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Analytical and Supporting Laboratory

Quality Control Data For

DOE - Hanford North Slope Site H-06-L

LEVEL IV Deliverable for Samples

HEIS #

BOBSY5 EA11-1-07 (ESE# CDMHNSS*21)
BOBSZ3 WA04-4-08 (ESE# CDMHNSS*29)
BOBSZ4 WSV2-1-01 (ESE# CDMHNSS*30)
BOBTO2 EA01-4-14 (ESE# CDMHNSS*36)

VOLUME 1

Prepared by: Environmental Science & Engineering, Inc.
May 1994

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CASE NARRATIVE

The Analytical and Supporting Quality Control Data for samples

EA11-1-07 (ESE# CDMHNSS*21),
WA04-4-08 (ESE# CDMHNSS*29),
WSV2-1-01 (ESE# CDMHNSS*30), and
EA01-4-14 (ESE# CDMHNSS*36)

collected from Hanford, WA Landfill North Slope H-06-L and scheduled for level IV deliverable documentation are contained in this document.

This document consists of this Case Narrative, a Sample Date, Cross-Reference & Methodologies Report, the Analytical Results & Supporting Data and the Chain-of-Custody forms. The first section is a repeat of the level III data with all data for this site reported.

There are more than the requested number of samples in selected analytical sections due to the way ESE laboratory batched the samples for extraction and analysis. All of the data in a batch is reported with the section as level IV data if one of the above samples was in that batch for that method. Pesticides, volatiles and semivolatiles were analyzed by CLP OLM01.8 methodology. The metals and TRPH were analyzed by SW 486 methods.

The qualifier codes utilized on the Form I pages in this document are U, a compound that was analyzed for but not detected and D, all compounds identified in an analysis at a secondary dilution.

EPA holding times were met. In general, project specific and laboratory quality control (QC) requirements were met and sample matrix outliers are due to matrix effects such as oily samples or high concentrations of target analytes. Each batch, except TRPH has a case narrative specific to the batch. There were no notable problems with TRPH.

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Sample Date, Cross Reference &

Methodologies Report

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
SAMPLE DATE AND CROSS REFERENCE REPORT FOR CDM - HANFORD NORTH SLOPE LABORATORY ANALYSES

CDM SAMPLE ID	LABORATORY SAMPLE ID	DATE COLLECT	DATE RECEIVED	ANALYSIS DESCRIPTION	DATE EXTRACTED	DATE ANALYZED	DAYS, ACTUAL/HOLD TIME DAYS TO EXTRACTION	DAYS TO ANALYSIS	ESE BATCH
EA01-1-10	CDMHNSS*22	05/02/94	05/03/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	1/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/03/94	NA	1/180	G48700
				ARSENIC - EPA 7060	NA	05/03/94	NA	1/180	G48747
				SELENIUM - EPA 7740	NA	05/03/94	NA	1/180	G48748
				MERCURY - EPA 7471 (MOD)	NA	05/04/94	NA	2/28	G48770
				ICAP METALS, EPA 6010	NA	05/04/94	NA	2/180	G48756
				VOCS - EPA 8260	NA	05/03/94	NA	1/14	G48758
				SVOCS - EPA 8270/3540 (SOX)	05/03/94	05/05/94	1/14	2/40	G48825
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/03/94	05/05/94	1/14	2/40	G48806
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/05/94	NA	3/28	G48781
EA01-2-05	CDMHNSS*34	05/11/94	05/13/94	SCREEN, ALPHA/BETA	NA	05/16/94	NA	2/2	G49155
				PERCENT MOISTURE - ASTM D2216	NA	05/13/94	NA	2/180	G49118
				ARSENIC - EPA 7060	NA	05/16/94	NA	5/180	G49191
				SELENIUM - EPA 7740	NA	05/16/94	NA	5/180	G49179
				MERCURY - EPA 7471 (MOD)	NA	05/16/94	NA	5/28	G49180
				ICAP METALS, EPA 6010	NA	05/16/94	NA	5/180	G49175
				VOCS - EPA 8260	NA	05/13/94	NA	2/14	G49172
				SVOCS - EPA 8270/3540 (SOX)	05/14/94	05/15/94	3/14	1/40	G49170
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/12/94	05/15/94	1/14	3/40	G49161
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/16/94	NA	5/28	G49238
EA01-3-05	CDMHNSS*35	05/11/94	05/13/94	SCREEN, ALPHA/BETA	NA	05/16/94	NA	2/2	G49155
				PERCENT MOISTURE - ASTM D2216	NA	05/13/94	NA	2/180	G49118
				ARSENIC - EPA 7060	NA	05/16/94	NA	5/180	G49191
				SELENIUM - EPA 7740	NA	05/16/94	NA	5/180	G49179
				MERCURY - EPA 7471 (MOD)	NA	05/16/94	NA	5/28	G49180
				ICAP METALS, EPA 6010	NA	05/16/94	NA	5/180	G49175
				VOCS - EPA 8260	NA	05/13/94	NA	2/14	G49172
				SVOCS - EPA 8270/3540 (SOX)	05/14/94	05/15/94	3/14	1/40	G49170
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/12/94	05/15/94	1/14	3/40	G49161
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/16/94	NA	5/28	G49238
EA01-4-14	CDMHNSS*36	05/13/94	05/14/94	SCREEN, ALPHA/BETA	NA	05/16/94	NA	1/2	G49155
				PERCENT MOISTURE - ASTM D2216	NA	05/16/94	NA	3/180	G49144
				ARSENIC - EPA 7060	NA	05/16/94	NA	3/180	G49191
				SELENIUM - EPA 7740	NA	05/16/94	NA	3/180	G49179
				MERCURY - EPA 7471 (MOD)	NA	05/16/94	NA	3/28	G49180
				ICAP METALS, EPA 6010	NA	05/16/94	NA	3/180	G49175
				VOAS - CLP SOW OLM01.8	NA	05/16/94	NA	3/14	G49194
				SVOCS - CLP SOW OLM01.8	05/14/94	05/16/94	1/14	2/40	G49285
				OCPS/PCBS - CLP SOW OLM01.8	05/14/94	05/15/94	1/14	1/40	G49216
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/16/94	NA	3/28	G49238
EA01-5-12	CDMHNSS*37	05/13/94	05/14/94	SCREEN, ALPHA/BETA	NA	05/16/94	NA	1/2	G49155
				PERCENT MOISTURE - ASTM D2216	NA	05/16/94	NA	3/180	G49144
				ARSENIC - EPA 7060	NA	05/16/94	NA	3/180	G49191
				SELENIUM - EPA 7740	NA	05/16/94	NA	3/180	G49179
				MERCURY - EPA 7471 (MOD)	NA	05/16/94	NA	3/28	G49180
				ICAP METALS, EPA 6010	NA	05/16/94	NA	3/180	G49175
				VOCS - EPA 8260	NA	05/16/94	NA	3/14	G49199
				SVOCS - EPA 8270/3540 (SOX)	05/14/94	05/16/94	1/14	2/40	G49211
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/14/94	05/17/94	1/14	3/40	G49246
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/16/94	NA	3/28	G49238
EA01-6-10	CDMHNSS*38	05/13/94	05/14/94	SCREEN, ALPHA/BETA	NA	05/16/94	NA	1/2	G49155

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ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
SAMPLE DATE AND CROSS REFERENCE REPORT FOR CDM - HANFORD NORTH SLOPE LABORATORY ANALYSES

CDM SAMPLE ID	LABORATORY SAMPLE ID	DATE COLLECT	DATE RECEIVED	ANALYSIS DESCRIPTION	DATE EXTRACTED	DATE ANALYZED	DAYS, ACTUAL/HOLD TIME DAYS TO EXTRACTION	DAYS TO ANALYSIS	ESE BATCH
				PERCENT MOISTURE - ASTM D2216	NA	05/16/94	NA	3/180	G49144
				ARSENIC - EPA 7060	NA	05/16/94	NA	3/180	G49191
				SELENIUM - EPA 7740	NA	05/16/94	NA	3/180	G49179
				MERCURY - EPA 7471 (MOD)	NA	05/16/94	NA	3/28	G49180
				ICAP METALS, EPA 6010	NA	05/16/94	NA	3/180	G49175
				VOCS - EPA 8260	NA	05/16/94	NA	3/14	G49199
				SVOCS - EPA 8270/3540 (SOX)	05/14/94	05/16/94	1/14	2/40	G49211
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/14/94	05/17/94	1/14	3/40	G49246
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/16/94	NA	3/28	G49238
WA04-1-05	CDMHNSS*15	04/25/94	04/27/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/27/94	NA	2/180	G48469
				ARSENIC - EPA 7060	NA	04/27/94	NA	2/180	G48546
				SELENIUM - EPA 7740	NA	04/28/94	NA	3/180	G48560
				MERCURY - EPA 7471 (MOD)	NA	04/27/94	NA	2/28	G48501
				ICAP METALS, EPA 6010	NA	04/28/94	NA	3/180	G48528
				VOCS - EPA 8260	NA	04/27/94	NA	2/14	G48570
				SVOCS - EPA 8270/3540 (SOX)	04/27/94	05/01/94	2/14	4/40	G48567
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/27/94	04/29/94	2/14	2/40	G48561
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/28/94	NA	3/28	G48569
WA04-2-12	CDMHNSS*16	04/25/94	04/27/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/27/94	NA	2/180	G48469
				ARSENIC - EPA 7060	NA	04/27/94	NA	2/180	G48546
				SELENIUM - EPA 7740	NA	04/28/94	NA	3/180	G48560
				MERCURY - EPA 7471 (MOD)	NA	04/27/94	NA	2/28	G48501
				ICAP METALS, EPA 6010	NA	04/28/94	NA	3/180	G48528
				VOCS - EPA 8260	NA	04/27/94	NA	2/14	G48570
				SVOCS - EPA 8270/3540 (SOX)	04/27/94	05/02/94	2/14	5/40	G48567
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/27/94	04/29/94	2/14	2/40	G48561
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/28/94	NA	3/28	G48569
WA04-3-20	CDMHNSS*28	05/04/94	05/06/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/06/94	NA	2/180	G48815
				ARSENIC - EPA 7060	NA	05/09/94	NA	5/180	G48918
				SELENIUM - EPA 7740	NA	05/09/94	NA	5/180	G48873
				MERCURY - EPA 7471 (MOD)	NA	05/10/94	NA	6/28	G48905
				ICAP METALS, EPA 6010	NA	05/09/94	NA	5/180	G48889
				VOCS - EPA 8260	NA	05/09/94	NA	5/14	G49000
				SVOCS - EPA 8270/3540 (SOX)	05/06/94	05/09/94	2/14	3/40	G48891
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/06/94	05/10/94	2/14	4/40	G48847
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/09/94	NA	5/28	G48928
WA04-4-08	CDMHNSS*29	05/04/94	05/06/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/06/94	NA	2/180	G48815
				ARSENIC - EPA 7060	NA	05/09/94	NA	5/180	G48918
				SELENIUM - EPA 7740	NA	05/09/94	NA	5/180	G48873
				MERCURY - EPA 7471 (MOD)	NA	05/10/94	NA	6/28	G48905
				ICAP METALS, EPA 6010	NA	05/09/94	NA	5/180	G48889
				VOAS - CLP SOW OLM01.8	NA	05/06/94	NA	2/14	G48933
				SVOCS - CLP SOW OLM01.8	05/06/94	05/09/94	2/14	3/40	G48916
				OCPS/PCBS - CLP SOW OLM01.8	05/06/94	05/09/94	2/14	3/40	G49096
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/09/94	NA	5/28	G48928
WA05-1-04	CDMHNSS*12	04/23/94	04/26/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	3/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/26/94	NA	3/180	G48433

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ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
SAMPLE DATE AND CROSS REFERENCE REPORT FOR CDM - HANFORD NORTH SLOPE LABORATORY ANALYSES

CDM SAMPLE ID	LABORATORY SAMPLE ID	DATE COLLECT	DATE RECEIVED	ANALYSIS DESCRIPTION	DATE EXTRACTED	DATE ANALYZED	DAYS, ACTUAL/HOLD TIME DAYS TO EXTRACTION	DAYS TO ANALYSIS	ESE BATCH
				ARSENIC - EPA 7060	NA	04/26/94	NA	3/180	G48451
				SELENIUM - EPA 7740	NA	04/26/94	NA	3/180	G48450
				MERCURY - EPA 7471 (MOD)	NA	04/27/94	NA	4/28	G48473
				ICAP METALS, EPA 6010	NA	04/27/94	NA	4/180	G48468
				VOCS - EPA 8260	NA	04/26/94	NA	3/14	G48484
				SVOCS - EPA 8270/3540 (SOX)	04/26/94	04/27/94	3/14	1/40	G48519
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/26/94	04/28/94	3/14	2/40	G48533
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/26/94	NA	3/28	G48544
WA05-2-03	CDMHNSS*13	04/25/94	04/27/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/27/94	NA	2/180	G48469
				ARSENIC - EPA 7060	NA	04/27/94	NA	2/180	G48546
				SELENIUM - EPA 7740	NA	04/28/94	NA	3/180	G48560
				MERCURY - EPA 7471 (MOD)	NA	04/27/94	NA	2/28	G48501
				ICAP METALS, EPA 6010	NA	04/28/94	NA	3/180	G48528
				VOCS - EPA 8260	NA	04/27/94	NA	2/14	G48570
				SVOCS - EPA 8270/3540 (SOX)	04/27/94	05/02/94	2/14	5/40	G48567
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/27/94	04/29/94	2/14	2/40	G48561
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/28/94	NA	3/28	G48569
WA05-3-04	CDMHNSS*14	04/25/94	04/27/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/27/94	NA	2/180	G48469
				ARSENIC - EPA 7060	NA	04/27/94	NA	2/180	G48546
				SELENIUM - EPA 7740	NA	04/28/94	NA	3/180	G48560
				MERCURY - EPA 7471 (MOD)	NA	04/27/94	NA	2/28	G48501
				ICAP METALS, EPA 6010	NA	04/28/94	NA	3/180	G48528
				VOCS - EPA 8260	NA	04/27/94	NA	2/14	G48570
				SVOCS - EPA 8270/3540 (SOX)	04/27/94	05/01/94	2/14	4/40	G48567
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/27/94	04/29/94	2/14	2/40	G48561
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/28/94	NA	3/28	G48569
WA07-1-01	CDMHNSS*10	04/22/94	04/26/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	4/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/26/94	NA	4/180	G48433
				ARSENIC - EPA 7060	NA	04/26/94	NA	4/180	G48451
				SELENIUM - EPA 7740	NA	04/26/94	NA	4/180	G48450
				MERCURY - EPA 7471 (MOD)	NA	04/27/94	NA	5/28	G48473
				ICAP METALS, EPA 6010	NA	04/27/94	NA	5/180	G48468
				VOCS - EPA 8260	NA	04/26/94	NA	4/14	G48484
				SVOCS - EPA 8270/3540 (SOX)	04/26/94	04/27/94	4/14	1/40	G48519
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/26/94	04/28/94	4/14	2/40	G48533
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/26/94	NA	4/28	G48544
WA07-2-05	CDMHNSS*11	04/23/94	04/26/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	3/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/26/94	NA	3/180	G48433
				ARSENIC - EPA 7060	NA	04/26/94	NA	3/180	G48451
				SELENIUM - EPA 7740	NA	04/26/94	NA	3/180	G48450
				MERCURY - EPA 7471 (MOD)	NA	04/27/94	NA	4/28	G48473
				ICAP METALS, EPA 6010	NA	04/27/94	NA	4/180	G48468
				VOCS - EPA 8260	NA	04/26/94	NA	3/14	G48484
				SVOCS - EPA 8270/3540 (SOX)	04/26/94	04/27/94	3/14	1/40	G48519
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/26/94	04/28/94	3/14	2/40	G48533
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/26/94	NA	3/28	G48544
EA11-1-07	CDMHNSS*21	04/29/94	05/03/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	5/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/03/94	NA	4/180	G48700
				ARSENIC - EPA 7060	NA	05/03/94	NA	4/180	G48747

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ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
SAMPLE DATE AND CROSS REFERENCE REPORT FOR CDM - HANFORD NORTH SLOPE LABORATORY ANALYSES

CDM SAMPLE ID	LABORATORY SAMPLE ID	DATE COLLECT	DATE RECEIVED	ANALYSIS DESCRIPTION	DATE EXTRACTED	DATE ANALYZED	DAYS, ACTUAL/HOLD TIME DAYS TO EXTRACTION	DAYS TO ANALYSIS	ESE BATCH
				SELENIUM - EPA 7740	NA	05/03/94	NA	4/180	G48748
				MERCURY - EPA 7471 (MOD)	NA	05/04/94	NA	5/28	G48770
				ICAP METALS, EPA 6010	NA	05/04/94	NA	5/180	G48756
				VOAS - CLP SOW OLM01.8	NA	05/05/94	NA	6/14	G48855
				SVOCS - CLP SOW OLM01.8	05/04/94	05/05/94	5/14	1/40	G48790
				OCPS/PCBS - CLP SOW OLM01.8	05/03/94	05/04/94	4/14	1/40	G48777
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/05/94	NA	6/28	G48781
EA12-1-10	CDMHNSS*19	04/27/94	04/29/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/29/94	NA	2/180	G48562
				ARSENIC - EPA 7060	NA	05/02/94	NA	5/180	G48701
				SELENIUM - EPA 7740	NA	05/02/94	NA	5/180	G48670
				MERCURY - EPA 7471 (MOD)	NA	04/29/94	NA	2/28	G48646
				ICAP METALS, EPA 6010	NA	05/02/94	NA	5/180	G48672
				VOCS - EPA 8260	NA	05/02/94	NA	5/14	G48684
				SVOCS - EPA 8270/3540 (SOX)	04/29/94	04/30/94	2/14	1/40	G48659
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/29/94	05/01/94	2/14	2/40	G48654
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/02/94	NA	5/28	G48667
EA12-2-12	CDMHNSS*20	04/27/94	04/29/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/29/94	NA	2/180	G48562
				ARSENIC - EPA 7060	NA	05/02/94	NA	5/180	G48701
				SELENIUM - EPA 7740	NA	05/02/94	NA	5/180	G48670
				MERCURY - EPA 7471 (MOD)	NA	04/29/94	NA	2/28	G48646
				ICAP METALS, EPA 6010	NA	05/02/94	NA	5/180	G48672
				VOCS - EPA 8260	NA	05/02/94	NA	5/14	G48684
				SVOCS - EPA 8270/3540 (SOX)	04/29/94	04/30/94	2/14	1/40	G48659
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/29/94	05/01/94	2/14	2/40	G48654
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/02/94	NA	5/28	G48667
EA14-1-01	CDMHNSS*17	04/27/94	04/29/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/29/94	NA	2/180	G48562
				ARSENIC - EPA 7060	NA	05/02/94	NA	5/180	G48701
				SELENIUM - EPA 7740	NA	05/02/94	NA	5/180	G48670
				MERCURY - EPA 7471 (MOD)	NA	04/29/94	NA	2/28	G48646
				ICAP METALS, EPA 6010	NA	05/02/94	NA	5/180	G48672
				VOCS - EPA 8260	NA	05/02/94	NA	5/14	G48684
				SVOCS - EPA 8270/3540 (SOX)	04/29/94	04/30/94	2/14	1/40	G48659
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/29/94	05/01/94	2/14	2/40	G48654
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/02/94	NA	5/28	G48667
EA14-2-01	CDMHNSS*18	04/27/94	04/29/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/29/94	NA	2/180	G48562
				ARSENIC - EPA 7060	NA	05/02/94	NA	5/180	G48701
				SELENIUM - EPA 7740	NA	05/02/94	NA	5/180	G48670
				MERCURY - EPA 7471 (MOD)	NA	04/29/94	NA	2/28	G48646
				ICAP METALS, EPA 6010	NA	05/02/94	NA	5/180	G48672
				VOCS - EPA 8260	NA	05/02/94	NA	5/14	G48684
				SVOCS - EPA 8270/3540 (SOX)	04/29/94	04/30/94	2/14	1/40	G48659
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/29/94	05/01/94	2/14	2/40	G48654
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/02/94	NA	5/28	G48667
WA16-1-02	CDMHNSS*8	04/22/94	04/23/94	PERCENT MOISTURE - ASTM D2216	NA	04/25/94	NA	3/180	G48375
				ARSENIC - EPA 7060	NA	04/25/94	NA	3/180	G48412
				SELENIUM - EPA 7740	NA	04/25/94	NA	3/180	G48411

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				MERCURY - EPA 7471 (MOD)	NA	04/25/94	NA	3/28	G48453
				ICAP METALS, EPA 6010	NA	04/26/94	NA	4/180	G48432
				VOCS - EPA 8260	NA	04/25/94	NA	3/14	G48437
				SVOCS - EPA 8270/3540 (SOX)	04/23/94	04/25/94	1/14	2/40	G48396
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/23/94	04/26/94	1/14	3/40	G48428
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/25/94	NA	3/28	G48406
WA16-2-03	CDMHNSS*9	04/22/94	04/23/94	PERCENT MOISTURE - ASTM D2216	NA	04/25/94	NA	3/180	G48375
				ARSENIC - EPA 7060	NA	04/25/94	NA	3/180	G48412
				SELENIUM - EPA 7740	NA	04/25/94	NA	3/180	G48411
				MERCURY - EPA 7471 (MOD)	NA	04/25/94	NA	3/28	G48453
				ICAP METALS, EPA 6010	NA	04/26/94	NA	4/180	G48432
				VOCS - EPA 8260	NA	04/25/94	NA	3/14	G48437
				SVOCS - EPA 8270/3540 (SOX)	04/23/94	04/24/94	1/14	1/40	G48396
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/23/94	04/26/94	1/14	3/40	G48428
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/25/94	NA	3/28	G48406
WA17-1-03	CDMHNSS*7	04/21/94	04/23/94	PERCENT MOISTURE - ASTM D2216	NA	04/25/94	NA	4/180	G48375
				ARSENIC - EPA 7060	NA	04/25/94	NA	4/180	G48412
				SELENIUM - EPA 7740	NA	04/25/94	NA	4/180	G48411
				MERCURY - EPA 7471 (MOD)	NA	04/25/94	NA	4/28	G48453
				ICAP METALS, EPA 6010	NA	04/26/94	NA	5/180	G48432
				VOCS - EPA 8260	NA	04/25/94	NA	4/14	G48437
				SVOCS - EPA 8270/3540 (SOX)	04/23/94	04/24/94	2/14	1/40	G48396
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/23/94	04/26/94	2/14	3/40	G48428
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/25/94	NA	4/28	G48406
WA19-1-08	CDMHNSS*3	04/19/94	04/21/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/21/94	NA	2/180	G48292
				ARSENIC - EPA 7060	NA	04/21/94	NA	2/180	G48307
				SELENIUM - EPA 7740	NA	04/21/94	NA	2/180	G48324
				MERCURY - EPA 7471 (MOD)	NA	04/21/94	NA	2/28	G48304
				ICAP METALS, EPA 6010	NA	04/22/94	NA	3/180	G48323
				VOCS - EPA 8260	NA	04/21/94	NA	2/14	G48315
				SVOCS - EPA 8270/3540 (SOX)	04/21/94	04/22/94	2/14	1/40	G48389
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/21/94	04/23/94	2/14	2/40	G48370
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/22/94	NA	3/28	G48314
WA19-2-07	CDMHNSS*4	04/20/94	04/21/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	1/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/21/94	NA	1/180	G48292
				ARSENIC - EPA 7060	NA	04/21/94	NA	1/180	G48307
				SELENIUM - EPA 7740	NA	04/21/94	NA	1/180	G48324
				MERCURY - EPA 7471 (MOD)	NA	04/21/94	NA	1/28	G48304
				ICAP METALS, EPA 6010	NA	04/22/94	NA	2/180	G48323
				VOCS - EPA 8260	NA	04/21/94	NA	1/14	G48315
				SVOCS - EPA 8270/3540 (SOX)	04/21/94	04/22/94	1/14	1/40	G48389
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/21/94	04/23/94	1/14	2/40	G48370
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/22/94	NA	2/28	G48314
WA19-3-05	CDMHNSS*5	04/20/94	04/22/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/22/94	NA	2/180	G48332
				ARSENIC - EPA 7060	NA	04/24/94	NA	4/180	G48393
				SELENIUM - EPA 7740	NA	04/25/94	NA	5/180	G48394
				MERCURY - EPA 7471 (MOD)	NA	04/25/94	NA	5/28	G48388

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				ICAP METALS, EPA 6010	NA	04/25/94	NA	5/180	G48391
				VOCS - EPA 8260	NA	04/22/94	NA	2/14	G48371
				SVOCS - EPA 8270/3540 (SOX)	04/22/94	04/24/94	2/14	2/40	G48390
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/22/94	04/25/94	2/14	3/40	G48401
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/25/94	NA	5/28	G48406
WA19-4-05	CDMHNSS*6	04/20/94	04/22/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/22/94	NA	2/180	G48332
				ARSENIC - EPA 7060	NA	04/24/94	NA	4/180	G48393
				SELENIUM - EPA 7740	NA	04/25/94	NA	5/180	G48394
				MERCURY - EPA 7471 (MOD)	NA	04/25/94	NA	5/28	G48388
				ICAP METALS, EPA 6010	NA	04/25/94	NA	5/180	G48391
				VOCS - EPA 8260	NA	04/22/94	NA	2/14	G48371
				SVOCS - EPA 8270/3540 (SOX)	04/22/94	04/24/94	2/14	2/40	G48390
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/22/94	04/25/94	2/14	3/40	G48401
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/25/94	NA	5/28	G48406
WA20-1-04	CDMHNSS*1	04/19/94	04/21/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/21/94	NA	2/180	G48292
				ARSENIC - EPA 7060	NA	04/21/94	NA	2/180	G48307
				SELENIUM - EPA 7740	NA	04/21/94	NA	2/180	G48324
				MERCURY - EPA 7471 (MOD)	NA	04/21/94	NA	2/28	G48304
				ICAP METALS, EPA 6010	NA	04/22/94	NA	3/180	G48323
				VOCS - EPA 8260	NA	04/21/94	NA	2/14	G48315
				SVOCS - EPA 8270/3540 (SOX)	04/21/94	04/22/94	2/14	1/40	G48389
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/21/94	04/23/94	2/14	2/40	G48370
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/22/94	NA	3/28	G48314
WA20-2-06	CDMHNSS*2	04/19/94	04/21/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	04/21/94	NA	2/180	G48292
				ARSENIC - EPA 7060	NA	04/21/94	NA	2/180	G48307
				SELENIUM - EPA 7740	NA	04/21/94	NA	2/180	G48324
				MERCURY - EPA 7471 (MOD)	NA	04/21/94	NA	2/28	G48304
				ICAP METALS, EPA 6010	NA	04/22/94	NA	3/180	G48323
				VOCS - EPA 8260	NA	04/21/94	NA	2/14	G48315
				SVOCS - EPA 8270/3540 (SOX)	04/21/94	04/22/94	2/14	1/40	G48389
				OCPS/PCBS - EPA 8080/3540 (SOX)	04/21/94	04/23/94	2/14	2/40	G48370
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	04/22/94	NA	3/28	G48314
EBG1-1-02	CDMHNSS*24	05/03/94	05/05/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/05/94	NA	2/180	G48778
				ARSENIC - EPA 7060	NA	05/06/94	NA	3/180	G48832
				SELENIUM - EPA 7740	NA	05/05/94	NA	2/180	G48830
				MERCURY - EPA 7471 (MOD)	NA	05/06/94	NA	3/28	G48828
				ICAP METALS, EPA 6010	NA	05/06/94	NA	3/180	G48819
				VOCS - EPA 8260	NA	05/06/94	NA	3/14	G48887
				SVOCS - EPA 8270/3540 (SOX)	05/05/94	05/06/94	2/14	1/40	G48857
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/05/94	05/08/94	2/14	3/40	G48837
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/06/94	NA	3/28	G48892
WBG2-1-02	CDMHNSS*26	05/03/94	05/05/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/05/94	NA	2/180	G48778
				ARSENIC - EPA 7060	NA	05/06/94	NA	3/180	G48832
				SELENIUM - EPA 7740	NA	05/05/94	NA	2/180	G48830
				MERCURY - EPA 7471 (MOD)	NA	05/06/94	NA	3/28	G48828
				ICAP METALS, EPA 6010	NA	05/06/94	NA	3/180	G48819

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				VOCS - EPA 8260	NA	05/06/94	NA	3/14	G48887
				SVOCS - EPA 8270/3540 (SOX)	05/05/94	05/06/94	2/14	1/40	G48857
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/05/94	05/08/94	2/14	3/40	G48837
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/06/94	NA	3/28	G48892
WBG2-2-02	CDMHNSS*27	05/03/94	05/05/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/05/94	NA	2/180	G48778
				ARSENIC - EPA 7060	NA	05/06/94	NA	3/180	G48832
				SELENIUM - EPA 7740	NA	05/05/94	NA	2/180	G48830
				MERCURY - EPA 7471 (MOD)	NA	05/06/94	NA	3/28	G48828
				ICAP METALS, EPA 6010	NA	05/06/94	NA	3/180	G48819
				VOCS - EPA 8260	NA	05/06/94	NA	3/14	G48887
				SVOCS - EPA 8270/3540 (SOX)	05/05/94	05/06/94	2/14	1/40	G48857
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/05/94	05/08/94	2/14	3/40	G48837
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/06/94	NA	3/28	G48892
WBG3-1-02	CDMHNSS*31	05/04/94	05/06/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/06/94	NA	2/180	G48815
				ARSENIC - EPA 7060	NA	05/09/94	NA	5/180	G48918
				SELENIUM - EPA 7740	NA	05/09/94	NA	5/180	G48873
				MERCURY - EPA 7471 (MOD)	NA	05/10/94	NA	6/28	G48905
				ICAP METALS, EPA 6010	NA	05/09/94	NA	5/180	G48889
				VOCS - EPA 8260	NA	05/09/94	NA	5/14	G49000
				SVOCS - EPA 8270/3540 (SOX)	05/06/94	05/09/94	2/14	3/40	G48891
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/06/94	05/10/94	2/14	4/40	G48847
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/09/94	NA	5/28	G48928
OCS1-1-00	CDMHNSS*23	05/03/94	05/04/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	1/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/04/94	NA	1/180	G48753
				ARSENIC - EPA 7060	NA	05/04/94	NA	1/180	G48771
				SELENIUM - EPA 7740	NA	05/04/94	NA	1/180	G48804
				MERCURY - EPA 7471 (MOD)	NA	05/04/94	NA	1/28	G48760
				ICAP METALS, EPA 6010	NA	05/05/94	NA	2/180	G48783
				VOCS - EPA 8260	NA	05/04/94	NA	1/14	G48853
				SVOCS - EPA 8270/3540 (SOX)	05/03/94	05/05/94	0/14	2/40	G48825
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/04/94	05/08/94	1/14	4/40	G48835
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/05/94	NA	2/28	G48781
ESV1-1-01	CDMHNSS*25	05/03/94	05/05/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/05/94	NA	2/180	G48778
				ARSENIC - EPA 7060	NA	05/06/94	NA	3/180	G48832
				SELENIUM - EPA 7740	NA	05/05/94	NA	2/180	G48830
				MERCURY - EPA 7471 (MOD)	NA	05/06/94	NA	3/28	G48828
				ICAP METALS, EPA 6010	NA	05/06/94	NA	3/180	G48819
				VOCS - EPA 8260	NA	05/06/94	NA	3/14	G48887
				SVOCS - EPA 8270/3540 (SOX)	05/05/94	05/06/94	2/14	1/40	G48857
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/05/94	05/08/94	2/14	3/40	G48837
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/06/94	NA	3/28	G48892
WSV2-1-01	CDMHNSS*30	05/04/94	05/06/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	2/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/06/94	NA	2/180	G48815
				ARSENIC - EPA 7060	NA	05/09/94	NA	5/180	G48918
				SELENIUM - EPA 7740	NA	05/09/94	NA	5/180	G48873
				MERCURY - EPA 7471 (MOD)	NA	05/10/94	NA	6/28	G48905
				ICAP METALS, EPA 6010	NA	05/09/94	NA	5/180	G48889
				VOAS - CLP SOW OLM01.8	NA	05/06/94	NA	2/14	G48933
				SVOCS - CLP SOW OLM01.8	05/06/94	05/09/94	2/14	3/40	G48916

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				OCPS/PCBS - CLP SOW OLM01.8	05/06/94	05/09/94	2/14	3/40	G49096
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/09/94	NA	5/28	G48928
EWC1-1-00	CDMHNSS*32	05/05/94	05/06/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	1/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/06/94	NA	1/180	G48815
				ARSENIC - EPA 7060	NA	05/09/94	NA	4/180	G48918
				SELENIUM - EPA 7740	NA	05/09/94	NA	4/180	G48873
				MERCURY - EPA 7471 (MOD)	NA	05/10/94	NA	5/28	G48905
				ICAP METALS, EPA 6010	NA	05/09/94	NA	4/180	G48889
				VOCS - EPA 8260	NA	05/09/94	NA	4/14	G49000
				SVOCS - EPA 8270/3540 (SOX)	05/06/94	05/10/94	1/14	4/40	G48891
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/06/94	05/10/94	1/14	4/40	G48847
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/09/94	NA	4/28	G48928
WWC2-1-00	CDMHNSS*33	05/05/94	05/06/94	SCREEN, ALPHA/BETA	NA	05/10/94	NA	1/2	G48925
				PERCENT MOISTURE - ASTM D2216	NA	05/06/94	NA	1/180	G48815
				ARSENIC - EPA 7060	NA	05/09/94	NA	4/180	G48918
				SELENIUM - EPA 7740	NA	05/09/94	NA	4/180	G48873
				MERCURY - EPA 7471 (MOD)	NA	05/10/94	NA	5/28	G48905
				ICAP METALS, EPA 6010	NA	05/09/94	NA	4/180	G48889
				VOCS - EPA 8260	NA	05/09/94	NA	4/14	G49000
				SVOCS - EPA 8270/3540 (SOX)	05/06/94	05/10/94	1/14	4/40	G48891
				OCPS/PCBS - EPA 8080/3540 (SOX)	05/06/94	05/10/94	1/14	4/40	G48847
				HYDROCARBONS,PETROL-SW3550/E418.1	NA	05/09/94	NA	4/28	G48928

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SAMPLE DATE AND CROSS REFERENCE REPORT FOR CDM - HANFORD NORTH SLOPE LABORATORY ANALYSES

CDM SAMPLE ID	LABORATORY SAMPLE ID	DATE COLLECT	DATE RECEIVED	ANALYSIS DESCRIPTION	DATE EXTRACTED	DATE ANALYZED	DAYS, ACTUAL/HOLD TIME DAYS TO EXTRACTION	DAYS TO ANALYSIS	ESE BATCH
WA05-1-EB1	CDMHNSW*1	04/23/94	04/26/94	ARSENIC - EPA 7060	NA	04/27/94	NA	4/180	G48511
				SELENIUM - EPA 7740	NA	04/27/94	NA	4/180	G48512
				MERCURY - EPA 7470	NA	04/27/94	NA	4/28	G48474
				ICAP METALS - EPA 6010	NA	04/27/94	NA	4/180	G48491
				VOCS - EPA 8260	NA	04/26/94	NA	3/14	G48483
				SVOCS - EPA 8270/3520 (CLL)	04/26/94	05/01/94	3/7	5/40	G48568
				OCPS/PCBS - EPA 8080/3520 (CLL)	04/26/94	04/28/94	3/7	2/40	G48520
				TRPH - EPA 418.1	NA	04/28/94	NA	5/28	G48587
WA05-1-TB1	CDMHNSW*2	04/25/94	04/26/94	VOCS - EPA 8260	NA	04/26/94	NA	1/14	G48483
WBG3-1-TB2	CDMHNSW*4	05/04/94	05/06/94	VOCS - EPA 8260	NA	05/06/94	NA	2/14	G48856
WSV2-1-EB2	CDMHNSW*11	05/09/94	05/10/94	ARSENIC - EPA 7060	NA	05/11/94	NA	2/180	G49080
				SELENIUM - EPA 7740	NA	05/12/94	NA	3/180	G49082
				MERCURY - EPA 7470	NA	05/11/94	NA	2/28	G49076
				ICAP METALS - EPA 6010	NA	05/11/94	NA	2/180	G49069
				SVOCS - EPA 8270/3520 (CLL)	05/10/94	05/12/94	1/7	2/40	G49125
				OCPS/PCBS - EPA 8080/3520 (CLL)	05/10/94	05/12/94	1/7	2/40	G49097
				TRPH - EPA 418.1	NA	05/10/94	NA	1/28	G49060
EWW1-1-00	CDMHNSW*13	05/13/94	05/14/94	ARSENIC - EPA 7060	NA	05/16/94	NA	3/180	G49193
				SELENIUM - EPA 7740	NA	05/16/94	NA	3/180	G49189
				MERCURY - EPA 7470	NA	05/16/94	NA	3/28	G49181
				ICAP METALS - EPA 6010	NA	05/16/94	NA	3/180	G49164
				SVOCS - EPA 8270/3520 (CLL)	05/14/94	05/16/94	1/7	2/40	G49230
				OCPS/PCBS - EPA 8080/3520 (CLL)	NA	NA	NA	NA	NA
				TRPH - EPA 418.1	NA	05/16/94	NA	3/28	G49240

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Analytical Data

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Soils Data

Sorted on Site ID

Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL PAGE 1
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		EA01-1-10	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10	WA04-1-05	WA04-2-12	WA04-3-20	WA04-4-08	WA05-1-04	WA05-2-03	WA05-3-04	WA07-1-01
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	22	34	35	36	37	38	15	16	28	29	12	13	14	10
DATE		05/02/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94	04/25/94	04/25/94	05/04/94	05/04/94	04/23/94	04/25/94	04/25/94	04/22/94
TIME		11:15	12:54	13:30	08:40	09:00	10:55	13:15	14:00	08:25	10:50	16:00	09:00	09:10	15:45
SITE #	96274 0	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L
CHAIN OF CUSTODY #	96793 0	10	17	17	19	19	19	7	7	13	13	3	7	7	3
SCREEN,GR. ALPHA, (ESTIMATE)NCI/KG-WET	96636 R	2.0	25.4	<2.0	22.9	<2.0	21.9	45.8	<2.0	<2.0	2.8	11.8	29.2	43.6	18.5
SCREEN,GR. BETA, (ESTIMATE)NCI/KG-WET	96637 R	35.0	16.0	21.2	34.1	18.9	23.3	27.0	<6.0	31.8	26.6	17.0	37.6	8.1	12.6
MOISTURE %WET WT	70320 I	8.9	4.4	4.2	5.4	4.9	4.4	3.8	4.5	2.6	4.9	2.8	3.2	5.4	3.3
HYDROCARBONS,PETROL MG/KG-DRY	98233 AISON	4920	437	428	<8.84	<8.79	<8.74	2040	381	<8.58	82.0	<8.60	128	<8.84	125
ARSENIC MG/KG-DRY	1003 7060-G	8.12	5.42	5.54	7.97	7.75	7.42	5.02	3.96	1.44	4.00	2.54	1.89	4.68	3.68
SELENIUM MG/KG-DRY	1148 7740-G	0.514	<0.255	0.340	<0.258	<0.257	<0.255	<0.255	<0.257	<0.255	<0.241	<0.256	<0.256	<0.249	<0.258
MERCURY MG/KG-DRY	71921 7471M-G	0.124	<0.097	<0.091	<0.105	<0.103	<0.086	<0.100	<0.101	<0.097	<0.099	<0.103	<0.100	<0.103	<0.103
BARIUM MG/KG-DRY	1008 6010-G	119	125	107	151	139	131	112	101	79.9	109	82.3	82.9	125	96.0
CADMIUM MG/KG-DRY	1028 6010-G	<0.547	<0.510	<0.513	<0.516	<0.513	<0.509	<0.511	<0.504	<0.490	<0.510	<0.512	<0.513	<0.524	<0.517
CHROMIUM MG/KG-DRY	1029 6010-G	15.4	14.9	16.0	20.3	21.3	17.0	10.4	9.20	10.3	10.2	9.22	14.6	7.67	11.3
LEAD MG/KG-DRY	1052 6010-G	11.2	24.5	23.6	13.9	12.1	10.6	15.6	12.0	<9.80	<10.2	<10.2	111	<10.5	39.6
SILVER MG/KG-DRY	1078 6010-G	<0.547	<0.510	<0.513	<0.516	<0.513	<0.509	<0.511	<0.504	<0.490	<0.510	<0.512	<0.513	<0.524	<0.517
ACETONE UG/KG-DRY	75059 8260-G	<11	<10.0	<10.0	<11	<11	<10.0	<10.0	11	<10.0	<11	<10.0	<10.0	<11	<10.0
BENZENE UG/KG-DRY	34237 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
BROMODICHLOROMETHANE UG/KG-DRY	34330 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
BROMOFORM UG/KG-DRY	34290 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
BROMOMETHANE UG/KG-DRY	34416 8260-G	<11	<10.0	<10.0	<11	<11	<10.0	<10.0	<10.0	<10.0	<11	<10.0	<10.0	<11	<10.0
CARBON DISULFIDE UG/KG-DRY	78544 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2

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Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S PARAMETERS	STORET	EA01-1-10	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10	WA04-1-05	WA04-2-12	WA04-3-20	WA04-4-08	WA05-1-04	WA05-2-03	WA05-3-04	WA07-1-01
UNITS	METHOD	CDMHNSS 22	CDMHNSS 34	CDMHNSS 35	CDMHNSS 36	CDMHNSS 37	CDMHNSS 38	CDMHNSS 15	CDMHNSS 16	CDMHNSS 28	CDMHNSS 29	CDMHNSS 12	CDMHNSS 13	CDMHNSS 14	CDMHNSS 10
DATE		05/02/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94	04/25/94	04/25/94	05/04/94	05/04/94	04/23/94	04/25/94	04/25/94	04/22/94
TIME		11:15	12:54	13:30	08:40	09:00	10:55	13:15	14:00	08:25	10:50	16:00	09:00	09:10	15:45
CARBON TETRACHLORIDE UG/KG-DRY	34299 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
CHLOROBENZENE UG/KG-DRY	34304 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
CHLOROETHANE UG/KG-DRY	34314 8260-G	<11	<10.0	<10.0	<11	<11	<10.0	<10.0	<10.0	<10.0	<11	<10.0	<10.0	<11	<10.0
2-CHLOROETHYLVINYL-ETHER UG/KG-DRY	34579 8260-G	<5.5	<5.2	<5.2	NRQ	<5.3	<5.2	<5.2	<5.2	<5.1	NRQ	<5.1	<5.2	<5.3	<5.2
CHLOROFORM UG/KG-DRY	34318 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
CHLOROMETHANE UG/KG-DRY	34421 8260-G	<11	<10.0	<10.0	<11	<11	<10.0	<10.0	<10.0	<10.0	<11	<10.0	<10.0	<11	<10.0
DIBROMOCHLOROMETHANE UG/KG-DRY	34309 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
1,1-DICHLOROETHANE UG/KG-DRY	34499 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
1,2-DICHLOROETHANE UG/KG-DRY	34534 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
1,1-DICHLOROETHYLENE UG/KG-DRY	34504 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
1,2-DICHLOROETHENE(TOTAL) UG/KG-DRY	96464 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
1,2-DICHLOROPROPANE UG/KG-DRY	34544 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
CIS-1,3-DICHLORO-PROPENE UG/KG-DRY	34702 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
TRANS-1,3-DICHLORO-PROPENE UG/KG-DRY	34697 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
ETHYLBENZENE UG/KG-DRY	34374 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
2-HEXANONE UG/KG-DRY	75166 8260-G	<11	<10.0	<10.0	<11	<11	<10.0	<10.0	<10.0	<10.0	<11	<10.0	<10.0	<11	<10.0
METHYLENE CHLORIDE UG/KG-DRY	34426 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
METHYL ETHYL KETONE UG/KG-DRY	75078 8260-G	<11	<10.0	<10.0	<11	<11	<10.0	<10.0	<10.0	<10.0	<11	<10.0	<10.0	<11	<10.0
METHYLISOBUTYLKETONE UG/KG-DRY	75169 8260-G	<11	<10.0	<10.0	<11	<11	<10.0	<10.0	<10.0	<10.0	<11	<10.0	<10.0	<11	<10.0
STYRENE UG/KG-DRY	75192 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
1,1,2,2-TETRACHLORO-ETHANE UG/KG-DRY	34519 8260-G	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2

