorobenzene-d5	7.48	6.98	7.98	7.48	0.00

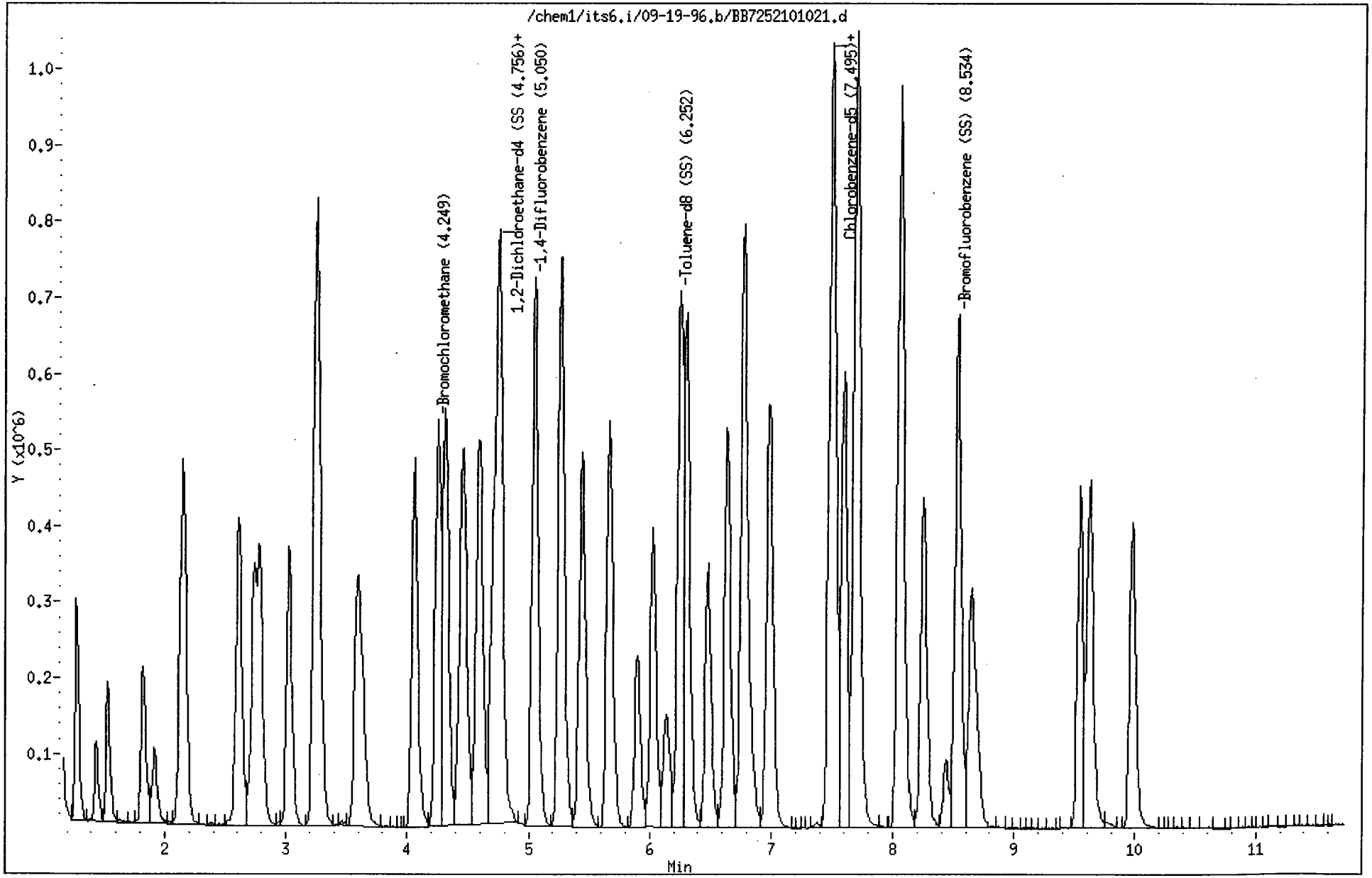
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/its6.i/09-19-96.b/BB7252101021.d
Date : 19-SEP-1996 19:17
Client ID: 8240 INITIAL CAL
Sample Info: 50 PPB CAL STD

Column phase: 2.00

Instrument: its6.i

Operator: SAP
Column diameter: 0.53



Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/09-19-96.b/BB7252201022.d
Lab Smp Id: 100 PPB CAL STD — Client Smp ID: 8240 INITIAL CAL
Inj Date : 19-SEP-1996 19:36 — Autotune Date: 06-Aug-96 17:28
Operator : SAP — Inst ID: its6.i
Smp Info : 100 PPB CAL STD
Misc Info : 8240 INITIAL CAL
Comment :
Method : /chem1/its6.i/09-19-96.b/8240_voa6.m
Meth Date : 09-Oct-1996 15:33 michelle — Quant Type: ISTD
Cal Date : 19-SEP-1996 19:36 — Cal File: BB7252201022.d
Als bottle: 22 — Calibration Sample, Level: 4
Dil Factor: 1.000
Integrator: HP RTE — Compound Sublist: 8240.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	1 Dichlorodifluoromethane	85.00	1.285	1.269	(0.302)	607921	100	100
	2 Chloromethane	50.00	1.440	1.424	(0.338)	295764	100	104
	3 Vinyl chloride	62.00	1.538	1.522	(0.361)	406065	100	95.1
	4 Bromomethane	94.00	1.824	1.816	(0.428)	299957	100	95.0
	5 Chloroethane	64.00	1.922	1.905	(0.451)	219590	100	139
	6 1,1-Dichloroethene	96.00	2.616	2.599	(0.614)	502523	100	103
	8 Acetone	43.00	2.674	2.656	(0.628)	88313	100	99.9(aM)
	9 Carbon disulfide	76.00	2.796	2.770	(0.657)	1288688	100	101
	10 Methylene chloride	84.00	3.033	3.015	(0.712)	482741	100	99.0
	11 trans-1,2-Dichloroethene	96.00	3.254	3.235	(0.764)	557470	100	99.4
	13 1,1-Dichloroethane	63.00	3.597	3.578	(0.845)	1006543	100	99.6
	14 Vinyl acetate	43.00	3.638	3.627	(0.720)	843494	100	97.6
	15 cis-1,2-Dichloroethene	96.00	4.063	4.051	(0.954)	639053	100	99.9
	16 2-Butanone	72.00	4.063	4.076	(0.804)	34696	100	80.1(a)
*	17 Bromochloromethane	128.00	4.259	4.239	(1.000)	224487	50.0	
	18 Chloroform	83.00	4.316	4.305	(1.013)	1302670	100	98.6
	19 1,1,1-Trichloroethane	97.00	4.463	4.443	(0.883)	1172094	100	94.8
	20 Carbon tetrachloride	117.00	4.603	4.582	(0.911)	1186639	100	96.0
$	21 1,2-Dichloroethane-d4 (SS)	65.00	4.709	4.697	(1.106)	676355	100	91.8
	22 Benzene	78.00	4.758	4.738	(0.942)	1359105	100	95.8
	23 1,2-Dichloroethane	62.00	4.766	4.754	(1.119)	773328	100	103
*	24 1,4-Difluorobenzene	114.00	5.053	5.040	(1.000)	999148	50.0	
	25 Trichloroethene	130.00	5.265	5.260	(1.042)	695820	100	91.6
	26 1,2-Dichloropropane	63.00	5.445	5.432	(1.078)	651661	100	98.6
	27 2-Chloroethyl vinyl ether	63.00	5.445	5.432	(1.078)	641254	100	98.6(H)
	28 Bromodichloromethane	83.00	5.674	5.652	(1.123)	1204753	100	97.6
	29 cis-1,3-Dichloropropene	75.00	6.026	6.019	(1.193)	880455	100	101
	30 4-Methyl-2-pentanone	43.00	6.141	6.142	(0.821)	323979	100	78.1
$	31 Toluene-d8 (SS)	98.00	6.255	6.240	(0.836)	1460486	100	83.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
32 Toluene	92.00	6.304	6.297	(0.843)	853695	100	91.2
33 trans-1,3-Dichloropropene	75.00	6.026	6.019	(1.193)	881178	100	102(M)
34 1,1,2-Trichloroethane	97.00	6.640	6.632	(1.314)	569667	100	96.2
35 Tetrachloroethene	164.00	6.779	6.763	(0.906)	649471	100	91.4
36 2-Hexanone	43.00	6.837	6.828	(0.914)	188905	100	79.9
37 Chlorodibromomethane	129.00	6.984	6.983	(1.382)	1014313	100	99.2
* 38 Chlorobenzene-d5	117.00	7.482	7.481	(1.000)	658458	50.0	
39 Chlorobenzene	112.00	7.507	7.505	(1.003)	1203775	100	98.0
40 Ethylbenzene	106.00	7.597	7.587	(1.015)	437000	100	98.6
41 m,p-Xylene	106.00	7.704	7.685	(1.030)	1105111	200	205
42 o-Xylene	106.00	8.047	8.044	(1.075)	488047	100	95.8
43 Styrene	104.00	8.064	8.061	(1.078)	893410	100	99.9
44 Bromoform	173.00	8.252	8.249	(1.103)	667766	100	88.6
$ 45 Bromofluorobenzene (SS)	95.00	8.530	8.526	(1.140)	786852	100	85.5
46 1,1,2,2-Tetrachloroethane	83.00	8.645	8.641	(1.155)	652266	100	88.7
47 1,3-Dichlorobenzene	146.00	9.535	9.538	(1.274)	775232	100	105
48 1,4-Dichlorobenzene	146.00	9.616	9.619	(1.285)	853247	100	95.8
49 1,2-Dichlorobenzene	146.00	9.976	9.970	(1.333)	704846	100	100

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7252201022.d
Lab Smp Id: 100 PPB CAL STD
Analysis Type: VOA
Quant Type: ISTD
Operator: SAP
Method File: /chem1/its6.i/09-19-96.b/8240_voa6.m
Misc Info: 8240 INITIAL CAL

Calibration Date: 09/19/96
Calibration Time: 1917
Client Smp ID: 8240 INITIAL CA
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	280805	140402	561610	224487	-20.06
24 1,4-Difluorobenzene	1099413	549706	2198826	999148	-9.12
38 Chlorobenzene-d5	684879	342440	1369758	658458	-3.86

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.25	3.75	4.75	4.26	0.23
24 1,4-Difluorobenzene	5.05	4.55	5.55	5.05	0.05
38 Chlorobenzene-d5	7.48	6.98	7.98	7.48	0.06

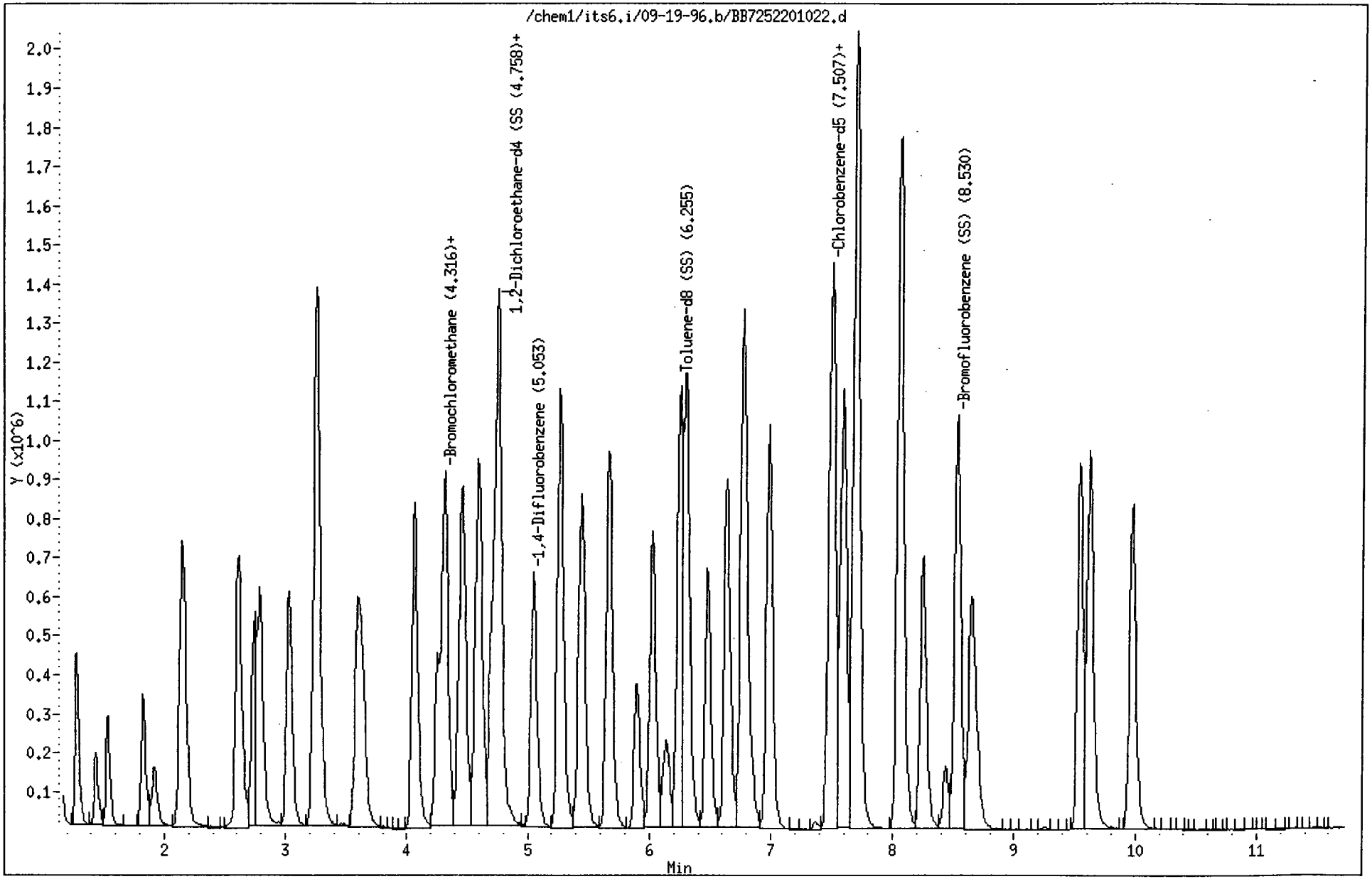
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/its6.i/09-19-96.b/BB7252201022.d
Date : 19-SEP-1996 19:36
Client ID: 8240 INITIAL CAL
Sample Info: 100 PPB CAL STD

Column phase: 2.00

Instrument: its6.i

Operator: SAP
Column diameter: 0.53



Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/09-19-96.b/BB7252301023.d
Lab Smp Id: 200 PPB CAL STD Client Smp ID: 8240 INITIAL CAL
Inj Date : 19-SEP-1996 19:56 Autotune Date: 06-Aug-96 17:28
Operator : SAP Inst ID: its6.i
Smp Info : 200 PPB CAL STD
Misc Info : 8240 INITIAL CAL
Comment :
Method : /chem1/its6.i/09-19-96.b/8240_voa6.m
Meth Date : 09-Oct-1996 15:33 michelle Quant Type: ISTD
Cal Date : 19-SEP-1996 19:56 Cal File: BB7252301023.d
Als bottle: 23 Calibration Sample, Level: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: 8240.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	1 Dichlorodifluoromethane	85.00	1.277	1.269	(0.300)	1388461	200	191
	2 Chloromethane	50.00	1.433	1.424	(0.337)	662420	200	195
	3 Vinyl chloride	62.00	1.531	1.522	(0.360)	1016901	200	198
	4 Bromomethane	94.00	1.816	1.816	(0.427)	644450	200	170
	5 Chloroethane	64.00	1.906	1.905	(0.448)	286754	200	153
	6 1,1-Dichloroethene	96.00	2.601	2.599	(0.612)	1158244	200	199
	8 Acetone	43.00	2.683	2.656	(0.631)	191594	200	181(M)
	9 Carbon disulfide	76.00	2.781	2.770	(0.654)	3053829	200	200
	10 Methylene chloride	84.00	3.026	3.015	(0.712)	1156967	200	198
	11 trans-1,2-Dichloroethene	96.00	3.255	3.235	(0.765)	1312340	200	195
	13 1,1-Dichloroethane	63.00	3.591	3.578	(0.844)	2423601	200	200
	14 Vinyl acetate	43.00	3.640	3.627	(0.720)	2150391	200	218
	15 cis-1,2-Dichloroethene	96.00	4.065	4.051	(0.956)	1474377	200	192
	16 2-Butanone	72.00	4.073	4.076	(0.806)	104709	200	212
*	17 Bromochloromethane	128.00	4.253	4.239	(1.000)	269309	50.0	(M)
	18 Chloroform	83.00	4.310	4.305	(1.014)	3050704	200	192
	19 1,1,1-Trichloroethane	97.00	4.466	4.443	(0.883)	2806148	200	199
	20 Carbon tetrachloride	117.00	4.597	4.582	(0.909)	2816249	200	200
$	21 1,2-Dichloroethane-d4 (SS)	65.00	4.712	4.697	(1.108)	1607840	200	182
	22 Benzene	78.00	4.753	4.738	(0.940)	3164816	200	196
	23 1,2-Dichloroethane	62.00	4.769	4.754	(1.121)	1771876	200	197
*	24 1,4-Difluorobenzene	114.00	5.056	5.040	(1.000)	1137980	50.0	(M)
	25 Trichloroethene	130.00	5.268	5.260	(1.042)	1650444	200	191
	26 1,2-Dichloropropane	63.00	5.441	5.432	(1.076)	1483240	200	197
	27 2-Chloroethyl vinyl ether	63.00	5.441	5.432	(1.076)	1458751	200	197(H)
	28 Bromodichloromethane	83.00	5.670	5.652	(1.121)	2782815	200	198
	29 cis-1,3-Dichloropropene	75.00	6.030	6.019	(1.193)	2049803	200	206
	30 4-Methyl-2-pentanone	43.00	6.145	6.142	(0.821)	901672	200	205
$	31 Toluene-d8 (SS)	98.00	6.251	6.240	(0.835)	3575811	200	192

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
32 Toluene	92.00	6.309	6.297	(0.842)	2069310	200	208
33 trans-1,3-Dichloropropene	75.00	6.030	6.019	(1.193)	2029468	200	206(M)
34 1,1,2-Trichloroethane	97.00	6.637	6.632	(1.313)	1367784	200	203
35 Tetrachloroethene	164.00	6.776	6.763	(0.905)	1469596	200	195
36 2-Hexanone	43.00	6.834	6.828	(0.913)	542868	200	217
37 Chlorodibromomethane	129.00	6.990	6.983	(1.383)	2451428	200	210
* 38 Chlorobenzene-d5	117.00	7.489	7.481	(1.000)	697858	50.0	(M)
39 Chlorobenzene	112.00	7.513	7.505	(1.003)	2622158	200	201
40 Ethylbenzene	106.00	7.595	7.587	(1.014)	1013031	200	216
41 m,p-Xylene	106.00	7.702	7.685	(1.029)	2317416	400	406
42 o-Xylene	106.00	8.054	8.044	(1.075)	1159017	200	215
43 Styrene	104.00	8.070	8.061	(1.078)	2046584	200	216
44 Bromoform	173.00	8.251	8.249	(1.102)	1657461	200	208
$ 45 Bromofluorobenzene (SS)	95.00	8.529	8.526	(1.139)	1820359	200	186
46 1,1,2,2-Tetrachloroethane	83.00	8.644	8.641	(1.154)	1588725	200	204
47 1,3-Dichlorobenzene	146.00	9.543	9.538	(1.274)	1733045	200	221
48 1,4-Dichlorobenzene	146.00	9.617	9.619	(1.284)	1900592	200	201
49 1,2-Dichlorobenzene	146.00	9.977	9.970	(1.332)	1548736	200	207

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7252301023.d
Lab Smp Id: 200 PPB CAL STD
Analysis Type: VOA
Quant Type: ISTD
Operator: SAP
Method File: /chem1/its6.i/09-19-96.b/8240_voa6.m
Misc Info: 8240 INITIAL CAL

Calibration Date: 09/19/96
Calibration Time: 1917
Client Smp ID: 8240 INITIAL CA
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	280805	140402	561610	269309	-4.09
24 1,4-Difluorobenzene	1099413	549706	2198826	1137980	3.51
38 Chlorobenzene-d5	684879	342440	1369758	697858	1.90

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.25	3.75	4.75	4.25	0.09
24 1,4-Difluorobenzene	5.05	4.55	5.55	5.06	0.11
38 Chlorobenzene-d5	7.48	6.98	7.98	7.49	0.14

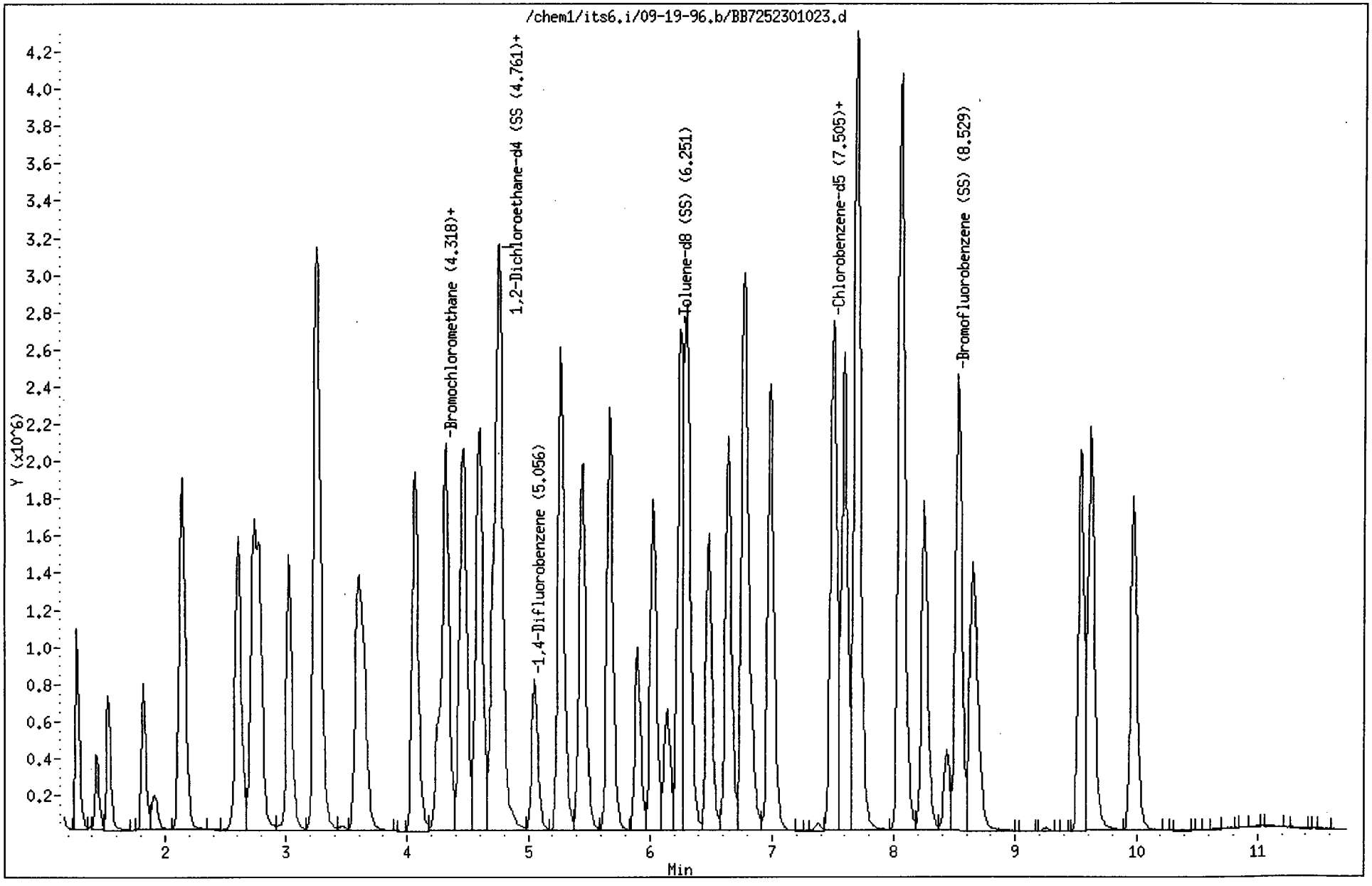
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/its6.i/09-19-96.b/BB7252301023.d
Date : 19-SEP-1996 19:56
Client ID: 8240 INITIAL CAL
Sample Info: 200 PPB CAL STD

Column phase: 2.00

Instrument: its6.i

Operator: SAP
Column diameter: 0.53



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Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/09-19-96.b/BB7252401024.d
Lab Smp Id: 300 PPB CAL STD Client Smp ID: 8240 INITIAL CAL
Inj Date : 19-SEP-1996 20:15 Autotune Date: 06-Aug-96 17:28
Operator : SAP Inst ID: its6.i
Smp Info : 300 PPB CAL STD
Misc Info : 8240 INITIAL CAL
Comment :
Method : /chem1/its6.i/09-19-96.b/8240_voa6.m
Meth Date : 09-Oct-1996 15:33 michelle Quant Type: ISTD
Cal Date : 19-SEP-1996 20:15 Cal File: BB7252401024.d
Als bottle: 24 Calibration Sample, Level: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: 8240.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	1 Dichlorodifluoromethane	85.00	1.277	1.269	(0.300)	2212674	300	357
	2 Chloromethane	50.00	1.441	1.424	(0.338)	989876	300	342
	3 Vinyl chloride	62.00	1.530	1.522	(0.359)	1540392	300	353
	4 Bromomethane	94.00	1.824	1.816	(0.428)	995423	300	308
	5 Chloroethane	64.00	1.906	1.905	(0.447)	450154	300	303(M)
	6 1,1-Dichloroethene	96.00	2.610	2.599	(0.612)	1725307	300	348
	8 Acetone	43.00	2.692	2.656	(0.632)	242623	300	269
	9 Carbon disulfide	76.00	2.790	2.770	(0.655)	4178225	300	321
	10 Methylene chloride	84.00	3.043	3.015	(0.714)	1635362	300	328
	11 trans-1,2-Dichloroethene	96.00	3.256	3.235	(0.764)	2117334	300	369
	13 1,1-Dichloroethane	63.00	3.592	3.578	(0.843)	3808592	300	369
	14 Vinyl acetate	43.00	3.649	3.627	(0.722)	3173170	300	328
	15 cis-1,2-Dichloroethene	96.00	4.066	4.051	(0.954)	2374425	300	363
	16 2-Butanone	72.00	4.082	4.076	(0.807)	158663	300	328
*	17 Bromochloromethane	128.00	4.262	4.239	(1.000)	229449	50.0	
	18 Chloroform	83.00	4.319	4.305	(1.013)	4906342	300	363
	19 1,1,1-Trichloroethane	97.00	4.467	4.443	(0.883)	4532855	300	328
	20 Carbon tetrachloride	117.00	4.590	4.582	(0.908)	4622656	300	335
$	21 1,2-Dichloroethane-d4 (SS)	65.00	4.713	4.697	(1.106)	2555543	300	339
	22 Benzene	78.00	4.754	4.738	(0.940)	5025053	300	317
	23 1,2-Dichloroethane	62.00	4.770	4.754	(1.119)	2799329	300	366
*	24 1,4-Difluorobenzene	114.00	5.057	5.040	(1.000)	1117077	50.0	
	25 Trichloroethene	130.00	5.270	5.260	(1.042)	2720834	300	320
	26 1,2-Dichloropropane	63.00	5.450	5.432	(1.078)	2303682	300	312
	27 2-Chloroethyl vinyl ether	63.00	5.450	5.432	(1.078)	2257474	300	310(H)
	28 Bromodichloromethane	83.00	5.671	5.652	(1.121)	4486197	300	325
	29 cis-1,3-Dichloropropene	75.00	6.032	6.019	(1.193)	3188071	300	326
	30 4-Methyl-2-pentanone	43.00	6.147	6.142	(0.821)	1369415	300	328
$	31 Toluene-d8 (SS)	98.00	6.253	6.240	(0.835)	5480982	300	310

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
32 Toluene	92.00	6.311	6.297	(0.842)	3236409	300	344
33 trans-1,3-Dichloropropene	75.00	6.032	6.019	(1.193)	3188205	300	330(M)
34 1,1,2-Trichloroethane	97.00	6.647	6.632	(1.314)	2071898	300	313
35 Tetrachloroethene	164.00	6.787	6.763	(0.906)	2345020	300	328
36 2-Hexanone	43.00	6.837	6.828	(0.913)	770884	300	324
37 Chlorodibromomethane	129.00	6.984	6.983	(1.381)	3788238	300	332
* 38 Chlorobenzene-d5	117.00	7.491	7.481	(1.000)	662734	50.0	
39 Chlorobenzene	112.00	7.516	7.505	(1.003)	4102217	300	332
40 Ethylbenzene	106.00	7.598	7.587	(1.014)	1492605	300	335
41 m,p-Xylene	106.00	7.697	7.685	(1.027)	3698197	600	682
42 o-Xylene	106.00	8.049	8.044	(1.074)	1717468	300	335
43 Styrene	104.00	8.065	8.061	(1.077)	3121298	300	347
44 Bromoform	173.00	8.254	8.249	(1.102)	2517034	300	332
$ 45 Bromofluorobenzene (SS)	95.00	8.533	8.526	(1.139)	2743224	300	296
46 1,1,2,2-Tetrachloroethane	83.00	8.648	8.641	(1.154)	2309441	300	312
47 1,3-Dichlorobenzene	146.00	9.539	9.538	(1.273)	2560124	300	343
48 1,4-Dichlorobenzene	146.00	9.621	9.619	(1.284)	3110456	300	347
49 1,2-Dichlorobenzene	146.00	9.973	9.970	(1.331)	2430018	300	343

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7252401024.d
Lab Smp Id: 300 PPB CAL STD
Analysis Type: VOA
Quant Type: ISTD
Operator: SAP
Method File: /chem1/its6.i/09-19-96.b/8240_voa6.m
Misc Info: 8240 INITIAL CAL

Calibration Date: 09/19/96
Calibration Time: 1917
Client Smp ID: 8240 INITIAL CA
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	280805	140402	561610	229449	-18.29
24 1,4-Difluorobenzene	1099413	549706	2198826	1117077	1.61
38 Chlorobenzene-d5	684879	342440	1369758	662734	-3.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.25	3.75	4.75	4.26	0.30
24 1,4-Difluorobenzene	5.05	4.55	5.55	5.06	0.13
38 Chlorobenzene-d5	7.48	6.98	7.98	7.49	0.18

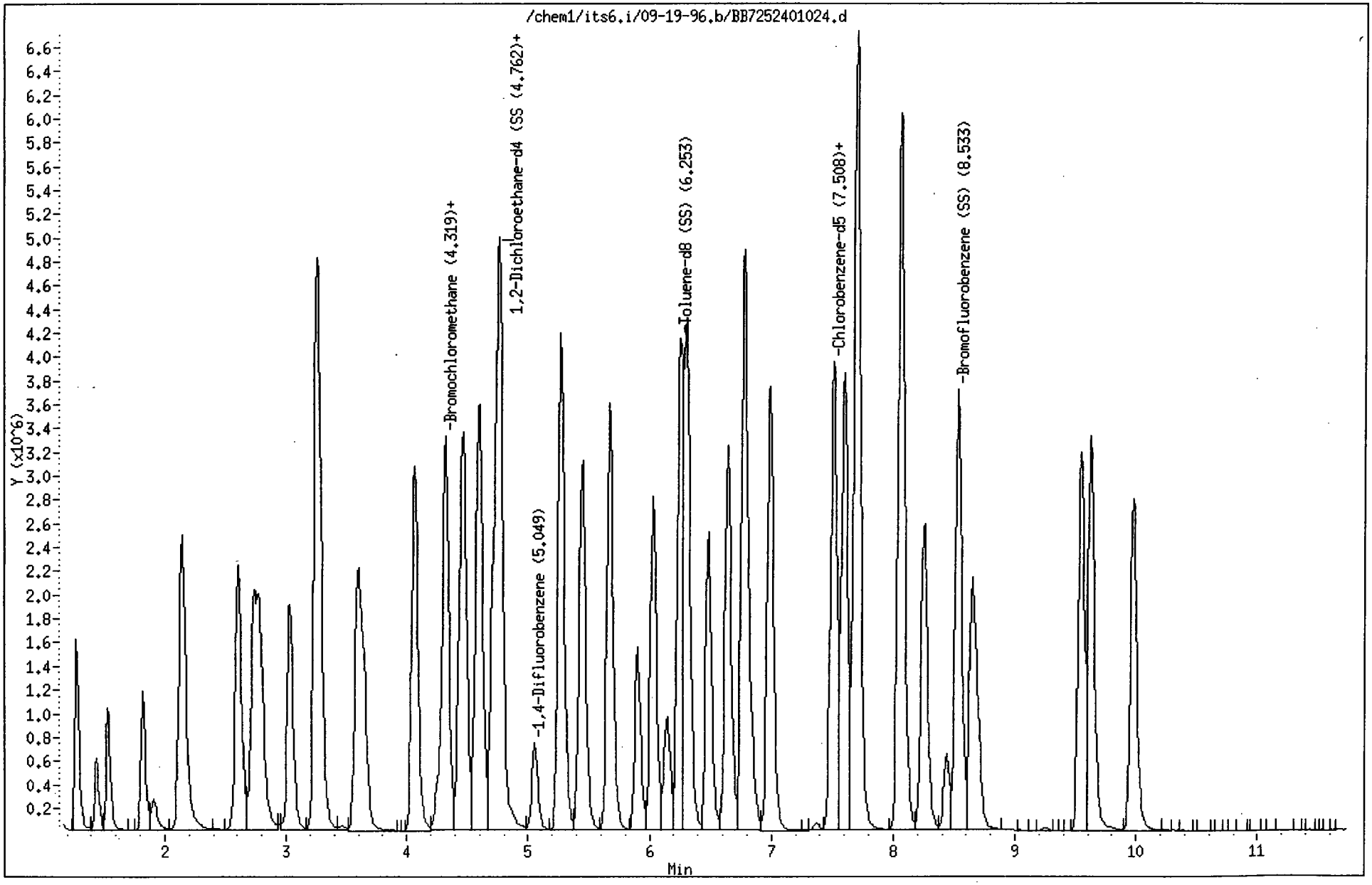
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/its6.i/09-19-96.b/BB7252401024.d
Date : 19-SEP-1996 20:15
Client ID: 8240 INITIAL CAL
Sample Info: 300 PPB CAL STD

Column phase: 2.00

Instrument: its6.i

Operator: SAP
Column diameter: 0.53



Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/09-19-96.b/BB7252501025.d
Lab Smp Id: 10 PPB CAL STD Client Smp ID: 8240 INITIAL CAL
Inj Date : 19-SEP-1996 20:35 Autotune Date: 06-Aug-96 17:28
Operator : SAP Inst ID: its6.i
Smp Info : 10 PPB CAL STD
Misc Info : 8240 INITIAL CAL
Comment :
Method : /chem1/its6.i/09-19-96.b/8240_voa6.m
Meth Date : 09-Oct-1996 15:33 michelle Quant Type: ISTD
Cal Date : 19-SEP-1996 20:35 Cal File: BB7252501025.d
Als bottle: 25 Calibration Sample, Level: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: 8240.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	1 Dichlorodifluoromethane	85.00	1.269	1.269	(0.299)	77406	10.0	9.09
	2 Chloromethane	50.00	1.424	1.424	(0.336)	37691	10.0	9.48(a)
	3 Vinyl chloride	62.00	1.522	1.522	(0.359)	50977	10.0	8.50(a)
	4 Bromomethane	94.00	1.816	1.816	(0.428)	49757	10.0	11.2
	5 Chloroethane	64.00	1.905	1.905	(0.449)	30273	10.0	3.07(a)
	6 1,1-Dichloroethene	96.00	2.599	2.599	(0.613)	60775	10.0	8.91
	9 Carbon disulfide	76.00	2.770	2.770	(0.654)	164125	10.0	9.18
	10 Methylene chloride	84.00	3.015	3.015	(0.711)	65063	10.0	9.50
	11 trans-1,2-Dichloroethene	96.00	3.235	3.235	(0.763)	71575	10.0	9.08
	13 1,1-Dichloroethane	63.00	3.578	3.578	(0.844)	126415	10.0	8.91
	14 Vinyl acetate	43.00	3.627	3.627	(0.720)	100905	10.0	10.0(a)
	15 cis-1,2-Dichloroethene	96.00	4.051	4.051	(0.956)	75805	10.0	8.44
*	17 Bromochloromethane	128.00	4.239	4.239	(1.000)	315293	50.0	
	18 Chloroform	83.00	4.305	4.305	(1.015)	161447	10.0	8.70
	19 1,1,1-Trichloroethane	97.00	4.443	4.443	(0.882)	137939	10.0	9.59(M)
	20 Carbon tetrachloride	117.00	4.582	4.582	(0.909)	141003	10.0	9.81
$	21 1,2-Dichloroethane-d4 (SS)	65.00	4.697	4.697	(1.108)	61813	10.0	5.97
	22 Benzene	78.00	4.738	4.738	(0.940)	161832	10.0	9.81
	23 1,2-Dichloroethane	62.00	4.754	4.754	(1.121)	90559	10.0	8.60
*	24 1,4-Difluorobenzene	114.00	5.040	5.040	(1.000)	1162304	50.0	
	25 Trichloroethene	130.00	5.260	5.260	(1.044)	87298	10.0	9.87
	26 1,2-Dichloropropane	63.00	5.432	5.432	(1.078)	75973	10.0	9.88
	27 2-Chloroethyl vinyl ether	63.00	5.432	5.432	(1.078)	74545	10.0	9.85(aH)
	28 Bromodichloromethane	83.00	5.652	5.652	(1.121)	138409	10.0	9.64
	29 cis-1,3-Dichloropropene	75.00	6.019	6.019	(1.194)	93064	10.0	9.16
$	31 Toluene-d8 (SS)	98.00	6.240	6.240	(0.834)	118743	10.0	6.46
	32 Toluene	92.00	6.297	6.297	(0.842)	89850	10.0	9.16
	33 trans-1,3-Dichloropropene	75.00	6.019	6.019	(1.194)	93064	10.0	9.27
	34 1,1,2-Trichloroethane	97.00	6.632	6.632	(1.316)	64626	10.0	9.38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
35 Tetrachloroethene	164.00	6.763	6.763	(0.904)	77382	10.0	10.4
37 Chlorodibromomethane	129.00	6.983	6.983	(1.386)	103561	10.0	8.71
* 38 Chlorobenzene-d5	117.00	7.481	7.481	(1.000)	689902	50.0	
39 Chlorobenzene	112.00	7.505	7.505	(1.003)	120797	10.0	9.38
40 Ethylbenzene	106.00	7.587	7.587	(1.014)	40043	10.0	8.62
41 m,p-Xylene	106.00	7.685	7.685	(1.027)	93768	20.0	16.6
42 o-Xylene	106.00	8.044	8.044	(1.075)	46306	10.0	8.68
43 Styrene	104.00	8.061	8.061	(1.078)	73969	10.0	7.89
44 Bromoform	173.00	8.249	8.249	(1.103)	77133	10.0	9.77
$ 45 Bromofluorobenzene (SS)	95.00	8.526	8.526	(1.140)	53455	10.0	5.54
46 1,1,2,2-Tetrachloroethane	83.00	8.641	8.641	(1.155)	83911	10.0	10.9
47 1,3-Dichlorobenzene	146.00	9.538	9.538	(1.275)	68628	10.0	8.84
48 1,4-Dichlorobenzene	146.00	9.619	9.619	(1.286)	83174	10.0	8.91
49 1,2-Dichlorobenzene	146.00	9.970	9.970	(1.333)	65782	10.0	8.91

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7252501025.d
Lab Smp Id: 10 PPB CAL STD
Analysis Type: VOA
Quant Type: ISTD
Operator: SAP
Method File: /chem1/its6.i/09-19-96.b/8240_voa6.m
Misc Info: 8240 INITIAL CAL

Calibration Date: 09/19/96
Calibration Time: 1917
Client Smp ID: 8240 INITIAL CA
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	280805	140402	561610	315293	12.28
24 1,4-Difluorobenzene	1099413	549706	2198826	1162304	5.72
38 Chlorobenzene-d5	684879	342440	1369758	689902	0.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.25	3.75	4.75	4.24	-0.23
24 1,4-Difluorobenzene	5.05	4.55	5.55	5.04	-0.21
38 Chlorobenzene-d5	7.48	6.98	7.98	7.48	0.03

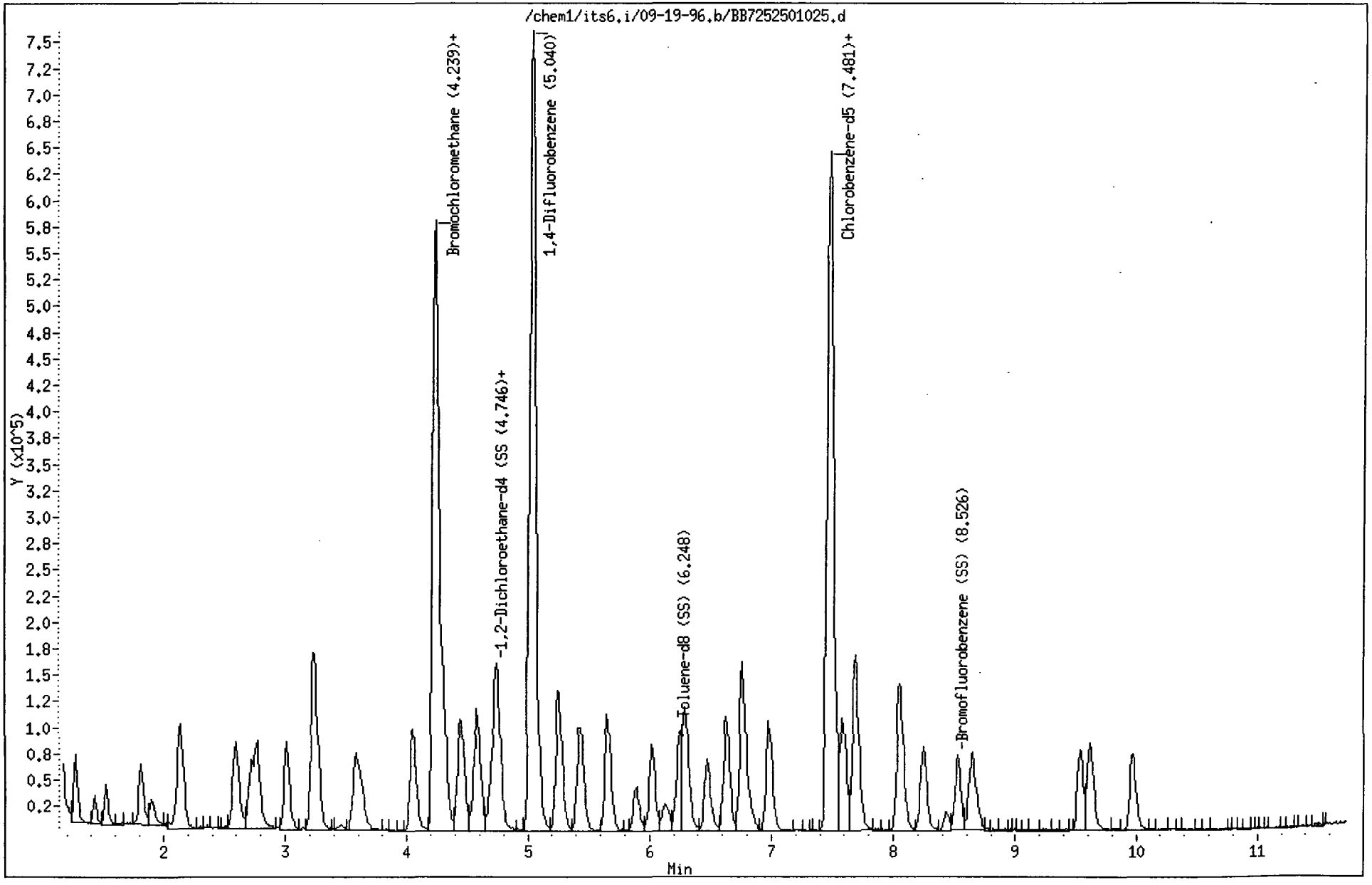
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/its6.i/09-19-96.b/BB7252501025.d
Date : 19-SEP-1996 20:35
Client ID: 8240 INITIAL CAL
Sample Info: 10 PPB CAL STD

Instrument: its6.i

Operator: SAP
Column diameter: 0.53

Column phase: 2.00



FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Instrument ID: ITS6 Calibration Date: 10/05/96 Time: 1441

Lab File ID: BB7360201002 Init. Calib. Date(s): 09/19/96 09/19/96

Heated Purge: (Y/N) N Init. Calib. Times: 1936 1917

GC Column: 2.00 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Chloromethane	0.630	0.398	0.300	36.8	20.0	<-
Bromomethane	0.703	0.755		7.4		
Vinyl chloride	0.950	0.768		19.2		
Chloroethane	0.427	0.469		9.8		
Methylene chloride	1.086	1.115		2.7		
Acetone	0.197	0.168		14.7		
Carbon disulfide	2.836	2.416		14.8		
1,1-Dichloroethene	1.082	0.903	0.300	16.5	20.0	
trans-1,2-Dichloroethene	1.250	1.079		13.7		
1,1-Dichloroethane	2.251	2.078	0.300	7.7	20.0	
1,2-Dichloroethane	1.669	0.145		91.3		<-
Chloroform	2.943	2.614		11.2		
2-Butanone	0.022	0.018		18.2		
1,1,1-Trichloroethane	0.618	0.583		5.7		
Carbon tetrachloride	0.618	0.070		88.7		<-
Vinyl acetate	0.432	0.238		44.9		<-
Bromodichloromethane	0.617	0.614		0.5		
1,2-Dichloropropane	0.331	0.340		2.7		
cis-1,3-Dichloropropene	0.437	0.421		3.7		
Trichloroethene	0.380	0.440		15.8		
Benzene	0.710	0.717		1.0		
trans-1,3-Dichloropropene	0.432	0.421		2.5		
1,1,2-Trichloroethane	0.296	0.276		6.8		
2-Chloroethyl vinyl ether	0.326	0.340		4.3		
Chlorodibromomethane	0.511	0.506		1.0		
Bromoform	0.572	0.518	0.100	9.4	20.0	
4-Methyl-2-pentanone	0.315	0.201		36.2		<-
1,1,2,2-Tetrachloroethane	0.558	0.329	0.300	41.0	20.0	<-
Tetrachloroethene	0.540	0.521		3.5		
2-Hexanone	0.179	0.073		59.2		<-
Toluene	0.711	0.675		5.1		
Chlorobenzene	0.933	0.877	0.300	6.0	20.0	
Ethylbenzene	0.336	0.289		14.0		
Styrene	0.679	0.553		18.6		
m,p-Xylene	0.409	0.337		17.6		
cis-1,2-Dichloroethene	1.424	1.182		17.0		
o-Xylene	0.387	0.314		18.9		

All other compounds must meet a minimum RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Instrument ID: ITS6 Calibration Date: 10/05/96 Time: 1441

Lab File ID: BB7360201002 Init. Calib. Date(s): 09/19/96 09/19/96

Heated Purge: (Y/N) N Init. Calib. Times: 1936 1917

GC Column: 2.00 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
1,3-Dichlorobenzene	0.562	0.479		14.8		
1,4-Dichlorobenzene	0.676	0.557		17.6		
1,2-Dichlorobenzene	0.535	0.433		19.1		
Dichlorodifluoromethane	1.350	0.551		59.2		<-
Trichlorotrifluoroethane						<-
1,2-Dichloroethane-d4 (SS)	1.531	1.470		4.0		
Toluene-d8 (SS)	1.253	1.321		5.4		
Bromofluorobenzene (SS)	0.647	0.577		10.8		

All other compounds must meet a minimum RRF of 0.010.

Inchcape Testing Services - Environmental Laboratories

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: its6.i Injection Date: 05-OCT-1996 14:41
Lab File ID: BB7360201002.d Init. Calibration Date(s): 09/19/96 09/19/96
Analysis Type: WATER Init. Calibration Times: 12:48 19:05
Lab Sample ID: 8240 DAILY STD Method File: /chem1/its6.i/10-05-96A.b/8240_vo
Quant Type: ISTD

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Dichlorodifluoromethane	1.350	0.551	0.010	59.2	20.0	<-
	2 Chloromethane	0.630	0.398	0.300	36.8	20.0	<-
	3 Vinyl chloride	0.951	0.768	0.010	19.2	20.0	
	4 Bromomethane	0.703	0.755	0.010	7.4	20.0	
	5 Chloroethane	2.926	0.469	0.010	N/A	N/A	
	6 1,1-Dichloroethene	1.082	0.903	0.300	16.5	20.0	
	7 Trichlorotrifluoroethane	++++	++++	0.010	++++	20.0	<-
	8 Acetone	0.197	0.168	0.010	14.5	20.0	
	9 Carbon disulfide	2.836	2.416	0.010	14.8	20.0	
	10 Methylene chloride	1.086	1.115	0.010	2.7	20.0	
	11 trans-1,2-Dichloroethene	1.250	1.079	0.010	13.7	20.0	
	13 1,1-Dichloroethane	2.251	2.078	0.300	7.7	20.0	
	14 Vinyl acetate	0.433	0.238	0.010	44.9	20.0	<-
	15 cis-1,2-Dichloroethene	1.424	1.182	0.010	17.0	20.0	
	16 2-Butanone	0.022	0.018	0.010	16.5	20.0	
	18 Chloroform	2.943	2.615	0.010	11.2	20.0	
	19 1,1,1-Trichloroethane	0.619	0.583	0.010	5.8	20.0	
	20 Carbon tetrachloride	0.618	0.071	0.010	88.6	20.0	<-
$	21 1,2-Dichloroethane-d4 (SS)	1.531	1.470	0.010	4.0	20.0	
	22 Benzene	0.710	0.717	0.010	1.0	20.0	
	23 1,2-Dichloroethane	1.669	0.145	0.010	91.3	20.0	<-
	25 Trichloroethene	0.380	0.440	0.010	15.8	20.0	
	26 1,2-Dichloropropane	0.331	0.340	0.010	2.9	20.0	
	27 2-Chloroethyl vinyl ether	0.326	0.340	0.010	4.5	20.0	
	28 Bromodichloromethane	0.617	0.614	0.010	0.6	20.0	
	29 cis-1,3-Dichloropropene	0.437	0.421	0.010	3.8	20.0	
	30 4-Methyl-2-pentanone	0.315	0.201	0.010	36.3	20.0	<-
$	31 Toluene-d8 (SS)	1.254	1.321	0.010	5.4	20.0	
	32 Toluene	0.711	0.675	0.010	5.1	20.0	
	33 trans-1,3-Dichloropropene	0.432	0.421	0.010	2.6	20.0	
	34 1,1,2-Trichloroethane	0.296	0.276	0.010	6.8	20.0	
	35 Tetrachloroethene	0.540	0.521	0.010	3.4	20.0	
	36 2-Hexanone	0.180	0.073	0.010	59.2	20.0	<-
	37 Chlorodibromomethane	0.511	0.506	0.010	1.1	20.0	
	39 Chlorobenzene	0.933	0.877	0.300	6.0	20.0	
	40 Ethylbenzene	0.337	0.289	0.010	14.0	20.0	
	41 m,p-Xylene	0.409	0.337	0.010	17.7	20.0	
	42 o-Xylene	0.387	0.314	0.010	18.7	20.0	
	43 Styrene	0.679	0.553	0.010	18.5	20.0	
	44 Bromoform	0.572	0.518	0.100	9.4	20.0	

Inchcape Testing Services - Environmental Laboratories

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: its6.i Injection Date: 05-OCT-1996 14:41
Lab File ID: BB7360201002.d Init. Calibration Date(s): 09/19/96 09/19/96
Analysis Type: WATER Init. Calibration Times: 12:48 19:05
Lab Sample ID: 8240 DAILY STD Method File: /chem1/its6.i/10-05-96A.b/8240_vo
Quant Type: ISTD

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
$ 45 Bromofluorobenzene (SS)	0.647	0.577	0.010	10.8	20.0	
46 1,1,2,2-Tetrachloroethane	0.558	0.329	0.300	41.1	20.0	<-
47 1,3-Dichlorobenzene	0.562	0.479	0.010	14.8	20.0	
48 1,4-Dichlorobenzene	0.676	0.557	0.010	17.6	20.0	
49 1,2-Dichlorobenzene	0.535	0.433	0.010	19.0	20.0	

Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/10-05-96A.b/BB7360201002.d
Lab Smp Id: 8240 DAILY STD
Client Smp ID: 50 UG/L
Inj Date : 05-OCT-1996 14:41
Autotune Date: 06-Aug-96 17:28
Operator : MICHELLE
Inst ID: its6.i
Smp Info : 8240 DAILY STD
Misc Info : 50 UG/L
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle
Quant Type: ISTD
Cal Date : 19-SEP-1996 19:05
Cal File: BB7252001020.d
Als bottle: 2
Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: 8240.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	1 Dichlorodifluoromethane	85.00	1.375	1.277	(0.312)	138560	50.0	20.4
	2 Chloromethane	50.00	1.538	1.432	(0.349)	100130	50.0	31.6
	3 Vinyl chloride	62.00	1.636	1.530	(0.371)	193081	50.0	40.4(M)
	4 Bromomethane	94.00	1.954	1.824	(0.443)	189955	50.0	53.7
	5 Chloroethane	64.00	2.044	1.913	(0.463)	117987	50.0	59.2(M)
	6 1,1-Dichloroethene	96.00	2.754	2.599	(0.624)	227191	50.0	41.8
	9 Carbon disulfide	76.00	2.942	2.779	(0.667)	607613	50.0	42.6
	10 Methylene chloride	84.00	3.178	3.023	(0.721)	280421	50.0	51.3
	11 trans-1,2-Dichloroethene	96.00	3.407	3.244	(0.772)	271235	50.0	43.2
	13 1,1-Dichloroethane	63.00	3.742	3.587	(0.848)	522481	50.0	46.2
	14 Vinyl acetate	43.00	3.783	3.636	(0.727)	228383	50.0	27.5(a)
	15 cis-1,2-Dichloroethene	96.00	4.215	4.052	(0.956)	297130	50.0	41.5
	16 2-Butanone	72.00	4.223	4.068	(0.811)	17360	50.0	41.8(a)
*	17 Bromochloromethane	128.00	4.411	4.248	(1.000)	251462	50.0	
	18 Chloroform	83.00	4.460	4.305	(1.011)	657471	50.0	44.4
	19 1,1,1-Trichloroethane	97.00	4.607	4.452	(0.885)	559236	50.0	47.1
	20 Carbon tetrachloride	117.00	4.624	4.591	(0.888)	67654	50.0	5.70
$	21 1,2-Dichloroethane-d4 (SS)	65.00	4.861	4.705	(1.102)	369567	50.0	48.0
	22 Benzene	78.00	4.902	4.754	(0.942)	687376	50.0	50.5
	23 1,2-Dichloroethane	62.00	4.615	4.763	(1.046)	36441	50.0	4.34(aQ)
*	24 1,4-Difluorobenzene	114.00	5.204	5.049	(1.000)	959044	50.0	
	25 Trichloroethene	130.00	5.417	5.261	(1.041)	422406	50.0	57.9
	26 1,2-Dichloropropane	63.00	5.597	5.433	(1.075)	326425	50.0	51.4
	27 2-Chloroethyl vinyl ether	63.00	5.597	5.433	(1.075)	326425	50.0	52.3
	28 Bromodichloromethane	83.00	5.817	5.661	(1.118)	588737	50.0	49.7
	29 cis-1,3-Dichloropropene	75.00	6.168	6.021	(1.185)	403375	50.0	48.1
	30 4-Methyl-2-pentanone	43.00	6.283	6.135	(0.824)	122929	50.0	31.8(a)
$	31 Toluene-d8 (SS)	98.00	6.397	6.249	(0.839)	809002	50.0	52.7
	32 Toluene	92.00	6.447	6.307	(0.846)	413064	50.0	47.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,3-Dichloropropene	75.00	6.168	6.021	(1.185)	403375	50.0	48.7
34 1,1,2-Trichloroethane	97.00	6.782	6.634	(1.303)	264894	50.0	46.6
35 Tetrachloroethene	164.00	6.921	6.781	(0.908)	319032	50.0	48.3
37 Chlorodibromomethane	129.00	7.126	6.985	(1.369)	485139	50.0	49.4
* 38 Chlorobenzene-d5	117.00	7.623	7.483	(1.000)	612295	50.0	
39 Chlorobenzene	112.00	7.648	7.508	(1.003)	537225	50.0	47.0
40 Ethylbenzene	106.00	7.730	7.589	(1.014)	177131	50.0	43.0
41 m,p-Xylene	106.00	7.837	7.696	(1.028)	412367	100	82.3(QH)
42 o-Xylene	106.00	8.188	8.055	(1.074)	192533	50.0	40.6(M)
43 Styrene	104.00	8.196	8.063	(1.075)	338883	50.0	40.7(M)
44 Bromoform	173.00	8.384	8.243	(1.100)	317440	50.0	45.3
$ 45 Bromofluorobenzene (SS)	95.00	8.662	8.529	(1.136)	353250	50.0	44.6
46 1,1,2,2-Tetrachloroethane	83.00	8.777	8.643	(1.151)	201323	50.0	29.4
47 1,3-Dichlorobenzene	146.00	9.674	9.541	(1.269)	293331	50.0	42.6(M)
48 1,4-Dichlorobenzene	146.00	9.748	9.606	(1.279)	341284	50.0	41.2(H)
49 1,2-Dichlorobenzene	146.00	10.107	9.965	(1.326)	265203	50.0	40.5(M)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7360201002.d
Lab Smp Id: 8240 DAILY STD
Analysis Type: VOA
Quant Type: ISTD
Operator: MICHELLE
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: 50 UG/L

Calibration Date: 10/05/96
Calibration Time: 1441
Client Smp ID: 50 UG/L
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	251462	125731	502924	251462	0.00
24 1,4-Difluorobenzene	959044	479522	1918088	959044	0.00
38 Chlorobenzene-d5	612295	306148	1224590	612295	0.00

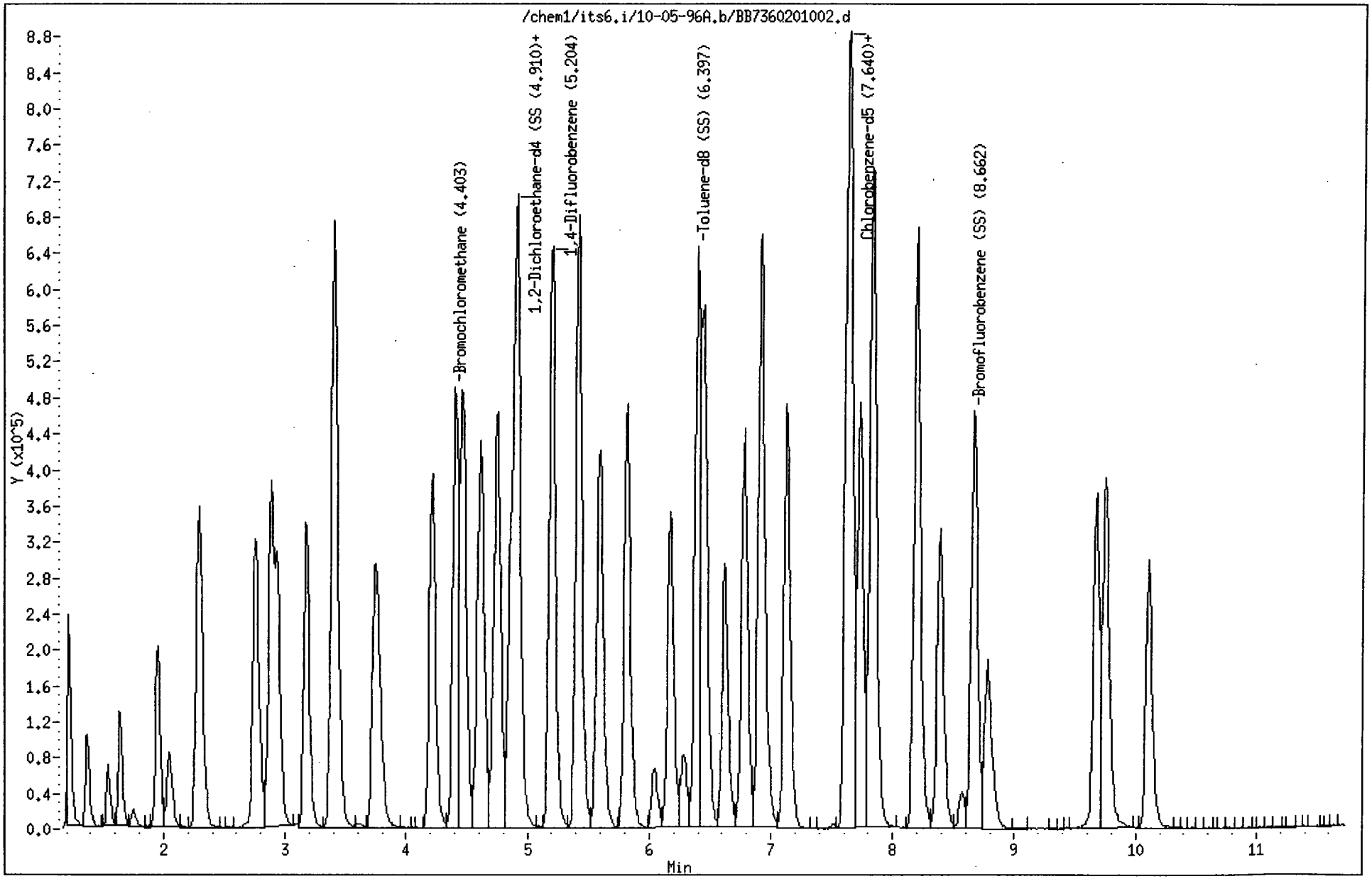
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.41	3.91	4.91	4.41	0.00
24 1,4-Difluorobenzene	5.20	4.70	5.70	5.20	0.00
38 Chlorobenzene-d5	7.62	7.12	8.12	7.62	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/its6.i/10-05-96A.b/BB7360201002.d
Date : 05-OCT-1996 14:41
Client ID: 50 UG/L
Sample Info: 8240 DAILY STD
Purge Volume: 5.0
Column phase: 2.00

Instrument: its6.i

Operator: MICHELLE
Column diameter: 0.53



RAW QUALITY CONTROL DATA

Data File: /chem1/its6.i/09-19-96.b/BB7250501005.d

Date : 19-SEP-96 12:40

Client ID: BFB 50 NG

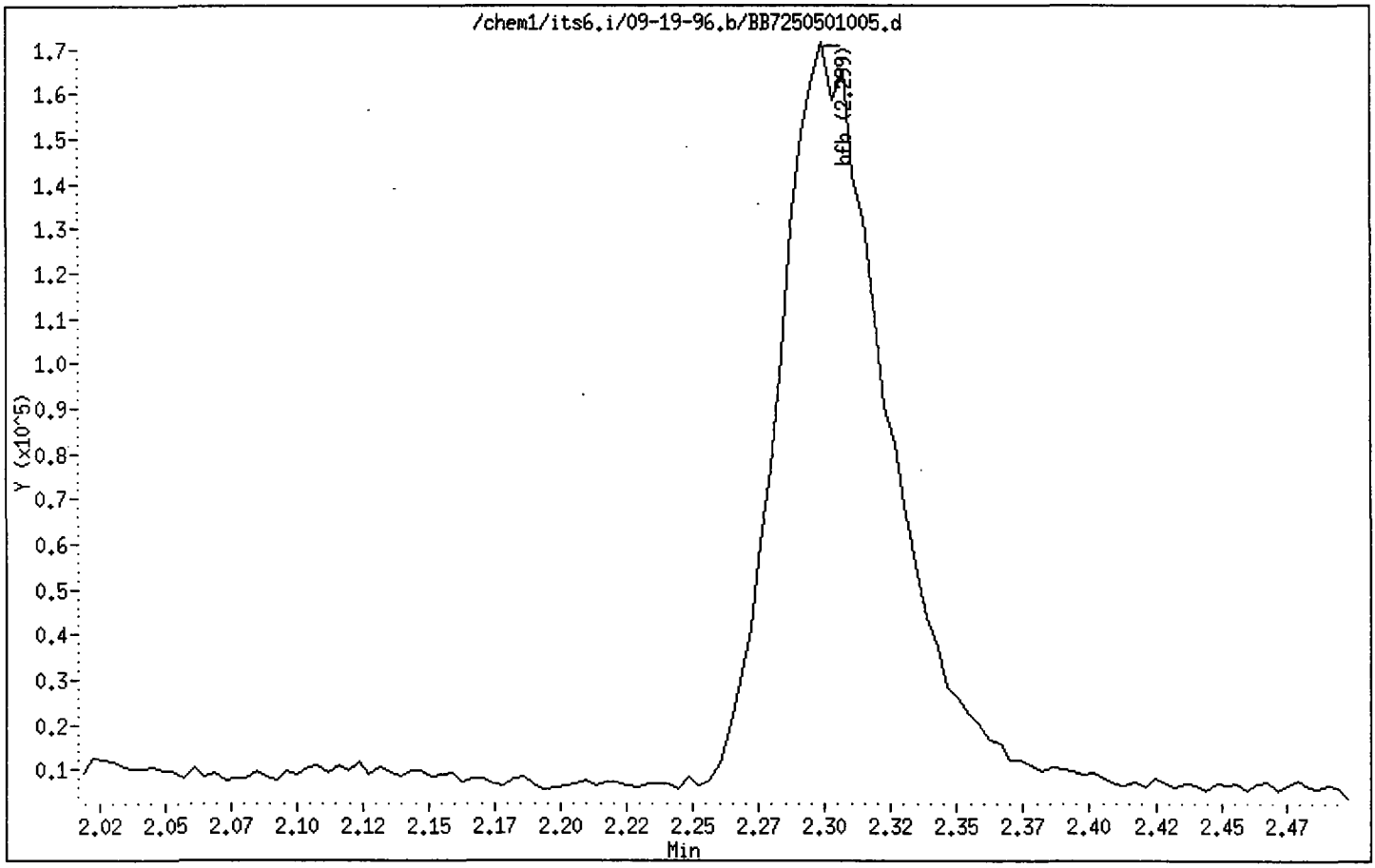
Instrument: its6.i

Sample Info: 8240 TUNE

Operator: MICHELLE

Column phase:

Column diameter: 0.53



Data File: /chem1/its6.i/09-19-96.b/BB7250501005.d

Date : 19-SEP-96 12:40

Client ID: BFB 50 NG

Instrument: its6.i

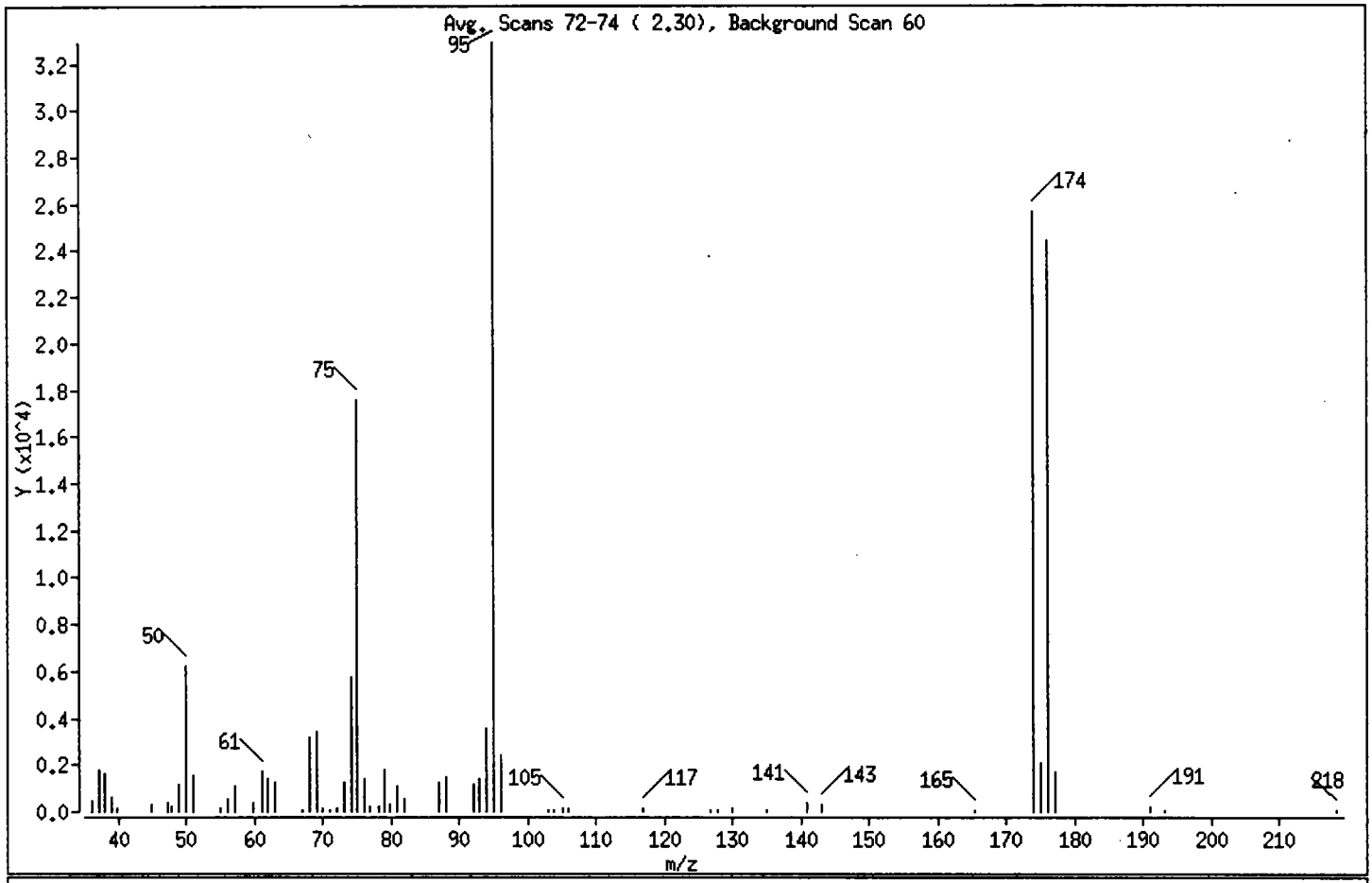
Sample Info: 8240 TUNE

Operator: MICHELLE

Column phase:

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.87
75	30.00 - 60.00% of mass 95	53.53
96	5.00 - 9.00% of mass 95	7.39
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	77.98
175	5.00 - 9.00% of mass 174	6.44 (8.26)
176	95.00 - 101.00% of mass 174	74.12 (95.05)
177	5.00 - 9.00% of mass 176	5.13 (6.92)

Data File: /chem1/its6.i/09-19-96.b/BB7250501005.d
Date : 19-SEP-96 12:40
Client ID: BFB 50 NG
Sample Info: 8240 TUNE

Instrument: its6.i

Operator: MICHELLE

Column phase:

Column diameter: 0.53

Data File: BB7250501005.d
Spectrum : Avg. Scans 72-74 (2.30), Background Scan 60
Largest m/z: 95.05
Number of peaks: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.05	453	62.05	1405	81.00	1089	129.95	144
37.05	1770	63.05	1224	82.00	538	134.95	67
38.05	1596	67.15	73	86.90	1249	140.90	374
39.15	652	68.05	3166	88.00	1513	143.10	281
39.95	136	69.05	3388	92.05	1148	165.35	73
44.90	345	69.95	170	92.95	1393	174.00	25664
47.30	426	70.95	72	94.05	3616	174.90	2120
47.90	256	72.05	193	95.05	32904	176.00	24392
49.00	1195	73.15	1213	96.05	2432	177.00	1689
50.10	6211	74.15	5722	103.05	110	190.85	265
51.00	1524	75.10	17616	103.85	85	193.05	67
55.00	192	76.10	1376	105.05	162	218.50	71
56.10	550	76.80	249	106.05	159		
57.10	1098	78.10	196	116.80	190		
59.95	356	79.00	1807	126.85	68		
61.05	1720	79.80	281	127.85	80		

Data File: /chem1/its6.i/10-05-96A.b/BB7360101001.d

Date : 05-OCT-96 14:31

Client ID: BFB 50 NG

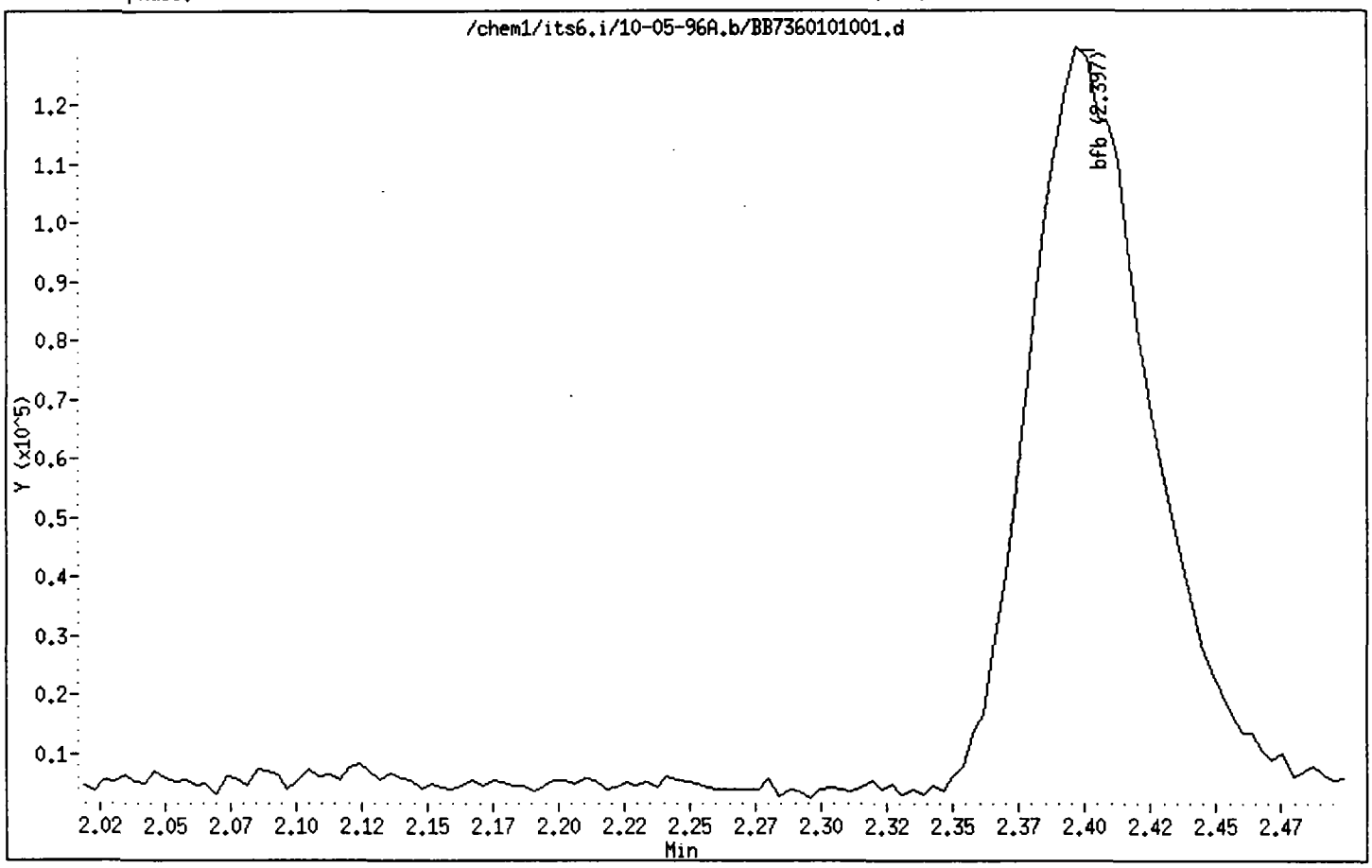
Instrument: its6.i

Sample Info: 8240 TUNE

Operator: MICHELLE

Column phase:

Column diameter: 0.53



Data File: /chem1/its6.i/10-05-96A.b/BB7360101001.d

Date : 05-OCT-96 14:31

Client ID: BFB 50 NG

Instrument: its6.i

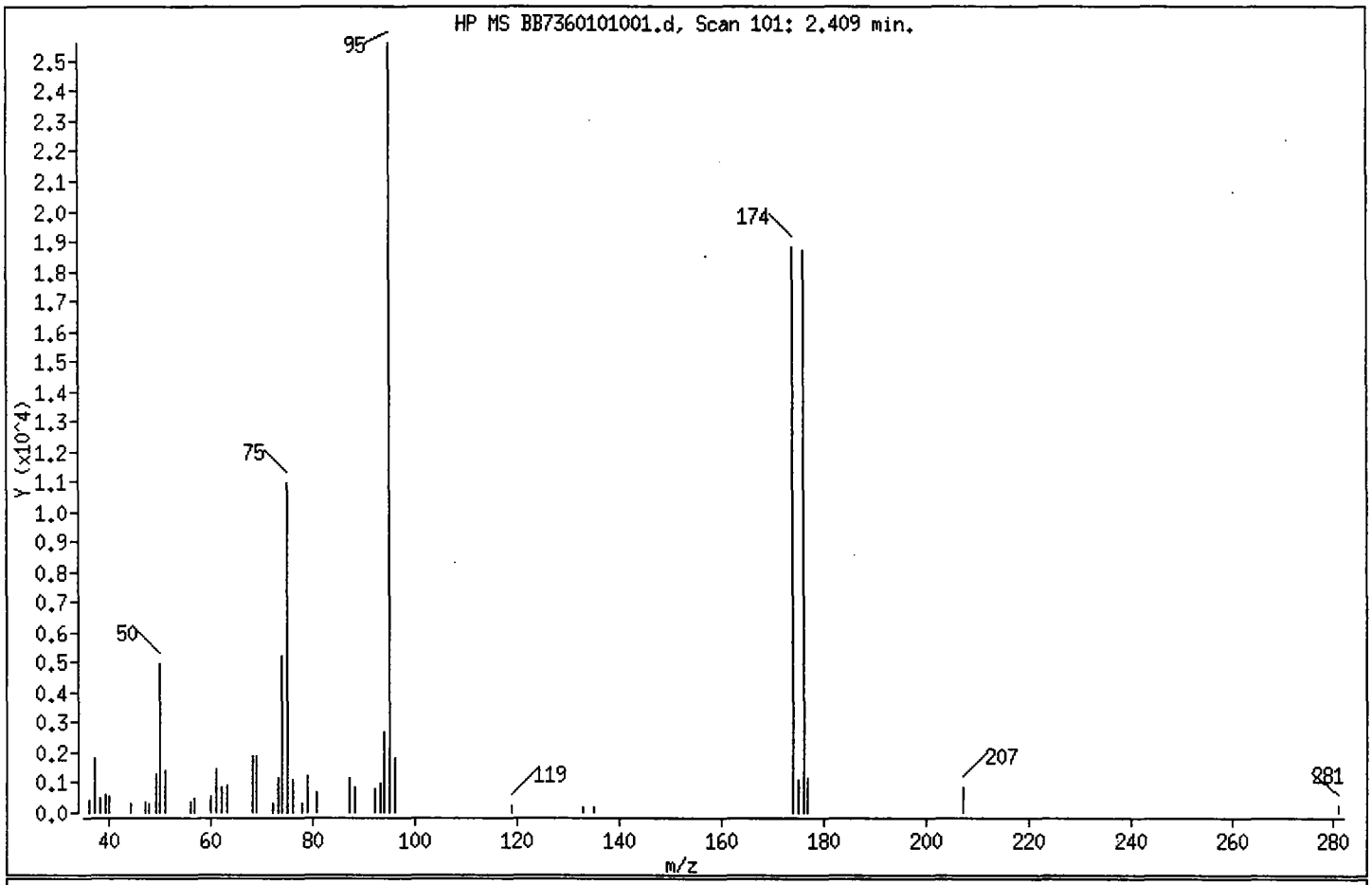
Sample Info: 8240 TUNE

Operator: MICHELLE

Column phase:

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.43
75	30.00 - 60.00% of mass 95	42.86
96	5.00 - 9.00% of mass 95	7.17
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	73.41
175	5.00 - 9.00% of mass 174	4.36 (5.94)
176	95.00 - 101.00% of mass 174	73.03 (99.49)
177	5.00 - 9.00% of mass 176	4.42 (6.05)

Data File: /chem1/its6.i/10-05-96A.b/BB7360101001.d

Date : 05-OCT-96 14:31

Client ID: BFB 50 NG

Instrument: its6.i

Sample Info: 8240 TUNE

Operator: MICHELLE

Column phase:

Column diameter: 0.53

Data File: BB7360101001.d
Spectrum : HP MS BB7360101001.d, Scan 101: 2.409 min.
Largest m/z: 95.05
Number of peaks: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.95	417	56.00	342	75.00	10972	96.05	1835
37.05	1807	56.90	466	76.10	1078	118.90	271
38.05	494	59.95	521	77.80	288	132.95	206
39.15	615	61.05	1428	78.90	1217	134.85	203
40.05	559	62.05	825	80.80	651	173.90	18792
44.10	320	63.05	885	87.10	1149	175.00	1117
47.10	382	68.05	1862	88.00	830	176.00	18696
47.90	309	69.05	1902	92.05	784	176.90	1131
49.10	1272	71.95	317	93.05	971	207.00	822
50.10	4975	73.05	1135	94.05	2688	281.10	216
51.10	1410	74.05	5204	95.05	25600		

FORM 1 VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

AT Kearney, Inc.

| Method Blank |

Name: ITS Dallas Contract:

Lab Code: 11169 Case No.: SAS No.: SDG No.: D96-10809

Matrix (soil/water): Water Lab Sample ID: D96-10809-6

Sample wt/vol: 5.0 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received : 27-SEP-1996

% Moisture: 0.0 decanted(Y/N) N Date Analyzed: 5-OCT-1996

GC Column: ID: 0.53(mm) Dilution Factor: 1

Soil Extract Volume:_____(mL) Soil Aliquot Volume:_____(çL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	10.0	U
75-05-8	Acetonitrile	100	U
107-02-8	Acrolein	10.0	U
107-13-1	Acrylonitrile	10.0	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
78-93-3	2-Butanone	10.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
----------	2-Chloro-1,3-butadiene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
----------	3-Chloropropene	10.0	U
96-12-8	1,2-Dibromo-3-chloropropane	20.0	U
106-93-4	1,2-Dibromoethane	1.0	U
74-95-3	Dibromomethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
540-59-0	trans-1,2-Dichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
123-91-1	1,4-Dioxane	500	U
----------	Ethyl benzene	1.0	U

FORM 1 VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

AT Kearney, Inc.

| Method Blank

Lab Name: ITS Dallas Contract:

Lab Code: 11169 Case No.: SAS No.: SDG No.: D96-10809

Matrix (soil/water): Water Lab Sample ID: D96-10809-6

Sample wt/vol: 5.0 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received : 27-SEP-1996

% Moisture: 0.0 decanted(Y/N) N Date Analyzed: 5-OCT-1996

GC Column: ID: 0.53(mm) Dilution Factor: 1

Soil Extract Volume:_____(mL) Soil Aliquot Volume:_____(çL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
97-63-2	Ethyl methacrylate	1.0	U
591-78-6	2-Hexanone	10.0	U
74-88-4	Iodomethane	10.0	U
78-83-1	Isobutyl alcohol	500	U
126-98-7	Methacrylonitrile	20.0	U
80-62-6	Methyl methacrylate	1.0	U
108-10-1	4-Methyl-2-pentanone	10.0	U
75-09-2	Methylene chloride	1.0	U
107-12-0	Propionitrile	1.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	10.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

METHOD BLK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7360301003

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/10-05-96A.b/BB7360301003.d
Lab Smp Id: D96-11030-55 Client Smp ID: METHOD BLANK
Inj Date : 05-OCT-1996 15:01 Autotune Date: 06-Aug-96 17:28
Operator : MICHELLE Inst ID: its6.i
Smp Info : GM_048240L;;ITS6-842;1;>2
Misc Info : METHOD BLANK
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle Quant Type: ISTD
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: 8240.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 17 Bromochloromethane	128.00	4.415	4.248	(1.000)	268935	50.0	
$ 21 1,2-Dichloroethane-d4 (SS)	65.00	4.864	4.705	(1.102)	375772	45.6	45.6
* 24 1,4-Difluorobenzene	114.00	5.199	5.049	(1.000)	1004482	50.0	
$ 31 Toluene-d8 (SS)	98.00	6.397	6.249	(0.840)	859165	53.2	53.2
* 38 Chlorobenzene-d5	117.00	7.620	7.483	(1.000)	644479	50.0	
$ 45 Bromofluorobenzene (SS)	95.00	8.664	8.529	(1.137)	420523	50.4	50.4

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem1/its6.i/10-05-96A.b/BB7360301003.d
Lab Smp Id: D96-11030-55 Client Smp ID: METHOD BLANK
Inj Date : 05-OCT-1996 15:01 Autotune Date: 06-Aug-96 17:28:4
Operator : MICHELLE Inst ID: its6.i
Smp Info : GM_048240L;;ITS6-842;1;>2
Misc Info : METHOD BLANK
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: 8240.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7360301003.d
Lab Smp Id: D96-11030-55
Analysis Type: VOA
Quant Type: ISTD
Operator: MICHELLE
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: METHOD BLANK

Calibration Date: 10/05/96
Calibration Time: 1441
Client Smp ID: METHOD BLANK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	251462	125731	502924	268935	6.95
24 1,4-Difluorobenzene	959044	479522	1918088	1004482	4.74
38 Chlorobenzene-d5	612295	306148	1224590	644479	5.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.41	3.91	4.91	4.42	0.10
24 1,4-Difluorobenzene	5.20	4.70	5.70	5.20	-0.10
38 Chlorobenzene-d5	7.62	7.12	8.12	7.62	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-11030-55
Level: LOW
Data Type: MS DATA
SpikeList File: liquidqc.spk
Client SDG: 10-05-96A
Fraction: VOA
Client Smp ID: METHOD BLANK
Operator: MICHELLE
SampleType: BLANK
Quant Type: ISTD
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: METHOD BLANK

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 21 1,2-Dichloroethane	50.0	45.6	91.25	76-115
$ 31 Toluene-d8 (SS)	50.0	53.2	106.34	88-110
$ 45 Bromofluorobenzene	50.0	50.4	100.84	86-115

Data Fi[illegible]/chem1/its6.i/10-05-96A.b/BB7360301003.d

Pa[illegible]

Date : 05-OCT-1996 15:01

Client ID: METHOD BLANK

Instrument: its6.i

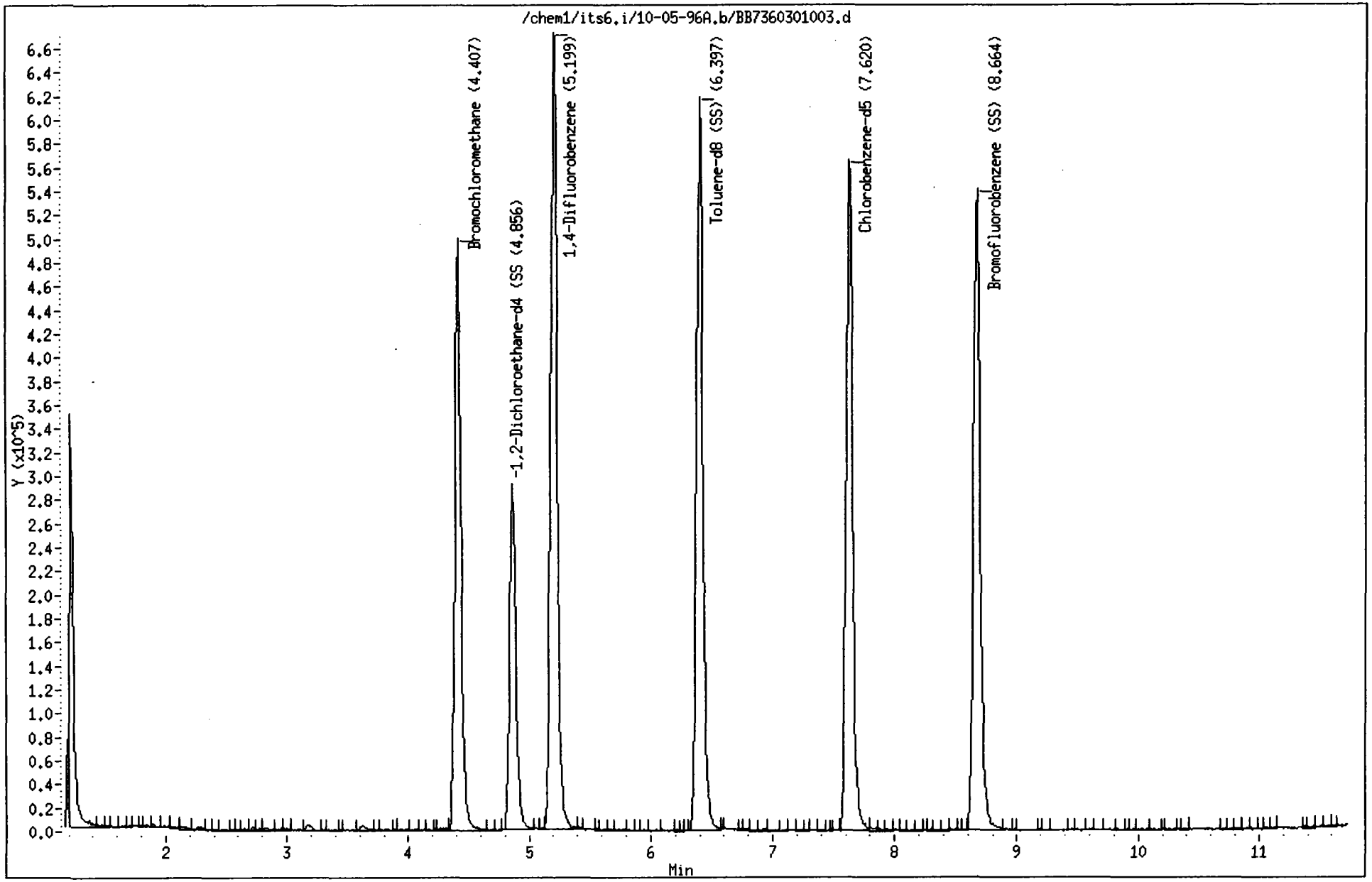
Sample Info: GM_048240L;;ITS6-842;1;>2

Purge Volume: 5.0

Operator: MICHELLE

Column phase: 2.00

Column diameter: 0.53



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RFIMW15 MS

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4MS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7360601006

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	25.7	
74-83-9	Bromomethane	43.1	
75-01-4	Vinyl chloride	29.2	
75-00-3	Chloroethane	40.8	
75-09-2	Methylene chloride	37.7	
67-64-1	Acetone	100	U
75-15-0	Carbon disulfide	31.5	
75-35-4	1,1-Dichloroethene	30.9	
156-60-5	trans-1,2-Dichloroethene	31.9	
75-34-3	1,1-Dichloroethane	33.2	
107-06-2	1,2-Dichloroethane	3.30	J
67-66-3	Chloroform	32.6	
78-93-3	2-Butanone	32.0	J
71-55-6	1,1,1-Trichloroethane	33.5	
56-23-5	Carbon tetrachloride	4.12	J
108-05-4	Vinyl acetate	36.2	J
75-27-4	Bromodichloromethane	34.8	
78-87-5	1,2-Dichloropropane	34.7	
10061-01-5	cis-1,3-Dichloropropene	34.0	
79-01-6	Trichloroethene	35.5	
71-43-2	Benzene	35.8	
10061-02-6	trans-1,3-Dichloropropene	34.4	
79-00-5	1,1,2-Trichloroethane	34.7	
110-75-8	2-Chloroethyl vinyl ether	35.2	
124-48-1	Chlorodibromomethane	34.8	
75-25-2	Bromoform	37.9	
108-10-1	4-Methyl-2-pentanone	37.3	J
79-34-5	1,1,2,2-Tetrachloroethane	42.6	
127-18-4	Tetrachloroethene	38.3	
591-78-6	2-Hexanone	36.3	J
108-88-3	Toluene	39.8	
108-90-7	Chlorobenzene	43.4	
100-41-4	Ethylbenzene	41.5	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RFIMW15 MS

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4MS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7360601006

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	36.4	
108-38-3	m,p-Xylene	82.2	
156-59-2	cis-1,2-Dichloroethene	30.9	
95-47-6	o-Xylene	39.9	
541-73-1	1,3-Dichlorobenzene	39.6	
106-46-7	1,4-Dichlorobenzene	41.7	
95-50-1	1,2-Dichlorobenzene	43.2	
75-71-8	Dichlorodifluoromethane	16.0	
76-13-1	Trichlorotrifluoroethane	5.00	U

Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/10-05-96A.b/BB7360601006.d
Lab Smp Id: D96-10809-4MS Client Smp ID: MATRIX SPIKE
Inj Date : 05-OCT-1996 15:58 Autotune Date: 06-Aug-96 17:28
Operator : MICHELLE Inst ID: its6.i
Smp Info : D96-10809-4MS
Misc Info : MATRIX SPIKE
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle Quant Type: ISTD
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 6 QC Sample: MS
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: 8240.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	1 Dichlorodifluoromethane	85.00	1.375	1.277	(0.312)	117916	16.0	16.0
	2 Chloromethane	50.00	1.538	1.432	(0.349)	88849	25.7	25.7
	3 Vinyl chloride	62.00	1.644	1.530	(0.373)	152086	29.2	29.2
	4 Bromomethane	94.00	1.954	1.824	(0.443)	165881	43.1	43.1
	5 Chloroethane	64.00	2.052	1.913	(0.465)	95465	40.8	40.8
	6 1,1-Dichloroethene	96.00	2.762	2.599	(0.626)	183066	30.9	30.9
	9 Carbon disulfide	76.00	2.942	2.779	(0.667)	488643	31.5	31.5
	10 Methylene chloride	84.00	3.187	3.023	(0.722)	223907	37.7	37.7
	11 trans-1,2-Dichloroethene	96.00	3.407	3.244	(0.772)	218271	31.9	31.9
	13 1,1-Dichloroethane	63.00	3.750	3.587	(0.850)	408971	33.2	33.2
	14 Vinyl acetate	43.00	3.799	3.636	(0.730)	337889	36.2	36.2(a)
	15 cis-1,2-Dichloroethene	96.00	4.224	4.052	(0.957)	240866	30.9	30.9
	16 2-Butanone	72.00	4.240	4.068	(0.815)	14941	32.0	32.0(a)
*	17 Bromochloromethane	128.00	4.411	4.248	(1.000)	273749	50.0	
	18 Chloroform	83.00	4.477	4.305	(1.015)	526077	32.6	32.6
	19 1,1,1-Trichloroethane	97.00	4.616	4.452	(0.887)	447325	33.5	33.5
	20 Carbon tetrachloride	117.00	4.624	4.591	(0.888)	54847	4.12	4.12(a)
$	21 1,2-Dichloroethane-d4 (SS)	65.00	4.861	4.705	(1.102)	404596	48.2	48.2
	22 Benzene	78.00	4.910	4.754	(0.943)	548156	35.8	35.8
	23 1,2-Dichloroethane	62.00	4.616	4.763	(1.046)	30121	3.30	3.30(aQ)
*	24 1,4-Difluorobenzene	114.00	5.205	5.049	(1.000)	1077342	50.0	
	25 Trichloroethene	130.00	5.417	5.261	(1.041)	290772	35.5	35.5
	26 1,2-Dichloropropane	63.00	5.597	5.433	(1.075)	247195	34.7	34.7
	27 2-Chloroethyl vinyl ether	63.00	5.597	5.433	(1.075)	247195	35.2	35.2
	28 Bromodichloromethane	83.00	5.826	5.661	(1.119)	462406	34.8	34.8
	29 cis-1,3-Dichloropropene	75.00	6.177	6.021	(1.187)	320235	34.0	34.0
	30 4-Methyl-2-pentanone	43.00	6.291	6.135	(0.825)	142005	37.3	37.3(a)
$	31 Toluene-d8 (SS)	98.00	6.398	6.249	(0.839)	822546	54.4	54.4(M)
	32 Toluene	92.00	6.455	6.307	(0.847)	341972	39.8	39.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
33 trans-1,3-Dichloropropene	75.00	6.177	6.021	(1.187)	320235	34.4	34.4
34 1,1,2-Trichloroethane	97.00	6.782	6.634	(1.303)	221557	34.7	34.7
35 Tetrachloroethene	164.00	6.921	6.781	(0.908)	249579	38.3	38.3
36 2-Hexanone	43.00	6.979	6.838	(0.915)	78667	36.3	36.3(a)
37 Chlorodibromomethane	129.00	7.134	6.985	(1.371)	383170	34.8	34.8
* 38 Chlorobenzene-d5	117.00	7.624	7.483	(1.000)	603621	50.0	(M)
39 Chlorobenzene	112.00	7.648	7.508	(1.003)	489165	43.4	43.4(M)
40 Ethylbenzene	106.00	7.730	7.589	(1.014)	168628	41.5	41.5
41 m,p-Xylene	106.00	7.837	7.696	(1.028)	406182	82.2	82.2(H)
42 o-Xylene	106.00	8.196	8.055	(1.075)	186263	39.9	39.9
43 Styrene	104.00	8.204	8.063	(1.076)	298196	36.4	36.4
44 Bromoform	173.00	8.384	8.243	(1.100)	261983	37.9	37.9
$ 45 Bromofluorobenzene (SS)	95.00	8.662	8.529	(1.136)	426184	54.6	54.6(M)
46 1,1,2,2-Tetrachloroethane	83.00	8.777	8.643	(1.151)	287185	42.6	42.6
47 1,3-Dichlorobenzene	146.00	9.666	9.541	(1.268)	269181	39.6	39.6
48 1,4-Dichlorobenzene	146.00	9.757	9.606	(1.280)	340148	41.7	41.7(H)
49 1,2-Dichlorobenzene	146.00	10.108	9.965	(1.326)	278617	43.2	43.2

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem1/its6.i/10-05-96A.b/BB7360601006.d
Lab Smp Id: D96-10809-4MS Client Smp ID: MATRIX SPIKE
Inj Date : 05-OCT-1996 15:58 Autotune Date: 06-Aug-96 17:28:4
Operator : MICHELLE Inst ID: its6.i
Smp Info : D96-10809-4MS
Misc Info : MATRIX SPIKE
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 6 QC Sample: MS
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: 8240.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7360601006.d
Lab Smp Id: D96-10809-4MS
Analysis Type: VOA
Quant Type: ISTD
Operator: MICHELLE
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: MATRIX SPIKE

Calibration Date: 10/05/96
Calibration Time: 1441
Client Smp ID: MATRIX SPIKE
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	251462	125731	502924	273749	8.86
24 1,4-Difluorobenzene	959044	479522	1918088	1077342	12.33
38 Chlorobenzene-d5	612295	306148	1224590	603621	-1.42

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.41	3.91	4.91	4.41	0.01
24 1,4-Difluorobenzene	5.20	4.70	5.70	5.20	0.01
38 Chlorobenzene-d5	7.62	7.12	8.12	7.62	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-4MS
Level: LOW
Data Type: MS DATA
SpikeList File: liquidqc.spk
Client SDG: 10-05-96A
Fraction: VOA
Client Smp ID: MATRIX SPIKE
Operator: MICHELLE
SampleType: MS
Quant Type: ISTD
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: MATRIX SPIKE

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
6 1,1-Dichloroethene	50.0	30.9	61.82	55-130
25 Trichloroethene	50.0	35.5	70.97	60-140
22 Benzene	50.0	35.8	71.71	65-135
32 Toluene	50.0	39.8	79.70	60-145
39 Chlorobenzene	50.0	43.4	86.84	75-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 21 1,2-Dichloroethane	50.0	48.2	96.52	76-115
$ 31 Toluene-d8 (SS)	50.0	54.4	108.70	88-110
$ 45 Bromofluorobenzene	50.0	54.6	109.12	86-115

Data Fi[illegible]/chem1/its6.i/10-05-96A.b/BB7360601006.d

Pa[illegible]

Date : 05-OCT-1996 15:58

Client ID: MATRIX SPIKE

Instrument: its6.i

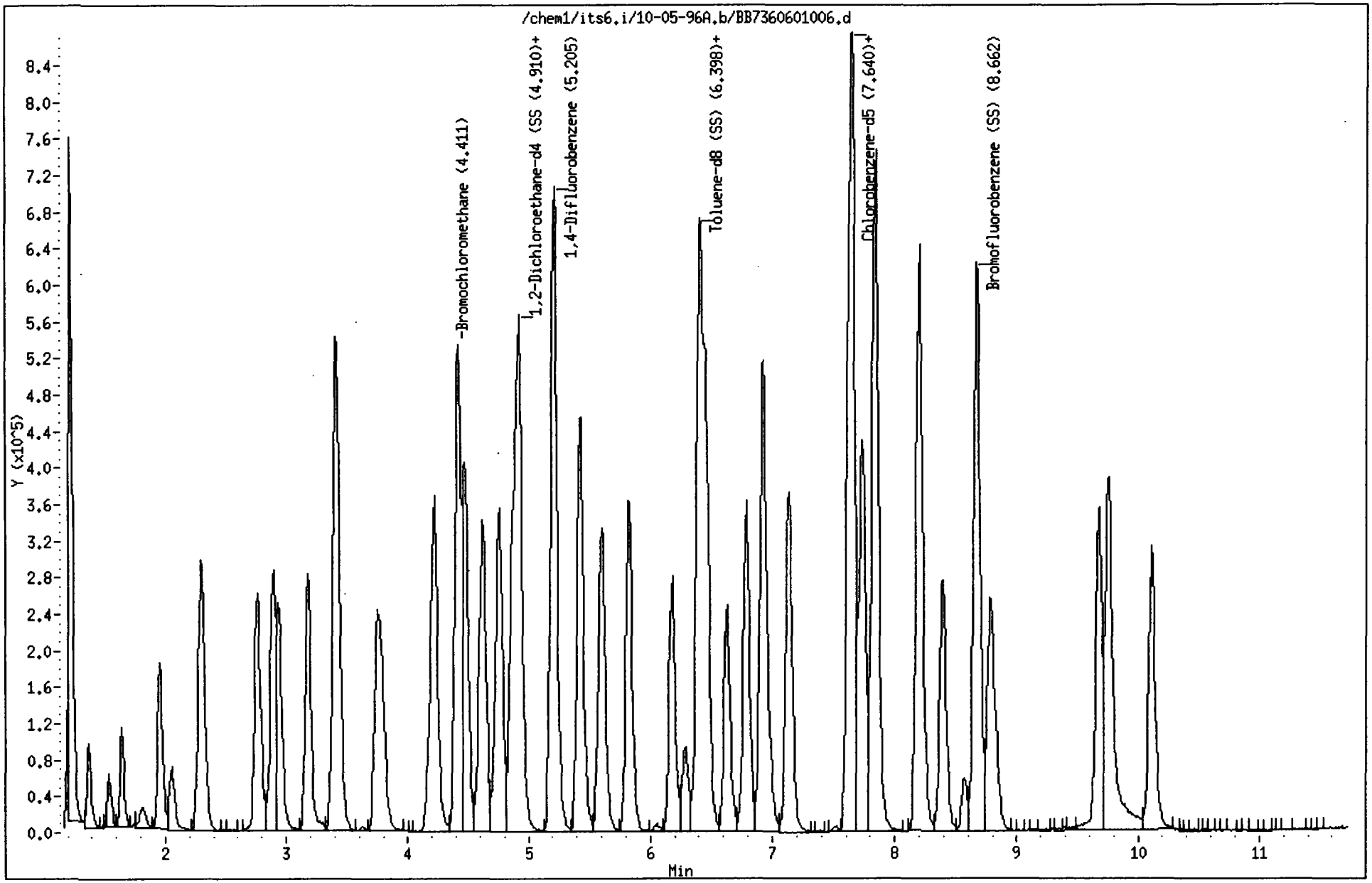
Sample Info: D96-10809-4MS

Purge Volume: 5.0

Operator: MICHELLE

Column phase: 2.00

Column diameter: 0.53



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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RFIMW15 MSD

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4MSD

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7360701007

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	28.2	
74-83-9	Bromomethane	45.3	
75-01-4	Vinyl chloride	34.0	
75-00-3	Chloroethane	50.9	
75-09-2	Methylene chloride	42.6	
67-64-1	Acetone	100	U
75-15-0	Carbon disulfide	36.3	
75-35-4	1,1-Dichloroethene	35.4	
156-60-5	trans-1,2-Dichloroethene	36.8	
75-34-3	1,1-Dichloroethane	39.3	
107-06-2	1,2-Dichloroethane	3.85	J
67-66-3	Chloroform	38.0	
78-93-3	2-Butanone	39.2	J
71-55-6	1,1,1-Trichloroethane	42.0	
56-23-5	Carbon tetrachloride	5.35	
108-05-4	Vinyl acetate	45.8	J
75-27-4	Bromodichloromethane	44.0	
78-87-5	1,2-Dichloropropane	45.3	
10061-01-5	cis-1,3-Dichloropropene	42.1	
79-01-6	Trichloroethene	44.1	
71-43-2	Benzene	43.8	
10061-02-6	trans-1,3-Dichloropropene	42.6	
79-00-5	1,1,2-Trichloroethane	44.5	
110-75-8	2-Chloroethyl vinyl ether	46.1	
124-48-1	Chlorodibromomethane	44.7	
75-25-2	Bromoform	45.5	
108-10-1	4-Methyl-2-pentanone	46.3	J
79-34-5	1,1,2,2-Tetrachloroethane	49.8	
127-18-4	Tetrachloroethene	42.3	
591-78-6	2-Hexanone	44.7	J
108-88-3	Toluene	42.9	
108-90-7	Chlorobenzene	42.4	
100-41-4	Ethylbenzene	38.2	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RFIMW15 MSD

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4MSD

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7360701007

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	34.8	
108-38-3	m,p-Xylene	67.8	
156-59-2	cis-1,2-Dichloroethene	37.0	
95-47-6	o-Xylene	34.2	
541-73-1	1,3-Dichlorobenzene	32.9	
106-46-7	1,4-Dichlorobenzene	35.9	
95-50-1	1,2-Dichlorobenzene	36.3	
75-71-8	Dichlorodifluoromethane	17.4	
76-13-1	Trichlorotrifluoroethane	5.00	U

Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/10-05-96A.b/BB7360701007.d
Lab Smp Id: D96-10809-4MSD Client Smp ID: MATRIX SPIKE DUP
Inj Date : 05-OCT-1996 16:17 Autotune Date: 06-Aug-96 17:28
Operator : MICHELLE Inst ID: its6.i
Smp Info : D96-10809-4MSD
Misc Info : MATRIX SPIKE DUP
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle Quant Type: ISTD
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: 8240.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	1 Dichlorodifluoromethane	85.00	1.375	1.277	(0.312)	133577	17.4	17.4
	2 Chloromethane	50.00	1.546	1.432	(0.351)	101414	28.2	28.2
	3 Vinyl chloride	62.00	1.644	1.530	(0.373)	184553	34.0	34.0
	4 Bromomethane	94.00	1.954	1.824	(0.443)	181632	45.3	45.3
	5 Chloroethane	64.00	2.052	1.913	(0.465)	118244	50.9	50.9
	6 1,1-Dichloroethene	96.00	2.762	2.599	(0.626)	218345	35.4	35.4
	9 Carbon disulfide	76.00	2.942	2.779	(0.667)	586642	36.3	36.3
	10 Methylene chloride	84.00	3.179	3.023	(0.721)	263458	42.6	42.6
	11 trans-1,2-Dichloroethene	96.00	3.415	3.244	(0.774)	261851	36.8	36.8
	13 1,1-Dichloroethane	63.00	3.750	3.587	(0.850)	504520	39.3	39.3
	14 Vinyl acetate	43.00	3.799	3.636	(0.730)	417093	45.8	45.8(a)
	15 cis-1,2-Dichloroethene	96.00	4.224	4.052	(0.957)	300185	37.0	37.0
	16 2-Butanone	72.00	4.224	4.068	(0.811)	17866	39.2	39.2(a)
*	17 Bromochloromethane	128.00	4.412	4.248	(1.000)	285026	50.0	
	18 Chloroform	83.00	4.477	4.305	(1.015)	636831	38.0	38.0
	19 1,1,1-Trichloroethane	97.00	4.624	4.452	(0.888)	547008	42.0	42.0
	20 Carbon tetrachloride	117.00	4.624	4.591	(0.888)	69685	5.35	5.35
$	21 1,2-Dichloroethane-d4 (SS)	65.00	4.861	4.705	(1.102)	414013	47.4	47.4
	22 Benzene	78.00	4.910	4.754	(0.943)	654712	43.8	43.8
	23 1,2-Dichloroethane	62.00	4.616	4.763	(1.046)	36628	3.85	3.85(aQ)
*	24 1,4-Difluorobenzene	114.00	5.205	5.049	(1.000)	1052485	50.0	
	25 Trichloroethene	130.00	5.417	5.261	(1.041)	353030	44.1	44.1
	26 1,2-Dichloropropane	63.00	5.597	5.433	(1.075)	315741	45.3	45.3
	27 2-Chloroethyl vinyl ether	63.00	5.597	5.433	(1.075)	315741	46.1	46.1
	28 Bromodichloromethane	83.00	5.818	5.661	(1.118)	571354	44.0	44.0
	29 cis-1,3-Dichloropropene	75.00	6.177	6.021	(1.187)	387707	42.1	42.1
	30 4-Methyl-2-pentanone	43.00	6.283	6.135	(0.824)	191798	46.3	46.3(a)
$	31 Toluene-d8 (SS)	98.00	6.398	6.249	(0.839)	889692	54.0	54.0
	32 Toluene	92.00	6.447	6.307	(0.846)	400346	42.9	42.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
33 trans-1,3-Dichloropropene	75.00	6.177	6.021	(1.187)	387707	42.6	42.6
34 1,1,2-Trichloroethane	97.00	6.791	6.634	(1.305)	277450	44.5	44.5
35 Tetrachloroethene	164.00	6.922	6.781	(0.908)	300048	42.3	42.3
36 2-Hexanone	43.00	6.979	6.838	(0.915)	105328	44.7	44.7(a)
37 Chlorodibromomethane	129.00	7.134	6.985	(1.371)	481561	44.7	44.7
* 38 Chlorobenzene-d5	117.00	7.624	7.483	(1.000)	656778	50.0	
39 Chlorobenzene	112.00	7.657	7.508	(1.004)	520008	42.4	42.4
40 Ethylbenzene	106.00	7.739	7.589	(1.015)	169027	38.2	38.2
41 m,p-Xylene	106.00	7.837	7.696	(1.028)	364261	67.8	67.8(H)
42 o-Xylene	106.00	8.189	8.055	(1.074)	174039	34.2	34.2
43 Styrene	104.00	8.205	8.063	(1.076)	310250	34.8	34.8
44 Bromoform	173.00	8.393	8.243	(1.101)	341899	45.5	45.5
$ 45 Bromofluorobenzene (SS)	95.00	8.663	8.529	(1.136)	371342	43.7	43.7
46 1,1,2,2-Tetrachloroethane	83.00	8.786	8.643	(1.152)	365434	49.8	49.8
47 1,3-Dichlorobenzene	146.00	9.675	9.541	(1.269)	243297	32.9	32.9
48 1,4-Dichlorobenzene	146.00	9.749	9.606	(1.279)	318551	35.9	35.9(H)
49 1,2-Dichlorobenzene	146.00	10.108	9.965	(1.326)	254789	36.3	36.3

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem1/its6.i/10-05-96A.b/BB7360701007.d
Lab Smp Id: D96-10809-4MSD Client Smp ID: MATRIX SPIKE DUP
Inj Date : 05-OCT-1996 16:17 Autotune Date: 06-Aug-96 17:28:4
Operator : MICHELLE Inst ID: its6.i
Smp Info : D96-10809-4MSD
Misc Info : MATRIX SPIKE DUP
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: 8240.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7360701007.d
Lab Smp Id: D96-10809-4MSD
Analysis Type: VOA
Quant Type: ISTD
Operator: MICHELLE
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: MATRIX SPIKE DUP

Calibration Date: 10/05/96
Calibration Time: 1441
Client Smp ID: MATRIX SPIKE DU
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	251462	125731	502924	285026	13.35
24 1,4-Difluorobenzene	959044	479522	1918088	1052485	9.74
38 Chlorobenzene-d5	612295	306148	1224590	656778	7.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.41	3.91	4.91	4.41	0.01
24 1,4-Difluorobenzene	5.20	4.70	5.70	5.20	0.01
38 Chlorobenzene-d5	7.62	7.12	8.12	7.62	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-4MSD
Level: LOW
Data Type: MS DATA
SpikeList File: liquidqc.spk
Client SDG: 10-05-96A
Fraction: VOA
Client Smp ID: MATRIX SPIKE DUP
Operator: MICHELLE
SampleType: MSD
Quant Type: ISTD
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: MATRIX SPIKE DUP

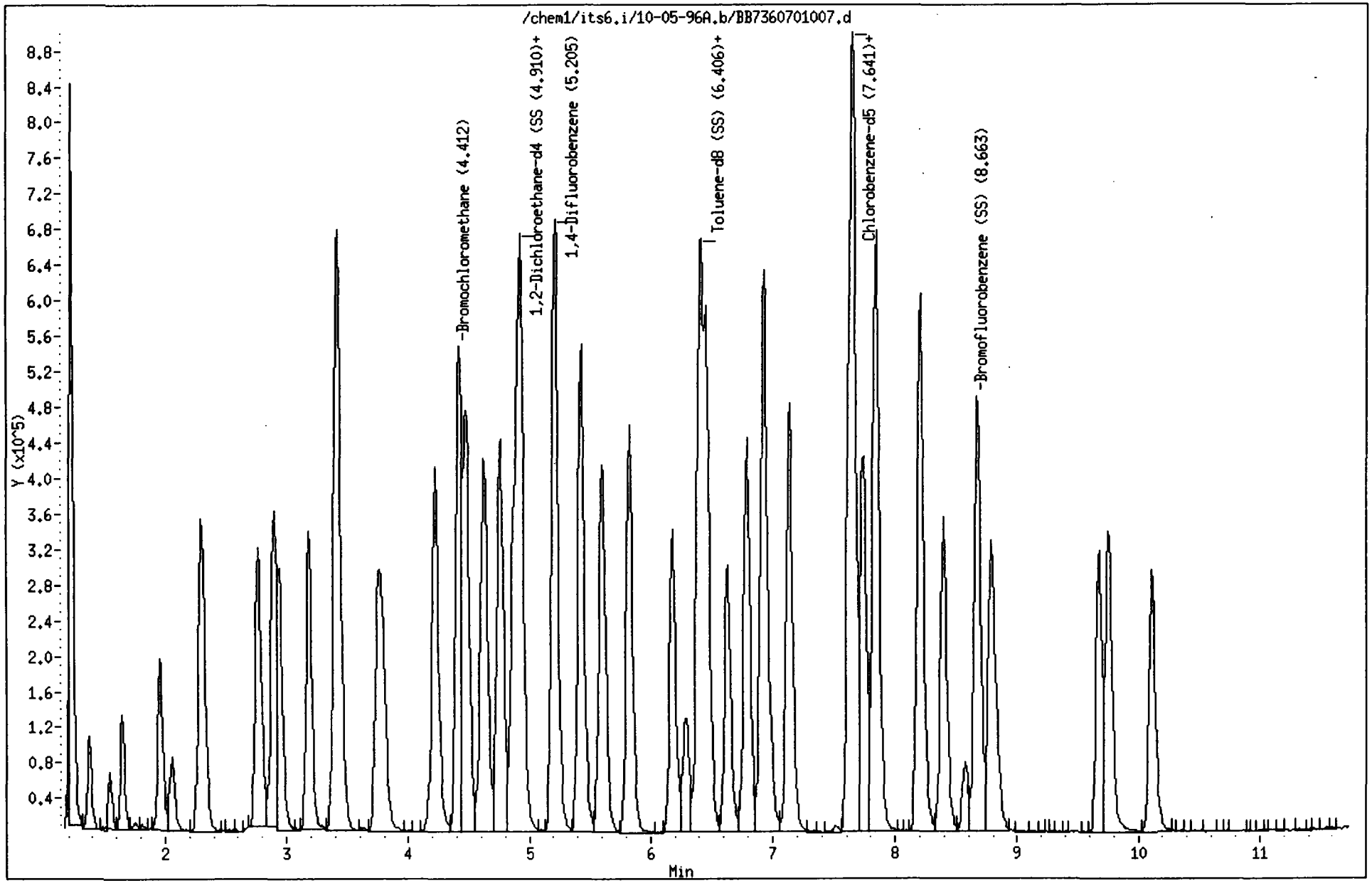
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
6 1,1-Dichloroethene	50.0	35.4	70.82	55-130
25 Trichloroethene	50.0	44.1	88.20	60-140
22 Benzene	50.0	43.8	87.67	65-135
32 Toluene	50.0	42.9	85.76	60-145
39 Chlorobenzene	50.0	42.4	84.85	75-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 21 1,2-Dichloroethane	50.0	47.4	94.86	76-115
$ 31 Toluene-d8 (SS)	50.0	54.0	108.06	88-110
$ 45 Bromofluorobenzene	50.0	43.7	87.38	86-115

Data File: /chem1/its6.i/10-05-96A.b/BB7360701007.d
Date : 05-OCT-1996 16:17
Client ID: MATRIX SPIKE DUP
Sample Info: D96-10809-4MSD
Purge Volume: 5.0
Column phase: 2.00

Instrument: its6.i

Operator: MICHELLE
Column diameter: 0.53



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

METHOD BLKBS

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: 8240 LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7360401004

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	30.1	
74-83-9	Bromomethane	47.1	
75-01-4	Vinyl chloride	35.4	
75-00-3	Chloroethane	54.4	
75-09-2	Methylene chloride	47.1	
67-64-1	Acetone	100	U
75-15-0	Carbon disulfide	39.0	
75-35-4	1,1-Dichloroethene	38.0	
156-60-5	trans-1,2-Dichloroethene	40.5	
75-34-3	1,1-Dichloroethane	42.7	
107-06-2	1,2-Dichloroethane	4.16	J
67-66-3	Chloroform	41.3	
78-93-3	2-Butanone	40.9	J
71-55-6	1,1,1-Trichloroethane	43.4	
56-23-5	Carbon tetrachloride	5.10	
108-05-4	Vinyl acetate	43.1	J
75-27-4	Bromodichloromethane	45.4	
78-87-5	1,2-Dichloropropane	46.4	
10061-01-5	cis-1,3-Dichloropropene	45.3	
79-01-6	Trichloroethene	46.3	
71-43-2	Benzene	46.0	
10061-02-6	trans-1,3-Dichloropropene	45.8	
79-00-5	1,1,2-Trichloroethane	45.0	
110-75-8	2-Chloroethyl vinyl ether	47.2	
124-48-1	Chlorodibromomethane	45.7	
75-25-2	Bromoform	44.0	
108-10-1	4-Methyl-2-pentanone	25.9	J
79-34-5	1,1,2,2-Tetrachloroethane	44.7	
127-18-4	Tetrachloroethene	43.1	
591-78-6	2-Hexanone	43.9	J
108-88-3	Toluene	43.6	
108-90-7	Chlorobenzene	44.9	
100-41-4	Ethylbenzene	43.4	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

METHOD BLKBS

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: 8240 LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7360401004

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	47.3	
108-38-3	m,p-Xylene	95.3	
156-59-2	cis-1,2-Dichloroethene	39.2	
95-47-6	o-Xylene	43.4	
541-73-1	1,3-Dichlorobenzene	46.9	
106-46-7	1,4-Dichlorobenzene	44.3	
95-50-1	1,2-Dichlorobenzene	45.9	
75-71-8	Dichlorodifluoromethane	18.3	
76-13-1	Trichlorotrifluoroethane	5.00	U

Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/10-05-96A.b/BB7360401004.d
Lab Smp Id: 8240 LCS Client Smp ID: 8240 LCS
Inj Date : 05-OCT-1996 15:20 Autotune Date: 06-Aug-96 17:28
Operator : MICHELLE Inst ID: its6.i
Smp Info : 8240 LCS
Misc Info : 8240 LCS
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle Quant Type: ISTD
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: 8240.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	1 Dichlorodifluoromethane	85.00	1.375	1.277	(0.312)	132163	18.3	18.3
	2 Chloromethane	50.00	1.538	1.432	(0.349)	101438	30.1	30.1
	3 Vinyl chloride	62.00	1.644	1.530	(0.373)	179852	35.4	35.4
	4 Bromomethane	94.00	1.954	1.824	(0.443)	176766	47.1	47.1
	5 Chloroethane	64.00	2.052	1.913	(0.465)	116815	54.4	54.4
	6 1,1-Dichloroethene	96.00	2.762	2.599	(0.626)	219348	38.0	38.0
	9 Carbon disulfide	76.00	2.941	2.779	(0.667)	590071	39.0	39.0
	10 Methylene chloride	84.00	3.178	3.023	(0.721)	273078	47.1	47.1
	11 trans-1,2-Dichloroethene	96.00	3.407	3.244	(0.772)	269971	40.5	40.5
	13 1,1-Dichloroethane	63.00	3.750	3.587	(0.850)	512661	42.7	42.7
	14 Vinyl acetate	43.00	3.791	3.636	(0.728)	383008	43.1	43.1(a)
	15 cis-1,2-Dichloroethene	96.00	4.215	4.052	(0.956)	298317	39.2	39.2
	16 2-Butanone	72.00	4.223	4.068	(0.811)	18215	40.9	40.9(a)
*	17 Bromochloromethane	128.00	4.411	4.248	(1.000)	266903	50.0	
	18 Chloroform	83.00	4.476	4.305	(1.015)	648671	41.3	41.3
	19 1,1,1-Trichloroethane	97.00	4.615	4.452	(0.887)	551806	43.4	43.4
	20 Carbon tetrachloride	117.00	4.624	4.591	(0.888)	64782	5.10	5.10
$	21 1,2-Dichloroethane-d4 (SS)	65.00	4.861	4.705	(1.102)	407661	49.9	49.9
	22 Benzene	78.00	4.910	4.754	(0.943)	670554	46.0	46.0
	23 1,2-Dichloroethane	62.00	4.615	4.763	(1.046)	37052	4.16	4.16(aQ)
*	24 1,4-Difluorobenzene	114.00	5.204	5.049	(1.000)	1027704	50.0	
	25 Trichloroethene	130.00	5.417	5.261	(1.041)	362217	46.3	46.3
	26 1,2-Dichloropropane	63.00	5.597	5.433	(1.075)	315723	46.4	46.4
	27 2-Chloroethyl vinyl ether	63.00	5.597	5.433	(1.075)	315723	47.2	47.2
	28 Bromodichloromethane	83.00	5.817	5.661	(1.118)	575537	45.4	45.4
	29 cis-1,3-Dichloropropene	75.00	6.177	6.021	(1.187)	407114	45.3	45.3
	30 4-Methyl-2-pentanone	43.00	6.038	6.135	(0.792)	110512	25.9	25.9(a)
$	31 Toluene-d8 (SS)	98.00	6.398	6.249	(0.839)	879502	51.9	51.9
	32 Toluene	92.00	6.455	6.307	(0.847)	419207	43.6	43.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
33 trans-1,3-Dichloropropene	75.00	6.177	6.021	(1.187)	407114	45.8	45.8
34 1,1,2-Trichloroethane	97.00	6.782	6.634	(1.303)	274317	45.0	45.0
35 Tetrachloroethene	164.00	6.921	6.781	(0.908)	314550	43.1	43.1
36 2-Hexanone	43.00	6.979	6.838	(0.915)	106481	43.9	43.9(a)
37 Chlorodibromomethane	129.00	7.126	6.985	(1.369)	480886	45.7	45.7
* 38 Chlorobenzene-d5	117.00	7.624	7.483	(1.000)	675925	50.0	
39 Chlorobenzene	112.00	7.648	7.508	(1.003)	566241	44.9	44.9
40 Ethylbenzene	106.00	7.730	7.589	(1.014)	197431	43.4	43.4(Q)
41 m,p-Xylene	106.00	7.837	7.696	(1.028)	526853	95.3	95.3(QH)
42 o-Xylene	106.00	8.180	8.055	(1.073)	227096	43.4	43.4
43 Styrene	104.00	8.205	8.063	(1.076)	434442	47.3	47.3
44 Bromoform	173.00	8.385	8.243	(1.100)	340484	44.0	44.0
$ 45 Bromofluorobenzene (SS)	95.00	8.671	8.529	(1.137)	451660	51.6	51.6
46 1,1,2,2-Tetrachloroethane	83.00	8.777	8.643	(1.151)	337471	44.7	44.7
47 1,3-Dichlorobenzene	146.00	9.675	9.541	(1.269)	356559	46.9	46.9
48 1,4-Dichlorobenzene	146.00	9.749	9.606	(1.279)	405119	44.3	44.3(H)
49 1,2-Dichlorobenzene	146.00	10.108	9.965	(1.326)	332161	45.9	45.9

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem1/its6.i/10-05-96A.b/BB7360401004.d
Lab Smp Id: 8240 LCS
Client Smp ID: 8240 LCS
Inj Date : 05-OCT-1996 15:20
Autotune Date: 06-Aug-96 17:28:4
Operator : MICHELLE
Inst ID: its6.i
Smp Info : 8240 LCS
Misc Info : 8240 LCS
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle
Cal Date : 19-SEP-1996 19:05
Cal File: BB7252001020.d
Als bottle: 4
QC Sample: LCS
Dil Factor: 1.000
Target Version: 3.10
Integrator: HP RTE
Compound Sublist: 8240.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7360401004.d
Lab Smp Id: 8240 LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: MICHELLE
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: 8240 LCS

Calibration Date: 10/05/96
Calibration Time: 1441
Client Smp ID: 8240 LCS
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	251462	125731	502924	266903	6.14
24 1,4-Difluorobenzene	959044	479522	1918088	1027704	7.16
38 Chlorobenzene-d5	612295	306148	1224590	675925	10.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.41	3.91	4.91	4.41	0.00
24 1,4-Difluorobenzene	5.20	4.70	5.70	5.20	0.00
38 Chlorobenzene-d5	7.62	7.12	8.12	7.62	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 8240 LCS
Level: LOW
Data Type: MS DATA
SpikeList File: liquidqc.spk
Client SDG: 10-05-96A
Fraction: VOA
Client Smp ID: 8240 LCS
Operator: MICHELLE
SampleType: LCS
Quant Type: ISTD
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: 8240 LCS

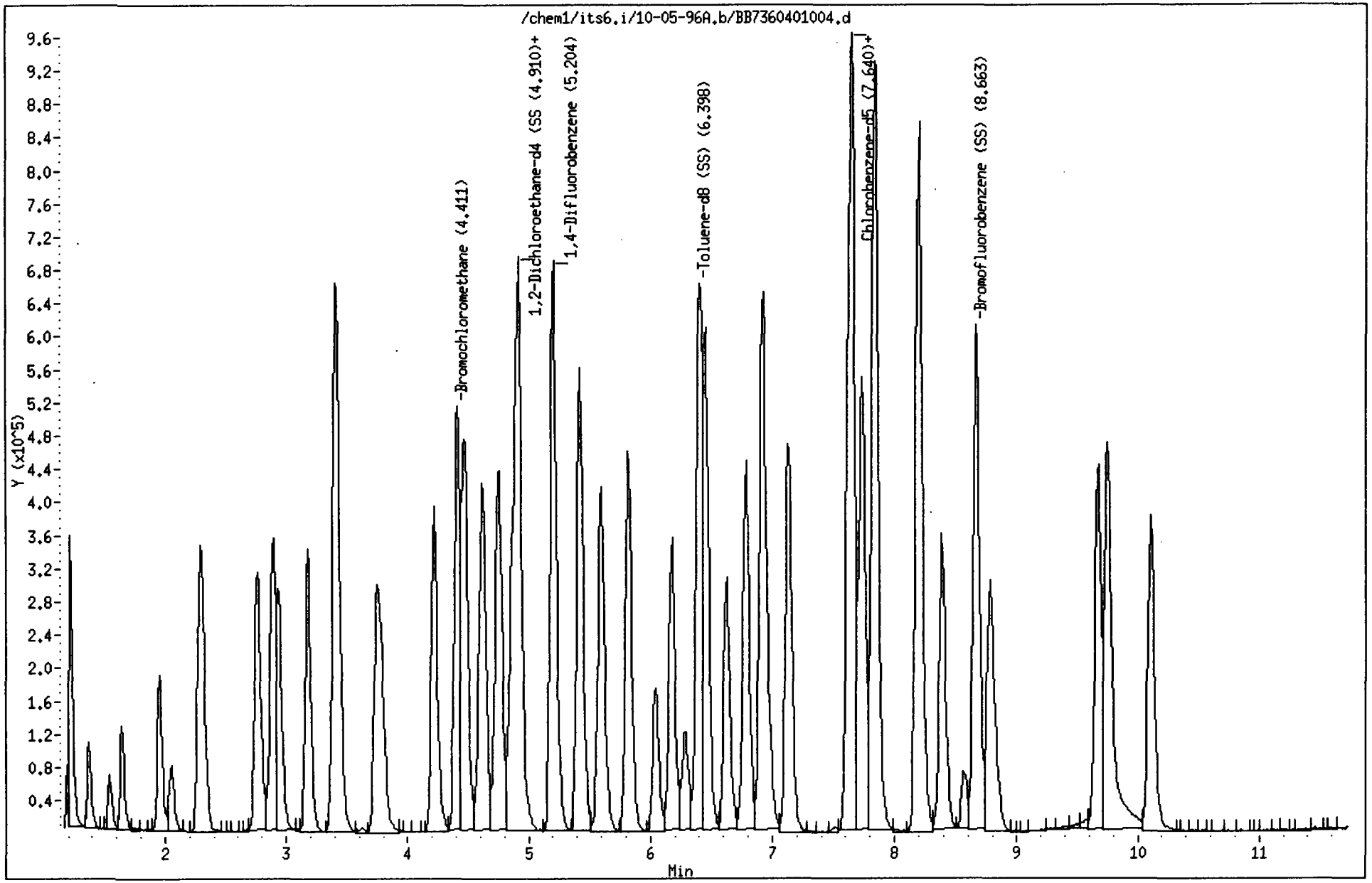
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
6 1,1-Dichloroethene	50.0	38.0	75.98	55-130
25 Trichloroethene	50.0	46.3	92.68	60-140
22 Benzene	50.0	46.0	91.96	65-135
32 Toluene	50.0	43.6	87.25	60-145
39 Chlorobenzene	50.0	44.9	89.77	75-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 21 1,2-Dichloroethane	50.0	49.9	99.74	76-115
$ 31 Toluene-d8 (SS)	50.0	51.9	103.80	88-110
$ 45 Bromofluorobenzene	50.0	51.6	103.27	86-115

Data File /chem1/its6.i/10-05-96A.b/BB7360401004.d
Date : 05-OCT-1996 15:20
Client ID: 8240 LCS
Sample Info: 8240 LCS
Purge Volume: 5.0
Column phase: 2.00

Instrument: its6.i

Operator: MICHELLE
Column diameter: 0.53



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

METHOD BLKBSD

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: 8240 LCS DUP

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7360501005

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	34.3	
74-83-9	Bromomethane	54.4	
75-01-4	Vinyl chloride	41.1	
75-00-3	Chloroethane	65.9	
75-09-2	Methylene chloride	55.0	
67-64-1	Acetone	50.3	J
75-15-0	Carbon disulfide	45.4	
75-35-4	1,1-Dichloroethene	45.2	
156-60-5	trans-1,2-Dichloroethene	46.3	
75-34-3	1,1-Dichloroethane	50.8	
107-06-2	1,2-Dichloroethane	5.02	
67-66-3	Chloroform	49.2	
78-93-3	2-Butanone	55.3	J
71-55-6	1,1,1-Trichloroethane	52.2	
56-23-5	Carbon tetrachloride	6.68	
108-05-4	Vinyl acetate	55.4	
75-27-4	Bromodichloromethane	56.7	
78-87-5	1,2-Dichloropropane	58.0	
10061-01-5	cis-1,3-Dichloropropene	56.6	
79-01-6	Trichloroethene	55.6	
71-43-2	Benzene	56.1	
10061-02-6	trans-1,3-Dichloropropene	57.2	
79-00-5	1,1,2-Trichloroethane	58.1	
110-75-8	2-Chloroethyl vinyl ether	58.9	
124-48-1	Chlorodibromomethane	59.6	
75-25-2	Bromoform	56.3	
108-10-1	4-Methyl-2-pentanone	34.8	J
79-34-5	1,1,2,2-Tetrachloroethane	58.3	
127-18-4	Tetrachloroethene	52.6	
591-78-6	2-Hexanone	60.5	
108-88-3	Toluene	55.2	
108-90-7	Chlorobenzene	55.6	
100-41-4	Ethylbenzene	58.9	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

METHOD BLKBSD

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8240 SDG No.: V10809

Matrix: (soil/water) WATER Lab Sample ID: 8240 LCS DUP

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BB7360501005

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

% Moisture: not dec. _____ Date Analyzed: 10/05/96

GC Column: 2.00 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	59.5	
108-38-3	m,p-Xylene	115	
156-59-2	cis-1,2-Dichloroethene	47.2	
95-47-6	o-Xylene	58.1	
541-73-1	1,3-Dichlorobenzene	55.5	
106-46-7	1,4-Dichlorobenzene	57.2	
95-50-1	1,2-Dichlorobenzene	56.5	
75-71-8	Dichlorodifluoromethane	21.0	
76-13-1	Trichlorotrifluoroethane	5.00	U

Inchcape Testing Services - Environmental Laboratories

VOLATILE REPORT SW-846 Method 8240

Data file : /chem1/its6.i/10-05-96A.b/BB7360501005.d
Lab Smp Id: 8240 LCS DUP — Client Smp ID: 8240 LCS DUP
Inj Date : 05-OCT-1996 15:39 — Autotune Date: 06-Aug-96 17:28
Operator : MICHELLE — Inst ID: its6.i
Smp Info : 8240 LCS DUP
Misc Info : 8240 LCS DUP
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle — Quant Type: ISTD
Cal Date : 19-SEP-1996 19:05 — Cal File: BB7252001020.d
Als bottle: 5 — QC Sample: LCS DUP
Dil Factor: 1.000
Integrator: HP RTE — Compound Sublist: 8240.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	1 Dichlorodifluoromethane	85.00	1.375	1.277	(0.312)	155636	21.0	21.0
	2 Chloromethane	50.00	1.546	1.432	(0.351)	118816	34.3	34.3
	3 Vinyl chloride	62.00	1.644	1.530	(0.373)	214698	41.1	41.1
	4 Bromomethane	94.00	1.954	1.824	(0.444)	209926	54.4	54.4
	5 Chloroethane	64.00	2.044	1.913	(0.464)	140773	65.9	65.9
	6 1,1-Dichloroethene	96.00	2.754	2.599	(0.625)	268345	45.2	45.2
	8 Acetone	43.00	2.819	2.672	(0.640)	54308	50.3	50.3(aM)
	9 Carbon disulfide	76.00	2.942	2.779	(0.668)	706060	45.4	45.4
	10 Methylene chloride	84.00	3.179	3.023	(0.722)	327916	55.0	55.0
	11 trans-1,2-Dichloroethene	96.00	3.407	3.244	(0.774)	317433	46.3	46.3
	13 1,1-Dichloroethane	63.00	3.742	3.587	(0.850)	627230	50.8	50.8
	14 Vinyl acetate	43.00	3.791	3.636	(0.730)	491358	55.4	55.4
	15 cis-1,2-Dichloroethene	96.00	4.215	4.052	(0.957)	368881	47.2	47.2
	16 2-Butanone	72.00	4.224	4.068	(0.813)	24566	55.3	55.3(a)
*	17 Bromochloromethane	128.00	4.404	4.248	(1.000)	274466	50.0	
	18 Chloroform	83.00	4.469	4.305	(1.015)	795063	49.2	49.2
	19 1,1,1-Trichloroethane	97.00	4.608	4.452	(0.887)	662519	52.2	52.2
	20 Carbon tetrachloride	117.00	4.616	4.591	(0.888)	84690	6.68	6.68
$	21 1,2-Dichloroethane-d4 (SS)	65.00	4.861	4.705	(1.104)	406804	48.4	48.4
	22 Benzene	78.00	4.902	4.754	(0.943)	816118	56.1	56.1
	23 1,2-Dichloroethane	62.00	4.616	4.763	(1.048)	45976	5.02	5.02(Q)
*	24 1,4-Difluorobenzene	114.00	5.197	5.049	(1.000)	1024558	50.0	
	25 Trichloroethene	130.00	5.426	5.261	(1.044)	433617	55.6	55.6
	26 1,2-Dichloropropane	63.00	5.589	5.433	(1.076)	393062	58.0	58.0
	27 2-Chloroethyl vinyl ether	63.00	5.589	5.433	(1.076)	393062	58.9	58.9
	28 Bromodichloromethane	83.00	5.810	5.661	(1.118)	717823	56.7	56.7
	29 cis-1,3-Dichloropropene	75.00	6.169	6.021	(1.187)	506913	56.6	56.6
	30 4-Methyl-2-pentanone	43.00	6.038	6.135	(0.792)	147106	34.8	34.8(a)
$	31 Toluene-d8 (SS)	98.00	6.390	6.249	(0.838)	874224	52.0	52.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
32 Toluene	92.00	6.448	6.307	(0.846)	525843	55.2	55.2
33 trans-1,3-Dichloropropene	75.00	6.169	6.021	(1.187)	506913	57.2	57.2
34 1,1,2-Trichloroethane	97.00	6.783	6.634	(1.305)	352436	58.1	58.1
35 Tetrachloroethene	164.00	6.922	6.781	(0.908)	380678	52.6	52.6
36 2-Hexanone	43.00	6.971	6.838	(0.914)	145647	60.5	60.5
37 Chlorodibromomethane	129.00	7.135	6.985	(1.373)	624184	59.6	59.6
* 38 Chlorobenzene-d5	117.00	7.625	7.483	(1.000)	670709	50.0	
39 Chlorobenzene	112.00	7.650	7.508	(1.003)	696221	55.6	55.6
40 Ethylbenzene	106.00	7.732	7.589	(1.014)	266075	58.9	58.9
41 m,p-Xylene	106.00	7.830	7.696	(1.027)	629982	115	115(H)
42 o-Xylene	106.00	8.189	8.055	(1.074)	301727	58.1	58.1
43 Styrene	104.00	8.198	8.063	(1.075)	541885	59.5	59.5
44 Bromoform	173.00	8.394	8.243	(1.101)	431775	56.3	56.3
$ 45 Bromofluorobenzene (SS)	95.00	8.664	8.529	(1.136)	472687	54.4	54.4
46 1,1,2,2-Tetrachloroethane	83.00	8.779	8.643	(1.151)	436868	58.3	58.3
47 1,3-Dichlorobenzene	146.00	9.668	9.541	(1.268)	418624	55.5	55.5
48 1,4-Dichlorobenzene	146.00	9.750	9.606	(1.279)	519258	57.2	57.2(H)
49 1,2-Dichlorobenzene	146.00	10.101	9.965	(1.325)	405123	56.5	56.5

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem1/its6.i/10-05-96A.b/BB7360501005.d
Lab Smp Id: 8240 LCS DUP Client Smp ID: 8240 LCS DUP
Inj Date : 05-OCT-1996 15:39 Autotune Date: 06-Aug-96 17:28:4
Operator : MICHELLE Inst ID: its6.i
Smp Info : 8240 LCS DUP
Misc Info : 8240 LCS DUP
Comment :
Method : /chem1/its6.i/10-05-96A.b/8240_voa6.m
Meth Date : 07-Oct-1996 09:07 michelle
Cal Date : 19-SEP-1996 19:05 Cal File: BB7252001020.d
Als bottle: 5 QC Sample: LCS DUP
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: 8240.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: its6.i
Lab File ID: BB7360501005.d
Lab Smp Id: 8240 LCS DUP
Analysis Type: VOA
Quant Type: ISTD
Operator: MICHELLE
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: 8240 LCS DUP

Calibration Date: 10/05/96
Calibration Time: 1441
Client Smp ID: 8240 LCS DUP
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	251462	125731	502924	274466	9.15
24 1,4-Difluorobenzene	959044	479522	1918088	1024558	6.83
38 Chlorobenzene-d5	612295	306148	1224590	670709	9.54

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
17 Bromochloromethane	4.41	3.91	4.91	4.40	-0.17
24 1,4-Difluorobenzene	5.20	4.70	5.70	5.20	-0.14
38 Chlorobenzene-d5	7.62	7.12	8.12	7.62	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 8240 LCS DUP
Level: LOW
Data Type: MS DATA
SpikeList File: liquidqc.spk
Client SDG: 10-05-96A
Fraction: VOA
Client Smp ID: 8240 LCS DUP
Operator: MICHELLE
SampleType: LCS DUP
Quant Type: ISTD
Method File: /chem1/its6.i/10-05-96A.b/8240_voa6.m
Misc Info: 8240 LCS DUP

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
6 1,1-Dichloroethene	50.0	45.2	90.39	55-130
25 Trichloroethene	50.0	55.6	111.29	60-140
22 Benzene	50.0	56.1	112.26	65-135
32 Toluene	50.0	55.2	110.30	60-145
39 Chlorobenzene	50.0	55.6	111.24	75-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 21 1,2-Dichloroethane	50.0	48.4	96.79	76-115
$ 31 Toluene-d8 (SS)	50.0	52.0	103.98	88-110
$ 45 Bromofluorobenzene	50.0	54.4	108.92	86-115

Data F[illegible] /chem1/its6.i/10-05-96A.b/BB7360501005.d

Pa[illegible]

Date : 05-OCT-1996 15:39

Client ID: 8240 LCS DUP

Instrument: its6.i

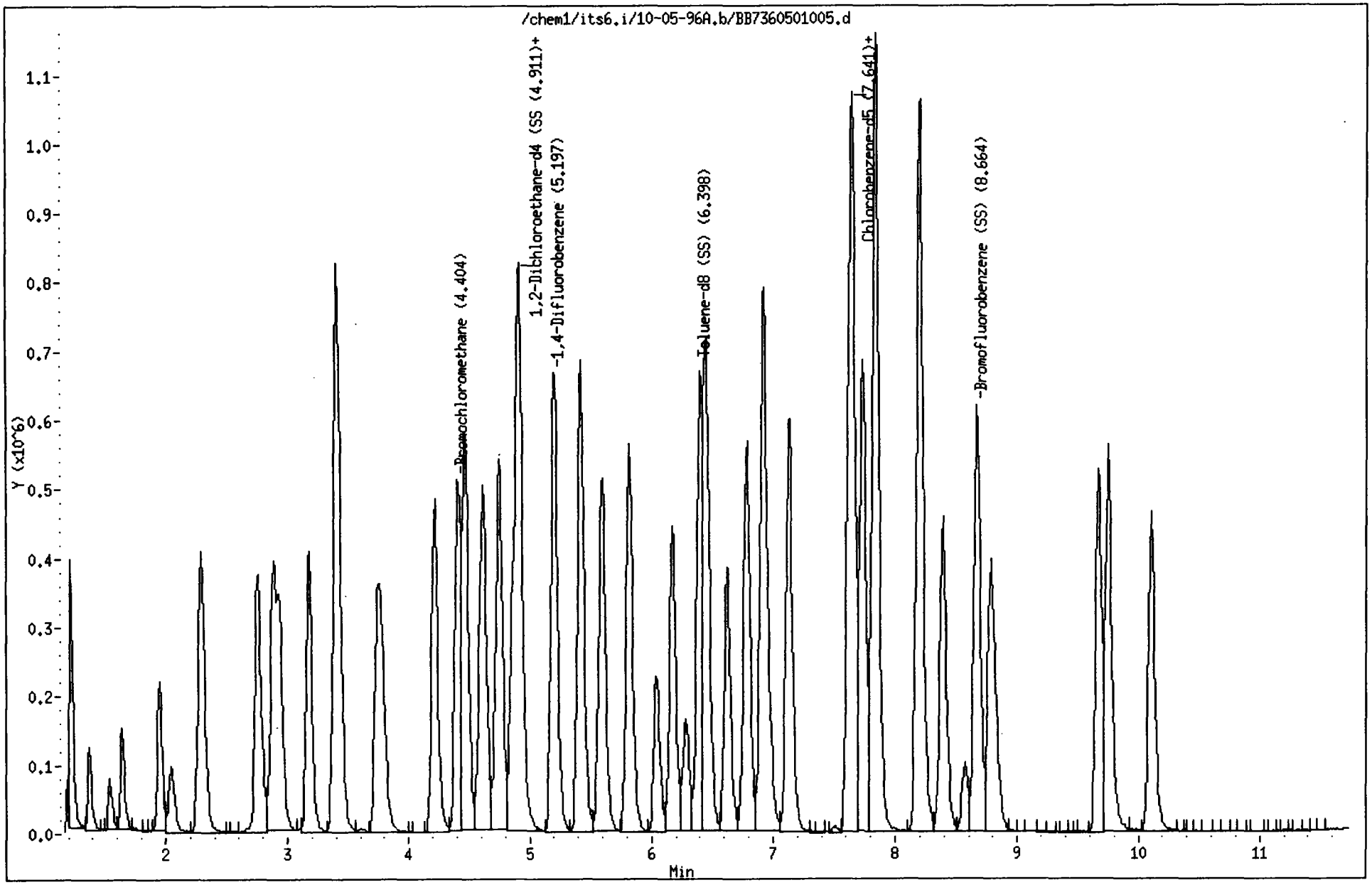
Sample Info: 8240 LCS DUP

Purge Volume: 5.0

Operator: MICHELLE

Column phase: 2.00

Column diameter: 0.53



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ANALYSIS LOGS

SAMPLE INFORMATION SUMMARY

BATCH: /chem1/its6.i/09-19-96.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
BB7250101001.d	19-SEP-96 10:02	BFB	1.00	its6	bfb.m	09-19-96.b
BB7250201002.d	19-SEP-96 10:09	Continuing Cal	1.00	its6	8240_voa6.m	09-19-96.b
BB7250301003.d	19-SEP-96 10:28	Continuing Cal	1.00	its6	8240_voa6.m	09-19-96.b
BB7250401004.d	19-SEP-96 11:00	Unknown	1.00	its6	8240_AFC6.m	09-19-96.b
BB7250501005.d	19-SEP-96 12:40	BFB	1.00	its6	bfb.m	09-19-96.b
BB7250601006.d	19-SEP-1996 12:48	Cal Level 6	1.00	its6	8240_voa6.m	09-19-96.b
BB7250701007.d	19-SEP-96 13:08	Cal Level 5	1.00	its6	8240_voa6.m	09-19-96.b
BB7250801008.d	19-SEP-96 13:27	Cal Level 4	1.00	its6	8240_voa6.m	09-19-96.b
BB7250901009.d	19-SEP-96 13:46	Cal Level 3	1.00	its6	8240_voa6.m	09-19-96.b
BB7250901009A.d	19-SEP-1996 13:46	Unknown	1.00	its6	8240_voa6.m	09-16-96.b
BB7251001010.d	19-SEP-96 14:05	Cal Level 2	1.00	its6	8240_voa6.m	09-19-96.b
BB7251101011.d	19-SEP-96 14:25	Cal Level 1	1.00	its6	8240_voa6.m	09-19-96.b
BB7251201012.d	19-SEP-1996 14:44	Cal Level 5	1.00	its6	8240_voa6.m	09-19-96.b
BB7251301013.d	19-SEP-96 15:22	Cal Level 5	1.00	its6	8240_voa6.m	09-19-96.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
BB7250101001.d	LIQUID	VOA	8240 TUNE	AA710-98-2	BFB 50 NG	09-19-96
BB7250201002.d	LIQUID	VOA	D96-3	09-19-96		09-19-96
BB7250301003.d	SOLID	VOA	D96-3	09-19-96		09-19-96
BB7250401004.d	SOLID	VOA	D96-3	09-19-96		09-19-96
BB7250501005.d	LIQUID	VOA	8240 TUNE	09-19-96	BFB 50 NG	09-19-96
BB7250601006.d	LIQUID	VOA	D96-3	09-19-96		09-19-96
BB7250701007.d	LIQUID	VOA	D96-3	09-19-96		09-19-96
BB7250801008.d	LIQUID	VOA	D96-3	09-19-96		09-19-96
BB7250901009.d	SOLID	VOA	D96-3	09-19-96		09-19-96
BB7250901009A.d	SOLID	VOA	D96-3	09-19-96		09-19-96
BB7251001010.d	SOLID	VOA	D96-3	09-19-96		09-19-96
BB7251101011.d	SOLID	VOA	D96-3	09-19-96		09-19-96
BB7251201012.d	SOLID	VOA	D96-3	09-19-96		09-19-96
BB7251301013.d	SOLID	VOA	D96-3	09-19-96		09-19-96

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
BB7250101001.d	all.sub		585	1058994	314	1058969
BB7250201002.d	8240.sub	liquidqc.spk	366176	1058994	1052408	1058968
BB7250301003.d	8240.sub	liquidqc.spk	366176	1058994	1052408	1058968
BB7250401004.d	8240.sub	liquidqc.spk	366176	21020492	1050202	1058967
BB7250501005.d	all.sub		585	1059052	314	1058969
BB7250601006.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968
BB7250701007.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968
BB7250801008.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968
BB7250901009.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968
BB7250901009A.d	8240.sub	liquidqc.spk	1059067	1059052	1052408	21020470
BB7251001010.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968
BB7251101011.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968
BB7251201012.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968
BB7251301013.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968

SAMPLE INFORMATION SUMMARY

BATCH: /chem1/its6.i/09-19-96.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
BB7252001020.d	19-SEP-1996 19:05	Cal Level 2	1.00	its6	8240_voa6.m	09-19-96.b
BB7252101021.d	19-SEP-1996 19:17	Cal Level 3	1.00	its6	8240_voa6.m	09-19-96.b
BB7252201022.d	19-SEP-1996 19:36	Cal Level 4	1.00	its6	8240_voa6.m	09-19-96.b
BB7252301023.d	19-SEP-1996 19:56	Cal Level 5	1.00	its6	8240_voa6.m	09-19-96.b
BB7252401024.d	19-SEP-1996 20:15	Cal Level 6	1.00	its6	8240_voa6.m	09-19-96.b
BB7252501025.d	19-SEP-1996 20:35	Cal Level 1	1.00	its6	8240_voa6.m	09-19-96.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
BB7252001020.d	SOLID	VOA	20 PPB CAL STD	09-19-96	8240 INITIAL CAL	09-19-96
BB7252101021.d	SOLID	VOA	50 PPB CAL STD	09-19-96	8240 INITIAL CAL	09-19-96
BB7252201022.d	SOLID	VOA	100 PPB CAL STD	09-19-96	8240 INITIAL CAL	09-19-96
BB7252301023.d	SOLID	VOA	200 PPB CAL STD	09-19-96	8240 INITIAL CAL	09-19-96
BB7252401024.d	SOLID	VOA	300 PPB CAL STD	09-19-96	8240 INITIAL CAL	09-19-96
BB7252501025.d	SOLID	VOA	10 PPB CAL STD	09-19-96	8240 INITIAL CAL	09-19-96

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
BB7252001020.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968
BB7252101021.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968
BB7252201022.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968
BB7252301023.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968
BB7252401024.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968
BB7252501025.d	8240.sub	liquidqc.spk	366176	1059052	1059064	1058968

SAMPLE INFORMATION SUMMARY

BATCH: /chem1/its6.i/10-05-96A.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
BB7360101001.d	05-OCT-96 14:31	BFB	1.00	its6	bfb.m	10-05-96A.b
BB7360201002.d	05-OCT-1996 14:41	Continuing Cal	1.00	its6	8240_voa6.m	10-05-96A.b
BB7360301003.d	05-OCT-1996 15:01	BLANK	1.00	its6	8240_voa6.m	10-05-96A.b
BB7360401004.d	05-OCT-1996 15:20	LCS	1.00	its6	8240_voa6.m	10-05-96A.b
BB7360501005.d	05-OCT-1996 15:39	LCS DUP	1.00	its6	8240_voa6.m	10-05-96A.b
BB7360601006.d	05-OCT-1996 15:58	MS	1.00	its6	8240_voa6.m	10-05-96A.b
BB7360701007.d	05-OCT-1996 16:17	MSD	1.00	its6	8240_voa6.m	10-05-96A.b
BB7360801008.d	05-OCT-1996 16:36	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b
BB7360901009.d	05-OCT-1996 16:55	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b
BB7361001010.d	05-OCT-1996 17:14	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b
BB7361101011.d	05-OCT-1996 17:33	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b
BB7361201012.d	05-OCT-1996 17:52	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b
BB7361301013.d	05-OCT-1996 18:11	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b
BB7361401014.d	05-OCT-1996 18:30	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
BB7360101001.d	LIQUID	VOA	8240 TUNE	10-05-96A	BFB 50 NG	10-05-96A
BB7360201002.d	LIQUID	VOA	8240 DAILY STD	AB598-39-6	50 UG/L	10-05-96A
BB7360301003.d	LIQUID	VOA	D96-11030-55 MB	ITS6-842	METHOD BLANK	10-05-96A
BB7360401004.d	LIQUID	VOA	8240 LCS	ITS6-842	8240 LCS	10-05-96A
BB7360501005.d	LIQUID	VOA	8240 LCS DUP	ITS6-842	8240 LCS DUP	10-05-96A
BB7360601006.d	LIQUID	VOA	D96-10809-4MS	ITS6-842	MATRIX SPIKE	10-05-96A
BB7360701007.d	LIQUID	VOA	D96-10809-4MSD	ITS6-842	MATRIX SPIKE DUP	10-05-96A
BB7360801008.d	LIQUID	VOA	D96-10809-1	ITS6-842	AT_KEARNEY 5ML <2	10-05-96A
BB7360901009.d	LIQUID	VOA	D96-10809-2	ITS6-842	AT_KEARNEY 5ML <2	10-05-96A
BB7361001010.d	LIQUID	VOA	D96-10809-3	ITS6-842	AT_KEARNEY 5ML <2	10-05-96A
BB7361101011.d	LIQUID	VOA	D96-10809-4	ITS6-842	AT_KEARNEY 5ML <2	10-05-96A
BB7361201012.d	LIQUID	VOA	D96-10809-5	ITS6-842	AT_KEARNEY 5ML <2	10-05-96A
BB7361301013.d	LIQUID	VOA	D96-10952-12	ITS6-842	GERAGHTY 5ML <2	10-05-96A
BB7361401014.d	LIQUID	VOA	D96-10952-19	ITS6-842	GERAGHTY 5ML <2	10-05-96A

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
BB7360101001.d	all.sub		585	1061324	314	1061321
BB7360201002.d	8240.sub	liquidqc.spk	366176	21020588	1059064	1061327
BB7360301003.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7360401004.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7360501005.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7360601006.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7360701007.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7360801008.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7360901009.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7361001010.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7361101011.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7361201012.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7361301013.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7361401014.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327

SAMPLE INFORMATION SUMMARY

BATCH: /chem1/its6.i/10-05-96A.b

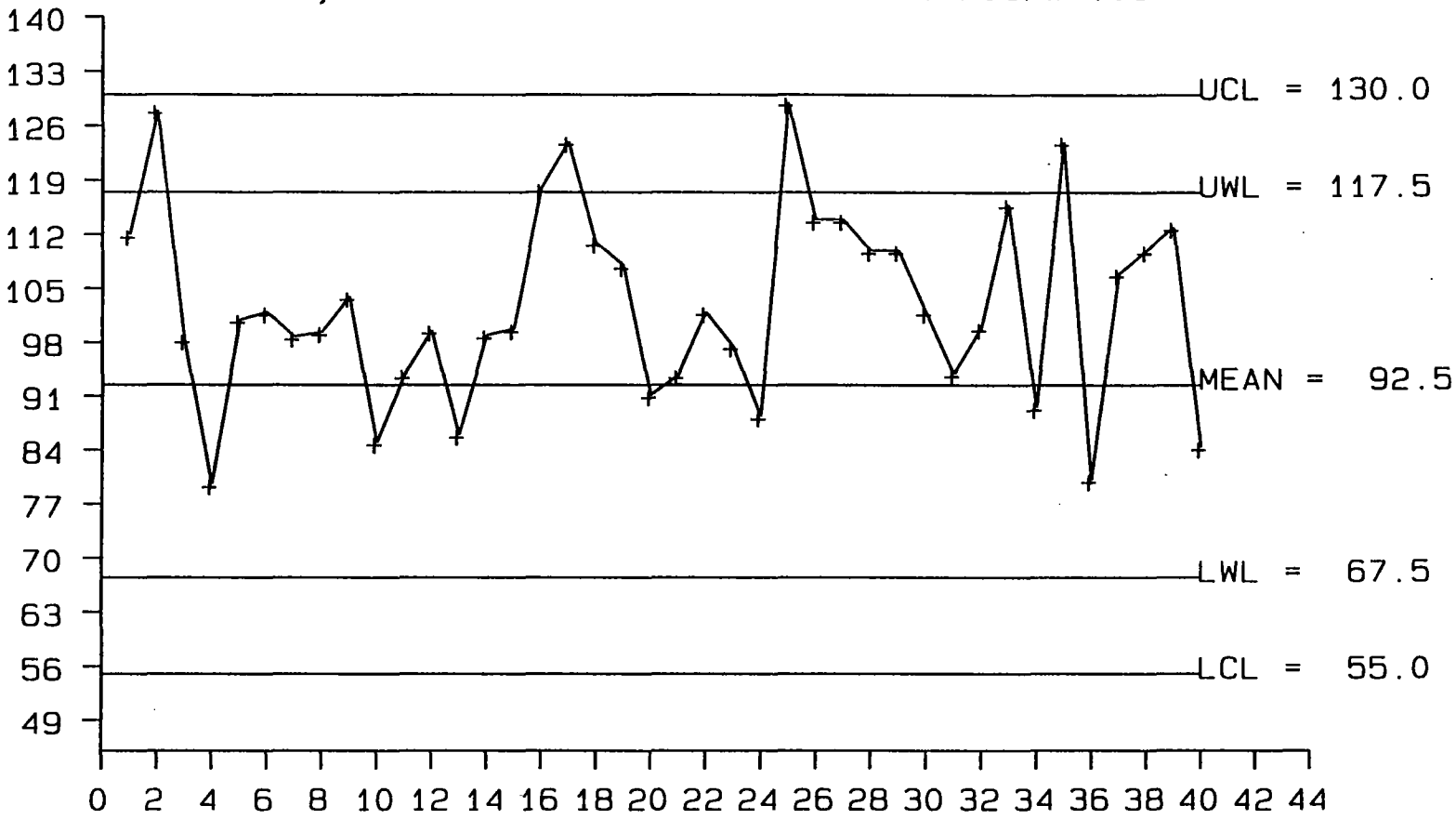
Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
BB7361501015.d	05-OCT-1996 18:49	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b
BB7361601016.d	05-OCT-1996 19:08	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b
BB7361701017.d	05-OCT-1996 19:27	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b
BB7361801018.d	05-OCT-1996 19:47	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b
BB7361901019.d	05-OCT-1996 20:06	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b
BB7362001020.d	05-OCT-1996 20:25	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b
BB7362101021.d	05-OCT-1996 20:44	Unknown	1.00	its6	8240_voa6.m	10-05-96A.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
BB7361501015.d	LIQUID	VOA	D96-10952-20	ITS6-842	GERAGHTY 5ML <2	10-05-96A
BB7361601016.d	LIQUID	VOA	D96-10952-21	ITS6-842	GERAGHTY 5ML <2	10-05-96A
BB7361701017.d	LIQUID	VOA	D96-11030-13	ITS6-842	GERAGHTY 5ML <2	10-05-96A
BB7361801018.d	LIQUID	VOA	D96-11030-26	ITS6-842	GERAGHTY 5ML <2	10-05-96A
BB7361901019.d	LIQUID	VOA	D96-11030-27	ITS6-842	GERAGHTY 5ML <2	10-05-96A
BB7362001020.d	LIQUID	VOA	D96-11030-41	ITS6-842	GERAGHTY 5ML <2	10-05-96A
BB7362101021.d	LIQUID	VOA	D96-11030-53	ITS6-842	GERAGHTY 5ML <2	10-05-96A

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
BB7361501015.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7361601016.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7361701017.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7361801018.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7361901019.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7362001020.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327
BB7362101021.d	8240.sub	liquidqc.spk	366176	1061324	1059064	1061327

CONTROL CHARTS

8240A_L 1, 1-Dichloroethene (LCS RECOVERY)
Produced by GKHORTON on 7-NOV-1996 15: 38: 28.86



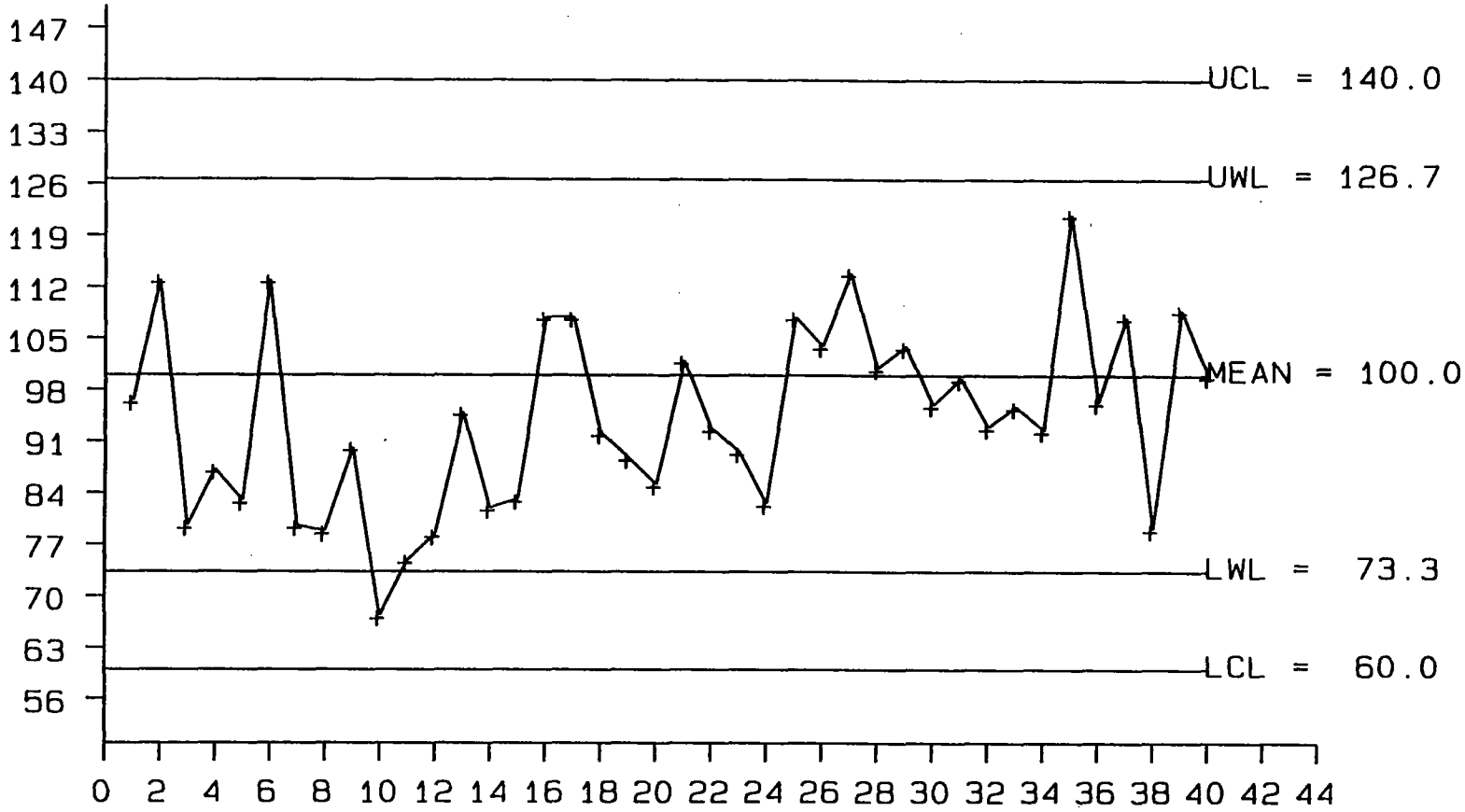
Inchcape Testing Services
Environmental Laboratories

Data Points for: 8240A_L 1,1-Dichloroethene
Chart Type: LCS RECOVERY
Generated on: 7-NOV-1996 15:38

Current Control Limits
(55.0 - 130.0)

Point	Batch Number	Date Analyzed	Value (%)
1	ITS6-720	11-APR-1996 0	112
2	ITS7-1022	12-APR-1996 0	128
3	ITS6-721	12-APR-1996 0	98.4
4	ITS6-722	12-APR-1996 0	79.6
5	ITS6-728	15-APR-1996 0	101
6	ITS6-729	15-APR-1996 0	102
7	ITS6-732	17-APR-1996 0	98.8
8	ITS6-733	17-APR-1996 0	99.4
9	ITS6-735	18-APR-1996 0	104
10	ITS6-737	19-APR-1996 0	85.0
11	ITS6-739	22-APR-1996 0	93.8
12	ITS6-740	23-APR-1996 0	99.6
13	ITS6-742	24-APR-1996 0	86.0
14	ITS6-745	25-APR-1996 0	99.0
15	ITS6-755	5-MAY-1996 0	99.8
16	ITS7-1048	6-MAY-1996 0	118
17	ITS7-1049	6-MAY-1996 0	124
18	ITS6-757	7-MAY-1996 0	111
19	ITS6-762	10-MAY-1996 0	108
20	ITS6-768	21-MAY-1996 0	91.2
21	ITS6-769	21-MAY-1996 0	93.8
22	ITS6-771	22-MAY-1996 0	102
23	ITS6-772	23-MAY-1996 0	97.6
24	ITS6-773	23-MAY-1996 0	88.4
25	ITS7-1063	24-MAY-1996 0	129
26	ITS7-1065	29-MAY-1996 0	114
27	ITS6-780	30-MAY-1996 0	114
28	ITS6-786	17-JUN-1996 0	110
29	ITS7-1103	10-JUL-1996 0	110
30	ITS7-1106	15-JUL-1996 0	102
31	ITS6-808	25-JUL-1996 0	94.0
32	ITS6-809	26-JUL-1996 0	100
33	ITS7-1119	26-JUL-1996 0	116
34	ITS6-810	27-JUL-1996 0	89.6
35	ITS6-811	29-JUL-1996 0	124
36	ITS6-813	15-AUG-1996 0	80.2
37	ITS1-847	28-AUG-1996 0	107
38	ITS2-0911	11-SEP-1996 0	110
39	1101824001	1-NOV-1996 0	113
40	1031824001	4-NOV-1996 0	84.4

8240A_L Trichloroethene (LCS RECOVERY)
Produced by GKHORTON on 7-NOV-1996 15:46:09.94



Inchcape Testing Services
Environmental Laboratories

Data Points for: 8240A_L Trichloroethene
Chart Type: LCS RECOVERY
Generated on: 7-NOV-1996 15:46

Current Control Limits
(60.0 - 140.0)

Point	Batch Number	Date Analyzed	Value (%)
1	ITS6-720	11-APR-1996 0	96.6
2	ITS7-1022	12-APR-1996 0	113
3	ITS6-721	12-APR-1996 0	79.6
4	ITS6-722	12-APR-1996 0	87.2
5	ITS6-728	15-APR-1996 0	83.0
6	ITS6-729	15-APR-1996 0	113
7	ITS6-732	17-APR-1996 0	79.6
8	ITS6-733	17-APR-1996 0	78.8
9	ITS6-735	18-APR-1996 0	90.2
10	ITS6-737	19-APR-1996 0	67.4
11	ITS6-739	22-APR-1996 0	74.9
12	ITS6-740	23-APR-1996 0	78.4
13	ITS6-742	24-APR-1996 0	95.0
14	ITS6-745	25-APR-1996 0	82.0
15	ITS6-755	5-MAY-1996 0	83.2
16	ITS7-1048	6-MAY-1996 0	108
17	ITS7-1049	6-MAY-1996 0	108
18	ITS6-757	7-MAY-1996 0	92.2
19	ITS6-762	10-MAY-1996 0	88.8
20	ITS6-768	21-MAY-1996 0	85.2
21	ITS6-769	21-MAY-1996 0	102
22	ITS6-771	22-MAY-1996 0	92.8
23	ITS6-772	23-MAY-1996 0	89.6
24	ITS6-773	23-MAY-1996 0	82.6
25	ITS7-1063	24-MAY-1996 0	108
26	ITS7-1065	29-MAY-1996 0	104
27	ITS6-780	30-MAY-1996 0	114
28	ITS6-786	17-JUN-1996 0	101
29	ITS7-1103	10-JUL-1996 0	104
30	ITS7-1106	15-JUL-1996 0	96.0
31	ITS6-808	25-JUL-1996 0	99.6
32	ITS6-809	26-JUL-1996 0	93.0
33	ITS7-1119	26-JUL-1996 0	95.8
34	ITS6-810	27-JUL-1996 0	92.6
35	ITS6-811	29-JUL-1996 0	122
36	ITS6-813	15-AUG-1996 0	96.4
37	ITS1-847	28-AUG-1996 0	108
38	ITS2-0911	11-SEP-1996 0	79.2
39	1101824001	1-NOV-1996 0	109
40	1031824001	4-NOV-1996 0	100

8240A_L Benzene (LCS RECOVERY)
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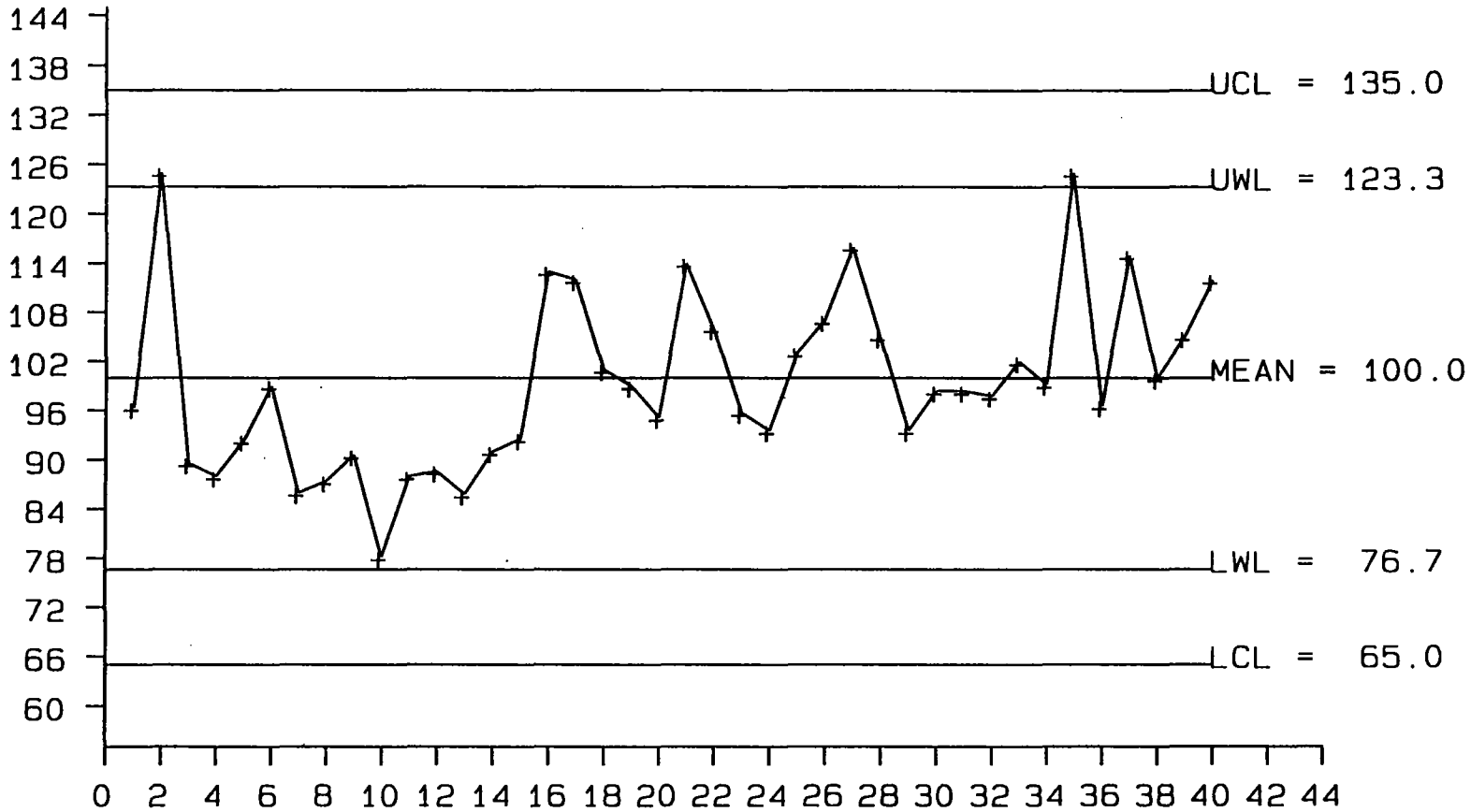


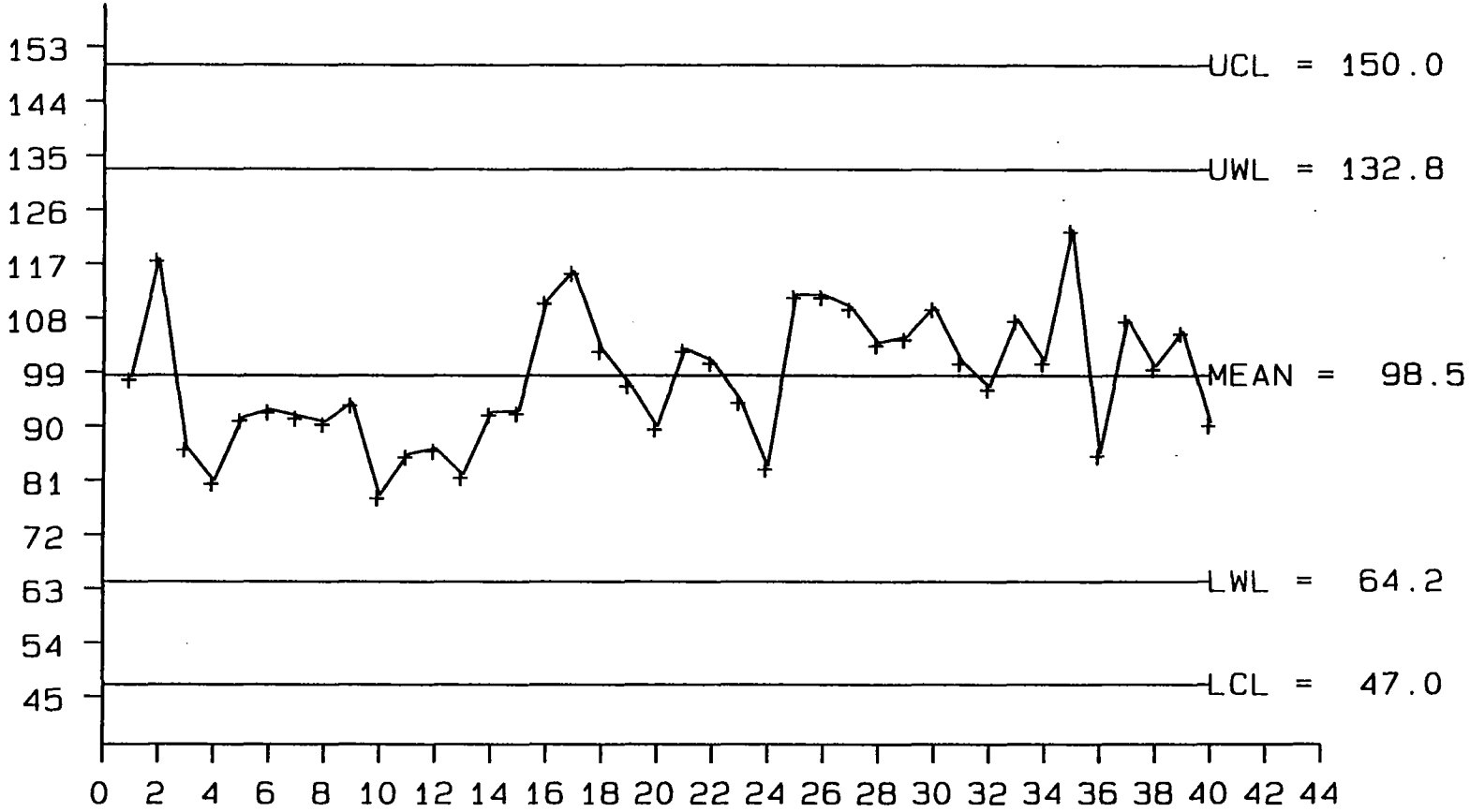
Inchcape Testing Services
Environmental Laboratories

Data Points for: 8240A_L Benzene
Chart Type: LCS RECOVERY
Generated on: 7-NOV-1996 15:51

Current Control Limits
(65.0 - 135.0)

Point	Batch Number	Date Analyzed	Value (%)
1	ITS6-720	11-APR-1996 0	96.4
2	ITS7-1022	12-APR-1996 0	125
3	ITS6-721	12-APR-1996 0	89.6
4	ITS6-722	12-APR-1996 0	88.0
5	ITS6-728	15-APR-1996 0	92.4
6	ITS6-729	15-APR-1996 0	99.0
7	ITS6-732	17-APR-1996 0	86.0
8	ITS6-733	17-APR-1996 0	87.4
9	ITS6-735	18-APR-1996 0	90.6
10	ITS6-737	19-APR-1996 0	78.2
11	ITS6-739	22-APR-1996 0	88.0
12	ITS6-740	23-APR-1996 0	88.6
13	ITS6-742	24-APR-1996 0	85.8
14	ITS6-745	25-APR-1996 0	91.0
15	ITS6-755	5-MAY-1996 0	92.6
16	ITS7-1048	6-MAY-1996 0	113
17	ITS7-1049	6-MAY-1996 0	112
18	ITS6-757	7-MAY-1996 0	101
19	ITS6-762	10-MAY-1996 0	99.0
20	ITS6-768	21-MAY-1996 0	95.2
21	ITS6-769	21-MAY-1996 0	114
22	ITS6-771	22-MAY-1996 0	106
23	ITS6-772	23-MAY-1996 0	95.8
24	ITS6-773	23-MAY-1996 0	93.6
25	ITS7-1063	24-MAY-1996 0	103
26	ITS7-1065	29-MAY-1996 0	107
27	ITS6-780	30-MAY-1996 0	116
28	ITS6-786	17-JUN-1996 0	105
29	ITS7-1103	10-JUL-1996 0	93.6
30	ITS7-1106	15-JUL-1996 0	98.4
31	ITS6-808	25-JUL-1996 0	98.4
32	ITS6-809	26-JUL-1996 0	97.8
33	ITS7-1119	26-JUL-1996 0	102
34	ITS6-810	27-JUL-1996 0	99.2
35	ITS6-811	29-JUL-1996 0	125
36	ITS6-813	15-AUG-1996 0	96.6
37	ITS1-847	28-AUG-1996 0	115
38	ITS2-0911	11-SEP-1996 0	100
39	1101824001	1-NOV-1996 0	105
40	1031824001	4-NOV-1996 0	112

8240A_L Toluene (LCS RECOVERY)
Produced by GKHORTON on 7-NOV-1996 15:57:16.93



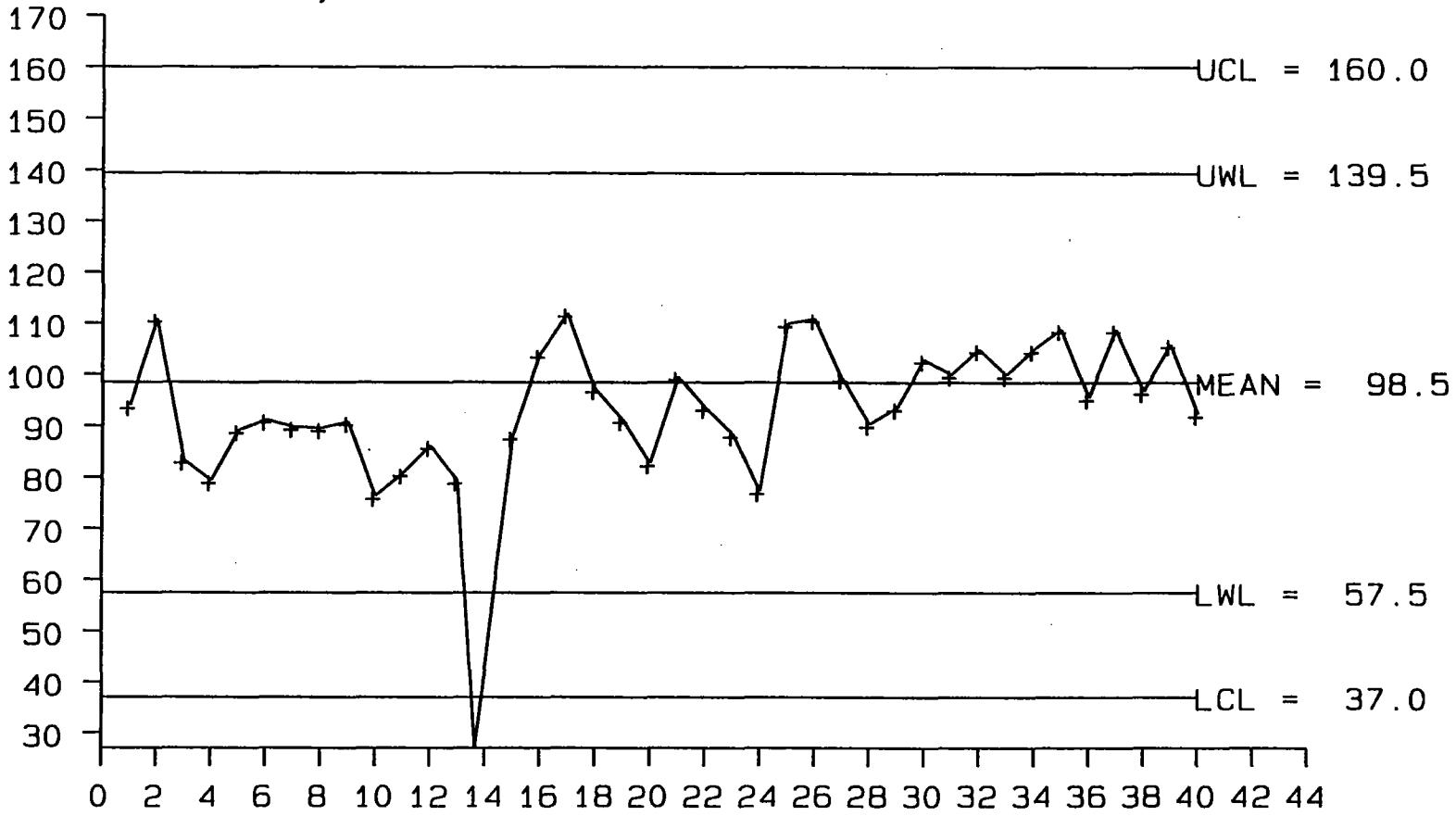
Inchcape Testing Services
Environmental Laboratories

Data Points for: 8240A_L Toluene
Chart Type: LCS RECOVERY
Generated on: 7-NOV-1996 15:57

Current Control Limits
(47.0 - 150.0)

Point	Batch Number	Date Analyzed	Value (%)
1	ITS6-720	11-APR-1996 0	98.2
2	ITS7-1022	12-APR-1996 0	118
3	ITS6-721	12-APR-1996 0	86.6
4	ITS6-722	12-APR-1996 0	81.0
5	ITS6-728	15-APR-1996 0	91.4
6	ITS6-729	15-APR-1996 0	92.8
7	ITS6-732	17-APR-1996 0	91.8
8	ITS6-733	17-APR-1996 0	90.8
9	ITS6-735	18-APR-1996 0	94.0
10	ITS6-737	19-APR-1996 0	78.6
11	ITS6-739	22-APR-1996 0	85.4
12	ITS6-740	23-APR-1996 0	86.4
13	ITS6-742	24-APR-1996 0	82.0
14	ITS6-745	25-APR-1996 0	92.4
15	ITS6-755	5-MAY-1996 0	92.6
16	ITS7-1048	6-MAY-1996 0	111
17	ITS7-1049	6-MAY-1996 0	116
18	ITS6-757	7-MAY-1996 0	103
19	ITS6-762	10-MAY-1996 0	97.2
20	ITS6-768	21-MAY-1996 0	90.0
21	ITS6-769	21-MAY-1996 0	103
22	ITS6-771	22-MAY-1996 0	101
23	ITS6-772	23-MAY-1996 0	94.4
24	ITS6-773	23-MAY-1996 0	83.4
25	ITS7-1063	24-MAY-1996 0	112
26	ITS7-1065	29-MAY-1996 0	112
27	ITS6-780	30-MAY-1996 0	110
28	ITS6-786	17-JUN-1996 0	104
29	ITS7-1103	10-JUL-1996 0	105
30	ITS7-1106	15-JUL-1996 0	110
31	ITS6-808	25-JUL-1996 0	101
32	ITS6-809	26-JUL-1996 0	96.6
33	ITS7-1119	26-JUL-1996 0	108
34	ITS6-810	27-JUL-1996 0	101
35	ITS6-811	29-JUL-1996 0	123
36	ITS6-813	15-AUG-1996 0	85.6
37	ITS1-847	28-AUG-1996 0	108
38	ITS2-0911	11-SEP-1996 0	100
39	1101824001	1-NOV-1996 0	106
40	1031824001	4-NOV-1996 0	90.6

8240A_L Chlorobenzene (LCS RECOVERY)
Produced by GKHORTON on 7-NOV-1996 16: 18: 30.84



Inchcape Testing Services
Environmental Laboratories

Data Points for: 8240A_L Chlorobenzene
Chart Type: LCS RECOVERY
Generated on: 7-NOV-1996 16:18

Current Control Limits
(37.0 - 160.0)

Point	Batch Number	Date Analyzed	Value (%)
1	ITS6-720	11-APR-1996 0	94.0
2	ITS7-1022	12-APR-1996 0	111
3	ITS6-721	12-APR-1996 0	83.4
4	ITS6-722	12-APR-1996 0	79.4
5	ITS6-728	15-APR-1996 0	89.2
6	ITS6-729	15-APR-1996 0	91.2
7	ITS6-732	17-APR-1996 0	89.8
8	ITS6-733	17-APR-1996 0	89.6
9	ITS6-735	18-APR-1996 0	90.8
10	ITS6-737	19-APR-1996 0	76.4
11	ITS6-739	22-APR-1996 0	80.8
12	ITS6-740	23-APR-1996 0	86.2
13	ITS6-742	24-APR-1996 0	79.4
14	ITS6-745	25-APR-1996 0	0.0
15	ITS6-755	5-MAY-1996 0	88.0
16	ITS7-1048	6-MAY-1996 0	104
17	ITS7-1049	6-MAY-1996 0	112
18	ITS6-757	7-MAY-1996 0	97.2
19	ITS6-762	10-MAY-1996 0	91.2
20	ITS6-768	21-MAY-1996 0	82.8
21	ITS6-769	21-MAY-1996 0	99.6
22	ITS6-771	22-MAY-1996 0	93.6
23	ITS6-772	23-MAY-1996 0	88.4
24	ITS6-773	23-MAY-1996 0	77.4
25	ITS7-1063	24-MAY-1996 0	110
26	ITS7-1065	29-MAY-1996 0	111
27	ITS6-780	30-MAY-1996 0	99.4
28	ITS6-786	17-JUN-1996 0	90.4
29	ITS7-1103	10-JUL-1996 0	93.6
30	ITS7-1106	15-JUL-1996 0	103
31	ITS6-808	25-JUL-1996 0	100
32	ITS6-809	26-JUL-1996 0	105
33	ITS7-1119	26-JUL-1996 0	100
34	ITS6-810	27-JUL-1996 0	105
35	ITS6-811	29-JUL-1996 0	109
36	ITS6-813	15-AUG-1996 0	95.6
37	ITS1-847	28-AUG-1996 0	109
38	ITS2-0911	11-SEP-1996 0	96.8
39	1101824001	1-NOV-1996 0	106
40	1031824001	4-NOV-1996 0	92.4

SEMIVOLATILES DATA

QUALITY CONTROL SUMMARY

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

	CLIENT SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	10809-6 BLK	74	81	91	89	61	73			0
02	10809-6 BLKB	52	94	96	89	68	93			0
03	10809-6 BLKB	79	98	102	100	68	99			0
04	MW000RF1MW2	63	84	77	43	58	76			0
05	RF1MW115F	82	93	87	31*	76	101			1
06	RF1MW15 RE	75	72	98	37	74	65			0
07	MW000RF1MW16	52	61	46	29D	47	52			0
08	RF1MW15	77	91	92	41	74	100			0
09	MW000RF1MW16	57	75	48	38	52	57			0
10										
11										
12										
13										
14										
15										
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29										
30										

		QC LIMITS
S1	= Phenol-d6 (SS)	(30-110)
S2	= Nitrobenzene-d5 (SS)	(35-114)
S3	= 2-Fluorobiphenyl (SS)	(43-116)
S4	= Terphenyl-d14 (SS)	(33-141)
S5	= 2-Fluorophenol (SS)	(30-120)
S6	= 2,4,6-Tribromophenol (	(25-135)

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

FORM 3
WATER SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix Spike - Sample No.: 10809-6 BLK

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC. LIMITS REC.
Phenol	100	0.000	60.3	60	5-112
2-Chlorophenol	100	0.000	74.5	74	23-134
1,4-Dichlorobenzene	100	0.000	70.5	70	20-124
N-Nitroso-di-n-prop.(1)	100	0.000	85.5	86	10-230
1,2,4-Trichlorobenzene	100	0.000	78.8	79	44-142
4-Chloro-3-methylphenol	100	0.000	79.5	80	22-147
Acenaphthene	100	0.000	66.6	67	47-145
4-Nitrophenol	100	0.000	84.1	84	10-132
2,4-Dinitrotoluene	100	0.000	84.1	84	39-139
Pentachlorophenol	100	0.000	90.7	91	14-176
Pyrene	100	0.000	60.5	60	52-115

COMPOUND	SPIKE ADDED (ug/L)	BSD CONCENTRATION (ug/L)	BSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	100	86.1	86	36*	23	5-112
2-Chlorophenol	100	81.7	82	10	29	23-134
1,4-Dichlorobenzene	100	79.8	80	13	32	20-124
N-Nitroso-di-n-prop.(1)	100	93.9	94	9	55	10-230
1,2,4-Trichlorobenzene	100	87.1	87	10	28	44-142
4-Chloro-3-methylphenol	100	92.9	93	15	37	22-147
Acenaphthene	100	91.5	92	31*	28	47-145
4-Nitrophenol	100	96.4	96	13	47	10-132
2,4-Dinitrotoluene	100	94.5	94	11	22	39-139
Pentachlorophenol	100	90.1	90	1	49	14-176
Pyrene	100	85.6	86	36*	25	52-115

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 3 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

10809-6 BLK

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Lab File ID: DN421 Lab Sample ID: D96-10809-6

Instrument ID: ITS5 Date Extracted: 09/30/96

Matrix: (soil/water) WATER Date Analyzed: 10/03/96

Level:(low/med) LOW Time Analyzed: 2355

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	10809-6 BLKB	D96-10809-6 BS	DN422	10/04/96
02	10809-6 BLKB	D96-10809-6 BS	DN423	10/04/96
03	MW000RF1MW2	D96-10809-3	DN424	10/04/96
04	RF1MW115F	D96-10809-5	DN425	10/04/96
05	RF1MW15 RE	D96-10809-4	DN426	10/04/96
06	MW000RF1MW16	D96-10809-1	DN427	10/04/96
07	RF1MW15	D96-10809-4	DN428	10/04/96
08	MW000RF1MW16	D96-10809-1	DN429	10/04/96
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COMMENTS:

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Lab File ID: DN415 DFTPP Injection Date: 10/03/96

Instrument ID: ITS5 DFTPP Injection Time: 2026

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.2
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	22.4
365	Greater than 1.0% of mass 198	2.67
441	Present, but less than mass 443	7.3
442	40.0 - 110.0% of mass 198	58.1
443	17.0 - 23.0% of mass 442	11.2 (19.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050 AB3	SSTD050 AB396	DN416	10/03/96	2045
02	ANLN050 AB3	ANLN050 AB396	DN417	10/03/96	2128
03	PHEN050 AB3	PHEN050 AB396	DN418	10/03/96	2205
04	CHLO050 AB3	CHLO050 AB396	DN419	10/03/96	2242
05	AMIN050 AB3	AMIN050 AB396	DN420	10/03/96	2318
06	10809-6 BLK	D96-10809-6	DN421	10/03/96	2355
07	10809-6 BLKB	D96-10809-6 BS	DN422	10/04/96	0031
08	10809-6 BLKB	D96-10809-6 BS	DN423	10/04/96	0108
09	MW000RF1MW2	D96-10809-3	DN424	10/04/96	0144
10	RF1MW115F	D96-10809-5	DN425	10/04/96	0221
11	RF1MW15 RE	D96-10809-4	DN426	10/04/96	0258
12	MW000RF1MW16	D96-10809-1	DN427	10/04/96	0334
13	RF1MW15	D96-10809-4	DN428	10/04/96	0411
14	MW000RF1MW16	D96-10809-1	DN429	10/04/96	0447
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Lab File ID (Standard): DN416 Date Analyzed: 10/03/96

Instrument ID: ITS5 Time Analyzed: 2045

		IS1(DCB) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3(PHN) AREA #	RT #
	12 HOUR STD	27981	6.19	47296	12.10	83215	16.10
	UPPER LIMIT	55962	6.69	94592	12.60	166430	16.60
	LOWER LIMIT	13990	5.69	23648	11.60	41608	15.60
	CLIENT SAMPLE NO.						
01	10809-6 BLK	18055	6.20	32662	12.10	52455	16.09
02	10809-6 BLKB	16096	6.19	27382	12.10	47760	16.10
03	10809-6 BLKB	16572	6.20	30247	12.10	53297	16.09
04	MW000RF1MW2	19420	6.19	39628	12.09	65622	16.09
05	RF1MW115F	20130	6.20	38226	12.09	72085	16.09
06	RF1MW15 RE	22640	6.20	38167	12.09	69311	16.09
07	MW000RF1MW16	17973	6.19	34225	12.10	59216	16.10
08	RF1MW15	19975	6.20	36427	12.10	67350	16.09
09	MW000RF1MW16	32098	6.21	63357	12.11	111048	16.12
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (ANT) = Acenaphthene-d10
IS3 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Lab File ID (Standard): DN416 Date Analyzed: 10/03/96

Instrument ID: ITS5 Time Analyzed: 2045

		IS4 (CRY) AREA #	RT #	IS5 (PRY) AREA #	RT #	IS6 (NPT) AREA #	RT #
	12 HOUR STD	56462	22.48	51173	25.33	85693	8.55
	UPPER LIMIT	112924	22.98	102346	25.83	171386	9.05
	LOWER LIMIT	28231	21.98	25586	24.83	42846	8.05
	CLIENT SAMPLE NO.						
01	10809-6 BLK	37107	22.47	30991	25.33	59076	8.55
02	10809-6 BLKB	38513	22.48	34966	25.33	50037	8.55
03	10809-6 BLKB	33633	22.48	28039	25.33	53272	8.56
04	MW000RF1MW2	50815	22.48	46787	25.33	63747	8.55
05	RF1MW115F	60923	22.47	58452	25.33	62438	8.55
06	RF1MW15 RE	52112	22.47	48272	25.32	69595	8.54
07	MW000RF1MW16	42478	22.48	35277	25.33	58217	8.55
08	RF1MW15	57000	22.47	47230	25.33	60099	8.55
09	MW000RF1MW16	47303	22.50	28890	25.35	106485	8.55
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IS4 (CRY) = Chrysene-d12
IS5 (PRY) = Perylene-d12
IS6 (NPT) = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

MW000RF1MW16

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN429

Level: (low/med) LOW Date Received: 09/27/96

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

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10.0	U
62-53-3	Aniline	50.0	U
108-95-2	Phenol	228	E
111-44-4	Bis(2-Chloroethyl)Ether	10.0	U
95-57-8	2-Chlorophenol	10.0	U
541-73-1	1,3-Dichlorobenzene	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
100-51-6	Benzyl alcohol	20.0	U
95-50-1	1,2-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
39638-32-9	Bis(2-Chloroisopropyl)ether	10.0	U
106-44-5	4-Methylphenol	11.6	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U
67-72-1	Hexachloroethane	10.0	U
98-95-3	Nitrobenzene	10.0	U
78-59-1	Isophorone	10.0	U
88-75-5	2-Nitrophenol	10.0	U
105-67-9	2,4-Dimethylphenol	10.0	U
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U
65-85-0	Benzoic acid	29.0	J
120-83-2	2,4-Dichlorophenol	10.0	U
120-82-1	1,2,4-Trichlorobenzene	10.0	U
106-47-8	4-Chloroaniline	20.0	U
87-68-3	Hexachlorobutadiene	10.0	U
59-50-7	4-Chloro-3-methylphenol	20.0	U
91-57-6	2-Methylnaphthalene	10.0	U
77-47-4	Hexachlorocyclopentadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	50.0	U
91-58-7	2-Chloronaphthalene	10.0	U
88-74-4	2-Nitroaniline	50.0	U
131-11-3	Dimethyl phthalate	10.0	U
208-96-8	Acenaphthylene	10.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

MW000RF1MW16

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN429

Level: (low/med) LOW Date Received: 09/27/96

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

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10.0	U
99-09-2	3-Nitroaniline	50.0	U
83-32-9	Acenaphthene	10.0	U
51-28-5	2,4-Dinitrophenol	50.0	U
132-64-9	Dibenzofuran	10.0	U
100-02-7	4-Nitrophenol	50.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
84-66-2	Diethyl phthalate	10.0	U
86-73-7	Fluorene	10.0	U
7005-72-3	4-Chlorophenylphenyl ether	10.0	U
100-01-6	4-Nitroaniline	50.0	U
534-52-1	4,6-Dinitro-2-methylphenol	50.0	U
86-30-6	N-Nitrosodiphenylamine (1)	10.0	U
103-33-3	1,2-Diphenylhydrazine	50.0	U
101-55-3	4-Bromophenylphenyl ether	10.0	U
87-86-5	Pentachlorophenol	50.0	U
92875	Benzidine	50.0	U
85-01-8	Phenanthrene	10.0	U
120-12-7	Anthracene	10.0	U
86-74-8	Carbazole	10.0	U
84-74-2	Di-n-butylphthalate	10.0	U
206-44-0	Fluoranthene	10.0	U
129-00-0	Pyrene	10.0	U
85-68-7	Butyl benzyl phthalate	10.0	U
56-55-3	Benzo(a)anthracene	10.0	U
91-94-1	3,3'-Dichlorobenzidine	20.0	U
218-01-9	Chrysene	10.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U
117-84-0	Di-n-octylphthalate	10.0	U
205-99-2	Benzo(b)fluoranthene	10.0	U
207-08-9	Benzo(k)fluoranthene	10.0	U
50-32-8	Benzo(a)pyrene	10.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U

(1) - Cannot be separated from Diphenylamine

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

MW000RF1MW16

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN429

Level: (low/med) LOW Date Received: 09/27/96

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

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
53-70-3	Dibenz(a,h)anthracene	10.0	U
191-24-2	Benzo(g,h,i)perylene	10.0	U
110-86-1	Pyridine	10.0	U
	m,p-Cresol	10.0	U
109-06-8	2-Picoline	50.0	U
10595-95-6	N-Nitrosomethylethylamine	10.0	U
66-27-3	Methyl methanesulfonate	50.0	U
55-18-5	N-Nitrosodiethylamine	10.0	U
62-50-0	Ethyl methanesulfonate	50.0	U
76-01-7	Pentachloroethane	10.0	U
98-86-2	Acetophenone	50.0	U
930-55-2	N-Nitrosopyrrolidine	10.0	U
59-89-2	N-Nitrosomorpholine	10.0	U
95-53-4	o-Toluidine	10.0	U
106-50-3	p-Phenylenediamine	10.0	U
100-75-4	N-Nitrosopiperidine	10.0	U
29088-49-1	a,a-Dimethylphenylethylamine	10.0	U
87-65-0	2,6-Dichlorophenol	10.0	U
1888-71-7	Hexachloropropene	10.0	U
924-16-3	N-Nitrosodibutylamine	10.0	U
120-58-1	Isosafrole	10.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U
94-59-7	Safrole	10.0	U
90-13-1	1-Chloronaphthalene	10.0	U
130-15-4	1,4-Naphthoquinone	10.0	U
99-65-0	m-Dinitrobenzene	10.0	U
608-93-5	Pentachlorobenzene	10.0	U
91-59-8	2-Naphthylamine	10.0	U
134-32-7	1-Naphthylamine	10.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U
99-55-8	5-Nitro-o-toluidine	10.0	U
99-35-4	1,3,5-Trinitrobenzene	10.0	U
2303-16-4	Diallate	10.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

MW000RF1MW16

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN429

Level: (low/med) LOW Date Received: 09/27/96

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

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-44-2	Phenacetin	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
92-67-1	4-Aminobiphenyl	50.0	U
82-68-8	Pentachloronitrobenzene	10.0	U
23950-58-5	Pronamide	10.0	U
88-85-7	Dinoseb	10.0	U
56-57-5	4-Nitroquinoline-1-oxide	10.0	U
91-80-5	Methapyrilene	10.0	U
465-73-6	Isodrin	10.0	U
140-57-8	Aromite	10.0	U
60-11-7	p-(Dimethylamino)azobenzene	10.0	U
510-15-6	Chlorobenzilate	10.0	U
	3,3'-Dimethylbenzidine	10.0	U
143-50-0	Kepone	10.0	U
53-96-3	2-Actylaminofluorene	10.0	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10.0	U
70-30-4	Hexachlorophene	50.0	U
56-49-5	3-Methylcholanthrene	10.0	U
224-42-9	Dibenz[a,j]acridine	50.0	U
86-30-6	N-Nitroso- & Diphenylamine	10.0	U
91-20-3	Naphthalene	10.0	U
126-68-1	Triethyl thiophosphate	10.0	U
60-51-5	Dimethoate	10.0	U
298-04-4	Disolfonton	10.0	U
298-00-0	Methyl parathion	10.0	U
56-38-2	Parathion	10.0	U
298-02-2	Phorate	10.0	U
3689-24-5	Sulfotep	10.0	U
297-97-2	Thionazin	10.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

KEARNEY SAMPLE NO.