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Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S / PARAMETERS	STORET	EA01-1-10	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10	WA04-1-05	WA04-2-12	WA04-3-20	WA04-4-08	WA05-1-04	WA05-2-03	WA05-3-04	WA07-1-01
		CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	22	34	35	36	37	38	15	16	28	29	12	13	14	10
DATE		05/02/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94	04/25/94	04/25/94	05/04/94	05/04/94	04/23/94	04/25/94	04/25/94	04/22/94
TIME		11:15	12:54	13:30	08:40	09:00	10:55	13:15	14:00	08:25	10:50	16:00	09:00	09:10	15:45
TETRACHLOROETHENE	34478	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
UG/KG-DRY	8260-G														
TOLUENE	34483	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
UG/KG-DRY	8260-G														
1,1,1-TRICHL'ETHANE	34509	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
UG/KG-DRY	8260-G														
1,1,2-TRICHL'ETHANE	34514	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	9.5	<5.3	<5.2
UG/KG-DRY	8260-G														
TRICHLOROETHENE	34487	<5.5	<5.2	<5.2	<11	<5.3	<5.2	<5.2	<5.2	<5.1	<11	<5.1	<5.2	<5.3	<5.2
UG/KG-DRY	8260-G														
VINYL CHLORIDE	34495	<11	<10.0	<10.0	<11	<11	<10.0	<10.0	<10.0	<10.0	<11	<10.0	<10.0	<11	<10.0
UG/KG-DRY	8260-G														
VINYL ACETATE	98583	<11	<10.0	<10.0	NRQ	<11	<10.0	<10.0	<10.0	<10.0	NRQ	<10.0	<10.0	<11	<10.0
UG/KG-DRY	8260-G														
XYLENE,TOTAL	45510	<5.5	<5.2	<5.2	NRQ	<5.3	<5.2	<5.2	<5.2	<5.1	NRQ	<5.1	<5.2	<5.3	<5.2
UG/KG-DRY	8260-G														
ACENAPHTHENE	34208	<770	<73	220	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
ACENAPHTHYLENE	34203	<1600	<160	<160	<350	<160	<160	<160	<160	<150	<350	<150	<1500	<160	<160
UG/KG-DRY	8270/3540-G														
ANTHRACENE	34223	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
BENZYL ALCOHOL	75212	<1500	<150	<150	NRQ	<150	<150	<150	<150	<140	NRQ	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														
BENZOIC ACID	75315	<30000	<2800	<2800	NRQ	<2800	<2800	<2800	<2800	<2800	NRQ	<2800	<28000	<2900	<2800
UG/KG-DRY	8270/3540-G														
BENZO(A)ANTHRACENE	34529	<1100	<100	<100	<350	<110	<100	<100	<100	<100	<350	<100	<1000	<110	<100
UG/KG-DRY	8270/3540-G														
BENZO(B)FLUORANTHENE	34233	<1100	<100	<100	<350	<110	<100	<100	<100	<100	<350	<100	<1000	<110	<100
UG/KG-DRY	8270/3540-G														
BENZO(K)FLUORANTHENE	34245	<1100	<100	<100	<350	<110	<100	<100	<100	<100	<350	<100	<1000	<110	<100
UG/KG-DRY	8270/3540-G														
BENZO(A)PYRENE	34250	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														
BENZO(GHI)PERYLENE	34524	<1800	<170	<170	<350	<170	<170	<170	<170	<160	<350	<160	<1700	<170	<170
UG/KG-DRY	8270/3540-G														
BUTYLBENZYLPHTHALATE	34295	<1100	<100	<100	<350	<110	<100	<100	<100	<100	<350	<100	<1000	<110	<100
UG/KG-DRY	8270/3540-G														
BIS(2-CHLOROETHYL)	34276	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
ETHER UG/KG-DRY	8270/3540-G														
BIS(2-CHLOROETHOXY)	34281	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
METHANE UG/KG-DRY	8270/3540-G														

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Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		EA01-1-10	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10	WA04-1-05	WA04-2-12	WA04-3-20	WA04-4-08	WA05-1-04	WA05-2-03	WA05-3-04	WA07-1-01
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	22	34	35	36	37	38	15	16	28	29	12	13	14	10
DATE		05/02/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94	04/25/94	04/25/94	05/04/94	05/04/94	04/23/94	04/25/94	04/25/94	04/22/94
TIME		11:15	12:54	13:30	08:40	09:00	10:55	13:15	14:00	08:25	10:50	16:00	09:00	09:10	15:45
BIS(2-ETHYLHEXYL)	39102	<1100	<100	<100	<350	<110	<100	<100	160	<100	<350	<100	<1000	<110	<100
PHTHALATEUG/KG-DRY	8270/3540-G														
BIS(2-CHL'ISOPROPYL)	34286	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
ETHER UG/KG-DRY	8270/3540-G														
4-BROMOPHENYL PHENYL	34639	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
ETHER UG/KG-DRY	8270/3540-G														
4-CHLOROANILINE	78867	<3300	<310	<310	<350	<320	<310	<310	<310	<310	<350	<310	<3100	<320	<310
UG/KG-DRY	8270/3540-G														
2-CHLORONAPHTHALENE	34584	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
2-CHLOROPHENOL	34589	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														
4-CHLORO-3-METHYL	34455	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
PHENOL UG/KG-DRY	8270/3540-G														
4-CHLOROPHENYLPHENYL	34644	<1100	<100	<100	<350	<110	<100	<100	<100	<100	<350	<100	<1000	<110	<100
ETHER UG/KG-DRY	8270/3540-G														
CHRYSENE	34323	<1100	<100	<100	<350	<110	<100	<100	<100	<100	<350	<100	<1000	<110	<100
UG/KG-DRY	8270/3540-G														
DIBEN(A,H)ANTH'CENE	34559	<1800	<170	<170	<350	<170	<170	<170	<170	<160	<350	<160	<1700	<170	<170
UG/KG-DRY	8270/3540-G														
DIBENZOFURAN	75647	<1300	<130	<130	<350	<130	<130	380	<130	<120	<350	<120	<1200	<130	<120
UG/KG-DRY	8270/3540-G														
DI-N-BUTYL PHTHALATE	39112	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
1,3-DICHLOROBENZENE	34569	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
1,2-DICHLOROBENZENE	34539	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
1,4-DICHLOROBENZENE	34574	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
3,3-DICHL'BENZIDINE	34634	<5500	<520	<520	<350	<530	<520	<520	<520	<510	<350	<510	<5200	<530	<520
UG/KG-DRY	8270/3540-G														
2,4-DICHLOROPHENOL	34604	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														
DIETHYL PHTHALATE	34339	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
2,4-DIMETHYLPHENOL	34609	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														
DIMETHYL PHTHALATE	34344	<1100	<100	<100	<350	<110	<100	<100	<100	<100	<350	<100	<1000	<110	<100
UG/KG-DRY	8270/3540-G														
2,4-DINITROPHENOL	34619	<14000	<1400	<1400	<850	<1400	<1400	<1400	<1400	<1300	<840	<1300	<13000	<1400	<1300
UG/KG-DRY	8270/3540-G														

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Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL PAGE 5
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		EA01-1-10	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10	WA04-1-05	WA04-2-12	WA04-3-20	WA04-4-08	WA05-1-04	WA05-2-03	WA05-3-04	WA07-1-01
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	22	34	35	36	37	38	15	16	28	29	12	13	14	10
DATE		05/02/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94	04/25/94	04/25/94	05/04/94	05/04/94	04/23/94	04/25/94	04/25/94	04/22/94
TIME		11:15	12:54	13:30	08:40	09:00	10:55	13:15	14:00	08:25	10:50	16:00	09:00	09:10	15:45
2,4-DINITROTOLUENE	34614	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														
2,6-DINITROTOLUENE	34629	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														
DI-N-OCTYL PHTHALATE	34599	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														
FLUORANTHENE	34379	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
FLUORENE	34384	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
HEXACHLOROBENZENE	39701	<1100	<100	<100	<350	<110	<100	<100	<100	<100	<350	<100	<1000	<110	<100
UG/KG-DRY	8270/3540-G														
HEXACHLOROBUTADIENE	39705	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														
HEXACHLOROCYCLOPENTA	34389	<11000	<1000	<1000	<350	<1100	<1000	<1000	<1000	<1000	<350	<1000	<10000	<1100	<1000
DIENE UG/KG-DRY	8270/3540-G														
HEXACHLOROETHANE	34399	<1100	<100	<100	<350	<110	<100	<100	<100	<100	<350	<100	<1000	<110	<100
UG/KG-DRY	8270/3540-G														
INDENO(1,2,3-CD)	34406	<1800	<170	<170	<350	<170	<170	<170	<170	<160	<350	<160	<1700	<170	<170
PYRENE UG/KG-DRY	8270/3540-G														
ISOPHORONE	34411	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
2-METHYLNAPHTHALENE	78868	77000	3800	2900	<350	<110	<100	3600	<100	<100	<350	<100	<1000	<110	<100
UG/KG-DRY	8270/3540-G														
2-METHYL-4,6-DINITRO	34660	<7400	<700	<700	<850	<700	<700	<700	<700	<690	<840	<690	<6900	<710	<690
PHENOL UG/KG-DRY	8270/3540-G														
2-METHYLPHENOL	78872	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														
4-METHYLPHENOL	78803	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														
NAPHTHALENE	34445	3200	<73	<73	<350	<74	<73	960	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
2-NITROANILINE	98588	<3300	<310	<310	<850	<320	<310	<310	<310	<310	<840	<310	<3100	<320	<310
UG/KG-DRY	8270/3540-G														
3-NITROANILINE	78869	<3300	<310	<310	<850	<320	<310	<310	<310	<310	<840	<310	<3100	<320	<310
UG/KG-DRY	8270/3540-G														
4-NITROANILINE	78870	<4400	<420	<420	<850	<420	<420	<420	<420	<410	<840	<410	<4100	<420	<410
UG/KG-DRY	8270/3540-G														
NITROBENZENE	34450	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
2-NITROPHENOL	34594	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														

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Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL PAGE 6
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		EA01-1-10	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10	WA04-1-05	WA04-2-12	WA04-3-20	WA04-4-08	WA05-1-04	WA05-2-03	WA05-3-04	WA07-1-01
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	22	34	35	36	37	38	15	16	28	29	12	13	14	10
DATE		05/02/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94	04/25/94	04/25/94	05/04/94	05/04/94	04/23/94	04/25/94	04/25/94	04/22/94
TIME		11:15	12:54	13:30	08:40	09:00	10:55	13:15	14:00	08:25	10:50	16:00	09:00	09:10	15:45
4-NITROPHENOL	34649	<5500	<520	<520	<850	<530	<520	<520	<520	<510	<840	<510	<5200	<530	<520
UG/KG-DRY	8270/3540-G														
N-NITROSODI-N-PROPYL	34431	<1100	<100	<100	<350	<110	<100	<100	<100	<100	<350	<100	<1000	<110	<100
AMINE UG/KG-DRY	8270/3540-G														
N-NITROSODIPHE'AMINE	34436	<770	<73	<73	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
PENTACHLOROPHENOL	39061	<2700	<260	<260	<850	<260	<260	<260	<260	<260	<840	<260	<2600	<260	<260
UG/KG-DRY	8270/3540-G														
PHENANTHRENE	34464	16000	2700	2500	<350	<74	<73	570	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
PHENOL	34695	<1500	<150	<150	<350	<150	<150	<150	<150	<140	<350	<140	<1400	<150	<140
UG/KG-DRY	8270/3540-G														
PYRENE	34472	5400	750	850	<350	<74	<73	<73	<73	<72	<350	<72	<720	<74	<72
UG/KG-DRY	8270/3540-G														
1,2,4-TRICH'BENZENE	34554	<1100	<100	<100	<350	<110	<100	<100	<100	<100	<350	<100	<1000	<110	<100
UG/KG-DRY	8270/3540-G														
2,4,6-TRICH'PHENOL	34624	<1900	<180	<180	<350	<180	<180	<180	<180	<170	<350	<170	<1800	<180	<180
UG/KG-DRY	8270/3540-G														
2,4,5-TRICH'PHENOL	98587	<1900	<180	<180	<850	<180	<180	<180	<180	<170	<840	<170	<1800	<180	<180
UG/KG-DRY	8270/3540-G														
ALDRIN	39333	<0.732	52.7	54.9	<1.76	<0.701	<0.697	<0.832	<0.838	<0.890	<1.75	<0.686	<0.826	<0.846	<0.689
UG/KG-DRY	8080/3540-G														
BHC,A	39076	<0.732	<0.697	<0.696	<1.76	<0.701	<0.697	<0.693	<0.698	<0.684	<1.75	<0.686	<0.689	<0.705	<0.689
UG/KG-DRY	8080/3540-G														
BHC,B	34257	<0.732	<0.697	<0.696	<1.76	<0.701	<0.697	<0.693	<0.698	<1.30	<1.75	<0.686	<0.689	<0.705	<0.689
UG/KG-DRY	8080/3540-G														
BHC,D	34262	<0.732	<0.697	<0.696	<1.76	<0.701	<0.697	<0.693	<0.698	<0.684	<1.75	<0.686	<0.689	<0.705	<0.689
UG/KG-DRY	8080/3540-G														
BHC,G(LINDANE)	39783	<0.732	<0.697	<0.696	<1.76	<0.701	<0.697	<0.693	<0.698	<0.684	<1.75	<0.686	<0.689	<0.705	<0.689
UG/KG-DRY	8080/3540-G														
CHLORDANE	39351	<3.66	<3.49	<3.48	NRQ	<3.51	<3.49	<3.47	<3.49	<3.42	NRQ	<3.43	<3.44	<3.52	37700
UG/KG-DRY	8080/3540-G														
DDD,PP'	39311	786000	269000	276000	4.78	<0.701	<0.697	31.0	115	<0.726	<3.51	<0.686	<0.689	<0.705	42700
UG/KG-DRY	8080/3540-G														
DDE,PP'	39321	44400	22100	28000	16.6	<0.701	0.862	8.92	79.0	<0.684	<3.51	3.18	5.23	<0.705	3330
UG/KG-DRY	8080/3540-G														
DDT,PP'	39301	2080000	695000	611000	184	4.31	7.16	67.8	284	<0.726	<3.51	6.72	5.54	<0.846	254000
UG/KG-DRY	8080/3540-G														
DIELDRIN	39383	<0.732	1980	2630	8.34	<0.701	0.856	<0.693	<0.698	<0.821	<3.51	<0.686	<0.689	<0.705	<0.689
UG/KG-DRY	8080/3540-G														
ENDOSULFAN,A	34364	<0.732	<0.697	<0.696	<1.76	<0.701	<0.697	<0.693	<0.698	<0.684	<1.75	<0.686	<0.689	<0.705	<0.689
UG/KG-DRY	8080/3540-G														

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		EA01-1-10	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10	WA04-1-05	WA04-2-12	WA04-3-20	WA04-4-08	WA05-1-04	WA05-2-03	WA05-3-04	WA07-1-01
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	22	34	35	36	37	38	15	16	28	29	12	13	14	10
DATE		05/02/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94	04/25/94	04/25/94	05/04/94	05/04/94	04/23/94	04/25/94	04/25/94	04/22/94
TIME		11:15	12:54	13:30	08:40	09:00	10:55	13:15	14:00	08:25	10:50	16:00	09:00	09:10	15:45
ENDOSULFAN,B	34359	<0.732	<0.697	<0.696	<3.52	<0.701	<0.697	<0.693	<0.698	<0.684	<3.51	<0.686	<0.689	<0.705	<0.689
UG/KG-DRY	8080/3540-G														
ENDOSULFAN SULFATE	34354	<0.732	<0.697	<0.696	<3.52	<0.701	<0.697	<0.693	<0.698	<0.684	<3.51	<0.686	<0.689	<0.705	<0.689
UG/KG-DRY	8080/3540-G														
ENDRIN	39393	<0.805	<0.697	<0.696	<3.52	<0.701	<0.697	<0.693	<0.698	<0.719	<3.51	<0.686	<0.689	<0.705	<0.689
UG/KG-DRY	8080/3540-G														
ENDRIN ALDEHYDE	34369	<0.732	<0.697	<0.696	<3.52	<0.701	<0.697	<0.693	<0.698	<0.684	<3.51	<0.686	<0.689	<0.705	<0.689
UG/KG-DRY	8080/3540-G														
HEPTACHLOR	39413	<0.732	<0.697	<0.696	<1.76	<0.701	<0.697	<0.693	<0.698	<0.684	<1.75	<0.686	<0.689	<0.705	<0.689
UG/KG-DRY	8080/3540-G														
HEPTACHLOR EPOXIDE	39423	<0.732	<0.697	<0.696	<1.76	<0.701	<0.697	<0.693	<0.698	<0.684	<1.75	<0.686	<0.689	<0.705	<0.689
UG/KG-DRY	8080/3540-G														
METHOXYCHLOR	39481	<0.805	<0.697	<0.696	<17.6	<0.701	<0.697	<1.25	<1.26	<1.10	<17.5	<0.686	<1.24	<1.27	<0.689
UG/KG-DRY	8080/3540-G														
TOXAPHENE	39403	<73.2	<69.7	<69.6	<176	<70.1	<69.7	<69.3	<69.8	<68.4	<175	<68.6	<68.9	<70.5	<68.9
UG/KG-DRY	8080/3540-G														
PCB-1016	39514	<14.6	<13.9	<13.9	<35.2	<14.0	<13.9	<13.9	<14.0	<13.7	<35.1	<13.7	<13.8	<14.1	<13.8
UG/KG-DRY	8080/3540-G														
PCB-1221	39491	<14.6	<13.9	<13.9	<70.5	<14.0	<13.9	<13.9	<14.0	<13.7	<70.1	<13.7	<13.8	<14.1	<13.8
UG/KG-DRY	8080/3540-G														
PCB-1232	39495	<14.6	<13.9	<13.9	<35.2	<14.0	<13.9	<13.9	<14.0	<13.7	<35.1	<13.7	<13.8	<14.1	<13.8
UG/KG-DRY	8080/3540-G														
PCB-1242	39499	<14.6	<13.9	<13.9	<35.2	<14.0	<13.9	<13.9	<14.0	<13.7	<35.1	<13.7	<13.8	<14.1	<13.8
UG/KG-DRY	8080/3540-G														
PCB-1248	39503	<14.6	<13.9	<13.9	<35.2	<14.0	<13.9	<13.9	<14.0	<13.7	<35.1	<13.7	<13.8	<14.1	<13.8
UG/KG-DRY	8080/3540-G														
PCB-1254	39507	<14.6	<13.9	<13.9	<35.2	<14.0	<13.9	<13.9	<14.0	<13.7	<35.1	0.0	<13.8	<14.1	0.0
UG/KG-DRY	8080/3540-G														
PCB-1260	39511	<14.6	<13.9	<13.9	<35.2	<14.0	<13.9	<13.9	<14.0	<13.7	<35.1	<13.7	<13.8	<14.1	<13.8
UG/KG-DRY	8080/3540-G														

Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL PAGE 8
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA07-2-05	EA11-1-07	EA12-1-10	EA12-2-12	EA14-1-01	EA14-2-01	WA16-1-02	WA16-2-03	WA17-1-03	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA20-1-04
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	11	21	19	20	17	18	8	9	7	3	4	5	6	1
DATE		04/23/94	04/29/94	04/27/94	04/27/94	04/27/94	04/27/94	04/22/94	04/22/94	04/21/94	04/19/94	04/20/94	04/20/94	04/20/94	04/19/94
TIME		10:00	08:22	14:00	15:10	11:50	12:10	09:30	10:05	15:45	16:48	08:40	13:45	14:15	13:25
SITE #	96274 0	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L
CHAIN OF CUSTODY #	96793 0	3	10	8	8	8	8	4	4	4	1	1	2	2	1
SCREEN,GR. ALPHA, (ESTIMATE)NCI/KG-WET	96636 R	27.0	11.8	<2.0	<2.0	14.0	<2.0	NA	NA	NA	<2.0	18.7	11.0	<2.0	20.9
SCREEN,GR. BETA, (ESTIMATE)NCI/KG-WET	96637 R	22.8	21.9	<6.0	23.1	25.5	<6.0	NA	NA	NA	<6.0	16.4	17.2	27.7	29.2
MOISTURE %WET WT	70320 I	5.4	3.8	3.8	4.2	3.8	3.6	4.5	5.5	14.8	4.8	3.0	3.0	3.0	2.7
HYDROCARBONS,PETROL MG/KG-DRY	98233 AISON	<8.84	43.2	165000	<8.73	<8.69	<8.67	3610	<8.85	85900	<8.99	5850	<8.62	<8.62	<8.79
ARSENIC MG/KG-DRY	1003 7060-G	8.20	7.67	5.84	6.94	6.88	6.98	4.32	8.18	41.6	3.21	2.86	3.75	3.52	2.26
SELENIUM MG/KG-DRY	1148 7740-G	<0.263	<0.258	<0.259	<0.259	<0.258	<0.258	<0.259	<0.260	<0.290	<0.252	<0.254	<0.244	<0.245	<0.252
MERCURY MG/KG-DRY	71921 7471M-G	<0.104	<0.101	<0.101	<0.101	<0.104	<0.102	<0.092	<0.094	0.116	<0.104	<0.102	<0.093	<0.093	<0.099
BARIUM MG/KG-DRY	1008 6010-G	147	120	119	145	105	111	90.9	105	91.9	87.4	96.2	100.0	107	80.0
CADMIUM MG/KG-DRY	1028 6010-G	<0.524	<0.516	<0.519	<0.521	<0.518	<0.515	0.671	<0.527	<0.583	<0.510	1.38	<0.513	<0.500	<0.503
CHROMIUM MG/KG-DRY	1029 6010-G	18.2	19.1	13.8	15.6	14.1	14.9	25.0	10.7	14.5	9.02	7.66	7.45	5.56	6.40
LEAD MG/KG-DRY	1052 6010-G	11.9	<10.3	36.0	13.8	10.4	<10.3	217	<10.5	<11.7	<10.2	61.8	<10.3	11.6	<10.1
SILVER MG/KG-DRY	1078 6010-G	<0.524	<0.516	1.05	<0.521	<0.518	<0.515	<0.523	<0.527	<0.583	<0.510	<0.509	<0.513	<0.500	<0.503
ACETONE UG/KG-DRY	75059 8260-G	<11	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<12	<11	<10.0	<10.0	<10.0	<10.0
BENZENE UG/KG-DRY	34237 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
BROMODICHLOROMETHANE UG/KG-DRY	34330 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
BROMOFORM UG/KG-DRY	34290 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
BROMOMETHANE UG/KG-DRY	34416 8260-G	<11	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<12	<11	<10.0	<10.0	<10.0	<10.0
CARBON DISULFIDE UG/KG-DRY	78544 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1

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Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S / PARAMETERS / UNITS	STORET / METHOD	WA07-2-05 CDMHNSS 11	EA11-1-07 CDMHNSS 21	EA12-1-10 CDMHNSS 19	EA12-2-12 CDMHNSS 20	EA14-1-01 CDMHNSS 17	EA14-2-01 CDMHNSS 18	WA16-1-02 CDMHNSS 8	WA16-2-03 CDMHNSS 9	WA17-1-03 CDMHNSS 7	WA19-1-08 CDMHNSS 3	WA19-2-07 CDMHNSS 4	WA19-3-05 CDMHNSS 5	WA19-4-05 CDMHNSS 6	WA20-1-04 CDMHNSS 1
DATE		04/23/94	04/29/94	04/27/94	04/27/94	04/27/94	04/27/94	04/22/94	04/22/94	04/21/94	04/19/94	04/20/94	04/20/94	04/20/94	04/19/94
TIME		10:00	08:22	14:00	15:10	11:50	12:10	09:30	10:05	15:45	16:48	08:40	13:45	14:15	13:25
CARBON TETRACHLORIDE UG/KG-DRY	34299 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
CHLOROBENZENE UG/KG-DRY	34304 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
CHLOROETHANE UG/KG-DRY	34314 8260-G	<11	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<12	<11	<10.0	<10.0	<10.0	<10.0
2-CHLOROETHYLVINYL-ETHER UG/KG-DRY	34579 8260-G	<5.3	NRQ	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
CHLOROFORM UG/KG-DRY	34318 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
CHLOROMETHANE UG/KG-DRY	34421 8260-G	<11	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<12	<11	<10.0	<10.0	<10.0	<10.0
DIBROMOCHLOROMETHANE UG/KG-DRY	34309 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
1,1-DICHLOROETHANE UG/KG-DRY	34499 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
1,2-DICHLOROETHANE UG/KG-DRY	34534 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
1,1-DICHLOROETHYLENE UG/KG-DRY	34504 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
1,2-DICHLOROETHENE(TOTAL) UG/KG-DRY	96464 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
1,2-DICHLOROPROPANE UG/KG-DRY	34544 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
CIS-1,3-DICHLORO-PROPENE UG/KG-DRY	34702 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
TRANS-1,3-DICHLORO-PROPENE UG/KG-DRY	34697 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
ETHYLBENZENE UG/KG-DRY	34374 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
2-HEXANONE UG/KG-DRY	75166 8260-G	<11	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<12	<11	<10.0	<10.0	<10.0	<10.0
METHYLENE CHLORIDE UG/KG-DRY	34426 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	7.0
METHYL ETHYL KETONE UG/KG-DRY	75078 8260-G	<11	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<12	<11	<10.0	<10.0	<10.0	<10.0
METHYLISOBUTYLKETONE UG/KG-DRY	75169 8260-G	<11	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	78	<11	<10.0	<10.0	<10.0	<10.0
STYRENE UG/KG-DRY	75192 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
1,1,2,2-TETRACHLORO-ETHANE UG/KG-DRY	34519 8260-G	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1

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Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA07-2-05	EA11-1-07	EA12-1-10	EA12-2-12	EA14-1-01	EA14-2-01	WA16-1-02	WA16-2-03	WA17-1-03	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA20-1-04
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	11	21	19	20	17	18	8	9	7	3	4	5	6	1
DATE		04/23/94	04/29/94	04/27/94	04/27/94	04/27/94	04/27/94	04/22/94	04/22/94	04/21/94	04/19/94	04/20/94	04/20/94	04/20/94	04/19/94
TIME		10:00	08:22	14:00	15:10	11:50	12:10	09:30	10:05	15:45	16:48	08:40	13:45	14:15	13:25
TETRACHLOROETHENE	34478	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
UG/KG-DRY	8260-G														
TOLUENE	34483	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
UG/KG-DRY	8260-G														
1,1,1-TRICHL'ETHANE	34509	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
UG/KG-DRY	8260-G														
1,1,2-TRICHL'ETHANE	34514	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
UG/KG-DRY	8260-G														
TRICHLOROETHENE	34487	<5.3	<10.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	<5.2	<5.1
UG/KG-DRY	8260-G														
VINYL CHLORIDE	34495	<11	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<12	<11	<10.0	<10.0	<10.0	<10.0
UG/KG-DRY	8260-G														
VINYL ACETATE	98583	<11	NRQ	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<12	<11	<10.0	<10.0	<10.0	<10.0
UG/KG-DRY	8260-G														
XYLENE,TOTAL	45510	<5.3	NRQ	<5.2	<5.2	<5.2	<5.2	<5.2	<5.3	<5.9	<5.3	<5.2	<5.2	5.2	<5.1
UG/KG-DRY	8260-G														
ACENAPHTHENE	34208	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
ACENAPHTHYLENE	34203	<160	<340	<160	<160	<160	<160	<16000	<160	<18000	<160	<3100	<150	<150	<150
UG/KG-DRY	8270/3540-G														
ANTHRACENE	34223	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
BENZYL ALCOHOL	75212	<150	NRQ	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
UG/KG-DRY	8270/3540-G														
BENZOIC ACID	75315	<2900	NRQ	<2800	<2800	<2800	<2800	<280000	<2900	<320000	<2800	<56000	<2800	<2800	<2800
UG/KG-DRY	8270/3540-G														
BENZO(A)ANTHRACENE	34529	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
UG/KG-DRY	8270/3540-G														
BENZO(B)FLUORANTHENE	34233	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
UG/KG-DRY	8270/3540-G														
BENZO(K)FLUORANTHENE	34245	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
UG/KG-DRY	8270/3540-G														
BENZO(A)PYRENE	34250	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
UG/KG-DRY	8270/3540-G														
BENZO(GHI)PERYLENE	34524	<170	<340	<170	<170	<170	<170	<17000	<170	<19000	<170	<3300	<160	<160	<160
UG/KG-DRY	8270/3540-G														
BUTYLBENZYLPHTHALATE	34295	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
UG/KG-DRY	8270/3540-G														
BIS(2-CHLOROETHYL)	34276	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
ETHER UG/KG-DRY	8270/3540-G														
BIS(2-CHLOROETHOXY)	34281	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
METHANE UG/KG-DRY	8270/3540-G														

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA07-2-05	EA11-1-07	EA12-1-10	EA12-2-12	EA14-1-01	EA14-2-01	WA16-1-02	WA16-2-03	WA17-1-03	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA20-1-04
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	11	21	19	20	17	18	8	9	7	3	4	5	6	1
DATE		04/23/94	04/29/94	04/27/94	04/27/94	04/27/94	04/27/94	04/22/94	04/22/94	04/21/94	04/19/94	04/20/94	04/20/94	04/20/94	04/19/94
TIME		10:00	08:22	14:00	15:10	11:50	12:10	09:30	10:05	15:45	16:48	08:40	13:45	14:15	13:25
BIS(2-ETHYLHEXYL)	39102	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
PHTHALATEUG/KG-DRY	8270/3540-G														
BIS(2-CHL'ISOPROPYL)	34286	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
ETHER UG/KG-DRY	8270/3540-G														
4-BROMOPHENYL PHENYL	34639	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
ETHER UG/KG-DRY	8270/3540-G														
4-CHLOROANILINE	78867	<320	<340	<310	<310	<310	<310	<31000	<320	<35000	<320	<6200	<310	<310	<310
UG/KG-DRY	8270/3540-G														
2-CHLORONAPHTHALENE	34584	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
2-CHLOROPHENOL	34589	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
UG/KG-DRY	8270/3540-G														
4-CHLORO-3-METHYL	34455	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
PHENOL UG/KG-DRY	8270/3540-G														
4-CHLOROPHENYLPHENYL	34644	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
ETHER UG/KG-DRY	8270/3540-G														
CHRYSENE	34323	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
UG/KG-DRY	8270/3540-G														
DIBEN(A,H)ANTH'CENE	34559	<170	<340	<170	<170	<170	<170	<17000	<170	<19000	<170	<3300	<160	<160	<160
UG/KG-DRY	8270/3540-G														
DIBENZOFURAN	75647	<130	<340	<120	<130	<120	<120	<13000	<130	<14000	<130	<2500	<120	<120	<120
UG/KG-DRY	8270/3540-G														
DI-N-BUTYL PHTHALATE	39112	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
1,3-DICHLOROBENZENE	34569	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
1,2-DICHLOROBENZENE	34539	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
1,4-DICHLOROBENZENE	34574	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
3,3-DICHL'BENZIDINE	34634	<530	<340	<520	<520	<520	<520	<52000	<530	<59000	<530	<10000	<520	<520	<510
UG/KG-DRY	8270/3540-G														
2,4-DICHLOROPHENOL	34604	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
UG/KG-DRY	8270/3540-G														
DIETHYL PHTHALATE	34339	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
2,4-DIMETHYLPHENOL	34609	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
UG/KG-DRY	8270/3540-G														
DIMETHYL PHTHALATE	34344	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
UG/KG-DRY	8270/3540-G														
2,4-DINITROPHENOL	34619	<1400	<830	<1400	<1400	<1400	<1300	<140000	<1400	<150000	<1400	<27000	<1300	<1300	<1300
UG/KG-DRY	8270/3540-G														

000024

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA07-2-05	EA11-1-07	EA12-1-10	EA12-2-12	EA14-1-01	EA14-2-01	WA16-1-02	WA16-2-03	WA17-1-03	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA20-1-04
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	11	21	19	20	17	18	8	9	7	3	4	5	6	1
DATE		04/23/94	04/29/94	04/27/94	04/27/94	04/27/94	04/27/94	04/22/94	04/22/94	04/21/94	04/19/94	04/20/94	04/20/94	04/20/94	04/19/94
TIME		10:00	08:22	14:00	15:10	11:50	12:10	09:30	10:05	15:45	16:48	08:40	13:45	14:15	13:25
2,4-DINITROTOLUENE	34614	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
UG/KG-DRY	8270/3540-G														
2,6-DINITROTOLUENE	34629	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
UG/KG-DRY	8270/3540-G														
DI-N-OCTYL PHTHALATE	34599	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
UG/KG-DRY	8270/3540-G														
FLUORANTHENE	34379	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
FLUORENE	34384	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
HEXACHLOROBENZENE	39701	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
UG/KG-DRY	8270/3540-G														
HEXACHLOROBUTADIENE	39705	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
UG/KG-DRY	8270/3540-G														
HEXACHLOROCYCLOPENTA	34389	<1100	<340	<1000	<1000	<1000	<1000	<100000	<1100	<120000	<1100	<21000	<1000	<1000	<1000
DIENE UG/KG-DRY	8270/3540-G														
HEXACHLOROETHANE	34399	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
UG/KG-DRY	8270/3540-G														
INDENO(1,2,3-CD)	34406	<170	<340	<170	<170	<170	<170	<17000	<170	<19000	<170	<3300	<160	<160	<160
PYRENE UG/KG-DRY	8270/3540-G														
ISOPHORONE	34411	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
2-METHYLNAPHTHALENE	78868	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
UG/KG-DRY	8270/3540-G														
2-METHYL-4,6-DINITRO	34660	<710	<830	<700	<700	<700	<700	<70000	<710	<79000	<700	<14000	<690	<690	<690
PHENOL UG/KG-DRY	8270/3540-G														
2-METHYLPHENOL	78872	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
UG/KG-DRY	8270/3540-G														
4-METHYLPHENOL	78803	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
UG/KG-DRY	8270/3540-G														
NAPHTHALENE	34445	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
2-NITROANILINE	98588	<320	<830	<310	<310	<310	<310	<31000	<320	<35000	<320	<6200	<310	<310	<310
UG/KG-DRY	8270/3540-G														
3-NITROANILINE	78869	<320	<830	<310	<310	<310	<310	<31000	<320	<35000	<320	<6200	<310	<310	<310
UG/KG-DRY	8270/3540-G														
4-NITROANILINE	78870	<420	<830	<420	<420	<420	<410	<42000	<420	<47000	<420	<8200	<410	<410	<410
UG/KG-DRY	8270/3540-G														
NITROBENZENE	34450	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
UG/KG-DRY	8270/3540-G														
2-NITROPHENOL	34594	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
UG/KG-DRY	8270/3540-G														

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S			WA07-2-05	EA11-1-07	EA12-1-10	EA12-2-12	EA14-1-01	EA14-2-01	WA16-1-02	WA16-2-03	WA17-1-03	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA20-1-04
PARAMETERS		STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
	UNITS	METHOD	11	21	19	20	17	18	8	9	7	3	4	5	6	1
DATE			04/23/94	04/29/94	04/27/94	04/27/94	04/27/94	04/27/94	04/22/94	04/22/94	04/21/94	04/19/94	04/20/94	04/20/94	04/20/94	04/19/94
TIME			10:00	08:22	14:00	15:10	11:50	12:10	09:30	10:05	15:45	16:48	08:40	13:45	14:15	13:25
4-NITROPHENOL		34649	<530	<830	<520	<520	<520	<520	<52000	<530	<59000	<530	<10000	<520	<520	<510
	UG/KG-DRY	8270/3540-G														
N-NITROSODI-N-PROPYL		34431	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
AMINE	UG/KG-DRY	8270/3540-G														
N-NITROSODIPHE'AMINE		34436	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
	UG/KG-DRY	8270/3540-G														
PENTACHLOROPHENOL		39061	<260	<830	<260	<260	<260	<260	<26000	<260	<29000	<260	<5200	<260	<260	<260
	UG/KG-DRY	8270/3540-G														
PHENANTHRENE		34464	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
	UG/KG-DRY	8270/3540-G														
PHENOL		34695	<150	<340	<150	<150	<150	<150	<15000	<150	<16000	<150	<2900	<140	<140	<140
	UG/KG-DRY	8270/3540-G														
PYRENE		34472	<74	<340	<73	<73	<73	<73	<7300	<74	<8200	<74	<1400	<72	<72	<72
	UG/KG-DRY	8270/3540-G														
1,2,4-TRICH'BENZENE		34554	<110	<340	<100	<100	<100	<100	<10000	<110	<12000	<110	<2100	<100	<100	<100
	UG/KG-DRY	8270/3540-G														
2,4,6-TRICH'PHENOL		34624	<180	<340	<180	<180	<180	<180	<18000	<180	<20000	<180	<3500	<180	<180	<170
	UG/KG-DRY	8270/3540-G														
2,4,5-TRICH'PHENOL		98587	<180	<830	<180	<180	<180	<180	<18000	<180	<20000	<180	<3500	<180	<180	<170
	UG/KG-DRY	8270/3540-G														
ALDRIN		39333	<0.705	<1.73	<0.693	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	<0.687	<0.687	<0.687	<0.685
	UG/KG-DRY	8080/3540-G														
BHC,A		39076	<0.705	<1.73	<0.693	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	<0.687	<0.687	<0.687	<0.685
	UG/KG-DRY	8080/3540-G														
BHC,B		34257	<0.705	<1.73	<0.693	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	<0.687	<0.687	<0.687	<0.685
	UG/KG-DRY	8080/3540-G														
BHC,D		34262	<0.705	<1.73	<0.693	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	<0.687	<0.687	<0.687	<0.685
	UG/KG-DRY	8080/3540-G														
BHC,G(LINDANE)		39783	<0.705	<1.73	5.38	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	<0.687	<0.687	<0.687	<0.685
	UG/KG-DRY	8080/3540-G														
CHLORDANE		39351	<3.52	NRQ	<3.47	<3.48	<3.47	<3.46	<3.49	<3.53	<39.1	<3.50	<3.44	<3.44	<3.44	<3.43
	UG/KG-DRY	8080/3540-G														
DDD,PP'		39311	<0.705	<3.47	2780	<0.696	3790	1630	<0.698	<0.705	<7.82	<0.700	54.7	<0.687	<0.687	62.7
	UG/KG-DRY	8080/3540-G														
DDE,PP'		39321	<0.705	<3.47	3650	146	2130	1870	34.4	1.59	83.1	<0.700	37.4	74.0	85.5	298
	UG/KG-DRY	8080/3540-G														
DDT,PP'		39301	<0.705	<3.47	5910	167	11600	5600	39.0	<0.705	879	<0.700	177	64.6	78.6	125
	UG/KG-DRY	8080/3540-G														
DIELDRIN		39383	<0.705	<3.47	64.3	3.53	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	<0.687	<0.687	<0.687	<0.685
	UG/KG-DRY	8080/3540-G														
ENDOSULFAN,A		34364	<0.705	<1.73	<0.693	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	<0.687	<0.687	<0.687	<0.685
	UG/KG-DRY	8080/3540-G														

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA07-2-05	EA11-1-07	EA12-1-10	EA12-2-12	EA14-1-01	EA14-2-01	WA16-1-02	WA16-2-03	WA17-1-03	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA20-1-04
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	11	21	19	20	17	18	8	9	7	3	4	5	6	1
DATE		04/23/94	04/29/94	04/27/94	04/27/94	04/27/94	04/27/94	04/22/94	04/22/94	04/21/94	04/19/94	04/20/94	04/20/94	04/20/94	04/19/94
TIME		10:00	08:22	14:00	15:10	11:50	12:10	09:30	10:05	15:45	16:48	08:40	13:45	14:15	13:25
ENDOSULFAN,B	34359	<0.705	<3.47	<0.693	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	4.52	<0.687	<0.687	<0.685
UG/KG-DRY	8080/3540-G														
ENDOSULFAN SULFATE	34354	<0.705	<3.47	<0.693	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	<0.687	<0.687	<0.687	<0.685
UG/KG-DRY	8080/3540-G														
ENDRIN	39393	<0.705	<3.47	<0.693	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	<0.687	<0.687	<0.687	<0.685
UG/KG-DRY	8080/3540-G														
ENDRIN ALDEHYDE	34369	<0.705	<3.47	<0.693	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	<0.687	<0.687	<0.687	<0.685
UG/KG-DRY	8080/3540-G														
HEPTACHLOR	39413	<0.705	<1.73	<0.693	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	<0.687	<0.687	<0.687	<0.685
UG/KG-DRY	8080/3540-G														
HEPTACHLOR EPOXIDE	39423	<0.705	<1.73	<0.693	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	<0.687	<0.687	<0.687	<0.685
UG/KG-DRY	8080/3540-G														
METHOXYCHLOR	39481	<0.705	<17.3	<0.693	<0.696	<0.693	<0.692	<0.698	<0.705	<7.82	<0.700	1.92	<0.687	<0.687	<0.685
UG/KG-DRY	8080/3540-G														
TOXAPHENE	39403	<70.5	<173	<69.3	<69.6	<69.3	<69.2	<69.8	<70.5	<782	<70.0	<68.7	<68.7	<68.7	<68.5
UG/KG-DRY	8080/3540-G														
PCB-1016	39514	<14.1	<34.7	<13.9	<13.9	<13.9	<13.8	<14.0	<14.1	<15.6	<14.0	<13.7	<13.7	<13.7	<13.7
UG/KG-DRY	8080/3540-G														
PCB-1221	39491	<14.1	<69.3	<13.9	<13.9	<13.9	<13.8	<14.0	<14.1	<15.6	<14.0	<13.7	<13.7	<13.7	<13.7
UG/KG-DRY	8080/3540-G														
PCB-1232	39495	<14.1	<34.7	<13.9	<13.9	<13.9	<13.8	<14.0	<14.1	<15.6	<14.0	<13.7	<13.7	<13.7	<13.7
UG/KG-DRY	8080/3540-G														
PCB-1242	39499	<14.1	<34.7	<13.9	<13.9	<13.9	<13.8	<14.0	<14.1	<15.6	<14.0	<13.7	<13.7	<13.7	<13.7
UG/KG-DRY	8080/3540-G														
PCB-1248	39503	<14.1	<34.7	<13.9	<13.9	<13.9	<13.8	<14.0	<14.1	<15.6	<14.0	344	<13.7	<13.7	<13.7
UG/KG-DRY	8080/3540-G														
PCB-1254	39507	0.0	<34.7	<13.9	<13.9	<13.9	<13.8	<14.0	<14.1	<15.6	<14.0	344	<13.7	<13.7	<13.7
UG/KG-DRY	8080/3540-G														
PCB-1260	39511	<14.1	<34.7	<13.9	<13.9	<13.9	<13.8	<14.0	<14.1	<15.6	<14.0	<13.7	<13.7	<13.7	<13.7
UG/KG-DRY	8080/3540-G														