MW000RF1MW16

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN429

Level: (low/med) LOW Date Received: 09/27/96

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

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ACID	4.94	130	J
2. 103-82-2	BENZENEACETIC ACID	9.88	217	NJ
3. 1638-16-0	PROPANEDIYLBISOXYPROPANOL	10.18	422	NJ
4.	UNKNOWN ETHER	10.36	111	J
5.	UNKNOWN ETHER	11.49	71.1	J
6.	UNKNOWN ETHER	13.38	367	J
7.	UNKNOWN ETHER	13.45	280	J
8.	UNKNOWN ETHER	13.64	74.2	J
9.	UNKNOWN ETHER	16.98	338	J
10.	UNKNOWN ETHER	17.85	110	J
11.	UNKNOWN ETHER	19.63	732	J
12.	UNKNOWN ALCOHOL	20.95	449	J
13.	UNKNOWN ETHER	21.72	1280	J
14.	UNKNOWN ETHER	21.82	1350	J
15.	UNKNOWN ETHER	22.21	761	J
16.	UNKNOWN ETHER	22.94	740	J
17.	UNKNOWN ETHER	23.41	943	J
18.	UNKNOWN ETHER	24.21	69.8	J
19.	UNKNOWN ETHER	24.63	42.5	J
20.	UNKNOWN ETHER	24.96	38.5	J
21.	UNKNOWN ETHER	26.87	102	J
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Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN429.d
Lab Smp Id: D96-10809-1 Client Smp ID: Kearney 1000/1
Inj Date : 04-OCT-1996 04:47
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/1 09-30-96 AT Kearney BTL#15
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 6 2-Fluorophenol (SS)	112.00	4.229	4.182	(0.681)	52025	51.5	51.5
$ 10 Phenol-d6 (SS)	99.00	5.767	5.621	(0.929)	57850	57.2	57.2(M)
11 Phenol	94.00	5.790	5.644	(0.932)	227393	228	~~228(AGM)~~ >160
* 16 1,4-Dichlorobenzene-d4	152.00	6.209	6.191	(1.000)	32098	40.0	
27 4-Methylphenol	108.00	7.095	6.982	(1.143)	8050	11.6	11.6(M)
$ 29 Nitrobenzene-d5 (SS)	82.00	7.211	7.203	(0.843)	47785	37.3	37.3
40 Benzoic acid	122.00	8.704	8.284	(1.018)	15324	29.0	29.0(a)
* 42 Naphthalene-d8	136.00	8.552	8.552	(1.000)	106485	40.0	
$ 58 2-Fluorobiphenyl (SS)	172.00	10.773	10.760	(0.890)	57657	24.2	24.2
* 67 Acenaphthene-d10	164.00	12.108	12.097	(1.000)	63357	40.0	
$ 88 2,4,6-Tribromophenol (SS)	330.00	14.217	14.097	(1.174)	27645	56.7	56.7
* 101 Phenanthrene-d10	188.00	16.116	16.096	(1.000)	111048	40.0	
$ 116 Terphenyl-d14 (SS)	244.00	20.237	20.218	(0.900)	25949	18.9	18.9
* 126 Chrysene-d12	240.00	22.495	22.483	(1.000)	47303	40.0	
* 135 Perylene-d12	264.00	25.348	25.331	(1.000)	28890	40.0	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem3/ITS5.i/100396.b/DN429.d
Lab Smp Id: D96-10809-1 Client Smp ID: Kearney 1000/1
Inj Date : 04-OCT-1996 04:47
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/1 09-30-96 AT Kearney BTL#15
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

ISTD	RT	AREA	AMOUNT
* 16 1,4-Dichlorobenzene-d4	6.209	248559	40.000
* 42 Naphthalene-d8	8.552	317654	40.000
* 67 Acenaphthene-d10	12.108	397281	40.000
* 101 Phenanthrene-d10	16.116	282511	40.000
* 126 Chrysene-d12	22.495	107636	40.000
* 135 Perylene-d12	25.348	705403	40.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown acid					CAS #:		
4.940	811098	130	130	0		0	16
Benzeneacetic acid					CAS #: 103-82-2		
9.880	1725879	217	217	87	NBS75K.l	6478	42
Propanediylbisoxypropanol					CAS #: 1638-16-0		
10.180	3350296	422	422	90	NBS75K.l	20630	42

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown ether					CAS #:		
10.360	1106461	111	111	0		0	67
Unknown ether					CAS #:		
11.490	705796	71.1	71.1	0		0	67
Unknown ether					CAS #:		
13.380	3645574	367	367	0		0	67
Unknown ether					CAS #:		
13.450	2777166	280	280	0		0	67
Unknown ether					CAS #:		
13.640	736912	74.2	74.2	0		0	67
Unknown ether					CAS #:		
16.980	2385111	338	338	0		0	101
Unknown ether					CAS #:		
17.850	778024	110	110	0		0	101
Unknown ether					CAS #:		
19.630	1970334	732	732	0		0	126
Unknown alcohol					CAS #:		
20.950	1208042	449	449	0		0	126
Unknown ether					CAS #:		
21.720	3438906	1280	1280	0		0	126
Unknown ether					CAS #:		
21.820	3622522	1350	1350	0		0	126
Unknown ether					CAS #:		
22.210	2048381	761	761	0		0	126
Unknown ether					CAS #:		
22.940	1990099	740	740	0		0	126
Unknown ether					CAS #:		
23.410	2537792	943	943	0		0	126
Unknown ether					CAS #:		
24.210	1230666	69.8	69.8	0		0	135
Unknown ether					CAS #:		
24.630	750164	42.5	42.5	0		0	135

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown ether					CAS #:		
24.960	679819	38.5	38.5	0		0	135
Unknown ether					CAS #:		
26.870	1792069	102	102	0		0	135

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ITS5.i
Lab File ID: DN429.d
Lab Smp Id: D96-10809-1
Analysis Type: SV
Quant Type: ISTD
Operator: WSW
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 AT Kearney BTL#15

Calibration Date: 10/03/96
Calibration Time: 2045
Client Smp ID: Kearney 1000/1
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	27981	13990	55962	32098	14.71
42 Naphthalene-d8	85693	42846	171386	106485	24.26
67 Acenaphthene-d10	47296	23648	94592	63357	33.96
101 Phenanthrene-d10	83215	41608	166430	111048	33.45
126 Chrysene-d12	56462	28231	112924	47303	-16.22
135 Perylene-d12	51173	25586	102346	28890	-43.54

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	6.19	5.69	6.69	6.21	0.30
42 Naphthalene-d8	8.55	8.05	9.05	8.55	0.01
67 Acenaphthene-d10	12.10	11.60	12.60	12.11	0.09
101 Phenanthrene-d10	16.10	15.60	16.60	16.12	0.13
126 Chrysene-d12	22.48	21.98	22.98	22.50	0.06
135 Perylene-d12	25.33	24.83	25.83	25.35	0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-1
Level: LOW
Data Type: MS DATA
SpikeList File: 8270_100.spk
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 AT Kearney BTL#15

Client SDG: 100396
Fraction: SV
Client Smp ID: Kearney 1000/1
Operator: WSW
SampleType: SAMPLE
Quant Type: ISTD

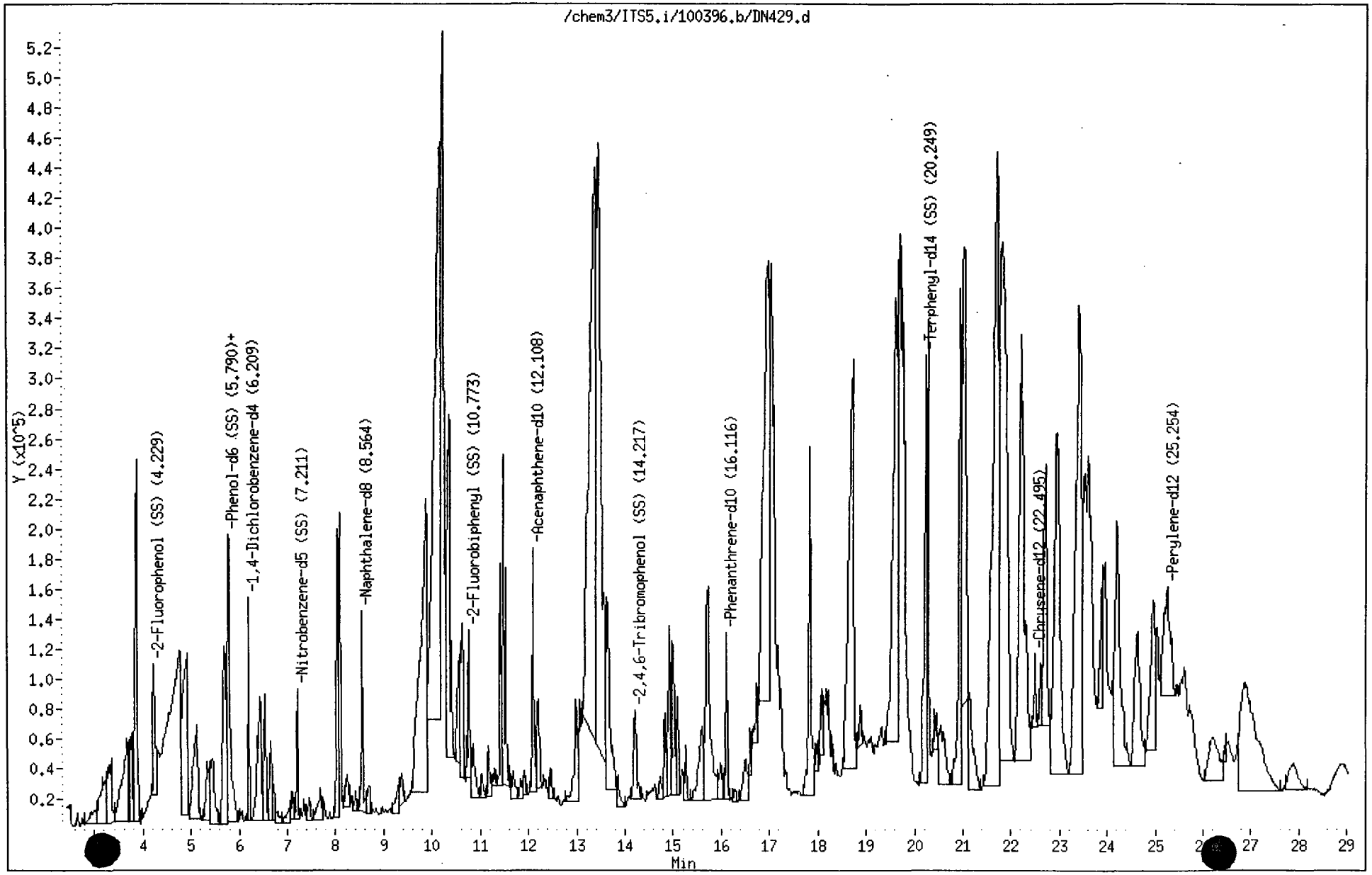
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Fluorophenol (SS	100	51.5	51.51	30-120
$ 10 Phenol-d6 (SS)	100	57.2	57.21	30-110
$ 29 Nitrobenzene-d5 (S	50.0	37.3	74.61	35-114
$ 58 2-Fluorobiphenyl (	50.0	24.2	48.38	43-116
$ 88 2,4,6-Tribromophen	100	56.7	56.72	25-135
$ 116 Terphenyl-d14 (SS)	50.0	18.9	37.81	33-141

194

Data File: /chem3/ITS5.i/100396.b/DN429.d
Date : 04-OCT-1996 04:47
Client ID: Kearney 1000/1
Sample Info: IL_8270_L;;AB879-90;1
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

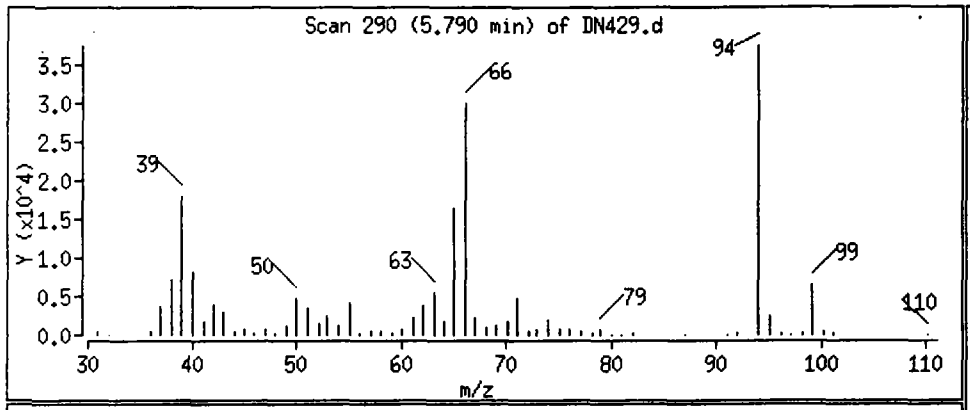
Volume Injected (uL): 1.0

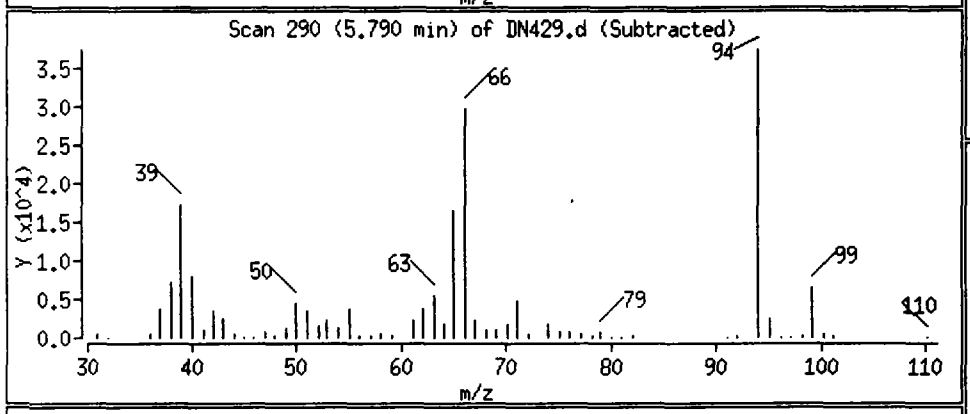
Operator: WSW

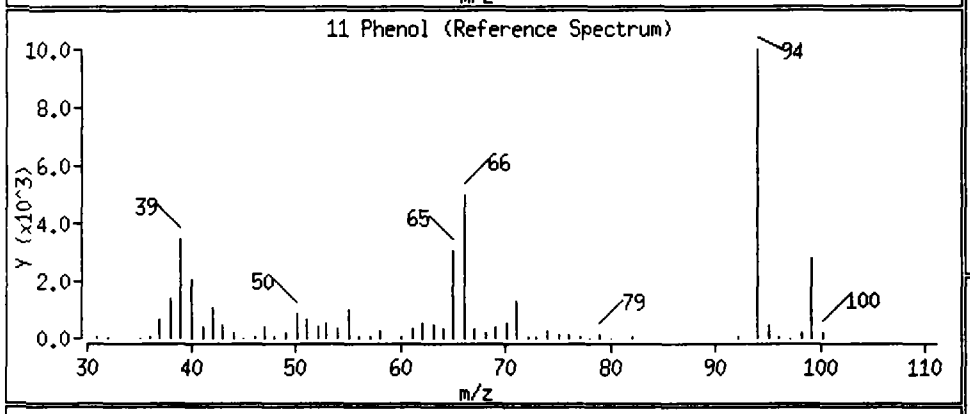
Column phase: DB-5

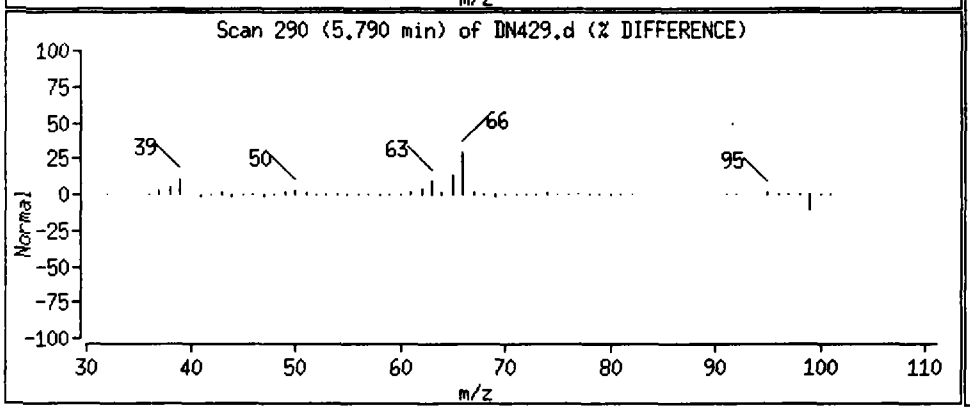
Column diameter: 0.25

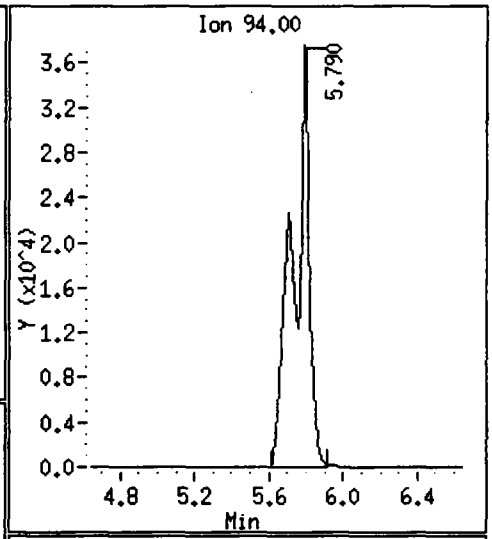
11 Phenol

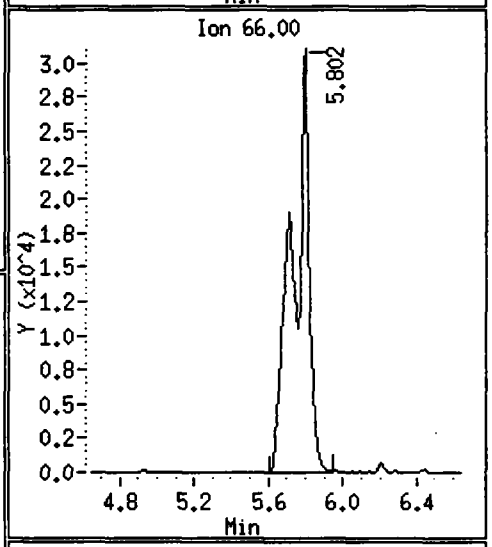


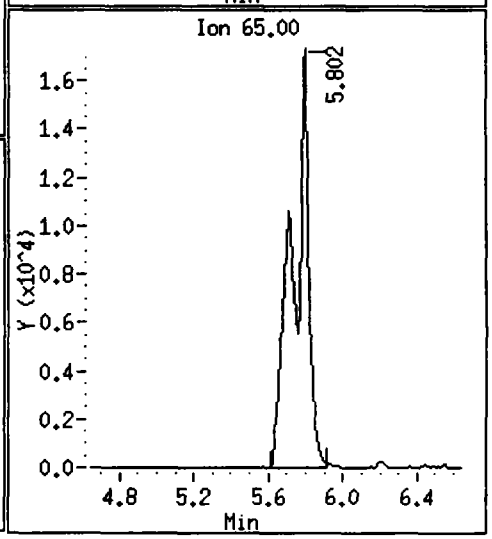












Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

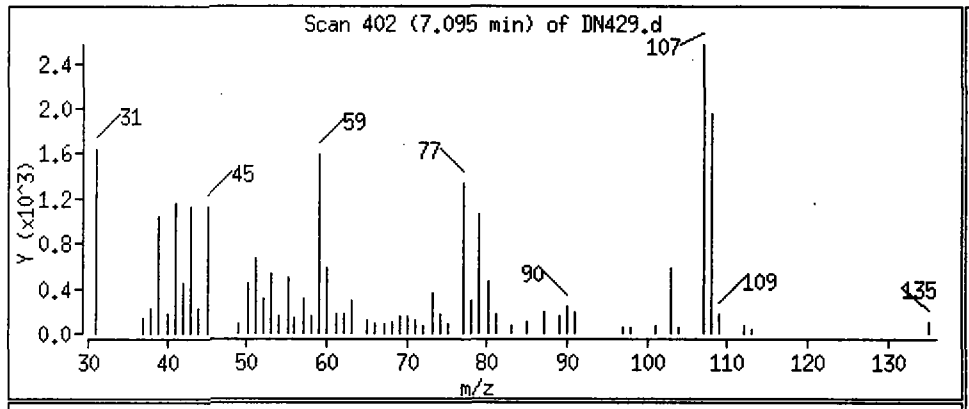
Volume Injected (uL): 1.0

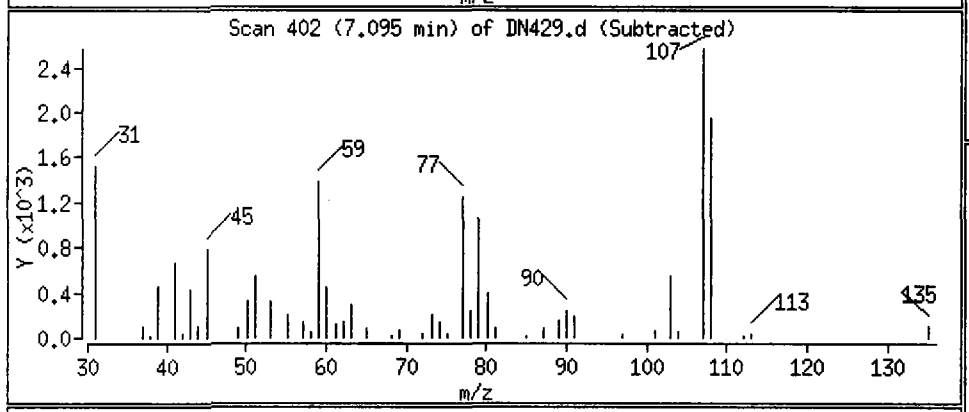
Operator: WSW

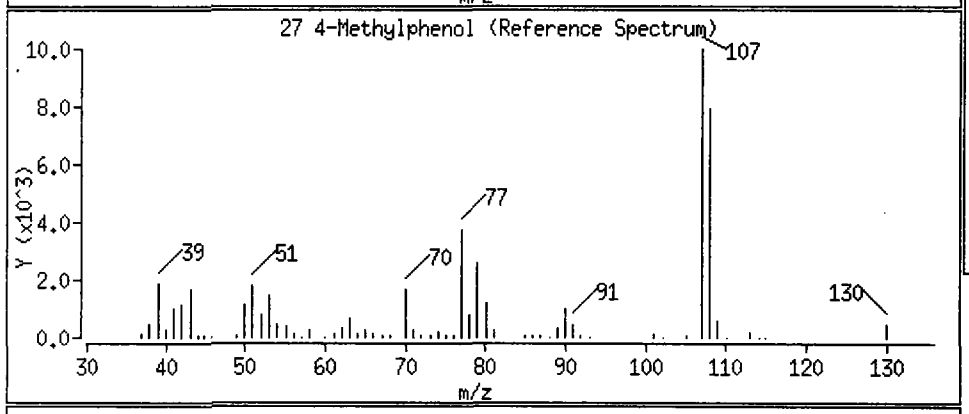
Column phase: DB-5

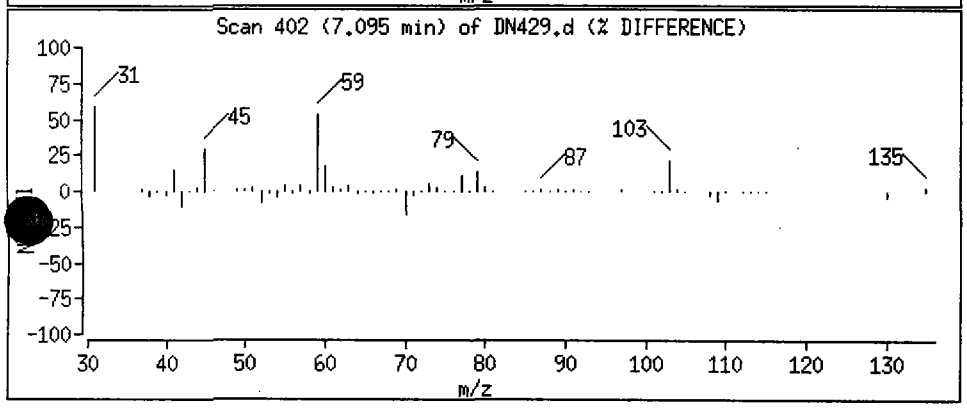
Column diameter: 0.25

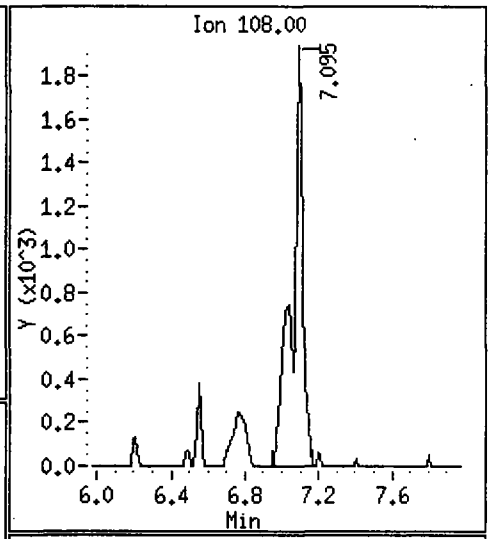
27 4-Methylphenol

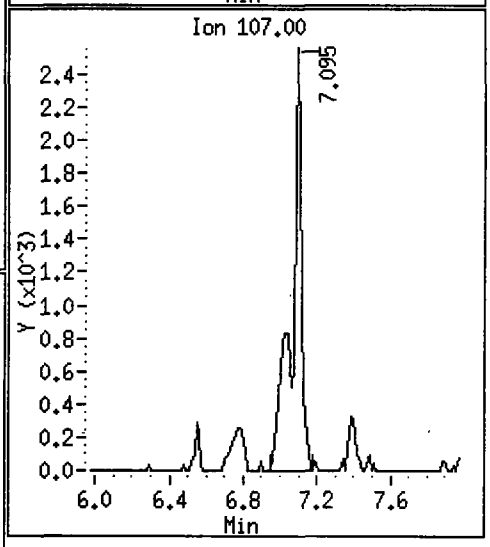












Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

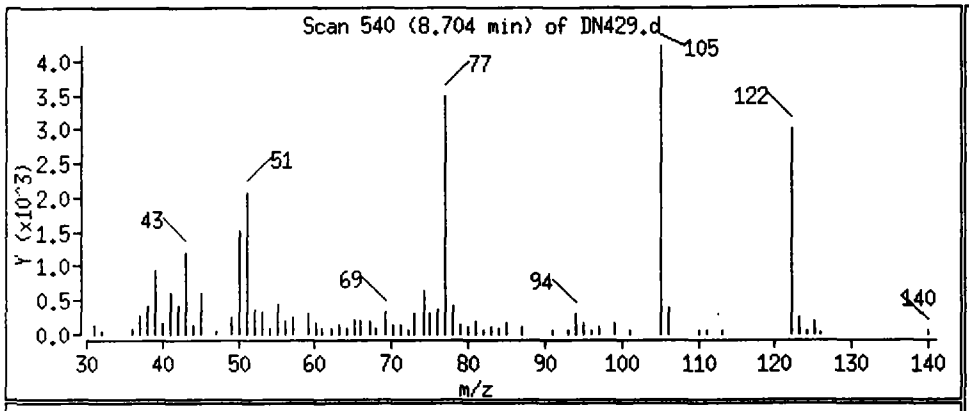
Volume Injected (uL): 1.0

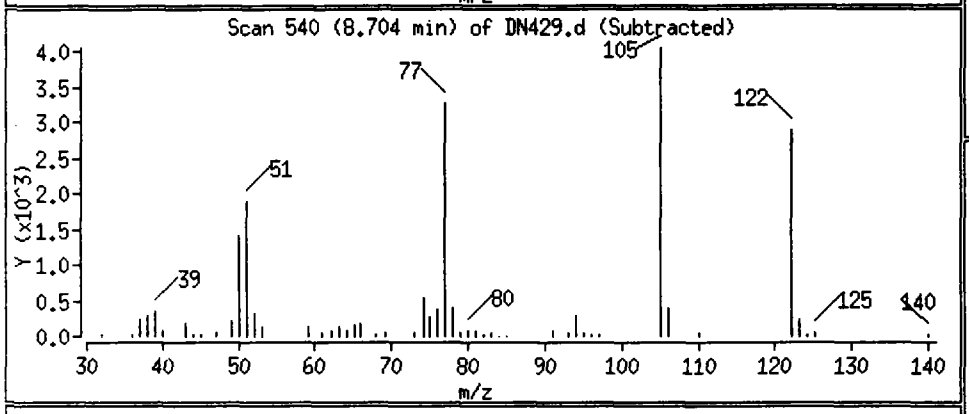
Operator: WSW

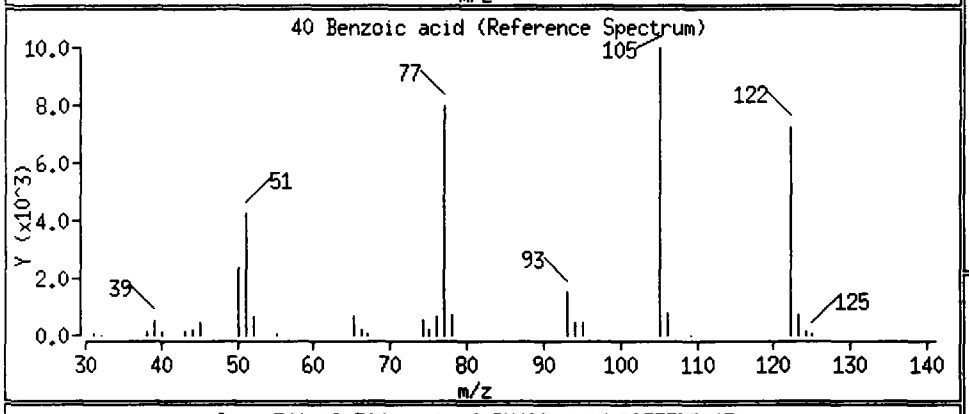
Column phase: DB-5

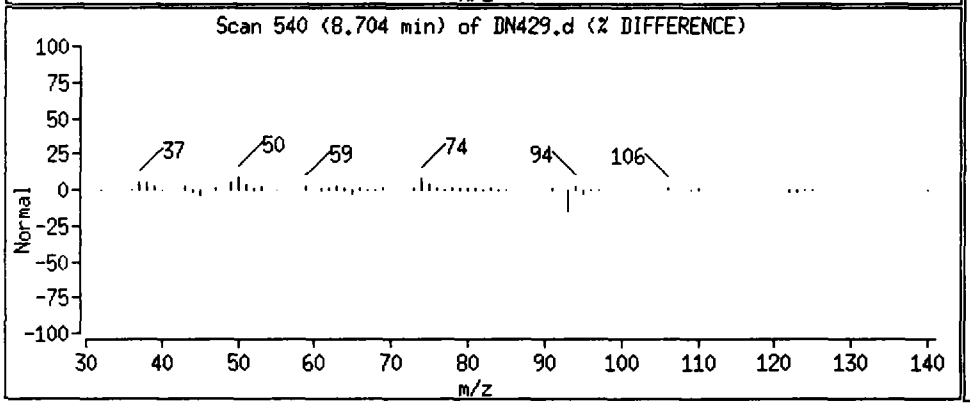
Column diameter: 0.25

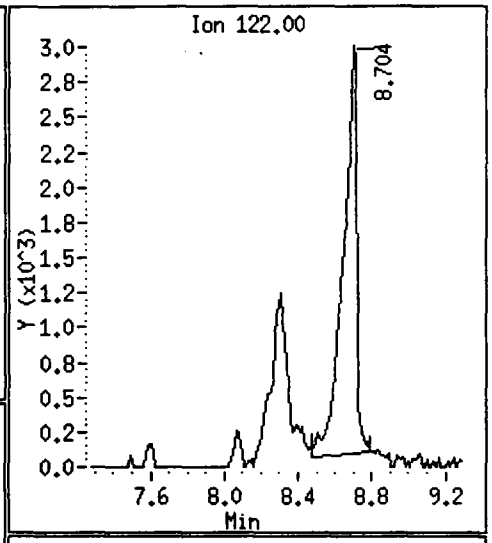
40 Benzoic acid

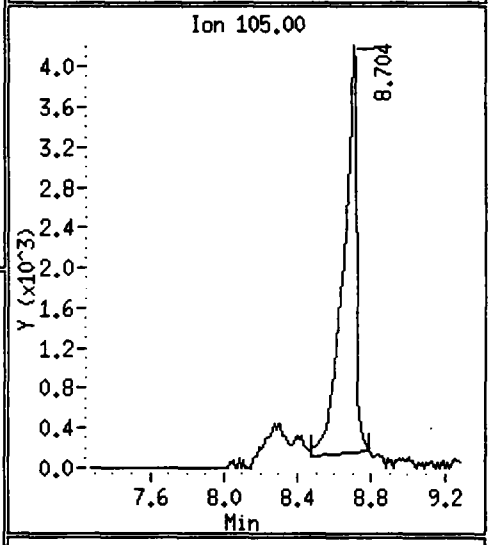


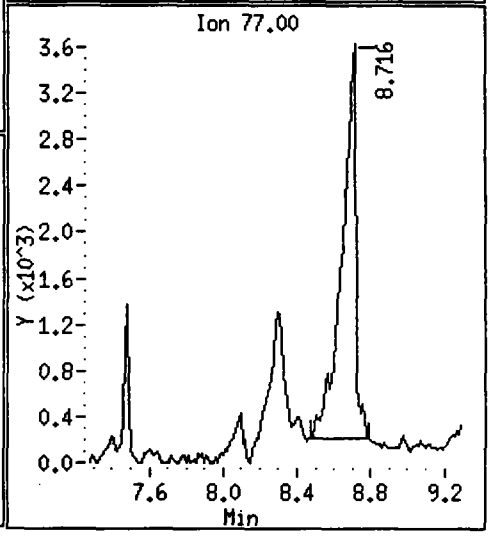












Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

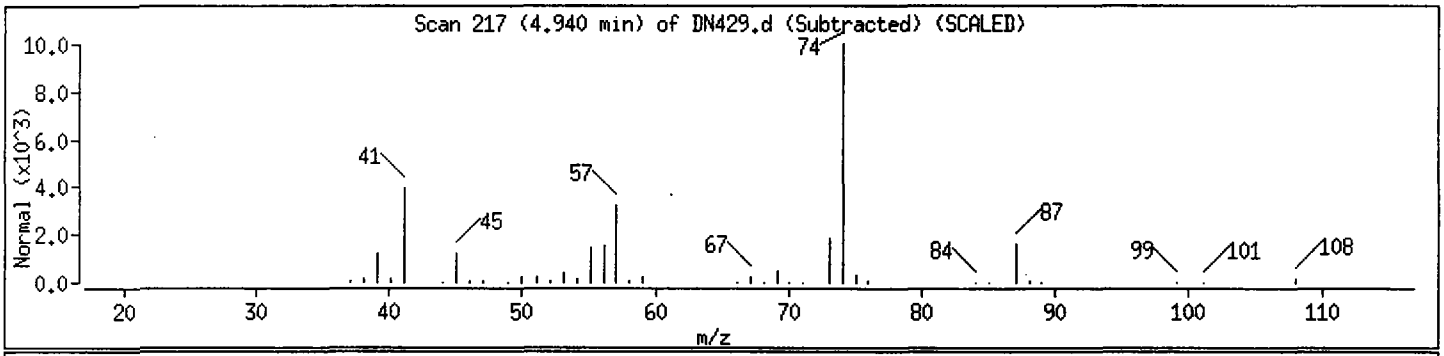
Volume Injected (uL): 1.0

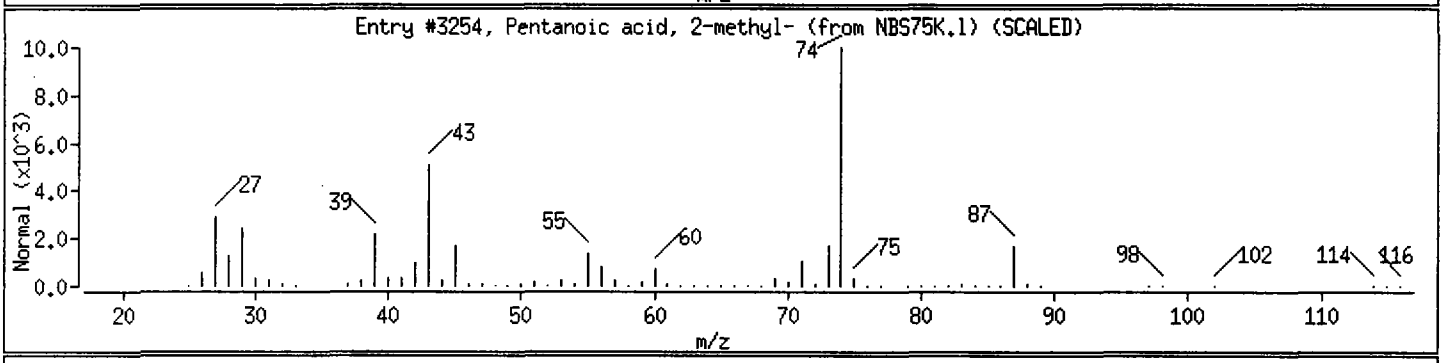
Operator: WSW

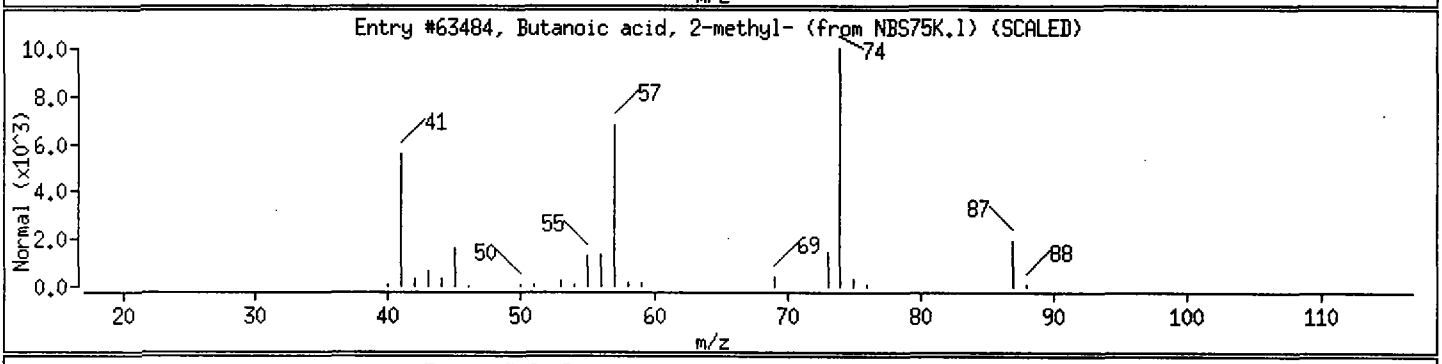
Column phase: DB-5

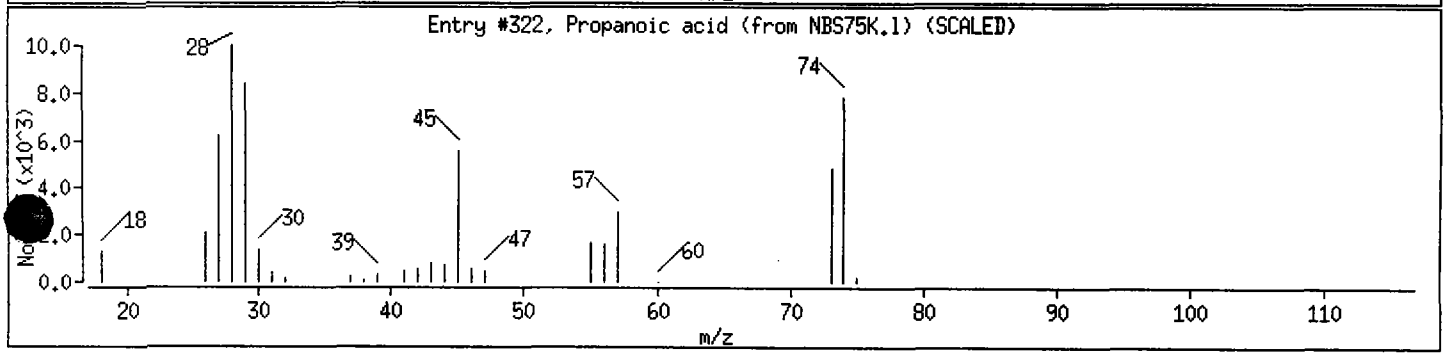
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown acid						
Pentanoic acid, 2-methyl-	97-61-0	NBS75K.l	3254	56	C6H12O2	116
Butanoic acid, 2-methyl-	116-53-0	NBS75K.l	63484	45	C5H10O2	102
Propanoic acid	79-09-4	NBS75K.l	322	36	C3H6O2	74









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

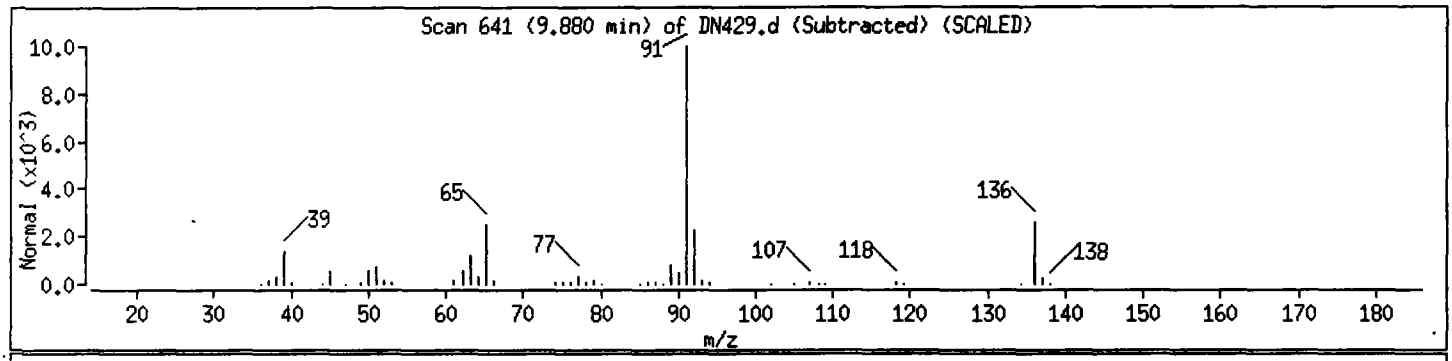
Volume Injected (uL): 1.0

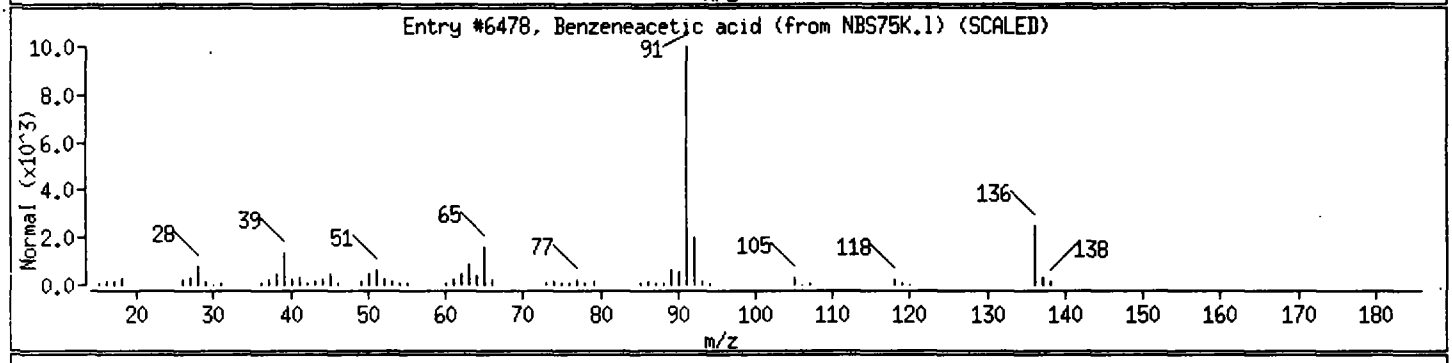
Operator: WSW

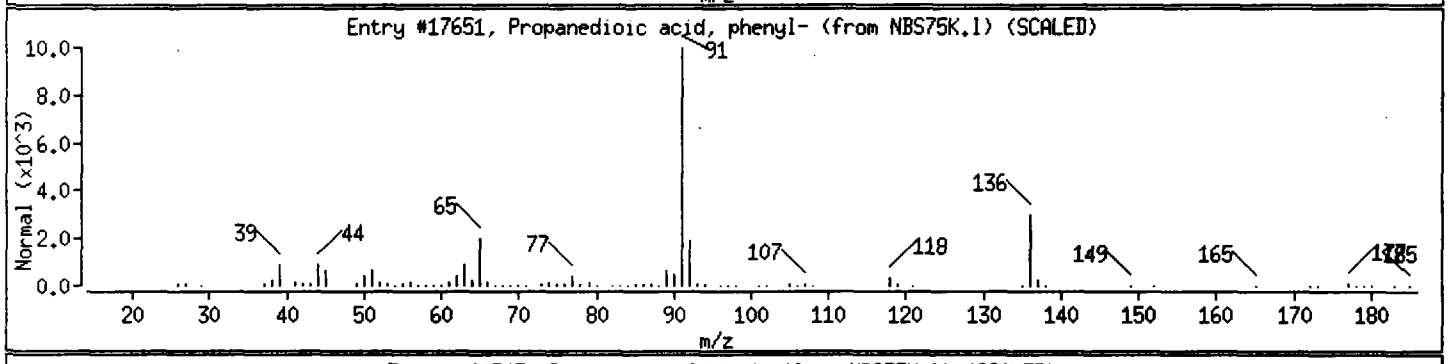
Column phase: DB-5

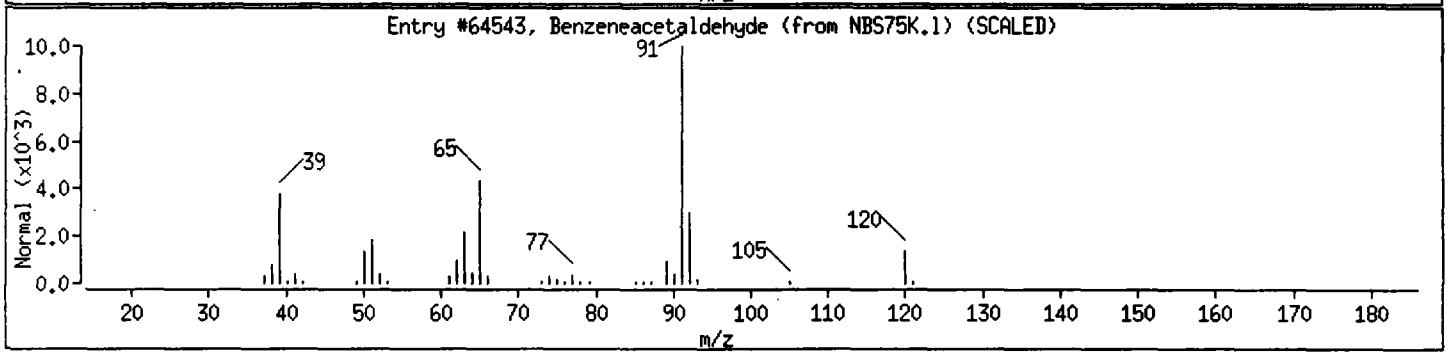
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzeneacetic acid	103-82-2	NBS75K.l	6478	87	C8H8O2	136
Propanedioic acid, phenyl-	2613-89-0	NBS75K.l	17651	86	C9H8O4	180
Benzeneacetaldehyde	122-78-1	NBS75K.l	64543	64	C8H8O	120









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

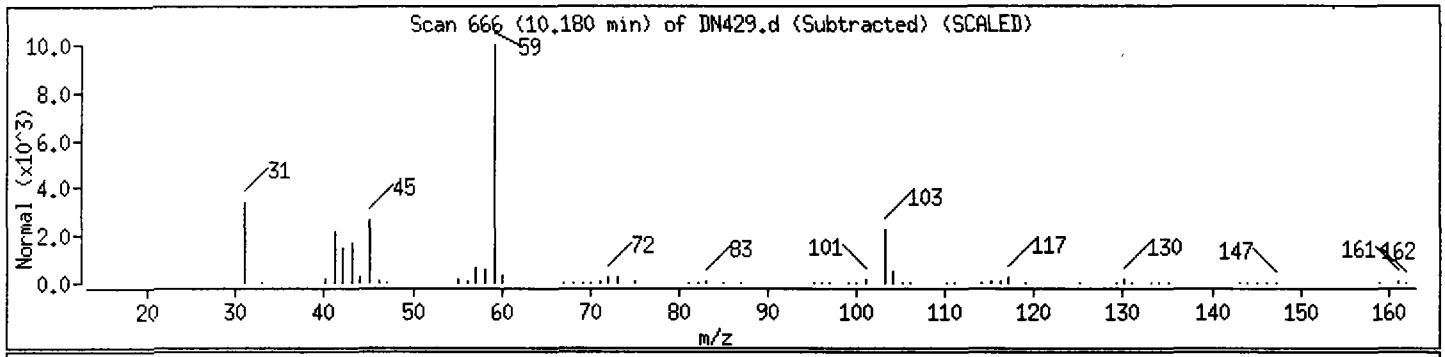
Client ID: Kearney 1000/1 Instrument: ITS5.i

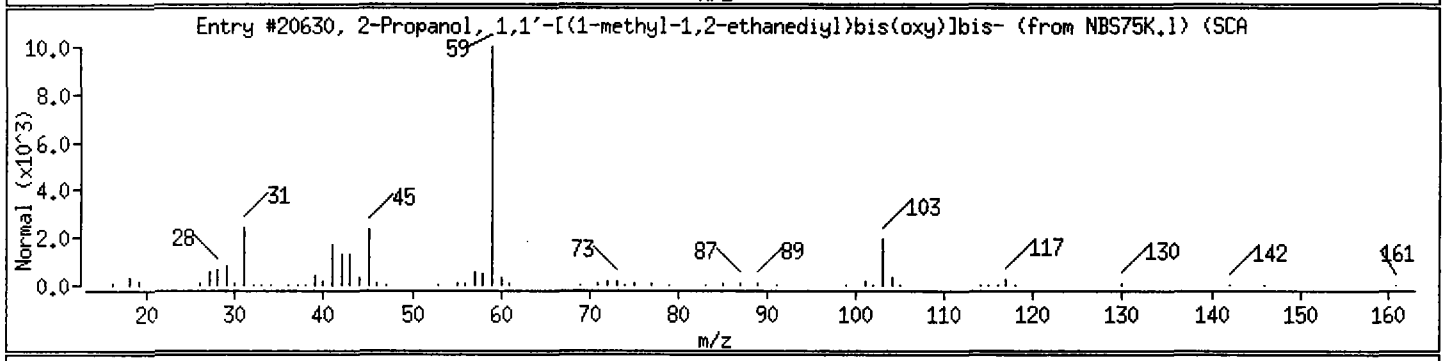
Sample Info: IL_8270_L;;AB879-90;1

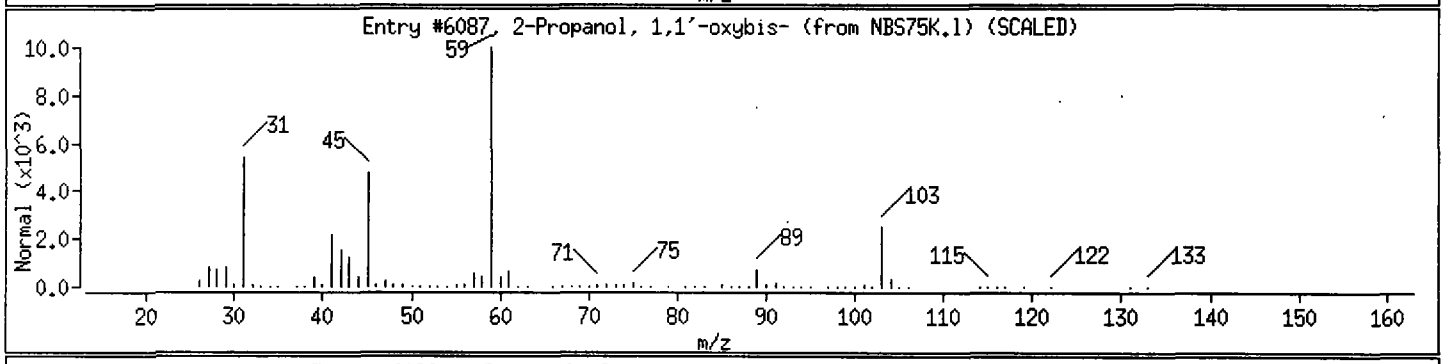
Volume Injected (uL): 1.0 Operator: WSW

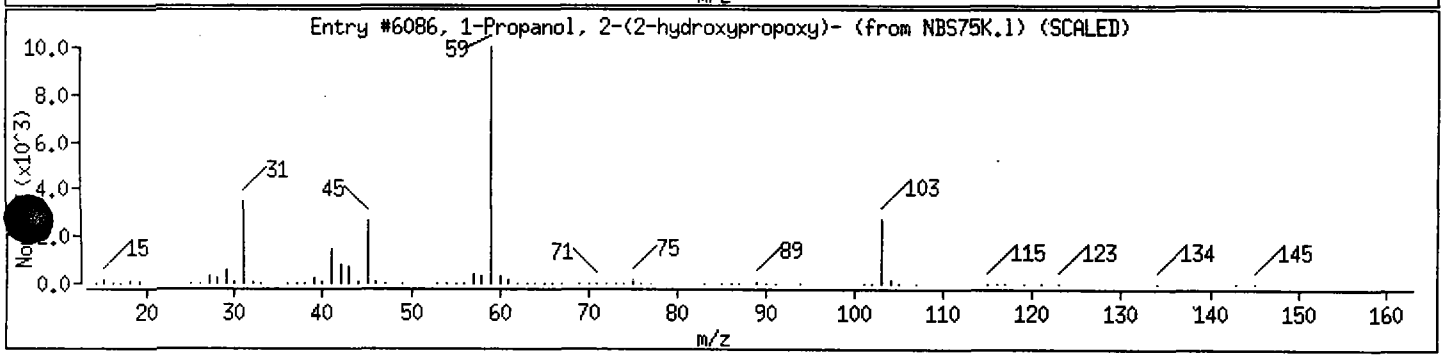
Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propanediylbisoxypropanol	1638-16-0	NBS75K.l	20630	90	C9H2004	192
2-Propanol, 1,1'-oxybis-	110-98-5	NBS75K.l	6087	83	C6H1403	134
1-Propanol, 2-(2-hydroxypropoxy)-	106-62-7	NBS75K.l	6086	83	C6H1403	134









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L::AB879-90;1

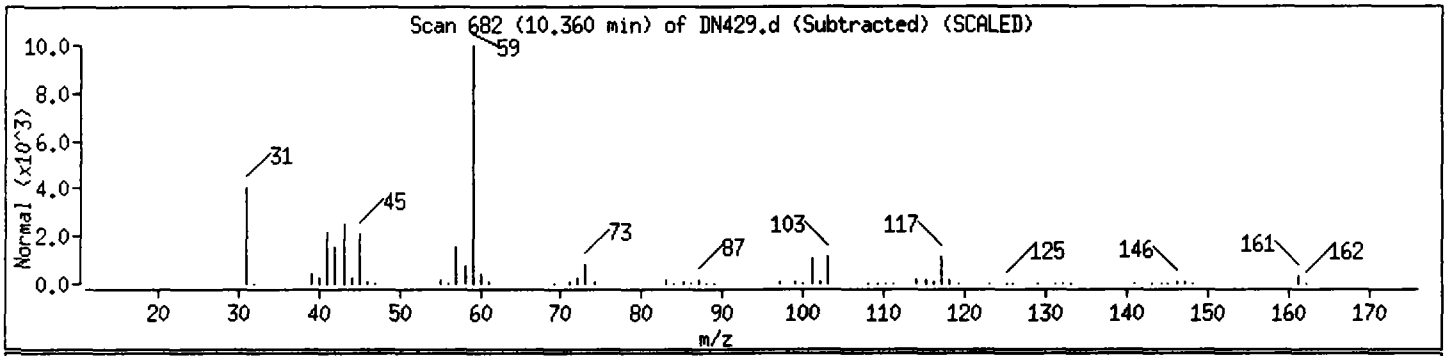
Volume Injected (uL): 1.0

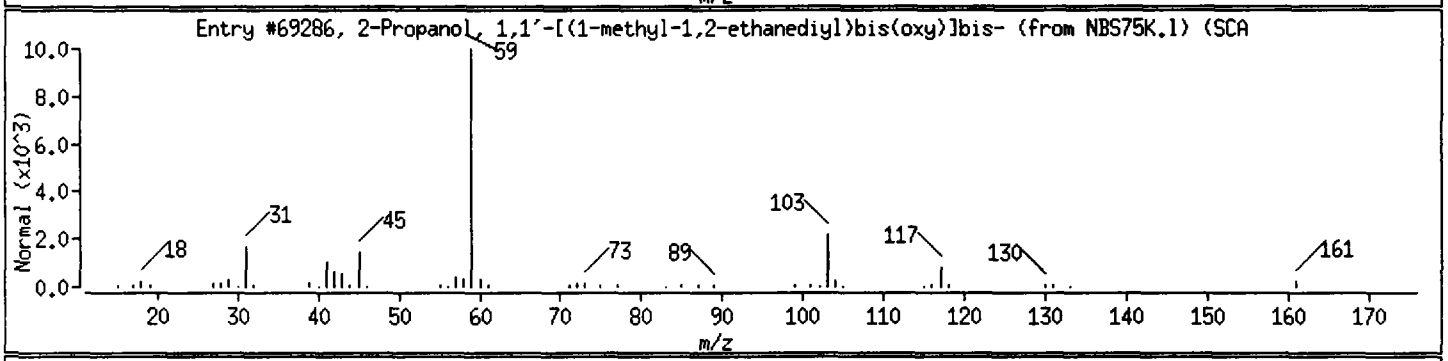
Operator: WSW

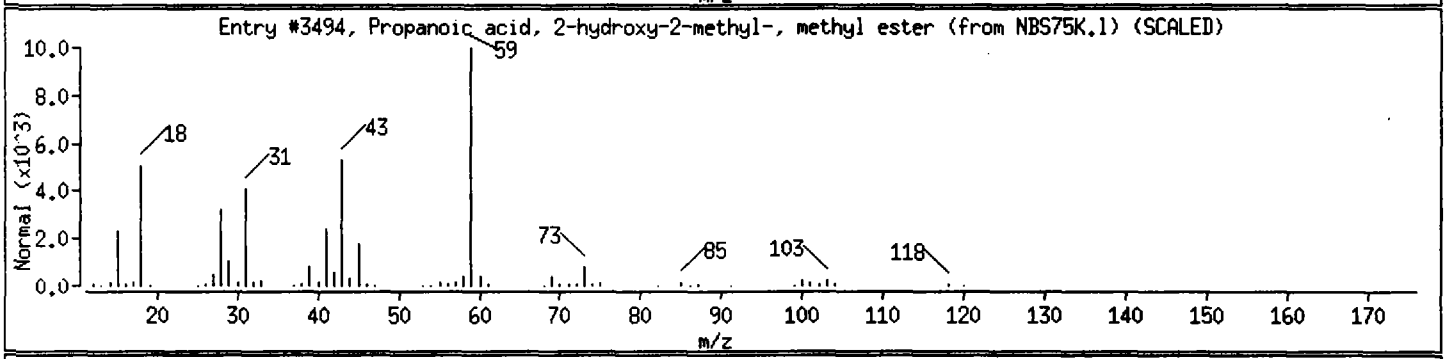
Column phase: DB-5

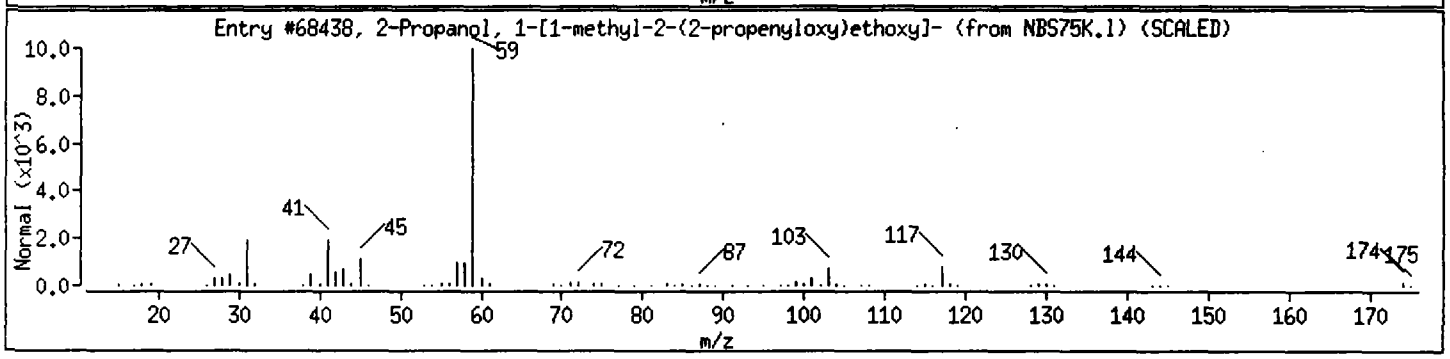
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
2-Propanol, 1,1'-[(1-methyl-1,2-ethanedi	1638-16-0	NBS75K.l	69286	78	C9H2004	192
Propanoic acid, 2-hydroxy-2-methyl-, met	2110-78-3	NBS75K.l	3494	72	C5H1003	118
2-Propanol, 1-[1-methyl-2-(2-propenyloxy	55956-25-7	NBS75K.l	68438	64	C9H1803	174









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L:;AB879-90;1

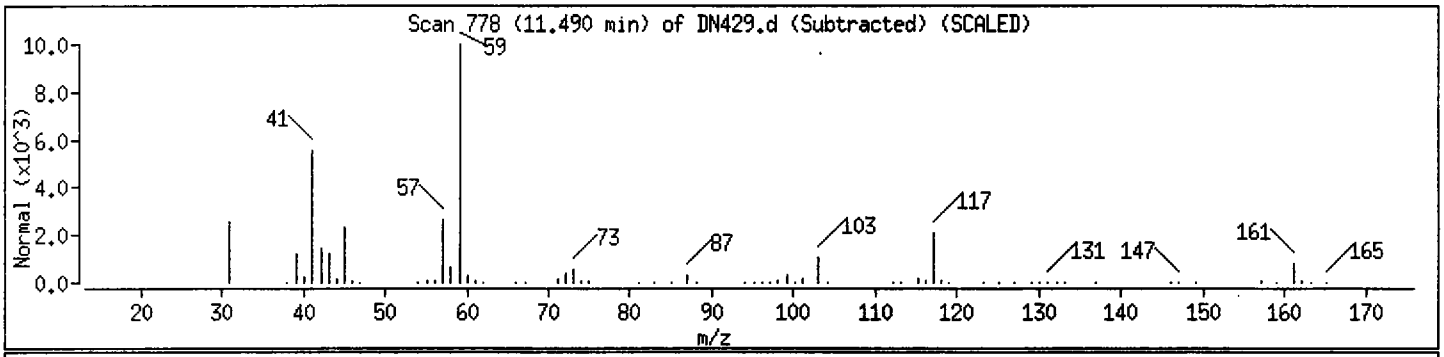
Volume Injected (uL): 1.0

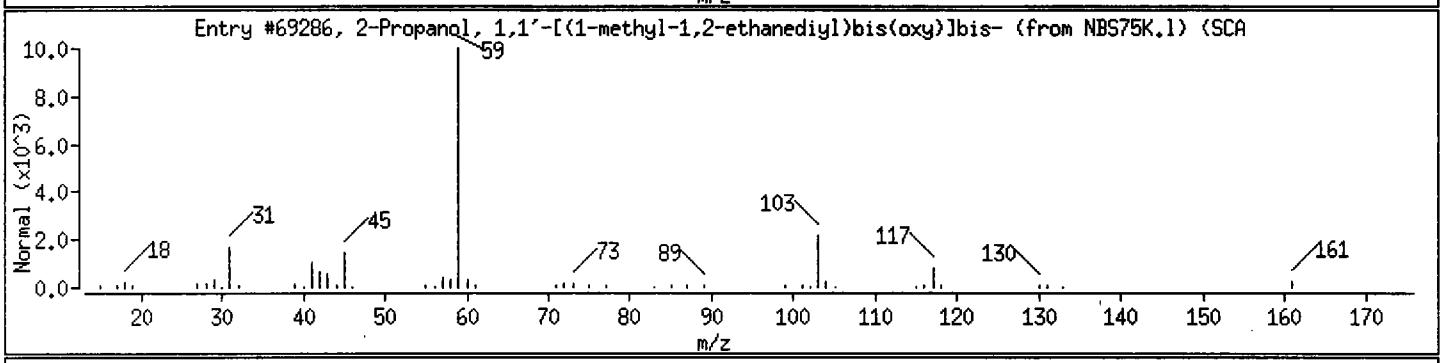
Operator: WSW

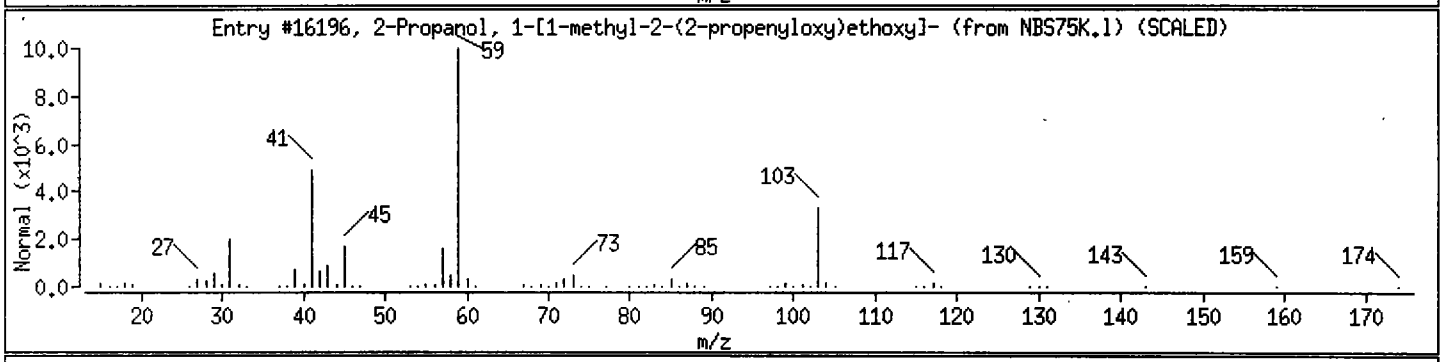
Column phase: DB-5

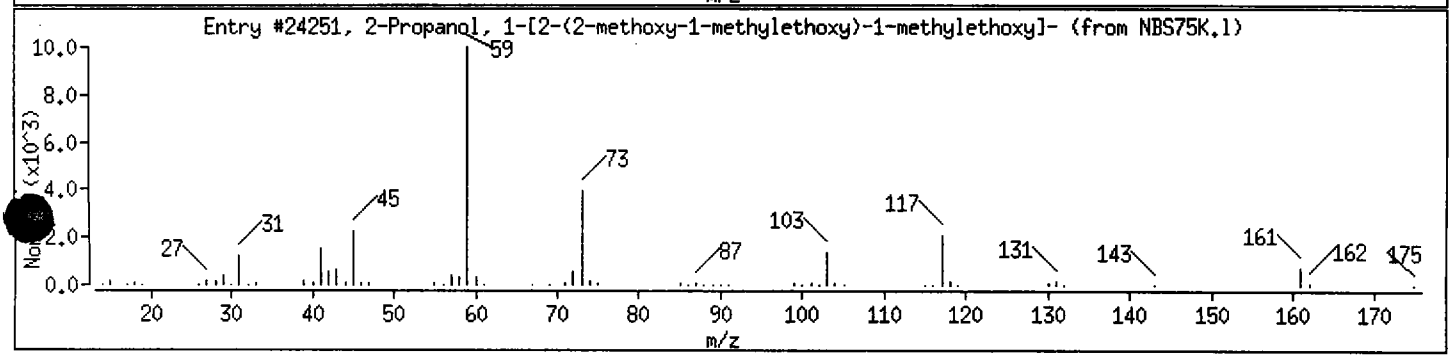
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
2-Propanol, 1,1'-[(1-methyl-1,2-ethanedi	1638-16-0	NBS75K.l	69286	72	C9H2004	192
2-Propanol, 1-[1-methyl-2-(2-propenyloxy	55956-25-7	NBS75K.l	16196	59	C9H1803	174
2-Propanol, 1-[2-(2-methoxy-1-methyletho	20324-33-8	NBS75K.l	24251	56	C10H2204	206









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

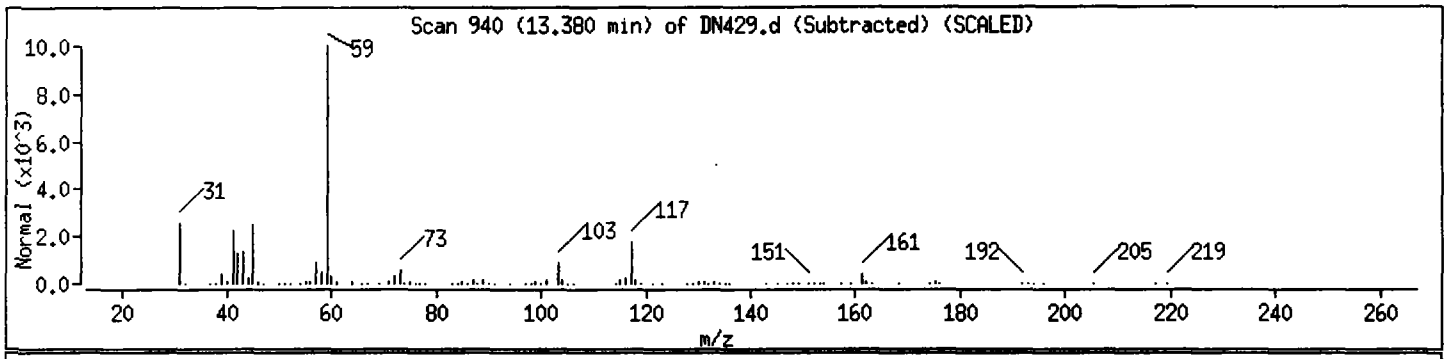
Client ID: Kearney 1000/1 Instrument: ITS5.i

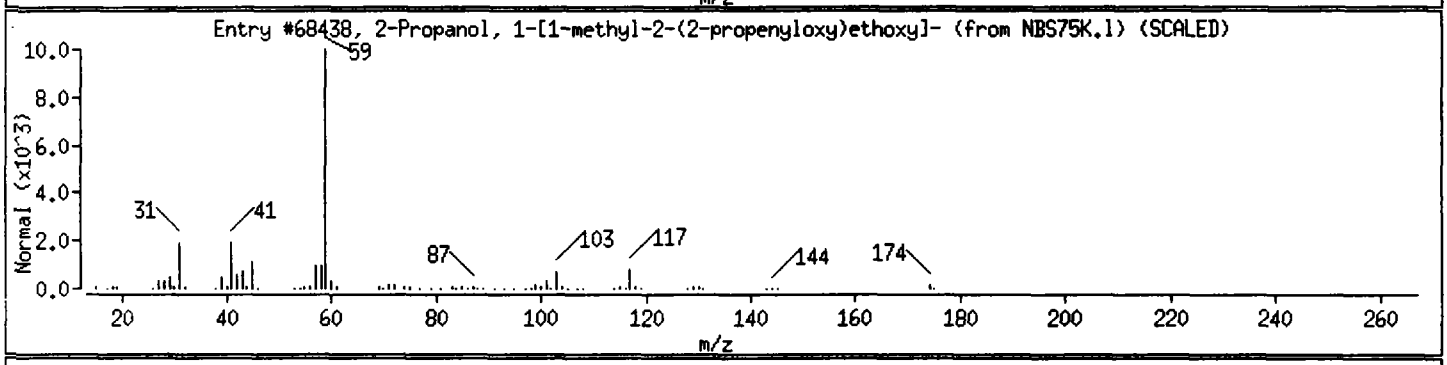
Sample Info: IL_8270_L;;AB879-90;1

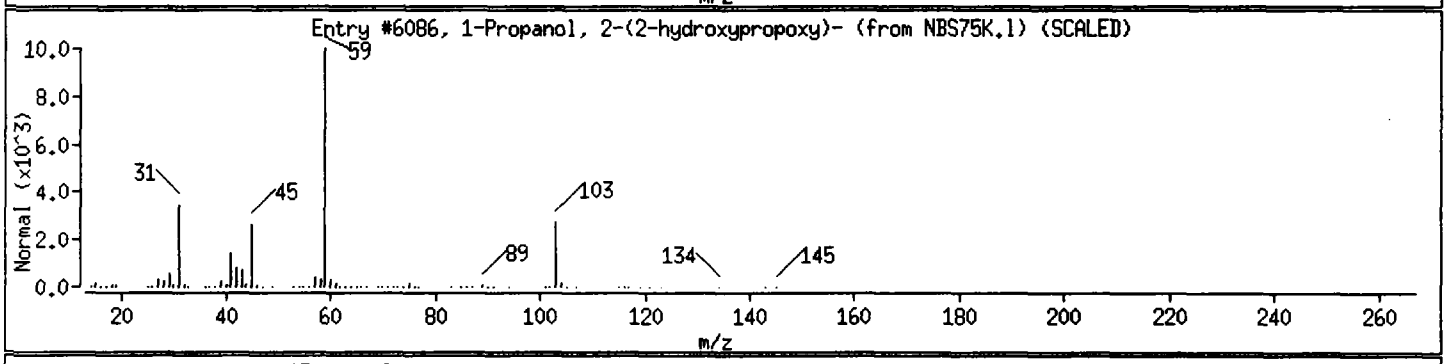
Volume Injected (uL): 1.0 Operator: WSW

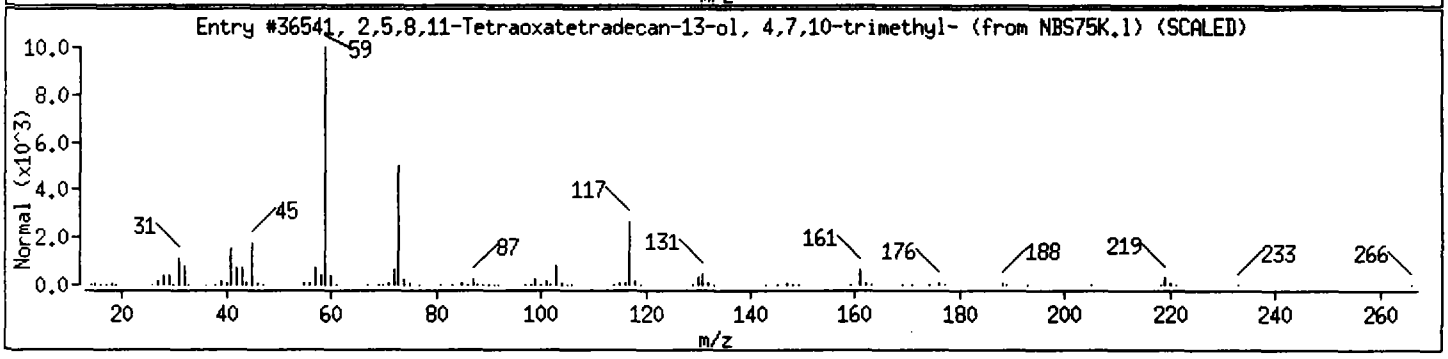
Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
2-Propanol, 1-[1-methyl-2-(2-propenyloxy	55956-25-7	NBS75K.l	68438	64	C9H18O3	174
1-Propanol, 2-(2-hydroxypropoxy)-	106-62-7	NBS75K.l	6086	64	C6H14O3	134
2,5,8,11-Tetraoxatetradecan-13-ol, 4,7,1	20324-34-9	NBS75K.l	36541	64	C13H28O5	264









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

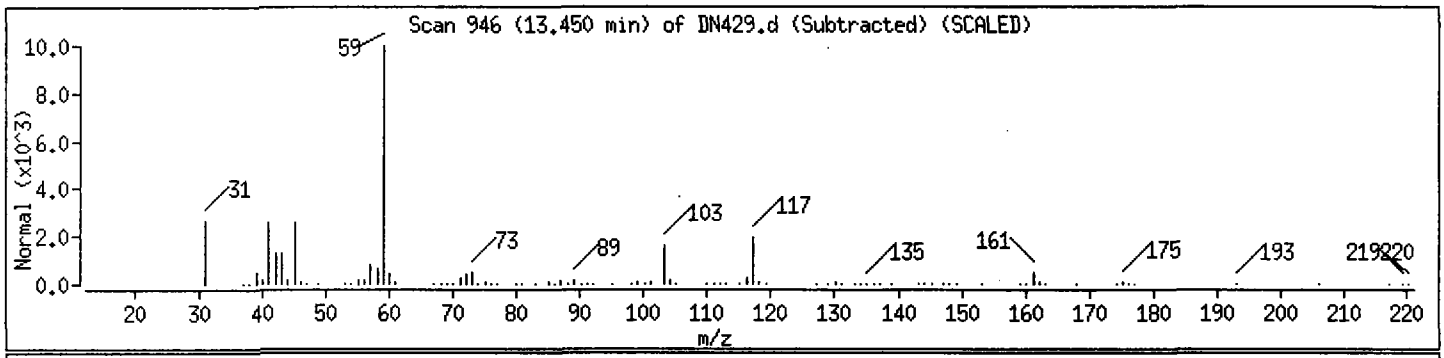
Volume Injected (uL): 1.0

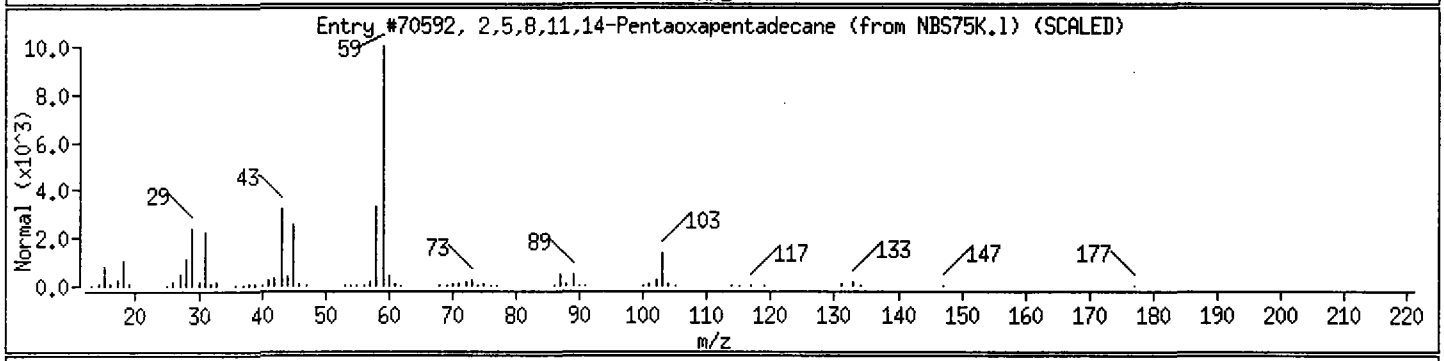
Operator: WSW

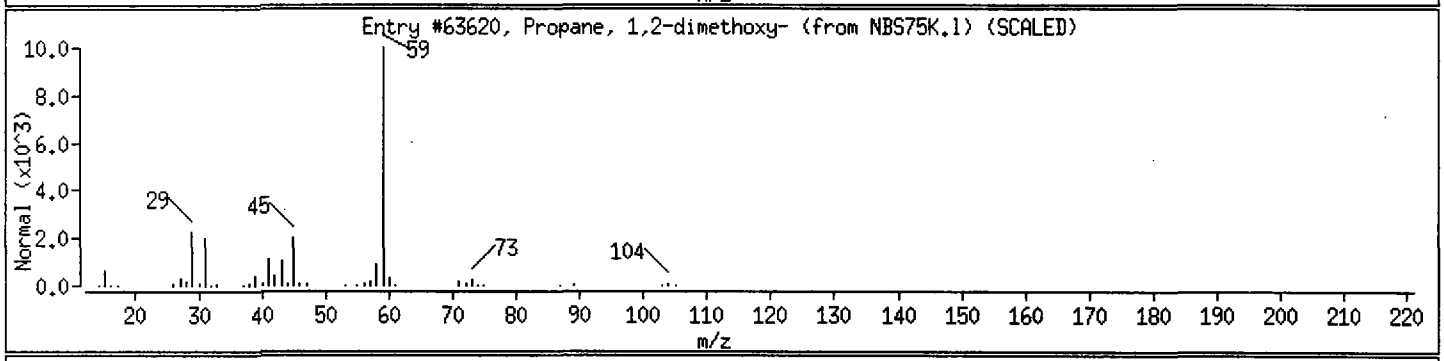
Column phase: DB-5

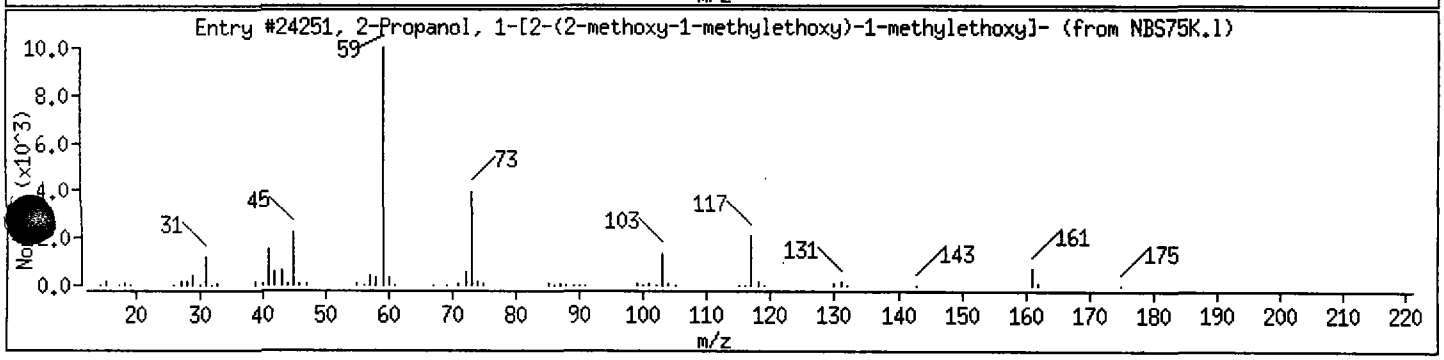
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
2,5,8,11,14-Pentaoxapentadecane	143-24-8	NBS75K.l	70592	64	C10H22O5	222
Propane, 1,2-dimethoxy-	7778-85-0	NBS75K.l	63620	64	C5H12O2	104
2-Propanol, 1-[2-(2-methoxy-1-methyletho	20324-33-8	NBS75K.l	24251	64	C10H22O4	206









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

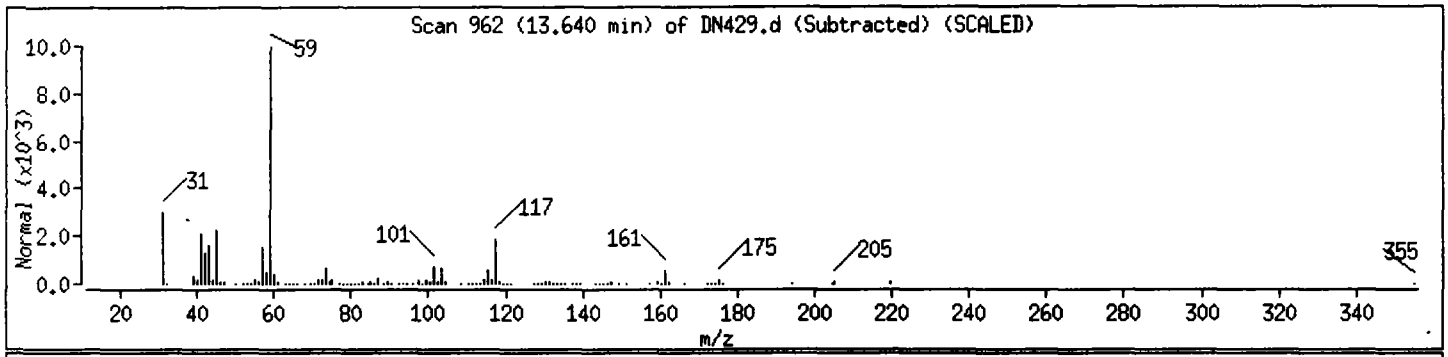
Client ID: Kearney 1000/1 Instrument: ITS5.i

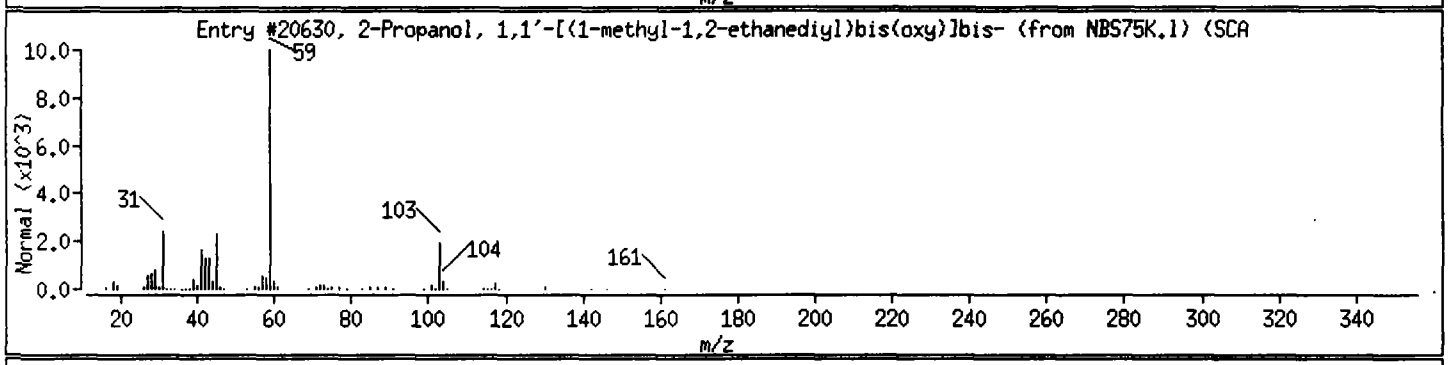
Sample Info: IL_8270_L;;AB879-90;1

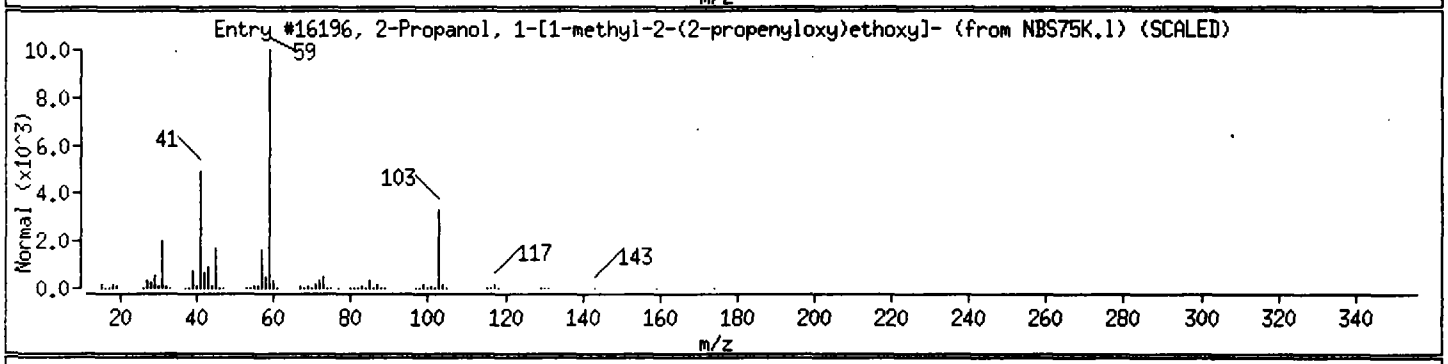
Volume Injected (uL): 1.0 Operator: WSW

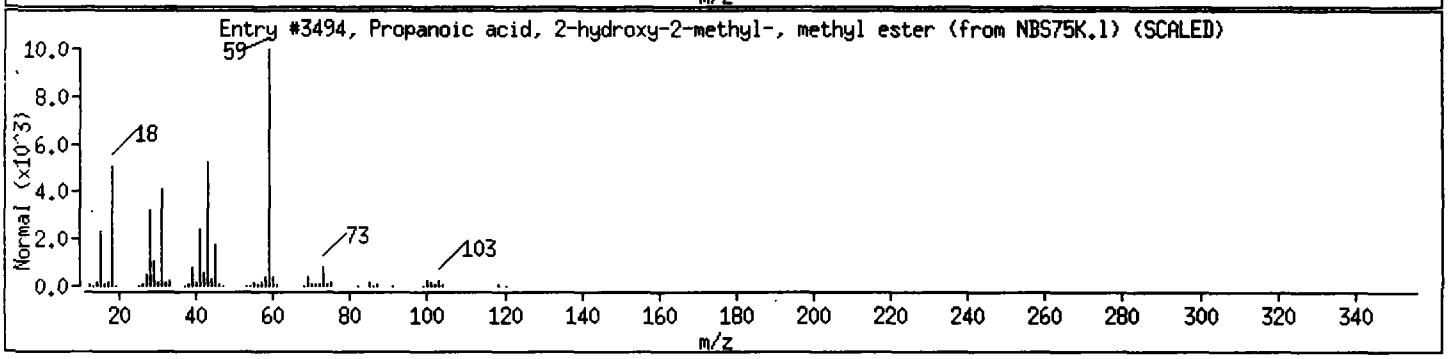
Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
2-Propanol, 1,1'-[(1-methyl-1,2-ethanedi	1638-16-0	NBS75K.l	20630	72	C9H2004	192
2-Propanol, 1-[1-methyl-2-(2-propenyloxy	55956-25-7	NBS75K.l	16196	72	C9H1803	174
Propanoic acid, 2-hydroxy-2-methyl-, met	2110-78-3	NBS75K.l	3494	72	C5H1003	118









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

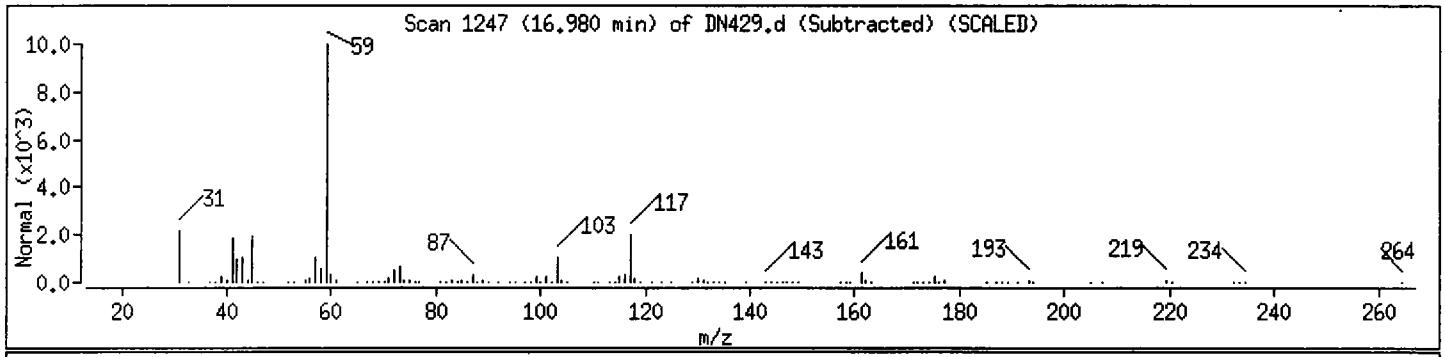
Volume Injected (uL): 1.0

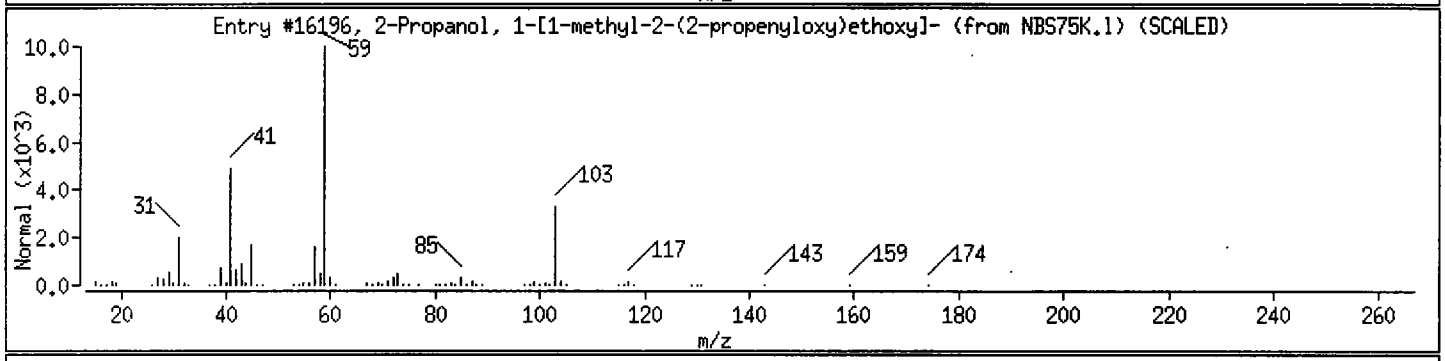
Operator: WSW

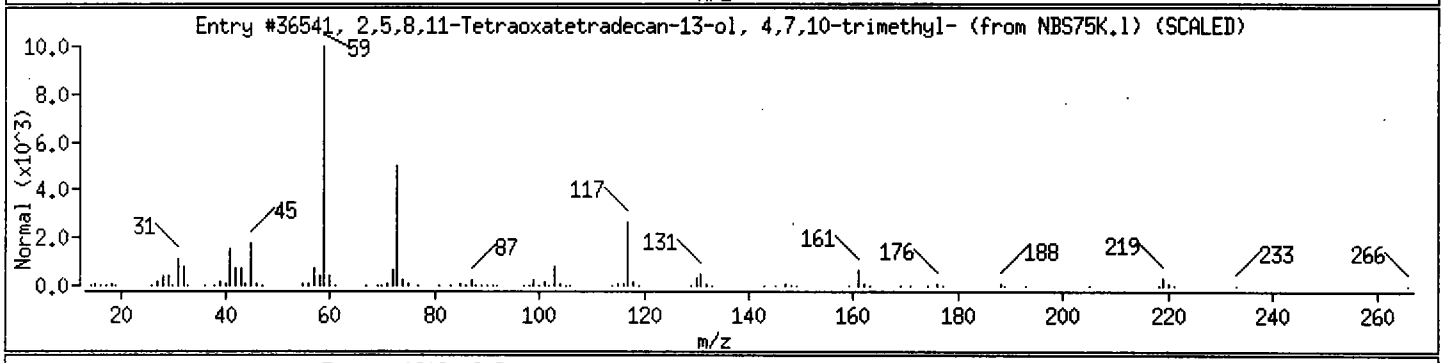
Column phase: DB-5

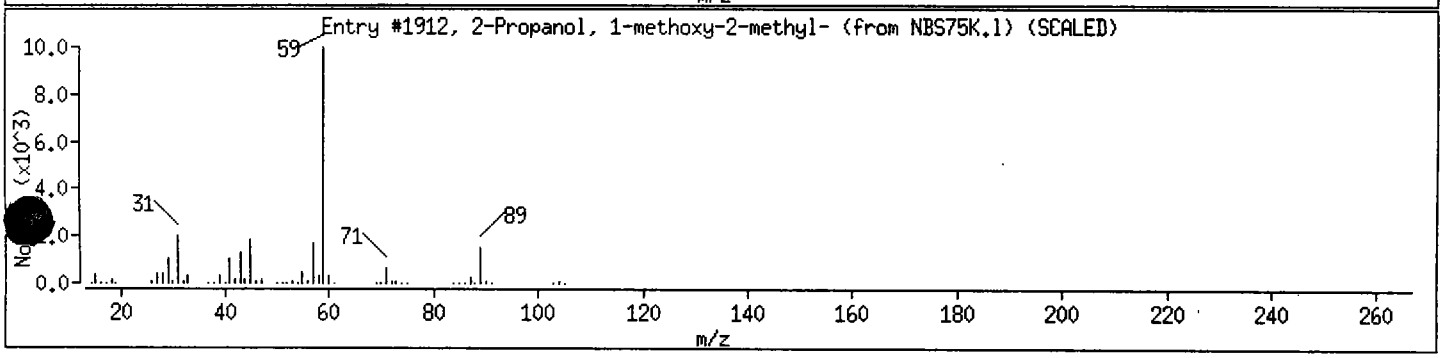
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
2-Propanol, 1-[1-methyl-2-(2-propenyloxy	55956-25-7	NBS75K.l	16196	64	C9H1803	174
2,5,8,11-Tetraoxatetradecan-13-ol, 4,7,1	20324-34-9	NBS75K.l	36541	59	C13H2805	264
2-Propanol, 1-methoxy-2-methyl-	3587-64-2	NBS75K.l	1912	53	C5H1202	104









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

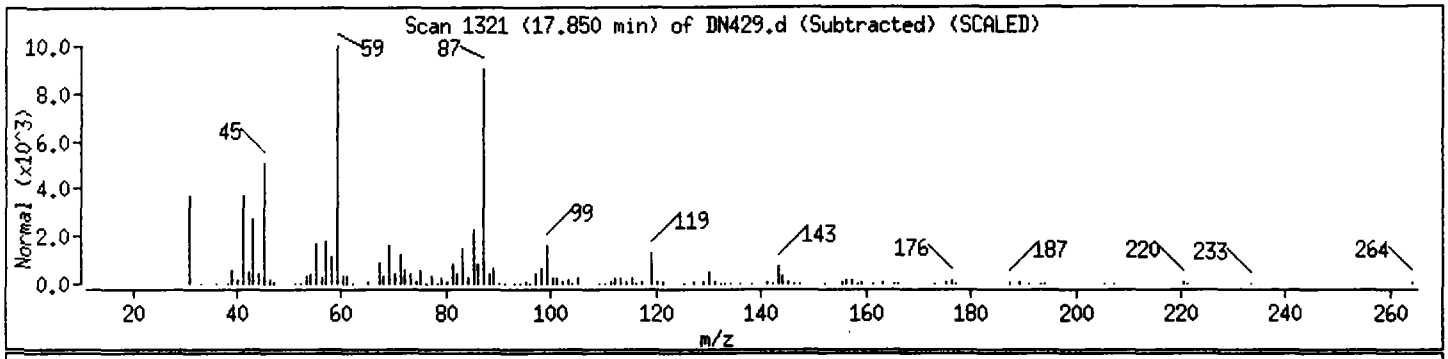
Volume Injected (uL): 1.0

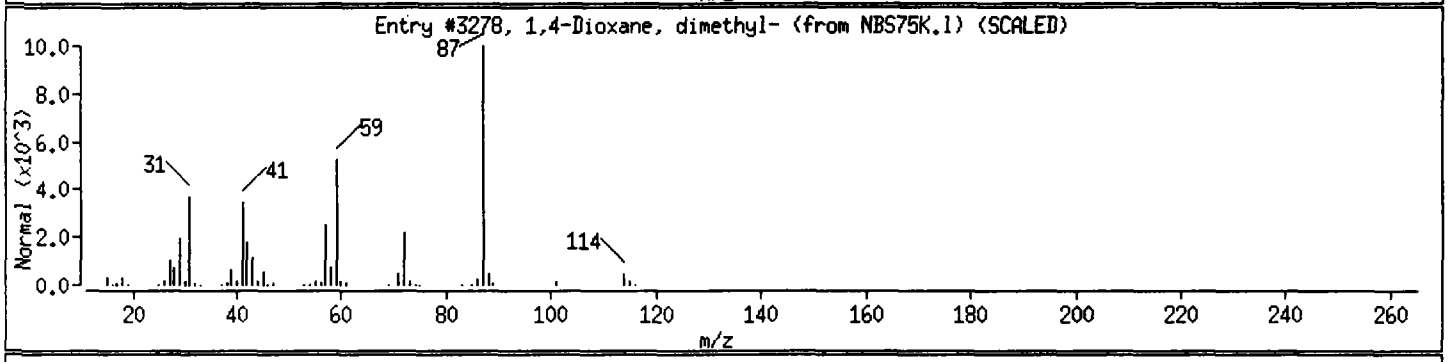
Operator: WSW

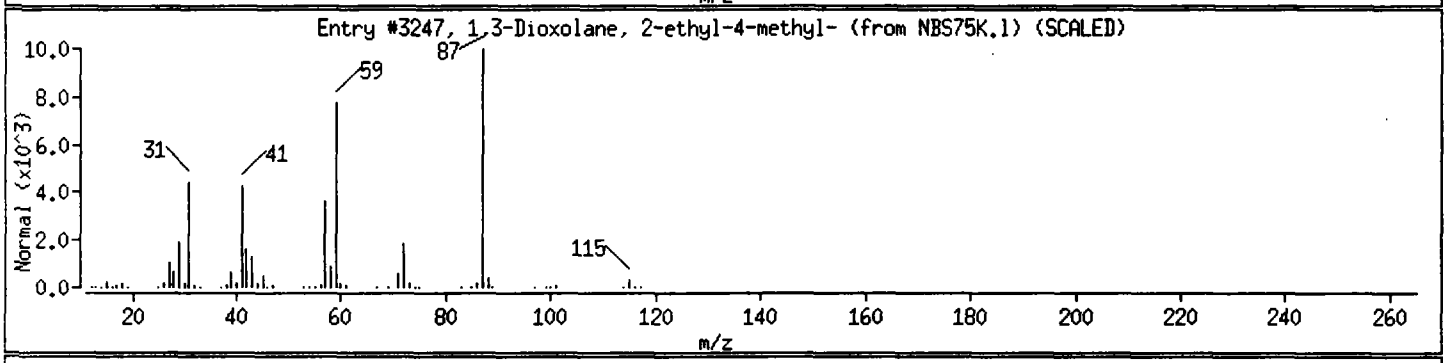
Column phase: DB-5

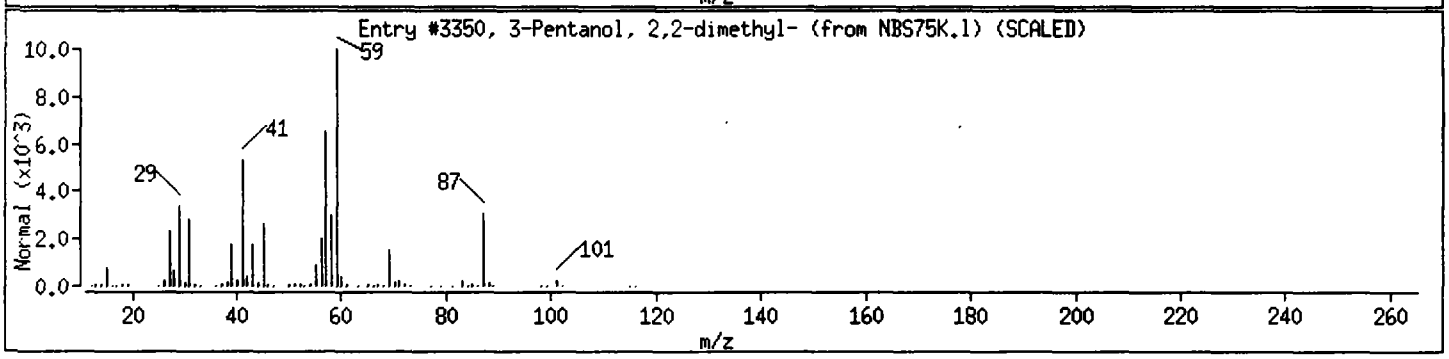
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
1,4-Dioxane, dimethyl-	25136-55-4	NBS75K.l	3278	50	C6H12O2	116
1,3-Dioxolane, 2-ethyl-4-methyl-	4359-46-0	NBS75K.l	3247	50	C6H12O2	116
3-Pentanol, 2,2-dimethyl-	3970-62-5	NBS75K.l	3350	38	C7H16O	116









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

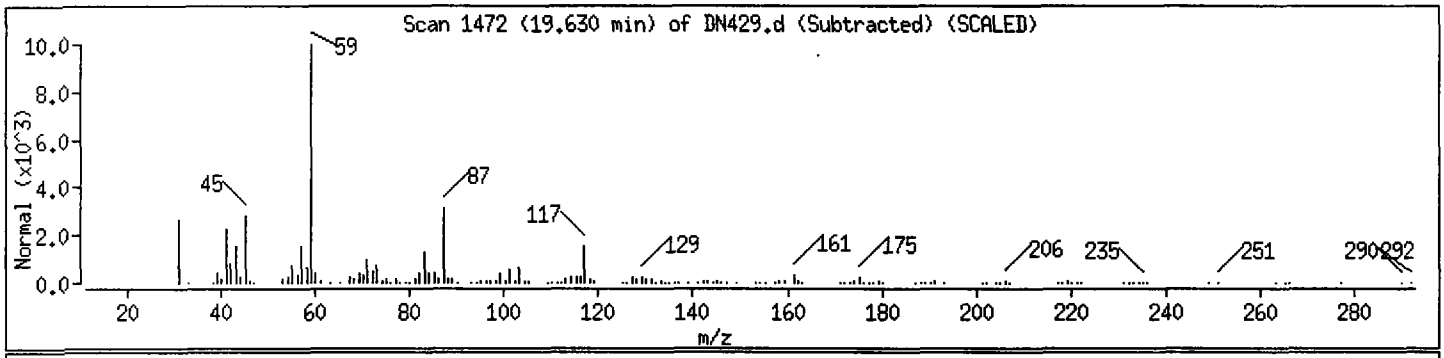
Volume Injected (uL): 1.0

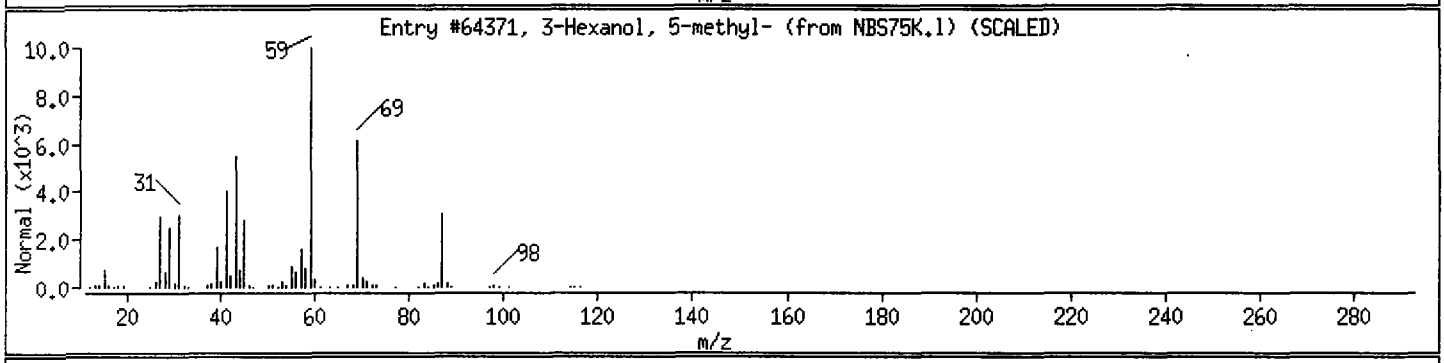
Operator: WSW

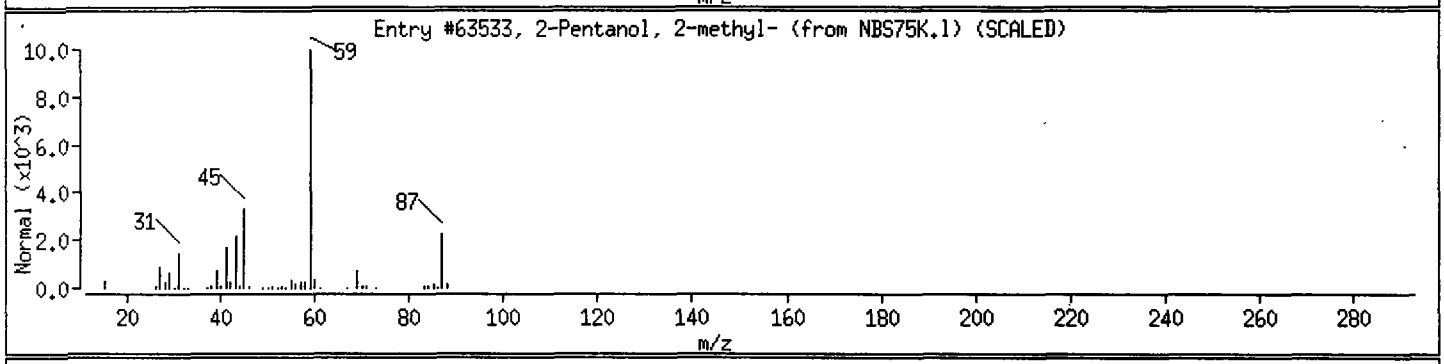
Column phase: DB-5

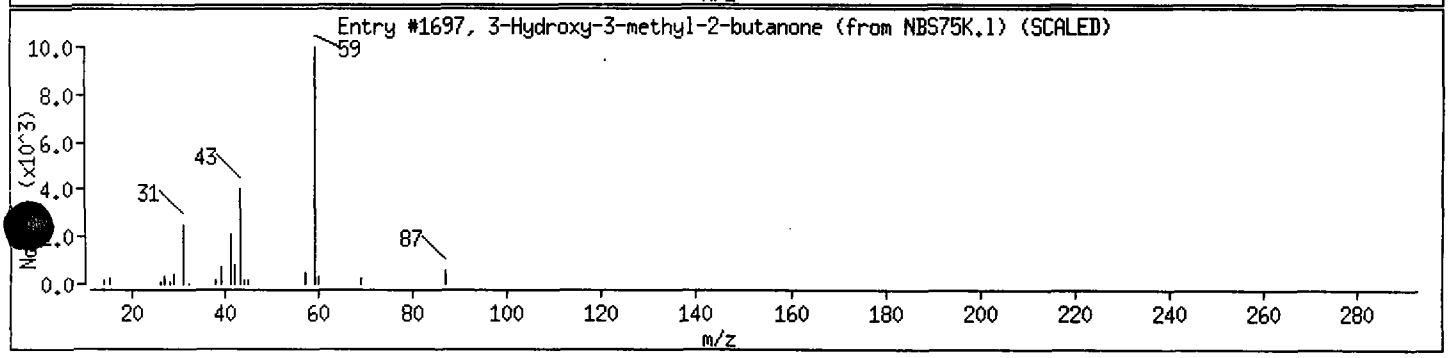
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
3-Hexanol, 5-methyl-	623-55-2	NBS75K.l	64371	64	C7H16O	116
2-Pentanol, 2-methyl-	590-36-3	NBS75K.l	63533	59	C6H14O	102
3-Hydroxy-3-methyl-2-butanone	115-22-0	NBS75K.l	1697	53	C5H10O2	102









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

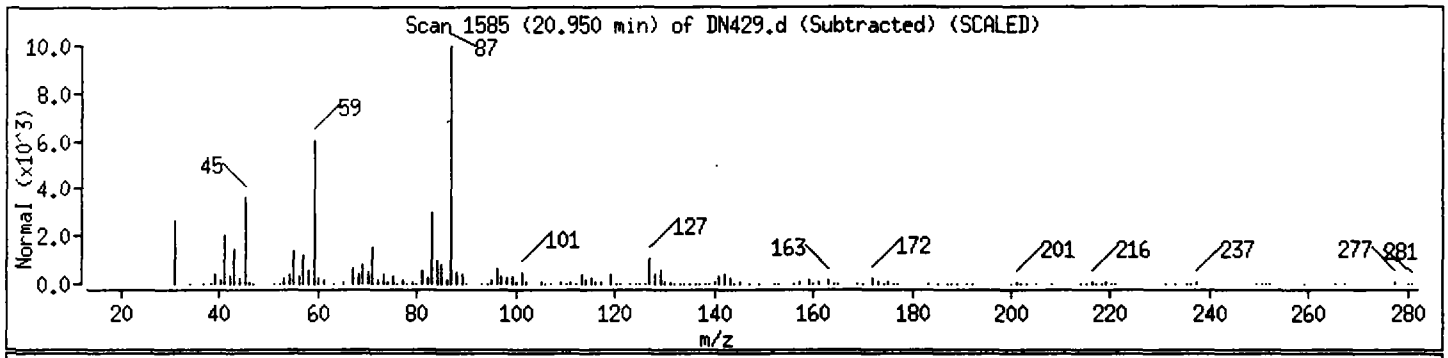
Client ID: Kearney 1000/1 Instrument: ITS5.i

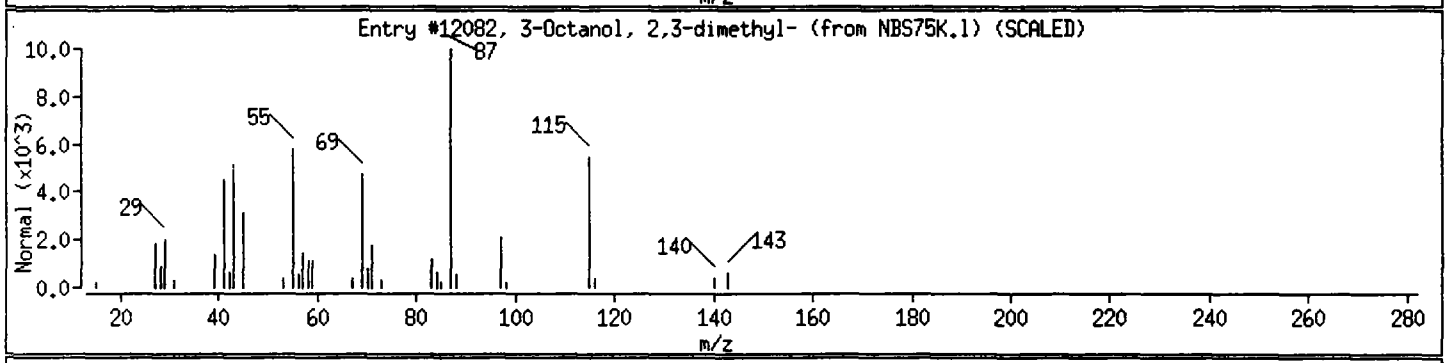
Sample Info: IL_8270_L;;AB879-90;1

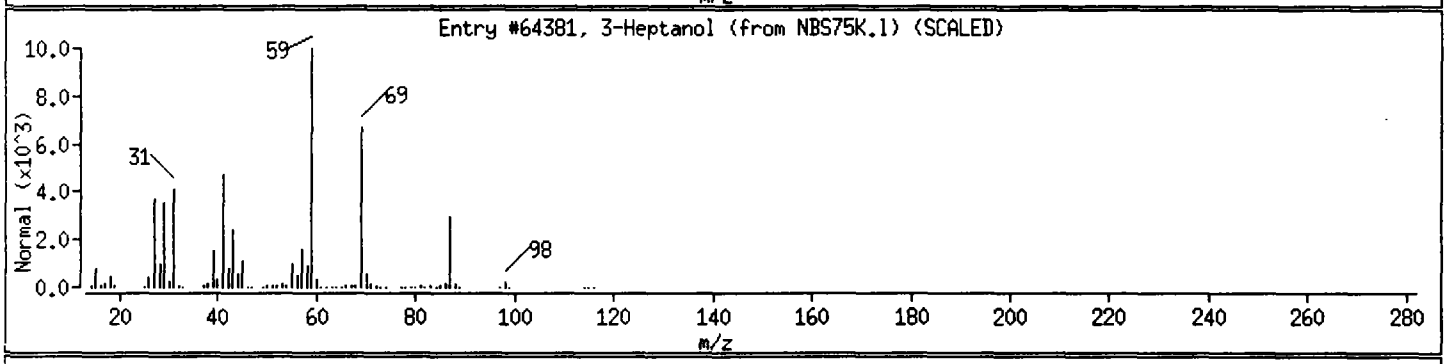
Volume Injected (uL): 1.0 Operator: WSW

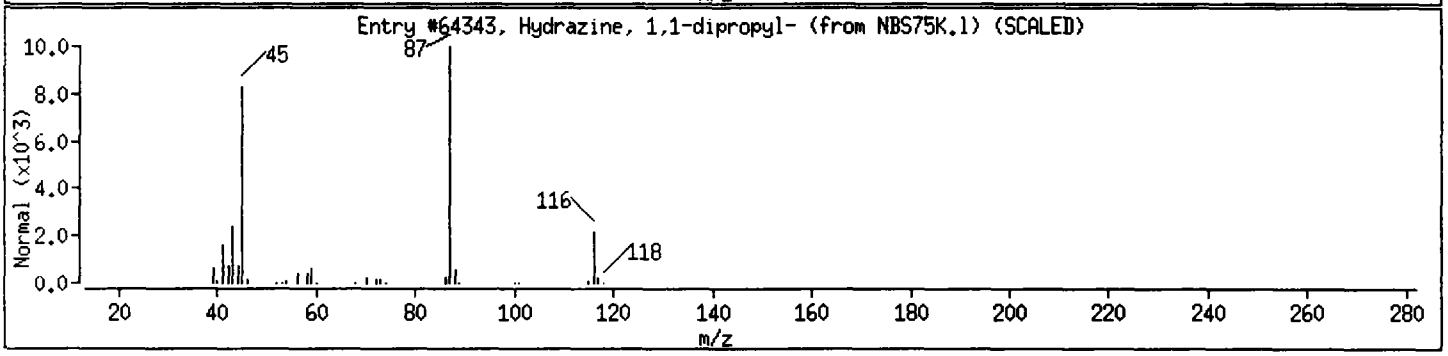
Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alcohol						
3-Octanol, 2,3-dimethyl-	19781-10-3	NBS75K.l	12082	47	C10H22O	158
3-Heptanol	589-82-2	NBS75K.l	64381	47	C7H16O	116
Hydrazine, 1,1-dipropyl-	4986-50-9	NBS75K.l	64343	46	C6H16N2	116









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

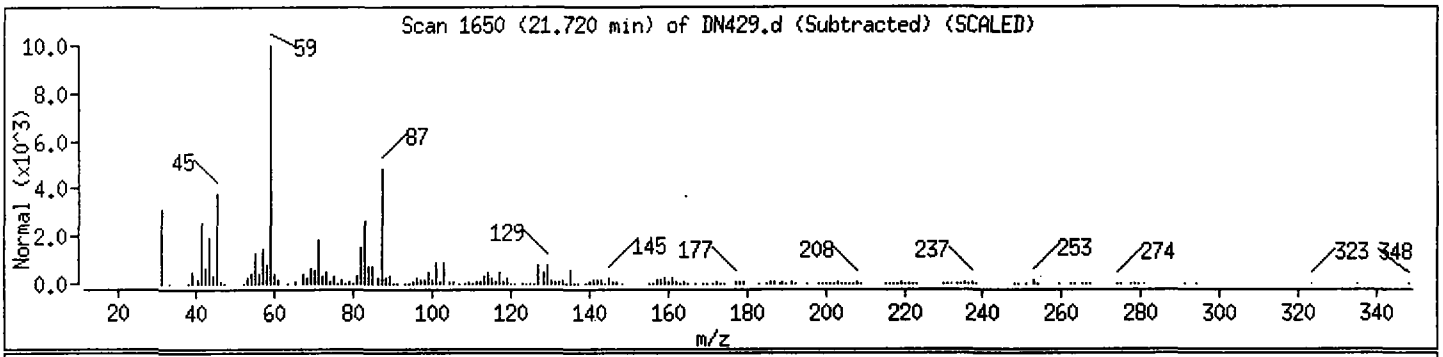
Volume Injected (uL): 1.0

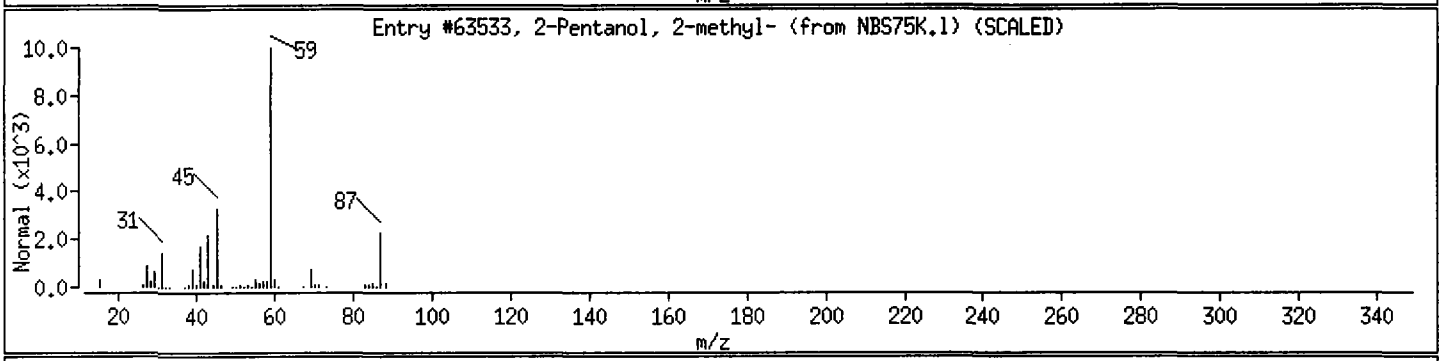
Operator: WSW

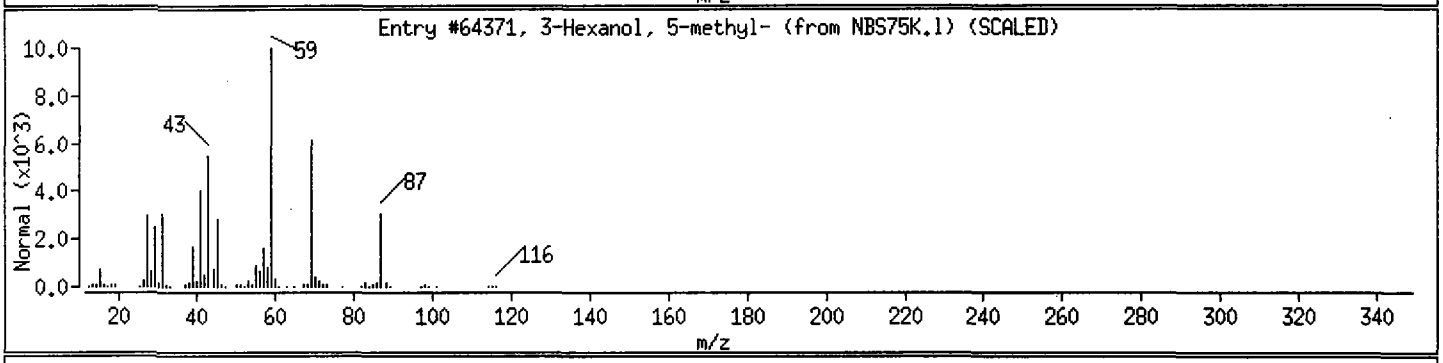
Column phase: DB-5

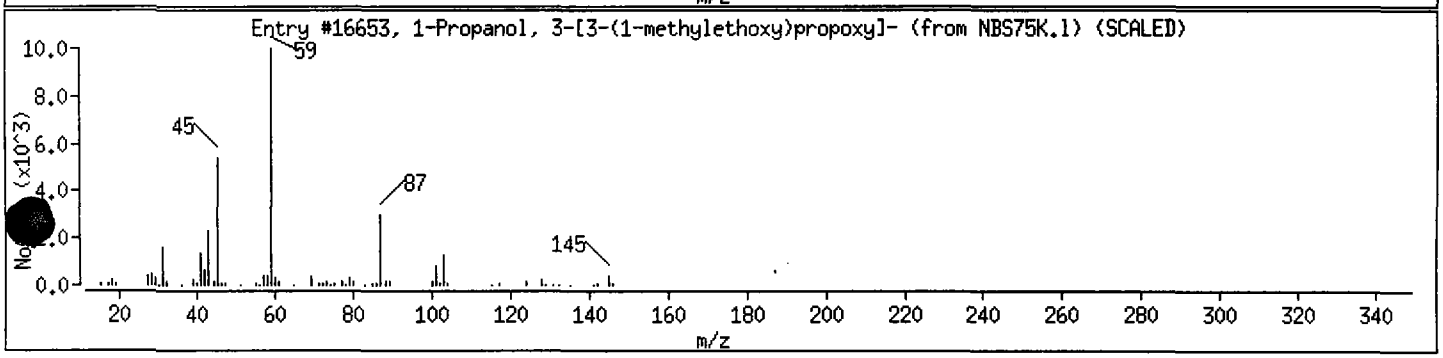
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
2-Pentanol, 2-methyl-	590-36-3	NBS75K.l	63533	59	C6H14O	102
3-Hexanol, 5-methyl-	623-55-2	NBS75K.l	64371	53	C7H16O	116
1-Propanol, 3-[3-(1-methylethoxy)propoxy	54518-03-5	NBS75K.l	16653	53	C9H20O3	176









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;ABB79-90;1

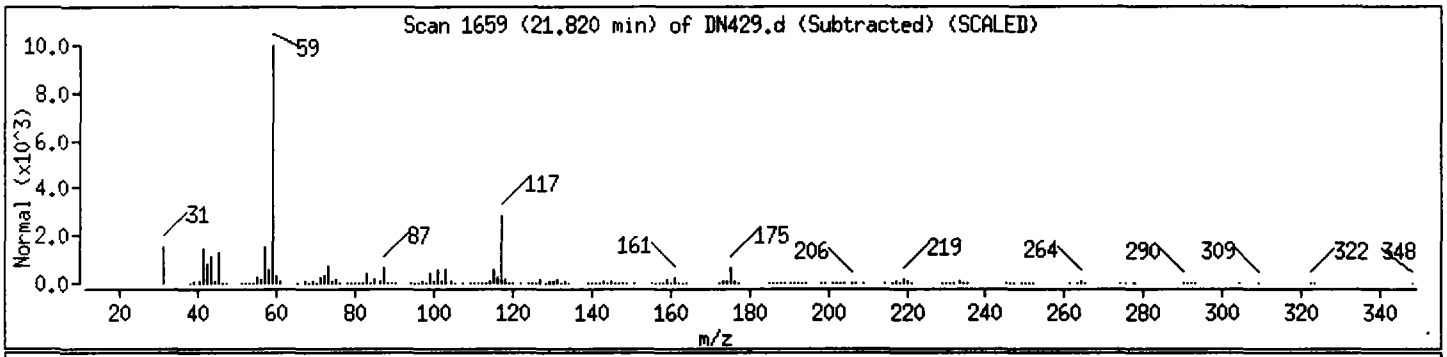
Volume Injected (uL): 1.0

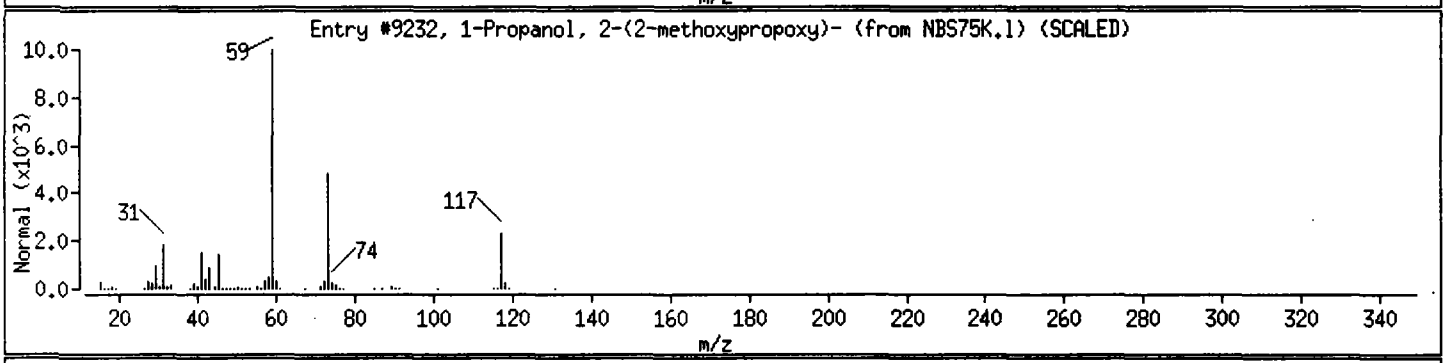
Operator: WSW

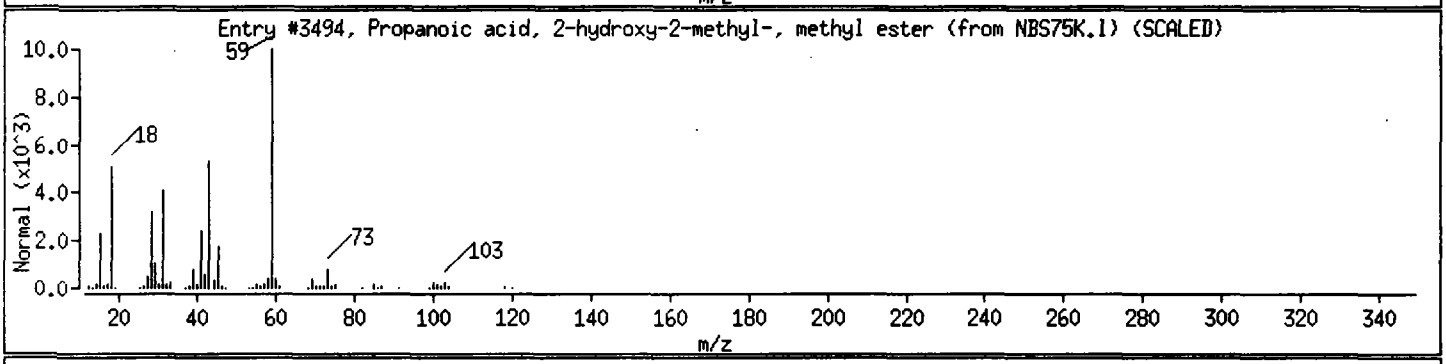
Column phase: DB-5

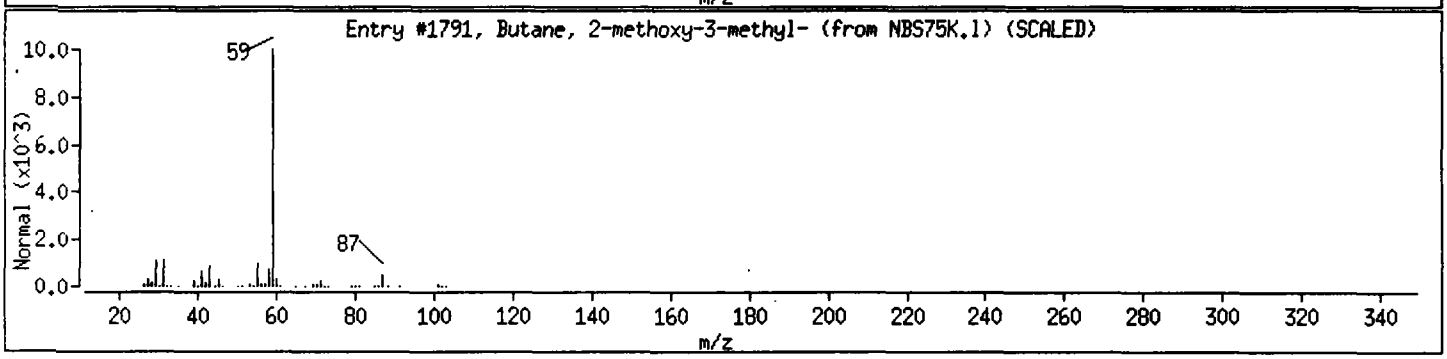
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
1-Propanol, 2-(2-methoxypropoxy)-	13588-28-8	NBS75K.l	9232	53	C7H16O3	148
Propanoic acid, 2-hydroxy-2-methyl-, met	2110-78-3	NBS75K.l	3494	50	C5H10O3	118
Butane, 2-methoxy-3-methyl-	62016-49-3	NBS75K.l	1791	47	C6H14O	102









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

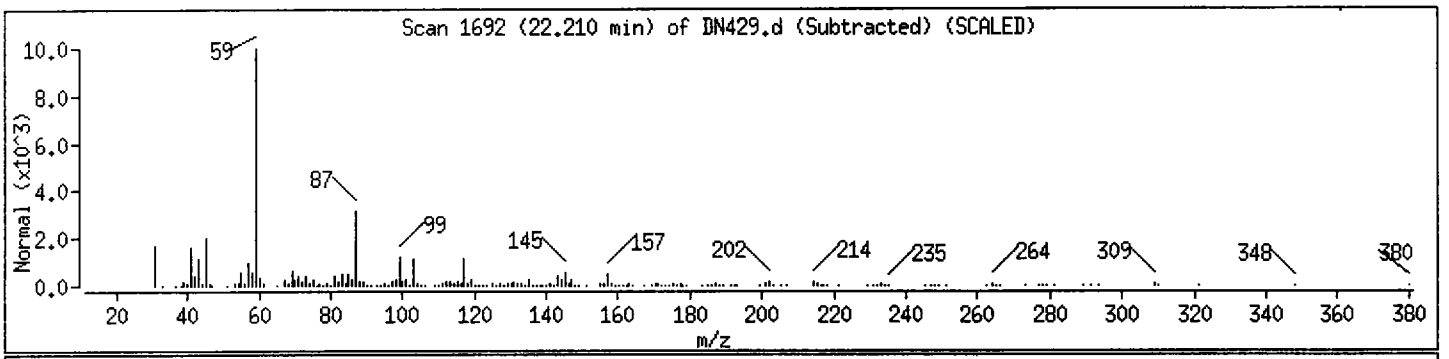
Client ID: Kearney 1000/1 Instrument: ITS5.i

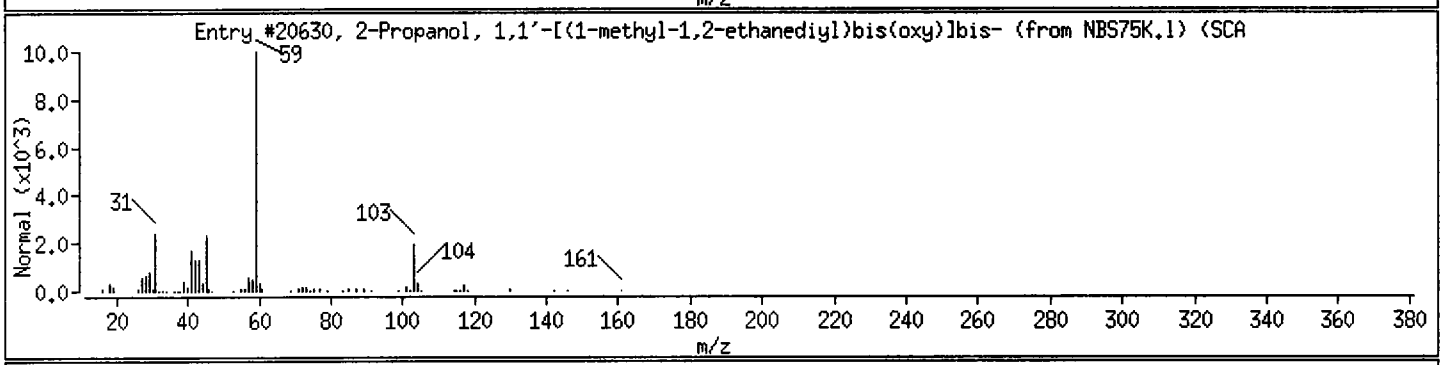
Sample Info: IL_8270_L;;AB879-90;1

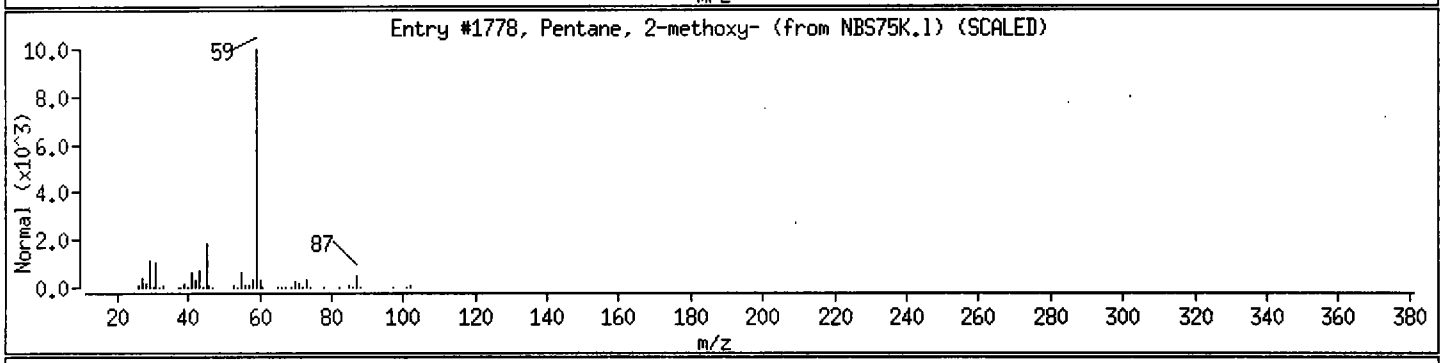
Volume Injected (uL): 1.0 Operator: WSW

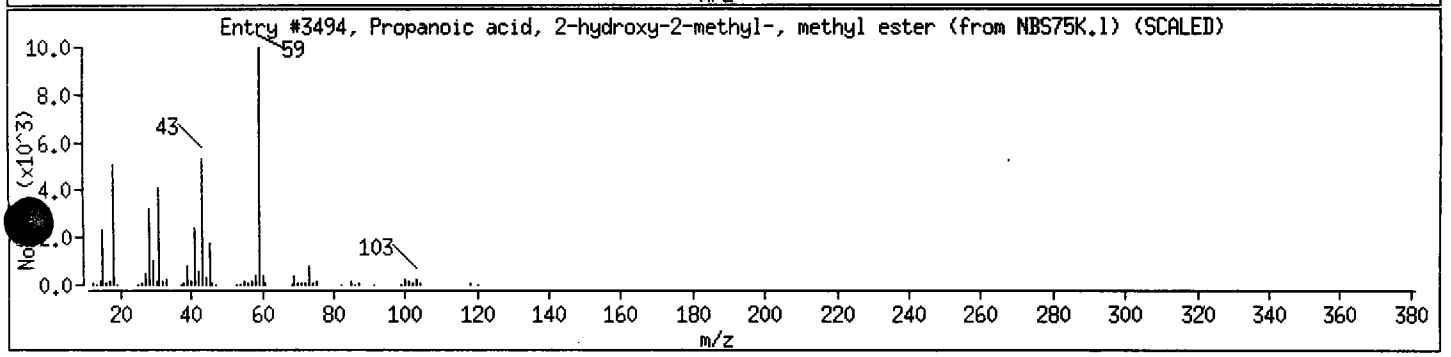
Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
2-Propanol, 1,1'-[(1-methyl-1,2-ethanedi	1638-16-0	NBS75K.l	20630	50	C9H2004	192
Pentane, 2-methoxy-	6795-88-6	NBS75K.l	1778	49	C6H140	102
Propanoic acid, 2-hydroxy-2-methyl-, met	2110-78-3	NBS75K.l	3494	49	C5H1003	118









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

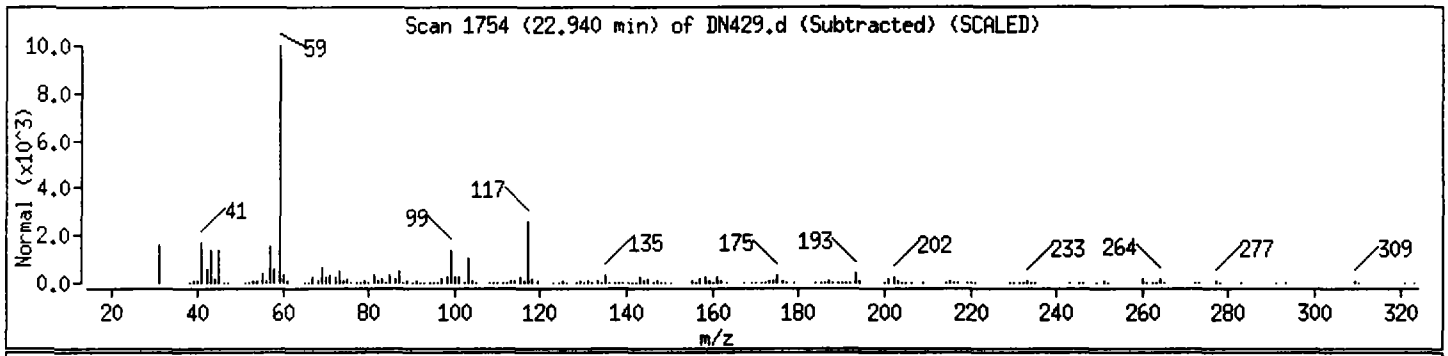
Volume Injected (uL): 1.0

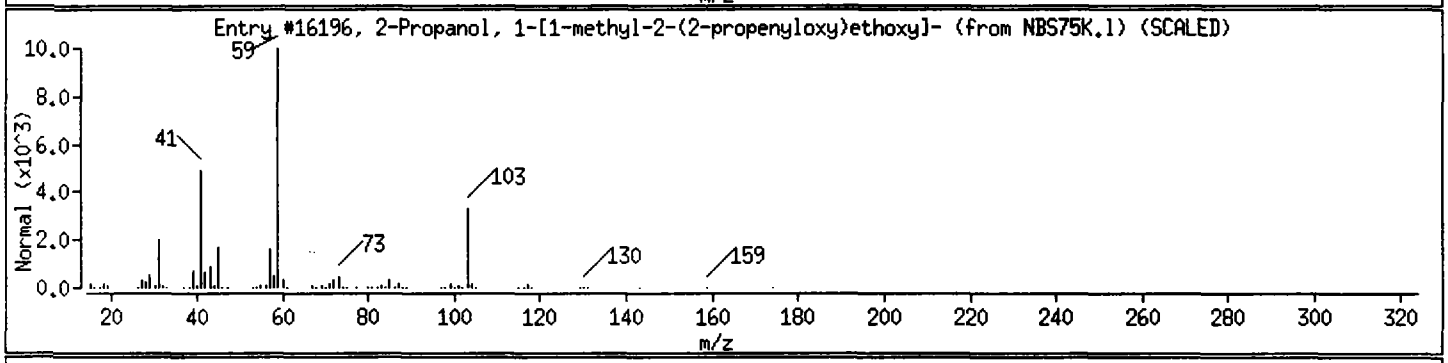
Operator: WSW

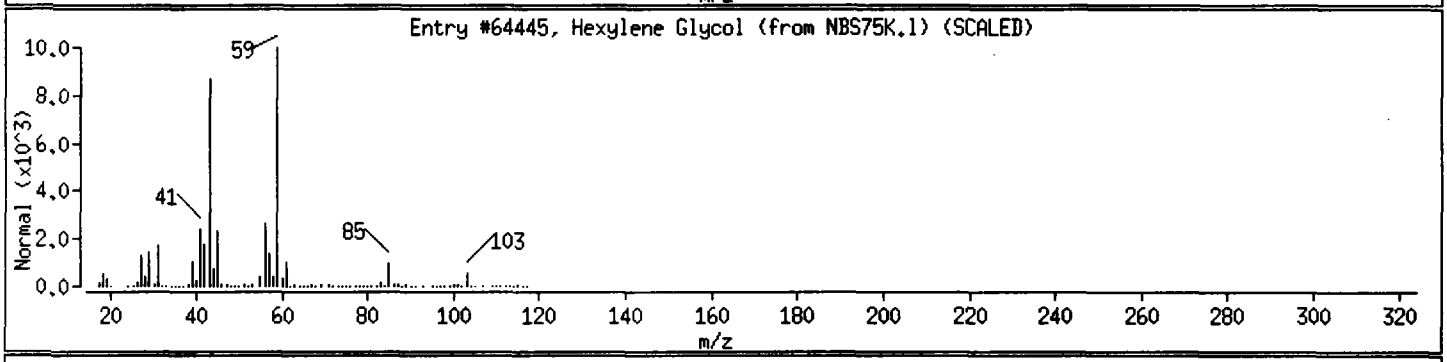
Column phase: DB-5

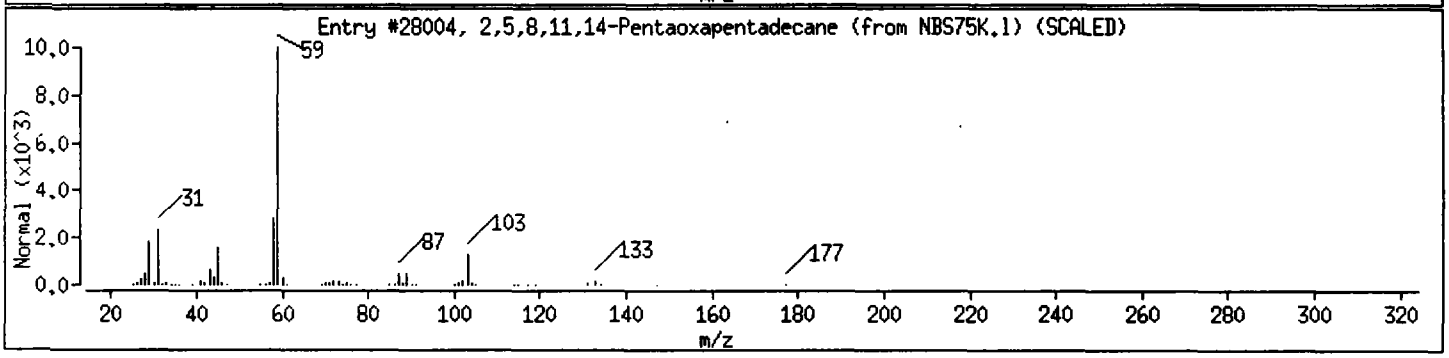
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
2-Propanol, 1-[1-methyl-2-(2-propenyloxy	55956-25-7	NBS75K.l	16196	53	C9H18O3	174
Hexylene Glycol	107-41-5	NBS75K.l	64445	50	C6H14O2	118
2,5,8,11,14-Pentaoxapentadecane	143-24-8	NBS75K.l	28004	50	C10H22O5	222









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

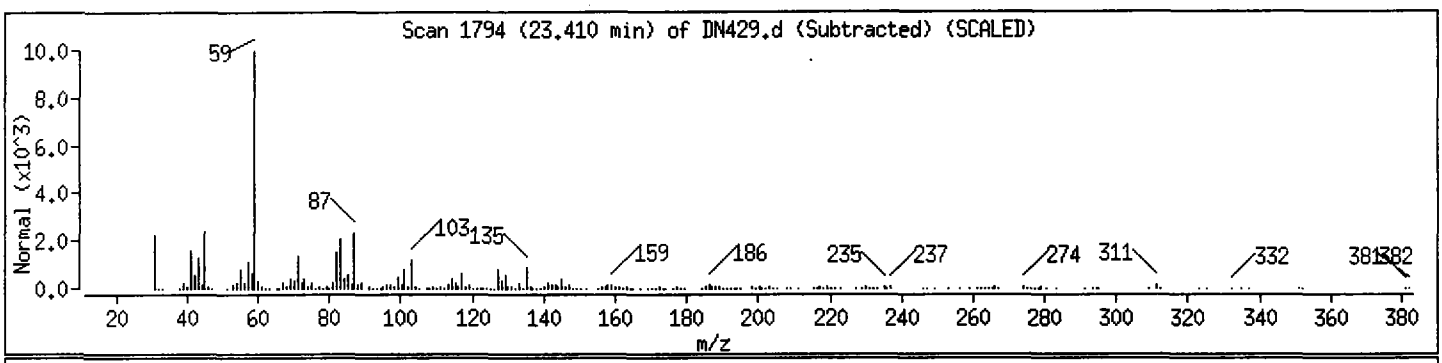
Client ID: Kearney 1000/1 Instrument: ITS5.i

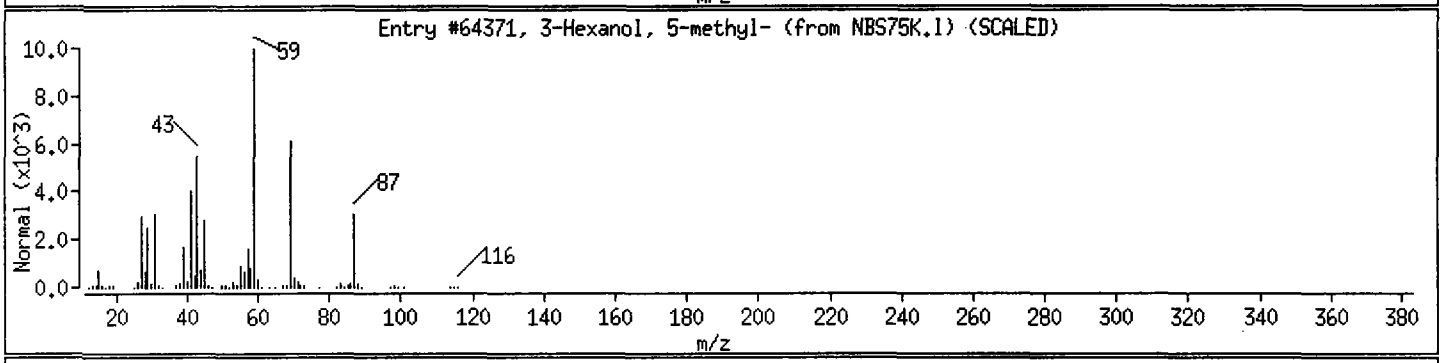
Sample Info: IL_8270_L;;AB879-90;1

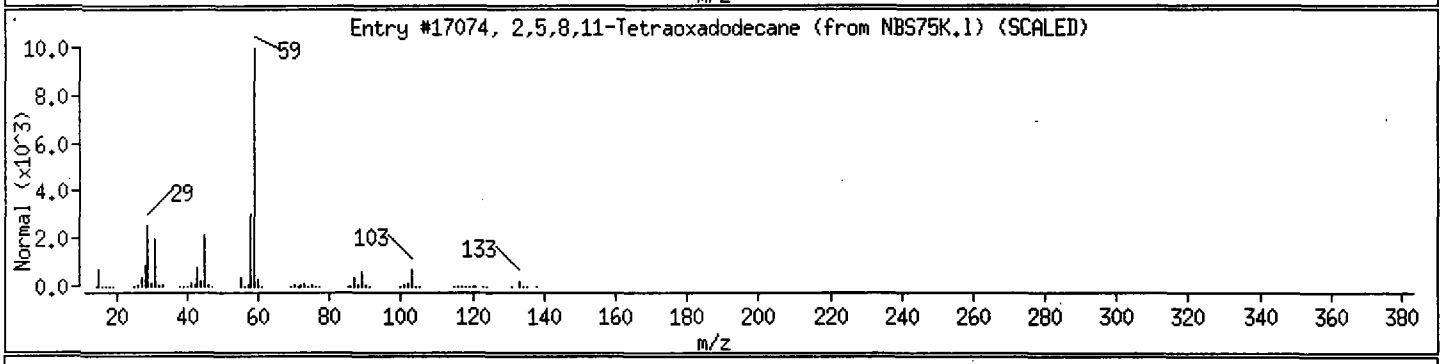
Volume Injected (uL): 1.0 Operator: WSW

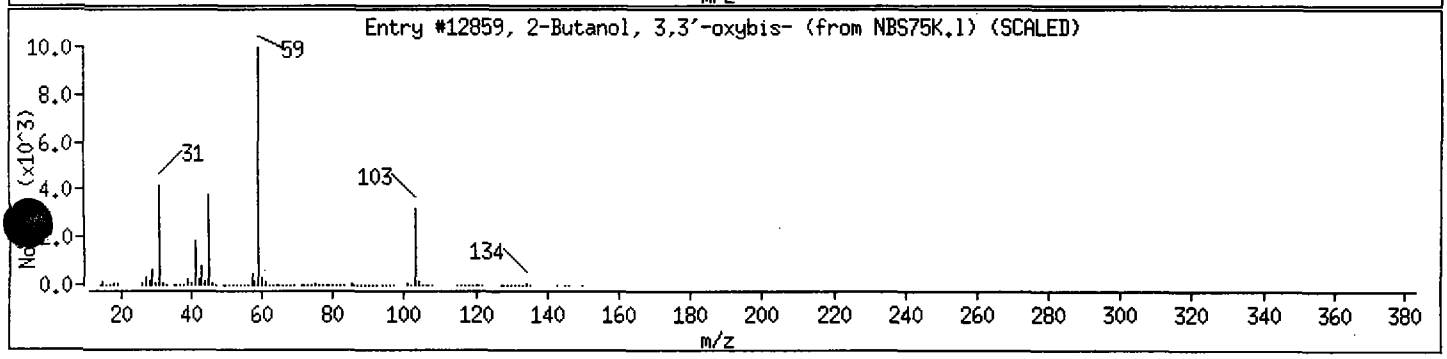
Column phase: DB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
3-Hexanol, 5-methyl-	623-55-2	NBS75K.l	64371	59	C7H16O	116
2,5,8,11-Tetraoxadodecane	112-49-2	NBS75K.l	17074	53	C8H18O4	178
2-Butanol, 3,3'-oxybis-	54305-61-2	NBS75K.l	12859	53	C8H18O3	162









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

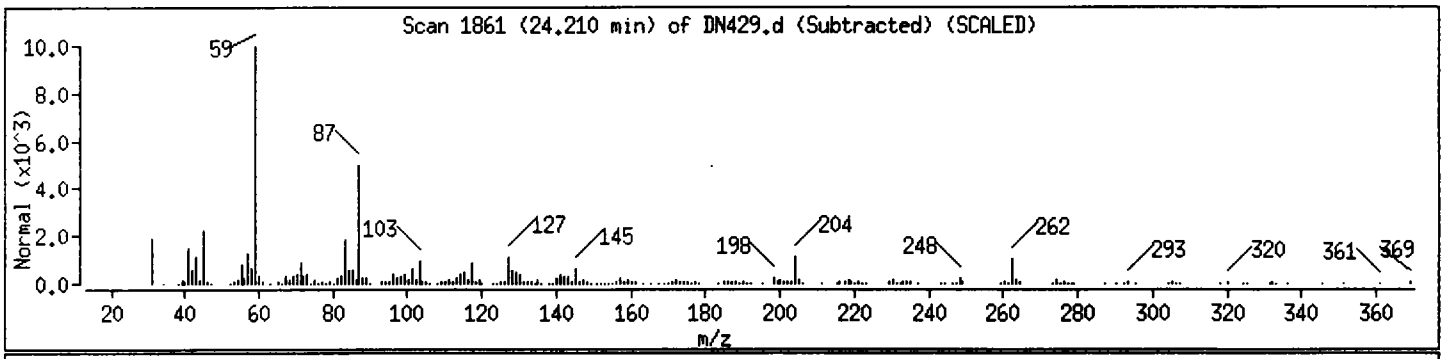
Volume Injected (uL): 1.0

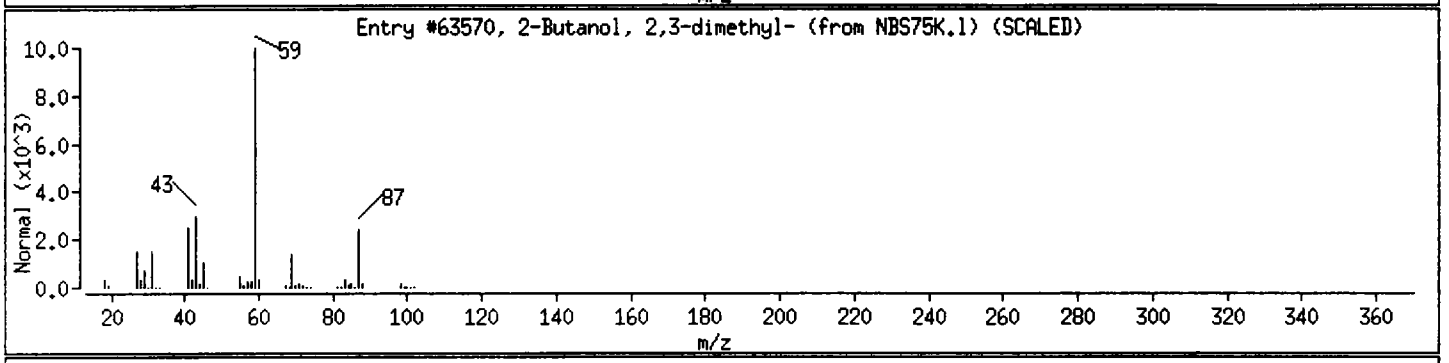
Operator: WSW

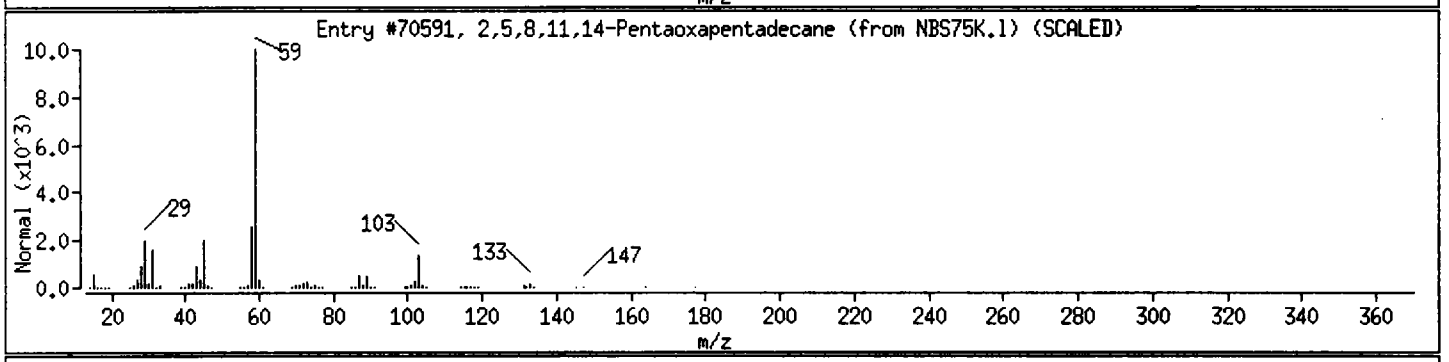
Column phase: DB-5

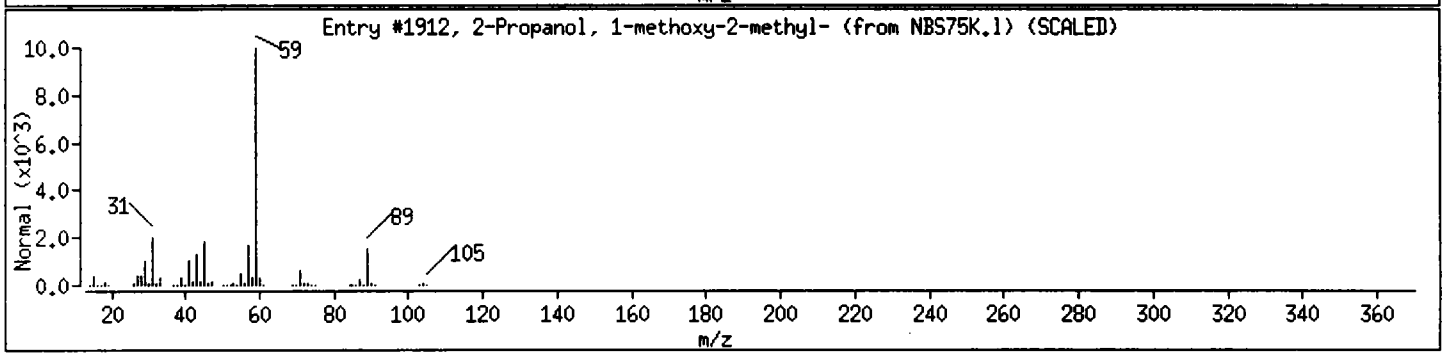
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
2-Butanol, 2,3-dimethyl-	594-60-5	NBS75K.l	63570	50	C6H14O	102
2,5,8,11,14-Pentaoxapentadecane	143-24-8	NBS75K.l	70591	47	C10H22O5	222
2-Propanol, 1-methoxy-2-methyl-	3587-64-2	NBS75K.l	1912	47	C5H12O2	104









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

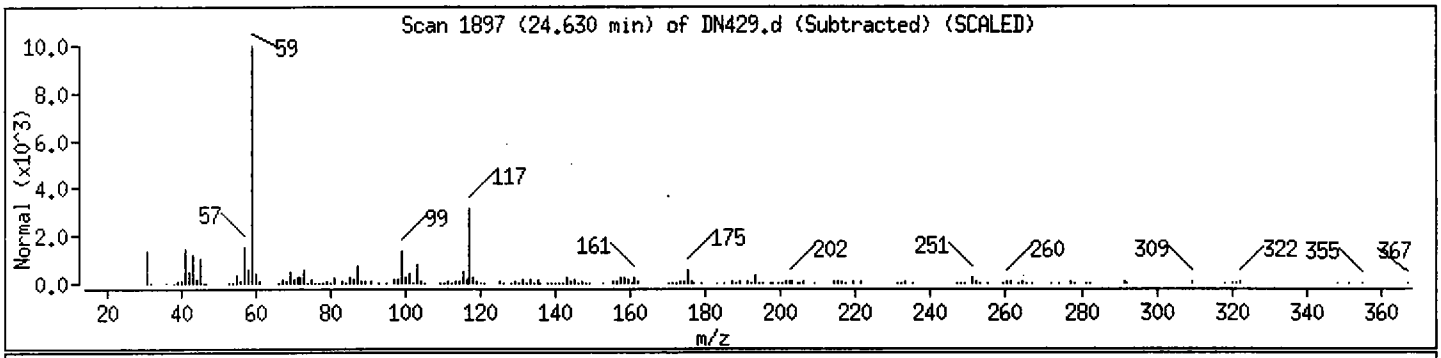
Volume Injected (uL): 1.0

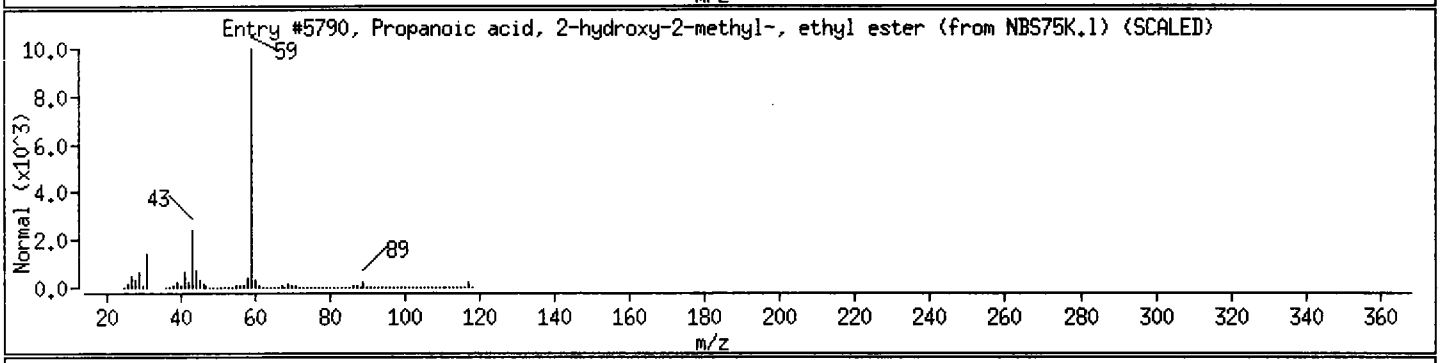
Operator: WSW

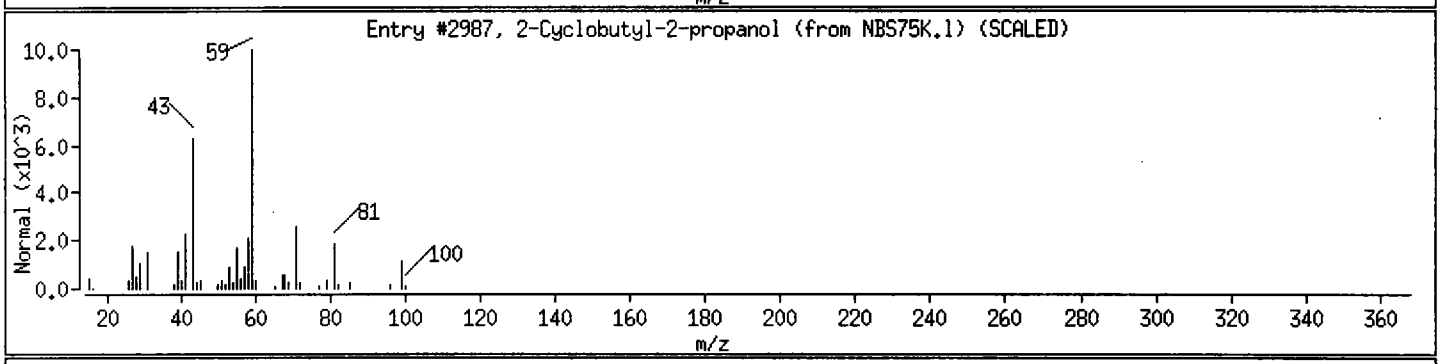
Column phase: DB-5

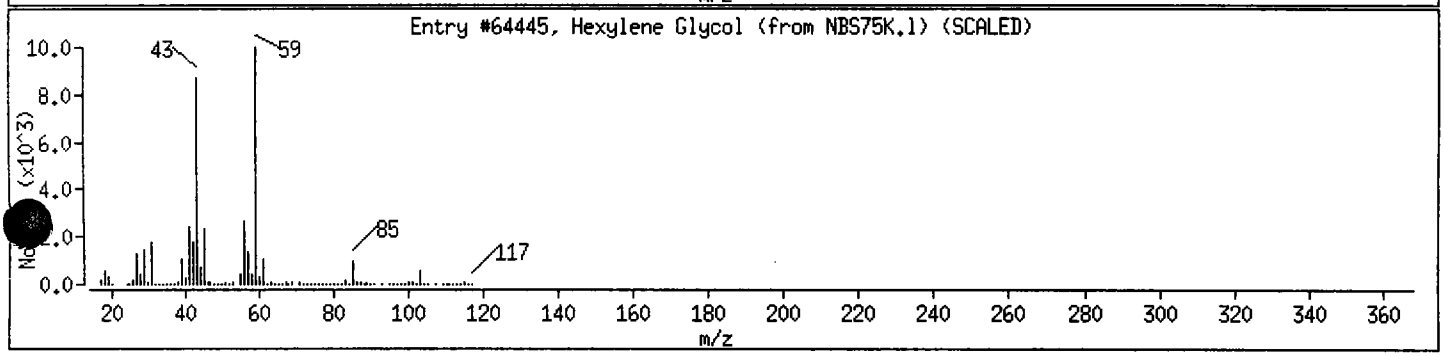
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
Propanoic acid, 2-hydroxy-2-methyl-, eth	80-55-7	NBS75K.l	5790	53	C6H12O3	132
2-Cyclobutyl-2-propanol	0-00-0	NBS75K.l	2987	50	C7H14O	114
Hexylene Glycol	107-41-5	NBS75K.l	64445	47	C6H14O2	118









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

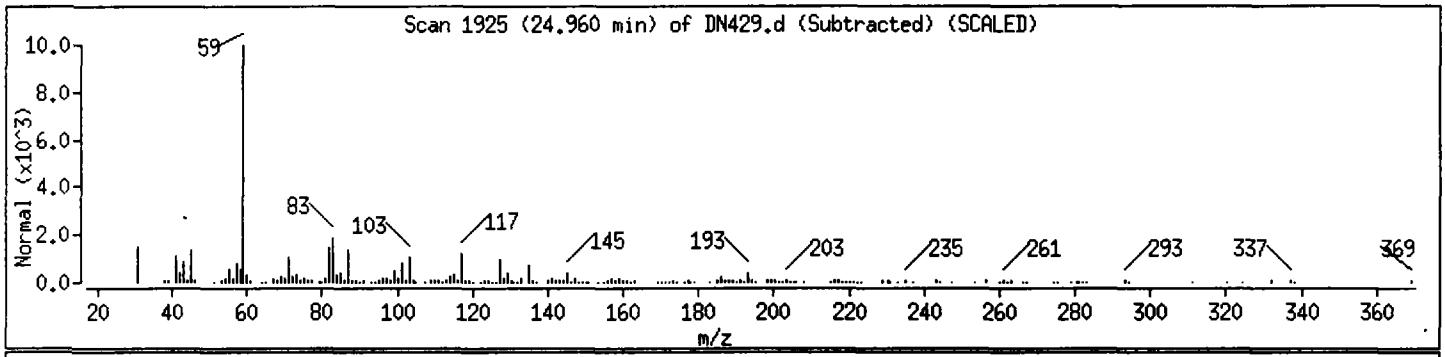
Volume Injected (uL): 1.0

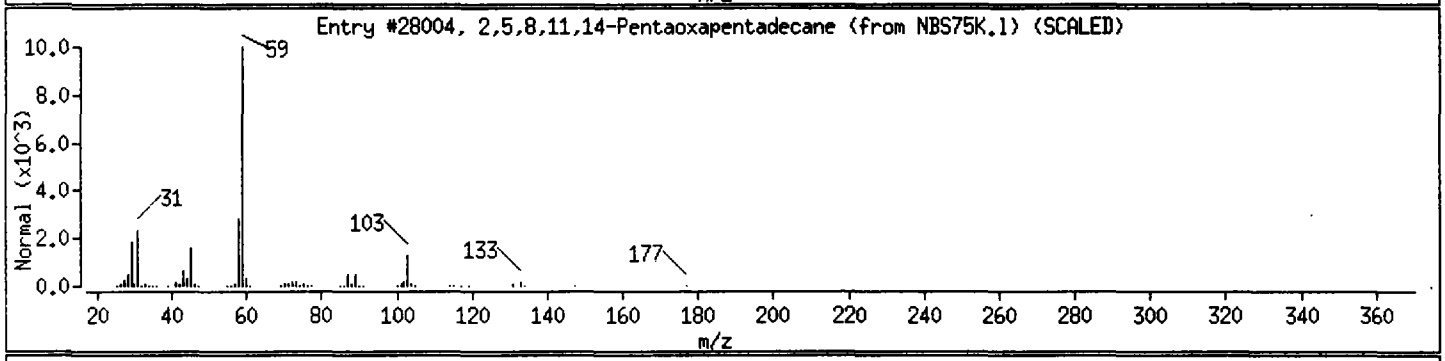
Operator: WSW

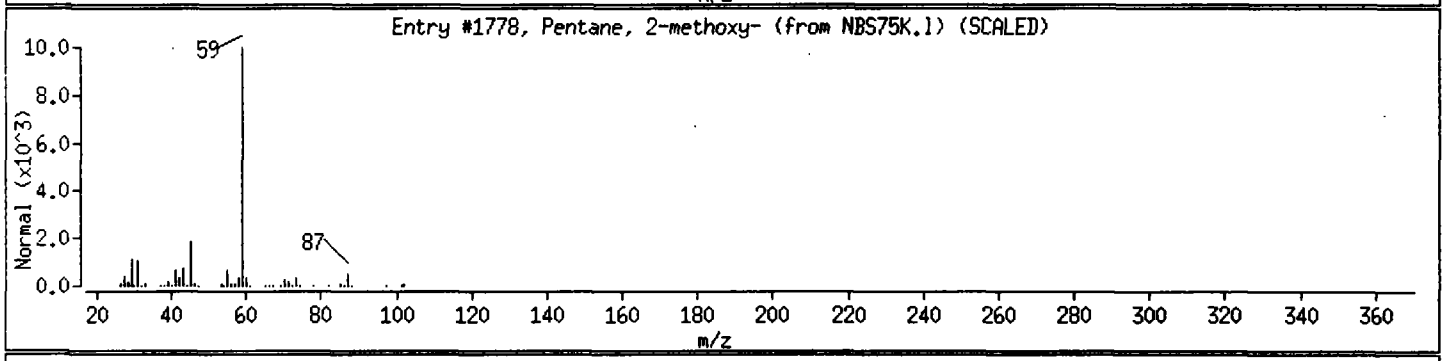
Column phase: DB-5

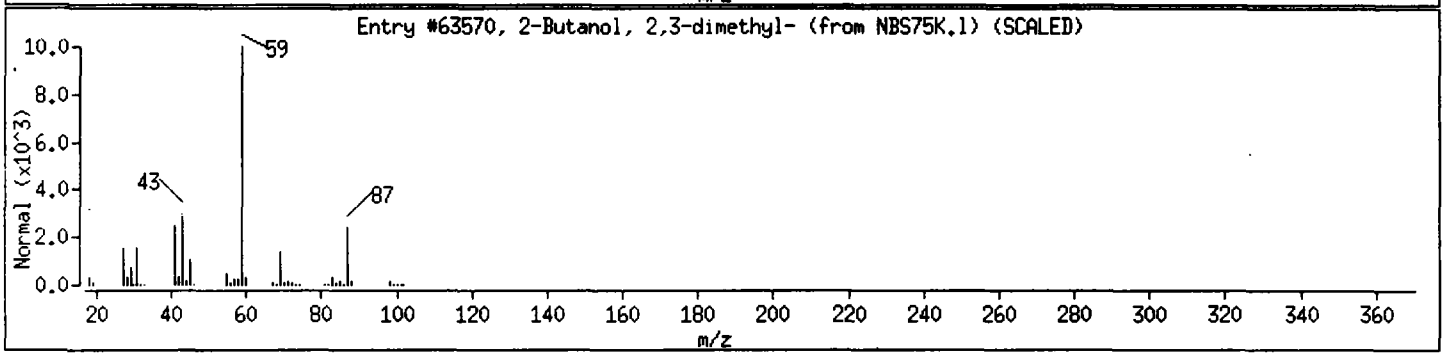
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
2,5,8,11,14-Pentaoxapentadecane	143-24-8	NBS75K.l	28004	50	C10H22O5	222
Pentane, 2-methoxy-	6795-88-6	NBS75K.l	1778	47	C6H14O	102
2-Butanol, 2,3-dimethyl-	594-60-5	NBS75K.l	63570	47	C6H14O	102









Data File: /chem3/ITS5.i/100396.b/DN429.d

Date : 04-OCT-1996 04:47

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

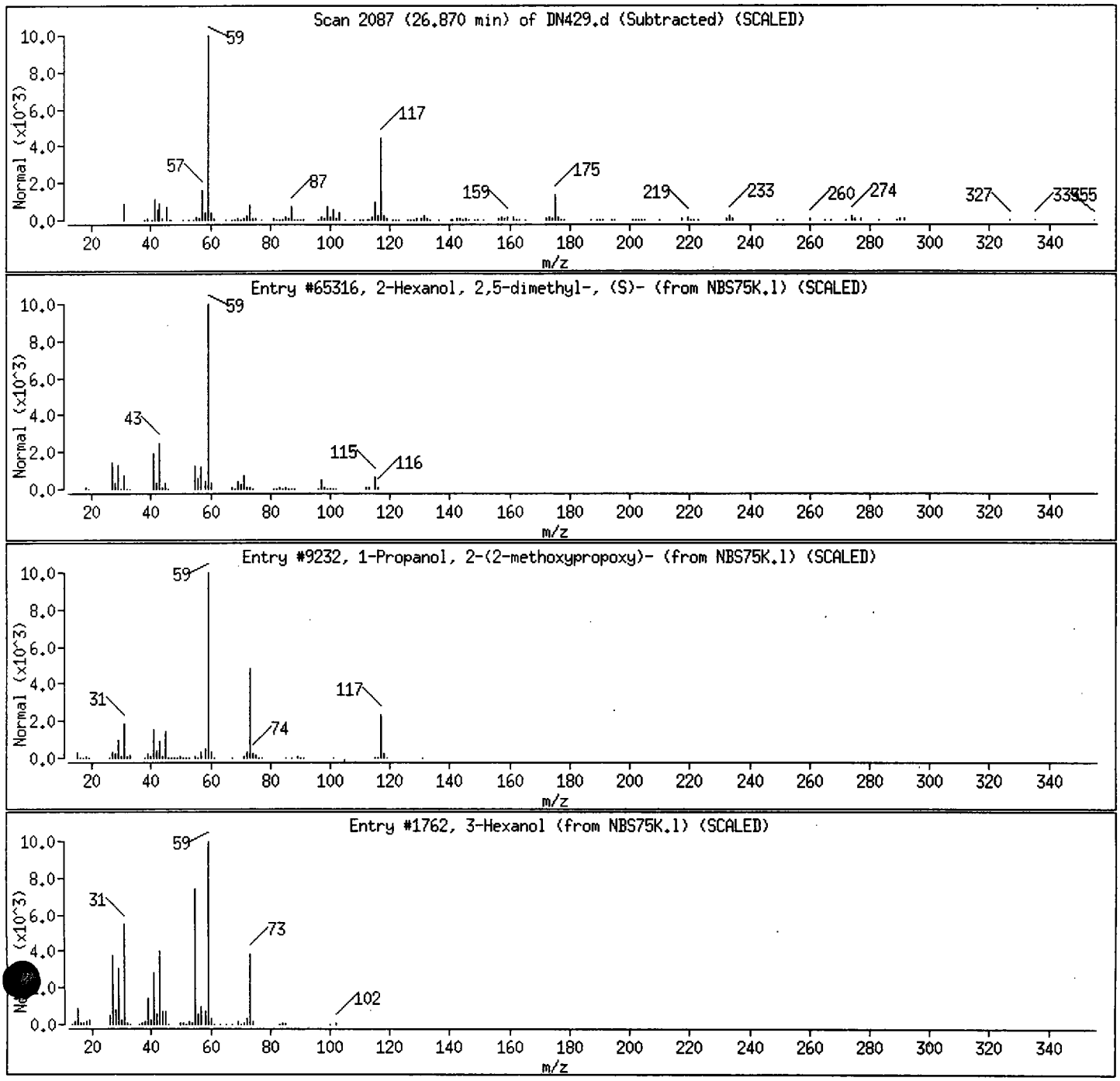
Volume Injected (uL): 1.0

Operator: WSW

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown ether						
2-Hexanol, 2,5-dimethyl-, (S)-	3730-60-7	NBS75K.l	65316	43	C8H18O	130
1-Propanol, 2-(2-methoxypropoxy)-	13588-28-8	NBS75K.l	9232	42	C7H16O3	148
3-Hexanol	623-37-0	NBS75K.l	1762	38	C6H14O	102



FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

MW000RF1MW16 RE

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN427

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	50.0	U
62-53-3	Aniline	250	U
108-95-2	Phenol	219	
111-44-4	Bis(2-Chloroethyl)Ether	50.0	U
95-57-8	2-Chlorophenol	50.0	U
541-73-1	1,3-Dichlorobenzene	50.0	U
106-46-7	1,4-Dichlorobenzene	50.0	U
100-51-6	Benzyl alcohol	100	U
95-50-1	1,2-Dichlorobenzene	50.0	U
95-48-7	2-Methylphenol	50.0	U
39638-32-9	Bis(2-Chloroisopropyl)ether	50.0	U
106-44-5	4-Methylphenol	50.0	U
621-64-7	N-Nitroso-di-n-propylamine	50.0	U
67-72-1	Hexachloroethane	50.0	U
98-95-3	Nitrobenzene	50.0	U
78-59-1	Isophorone	50.0	U
88-75-5	2-Nitrophenol	50.0	U
105-67-9	2,4-Dimethylphenol	50.0	U
111-91-1	Bis(2-Chloroethoxy)methane	50.0	U
65-85-0	Benzoic acid	250	U
120-83-2	2,4-Dichlorophenol	50.0	U
120-82-1	1,2,4-Trichlorobenzene	50.0	U
106-47-8	4-Chloroaniline	100	U
87-68-3	Hexachlorobutadiene	50.0	U
59-50-7	4-Chloro-3-methylphenol	100	U
91-57-6	2-Methylnaphthalene	50.0	U
77-47-4	Hexachlorocyclopentadiene	50.0	U
88-06-2	2,4,6-Trichlorophenol	50.0	U
95-95-4	2,4,5-Trichlorophenol	250	U
91-58-7	2-Chloronaphthalene	50.0	U
88-74-4	2-Nitroaniline	250	U
131-11-3	Dimethyl phthalate	50.0	U
208-96-8	Acenaphthylene	50.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

MW000RF1MW16 RE

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN427

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	50.0	U
99-09-2	3-Nitroaniline	250	U
83-32-9	Acenaphthene	50.0	U
51-28-5	2,4-Dinitrophenol	250	U
132-64-9	Dibenzofuran	50.0	U
100-02-7	4-Nitrophenol	250	U
121-14-2	2,4-Dinitrotoluene	50.0	U
84-66-2	Diethyl phthalate	50.0	U
86-73-7	Fluorene	50.0	U
7005-72-3	4-Chlorophenylphenyl ether	50.0	U
100-01-6	4-Nitroaniline	250	U
534-52-1	4,6-Dinitro-2-methylphenol	250	U
86-30-6	N-Nitrosodiphenylamine (1)	50.0	U
103-33-3	1,2-Diphenylhydrazine	250	U
101-55-3	4-Bromophenylphenyl ether	50.0	U
87-86-5	Pentachlorophenol	250	U
92875	Benzidine	250	U
85-01-8	Phenanthrene	50.0	U
120-12-7	Anthracene	50.0	U
86-74-8	Carbazole	50.0	U
84-74-2	Di-n-butylphthalate	50.0	U
206-44-0	Fluoranthene	50.0	U
129-00-0	Pyrene	50.0	U
85-68-7	Butyl benzyl phthalate	50.0	U
56-55-3	Benzo(a)anthracene	50.0	U
91-94-1	3,3'-Dichlorobenzidine	100	U
218-01-9	Chrysene	50.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	50.0	U
117-84-0	Di-n-octylphthalate	50.0	U
205-99-2	Benzo(b)fluoranthene	50.0	U
207-08-9	Benzo(k)fluoranthene	50.0	U
50-32-8	Benzo(a)pyrene	50.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	50.0	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

MW000RF1MW16 RE

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN427

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
53-70-3	Dibenz(a,h)anthracene	50.0	U
191-24-2	Benzo(g,h,i)perylene	50.0	U
110-86-1	Pyridine	50.0	U
	m,p-Cresol	50.0	U
109-06-8	2-Picoline	250	U
10595-95-6	N-Nitrosomethylethylamine	50.0	U
66-27-3	Methyl methanesulfonate	250	U
55-18-5	N-Nitrosodiethylamine	50.0	U
62-50-0	Ethyl methanesulfonate	250	U
76-01-7	Pentachloroethane	50.0	U
98-86-2	Acetophenone	250	U
930-55-2	N-Nitrosopyrrolidine	50.0	U
59-89-2	N-Nitrosomorpholine	50.0	U
95-53-4	o-Toluidine	50.0	U
106-50-3	p-Phenylenediamine	50.0	U
100-75-4	N-Nitrosopiperidine	50.0	U
29088-49-1	a,a-Dimethylphenylethylamine	50.0	U
87-65-0	2,6-Dichlorophenol	50.0	U
1888-71-7	Hexachloropropene	50.0	U
924-16-3	N-Nitrosodibutylamine	50.0	U
120-58-1	Isosafrole	50.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	50.0	U
94-59-7	Safrole	50.0	U
90-13-1	1-Chloronaphthalene	50.0	U
130-15-4	1,4-Naphthoquinone	50.0	U
99-65-0	m-Dinitrobenzene	50.0	U
608-93-5	Pentachlorobenzene	50.0	U
91-59-8	2-Naphthylamine	50.0	U
134-32-7	1-Naphthylamine	50.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	50.0	U
99-55-8	5-Nitro-o-toluidine	50.0	U
99-35-4	1,3,5-Trinitrobenzene	50.0	U
2303-16-4	Diallate	50.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

MW000RF1MW16 RE

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN427

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-44-2	Phenacetin	50.0	U
118-74-1	Hexachlorobenzene	50.0	U
92-67-1	4-Aminobiphenyl	250	U
82-68-8	Pentachloronitrobenzene	50.0	U
23950-58-5	Pronamide	50.0	U
88-85-7	Dinoseb	50.0	U
56-57-5	4-Nitroquinoline-1-oxide	50.0	U
91-80-5	Methapyrilene	50.0	U
465-73-6	Isodrin	50.0	U
140-57-8	Aromite	50.0	U
60-11-7	p-(Dimethylamino)azobenzene	50.0	U
510-15-6	Chlorobenzilate	50.0	U
----------	3,3'-Dimethylbenzidine	50.0	U
143-50-0	Kepone	50.0	U
53-96-3	2-Actylaminofluorene	50.0	U
57-97-6	7,12-Dimethylbenz(a)anthrace	50.0	U
70-30-4	Hexachlorophene	250	U
56-49-5	3-Methylcholanthrene	50.0	U
224-42-9	Dibenz[a,j]acridine	250	U
86-30-6	N-Nitroso- & Diphenylamine	50.0	U
91-20-3	Naphthalene	50.0	U
126-68-1	Triethyl thiophosphate	50.0	U
60-51-5	Dimethoate	50.0	U
298-04-4	Disolfonton	50.0	U
298-00-0	Methyl parathion	50.0	U
56-38-2	Parathion	50.0	U
298-02-2	Phorate	50.0	U
3689-24-5	Sulfotep	50.0	U
297-97-2	Thionazin	50.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

KEARNEY SAMPLE NO.

MW000RF1MW16 RE

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN427

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 103-82-2	BENZENEACETIC ACID	9.39	232	NJ
2. 1638-16-0	2-PROPANOL, 1,1'-[(1-METHYL-	9.99	264	NJ
3. 1638-16-0	2-PROPANOL, 1,1'-[(1-METHYL-	10.05	581	NJ
4. 584-03-2	1,2-BUTANEDIOL	10.24	172	NJ
5. 20324-34-9	2,5,8,11-TETRAOXATETRADECAN-	13.24	248	NJ
6. 1638-16-0	2-PROPANOL, 1,1'-[(1-METHYL-	13.31	339	NJ
7. 55956-25-7	2-PROPANOL, 1-[1-METHYL-2-(2	16.96	667	NJ
8. 13588-28-8	1-PROPANOL, 2-(2-METHOXYPROP	19.67	1260	NJ
9. 143-24-8	2,5,8,11,14-PENTAOXAPENTADEC	20.99	896	NJ
10. 590-36-3	2-PENTANOL, 2-METHYL-	21.61	760	NJ
11. 13588-28-8	1-PROPANOL, 2-(2-METHOXYPROP	21.74	206	NJ
12. 53778-72-6	2-BUTANOL, 3-METHOXY-	22.18	526	NJ
13. 590-36-3	2-PENTANOL, 2-METHYL-	22.67	324	NJ
14. 143-24-8	2,5,8,11,14-PENTAOXAPENTADEC	22.91	721	NJ
15. 3970-62-5	3-PENTANOL, 2,2-DIMETHYL-	23.34	922	NJ
16. 55956-25-7	2-PROPANOL, 1-[1-METHYL-2-(2	23.57	487	NJ
17. 594-60-5	2-BUTANOL, 2,3-DIMETHYL-	23.88	171	NJ
18. 617-86-7	SILANE, TRIETHYL-	24.18	383	NJ
19. 2110-78-3	PROPANOIC ACID, 2-HYDROXY-2-	24.61	284	NJ
20. 36794-64-6	2,3,3-TRIMETHYLBUTANOL	24.92	278	NJ
21. 13429-07-7	2-PROPANOL, 1-(2-METHOXYPROP	25.23	278	NJ
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN427.d
Lab Smp Id: D96-10809-1 DL Client Smp ID: Kearney 1000/5
Inj Date : 04-OCT-1996 03:34
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/5 09-30-96 AT Kearney BTL#13
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1
Dil Factor: 5.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 6 2-Fluorophenol (SS)	112.00	4.193	4.182	(0.677)	5318	9.40	47.0(a)
$ 10 Phenol-d6 (SS)	99.00	5.621	5.621	(0.908)	5897	10.4	52.1(Q)
11 Phenol	94.00	5.644	5.644	(0.912)	24505	43.9	219(QM)
* 16 1,4-Dichlorobenzene-d4	152.00	6.191	6.191	(1.000)	17973	40.0	
$ 29 Nitrobenzene-d5 (SS)	82.00	7.190	7.203	(0.841)	4268	6.09	30.5(a)
* 42 Naphthalene-d8	136.00	8.549	8.552	(1.000)	58217	40.0	
$ 58 2-Fluorobiphenyl (SS)	172.00	10.759	10.760	(0.889)	5956	4.62	23.1(a)
* 67 Acenaphthene-d10	164.00	12.096	12.097	(1.000)	34225	40.0	
$ 88 2,4,6-Tribromophenol (SS)	330.00	14.108	14.097	(1.166)	2715	10.3	51.6
* 101 Phenanthrene-d10	188.00	16.096	16.096	(1.000)	59216	40.0	
$ 116 Terphenyl-d14 (SS)	244.00	20.211	20.218	(0.899)	3622	2.94	14.7(aR)
* 126 Chrysene-d12	240.00	22.479	22.483	(1.000)	42478	40.0	
* 135 Perylene-d12	264.00	25.332	25.331	(1.000)	35277	40.0	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem3/ITS5.i/100396.b/DN427.d
Lab Smp Id: D96-10809-1 Client Smp ID: Kearney 1000/5
Inj Date : 04-OCT-1996 03:34
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/5 09-30-96 AT Kearney BTL#13
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1
Dil Factor: 5.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

ISTD	RT	AREA	AMOUNT
* 42 Naphthalene-d8	8.549	145367	40.000
* 67 Acenaphthene-d10	12.096	164368	40.000
* 101 Phenanthrene-d10	16.096	152609	40.000
* 126 Chrysene-d12	22.479	123607	40.000
* 135 Perylene-d12	25.332	113965	40.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Benzeneacetic acid					CAS #: 103-82-2		
9.390	168334	46.3	232	87	NBS75K.l	6478	42(L)
2-Propanol, 1,1'-[(1-methyl-1,2-ethanedi					CAS #: 1638-16-0		
9.990	192241	52.9	264	91	NBS75K.l	20630	42
2-Propanol, 1,1'-[(1-methyl-1,2-ethanedi					CAS #: 1638-16-0		
10.050	422107	116	581	90	NBS75K.l	20630	42
1,2-Butanediol					CAS #: 584-03-2		
10.240	125144	34.4	172	50	NBS75K.l	918	42

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
2,5,8,11-Tetraoxatetradecan-13-ol, 4,7,1					CAS #: 20324-34-9		
13.240	204279	49.7	248	72	NBS75K.l	36541	67
2-Propanol, 1,1'-[(1-methyl-1,2-ethanedi					CAS #: 1638-16-0		
13.310	278880	67.9	339	83	NBS75K.l	20630	67
2-Propanol, 1-[1-methyl-2-(2-propenyloxy					CAS #: 55956-25-7		
16.960	508984	133	667	72	NBS75K.l	68438	101
1-Propanol, 2-(2-methoxypropoxy)-					CAS #: 13588-28-8		
19.670	782227	253	1260	64	NBS75K.l	9232	126
2,5,8,11,14-Pentaoxapentadecane					CAS #: 143-24-8		
20.990	553518	179	896	59	NBS75K.l	70591	126
2-Pentanol, 2-methyl-					CAS #: 590-36-3		
21.610	469785	152	760	59	NBS75K.l	63533	126
1-Propanol, 2-(2-methoxypropoxy)-					CAS #: 13588-28-8		
21.740	127234	41.2	206	59	NBS75K.l	9232	126
2-Butanol, 3-methoxy-					CAS #: 53778-72-6		
22.180	324944	105	526	60	NBS75K.l	1908	126
2-Pentanol, 2-methyl-					CAS #: 590-36-3		
22.670	200509	64.9	324	64	NBS75K.l	63532	126
2,5,8,11,14-Pentaoxapentadecane					CAS #: 143-24-8		
22.910	445482	144	721	53	NBS75K.l	28004	126
3-Pentanol, 2,2-dimethyl-					CAS #: 3970-62-5		
23.340	570171	184	922	59	NBS75K.l	3350	126
2-Propanol, 1-[1-methyl-2-(2-propenyloxy					CAS #: 55956-25-7		
23.570	300738	97.3	487	50	NBS75K.l	16196	126
2-Butanol, 2,3-dimethyl-					CAS #: 594-60-5		
23.880	105761	34.2	171	50	NBS75K.l	63571	126
Silane, triethyl-					CAS #: 617-86-7		
24.180	218322	76.6	383	53	NBS75K.l	3342	135
Propanoic acid, 2-hydroxy-2-methyl-, met					CAS #: 2110-78-3		
24.610	161769	56.8	284	52	NBS75K.l	3494	135
2,3,3-Trimethylbutanol					CAS #: 36794-64-6		
24.920	158679	55.7	278	50	NBS75K.l	3346	135

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
2-Propanol, 1-(2-methoxypropoxy)-					CAS #: 13429-07-7		
25.230	158171	55.5	278	43	NBS75K.l	9233	135

Flag Legend

L - Operator selected an alternate library search match.

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ITS5.i
Lab File ID: DN427.d
Lab Smp Id: D96-10809-1
Analysis Type: SV
Quant Type: ISTD
Operator: WSW
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/5 09-30-96 AT Kearney BTL#13

Calibration Date: 10/03/96
Calibration Time: 2045
Client Smp ID: Kearney 1000/5
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	27981	13990	55962	17973	-35.77
42 Naphthalene-d8	85693	42846	171386	58217	-32.06
67 Acenaphthene-d10	47296	23648	94592	34225	-27.64
101 Phenanthrene-d10	83215	41608	166430	59216	-28.84
126 Chrysene-d12	56462	28231	112924	42478	-24.77
135 Perylene-d12	51173	25586	102346	35277	-31.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	6.19	5.69	6.69	6.19	-0.01
42 Naphthalene-d8	8.55	8.05	9.05	8.55	-0.03
67 Acenaphthene-d10	12.10	11.60	12.60	12.10	-0.01
101 Phenanthrene-d10	16.10	15.60	16.60	16.10	0.00
126 Chrysene-d12	22.48	21.98	22.98	22.48	-0.02
135 Perylene-d12	25.33	24.83	25.83	25.33	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-1
Level: LOW
Data Type: MS DATA
SpikeList File: 8270_100.spk
Client SDG: 100396
Fraction: SV
Client Smp ID: Kearney 1000/5
Operator: WSW
SampleType: SAMPLE
Quant Type: ISTD
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/5 09-30-96 AT Kearney BTL#13

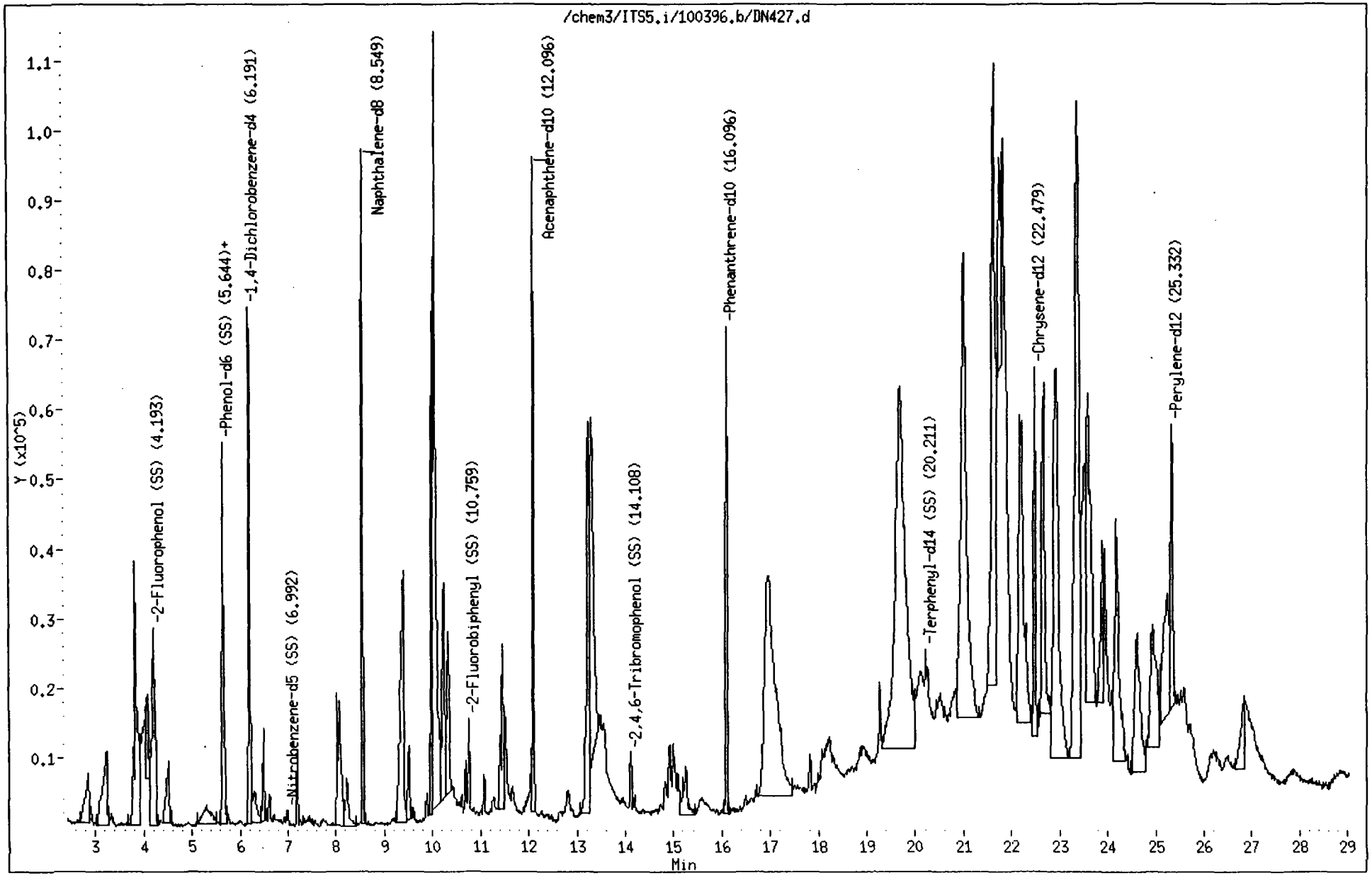
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Fluorophenol (SS	100	47.0	47.02	30-120
$ 10 Phenol-d6 (SS)	100	52.1	52.07	30-110
$ 29 Nitrobenzene-d5 (S	50.0	30.5	60.94	35-114
$ 58 2-Fluorobiphenyl (	50.0	23.1	46.25	43-116
$ 88 2,4,6-Tribromophen	100	51.6	51.56	25-135
$ 116 Terphenyl-d14 (SS)	50.0	14.7	29.38*	33-141

231

Data File: /chem3/ITS5.i/100396.b/DN427.d
Date : 04-OCT-1996 03:34
Client ID: Kearney 1000/5
Sample Info: IL_8270_L;;AB879-90;1
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



Data File: /chem3/ITS5.i/100396.b/DN427.d

Date : 04-OCT-1996 03:34

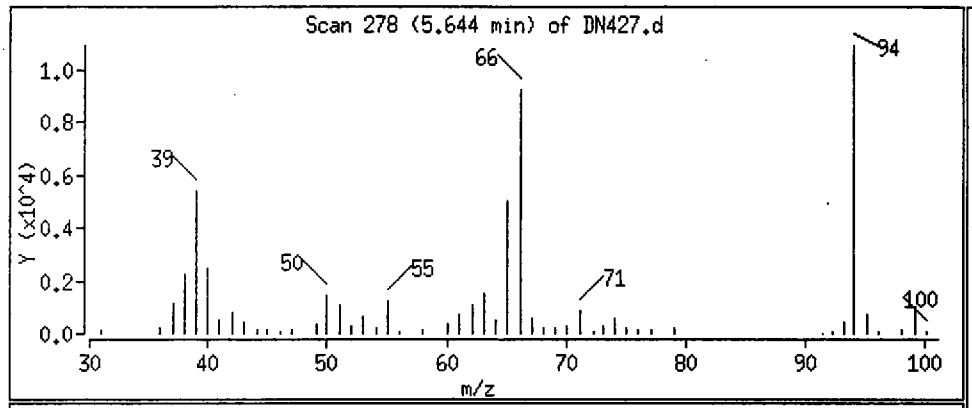
Client ID: Kearney 1000/5 Instrument: ITS5.i

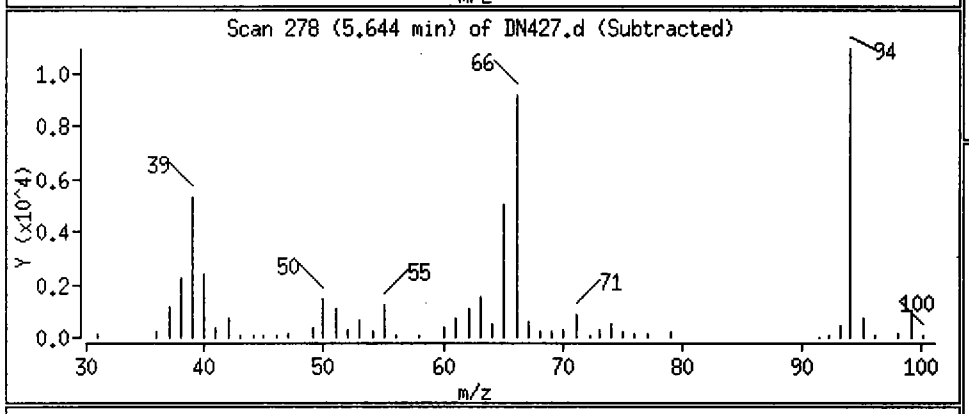
Sample Info: IL_8270_L;;AB879-90;1

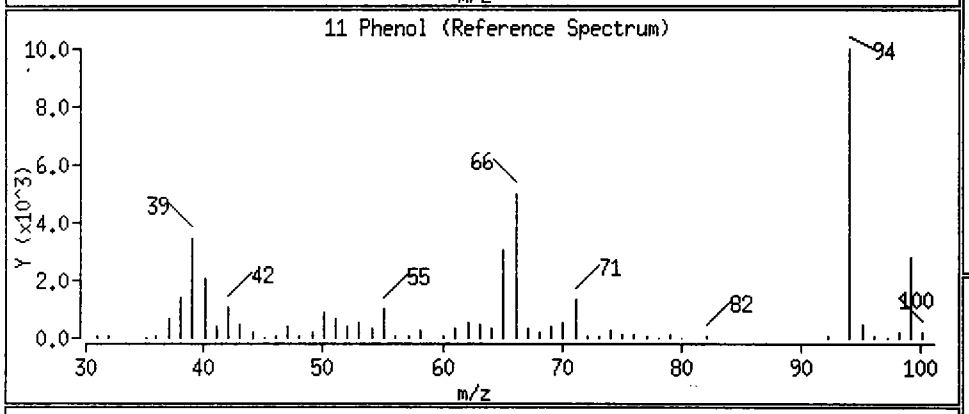
Volume Injected (uL): 1.0 Operator: WSW

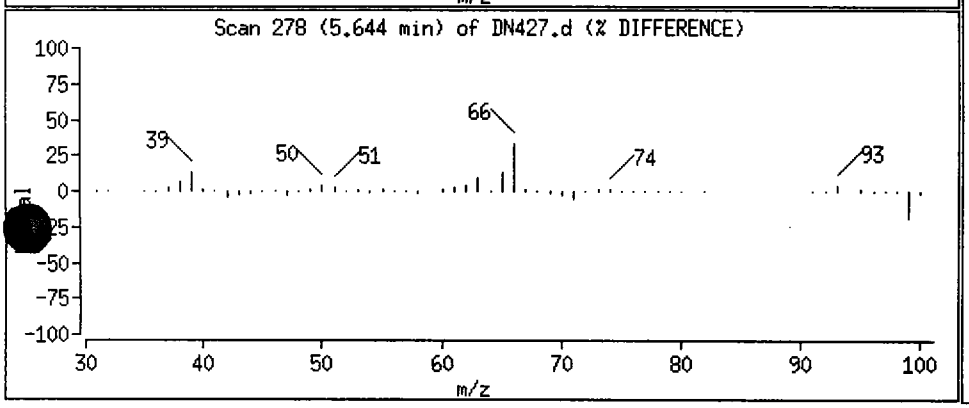
Column phase: DB-5 Column diameter: 0.25

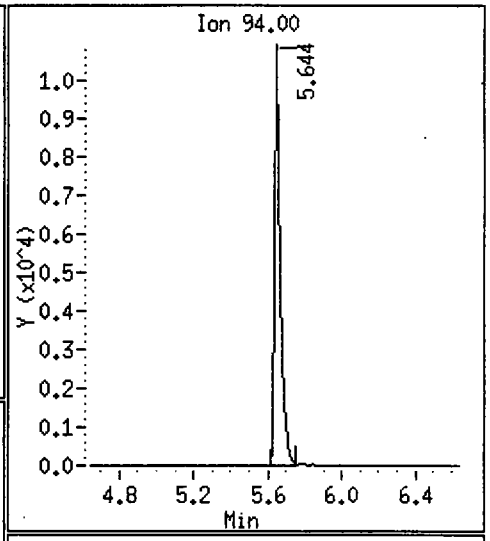
11 Phenol

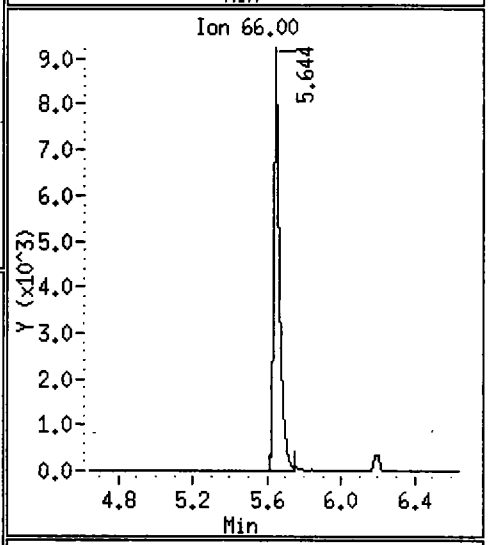


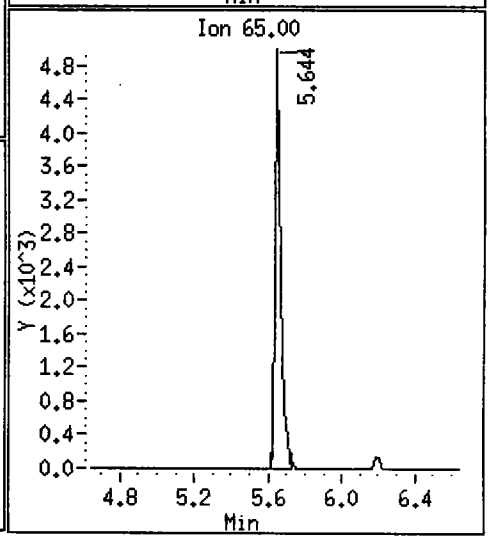












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

MW000RF1MW2

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN424

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10.0	U
62-53-3	Aniline	50.0	U
108-95-2	Phenol	10.0	U
111-44-4	Bis(2-Chloroethyl)Ether	47.4	
95-57-8	2-Chlorophenol	10.0	U
541-73-1	1,3-Dichlorobenzene	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
100-51-6	Benzyl alcohol	20.0	U
95-50-1	1,2-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
39638-32-9	Bis(2-Chloroisopropyl)ether	10.0	U
106-44-5	4-Methylphenol	88.9	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U
67-72-1	Hexachloroethane	10.0	U
98-95-3	Nitrobenzene	10.0	U
78-59-1	Isophorone	10.0	U
88-75-5	2-Nitrophenol	10.0	U
105-67-9	2,4-Dimethylphenol	10.0	U
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U
65-85-0	Benzoic acid	50.0	U
120-83-2	2,4-Dichlorophenol	10.0	U
120-82-1	1,2,4-Trichlorobenzene	10.0	U
106-47-8	4-Chloroaniline	20.0	U
87-68-3	Hexachlorobutadiene	10.0	U
59-50-7	4-Chloro-3-methylphenol	20.0	U
91-57-6	2-Methylnaphthalene	10.0	U
77-47-4	Hexachlorocyclopentadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	50.0	U
91-58-7	2-Chloronaphthalene	10.0	U
88-74-4	2-Nitroaniline	50.0	U
131-11-3	Dimethyl phthalate	10.0	U
208-96-8	Acenaphthylene	10.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

MW000RF1MW2

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN424

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10.0	U
99-09-2	3-Nitroaniline	50.0	U
83-32-9	Acenaphthene	10.0	U
51-28-5	2,4-Dinitrophenol	50.0	U
132-64-9	Dibenzofuran	10.0	U
100-02-7	4-Nitrophenol	50.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
84-66-2	Diethyl phthalate	10.0	U
86-73-7	Fluorene	10.0	U
7005-72-3	4-Chlorophenylphenyl ether	10.0	U
100-01-6	4-Nitroaniline	50.0	U
534-52-1	4,6-Dinitro-2-methylphenol	50.0	U
86-30-6	N-Nitrosodiphenylamine (1)	10.0	U
103-33-3	1,2-Diphenylhydrazine	50.0	U
101-55-3	4-Bromophenylphenyl ether	10.0	U
87-86-5	Pentachlorophenol	50.0	U
92875	Benzidine	50.0	U
85-01-8	Phenanthrene	10.0	U
120-12-7	Anthracene	10.0	U
86-74-8	Carbazole	10.0	U
84-74-2	Di-n-butylphthalate	10.0	U
206-44-0	Fluoranthene	10.0	U
129-00-0	Pyrene	10.0	U
85-68-7	Butyl benzyl phthalate	10.0	U
56-55-3	Benzo(a)anthracene	10.0	U
91-94-1	3,3'-Dichlorobenzidine	20.0	U
218-01-9	Chrysene	10.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U
117-84-0	Di-n-octylphthalate	10.0	U
205-99-2	Benzo(b)fluoranthene	10.0	U
207-08-9	Benzo(k)fluoranthene	10.0	U
50-32-8	Benzo(a)pyrene	10.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U

(1) - Cannot be separated from Diphenylamine

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

MW000RF1MW2

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN424

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
53-70-3	Dibenz(a,h)anthracene	10.0	U
191-24-2	Benzo(g,h,i)perylene	10.0	U
110-86-1	Pyridine	10.0	U
	m,p-Cresol	10.0	U
109-06-8	2-Picoline	50.0	U
10595-95-6	N-Nitrosomethylethylamine	10.0	U
66-27-3	Methyl methanesulfonate	50.0	U
55-18-5	N-Nitrosodiethylamine	10.0	U
62-50-0	Ethyl methanesulfonate	50.0	U
76-01-7	Pentachloroethane	10.0	U
98-86-2	Acetophenone	50.0	U
930-55-2	N-Nitrosopyrrolidine	10.0	U
59-89-2	N-Nitrosomorpholine	10.0	U
95-53-4	o-Toluidine	10.0	U
106-50-3	p-Phenylenediamine	10.0	U
100-75-4	N-Nitrosopiperidine	10.0	U
29088-49-1	a,a-Dimethylphenylethylamine	10.0	U
87-65-0	2,6-Dichlorophenol	10.0	U
1888-71-7	Hexachloropropene	10.0	U
924-16-3	N-Nitrosodibutylamine	10.0	U
120-58-1	Isosafrole	10.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U
94-59-7	Safrole	10.0	U
90-13-1	1-Chloronaphthalene	10.0	U
130-15-4	1,4-Naphthoquinone	10.0	U
99-65-0	m-Dinitrobenzene	10.0	U
608-93-5	Pentachlorobenzene	10.0	U
91-59-8	2-Naphthylamine	10.0	U
134-32-7	1-Naphthylamine	10.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U
99-55-8	5-Nitro-o-toluidine	10.0	U
99-35-4	1,3,5-Trinitrobenzene	10.0	U
2303-16-4	Diallate	10.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

MW000RF1MW2

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN424

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-44-2	Phenacetin	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
92-67-1	4-Aminobiphenyl	50.0	U
82-68-8	Pentachloronitrobenzene	10.0	U
23950-58-5	Pronamide	10.0	U
88-85-7	Dinoseb	10.0	U
56-57-5	4-Nitroquinoline-1-oxide	10.0	U
91-80-5	Methapyrilene	10.0	U
465-73-6	Isodrin	10.0	U
140-57-8	Aromite	10.0	U
60-11-7	p-(Dimethylamino)azobenzene	10.0	U
510-15-6	Chlorobenzilate	10.0	U
	3,3'-Dimethylbenzidine	10.0	U
143-50-0	Kepone	10.0	U
53-96-3	2-Actylaminofluorene	10.0	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10.0	U
70-30-4	Hexachlorophene	50.0	U
56-49-5	3-Methylcholanthrene	10.0	U
224-42-9	Dibenz[a,j]acridine	50.0	U
86-30-6	N-Nitroso- & Diphenylamine	10.0	U
91-20-3	Naphthalene	10.0	U
126-68-1	Triethyl thiophosphate	10.0	U
60-51-5	Dimethoate	10.0	U
298-04-4	Disolfonton	10.0	U
298-00-0	Methyl parathion	10.0	U
56-38-2	Parathion	10.0	U
298-02-2	Phorate	10.0	U
3689-24-5	Sulfotep	10.0	U
297-97-2	Thionazin	10.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

KEARNEY SAMPLE NO.

MW000RF1MW2

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN424

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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29.				
30.				

FORM I SV-TIC

Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN424.d
Lab Smp Id: D96-10809-3 Client Smp ID: Kearney 1000/1
Inj Date : 04-OCT-1996 01:44
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/1 09-30-96 AT Kearney BTL#10
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 6 2-Fluorophenol (SS)	112.00	4.206	4.182	(0.679)	35759	58.5	58.5
$ 10 Phenol-d6 (SS)	99.00	5.622	5.621	(0.908)	38745	63.3	63.3
13 Bis(2-Chloroethyl)Ether	93.00	5.785	5.784	(0.934)	24115	47.4	47.4
* 16 1,4-Dichlorobenzene-d4	152.00	6.191	6.191	(1.000)	19420	40.0	
27 4-Methylphenol	108.00	6.981	6.982	(1.127)	37412	88.9	88.9
$ 29 Nitrobenzene-d5 (SS)	82.00	7.202	7.203	(0.842)	32327	42.2	42.2
* 42 Naphthalene-d8	136.00	8.549	8.552	(1.000)	63747	40.0	
$ 58 2-Fluorobiphenyl (SS)	172.00	10.756	10.760	(0.889)	57591	38.6	38.6
* 67 Acenaphthene-d10	164.00	12.092	12.097	(1.000)	39628	40.0	
$ 88 2,4,6-Tribromophenol (SS)	330.00	14.090	14.097	(1.165)	23170	76.0	76.0
* 101 Phenanthrene-d10	188.00	16.088	16.096	(1.000)	65622	40.0	
$ 116 Terphenyl-d14 (SS)	244.00	20.211	20.218	(0.899)	31742	21.5	21.5
* 126 Chrysene-d12	240.00	22.478	22.483	(1.000)	50815	40.0	
* 135 Perylene-d12	264.00	25.326	25.331	(1.000)	46787	40.0	

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem3/ITS5.i/100396.b/DN424.d
Lab Smp Id: D96-10809-3 Client Smp ID: Kearney 1000/1
Inj Date : 04-OCT-1996 01:44
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/1 09-30-96 AT Kearney BTL#10
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ITS5.i
Lab File ID: DN424.d
Lab Smp Id: D96-10809-3
Analysis Type: SV
Quant Type: ISTD
Operator: WSW
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 AT Kearney BTL#10

Calibration Date: 10/03/96
Calibration Time: 2045
Client Smp ID: Kearney 1000/1
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	27981	13990	55962	19420	-30.60
42 Naphthalene-d8	85693	42846	171386	63747	-25.61
67 Acenaphthene-d10	47296	23648	94592	39628	-16.21
101 Phenanthrene-d10	83215	41608	166430	65622	-21.14
126 Chrysene-d12	56462	28231	112924	50815	-10.00
135 Perylene-d12	51173	25586	102346	46787	-8.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	6.19	5.69	6.69	6.19	0.01
42 Naphthalene-d8	8.55	8.05	9.05	8.55	-0.03
67 Acenaphthene-d10	12.10	11.60	12.60	12.09	-0.04
101 Phenanthrene-d10	16.10	15.60	16.60	16.09	-0.05
126 Chrysene-d12	22.48	21.98	22.98	22.48	-0.02
135 Perylene-d12	25.33	24.83	25.83	25.33	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-3
Level: LOW
Data Type: MS DATA
SpikeList File: 8270_100.spk
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 AT Kearney BTL#10

Client SDG: 100396
Fraction: SV
Client Smp ID: Kearney 1000/1
Operator: WSW
SampleType: SAMPLE
Quant Type: ISTD

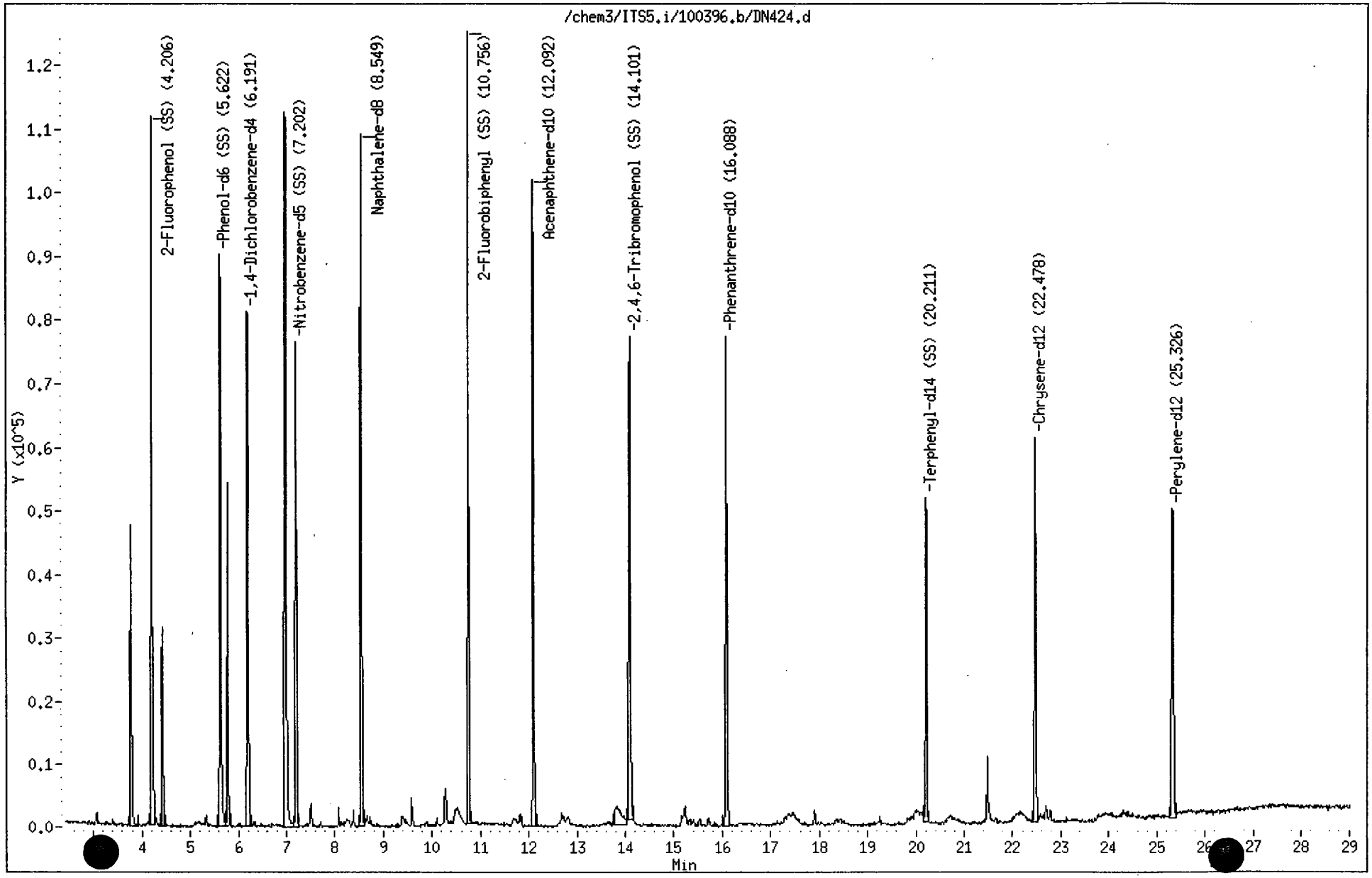
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Fluorophenol (SS	100	58.5	58.52	30-120
$ 10 Phenol-d6 (SS)	100	63.3	63.33	30-110
$ 29 Nitrobenzene-d5 (S	50.0	42.2	84.31	35-114
$ 58 2-Fluorobiphenyl (	50.0	38.6	77.25	43-116
$ 88 2,4,6-Tribromophen	100	76.0	76.00	25-135
$ 116 Terphenyl-d14 (SS)	50.0	21.5	43.05	33-141

242

Data File: /chem3/ITS5.i/100396.b/DN424.d
Date : 04-OCT-1996 01:44
Client ID: Kearney 1000/1
Sample Info: IL_8270_L;;AB879-90;1
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



Data File: /chem3/ITS5.i/100396.b/DN424.d

Date : 04-OCT-1996 01:44

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

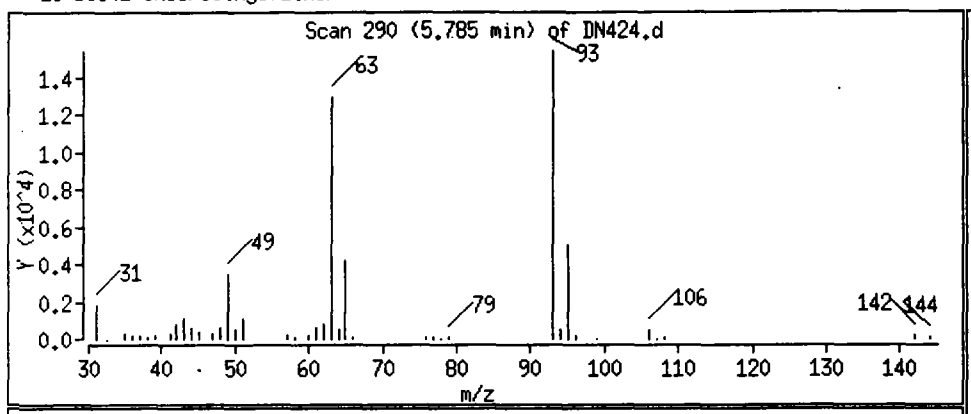
Volume Injected (uL): 1.0

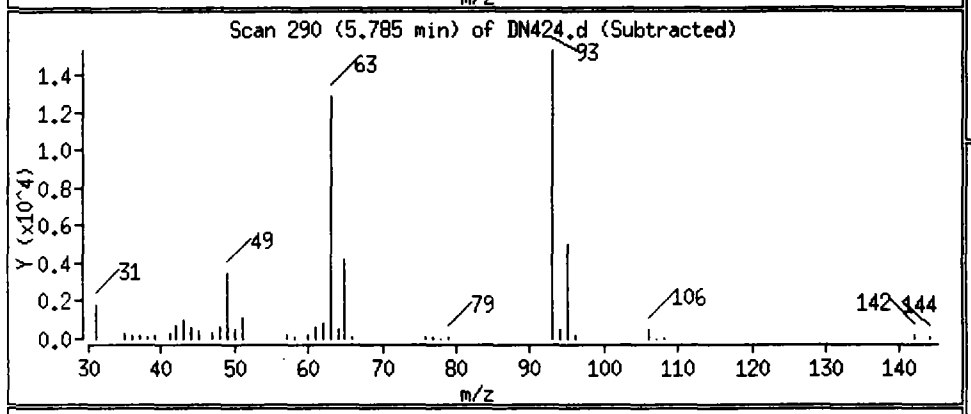
Operator: WSW

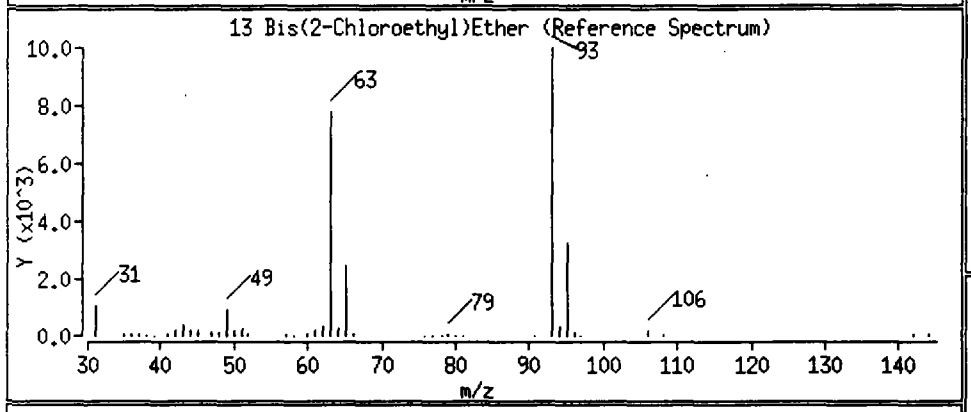
Column phase: DB-5

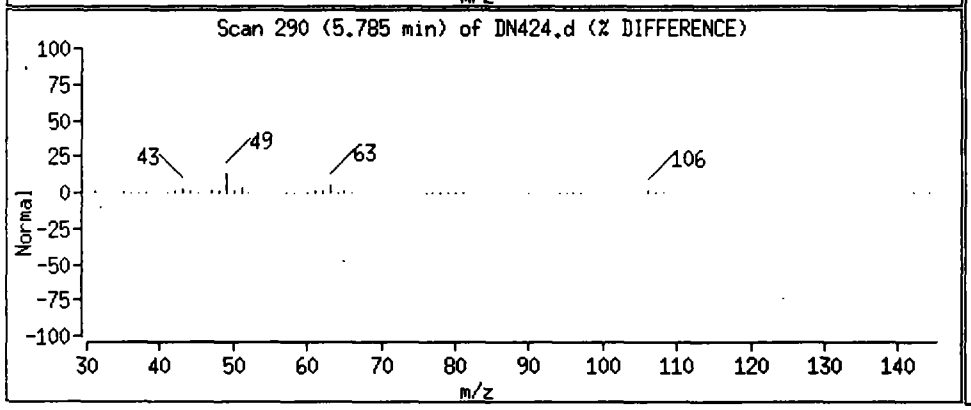
Column diameter: 0.25

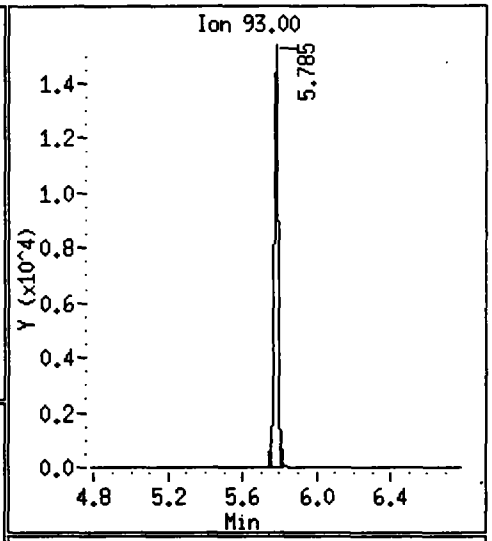
13 Bis(2-Chloroethyl)Ether

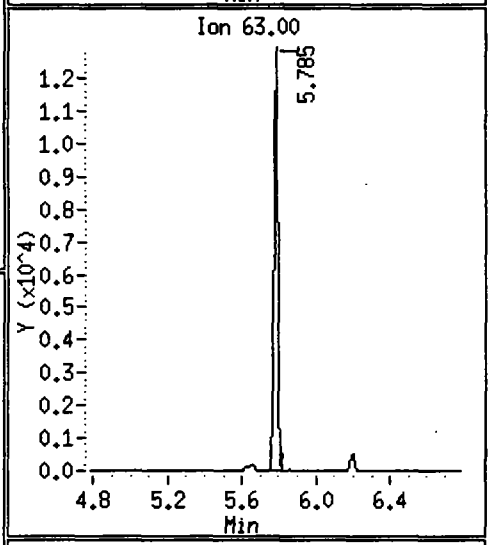


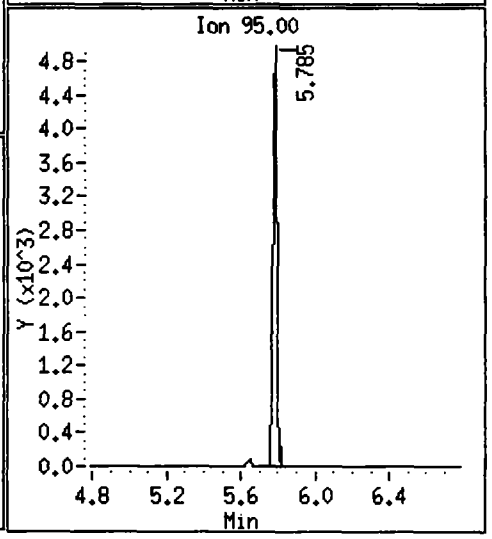












Data File: /chem3/ITS5.i/100396.b/DN424.d

Date : 04-OCT-1996 01:44

Client ID: Kearney · 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

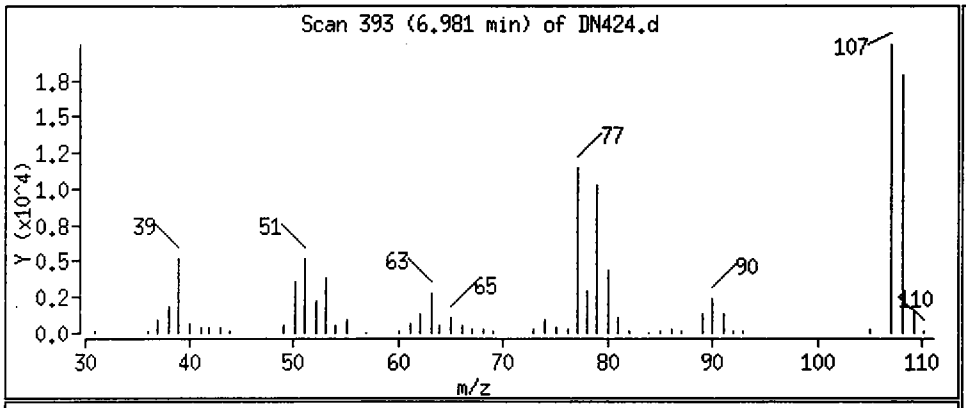
Volume Injected (uL): 1.0

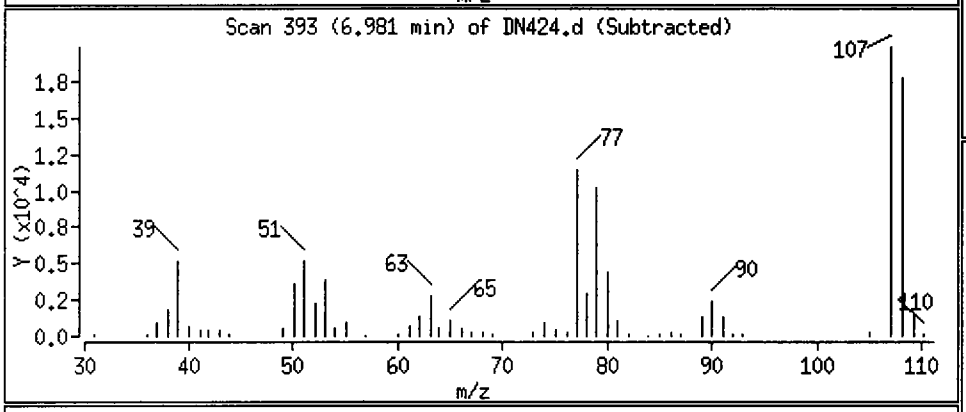
Operator: WSW

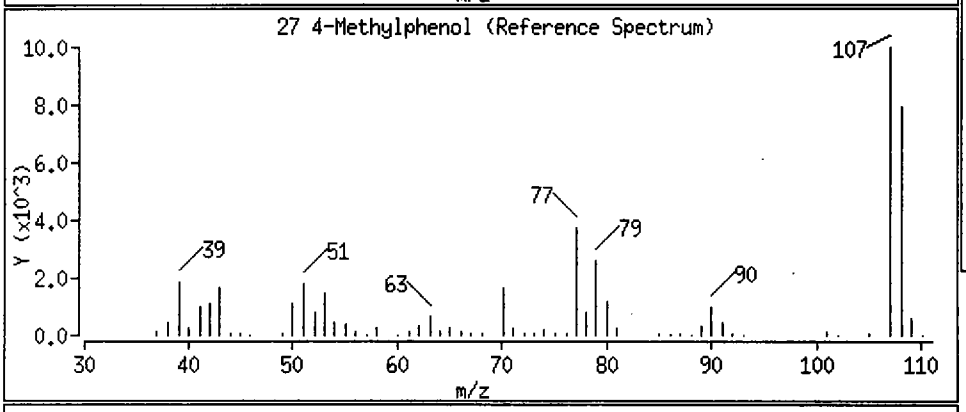
Column phase: DB-5

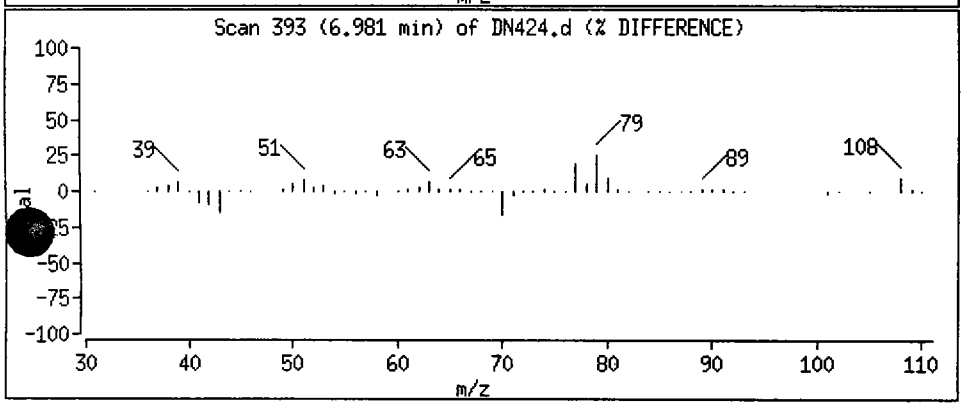
Column diameter: 0.25

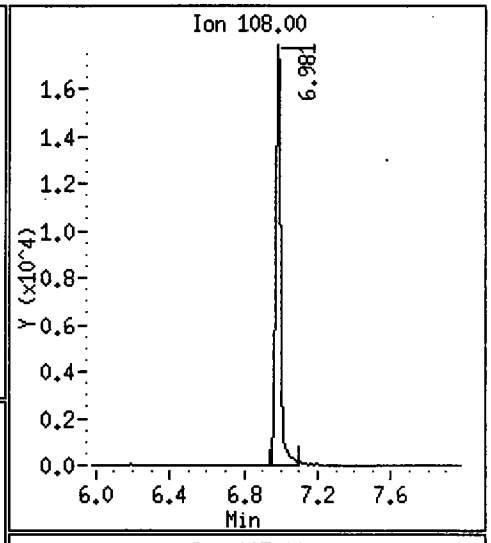
27 4-Methylphenol

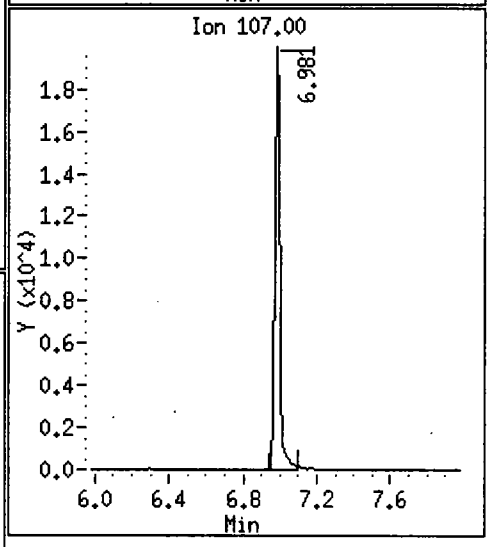












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

RF1MW15

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN428

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10.0	U
62-53-3	Aniline	50.0	U
108-95-2	Phenol	10.0	U
111-44-4	Bis(2-Chloroethyl)Ether	10.0	U
95-57-8	2-Chlorophenol	10.0	U
541-73-1	1,3-Dichlorobenzene	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
100-51-6	Benzyl alcohol	20.0	U
95-50-1	1,2-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
39638-32-9	Bis(2-Chloroisopropyl)ether	10.0	U
106-44-5	4-Methylphenol	10.0	U
621-64-7	N-Nitroso-di-n-propylamine	10.0	U
67-72-1	Hexachloroethane	10.0	U
98-95-3	Nitrobenzene	10.0	U
78-59-1	Isophorone	10.0	U
88-75-5	2-Nitrophenol	10.0	U
105-67-9	2,4-Dimethylphenol	10.0	U
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U
65-85-0	Benzoic acid	50.0	U
120-83-2	2,4-Dichlorophenol	10.0	U
120-82-1	1,2,4-Trichlorobenzene	10.0	U
106-47-8	4-Chloroaniline	20.0	U
87-68-3	Hexachlorobutadiene	10.0	U
59-50-7	4-Chloro-3-methylphenol	20.0	U
91-57-6	2-Methylnaphthalene	10.0	U
77-47-4	Hexachlorocyclopentadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	50.0	U
91-58-7	2-Chloronaphthalene	10.0	U
88-74-4	2-Nitroaniline	50.0	U
131-11-3	Dimethyl phthalate	10.0	U
208-96-8	Acenaphthylene	10.0	U

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

RF1MW15

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN428

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10.0	U
99-09-2	3-Nitroaniline	50.0	U
83-32-9	Acenaphthene	10.0	U
51-28-5	2,4-Dinitrophenol	50.0	U
132-64-9	Dibenzofuran	10.0	U
100-02-7	4-Nitrophenol	50.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
84-66-2	Diethyl phthalate	10.0	U
86-73-7	Fluorene	10.0	U
7005-72-3	4-Chlorophenylphenyl ether	10.0	U
100-01-6	4-Nitroaniline	50.0	U
534-52-1	4,6-Dinitro-2-methylphenol	50.0	U
86-30-6	N-Nitrosodiphenylamine (1)	10.0	U
103-33-3	1,2-Diphenylhydrazine	50.0	U
101-55-3	4-Bromophenylphenyl ether	10.0	U
87-86-5	Pentachlorophenol	50.0	U
92875	Benzidine	50.0	U
85-01-8	Phenanthrene	10.0	U
120-12-7	Anthracene	10.0	U
86-74-8	Carbazole	10.0	U
84-74-2	Di-n-butylphthalate	10.0	U
206-44-0	Fluoranthene	10.0	U
129-00-0	Pyrene	10.0	U
85-68-7	Butyl benzyl phthalate	10.0	U
56-55-3	Benzo(a)anthracene	10.0	U
91-94-1	3,3'-Dichlorobenzidine	20.0	U
218-01-9	Chrysene	10.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.16	J
117-84-0	Di-n-octylphthalate	10.0	U
205-99-2	Benzo(b)fluoranthene	10.0	U
207-08-9	Benzo(k)fluoranthene	10.0	U
50-32-8	Benzo(a)pyrene	10.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U

(1) - Cannot be separated from Diphenylamine

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

RF1MW15

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN428

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
53-70-3	Dibenz(a,h)anthracene	10.0	U
191-24-2	Benzo(g,h,i)perylene	10.0	U
110-86-1	Pyridine	10.0	U
	m,p-Cresol	10.0	U
109-06-8	2-Picoline	50.0	U
10595-95-6	N-Nitrosomethylethylamine	10.0	U
66-27-3	Methyl methanesulfonate	50.0	U
55-18-5	N-Nitrosodiethylamine	10.0	U
62-50-0	Ethyl methanesulfonate	50.0	U
76-01-7	Pentachloroethane	10.0	U
98-86-2	Acetophenone	50.0	U
930-55-2	N-Nitrosopyrrolidine	10.0	U
59-89-2	N-Nitrosomorpholine	10.0	U
95-53-4	o-Toluidine	10.0	U
106-50-3	p-Phenylenediamine	10.0	U
100-75-4	N-Nitrosopiperidine	10.0	U
29088-49-1	a,a-Dimethylphenylethylamine	10.0	U
87-65-0	2,6-Dichlorophenol	10.0	U
1888-71-7	Hexachloropropene	10.0	U
924-16-3	N-Nitrosodibutylamine	10.0	U
120-58-1	Isosafrole	10.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U
94-59-7	Safrole	10.0	U
90-13-1	1-Chloronaphthalene	10.0	U
130-15-4	1,4-Naphthoquinone	10.0	U
99-65-0	m-Dinitrobenzene	10.0	U
608-93-5	Pentachlorobenzene	10.0	U
91-59-8	2-Naphthylamine	10.0	U
134-32-7	1-Naphthylamine	10.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U
99-55-8	5-Nitro-o-toluidine	10.0	U
99-35-4	1,3,5-Trinitrobenzene	10.0	U
2303-16-4	Diallate	10.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

RF1MW15

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN428

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-44-2	Phenacetin	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
92-67-1	4-Aminobiphenyl	50.0	U
82-68-8	Pentachloronitrobenzene	10.0	U
23950-58-5	Pronamide	10.0	U
88-85-7	Dinoseb	10.0	U
56-57-5	4-Nitroquinoline-1-oxide	10.0	U
91-80-5	Methapyrilene	10.0	U
465-73-6	Isodrin	10.0	U
140-57-8	Aromite	10.0	U
60-11-7	p-(Dimethylamino)azobenzene	10.0	U
510-15-6	Chlorobenzilate	10.0	U
	3,3'-Dimethylbenzidine	10.0	U
143-50-0	Kepone	10.0	U
53-96-3	2-Actylaminofluorene	10.0	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10.0	U
70-30-4	Hexachlorophene	50.0	U
56-49-5	3-Methylcholanthrene	10.0	U
224-42-9	Dibenz[a,j]acridine	50.0	U
86-30-6	N-Nitroso- & Diphenylamine	10.0	U
91-20-3	Naphthalene	10.0	U
126-68-1	Triethyl thiophosphate	10.0	U
60-51-5	Dimethoate	10.0	U
298-04-4	Disolfonton	10.0	U
298-00-0	Methyl parathion	10.0	U
56-38-2	Parathion	10.0	U
298-02-2	Phorate	10.0	U
3689-24-5	Sulfotep	10.0	U
297-97-2	Thionazin	10.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

KEARNEY SAMPLE NO.

RF1MW15

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN428

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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17.				
18.				
19.				
20.				
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24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN428.d
Lab Smp Id: D96-10809-4 Client Smp ID: Kearney 1000/1
Inj Date : 04-OCT-1996 04:11
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/1 09-30-96 AT Kearney BTL#14
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 6 2-Fluorophenol (SS)	112.00	4.205	4.182	(0.678)	46708	74.3	74.3
$ 10 Phenol-d6 (SS)	99.00	5.633	5.621	(0.908)	48410	76.9	76.9
* 16 1,4-Dichlorobenzene-d4	152.00	6.202	6.191	(1.000)	19975	40.0	
$ 29 Nitrobenzene-d5 (SS)	82.00	7.200	7.203	(0.842)	32927	45.5	45.5
* 42 Naphthalene-d8	136.00	8.547	8.552	(1.000)	60099	40.0	
$ 58 2-Fluorobiphenyl (SS)	172.00	10.764	10.760	(0.890)	63143	46.1	46.1
* 67 Acenaphthene-d10	164.00	12.099	12.097	(1.000)	36427	40.0	
$ 88 2,4,6-Tribromophenol (SS)	330.00	14.096	14.097	(1.165)	28041	100	100
* 101 Phenanthrene-d10	188.00	16.093	16.096	(1.000)	67350	40.0	
$ 116 Terphenyl-d14 (SS)	244.00	20.216	20.218	(0.900)	34117	20.6	20.6
* 126 Chrysene-d12	240.00	22.470	22.483	(1.000)	57000	40.0	
128 Bis(2-ethylhexyl)phthalate	149.00	22.691	22.693	(1.010)	7641	5.16	5.16(a)
* 135 Perylene-d12	264.00	25.329	25.331	(1.000)	47230	40.0	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem3/ITS5.i/100396.b/DN428.d
Lab Smp Id: D96-10809-4 Client Smp ID: Kearney 1000/1
Inj Date : 04-OCT-1996 04:11
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/1 09-30-96 AT Kearney BTL#14
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ITS5.i
Lab File ID: DN428.d
Lab Smp Id: D96-10809-4
Analysis Type: SV
Quant Type: ISTD
Operator: WSW
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 AT Kearney BTL#14

Calibration Date: 10/03/96
Calibration Time: 2045
Client Smp ID: Kearney 1000/1
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	27981	13990	55962	19975	-28.61
42 Naphthalene-d8	85693	42846	171386	60099	-29.87
67 Acenaphthene-d10	47296	23648	94592	36427	-22.98
101 Phenanthrene-d10	83215	41608	166430	67350	-19.07
126 Chrysene-d12	56462	28231	112924	57000	0.95
135 Perylene-d12	51173	25586	102346	47230	-7.71

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	6.19	5.69	6.69	6.20	0.17
42 Naphthalene-d8	8.55	8.05	9.05	8.55	-0.06
67 Acenaphthene-d10	12.10	11.60	12.60	12.10	0.02
101 Phenanthrene-d10	16.10	15.60	16.60	16.09	-0.02
126 Chrysene-d12	22.48	21.98	22.98	22.47	-0.05
135 Perylene-d12	25.33	24.83	25.83	25.33	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-4
Level: LOW
Data Type: MS DATA
SpikeList File: 8270_100.spk
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 AT Kearney BTL#14

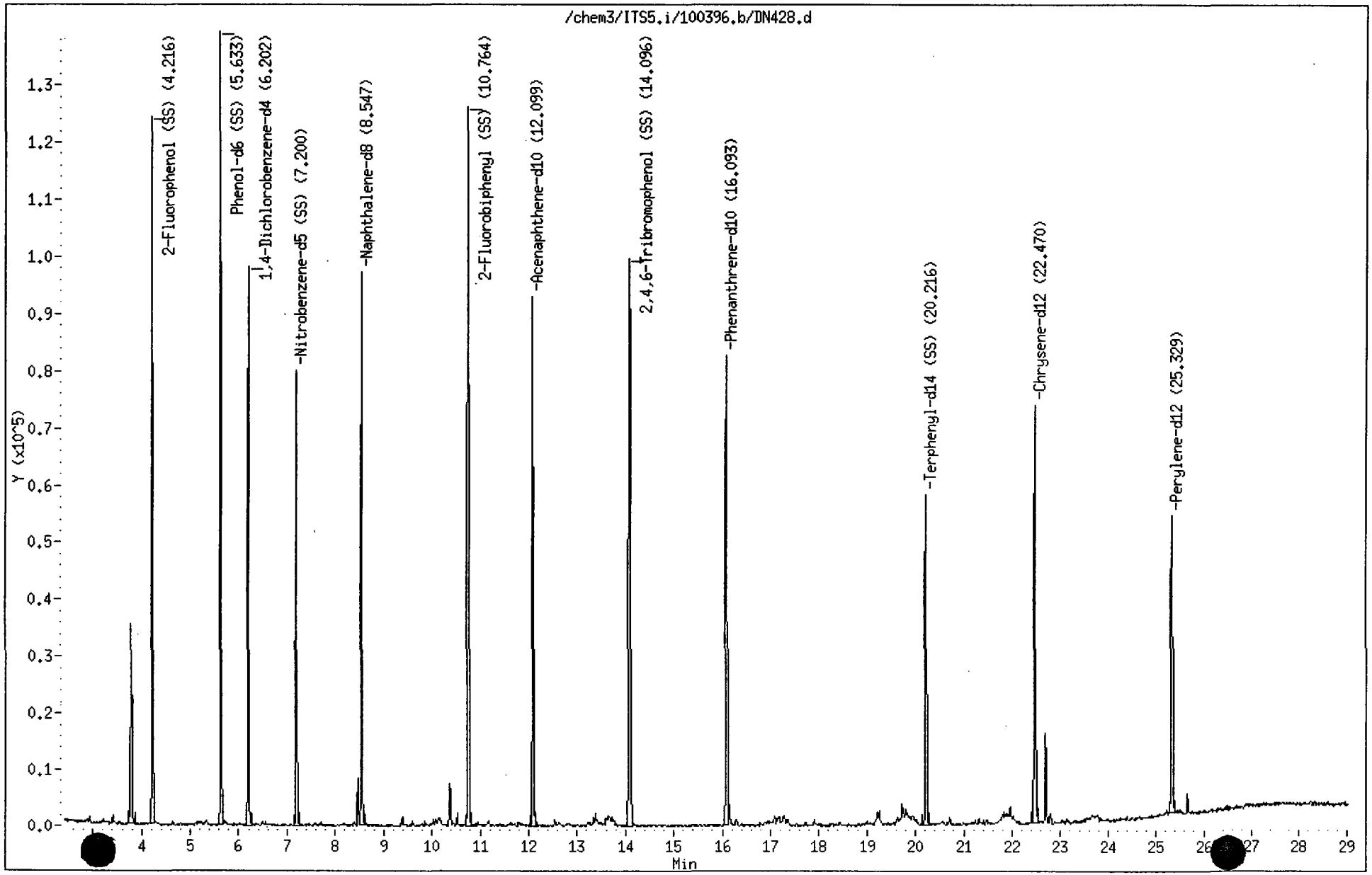
Client SDG: 100396
Fraction: SV
Client Smp ID: Kearney 1000/1
Operator: WSW
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Fluorophenol (SS	100	74.3	74.32	30-120
$ 10 Phenol-d6 (SS)	100	76.9	76.93	30-110
$ 29 Nitrobenzene-d5 (S	50.0	45.5	91.09	35-114
$ 58 2-Fluorobiphenyl (	50.0	46.1	92.15	43-116
$ 88 2,4,6-Tribromophen	100	100	100.07	25-135
$ 116 Terphenyl-d14 (SS)	50.0	20.6	41.25	33-141

Data File: /chem3/ITS5.i/100396.b/DN428.d
Date : 04-OCT-1996 04:11
Client ID: Kearney 1000/1
Sample Info: IL_8270_L:;AB879-90;1
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



Data File: /chem3/ITS5.i/100396.b/DN428.d

Date : 04-OCT-1996 04:11

Client ID: Kearney 1000/1

Instrument: ITS5.i

Sample Info: IL_8270_L;;AB879-90;1

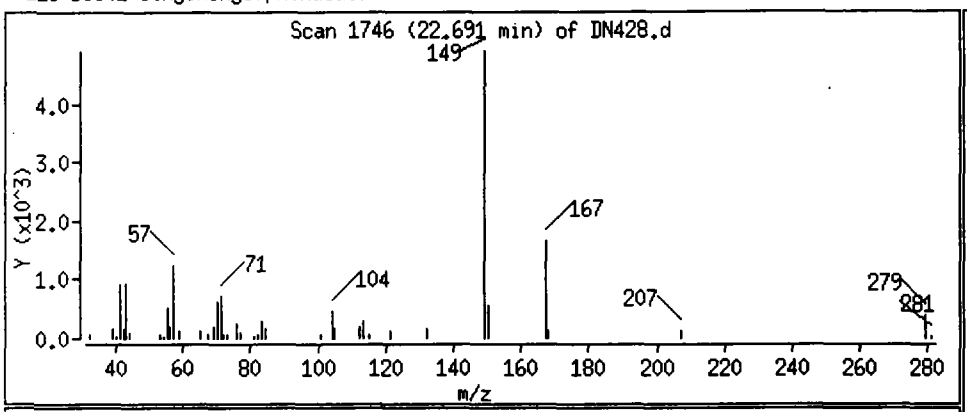
Volume Injected (uL): 1.0

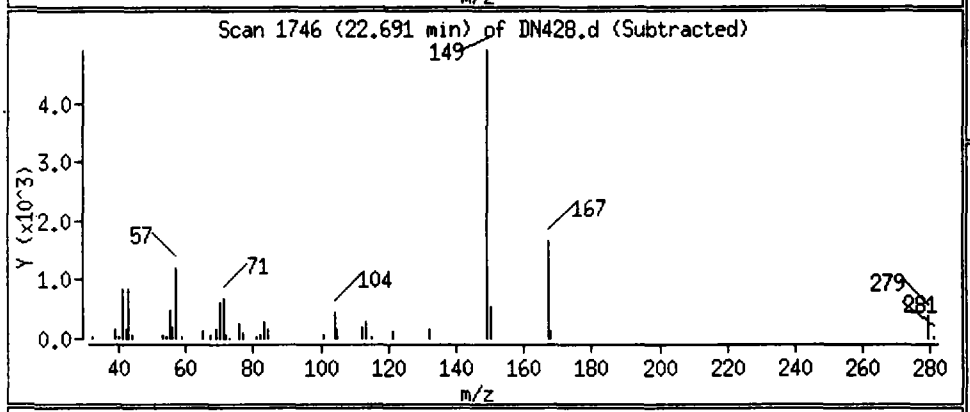
Operator: WSW

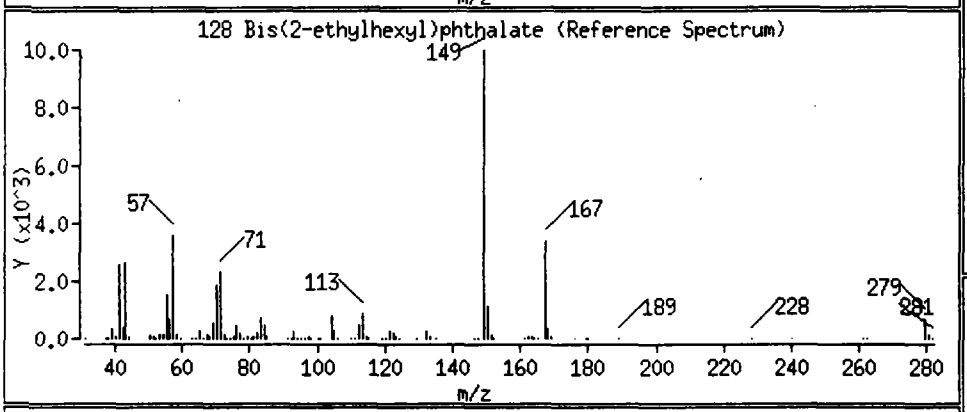
Column phase: DB-5

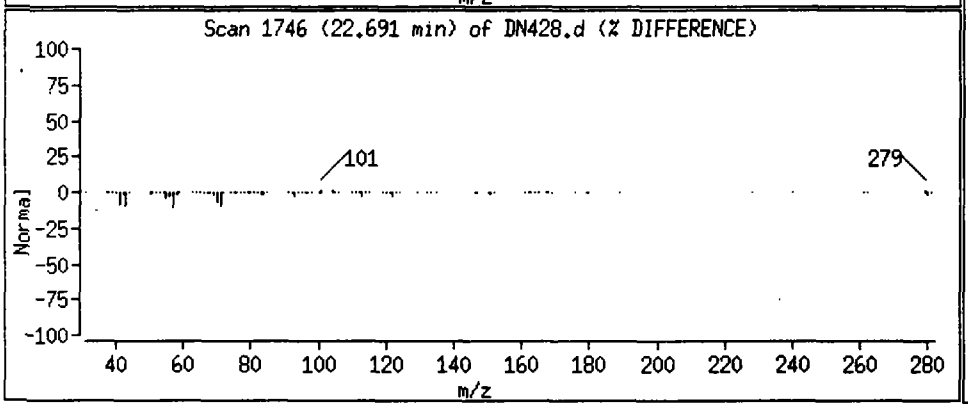
Column diameter: 0.25

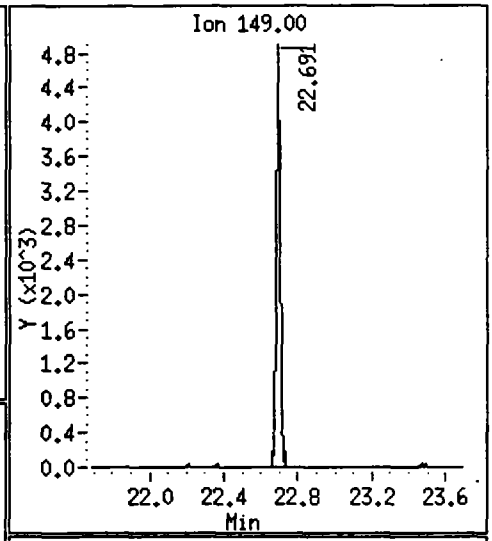
128 Bis(2-ethylhexyl)phthalate

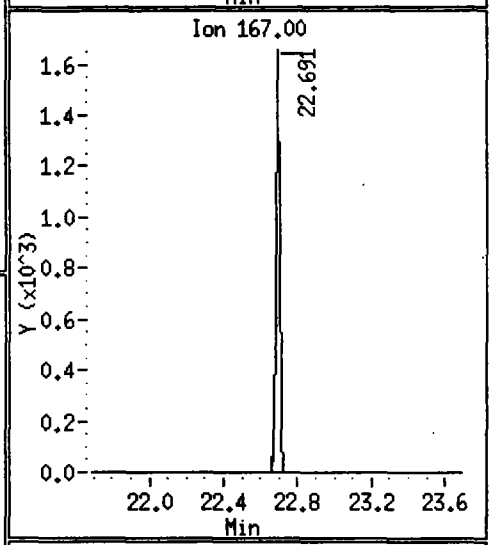


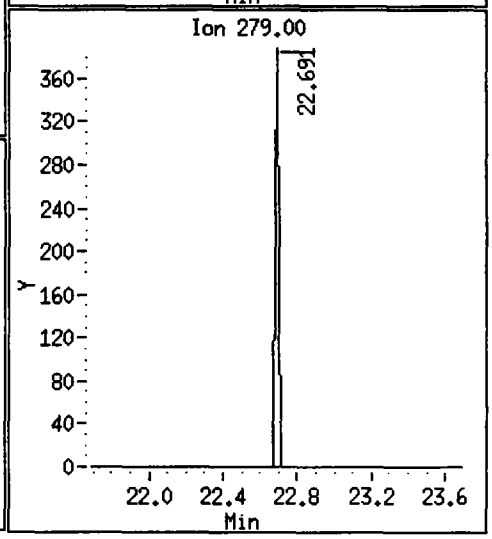












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

RF1MW15 RE

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN426

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	100	U
62-53-3	Aniline	500	U
108-95-2	Phenol	100	U
111-44-4	Bis(2-Chloroethyl)Ether	100	U
95-57-8	2-Chlorophenol	100	U
541-73-1	1,3-Dichlorobenzene	100	U
106-46-7	1,4-Dichlorobenzene	100	U
100-51-6	Benzyl alcohol	200	U
95-50-1	1,2-Dichlorobenzene	100	U
95-48-7	2-Methylphenol	100	U
39638-32-9	Bis(2-Chloroisopropyl)ether	100	U
106-44-5	4-Methylphenol	100	U
621-64-7	N-Nitroso-di-n-propylamine	100	U
67-72-1	Hexachloroethane	100	U
98-95-3	Nitrobenzene	100	U
78-59-1	Isophorone	100	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	100	U
111-91-1	Bis(2-Chloroethoxy)methane	100	U
65-85-0	Benzoic acid	500	U
120-83-2	2,4-Dichlorophenol	100	U
120-82-1	1,2,4-Trichlorobenzene	100	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	100	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	100	U
77-47-4	Hexachlorocyclopentadiene	100	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	500	U
91-58-7	2-Chloronaphthalene	100	U
88-74-4	2-Nitroaniline	500	U
131-11-3	Dimethyl phthalate	100	U
208-96-8	Acenaphthylene	100	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

RF1MW15 RE

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN426

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	100	U
99-09-2	3-Nitroaniline	500	U
83-32-9	Acenaphthene	100	U
51-28-5	2,4-Dinitrophenol	500	U
132-64-9	Dibenzofuran	100	U
100-02-7	4-Nitrophenol	500	U
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethyl phthalate	100	U
86-73-7	Fluorene	100	U
7005-72-3	4-Chlorophenylphenyl ether	100	U
100-01-6	4-Nitroaniline	500	U
534-52-1	4,6-Dinitro-2-methylphenol	500	U
86-30-6	N-Nitrosodiphenylamine (1)	100	U
103-33-3	1,2-Diphenylhydrazine	500	U
101-55-3	4-Bromophenylphenyl ether	100	U
87-86-5	Pentachlorophenol	500	U
92875	Benzidine	500	U
85-01-8	Phenanthrene	100	U
120-12-7	Anthracene	100	U
86-74-8	Carbazole	100	U
84-74-2	Di-n-butylphthalate	100	U
206-44-0	Fluoranthene	100	U
129-00-0	Pyrene	100	U
85-68-7	Butyl benzyl phthalate	100	U
56-55-3	Benzo(a)anthracene	100	U
91-94-1	3,3'-Dichlorobenzidine	200	U
218-01-9	Chrysene	100	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	U
117-84-0	Di-n-octylphthalate	100	U
205-99-2	Benzo(b)fluoranthene	100	U
207-08-9	Benzo(k)fluoranthene	100	U
50-32-8	Benzo(a)pyrene	100	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

RF1MW15 RE

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN426

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
53-70-3	Dibenz(a,h)anthracene	100	U
191-24-2	Benzo(g,h,i)perylene	100	U
110-86-1	Pyridine	100	U
	m,p-Cresol	100	U
109-06-8	2-Picoline	500	U
10595-95-6	N-Nitrosomethylethylamine	100	U
66-27-3	Methyl methanesulfonate	500	U
55-18-5	N-Nitrosodiethylamine	100	U
62-50-0	Ethyl methanesulfonate	500	U
76-01-7	Pentachloroethane	100	U
98-86-2	Acetophenone	500	U
930-55-2	N-Nitrosopyrrolidine	100	U
59-89-2	N-Nitrosomorpholine	100	U
95-53-4	o-Toluidine	100	U
106-50-3	p-Phenylenediamine	100	U
100-75-4	N-Nitrosopiperidine	100	U
29088-49-1	a,a-Dimethylphenylethylamine	100	U
87-65-0	2,6-Dichlorophenol	100	U
1888-71-7	Hexachloropropene	100	U
924-16-3	N-Nitrosodibutylamine	100	U
120-58-1	Isosafrole	100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U
94-59-7	Safrole	100	U
90-13-1	1-Chloronaphthalene	100	U
130-15-4	1,4-Naphthoquinone	100	U
99-65-0	m-Dinitrobenzene	100	U
608-93-5	Pentachlorobenzene	100	U
91-59-8	2-Naphthylamine	100	U
134-32-7	1-Naphthylamine	100	U
58-90-2	2,3,4,6-Tetrachlorophenol	100	U
99-55-8	5-Nitro-o-toluidine	100	U
99-35-4	1,3,5-Trinitrobenzene	100	U
2303-16-4	Diallate	100	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

RF1MW15 RE

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN426

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-44-2	Phenacetin	100	U
118-74-1	Hexachlorobenzene	100	U
92-67-1	4-Aminobiphenyl	500	U
82-68-8	Pentachloronitrobenzene	100	U
23950-58-5	Pronamide	100	U
88-85-7	Dinoseb	100	U
56-57-5	4-Nitroquinoline-1-oxide	100	U
91-80-5	Methapyrilene	100	U
465-73-6	Isodrin	100	U
140-57-8	Aromite	100	U
60-11-7	p-(Dimethylamino)azobenzene	100	U
510-15-6	Chlorobenzilate	100	U
----------	3,3'-Dimethylbenzidine	100	U
143-50-0	Kepone	100	U
53-96-3	2-Actylaminofluorene	100	U
57-97-6	7,12-Dimethylbenz(a)anthrace	100	U
70-30-4	Hexachlorophene	500	U
56-49-5	3-Methylcholanthrene	100	U
224-42-9	Dibenz[a,j]acridine	500	U
86-30-6	N-Nitroso- & Diphenylamine	100	U
91-20-3	Naphthalene	100	U
126-68-1	Triethyl thiophosphate	100	U
60-51-5	Dimethoate	100	U
298-04-4	Disolfonton	100	U
298-00-0	Methyl parathion	100	U
56-38-2	Parathion	100	U
298-02-2	Phorate	100	U
3689-24-5	Sulfotep	100	U
297-97-2	Thionazin	100	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

KEARNEY SAMPLE NO.

RF1MW15 RE

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN426

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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28.				
29.				
30.				

FORM I SV-TIC

Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN426.d
Lab Smp Id: D96-10809-4 Client Smp ID: RF1MW15 RE
Inj Date : 04-OCT-1996 02:58
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/10 09-30-96 AT Kearney BTL#12
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1
Dil Factor: 10.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 6 2-Fluorophenol (SS)	112.00	4.189	4.182	(0.676)	5307	7.45	74.5(a)
$ 10 Phenol-d6 (SS)	99.00	5.616	5.621	(0.906)	5370	7.53	75.3(a)
* 16 1,4-Dichlorobenzene-d4	152.00	6.197	6.191	(1.000)	22640	40.0	
$ 29 Nitrobenzene-d5 (SS)	82.00	7.195	7.203	(0.842)	3009	3.59	35.9(a)
* 42 Naphthalene-d8	136.00	8.541	8.552	(1.000)	69595	40.0	
$ 58 2-Fluorobiphenyl (SS)	172.00	10.747	10.760	(0.889)	7015	4.88	48.8(a)
* 67 Acenaphthene-d10	164.00	12.093	12.097	(1.000)	38167	40.0	
$ 88 2,4,6-Tribromophenol (SS)	330.00	14.078	14.097	(1.164)	1923	6.55	65.5(a)
* 101 Phenanthrene-d10	188.00	16.086	16.096	(1.000)	69311	40.0	
$ 116 Terphenyl-d14 (SS)	244.00	20.206	20.218	(0.899)	2782	1.84	18.4(a)
* 126 Chrysene-d12	240.00	22.469	22.483	(1.000)	52112	40.0	
* 135 Perylene-d12	264.00	25.325	25.331	(1.000)	48272	40.0	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem3/ITS5.i/100396.b/DN426.d
Lab Smp Id: D96-10809-4 Client Smp ID: RF1MW15 RE
Inj Date : 04-OCT-1996 02:58
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/10 09-30-96 AT Kearney BTL#12
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1
Dil Factor: 10.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ITS5.i
Lab File ID: DN426.d
Lab Smp Id: D96-10809-4
Analysis Type: SV
Quant Type: ISTD
Operator: WSW
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/10 09-30-96 AT Kearney BTL#12

Calibration Date: 10/03/96
Calibration Time: 2045
Client Smp ID: RF1MW15 RE
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	27981	13990	55962	22640	-19.09
42 Naphthalene-d8	85693	42846	171386	69595	-18.79
67 Acenaphthene-d10	47296	23648	94592	38167	-19.30
101 Phenanthrene-d10	83215	41608	166430	69311	-16.71
126 Chrysene-d12	56462	28231	112924	52112	-7.70
135 Perylene-d12	51173	25586	102346	48272	-5.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	6.19	5.69	6.69	6.20	0.10
42 Naphthalene-d8	8.55	8.05	9.05	8.54	-0.12
67 Acenaphthene-d10	12.10	11.60	12.60	12.09	-0.03
101 Phenanthrene-d10	16.10	15.60	16.60	16.09	-0.06
126 Chrysene-d12	22.48	21.98	22.98	22.47	-0.06
135 Perylene-d12	25.33	24.83	25.83	25.32	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name: KEARNEY
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-4
Level: LOW
Data Type: MS DATA
SpikeList File: 8270_100.spk
Client SDG: SV10809
Fraction: SV
Client Smp ID: RF1MW15 RE
Operator: WSW
SampleType: SAMPLE
Quant Type: ISTD
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/10 09-30-96 AT Kearney BTL#12

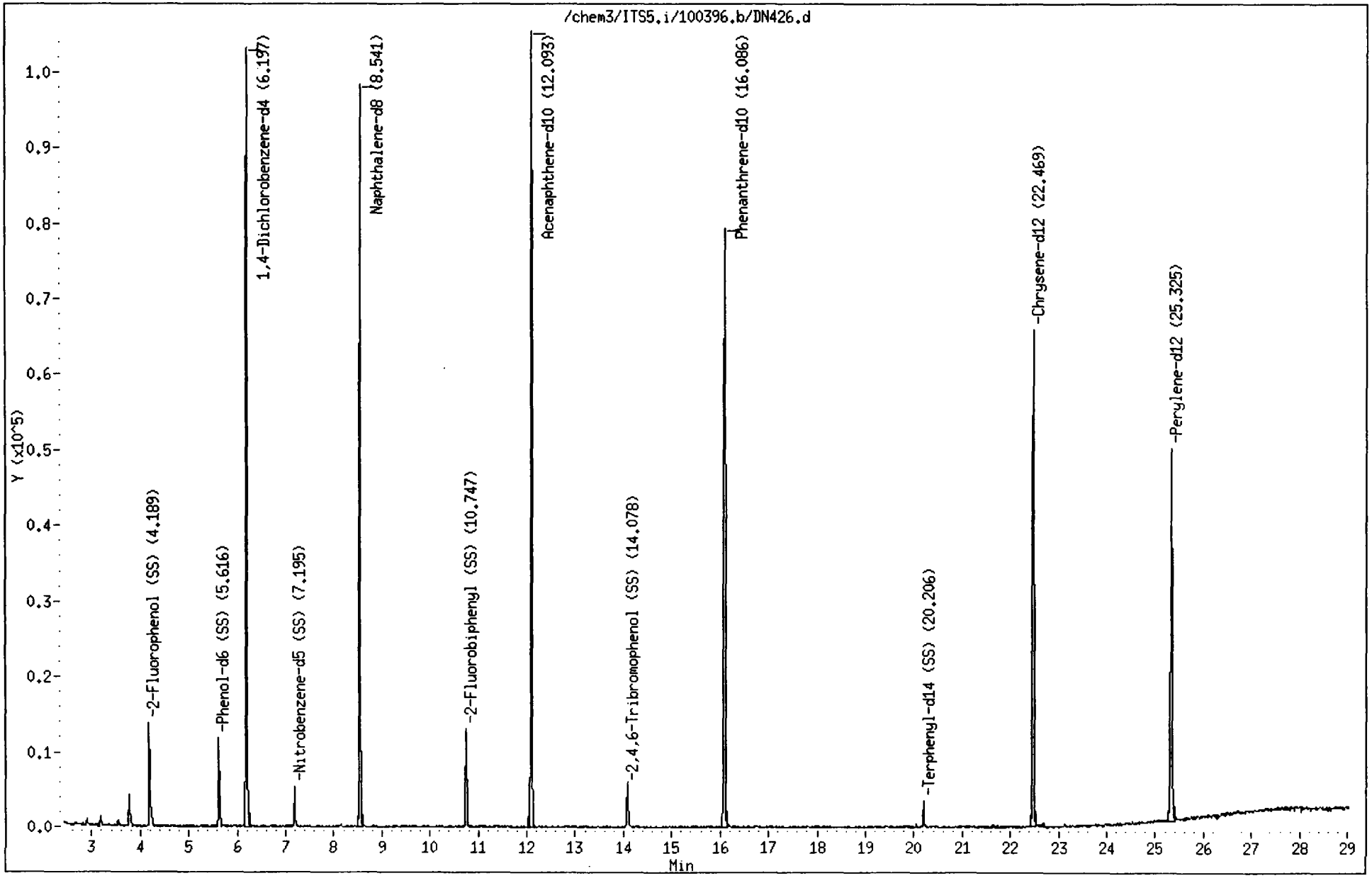
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Fluorophenol (SS	100	74.5	74.50	30-120
$ 10 Phenol-d6 (SS)	100	75.3	75.29	30-110
$ 29 Nitrobenzene-d5 (S	50.0	35.9	71.88	35-114
$ 58 2-Fluorobiphenyl (	50.0	48.8	97.70	43-116
$ 88 2,4,6-Tribromophen	100	65.5	65.49	25-135
$ 116 Terphenyl-d14 (SS)	50.0	18.4	36.79	33-141

265

Data File: /chem3/ITS5.i/100396.b/DN426.d
Date : 04-OCT-1996 02:58
Client ID: RF1MW15 RE
Sample Info: IL_8270_L;;AB879-90;1
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

RF1MW115F

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN425

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10.0	U
62-53-3	Aniline	50.0	U
108-95-2	Phenol	10.0	U
111-44-4	Bis(2-Chloroethyl)Ether	10.0	U
95-57-8	2-Chlorophenol	10.0	U
541-73-1	1,3-Dichlorobenzene	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
100-51-6	Benzyl alcohol	20.0	U
95-50-1	1,2-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
39638-32-9	Bis(2-Chloroisopropyl)ether	10.0	U
106-44-5	4-Methylphenol	10.0	U
621-64-7	N-Nitroso-di-n-propylamine	10.0	U
67-72-1	Hexachloroethane	10.0	U
98-95-3	Nitrobenzene	10.0	U
78-59-1	Isophorone	10.0	U
88-75-5	2-Nitrophenol	10.0	U
105-67-9	2,4-Dimethylphenol	10.0	U
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U
65-85-0	Benzoic acid	50.0	U
120-83-2	2,4-Dichlorophenol	10.0	U
120-82-1	1,2,4-Trichlorobenzene	10.0	U
106-47-8	4-Chloroaniline	20.0	U
87-68-3	Hexachlorobutadiene	10.0	U
59-50-7	4-Chloro-3-methylphenol	20.0	U
91-57-6	2-Methylnaphthalene	10.0	U
77-47-4	Hexachlorocyclopentadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	50.0	U
91-58-7	2-Chloronaphthalene	10.0	U
88-74-4	2-Nitroaniline	50.0	U
131-11-3	Dimethyl phthalate	10.0	U
208-96-8	Acenaphthylene	10.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

RF1MW115F

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN425

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10.0	U
99-09-2	3-Nitroaniline	50.0	U
83-32-9	Acenaphthene	10.0	U
51-28-5	2,4-Dinitrophenol	50.0	U
132-64-9	Dibenzofuran	10.0	U
100-02-7	4-Nitrophenol	50.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
84-66-2	Diethyl phthalate	10.0	U
86-73-7	Fluorene	10.0	U
7005-72-3	4-Chlorophenylphenyl ether	10.0	U
100-01-6	4-Nitroaniline	50.0	U
534-52-1	4,6-Dinitro-2-methylphenol	50.0	U
86-30-6	N-Nitrosodiphenylamine (1)	10.0	U
103-33-3	1,2-Diphenylhydrazine	50.0	U
101-55-3	4-Bromophenylphenyl ether	10.0	U
87-86-5	Pentachlorophenol	50.0	U
92875	Benzidine	50.0	U
85-01-8	Phenanthrene	10.0	U
120-12-7	Anthracene	10.0	U
86-74-8	Carbazole	10.0	U
84-74-2	Di-n-butylphthalate	10.0	U
206-44-0	Fluoranthene	10.0	U
129-00-0	Pyrene	10.0	U
85-68-7	Butyl benzyl phthalate	10.0	U
56-55-3	Benzo(a)anthracene	10.0	U
91-94-1	3,3'-Dichlorobenzidine	20.0	U
218-01-9	Chrysene	10.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U
117-84-0	Di-n-octylphthalate	10.0	U
205-99-2	Benzo(b)fluoranthene	10.0	U
207-08-9	Benzo(k)fluoranthene	10.0	U
50-32-8	Benzo(a)pyrene	10.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U

(1) - Cannot be separated from Diphenylamine

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

RF1MW115F

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN425

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
53-70-3	Dibenz(a,h)anthracene	10.0	U
191-24-2	Benzo(g,h,i)perylene	10.0	U
110-86-1	Pyridine	10.0	U
	m,p-Cresol	10.0	U
109-06-8	2-Picoline	50.0	U
10595-95-6	N-Nitrosomethylethylamine	10.0	U
66-27-3	Methyl methanesulfonate	50.0	U
55-18-5	N-Nitrosodiethylamine	10.0	U
62-50-0	Ethyl methanesulfonate	50.0	U
76-01-7	Pentachloroethane	10.0	U
98-86-2	Acetophenone	50.0	U
930-55-2	N-Nitrosopyrrolidine	10.0	U
59-89-2	N-Nitrosomorpholine	10.0	U
95-53-4	o-Toluidine	10.0	U
106-50-3	p-Phenylenediamine	10.0	U
100-75-4	N-Nitrosopiperidine	10.0	U
29088-49-1	a,a-Dimethylphenylethylamine	10.0	U
87-65-0	2,6-Dichlorophenol	10.0	U
1888-71-7	Hexachloropropene	10.0	U
924-16-3	N-Nitrosodibutylamine	10.0	U
120-58-1	Isosafrole	10.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U
94-59-7	Safrole	10.0	U
90-13-1	1-Chloronaphthalene	10.0	U
130-15-4	1,4-Naphthoquinone	10.0	U
99-65-0	m-Dinitrobenzene	10.0	U
608-93-5	Pentachlorobenzene	10.0	U
91-59-8	2-Naphthylamine	10.0	U
134-32-7	1-Naphthylamine	10.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U
99-55-8	5-Nitro-o-toluidine	10.0	U
99-35-4	1,3,5-Trinitrobenzene	10.0	U
2303-16-4	Diallate	10.0	U

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

KEARNEY SAMPLE NO.

RF1MW115F

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN425

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-44-2	Phenacetin	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
92-67-1	4-Aminobiphenyl	50.0	U
82-68-8	Pentachloronitrobenzene	10.0	U
23950-58-5	Pronamide	10.0	U
88-85-7	Dinoseb	10.0	U
56-57-5	4-Nitroquinoline-1-oxide	10.0	U
91-80-5	Methapyrilene	10.0	U
465-73-6	Isodrin	10.0	U
140-57-8	Aromite	10.0	U
60-11-7	p-(Dimethylamino)azobenzene	10.0	U
510-15-6	Chlorobenzilate	10.0	U
----------	3,3'-Dimethylbenzidine	10.0	U
143-50-0	Kepone	10.0	U
53-96-3	2-Actylaminofluorene	10.0	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10.0	U
70-30-4	Hexachlorophene	50.0	U
56-49-5	3-Methylcholanthrene	10.0	U
224-42-9	Dibenz[a,j]acridine	50.0	U
86-30-6	N-Nitroso- & Diphenylamine	10.0	U
91-20-3	Naphthalene	10.0	U
126-68-1	Triethyl thiophosphate	10.0	U
60-51-5	Dimethoate	10.0	U
298-04-4	Disolfonton	10.0	U
298-00-0	Methyl parathion	10.0	U
56-38-2	Parathion	10.0	U
298-02-2	Phorate	10.0	U
3689-24-5	Sulfotep	10.0	U
297-97-2	Thionazin	10.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

KEARNEY SAMPLE NO.

RF1MW115F

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN425

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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FORM I SV-TIC

Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN425.d
Lab Smp Id: D96-10809-5 Client Smp ID: Kearney 1000/1
Inj Date : 04-OCT-1996 02:21
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/1 09-30-96 AT Kearney BTL#11
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 6 2-Fluorophenol (SS)	112.00	4.205	4.182	(0.678)	48364	76.4	76.4
$ 10 Phenol-d6 (SS)	99.00	5.634	5.621	(0.908)	51783	81.6	81.6
* 16 1,4-Dichlorobenzene-d4	152.00	6.203	6.191	(1.000)	20130	40.0	
$ 29 Nitrobenzene-d5 (SS)	82.00	7.201	7.203	(0.842)	34934	46.5	46.5
* 42 Naphthalene-d8	136.00	8.548	8.552	(1.000)	62438	40.0	
$ 58 2-Fluorobiphenyl (SS)	172.00	10.754	10.760	(0.889)	62588	43.5	43.5
* 67 Acenaphthene-d10	164.00	12.090	12.097	(1.000)	38226	40.0	
$ 88 2,4,6-Tribromophenol (SS)	330.00	14.098	14.097	(1.166)	29750	101	101
* 101 Phenanthrene-d10	188.00	16.094	16.096	(1.000)	72085	40.0	
$ 116 Terphenyl-d14 (SS)	244.00	20.207	20.218	(0.899)	27659	15.6	15.6(R)
* 126 Chrysene-d12	240.00	22.474	22.483	(1.000)	60923	40.0	
* 135 Perylene-d12	264.00	25.333	25.331	(1.000)	58452	40.0	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem3/ITS5.i/100396.b/DN425.d
Lab Smp Id: D96-10809-5 Client Smp ID: Kearney 1000/1
Inj Date : 04-OCT-1996 02:21
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/1 09-30-96 AT Kearney BTL#11
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ITS5.i
Lab File ID: DN425.d
Lab Smp Id: D96-10809-5
Analysis Type: SV
Quant Type: ISTD
Operator: WSW
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 AT Kearney BTL#11

Calibration Date: 10/03/96
Calibration Time: 2045
Client Smp ID: Kearney 1000/1
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	27981	13990	55962	20130	-28.06
42 Naphthalene-d8	85693	42846	171386	62438	-27.14
67 Acenaphthene-d10	47296	23648	94592	38226	-19.18
101 Phenanthrene-d10	83215	41608	166430	72085	-13.37
126 Chrysene-d12	56462	28231	112924	60923	7.90
135 Perylene-d12	51173	25586	102346	58452	14.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	6.19	5.69	6.69	6.20	0.19
42 Naphthalene-d8	8.55	8.05	9.05	8.55	-0.05
67 Acenaphthene-d10	12.10	11.60	12.60	12.09	-0.06
101 Phenanthrene-d10	16.10	15.60	16.60	16.09	-0.01
126 Chrysene-d12	22.48	21.98	22.98	22.47	-0.04
135 Perylene-d12	25.33	24.83	25.83	25.33	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: D96-10809-5
Level: LOW
Data Type: MS DATA
SpikeList File: 8270_100.spk
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 AT Kearney BTL#11

Client SDG: 100396
Fraction: SV
Client Smp ID: Kearney 1000/1
Operator: WSW
SampleType: SAMPLE
Quant Type: ISTD

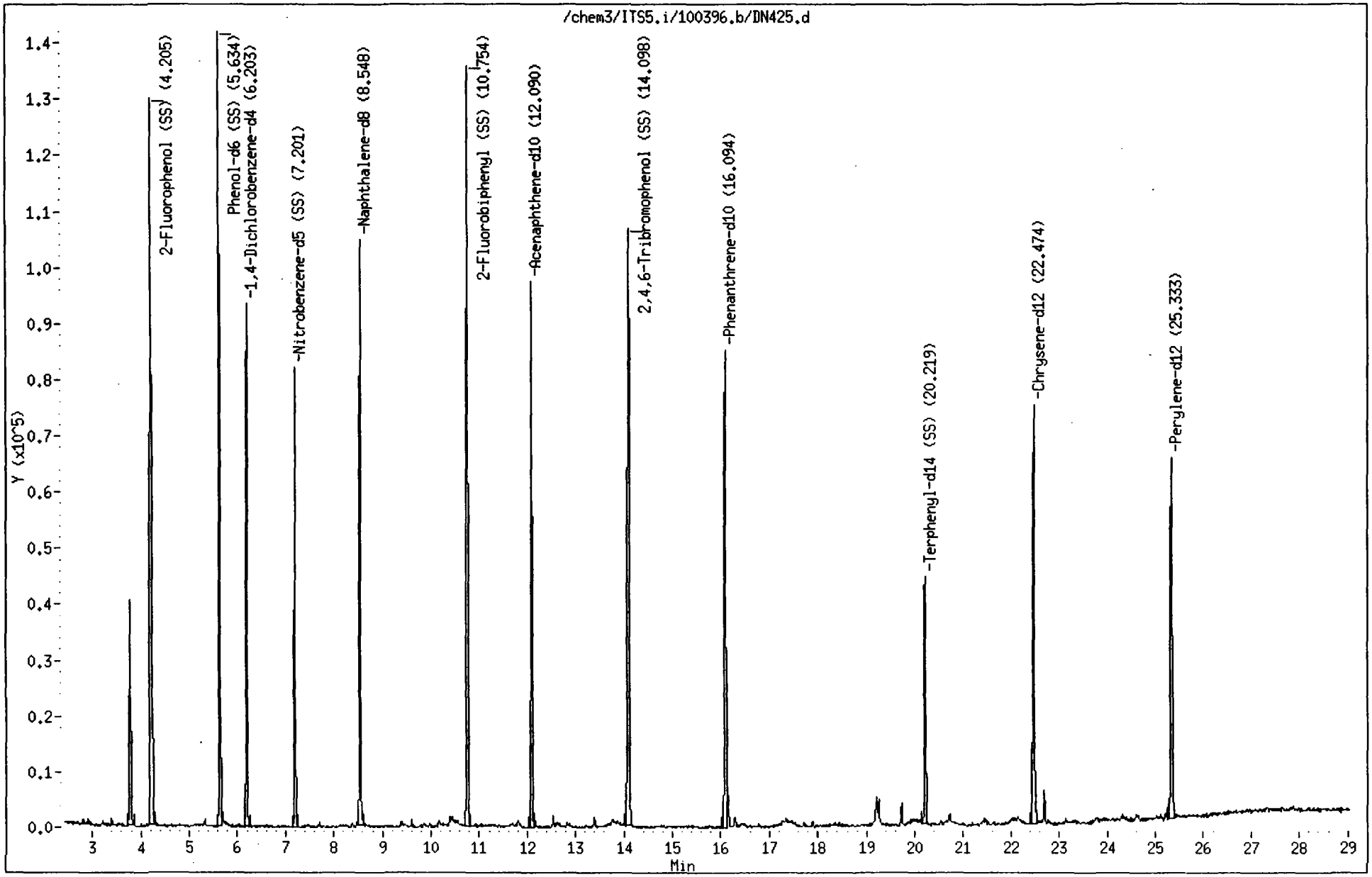
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Fluorophenol (SS	100	76.4	76.36	30-120
$ 10 Phenol-d6 (SS)	100	81.6	81.65	30-110
$ 29 Nitrobenzene-d5 (S	50.0	46.5	93.02	35-114
$ 58 2-Fluorobiphenyl (	50.0	43.5	87.04	43-116
$ 88 2,4,6-Tribromophen	100	101	101.17	25-135
$ 116 Terphenyl-d14 (SS)	50.0	15.6	31.29*	33-141

275

Data File: /chem3/ITS5.i/100396.b/DN425.d
Date : 04-OCT-1996 02:21
Client ID: Kearney 1000/1
Sample Info: IL_8270_L;;AB879-90;1
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



STANDARDS DATA

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Instrument ID: ITS5 Calibration Date(s): 07/30/96 09/26/96

Calibration Time(s): 1157 1734

LAB FILE ID: RRF20 =DN326 RRF50 =DN318
RRF80 =DN325 RRF120=DN324 RRF160=DN323

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
N-Nitrosodimethylamine *	0.639	0.644	0.642	0.664	0.586	0.635	4.6*
Aniline *	1.497	1.434	1.398	1.394	1.379	1.420	3.3*
Phenol *	1.330	1.361	1.197	1.163	1.171	1.244	7.5*
Bis(2-Chloroethyl)Ether *	1.133	1.125	1.047	1.030	1.038	1.075	4.7*
2-Chlorophenol *	1.325	1.303	1.211	1.252	1.213	1.261	4.1*
1,3-Dichlorobenzene *	1.653	1.551	1.483	1.488	1.453	1.526	5.2*
1,4-Dichlorobenzene *	1.702	1.601	1.542	1.576	1.505	1.585	4.7*
Benzyl alcohol *	0.549	0.611	0.462	0.467	0.573	0.532	12.4*
1,2-Dichlorobenzene *	1.568	1.476	1.388	1.408	1.378	1.444	5.5*
2-Methylphenol *	0.920	0.937	0.798	0.780	0.826	0.852	8.4*
Bis(2-Chloroisopropyl)ether *	1.333	1.485	1.243	1.246	1.224	1.306	8.3*
4-Methylphenol *	0.928	0.892	0.781	0.812	0.855	0.854	6.9*
N-Nitroso-di-n-propylamine *	0.935	0.925	0.838	0.927	0.898	0.905	4.4*
Hexachloroethane *	0.853	0.850	0.794	0.778	0.785	0.812	4.5*
Nitrobenzene *	0.460	0.488	0.454	0.452	0.443	0.459	3.7*
Isophorone *	0.766	0.784	0.703	0.748	0.729	0.746	4.2*
2-Nitrophenol *	0.212	0.225	0.213	0.211	0.208	0.214	3.1*
2,4-Dimethylphenol *	0.447	0.459	0.396	0.392	0.419	0.423	7.1*
Bis(2-Chloroethoxy)methane *	0.446	0.440	0.409	0.406	0.390	0.418	5.7*
Benzoic acid *	0.152	0.213	0.213	0.264	0.219	0.212	18.8*
2,4-Dichlorophenol *	0.359	0.364	0.356	0.333	0.312	0.345	6.3*
1,2,4-Trichlorobenzene *	0.436	0.407	0.393	0.368	0.362	0.393	7.7*
4-Chloroaniline *	0.463	0.442	0.431	0.423	0.406	0.433	4.9*
Hexachlorobutadiene *	0.362	0.339	0.321	0.295	0.291	0.322	9.3*
4-Chloro-3-methylphenol *	0.353	0.402	0.352	0.384	0.374	0.373	5.8*
2-Methylnaphthalene *	0.683	0.656	0.603	0.606	0.592	0.628	6.3*
Hexachlorocyclopentadiene *	0.484	0.574	0.559	0.590	0.563	0.554	7.4*
2,4,6-Trichlorophenol *	0.467	0.476	0.443	0.446	0.454	0.457	3.1*
2,4,5-Trichlorophenol *	0.447	0.503	0.447	0.503	0.500	0.480	6.3*
2-Chloronaphthalene *	1.318	1.242	1.171	1.203	1.155	1.218	5.3*
2-Nitroaniline *	0.420	0.498	0.511	0.498	0.528	0.491	8.5*
Dimethyl phthalate *	1.630	1.610	1.521	1.591	1.517	1.574	3.3*
Acenaphthylene *	1.851	1.805	1.695	1.750	1.734	1.767	3.5*
2,6-Dinitrotoluene *	0.332	0.369	0.347	0.375	0.364	0.357	4.8*
3-Nitroaniline *	0.316	0.353	0.367	0.348	0.359	0.349	5.6*
Acenaphthene *	1.252	1.174	1.117	1.154	1.127	1.165	4.6*
2,4-Dinitrophenol *	0.126	0.204	0.205	0.277	0.251	0.213	26.9*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Instrument ID: ITS5 Calibration Date(s): 07/30/96 09/26/96

Calibration Time(s): 1157 1734

LAB FILE ID: RRF20 =DN326 RRF50 =DN318
RRF80 =DN325 RRF120=DN324 RRF160=DN323

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran *	1.784	1.661	1.534	1.543	1.500	1.604	7.3*
4-Nitrophenol *	0.292	0.365	0.342	0.422	0.424	0.369	15.1*
2,4-Dinitrotoluene *	0.469	0.486	0.466	0.511	0.485	0.483	3.7*
Diethyl phthalate *	1.723	1.724	1.625	1.675	1.610	1.671	3.2*
Fluorene *	1.342	1.314	1.226	1.264	1.204	1.270	4.5*
4-Chlorophenylphenyl ether *	0.728	0.704	0.659	0.663	0.640	0.679	5.3*
4-Nitroaniline *	0.264	0.341	0.376	0.342	0.366	0.338	13.0*
4,6-Dinitro-2-methylphenol *	0.124	0.156	0.158	0.169	0.162	0.154	11.4*
N-Nitrosodiphenylamine (1) *	0.463	0.460	0.424	0.392	0.400	0.428	7.6*
1,2-Diphenylhydrazine *	0.976	0.941	0.887	0.890	0.848	0.908	5.5*
4-Bromophenylphenyl ether *	0.237	0.231	0.218	0.193	0.200	0.216	8.8*
Pentachlorophenol *	0.148	0.179	0.171	0.182	0.190	0.174	9.1*
Benzidine *	0.697	0.772	0.856	0.825	0.866	0.803	8.7*
Phenanthrene *	1.056	1.001	0.951	0.840	0.822	0.934	10.8*
Anthracene *	1.025	0.961	0.924	0.826	0.818	0.911	9.7*
Carbazole *	1.152	1.085	1.016	0.963	0.914	1.026	9.3*
Di-n-butylphthalate *	1.476	1.415	1.379	1.291	1.207	1.354	7.8*
Fluoranthene *	1.208	0.999	1.068	0.984	0.892	1.030	11.4*
Pyrene *	1.434	1.794	1.455	1.435	1.439	1.511	10.5*
Butyl benzyl phthalate *	0.777	0.909	0.806	0.847	0.779	0.824	6.7*
Benzo(a)anthracene *	1.188	1.206	1.136	1.109	1.043	1.136	5.7*
3,3'-Dichlorobenzidine *	0.452	0.498	0.525	0.522	0.537	0.507	6.7*
Chrysene *	1.284	1.296	1.208	1.197	1.106	1.218	6.3*
Bis(2-ethylhexyl)phthalate *	1.040	1.171	1.042	1.065	0.963	1.056	7.1*
Di-n-octylphthalate *	1.642	1.926	1.720	1.512	1.760	1.712	8.9*
Benzo(b)fluoranthene *	1.180	1.234	1.200	1.143	1.147	1.181	3.2*
Benzo(k)fluoranthene *	1.360	1.426	1.257	1.031	1.294	1.274	11.8*
Benzo(a)pyrene *	1.050	1.084	1.024	0.940	0.983	1.016	5.6*
Indeno(1,2,3-cd)pyrene *	1.288	1.237	1.158	1.170	1.019	1.174	8.7*
Dibenz(a,h)anthracene *	1.068	1.002	0.957	0.936	0.842	0.961	8.7*
Benzo(g,h,i)perylene *	1.061	1.008	0.950	1.009	0.818	0.969	9.6*
Pyridine *	1.664	1.672	1.664	1.414	1.597	1.602	6.8*
m,p-Cresol *	1.341	1.208	1.191	1.066	0.990	1.159	11.7*
2-Picoline *	1.782	1.396	1.427	1.391	1.363	1.472	11.9*
N-Nitrosomethylethylamine *	0.688	0.605	0.620	0.605	0.601	0.624	5.9*
Methyl methanesulfonate *	1.044	1.025	1.009	0.997	0.976	1.010	2.6*
N-Nitrosodiethylamine *	0.725	0.642	0.657	0.611	0.596	0.646	7.8*

(1) Cannot be seperated from Diphenylamine
* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Instrument ID: ITS5 Calibration Date(s): 07/30/96 09/26/96

Calibration Time(s): 1157 1734

LAB FILE ID: RRF20 =DN326 RRF50 =DN318
RRF80 =DN325 RRF120=DN324 RRF160=DN323

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Ethyl methanesulfonate *	1.342	1.265	1.304	1.275	1.231	1.283	3.3*
Pentachloroethane *	0.631	0.622	0.610	0.599	0.583	0.609	3.1*
Acetophenone *	1.844	1.748	1.783	1.737	1.632	1.749	4.4*
N-Nitrosopyrrolidine *	0.710	0.637	0.691	0.709	0.692	0.688	4.3*
N-Nitrosomorpholine *	1.025	0.831	0.864	0.804	0.750	0.855	12.2*
o-Toluidine *	2.216	1.798	1.763	1.599	1.417	1.759	16.9*
p-Phenylenediamine *	0.669	0.501	0.723	0.686	0.626	0.641	13.3*
N-Nitrosopiperidine *	0.211	0.207	0.207	0.197	0.192	0.203	3.9*
a,a-Dimethylphenylethylamine *	1.081	0.911	1.022	1.018	0.882	0.983	8.4*
2,6-Dichlorophenol *	0.326	0.338	0.319	0.290	0.276	0.310	8.3*
Hexachloropropene *	0.228	0.248	0.227	0.224	0.222	0.230	4.6*
N-Nitrosodibutylamine *	0.282	0.260	0.272	0.255	0.243	0.262	5.7*
Isosafrole *	0.274	0.274	0.262	0.240	0.233	0.257	7.5*
1,2,4,5-Tetrachlorobenzene *	0.339	0.332	0.315	0.290	0.283	0.312	8.0*
Safrole *	0.247	0.275	0.305	0.269	0.266	0.272	7.7*
1-Chloronaphthalene *							*<-
1,4-Naphthoquinone *	0.406	0.460	0.461	0.434	0.426	0.437	5.4*
m-Dinitrobenzene *	0.169	0.228	0.241	0.248	0.241	0.225	14.4*
Pentachlorobenzene *	0.567	0.533	0.516	0.488	0.486	0.518	6.5*
2-Naphthylamine *	0.940	0.880	0.833	0.726	0.676	0.811	13.4*
1-Naphthylamine *	1.127	1.109	1.007	0.883	0.820	0.989	13.7*
2,3,4,6-Tetrachlorophenol *	0.294	0.335	0.337	0.327	0.321	0.323	5.5*
5-Nitro-o-toluidine *	0.257	0.314	0.299	0.268	0.278	0.283	8.1*
1,3,5-Trinitrobenzene *	0.080	0.176	0.217	0.240	0.227	0.188	34.5*<-
Diallate *	0.303	0.321	0.328	0.310	0.320	0.316	3.1*
Phenacetin *	0.506	0.639	0.637	0.590	0.565	0.587	9.4*
Hexachlorobenzene *	0.644	0.622	0.604	0.626	0.575	0.614	4.2*
4-Aminobiphenyl *	1.062	1.115	1.080	0.962	0.891	1.022	9.1*
Pentachloronitrobenzene *	0.112	0.129	0.132	0.127	0.125	0.125	6.2*
Pronamide *	0.247	0.267	0.275	0.264	0.260	0.263	3.9*
Dinoseb *	0.081	0.154	0.183	0.201	0.210	0.166	31.4*<-
4-Nitroquinoline-1-oxide *	0.022	0.054	0.065	0.072	0.070	0.057	36.5*<-
Methapyrilene *	0.483	0.432	0.388	0.317	0.270	0.378	22.8*
Isodrin *	0.151	0.150	0.151	0.144	0.143	0.148	2.6*
Aromite *	0.039	0.052	0.056	0.057	0.054	0.052	14.1*
p-(Dimethylamino)azobenzene *	0.581	0.598	0.567	0.568	0.569	0.577	2.3*
Chlorobenzilate *	0.478	0.472	0.489	0.450	0.465	0.471	3.1*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS-DALLAS Contract:

Lab Code: 11169 Case No.: SAS No.: 8270B SDG No.: SV10809

Instrument ID: ITS5 Calibration Date(s): 07/30/96 09/26/96

Calibration Time(s): 1157 1734

LAB FILE ID: RRF20 =DN326 RRF50 =DN318
RRF80 =DN325 RRF120=DN324 RRF160=DN323

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
3,3'-Dimethylbenzidine *	0.312	0.342	0.303	0.236	0.201	0.279	20.9*
Kepone *	0.115	0.131	0.141	0.132	0.139	0.132	7.7*
2-Actylaminofluorene *	0.321	0.430	0.450	0.392	0.395	0.398	12.4*
7,12-Dimethylbenz(a)anthrace *	0.433	0.407	0.470	0.436	0.463	0.442	5.8*
Hexachlorophene *							*<-
3-Methylcholanthrene *	0.446	0.469	0.477	0.470	0.495	0.471	3.8*
Dibenz[a,j]acridine *							*<-
N-Nitroso- & Diphenylamine *	1.851	1.754	1.659	1.481	1.405	1.630	11.4*
Naphthalene *	1.053	1.014	0.970	0.955	0.937	0.986	4.8*
Triethyl thiophosphate *	0.165	0.158	0.151	0.138	0.124	0.147	11.1*
Dimethoate *	0.444	0.452	0.389	0.324	0.293	0.380	18.5*
Disolfonton *	0.540	0.542	0.527	0.529	0.503	0.528	2.9*
Methyl parathion *	0.212	0.248	0.215	0.203	0.178	0.211	11.9*
Parathion *	0.189	0.226	0.219	0.214	0.203	0.210	6.8*
Phorate *	0.876	0.895	0.882	0.855	0.824	0.866	3.2*
Sulfotep *	0.286	0.282	0.268	0.252	0.237	0.265	7.8*
Thionazin *	0.396	0.393	0.368	0.346	0.328	0.366	8.1*
Phenol-d6 (SS) *	1.279	1.289	1.161	1.230	1.197	1.231	4.4*
Nitrobenzene-d5 (SS) *	0.470	0.517	0.481	0.481	0.474	0.485	3.9*
2-Fluorobiphenyl (SS) *	1.521	1.462	1.397	1.399	1.368	1.429	4.3*
Terphenyl-d14 (SS) *	1.050	1.251	1.053	1.009	0.996	1.072	9.6*
2-Fluorophenol (SS) *	1.275	1.258	1.226	1.252	1.215	1.245	2.0*
2,4,6-Tribromophenol (SS) *	0.314	0.330	0.315	0.329	0.339	0.325	3.2*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS-TESTING SERVICES DALL Contract:

Lab Code: Case No.: SAS No.: SDG No.: SV10809

Instrument ID: ITS5 Calibration Date(s): 07/30/96 07/30/96

Calibration Time(s): 1157 2048

LAB FILE ID: RRF20 =DM667 RRF50 =DM668
RRF80 =DM670 RRF120=DM671 RRF160=DM669

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
N-Nitrosodimethylamine *	1.092	0.988	1.145	1.137	1.101	1.093	5.7*
Aniline *	2.422	2.155	2.063	1.906	1.759	2.061	12.2*
Phenol *	1.948	1.694	1.748	1.673	1.651	1.743	6.9*
Bis(2-chloroethyl)Ether *	1.731	1.538	1.578	1.539	1.485	1.574	6.0*
2-Chlorophenol *	1.599	1.369	1.500	1.450	1.407	1.465	6.1*
1,3-Dichlorobenzene *	1.732	1.470	1.574	1.479	1.400	1.531	8.4*
1,4-Dichlorobenzene *	1.776	1.518	1.546	1.453	1.358	1.530	10.2*
Benzyl alcohol *	0.940	0.827	0.830	0.812	0.738	0.829	8.7*
1,2-Dichlorobenzene *	1.674	1.405	1.437	1.283	1.130	1.386	14.5*
2-Methylphenol *	1.304	1.121	1.174	1.144	1.079	1.164	7.3*
Bis(2-chloroisopropyl)ether *	2.156	1.992	2.137	2.099	2.013	2.079	3.5*
4-Methylphenol *	1.300	1.125	1.079	0.968	0.822	1.059	16.9*
N-Nitroso-di-n-propylamine *	1.112	1.046	0.954	0.972	1.002	1.017	6.2*
Hexachloroethane *	0.784	0.678	0.623	0.539	0.462	0.617	20.1*
Nitrobenzene *	0.492	0.392	0.440	0.397	0.384	0.421	10.7*
Isophorone *	0.875	0.771	0.841	0.801	0.799	0.817	5.0*
2-Nitrophenol *	0.249	0.206	0.231	0.213	0.209	0.222	8.1*
2,4-Dimethylphenol *	0.307	0.311	0.267	0.253	0.265	0.281	9.5*
Bis(2-chloroethoxy)methane *	0.584	0.502	0.527	0.493	0.467	0.515	8.6*
Benzoic acid *	0.126	0.154	0.218	0.215	0.216	0.186	23.1*
2,4-Dichlorophenol *	0.341	0.284	0.302	0.268	0.258	0.291	11.3*
1,2,4-Trichlorobenzene *	0.376	0.298	0.317	0.280	0.264	0.307	14.1*
4-Chloroaniline *	0.555	0.476	0.429	0.397	0.381	0.448	15.7*
Hexachlorobutadiene *	0.208	0.164	0.173	0.150	0.141	0.167	15.5*
4-Chloro-3-methylphenol *	0.351	0.311	0.324	0.306	0.299	0.318	6.5*
2-Methylnaphthalene *	0.677	0.587	0.579	0.515	0.487	0.569	12.9*
Hexachlorocyclopentadiene *	0.398	0.353	0.374	0.350	0.329	0.361	7.2*
2,4,6-Trichlorophenol *	0.470	0.374	0.407	0.375	0.351	0.395	11.7*
2,4,5-Trichlorophenol *	0.516	0.403	0.411	0.380	0.356	0.413	14.9*
2-Chloronaphthalene *	1.446	1.123	1.183	1.069	0.999	1.164	14.7*
2-Nitroaniline *	0.554	0.487	0.508	0.523	0.498	0.514	5.0*
Dimethyl phthalate *	1.579	1.289	1.397	1.291	1.232	1.358	10.1*
Acenaphthylene *	2.272	1.817	1.887	1.643	1.425	1.809	17.4*
2,6-Dinitrotoluene *	0.367	0.314	0.364	0.346	0.338	0.346	6.2*
3-Nitroaniline *	0.409	0.369	0.393	0.391	0.387	0.390	3.7*
Acenaphthene *	1.360	1.084	1.125	1.002	0.929	1.100	14.9*
2,4-Dinitrophenol *	0.150	0.139	0.211	0.214	0.223	0.187	21.1*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS-TESTING SERVICES DALL Contract:

Lab Code: Case No.: SAS No.: SDG No.: SV10809

Instrument ID: ITS5 Calibration Date(s): 07/30/96 07/30/96

Calibration Time(s): 1157 2048

LAB FILE ID: RRF20 =DM667 RRF50 =DM668
RRF80 =DM670 RRF120=DM671 RRF160=DM669

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran *	1.839	1.494	1.545	1.405	1.296	1.516	13.5*
4-Nitrophenol *	0.149	0.111	0.166	0.159	0.169	0.151	15.8*
2,4-Dinitrotoluene *	0.486	0.394	0.484	0.458	0.457	0.456	8.2*
Diethyl phthalate *	1.517	1.230	1.274	1.117	1.016	1.231	15.4*
Fluorene *	1.406	1.103	1.116	0.978	0.866	1.094	18.5*
4-Chlorophenylphenyl ether *	0.639	0.519	0.563	0.509	0.475	0.541	11.6*
4-Nitroaniline *	0.366	0.309	0.353	0.351	0.346	0.345	6.2*
4,6-Dinitro-2-methylphenol *	0.158	0.152	0.201	0.193	0.189	0.179	12.4*
N-Nitrosodiphenylamine (1) *	0.655	0.535	0.581	0.525	0.497	0.559	11.1*
1,2-Diphenylhydrazine *	1.395	1.284	1.208	1.196	1.108	1.238	8.7*
4-Bromophenylphenyl ether *	0.230	0.209	0.224	0.204	0.196	0.213	6.6*
Pentachlorophenol *	0.181	0.167	0.205	0.193	0.188	0.187	7.6*
Benzidine *	0.713	0.716	0.777	0.781	0.744	0.746	4.3*
Phenanthrene *	1.354	1.135	1.227	1.110	1.058	1.177	9.9*
Anthracene *	1.368	1.152	1.205	1.113	1.050	1.178	10.2*
Carbazole *	1.278	1.085	1.094	1.074	1.024	1.111	8.8*
Di-n-butylphthalate *	1.777	1.567	1.694	1.387	1.249	1.535	14.1*
Fluoranthene *	1.328	1.071	1.182	1.054	1.013	1.130	11.3*
Pyrene *	2.114	1.658	2.031	1.947	1.771	1.904	9.8*
Butyl benzyl phthalate *	1.103	0.896	1.117	1.088	1.020	1.045	8.7*
Benzo(a)anthracene *	1.329	1.142	1.286	1.240	1.183	1.236	6.1*
3,3'-Dichlorobenzidine *	0.425	0.442	0.429	0.429	0.428	0.431	1.5*
Chrysene *	1.315	1.106	1.220	1.122	1.069	1.166	8.6*
Bis(2-ethylhexyl)phthalate *	1.338	1.191	1.389	1.344	1.268	1.306	5.9*
Di-n-octylphthalate *	2.886	2.268	2.832	2.631	2.513	2.626	9.5*
Benzo(b)fluoranthene *	1.434	1.170	1.365	1.269	1.268	1.301	7.8*
Benzo(k)fluoranthene *	1.728	1.438	1.516	1.490	1.466	1.528	7.6*
Benzo(a)pyrene *	1.165	1.050	1.165	1.121	1.117	1.124	4.2*
Indeno(1,2,3-cd)pyrene *	0.909	0.867	1.017	1.007	0.910	0.942	7.0*
Dibenz(a,h)anthracene *	0.713	0.702	0.828	0.827	0.756	0.765	7.9*
Benzo(g,h,i)perylene *	0.764	0.715	0.822	0.820	0.729	0.770	6.5*
Pyridine *	1.664	1.672	1.664	1.414	1.597	1.602	6.8*
m,p-Cresol *	1.341	1.208	1.191	1.066	0.990	1.159	11.7*
Hexachlorobenzene *	0.431	0.350	0.397	0.372	0.358	0.382	8.6*
Naphthalene *	1.192	0.960	0.957	0.784	0.724	0.923	19.8*
Phenol-d6 (SS) *	1.961	1.657	1.799	1.765	1.695	1.775	6.6*

(1) Cannot be seperated from Diphenylamine
* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV

FORM 6
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS-TESTING SERVICES DALL Contract:

Lab Code: Case No.: SAS No.: SDG No.: SV10809

Instrument ID: ITS5 Calibration Date(s): 07/30/96 07/30/96

Calibration Time(s): 1157 2048

LAB FILE ID: RRF20 =DM667 RRF50 =DM668
RRF80 =DM670 RRF120=DM671 RRF160=DM669

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Nitrobenzene-d5 (SS) *	0.521	0.436	0.481	0.446	0.437	0.464	7.9*
2-Fluorobiphenyl (SS) *	1.706	1.310	1.329	1.200	1.105	1.330	17.2*
Terphenyl-d14 (SS) *	1.375	1.071	1.325	1.259	1.146	1.235	10.2*
2-Fluorophenol (SS) *	1.656	1.405	1.587	1.550	1.501	1.540	6.1*
2,4,6-Tribromophenol (SS) *	0.204	0.159	0.204	0.194	0.189	0.190	9.8*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Inchcape Testing Services - Environmental Laboratories

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-1996 11:57
End Cal Date : 26-SEP-1996 12:03
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem3/ITS5.i/092696.b/abn5.m
Cal Date : 26-Sep-1996 18:52 wsw
Curve Type : Average

Calibration File Names:
Level 1: /chem3/ITS5.i/092696.b/DN326.d
Level 2: /chem3/ITS5.i/092696.b/DN317.d
Level 3: /chem3/ITS5.i/092696.b/DN325.d
Level 4: /chem3/ITS5.i/092696.b/DN324.d
Level 5: /chem3/ITS5.i/092696.b/DN323.d

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD
1 N-Nitrosodimethylamine	0.63882	0.64456	0.64151	0.66427	0.58649	0.63513	4.562
2 Pyridine	1.66448	1.67182	1.66456	1.41377	1.59746	1.60242	6.846
3 2-Picoline	1.78255	1.39566	1.42696	1.39101	1.36321	1.47188	11.899
N-Nitrosomethylethylamine	0.68851	0.60547	0.61982	0.60466	0.60111	0.62391	5.900
5 Methyl methanesulfonate	1.04428	1.02482	1.00914	0.99665	0.97639	1.01026	2.573
7 N-Nitrosodiethylamine	0.72472	0.64221	0.65738	0.61145	0.59585	0.64632	7.755
8 Ethyl methanesulfonate	1.34164	1.26502	1.30450	1.27546	1.23107	1.28354	3.254
9 Pentachloroethane	0.63104	0.62206	0.60982	0.59931	0.58327	0.60910	3.086
11 Phenol	1.33054	1.36090	1.19708	1.16339	1.17064	1.24451	7.541
12 Aniline	1.49746	1.43354	1.39837	1.39456	1.37873	1.42053	3.339
13 Bis(2-Chloroethyl)Ether	1.13304	1.12480	1.04678	1.02997	1.03804	1.07452	4.662
14 2-Chlorophenol	1.32531	1.30265	1.21132	1.25185	1.21267	1.26076	4.113
15 1,3-Dichlorobenzene	1.65317	1.55117	1.48335	1.48778	1.45308	1.52571	5.223
17 1,4-Dichlorobenzene	1.70218	1.60121	1.54209	1.57579	1.50516	1.58529	4.709
18 Benzyl alcohol	0.54883	0.61122	0.46198	0.46669	0.57333	0.53241	12.400
19 1,2-Dichlorobenzene	1.56755	1.47617	1.38814	1.40809	1.37843	1.44368	5.477
20 2-Methylphenol	0.92047	0.93689	0.79849	0.77995	0.82622	0.85240	8.421
21 Bis(2-Chloroisopropyl)ether	1.33321	1.48467	1.24308	1.24588	1.22440	1.30625	8.289
22 N-Nitrosopyrrolidine	0.71027	0.63715	0.69074	0.70919	0.69203	0.68788	4.334
23 Acetophenone	1.84443	1.74796	1.78268	1.73736	1.63259	1.74900	4.422
24 N-Nitrosomorpholine	1.02475	0.83134	0.86430	0.80367	0.74984	0.85478	12.151
25 o-Toluidine	2.21623	1.79789	1.76292	1.59916	1.41665	1.75857	16.901
26 N-Nitroso-di-n-propylamine	0.93494	0.92475	0.83846	0.92739	0.89840	0.90479	4.372
27 4-Methylphenol	0.92789	0.89228	0.78145	0.81174	0.85525	0.85372	6.924
28 Hexachloroethane	0.85261	0.85004	0.79429	0.77784	0.78469	0.81189	4.493
30 m,p-Cresol	1.34072	1.20768	1.19086	1.06634	0.98992	1.15911	11.701
31 Nitrobenzene	0.45983	0.48783	0.45413	0.45198	0.44264	0.45928	3.727

W. S. Wingrat Sept. 26, 1996
ANALYST Date

284
REVIEW Date

Inchcape Testing Services - Environmental Laboratories

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-1996 11:57
End Cal Date : 26-SEP-1996 12:03
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem3/ITS5.i/092696.b/abn5.m
Cal Date : 26-Sep-1996 18:52 wsw
Curve Type : Average

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD	
32 N-Nitrosopiperidine	0.21066	0.20704	0.20677	0.19724	0.19182	0.20271	3.876	
33 Isophorone	0.76589	0.78352	0.70273	0.74774	0.72936	0.74585	4.216	
34 2-Nitrophenol	0.21228	0.22513	0.21274	0.21098	0.20825	0.21388	3.053	
35 2,4-Dimethylphenol	0.44664	0.45875	0.39639	0.39151	0.41900	0.42246	7.053	
36 Bis(2-Chloroethoxy)methane	0.44638	0.43983	0.40894	0.40646	0.39058	0.41844	5.665	
37 Triethyl thiophosphate	0.16514	0.15799	0.15119	0.13757	0.12420	0.14722	11.141	
38 a,a-Dimethylphenylethylamine	1.08070	0.91149	1.02199	1.01761	0.88233	0.98282	8.438	
39 2,4-Dichlorophenol	0.35928	0.36431	0.35597	0.33298	0.31239	0.34499	6.325	
40 Benzoic acid	0.15232	0.21296	0.21264	0.26436	0.21919	0.21229	18.778	
41 1,2,4-Trichlorobenzene	0.43596	0.40720	0.39330	0.36834	0.36186	0.39333	7.653	
42 Naphthalene	1.05328	1.01370	0.97028	0.95530	0.93681	0.98587	4.785	
44 Hexachloropropene	0.22823	0.24854	0.22669	0.22437	0.22243	0.23005	4.595	
45 4-Chloroaniline	0.46287	0.44183	0.43142	0.42276	0.40589	0.43295	4.917	
46 2,6-Dichlorophenol	0.32564	0.33827	0.31879	0.29013	0.27597	0.30976	8.346	
47 Hexachlorobutadiene	0.36231	0.33937	0.32124	0.29478	0.29126	0.32179	9.340	
48 p-Phenylenediamine	0.66866	0.50138	0.72292	0.68614	0.62594	0.64101	13.337	
49 N-Nitrosodibutylamine	0.28214	0.25971	0.27173	0.25550	0.24342	0.26250	5.688	
50 4-Chloro-3-methylphenol	0.35260	0.40226	0.35161	0.38350	0.37432	0.37286	5.755	
51 Isosafrole	0.27450	0.27400	0.26165	0.23968	0.23287	0.25654	7.544	
52 Safrole	0.24740	0.27486	0.30515	0.26898	0.26657	0.27259	7.671	
53 2-Methylnaphthalene	0.68261	0.65607	0.60287	0.60649	0.59155	0.62792	6.266	
54 1,2,4,5-Tetrachlorobenzene	0.33935	0.33244	0.31520	0.28998	0.28301	0.31199	8.016	
55 Hexachlorocyclopentadiene	0.48396	0.57433	0.55870	0.59051	0.56320	0.55414	7.418	
56 2,4,6-Trichlorophenol	0.46718	0.47615	0.44320	0.44599	0.45441	0.45738	3.069	
57 2,4,5-Trichlorophenol	0.44748	0.50289	0.44660	0.50346	0.50015	0.48012	6.294	
59 2-Chloronaphthalene	1.31760	1.24246	1.17077	1.20265	1.15504	1.21770	5.345	
60 1-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
61 1,4-Naphthoquinone	0.40553	0.45979	0.46076	0.43424	0.42571	0.43721	5.376	
62 2-Nitroaniline	0.41992	0.49784	0.51094	0.49831	0.52839	0.49108	8.487	
63 m-Dinitrobenzene	0.16876	0.22777	0.24114	0.24792	0.24088	0.22530	14.396	
64 Dimethyl phthalate	1.62979	1.60983	1.52104	1.59143	1.51716	1.57385	3.292	
65 Acenaphthylene	1.85131	1.80535	1.69511	1.74975	1.73358	1.76702	3.484	
66 2,6-Dinitrotoluene	0.33259	0.36882	0.34750	0.37498	0.36381	0.35754	4.832	
68 Acenaphthene	1.25195	1.17373	1.11689	1.15382	1.12683	1.16465	4.610	

Inchcape Testing Services - Environmental Laboratories

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-1996 11:57
End Cal Date : 26-SEP-1996 12:03
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem3/ITS5.i/092696.b/abn5.m
Cal Date : 26-Sep-1996 18:52 wsw
Curve Type : Average

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD	
69 3-Nitroaniline	0.31600	0.35291	0.36729	0.34835	0.35938	0.34879	5.638	
70 2,4-Dinitrophenol	0.12658	0.20433	0.20505	0.27680	0.25122	0.21280	26.932	
71 Dibenzofuran	1.78401	1.66112	1.53384	1.54309	1.50034	1.60448	7.311	
72 4-Nitrophenol	0.29211	0.36495	0.34240	0.42227	0.42352	0.36905	15.114	
73 Pentachlorobenzene	0.56714	0.53330	0.51652	0.48842	0.48560	0.51820	6.527	
74 2,4-Dinitrotoluene	0.46877	0.48611	0.46591	0.51114	0.48479	0.48334	3.728	
75 2-Naphthylamine	0.93979	0.87966	0.83324	0.72555	0.67594	0.81084	13.417	
76 1-Naphthylamine	1.12744	1.10943	1.00724	0.88328	0.82004	0.98948	13.720	
77 2,3,4,6-Tetrachlorophenol	0.29351	0.33538	0.33742	0.32748	0.32060	0.32288	5.489	
78 Diethyl phthalate	1.72345	1.72447	1.62529	1.67527	1.61005	1.67171	3.198	
79 Fluorene	1.34181	1.31390	1.22655	1.26406	1.20434	1.27013	4.543	
80 4-Chlorophenylphenyl ether	0.72784	0.70450	0.65906	0.66315	0.63978	0.67887	5.323	
81 5-Nitro-o-toluidine	0.25735	0.31377	0.29920	0.26857	0.27767	0.28331	8.093	
82 Thionazin	0.39638	0.39318	0.36789	0.34552	0.32758	0.36611	8.149	
83 4-Nitroaniline	0.26404	0.34137	0.37626	0.34237	0.36613	0.33804	13.026	
84 4,6-Dinitro-2-methylphenol	0.12360	0.15597	0.15752	0.16878	0.16229	0.15363	11.401	
85 N-Nitrosodiphenylamine	0.46303	0.45978	0.42439	0.39250	0.40045	0.42803	7.633	
86 N-Nitroso- & Diphenylamine	1.85068	1.75443	1.65897	1.48124	1.40476	1.63002	11.390	
87 1,2-Diphenylhydrazine	0.97592	0.94117	0.88696	0.88991	0.84836	0.90846	5.514	
89 Sulfotep	0.28624	0.28232	0.26774	0.25219	0.23685	0.26507	7.812	
90 1,3,5-Trinitrobenzene	0.08005	0.17647	0.21719	0.23960	0.22740	0.18814	34.501	<-
91 Diallate	0.30288	0.32122	0.32843	0.31042	0.31954	0.31650	3.145	
92 Phorate	0.87631	0.89505	0.88254	0.85479	0.82449	0.86664	3.197	
93 4-Bromophenylphenyl ether	0.23673	0.23113	0.21799	0.19333	0.19955	0.21575	8.815	
94 Phenacetin	0.50625	0.63898	0.63709	0.59023	0.56544	0.58760	9.400	
95 Hexachlorobenzene	0.64371	0.62165	0.60362	0.62643	0.57526	0.61413	4.234	
96 Dimethoate	0.44399	0.45163	0.38876	0.32420	0.29346	0.38041	18.543	
97 4-Aminobiphenyl	1.06225	1.11513	1.07958	0.96192	0.89086	1.02195	9.077	
98 Pentachlorophenol	0.14825	0.17945	0.17070	0.18185	0.18972	0.17399	9.142	
99 Pentachloronitrobenzene	0.11225	0.12937	0.13230	0.12721	0.12540	0.12531	6.175	
100 Pronamide	0.24718	0.26670	0.27477	0.26419	0.25980	0.26253	3.871	
102 Phenanthrene	1.05650	1.00108	0.95067	0.84031	0.82252	0.93422	10.836	
103 Anthracene	1.02490	0.96123	0.92408	0.82648	0.81820	0.91098	9.729	
104 Disolfonton	0.53981	0.54208	0.52669	0.52884	0.50322	0.52813	2.924	

Inchcape Testing Services - Environmental Laboratories

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-1996 11:57
End Cal Date : 26-SEP-1996 12:03
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem3/ITS5.i/092696.b/abn5.m
Cal Date : 26-Sep-1996 18:52 wsw
Curve Type : Average

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD	
105 Dinoseb	0.08093	0.15370	0.18295	0.20133	0.20989	0.16576	31.418	<-
106 Carbazole	1.15214	1.08494	1.01628	0.96267	0.91366	1.02594	9.261	
107 Methyl parathion	0.21206	0.24808	0.21512	0.20343	0.17813	0.21137	11.899	
108 Di-n-butylphthalate	1.47578	1.41537	1.37876	1.29119	1.20743	1.35371	7.803	
109 4-Nitroquinoline-1-oxide	0.02181	0.05450	0.06516	0.07247	0.06998	0.05678	36.506	<-
110 Parathion	0.18904	0.22550	0.21874	0.21375	0.20318	0.21004	6.803	
111 Methapyrilene	0.48332	0.43256	0.38839	0.31665	0.26980	0.37815	22.767	
112 Isodrin	0.15104	0.15035	0.15094	0.14414	0.14346	0.14798	2.594	
113 Fluoranthene	1.20778	0.99946	1.06829	0.98351	0.89202	1.03021	11.403	
114 Benzidine	0.69690	0.77161	0.85562	0.82485	0.86612	0.80302	8.689	
[illegible] Pyrene	1.43414	1.79393	1.45527	1.43543	1.43946	1.51165	10.454	
117 Aromite	0.03892	0.05193	0.05583	0.05676	0.05378	0.05144	14.086	<-
118 p-(Dimethylamino)azobenzene	0.58131	0.59808	0.56741	0.56849	0.56888	0.57683	2.282	
119 Chlorobenzilate	0.47823	0.47258	0.48869	0.45034	0.46506	0.47098	3.059	
120 Kepone	0.11534	0.13138	0.14063	0.13158	0.13948	0.13168	7.671	
121 3,3'-Dimethylbenzidine	0.31196	0.34257	0.30325	0.23600	0.20137	0.27903	20.890	
122 Butyl benzyl phthalate	0.77723	0.90891	0.80618	0.84709	0.77948	0.82378	6.712	
123 2-Actylaminofluorene	0.32094	0.43017	0.45045	0.39196	0.39509	0.39772	12.426	
124 Benzo(a)anthracene	1.18804	1.20570	1.13643	1.10902	1.04303	1.13644	5.726	
125 3,3'-Dichlorobenzidine	0.45185	0.49778	0.52521	0.52243	0.53725	0.50691	6.698	
127 Chrysene	1.28449	1.29568	1.20777	1.19703	1.10584	1.21816	6.303	
128 Bis(2-ethylhexyl)phthalate	1.04060	1.17082	1.04239	1.06485	0.96292	1.05632	7.076	
129 Di-n-octylphthalate	1.64203	1.92616	1.72027	1.51181	1.75979	1.71201	8.915	
130 Benzo(b)fluoranthene	1.17976	1.23368	1.20019	1.14349	1.14697	1.18082	3.200	
131 7,12-Dimethylbenz(a)anthracen	0.43281	0.40694	0.47043	0.43653	0.46348	0.44204	5.782	
132 Benzo(k)fluoranthene	1.36049	1.42609	1.25725	1.03145	1.29413	1.27388	11.783	
133 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
134 Benzo(a)pyrene	1.05006	1.08387	1.02385	0.93972	0.98321	1.01614	5.550	
136 3-Methylcholanthrene	0.44601	0.46935	0.47706	0.46960	0.49539	0.47148	3.764	
137 Dibenz[a,j]acridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
138 Indeno(1,2,3-cd)pyrene	1.28772	1.23743	1.15771	1.17004	1.01885	1.17435	8.653	
139 Dibenz(a,h)anthracene	1.06803	1.00204	0.95667	0.93603	0.84212	0.96098	8.693	
140 Benzo(g,h,i)perylene	1.06123	1.00823	0.95049	1.00930	0.81797	0.96944	9.625	

Inchcape Testing Services - Environmental Laboratories

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-1996 11:57
End Cal Date : 26-SEP-1996 12:03
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem3/ITS5.i/092696.b/abn5.m
Cal Date : 26-Sep-1996 18:52 wsw
Curve Type : Average

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD
$ 6 2-Fluorophenol (SS)	1.27520	1.25856	1.22611	1.25163	1.21492	1.24528	1.968
$ 10 Phenol-d6 (SS)	1.27922	1.28861	1.16141	1.23015	1.19691	1.23126	4.383
$ 29 Nitrobenzene-d5 (SS)	0.47003	0.51735	0.48146	0.48066	0.47457	0.48482	3.874
$ 58 2-Fluorobiphenyl (SS)	1.52062	1.46203	1.39661	1.39930	1.36811	1.42933	4.302
$ 88 2,4,6-Tribromophenol (SS)	0.31442	0.32975	0.31541	0.32933	0.33920	0.32562	3.239
$ 116 Terphenyl-d14 (SS)	1.05041	1.25146	1.05283	1.00947	0.99571	1.07198	9.646

Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/092696.b/DN317.d
Lab Smp Id: SSTD050 AB396-72-2 Client Smp ID: SSTD050 AB396-72-2
Inj Date : 26-SEP-1996 12:03
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Calibration Standard (exp 8/97)
Misc Info : 50ug/mL 08-29-96 AB396-72-2 BTL# 2
Comment :
Method : /chem3/ITS5.i/092696.b/abn5.m
Meth Date : 26-Sep-1996 18:52 wsw Quant Type: ISTD
Cal Date : 26-SEP-1996 12:03 Cal File: DN317.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: STD050.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 N-Nitrosodimethylamine	74.00	2.742	2.742	(0.433)	11155	50.0	50.7
$	6 2-Fluorophenol (SS)	112.00	4.286	4.286	(0.677)	21781	50.0	50.5
$	10 Phenol-d6 (SS)	99.00	5.736	5.736	(0.906)	22301	50.0	52.3
	Phenol	94.00	5.760	5.760	(0.910)	23552	50.0	54.7(M)
	13 Bis(2-Chloroethyl)Ether	93.00	5.911	5.911	(0.934)	19466	50.0	52.3
	14 2-Chlorophenol	128.00	5.969	5.969	(0.943)	22544	50.0	51.7
	15 1,3-Dichlorobenzene	146.00	6.225	6.225	(0.983)	26845	50.0	50.8
*	16 1,4-Dichlorobenzene-d4	152.00	6.329	6.329	(1.000)	13845	40.0	
	17 1,4-Dichlorobenzene	146.00	6.353	6.353	(1.004)	27711	50.0	50.5
	18 Benzyl alcohol	108.00	6.596	6.596	(1.042)	10578	50.0	57.4
	19 1,2-Dichlorobenzene	146.00	6.620	6.620	(1.046)	25547	50.0	51.1
	20 2-Methylphenol	108.00	6.806	6.806	(1.075)	16214	50.0	55.0
	21 Bis(2-Chloroisopropyl)ether	45.00	6.852	6.852	(1.083)	25694	50.0	56.8(M)
	26 N-Nitroso-di-n-propylamine	70.00	7.096	7.096	(1.121)	16004	50.0	51.1
	27 4-Methylphenol	108.00	7.096	7.096	(1.121)	15442	50.0	52.2
	28 Hexachloroethane	117.00	7.224	7.224	(1.141)	14711	50.0	52.3
$	29 Nitrobenzene-d5 (SS)	82.00	7.341	7.341	(0.844)	28001	50.0	53.4
	31 Nitrobenzene	77.00	7.375	7.375	(0.848)	26403	50.0	53.1
	33 Isophorone	82.00	7.840	7.840	(0.901)	42407	50.0	52.5
	34 2-Nitrophenol	139.00	7.968	7.968	(0.916)	12185	50.0	52.6
	35 2,4-Dimethylphenol	107.00	8.096	8.096	(0.930)	24829	50.0	54.3
	36 Bis(2-Chloroethoxy)methane	93.00	8.293	8.293	(0.953)	23805	50.0	52.6
	39 2,4-Dichlorophenol	162.00	8.456	8.456	(0.972)	19718	50.0	52.8
	40 Benzoic acid	122.00	8.386	8.386	(0.964)	11526	50.0	50.2
	41 1,2,4-Trichlorobenzene	180.00	8.596	8.596	(0.988)	22039	50.0	51.8
*	42 Naphthalene-d8	136.00	8.700	8.700	(1.000)	43299	40.0	
	43 Naphthalene	128.00	8.735	8.735	(1.004)	54865	50.0	51.4
	47 Hexachlorobutadiene	225.00	9.003	9.003	(1.035)	18368	50.0	52.7
	50 4-Chloro-3-methylphenol	107.00	9.885	9.885	(1.136)	21772	50.0	53.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
53 2-Methylnaphthalene	142.00	10.129	10.129	(1.164)	35509	50.0	52.2
55 Hexachlorocyclopentadiene	237.00	10.454	10.454	(0.853)	17525	50.0	51.8
56 2,4,6-Trichlorophenol	196.00	10.722	10.722	(0.875)	14529	50.0	52.0
57 2,4,5-Trichlorophenol	196.00	10.791	10.791	(0.881)	15345	50.0	52.4
$ 58 2-Fluorobiphenyl (SS)	172.00	10.908	10.908	(0.890)	44612	50.0	51.1
59 2-Chloronaphthalene	162.00	11.117	11.117	(0.907)	37912	50.0	51.0
64 Dimethyl phthalate	163.00	11.779	11.779	(0.961)	49122	50.0	51.1
65 Acenaphthylene	152.00	11.954	11.954	(0.975)	55088	50.0	51.1
66 2,6-Dinitrotoluene	165.00	11.884	11.884	(0.970)	11254	50.0	51.6
* 67 Acenaphthene-d10	164.00	12.256	12.256	(1.000)	24411	40.0	
68 Acenaphthene	153.00	12.337	12.337	(1.007)	35815	50.0	50.4
70 2,4-Dinitrophenol	184.00	12.453	12.453	(1.016)	6235	50.0	48.0
71 Dibenzofuran	168.00	12.732	12.732	(1.039)	50687	50.0	51.8
72 4-Nitrophenol	109.00	12.662	12.662	(1.033)	11136	50.0	49.4
74 2,4-Dinitrotoluene	165.00	12.756	12.756	(1.041)	14833	50.0	50.3(M)
78 Diethyl phthalate	149.00	13.441	13.441	(1.097)	52620	50.0	51.6
79 Fluorene	166.00	13.615	13.615	(1.111)	40092	50.0	51.7
80 4-Chlorophenylphenyl ether	204.00	13.673	13.673	(1.116)	21497	50.0	51.9
84 4,6-Dinitro-2-methylphenol	198.00	13.825	13.825	(0.848)	8565	50.0	50.8
85 N-Nitrosodiphenylamine	169.00	14.034	14.034	(0.861)	25248	50.0	53.7
$ 88 2,4,6-Tribromophenol (SS)	330.00	14.313	14.313	(1.168)	10062	50.0	50.6
93 4-Bromophenylphenyl ether	248.00	15.114	15.114	(0.927)	12692	50.0	53.6
95 Hexachlorobenzene	284.00	15.195	15.195	(1.240)	18969	50.0	50.6
98 Pentachlorophenol	266.00	15.788	15.788	(0.969)	9854	50.0	51.6
* Phenanthrene-d10	188.00	16.299	16.299	(1.000)	43931	40.0	
102 Phenanthrene	178.00	16.357	16.357	(1.004)	54973	50.0	53.6
103 Anthracene	178.00	16.497	16.497	(1.012)	52785	50.0	52.8
108 Di-n-butylphthalate	149.00	18.086	18.086	(1.110)	77723	50.0	52.3
113 Fluoranthene	202.00	19.398	19.398	(1.190)	54884	50.0	48.5
115 Pyrene	202.00	19.920	19.920	(0.879)	54569	50.0	59.3
$ 116 Terphenyl-d14 (SS)	244.00	20.397	20.397	(0.900)	38068	50.0	58.4
122 Butyl benzyl phthalate	149.00	21.569	21.569	(0.952)	27648	50.0	55.2
124 Benzo(a)anthracene	228.00	22.637	22.637	(0.999)	36676	50.0	53.0
* 126 Chrysene-d12	240.00	22.660	22.660	(1.000)	24335	40.0	
127 Chrysene	228.00	22.707	22.707	(1.002)	39413	50.0	53.2
128 Bis(2-ethylhexyl)phthalate	149.00	22.858	22.858	(1.009)	35615	50.0	55.4
129 Di-n-octylphthalate	149.00	24.157	24.157	(0.946)	49784	50.0	56.2
130 Benzo(b)fluoranthene	252.00	24.796	24.796	(0.971)	31886	50.0	52.2
132 Benzo(k)fluoranthene	252.00	24.854	24.854	(0.974)	36859	50.0	56.0
134 Benzo(a)pyrene	252.00	25.423	25.423	(0.996)	28014	50.0	53.3
* 135 Perylene-d12	264.00	25.528	25.528	(1.000)	20677	40.0	
138 Indeno(1,2,3-cd)pyrene	276.00	27.573	27.573	(1.080)	31983	50.0	52.7
139 Dibenz(a,h)anthracene	278.00	27.619	27.619	(1.082)	25899	50.0	52.1
140 Benzo(g,h,i)perylene	276.00	28.131	28.131	(1.102)	26059	50.0	52.0

QC Flag Legend

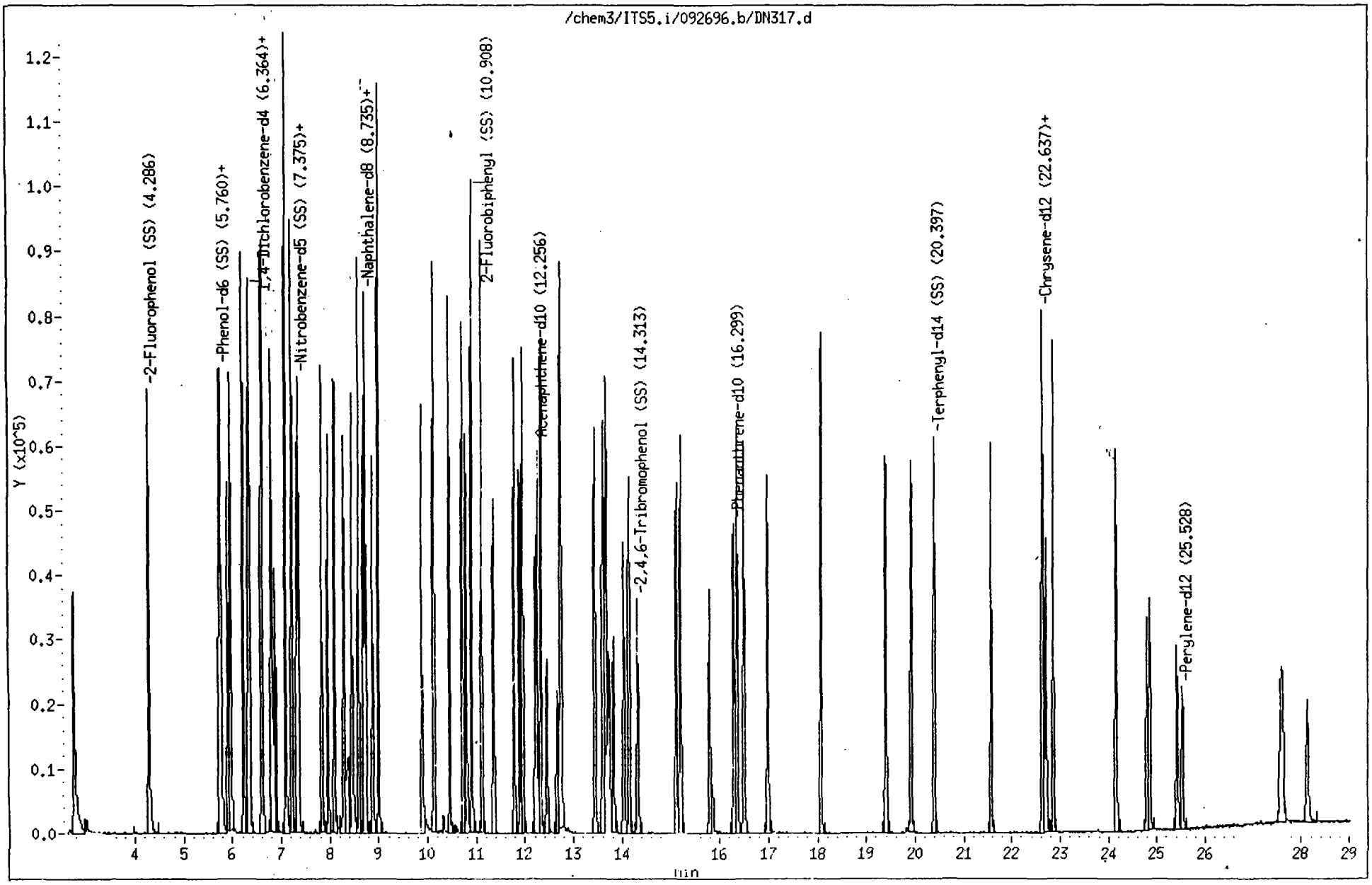
M - Compound response manually integrated.

Data File: /chem3/ITS5.i/092696.b/DN317.d
Date : 26-SEP-1996 12:03
Client ID: SSTD050 AB396-72-2
Sample Info: ITS5 Calibration Standard (exp 8/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5



Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/092696.b/DN318.d
Lab Smp Id: ANLN050 AB396-56-2 Client Smp ID: ANLN050 AB396-56-2
Inj Date : 26-SEP-1996 12:40
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Aniline Calibration Std (exp 5/97)
Misc Info : 50ug/mL 03-12-96 AB396-56-2 BTL# 3
Comment :
Method : /chem3/ITS5.i/092696.b/abn5.m
Meth Date : 26-Sep-1996 18:52 wsw Quant Type: ISTD
Cal Date : 26-SEP-1996 12:40 Cal File: DN318.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: ANILINE_50.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
12 Aniline	93.00	5.781	5.764	(0.914)	31305	50.0	50.4
45 4-Chloroaniline	127.00	8.867	8.862	(1.020)	29768	50.0	51.2
42 2-Nitroaniline	65.00	11.362	11.345	(0.927)	19412	50.0	47.8
3-Nitroaniline	138.00	12.209	12.192	(0.996)	13761	50.0	50.7
83 4-Nitroaniline	138.00	13.718	13.689	(1.119)	13311	50.0	50.4
* 16 1,4-Dichlorobenzene-d4	152.00	6.326	6.329	(1.000)	17470	40.0	
* 42 Naphthalene-d8	136.00	8.693	8.700	(1.000)	53900	40.0	
* 67 Acenaphthene-d10	164.00	12.256	12.256	(1.000)	31194	40.0	
* 101 Phenanthrene-d10	188.00	16.283	16.299	(1.000)	52176	40.0	
* 126 Chrysene-d12	240.00	22.654	22.660	(1.000)	49427	40.0	
* 135 Perylene-d12	264.00	25.532	25.528	(1.000)	51210	40.0	
114 Benzidine	184.00	19.811	19.796	(0.874)	47673	50.0	51.1
125 3,3'-Dichlorobenzidine	252.00	22.630	22.616	(0.999)	30755	50.0	59.7
106 Carbazole	167.00	16.991	16.965	(1.044)	70760	50.0	52.8
87 1,2-Diphenylhydrazine	77.00	14.136	14.119	(0.868)	61383	50.0	51.2

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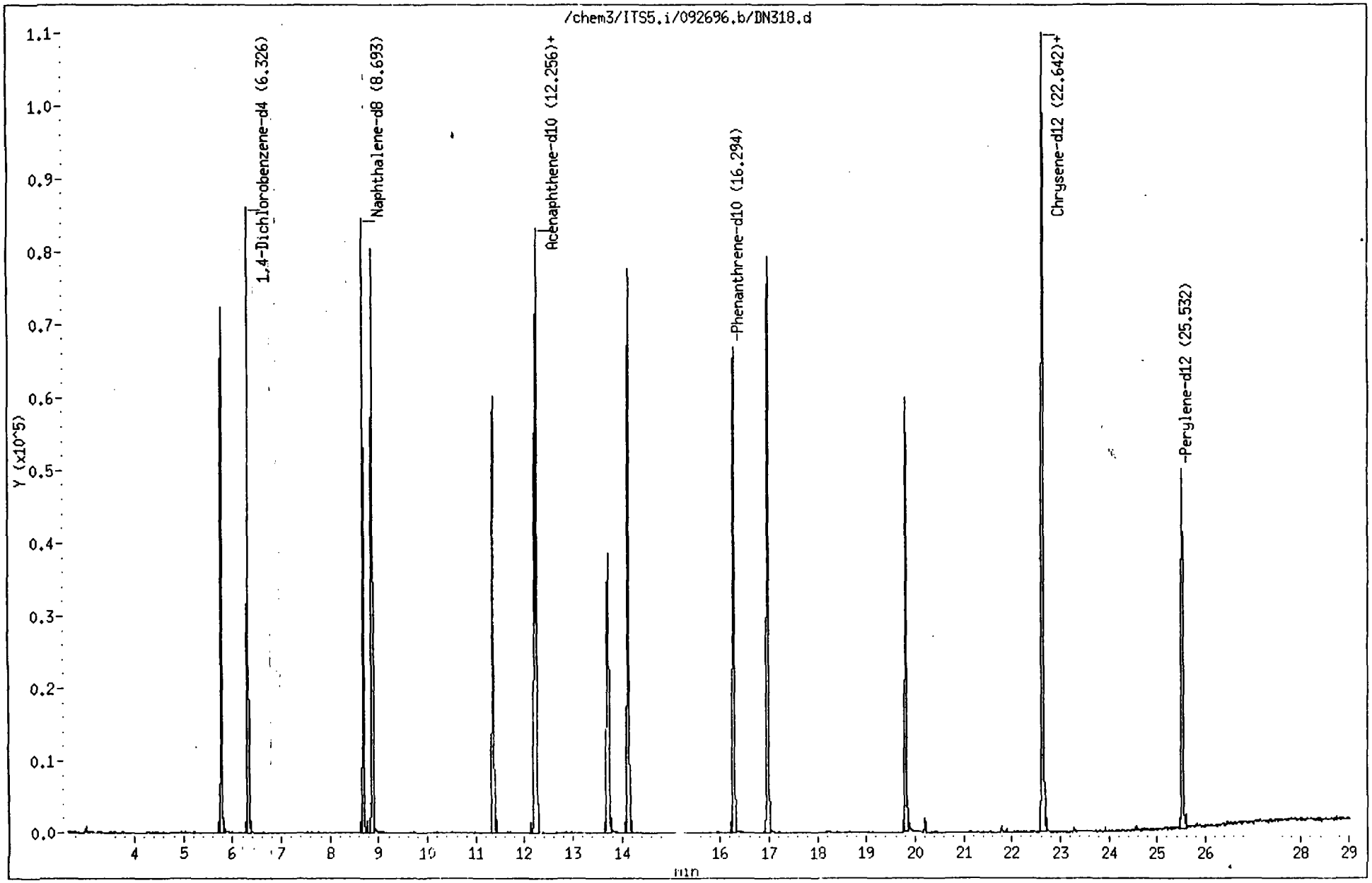
Data File: /chem3/ITS5.i/092696.b/DN318.d
Date : 26-SEP-1996 12:40
Client ID: ANLN050 AB396-56-2
Sample Info: ITS5 Aniline Calibration Std (exp 5/97)

Instrument: ITS5.i

Operator: WSW

Column phase: DB-5

Column diameter: 0.25



Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/092696.b/DN319.d
Lab Smp Id: SSTD160 AB396-72-2 Client Smp ID: SSTD160 AB396-72-2
Inj Date : 26-SEP-1996 13:17
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Calibration Standard (exp 8/97)
Misc Info : 160ug/mL 08-29-96 AB396-72-2 BTL# 4
Comment :
Method : /chem3/ITS5.i/092696.b/abn5.m
Meth Date : 26-Sep-1996 18:52 wsw Quant Type: ISTD
Cal Date : 26-SEP-1996 12:40 Cal File: DN318.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: STD050.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
1 N-Nitrosodimethylamine	74.00	2.754	2.742	(0.435)	37648	160	154
$ 6 2-Fluorophenol (SS)	112.00	4.298	4.286	(0.679)	77988	160	160(A)
$ 10 Phenol-d6 (SS)	99.00	5.772	5.736	(0.912)	76832	160	154
Phenol	94.00	5.796	5.760	(0.915)	75146	160	151
13 Bis(2-Chloroethyl)Ether	93.00	5.935	5.911	(0.937)	66634	160	156
14 2-Chlorophenol	128.00	5.982	5.969	(0.945)	77844	160	153
15 1,3-Dichlorobenzene	146.00	6.238	6.225	(0.985)	93276	160	154
* 16 1,4-Dichlorobenzene-d4	152.00	6.331	6.329	(1.000)	16048	40.0	
17 1,4-Dichlorobenzene	146.00	6.366	6.353	(1.006)	96619	160	154
18 Benzyl alcohol	108.00	6.633	6.596	(1.048)	36803	160	151
19 1,2-Dichlorobenzene	146.00	6.622	6.620	(1.046)	88484	160	156
20 2-Methylphenol	108.00	6.831	6.806	(1.079)	53037	160	151
21 Bis(2-Chloroisopropyl)ether	45.00	6.866	6.852	(1.085)	78597	160	148(M)
26 N-Nitroso-di-n-propylamine	70.00	7.180	7.096	(1.134)	57670	160	154(M)
27 4-Methylphenol	108.00	7.134	7.096	(1.127)	54900	160	154
28 Hexachloroethane	117.00	7.227	7.224	(1.141)	50371	160	159
$ 29 Nitrobenzene-d5 (SS)	82.00	7.367	7.341	(0.846)	99053	160	155
31 Nitrobenzene	77.00	7.402	7.375	(0.850)	92388	160	155
33 Isophorone	82.00	7.878	7.840	(0.905)	152232	160	153
34 2-Nitrophenol	139.00	7.983	7.968	(0.917)	43466	160	152
35 2,4-Dimethylphenol	107.00	8.134	8.096	(0.934)	87454	160	150
36 Bis(2-Chloroethoxy)methane	93.00	8.320	8.293	(0.956)	81521	160	150
39 2,4-Dichlorophenol	162.00	8.472	8.456	(0.973)	65203	160	144
40 Benzoic acid	122.00	8.553	8.386	(0.983)	45750	160	169(AM)
41 1,2,4-Trichlorobenzene	180.00	8.600	8.596	(0.988)	75528	160	146
* 42 Naphthalene-d8	136.00	8.705	8.700	(1.000)	52180	40.0	
43 Naphthalene	128.00	8.752	8.735	(1.005)	195530	160	152
47 Hexachlorobutadiene	225.00	9.008	9.003	(1.035)	60791	160	143
50 4-Chloro-3-methylphenol	107.00	9.902	9.885	(1.137)	78128	160	149

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	53 2-Methylnaphthalene	142.00	10.146	10.129	(1.166)	123468	160	150
	55 Hexachlorocyclopentadiene	237.00	10.461	10.454	(0.853)	62407	160	168(A)
	56 2,4,6-Trichlorophenol	196.00	10.740	10.722	(0.876)	50352	160	153
	57 2,4,5-Trichlorophenol	196.00	10.810	10.791	(0.881)	55421	160	155
$	58 2-Fluorobiphenyl (SS)	172.00	10.927	10.908	(0.891)	151598	160	154
	59 2-Chloronaphthalene	162.00	11.136	11.117	(0.908)	127988	160	151
	64 Dimethyl phthalate	163.00	11.810	11.779	(0.963)	168114	160	150
	65 Acenaphthylene	152.00	11.973	11.954	(0.976)	192095	160	155
	66 2,6-Dinitrotoluene	165.00	11.915	11.884	(0.972)	40313	160	154
*	67 Acenaphthene-d10	164.00	12.264	12.256	(1.000)	27702	40.0	
	68 Acenaphthene	153.00	12.357	12.337	(1.008)	124862	160	154
	70 2,4-Dinitrophenol	184.00	12.485	12.453	(1.018)	27837	160	179(A)
	71 Dibenzofuran	168.00	12.753	12.732	(1.040)	166250	160	147
	72 4-Nitrophenol	109.00	12.695	12.662	(1.035)	46929	160	180(AQM)
	74 2,4-Dinitrotoluene	165.00	12.788	12.756	(1.043)	53719	160	150(QM)
	78 Diethyl phthalate	149.00	13.485	13.441	(1.100)	178406	160	149
	79 Fluorene	166.00	13.637	13.615	(1.112)	133451	160	148
	80 4-Chlorophenylphenyl ether	204.00	13.695	13.673	(1.117)	70893	160	148
	84 4,6-Dinitro-2-methylphenol	198.00	13.894	13.825	(0.852)	34593	160	164(A)
	85 N-Nitrosodiphenylamine	169.00	14.080	14.034	(0.864)	85357	160	146
$	88 2,4,6-Tribromophenol (SS)	330.00	14.348	14.313	(1.170)	37586	160	156
	93 4-Bromophenylphenyl ether	248.00	15.126	15.114	(0.928)	42535	160	147
	95 Hexachlorobenzene	284.00	15.219	15.195	(1.241)	63743	160	148
	99 Pentachlorophenol	266.00	15.812	15.788	(0.970)	40439	160	160(A)
*	Phenanthrene-d10	188.00	16.301	16.299	(1.000)	53288	40.0	
	102 Phenanthrene	178.00	16.382	16.357	(1.005)	175322	160	140
	103 Anthracene	178.00	16.522	16.497	(1.014)	174402	160	143
	108 Di-n-butylphthalate	149.00	18.101	18.086	(1.110)	257367	160	144
	113 Fluoranthene	202.00	19.424	19.398	(1.192)	190136	160	148
	115 Pyrene	202.00	19.947	19.920	(0.880)	193786	160	120
$	116 Terphenyl-d14 (SS)	244.00	20.412	20.397	(0.900)	134046	160	119
	122 Butyl benzyl phthalate	149.00	21.585	21.569	(0.952)	104937	160	130
	124 Benzo(a)anthracene	228.00	22.653	22.637	(0.999)	140417	160	145
*	126 Chrysene-d12	240.00	22.677	22.660	(1.000)	33656	40.0	
	127 Chrysene	228.00	22.736	22.707	(1.003)	148873	160	147
	128 Bis(2-ethylhexyl)phthalate	149.00	22.864	22.858	(1.008)	129632	160	127
	129 Di-n-octylphthalate	149.00	24.164	24.157	(0.946)	206649	160	113
	130 Benzo(b)fluoranthene	252.00	24.815	24.796	(0.972)	134686	160	143
	132 Benzo(k)fluoranthene	252.00	24.873	24.854	(0.974)	151967	160	146
	134 Benzo(a)pyrene	252.00	25.443	25.423	(0.996)	115456	160	151
*	135 Perylene-d12	264.00	25.536	25.528	(1.000)	29357	40.0	
	138 Indeno(1,2,3-cd)pyrene	276.00	27.593	27.573	(1.081)	119642	160	155
	139 Dibenz(a,h)anthracene	278.00	27.640	27.619	(1.082)	98889	160	158
	140 Benzo(g,h,i)perylene	276.00	28.164	28.131	(1.103)	96052	160	155

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Q Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

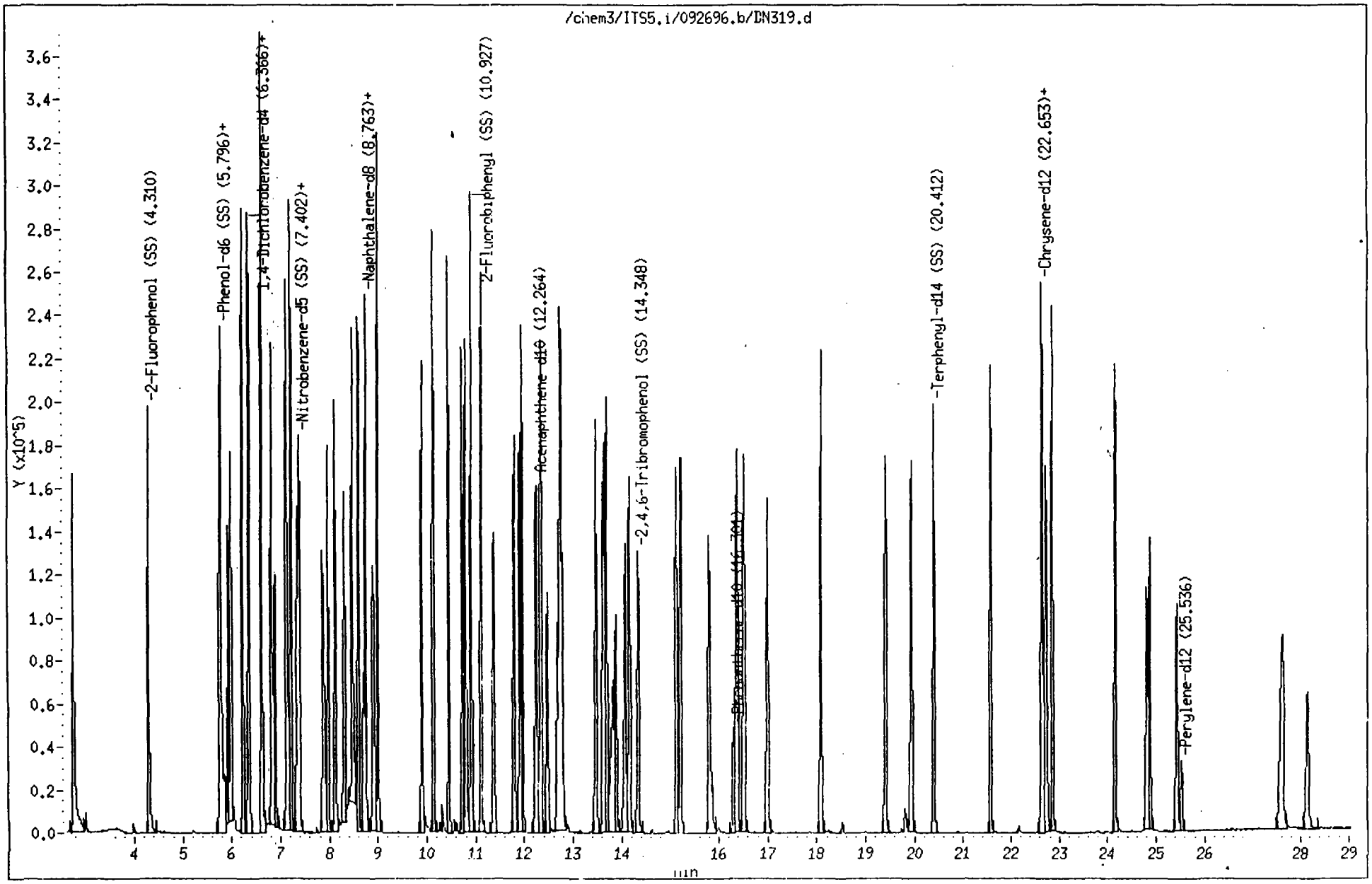
297

Data File: /chem3/ITS5.i/092696.b/DN319.d
Date : 26-SEP-1996 13:17
Client ID: SSTD160 AB396-72-2
Sample Info: ITS5 Calibration Standard (exp 8/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5



Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/092696.b/DN320.d
Lab Smp Id: SSTD120 AB396-72-2 Client Smp ID: SSTD120 AB396-72-2
Inj Date : 26-SEP-1996 13:53
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Calibration Standard (exp 8/97)
Misc Info : 120ug/mL 08-29-96 AB396-72-2 BTL# 5
Comment :
Method : /chem3/ITS5.i/092696.b/abn5.m
Meth Date : 26-Sep-1996 18:52 wsw Quant Type: ISTD
Cal Date : 26-SEP-1996 12:40 Cal File: DN318.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: STD050.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 N-Nitrosodimethylamine	74.00	2.766	2.742	(0.437)	45643	120	128
$	6 2-Fluorophenol (SS)	112.00	4.310	4.286	(0.681)	86002	120	122
$	10 Phenol-d6 (SS)	99.00	5.773	5.736	(0.912)	84526	120	118
	Phenol	94.00	5.796	5.760	(0.915)	79939	120	113
	13 Bis(2-Chloroethyl)Ether	93.00	5.936	5.911	(0.937)	70771	120	116
	14 2-Chlorophenol	128.00	5.983	5.969	(0.945)	86017	120	118
	15 1,3-Dichlorobenzene	146.00	6.239	6.225	(0.985)	102228	120	117
*	16 1,4-Dichlorobenzene-d4	152.00	6.332	6.329	(1.000)	22904	40.0	
	17 1,4-Dichlorobenzene	146.00	6.367	6.353	(1.006)	108276	120	120
	18 Benzyl alcohol	108.00	6.635	6.596	(1.048)	32067	120	96.0
	19 1,2-Dichlorobenzene	146.00	6.635	6.620	(1.048)	96753	120	118
	20 2-Methylphenol	108.00	6.833	6.806	(1.079)	53592	120	108
	21 Bis(2-Chloroisopropyl)ether	45.00	6.868	6.852	(1.085)	85607	120	112(M)
	26 N-Nitroso-di-n-propylamine	70.00	7.182	7.096	(1.134)	63723	120	119(M)
	27 4-Methylphenol	108.00	7.135	7.096	(1.127)	55776	120	110
	28 Hexachloroethane	117.00	7.229	7.224	(1.142)	53447	120	116
$	29 Nitrobenzene-d5 (SS)	82.00	7.368	7.341	(0.846)	107564	120	117
	31 Nitrobenzene	77.00	7.403	7.375	(0.850)	101146	120	117
	33 Isophorone	82.00	7.880	7.840	(0.905)	167331	120	117
	34 2-Nitrophenol	139.00	7.985	7.968	(0.917)	47214	120	116
	35 2,4-Dimethylphenol	107.00	8.136	8.096	(0.934)	87612	120	108
	36 Bis(2-Chloroethoxy)methane	93.00	8.323	8.293	(0.956)	90959	120	117
	39 2,4-Dichlorophenol	162.00	8.486	8.456	(0.975)	74516	120	115
	40 Benzoic acid	122.00	8.556	8.386	(0.983)	59160	120	146(M)
	41 1,2,4-Trichlorobenzene	180.00	8.603	8.596	(0.988)	82428	120	112
*	42 Naphthalene-d8	136.00	8.707	8.700	(1.000)	74594	40.0	
	43 Naphthalene	128.00	8.754	8.735	(1.005)	213778	120	115
	47 Hexachlorobutadiene	225.00	9.011	9.003	(1.035)	65966	120	109
	50 4-Chloro-3-methylphenol	107.00	9.905	9.885	(1.137)	85821	120	115

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
53	2-Methylnaphthalene	142.00	10.149	10.129	(1.166)	135722	120	115
55	Hexachlorocyclopentadiene	237.00	10.464	10.454	(0.853)	70247	120	130
56	2,4,6-Trichlorophenol	196.00	10.731	10.722	(0.875)	53054	120	114
57	2,4,5-Trichlorophenol	196.00	10.813	10.791	(0.881)	59891	120	117
$ 58	2-Fluorobiphenyl (SS)	172.00	10.930	10.908	(0.891)	166459	120	118
59	2-Chloronaphthalene	162.00	11.140	11.117	(0.908)	143066	120	118
64	Dimethyl phthalate	163.00	11.814	11.779	(0.963)	189315	120	118
65	Acenaphthylene	152.00	11.977	11.954	(0.976)	208148	120	117
66	2,6-Dinitrotoluene	165.00	11.919	11.884	(0.972)	44607	120	119
* 67	Acenaphthene-d10	164.00	12.268	12.256	(1.000)	39653	40.0	
68	Acenaphthene	153.00	12.349	12.337	(1.007)	137257	120	118
70	2,4-Dinitrophenol	184.00	12.489	12.453	(1.018)	32928	120	146
71	Dibenzofuran	168.00	12.757	12.732	(1.040)	183565	120	114
72	4-Nitrophenol	109.00	12.699	12.662	(1.035)	50233	120	134(QM)
74	2,4-Dinitrotoluene	165.00	12.792	12.756	(1.043)	60805	120	120(M)
78	Diethyl phthalate	149.00	13.490	13.441	(1.100)	199289	120	116
79	Fluorene	166.00	13.641	13.615	(1.112)	150371	120	117
80	4-Chlorophenylphenyl ether	204.00	13.688	13.673	(1.116)	78888	120	115
84	4,6-Dinitro-2-methylphenol	198.00	13.898	13.825	(0.852)	41375	120	127
85	N-Nitrosodiphenylamine	169.00	14.084	14.034	(0.864)	96218	120	109
$ 88	2,4,6-Tribromophenol (SS)	330.00	14.352	14.313	(1.170)	39177	120	115
93	4-Bromophenylphenyl ether	248.00	15.131	15.114	(0.928)	47393	120	108
95	Hexachlorobenzene	284.00	15.225	15.195	(1.241)	74520	120	120
98	Pentachlorophenol	266.00	15.817	15.788	(0.970)	44578	120	117
*	Phenanthrene-d10	188.00	16.306	16.299	(1.000)	81714	40.0	
102	Phenanthrene	178.00	16.388	16.357	(1.005)	205995	120	108
103	Anthracene	178.00	16.528	16.497	(1.014)	202605	120	109
108	Di-n-butylphthalate	149.00	18.096	18.086	(1.110)	316526	120	115
113	Fluoranthene	202.00	19.431	19.398	(1.192)	241100	120	121
115	Pyrene	202.00	19.954	19.920	(0.880)	246820	120	91.1
$ 116	Terphenyl-d14 (SS)	244.00	20.407	20.397	(0.900)	173576	120	91.7
122	Butyl benzyl phthalate	149.00	21.591	21.569	(0.952)	145655	120	107
124	Benzo(a)anthracene	228.00	22.660	22.637	(0.999)	190693	120	115
* 126	Chrysene-d12	240.00	22.684	22.660	(1.000)	57316	40.0	
127	Chrysene	228.00	22.754	22.707	(1.003)	205827	120	118
128	Bis(2-ethylhexyl)phthalate	149.00	22.871	22.858	(1.008)	183099	120	107
129	Di-n-octylphthalate	149.00	24.171	24.157	(0.946)	309594	120	75.9
130	Benzo(b)fluoranthene	252.00	24.834	24.796	(0.972)	234167	120	109
132	Benzo(k)fluoranthene	252.00	24.893	24.854	(0.974)	211223	120	88.9
134	Benzo(a)pyrene	252.00	25.451	25.423	(0.996)	192438	120	109
* 135	Perylene-d12	264.00	25.544	25.528	(1.000)	68261	40.0	
138	Indeno(1,2,3-cd)pyrene	276.00	27.613	27.573	(1.081)	239604	120	131
139	Dibenz(a,h)anthracene	278.00	27.672	27.619	(1.083)	191683	120	130
140	Benzo(g,h,i)perylene	276.00	28.195	28.131	(1.104)	206688	120	139

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

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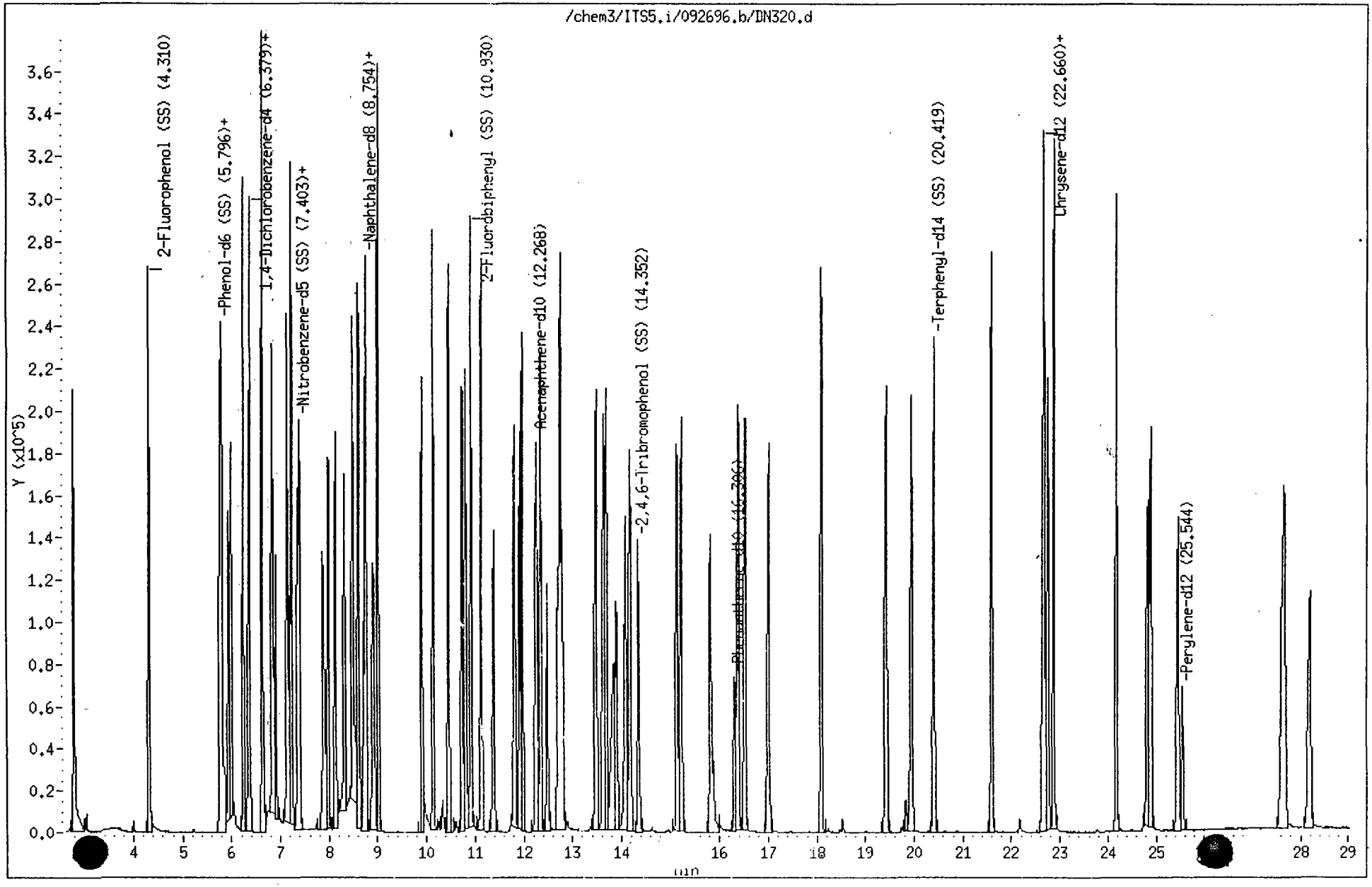
Data File: /chem3/ITS5.i/092696.b/DN320.d
Date : 26-SEP-1996 13:53
Client ID: SSTD120 AB396-72-2
Sample Info: ITS5 Calibration Standard (exp 8/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5



Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/092696.b/DN321.d
Lab Smp Id: SSTD080 AB396-72-2 Client Smp ID: SSTD080 AB396-72-2
Inj Date : 26-SEP-1996 14:30
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Calibration Standard (exp 8/97)
Misc Info : 80ug/mL 08-29-96 AB396-72-2 BTL# 6
Comment :
Method : /chem3/ITS5.i/092696.b/abn5.m
Meth Date : 26-Sep-1996 18:52 wsw Quant Type: ISTD
Cal Date : 26-SEP-1996 12:40 Cal File: DN318.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: STD050.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 N-Nitrosodimethylamine	74.00	2.743	2.742	(0.433)	19693	80.0	81.8
$	6 2-Fluorophenol (SS)	112.00	4.287	4.286	(0.677)	37639	80.0	78.6
$	7 Phenol-d6 (SS)	99.00	5.737	5.736	(0.906)	35653	80.0	75.1
	Phenol	94.00	5.761	5.760	(0.910)	36748	80.0	77.7
	13 Bis(2-Chloroethyl)Ether	93.00	5.912	5.911	(0.934)	32134	80.0	78.1
	14 2-Chlorophenol	128.00	5.970	5.969	(0.943)	37185	80.0	76.5
	15 1,3-Dichlorobenzene	146.00	6.226	6.225	(0.983)	45536	80.0	77.8
*	16 1,4-Dichlorobenzene-d4	152.00	6.331	6.329	(1.000)	15349	40.0	
	17 1,4-Dichlorobenzene	146.00	6.354	6.353	(1.004)	47339	80.0	77.9
	18 Benzyl alcohol	108.00	6.598	6.596	(1.042)	14182	80.0	66.8
	19 1,2-Dichlorobenzene	146.00	6.621	6.620	(1.046)	42613	80.0	76.7
	20 2-Methylphenol	108.00	6.807	6.806	(1.075)	24512	80.0	74.5
	21 Bis(2-Chloroisopropyl)ether	45.00	6.854	6.852	(1.083)	38160	80.0	75.6(M)
	26 N-Nitroso-di-n-propylamine	70.00	7.098	7.096	(1.121)	25739	80.0	73.4
	27 4-Methylphenol	108.00	7.098	7.096	(1.121)	23989	80.0	73.0
	28 Hexachloroethane	117.00	7.226	7.224	(1.141)	24383	80.0	78.3
$	29 Nitrobenzene-d5 (SS)	82.00	7.342	7.341	(0.845)	45342	80.0	78.2
	31 Nitrobenzene	77.00	7.377	7.375	(0.849)	42768	80.0	78.4
	33 Isophorone	82.00	7.842	7.840	(0.902)	66180	80.0	74.7
	34 2-Nitrophenol	139.00	7.970	7.968	(0.917)	20035	80.0	78.4
	35 2,4-Dimethylphenol	107.00	8.110	8.096	(0.933)	37330	80.0	74.2
	36 Bis(2-Chloroethoxy)methane	93.00	8.296	8.293	(0.954)	38512	80.0	78.1
	39 2,4-Dichlorophenol	162.00	8.459	8.456	(0.973)	33524	80.0	81.0
	40 Benzoic acid	122.00	8.424	8.386	(0.969)	20026	80.0	78.6
	41 1,2,4-Trichlorobenzene	180.00	8.599	8.596	(0.989)	37039	80.0	79.4
*	42 Naphthalene-d8	136.00	8.692	8.700	(1.000)	47088	40.0	
	43 Naphthalene	128.00	8.738	8.735	(1.005)	91377	80.0	78.3
	47 Hexachlorobutadiene	225.00	9.006	9.003	(1.036)	30253	80.0	79.1
	50 4-Chloro-3-methylphenol	107.00	9.888	9.885	(1.138)	33113	80.0	71.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	53 2-Methylnaphthalene	142.00	10.132	10.129	(1.166)	56776	80.0	76.3
	55 Hexachlorocyclopentadiene	237.00	10.446	10.454	(0.852)	29056	80.0	80.8
	56 2,4,6-Trichlorophenol	196.00	10.725	10.722	(0.875)	23049	80.0	76.6
	57 2,4,5-Trichlorophenol	196.00	10.795	10.791	(0.880)	23226	80.0	71.4
$	58 2-Fluorobiphenyl (SS)	172.00	10.912	10.908	(0.890)	72632	80.0	78.0
	59 2-Chloronaphthalene	162.00	11.121	11.117	(0.907)	60887	80.0	76.6
	64 Dimethyl phthalate	163.00	11.783	11.779	(0.961)	79103	80.0	76.5
	65 Acenaphthylene	152.00	11.958	11.954	(0.975)	88156	80.0	76.0
	66 2,6-Dinitrotoluene	165.00	11.888	11.884	(0.970)	18072	80.0	75.4
*	67 Acenaphthene-d10	164.00	12.260	12.256	(1.000)	26003	40.0	
	68 Acenaphthene	153.00	12.330	12.337	(1.006)	58085	80.0	76.3
	70 2,4-Dinitrophenol	184.00	12.446	12.453	(1.015)	10664	80.0	76.0
	71 Dibenzofuran	168.00	12.737	12.732	(1.039)	79769	80.0	76.4
	72 4-Nitrophenol	109.00	12.667	12.662	(1.033)	17807	80.0	74.0
	74 2,4-Dinitrotoluene	165.00	12.760	12.756	(1.041)	24230	80.0	75.3(M)
	78 Diethyl phthalate	149.00	13.445	13.441	(1.097)	84525	80.0	76.4
	79 Fluorene	166.00	13.620	13.615	(1.111)	63788	80.0	76.4
	80 4-Chlorophenylphenyl ether	204.00	13.667	13.673	(1.115)	34275	80.0	77.0
	84 4,6-Dinitro-2-methylphenol	198.00	13.830	13.825	(0.849)	14800	80.0	80.6
	85 N-Nitrosodiphenylamine	169.00	14.039	14.034	(0.862)	39875	80.0	78.5
$	88 2,4,6-Tribromophenol (SS)	330.00	14.318	14.313	(1.168)	16403	80.0	75.5
	93 4-Bromophenylphenyl ether	248.00	15.108	15.114	(0.927)	20482	80.0	80.3
	95 Hexachlorobenzene	284.00	15.201	15.195	(1.240)	31392	80.0	77.9
	98 Pentachlorophenol	266.00	15.793	15.788	(0.969)	16039	80.0	75.7
*	Phenanthrene-d10	188.00	16.293	16.299	(1.000)	46979	40.0	
	102 Phenanthrene	178.00	16.363	16.357	(1.004)	89323	80.0	80.6
	103 Anthracene	178.00	16.503	16.497	(1.013)	86825	80.0	80.2
	108 Di-n-butylphthalate	149.00	18.082	18.086	(1.110)	129546	80.0	80.2
	113 Fluoranthene	202.00	19.405	19.398	(1.191)	100374	80.0	82.5
	115 Pyrene	202.00	19.927	19.920	(0.879)	101240	80.0	70.3
$	116 Terphenyl-d14 (SS)	244.00	20.392	20.397	(0.900)	73243	80.0	71.7
	122 Butyl benzyl phthalate	149.00	21.576	21.569	(0.952)	56084	80.0	71.8
	124 Benzo(a)anthracene	228.00	22.644	22.637	(0.999)	79059	80.0	79.3
*	126 Chrysene-d12	240.00	22.668	22.660	(1.000)	34784	40.0	
	127 Chrysene	228.00	22.714	22.707	(1.002)	84022	80.0	79.2
	128 Bis(2-ethylhexyl)phthalate	149.00	22.854	22.858	(1.008)	72517	80.0	73.4
	129 Di-n-octylphthalate	149.00	24.154	24.157	(0.946)	113242	80.0	62.8
	130 Benzo(b)fluoranthene	252.00	24.804	24.796	(0.972)	79006	80.0	77.4
	132 Benzo(k)fluoranthene	252.00	24.863	24.854	(0.974)	82762	80.0	74.9
	134 Benzo(a)pyrene	252.00	25.421	25.423	(0.996)	67398	80.0	80.0
*	135 Perylene-d12	264.00	25.526	25.528	(1.000)	32914	40.0	
	138 Indeno(1,2,3-cd)pyrene	276.00	27.582	27.573	(1.081)	76210	80.0	85.5
	139 Dibenz(a,h)anthracene	278.00	27.629	27.619	(1.082)	62976	80.0	87.0
	140 Benzo(g,h,i)perylene	276.00	28.141	28.131	(1.102)	62569	80.0	85.7

QC Flag Legend

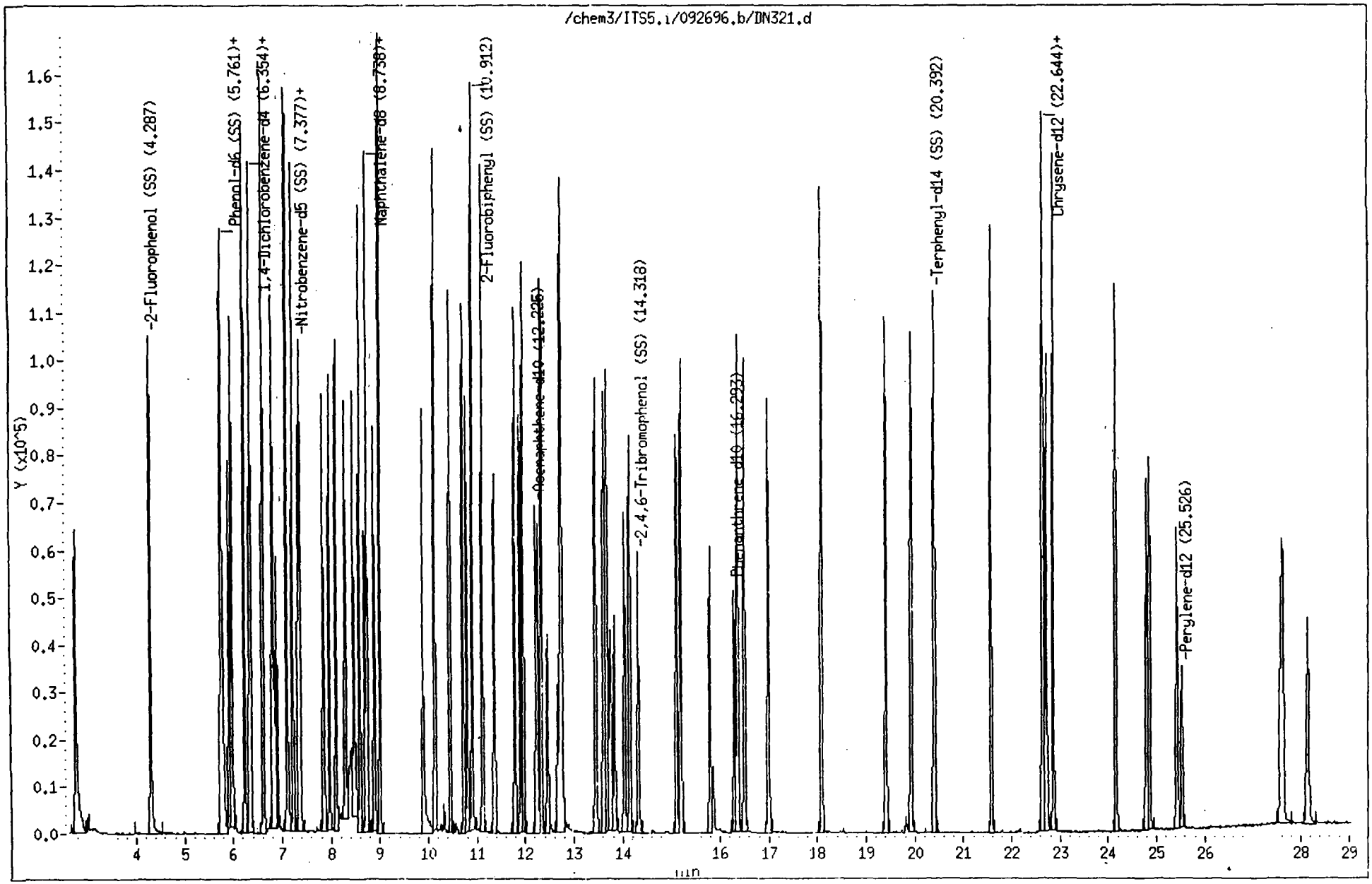
M - Compound response manually integrated.

Data File: /chem3/ITS5.i/092696.b/DN321.d
Date : 26-SEP-1996 14:30
Client ID: SSTD080 AB396-72-2
Sample Info: ITS5 Calibration Standard (exp 8/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5



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SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/092696.b/DN322.d
Lab Smp Id: SSTD020 AB396-72-2 Client Smp ID: SSTD020 AB396-72-2
Inj Date : 26-SEP-1996 15:07
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Calibration Standard (exp 8/97)
Misc Info : 20ug/mL 08-29-96 AB396-72-2 BTL# 7
Comment :
Method : /chem3/ITS5.i/092696.b/abn5.m
Meth Date : 26-Sep-1996 18:52 wsw Quant Type: ISTD
Cal Date : 26-SEP-1996 12:40 Cal File: DN318.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: STD050.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 N-Nitrosodimethylamine	74.00	2.737	2.742	(0.433)	5253	20.0	20.1
$	6 2-Fluorophenol (SS)	112.00	4.292	4.286	(0.679)	10486	20.0	20.5
$	10 Phenol-d6 (SS)	99.00	5.720	5.736	(0.904)	10519	20.0	20.8
	Phenol	94.00	5.743	5.760	(0.908)	10941	20.0	21.4(M)
	13 Bis(2-Chloroethyl)Ether	93.00	5.894	5.911	(0.932)	9317	20.0	21.1
	14 2-Chlorophenol	128.00	5.964	5.969	(0.943)	10898	20.0	21.0
	15 1,3-Dichlorobenzene	146.00	6.219	6.225	(0.983)	13594	20.0	21.7
*	16 1,4-Dichlorobenzene-d4	152.00	6.324	6.329	(1.000)	16446	40.0	
	17 1,4-Dichlorobenzene	146.00	6.359	6.353	(1.006)	13997	20.0	21.5
	18 Benzyl alcohol	108.00	6.580	6.596	(1.040)	4513	20.0	20.6
	19 1,2-Dichlorobenzene	146.00	6.614	6.620	(1.046)	12890	20.0	21.7
	20 2-Methylphenol	108.00	6.800	6.806	(1.075)	7569	20.0	21.6
	21 Bis(2-Chloroisopropyl)ether	45.00	6.847	6.852	(1.083)	10963	20.0	20.4(M)
	26 N-Nitroso-di-n-propylamine	70.00	7.079	7.096	(1.119)	7688	20.0	20.7
	27 4-Methylphenol	108.00	7.079	7.096	(1.119)	7630	20.0	21.7
	28 Hexachloroethane	117.00	7.219	7.224	(1.141)	7011	20.0	21.0
$	29 Nitrobenzene-d5 (SS)	82.00	7.323	7.341	(0.842)	12541	20.0	19.4
	31 Nitrobenzene	77.00	7.358	7.375	(0.846)	12269	20.0	20.0
	33 Isophorone	82.00	7.822	7.840	(0.900)	20435	20.0	20.5
	34 2-Nitrophenol	139.00	7.962	7.968	(0.916)	5664	20.0	19.8
	35 2,4-Dimethylphenol	107.00	8.090	8.096	(0.930)	11917	20.0	21.1
	36 Bis(2-Chloroethoxy)methane	93.00	8.287	8.293	(0.953)	11910	20.0	21.3
	39 2,4-Dichlorophenol	162.00	8.450	8.456	(0.972)	9586	20.0	20.8
	40 Benzoic acid	122.00	8.299	8.386	(0.955)	4064	20.0	14.3(QM)
	41 1,2,4-Trichlorobenzene	180.00	8.590	8.596	(0.988)	11632	20.0	22.2
*	42 Naphthalene-d8	136.00	8.694	8.700	(1.000)	53363	40.0	
	43 Naphthalene	128.00	8.729	8.735	(1.004)	28103	20.0	21.5
	47 Hexachlorobutadiene	225.00	8.997	9.003	(1.035)	9667	20.0	22.5
	50 4-Chloro-3-methylphenol	107.00	9.879	9.885	(1.136)	9408	20.0	18.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
53 2-Methylnaphthalene	142.00	10.123	10.129	(1.164)	18213	20.0	21.7
55 Hexachlorocyclopentadiene	237.00	10.448	10.454	(0.853)	7616	20.0	17.5
56 2,4,6-Trichlorophenol	196.00	10.715	10.722	(0.875)	7352	20.0	20.4
57 2,4,5-Trichlorophenol	196.00	10.797	10.791	(0.881)	7042	20.0	18.6
$ 58 2-Fluorobiphenyl (SS)	172.00	10.901	10.908	(0.890)	23930	20.0	21.3
59 2-Chloronaphthalene	162.00	11.111	11.117	(0.907)	20735	20.0	21.6
64 Dimethyl phthalate	163.00	11.773	11.779	(0.961)	25648	20.0	20.7
65 Acenaphthylene	152.00	11.948	11.954	(0.975)	29134	20.0	21.0
66 2,6-Dinitrotoluene	165.00	11.878	11.884	(0.969)	5234	20.0	18.6
* 67 Acenaphthene-d10	164.00	12.252	12.256	(1.000)	31474	40.0	
68 Acenaphthene	153.00	12.322	12.337	(1.006)	19702	20.0	21.5
70 2,4-Dinitrophenol	184.00	12.438	12.453	(1.015)	1992	20.0	11.9
71 Dibenzofuran	168.00	12.717	12.732	(1.038)	28075	20.0	22.2
72 4-Nitrophenol	109.00	12.671	12.662	(1.034)	4597	20.0	15.8(M)
74 2,4-Dinitrotoluene	165.00	12.740	12.756	(1.040)	7377	20.0	19.4(M)
78 Diethyl phthalate	149.00	13.425	13.441	(1.096)	27122	20.0	20.6
79 Fluorene	166.00	13.600	13.615	(1.110)	21116	20.0	21.1
80 4-Chlorophenylphenyl ether	204.00	13.658	13.673	(1.115)	11454	20.0	21.4
84 4,6-Dinitro-2-methylphenol	198.00	13.797	13.825	(0.847)	3509	20.0	16.1
85 N-Nitrosodiphenylamine	169.00	14.018	14.034	(0.860)	13146	20.0	21.6
$ 88 2,4,6-Tribromophenol (SS)	330.00	14.297	14.313	(1.167)	4948	20.0	19.3
93 4-Bromophenylphenyl ether	248.00	15.098	15.114	(0.927)	6721	20.0	21.9
95 Hexachlorobenzene	284.00	15.179	15.195	(1.239)	10130	20.0	21.0
[illegible] Pentachlorophenol	266.00	15.783	15.788	(0.969)	4209	20.0	17.0
* Phenanthrene-d10	188.00	16.294	16.299	(1.000)	56782	40.0	
102 Phenanthrene	178.00	16.352	16.357	(1.004)	29995	20.0	22.6
103 Anthracene	178.00	16.492	16.497	(1.012)	29098	20.0	22.5
108 Di-n-butylphthalate	149.00	18.070	18.086	(1.109)	41899	20.0	21.8
113 Fluoranthene	202.00	19.393	19.398	(1.190)	34290	20.0	23.4
115 Pyrene	202.00	19.916	19.920	(0.879)	35804	20.0	19.0
$ 116 Terphenyl-d14 (SS)	244.00	20.380	20.397	(0.900)	26224	20.0	19.6
122 Butyl benzyl phthalate	149.00	21.564	21.569	(0.952)	19404	20.0	18.9
124 Benzo(a)anthracene	228.00	22.632	22.637	(0.999)	29660	20.0	20.9
* 126 Chrysene-d12	240.00	22.655	22.660	(1.000)	49931	40.0	
127 Chrysene	228.00	22.702	22.707	(1.002)	32068	20.0	21.1
128 Bis(2-ethylhexyl)phthalate	149.00	22.853	22.858	(1.009)	25979	20.0	19.7
129 Di-n-octylphthalate	149.00	24.153	24.157	(0.946)	41311	20.0	19.2
130 Benzo(b)fluoranthene	252.00	24.791	24.796	(0.971)	29681	20.0	20.0
132 Benzo(k)fluoranthene	252.00	24.849	24.854	(0.974)	34228	20.0	21.4
134 Benzo(a)pyrene	252.00	25.419	25.423	(0.996)	26418	20.0	20.7
* 135 Perylene-d12	264.00	25.523	25.528	(1.000)	50317	40.0	
138 Indeno(1,2,3-cd)pyrene	276.00	27.568	27.573	(1.080)	32397	20.0	21.9
139 Dibenz(a,h)anthracene	278.00	27.615	27.619	(1.082)	26870	20.0	22.2
140 Benzo(g,h,i)perylene	276.00	28.126	28.131	(1.102)	26699	20.0	21.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

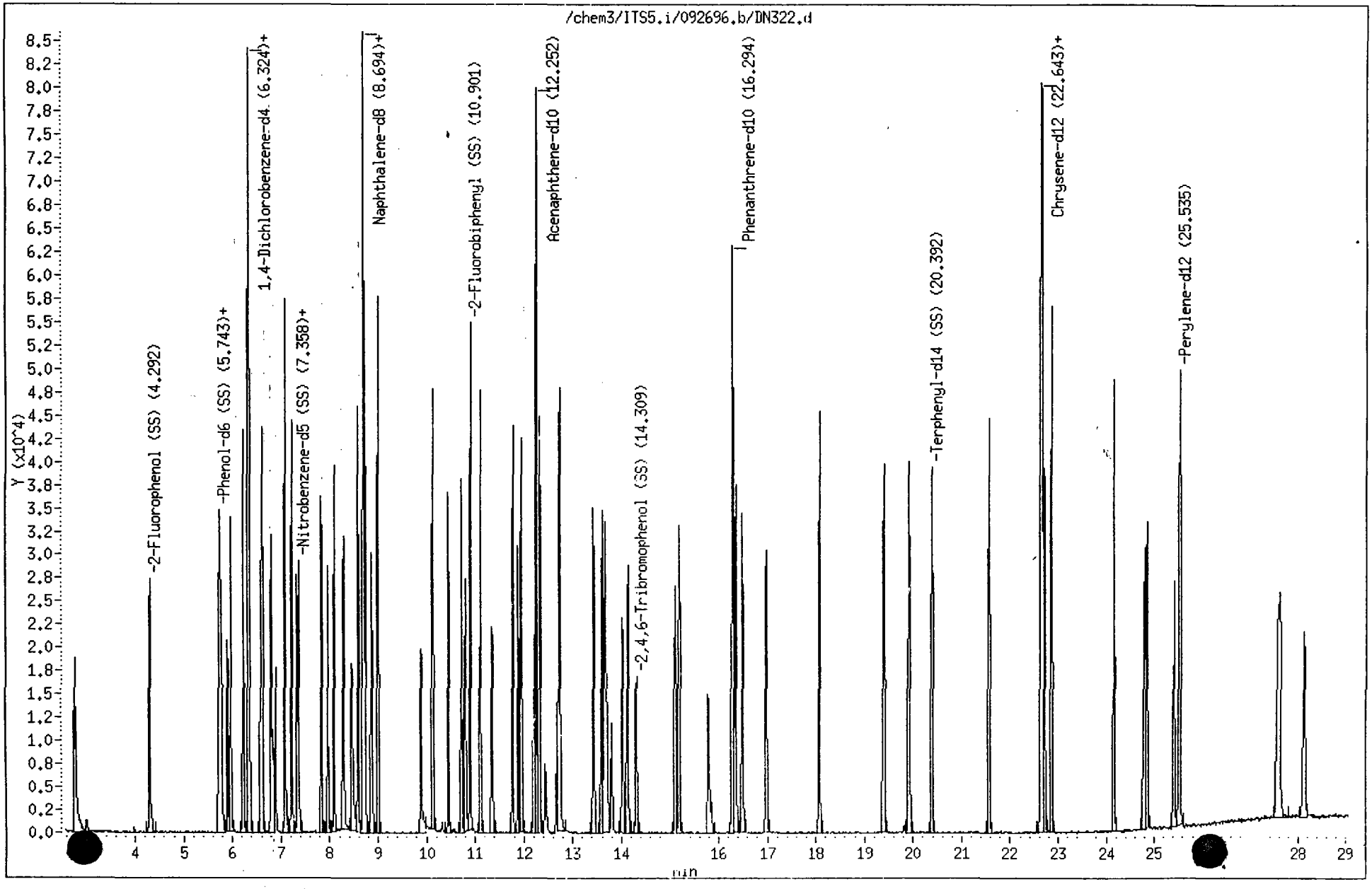
316

Data File: /chem3/ITS5.i/092696.b/DN322.d
Date : 26-SEP-1996 15:07
Client ID: SSTD020 AB396-72-2
Sample Info: ITS5 Calibration Standard (exp 8/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5



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SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/092696.b/DN323.d
Lab Smp Id: ANLN160 AB396-56-2 Client Smp ID: ANLN160 AB396-56-2
Inj Date : 26-SEP-1996 15:44
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Aniline Calibration Std (exp 5/97)
Misc Info : 160ug/mL 03-12-96 AB396-56-2 BTL# 8
Comment :
Method : /chem3/ITS5.i/092696.b/abn5.m
Meth Date : 26-Sep-1996 18:52 wsw Quant Type: ISTD
Cal Date : 26-SEP-1996 12:40 Cal File: DN318.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: ANILINE_50.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
12 Aniline	93.00	5.795	5.764	(0.916)	118929	160	153
45 4-Chloroaniline	127.00	8.894	8.862	(1.024)	104350	160	150
[illegible] 2-Nitroaniline	65.00	11.389	11.345	(0.929)	69141	160	162(A)
3-Nitroaniline	138.00	12.248	12.192	(0.999)	47026	160	163(A)
83 4-Nitroaniline	138.00	13.780	13.689	(1.124)	47909	160	170(A)
* 16 1,4-Dichlorobenzene-d4	152.00	6.329	6.329	(1.000)	21565	40.0	
* 42 Naphthalene-d8	136.00	8.685	8.700	(1.000)	64272	40.0	
* 67 Acenaphthene-d10	164.00	12.260	12.256	(1.000)	32713	40.0	
* 101 Phenanthrene-d10	188.00	16.286	16.299	(1.000)	58562	40.0	
* 126 Chrysene-d12	240.00	22.646	22.660	(1.000)	45803	40.0	
* 135 Perylene-d12	264.00	25.526	25.528	(1.000)	57201	40.0	
114 Benzidine	184.00	19.837	19.796	(0.876)	158683	160	178(A)
125 3,3'-Dichlorobenzidine	252.00	22.658	22.616	(1.001)	98431	160	193(A)
106 Carbazole	167.00	17.017	16.965	(1.045)	214023	160	142
87 1,2-Diphenylhydrazine	77.00	14.164	14.119	(0.870)	198727	160	147

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

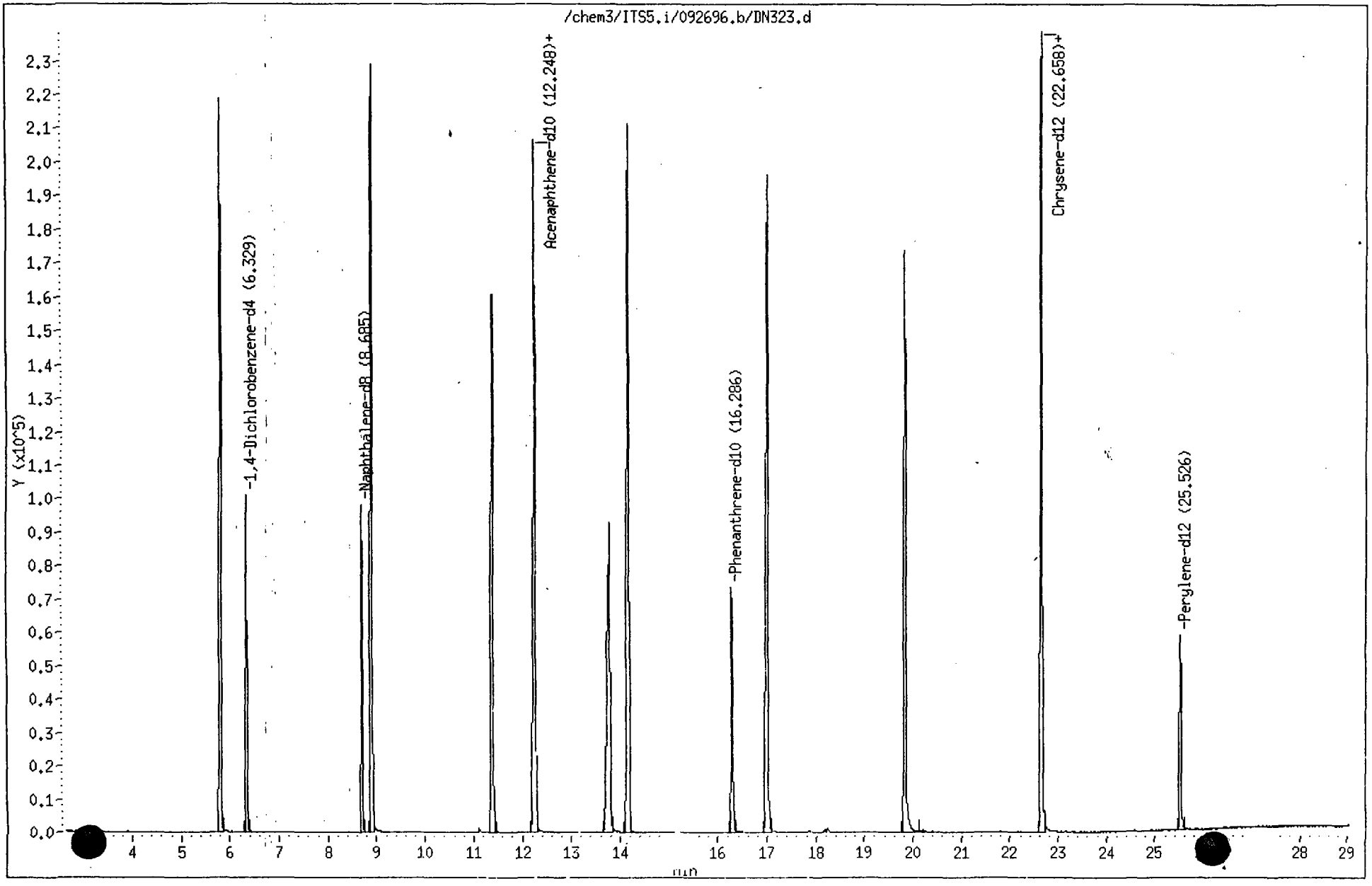
3118

Data File: /chem3/ITS5.i/092696.b/DN323.d
Date : 26-SEP-1996 15:44
Client ID: ANLN160 AB396-56-2
Sample Info: ITS5 Aniline Calibration Std (exp 5/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5



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SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/092696.b/DN324.d
Lab Smp Id: ANLN120 AB396-56-2 Client Smp ID: ANLN120 AB396-56-2
Inj Date : 26-SEP-1996 16:20
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Aniline Calibration Std (exp 5/97)
Misc Info : 120ug/mL 03-12-96 AB396-56-2 BTL# 9
Comment :
Method : /chem3/ITS5.i/092696.b/abn5.m
Meth Date : 26-Sep-1996 18:52 wsw Quant Type: ISTD
Cal Date : 26-SEP-1996 12:40 Cal File: DN318.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: ANILINE_50.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
12 Aniline	93.00	5.787	5.764	(0.916)	78971	120	116
45 4-Chloroaniline	127.00	8.874	8.862	(1.021)	71578	120	117
42 2-Nitroaniline	65.00	11.370	11.345	(0.928)	45700	120	118
3-Nitroaniline	138.00	12.229	12.192	(0.998)	31947	120	119
83 4-Nitroaniline	138.00	13.750	13.689	(1.122)	31399	120	121
* 16 1,4-Dichlorobenzene-d4	152.00	6.321	6.329	(1.000)	18876	40.0	
* 42 Naphthalene-d8	136.00	8.688	8.700	(1.000)	56437	40.0	
* 67 Acenaphthene-d10	164.00	12.252	12.256	(1.000)	30570	40.0	
* 101 Phenanthrene-d10	188.00	16.283	16.299	(1.000)	51471	40.0	
* 126 Chrysene-d12	240.00	22.644	22.660	(1.000)	42318	40.0	
* 135 Perylene-d12	264.00	25.522	25.528	(1.000)	46289	40.0	
114 Benzidine	184.00	19.822	19.796	(0.875)	104718	120	126
125 3,3'-Dichlorobenzidine	252.00	22.644	22.616	(1.000)	66325	120	133
106 Carbazole	167.00	17.003	16.965	(1.044)	148649	120	112
87 1,2-Diphenylhydrazine	77.00	14.144	14.119	(0.869)	137413	120	115

310

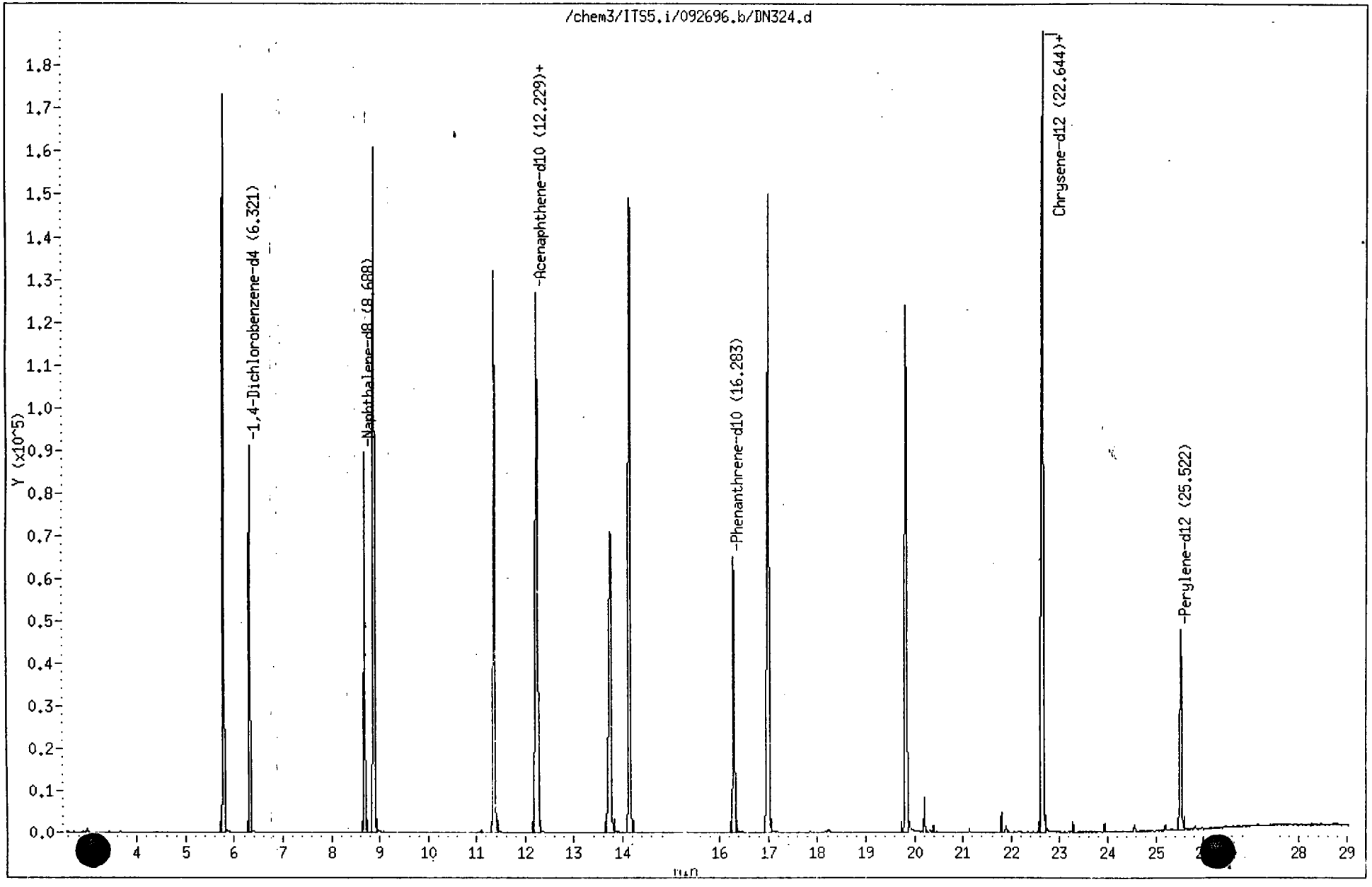
Data File: /chem3/ITS5.i/092696.b/DN324.d
Date : 26-SEP-1996 16:20
Client ID: ANLN120 AB396-56-2
Sample Info: ITS5 Aniline Calibration Std (exp 5/97)

Instrument: ITS5.i

Operator: WSW

Column phase: DB-5

Column diameter: 0.25



Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/092696.b/DN325.d
Lab Smp Id: ANLN080 AB396-56-2 Client Smp ID: ANLN080 AB396-56-2
Inj Date : 26-SEP-1996 16:57
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Aniline Calibration Std (exp 5/97)
Misc Info : 80ug/mL 03-12-96 AB396-56-2 BTL#10
Comment :
Method : /chem3/ITS5.i/092696.b/abn5.m
Meth Date : 26-Sep-1996 18:52 wsw Quant Type: ISTD
Cal Date : 26-SEP-1996 12:40 Cal File: DN318.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: ANILINE_50.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
12 Aniline	93.00	5.790	5.764	(0.916)	63416	80.0	78.0
45 4-Chloroaniline	127.00	8.877	8.862	(1.021)	60887	80.0	79.4
[illegible] 2-Nitroaniline	65.00	11.372	11.345	(0.928)	40869	80.0	80.6
3-Nitroaniline	138.00	12.219	12.192	(0.997)	29379	80.0	82.8
83 4-Nitroaniline	138.00	13.752	13.689	(1.122)	30096	80.0	87.2
* 16 1,4-Dichlorobenzene-d4	152.00	6.323	6.329	(1.000)	22675	40.0	
* 42 Naphthalene-d8	136.00	8.691	8.700	(1.000)	70566	40.0	
* 67 Acenaphthene-d10	164.00	12.254	12.256	(1.000)	39994	40.0	
* 101 Phenanthrene-d10	188.00	16.286	16.299	(1.000)	70257	40.0	
* 126 Chrysene-d12	240.00	22.646	22.660	(1.000)	67376	40.0	
* 135 Perylene-d12	264.00	25.525	25.528	(1.000)	85612	40.0	
114 Benzidine	184.00	19.826	19.796	(0.875)	115296	80.0	85.1
125 3,3'-Dichlorobenzidine	252.00	22.634	22.616	(0.999)	70773	80.0	84.4
106 Carbazole	167.00	16.994	16.965	(1.044)	142802	80.0	78.6
87 1,2-Diphenylhydrazine	77.00	14.147	14.119	(0.869)	124631	80.0	76.7

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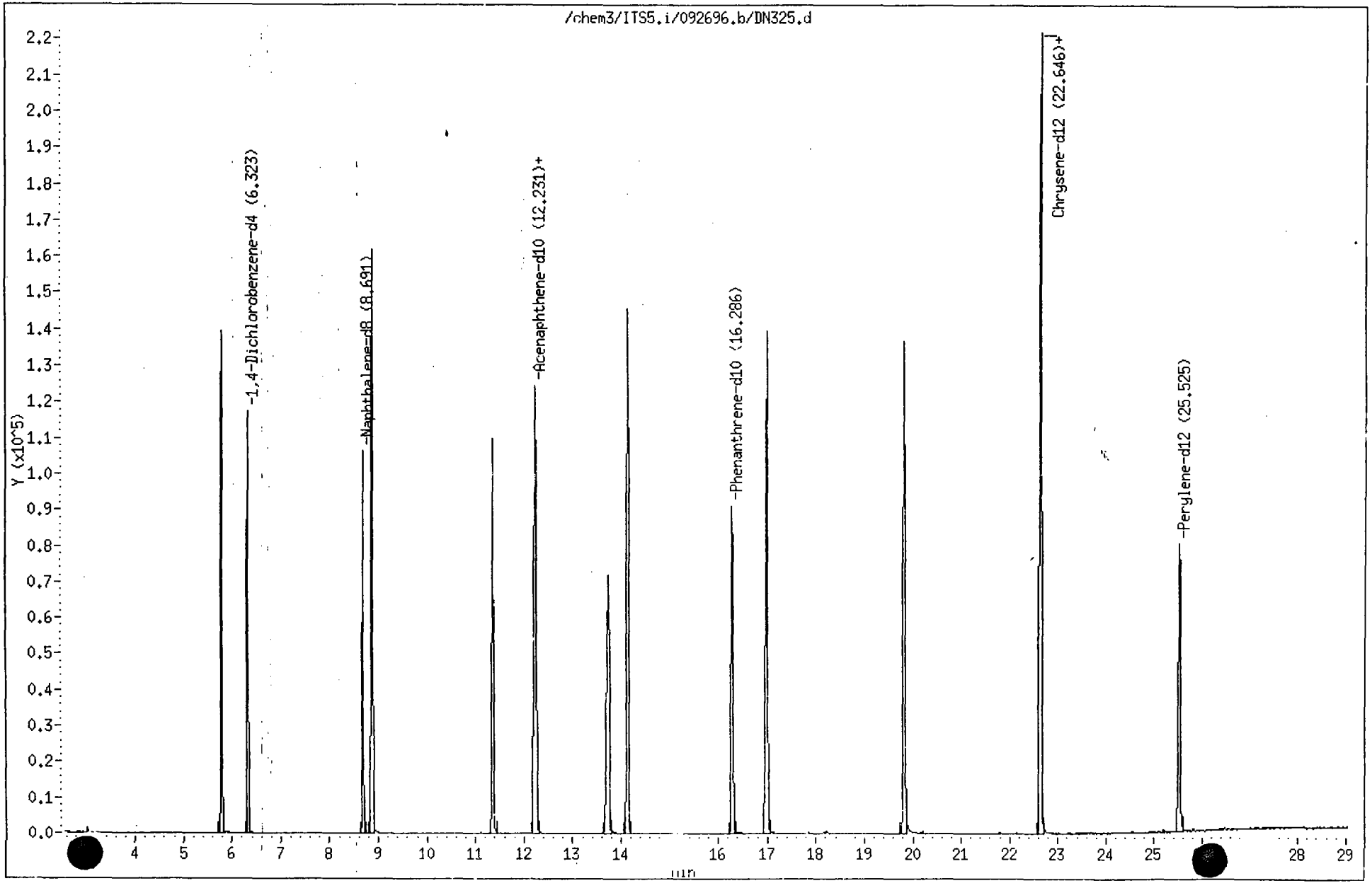
Data File: /chem3/ITS5.i/092696.b/DN325.d
Date : 26-SEP-1996 16:57
Client ID: ANLN080 AB396-56-2
Sample Info: ITS5 Aniline Calibration Std (exp 5/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5



Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/092696.b/DN326.d
Lab Smp Id: ANLN020 AB396-56-2 Client Smp ID: ANLN020 AB396-56-2
Inj Date : 26-SEP-1996 17:34
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Aniline Calibration Std (exp 5/97)
Misc Info : 20ug/mL 03-12-96 AB396-56-2 BTL#11
Comment :
Method : /chem3/ITS5.i/092696.b/abn5.m
Meth Date : 26-Sep-1996 18:52 wsw Quant Type: ISTD
Cal Date : 26-SEP-1996 12:40 Cal File: DN318.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: ANILINE_50.sub
Target Version: 3.10

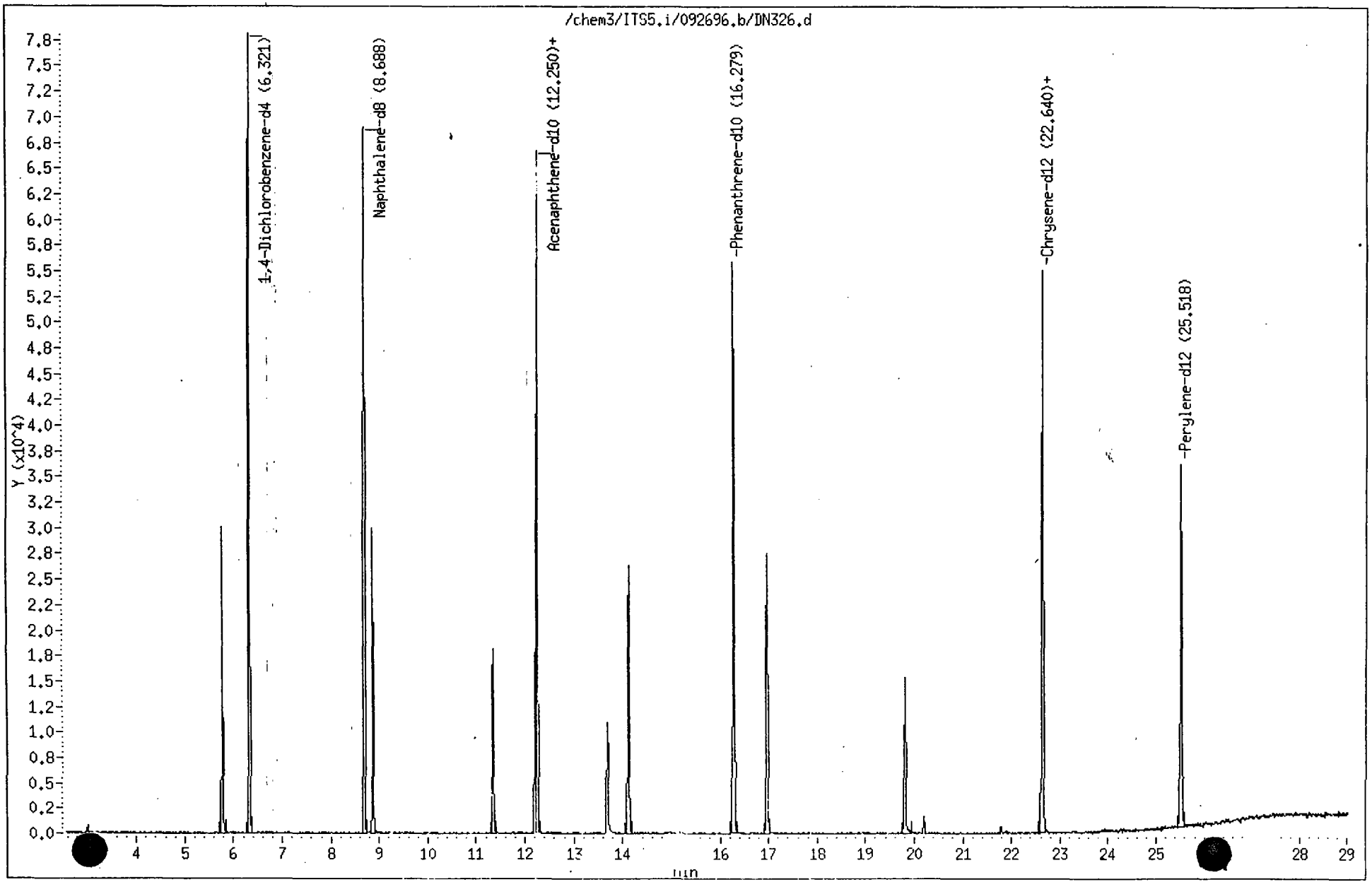
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
12 Aniline	93.00	5.764	5.764	(0.912)	12798	20.0	21.1
45 4-Chloroaniline	127.00	8.862	8.862	(1.021)	11255	20.0	21.4
[illegible] 2-Nitroaniline	65.00	11.345	11.345	(0.926)	5423	20.0	17.1
3-Nitroaniline	138.00	12.192	12.192	(0.995)	4081	20.0	18.1
83 4-Nitroaniline	138.00	13.689	13.689	(1.117)	3410	20.0	15.6
* 16 1,4-Dichlorobenzene-d4	152.00	6.321	6.329	(1.000)	17093	40.0	
* 42 Naphthalene-d8	136.00	8.676	8.700	(1.000)	48631	40.0	
* 67 Acenaphthene-d10	164.00	12.250	12.256	(1.000)	25829	40.0	
* 101 Phenanthrene-d10	188.00	16.279	16.299	(1.000)	42026	40.0	
* 126 Chrysene-d12	240.00	22.640	22.660	(1.000)	38123	40.0	
* 135 Perylene-d12	264.00	25.518	25.528	(1.000)	34245	40.0	
114 Benzidine	184.00	19.796	19.796	(0.874)	13284	20.0	17.4
125 3,3'-Dichlorobenzidine	252.00	22.616	22.616	(0.999)	8613	20.0	17.8
106 Carbazole	167.00	16.965	16.965	(1.042)	24210	20.0	22.5
87 1,2-Diphenylhydrazine	77.00	14.119	14.119	(0.867)	20507	20.0	21.5

Data File: /chem3/ITS5.i/092696.b/DN326.d
Date : 26-SEP-1996 17:34
Client ID: ANLN020 AB396-56-2
Sample Info: ITS5 Aniline Calibration Std (exp 5/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5



Data File: /chem3/ITS5.i/073196.b/DM673.d
Report Date: 02-Aug-1996 11:39

Inchcape Testing Services - Dallas

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ITS5.i Injection Date: 31-JUL-1996 09:08
Lab File ID: DM673.d Init. Calibration Date(s): 07/30/96 07/30/96
Analysis Type: Init. Calibration Times: 11:57 20:48
Lab Sample ID: SSTD050 AB396-55-2 Method File: /chem3/ITS5.i/073196.b/abn5.
Quant Type: ISTD

Appendix IX Compounds

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
1 N-Nitrosodimethylamine	1.093	0.953	0.050	12.8	20.0	
$ 6 2-Fluorophenol (SS)	1.540	1.381	0.050	10.3	20.0	
$ 10 Phenol-d6 (SS)	1.775	1.593	0.050	10.3	20.0	
11 Phenol	1.743	1.638	0.050	6.0	20.0	
13 Bis(2-Chloroethyl)Ether	1.574	1.478	0.050	6.1	20.0	
14 2-Chlorophenol	1.465	1.361	0.050	7.1	20.0	
15 1,3-Dichlorobenzene	1.531	1.459	0.050	4.7	20.0	
17 1,4-Dichlorobenzene	1.530	1.543	0.050	0.8	20.0	
18 Benzyl alcohol	0.830	0.788	0.050	5.1	20.0	
19 1,2-Dichlorobenzene	1.386	1.417	0.050	2.2	20.0	
20 2-Methylphenol	1.165	1.085	0.050	6.8	20.0	
21 Bis(2-Chloroisopropyl)ether	2.080	1.731	0.050	16.8	20.0	
26 N-Nitroso-di-n-propylamine	1.017	0.957	0.050	5.9	20.0	
27 4-Methylphenol	1.059	1.077	0.050	1.7	20.0	
28 Hexachloroethane	0.617	0.663	0.050	7.5	20.0	
$ 29 Nitrobenzene-d5 (SS)	0.464	0.418	0.050	9.9	20.0	
31 Nitrobenzene	0.421	0.388	0.050	7.8	20.0	
33 Isophorone	0.817	0.735	0.050	10.1	20.0	
34 2-Nitrophenol	0.222	0.203	0.050	8.4	20.0	
35 2,4-Dimethylphenol	0.281	0.315	0.050	12.3	20.0	
36 Bis(2-Chloroethoxy)methane	0.515	0.479	0.050	6.9	20.0	
39 2,4-Dichlorophenol	0.291	0.281	0.050	3.3	20.0	
40 Benzoic acid	0.186	0.132	0.050	29.1	20.0	<-
41 1,2,4-Trichlorobenzene	0.307	0.304	0.050	1.0	20.0	
43 Naphthalene	0.924	0.968	0.050	4.8	20.0	
47 Hexachlorobutadiene	0.167	0.167	0.050	0.3	20.0	
50 4-Chloro-3-methylphenol	0.318	0.300	0.050	5.7	20.0	
53 2-Methylnaphthalene	0.569	0.581	0.050	2.1	20.0	
55 Hexachlorocyclopentadiene	0.361	0.355	0.050	1.6	20.0	
56 2,4,6-Trichlorophenol	0.395	0.381	0.050	3.5	20.0	
57 2,4,5-Trichlorophenol	0.413	0.390	0.050	5.7	20.0	
$ 58 2-Fluorobiphenyl (SS)	1.330	1.336	0.050	0.4	20.0	
59 2-Chloronaphthalene	1.164	1.141	0.050	1.9	20.0	
64 Dimethyl phthalate	1.357	1.310	0.050	3.5	20.0	
65 Acenaphthylene	1.809	1.847	0.050	2.1	20.0	
66 2,6-Dinitrotoluene	0.346	0.302	0.050	12.6	20.0	
68 Acenaphthene	1.100	1.093	0.050	0.7	20.0	
70 2,4-Dinitrophenol	0.187	0.129	0.050	31.2	20.0	<-
71 Dibenzofuran	1.516	1.488	0.050	1.9	20.0	
72 4-Nitrophenol	0.151	0.125	0.050	16.9	20.0	

W. J. Wingert Aug. 2, 1996
ANALYST Date

0 315

Inchcape Testing Services - Dallas

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ITS5.i
Lab File ID: DM673.d
Analysis Type:
Lab Sample ID: SSTD050
Quant Type: ISTD

Injection Date: 31-JUL-1996 09:08
Init. Calibration Date(s): 07/30/96 07/30/96
Init. Calibration Times: 11:57 20:48
AB396-55-2 Method File: /chem3/ITS5.i/073196.b/abn5.

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	74 2,4-Dinitrotoluene	0.456	0.402	0.050	11.8	20.0
	78 Diethyl phthalate	1.231	1.250	0.050	1.6	20.0
	79 Fluorene	1.094	1.113	0.050	1.7	20.0
	80 4-Chlorophenylphenyl ether	0.541	0.522	0.050	3.5	20.0
	84 4,6-Dinitro-2-methylphenol	0.179	0.149	0.050	16.7	20.0
	85 N-Nitrosodiphenylamine	0.559	0.547	0.050	2.1	20.0
$	88 2,4,6-Tribromophenol (SS)	0.190	0.155	0.050	18.2	20.0
	93 4-Bromophenylphenyl ether	0.213	0.205	0.050	3.8	20.0
	95 Hexachlorobenzene	0.382	0.347	0.050	9.2	20.0
	98 Pentachlorophenol	0.187	0.161	0.050	13.9	20.0
	102 Phenanthrene	1.177	1.135	0.050	3.6	20.0
	103 Anthracene	1.178	1.150	0.050	2.3	20.0
	108 Di-n-butylphthalate	1.535	1.543	0.050	0.5	20.0
	113 Fluoranthene	1.130	1.062	0.050	6.0	20.0
	115 Pyrene	1.904	1.702	0.050	10.6	20.0
$	116 Terphenyl-d14 (SS)	1.235	1.099	0.050	11.1	20.0
	122 Butyl benzyl phthalate	1.045	0.914	0.050	12.5	20.0
	124 Benzo(a)anthracene	1.236	1.127	0.050	8.9	20.0
	127 Chrysene	1.166	1.123	0.050	3.7	20.0
	128 Bis(2-ethylhexyl)phthalate	1.306	1.172	0.050	10.3	20.0
	129 Di-n-octylphthalate	2.626	2.328	0.050	11.4	20.0
	130 Benzo(b)fluoranthene	1.301	1.313	0.050	0.9	20.0
	132 Benzo(k)fluoranthene	1.527	1.332	0.050	12.8	20.0
	134 Benzo(a)pyrene	1.123	1.063	0.050	5.4	20.0
	138 Indeno(1,2,3-cd)pyrene	0.942	0.880	0.050	6.6	20.0
	139 Dibenz(a,h)anthracene	0.765	0.705	0.050	7.8	20.0
	140 Benzo(g,h,i)perylene	0.770	0.732	0.050	4.9	20.0

Inchcape Testing Services - Dallas

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ITS5.i
Lab File ID: DM674.d
Analysis Type:
Lab Sample ID: ANLN050
Quant Type: ISTD

Injection Date: 31-JUL-1996 09:44
Init. Calibration Date(s): 07/30/96 07/30/96
Init. Calibration Times: 11:57 20:48
AB396-56-2 Method File: /chem3/ITS5.i/073196.b/abn5.

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
12 Aniline	2.061	2.071	0.050	0.5	20.0
45 4-Chloroaniline	0.448	0.479	0.050	7.1	20.0
62 2-Nitroaniline	0.514	0.502	0.050	2.3	20.0
69 3-Nitroaniline	0.390	0.391	0.050	0.2	20.0
83 4-Nitroaniline	0.345	0.349	0.050	1.1	20.0
114 Benzidine	0.746	0.738	0.050	1.1	20.0
125 3,3'-Dichlorobenzidine	0.431	0.422	0.050	1.9	20.0
106 Carbazole	1.111	1.136	0.050	2.3	20.0
87 1,2-Diphenylhydrazine	1.238	1.228	0.050	0.8	20.0

Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM673.d
Lab Smp Id: SSTD050 AB396-55-2 Client Smp ID: SSTD050 AB396-55-2
Inj Date : 31-JUL-1996 09:08
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Calibration Standard (exp 9/96)
Misc Info : 50ug/mL 03-12-96 AB396-55-2 BTL# 2
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 11:42 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 09:08 Cal File: DM673.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: STD050.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
1 N-Nitrosodimethylamine	74.00	2.552	2.552	(0.432)	51327	50.0	43.6
$ 6 2-Fluorophenol (SS)	112.00	4.015	4.015	(0.680)	74382	50.0	44.8
$ 10 Phenol-d6 (SS)	99.00	5.432	5.432	(0.919)	85783	50.0	44.9
11 Phenol	94.00	5.444	5.444	(0.921)	88209	50.0	47.0
13 Bis(2-Chloroethyl)Ether	93.00	5.560	5.560	(0.941)	79595	50.0	46.9
14 2-Chlorophenol	128.00	5.607	5.607	(0.949)	73279	50.0	46.4
15 1,3-Dichlorobenzene	146.00	5.839	5.839	(0.988)	78585	50.0	47.6
* 16 1,4-Dichlorobenzene-d4	152.00	5.909	5.909	(1.000)	43080	40.0	
17 1,4-Dichlorobenzene	146.00	5.932	5.932	(1.004)	83079	50.0	50.4
18 Benzyl alcohol	108.00	6.222	6.222	(1.053)	42417	50.0	47.5
19 1,2-Dichlorobenzene	146.00	6.246	6.246	(1.057)	76285	50.0	51.1
20 2-Methylphenol	108.00	6.455	6.455	(1.092)	58433	50.0	46.6
21 Bis(2-Chloroisopropyl)ether	45.00	6.490	6.490	(1.098)	93190	50.0	41.6(M)
26 N-Nitroso-di-n-propylamine	70.00	6.757	6.757	(1.144)	51557	50.0	47.0
27 4-Methylphenol	108.00	6.734	6.734	(1.140)	57986	50.0	50.8
28 Hexachloroethane	117.00	6.780	6.780	(1.147)	35714	50.0	53.7
$ 29 Nitrobenzene-d5 (SS)	82.00	6.955	6.955	(0.844)	78133	50.0	45.0
31 Nitrobenzene	77.00	6.989	6.989	(0.848)	72532	50.0	46.1
33 Isophorone	82.00	7.419	7.419	(0.900)	137281	50.0	45.0
34 2-Nitrophenol	139.00	7.581	7.581	(0.920)	37970	50.0	45.8
35 2,4-Dimethylphenol	107.00	7.709	7.709	(0.935)	58921	50.0	56.2
36 Bis(2-Chloroethoxy)methane	93.00	7.895	7.895	(0.958)	89519	50.0	46.5
39 2,4-Dichlorophenol	162.00	8.023	8.023	(0.973)	52502	50.0	48.3
40 Benzoic acid	122.00	7.942	7.942	(0.963)	12304	25.0	17.7
41 1,2,4-Trichlorobenzene	180.00	8.174	8.174	(0.992)	56720	50.0	49.5
* 42 Naphthalene-d8	136.00	8.244	8.244	(1.000)	149449	40.0	
43 Naphthalene	128.00	8.279	8.279	(1.004)	180752	50.0	52.4
47 Hexachlorobutadiene	225.00	8.639	8.639	(1.048)	31141	50.0	49.9
50 4-Chloro-3-methylphenol	107.00	9.475	9.475	(1.149)	56043	50.0	47.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	53 2-Methylnaphthalene	142.00	9.638	9.638	(1.169)	108515	50.0	51.0
	55 Hexachlorocyclopentadiene	237.00	10.102	10.102	(0.858)	32497	50.0	49.2
	56 2,4,6-Trichlorophenol	196.00	10.300	10.300	(0.875)	34922	50.0	48.2
	57 2,4,5-Trichlorophenol	196.00	10.358	10.358	(0.880)	35709	50.0	47.2
$	58 2-Fluorobiphenyl (SS)	172.00	10.451	10.451	(0.888)	122311	50.0	50.2
	59 2-Chloronaphthalene	162.00	10.614	10.614	(0.901)	104537	50.0	49.0
	64 Dimethyl phthalate	163.00	11.403	11.403	(0.968)	119997	50.0	48.3
	65 Acenaphthylene	152.00	11.461	11.461	(0.973)	169195	50.0	51.1
	66 2,6-Dinitrotoluene	165.00	11.542	11.542	(0.980)	27698	50.0	43.7
*	67 Acenaphthene-d10	164.00	11.775	11.775	(1.000)	73267	40.0	
	68 Acenaphthene	153.00	11.845	11.845	(1.006)	100064	50.0	49.6
	70 2,4-Dinitrophenol	184.00	12.007	12.007	(1.020)	11820	50.0	34.4
	71 Dibenzofuran	168.00	12.170	12.170	(1.034)	136262	50.0	49.1
	72 4-Nitrophenol	109.00	12.193	12.193	(1.036)	11483	50.0	41.6(M)
	74 2,4-Dinitrotoluene	165.00	12.333	12.333	(1.047)	36851	50.0	44.1(M)
	78 Diethyl phthalate	149.00	12.924	12.924	(1.098)	114487	50.0	50.8
	79 Fluorene	166.00	12.948	12.948	(1.100)	101966	50.0	50.9
	80 4-Chlorophenylphenyl ether	204.00	12.995	12.995	(1.104)	47832	50.0	48.2
	84 4,6-Dinitro-2-methylphenol	198.00	13.285	13.285	(0.852)	17083	50.0	41.6
	85 N-Nitrosodiphenylamine	169.00	13.343	13.343	(0.856)	62794	50.0	48.9
$	88 2,4,6-Tribromophenol (SS)	330.00	13.645	13.645	(1.159)	14228	50.0	40.9
	93 4-Bromophenylphenyl ether	248.00	14.364	14.364	(0.922)	23523	50.0	48.1
	95 Hexachlorobenzene	284.00	14.736	14.736	(1.251)	31745	50.0	45.4
	98 Pentachlorophenol	266.00	15.293	15.293	(0.981)	18471	50.0	43.0
*	101 Phenanthrene-d10	188.00	15.584	15.584	(1.000)	91843	40.0	
	102 Phenanthrene	178.00	15.654	15.654	(1.004)	130294	50.0	48.2
	103 Anthracene	178.00	15.770	15.770	(1.012)	132047	50.0	48.8
	108 Di-n-butylphthalate	149.00	17.521	17.521	(1.124)	177141	50.0	50.3
	113 Fluoranthene	202.00	18.762	18.762	(1.204)	121959	50.0	47.0
	115 Pyrene	202.00	19.284	19.284	(0.875)	124350	50.0	44.7
$	116 Terphenyl-d14 (SS)	244.00	19.772	19.772	(0.897)	80237	50.0	44.5
	122 Butyl benzyl phthalate	149.00	21.024	21.024	(0.954)	66745	50.0	43.7
	124 Benzo(a)anthracene	228.00	22.010	22.010	(0.998)	82285	50.0	45.6
*	126 Chrysene-d12	240.00	22.045	22.045	(1.000)	58432	40.0	
	127 Chrysene	228.00	22.103	22.103	(1.003)	82060	50.0	48.2
	128 Bis(2-ethylhexyl)phthalate	149.00	22.335	22.335	(1.013)	85572	50.0	44.8
	129 Di-n-octylphthalate	149.00	23.542	23.542	(0.946)	124271	50.0	44.3
	130 Benzo(b)fluoranthene	252.00	24.180	24.180	(0.972)	70101	50.0	50.4
	132 Benzo(k)fluoranthene	252.00	24.227	24.227	(0.973)	71129	50.0	43.6
	134 Benzo(a)pyrene	252.00	24.784	24.784	(0.996)	56750	50.0	47.3
*	135 Perylene-d12	264.00	24.889	24.889	(1.000)	42713	40.0	
	138 Indeno(1,2,3-cd)pyrene	276.00	26.827	26.827	(1.078)	46998	50.0	46.7
	139 Dibenz(a,h)anthracene	278.00	26.851	26.851	(1.079)	37659	50.0	46.1
	140 Benzo(g,h,i)perylene	276.00	27.315	27.315	(1.097)	39100	50.0	47.5

QC Flag Legend

M - Compound response manually integrated.