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Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA20-2-06	EBG1-1-02	WBG2-1-02	WBG2-2-02	WBG3-1-02	OCS1-1-00	ESV1-1-01	WSV2-1-01	EWC1-1-00	WWC2-1-00
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	2	24	26	27	31	23	25	30	32	33
DATE		04/19/94	05/03/94	05/03/94	05/03/94	05/04/94	05/03/94	05/03/94	05/04/94	05/05/94	05/05/94
TIME		14:10	11:30	15:00	15:25	14:30	08:15	12:35	13:05	10:35	12:20
SITE #	96274	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L
	0										
CHAIN OF CUSTODY	96793	1	12	12	12	13	11	12	13	15	15
#	0										
SCREEN,GR. ALPHA,	96636	<2.0	9.2	<2.0	<2.0	<2.0	24.3	10.9	<2.0	<2.0	4.2
(ESTIMATE)NCI/KG-WET	R										
SCREEN,GR. BETA,	96637	<6.0	17.3	<6.0	<6.0	21.0	24.5	25.9	<6.0	<6.0	10.4
(ESTIMATE)NCI/KG-WET	R										
MOISTURE	70320	3.2	6.5	5.8	6.0	6.1	5.5	2.8	2.4	2.3	2.1
%WET WT	I										
HYDROCARBONS,PETROL	98233	<8.84	<8.94	<8.87	<8.89	<8.90	<8.85	<8.60	<8.57	255	57.2
MG/KG-DRY	AISON										
ARSENIC	1003	3.01	6.71	4.71	5.11	3.07	4.87	3.89	1.64	3.64	1.82
MG/KG-DRY	7060-G										
SELENIUM	1148	<0.251	<0.262	<0.259	<0.260	<0.263	<0.260	<0.253	<0.254	<0.255	<0.255
MG/KG-DRY	7740-G										
MERCURY	71921	<0.100	<0.098	<0.091	<0.099	<0.093	<0.104	<0.096	<0.096	<0.099	<0.093
MG/KG-DRY	7471M-G										
BARIUM	1008	61.9	120	114	117	133	96.2	73.2	87.9	142	171
MG/KG-DRY	6010-G										
CADMIUM	1028	<0.507	<0.531	<0.521	<0.523	<0.511	<0.521	<0.509	<0.492	1.55	1.77
MG/KG-DRY	6010-G										
CHROMIUM	1029	6.21	7.15	7.69	7.47	7.66	11.3	8.15	6.44	9.42	56.4
MG/KG-DRY	6010-G										
LEAD	1052	<10.1	<10.6	<10.4	<10.5	<10.2	<10.4	27.2	<9.84	1140	1810
MG/KG-DRY	6010-G										
SILVER	1078	<0.507	<0.531	<0.521	<0.523	<0.511	<0.521	<0.509	<0.492	<0.507	<0.504
MG/KG-DRY	6010-G										
ACETONE	75059	<10.0	<11	<11	<11	<11	<11	<10.0	<10.0	<10.0	<10.0
UG/KG-DRY	8260-G										
BENZENE	34237	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
UG/KG-DRY	8260-G										
BROMODICHLOROMETHANE	34330	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
UG/KG-DRY	8260-G										
BROMOFORM	34290	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
UG/KG-DRY	8260-G										
BROMOMETHANE	34416	<10.0	<11	<11	<11	<11	<11	<10.0	<10.0	<10.0	<10.0
UG/KG-DRY	8260-G										
CARBON DISULFIDE	78544	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
UG/KG-DRY	8260-G										

9513355.1122

000028

PROJECT NUMBER 19440220 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA20-2-06	EBG1-1-02	WBG2-1-02	WBG2-2-02	WBG3-1-02	OCS1-1-00	ESV1-1-01	WSV2-1-01	EWC1-1-00	WWC2-1-00
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	2	24	26	27	31	23	25	30	32	33
DATE		04/19/94	05/03/94	05/03/94	05/03/94	05/04/94	05/03/94	05/03/94	05/04/94	05/05/94	05/05/94
TIME		14:10	11:30	15:00	15:25	14:30	08:15	12:35	13:05	10:35	12:20
CARBON TETRACHLORIDE UG/KG-DRY	34299 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
CHLOROBENZENE UG/KG-DRY	34304 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
CHLOROETHANE UG/KG-DRY	34314 8260-G	<10.0	<11	<11	<11	<11	<11	<10.0	<10.0	<10.0	<10.0
2-CHLOROETHYLVINYL-ETHER UG/KG-DRY	34579 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	NRQ	<5.1	<5.1
CHLOROFORM UG/KG-DRY	34318 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
CHLOROMETHANE UG/KG-DRY	34421 8260-G	<10.0	<11	<11	<11	<11	<11	<10.0	<10.0	<10.0	<10.0
DIBROMOCHLOROMETHANE UG/KG-DRY	34309 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
1,1-DICHLOROETHANE UG/KG-DRY	34499 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
1,2-DICHLOROETHANE UG/KG-DRY	34534 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
1,1-DICHLOROETHYLENE UG/KG-DRY	34504 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
1,2-DICHLOROETHENE(TOTAL) UG/KG-DRY	96464 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
1,2-DICHLOROPROPANE UG/KG-DRY	34544 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
CIS-1,3-DICHLORO-PROPENE UG/KG-DRY	34702 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
TRANS-1,3-DICHLORO-PROPENE UG/KG-DRY	34697 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
ETHYLBENZENE UG/KG-DRY	34374 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
2-HEXANONE UG/KG-DRY	75166 8260-G	<10.0	<11	<11	<11	<11	<11	<10.0	<10.0	<10.0	<10.0
METHYLENE CHLORIDE UG/KG-DRY	34426 8260-G	7.1	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
METHYL ETHYL KETONE UG/KG-DRY	75078 8260-G	<10.0	<11	<11	<11	<11	<11	<10.0	<10.0	<10.0	<10.0
METHYLISOBUTYLKETONE UG/KG-DRY	75169 8260-G	<10.0	<11	<11	<11	<11	<11	<10.0	<10.0	<10.0	<10.0
STYRENE UG/KG-DRY	75192 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
1,1,2,2-TETRACHLORO-ETHANE UG/KG-DRY	34519 8260-G	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1

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0029

SAMPLE ID'S		WA20-2-06	EBG1-1-02	WBG2-1-02	WBG2-2-02	WBG3-1-02	OCS1-1-00	ESV1-1-01	WSV2-1-01	EWC1-1-00	WWC2-1-00
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	2	24	26	27	31	23	25	30	32	33
DATE		04/19/94	05/03/94	05/03/94	05/03/94	05/04/94	05/03/94	05/03/94	05/04/94	05/05/94	05/05/94
TIME		14:10	11:30	15:00	15:25	14:30	08:15	12:35	13:05	10:35	12:20
TETRACHLOROETHENE	34478	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
UG/KG-DRY	8260-G										
TOLUENE	34483	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
UG/KG-DRY	8260-G										
1,1,1-TRICHLOROETHANE	34509	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
UG/KG-DRY	8260-G										
1,1,2-TRICHLOROETHANE	34514	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
UG/KG-DRY	8260-G										
TRICHLOROETHENE	34487	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	<10.0	<5.1	<5.1
UG/KG-DRY	8260-G										
VINYL CHLORIDE	34495	<10.0	<11	<11	<11	<11	<11	<10.0	<10.0	<10.0	<10.0
UG/KG-DRY	8260-G										
VINYL ACETATE	98583	<10.0	<11	<11	<11	<11	<11	<10.0	NRQ	<10.0	<10.0
UG/KG-DRY	8260-G										
XYLENE,TOTAL	45510	<5.2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.1	NRQ	<5.1	220
UG/KG-DRY	8260-G										
ACENAPHTHENE	34208	<72	<75	<74	<74	<75	<74	<72	<340	9700	<72
UG/KG-DRY	8270/3540-G										
ACENAPHTHYLENE	34203	<150	<160	<160	<160	<160	<160	<150	<340	<3100	<150
UG/KG-DRY	8270/3540-G										
ANTHRACENE	34223	<72	<75	<74	<74	<75	<74	<72	<340	14000	<72
UG/KG-DRY	8270/3540-G										
BENZYL ALCOHOL	75212	<140	<150	<150	<150	<150	<150	<140	NRQ	<2900	<140
UG/KG-DRY	8270/3540-G										
BENZOIC ACID	75315	<2800	<2900	<2900	<2900	<2900	<2900	<2800	NRQ	<55000	<2800
UG/KG-DRY	8270/3540-G										
BENZO(A)ANTHRACENE	34529	<100	<110	<110	<110	<110	<110	<100	<340	8300	<100
UG/KG-DRY	8270/3540-G										
BENZO(B)FLUORANTHENE	34233	<100	<110	<110	<110	<110	<110	<100	<340	6800	<100
UG/KG-DRY	8270/3540-G										
BENZO(K)FLUORANTHENE	34245	<100	<110	<110	<110	<110	<110	<100	<340	2300	<100
UG/KG-DRY	8270/3540-G										
BENZO(A)PYRENE	34250	<140	<150	<150	<150	<150	<150	<140	<340	5300	<140
UG/KG-DRY	8270/3540-G										
BENZO(GHI)PERYLENE	34524	<170	<170	<170	<170	<170	<170	<160	<340	<3300	<160
UG/KG-DRY	8270/3540-G										
BUTYLBENZYLPHTHALATE	34295	<100	<110	<110	<110	<110	<110	<100	<340	<2000	<100
UG/KG-DRY	8270/3540-G										
BIS(2-CHLOROETHYL)	34276	<72	<75	<74	<74	<75	<74	<72	<340	<1400	<72
ETHER UG/KG-DRY	8270/3540-G										
BIS(2-CHLOROETHOXY)	34281	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
METHANE UG/KG-DRY	8270/3540-G										

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Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA20-2-06	EBG1-1-02	WBG2-1-02	WBG2-2-02	WBG3-1-02	OCS1-1-00	ESV1-1-01	WSV2-1-01	EWC1-1-00	WWC2-1-00
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	2	24	26	27	31	23	25	30	32	33
DATE		04/19/94	05/03/94	05/03/94	05/03/94	05/04/94	05/03/94	05/03/94	05/04/94	05/05/94	05/05/94
TIME		14:10	11:30	15:00	15:25	14:30	08:15	12:35	13:05	10:35	12:20
BIS(2-ETHYLHEXYL) PHTHALATE UG/KG-DRY	39102 8270/3540-G	<100	<110	<110	120	4500	<110	<100	<340	<2000	1400
BIS(2-CHL'ISOPROPYL) ETHER UG/KG-DRY	34286 8270/3540-G	<72	<75	<74	<74	<75	<74	<72	<340	<1400	<72
4-BROMOPHENYL PHENYL ETHER UG/KG-DRY	34639 8270/3540-G	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
4-CHLOROANILINE UG/KG-DRY	78867 8270/3540-G	<310	<320	<320	<320	<320	<320	<310	<340	<6100	<310
2-CHLORONAPHTHALENE UG/KG-DRY	34584 8270/3540-G	<72	<75	<74	<74	<75	<74	<72	<340	<1400	<72
2-CHLOROPHENOL UG/KG-DRY	34589 8270/3540-G	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
4-CHLORO-3-METHYL PHENOL UG/KG-DRY	34455 8270/3540-G	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
4-CHLOROPHENYLPHENYL ETHER UG/KG-DRY	34644 8270/3540-G	<100	<110	<110	<110	<110	<110	<100	<340	<2000	<100
CHRYSENE UG/KG-DRY	34323 8270/3540-G	<100	<110	<110	<110	<110	<110	<100	<340	8600	<100
DIBEN(A,H)ANTH'CENE UG/KG-DRY	34559 8270/3540-G	<170	<170	<170	<170	<170	<170	<160	<340	<3300	<160
DIBENZOFURAN UG/KG-DRY	75647 8270/3540-G	<120	<130	<130	<130	<130	<130	<120	<340	8500	<120
DI-N-BUTYL PHTHALATE UG/KG-DRY	39112 8270/3540-G	<72	<75	<74	<74	<75	<74	<72	<340	<1400	530
1,3-DICHLOROBENZENE UG/KG-DRY	34569 8270/3540-G	<72	<75	<74	<74	<75	<74	<72	<340	<1400	<72
1,2-DICHLOROBENZENE UG/KG-DRY	34539 8270/3540-G	<72	<75	<74	<74	<75	<74	<72	<340	<1400	<72
1,4-DICHLOROBENZENE UG/KG-DRY	34574 8270/3540-G	<72	<75	<74	<74	<75	<74	<72	<340	<1400	<72
3,3-DICHL'BENZIDINE UG/KG-DRY	34634 8270/3540-G	<520	<530	<530	<530	<530	<530	<510	<340	<10000	<510
2,4-DICHLOROPHENOL UG/KG-DRY	34604 8270/3540-G	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
DIETHYL PHTHALATE UG/KG-DRY	34339 8270/3540-G	<72	<75	<74	<74	<75	<74	<72	<340	<1400	<72
2,4-DIMETHYLPHENOL UG/KG-DRY	34609 8270/3540-G	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
DIMETHYL PHTHALATE UG/KG-DRY	34344 8270/3540-G	<100	<110	<110	<110	<110	<110	<100	<340	<2000	<100
2,4-DINITROPHENOL UG/KG-DRY	34619 8270/3540-G	<1300	<1400	<1400	<1400	<1400	<1400	<1300	<820	<27000	<1300

9513356.1125

PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA20-2-06	EBG1-1-02	WBG2-1-02	WBG2-2-02	WBG3-1-02	OCS1-1-00	ESV1-1-01	WSV2-1-01	EWC1-1-00	WWC2-1-00
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	2	24	26	27	31	23	25	30	32	33
DATE		04/19/94	05/03/94	05/03/94	05/03/94	05/04/94	05/03/94	05/03/94	05/04/94	05/05/94	05/05/94
TIME		14:10	11:30	15:00	15:25	14:30	08:15	12:35	13:05	10:35	12:20
2,4-DINITROTOLUENE	34614	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
UG/KG-DRY	8270/3540-G										
2,6-DINITROTOLUENE	34629	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
UG/KG-DRY	8270/3540-G										
DI-N-OCTYL PHTHALATE	34599	<140	<150	<150	<150	<150	<150	<140	<340	<2900	1600
UG/KG-DRY	8270/3540-G										
FLUORANTHENE	34379	<72	<75	<74	<74	<75	<74	<72	<340	24000	<72
UG/KG-DRY	8270/3540-G										
FLUORENE	34384	<72	<75	<74	<74	<75	<74	<72	<340	14000	<72
UG/KG-DRY	8270/3540-G										
HEXACHLOROBENZENE	39701	<100	<110	<110	<110	<110	<110	<100	<340	<2000	<100
UG/KG-DRY	8270/3540-G										
HEXACHLOROBUTADIENE	39705	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
UG/KG-DRY	8270/3540-G										
HEXACHLOROCYCLOPENTA	34389	<1000	<1100	<1100	<1100	<1100	<1100	<1000	<340	<20000	<1000
DIENE UG/KG-DRY	8270/3540-G										
HEXACHLOROETHANE	34399	<100	<110	<110	<110	<110	<110	<100	<340	<2000	<100
UG/KG-DRY	8270/3540-G										
INDENO(1,2,3-CD)	34406	<170	<170	<170	<170	<170	<170	<160	<340	<3300	<160
PYRENE UG/KG-DRY	8270/3540-G										
ISOPHORONE	34411	<72	<75	<74	<74	<75	<74	<72	<340	<1400	<72
UG/KG-DRY	8270/3540-G										
2-METHYLNAPHTHALENE	78868	<100	<110	<110	<110	<110	<110	<100	<340	12000	140
UG/KG-DRY	8270/3540-G										
2-METHYL-4,6-DINITRO	34660	<690	<720	<710	<710	<710	<710	<690	<820	<14000	<680
PHENOL UG/KG-DRY	8270/3540-G										
2-METHYLPHENOL	78872	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
UG/KG-DRY	8270/3540-G										
4-METHYLPHENOL	78803	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
UG/KG-DRY	8270/3540-G										
NAPHTHALENE	34445	<72	<75	<74	<74	<75	<74	<72	<340	8000	250
UG/KG-DRY	8270/3540-G										
2-NITROANILINE	98588	<310	<320	<320	<320	<320	<320	<310	<820	<6100	<310
UG/KG-DRY	8270/3540-G										
3-NITROANILINE	78869	<310	<320	<320	<320	<320	<320	<310	<820	<6100	<310
UG/KG-DRY	8270/3540-G										
4-NITROANILINE	78870	<410	<430	<420	<430	<430	<420	<410	<820	<8200	<410
UG/KG-DRY	8270/3540-G										
NITROBENZENE	34450	<72	<75	<74	<74	<75	<74	<72	<340	<1400	<72
UG/KG-DRY	8270/3540-G										
2-NITROPHENOL	34594	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
UG/KG-DRY	8270/3540-G										

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S			WA20-2-06	EBG1-1-02	WBG2-1-02	WBG2-2-02	WBG3-1-02	OCS1-1-00	ESV1-1-01	WSV2-1-01	EWC1-1-00	WWC2-1-00
PARAMETERS		STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
	UNITS	METHOD	2	24	26	27	31	23	25	30	32	33
DATE			04/19/94	05/03/94	05/03/94	05/03/94	05/04/94	05/03/94	05/03/94	05/04/94	05/05/94	05/05/94
TIME			14:10	11:30	15:00	15:25	14:30	08:15	12:35	13:05	10:35	12:20
4-NITROPHENOL		34649	<520	<530	<530	<530	<530	<530	<510	<820	<10000	<510
	UG/KG-DRY	8270/3540-G										
N-NITROSODI-N-PROPYL		34431	<100	<110	<110	<110	<110	<110	<100	<340	<2000	<100
AMINE	UG/KG-DRY	8270/3540-G										
N-NITROSODIPHE'AMINE		34436	<72	<75	<74	<74	<75	<74	<72	<340	<1400	<72
	UG/KG-DRY	8270/3540-G										
PENTACHLOROPHENOL		39061	<260	<270	<270	<270	<270	<260	<260	<820	<5100	<260
	UG/KG-DRY	8270/3540-G										
PHENANTHRENE		34464	<72	<75	<74	<74	<75	<74	<72	<340	57000	<72
	UG/KG-DRY	8270/3540-G										
PHENOL		34695	<140	<150	<150	<150	<150	<150	<140	<340	<2900	<140
	UG/KG-DRY	8270/3540-G										
PYRENE		34472	<72	<75	<74	<74	<75	<74	<72	<340	18000	<72
	UG/KG-DRY	8270/3540-G										
1,2,4-TRICH'BENZENE		34554	<100	<110	<110	<110	<110	<110	<100	<340	<2000	<100
	UG/KG-DRY	8270/3540-G										
2,4,6-TRICH'PHENOL		34624	<180	<180	<180	<180	<180	<180	<170	<340	<3500	<170
	UG/KG-DRY	8270/3540-G										
2,4,5-TRICH'PHENOL		98587	<180	<180	<180	<180	<180	<180	<170	<820	<3500	<170
	UG/KG-DRY	8270/3540-G										
ALDRIN		39333	<0.689	<0.927	<0.920	<0.922	<0.923	<0.917	<0.892	<1.71	<0.887	<0.885
	UG/KG-DRY	8080/3540-G										
BHC,A		39076	<0.689	<0.713	<0.708	<0.709	<0.710	<0.705	<0.686	<1.71	<0.682	<0.681
	UG/KG-DRY	8080/3540-G										
BHC,B		34257	<0.689	<1.35	<1.34	<1.35	<1.35	<1.34	<1.30	<1.71	<1.30	<1.29
	UG/KG-DRY	8080/3540-G										
BHC,D		34262	<0.689	<0.713	<0.708	<0.709	<0.710	<0.705	<0.686	<1.71	<0.682	<0.681
	UG/KG-DRY	8080/3540-G										
BHC,G(LINDANE)		39783	<0.689	<0.713	<0.708	<0.709	<0.710	<0.705	<0.686	<1.71	<0.682	<0.681
	UG/KG-DRY	8080/3540-G										
CHLORDANE		39351	<3.44	<3.57	<3.54	<3.55	<3.55	<3.53	<3.43	NRQ	<3.41	<3.40
	UG/KG-DRY	8080/3540-G										
DDD,PP'		39311	<0.689	8.02	<0.750	<0.752	<0.753	<0.748	597	<3.42	150	15.1
	UG/KG-DRY	8080/3540-G										
DDE,PP'		39321	<0.689	1.57	<0.708	<0.709	<0.710	<0.705	1660	37.2	422	25.0
	UG/KG-DRY	8080/3540-G										
DDT,PP'		39301	<0.689	12.9	1.66	1.47	<0.753	<0.748	806	14.5	356	161
	UG/KG-DRY	8080/3540-G										
DIELDRIN		39383	<0.689	<0.856	<0.849	<0.851	<0.852	<0.847	<0.823	<3.42	<0.819	<0.817
	UG/KG-DRY	8080/3540-G										
ENDOSULFAN,A		34364	<0.689	<0.713	<0.708	<0.709	<0.710	<0.705	<0.686	<1.71	<0.682	<0.681
	UG/KG-DRY	8080/3540-G										

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PROJECT NUMBER 19440220 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA20-2-06	EBG1-1-02	WBG2-1-02	WBG2-2-02	WBG3-1-02	OCS1-1-00	ESV1-1-01	WSV2-1-01	EWC1-1-00	WWC2-1-00
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	2	24	26	27	31	23	25	30	32	33
DATE		04/19/94	05/03/94	05/03/94	05/03/94	05/04/94	05/03/94	05/03/94	05/04/94	05/05/94	05/05/94
TIME		14:10	11:30	15:00	15:25	14:30	08:15	12:35	13:05	10:35	12:20
ENDOSULFAN,B	34359	<0.689	<0.713	<0.708	<0.709	<0.710	<0.705	<0.686	<3.42	<0.682	<0.681
UG/KG-DRY	8080/3540-G										
ENDOSULFAN SULFATE	34354	<0.689	<0.713	<0.708	<0.709	<0.710	<0.705	<0.686	<3.42	<0.682	<0.681
UG/KG-DRY	8080/3540-G										
ENDRIN	39393	<0.689	<0.749	<0.743	<0.745	<0.745	<0.741	<0.720	<3.42	<0.716	<0.715
UG/KG-DRY	8080/3540-G										
ENDRIN ALDEHYDE	34369	<0.689	<0.713	<0.708	<0.709	<0.710	<0.705	<0.686	<3.42	<0.682	<0.681
UG/KG-DRY	8080/3540-G										
HEPTACHLOR	39413	<0.689	<0.713	<0.708	<0.709	<0.710	<0.705	<0.686	<1.71	<0.682	<0.681
UG/KG-DRY	8080/3540-G										
HEPTACHLOR EPOXIDE	39423	<0.689	<0.713	<0.708	<0.709	<0.710	<0.705	<0.686	<1.71	<0.682	<0.681
UG/KG-DRY	8080/3540-G										
METHOXYCHLOR	39481	<0.689	<1.15	<1.14	<1.14	<1.14	<1.14	<1.10	<17.1	<1.10	<1.10
UG/KG-DRY	8080/3540-G										
TOXAPHENE	39403	<68.9	<71.3	<70.8	<70.9	<71.0	<70.5	<68.6	<171	<68.2	<68.1
UG/KG-DRY	8080/3540-G										
PCB-1016	39514	<13.8	<14.3	<14.2	<14.2	<14.2	<14.1	<13.7	<34.2	<13.6	<13.6
UG/KG-DRY	8080/3540-G										
PCB-1221	39491	<13.8	<14.3	<14.2	<14.2	<14.2	<14.1	<13.7	<68.3	<13.6	<13.6
UG/KG-DRY	8080/3540-G										
PCB-1232	39495	<13.8	<14.3	<14.2	<14.2	<14.2	<14.1	<13.7	<34.2	<13.6	<13.6
UG/KG-DRY	8080/3540-G										
PCB-1242	39499	<13.8	<14.3	<14.2	<14.2	<14.2	<14.1	<13.7	<34.2	<13.6	<13.6
UG/KG-DRY	8080/3540-G										
PCB-1248	39503	<13.8	<14.3	<14.2	<14.2	<14.2	<14.1	<13.7	<34.2	<13.6	<13.6
UG/KG-DRY	8080/3540-G										
PCB-1254	39507	<13.8	<14.3	<14.2	<14.2	<14.2	<14.1	<13.7	<34.2	<13.6	<13.6
UG/KG-DRY	8080/3540-G										
PCB-1260	39511	<13.8	<14.3	<14.2	<14.2	<14.2	<14.1	<13.7	<34.2	<13.6	<13.6
UG/KG-DRY	8080/3540-G										

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Soils Data

Sorted on Collection Date

Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL PAGE 1
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S PARAMETERS	UNITS	STORET METHOD	WA20-1-04 CDMHNSS 1	WA20-2-06 CDMHNSS 2	WA19-1-08 CDMHNSS 3	WA19-2-07 CDMHNSS 4	WA19-3-05 CDMHNSS 5	WA19-4-05 CDMHNSS 6	WA17-1-03 CDMHNSS 7	WA16-1-02 CDMHNSS 8	WA16-2-03 CDMHNSS 9	WA07-1-01 CDMHNSS 10	WA07-2-05 CDMHNSS 11	WA05-1-04 CDMHNSS 12	WA05-2-03 CDMHNSS 13	WA05-3-04 CDMHNSS 14
DATE			04/19/94	04/19/94	04/19/94	04/20/94	04/20/94	04/20/94	04/21/94	04/22/94	04/22/94	04/22/94	04/23/94	04/23/94	04/25/94	04/25/94
TIME			13:25	14:10	16:48	08:40	13:45	14:15	15:45	09:30	10:05	15:45	10:00	16:00	09:00	09:10
SITE #		96274 0	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L
CHAIN OF CUSTODY #		96793 0	1	1	1	1	2	2	4	4	4	3	3	3	7	7
SCREEN,GR. ALPHA, (ESTIMATE)NCI/KG-WET		96636 R	20.9	<2.0	<2.0	18.7	11.0	<2.0	NA	NA	NA	18.5	27.0	11.8	29.2	43.6
SCREEN,GR. BETA, (ESTIMATE)NCI/KG-WET		96637 R	29.2	<6.0	<6.0	16.4	17.2	27.7	NA	NA	NA	12.6	22.8	17.0	37.6	8.1
MOISTURE	%WET WT	70320 1	2.7	3.2	4.8	3.0	3.0	3.0	14.8	4.5	5.5	3.3	5.4	2.8	3.2	5.4
HYDROCARBONS,PETROL	MG/KG-DRY	98233 AISON	<8.79	<8.84	<8.99	5850	<8.62	<8.62	85900	3610	<8.85	125	<8.84	<8.60	128	<8.84
ARSENIC	MG/KG-DRY	1003 7060-G	2.26	3.01	3.21	2.86	3.75	3.52	41.6	4.32	8.18	3.68	8.20	2.54	1.89	4.68
SELENIUM	MG/KG-DRY	1148 7740-G	<0.252	<0.251	<0.252	<0.254	<0.244	<0.245	<0.290	<0.259	<0.260	<0.258	<0.263	<0.256	<0.256	<0.249
MERCURY	MG/KG-DRY	71921 7471M-G	<0.099	<0.100	<0.104	<0.102	<0.093	<0.093	0.116	<0.092	<0.094	<0.103	<0.104	<0.103	<0.100	<0.103
BARIUM	MG/KG-DRY	1008 6010-G	80.0	61.9	87.4	96.2	100.0	107	91.9	90.9	105	96.0	147	82.3	82.9	125
CADMIUM	MG/KG-DRY	1028 6010-G	<0.503	<0.507	<0.510	1.38	<0.513	<0.500	<0.583	0.671	<0.527	<0.517	<0.524	<0.512	<0.513	<0.524
CHROMIUM	MG/KG-DRY	1029 6010-G	6.40	6.21	9.02	7.66	7.45	5.56	14.5	25.0	10.7	11.3	18.2	9.22	14.6	7.67
LEAD	MG/KG-DRY	1052 6010-G	<10.1	<10.1	<10.2	61.8	<10.3	11.6	<11.7	217	<10.5	39.6	11.9	<10.2	111	<10.5
SILVER	MG/KG-DRY	1078 6010-G	<0.503	<0.507	<0.510	<0.509	<0.513	<0.500	<0.583	<0.523	<0.527	<0.517	<0.524	<0.512	<0.513	<0.524
ACETONE	UG/KG-DRY	75059 8260-G	<10.0	<10.0	<11	<10.0	<10.0	<10.0	<12	<10.0	<11	<10.0	<11	<10.0	<10.0	<11
BENZENE	UG/KG-DRY	34237 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
BROMODICHLOROMETHANE	UG/KG-DRY	34330 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
BROMOFORM	UG/KG-DRY	34290 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
BROMOMETHANE	UG/KG-DRY	34416 8260-G	<10.0	<10.0	<11	<10.0	<10.0	<10.0	<12	<10.0	<11	<10.0	<11	<10.0	<10.0	<11
CARBON DISULFIDE	UG/KG-DRY	78544 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3

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Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S PARAMETERS UNITS	STORET METHOD	WA20-1-04 CDMHNSS 1	WA20-2-06 CDMHNSS 2	WA19-1-08 CDMHNSS 3	WA19-2-07 CDMHNSS 4	WA19-3-05 CDMHNSS 5	WA19-4-05 CDMHNSS 6	WA17-1-03 CDMHNSS 7	WA16-1-02 CDMHNSS 8	WA16-2-03 CDMHNSS 9	WA07-1-01 CDMHNSS 10	WA07-2-05 CDMHNSS 11	WA05-1-04 CDMHNSS 12	WA05-2-03 CDMHNSS 13	WA05-3-04 CDMHNSS 14
DATE		04/19/94	04/19/94	04/19/94	04/20/94	04/20/94	04/20/94	04/21/94	04/22/94	04/22/94	04/22/94	04/23/94	04/23/94	04/25/94	04/25/94
TIME		13:25	14:10	16:48	08:40	13:45	14:15	15:45	09:30	10:05	15:45	10:00	16:00	09:00	09:10
CARBON TETRACHLORIDE UG/KG-DRY	34299 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
CHLOROBENZENE UG/KG-DRY	34304 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
CHLOROETHANE UG/KG-DRY	34314 8260-G	<10.0	<10.0	<11	<10.0	<10.0	<10.0	<12	<10.0	<11	<10.0	<11	<10.0	<10.0	<11
2-CHLOROETHYLVINYL-ETHER UG/KG-DRY	34579 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
CHLOROFORM UG/KG-DRY	34318 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
CHLOROMETHANE UG/KG-DRY	34421 8260-G	<10.0	<10.0	<11	<10.0	<10.0	<10.0	<12	<10.0	<11	<10.0	<11	<10.0	<10.0	<11
DIBROMOCHLOROMETHANE UG/KG-DRY	34389 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
1,1-DICHLOROETHANE UG/KG-DRY	34499 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
1,2-DICHLOROETHANE UG/KG-DRY	34534 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
1,1-DICHLOROETHYLENE UG/KG-DRY	34504 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
1,2-DICHLOROETHENE(TOTAL) UG/KG-DRY	96464 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
1,2-DICHLOROPROPANE UG/KG-DRY	34544 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
CIS-1,3-DICHLORO-PROPENE UG/KG-DRY	34702 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
TRANS-1,3-DICHLORO-PROPENE UG/KG-DRY	34697 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
ETHYLBENZENE UG/KG-DRY	34374 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
2-HEXANONE UG/KG-DRY	75166 8260-G	<10.0	<10.0	<11	<10.0	<10.0	<10.0	<12	<10.0	<11	<10.0	<11	<10.0	<10.0	<11
METHYLENE CHLORIDE UG/KG-DRY	34426 8260-G	7.0	7.1	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
METHYL ETHYL KETONE UG/KG-DRY	75078 8260-G	<10.0	<10.0	<11	<10.0	<10.0	<10.0	<12	<10.0	<11	<10.0	<11	<10.0	<10.0	<11
METHYLISOBUTYLKETONE UG/KG-DRY	75169 8260-G	<10.0	<10.0	<11	<10.0	<10.0	<10.0	78	<10.0	<11	<10.0	<11	<10.0	<10.0	<11
STYRENE UG/KG-DRY	75192 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
1,1,2,2-TETRACHLORO-ETHANE UG/KG-DRY	34519 8260-G	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3

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Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL PAGE 3
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA20-1-04	WA20-2-06	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA17-1-03	WA16-1-02	WA16-2-03	WA07-1-01	WA07-2-05	WA05-1-04	WA05-2-03	WA05-3-04
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	1	2	3	4	5	6	7	8	9	10	11	12	13	14
DATE		04/19/94	04/19/94	04/19/94	04/20/94	04/20/94	04/20/94	04/21/94	04/22/94	04/22/94	04/22/94	04/23/94	04/23/94	04/25/94	04/25/94
TIME		13:25	14:10	16:48	08:40	13:45	14:15	15:45	09:30	10:05	15:45	10:00	16:00	09:00	09:10
TETRACHLOROETHENE	34478	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
UG/KG-DRY	8260-G														
TOLUENE	34483	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
UG/KG-DRY	8260-G														
1,1,1-TRICHL'ETHANE	34509	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
UG/KG-DRY	8260-G														
1,1,2-TRICHL'ETHANE	34514	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	9.5	<5.3
UG/KG-DRY	8260-G														
TRICHLOROETHENE	34487	<5.1	<5.2	<5.3	<5.2	<5.2	<5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
UG/KG-DRY	8260-G														
VINYL CHLORIDE	34495	<10.0	<10.0	<11	<10.0	<10.0	<10.0	<12	<10.0	<11	<10.0	<11	<10.0	<10.0	<11
UG/KG-DRY	8260-G														
VINYL ACETATE	98583	<10.0	<10.0	<11	<10.0	<10.0	<10.0	<12	<10.0	<11	<10.0	<11	<10.0	<10.0	<11
UG/KG-DRY	8260-G														
XYLENE,TOTAL	45510	<5.1	<5.2	<5.3	<5.2	<5.2	5.2	<5.9	<5.2	<5.3	<5.2	<5.3	<5.1	<5.2	<5.3
UG/KG-DRY	8260-G														
ACENAPHTHENE	34208	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
UG/KG-DRY	8270/3540-G														
ACENAPHTHYLENE	34203	<150	<150	<160	<3100	<150	<150	<18000	<16000	<160	<160	<160	<150	<1500	<160
UG/KG-DRY	8270/3540-G														
ANTHRACENE	34223	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
UG/KG-DRY	8270/3540-G														
BENZYL ALCOHOL	75212	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
UG/KG-DRY	8270/3540-G														
BENZOIC ACID	75315	<2800	<2800	<2800	<56000	<2800	<2800	<320000	<280000	<2900	<2800	<2900	<2800	<28000	<2900
UG/KG-DRY	8270/3540-G														
BENZO(A)ANTHRACENE	34529	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
UG/KG-DRY	8270/3540-G														
BENZO(B)FLUORANTHENE	34233	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
UG/KG-DRY	8270/3540-G														
BENZO(K)FLUORANTHENE	34245	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
UG/KG-DRY	8270/3540-G														
BENZO(A)PYRENE	34250	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
UG/KG-DRY	8270/3540-G														
BENZO(GHI)PERYLENE	34524	<160	<170	<170	<3300	<160	<160	<19000	<17000	<170	<170	<170	<160	<1700	<170
UG/KG-DRY	8270/3540-G														
BUTYLBENZYLPHTHALATE	34295	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
UG/KG-DRY	8270/3540-G														
BIS(2-CHLOROETHYL)	34276	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
ETHER UG/KG-DRY	8270/3540-G														
BIS(2-CHLOROETHOXY)	34281	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
METHANE UG/KG-DRY	8270/3540-G														

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA20-1-04	WA20-2-06	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA17-1-03	WA16-1-02	WA16-2-03	WA07-1-01	WA07-2-05	WA05-1-04	WA05-2-03	WA05-3-04
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	1	2	3	4	5	6	7	8	9	10	11	12	13	14
DATE		04/19/94	04/19/94	04/19/94	04/20/94	04/20/94	04/20/94	04/21/94	04/22/94	04/22/94	04/22/94	04/23/94	04/23/94	04/25/94	04/25/94
TIME		13:25	14:10	16:48	08:40	13:45	14:15	15:45	09:30	10:05	15:45	10:00	16:00	09:00	09:10
BIS(2-ETHYLHEXYL) PHTHALATE UG/KG-DRY	39102 8270/3540-G	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
BIS(2-CHL'ISOPROPYL) ETHER UG/KG-DRY	34286 8270/3540-G	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
4-BROMOPHENYL PHENYL ETHER UG/KG-DRY	34639 8270/3540-G	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
4-CHLOROANILINE UG/KG-DRY	78867 8270/3540-G	<310	<310	<320	<6200	<310	<310	<35000	<31000	<320	<310	<320	<310	<3100	<320
2-CHLORONAPHTHALENE UG/KG-DRY	34584 8270/3540-G	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
2-CHLOROPHENOL UG/KG-DRY	34589 8270/3540-G	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
4-CHLORO-3-METHYL PHENOL UG/KG-DRY	34455 8270/3540-G	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
4-CHLOROPHENYLPHENYL ETHER UG/KG-DRY	34644 8270/3540-G	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
CHRYSENE UG/KG-DRY	34323 8270/3540-G	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
DIBEN(A,H)ANTH'CENE UG/KG-DRY	34559 8270/3540-G	<160	<170	<170	<3300	<160	<160	<19000	<17000	<170	<170	<170	<160	<1700	<170
DIBENZOFURAN UG/KG-DRY	75647 8270/3540-G	<120	<120	<130	<2500	<120	<120	<14000	<13000	<130	<120	<130	<120	<1200	<130
DI-N-BUTYL PHTHALATE UG/KG-DRY	39112 8270/3540-G	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
1,3-DICHLOROBENZENE UG/KG-DRY	34569 8270/3540-G	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
1,2-DICHLOROBENZENE UG/KG-DRY	34539 8270/3540-G	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
1,4-DICHLOROBENZENE UG/KG-DRY	34574 8270/3540-G	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
3,3-DICHL'BENZIDINE UG/KG-DRY	34634 8270/3540-G	<510	<520	<530	<10000	<520	<520	<59000	<52000	<530	<520	<530	<510	<5200	<530
2,4-DICHLOROPHENOL UG/KG-DRY	34604 8270/3540-G	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
DIETHYL PHTHALATE UG/KG-DRY	34339 8270/3540-G	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
2,4-DIMETHYLPHENOL UG/KG-DRY	34609 8270/3540-G	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
DIMETHYL PHTHALATE UG/KG-DRY	34344 8270/3540-G	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
2,4-DINITROPHENOL UG/KG-DRY	34619 8270/3540-G	<1300	<1300	<1400	<27000	<1300	<1300	<150000	<140000	<1400	<1300	<1400	<1300	<13000	<1400

Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S PARAMETERS	UNITS	STORET METHOD	WA20-1-04 CDMHNSS 1	WA20-2-06 CDMHNSS 2	WA19-1-08 CDMHNSS 3	WA19-2-07 CDMHNSS 4	WA19-3-05 CDMHNSS 5	WA19-4-05 CDMHNSS 6	WA17-1-03 CDMHNSS 7	WA16-1-02 CDMHNSS 8	WA16-2-03 CDMHNSS 9	WA07-1-01 CDMHNSS 10	WA07-2-05 CDMHNSS 11	WA05-1-04 CDMHNSS 12	WA05-2-03 CDMHNSS 13	WA05-3-04 CDMHNSS 14
DATE			04/19/94	04/19/94	04/19/94	04/20/94	04/20/94	04/20/94	04/21/94	04/22/94	04/22/94	04/22/94	04/23/94	04/23/94	04/25/94	04/25/94
TIME			13:25	14:10	16:48	08:40	13:45	14:15	15:45	09:30	10:05	15:45	10:00	16:00	09:00	09:10
2,4-DINITROTOLUENE	UG/KG-DRY	34614 8270/3540-G	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
2,6-DINITROTOLUENE	UG/KG-DRY	34629 8270/3540-G	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
DI-N-OCTYL PHTHALATE	UG/KG-DRY	34599 8270/3540-G	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
FLUORANTHENE	UG/KG-DRY	34379 8270/3540-G	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
FLUORENE	UG/KG-DRY	34384 8270/3540-G	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
HEXACHLOROBENZENE	UG/KG-DRY	39701 8270/3540-G	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
HEXACHLOROBUTADIENE	UG/KG-DRY	39705 8270/3540-G	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
HEXACHLOROCYCLOPENTA DIENE	UG/KG-DRY	34389 8270/3540-G	<1000	<1000	<1100	<21000	<1000	<1000	<120000	<100000	<1100	<1000	<1100	<1000	<10000	<1100
HEXACHLOROETHANE	UG/KG-DRY	34399 8270/3540-G	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
INDENO(1,2,3-CD) PYRENE	UG/KG-DRY	34406 8270/3540-G	<160	<170	<170	<3300	<160	<160	<19000	<17000	<170	<170	<170	<160	<1700	<170
ISOPHORONE	UG/KG-DRY	34411 8270/3540-G	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
2-METHYLNAPHTHALENE	UG/KG-DRY	78868 8270/3540-G	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
2-METHYL-4,6-DINITRO PHENOL	UG/KG-DRY	34660 8270/3540-G	<690	<690	<700	<14000	<690	<690	<79000	<70000	<710	<690	<710	<690	<6900	<710
2-METHYLPHENOL	UG/KG-DRY	78872 8270/3540-G	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
4-METHYLPHENOL	UG/KG-DRY	78803 8270/3540-G	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
NAPHTHALENE	UG/KG-DRY	34445 8270/3540-G	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
2-NITROANILINE	UG/KG-DRY	98588 8270/3540-G	<310	<310	<320	<6200	<310	<310	<35000	<31000	<320	<310	<320	<310	<3100	<320
3-NITROANILINE	UG/KG-DRY	78869 8270/3540-G	<310	<310	<320	<6200	<310	<310	<35000	<31000	<320	<310	<320	<310	<3100	<320
4-NITROANILINE	UG/KG-DRY	78870 8270/3540-G	<410	<410	<420	<8200	<410	<410	<47000	<42000	<420	<410	<420	<410	<4100	<420
NITROBENZENE	UG/KG-DRY	34450 8270/3540-G	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
2-NITROPHENOL	UG/KG-DRY	34594 8270/3540-G	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA20-1-04	WA20-2-06	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA17-1-03	WA16-1-02	WA16-2-03	WA07-1-01	WA07-2-05	WA05-1-04	WA05-2-03	WA05-3-04
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	1	2	3	4	5	6	7	8	9	10	11	12	13	14
DATE		04/19/94	04/19/94	04/19/94	04/20/94	04/20/94	04/20/94	04/21/94	04/22/94	04/22/94	04/22/94	04/23/94	04/23/94	04/25/94	04/25/94
TIME		13:25	14:10	16:48	08:40	13:45	14:15	15:45	09:30	10:05	15:45	10:00	16:00	09:00	09:10
4-NITROPHENOL	34649	<510	<520	<530	<10000	<520	<520	<59000	<52000	<530	<520	<530	<510	<5200	<530
UG/KG-DRY	8270/3540-G														
N-NITROSODI-N-PROPYL	34431	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
AMINE UG/KG-DRY	8270/3540-G														
N-NITROSODIPHE'AMINE	34436	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
UG/KG-DRY	8270/3540-G														
PENTACHLOROPHENOL	39061	<260	<260	<260	<5200	<260	<260	<29000	<26000	<260	<260	<260	<260	<2600	<260
UG/KG-DRY	8270/3540-G														
PHENANTHRENE	34464	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
UG/KG-DRY	8270/3540-G														
PHENOL	34695	<140	<140	<150	<2900	<140	<140	<16000	<15000	<150	<140	<150	<140	<1400	<150
UG/KG-DRY	8270/3540-G														
PYRENE	34472	<72	<72	<74	<1400	<72	<72	<8200	<7300	<74	<72	<74	<72	<720	<74
UG/KG-DRY	8270/3540-G														
1,2,4-TRICH'BENZENE	34554	<100	<100	<110	<2100	<100	<100	<12000	<10000	<110	<100	<110	<100	<1000	<110
UG/KG-DRY	8270/3540-G														
2,4,6-TRICH'PHENOL	34624	<170	<180	<180	<3500	<180	<180	<20000	<18000	<180	<180	<180	<170	<1800	<180
UG/KG-DRY	8270/3540-G														
2,4,5-TRICH'PHENOL	98587	<170	<180	<180	<3500	<180	<180	<20000	<18000	<180	<180	<180	<170	<1800	<180
UG/KG-DRY	8270/3540-G														
ALDRIN	39333	<0.685	<0.689	<0.700	<0.687	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.826	<0.846
UG/KG-DRY	8080/3540-G														
BHC,A	39076	<0.685	<0.689	<0.700	<0.687	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														
BHC,B	34257	<0.685	<0.689	<0.700	<0.687	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														
BHC,D	34262	<0.685	<0.689	<0.700	<0.687	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														
BHC,G(LINDANE)	39783	<0.685	<0.689	<0.700	<0.687	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														
CHLORDANE	39351	<3.43	<3.44	<3.50	<3.44	<3.44	<3.44	<39.1	<3.49	<3.53	37700	<3.52	<3.43	<3.44	<3.52
UG/KG-DRY	8080/3540-G														
DDD,PP'	39311	62.7	<0.689	<0.700	54.7	<0.687	<0.687	<7.82	<0.698	<0.705	42700	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														
DDE,PP'	39321	298	<0.689	<0.700	37.4	74.0	85.5	83.1	34.4	1.59	3330	<0.705	3.18	5.23	<0.705
UG/KG-DRY	8080/3540-G														
DDT,PP'	39301	125	<0.689	<0.700	177	64.6	78.6	879	39.0	<0.705	254000	<0.705	6.72	5.54	<0.846
UG/KG-DRY	8080/3540-G														
DIELDRIN	39383	<0.685	<0.689	<0.700	<0.687	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														
ENDOSULFAN,A	34364	<0.685	<0.689	<0.700	<0.687	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														

Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA20-1-04	WA20-2-06	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA17-1-03	WA16-1-02	WA16-2-03	WA07-1-01	WA07-2-05	WA05-1-04	WA05-2-03	WA05-3-04
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	1	2	3	4	5	6	7	8	9	10	11	12	13	14
DATE		04/19/94	04/19/94	04/19/94	04/20/94	04/20/94	04/20/94	04/21/94	04/22/94	04/22/94	04/22/94	04/23/94	04/23/94	04/25/94	04/25/94
TIME		13:25	14:10	16:48	08:40	13:45	14:15	15:45	09:30	10:05	15:45	10:00	16:00	09:00	09:10
ENDOSULFAN,B	34359	<0.685	<0.689	<0.700	4.52	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														
ENDOSULFAN SULFATE	34354	<0.685	<0.689	<0.700	<0.687	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														
ENDRIN	39393	<0.685	<0.689	<0.700	<0.687	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														
ENDRIN ALDEHYDE	34369	<0.685	<0.689	<0.700	<0.687	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														
HEPTACHLOR	39413	<0.685	<0.689	<0.700	<0.687	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														
HEPTACHLOR EPOXIDE	39423	<0.685	<0.689	<0.700	<0.687	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<0.689	<0.705
UG/KG-DRY	8080/3540-G														
METHOXYCHLOR	39481	<0.685	<0.689	<0.700	1.92	<0.687	<0.687	<7.82	<0.698	<0.705	<0.689	<0.705	<0.686	<1.24	<1.27
UG/KG-DRY	8080/3540-G														
TOXAPHENE	39403	<68.5	<68.9	<70.0	<68.7	<68.7	<68.7	<782	<69.8	<70.5	<68.9	<70.5	<68.6	<68.9	<70.5
UG/KG-DRY	8080/3540-G														
PCB-1016	39514	<13.7	<13.8	<14.0	<13.7	<13.7	<13.7	<15.6	<14.0	<14.1	<13.8	<14.1	<13.7	<13.8	<14.1
UG/KG-DRY	8080/3540-G														
PCB-1221	39491	<13.7	<13.8	<14.0	<13.7	<13.7	<13.7	<15.6	<14.0	<14.1	<13.8	<14.1	<13.7	<13.8	<14.1
UG/KG-DRY	8080/3540-G														
PCB-1232	39495	<13.7	<13.8	<14.0	<13.7	<13.7	<13.7	<15.6	<14.0	<14.1	<13.8	<14.1	<13.7	<13.8	<14.1
UG/KG-DRY	8080/3540-G														
PCB-1242	39499	<13.7	<13.8	<14.0	<13.7	<13.7	<13.7	<15.6	<14.0	<14.1	<13.8	<14.1	<13.7	<13.8	<14.1
UG/KG-DRY	8080/3540-G														
PCB-1248	39503	<13.7	<13.8	<14.0	344	<13.7	<13.7	<15.6	<14.0	<14.1	<13.8	<14.1	<13.7	<13.8	<14.1
UG/KG-DRY	8080/3540-G														
PCB-1254	39507	<13.7	<13.8	<14.0	344	<13.7	<13.7	<15.6	<14.0	<14.1	0.0	0.0	0.0	<13.8	<14.1
UG/KG-DRY	8080/3540-G														
PCB-1260	39511	<13.7	<13.8	<14.0	<13.7	<13.7	<13.7	<15.6	<14.0	<14.1	<13.8	<14.1	<13.7	<13.8	<14.1
UG/KG-DRY	8080/3540-G														

Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S / PARAMETERS	STORET METHOD	WA04-1-05 CDMHNSS 15	WA04-2-12 CDMHNSS 16	EA14-1-01 CDMHNSS 17	EA14-2-01 CDMHNSS 18	EA12-1-10 CDMHNSS 19	EA12-2-12 CDMHNSS 20	EA11-1-07 CDMHNSS 21	EA01-1-10 CDMHNSS 22	OCS1-1-00 CDMHNSS 23	EBG1-1-02 CDMHNSS 24	ESV1-1-01 CDMHNSS 25	WBG2-1-02 CDMHNSS 26	WBG2-2-02 CDMHNSS 27	WA04-3-20 CDMHNSS 28
DATE		04/25/94	04/25/94	04/27/94	04/27/94	04/27/94	04/27/94	04/29/94	05/02/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/04/94
TIME		13:15	14:00	11:50	12:10	14:00	15:10	08:22	11:15	08:15	11:30	12:35	15:00	15:25	08:25
SITE #	962740	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L
CHAIN OF CUSTODY #	967930	7	7	8	8	8	8	10	10	11	12	12	12	12	13
SCREEN,GR. ALPHA, (ESTIMATE)NCI/KG-WET	96636R	45.8	<2.0	14.0	<2.0	<2.0	<2.0	11.8	2.0	24.3	9.2	10.9	<2.0	<2.0	<2.0
SCREEN,GR. BETA, (ESTIMATE)NCI/KG-WET	96637R	27.0	<6.0	25.5	<6.0	<6.0	23.1	21.9	35.0	24.5	17.3	25.9	<6.0	<6.0	31.8
MOISTURE %WET WT	70320I	3.8	4.5	3.8	3.6	3.8	4.2	3.8	8.9	5.5	6.5	2.8	5.8	6.0	2.6
HYDROCARBONS,PETROL MG/KG-DRY	98233AISON	2040	381	<8.69	<8.67	165000	<8.73	43.2	4920	<8.85	<8.94	<8.60	<8.87	<8.89	<8.58
ARSENIC MG/KG-DRY	10037060-G	5.02	3.96	6.88	6.98	5.84	6.94	7.67	8.12	4.87	6.71	3.89	4.71	5.11	1.44
SELENIUM MG/KG-DRY	11487740-G	<0.255	<0.257	<0.258	<0.258	<0.259	<0.259	<0.258	0.514	<0.260	<0.262	<0.253	<0.259	<0.260	<0.255
MERCURY MG/KG-DRY	719217471M-G	<0.100	<0.101	<0.104	<0.102	<0.101	<0.101	<0.101	0.124	<0.104	<0.098	<0.096	<0.091	<0.099	<0.097
BARIUM MG/KG-DRY	10086010-G	112	101	105	111	119	145	120	119	96.2	120	73.2	114	117	79.9
CADMIUM MG/KG-DRY	10286010-G	<0.511	<0.504	<0.518	<0.515	<0.519	<0.521	<0.516	<0.547	<0.521	<0.531	<0.509	<0.521	<0.523	<0.490
CHROMIUM MG/KG-DRY	10296010-G	10.4	9.20	14.1	14.9	13.8	15.6	19.1	15.4	11.3	7.15	8.15	7.69	7.47	10.3
LEAD MG/KG-DRY	10526010-G	15.6	12.0	10.4	<10.3	36.0	13.8	<10.3	11.2	<10.4	<10.6	27.2	<10.4	<10.5	<9.80
SILVER MG/KG-DRY	10786010-G	<0.511	<0.504	<0.518	<0.515	1.05	<0.521	<0.516	<0.547	<0.521	<0.531	<0.509	<0.521	<0.523	<0.490
ACETONE UG/KG-DRY	750598260-G	<10.0	11	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<11	<11	<10.0	<11	<11	<10.0
BENZENE UG/KG-DRY	342378260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
BROMODICHLOROMETHANE UG/KG-DRY	343308260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
BROMOFORM UG/KG-DRY	342908260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
BROMOMETHANE UG/KG-DRY	344168260-G	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<11	<11	<10.0	<11	<11	<10.0
CARBON DISULFIDE UG/KG-DRY	785448260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S / PARAMETERS	STORET METHOD	WA04-1-05 CDMHNSS 15	WA04-2-12 CDMHNSS 16	EA14-1-01 CDMHNSS 17	EA14-2-01 CDMHNSS 18	EA12-1-10 CDMHNSS 19	EA12-2-12 CDMHNSS 20	EA11-1-07 CDMHNSS 21	EA01-1-10 CDMHNSS 22	OCS1-1-00 CDMHNSS 23	EBG1-1-02 CDMHNSS 24	ESV1-1-01 CDMHNSS 25	WBG2-1-02 CDMHNSS 26	WBG2-2-02 CDMHNSS 27	WA04-3-20 CDMHNSS 28
DATE		04/25/94	04/25/94	04/27/94	04/27/94	04/27/94	04/27/94	04/29/94	05/02/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/04/94
TIME		13:15	14:00	11:50	12:10	14:00	15:10	08:22	11:15	08:15	11:30	12:35	15:00	15:25	08:25
CARBON TETRACHLORIDE UG/KG-DRY	34299 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
CHLOROBENZENE UG/KG-DRY	34304 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
CHLOROETHANE UG/KG-DRY	34314 8260-G	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<11	<11	<10.0	<11	<11	<10.0
2-CHLOROETHYLVINYL-ETHER UG/KG-DRY	34579 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	NRQ	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
CHLOROFORM UG/KG-DRY	34318 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
CHLOROMETHANE UG/KG-DRY	34421 8260-G	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<11	<11	<10.0	<11	<11	<10.0
DIBROMOCHLOROMETHANE UG/KG-DRY	34309 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
1,1-DICHLOROETHANE UG/KG-DRY	34499 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
1,2-DICHLOROETHANE UG/KG-DRY	34534 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
1,1-DICHLOROETHYLENE UG/KG-DRY	34504 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
1,2-DICHLOROETHENE(TOTAL) UG/KG-DRY	96464 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
1,2-DICHLOROPROPANE UG/KG-DRY	34544 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
CIS-1,3-DICHLORO-PROPENE UG/KG-DRY	34702 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
TRANS-1,3-DICHLORO-PROPENE UG/KG-DRY	34697 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
ETHYLBENZENE UG/KG-DRY	34374 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
2-HEXANONE UG/KG-DRY	75166 8260-G	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<11	<11	<10.0	<11	<11	<10.0
METHYLENE CHLORIDE UG/KG-DRY	34426 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
METHYL ETHYL KETONE UG/KG-DRY	75078 8260-G	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<11	<11	<10.0	<11	<11	<10.0
METHYLISOBUTYLKETONE UG/KG-DRY	75169 8260-G	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<11	<11	<10.0	<11	<11	<10.0
STYRENE UG/KG-DRY	75192 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
1,1,2,2-TETRACHLORO-ETHANE UG/KG-DRY	34519 8260-G	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA04-1-05	WA04-2-12	EA14-1-01	EA14-2-01	EA12-1-10	EA12-2-12	EA11-1-07	EA01-1-10	OCS1-1-00	EBG1-1-02	ESV1-1-01	WBG2-1-02	WBG2-2-02	WA04-3-20
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	15	16	17	18	19	20	21	22	23	24	25	26	27	28
DATE		04/25/94	04/25/94	04/27/94	04/27/94	04/27/94	04/27/94	04/29/94	05/02/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/04/94
TIME		13:15	14:00	11:50	12:10	14:00	15:10	08:22	11:15	08:15	11:30	12:35	15:00	15:25	08:25
TETRACHLOROETHENE	34478	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
UG/KG-DRY	8260-G														
TOLUENE	34483	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
UG/KG-DRY	8260-G														
1,1,1-TRICHL'ETHANE	34509	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
UG/KG-DRY	8260-G														
1,1,2-TRICHL'ETHANE	34514	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
UG/KG-DRY	8260-G														
TRICHLOROETHENE	34487	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.0	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
UG/KG-DRY	8260-G														
VINYL CHLORIDE	34495	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<11	<11	<11	<10.0	<11	<11	<10.0
UG/KG-DRY	8260-G														
VINYL ACETATE	98583	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NRQ	<11	<11	<11	<10.0	<11	<11	<10.0
UG/KG-DRY	8260-G														
XYLENE,TOTAL	45510	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	NRQ	<5.5	<5.3	<5.3	<5.1	<5.3	<5.3	<5.1
UG/KG-DRY	8260-G														
ACENAPHTHENE	34208	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
UG/KG-DRY	8270/3540-G														
ACENAPHTHYLENE	34203	<160	<160	<160	<160	<160	<160	<340	<1600	<160	<160	<150	<160	<160	<150
UG/KG-DRY	8270/3540-G														
ANTHRACENE	34223	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
UG/KG-DRY	8270/3540-G														
BENZYL ALCOHOL	75212	<150	<150	<150	<150	<150	<150	NRQ	<1500	<150	<150	<140	<150	<150	<140
UG/KG-DRY	8270/3540-G														
BENZOIC ACID	75315	<2800	<2800	<2800	<2800	<2800	<2800	NRQ	<30000	<2900	<2900	<2800	<2900	<2900	<2800
UG/KG-DRY	8270/3540-G														
BENZO(A)ANTHRACENE	34529	<100	<100	<100	<100	<100	<100	<340	<1100	<110	<110	<100	<110	<110	<100
UG/KG-DRY	8270/3540-G														
BENZO(B)FLUORANTHENE	34233	<100	<100	<100	<100	<100	<100	<340	<1100	<110	<110	<100	<110	<110	<100
UG/KG-DRY	8270/3540-G														
BENZO(K)FLUORANTHENE	34245	<100	<100	<100	<100	<100	<100	<340	<1100	<110	<110	<100	<110	<110	<100
UG/KG-DRY	8270/3540-G														
BENZO(A)PYRENE	34250	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
UG/KG-DRY	8270/3540-G														
BENZO(GHI)PERYLENE	34524	<170	<170	<170	<170	<170	<170	<340	<1800	<170	<170	<160	<170	<170	<160
UG/KG-DRY	8270/3540-G														
BUTYLBENZYLPHTHALATE	34295	<100	<100	<100	<100	<100	<100	<340	<1100	<110	<110	<100	<110	<110	<100
UG/KG-DRY	8270/3540-G														
BIS(2-CHLOROETHYL)	34276	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
ETHER UG/KG-DRY	8270/3540-G														
BIS(2-CHLOROETHOXY)	34281	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
METHANE UG/KG-DRY	8270/3540-G														

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Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA04-1-05	WA04-2-12	EA14-1-01	EA14-2-01	EA12-1-10	EA12-2-12	EA11-1-07	EA01-1-10	OCS1-1-00	EBG1-1-02	ESV1-1-01	WBG2-1-02	WBG2-2-02	WA04-3-20
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	15	16	17	18	19	20	21	22	23	24	25	26	27	28
DATE		04/25/94	04/25/94	04/27/94	04/27/94	04/27/94	04/27/94	04/29/94	05/02/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/04/94
TIME		13:15	14:00	11:50	12:10	14:00	15:10	08:22	11:15	08:15	11:30	12:35	15:00	15:25	08:25
BIS(2-ETHYLHEXYL) PHTHALATE UG/KG-DRY	39102 8270/3540-G	<100	160	<100	<100	<100	<100	<340	<1100	<110	<110	<100	<110	120	<100
BIS(2-CHL'ISOPROPYL) ETHER UG/KG-DRY	34286 8270/3540-G	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
4-BROMOPHENYL PHENYL ETHER UG/KG-DRY	34639 8270/3540-G	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
4-CHLOROANILINE UG/KG-DRY	78867 8270/3540-G	<310	<310	<310	<310	<310	<310	<340	<3300	<320	<320	<310	<320	<320	<310
2-CHLORONAPHTHALENE UG/KG-DRY	34584 8270/3540-G	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
2-CHLOROPHENOL UG/KG-DRY	34589 8270/3540-G	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
4-CHLORO-3-METHYL PHENOL UG/KG-DRY	34455 8270/3540-G	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
4-CHLOROPHENYLPHENYL ETHER UG/KG-DRY	34644 8270/3540-G	<100	<100	<100	<100	<100	<100	<340	<1100	<110	<110	<100	<110	<110	<100
CHRYSENE UG/KG-DRY	34323 8270/3540-G	<100	<100	<100	<100	<100	<100	<340	<1100	<110	<110	<100	<110	<110	<100
DIBEN(A,H)ANTH'CENE UG/KG-DRY	34559 8270/3540-G	<170	<170	<170	<170	<170	<170	<340	<1800	<170	<170	<160	<170	<170	<160
DIBENZOFURAN UG/KG-DRY	75647 8270/3540-G	380	<130	<120	<120	<120	<130	<340	<1300	<130	<130	<120	<130	<130	<120
DI-N-BUTYL PHTHALATE UG/KG-DRY	39112 8270/3540-G	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
1,3-DICHLOROBENZENE UG/KG-DRY	34569 8270/3540-G	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
1,2-DICHLOROBENZENE UG/KG-DRY	34539 8270/3540-G	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
1,4-DICHLOROBENZENE UG/KG-DRY	34574 8270/3540-G	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
3,3-DICHL'BENZIDINE UG/KG-DRY	34634 8270/3540-G	<520	<520	<520	<520	<520	<520	<340	<5500	<530	<530	<510	<530	<530	<510
2,4-DICHLOROPHENOL UG/KG-DRY	34604 8270/3540-G	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
DIETHYL PHTHALATE UG/KG-DRY	34339 8270/3540-G	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
2,4-DIMETHYLPHENOL UG/KG-DRY	34609 8270/3540-G	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
DIMETHYL PHTHALATE UG/KG-DRY	34344 8270/3540-G	<100	<100	<100	<100	<100	<100	<340	<1100	<110	<110	<100	<110	<110	<100
2,4-DINITROPHENOL UG/KG-DRY	34619 8270/3540-G	<1400	<1400	<1400	<1300	<1400	<1400	<830	<14000	<1400	<1400	<1300	<1400	<1400	<1300

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SAMPLE ID'S			WA04-1-05	WA04-2-12	EA14-1-01	EA14-2-01	EA12-1-10	EA12-2-12	EA11-1-07	EA01-1-10	OCS1-1-00	EBG1-1-02	ESV1-1-01	WBG2-1-02	WBG2-2-02	WA04-3-20
PARAMETERS		STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
	UNITS	METHOD	15	16	17	18	19	20	21	22	23	24	25	26	27	28
DATE			04/25/94	04/25/94	04/27/94	04/27/94	04/27/94	04/27/94	04/29/94	05/02/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/04/94
TIME			13:15	14:00	11:50	12:10	14:00	15:10	08:22	11:15	08:15	11:30	12:35	15:00	15:25	08:25
2,4-DINITROTOLUENE	UG/KG-DRY	34614 8270/3540-G	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
2,6-DINITROTOLUENE	UG/KG-DRY	34629 8270/3540-G	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
DI-N-OCTYL PHTHALATE	UG/KG-DRY	34599 8270/3540-G	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
FLUORANTHENE	UG/KG-DRY	34379 8270/3540-G	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
FLUORENE	UG/KG-DRY	34384 8270/3540-G	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
HEXACHLOROBENZENE	UG/KG-DRY	39701 8270/3540-G	<100	<100	<100	<100	<100	<100	<340	<1100	<110	<110	<100	<110	<110	<100
HEXACHLOROBUTADIENE	UG/KG-DRY	39705 8270/3540-G	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
HEXACHLOROCYCLOPENTA DIENE	UG/KG-DRY	34389 8270/3540-G	<1000	<1000	<1000	<1000	<1000	<1000	<340	<11000	<1100	<1100	<1000	<1100	<1100	<1000
HEXACHLOROETHANE	UG/KG-DRY	34399 8270/3540-G	<100	<100	<100	<100	<100	<100	<340	<1100	<110	<110	<100	<110	<110	<100
INDENO(1,2,3-CD) PYRENE	UG/KG-DRY	34406 8270/3540-G	<170	<170	<170	<170	<170	<170	<340	<1800	<170	<170	<160	<170	<170	<160
ISOPHORONE	UG/KG-DRY	34411 8270/3540-G	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
2-METHYLNAPHTHALENE	UG/KG-DRY	78868 8270/3540-G	3600	<100	<100	<100	<100	<100	<340	77000	<110	<110	<100	<110	<110	<100
2-METHYL-4,6-DINITRO PHENOL	UG/KG-DRY	34660 8270/3540-G	<700	<700	<700	<700	<700	<700	<830	<7400	<710	<720	<690	<710	<710	<690
2-METHYLPHENOL	UG/KG-DRY	78872 8270/3540-G	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
4-METHYLPHENOL	UG/KG-DRY	78803 8270/3540-G	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
NAPHTHALENE	UG/KG-DRY	34445 8270/3540-G	960	<73	<73	<73	<73	<73	<340	3200	<74	<75	<72	<74	<74	<72
2-NITROANILINE	UG/KG-DRY	98588 8270/3540-G	<310	<310	<310	<310	<310	<310	<830	<3300	<320	<320	<310	<320	<320	<310
3-NITROANILINE	UG/KG-DRY	78869 8270/3540-G	<310	<310	<310	<310	<310	<310	<830	<3300	<320	<320	<310	<320	<320	<310
4-NITROANILINE	UG/KG-DRY	78870 8270/3540-G	<420	<420	<420	<410	<420	<420	<830	<4400	<420	<430	<410	<420	<430	<410
NITROBENZENE	UG/KG-DRY	34450 8270/3540-G	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
2-NITROPHENOL	UG/KG-DRY	34594 8270/3540-G	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140

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PROJECT NUMBER 19440220 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA04-1-05	WA04-2-12	EA14-1-01	EA14-2-01	EA12-1-10	EA12-2-12	EA11-1-07	EA01-1-10	OCS1-1-00	EBG1-1-02	ESV1-1-01	WBG2-1-02	WBG2-2-02	WA04-3-20
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	15	16	17	18	19	20	21	22	23	24	25	26	27	28
DATE		04/25/94	04/25/94	04/27/94	04/27/94	04/27/94	04/27/94	04/29/94	05/02/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/04/94
TIME		13:15	14:00	11:50	12:10	14:00	15:10	08:22	11:15	08:15	11:30	12:35	15:00	15:25	08:25
4-NITROPHENOL	34649	<520	<520	<520	<520	<520	<520	<830	<5500	<530	<530	<510	<530	<530	<510
UG/KG-DRY	8270/3540-G														
N-NITROSODI-N-PROPYL	34431	<100	<100	<100	<100	<100	<100	<340	<1100	<110	<110	<100	<110	<110	<100
AMINE UG/KG-DRY	8270/3540-G														
N-NITROSODIPHE'AMINE	34436	<73	<73	<73	<73	<73	<73	<340	<770	<74	<75	<72	<74	<74	<72
UG/KG-DRY	8270/3540-G														
PENTACHLOROPHENOL	39061	<260	<260	<260	<260	<260	<260	<830	<2700	<260	<270	<260	<270	<270	<260
UG/KG-DRY	8270/3540-G														
PHENANTHRENE	34464	570	<73	<73	<73	<73	<73	<340	16000	<74	<75	<72	<74	<74	<72
UG/KG-DRY	8270/3540-G														
PHENOL	34695	<150	<150	<150	<150	<150	<150	<340	<1500	<150	<150	<140	<150	<150	<140
UG/KG-DRY	8270/3540-G														
PYRENE	34472	<73	<73	<73	<73	<73	<73	<340	5400	<74	<75	<72	<74	<74	<72
UG/KG-DRY	8270/3540-G														
1,2,4-TRICH'BENZENE	34554	<100	<100	<100	<100	<100	<100	<340	<1100	<110	<110	<100	<110	<110	<100
UG/KG-DRY	8270/3540-G														
2,4,6-TRICH'PHENOL	34624	<180	<180	<180	<180	<180	<180	<340	<1900	<180	<180	<170	<180	<180	<170
UG/KG-DRY	8270/3540-G														
2,4,5-TRICH'PHENOL	98587	<180	<180	<180	<180	<180	<180	<830	<1900	<180	<180	<170	<180	<180	<170
UG/KG-DRY	8270/3540-G														
ALDRIN	39333	<0.832	<0.838	<0.693	<0.692	<0.693	<0.696	<1.73	<0.732	<0.917	<0.927	<0.892	<0.920	<0.922	<0.890
UG/KG-DRY	8080/3540-G														
BHC,A	39076	<0.693	<0.698	<0.693	<0.692	<0.693	<0.696	<1.73	<0.732	<0.705	<0.713	<0.686	<0.708	<0.709	<0.684
UG/KG-DRY	8080/3540-G														
BHC,B	34257	<0.693	<0.698	<0.693	<0.692	<0.693	<0.696	<1.73	<0.732	<1.34	<1.35	<1.30	<1.34	<1.35	<1.30
UG/KG-DRY	8080/3540-G														
BHC,D	34262	<0.693	<0.698	<0.693	<0.692	<0.693	<0.696	<1.73	<0.732	<0.705	<0.713	<0.686	<0.708	<0.709	<0.684
UG/KG-DRY	8080/3540-G														
BHC,G(LINDANE)	39783	<0.693	<0.698	<0.693	<0.692	5.38	<0.696	<1.73	<0.732	<0.705	<0.713	<0.686	<0.708	<0.709	<0.684
UG/KG-DRY	8080/3540-G														
CHLORDANE	39351	<3.47	<3.49	<3.47	<3.46	<3.47	<3.48	NRQ	<3.66	<3.53	<3.57	<3.43	<3.54	<3.55	<3.42
UG/KG-DRY	8080/3540-G														
DDD,PP'	39311	31.0	115	3790	1630	2780	<0.696	<3.47	786000	<0.748	8.02	597	<0.750	<0.752	<0.726
UG/KG-DRY	8080/3540-G														
DDE,PP'	39321	8.92	79.0	2130	1870	3650	146	<3.47	44400	<0.705	1.57	1660	<0.708	<0.709	<0.684
UG/KG-DRY	8080/3540-G														
DDT,PP'	39301	67.8	284	11600	5600	5910	167	<3.47	2080000	<0.748	12.9	806	1.66	1.47	<0.726
UG/KG-DRY	8080/3540-G														
DIELDRIN	39383	<0.693	<0.698	<0.693	<0.692	64.3	3.53	<3.47	<0.732	<0.847	<0.856	<0.823	<0.849	<0.851	<0.821
UG/KG-DRY	8080/3540-G														
ENDOSULFAN,A	34364	<0.693	<0.698	<0.693	<0.692	<0.693	<0.696	<1.73	<0.732	<0.705	<0.713	<0.686	<0.708	<0.709	<0.684
UG/KG-DRY	8080/3540-G														

PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S			WA04-1-05	WA04-2-12	EA14-1-01	EA14-2-01	EA12-1-10	EA12-2-12	EA11-1-07	EA01-1-10	OCS1-1-00	EBG1-1-02	ESV1-1-01	WBG2-1-02	WBG2-2-02	WA04-3-20
PARAMETERS		STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
	UNITS	METHOD	15	16	17	18	19	20	21	22	23	24	25	26	27	28
DATE			04/25/94	04/25/94	04/27/94	04/27/94	04/27/94	04/27/94	04/29/94	05/02/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/04/94
TIME			13:15	14:00	11:50	12:10	14:00	15:10	08:22	11:15	08:15	11:30	12:35	15:00	15:25	08:25
ENDOSULFAN,B		34359	<0.693	<0.698	<0.693	<0.692	<0.693	<0.696	<3.47	<0.732	<0.705	<0.713	<0.686	<0.708	<0.709	<0.684
	UG/KG-DRY	8080/3540-G														
ENDOSULFAN SULFATE		34354	<0.693	<0.698	<0.693	<0.692	<0.693	<0.696	<3.47	<0.732	<0.705	<0.713	<0.686	<0.708	<0.709	<0.684
	UG/KG-DRY	8080/3540-G														
ENDRIN		39393	<0.693	<0.698	<0.693	<0.692	<0.693	<0.696	<3.47	<0.805	<0.741	<0.749	<0.720	<0.743	<0.745	<0.719
	UG/KG-DRY	8080/3540-G														
ENDRIN ALDEHYDE		34369	<0.693	<0.698	<0.693	<0.692	<0.693	<0.696	<3.47	<0.732	<0.705	<0.713	<0.686	<0.708	<0.709	<0.684
	UG/KG-DRY	8080/3540-G														
HEPTACHLOR		39413	<0.693	<0.698	<0.693	<0.692	<0.693	<0.696	<1.73	<0.732	<0.705	<0.713	<0.686	<0.708	<0.709	<0.684
	UG/KG-DRY	8080/3540-G														
HEPTACHLOR EPOXIDE		39423	<0.693	<0.698	<0.693	<0.692	<0.693	<0.696	<1.73	<0.732	<0.705	<0.713	<0.686	<0.708	<0.709	<0.684
	UG/KG-DRY	8080/3540-G														
METHOXYCHLOR		39481	<1.25	<1.26	<0.693	<0.692	<0.693	<0.696	<17.3	<0.805	<1.14	<1.15	<1.10	<1.14	<1.14	<1.10
	UG/KG-DRY	8080/3540-G														
TOXAPHENE		39403	<69.3	<69.8	<69.3	<69.2	<69.3	<69.6	<173	<73.2	<70.5	<71.3	<68.6	<70.8	<70.9	<68.4
	UG/KG-DRY	8080/3540-G														
PCB-1016		39514	<13.9	<14.0	<13.9	<13.8	<13.9	<13.9	<34.7	<14.6	<14.1	<14.3	<13.7	<14.2	<14.2	<13.7
	UG/KG-DRY	8080/3540-G														
PCB-1221		39491	<13.9	<14.0	<13.9	<13.8	<13.9	<13.9	<69.3	<14.6	<14.1	<14.3	<13.7	<14.2	<14.2	<13.7
	UG/KG-DRY	8080/3540-G														
PCB-1232		39495	<13.9	<14.0	<13.9	<13.8	<13.9	<13.9	<34.7	<14.6	<14.1	<14.3	<13.7	<14.2	<14.2	<13.7
	UG/KG-DRY	8080/3540-G														
PCB-1242		39499	<13.9	<14.0	<13.9	<13.8	<13.9	<13.9	<34.7	<14.6	<14.1	<14.3	<13.7	<14.2	<14.2	<13.7
	UG/KG-DRY	8080/3540-G														
PCB-1248		39503	<13.9	<14.0	<13.9	<13.8	<13.9	<13.9	<34.7	<14.6	<14.1	<14.3	<13.7	<14.2	<14.2	<13.7
	UG/KG-DRY	8080/3540-G														
PCB-1254		39507	<13.9	<14.0	<13.9	<13.8	<13.9	<13.9	<34.7	<14.6	<14.1	<14.3	<13.7	<14.2	<14.2	<13.7
	UG/KG-DRY	8080/3540-G														
PCB-1260		39511	<13.9	<14.0	<13.9	<13.8	<13.9	<13.9	<34.7	<14.6	<14.1	<14.3	<13.7	<14.2	<14.2	<13.7
	UG/KG-DRY	8080/3540-G														

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PROJECT NUMBER 19440220 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA04-4-08	WSV2-1-01	WBG3-1-02	EWC1-1-00	WWC2-1-00	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	29	30	31	32	33	34	35	36	37	38
DATE		05/04/94	05/04/94	05/04/94	05/05/94	05/05/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94
TIME		10:50	13:05	14:30	10:35	12:20	12:54	13:30	08:40	09:00	10:55
SITE #	96274	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L
	0										
CHAIN OF CUSTODY	96793	13	13	13	15	15	17	17	19	19	19
#	0										
SCREEN.GR. ALPHA.	96636	2.8	<2.0	<2.0	<2.0	4.2	25.4	<2.0	22.9	<2.0	21.9
(ESTIMATE)NCI/KG-WET	R										
SCREEN.GR. BETA.	96637	26.6	<6.0	21.0	<6.0	10.4	16.0	21.2	34.1	18.9	23.3
(ESTIMATE)NCI/KG-WET	R										
MOISTURE	70320	4.9	2.4	6.1	2.3	2.1	4.4	4.2	5.4	4.9	4.4
%WET WT	1										
HYDROCARBONS.PETROL	98233	82.0	<8.57	<8.90	255	57.2	437	428	<8.84	<8.79	<8.74
MG/KG-DRY	AISON										
ARSENIC	1003	4.00	1.64	3.07	3.64	1.82	5.42	5.54	7.97	7.75	7.42
MG/KG-DRY	7060-G										
SELENIUM	1148	<0.241	<0.254	<0.263	<0.255	<0.255	<0.255	0.340	<0.258	<0.257	<0.255
MG/KG-DRY	7740-G										
MERCURY	71921	<0.099	<0.096	<0.093	<0.099	<0.093	<0.097	<0.091	<0.105	<0.103	<0.086
MG/KG-DRY	7471M-G										
BARIUM	1008	109	87.9	133	142	171	125	107	151	139	131
MG/KG-DRY	6010-G										
CADMIUM	1028	<0.510	<0.492	<0.511	1.55	1.77	<0.510	<0.513	<0.516	<0.513	<0.509
MG/KG-DRY	6010-G										
CHROMIUM	1029	10.2	6.44	7.66	9.42	56.4	14.9	16.0	20.3	21.3	17.0
MG/KG-DRY	6010-G										
LEAD	1052	<10.2	<9.84	<10.2	1140	1810	24.5	23.6	13.9	12.1	10.6
MG/KG-DRY	6010-G										
SILVER	1078	<0.510	<0.492	<0.511	<0.507	<0.504	<0.510	<0.513	<0.516	<0.513	<0.509
MG/KG-DRY	6010-G										
ACETONE	75059	<11	<10.0	<11	<10.0	<10.0	<10.0	<10.0	<11	<11	<10.0
UG/KG-DRY	8260-G										
BENZENE	34237	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
UG/KG-DRY	8260-G										
BROMODICHLOROMETHANE	34330	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
UG/KG-DRY	8260-G										
BROMOFORM	34290	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
UG/KG-DRY	8260-G										
BROMOMETHANE	34416	<11	<10.0	<11	<10.0	<10.0	<10.0	<10.0	<11	<11	<10.0
UG/KG-DRY	8260-G										
CARBON DISULFIDE	78544	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
UG/KG-DRY	8260-G										

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S PARAMETERS UNITS	STORET METHOD	WA04-4-08 CDMHNSS 29	WSV2-1-01 CDMHNSS 30	WBG3-1-02 CDMHNSS 31	EWC1-1-00 CDMHNSS 32	WWC2-1-00 CDMHNSS 33	EA01-2-05 CDMHNSS 34	EA01-3-05 CDMHNSS 35	EA01-4-14 CDMHNSS 36	EA01-5-12 CDMHNSS 37	EA01-6-10 CDMHNSS 38
DATE		05/04/94	05/04/94	05/04/94	05/05/94	05/05/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94
TIME		10:50	13:05	14:30	10:35	12:20	12:54	13:30	08:40	09:00	10:55
CARBON TETRACHLORIDE UG/KG-DRY	34299 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
CHLOROBENZENE UG/KG-DRY	34304 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
CHLOROETHANE UG/KG-DRY	34314 8260-G	<11	<10.0	<11	<10.0	<10.0	<10.0	<10.0	<11	<11	<10.0
2-CHLOROETHYLVINYL-ETHER UG/KG-DRY	34579 8260-G	NRQ	NRQ	<5.3	<5.1	<5.1	<5.2	<5.2	NRQ	<5.3	<5.2
CHLOROFORM UG/KG-DRY	34318 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
CHLOROMETHANE UG/KG-DRY	34421 8260-G	<11	<10.0	<11	<10.0	<10.0	<10.0	<10.0	<11	<11	<10.0
DIBROMOCHLOROMETHANE UG/KG-DRY	34309 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
1,1-DICHLOROETHANE UG/KG-DRY	34499 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
1,2-DICHLOROETHANE UG/KG-DRY	34534 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
1,1-DICHLOROETHYLENE UG/KG-DRY	34504 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
1,2-DICHLOROETHENE(TOTAL) UG/KG-DRY	96464 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
1,2-DICHLOROPROPANE UG/KG-DRY	34544 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
CIS-1,3-DICHLORO-PROPENE UG/KG-DRY	34702 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
TRANS-1,3-DICHLORO-PROPENE UG/KG-DRY	34697 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
ETHYLBENZENE UG/KG-DRY	34374 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
2-HEXANONE UG/KG-DRY	75166 8260-G	<11	<10.0	<11	<10.0	<10.0	<10.0	<10.0	<11	<11	<10.0
METHYLENE CHLORIDE UG/KG-DRY	34426 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
METHYL ETHYL KETONE UG/KG-DRY	75078 8260-G	<11	<10.0	<11	<10.0	<10.0	<10.0	<10.0	<11	<11	<10.0
METHYLISOBUTYLKETONE UG/KG-DRY	75169 8260-G	<11	<10.0	<11	<10.0	<10.0	<10.0	<10.0	<11	<11	<10.0
STYRENE UG/KG-DRY	75192 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
1,1,2,2-TETRACHLORO-ETHANE UG/KG-DRY	34519 8260-G	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2

SAMPLE ID'S		WA04-4-08	WSV2-1-01	WBC3-1-02	EWC1-1-00	WWC2-1-00	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	29	30	31	32	33	34	35	36	37	38
DATE		05/04/94	05/04/94	05/04/94	05/05/94	05/05/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94
TIME		10:50	13:05	14:30	10:35	12:20	12:54	13:30	08:40	09:00	10:55
TETRACHLOROETHENE	34478	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
UG/KG-DRY	8260-G										
TOLUENE	34483	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
UG/KG-DRY	8260-G										
1,1,1-TRICHL'ETHANE	34509	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
UG/KG-DRY	8260-G										
1,1,2-TRICHL'ETHANE	34514	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
UG/KG-DRY	8260-G										
TRICHLOROETHENE	34487	<11	<10.0	<5.3	<5.1	<5.1	<5.2	<5.2	<11	<5.3	<5.2
UG/KG-DRY	8260-G										
VINYL CHLORIDE	34495	<11	<10.0	<11	<10.0	<10.0	<10.0	<10.0	<11	<11	<10.0
UG/KG-DRY	8260-G										
VINYL ACETATE	98583	NRQ	NRQ	<11	<10.0	<10.0	<10.0	<10.0	NRQ	<11	<10.0
UG/KG-DRY	8260-G										
XYLENE,TOTAL	45510	NRQ	NRQ	<5.3	<5.1	220	<5.2	<5.2	NRQ	<5.3	<5.2
UG/KG-DRY	8260-G										
ACENAPHTHENE	34208	<350	<340	<75	9700	<72	<73	220	<350	<74	<73
UG/KG-DRY	8270/3540-G										
ACENAPHTHYLENE	34203	<350	<340	<160	<3100	<150	<160	<160	<350	<160	<160
UG/KG-DRY	8270/3540-G										
ANTHRACENE	34223	<350	<340	<75	14000	<72	<73	<73	<350	<74	<73
UG/KG-DRY	8270/3540-G										
BENZYL ALCOHOL	75212	NRQ	NRQ	<150	<2900	<140	<150	<150	NRQ	<150	<150
UG/KG-DRY	8270/3540-G										
BENZOIC ACID	75315	NRQ	NRQ	<2900	<55000	<2800	<2800	<2800	NRQ	<2800	<2800
UG/KG-DRY	8270/3540-G										
BENZO(A)ANTHRACENE	34529	<350	<340	<110	8300	<100	<100	<100	<350	<110	<100
UG/KG-DRY	8270/3540-G										
BENZO(B)FLUORANTHENE	34233	<350	<340	<110	6800	<100	<100	<100	<350	<110	<100
UG/KG-DRY	8270/3540-G										
BENZO(K)FLUORANTHENE	34245	<350	<340	<110	2300	<100	<100	<100	<350	<110	<100
UG/KG-DRY	8270/3540-G										
BENZO(A)PYRENE	34250	<350	<340	<150	5300	<140	<150	<150	<350	<150	<150
UG/KG-DRY	8270/3540-G										
BENZO(GHI)PERYLENE	34524	<350	<340	<170	<3300	<160	<170	<170	<350	<170	<170
UG/KG-DRY	8270/3540-G										
BUTYLBENZYLPHTHALATE	34295	<350	<340	<110	<2000	<100	<100	<100	<350	<110	<100
UG/KG-DRY	8270/3540-G										
BIS(2-CHLOROETHYL)	34276	<350	<340	<75	<1400	<72	<73	<73	<350	<74	<73
ETHER UG/KG-DRY	8270/3540-G										
BIS(2-CHLOROETHOXY)	34281	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
METHANE UG/KG-DRY	8270/3540-G										

PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA04-4-08	WSV2-1-01	WBG3-1-02	EWC1-1-00	WWC2-1-00	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	29	30	31	32	33	34	35	36	37	38
DATE		05/04/94	05/04/94	05/04/94	05/05/94	05/05/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94
TIME		10:50	13:05	14:30	10:35	12:20	12:54	13:30	08:40	09:00	10:55
BIS(2-ETHYLHEXYL) PHTHALATEUG/KG-DRY	39102 8270/3540-G	<350	<340	4500	<2000	1400	<100	<100	<350	<110	<100
BIS(2-CHL'ISOPROPYL) ETHER UG/KG-DRY	34286 8270/3540-G	<350	<340	<75	<1400	<72	<73	<73	<350	<74	<73
4-BROMOPHENYL PHENYL ETHER UG/KG-DRY	34639 8270/3540-G	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
4-CHLOROANILINE UG/KG-DRY	78867 8270/3540-G	<350	<340	<320	<6100	<310	<310	<310	<350	<320	<310
2-CHLORONAPHTHALENE UG/KG-DRY	34584 8270/3540-G	<350	<340	<75	<1400	<72	<73	<73	<350	<74	<73
2-CHLOROPHENOL UG/KG-DRY	34589 8270/3540-G	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
4-CHLORO-3-METHYL PHENOL UG/KG-DRY	34455 8270/3540-G	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
4-CHLOROPHENYLPHENYL ETHER UG/KG-DRY	34644 8270/3540-G	<350	<340	<110	<2000	<100	<100	<100	<350	<110	<100
CHRYSENE UG/KG-DRY	34323 8270/3540-G	<350	<340	<110	8600	<100	<100	<100	<350	<110	<100
DIBEN(A,H)ANTH'CENE UG/KG-DRY	34559 8270/3540-G	<350	<340	<170	<3300	<160	<170	<170	<350	<170	<170
DIBENZOFURAN UG/KG-DRY	75647 8270/3540-G	<350	<340	<130	8500	<120	<130	<130	<350	<130	<130
DI-N-BUTYL PHTHALATE UG/KG-DRY	39112 8270/3540-G	<350	<340	<75	<1400	530	<73	<73	<350	<74	<73
1,3-DICHLOROBENZENE UG/KG-DRY	34569 8270/3540-G	<350	<340	<75	<1400	<72	<73	<73	<350	<74	<73
1,2-DICHLOROBENZENE UG/KG-DRY	34539 8270/3540-G	<350	<340	<75	<1400	<72	<73	<73	<350	<74	<73
1,4-DICHLOROBENZENE UG/KG-DRY	34574 8270/3540-G	<350	<340	<75	<1400	<72	<73	<73	<350	<74	<73
3,3-DICHL'BENZIDINE UG/KG-DRY	34634 8270/3540-G	<350	<340	<530	<10000	<510	<520	<520	<350	<530	<520
2,4-DICHLOROPHENOL UG/KG-DRY	34604 8270/3540-G	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
DIETHYL PHTHALATE UG/KG-DRY	34339 8270/3540-G	<350	<340	<75	<1400	<72	<73	<73	<350	<74	<73
2,4-DIMETHYLPHENOL UG/KG-DRY	34609 8270/3540-G	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
DIMETHYL PHTHALATE UG/KG-DRY	34344 8270/3540-G	<350	<340	<110	<2000	<100	<100	<100	<350	<110	<100
2,4-DINITROPHENOL UG/KG-DRY	34619 8270/3540-G	<840	<820	<1400	<27000	<1300	<1400	<1400	<850	<1400	<1400

PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
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SAMPLE ID'S		WA04-4-08	WSV2-1-01	WBG3-1-02	EWC1-1-00	WWC2-1-00	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	29	30	31	32	33	34	35	36	37	38
DATE		05/04/94	05/04/94	05/04/94	05/05/94	05/05/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94
TIME		10:50	13:05	14:30	10:35	12:20	12:54	13:30	08:40	09:00	10:55
2,4-DINITROTOLUENE	34614	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
UG/KG-DRY	8270/3540-G										
2,6-DINITROTOLUENE	34629	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
UG/KG-DRY	8270/3540-G										
DI-N-OCTYL PHTHALATE	34599	<350	<340	<150	<2900	1600	<150	<150	<350	<150	<150
UG/KG-DRY	8270/3540-G										
FLUORANTHENE	34379	<350	<340	<75	24000	<72	<73	<73	<350	<74	<73
UG/KG-DRY	8270/3540-G										
FLUORENE	34384	<350	<340	<75	14000	<72	<73	<73	<350	<74	<73
UG/KG-DRY	8270/3540-G										
HEXACHLOROBENZENE	39701	<350	<340	<110	<2000	<100	<100	<100	<350	<110	<100
UG/KG-DRY	8270/3540-G										
HEXACHLOROBUTADIENE	39705	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
UG/KG-DRY	8270/3540-G										
HEXACHLOROCYCLOPENTA	34389	<350	<340	<1100	<20000	<1000	<1000	<1000	<350	<1100	<1000
DIENE UG/KG-DRY	8270/3540-G										
HEXACHLOROETHANE	34399	<350	<340	<110	<2000	<100	<100	<100	<350	<110	<100
UG/KG-DRY	8270/3540-G										
INDENO(1,2,3-CD)	34406	<350	<340	<170	<3300	<160	<170	<170	<350	<170	<170
PYRENE UG/KG-DRY	8270/3540-G										
ISOPHORONE	34411	<350	<340	<75	<1400	<72	<73	<73	<350	<74	<73
UG/KG-DRY	8270/3540-G										
2-METHYLNAPHTHALENE	78868	<350	<340	<110	12000	140	3800	2900	<350	<110	<100
UG/KG-DRY	8270/3540-G										
2-METHYL-4,6-DINITRO	34660	<840	<820	<710	<14000	<680	<700	<700	<850	<700	<700
PHENOL UG/KG-DRY	8270/3540-G										
2-METHYLPHENOL	78872	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
UG/KG-DRY	8270/3540-G										
4-METHYLPHENOL	78803	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
UG/KG-DRY	8270/3540-G										
NAPHTHALENE	34445	<350	<340	<75	8000	250	<73	<73	<350	<74	<73
UG/KG-DRY	8270/3540-G										
2-NITROANILINE	98588	<840	<820	<320	<6100	<310	<310	<310	<850	<320	<310
UG/KG-DRY	8270/3540-G										
3-NITROANILINE	78869	<840	<820	<320	<6100	<310	<310	<310	<850	<320	<310
UG/KG-DRY	8270/3540-G										
4-NITROANILINE	78870	<840	<820	<430	<8200	<410	<420	<420	<850	<420	<420
UG/KG-DRY	8270/3540-G										
NITROBENZENE	34450	<350	<340	<75	<1400	<72	<73	<73	<350	<74	<73
UG/KG-DRY	8270/3540-G										
2-NITROPHENOL	34594	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
UG/KG-DRY	8270/3540-G										

SAMPLE ID'S		WA04-4-08	WSV2-1-01	WBG3-1-02	EWC1-1-00	WWC2-1-00	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	29	30	31	32	33	34	35	36	37	38
DATE		05/04/94	05/04/94	05/04/94	05/05/94	05/05/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94
TIME		10:50	13:05	14:30	10:35	12:20	12:54	13:30	08:40	09:00	10:55
4-NITROPHENOL	34649	<840	<820	<530	<10000	<510	<520	<520	<850	<530	<520
UG/KG-DRY	8270/3540-G										
N-NITROSODI-N-PROPYL	34431	<350	<340	<110	<2000	<100	<100	<100	<350	<110	<100
AMINE UG/KG-DRY	8270/3540-G										
N-NITROSODIPHE'AMINE	34436	<350	<340	<75	<1400	<72	<73	<73	<350	<74	<73
UG/KG-DRY	8270/3540-G										
PENTACHLOROPHENOL	39061	<840	<820	<270	<5100	<260	<260	<260	<850	<260	<260
UG/KG-DRY	8270/3540-G										
PHENANTHRENE	34464	<350	<340	<75	57000	<72	2700	2500	<350	<74	<73
UG/KG-DRY	8270/3540-G										
PHENOL	34695	<350	<340	<150	<2900	<140	<150	<150	<350	<150	<150
UG/KG-DRY	8270/3540-G										
PYRENE	34472	<350	<340	<75	18000	<72	750	850	<350	<74	<73
UG/KG-DRY	8270/3540-G										
1,2,4-TRICH'BENZENE	34554	<350	<340	<110	<2000	<100	<100	<100	<350	<110	<100
UG/KG-DRY	8270/3540-G										
2,4,6-TRICH'PHENOL	34624	<350	<340	<180	<3500	<170	<180	<180	<350	<180	<180
UG/KG-DRY	8270/3540-G										
2,4,5-TRICH'PHENOL	98587	<840	<820	<180	<3500	<170	<180	<180	<850	<180	<180
UG/KG-DRY	8270/3540-G										
ALDRIN	39333	<1.75	<1.71	<0.923	<0.887	<0.885	52.7	54.9	<1.76	<0.701	<0.697
UG/KG-DRY	8080/3540-G										
BHC,A	39076	<1.75	<1.71	<0.710	<0.682	<0.681	<0.697	<0.696	<1.76	<0.701	<0.697
UG/KG-DRY	8080/3540-G										
BHC,B	34257	<1.75	<1.71	<1.35	<1.30	<1.29	<0.697	<0.696	<1.76	<0.701	<0.697
UG/KG-DRY	8080/3540-G										
BHC,D	34262	<1.75	<1.71	<0.710	<0.682	<0.681	<0.697	<0.696	<1.76	<0.701	<0.697
UG/KG-DRY	8080/3540-G										
BHC,G(LINDANE)	39783	<1.75	<1.71	<0.710	<0.682	<0.681	<0.697	<0.696	<1.76	<0.701	<0.697
UG/KG-DRY	8080/3540-G										
CHLORDANE	39351	NRQ	NRQ	<3.55	<3.41	<3.40	<3.49	<3.48	NRQ	<3.51	<3.49
UG/KG-DRY	8080/3540-G										
DDD,PP'	39311	<3.51	<3.42	<0.753	150	15.1	269000	276000	4.78	<0.701	<0.697
UG/KG-DRY	8080/3540-G										
DDE,PP'	39321	<3.51	37.2	<0.710	422	25.0	22100	28000	16.6	<0.701	0.862
UG/KG-DRY	8080/3540-G										
DDT,PP'	39301	<3.51	14.5	<0.753	356	161	695000	611000	184	4.31	7.16
UG/KG-DRY	8080/3540-G										
DIELDRIN	39383	<3.51	<3.42	<0.852	<0.819	<0.817	1980	2630	8.34	<0.701	0.856
UG/KG-DRY	8080/3540-G										
ENDOSULFAN,A	34364	<1.75	<1.71	<0.710	<0.682	<0.681	<0.697	<0.696	<1.76	<0.701	<0.697
UG/KG-DRY	8080/3540-G										

PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S			WA04-4-08	WSV2-1-01	WBG3-1-02	EWC1-1-00	WWC2-1-00	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10
PARAMETERS		STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
	UNITS	METHOD	29	30	31	32	33	34	35	36	37	38
DATE			05/04/94	05/04/94	05/04/94	05/05/94	05/05/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94
TIME			10:50	13:05	14:30	10:35	12:20	12:54	13:30	08:40	09:00	10:55
ENDOSULFAN,B		34359	<3.51	<3.42	<0.710	<0.682	<0.681	<0.697	<0.696	<3.52	<0.701	<0.697
	UG/KG-DRY	8080/3540-G										
ENDOSULFAN SULFATE		34354	<3.51	<3.42	<0.710	<0.682	<0.681	<0.697	<0.696	<3.52	<0.701	<0.697
	UG/KG-DRY	8080/3540-G										
ENDRIN		39393	<3.51	<3.42	<0.745	<0.716	<0.715	<0.697	<0.696	<3.52	<0.701	<0.697
	UG/KG-DRY	8080/3540-G										
ENDRIN ALDEHYDE		34369	<3.51	<3.42	<0.710	<0.682	<0.681	<0.697	<0.696	<3.52	<0.701	<0.697
	UG/KG-DRY	8080/3540-G										
HEPTACHLOR		39413	<1.75	<1.71	<0.710	<0.682	<0.681	<0.697	<0.696	<1.76	<0.701	<0.697
	UG/KG-DRY	8080/3540-G										
HEPTACHLOR EPOXIDE		39423	<1.75	<1.71	<0.710	<0.682	<0.681	<0.697	<0.696	<1.76	<0.701	<0.697
	UG/KG-DRY	8080/3540-G										
METHOXYCHLOR		39481	<17.5	<17.1	<1.14	<1.10	<1.10	<0.697	<0.696	<17.6	<0.701	<0.697
	UG/KG-DRY	8080/3540-G										
TOXAPHENE		39403	<175	<171	<71.0	<68.2	<68.1	<69.7	<69.6	<176	<70.1	<69.7
	UG/KG-DRY	8080/3540-G										
PCB-1016		39514	<35.1	<34.2	<14.2	<13.6	<13.6	<13.9	<13.9	<35.2	<14.0	<13.9
	UG/KG-DRY	8080/3540-G										
PCB-1221		39491	<70.1	<68.3	<14.2	<13.6	<13.6	<13.9	<13.9	<70.5	<14.0	<13.9
	UG/KG-DRY	8080/3540-G										
PCB-1232		39495	<35.1	<34.2	<14.2	<13.6	<13.6	<13.9	<13.9	<35.2	<14.0	<13.9
	UG/KG-DRY	8080/3540-G										
PCB-1242		39499	<35.1	<34.2	<14.2	<13.6	<13.6	<13.9	<13.9	<35.2	<14.0	<13.9
	UG/KG-DRY	8080/3540-G										
PCB-1248		39503	<35.1	<34.2	<14.2	<13.6	<13.6	<13.9	<13.9	<35.2	<14.0	<13.9
	UG/KG-DRY	8080/3540-G										
PCB-1254		39507	<35.1	<34.2	<14.2	<13.6	<13.6	<13.9	<13.9	<35.2	<14.0	<13.9
	UG/KG-DRY	8080/3540-G										
PCB-1260		39511	<35.1	<34.2	<14.2	<13.6	<13.6	<13.9	<13.9	<35.2	<14.0	<13.9
	UG/KG-DRY	8080/3540-G										

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Soils Data, Hits Only

Sorted on Site ID

Environmental Science & Engineering DATE 05/24/94 STATUS : PAGE 1
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		EA01-1-10	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10	WA04-1-05	WA04-2-12	WA04-3-20	WA04-4-08	WA05-1-04	WA05-2-03	WA05-3-04	WA07-1-01
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	22	34	35	36	37	38	15	16	28	29	12	13	14	10
DATE		05/02/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94	04/25/94	04/25/94	05/04/94	05/04/94	04/23/94	04/25/94	04/25/94	04/22/94
TIME		11:15	12:54	13:30	08:40	09:00	10:55	13:15	14:00	08:25	10:50	16:00	09:00	09:10	15:45
SITE #	96274	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L
	0														
CHAIN OF CUSTODY	96793	10	17	17	19	19	19	7	7	13	13	3	7	7	3
#	0														
SCREEN,GR. ALPHA,	96636	2.0	25.4	--	22.9	--	21.9	45.8	--	--	2.8	11.8	29.2	43.6	18.5
(ESTIMATE)NCI/KG-WET	R														
SCREEN,GR. BETA,	96637	35.0	16.0	21.2	34.1	18.9	23.3	27.0	--	31.8	26.6	17.0	37.6	8.1	12.6
(ESTIMATE)NCI/KG-WET	R														
MOISTURE	70320	8.9	4.4	4.2	5.4	4.9	4.4	3.8	4.5	2.6	4.9	2.8	3.2	5.4	3.3
%WET WT	I														
HYDROCARBONS,PETROL	98233	4920	437	428	--	--	--	2040	381	--	82.0	--	128	--	125
MG/KG-DRY	AISON														
ARSENIC	1003	8.12	5.42	5.54	7.97	7.75	7.42	5.02	3.96	1.44	4.00	2.54	1.89	4.68	3.68
MG/KG-DRY	7060-G														
SELENIUM	1148	0.514	--	0.340	--	--	--	--	--	--	--	--	--	--	--
MG/KG-DRY	7740-G														
MERCURY	71921	0.124	--	--	--	--	--	--	--	--	--	--	--	--	--
MG/KG-DRY	7471M-G														
BARIUM	1008	119	125	107	151	139	131	112	101	79.9	109	82.3	82.9	125	96.0
MG/KG-DRY	6010-G														
CHROMIUM	1029	15.4	14.9	16.0	20.3	21.3	17.0	10.4	9.20	10.3	10.2	9.22	14.6	7.67	11.3
MG/KG-DRY	6010-G														
LEAD	1052	11.2	24.5	23.6	13.9	12.1	10.6	15.6	12.0	--	--	--	111	--	39.6
MG/KG-DRY	6010-G														
ACETONE	75059	--	--	--	--	--	--	--	11	--	--	--	--	--	--
UG/KG-DRY	8260-G														
1,1,2-TRICHL'ETHANE	34514	--	--	--	--	--	--	--	--	--	--	--	9.5	--	--
UG/KG-DRY	8260-G														
ACENAPHTHENE	34208	--	--	220	--	--	--	--	--	--	--	--	--	--	--
UG/KG-DRY	8270/3540-G														
BIS(2-ETHYLHEXYL)	39102	--	--	--	--	--	--	--	160	--	--	--	--	--	--
PHTHALATEUG/KG-DRY	8270/3540-G														
DIBENZOFURAN	75647	--	--	--	--	--	--	380	--	--	--	--	--	--	--
UG/KG-DRY	8270/3540-G														
2-METHYLNAPHTHALENE	78868	77000	3800	2900	--	--	--	3600	--	--	--	--	--	--	--
UG/KG-DRY	8270/3540-G														
NAPHTHALENE	34445	3200	--	--	--	--	--	960	--	--	--	--	--	--	--
UG/KG-DRY	8270/3540-G														
PHENANTHRENE	34464	16000	2700	2500	--	--	--	570	--	--	--	--	--	--	--
UG/KG-DRY	8270/3540-G														
PYRENE	34472	5400	750	850	--	--	--	--	--	--	--	--	--	--	--
UG/KG-DRY	8270/3540-G														

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Environmental Science & Engineering DATE 05/24/94 STATUS : PAGE 2
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S			EA01-1-10	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10	WA04-1-05	WA04-2-12	WA04-3-20	WA04-4-08	WA05-1-04	WA05-2-03	WA05-3-04	WA07-1-01
PARAMETERS		STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
	UNITS	METHOD	22	34	35	36	37	38	15	16	28	29	12	13	14	10
DATE			05/02/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94	04/25/94	04/25/94	05/04/94	05/04/94	04/23/94	04/25/94	04/25/94	04/22/94
TIME			11:15	12:54	13:30	08:40	09:00	10:55	13:15	14:00	08:25	10:50	16:00	09:00	09:10	15:45
ALDRIN		39333	--	52.7	54.9	--	--	--	--	--	--	--	--	--	--	--
	UG/KG-DRY	8080/3540-G														
CHLORDANE		39351	--	--	--	NRQ	--	--	--	--	--	NRQ	--	--	--	37700
	UG/KG-DRY	8080/3540-G														
DDD,PP'		39311	786000	269000	276000	4.78	--	--	31.0	115	--	--	--	--	--	42700
	UG/KG-DRY	8080/3540-G														
DDE,PP'		39321	44400	22100	28000	16.6	--	0.862	8.92	79.0	--	--	3.18	5.23	--	3330
	UG/KG-DRY	8080/3540-G														
DDT,PP'		39301	2080000	695000	611000	184	4.31	7.16	67.8	284	--	--	6.72	5.54	--	254000
	UG/KG-DRY	8080/3540-G														
DIELDRIN		39383	--	1980	2630	8.34	--	0.856	--	--	--	--	--	--	--	--
	UG/KG-DRY	8080/3540-G														
PCB-1254		39507	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0
	UG/KG-DRY	8080/3540-G														

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Environmental Science & Engineering DATE 05/24/94 STATUS : PAGE 3
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA07-2-05	EA11-1-07	EA12-1-10	EA12-2-12	EA14-1-01	EA14-2-01	WA16-1-02	WA16-2-03	WA17-1-03	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA20-1-04
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	11	21	19	20	17	18	8	9	7	3	4	5	6	1
DATE		04/23/94	04/29/94	04/27/94	04/27/94	04/27/94	04/27/94	04/22/94	04/22/94	04/21/94	04/19/94	04/20/94	04/20/94	04/20/94	04/19/94
TIME		10:00	08:22	14:00	15:10	11:50	12:10	09:30	10:05	15:45	16:48	08:40	13:45	14:15	13:25
SITE #	96274 0	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L
CHAIN OF CUSTODY #	96793 0	3	10	8	8	8	8	4	4	4	1	1	2	2	1
SCREEN,GR. ALPHA, (ESTIMATE)NCI/KG-WET	96636 R	27.0	11.8	--	--	14.0	--	NA	NA	NA	--	18.7	11.0	--	20.9
SCREEN,GR. BETA, (ESTIMATE)NCI/KG-WET	96637 R	22.8	21.9	--	23.1	25.5	--	NA	NA	NA	--	16.4	17.2	27.7	29.2
MOISTURE %WET WT	70320 1	5.4	3.8	3.8	4.2	3.8	3.6	4.5	5.5	14.8	4.8	3.0	3.0	3.0	2.7
HYDROCARBONS,PETROL MG/KG-DRY	98233 AISON	--	43.2	165000	--	--	--	3610	--	85900	--	5850	--	--	--
ARSENIC MG/KG-DRY	1003 7060-G	8.20	7.67	5.84	6.94	6.88	6.98	4.32	8.18	41.6	3.21	2.86	3.75	3.52	2.26
MERCURY MG/KG-DRY	71921 7471M-G	--	--	--	--	--	--	--	--	0.116	--	--	--	--	--
BARIUM MG/KG-DRY	1008 6010-G	147	120	119	145	105	111	90.9	105	91.9	87.4	96.2	100.0	107	80.0
CADMIUM MG/KG-DRY	1028 6010-G	--	--	--	--	--	--	0.671	--	--	--	1.38	--	--	--
CHROMIUM MG/KG-DRY	1029 6010-G	18.2	19.1	13.8	15.6	14.1	14.9	25.0	10.7	14.5	9.02	7.66	7.45	5.56	6.40
LEAD MG/KG-DRY	1052 6010-G	11.9	--	36.0	13.8	10.4	--	217	--	--	--	61.8	--	11.6	--
SILVER MG/KG-DRY	1078 6010-G	--	--	1.05	--	--	--	--	--	--	--	--	--	--	--
METHYLENE CHLORIDE UG/KG-DRY	34426 8260-G	--	--	--	--	--	--	--	--	--	--	--	--	--	7.0
METHYLISOBUTYLKETONE UG/KG-DRY	75169 8260-G	--	--	--	--	--	--	--	--	78	--	--	--	--	--
XYLENE,TOTAL UG/KG-DRY	45510 8260-G	--	NRQ	--	--	--	--	--	--	--	--	--	--	5.2	--
BHC,G(LINDANE) UG/KG-DRY	39783 8080/3540-G	--	--	5.38	--	--	--	--	--	--	--	--	--	--	--
DDD,PP' UG/KG-DRY	39311 8080/3540-G	--	--	2780	--	3790	1630	--	--	--	--	54.7	--	--	62.7
DDE,PP' UG/KG-DRY	39321 8080/3540-G	--	--	3650	146	2130	1870	34.4	1.59	83.1	--	37.4	74.0	85.5	298
DDT,PP' UG/KG-DRY	39301 8080/3540-G	--	--	5910	167	11600	5600	39.0	--	879	--	177	64.6	78.6	125
DIELDRIN UG/KG-DRY	39383 8080/3540-G	--	--	64.3	3.53	--	--	--	--	--	--	--	--	--	--

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Environmental Science & Engineering DATE 05/24/94 STATUS : PAGE 4
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA07-2-05	EA11-1-07	EA12-1-10	EA12-2-12	EA14-1-01	EA14-2-01	WA16-1-02	WA16-2-03	WA17-1-03	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA20-1-04
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	11	21	19	20	17	18	8	9	7	3	4	5	6	1
DATE		04/23/94	04/29/94	04/27/94	04/27/94	04/27/94	04/27/94	04/22/94	04/22/94	04/21/94	04/19/94	04/20/94	04/20/94	04/20/94	04/19/94
TIME		10:00	08:22	14:00	15:10	11:50	12:10	09:30	10:05	15:45	16:48	08:40	13:45	14:15	13:25
ENDOSULFAN,B	34359	--	--	--	--	--	--	--	--	--	--	4.52	--	--	--
UG/KG-DRY	8080/3540-G														
METHOXYCHLOR	39481	--	--	--	--	--	--	--	--	--	--	1.92	--	--	--
UG/KG-DRY	8080/3540-G														
PCB-1248	39503	--	--	--	--	--	--	--	--	--	--	344	--	--	--
UG/KG-DRY	8080/3540-G														
PCB-1254	39507	0.0	--	--	--	--	--	--	--	--	--	344	--	--	--
UG/KG-DRY	8080/3540-G														

Environmental Science & Engineering DATE 05/24/94 STATUS : PAGE 5
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA20-2-06	EBG1-1-02	WBG2-1-02	WBG2-2-02	WBG3-1-02	OCS1-1-00	ESV1-1-01	WSV2-1-01	EWC1-1-00	WWC2-1-00
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	2	24	26	27	31	23	25	30	32	33
DATE		04/19/94	05/03/94	05/03/94	05/03/94	05/04/94	05/03/94	05/03/94	05/04/94	05/05/94	05/05/94
TIME		14:10	11:30	15:00	15:25	14:30	08:15	12:35	13:05	10:35	12:20
SITE #	96274 0	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L
CHAIN OF CUSTODY #	96793 0	1	12	12	12	13	11	12	13	15	15
SCREEN,GR. ALPHA, (ESTIMATE)NCI/KG-WET	96636 R	--	9.2	--	--	--	24.3	10.9	--	--	4.2
SCREEN,GR. BETA, (ESTIMATE)NCI/KG-WET	96637 R	--	17.3	--	--	21.0	24.5	25.9	--	--	10.4
MOISTURE %WET WT	70320 I	3.2	6.5	5.8	6.0	6.1	5.5	2.8	2.4	2.3	2.1
HYDROCARBONS,PETROL MG/KG-DRY	98233 AISON	--	--	--	--	--	--	--	--	255	57.2
ARSENIC MG/KG-DRY	1003 7060-G	3.01	6.71	4.71	5.11	3.07	4.87	3.89	1.64	3.64	1.82
BARIUM MG/KG-DRY	1008 6010-G	61.9	120	114	117	133	96.2	73.2	87.9	142	171
CADMIUM MG/KG-DRY	1028 6010-G	--	--	--	--	--	--	--	--	1.55	1.77
CHROMIUM MG/KG-DRY	1029 6010-G	6.21	7.15	7.69	7.47	7.66	11.3	8.15	6.44	9.42	56.4
LEAD MG/KG-DRY	1052 6010-G	--	--	--	--	--	--	27.2	--	1140	1810
METHYLENE CHLORIDE UG/KG-DRY	34426 8260-G	7.1	--	--	--	--	--	--	--	--	--
XYLENE,TOTAL UG/KG-DRY	45510 8260-G	--	--	--	--	--	--	--	NRQ	--	220
ACENAPHTHENE UG/KG-DRY	34208 8270/3540-G	--	--	--	--	--	--	--	--	9700	--
ANTHRACENE UG/KG-DRY	34223 8270/3540-G	--	--	--	--	--	--	--	--	14000	--
BENZO(A)ANTHRACENE UG/KG-DRY	34529 8270/3540-G	--	--	--	--	--	--	--	--	8300	--
BENZO(B)FLUORANTHENE UG/KG-DRY	34233 8270/3540-G	--	--	--	--	--	--	--	--	6800	--
BENZO(K)FLUORANTHENE UG/KG-DRY	34245 8270/3540-G	--	--	--	--	--	--	--	--	2300	--
BENZO(A)PYRENE UG/KG-DRY	34250 8270/3540-G	--	--	--	--	--	--	--	--	5300	--
BIS(2-ETHYLHEXYL) PHTHALATEUG/KG-DRY	39102 8270/3540-G	--	--	--	120	4500	--	--	--	--	1400
CHRYSENE UG/KG-DRY	34323 8270/3540-G	--	--	--	--	--	--	--	--	8600	--

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.SID ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA20-2-06	EBG1-1-02	WBG2-1-02	WBG2-2-02	WBG3-1-02	OCS1-1-00	ESV1-1-01	WSV2-1-01	EWC1-1-00	WWC2-1-00
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	2	24	26	27	31	23	25	30	32	33
DATE		04/19/94	05/03/94	05/03/94	05/03/94	05/04/94	05/03/94	05/03/94	05/04/94	05/05/94	05/05/94
TIME		14:10	11:30	15:00	15:25	14:30	08:15	12:35	13:05	10:35	12:20
DIBENZOFURAN	75647	--	--	--	--	--	--	--	--	8500	--
UG/KG-DRY	8270/3540-G										
DI-N-BUTYL PHTHALATE	39112	--	--	--	--	--	--	--	--	--	530
UG/KG-DRY	8270/3540-G										
DI-N-OCTYL PHTHALATE	34599	--	--	--	--	--	--	--	--	--	1600
UG/KG-DRY	8270/3540-G										
FLUORANTHENE	34379	--	--	--	--	--	--	--	--	24000	--
UG/KG-DRY	8270/3540-G										
FLUORENE	34384	--	--	--	--	--	--	--	--	14000	--
UG/KG-DRY	8270/3540-G										
2-METHYLNAPHTHALENE	7886B	--	--	--	--	--	--	--	--	12000	140
UG/KG-DRY	8270/3540-G										
NAPHTHALENE	34445	--	--	--	--	--	--	--	--	8000	250
UG/KG-DRY	8270/3540-G										
PHENANTHRENE	34464	--	--	--	--	--	--	--	--	57000	--
UG/KG-DRY	8270/3540-G										
PYRENE	34472	--	--	--	--	--	--	--	--	18000	--
UG/KG-DRY	8270/3540-G										
DDD,PP'	39311	--	8.02	--	--	--	--	597	--	150	15.1
UG/KG-DRY	8080/3540-G										
DDE,PP'	39321	--	1.57	--	--	--	--	1660	37.2	422	25.0
UG/KG-DRY	8080/3540-G										
DDT,PP'	39301	--	12.9	1.66	1.47	--	--	806	14.5	356	161
UG/KG-DRY	8080/3540-G										

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Soils Data, Hits Only

Sorted on Collection Date

Environmental Science & Engineering DATE 05/24/94 STATUS : PAGE 1
PROJECT NUMBER 19440220 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA20-1-04	WA20-2-06	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA17-1-03	WA16-1-02	WA16-2-03	WA07-1-01	WA07-2-05	WA05-1-04	WA05-2-03	WA05-3-04
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	1	2	3	4	5	6	7	8	9	10	11	12	13	14
DATE		04/19/94	04/19/94	04/19/94	04/20/94	04/20/94	04/20/94	04/21/94	04/22/94	04/22/94	04/22/94	04/23/94	04/23/94	04/25/94	04/25/94
TIME		13:25	14:10	16:48	08:40	13:45	14:15	15:45	09:30	10:05	15:45	10:00	16:00	09:00	09:10
SITE #	96274 0	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L
CHAIN OF CUSTODY #	96793 0	1	1	1	1	2	2	4	4	4	3	3	3	7	7
SCREEN,GR. ALPHA, (ESTIMATE)NCI/KG-WET	96636 R	20.9	--	--	18.7	11.0	--	NA	NA	NA	18.5	27.0	11.8	29.2	43.6
SCREEN,GR. BETA, (ESTIMATE)NCI/KG-WET	96637 R	29.2	--	--	16.4	17.2	27.7	NA	NA	NA	12.6	22.8	17.0	37.6	8.1
MOISTURE %WET WT	70320 I	2.7	3.2	4.8	3.0	3.0	3.0	14.8	4.5	5.5	3.3	5.4	2.8	3.2	5.4
HYDROCARBONS,PETROL MG/KG-DRY	98233 AISON	--	--	--	5850	--	--	85900	3610	--	125	--	--	128	--
ARSENIC MG/KG-DRY	1003 7060-G	2.26	3.01	3.21	2.86	3.75	3.52	41.6	4.32	8.18	3.68	8.20	2.54	1.89	4.68
MERCURY MG/KG-DRY	71921 7471M-G	--	--	--	--	--	--	0.116	--	--	--	--	--	--	--
BARIUM MG/KG-DRY	1008 6010-G	80.0	61.9	87.4	96.2	100.0	107	91.9	90.9	105	96.0	147	82.3	82.9	125
CADMIUM MG/KG-DRY	1028 6010-G	--	--	--	1.38	--	--	--	0.671	--	--	--	--	--	--
CHROMIUM MG/KG-DRY	1029 6010-G	6.40	6.21	9.02	7.66	7.45	5.56	14.5	25.0	10.7	11.3	18.2	9.22	14.6	7.67
LEAD MG/KG-DRY	1052 6010-G	--	--	--	61.8	--	11.6	--	217	--	39.6	11.9	--	111	--
METHYLENE CHLORIDE UG/KG-DRY	34426 8260-G	7.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--
METHYLISOBUTYLKETONE UG/KG-DRY	75169 8260-G	--	--	--	--	--	--	78	--	--	--	--	--	--	--
1,1,2-TRICHL'ETHANE UG/KG-DRY	34514 8260-G	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--
XYLENE,TOTAL UG/KG-DRY	45510 8260-G	--	--	--	--	--	5.2	--	--	--	--	--	--	--	--
CHLORDANE UG/KG-DRY	39351 8080/3540-G	--	--	--	--	--	--	--	--	--	37700	--	--	--	--
DDD,PP' UG/KG-DRY	39311 8080/3540-G	62.7	--	--	54.7	--	--	--	--	--	42700	--	--	--	--
DDE,PP' UG/KG-DRY	39321 8080/3540-G	298	--	--	37.4	74.0	85.5	83.1	34.4	1.59	3330	--	3.18	5.23	--
DDT,PP' UG/KG-DRY	39301 8080/3540-G	125	--	--	177	64.6	78.6	879	39.0	--	254000	--	6.72	5.54	--
ENDOSULFAN,B UG/KG-DRY	34359 8080/3540-G	--	--	--	4.52	--	--	--	--	--	--	--	--	--	--

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Environmental Science & Engineering DATE 05/24/94 STATUS : PAGE 2
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S			WA20-1-04	WA20-2-06	WA19-1-08	WA19-2-07	WA19-3-05	WA19-4-05	WA17-1-03	WA16-1-02	WA16-2-03	WA07-1-01	WA07-2-05	WA05-1-04	WA05-2-03	WA05-3-04
PARAMETERS		STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
	UNITS	METHOD	1	2	3	4	5	6	7	8	9	10	11	12	13	14
DATE			04/19/94	04/19/94	04/19/94	04/20/94	04/20/94	04/20/94	04/21/94	04/22/94	04/22/94	04/22/94	04/23/94	04/23/94	04/25/94	04/25/94
TIME			13:25	14:10	16:48	08:40	13:45	14:15	15:45	09:30	10:05	15:45	10:00	16:00	09:00	09:10
METHOXYCHLOR		39481	--	--	--	1.92	--	--	--	--	--	--	--	--	--	--
	UG/KG-DRY	8080/3540-G														
PCB-1248		39503	--	--	--	344	--	--	--	--	--	--	--	--	--	--
	UG/KG-DRY	8080/3540-G														
PCB-1254		39507	--	--	--	344	--	--	--	--	--	0.0	0.0	0.0	--	--
	UG/KG-DRY	8080/3540-G														

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9413551.1801

Environmental Science & Engineering DATE 05/24/94 STATUS : PAGE 3
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA04-1-05	WA04-2-12	EA14-1-01	EA14-2-01	EA12-1-10	EA12-2-12	EA11-1-07	EA01-1-10	OCS1-1-00	EBG1-1-02	ESV1-1-01	WBG2-1-02	WBG2-2-02	WA04-3-20
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	15	16	17	18	19	20	21	22	23	24	25	26	27	28
DATE		04/25/94	04/25/94	04/27/94	04/27/94	04/27/94	04/27/94	04/29/94	05/02/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/04/94
TIME		13:15	14:00	11:50	12:10	14:00	15:10	08:22	11:15	08:15	11:30	12:35	15:00	15:25	08:25
SITE #	96274 0	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L
CHAIN OF CUSTODY #	96793 0	7	7	8	8	8	8	10	10	11	12	12	12	12	13
SCREEN,GR. ALPHA, (ESTIMATE)NCI/KG-WET	96636 R	45.8	--	14.0	--	--	--	11.8	2.0	24.3	9.2	10.9	--	--	--
SCREEN,GR. BETA, (ESTIMATE)NCI/KG-WET	96637 R	27.0	--	25.5	--	--	23.1	21.9	35.0	24.5	17.3	25.9	--	--	31.8
MOISTURE %WET WT	70320 I	3.8	4.5	3.8	3.6	3.8	4.2	3.8	8.9	5.5	6.5	2.8	5.8	6.0	2.6
HYDROCARBONS,PETROL MG/KG-DRY	98233 AISON	2040	381	--	--	165000	--	43.2	4920	--	--	--	--	--	--
ARSENIC MG/KG-DRY	1003 7060-G	5.02	3.96	6.88	6.98	5.84	6.94	7.67	8.12	4.87	6.71	3.89	4.71	5.11	1.44
SELENIUM MG/KG-DRY	1148 7740-G	--	--	--	--	--	--	--	0.514	--	--	--	--	--	--
MERCURY MG/KG-DRY	71921 7471M-G	--	--	--	--	--	--	--	0.124	--	--	--	--	--	--
BARIUM MG/KG-DRY	1008 6010-G	112	101	105	111	119	145	120	119	96.2	120	73.2	114	117	79.9
CHROMIUM MG/KG-DRY	1029 6010-G	10.4	9.20	14.1	14.9	13.8	15.6	19.1	15.4	11.3	7.15	8.15	7.69	7.47	10.3
LEAD MG/KG-DRY	1052 6010-G	15.6	12.0	10.4	--	36.0	13.8	--	11.2	--	--	27.2	--	--	--
SILVER MG/KG-DRY	1078 6010-G	--	--	--	--	1.05	--	--	--	--	--	--	--	--	--
ACETONE UG/KG-DRY	75059 8260-G	--	11	--	--	--	--	--	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL) PHTHALATEUG/KG-DRY	39102 8270/3540-G	--	160	--	--	--	--	--	--	--	--	--	--	120	--
DIBENZOFURAN UG/KG-DRY	75647 8270/3540-G	380	--	--	--	--	--	--	--	--	--	--	--	--	--
2-METHYLNAPHTHALENE UG/KG-DRY	78868 8270/3540-G	3600	--	--	--	--	--	--	77000	--	--	--	--	--	--
NAPHTHALENE UG/KG-DRY	34445 8270/3540-G	960	--	--	--	--	--	--	3200	--	--	--	--	--	--
PHENANTHRENE UG/KG-DRY	34464 8270/3540-G	570	--	--	--	--	--	--	16000	--	--	--	--	--	--
PYRENE UG/KG-DRY	34472 8270/3540-G	--	--	--	--	--	--	--	5400	--	--	--	--	--	--
BHC,G(LINDANE) UG/KG-DRY	39783 8080/3540-G	--	--	--	--	5.38	--	--	--	--	--	--	--	--	--

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Environmental Science & Engineering DATE 05/24/94 STATUS : PAGE 4
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S			WA04-1-05	WA04-2-12	EA14-1-01	EA14-2-01	EA12-1-10	EA12-2-12	EA11-1-07	EA01-1-10	OCS1-1-00	EBG1-1-02	ESV1-1-01	WBG2-1-02	WBG2-2-02	WA04-3-20
PARAMETERS		STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
	UNITS	METHOD	15	16	17	18	19	20	21	22	23	24	25	26	27	28
DATE			04/25/94	04/25/94	04/27/94	04/27/94	04/27/94	04/27/94	04/29/94	05/02/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/04/94
TIME			13:15	14:00	11:50	12:10	14:00	15:10	08:22	11:15	08:15	11:30	12:35	15:00	15:25	08:25
DDD,PP'		39311	31.0	115	3790	1630	2780	--	--	786000	--	8.02	597	--	--	--
	UG/KG-DRY	8080/3540-G														
DDE,PP'		39321	8.92	79.0	2130	1870	3650	146	--	44400	--	1.57	1660	--	--	--
	UG/KG-DRY	8080/3540-G														
DDT,PP'		39301	67.8	284	11600	5600	5910	167	--	2080000	--	12.9	806	1.66	1.47	--
	UG/KG-DRY	8080/3540-G														
DIELDRIN		39383	--	--	--	--	64.3	3.53	--	--	--	--	--	--	--	--
	UG/KG-DRY	8080/3540-G														

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Environmental Science & Engineering DATE 05/24/94 STATUS :
PROJECT NUMBER 19440220 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA04-4-08	WSV2-1-01	WBG3-1-02	EWC1-1-00	WWC2-1-00	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10
PARAMETERS	STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
UNITS	METHOD	29	30	31	32	33	34	35	36	37	38
DATE		05/04/94	05/04/94	05/04/94	05/05/94	05/05/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94
TIME		10:50	13:05	14:30	10:35	12:20	12:54	13:30	08:40	09:00	10:55
SITE #	962740	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L	94H06L
CHAIN OF CUSTODY #	967930	13	13	13	15	15	17	17	19	19	19
SCREEN,GR. ALPHA, (ESTIMATE)NCI/KG-WET	96636R	2.8	--	--	--	4.2	25.4	--	22.9	--	21.9
SCREEN,GR. BETA, (ESTIMATE)NCI/KG-WET	96637R	26.6	--	21.0	--	10.4	16.0	21.2	34.1	18.9	23.3
MOISTURE %WET WT	70320I	4.9	2.4	6.1	2.3	2.1	4.4	4.2	5.4	4.9	4.4
HYDROCARBONS,PETROL MG/KG-DRY	98233AISON	82.0	--	--	255	57.2	437	428	--	--	--
ARSENIC MG/KG-DRY	1003 7060-G	4.00	1.64	3.07	3.64	1.82	5.42	5.54	7.97	7.75	7.42
SELENIUM MG/KG-DRY	1148 7740-G	--	--	--	--	--	--	0.340	--	--	--
BARIUM MG/KG-DRY	100B 6010-G	109	87.9	133	142	171	125	107	151	139	131
CADMIUM MG/KG-DRY	1028 6010-G	--	--	--	1.55	1.77	--	--	--	--	--
CHROMIUM MG/KG-DRY	1029 6010-G	10.2	6.44	7.66	9.42	56.4	14.9	16.0	20.3	21.3	17.0
LEAD MG/KG-DRY	1052 6010-G	--	--	--	1140	1810	24.5	23.6	13.9	12.1	10.6
XYLENE,TOTAL UG/KG-DRY	45510 8260-G	NRQ	NRQ	--	--	220	--	--	NRQ	--	--
ACENAPHTHENE UG/KG-DRY	34208 8270/3540-G	--	--	--	9700	--	--	220	--	--	--
ANTHRACENE UG/KG-DRY	34223 8270/3540-G	--	--	--	14000	--	--	--	--	--	--
BENZO(A)ANTHRACENE UG/KG-DRY	34529 8270/3540-G	--	--	--	8300	--	--	--	--	--	--
BENZO(B)FLUORANTHENE UG/KG-DRY	34233 8270/3540-G	--	--	--	6800	--	--	--	--	--	--
BENZO(K)FLUORANTHENE UG/KG-DRY	34245 8270/3540-G	--	--	--	2300	--	--	--	--	--	--
BENZO(A)PYRENE UG/KG-DRY	34250 8270/3540-G	--	--	--	5300	--	--	--	--	--	--
BIS(2-ETHYLHEXYL) PHTHALATEUG/KG-DRY	39102 8270/3540-G	--	--	4500	--	1400	--	--	--	--	--
CHRYSENE UG/KG-DRY	34323 8270/3540-G	--	--	--	8600	--	--	--	--	--	--