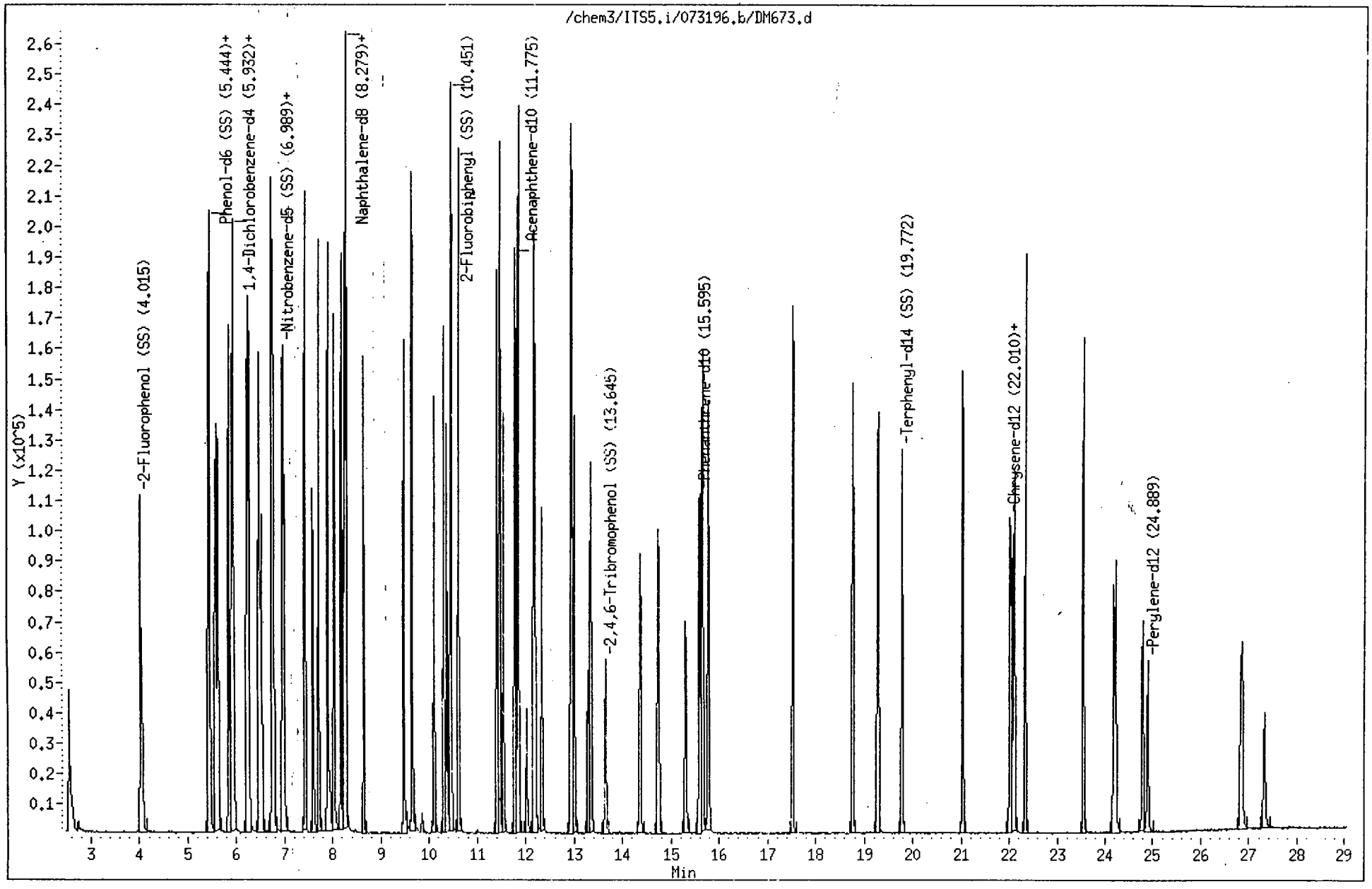
Data File: /chem3/ITS5.i/073196.b/DM673.d
Date : 31-JUL-1996 09:08
Client ID: SSTD050 AB396-55-2
Sample Info: ITS5 Calibration Standard (exp 9/96)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

320



Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM674.d
Lab Smp Id: ANLN050 AB396-56-2 Client Smp ID: ANLN050 AB396-56-2
Inj Date : 31-JUL-1996 09:44
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Aniline Calibration Std (exp 5/97)
Misc Info : 50ug/mL 03-12-96 AB396-56-2 BTL# 3
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 11:42 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 09:44 Cal File: DM674.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: ANILINE_50.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
12 Aniline	93.00	5.455	5.455	(0.923)	180753	50.0	50.2
45 4-Chloroaniline	127.00	8.482	8.482	(1.030)	140275	50.0	53.5
62 2-Nitroaniline	65.00	10.953	10.953	(0.930)	73930	50.0	48.9(M)
69 3-Nitroaniline	138.00	11.811	11.811	(1.003)	57527	50.0	50.1
83 4-Nitroaniline	138.00	13.191	13.191	(1.120)	51352	50.0	50.5
* 16 1,4-Dichlorobenzene-d4	152.00	5.908	5.909	(1.000)	69807	40.0	
* 42 Naphthalene-d8	136.00	8.239	8.244	(1.000)	234057	40.0	
* 67 Acenaphthene-d10	164.00	11.776	11.775	(1.000)	117799	40.0	
* 101 Phenanthrene-d10	188.00	15.592	15.584	(1.000)	163675	40.0	
* 126 Chrysene-d12	240.00	22.053	22.045	(1.000)	102626	40.0	
* 135 Perylene-d12	264.00	24.897	24.889	(1.000)	81468	40.0	
114 Benzidine	184.00	19.211	19.211	(0.871)	94670	50.0	49.4
125 3,3'-Dichlorobenzidine	252.00	22.065	22.065	(1.001)	54175	50.0	49.0
106 Carbazole	167.00	16.323	16.323	(1.047)	232474	50.0	51.2
87 1,2-Diphenylhydrazine	77.00	13.412	13.412	(0.860)	251208	50.0	49.6

QC Flag Legend

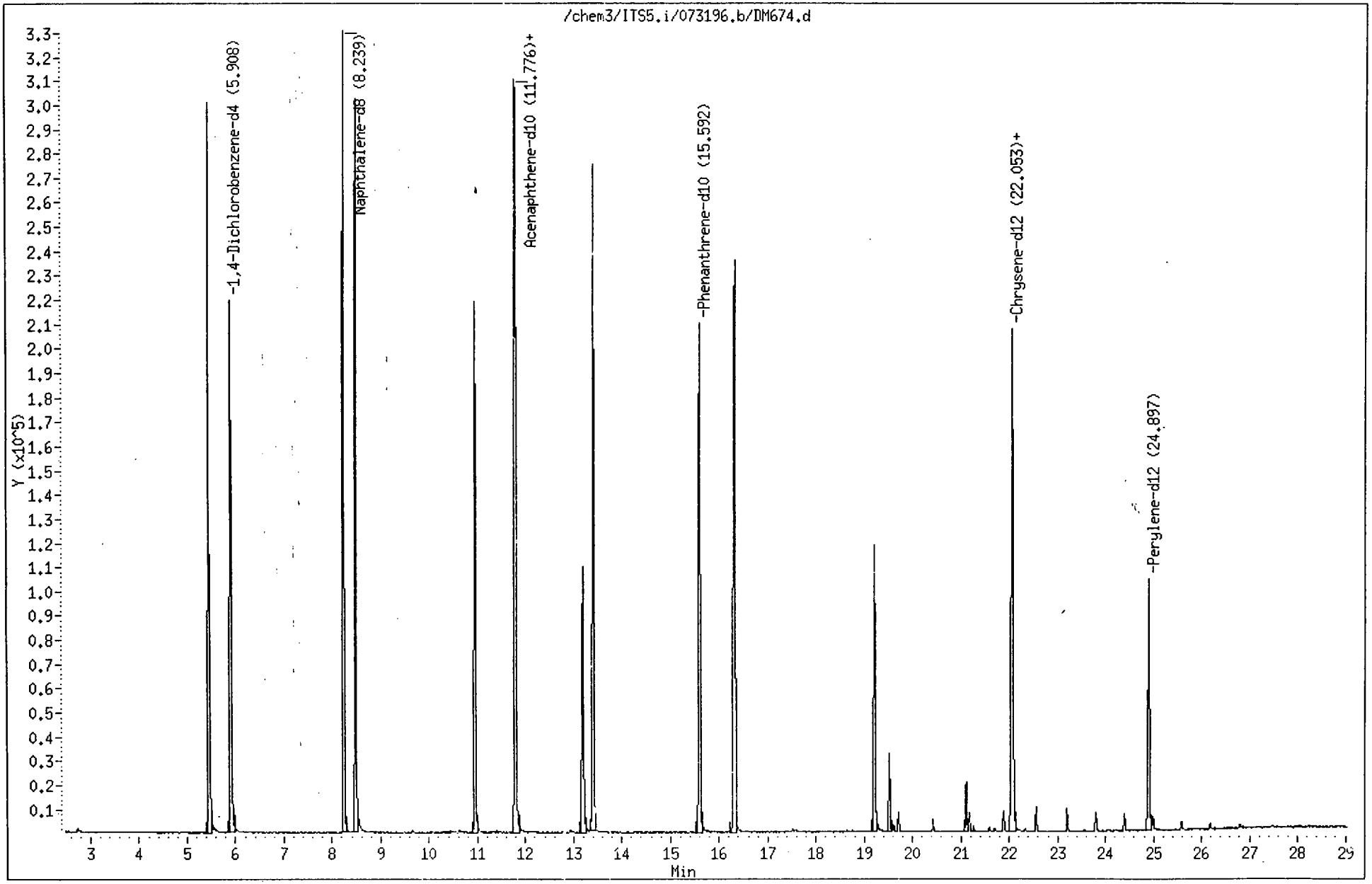
M - Compound response manually integrated.

Data File: /chem3/ITS5.i/073196.b/DM674.d
Date : 31-JUL-1996 09:44
Client ID: ANLN050 AB396-56-2
Sample Info: ITS5 Aniline Calibration Std (exp 5/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



Inchcape Testing Services - Dallas

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-1996 11:57
End Cal Date : 30-JUL-1996 20:48
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem3/ITS5.i/073196.b/abn5.m
Cal Date : 02-Aug-1996 12:00 wswinger
Curve Type : Average

Calibration File Names:
Level 1: /chem3/ITS5.i/073096.b/DM667.d
Level 2: /chem3/ITS5.i/073096.b/DM668.d
Level 3: /chem3/ITS5.i/073096.b/DM670.d
Level 4: /chem3/ITS5.i/073096.b/DM671.d
Level 5: /chem3/ITS5.i/073096.b/DM669.d

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD
1 N-Nitrosodimethylamine	1.09185	0.98835	1.14548	1.13715	1.10063	1.09269	5.736
2 Pyridine	1.66448	1.67182	1.66456	1.41377	1.59746	1.60242	6.846
3 2-Picoline	1.78255	1.39566	1.42696	1.39101	1.36321	1.47188	11.899
4 N-Nitrosomethylethylamine	0.68851	0.60547	0.61982	0.60466	0.60111	0.62391	5.900
5 Methyl methanesulfonate	1.04428	1.02482	1.00914	0.99665	0.97639	1.01026	2.573
7 N-Nitrosodiethylamine	0.72472	0.64221	0.65738	0.61145	0.59585	0.64632	7.755
8 Ethyl methanesulfonate	1.34164	1.26502	1.30450	1.27546	1.23107	1.28354	3.254
9 Pentachloroethane	0.63104	0.62206	0.60982	0.59931	0.58327	0.60910	3.086
11 Phenol	1.94753	1.69424	1.74812	1.67296	1.65116	1.74280	6.884
12 Aniline	2.42151	2.15516	2.06330	1.90577	1.75919	2.06099	12.227
13 Bis(2-Chloroethyl)Ether	1.73111	1.53769	1.57850	1.53879	1.48499	1.57422	5.958
14 2-Chlorophenol	1.59944	1.36884	1.49974	1.44977	1.40708	1.46497	6.116
15 1,3-Dichlorobenzene	1.73183	1.46996	1.57374	1.47912	1.40058	1.53105	8.363
17 1,4-Dichlorobenzene	1.77638	1.51811	1.54657	1.45301	1.35755	1.53032	10.165
18 Benzyl alcohol	0.94001	0.82739	0.83008	0.81226	0.73846	0.82964	8.693
19 1,2-Dichlorobenzene	1.67459	1.40508	1.43718	1.28283	1.12982	1.38590	14.545
20 2-Methylphenol	1.30441	1.12115	1.17435	1.14368	1.07943	1.16460	7.339
21 Bis(2-Chloroisopropyl)ether	2.15609	1.99203	2.13733	2.09920	2.01346	2.07962	3.534
22 N-Nitrosopyrrolidine	0.71027	0.63715	0.69074	0.70919	0.69203	0.68788	4.334
23 Acetophenone	1.84443	1.74796	1.78268	1.73736	1.63259	1.74900	4.422
24 N-Nitrosomorpholine	1.02475	0.83134	0.86430	0.80367	0.74984	0.85478	12.151
25 o-Toluidine	2.21623	1.79789	1.76292	1.59916	1.41665	1.75857	16.901
26 N-Nitroso-di-n-propylamine	1.11248	1.04587	0.95396	0.97215	1.00254	1.01740	6.244
27 4-Methylphenol	1.30008	1.12526	1.07909	0.96830	0.82183	1.05891	16.853
28 Hexachloroethane	0.78385	0.67826	0.62292	0.53906	0.46163	0.61714	20.148
30 m,p-Cresol	1.34072	1.20768	1.19086	1.06634	0.98992	1.15911	11.701
31 Nitrobenzene	0.49219	0.39215	0.43990	0.39734	0.38449	0.42121	10.717

W. S. Wingert Aug. 2, 1996
ANALYST Date

Inchcape Testing Services - Dallas

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-1996 11:57
End Cal Date : 30-JUL-1996 20:48
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem3/ITS5.i/073196.b/abn5.m
Cal Date : 02-Aug-1996 12:00 wswinger
Curve Type : Average

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD	
32 N-Nitrosopiperidine	0.21066	0.20704	0.20677	0.19724	0.19182	0.20271	3.876	
33 Isophorone	0.87471	0.77075	0.84078	0.80089	0.79937	0.81730	4.972	
34 2-Nitrophenol	0.24887	0.20637	0.23141	0.21290	0.20934	0.22178	8.121	
35 2,4-Dimethylphenol	0.30745	0.31130	0.26707	0.25317	0.26472	0.28074	9.509	
36 Bis(2-Chloroethoxy)methane	0.58436	0.50151	0.52732	0.49348	0.46719	0.51477	8.629	
37 Triethyl thiophosphate	0.16514	0.15799	0.15119	0.13757	0.12420	0.14722	11.141	
38 a,a-Dimethylphenylethylamine	1.08070	0.91149	1.02199	1.01761	0.88233	0.98282	8.438	
39 2,4-Dichlorophenol	0.34115	0.28393	0.30225	0.26827	0.25818	0.29076	11.256	
40 Benzoic acid	0.12622	0.15392	0.21759	0.21510	0.21623	0.18581	23.088	
41 1,2,4-Trichlorobenzene	0.37551	0.29827	0.31666	0.27956	0.26417	0.30684	14.066	
43 Naphthalene	1.19242	0.96051	0.95709	0.78394	0.72382	0.92356	19.830	
44 Hexachloropropene	0.22823	0.24854	0.22669	0.22437	0.22243	0.23005	4.595	
45 4-Chloroaniline	0.55534	0.47656	0.42914	0.39699	0.38072	0.44775	15.722	
46 2,6-Dichlorophenol	0.32564	0.33827	0.31879	0.29013	0.27597	0.30976	8.346	
47 Hexachlorobutadiene	0.20788	0.16404	0.17292	0.14998	0.14101	0.16717	15.485	
48 p-Phenylenediamine	0.66866	0.50138	0.72292	0.68614	0.62594	0.64101	13.337	
49 N-Nitrosodibutylamine	0.28214	0.25971	0.27173	0.25550	0.24342	0.26250	5.688	
50 4-Chloro-3-methylphenol	0.35100	0.31060	0.32425	0.30596	0.29887	0.31814	6.468	
51 Isosafrole	0.27450	0.27400	0.26165	0.23968	0.23287	0.25654	7.544	
52 Safrole	0.24740	0.27486	0.30515	0.26898	0.26657	0.27259	7.671	
53 2-Methylnaphthalene	0.67665	0.58679	0.57867	0.51501	0.48719	0.56886	12.920	
54 1,2,4,5-Tetrachlorobenzene	0.33935	0.33244	0.31520	0.28998	0.28301	0.31199	8.016	
55 Hexachlorocyclopentadiene	0.39754	0.35319	0.37360	0.35020	0.32925	0.36075	7.174	
56 2,4,6-Trichlorophenol	0.46993	0.37363	0.40708	0.37500	0.35109	0.39535	11.691	
57 2,4,5-Trichlorophenol	0.51640	0.40303	0.41145	0.38016	0.35579	0.41336	14.886	
59 2-Chloronaphthalene	1.44553	1.12326	1.18329	1.06919	0.99934	1.16412	14.716	
60 1-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
61 1,4-Naphthoquinone	0.40553	0.45979	0.46076	0.43424	0.42571	0.43721	5.376	
62 2-Nitroaniline	0.55354	0.48662	0.50808	0.52270	0.49767	0.51372	5.048	
63 m-Dinitrobenzene	0.16876	0.22777	0.24114	0.24792	0.24088	0.22530	14.396	
64 Dimethyl phthalate	1.57873	1.28874	1.39738	1.29100	1.23156	1.35748	10.124	
65 Acenaphthylene	2.27206	1.81742	1.88712	1.64319	1.42505	1.80897	17.383	
66 2,6-Dinitrotoluene	0.36730	0.31457	0.36405	0.34655	0.33826	0.34614	6.175	
68 Acenaphthene	1.35986	1.08420	1.12492	1.00250	0.92928	1.10015	14.870	

Inchcape Testing Services - Dallas

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-1996 11:57
End Cal Date : 30-JUL-1996 20:48
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem3/ITS5.i/073196.b/abn5.m
Cal Date : 02-Aug-1996 12:00 wswinger
Curve Type : Average

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD	
69 3-Nitroaniline	0.40946	0.36869	0.39271	0.39084	0.38703	0.38975	3.739	
70 2,4-Dinitrophenol	0.15022	0.13902	0.21142	0.21403	0.22263	0.18746	21.086	
71 Dibenzofuran	1.83932	1.49422	1.54516	1.40500	1.29631	1.51600	13.456	
72 4-Nitrophenol	0.14874	0.11067	0.16618	0.15945	0.16915	0.15084	15.768	
73 Pentachlorobenzene	0.56714	0.53330	0.51652	0.48842	0.48560	0.51820	6.527	
74 2,4-Dinitrotoluene	0.48657	0.39451	0.48452	0.45783	0.45687	0.45606	8.155	
75 2-Naphthylamine	0.93979	0.87966	0.83324	0.72555	0.67594	0.81084	13.417	
76 1-Naphthylamine	1.12744	1.10943	1.00724	0.88328	0.82004	0.98948	13.720	
77 2,3,4,6-Tetrachlorophenol	0.29351	0.33538	0.33742	0.32748	0.32060	0.32288	5.489	
78 Diethyl phthalate	1.51749	1.22988	1.27368	1.11711	1.01594	1.23082	15.368	
79 Fluorene	1.40639	1.10349	1.11658	0.97857	0.86633	1.09427	18.467	
80 4-Chlorophenylphenyl ether	0.63880	0.51925	0.56332	0.50937	0.47532	0.54121	11.631	
81 5-Nitro-o-toluidine	0.25735	0.31377	0.29920	0.26857	0.27767	0.28331	8.093	
82 Thionazin	0.39638	0.39318	0.36789	0.34552	0.32758	0.36611	8.149	
83 4-Nitroaniline	0.36649	0.30910	0.35283	0.35111	0.34581	0.34507	6.232	
84 4,6-Dinitro-2-methylphenol	0.15790	0.15227	0.20130	0.19312	0.18874	0.17867	12.361	
85 N-Nitrosodiphenylamine	0.65538	0.53535	0.58117	0.52514	0.49727	0.55886	11.065	
86 N-Nitroso- & Diphenylamine	1.85068	1.75443	1.65897	1.48124	1.40476	1.63002	11.390	
87 1,2-Diphenylhydrazine	1.39493	1.28417	1.20781	1.19630	1.10763	1.23817	8.699	
89 Sulfotep	0.28624	0.28232	0.26774	0.25219	0.23685	0.26507	7.812	
90 1,3,5-Trinitrobenzene	0.08005	0.17647	0.21719	0.23960	0.22740	0.18814	34.501	<-
91 Diallate	0.30288	0.32122	0.32843	0.31042	0.31954	0.31650	3.145	
92 Phorate	0.87631	0.89505	0.88254	0.85479	0.82449	0.86664	3.197	
93 4-Bromophenylphenyl ether	0.23059	0.20926	0.22458	0.20448	0.19655	0.21309	6.639	
94 Phenacetin	0.50625	0.63898	0.63709	0.59023	0.56544	0.58760	9.400	
95 Hexachlorobenzene	0.43107	0.35046	0.39694	0.37160	0.35782	0.38158	8.611	
96 Dimethoate	0.44399	0.45163	0.38876	0.32420	0.29346	0.38041	18.543	
97 4-Aminobiphenyl	1.06225	1.11513	1.07958	0.96192	0.89086	1.02195	9.077	
98 Pentachlorophenol	0.18121	0.16677	0.20463	0.19341	0.18854	0.18691	7.552	
99 Pentachloronitrobenzene	0.11225	0.12937	0.13230	0.12721	0.12540	0.12531	6.175	
100 Pronamide	0.24718	0.26670	0.27477	0.26419	0.25980	0.26253	3.871	
102 Phenanthrene	1.35460	1.13470	1.22730	1.10981	1.05780	1.17684	9.926	
103 Anthracene	1.36855	1.15179	1.20522	1.11296	1.05030	1.17777	10.248	
104 Disolfonton	0.53981	0.54208	0.52669	0.52884	0.50322	0.52813	2.924	

Inchcape Testing Services - Dallas

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-1996 11:57
End Cal Date : 30-JUL-1996 20:48
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem3/ITS5.i/073196.b/abn5.m
Cal Date : 02-Aug-1996 12:00 wswinger
Curve Type : Average

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD	
105 Dinoseb	0.08093	0.15370	0.18295	0.20133	0.20989	0.16576	31.418	<-
106 Carbazole	1.27781	1.08499	1.09354	1.07353	1.02372	1.11072	8.755	
107 Methyl parathion	0.21206	0.24808	0.21512	0.20343	0.17813	0.21137	11.899	
108 Di-n-butylphthalate	1.77702	1.56669	1.69385	1.38749	1.24939	1.53489	14.130	
109 4-Nitroquinoline-1-oxide	0.02181	0.05450	0.06516	0.07247	0.06998	0.05678	36.506	<-
110 Parathion	0.18904	0.22550	0.21874	0.21375	0.20318	0.21004	6.803	
111 Methapyrilene	0.48332	0.43256	0.38839	0.31665	0.26980	0.37815	22.767	
112 Isodrin	0.15104	0.15035	0.15094	0.14414	0.14346	0.14798	2.594	
113 Fluoranthene	1.32851	1.07064	1.18183	1.05429	1.01265	1.12958	11.295	
114 Benzidine	0.71341	0.71604	0.77748	0.78083	0.74456	0.74647	4.323	
115 Pyrene	2.11354	1.65830	2.03107	1.94702	1.77129	1.90424	9.820	
117 Aromite	0.03892	0.05193	0.05583	0.05676	0.05378	0.05144	14.086	<-
118 p-(Dimethylamino)azobenzene	0.58131	0.59808	0.56741	0.56849	0.56888	0.57683	2.282	
119 Chlorobenzilate	0.47823	0.47258	0.48869	0.45034	0.46506	0.47098	3.059	
120 Kepone	0.11534	0.13138	0.14063	0.13158	0.13948	0.13168	7.671	
121 3,3'-Dimethylbenzidine	0.31196	0.34257	0.30325	0.23600	0.20137	0.27903	20.890	
122 Butyl benzyl phthalate	1.10296	0.89573	1.11703	1.08785	1.01951	1.04462	8.736	
123 2-Actylaminofluorene	0.32094	0.43017	0.45045	0.39196	0.39509	0.39772	12.426	
124 Benzo(a)anthracene	1.32900	1.14183	1.28576	1.24056	1.18320	1.23607	6.108	
125 3,3'-Dichlorobenzidine	0.42490	0.44191	0.42917	0.42945	0.42802	0.43069	1.516	
127 Chrysene	1.31461	1.10596	1.21968	1.12244	1.06942	1.16642	8.551	
128 Bis(2-ethylhexyl)phthalate	1.33825	1.19147	1.38894	1.34368	1.26805	1.30608	5.918	
129 Di-n-octylphthalate	2.88555	2.26843	2.83213	2.63080	2.51307	2.62600	9.529	
130 Benzo(b)fluoranthene	1.43411	1.17033	1.36467	1.26936	1.26838	1.30137	7.771	
131 7,12-Dimethylbenz(a)anthracen	0.43281	0.40694	0.47043	0.43653	0.46348	0.44204	5.782	
132 Benzo(k)fluoranthene	1.72803	1.43788	1.51556	1.49009	1.46560	1.52743	7.580	
133 Hexachlorophene	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
134 Benzo(a)pyrene	1.16464	1.04964	1.16502	1.12097	1.11686	1.12343	4.204	
136 3-Methylcholanthrene	0.44601	0.46935	0.47706	0.46960	0.49539	0.47148	3.764	
137 Dibenz[a,j]acridine	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
138 Indeno(1,2,3-cd)pyrene	0.90878	0.86747	1.01722	1.00688	0.91056	0.94218	7.023	
139 Dibenz(a,h)anthracene	0.71319	0.70201	0.82764	0.82728	0.75562	0.76515	7.880	
140 Benzo(g,h,i)perylene	0.76429	0.71529	0.82250	0.81958	0.72901	0.77013	6.467	

Inchcape Testing Services - Dallas

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-1996 11:57
End Cal Date : 30-JUL-1996 20:48
Quant Method : ISTD
Target Version : 3.10
Integrator : HP RTE
Method file : /chem3/ITS5.i/073196.b/abn5.m
Cal Date : 02-Aug-1996 12:00 wswinger
Curve Type : Average

Compound	20 Level 1	50 Level 2	80 Level 3	120 Level 4	160 Level 5	RRF	% RSD
$ 6 2-Fluorophenol (SS)	1.65636	1.40507	1.58708	1.55055	1.50125	1.54006	6.124
$ 10 Phenol-d6 (SS)	1.96064	1.65682	1.79930	1.76497	1.69501	1.77535	6.636
$ 29 Nitrobenzene-d5 (SS)	0.52107	0.43576	0.48131	0.44596	0.43720	0.46426	7.912
$ 58 2-Fluorobiphenyl (SS)	1.70636	1.31017	1.32936	1.20052	1.10470	1.33022	17.207
$ 88 2,4,6-Tribromophenol (SS)	0.20357	0.15883	0.20424	0.19395	0.18893	0.18990	9.765
$ 116 Terphenyl-d14 (SS)	1.37530	1.07099	1.32526	1.25914	1.14558	1.23526	10.185

Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM675.d
Lab Smp Id: AMIN160 AB396-45-2 Client Smp ID: AMIN160 AB396-45-2
Inj Date : 31-JUL-1996 10:21
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Amine Group Std. (exp 1/97)
Misc Info : 160ug/mL 02-07-96 AB396-45-2 BTL# 4
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 09:08 Cal File: DM673.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Amine.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 2-Picoline	93.00	3.264	3.284	(0.553)	235966	160	160(Q)
4 N-Nitrosomethylethylamine	88.00	3.473	3.482	(0.589)	104049	160	160(Q)
7 N-Nitrosodiethylamine	102.00	4.379	4.375	(0.742)	103140	160	160(Q)
* 16 1,4-Dichlorobenzene-d4	152.00	5.902	5.903	(1.000)	43274	40.0	
22 N-Nitrosopyrrolidine	100.00	6.737	6.690	(1.142)	119788	160	160(Q)
24 N-Nitrosomorpholine	56.00	6.772	5.910	(1.147)	129794	160	160(Q)
25 o-Toluidine	106.00	6.796	6.682	(1.151)	245216	160	160(Q)
26 N-Nitroso-di-n-propylamine	70.00	6.784	6.835	(1.149)	134650	160	128(Q)
32 N-Nitrosopiperidine	114.00	7.295	5.916	(0.885)	106848	160	160(Q)
37 Triethyl thiophosphate	198.00	7.922	7.908	(0.961)	69179	160	160(Q)
38 a,a-Dimethylphenylethylamine	58.00	7.945	7.943	(0.963)	491472	160	160(M)
* 42 Naphthalene-d8	136.00	8.247	8.248	(1.000)	139254	40.0	
48 p-Phenylenediamine	108.00	9.176	8.246	(1.555)	108347	160	160(Q)
49 N-Nitrosodibutylamine	84.00	9.211	9.196	(1.117)	135591	160	160(Q)
* 67 Acenaphthene-d10	164.00	11.775	11.786	(1.000)	74480	40.0	
75 2-Naphthylamine	143.00	12.378	12.373	(1.051)	201377	160	160(QH)
76 1-Naphthylamine	143.00	12.553	12.535	(1.066)	244305	160	160(Q)
81 5-Nitro-o-toluidine	152.00	13.169	13.127	(1.118)	82722	160	160(Q)
82 Thionazin	97.00	13.169	13.127	(1.118)	97593	160	160(Q)
86 N-Nitroso- & Diphenylamine	169.00	13.379	13.348	(1.136)	418507	160	160(Q)
89 Sulfotep	97.00	14.204	14.183	(1.206)	70563	160	160(Q)
92 Phorate	75.00	14.367	14.345	(1.220)	245631	160	160(Q)
94 Phenacetin	108.00	14.507	14.427	(1.232)	168457	160	160(Q)
96 Dimethoate	87.00	14.913	14.867	(1.267)	87427	160	160(Q)
97 4-Aminobiphenyl	169.00	15.204	15.169	(1.291)	265404	160	160(Q)
* 101 Phenanthrene-d10	188.00	15.599	15.592	(1.000)	94013	40.0	
104 Disolfonton	88.00	15.890	14.758	(1.019)	189238	160	160(Q)
107 Methyl parathion	109.00	16.900	16.898	(1.083)	66987	160	160(Q)
109 4-Nitroquinoline-1-oxide	190.00	17.876	17.860	(1.146)	26316	160	160(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
110 Parathion	97.00	17.958	17.942	(1.151)	76407	160	160(Q)
111 Methapyrilene	58.00	18.202	18.185	(1.167)	101460	160	160(Q)
118 p-(Dimethylamino)azobenzene	120.00	20.163	20.158	(0.915)	121243	160	160(Q)
121 3,3'-Dimethylbenzidine	212.00	20.917	20.912	(1.341)	75726	160	160
123 2-Actylaminofluorene	181.00	21.509	21.481	(0.976)	84203	160	160(Q)
125 3,3'-Dichlorobenzidine	252.00	22.068	22.118	(1.001)	69178	160	127
* 126 Chrysene-d12	240.00	22.044	22.051	(1.000)	53281	40.0	
* 135 Perylene-d12	264.00	24.888	24.905	(1.000)	36848	40.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem3/ITS5.i/073196.b/DM675.d
Date : 31-JUL-1996 10:21
Client ID: AMIN160 AB396-45-2
Sample Info: ITS5 Appendix IX Amine Group Std. (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

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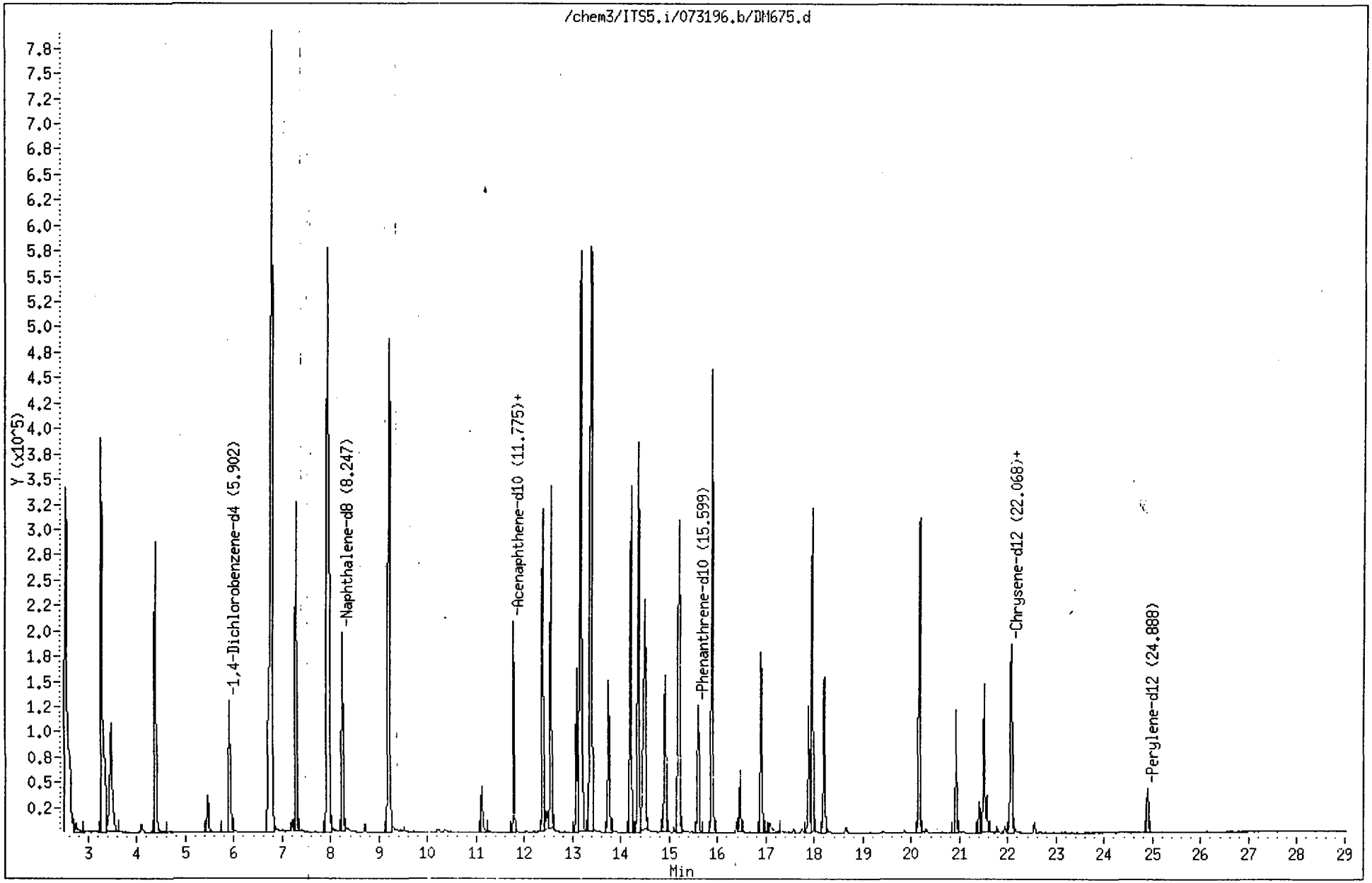


Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM676.d
Lab Smp Id: AMIN120 AB396-45-2 Client Smp ID: AMIN120 AB396-45-2
Inj Date : 31-JUL-1996 10:58
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Amine Group Std. (exp 1/97)
Misc Info : 120ug/mL 02-07-96 AB396-45-2 BTL# 5
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 09:08 Cal File: DM673.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Amine.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 2-Picoline	93.00	3.264	3.284	(0.553)	180329	120	121(Q)
4 N-Nitrosomethylethylamine	88.00	3.473	3.482	(0.589)	78387	120	120(Q)
7 N-Nitrosodiethylamine	102.00	4.378	4.375	(0.742)	79268	120	122(Q)
* 16 1,4-Dichlorobenzene-d4	152.00	5.901	5.903	(1.000)	43213	40.0	
22 N-Nitrosopyrrolidine	100.00	6.724	6.690	(1.140)	91939	120	121(Q)
24 N-Nitrosomorpholine	56.00	6.759	5.910	(1.146)	104187	120	124(Q)
25 o-Toluidine	106.00	6.783	6.682	(1.149)	207314	120	127(Q)
26 N-Nitroso-di-n-propylamine	70.00	6.771	6.835	(1.148)	105887	120	104(Q)
32 N-Nitrosopiperidine	114.00	7.282	5.916	(0.883)	82213	120	122(Q)
37 Triethyl thiophosphate	198.00	7.920	7.908	(0.961)	57343	120	126(Q)
38 a,a-Dimethylphenylethylamine	58.00	7.944	7.943	(0.963)	424159	120	128(M)
* 42 Naphthalene-d8	136.00	8.246	8.248	(1.000)	138940	40.0	
48 p-Phenylenediamine	108.00	9.174	8.246	(1.555)	88951	120	126(Q)
49 N-Nitrosodibutylamine	84.00	9.209	9.196	(1.117)	106497	120	123(Q)
* 67 Acenaphthene-d10	164.00	11.773	11.786	(1.000)	75607	40.0	
75 2-Naphthylamine	143.00	12.376	12.373	(1.051)	164569	120	124(QH)
76 1-Naphthylamine	143.00	12.550	12.535	(1.066)	200346	120	124(Q)
81 5-Nitro-o-toluidine	152.00	13.155	13.127	(1.117)	60918	120	118(Q)
82 Thionazin	97.00	13.155	13.127	(1.117)	78371	120	123(Q)
86 N-Nitroso- & Diphenylamine	169.00	13.376	13.348	(1.136)	335977	120	123(Q)
89 Sulfotep	97.00	14.201	14.183	(1.206)	57201	120	124(Q)
92 Phorate	75.00	14.364	14.345	(1.220)	193884	120	122(Q)
94 Phenacetin	108.00	14.492	14.427	(1.231)	133876	120	122(Q)
96 Dimethoate	87.00	14.910	14.867	(1.267)	73536	120	126(Q)
97 4-Aminobiphenyl	169.00	15.189	15.169	(1.290)	218184	120	125(Q)
* 101 Phenanthrene-d10	188.00	15.596	15.592	(1.000)	94532	40.0	
104 Disolfonton	88.00	15.886	14.758	(1.019)	149976	120	123(Q)
107 Methyl parathion	109.00	16.907	16.898	(1.084)	57693	120	128(Q)
109 4-Nitroquinoline-1-oxide	190.00	17.871	17.860	(1.146)	20551	120	122(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
110 Parathion	97.00	17.953	17.942	(1.151)	60619	120	123(Q)
111 Methapyrilene	58.00	18.197	18.185	(1.167)	89802	120	130(Q)
118 p-(Dimethylamino)azobenzene	120.00	20.169	20.158	(0.915)	94759	120	120(Q)
121 3,3'-Dimethylbenzidine	212.00	20.911	20.912	(1.341)	66928	120	130
123 2-Actylaminofluorene	181.00	21.504	21.481	(0.975)	65335	120	120(Q)
125 3,3'-Dichlorobenzidine	252.00	22.074	22.118	(1.001)	55055	120	102
* 126 Chrysene-d12	240.00	22.050	22.051	(1.000)	55562	40.0	
* 135 Perylene-d12	264.00	24.893	24.905	(1.000)	38740	40.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data F[illegible] /chem3/ITS5.i/073196.b/DM676.d

Date : 31-JUL-1996 10:58

Client ID: AMIN120 AB396-45-2

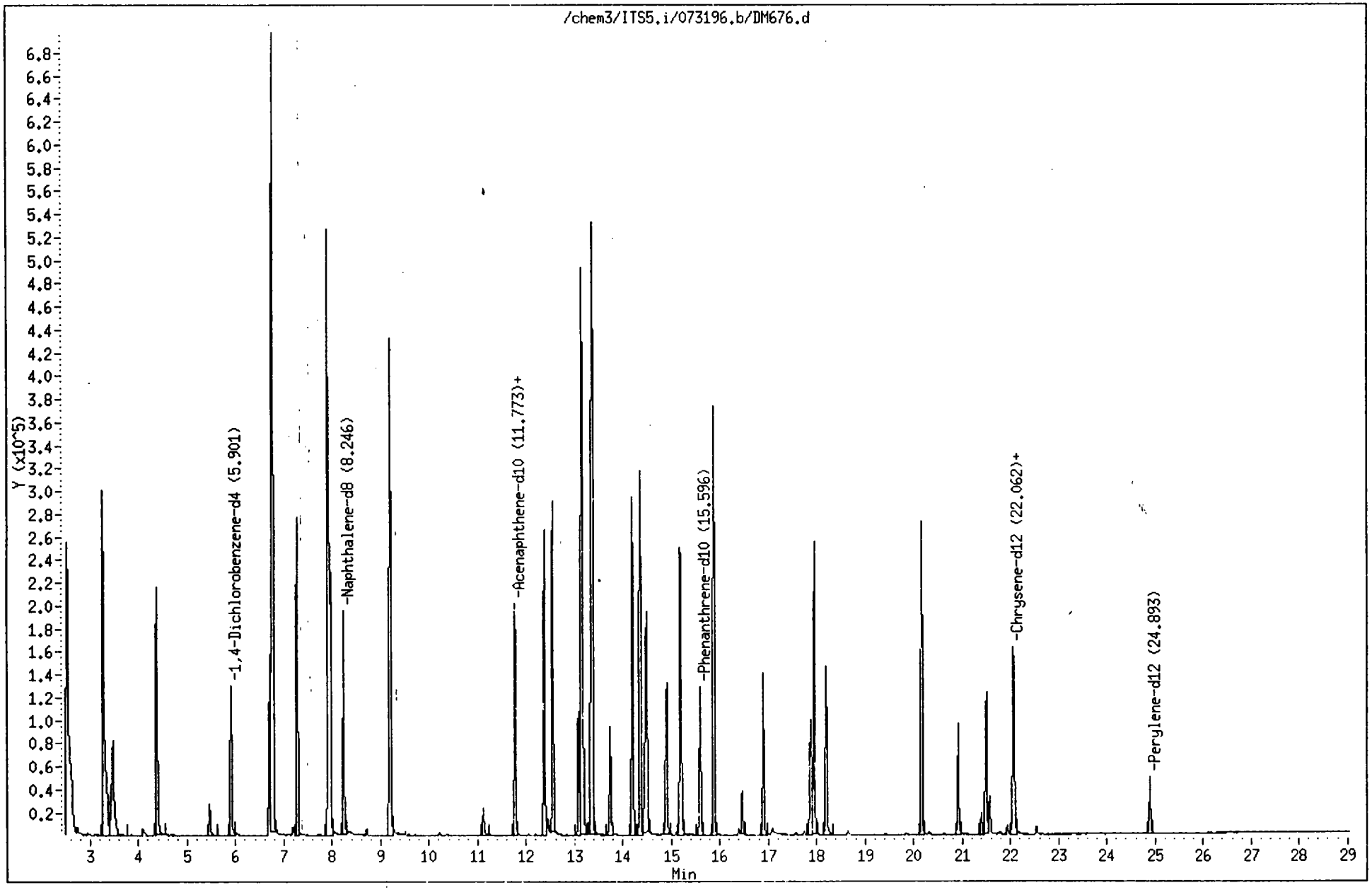
Sample Info: ITS5 Appendix IX Amine Group Std. (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW

Column diameter: 0.25



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Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM677.d
Lab Smp Id: AMIN080 AB396-45-2 Client Smp ID: AMIN080 AB396-45-2
Inj Date : 31-JUL-1996 11:35
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Amine Group Std. (exp 1/97)
Misc Info : 80ug/mL 02-07-96 AB396-45-2 BTL# 6
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 09:08 Cal File: DM673.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Amine.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 2-Picoline	93.00	3.271	3.284	(0.554)	110592	80.0	81.9(Q)
4 N-Nitrosomethylethylamine	88.00	3.469	3.482	(0.587)	48037	80.0	81.5(Q)
7 N-Nitrosodiethylamine	102.00	4.374	4.375	(0.740)	50948	80.0	84.6(Q)
* 16 1,4-Dichlorobenzene-d4	152.00	5.909	5.903	(1.000)	38751	40.0	
22 N-Nitrosopyrrolidine	100.00	6.709	6.690	(1.135)	53534	80.0	79.2(Q)
24 N-Nitrosomorpholine	56.00	6.744	5.910	(1.141)	66985	80.0	85.8(Q)
25 o-Toluidine	106.00	6.779	6.682	(1.147)	136630	80.0	88.5(Q)
26 N-Nitroso-di-n-propylamine	70.00	6.756	6.835	(1.143)	70030	80.0	77.6(Q)
32 N-Nitrosopiperidine	114.00	7.278	5.916	(0.883)	50342	80.0	83.3(Q)
37 Triethyl thiophosphate	198.00	7.916	7.908	(0.961)	36810	80.0	87.9(Q)
38 a,a-Dimethylphenylethylamine	58.00	7.940	7.943	(0.963)	248823	80.0	83.9(M)
* 42 Naphthalene-d8	136.00	8.242	8.248	(1.000)	121735	40.0	
48 p-Phenylenediamine	108.00	9.170	8.246	(1.552)	56028	80.0	85.2(Q)
49 N-Nitrosodibutylamine	84.00	9.205	9.196	(1.117)	66159	80.0	84.6(Q)
* 67 Acenaphthene-d10	164.00	11.780	11.786	(1.000)	65152	40.0	
75 2-Naphthylamine	143.00	12.371	12.373	(1.050)	108575	80.0	89.5(QH)
76 1-Naphthylamine	143.00	12.546	12.535	(1.065)	131248	80.0	89.2(Q)
81 5-Nitro-o-toluidine	152.00	13.138	13.127	(1.115)	38987	80.0	84.9(Q)
82 Thionazin	97.00	13.138	13.127	(1.115)	47938	80.0	84.8(Q)
86 N-Nitroso- & Diphenylamine	169.00	13.359	13.348	(1.134)	216171	80.0	87.6(Q)
89 Sulfotep	97.00	14.195	14.183	(1.205)	34888	80.0	84.9(Q)
92 Phorate	75.00	14.358	14.345	(1.219)	114998	80.0	82.7(Q)
94 Phenacetin	108.00	14.475	14.427	(1.229)	83015	80.0	85.3(Q)
96 Dimethoate	87.00	14.893	14.867	(1.264)	50657	80.0	92.7(Q)
97 4-Aminobiphenyl	169.00	15.183	15.169	(1.289)	140674	80.0	88.4(Q)
* 101 Phenanthrene-d10	188.00	15.590	15.592	(1.000)	86125	40.0	
104 Disolfonton	88.00	15.880	14.758	(1.019)	90723	80.0	81.1(Q)
107 Methyl parathion	109.00	16.901	16.898	(1.084)	37054	80.0	86.5(Q)
109 4-Nitroquinoline-1-oxide	190.00	17.864	17.860	(1.146)	11224	80.0	75.3(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
110 Parathion	97.00	17.946	17.942	(1.151)	37678	80.0	82.6(Q)
111 Methapyrilene	58.00	18.190	18.185	(1.167)	66900	80.0	95.6(Q)
118 p-(Dimethylamino)azobenzene	120.00	20.162	20.158	(0.915)	61617	80.0	79.9(Q)
121 3,3'-Dimethylbenzidine	212.00	20.916	20.912	(1.342)	52234	80.0	98.3
123 2-Actylaminofluorene	181.00	21.496	21.481	(0.975)	48916	80.0	87.4(Q)
125 3,3'-Dichlorobenzidine	252.00	22.066	22.118	(1.001)	40434	80.0	78.6
* 126 Chrysene-d12	240.00	22.042	22.051	(1.000)	54297	40.0	
* 135 Perylene-d12	264.00	24.886	24.905	(1.000)	42619	40.0	

QC Flag Legend

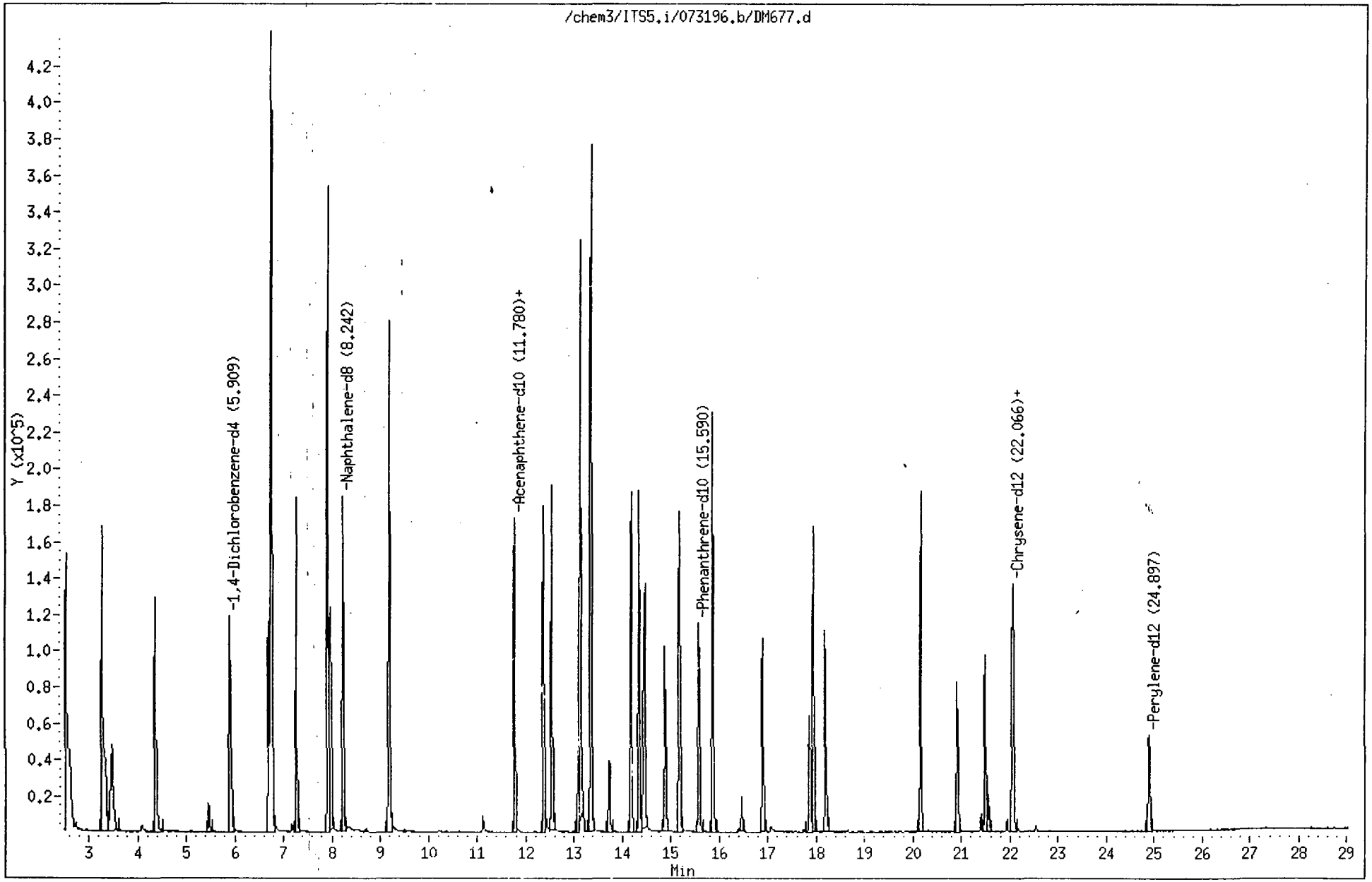
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem3/ITS5.i/073196.b/DM677.d
Date : 31-JUL-1996 11:35
Client ID: AMIN080 AB396-45-2
Sample Info: ITS5 Appendix IX Amine Group Std. (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



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Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM678.d
Lab Smp Id: AMIN050 AB396-45-2 Client Smp ID: AMIN050 AB396-45-2
Inj Date : 31-JUL-1996 12:11
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Amine Group Std. (exp 1/97)
Misc Info : 50ug/mL 02-07-96 AB396-45-2 BTL# 7
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 12:11 Cal File: DM678.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Amine.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 2-Picoline	93.00	3.273	3.284	(0.555)	70540	50.0	50.0
4 N-Nitrosomethylethylamine	88.00	3.470	3.482	(0.588)	30602	50.0	49.8
7 N-Nitrosodiethylamine	102.00	4.375	4.375	(0.742)	32459	50.0	51.2
* 16 1,4-Dichlorobenzene-d4	152.00	5.899	5.903	(1.000)	40434	40.0	
22 N-Nitrosopyrrolidine	100.00	6.699	6.690	(1.136)	32203	50.0	46.7
24 N-Nitrosomorpholine	56.00	6.745	5.910	(1.144)	42018	50.0	51.2
25 o-Toluidine	106.00	6.769	6.682	(1.147)	90870	50.0	54.7
26 N-Nitroso-di-n-propylamine	70.00	6.745	6.835	(1.144)	47203	50.0	51.4
32 N-Nitrosopiperidine	114.00	7.268	5.916	(0.882)	31408	50.0	51.6
37 Triethyl thiophosphate	198.00	7.906	7.908	(0.959)	23967	50.0	55.3
38 a,a-Dimethylphenylethylamine	58.00	8.022	7.943	(0.973)	138273	50.0	47.6(M)
* 42 Naphthalene-d8	136.00	8.243	8.248	(1.000)	121360	40.0	
48 p-Phenylenediamine	108.00	9.171	8.246	(1.555)	25341	50.0	39.5
49 N-Nitrosodibutylamine	84.00	9.194	9.196	(1.115)	39398	50.0	50.4
* 67 Acenaphthene-d10	164.00	11.768	11.786	(1.000)	61854	40.0	
75 2-Naphthylamine	143.00	12.371	12.373	(1.051)	68013	50.0	56.5(H)
76 1-Naphthylamine	143.00	12.534	12.535	(1.065)	85778	50.0	58.1
81 5-Nitro-o-toluidine	152.00	13.126	13.127	(1.115)	24260	50.0	54.1
82 Thionazin	97.00	13.126	13.127	(1.115)	30400	50.0	54.8
86 N-Nitroso- & Diphenylamine	169.00	13.347	13.348	(1.134)	135648	50.0	55.7
89 Sulfotep	97.00	14.183	14.183	(1.205)	21828	50.0	54.3
92 Phorate	75.00	14.345	14.345	(1.219)	69203	50.0	51.8
94 Phenacetin	108.00	14.450	14.427	(1.228)	49404	50.0	52.6
96 Dimethoate	87.00	14.880	14.867	(1.264)	34919	50.0	61.9
97 4-Aminobiphenyl	169.00	15.182	15.169	(1.290)	86219	50.0	55.1
* 101 Phenanthrene-d10	188.00	15.588	15.592	(1.000)	81666	40.0	
104 Disolfonton	88.00	15.867	14.758	(1.018)	55337	50.0	51.6
107 Methyl parathion	109.00	16.899	16.898	(1.084)	25325	50.0	58.7
109 4-Nitroquinoline-1-oxide	190.00	17.862	17.860	(1.146)	5563	50.0	41.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
110 Parathion	97.00	17.944	17.942	(1.151)	23020	50.0	52.4
111 Methapyrilene	58.00	18.188	18.185	(1.167)	44157	50.0	61.5
118 p-(Dimethylamino)azobenzene	120.00	20.159	20.158	(0.914)	37714	50.0	51.9
121 3,3'-Dimethylbenzidine	212.00	20.913	20.912	(1.342)	34970	50.0	63.2
123 2-Actylaminofluorene	181.00	21.482	21.481	(0.974)	27126	50.0	51.6
125 3,3'-Dichlorobenzidine	252.00	22.063	22.118	(1.001)	24107	50.0	52.1
* 126 Chrysene-d12	240.00	22.051	22.051	(1.000)	50447	40.0	
* 135 Perylene-d12	264.00	24.895	24.905	(1.000)	41697	40.0	

QC Flag Legend

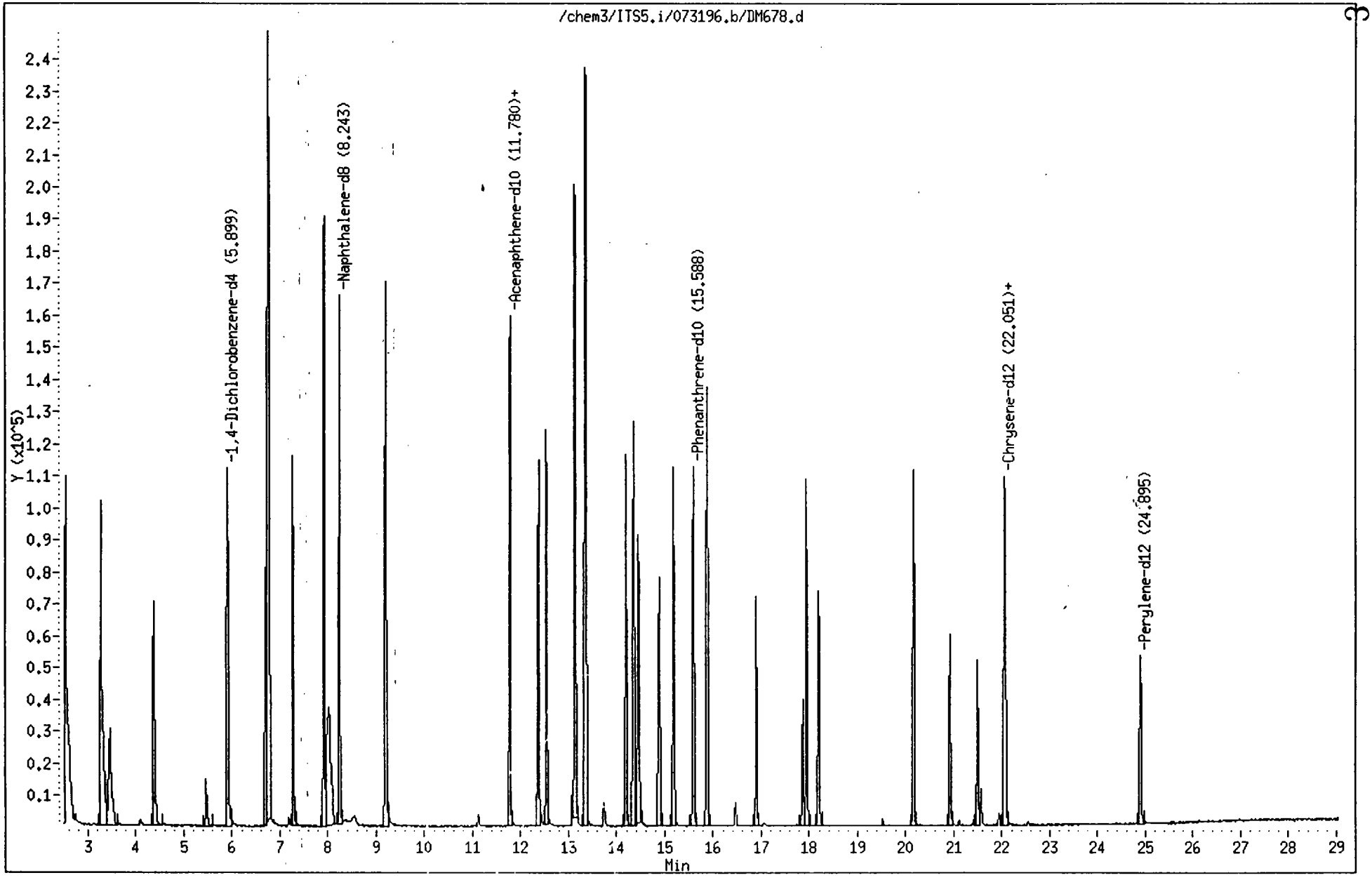
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File /chem3/ITS5.i/073196.b/DM678.d
Date : 31-JUL-1996 12:11
Client ID: AMIN050 AB396-45-2
Sample Info: ITS5 Appendix IX Amine Group Std. (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM679.d
Lab Smp Id: AMIN020 AB396-45-2 Client Smp ID: AMIN020 AB396-45-2
Inj Date : 31-JUL-1996 12:48
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Amine Group Std. (exp 1/97)
Misc Info : 20ug/mL 02-07-96 AB396-45-2 BTL# 8
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 12:11 Cal File: DM678.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Amine.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 2-Picoline	93.00	3.284	3.284	(0.557)	33675	20.0	24.2
4 N-Nitrosomethylethylamine	88.00	3.482	3.482	(0.591)	13007	20.0	22.1
7 N-Nitrosodiethylamine	102.00	4.375	4.375	(0.742)	13691	20.0	22.4
* 16 1,4-Dichlorobenzene-d4	152.00	5.896	5.903	(1.000)	37783	40.0	
22 N-Nitrosopyrrolidine	100.00	6.690	6.690	(1.135)	13418	20.0	20.6
24 N-Nitrosomorpholine	56.00	6.736	5.910	(1.143)	19359	20.0	24.0
25 o-Toluidine	106.00	6.759	6.682	(1.146)	41868	20.0	25.2
26 N-Nitroso-di-n-propylamine	70.00	6.748	6.835	(1.145)	22564	20.0	25.8
32 N-Nitrosopiperidine	114.00	7.270	5.916	(0.883)	13648	20.0	20.8
37 Triethyl thiophosphate	198.00	7.908	7.908	(0.961)	10699	20.0	22.4
38 a,a-Dimethylphenylethylamine	58.00	7.943	7.943	(0.965)	70015	20.0	22.0
* 42 Naphthalene-d8	136.00	8.233	8.248	(1.000)	129573	40.0	
48 p-Phenylenediamine	108.00	9.172	8.246	(1.556)	12632	20.0	20.9
49 N-Nitrosodibutylamine	84.00	9.196	9.196	(1.117)	18279	20.0	21.5
* 67 Acenaphthene-d10	164.00	11.769	11.786	(1.000)	69313	40.0	
75 2-Naphthylamine	143.00	12.373	12.373	(1.051)	32570	20.0	23.2(H)
76 1-Naphthylamine	143.00	12.535	12.535	(1.065)	39073	20.0	22.8
81 5-Nitro-o-toluidine	152.00	13.127	13.127	(1.115)	8919	20.0	18.2
82 Thionazin	97.00	13.127	13.127	(1.115)	13737	20.0	21.6
86 N-Nitroso- & Diphenylamine	169.00	13.348	13.348	(1.134)	64138	20.0	22.7
89 Sulfotep	97.00	14.183	14.183	(1.205)	9920	20.0	21.6
92 Phorate	75.00	14.345	14.345	(1.219)	30370	20.0	20.2
94 Phenacetin	108.00	14.427	14.427	(1.226)	17545	20.0	17.2
96 Dimethoate	87.00	14.867	14.867	(1.263)	15387	20.0	23.3
97 4-Aminobiphenyl	169.00	15.169	15.169	(1.289)	36814	20.0	20.8
* 101 Phenanthrene-d10	188.00	15.587	15.592	(1.000)	87031	40.0	
104 Disolfonton	88.00	15.866	14.758	(1.018)	23490	20.0	20.4
107 Methyl parathion	109.00	16.898	16.898	(1.084)	9228	20.0	20.1
109 4-Nitroquinoline-1-oxide	190.00	17.860	17.860	(1.146)	949	20.0	7.68(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
110 Parathion	97.00	17.942	17.942	(1.151)	8226	20.0	18.0
111 Methapyrilene	58.00	18.185	18.185	(1.167)	21032	20.0	25.6
118 p-(Dimethylamino)azobenzene	120.00	20.158	20.158	(0.914)	13324	20.0	20.2
121 3,3'-Dimethylbenzidine	212.00	20.912	20.912	(1.342)	13575	20.0	22.4
123 2-Actylaminofluorene	181.00	21.481	21.481	(0.974)	7356	20.0	16.1
125 3,3'-Dichlorobenzidine	252.00	22.062	22.118	(1.001)	7296	20.0	18.4
* 126 Chrysene-d12	240.00	22.050	22.051	(1.000)	45841	40.0	
* 135 Perylene-d12	264.00	24.893	24.905	(1.000)	33687	40.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

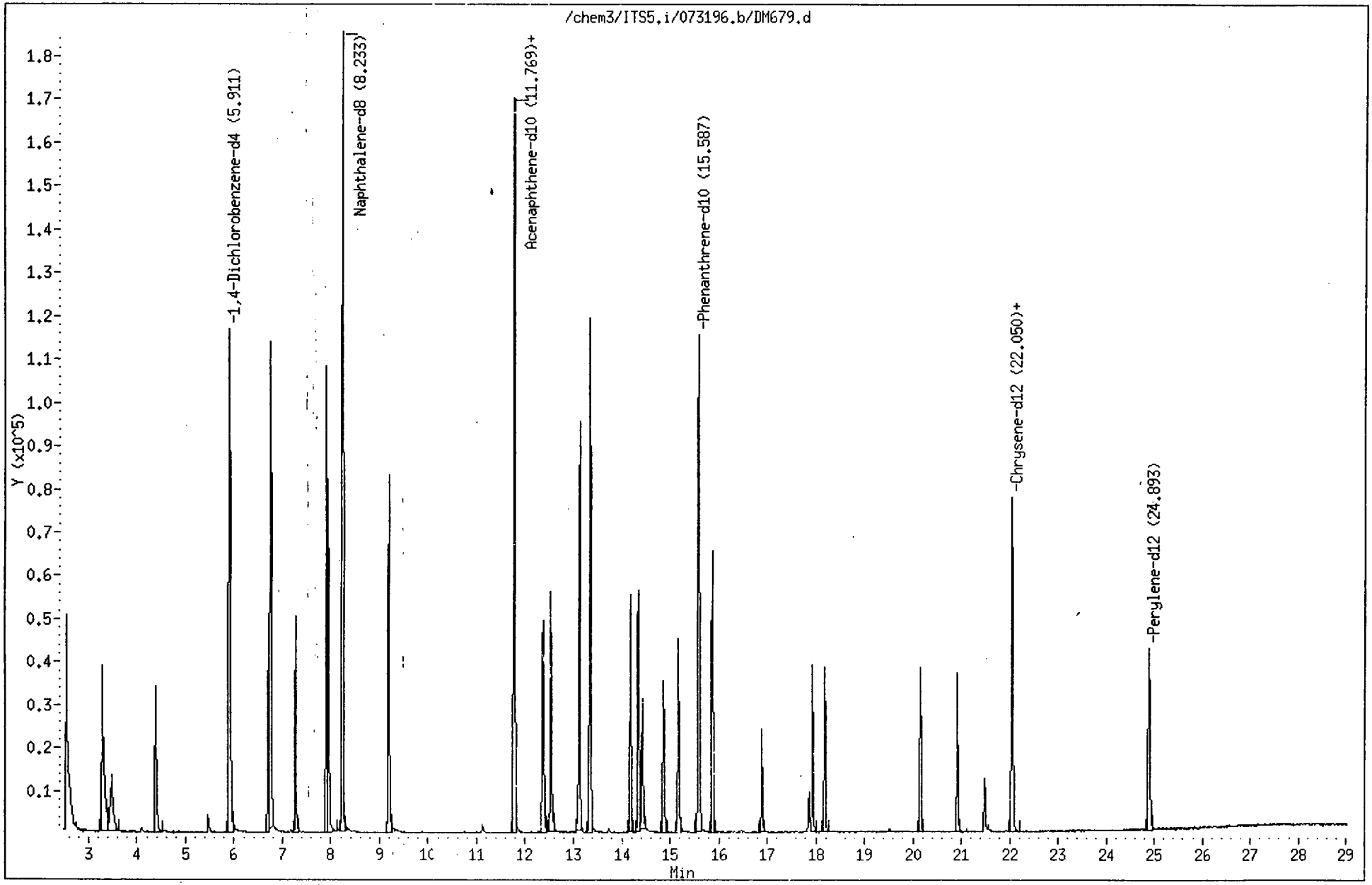
Data File: /chem3/ITS5.i/073196.b/DM679.d
Date : 31-JUL-1996 12:48
Client ID: AMIN020 AB396-45-2
Sample Info: ITS5 Appendix IX Amine Group Std. (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

342



Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM680.d
Lab Smp Id: PHEN160 AB396-44-2 Client Smp ID: PHEN160 AB396-44-2
Inj Date : 31-JUL-1996 13:25
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Phenols Mix Std (exp 1/97)
Misc Info : 160ug/mL 02-07-96 AB396-44-2 BTL# 9
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 12:11 Cal File: DM678.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Phen.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 16 1,4-Dichlorobenzene-d4	152.00	5.899	5.903	(1.000)	38466	40.0	
* 42 Naphthalene-d8	136.00	8.240	8.248	(1.000)	121030	40.0	
46 2,6-Dichlorophenol	162.00	8.472	8.471	(1.028)	133604	160	160(Q)
* 67 Acenaphthene-d10	164.00	11.779	11.786	(1.000)	62043	40.0	
77 2,3,4,6-Tetrachlorophenol	232.00	12.568	12.565	(1.067)	79564	160	160(Q)
* 101 Phenanthrene-d10	188.00	15.583	15.592	(1.000)	81130	40.0	
105 Dinoseb	211.00	15.931	15.916	(1.022)	68112	160	160(Q)
* 126 Chrysene-d12	240.00	22.041	22.051	(1.000)	44229	40.0	
* 135 Perylene-d12	264.00	24.896	24.905	(1.000)	36376	40.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

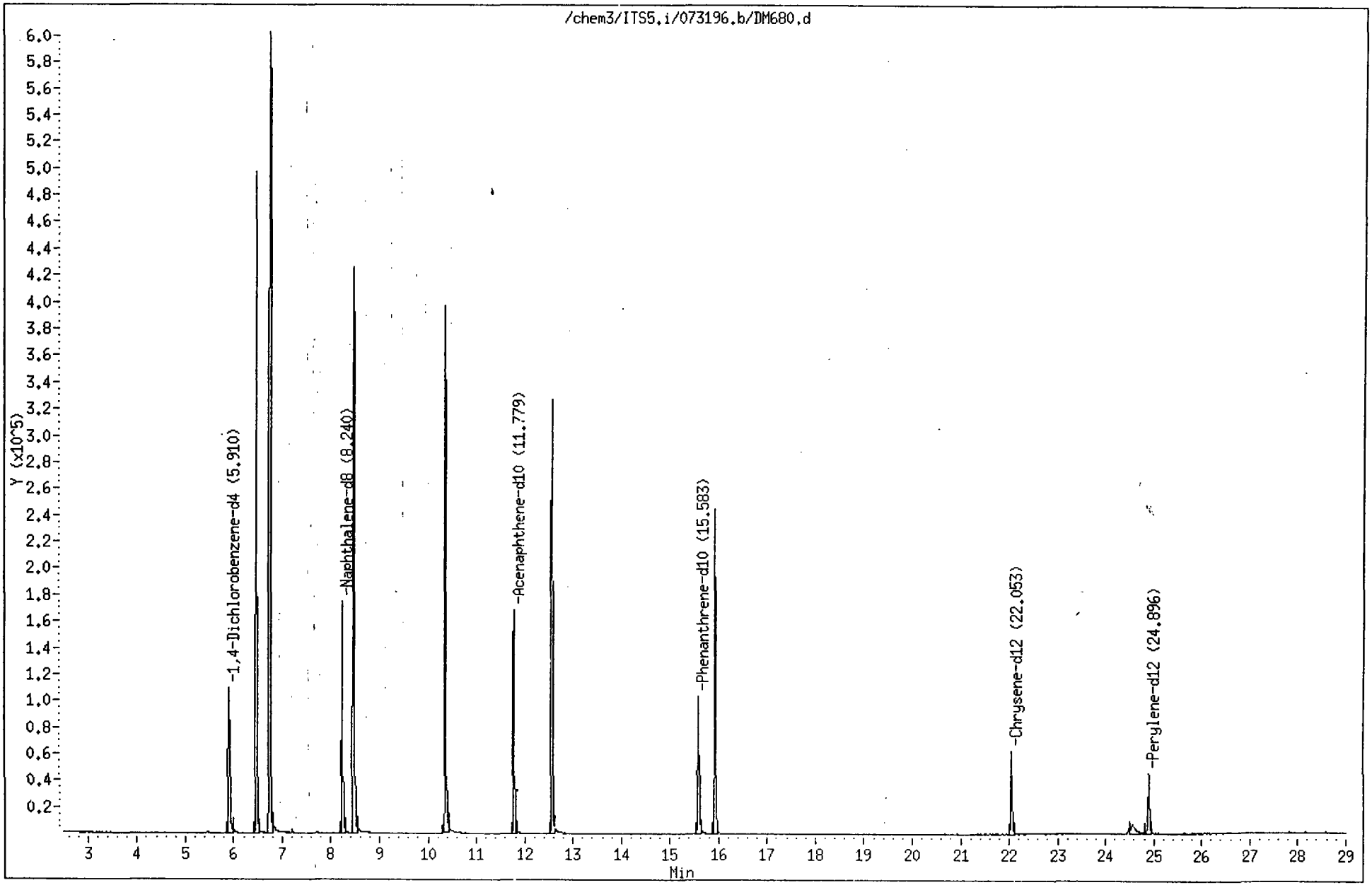
Data File: /chem3/ITS5.i/073196.b/DM680.d
Date : 31-JUL-1996 13:25
Client ID: PHEN160 AB396-44-2
Sample Info: ITS5 Appendix IX Phenols Mix Std (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

344



Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM681.d
Lab Smp Id: PHEN120 AB396-44-2 Client Smp ID: PHEN120 AB396-44-2
Inj Date : 31-JUL-1996 14:01
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Phenols Mix Std (exp 1/97)
Misc Info : 120ug/mL 02-07-96 AB396-44-2 BTL#10
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 12:11 Cal File: DM678.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Phen.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 16 1,4-Dichlorobenzene-d4	152.00	5.908	5.903	(1.000)	41861	40.0	
* 42 Naphthalene-d8	136.00	8.242	8.248	(1.000)	132471	40.0	
46 2,6-Dichlorophenol	162.00	8.475	8.471	(1.028)	115303	120	123(Q)
* 67 Acenaphthene-d10	164.00	11.780	11.786	(1.000)	62856	40.0	
77 2,3,4,6-Tetrachlorophenol	232.00	12.569	12.565	(1.067)	61753	120	121(Q)
* 101 Phenanthrene-d10	188.00	15.584	15.592	(1.000)	79568	40.0	
105 Dinoseb	211.00	15.933	15.916	(1.022)	48058	120	118(Q)
* 126 Chrysene-d12	240.00	22.042	22.051	(1.000)	49796	40.0	
* 135 Perylene-d12	264.00	24.897	24.905	(1.000)	39945	40.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

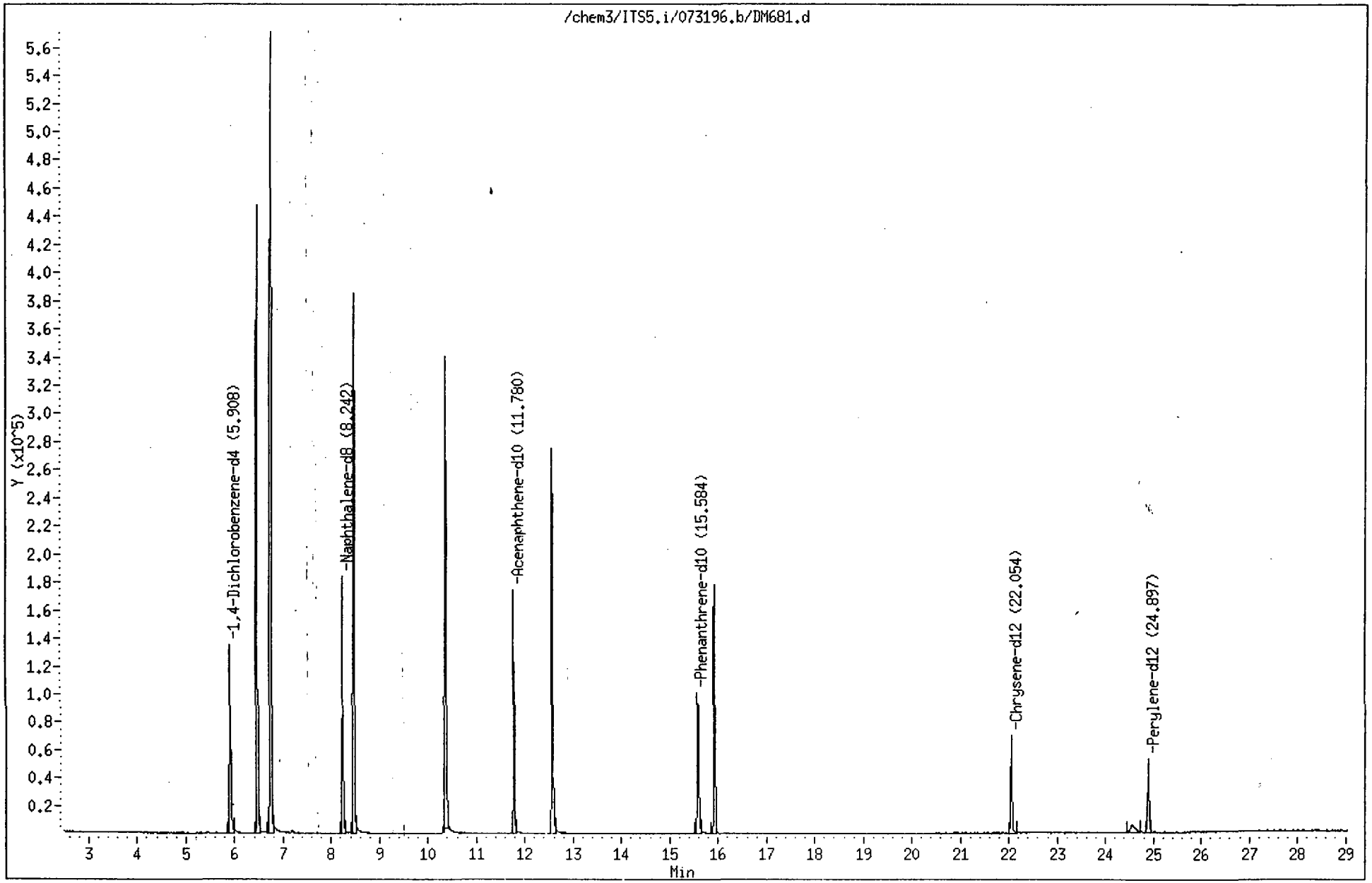
Data File: /chem3/ITS5.i/073196.b/DM681.d
Date : 31-JUL-1996 14:01
Client ID: PHEN120 AB396-44-2
Sample Info: ITS5 Appendix IX Phenols Mix Std (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

346



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SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM682.d
Lab Smp Id: PHEN080 AB396-44-2 Client Smp ID: PHEN080 AB396-44-2
Inj Date : 31-JUL-1996 14:38
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Phenols Mix Std (exp 1/97)
Misc Info : 80ug/mL 02-07-96 AB396-44-2 BTL#11
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 12:11 Cal File: DM678.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Phen.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 16 1,4-Dichlorobenzene-d4	152.00	5.903	5.903	(1.000)	36240	40.0	
* 42 Naphthalene-d8	136.00	8.238	8.248	(1.000)	119088	40.0	
46 2,6-Dichlorophenol	162.00	8.471	8.471	(1.028)	75929	80.0	86.5(Q)
* 67 Acenaphthene-d10	164.00	11.776	11.786	(1.000)	61469	40.0	
77 2,3,4,6-Tetrachlorophenol	232.00	12.564	12.565	(1.067)	41482	80.0	82.2(Q)
* 101 Phenanthrene-d10	188.00	15.591	15.592	(1.000)	78041	40.0	
105 Dinoseb	211.00	15.928	15.916	(1.022)	28555	80.0	73.9(Q)
* 126 Chrysene-d12	240.00	22.049	22.051	(1.000)	38683	40.0	
* 135 Perylene-d12	264.00	24.891	24.905	(1.000)	32673	40.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

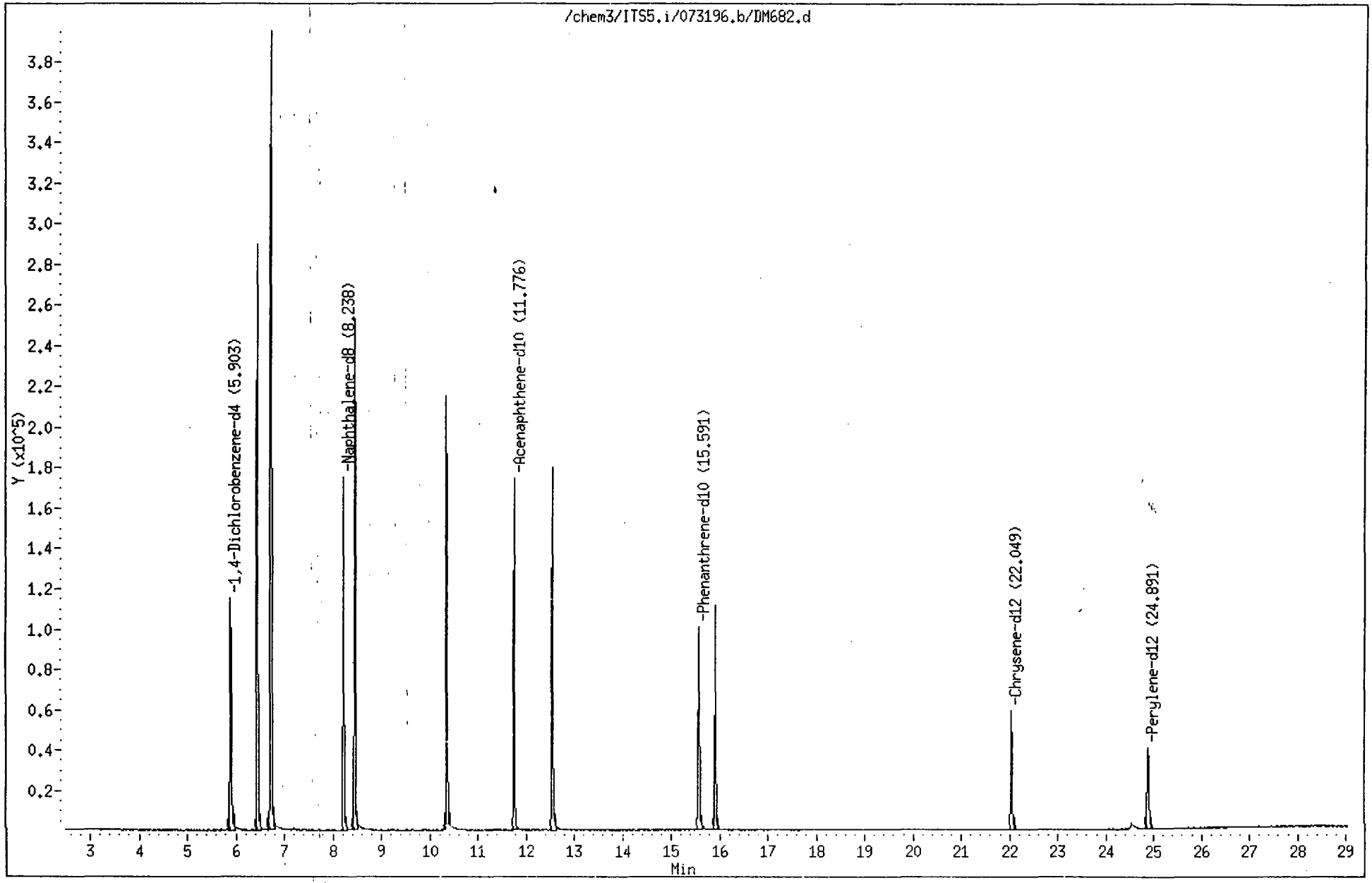
Data File: /chem3/ITS5.i/073196.b/DM682.d
Date : 31-JUL-1996 14:38
Client ID: PHEN080 AB396-44-2
Sample Info: ITS5 Appendix IX Phenols Mix Std (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

349



Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM683.d
Lab Smp Id: PHEN050 AB396-44-2 Client Smp ID: PHEN050 AB396-44-2
Inj Date : 31-JUL-1996 15:15
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Phenols Mix Std (exp 1/97)
Misc Info : 50ug/mL 02-07-96 AB396-44-2 BTL#12
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 15:15 Cal File: DM683.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Phen.sub
Target Version: 3.10

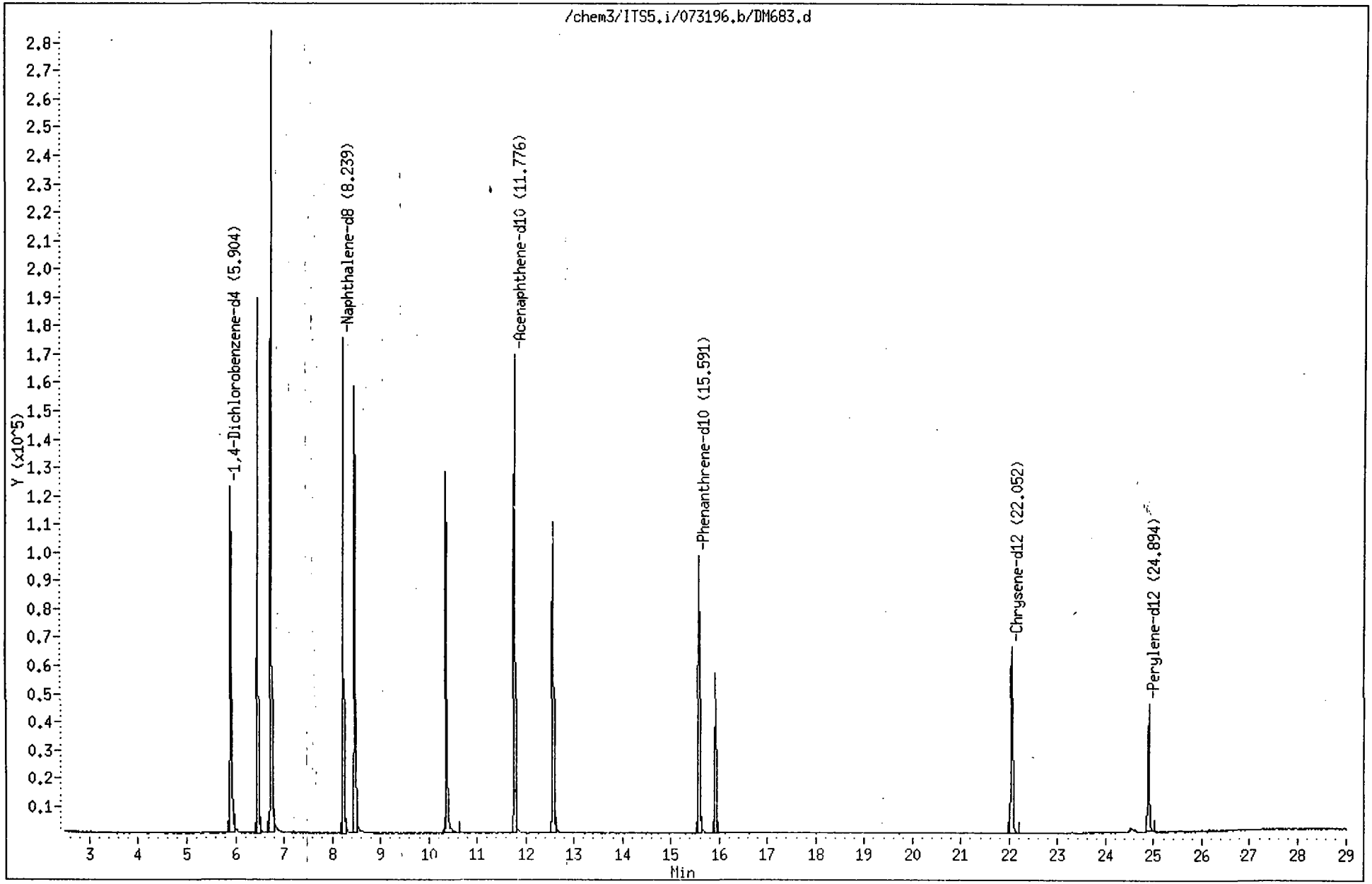
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 16 1,4-Dichlorobenzene-d4	152.00	5.904	5.903	(1.000)	38646	40.0	
* 42 Naphthalene-d8	136.00	8.239	8.248	(1.000)	117630	40.0	
46 2,6-Dichlorophenol	162.00	8.471	8.471	(1.028)	49738	50.0	55.3
* 67 Acenaphthene-d10	164.00	11.776	11.786	(1.000)	59326	40.0	
77 2,3,4,6-Tetrachlorophenol	232.00	12.565	12.565	(1.067)	24871	50.0	50.8
* 101 Phenanthrene-d10	188.00	15.591	15.592	(1.000)	77712	40.0	
105 Dinoseb	211.00	15.916	15.916	(1.021)	14930	50.0	41.1
* 126 Chrysene-d12	240.00	22.052	22.051	(1.000)	44544	40.0	
* 135 Perylene-d12	264.00	24.894	24.905	(1.000)	35973	40.0	

Data File: /chem3/ITS5.i/073196.b/DM683.d
Date : 31-JUL-1996 15:15
Client ID: PHEN050 AB396-44-2
Sample Info: ITS5 Appendix IX Phenols Mix Std (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM684.d
Lab Smp Id: PHEN020 AB396-44-2 Client Smp ID: PHEN020 AB396-44-2
Inj Date : 31-JUL-1996 15:52
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Phenols Mix Std (exp 1/97)
Misc Info : 20ug/mL 02-07-96 AB396-44-2 BTL#13
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 15:15 Cal File: DM683.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Phen.sub
Target Version: 3.10

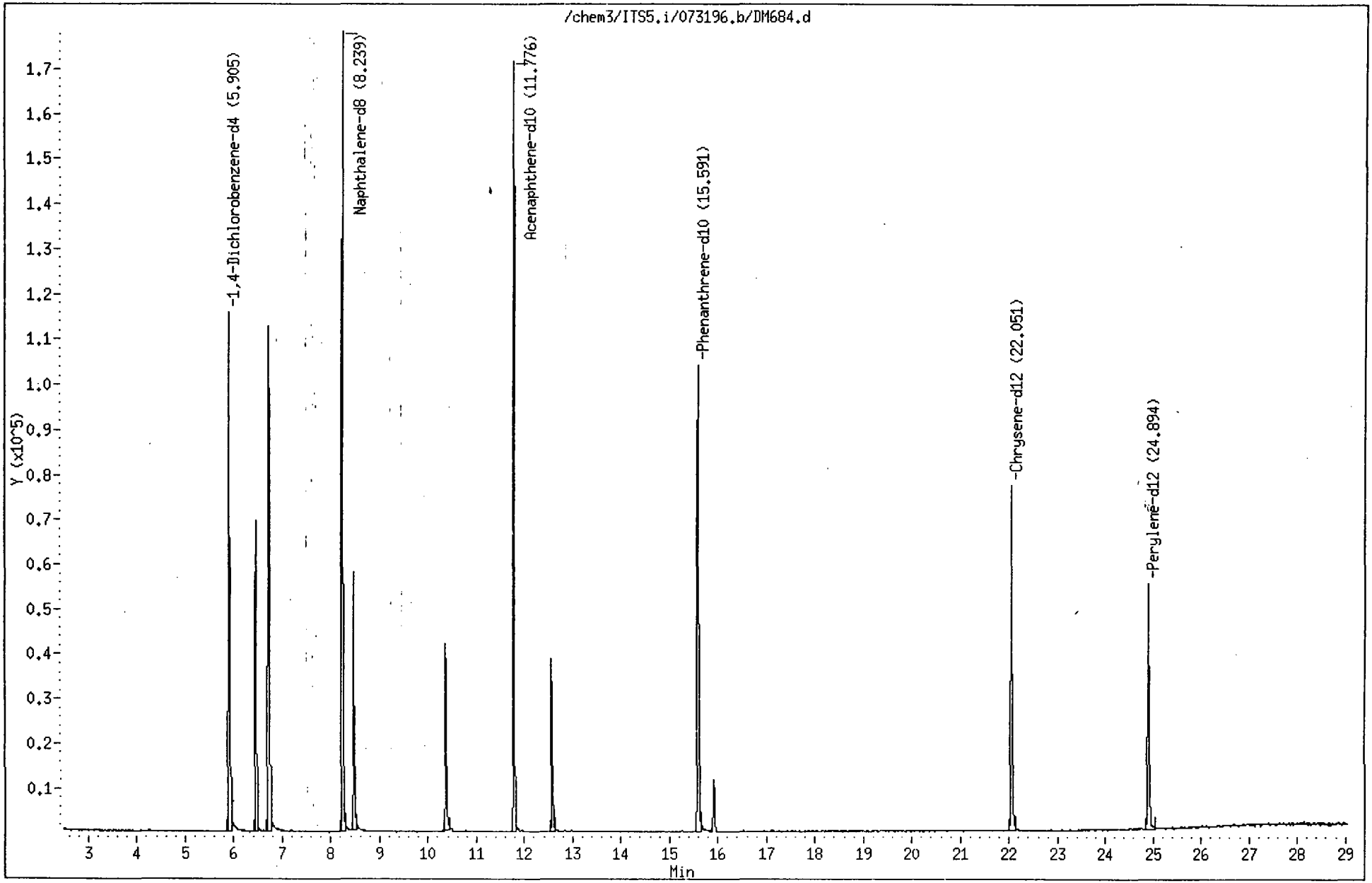
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 16 1,4-Dichlorobenzene-d4	152.00	5.905	5.903	(1.000)	37173	40.0	
* 42 Naphthalene-d8	136.00	8.239	8.248	(1.000)	118899	40.0	
46 2,6-Dichlorophenol	162.00	8.471	8.471	(1.028)	19359	20.0	21.0
* 67 Acenaphthene-d10	164.00	11.776	11.786	(1.000)	61769	40.0	
77 2,3,4,6-Tetrachlorophenol	232.00	12.565	12.565	(1.067)	9065	20.0	18.2
* 101 Phenanthrene-d10	188.00	15.591	15.592	(1.000)	79967	40.0	
105 Dinoseb	211.00	15.916	15.916	(1.021)	3236	20.0	9.76
* 126 Chrysene-d12	240.00	22.051	22.051	(1.000)	49850	40.0	
* 135 Perylene-d12	264.00	24.894	24.905	(1.000)	44825	40.0	

Data File: /chem3/ITS5.i/073196.b/DM684.d
Date : 31-JUL-1996 15:52
Client ID: PHEN020 AB396-44-2
Sample Info: ITS5 Appendix IX Phenols Mix Std (exp 1/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5



Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM685.d
Lab Smp Id: CHLO160 AB396-45-1 Client Smp ID: CHLO160 AB396-45-1
Inj Date : 31-JUL-1996 16:29
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Cholorinated Std (exp 1/97)
Misc Info : 160ug/mL 02-07-96 AB396-45-1 BTL#14
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 15:15 Cal File: DM683.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Chloro.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
5 Methyl methanesulfonate	80.00	3.887	3.874	(0.658)	126450	160	160(Q)
8 Ethyl methanesulfonate	79.00	4.862	4.849	(0.823)	159434	160	160(Q)
9 Pentachloroethane	117.00	5.430	5.429	(0.919)	75538	160	160(Q)
* 16 1,4-Dichlorobenzene-d4	152.00	5.907	5.903	(1.000)	32377	40.0	
23 Acetophenone	105.00	6.686	6.682	(1.132)	211433	160	160(Q)
* 42 Naphthalene-d8	136.00	8.243	8.248	(1.000)	100838	40.0	
44 Hexachloropropene	213.00	8.522	8.518	(1.034)	89717	160	160(Q)
51 Isosafrole	162.00	9.543	9.539	(1.158)	93929	160	160(Q)
52 Safrole	162.00	10.576	10.572	(0.897)	52131	160	160(Q)
54 1,2,4,5-Tetrachlorobenzene	216.00	10.077	10.073	(1.222)	114151	160	160(Q)
61 1,4-Naphthoquinone	158.00	11.029	11.024	(0.936)	83252	160	160(Q)
63 m-Dinitrobenzene	168.00	11.447	11.430	(0.971)	47106	160	160(Q)
* 67 Acenaphthene-d10	164.00	11.784	11.786	(1.000)	48890	40.0	
73 Pentachlorobenzene	250.00	12.237	12.220	(1.038)	94963	160	160(Q)
90 1,3,5-Trinitrobenzene	75.00	14.407	14.411	(1.223)	44470	160	160(Q)
91 Diallate	86.00	14.338	14.330	(1.217)	62490	160	160(Q)
99 Pentachloronitrobenzene	237.00	15.534	15.525	(1.318)	24523	160	160(Q)
100 Pronamide	173.00	15.558	15.537	(0.996)	63415	160	160(Q)
* 101 Phenanthrene-d10	188.00	15.616	15.592	(1.000)	61024	40.0	
112 Isodrin	193.00	18.435	18.436	(1.180)	35017	160	160(Q)
117 Aromite	185.00	19.873	19.862	(1.273)	13127	160	160(Q)
119 Chlorobenzilate	251.00	20.315	20.303	(0.922)	71065	160	160(Q)
120 Kepone	272.00	20.837	20.836	(0.945)	21313	160	160(Q)
* 126 Chrysene-d12	240.00	22.044	22.051	(1.000)	38202	40.0	
131 7,12-Dimethylbenz(a)anthracen	256.00	24.238	24.222	(1.099)	70823	160	160(Q)
* 135 Perylene-d12	264.00	24.899	24.905	(1.000)	32057	40.0	
136 3-Methylcholanthrene	268.00	25.503	25.487	(1.024)	63523	160	160(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

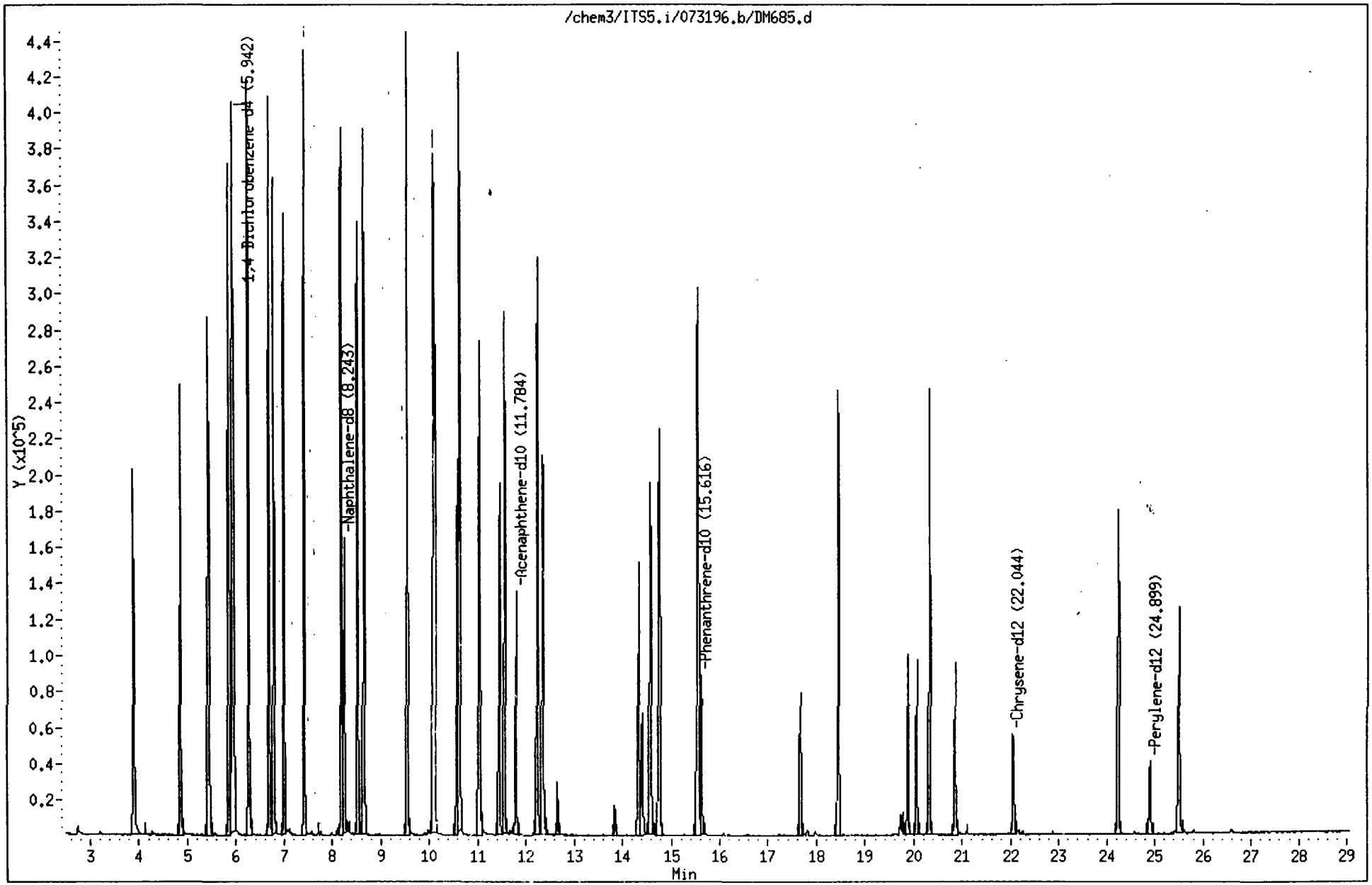
Data File: /chem3/ITS5.i/073196.b/DM685.d
Date : 31-JUL-1996 16:29
Client ID: CHL0160 AB396-45-1
Sample Info: ITS5 Appendix IX Cholorinated Std (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

355



Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM686.d
Lab Smp Id: CHLO120 AB396-45-1 Client Smp ID: CHLO120 AB396-45-1
Inj Date : 31-JUL-1996 17:05
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Cholorinated Std (exp 1/97)
Misc Info : 120ug/mL 02-07-96 AB396-45-1 BTL#15
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 15:15 Cal File: DM683.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Chloro.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
5 Methyl methanesulfonate	80.00	3.885	3.874	(0.658)	101243	120	121(Q)
8 Ethyl methanesulfonate	79.00	4.861	4.849	(0.823)	129565	120	122(Q)
9 Pentachloroethane	117.00	5.430	5.429	(0.919)	60880	120	122(Q)
* 16 1,4-Dichlorobenzene-d4	152.00	5.906	5.903	(1.000)	33861	40.0	
23 Acetophenone	105.00	6.685	6.682	(1.132)	176486	120	124(Q)
* 42 Naphthalene-d8	136.00	8.241	8.248	(1.000)	107185	40.0	
44 Hexachloropropene	213.00	8.520	8.518	(1.034)	72148	120	120(Q)
51 Isosafrole	162.00	9.541	9.539	(1.158)	77069	120	122(Q)
52 Safrole	162.00	10.574	10.572	(0.897)	42200	120	120(Q)
54 1,2,4,5-Tetrachlorobenzene	216.00	10.075	10.073	(1.223)	93243	120	121(Q)
61 1,4-Naphthoquinone	158.00	11.027	11.024	(0.936)	68128	120	121(Q)
63 m-Dinitrobenzene	168.00	11.445	11.430	(0.971)	38896	120	122(Q)
* 67 Acenaphthene-d10	164.00	11.782	11.786	(1.000)	52297	40.0	
73 Pentachlorobenzene	250.00	12.235	12.220	(1.038)	76628	120	120(Q)
90 1,3,5-Trinitrobenzene	75.00	14.405	14.411	(1.223)	37591	120	123(Q)
91 Diallate	86.00	14.335	14.330	(1.217)	48702	120	118(Q)
99 Pentachloronitrobenzene	237.00	15.531	15.525	(1.318)	19958	120	121(Q)
100 Pronamide	173.00	15.543	15.537	(0.996)	53423	120	121(Q)
* 101 Phenanthrene-d10	188.00	15.613	15.592	(1.000)	67404	40.0	
112 Isodrin	193.00	18.432	18.436	(1.181)	29147	120	120(Q)
117 Aromite	185.00	19.871	19.862	(1.273)	11477	120	123(Q)
119 Chlorobenzilate	251.00	20.312	20.303	(0.921)	62864	120	118(Q)
120 Kepone	272.00	20.846	20.836	(0.945)	18368	120	116(Q)
* 126 Chrysene-d12	240.00	22.053	22.051	(1.000)	46531	40.0	
131 7,12-Dimethylbenz(a)anthracen	256.00	24.235	24.222	(1.099)	60936	120	116(Q)
* 135 Perylene-d12	264.00	24.897	24.905	(1.000)	34798	40.0	
136 3-Methylcholanthrene	268.00	25.490	25.487	(1.024)	49023	120	117(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

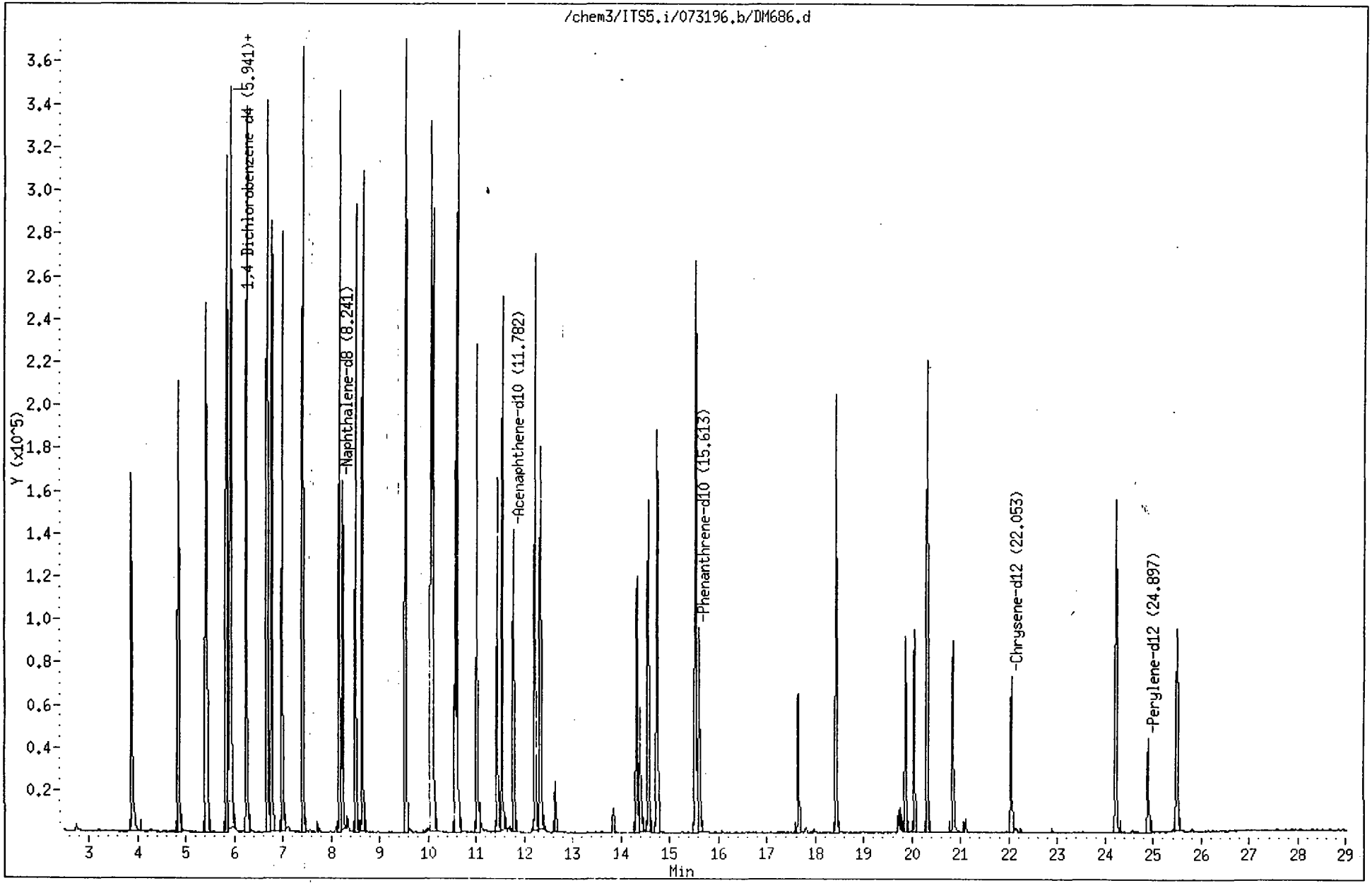
Data File: /chem3/ITS5.i/073196.b/DM686.d
Date : 31-JUL-1996 17:05
Client ID: CHL0120 AB396-45-1
Sample Info: ITS5 Appendix IX Cholorinated Std (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

359



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SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM687.d
Lab Smp Id: CHLO080 AB396-45-1 Client Smp ID: CHLO080 AB396-45-1
Inj Date : 31-JUL-1996 17:42
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Cholorinated Std (exp 1/97)
Misc Info : 80ug/mL 02-07-96 AB396-45-1 BTL#16
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 15:15 Cal File: DM683.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Chloro.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
5 Methyl methanesulfonate	80.00	3.878	3.874	(0.656)	69752	80.0	81.2(Q)
8 Ethyl methanesulfonate	79.00	4.853	4.849	(0.821)	90167	80.0	82.2(Q)
9 Pentachloroethane	117.00	5.422	5.429	(0.917)	42151	80.0	81.6(Q)
* 16 1,4-Dichlorobenzene-d4	152.00	5.910	5.903	(1.000)	34560	40.0	
23 Acetophenone	105.00	6.688	6.682	(1.132)	123219	80.0	83.0(Q)
* 42 Naphthalene-d8	136.00	8.246	8.248	(1.000)	110068	40.0	
44 Hexachloropropene	213.00	8.514	8.518	(1.032)	49902	80.0	80.8(Q)
51 Isosafrole	162.00	9.534	9.539	(1.156)	57598	80.0	85.5(Q)
52 Safrole	162.00	10.568	10.572	(0.897)	33369	80.0	87.1(Q)
54 1,2,4,5-Tetrachlorobenzene	216.00	10.068	10.073	(1.221)	69386	80.0	85.2(Q)
61 1,4-Naphthoquinone	158.00	11.021	11.024	(0.935)	50386	80.0	83.7(Q)
63 m-Dinitrobenzene	168.00	11.439	11.430	(0.970)	26370	80.0	79.3(Q)
* 67 Acenaphthene-d10	164.00	11.787	11.786	(1.000)	54677	40.0	
73 Pentachlorobenzene	250.00	12.228	12.220	(1.037)	56484	80.0	83.2(Q)
90 1,3,5-Trinitrobenzene	75.00	14.397	14.411	(1.221)	23751	80.0	76.2(Q)
91 Diallate	86.00	14.327	14.330	(1.216)	35915	80.0	82.2(Q)
99 Pentachloronitrobenzene	237.00	15.535	15.525	(1.318)	14467	80.0	82.5(Q)
100 Pronamide	173.00	15.547	15.537	(0.996)	38768	80.0	82.6(Q)
* 101 Phenanthrene-d10	188.00	15.605	15.592	(1.000)	70546	40.0	
112 Isodrin	193.00	18.435	18.436	(1.181)	21296	80.0	82.6(Q)
117 Aromite	185.00	19.863	19.862	(1.273)	7877	80.0	80.5(Q)
119 Chlorobenzilate	251.00	20.316	20.303	(0.922)	44956	80.0	83.5(Q)
120 Kepone	272.00	20.839	20.836	(0.945)	12937	80.0	82.0(Q)
* 126 Chrysene-d12	240.00	22.046	22.051	(1.000)	45996	40.0	
131 7,12-Dimethylbenz(a)anthracen	256.00	24.227	24.222	(1.099)	43276	80.0	82.4(Q)
* 135 Perylene-d12	264.00	24.900	24.905	(1.000)	39306	40.0	
136 3-Methylcholanthrene	268.00	25.493	25.487	(1.024)	37503	80.0	79.4(Q)

QC Flag Legend

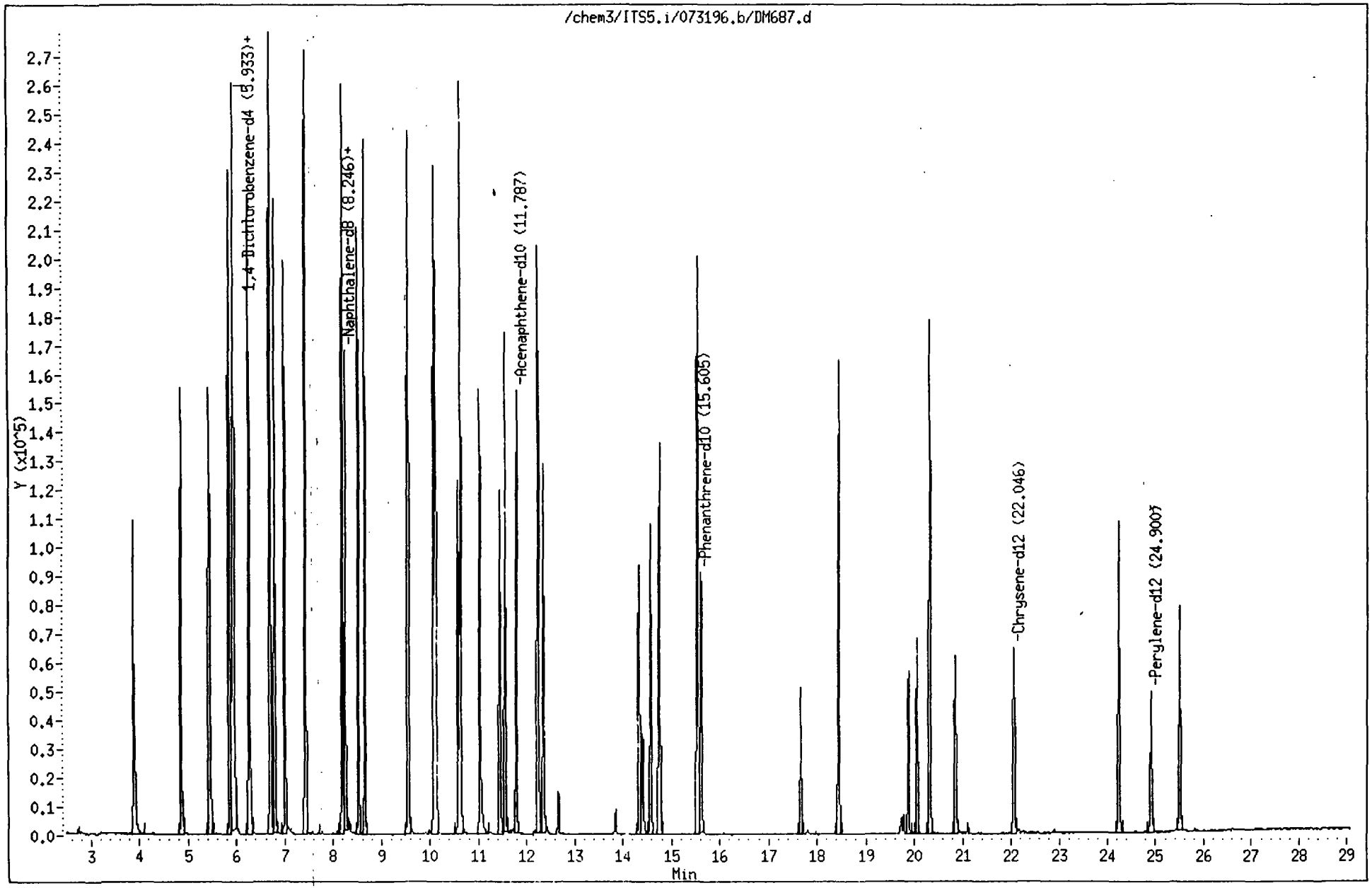
Q - Qualifier signal failed the ratio test.

Data File: /chem3/ITS5.i/073196.b/DM687.d
Date : 31-JUL-1996 17:42
Client ID: CHL0080 AB396-45-1
Sample Info: ITS5 Appendix IX Cholorinated Std (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



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SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM688.d
Lab Smp Id: CHLO050 AB396-45-1 Client Smp ID: CHLO050 AB396-45-1
Inj Date : 31-JUL-1996 18:19
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Cholorinated Std (exp 1/97)
Misc Info : 50ug/mL 02-07-96 AB396-45-1 BTL#17
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 18:19 Cal File: DM688.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Chloro.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
5 Methyl methanesulfonate	80.00	3.875	3.874	(0.656)	52773	50.0	51.2(M)
8 Ethyl methanesulfonate	79.00	4.850	4.849	(0.821)	65142	50.0	49.8(M)
9 Pentachloroethane	117.00	5.430	5.429	(0.919)	32033	50.0	51.5(M)
* 16 1,4-Dichlorobenzene-d4	152.00	5.906	5.903	(1.000)	41196	40.0	
23 Acetophenone	105.00	6.684	6.682	(1.132)	90011	50.0	50.7(M)
* 42 Naphthalene-d8	136.00	8.243	8.248	(1.000)	118843	40.0	
44 Hexachloropropene	213.00	8.510	8.518	(1.032)	36922	50.0	53.9(M)
51 Isosafrole	162.00	9.543	9.539	(1.158)	40704	50.0	54.4(M)
52 Safrole	162.00	10.564	10.572	(0.897)	19743	50.0	49.3(M)
54 1,2,4,5-Tetrachlorobenzene	216.00	10.065	10.073	(1.221)	49385	50.0	54.5(M)
61 1,4-Naphthoquinone	158.00	11.017	11.024	(0.935)	33027	50.0	51.6(M)
63 m-Dinitrobenzene	168.00	11.435	11.430	(0.970)	16361	50.0	47.6(M)
* 67 Acenaphthene-d10	164.00	11.783	11.786	(1.000)	57464	40.0	
73 Pentachlorobenzene	250.00	12.224	12.220	(1.037)	38307	50.0	52.7(M)
90 1,3,5-Trinitrobenzene	75.00	14.405	14.411	(1.222)	12676	50.0	41.0(M)
91 Diallate	86.00	14.324	14.330	(1.216)	23073	50.0	50.2(M)
99 Pentachloronitrobenzene	237.00	15.531	15.525	(1.318)	9293	50.0	50.3(M)
100 Pronamide	173.00	15.543	15.537	(0.996)	24608	50.0	50.1(M)
* 101 Phenanthrene-d10	188.00	15.601	15.592	(1.000)	73816	40.0	
112 Isodrin	193.00	18.432	18.436	(1.181)	13873	50.0	51.1(M)
117 Aromite	185.00	19.870	19.862	(1.274)	4792	50.0	47.6(M)
119 Chlorobenzilate	251.00	20.312	20.303	(0.921)	28722	50.0	50.4(M)
120 Kepone	272.00	20.846	20.836	(0.945)	7985	50.0	48.4(M)
* 126 Chrysene-d12	240.00	22.052	22.051	(1.000)	48622	40.0	
131 7,12-Dimethylbenz(a)anthracen	256.00	24.222	24.222	(1.098)	24733	50.0	45.8(M)
* 135 Perylene-d12	264.00	24.896	24.905	(1.000)	40260	40.0	
136 3-Methylcholanthrene	268.00	25.488	25.487	(1.024)	23620	50.0	49.1(M)

QC Flag Legend

M - Compound response manually integrated.

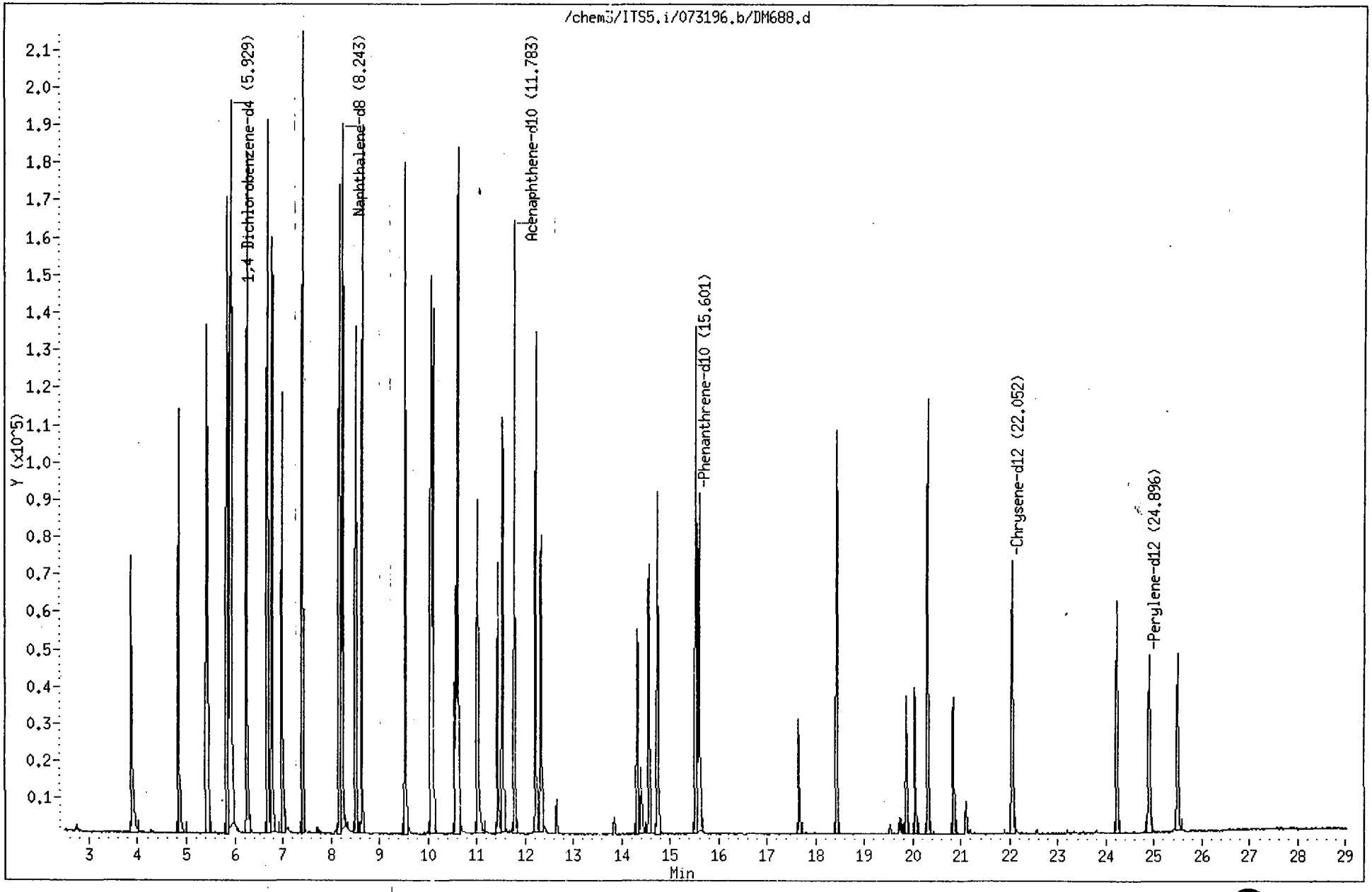
Data File: /chem3/ITS5.i/073196.b/DM688.d
Date : 31-JUL-1996 18:19
Client ID: CHL0050 AB396-45-1
Sample Info: ITS5 Appendix IX Cholorinated Std (exp 1/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5

364



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SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/073196.b/DM689.d
Lab Smp Id: CHLO020 AB396-45-1 Client Smp ID: CHLO020 AB396-45-1
Inj Date : 31-JUL-1996 18:55
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Cholorinated Std (exp 1/97)
Misc Info : 20ug/mL 02-07-96 AB396-45-1 BTL#18
Comment :
Method : /chem3/ITS5.i/073196.b/abn5.m
Meth Date : 02-Aug-1996 12:00 wswinger Quant Type: ISTD
Cal Date : 31-JUL-1996 18:19 Cal File: DM688.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Chloro.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
5 Methyl methanesulfonate	80.00	3.874	3.874	(0.656)	17970	20.0	20.7
8 Ethyl methanesulfonate	79.00	4.849	4.849	(0.821)	23087	20.0	20.9
9 Pentachloroethane	117.00	5.429	5.429	(0.919)	10859	20.0	20.7
* 16 1,4-Dichlorobenzene-d4	152.00	5.904	5.903	(1.000)	34416	40.0	
23 Acetophenone	105.00	6.682	6.682	(1.132)	31739	20.0	21.1
* 42 Naphthalene-d8	136.00	8.239	8.248	(1.000)	110492	40.0	
44 Hexachloropropene	213.00	8.518	8.518	(1.034)	12609	20.0	19.8
51 Isosafrole	162.00	9.539	9.539	(1.158)	15165	20.0	21.4
52 Safrole	162.00	10.572	10.572	(0.898)	6676	20.0	18.2
54 1,2,4,5-Tetrachlorobenzene	216.00	10.073	10.073	(1.222)	18748	20.0	21.8
61 1,4-Naphthoquinone	158.00	11.024	11.024	(0.936)	10943	20.0	18.6
63 m-Dinitrobenzene	168.00	11.430	11.430	(0.970)	4554	20.0	15.0
* 67 Acenaphthene-d10	164.00	11.779	11.786	(1.000)	53969	40.0	
73 Pentachlorobenzene	250.00	12.220	12.220	(1.037)	15304	20.0	21.9
90 1,3,5-Trinitrobenzene	75.00	14.411	14.411	(1.223)	2160	20.0	8.51
91 Diallate	86.00	14.330	14.330	(1.217)	8173	20.0	19.1
99 Pentachloronitrobenzene	237.00	15.525	15.525	(1.318)	3029	20.0	17.9
100 Pronamide	173.00	15.537	15.537	(0.996)	8047	20.0	18.8
* 101 Phenanthrene-d10	188.00	15.595	15.592	(1.000)	65110	40.0	
112 Isodrin	193.00	18.436	18.436	(1.182)	4917	20.0	20.4
117 Aromite	185.00	19.862	19.862	(1.274)	1267	20.0	15.1
119 Chlorobenzilate	251.00	20.303	20.303	(0.921)	8948	20.0	20.3
120 Kepone	272.00	20.836	20.836	(0.945)	2158	20.0	17.5
* 126 Chrysene-d12	240.00	22.054	22.051	(1.000)	37421	40.0	
131 7,12-Dimethylbenz(a)anthracen	256.00	24.222	24.222	(1.098)	8098	20.0	19.6
* 135 Perylene-d12	264.00	24.895	24.905	(1.000)	31340	40.0	
136 3-Methylcholanthrene	268.00	25.487	25.487	(1.024)	6989	20.0	18.9

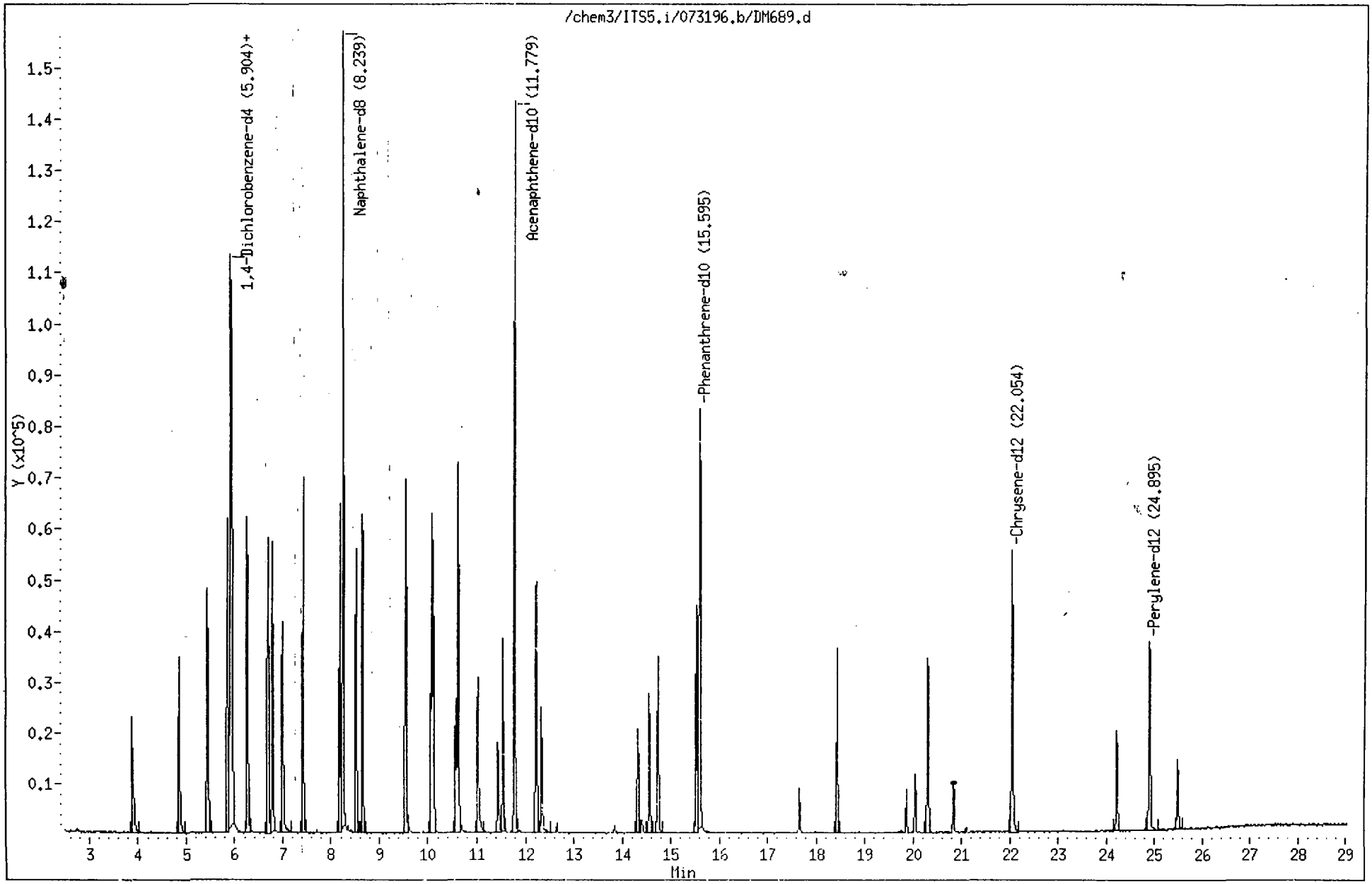
Data File: /chem3/ITS5.i/073196.b/DM689.d
Date : 31-JUL-1996 18:55
Client ID: CHL0020 AB396-45-1
Sample Info: ITS5 Appendix IX Cholorinated Std (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

366



FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Instrument ID: ITS5 Calibration Date: 10/03/96 Time: 2045

Lab File ID: DN416 Init. Calib. Date(s): 07/30/96 09/26/96

Init. Calib. Times: 1157 1203

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
N-Nitrosodimethylamine	0.635	0.589	0.050	7.2	20.0
Aniline	1.420	1.385	0.050	2.5	20.0
Phenol	1.244	1.243	0.050	0.1	20.0
Bis(2-Chloroethyl)Ether	1.075	1.047	0.050	2.6	20.0
2-Chlorophenol	1.261	1.297	0.050	2.8	20.0
1,3-Dichlorobenzene	1.526	1.556	0.050	2.0	20.0
1,4-Dichlorobenzene	1.585	1.636	0.050	3.2	20.0
Benzyl alcohol	0.532	0.556	0.050	4.5	20.0
1,2-Dichlorobenzene	1.444	1.427	0.050	1.2	20.0
2-Methylphenol	0.852	0.872	0.050	2.3	20.0
Bis(2-Chloroisopropyl)ether	1.306	1.230	0.050	5.8	20.0
4-Methylphenol	0.854	0.867	0.050	1.5	20.0
N-Nitroso-di-n-propylamine	0.905	0.854	0.050	5.6	20.0
Hexachloroethane	0.812	0.780	0.050	3.9	20.0
Nitrobenzene	0.459	0.438	0.050	4.6	20.0
Isophorone	0.746	0.722	0.050	3.2	20.0
2-Nitrophenol	0.214	0.226	0.050	5.6	20.0
2,4-Dimethylphenol	0.423	0.437	0.050	3.3	20.0
Bis(2-Chloroethoxy)methane	0.418	0.417	0.050	0.2	20.0
Benzoic acid	0.212	0.198	0.050	6.6	20.0
2,4-Dichlorophenol	0.345	0.368	0.050	6.7	20.0
1,2,4-Trichlorobenzene	0.393	0.422	0.050	7.4	20.0
4-Chloroaniline	0.433	0.447	0.050	3.2	20.0
Hexachlorobutadiene	0.322	0.338	0.050	5.0	20.0
4-Chloro-3-methylphenol	0.373	0.403	0.050	8.0	20.0
2-Methylnaphthalene	0.628	0.641	0.050	2.1	20.0
Hexachlorocyclopentadiene	0.554	0.591	0.050	6.7	20.0
2,4,6-Trichlorophenol	0.457	0.500	0.050	9.4	20.0
2,4,5-Trichlorophenol	0.480	0.536	0.050	11.7	20.0
2-Chloronaphthalene	1.218	1.276	0.050	4.8	20.0
2-Nitroaniline	0.491	0.474	0.050	3.5	20.0
Dimethyl phthalate	1.574	1.616	0.050	2.7	20.0
Acenaphthylene	1.767	1.804	0.050	2.1	20.0
2,6-Dinitrotoluene	0.357	0.368	0.050	3.1	20.0
3-Nitroaniline	0.349	0.345	0.050	1.1	20.0
Acenaphthene	1.165	1.187	0.050	1.9	20.0
2,4-Dinitrophenol	0.213	0.183	0.050	14.1	20.0

All other compounds must meet a minimum RRF of 0.010.

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Instrument ID: ITS5 Calibration Date: 10/03/96 Time: 2045

Lab File ID: DN416 Init. Calib. Date(s): 07/30/96 09/26/96

Init. Calib. Times: 1157 1203

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Dibenzofuran	1.604	1.620	0.050	1.0	20.0	
4-Nitrophenol	0.369	0.326	0.050	11.6	20.0	
2,4-Dinitrotoluene	0.483	0.486	0.050	0.6	20.0	
Diethyl phthalate	1.671	1.643	0.050	1.7	20.0	
Fluorene	1.270	1.319	0.050	3.8	20.0	
4-Chlorophenylphenyl ether	0.679	0.703	0.050	3.5	20.0	
4-Nitroaniline	0.338	0.317	0.050	6.2	20.0	
4,6-Dinitro-2-methylphenol	0.154	0.153	0.050	0.6	20.0	
N-Nitrosodiphenylamine	0.428	0.463	0.050	8.2	20.0	
1,2-Diphenylhydrazine	0.908	0.907	0.050	0.1	20.0	
4-Bromophenylphenyl ether	0.216	0.230	0.050	6.5	20.0	
Pentachlorophenol	0.174	0.126	0.050	27.6	20.0	<-
Benzidine	0.803	0.727	0.050	9.5	20.0	
Phenanthrene	0.934	1.019	0.050	9.1	20.0	
Anthracene	0.911	1.006	0.050	10.4	20.0	
Carbazole	1.026	1.031	0.050	0.5	20.0	
Di-n-butylphthalate	1.354	1.372	0.050	1.3	20.0	
Fluoranthene	1.030	1.071	0.050	4.0	20.0	
Pyrene	1.511	1.667	0.050	10.3	20.0	
Butyl benzyl phthalate	0.824	0.805	0.050	2.3	20.0	
Benzo(a)anthracene	1.136	1.196	0.050	5.3	20.0	
3,3'-Dichlorobenzidine	0.507	0.478	0.050	5.7	20.0	
Chrysene	1.218	1.278	0.050	4.9	20.0	
Bis(2-ethylhexyl)phthalate	1.056	1.040	0.050	1.5	20.0	
Di-n-octylphthalate	1.712	1.702	0.050	0.6	20.0	
Benzo(b)fluoranthene	1.181	1.242	0.050	5.2	20.0	
Benzo(k)fluoranthene	1.274	1.366	0.050	7.2	20.0	
Benzo(a)pyrene	1.016	1.068	0.050	5.1	20.0	
Indeno(1,2,3-cd)pyrene	1.174	1.183	0.050	0.8	20.0	
Dibenz(a,h)anthracene	0.961	0.981	0.050	2.1	20.0	
Benzo(g,h,i)perylene	0.969	0.984	0.050	1.5	20.0	
Pyridine	1.602	1.074	0.050	33.0	20.0	<-
m,p-Cresol	1.159	0.995	0.050	14.2	20.0	
2-Picoline	1.472	1.211	0.050	17.7	20.0	
N-Nitrosomethylethylamine	0.624	0.452	0.050	27.6	20.0	<-
Methyl methanesulfonate	1.010	1.184	0.050	17.2	20.0	

All other compounds must meet a minimum RRF of 0.010.

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Instrument ID: ITS5 Calibration Date: 10/03/96 Time: 2045

Lab File ID: DN416 Init. Calib. Date(s): 07/30/96 09/26/96

Init. Calib. Times: 1157 1203

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
N-Nitrosodiethylamine	0.646	0.508	0.050	21.4	20.0	<-
Ethyl methanesulfonate	1.283	0.982	0.050	23.5	20.0	<-
Pentachloroethane	0.609	0.575	0.050	5.6	20.0	
Acetophenone	1.749	1.643	0.050	6.1	20.0	
N-Nitrosopyrrolidine	0.688	0.528	0.050	23.2	20.0	<-
N-Nitrosomorpholine	0.855	1.004	0.050	17.4	20.0	
o-Toluidine	1.759	1.551	0.050	11.8	20.0	
p-Phenylenediamine	0.641	0.411	0.050	35.9	20.0	<-
N-Nitrosopiperidine	0.203	0.186	0.050	8.4	20.0	
a,a-Dimethylphenylethylamine	0.983	0.742	0.050	24.5	20.0	<-
2,6-Dichlorophenol	0.310	0.341	0.050	10.0	20.0	
Hexachloropropene	0.230	0.441	0.050	91.7	20.0	<-
N-Nitrosodibutylamine	0.262	0.276	0.050	5.3	20.0	
Isosafrole	0.257	0.311	0.050	21.0	20.0	<-
1,2,4,5-Tetrachlorobenzene	0.312	0.438	0.050	40.4	20.0	<-
Safrole	0.272	0.307	0.050	12.9	20.0	
1-Chloronaphthalene			0.050		20.0	<-
1,4-Naphthoquinone	0.437	0.468	0.050	7.1	20.0	
m-Dinitrobenzene	0.225	0.273	0.050	21.3	20.0	<-
Pentachlorobenzene	0.518	0.747	0.050	44.2	20.0	<-
2-Naphthylamine	0.811	0.857	0.050	5.7	20.0	
1-Naphthylamine	0.989	1.044	0.050	5.6	20.0	
2,3,4,6-Tetrachlorophenol	0.323	0.385	0.050	19.2	20.0	
5-Nitro-o-toluidine	0.283	0.318	0.050	12.4	20.0	
1,3,5-Trinitrobenzene	0.188	0.326	0.050	73.4	20.0	<-
Diallate	0.316	0.293	0.050	7.3	20.0	
Phenacetin	0.587	0.643	0.050	9.5	20.0	
Hexachlorobenzene	0.614	0.594	0.050	3.2	20.0	
4-Aminobiphenyl	1.022	1.124	0.050	10.0	20.0	
Pentachloronitrobenzene	0.125	0.277	0.050	121.6	20.0	<-
Pronamide	0.263	0.322	0.050	22.4	20.0	<-
Dinoseb	0.166	0.140	0.050	15.7	20.0	
4-Nitroquinoline-1-oxide	0.057	0.052	0.050	8.8	20.0	
Methapyrilene	0.378	0.270	0.050	28.6	20.0	<-
Isodrin	0.148	0.173	0.050	16.9	20.0	
Aromite	0.052	0.066	0.050	26.9	20.0	<-

All other compounds must meet a minimum RRF of 0.010.

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Instrument ID: ITS5 Calibration Date: 10/03/96 Time: 2045

Lab File ID: DN416 Init. Calib. Date(s): 07/30/96 09/26/96

Init. Calib. Times: 1157 1203

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
p-(Dimethylamino)azobenzene	0.577	0.422	0.050	26.9	20.0	<-
Chlorobenzilate	0.471	0.434	0.050	7.8	20.0	
3,3'-Dimethylbenzidine	0.279	0.378	0.050	35.5	20.0	<-
Kepone	0.132	0.030	0.050	77.3	20.0	<-
2-Actylaminofluorene	0.398	0.466	0.050	17.1	20.0	
7,12-Dimethylbenz(a)anthrace	0.442	0.470	0.050	6.3	20.0	
Hexachlorophene			0.050		20.0	<-
3-Methylcholanthrene	0.471	0.496	0.050	5.3	20.0	
Dibenz[a,j]acridine			0.050		20.0	<-
N-Nitroso- & Diphenylamine	1.630	1.826	0.050	12.0	20.0	
Naphthalene	0.986	1.004	0.050	1.8	20.0	
Triethyl thiophosphate	0.147	0.218	0.050	48.3	20.0	<-
Dimethoate	0.380	0.306	0.050	19.5	20.0	
Disolfonton	0.528	0.347	0.050	34.3	20.0	<-
Methyl parathion	0.211	0.200	0.050	5.2	20.0	
Parathion	0.210	0.185	0.050	11.9	20.0	
Phorate	0.866	0.671	0.050	22.5	20.0	<-
Sulfotep	0.265	0.331	0.050	24.9	20.0	<-
Thionazin	0.366	0.389	0.050	6.3	20.0	
Phenol-d6 (SS)	1.231	1.260	0.050	2.4	20.0	
Nitrobenzene-d5 (SS)	0.485	0.481	0.050	0.8	20.0	
2-Fluorobiphenyl (SS)	1.429	1.505	0.050	5.3	20.0	
Terphenyl-d14 (SS)	1.072	1.161	0.050	8.3	20.0	
2-Fluorophenol (SS)	1.245	1.258	0.050	1.0	20.0	
2,4,6-Tribromophenol (SS)	0.325	0.308	0.050	5.2	20.0	

All other compounds must meet a minimum RRF of 0.010.

Data File: /chem3/ITS5.i/100396.b/DN416.d
Report Date: 04-Oct-1996 09:00

Inchcape Testing Services - Environmental Laboratories

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ITS5.i
Lab File ID: DN416.d
Analysis Type:
Lab Sample ID: SSTD050
Quant Type: ISTD

Injection Date: 03-OCT-1996 20:45
Init. Calibration Date(s): 07/30/96 09/26/96
Init. Calibration Times: 11:57 12:03
AB396-72-2 Method File: /chem3/ITS5.i/100396.b/abn5.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	1 N-Nitrosodimethylamine	0.635	0.589	0.050	7.2	20.0
$	6 2-Fluorophenol (SS)	1.245	1.259	0.050	1.1	20.0
$	10 Phenol-d6 (SS)	1.231	1.260	0.050	2.4	20.0
	11 Phenol	1.245	1.243	0.050	0.1	20.0
	13 Bis(2-Chloroethyl)Ether	1.075	1.047	0.050	2.5	20.0
	14 2-Chlorophenol	1.261	1.297	0.050	2.8	20.0
	15 1,3-Dichlorobenzene	1.526	1.557	0.050	2.0	20.0
	17 1,4-Dichlorobenzene	1.585	1.636	0.050	3.2	20.0
	18 Benzyl alcohol	0.532	0.556	0.050	4.5	20.0
	19 1,2-Dichlorobenzene	1.444	1.427	0.050	1.2	20.0
	20 2-Methylphenol	0.852	0.872	0.050	2.3	20.0
	21 Bis(2-Chloroisopropyl)ether	1.306	1.230	0.050	5.8	20.0
	26 N-Nitroso-di-n-propylamine	0.905	0.854	0.050	5.6	20.0
	27 4-Methylphenol	0.854	0.867	0.050	1.6	20.0
	28 Hexachloroethane	0.812	0.780	0.050	4.0	20.0
$	29 Nitrobenzene-d5 (SS)	0.485	0.481	0.050	0.7	20.0
	31 Nitrobenzene	0.459	0.438	0.050	4.6	20.0
	33 Isophorone	0.746	0.722	0.050	3.2	20.0
	34 2-Nitrophenol	0.214	0.226	0.050	5.6	20.0
	35 2,4-Dimethylphenol	0.422	0.437	0.050	3.4	20.0
	36 Bis(2-Chloroethoxy)methane	0.418	0.417	0.050	0.4	20.0
	39 2,4-Dichlorophenol	0.345	0.368	0.050	6.7	20.0
	40 Benzoic acid	0.212	0.198	0.050	6.5	20.0
	41 1,2,4-Trichlorobenzene	0.393	0.422	0.050	7.4	20.0
	43 Naphthalene	0.986	1.004	0.050	1.8	20.0
	47 Hexachlorobutadiene	0.322	0.338	0.050	5.1	20.0
	50 4-Chloro-3-methylphenol	0.373	0.403	0.050	8.1	20.0
	53 2-Methylnaphthalene	0.628	0.641	0.050	2.1	20.0
	55 Hexachlorocyclopentadiene	0.554	0.591	0.050	6.7	20.0
	56 2,4,6-Trichlorophenol	0.457	0.500	0.050	9.2	20.0
	57 2,4,5-Trichlorophenol	0.480	0.536	0.050	11.6	20.0
$	58 2-Fluorobiphenyl (SS)	1.429	1.505	0.050	5.3	20.0
	59 2-Chloronaphthalene	1.218	1.276	0.050	4.8	20.0
	64 Dimethyl phthalate	1.574	1.616	0.050	2.7	20.0
	65 Acenaphthylene	1.767	1.804	0.050	2.1	20.0
	66 2,6-Dinitrotoluene	0.358	0.368	0.050	3.1	20.0
	68 Acenaphthene	1.165	1.187	0.050	1.9	20.0
	70 2,4-Dinitrophenol	0.213	0.183	0.050	14.1	20.0
	71 Dibenzofuran	1.604	1.620	0.050	0.9	20.0
	72 4-Nitrophenol	0.369	0.326	0.050	11.6	20.0

8270A
Appendix IX

W.S. Wingert Oct. 4, 1996
ANALYST Date

Inchcape Testing Services - Environmental Laboratories

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ITS5.i
Lab File ID: DN416.d
Analysis Type:
Lab Sample ID: SSTD050
Quant Type: ISTD

Injection Date: 03-OCT-1996 20:45
Init. Calibration Date(s): 07/30/96 09/26/96
Init. Calibration Times: 11:57 12:03
AB396-72-2 Method File: /chem3/ITS5.i/100396.b/abn5.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
74 2,4-Dinitrotoluene	0.483	0.486	0.050	0.5	20.0	
78 Diethyl phthalate	1.672	1.643	0.050	1.7	20.0	
79 Fluorene	1.270	1.319	0.050	3.8	20.0	
80 4-Chlorophenylphenyl ether	0.679	0.703	0.050	3.5	20.0	
84 4,6-Dinitro-2-methylphenol	0.154	0.153	0.050	0.3	20.0	
85 N-Nitrosodiphenylamine	0.428	0.463	0.050	8.3	20.0	
$ 88 2,4,6-Tribromophenol (SS)	0.326	0.308	0.050	5.5	20.0	
93 4-Bromophenylphenyl ether	0.216	0.230	0.050	6.5	20.0	
95 Hexachlorobenzene	0.614	0.594	0.050	3.2	20.0	
98 Pentachlorophenol	0.174	0.126	0.050	27.8	20.0	<-
102 Phenanthrene	0.934	1.019	0.050	9.0	20.0	
103 Anthracene	0.911	1.006	0.050	10.5	20.0	
108 Di-n-butylphthalate	1.354	1.372	0.050	1.3	20.0	
113 Fluoranthene	1.030	1.071	0.050	4.0	20.0	
115 Pyrene	1.512	1.667	0.050	10.3	20.0	
$ 116 Terphenyl-d14 (SS)	1.072	1.161	0.050	8.3	20.0	
122 Butyl benzyl phthalate	0.824	0.805	0.050	2.3	20.0	
124 Benzo(a)anthracene	1.136	1.196	0.050	5.2	20.0	
127 Chrysene	1.218	1.278	0.050	4.9	20.0	
128 Bis(2-ethylhexyl)phthalate	1.056	1.040	0.050	1.6	20.0	
129 Di-n-octylphthalate	1.712	1.702	0.050	0.6	20.0	
130 Benzo(b)fluoranthene	1.181	1.243	0.050	5.2	20.0	
132 Benzo(k)fluoranthene	1.274	1.366	0.050	7.2	20.0	
134 Benzo(a)pyrene	1.016	1.068	0.050	5.1	20.0	
138 Indeno(1,2,3-cd)pyrene	1.174	1.183	0.050	0.7	20.0	
139 Dibenz(a,h)anthracene	0.961	0.981	0.050	2.1	20.0	
140 Benzo(g,h,i)perylene	0.969	0.984	0.050	1.5	20.0	

Data File: /chem3/ITS5.i/100396.b/DN417.d
Report Date: 04-Oct-1996 09:02

Inchcape Testing Services - Environmental Laboratories

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ITS5.i
Lab File ID: DN417.d
Analysis Type:
Lab Sample ID: ANLN050
Quant Type: ISTD

Injection Date: 03-OCT-1996 21:28
Init. Calibration Date(s): 07/30/96 09/26/96
Init. Calibration Times: 11:57 12:03
AB396-56-2 Method File: /chem3/ITS5.i/100396.b/abn5.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
12 Aniline	1.421	1.385	0.050	2.5	20.0
45 4-Chloroaniline	0.433	0.447	0.050	3.4	20.0
62 2-Nitroaniline	0.491	0.474	0.050	3.5	20.0
69 3-Nitroaniline	0.349	0.345	0.050	1.2	20.0
83 4-Nitroaniline	0.338	0.317	0.050	-6.3	20.0
114 Benzidine	0.803	0.727	0.050	9.5	20.0
125 3,3'-Dichlorobenzidine	0.507	0.478	0.050	5.6	20.0
106 Carbazole	1.026	1.031	0.050	0.5	20.0
87 1,2-Diphenylhydrazine	0.908	0.907	0.050	0.1	20.0

Data File: /chem3/ITS5.i/100396.b/DN418.d
Report Date: 04-Oct-1996 09:43

Inchcape Testing Services - Environmental Laboratories

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ITS5.i Injection Date: 03-OCT-1996 22:05
Lab File ID: DN418.d Init. Calibration Date(s): 07/30/96 09/26/96
Analysis Type: Init. Calibration Times: 11:57 12:03
Lab Sample ID: PHEN050 AB396-44-2 Method File: /chem3/ITS5.i/100396.b/abn5.m
Quant Type: ISTD

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
20 2-Methylphenol	0.852	0.857	0.050	0.5	20.0	
30 m,p-Cresol	1.159	0.995	0.050	14.2	20.0	
46 2,6-Dichlorophenol	0.310	0.341	0.050	10.0	20.0	
57 2,4,5-Trichlorophenol	0.480	0.466	0.050	3.0	20.0	
77 2,3,4,6-Tetrachlorophenol	0.323	0.385	0.050	19.1	20.0	
105 Dinoseb	0.166	0.140	0.050	15.8	20.0	
133 Hexachlorophene	++++	++++	0.050	++++	20.0	<-

Data File: /chem3/ITS5.i/100396.b/DN419.d
Report Date: 04-Oct-1996 09:43

Inchcape Testing Services - Environmental Laboratories

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ITS5.i
Lab File ID: DN419.d
Analysis Type:
Lab Sample ID: CHLO050
Quant Type: ISTD

Injection Date: 03-OCT-1996 22:42
Init. Calibration Date(s): 07/30/96 09/26/96
Init. Calibration Times: 11:57 12:03
AB396-45-1 Method File: /chem3/ITS5.i/100396.b/abn5.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
5 Methyl methanesulfonate	1.010	1.184	0.050	17.2	20.0	
8 Ethyl methanesulfonate	1.284	0.982	0.050	23.5	20.0	<-
9 Pentachloroethane	0.609	0.575	0.050	5.6	20.0	
15 1,3-Dichlorobenzene	1.526	1.510	0.050	1.0	20.0	
17 1,4-Dichlorobenzene	1.585	1.511	0.050	-4.7	20.0	
19 1,2-Dichlorobenzene	1.444	1.419	0.050	1.7	20.0	
23 Acetophenone	1.749	1.643	0.050	6.1	20.0	
28 Hexachloroethane	0.812	0.774	0.050	4.7	20.0	
31 Nitrobenzene	0.459	0.458	0.050	0.3	20.0	
33 Isophorone	0.746	0.763	0.050	2.3	20.0	
41 1,2,4-Trichlorobenzene	0.393	0.451	0.050	14.6	20.0	
44 Hexachloropropene	0.230	0.441	0.050	91.7	20.0	<-
47 Hexachlorobutadiene	0.322	0.348	0.050	8.2	20.0	
51 Isosafrole	0.257	0.311	0.050	21.1	20.0	<-
52 Safrole	0.273	0.307	0.050	12.7	20.0	
54 1,2,4,5-Tetrachlorobenzene	0.312	0.438	0.050	40.5	20.0	<-
55 Hexachlorocyclopentadiene	0.554	0.570	0.050	2.8	20.0	
59 2-Chloronaphthalene	1.218	1.270	0.050	4.3	20.0	
61 1,4-Naphthoquinone	0.437	0.468	0.050	7.1	20.0	
63 m-Dinitrobenzene	0.225	0.273	0.050	21.4	20.0	<-
66 2,6-Dinitrotoluene	0.358	0.388	0.050	8.6	20.0	
73 Pentachlorobenzene	0.518	0.747	0.050	44.1	20.0	<-
74 2,4-Dinitrotoluene	0.483	0.525	0.050	8.5	20.0	
90 1,3,5-Trinitrobenzene	0.188	0.326	0.050	73.1	20.0	<-
91 Diallate	0.316	0.293	0.050	7.4	20.0	
95 Hexachlorobenzene	0.614	0.607	0.050	1.2	20.0	
99 Pentachloronitrobenzene	0.125	0.277	0.050	120.8	20.0	<-
100 Pronamide	0.263	0.322	0.050	22.6	20.0	<-
112 Isodrin	0.148	0.173	0.050	17.0	20.0	
117 Aromite	0.051	0.066	0.050	27.9	20.0	<-
119 Chlorobenzilate	0.471	0.434	0.050	7.8	20.0	
120 Kepone	0.132	0.030	0.050	77.6	20.0	<-
131 7,12-Dimethylbenz(a)anthrace	0.442	0.470	0.050	6.3	20.0	
136 3-Methylcholanthrene	0.471	0.496	0.050	5.2	20.0	

Data File: /chem3/ITS5.i/100396.b/DN420.d
Report Date: 04-Oct-1996 09:43

Inchcape Testing Services - Environmental Laboratories

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ITS5.i
Lab File ID: DN420.d
Analysis Type:
Lab Sample ID: AMIN050 AB396-56-2
Quant Type: ISTD

Injection Date: 03-OCT-1996 23:18
Init. Calibration Date(s): 07/30/96 09/26/96
Init. Calibration Times: 11:57 12:03
Method File: /chem3/ITS5.i/100396.b/abn5.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
1 N-Nitrosodimethylamine	0.635	0.607	0.050	4.5	20.0	
2 Pyridine	1.602	1.074	0.050	33.0	20.0	<-
3 2-Picoline	1.472	1.211	0.050	17.7	20.0	
4 N-Nitrosomethylethylamine	0.624	0.452	0.050	27.6	20.0	<-
7 N-Nitrosodiethylamine	0.646	0.508	0.050	21.4	20.0	<-
22 N-Nitrosopyrrolidine	0.688	0.528	0.050	23.2	20.0	<-
24 N-Nitrosomorpholine	0.855	1.004	0.050	17.5	20.0	
25 o-Toluidine	1.759	1.551	0.050	11.8	20.0	
26 N-Nitroso-di-n-propylamine	0.905	0.979	0.050	8.1	20.0	
32 N-Nitrosopiperidine	0.203	0.186	0.050	8.2	20.0	
37 Triethyl thiophosphate	0.147	0.218	0.050	48.0	20.0	<-
38 a,a-Dimethylphenylethylamine	0.983	0.742	0.050	24.5	20.0	<-
48 p-Phenylenediamine	0.641	0.411	0.050	35.9	20.0	<-
49 N-Nitrosodibutylamine	0.263	0.276	0.050	5.0	20.0	
75 2-Naphthylamine	0.811	0.857	0.050	5.7	20.0	
76 1-Naphthylamine	0.989	1.044	0.050	5.5	20.0	
81 5-Nitro-o-toluidine	0.283	0.318	0.050	12.3	20.0	
82 Thionazin	0.366	0.389	0.050	6.3	20.0	
86 N-Nitroso- & Diphenylamine	1.630	1.826	0.050	12.0	20.0	
89 Sulfotep	0.265	0.331	0.050	24.8	20.0	<-
92 Phorate	0.867	0.671	0.050	22.5	20.0	<-
94 Phenacetin	0.588	0.643	0.050	9.4	20.0	
96 Dimethoate	0.380	0.306	0.050	19.5	20.0	
97 4-Aminobiphenyl	1.022	1.124	0.050	9.9	20.0	
104 Disolfonton	0.528	0.347	0.050	34.4	20.0	<-
107 Methyl parathion	0.211	0.200	0.050	5.4	20.0	
109 4-Nitroquinoline-1-oxide	0.057	0.052	0.050	7.6	20.0	
110 Parathion	0.210	0.185	0.050	11.9	20.0	
111 Methapyrilene	0.378	0.270	0.050	28.5	20.0	<-
118 p-(Dimethylamino)azobenzene	0.577	0.422	0.050	26.9	20.0	<-
121 3,3'-Dimethylbenzidine	0.279	0.379	0.050	35.7	20.0	<-
123 2-Actylaminofluorene	0.398	0.466	0.050	17.1	20.0	
125 3,3'-Dichlorobenzidine	0.507	0.433	0.050	14.6	20.0	

Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN416.d
Lab Smp Id: SSTD050 AB396-72-2 Client Smp ID: SSTD050 AB396-72-2
Inj Date : 03-OCT-1996 20:45
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Calibration Standard (exp 8/97)
Misc Info : 50ug/mL 08-29-96 AB396-72-2 BTL# 2
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 04-Oct-1996 09:45 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: STD050.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 N-Nitrosodimethylamine	74.00	2.649	2.649	(0.428)	20608	50.0	46.4(M)
$	6 2-Fluorophenol (SS)	112.00	4.182	4.182	(0.675)	44020	50.0	50.5
$	10 Phenol-d6 (SS)	99.00	5.621	5.621	(0.908)	44077	50.0	51.2
	Phenol	94.00	5.644	5.644	(0.912)	43479	50.0	49.9
	13 Bis(2-Chloroethyl)Ether	93.00	5.784	5.784	(0.934)	36635	50.0	48.7
	14 2-Chlorophenol	128.00	5.842	5.842	(0.944)	45353	50.0	51.4
	15 1,3-Dichlorobenzene	146.00	6.086	6.086	(0.983)	54443	50.0	51.0
*	16 1,4-Dichlorobenzene-d4	152.00	6.191	6.191	(1.000)	27981	40.0	
	17 1,4-Dichlorobenzene	146.00	6.226	6.226	(1.006)	57228	50.0	51.6
	18 Benzyl alcohol	108.00	6.470	6.470	(1.045)	19461	50.0	52.2
	19 1,2-Dichlorobenzene	146.00	6.482	6.482	(1.047)	49906	50.0	49.4
	20 2-Methylphenol	108.00	6.679	6.679	(1.079)	30507	50.0	51.2
	21 Bis(2-Chloroisopropyl)ether	45.00	6.726	6.726	(1.086)	43030	50.0	47.1(M)
	26 N-Nitroso-di-n-propylamine	70.00	6.970	6.970	(1.126)	29870	50.0	47.2
	27 4-Methylphenol	108.00	6.982	6.982	(1.128)	30324	50.0	50.8
	28 Hexachloroethane	117.00	7.087	7.087	(1.145)	27270	50.0	48.0
$	29 Nitrobenzene-d5 (SS)	82.00	7.203	7.203	(0.842)	51543	50.0	49.6
	31 Nitrobenzene	77.00	7.238	7.238	(0.846)	46928	50.0	47.7
	33 Isophorone	82.00	7.702	7.702	(0.901)	77369	50.0	48.4
	34 2-Nitrophenol	139.00	7.830	7.830	(0.916)	24199	50.0	52.8
	35 2,4-Dimethylphenol	107.00	7.970	7.970	(0.932)	46787	50.0	51.7
	36 Bis(2-Chloroethoxy)methane	93.00	8.156	8.156	(0.954)	44628	50.0	49.8
	39 2,4-Dichlorophenol	162.00	8.319	8.319	(0.973)	39442	50.0	53.4
	40 Benzoic acid	122.00	8.284	8.284	(0.969)	21259	50.0	46.7(M)
	41 1,2,4-Trichlorobenzene	180.00	8.447	8.447	(0.988)	45241	50.0	53.7
*	42 Naphthalene-d8	136.00	8.552	8.552	(1.000)	85693	40.0	
	43 Naphthalene	128.00	8.598	8.598	(1.005)	107521	50.0	50.9
	47 Hexachlorobutadiene	225.00	8.854	8.854	(1.035)	36230	50.0	52.6
	50 4-Chloro-3-methylphenol	107.00	9.760	9.760	(1.141)	43159	50.0	54.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
53 2-Methylnaphthalene	142.00	9.981	9.981	(1.167)	68656	50.0	51.0
55 Hexachlorocyclopentadiene	237.00	10.306	10.306	(0.852)	34954	50.0	53.3
56 2,4,6-Trichlorophenol	196.00	10.574	10.574	(0.874)	29531	50.0	54.6
57 2,4,5-Trichlorophenol	196.00	10.655	10.655	(0.881)	31680	50.0	55.8
$ 58 2-Fluorobiphenyl (SS)	172.00	10.760	10.760	(0.890)	88972	50.0	52.6
59 2-Chloronaphthalene	162.00	10.970	10.970	(0.907)	75417	50.0	52.4
64 Dimethyl phthalate	163.00	11.643	11.643	(0.963)	95512	50.0	51.3
65 Acenaphthylene	152.00	11.795	11.795	(0.975)	106633	50.0	51.0
66 2,6-Dinitrotoluene	165.00	11.736	11.736	(0.970)	21783	50.0	51.5
* 67 Acenaphthene-d10	164.00	12.097	12.097	(1.000)	47296	40.0	
68 Acenaphthene	153.00	12.167	12.167	(1.006)	70174	50.0	51.0
70 2,4-Dinitrophenol	184.00	12.295	12.295	(1.016)	10809	50.0	43.0
71 Dibenzofuran	168.00	12.551	12.551	(1.038)	95748	50.0	50.5
72 4-Nitrophenol	109.00	12.527	12.527	(1.036)	19293	50.0	44.2(M)
74 2,4-Dinitrotoluene	165.00	12.586	12.586	(1.040)	28721	50.0	50.2(M)
78 Diethyl phthalate	149.00	13.248	13.248	(1.095)	97162	50.0	49.2
79 Fluorene	166.00	13.410	13.410	(1.109)	77968	50.0	51.9
80 4-Chlorophenylphenyl ether	204.00	13.469	13.469	(1.113)	41553	50.0	51.8
84 4,6-Dinitro-2-methylphenol	198.00	13.620	13.620	(0.846)	15937	50.0	49.9
85 N-Nitrosodiphenylamine	169.00	13.830	13.830	(0.859)	48205	50.0	54.1
$ 88 2,4,6-Tribromophenol (SS)	330.00	14.097	14.097	(1.165)	18192	50.0	47.2
93 4-Bromophenylphenyl ether	248.00	14.899	14.899	(0.926)	23899	50.0	53.2
95 Hexachlorobenzene	284.00	14.992	14.992	(1.239)	35143	50.0	48.4
[illegible] Pentachlorophenol	266.00	15.596	15.596	(0.969)	13069	50.0	36.1
* Phenanthrene-d10	188.00	16.096	16.096	(1.000)	83215	40.0	
102 Phenanthrene	178.00	16.166	16.166	(1.004)	105956	50.0	54.5
103 Anthracene	178.00	16.305	16.305	(1.013)	104674	50.0	55.2
108 Di-n-butylphthalate	149.00	17.907	17.907	(1.113)	142700	50.0	50.7
113 Fluoranthene	202.00	19.220	19.220	(1.194)	111438	50.0	52.0
115 Pyrene	202.00	19.742	19.742	(0.878)	117680	50.0	55.2
$ 116 Terphenyl-d14 (SS)	244.00	20.218	20.218	(0.899)	81928	50.0	54.1
122 Butyl benzyl phthalate	149.00	21.402	21.402	(0.952)	56812	50.0	48.8
124 Benzo(a)anthracene	228.00	22.459	22.459	(0.999)	84394	50.0	52.6
* 126 Chrysene-d12	240.00	22.483	22.483	(1.000)	56462	40.0	
127 Chrysene	228.00	22.541	22.541	(1.003)	90192	50.0	52.4
128 Bis(2-ethylhexyl)phthalate	149.00	22.693	22.693	(1.009)	73393	50.0	49.2
129 Di-n-octylphthalate	149.00	23.993	23.993	(0.947)	108885	50.0	49.7
130 Benzo(b)fluoranthene	252.00	24.609	24.609	(0.972)	79483	50.0	52.6
132 Benzo(k)fluoranthene	252.00	24.668	24.668	(0.974)	87380	50.0	53.6
134 Benzo(a)pyrene	252.00	25.226	25.226	(0.996)	68297	50.0	52.5
* 135 Perylene-d12	264.00	25.331	25.331	(1.000)	51173	40.0	
138 Indeno(1,2,3-cd)pyrene	276.00	27.341	27.341	(1.079)	75674	50.0	50.4
139 Dibenz(a,h)anthracene	278.00	27.376	27.376	(1.081)	62781	50.0	51.1
140 Benzo(g,h,i)perylene	276.00	27.876	27.876	(1.101)	62937	50.0	50.7

QC Flag Legend

M - Compound response manually integrated.

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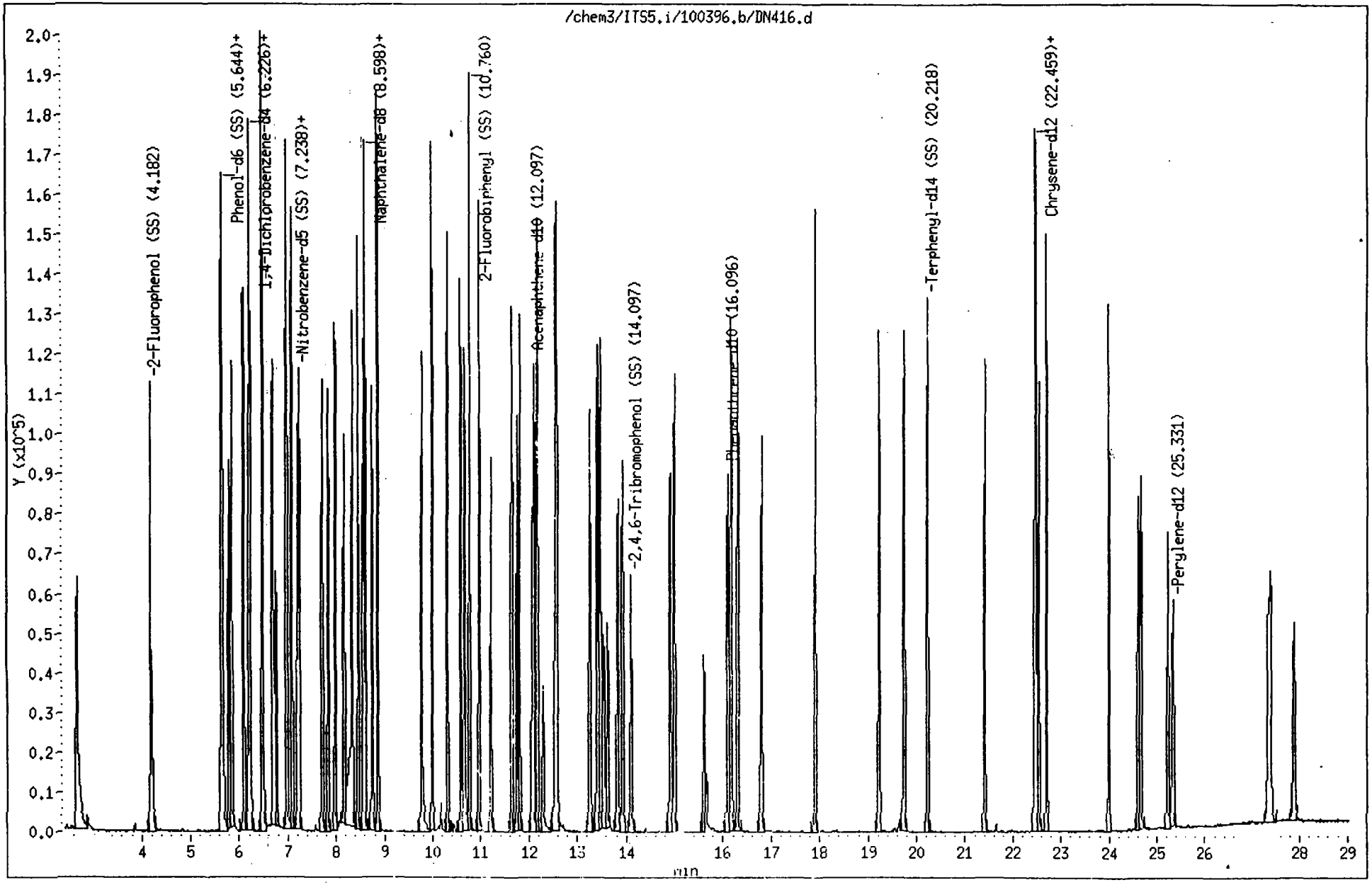
Data File: /chem3/ITS5.i/100396.b/DN416.d
Date : 03-OCT-1996 20:45
Client ID: SSTD050 AB396-72-2
Sample Info: ITS5 Calibration Standard (exp 8/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5



Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN417.d
Lab Smp Id: ANLN050 AB396-56-2 Client Smp ID: ANLN050 AB396-56-2
Inj Date : 03-OCT-1996 21:28
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Aniline Calibration Std (exp 5/97)
Misc Info : 50ug/mL 03-12-96 AB396-56-2 BTL# 3
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 04-Oct-1996 09:43 wsw Quant Type: ISTD
Cal Date : 26-SEP-1996 12:03 Cal File: DN317.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: ANILINE_50.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
12 Aniline	93.00	5.656	5.774	(0.914)	62531	50.0	48.8
45 4-Chloroaniline	127.00	8.732	8.867	(1.022)	61070	50.0	51.7
[illegible] 2-Nitroaniline	65.00	11.216	11.362	(0.927)	36440	50.0	48.3
3-Nitroaniline	138.00	12.063	12.209	(0.997)	26496	50.0	49.4
83 4-Nitroaniline	138.00	13.526	13.729	(1.118)	24354	50.0	46.8(TQM)
* 16 1,4-Dichlorobenzene-d4	152.00	6.190	6.191	(1.000)	36113	40.0	
* 42 Naphthalene-d8	136.00	8.546	8.548	(1.000)	109178	40.0	
* 67 Acenaphthene-d10	164.00	12.098	12.089	(1.000)	61502	40.0	
* 101 Phenanthrene-d10	188.00	16.103	16.097	(1.000)	99163	40.0	(T)
* 126 Chrysene-d12	240.00	22.476	22.471	(1.000)	78666	40.0	(T)
* 135 Perylene-d12	264.00	25.333	25.327	(1.000)	76816	40.0	(T)
114 Benzidine	184.00	19.643	19.810	(0.874)	71485	50.0	45.3(T)
125 3,3'-Dichlorobenzidine	252.00	22.465	22.459	(0.999)	47041	50.0	47.2(T)
106 Carbazole	167.00	16.811	16.979	(1.044)	127780	50.0	50.2(T)
87 1,2-Diphenylhydrazine	77.00	13.933	14.136	(0.865)	112445	50.0	49.9(T)

QC Flag Legend

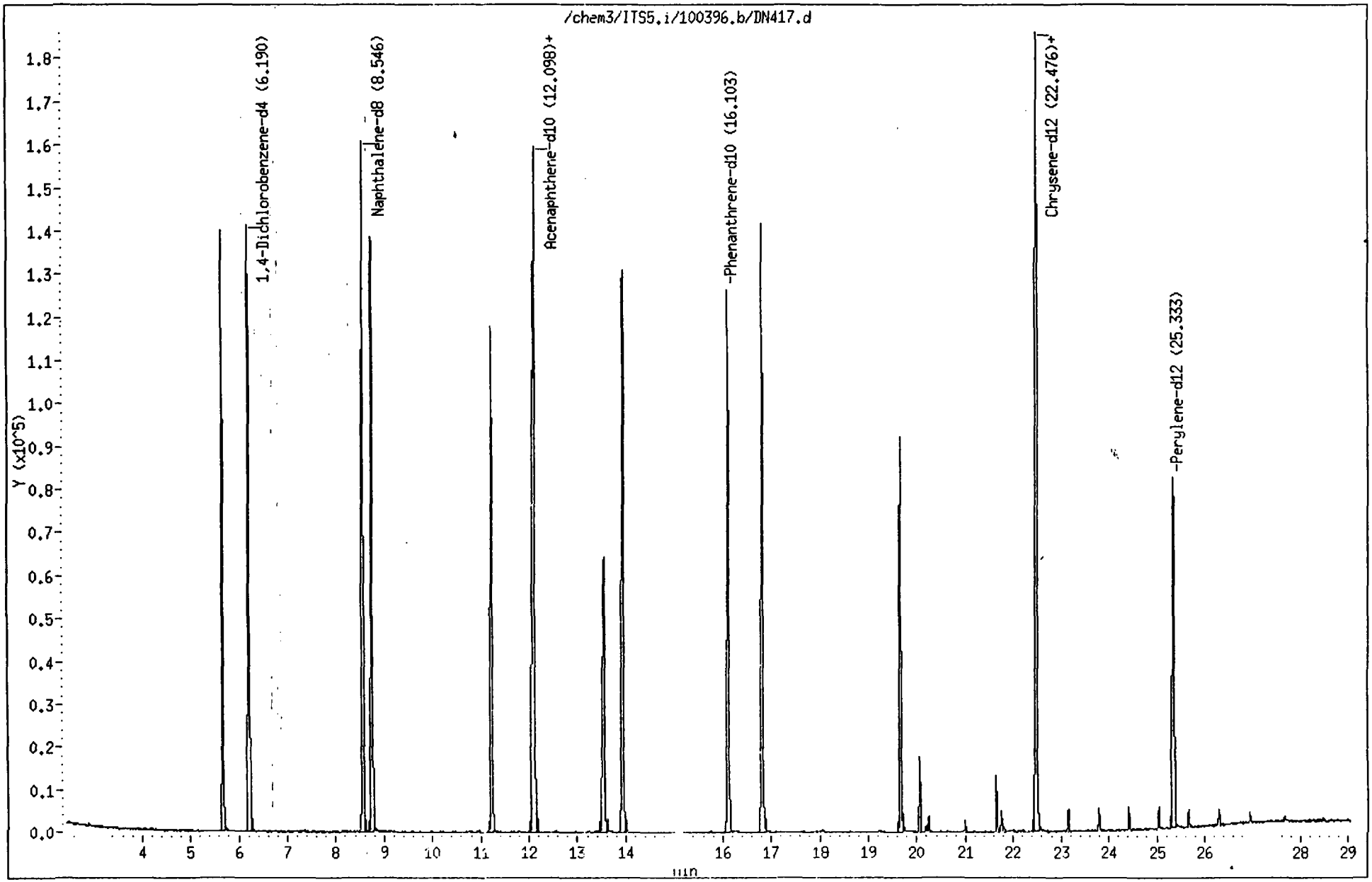
T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem3/ITS5.i/100396.b/DN417.d
Date : 03-OCT-1996 21:28
Client ID: ANLN050 AB396-56-2
Sample Info: ITS5 Aniline Calibration Std (exp 5/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN418.d
Lab Smp Id: PHEN050 AB396-44-2 Client Smp ID: PHEN050 AB396-44-2
Inj Date : 03-OCT-1996 22:05
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Phenols Mix Standard (exp 1/97)
Misc Info : 50ug/mL 02-07-96 AB396-44-2 BTL# 4
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 04-Oct-1996 09:43 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 22:05 Cal File: DN418.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Phen.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 16 1,4-Dichlorobenzene-d4	152.00	6.199	6.191	(1.000)	24420	40.0	
20 2-Methylphenol	108.00	6.675	6.675	(1.077)	26155	50.0	50.3
29 m,p-Cresol	107.00	6.977	6.977	(1.125)	60739	100	85.8
* Naphthalene-d8	136.00	8.544	8.548	(1.000)	74799	40.0	
46 2,6-Dichlorophenol	162.00	8.741	8.741	(1.023)	31855	50.0	55.0(M)
57 2,4,5-Trichlorophenol	196.00	10.656	10.656	(0.881)	24976	50.0	48.5
* 67 Acenaphthene-d10	164.00	12.095	12.089	(1.000)	42921	40.0	
77 2,3,4,6-Tetrachlorophenol	232.00	12.861	12.861	(1.063)	20635	50.0	59.6(M)
* 101 Phenanthrene-d10	188.00	16.088	16.097	(1.000)	67573	40.0	
105 Dinoseb	211.00	16.216	16.216	(1.008)	11792	50.0	42.1(M)
* 126 Chrysene-d12	240.00	22.470	22.471	(1.000)	61300	40.0	
* 135 Perylene-d12	264.00	25.327	25.327	(1.000)	54441	40.0	

QC Flag Legend

M - Compound response manually integrated.

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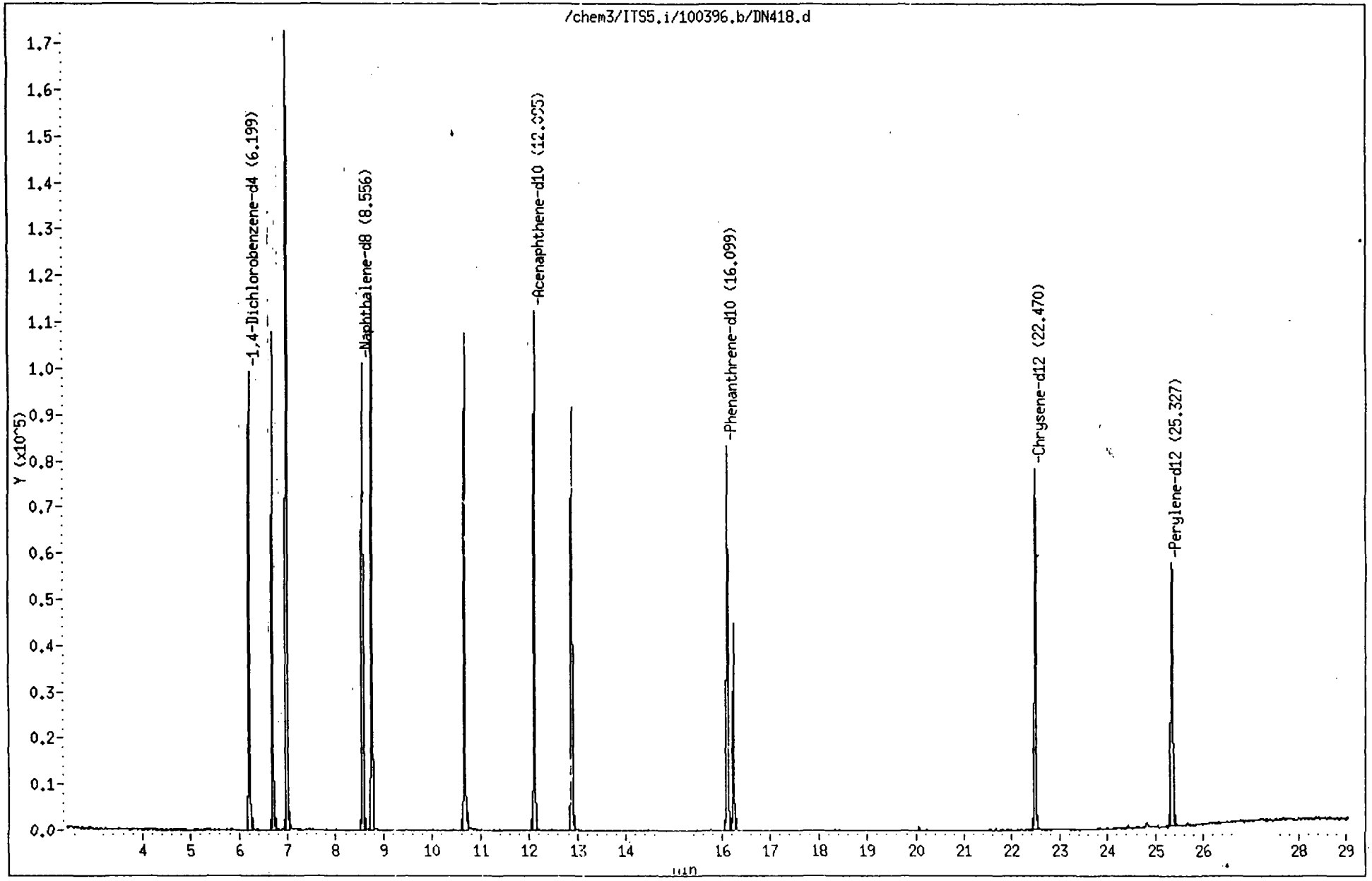
Data File: /chem3/ITS5.i/100396.b/DN418.d
Date : 03-OCT-1996 22:05
Client ID: PHEN050 AB396-44-2
Sample Info: ITS5 Phenols Mix Standard (exp 1/97)

Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN419.d
Lab Smp Id: CHL0050 AB396-45-1 Client Smp ID: CHL0050 AB396-45-1
Inj Date : 03-OCT-1996 22:42
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Chlorinated Std (exp 1/97)
Misc Info : 50ug/mL 02-07-96 AB396-45-1 BTL# 5
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 04-Oct-1996 09:43 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 22:42 Cal File: DN419.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Chloro.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
5 Methyl methanesulfonate	80.00	3.992	3.992	(0.644)	40026	50.0	58.6(M)
8 Ethyl methanesulfonate	79.00	4.991	4.991	(0.805)	33193	50.0	38.2(M)
9 Pentachloroethane	117.00	5.710	5.710	(0.921)	19442	50.0	47.2(M)
1,3-Dichlorobenzene	146.00	6.093	6.093	(0.983)	51029	50.0	49.5
* 16 1,4-Dichlorobenzene-d4	152.00	6.198	6.191	(1.000)	27038	40.0	
17 1,4-Dichlorobenzene	146.00	6.233	6.233	(1.006)	51069	50.0	47.6
19 1,2-Dichlorobenzene	146.00	6.488	6.488	(1.047)	47972	50.0	49.2
23 Acetophenone	105.00	6.929	6.929	(1.118)	55535	50.0	47.0(M)
28 Hexachloroethane	117.00	7.080	7.080	(1.142)	26162	50.0	47.7
31 Nitrobenzene	77.00	7.231	7.231	(0.845)	44020	50.0	49.8
33 Isophorone	82.00	7.696	7.696	(0.900)	73357	50.0	51.1(M)
41 1,2,4-Trichlorobenzene	180.00	8.450	8.450	(0.988)	43355	50.0	57.3
* 42 Naphthalene-d8	136.00	8.555	8.548	(1.000)	76939	40.0	
44 Hexachloropropene	213.00	8.764	8.764	(1.024)	42405	50.0	95.8(M)
47 Hexachlorobutadiene	225.00	8.857	8.857	(1.035)	33501	50.0	54.1
51 Isosafrole	162.00	9.856	9.856	(1.152)	29884	50.0	60.6(M)
52 Safrole	162.00	10.901	10.901	(0.901)	17378	50.0	56.3(M)
54 1,2,4,5-Tetrachlorobenzene	216.00	10.320	10.320	(1.206)	42153	50.0	70.2(M)
55 Hexachlorocyclopentadiene	237.00	10.308	10.308	(0.852)	32232	50.0	51.4
59 2-Chloronaphthalene	162.00	10.959	10.959	(0.906)	71873	50.0	52.2
61 1,4-Naphthoquinone	158.00	11.342	11.342	(0.938)	26500	50.0	53.6(M)
63 m-Dinitrobenzene	168.00	11.667	11.667	(0.964)	15475	50.0	60.7(M)
66 2,6-Dinitrotoluene	165.00	11.737	11.737	(0.970)	21971	50.0	54.3
* 67 Acenaphthene-d10	164.00	12.097	12.089	(1.000)	45271	40.0	
73 Pentachlorobenzene	250.00	12.457	12.457	(1.030)	42253	50.0	72.0(M)
74 2,4-Dinitrotoluene	165.00	12.585	12.585	(1.040)	29681	50.0	54.2(M)
90 1,3,5-Trinitrobenzene	75.00	14.698	14.698	(1.215)	18428	50.0	86.5(M)
91 Diallate	86.00	14.744	14.744	(1.219)	16593	50.0	46.3(M)
95 Hexachlorobenzene	284.00	14.988	14.988	(1.239)	34326	50.0	49.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
99 Pentachloronitrobenzene	237.00	15.627	15.627	(1.292)	15656	50.0	110(M)
100 Pronamide	173.00	15.941	15.941	(0.990)	29250	50.0	61.3(M)
* 101 Phenanthrene-d10	188.00	16.104	16.097	(1.000)	72702	40.0	
112 Isodrin	193.00	18.843	18.843	(1.170)	15731	50.0	58.5(M)
117 Aromite	185.00	20.271	20.271	(1.259)	5978	50.0	63.9(M)
119 Chlorobenzilate	251.00	20.701	20.701	(0.921)	36362	50.0	46.1(M)
120 Kepone	272.00	21.304	21.304	(0.948)	2471	50.0	11.2(M)
* 126 Chrysene-d12	240.00	22.477	22.471	(1.000)	66958	40.0	
131 7,12-Dimethylbenz(a)anthracen	256.00	24.602	24.602	(1.095)	39320	50.0	53.1(M)
* 135 Perylene-d12	264.00	25.334	25.327	(1.000)	64669	40.0	
136 3-Methylcholanthrene	268.00	25.892	25.892	(1.022)	40089	50.0	52.6(M)

QC Flag Legend

M - Compound response manually integrated.

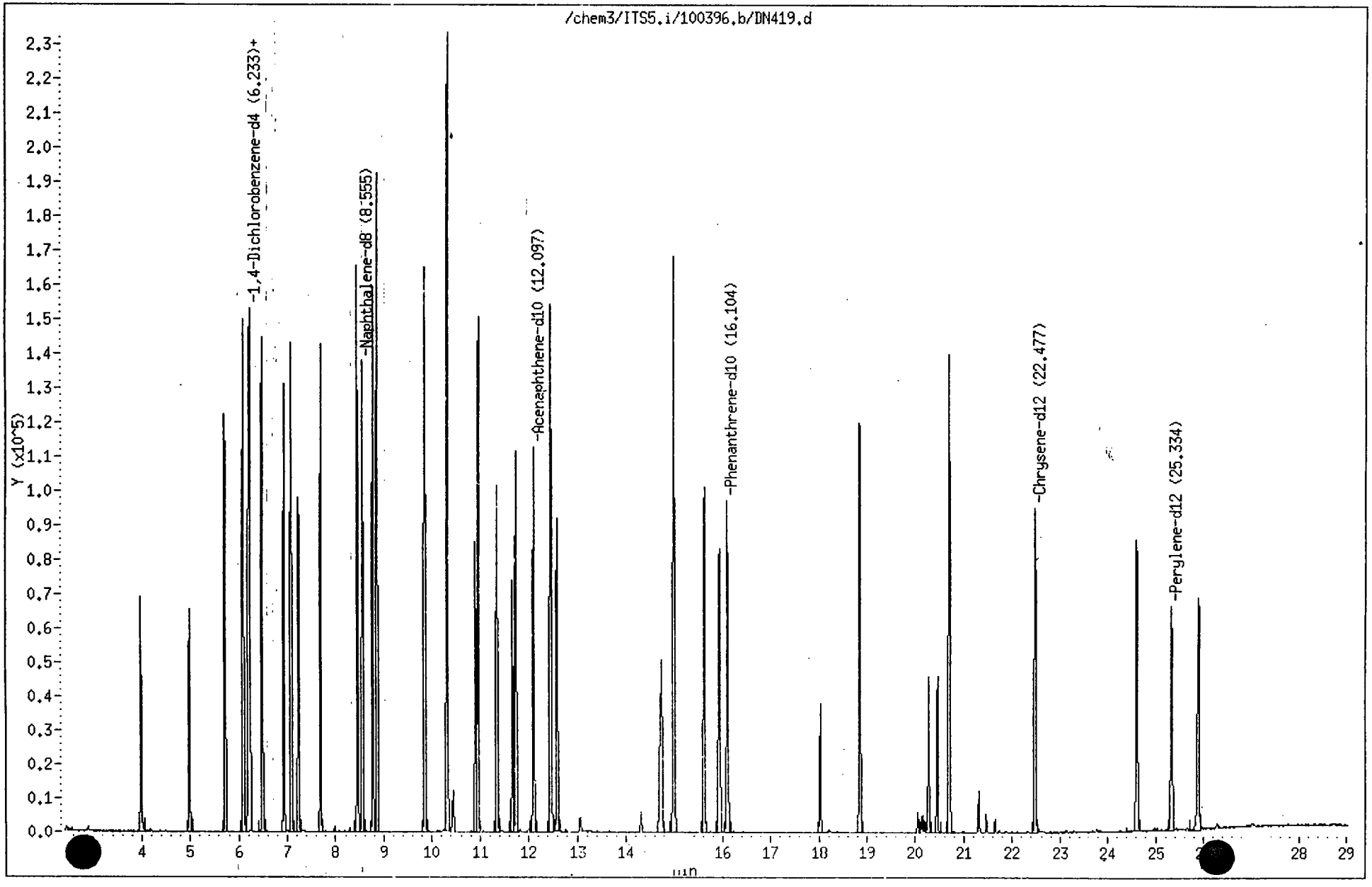
386

Data File: /chem3/ITS5.i/100396.b/DN419.d
Date : 03-OCT-1996 22:42
Client ID: CHL0050 AB396-45-1
Sample Info: ITS5 Appendix IX Chlorinated Std (exp 1/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5



Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN420.d
Lab Smp Id: AMIN050 AB396-56-2 Client Smp ID: AMIN050 AB396-56-2
Inj Date : 03-OCT-1996 23:18
Operator : WSW Inst ID: ITS5.i
Smp Info : ITS5 Appendix IX Amine Group Std (exp 1/97)
Misc Info : 50ug/mL 03-12-96 AB396-56-2 BTL# 6
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 04-Oct-1996 09:43 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 23:18 Cal File: DN420.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Amine.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 N-Nitrosodimethylamine	74.00	2.662	2.662	(0.430)	16930	50.0	47.8
	2 Pyridine	79.00	2.674	2.674	(0.432)	29963	50.0	33.5
	3 2-Picoline	93.00	3.440	3.440	(0.556)	33801	50.0	41.1(M)
	N-Nitrosomethylethylamine	88.00	3.591	3.591	(0.580)	12614	50.0	36.2(M)
	7 N-Nitrosodiethylamine	102.00	4.519	4.519	(0.730)	14180	50.0	39.3(M)
*	16 1,4-Dichlorobenzene-d4	152.00	6.191	6.191	(1.000)	22325	40.0	
	22 N-Nitrosopyrrolidine	100.00	6.910	6.910	(1.116)	14742	50.0	38.4(M)
	24 N-Nitrosomorpholine	56.00	6.992	6.992	(1.129)	28031	50.0	58.8(M)
	25 o-Toluidine	106.00	7.004	7.004	(1.131)	43277	50.0	44.1(M)
	26 N-Nitroso-di-n-propylamine	70.00	6.969	6.969	(1.126)	27307	50.0	54.1(M)
	32 N-Nitrosopiperidine	114.00	7.526	7.526	(0.880)	15221	50.0	45.9(M)
	37 Triethyl thiophosphate	198.00	8.107	8.107	(0.948)	17813	50.0	74.0(M)
	38 a,a-Dimethylphenylethylamine	58.00	8.374	8.374	(0.980)	60645	50.0	37.7(M)
*	42 Naphthalene-d8	136.00	8.548	8.548	(1.000)	65408	40.0	
	48 p-Phenylenediamine	108.00	8.548	8.548	(1.381)	11469	50.0	32.0(M)
	49 N-Nitrosodibutylamine	84.00	9.454	9.454	(1.106)	22538	50.0	52.5(M)
*	67 Acenaphthene-d10	164.00	12.089	12.089	(1.000)	39824	40.0	
	75 2-Naphthylamine	143.00	12.739	12.739	(1.054)	42652	50.0	52.8(M)
	76 1-Naphthylamine	143.00	12.937	12.937	(1.070)	51963	50.0	52.7(M)
	81 5-Nitro-o-toluidine	152.00	13.494	13.494	(1.116)	15831	50.0	56.1(M)
	82 Thionazin	97.00	13.447	13.447	(1.112)	19375	50.0	53.2(M)
	86 N-Nitroso- & Diphenylamine	169.00	13.831	13.831	(1.144)	90889	50.0	56.0(M)
	89 Sulfotep	97.00	14.424	14.424	(1.193)	16471	50.0	62.4(M)
	92 Phorate	75.00	14.761	14.761	(1.221)	33425	50.0	38.7(M)
	94 Phenacetin	108.00	14.854	14.854	(1.229)	32010	50.0	54.7(M)
	96 Dimethoate	87.00	15.226	15.226	(1.260)	15245	50.0	40.2(M)
	97 4-Aminobiphenyl	169.00	15.667	15.667	(1.296)	55930	50.0	55.0(M)
*	101 Phenanthrene-d10	188.00	16.097	16.097	(1.000)	57416	40.0	
	104 Disolfonton	88.00	16.271	16.271	(1.011)	24879	50.0	32.8(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
107 Methyl parathion	109.00	17.258	17.258	(1.072)	14358	50.0	47.3(M)
109 4-Nitroquinoline-1-oxide	190.00	18.244	18.244	(1.133)	3767	50.0	46.2(M)
110 Parathion	97.00	18.291	18.291	(1.136)	13288	50.0	44.1(M)
111 Methapyrilene	58.00	18.547	18.547	(1.152)	19404	50.0	35.7(M)
118 p-(Dimethylamino)azobenzene	120.00	20.554	20.554	(0.915)	22205	50.0	36.6(M)
121 3,3'-Dimethylbenzidine	212.00	21.309	21.309	(1.324)	27167	50.0	67.8(M)
123 2-Actylaminofluorene	181.00	21.855	21.855	(0.973)	24517	50.0	58.5(M)
125 3,3'-Dichlorobenzidine	252.00	22.459	22.459	(0.999)	22787	50.0	42.7
* 126 Chrysene-d12	240.00	22.471	22.471	(1.000)	42117	40.0	
* 135 Perylene-d12	264.00	25.327	25.327	(1.000)	39274	40.0	

QC Flag Legend

M - Compound response manually integrated.

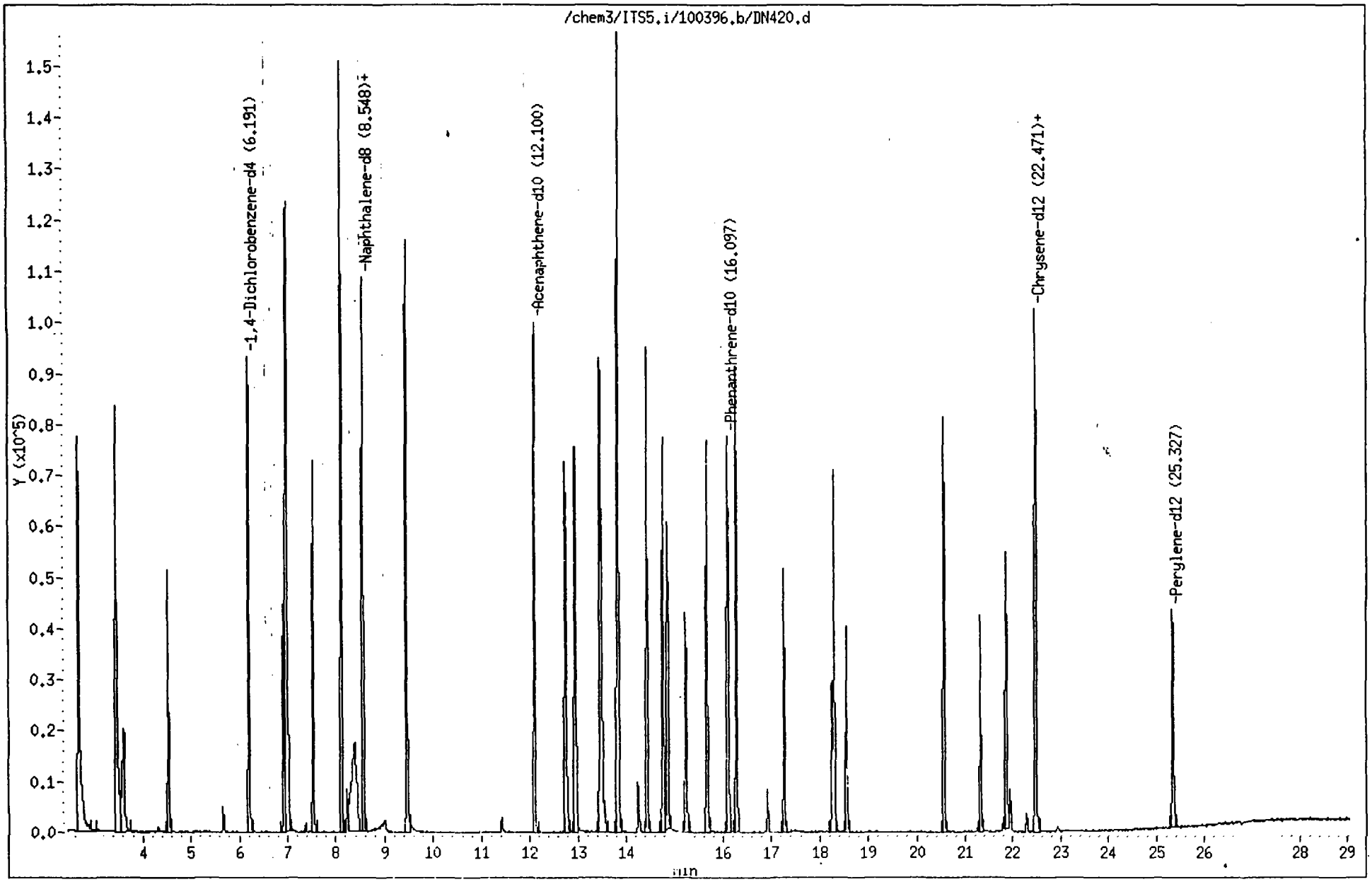
389

Data File: /chem3/ITS5.i/100396.b/DN420.d
Date : 03-OCT-1996 23:18
Client ID: AMIN050 AB396-56-2
Sample Info: ITS5 Appendix IX Amine Group Std (exp 1/97)

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25

Column phase: DB-5



RAW QUALITY CONTROL DATA

Data File: /chem3/ITS5.i/092696.b/DN316.d

Page 1

Date : 26-SEP-96 11:39

Client ID: ITS5 DFTPP 04-01-96

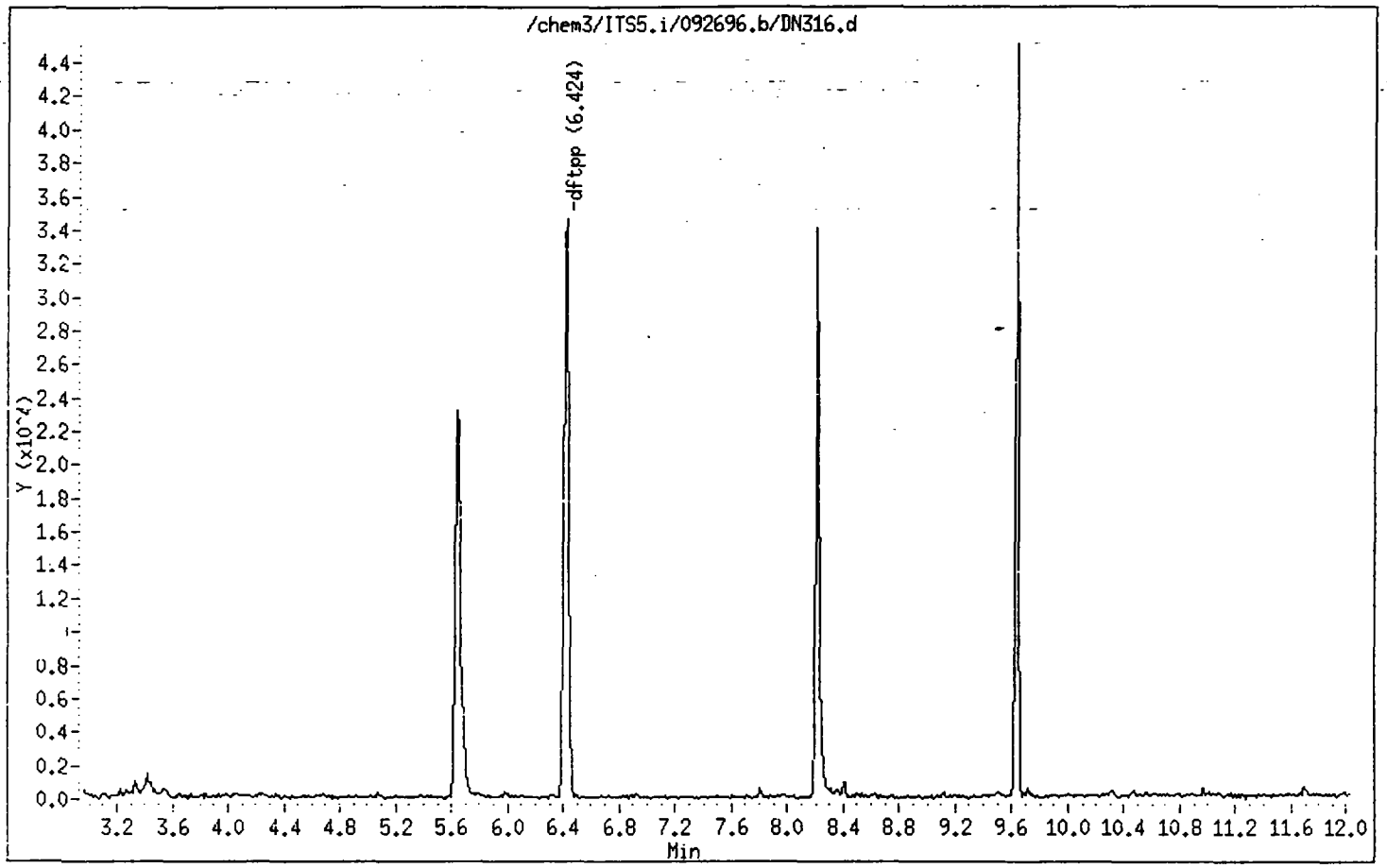
Instrument: ITS5.i

Sample Info: ITS5 DFTPP

Operator: Instrument ITS5

Column phase: DB-5

Column diameter: 0.25



Data File: /chem3/ITS5.i/092696.b/DN316.d

Date : 26-SEP-96 11:39

Client ID: ITS5 DFTPP 04-01-96

Instrument: ITS5.i

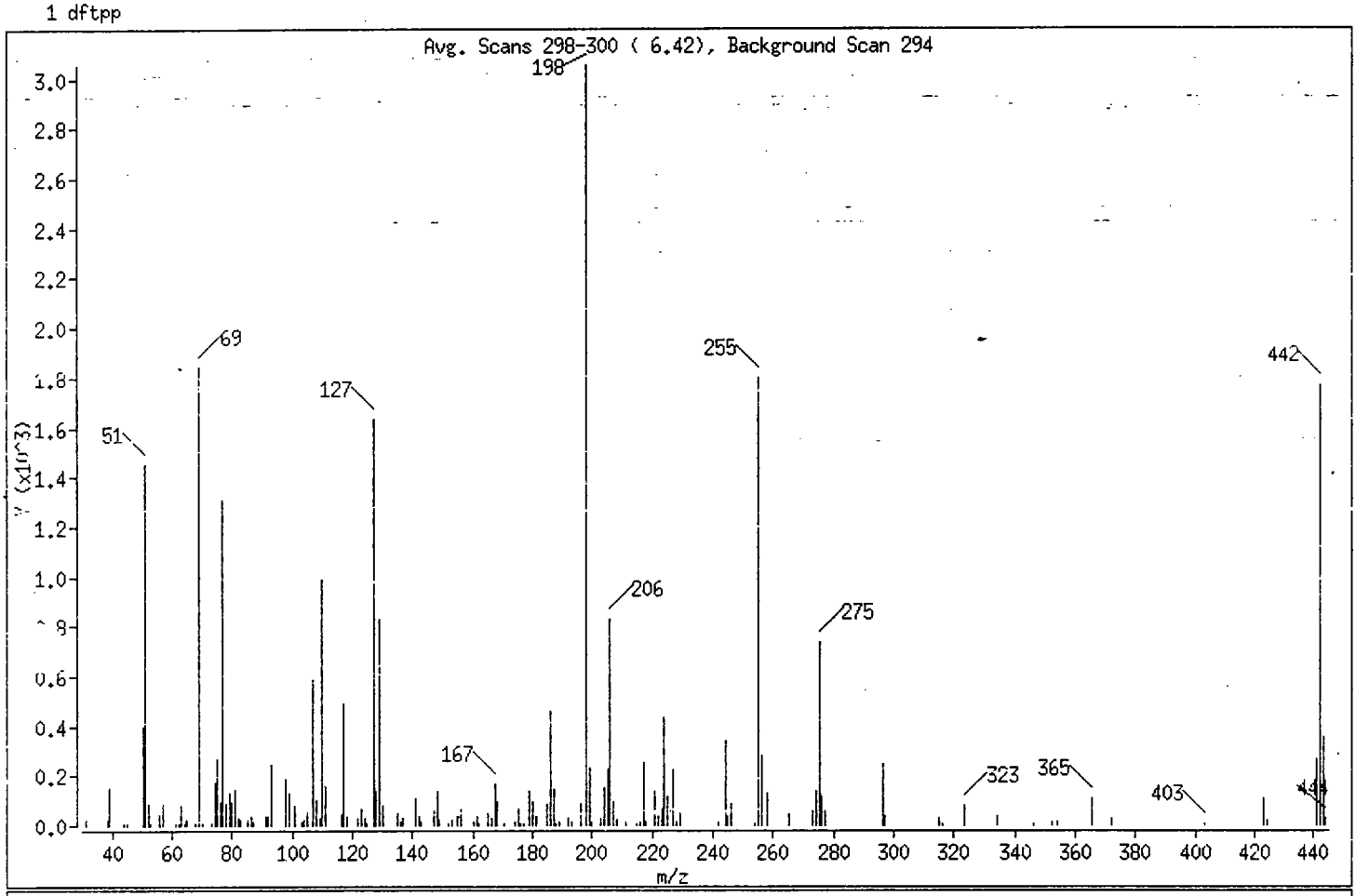
Sample Info: ITS5 DFTPP

Operator: Instrument ITS5

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.45
68	Less than 2.00% of mass 69	0.33 (0.54)
69	Mass 69 relative abundance	60.24
70	Less than 2.00% of mass 69	0.26 (0.43)
127	40.00 - 60.00% of mass 198	53.44
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.53
275	10.00 - 30.00% of mass 198	24.12
365	Greater than 1.00% of mass 198	3.47
441	Present, but less than mass 443	8.80
442	40.00 - 110.00% of mass 198	57.82
443	17.00 - 23.00% of mass 442	11.65 (20.15)

Data File: /chem3/ITS5.i/092696.b/DN316.d

Date : 26-SEP-96 11:39

lient ID: ITS5 DFTPP 04-01-96

Instrument: ITS5.i

Sample Info: ITS5 DFTPP

Operator: Instrument ITS5

Column phase: DB-5

Column diameter: 0.25

Data File: DN316.d

Spectrum : Avg. Scans 298-300 (6.42), Background Scan 294

Largest m/z: 198.05

Number of peaks: 148

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	25	101.05	77	167.10	169	228.00	16
38.10	19	102.95	16	168.00	97	229.00	47
39.00	149	104.05	23	170.60	7	242.00	16
43.50	9	105.05	53	174.10	15	244.10	340
44.90	6	107.05	584	175.05	62	245.00	37
50.10	399	108.05	99	175.85	10	246.00	89
51.10	1450	109.05	29	176.85	7	254.00	9
52.00	85	110.05	991	178.95	134	255.10	1802
53.00	6	111.05	159	179.95	91	256.10	279
56.00	41	116.15	42	181.05	37	258.10	130
57.00	88	117.05	494	185.05	89	265.00	45
61.00	9	118.05	34	186.05	462	273.10	55
62.30	6	122.05	28	187.05	144	274.05	137
63.10	79	123.05	67	188.05	7	275.05	737
64.40	10	124.15	27	188.95	14	276.05	113
64.80	19	125.00	10	192.05	27	277.05	59
68.00	10	127.00	1633	193.15	16	296.05	246
69.00	1841	128.00	134	196.05	89	297.05	34
70.20	8	129.00	833	198.05	3056	315.05	32
73.00	7	130.00	81	199.05	230	316.05	9
74.10	177	135.00	54	200.05	11	323.10	80
75.05	267	136.00	12	202.95	26	334.10	38
76.05	91	137.00	29	204.05	151	345.90	8
77.05	1307	141.00	106	205.05	222	352.00	12
78.05	90	142.10	38	206.05	830	354.00	12
79.05	129	143.00	12	207.05	94	365.10	106
80.05	94	147.00	59	208.05	30	372.00	26
81.05	141	148.00	139	211.05	13	402.95	10
82.05	32	149.00	23	215.05	8	423.10	106
82.95	23	151.80	7	216.25	18	424.20	22
85.05	25	153.00	21	216.95	254	441.10	269
86.15	33	155.00	42	217.85	12	442.10	1767
87.05	11	156.10	66	221.05	140	443.10	356
90.95	37	160.10	13	221.75	37	444.10	28
91.95	37	161.10	39	223.15	63		

Data File: /chem3/ITS5.i/092696.b/DN316.d

Date : 26-SEP-96 11:39

lient ID: ITS5 DFTPP 04-01-96

Instrument: ITS5.i

Sample Info: ITS5 DFTPP

Operator: Instrument ITS5

Column phase: DB-5

Column diameter: 0.25

Data File: DN316.d
Spectrum : Avg. Scans 298-300 (6.42), Background Scan 294
Largest m/z: 198.05
Number of peaks: 148

m/z	Y	m/z	Y	m/z	Y	m/z	Y
93.05	244	162.00	7	224.00	431		
97.95	189	165.10	53	225.00	116		
99.05	132	166.00	32	227.00	222		

Data File: /chem3/ITS5.i/100396.b/DN415.d

Page 1

Date : 03-OCT-96 20:26

Client ID: ITS5 DFTPP 04-01-96

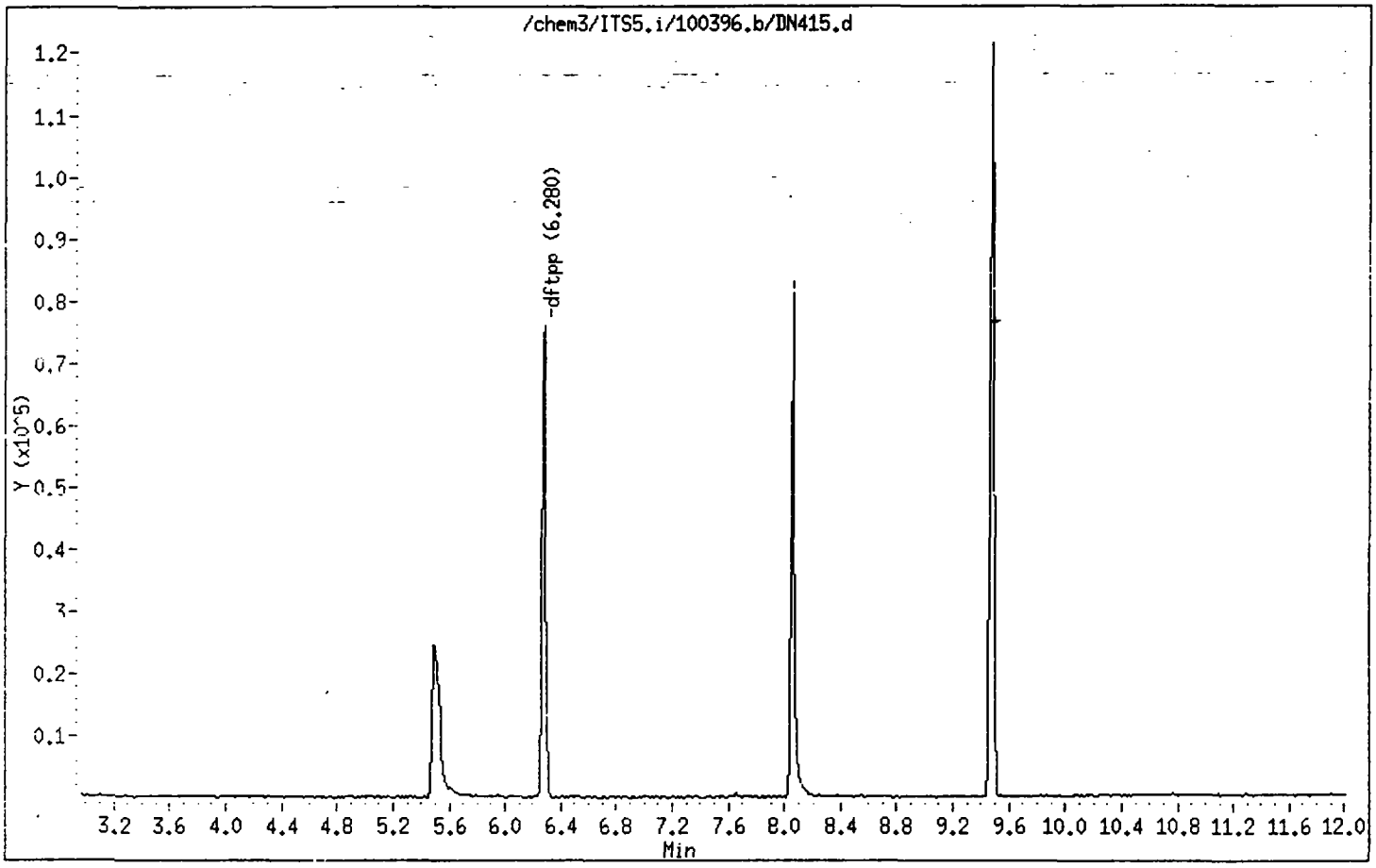
Instrument: ITS5.i

Sample Info: ITS5 DFTPP

Operator: Instrument ITS5

Column phase: DB-5

Column diameter: 0.25



Data File: /chem3/ITS5.i/100396.b/DN415.d

Date : 03-OCT-96 20:26

Client ID: ITS5 DFTPP 04-01-96

Instrument: ITS5.i

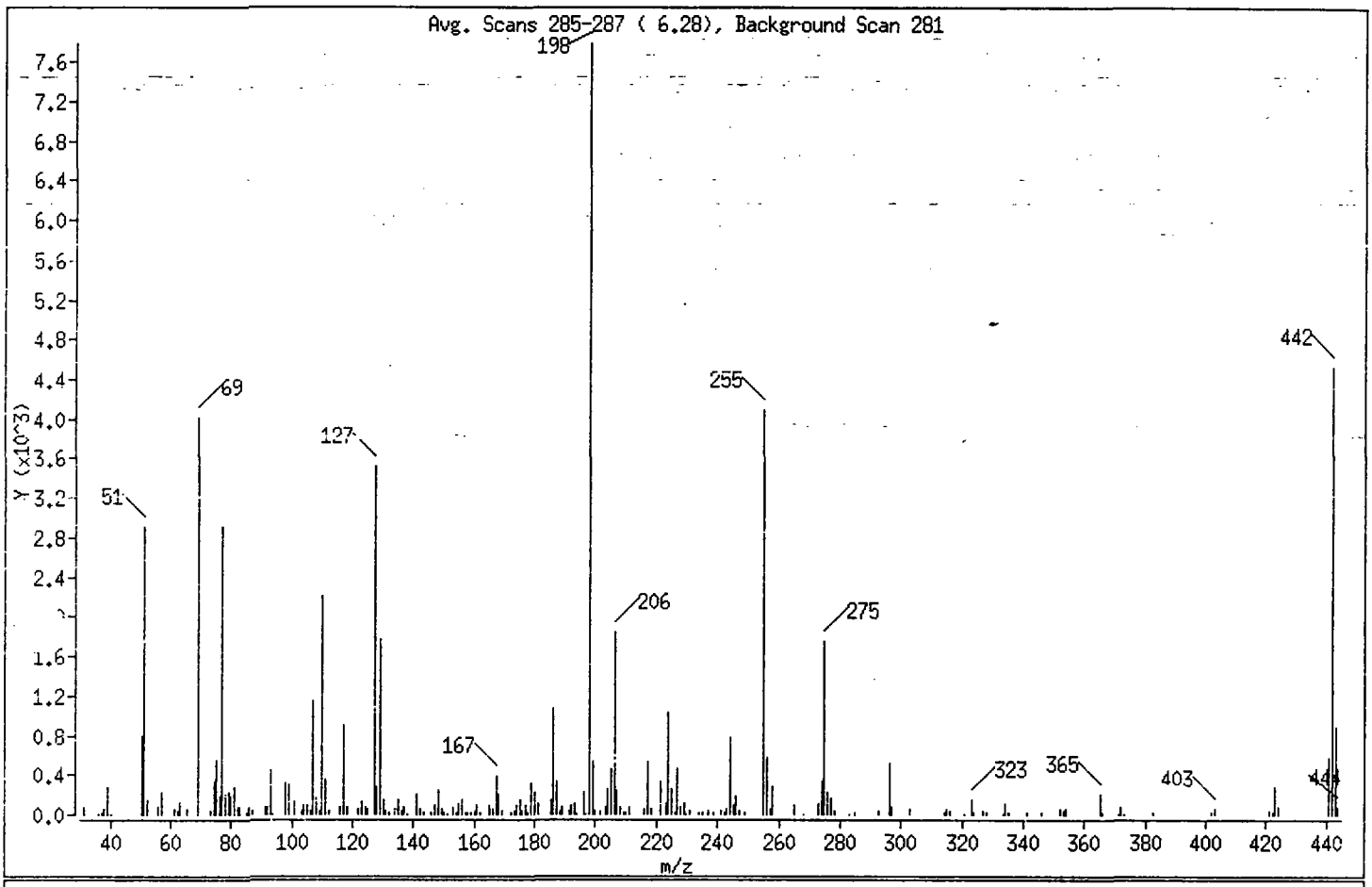
Sample Info: ITS5 DFTPP

Operator: Instrument ITS5

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	37.44
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	51.55
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	45.19
197	Less than 1.00% of mass 198	0.12
199	5.00 - 9.00% of mass 198	6.75
275	10.00 - 30.00% of mass 198	22.39
365	Greater than 1.00% of mass 198	2.67
441	Present, but less than mass 443	7.28
442	40.00 - 110.00% of mass 198	58.11
443	17.00 - 23.00% of mass 442	11.23 (19.33)

Data File: /chem3/ITS5.i/100396.b/DN415.d
Date : 03-OCT-96 20:26
Client ID: ITS5 DFTPP 04-01-96
Sample Info: ITS5 DFTPP

Instrument: ITS5.i

Operator: Instrument ITS5

Column phase: DB-5

Column diameter: 0.25

Data File: DN415.d
Spectrum : Avg. Scans 285-287 (6.28), Background Scan 281
Largest m/z: 197.95
Number of peaks: 198

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	70	122.05	50	186.05	1073	257.10	49
36.00	6	122.95	133	186.95	330	258.00	267
37.20	20	124.05	71	188.05	38	265.00	98
38.00	51	125.00	63	188.95	74	267.80	7
39.00	274	127.00	3520	191.05	34	273.00	115
40.10	9	128.00	281	191.95	100	274.05	338
50.10	793	129.00	1771	193.05	104	274.95	1744
51.10	2916	129.90	141	193.85	8	275.95	226
52.10	153	130.90	42	196.05	225	276.95	164
56.00	75	132.20	18	196.75	9	278.05	29
57.00	218	134.00	48	197.95	7789	282.95	9
61.00	53	135.00	155	198.95	526	284.95	13
62.10	45	135.90	30	199.95	37	292.85	38
63.00	131	137.00	77	201.25	38	296.05	513
65.10	55	137.90	9	203.05	75	297.05	70
69.00	4015	141.00	203	204.05	265	303.05	64
73.10	31	142.00	62	205.05	463	314.05	26
74.10	328	143.10	16	206.05	1845	314.95	64
75.00	557	145.90	21	207.05	236	315.95	29
76.05	185	147.10	98	208.05	69	321.05	8
77.05	2907	148.00	234	209.15	23	323.05	151
78.05	210	149.10	60	209.95	26	324.00	22
79.05	228	150.00	14	210.95	79	327.10	29
79.95	180	151.00	9	216.15	52	328.20	19
80.95	279	153.00	70	217.05	540	333.20	7
81.95	78	154.10	18	218.05	49	334.00	108
83.05	73	155.00	110	221.05	333	335.00	11
85.05	16	156.10	145	223.05	114	341.10	10
85.95	81	157.10	27	224.00	1032	346.00	17
86.85	29	158.00	24	225.00	259	352.00	52
91.05	69	159.10	11	226.20	18	353.00	32
91.95	76	160.00	46	227.00	455	354.00	57
93.05	444	161.00	90	228.00	76	365.00	208
93.85	9	162.00	21	228.90	107	366.00	14
98.05	321	165.00	92	229.90	9	371.10	7

Data File: /chem3/ITS5.i/100396.b/DN415.d
Date : 03-OCT-96 20:26
Client ID: ITS5 DFTPP 04-01-96 Instrument: ITS5.i
Sample Info: ITS5 DFTPP

Operator: Instrument ITS5
Column phase: DB-5 Column diameter: 0.25

Data File: DN415.d
Spectrum : Avg. Scans 285-287 (6.28), Background Scan 281
Largest m/z: 197.95
Number of peaks: 198

m/z	Y	m/z	Y	m/z	Y	m/z	Y
99.05	300	166.10	62	231.00	31	372.00	82
101.05	128	167.10	392	233.90	25	372.95	9
103.05	38	168.10	198	234.90	26	382.85	11
103.95	84	169.10	44	237.00	30	401.85	27
105.05	91	172.00	16	238.90	10	403.05	55
106.15	30	173.10	41	240.90	31	421.05	34
107.05	1150	174.10	96	242.00	26	421.95	13
107.95	161	175.05	141	243.00	56	423.00	268
109.05	37	175.75	32	244.00	772	424.00	67
110.05	2204	177.05	85	245.00	101	441.00	567
111.05	344	177.75	12	246.00	177	442.00	4526
111.95	30	178.95	314	247.00	36	443.00	875
116.05	80	180.05	218	248.90	16	444.00	81
117.05	909	180.95	102	255.00	4094		
118.05	67	185.05	144	256.00	567		

Data File: /chem3/ITS5.i/073196.b/DM672.d

Date : 31-JUL-1996 08:48

Client ID: ITS5 DFTPP 04-01-96

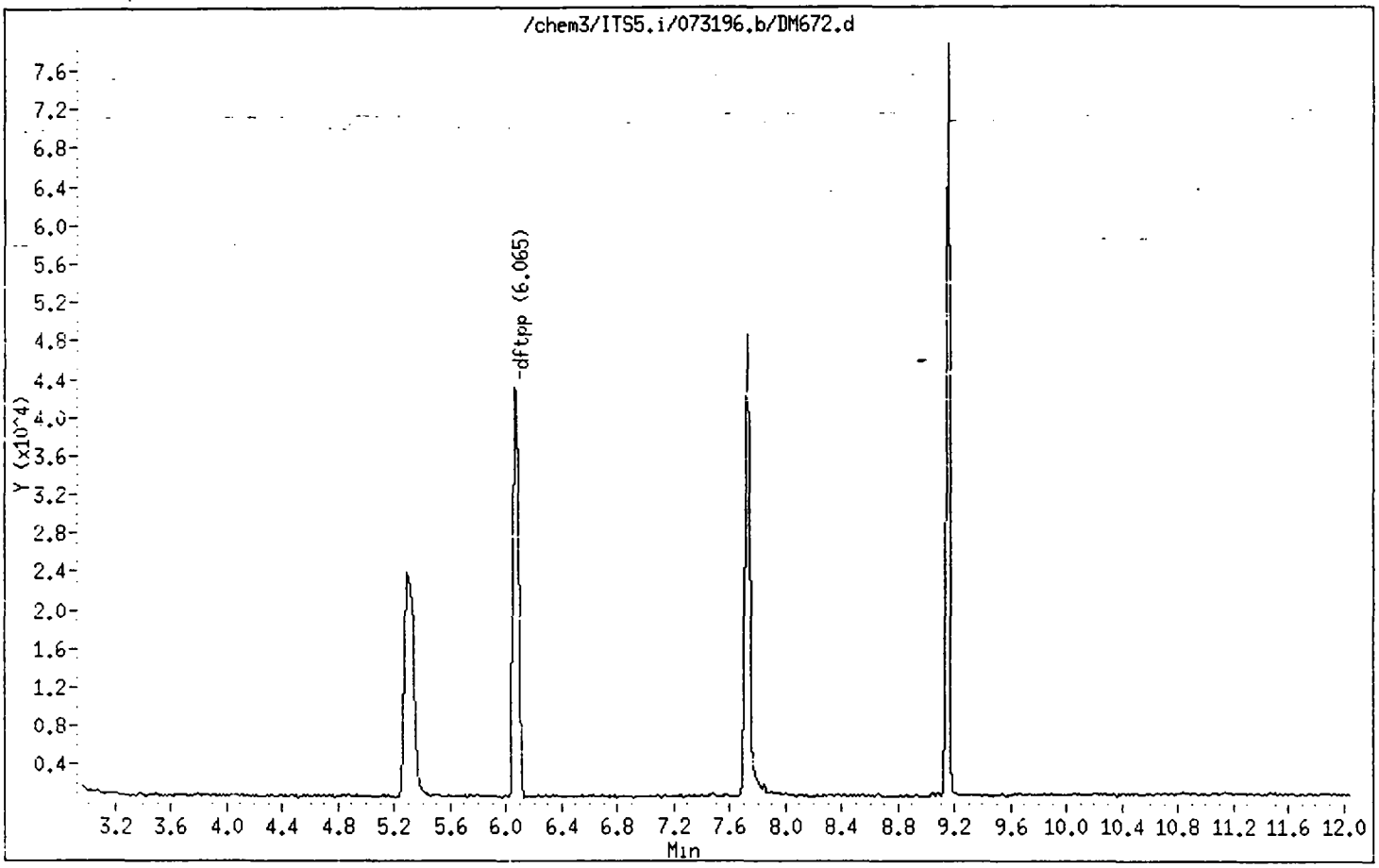
Instrument: ITS5.i

Sample Info: ITS5 DFTPP

Operator: Instrument ITS5

Column phase: DB-5

Column diameter: 0.25



Data File: /chem3/ITS5.i/073196.b/DM672.d

Date : 31-JUL-1996 08:48

Client ID: ITS5 DFTPP 04-01-96

Instrument: ITS5.i

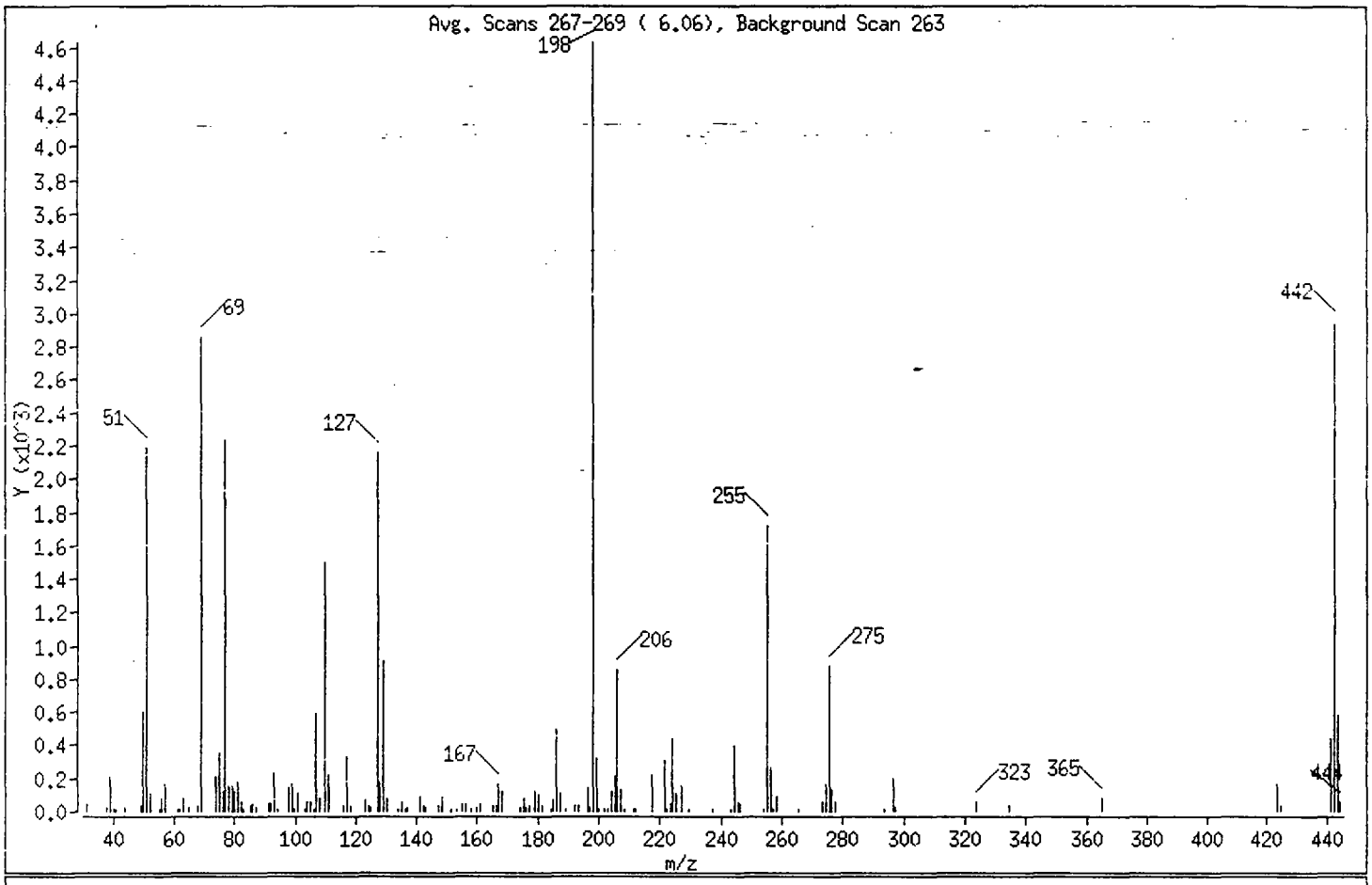
Sample Info: ITS5 DFTPP

Operator: Instrument ITS5

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.33
68	Less than 2.00% of mass 69	0.69 (1.12)
69	Mass 69 relative abundance	61.81
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	46.53
197	Less than 1.00% of mass 198	0.54
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 30.00% of mass 198	18.82
365	Greater than 1.00% of mass 198	1.75
441	Present, but less than mass 443	9.44
442	40.00 - 110.00% of mass 198	63.79
443	17.00 - 23.00% of mass 442	12.53 (19.64)

Data File: /chem3/ITS5.i/073196.b/DM672.d

Date : 31-JUL-1996 08:48

Client ID: ITS5 DFTPP 04-01-96

Instrument: ITS5.i

Sample Info: ITS5 DFTPP

Operator: Instrument ITS5

Column phase: DB-5

Column diameter: 0.25

Data File: DM672.d
Spectrum : Avg. Scans 267-269 (6.06), Background Scan 263
Largest m/z: 198.20
Number of peaks: 142

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	43	98.10	141	160.00	24	222.20	16
38.00	26	99.10	159	161.10	42	223.20	41
39.10	210	99.90	7	165.00	38	224.20	441
40.00	16	101.10	109	166.30	28	225.30	113
40.90	12	103.10	15	167.10	165	227.20	148
44.10	18	104.00	51	168.10	125	229.20	15
49.00	29	105.00	57	174.20	17	237.15	7
50.00	605	106.00	7	175.20	80	243.35	11
51.10	2191	107.10	589	176.20	26	244.35	390
52.10	108	108.20	73	177.10	29	245.35	50
55.10	10	110.10	1503	179.20	117	246.25	48
56.00	75	111.10	224	180.20	94	254.25	9
57.00	169	116.10	31	181.10	35	255.35	1713
61.00	10	117.10	333	184.30	6	256.35	268
62.00	13	118.00	32	185.20	65	257.15	8
63.10	79	123.10	63	186.20	489	258.35	92
65.10	18	124.10	33	187.20	110	265.35	14
68.10	32	125.10	27	189.10	12	273.35	54
69.00	2861	127.10	2154	192.20	30	274.35	168
74.10	213	128.10	174	193.20	34	275.35	871
75.00	348	129.10	905	196.20	140	276.35	127
76.10	118	130.10	77	196.90	25	277.35	53
77.10	2227	134.10	13	198.20	4629	293.35	9
78.10	154	135.20	51	199.20	318	296.35	194
79.10	152	136.00	9	200.10	12	297.35	22
80.00	125	137.10	18	201.70	15	323.45	53
81.00	178	141.10	87	203.20	8	334.45	32
82.10	54	142.00	35	204.20	123	365.35	81
83.10	14	143.10	24	205.20	203	423.55	163
85.00	35	147.10	36	206.20	857	424.45	29
86.00	47	148.10	89	207.20	132	441.55	437
87.10	17	151.30	8	208.10	12	442.55	2953
91.10	48	153.10	11	211.20	14	443.55	580
92.00	42	155.20	46	212.00	9	444.55	59
93.00	232	156.20	43	217.20	224		

Data File: /chem3/ITS5.i/073196.b/DM672.d
Date : 31-JUL-1996 08:48
Client ID: ITS5 DFTPP 04-01-96
Sample Info: ITS5 DFTPP

Instrument: ITS5.i

Operator: Instrument ITS5

Column phase: DB-5

Column diameter: 0.25

Data File: DM672.d
Spectrum : Avg. Scans 267-269 (6.06), Background Scan 263
Largest m/z: 198.20
Number of peaks: 142

m/z	Y	m/z	Y	m/z	Y	m/z	Y
94.20	10	158.20	6	221.30	305		

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10809-6 BLK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN421

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/03/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10.0	U
62-53-3	Aniline	50.0	U
108-95-2	Phenol	10.0	U
111-44-4	Bis(2-Chloroethyl)Ether	10.0	U
95-57-8	2-Chlorophenol	10.0	U
541-73-1	1,3-Dichlorobenzene	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
100-51-6	Benzyl alcohol	20.0	U
95-50-1	1,2-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
39638-32-9	Bis(2-Chloroisopropyl)ether	10.0	U
106-44-5	4-Methylphenol	10.0	U
621-64-7	N-Nitroso-di-n-propylamine	10.0	U
67-72-1	Hexachloroethane	10.0	U
98-95-3	Nitrobenzene	10.0	U
78-59-1	Isophorone	10.0	U
88-75-5	2-Nitrophenol	10.0	U
105-67-9	2,4-Dimethylphenol	10.0	U
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U
65-85-0	Benzoic acid	50.0	U
120-83-2	2,4-Dichlorophenol	10.0	U
120-82-1	1,2,4-Trichlorobenzene	10.0	U
106-47-8	4-Chloroaniline	20.0	U
87-68-3	Hexachlorobutadiene	10.0	U
59-50-7	4-Chloro-3-methylphenol	20.0	U
91-57-6	2-Methylnaphthalene	10.0	U
77-47-4	Hexachlorocyclopentadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	50.0	U
91-58-7	2-Chloronaphthalene	10.0	U
88-74-4	2-Nitroaniline	50.0	U
131-11-3	Dimethyl phthalate	10.0	U
208-96-8	Acenaphthylene	10.0	U

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10809-6 BLK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN421

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/03/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10.0	U
99-09-2	3-Nitroaniline	50.0	U
83-32-9	Acenaphthene	10.0	U
51-28-5	2,4-Dinitrophenol	50.0	U
132-64-9	Dibenzofuran	10.0	U
100-02-7	4-Nitrophenol	50.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
84-66-2	Diethyl phthalate	10.0	U
86-73-7	Fluorene	10.0	U
7005-72-3	4-Chlorophenylphenyl ether	10.0	U
100-01-6	4-Nitroaniline	50.0	U
534-52-1	4,6-Dinitro-2-methylphenol	50.0	U
86-30-6	N-Nitrosodiphenylamine (1)	10.0	U
103-33-3	1,2-Diphenylhydrazine	50.0	U
101-55-3	4-Bromophenylphenyl ether	10.0	U
87-86-5	Pentachlorophenol	50.0	U
92875	Benzidine	50.0	U
85-01-8	Phenanthrene	10.0	U
120-12-7	Anthracene	10.0	U
86-74-8	Carbazole	10.0	U
84-74-2	Di-n-butylphthalate	10.0	U
206-44-0	Fluoranthene	10.0	U
129-00-0	Pyrene	10.0	U
85-68-7	Butyl benzyl phthalate	10.0	U
56-55-3	Benzo(a)anthracene	10.0	U
91-94-1	3,3'-Dichlorobenzidine	20.0	U
218-01-9	Chrysene	10.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U
117-84-0	Di-n-octylphthalate	10.0	U
205-99-2	Benzo(b)fluoranthene	10.0	U
207-08-9	Benzo(k)fluoranthene	10.0	U
50-32-8	Benzo(a)pyrene	10.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U

(1) - Cannot be separated from Diphenylamine

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10809-6 BLK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN421

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/03/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
53-70-3	Dibenz(a,h)anthracene	10.0	U
191-24-2	Benzo(g,h,i)perylene	10.0	U
110-86-1	Pyridine	10.0	U
	m,p-Cresol	10.0	U
109-06-8	2-Picoline	50.0	U
10595-95-6	N-Nitrosomethylethylamine	10.0	U
66-27-3	Methyl methanesulfonate	50.0	U
55-18-5	N-Nitrosodiethylamine	10.0	U
62-50-0	Ethyl methanesulfonate	50.0	U
76-01-7	Pentachloroethane	10.0	U
98-86-2	Acetophenone	50.0	U
930-55-2	N-Nitrosopyrrolidine	10.0	U
59-89-2	N-Nitrosomorpholine	10.0	U
95-53-4	o-Toluidine	10.0	U
106-50-3	p-Phenylenediamine	10.0	U
100-75-4	N-Nitrosopiperidine	10.0	U
29088-49-1	a,a-Dimethylphenylethylamine	10.0	U
87-65-0	2,6-Dichlorophenol	10.0	U
1888-71-7	Hexachloropropene	10.0	U
924-16-3	N-Nitrosodibutylamine	10.0	U
120-58-1	Isosafrole	10.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U
94-59-7	Safrole	10.0	U
90-13-1	1-Chloronaphthalene	10.0	U
130-15-4	1,4-Naphthoquinone	10.0	U
99-65-0	m-Dinitrobenzene	10.0	U
608-93-5	Pentachlorobenzene	10.0	U
91-59-8	2-Naphthylamine	10.0	U
134-32-7	1-Naphthylamine	10.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U
99-55-8	5-Nitro-o-toluidine	10.0	U
99-35-4	1,3,5-Trinitrobenzene	10.0	U
2303-16-4	Diallate	10.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10809-6 BLK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN421

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/03/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-44-2	Phenacetin	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
92-67-1	4-Aminobiphenyl	50.0	U
82-68-8	Pentachloronitrobenzene	10.0	U
23950-58-5	Pronamide	10.0	U
88-85-7	Dinoseb	10.0	U
56-57-5	4-Nitroquinoline-1-oxide	10.0	U
91-80-5	Methapyrilene	10.0	U
465-73-6	Isodrin	10.0	U
140-57-8	Aromite	10.0	U
60-11-7	p-(Dimethylamino)azobenzene	10.0	U
510-15-6	Chlorobenzilate	10.0	U
----------	3,3'-Dimethylbenzidine	10.0	U
143-50-0	Kepone	10.0	U
53-96-3	2-Actylaminofluorene	10.0	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10.0	U
70-30-4	Hexachlorophene	50.0	U
56-49-5	3-Methylcholanthrene	10.0	U
224-42-9	Dibenz[a,j]acridine	50.0	U
86-30-6	N-Nitroso- & Diphenylamine	10.0	U
91-20-3	Naphthalene	10.0	U
126-68-1	Triethyl thiophosphate	10.0	U
60-51-5	Dimethoate	10.0	U
298-04-4	Disolfonton	10.0	U
298-00-0	Methyl parathion	10.0	U
56-38-2	Parathion	10.0	U
298-02-2	Phorate	10.0	U
3689-24-5	Sulfotep	10.0	U
297-97-2	Thionazin	10.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

10809-6 BLK

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN421

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/03/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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17.				
18.				
19.				
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22.				
23.				
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25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN421.d
Lab Smp Id: 3520 Blank 1000/1 Client Smp ID: 3520 Blank 1000/1
Inj Date : 03-OCT-1996 23:55
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/1 09-30-96 3520 Blank BTL# 7
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 6 2-Fluorophenol (SS)	112.00	4.203	4.182	(0.678)	34661	61.0	61.0
$ 10 Phenol-d6 (SS)	99.00	5.620	5.621	(0.906)	41828	73.5	73.5
* 16 1,4-Dichlorobenzene-d4	152.00	6.200	6.191	(1.000)	18055	40.0	
$ 29 Nitrobenzene-d5 (SS)	82.00	7.199	7.203	(0.842)	28898	40.7	40.7
* 42 Naphthalene-d8	136.00	8.546	8.552	(1.000)	59076	40.0	
$ 58 2-Fluorobiphenyl (SS)	172.00	10.751	10.760	(0.889)	55870	45.5	45.5
* 67 Acenaphthene-d10	164.00	12.098	12.097	(1.000)	32662	40.0	
$ 88 2,4,6-Tribromophenol (SS)	330.00	14.094	14.097	(1.165)	18462	73.5	73.5
* 101 Phenanthrene-d10	188.00	16.090	16.096	(1.000)	52455	40.0	
$ 116 Terphenyl-d14 (SS)	244.00	20.221	20.218	(0.900)	47954	44.5	44.5
* 126 Chrysene-d12	240.00	22.472	22.483	(1.000)	37107	40.0	
* 135 Perylene-d12	264.00	25.328	25.331	(1.000)	30991	40.0	

Inchcape Testing Services - Environmental Laboratories

Unknown Compounds Quantitation Report

Data file : /chem3/ITS5.i/100396.b/DN421.d
Lab Smp Id: 3520 Blank 1000/1 Client Smp ID: 3520 Blank 1000/1
Inj Date : 03-OCT-1996 23:55
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/1 09-30-96 3520 Blank BTL# 7
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.000 Target Version: 3.10
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ITS5.i
Lab File ID: DN421.d
Lab Smp Id: 3520 Blank 1000/1
Analysis Type: SV
Quant Type: ISTD
Operator: WSW
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 3520 Blank BTL# 7

Calibration Date: 10/03/96
Calibration Time: 2045
Client Smp ID: 3520 Blank 1000/1
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	27981	13990	55962	18055	-35.47
42 Naphthalene-d8	85693	42846	171386	59076	-31.06
67 Acenaphthene-d10	47296	23648	94592	32662	-30.94
101 Phenanthrene-d10	83215	41608	166430	52455	-36.96
126 Chrysene-d12	56462	28231	112924	37107	-34.28
135 Perylene-d12	51173	25586	102346	30991	-39.44

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	6.19	5.69	6.69	6.20	0.15
42 Naphthalene-d8	8.55	8.05	9.05	8.55	-0.07
67 Acenaphthene-d10	12.10	11.60	12.60	12.10	0.01
101 Phenanthrene-d10	16.10	15.60	16.60	16.09	-0.04
126 Chrysene-d12	22.48	21.98	22.98	22.47	-0.05
135 Perylene-d12	25.33	24.83	25.83	25.33	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 3520 Blank 1000/1
Level: LOW
Data Type: MS DATA
SpikeList File: 8270_100.spk
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 3520 Blank BTL# 7

Client SDG: 100396
Fraction: SV
Client Smp ID: 3520 Blank 1000/1
Operator: WSW
SampleType: BLANK
Quant Type: ISTD

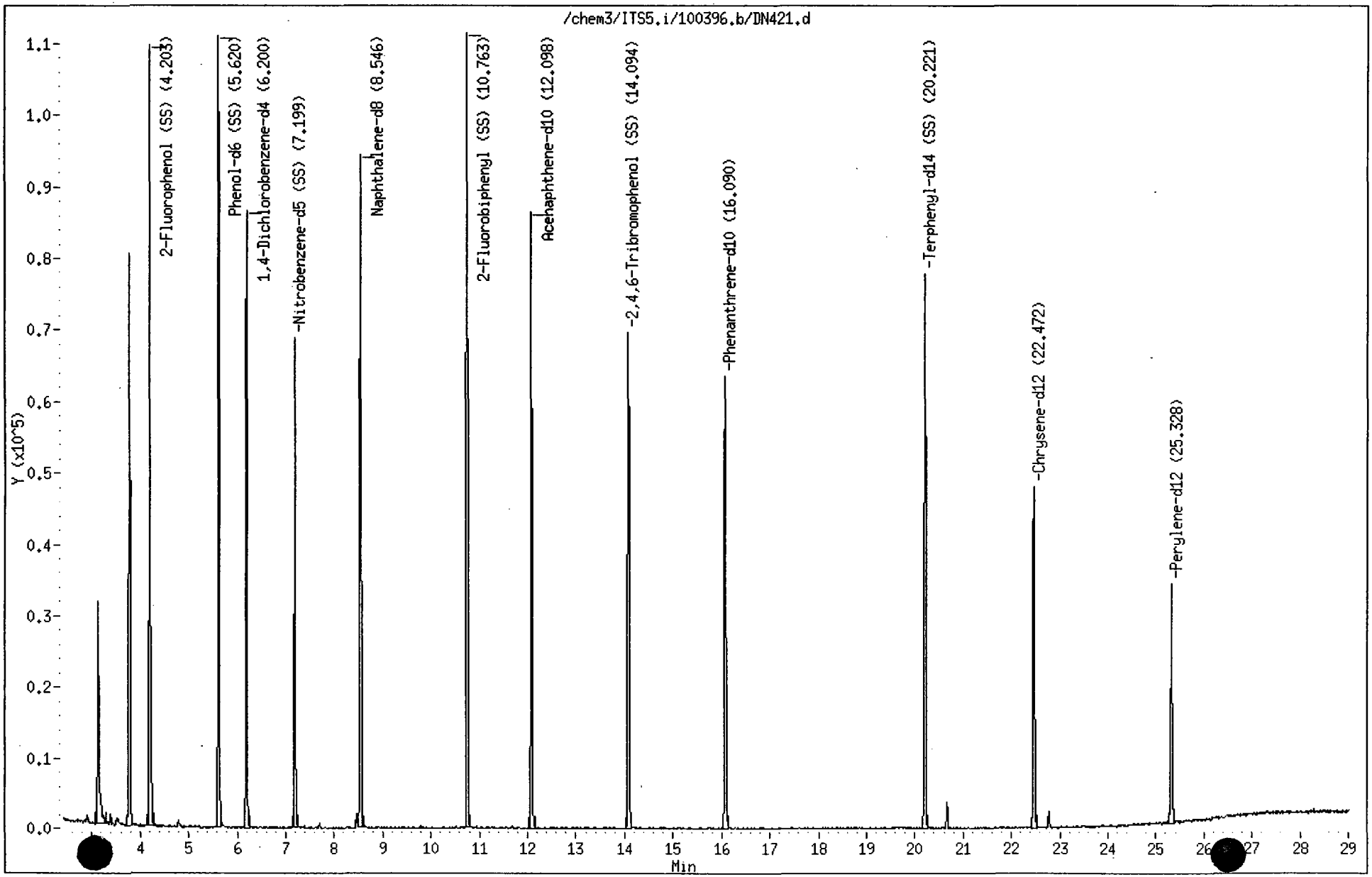
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Fluorophenol (SS	100	61.0	61.01	30-120
$ 10 Phenol-d6 (SS)	100	73.5	73.53	30-110
$ 29 Nitrobenzene-d5 (S	50.0	40.7	81.33	35-114
$ 58 2-Fluorobiphenyl (	50.0	45.5	90.93	43-116
$ 88 2,4,6-Tribromophen	100	73.5	73.48	25-135
$ 116 Terphenyl-d14 (SS)	50.0	44.5	89.06	33-141

412

Data File: /chem3/ITS5.i/100396.b/DN421.d
Date : 03-OCT-1996 23:55
Client ID: 3520 Blank 1000/1
Sample Info: IL_8270_L;;AB879-90;1
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10809-6 BLKBS

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6 BS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN422

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	88.9	
62-53-3	Aniline	8.85	J
108-95-2	Phenol	60.3	
111-44-4	Bis(2-Chloroethyl)Ether	82.1	
95-57-8	2-Chlorophenol	74.5	
541-73-1	1,3-Dichlorobenzene	72.8	
106-46-7	1,4-Dichlorobenzene	70.5	
100-51-6	Benzyl alcohol	13.3	J
95-50-1	1,2-Dichlorobenzene	77.8	
95-48-7	2-Methylphenol	58.9	
39638-32-9	Bis(2-Chloroisopropyl)ether	83.4	
106-44-5	4-Methylphenol	72.7	
621-64-7	N-Nitroso-di-n-propylamine	85.5	
67-72-1	Hexachloroethane	77.9	
98-95-3	Nitrobenzene	86.6	
78-59-1	Isophorone	87.9	
88-75-5	2-Nitrophenol	78.6	
105-67-9	2,4-Dimethylphenol	60.2	
111-91-1	Bis(2-Chloroethoxy)methane	26.8	
65-85-0	Benzoic acid	68.7	
120-83-2	2,4-Dichlorophenol	76.4	
120-82-1	1,2,4-Trichlorobenzene	78.8	
106-47-8	4-Chloroaniline	27.0	
87-68-3	Hexachlorobutadiene	80.5	
59-50-7	4-Chloro-3-methylphenol	79.5	
91-57-6	2-Methylnaphthalene	83.6	
77-47-4	Hexachlorocyclopentadiene	34.9	
88-06-2	2,4,6-Trichlorophenol	79.0	
95-95-4	2,4,5-Trichlorophenol	80.6	
91-58-7	2-Chloronaphthalene	79.9	
88-74-4	2-Nitroaniline	80.8	
131-11-3	Dimethyl phthalate	82.4	
208-96-8	Acenaphthylene	46.5	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10809-6 BLKBS

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6 BS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN422

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	82.0	
99-09-2	3-Nitroaniline	53.7	
83-32-9	Acenaphthene	66.6	
51-28-5	2,4-Dinitrophenol	81.0	
132-64-9	Dibenzofuran	82.1	
100-02-7	4-Nitrophenol	84.1	
121-14-2	2,4-Dinitrotoluene	84.1	
84-66-2	Diethyl phthalate	83.2	
86-73-7	Fluorene	78.5	
7005-72-3	4-Chlorophenylphenyl ether	80.7	
100-01-6	4-Nitroaniline	70.8	
534-52-1	4,6-Dinitro-2-methylphenol	87.0	
86-30-6	N-Nitrosodiphenylamine (1)	53.3	
103-33-3	1,2-Diphenylhydrazine	49.3	J
101-55-3	4-Bromophenylphenyl ether	84.5	
87-86-5	Pentachlorophenol	90.7	
92875	Benzidine	50.0	U
85-01-8	Phenanthrene	81.7	
120-12-7	Anthracene	60.9	
86-74-8	Carbazole	25.0	
84-74-2	Di-n-butylphthalate	86.4	
206-44-0	Fluoranthene	86.8	
129-00-0	Pyrene	60.5	
85-68-7	Butyl benzyl phthalate	73.6	
56-55-3	Benzo(a)anthracene	83.0	
91-94-1	3,3'-Dichlorobenzidine	10.1	J
218-01-9	Chrysene	78.8	
117-81-7	Bis(2-ethylhexyl)phthalate	82.6	
117-84-0	Di-n-octylphthalate	90.4	
205-99-2	Benzo(b)fluoranthene	88.7	
207-08-9	Benzo(k)fluoranthene	78.0	
50-32-8	Benzo(a)pyrene	68.8	
193-39-5	Indeno(1,2,3-cd)pyrene	73.2	

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10809-6 BLKBS

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6 BS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN422

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
53-70-3	Dibenz(a,h)anthracene	81.1	
191-24-2	Benzo(g,h,i)perylene	69.4	
110-86-1	Pyridine	7.11	J
	m,p-Cresol	10.0	U
109-06-8	2-Picoline	50.0	U
10595-95-6	N-Nitrosomethylethylamine	10.0	U
66-27-3	Methyl methanesulfonate	50.0	U
55-18-5	N-Nitrosodiethylamine	10.0	U
62-50-0	Ethyl methanesulfonate	50.0	U
76-01-7	Pentachloroethane	10.0	U
98-86-2	Acetophenone	50.0	U
930-55-2	N-Nitrosopyrrolidine	10.0	U
59-89-2	N-Nitrosomorpholine	10.0	U
95-53-4	o-Toluidine	10.0	U
106-50-3	p-Phenylenediamine	10.0	U
100-75-4	N-Nitrosopiperidine	10.0	U
29088-49-1	a,a-Dimethylphenylethylamine	10.0	U
87-65-0	2,6-Dichlorophenol	10.0	U
1888-71-7	Hexachloropropene	10.0	U
924-16-3	N-Nitrosodibutylamine	10.0	U
120-58-1	Isosafrole	10.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U
94-59-7	Safrole	10.0	U
90-13-1	1-Chloronaphthalene	10.0	U
130-15-4	1,4-Naphthoquinone	10.0	U
99-65-0	m-Dinitrobenzene	10.0	U
608-93-5	Pentachlorobenzene	10.0	U
91-59-8	2-Naphthylamine	10.0	U
134-32-7	1-Naphthylamine	10.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U
99-55-8	5-Nitro-o-toluidine	10.0	U
99-35-4	1,3,5-Trinitrobenzene	10.0	U
2303-16-4	Diallate	10.0	U

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10809-6 BLKBS

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6 BS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN422

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-44-2	Phenacetin	10.0	U
118-74-1	Hexachlorobenzene	83.6	E
92-67-1	4-Aminobiphenyl	50.0	U
82-68-8	Pentachloronitrobenzene	10.0	U
23950-58-5	Pronamide	10.0	U
88-85-7	Dinoseb	10.0	U
56-57-5	4-Nitroquinoline-1-oxide	10.0	U
91-80-5	Methapyrilene	10.0	U
465-73-6	Isodrin	10.0	U
140-57-8	Aromite	10.0	U
60-11-7	p-(Dimethylamino)azobenzene	10.0	U
510-15-6	Chlorobenzilate	10.0	U
	3,3'-Dimethylbenzidine	10.0	U
143-50-0	Kepone	10.0	U
53-96-3	2-Actylaminofluorene	10.0	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10.0	U
70-30-4	Hexachlorophene	50.0	U
56-49-5	3-Methylcholanthrene	10.0	U
224-42-9	Dibenz[a,j]acridine	50.0	U
86-30-6	N-Nitroso- & Diphenylamine	10.0	U
91-20-3	Naphthalene	80.7	E
126-68-1	Triethyl thiophosphate	10.0	U
60-51-5	Dimethoate	10.0	U
298-04-4	Disolfonton	10.0	U
298-00-0	Methyl parathion	10.0	U
56-38-2	Parathion	10.0	U
298-02-2	Phorate	10.0	U
3689-24-5	Sulfotep	10.0	U
297-97-2	Thionazin	10.0	U

Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN422.d
Lab Smp Id: 3520 BS 1000/1 Client Smp ID: 3520 BS 1000/1
Inj Date : 04-OCT-1996 00:31
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/1 09-30-96 3520 BS BTL# 8
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1 QC Sample: BS
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	1 N-Nitrosodimethylamine	74.00	2.660	2.649	(0.430)	21073	88.9	88.9(QM)
	2 Pyridine	79.00	2.683	2.674	(0.433)	3073	7.11	7.11(aM)
$	6 2-Fluorophenol (SS)	112.00	4.194	4.182	(0.677)	34222	67.6	67.6
$	10 Phenol-d6 (SS)	99.00	5.633	5.621	(0.910)	26537	52.3	52.3
	11 Phenol	94.00	5.656	5.644	(0.914)	30180	60.3	60.3(QM)
	12 Aniline	93.00	5.656	5.656	(0.914)	4935	8.85	8.85(aQM)
	13 Bis(2-Chloroethyl)Ether	93.00	5.784	5.784	(0.934)	34624	82.1	82.1
	14 2-Chlorophenol	128.00	5.854	5.842	(0.946)	38872	74.5	74.5
	15 1,3-Dichlorobenzene	146.00	6.098	6.086	(0.985)	45635	72.8	72.8
*	16 1,4-Dichlorobenzene-d4	152.00	6.191	6.191	(1.000)	16096	40.0	
	17 1,4-Dichlorobenzene	146.00	6.226	6.226	(1.006)	46420	70.5	70.5
	18 Benzyl alcohol	108.00	6.470	6.470	(1.045)	2986	13.3	13.3(a)
	19 1,2-Dichlorobenzene	146.00	6.482	6.482	(1.047)	44693	77.8	77.8
	20 2-Methylphenol	108.00	6.691	6.679	(1.081)	20684	58.9	58.9
	21 Bis(2-Chloroisopropyl)ether	45.00	6.726	6.726	(1.086)	41311	83.4	83.4(M)
	26 N-Nitroso-di-n-propylamine	70.00	6.970	6.970	(1.126)	29393	85.5	85.5
	27 4-Methylphenol	108.00	6.982	6.982	(1.128)	25376	72.7	72.7
	28 Hexachloroethane	117.00	7.087	7.087	(1.145)	24438	77.9	77.9
$	29 Nitrobenzene-d5 (SS)	82.00	7.203	7.203	(0.842)	28257	46.9	46.9
	31 Nitrobenzene	77.00	7.250	7.238	(0.848)	47492	86.6	86.6
	33 Isophorone	82.00	7.715	7.702	(0.902)	79406	87.9	87.9
	34 2-Nitrophenol	139.00	7.831	7.830	(0.916)	22228	78.6	78.6
	35 2,4-Dimethylphenol	107.00	7.982	7.970	(0.933)	32877	60.2	60.2
	36 Bis(2-Chloroethoxy)methane	93.00	8.156	8.156	(0.954)	13958	26.8	26.8
	39 2,4-Dichlorophenol	162.00	8.320	8.319	(0.973)	35205	76.4	76.4
	40 Benzoic acid	122.00	8.308	8.284	(0.971)	17054	68.7	68.7
	41 1,2,4-Trichlorobenzene	180.00	8.448	8.447	(0.988)	41631	78.8	78.8
*	42 Naphthalene-d8	136.00	8.552	8.552	(1.000)	50037	40.0	
	43 Naphthalene	128.00	8.599	8.598	(1.005)	101307	80.7	80.7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
45 4-Chloroaniline	127.00	8.739	8.732	(1.022)	15143	27.0	27.0
47 Hexachlorbbutadiene	225.00	8.855	8.854	(1.035)	34067	80.5	80.5
50 4-Chloro-3-methylphenol	107.00	9.760	9.760	(1.141)	40064	79.5	79.5
53 2-Methylnaphthalene	142.00	9.982	9.981	(1.167)	67001	83.6	83.6
55 Hexachlorocyclopentadiene	237.00	10.307	10.306	(0.852)	14126	34.9	34.9
56 2,4,6-Trichlorophenol	196.00	10.574	10.574	(0.874)	27015	79.0	79.0
57 2,4,5-Trichlorophenol	196.00	10.656	10.655	(0.881)	29566	80.6	80.6
$ 58 2-Fluorobiphenyl (SS)	172.00	10.761	10.760	(0.889)	49520	48.1	48.1
59 2-Chloronaphthalene	162.00	10.970	10.970	(0.907)	69748	79.9	79.9
62 2-Nitroaniline	65.00	11.214	11.216	(0.927)	26206	80.8	80.8
64 Dimethyl phthalate	163.00	11.644	11.643	(0.962)	91106	82.4	82.4
65 Acenaphthylene	152.00	11.795	11.795	(0.975)	57367	46.5	46.5
66 2,6-Dinitrotoluene	165.00	11.748	11.736	(0.971)	20676	82.0	82.0
* 67 Acenaphthene-d10	164.00	12.097	12.097	(1.000)	27382	40.0	
68 Acenaphthene	153.00	12.167	12.167	(1.006)	54152	66.6	66.6
69 3-Nitroaniline	138.00	12.062	12.063	(0.997)	12663	53.7	53.7
70 2,4-Dinitrophenol	184.00	12.295	12.295	(1.016)	10132	81.0	81.0
71 Dibenzofuran	168.00	12.563	12.551	(1.038)	90990	82.1	82.1
72 4-Nitrophenol	109.00	12.528	12.527	(1.036)	18784	84.1	84.1(QM)
74 2,4-Dinitrotoluene	165.00	12.587	12.586	(1.040)	27958	84.1	84.1(QM)
78 Diethyl phthalate	149.00	13.260	13.248	(1.096)	93589	83.2	83.2
79 Fluorene	166.00	13.411	13.410	(1.109)	70914	78.5	78.5
80 4-Chlorophenylphenyl ether	204.00	13.470	13.469	(1.113)	38839	80.7	80.7
83 4-Nitroaniline	138.00	13.551	13.526	(1.120)	15345	70.8	70.8(M)
84 4,6-Dinitro-2-methylphenol	198.00	13.621	13.620	(0.846)	15916	87.0	87.0
85 N-Nitrosodiphenylamine	169.00	13.831	13.830	(0.859)	29479	53.3	53.3
87 1,2-Diphenylhydrazine	77.00	13.924	13.933	(0.865)	53409	49.3	49.3(a)
$ 88 2,4,6-Tribromophenol (SS)	330.00	14.098	14.097	(1.165)	19685	93.4	93.4
93 4-Bromophenylphenyl ether	248.00	14.911	14.899	(0.926)	23170	84.5	84.5
95 Hexachlorobenzene	284.00	14.993	14.992	(1.239)	34034	83.6	83.6
98 Pentachlorophenol	266.00	15.597	15.596	(0.969)	13601	90.7	90.7
* 101 Phenanthrene-d10	188.00	16.097	16.096	(1.000)	47760	40.0	
102 Phenanthrene	178.00	16.167	16.166	(1.004)	99381	81.7	81.7
103 Anthracene	178.00	16.307	16.305	(1.013)	73181	60.9	60.9
106 Carbazole	167.00	16.794	16.811	(1.043)	30835	25.0	25.0
108 Di-n-butylphthalate	149.00	17.909	17.907	(1.113)	141540	86.4	86.4
113 Fluoranthene	202.00	19.221	19.220	(1.194)	111036	86.8	86.8
115 Pyrene	202.00	19.743	19.742	(0.878)	97159	60.5	60.5
$ 116 Terphenyl-d14 (SS)	244.00	20.219	20.218	(0.899)	49897	44.6	44.6
122 Butyl benzyl phthalate	149.00	21.416	21.402	(0.952)	57024	73.6	73.6
124 Benzo(a)anthracene	228.00	22.460	22.459	(0.999)	95540	83.0	83.0
125 3,3'-Dichlorobenzidine	252.00	22.460	22.465	(0.999)	4635	10.1	10.1(a)
* 126 Chrysene-d12	240.00	22.484	22.483	(1.000)	38513	40.0	
127 Chrysene	228.00	22.542	22.541	(1.003)	96895	78.8	78.8
128 Bis(2-ethylhexyl)phthalate	149.00	22.694	22.693	(1.009)	82751	82.6	82.6
129 Di-n-octylphthalate	149.00	23.994	23.993	(0.947)	134459	90.4	90.4
130 Benzo(b)fluoranthene	252.00	24.622	24.609	(0.972)	96347	88.7	88.7
132 Benzo(k)fluoranthene	252.00	24.668	24.668	(0.974)	93088	78.0	78.0
134 Benzo(a)pyrene	252.00	25.227	25.226	(0.996)	64253	68.8	68.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 135 Perylene-d12	264.00	25.332	25.331	(1.000)	34966	40.0	
138 Indeno(1,2,3-cd)pyrene	276.00	27.345	27.341	(1.079)	75682	73.2	73.2
139 Dibenz(a,h)anthracene	278.00	27.392	27.376	(1.081)	69600	81.1	81.1
140 Benzo(g,h,i)perylene	276.00	27.884	27.876	(1.101)	59718	69.4	69.4

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ITS5.i
Lab File ID: DN422.d
Lab Smp Id: 3520 BS 1000/1
Analysis Type: SV
Quant Type: ISTD
Operator: WSW
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 3520 BS BTL# 8

Calibration Date: 10/03/96
Calibration Time: 2045
Client Smp ID: 3520 BS 1000/1
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	27981	13990	55962	16096	-42.48
42 Naphthalene-d8	85693	42846	171386	50037	-41.61
67 Acenaphthene-d10	47296	23648	94592	27382	-42.11
101 Phenanthrene-d10	83215	41608	166430	47760	-42.61
126 Chrysene-d12	56462	28231	112924	38513	-31.79
135 Perylene-d12	51173	25586	102346	34966	-31.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	6.19	5.69	6.69	6.19	0.00
42 Naphthalene-d8	8.55	8.05	9.05	8.55	0.01
67 Acenaphthene-d10	12.10	11.60	12.60	12.10	0.01
101 Phenanthrene-d10	16.10	15.60	16.60	16.10	0.01
126 Chrysene-d12	22.48	21.98	22.98	22.48	0.01
135 Perylene-d12	25.33	24.83	25.83	25.33	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 3520 BS 1000/1
Level: LOW
Data Type: MS DATA
SpikeList File: 8270_100.spk
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 3520 BS BTL# 8

Client SDG: 100396
Fraction: SV
Client Smp ID: 3520 BS 1000/1
Operator: WSW
SampleType: BS
Quant Type: ISTD

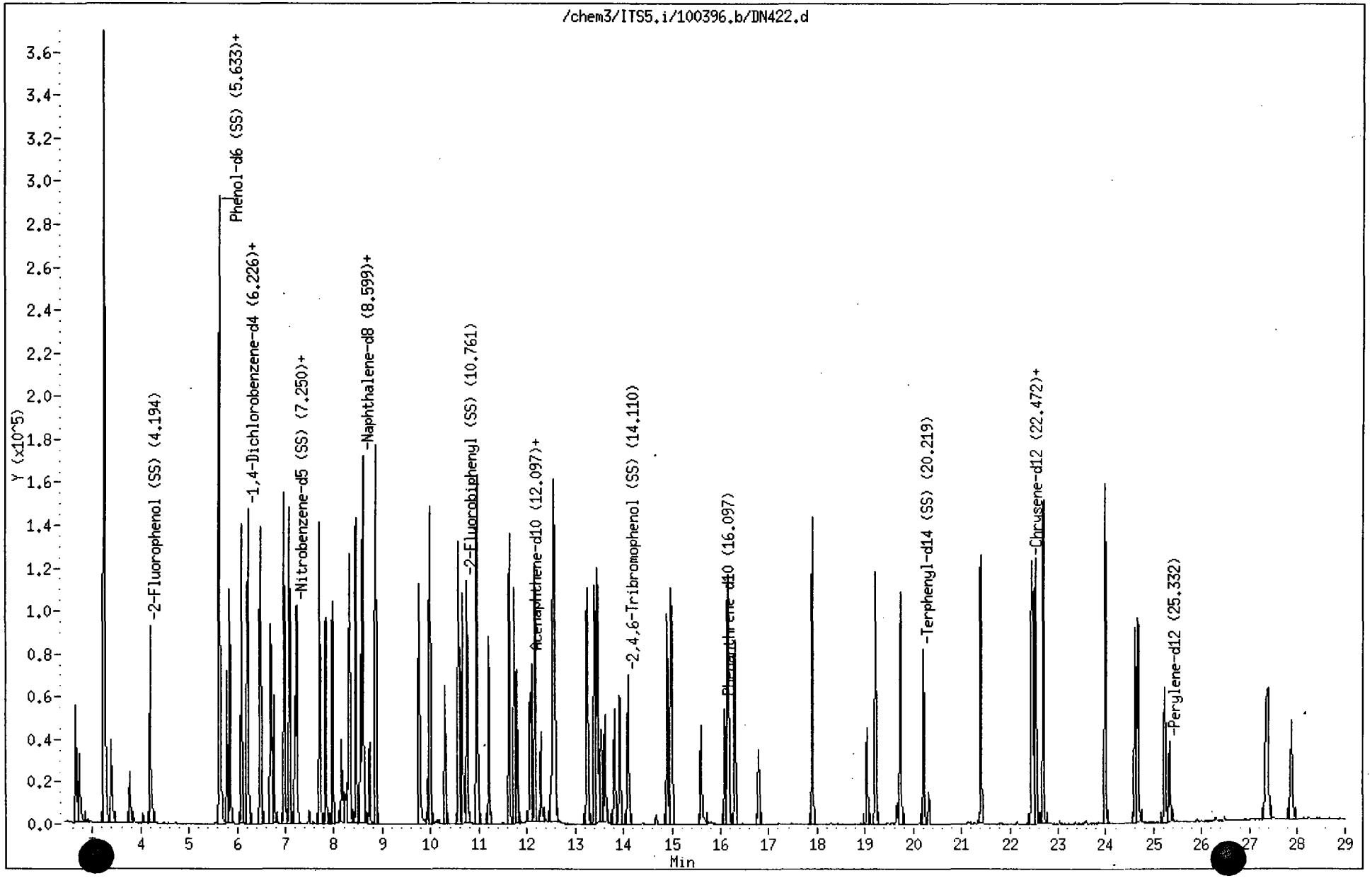
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
11 Phenol	100	60.3	60.33	5-112
14 2-Chlorophenol	100	74.5	74.50	23-134
17 1,4-Dichlorobenzen	100	70.5	70.50	20-124
41 1,2,4-Trichloroben	100	78.8	78.80	44-142
50 4-Chloro-3-methylp	100	79.5	79.49	22-147
68 Acenaphthene	100	66.6	66.64	47-145
72 4-Nitrophenol	100	84.1	84.08	10-132
74 2,4-Dinitrotoluene	100	84.1	84.07	39-139
98 Pentachlorophenol	100	90.7	90.66	14-176
115 Pyrene	100	60.5	60.52	52-115
26 N-Nitroso-di-n-pro	100	85.5	85.53	10-230

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Fluorophenol (SS	100	67.6	67.57	30-120
$ 10 Phenol-d6 (SS)	100	52.3	52.33	30-110
$ 29 Nitrobenzene-d5 (S	50.0	46.9	93.89	35-114
$ 58 2-Fluorobiphenyl (	50.0	48.1	96.14	43-116
$ 88 2,4,6-Tribromophen	100	93.4	93.45	25-135
$ 116 Terphenyl-d14 (SS)	50.0	44.6	89.29	33-141

Data File: /chem3/ITS5.i/100396.b/DN422.d
Date : 04-OCT-1996 00:31
Client ID: 3520 BS 1000/1
Sample Info: IL_8270_L;;AB879-90;1
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10809-6 BLKBSD

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6 BSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN423

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	93.2	
62-53-3	Aniline	82.8	
108-95-2	Phenol	86.1	
111-44-4	Bis(2-Chloroethyl)Ether	92.4	
95-57-8	2-Chlorophenol	81.7	
541-73-1	1,3-Dichlorobenzene	82.6	
106-46-7	1,4-Dichlorobenzene	79.8	
100-51-6	Benzyl alcohol	103	
95-50-1	1,2-Dichlorobenzene	84.4	
95-48-7	2-Methylphenol	89.3	
39638-32-9	Bis(2-Chloroisopropyl)ether	94.6	
106-44-5	4-Methylphenol	91.1	
621-64-7	N-Nitroso-di-n-propylamine	93.9	
67-72-1	Hexachloroethane	88.0	
98-95-3	Nitrobenzene	93.4	
78-59-1	Isophorone	102	
88-75-5	2-Nitrophenol	86.6	
105-67-9	2,4-Dimethylphenol	72.3	
111-91-1	Bis(2-Chloroethoxy)methane	91.1	
65-85-0	Benzoic acid	35.6	J
120-83-2	2,4-Dichlorophenol	84.9	
120-82-1	1,2,4-Trichlorobenzene	87.1	
106-47-8	4-Chloroaniline	58.7	
87-68-3	Hexachlorobutadiene	87.7	
59-50-7	4-Chloro-3-methylphenol	92.9	
91-57-6	2-Methylnaphthalene	94.3	
77-47-4	Hexachlorocyclopentadiene	40.1	
88-06-2	2,4,6-Trichlorophenol	88.5	
95-95-4	2,4,5-Trichlorophenol	91.0	
91-58-7	2-Chloronaphthalene	88.9	
88-74-4	2-Nitroaniline	97.7	
131-11-3	Dimethyl phthalate	94.5	
208-96-8	Acenaphthylene	95.8	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10809-6 BLKBSD

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6 BSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN423

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	94.0	
99-09-2	3-Nitroaniline	78.6	
83-32-9	Acenaphthene	91.5	
51-28-5	2,4-Dinitrophenol	66.4	
132-64-9	Dibenzofuran	92.5	
100-02-7	4-Nitrophenol	96.4	
121-14-2	2,4-Dinitrotoluene	94.5	
84-66-2	Diethyl phthalate	95.7	
86-73-7	Fluorene	91.8	
7005-72-3	4-Chlorophenylphenyl ether	92.4	
100-01-6	4-Nitroaniline	94.1	
534-52-1	4,6-Dinitro-2-methylphenol	79.7	
86-30-6	N-Nitrosodiphenylamine (1)	94.1	
103-33-3	1,2-Diphenylhydrazine	85.9	
101-55-3	4-Bromophenylphenyl ether	93.8	
87-86-5	Pentachlorophenol	90.1	
92875	Benzidine	34.6	J
85-01-8	Phenanthrene	89.4	
120-12-7	Anthracene	88.7	
86-74-8	Carbazole	77.6	
84-74-2	Di-n-butylphthalate	86.4	
206-44-0	Fluoranthene	85.9	
129-00-0	Pyrene	85.6	
85-68-7	Butyl benzyl phthalate	88.9	
56-55-3	Benzo(a)anthracene	90.0	
91-94-1	3,3'-Dichlorobenzidine	37.6	
218-01-9	Chrysene	87.8	
117-81-7	Bis(2-ethylhexyl)phthalate	87.6	
117-84-0	Di-n-octylphthalate	96.9	
205-99-2	Benzo(b)fluoranthene	97.4	
207-08-9	Benzo(k)fluoranthene	87.4	
50-32-8	Benzo(a)pyrene	93.2	
193-39-5	Indeno(1,2,3-cd)pyrene	80.0	

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10809-6 BLKBSD

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6 BSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN423

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
53-70-3	Dibenz(a,h)anthracene	80.6	
191-24-2	Benzo(g,h,i)perylene	76.9	
110-86-1	Pyridine	94.5	E
	m,p-Cresol	10.0	U
109-06-8	2-Picoline	50.0	U
10595-95-6	N-Nitrosomethylethylamine	10.0	U
66-27-3	Methyl methanesulfonate	50.0	U
55-18-5	N-Nitrosodiethylamine	2.80	J
62-50-0	Ethyl methanesulfonate	50.0	U
76-01-7	Pentachloroethane	10.0	U
98-86-2	Acetophenone	50.0	U
930-55-2	N-Nitrosopyrrolidine	10.0	U
59-89-2	N-Nitrosomorpholine	10.0	U
95-53-4	o-Toluidine	10.0	U
106-50-3	p-Phenylenediamine	10.0	U
100-75-4	N-Nitrosopiperidine	10.0	U
29088-49-1	a,a-Dimethylphenylethylamine	10.0	U
87-65-0	2,6-Dichlorophenol	10.0	U
1888-71-7	Hexachloropropene	10.0	U
924-16-3	N-Nitrosodibutylamine	10.0	U
120-58-1	Isosafrole	10.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U
94-59-7	Safrole	10.0	U
90-13-1	1-Chloronaphthalene	10.0	U
130-15-4	1,4-Naphthoquinone	10.0	U
99-65-0	m-Dinitrobenzene	10.0	U
608-93-5	Pentachlorobenzene	10.0	U
91-59-8	2-Naphthylamine	10.0	U
134-32-7	1-Naphthylamine	10.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U
99-55-8	5-Nitro-o-toluidine	10.0	U
99-35-4	1,3,5-Trinitrobenzene	10.0	U
2303-16-4	Diallate	10.0	U

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

10809-6 BLKBSD

Lab Name: ITS-DALLAS Contract:

Lab Code: Case No.: SAS No.: 8270B SDG No.: SV10809

Matrix: (soil/water) WATER Lab Sample ID: D96-10809-6 BSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DN423

Level: (low/med) LOW Date Received: 09/30/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/30/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-44-2	Phenacetin	10.0	U
118-74-1	Hexachlorobenzene	93.2	E
92-67-1	4-Aminobiphenyl	50.0	U
82-68-8	Pentachloronitrobenzene	10.0	U
23950-58-5	Pronamide	10.0	U
88-85-7	Dinoseb	10.0	U
56-57-5	4-Nitroquinoline-1-oxide	10.0	U
91-80-5	Methapyrilene	10.0	U
465-73-6	Isodrin	10.0	U
140-57-8	Aromite	10.0	U
60-11-7	p-(Dimethylamino)azobenzene	10.0	U
510-15-6	Chlorobenzilate	10.0	U
	3,3'-Dimethylbenzidine	10.0	U
143-50-0	Kepone	10.0	U
53-96-3	2-Actylaminofluorene	10.0	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10.0	U
70-30-4	Hexachlorophene	50.0	U
56-49-5	3-Methylcholanthrene	10.0	U
224-42-9	Dibenz[a,j]acridine	50.0	U
86-30-6	N-Nitroso- & Diphenylamine	42.1	E
91-20-3	Naphthalene	88.0	E
126-68-1	Triethyl thiophosphate	10.0	U
60-51-5	Dimethoate	10.0	U
298-04-4	Disolfonton	10.0	U
298-00-0	Methyl parathion	10.0	U
56-38-2	Parathion	10.0	U
298-02-2	Phorate	10.0	U
3689-24-5	Sulfotep	10.0	U
297-97-2	Thionazin	10.0	U

Inchcape Testing Services - Environmental Laboratories

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem3/ITS5.i/100396.b/DN423.d
Lab Smp Id: 3520 BSD 1000/1 Client Smp ID: 3520 BSD 1000/1
Inj Date : 04-OCT-1996 01:08
Operator : WSW Inst ID: ITS5.i
Smp Info : IL_8270_L;;AB879-90;1
Misc Info : 1000/1 09-30-96 3520 BSD BTL# 9
Comment :
Method : /chem3/ITS5.i/100396.b/abn5.m
Meth Date : 05-Oct-1996 09:01 wsw Quant Type: ISTD
Cal Date : 03-OCT-1996 20:45 Cal File: DN416.d
Als bottle: 1 QC Sample: BSD
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	1 N-Nitrosodimethylamine	74.00	2.658	2.649	(0.429)	22752	93.2	93.2
	2 Pyridine	79.00	2.670	2.674	(0.430)	42020	94.5	94.5
$	6 2-Fluorophenol (SS)	112.00	4.203	4.182	(0.678)	35393	67.9	67.9
	7 N-Nitrosodiethylamine	102.00	3.774	4.519	(0.609)	589	2.80	2.80(aQ)
$	10 Phenol-d6 (SS)	99.00	5.631	5.621	(0.908)	41458	79.4	79.4
	11 Phenol	94.00	5.666	5.644	(0.914)	44341	86.1	86.1(QM)
	12 Aniline	93.00	5.666	5.656	(0.914)	47547	82.8	82.8(QM)
	13 Bis(2-Chloroethyl)Ether	93.00	5.794	5.784	(0.934)	40076	92.4	92.4
	14 2-Chlorophenol	128.00	5.853	5.842	(0.944)	43879	81.7	81.7
	15 1,3-Dichlorobenzene	146.00	6.097	6.086	(0.983)	53268	82.6	82.6
*	16 1,4-Dichlorobenzene-d4	152.00	6.201	6.191	(1.000)	16572	40.0	
	17 1,4-Dichlorobenzene	146.00	6.236	6.226	(1.006)	54089	79.8	79.8
	18 Benzyl alcohol	108.00	6.480	6.470	(1.045)	23672	103	103
	19 1,2-Dichlorobenzene	146.00	6.492	6.482	(1.047)	49872	84.4	84.4
	20 2-Methylphenol	108.00	6.689	6.679	(1.079)	32257	89.3	89.3
	21 Bis(2-Chloroisopropyl)ether	45.00	6.771	6.726	(1.092)	48197	94.6	94.6(M)
	26 N-Nitroso-di-n-propylamine	70.00	6.980	6.970	(1.126)	33211	93.9	93.9
	27 4-Methylphenol	108.00	6.992	6.982	(1.127)	32732	91.1	91.1
	28 Hexachloroethane	117.00	7.085	7.087	(1.142)	28435	88.0	88.0
$	29 Nitrobenzene-d5 (SS)	82.00	7.213	7.203	(0.842)	31331	48.9	48.9
	31 Nitrobenzene	77.00	7.248	7.238	(0.847)	54507	93.4	93.4
	33 Isophorone	82.00	7.712	7.702	(0.901)	98307	102	102
	34 2-Nitrophenol	139.00	7.840	7.830	(0.916)	26067	86.6	86.6
	35 2,4-Dimethylphenol	107.00	7.980	7.970	(0.932)	42065	72.3	72.3
	36 Bis(2-Chloroethoxy)methane	93.00	8.166	8.156	(0.954)	50545	91.1	91.1
	39 2,4-Dichlorophenol	162.00	8.329	8.319	(0.973)	41651	84.9	84.9
	40 Benzoic acid	122.00	8.247	8.284	(0.963)	9398	35.6	35.6(a)
	41 1,2,4-Trichlorobenzene	180.00	8.457	8.447	(0.988)	49019	87.1	87.1
*	42 Naphthalene-d8	136.00	8.562	8.552	(1.000)	53272	40.0	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
43 Naphthalene	128.00	8.597	8.598	(1.004)	117615	88.0	88.0
45 4-Chloroaniline	127.00	8.736	8.732	(1.020)	34998	58.7	58.7
47 Hexachlorobutadiene	225.00	8.865	8.854	(1.035)	39510	87.7	87.7
50 4-Chloro-3-methylphenol	107.00	9.758	9.760	(1.140)	49830	92.9	92.9
53 2-Methylnaphthalene	142.00	9.991	9.981	(1.167)	80494	94.3	94.3
55 Hexachlorocyclopentadiene	237.00	10.305	10.306	(0.852)	17930	40.1	40.1
56 2,4,6-Trichlorophenol	196.00	10.584	10.574	(0.875)	33433	88.5	88.5
57 2,4,5-Trichlorophenol	196.00	10.665	10.655	(0.882)	36862	91.0	91.0
$ 58 2-Fluorobiphenyl (SS)	172.00	10.759	10.760	(0.889)	58083	51.0	51.0
59 2-Chloronaphthalene	162.00	10.968	10.970	(0.907)	85754	88.9	88.9
62 2-Nitroaniline	65.00	11.224	11.216	(0.928)	35021	97.7	97.7
64 Dimethyl phthalate	163.00	11.642	11.643	(0.962)	115433	94.5	94.5
65 Acenaphthylene	152.00	11.805	11.795	(0.976)	130717	95.8	95.8
66 2,6-Dinitrotoluene	165.00	11.747	11.736	(0.971)	26179	94.0	94.0
* 67 Acenaphthene-d10	164.00	12.096	12.097	(1.000)	30247	40.0	
68 Acenaphthene	153.00	12.177	12.167	(1.007)	82100	91.5	91.5
69 3-Nitroaniline	138.00	12.072	12.063	(0.998)	20475	78.6	78.6
70 2,4-Dinitrophenol	184.00	12.294	12.295	(1.016)	9186	66.4	66.4
71 Dibenzofuran	168.00	12.562	12.551	(1.038)	113325	92.5	92.5
72 4-Nitrophenol	109.00	12.527	12.527	(1.036)	23777	96.4	96.4(QM)
74 2,4-Dinitrotoluene	165.00	12.597	12.586	(1.041)	34726	94.5	94.5(QM)
78 Diethyl phthalate	149.00	13.258	13.248	(1.096)	118936	95.7	95.7
79 Fluorene	166.00	13.421	13.410	(1.110)	91541	91.8	91.8
80 4-Chlorophenylphenyl ether	204.00	13.480	13.469	(1.114)	49095	92.4	92.4
83 4-Nitroaniline	138.00	13.561	13.526	(1.121)	22537	94.1	94.1(M)
84 4,6-Dinitro-2-methylphenol	198.00	13.631	13.620	(0.847)	16270	79.7	79.7
85 N-Nitrosodiphenylamine	169.00	13.841	13.830	(0.860)	58100	94.1	94.1
86 N-Nitroso- & Diphenylamine	169.00	13.841	13.831	(1.144)	58100	42.1	42.1
87 1,2-Diphenylhydrazine	77.00	13.934	13.933	(0.866)	103887	85.9	85.9
$ 88 2,4,6-Tribromophenol (SS)	330.00	14.108	14.097	(1.166)	23095	99.2	99.2
93 4-Bromophenylphenyl ether	248.00	14.910	14.899	(0.926)	28702	93.8	93.8
95 Hexachlorobenzene	284.00	15.003	14.992	(1.240)	41901	93.2	93.2
98 Pentachlorophenol	266.00	15.607	15.596	(0.970)	15088	90.1	90.1
* 101 Phenanthrene-d10	188.00	16.095	16.096	(1.000)	53297	40.0	
102 Phenanthrene	178.00	16.177	16.166	(1.005)	121305	89.4	89.4
103 Anthracene	178.00	16.316	16.305	(1.014)	118937	88.7	88.7
106 Carbazole	167.00	16.804	16.811	(1.044)	106523	77.6	77.6
108 Di-n-butylphthalate	149.00	17.907	17.907	(1.113)	157885	86.4	86.4
113 Fluoranthene	202.00	19.230	19.220	(1.195)	122663	85.9	85.9
114 Benzidine	184.00	19.637	19.643	(0.873)	21179	34.6	34.6(a)
115 Pyrene	202.00	19.741	19.742	(0.878)	119962	85.6	85.6
$ 116 Terphenyl-d14 (SS)	244.00	20.218	20.218	(0.899)	48852	50.0	50.0
122 Butyl benzyl phthalate	149.00	21.413	21.402	(0.952)	60200	88.9	88.9
124 Benzo(a)anthracene	228.00	22.458	22.459	(0.999)	90497	90.0	90.0
125 3,3'-Dichlorobenzidine	252.00	22.458	22.465	(0.999)	15133	37.6	37.6
* 126 Chrysene-d12	240.00	22.482	22.483	(1.000)	33633	40.0	
127 Chrysene	228.00	22.541	22.541	(1.003)	94357	87.8	87.8
128 Bis(2-ethylhexyl)phthalate	149.00	22.692	22.693	(1.009)	76615	87.6	87.6
129 Di-n-octylphthalate	149.00	23.992	23.993	(0.947)	115607	96.9	96.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
130 Benzo(b)fluoranthene	252.00	24.620	24.609	(0.972)	84858	97.4	97.4
132 Benzo(k)fluoranthene	252.00	24.667	24.668	(0.974)	83685	87.4	87.4
134 Benzo(a)pyrene	252.00	25.225	25.226	(0.996)	69741	93.2	93.2
* 135 Perylene-d12	264.00	25.329	25.331	(1.000)	28039	40.0	
138 Indeno(1,2,3-cd)pyrene	276.00	27.340	27.341	(1.079)	66305	80.0	80.0
139 Dibenz(a,h)anthracene	278.00	27.387	27.376	(1.081)	55484	80.6	80.6
140 Benzo(g,h,i)perylene	276.00	27.880	27.876	(1.101)	53056	76.9	76.9

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Inchcape Testing Services - Environmental Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ITS5.i
Lab File ID: DN423.d
Lab Smp Id: 3520 BSD 1000/1
Analysis Type: SV
Quant Type: ISTD
Operator: WSW
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 3520 BSD BTL# 9

Calibration Date: 10/03/96
Calibration Time: 2045
Client Smp ID: 3520 BSD 1000/1
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	27981	13990	55962	16572	-40.77
42 Naphthalene-d8	85693	42846	171386	53272	-37.83
67 Acenaphthene-d10	47296	23648	94592	30247	-36.05
101 Phenanthrene-d10	83215	41608	166430	53297	-35.95
126 Chrysene-d12	56462	28231	112924	33633	-40.43
135 Perylene-d12	51173	25586	102346	28039	-45.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
16 1,4-Dichlorobenzene-	6.19	5.69	6.69	6.20	0.17
42 Naphthalene-d8	8.55	8.05	9.05	8.56	0.12
67 Acenaphthene-d10	12.10	11.60	12.60	12.10	-0.01
101 Phenanthrene-d10	16.10	15.60	16.60	16.09	-0.01
126 Chrysene-d12	22.48	21.98	22.98	22.48	0.00
135 Perylene-d12	25.33	24.83	25.83	25.33	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Environmental Laboratories

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 3520 BSD 1000/1
Level: LOW
Data Type: MS DATA
SpikeList File: 8270_100.spk
Method File: /chem3/ITS5.i/100396.b/abn5.m
Misc Info: 1000/1 09-30-96 3520 BSD BTL# 9

Client SDG: 100396
Fraction: SV
Client Smp ID: 3520 BSD 1000/1
Operator: WSW
SampleType: BSD
Quant Type: ISTD

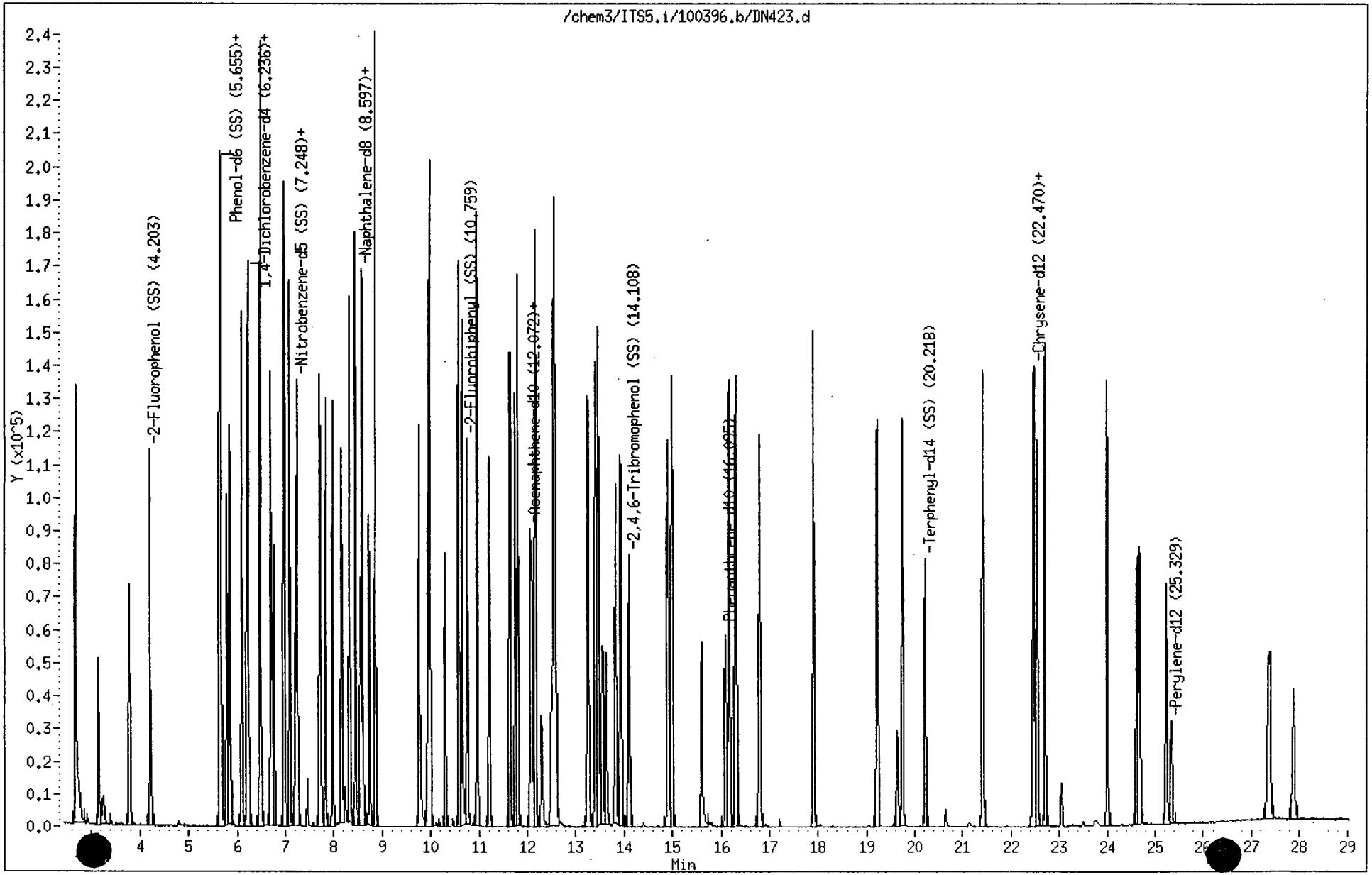
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
11 Phenol	100	86.1	86.10	5-112
14 2-Chlorophenol	100	81.7	81.68	23-134
17 1,4-Dichlorobenzen	100	79.8	79.79	20-124
41 1,2,4-Trichloroben	100	87.1	87.15	44-142
50 4-Chloro-3-methylp	100	92.9	92.86	22-147
68 Acenaphthene	100	91.5	91.47	47-145
72 4-Nitrophenol	100	96.4	96.35	10-132
74 2,4-Dinitrotoluene	100	94.5	94.53	39-139
98 Pentachlorophenol	100	90.1	90.13	14-176
115 Pyrene	100	85.6	85.57	52-115
26 N-Nitroso-di-n-pro	100	93.9	93.87	10-230

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 6 2-Fluorophenol (SS	100	67.9	67.88	30-120
$ 10 Phenol-d6 (SS)	100	79.4	79.41	30-110
$ 29 Nitrobenzene-d5 (S	50.0	48.9	97.78	35-114
$ 58 2-Fluorobiphenyl (	50.0	51.0	102.08	43-116
$ 88 2,4,6-Tribromophen	100	99.2	99.25	25-135
$ 116 Terphenyl-d14 (SS)	50.0	50.0	100.10	33-141

Data File: /chem3/ITS5.i/100396.b/DN423.d
Date : 04-OCT-1996 01:08
Client ID: 3520 BSD 1000/1
Sample Info: IL_8270_L;;AB879-90;1
Volume Injected (uL): 1.0
Column phase: DB-5

Instrument: ITS5.i

Operator: WSW
Column diameter: 0.25



PREPARATION AND ANALYSIS LOGS

BATCH: AB879-90

Start Date/Time: 09-30-96 \ 1045

Method 3520B for BNA Compounds in Water (8270)

ITS Environmental, Dallas, Tx (214) 238-5591

Sample I.D.:	RE-EXTRACT?	TCLP?	CLIENT I.D.:	Initial pH	sample volume (1.0L)	100ml CH2Cl2 lot# 33303	1.0 ml BNA surr soln. 100ug/ml Acid 50 B/N Lot # AB868-24	1.0 ml BNA spk. soln. 100 ug/ml all compounds Lot # AB868-16, AB868-26	adjust ph<2 w/1:1 H2SO4	4hr. CLLE Extraction Start: 1045 End: 1445	adjust pH >11 w/NaOH	4hr. CLLE Extraction Start: 1445 End: 1845	conc. to ~4ml in CLLE	Transfer to micro K-D	micro K-D <1 ml @ ~80C	final volume 1.0ml	store in 1.8ml clear vials	notes/comments
BLANK					TP	GG	TP		TP	TP	PS	PS	PS	PS	PS	PS	PS	
BS					↓	↓	↓	TP ↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
BSD					↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
10779-6			Green Tank		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
10809-1			MWDOORFIMW16		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
-3			MWDOORFIMW2		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
-4			RFIMW15		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
-5			RFIMW115F		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
10851-1			City of El Paso, CEA-		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
-2			City of El Paso, CEA-		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
-3			City of El Paso, CEA-		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
-4			City of El Paso, CEA-		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
-5			City of El Paso, CEA-		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
-6			City of El Paso, CEA-		750	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

Date/Time Completed

Approval

434

SAMPLE INFORMATION SUMMARY

BATCH: /chem3/ITS5.i/092696A.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
DN316.d	26-SEP-1996 11:39	DFTPP	1.00	ITS5	dftp5.m	092696.b
DN317.d	26-SEP-1996 12:03	Cal Level 2	1.00	ITS5	abn5.m	092696.b
DN318.d	26-SEP-1996 12:40	Cal Level 2	1.00	ITS5	abn5.m	092696.b
DN319.d	26-SEP-1996 13:17	Cal Level 5	1.00	ITS5	abn5.m	092696.b
DN320.d	26-SEP-1996 13:53	Cal Level 4	1.00	ITS5	abn5.m	092696.b
DN321.d	26-SEP-1996 14:30	Cal Level 3	1.00	ITS5	abn5.m	092696.b
DN322.d	26-SEP-1996 15:07	Cal Level 1	1.00	ITS5	abn5.m	092696.b
DN323.d	26-SEP-1996 15:44	Cal Level 5	1.00	ITS5	abn5.m	092696.b
DN324.d	26-SEP-1996 16:20	Cal Level 4	1.00	ITS5	abn5.m	092696.b
DN325.d	26-SEP-1996 16:57	Cal Level 3	1.00	ITS5	abn5.m	092696.b
DN326.d	26-SEP-1996 17:34	Cal Level 1	1.00	ITS5	abn5.m	092696.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
DN316.d	NONE	SV	DFTPP AB396-62-2	092696	ITS5 DFTPP 04-01-96	SV10809
DN317.d	NONE	SV	SSTD050 AB396-72-2	AB396-72-2 08-29-96	SSTD050 AB396-72-2	SV10809
DN318.d	NONE	SV	ANLN050 AB396-56-2	AB396-56-2 03-12-96	ANLN050 AB396-56-2	SV10809
DN319.d	NONE	SV	SSTD160 AB396-72-2	AB396-72-2 08-29-96	SSTD160 AB396-72-2	SV10809
DN320.d	NONE	SV	SSTD120 AB396-72-2	AB396-72-2 08-29-96	SSTD120 AB396-72-2	SV10809
DN321.d	NONE	SV	SSTD080 AB396-72-2	AB396-72-2 08-29-96	SSTD080 AB396-72-2	SV10809
DN322.d	NONE	SV	SSTD020 AB396-72-2	AB396-72-2 08-29-96	SSTD020 AB396-72-2	SV10809
DN323.d	NONE	SV	ANLN160 AB396-56-2	AB396-56-2 03-12-96	ANLN160 AB396-56-2	SV10809
DN324.d	NONE	SV	ANLN120 AB396-56-2	AB396-56-2 03-12-96	ANLN120 AB396-56-2	SV10809
DN325.d	NONE	SV	ANLN080 AB396-56-2	AB396-56-2 03-12-96	ANLN080 AB396-56-2	SV10809
DN326.d	NONE	SV	ANLN020 AB396-56-2	AB396-56-2 03-12-96	ANLN020 AB396-56-2	SV10809

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
DN316.d	all.sub		1060265	1060165	367179	1060103
DN317.d	STD050.sub	AFCEE_Soil.spk	1060275	1060165	1050482	1060251
DN318.d	ANILINE_50.sub	8270_100.spk	1060276	1060165	1050482	1060251
DN319.d	STD050.sub	AFCEE_Soil.spk	1060266	1060165	1050482	1060251
DN320.d	STD050.sub	AFCEE_Soil.spk	1060267	1060165	1050482	1060251
DN321.d	STD050.sub	AFCEE_Soil.spk	1060270	1060165	1050482	1060251
DN322.d	STD050.sub	AFCEE_Soil.spk	1060271	1060165	1050482	1060251
DN323.d	ANILINE_50.sub	AFCEE_Liq.spk	1060272	1060165	1050482	1060251
DN324.d	ANILINE_50.sub	AFCEE_Liq.spk	1060273	1060165	1050482	1060251
DN325.d	ANILINE_50.sub	8270_100.spk	1060274	1060165	1050482	1060251
DN326.d	ANILINE_50.sub	8270_100.spk	1060277	1060165	1050482	1060251

SAMPLE INFORMATION SUMMARY

BATCH: /chem3/ITS5.i/100396.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
DN415.d	03-OCT-96 20:26	DFTPP	1.00	ITS5	dftp5.m	100396.b
DN416.d	03-OCT-1996 20:45	Continuing Cal	1.00	ITS5	abn5.m	100396.b
DN417.d	03-OCT-1996 21:28	Continuing Cal	1.00	ITS5	abn5.m	100396.b
DN418.d	03-OCT-1996 22:05	Continuing Cal	1.00	ITS5	abn5.m	100396.b
DN419.d	03-OCT-1996 22:42	Continuing Cal	1.00	ITS5	abn5.m	100396.b
DN420.d	03-OCT-1996 23:18	Continuing Cal	1.00	ITS5	abn5.m	100396.b
DN421.d	03-OCT-1996 23:55	BLANK	1.00	ITS5	abn5.m	100396.b
DN422.d	04-OCT-1996 00:31	BS	1.00	ITS5	abn5.m	100396.b
DN423.d	04-OCT-1996 01:08	BSD	1.00	ITS5	abn5.m	100396.b
DN424.d	04-OCT-1996 01:44	Unknown	1.00	ITS5	abn5.m	100396.b
DN425.d	04-OCT-1996 02:21	Unknown	1.00	ITS5	abn5.m	100396.b
DN426.d	04-OCT-1996 02:58	Unknown	10.00	ITS5	abn5.m	100396.b
DN427.d	04-OCT-1996 03:34	Unknown	5.00	ITS5	abn5.m	100396.b
DN428.d	04-OCT-1996 04:11	Unknown	1.00	ITS5	abn5.m	100396.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
DN415.d	NONE	SV	DFTPP AB396-62-2	100396	ITS5 DFTPP 04-01-96	100396
DN416.d	NONE	SV	SSTD050 AB396-72-2	AB396-72-2 08-29-96	SSTD050 AB396-72-2	100396
DN417.d	NONE	SV	ANLN050 AB396-56-2	AB396-56-2 03-12-96	ANLN050 AB396-56-2	100396
DN418.d	NONE	SV	PHEN050 AB396-44-2	AB396-44-2 02-07-96	PHEN050 AB396-44-2	100396
DN419.d	NONE	SV	CHLO050 AB396-45-1	AB396-45-1 02-07-96	CHLO050 AB396-45-1	100396
DN420.d	NONE	SV	AMIN050 AB396-56-2	AB396-56-2 03-12-96	AMIN050 AB396-56-2	100396
DN421.d	LIQUID	SV	3520 Blank 1000/1	AB879-90 09-30-96	3520 Blank 1000/1	100396
DN422.d	LIQUID	SV	3520 BS 1000/1	AB879-90 09-30-96	3520 BS 1000/1	100396
DN423.d	LIQUID	SV	3520 BSD 1000/1	AB879-90 09-30-96	3520 BSD 1000/1	100396
DN424.d	LIQUID	SV	D96-10809-3	AB879-90 09-30-96	Kearney 1000/1	100396
DN425.d	LIQUID	SV	D96-10809-5	AB879-90 09-30-96	Kearney 1000/1	100396
DN426.d	LIQUID	SV	D96-10809-4	AB879-90 09-30-96	Kearney 1000/10	100396
DN427.d	LIQUID	SV	D96-10809-1	AB879-90 09-30-96	Kearney 1000/5	100396
DN428.d	LIQUID	SV	D96-10809-4	AB879-90 09-30-96	Kearney 1000/1	100396

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
DN415.d	all.sub		1061049	1061050	367179	1060954
DN416.d	STD050.sub	8270_100.spk	1061056	1061050	1050482	1060958
DN417.d	ANILINE_50.sub	8270_100.spk	1061060	1061050	1050482	1060958
DN418.d	Phen.sub	8270_100.spk	1061063	1061050	1050482	1060958
DN419.d	Chloro.sub	8270_100.spk	1061065	1061050	1050482	1060958
DN420.d	Amine.sub	8270_100.spk	1061067	1061050	1050482	1060958
DN421.d	all.sub	8270_100.spk	1061069	1061050	1050482	1060958
DN422.d	all.sub	8270_100.spk	1061262	1061050	1050482	1060958
DN423.d	all.sub	8270_100.spk	1061263	1061050	1050482	1060958
DN424.d	all.sub	8270_100.spk	1061264	1061050	1050482	1060958
DN425.d	all.sub	8270_100.spk	1061265	1061050	1050482	1060958
DN426.d	all.sub	8270_100.spk	1061266	1061050	1050482	1060958
DN427.d	all.sub	8270_100.spk	1061267	1061050	1050482	1060958
DN428.d	all.sub	8270_100.spk	1061268	1061050	1050482	1060958

SAMPLE INFORMATION SUMMARY

BATCH: /chem3/ITS5.i/100396.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
DN429.d	04-OCT-1996 04:47	Unknown	1.00	ITS5	abn5.m	100396.b

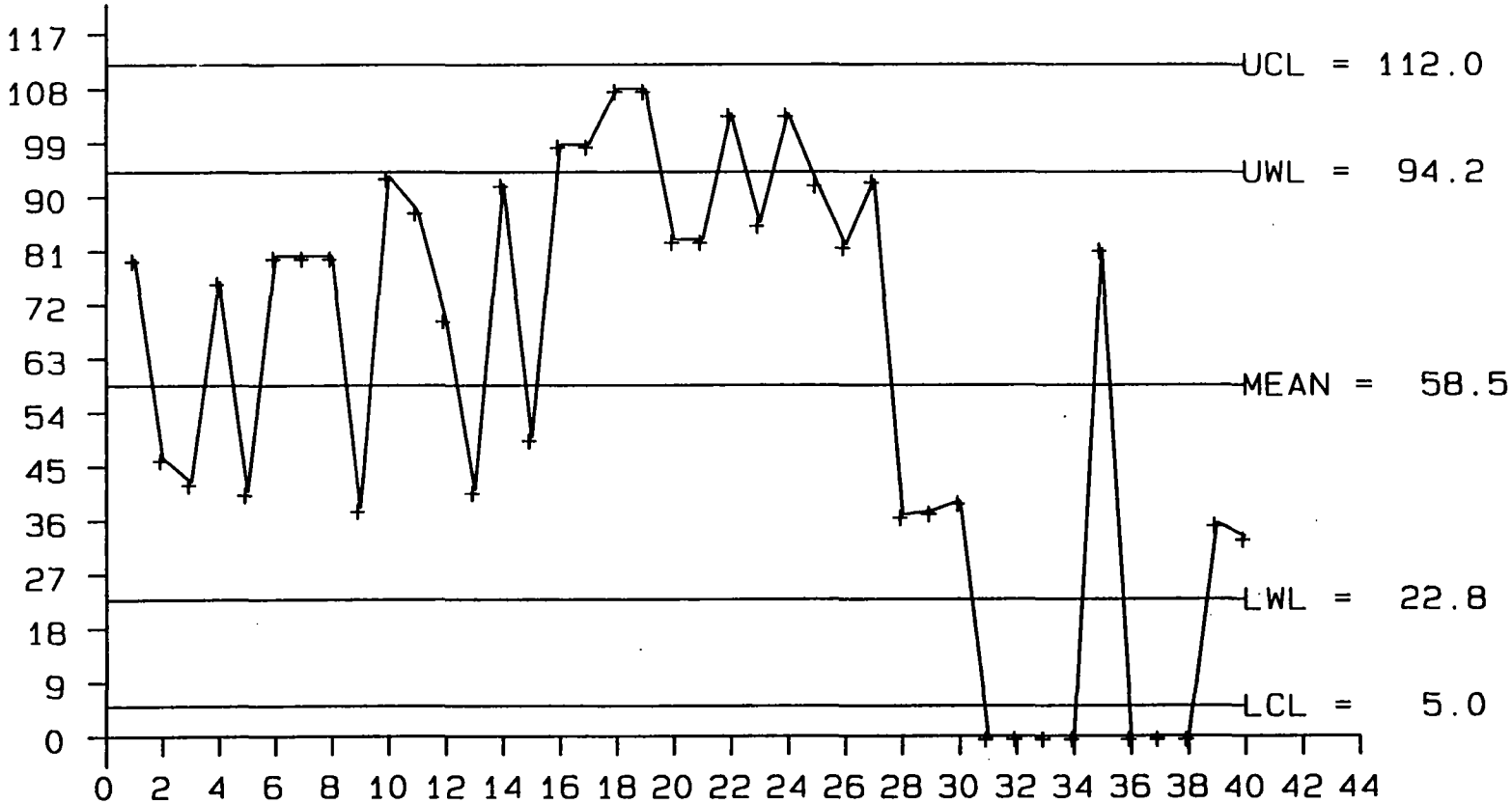
Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
DN429.d	LIQUID	SV	D96-10809-1	AB879-90 09-30-96	Kearney 1000/1	100396

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
DN429.d	all.sub	8270_100.spk	1061269	1061050	1050482	1060958

CONTROL CHARTS

8270_L Phenol (LCS RECOVERY)

Produced by GKHORTON on 8-NOV-1996 09: 19: 57.61



Inchcape Testing Services
Environmental Laboratories

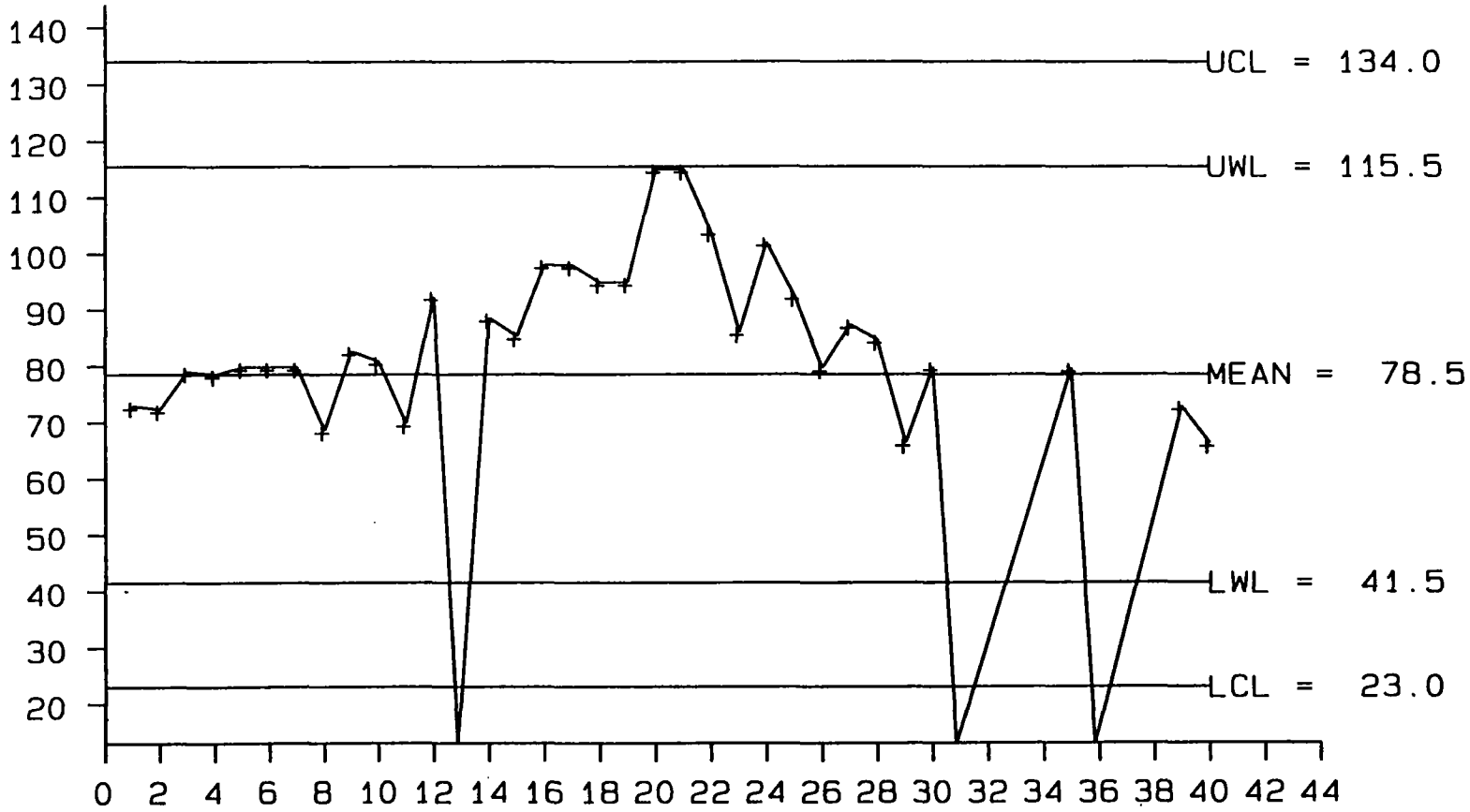
Data Points for: 8270_L Phenol
Chart Type: LCS RECOVERY
Generated on: 8-NOV-1996 09:20

Current Control Limits
(5.0 - 112.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB816-97	29-JUL-1996 0	79.8
2	AB846-8	29-JUL-1996 0	46.5
3	AB846-25	31-JUL-1996 0	42.4
4	AB846-32	2-AUG-1996 0	76.0
5	AB846-47	5-AUG-1996 0	40.7
6	0809827001	10-AUG-1996 0	80.2
7		10-AUG-1996 0	80.2
8	AB846-91	10-AUG-1996 0	80.2
9	AB847-40	15-AUG-1996 0	38.0
10	AB847-52	19-AUG-1996 0	93.5
11	AB847-66	20-AUG-1996 0	87.8
12	AB848-15	27-AUG-1996 0	69.7
13	AB848-71	31-AUG-1996 0	41.0
14	AB848-92	6-SEP-1996 0	92.3
15	AB848-97	6-SEP-1996 0	49.8
16	0909827001	12-SEP-1996 0	98.8
17	AB878-31	12-SEP-1996 0	98.8
18	AB878-97	18-SEP-1996 0	108
19	0917827001	18-SEP-1996 0	108
20	0919827002	20-SEP-1996 0	82.9
21	AB879-17	20-SEP-1996 0	82.9
22	AB879-34	23-SEP-1996 0	104
23	AB879-37	24-SEP-1996 0	85.7
24	AB879-52	25-SEP-1996 0	104
25	AB879-61	26-SEP-1996 0	92.4
26	AB879-69	26-SEP-1996 0	82.0
27	AB902-9	3-OCT-1996 0	92.9
28	AB902-41	9-OCT-1996 0	36.9
29	AB903-34	23-OCT-1996 0	37.5
30	AB903-56	23-OCT-1996 0	39.2
31	AB903-51	24-OCT-1996 0	0.0
32	AB903-52	25-OCT-1996 0	0.0
33	AB903-56H	25-OCT-1996 0	0.0
34	AB903-81	28-OCT-1996 0	0.0
35	AB925-1	29-OCT-1996 0	81.5
36	AB903-66	29-OCT-1996 0	0.0
37	AB903-90	29-OCT-1996 0	0.0
38	AB903-89	29-OCT-1996 0	0.0
39	AB925-18A9	31-OCT-1996 0	35.5
40	AB925-18	31-OCT-1996 0	33.2

8270_L 2-Chlorophenol (LCS RECOVERY)

Produced by GKHORTON on 8-NOV-1996 09: 32: 05.87



Inchcape Testing Services
Environmental Laboratories

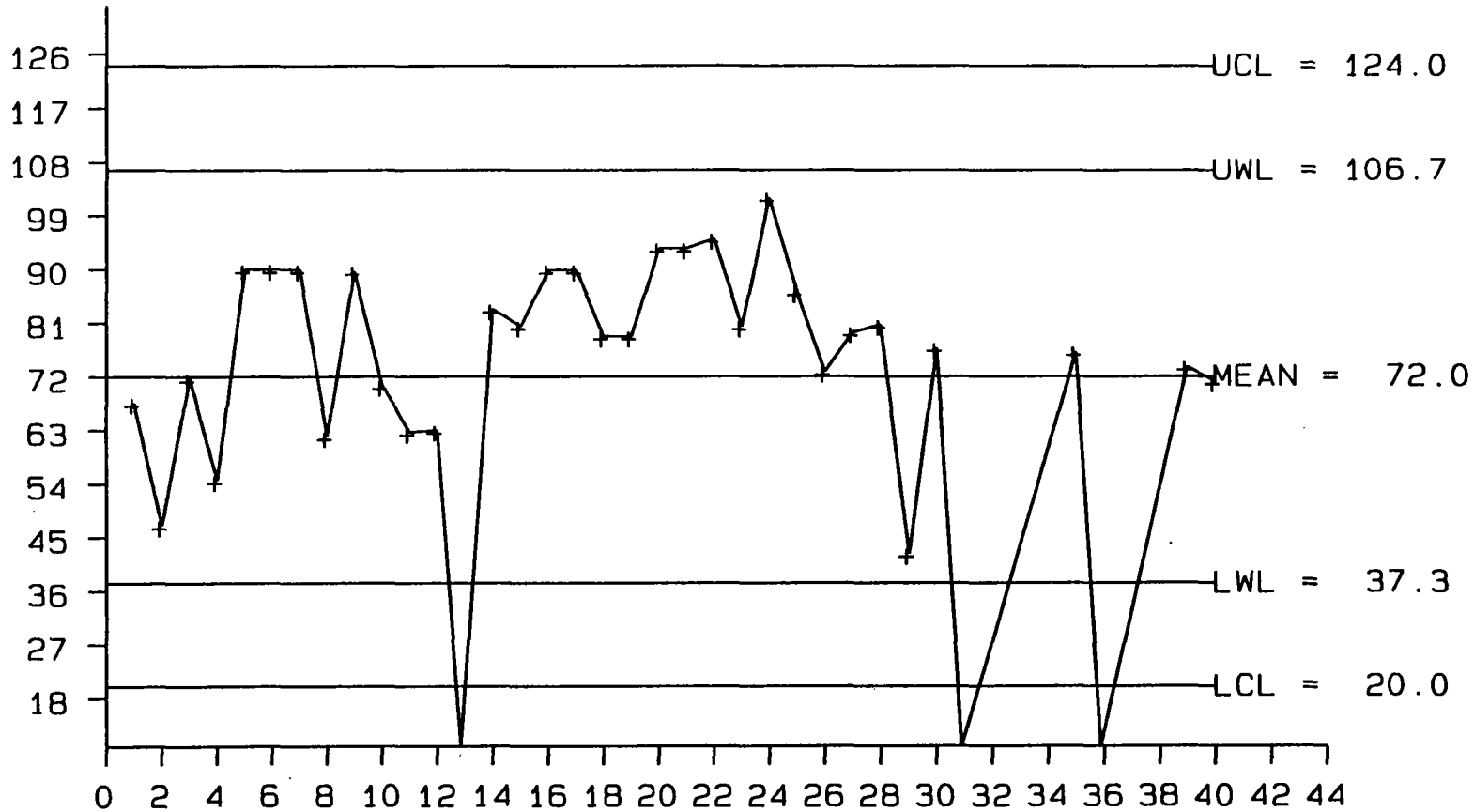
Data Points for: 8270_L 2-Chlorophenol
Chart Type: LCS RECOVERY
Generated on: 8-NOV-1996 09:32

Current Control Limits
(23.0 - 134.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB846-8	29-JUL-1996 0	72.9
2	AB846-25	31-JUL-1996 0	72.3
3	AB846-32	2-AUG-1996 0	79.0
4	AB846-47	5-AUG-1996 0	78.5
5	0809827001	10-AUG-1996 0	79.8
6		10-AUG-1996 0	79.8
7	AB846-91	10-AUG-1996 0	79.8
8	AB847-40	15-AUG-1996 0	68.6
9	AB847-52	19-AUG-1996 0	82.6
10	AB847-66	20-AUG-1996 0	80.8
11	AB848-15	27-AUG-1996 0	69.8
12	AB848-71	31-AUG-1996 0	92.3
13	0830827001	5-SEP-1996 0	0.0
14	AB848-92	6-SEP-1996 0	88.5
15	AB848-97	6-SEP-1996 0	85.3
16	0909827001	12-SEP-1996 0	98.0
17	AB878-31	12-SEP-1996 0	98.0
18	AB878-97	18-SEP-1996 0	94.9
19	0917827001	18-SEP-1996 0	94.9
20	0919827002	20-SEP-1996 0	115
21	AB879-17	20-SEP-1996 0	115
22	AB879-34	23-SEP-1996 0	104
23	AB879-37	24-SEP-1996 0	86.0
24	AB879-52	25-SEP-1996 0	102
25	AB879-61	26-SEP-1996 0	92.4
26	AB879-69	26-SEP-1996 0	79.6
27	AB902-9	3-OCT-1996 0	87.3
28	AB902-41	9-OCT-1996 0	84.6
29	AB903-34	23-OCT-1996 0	66.3
30	AB903-56	23-OCT-1996 0	79.8
31	AB903-51	24-OCT-1996 0	0.0
32	AB903-52	25-OCT-1996 0	0.0
33	AB903-56H	25-OCT-1996 0	0.0
34	AB903-81	28-OCT-1996 0	0.0
35	AB925-1	29-OCT-1996 0	79.6
36	AB903-66	29-OCT-1996 0	0.0
37	AB903-90	29-OCT-1996 0	0.0
38	AB903-89	29-OCT-1996 0	0.0
39	AB925-18A9	31-OCT-1996 0	72.8
40	AB925-18	31-OCT-1996 0	66.2

8270_L 1,4-Dichlorobenzene (LCS RECOVERY)

Produced by GKHORTON on 8-NOV-1996 09:35:23.00



Inchcape Testing Services
Environmental Laboratories

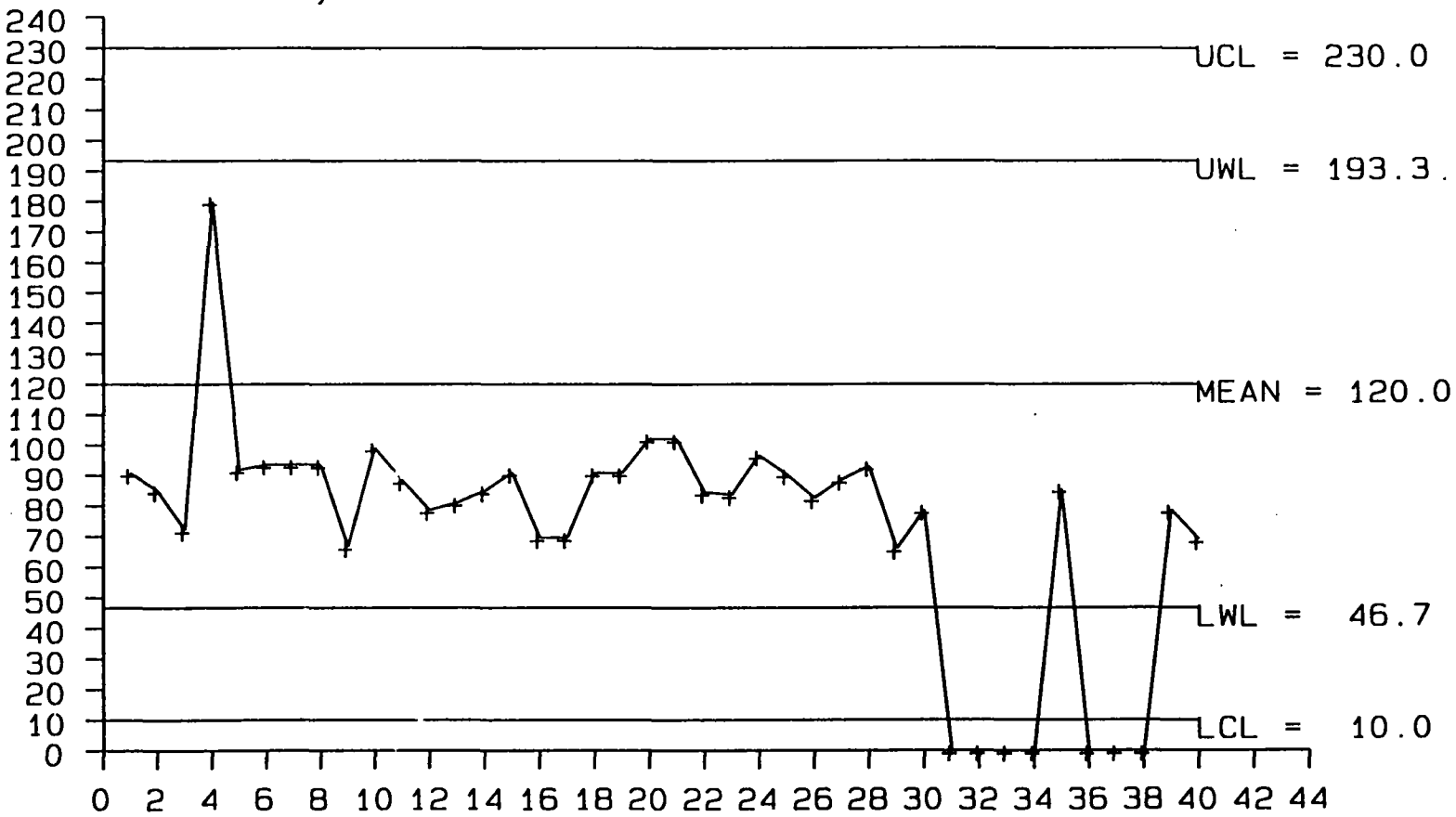
Data Points for: 8270_L 1,4-Dichlorobenzene
Chart Type: LCS RECOVERY
Generated on: 8-NOV-1996 09:35

Current Control Limits
(20.0 - 124.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB846-8	29-JUL-1996 0	67.6
2	AB846-25	31-JUL-1996 0	47.0
3	AB846-32	2-AUG-1996 0	71.7
4	AB846-47	5-AUG-1996 0	54.7
5	0809827001	10-AUG-1996 0	90.0
6		10-AUG-1996 0	90.0
7	AB846-91	10-AUG-1996 0	90.0
8	AB847-40	15-AUG-1996 0	62.0
9	AB847-52	19-AUG-1996 0	89.7
10	AB847-66	20-AUG-1996 0	70.5
11	AB848-15	27-AUG-1996 0	62.7
12	AB848-71	31-AUG-1996 0	63.0
13	0830827001	5-SEP-1996 0	0.0
14	AB848-92	6-SEP-1996 0	83.3
15	AB848-97	6-SEP-1996 0	80.5
16	0909827001	12-SEP-1996 0	89.9
17	AB878-31	12-SEP-1996 0	89.9
18	AB878-97	18-SEP-1996 0	78.8
19	0917827001	18-SEP-1996 0	78.8
20	AB879-17	20-SEP-1996 0	93.5
21	0919827002	20-SEP-1996 0	93.5
22	AB879-34	23-SEP-1996 0	95.1
23	AB879-37	24-SEP-1996 0	80.4
24	AB879-52	25-SEP-1996 0	102
25	AB879-61	26-SEP-1996 0	86.2
26	AB879-69	26-SEP-1996 0	72.8
27	AB902-9	3-OCT-1996 0	79.4
28	AB902-41	9-OCT-1996 0	80.7
29	AB903-34	23-OCT-1996 0	42.2
30	AB903-56	23-OCT-1996 0	76.8
31	AB903-51	24-OCT-1996 0	0.0
32	AB903-52	25-OCT-1996 0	0.0
33	AB903-56H	25-OCT-1996 0	0.0
34	AB903-81	28-OCT-1996 0	0.0
35	AB925-1	29-OCT-1996 0	76.1
36	AB903-66	29-OCT-1996 0	0.0
37	AB903-90	29-OCT-1996 0	0.0
38	AB903-89	29-OCT-1996 0	0.0
39	AB925-18A9	31-OCT-1996 0	73.6
40	AB925-18	31-OCT-1996 0	71.2

8270_L N-Nitroso-Di-N-propylamine (LCS RECOVERY)

Produced by GKHORTON on 8-NOV-1996 09: 37: 41.34



Inchcape Testing Services
Environmental Laboratories

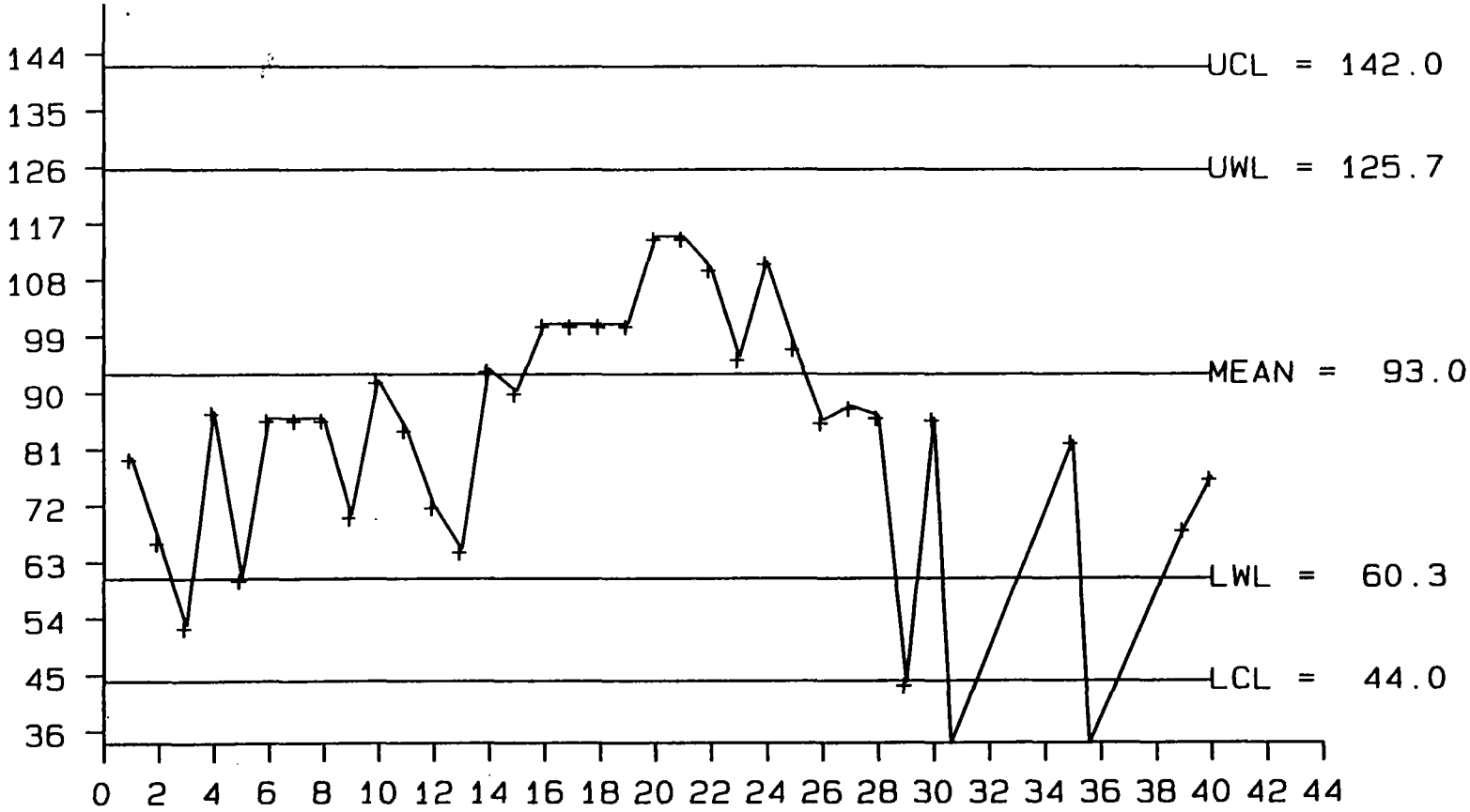
Data Points for: 8270_L N-Nitroso-Di-N-propylamine
Chart Type: LCS RECOVERY
Generated on: 8-NOV-1996 09:37

Current Control Limits
(10.0 - 230.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB816-97	29-JUL-1996 0	90.7
2	AB846-8	29-JUL-1996 0	85.1
3	AB846-25	31-JUL-1996 0	72.2
4	AB846-32	2-AUG-1996 0	180
5	AB846-47	5-AUG-1996 0	91.8
6	0809827001	10-AUG-1996 0	93.5
7		10-AUG-1996 0	93.5
8	AB846-91	10-AUG-1996 0	93.5
9	AB847-40	15-AUG-1996 0	66.7
10	AB847-52	19-AUG-1996 0	99.0
11	AB847-66	20-AUG-1996 0	88.3
12	AB848-15	27-AUG-1996 0	78.6
13	AB848-71	31-AUG-1996 0	81.0
14	AB848-92	6-SEP-1996 0	84.8
15	AB848-97	6-SEP-1996 0	90.9
16	0909827001	12-SEP-1996 0	69.6
17	AB878-31	12-SEP-1996 0	69.6
18	AB878-97	18-SEP-1996 0	90.8
19	0917827001	18-SEP-1996 0	90.8
20	0919827002	20-SEP-1996 0	102
21	AB879-17	20-SEP-1996 0	102
22	AB879-34	23-SEP-1996 0	84.4
23	AB879-37	24-SEP-1996 0	83.6
24	AB879-52	25-SEP-1996 0	96.6
25	AB879-61	26-SEP-1996 0	90.4
26	AB879-69	26-SEP-1996 0	82.5
27	AB902-9	3-OCT-1996 0	88.5
28	AB902-41	9-OCT-1996 0	93.0
29	AB903-34	23-OCT-1996 0	66.0
30	AB903-56	23-OCT-1996 0	78.5
31	AB903-51	24-OCT-1996 0	0.0
32	AB903-52	25-OCT-1996 0	0.0
33	AB903-56H	25-OCT-1996 0	0.0
34	AB903-81	28-OCT-1996 0	0.0
35	AB925-1	29-OCT-1996 0	85.4
36	AB903-66	29-OCT-1996 0	0.0
37	AB903-90	29-OCT-1996 0	0.0
38	AB903-89	29-OCT-1996 0	0.0
39	AB925-18A9	31-OCT-1996 0	78.7
40	AB925-18	31-OCT-1996 0	69.0

8270_L 1, 2, 4-Trichlorobenzene (LCS RECOVERY)

Produced by GKHORTON on 8-NOV-1996 09: 41: 59.31



Inchcape Testing Services
Environmental Laboratories

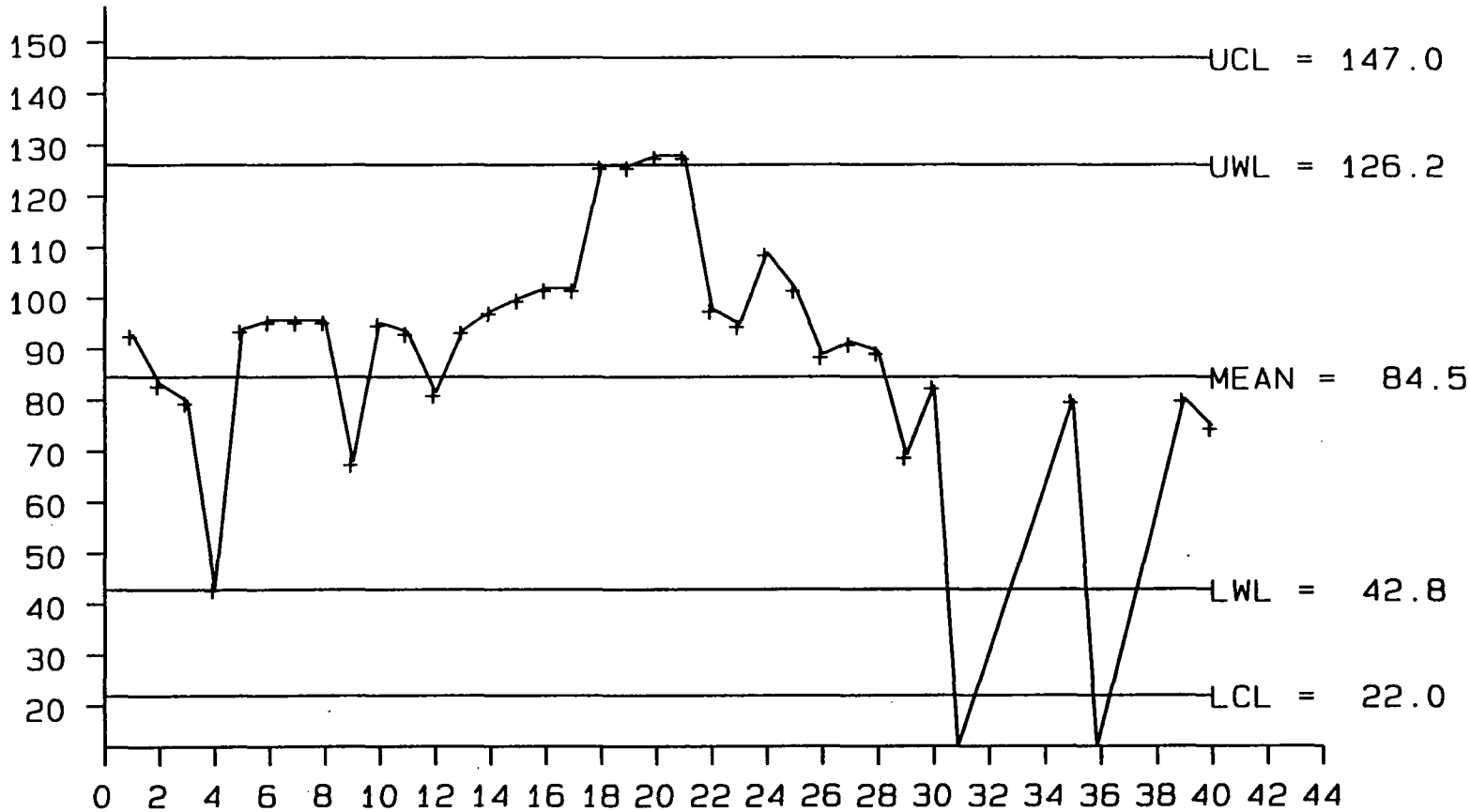
Data Points for: 8270_L 1,2,4-Trichlorobenzene
Chart Type: LCS RECOVERY
Generated on: 8-NOV-1996 09:42

Current Control Limits
(44.0 - 142.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB816-97	29-JUL-1996 0	79.8
2	AB846-8	29-JUL-1996 0	66.5
3	AB846-25	31-JUL-1996 0	52.9
4	AB846-32	2-AUG-1996 0	87.2
5	AB846-47	5-AUG-1996 0	60.5
6	0809827001	10-AUG-1996 0	86.0
7		10-AUG-1996 0	86.0
8	AB846-91	10-AUG-1996 0	86.0
9	AB847-40	15-AUG-1996 0	70.5
10	AB847-52	19-AUG-1996 0	92.1
11	AB847-66	20-AUG-1996 0	84.4
12	AB848-15	27-AUG-1996 0	72.1
13	AB848-71	31-AUG-1996 0	65.0
14	AB848-92	6-SEP-1996 0	93.9
15	AB848-97	6-SEP-1996 0	90.3
16	0909827001	12-SEP-1996 0	101
17	AB878-31	12-SEP-1996 0	101
18	AB878-97	18-SEP-1996 0	101
19	0917827001	18-SEP-1996 0	101
20	0919827002	20-SEP-1996 0	115
21	AB879-17	20-SEP-1996 0	115
22	AB879-34	23-SEP-1996 0	110
23	AB879-37	24-SEP-1996 0	95.7
24	AB879-52	25-SEP-1996 0	111
25	AB879-61	26-SEP-1996 0	97.4
26	AB879-69	26-SEP-1996 0	85.6
27	AB902-9	3-OCT-1996 0	87.9
28	AB902-41	9-OCT-1996 0	86.4
29	AB903-34	23-OCT-1996 0	43.7
30	AB903-56	23-OCT-1996 0	86.1
31	AB903-51	24-OCT-1996 0	0.0
32	AB903-52	25-OCT-1996 0	0.0
33	AB903-56H	25-OCT-1996 0	0.0
34	AB903-81	28-OCT-1996 0	0.0
35	AB925-1	29-OCT-1996 0	82.4
36	AB903-66	29-OCT-1996 0	0.0
37	AB903-90	29-OCT-1996 0	0.0
38	AB903-89	29-OCT-1996 0	0.0
39	AB925-18A9	31-OCT-1996 0	68.4
40	AB925-18	31-OCT-1996 0	76.6

8270_L 4-Chloro-3-methylphenol (LCS RECOVERY)

Produced by GKHORTON on 8-NOV-1996 09: 44: 23.00



Inchcape Testing Services
Environmental Laboratories

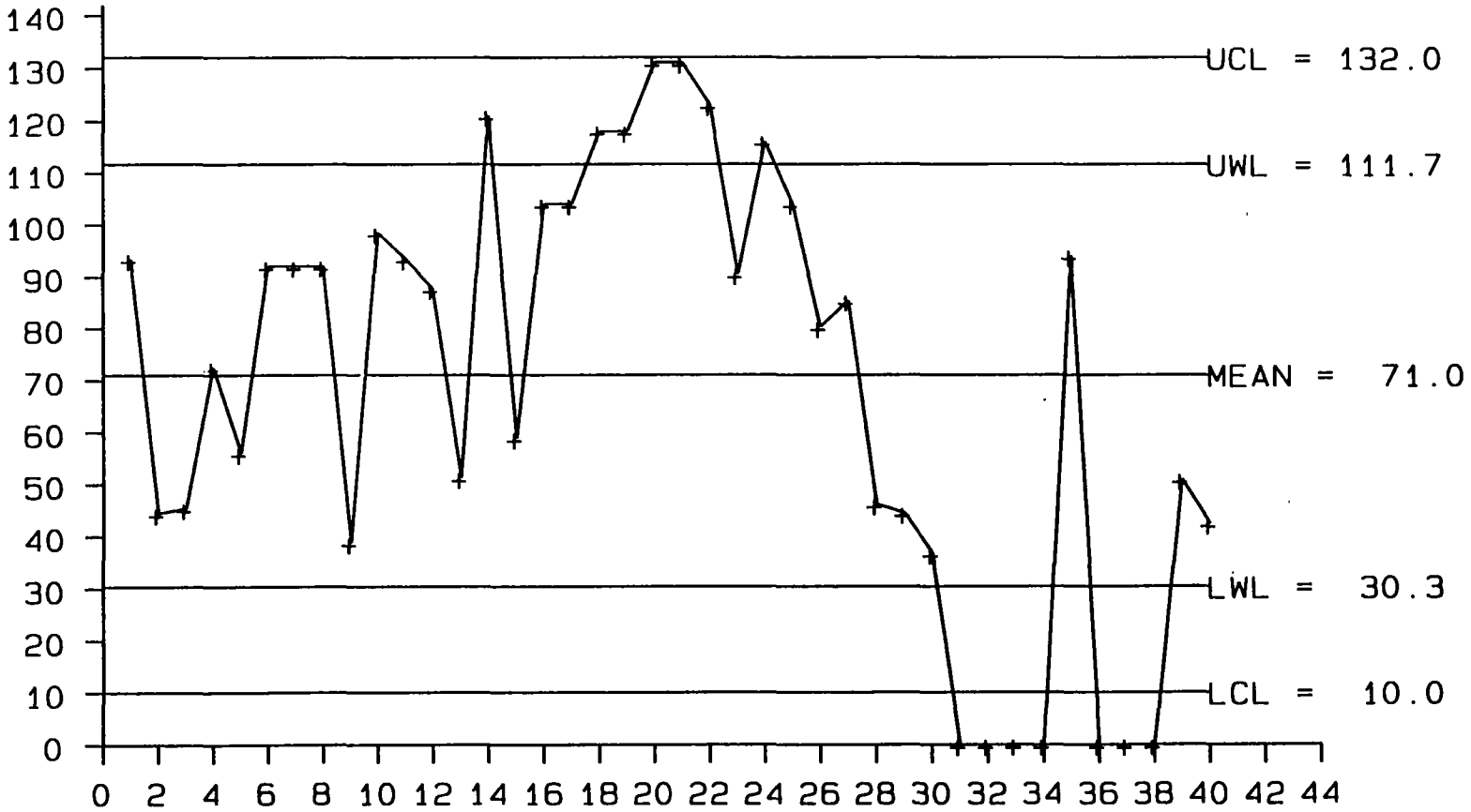
Data Points for: 8270_L 4-Chloro-3-methylphenol
Chart Type: LCS RECOVERY
Generated on: 8-NOV-1996 09:44

Current Control Limits
(22.0 - 147.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB816-97	29-JUL-1996 0	93.0
2	AB846-8	29-JUL-1996 0	83.2
3	AB846-25	31-JUL-1996 0	79.8
4	AB846-32	2-AUG-1996 0	43.3
5	AB846-47	5-AUG-1996 0	93.9
6	0809827001	10-AUG-1996 0	95.7
7		10-AUG-1996 0	95.7
8	AB846-91	10-AUG-1996 0	95.7
9	AB847-40	15-AUG-1996 0	67.9
10	AB847-52	19-AUG-1996 0	95.2
11	AB847-66	20-AUG-1996 0	93.4
12	AB848-15	27-AUG-1996 0	81.4
13	AB848-71	31-AUG-1996 0	93.7
14	AB848-92	6-SEP-1996 0	97.5
15	AB848-97	6-SEP-1996 0	100
16	0909827001	12-SEP-1996 0	102
17	AB878-31	12-SEP-1996 0	102
18	AB878-97	18-SEP-1996 0	126
19	0917827001	18-SEP-1996 0	126
20	0919827002	20-SEP-1996 0	128
21	AB879-17	20-SEP-1996 0	128
22	AB879-34	23-SEP-1996 0	98.0
23	AB879-37	24-SEP-1996 0	94.9
24	AB879-52	25-SEP-1996 0	109
25	AB879-61	26-SEP-1996 0	102
26	AB879-69	26-SEP-1996 0	88.9
27	AB902-9	3-OCT-1996 0	91.4
28	AB902-41	9-OCT-1996 0	89.6
29	AB903-34	23-OCT-1996 0	69.2
30	AB903-56	23-OCT-1996 0	82.8
31	AB903-51	24-OCT-1996 0	0.0
32	AB903-52	25-OCT-1996 0	0.0
33	AB903-56H	25-OCT-1996 0	0.0
34	AB903-81	28-OCT-1996 0	0.0
35	AB925-1	29-OCT-1996 0	80.1
36	AB903-66	29-OCT-1996 0	0.0
37	AB903-90	29-OCT-1996 0	0.0
38	AB903-89	29-OCT-1996 0	0.0
39	AB925-18A9	31-OCT-1996 0	80.3
40	AB925-18	31-OCT-1996 0	74.9

8270_L 4-Nitrophenol (LCS RECOVERY)

Produced by GKHORTON on 8-NOV-1996 09:51:39.00



Inchcape Testing Services
Environmental Laboratories

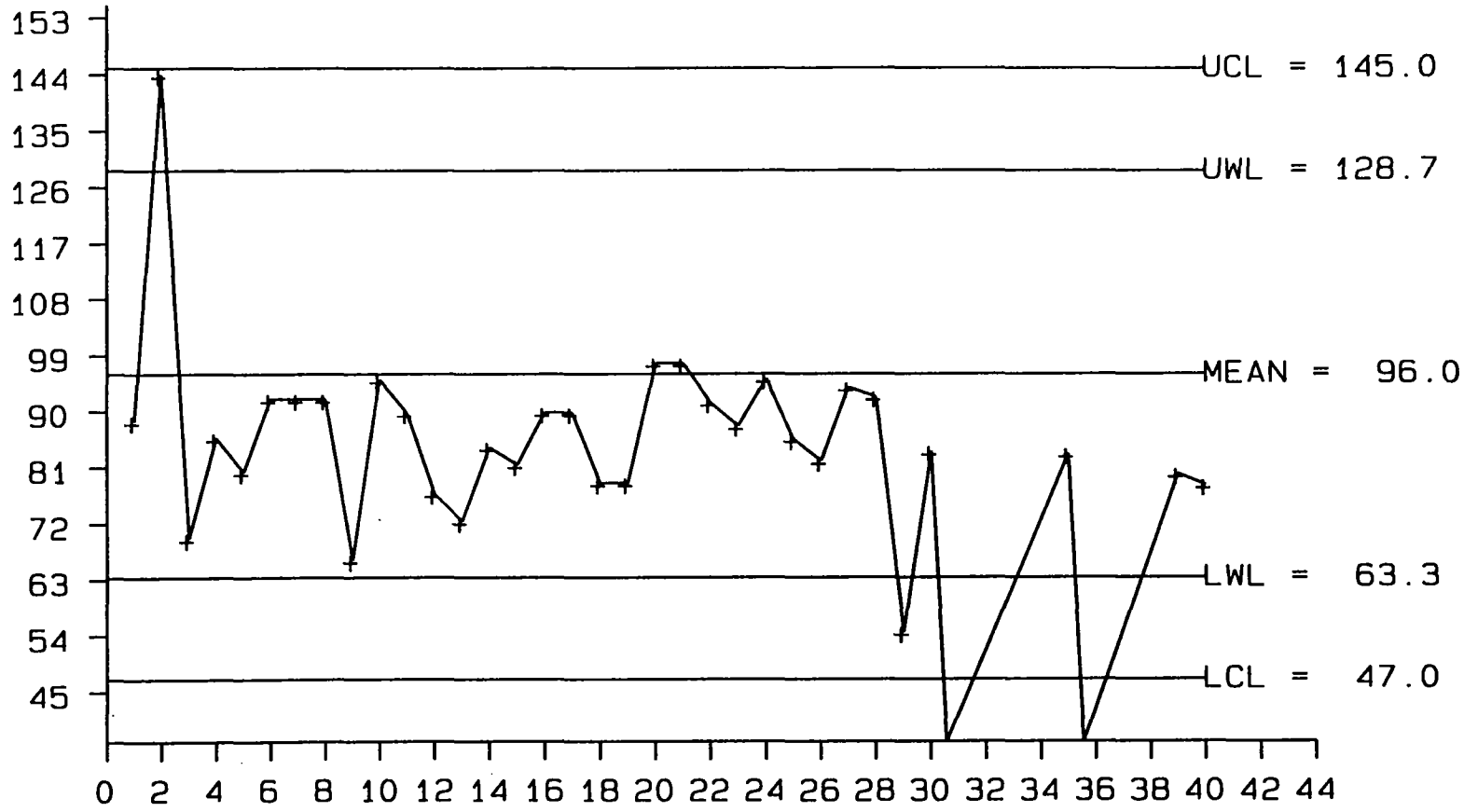
Data Points for: 8270_L 4-Nitrophenol
Chart Type: LCS RECOVERY
Generated on: 8-NOV-1996 09:51

Current Control Limits
(10.0 - 132.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB816-97	29-JUL-1996 0	93.5
2	AB846-8	29-JUL-1996 0	44.4
3	AB846-25	31-JUL-1996 0	45.4
4	AB846-32	2-AUG-1996 0	72.5
5	AB846-47	5-AUG-1996 0	56.1
6	0809827001	10-AUG-1996 0	92.1
7		10-AUG-1996 0	92.1
8	AB846-91	10-AUG-1996 0	92.1
9	AB847-40	15-AUG-1996 0	38.8
10	AB847-52	19-AUG-1996 0	98.5
11	AB847-66	20-AUG-1996 0	93.5
12	AB848-15	27-AUG-1996 0	87.7
13	AB848-71	31-AUG-1996 0	51.2
14	AB848-92	6-SEP-1996 0	121
15	AB848-97	6-SEP-1996 0	58.9
16	0909827001	12-SEP-1996 0	104
17	AB878-31	12-SEP-1996 0	104
18	AB878-97	18-SEP-1996 0	118
19	0917827001	18-SEP-1996 0	118
20	0919827002	20-SEP-1996 0	131
21	AB879-17	20-SEP-1996 0	131
22	AB879-34	23-SEP-1996 0	123
23	AB879-37	24-SEP-1996 0	90.5
24	AB879-52	25-SEP-1996 0	116
25	AB879-61	26-SEP-1996 0	104
26	AB879-69	26-SEP-1996 0	80.3
27	AB902-9	3-OCT-1996 0	85.4
28	AB902-41	9-OCT-1996 0	46.1
29	AB903-34	23-OCT-1996 0	44.4
30	AB903-56	23-OCT-1996 0	36.7
31	AB903-51	24-OCT-1996 0	0.0
32	AB903-52	25-OCT-1996 0	0.0
33	AB903-56H	25-OCT-1996 0	0.0
34	AB903-81	28-OCT-1996 0	0.0
35	AB925-1	29-OCT-1996 0	94.1
36	AB903-66	29-OCT-1996 0	0.0
37	AB903-90	29-OCT-1996 0	0.0
38	AB903-89	29-OCT-1996 0	0.0
39	AB925-18A9	31-OCT-1996 0	50.9
40	AB925-18	31-OCT-1996 0	42.3

8270_L Acenaphthene (LCS RECOVERY)

Produced by GKHORTON on 8-NOV-1996 09: 48: 13.22



Inchcape Testing Services
Environmental Laboratories

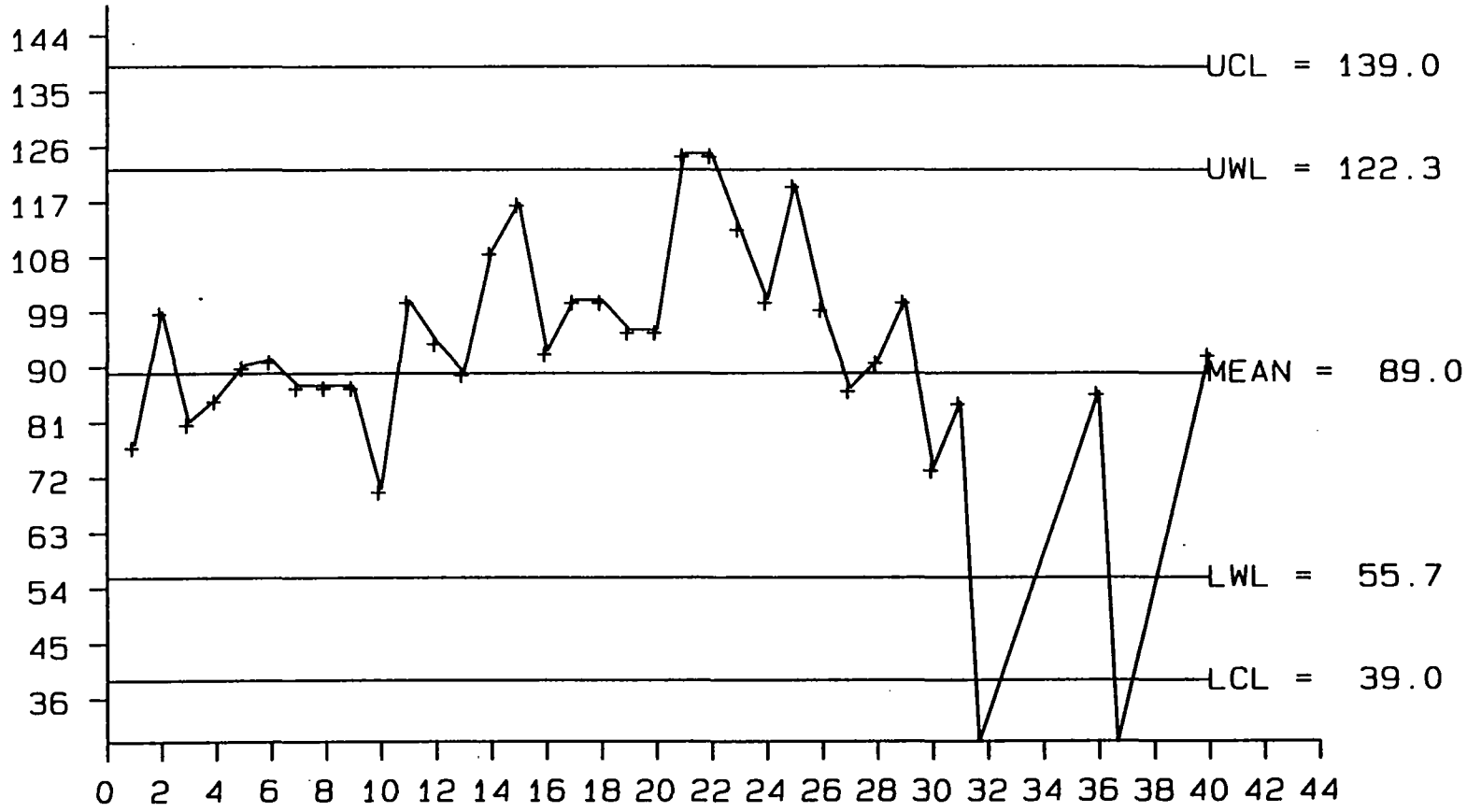
Data Points for: 8270_L Acenaphthene
Chart Type: LCS RECOVERY
Generated on: 8-NOV-1996 09:48

Current Control Limits
(47.0 - 145.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB816-97	29-JUL-1996 0	88.5
2	AB846-8	29-JUL-1996 0	144
3	AB846-25	31-JUL-1996 0	69.7
4	AB846-32	2-AUG-1996 0	85.7
5	AB846-47	5-AUG-1996 0	80.3
6	0809827001	10-AUG-1996 0	92.0
7		10-AUG-1996 0	92.0
8	AB846-91	10-AUG-1996 0	92.0
9	AB847-40	15-AUG-1996 0	66.2
10	AB847-52	19-AUG-1996 0	95.1
11	AB847-66	20-AUG-1996 0	89.7
12	AB848-15	27-AUG-1996 0	76.8
13	AB848-71	31-AUG-1996 0	72.4
14	AB848-92	6-SEP-1996 0	84.2
15	AB848-97	6-SEP-1996 0	81.4
16	0909827001	12-SEP-1996 0	89.8
17	AB878-31	12-SEP-1996 0	89.8
18	AB878-97	18-SEP-1996 0	78.5
19	0917827001	18-SEP-1996 0	78.5
20	0919827002	20-SEP-1996 0	97.7
21	AB879-17	20-SEP-1996 0	97.7
22	AB879-34	23-SEP-1996 0	91.4
23	AB879-37	24-SEP-1996 0	87.6
24	AB879-52	25-SEP-1996 0	95.2
25	AB879-61	26-SEP-1996 0	85.5
26	AB879-69	26-SEP-1996 0	82.0
27	AB902-9	3-OCT-1996 0	93.8
28	AB902-41	9-OCT-1996 0	92.3
29	AB903-34	23-OCT-1996 0	54.6
30	AB903-56	23-OCT-1996 0	83.5
31	AB903-51	24-OCT-1996 0	0.0
32	AB903-52	25-OCT-1996 0	0.0
33	AB903-56H	25-OCT-1996 0	0.0
34	AB903-81	28-OCT-1996 0	0.0
35	AB925-1	29-OCT-1996 0	83.1
36	AB903-66	29-OCT-1996 0	0.0
37	AB903-90	29-OCT-1996 0	0.0
38	AB903-89	29-OCT-1996 0	0.0
39	AB925-18A9	31-OCT-1996 0	79.9
40	AB925-18	31-OCT-1996 0	78.1

8270_L 2, 4-Dinitrotoluene (LCS RECOVERY)

Produced by GKHORTON on 8-NOV-1996 09: 54: 47.29



Inchcape Testing Services
Environmental Laboratories

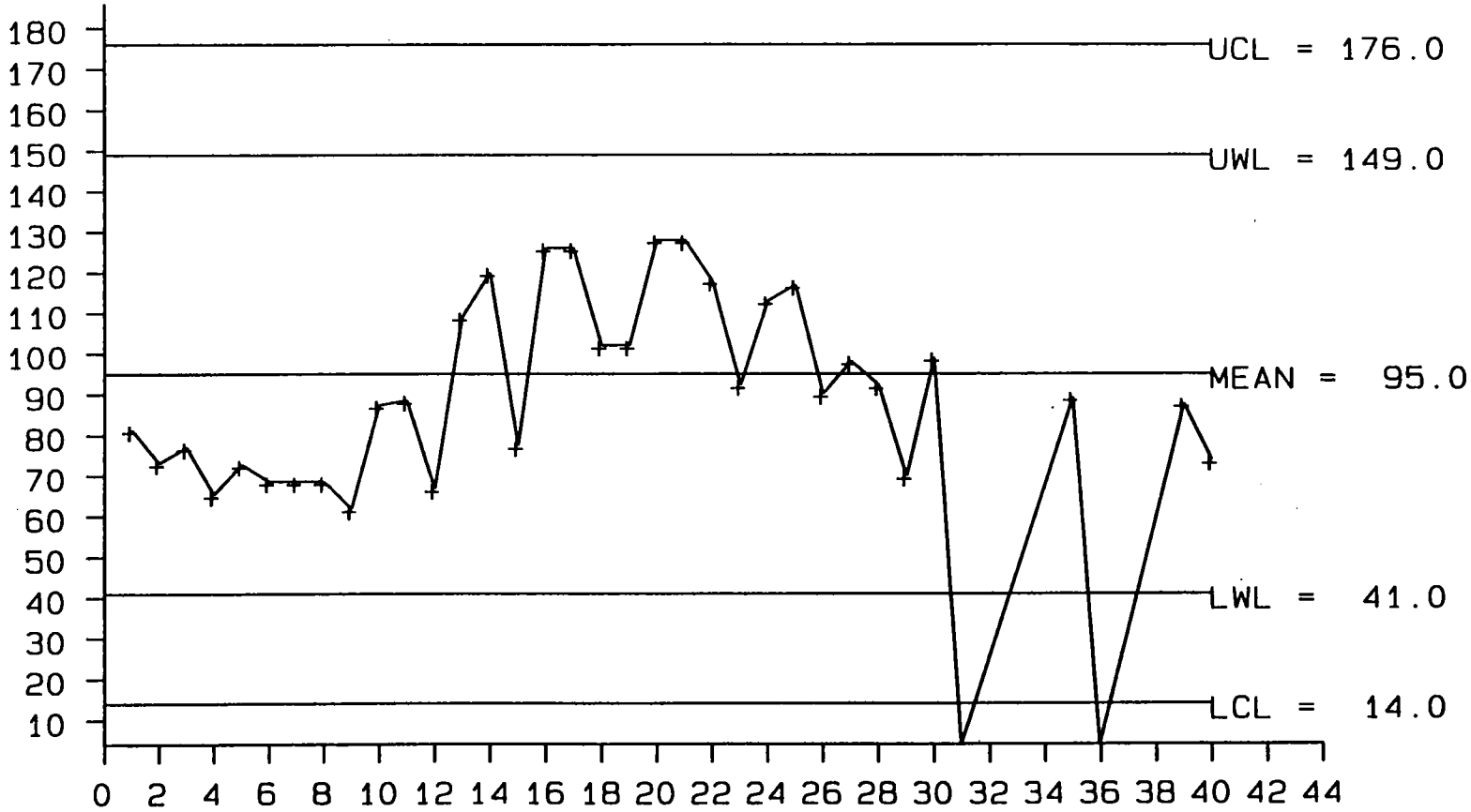
Data Points for: 8270_L 2,4-Dinitrotoluene
Chart Type: LCS RECOVERY
Generated on: 8-NOV-1996 09:54

Current Control Limits
(39.0 - 139.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB816-81	25-JUL-1996 0	77.4
2	AB816-97	29-JUL-1996 0	99.2
3	AB846-8	29-JUL-1996 0	81.1
4	AB846-25	31-JUL-1996 0	84.9
5	AB846-32	2-AUG-1996 0	90.3
6	AB846-47	5-AUG-1996 0	91.3
7	0809827001	10-AUG-1996 0	87.0
8		10-AUG-1996 0	87.0
9	AB846-91	10-AUG-1996 0	87.0
10	AB847-40	15-AUG-1996 0	70.1
11	AB847-52	19-AUG-1996 0	101
12	AB847-66	20-AUG-1996 0	94.3
13	AB848-15	27-AUG-1996 0	89.2
14	AB848-71	31-AUG-1996 0	109
15	AB848-92	6-SEP-1996 0	117
16	AB848-97	6-SEP-1996 0	92.6
17	0909827001	12-SEP-1996 0	101
18	AB878-31	12-SEP-1996 0	101
19	AB878-97	18-SEP-1996 0	96.1
20	0917827001	18-SEP-1996 0	96.1
21	AB879-17	20-SEP-1996 0	125
22	0919827002	20-SEP-1996 0	125
23	AB879-34	23-SEP-1996 0	113
24	AB879-37	24-SEP-1996 0	101
25	AB879-52	25-SEP-1996 0	120
26	AB879-61	26-SEP-1996 0	99.8
27	AB879-69	26-SEP-1996 0	86.5
28	AB902-9	3-OCT-1996 0	91.1
29	AB902-41	9-OCT-1996 0	101
30	AB903-34	23-OCT-1996 0	73.6
31	AB903-56	23-OCT-1996 0	84.4
32	AB903-51	24-OCT-1996 0	0.0
33	AB903-52	25-OCT-1996 0	0.0
34	AB903-56H	25-OCT-1996 0	0.0
35	AB903-81	28-OCT-1996 0	0.0
36	AB925-1	29-OCT-1996 0	86.0
37	AB903-66	29-OCT-1996 0	0.0
38	AB903-90	29-OCT-1996 0	0.0
39	AB903-89	29-OCT-1996 0	0.0
40	AB925-18A9	31-OCT-1996 0	92.3

8270_L Pentachlorophenol (LCS RECOVERY)

Produced by GKHORTON on 8-NOV-1996 09:57:08.73



Inchcape Testing Services
Environmental Laboratories

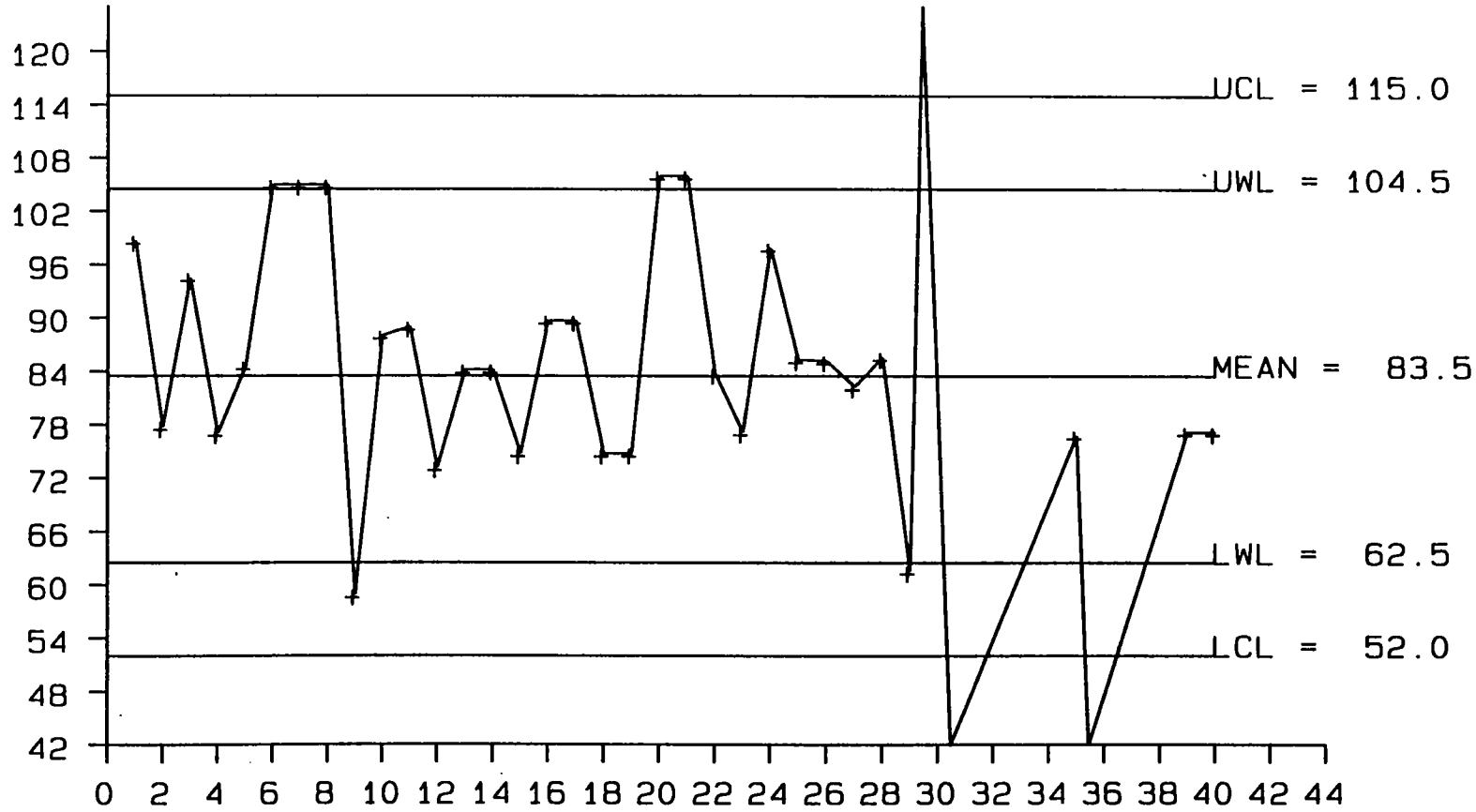
Data Points for: 8270_L Pentachlorophenol
Chart Type: LCS RECOVERY
Generated on: 8-NOV-1996 09:57

Current Control Limits
(14.0 - 176.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB816-97	29-JUL-1996 0	81.4
2	AB846-8	29-JUL-1996 0	73.2
3	AB846-25	31-JUL-1996 0	77.1
4	AB846-32	2-AUG-1996 0	65.4
5	AB846-47	5-AUG-1996 0	72.8
6	0809827001	10-AUG-1996 0	68.6
7		10-AUG-1996 0	68.6
8	AB846-91	10-AUG-1996 0	68.6
9	AB847-40	15-AUG-1996 0	61.8
10	AB847-52	19-AUG-1996 0	87.3
11	AB847-66	20-AUG-1996 0	88.5
12	AB848-15	27-AUG-1996 0	66.8
13	AB848-71	31-AUG-1996 0	109
14	AB848-92	6-SEP-1996 0	120
15	AB848-97	6-SEP-1996 0	77.4
16	0909827001	12-SEP-1996 0	126
17	AB878-31	12-SEP-1996 0	126
18	AB878-97	18-SEP-1996 0	102
19	0917827001	18-SEP-1996 0	102
20	0919827002	20-SEP-1996 0	128
21	AB879-17	20-SEP-1996 0	128
22	AB879-34	23-SEP-1996 0	118
23	AB879-37	24-SEP-1996 0	92.3
24	AB879-52	25-SEP-1996 0	113
25	AB879-61	26-SEP-1996 0	117
26	AB879-69	26-SEP-1996 0	90.1
27	AB902-9	3-OCT-1996 0	98.1
28	AB902-41	9-OCT-1996 0	92.2
29	AB903-34	23-OCT-1996 0	70.0
30	AB903-56	23-OCT-1996 0	99.0
31	AB903-51	24-OCT-1996 0	0.0
32	AB903-52	25-OCT-1996 0	0.0
33	AB903-56H	25-OCT-1996 0	0.0
34	AB903-81	28-OCT-1996 0	0.0
35	AB925-1	29-OCT-1996 0	89.2
36	AB903-66	29-OCT-1996 0	0.0
37	AB903-90	29-OCT-1996 0	0.0
38	AB903-89	29-OCT-1996 0	0.0
39	AB925-18A9	31-OCT-1996 0	87.7
40	AB925-18	31-OCT-1996 0	73.8

8270_L Pyrene (LCS RECOVERY)

Produced by GKHORTON on 8-NOV-1996 09: 59: 38.17



Inchcape Testing Services
Environmental Laboratories

Data Points for: 8270_L Pyrene
Chart Type: LCS RECOVERY
Generated on: 8-NOV-1996 09:59

Current Control Limits
(52.0 - 115.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB816-97	29-JUL-1996 0	98.7
2	AB846-8	29-JUL-1996 0	77.8
3	AB846-25	31-JUL-1996 0	94.5
4	AB846-32	2-AUG-1996 0	77.1
5	AB846-47	5-AUG-1996 0	84.6
6	0809827001	10-AUG-1996 0	105
7		10-AUG-1996 0	105
8	AB846-91	10-AUG-1996 0	105
9	AB847-40	15-AUG-1996 0	58.9
10	AB847-52	19-AUG-1996 0	88.0
11	AB847-66	20-AUG-1996 0	89.0
12	AB848-15	27-AUG-1996 0	73.2
13	AB848-71	31-AUG-1996 0	84.2
14	AB848-92	6-SEP-1996 0	84.2
15	AB848-97	6-SEP-1996 0	74.8
16	0909827001	12-SEP-1996 0	89.7
17	AB878-31	12-SEP-1996 0	89.7
18	AB878-97	18-SEP-1996 0	74.8
19	0917827001	18-SEP-1996 0	74.8
20	0919827002	20-SEP-1996 0	106
21	AB879-17	20-SEP-1996 0	106
22	AB879-34	23-SEP-1996 0	83.8
23	AB879-37	24-SEP-1996 0	77.2
24	AB879-52	25-SEP-1996 0	97.9
25	AB879-61	26-SEP-1996 0	85.3
26	AB879-69	26-SEP-1996 0	85.2
27	AB902-9	3-OCT-1996 0	82.3
28	AB902-41	9-OCT-1996 0	85.6
29	AB903-34	23-OCT-1996 0	61.6
30	AB903-56	23-OCT-1996 0	210
31	AB903-51	24-OCT-1996 0	0.0
32	AB903-52	25-OCT-1996 0	0.0
33	AB903-56H	25-OCT-1996 0	0.0
34	AB903-81	28-OCT-1996 0	0.0
35	AB925-1	29-OCT-1996 0	76.8
36	AB903-66	29-OCT-1996 0	0.0
37	AB903-90	29-OCT-1996 0	0.0
38	AB903-89	29-OCT-1996 0	0.0
39	AB925-18A9	31-OCT-1996 0	77.2
40	AB925-18	31-OCT-1996 0	77.2

PESTICIDES DATA

QUALITY CONTROL SUMMARY

FORM 2
WATER 8080 SURROGATE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

	AT Kearney SAMPLE NO.	S1 (TCX) #	S2 (DCB) #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	BLK	88	87							0
02	BLKBS	91	96							0
03	BLKBSD	98	84							0
04	RFIMW2	80	41*							1
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
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25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (TCX)	= Tetrachloro-m-xylene	(60-150)	
S2 (DCB)	= Decachlorobiphenyl	(60-150)	(advisory)

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

FORM 3
WATER 8080 BLANK SPIKE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

Matrix Spike - Client Sample ID: BLK

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC. LIMITS REC.
Gamma-BHC (Lindane)	2.50	0.000	2.30	92	32-127
Heptachlor	2.50	0.000	2.58	103	34-111
Aldrin	2.50	0.000	2.60	104	42-122
Dieldrin	2.50	0.000	2.47	99	36-146
Endrin	2.50	0.000	2.37	95	30-147
4,4'-DDT	2.50	0.000	2.45	98	25-160

COMPOUND	SPIKE ADDED (ug/L)	BSD CONCENTRATION (ug/L)	BSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gamma-BHC (Lindane)	2.50	2.52	101	9	23	32-127
Heptachlor	2.50	2.68	107	4	20	34-111
Aldrin	2.50	2.57	103	1	21	42-122
Dieldrin	2.50	2.85	114	14	38	36-146
Endrin	2.50	2.58	103	8	37	30-147
4,4'-DDT	2.50	2.72	109	11	36	25-160

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

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

FORM III 8080

FORM 4
8080 METHOD BLANK SUMMARY

AT Kearney SAMPLE NO.

BLK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

Lab File ID: PEST100196-I121 Lab Sample ID: BLK

Instrument ID: CH22 Date Extracted: 09/30/96

Matrix: (soil/water) WATER Date Analyzed: 10/01/96

Level:(low/med) LOW Time Analyzed: 1427

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

	AT Kearney SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	BLKBS	BLKBS	100196-i131.d	10/01/96
02	BLKBSD	BLKBSD	100196-i141.d	10/01/96
03	RFIMW2	10809-3	100196-i181.d	10/01/96
04				
05				
06				
07				
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COMMENTS:

8D
8080 ANALYTICAL SEQUENCE

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 09/07/96

Instrument ID: CH22

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.98 DCB: 26.15

	AT KEARNEY SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	IKINCALL1	IKINCALL1	09/03/96	1728		
02	IKINCALL2	IKINCALL2	09/03/96	1758		
03	IKINCALL3	IKINCALL3	09/03/96	1828		
04	IKINCALL4	IKINCALL4	09/03/96	1857		
05	IKINCALL5	IKINCALL5	09/03/96	1927		
06	PESTCALL1	PESTCALL1	09/06/96	1328	4.99	26.14
07	PESTCALL2	PESTCALL2	09/06/96	1359	4.99	26.19
08	PESTCALL3	PESTCALL3	09/06/96	1431	4.97	26.16
09	PESTCALL4	PESTCALL4	09/06/96	1502	4.99	26.16
10	PESTCALL5	PESTCALL5	09/06/96	1534	4.98	26.15
11	PESTCALL6	PESTCALL6	09/06/96	1605	4.98	26.15
12	TOXCALL1	TOXCALL1	09/06/96	1708		
13	TOXCALL2	TOXCALL2	09/06/96	1740		
14	TOXCALL3	TOXCALL3	09/06/96	1811		
15	TOXCALL4	TOXCALL4	09/06/96	1843		
16	TOXCALL5	TOXCALL5	09/06/96	1914		
17	PCHLRL1	PCHLRL1	09/06/96	2017		
18	PCHLRL2	PCHLRL2	09/06/96	2049		
19	PCHLRL3	PCHLRL3	09/06/96	2120		
20	PCHLRL4	PCHLRL4	09/06/96	2152		
21	PCHLRL5	PCHLRL5	09/06/96	2223		
22	PCHLRL6	PCHLRL6	09/06/96	2255		
23	1660-L1	1660-L1	09/07/96	2358		
24	1660-L2	1660-L2	09/07/96	0029		
25	1660-L3	1660-L3	09/07/96	0101		
26	1660-L4	1660-L4	09/07/96	0132		
27	1660-L5	1660-L5	09/07/96	0204		
28	PESTCAL-1	PESTCAL-1	10/01/96	1046	4.98	26.13
29	TOXCAL-1	TOXCAL-1	10/01/96	1118		
30	1660-1	1660-1	10/01/96	1150		
31	PCHLR-1	PCHLR-1	10/01/96	1221		
32	ISO-KEP-1	ISO-KEP-1	10/01/96	1252		

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.10 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII 8080

8D
OTHER ANALYTICAL SEQUENCE

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 09/06/96

Instrument ID: CH22

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01	BLK	BLK	10/01/96	1427	4.98	26.12
02	BLKBS	BLKBS	10/01/96	1458	4.97	26.11
03	BLKBSD	BLKBSD	10/01/96	1530	4.97	26.14
04	RFIMW2	10809-3	10/01/96	1736	4.97	26.12
05	PESTCAL-2	PESTCAL-2	10/01/96	1839	4.98	26.11
06						
07						
08						
09						
10						
11						
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QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII OTHER

8D
8080 ANALYTICAL SEQUENCE

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

GC Column: DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 09/06/96

Instrument ID: CH24

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.54 DCB: 22.54

	AT KEARNEY SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PESTCALL1	PESTCALL1	09/06/96	1328	4.54	22.58
02	PESTCALL2	PESTCALL2	09/06/96	1359	4.55	22.58
03	PESTCALL3	PESTCALL3	09/06/96	1431	4.54	22.59
04	PESTCALL4	PESTCALL4	09/06/96	1502	4.56	22.59
05	PESTCALL5	PESTCALL5	09/06/96	1534	4.55	22.59
06	PESTCALL6	PESTCALL6	09/06/96	1605	4.54	22.59
07	PESTCAL-1	PESTCAL-1	10/01/96	1046	4.54	22.56
08	BLK	BLK	10/01/96	1427	4.55	22.55
09	BLKBS	BLKBS	10/01/96	1458	4.54	22.55
10	BLKBSD	BLKBSD	10/01/96	1530	4.54	22.56
11	RFIMW2	10809-3	10/01/96	1736	4.54	22.54
12	PESTCAL-2	PESTCAL-2	10/01/96	1839	4.54	22.54
13						
14						
15						
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20						
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22						
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24						
25						
26						
27						
28						
29						
30						
31						
32						

	QC LIMITS
TCX = Tetrachloro-m-xylene	(+/- 0.10 MINUTES)
DCB = Decachlorobiphenyl	(+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII 8080

SAMPLE DATA

FORM 1
8080 ORGANICS ANALYSIS DATA SHEET

AT Kearney SAMPLE NO.

RFIMW2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

Matrix: (soil/water) WATER Lab Sample ID: 10809-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: PEST100196-I181

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/30/96

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/01/96

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	Alpha-BHC	0.500	U
319-85-7	Beta-BHC	0.500	U
319-86-8	Delta-BHC	0.500	U
58-89-9	Gamma-BHC (Lindane)	0.500	U
76-44-8	Heptachlor	0.500	U
309-00-2	Aldrin	0.500	U
1024-57-3	Heptachlor epoxide	1.00	U
959-98-8	Endosulfan I	1.00	U
60-57-1	Dieldrin	0.500	U
72-55-9	4,4'-DDE	0.500	U
72-20-8	Endrin	1.00	U
33213-65-9	Endosulfan II	0.500	U
72-54-8	4,4'-DDD	1.00	U
1031-07-8	Endosulfan sulfate	1.00	U
50-29-3	4,4'-DDT	1.00	U
72-43-5	Methoxychlor	0.500	U
7421-36-3	Endrin aldehyde	2.00	U
8001-35-2	Toxaphene	10.00	U
12674-11-2	Aroclor 1016	5.00	U
11104-28-2	Aroclor 1221	5.00	U
1114-16-5	Aroclor 1232	5.00	U
53469-21-9	Aroclor 1242	5.00	U
12672-29-6	Aroclor 1248	5.00	U
11097-69-1	Aroclor 1254	5.00	U
11096-82-5	Aroclor 1260	5.00	U
12789-03-6	Chlordane	1.00	U
----------	Isodrin	0.500	U
----------	Kepone	10.00	U

FORM I 8080

Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST100196.b\PEST100196-i181.d
Lab Smp Id: 10809-3 Client Smp ID: RFIMW2
Inj Date : 01-OCT-96 17:36:00
Operator : MAK Inst ID: ch22.i
Smp Info : 10809-3 1000/10 8080 AB879-93 30SEP96
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST100196.b\22pest0903.m
Meth Date : 27-Oct-96 13:38:49 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.21 Sample Matrix: WATER
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene				CAS #: 877-09-8		
4.968	4.977 (0.804)	86324	0.0996	1.99		100.00
* 2 HEXACHLOROBENZENE				CAS #:		
6.178	6.191 (1.000)	47282	1.00			100.00
4 Aroclor 1221				CAS #: 11104-28-2		
7.171	7.271 (1.000)	132				100.00(a)
7 Aroclor 1232				CAS #: 1114-16-5		
7.978	7.902 (1.000)	354				100.00(a)
8 Heptachlor				CAS #: 76-44-8		
8.532	8.541 (1.381)	512	0.000566	0.0113		100.00(a)

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
13 Aroclor 1016					CAS #: 12674-11-2		
7.575	7.530	(1.226)	117	0.00347	0.0694		100.00(a)
0.000	8.976	(0.000)	0			0.00- 0.00	0.00
0.000	9.388	(0.000)	0			0.00- 0.00	0.00
0.000	10.510	(0.000)	0			0.00- 0.00	0.00
Average of Peak Concentrations =					0.0694		
21 Aroclor 1260					CAS #: 11096-82-5		
0.000	15.235	(0.000)	0				0.00(a)
15.488	15.572	(2.507)	902	0.0242	0.484	0.00- 0.00	0.00
17.350	17.381	(2.808)	231	0.00628	0.126	0.00- 0.00	0.00
0.000	17.505	(0.000)	0			0.00- 0.00	0.00
Average of Peak Concentrations =					0.304		
30 Methoxychlor					CAS #: 72-43-5		
20.485	20.511	(3.316)	279	0.00116	0.0232		100.00(a)
$ 32 Decachlorobiphenyl					CAS #: 2051-24-3		
26.119	26.150	(4.228)	26261	0.0514	1.03		100.00(R)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /chem/ch22.i/PEST100196.b/PEST100196-i181.d

Date : 01-OCT-96 17:36:00

Client ID: RFINW2

Sample Info: 10809-3 1000/10 8080 AB879-93 30SEP96

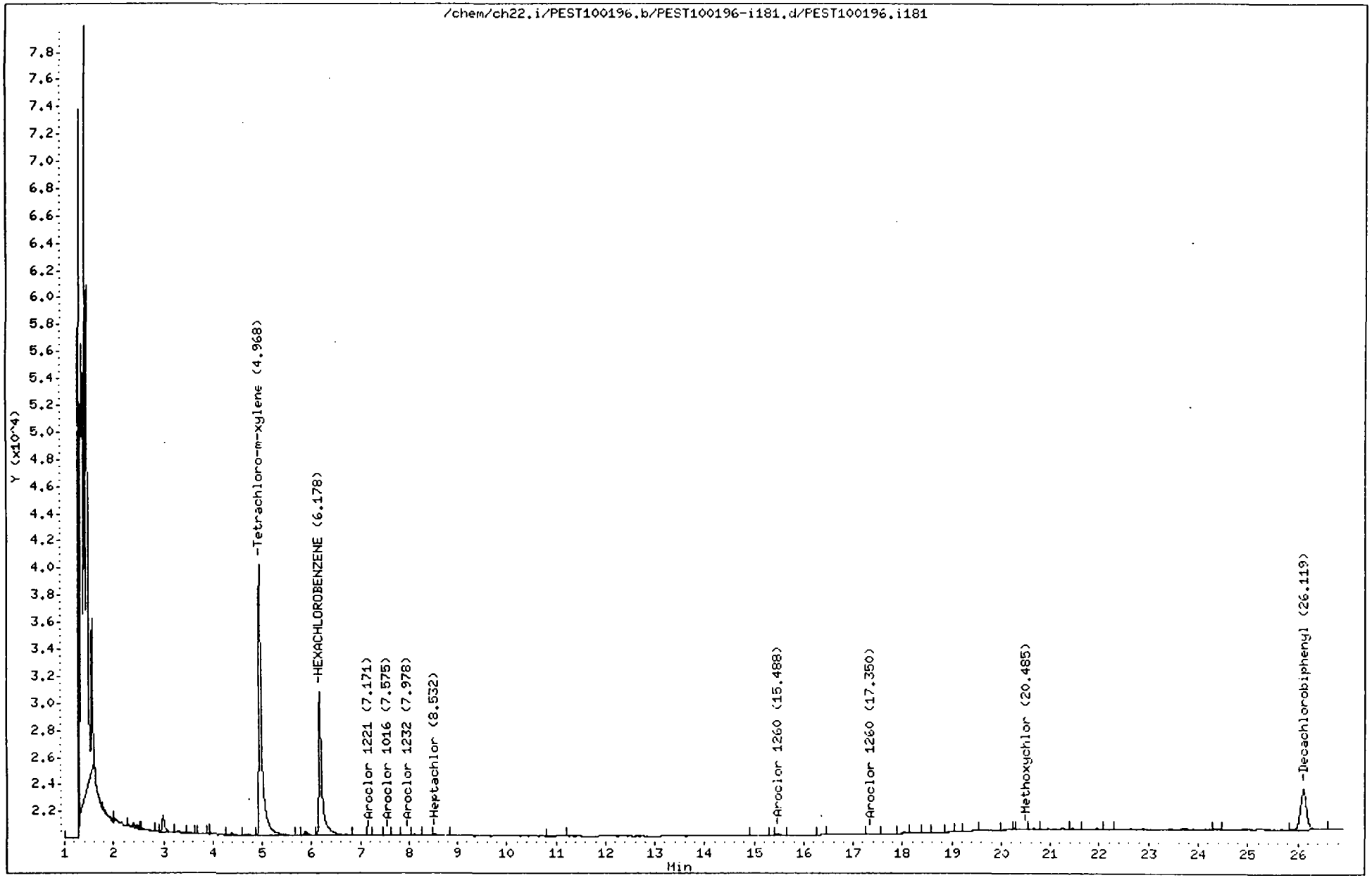
Volume Injected (uL): 0.5

Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch24.i\PEST100196.b\PEST100196-i181.d
Lab Smp Id: 10809-3 Client Smp ID: RFIMW2
Inj Date : 01-OCT-96 17:36:00
Operator : MAKOWALSKI Inst ID: ch24.i
Smp Info : 10809-3 1000/10 8080 AB879-93 30SEP96
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch24.i\PEST100196.b\24pest0906.m
Meth Date : 27-Oct-96 13:52:03 Quant Type: ISTD
Cal Date : 06-SEP-96 16:05:00 Cal File: PEST090696-i071.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
9 Beta-BHC	8.951	8.969	(1.644)	4224	0.00112	0.0224(a)
11 Delta-BHC	9.798	9.776	(1.800)	5959	0.000721	0.0144(a)
$ 1 Tetrachloro-m-xylene	4.535	4.535	(0.833)	911606	0.0951	1.90
* 2 HEXACHLOROBENZENE	5.444	5.449	(1.000)	535475	1.00	
$ 29 Decachlorobiphenyl	22.544	22.539	(4.141)	249053	0.0505	1.01(R)
27 Endosulfan sulf./Methoxychlor	18.305	18.305	(3.362)	1972	0.000590	0.0118(a)

QC Flag Legend

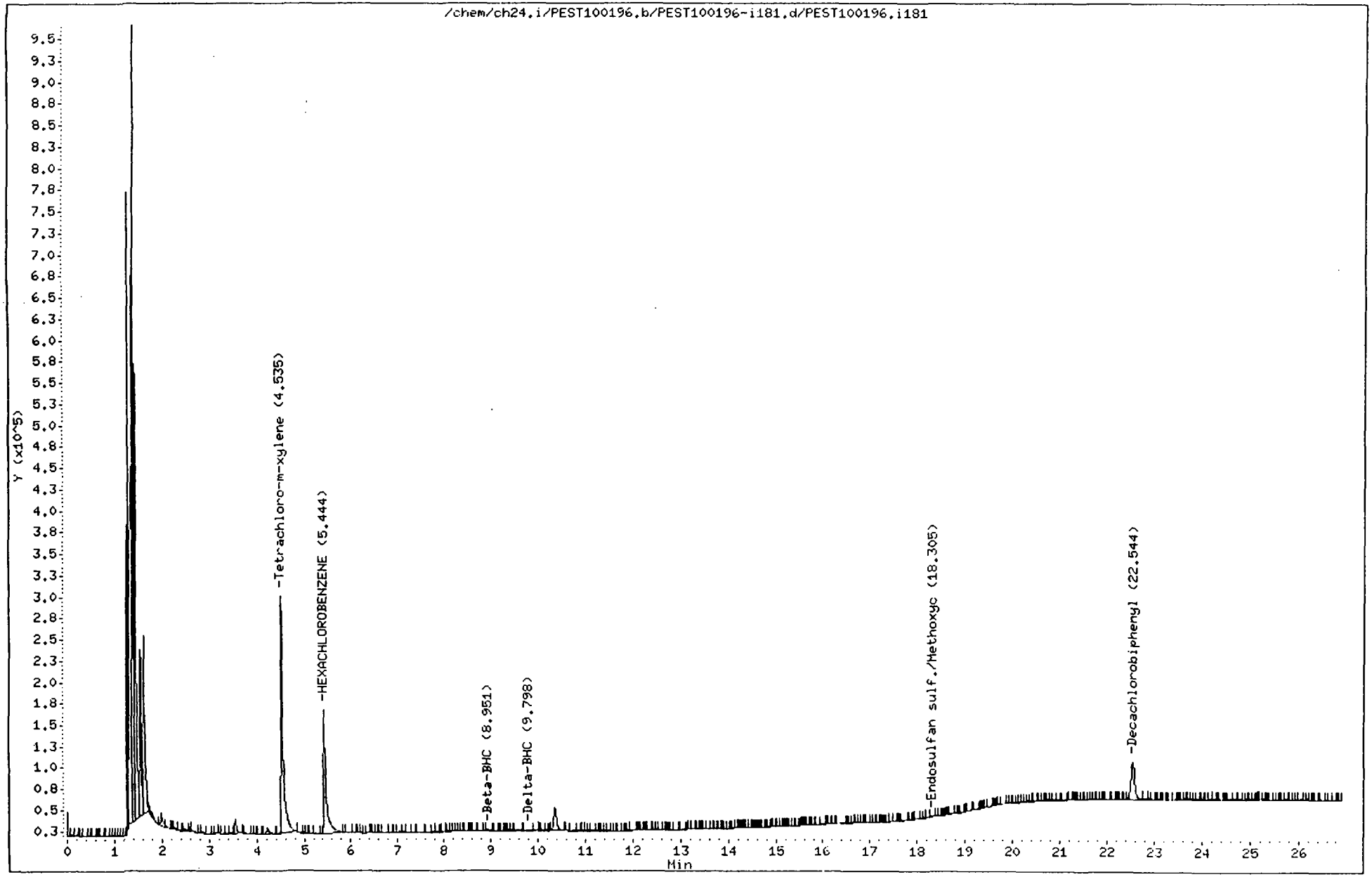
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /chem/ch24.i/PEST100196.b/PEST100196-i181.d
Date : 01-OCT-96 17:36:00
Client ID: RFINW2
Sample Info: 10809-3 1000/10 8080 AE879-93 30SEP96
Volume Injected (uL): 0.5
Column phase: DB-1701

Page

Instrument: ch24.i

Operator: MAKOWALSKI
Column diameter: 0.53



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STANDARDS DATA

FORM 6
8080 INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date(s): 09/07/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1307 0204

LAB FILE ID: RF1: PEST090696-I2RF2: PEST090696-I2RF3: PEST090696-I2
RF4: PEST090696-I2RF5: PEST090696-I2

COMPOUND	RF1	RF2	RF3	RF4	RF5
Alpha-BHC	29.185	29.778	26.915	25.802	25.577
Beta-BHC	9.440	12.529	11.819	10.981	10.862
Delta-BHC	15.804	18.413	19.069	16.950	
Gamma-BHC (Lindane)	20.147	20.876	18.993	17.751	17.960
Heptachlor	22.016	23.124	21.356	19.994	19.173
Aldrin	19.526	22.381	21.316	19.948	19.845
Heptachlor epoxide	16.827	19.289	18.759	18.015	17.964
Endosulfan I	14.295	16.095	15.050	14.832	16.093
Dieldrin	16.013	17.224	18.101	16.508	17.630
4,4'-DDE	15.158	16.871	16.096	15.213	15.372
Endrin	13.079	13.851	13.666	13.224	13.188
Endosulfan II	11.193	12.196	11.466	11.367	11.364
4,4'-DDD	10.270	11.236	11.388	11.084	11.191
Endosulfan sulfate	10.421	10.774	10.959	10.553	10.102
4,4'-DDT	12.953	13.004	12.682	11.690	11.979
Methoxychlor	6.892	5.594	5.483	5.190	5.292
Endrin ketone	12.928	13.482	11.676	10.862	11.525
Endrin aldehyde	8.510	9.010	8.948	7.771	
Toxaphene					
Aroclor 1016	0.819	0.713	0.700	0.648	0.739
(2)	0.361	0.345	0.402	0.431	0.430
(3)	0.783	0.577	0.588	0.577	0.569
(4)	0.442	0.443	0.454	0.430	0.461
Aroclor 1260	0.779	0.754	0.753	0.730	0.744
(2)	0.831	0.764	0.780	0.803	0.787
(3)	0.714	0.788	0.837	0.788	0.764
(4)	0.478	0.507	0.499	0.505	0.493
Chlordane	0.612	0.675	0.757	0.706	0.649
(2)	1.260	1.317	1.372	1.176	
(3)	2.871	2.523	2.542	2.391	2.199
(4)	0.410	0.359	0.481	0.420	0.405
(5)	1.753	1.210	1.436	1.256	1.202
Isodrin	19.047	18.954	16.221	15.300	15.306
Kepone	12.537	3.211	2.621	2.758	2.811
Tetrachloro-m-xylene	20.499	21.086	19.366	18.142	18.248
Decachlorobiphenyl	14.119	11.980	11.192	10.632	10.849

FORM VI 8080

FORM 6
8080 INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date(s): 09/07/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1307 0204

RF6: PEST090696-I2

COMPOUND	RF6	CURVE	COEFFICENTS A0	A1	%RSD OR R^2
Alpha-BHC		LINR	0.00000000	25.7989313	0.999
Beta-BHC	11.242	LINR	0.00000000	11.1408391	0.999
Delta-BHC	15.507	LINR	0.00000000	15.9590723	0.993
Gamma-BHC (Lindane)		LINR	0.00000000	17.9942408	0.999
Heptachlor	18.717	LINR	0.00000000	19.1156080	0.997
Aldrin		LINR	0.00000000	20.0253329	0.999
Heptachlor epoxide	17.319	LINR	0.00000000	17.6256173	0.999
Endosulfan I	15.760	LINR	0.00000000	15.6751906	0.998
Dieldrin		LINR	0.00000000	17.2724933	0.997
4,4'-DDE	14.294	LINR	0.00000000	14.7470687	0.996
Endrin	13.228	LINR	0.00000000	13.2359428	1.000
Endosulfan II	10.984	LINR	0.00000000	11.1472421	0.999
4,4'-DDD	10.855	LINR	0.00000000	10.9855401	0.999
Endosulfan sulfate		LINR	0.00000000	10.3408589	0.998
4,4'-DDT	11.223	LINR	0.00000000	11.5221055	0.997
Methoxychlor	4.937	LINR	0.00000000	5.07694300	0.997
Endrin ketone	10.594	LINR	0.00000000	10.8929186	0.996
Endrin aldehyde	7.447	LINR	0.00000000	7.58431741	0.996
Toxaphene		LINR			
Aroclor 1016		LINR	0.00000000	0.71332369	0.993
(2)		LINR	0.00000000	0.42481449	0.997
(3)		LINR	0.00000000	0.57303847	1.000
(4)		LINR	0.00000000	0.45309386	0.998
Aroclor 1260		LINR	0.00000000	0.74233624	1.000
(2)		LINR	0.00000000	0.78909317	1.000
(3)		LINR	0.00000000	0.77755466	0.998
(4)		LINR	0.00000000	0.49647477	1.000
Chlordane	0.682	LINR	0.00000000	0.68091670	0.998
(2)	1.106	LINR	0.00000000	1.12465936	0.996
(3)	2.257	LINR	0.00000000	2.27002685	0.998
(4)	0.443	LINR	0.00000000	0.43517803	0.997
(5)	1.211	LINR	0.00000000	1.22097490	0.998
Isodrin		LINR	0.00000000	15.4058194	0.998
Kepone		LINR	0.00000000	2.77962206	0.991
Tetrachloro-m-xylene		LINR	0.00000000	18.3260183	0.999
Decachlorobiphenyl		LINR	0.00000000	10.8095101	0.999

FORM VI 8080

FORM 6
8080 INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date(s): 09/07/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1307 0204

LAB FILE ID: RT1: PEST090696-I2RT2: PEST090696-I2RT3: PEST090696-I2
RT4: PEST090696-I2RT5: PEST090696-I2

COMPOUND	RT1	RT2	RT3	RT4	RT5
Alpha-BHC	6.595	6.599	6.582	6.599	6.590
Beta-BHC	7.752	7.770	7.743	7.761	7.752
Delta-BHC	8.794	8.807	8.785	8.803	
Gamma-BHC (Lindane)	7.619	7.632	7.610	7.628	7.615
Heptachlor	8.541	8.554	8.528	8.546	8.541
Aldrin	9.530	9.543	9.525	9.543	9.530
Heptachlor epoxide	11.498	11.511	11.489	11.503	11.498
Endosulfan I	12.997	13.010	12.974	12.992	12.992
Dieldrin	14.251	14.265	14.242	14.260	14.251
4,4'-DDE	13.852	13.866	13.835	13.866	13.839
Endrin	15.767	15.776	15.754	15.763	15.754
Endosulfan II	16.477	16.499	16.477	16.495	16.477
4,4'-DDD	16.153	16.180	16.153	16.171	16.149
Endosulfan sulfate	18.321	18.334	18.308	18.325	18.308
4,4'-DDT	17.430	17.439	17.417	17.430	17.426
Methoxychlor	20.511	20.533	20.502	20.524	20.507
Endrin ketone	20.959	20.981	20.963	20.977	20.963
Endrin aldehyde	17.833	17.838	17.829	17.847	
Toxaphene	16.754	16.754	16.754	16.754	16.754
Aroclor 1016	7.517	7.530	7.521	7.530	7.517
(2)	8.962	8.976	8.962	8.976	8.962
(3)	9.357	9.379	9.370	9.388	9.379
(4)	10.492	10.510	10.492	10.510	10.496
Aroclor 1260	15.218	15.231	15.218	15.235	15.222
(2)	15.555	15.555	15.546	15.572	15.559
(3)	17.346	17.368	17.359	17.381	17.363
(4)	17.492	17.496	17.488	17.505	17.483
Chlordane	8.098	8.093	8.102	8.089	8.098
(2)	8.546	8.523	8.541	8.523	
(3)	12.168	12.150	12.172	12.154	12.168
(4)	12.496	12.496	12.509	12.491	12.505
(5)	12.837	12.819	12.837	12.815	12.828
Isodrin	11.019	11.064	11.064	11.064	11.064
Kepone	15.949	15.998	15.980	15.994	15.980
Tetrachloro-m-xylene	4.986	4.990	4.968	4.986	4.981
Decachlorobiphenyl	26.141	26.186	26.164	26.159	26.150

FORM VI 8080

FORM 6
8080 INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date(s): 09/07/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1307 0204

RT6: PEST090696-I2

COMPOUND	RT6	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Alpha-BHC		6.593	6.490	6.690
Beta-BHC	7.752	7.755	7.652	7.852
Delta-BHC	8.794	8.797	8.694	8.894
Gamma-BHC (Lindane)		7.621	7.519	7.719
Heptachlor	8.541	8.542	8.441	8.641
Aldrin		9.534	9.434	9.634
Heptachlor epoxide	11.498	11.499	11.398	11.598
Endosulfan I	12.979	12.991	12.879	13.079
Dieldrin		14.254	14.147	14.347
4,4'-DDE	13.852	13.852	13.752	13.952
Endrin	15.754	15.761	15.654	15.854
Endosulfan II	16.481	16.484	16.381	16.581
4,4'-DDD	16.153	16.160	16.053	16.253
Endosulfan sulfate		18.319	18.208	18.408
4,4'-DDT	17.426	17.428	17.326	17.526
Methoxychlor	20.511	20.515	20.411	20.611
Endrin ketone	20.977	20.970	20.877	21.077
Endrin aldehyde	17.833	17.836	17.733	17.933
Toxaphene		16.754	16.654	16.854
Aroclor 1016	7.521	7.523	7.430	7.630
(2)	8.962	8.967	8.876	9.076
(3)	9.370	9.374	9.288	9.488
(4)	10.492	10.499	10.410	10.610
Aroclor 1260	15.218	15.224	15.135	15.335
(2)	15.546	15.556	15.472	15.672
(3)	17.359	17.363	17.281	17.481
(4)	17.488	17.492	17.405	17.605
Chlordane	8.093	8.095	7.993	8.193
(2)	8.528	8.532	8.428	8.628
(3)	12.163	12.163	12.063	12.263
(4)	12.500	12.500	12.400	12.600
(5)	12.828	12.827	12.728	12.928
Isodrin		11.055	10.964	11.164
Kepone		15.983	15.880	16.080
Tetrachloro-m-xylene		4.982	4.877	5.077
Decachlorobiphenyl		26.160	26.050	26.250

FORM VI 8080

FORM 6
OTHER INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date(s): 09/06/96

Column: DB-608 ID: 2.00 (mm) Calibration Time(s): 1608 1914

LAB FILE ID: RF0.1: PEST090696-RF0.375: PEST09069RF0.75: PEST090696
RF1.25: PEST090696RF2.5: PEST090696-

COMPOUND	RF0.1	RF0.375	RF0.75	RF1.25	RF2.5
Toxaphene	5.771	5.962	6.165	7.110	6.989

FORM VI OTHER

FORM 6
OTHER INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date(s): 09/06/96

Column: DB-608 ID: 2.00 (mm) Calibration Time(s): 1608 1914

COMPOUND	CURVE	COEFFICENTS A0	A1	%RSD OR R^2
Toxaphene	LINR	0.00000000	6.93843801	0.997

FORM VI OTHER

FORM 6
OTHER INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date(s): 09/06/96

Column: DB-608 ID: 2.00 (mm) Calibration Time(s): 1608 1914

LAB FILE ID: RT1: PEST090696-I0RT2: PEST090696-I1RT3: PEST090696-I1
RT4: PEST090696-I1RT5: PEST090696-I1

COMPOUND	RT1	RT2	RT3	RT4	RT5
Toxaphene	18.000	18.000	18.000	18.000	18.000

FORM VI OTHER

FORM 6
OTHER INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date(s): 09/06/96

Column: DB-608 ID: 2.00 (mm) Calibration Time(s): 1608 1914

COMPOUND	MEAN RT	RT WINDOW FROM	TO
Toxaphene	18.000	14.500	21.500

FORM VI OTHER

FORM 6
8080 INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH24 Calibration Date(s): 09/06/96 09/06/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 1328 1605

LAB FILE ID: RF0.0025: PEST0906RF0.0125: PEST0906RF0.05: PEST090696
RF0.1: PEST090696-RF0.125: PEST09069

COMPOUND	RF0.0025	RF0.0125	RF0.05	RF0.1	RF0.125
Alpha-BHC	19.291	22.899	23.134	24.128	24.073
Beta-BHC	8.310	6.506	7.425		7.608
Delta-BHC	18.294	14.419	15.181	15.775	
Gamma-BHC (Lindane)	16.610	19.500	20.756	20.800	20.850
Heptachlor	19.100	20.338	20.271	20.480	20.731
Aldrin	18.472	18.064	18.177	18.173	18.490
Heptachlor epoxide	12.739	13.983	14.293	15.993	16.497
Endosulfan I	12.382	13.362	13.730	13.803	14.297
Dieldrin	16.520	14.670	13.327	14.123	14.067
4,4'-DDE	14.106	12.763	13.851	14.266	13.419
Endrin	11.140	11.089	13.163	11.974	11.753
Endosulfan II	10.906	9.753	9.655	10.078	9.263
4,4'-DDD	9.489	9.244	9.339	9.543	9.267
Endosulfan sulf./Methoxychlo	4.538	4.083	5.938	6.572	6.095
4,4'-DDT	9.798	9.976	10.162	10.744	10.372
Endrin ketone	10.969	14.120	9.643	10.030	9.362
Endrin aldehyde	1.566	4.196	4.657		5.988
Tetrachloro-m-xylene	23.314	18.734	17.633	17.301	17.418
Decachlorobiphenyl	14.793	9.411	9.071	8.962	8.969

FORM 6
8080 INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH24 Calibration Date(s): 09/06/96 09/06/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 1328 1605

RF0.2: PEST090696-

COMPOUND	RF0.2	CURVE	COEFFICENTS A0	A1	%RSD OR R^2
Alpha-BHC	25.544	LINR	0.00000000	24.9052029	0.998
Beta-BHC	6.819	LINR	0.00000000	7.05615618	0.994
Delta-BHC	15.358	LINR	0.00000000	15.4266345	1.000
Gamma-BHC (Lindane)	21.852	LINR	0.00000000	21.4225906	0.999
Heptachlor	21.749	LINR	0.00000000	21.2726687	0.998
Aldrin	19.247	LINR	0.00000000	18.8742459	0.999
Heptachlor epoxide	16.732	LINR	0.00000000	16.4737445	0.998
Endosulfan I	14.866	LINR	0.00000000	14.5349603	0.998
Dieldrin	14.718	LINR	0.00000000	14.4312234	0.998
4,4'-DDE	14.294	LINR	0.00000000	14.0696445	0.998
Endrin	12.552	LINR	0.00000000	12.3032614	0.998
Endosulfan II		LINR	0.00000000	9.58878007	0.996
4,4'-DDD		LINR	0.00000000	9.37111258	1.000
Endosulfan sulf./Methoxychlo		LINR	0.00000000	6.23851778	0.995
4,4'-DDT	10.794	LINR	0.00000000	10.6650558	0.999
Endrin ketone	10.059	LINR	0.00000000	9.88943593	0.997
Endrin aldehyde	6.263	LINR	0.00000000	6.11460593	0.994
Tetrachloro-m-xylene	18.254	LINR	0.00000000	17.9019845	0.999
Decachlorobiphenyl	9.361	LINR	0.00000000	9.20260874	0.999

FORM 6
8080 INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH24 Calibration Date(s): 09/06/96 09/06/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 1328 1605

LAB FILE ID: RT1: PEST090696-I0RT2: PEST090696-I0RT3: PEST090696-I0
RT4: PEST090696-I0RT5: PEST090696-I0

COMPOUND	RT1	RT2	RT3	RT4	RT5
Alpha-BHC	6.366	6.375	6.366	6.384	6.371
Beta-BHC	8.986	9.004	8.991		8.995
Delta-BHC	9.802	9.820	9.802	9.824	
Gamma-BHC (Lindane)	7.311	7.319	7.311	7.333	7.319
Heptachlor	7.931	7.949	7.936	7.958	7.945
Aldrin	8.685	8.698	8.689	8.712	8.698
Heptachlor epoxide	10.600	10.618	10.609	10.622	10.605
Endosulfan I	11.682	11.704	11.691	11.708	11.700
Dieldrin	13.096	13.101	13.092	13.109	13.096
4,4'-DDE	12.365	12.378	12.365	12.387	12.373
Endrin	13.916	13.934	13.907	13.925	13.916
Endosulfan II	15.676	15.685	15.676	15.690	15.681
4,4'-DDD	15.384	15.397	15.379	15.406	15.388
Endosulfan sulf./Methoxychlo	18.345	18.358	18.345	18.363	18.358
4,4'-DDT	16.089	16.106	16.089	16.111	16.093
Endrin ketone	19.684	19.702	19.693	19.697	19.688
Endrin aldehyde	17.148	17.197	17.179		17.184
Tetrachloro-m-xylene	4.540	4.549	4.540	4.557	4.549
Decachlorobiphenyl	22.579	22.583	22.588	22.592	22.592

FORM 6
8080 INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH24 Calibration Date(s): 09/06/96 09/06/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 1328 1605

RT6: PEST090696-I0

COMPOUND	RT6	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Alpha-BHC	6.371	6.372	6.266	6.466
Beta-BHC	8.995	8.994	8.891	9.091
Delta-BHC	9.811	9.812	9.702	9.902
Gamma-BHC (Lindane)	7.319	7.319	7.211	7.411
Heptachlor	7.945	7.944	7.836	8.036
Aldrin	8.694	8.696	8.589	8.789
Heptachlor epoxide	10.618	10.612	10.509	10.709
Endosulfan I	11.700	11.698	11.591	11.791
Dieldrin	13.105	13.100	12.992	13.192
4,4'-DDE	12.373	12.374	12.265	12.465
Endrin	13.925	13.920	13.807	14.007
Endosulfan II		15.682	15.576	15.776
4,4'-DDD		15.391	15.279	15.479
Endosulfan sulf./Methoxychlo		18.354	18.245	18.445
4,4'-DDT	16.097	16.098	15.989	16.189
Endrin ketone	19.697	19.694	19.593	19.793
Endrin aldehyde	17.184	17.178	17.079	17.279
Tetrachloro-m-xylene	4.544	4.546	4.440	4.640
Decachlorobiphenyl	22.592	22.588	22.488	22.688

FORM VI 8080

Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i021.d
Lab Smp Id: PESTCALL1 Client Smp ID: PESTCALL1
Inj Date : 06-SEP-96 13:28:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDES CAL STD 0.005UG/ML AA904-73-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 11:21:06 mtwillet Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Procesing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	3 Alpha-BHC	6.595	6.590	(1.064)	3481	0.00250	0.00283
	6 Beta-BHC	7.752	7.752	(1.250)	1126	0.00250	0.00212
	9 Delta-BHC	8.794	8.794	(1.418)	1885	0.00250	0.00248
	5 Gamma-BHC (Lindane)	7.619	7.619	(1.229)	2403	0.00250	0.00280
	8 Heptachlor	8.541	8.541	(1.378)	2626	0.00250	0.00288
	11 Aldrin	9.530	9.534	(1.537)	2329	0.00250	0.00250
	15 Heptachlor epoxide	11.498	11.498	(1.854)	2007	0.00250	0.00239
	16 Endosulfan I	12.997	12.979	(2.096)	1705	0.00250	0.00228
	20 Dieldrin	14.251	14.247	(2.298)	1910	0.00250	0.00250
	18 4,4'-DDE	13.852	13.852	(2.234)	1808	0.00250	0.00257
	22 Endrin	15.767	15.754	(2.543)	1560	0.00250	0.00247
	25 Endosulfan II	16.477	16.481	(2.657)	1335	0.00250	0.00251
	24 4,4'-DDD	16.153	16.153	(2.605)	1225	0.00250	0.00234
	29 Endosulfan sulfate	18.321	18.308	(2.955)	1243	0.00250	0.00252
	27 4,4'-DDT	17.430	17.426	(2.811)	1545	0.00250	0.00281
	30 Methoxychlor	20.511	20.511	(3.308)	822	0.00250	0.00339
	31 Endrin ketone	20.959	20.977	(3.380)	1542	0.00250	0.00297
	28 Endrin aldehyde	17.833	17.833	(2.876)	1015	0.00250	0.00280
$	1 Tetrachloro-m-xylene	4.986	4.977	(0.804)	2445	0.00250	0.00250
*	2 HEXACHLOROBENZENE	6.200	6.191	(1.000)	47710	1.00	
$	32 Decachlorobiphenyl	26.141	26.150	(4.216)	1684	0.00250	0.00250

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i021.d

Date : 06-SEP-96 13:28:00

Client ID: PESTCALL1

Sample Info: PESTICIDES CAL STD 0.005UG/ML AA904-73-

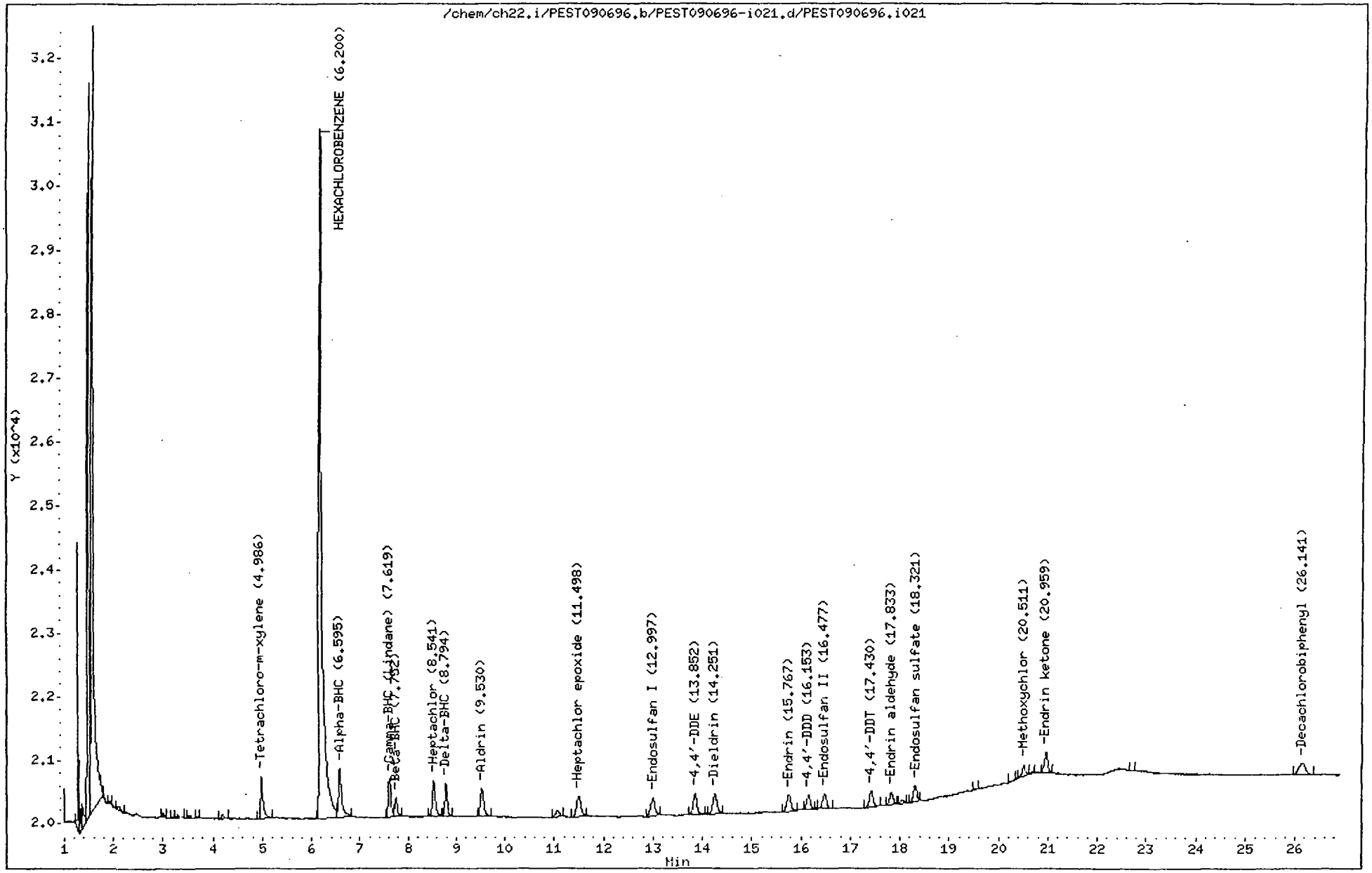
Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53

490



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch24.i\PEST090696.b\PEST090696-i021.d
Lab Smp Id: PESTCALL1 Client Smp ID: PESTCALL1
Inj Date : 06-SEP-96 13:28:00
Operator : MAKOWALSKI Inst ID: ch24.i
Smp Info : PESTICIDES CAL STD 0.005UG/ML AA904-73-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch24.i\PEST090696.b\24pest0906.m
Meth Date : 23-Sep-96 13:39:02 makowalski Quant Type: ISTD
Cal Date : 06-SEP-96 16:05:00 Cal File: PEST090696-i071.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Procesing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	3 Alpha-BHC	6.366	6.366	(1.168)	26853	0.00250	0.00194
	9 Beta-BHC	8.986	8.991	(1.649)	11568	0.00250	0.00294
	11 Delta-BHC	9.802	9.802	(1.799)	25465	0.00250	0.00296
	5 Gamma-BHC (Lindane)	7.311	7.311	(1.342)	23121	0.00250	0.00194
	7 Heptachlor	7.931	7.936	(1.456)	26587	0.00250	0.00224
	8 Aldrin	8.685	8.689	(1.594)	25713	0.00250	0.00245
	13 Heptachlor epoxide	10.600	10.609	(1.945)	17733	0.00250	0.00193
	15 Endosulfan I	11.682	11.691	(2.144)	17236	0.00250	0.00213
	17 Dieldrin	13.096	13.092	(2.404)	22995	0.00250	0.00286
	16 4,4'-DDE	12.365	12.365	(2.269)	19635	0.00250	0.00251
	19 Endrin	13.916	13.907	(2.554)	15507	0.00250	0.00226
	23 Endosulfan II	15.676	15.676	(2.877)	15181	0.00250	0.00284
	21 4,4'-DDD	15.384	15.379	(2.823)	13208	0.00250	0.00253
	24 4,4'-DDT	16.089	16.089	(2.953)	13639	0.00250	0.00230
	28 Endrin ketone	19.684	19.693	(3.613)	15269	0.00250	0.00277
	26 Endrin aldehyde	17.148	17.179	(3.147)	2180	0.00250	0.000656
$	1 Tetrachloro-m-xylene	4.540	4.540	(0.833)	32452	0.00250	0.00326
*	2 HEXACHLOROBENZENE	5.449	5.449	(1.000)	556789	1.00	
$	29 Decachlorobiphenyl	22.579	22.588	(4.144)	20591	0.00250	0.00402
	27 Endosulfan sulf./Methoxychlor	18.345	18.345	(3.367)	12634	0.00500	0.00364

Data File: /chem/ch24.i/PEST090696.b/PEST090696-i021.d

Date : 06-SEP-96 13:28:00

Client ID: PESTCALL1

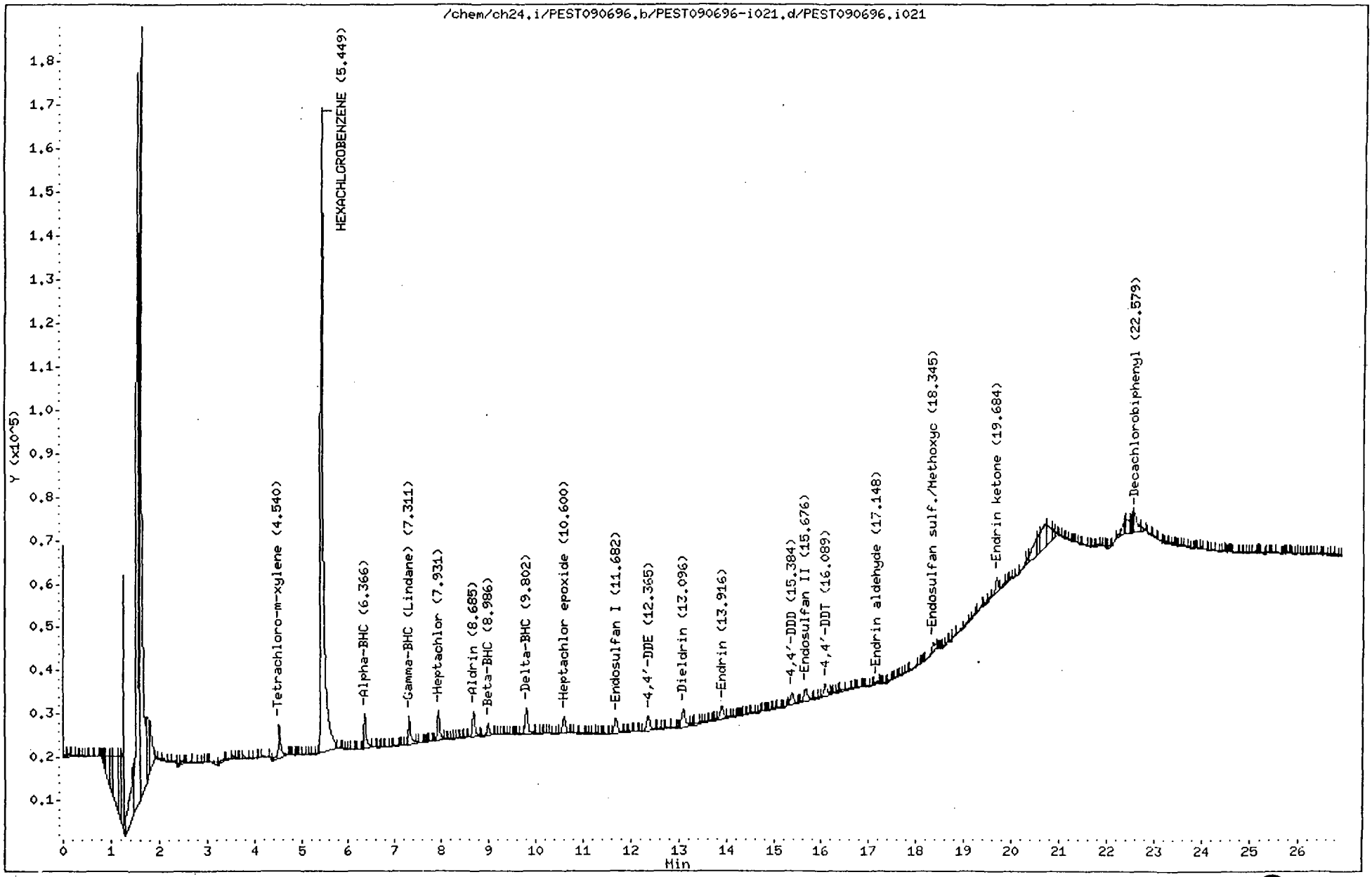
Sample Info: PESTICIDES CAL STD 0.005UG/ML AA904-73-