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Environmental Science & Engineering DATE 05/24/94 STATUS : PAGE 6
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSS PROJECT MANAGER E.H. MANSFIELD
CDMHNSS.NUM ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S			WA04-4-08	WSV2-1-01	WBG3-1-02	EWC1-1-00	WWC2-1-00	EA01-2-05	EA01-3-05	EA01-4-14	EA01-5-12	EA01-6-10
PARAMETERS		STORET	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS	CDMHNSS
	UNITS	METHOD	29	30	31	32	33	34	35	36	37	38
DATE			05/04/94	05/04/94	05/04/94	05/05/94	05/05/94	05/11/94	05/11/94	05/13/94	05/13/94	05/13/94
TIME			10:50	13:05	14:30	10:35	12:20	12:54	13:30	08:40	09:00	10:55
DIBENZOFURAN		75647	--	--	--	8500	--	--	--	--	--	--
	UG/KG-DRY	8270/3540-G										
DI-N-BUTYL PHTHALATE		39112	--	--	--	--	530	--	--	--	--	--
	UG/KG-DRY	8270/3540-G										
DI-N-OCTYL PHTHALATE		34599	--	--	--	--	1600	--	--	--	--	--
	UG/KG-DRY	8270/3540-G										
FLUORANTHENE		34379	--	--	--	24000	--	--	--	--	--	--
	UG/KG-DRY	8270/3540-G										
FLUORENE		34384	--	--	--	14000	--	--	--	--	--	--
	UG/KG-DRY	8270/3540-G										
2-METHYLNAPHTHALENE		78868	--	--	--	12000	140	3800	2900	--	--	--
	UG/KG-DRY	8270/3540-G										
NAPHTHALENE		34445	--	--	--	8000	250	--	--	--	--	--
	UG/KG-DRY	8270/3540-G										
PHENANTHRENE		34464	--	--	--	57000	--	2700	2500	--	--	--
	UG/KG-DRY	8270/3540-G										
PYRENE		34472	--	--	--	18000	--	750	850	--	--	--
	UG/KG-DRY	8270/3540-G										
ALDRIN		39333	--	--	--	--	--	52.7	54.9	--	--	--
	UG/KG-DRY	8080/3540-G										
DDD,PP'		39311	--	--	--	150	15.1	269000	276000	4.78	--	--
	UG/KG-DRY	8080/3540-G										
DDE,PP'		39321	--	37.2	--	422	25.0	22100	28000	16.6	--	0.862
	UG/KG-DRY	8080/3540-G										
DDT,PP'		39301	--	14.5	--	356	161	695000	611000	184	4.31	7.16
	UG/KG-DRY	8080/3540-G										
DIELDRIN		39383	--	--	--	--	--	1980	2630	8.34	--	0.856
	UG/KG-DRY	8080/3540-G										

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Waters Data

Environmental Science & Engineering DATE 05/24/94 STATUS :FINAL PAGE 1
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSW PROJECT MANAGER E.H. MANSFIELD
ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA05-1-EB1	WA05-1-TB1	WBG3-1-TB2	WSV2-1-EB2	EWW1-1-00
PARAMETERS	STORET	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW
UNITS	METHOD	1	2	4	11	13
DATE		04/23/94	04/25/94	05/04/94	05/09/94	05/13/94
TIME		15:15	08:15	15:30	08:35	12:15
SITE #	96274	94H06L	94H06L	94H06L	94H06L	94H06L
	0					
CHAIN OF CUSTODY	96793	6	3	13	16	20
#	0					
HYDROCARBONS,PETRO	45501	<0.17	NRQ	NRQ	<0.17	4.21
(TRPH) MG/L	418.1-G					
ARSENIC,TOTAL	1002	<2.5	NRQ	NRQ	<2.5	3.9
UG/L	7060-G					
SELENIUM,TOTAL	1147	<2.5	NRQ	NRQ	<2.5	<2.5
UG/L	7740-G					
MERCURY,TOTAL	71900	<0.20	NRQ	NRQ	<0.20	<0.20
UG/L	7470-G					
BARIUM,TOTAL	1007	<20.0	NRQ	NRQ	<20.0	87.2
UG/L	6010-G					
CADMIUM,TOTAL	1027	<5.0	NRQ	NRQ	<5.0	<5.0
UG/L	6010-G					
CHROMIUM,TOTAL	1034	<10.0	NRQ	NRQ	<10.0	19.5
UG/L	6010-G					
LEAD,TOTAL	1051	<50.0	NRQ	NRQ	<50.0	<50.0
UG/L	6010-G					
SILVER,TOTAL	1077	<5.0	NRQ	NRQ	<5.0	<5.0
UG/L	6010-G					
ACETONE	81552	<9.0	<9.0	<9.0	NRQ	NRQ
UG/L	8260-G					
BENZENE	34030	<1.0	<1.0	<1.0	NRQ	NRQ
UG/L	8260-G					
BROMODICHLOROMETHANE	32101	<2.2	<2.2	<2.2	NRQ	NRQ
UG/L	8260-G					
BROMOFORM	32104	<2.6	<2.6	<2.6	NRQ	NRQ
UG/L	8260-G					
BROMOMETHANE	34413	<3.5	<3.5	<3.5	NRQ	NRQ
UG/L	8260-G					
CARBON DISULFIDE	77041	<4.4	<4.4	<4.4	NRQ	NRQ
UG/L	8260-G					
CARBON TETRACHLORIDE	32102	<2.6	<2.6	<2.6	NRQ	NRQ
UG/L	8260-G					
CHLOROBENZENE	34301	<1.4	<1.4	<1.4	NRQ	NRQ
UG/L	8260-G					
CHLOROETHANE	34311	<8.2	<8.2	<8.2	NRQ	NRQ
UG/L	8260-G					

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PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSW PROJECT MANAGER E.H. MANSFIELD
ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA05-1-EB1	WA05-1-TB1	WBG3-1-TB2	WSV2-1-EB2	EWW1-1-00
PARAMETERS	STORET	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW
UNITS	METHOD	1	2	4	11	13
DATE		04/23/94	04/25/94	05/04/94	05/09/94	05/13/94
TIME		15:15	08:15	15:30	08:35	12:15
CHLOROFORM	32106	<2.5	<2.5	<2.5	NRQ	NRQ
UG/L	8260-G					
2-CHLOROETHYLVINYL-	34576	<3.1	<3.1	<3.1	NRQ	NRQ
ETHER UG/L	8260-G					
CHLOROMETHANE	34418	<4.4	<4.4	<4.4	NRQ	NRQ
UG/L	8260-G					
DIBROMOCHLOROMETHANE	32105	<2.3	<2.3	<2.3	NRQ	NRQ
UG/L	8260-G					
1,1-DICHLOROETHANE	34496	<2.5	<2.5	<2.5	NRQ	NRQ
UG/L	8260-G					
1,2-DICHLOROETHANE	34531	<2.5	<2.5	<2.5	NRQ	NRQ
UG/L	8260-G					
1,1-DICHLOROETHYLENE	34501	<3.2	<3.2	<3.2	NRQ	NRQ
UG/L	8260-G					
1,2-DICHLOROETHENE	96463	<2.4	<2.4	<2.4	NRQ	NRQ
(TOTAL) UG/L	8260-G					
1,2-DICHLOROPROPANE	34541	<2.0	<2.0	<2.0	NRQ	NRQ
UG/L	8260-G					
CIS-1,3-DICHLORO-	34704	<2.0	<2.0	<2.0	NRQ	NRQ
PROPENE UG/L	8260-G					
TRANS-1,3-DICHLORO-	34699	<1.6	<1.6	<1.6	NRQ	NRQ
PROPENE UG/L	8260-G					
ETHYLBENZENE	34371	<1.3	<1.3	<1.3	NRQ	NRQ
UG/L	8260-G					
2-HEXANONE	77103	<21	<21	<21	NRQ	NRQ
UG/L	8260-G					
METHYLENE CHLORIDE	34423	<6.4	<6.4	<6.4	NRQ	NRQ
UG/L	8260-G					
METHYL ETHYL KETONE	81595	<10.0	<10.0	<10.0	NRQ	NRQ
UG/L	8260-G					
METHYL ISOBUT'KETONE	81596	<12	<12	<12	NRQ	NRQ
UG/L	8260-G					
STYRENE	77128	<0.50	<0.50	<0.50	NRQ	NRQ
UG/L	8260-G					
1,1,2,2-TETRACHLORO-	34516	<1.5	<1.5	<1.5	NRQ	NRQ
ETHANE UG/L	8260-G					
TETRACHLOROETHENE	34475	<1.9	<1.9	<1.9	NRQ	NRQ
UG/L	8260-G					
TOLUENE	34010	<1.7	<1.7	<1.7	NRQ	NRQ
UG/L	8260-G					
1,1,1-TRICHL'ETHANE	34506	<2.5	<2.5	<2.5	NRQ	NRQ
UG/L	8260-G					

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PROJECT NUMBER 19440220 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSW PROJECT MANAGER E.H. MANSFIELD
ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA05-1-EB1	WA05-1-TB1	WBG3-1-TB2	WSV2-1-EB2	EWW1-1-00
PARAMETERS	STORET	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW
UNITS	METHOD	1	2	4	11	13
DATE		04/23/94	04/25/94	05/04/94	05/09/94	05/13/94
TIME		15:15	08:15	15:30	08:35	12:15
1,1,2-TRICHL'ETHANE	34511	<2.8	<2.8	<2.8	NRQ	NRQ
UG/L	8260-G					
TRICHLOROETHENE	39180	<3.0	<3.0	<3.0	NRQ	NRQ
UG/L	8260-G					
VINYL CHLORIDE	39175	<4.6	<4.6	<4.6	NRQ	NRQ
UG/L	8260-G					
VINYL ACETATE	77057	<10.0	<10.0	<10.0	NRQ	NRQ
UG/L	8260-G					
XYLENES,TOTAL	81551	<3.7	<3.7	<3.7	NRQ	NRQ
UG/L	8260-G					
ACENAPHTHENE	34205	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
ACENAPHTHYLENE	34200	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
ANTHRACENE	34220	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
BENZO(A)ANTHRACENE	34526	<1.5	NRQ	NRQ	<1.5	<1.5
UG/L	8270/3520-G					
BENZO(B)FLUORANTHENE	34230	<1.5	NRQ	NRQ	<1.5	<1.5
UG/L	8270/3520-G					
BENZO(K)FLUORANTHENE	34242	<1.5	NRQ	NRQ	<1.5	<1.5
UG/L	8270/3520-G					
BENZO(A)PYRENE	34247	<2.0	NRQ	NRQ	<2.0	<2.0
UG/L	8270/3520-G					
BENZO(GHI)PERYLENE	34521	<2.5	NRQ	NRQ	<2.5	<2.5
UG/L	8270/3520-G					
BUTYLBENZYLPHTHALATE	34292	<1.5	NRQ	NRQ	<1.5	<1.5
UG/L	8270/3520-G					
BIS(2-CHLOROETHYL)	34273	<1.5	NRQ	NRQ	<1.5	<1.5
ETHER UG/L	8270/3520-G					
BIS(2-CHLOROETHOXY)	34278	<1.0	NRQ	NRQ	<1.0	<1.0
METHANE UG/L	8270/3520-G					
BIS(2-ETHYLHEXYL)	39100	2.2	NRQ	NRQ	<2.0	<2.0
PHTHALATEUG/L	8270/3520-G					
BIS(2-CHL'ISOPROPYL)	34283	<1.0	NRQ	NRQ	<1.0	<1.0
ETHER UG/L	8270/3520-G					
4-BROMOPHENYLPHENYL	34636	<1.0	NRQ	NRQ	<1.0	<1.0
ETHER UG/L	8270/3520-G					
2-CHLORONAPHTHALENE	34581	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
2-CHLOROPHENOL	34586	<2.0	NRQ	NRQ	<2.0	<2.0
UG/L	8270/3520-G					

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PROJECT NUMBER 19440220 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSW PROJECT MANAGER E.H. MANSFIELD
ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA05-1-EB1	WA05-1-TB1	WBG3-1-TB2	WSV2-1-EB2	EWW1-1-00
PARAMETERS	STORET	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW
UNITS	METHOD	1	2	4	11	13
DATE		04/23/94	04/25/94	05/04/94	05/09/94	05/13/94
TIME		15:15	08:15	15:30	08:35	12:15
4-CHLORO-3-METHYL PHENOL UG/L	34452 8270/3520-G	<1.5	NRQ	NRQ	<1.5	<1.5
4-CHLOROPHENYLPHENYL ETHER UG/L	34641 8270/3520-G	<1.0	NRQ	NRQ	<1.0	<1.0
CHRYSENE UG/L	34320 8270/3520-G	<1.5	NRQ	NRQ	<1.5	<1.5
DIBEN'(A,H)ANTH'CENE UG/L	34556 8270/3520-G	<2.5	NRQ	NRQ	<2.5	<2.5
DI-N-BUTYLPHTHALATE UG/L	39110 8270/3520-G	<1.0	NRQ	NRQ	<1.0	<1.0
1,3,DICHLOROBENZENE UG/L	34566 8270/3520-G	<1.0	NRQ	NRQ	<1.0	<1.0
1,2-DICHLOROBENZENE UG/L	34536 8270/3520-G	<1.0	NRQ	NRQ	<1.0	<1.0
1,4-DICHLOROBENZENE UG/L	34571 8270/3520-G	<1.0	NRQ	NRQ	<1.0	<1.0
3,3'-DICHL'BENZIDINE UG/L	34631 8270/3520-G	<5.0	NRQ	NRQ	<5.0	<5.0
2,4-DICHLOROPHENOL UG/L	34601 8270/3520-G	<2.0	NRQ	NRQ	<2.0	<2.0
DIETHYLPHTHALATE UG/L	34336 8270/3520-G	<1.0	NRQ	NRQ	<1.0	<1.0
2,4-DIMETHYLPHENOL UG/L	34606 8270/3520-G	<2.0	NRQ	NRQ	<2.0	<2.0
DIMETHYLPTHALATE UG/L	34341 8270/3520-G	<2.0	NRQ	NRQ	<2.0	<2.0
2,4-DINITROPHENOL UG/L	34616 8270/3520-G	<20	NRQ	NRQ	<20	<20
2,4-DINITROTOLUENE UG/L	34611 8270/3520-G	<2.0	NRQ	NRQ	<2.0	<2.0
2,6-DINITROTOLUENE UG/L	34626 8270/3520-G	<2.0	NRQ	NRQ	<2.0	<2.0
DI-N-OCTYLPHTHALATE UG/L	34596 8270/3520-G	<2.4	NRQ	NRQ	<2.4	<2.4
FLUORANTHENE UG/L	34376 8270/3520-G	<1.0	NRQ	NRQ	<1.0	<1.0
FLUORENE UG/L	34381 8270/3520-G	<1.0	NRQ	NRQ	<1.0	<1.0
HEXACHLOROBENZENE UG/L	39700 8270/3520-G	<2.0	NRQ	NRQ	<2.0	<2.0
HEXACHLOROBUTADIENE UG/L	34391 8270/3520-G	<2.0	NRQ	NRQ	<2.0	<2.0

PROJECT NUMBER 19440226 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSW PROJECT MANAGER E.H. MANSFIELD
ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA05-1-EB1	WA05-1-TB1	WB03-1-TB2	WSV2-1-EB2	EWW1-1-00
PARAMETERS	STORET	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW
UNITS	METHOD	1	2	4	11	13
DATE		04/23/94	04/25/94	05/04/94	05/09/94	05/13/94
TIME		15:15	08:15	15:30	08:35	12:15
HEXACHLOROCYCLOPENTA	34386	<14	NRQ	NRQ	<14	<14
DIENE UG/L	8270/3520-G					
HEXACHLOROETHANE	34396	<1.5	NRQ	NRQ	<1.5	<1.5
UG/L	8270/3520-G					
INDENO(1,2,3-CD)	34403	<2.5	NRQ	NRQ	<2.5	<2.5
PYRENE UG/L	8270/3520-G					
ISOPHORONE	34408	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
2-METHYL-4,6-DINITRO	34657	<10.0	NRQ	NRQ	<10.0	<10.0
PHENOL UG/L	8270/3520-G					
2-METHYL PHENOL	99073	<2.0	NRQ	NRQ	<2.0	<2.0
UG/L	8270/3520-G					
4-METHYL PHENOL	99074	<2.0	NRQ	NRQ	<2.0	<2.0
UG/L	8270/3520-G					
NAPHTHALENE	34696	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
NITROBENZENE	34447	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
2-NITROPHENOL	34591	<2.0	NRQ	NRQ	<2.0	<2.0
UG/L	8270/3520-G					
4-NITROPHENOL	34646	<10.0	NRQ	NRQ	<10.0	<10.0
UG/L	8270/3520-G					
N-NITROSODI-N-PROPYL	34428	<1.0	NRQ	NRQ	<1.0	<1.0
AMINE UG/L	8270/3520-G					
N-NITROSODIPHE'AMINE	34433	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
PENTACHLOROPHENOL	39032	<3.5	NRQ	NRQ	<3.5	<3.5
UG/L	8270/3520-G					
PHENANTHRENE	34461	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
PHENOL	34694	<2.0	NRQ	NRQ	<2.0	<2.0
UG/L	8270/3520-G					
PYRENE	34469	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
1,2,4-TRICH'BENZENE	34551	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
2,4,6-TRICHL'PHENOL	34621	<2.5	NRQ	NRQ	<2.5	<2.5
UG/L	8270/3520-G					
BENZYL ALCOHOL	77147	<2.0	NRQ	NRQ	<2.0	<2.0
UG/L	8270/3520-G					
BENZOIC ACID	77247	<5.0	NRQ	NRQ	<5.0	<5.0
UG/L	8270/3520-G					

PROJECT NUMBER 19440220 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSW PROJECT MANAGER E.H. MANSFIELD
ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA05-1-EB1	WA05-1-TB1	WBG3-1-TB2	WSV2-1-EB2	EWW1-1-00
PARAMETERS	STORET	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW
UNITS	METHOD	1	2	4	11	13
DATE		04/23/94	04/25/94	05/04/94	05/09/94	05/13/94
TIME		15:15	08:15	15:30	08:35	12:15
4-CHLOROANILINE	99075	<2.0	NRQ	NRQ	<2.0	<2.0
UG/L	8270/3520-G					
2-NITROANILINE	99077	<2.0	NRQ	NRQ	<2.0	<2.0
UG/L	8270/3520-G					
3-NITROANILINE	99078	<2.0	NRQ	NRQ	<2.0	<2.0
UG/L	8270/3520-G					
4-NITROANILINE	99079	<2.0	NRQ	NRQ	<2.0	<2.0
UG/L	8270/3520-G					
2-METHLYNAPHTHALENE	77416	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
2,4,5-TRICHL'PHENOL	77687	<2.5	NRQ	NRQ	<2.5	<2.5
UG/L	8270/3520-G					
DIBENZOFURAN	81302	<1.0	NRQ	NRQ	<1.0	<1.0
UG/L	8270/3520-G					
ALDRIN	39330	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					
BHC,A	39337	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					
BHC,B	39338	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					
BHC,D	34259	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					
BHC,G(LINDANE)	39340	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					
CHLORDANE	39350	<0.025	NRQ	NRQ	<0.025	NA
UG/L	8080/3520-G					
DDD,PP'	39310	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					
DDE,PP'	39320	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					
DDT,PP'	39300	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					
DIELDRIN	39380	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					
ENDOSULFAN,A	34361	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					
ENDOSULFAN,B	34356	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					
ENDOSULFAN SULFATE	34351	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					
ENDRIN	39390	<0.005	NRQ	NRQ	<0.005	NA
UG/L	8080/3520-G					

000077

PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSW PROJECT MANAGER E.H. MANSFIELD
ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S			WA05-1-EB1	WA05-1-TB1	WB03-1-TB2	WSV2-1-EB2	EWW1-1-00
PARAMETERS		STORET	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW
	UNITS	METHOD	1	2	4	11	13
DATE			04/23/94	04/25/94	05/04/94	05/09/94	05/13/94
TIME			15:15	08:15	15:30	08:35	12:15
ENDRIN ALDEHYDE		34366	<0.005	NRQ	NRQ	<0.005	NA
	UG/L	8080/3520-G					
HEPTACHLOR		39410	<0.005	NRQ	NRQ	<0.005	NA
	UG/L	8080/3520-G					
METHOXYCHLOR		39480	<0.005	NRQ	NRQ	<0.005	NA
	UG/L	8080/3520-G					
HEPTACHLOR EPOXIDE		39420	<0.005	NRQ	NRQ	<0.005	NA
	UG/L	8080/3520-G					
TOXAPHENE		39400	<0.500	NRQ	NRQ	<0.500	NA
	UG/L	8080/3520-G					
PCB-1016		34671	<0.100	NRQ	NRQ	<0.100	NA
	UG/L	8080/3520-G					
PCB-1221		39488	<0.100	NRQ	NRQ	<0.100	NA
	UG/L	8080/3520-G					
PCB-1232		39492	<0.100	NRQ	NRQ	<0.100	NA
	UG/L	8080/3520-G					
PCB-1242		39496	<0.100	NRQ	NRQ	<0.100	NA
	UG/L	8080/3520-G					
PCB 1248		39500	<0.100	NRQ	NRQ	<0.100	NA
	UG/L	8080/3520-G					
PCB-1254		39504	<0.100	NRQ	NRQ	<0.100	NA
	UG/L	8080/3520-G					
PCB-1260		39508	<0.100	NRQ	NRQ	<0.100	NA
	UG/L	8080/3520-G					

000078

9513355.1173

Waters Data, Hits Only

Environmental Science & Engineering DATE 05/24/94 STATUS : PAGE 1
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSW PROJECT MANAGER E.H. MANSFIELD
ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA05-1-EB1	WA05-1-TB1	WBG3-1-TB2	WSV2-1-EB2	EWW1-1-00
PARAMETERS	STORET	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW
UNITS	METHOD	1	2	4	11	13
DATE		04/23/94	04/25/94	05/04/94	05/09/94	05/13/94
TIME		15:15	08:15	15:30	08:35	12:15
SITE #	96274	94H06L	94H06L	94H06L	94H06L	94H06L
	0					
CHAIN OF CUSTODY	96793	6	3	13	16	20
#	0					
HYDROCARBONS,PETRO	45501	--	NRQ	NRQ	--	4.21
(TRPH) MG/L	418.1-G					
ARSENIC,TOTAL	1002	--	NRQ	NRQ	--	3.9
UG/L	7060-G					
BARIUM,TOTAL	1007	--	NRQ	NRQ	--	87.2
UG/L	6010-G					
CHROMIUM,TOTAL	1034	--	NRQ	NRQ	--	19.5
UG/L	6010-G					
BIS(2-ETHYLHEXYL)	39100	2.2	NRQ	NRQ	--	--
PHTHALATEUG/L	8270/3520-G					
ALDRIN	39330	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
BHC,A	39337	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
BHC,B	39338	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
BHC,D	34259	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
BHC,G(LINDANE)	39340	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
CHLORDANE	39350	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
DDD,PP'	39310	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
DDE,PP'	39320	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
DDT,PP'	39300	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
DIELDRIN	39380	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
ENDOSULFAN,A	34361	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
ENDOSULFAN,B	34356	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
ENDOSULFAN SULFATE	34351	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
ENDRIN	39390	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					

000080

9415956.1174

Environmental Science & Engineering DATE 05/24/94 STATUS : PAGE 2
PROJECT NUMBER 1944022G 0201 PROJECT NAME CDM - HANFORD N. SLOPE
FIELD GROUP CDMHNSW PROJECT MANAGER E.H. MANSFIELD
ALL LAB COORDINATOR EDWARD MANSFIELD

SAMPLE ID'S		WA05-1-EB1	WA05-1-TB1	WBG3-1-TB2	WSV2-1-EB2	EWW1-1-00
PARAMETERS	STORET	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW	CDMHNSW
UNITS	METHOD	1	2	4	11	13
DATE		04/23/94	04/25/94	05/04/94	05/09/94	05/13/94
TIME		15:15	08:15	15:30	08:35	12:15
ENDRIN ALDEHYDE	34366	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
HEPTACHLOR	39410	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
METHOXYCHLOR	39480	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
HEPTACHLOR EPOXIDE	39420	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
TOXAPHENE	39400	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
PCB-1016	34671	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
PCB-1221	39488	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
PCB-1232	39492	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
PCB-1242	39496	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
PCB 1248	39500	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
PCB-1254	39504	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					
PCB-1260	39508	--	NRQ	NRQ	--	NA
UG/L	8080/3520-G					

9513355.1176

Organochlorine Pesticides
& PCBs
Sample EA11-1-07 (ESE# CDMHNSS*21)

9513355.1177

SDG NARRATIVE

SDG No.: 48777
Pesticides/PCBs

1. The USEPA contract laboratory program statement of work for organics analysis dated 3/90 revision OLM01.8 was followed.

2. The following codes are used on the data report:
   NC = Not Confirmed by the other column.
   BDL = Below Detection Limit.

9513355.1179

PESTICIDES & PCBs

9513355.1180

QC SUMMARY

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK1	74	77	97	99			0
02	A1101007	99	100	101	101			0
03	A1101007MS	73	75	78	77			0
04	A1101007MS	85	89	91	91			0
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60 -150)
DCB = Decachlorobiphenyl	(60 -150)

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

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No.: SDG No.: 48777

Matrix Spike - EPA Sample No.: A1101007

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	17	0.0	13	76	46-127
Heptachlor	17	0.0	12	71	35-130
Aldrin	17	0.0	11	65	34-132
Dieldrin	35	0.0	25	71	31-134
Endrin	35	0.0	26	74	42-139
4,4'-DDT	35	0.0	27	77	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
gamma-BHC (Lindane)	17	16	94	21	50	46-127
Heptachlor	17	14	82	14	31	35-130
Aldrin	17	14	82	23	43	34-132
Dieldrin	35	31	89	22	38	31-134
Endrin	35	31	89	18	45	42-139
4,4'-DDT	35	36	103	29	50	23-134

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:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Lab Sample ID: MB*QC*1 Lab File ID:

Matrix:(soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) Y Date Extracted: 05/03/94

Date Analyzed (1): 05/04/94 Date Analyzed (2): 05/04/94

Time Analyzed (1): 1739 Time Analyzed (2): 1821

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column (1): DB608 ID:.53 (mm) GC Column (2): DB1701 ID:.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	A1101007	CDMHNSS*21	05/04/94	05/04/94
02	A1101007MS	SPM1*CDMHNSS*	05/04/94	05/04/94
03	A1101007MSD	SPM2*CDMHNSS*	05/04/94	05/04/94
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

9513355.1184

SAMPLE DATA

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A1101007

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Matrix: (soil/water) SOIL Lab Sample ID: CDMHNSS*21

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

% Moisture: 4 decanted: (Y/N) Y Date Received: 05/03/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/03/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.5	U
742-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.7	U
5566-34-7	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	69.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	35.	U
11096-82-5	Aroclor-1260	35.	U

Software Version: 4.0<1C29>
Sample Name : CDMHNSS*21 5-3-94 Time : 5/11/94 01:43 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 06:21 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A037.RAW
Result File : C:\TC4\HP58909\557A037.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A037.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A037.RST
Calib Method : C:\TC4\HP58909\557A from C:\TC4\HP58909\557A037.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5963.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 27

DATA REPORT

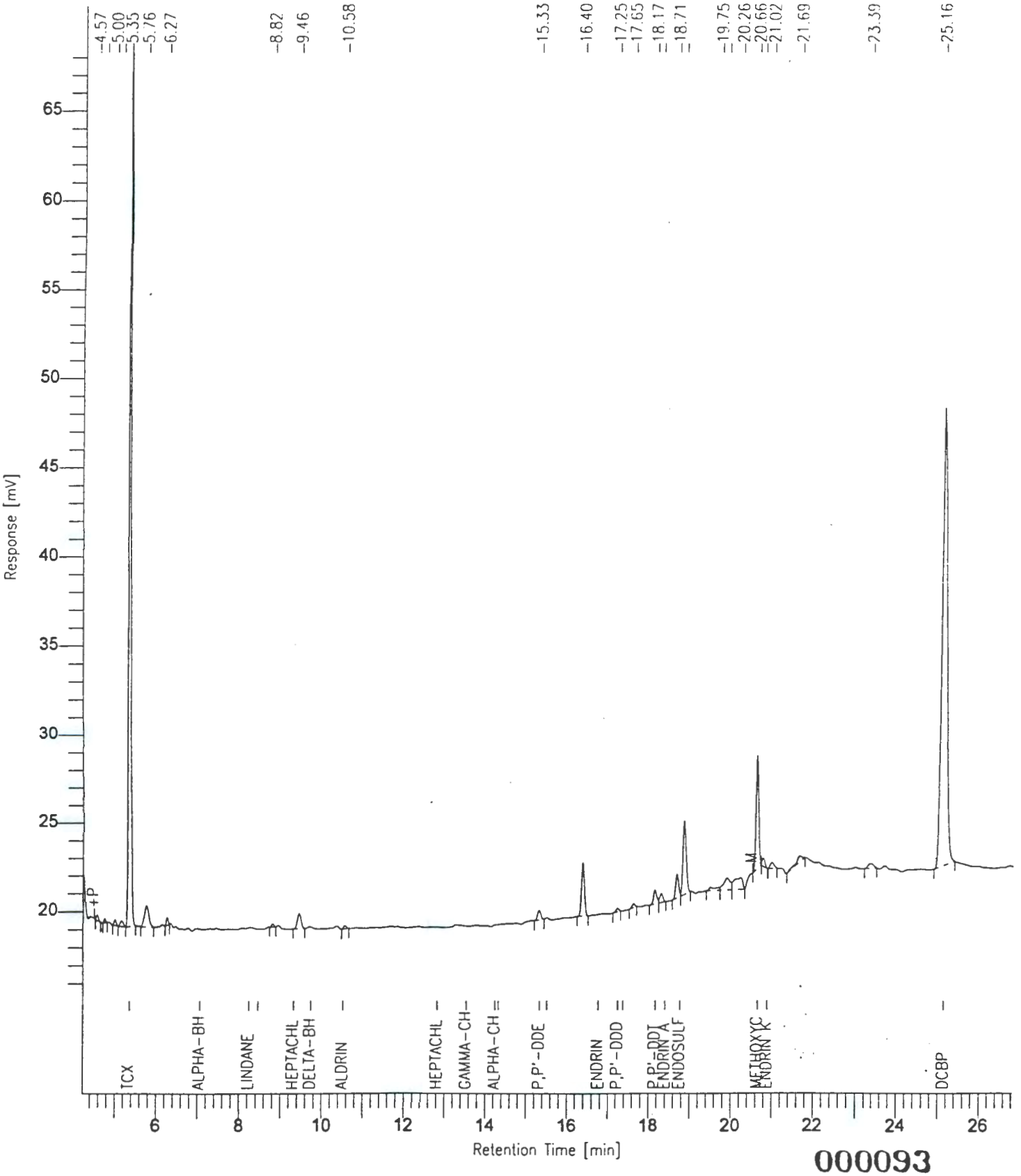
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
5	5.353	TCX	185210	B	53858	-0.0028
6	5.762		8765	B	1172	-------
12	16.404		15094	B	3050	-------
17	18.709	ENDOSULFAN SULFATE	6995	B	1359	-0.3522
18	18.890		23589	V	4197	-------
20	19.926		7576	V	681	-------
21	20.256		9499	V	673	-------
22	20.657	METHOXYCHLOR	29223	*B	6484	-0.0333
27	25.158	DCBP	224616	B	25729	-0.0012
			510566		97203	

9513355.1187

Chromatogram

Sample Name : CDMHNSS*21 5-3-94
FileName : C:\TC4\HP58909\557A037.RAW
Method :
Start Time : 4.22 min End Time : 26.84 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 5/11/94 01:43 PM
Time of Injection: 5/4/94 06:21 PM
Low Point : 15.07 mV High Point : 68.28 mV
Plot Scale: 53.2 mV



000093

9513355.1188

Software Version: 4.0<1C29>
Sample Name : CDMHNSS*21 5-3-94 Time : 5/11/94 02:22 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 07:04 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B038.RAW
Result File : C:\TC4\HP58909\557B038.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B038.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B038.RST
Calib Method : C:\TC4\HP58909\557B from C:\TC4\HP58909\557B038.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 10009.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 31

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.253		197782	B	58465	-------
2	3.617		10106	B	2609	-------
3	3.717	TCX	383722	V	131488	-0.0153
5	4.172		14102	V	3436	-------
9	4.861		12011	B	2412	-------
14	8.358		39935	B	7585	-------
15	8.822		13504	B	1574	-------
21	15.275		14110	B	1832	-------
23	16.861	METHOXYCHLOR BDL	65384	B	10603	-0.0264
24	17.017		65470	V	9411	-------
25	17.930		76172	B	12057	-------
26	18.778		14790	B	1025	-------

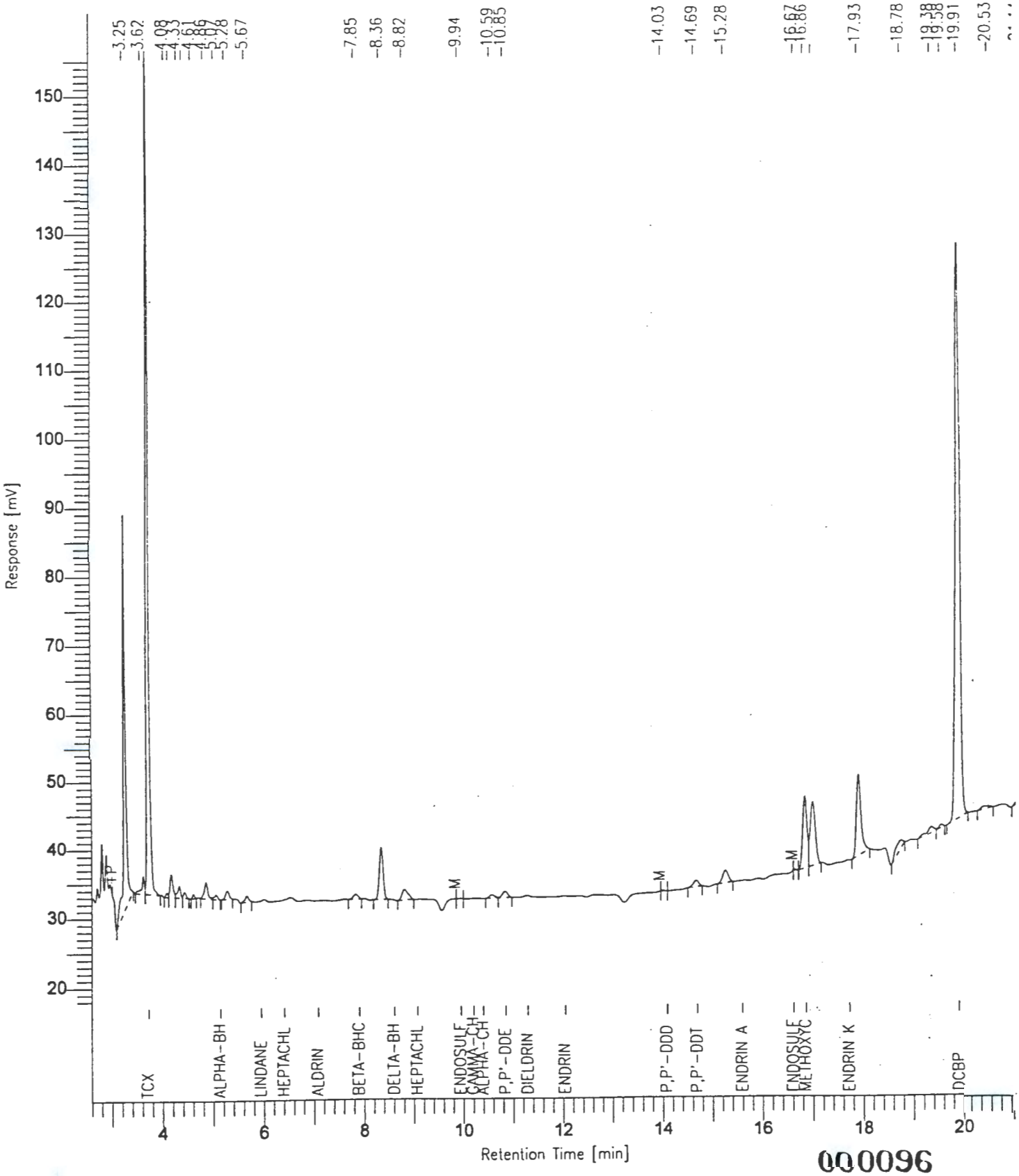
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
29	19.913	DCBP	523527	B	84237	-0.0070
31	21.137		10033	B	1349	-------
			1440648		328085	

9513555.1190

Chromatogram

Sample Name : CDMHNSS*21 5-3-94
FileName : C:\TC4\HP58909\557B038.RAW
Method :
Start Time : 2.59 min End Time : 21.06 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/11/94 02:22 PM
Time of Injection: 5/4/94 07:04 PM
Low Point : 17.10 mV High Point : 155.28 mV
Plot Scale: 138.2 mV



9513355.1191

STANDARDS DATA

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 05/04/94 05/04/94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	7.06	7.06	7.06	7.06	7.01	7.11
beta-BHC	8.46	8.46	8.46	8.46	8.41	8.51
delta-BHC	9.74	9.74	9.74	9.74	9.69	9.79
gamma-BHC (Lindane)	8.24	8.24	8.24	8.24	8.19	8.29
Heptachlor	9.32	9.33	9.33	9.33	9.28	9.38
Aldrin	10.52	10.53	10.53	10.52	10.47	10.57
Heptachlor epoxide	12.83	12.83	12.83	12.83	12.76	12.90
Endosulfan I	14.33	14.33	14.33	14.33	14.26	14.40
Dieldrin	15.52	15.52	15.52	15.52	15.45	15.59
4,4'-DDE	15.33	15.34	15.34	15.34	15.27	15.41
Endrin	16.78	16.78	16.78	16.78	16.71	16.85
Endosulfan II	17.38	17.39	17.39	17.39	17.32	17.46
4,4'-DDD	17.26	17.26	17.26	17.26	17.19	17.33
Endosulfan sulfate	18.77	18.78	18.78	18.78	18.71	18.85
4,4'-DDT	18.17	18.17	18.18	18.18	18.11	18.25
Methoxychlor	20.66	20.66	20.66	20.66	20.59	20.73
Endrin ketone	20.90	20.90	20.90	20.90	20.83	20.97
Endrin aldehyde	18.41	18.41	18.41	18.41	18.34	18.48
alpha-Chlordane	14.24	14.25	14.25	14.25	14.18	14.32
gamma-Chlordane	13.54	13.55	13.54	13.54	13.47	13.61
Tetrachloro-m-xylene	5.35	5.35	5.35	5.35	5.30	5.40
Decachlorobiphenyl	25.16	25.16	25.16	25.16	25.06	25.26

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB1701 ID: .53 (mm) Date(s) Analyzed: 05/04/94 05/04/94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	5.14	5.14	5.14	5.14	5.09	5.19
beta-BHC	7.91	7.91	7.91	7.91	7.86	7.96
delta-BHC	8.61	8.61	8.61	8.61	8.56	8.66
gamma-BHC (Lindane)	5.95	5.95	5.95	5.95	5.90	6.00
Heptachlor	6.41	6.41	6.42	6.41	6.36	6.46
Aldrin	7.09	7.09	7.09	7.09	7.04	7.14
Heptachlor epoxide	9.07	9.08	9.08	9.08	9.01	9.15
Endosulfan I	9.95	9.95	9.95	9.95	9.88	10.02
Dieldrin	11.30	11.30	11.30	11.30	11.23	11.37
4,4'-DDE	10.85	10.86	10.86	10.85	10.78	10.92
Endrin	12.05	12.05	12.05	12.05	11.98	12.12
Endosulfan II	14.10	14.11	14.11	14.10	14.03	14.17
4,4'-DDD	14.09	14.09	14.09	14.09	14.02	14.16
Endosulfan sulfate	16.62	16.62	16.62	16.62	16.55	16.69
4,4'-DDT	14.70	14.70	14.70	14.70	14.63	14.77
Methoxychlor	16.86	16.87	16.87	16.86	16.79	16.93
Endrin ketone	17.73	17.73	17.73	17.73	17.66	17.80
Endrin aldehyde	15.60	15.60	15.60	15.60	15.53	15.67
alpha-Chlordane	10.40	10.41	10.41	10.40	10.33	10.47
gamma-Chlordane	10.21	10.21	10.21	10.21	10.14	10.28
Tetrachloro-m-xylene	3.72	3.72	3.72	3.72	3.67	3.77
Decachlorobiphenyl	19.91	19.91	19.91	19.91	19.81	20.01

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 05/04/94 05/04/94

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	3719600	3934500	4930275	4194792	15.4
beta-BHC	2824000	2740100	2922575	2828892	3.2
delta-BHC	3344800	3314900	3992150	3550617	10.8
gamma-BHC (Lindane)	3861000	4041300	4828475	4243592	12.1
Heptachlor	6132200	5891250	6063875	6029108	2.1
Aldrin	4224000	4097050	4926875	4415975	10.1
Heptachlor epoxide	4874200	4532400	4837650	4748083	4.0
Endosulfan I	4252000	4080100	4217638	4183246	2.2
Dieldrin	3892800	4017750	5091613	4334054	15.2
4,4'-DDE	3585800	3680300	4956638	4074246	18.8
Endrin	3416800	3587000	4553650	3852483	15.9
Endosulfan II	3750400	3613875	4096569	3820281	6.5
4,4'-DDD	2781400	2977000	3692625	3150342	15.2
Endosulfan sulfate	4039000	4022375	4567569	4209648	7.4
4,4'-DDT	3503600	3838600	4795175	4045792	16.6
Methoxychlor	2800800	3123015	3169773	3031196	6.6
Endrin ketone	3694100	3834975	4508856	4012644	10.9
Endrin aldehyde	3154300	3065925	3141075	3120433	1.5
alpha-Chlordane	5571600	5336700	5763325	5557208	3.8
gamma-Chlordane	5858200	5428300	5601275	5629258	3.8
Tetrachloro-m-xylene	4471600	4695200	5211950	4792917	7.9
Decachlorobiphenyl	5771800	5583075	5550475	5635117	2.1

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6E
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB1701 ID: .53 (mm) Date(s) Analyzed: 05/04/94 05/04/94

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	8314400	9755250	12196213	10088621	19.5
beta-BHC	6344000	6196400	6358813	6299738	1.4
delta-BHC	7920800	8332900	10643100	8965600	16.4
gamma-BHC (Lindane)	8856800	9986400	11891138	10244779	15.0
Heptachlor	13826800	13226600	13137563	13396988	2.8
Aldrin	9578800	9478700	10838925	9965475	7.6
Heptachlor epoxide	11852200	11021050	11197838	11357029	3.9
Endosulfan I	10567600	10254650	10316875	10379708	1.6
Dieldrin	9387100	9633800	10727738	9916213	7.2
4,4'-DDE	7979400	8075850	9745194	8600148	11.5
Endrin	9099800	9341350	10312819	9584656	6.7
Endosulfan II	10238500	9744275	10113856	10032210	2.6
4,4'-DDD	6096700	6517200	7803144	6805681	13.1
Endosulfan sulfate	8969200	8608300	9048713	8875404	2.6
4,4'-DDT	7514900	8113900	9279238	8302679	10.8
Methoxychlor	5737420	5642530	4973610	5451187	7.6
Endrin ketone	8615000	9167200	10074206	9285469	7.9
Endrin aldehyde	5657300	7123825	6851431	6544185	11.9
alpha-Chlordane	12510400	11729150	11796975	12012175	3.6
gamma-Chlordane	13091200	11957300	11773888	12274129	5.8
Tetrachloro-m-xylene	10486400	9579000	9104875	9723425	7.2
Decachlorobiphenyl	13881200	12975925	11397750	12751625	9.9

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Instrument ID: HP58909 Date(s) Analyzed: 05/04/94 05/03/94

GC Column: DB608 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	17.47	17.40	17.54	177370
		*2	19.84	19.77	19.91	173586
		*3	20.00	19.93	20.07	198178
		4				
		5				
Aroclor 1016	0.10	*1	6.95	6.88	7.02	136580
		*2	8.18	8.11	8.25	342340
		*3	9.39	9.32	9.46	505150
		4				
		5				
Aroclor 1221	0.20	*1	4.80	4.73	4.87	86465
		*2	6.37	6.30	6.44	59630
		*3	6.95	6.88	7.02	161035
		4				
		5				
Aroclor 1232	0.10	*1	6.95	6.88	7.02	155530
		*2	8.18	8.11	8.25	164810
		*3	9.39	9.32	9.46	218850
		4				
		5				
Aroclor 1242	0.10	*1	6.95	6.88	7.02	126720
		*2	8.18	8.11	8.25	273600
		*3	9.39	9.32	9.46	401380
		4				
		5				
Aroclor 1248	0.10	*1	9.37	9.30	9.44	255200
		*2	11.87	11.80	11.94	262660
		*3	14.43	14.36	14.50	185690
		4				
		5				
Aroclor 1254	0.10	*1	13.87	13.80	13.94	393670
		*2	15.88	15.81	15.95	446580
		*3	18.14	18.07	18.21	327660
		4				
		5				
Aroclor 1260	0.10	*1	16.78	16.71	16.85	419300
		*2	18.24	18.17	18.31	271340
		*3	19.65	19.58	19.72	547310
		4				
		5				

* Denotes required peaks -

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Instrument ID: HP58909 Date(s) Analyzed: 05/04/94 05/03/94

GC Column: DB1701 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	13.92	13.85	13.99	327684
		*2	14.91	14.84	14.98	504304
		*3	16.37	16.30	16.44	497884
		4				
		5				
Aroclor 1016	0.10	*1	5.27	5.20	5.34	577760
		*2	6.23	6.16	6.30	1087840
		*3	7.07	7.00	7.14	807740
		4				
		5				
Aroclor 1221	0.20	*1	3.26	3.19	3.33	198450
		*2	4.25	4.18	4.32	100090
		*3	4.59	4.52	4.66	310030
		4				
		5				
Aroclor 1232	0.10	*1	4.59	4.52	4.66	300660
		*2	5.27	5.20	5.34	252470
		*3	6.23	6.16	6.30	463330
		4				
		5				
Aroclor 1242	0.10	*1	5.27	5.20	5.34	461440
		*2	6.23	6.16	6.30	847940
		*3	7.07	7.00	7.14	589440
		4				
		5				
Aroclor 1248	0.10	*1	6.23	6.16	6.30	534110
		*2	7.06	6.99	7.13	986620
		*3	8.92	8.85	8.99	1152560
		4				
		5				
Aroclor 1254	0.10	*1	8.89	8.82	8.96	943340
		*2	11.08	11.01	11.15	966320
		*3	14.00	13.93	14.07	939790
		4				
		5				
Aroclor 1260	0.10	*1	12.59	12.52	12.66	830630
		*2	15.28	15.21	15.35	541350
		*3	16.25	16.18	16.32	1298400
		4				
		5				

* Denotes required peaks

6G
PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): HP58909

EPA Sample No. (Standard 1): RESC11 Lab Sample ID (1): CK*RESC*1

Date Analyzed (1): 05/03/94 Time Analyzed (1): 1947

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.35	100
02	gamma-Chlordane	13.54	100
03	Endosulfan I	14.33	100
04	4,4'-DDE	15.34	82.8
05	Dieldrin	15.52	100
06	Endosulfan sulfate	18.77	100
07	Methoxychlor	20.66	99.2
08	Endrin ketone	20.90	100
09	Decachlorobiphenyl	25.16	

GC column (2): DB1701 ID:.53 (mm) Instrument Id (2): HP58909

EPA Sample No. (Standard 2): RESC21 Lab sample ID (2): CK*RESC*1

Date Analyzed (2): 05/03/94 Time Analyzed (2): 2029

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.72	100
02	Endosulfan I	9.95	94.3
03	gamma-Chlordane	10.21	100
04	4,4'-DDE	10.85	100
05	Dieldrin	11.30	100
06	Endosulfan sulfate	16.62	93.0
07	Methoxychlor	16.86	100
08	Endrin ketone	17.72	100
09	Decachlorobiphenyl	19.91	

Resolution of two adjacent peaks must be calculated as a percentage of the height of the smaller peak, and must be greater than or equal to 60.0%.