Column phase: DB-1701

Instrument: ch24.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i031.d
Lab Smp Id: PESTCALL2 Client Smp ID: PESTCALL2
Inj Date : 06-SEP-96 13:59:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDES CAL STD 0.025UG/ML AA904-73-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 11:21:06 mtwillet Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Procesing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 Alpha-BHC	6.599	6.590	(1.063)	18220	0.0125	0.0144
6 Beta-BHC	7.770	7.752	(1.251)	7666	0.0125	0.0140
9 Delta-BHC	8.807	8.794	(1.418)	11266	0.0125	0.0144
5 Gamma-BHC (Lindane)	7.632	7.619	(1.229)	12773	0.0125	0.0145
8 Heptachlor	8.554	8.541	(1.378)	14149	0.0125	0.0151
11 Aldrin	9.543	9.534	(1.537)	13694	0.0125	0.0126
15 Heptachlor epoxide	11.511	11.498	(1.854)	11802	0.0125	0.0137
16 Endosulfan I	13.010	12.979	(2.095)	9848	0.0125	0.0128
20 Dieldrin	14.265	14.247	(2.297)	10539	0.0125	0.0125
18 4,4'-DDE	13.866	13.852	(2.233)	10323	0.0125	0.0143
22 Endrin	15.776	15.754	(2.541)	8475	0.0125	0.0131
25 Endosulfan II	16.499	16.481	(2.657)	7462	0.0125	0.0137
24 4,4'-DDD	16.180	16.153	(2.606)	6875	0.0125	0.0128
29 Endosulfan sulfate	18.334	18.308	(2.953)	6592	0.0125	0.0130
27 4,4'-DDT	17.439	17.426	(2.809)	7957	0.0125	0.0141
30 Methoxychlor	20.533	20.511	(3.307)	3423	0.0125	0.0138
31 Endrin ketone	20.981	20.977	(3.379)	8249	0.0125	0.0155
28 Endrin aldehyde	17.838	17.833	(2.873)	5513	0.0125	0.0148
$ 1 Tetrachloro-m-xylene	4.990	4.977	(0.804)	12902	0.0125	0.0125
* 2 HEXACHLOROBENZENE	6.209	6.191	(1.000)	48949	1.00	
$ 32 Decachlorobiphenyl	26.186	26.150	(4.217)	7330	0.0125	0.0124

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i031.d

Date : 06-SEP-96 13:59:00

Client ID: PESTCALL2

Sample Info: PESTICIDES CAL STD.0.025UG/ML AA904-73-

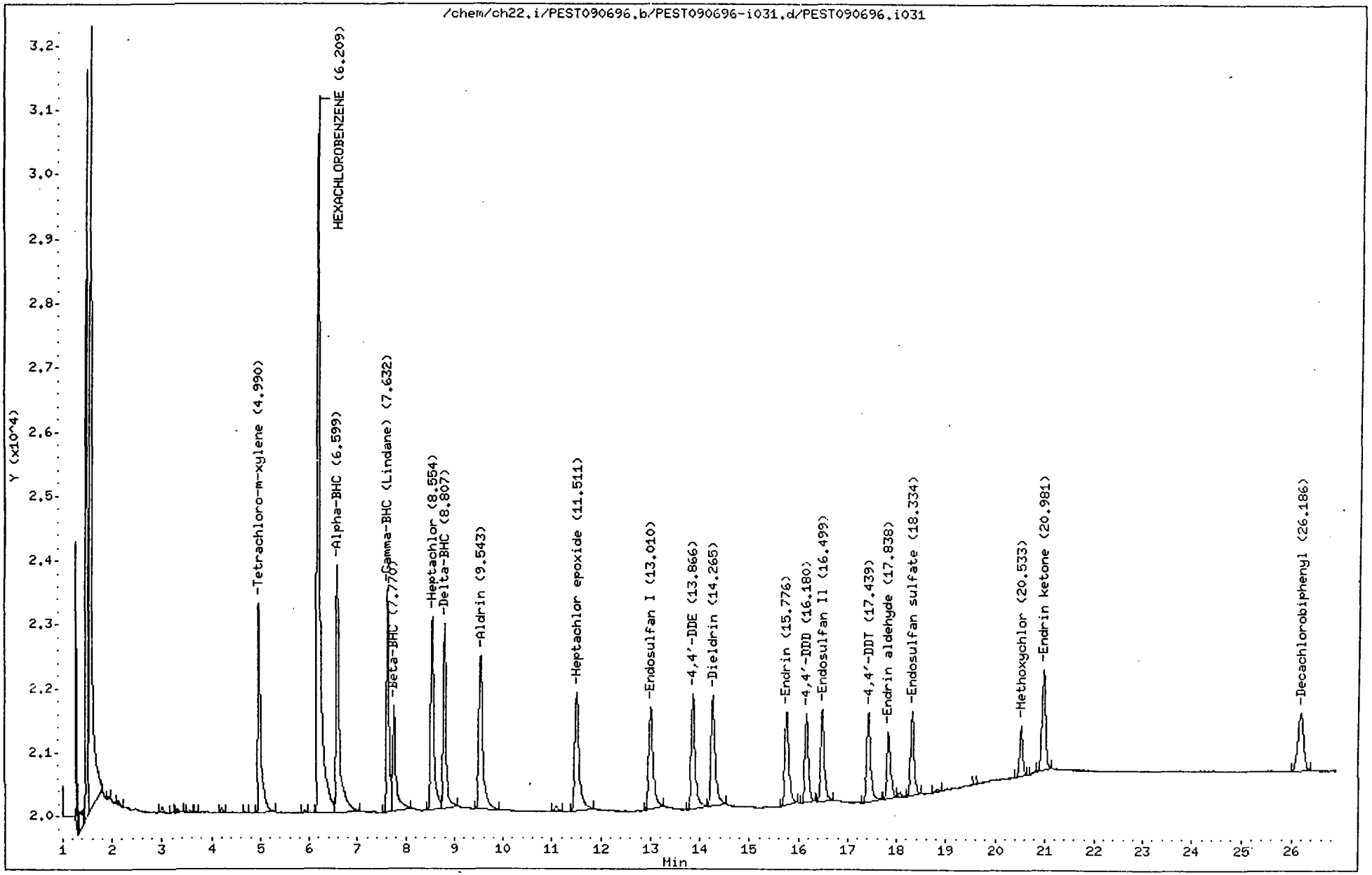
Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53

494



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch24.i\PEST090696.b\PEST090696-i031.d
Lab Smp Id: PESTCALL2 Client Smp ID: PESTCALL2
Inj Date : 06-SEP-96 13:59:00
Operator : MAKOWALSKI Inst ID: ch24.i
Smp Info : PESTICIDES CAL STD 0.025UG/ML AA904-73-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch24.i\PEST090696.b\24pest0906.m
Meth Date : 23-Sep-96 13:39:02 makowalski Quant Type: ISTD
Cal Date : 06-SEP-96 16:05:00 Cal File: PEST090696-i071.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Procesing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	3 Alpha-BHC	6.375	6.366	(1.168)	163426	0.0125	0.0115
	9 Beta-BHC	9.004	8.991	(1.650)	46436	0.0125	0.0115
	11 Delta-BHC	9.820	9.802	(1.799)	102909	0.0125	0.0117
	5 Gamma-BHC (Lindane)	7.319	7.311	(1.341)	139166	0.0125	0.0114
	7 Heptachlor	7.949	7.936	(1.457)	145147	0.0125	0.0120
	8 Aldrin	8.698	8.689	(1.594)	128920	0.0125	0.0120
	13 Heptachlor epoxide	10.618	10.609	(1.946)	99796	0.0125	0.0106
	15 Endosulfan I	11.704	11.691	(2.145)	95363	0.0125	0.0115
	17 Dieldrin	13.101	13.092	(2.400)	104700	0.0125	0.0127
	16 4,4'-DDE	12.378	12.365	(2.268)	91087	0.0125	0.0113
	19 Endrin	13.934	13.907	(2.553)	79141	0.0125	0.0113
	23 Endosulfan II	15.685	15.676	(2.874)	69607	0.0125	0.0127
	21 4,4'-DDD	15.397	15.379	(2.821)	65974	0.0125	0.0123
	24 4,4'-DDT	16.106	16.089	(2.951)	71195	0.0125	0.0117
	28 Endrin ketone	19.702	19.693	(3.610)	100775	0.0125	0.0178
	26 Endrin aldehyde	17.197	17.179	(3.151)	29949	0.0125	0.00879
$	1 Tetrachloro-m-xylene	4.549	4.540	(0.833)	133704	0.0125	0.0131
*	2 HEXACHLOROBENZENE	5.457	5.449	(1.000)	570944	1.00	
$	29 Decachlorobiphenyl	22.583	22.588	(4.138)	67165	0.0125	0.0128
	27 Endosulfan sulf./Methoxychlor	18.358	18.345	(3.364)	58286	0.0250	0.0164

Data File: /chem/ch24.i/PEST090696.b/PEST090696-i031.d

Date : 06-SEP-96 13:59:00

Client ID: PESTCALL2

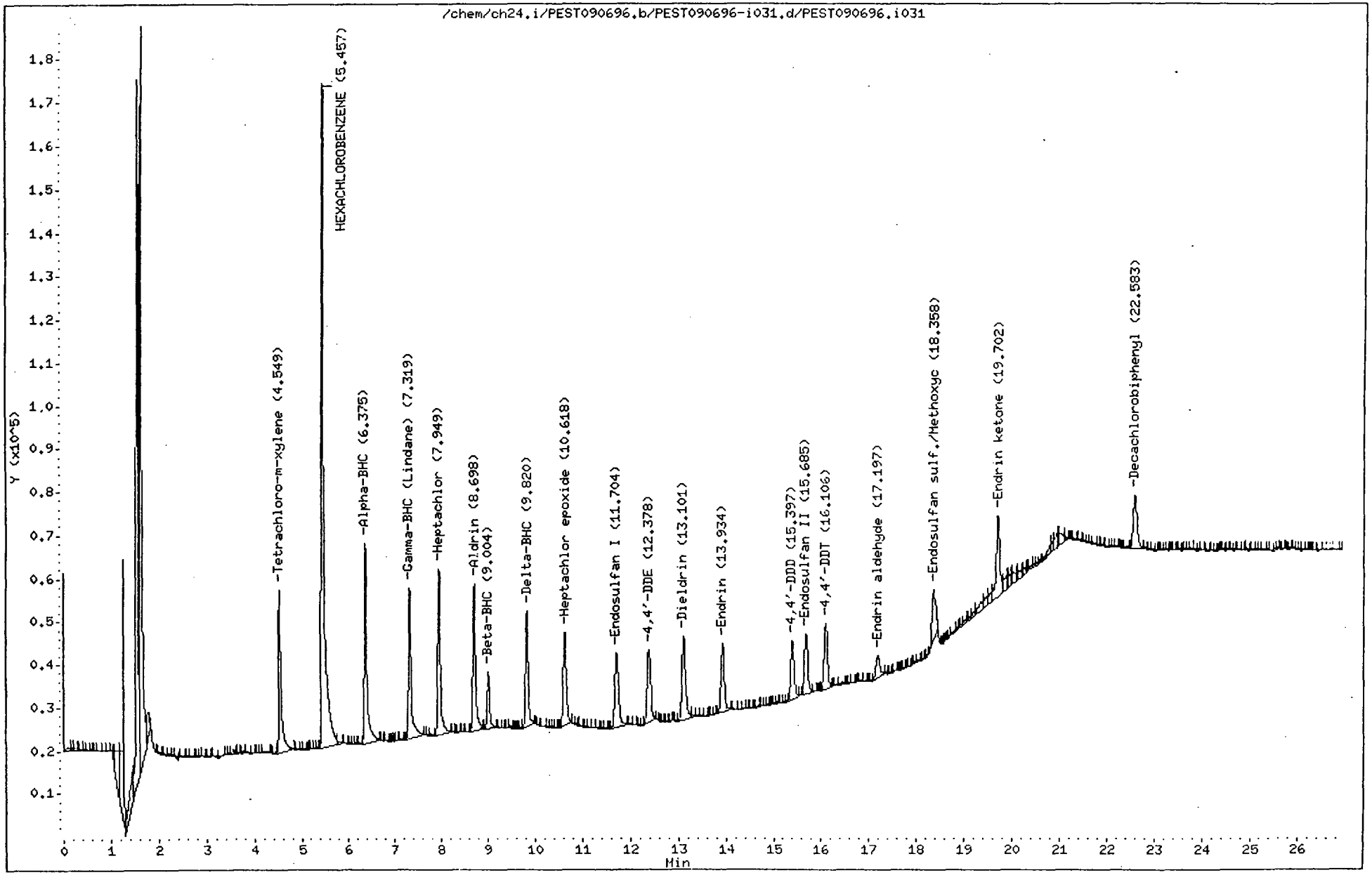
Sample Info: PESTICIDES CAL STD 0.025UG/ML AA904-73-

Column phase: DB-1701

Instrument: ch24.i

Operator: MAKOWALSKI

Column diameter: 0.53



964

Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i041.d
Lab Smp Id: PESTCALL3 Client Smp ID: PESTCALL3
Inj Date : 06-SEP-96 14:31:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDES CAL STD 0.100UG/ML AA904-73-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 11:21:06 mtwillet Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Procesing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 Alpha-BHC	6.582	6.590	(1.063)	64036	0.0500	0.0522
6 Beta-BHC	7.743	7.752	(1.251)	28119	0.0500	0.0530
9 Delta-BHC	8.785	8.794	(1.419)	45369	0.0500	0.0597
5 Gamma-BHC (Lindane)	7.610	7.619	(1.229)	45188	0.0500	0.0528
8 Heptachlor	8.528	8.541	(1.377)	50810	0.0500	0.0559
11 Aldrin	9.525	9.534	(1.538)	50713	0.0500	0.0499
15 Heptachlor epoxide	11.489	11.498	(1.856)	44630	0.0500	0.0532
16 Endosulfan I	12.974	12.979	(2.096)	35807	0.0500	0.0480
20 Dieldrin	14.242	14.247	(2.300)	43065	0.0500	0.0502
18 4,4'-DDE	13.835	13.852	(2.234)	38294	0.0500	0.0546
22 Endrin	15.754	15.754	(2.545)	32514	0.0500	0.0516
25 Endosulfan II	16.477	16.481	(2.661)	27279	0.0500	0.0514
24 4,4'-DDD	16.153	16.153	(2.609)	27094	0.0500	0.0518
29 Endosulfan sulfate	18.308	18.308	(2.957)	26074	0.0500	0.0530
27 4,4'-DDT	17.417	17.426	(2.813)	30172	0.0500	0.0550
30 Methoxychlor	20.502	20.511	(3.311)	13044	0.0500	0.0540
31 Endrin ketone	20.963	20.977	(3.386)	27778	0.0500	0.0536
28 Endrin aldehyde	17.829	17.833	(2.880)	21289	0.0500	0.0590
$ 1 Tetrachloro-m-xylene	4.968	4.977	(0.802)	46076	0.0500	0.0497
* 2 HEXACHLOROBENZENE	6.191	6.191	(1.000)	47583	1.00	
$ 32 Decachlorobiphenyl	26.164	26.150	(4.226)	26628	0.0500	0.0498

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i041.d

Date : 06-SEP-96 14:31:00

Client ID: PESTCALL3

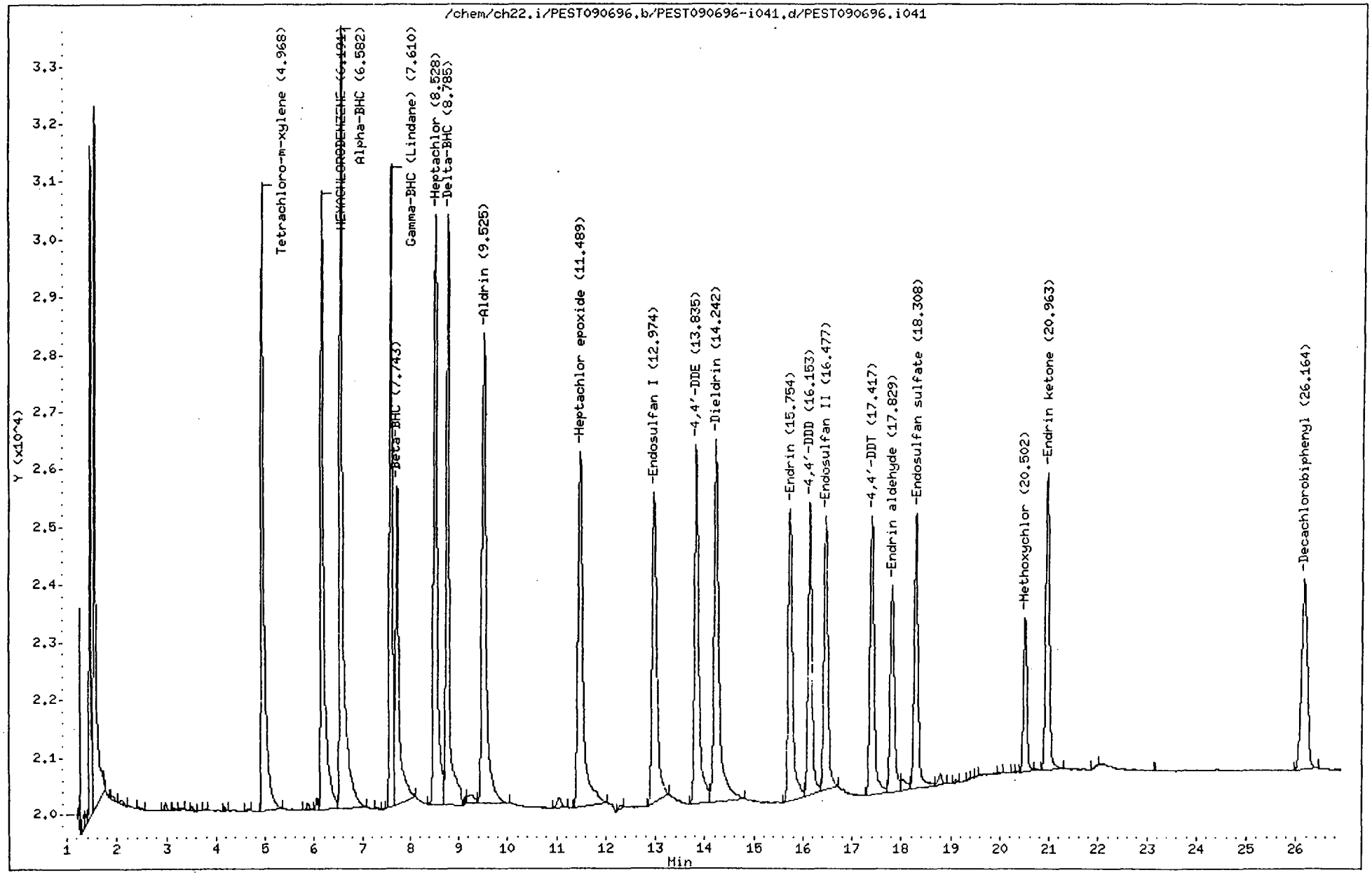
Sample Info: PESTICIDES CAL STD 0.100UG/ML AA904-73-

Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch24.i\PEST090696.b\PEST090696-i041.d
Lab Smp Id: PESTCALL3 Client Smp ID: PESTCALL3
Inj Date : 06-SEP-96 14:31:00
Operator : MAKOWALSKI Inst ID: ch24.i
Smp Info : PESTICIDES CAL STD 0.100UG/ML AA904-73-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch24.i\PEST090696.b\24pest0906.m
Meth Date : 23-Sep-96 13:39:02 makowalski Quant Type: ISTD
Cal Date : 06-SEP-96 16:05:00 Cal File: PEST090696-i071.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Procesing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 Alpha-BHC	6.366	6.366	(1.168)	657836	0.0500	0.0464
9 Beta-BHC	8.991	8.991	(1.650)	211141	0.0500	0.0526
11 Delta-BHC	9.802	9.802	(1.799)	431674	0.0500	0.0492
5 Gamma-BHC (Lindane)	7.311	7.311	(1.342)	590220	0.0500	0.0484
7 Heptachlor	7.936	7.936	(1.456)	576426	0.0500	0.0476
8 Aldrin	8.689	8.689	(1.595)	516887	0.0500	0.0482
13 Heptachlor epoxide	10.609	10.609	(1.947)	406421	0.0500	0.0434
15 Endosulfan I	11.691	11.691	(2.146)	390424	0.0500	0.0472
17 Dieldrin	13.092	13.092	(2.403)	378961	0.0500	0.0462
16 4,4'-DDE	12.365	12.365	(2.269)	393864	0.0500	0.0492
19 Endrin	13.907	13.907	(2.552)	374294	0.0500	0.0535
23 Endosulfan II	15.676	15.676	(2.877)	274555	0.0500	0.0503
21 4,4'-DDD	15.379	15.379	(2.823)	265555	0.0500	0.0498
24 4,4'-DDT	16.089	16.089	(2.953)	288955	0.0500	0.0476
28 Endrin ketone	19.693	19.693	(3.614)	274205	0.0500	0.0488
26 Endrin aldehyde	17.179	17.179	(3.153)	161354	0.0500	0.0472(M)
$ 1 Tetrachloro-m-xylene	4.540	4.540	(0.833)	501408	0.0500	0.0492
* 2 HEXACHLOROBENZENE	5.449	5.449	(1.000)	568714	1.00	
$ 29 Decachlorobiphenyl	22.588	22.588	(4.146)	257951	0.0500	0.0493
27 Endosulfan sulf./Methoxychlor	18.345	18.345	(3.367)	337699	0.100	0.0952

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch24.i/PEST090696.b/PEST090696-i041.d

Date : 06-SEP-96 14:31:00

Client ID: PESTCALL3

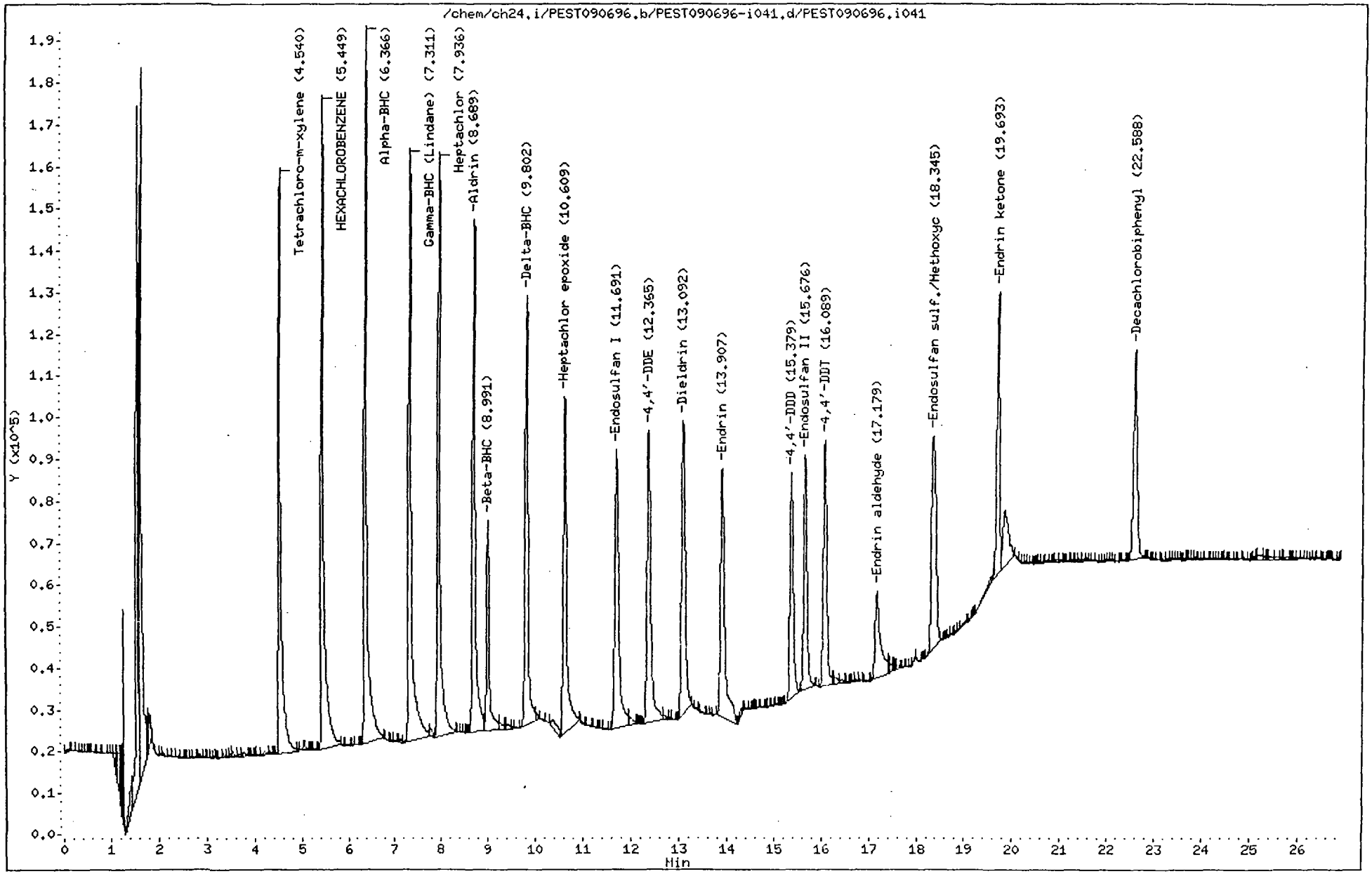
Instrument: ch24.i

Sample Info: PESTICIDES CAL STD 0.100UG/ML AA904-73-

Operator: MAKOWALSKI

Column phase: DB-1701

Column diameter: 0.53



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Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i051.d
Lab Smp Id: PESTCALL4 Client Smp ID: PESTCALL4
Inj Date : 06-SEP-96 15:02:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDES CAL STD 0.200UG/ML AA904-73-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 11:21:06 mtwillet Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Procesing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 Alpha-BHC	6.599	6.590	(1.064)	128829	0.100	0.100
6 Beta-BHC	7.761	7.752	(1.251)	54828	0.100	0.0986
9 Delta-BHC	8.803	8.794	(1.419)	84630	0.100	0.106
5 Gamma-BHC (Lindane)	7.628	7.619	(1.229)	88632	0.100	0.0986
8 Heptachlor	8.546	8.541	(1.377)	99831	0.100	0.104
11 Aldrin	9.543	9.534	(1.538)	99603	0.100	0.0985
15 Heptachlor epoxide	11.503	11.498	(1.854)	89949	0.100	0.102
16 Endosulfan I	12.992	12.979	(2.094)	74055	0.100	0.0946
20 Dieldrin	14.260	14.247	(2.298)	82427	0.100	0.0981
18 4,4'-DDE	13.866	13.852	(2.235)	75958	0.100	0.103
22 Endrin	15.763	15.754	(2.540)	66030	0.100	0.0999
25 Endosulfan II	16.495	16.481	(2.658)	56756	0.100	0.102
24 4,4'-DDD	16.171	16.153	(2.606)	55340	0.100	0.101
29 Endosulfan sulfate	18.325	18.308	(2.953)	52691	0.100	0.102
27 4,4'-DDT	17.430	17.426	(2.809)	58367	0.100	0.101
30 Methoxychlor	20.524	20.511	(3.308)	25912	0.100	0.102
31 Endrin ketone	20.977	20.977	(3.381)	54234	0.100	0.0997
28 Endrin aldehyde	17.847	17.833	(2.876)	38800	0.100	0.102
$ 1 Tetrachloro-m-xylene	4.986	4.977	(0.803)	90585	0.100	0.0985
* 2 HEXACHLOROBENZENE	6.205	6.191	(1.000)	49930	1.00	
$ 32 Decachlorobiphenyl	26.159	26.150	(4.216)	53084	0.100	0.0988

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i051.d

Date : 06-SEP-96 15:02:00

Client ID: PESTCALL4

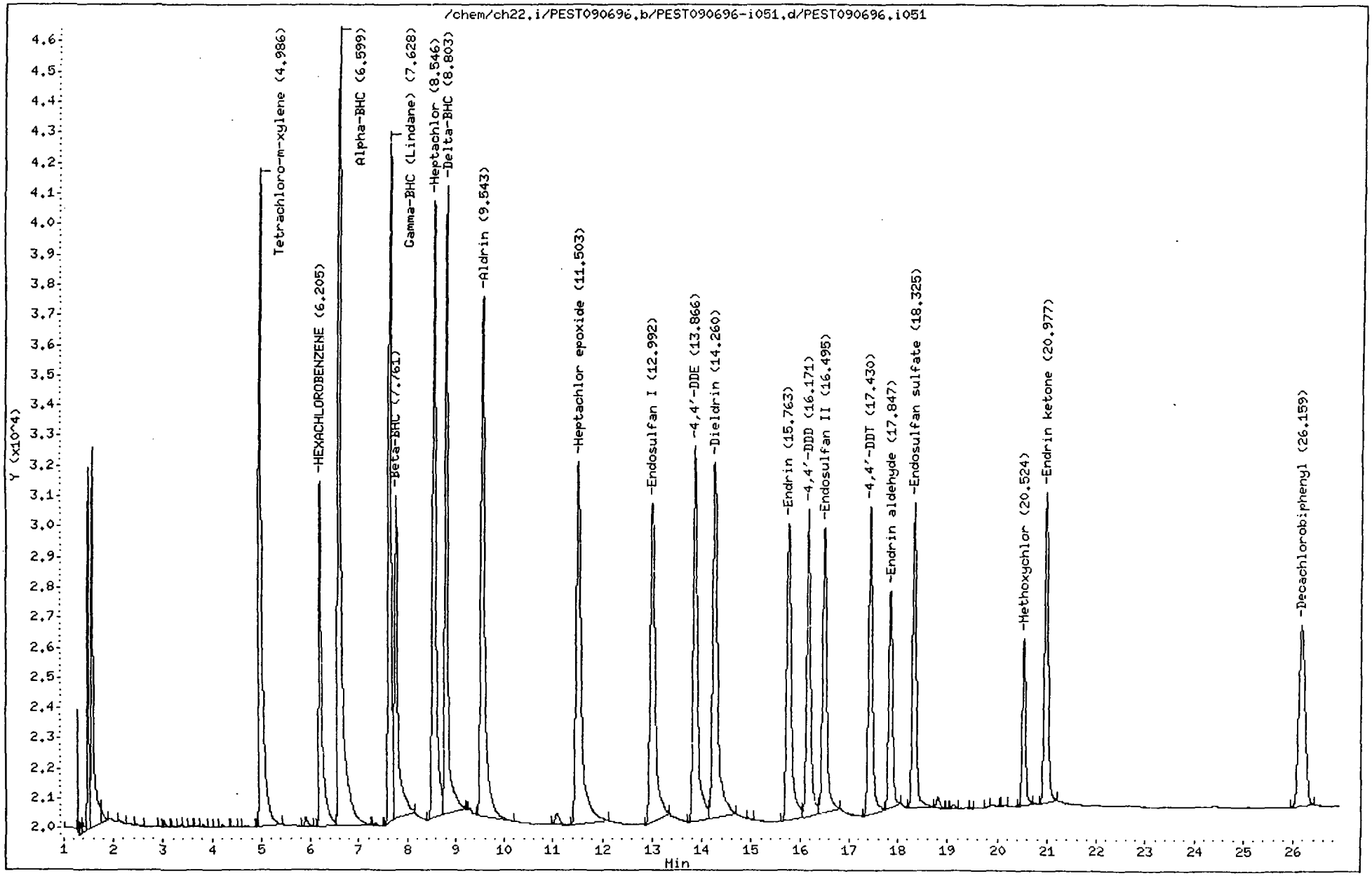
Sample Info: PESTICIDES CAL STD 0.200UG/ML AA904-73-

Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53



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Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch24.i\PEST090696.b\PEST090696-i051.d
Lab Smp Id: PESTCALL4 Client Smp ID: PESTCALL4
Inj Date : 06-SEP-96 15:02:00
Operator : MAKOWALSKI Inst ID: ch24.i
Smp Info : PESTICIDES CAL STD 0.200UG/ML AA904-73-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch24.i\PEST090696.b\24pest0906.m
Meth Date : 23-Sep-96 13:39:02 makowalski Quant Type: ISTD
Cal Date : 06-SEP-96 16:05:00 Cal File: PEST090696-i071.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Procesing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 Alpha-BHC	6.384	6.366	(1.168)	1436600	0.100	0.0969
9 Beta-BHC	9.009	8.991	(1.648)	377305	0.100	0.0898
11 Delta-BHC	9.824	9.802	(1.797)	939226	0.100	0.102
5 Gamma-BHC (Lindane)	7.333	7.311	(1.341)	1238439	0.100	0.0971
7 Heptachlor	7.958	7.936	(1.456)	1219353	0.100	0.0963
8 Aldrin	8.712	8.689	(1.594)	1082016	0.100	0.0963
13 Heptachlor epoxide	10.622	10.609	(1.943)	952204	0.100	0.0971
15 Endosulfan I	11.708	11.691	(2.142)	821829	0.100	0.0950
17 Dieldrin	13.109	13.092	(2.398)	840867	0.100	0.0979
16 4,4'-DDE	12.387	12.365	(2.266)	849363	0.100	0.101
19 Endrin	13.925	13.907	(2.547)	712906	0.100	0.0973
23 Endosulfan II	15.690	15.676	(2.870)	600020	0.100	0.105
21 4,4'-DDD	15.406	15.379	(2.818)	568202	0.100	0.102
24 4,4'-DDT	16.111	16.089	(2.947)	639717	0.100	0.101
28 Endrin ketone	19.697	19.693	(3.603)	597160	0.100	0.101
26 Endrin aldehyde	17.197	17.179	(3.146)	369879	0.100	0.101(M)
$ 1 Tetrachloro-m-xylene	4.557	4.540	(0.834)	1030096	0.100	0.0966
* 2 HEXACHLOROBENZENE	5.466	5.449	(1.000)	595396	1.00	
$ 29 Decachlorobiphenyl	22.592	22.588	(4.133)	533582	0.100	0.0974
27 Endosulfan sulf./Methoxychlor	18.363	18.345	(3.359)	782659	0.200	0.211

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch24.i/PEST090696.b/PEST090696-i051.d

Date : 06-SEP-96 15:02:00

Client ID: PESTCALL4

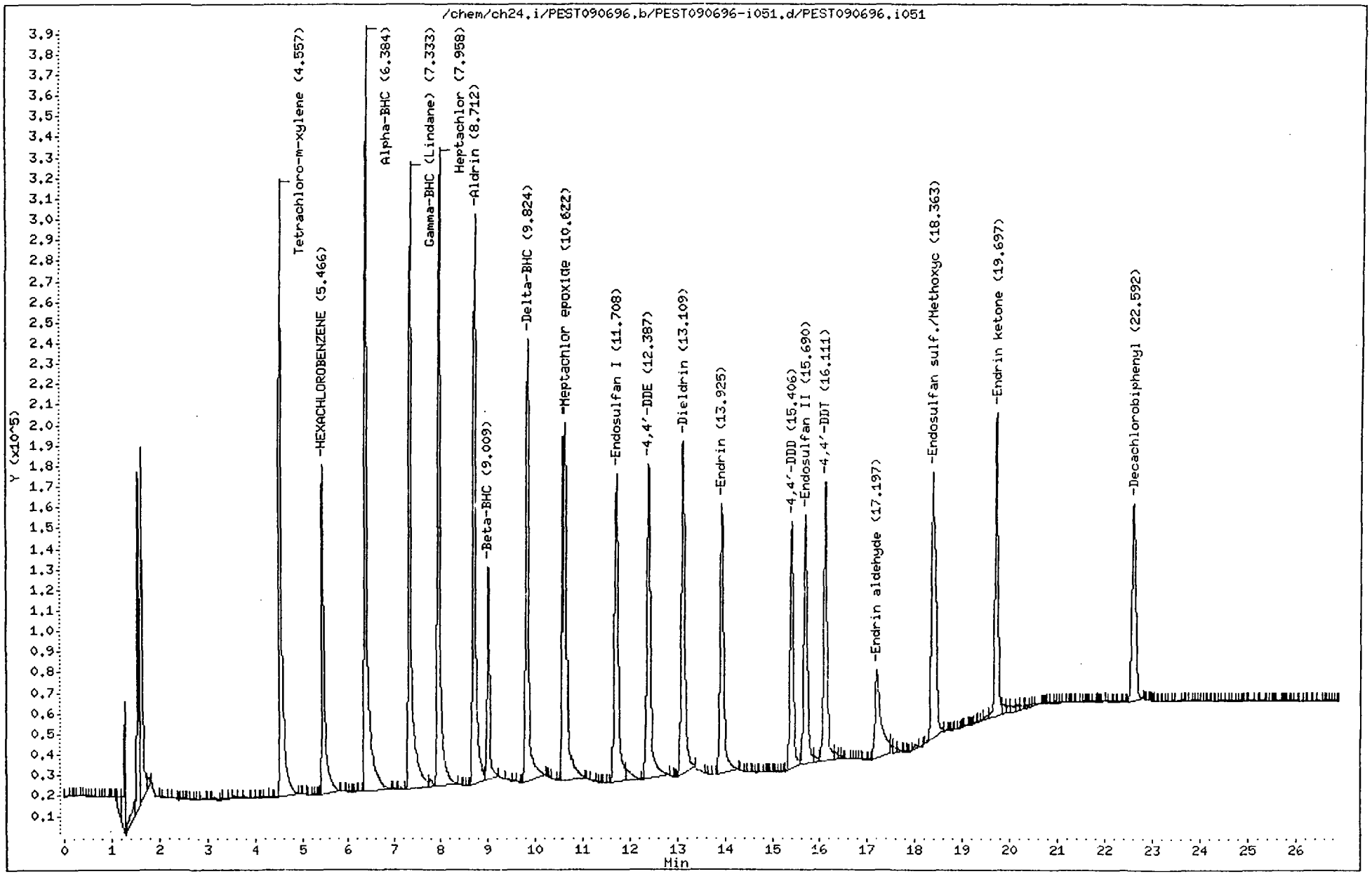
Sample Info: PESTICIDES CAL STD 0.200UG/ML AA904-73-

Column phase: DB-1701

Instrument: ch24.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i061.d
Lab Smp Id: PESTCALL5 Client Smp ID: PESTCALL5
Inj Date : 06-SEP-96 15:34:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDES CAL STD 0.250UG/ML AA904-73-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 11:21:06 mtwillet Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Procesing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 Alpha-BHC	6.590	6.590	(1.063)	151593	0.125	0.124
6 Beta-BHC	7.752	7.752	(1.250)	64378	0.125	0.122
9 Delta-BHC	8.794	8.794	(1.418)	88414	0.125	0.117
5 Gamma-BHC (Lindane)	7.615	7.619	(1.228)	106448	0.125	0.125
8 Heptachlor	8.541	8.541	(1.378)	113637	0.125	0.125
11 Aldrin	9.530	9.534	(1.537)	117617	0.125	0.124
15 Heptachlor epoxide	11.498	11.498	(1.854)	106469	0.125	0.127
16 Endosulfan I	12.992	12.979	(2.095)	95383	0.125	0.128
20 Dieldrin	14.251	14.247	(2.298)	104490	0.125	0.128
18 4,4'-DDE	13.839	13.852	(2.232)	91107	0.125	0.130
22 Endrin	15.754	15.754	(2.541)	78162	0.125	0.124
25 Endosulfan II	16.477	16.481	(2.657)	67353	0.125	0.127
24 4,4'-DDD	16.149	16.153	(2.605)	66330	0.125	0.127
29 Endosulfan sulfate	18.308	18.308	(2.953)	59872	0.125	0.122
27 4,4'-DDT	17.426	17.426	(2.810)	70999	0.125	0.130
30 Methoxychlor	20.507	20.511	(3.307)	31364	0.125	0.130
31 Endrin ketone	20.963	20.977	(3.381)	68306	0.125	0.132
28 Endrin aldehyde	17.829	17.833	(2.875)	50776	0.125	0.141
$ 1 Tetrachloro-m-xylene	4.981	4.977	(0.803)	108157	0.125	0.124
* 2 HEXACHLOROBENZENE	6.200	6.191	(1.000)	47415	1.00	
$ 32 Decachlorobiphenyl	26.150	26.150	(4.218)	64301	0.125	0.125

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i061.d

Date : 06-SEP-96 15:34:00

Client ID: PESTCALL5

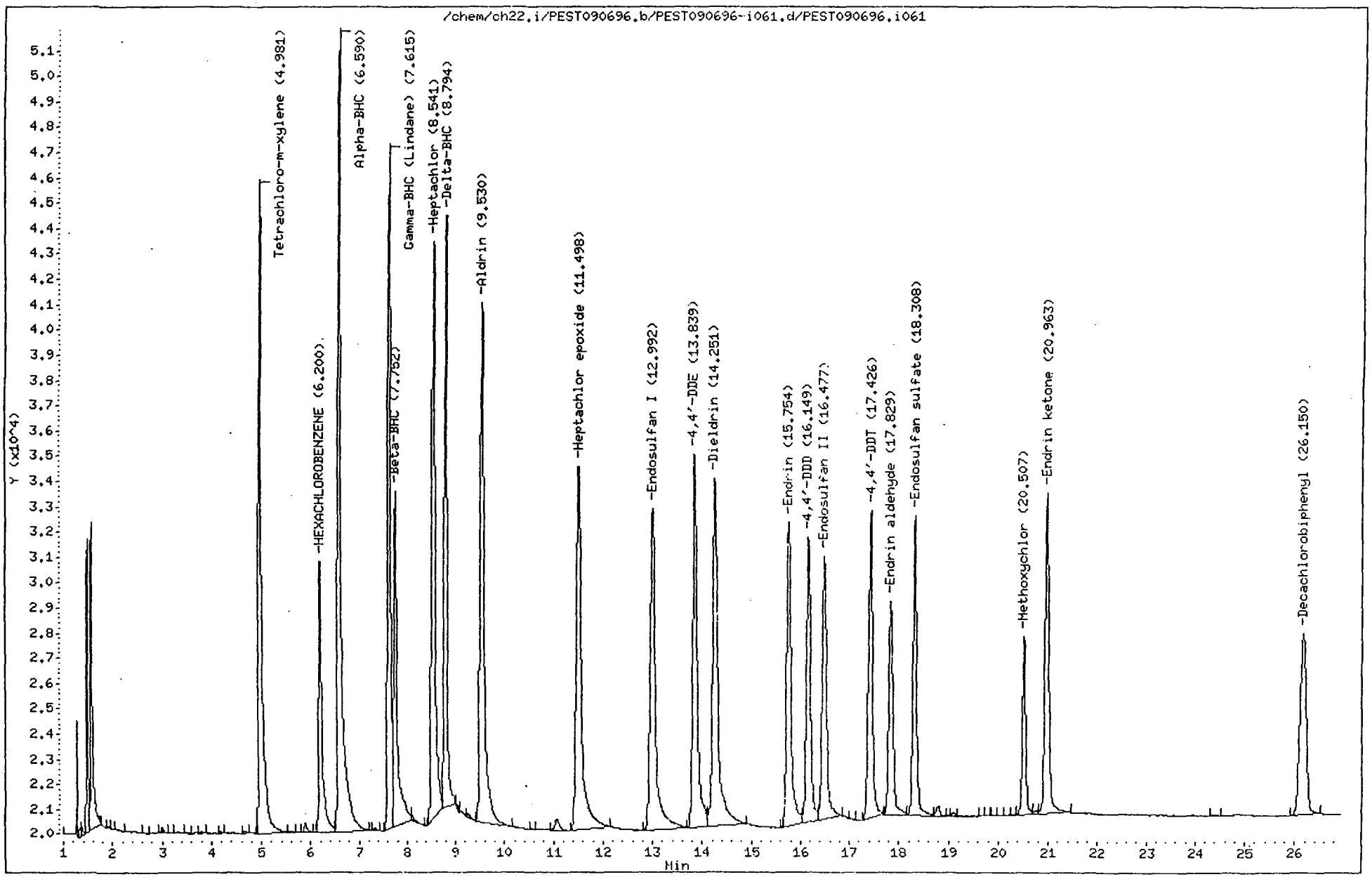
Sample Info: PESTICIDES CAL STD 0.250UG/ML AA904-73-

Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53



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Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch24.i\PEST090696.b\PEST090696-i061.d
Lab Smp Id: PESTCALL5 Client Smp ID: PESTCALL5
Inj Date : 06-SEP-96 15:34:00
Operator : MAKOWALSKI Inst ID: ch24.i
Smp Info : PESTICIDES CAL STD 0.250UG/ML AA904-73-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch24.i\PEST090696.b\24pest0906.m
Meth Date : 23-Sep-96 13:39:02 makowalski Quant Type: ISTD
Cal Date : 06-SEP-96 16:05:00 Cal File: PEST090696-i071.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Procesing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	3 Alpha-BHC	6.371	6.366	(1.167)	1727914	0.125	0.121
	9 Beta-BHC	8.995	8.991	(1.648)	546127	0.125	0.135
	11 Delta-BHC	9.811	9.802	(1.798)	1017103	0.125	0.115
	5 Gamma-BHC (Lindane)	7.319	7.311	(1.341)	1496551	0.125	0.122
	7 Heptachlor	7.945	7.936	(1.456)	1488036	0.125	0.122
	8 Aldrin	8.698	8.689	(1.594)	1327135	0.125	0.122
	13 Heptachlor epoxide	10.605	10.609	(1.943)	1184113	0.125	0.125
	15 Endosulfan I	11.700	11.691	(2.144)	1026202	0.125	0.123
	17 Dieldrin	13.096	13.092	(2.400)	1009673	0.125	0.122
	16 4,4'-DDE	12.373	12.365	(2.267)	963157	0.125	0.119
	19 Endrin	13.916	13.907	(2.550)	843584	0.125	0.119
	23 Endosulfan II	15.681	15.676	(2.873)	664882	0.125	0.121
	21 4,4'-DDD	15.388	15.379	(2.820)	665187	0.125	0.124
	24 4,4'-DDT	16.093	16.089	(2.949)	744442	0.125	0.122
	28 Endrin ketone	19.688	19.693	(3.608)	672020	0.125	0.118
	26 Endrin aldehyde	17.184	17.179	(3.149)	429797	0.125	0.125
$	1 Tetrachloro-m-xylene	4.549	4.540	(0.833)	1250232	0.125	0.122
*	2 HEXACHLOROBENZENE	5.457	5.449	(1.000)	574221	1.00	
$	29 Decachlorobiphenyl	22.592	22.588	(4.140)	643756	0.125	0.122
	27 Endosulfan sulf./Methoxychlor	18.358	18.345	(3.364)	874974	0.250	0.244

Data File: /chem/ch24.i/PEST090696.b/PEST090696-i061.d

Date : 06-SEP-96 15:34:00

Client ID: PESTCALL5

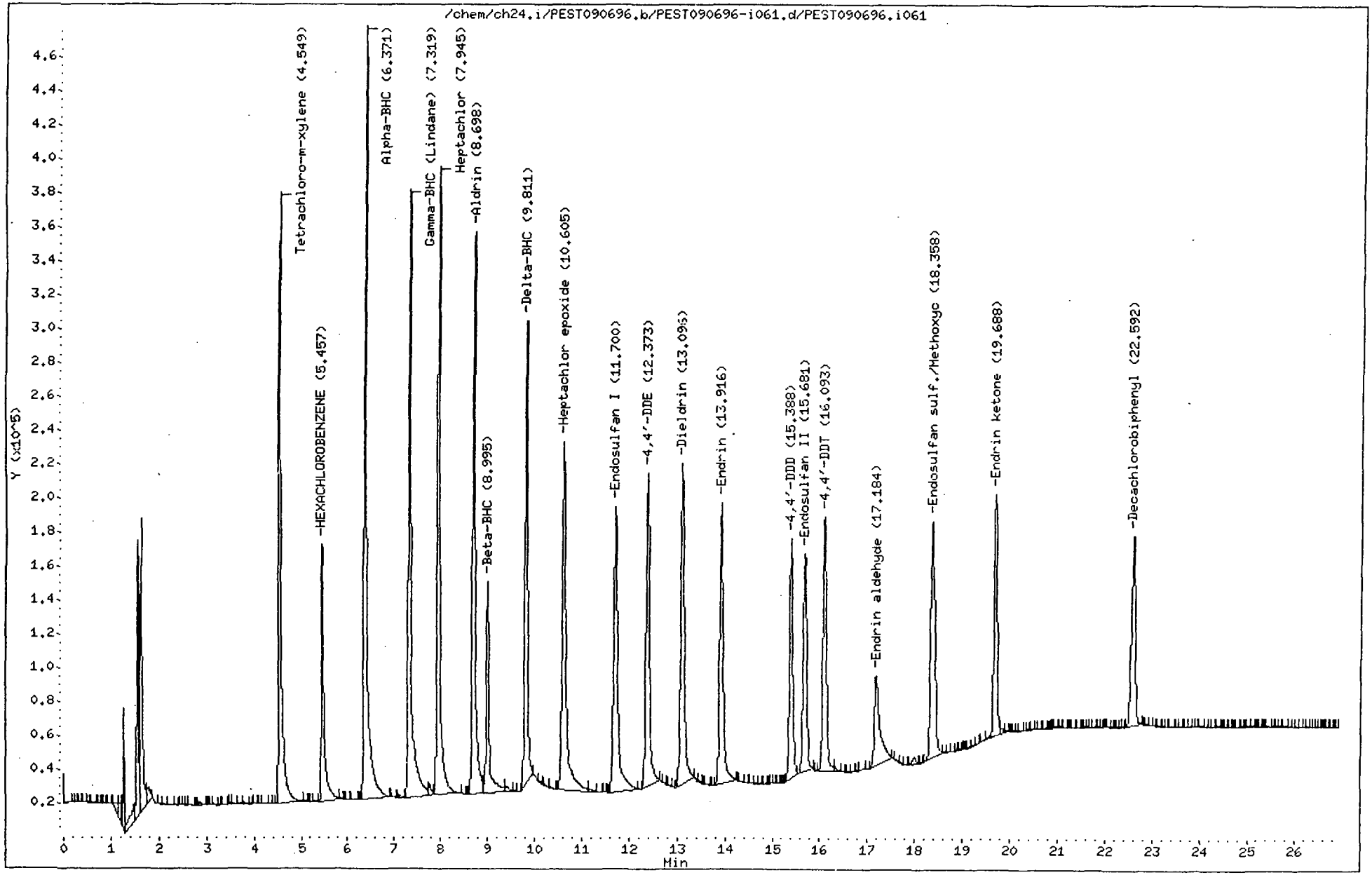
Sample Info: PESTICIDES CAL STD 0.250UG/ML AA904-73-

Column phase: DB-1701

Instrument: ch24.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i071.d
Lab Smp Id: PESTCALL6 Client Smp ID: PESTCALL6
Inj Date : 06-SEP-96 16:05:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDES CAL STD 0.400UG/ML AA904-73-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 11:21:06 mtwillet Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Procesing Host: GC1

					AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
Compounds	RT	EXP RT	REL RT	RESPONSE		
3 Alpha-BHC	6.590	6.590	(1.064)	228844	0.200	0.183
6 Beta-BHC	7.752	7.752	(1.252)	108777	0.200	0.202
9 Delta-BHC	8.794	8.794	(1.420)	150047	0.200	0.194
5 Gamma-BHC (Lindane)	7.619	7.619	(1.231)	162819	0.200	0.187
8 Heptachlor	8.541	8.541	(1.380)	181105	0.200	0.196
11 Aldrin	9.534	9.534	(1.540)	78843	0.200	0.0814
15 Heptachlor epoxide	11.498	11.498	(1.857)	167575	0.200	0.196
16 Endosulfan I	12.979	12.979	(2.096)	152494	0.200	0.201
20 Dieldrin	14.247	14.247	(2.301)	145390	0.200	0.174
18 4,4'-DDE	13.852	13.852	(2.237)	138305	0.200	0.194
22 Endrin	15.754	15.754	(2.545)	127995	0.200	0.200
25 Endosulfan II	16.481	16.481	(2.662)	106275	0.200	0.197
24 4,4'-DDD	16.153	16.153	(2.609)	105027	0.200	0.198
29 Endosulfan sulfate	18.308	18.308	(2.957)	86475	0.200	0.173
27 4,4'-DDT	17.426	17.426	(2.814)	108593	0.200	0.195
30 Methoxychlor	20.511	20.511	(3.313)	47771	0.200	0.194
31 Endrin ketone	20.977	20.977	(3.388)	102510	0.200	0.194
28 Endrin aldehyde	17.833	17.833	(2.880)	72053	0.200	0.196
$ 1 Tetrachloro-m-xylene	4.977	4.977	(0.804)	168155	0.200	0.190
* 2 HEXACHLOROBENZENE	6.191	6.191	(1.000)	48379	1.00	
$ 32 Decachlorobiphenyl	26.150	26.150	(4.224)	0	0.200	

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i071.d

Date : 06-SEP-96 16:05:00

Client ID: PESTCALL6

Sample Info: PESTICIDES CAL STD 0.400UG/ML AA904-73-

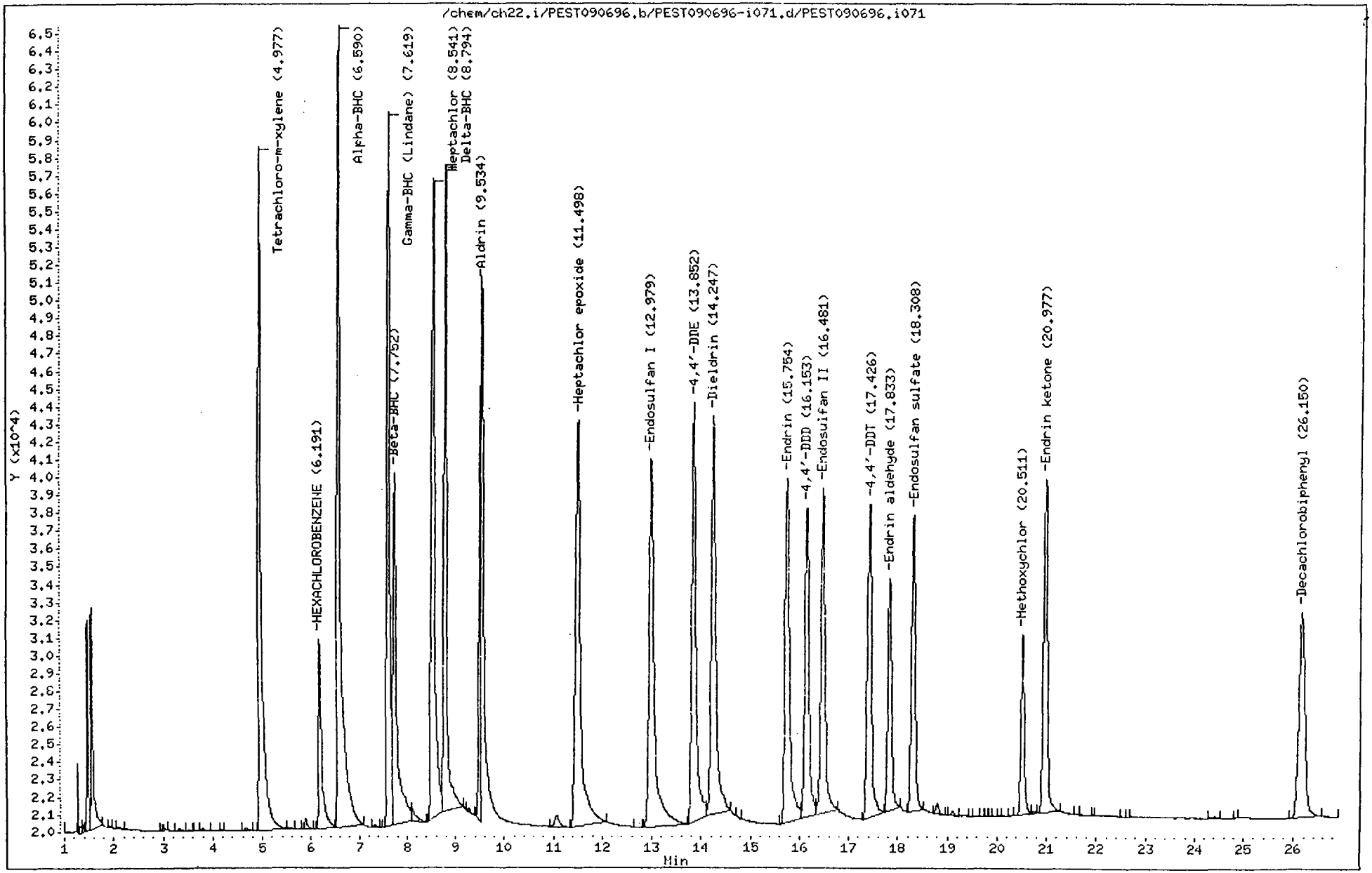
Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53

510



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch24.i\PEST090696.b\PEST090696-i071.d
Lab Smp Id: PESTCALL6 Client Smp ID: PESTCALL6
Inj Date : 06-SEP-96 16:05:00
Operator : MAKOWALSKI Inst ID: ch24.i
Smp Info : PESTICIDES CAL STD 0.400UG/ML AA904-73-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch24.i\PEST090696.b\24pest0906.m
Meth Date : 23-Sep-96 13:39:02 makowalski Quant Type: ISTD
Cal Date : 06-SEP-96 16:05:00 Cal File: PEST090696-i071.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Procesing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	3 Alpha-BHC	6.371	6.366	(1.167)	2902439	0.200	0.205
	9 Beta-BHC	8.995	8.991	(1.648)	774843	0.200	0.193
	11 Delta-BHC	9.811	9.802	(1.798)	1745118	0.200	0.199
	5 Gamma-BHC (Lindane)	7.319	7.311	(1.341)	2482933	0.200	0.204
	7 Heptachlor	7.945	7.936	(1.456)	2471251	0.200	0.204
	8 Aldrin	8.694	8.689	(1.593)	2186913	0.200	0.204
	13 Heptachlor epoxide	10.618	10.609	(1.946)	1901138	0.200	0.203
	15 Endosulfan I	11.700	11.691	(2.144)	1689177	0.200	0.204
	17 Dieldrin	13.105	13.092	(2.401)	1672401	0.200	0.204
	16 4,4'-DDE	12.373	12.365	(2.267)	1624140	0.200	0.203
	19 Endrin	13.925	13.907	(2.552)	1426223	0.200	0.204
	23 Endosulfan II	15.681	15.676	(2.873)	1226518	0.200	0.225
	21 4,4'-DDD	15.393	15.379	(2.820)	1189923	0.200	0.224
	24 4,4'-DDT	16.097	16.089	(2.950)	1226497	0.200	0.202
	28 Endrin ketone	19.697	19.693	(3.609)	1142954	0.200	0.203
	26 Endrin aldehyde	17.184	17.179	(3.149)	711686	0.200	0.210
$	1 Tetrachloro-m-xylene	4.544	4.540	(0.833)	2074121	0.200	0.204
*	2 HEXACHLOROBENZENE	5.457	5.449	(1.000)	568129	1.00	
$	29 Decachlorobiphenyl	22.592	22.588	(4.140)	1063615	0.200	0.203
	27 Endosulfan sulf./Methoxychlor	18.385	18.345	(3.369)	798607	0.400	0.303

Data File: /chem/ch24.i/PEST090696.b/PEST090696-i071.d

Date : 06-SEP-96 16:05:00

Client ID: PESTCALL6

Sample Info: PESTICIDES CAL STD 0.400UG/ML AA904-73-

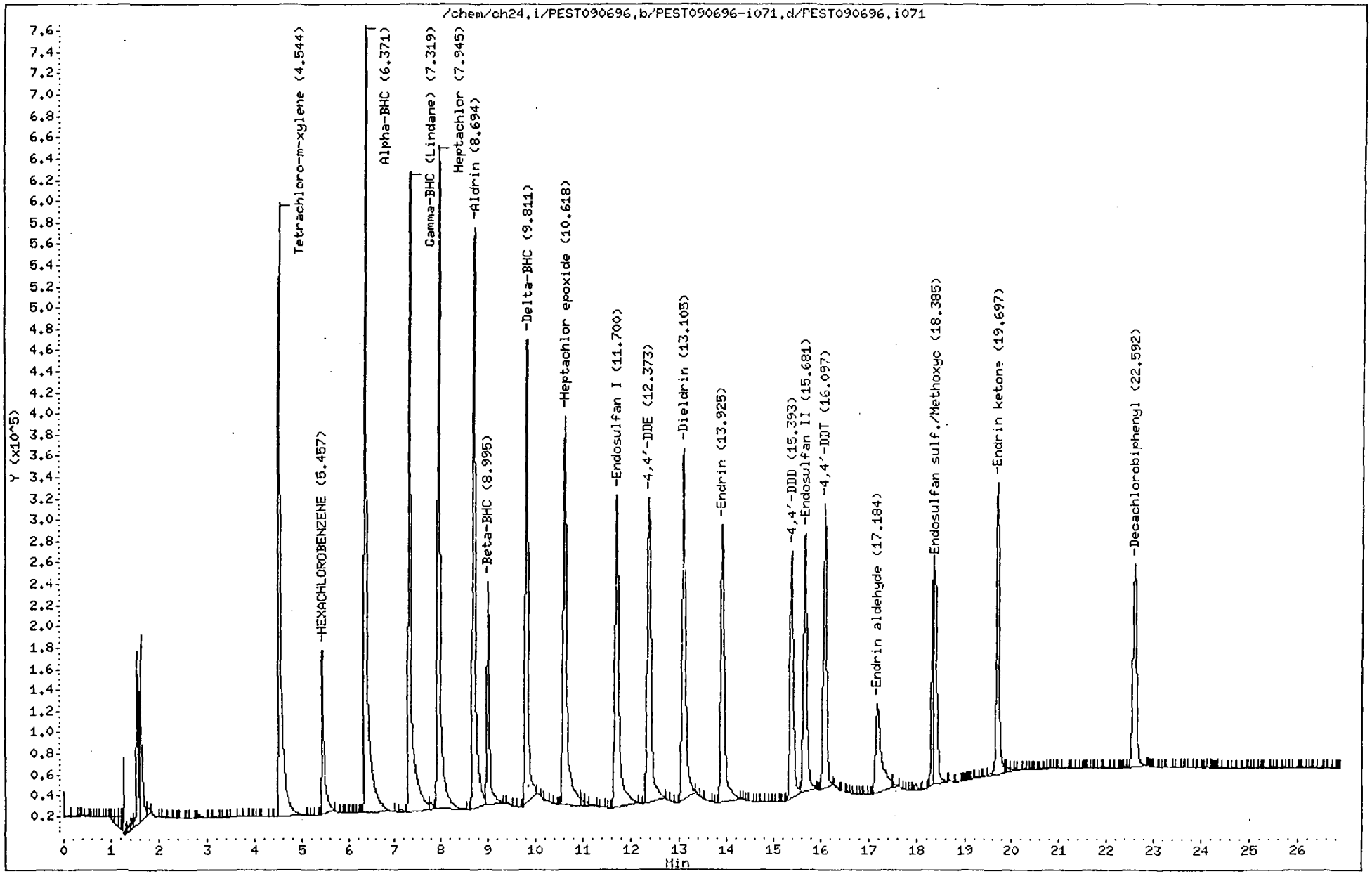
Column phase: DB-1701

Instrument: ch24.i

Operator: MAKOWALSKI

Column diameter: 0.53

512

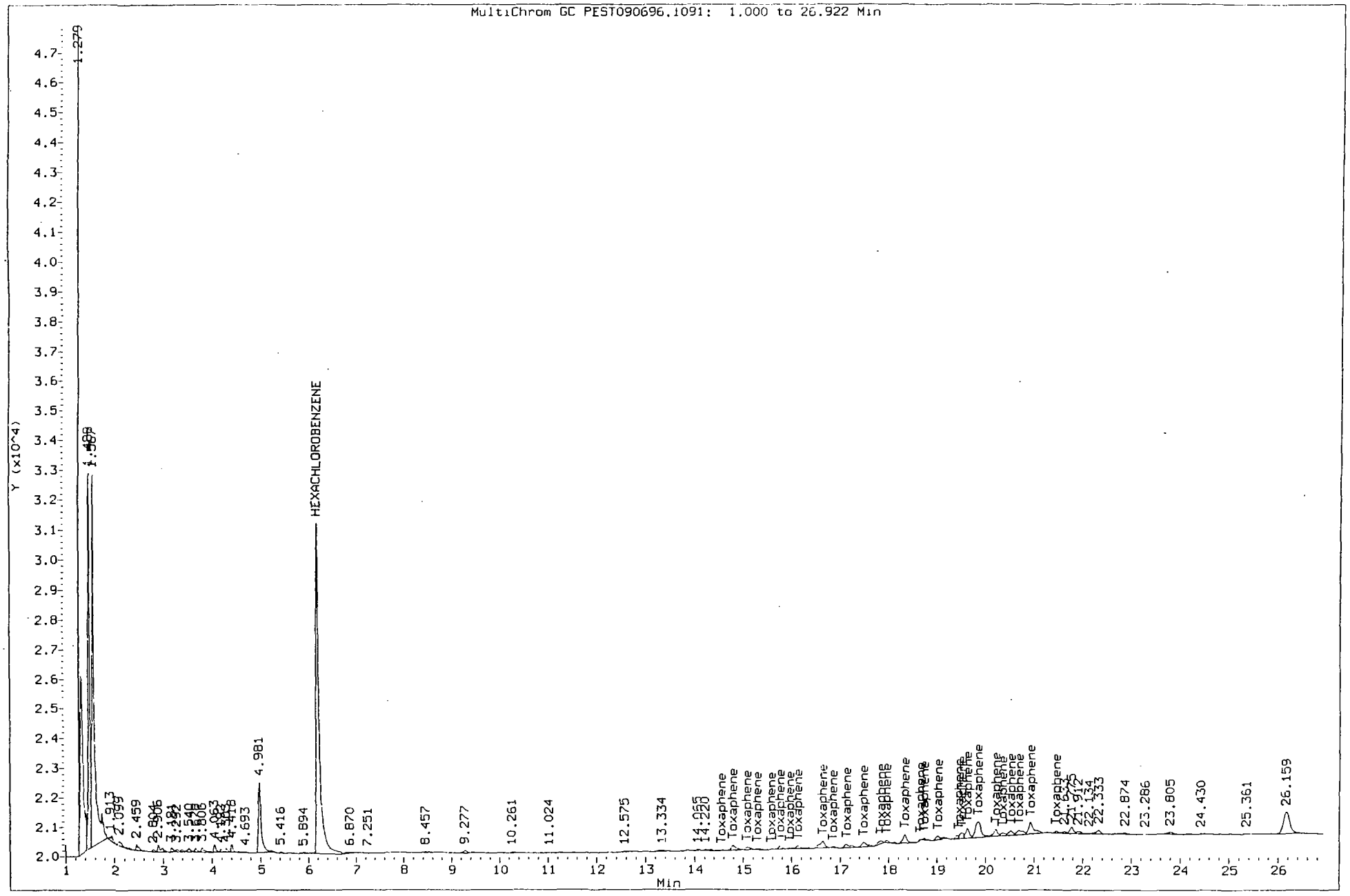


Thru-Put Systems, Inc.

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i091.d
Lab Smp Id: TOXCALL1 Client Smp ID: TOXCALL1
Inj Date : 06-SEP-96 17:08:00
Operator : MAK Inst ID: ch22.i
Smp Info : TOXAPHENE CAL STD 0.20UG/ML AA904-69-
Misc Info :
Comment :
Method : \chem\ch22.i\PEST090696.b\22tox090696.m
Meth Date : 23-Sep-96 10:43:51 mtwillet Quant Type: ISTD
Cal Date : 06-SEP-96 19:14:00 Cal File: PEST090696-i131.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.21
Procesing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
S 1 Toxaphene	14.500	-21.500		28629	0.100	0.008
* 2 HEXACHLOROBENZENE	6.200	6.196	(1.000)	49611	1.000	

Data File: /chem/ch22.i/PEST090696.b/PEST090696-1091.d/PEST090696.1091
Injection Date: 06-SEP-96 17:08:00
Instrument: ch22.i
Client Sample ID: TOXCALL1

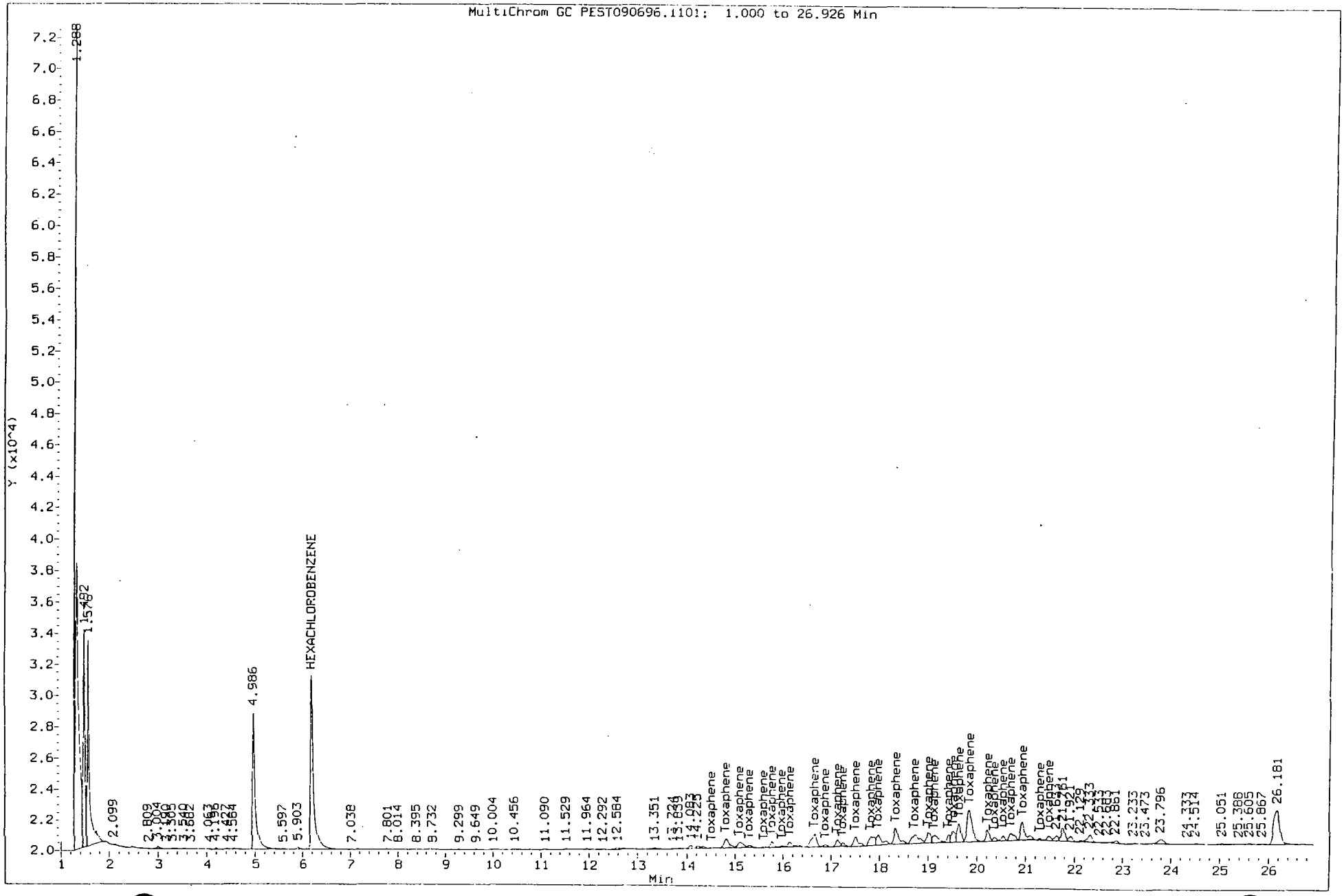


Thru-Put Systems, Inc.

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i101.d
Lab Smp Id: TOXCALL2 Client Smp ID: TOXCALL2
Inj Date : 06-SEP-96 17:40:00
Operator : MAK Inst ID: ch22.i
Smp Info : TOXAPHENE CAL STD 0.75UG/ML AA904-69-
Misc Info :
Comment :
Method : \chem\ch22.i\PEST090696.b\22tox090696.m
Meth Date : 23-Sep-96 10:43:51 mtwillet Quant Type: ISTD
Cal Date : 06-SEP-96 19:14:00 Cal File: PEST090696-i131.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.21
Procesing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
S 1 Toxaphene	14.500	21.500		112761	0.375	0.402
* 2 HEXACHLOROBENZENE	6.205	6.196	(1.000)	50439	1.000	

Data File: /chem/ch22.i/PEST090696.b/PEST090696-1101.d/PEST090696.1101
Injection Date: 06-SEP-96 17:40:00
Instrument: ch22.i
Client Sample ID: TOXCALL2

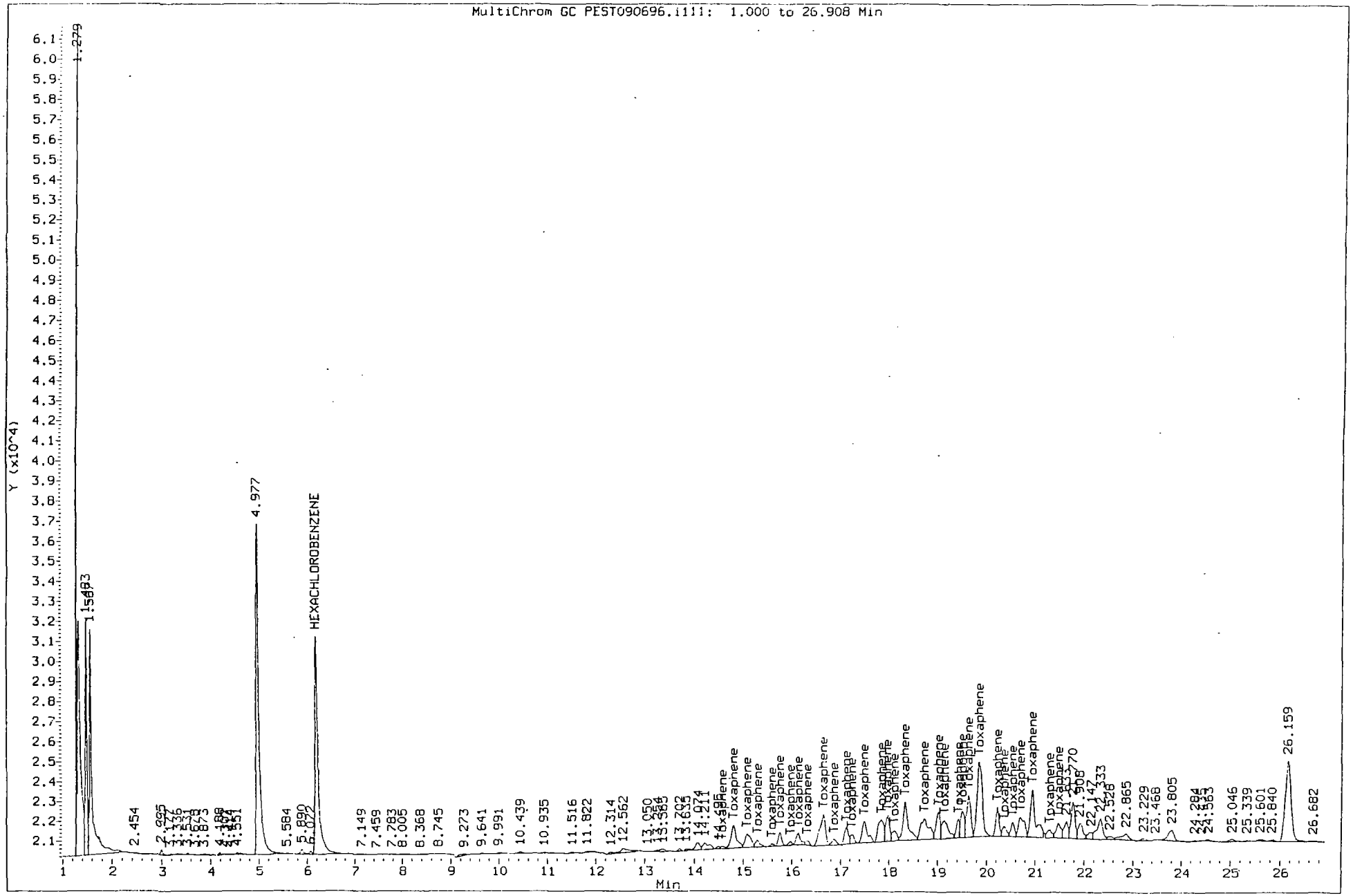


Thru-Put Systems, Inc.

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i111.d
Lab Smp Id: TOXCALL3 Client Smp ID: TOXCALL3
Inj Date : 06-SEP-96 18:11:00
Operator : MAK Inst ID: ch22.i
Smp Info : TOXAPHENE CAL STD 1.50UG/ML AA904-69-
Misc Info :
Comment :
Method : \chem\ch22.i\PEST090696.b\22tox090696.m
Meth Date : 23-Sep-96 10:43:51 mtwillet Quant Type: ISTD
Cal Date : 06-SEP-96 19:14:00 Cal File: PEST090696-i131.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.21
Procesing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
S 1 Toxaphene	14.500	21.500		232441	0.750	0.695
* 2 HEXACHLOROBENZENE	6.196	6.196	(1.000)	50269	1.000	

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i111.d/PEST090696.i111
Injection Date: 06-SEP-96 18:11:00
Instrument: ch22.i
Client Sample ID: TOXCALL3

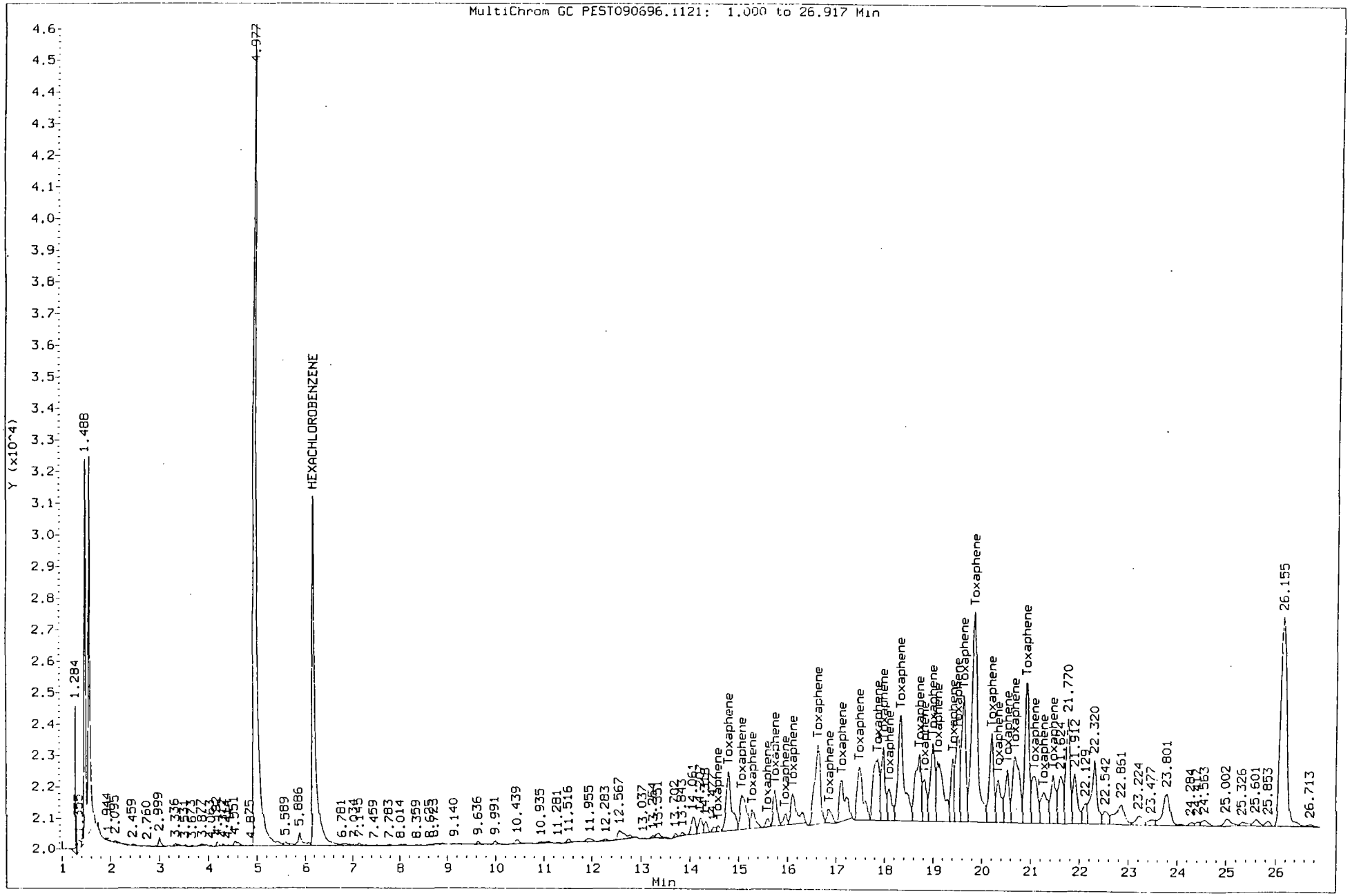


Thru-Put Systems, Inc.

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i121.d
Lab Smp Id: TOXCALL4 Client Smp ID: TOXCALL4
Inj Date : 06-SEP-96 18:43:00
Operator : MAK Inst ID: ch22.i
Smp Info : TOXAPHENE CAL STD 2.50UG/ML AA904-69-
Misc Info :
Comment :
Method : \chem\ch22.i\PEST090696.b\22tox090696.m
Meth Date : 23-Sep-96 10:43:51 mtwillet Quant Type: ISTD
Cal Date : 06-SEP-96 19:14:00 Cal File: PEST090696-i131.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.21
Procesing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
S 1 Toxaphene	14.500	21.500		458991	1.250	1.983
* 2 HEXACHLOROBENZENE	6.196	6.196	(1.000)	51648	1.000	

Data File: /chem/ch22.i/PEST090696.b/PEST090696-1121.d/PEST090696.1121
Injection Date: 06-SEP-96 18:43:00
Instrument: ch22.i
Client Sample ID: TOXCALL4

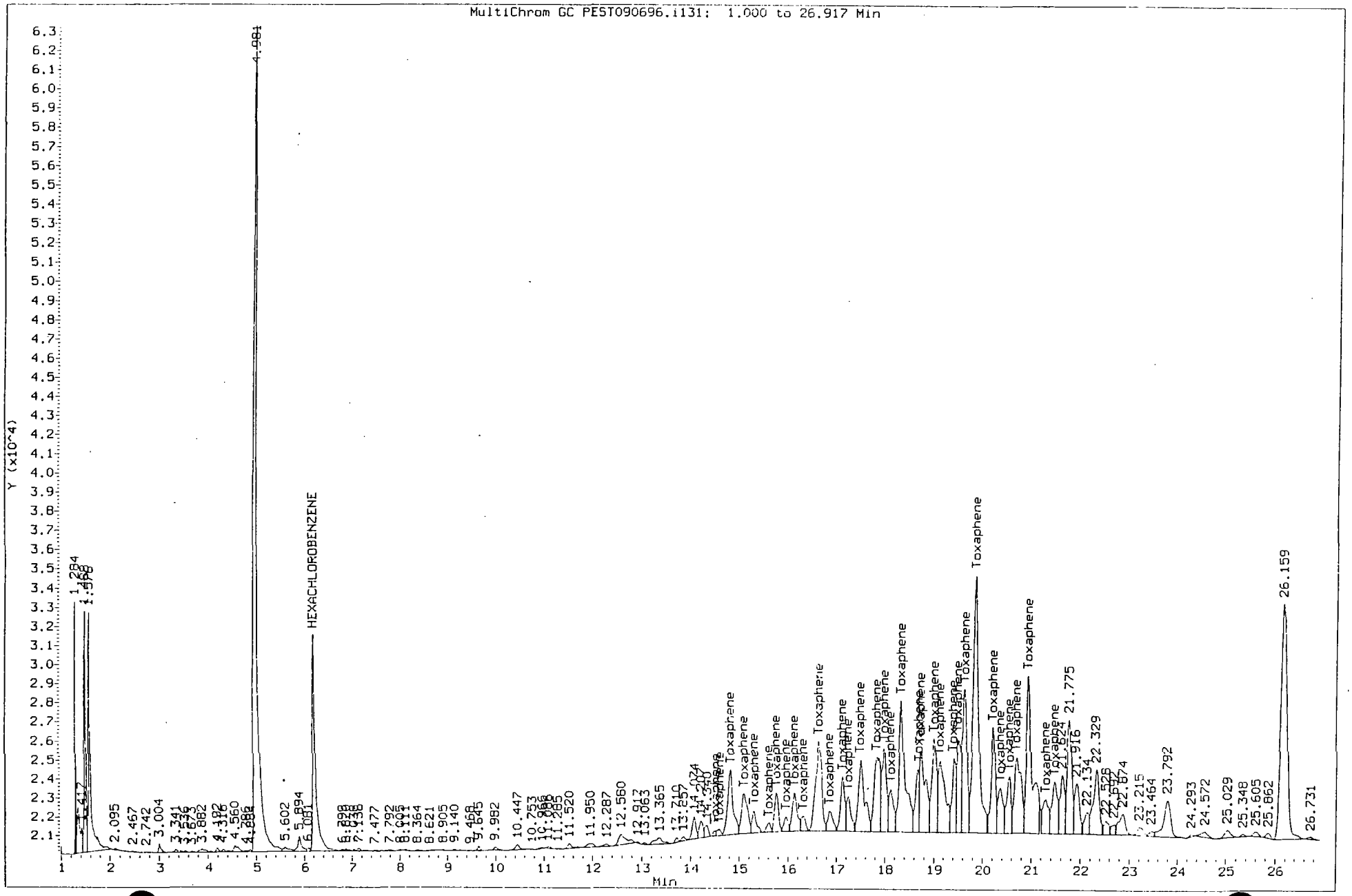


Thru-Put Systems, Inc.

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i131.d
Lab Smp Id: TOXCALL5 Client Smp ID: TOXCALL5
Inj Date : 06-SEP-96 19:14:00
Operator : MAK Inst ID: ch22.i
Smp Info : TOXAPHENE CAL STD 5.00UG/ML AA904-69-
Misc Info :
Comment :
Method : \chem\ch22.i\PEST090696.b\22tox090696.m
Meth Date : 23-Sep-96 10:43:51 mtwillet Quant Type: ISTD
Cal Date : 06-SEP-96 19:14:00 Cal File: PEST090696-i131.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.21
Procesing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
S 1 Toxaphene	14.500	21.500		923330	2.500	2.525
* 2 HEXACHLOROBENZENE	6.200	6.196	(1.000)	52844	1.000	

Data File: /chem/ch22.i/PEST090696.b/PEST090696-1131.d/PEST090696.1131
Injection Date: 06-SEP-96 19:14:00
Instrument: ch22.i
Client Sample ID: TOXCALL5



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i151.d
Lab Smp Id: PCHLRL1 Client Smp ID: PCHLRL1
Inj Date : 06-SEP-96 20:17:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDE/CHLORDANE MIX L1 #AA904-66-4
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 17:22:46 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCHLR.sub
Target Version: 3.21 Sample Matrix: None
Procesing Host: GC1

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
19 Chlordane				CAS #: 12789-03-6		
8.098	8.098 (0.000)	221	0.00750	0.00674		100.00(M)
8.546	8.546 (0.000)	455	0.00750	0.00840	0.00- 0.00	205.88
12.168	12.168 (0.000)	1037	0.00750	0.00949	0.00- 0.00	469.23
12.496	12.496 (0.000)	148	0.00750	0.00706	0.00- 0.00	66.97
12.837	12.837 (0.000)	633	0.00750	0.0108	0.00- 0.00	286.43
	Average of Peak Amounts =			0.00849		
* 2 HEXACHLOROBENZENE				CAS #:		
6.191	6.191 (1.000)	48156	1.00			100.00

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i151.d

Date : 06-SEP-96 20:17:00

Client ID: PCHLRL1

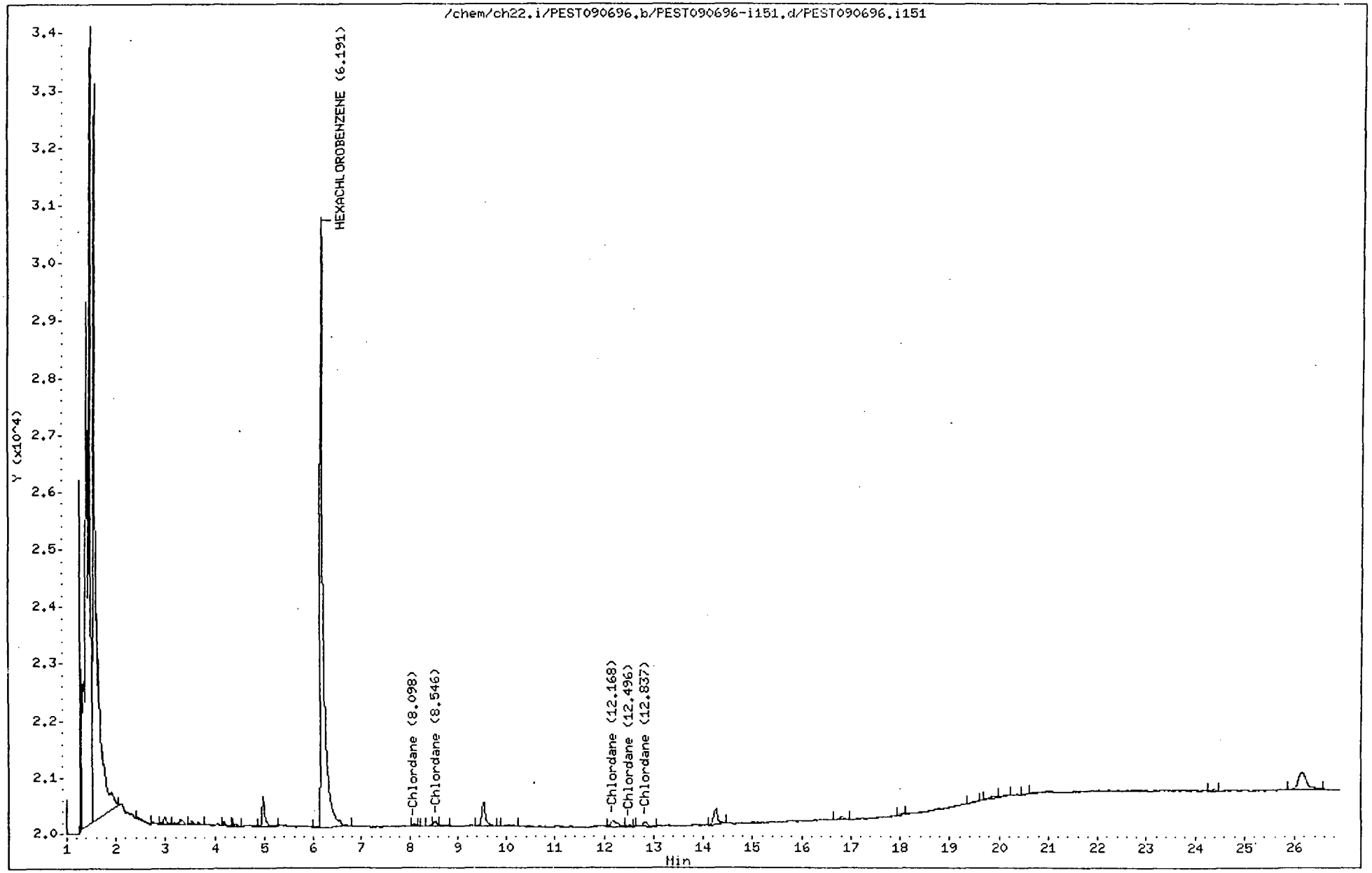
Instrument: ch22.i

Sample Info: PESTICIDE/CHLORDANE MIX L1 #AA904-66-4

Operator: MAK

Column phase: DB-608

Column diameter: 0.53



5'4

Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i161.d
Lab Smp Id: PCHLRL2 Client Smp ID: PCHLRL2
Inj Date : 06-SEP-96 20:49:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDE/CHLORDANE MIX L2 #AA904-66-4
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 17:22:59 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCHLR.sub
Target Version: 3.21 Sample Matrix: None
Procesing Host: GC1

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
19 Chlordane				CAS #: 12789-03-6		
8.093	8.093 (0.000)	1231	0.0375	0.0372		100.00
8.523	8.523 (0.000)	2401	0.0375	0.0439	0.00- 0.00	195.04
12.150	12.150 (0.000)	4601	0.0375	0.0417	0.00- 0.00	373.76
12.496	12.496 (0.000)	655	0.0375	0.0310	0.00- 0.00	53.21
12.819	12.819 (0.000)	2206	0.0375	0.0372	0.00- 0.00	179.20
	Average of Peak Amounts =			0.0382		
* 2 HEXACHLOROBENZENE				CAS #:		
6.183	6.183 (1.000)	48628	1.00			100.00

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i161.d

Date : 06-SEP-96 20:49:00

Client ID: PCHLRL2

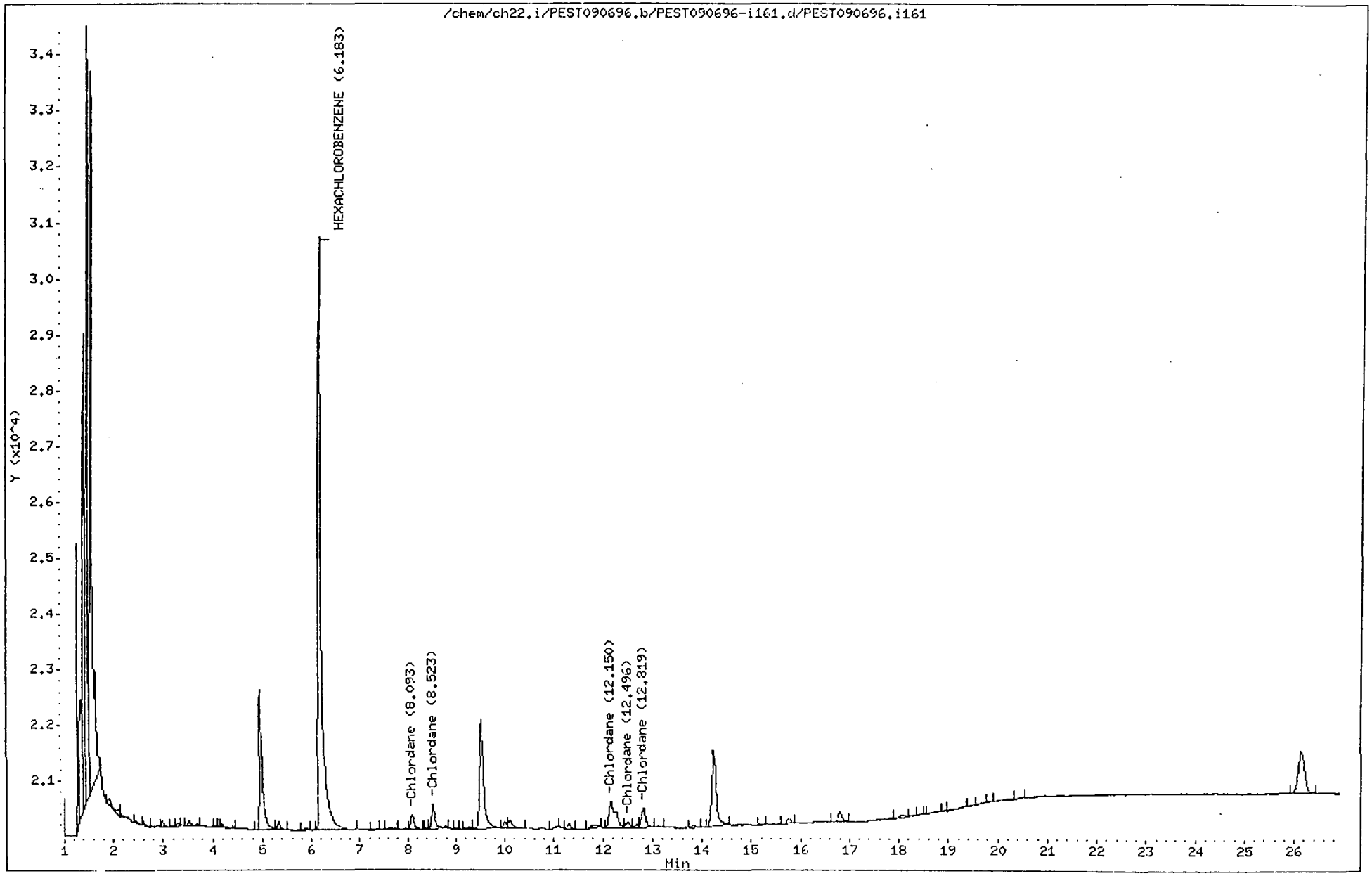
Sample Info: PESTICIDE/CHLORDANE MIX L2 #AA904-66-4

Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i171.d
Lab Smp Id: PCHLRL3 Client Smp ID: PCHLRL3
Inj Date : 06-SEP-96 21:20:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDE/CHLORDANE MIX L3 #AA904-66-4
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 17:23:12 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCHLR.sub
Target Version: 3.21 Sample Matrix: None
Procesing Host: GC1

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
19 Chlordane				CAS #: 12789-03-6		
8.102	8.102 (0.000)	5607	0.150	0.167		100.00(M)
8.541	8.541 (0.000)	10156	0.150	0.183	0.00- 0.00	181.13
12.172	12.172 (0.000)	18824	0.150	0.168	0.00- 0.00	335.72
12.509	12.509 (0.000)	3564	0.150	0.166	0.00- 0.00	63.56
12.837	12.837 (0.000)	10636	0.150	0.176	0.00- 0.00	189.69
	Average of Peak Amounts =			0.172		
* 2 HEXACHLOROBENZENE				CAS #:		
6.196	6.196 (1.000)	49364	1.00			100.00

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i171.d

Date : 06-SEP-96 21:20:00

Client ID: PCHLRL3

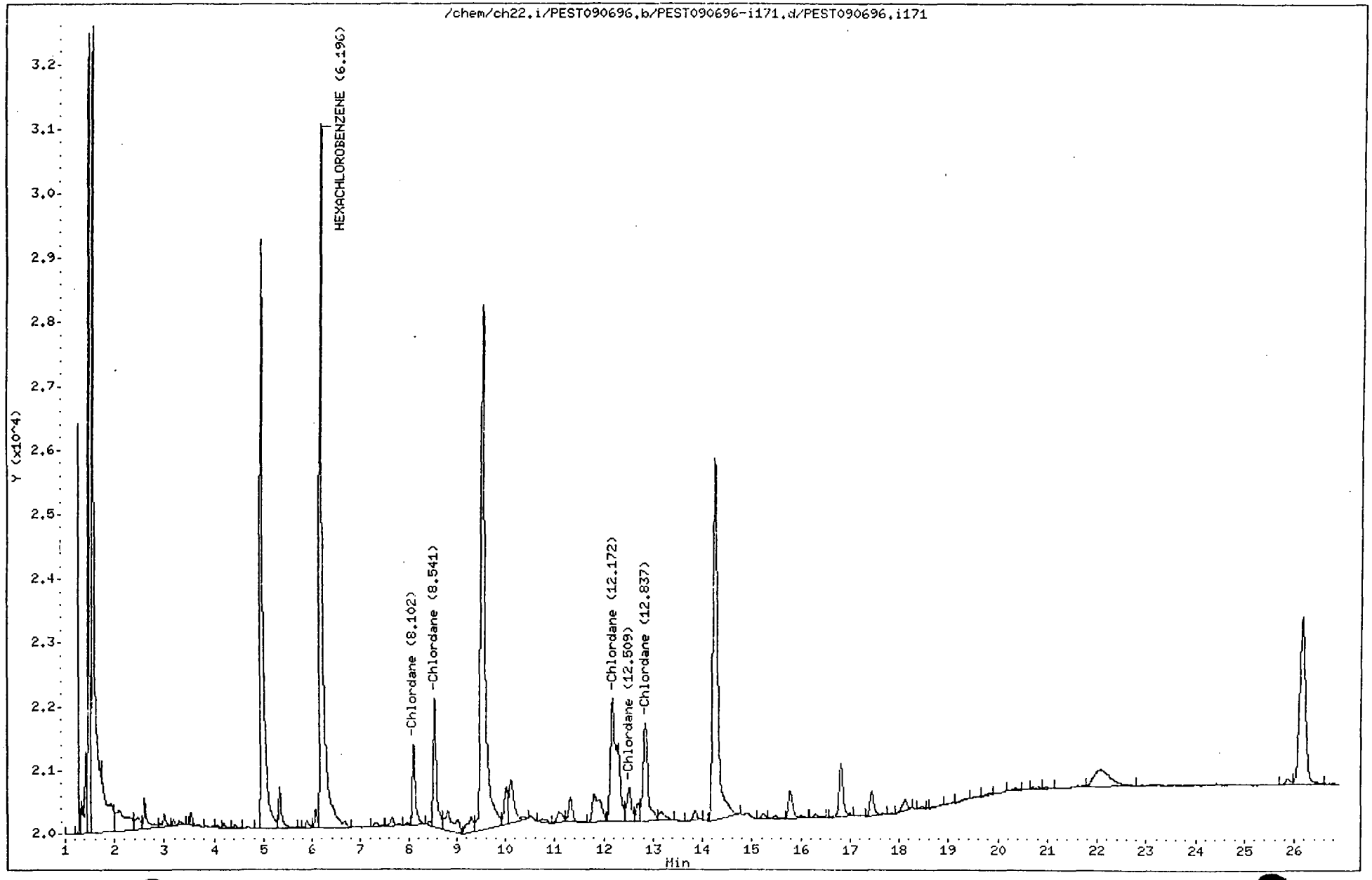
Sample Info: PESTICIDE/CHLORDANE MIX L3 #AA904-66-4

Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i181.d
Lab Smp Id: PCHLRL4 Client Smp ID: PCHLRL4
Inj Date : 06-SEP-96 21:52:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDE/CHLORDANE MIX L4 #AA904-66-4
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 17:23:24 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCHLR.sub
Target Version: 3.21 Sample Matrix: None
Procesing Host: GC1

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
19 Chlordane				CAS #: 12789-03-6		
8.089	8.089 (0.000)	10542	0.300	0.311		100.00
8.523	8.523 (0.000)	17562	0.300	0.314	0.00- 0.00	166.59
12.154	12.154 (0.000)	35713	0.300	0.316	0.00- 0.00	338.77
12.491	12.491 (0.000)	6273	0.300	0.290	0.00- 0.00	59.50
12.815	12.815 (0.000)	18753	0.300	0.308	0.00- 0.00	177.89
	Average of Peak Amounts =			0.308		
* 2 HEXACHLOROBENZENE				CAS #:		
6.183	6.183 (1.000)	49780	1.00			100.00

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i181.d

Date : 06-SEP-96 21:52:00

Client ID: PCHLRL4

Sample Info: PESTICIDE/CHLORDANE MIX L4 #AA904-66-4

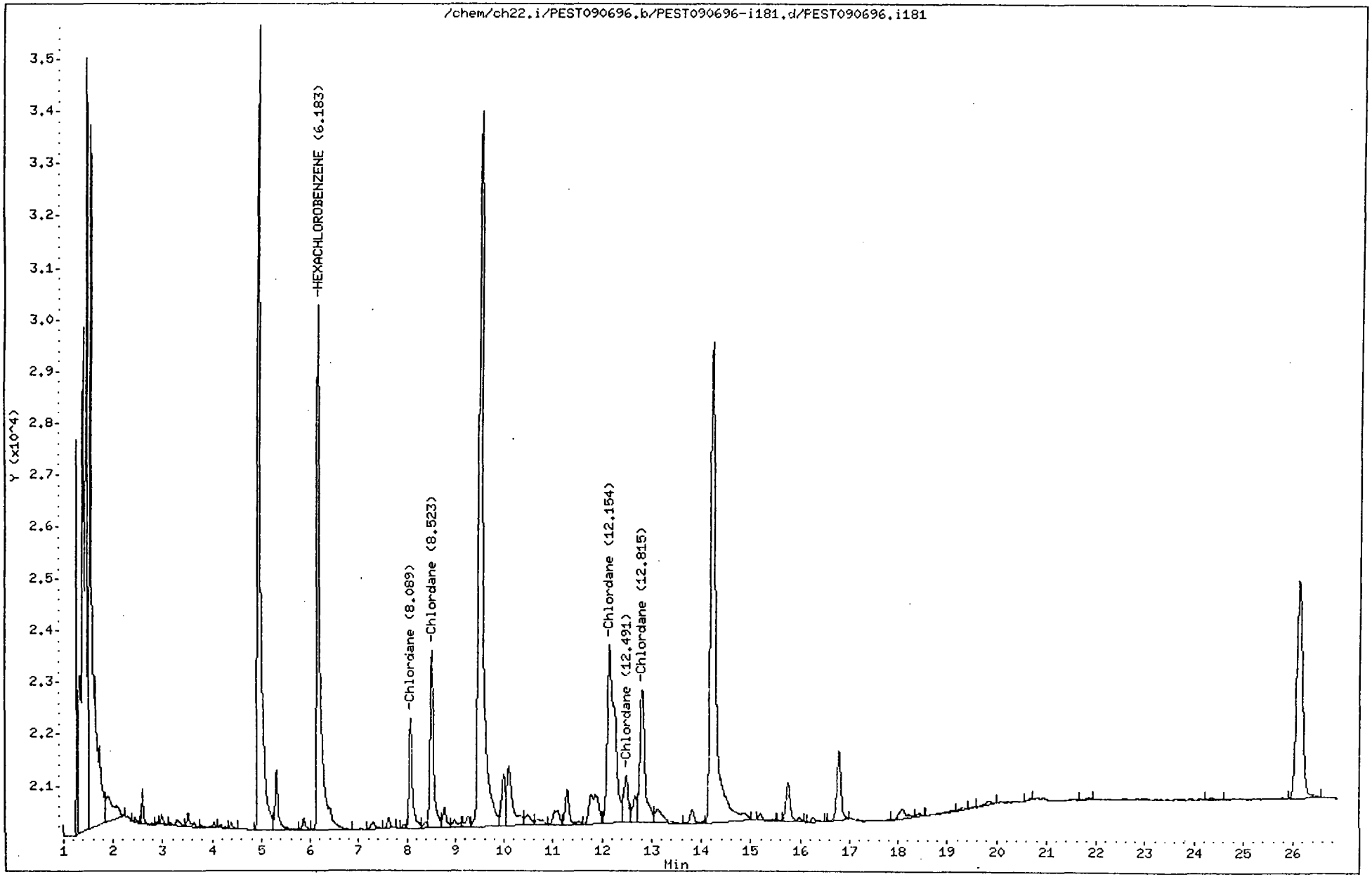
Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53

530



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i191.d
Lab Smp Id: PCHLRL5 Client Smp ID: PCHLRL5
Inj Date : 06-SEP-96 22:23:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDE/CHLORDANE MIX L5 #AA904-66-4
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 17:23:36 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCHLR.sub
Target Version: 3.21 Sample Matrix: None
Procesing Host: GC1

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
19 Chlordane				CAS #: 12789-03-6		
8.098	8.098 (0.000)	12831	0.375	0.357		100.00
8.532	8.532 (0.000)	20611	0.375	0.347	0.00- 0.00	160.63
12.168	12.168 (0.000)	43502	0.375	0.363	0.00- 0.00	339.04
12.505	12.505 (0.000)	8018	0.375	0.349	0.00- 0.00	62.49
12.828	12.828 (0.000)	23786	0.375	0.369	0.00- 0.00	185.38
	Average of Peak Amounts =			0.357		
* 2 HEXACHLOROBENZENE				CAS #:		
6.191	6.191 (1.000)	52749	1.00			100.00

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i191.d

Date : 06-SEP-96 22:23:00

Client ID: PCHLRL5

Sample Info: PESTICIDE/CHLORDANE MIX L5 #AA904-66-4

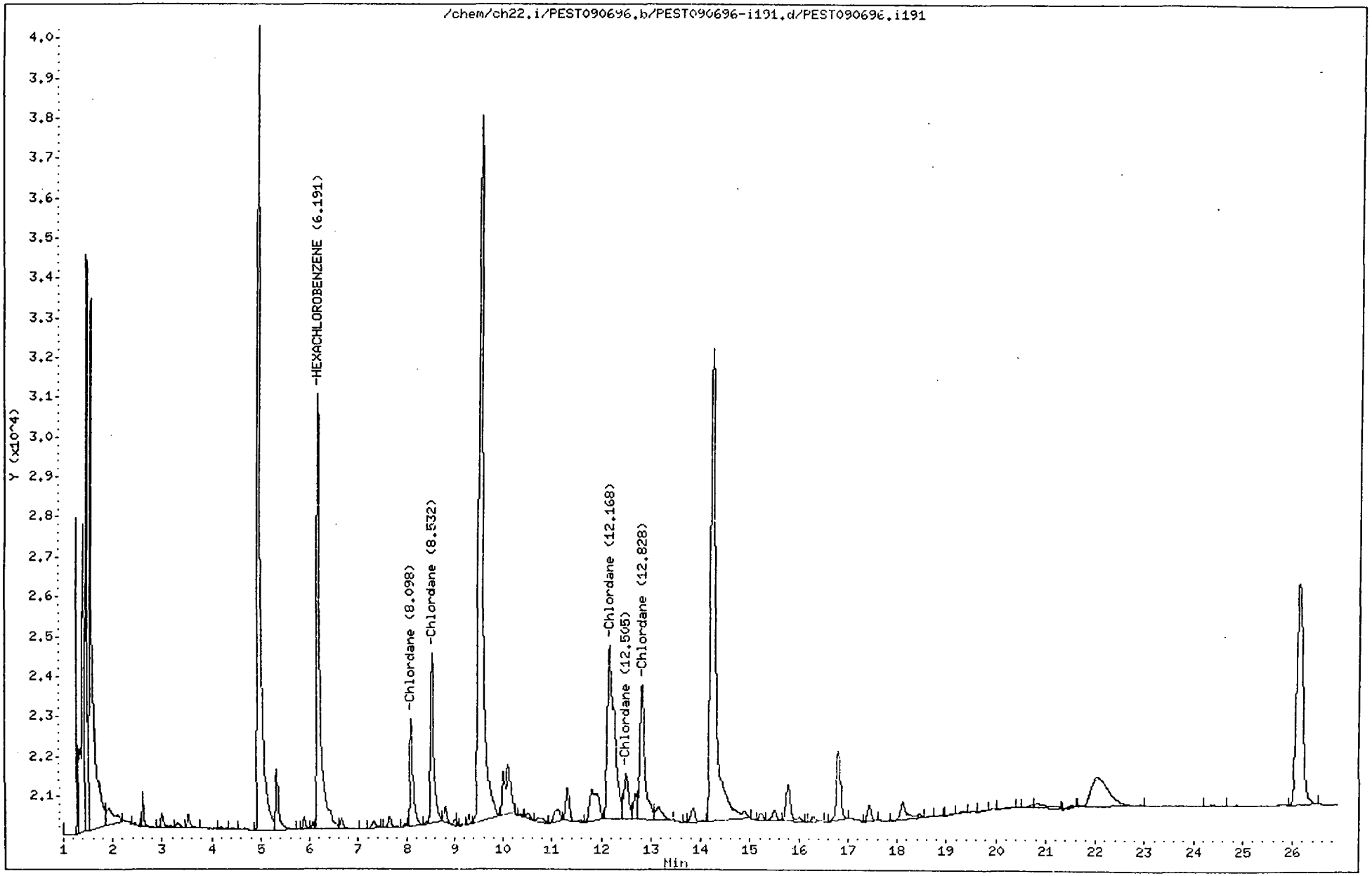
Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53

532



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i201.d
Lab Smp Id: PCHLRL6 Client Smp ID: PCHLRL6
Inj Date : 06-SEP-96 22:55:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDE/CHLORDANE MIX L6 #AA904-66-4
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 17:23:49 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCHLR.sub
Target Version: 3.21 Sample Matrix: None
Procesing Host: GC1

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
19 Chlordane					CAS #: 12789-03-6		
8.093	8.093	(0.000)	25363	0.750	0.751		100.00
8.528	8.528	(0.000)	41137	0.750	0.738	0.00- 0.00	162.19
12.163	12.163	(0.000)	83932	0.750	0.746	0.00- 0.00	330.92
12.500	12.500	(0.000)	16491	0.750	0.764	0.00- 0.00	65.02
12.828	12.828	(0.000)	45054	0.750	0.744	0.00- 0.00	177.64
	Average of Peak Amounts =				0.748		
* 2 HEXACHLOROBENZENE					CAS #:		
6.196	6.196	(1.000)	49589	1.00			100.00

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i201.d

Date : 06-SEP-96 22:55:00

Client ID: PCHLRL6

Sample Info: PESTICIDE/CHLORDANE MIX L6 #AA904-66-4

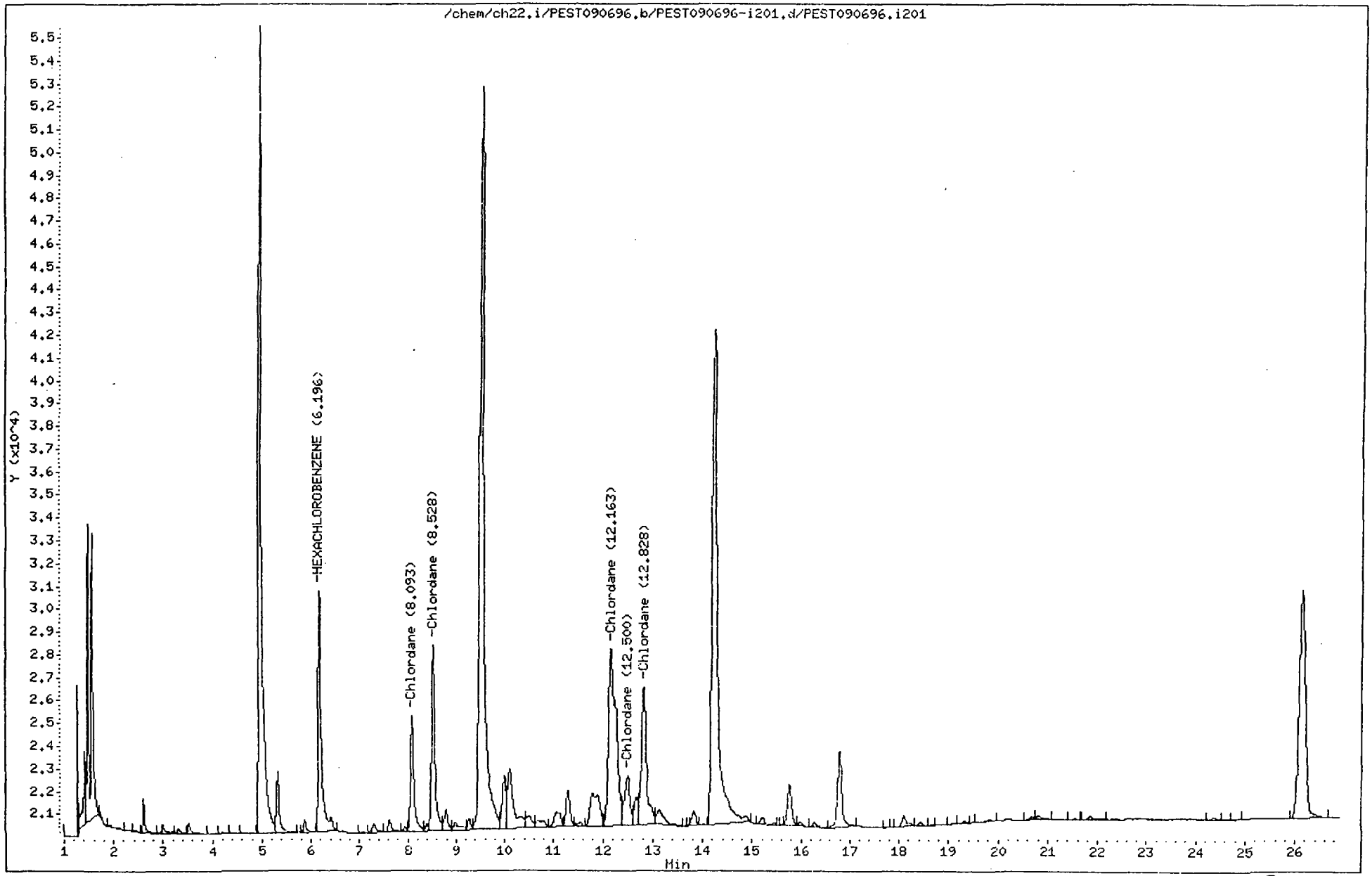
Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53

534



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i221.d
Lab Smp Id: 1660-L1 Client Smp ID: 1660-L1
Inj Date : 06-SEP-96 23:58:00
Operator : MAK Inst ID: ch22.i
Smp Info : AROCHLOR 1660 - 0.03UG/ML #AA904-74-3
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 17:26:32 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.21 Sample Matrix: None
Procesing Host: GC1

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE		RATIO
13 Aroclor 1016				CAS #: 12674-11-2			
7.517	7.517 (0.000)	612	0.0150	0.0172			100.00(M)
8.962	8.962 (0.000)	270	0.0150	0.0128	0.00-	0.00	44.12
9.357	9.357 (0.000)	585	0.0150	0.0205	0.00-	0.00	95.59
10.492	10.492 (0.000)	330	0.0150	0.0146	0.00-	0.00	53.92
	Average of Peak Amounts =			0.0163			
21 Aroclor 1260				CAS #: 11096-82-5			
15.218	15.218 (0.000)	582	0.0150	0.0157			100.00
15.555	15.555 (0.000)	621	0.0150	0.0158	0.00-	0.00	106.70
17.346	17.346 (0.000)	533	0.0150	0.0138	0.00-	0.00	91.58
17.492	17.492 (0.000)	357	0.0150	0.0144	0.00-	0.00	61.34
	Average of Peak Amounts =			0.0149			
* 2 HEXACHLOROBENZENE				CAS #:			
6.178	6.178 (1.000)	49801	1.00				100.00

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i221.d

Date : 06-SEP-96 23:58:00

Client ID: 1660-L1

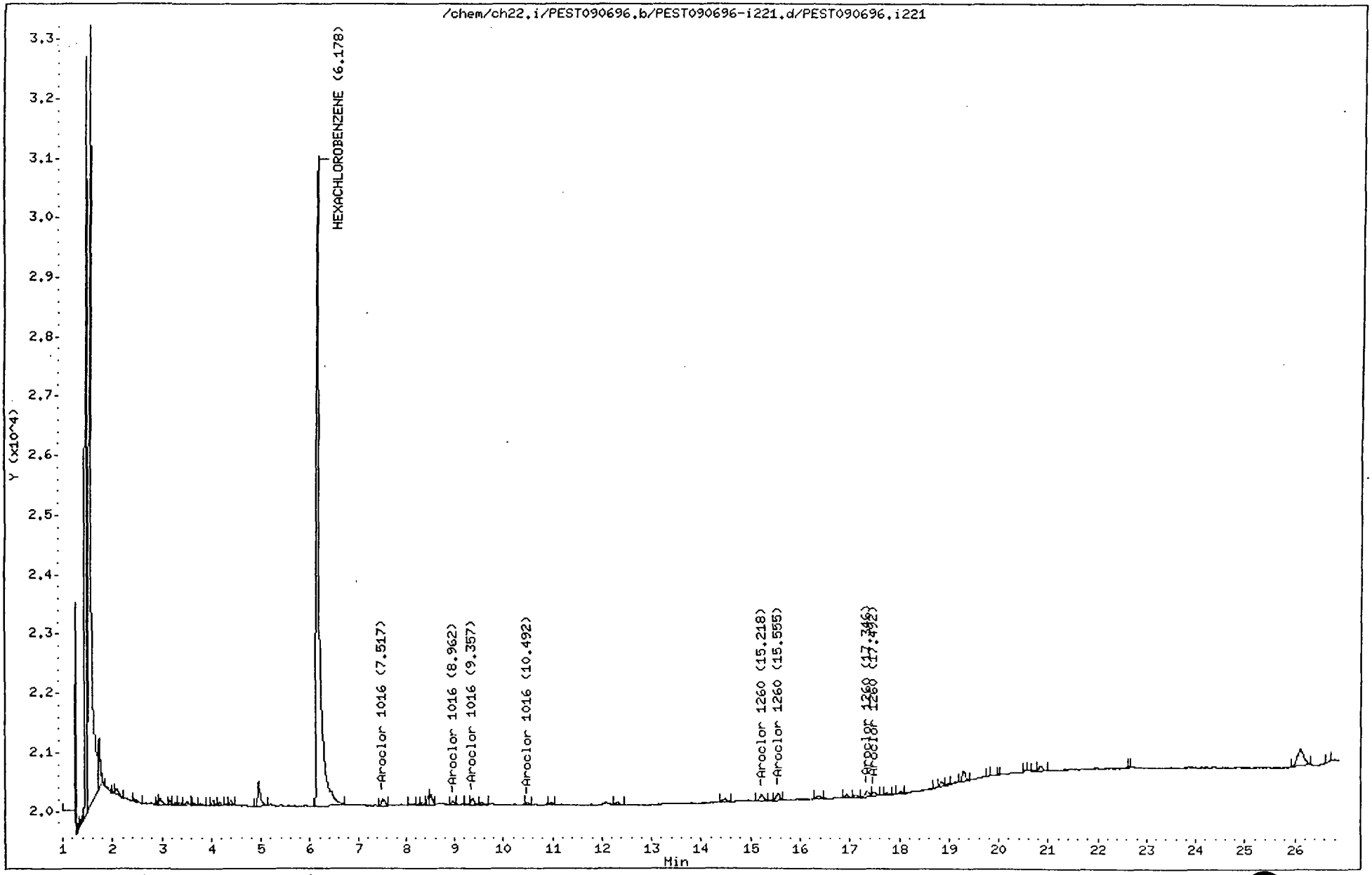
Sample Info: AROCHLOR 1660 - 0.03UG/ML #AA904-74-3

Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i231.d
Lab Smp Id: 1660-L2 Client Smp ID: 1660-L2
Inj Date : 07-SEP-96 00:29:00
Operator : MAK Inst ID: ch22.i
Smp Info : AROCHLOR 1660 - 0.50UG/ML #AA904-74-3
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 17:26:45 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.21 Sample Matrix: None
Procesing Host: GC1

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
13 Aroclor 1016				CAS #: 12674-11-2		
7.530	7.530 (0.000)	8329	0.250	0.250		100.00(M)
8.976	8.976 (0.000)	4032	0.250	0.203	0.00- 0.00	48.41
9.379	9.379 (0.000)	6743	0.250	0.252	0.00- 0.00	80.96
10.510	10.510 (0.000)	5179	0.250	0.244	0.00- 0.00	62.18
	Average of Peak Amounts =			0.237		
21 Aroclor 1260				CAS #: 11096-82-5		
15.231	15.231 (0.000)	8818	0.250	0.254		100.00
15.555	15.555 (0.000)	8932	0.250	0.242	0.00- 0.00	101.29
17.368	17.368 (0.000)	9215	0.250	0.254	0.00- 0.00	104.50
17.496	17.496 (0.000)	5922	0.250	0.255	0.00- 0.00	67.16
	Average of Peak Amounts =			0.251		
* 2 HEXACHLOROBENZENE				CAS #:		
6.187	6.187 (1.000)	46746	1.00			100.00

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i231.d

Date : 07-SEP-96 00:29:00

Client ID: 1660-L2

Sample Info: AROCHLOR 1660 - 0.50UG/ML #AA904-74-3

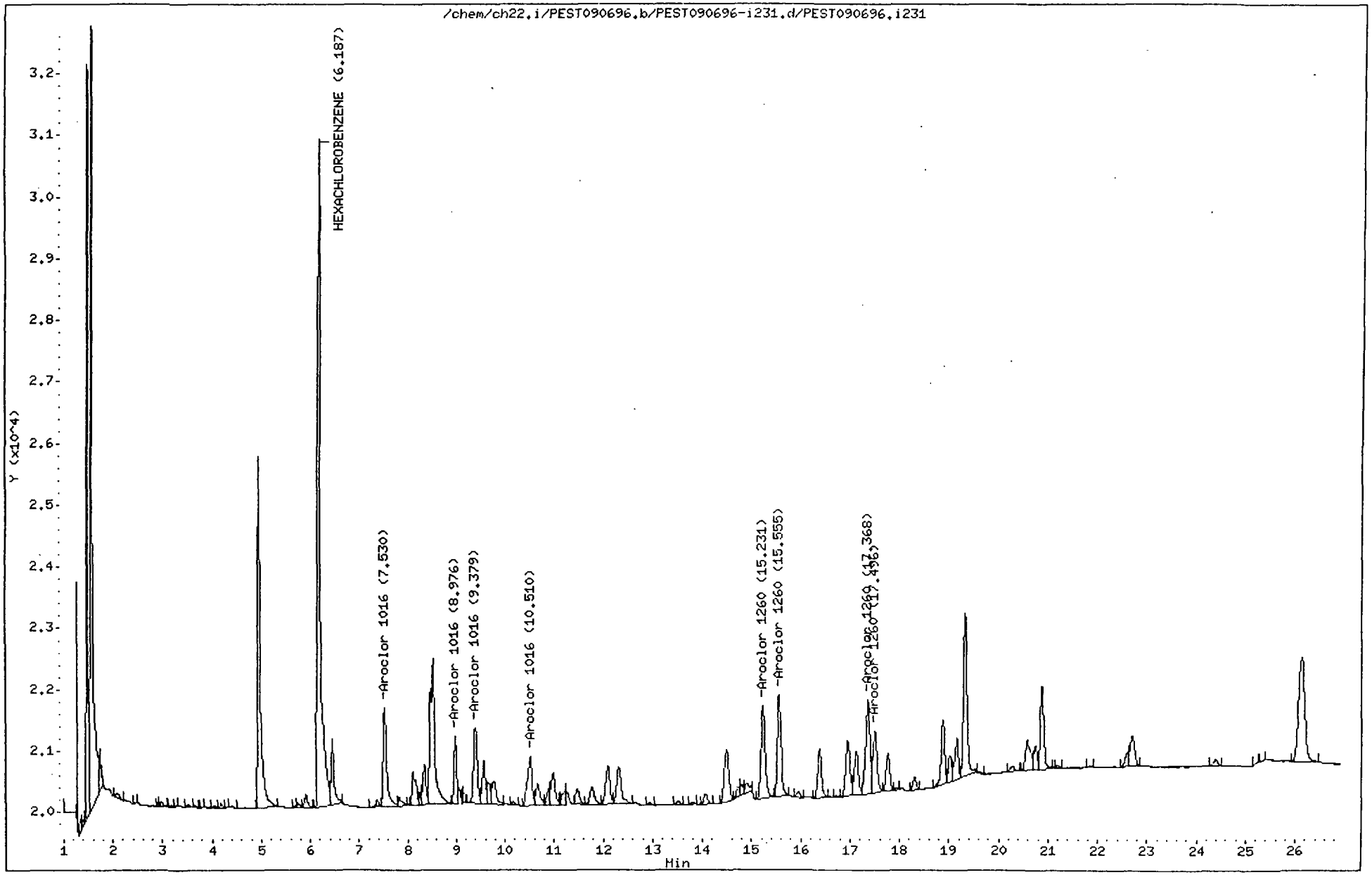
Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53

539



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i241.d
Lab Smp Id: 1660-L3 Client Smp ID: 1660-L3
Inj Date : 07-SEP-96 01:01:00
Operator : MAK Inst ID: ch22.i
Smp Info : AROCHLOR 1660 - 1.00UG/ML #AA904-59-3
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 17:26:57 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.21 Sample Matrix: None
Procesing Host: GC1

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE		RATIO
13 Aroclor 1016					CAS #: 12674-11-2			
7.521	7.521	(0.000)	16503	0.500	0.491			100.00(M)
8.962	8.962	(0.000)	9478	0.500	0.473	0.00-	0.00	57.43
9.370	9.370	(0.000)	13861	0.500	0.513	0.00-	0.00	83.99
10.492	10.492	(0.000)	10707	0.500	0.501	0.00-	0.00	64.88
	Average of Peak Amounts =				0.494			
21 Aroclor 1260					CAS #: 11096-82-5			
15.218	15.218	(0.000)	17748	0.500	0.507			100.00
15.546	15.546	(0.000)	18382	0.500	0.494	0.00-	0.00	103.57
17.359	17.359	(0.000)	19742	0.500	0.538	0.00-	0.00	111.24
17.488	17.488	(0.000)	11767	0.500	0.503	0.00-	0.00	66.30
	Average of Peak Amounts =				0.510			
* 2 HEXACHLOROBENZENE					CAS #:			
6.178	6.178	(1.000)	47149	1.00				100.00

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i241.d

Date : 07-SEP-96 01:01:00

Client ID: 1660-L3

Sample Info: AROCHLOR 1660 - 1.00UG/ML #AA904-59-3

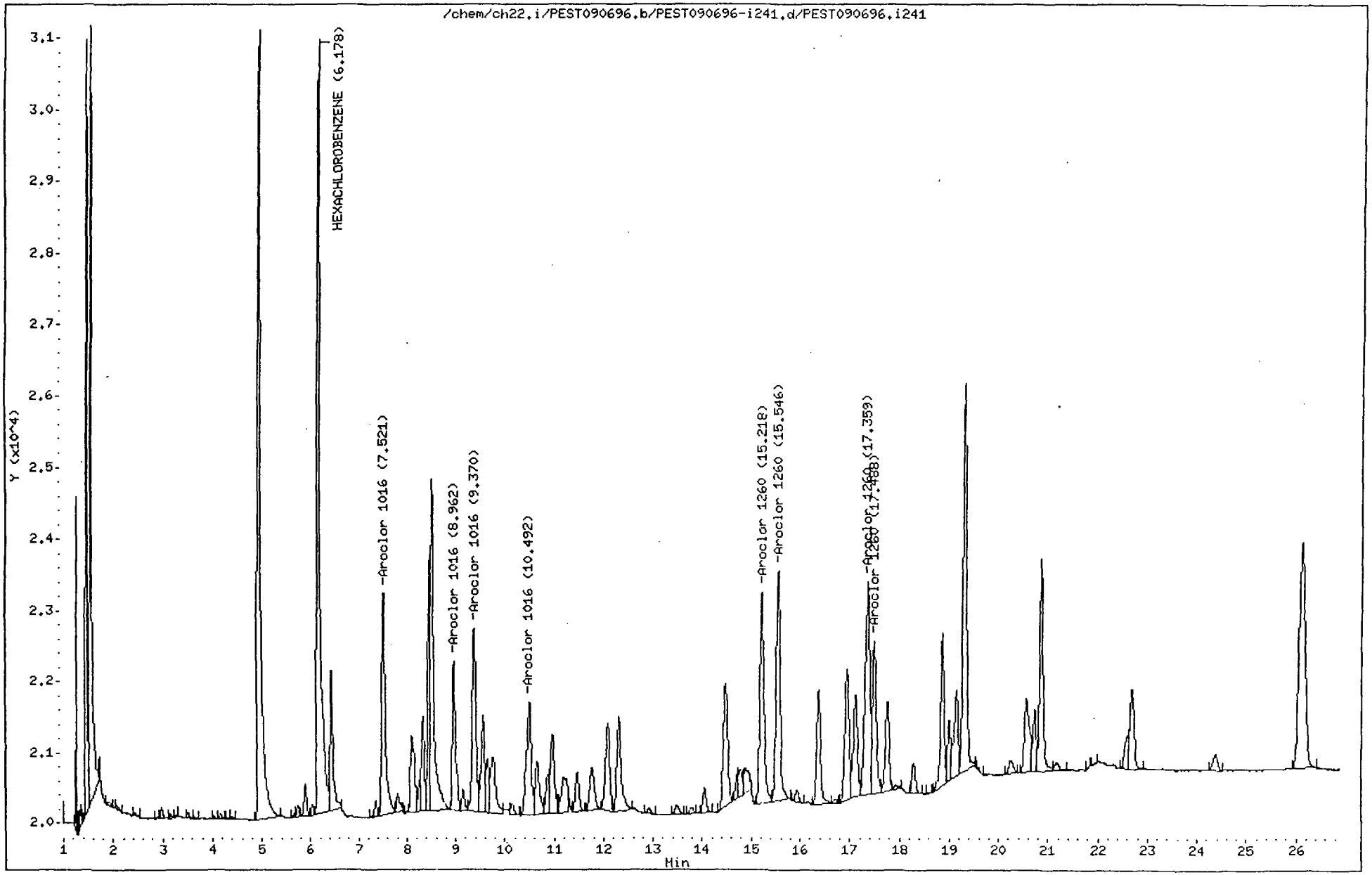
Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53

540



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i251.d
Lab Smp Id: 1660-L4 Client Smp ID: 1660-L4
Inj Date : 07-SEP-96 01:32:00
Operator : MAK Inst ID: ch22.i
Smp Info : AROCHLOR 1660 - 1.50UG/ML #AA904-74-3
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 17:27:10 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.21 Sample Matrix: None
Procesing Host: GC1

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE		RATIO
13 Aroclor 1016					CAS #: 12674-11-2			
7.530	7.530	(0.000)	22265	0.750	0.681			100.00(M)
8.976	8.976	(0.000)	14803	0.750	0.760	0.00-	0.00	66.49
9.388	9.388	(0.000)	19827	0.750	0.755	0.00-	0.00	89.05
10.510	10.510	(0.000)	14796	0.750	0.713	0.00-	0.00	66.45
Average of Peak Amounts =					0.727			
21 Aroclor 1260					CAS #: 11096-82-5			
15.235	15.235	(0.000)	25100	0.750	0.738			100.00
15.572	15.572	(0.000)	27586	0.750	0.763	0.00-	0.00	109.90
17.381	17.381	(0.000)	27100	0.750	0.760	0.00-	0.00	107.97
17.505	17.505	(0.000)	17344	0.750	0.762	0.00-	0.00	69.10
Average of Peak Amounts =					0.756			
* 2 HEXACHLOROBENZENE					CAS #:			
6.191	6.191	(1.000)	45824	1.00				100.00

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i251.d

Date : 07-SEP-96 01:32:00

Client ID: 1660-L4

Sample Info: AROCHLOR 1660 - 1.50UG/ML #AA904-74-3

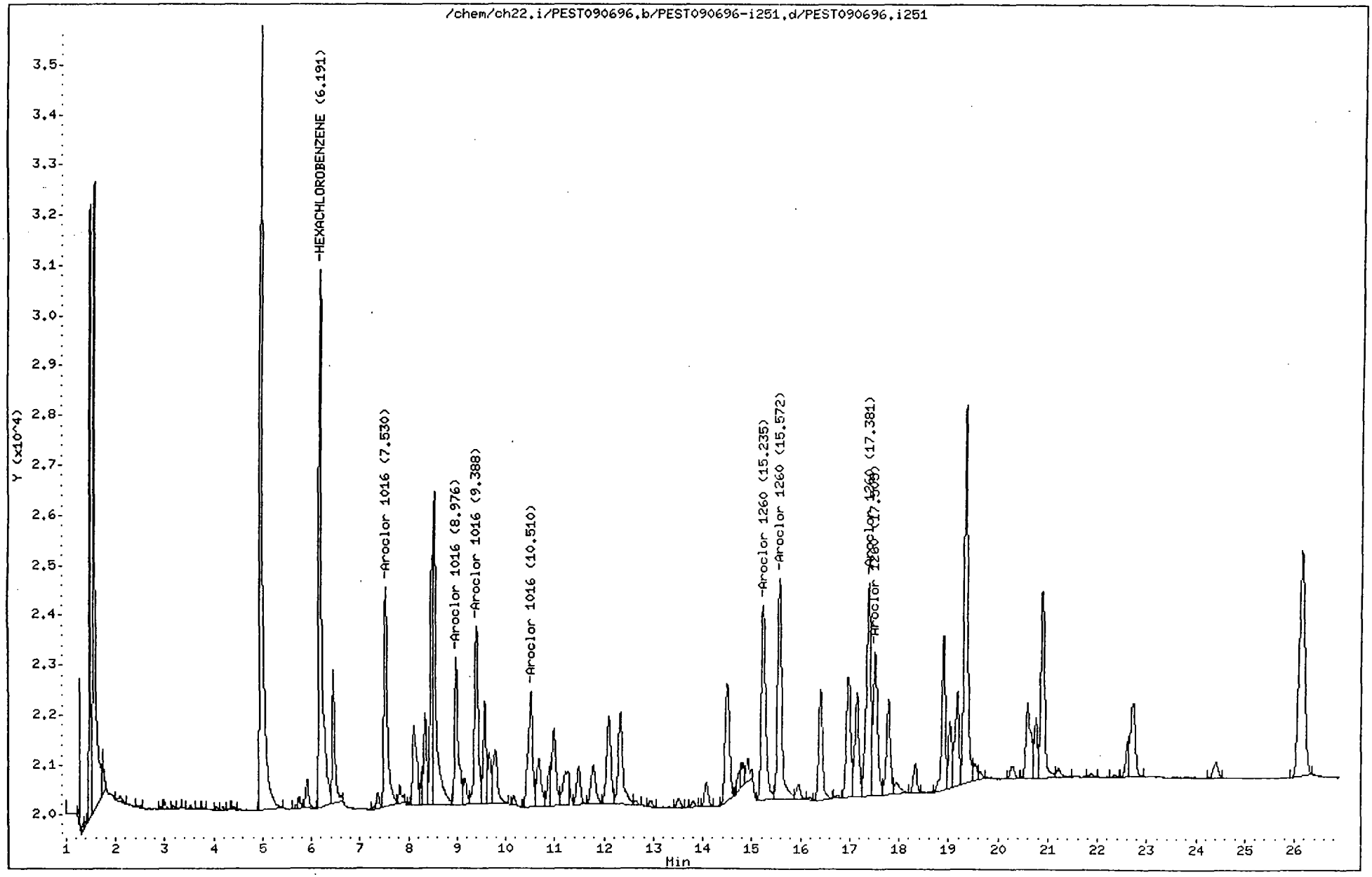
Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53

542



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST090696.b\PEST090696-i261.d
Lab Smp Id: 1660-L5 Client Smp ID: 1660-L5
Inj Date : 07-SEP-96 02:04:00
Operator : MAK Inst ID: ch22.i
Smp Info : AROCHLOR 1660 - 2.50UG/ML #AA904-74-3
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST090696.b\22pest0903.m
Meth Date : 23-Sep-96 17:27:22 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.21 Sample Matrix: None
Procesing Host: GC1

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE		RATIO
13 Aroclor 1016				CAS #: 12674-11-2			
7.517	7.517 (0.000)	37699	1.25	1.30			100.00(M)
8.962	8.962 (0.000)	21911	1.25	1.26	0.00-	0.00	58.12
9.379	9.379 (0.000)	29029	1.25	1.24	0.00-	0.00	77.00
10.496	10.496 (0.000)	23539	1.25	1.27	0.00-	0.00	62.44
	Average of Peak Amounts =			1.27			
21 Aroclor 1260				CAS #: 11096-82-5			
15.222	15.222 (0.000)	37977	1.25	1.25			100.00
15.559	15.559 (0.000)	40130	1.25	1.25	0.00-	0.00	105.67
17.363	17.363 (0.000)	38952	1.25	1.23	0.00-	0.00	102.57
17.483	17.483 (0.000)	25133	1.25	1.24	0.00-	0.00	66.18
	Average of Peak Amounts =			1.24			
* 2 HEXACHLOROBENZENE				CAS #:			
6.178	6.178 (1.000)	40809	1.00				100.00

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch22.i/PEST090696.b/PEST090696-i261.d

Date : 07-SEP-96 02:04:00

Client ID: 1660-L5

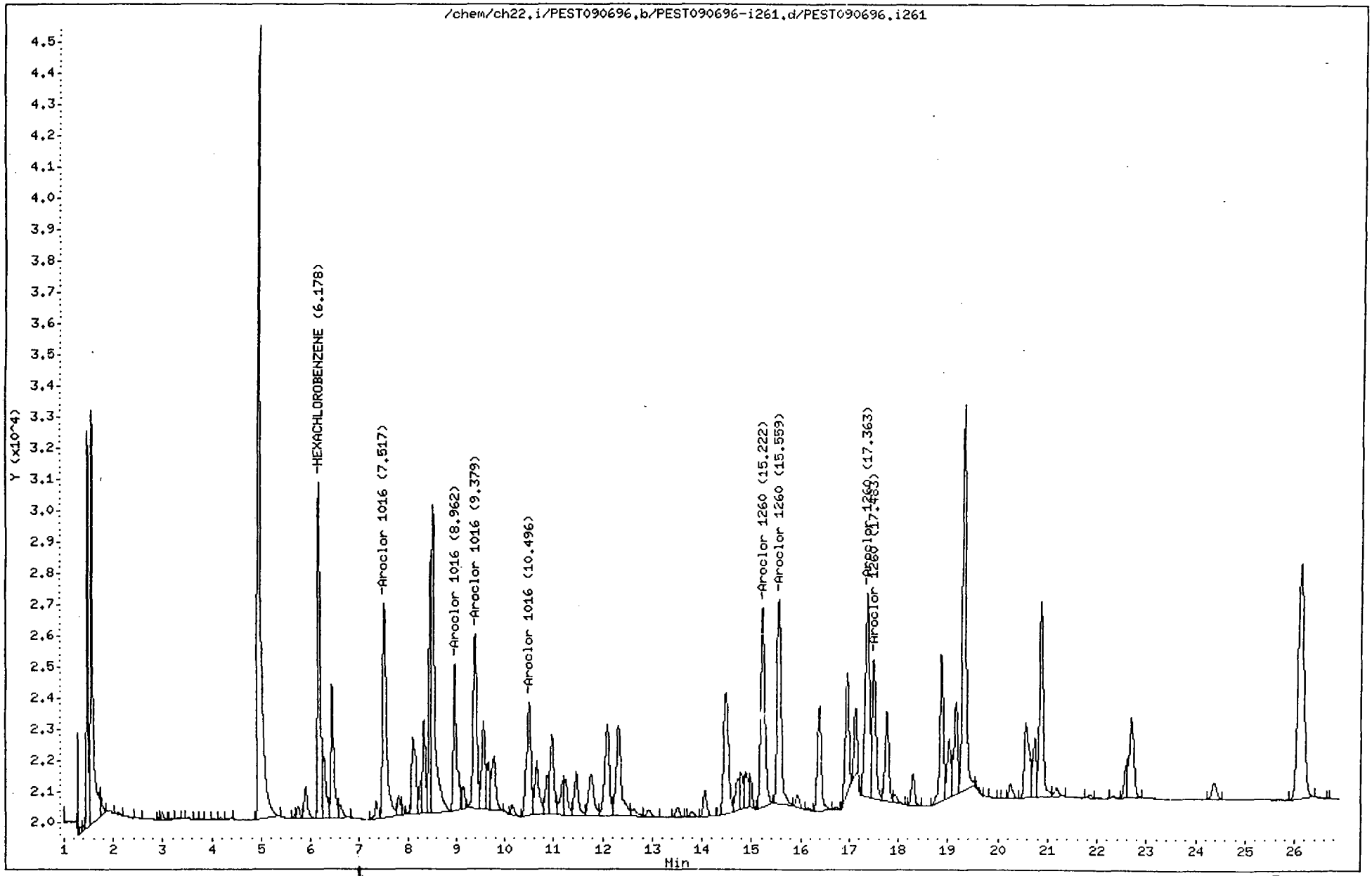
Sample Info: AROCHLOR 1660 - 2.50UG/ML #AA904-74-3

Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53



FORM 7
8080 CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date: 10/01/96 Time: 1046

Lab File ID: PEST100196-I05

COMPOUND	SAMPLE AMOUNT	CAL3 AMOUNT	CURVE	%REC	%REC LIM.
Alpha-BHC	0.0503	0.0500	LINR	100.6	80-120
Beta-BHC	0.0539	0.0500	LINR	107.8	80-120
Delta-BHC	0.0557	0.0500	LINR	111.4	80-120
Gamma-BHC (Lindane)	0.0506	0.0500	LINR	101.2	80-120
Heptachlor	0.0544	0.0500	LINR	108.8	80-120
Aldrin	0.0528	0.0500	LINR	105.6	80-120
Heptachlor epoxide	0.0534	0.0500	LINR	106.8	80-120
Endosulfan I	0.0520	0.0500	LINR	104.0	80-120
Dieldrin	0.0502	0.0500	LINR	100.4	80-120
4,4'-DDE	0.0528	0.0500	LINR	105.6	80-120
Endrin	0.0497	0.0500	LINR	99.4	80-120
Endosulfan II	0.0544	0.0500	LINR	108.8	80-120
4,4'-DDD	0.0549	0.0500	LINR	109.8	80-120
Endosulfan sulfate	0.0516	0.0500	LINR	103.2	80-120
4,4'-DDT	0.0541	0.0500	LINR	108.2	80-120
Methoxychlor	0.0559	0.0500	LINR	111.8	80-120
Endrin ketone	0.0549	0.0500	LINR	109.8	80-120
Endrin aldehyde	0.0592	0.0500	LINR	118.4	80-120
Tetrachloro-m-xylene	0.0504	0.0500	LINR	100.8	80-120
Decachlorobiphenyl	0.0571	0.0500	LINR	114.2	80-120

FORM 7
OTHER CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date: 10/01/96 Time: 1118

Lab File ID: PEST100196-I06

COMPOUND	SAMPLE AMOUNT	0.75 AMOUNT	CURVE	%REC	%REC LIM.
Toxaphene	0.651	0.750	LINR	86.8	75-125

FORM 7
8080 CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date: 10/01/96 Time: 1150

Lab File ID: PEST100196-I07

COMPOUND	SAMPLE AMOUNT	CAL3 AMOUNT	CURVE	%REC	%REC LIM.
Aroclor 1016	0.545	0.500	LINR	109.0	75-125
Aroclor 1260	0.525	0.500	LINR	105.0	75-125

FORM 7
8080 CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date: 10/01/96 Time: 1221

Lab File ID: PEST100196-I08

COMPOUND	SAMPLE AMOUNT	CAL3 AMOUNT	CURVE	%REC	%REC LIM.
Aldrin	0.0494	0.0500	LINR	98.8	80-120
Dieldrin	0.0456	0.0500	LINR	91.2	80-120
Chlordane	0.171	0.150	LINR	114.0	80-120
Tetrachloro-m-xylene	0.0409	0.0500	LINR	81.8	80-120
Decachlorobiphenyl	0.0468	0.0500	LINR	93.6	80-120

FORM 7
8080 CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date: 10/01/96 Time: 1252

Lab File ID: PEST100196-I09

COMPOUND	SAMPLE AMOUNT	CAL3 AMOUNT	CURVE	%REC	%REC LIM.
Isodrin	0.0514	0.0500	LINR	102.8	80-120
Kepone	0.0506	0.0500	LINR	101.2	80-120

FORM 7
8080 CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH22 Calibration Date: 10/01/96 Time: 1839

Lab File ID: PEST100196-I20

COMPOUND	SAMPLE AMOUNT	CAL3 AMOUNT	CURVE	%REC	%REC LIM.	
Alpha-BHC	0.0506	0.0500	LINR	101.2	80-120	
Beta-BHC	0.0488	0.0500	LINR	97.6	80-120	
Delta-BHC	0.0547	0.0500	LINR	109.4	80-120	
Gamma-BHC (Lindane)	0.0505	0.0500	LINR	101.0	80-120	
Heptachlor	0.0535	0.0500	LINR	107.0	80-120	
Aldrin	0.0530	0.0500	LINR	106.0	80-120	
Heptachlor epoxide	0.0522	0.0500	LINR	104.4	80-120	
Endosulfan I	0.0520	0.0500	LINR	104.0	80-120	
Dieldrin	0.0509	0.0500	LINR	101.8	80-120	
4,4'-DDE	0.0523	0.0500	LINR	104.6	80-120	
Endrin	0.0500	0.0500	LINR	100.0	80-120	
Endosulfan II	0.0526	0.0500	LINR	105.2	80-120	
4,4'-DDD	0.0528	0.0500	LINR	105.6	80-120	
Endosulfan sulfate	0.0512	0.0500	LINR	102.4	80-120	
4,4'-DDT	0.0534	0.0500	LINR	106.8	80-120	
Methoxychlor	0.0566	0.0500	LINR	113.2	80-120	
Endrin ketone	0.0554	0.0500	LINR	110.8	80-120	
Endrin aldehyde	0.0584	0.0500	LINR	116.8	80-120	
Tetrachloro-m-xylene	0.0499	0.0500	LINR	99.8	80-120	
Decachlorobiphenyl	0.0612	0.0500	LINR	122.4	80-120	<-

FORM 7
8080 CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH24 Calibration Date: 10/01/96 Time: 1046

Lab File ID: PEST100196-I05

COMPOUND	SAMPLE AMOUNT	0.05 AMOUNT	CURVE	%REC	%REC LIM.
Alpha-BHC	0.0440	0.0500	LINR	88.0	80-120
Beta-BHC	0.0463	0.0500	LINR	92.6	80-120
Delta-BHC	0.0478	0.0500	LINR	95.6	80-120
Gamma-BHC (Lindane)	0.0418	0.0500	LINR	83.6	80-120
Heptachlor	0.0450	0.0500	LINR	90.0	80-120
Aldrin	0.0452	0.0500	LINR	90.4	80-120
Heptachlor epoxide	0.0456	0.0500	LINR	91.2	80-120
Endosulfan I	0.0445	0.0500	LINR	89.0	80-120
Dieldrin	0.0486	0.0500	LINR	97.2	80-120
4,4'-DDE	0.0459	0.0500	LINR	91.8	80-120
Endrin	0.0456	0.0500	LINR	91.2	80-120
Endosulfan II	0.0519	0.0500	LINR	103.8	80-120
4,4'-DDD	0.0515	0.0500	LINR	103.0	80-120
Endosulfan sulf./Methoxychlo	0.0949	0.100	LINR	94.9	80-120
4,4'-DDT	0.0489	0.0500	LINR	97.8	80-120
Endrin ketone	0.0523	0.0500	LINR	104.6	80-120
Endrin aldehyde	0.0418	0.0500	LINR	83.6	80-120
Tetrachloro-m-xylene	0.0469	0.0500	LINR	93.8	80-120
Decachlorobiphenyl	0.0553	0.0500	LINR	110.6	80-120

FORM 7
8080 CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

Instrument ID: CH24 Calibration Date: 10/01/96 Time: 1839

Lab File ID: PEST100196-I20

COMPOUND	SAMPLE AMOUNT	0.05 AMOUNT	CURVE	%REC	%REC LIM.
Alpha-BHC	0.0424	0.0500	LINR	84.8	80-120
Beta-BHC	0.0513	0.0500	LINR	102.6	80-120
Delta-BHC	0.0481	0.0500	LINR	96.2	80-120
Gamma-BHC (Lindane)	0.0456	0.0500	LINR	91.2	80-120
Heptachlor	0.0464	0.0500	LINR	92.8	80-120
Aldrin	0.0457	0.0500	LINR	91.4	80-120
Heptachlor epoxide	0.0418	0.0500	LINR	83.6	80-120
Endosulfan I	0.0459	0.0500	LINR	91.8	80-120
Dieldrin	0.0480	0.0500	LINR	96.0	80-120
4,4'-DDE	0.0459	0.0500	LINR	91.8	80-120
Endrin	0.0456	0.0500	LINR	91.2	80-120
Endosulfan II	0.0490	0.0500	LINR	98.0	80-120
4,4'-DDD	0.0498	0.0500	LINR	99.6	80-120
Endosulfan sulf./Methoxychlo	0.0825	0.100	LINR	82.5	80-120
4,4'-DDT	0.0481	0.0500	LINR	96.2	80-120
Endrin ketone	0.0437	0.0500	LINR	87.4	80-120
Endrin aldehyde	0.0450	0.0500	LINR	90.0	80-120
Tetrachloro-m-xylene	0.0445	0.0500	LINR	89.0	80-120
Decachlorobiphenyl	0.0559	0.0500	LINR	111.8	80-120

Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST100196.b\PEST100196-i051.d
Lab Smp Id: PESTCAL-1 Client Smp ID: PESTCAL-1
Inj Date : 01-OCT-96 10:46:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDES STD 0.100UG/ML AA904-73-2
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST100196.b\22pest0903.m
Meth Date : 27-Oct-96 13:38:49 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 Alpha-BHC	6.586	6.590	(1.063)	57862	0.0500	0.0503
6 Beta-BHC	7.752	7.752	(1.251)	26766	0.0500	0.0539(M)
9 Delta-BHC	8.785	8.794	(1.418)	39625	0.0500	0.0557(M)
5 Gamma-BHC (Lindane)	7.615	7.619	(1.229)	40577	0.0500	0.0506
8 Heptachlor	8.532	8.541	(1.377)	46313	0.0500	0.0544
11 Aldrin	9.525	9.534	(1.537)	47154	0.0500	0.0528
15 Heptachlor epoxide	11.489	11.498	(1.854)	41927	0.0500	0.0534
16 Endosulfan I	12.979	12.979	(2.095)	36290	0.0500	0.0520
20 Dieldrin	14.242	14.247	(2.299)	38659	0.0500	0.0502
18 4,4'-DDE	13.843	13.852	(2.234)	34679	0.0500	0.0528
22 Endrin	15.750	15.754	(2.542)	29315	0.0500	0.0497
25 Endosulfan II	16.468	16.481	(2.658)	27021	0.0500	0.0544(M)
24 4,4'-DDD	16.144	16.153	(2.606)	26855	0.0500	0.0549
29 Endosulfan sulfate	18.303	18.308	(2.954)	23791	0.0500	0.0516
27 4,4'-DDT	17.412	17.426	(2.810)	27771	0.0500	0.0541
30 Methoxychlor	20.507	20.511	(3.310)	12648	0.0500	0.0559
31 Endrin ketone	20.954	20.977	(3.382)	26625	0.0500	0.0549
28 Endrin aldehyde	17.825	17.833	(2.877)	20017	0.0500	0.0592(M)
$ 1 Tetrachloro-m-xylene	4.977	4.977	(0.803)	41122	0.0500	0.0504
* 2 HEXACHLOROBENZENE	6.196	6.191	(1.000)	44550	1.00	
$ 32 Decachlorobiphenyl	26.133	26.150	(4.218)	27514	0.0500	0.0571

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch22.i/PEST100196.b/PEST100196-i051.d

Date : 01-OCT-96 10:46:00

Client ID: PESTCAL-1

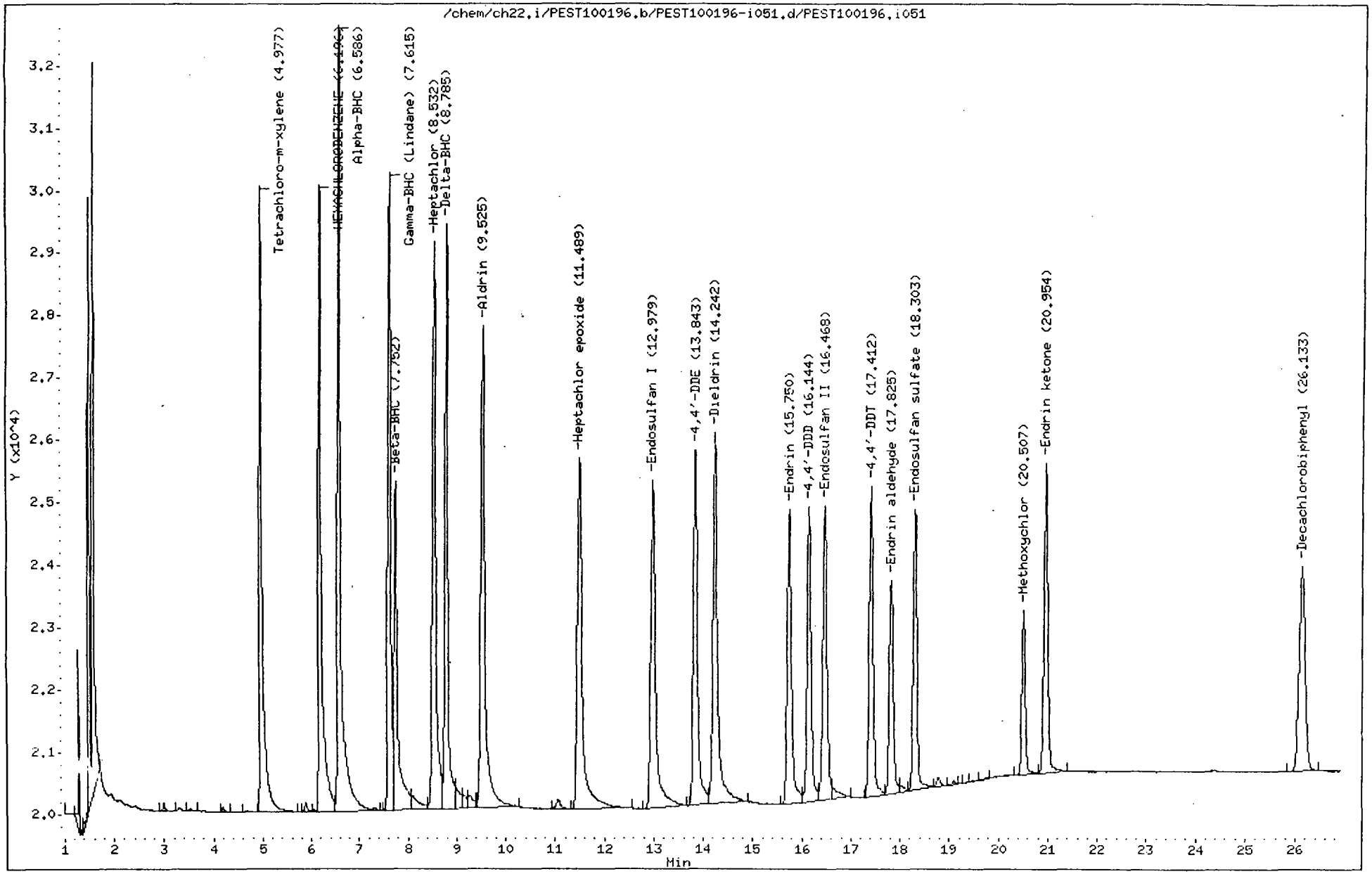
Sample Info: PESTICIDES STD 0.100UG/ML AA904-73-2

Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch24.i\PEST100196.b\PEST100196-i051.d
Lab Smp Id: PESTCAL-1 Client Smp ID: PESTCAL-1
Inj Date : 01-OCT-96 10:46:00
Operator : MAKOWALSKI Inst ID: ch24.i
Smp Info : PESTICIDES STD 0.100UG/ML AA904-73-2
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch24.i\PEST100196.b\24pest0906.m
Meth Date : 27-Oct-96 13:52:03 Quant Type: ISTD
Cal Date : 06-SEP-96 16:05:00 Cal File: PEST090696-i071.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 Alpha-BHC	6.353	6.353	(1.166)	579416	0.0500	0.0440(M)
9 Beta-BHC	8.969	8.969	(1.646)	172782	0.0500	0.0463
11 Delta-BHC	9.784	9.776	(1.796)	389936	0.0500	0.0478(M)
5 Gamma-BHC (Lindane)	7.297	7.297	(1.339)	473320	0.0500	0.0418(M)
7 Heptachlor	7.927	7.922	(1.455)	506418	0.0500	0.0450
8 Aldrin	8.676	8.676	(1.592)	450996	0.0500	0.0452
13 Heptachlor epoxide	10.587	10.578	(1.943)	396841	0.0500	0.0456(M)
15 Endosulfan I	11.682	11.660	(2.144)	341903	0.0500	0.0445
17 Dieldrin	13.065	13.056	(2.398)	370759	0.0500	0.0486
16 4,4'-DDE	12.342	12.334	(2.265)	341476	0.0500	0.0459
19 Endrin	13.885	13.881	(2.548)	296621	0.0500	0.0456
23 Endosulfan II	15.645	15.641	(2.871)	263323	0.0500	0.0519
21 4,4'-DDD	15.357	15.353	(2.819)	255047	0.0500	0.0515
24 4,4'-DDT	16.062	16.062	(2.948)	275926	0.0500	0.0489
28 Endrin ketone	19.666	19.653	(3.609)	273460	0.0500	0.0523
26 Endrin aldehyde	17.157	17.130	(3.149)	135073	0.0500	0.0418(M)
$ 1 Tetrachloro-m-xylene	4.540	4.535	(0.833)	444352	0.0500	0.0469
* 2 HEXACHLOROBENZENE	5.449	5.449	(1.000)	528826	1.00	
$ 29 Decachlorobiphenyl	22.561	22.539	(4.141)	268951	0.0500	0.0553
27 Endosulfan sulf./Methoxychlor	18.323	18.305	(3.363)	313027	0.100	0.0949

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch24.i/PEST100196.b/PEST100196-i051.d

Date : 01-OCT-96 10:46:00

Client ID: PESTCAL-1

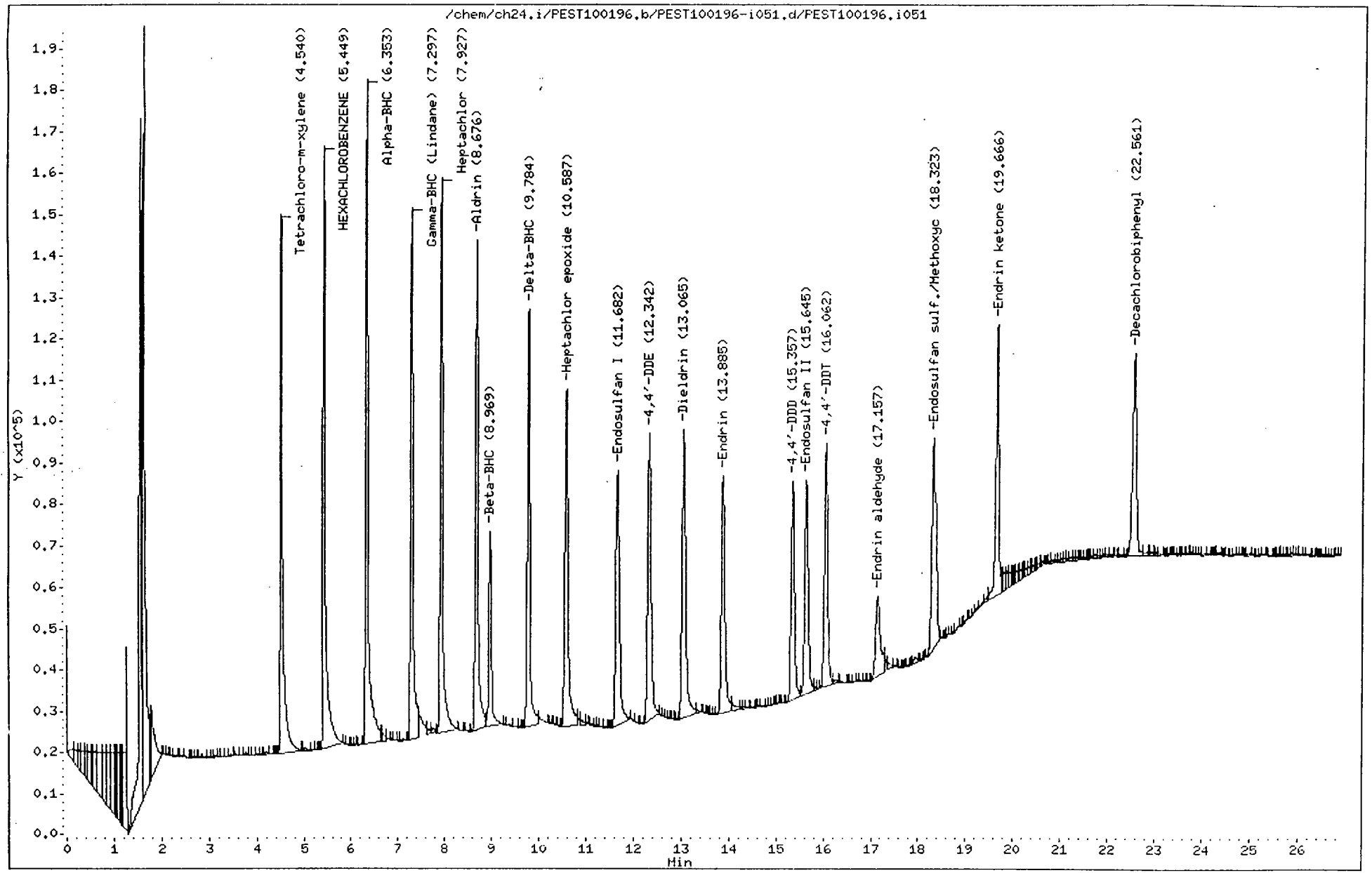
Sample Info: PESTICIDES STD 0.100UG/ML AA904-73-2

Column phase: DB-1701

Instrument: ch24.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch22.i\PEST100196.b\PEST100196-i061.d
Lab Smp Id: TOXCAL-1 Client Smp ID: TOXCAL-1
Inj Date : 01-OCT-96 11:18:00
Operator : MAK Inst ID: ch22.i
Smp Info : TOXAPHENE CAL STD 1.50UG/ML AA904-69-
Misc Info :
Comment :
Method : \chem\ch22.i\PEST100196.b\22tox090696.m
Meth Date : 27-Oct-96 13:41:29 Quant Type: ISTD
Cal Date : 06-SEP-96 19:14:00 Cal File: PEST090696-i131.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
S 1 Toxaphene	14.500-21.500			200730	0.750	0.651
* 2 HEXACHLOROBENZENE	6.191	6.196	(1.000)	44433	1.000	

Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST100196.b\PEST100196-i071.d
Lab Smp Id: 1660-1 Client Smp ID: 1660-1
Inj Date : 01-OCT-96 11:50:00
Operator : MAK Inst ID: ch22.i
Smp Info : AROCHLOR 1660 - 1.00UG/ML #AA904-59-3
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST100196.b\22pest0903.m
Meth Date : 27-Oct-96 13:38:49 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.21 Sample Matrix: None
Processing Host: GC1

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
13 Aroclor 1016				CAS #: 12674-11-2		
7.526	7.530 (1.216)	15625	0.500	0.497		100.00
8.967	8.976 (1.449)	12360	0.500	0.660	0.00- 0.00	79.10
9.379	9.388 (1.516)	13657	0.500	0.541	0.00- 0.00	87.40
10.505	10.510 (1.698)	9618	0.500	0.482	0.00- 0.00	61.56
	Average of Peak Amounts =			0.545		
21 Aroclor 1260				CAS #: 11096-82-5		
15.227	15.235 (2.461)	16825	0.500	0.514		100.00
15.559	15.572 (2.515)	18778	0.500	0.540	0.00- 0.00	111.61
17.359	17.381 (2.806)	17958	0.500	0.524	0.00- 0.00	106.73
17.501	17.505 (2.829)	11454	0.500	0.523	0.00- 0.00	68.08
	Average of Peak Amounts =			0.525		
* 2 HEXACHLOROBENZENE				CAS #:		
6.187	6.191 (1.000)	44073	1.00			100.00

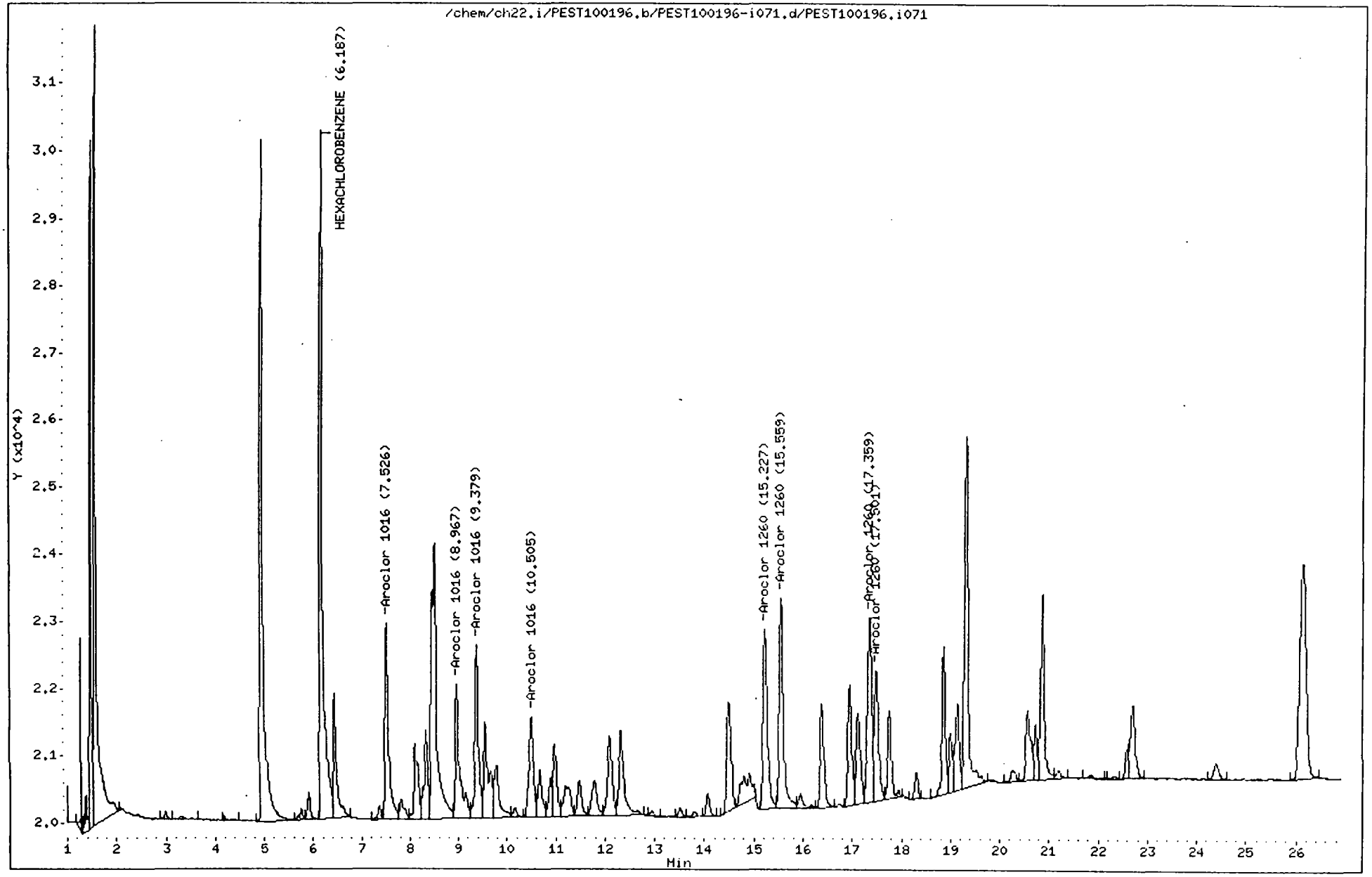
Data File: /chem/ch22.i/PEST100196.b/PEST100196-i071.d
Date : 01-OCT-96 11:50:00
Client ID: 1660-1
Sample Info: AROCHLOR 1660 - 1.00UG/ML #AA904-59-3

Column phase: DB-608

Instrument: ch22.i

Operator: MAK
Column diameter: 0.53

559



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST100196.b\PEST100196-i081.d
Lab Smp Id: PCHLR-1 Client Smp ID: PCHLR-1
Inj Date : 01-OCT-96 12:21:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDE/CHLORDANE MIX L3 #AA904-78-3
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST100196.b\22pest0903.m
Meth Date : 27-Oct-96 13:38:49 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCHLR.sub
Target Version: 3.21 Sample Matrix: None
Processing Host: GC1

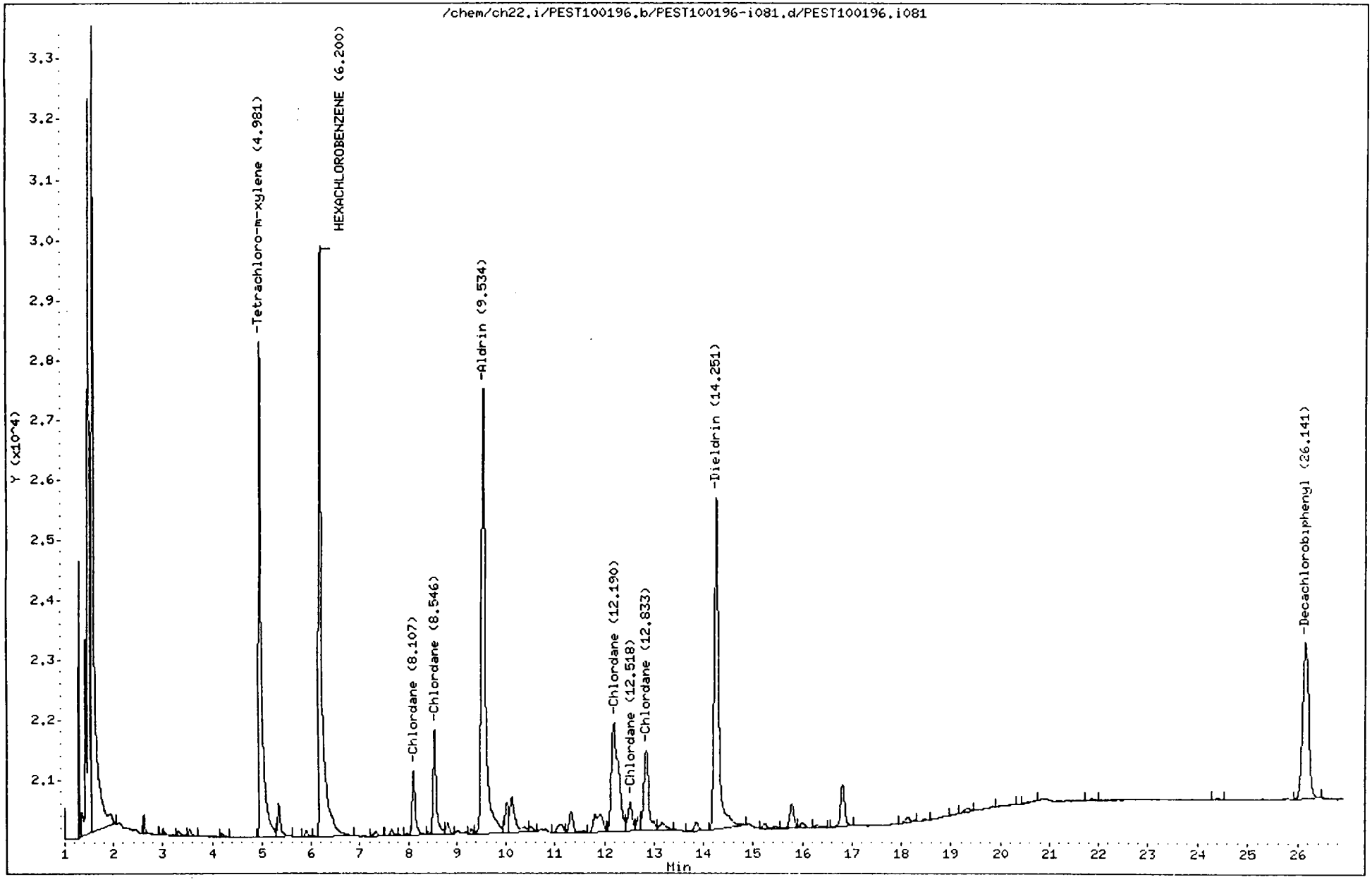
RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
19 Chlordane				CAS #: 12789-03-6		
8.107	8.093 (1.307)	4977	0.150	0.165		100.00
8.546	8.528 (1.378)	8683	0.150	0.174	0.00- 0.00	174.46
12.190	12.163 (1.966)	18420	0.150	0.183	0.00- 0.00	370.10
12.518	12.500 (2.019)	3031	0.150	0.157	0.00- 0.00	60.90
12.833	12.828 (2.070)	9450	0.150	0.175	0.00- 0.00	189.87
	Average of Peak Amounts =			0.171		
* 2 HEXACHLOROBENZENE				CAS #:		
6.200	6.191 (1.000)	44269	1.00			100.00
$ 1 Tetrachloro-m-xylene				CAS #: 877-09-8		
4.981	4.977 (0.803)	33178	0.0500	0.0409		100.00
11 Aldrin				CAS #: 309-00-2		
9.534	9.534 (1.538)	43817	0.0500	0.0494		100.00
20 Dieldrin				CAS #: 60-57-1		
14.251	14.247 (2.298)	34888	0.0500	0.0456		100.00
$ 32 Decachlorobiphenyl				CAS #: 2051-24-3		
26.141	26.150 (4.216)	22403	0.0500	0.0468		100.00

Data File: /chem/ch22.i/PEST100196.b/PEST100196-i081.d
Date : 01-OCT-96 12:21:00
Client ID: PCHLR-1
Sample Info: PESTICIDE/CHLORDANE MIX L3 #AA904-78-3

Column phase: DB-608

Instrument: ch22.i

Operator: HAK
Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST100196.b\PEST100196-i091.d
Lab Smp Id: ISO-KEP-1 Client Smp ID: ISO-KEP-1
Inj Date : 01-OCT-96 12:52:00
Operator : MAK Inst ID: ch22.i
Smp Info : ISODRIN/KEPONE STD 0.100UG/ML AA904-76-
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST100196.b\22pest0903.m
Meth Date : 27-Oct-96 13:38:49 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ISO-KEP.sub
Target Version: 3.21
Processing Host: GC1

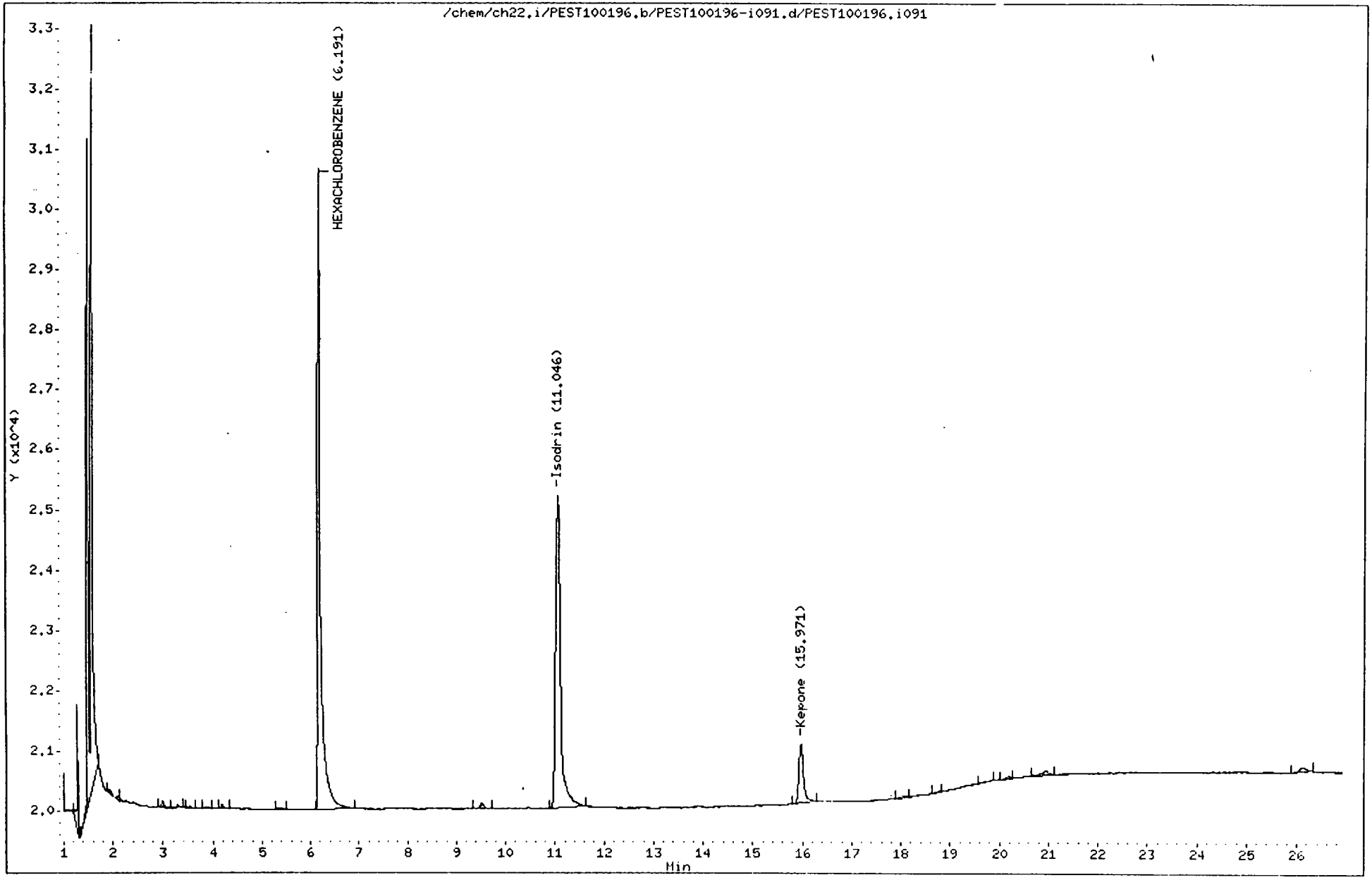
Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
14 Isodrin	11.046	11.064	(1.784)	36670	0.0500	0.0514
23 Kepone	15.971	15.980	(2.580)	6522	0.0500	0.0506
* 2 HEXACHLOROBENZENE	6.191	6.191	(1.000)	46330	1.00	

Data File: /chem/ch22.i/PEST100196.b/PEST100196-i091.d
Date : 01-OCT-96 12:52:00
Client ID: ISO-KEP-1
Sample Info: ISODRIN/KEPONE STD 0.100UG/ML AA904-76-

Column phase: DB-608

Instrument: ch22.i

Operator: MAK
Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST100196.b\PEST100196-i201.d
Lab Smp Id: PESTCAL-2 Client Smp ID: PESTCAL-2
Inj Date : 01-OCT-96 18:39:00
Operator : MAK Inst ID: ch22.i
Smp Info : PESTICIDES STD 0.100UG/ML AA904-73-2
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST100196.b\22pest0903.m
Meth Date : 27-Oct-96 13:38:49 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 Alpha-BHC	6.586	6.590	(1.063)	62158	0.0500	0.0506
6 Beta-BHC	7.752	7.752	(1.251)	25892	0.0500	0.0488(M)
9 Delta-BHC	8.789	8.794	(1.419)	41548	0.0500	0.0547(M)
5 Gamma-BHC (Lindane)	7.615	7.619	(1.229)	43274	0.0500	0.0505(M)
8 Heptachlor	8.532	8.541	(1.377)	48648	0.0500	0.0535
11 Aldrin	9.521	9.534	(1.537)	50481	0.0500	0.0530
15 Heptachlor epoxide	11.480	11.498	(1.853)	43831	0.0500	0.0522
16 Endosulfan I	12.974	12.979	(2.094)	38791	0.0500	0.0520
20 Dieldrin	14.229	14.247	(2.297)	41869	0.0500	0.0509
18 4,4'-DDE	13.839	13.852	(2.234)	36724	0.0500	0.0523
22 Endrin	15.745	15.754	(2.541)	31473	0.0500	0.0500
25 Endosulfan II	16.472	16.481	(2.659)	27929	0.0500	0.0526
24 4,4'-DDD	16.144	16.153	(2.606)	27611	0.0500	0.0528
29 Endosulfan sulfate	18.299	18.308	(2.953)	25180	0.0500	0.0512
27 4,4'-DDT	17.399	17.426	(2.808)	29273	0.0500	0.0534
30 Methoxychlor	20.507	20.511	(3.310)	13673	0.0500	0.0566
31 Endrin ketone	20.946	20.977	(3.381)	28700	0.0500	0.0554
28 Endrin aldehyde	17.820	17.833	(2.876)	21085	0.0500	0.0584(M)
$ 1 Tetrachloro-m-xylene	4.977	4.977	(0.803)	43547	0.0500	0.0499
* 2 HEXACHLOROBENZENE	6.196	6.191	(1.000)	47587	1.00	
$ 32 Decachlorobiphenyl	26.110	26.150	(4.214)	31467	0.0500	0.0612

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch22.i/PEST100196.b/PEST100196-i201.d

Date : 01-OCT-96 18:39:00

Client ID: PESTCAL-2

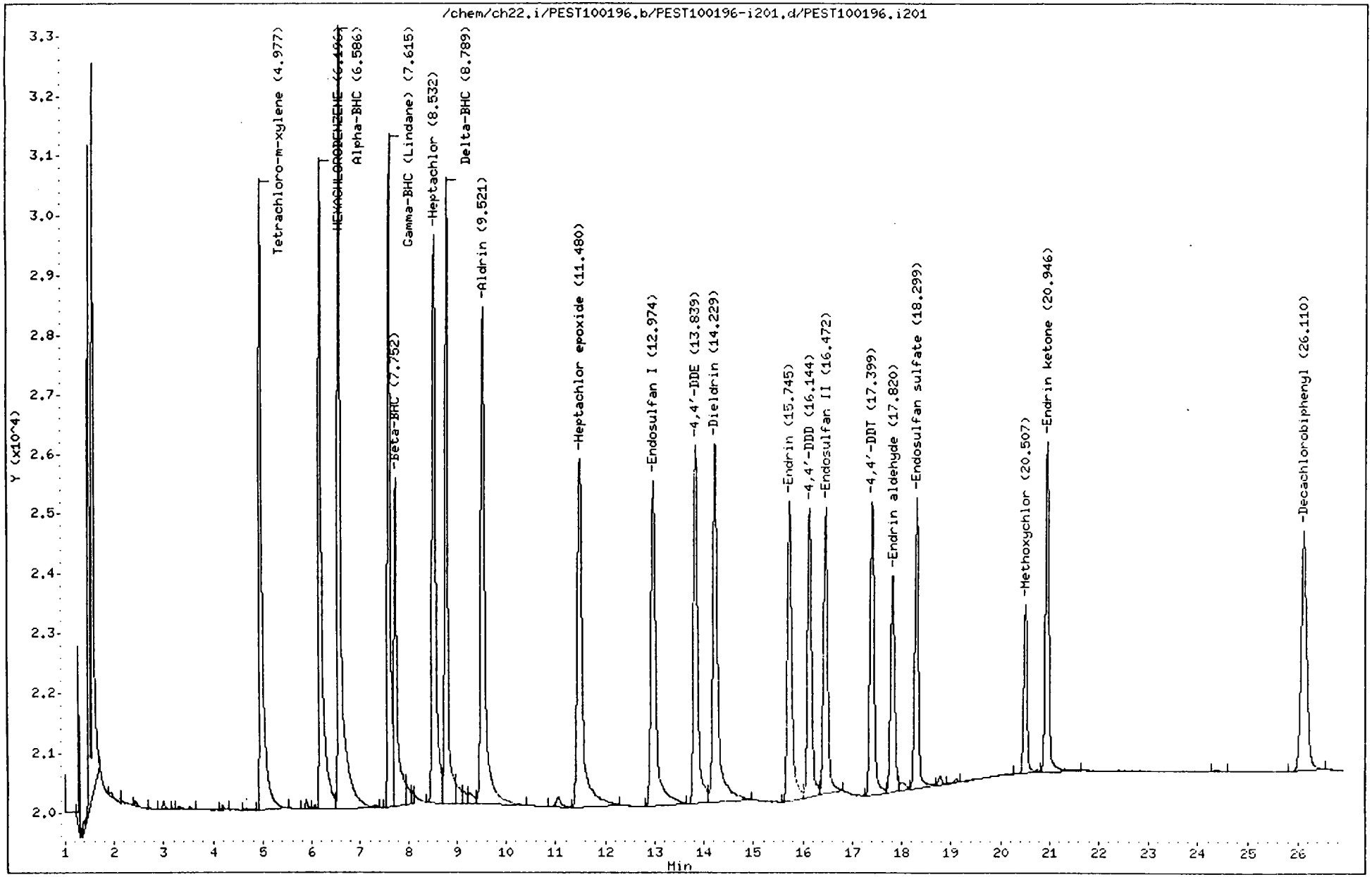
Sample Info: PESTICIDES STD 0.100UG/ML AA904-73-2

Column phase: DB-608

Instrument: ch22.i

Operator: MAK

Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch24.i\PEST100196.b\PEST100196-i201.d
Lab Smp Id: PESTCAL-2 Client Smp ID: PESTCAL-2
Inj Date : 01-OCT-96 18:39:00
Operator : MAKOWALSKI Inst ID: ch24.i
Smp Info : PESTICIDES STD 0.100UG/ML AA904-73-2
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch24.i\PEST100196.b\24pest0906.m
Meth Date : 27-Oct-96 13:52:03 Quant Type: ISTD
Cal Date : 06-SEP-96 16:05:00 Cal File: PEST090696-i071.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
3 Alpha-BHC	6.353	6.353	(1.166)	600835	0.0500	0.0424(M)
9 Beta-BHC	8.969	8.969	(1.646)	205954	0.0500	0.0513
11 Delta-BHC	9.776	9.776	(1.794)	422077	0.0500	0.0481
5 Gamma-BHC (Lindane)	7.297	7.297	(1.339)	555906	0.0500	0.0456
7 Heptachlor	7.922	7.922	(1.454)	561617	0.0500	0.0464
8 Aldrin	8.676	8.676	(1.592)	490513	0.0500	0.0457
13 Heptachlor epoxide	10.578	10.578	(1.941)	391931	0.0500	0.0418
15 Endosulfan I	11.660	11.660	(2.140)	379509	0.0500	0.0459
17 Dieldrin	13.056	13.056	(2.396)	394307	0.0500	0.0480
16 4,4'-DDE	12.334	12.334	(2.264)	367822	0.0500	0.0459
19 Endrin	13.881	13.881	(2.548)	319429	0.0500	0.0456
23 Endosulfan II	15.641	15.641	(2.871)	267677	0.0500	0.0490
21 4,4'-DDD	15.353	15.353	(2.818)	265409	0.0500	0.0498
24 4,4'-DDT	16.062	16.062	(2.948)	292233	0.0500	0.0481
28 Endrin ketone	19.653	19.653	(3.607)	245802	0.0500	0.0437
26 Endrin aldehyde	17.130	17.130	(3.144)	156625	0.0500	0.0450(M)
$ 1 Tetrachloro-m-xylene	4.535	4.535	(0.832)	453581	0.0500	0.0445
* 2 HEXACHLOROBENZENE	5.449	5.449	(1.000)	569146	1.00	
$ 29 Decachlorobiphenyl	22.539	22.539	(4.137)	293017	0.0500	0.0559
27 Endosulfan sulf./Methoxychlor	18.305	18.305	(3.360)	292876	0.100	0.0825(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch24.i/PEST100196.b/PEST100196-i201.d

Date : 01-OCT-96 18:39:00

Client ID: PESTCAL-2

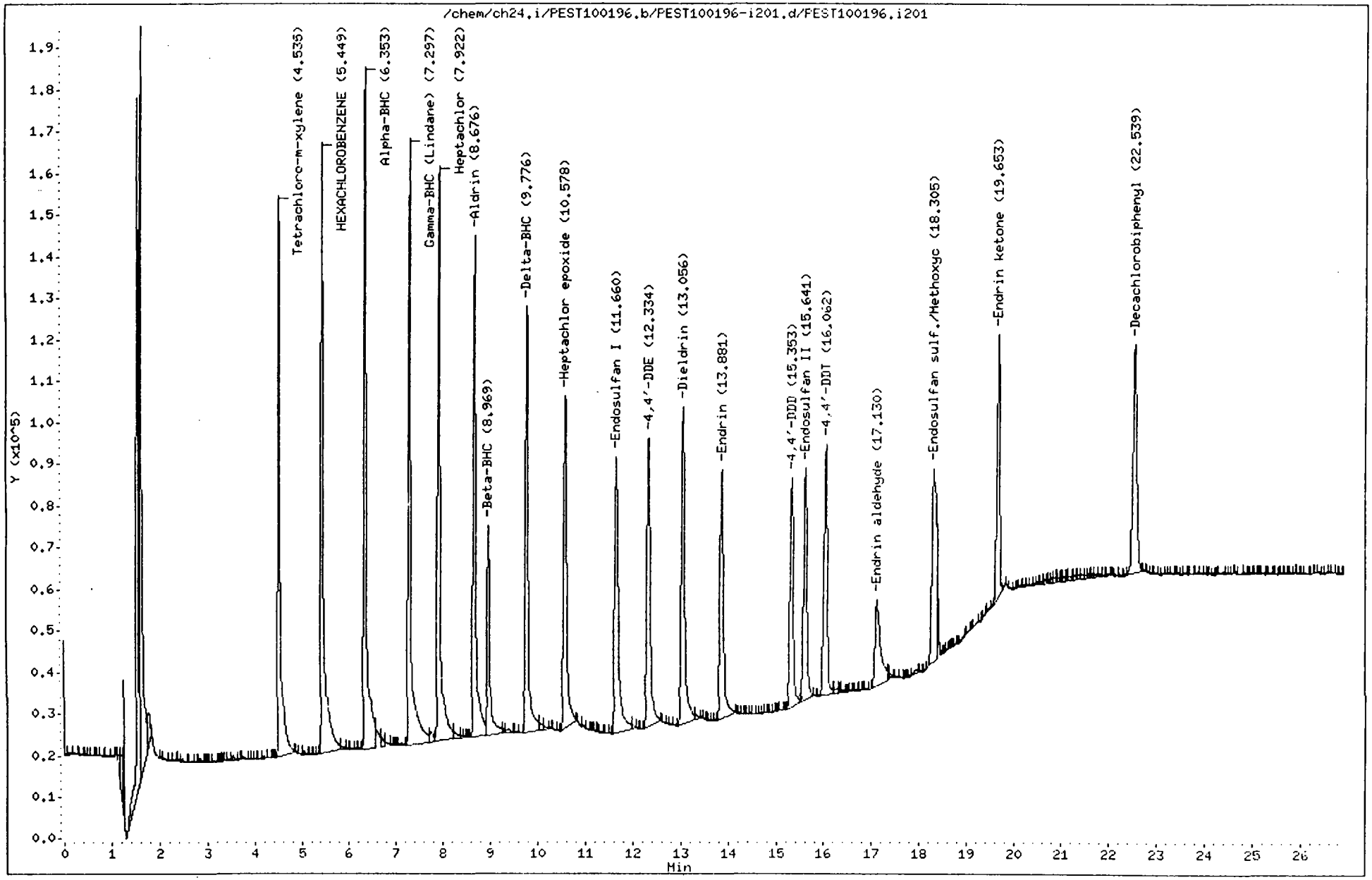
Sample Info: PESTICIDES STD 0.100UG/ML AA904-73-2

Column phase: DB-1701

Instrument: ch24.i

Operator: MAKOWALSKI

Column diameter: 0.53



RAW QUALITY CONTROL DATA

FORM 1
8080 ORGANICS ANALYSIS DATA SHEET

AT Kearney SAMPLE NO.

BLK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: PEST100196-I121

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/30/96

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/01/96

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	Alpha-BHC	0.500	U
319-85-7	Beta-BHC	0.500	U
319-86-8	Delta-BHC	0.500	U
58-89-9	Gamma-BHC (Lindane)	0.500	U
76-44-8	Heptachlor	0.500	U
309-00-2	Aldrin	0.500	U
1024-57-3	Heptachlor epoxide	0.500	U
959-98-8	Endosulfan I	0.500	U
60-57-1	Dieldrin	0.500	U
72-55-9	4,4'-DDE	0.500	U
72-20-8	Endrin	1.00	U
33213-65-9	Endosulfan II	0.500	U
72-54-8	4,4'-DDD	1.00	U
1031-07-8	Endosulfan sulfate	1.00	U
50-29-3	4,4'-DDT	1.00	U
72-43-5	Methoxychlor	0.500	U
7421-36-3	Endrin aldehyde	2.00	U
8001-35-2	Toxaphene	10.00	U
12674-11-2	Aroclor 1016	5.00	U
11104-28-2	Aroclor 1221	5.00	U
1114-16-5	Aroclor 1232	5.00	U
53469-21-9	Aroclor 1242	5.00	U
12672-29-6	Aroclor 1248	5.00	U
11097-69-1	Aroclor 1254	5.00	U
11096-82-5	Aroclor 1260	5.00	U
12789-03-6	Chlordane	1.00	U
----------	Isodrin	0.500	U
----------	Kepone	10.00	U

Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST100196.b\PEST100196-i121.d
Lab Smp Id: BLK Client Smp ID: BLK
Inj Date : 01-OCT-96 14:27:00
Operator : MAK Inst ID: ch22.i
Smp Info : BLANK 1000/10 8080 AB879-93 30SEP96
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST100196.b\22pest0903.m
Meth Date : 27-Oct-96 13:38:49 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.21 Sample Matrix: WATER
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene				CAS #: 877-09-8		
4.977	4.977 (0.804)	98763	0.110	2.21		100.00
* 2 HEXACHLOROBENZENE				CAS #:		
6.191	6.191 (1.000)	48854	1.00			100.00
30 Methoxychlor				CAS #: 72-43-5		
20.498	20.511 (3.311)	266	0.00107	0.0214		100.00(a)
$ 32 Decachlorobiphenyl				CAS #: 2051-24-3		
26.124	26.150 (4.219)	57717	0.109	2.18		100.00

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/ch22.i/PEST100196.b/PEST100196-i121.d

Date : 01-OCT-96 14:27:00

Client ID: BLK

Instrument: ch22.i

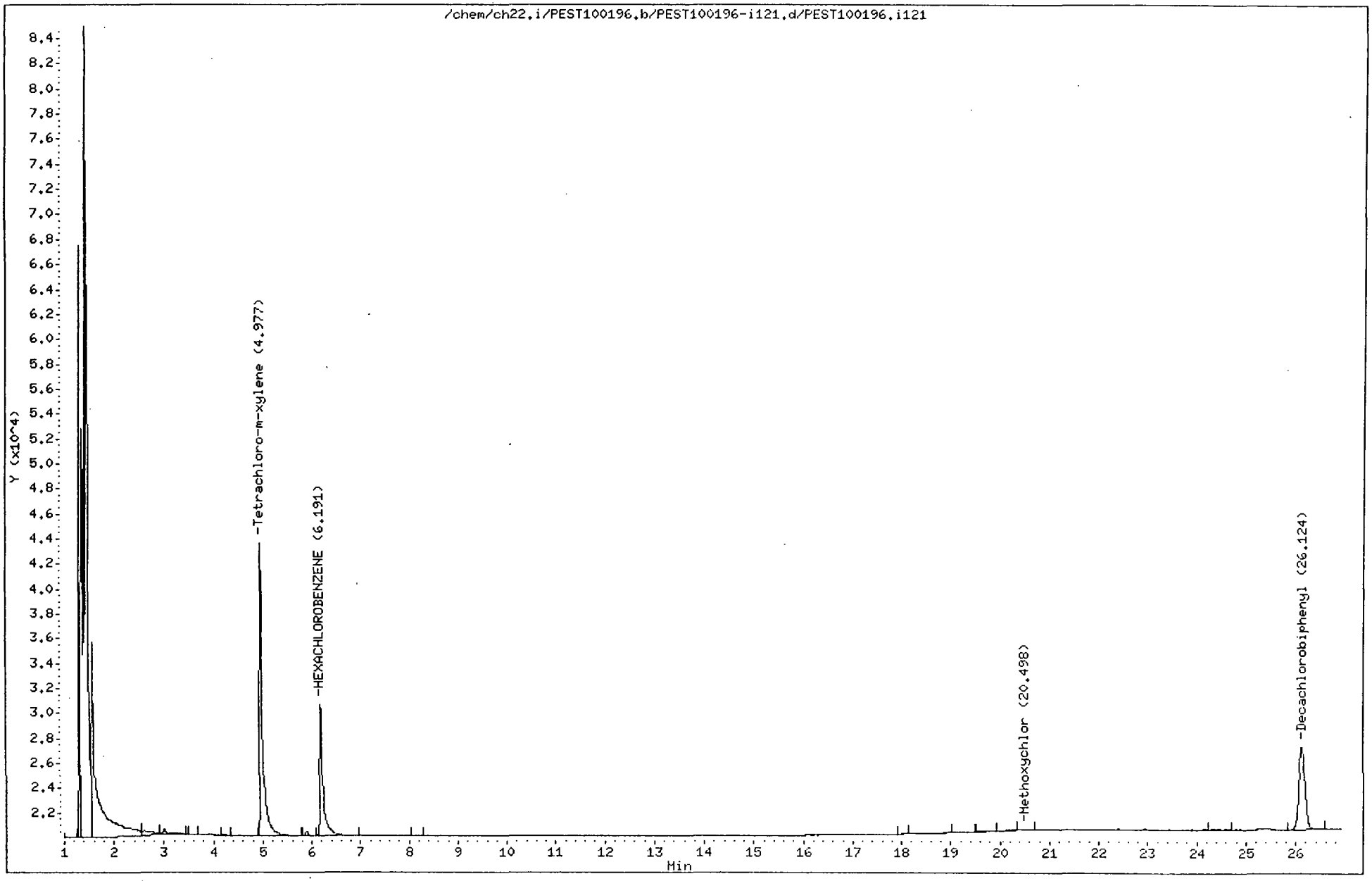
Sample Info: BLANK 1000/10 8080 AB879-93 30SEP96

Volume Injected (uL): 0.5

Operator: MAK

Column phase: DB-608

Column diameter: 0.53



Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch24.i\PEST100196.b\PEST100196-i121.d
Lab Smp Id: BLK Client Smp ID: BLK
Inj Date : 01-OCT-96 14:27:00
Operator : MAKOWALSKI Inst ID: ch24.i
Smp Info : BLANK 1000/10 8080 AB879-93 30SEP96
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch24.i\PEST100196.b\24pest0906.m
Meth Date : 27-Oct-96 13:52:03 Quant Type: ISTD
Cal Date : 06-SEP-96 16:05:00 Cal File: PEST090696-i071.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 1 Tetrachloro-m-xylene	4.549	4.535	(0.833)	1120419	0.113	2.25
* 2 HEXACHLOROBENZENE	5.457	5.449	(1.000)	555569	1.00	
$ 29 Decachlorobiphenyl	22.548	22.539	(4.132)	590604	0.116	2.31

Data File: /chem/ch24.i/PEST100196.b/PEST100196-i121.d

Date : 01-OCT-96 14:27:00

Client ID: BLK

Instrument: ch24.i

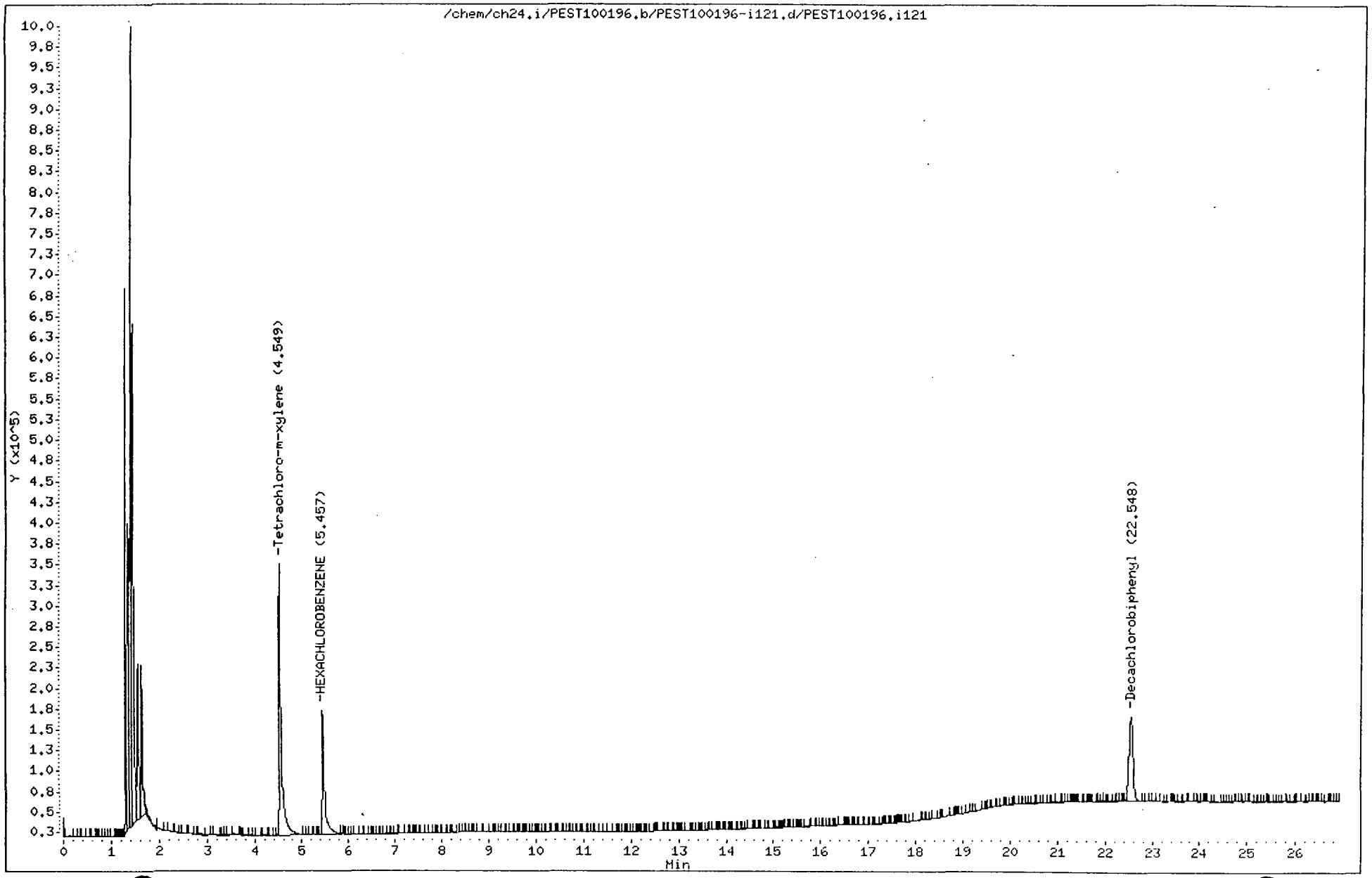
Sample Info: BLANK 1000/10 8080 AB879-93 30SEP96

Volume Injected (uL): 0.5

Operator: MAKOWALSKI

Column phase: DB-1701

Column diameter: 0.53



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FORM 1
8080 ORGANICS ANALYSIS DATA SHEET

AT Kearney SAMPLE NO.

BLKBS

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: PEST100196-I131

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/30/96

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/01/96

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	Gamma-BHC (Lindane)	2.30	
76-44-8	Heptachlor	2.58	
309-00-2	Aldrin	2.60	
60-57-1	Dieldrin	2.47	
72-20-8	Endrin	2.37	
50-29-3	4,4'-DDT	2.45	

FORM I 8080

Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST100196.b\PEST100196-i131.d
Lab Smp Id: BLKBS Client Smp ID: BLKBS
Inj Date : 01-OCT-96 14:58:00
Operator : MAK Inst ID: ch22.i
Smp Info : BS 1000/10 8080 AB879-93 30SEP96
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST100196.b\22pest0903.m
Meth Date : 27-Oct-96 13:38:49 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 QC Sample: BS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

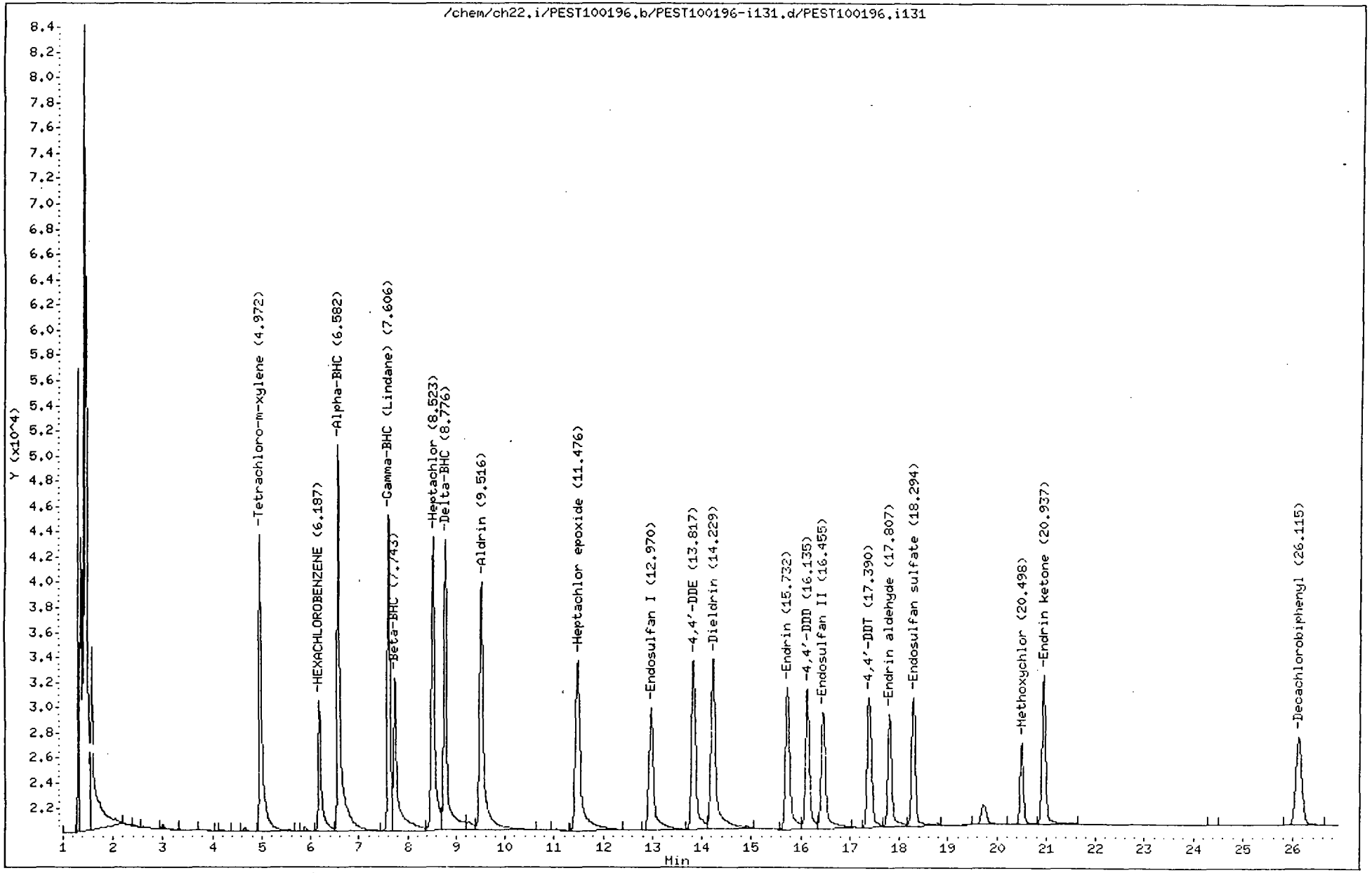
Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
3 Alpha-BHC	6.582	6.590	(1.064)	144887	0.118	2.37
6 Beta-BHC	7.743	7.752	(1.252)	73310	0.139	2.77
9 Delta-BHC	8.776	8.794	(1.418)	110464	0.146	2.92
5 Gamma-BHC (Lindane)	7.606	7.619	(1.229)	98011	0.115	2.30
8 Heptachlor	8.523	8.541	(1.378)	116944	0.129	2.58
11 Aldrin	9.516	9.534	(1.538)	123754	0.130	2.60
15 Heptachlor epoxide	11.476	11.498	(1.855)	102484	0.122	2.45
16 Endosulfan I	12.970	12.979	(2.096)	70094	0.0942	1.88
20 Dieldrin	14.229	14.247	(2.300)	101292	0.124	2.47
18 4,4'-DDE	13.817	13.852	(2.233)	85062	0.122	2.43
22 Endrin	15.732	15.754	(2.543)	74349	0.118	2.37
25 Endosulfan II	16.455	16.481	(2.660)	62500	0.118	2.36
24 4,4'-DDD	16.135	16.153	(2.608)	64960	0.125	2.49
29 Endosulfan sulfate	18.294	18.308	(2.957)	59047	0.120	2.41
27 4,4'-DDT	17.390	17.426	(2.811)	66864	0.122	2.45

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
30 Methoxychlor	20.498	20.511	(3.313)	31719	0.132	2.63
31 Endrin ketone	20.937	20.977	(3.384)	65225	0.126	2.52
28 Endrin aldehyde	17.807	17.833	(2.878)	53268	0.148	2.96
$ 1 Tetrachloro-m-xylene	4.972	4.977	(0.804)	98983	0.114	2.28
* 2 HEXACHLOROBENZENE	6.187	6.191	(1.000)	47444	1.00	
$ 32 Decachlorobiphenyl	26.115	26.150	(4.221)	61648	0.120	2.40

Data File: /chem/ch22.i/PEST100196.b/PEST100196-i131.d
Date : 01-OCT-96 14:58:00
Client ID: BLKBS
Sample Info: BS 1000/10 8080 AB879-93 30SEP96
Volume Injected (uL): 0.5
Column phase: DB-608

Instrument: ch22.i
Operator: MAK
Column diameter: 0.53



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FORM 1
8080 ORGANICS ANALYSIS DATA SHEET

AT Kearney SAMPLE NO.