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 05/03/94 05/03/94

EPA Sample No. (PIBLK): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM): PEM11 Date Analyzed: 05/03/94

Lab Sample ID (PEM): CK*PEM*1 Time Analyzed: 2029

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.06	7.01	7.11	0.0096	0.010	4.0
beta-BHC	8.46	8.41	8.51	0.011	0.010	10.0
gamma-BHC (Lindane)	8.24	8.19	8.29	0.0096	0.010	4.0
Endrin	16.78	16.71	16.85	0.048	0.050	4.0
4,4'-DDT	18.18	18.11	18.25	0.11	0.10	10.0
Methoxychlor	20.66	20.59	20.73	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 1.0 Endrin % breakdown (1): 5.9

Combined % breakdown (1): 6.9

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 05/03/94 05/03/94

EPA Sample No. (PIBLK): PIBLK11 Date Analyzed: 05/04/94

Lab Sample ID (PIBLK): MB*PIBLK*1 Time Analyzed: 0622

EPA Sample No. (PEM): PEM12 Date Analyzed: 05/04/94

Lab Sample ID (PEM): CK*PEM*2 Time Analyzed: 0704

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.06	7.01	7.11	0.0094	0.010	6.0
beta-BHC	8.46	8.41	8.51	0.010	0.010	0.0
gamma-BHC (Lindane)	8.24	8.19	8.29	0.0094	0.010	6.0
Endrin	16.78	16.71	16.85	0.047	0.050	6.0
4,4'-DDT	18.18	18.11	18.25	0.11	0.10	10.0
Methoxychlor	20.66	20.59	20.73	0.23	0.25	8.0

4,4'-DDT % breakdown (1): 1.7 Endrin % breakdown (1): 8.1

Combined % breakdown (1): 9.8

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 05/03/94 05/03/94

EPA Sample No. (PIBLK): PIBLK13 Date Analyzed: 05/04/94

Lab Sample ID (PIBLK): MB*PIBLK*3 Time Analyzed: 2236

EPA Sample No. (PEM): PEM13 Date Analyzed: 05/04/94

Lab Sample ID (PEM): CK*PEM*3 Time Analyzed: 2318

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.05	7.01	7.11	0.0093	0.010	7.0
beta-BHC	8.46	8.41	8.51	0.010	0.010	0.0
gamma-BHC (Lindane)	8.24	8.19	8.29	0.0093	0.010	7.0
Endrin	16.78	16.71	16.85	0.046	0.050	8.0
4,4'-DDT	18.17	18.11	18.25	0.11	0.10	10.0
Methoxychlor	20.66	20.59	20.73	0.23	0.25	8.0

4,4'-DDT % breakdown (1): 1.6 Endrin % breakdown (1): 5.5

Combined % breakdown (1): 7.1

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 05/04/94 05/04/94

EPA Sample No. (PIBLK): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM): PEM21 Date Analyzed: 05/03/94

Lab Sample ID (PEM): CK*PEM*1 Time Analyzed: 2112

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.14	5.09	5.19	0.0083	0.010	17.0
beta-BHC	7.91	7.86	7.96	0.0097	0.010	3.0
gamma-BHC (Lindane)	5.95	5.90	6.00	0.0087	0.010	13.0
Endrin	12.05	11.98	12.12	0.045	0.050	10.0
4,4'-DDT	14.70	14.63	14.77	0.10	0.10	0.0
Methoxychlor	16.87	16.79	16.93	0.23	0.25	8.0

4,4'-DDT % breakdown (1): 0.0 Endrin % breakdown (1): 4.1

Combined % breakdown (1): 4.1

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 05/04/94 05/04/94

EPA Sample No. (PIBLK): PIBLK11 Date Analyzed: 05/04/94

Lab Sample ID (PIBLK): MB*PIBLK*1 Time Analyzed: 0704

EPA Sample No. (PEM): PEM22 Date Analyzed: 05/04/94

Lab Sample ID (PEM): CK*PEM*2 Time Analyzed: 0747

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.14	5.09	5.19	0.0089	0.010	11.0
beta-BHC	7.91	7.86	7.96	0.010	0.010	0.0
gamma-BHC (Lindane)	5.95	5.90	6.00	0.0090	0.010	10.0
Endrin	12.05	11.98	12.12	0.046	0.050	8.0
4,4'-DDT	14.70	14.63	14.77	0.10	0.10	0.0
Methoxychlor	16.87	16.79	16.93	0.23	0.25	8.0

4,4'-DDT % breakdown (1): 0.3 Endrin % breakdown (1): 4.1

Combined % breakdown (1): 4.4

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 05/04/94 05/04/94

EPA Sample No. (PIBLK): PIBLK13 Date Analyzed: 05/04/94

Lab Sample ID (PIBLK): MB*PIBLK*3 Time Analyzed: 2318

EPA Sample No. (PEM): PEM23 Date Analyzed: 05/05/94

Lab Sample ID (PEM): CK*PEM*3 Time Analyzed: 0000

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.14	5.09	5.19	0.0090	0.010	10.0
beta-BHC	7.90	7.86	7.96	0.010	0.010	0.0
gamma-BHC (Lindane)	5.95	5.90	6.00	0.0090	0.010	10.0
Endrin	12.05	11.98	12.12	0.046	0.050	8.0
4,4'-DDT	14.70	14.63	14.77	0.10	0.10	0.0
Methoxychlor	16.86	16.79	16.93	0.23	0.25	8.0

4,4'-DDT % breakdown (1): 0.6 Endrin % breakdown (1): 4.3

Combined % breakdown (1): 4.9

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 48777

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s) 05/03/94 05/03/94

EPA Sample No.(PIBLK): PIBLK12 Date Analyzed: 05/04/94

Lab Sample ID (PIBLK): MB*PIBLK*2 Time Analyzed: 1243

EPA Sample No.(INDA): INDAM12 Date Analyzed: 05/04/94

Lab Sample ID (INDA): CCS*INDAM*2 Time Analyzed: 1325

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.06	7.01	7.11	0.020	0.020	0.0
gamma-BHC (Lindane)	8.24	8.19	8.29	0.020	0.020	0.0
Heptachlor	9.32	9.28	9.38	0.020	0.020	0.0
Endosulfan I	14.33	14.26	14.40	0.020	0.020	0.0
Dieldrin	15.52	15.45	15.59	0.040	0.040	0.0
Endrin	16.78	16.71	16.85	0.040	0.040	0.0
4,4'-DDD	17.26	17.19	17.33	0.040	0.040	0.0
4,4'-DDT	18.17	18.11	18.25	0.040	0.040	0.0
Methoxychlor	20.66	20.59	20.73	0.20	0.20	0.0
Tetrachloro-m-xylene	5.35	5.30	5.40	0.020	0.020	0.0
Decachlorobiphenyl	25.16	25.06	25.26	0.040	0.040	0.0

EPA Sample No.(INDB): INDBM12 Date Analyzed : 05/04/94

Lab Sample ID (INDB): CCS*INDBM*2 Time Analyzed : 1408

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	8.46	8.41	8.51	0.021	0.020	5.0
delta-BHC	9.74	9.69	9.79	0.021	0.020	5.0
Aldrin	10.52	10.47	10.57	0.021	0.020	5.0
Heptachlor epoxide	12.83	12.76	12.90	0.021	0.020	5.0
4,4'-DDE	15.34	15.27	15.41	0.041	0.040	2.5
Endosulfan II	17.38	17.32	17.46	0.041	0.040	2.5
Endosulfan sulfate	18.77	18.71	18.85	0.041	0.040	2.5
Endrin ketone	20.90	20.83	20.97	0.042	0.040	5.0
Endrin aldehyde	18.41	18.34	18.48	0.041	0.040	2.5
alpha-Chlordane	14.25	14.18	14.32	0.021	0.020	5.0
gamma-Chlordane	13.54	13.47	13.61	0.021	0.020	5.0
Tetrachloro-m-xylene	5.35	5.30	5.40	0.020	0.020	0.0
Decachlorobiphenyl	25.16	25.06	25.26	0.040	0.040	0.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 48777

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s) 05/04/94 05/04/94

EPA Sample No.(PIBLK): PIBLK12 Date Analyzed: 05/04/94

Lab Sample ID (PIBLK): MB*PIBLK*2 Time Analyzed: 1325

EPA Sample No.(INDA): INDAM22 Date Analyzed: 05/04/94

Lab Sample ID (INDA): CCS*INDAM*2 Time Analyzed: 1408

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.14	5.09	5.19	0.020	0.020	0.0
gamma-BHC (Lindane)	5.95	5.90	6.00	0.020	0.020	0.0
Heptachlor	6.41	6.36	6.46	0.020	0.020	0.0
Endosulfan I	9.95	9.88	10.02	0.020	0.020	0.0
Dieldrin	11.30	11.23	11.37	0.040	0.040	0.0
Endrin	12.05	11.98	12.12	0.040	0.040	0.0
4,4'-DDD	14.09	14.02	14.16	0.040	0.040	0.0
4,4'-DDT	14.70	14.63	14.77	0.040	0.040	0.0
Methoxychlor	16.86	16.79	16.93	0.20	0.20	0.0
Tetrachloro-m-xylene	3.72	3.67	3.77	0.020	0.020	0.0
Decachlorobiphenyl	19.91	19.81	20.01	0.040	0.040	0.0

EPA Sample No.(INDB): INDBM22 Date Analyzed : 05/04/94

Lab Sample ID (INDB): CCS*INDBM*2 Time Analyzed : 1450

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	7.90	7.86	7.96	0.020	0.020	0.0
delta-BHC	8.61	8.56	8.66	0.020	0.020	0.0
Aldrin	7.09	7.04	7.14	0.020	0.020	0.0
Heptachlor epoxide	9.07	9.01	9.15	0.020	0.020	0.0
4,4'-DDE	10.85	10.78	10.92	0.041	0.040	2.5
Endosulfan II	14.10	14.03	14.17	0.041	0.040	2.5
Endosulfan sulfate	16.62	16.55	16.69	0.041	0.040	2.5
Endrin ketone	17.73	17.66	17.80	0.041	0.040	2.5
Endrin aldehyde	15.60	15.53	15.67	0.035	0.040	12.5
alpha-Chlordane	10.40	10.33	10.47	0.020	0.020	0.0
gamma-Chlordane	10.20	10.14	10.28	0.020	0.020	0.0
Tetrachloro-m-xylene	3.72	3.67	3.77	0.020	0.020	0.0
Decachlorobiphenyl	19.91	19.82	20.02	0.040	0.040	0.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 05/03/94 05/04/94

Instrument ID: HP58909

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.35 DCB: 25.16

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC11	CK*RESC*1	05/03/94	1947	5.35	25.16
02	PEM11	CK*PEM*1	05/03/94	2029	5.35	25.16
03	AR166011	ICV*AR1660*1	05/03/94	2112	5.35	25.16
04	AR122111	ICV*AR1221*1	05/03/94	2154	5.35	25.16
05	AR123211	ICV*AR1232*1	05/03/94	2236	5.35	25.16
06	AR124211	ICV*AR1242*1	05/03/94	2319	5.35	25.16
07	AR124811	ICV*AR1248*1	05/04/94	0001	5.35	25.16
08	AR125411	ICV*AR1254*1	05/04/94	0043	5.35	25.16
09	TOXAPH11	ICV*TOXAPH*1	05/04/94	0126	5.35	25.16
10	INDAL11	ICV*INDAL*1	05/04/94	0208	5.35	25.16
11	INDBL11	ICV*INDBL*1	05/04/94	0250	5.35	25.16
12	INDAM11	ICV*INDAM*1	05/04/94	0333	5.35	25.16
13	INDBM11	ICV*INDBM*1	05/04/94	0415	5.35	25.16
14	INDAH11	ICV*INDAH*1	05/04/94	0457	5.35	25.16
15	INDBH11	ICV*INDBH*1	05/04/94	0540	5.35	25.16
16	PIBLK11	MB*PIBLK*1	05/04/94	0622	5.35	25.16
17	PEM12	CK*PEM*2	05/04/94	0704	5.35	25.16
18	PIBLK12	MB*PIBLK*2	05/04/94	1243	5.35	25.15
19	INDAM12	CCS*INDAM*2	05/04/94	1325	5.35	25.16
20	INDBM12	CCS*INDBM*2	05/04/94	1408	5.35	25.16
21	PBLK1	MB*QC*1	05/04/94	1739	5.35	25.16
22	A1101007	CDMHNSS*21	05/04/94	1821	5.35	25.16
23	A1101007MS	SPM1*CDMHNSS	05/04/94	1946	5.35	25.16
24	A1101007MSD	SPM2*CDMHNSS	05/04/94	2111	5.35	25.15
25	PIBLK13	MB*PIBLK*3	05/04/94	2236	5.35	25.16
26	PEM13	CK*PEM*3	05/04/94	2318	5.35	25.15
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 05/03/94 05/04/94

Instrument ID: HP58909

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.72 DCB: 19.91

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC21	CK*RESC*1	05/03/94	2029	3.72	19.91
02	PEM21	CK*PEM*1	05/03/94	2112	3.72	19.91
03	AR166021	ICV*AR1660*1	05/03/94	2154	3.72	19.91
04	AR122121	ICV*AR1221*1	05/03/94	2236	3.72	19.92
05	AR123221	ICV*AR1232*1	05/03/94	2319	3.72	19.91
06	AR124221	ICV*AR1242*1	05/04/94	0001	3.72	19.91
07	AR124821	ICV*AR1248*1	05/04/94	0043	3.72	19.91
08	AR125421	ICV*AR1254*1	05/04/94	0126	3.72	19.91
09	TOXAPH21	ICV*TOXAPH*1	05/04/94	0208	3.72	19.91
10	INDAL21	ICV*INDAL*1	05/04/94	0250	3.72	19.91
11	INDBL21	ICV*INDBL*1	05/04/94	0333	3.72	19.91
12	INDAM21	ICV*INDAM*1	05/04/94	0415	3.72	19.91
13	INDBM21	ICV*INDBM*1	05/04/94	0457	3.72	19.92
14	INDAH21	ICV*INDAH*1	05/04/94	0540	3.72	19.91
15	INDBH21	ICV*INDBH*1	05/04/94	0622	3.72	19.92
16	PIBLK21	MB*PIBLK*1	05/04/94	0704	3.72	19.91
17	PEM22	CK*PEM*2	05/04/94	0747	3.72	19.91
18	PIBLK22	MB*PIBLK*2	05/04/94	1325	3.72	19.91
19	INDAM22	CCS*INDAM*2	05/04/94	1408	3.72	19.91
20	INDBM22	CCS*INDBM*2	05/04/94	1450	3.72	19.91
21	PBLK1	MB*QC*1	05/04/94	1821	3.72	19.91
22	A1101007	CDMHNSS*21	05/04/94	1904	3.72	19.91
23	A1101007MS	SPM1*CDMHNSS	05/04/94	2028	3.72	19.91
24	A1101007MSD	SPM2*CDMHNSS	05/04/94	2154	3.72	19.91
25	PIBLK23	MB*PIBLK*3	05/04/94	2318	3.72	19.91
26	PEM23	CK*PEM*3	05/05/94	0000	3.72	19.91
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

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

9A

PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Florisil Cartridge Lot Number: G27570 Date of Analysis: 9-20-93

GC Column(1): DB608 ID: .53 (mm) GC Column (2): DB1701 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC	0.010	0.010	100.0	80-120
gamma-BHC (Lindane)	0.010	0.011	110.0	80-120
Heptachlor	0.010	0.011	110.0	80-120
Endosulfan I	0.010	0.011	110.0	80-120
Dieldrin	0.020	0.021	105.0	80-120
Endrin	0.020	0.021	105.0	80-120
4,4'-DDD	0.020	0.021	105.0	80-120
4,4'-DDT	0.020	0.022	110.0	80-120
Methoxychlor	0.10	0.11	110.0	80-120
Tetrachloro-m-xylene	0.010	0.011	110.0	80-120
Decachlorobiphenyl	0.020	0.023	115.0	80-120

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

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK1	MB*QC*1	05/04/94	05/04/94
02	A1101007	CDMHNSS*21	05/04/94	05/04/94
03	A1101007MS	SPM1*CDMHNSS	05/04/94	05/04/94
04	A1101007MSD	SPM2*CDMHNSS	05/04/94	05/04/94
05				
06				
07				
08				
09				
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17				
18				
19				
20				
21				
22				
23				

9B

PESTICIDE GPC CALIBRATION

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

GPC Column 531002A Calibration Date: 5-3-94

GC Column(1): DB608 ID: .53 (mm) GC Column (2): DB1701 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	50	39	80	80-110
Heptachlor	50	41	80	80-110
Aldrin	50	43	90	80-110
Dieldrin	100	100	100	80-110
Endrin	100	110	110	80-110
4,4'-DDT	100	100	100	80-110

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

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK1	MB*QC*1	05/04/94	05/04/94
02	A1101007	CDMHNSS*21	05/04/94	05/04/94
03	A1101007MS	SPM1*CDMHNSS	05/04/94	05/04/94
04	A1101007MSD	SPM2*CDMHNSS	05/04/94	05/04/94
05				
06				
07				
08				
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10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

A1101007MS

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Lab Sample ID : SPM1*CDMHNSS*21 Date(s) Analyzed: 05/04/94 05/04/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.24	8.19	8.29	13.05	
	2	5.95	5.90	6.00	13.08	0.2
Heptachlor	1	9.33	9.28	9.38	12.21	
	2	6.41	6.36	6.46	11.62	5.1
Aldrin	1	10.52	10.47	10.57	11.65	
	2	7.09	7.04	7.14	11.44	1.8
Dieldrin	1	15.52	15.45	15.59	26.86	
	2	11.30	11.23	11.37	25.49	5.4
Endrin	1	16.78	16.71	16.78	27.46	
	2	12.05	11.98	12.12	25.76	6.6
4,4'-DDT	1	18.18	18.11	18.18	28.53	
	2	14.70	14.63	14.70	26.67	7.0
	1					
	2					
	1					
	2					

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

A1101007MSD

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Lab Sample ID : SPM2*CDMHNSS*21 Date(s) Analyzed: 05/04/94 05/04/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.24	8.19	8.29	15.68	
	2	5.95	5.90	6.00	16.01	2.1
Heptachlor	1	9.33	9.28	9.38	14.26	
	2	6.41	6.36	6.46	14.32	0.4
Aldrin	1	10.52	10.47	10.57	14.21	
	2	7.09	7.04	7.14	13.86	2.5
Dieldrin	1	15.52	15.45	15.59	32.59	
	2	11.30	11.23	11.37	31.12	4.7
4,4'-DDE	1	15.33	15.27	15.33	2.91	
	2	10.85	10.78	10.92	2.67	9.0
Endrin	1	16.78	16.71	16.78	32.87	
	2	12.05	11.98	12.05	30.99	6.1
4,4'-DDT	1	18.17	18.11	18.17	38.44	
	2	14.70	14.63	14.77	35.94	7.0
	1					
	2					

Software Version: 4.0<1C29>
Sample Name : CK*RESC*1 Time : 5/10/94 10:42 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/3/94 07:47 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A005.RAW
Result File : C:\TC4\HP58909\557A005.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A005.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A005.RST
Calib Method : C:\TC4\HP58909\557ARES from C:\TC4\HP58909\557A005.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 14

DATA REPORT

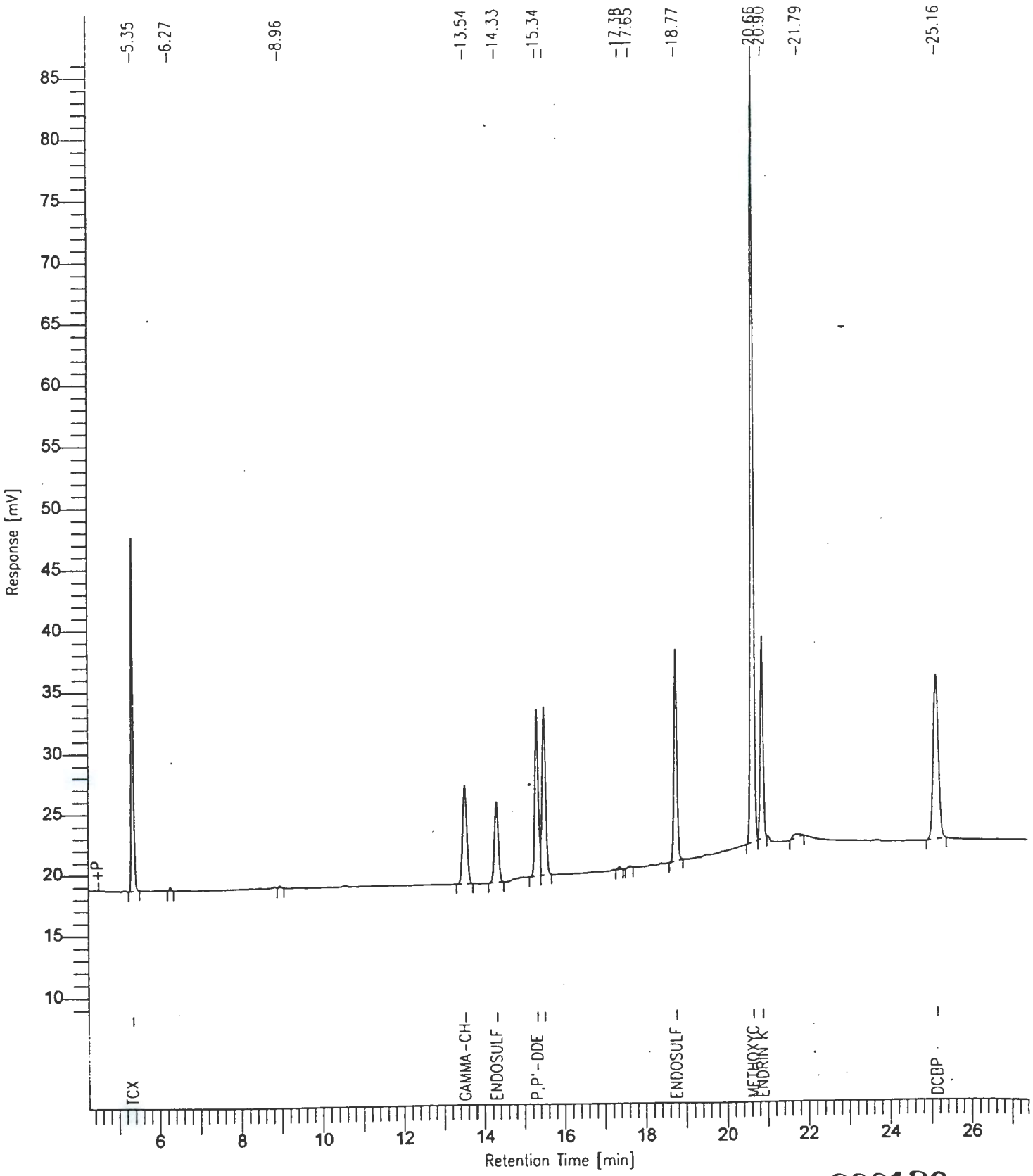
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.354	TCX	100794	B	29397	-8e-15	0.0200
4	13.542	GAMMA-CHLORDANE	59816	B	8127	0.0000	0.0100
5	14.327	ENDOSULFAN A	45086	B	6691	3e-15	0.0100
6	15.335	P,P'-DDE	78954	B	13763	2e-15	0.0200
7	15.515	DIELDRIN	83009	V	13869	8e-16	0.0200
10	18.774	ENDOSULFAN SULFATE	87597	B	17413	-6e-15	0.0200
11	20.663	METHOXYCHLOR	323223	B	65507	-6e-15	0.1000
12	20.899	ENDRIN KETONE	81796	V	16659	5e-15	0.0200
14	25.157	DCBP	120120	B	13536	-7e-15	0.0200
			980395		184961		0.2400

9513355.1214

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\557A005.RAW
Method :
Start Time : 4.25 min End Time : 27.42 min
Scale Factor: 0.0 Plot Offset: 9 mV

Sample #:
Date : 5/10/94 10:42 AM
Time of Injection: 5/3/94 07:47 PM
Low Point : 8.54 mV High Point : 86.28 mV
Plot Scale: 77.7 mV



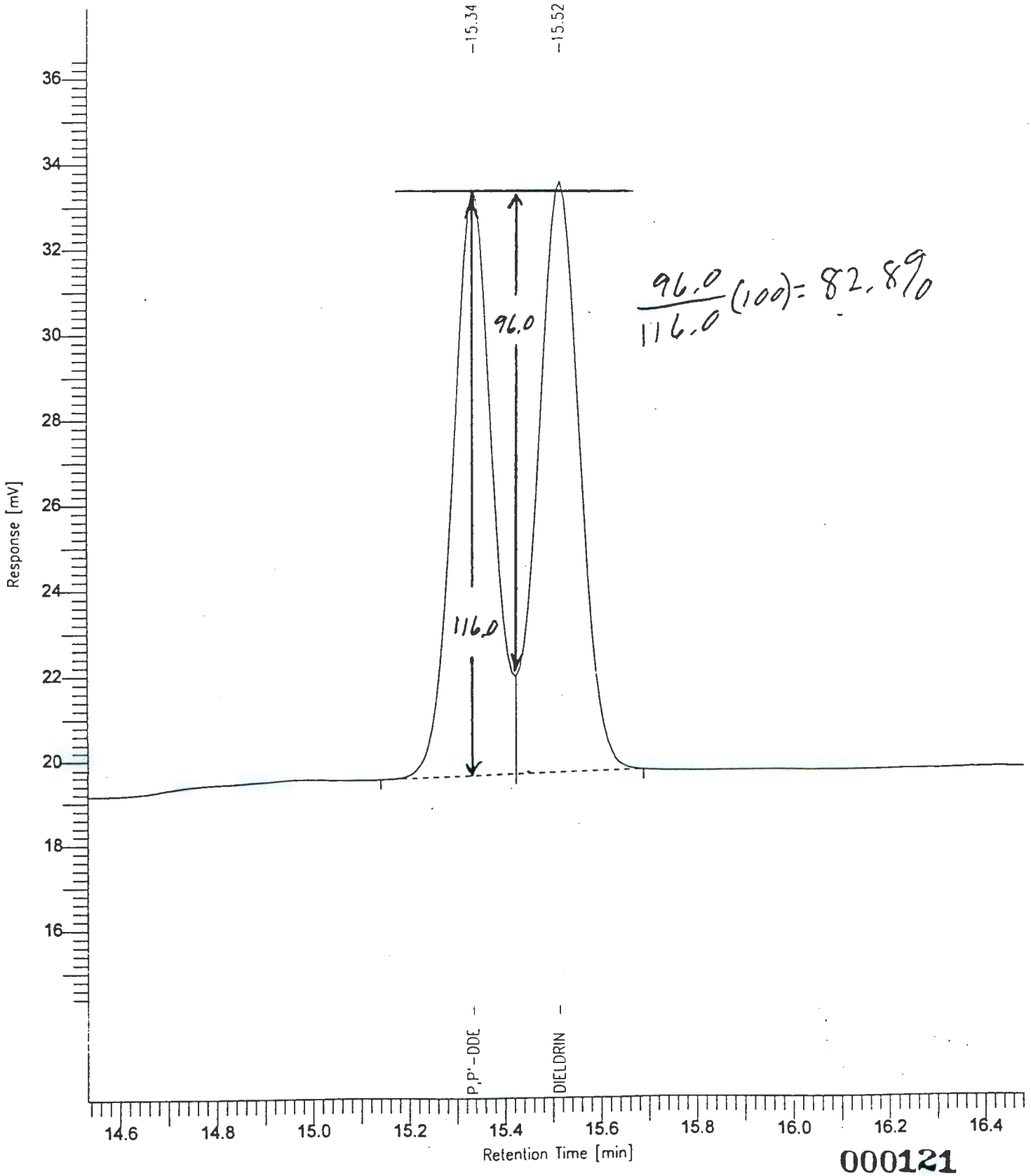
000120

9513355.1215

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\557A005.RAW
Method :
Start Time : 14.53 min End Time : 16.48 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #:
Date : 5/10/94 10:42 AM
Time of Injection: 5/3/94 07:47 PM
Low Point : 14.21 mV High Point : 36.54 mV
Plot Scale: 22.3 mV



$\frac{96.0}{116.0}(100) = 82.8\%$

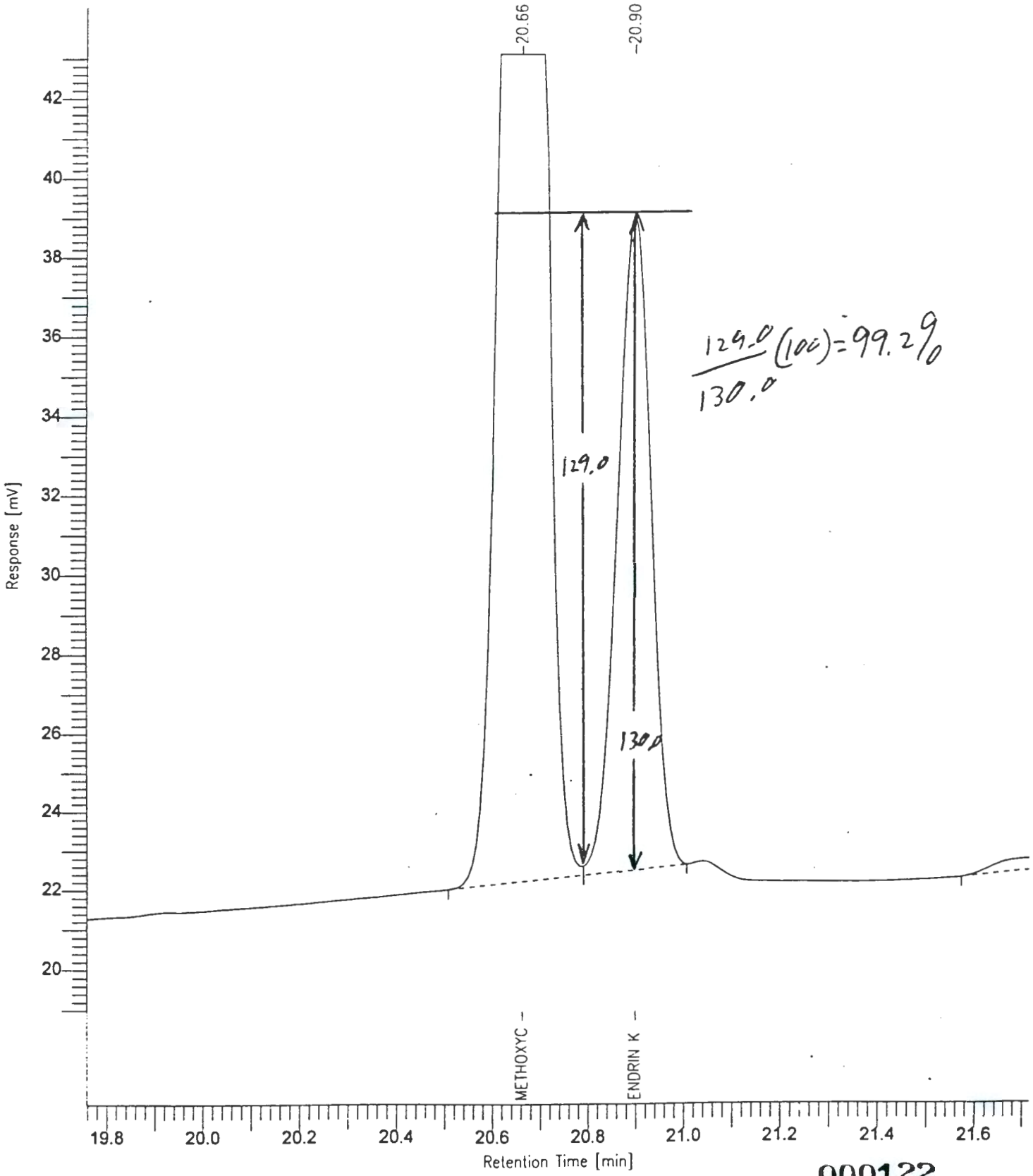
000121

9513355.1216

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\557A005.RAW
Method :
Start Time : 19.76 min End Time : 21.72 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #:
Date : 5/10/94 10:43 AM
Time of Injection: 5/3/94 07:47 PM
Low Point : 18.96 mV High Point : 43.09 mV
Plot Scale: 24.1 mV



$\frac{129.0}{130.0}(100) = 99.2\%$

000122

Software Version: 4.0<1C29>
Sample Name : CK*PEM*1 Time : 5/10/94 10:44 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/3/94 08:29 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A006.RAW
Result File : C:\TC4\HP58909\557A006.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A006.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A006.RST
Calib Method : C:\TC4\HP58909\557APEM from C:\TC4\HP58909\557A006.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 18

DATA REPORT

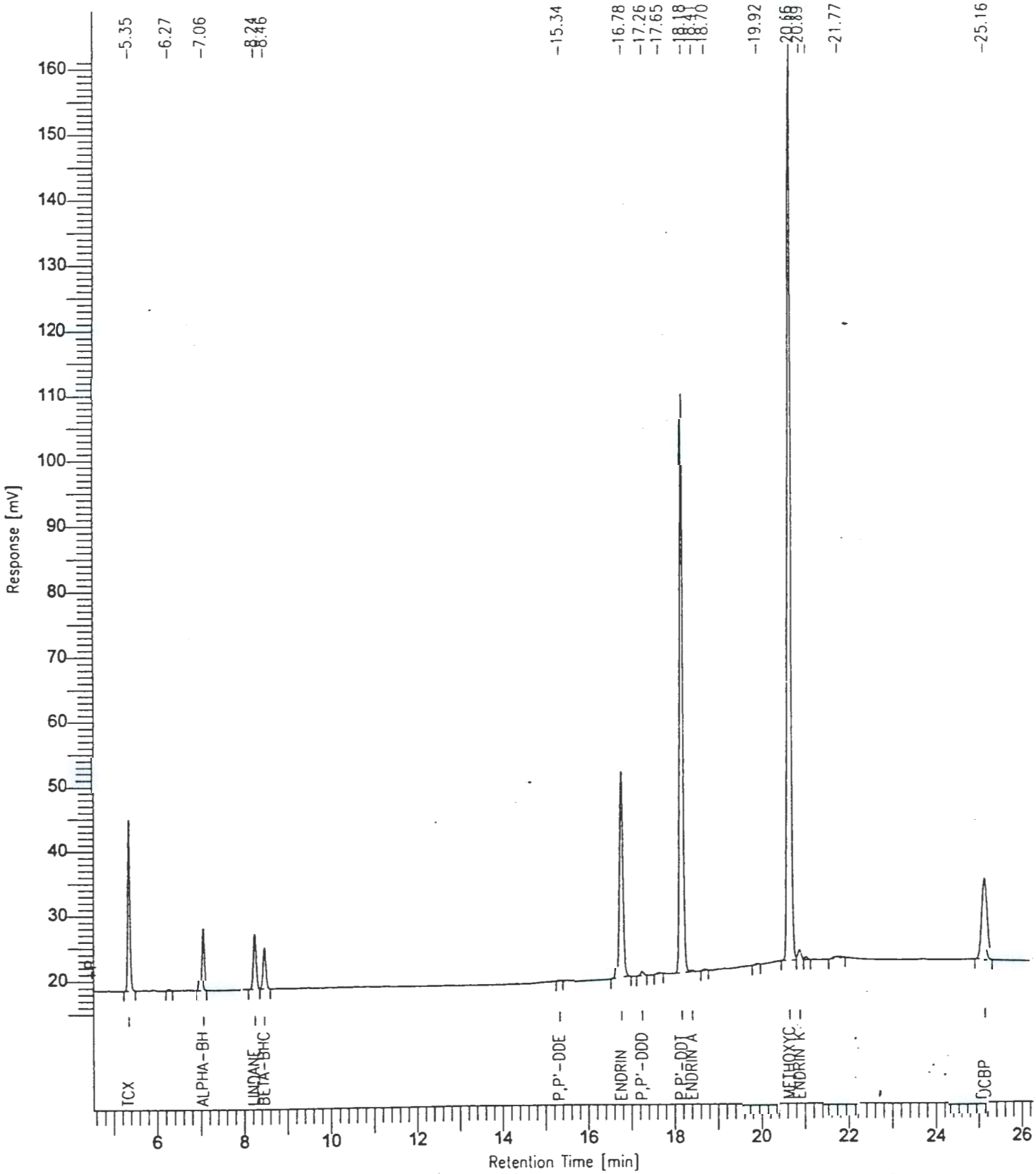
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.353	TCX	89975	B	26550	0.0056
3	7.056	ALPHA-BHC	37856	B	9445	0.0022
4	8.237	LINDANE	38606	B	8452	-0.0078
5	8.459	BETA-BHC	28784	V	6239	-0.0092
7	16.779	ENDRIN	172794	B	32178	0.0029
8	17.258	P,P'-DDD	3420	B	668	-0.0025
10	18.177	P,P'-DDT	433094	B	89287	0.0155
11	18.410	ENDRIN ALDEHYDE	1787	E	328	-0.0156
14	20.663	METHOXYCHLOR	748037	B	146291	-0.0042
15	20.893	ENDRIN KETONE	8665	V	1633	-0.0304
18	25.158	DCBP	109202	B	12523	0.0008

9513355.1218

Chromatogram

Sample Name : CK*PEM*1
FileName : C:\TC4\HP58909\557A006.RAW
Method :
Start Time : 4.53 min End Time : 26.28 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 5/10/94 10:44 AM
Time of Injection: 5/3/94 08:29 PM
Low Point : 14.76 mV High Point : 161.64 mV
Plot Scale: 146.9 mV