BLKBSD

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: PEST10809

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: PEST100196-I141

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/30/96

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/01/96

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	Gamma-BHC (Lindane)	2.52	
76-44-8	Heptachlor	2.68	
309-00-2	Aldrin	2.57	
60-57-1	Dieldrin	2.85	
72-20-8	Endrin	2.58	
50-29-3	4,4'-DDT	2.72	

Thru-Put Systems, Inc.

EPA METHOD 8080/608

Data file : \chem\ch22.i\PEST100196.b\PEST100196-i141.d
Lab Smp Id: BLKBSD Client Smp ID: BLKBSD
Inj Date : 01-OCT-96 15:30:00
Operator : MAK Inst ID: ch22.i
Smp Info : BSD 1000/10 8080 AB879-93 30SEP96
Misc Info :
Comment : EPA METHOD 8080/608
Method : \chem\ch22.i\PEST100196.b\22pest0903.m
Meth Date : 27-Oct-96 13:38:49 makowalski Quant Type: ISTD
Cal Date : 07-SEP-96 02:04:00 Cal File: PEST090696-i261.d
Als bottle: 1 QC Sample: BSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.21
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
3 Alpha-BHC	6.582	6.590	(1.064)	144698	0.128	2.56
6 Beta-BHC	7.743	7.752	(1.252)	63808	0.131	2.61
9 Delta-BHC	8.781	8.794	(1.419)	98433	0.141	2.81
5 Gamma-BHC (Lindane)	7.610	7.619	(1.230)	99547	0.126	2.52
8 Heptachlor	8.528	8.541	(1.378)	112521	0.134	2.68
11 Aldrin	9.521	9.534	(1.539)	112782	0.128	2.57
15 Heptachlor epoxide	11.472	11.498	(1.854)	104103	0.135	2.69
16 Endosulfan I	12.970	12.979	(2.096)	72145	0.105	2.10
20 Dieldrin	14.225	14.247	(2.299)	108089	0.143	2.85
18 4,4'-DDE	13.835	13.852	(2.236)	87861	0.136	2.72
22 Endrin	15.736	15.754	(2.543)	74829	0.129	2.58
25 Endosulfan II	16.459	16.481	(2.660)	61370	0.126	2.51
24 4,4'-DDD	16.144	16.153	(2.609)	66655	0.138	2.77
29 Endosulfan sulfate	18.294	18.308	(2.957)	61813	0.136	2.73
27 4,4'-DDT	17.403	17.426	(2.813)	68662	0.136	2.72

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
30 Methoxychlor	20.502	20.511	(3.314)	31852	0.143	2.86
31 Endrin ketone	20.950	20.977	(3.386)	68122	0.143	2.85
28 Endrin aldehyde	17.811	17.833	(2.879)	55504	0.167	3.34
$ 1 Tetrachloro-m-xylene	4.968	4.977	(0.803)	98594	0.123	2.45
* 2 HEXACHLOROBENZENE	6.187	6.191	(1.000)	43839	1.00	
$ 32 Decachlorobiphenyl	26.137	26.150	(4.224)	49539	0.104	2.09

Data File: /chem/ch22.i/PEST100196.b/PEST100196-i141.d

Date : 01-OCT-96 15:30:00

Client ID: BLKBSD

Instrument: ch22.i

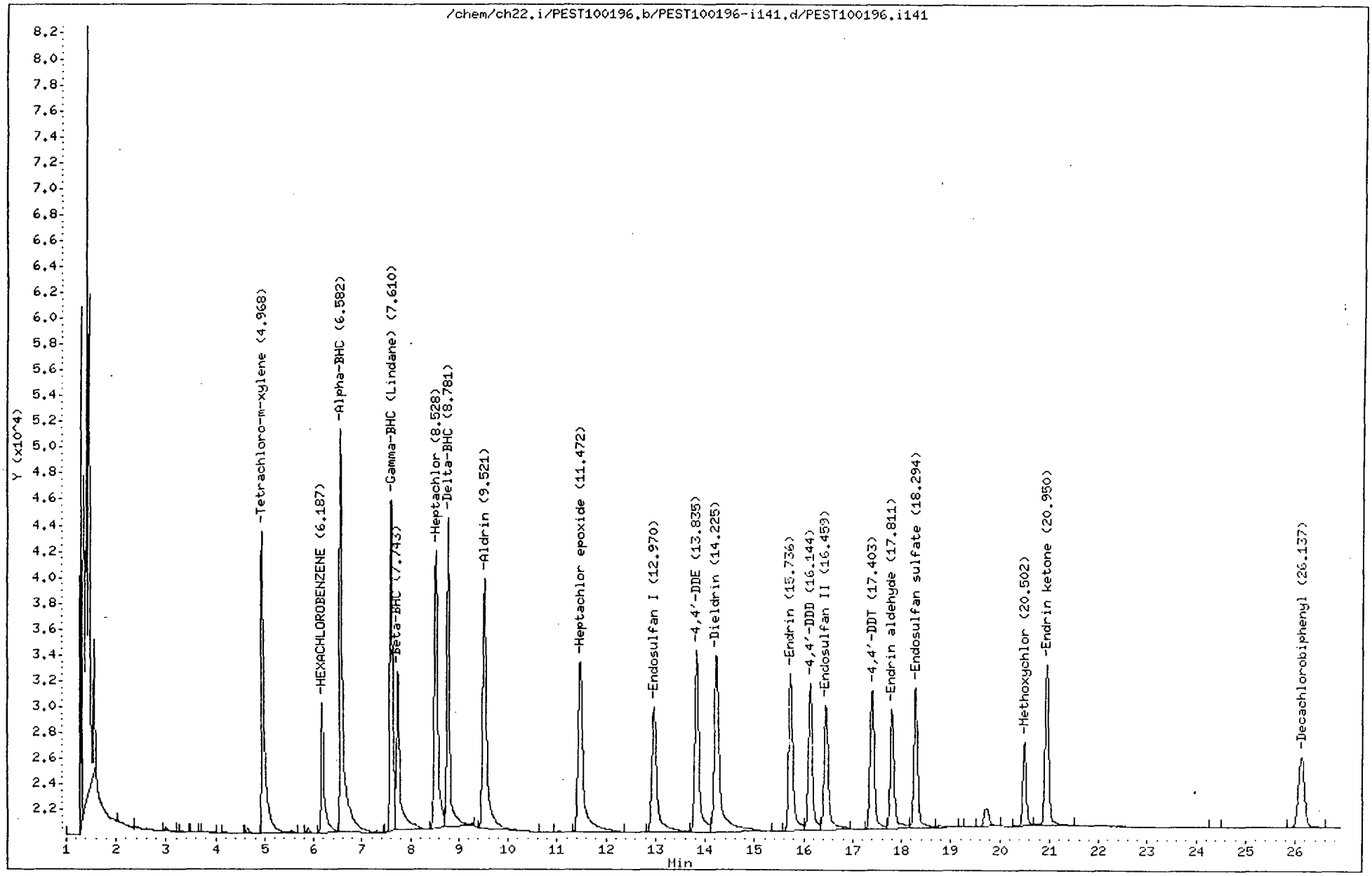
Sample Info: BSD 1000/10 8080 AB879-93 30SEP96

Volume Injected (uL): 0.5

Operator: MAK

Column phase: DB-608

Column diameter: 0.53



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PREPARATION AND ANALYSIS LOGS

BATCH: AB879-99

DATE STARTED: 09-30-96 / 1200

Method 3510B for Pesticides/PCB's in Water (8080/8081)

ITS Environmental, Dallas, Tx (214)238-5591

Sample I.D.:	RE-EXTRACT?	CLIENT I.D.:	TCLP?	sample volume (1.0L)	sample pH	1.0ml surrogate 2.5 ppm Lot # AB868-2	1.0ml spike 2.5 ppm Lot # AB868-22	60ml CH2Cl2 lot # I34303	shake 3 X 2min	Na2SO4 lot# K096B5	conc. to ~4ml in K-D (90-100 C)	hexane exchng 50ml lot# K12304	K-D conc. to ~4ml	final volume 10.0ml	store in 12.0ml clear vials	notes/comments
Blk				TP		TP		TP	TP	TP	JP	JP	JP	JP	JP	
BS							TP									
BSD																
10754-1		Sample #01	✓	250												
-2		Sample #02	✓													
-3		Sample #03	✓													
10809-3		MW000RFIMW2		TP												
10813-1		S60797-1 190														
-2		S60797-2 203														
-3		S60797-3 202														
10859-1		MD-1		JP		JP		JP	JP	JP						
10528-5		S60772.5														
10865-2		S60799.2														
-3		S60799.3														
							JP									

Date/Time Completed: 9.30.96 / 1715

APPROVAL: Tommy [illegible] 9.30.96

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MAK 9-6-96

[090296] 22 PEST90396
Reported on 5-SEP-1996 at 14:29
Modified on 5-SEP-1996 at 09:08

ANALYSIS SUMMARY

Method..... PEST8080 Run Sequence PEST8080
Calibration..... ISO-KEP1 Control.....

Calib. Sequence.. Sequential Standard

Lims Analysis ID. Analyst Name MAKOWALSKI
Comment..... VARIAN 3600, DUAL ECD, SERIAL #: 3600-0550

	SAMPLE NAME	SAMPLE ID	TYPE	NUM INJ	CAL LEVEL	RF UP 1st -->
1	ISODRIN/KEPONE - 0.005UG/ML #AA904-76-3		ST	1	L1	I
2	ISODRIN/KEPONE - 0.025UG/ML #AA904-76-3		ST	1	L2	I
3	ISODRIN/KEPONE - 0.100UG/ML #AA904-76-3		ST	1	L3	I
4	ISODRIN/KEPONE - 0.200UG/ML #AA904-76-3		ST	1	L4	I
5	ISODRIN/KEPONE - 0.250UG/ML #AA904-76-3		ST	1	L5	I
6	INST BLANK - HEXANE		SA	1		
7	ISODRIN/KEPONE - 0.100UG/ML #AA904-76-3		SA	1		
8	BLANK 30/10 AB848-26 8-26-96 I/K MDL		SA	1		
9	BS-MDL#1 30/10 AB848-26 8-26-96 I/K MDL		SA	1		
10	BS-MDL#2 30/10 AB848-26 8-26-96 I/K MDL		SA	1		
11	BS-MDL#3 30/10 AB848-26 8-26-96 I/K MDL		SA	1		
12	BS-MDL#4 30/10 AB848-26 8-26-96 I/K MDL		SA	1		
13	BS-MDL#5 30/10 AB848-26 8-26-96 I/K MDL		SA	1		
14	BS-MDL#6 30/10 AB848-26 8-26-96 I/K MDL		SA	1		
15	BS-MDL#7 30/10 AB848-26 8-26-96 I/K MDL		SA	1		
16	BLANK 1000/10 AB848-26 8-26-96 I/K MDL		SA	1		
17	BS-MDL#1 1000/10 AB848-33 8-27-96 I/K MD		SA	1		
18	ISODRIN/KEPONE - 0.100UG/ML #AA904-76-3		SA	1		
19	INST BLANK - HEXANE		SA	1		
20	BS-MDL#2 1000/10 AB848-33 8-27-96 I/K MD		SA	1		
21	BS-MDL#3 1000/10 AB848-33 8-27-96 I/K MD		SA	1		
22	BS-MDL#4 1000/10 AB848-33 8-27-96 I/K MD		SA	1		
23	BS-MDL#5 1000/10 AB848-33 8-27-96 I/K MD		SA	1		
24	BS-MDL#6 1000/10 AB848-33 8-27-96 I/K MD		SA	1		
25	BS-MDL#7 1000/10 AB848-33 8-27-96 I/K MD		SA	1		
26	ISODRIN/KEPONE - 0.100UG/ML #AA904-76-3		SA	1		

MAK 9-6-96

MAK
9-6-96

Continued on Page

Read and Understood By

Molly Makowalski 9-6-96 Karen Anglin 9-11-96
Signed Date Signed Date

MAK 9-11-96

[090296] 22 PEST090696
Reported on 11-SEP-1996 at 08:56

ANALYSIS SUMMARY

Method..... PEST8080 Run Sequence PEST8080
Calibration..... PEST0626 Control.....

Calib. Sequence.. Sequential Standard

Lims Analysis ID. Analyst Name TCROTH
Comment..... VARIAN 3600, DUAL ECD, SERIAL #: 3600-0550

	SAMPLE NAME	SAMPLE ID	TYPE	NUM CAL INJ	CAL LEVEL	RF UP 1st -->
1	PESTICIDES CAL STD 0.005UG/ML	AA904-73-2	SA	1		
2	PESTICIDES CAL STD 0.005UG/ML	AA904-73-2	SA	1		
3	PESTICIDES CAL STD 0.025UG/ML	AA904-73-2	SA	1		
4	PESTICIDES CAL STD 0.100UG/ML	AA904-73-2	SA	1		
5	PESTICIDES CAL STD 0.200UG/ML	AA904-73-2	SA	1		
6	PESTICIDES CAL STD 0.250UG/ML	AA904-73-2	SA	1		
7	PESTICIDES CAL STD 0.400UG/ML	AA904-73-2	SA	1		
8	SYSTEM BLANK - HEXANE		SA	1		
9	TOXAPHENE CAL STD 0.20UG/ML	AA904-69-6	SA	1		
10	TOXAPHENE CAL STD 0.75UG/ML	AA904-69-6	SA	1		
11	TOXAPHENE CAL STD 1.50UG/ML	AA904-69-6	SA	1		
12	TOXAPHENE CAL STD 2.50UG/ML	AA904-69-6	SA	1		
13	TOXAPHENE CAL STD 5.00UG/ML	AA904-69-6	SA	1		
14	SYSTEM BLANK - HEXANE		SA	1		
15	PESTICIDE/CHLORDANE MIX L1	#AA904-66-4	SA	1		
16	PESTICIDE/CHLORDANE MIX L2	#AA904-66-4	SA	1		
17	PESTICIDE/CHLORDANE MIX L3	#AA904-66-4	SA	1		
18	PESTICIDE/CHLORDANE MIX L4	#AA904-66-4	SA	1		
19	PESTICIDE/CHLORDANE MIX L5	#AA904-66-4	SA	1		
20	PESTICIDE/CHLORDANE MIX L6	#AA904-66-4	SA	1		
21	SYSTEM BLANK - HEXANE		SA	1		
22	AROCHLOR 1660 - 0.03UG/ML	#AA904-74-3	SA	1		
23	AROCHLOR 1660 - 0.50UG/ML	#AA904-74-3	SA	1		
24	AROCHLOR 1660 - 1.00UG/ML	#AA904-59-3	SA	1		
25	AROCHLOR 1660 - 1.50UG/ML	#AA904-74-3	SA	1		
26	AROCHLOR 1660 - 2.50UG/ML	#AA904-74-3	SA	1		
27	SYSTEM BLANK - HEXANE		SA	1		
28	PEST. DEGR. STD - 0.05/0.10UG/ML	AA904-4	SA	1		
29	PESTICIDE ICV STD 0.100UG/ML	AA904-	SA	1		
30	TOXAPHENE CAL STD 1.50UG/ML	AA904-69-6	SA	1		
31	PESTICIDE/CHLORDANE MIX L3	AA904-66-4	SA	1		
32	AROCHLOR 1660 - 1.00UG/ML	#AA904-59-3	SA	1		
33	ISODRIN/KEPONE MIX 0.100UG/ML	AA904-76-3	SA	1		
34	BLANK 30/10 AB878-10 9-5-96 I/K MDL		SA	1		
35	BS-MDL#1 30/10 AB878-10 9-5-96 I/K MDL		SA	1		
36	BS-MDL#2 30/10 AB878-10 9-5-96 I/K MDL		SA	1		
37	BS-MDL#3 30/10 AB878-10 9-5-96 I/K MDL		SA	1		
38	BS-MDL#4 30/10 AB878-10 9-5-96 I/K MDL		SA	1		
39	BS-MDL#5 30/10 AB878-10 9-5-96 I/K MDL		SA	1		
40	BS-MDL#6 30/10 AB878-10 9-5-96 I/K MDL		SA	1		

MAK 9-11-96

[090296] 22 PEST090696
Reported on 11-SEP-1996 at 08:56

41	BS-MDL#7 30/10 AB878-10 9-5-96 I/K MDL		SA	1		
42	ISODRIN/KEPONE MIX 0.10UG/ML	AA904-76-3	SA	1		

MAK 9-11-96

Continued on Page

Read and Understood By

Signed 9-11-96 Date Signed 9-11-96 Date

[093096] 24 PEST100196 Page 1
Reported on 11-OCT-1996 at 16:26

ANALYSIS SUMMARY

Method..... PEST8080 Run Sequence PEST8080
Calibration..... PEST0906 Control.....

Calib. Sequence.. Sequential Standard

Lims Analysis ID. Analyst Name MAK/RRA
Comment..... VARIAN 3600, DUAL ECD, SERIAL #: 3600-0550

	SAMPLE NAME	SAMPLE ID	TYPE	NUM INJ	CAL LEVEL	RF UP 1st -->
1	PESTICIDE HIGH STD AA904-64-5		SA	1		
2	INST BLANK - HEXANE		SA	1		
3	INST BLANK - HEXANE		SA	1		
4	PEST DEGR. STD 0.05/0.10UG/ML AA904-47-7		SA	1		
5	PESTICIDES STD 0.100UG/ML AA904-73-2		SA	1		
6	TOXAPHENE CAL STD 1.50UG/ML AA904-69-6		SA	1		
7	AROCHLOR 1660 - 1.00UG/ML #AA904-59-3		SA	1		
8	PESTICIDE/CHLORDANE MIX L3 #AA904-78-3		SA	1		
9	ISODRIN/KEPONE STD 0.100UG/ML AA904-76-3		SA	1		
10	10759-2 1000/10 8080 AB879-72 26SEP96		SA	1		
11	10767-1 1000/10 8080 AB879-72 26SEP96		SA	1		
12	BLANK 1000/10 8080 AB879-93 30SEP96		SA	1		
13	BS 1000/10 8080 AB879-93 30SEP96		SA	1		
14	BSD 1000/10 8080 AB879-93 30SEP96		SA	1		
15	10754-1 250/10 8080 AB879-93 30SEP96		SA	1		
16	10754-2 250/10 8080 AB879-93 30SEP96		SA	1		
17	10754-3 250/10 8080 AB879-93 30SEP96		SA	1		
18	10809-3 1000/10 8080 AB879-93 30SEP96		SA	1		
19	10813-1 1000/10 8080 AB879-93 30SEP96		SA	1		
20	PESTICIDES STD 0.100UG/ML AA904-73-2		SA	1		
21	10813-2 1000/10 8080 AB879-93 30SEP96		SA	1		
22	10813-3 1000/10 8080 AB879-93 30SEP96		SA	1		
23	10528-5 1000/10 8080 AB879-93 30SEP96		SA	1		
24	10865-2 1000/10 8080 AB879-93 30SEP96		SA	1		
25	10865-3 1000/10 8080 AB879-93 30SEP96		SA	1		
26	10859-1 1000/10 8080 AB879-93 30SEP96		SA	1		
27	INST BLANK - HEXANE		SA	1		
28	PESTICDES STD 0.100UG/ML AA904-73-2		SA	1		
29	10759-6DL 30/10 1:2DIL AB879-78 27SEP96		SA	1		
30	10773-5 30/10 8080 AB879-78 27SEP96		SA	1		
31	10773-6 30/10 8080 AB879-78 27SEP96		SA	1		
32	INST BLANK - HEXANE		SA	1		
33	PESTICIDES STD 0.100UG/ML AA904-73-2		SA	1		

10-11-96

10-11-96

10-11-96

10-11-96

Continued on Page

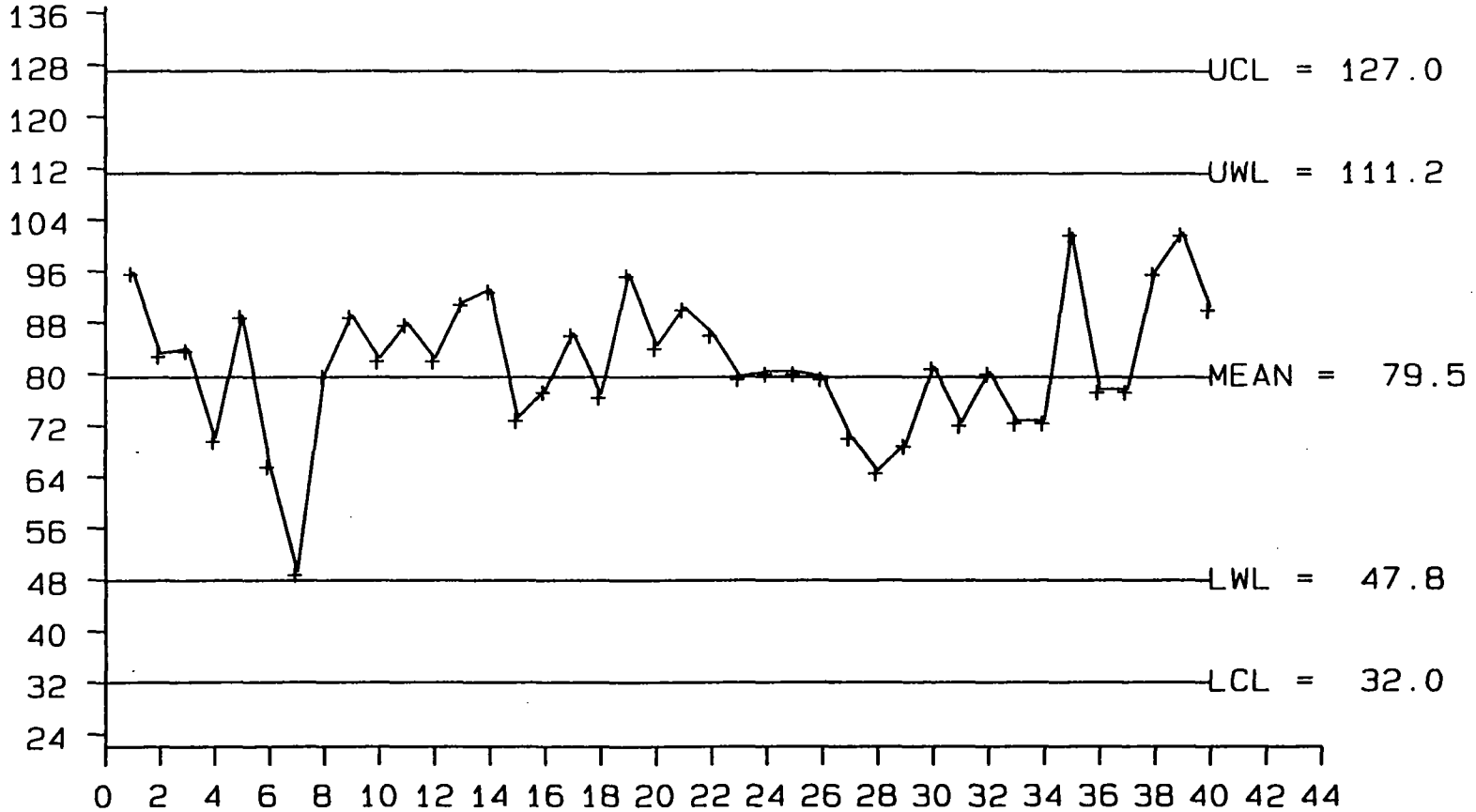
Read and Understood By

Signed Date Signed Date

CONTROL CHARTS

8080_L Lindane (BS RECOVERY)

Produced by A_HUMASO on 28-OCT-1996 14: 33: 37.85



Inchcape Testing Services
Environmental Laboratories

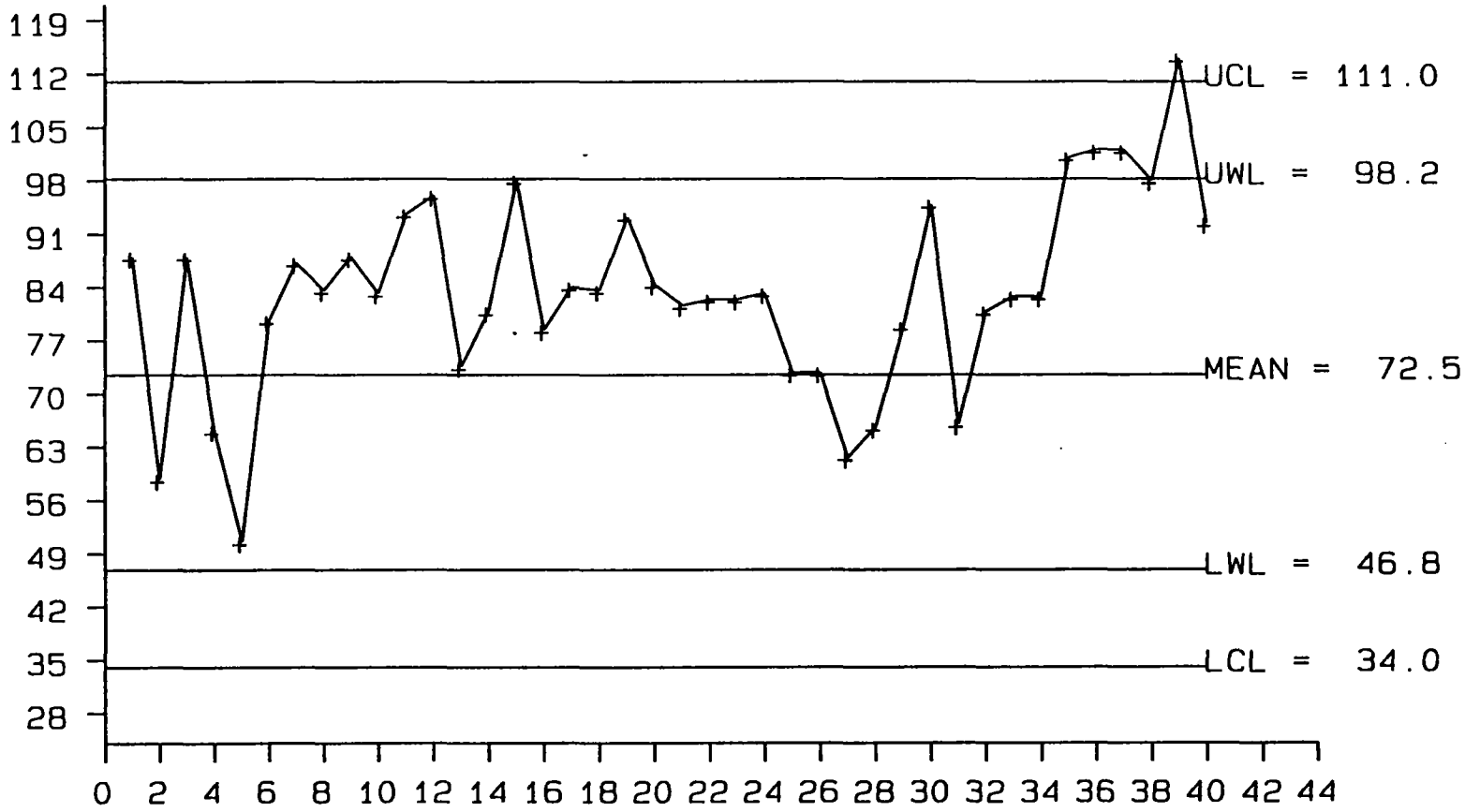
D[illegible] Points for: 8080_L Lindane
Chart Type: BS RECOVERY
Generated on: 28-OCT-1996 14:33

Current Control Limits
(32.0 - 127.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB624-91	30-NOV-1995 0	96.0
2	AB624-99	1-DEC-1995 0	83.2
3	AB625-86	13-DEC-1995 0	84.0
4	AB648-48	28-DEC-1995 0	70.0
5	AB670-44	24-JAN-1996 0	89.2
6	AB671-100	14-FEB-1996 0	66.0
7	AB671-84	14-FEB-1996 0	49.2
8	AB672-45	18-FEB-1996 0	80.0
9	AB672-34	19-FEB-1996 0	89.2
10	AB672-68	21-FEB-1996 0	82.4
11	AB674-37	7-MAR-1996 0	88.0
12	AB674-68	13-MAR-1996 0	82.4
13	AB711-2	14-MAR-1996 0	91.2
14	AB711-56	20-MAR-1996 0	93.2
15	AB712-23	29-MAR-1996 0	73.2
16	AB713-60	11-APR-1996 0	77.6
17	AB714-48	22-APR-1996 0	86.4
18	AB765-35	20-MAY-1996 0	76.8
19	AB765-70	25-MAY-1996 0	95.6
20	AB788-96	24-JUN-1996 0	84.4
21	AB790-80	3-JUL-1996 0	90.4
22	AB815-7	7-JUL-1996 0	86.4
23	AB815-51	11-JUL-1996 0	79.6
24	AB815-82	15-JUL-1996 0	80.4
25	AB815-83	16-JUL-1996 0	80.4
26	0715808001	16-JUL-1996 0	79.6
27	AB816-69	25-JUL-1996 0	70.4
28	AB816-100	29-JUL-1996 0	65.0
29	AB847-47	16-AUG-1996 0	69.2
30	AB847-64	19-AUG-1996 0	81.2
31	AB848-72	1-SEP-1996 0	72.4
32	AB878-22	10-SEP-1996 0	80.4
33	AB879-7	19-SEP-1996 0	72.8
34	0918808001	19-SEP-1996 0	72.8
35	AB879-22	20-SEP-1996 0	102
36	AB873-53	25-SEP-1996 0	77.6
37	AB879-53	25-SEP-1996 0	77.6
38	AB879-93	1-OCT-1996 0	95.9
39	AB902-63A	14-OCT-1996 0	102
40	AB902-88	14-OCT-1996 0	90.4

8080_L Heptachlor (BS RECOVERY)

Produced by A_HUMASO on 28-OCT-1996 14:34:53.99



Inchcape Testing Services
Environmental Laboratories

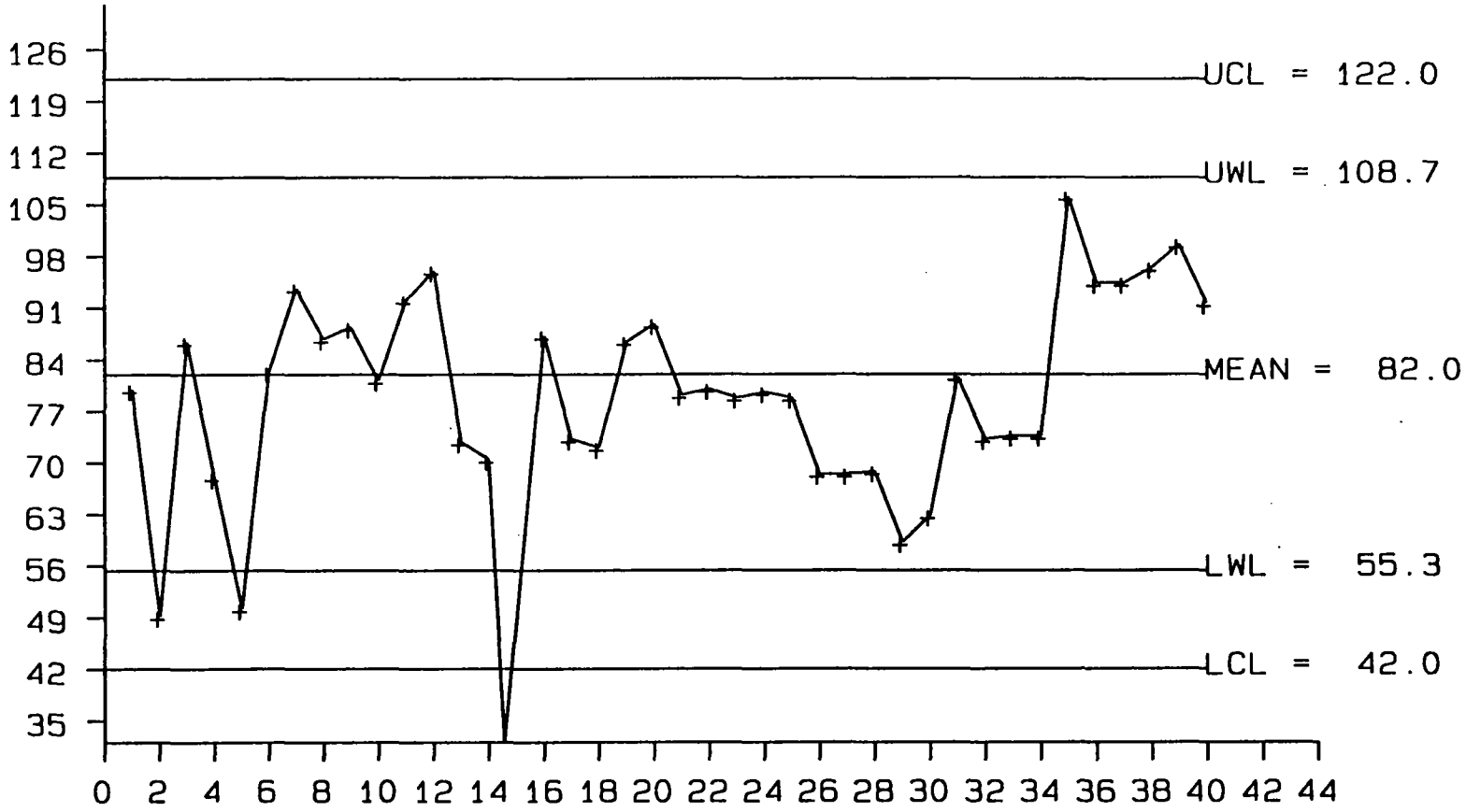
Da Points for: 8080_L Heptachlor
Chart Type: BS RECOVERY
Generated on: 28-OCT-1996 14:35

Current Control Limits
(34.0 - 111.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB625-86	13-DEC-1995 0	88.0
2	AB648-48	28-DEC-1995 0	58.8
3	AB670-44	24-JAN-1996 0	88.0
4	AB671-100	14-FEB-1996 0	65.2
5	AB671-84	14-FEB-1996 0	50.6
6	AB672-45	18-FEB-1996 0	79.6
7	AB672-34	19-FEB-1996 0	87.2
8	AB672-68	21-FEB-1996 0	83.6
9	AB674-37	7-MAR-1996 0	88.0
10	AB674-68	13-MAR-1996 0	83.2
11	AB711-2	14-MAR-1996 0	93.6
12	AB711-56	20-MAR-1996 0	96.0
13	AB712-23	29-MAR-1996 0	73.6
14	AB713-60	11-APR-1996 0	80.8
15	AB714-48	22-APR-1996 0	98.0
16	AB765-35	20-MAY-1996 0	78.4
17	AB765-70	25-MAY-1996 0	84.0
18	AB788-96	24-JUN-1996 0	83.6
19	AB790-80	3-JUL-1996 0	93.2
20	AB815-7	7-JUL-1996 0	84.4
21	AB815-51	11-JUL-1996 0	81.6
22	AB815-82	15-JUL-1996 0	82.4
23	0715808001	16-JUL-1996 0	82.4
24	AB815-83	16-JUL-1996 0	83.2
25	AB816-14	22-JUL-1996 0	72.8
26	AB0717808001	22-JUL-1996 0	72.8
27	AB816-69	25-JUL-1996 0	61.6
28	AB816-100	29-JUL-1996 0	65.6
29	AB847-47	16-AUG-1996 0	78.8
30	AB847-64	19-AUG-1996 0	94.8
31	AB848-72	1-SEP-1996 0	66.0
32	AB878-22	10-SEP-1996 0	80.8
33	0918808001	19-SEP-1996 0	82.8
34	AB879-7	19-SEP-1996 0	82.8
35	AB879-22	20-SEP-1996 0	101
36	AB873-53	25-SEP-1996 0	102
37	AB879-53	25-SEP-1996 0	102
38	AB879-93	1-OCT-1996 0	98.0
39	AB902-63A	14-OCT-1996 0	114
40	AB902-88	14-OCT-1996 0	92.4

8080_L Aldrin (BS RECOVERY)

Produced by A_HUMASO on 28-OCT-1996 14: 59: 54.79



Inchcape Testing Services
Environmental Laboratories

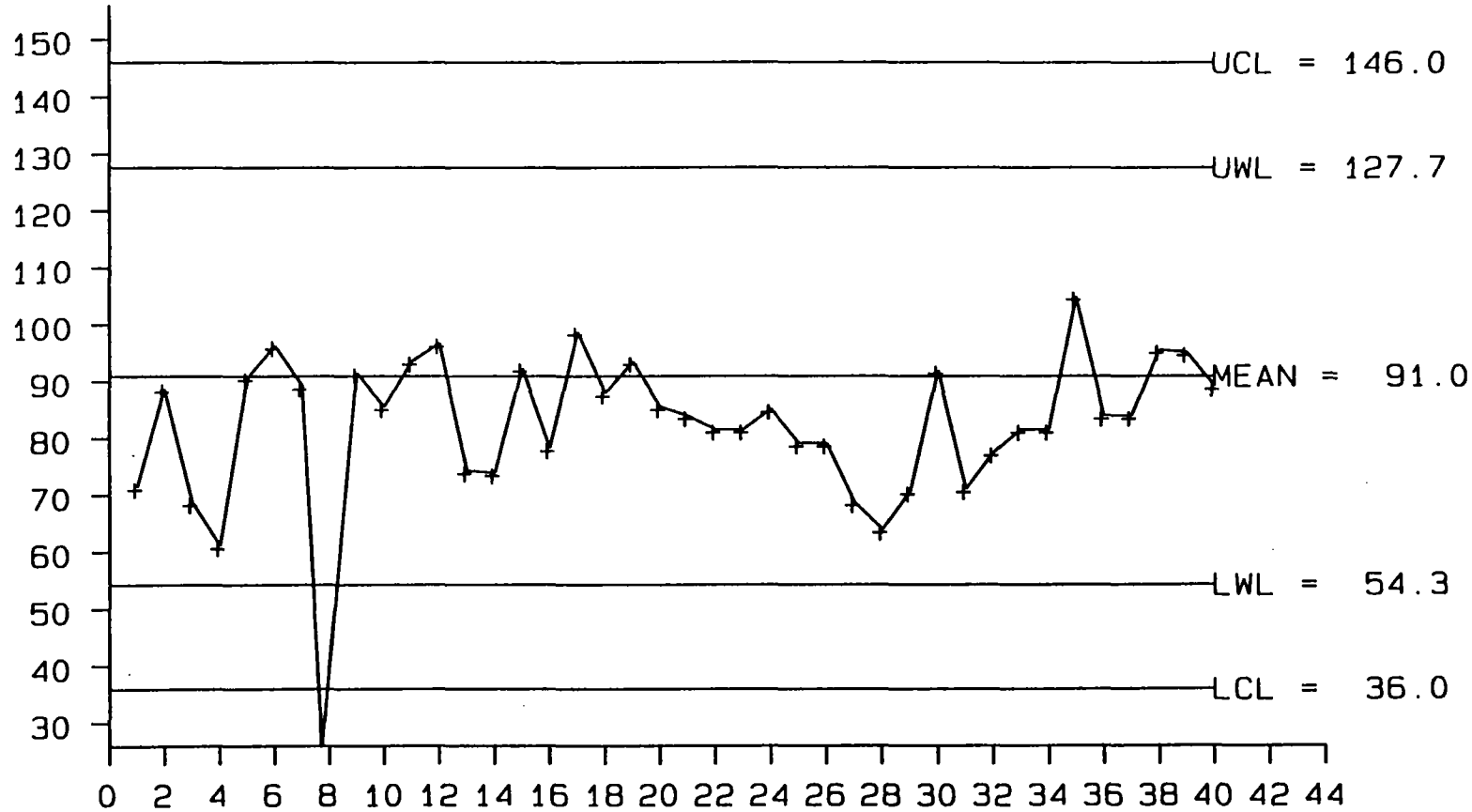
Da[illegible] Points for: 8080_L Aldrin
Chart Type: BS RECOVERY
Generated on: 28-OCT-1996 14:37

Current Control Limits
(42.0 - 122.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB625-86	13-DEC-1995 0	80.0
2	AB648-48	28-DEC-1995 0	49.2
3	AB670-44	24-JAN-1996 0	86.4
4	AB671-100	14-FEB-1996 0	68.0
5	AB671-84	14-FEB-1996 0	50.2
6	AB672-45	18-FEB-1996 0	82.4
7	AB672-34	19-FEB-1996 0	93.6
8	AB672-68	21-FEB-1996 0	86.8
9	AB674-37	7-MAR-1996 0	88.4
10	AB674-68	13-MAR-1996 0	81.2
11	AB711-2	14-MAR-1996 0	92.0
12	AB711-56	20-MAR-1996 0	96.0
13	AB712-23	29-MAR-1996 0	72.8
14	AB713-60	11-APR-1996 0	70.4
15	AB713-70	19-APR-1996 0	0.0
16	AB714-48	22-APR-1996 0	87.2
17	AB765-35	20-MAY-1996 0	73.2
18	AB765-70	25-MAY-1996 0	72.0
19	AB788-96	24-JUN-1996 0	86.4
20	AB790-80	3-JUL-1996 0	88.8
21	AB815-7	7-JUL-1996 0	79.2
22	AB815-51	11-JUL-1996 0	80.0
23	AB815-82	15-JUL-1996 0	78.8
24	AB815-83	16-JUL-1996 0	79.6
25	0715808001	16-JUL-1996 0	78.8
26	AB816-14	22-JUL-1996 0	68.4
27	AB0717808001	22-JUL-1996 0	68.4
28	AB816-69	25-JUL-1996 0	68.8
29	AB816-100	29-JUL-1996 0	59.2
30	AB847-47	16-AUG-1996 0	62.8
31	AB847-64	19-AUG-1996 0	81.6
32	AB878-22	10-SEP-1996 0	73.2
33	AB879-7	19-SEP-1996 0	73.6
34	0918808001	19-SEP-1996 0	73.6
35	AB879-22	20-SEP-1996 0	106
36	AB873-53	25-SEP-1996 0	94.4
37	AB879-53	25-SEP-1996 0	94.4
38	AB879-93	1-OCT-1996 0	96.4
39	AB902-63A	14-OCT-1996 0	99.6
40	AB902-88	14-OCT-1996 0	91.6

8080_L Dieldrin (BS RECOVERY)

Produced by A_HUMASO on 28-OCT-1996 14:37:54.86



Inchcape Testing Services
Environmental Laboratories

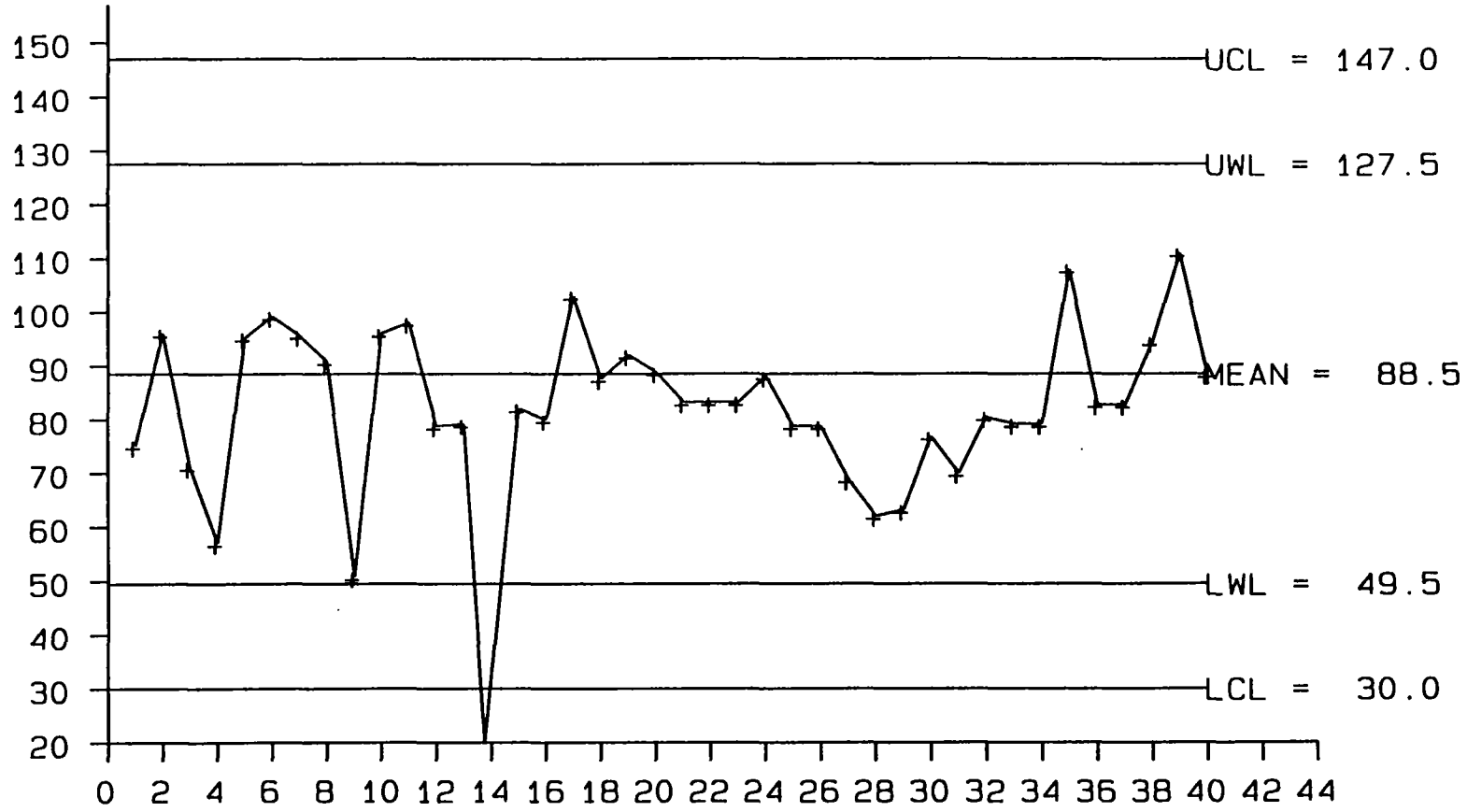
Da[illegible] Points for: 8080_L Dieldrin
Chart Type: BS RECOVERY
Generated on: 28-OCT-1996 14:37

Current Control Limits
(36.0 - 146.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB648-48	28-DEC-1995 0	71.6
2	AB670-44	24-JAN-1996 0	88.8
3	AB671-100	14-FEB-1996 0	68.8
4	AB671-84	14-FEB-1996 0	61.2
5	AB672-45	18-FEB-1996 0	90.8
6	AB672-34	19-FEB-1996 0	96.4
7	AB672-68	21-FEB-1996 0	89.2
8	AB674-14	6-MAR-1996 0	0.0
9	AB674-37	7-MAR-1996 0	91.6
10	AB674-68	13-MAR-1996 0	85.6
11	AB711-2	14-MAR-1996 0	93.6
12	AB711-56	20-MAR-1996 0	96.8
13	AB712-23	29-MAR-1996 0	74.4
14	AB713-60	11-APR-1996 0	74.0
15	AB714-48	22-APR-1996 0	92.4
16	AB765-35	20-MAY-1996 0	78.4
17	AB765-70	25-MAY-1996 0	98.8
18	AB788-96	24-JUN-1996 0	88.0
19	AB790-80	3-JUL-1996 0	93.6
20	AB815-7	7-JUL-1996 0	85.6
21	AB815-51	11-JUL-1996 0	84.0
22	AB815-82	15-JUL-1996 0	81.6
23	0715808001	16-JUL-1996 0	81.6
24	AB815-83	16-JUL-1996 0	85.2
25	AB816-14	22-JUL-1996 0	79.2
26	AB0717808001	22-JUL-1996 0	79.2
27	AB816-69	25-JUL-1996 0	68.8
28	AB816-100	29-JUL-1996 0	64.0
29	AB847-47	16-AUG-1996 0	70.8
30	AB847-64	19-AUG-1996 0	92.0
31	AB848-72	1-SEP-1996 0	71.2
32	AB878-22	10-SEP-1996 0	77.6
33	0918808001	19-SEP-1996 0	81.6
34	AB879-7	19-SEP-1996 0	81.6
35	AB879-22	20-SEP-1996 0	105
36	AB873-53	25-SEP-1996 0	84.0
37	AB879-53	25-SEP-1996 0	84.0
38	AB879-93	1-OCT-1996 0	95.6
39	AB902-63A	14-OCT-1996 0	95.2
40	AB902-88	14-OCT-1996 0	89.2

8080_L Endrin (BS RECOVERY)

Produced by A_HUMASO on 28-OCT-1996 14: 39: 24.60



Inchcape Testing Services
Environmental Laboratories

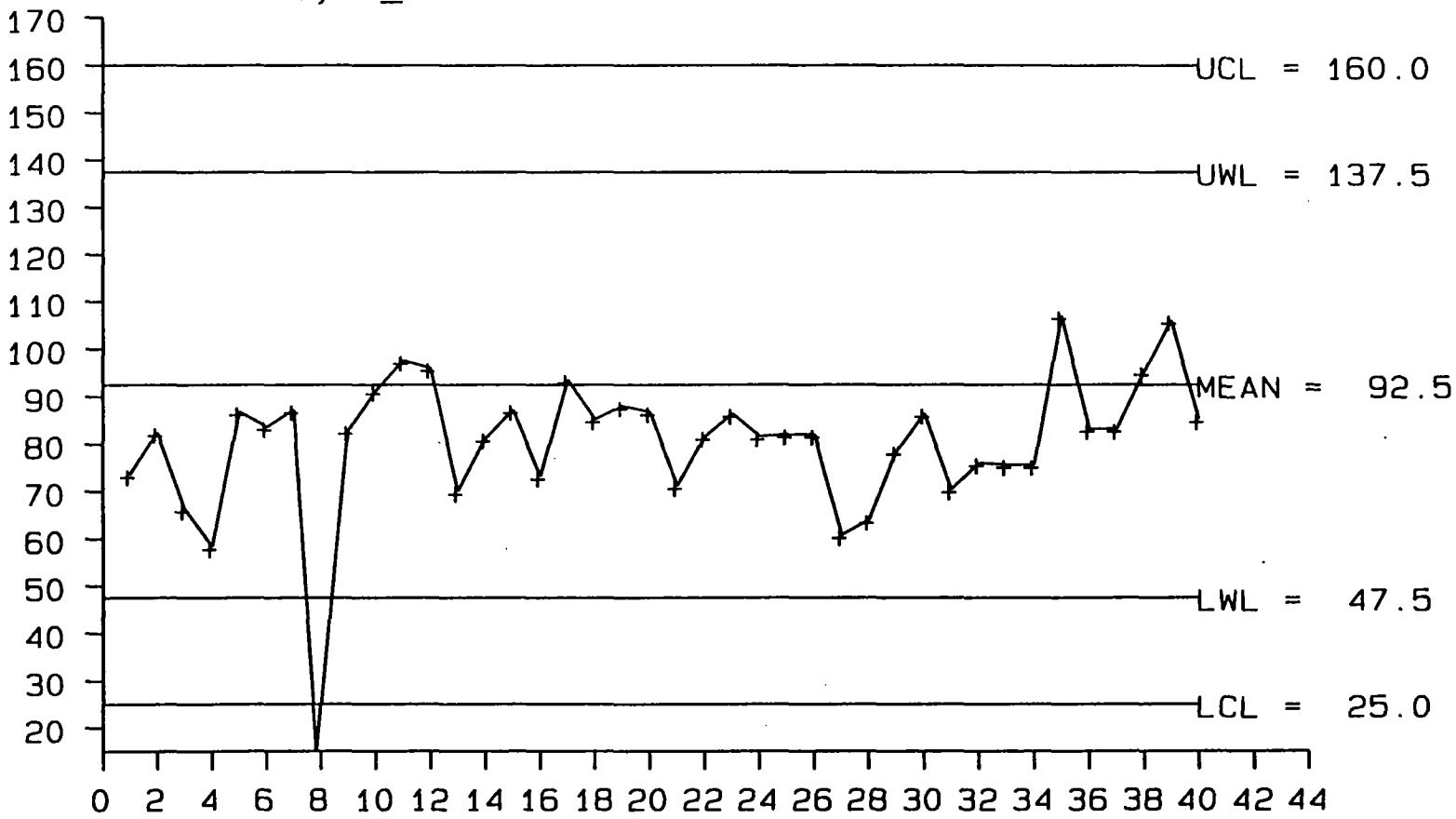
Da Points for: 8080_L Endrin
Chart Type: BS RECOVERY
Generated on: 28-OCT-1996 14:39

Current Control Limits
(30.0 - 147.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB648-48	28-DEC-1995 0	75.2
2	AB670-44	24-JAN-1996 0	96.0
3	AB671-100	14-FEB-1996 0	71.2
4	AB671-84	14-FEB-1996 0	57.1
5	AB672-45	18-FEB-1996 0	95.2
6	AB672-34	19-FEB-1996 0	99.2
7	AB672-68	21-FEB-1996 0	95.6
8	AB674-37	7-MAR-1996 0	90.8
9	AB674-68	13-MAR-1996 0	50.8
10	AB711-2	14-MAR-1996 0	96.0
11	AB711-56	20-MAR-1996 0	98.0
12	AB712-23	29-MAR-1996 0	78.8
13	AB713-60	11-APR-1996 0	79.2
14	AB713-70	19-APR-1996 0	0.0
15	AB714-48	22-APR-1996 0	82.0
16	AB765-35	20-MAY-1996 0	80.0
17	AB765-70	25-MAY-1996 0	103
18	AB788-96	24-JUN-1996 0	87.6
19	AB790-80	3-JUL-1996 0	92.0
20	AB815-7	7-JUL-1996 0	88.8
21	AB815-51	11-JUL-1996 0	83.2
22	AB815-82	15-JUL-1996 0	83.2
23	0715808001	16-JUL-1996 0	83.2
24	AB815-83	16-JUL-1996 0	88.0
25	AB816-14	22-JUL-1996 0	78.8
26	AB0717808001	22-JUL-1996 0	78.8
27	AB816-69	25-JUL-1996 0	68.8
28	AB816-100	29-JUL-1996 0	62.0
29	AB847-47	16-AUG-1996 0	63.2
30	AB847-64	19-AUG-1996 0	76.8
31	AB848-72	1-SEP-1996 0	70.0
32	AB878-22	10-SEP-1996 0	80.4
33	0918808001	19-SEP-1996 0	79.2
34	AB879-7	19-SEP-1996 0	79.2
35	AB879-22	20-SEP-1996 0	108
36	AB873-53	25-SEP-1996 0	82.8
37	AB879-53	25-SEP-1996 0	82.8
38	AB879-93	1-OCT-1996 0	94.4
39	AB902-63A	14-OCT-1996 0	111
40	AB902-88	14-OCT-1996 0	88.4

8080_L 4, 4'-DDT (BS RECOVERY)

Produced by A_HUMASO on 28-OCT-1996 14: 40: 40.24



Inchcape Testing Services
Environmental Laboratories

Da Points for: 8080_L 4,4'-DDT
Chart Type: BS RECOVERY
Generated on: 28-OCT-1996 14:40

Current Control Limits
(25.0 - 160.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB648-48	28-DEC-1995 0	73.6
2	AB670-44	24-JAN-1996 0	82.4
3	AB671-100	14-FEB-1996 0	66.4
4	AB671-84	14-FEB-1996 0	58.4
5	AB672-45	18-FEB-1996 0	86.8
6	AB672-34	19-FEB-1996 0	83.6
7	AB672-68	21-FEB-1996 0	87.2
8	AB674-14	6-MAR-1996 0	0.0
9	AB674-37	7-MAR-1996 0	82.8
10	AB674-68	13-MAR-1996 0	91.2
11	AB711-2	14-MAR-1996 0	97.6
12	AB711-56	20-MAR-1996 0	96.0
13	AB712-23	29-MAR-1996 0	70.0
14	AB713-60	11-APR-1996 0	81.2
15	AB714-48	22-APR-1996 0	87.2
16	AB765-35	20-MAY-1996 0	73.2
17	AB765-70	25-MAY-1996 0	93.6
18	AB788-96	24-JUN-1996 0	85.2
19	AB790-80	3-JUL-1996 0	88.0
20	AB815-7	7-JUL-1996 0	86.8
21	AB815-51	11-JUL-1996 0	71.2
22	AB815-82	15-JUL-1996 0	81.6
23	AB815-83	16-JUL-1996 0	86.4
24	0715808001	16-JUL-1996 0	81.6
25	AB816-14	22-JUL-1996 0	82.0
26	AB0717808001	22-JUL-1996 0	82.0
27	AB816-69	25-JUL-1996 0	60.8
28	AB816-100	29-JUL-1996 0	64.0
29	AB847-47	16-AUG-1996 0	78.4
30	AB847-64	19-AUG-1996 0	86.4
31	AB848-72	1-SEP-1996 0	70.4
32	AB878-22	10-SEP-1996 0	76.0
33	AB879-7	19-SEP-1996 0	75.6
34	0918808001	19-SEP-1996 0	75.6
35	AB879-22	20-SEP-1996 0	107
36	AB873-53	25-SEP-1996 0	83.2
37	AB879-53	25-SEP-1996 0	83.2
38	AB879-93	1-OCT-1996 0	95.2
39	AB902-63A	14-OCT-1996 0	106
40	AB902-88	14-OCT-1996 0	85.2

HERBICIDES DATA

QUALITY CONTROL SUMMARY

FORM 2
WATER HERB SURROGATE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

	AT Kearney SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	BLK	104								0
02	BLKBS	134								0
03	BLKBSD	130								0
04	RFIMW2	119								0
05										
06										
07										
08										
09										
10										
11										
12										
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25										
26										
27										
28										
29										
30										

QC LIMITS
S1 = 2,4-Dichlorophenylacet (30-155)

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

FORM 3
WATER HERB BLANK SPIKE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Matrix Spike - Client Sample ID: BLKBS

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC. LIMITS REC.
2,4-D	4.00	0.000	5.34	134	40-140
2,4,5-TP Silvex	0.400	0.000	0.452	113	40-140
2,4,5-T	0.400	0.000	0.495	124	40-140

COMPOUND	SPIKE ADDED (ug/L)	BSD CONCENTRATION (ug/L)	BSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2,4-D	4.00	5.44	136	1	25	40-140
2,4,5-TP Silvex	0.400	0.440	110	3	25	40-140
2,4,5-T	0.400	0.495	124	0	25	40-140

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

RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

COMMENTS: _____

FORM 4
HERB METHOD BLANK SUMMARY

AT Kearney SAMPLE NO.

BLK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Lab File ID: HERB100796A-I291 Lab Sample ID: BLK

Instrument ID: CH14 Date Extracted: 09/29/96

Matrix: (soil/water) WATER Date Analyzed: 10/08/96

Level:(low/med) LOW Time Analyzed: 1434

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

	AT Kearney SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	BLKBS	BLKBS	100196-i081.d	10/01/96
02	BLKBSD	BLKBSD	100196-i091.d	10/01/96
03	RFIMW2	10809-3	100796A-i311.d	10/08/96
04				
05				
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30				

COMMENTS:

FORM IV HERB

8D
HERB ANALYTICAL SEQUENCE

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

GC Column: DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 09/30/96 10/08/96

Instrument ID: CH14

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 13.82

	AT KEARNEY SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	HERBCALL1	HERBCALL1	09/30/96	2015	13.85	
02	HERBCALL2	HERBCALL2	09/30/96	2051	13.84	
03	HERBCALL3	HERBCALL3	09/30/96	2126	13.85	
04	HERBCALL4	HERBCALL4	09/30/96	2202	13.85	
05	HERBCALL5	HERBCALL5	09/30/96	2238	13.84	
06	HERBCALL6	HERBCALL6	09/30/96	2313	13.83	
07	HERBCALL7	HERBCALL7	09/30/96	2349	13.82	
08	HERBCALL8	HERBCALL8	10/01/96	0025	13.82	
09	HERBCALL9	HERBCALL9	10/01/96	0100	13.83	
10	HERBCAL-1	HERBCAL-1	10/01/96	1302	13.83	
11	BLKBS	BLKBS	10/01/96	1414	13.83	
12	BLKBSD	BLKBSD	10/01/96	1449	13.83	
13	HERBCAL-2	HERBCAL-2	10/01/96	1934	13.82	
14	PENTCHLL1	PENTCHLL1	10/07/96	2303		
15	PENTCHLL2	PENTCHLL2	10/07/96	2339		
16	PENTCHLL3	PENTCHLL3	10/08/96	0015		
17	PENTCHLL4	PENTCHLL4	10/08/96	0050		
18	PENTCHLL5	PENTCHLL5	10/08/96	0126		
19	PENTCHLL6	PENTCHLL6	10/08/96	0201		
20	PENTCHLL7	PENTCHLL7	10/08/96	0237		
21	PENTCHL-1	PENTCHL-1	10/08/96	0424		
22	HERBCAL-1	HERBCAL-1	10/08/96	0945	13.84	
23	PENTCHL-2	PENTCHL-2	10/08/96	1020		
24	BLK	BLK	10/08/96	1434	13.84	
25	RFIMW2	10809-3	10/08/96	1545	13.85	
26	HERBCAL-2	HERBCAL-2	10/08/96	1621	13.82	
27	PENTCHL-3	PENTCHL-3	10/08/96	1657		
28						
29						
30						
31						
32						

QC LIMITS
S1 = 2,4-Dichlorophenylacet (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII HERB

8D
HERB ANALYTICAL SEQUENCE

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 09/30/96 10/08/96

Instrument ID: CH13

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 13.93

	AT KEARNEY SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	HERBCALL1	HERBCALL1	09/30/96	2015	13.93	
02	HERBCALL2	HERBCALL2	09/30/96	2051	13.93	
03	HERBCALL3	HERBCALL3	09/30/96	2126	13.94	
04	HERBCALL4	HERBCALL4	09/30/96	2202	13.94	
05	HERBCALL5	HERBCALL5	09/30/96	2238	13.94	
06	HERBCALL6	HERBCALL6	09/30/96	2313	13.93	
07	HERBCALL7	HERBCALL7	09/30/96	2349	13.93	
08	HERBCALL8	HERBCALL8	10/01/96	0025	13.93	
09	HERBCALL9	HERBCALL9	10/01/96	0100	13.93	
10	HERBCAL-1	HERBCAL-1	10/01/96	1302	13.93	
11	BLKBS	BLKBS	10/01/96	1414	13.93	
12	BLKBSD	BLKBSD	10/01/96	1449	13.93	
13	HERBCAL-2	HERBCAL-2	10/01/96	1934	13.92	
14	PENTCHLL1	PENTCHLL1	10/07/96	2303		
15	PENTCHLL2	PENTCHLL2	10/07/96	2339		
16	PENTCHLL3	PENTCHLL3	10/08/96	0015		
17	PENTCHLL4	PENTCHLL4	10/08/96	0050		
18	PENTCHLL5	PENTCHLL5	10/08/96	0126		
19	PENTCHLL6	PENTCHLL6	10/08/96	0201		
20	PENTCHLL7	PENTCHLL7	10/08/96	0237		
21	PENTCHL-1	PENTCHL-1	10/08/96	0424		
22	HERBCAL-1	HERBCAL-1	10/08/96	0945	13.93	
23	PENTCHL-2	PENTCHL-2	10/08/96	1020		
24	BLK	BLK	10/08/96	1434	13.94	
25	RFIMW2	10809-3	10/08/96	1545	13.93	
26	HERBCAL-2	HERBCAL-2	10/08/96	1621	13.93	
27	PENTCHL-3	PENTCHL-3	10/08/96	1657		
28						
29						
30						
31						
32						

QC LIMITS
S1 = 2,4-Dichlorophenylacet (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII HERB

Inchcape Testing Services
Environmental Laboratories

SAMPLE DATA

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

AT Kearney SAMPLE NO.

RFIMW2

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Matrix: (soil/water) WATER Lab Sample ID: 10809-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: HERB100796A-I311

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/96

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/96

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	1.00	U
93-72-1	2,4,5-TP Silvex	0.200	U
93-76-5	2,4,5-T	0.200	U
----------	Pentachlorophenol	10.00	U

Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i311.d
Lab Smp Id: 10809-3 Client Smp ID: RFIMW2
Inj Date : 08-OCT-96 15:45:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : 10809-3 1000/10 8150 AB879-89 9-29-96
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ATKLIST.sub
Target Version: 3.21
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 2 2,4-Dichlorophenylacetic acid	13.845	13.823	(0.872)	144782	0.238	4.76(a)
7 2,4-D	16.381	16.346	(1.031)	17051	0.0211	0.421(a)
* 8 4,4-DBOFBP	15.885	15.862	(1.000)	366290	1.00	
10 2,4,5-TP Silvex	17.649	17.649	(1.111)	11832	0.00233	0.0466(a)
9 Pentachlorophenol	16.634	16.527	(1.047)	21735	0.00206	0.0412

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i311.d

Page 2

Date : 08-OCT-96 15:45:00

Client ID: RFIMW2

Instrument: ch14.i

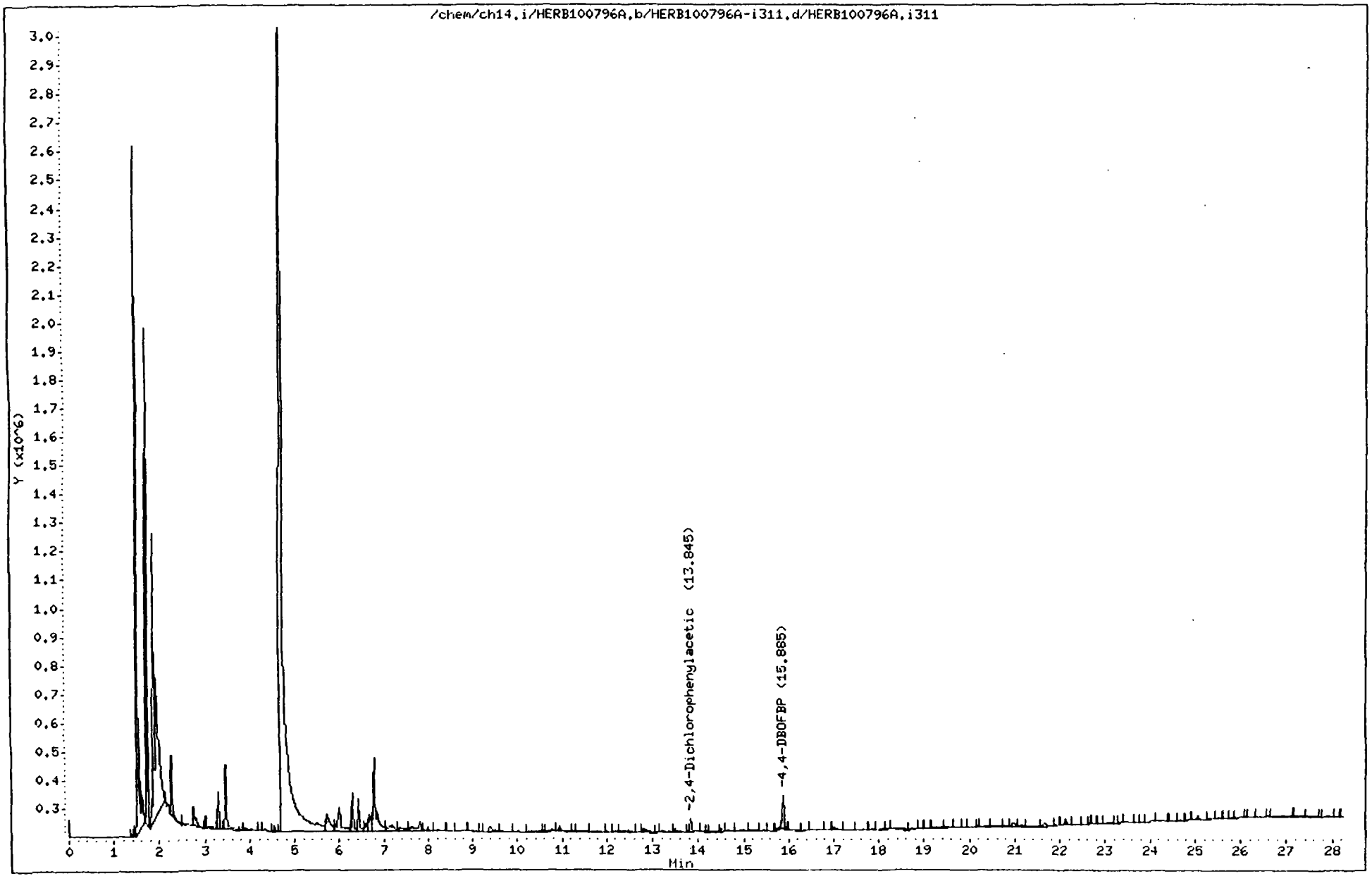
Sample Info: 10809-3 1000/10 8150 AB879-89 9-29-96

Volume Injected (uL): 0.5

Operator: MAKOWALSKI

Column phase: DB-1701

Column diameter: 0.53



611

Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i311.d
Lab Smp Id: 10809-3 Client Smp ID: RFIMW2
Inj Date : 08-OCT-96 15:45:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : 10809-3 1000/10 8150 AB879-89 9-29-96
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:21:37 Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A.i091
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ATKLIST.sub
Target Version: 3.21
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 2 2,4-Dichlorophenylacetic acid	13.934	13.934	(0.960)	122702	0.175	3.50(a)
8 2,4-D	16.270	16.217	(1.121)	2929	0.00336	0.0673(a)
10 2,4,5-TP Silvex	17.467	17.472	(1.204)	4994	0.00107	0.0214(a)
11 2,4,5-T	18.389	18.456	(1.267)	5725	0.00137	0.0275(a)
* 7 4,4-DBOFBP	14.510	14.524	(1.000)	328959	1.00	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i311.d

Date : 08-OCT-96 15:45:00

Client ID: RFINW2

Sample Info: 10809-3 1000/10 8150 AB879-89 9-29-96

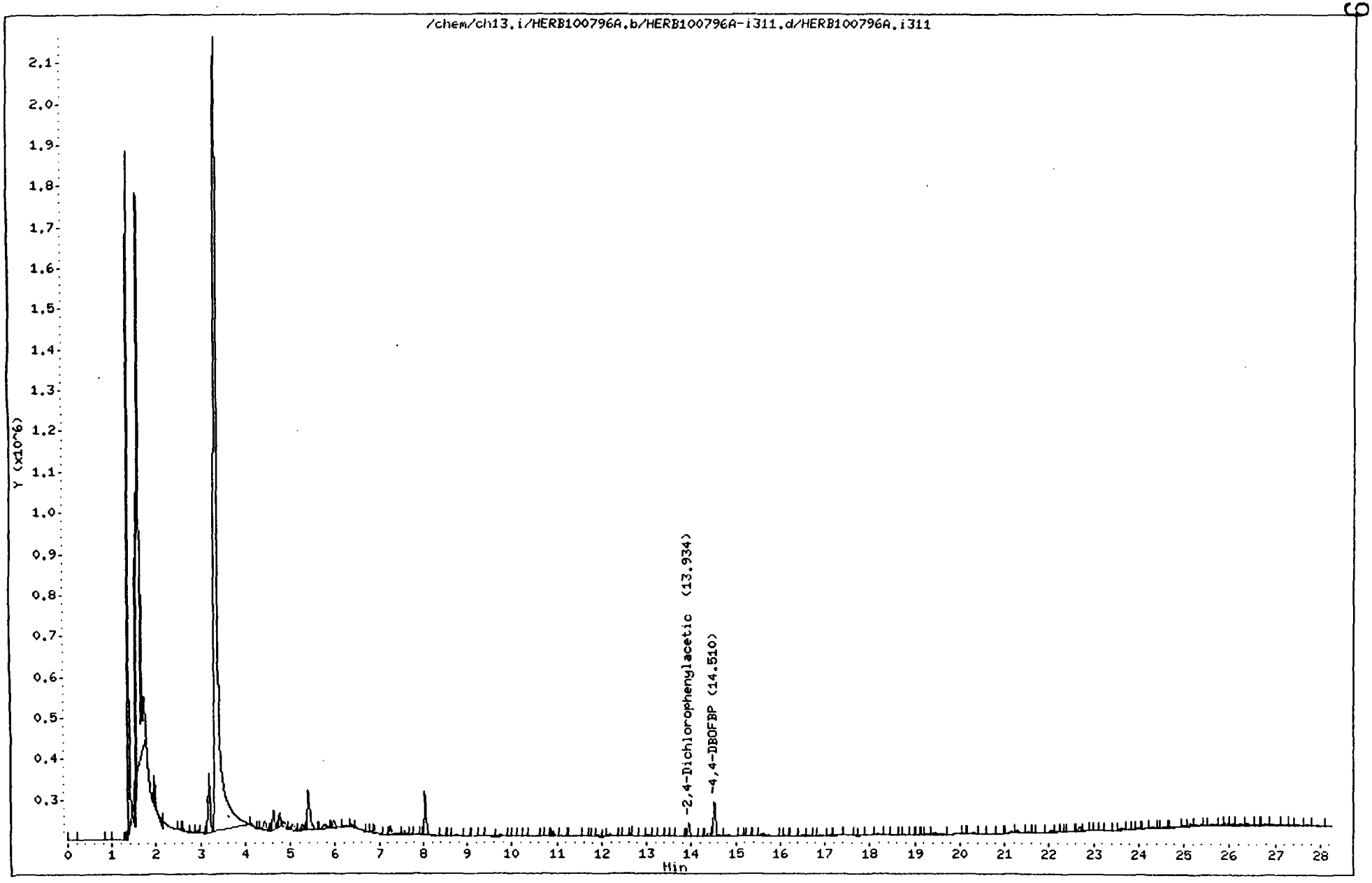
Volume Injected (uL): 0.5

Column phase: DB-608

Instrument: ch13.i

Operator: NAKOWALSKI

Column diameter: 0.53



STANDARDS DATA

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date(s): 09/30/96 10/01/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 2015 0100

LAB FILE ID: RF1: HERB093096A-IRF2: HERB093096A-IRF3: HERB093096A-I
RF4: HERB093096A-IRF5: HERB093096A

COMPOUND	RF1	RF2	RF3	RF4	RF5
2,4-D	2.207	2.450	2.690	2.430	2.339
2,4,5-TP Silvex	41.677	18.656	17.962	15.061	14.425
2,4,5-T	24.892	14.986	14.277	12.875	12.480
2,4-Dichlorophenylacetic aci	3.359	2.097	1.676	1.822	1.779

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date(s): 09/30/96 10/01/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 2015 0100

LAB FILE ID: RF6: HERB093096A-IRF7: HERB093096A-IRF8: HERB093096A-I
RF9: HERB093096A-I

COMPOUND	RF6	RF7	RF8	RF9
2,4-D	2.221	2.126	2.276	2.167
2,4,5-TP Silvex	13.956	13.297	14.337	13.583
2,4,5-T	11.848	11.792	12.770	12.063
2,4-Dichlorophenylacetic aci	1.530	1.520	1.671	1.589

FORM VI HERB

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date(s): 09/30/96 10/01/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 2015 0100

COMPOUND	CURVE	COEFFICENTS A0	A1	%RSD OR R^2
2,4-D	LINR	0.00000000	2.20944661	0.997
2,4,5-TP Silvex	LINR	0.00000000	13.8700897	0.995
2,4,5-T	LINR	0.00000000	12.2553468	0.997
2,4-Dichlorophenylacetic aci	LINR	1.958e-002	1.57720691	0.996

FORM VI HERB

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date(s): 09/30/96 10/01/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 2015 0100

LAB FILE ID: RT1: HERB093096A-IRT2: HERB093096A-IRT3: HERB093096A-I
RT4: HERB093096A-IRT5: HERB093096A

COMPOUND	RT1	RT2	RT3	RT4	RT5
2,4-D	16.377	16.359	16.368	16.363	16.350
2,4,5-TP Silvex	17.583	17.654	17.667	17.662	17.649
2,4,5-T	18.496	18.487	18.496	18.491	18.478
2,4-Dichlorophenylacetic aci	13.845	13.836	13.850	13.850	13.836

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date(s): 09/30/96 10/01/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 2015 0100

LAB FILE ID: RT6: HERB093096A-IRT7: HERB093096A-IRT8: HERB093096A-I
RT9: HERB093096A-I

COMPOUND	RT6	RT7	RT8	RT9
2,4-D	16.341	16.332	16.324	16.337
2,4,5-TP Silvex	17.645	17.636	17.627	17.636
2,4,5-T	18.469	18.460	18.452	18.456
2,4-Dichlorophenylacetic aci	13.832	13.823	13.819	13.828

FORM VI HERB

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date(s): 09/30/96 10/01/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 2015 0100

COMPOUND	MEAN RT	RT WINDOW FROM	TO
2,4-D	16.350	16.150	16.550
2,4,5-TP Silvex	17.640	17.449	17.849
2,4,5-T	18.476	18.278	18.678
2,4-Dichlorophenylacetic aci	13.835	13.636	14.036

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date(s): 10/07/96 10/08/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 2303 0237

LAB FILE ID: RF1: HERB100796A-IRF2: HERB100796A-IRF3: HERB100796A-I
RF4: HERB100796A RF5: HERB100796A-I

COMPOUND	RF1	RF2	RF3	RF4	RF5
Pentachlorophenol	8.841	16.403	29.141	28.021	28.342

FORM VI HERB

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date(s): 10/07/96 10/08/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 2303 0237

LAB FILE ID: RF6: HERB100796A-IRF7: HERB100796A-I

COMPOUND	RF6	RF7
Pentachlorophenol	28.662	29.104

FORM VI HERB

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date(s): 10/07/96 10/08/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 2303 0237

COMPOUND	CURVE	COEFFICENTS A0	A1	%RSD OR R^2
Pentachlorophenol	LINR	0.00000000	28.8196461	0.999

FORM VI HERB

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date(s): 10/07/96 10/08/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 2303 0237

LAB FILE ID: RT1: HERB100796A-IRT2: HERB100796A-IRT3: HERB100796A-I
RT4: HERB100796A RT5: HERB100796A-I

COMPOUND	RT1	RT2	RT3	RT4	RT5
Pentachlorophenol	16.439	16.519	16.532	16.527	16.541

FORM VI HERB

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date(s): 10/07/96 10/08/96

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 2303 0237

LAB FILE ID: RT6: HERB100796A-IRT7: HERB100796A-I

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Pentachlorophenol	16.510	16.527	16.514	16.327	16.727

FORM VI HERB

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date(s): 09/30/96 10/01/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2015 0100

LAB FILE ID: RF0: HERB093096A-IRF0: HERB093096A-IRF0.125: HERB09309
RF0.25: HERB093096RF0.375: HERB09309

COMPOUND	RF1	RF2	RF3	RF4	RF5
2,4-D	4.573	2.998	3.164	3.122	2.972
2,4,5-TP Silvex	16.932	16.373	15.412	14.831	14.540
2,4,5-T	46.102	18.821	15.635	13.873	13.361
2,4-Dichlorophenylacetic aci	2.586	2.452	2.289	2.216	2.186

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date(s): 09/30/96 10/01/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2015 0100

LAB FILE ID: RF0.5: HERB093096ARF0.75: HERB093096RF1: HERB093096A-I
RF0: HERB093096A-I

COMPOUND	RF6	RF7	RF8	RF9
2,4-D	2.695	2.617	2.565	
2,4,5-TP Silvex	14.251	14.015	14.164	
2,4,5-T	12.573	12.356	12.546	
2,4-Dichlorophenylacetic aci	2.059			

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date(s): 09/30/96 10/01/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2015 0100

COMPOUND	CURVE	COEFFICENTS A0	A1	%RSD OR R^2
2,4-D	LINR	0.00000000	2.64599221	0.991
2,4,5-TP Silvex	LINR	0.00000000	14.2081456	0.999
2,4,5-T	LINR	0.00000000	12.6593127	0.993
2,4-Dichlorophenylacetic aci	LINR	0.00000000	2.12970082	0.995

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date(s): 09/30/96 10/01/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2015 0100

LAB FILE ID: RT1: HERB093096A-IRT2: HERB093096A-IRT3: HERB093096A-I
RT4: HERB093096A-IRT5: HERB093096A-I

COMPOUND	RT1	RT2	RT3	RT4	RT5
2,4-D	16.217	16.293	16.293	16.293	16.288
2,4,5-TP Silvex	17.472	17.476	17.476	17.476	17.472
2,4,5-T	18.456	18.416	18.416	18.412	18.412
2,4-Dichlorophenylacetic aci	13.934	13.934	13.943	13.943	13.938

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date(s): 09/30/96 10/01/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2015 0100

LAB FILE ID: RT6: HERB093096A-IRT7: HERB093096A-IRT8: HERB093096A-I
RT9: HERB093096A-I

COMPOUND	RT6	RT7	RT8	RT9
2,4-D	16.275	16.279	16.266	
2,4,5-TP Silvex	17.463	17.467	17.454	
2,4,5-T	18.398	18.398	18.385	
2,4-Dichlorophenylacetic aci	13.930			

FORM VI HERB

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date(s): 09/30/96 10/01/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2015 0100

COMPOUND	MEAN RT	RT WINDOW FROM	TO
2,4-D	16.275	16.017	16.417
2,4,5-TP Silvex	17.470	17.272	17.672
2,4,5-T	18.412	18.256	18.656
2,4-Dichlorophenylacetic aci	13.937	13.734	14.134

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date(s): 10/07/96 10/08/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2303 0237

LAB FILE ID: RF0: HERB100796A RF0: HERB100796A RF0.125: HERB10079
RF0.25: HERB100796RF0.375: HERB10079

COMPOUND	RF0	RF0	RF0.125	RF0.25	RF0.375
Pentachlorophenol	30.275	31.276	27.435	27.966	26.150

FORM VI HERB

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date(s): 10/07/96 10/08/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2303 0237

LAB FILE ID: RF0.5: HERB100796ARF0.75: HERB100796

COMPOUND	RF0.5	RF0.75
Pentachlorophenol	25.760	25.050

FORM VI HERB

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date(s): 10/07/96 10/08/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2303 0237

COMPOUND	CURVE	COEFFICENTS A0	A1	%RSD OR R^2
Pentachlorophenol	LINR	0.00000000	25.5073225	0.999

FORM VI HERB

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date(s): 10/07/96 10/08/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2303 0237

LAB FILE ID: RT1: HERB100796A RT2: HERB100796A RT3: HERB100796A
RT4: HERB100796A RT5: HERB100796A

COMPOUND	RT1	RT2	RT3	RT4	RT5
Pentachlorophenol	16.935	16.922	16.922	16.931	16.931

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date(s): 10/07/96 10/08/96

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2303 0237

LAB FILE ID: RT6: HERB100796A RT7: HERB100796A

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Pentachlorophenol	16.918	16.931	16.927	16.731	17.131

FORM VI HERB

Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB093096A.b\HERB093096A-i051.d
Lab Smp Id: HERBCALL1 Client Smp ID: HERBCALL1
Inj Date : 30-SEP-96 20:15:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L1 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch14.i\HERB093096A.b\14herb0930.m
Meth Date : 06-Nov-96 15:29:20 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 02:04:00 Cal File: HERB090396-i171.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

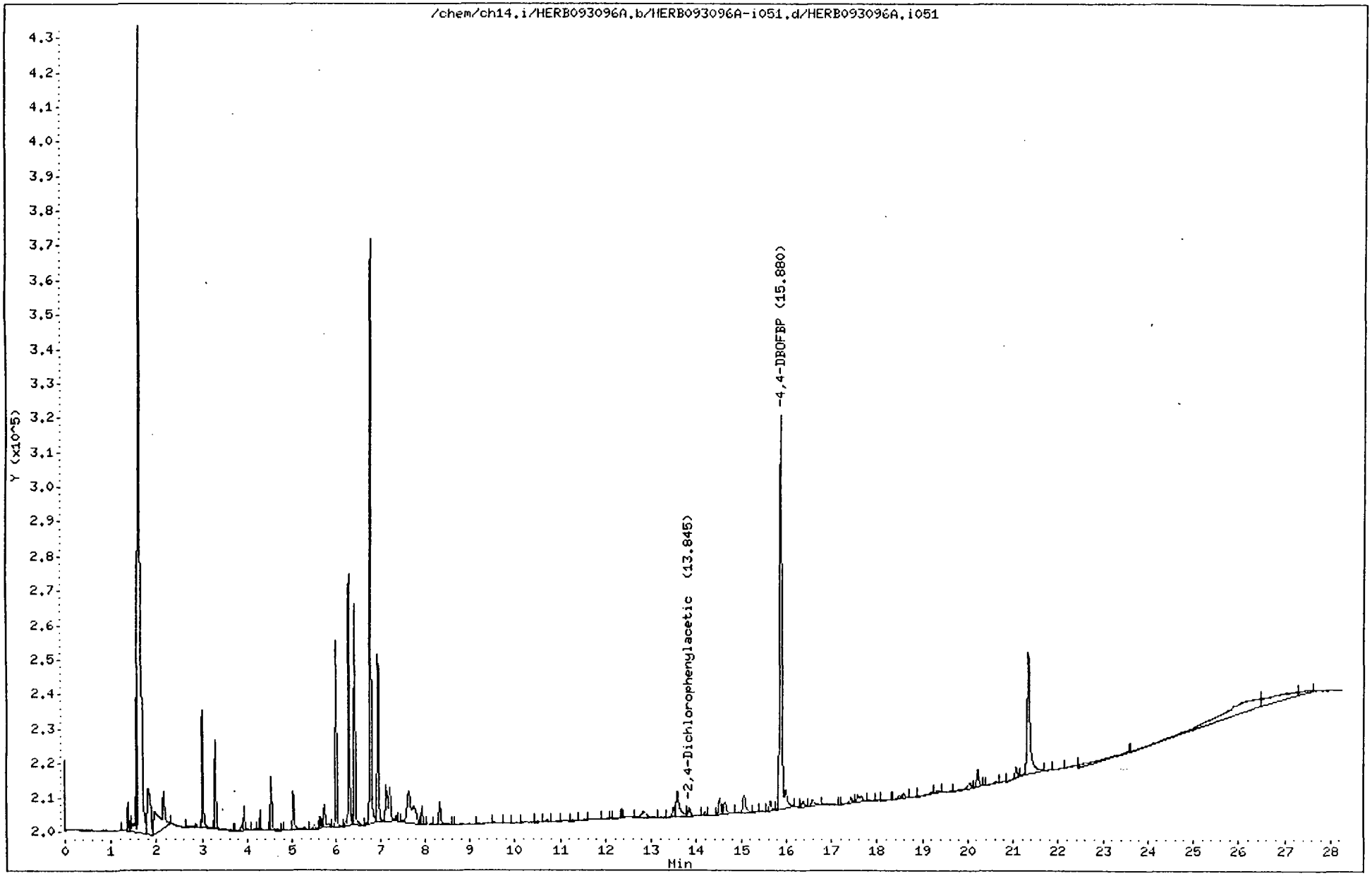
	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.544	4.544	(0.286)	37027	0.0228	0.0247
$	2 2,4-Dichlorophenylacetic acid	13.845	13.836	(0.872)	12426	0.00936	0.00423
	3 Dicamba	14.191	14.187	(0.894)	3150	0.000940	0.000719
	4 MCPP	14.528	14.519	(0.915)	15666	0.939	
	5 MCPA	15.073	15.060	(0.949)	25624	0.935	
	6 Dichlorprop	15.659	15.641	(0.986)	9789	0.00944	
	7 2,4-D	16.377	16.350	(1.031)	8199	0.00940	0.00628
*	8 4,4-DBOFBP	15.880	15.876	(1.000)	395266	1.00	
	10 2,4,5-TP Silvex	17.583	17.649	(1.107)	15650	0.000950	0.00313
	11 2,4,5-T	18.496	18.478	(1.165)	9347	0.000950	0.00193
	12 2,4-DB	19.343	19.320	(1.218)	3447	0.00947	0.00510
	13 Dinoseb	20.229	20.225	(1.274)	17501	0.00472	0.00445

Data File: /chem/ch14.i/HERB093096A.b/HERB093096A-i051.d
Date : 30-SEP-96 20:15:00
Client ID: HERBCALL1
Sample Info: HERBICIDE CAL STD - L1 #AA904-68-2

Instrument: ch14.i

Operator: MAKOWALSKI
Column diameter: 0.53

Column phase: DB-1701



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB093096A.b\HERB093096A-i051.d
Lab Smp Id: HERBCALL1 Client Smp ID: HERBCALL1
Inj Date : 30-SEP-96 20:15:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L1 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch13.i\HERB093096A.b\13herb0930.m
Meth Date : 06-Nov-96 15:35:10 makowalski Quant Type: ISTD
Cal Date : 01-OCT-96 01:00:00 Cal File: HERB093096A-i131.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.247	4.247	(0.293)	24332	0.0228	0.0289
$	2 2,4-Dichlorophenylacetic acid	13.934	13.934	(0.961)	7380	0.00936	0.0124
	3 Dicamba	14.431	14.431	(0.995)	3341	0.000940	0.00131
	4 MCPP	14.289	14.289	(0.985)	7867	0.939	
	5 MCPA	14.958	14.958	(1.031)	25964	0.935	
	6 Dichlorprop	15.468	15.468	(1.066)	10176	0.00944	0.0123
*	7 4,4-DBOFBP	14.506	14.506	(1.000)	304862	1.00	
	8 2,4-D	16.217	16.217	(1.118)	13106	0.00940	0.0151(M)
	10 2,4,5-TP Silvex	17.472	17.472	(1.204)	4904	0.000950	0.00119
	11 2,4,5-T	18.456	18.456	(1.272)	13352	0.000950	0.00362(M)
	12 2,4-DB	19.179	19.179	(1.322)	3304	0.00947	0.00766
	13 Dinoseb	18.580	18.580	(1.281)	17967	0.00472	0.00656(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch13.i/HERB093096A.b/HERB093096A-i051.d

Date : 30-SEP-96 20:15:00

Client ID: HERBCALL1

Sample Info: HERBICIDE CAL STD - L1 #AA904-68-2

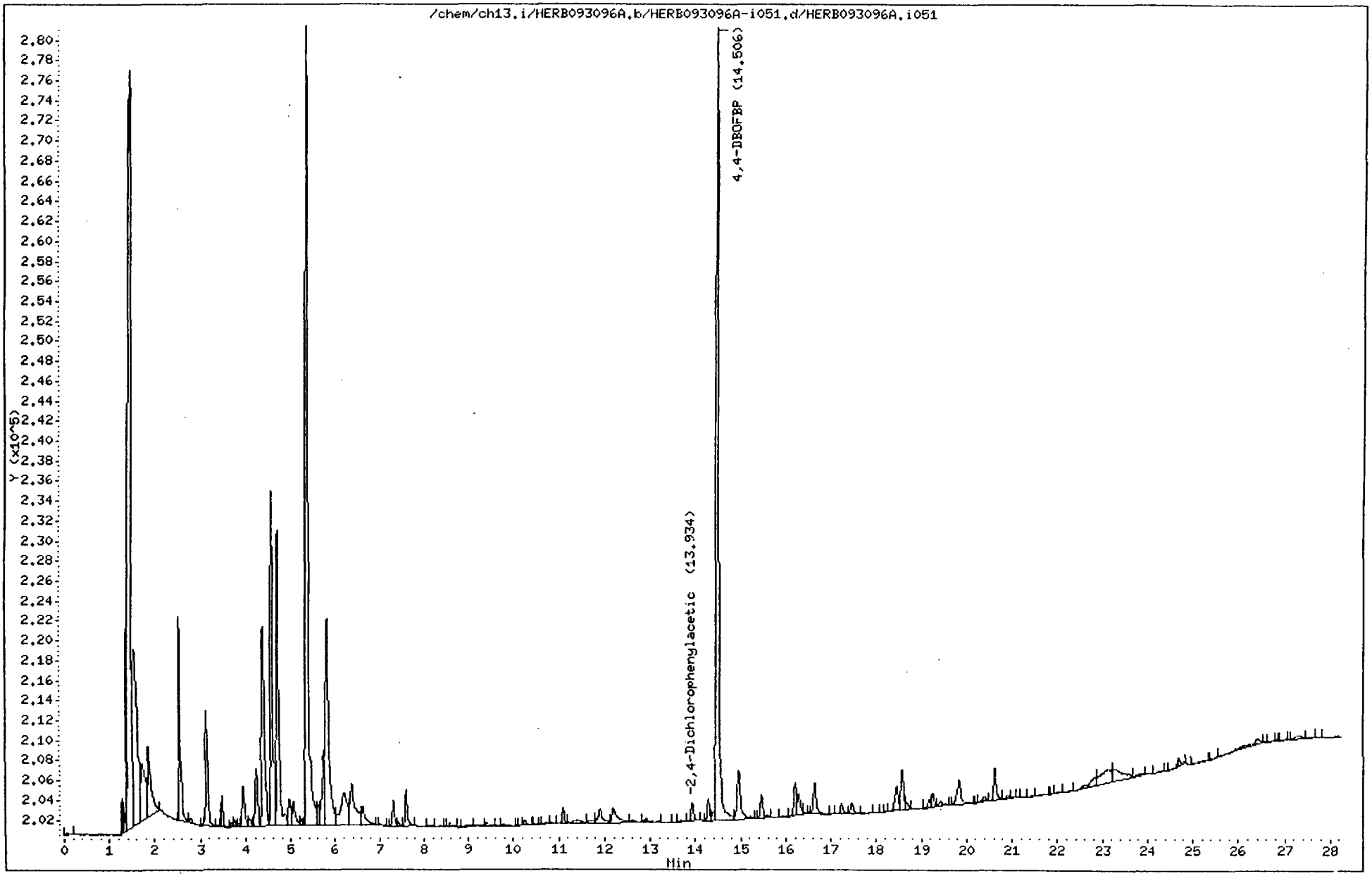
Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI

Column diameter: 0.53

640



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB093096A.b\HERB093096A-i061.d
Lab Smp Id: HERBCALL2 Client Smp ID: HERBCALL2
Inj Date : 30-SEP-96 20:51:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L2 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch14.i\HERB093096A.b\14herb0930.m
Meth Date : 06-Nov-96 15:29:20 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 02:04:00 Cal File: HERB090396-i171.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.540	4.544	(0.286)	152726	0.114	0.103
$	2 2,4-Dichlorophenylacetic acid	13.836	13.836	(0.872)	38466	0.0468	0.0379
	3 Dicamba	14.187	14.187	(0.894)	16471	0.00470	0.00379
	4 MCPP	14.519	14.519	(0.915)	61061	4.69	5.03
	5 MCPA	15.056	15.060	(0.949)	59990	4.67	4.28
	6 Dichlorprop	15.645	15.641	(0.986)	47585	0.0472	0.0332
	7 2,4-D	16.359	16.350	(1.031)	45150	0.0470	0.0351
*	8 4,4-DBOFBP	15.871	15.876	(1.000)	392015	1.00	
	10 2,4,5-TP Silvex	17.654	17.649	(1.112)	34739	0.00475	0.00700
	11 2,4,5-T	18.487	18.478	(1.165)	27847	0.00474	0.00580
	12 2,4-DB	19.329	19.320	(1.218)	21235	0.0473	0.0317
	13 Dinoseb	20.220	20.225	(1.274)	84861	0.0236	0.0218

Data File: /chem/ch14.i/HERB093096A.b/HERB093096A-i061.d

Date : 30-SEP-96 20:51:00

Client ID: HERBCALL2

Sample Info: HERBICIDE CAL STD - L2 #AA904-68-2

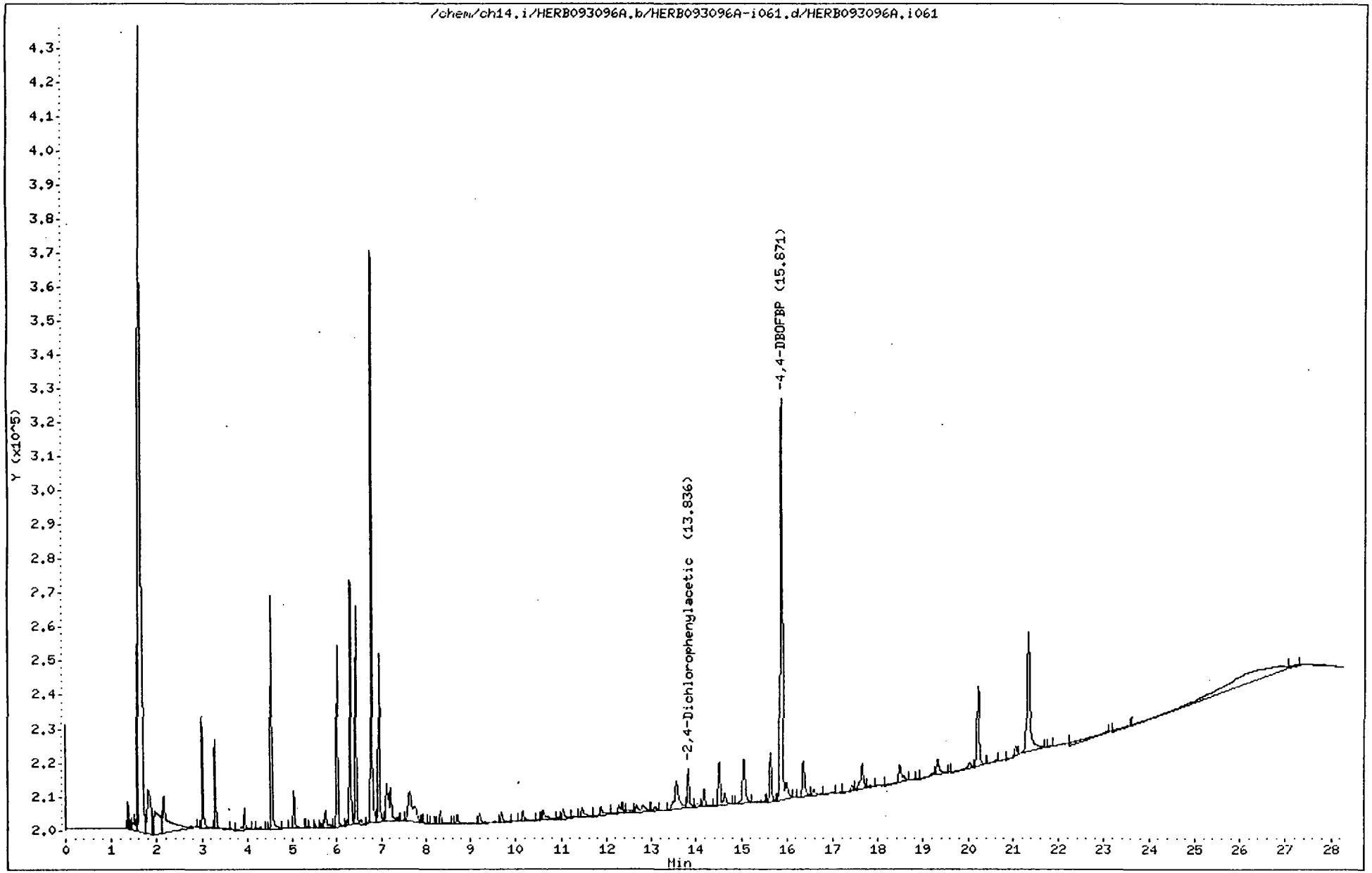
Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53

642



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB093096A.b\HERB093096A-i061.d
Lab Smp Id: HERBCALL2 Client Smp ID: HERBCALL2
Inj Date : 30-SEP-96 20:51:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L2 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch13.i\HERB093096A.b\13herb0930.m
Meth Date : 06-Nov-96 15:35:10 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 02:04:00 Cal File: HERB090396-i171.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.252	4.247	(0.293)	113478	0.114	0.118
$	2 2,4-Dichlorophenylacetic acid	13.934	13.934	(0.960)	32894	0.0468	0.0437
	3 Dicamba	14.399	14.431	(0.992)	9178	0.00470	0.00289
	4 MCPP	14.293	14.289	(0.985)	24214	4.69	5.31
	5 MCPA	14.958	14.958	(1.031)	45660	4.69	3.93
	6 Dichlorprop	15.468	15.468	(1.066)	43478	0.0472	0.0424
*	7 4,4-DBOFBP	14.510	14.506	(1.000)	286693	1.00	
	8 2,4-D	16.293	16.217	(1.123)	40401	0.0470	0.0401
	10 2,4,5-TP Silvex	17.476	17.472	(1.204)	22297	0.00475	0.00651
	11 2,4,5-T	18.416	18.456	(1.269)	25576	0.00474	0.00813
	12 2,4-DB	19.179	19.179	(1.322)	24253	0.0473	0.0514
	13 Dinoseb	18.585	18.580	(1.281)	77916	0.0236	0.0274

Data File: /chem/ch13.i/HERB093096A.b/HERB093096A-i061.d

Date : 30-SEP-96 20:51:00

Client ID: HERBCALL2

Sample Info: HERBICIDE CAL STD - L2 #AA904-68-2

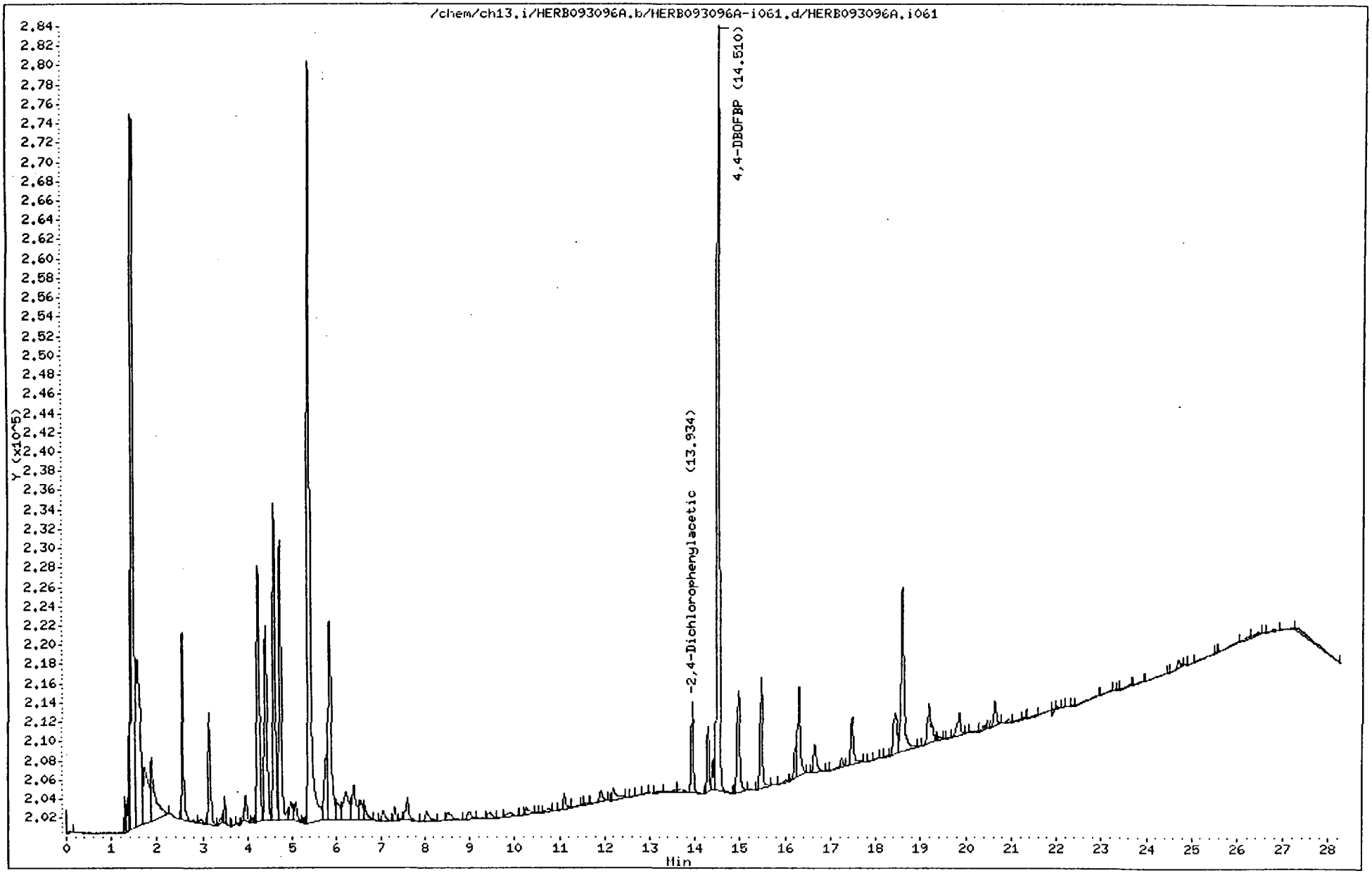
Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI

Column diameter: 0.53

644



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB093096A.b\HERB093096A-i071.d
Lab Smp Id: HERBCALL3 Client Smp ID: HERBCALL3
Inj Date : 30-SEP-96 21:26:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L3 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch14.i\HERB093096A.b\14herb0930.m
Meth Date : 06-Nov-96 15:29:20 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 02:04:00 Cal File: HERB090396-i171.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.557	4.544	(0.287)	353225	0.285	0.226
$	2 2,4-Dichlorophenylacetic acid	13.850	13.836	(0.872)	81136	0.117	0.0884
	3 Dicamba	14.200	14.187	(0.894)	39858	0.0117	0.00877
	4 MCPP	14.532	14.519	(0.915)	107011	11.7	12.3
	5 MCPA	15.069	15.060	(0.949)	114022	11.7	10.8
	6 Dichlorprop	15.659	15.641	(0.986)	112554	0.118	0.0956
	7 2,4-D	16.368	16.350	(1.030)	130246	0.117	0.0984
*	8 4,4-DBOFBP	15.885	15.876	(1.000)	413765	1.00	
	10 2,4,5-TP Silvex	17.667	17.649	(1.112)	88443	0.0119	0.0168
	11 2,4,5-T	18.496	18.478	(1.164)	69707	0.0118	0.0137
	12 2,4-DB	19.338	19.320	(1.217)	68135	0.118	0.0969
	13 Dinoseb	20.238	20.225	(1.274)	210754	0.0591	0.0518

Data File: /chem/ch14.i/HERB093096A.b/HERB093096A-i071.d

Date : 30-SEP-96 21:26:00

Client ID: HERBCALL3

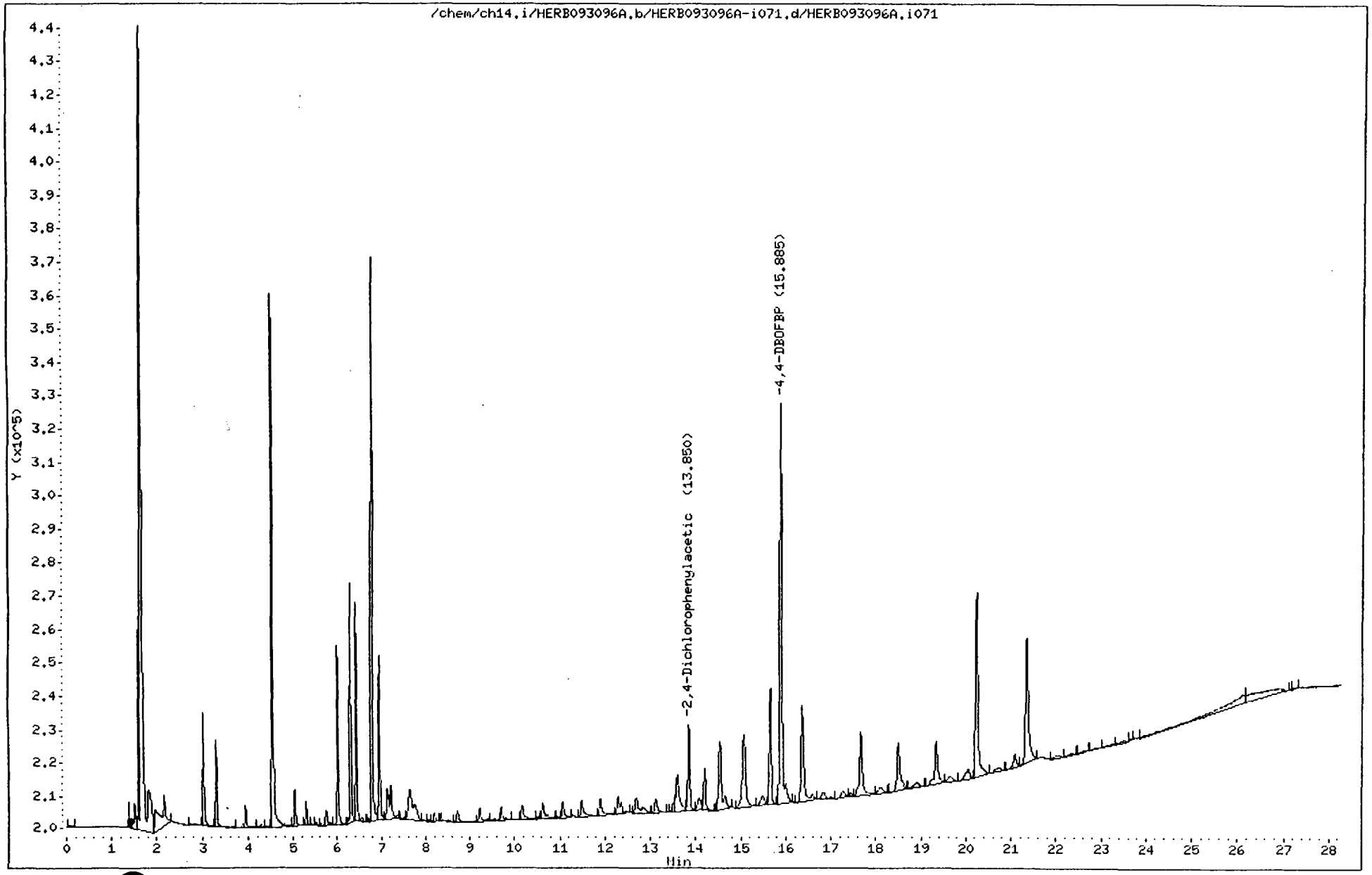
Sample Info: HERBICIDE CAL STD - L3 #AA904-68-2

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB093096A.b\HERB093096A-i071.d
Lab Smp Id: HERBCALL3 Client Smp ID: HERBCALL3
Inj Date : 30-SEP-96 21:26:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L3 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch13.i\HERB093096A.b\13herb0930.m
Meth Date : 06-Nov-96 15:35:10 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 02:04:00 Cal File: HERB090396-i171.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.260	4.247	(0.293)	259397	0.285	0.260
$	2 2,4-Dichlorophenylacetic acid	13.943	13.934	(0.960)	80349	0.117	0.102
	3 Dicamba	14.408	14.431	(0.992)	29458	0.0117	0.00892
	4 MCPP	14.302	14.289	(0.985)	50091	11.7	12.1
	5 MCPA	14.967	14.958	(1.031)	87645	11.7	11.7
	6 Dichlorprop	15.477	15.468	(1.066)	109626	0.118	0.104
*	7 4,4-DBOFBP	14.519	14.506	(1.000)	300018	1.00	
	8 2,4-D	16.293	16.217	(1.122)	111056	0.117	0.107
	10 2,4,5-TP Silvex	17.476	17.472	(1.204)	55025	0.0119	0.0153
	11 2,4,5-T	18.416	18.456	(1.268)	55351	0.0118	0.0168
	12 2,4-DB	19.179	19.179	(1.321)	56415	0.118	0.114
	13 Dinoseb	18.589	18.580	(1.280)	182196	0.0591	0.0616

Data File: /chem/ch13.i/HERB093096A.b/HERB093096A-i071.d

Date : 30-SEP-96 21:26:00

Client ID: HERBCALL3

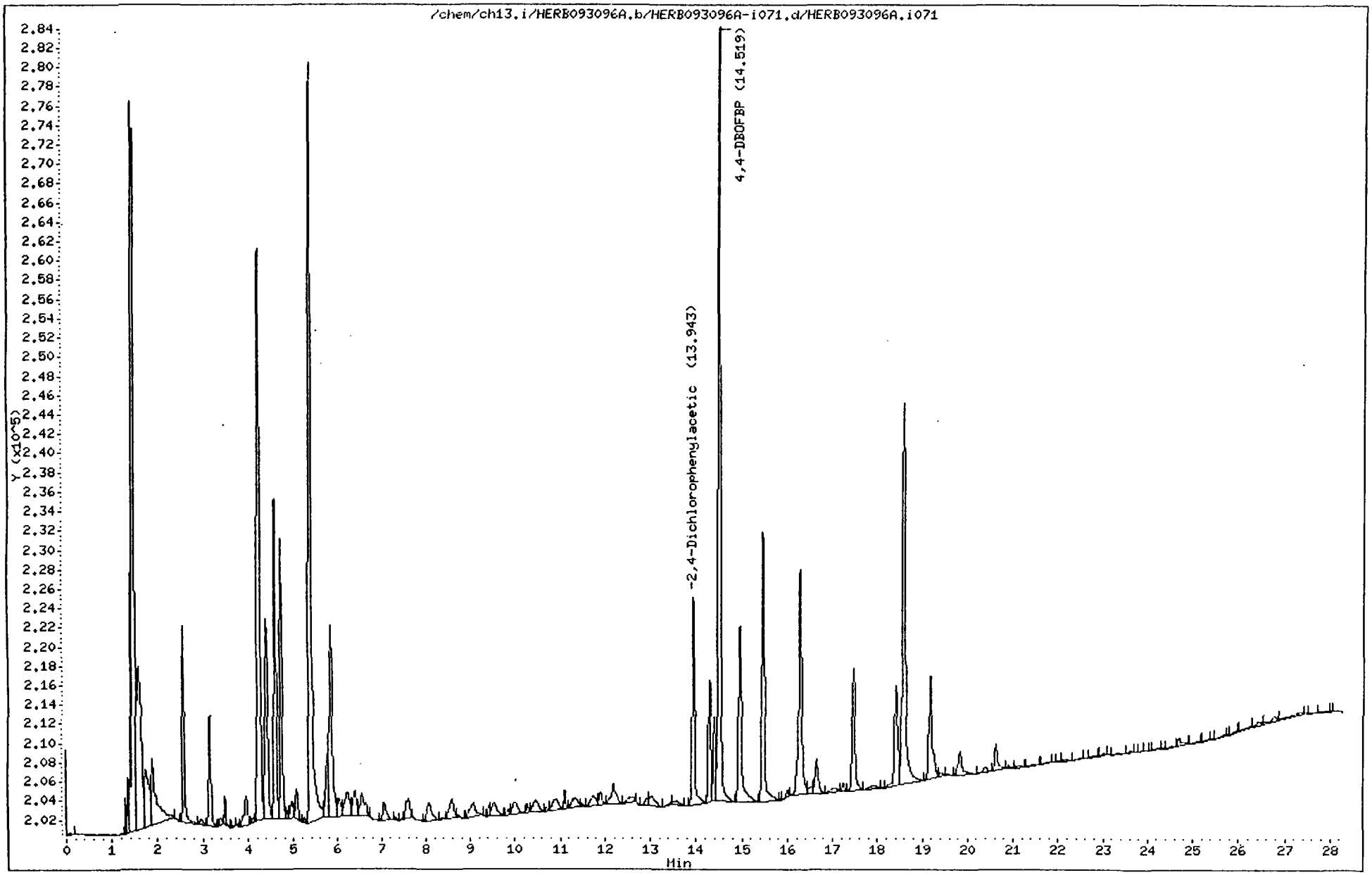
Sample Info: HERBICIDE CAL STD - L3 #AA904-68-2

Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB093096A.b\HERB093096A-i081.d
Lab Smp Id: HERBCALL4 Client Smp ID: HERBCALL4
Inj Date : 30-SEP-96 22:02:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L4 #AA904-71-6
Misc Info :
Comment :
Method : \chem\ch14.i\HERB093096A.b\14herb0930.m
Meth Date : 06-Nov-96 15:29:20 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 02:04:00 Cal File: HERB090396-i171.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

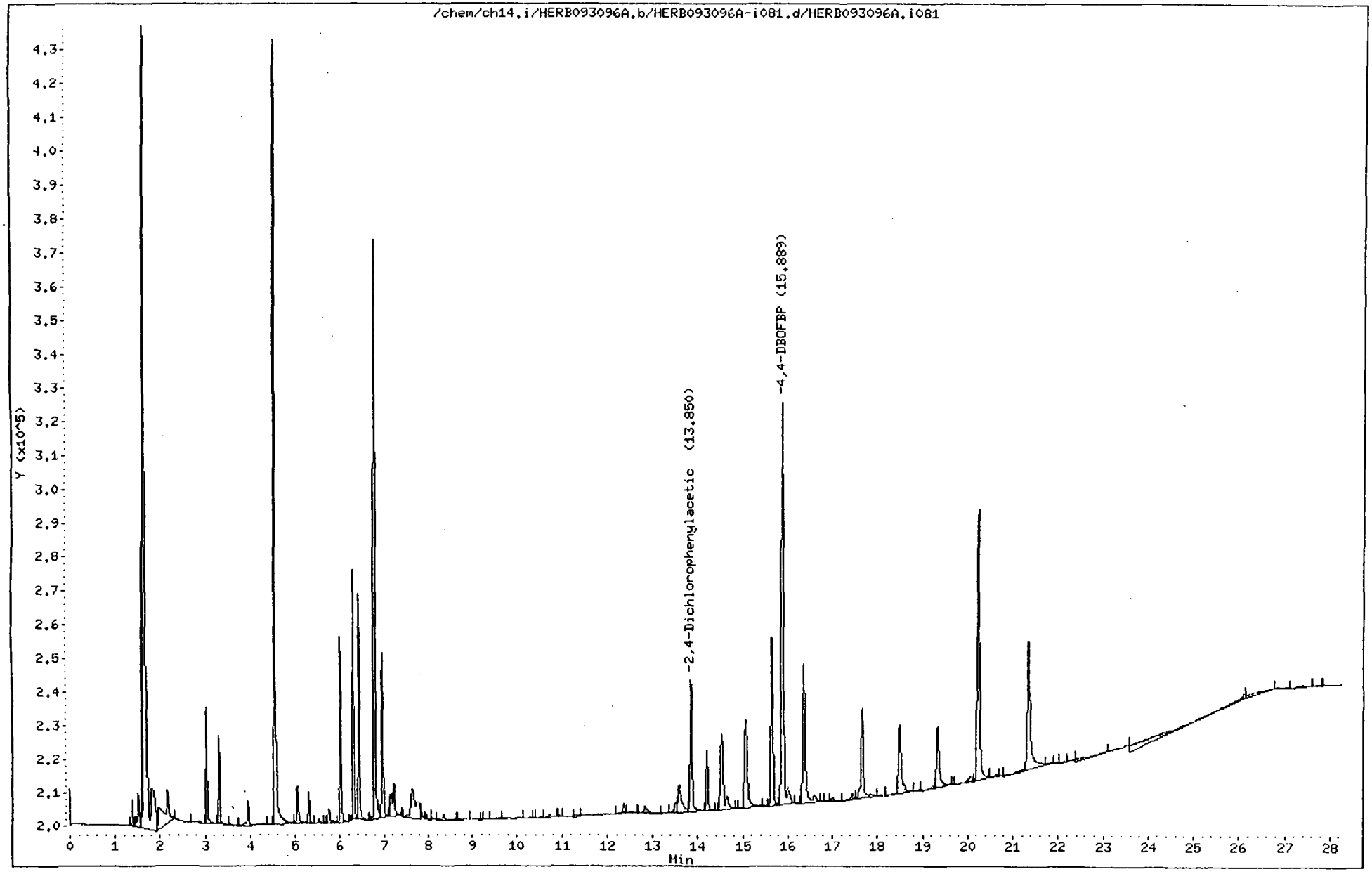
	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.557	4.544	(0.287)	507924	0.427	0.345
$	2 2,4-Dichlorophenylacetic acid	13.850	13.836	(0.872)	124906	0.175	0.146
	3 Dicamba	14.200	14.187	(0.894)	53964	0.0176	0.0127
	4 MCPP	14.532	14.519	(0.915)	108865	17.6	14.5
	5 MCPA	15.069	15.060	(0.948)	118538	17.5	13.4
	6 Dichlorprop	15.654	15.641	(0.985)	161801	0.177	0.152
	7 2,4-D	16.363	16.350	(1.030)	167525	0.176	0.141
*	8 4,4-DBOFBP	15.889	15.876	(1.000)	391755	1.00	
	10 2,4,5-TP Silvex	17.662	17.649	(1.112)	105027	0.0178	0.0209
	11 2,4,5-T	18.491	18.478	(1.164)	89781	0.0178	0.0186
	12 2,4-DB	19.329	19.320	(1.217)	88698	0.178	0.135
	13 Dinoseb	20.234	20.225	(1.273)	289311	0.0886	0.0765

Data File: /chem/ch14.i/HERB093096A.b/HERB093096A-i081.d
Date : 30-SEP-96 22:02:00
Client ID: HERBCALL4
Sample Info: HERBICIDE CAL STD - L4 #AA904-71-6

Instrument: ch14.i

Operator: NAKOWALSKI
Column diameter: 0.53

Column phase: DB-1701



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB093096A.b\HERB093096A-i081.d
Lab Smp Id: HERBCALL4 Client Smp ID: HERBCALL4
Inj Date : 30-SEP-96 22:02:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L4 #AA904-71-6
Misc Info :
Comment :
Method : \chem\ch13.i\HERB093096A.b\13herb0930.m
Meth Date : 06-Nov-96 15:35:10 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 02:04:00 Cal File: HERB090396-i171.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.260	4.247	(0.293)	373571	0.427	0.380
$	2 2,4-Dichlorophenylacetic acid	13.943	13.934	(0.960)	115549	0.175	0.150
	3 Dicamba	14.408	14.431	(0.992)	46975	0.0176	0.0145
	4 MCPP	14.302	14.289	(0.985)	72184	17.5	18.2
	5 MCPA	14.963	14.958	(1.031)	109279	17.5	16.6
	6 Dichlorprop	15.477	15.468	(1.066)	150231	0.177	0.151
*	7 4,4-DBOFBP	14.519	14.506	(1.000)	297883	1.00	
	8 2,4-D	16.293	16.217	(1.122)	163665	0.176	0.162
	10 2,4,5-TP Silvex	17.476	17.472	(1.204)	78639	0.0178	0.0220
	11 2,4,5-T	18.412	18.456	(1.268)	73557	0.0178	0.0223
	12 2,4-DB	19.174	19.179	(1.321)	80837	0.178	0.165
	13 Dinoseb	18.589	18.580	(1.280)	255940	0.0886	0.0876

Data File: /chem/ch13.i/HERB093096A.b/HERB093096A-i081.d

Date : 30-SEP-96 22:02:00

Client ID: HERBCALL4

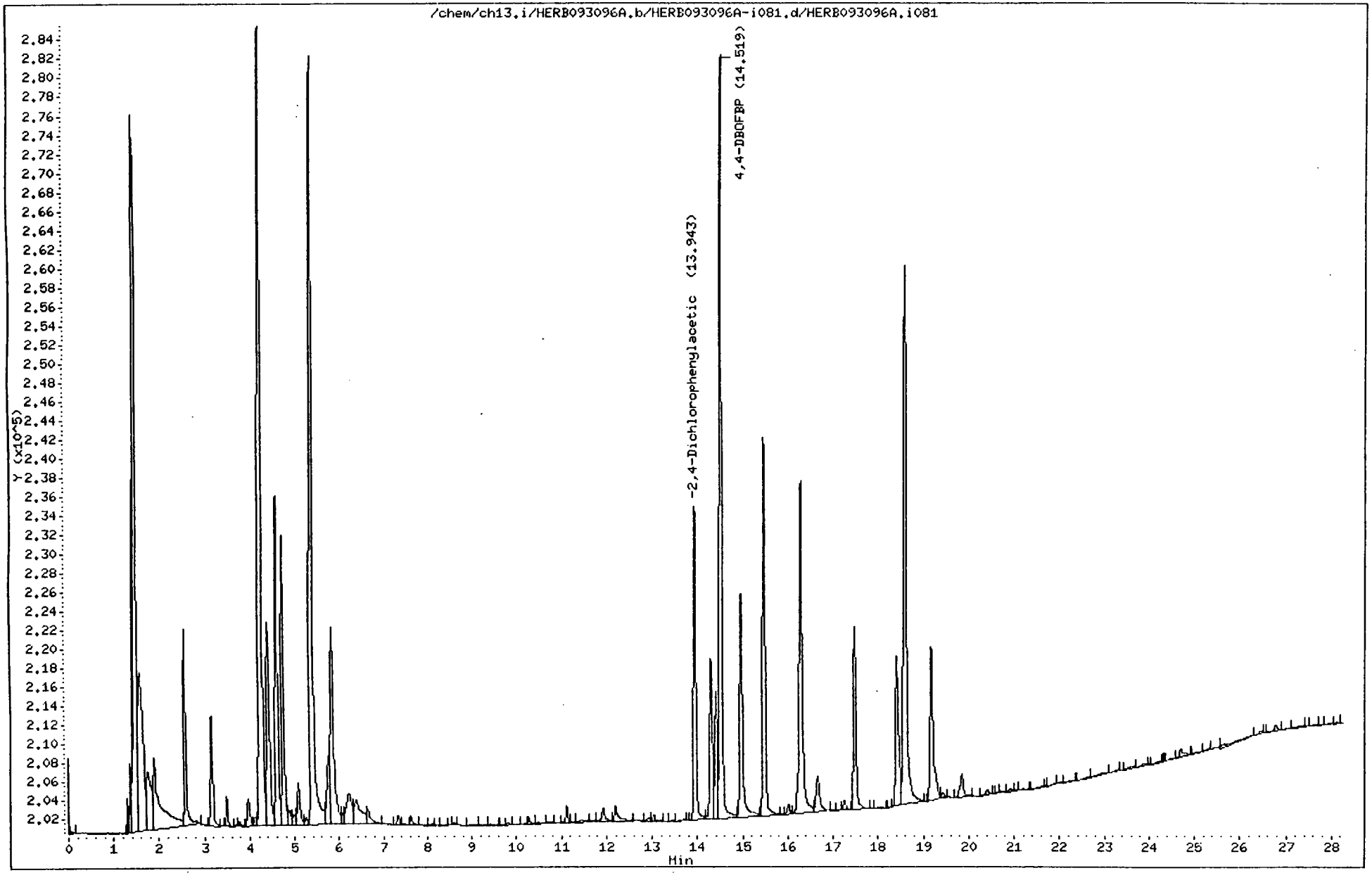
Sample Info: HERBICIDE CAL STD - L4 #AA904-71-6

Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB093096A.b\HERB093096A-i091.d
Lab Smp Id: HERBCALL5 Client Smp ID: HERBCALL5
Inj Date : 30-SEP-96 22:38:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L5 #AA904-79-3
Misc Info :
Comment :
Method : \chem\ch14.i\HERB093096A.b\14herb0930.m
Meth Date : 06-Nov-96 15:29:20 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 02:04:00 Cal File: HERB090396-i171.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.544	4.544	(0.286)	696120	0.569	0.458
$	2 2,4-Dichlorophenylacetic acid	13.836	13.836	(0.872)	166638	0.234	0.131
	3 Dicamba	14.187	14.187	(0.894)	73171	0.0235	0.0165
	4 MCPP	14.519	14.519	(0.915)	124816	23.5	15.9
	5 MCPA	15.060	15.060	(0.949)	138449	23.4	10.5
	6 Dichlorprop	15.641	15.641	(0.985)	214651	0.236	0.152
	7 2,4-D	16.350	16.350	(1.030)	220075	0.235	0.154
*	8 4,4-DBOFBP	15.876	15.876	(1.000)	400380	1.00	
	10 2,4,5-TP Silvex	17.649	17.649	(1.112)	137454	0.0238	0.0271
	11 2,4,5-T	18.478	18.478	(1.164)	118427	0.0237	0.0242
	12 2,4-DB	19.320	19.320	(1.217)	108085	0.237	0.158
	13 Dinoseb	20.225	20.225	(1.274)	389327	0.118	0.0976

Data File: /chem/ch14.i/HERB093096A.b/HERB093096A-i091.d

Date : 30-SEP-96 22:38:00

Client ID: HERBCALL5

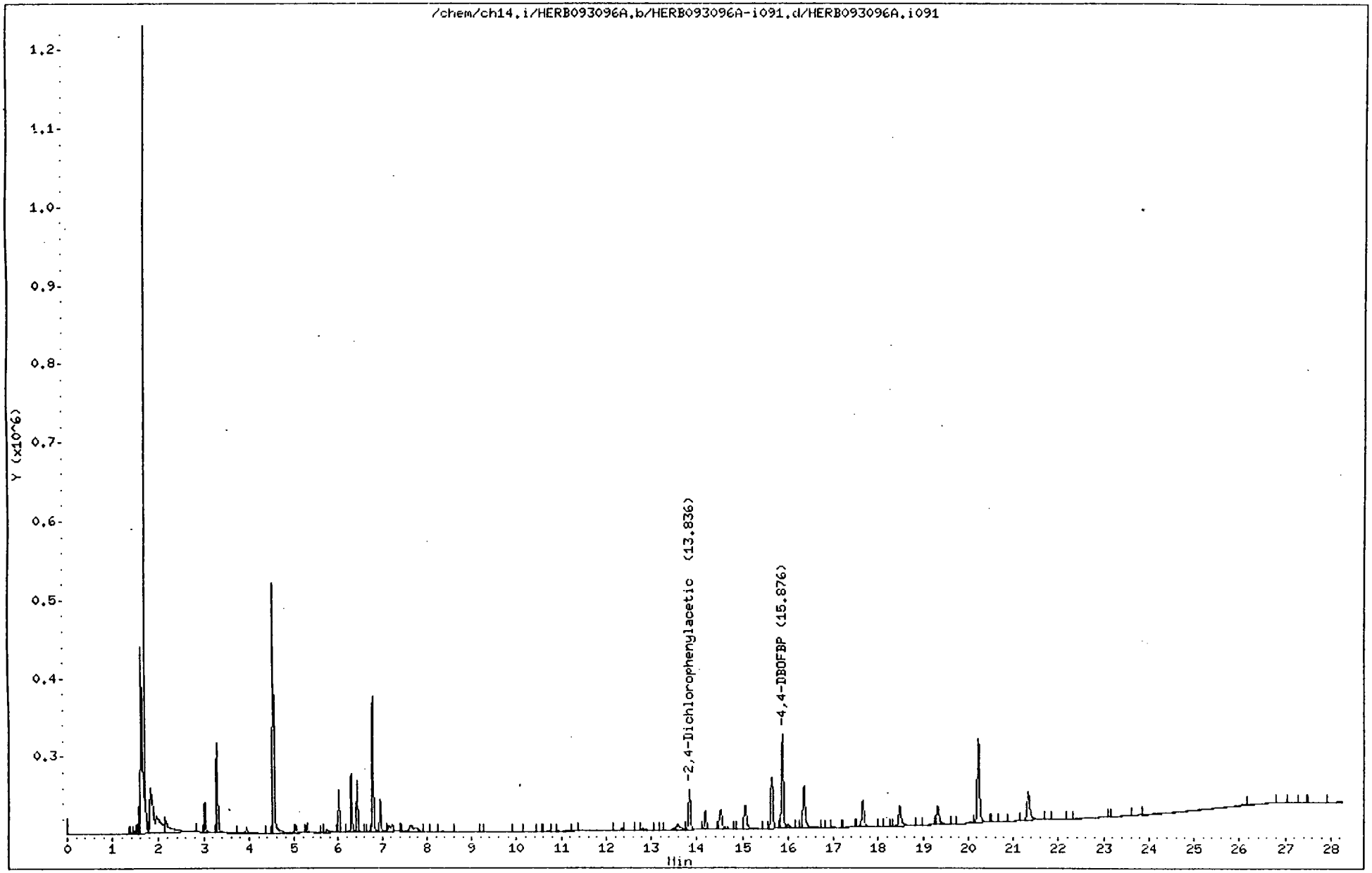
Sample Info: HERBICIDE CAL STD - L5 #AA904-79-3

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB093096A.b\HERB093096A-i091.d
Lab Smp Id: HERBCALL5 Client Smp ID: HERBCALL5
Inj Date : 30-SEP-96 22:38:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L5 #AA904-79-3
Misc Info :
Comment :
Method : \chem\ch13.i\HERB093096A.b\13herb0930.m
Meth Date : 06-Nov-96 15:35:10 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 02:04:00 Cal File: HERB090396-i171.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.256	4.247	(0.245)	463390	0.569	0.459(M)
$	2 2,4-Dichlorophenylacetic acid	13.938	13.934	(0.882)	154235	0.234	0.194(M)
	3 Dicamba	14.408	14.431	(0.904)	62191	0.0235	0.0186(M)
	4 MCPP	14.298	14.289	(0.911)	88094	23.5	22.0(M)
	5 MCPA	14.963	14.958	(0.940)	129713	23.5	17.0(M)
	6 Dichlorprop	15.472	15.468	(0.975)	196085	0.236	0.181(M)
*	7 4,4-DBOFBP	14.515	14.506	(1.000)	301500	1.00	(M)
	8 2,4-D	16.288	16.217	(1.015)	210549	0.235	0.198(M)
	10 2,4,5-TP Silvex	17.472	17.472	(1.082)	104336	0.0238	0.0290(M)
	11 2,4,5-T	18.412	18.456	(1.139)	95470	0.0237	0.0289(M)
	12 2,4-DB	19.170	19.179	(0.000)	108119	0.237	0.218(M)
	13 Dinoseb	18.589	18.580	(1.222)	338684	0.118	0.113(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ch13.i/HERB093096A.b/HERB093096A-i091.d

Date : 30-SEP-96 22:38:00

Client ID: HERBCALL5

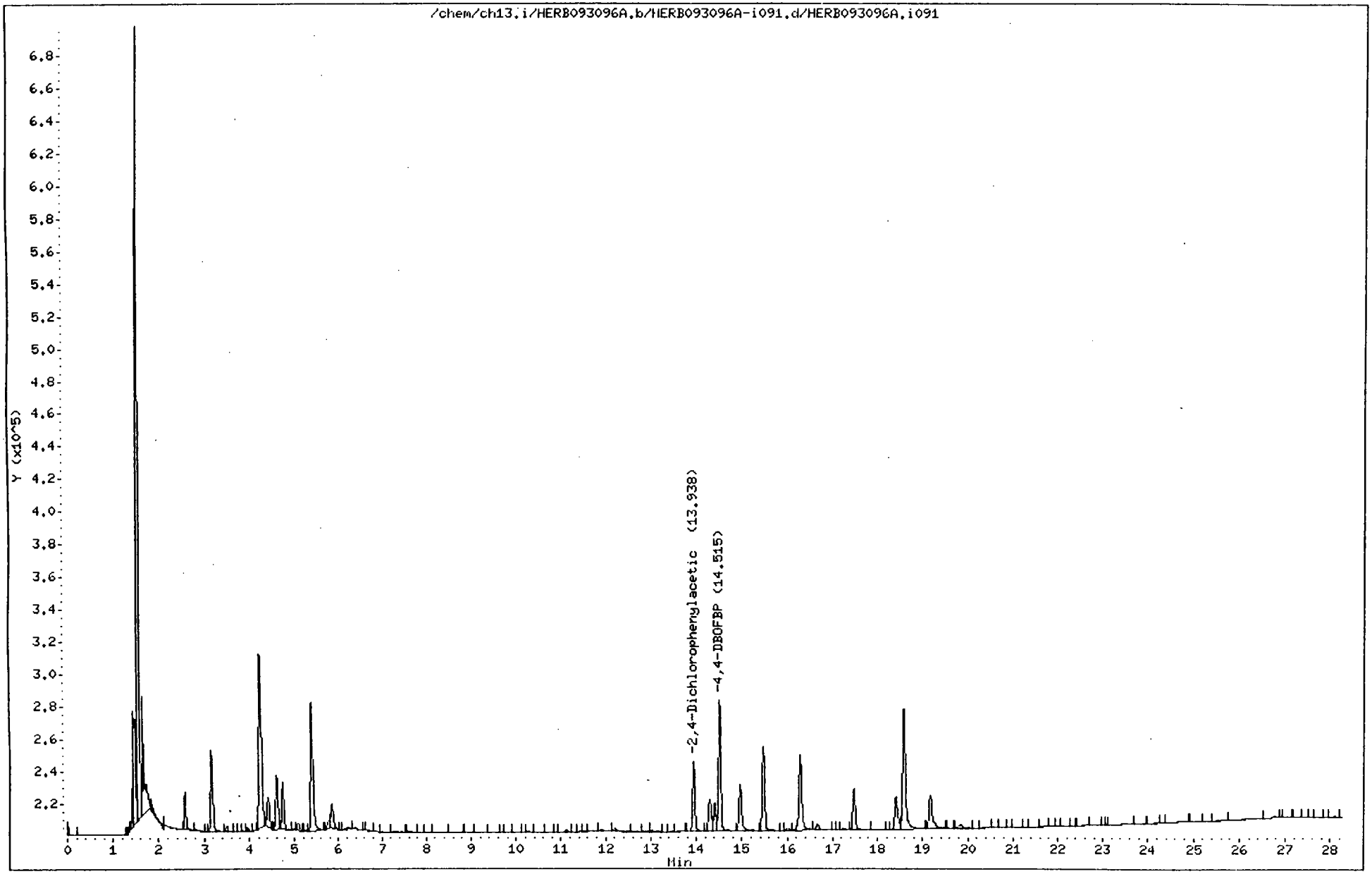
Sample Info: HERBICIDE CAL STD - L5 #AA904-79-3

Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB093096A.b\HERB093096A-i101.d
Lab Smp Id: HERBCALL6 Client Smp ID: HERBCALL6
Inj Date : 30-SEP-96 23:13:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L6 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch14.i\HERB093096A.b\14herb0930.m
Meth Date : 06-Nov-96 15:29:20 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 02:38:00 Cal File: HERB090396-i181.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.544	4.544	(0.286)	1067222	0.854	0.714
$	2 2,4-Dichlorophenylacetic acid	13.832	13.836	(0.872)	227550	0.351	0.220
	3 Dicamba	14.182	14.187	(0.894)	110812	0.0352	0.0242
	4 MCPP	14.519	14.519	(0.915)	164297	35.2	24.2
	5 MCPA	15.051	15.060	(0.948)	189705	35.1	21.9
	6 Dichlorprop	15.636	15.641	(0.985)	309519	0.354	0.244
	7 2,4-D	16.341	16.350	(1.030)	331350	0.352	0.338
*	8 4,4-DBOFBP	15.871	15.876	(1.000)	423792	1.00	
	10 2,4,5-TP Silvex	17.645	17.649	(1.112)	211153	0.0357	0.0386
	11 2,4,5-T	18.469	18.478	(1.164)	178245	0.0355	0.0346
	12 2,4-DB	19.312	19.320	(1.217)	170758	0.355	0.255
	13 Dinoseb	20.220	20.225	(1.274)	580974	0.177	0.154

Data File: /chem/ch14.i/HERB093096A.b/HERB093096A-i101.d

Date : 30-SEP-96 23:13:00

Client ID: HERBCALL6

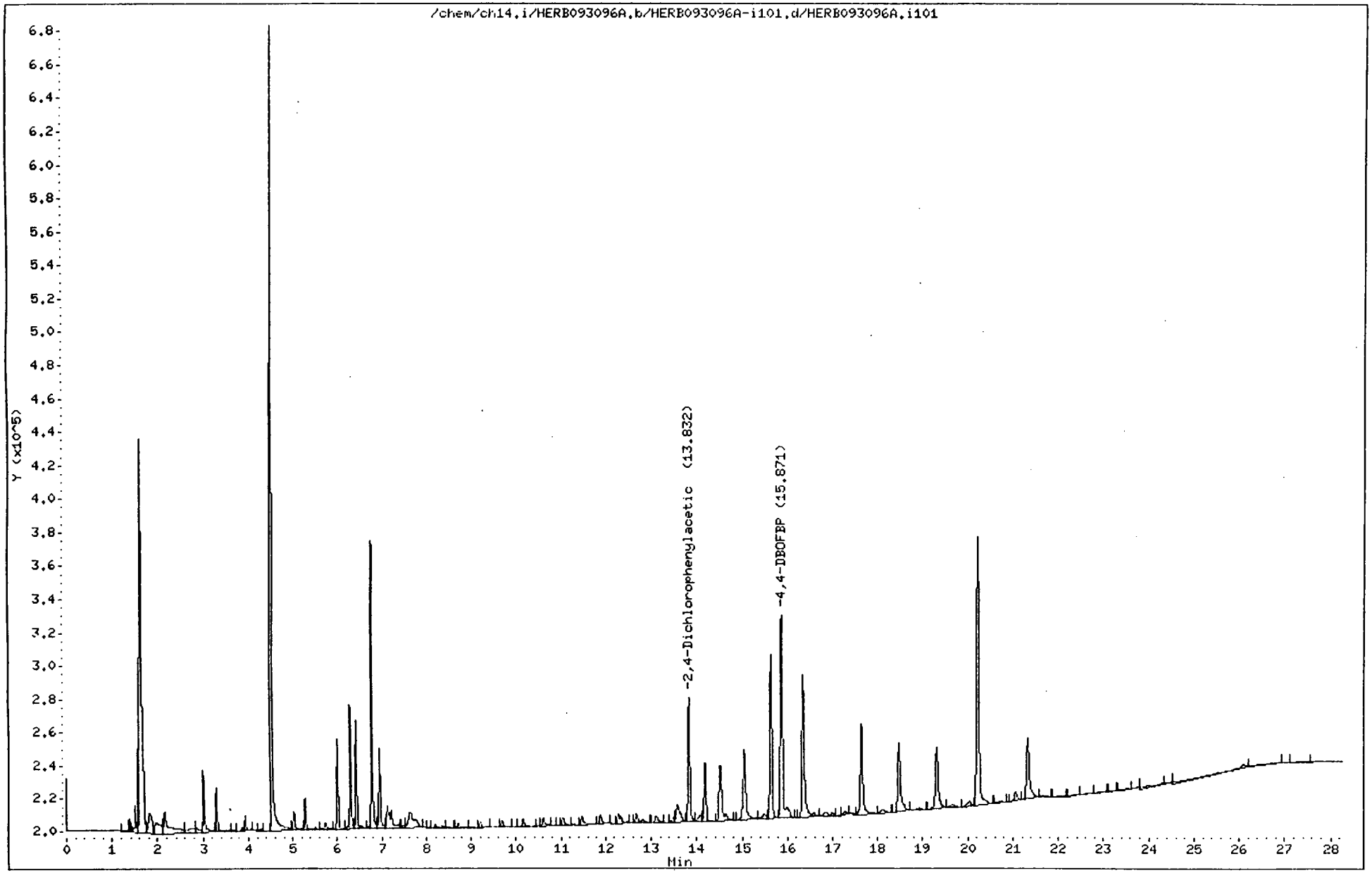
Sample Info: HERBICIDE CAL STD - L6 #AA904-68-2

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB093096A.b\HERB093096A-i101.d
Lab Smp Id: HERBCALL6 Client Smp ID: HERBCALL6
Inj Date : 30-SEP-96 23:13:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L6 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch13.i\HERB093096A.b\13herb0930.m
Meth Date : 06-Nov-96 15:35:10 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 02:38:00 Cal File: HERB090396-i181.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

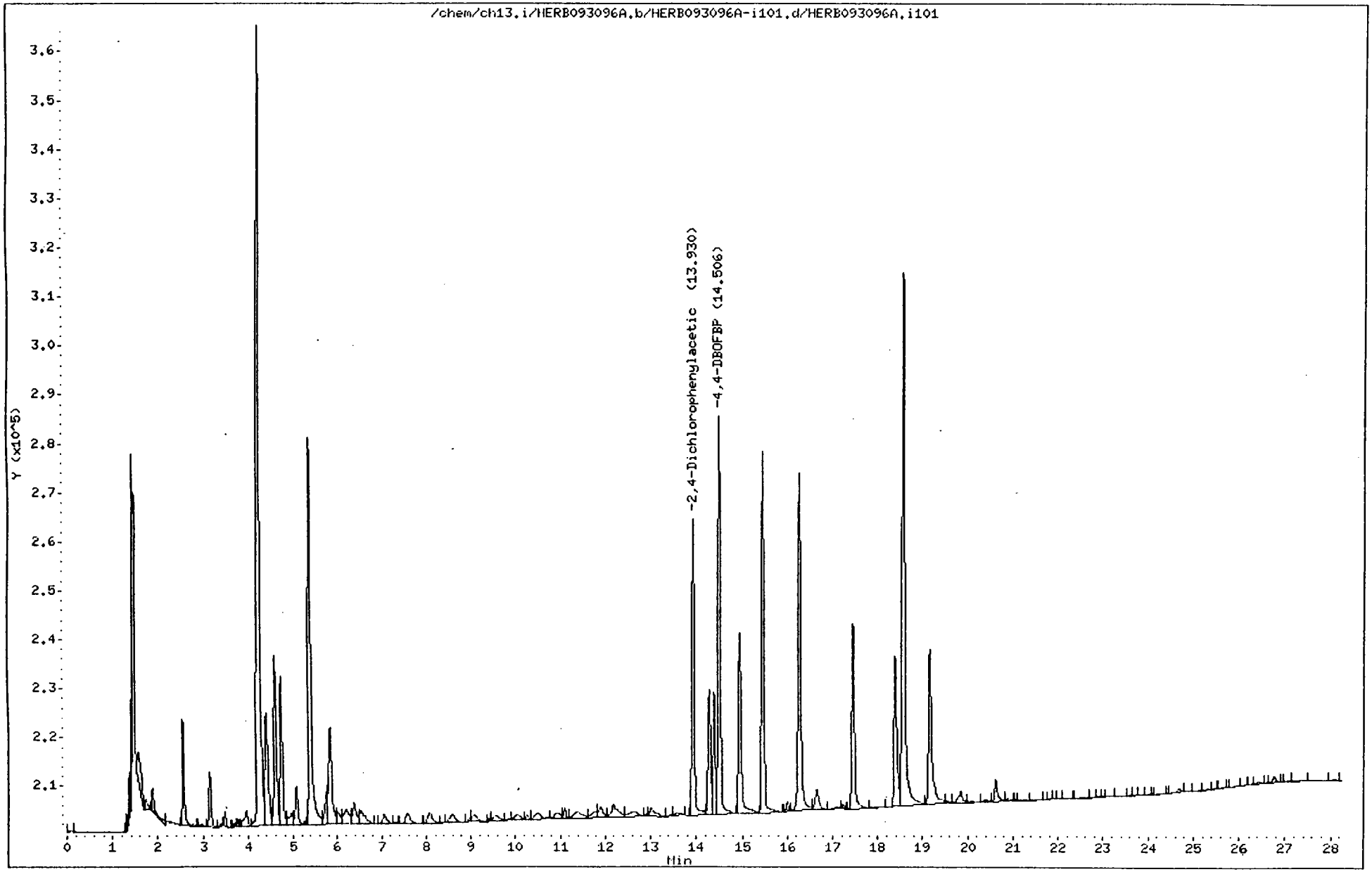
	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.247	4.247	(0.293)	729907	0.854	0.728
$	2 2,4-Dichlorophenylacetic acid	13.930	13.934	(0.960)	219613	0.351	0.280
	3 Dicamba	14.395	14.431	(0.992)	87986	0.0352	0.0266
	4 MCPP	14.289	14.289	(0.985)	106957	35.2	26.9
	5 MCPA	14.954	14.958	(1.031)	160463	35.2	24.3
	6 Dichlorprop	15.463	15.468	(1.066)	278900	0.354	0.339
*	7 4,4-DBOFBP	14.506	14.506	(1.000)	303835	1.00	
	8 2,4-D	16.275	16.217	(1.122)	288212	0.352	0.332
	10 2,4,5-TP Silvex	17.463	17.472	(1.204)	154578	0.0357	0.0418
	11 2,4,5-T	18.398	18.456	(1.268)	135612	0.0355	0.0401
	12 2,4-DB	19.156	19.179	(1.321)	165283	0.355	0.335
	13 Dinoseb	18.576	18.580	(1.281)	480780	0.177	0.167

Data File: /chem/ch13.i/HERB093096A.b/HERB093096A-i101.d
Date : 30-SEP-96 23:13:00
Client ID: HERBCALL6
Sample Info: HERBICIDE CAL STD - L6 #AA904-68-2

Instrument: ch13.i

Operator: MAKOWALSKI
Column diameter: 0.53

Column phase: DB-608



099

Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB093096A.b\HERB093096A-i111.d
Lab Smp Id: HERBCALL7 Client Smp ID: HERBCALL7
Inj Date : 30-SEP-96 23:49:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L7 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch14.i\HERB093096A.b\14herb0930.m
Meth Date : 06-Nov-96 15:29:20 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 03:12:00 Cal File: HERB090396-i191.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.535	4.544	(0.286)	1355887	1.14	0.960
$	2 2,4-Dichlorophenylacetic acid	13.823	13.836	(0.871)	284979	0.468	0.315
	3 Dicamba	14.178	14.187	(0.894)	139865	0.0470	0.0355
	4 MCPP	14.510	14.519	(0.915)	170913	46.9	29.5
	5 MCPA	15.047	15.060	(0.948)	210744	46.7	28.9
	6 Dichlorprop	15.632	15.641	(0.985)	398598	0.472	0.358
	7 2,4-D	16.332	16.350	(1.029)	400181	0.470	0.433
*	8 4,4-DBOFBP	15.867	15.876	(1.000)	400530	1.00	
	10 2,4,5-TP Silvex	17.636	17.649	(1.111)	252972	0.0475	0.0485
	11 2,4,5-T	18.460	18.478	(1.163)	223876	0.0474	0.0465
	12 2,4-DB	19.303	19.320	(1.217)	222081	0.473	0.384
	13 Dinoseb	20.212	20.225	(1.274)	749412	0.236	0.235

Data File: /chem/ch14.i/HERB093096A.b/HERB093096A-i111.d

Date : 30-SEP-96 23:49:00

Client ID: HERBCALL7

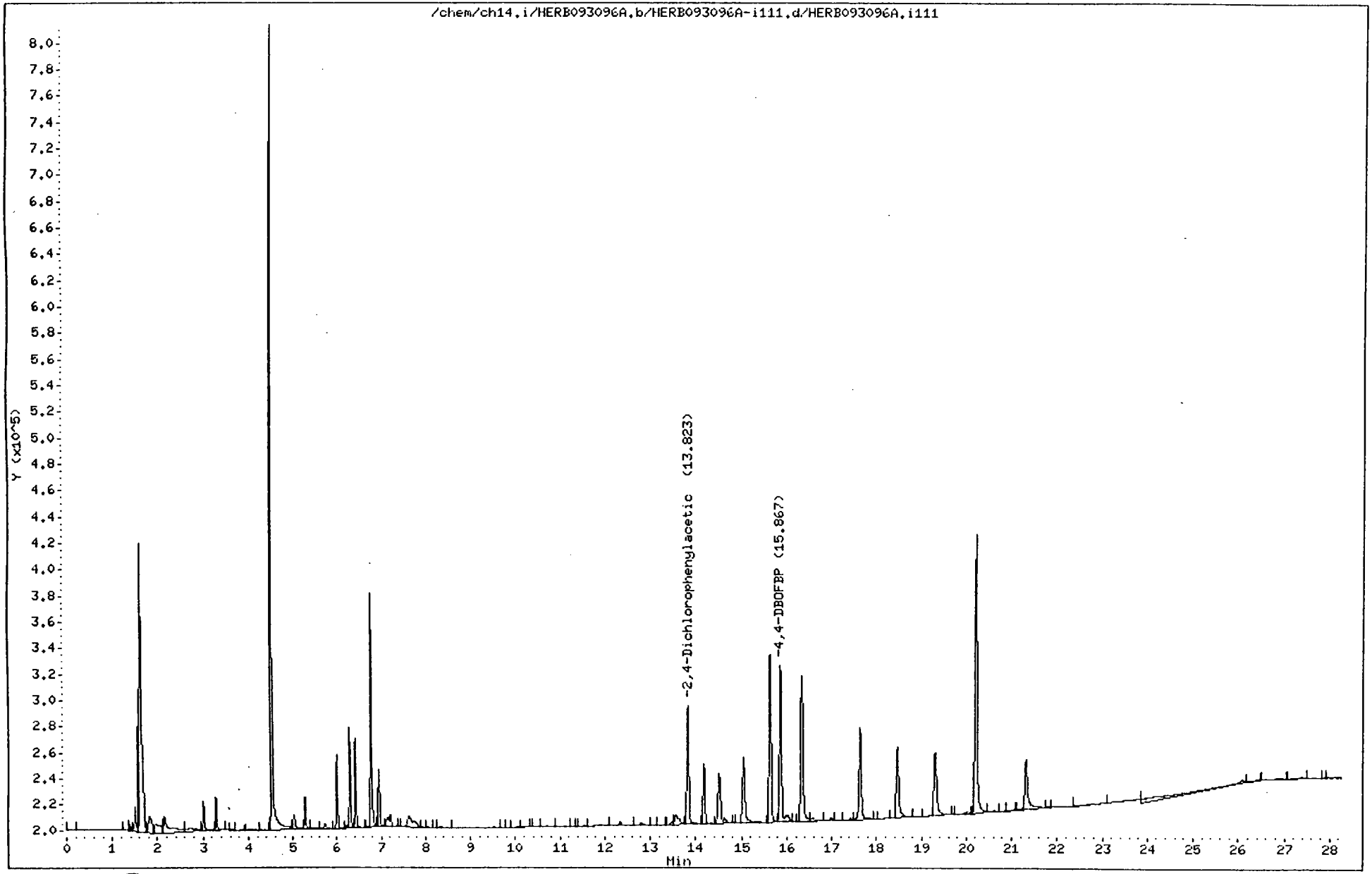
Sample Info: HERBICIDE CAL STD - L7 #AA904-68-2

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB093096A.b\HERB093096A-i111.d
Lab Smp Id: HERBCALL7 Client Smp ID: HERBCALL7
Inj Date : 30-SEP-96 23:49:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L7 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch13.i\HERB093096A.b\13herb0930.m
Meth Date : 06-Nov-96 15:35:10 makowalski Quant Type: ISTD
Cal Date : 04-SEP-96 03:12:00 Cal File: HERB090396-i191.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.256	4.247	(0.293)	936405	1.14	0.949
$	2 2,4-Dichlorophenylacetic acid	13.934	13.934	(0.960)	263472	0.468	0.372
	3 Dicamba	14.399	14.431	(0.992)	116144	0.0470	0.0386
	4 MCPP	14.293	14.289	(0.985)	135019	46.9	37.3
	5 MCPA	14.958	14.958	(1.031)	199050	46.9	34.2
	6 Dichlorprop	15.468	15.468	(1.066)	356707	0.472	0.440
*	7 4,4-DBOFBP	14.510	14.506	(1.000)	299244	1.00	
	8 2,4-D	16.279	16.217	(1.122)	368058	0.470	0.431
	10 2,4,5-TP Silvex	17.467	17.472	(1.204)	199214	0.0475	0.0539
	11 2,4,5-T	18.398	18.456	(1.268)	175260	0.0474	0.0520
	12 2,4-DB	19.156	19.179	(1.320)	203241	0.473	0.428
	13 Dinoseb	18.580	18.580	(1.280)	612465	0.236	0.228

Data File: /chem/ch13.i/HERB093096A.b/HERB093096A-i111.d

Date : 30-SEP-96 23:49:00

Client ID: HERBCALL7

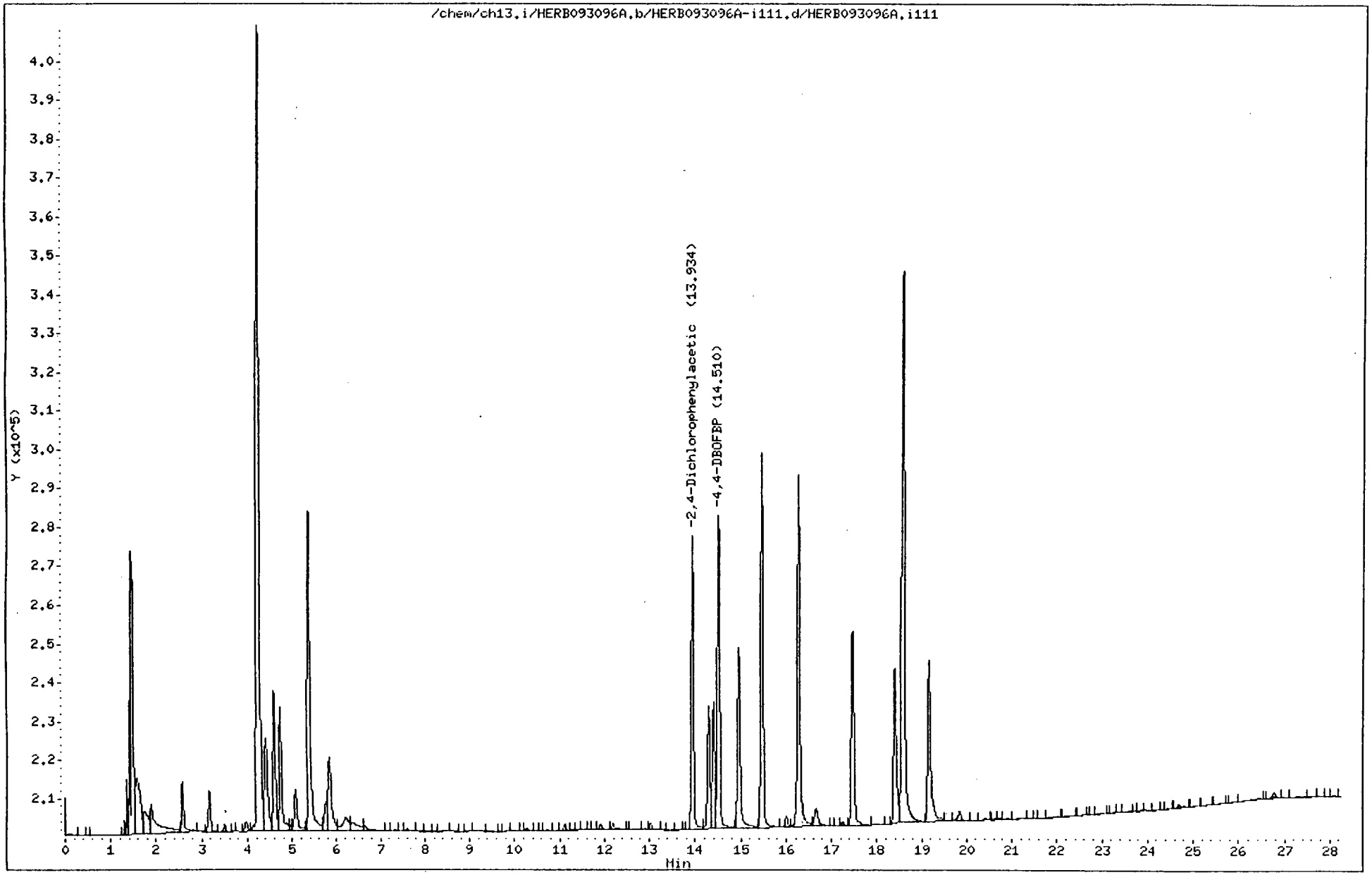
Sample Info: HERBICIDE CAL STD - L7 #AA904-68-2

Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB093096A.b\HERB093096A-i121.d
Lab Smp Id: HERBCALL8 Client Smp ID: HERBCALL8
Inj Date : 01-OCT-96 00:25:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L8 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch14.i\HERB093096A.b\14herb0930.m
Meth Date : 06-Nov-96 15:29:20 makowalski Quant Type: ISTD
Cal Date : 01-OCT-96 00:25:00 Cal File: HERB093096A-i121.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.531	4.544	(0.286)	1988003	1.71	1.74
$	2 2,4-Dichlorophenylacetic acid	13.819	13.836	(0.871)	429092	0.702	0.720
	3 Dicamba	14.173	14.187	(0.894)	206651	0.0705	0.0721
	4 MCPP	14.506	14.519	(0.915)	216649	70.4	47.0
	5 MCPA	15.042	15.060	(0.949)	277169	70.1	69.4
	6 Dichlorprop	15.628	15.641	(0.985)	589470	0.708	0.723
	7 2,4-D	16.324	16.350	(1.029)	586910	0.705	0.695
*	8 4,4-DBOFBP	15.858	15.876	(1.000)	365771	1.00	
	10 2,4,5-TP Silvex	17.627	17.649	(1.112)	373898	0.0713	0.0723
	11 2,4,5-T	18.452	18.478	(1.164)	332114	0.0711	0.0730
	12 2,4-DB	19.289	19.320	(1.216)	328250	0.710	0.736
	13 Dinoseb	20.203	20.225	(1.274)	1143230	0.354	0.392

Data File: /chem/ch14.i/HERB093096A.b/HERB093096A-i121.d

Date : 01-OCT-96 00:25:00

Client ID: HERBCALL8

Sample Info: HERBICIDE CAL STD - L8 #AA904-68-2

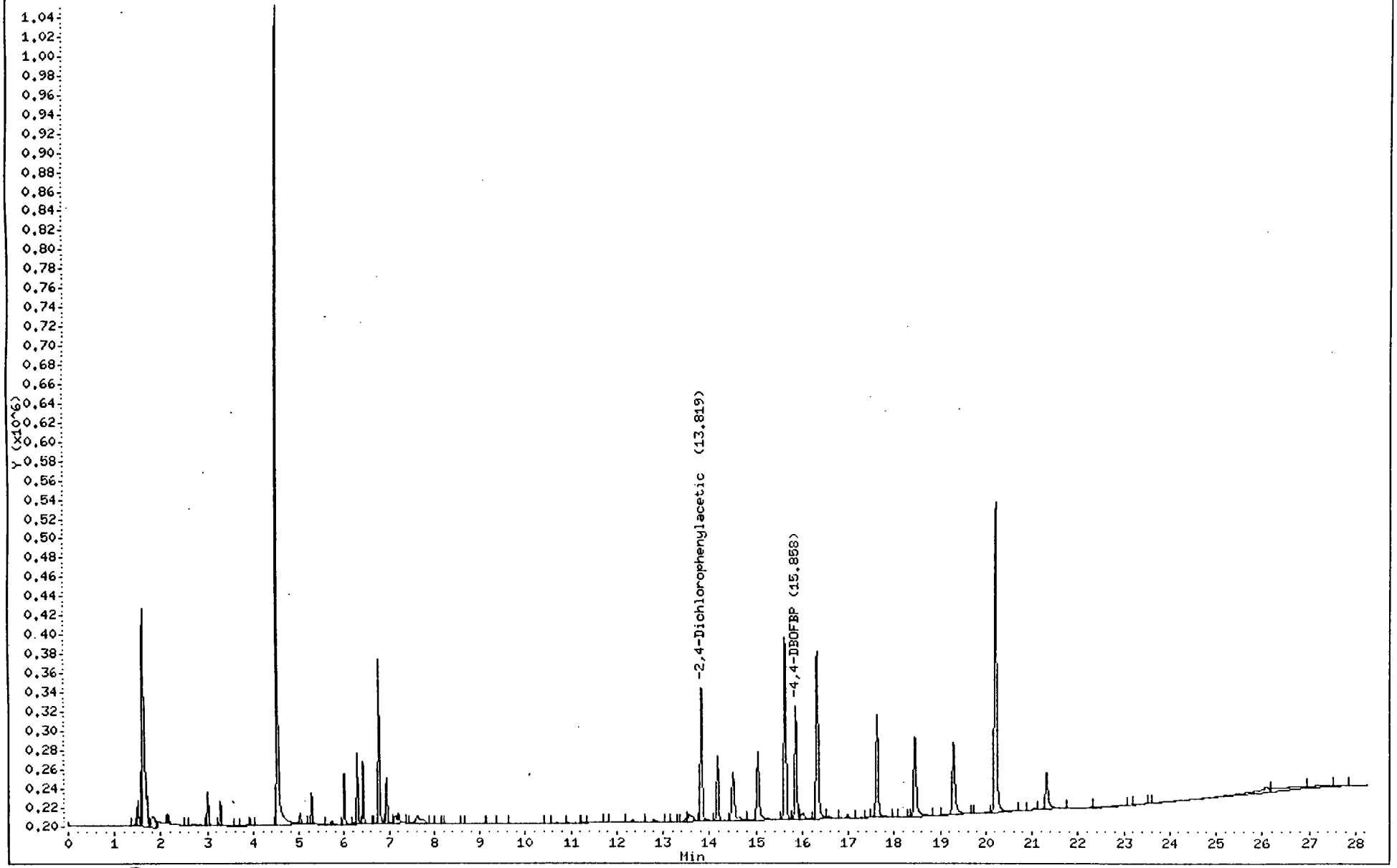
Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53

/chem/ch14.i/HERB093096A.b/HERB093096A-i121.d/HERB093096A.i121



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB093096A.b\HERB093096A-i121.d
Lab Smp Id: HERBCALL8 Client Smp ID: HERBCALL8
Inj Date : 01-OCT-96 00:25:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L8 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch13.i\HERB093096A.b\13herb0930.m
Meth Date : 06-Nov-96 15:35:10 makowalski Quant Type: ISTD
Cal Date : 01-OCT-96 00:25:00 Cal File: HERB093096A-i121.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

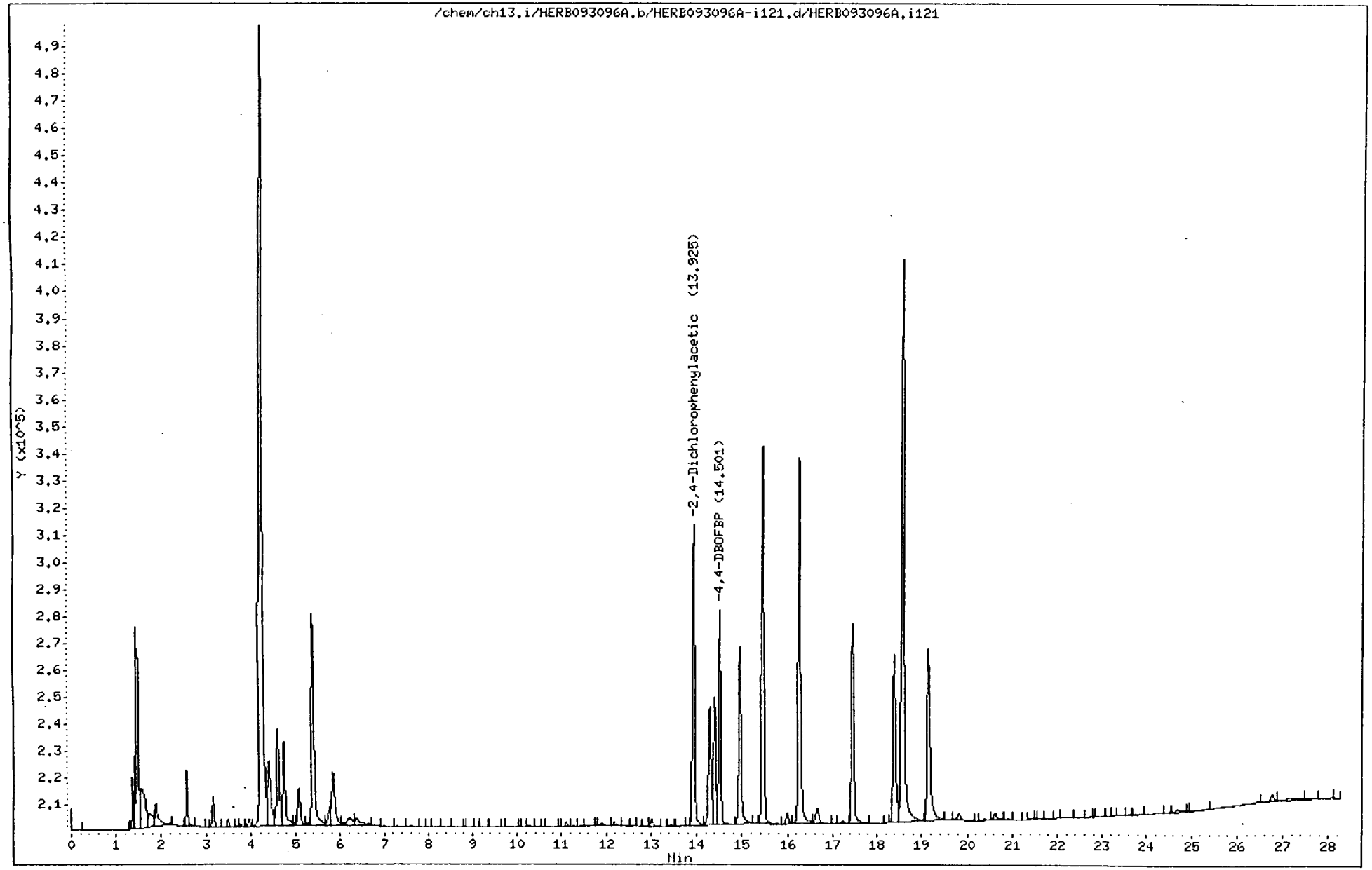
	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.247	4.247	(0.293)	1354000	1.71	1.70
$	2 2,4-Dichlorophenylacetic acid	13.925	13.934	(0.960)	391065	0.702	0.694
	3 Dicamba	14.391	14.431	(0.992)	169040	0.0705	0.0701
	4 MCPP	14.284	14.289	(0.985)	176331	70.4	67.1
	5 MCPA	14.954	14.958	(1.031)	252922	70.4	68.4
	6 Dichlorprop	15.459	15.468	(1.066)	510723	0.708	0.654
*	7 4,4-DBOFBP	14.501	14.506	(1.000)	288626	1.00	
	8 2,4-D	16.266	16.217	(1.122)	521874	0.705	0.634
	10 2,4,5-TP Silvex	17.454	17.472	(1.204)	291473	0.0713	0.0779
	11 2,4,5-T	18.385	18.456	(1.268)	257468	0.0711	0.0758
	12 2,4-DB	19.148	19.179	(1.320)	296109	0.710	0.669
	13 Dinoseb	18.567	18.580	(1.280)	897009	0.354	0.346

Data File: /chem/ch13.i/HERB093096A.b/HERB093096A-i121.d
Date : 01-OCT-96 00:25:00
Client ID: HERBCALL8
Sample Info: HERBICIDE CAL STD - L8 #AA904-68-2

Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI
Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB093096A.b\HERB093096A-i131.d
Lab Smp Id: HERBCALL9 Client Smp ID: HERBCALL9
Inj Date : 01-OCT-96 01:00:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L9 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch14.i\HERB093096A.b\14herb0930.m
Meth Date : 06-Nov-96 15:29:20 makowalski Quant Type: ISTD
Cal Date : 01-OCT-96 01:00:00 Cal File: HERB093096A-i131.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.544	4.544	(0.286)	2542473	2.28	2.17
$	2 2,4-Dichlorophenylacetic acid	13.828	13.836	(0.871)	557693	0.936	0.916
	3 Dicamba	14.182	14.187	(0.894)	270118	0.0940	0.0919
	4 MCPP	14.515	14.519	(0.915)	255938	93.9	90.2
	5 MCPA	15.051	15.060	(0.948)	339285	93.5	85.3
	6 Dichlorprop	15.636	15.641	(0.985)	773692	0.944	0.927
	7 2,4-D	16.337	16.350	(1.029)	763923	0.940	0.882
*	8 4,4-DBOFBP	15.871	15.876	(1.000)	374959	1.00	
	10 2,4,5-TP Silvex	17.636	17.649	(1.111)	484362	0.0951	0.0914
	11 2,4,5-T	18.456	18.478	(1.163)	428799	0.0948	0.0920
	12 2,4-DB	19.298	19.320	(1.216)	427621	0.947	0.935
	13 Dinoseb	20.212	20.225	(1.273)	1497882	0.475	0.501

Data File: /chem/ch14.i/HERB093096A.b/HERB093096A-i131.d

Date : 01-OCT-96 01:00:00

Client ID: HERBCALL9

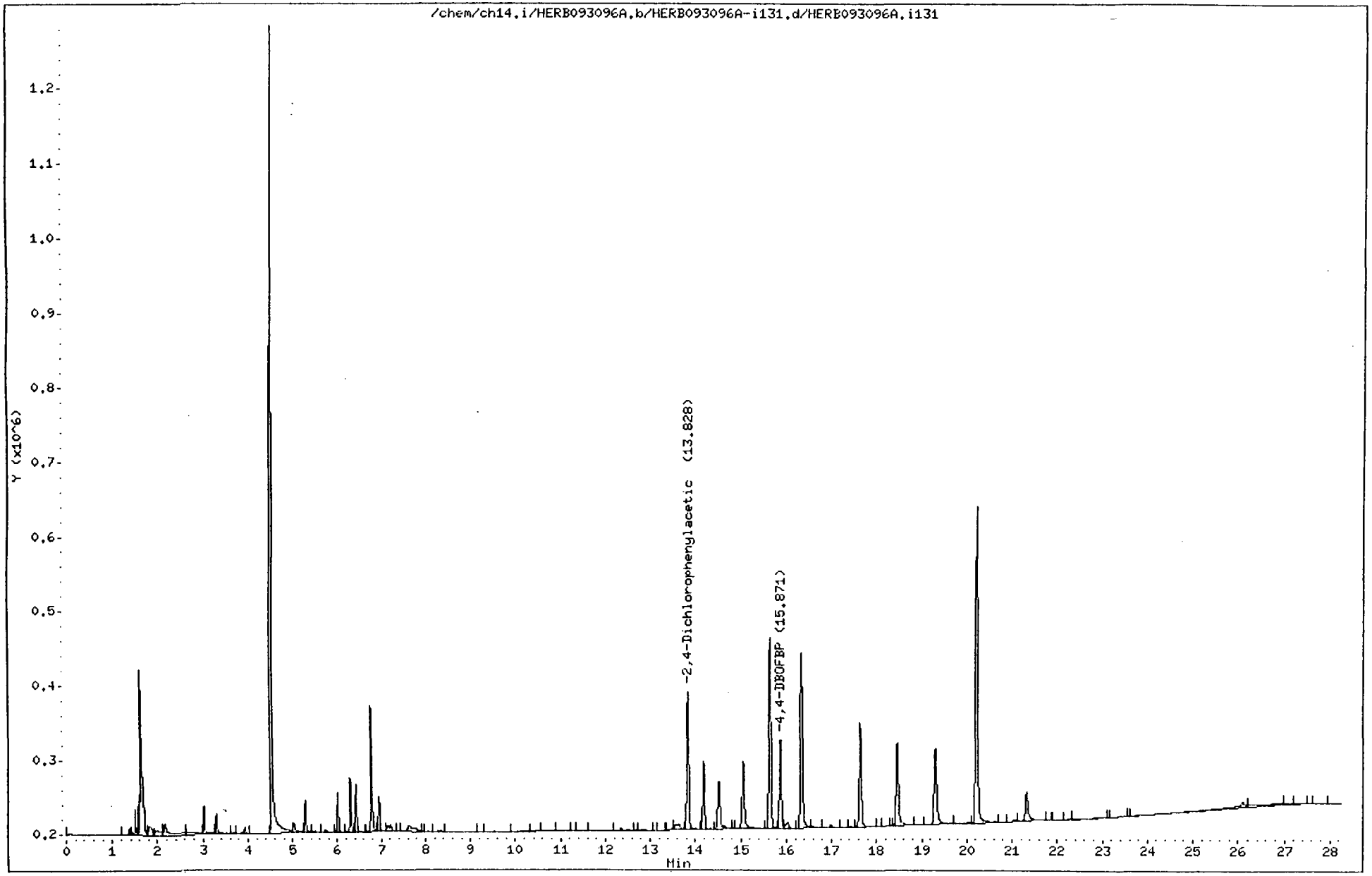
Sample Info: HERBICIDE CAL STD - L9 #AA904-68-2

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB093096A.b\HERB093096A-i131.d
Lab Smp Id: HERBCALL9 Client Smp ID: HERBCALL9
Inj Date : 01-OCT-96 01:00:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L9 #AA904-68-2
Misc Info :
Comment :
Method : \chem\ch13.i\HERB093096A.b\13herb0930.m
Meth Date : 06-Nov-96 15:35:10 makowalski Quant Type: ISTD
Cal Date : 01-OCT-96 01:00:00 Cal File: HERB093096A-i131.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

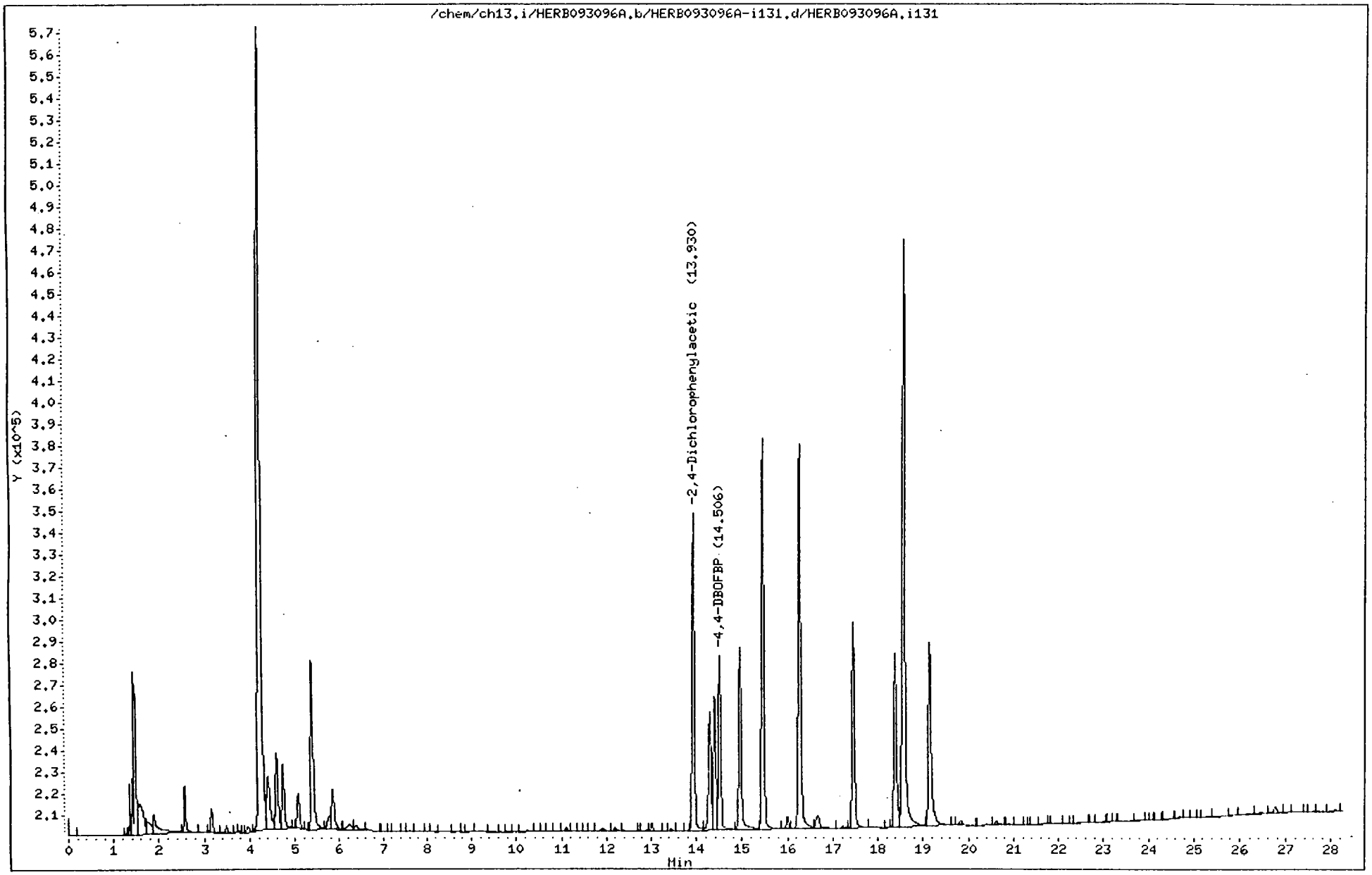
	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.252	4.247	(0.293)	1726125	2.28	2.06
$	2 2,4-Dichlorophenylacetic acid	13.930	13.934	(0.960)	507342	0.936	0.856
	3 Dicamba	14.395	14.431	(0.992)	224007	0.0940	0.0884
	4 MCPP	14.289	14.289	(0.985)	220609	93.9	81.2
	5 MCPA	14.954	14.958	(1.031)	334016	93.5	89.7
	6 Dichlorprop	15.459	15.468	(1.066)	667761	0.944	0.812
*	7 4,4-DBOFBP	14.506	14.506	(1.000)	303642	1.00	
	8 2,4-D	16.270	16.217	(1.122)	665802	0.940	0.768
	10 2,4,5-TP Silvex	17.458	17.472	(1.204)	371084	0.0951	0.0902
	11 2,4,5-T	18.385	18.456	(1.267)	329933	0.0948	0.0900
	12 2,4-DB	19.148	19.179	(1.320)	391519	0.947	0.912
	13 Dinoseb	18.571	18.580	(1.280)	1153328	0.472	0.423

Data File: /chem/ch13.i/HERB093096A.b/HERB093096A-i131.d
Date : 01-OCT-96 01:00:00
Client ID: HERBCALL9
Sample Info: HERBICIDE CAL STD - L9 #AA904-68-2

Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI
Column diameter: 0.53



FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date: 10/01/96 Time: 1302

Lab File ID: HERB100196-I06

COMPOUND	SAMPLE AMOUNT	CAL5 AMOUNT	CURVE	%REC	%REC LIM.
2,4-D	0.249	0.235	LINR	106.0	80-120
2,4,5-TP Silvex	0.0245	0.0238	LINR	102.9	80-120
2,4,5-T	0.0230	0.0237	LINR	97.0	80-120
2,4-Dichlorophenylacetic aci	0.251	0.234	LINR	107.3	80-120

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date: 10/01/96 Time: 1934

Lab File ID: HERB100196-I17

COMPOUND	SAMPLE AMOUNT	CAL5 AMOUNT	CURVE	%REC	%REC LIM.
2,4-D	0.244	0.235	LINR	103.8	80-120
2,4,5-TP Silvex	0.0246	0.0238	LINR	103.4	80-120
2,4,5-T	0.0243	0.0237	LINR	102.5	80-120
2,4-Dichlorophenylacetic aci	0.260	0.234	LINR	111.1	80-120

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date: 10/08/96 Time: 0424

Lab File ID: HERB100796A-I1

COMPOUND	SAMPLE AMOUNT	CAL4 AMOUNT	CURVE	%REC	%REC LIM.
Pentachlorophenol	0.0486	0.0475	LINR	102.3	80-120

FORM VII HERB

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date: 10/08/96 Time: 0945

Lab File ID: HERB100796A-I2

COMPOUND	SAMPLE AMOUNT	CAL5 AMOUNT	CURVE	%REC	%REC LIM.
2,4-D	0.245	0.235	LINR	104.2	80-120
2,4,5-TP Silvex	0.0219	0.0238	LINR	92.0	80-120
2,4,5-T	0.0217	0.0237	LINR	91.6	80-120
2,4-Dichlorophenylacetic aci	0.244	0.234	LINR	104.3	80-120

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date: 10/08/96 Time: 1020

Lab File ID: HERB100796A-I2

COMPOUND	SAMPLE AMOUNT	CAL4 AMOUNT	CURVE	%REC	%REC LIM.
Pentachlorophenol	0.0477	0.0475	LINR	100.4	80-120

FORM VII HERB

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date: 10/08/96 Time: 1621

Lab File ID: HERB100796A-I3

COMPOUND	SAMPLE AMOUNT	CAL5 AMOUNT	CURVE	%REC	%REC LIM.
2,4-D	0.237	0.235	LINR	100.8	80-120
2,4,5-TP Silvex	0.0228	0.0238	LINR	95.8	80-120
2,4,5-T	0.0211	0.0237	LINR	89.0	80-120
2,4-Dichlorophenylacetic aci	0.244	0.234	LINR	104.3	80-120

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH14 Calibration Date: 10/08/96 Time: 1657

Lab File ID: HERB100796A-I3

COMPOUND	SAMPLE AMOUNT	CAL4 AMOUNT	CURVE	%REC	%REC LIM.
Pentachlorophenol	0.0472	0.0475	LINR	99.4	80-120

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date: 10/01/96 Time: 1302

Lab File ID: HERB100196-I06

COMPOUND	SAMPLE AMOUNT	0.375 AMOUNT	CURVE	%REC	%REC LIM.
2,4-D	0.265	0.235	LINR	112.8	80-120
2,4,5-TP Silvex	0.0247	0.0238	LINR	103.8	80-120
2,4,5-T	0.0249	0.0237	LINR	105.1	80-120
2,4-Dichlorophenylacetic aci	0.241	0.234	LINR	103.0	80-120

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date: 10/01/96 Time: 1934

Lab File ID: HERB100196-I17

COMPOUND	SAMPLE AMOUNT	0.375 AMOUNT	CURVE	%REC	%REC LIM.
2,4-D	0.278	0.235	LINR	118.3	80-120
2,4,5-TP Silvex	0.0252	0.0238	LINR	105.9	80-120
2,4,5-T	0.0250	0.0237	LINR	105.5	80-120
2,4-Dichlorophenylacetic aci	0.249	0.234	LINR	106.4	80-120

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date: 10/08/96 Time: 0424

Lab File ID: HERB100796A-I1

COMPOUND	SAMPLE AMOUNT	0.25 AMOUNT	CURVE	%REC	%REC LIM.
Pentachlorophenol	0.0522	0.0475	LINR	109.9	80-120

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date: 10/08/96 Time: 0945

Lab File ID: HERB100796A-I2

COMPOUND	SAMPLE AMOUNT	0.375 AMOUNT	CURVE	%REC	%REC LIM.
2,4-D	0.244	0.235	LINR	103.8	80-120
2,4,5-TP Silvex	0.0232	0.0238	LINR	97.5	80-120
2,4,5-T	0.0190	0.0237	LINR	80.2	80-120
2,4-Dichlorophenylacetic aci	0.234	0.234	LINR	100.0	80-120

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date: 10/08/96 Time: 1020

Lab File ID: HERB100796A-I2

COMPOUND	SAMPLE AMOUNT	0.25 AMOUNT	CURVE	%REC	%REC LIM.
Pentachlorophenol	0.0529	0.0475	LINR	111.4	80-120

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date: 10/08/96 Time: 1621

Lab File ID: HERB100796A-I3

COMPOUND	SAMPLE AMOUNT	0.375 AMOUNT	CURVE	%REC	%REC LIM.
2,4-D	0.231	0.235	LINR	98.3	80-120
2,4,5-TP Silvex	0.0230	0.0238	LINR	96.6	80-120
2,4,5-T	0.0191	0.0237	LINR	80.6	80-120
2,4-Dichlorophenylacetic aci	0.231	0.234	LINR	98.7	80-120

FORM VII HERB

FORM 7
HERB CONTINUING CALIBRATION CHECK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

Instrument ID: CH13 Calibration Date: 10/08/96 Time: 1657

Lab File ID: HERB100796A-I3

COMPOUND	SAMPLE AMOUNT	0.25 AMOUNT	CURVE	%REC	%REC LIM.
Pentachlorophenol	0.0519	0.0475	LINR	109.3	80-120

FORM VII HERB

Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100196.b\HERB100196-i061.d
Lab Smp Id: HERBCAL-1 Client Smp ID: HERBCAL-1
Inj Date : 01-OCT-96 13:02:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L5 #AA904-79-3
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100196.b\14herb0930.m
Meth Date : 29-Oct-96 15:38:25 Quant Type: ISTD
Cal Date : 01-OCT-96 01:00:00 Cal File: HERB093096A-i131.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

						AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	Compounds	RT	EXP RT	REL RT	RESPONSE		
	1 Dalapon	4.540	4.526	(0.286)	690703	0.569	0.588
$	2 2,4-Dichlorophenylacetic acid	13.832	13.819	(0.872)	163585	0.234	0.251
	3 Dicamba	14.187	14.173	(0.894)	72368	0.0235	0.0238
	4 MCPP	14.515	14.506	(0.915)	125507	23.5	25.9
	5 MCPA	15.056	15.042	(0.949)	135902	23.4	24.7
	6 Dichlorprop	15.636	15.628	(0.985)	213342	0.236	0.244
	7 2,4-D	16.346	16.332	(1.030)	217015	0.235	0.249
*	8 4,4-DBOFBP	15.871	15.862	(1.000)	394295	1.00	
	10 2,4,5-TP Silvex	17.645	17.631	(1.112)	133935	0.0238	0.0245
	11 2,4,5-T	18.474	18.465	(1.164)	110945	0.0237	0.0230
	12 2,4-DB	19.312	19.307	(1.217)	120503	0.237	0.256
	13 Dinoseb	20.220	20.207	(1.274)	396283	0.118	0.122

Data File: /chem/ch14.i/HERB100196.b/HERB100196-i061.d

Date : 01-OCT-96 13:02:00

Client ID: HERBCAL-1

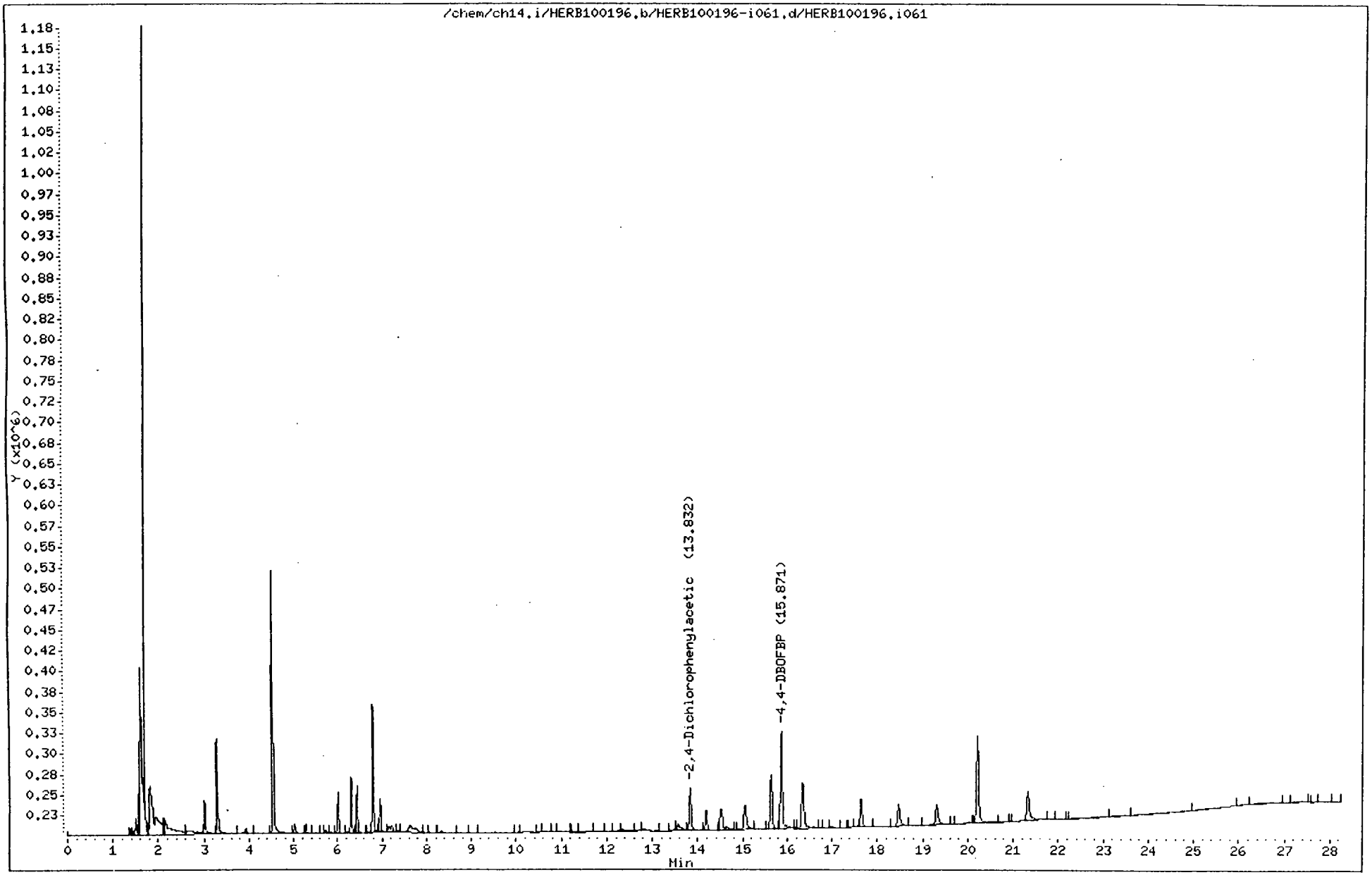
Sample Info: HERBICIDE CAL STD - L5 #AA904-79-3

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100196.b\HERB100196-i061.d
Lab Smp Id: HERBCAL-1 Client Smp ID: HERBCAL-1
Inj Date : 01-OCT-96 13:02:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L5 #AA904-79-3
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100196.b\13herb0930.m
Meth Date : 06-Nov-96 17:57:20 Quant Type: ISTD
Cal Date : 01-OCT-96 01:00:00 Cal File: HERB093096A-i131.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.243	4.247	(0.293)	475521	0.569	0.575
$	2 2,4-Dichlorophenylacetic acid	13.925	13.934	(0.960)	153816	0.234	0.241
	3 Dicamba	14.391	14.431	(0.992)	61793	0.0235	0.0255
	4 MCPP	14.284	14.289	(0.985)	86817	23.5	26.8
	5 MCPA	14.949	14.958	(1.031)	127467	23.5	25.5
	6 Dichlorprop	15.459	15.468	(1.066)	194064	0.236	0.254
*	7 4,4-DBOFBP	14.501	14.506	(1.000)	299242	1.00	
	8 2,4-D	16.270	16.217	(1.122)	210151	0.235	0.265
	10 2,4,5-TP Silvex	17.458	17.472	(1.204)	105114	0.0238	0.0247
	11 2,4,5-T	18.394	18.456	(1.268)	94409	0.0237	0.0249
	12 2,4-DB	19.152	19.179	(1.321)	106541	0.237	0.243
	13 Dinoseb	18.576	18.580	(1.281)	329728	0.118	0.124

069

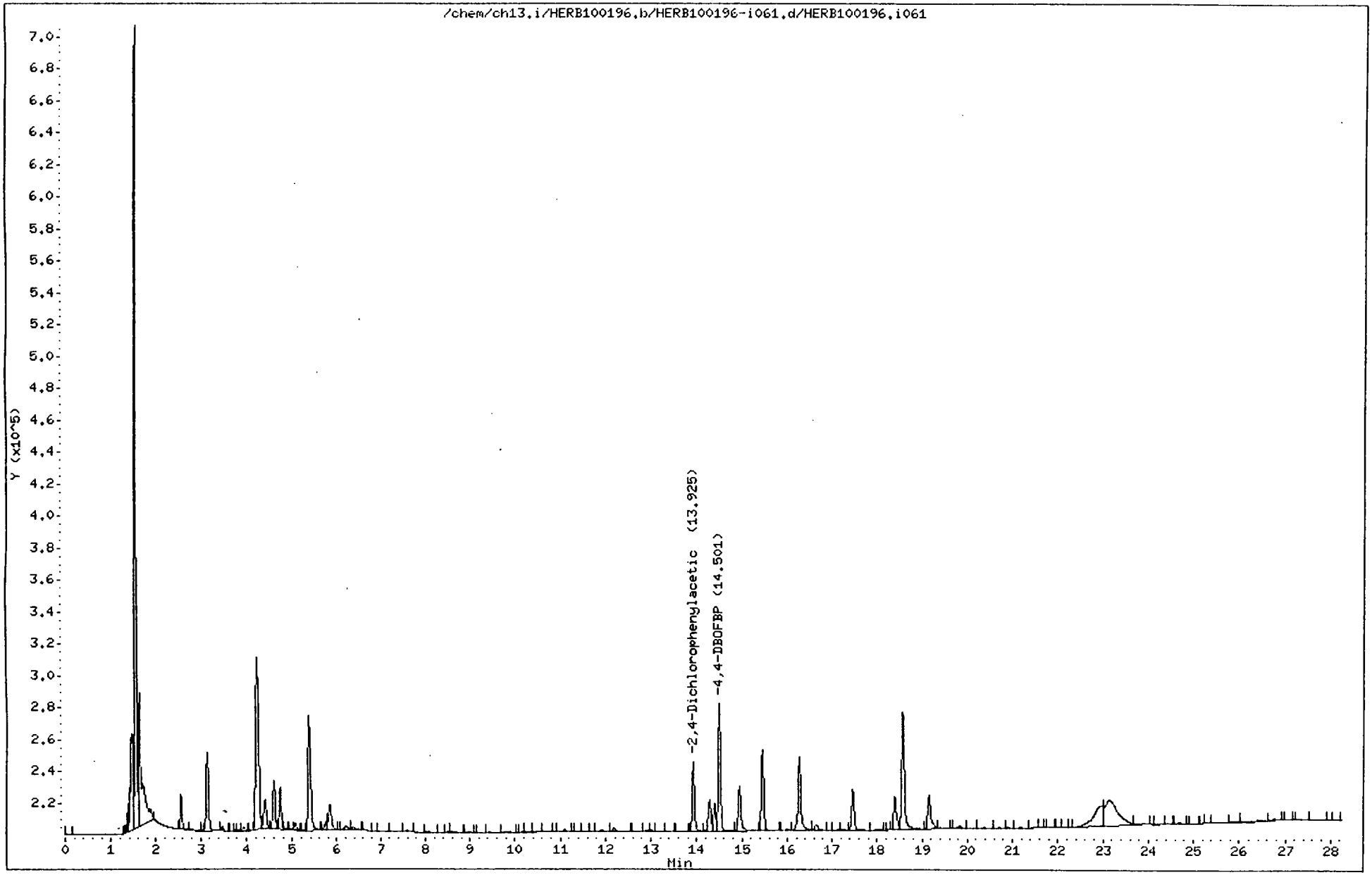
Data File: /chem/ch13.i/HERB100196.b/HERB100196-i061.d
Date : 01-OCT-96 13:02:00
Client ID: HERBCAL-1
Sample Info: HERBICIDE CAL STD - L5 #AA904-79-3

Instrument: ch13.i

Operator: MAKOWALSKI

Column phase: DB-608

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100196.b\HERB100196-i171.d
Lab Smp Id: HERBCAL-2 Client Smp ID: HERBCAL-2
Inj Date : 01-OCT-96 19:34:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L5 #AA904-79-3
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100196.b\14herb0930.m
Meth Date : 29-Oct-96 15:38:25 Quant Type: ISTD
Cal Date : 01-OCT-96 01:00:00 Cal File: HERB093096A-i131.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.526	4.526	(0.285)	734036	0.569	0.600
$	2 2,4-Dichlorophenylacetic acid	13.819	13.819	(0.871)	176976	0.234	0.260
	3 Dicamba	14.173	14.173	(0.894)	77008	0.0235	0.0242
	4 MCPP	14.506	14.506	(0.914)	124038	23.5	23.0
	5 MCPA	15.042	15.042	(0.948)	151164	23.4	27.2
	6 Dichlorprop	15.628	15.628	(0.985)	222924	0.236	0.245
	7 2,4-D	16.332	16.332	(1.030)	221478	0.235	0.244
*	8 4,4-DBOFBP	15.862	15.862	(1.000)	411047	1.00	
	10 2,4,5-TP Silvex	17.631	17.631	(1.112)	140425	0.0238	0.0246
	11 2,4,5-T	18.465	18.465	(1.164)	122327	0.0237	0.0243
	12 2,4-DB	19.307	19.307	(1.217)	116385	0.237	0.237
	13 Dinoseb	20.207	20.207	(1.274)	397937	0.118	0.117

Data File: /chem/ch14.i/HERB100196.b/HERB100196-i171.d

Date : 01-OCT-96 19:34:00

Client ID: HERBCAL-2

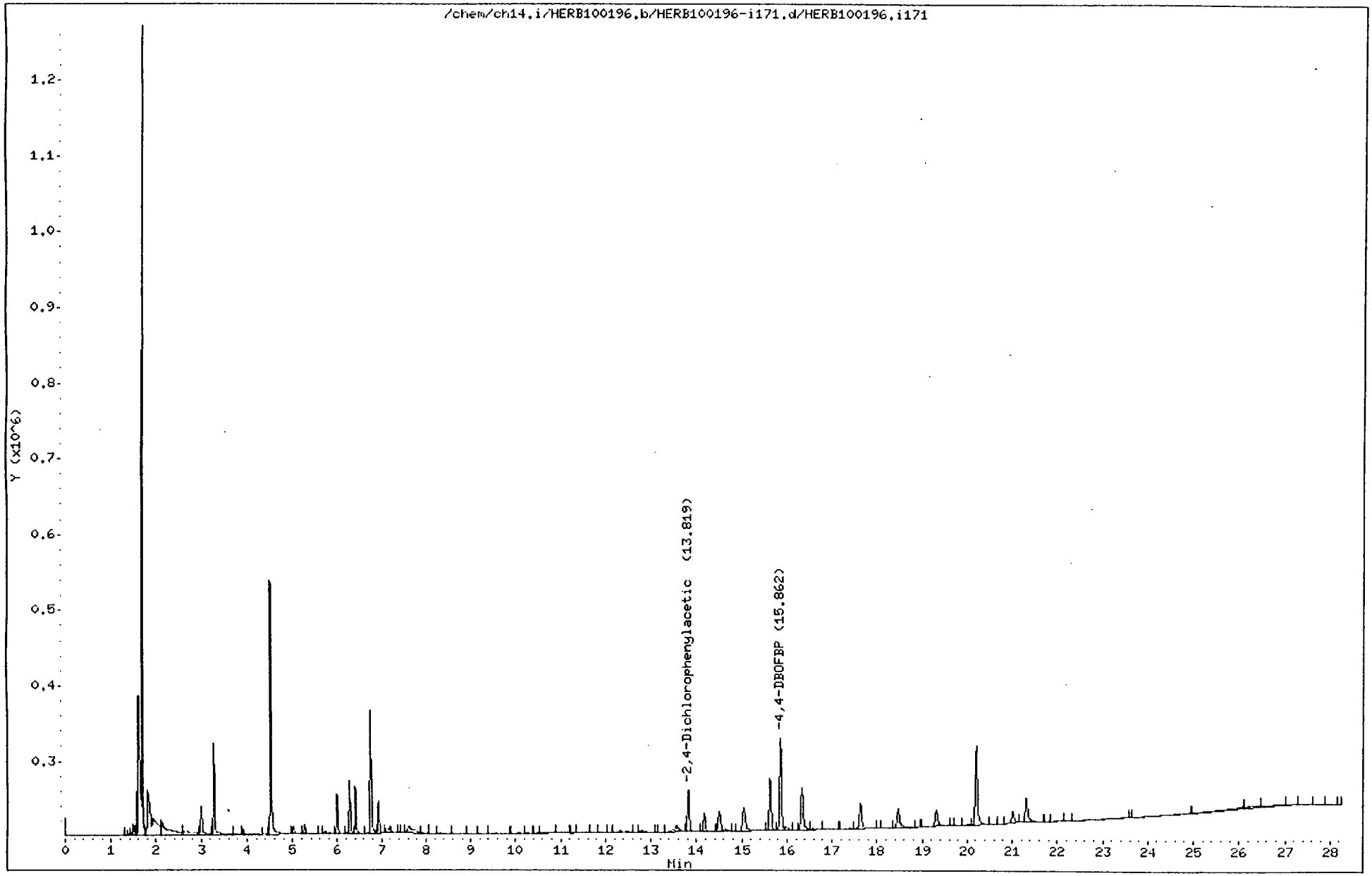
Sample Info: HERBICIDE CAL STD - L5 #AA904-79-3

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100196.b\HERB100196-i171.d
Lab Smp Id: HERBCAL-2 Client Smp ID: HERBCAL-2
Inj Date : 01-OCT-96 19:34:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L5 #AA904-79-3
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100196.b\13herb0930.m
Meth Date : 06-Nov-96 17:57:20 Quant Type: ISTD
Cal Date : 01-OCT-96 01:00:00 Cal File: HERB093096A-i131.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.243	4.247	(0.293)	498003	0.569	0.607
$	2 2,4-Dichlorophenylacetic acid	13.921	13.934	(0.960)	157691	0.234	0.249
	3 Dicamba	14.386	14.431	(0.992)	62735	0.0235	0.0261
	4 MCPP	14.280	14.289	(0.985)	84848	23.5	26.3
	5 MCPA	14.945	14.958	(1.031)	126028	23.5	25.3
	6 Dichlorprop	15.455	15.468	(1.066)	202018	0.236	0.266
*	7 4,4-DBOFBP	14.497	14.506	(1.000)	297067	1.00	
	8 2,4-D	16.270	16.217	(1.122)	218511	0.235	0.278
	10 2,4,5-TP Silvex	17.458	17.472	(1.204)	106485	0.0238	0.0252
	11 2,4,5-T	18.394	18.456	(1.269)	94214	0.0237	0.0250
	12 2,4-DB	19.161	19.179	(1.322)	109286	0.237	0.251
	13 Dinoseb	18.571	18.580	(1.281)	348372	0.118	0.132

Data File: /chem/ch13.i/HERB100196.b/HERB100196-i171.d

Date : 01-OCT-96 19:34:00

Client ID: HERBCAL-2

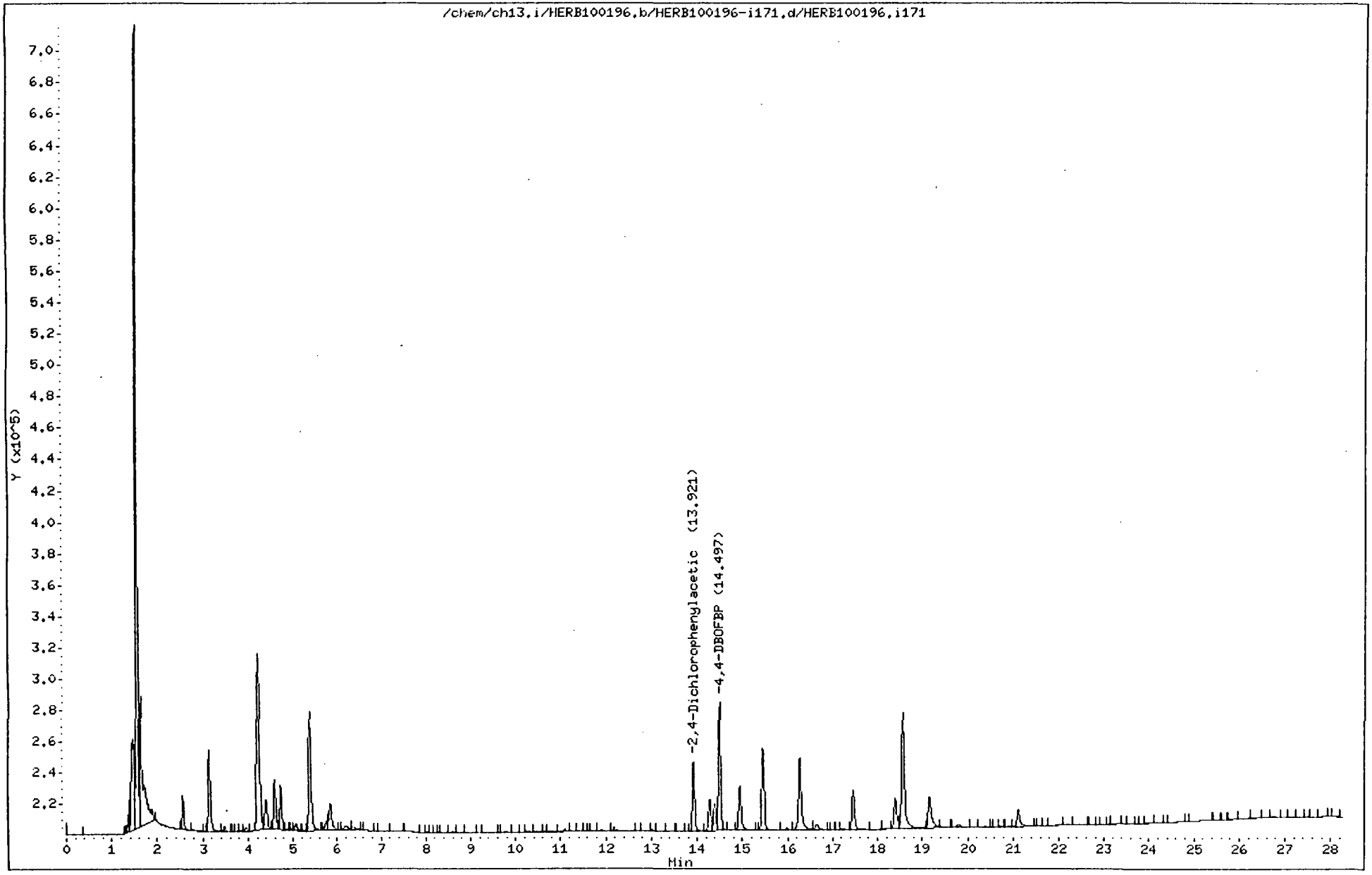
Instrument: ch13.i

Sample Info: HERBICIDE CAL STD - L5 #AA904-79-3

Operator: MAKOWALSKI

Column phase: DB-608

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i031.d
Lab Smp Id: PENTCHLL1 Client Smp ID: PENTCHLL1
Inj Date : 07-OCT-96 23:03:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : PENTACHLR. CAL STD - L1 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 8 4,4-DBOFBP	15.894	15.862	(1.000)	556305	1.00	
9 Pentachlorophenol	16.439	16.527	(1.034)	11656	0.00237	0.00321

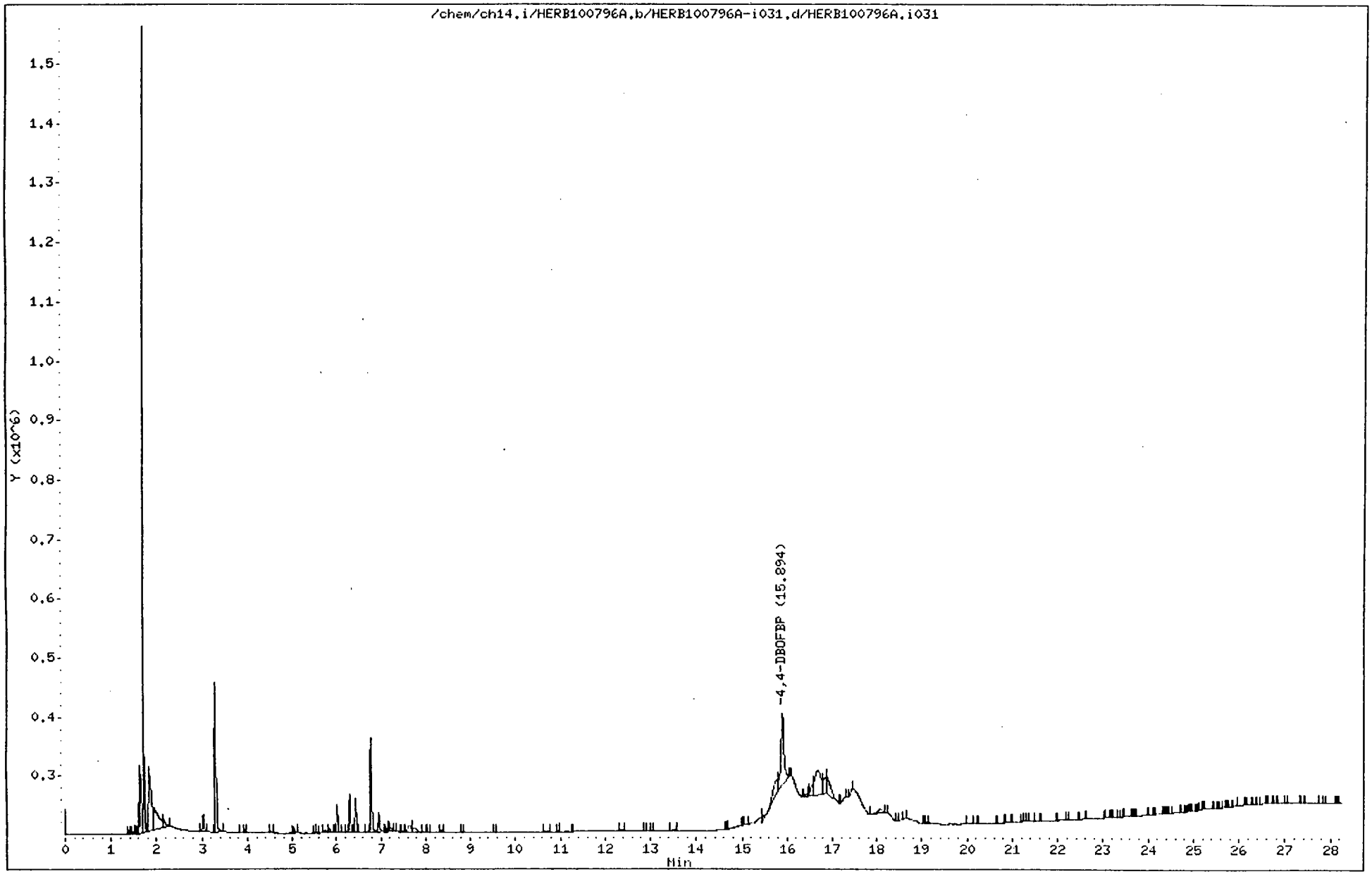
Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i031.d
Date : 07-OCT-96 23:03:00
Client ID: PENTCHLL1
Sample Info: PENTACHLR. CAL STD - L1 #AA904-80-1

Instrument: ch14.i

Operator: MAKOWALSKI

Column phase: DB-1701

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i031.d
Lab Smp Id: PENTCHLL1 Client Smp ID: PENTCHLL1
Inj Date : 07-OCT-96 23:03:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : PENTACHLR. CAL STD - L1 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:14:28 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Pentachlorophenol	16.935	16.931	(1.166)	23897	0.00237	0.00256
* 7 4,4-DBOFBP	14.524	14.524	(1.000)	333051	1.00	

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i031.d

Date : 07-OCT-96 23:03:00

Client ID: PENTCHLL1

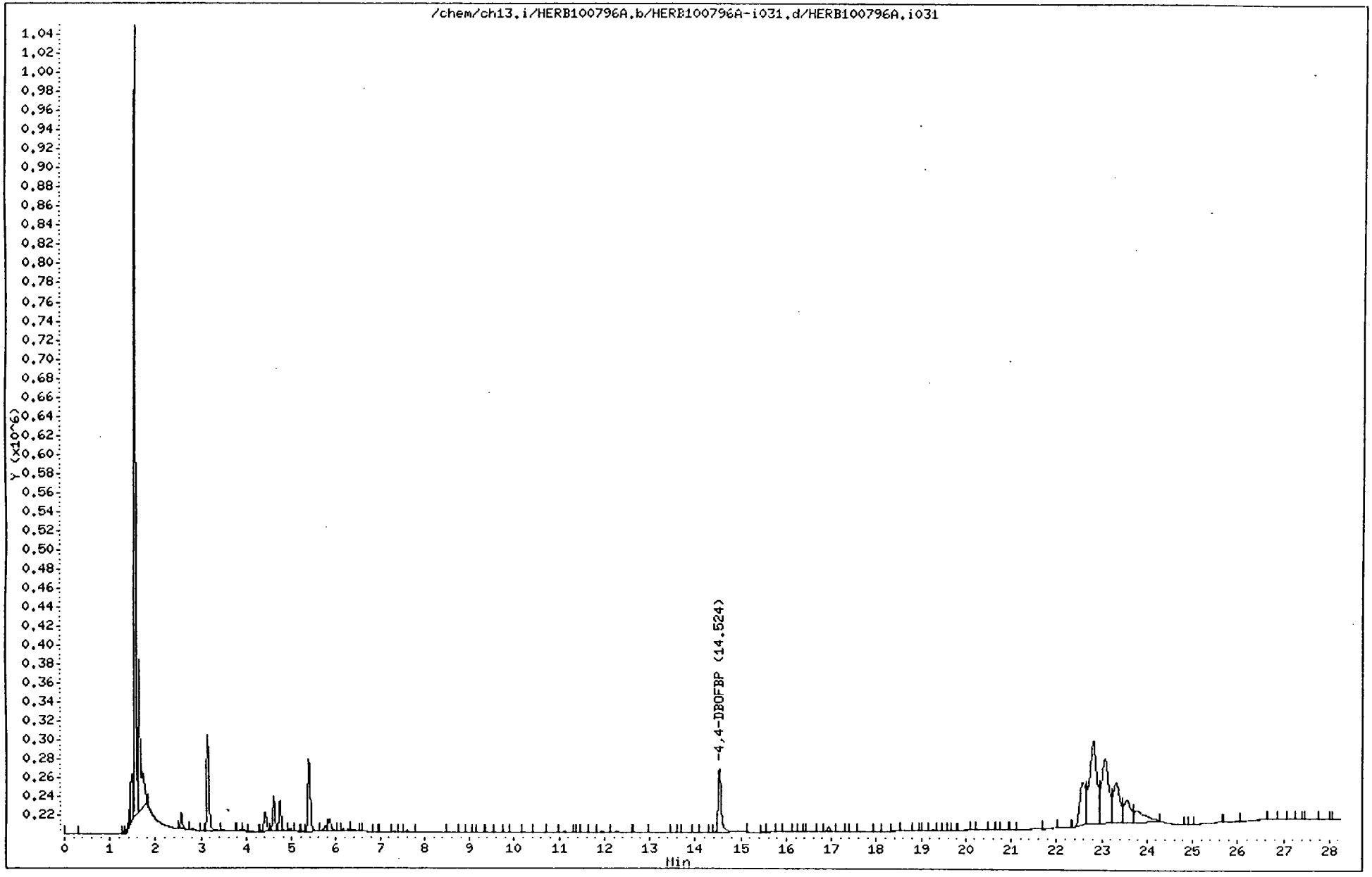
Sample Info: PENTACHLR. CAL STD - L1 #AA904-80-1

Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i041.d
Lab Smp Id: PENTCHLL2 Client Smp ID: PENTCHLL2
Inj Date : 07-OCT-96 23:39:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : PENTACHLR. CAL STD - L2 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 00:50:00 Cal File: HERB100796A.i061
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 8 4,4-DBOFBP	15.867	15.862	(1.000)	407987	1.00	
9 Pentachlorophenol	16.519	16.527	(1.041)	79638	0.0119	0.00190

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i041.d

Date : 07-OCT-96 23:39:00

Client ID: PENTCHLL2

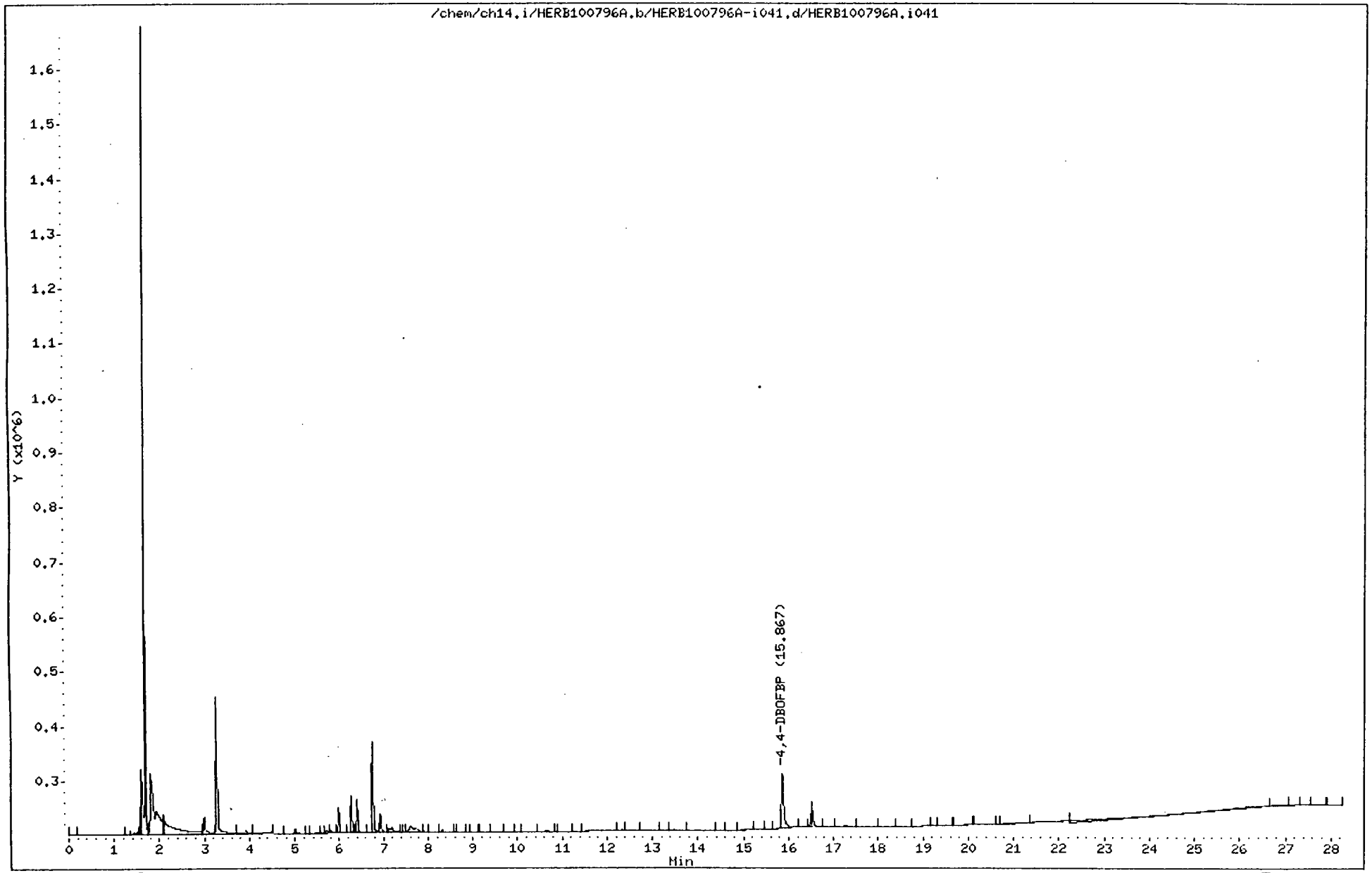
Sample Info: PENTACHLR. CAL STD - L2 #AA904-80-1

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i041.d
Lab Smp Id: PENTCHLL2 Client Smp ID: PENTCHLL2
Inj Date : 07-OCT-96 23:39:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : PENTACHLR. CAL STD - L2 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:14:28 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Pentachlorophenol	16.922	16.931	(1.166)	123722	0.0119	0.0132
* 7 4,4-DBOFBP	14.510	14.524	(1.000)	332426	1.00	

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i041.d
Date : 07-OCT-96 23:39:00
Client ID: PENTCHLL2
Sample Info: PENTACHLR. CAL STD - L2 #AA904-80-1

Instrument: ch13.i
Operator: MAKOWALSKI
Column diameter: 0.53

Column phase: DB-608

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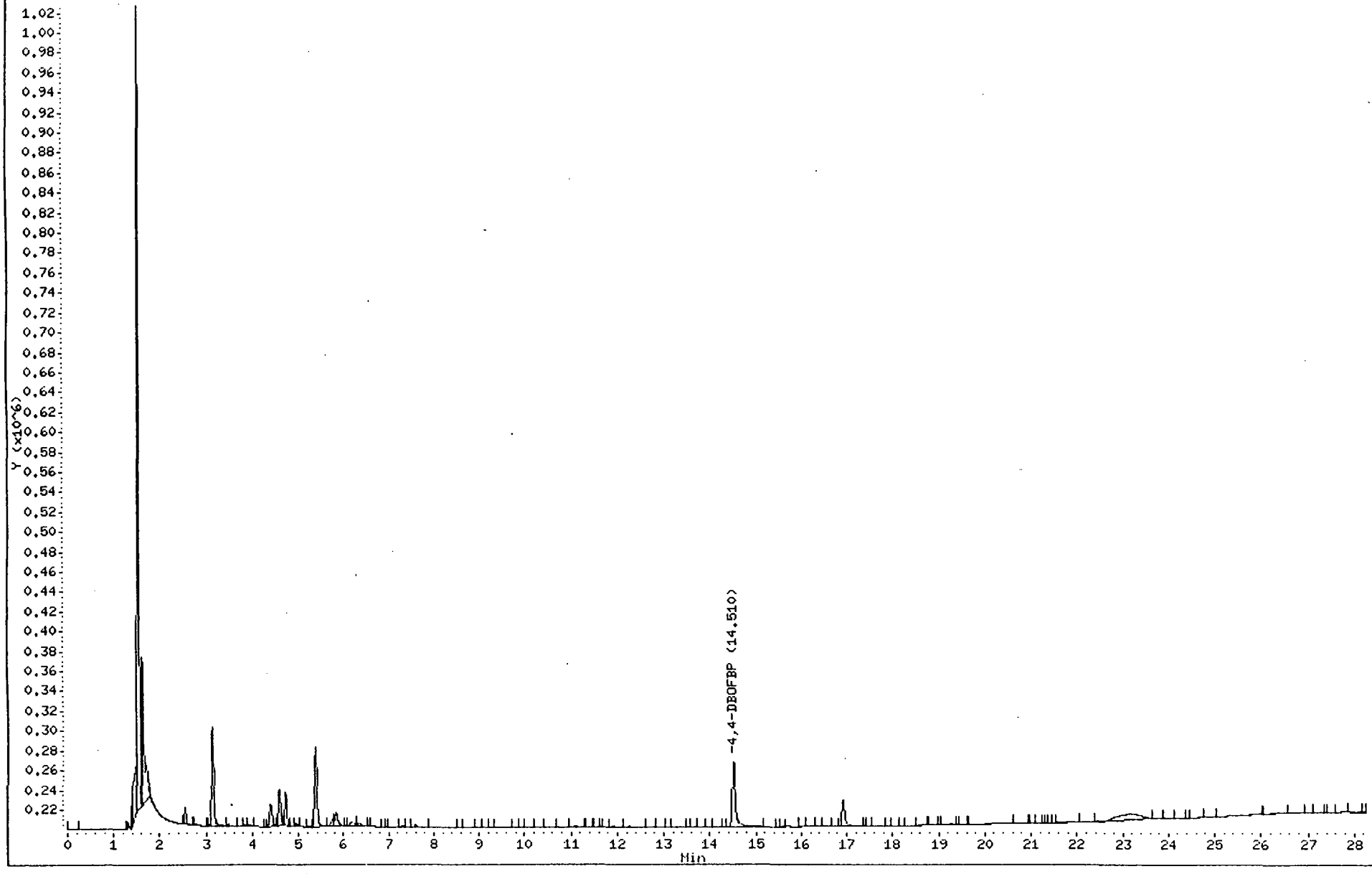

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Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i051.d
Lab Smp Id: PENTCHLL3 Client Smp ID: PENTCHLL3
Inj Date : 08-OCT-96 00:15:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : PENTACHLR. CAL STD - L3 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 00:50:00 Cal File: HERB100796A.i061
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 8 4,4-DBOFBP	15.880	15.862	(1.000)	425795	1.00	
9 Pentachlorophenol	16.532	16.527	(1.041)	294074	0.0237	0.0188

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i051.d

Page 2

Date : 08-OCT-96 00:15:00

Client ID: PENTCHLL3

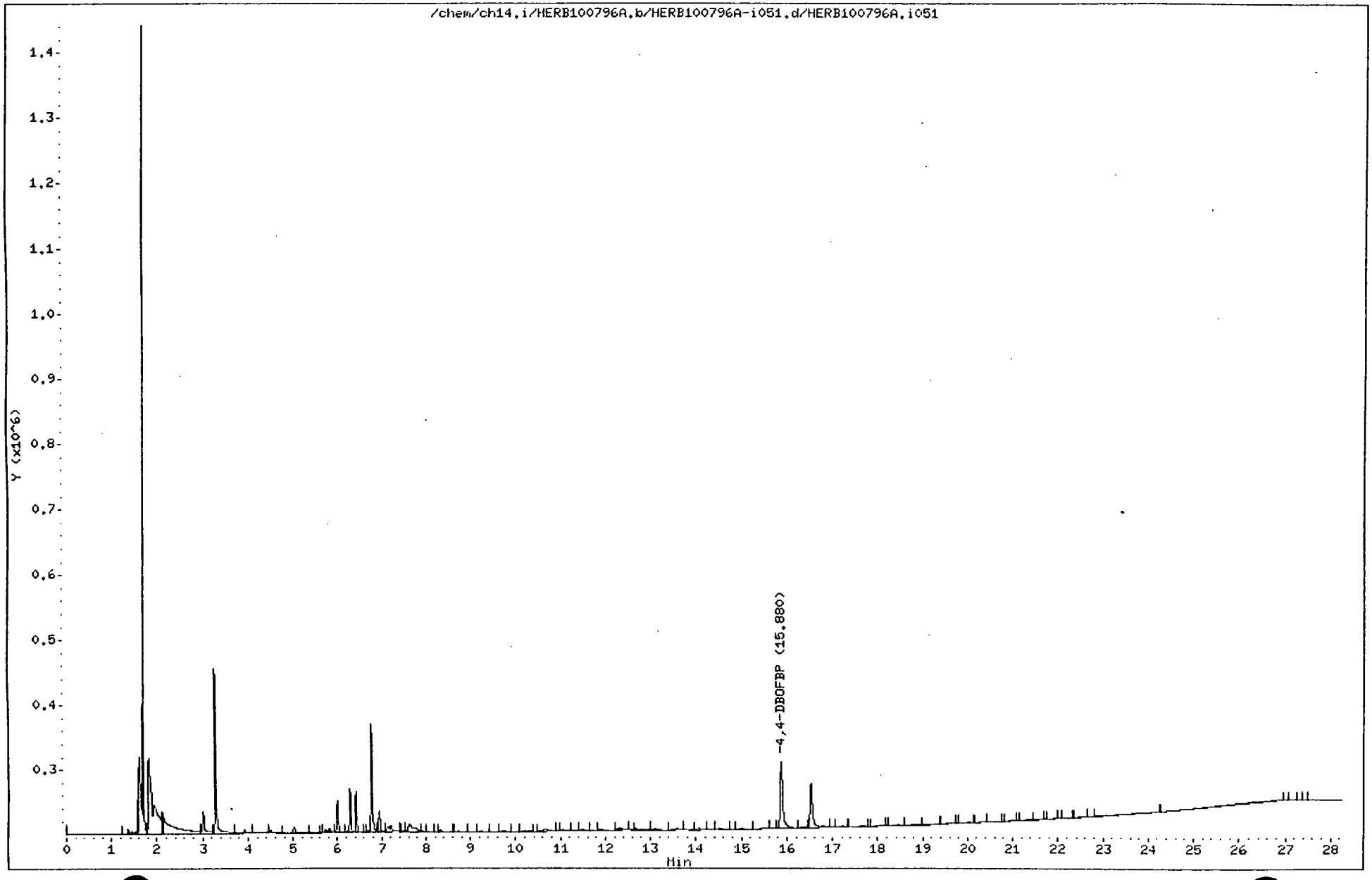
Instrument: ch14.i

Sample Info: PENTACHLR. CAL STD - L3 #AA904-80-1

Operator: MAKOWALSKI

Column phase: DB-1701

Column diameter: 0.53



7112

Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i051.d
Lab Smp Id: PENTCHLL3 Client Smp ID: PENTCHLL3
Inj Date : 08-OCT-96 00:15:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : PENTACHLR. CAL STD - L3 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:14:28 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Pentachlorophenol	16.922	16.931	(1.166)	223557	0.0237	0.0232
* 7 4,4-DBOFBP	14.515	14.524	(1.000)	343824	1.00	

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i051.d

Date : 08-OCT-96 00:15:00

Client ID: PENTCHLL3

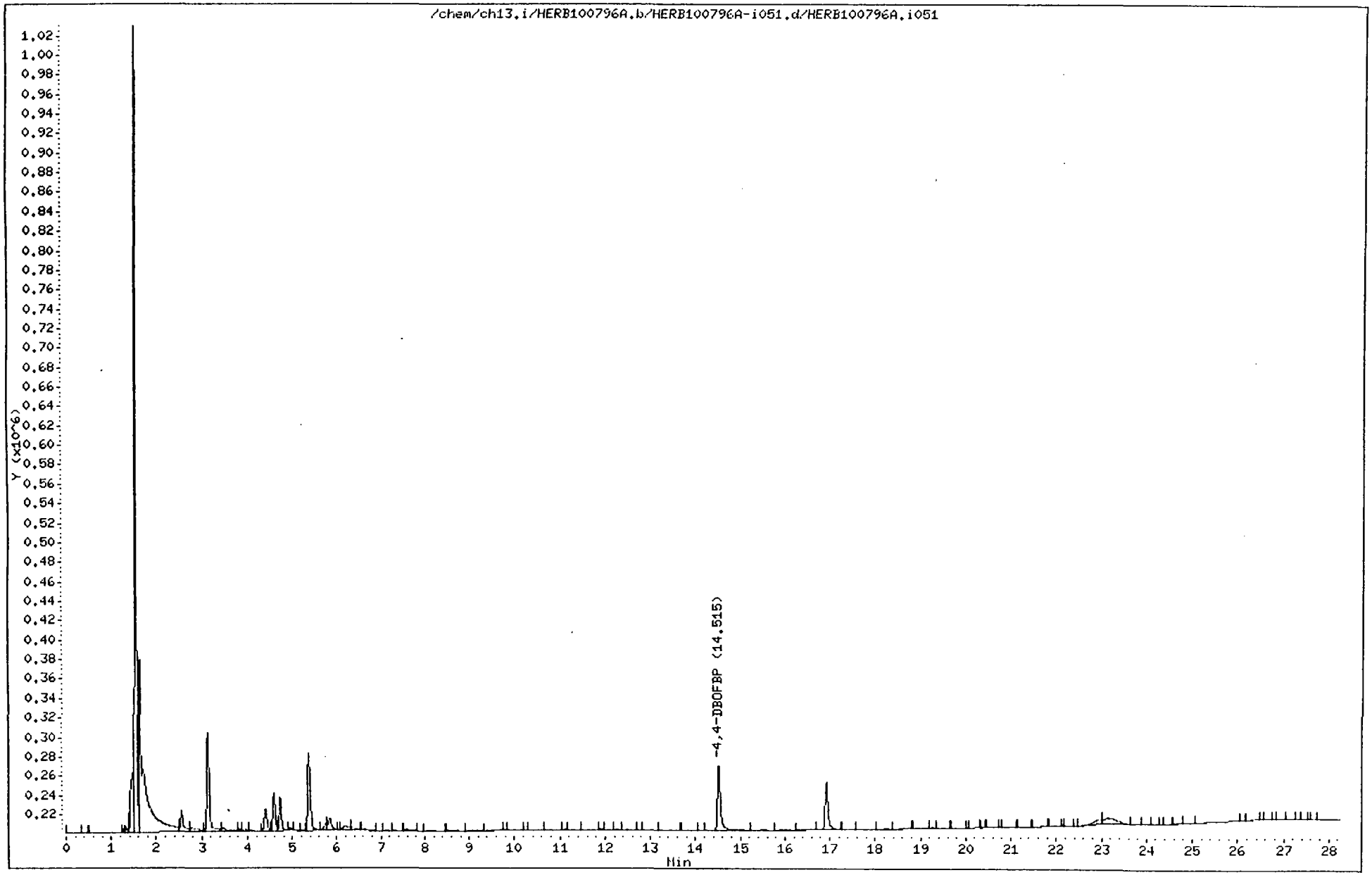
Sample Info: PENTACHLR. CAL STD - L3 #AA904-80-1

Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i061.d
Lab Smp Id: PENTCHLL4 Client Smp ID: PENTCHLL4
Inj Date : 08-OCT-96 00:50:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : PENTACHLR. CAL STD - L4 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 00:50:00 Cal File: HERB100796A.i061
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

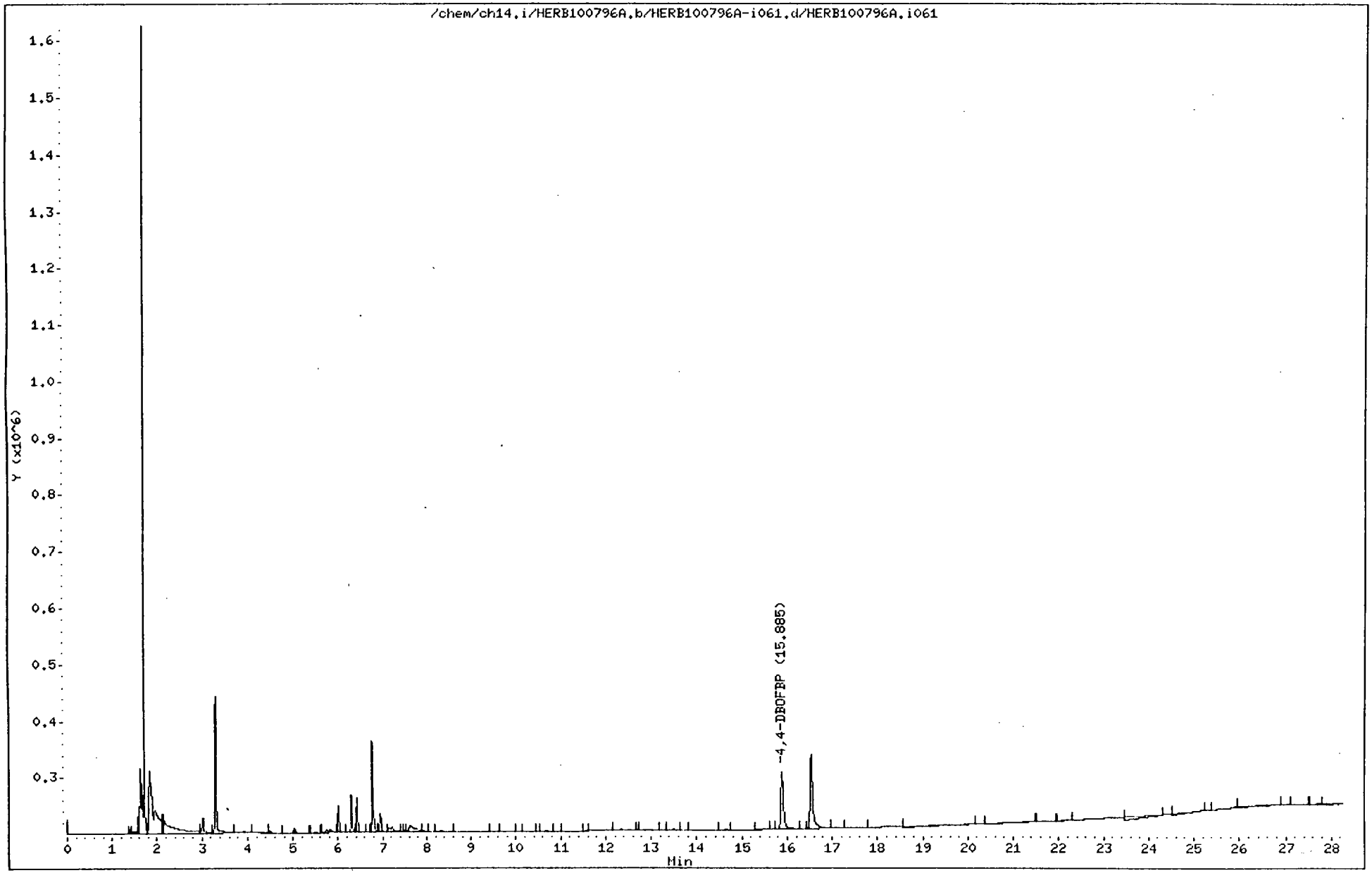
Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 8 4,4-DBOFBP	15.885	15.862	(1.000)	416451	1.00	
9 Pentachlorophenol	16.536	16.527	(1.041)	554291	0.0475	0.0414

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i061.d
Date : 08-OCT-96 00:50:00
Client ID: PENTCHLL4
Sample Info: PENTACHLR, CAL STD - L4 #AA904-80-1

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI
Column diameter: 0.53



8117

Thru-Put Systems, Inc.

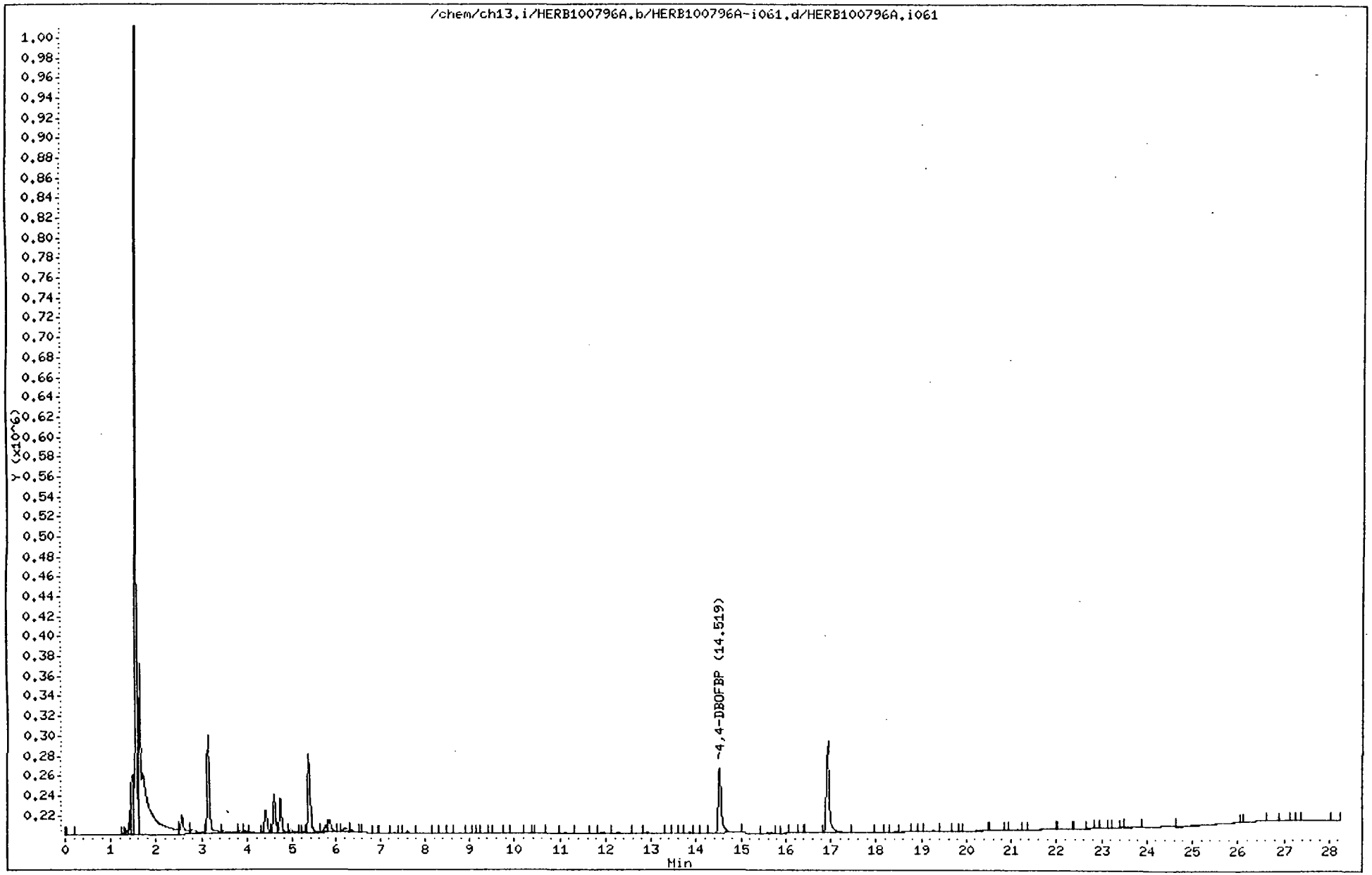
Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i061.d
Lab Smp Id: PENTCHLL4 Client Smp ID: PENTCHLL4
Inj Date : 08-OCT-96 00:50:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : PENTACHLR. CAL STD - L4 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:14:28 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Pentachlorophenol	16.931	16.931	(1.166)	431325	0.0475	0.0475
* 7 4,4-DBOFBP	14.519	14.524	(1.000)	324704	1.00	

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i061.d
Date : 08-OCT-96 00:50:00
Client ID: PENTCHLL4
Sample Info: PENTACHLR. CAL STD - L4 #AA904-80-1

Instrument: ch13.i
Operator: MAKOWALSKI
Column diameter: 0.53

Column phase: DB-608



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i071.d
Lab Smp Id: PENTCHLL5 Client Smp ID: PENTCHLL5
Inj Date : 08-OCT-96 01:26:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : PENTACHLR. CAL STD - L5 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 01:26:00 Cal File: HERB100796A-i071.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 8 4,4-DBOFBP	15.889	15.862	(1.000)	435891	1.00	
9 Pentachlorophenol	16.541	16.527	(1.041)	1470155	0.119	0.107

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i071.d

Page 2

Date : 08-OCT-96 01:26:00

Client ID: PENTCHLL5

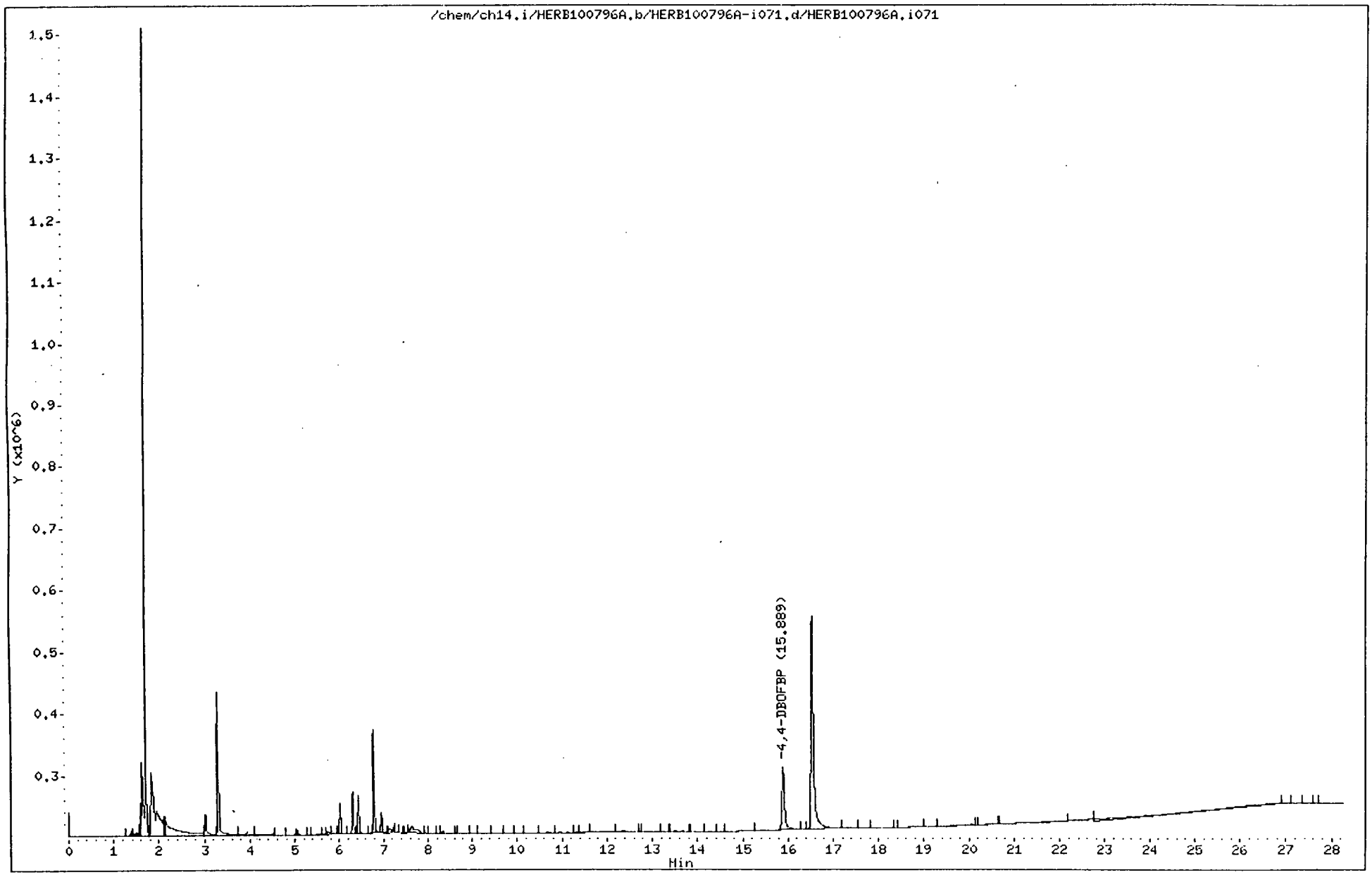
Instrument: ch14.i

Sample Info: PENTACHLR. CAL STD - L5 #AA904-80-1

Operator: MAKOWALSKI

Column phase: DB-1701

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i071.d
Lab Smp Id: PENTCHLL5 Client Smp ID: PENTCHLL5
Inj Date : 08-OCT-96 01:26:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : PENTACHLR. CAL STD - L5 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:14:28 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Pentachlorophenol	16.931	16.931	(1.166)	1060901	0.119	0.118
* 7 4,4-DBOFBP	14.524	14.524	(1.000)	340928	1.00	

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i071.d

Date : 08-OCT-96 01:26:00

Client ID: PENTCHLL5

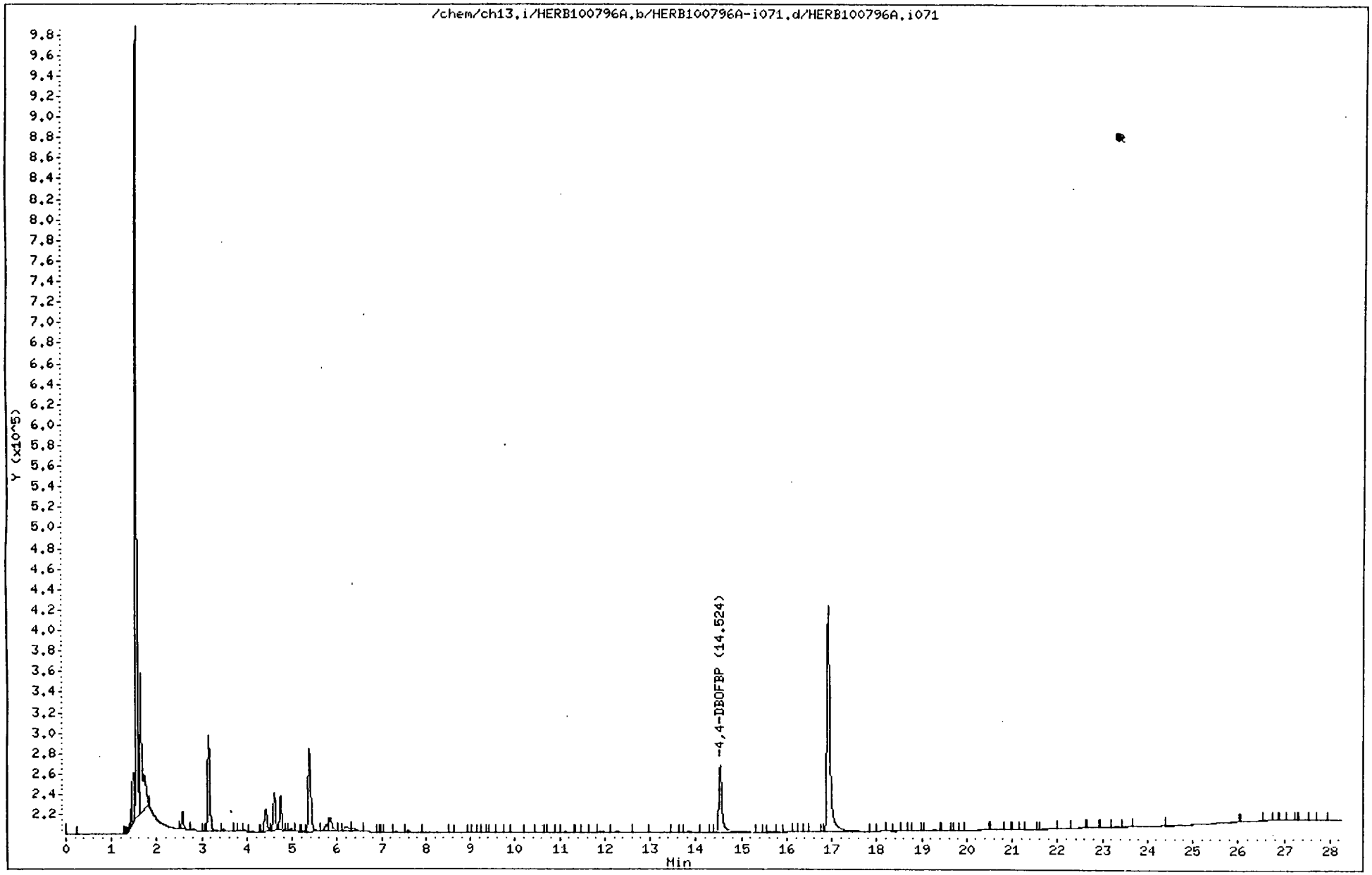
Sample Info: PENTACHLR. CAL STD - L5 #AA904-80-1

Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i081.d
Lab Smp Id: PENTCHLL6 Client Smp ID: PENTCHLL6
Inj Date : 08-OCT-96 02:01:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : PENTACHLR. CAL STD - L6 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:01:00 Cal File: HERB100796A-i081.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 8 4,4-DBOFBP	15.862	15.862	(1.000)	422454	1.00	
9 Pentachlorophenol	16.510	16.527	(1.041)	2300572	0.190	0.182

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i081.d

Date : 08-OCT-96 02:01:00

Client ID: PENTCHLL6

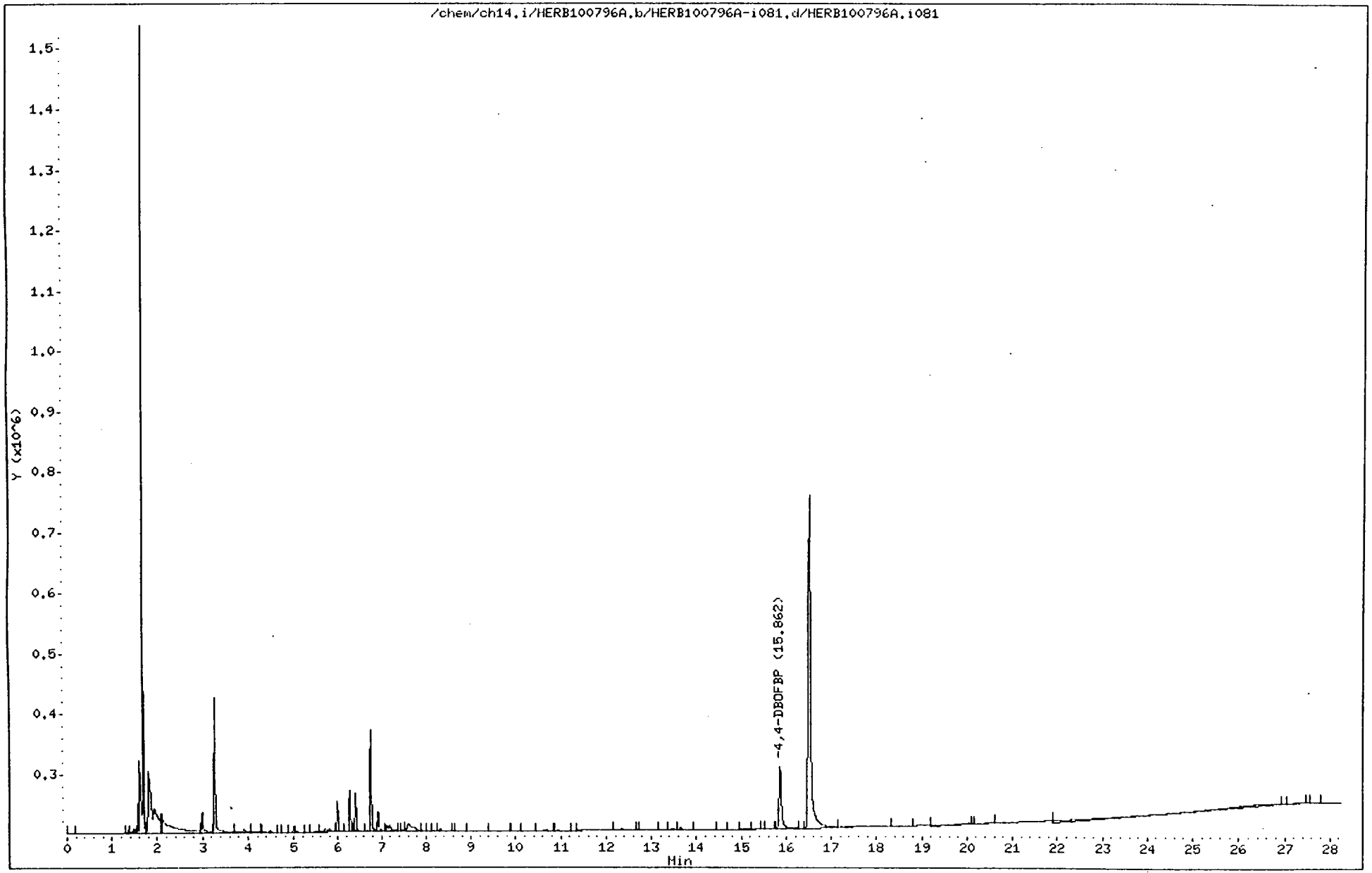
Instrument: ch14.i

Sample Info: PENTACHLR. CAL STD - L6 #AA904-80-1

Operator: MAKOWALSKI

Column phase: DB-1701

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i081.d
Lab Smp Id: PENTCHLL6 Client Smp ID: PENTCHLL6
Inj Date : 08-OCT-96 02:01:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : PENTACHLR. CAL STD - L6 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:14:28 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Pentachlorophenol	16.918	16.931	(1.166)	1600675	0.190	0.188
* 7 4,4-DBOFBP	14.515	14.524	(1.000)	327039	1.00	

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i081.d

Date : 08-OCT-96 02:01:00

Client ID: PENTCHLL6

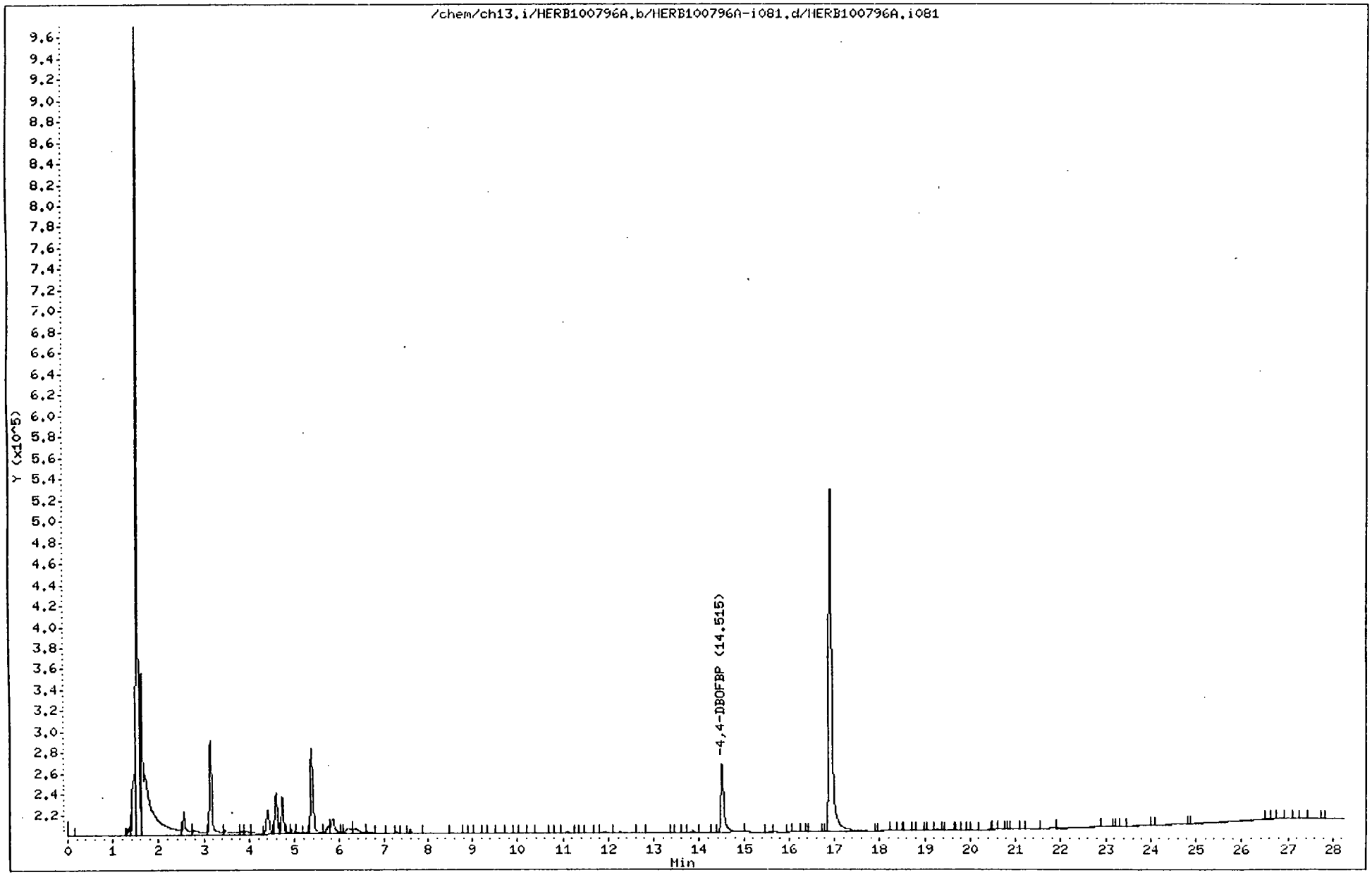
Instrument: ch13.i

Sample Info: PENTACHLR. CAL STD - L6 #AA904-80-1

Operator: HAKOWALSKI

Column phase: DB-608

Column diameter: 0.53



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Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i091.d
Lab Smp Id: PENTCHLL7 Client Smp ID: PENTCHLL7
Inj Date : 08-OCT-96 02:37:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : PENTACHLR. CAL STD - L7 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 8 4,4-DBOFBP	15.880	15.862	(1.000)	421576	1.00	
9 Pentachlorophenol	16.527	16.527	(1.041)	2907842	0.237	0.241

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i091.d

Date : 08-OCT-96 02:37:00

Client ID: PENTCHLL7

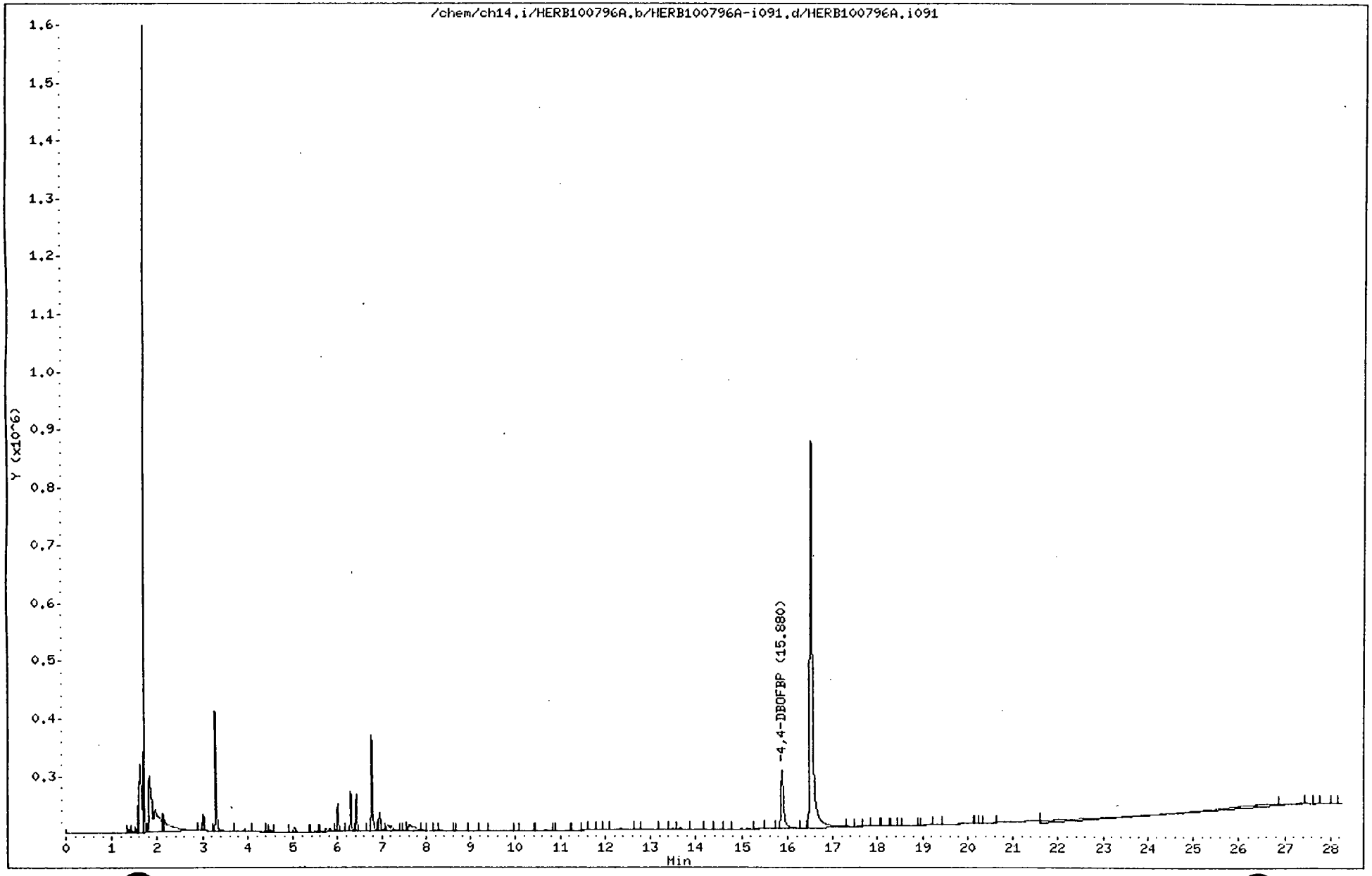
Sample Info: PENTACHLR. CAL STD - L7 #AA904-80-1

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i091.d
Lab Smp Id: PENTCHLL7 Client Smp ID: PENTCHLL7
Inj Date : 08-OCT-96 02:37:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : PENTACHLR. CAL STD - L7 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:14:28 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A.i091
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Pentachlorophenol	16.931	16.931	(1.166)	1971796	0.237	0.233
* 7 4,4-DBOFBP	14.524	14.524	(1.000)	332131	1.00	

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i091.d

Page 2

Date : 08-OCT-96 02:37:00

Client ID: PENTCHLL7

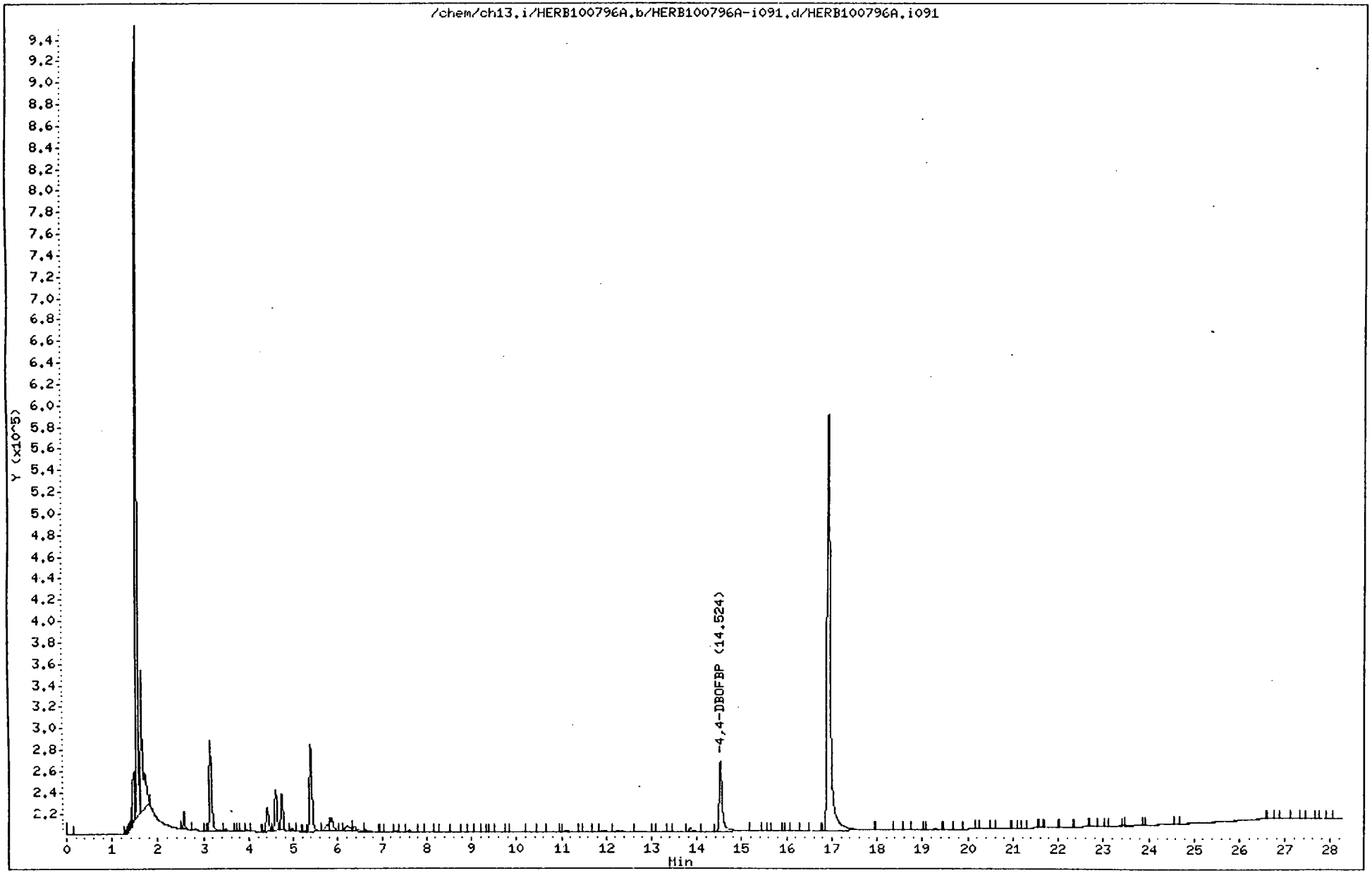
Instrument: ch13.i

Sample Info: PENTACHLR. CAL STD - L7 #AA904-80-1

Operator: MAKOWALSKI

Column phase: DB-608

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i121.d
Lab Smp Id: PENTCHL-1 Client Smp ID: PENTCHL-1
Inj Date : 08-OCT-96 04:24:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : PENTACHLR. CAL STD - L4 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 8 4,4-DBOFBP	15.880	15.862	(1.000)	389714	1.00	
9 Pentachlorophenol	16.527	16.527	(1.041)	546498	0.0475	0.0486

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i121.d

Date : 08-OCT-96 04:24:00

Client ID: PENTCHL-1

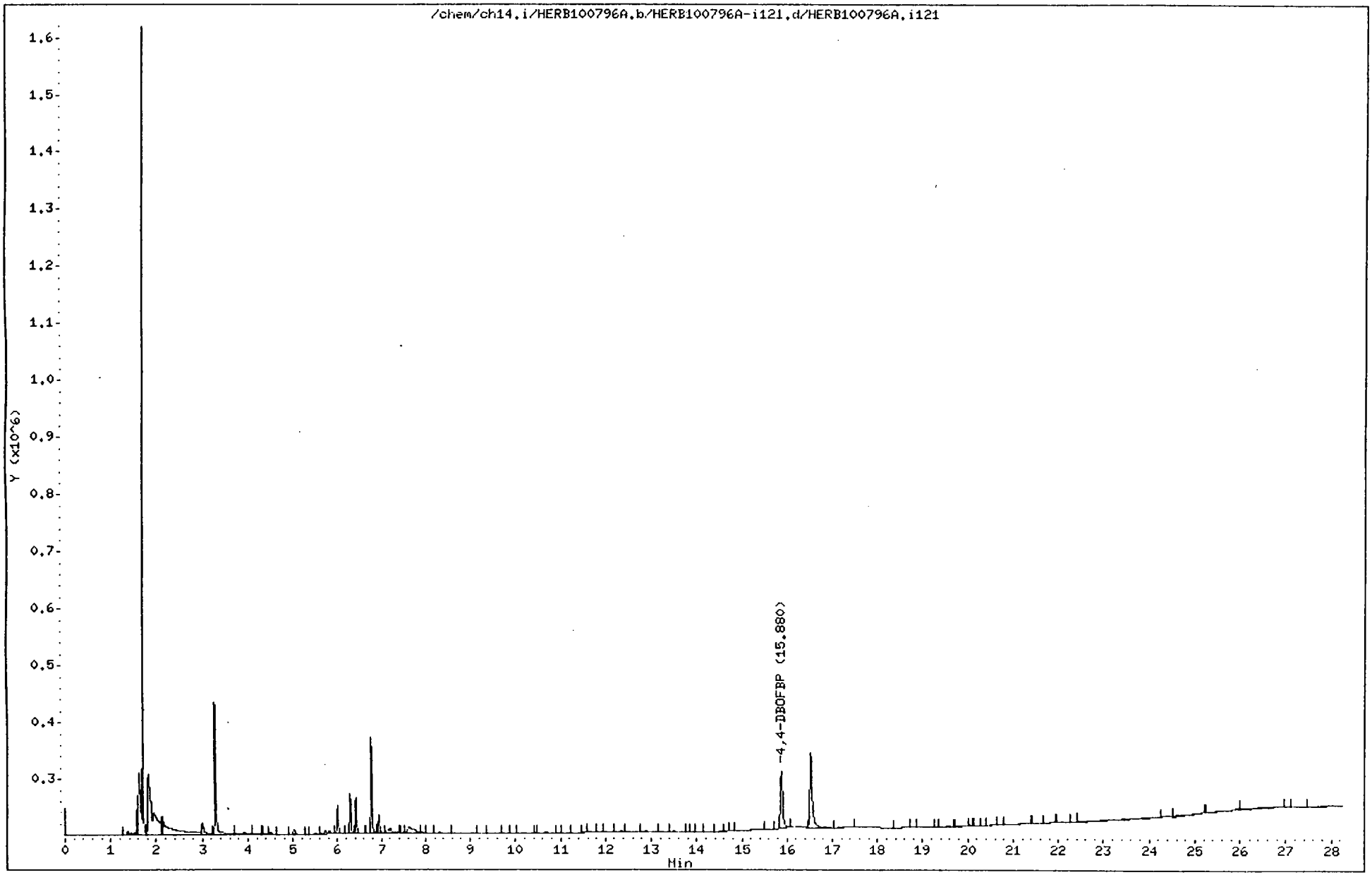
Sample Info: PENTACHLR. CAL STD - L4 #AA904-80-1

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i121.d
Lab Smp Id: PENTCHL-1 Client Smp ID: PENTCHL-1
Inj Date : 08-OCT-96 04:24:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : PENTACHLR. CAL STD - L4 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:21:37 Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A.i091
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Pentachlorophenol	16.926	16.931	(1.166)	429213	0.0475	0.0522
* 7 4,4-DBOFBP	14.519	14.524	(1.000)	322163	1.00	

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i121.d

Date : 08-OCT-96 04:24:00

Client ID: PENTCHL-1

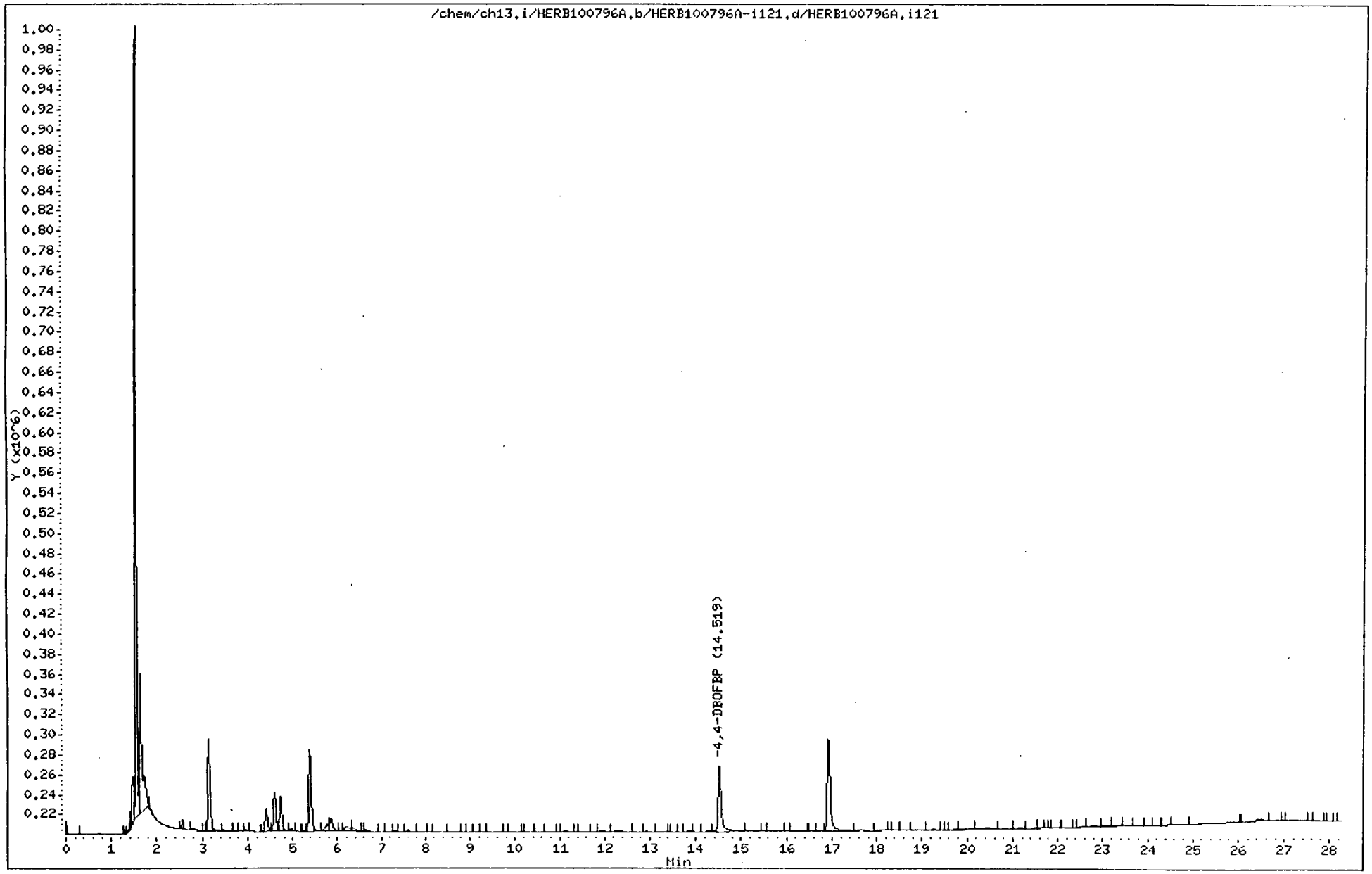
Instrument: ch13.i

Sample Info: PENTACHLR. CAL STD - L4 #AA904-80-1

Operator: MAKOWALSKI

Column phase: DB-608

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i211.d
Lab Smp Id: HERBCAL-2 Client Smp ID: HERBCAL-2
Inj Date : 08-OCT-96 09:45:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L5 #AA904-79-3
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.544	4.526	(0.286)	748662	0.427	0.603
$	2 2,4-Dichlorophenylacetic acid	13.841	13.823	(0.872)	169074	0.175	0.244
	3 Dicamba	14.191	14.178	(0.894)	74905	0.0176	0.0232
	4 MCPP	14.524	14.506	(0.915)	115702	17.6	18.7
	5 MCPA	15.060	15.047	(0.949)	152466	17.5	26.9
	6 Dichlorprop	15.645	15.632	(0.985)	222192	0.177	0.240
	7 2,4-D	16.363	16.346	(1.031)	226032	0.176	0.245
*	8 4,4-DBOFBP	15.876	15.862	(1.000)	417274	1.00	
	10 2,4,5-TP Silvex	17.667	17.649	(1.113)	126697	0.0178	0.0219
	11 2,4,5-T	18.514	18.483	(1.166)	110794	0.0178	0.0217
	12 2,4-DB	19.360	19.329	(1.219)	103227	0.178	0.207
	13 Dinoseb	20.234	20.216	(1.275)	396076	0.0886	0.115

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i211.d

Date : 08-OCT-96 09:45:00

Client ID: HERBCAL-2

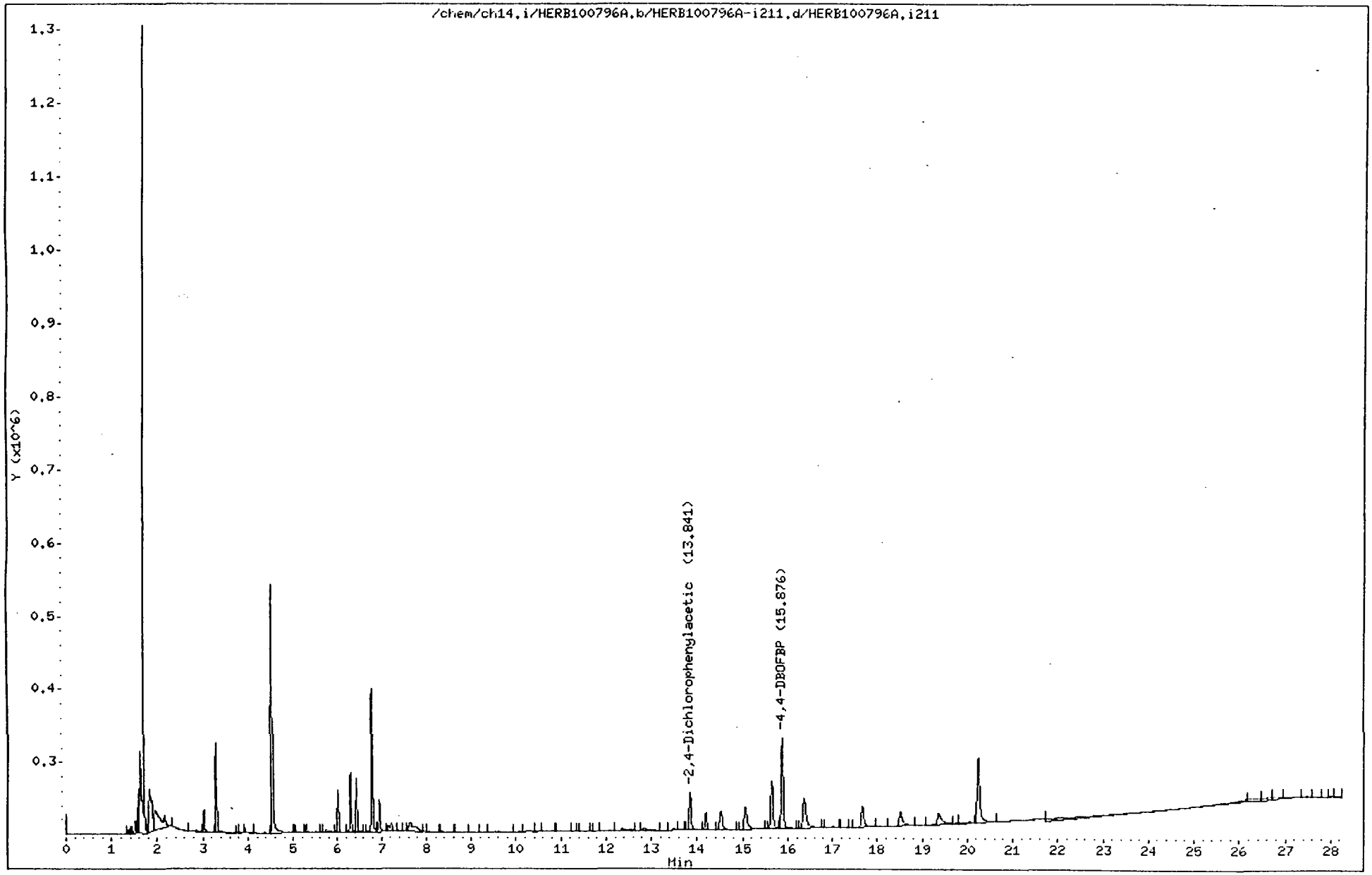
Sample Info: HERBICIDE CAL STD - L5 #AA904-79-3

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i211.d
Lab Smp Id: HERBCAL-1 Client Smp ID: HERBCAL-1
Inj Date : 08-OCT-96 09:45:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L5 #AA904-79-3
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:30:34 Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A.i091
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

						AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	Compounds	RT	EXP RT	REL RT	RESPONSE		
	1 Dalapon	4.247	4.247	(0.293)	515710	0.569	0.599
$	2 2,4-Dichlorophenylacetic acid	13.934	13.934	(0.961)	155584	0.234	0.234
	3 Dicamba	14.395	14.431	(0.992)	61965	0.0235	0.0245
	4 MCPP	14.289	14.289	(0.985)	85067	23.5	24.6
	5 MCPA	14.954	14.958	(1.031)	118996	23.5	21.1
	6 Dichlorprop	15.463	15.468	(1.066)	198340	0.236	0.249
*	7 4,4-DBOFBP	14.506	14.524	(1.000)	311679	1.00	
	8 2,4-D	16.288	16.217	(1.123)	200865	0.235	0.244
	10 2,4,5-TP Silvex	17.481	17.472	(1.205)	102624	0.0238	0.0232
	11 2,4,5-T	18.434	18.456	(1.271)	75099	0.0237	0.0190
	12 2,4-DB	19.201	19.179	(1.324)	107188	0.237	0.235
	13 Dinoseb	18.593	18.580	(1.282)	344922	0.118	0.125

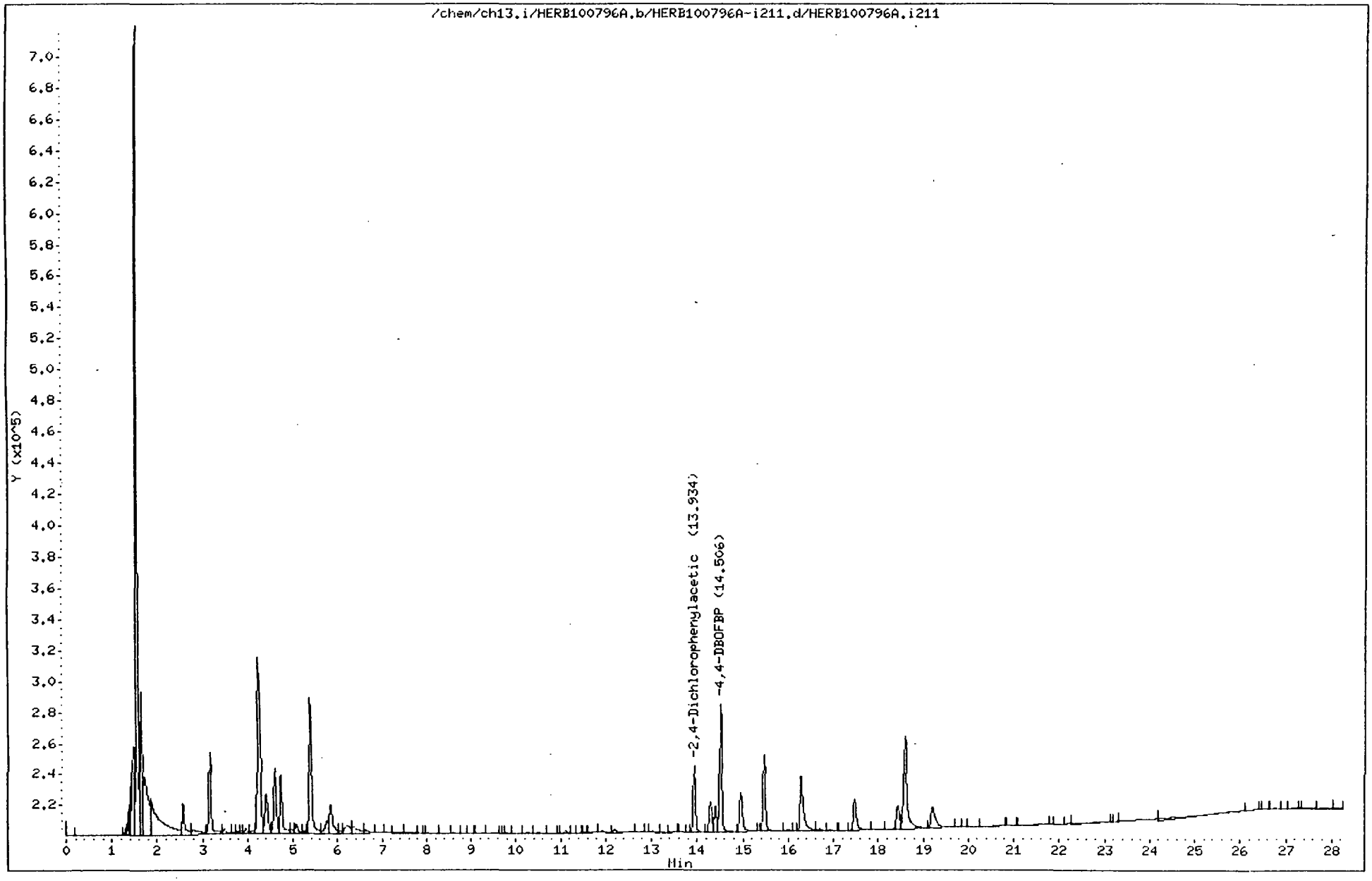
Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i211.d
Date : 08-OCT-96 09:45:00
Client ID: HERBCAL-1
Sample Info: HERBICIDE CAL STD - L5 #AA904-79-3

Instrument: ch13.i

Operator: MAKOWALSKI

Column phase: DB-608

Column diameter: 0.53



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Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i221.d
Lab Smp Id: PENTCHL-2 Client Smp ID: PENTCHL-2
Inj Date : 08-OCT-96 10:20:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : PENTACHL. CAL STD - L4 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 8 4,4-DBOFBP	15.902	15.862	(1.000)	427539	1.00	
9 Pentachlorophenol	16.550	16.527	(1.041)	587812	0.0475	0.0477

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i221.d

Date : 08-OCT-96 10:20:00

Client ID: PENTCHL-2

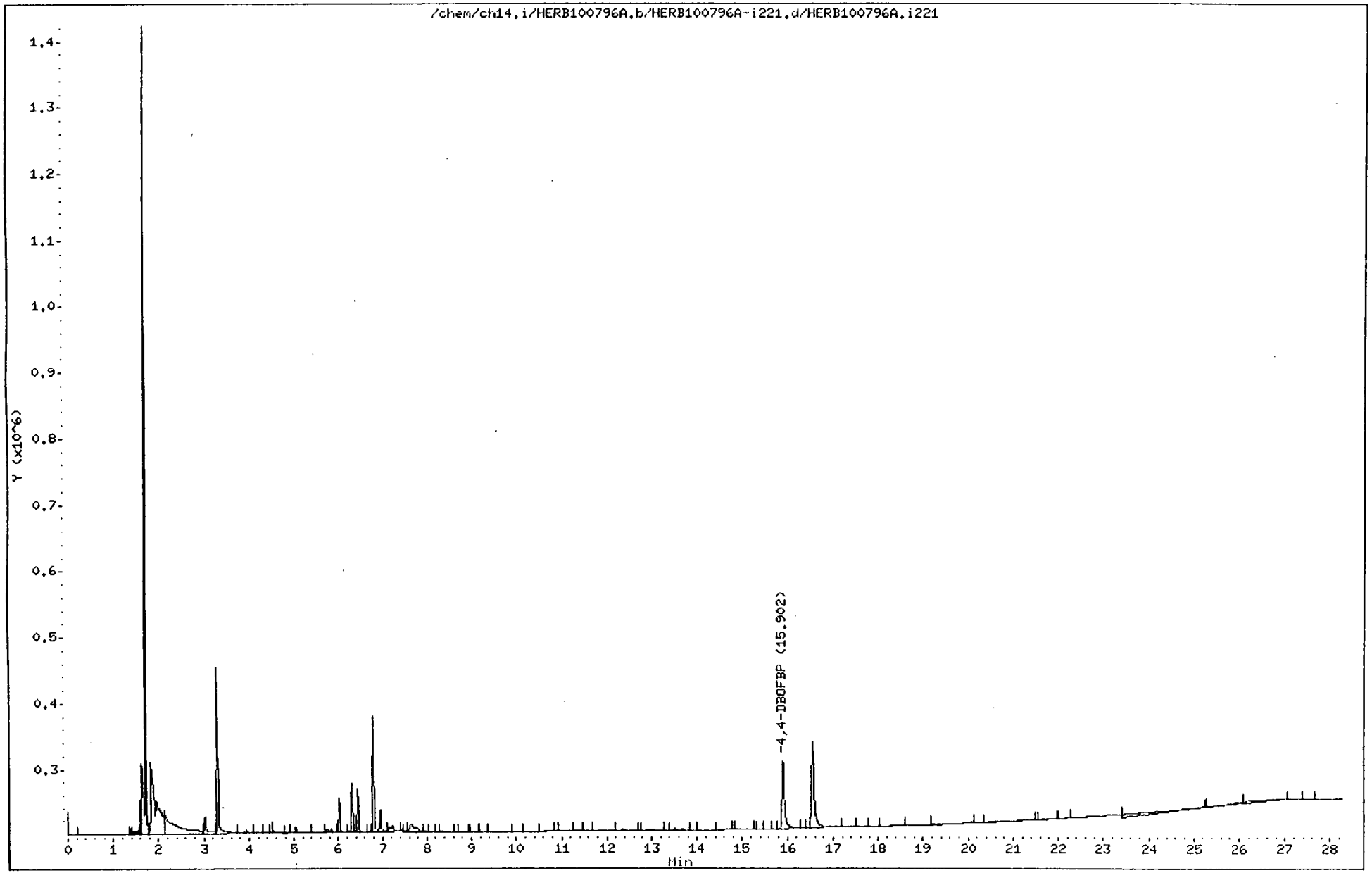
Instrument: ch14.i

Sample Info: PENTACHL. CAL STD - L4 #AA904-80-1

Operator: MAKOWALSKI

Column phase: DB-1701

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i221.d
Lab Smp Id: PENTCHL-2 Client Smp ID: PENTCHL-2
Inj Date : 08-OCT-96 10:20:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : PENTACHL. CAL STD - L4 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:21:37 Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A.i091
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Pentachlorophenol	16.935	16.931	(1.165)	443250	0.0475	0.0529
* 7 4,4-DBOFBP	14.532	14.524	(1.000)	328411	1.00	

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i221.d

Date : 08-OCT-96 10:20:00

Client ID: PENTCHL-2

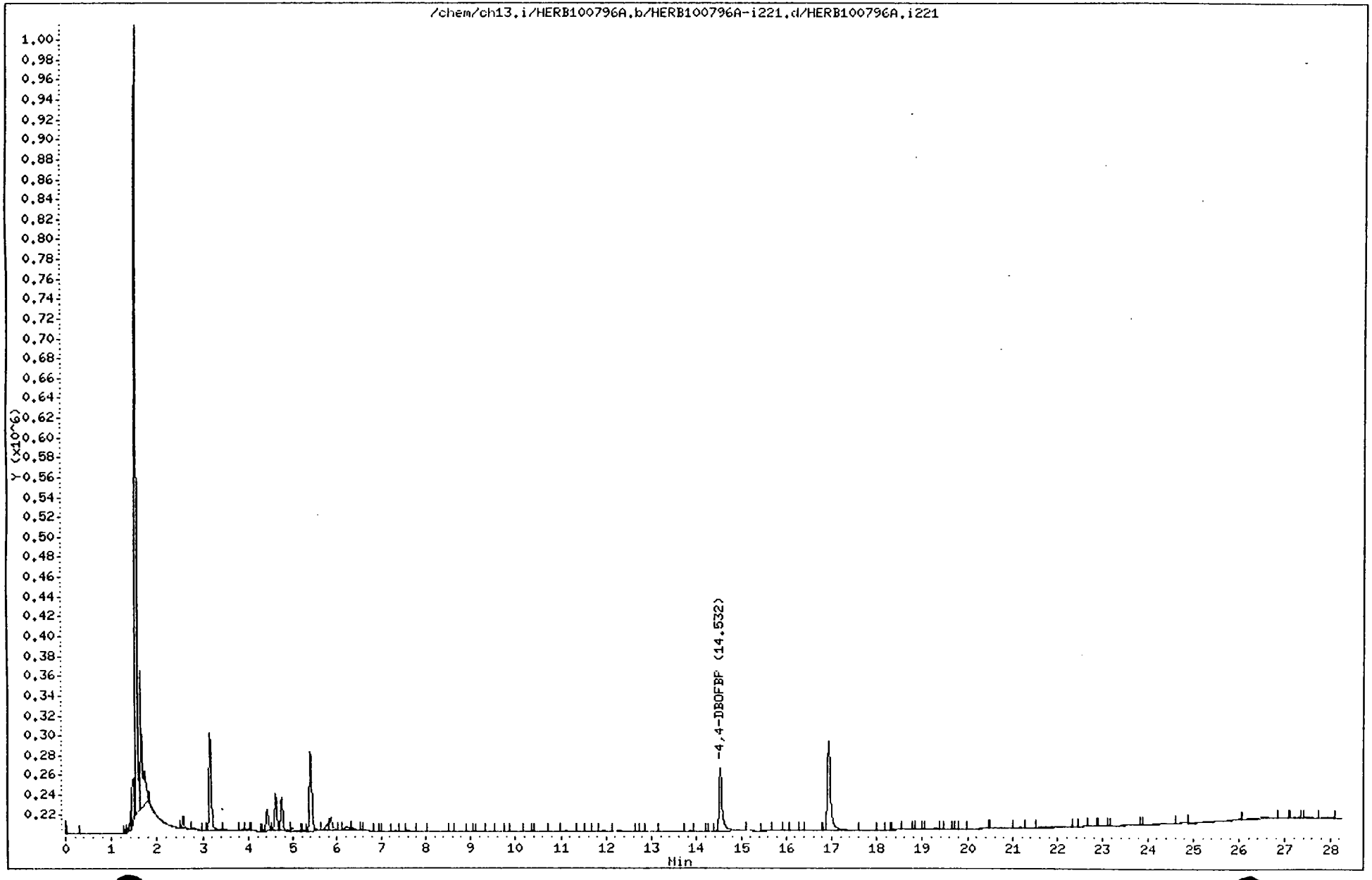
Sample Info: PENTACHL. CAL STD - L4 #AA904-80-1

Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i321.d
Lab Smp Id: HERBCAL-3 Client Smp ID: HERBCAL-3
Inj Date : 08-OCT-96 16:21:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : HERBICIDE CAL STD - L5 #AA904-79-3
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.526	4.526	(0.285)	777639	0.427	0.612
$	2 2,4-Dichlorophenylacetic acid	13.823	13.823	(0.871)	172589	0.175	0.244
	3 Dicamba	14.178	14.178	(0.894)	76374	0.0176	0.0232
	4 MCPP	14.506	14.506	(0.914)	110935	17.6	15.6
	5 MCPA	15.047	15.047	(0.949)	136112	17.5	21.9
	6 Dichlorprop	15.632	15.632	(0.985)	224035	0.177	0.237
	7 2,4-D	16.346	16.346	(1.030)	223901	0.176	0.237
*	8 4,4-DBOFBP	15.862	15.862	(1.000)	426780	1.00	
	10 2,4,5-TP Silvex	17.649	17.649	(1.113)	134868	0.0178	0.0228
	11 2,4,5-T	18.483	18.483	(1.165)	110495	0.0178	0.0211
	12 2,4-DB	19.329	19.329	(1.219)	93135	0.178	0.183
	13 Dinoseb	20.216	20.216	(1.274)	407217	0.0886	0.115

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i321.d

Date : 08-OCT-96 16:21:00

Client ID: HERBCAL-3

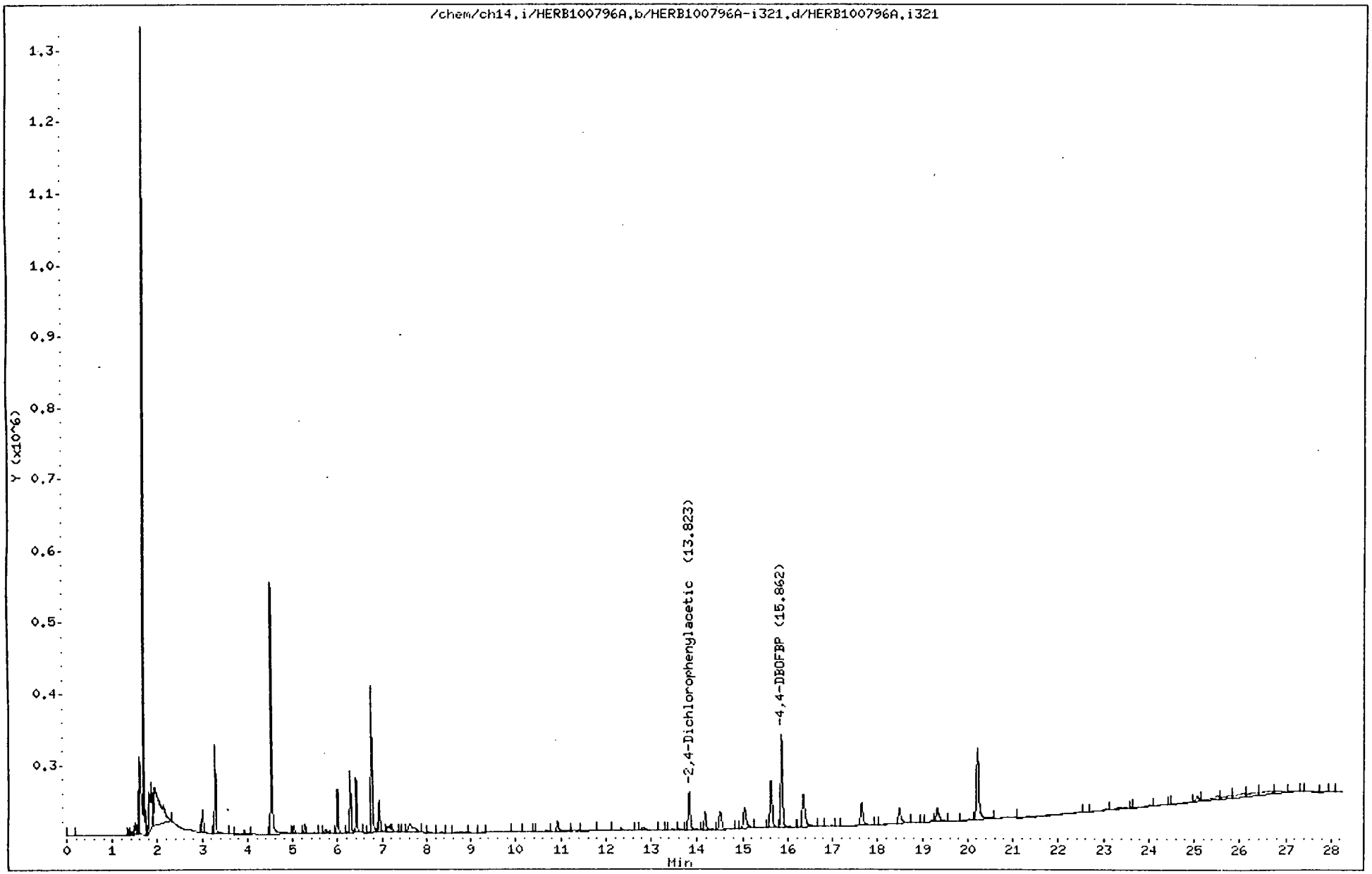
Sample Info: HERBICIDE CAL STD - L5 . #AA904-79-3

Column phase: DB-1701

Instrument: ch14.i

Operator: MAKOWALSKI

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i321.d
Lab Smp Id: HERBCAL-2 Client Smp ID: HERBCAL-2
Inj Date : 08-OCT-96 16:21:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : HERBICIDE CAL STD - L5 #AA904-79-3
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:30:34 Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A.i091
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

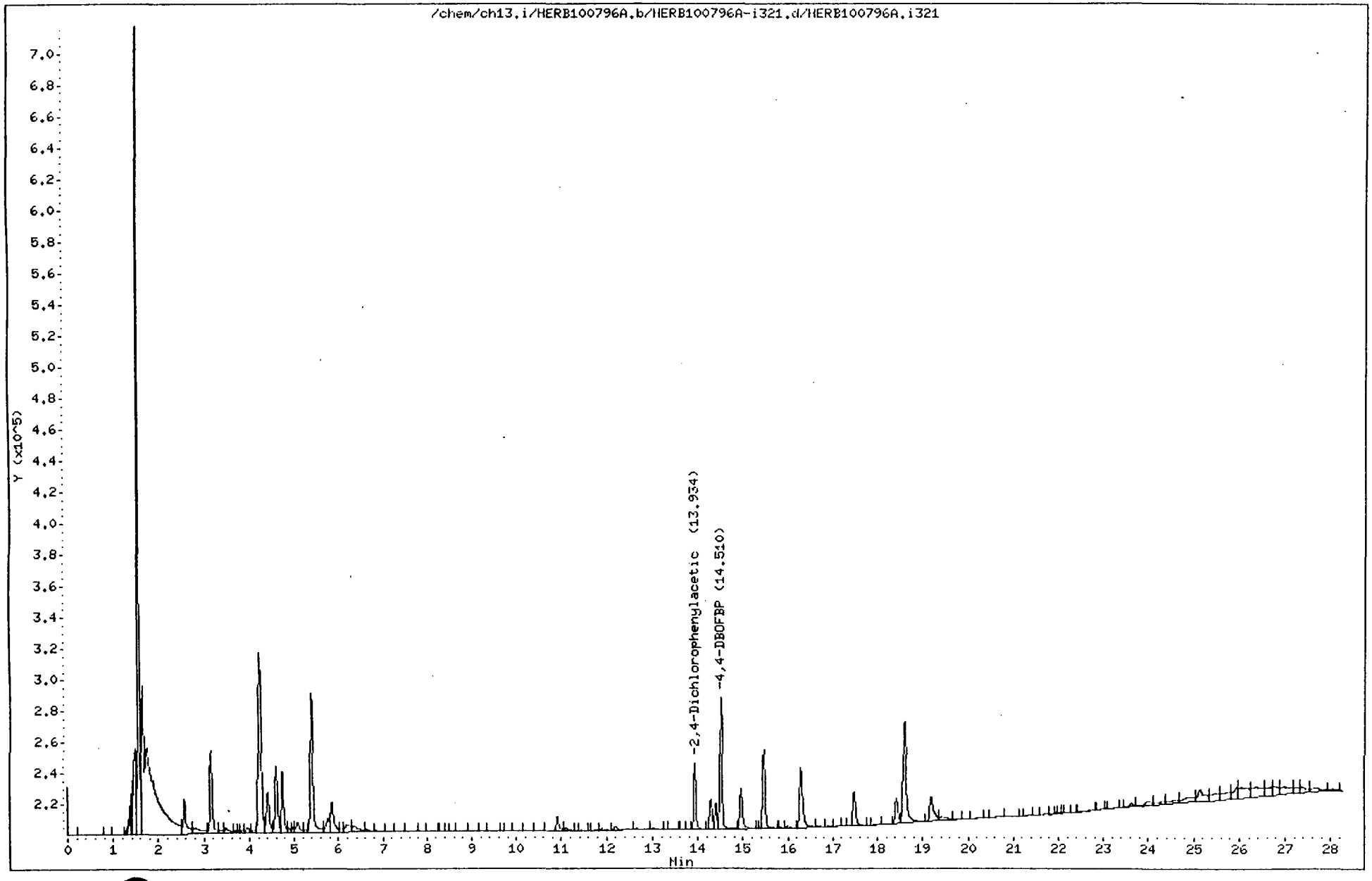
	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Dalapon	4.247	4.247	(0.293)	527135	0.569	0.604
$	2 2,4-Dichlorophenylacetic acid	13.934	13.934	(0.960)	155146	0.234	0.231
	3 Dicamba	14.399	14.431	(0.992)	59704	0.0235	0.0233
	4 MCPP	14.289	14.289	(0.985)	82643	23.5	23.2
	5 MCPA	14.954	14.958	(1.031)	114122	23.5	19.1
	6 Dichlorprop	15.463	15.468	(1.066)	197041	0.236	0.244
*	7 4,4-DBOFBP	14.510	14.524	(1.000)	315780	1.00	
	8 2,4-D	16.293	16.217	(1.123)	193284	0.235	0.231
	10 2,4,5-TP Silvex	17.476	17.472	(1.204)	103301	0.0238	0.0230
	11 2,4,5-T	18.421	18.456	(1.269)	76240	0.0237	0.0191
	12 2,4-DB	19.183	19.179	(1.322)	100301	0.237	0.217
	13 Dinoseb	18.593	18.580	(1.281)	333556	0.118	0.119

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i321.d
Date : 08-OCT-96 16:21:00
Client ID: HERBCAL-2
Sample Info: HERBICIDE CAL STD - L5 #AA904-79-3

Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI
Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i331.d
Lab Smp Id: PENTCHL-3 Client Smp ID: PENTCHL-3
Inj Date : 08-OCT-96 16:57:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : PENTACHL. CAL STD - L4 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 8 4,4-DBOFBP	15.876	15.862	(1.000)	438143	1.00	
9 Pentachlorophenol	16.527	16.527	(1.041)	596755	0.0475	0.0472

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i331.d

Date : 08-OCT-96 16:57:00

Client ID: PENTCHL-3

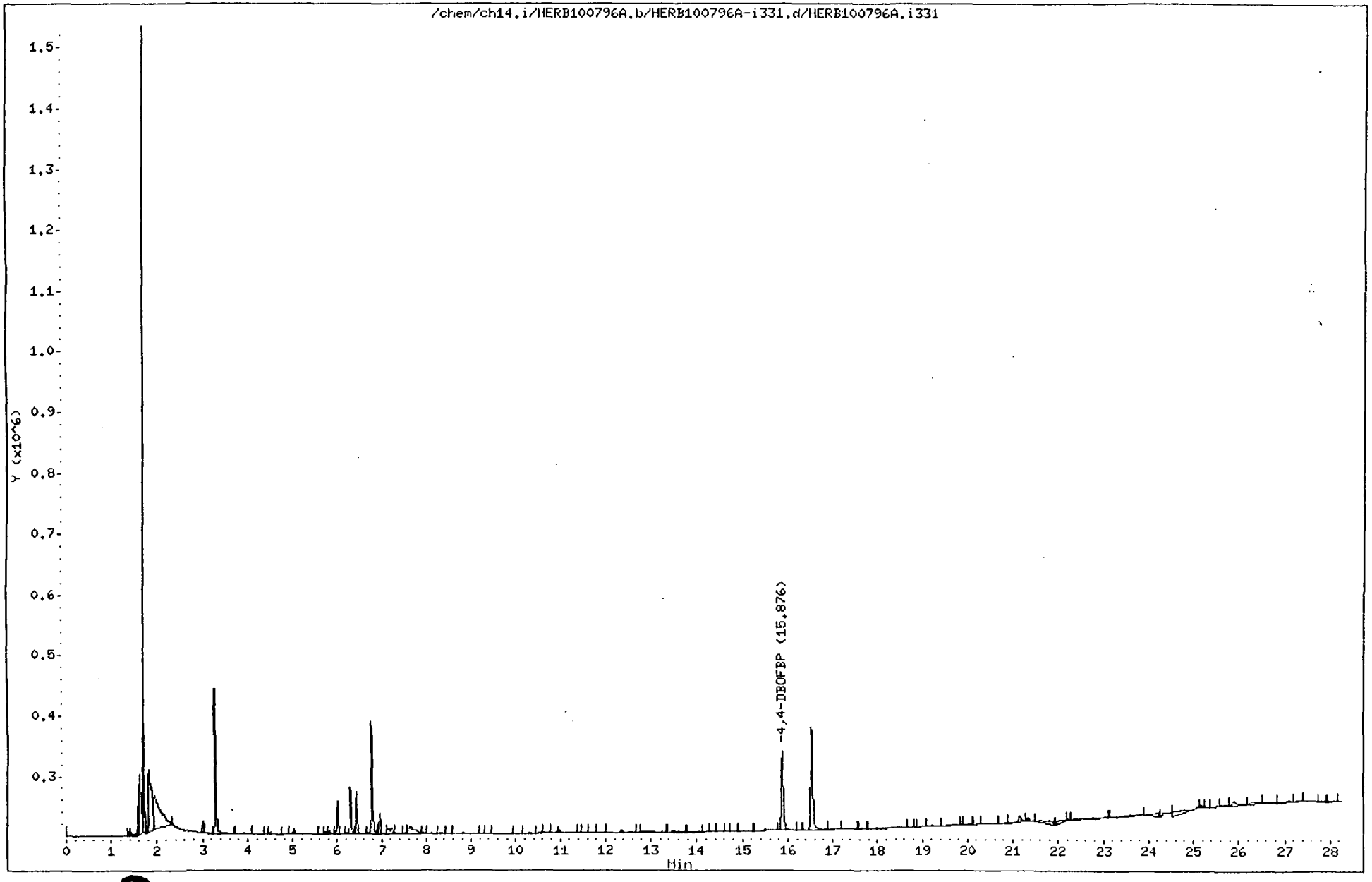
Instrument: ch14.i

Sample Info: PENTACHL. CAL STD - L4 #AA904-80-1

Operator: MAKOWALSKI

Column phase: DB-1701

Column diameter: 0.53



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Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i331.d
Lab Smp Id: PENTCHL-3 Client Smp ID: PENTCHL-3
Inj Date : 08-OCT-96 16:57:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : PENTACHL. CAL STD - L4 #AA904-80-1
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:21:37 Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A.i091
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PENTCHL.sub
Target Version: 3.21
Processing Host: GC1

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Pentachlorophenol	16.931	16.931	(1.166)	440925	0.0475	0.0519
* 7 4,4-DBOFBP	14.519	14.524	(1.000)	333238	1.00	

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i331.d

Date : 08-OCT-96 16:57:00

Client ID: PENTCHL-3

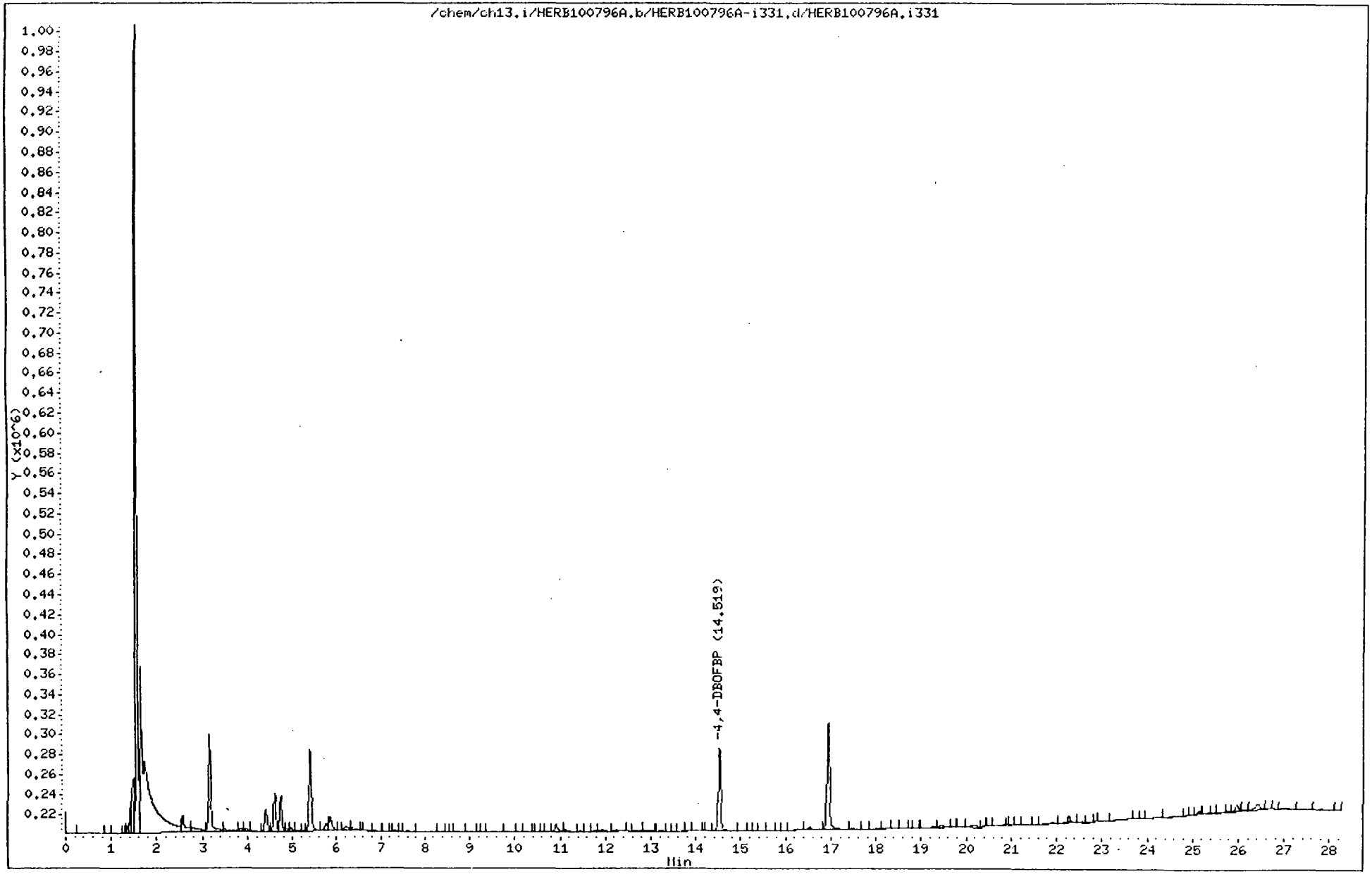
Sample Info: PENTACHL. CAL STD - L4 #AA904-80-1

Column phase: DB-608

Instrument: ch13.i

Operator: MAKOWALSKI

Column diameter: 0.53



742

RAW QUALITY CONTROL DATA

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

AT Kearney SAMPLE NO.

BLK

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: HERB100796A-I291

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/96

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/96

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	1.00	U
93-72-1	2,4,5-TP Silvex	0.200	U
93-76-5	2,4,5-T	0.200	U
	Pentachlorophenol	10.00	U

Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100796A.b\HERB100796A-i291.d
Lab Smp Id: BLK Client Smp ID: BLK
Inj Date : 08-OCT-96 14:34:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : BLANK 1000/10 8150 AB879-89 9-29-96
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100796A.b\14herb0930.m
Meth Date : 29-Oct-96 17:08:18 makowalski Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A-i091.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ATKLIST.sub
Target Version: 3.21
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 2 2,4-Dichlorophenylacetic acid	13.841	13.823	(0.872)	147324	0.208	4.17(a)
7 2,4-D	16.394	16.346	(1.033)	4152	0.00445	0.0889(a)
* 8 4,4-DBOFBP	15.867	15.862	(1.000)	422651	1.00	
10 2,4,5-TP Silvex	17.649	17.649	(1.112)	42354	0.00722	0.144(a)
11 2,4,5-T	18.407	18.483	(1.160)	12016	0.00232	0.0464(a)
9 Pentachlorophenol	16.523	16.527	(1.041)	8877	0.000729	0.0146

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/ch14.i/HERB100796A.b/HERB100796A-i291.d

Date : 08-OCT-96 14:34:00

Client ID: BLK

Instrument: ch14.i

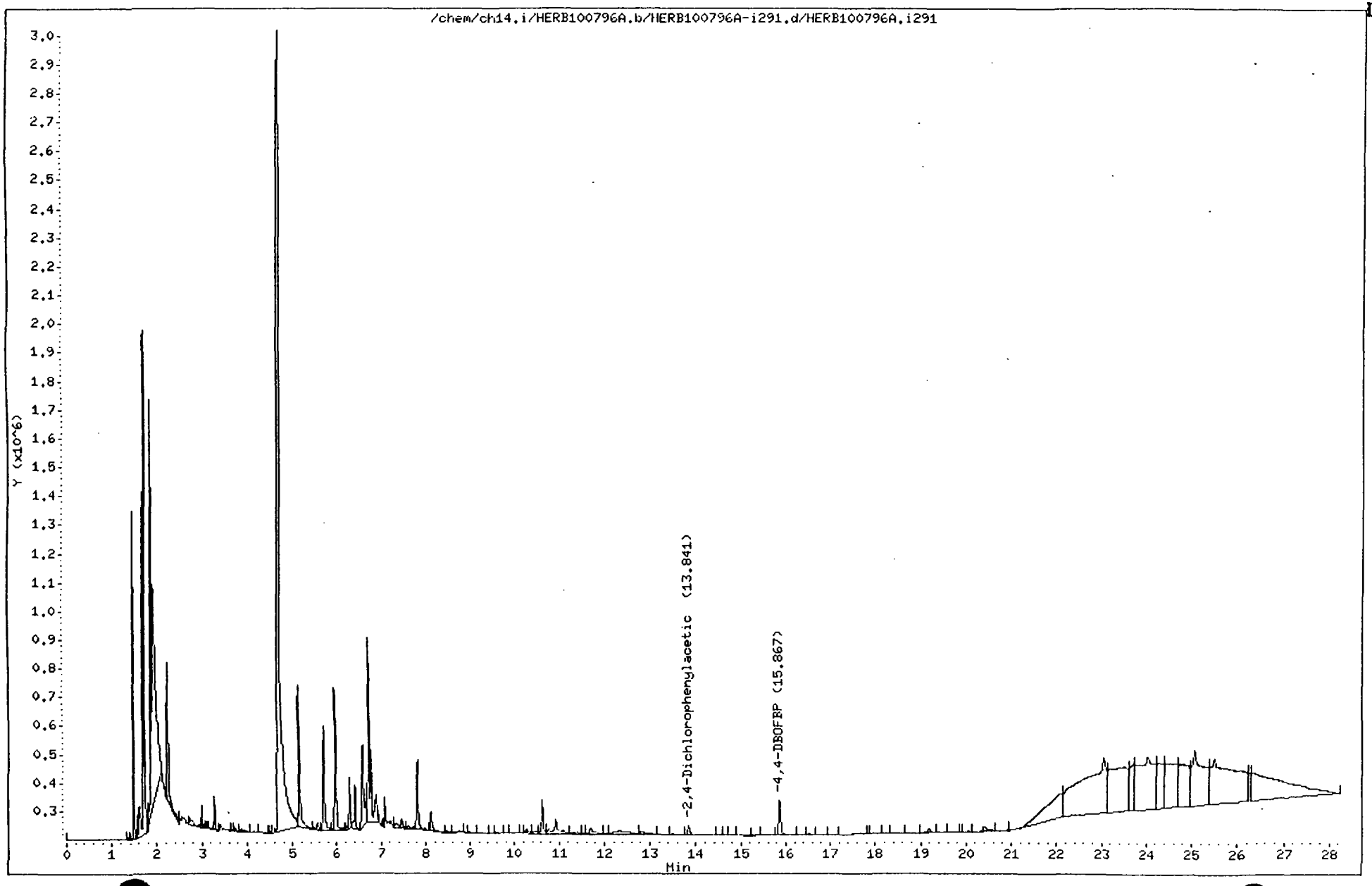
Sample Info: BLANK 1000/10 8150 AB879-89 9-29-96

Volume Injected (uL): 0.5

Operator: MAKOWALSKI

Column phase: DB-1701

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100796A.b\HERB100796A-i291.d
Lab Smp Id: BLK Client Smp ID: BLK
Inj Date : 08-OCT-96 14:34:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : BLANK 1000/10 8150 AB879-89 9-29-96
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100796A.b\13herb0930.m
Meth Date : 06-Nov-96 18:21:37 Quant Type: ISTD
Cal Date : 08-OCT-96 02:37:00 Cal File: HERB100796A.i091
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ATKLIST.sub
Target Version: 3.21
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

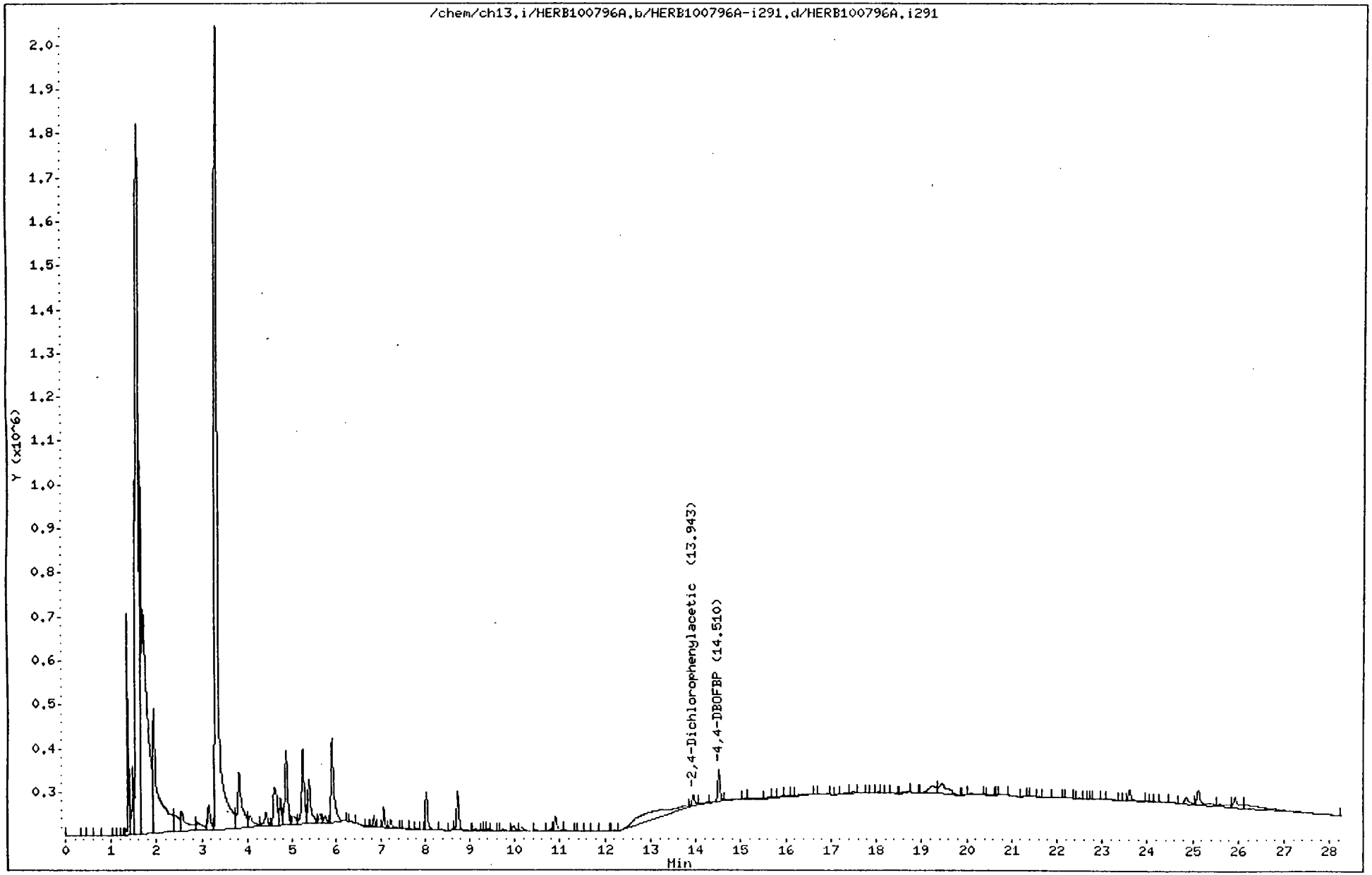
Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 2 2,4-Dichlorophenylacetic acid	13.943	13.934	(0.961)	113694	0.194	3.87(aM)
8 2,4-D	16.146	16.217	(1.113)	11768	0.0161	0.323(aM)
10 2,4,5-TP Silvex	17.481	17.472	(1.205)	34992	0.00893	0.179(a)
11 2,4,5-T	18.376	18.456	(1.266)	15765	0.00452	0.0903(a)
9 Pentachlorophenol	16.922	16.931	(1.161)	14620	0.00208	0.0416(M)
* 7 4,4-DBOFBP	14.510	14.524	(1.000)	275669	1.00	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /chem/ch13.i/HERB100796A.b/HERB100796A-i291.d
Date : 08-OCT-96 14:34:00
Client ID: BLK
Sample Info: BLANK 1000/10 8150 AB879-89 9-29-96
Volume Injected (uL): 0.5
Column phase: DB-608

Instrument: ch13.i
Operator: MAKOWALSKI
Column diameter: 0.53



FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

AT Kearney SAMPLE NO.

BLKBS

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: HERB100196-I081

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/96

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/01/96

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	5.34	
93-72-1	2,4,5-TP Silvex	0.452	
93-76-5	2,4,5-T	0.495	

Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100196.b\HERB100196-i081.d
Lab Smp Id: BLKBS Client Smp ID: BLKBS
Inj Date : 01-OCT-96 14:14:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : BS 1000/10 8150 AB879-89 9-27-96
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100196.b\14herb0930.m
Meth Date : 29-Oct-96 15:38:25 Quant Type: ISTD
Cal Date : 01-OCT-96 01:00:00 Cal File: HERB093096A-i131.d
Als bottle: 1 QC Sample: BS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	1 Dalapon	4.535	4.526	(0.286)	420584	0.394	7.88
$	2 2,4-Dichlorophenylacetic acid	13.828	13.819	(0.871)	158400	0.268	5.35(a)
	3 Dicamba	14.178	14.173	(0.894)	68935	0.0249	0.498
	4 MCPP	14.510	14.506	(0.915)	110043	23.9	478
	5 MCPA	15.047	15.042	(0.948)	126155	25.5	510
	6 Dichlorprop	15.632	15.628	(0.985)	224852	0.284	5.67(M)
	7 2,4-D	16.337	16.332	(1.030)	211307	0.267	5.34
*	8 4,4-DBOFBP	15.867	15.862	(1.000)	358483	1.00	(M)
	10 2,4,5-TP Silvex	17.636	17.631	(1.111)	112483	0.0226	0.452(M)
	11 2,4,5-T	18.456	18.465	(1.163)	108702	0.0247	0.495(M)
	12 2,4-DB	19.294	19.307	(1.216)	94210	0.220	4.40
	13 Dinoseb	20.220	20.207	(1.274)	1096	0.000370	0.00740(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /chem/ch14.i/HERB100196.b/HERB100196-i081.d

Date : 01-OCT-96 14:14:00

Client ID: BLKBS

Instrument: ch14.i

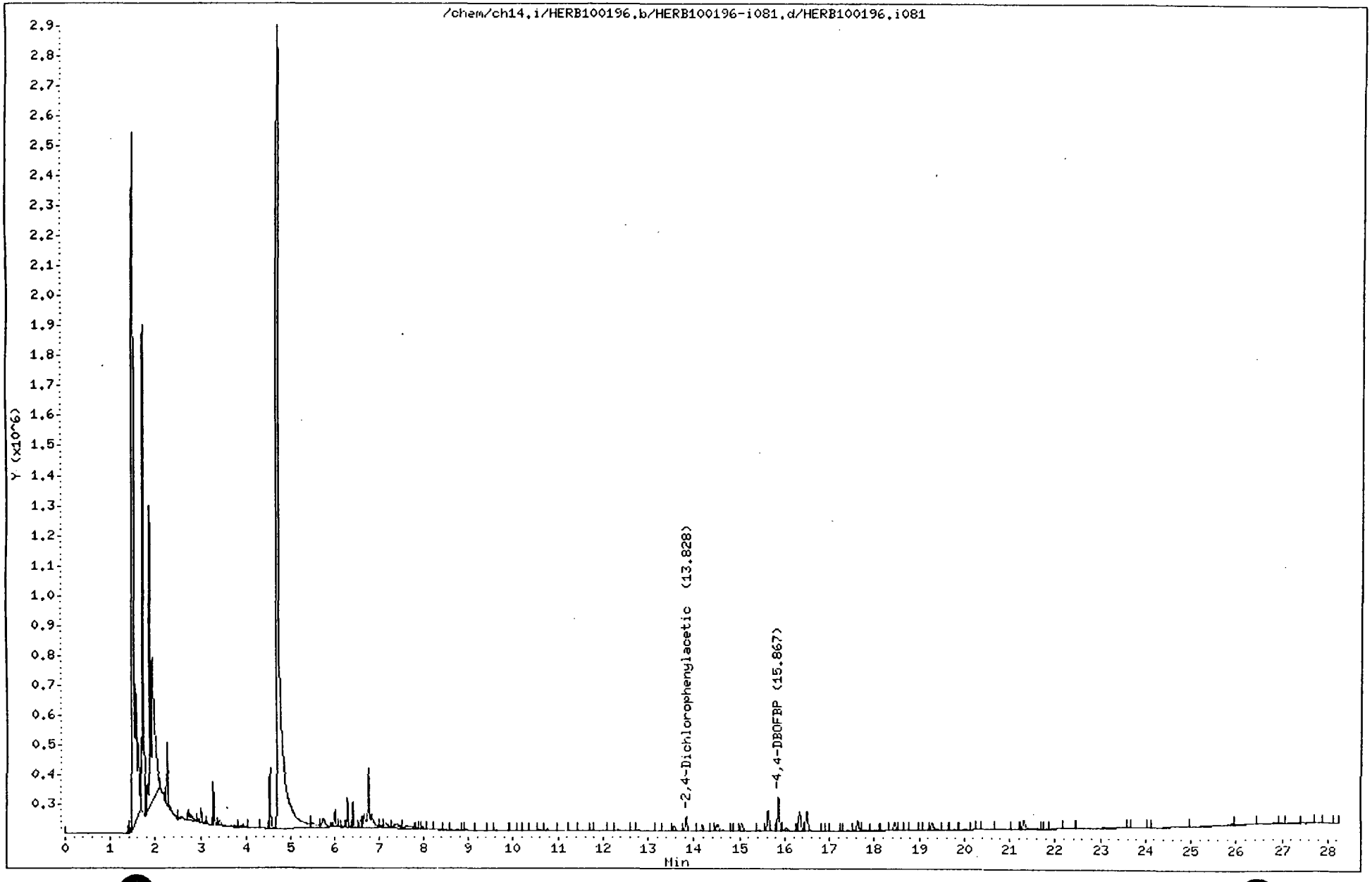
Sample Info: BS 1000/10 8150 AB879-89 9-27-96

Volume Injected (uL): 0.5

Operator: MAKOWALSKI

Column phase: DB-1701

Column diameter: 0.53



Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100196.b\HERB100196-i081.d
Lab Smp Id: BLKBS Client Smp ID: BLKBS
Inj Date : 01-OCT-96 14:14:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : BS 1000/10 8150 AB879-89 9-27-96
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100196.b\13herb0930.m
Meth Date : 06-Nov-96 17:57:20 Quant Type: ISTD
Cal Date : 01-OCT-96 01:00:00 Cal File: HERB093096A-i131.d
Als bottle: 1 QC Sample: BS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	1 Dalapon	4.243	4.247	(0.293)	352593	0.444	8.88
$	2 2,4-Dichlorophenylacetic acid	13.925	13.934	(0.960)	140286	0.229	4.58(a)
	3 Dicamba	14.391	14.431	(0.992)	54199	0.0233	0.465
	4 MCPP	14.284	14.289	(0.985)	72608	22.0	439
	5 MCPA	14.949	14.958	(1.031)	105417	19.6	392
	6 Dichlorprop	15.455	15.468	(1.066)	205474	0.280	5.59
*	7 4,4-DBOFBP	14.501	14.506	(1.000)	287582	1.00	
	8 2,4-D	16.266	16.217	(1.122)	219180	0.288	5.76(R)
	10 2,4,5-TP Silvex	17.454	17.472	(1.204)	84503	0.0207	0.414
	11 2,4,5-T	18.381	18.456	(1.268)	102659	0.0282	0.564(R)
	12 2,4-DB	19.139	19.179	(1.320)	77843	0.185	3.70

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /chem/ch13.i/HERB100196.b/HERB100196-i081.d

Page 3

Date : 01-OCT-96 14:14:00

Client ID: BLKBS

Instrument: ch13.i

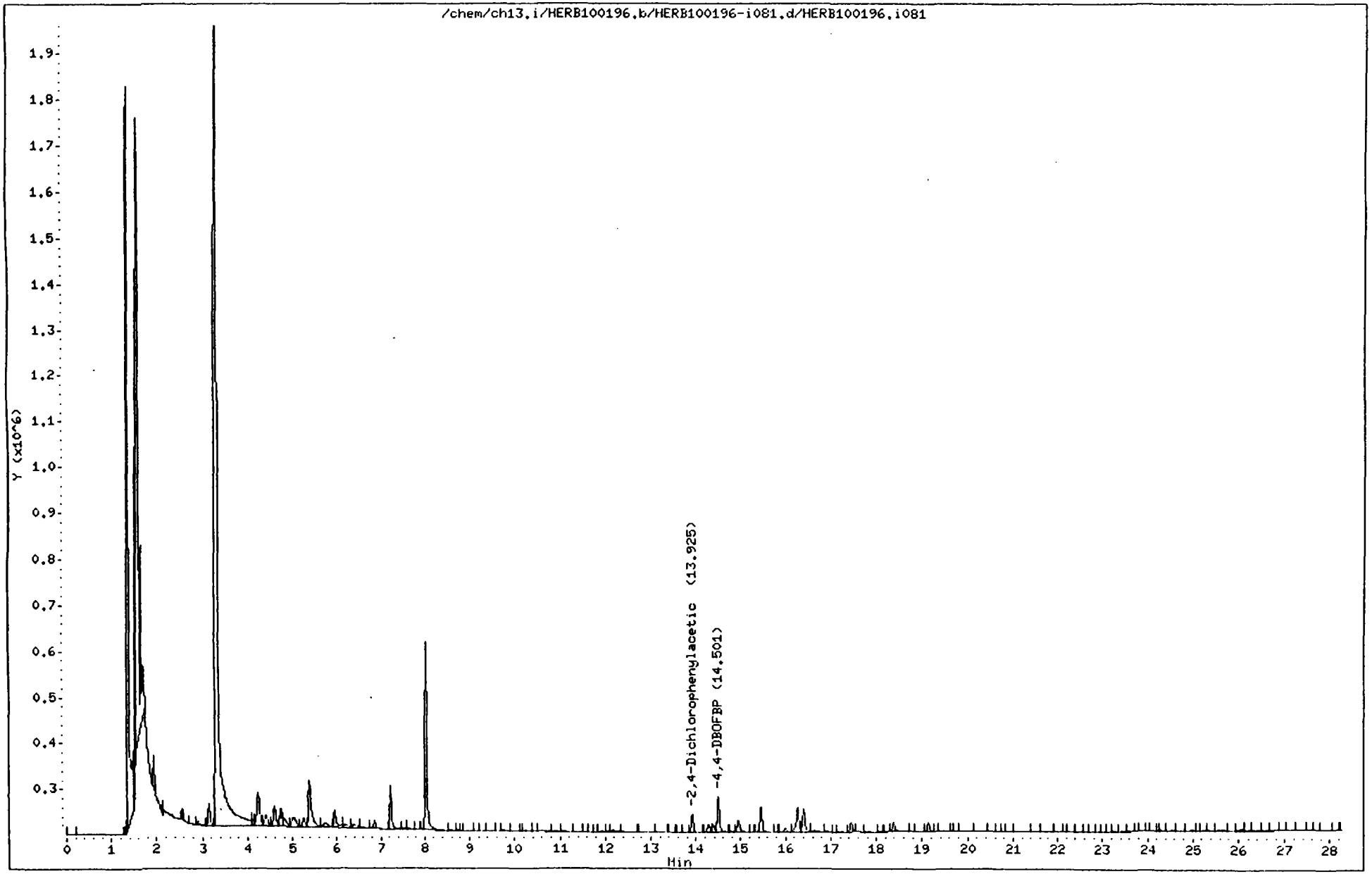
Sample Info: BS 1000/10 8150 AB879-89 9-27-96

Volume Injected (uL): 0.5

Operator: MAKOWALSKI

Column phase: DB-608

Column diameter: 0.53



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FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

AT Kearney SAMPLE NO.

BLKBSD

Lab Name: INCHCAPE TESTING SERVICES Contract: 1260-4

Lab Code: ITS-DALLAS Case No.: SAS No.: SDG No.: HERB10809

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: HERB100196-I091

Level: (low/med) LOW Date Received: 09/27/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/96

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/01/96

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	5.44	
93-72-1	2,4,5-TP Silvex	0.440	
93-76-5	2,4,5-T	0.495	

Thru-Put Systems, Inc.

Data file : \chem\ch14.i\HERB100196.b\HERB100196-i091.d
Lab Smp Id: BLKBSD Client Smp ID: BLKBSD
Inj Date : 01-OCT-96 14:49:00
Operator : MAKOWALSKI Inst ID: ch14.i
Smp Info : BSD 1000/10 8150 AB879-89 9-27-96
Misc Info :
Comment :
Method : \chem\ch14.i\HERB100196.b\14herb0930.m
Meth Date : 29-Oct-96 15:38:25 Quant Type: ISTD
Cal Date : 01-OCT-96 01:00:00 Cal File: HERB093096A-i131.d
Als bottle: 1 QC Sample: BSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: herbistd.sub
Target Version: 3.21
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

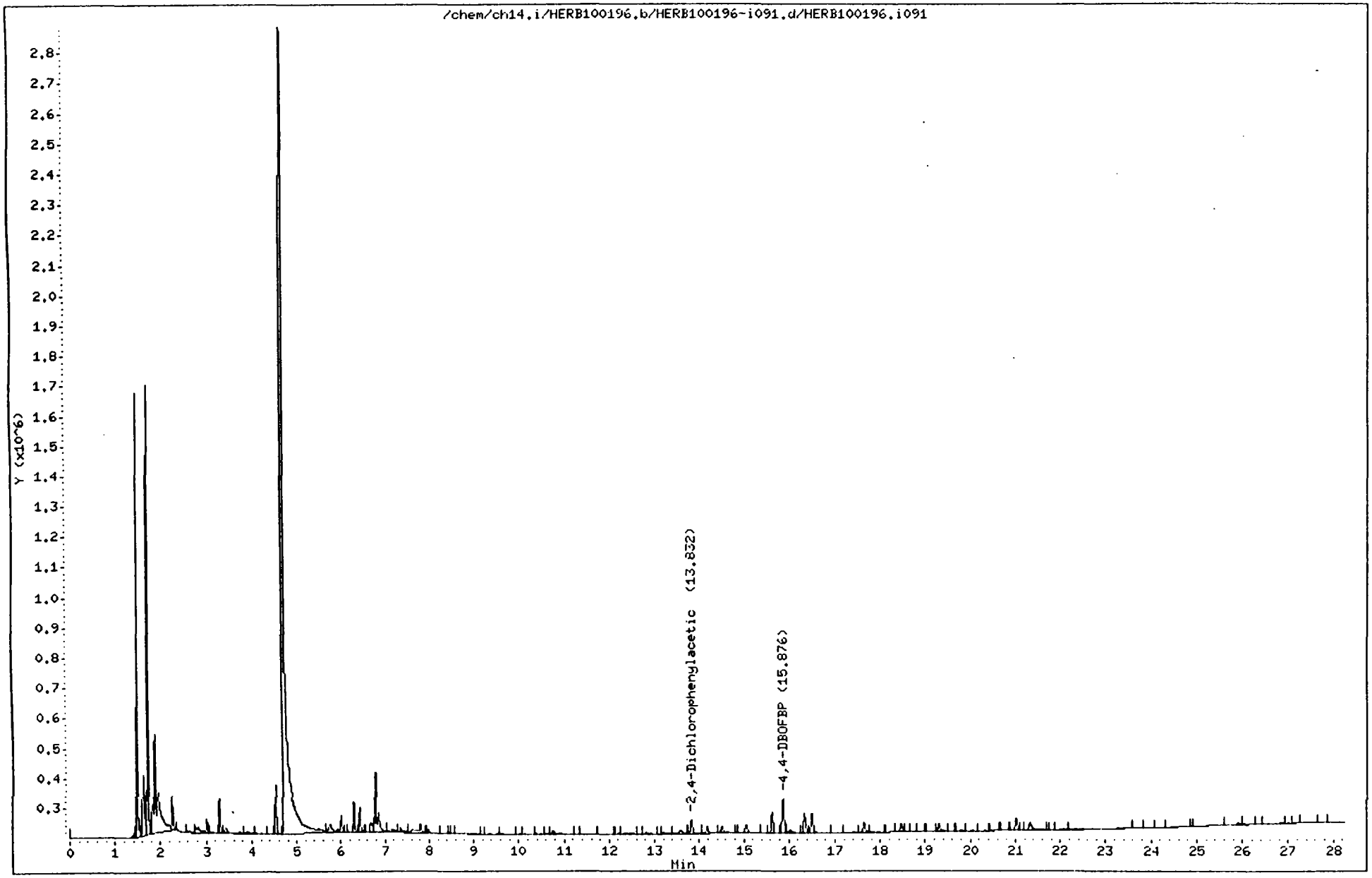
	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	1 Dalapon	4.540	4.526	(0.286)	345151	0.316	6.32
$	2 2,4-Dichlorophenylacetic acid	13.832	13.819	(0.871)	157589	0.260	5.20(a)
	3 Dicamba	14.182	14.173	(0.893)	72515	0.0256	0.512
	4 MCPP	14.519	14.506	(0.915)	112297	23.8	476
	5 MCPA	15.051	15.042	(0.948)	126394	24.7	494
	6 Dichlorprop	15.636	15.628	(0.985)	229677	0.283	5.66
	7 2,4-D	16.341	16.332	(1.029)	220251	0.272	5.44
*	8 4,4-DBOFBP	15.876	15.862	(1.000)	366788	1.00	
	10 2,4,5-TP Silvex	17.640	17.631	(1.111)	111850	0.0220	0.440
	11 2,4,5-T	18.460	18.465	(1.163)	111268	0.0248	0.495(M)
	12 2,4-DB	19.298	19.307	(1.216)	103326	0.236	4.72
	13 Dinoseb	20.327	20.207	(1.280)	2985	0.000985	0.0197(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /chem/ch14.i/HERB100196.b/HERB100196-i091.d
Date : 01-OCT-96 14:49:00
Client ID: BLKBSD
Sample Info: BSD 1000/10 8150 AB879-89 9-27-96
Volume Injected (uL): 0.5
Column phase: DB-1701

Instrument: ch14.i
Operator: MAKOWALSKI
Column diameter: 0.53



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Thru-Put Systems, Inc.

Data file : \chem\ch13.i\HERB100196.b\HERB100196-i091.d
Lab Smp Id: BLKBSD Client Smp ID: BLKBSD
Inj Date : 01-OCT-96 14:49:00
Operator : MAKOWALSKI Inst ID: ch13.i
Smp Info : BSD 1000/10 8150 AB879-89 9-27-96
Misc Info :
Comment :
Method : \chem\ch13.i\HERB100196.b\13herb0930.m
Meth Date : 06-Nov-96 17:57:20 Quant Type: ISTD
Cal Date : 01-OCT-96 01:00:00 Cal File: HERB093096A-i131.d
Als bottle: 1 QC Sample: BSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: HERBISTD.sub
Target Version: 3.21
Processing Host: GC1

Concentration Formula: Uf * Vt/(Vo * Vi)

Name	Value	Description
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.500	Volume injected (uL)

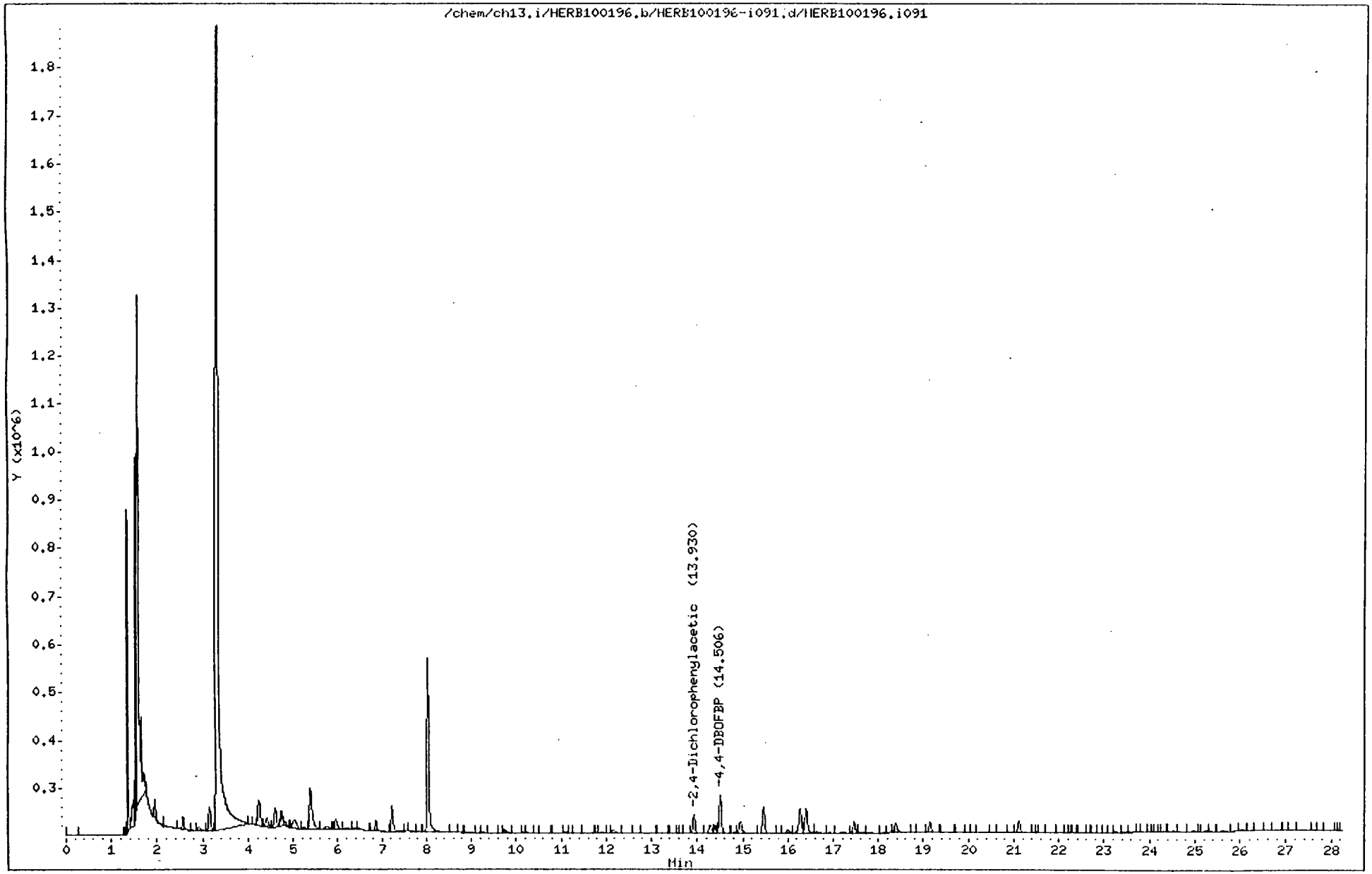
	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	1 Dalapon	4.247	4.247	(0.293)	218947	0.271	5.42
$	2 2,4-Dichlorophenylacetic acid	13.930	13.934	(0.960)	136592	0.219	4.39(a)
	3 Dicamba	14.391	14.431	(0.992)	55119	0.0233	0.465
	4 MCPP	14.284	14.289	(0.985)	73609	21.9	437
	5 MCPA	14.949	14.958	(1.031)	109392	20.4	407
	6 Dichlorprop	15.459	15.468	(1.066)	209668	0.281	5.61
*	7 4,4-DBOFBP	14.506	14.506	(1.000)	292439	1.00	
	8 2,4-D	16.270	16.217	(1.122)	218560	0.282	5.65(R)
	10 2,4,5-TP Silvex	17.458	17.472	(1.204)	87629	0.0211	0.422
	11 2,4,5-T	18.385	18.456	(1.267)	105811	0.0286	0.572(R)
	12 2,4-DB	19.143	19.179	(1.320)	92746	0.217	4.33

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /chem/ch13.i/HERB100196.b/HERB100196-i091.d
Date : 01-OCT-96 14:49:00
Client ID: BLKBSD
Sample Info: BSD 1000/10 8150 AB879-89 9-27-96
Volume Injected (uL): 0.5
Column phase: DB-608

Instrument: ch13.i
Operator: MAKOWALSKI
Column diameter: 0.53



PREPARATION AND ANALYSIS LOGS

BATCH: 18879.89

DATE STARTED: 9.29.96/1200

Method 8150A / 615 for Chlorinated Herbicides in Water (8150 / 615)

ITS Environmental, Dallas, Tx (214)238-5591

Sample I.D.:	RE-EXTRACT?	CLIENT I.D.:	TCLP?	sample volume 1.0 L	sample pH	1.0 ml surrogate Lot #	1.0 ml spike Lot #	pH <2 w/ 1:1 H2SO4	150 ml ethyl ether 1st 50 mL 2&3shake lot #	shake 3 X 2min	15 mL H2O, 2 mL 30% KO	Hydrolysis 1 hr. @60C	3 x 20 mL ether - discard	pH <2 w/1:1 H2SO4	3 x 20 mL ether - collect	Dry w/Na2SO4 >2 hours	conc. to ~4ml in K-D (90-100 C)	Transfer to 12 mL vial	N2 evap. to <1 mL	Add ~2 mL diazomethane leave >10 minutes	N2 conc to ~ 1mL	final volume 10 ml	notes/comments
BIK				UB		UB		UB	UB	UB	UB	UB	UB	UB	UB	UB	LT	LT	LT	LT	LT	LT	
BS				↓		↓	UB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
BSD				↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
10759-2		Field QC# & BI#(0-8')		↓		↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
10809-3		MW502 & MW2		↓		↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
10505-3	✓	MW502 BI#(0-8')		↓		↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

LT

7 of 4

reprepped out of holding time

Date/Time Completed: 9-30-96 / 173

APPROVAL:

[093096] 13 HERB093096A Page 1
Reported on 18-OCT-1996 at 15:44

ANALYSIS SUMMARY

Method..... HERB8150 Run Sequence HERB8150
Calibration..... HERB0930 Control.....

Calib. Sequence.. Sequential Standard

Lims Analysis ID. Analyst Name MAKOWALSKI
Comment..... HP 5890 SERIES II, DUAL ECD, SERIAL #: 3203A41769

	SAMPLE NAME	SAMPLE ID	TYPE	NUM INJ	CAL LEVEL	RF UP 1st -->
1	INST BLANK - 50/50		SA	1		
2	INST BLANK - 50/50		SA	1		
3	INST BLANK - 50/50		SA	1		
4	INST BLANK - 50/50		SA	1		
5	HERBICIDE CAL STD - L1	#AA904-68-2	ST	1	L1	I
6	HERBICIDE CAL STD - L2	#AA904-68-2	ST	1	L2	I
7	HERBICIDE CAL STD - L3	#AA904-68-2	ST	1	L3	I
8	HERBICIDE CAL STD - L4	#AA904-71-6	ST	1	L4	I
9	HERBICIDE CAL STD - L5	#AA904-79-3	ST	1	L5	I
10	HERBICIDE CAL STD - L6	#AA904-68-2	ST	1	L6	I
11	HERBICIDE CAL STD - L7	#AA904-68-2	ST	1	L7	I
12	HERBICIDE CAL STD - L8	#AA904-68-2	ST	1	L8	I
13	HERBICIDE CAL STD - L9	#AA904-68-2	ST	1	L9	I
14	INST BLANK - HEXANE/ACETONE		SA	1		
15	HERBICIDE CAL STD - L5	#AA904-79-3	SA	1		
16	BLANK 1000/10 8150	AB879-64 9-25-96	SA	1		
17	BS 1000/10 8150	AB879-64 9-25-96	SA	1		
18	BSD 1000/10 8150	AB879-64 9-25-96	SA	1		
19	10606-1MS 500/10 8150	AB879-64 9-25-96	SA	1		
20	10606-1MSD 500/10 8150	AB879-64 9-25-96	SA	1		
21	10606-1 1000/10 8150	AB879-64 9-25-96	SA	1		
22	10606-2 1000/10 8150	AB879-64 9-25-96	SA	1		
23	10610-2 1000/10 8150	AB879-64 9-25-96	SA	1		
24	10610-3 1000/10 8150	AB879-64 9-25-96	SA	1		
25	10610-4 1000/10 8150	AB879-64 9-25-96	SA	1		
26	HERBICIDE CAL STD - L5	#AA904-79-3	SA	1		
27	10610-5 1000/10 8150	AB879-64 9-25-96	SA	1		
28	10610-6 1000/10 8150	AB879-64 9-25-96	SA	1		

10-18-96

10-18-96

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Read and Understood By

Signed 10-18-96 Date Signed 10-18-96 Date

[093096] 13 HERB100196
Reported on 18-OCT-1996 at 15:44

ANALYSIS SUMMARY

Method..... HERB8150 Run Sequence HERB8150
Calibration..... HERB0930 Control.....

Calib. Sequence.. Sequential Standard

Lims Analysis ID. Analyst Name MAKOWALSKI
Comment..... HP 5890 SERIES II, DUAL ECD, SERIAL #: 3203A41769

	SAMPLE NAME	SAMPLE ID	TYPE	NUM INJ	CAL LEVEL	RF UP 1st -->
1	INST BLANK - 50/50		SA	1		
2	INST BLANK - 50/50		SA	1		
3	INST BLANK - 50/50		SA	1		
4	HERBICIDE CAL STD - L5 #AA904-79-3		SA	1		
5	BLANK 1000/10 8150 AB879-89 9-27-96		SA	1		
6	HERBICIDE CAL STD - L5 #AA904-79-3		SA	1		
7	BLANK 1000/10 8150 AB879-89 9-27-96		SA	1		
8	BS 1000/10 8150 AB879-89 9-27-96		SA	1		
9	BSD 1000/10 8150 AB879-89 9-27-96		SA	1		
10	10505-3RE 1000/10 8150 AB879-89 9-27-96		SA	1		
11	BLANK 1000/10 8150 AB879-64 9-25-96		SA	1		
12	BS 1000/10 8150 AB879-64 9-25-96		SA	1		
13	BSD 1000/10 8150 AB879-64 9-25-96		SA	1		
14	10606-1MS 500/10 8150 AB879-64 9-25-96		SA	1		
15	10606-1MSD 500/10 8150 AB879-64 9-25-96		SA	1		
16	10606-1 1000/10 8150 AB879-64 9-25-96		SA	1		
17	HERBICIDE CAL STD - L5 #AA904-79-3		SA	1		
18	10606-2 1000/10 8150 AB879-64 9-25-96		SA	1		
19	10610-2 1000/10 8150 AB879-64 9-25-96		SA	1		
20	10610-3 1000/10 8150 AB879-64 9-25-96		SA	1		
21	10610-4 1000/10 8150 AB879-64 9-25-96		SA	1		
22	10610-5 1000/10 8150 AB879-64 9-25-96		SA	1		
23	10610-6 1000/10 8150 AB879-64 9-25-96		SA	1		
24	10610-7 1000/10 8150 AB879-64 9-25-96		SA	1		
25	10663-2 1000/10 8150 AB879-64 9-25-96		SA	1		
26	10663-4 1000/10 8150 AB879-64 9-25-96		SA	1		
27	BLANK 1000/10 8151 AB879-41 9-23-96		SA	1		
28	HERBICIDE CAL STD - L5 #AA904-79-3		SA	1		
29	BS 1000/10 8151 AB879-41 9-23-96		SA	1		
30	BSD 1000/10 8151 AB879-41 9-23-96		SA	1		
31	10528-3MS 500/10 8151 AB879-41 9-23-96		SA	1		
32	10528-3MSD 500/10 8151 AB879-41 9-23-96		SA	1		
33	10528-3 1000/10 8151 AB879-41 9-23-96		SA	1		
34	10528-5 1000/10 8151 AB879-41 9-23-96		SA	1		
35	10492-1 1000/10 8151 AB879-41 9-23-96		SA	1		
36	10370-1 100/10 TCLP AB879-41 9-23-96		SA	1		
37	BLANK 30/10 8151 AB879-46 9-23-96		SA	1		
38	BS 30/10 8151 AB879-46 9-23-96		SA	1		
39	HERBICIDE CAL STD - L5 #AA904-79-3		SA	1		
40	10528-1MS 30/10 8151 AB879-46 9-23-96		SA	1		
41	10528-1MSD 30/10 8151 AB879-46 9-23-96		SA	1		
42	10528-1 30/10 8151 AB879-46 9-23-96		SA	1		
43	10528-2 30/10 8151 AB879-46 9-23-96		SA	1		
44	10492-2 30/10 8151 AB879-46 9-23-96		SA	1		
45	10492-3 30/10 8151 AB879-46 9-23-96		SA	1		
46	HERBICIDE CAL STD - L5 #AA904-79-3		SA	1		

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Read and Understood By

Signed 10-18-96 Date Signed 10-18-96 Date

[100796] 13 HERB100796A
Reported on 18-OCT-1996 at 15:45

Page 1

ANALYSIS SUMMARY

Method..... HERB8150 Run Sequence 8150HERB
Calibration..... HERB0930 Control.....

Calib. Sequence.. Sequential Standard

Lims Analysis ID. Analyst Name MAKOWALSKI
Comment..... VARIAN STAR 3400, DUAL ECD, SERIAL #: 3400-15250

	SAMPLE NAME	SAMPLE ID	TYPE	NUM INJ	CAL LEVEL	RF UP 1st -->
1	INST BLANK - HEXANE/ACETONE		SA	1		
2	INST BLANK - HEXANE/ACETONE		SA	1		
3	PENTACHLR. CAL STD - L1 #AA904-80-1		ST	1	L1	I
4	PENTACHLR. CAL STD - L2 #AA904-80-1		ST	1	L2	I
5	PENTACHLR. CAL STD - L3 #AA904-80-1		ST	1	L3	I
6	PENTACHLR. CAL STD - L4 #AA904-80-1		ST	1	L4	I
7	PENTACHLR. CAL STD - L5 #AA904-80-1		ST	1	L5	I
8	PENTACHLR. CAL STD - L6 #AA904-80-1		ST	1	L6	I
9	PENTACHLR. CAL STD - L7 #AA904-80-1		ST	1	L7	I
10	INST BLANK - HEXANE/ACETONE		SA	1		
11	HERBICIDE CAL STD - L5 #AA904-79-3		SA	1		
12	PENTACHLR. CAL STD - L4 #AA904-80-1		SA	1		
13	BLANK 1000/10 8150	AB879-89 9-29-96	SA	1		
14	10759-2 1000/10 8150	AB879-89 9-29-96	SA	1		
15	10809-3 1000/10 8150	AB879-89 9-29-96	SA	1		
16	BLANK 1000/10 8150	AB902-28 10-4-96	SA	1		
17	BS 1000/10 8150	AB902-28 10-4-96	SA	1		
18	BSD 1000/10 8150	AB902-28 10-4-96	SA	1		
19	10754-1MS 100/10 TCLP	AB902-28 10-4-96	SA	1		
20	10754-1MSD 100/10 TCLP	AB902-28 10-4-96	SA	1		
21	HERBICIDE CAL STD - L5 #AA904-79-3		SA	1		
22	PENTACHL. CAL STD - L4 #AA904-80-1		SA	1		
23	10754-1RE 100/10 TCLP	AB902-28 10-4-96	SA	1		
24	10754-2RE 100/10 TCLP	AB902-28 10-4-96	SA	1		
25	10754-3RE 100/10 TCLP	AB902-28 10-4-96	SA	1		
26	10971-1 100/10 TCLP	AB902-28 10-4-96	SA	1		
27	10971-2 100/10 TCLP	AB902-28 10-4-96	SA	1		
28	10977-1 1000/10 8150	AB902-28 10-4-96	SA	1		
29	BLANK 1000/10 8150	AB879-89 9-29-96	SA	1		
30	10759-2 1000/10 8150	AB879-89 9-29-96	SA	1		
31	10809-3 1000/10 8150	AB879-89 9-29-96	SA	1		
32	HERBICIDE CAL STD - L5 #AA904-79-3		SA	1		
33	PENTACHL. CAL STD - L4 #AA904-80-1		SA	1		

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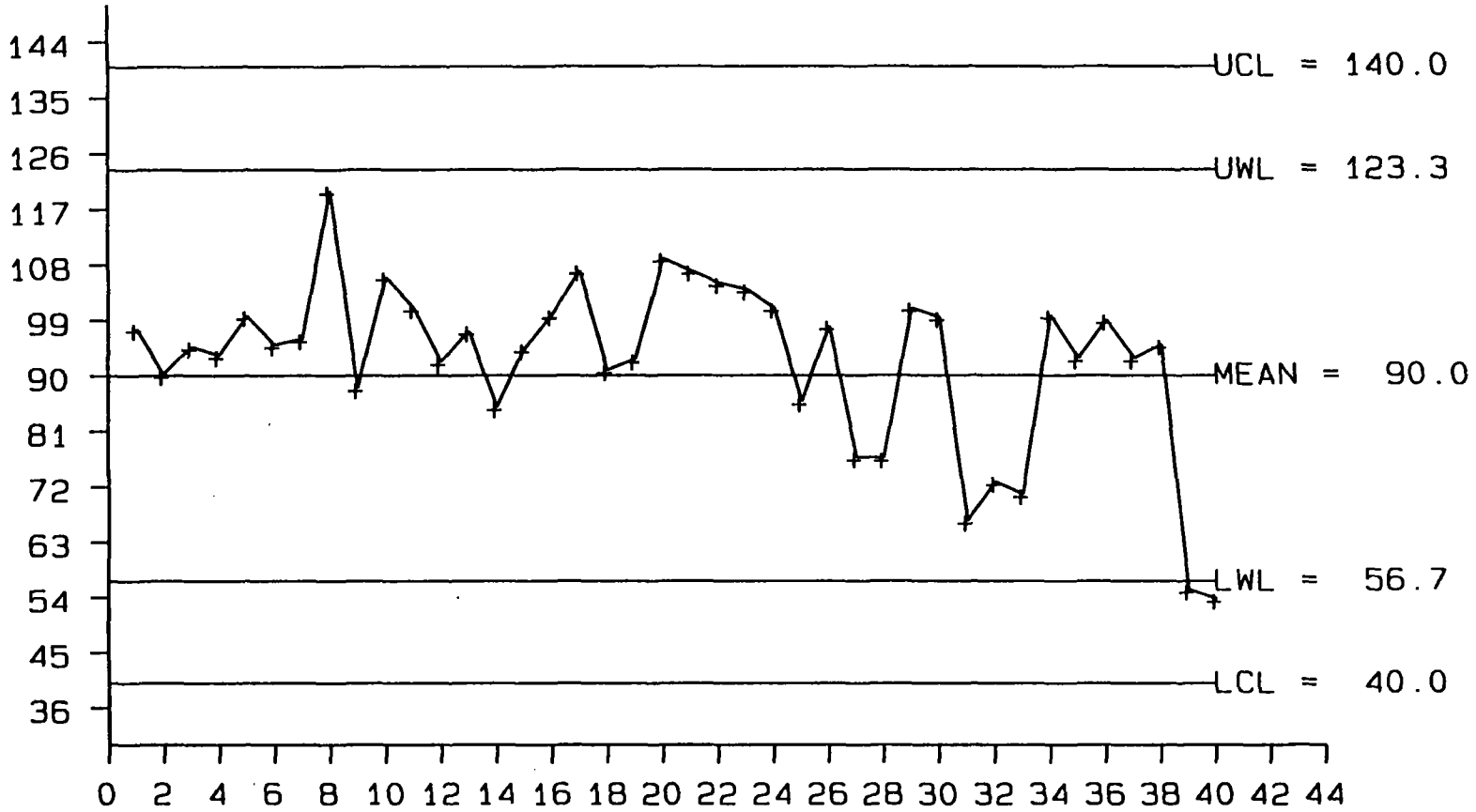
Read and Understood By

10-18-96 10-18-96

CONTROL CHARTS

8150_L 2, 4-D (LCS RECOVERY)
Produced by A_HUMASO on 28-OCT-1996 15: 00: 33.49



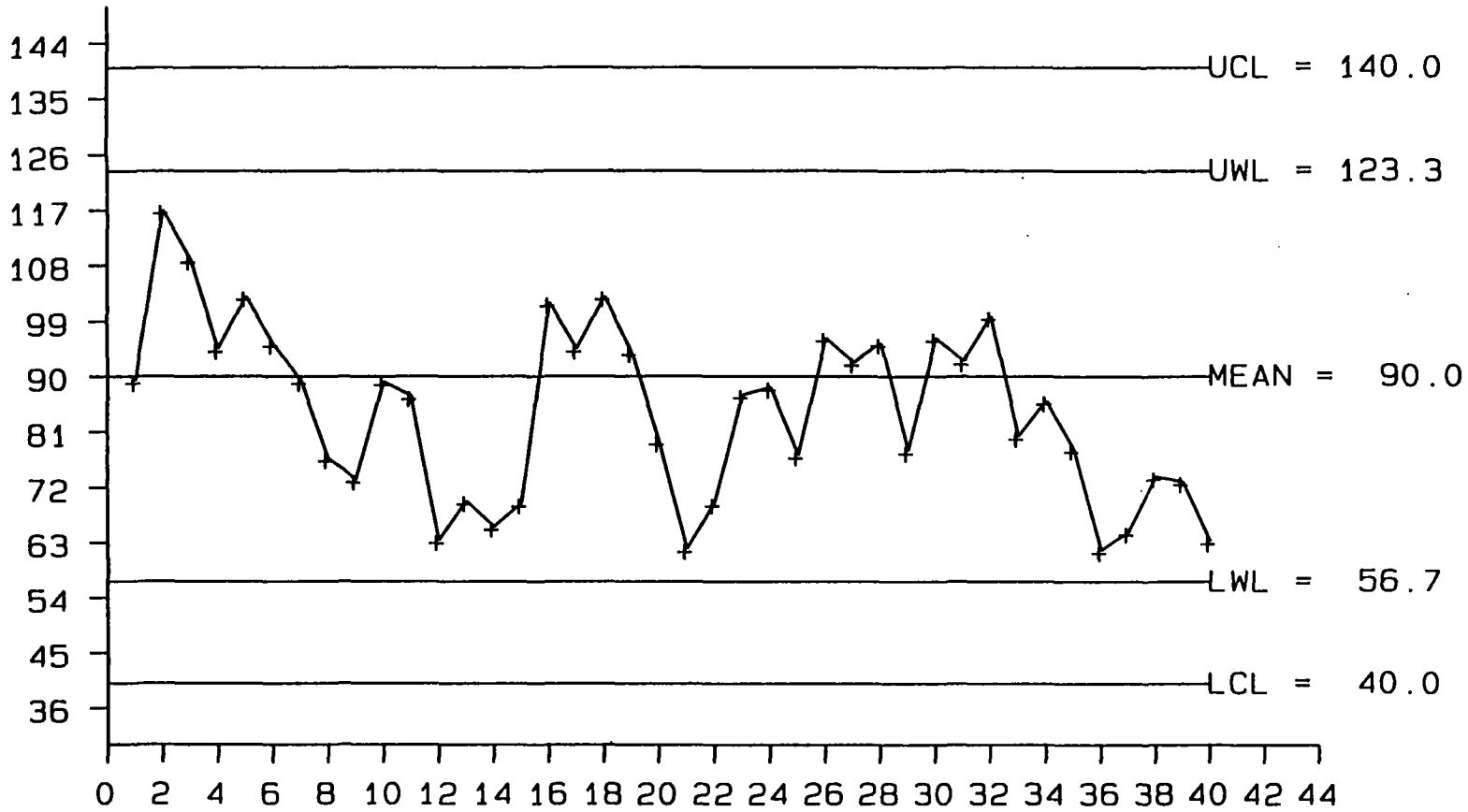
Inchcape Testing Services
Environmental Laboratories

Data Points for: 8150_L 2,4-D
Chart Type: LCS RECOVERY
Generated on: 28-OCT-1996 14:45

Current Control Limits
(40.0 - 140.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB649-78	18-JAN-1996 0	97.7
2	AB671-6	1-FEB-1996 0	90.2
3	AB671-28	6-FEB-1996 0	94.7
4	AB671-40	7-FEB-1996 0	93.3
5	AB671-70	14-FEB-1996 0	99.7
6	AB671-71	14-FEB-1996 0	95.0
7	AB672-18	18-FEB-1996 0	96.0
8	AB672-46	20-FEB-1996 0	120
9	AB673-13	24-FEB-1996 0	88.0
10	AB673-41	29-FEB-1996 0	106
11	AB673-78	8-MAR-1996 0	101
12	AB711-3	14-MAR-1996 0	92.2
13	AB711-74	22-MAR-1996 0	97.2
14	AB711-74A	27-MAR-1996 0	84.9
15	AB711-33	28-MAR-1996 0	94.3
16	AB714-87	23-APR-1996 0	99.8
17	AB715-83	3-MAY-1996 0	107
18	AB764-22	9-MAY-1996 0	90.9
19	AB764-78	14-MAY-1996 0	92.6
20	AB765-69	24-MAY-1996 0	109
21	AB766-48	7-JUN-1996 0	107
22	AB790-96	7-JUL-1996 0	105
23	AB815-66A	16-JUL-1996 0	104
24	AB816-4	18-JUL-1996 0	101
25	AB816-83	24-JUL-1996 0	85.8
26	AB846-17	2-AUG-1996 0	98.0
27	AB846-56	8-AUG-1996 0	76.8
28	AB846-73	8-AUG-1996 0	76.7
29	AB847-12	18-AUG-1996 0	101
30	AB848-46	30-AUG-1996 0	99.5
31	AB878-78	17-SEP-1996 0	66.5
32	AB878-85	19-SEP-1996 0	72.8
33	AB879-50	27-SEP-1996 0	70.8
34	AB879-64	1-OCT-1996 0	99.8
35	AB879-81	2-OCT-1996 0	92.8
36	AB879-41	2-OCT-1996 0	99.0
37	AB902-8	7-OCT-1996 0	92.8
38	AB902-28	8-OCT-1996 0	95.0
39	AB903-3	17-OCT-1996 0	55.3
40	AB903-55	24-OCT-1996 0	53.8

8150_L 2, 4, 5-T (LCS RECOVERY)
Produced by A_HUMASO on 28-OCT-1996 15: 01: 16.77



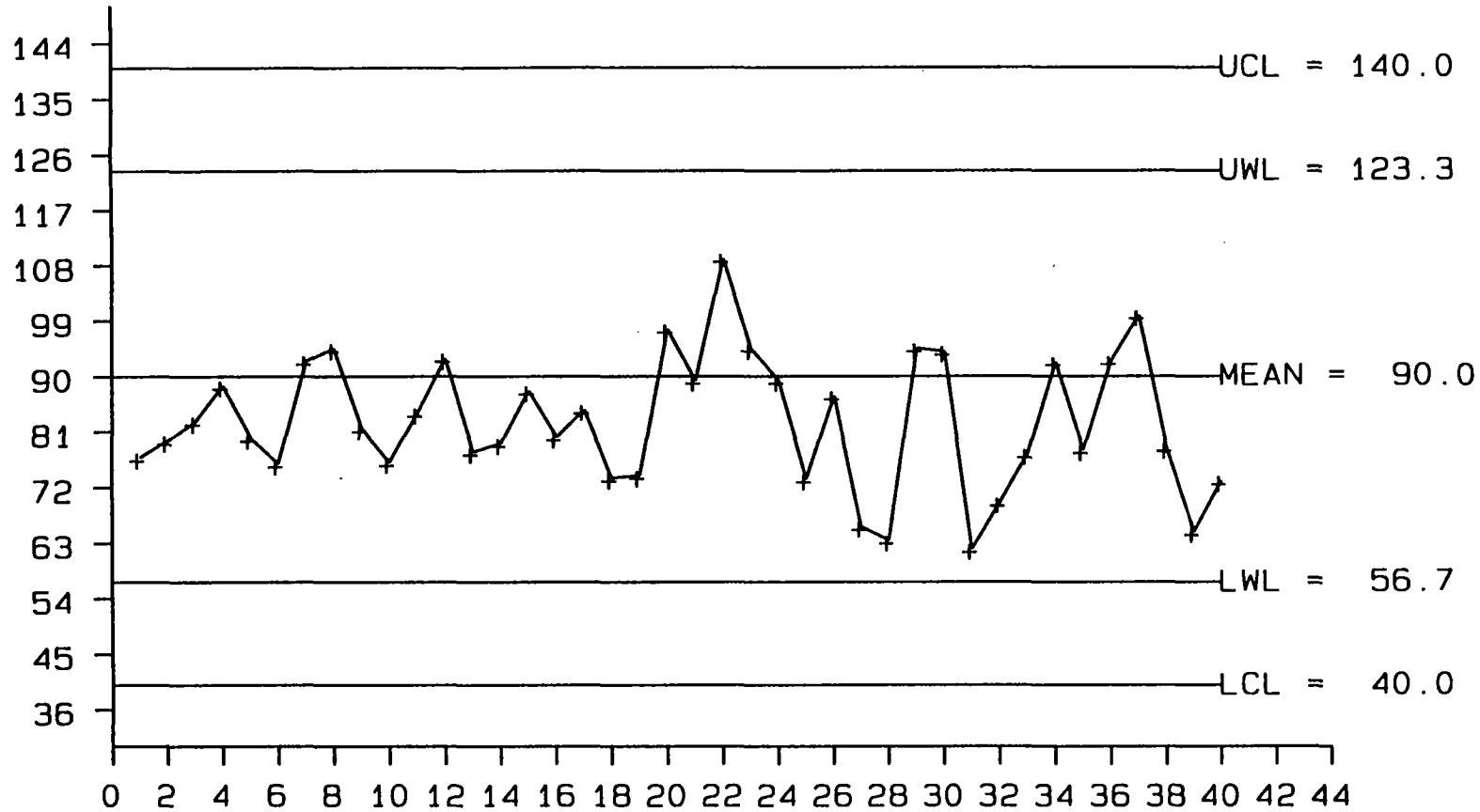
Inchcape Testing Services
Environmental Laboratories

Data Points for: 8150_L 2,4,5-T
Chart Type: LCS RECOVERY
Generated on: 28-OCT-1996 14:47

Current Control Limits
(40.0 - 140.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB766-48	7-JUN-1996 0	89.3
2	AB790-96	7-JUL-1996 0	117
3	AB790-96	7-JUL-1996 0	109
4	AB815-66A	16-JUL-1996 0	94.5
5	AB815-66A	16-JUL-1996 0	103
6	AB816-4	18-JUL-1996 0	95.4
7	AB816-4	18-JUL-1996 0	89.3
8	AB816-83	24-JUL-1996 0	76.8
9	AB816-83	24-JUL-1996 0	73.3
10	AB846-17	2-AUG-1996 0	89.1
11	AB846-17	2-AUG-1996 0	86.8
12	AB846-73	8-AUG-1996 0	63.4
13	AB846-73	8-AUG-1996 0	69.8
14	AB846-56	8-AUG-1996 0	65.6
15	AB846-56	8-AUG-1996 0	69.4
16	AB847-12	18-AUG-1996 0	102
17	AB847-12	18-AUG-1996 0	94.5
18	AB848-46	30-AUG-1996 0	103
19	AB848-46	30-AUG-1996 0	94.0
20	AB878-78	17-SEP-1996 0	79.5
21	AB878-78	17-SEP-1996 0	62.0
22	AB878-85	19-SEP-1996 0	69.5
23	AB878-85	19-SEP-1996 0	87.0
24	AB879-50	27-SEP-1996 0	88.2
25	AB879-50	27-SEP-1996 0	77.3
26	AB879-64	1-OCT-1996 0	96.3
27	AB879-64	1-OCT-1996 0	92.3
28	AB879-81	2-OCT-1996 0	95.5
29	AB879-81	2-OCT-1996 0	78.0
30	AB879-41	2-OCT-1996 0	96.3
31	AB879-41	2-OCT-1996 0	92.5
32	AB902-8	7-OCT-1996 0	99.8
33	AB902-8	7-OCT-1996 0	80.3
34	AB902-28	8-OCT-1996 0	86.0
35	AB902-28	8-OCT-1996 0	78.3
36	AB903-3	17-OCT-1996 0	61.8
37	AB903-3	17-OCT-1996 0	64.8
38	AB903-55	24-OCT-1996 0	73.8
39	AB903-55	24-OCT-1996 0	73.0
40	AB903-72	25-OCT-1996 0	63.3

8150_L 2, 4, 5-TP (LCS RECOVERY)
Produced by A_HUMASO on 28-OCT-1996 15: 01: 44.91



Inchcape Testing Services
Environmental Laboratories

Data Points for: 8150_L 2,4,5-TP
Chart Type: LCS RECOVERY
Generated on: 28-OCT-1996 14:51

Current Control Limits
(40.0 - 140.0)

Point	Batch Number	Date Analyzed	Value (%)
1	AB649-78	18-JAN-1996 0	76.8
2	AB671-6	1-FEB-1996 0	79.5
3	AB671-28	6-FEB-1996 0	82.6
4	AB671-40	7-FEB-1996 0	88.5
5	AB671-70	14-FEB-1996 0	80.0
6	AB671-71	14-FEB-1996 0	75.8
7	AB672-18	18-FEB-1996 0	92.5
8	AB672-46	20-FEB-1996 0	94.5
9	AB673-13	24-FEB-1996 0	81.5
10	AB673-41	29-FEB-1996 0	76.0
11	AB673-78	8-MAR-1996 0	84.0
12	AB711-3	14-MAR-1996 0	92.9
13	AB711-74	22-MAR-1996 0	77.7
14	AB711-74A	27-MAR-1996 0	79.1
15	AB711-33	28-MAR-1996 0	87.6
16	AB714-87	23-APR-1996 0	80.1
17	AB715-83	3-MAY-1996 0	84.5
18	AB764-22	9-MAY-1996 0	73.5
19	AB764-78	14-MAY-1996 0	73.9
20	AB765-69	24-MAY-1996 0	97.6
21	AB766-48	7-JUN-1996 0	89.3
22	AB790-96	7-JUL-1996 0	109
23	AB815-66A	16-JUL-1996 0	94.5
24	AB816-4	18-JUL-1996 0	89.3
25	AB816-83	24-JUL-1996 0	73.3
26	AB846-17	2-AUG-1996 0	86.8
27	AB846-56	8-AUG-1996 0	65.6
28	AB846-73	8-AUG-1996 0	63.4
29	AB847-12	18-AUG-1996 0	94.5
30	AB848-46	30-AUG-1996 0	94.0
31	AB878-78	17-SEP-1996 0	62.0
32	AB878-85	19-SEP-1996 0	69.5
33	AB879-50	27-SEP-1996 0	77.3
34	AB879-64	1-OCT-1996 0	92.3
35	AB879-81	2-OCT-1996 0	78.0
36	AB879-41	2-OCT-1996 0	92.5
37	AB902-8	7-OCT-1996 0	99.8
38	AB902-28	8-OCT-1996 0	78.3
39	AB903-3	17-OCT-1996 0	64.8
40	AB903-55	24-OCT-1996 0	73.0

GENERAL CHEMISTRY PARAMETERS

SAMPLE DATA

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 27-SEP-1996

REPORT NUMBER : D96-10809-1
REPORT DATE : 31-OCT-1996

SAMPLE SUBMITTED BY : AT Kearney, Inc.
ADDRESS : Third Floor, One Wall Street Court
: New York, NY 10005
ATTENTION : Ms. Julie Shanahan

SAMPLE MATRIX : Liquid
ID MARKS : MW000RFIMW16
PROJECT : G200-R05-020 BC
DATE SAMPLED : 26-SEP-1996

MISCELLANEOUS ANALYSES			
TEST REQUESTED		DETECTION LIMIT	RESULTS
Cyanide, Total	/1	0.010 mg/L	0.163 mg/L
Dilution Factor : 1 Analyzed using EPA 9010 on 4-OCT-1996 by ADG QC Batch No : 865038			
Sulfide, Total	/1	1.00 mg/L	< 1.00 mg/L
Dilution Factor : 1 Analyzed using EPA 9030 on 1-OCT-1996 by DAB QC Batch No : 720071			

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 27-SEP-1996

REPORT NUMBER : D96-10809-3
REPORT DATE : 31-OCT-1996

SAMPLE SUBMITTED BY : AT Kearney, Inc.
ADDRESS : Third Floor, One Wall Street Court
: New York, NY 10005
ATTENTION : Ms. Julie Shanahan

SAMPLE MATRIX : Liquid
ID MARKS : MW000RFIMW2
PROJECT : G200-R05-020 BC
DATE SAMPLED : 26-SEP-1996

MISCELLANEOUS ANALYSES			
TEST REQUESTED		DETECTION LIMIT	RESULTS
Cyanide, Total	/1	0.010 mg/L	< 0.010 mg/L
Dilution Factor : 1 Analyzed using EPA 9010 on 4-OCT-1996 by ADG QC Batch No : 865038			
Sulfide, Total	/1	1.00 mg/L	< 1.00 mg/L
Dilution Factor : 1 Analyzed using EPA 9030 on 1-OCT-1996 by DAB QC Batch No : 720071			

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 27-SEP-1996

REPORT NUMBER : D96-10809-4
REPORT DATE : 31-OCT-1996

SAMPLE SUBMITTED BY : AT Kearney, Inc.
ADDRESS : Third Floor, One Wall Street Court
: New York, NY 10005
ATTENTION : Ms. Julie Shanahan

SAMPLE MATRIX : Liquid
ID MARKS : RFIMW15
PROJECT : G200-R05-020 BC
DATE SAMPLED : 26-SEP-1996

MISCELLANEOUS ANALYSES			
TEST REQUESTED		DETECTION LIMIT	RESULTS
Cyanide, Total	/1	0.010 mg/L	< 0.010 mg/L
Dilution Factor : 1 Analyzed using EPA 9010 on 2-OCT-1996 by ADG QC Batch No : 865037			
Sulfide, Total	/1	1.00 mg/L	< 1.00 mg/L
Dilution Factor : 1 Analyzed using EPA 9030 on 2-OCT-1996 by ADG QC Batch No : 720072			

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 27-SEP-1996

REPORT NUMBER : D96-10809-5
REPORT DATE : 31-OCT-1996

SAMPLE SUBMITTED BY : AT Kearney, Inc.
ADDRESS : Third Floor, One Wall Street Court
: New York, NY 10005
ATTENTION : Ms. Julie Shanahan

SAMPLE MATRIX : Liquid
ID MARKS : RFIMW115F
PROJECT : G200-R05-020 BC
DATE SAMPLED : 26-SEP-1996

MISCELLANEOUS ANALYSES			
TEST REQUESTED		DETECTION LIMIT	RESULTS
Cyanide, Total	/1	0.010 mg/L	< 0.010 mg/L
Dilution Factor : 1 Analyzed using EPA 9010 on 2-OCT-1996 by ADG QC Batch No : 865037			
Sulfide, Total	/1	1.00 mg/L	< 1.00 mg/L
Dilution Factor : 1 Analyzed using EPA 9030 on 2-OCT-1996 by ADG QC Batch No : 720072			

QUALITY CONTROL DATA

Inchcape Testing Services
Environmental Laboratories

REPORT DATE : 31-OCT-1996 REPORT NUMBER : D96-10809

SAMPLE SUBMITTED BY : AT Kearney, Inc.
ATTENTION : Ms. Julie Shanahan
PROJECT : G200-R05-020 BC

LABORATORY QUALITY CONTROL REPORT

ANALYTE	Cyanide, Total
BATCH NO.	865037
LCS LOT NO.	ERA 9968
PREP METHOD	---
PREPARED BY	---
ANALYSIS METHOD	EPA 9010
ANALYZED BY	ADG
UNITS	mg/L
METHOD BLANK	< 0.01
SPIKE LEVEL	1.00
MS RESULT	1.00
MS RECOVERY %	99.7
MSD RESULT	1.01
MSD RECOVERY %	101
MS/MSD RPD %	1.30
BS RESULT	NA
BS RECOVERY %	NA
BSD RESULT	NA
BSD RECOVERY %	NA
BS/BSD RPD %	NA
DUPLICATE RPD %	NC
LCS LEVEL	0.218
LCS RESULT	0.174
LCS RECOVERY %	79.8
SPIKE SAMPLE ID	10809-4
DUP SAMPLE ID	-----

NA Not applicable
NC Not calculable

Inchcape Testing Services
Environmental Laboratories

REPORT DATE : 31-OCT-1996 REPORT NUMBER : D96-10809

SAMPLE SUBMITTED BY : AT Kearney, Inc.
ATTENTION : Ms. Julie Shanahan
PROJECT : G200-R05-020 BC

LABORATORY QUALITY CONTROL REPORT

ANALYTE	Cyanide, Total
BATCH NO.	865038
LCS LOT NO.	ERA 9968
PREP METHOD	---
PREPARED BY	---
ANALYSIS METHOD	EPA 9010
ANALYZED BY	ADG
UNITS	mg/L
METHOD BLANK	< 0.01
SPIKE LEVEL	1.00
MS RESULT	1.01
MS RECOVERY %	101
MSD RESULT	1.00
MSD RECOVERY %	99.7
MS/MSD RPD %	1.30
BS RESULT	NA
BS RECOVERY %	NA
BSD RESULT	NA
BSD RECOVERY %	NA
BS/BSD RPD %	NA
DUPLICATE RPD %	NC
LCS LEVEL	0.218
LCS RESULT	0.181
LCS RECOVERY %	83.0
SPIKE SAMPLE ID	10809-1
DUP SAMPLE ID	-----

NA Not applicable
NC Not calculable

Inchcape Testing Services
Environmental Laboratories

REPORT DATE : 31-OCT-1996 REPORT NUMBER : D96-10809

SAMPLE SUBMITTED BY : AT Kearney, Inc.
ATTENTION : Ms. Julie Shanahan
PROJECT : G200-R05-020 BC

LABORATORY QUALITY CONTROL REPORT

ANALYTE	Sulfide, Total
BATCH NO.	720071
LCS LOT NO.	853056A
PREP METHOD	---
PREPARED BY	---
ANALYSIS METHOD	EPA 9030
ANALYZED BY	DAB
UNITS	mg/L
METHOD BLANK	< 1.00
SPIKE LEVEL	9.20
MS RESULT	NS
MS RECOVERY %	NS
MSD RESULT	NS
MSD RECOVERY %	NS
MS/MSD RPD %	NS
BS RESULT	9.40
BS RECOVERY %	102
BSD RESULT	9.20
BSD RECOVERY %	100
BS/BSD RPD %	2.15
DUPLICATE RPD %	NS
LCS LEVEL	10.0
LCS RESULT	9.20
LCS RECOVERY %	92.0
SPIKE SAMPLE ID	-----
DUP SAMPLE ID	-----

NA Not applicable
NC Not calculable
NS Insufficient sample available for MS/MSD. BS/BSD used.

Inchcape Testing Services
Environmental Laboratories

REPORT DATE : 31-OCT-1996 REPORT NUMBER : D96-10809

SAMPLE SUBMITTED BY : AT Kearney, Inc.
ATTENTION : Ms. Julie Shanahan
PROJECT : G200-R05-020 BC

LABORATORY QUALITY CONTROL REPORT

ANALYTE	Sulfide, Total
BATCH NO.	720072
LCS LOT NO.	853056D
PREP METHOD	---
PREPARED BY	---
ANALYSIS METHOD	EPA 9030
ANALYZED BY	ADG
UNITS	mg/L
METHOD BLANK	< 1.00
SPIKE LEVEL	9.00
MS RESULT	NS
MS RECOVERY %	NS
MSD RESULT	NS
MSD RECOVERY %	NS
MS/MSD RPD %	NS
BS RESULT	9.00
BS RECOVERY %	100
BSD RESULT	9.00
BSD RECOVERY %	100
BS/BSD RPD %	0.00
DUPLICATE RPD %	-----
LCS LEVEL	10.0
LCS RESULT	9.20
LCS RECOVERY %	92.0
SPIKE SAMPLE ID	-----
DUP SAMPLE ID	-----

NA Not applicable
NC Not calculable
NS Insufficient sample available for MS/MSD. BS/BSD used.

PREPARATION AND ANALYSIS LOGS

CYANIDE (EPA 9010 or 335.2)

Batch No. 065058 Book No. AB865 Page 038

INCHCAPE TESTING SERVICES

Distillation Date	10-4-96	Assay Date	10-4-96
Interm. Std ID	725040C	Working Std ID	725069B
LCS ID	ZRH 9968	Pyridine-BBA ID	725066C

ALICIA GARRIOTTE 10-4-96
Analyst Date

BAF 10-4-96
Reviewer Date

Standards (µg CN/250mL)	Absorbance (578 nm)
0.00	0.000
10	0.060
20	0.113
50	0.264
100	0.496
150	0.696
200	0.957

$$A_{\mu g CN^-} = M(X) + R$$

$$Result = \frac{A}{B} \times \frac{50}{C}$$

Correlation	0.9993
Slope "M"	213.2
Intercept "R"	-3.05

Sample ID	Distillation Position	NOTE*	Sample Amount "B" (ml or g)	Distillate Volume (mls)	Distillate Assayed "C" (mls)	Absorbance "X"	µg CN "A"	Result (mg/L or mg/Kg)	Comments
Blank	16		500	250	50	0.000	<0.01	<0.01	
LCS (TV = 0.218 mg/L)	19		100	250		0.099	~~<0.01~~	~~<0.01~~ 18.1	0.181
Dup (Sx # 10809-1)	15			250		0.000	<0.01	<0.01	
MS (Spike = 1.0 ppm)	18			250		0.490	101.4	101.4% =	1.01
MSD (Sx # 10809-1)	17			250		0.482	99.7	0.997	
1. 10809-1	14		500	250		0.397	81.6	0.163	
2. 1 -3	13			250		0.000	<0.01	<0.01	
3. 10817-3	12			250		0.001	<0.01	<0.01	
4. 1 -4	11			250		0.025	2.28	<0.01	
5. 10962-1	8			250		0.002	<0.01	<0.01	
6. 11052-2	7			250		0.002	<0.01	<0.01	
7. 10937-1	5			250		0.000	<0.01	<0.01	
8. 1 -2	4			250		0.000	<0.01	<0.01	
9.				250					
10.				250					
10 µg Std (optional)	3		500	250	50	0.055	8.68	86.8%	
200 µg Std (optional)	1		500	250	50	0.890	186.7	93.4%	

* A = Pre chlorinated for Amenable Determination S = Sulfamic Acid Added Cl = Chlorine Demand in Distillate B = Bismuth Nitrate Added (9010) PBA = Lead Acetate Scrubber Used (335.2) *NOTE: B and PBA require that the Standard Curve be Distilled*

T:\DIFORMN\QCFORMS\CN_1.FRM

CYANIDE (EPA 9010 or 335.2)

Batch No. 865037 Book No. AB865 Page 127

INCHCAPE TESTING SERVICES

Distillation Date	10-2-96	Assay Date	10-2-96
Interm. Std ID	725040C	Working Std ID	725068F
LCS ID	EMH 9968	Pyridine-BBA ID	725066C

ALICIA GARRIOTE 10-2-96
Analyst Date

HmA 11/5/96
Reviewer Date

Standards (µg CN/250mL)	Absorbance (578 nm)
0.00	0.000
10	0.060
20	0.113
50	0.264
100	0.496
150	0.696
200	0.957

$$A_{\mu gCN^-} = M(X) + R$$

$$Result = \frac{A}{B} \times \frac{50}{C}$$

Correlation	0.9993
Slope "M"	213.2
Intercept "R"	-3.05

Sample ID	Distillation Position	NOTE*	Sample Amount "B" (ml or g)	Distillate Volume (mls)	Distillate Assayed "C" (mls)	Absorbance "X"	µg CN "A"	Result (mg/L or mg/Kg)	Comments
Blank	16		500	250	50	0.000	<0.01	<0.01	
LCS (TV = 0.218 mg/L)	19		100	250		0.096	17.4	0.174	
Dup (Sx # 10809-4)	15			250		0.000	<0.01	<0.01	
MS (Spike = 1.0 ppm)	18			250		0.482	99.7	0.997	
MSD (Sx # 10809-4)	17			250		0.490	101.4	1.01	
1. 10920-1	14		500	250		0.000	<0.01	<0.01	
2. 1 -2	13			250		0.001	<0.01	<0.01	
3. 10769-1	12			250		0.004	<0.01	<0.01	
4. 10809-4	11			250		0.000	<0.01	<0.01	
5. 1 -5	8			250		0.002	<0.01	<0.01	
6. 10817-1	7			250		0.000	<0.01	<0.01	
7. 10857-1	5			250		0.001	<0.01	<0.01	
8. 1 -2	4			250		0.008	<0.01	<0.01	
9.				250					
10.				250					
10 µg Std (optional)	3		500	250	50	0.055	8.68	86.8%	
200 µg Std (optional)	1		500	250	50	0.889	186.5	93.2%	

* A = Pre chlorinated for Amenable Determination S = Sulfamic Acid Added Cl = Chlorine Demand in Distillate B = Bismuth Nitrate Added (9010) PBA = Lead Acetate Scrubber Used (335.2) *NOTE: B and PBA require that the Standard Curve be Distilled*

T:\DIFORMN\QCFORMS\CN_1.FRM

10-2-96 Sulfide-L @650nm

STD ID # — 809008D (spike)
STD ID # — 809008 E
LCS ID # - 853056D

BLK 10-10=0
STD. I. 10-7.75 = 2.25
STD. II. 10-7.75 = 2.25

$\frac{2.25 \times 0.025 \times 16000}{100} = 9.0$ ppm

SA	MLS USED	TITRATION	[CONC.]
BLANK	100	10-10=0	<1.0
LCS (100ppm)	100	10-7.7=23	9.2/92%
10809-4	800/100	10-10=0	<1.0
10809-5	200/100	10-10=0	<1.0
10814-1	100	10-10=0	<1.0
10814-2	1000/100	10-10=0	<1.0
-3	1000/100	10-10=0	<1.0
-4	1000/100	10-10=0	<1.0
-5	1000/100	10-10=0	<1.0
-6	1000/100	10-10=0	<1.0
-7	1000/100	10-10=0	<1.0
-8	1000/100	10-10=0	<1.0
BS	100	10-7.75 = 2.25	9.0/90%
BSD	100	10-7.75 = 2.25	9.0/90%

AJ 10-2-96

Continued on Page

Read and Understood By

A. Harriette 10-2-96 BMC 11-5-96
Signed Date Signed Date

10-1-96 Sulfide _ L DB

Blank 10 - 10 = 0.00
std I 10 - ~~7.85~~ 7.70 = ~~2.15~~ 2.30 } repeated with new titrant
Std II 10 - ~~7.85~~ 7.70 = ~~2.15~~ 2.30 DB

Std ID # 809008D (spike) $\frac{2.30 \times 0.025 \times 16000}{100}$ = ~~8.60~~ 9.20 ppm DB
Std ID # 809008E
LCS ID # 853056

Sx	m/s used	Titration	(conc.)
Blank	100	10-10 = 0.0	<1.0
LCS (10.0 ppm)	100	10-7.7 = 2.30	9.2/92%
10774-1	1000/100	10-10 = 0.00	<1.0 ~~<0.1~~ DB ~~<1.0~~ DB
-2	1000/100	10-10 = 0.00	<1.0 ~~<0.1~~ ~~<1.0~~ DB
-3	1010/100	10-10 = 0.00	<1.0 <0.1 ~~<1.0~~ DB
-4	230/100	10-10 = 0.00	<1.0 <0.1 ~~<1.0~~ DB
-5	1000/100	10-10 = 0.00	<1.0 ~~<0.1~~ ~~<1.0~~ DB
-6	1000/100	10-10 = 0.00	<1.0 <0.1 ~~<1.0~~ DB
-7	1000/100	10-10 = 0.00	<1.0 ~~<0.1~~ ~~<1.0~~ DB
-8	1000/100	10-10 = 0.00	<1.0 ~~<0.1~~ ~~<1.0~~ DB
-10809-1	950/100	10-10 = 0.00	<1.0 ~~<0.1~~ ~~<1.0~~ DB
-3	970/100 10/100	10-10 = 0.00	<1.0 <0.1 ~~<1.0~~ DB
9.20 ~~10 ppm~~ -BS	100	10-7.65 = 2.35	9.4/102.2%
-BSD	100	10-7.70 = 2.30	9.2/100%

DB 10-1-96

Continued on Page

Read and Understood By

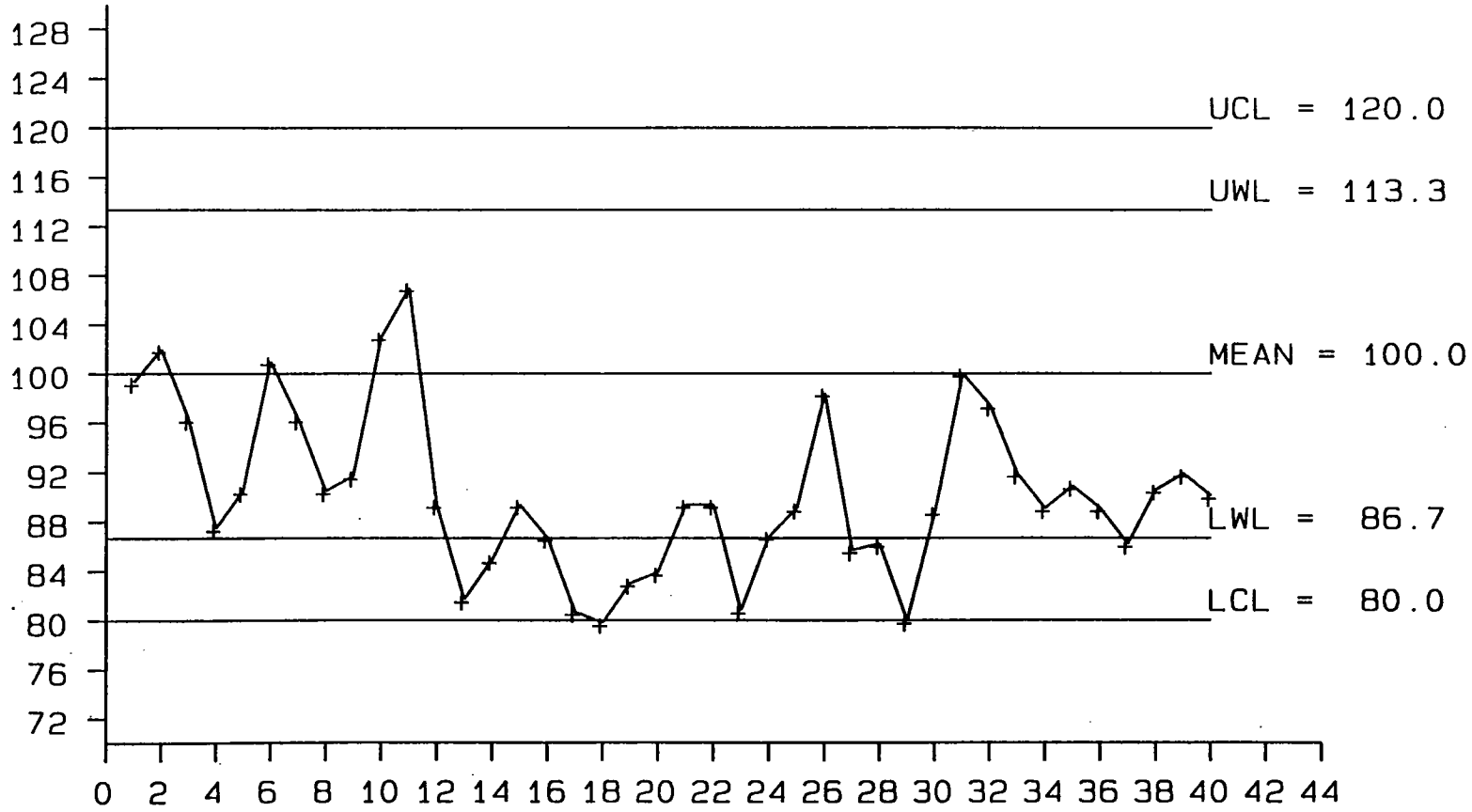
DB	10-1-96	BAF	11-5-96
Signed	Date	Signed	Date

790

CONTROL CHARTS

CN_TOTAL_L Cyanide, Total (LCS RECOVERY)

Produced by A_HUMASO on 28-OCT-1996 14:31:43.81



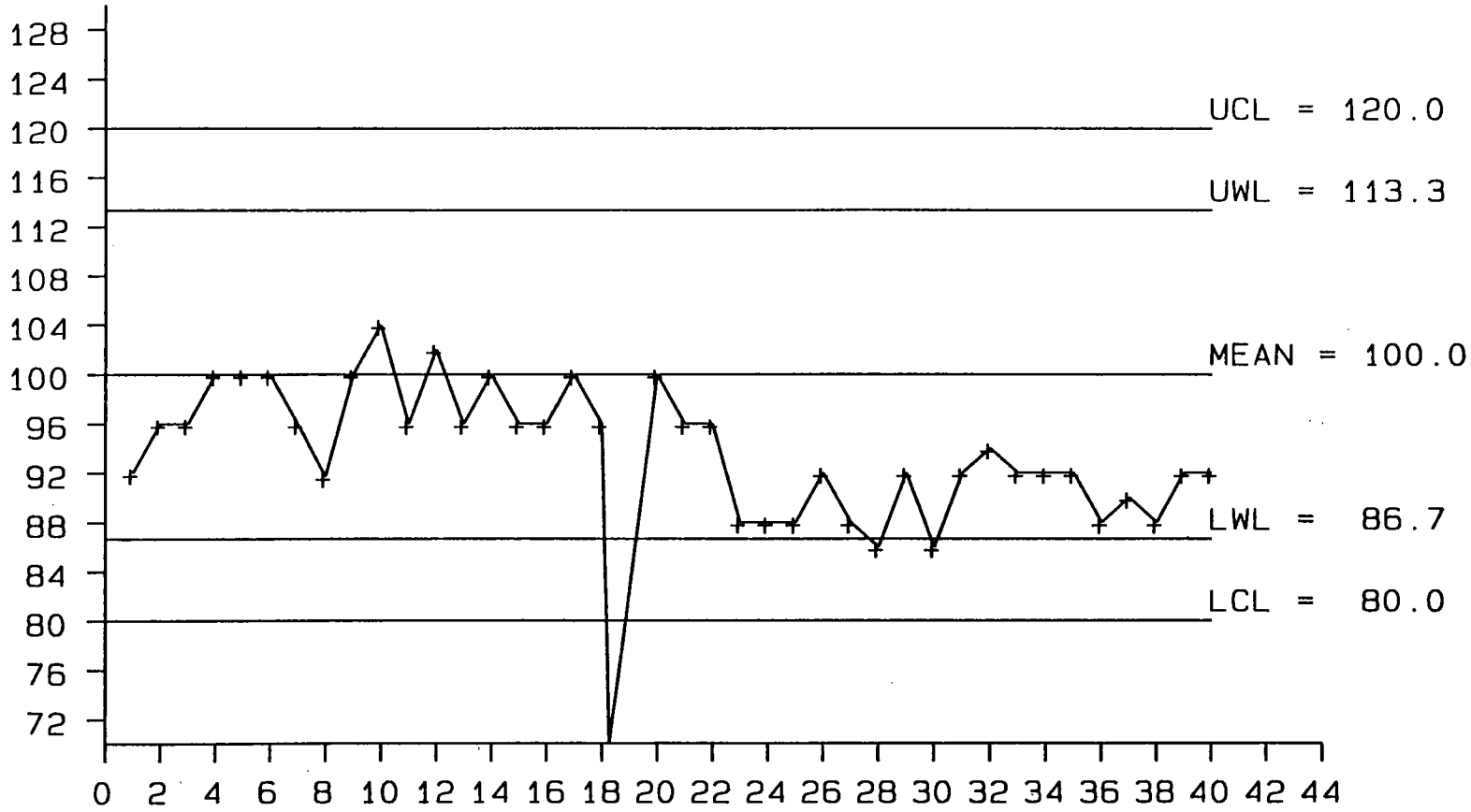
Inchcape Testing Services
Environmental Laboratories

Data Points for: CN_TOTAL_L Cyanide, Total
Chart Type: LCS RECOVERY
Generated on: 28-OCT-1996 14:31

Current Control Limits
(80.0 - 120.0)

Point	Batch Number	Date Analyzed	Value (%)
1	865018	12-SEP-1996 0	99.3
2	865020	13-SEP-1996 0	102
3	865021	17-SEP-1996 0	96.3
4	865022	18-SEP-1996 0	87.5
5	865023	19-SEP-1996 0	90.5
6	865024	20-SEP-1996 0	101
7	0923901001	23-SEP-1996 0	96.3
8	0923901002	23-SEP-1996 0	90.5
9	865028	24-SEP-1996 0	91.7
10	865029	25-SEP-1996 0	103
11	865030	26-SEP-1996 0	107
12	865031	27-SEP-1996 0	89.4
13	865033	29-SEP-1996 0	81.7
14	865032	29-SEP-1996 0	84.9
15	865034	30-SEP-1996 0	89.4
16	865035	1-OCT-1996 0	86.7
17	865036	1-OCT-1996 0	80.7
18	865037	2-OCT-1996 0	79.8
19	865038	4-OCT-1996 0	83.0
20	865039	4-OCT-1996 0	83.9
21	865041	7-OCT-1996 0	89.4
22	865040	7-OCT-1996 0	89.4
23	865045	10-OCT-1996 0	80.8
24	865046	11-OCT-1996 0	86.8
25	865047	11-OCT-1996 0	89.1
26	865048	14-OCT-1996 0	98.4
27	865049	14-OCT-1996 0	85.7
28	865050	15-OCT-1996 0	86.2
29	865054	17-OCT-1996 0	80.0
30	865053	17-OCT-1996 0	88.8
31	865058	18-OCT-1996 0	100
32	865057	18-OCT-1996 0	97.4
33	865059	20-OCT-1996 0	91.9
34	865060	20-OCT-1996 0	89.1
35	865061	21-OCT-1996 0	90.9
36	865062	21-OCT-1996 0	89.1
37	865063	23-OCT-1996 0	86.2
38	865064	23-OCT-1996 0	90.6
39	865067	24-OCT-1996 0	91.9
40	865068	24-OCT-1996 0	90.1

SULFIDE_L Sulfide, Total (LCS RECOVERY)
Produced by GKHORTON on 7-NOV-1996 15:33:51.60



Inchcape Testing Services
Environmental Laboratories

Data Points for: SULFIDE_L Sulfide, Total
Chart Type: LCS RECOVERY
Generated on: 7-NOV-1996 15:33

Current Control Limits
(80.0 - 120.0)

Point	Batch Number	Date Analyzed	Value (%)
1	720012	16-APR-1996 0	92.0
2	720013C	17-APR-1996 0	96.0
3	0417376101	17-APR-1996 0	96.0
4	0417376102	17-APR-1996 0	100
5	720013B	17-APR-1996 0	100
6	0417903002	17-APR-1996 0	100
7	0417903001	17-APR-1996 0	96.0
8	720018B	23-APR-1996 0	91.7
9	720020	29-APR-1996 0	100
10	720021B	2-MAY-1996 0	104
11	720023	6-MAY-1996 0	96.0
12	720026	28-MAY-1996 0	102
13	720034	12-JUN-1996 0	96.0
14	720035	13-JUN-1996 0	100
15	720036A	17-JUN-1996 0	96.0
16	720036B	17-JUN-1996 0	96.0
17	720038A	18-JUN-1996 0	100
18	720038B	18-JUN-1996 0	96.0
19	810001A	19-JUN-1996 0	CHECK LEVEL
20	720041A	27-JUN-1996 0	100
21	720043	1-JUL-1996 0	96.0
22	720044	3-JUL-1996 0	96.0
23	720049	16-JUL-1996 0	88.0
24	720052	23-JUL-1996 0	88.0
25	720056	30-JUL-1996 0	88.0
26	720057	5-AUG-1996 0	92.0
27	720058	12-AUG-1996 0	88.0
28	720059	16-AUG-1996 0	86.0
29	720061	28-AUG-1996 0	92.0
30	720068	13-SEP-1996 0	86.0
31	720069A	19-SEP-1996 0	92.0
32	720070A	25-SEP-1996 0	94.0
33	720070B	25-SEP-1996 0	92.0
34	720071	1-OCT-1996 0	92.0
35	720072	2-OCT-1996 0	92.0
36	720073	4-OCT-1996 0	88.0
37	720075	11-OCT-1996 0	90.0
38	72076	17-OCT-1996 0	88.0
39	72077	28-OCT-1996 0	92.0
40	72078	29-OCT-1996 0	92.0

Inchcape Testing Services
Environmental Laboratories

CHAINS OF CUSTODY, SHIPPING DOCUMENTS, INVENTORY SHEETS

AT KEARNEY

A.T. Kearney Inc.
222 West Adams
Chicago, IL 60606
312/648-0111

Chain of Custody Record

Project Code: 6200 R05-020	Samples Shipped To: IT2, 1889 East Collins Blvd #100, Richardson, TX 75081, ATTN: Janice McKottrick	Samplers Names: JOHN KOEHNEN	1) Sample description (Enter in column A): 1. Surface Water, 2. Ground Water, 3. Leachate, 4. Rinsate, 5. Soil/Sediment, 6. Oil, 7. Waste, 8. Other (specify)
Project (site) Name: BC			2) Preservatives (Enter in column B): 1. HCl, 2. HNO_3, 3. $Na\,HSO_4$, 4. H_2SO_4, 5. NaOH, 6. Other (specify), 7. Ice only, N. Not preserved
City, State, Zip Code: WYANDOTTE, MI	Carrier: FEDEX	Samplers Signatures: John Koehnen	
Date Shipped: 9/26/96	Air Bill Number: 6518270404		

Sample Identification Numbers	A. Matrix enter from Box 1	B. Preser. enter from Box 2	Grab or Comp	Number of Sample Containers	MM/DD/YY Time sample collection	Analysis: VOCs	SVOCs	CYANIDE	SULFIDE	TOT METAL	DIS MET	10809	Remarks/ Tag Numbers
MW000RFIMW16	2	1	G	3	9/26/96 1100	X							10100-10102
MW000RFIMW16	2	7	G	2	9/26/96 1100		X						10103-10104
MW000RFIMW16	2	5	G	1	9/26/96 1100			X					10105
MW000RFIMW16	2	5	G	1	9/26/96 1100				X				10106
MW000RFIMW16	2	2	G	2	9/26/96 1100					X	X		10107, 10108
TB001	8	1	G	2	9/26/96 1548	X							2 10109, 10110
MW000RFIMW2	2	1	G	3	9/26/96 1445	X							3 10111, 10112, 10113
RFIMW15	2	1	G	3	9/26/96 0910	X							4 10075, 10076, 10077
RFIMW115F	2	1	G	3	9/26/96 0910	X							5 10084, 10085, 10086

COOLER TEMPERATURE WHEN RECEIVED 4 °C

ORIGINAL

Relinquished By	Time	Date	Received By	Time	Date	Received By	Time	Date	Received By	Time	Date
John Koehnen	1820	9/26/96	[illegible]	1030	9/27/96						
Relinquished By	Time	Date	Received By	Time	Date	Received By	Time	Date	Received By	Time	Date

Remarks: METALS BY 6010A/7060A/7421/7471A/7470/7740/7761/7841/

Split Samples — Accepted — Declined (Signature)

Distribution: Original — A.T. Kearney, Inc.
Carbon copies — Laboratory, work assignment manager, client (as appropriate)

Page 1 of 1

A.T. Kearney 1/3907/1 TR

1

AT KEARNEY

A.T. Kearney Inc.
222 West Adams
Chicago, IL 60606
312/648-0111

Chain of Custody Record

Project Code: 6200 R05.020	Samples Shipped To: ITC, 1084 EAST COLLINS BLVD #100, RICHARDSON TX 75081, ATTN: JANICE McCOTTREL	Samplers Names: JOHN KOEHNEN	1) Sample description (Enter in column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (specify)
Project (site) Name: BC			2) Preservatives (Enter in column B): 1. HCl 2. HNO_3 3. Na HSO_4 4. H_2SO_4 5. Na OH 6. Other (specify) 7. Ice only N. Not preserved
City, State, Zip Code: WYANDOTTE, MI	Carrier: FEDEX	Samplers Signatures: John Koehnen	
Date Shipped: 9/26/96	Air Bill Number: 6518270382		

Sample Identification Numbers	A. Matrix enter from Box 1	B. Preser. enter from Box 2	Grab or Comp	Number of Sample Containers	MM/DD/YY Time sample collection	Analysis: SVOC	CYANIDE	SULFIDE	PESTICIDES	HERBS	TOT METALS	DS METALS	10809	Remarks/ Tag Numbers
MW000RFIMW2	~~02~~ 7	7	G	2	9/26/96 1445	X								10114, 10115
" "	~~02~~ 5	5	G	1	" "		X							10116
" "	~~02~~ 5	5	G	1	" "			X					-3	10117
" "	~~02~~ 7	7	G	1	" "				X					10118
" "	7	7	G	1	" "					X				10119
" "	2	2	G	1	" "						X			10120
" "	2	2	G	1	" "							X		10121
~~MW~~ RFIMW115F	~~02~~ 2	2	G	2	9/26/96 0910						X	X	5	10091, 10092

COOLER TEMPERATURE WHEN RECEIVED 4 °C

Relinquished By	Time	Date	Received By	Time	Date	Received By	Time	Date	Received By	Time	Date
John Koehnen	1820	9/26/96	[illegible]	9/27/96	1830						
Relinquished By	Time	Date	Received By	Time	Date	Received By	Time	Date	Received By	Time	Date

Remarks: METALS BY: 6010A/7060A/7421/7421A/7470/7740/7761/7841

Split Samples — Accepted — Declined (Signature)

Distribution: Original — A.T. Kearney Inc.
Carbon copies — Laboratory, work assignment manager, client (as appropriate)

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A.T. Kearney 1/3907/1 TR

3

AT KEARNEY

A.T. Kearney Inc.
222 West Adams
Chicago, IL 60606
312/648-0111

Chain of Custody Record

11019

Project Code	Samples Shipped To	Samplers Names	1) Sample description (Enter in column A)	2) Preservatives (Enter in column B)
6200 RS 020	ITS 1089 EAST COLLINS BLVD #100 RICHARDSON, TX 75081 ATTN: JANICE McKITTRICK	JOHN KOEHNEN	1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (specify)	1. HCl 2. HNO_3 3. Na HSO_4 4. H_2SO_4 5. Na OH 6. Other (specify) 7. Ice only N. Not preserved
Project (site) Name: BC				
City, State, Zip Code: WYANDOTTE, MI	Carrier: FEDEX	Samplers Signatures: John Koehnen		
Date Shipped: 9/26/96	Air Bill Number: 6518270393			

Sample Identification Numbers	A. Matrix enter from Box 1	B. Preser. enter from Box 2	Grab or Comp	Number of Sample Containers	MM/DD/YY Time sample collection	Analysis: 8VOCs	CYANIDE	SULFIDE	TOT METALS	DIS METALS					Remarks/ Tag Numbers
RFIMW15	G	7	G	2	9/26/96 0910	X									10078, 10079
" "	G	5	G	1	" "		X								10080
" "	G	5	G	1	" "			X						4	10081
" "	G	2	G	2	" "				X	X					10082, 10083
RFIMW15F	G	7	G	1	9/26/96 0910	X								5	10087
" "	G	5	G	1	" "	X									10088
" "	G	5	G	1	" "		X								10089
" "	G	2	G	1	" "			X							10090

COOLER TEMPERATURE WHEN RECEIVED 4 °C

Relinquished By	Time	Date	Received By	Time	Date	Received By	Time	Date	Received By	Time	Date
John Koehnen	1920	9/26/96	[illegible signature]		9/27/96	1030					
Relinquished By	Time	Date	Received By	Time	Date	Received By	Time	Date	Received By	Time	Date

Remarks: METALS BY: 6010A/7060A/7421/7471A/7470/7740/7761/7841

Split Samples — Accepted — Declined (Signature)

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A.T. Kearney 1/3907/1 TR

(2)

567

COOLER RECEIPT FORM

Date Received: 9/27/96 Project: G200 R05 020

Date Logged-in: 9/27/96 Received by: [illegible]

1	Shipping slip. If yes, carrier and bill number: 6518270393 / 6518270382 / 6518270404	Yes	No
2	Custody seals on cooler. If yes, how many and where: 1 on front 1 on Right / 1 on front 1 on Right / 1 on front 1 on Right	Yes	No
3	Custody seals intact.	Yes	No
4	Chain of Custody in plastic.	Yes	No
5	Chain of Custody filled out properly.	Yes	No
6	Client signed Chain of Custody.	Yes	No
7	Samples shipped on ice. If no, temperature of cooler:	Yes	No
8	All bottles sealed.	Yes	No
9	All bottles received intact.	Yes	No
10	Labels in good condition and complete.	Yes	No
11	Sample labels agree with Chain of Custody.	Yes	No
12	Correct containers used.	Yes	No
13	Correct preservative used.	Yes	No
14	Sufficient sample provided.	Yes	No
15	Bubbles absent from VOA.	Yes	No
16	Comments (use corrective action form if necessary):		

INCHCAPE TESTING SERVICES
Dallas

SAMPLE PRESERVATION INFORMATION SHEET

Preserved By		JOB NUMBER
Date		
Time		Client Name

Sample No.	Container Type	Apparent Volume (mLs)	Initial pH* (20± 2°C)	Final pH	Preservative Added	Filtration	Comments

pH Duplicate (maximum difference = 0.2):

Sample No._____

pH LCS (pH = 7.0 ± 0.2):

Lot Number:_____

PRESERVATIVE / FILTRATION KEY

1 = Pre-preserved
2 = H_2SO_4 to pH<2
3 = HNO_3 to pH<2
4 = HCl to pH<2
5 = NaOH to pH>12
6 = $Na_2S_2O_3$ (0.008%)
7 = 2 mL ZnOAc/NaOH to pH>12
8 = No Preservative Required

F = Chain-of-Custody indicates sample was filtered in the field
L = Sample filtered (0.45 pm) in the laboratory before preservation

* The initial pH is determined in accordance with EPA methods 150.1 / SW-846 9040 using a sample aliquot which has been adjusted to 20 ± 2°C

801

1089 East Collins Blvd. • Richardson TX 75081 • (214) 238-5591 • Fax (214) 238-5592

6518270393

979 1000 43077394 51551

9/26/96

1593-0750-6

JOHN KOEHNEN 312 223-6253

A T KEARNEY/GDS ACCT

222 W ADAMS 25TH FL

CHICAGO IL 60606

G200 R05-020-01-06

JANICE McKITTRICK 214 238-5591

INCHCAPE TESTING SERVICES #100

1089 EAST COLLINS BLVD

RICHARDSON TX 75081

6 5 1 8 2 7 0 3 9 3

on front

on Right

194

6518270382

978 1000 43677394 [illegible]

9/26/96 1593-0750-5 (X)

JOHN KOEHNEN 312 227-6253

A T KEARNEY/GOS ACCT

222 W ADAMS 25TH FL

CHICAGO IL 60606

G200 R05-020-01-06

JANICE McKITTRICK 214 238-5591

INCHCAPE TESTING SVCS #100

1089 EAST COLLINS BLVD

RICHARDSON TX 75081

1 on front 1 on Right

6 5 1 8 2 7 0 3 8 2

194

843

6518270404

980 1000 43677394 51561

9/26/96

1593-0750-6

JOHN KOEHNEN 312 223-6253

A T KEARNEY/GDS ACCT

222 W ADAMS 25TH FL

CHICAGO IL 60606

6200 R05-020-01-06

JANICE MCKITTRICK 214 238-5591

INCHCAPE TESTING SVCS #100

1089 EAST COLLINS BLVD

RICHARDSON TX 75081

6 5 1 8 2 7 0 4 0 4

194

on front
on Right