000124

Software Version: 4.0<1C29>
Sample Name : ICV*AR1660*1 Time : 5/10/94 11:57 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/3/94 09:12 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A007.RAW
Result File : C:\TC4\HP58909\557A007.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A007.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A007.RST
Calib Method : C:\TC4\HP58909\557A1660 from C:\TC4\HP58909\557A007.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 51

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.353	TCX	95073	B	27920	7e-15	0.0200
5	6.946	PCB-1016-1	13658	B	3165	0.0000	0.1000
7	8.178	PCB-1016-2	34234	V	6013	-6e-15	0.1000
9	8.878		3450	B	832	-------	3.4500e-08
10	9.158		9768	B	1836	-------	9.7683e-08
11	9.387	PCB-1016-3	50515	V	6749	1e-15	0.1000
12	9.981		19770	B	3186	-------	1.9770e-07
14	10.561		23498	B	2547	-------	2.3498e-07
15	10.754		11008	B	1666	-------	1.1008e-07
17	11.866		20169	B	2636	-------	2.0169e-07
18	12.036		7574	V	1181	-------	7.5735e-08
19	12.380		11943	V	1311	-------	1.1943e-07

Result File : 557A007.RST, Printed On 5/10/94 11:57 AM

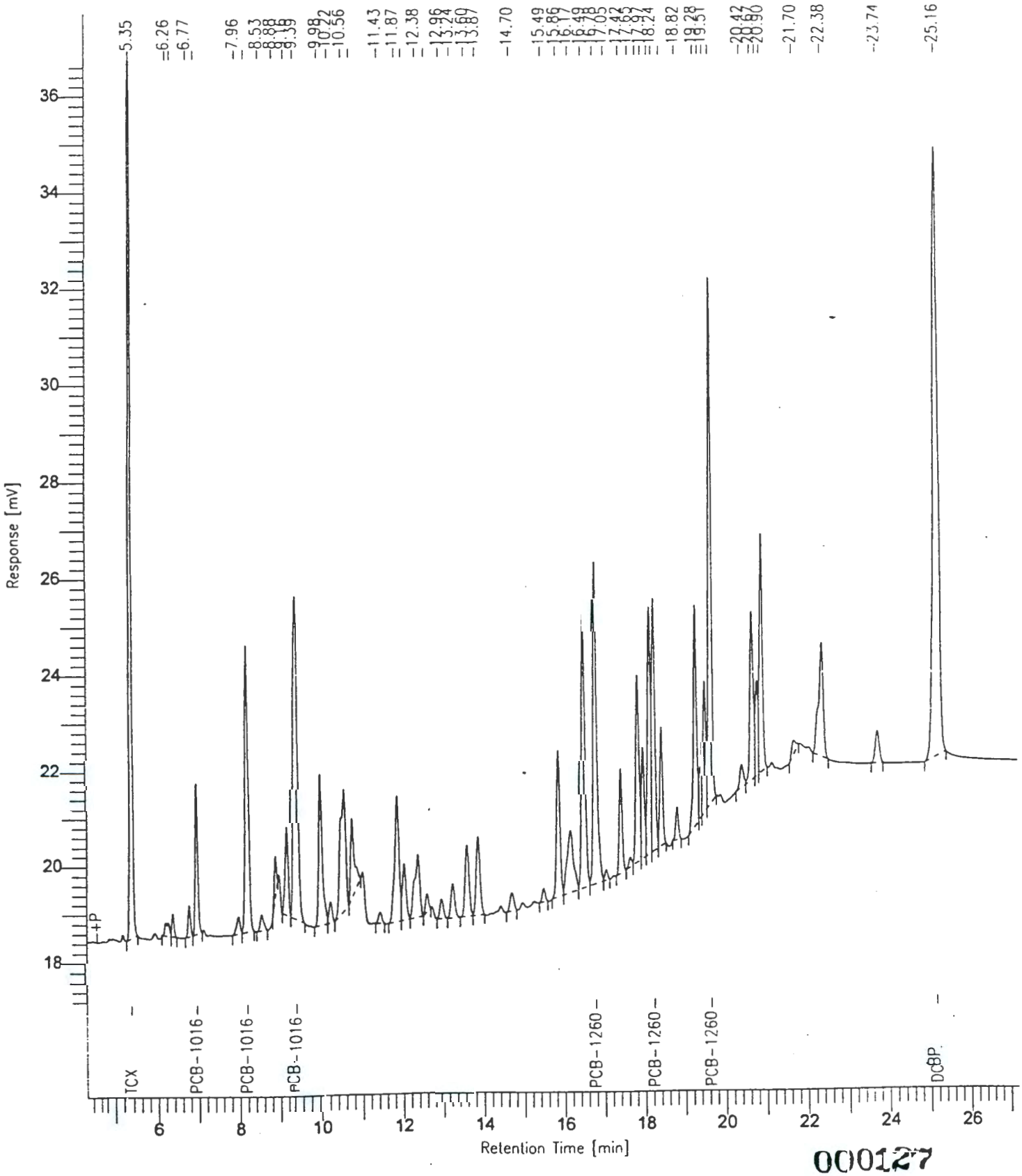
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
22	13.236		4772	B	720	-------	4.7715e-08
23	13.598		10397	B	1493	-------	1.0397e-07
24	13.871		11002	V	1654	-------	1.1002e-07
27	15.864		18559	B	3085	-------	1.8559e-07
28	16.167		14673	V	1301	-------	1.4673e-07
29	16.491		35843	V	5721	-------	3.5843e-07
30	16.779	PCB-1260-1	41930	V	6752	-4e-15	0.1000
32	17.419		11215	B	2209	-------	1.1215e-07
34	17.839		23350	V	3924	-------	2.3350e-07
35	17.969		11955	V	2342	-------	1.1955e-07
36	18.133		28198	V	5156	-------	2.8198e-07
37	18.237	PCB-1260-2	27134	V	5304	3e-15	0.1000
38	18.426		12427	V	2499	-------	1.2427e-07
40	19.277		25609	B	4617	-------	2.5609e-07
41	19.396		4531	V	1099	-------	4.5310e-08
42	19.508		14203	V	2746	-------	1.4203e-07
43	19.651	PCB-1260-3	54731	V	10920	2e-15	0.1000
45	20.668		20638	V	3497	-------	2.0638e-07
46	20.794		9329	V	1982	-------	9.3287e-08
47	20.900		25356	V	4947	-------	2.5356e-07
49	22.376		18904	B	2373	-------	1.8904e-07
50	23.735		4672	B	670	-------	4.6715e-08
51	25.157	DCBP	112808	B	12659	2e-15	0.0200
			842894		146711		0.6400

9513555.1221

Chromatogram

Sample Name : ICV*AR1660*1
FileName : C:\TC4\HP58909\557A007.RAW
Method :
Start Time : 4.25 min End Time : 27.18 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/10/94 11:46 AM
Time of Injection: 5/3/94 09:12 PM
Low Point : 17.14 mV High Point : 36.74 mV
Plot Scale: 19.6 mV



000127

9513355.1222

Software Version: 4.0<1C29>
Sample Name : ICV*AR1221*1 Time : 5/10/94 11:49 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/3/94 09:54 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A008.RAW
Result File : C:\TC4\HP58909\557A008.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A008.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A008.RST
Calib Method : C:\TC4\HP58909\557A1221 from C:\TC4\HP58909\557A008.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 24

DATA REPORT

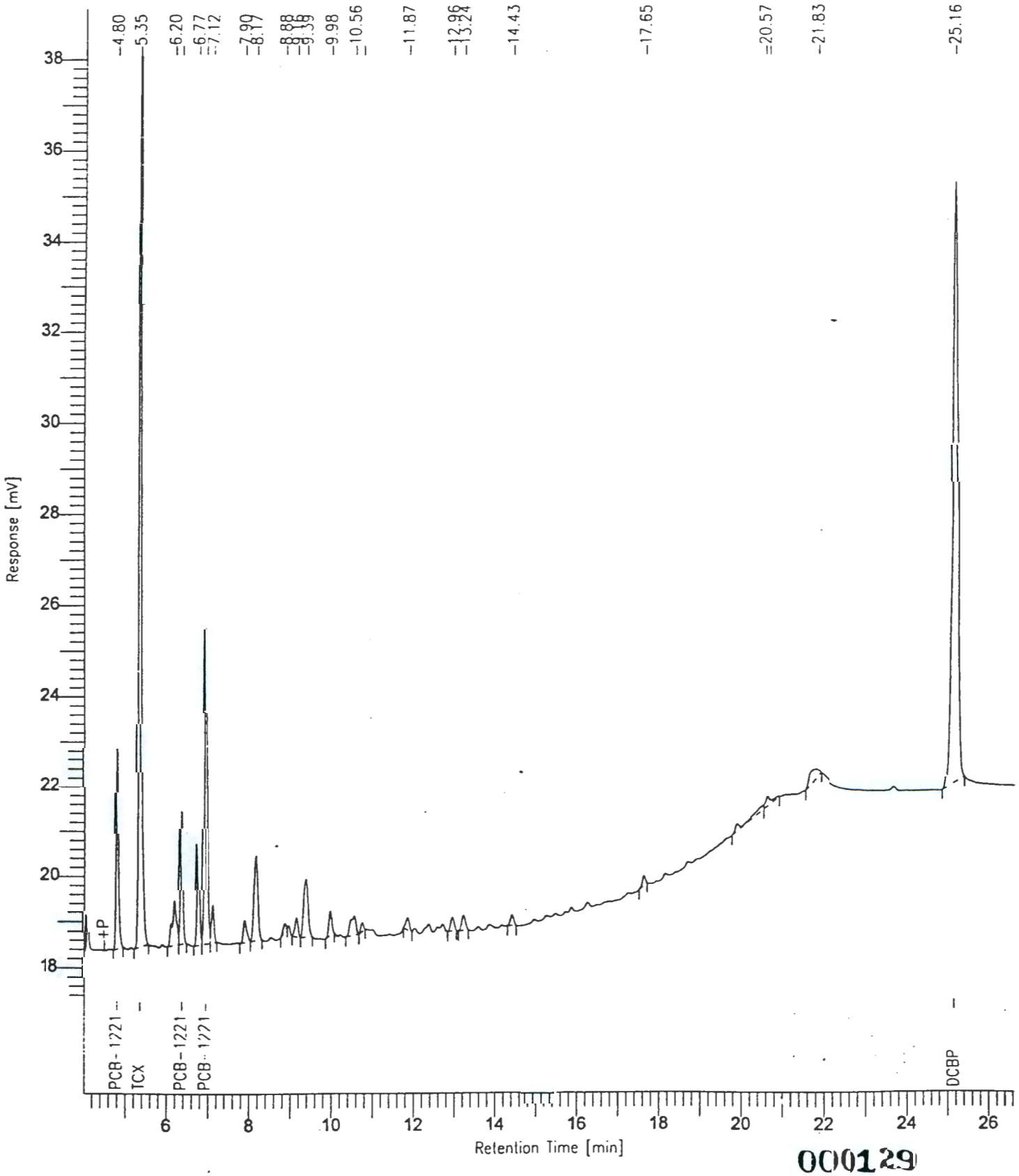
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	4.804	PCB-1221-1	17293	B	4506	0.0000	0.2000
2	5.353	TCX	102539	B	28209	4e-15	0.0200
3	6.198		7293	B	978	-------	7.2933e-08
4	6.368	PCB-1221-2	11926	V	2930	-9e-16	0.2000
5	6.767		9612	B	2235	-------	9.6117e-08
6	6.946	PCB-1221-3	32207	V	7027	-3e-15	0.2000
7	7.119		3655	V	833	-------	3.6553e-08
9	8.169		12253	V	1864	-------	1.2253e-07
12	9.389		9535	B	1272	-------	9.5353e-08
14	10.562		3932	B	417	-------	3.9325e-08
23	21.831		3921	B	203	-------	3.9213e-08
24	25.159	DCBP	117022	B	13239	-2e-15	0.0200

9513355.1223

Chromatogram

Sample Name : ICV*AR1221*1
FileName : C:\TC4\HP58909\557A008.RAW
Method :
Start Time : 4.01 min End Time : 26.66 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/10/94 11:49 AM
Time of Injection: 5/3/94 09:54 PM
Low Point : 17.27 mV High Point : 38.08 mV
Plot Scale: 20.8 mV



000129

9513355.1224

Software Version: 4.0<1C29>
Sample Name : ICV*AR1232*1 Time : 5/10/94 11:58 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/3/94 10:36 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A009.RAW
Result File : C:\TC4\HP58909\557A009.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A009.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A009.RST
Calib Method : C:\TC4\HP58909\557A1232 from C:\TC4\HP58909\557A009.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 32

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	4.805		4725	B	1271	-------	4.7250e-08
2	5.354	TCX	97720	B	28486	3e-15	0.0200
4	6.369		3446	B	950	-------	3.4465e-08
5	6.768		3790	B	907	-------	3.7896e-08
6	6.948	PCB-1232-1	15553	V	3505	-6e-15	0.1000
9	8.177	PCB-1232-2	16481	V	2827	4e-15	0.1000
11	9.158		4353	B	828	-------	4.3528e-08
12	9.390	PCB-1232-3	21885	B	2908	6e-15	0.1000
13	9.981		8057	B	1372	-------	8.0570e-08
14	10.562		9849	B	1047	-------	9.8490e-08
16	11.864		9205	B	1113	-------	9.2050e-08
18	12.381		5046	B	581	-------	5.0460e-08

9513355.1225

Result File : 557A009.RST, Printed On 5/10/94 11:58 AM

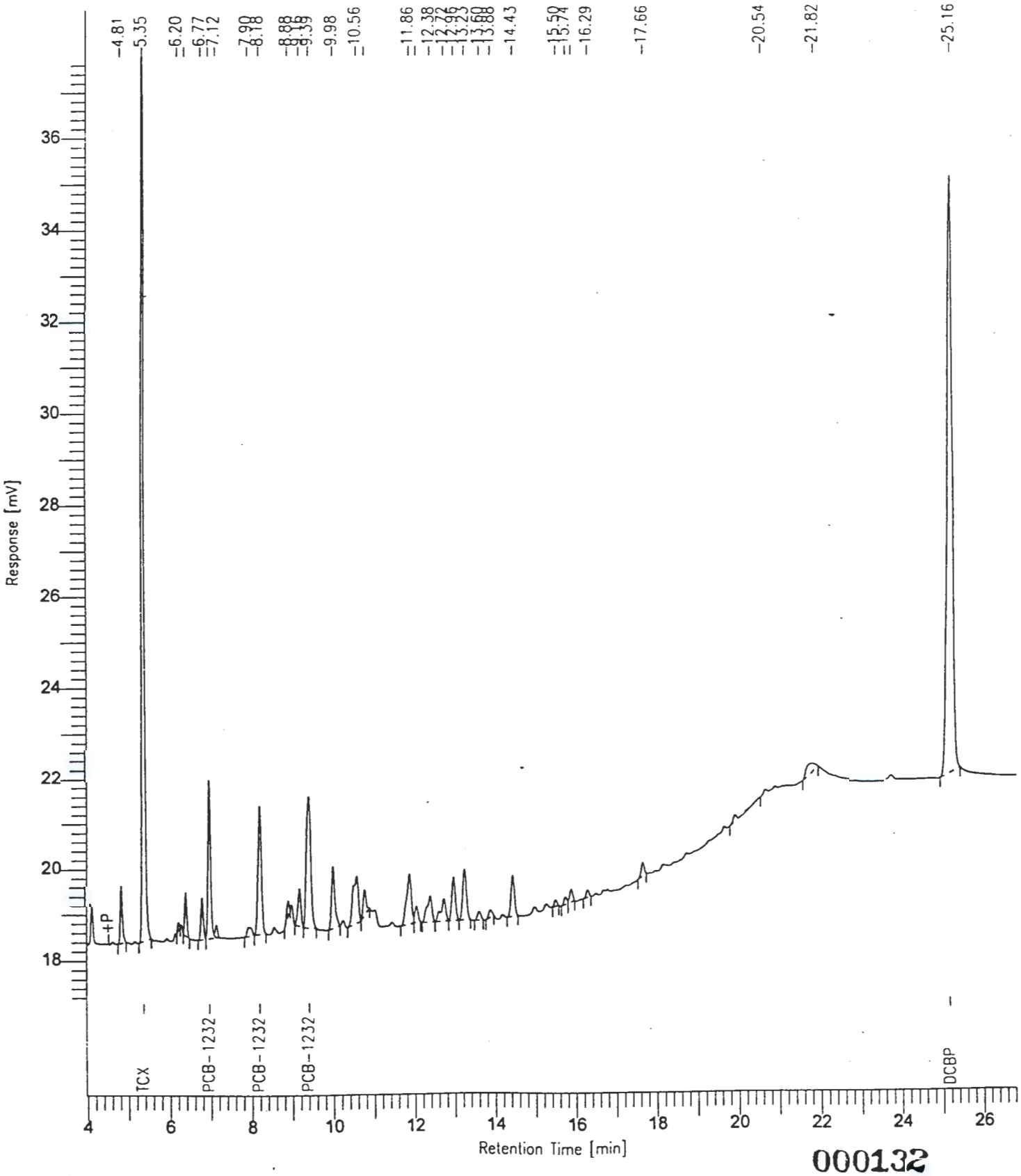
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
19	12.723		4239	B	497	-------	4.2391e-08
20	12.961		5944	V	968	-------	5.9436e-08
21	13.232		7236	B	1124	-------	7.2365e-08
24	14.429		5428	B	914	-------	5.4283e-08
32	25.160	DCBP	115646	B	13103	-6e-15	0.0200
			338604		62399		0.3400

9513355.1226

Chromatogram

Sample Name : ICV*AR1232*1
FileName : C:\TC4\HP58909\557A009.RAW
Method :
Start Time : 3.97 min End Time : 26.81 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/10/94 11:58 AM
Time of Injection: 5/3/94 10:36 PM
Low Point : 17.08 mV High Point : 37.78 mV
Plot Scale: 20.7 mV



9513355.1227

Software Version: 4.0<1C29>
Sample Name : ICV*AR1242*1 Time : 5/10/94 11:59 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/3/94 11:19 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A010.RAW
Result File : C:\TC4\HP58909\557A010.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A010.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A010.RST
Calib Method : C:\TC4\HP58909\557A1242 from C:\TC4\HP58909\557A010.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 38

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.353	TCX	95994	B	28547	-6e-15	0.0200
5	6.947	PCB-1242-1	12672	B	2959	-6e-15	0.1000
7	8.179	PCB-1242-2	27360	V	4895	0.0000	0.1000
10	9.157		8141	B	1516	-------	8.1410e-08
11	9.389	PCB-1242-3	40138	B	5375	-4e-15	0.1000
12	9.982		16116	B	2601	-------	1.6116e-07
14	10.560		18264	B	1917	-------	1.8264e-07
15	10.754		7940	B	1264	-------	7.9405e-08
16	11.863		18015	B	2140	-------	1.8015e-07
17	12.034		4937	V	789	-------	4.9371e-08
18	12.382		10579	V	1202	-------	1.0579e-07
20	12.722		6716	V	1093	-------	6.7162e-08

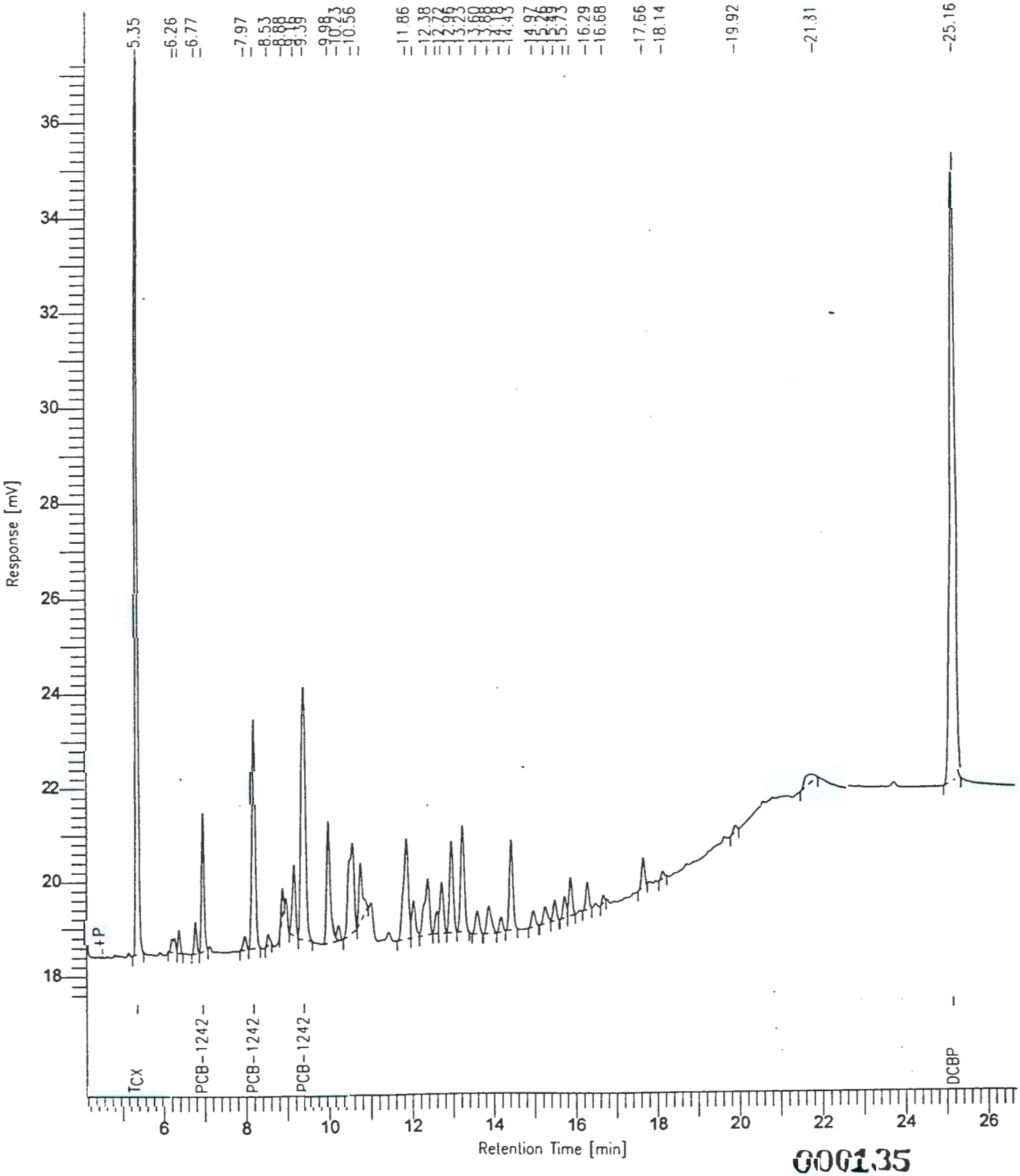
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
21	12.960		12132	B	1956	-------	1.2133e-07
22	13.232		14664	B	2273	-------	1.4664e-07
24	13.877		4678	B	590	-------	4.6780e-08
26	14.428		11593	V	1928	-------	1.1593e-07
31	15.878		4531	V	823	-------	4.5314e-08
38	25.159	DCBP	116001	B	13253	4e-15	0.0200
			430472		75123		0.3400

9513355.1229

Chromatogram

Sample Name : ICV*AR1242*1
FileName : C:\TC4\HP58909\557A010.RAW
Method :
Start Time : 4.11 min End Time : 26.71 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/10/94 11:59 AM
Time of Injection: 5/3/94 11:19 PM
Low Point : 17.43 mV High Point : 37.36 mV
Plot Scale: 19.9 mV



000135

Software Version: 4.0<1C29>
Sample Name : ICV*AR1248*1 Time : 5/10/94 12:00 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 12:01 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A011.RAW
Result File : C:\TC4\HP58909\557A011.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A011.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A011.RST
Calib Method : C:\TC4\HP58909\557A1248 from C:\TC4\HP58909\557A011.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 35

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.354	TCX	95085	B	27958	0.0000	0.0200
4	8.176		12596	B	2382	-------	1.2596e-07
7	9.371	PCB-1248-1	25520	B	3334	0.0000	0.1000
8	9.979		6988	B	1204	-------	6.9882e-08
9	10.222		3383	V	567	-------	3.3830e-08
10	10.564		28555	V	3835	-------	2.8555e-07
11	10.752		26598	V	2765	-------	2.6598e-07
12	11.005		7045	V	1134	-------	7.0453e-08
14	11.865	PCB-1248-2	26266	B	3689	-3e-15	0.1000
15	12.032		7762	V	1251	-------	7.7625e-08
16	12.378		20563	V	2194	-------	2.0563e-07
17	12.721		17039	V	1961	-------	1.7039e-07

9513355.1231

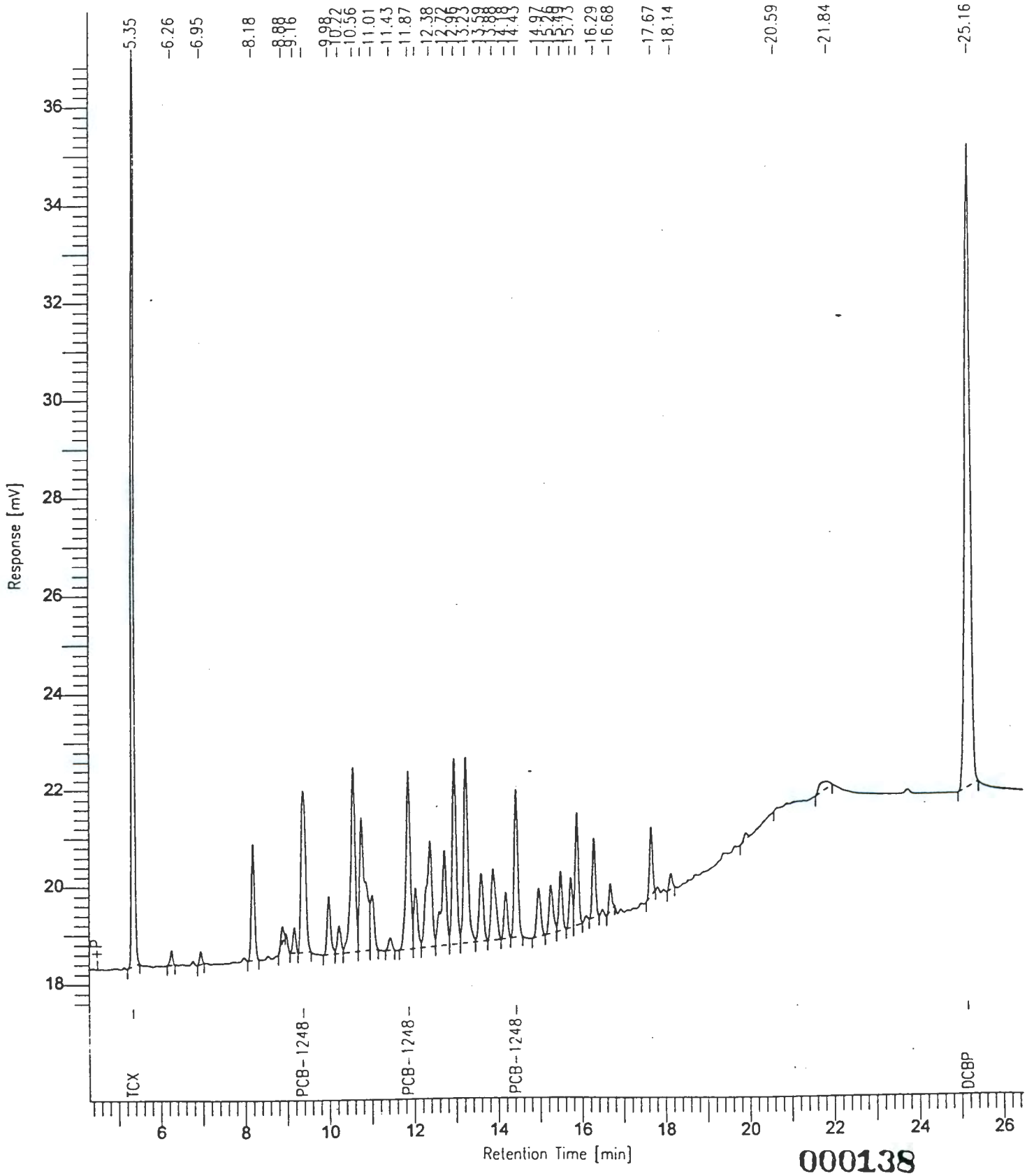
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
18	12.958		25828	V	3863	-------	2.5828e-07
19	13.230		27497	V	3873	-------	2.7497e-07
20	13.594		9952	V	1415	-------	9.9517e-08
21	13.875		12043	V	1481	-------	1.2043e-07
22	14.177		5634	B	969	-------	5.6341e-08
23	14.427	PCB-1248-3	18569	V	3064	8e-16	0.1000
24	14.968		6552	B	1005	-------	6.5525e-08
25	15.258		6842	B	999	-------	6.8417e-08
26	15.490		6943	V	1232	-------	6.9428e-08
27	15.732		5450	B	1029	-------	5.4497e-08
28	15.880		13217	V	2343	-------	1.3217e-07
29	16.290		8654	B	1632	-------	8.6543e-08
31	17.666		7101	B	1417	-------	7.1013e-08
35	25.158	DCBP	114646	B	13191	5e-15	0.0200
			546330		89788		0.3400

9513355.1232

Chromatogram

Sample Name : ICV*AR1248*1
FileName : C:\TC4\HP58909\557A011.RAW
Method :
Start Time : 4.30 min End Time : 26.48 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/10/94 12:00 PM
Time of Injection: 5/4/94 12:01 AM
Low Point : 17.52 mV High Point : 36.98 mV
Plot Scale: 19.5 mV



000138

9513355.1233

Software Version: 4.0<1C29>
Sample Name : ICV*AR1254*1 Time : 5/10/94 12:00 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 12:43 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A012.RAW
Result File : C:\TC4\HP58909\557A012.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A012.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A012.RST
Calib Method : C:\TC4\HP58909\557A1254 from C:\TC4\HP58909\557A012.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 35

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.353	TCX	96366	B	27993	6e-15	0.0200
3	10.566		17665	B	2890	-------	1.7665e-07
4	10.752		3522	V	629	-------	3.5225e-08
5	11.866		7869	B	1282	-------	7.8688e-08
8	12.959		11898	V	1837	-------	1.1898e-07
10	13.597		31954	B	4435	-------	3.1954e-07
11	13.873	PCB-1254-1	39367	V	5177	-9e-16	0.1000
12	14.179		13452	V	2113	-------	1.3452e-07
14	14.967		12501	B	1921	-------	1.2501e-07
15	15.256		13561	V	2069	-------	1.3561e-07
16	15.491		19433	V	3376	-------	1.9433e-07
17	15.733		5389	B	1084	-------	5.3893e-08

000139

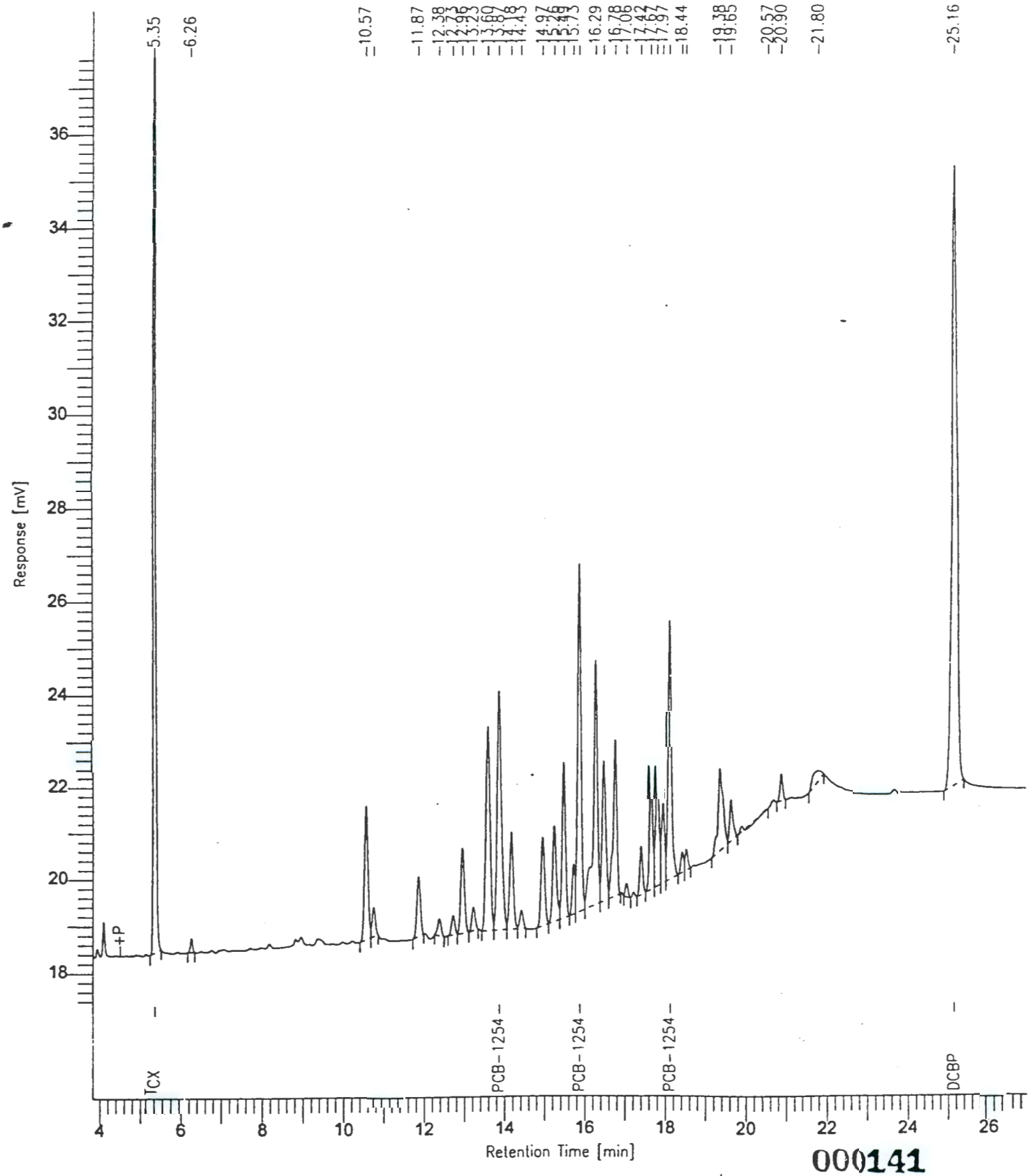
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
18	15.879	PCB-1254-2	44658	V	7536	1e-15	0.1000
19	16.290		38525	V	5288	-------	3.8525e-07
20	16.491		19539	V	3053	-------	1.9539e-07
21	16.778		21761	V	3405	-------	2.1761e-07
23	17.419		5335	B	1051	-------	5.3351e-08
24	17.667		14787	V	2706	-------	1.4787e-07
25	17.825		15795	V	2622	-------	1.5795e-07
26	17.967		9810	V	1731	-------	9.8095e-08
27	18.135	PCB-1254-3	32766	V	5585	-3e-15	0.1000
30	19.379		15751	B	1787	-------	1.5751e-07
31	19.652		5253	V	898	-------	5.2533e-08
34	21.801		3838	B	231	-------	3.8375e-08
35	25.158	DCBP	116966	B	13288	0.0000	0.0200
			617762		103986		0.3400

9513355.1235

Chromatogram

Sample Name : ICV*AR1254*1
FileName : C:\TC4\HP58909\557A012.RAW
Method :
Start Time : 3.83 min End Time : 26.95 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/10/94 12:00 PM
Time of Injection: 5/4/94 12:43 AM
Low Point : 17.31 mV High Point : 37.65 mV
Plot Scale: 20.3 mV



000141

Software Version: 4.0<1C29>
Sample Name : ICV*TOXAPH*1 Time : 5/10/94 12:01 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 01:26 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A013.RAW
Result File : C:\TC4\HP58909\557A013.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A013.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A013.RST
Calib Method : C:\TC4\HP58909\557ATOX from C:\TC4\HP58909\557A013.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 53

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.353	TCX	94641	B	27808	0.0000	0.0200
4	11.674		9599	B	1344	-------	9.5988e-08
7	13.266		6268	B	423	-------	6.2682e-08
8	13.611		16020	V	1828	-------	1.6020e-07
9	14.011		7387	B	1080	-------	7.3870e-08
12	14.748		11384	B	1407	-------	1.1385e-07
13	15.083		12568	B	2005	-------	1.2568e-07
14	15.312		14772	B	2317	-------	1.4772e-07
15	15.479		11626	V	1498	-------	1.1627e-07
16	15.854		7577	B	1513	-------	7.5774e-08
17	16.006		24265	V	2580	-------	2.4265e-07
18	16.298		23940	V	3345	-------	2.3940e-07

9513355.1237

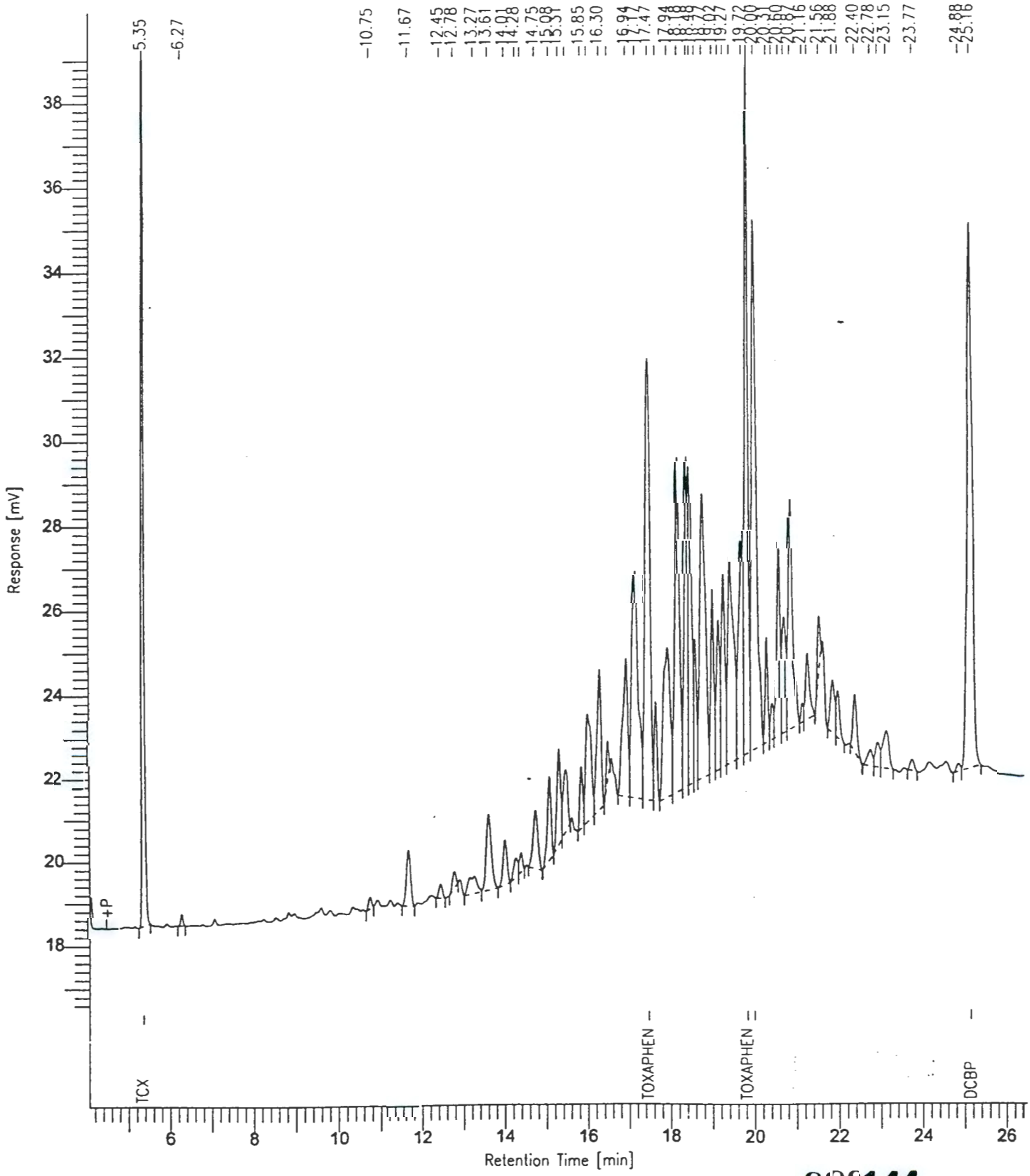
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
19	16.492		4079	B	932	-------	4.0793e-08
20	16.942		28865	B	3274	-------	2.8865e-07
21	17.170		59514	V	5385	-------	5.9514e-07
22	17.472	TOXAPHENE-1	88685	V	10445	0.0000	0.5000
23	17.660		11258	V	2370	-------	1.1258e-07
24	17.944		41522	B	3547	-------	4.1522e-07
25	18.179		62563	V	7929	-------	6.2563e-07
26	18.399		46763	V	7804	-------	4.6763e-07
27	18.478		42431	V	7553	-------	4.2431e-07
28	18.601		15448	V	3392	-------	1.5448e-07
29	18.773		64345	V	6723	-------	6.4345e-07
30	19.017		22262	V	4325	-------	2.2262e-07
31	19.156		20326	V	3530	-------	2.0326e-07
32	19.274		27527	V	4536	-------	2.7527e-07
33	19.427		47665	V	4872	-------	4.7665e-07
34	19.719		38970	V	5117	-------	3.8970e-07
35	19.835	TOXAPHENE-2	86793	V	16911	0.0000	0.5000
36	20.003	TOXAPHENE-3	99089	V	12510	1e-15	0.5000
37	20.308		10963	V	2466	-------	1.0963e-07
38	20.439		4356	V	850	-------	4.3561e-08
39	20.598		26170	V	4607	-------	2.6170e-07
40	20.722		18478	V	2727	-------	1.8478e-07
41	20.873		41910	V	5416	-------	4.1910e-07
43	21.282		10550	V	1543	-------	1.0550e-07
44	21.559		6127	B	1306	-------	6.1270e-08
45	21.876		8877	B	1239	-------	8.8771e-08
46	21.997		6126	V	1101	-------	6.1264e-08
47	22.399		8530	B	1332	-------	8.5305e-08
49	22.946		4420	V	585	-------	4.4196e-08
50	23.153		9042	V	884	-------	9.0416e-08
53	25.156	DCBP	112020	V	12872	3e-15	0.0200
			1315722		195232		1.5400

9513355.1238

Chromatogram

Sample Name : ICV*TOXAPH*1
FileName : C:\TC4\HP58909\557A013.RAW
Method :
Start Time : 4.06 min End Time : 26.52 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #:
Date : 5/10/94 12:01 PM
Time of Injection: 5/4/94 01:26 AM
Low Point : 16.41 mV High Point : 39.01 mV
Plot Scale: 22.6 mV



9513555.1239

Software Version: 4.0<1C29>
Sample Name : ICV*INDAL*1 Time : 5/10/94 10:47 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 02:08 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A014.RAW
Result File : C:\TC4\HP58909\557A014.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A014.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A014.RST
Calib Method : C:\TC4\HP58909\557AAL from C:\TC4\HP58909\557A014.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 17

DATA REPORT

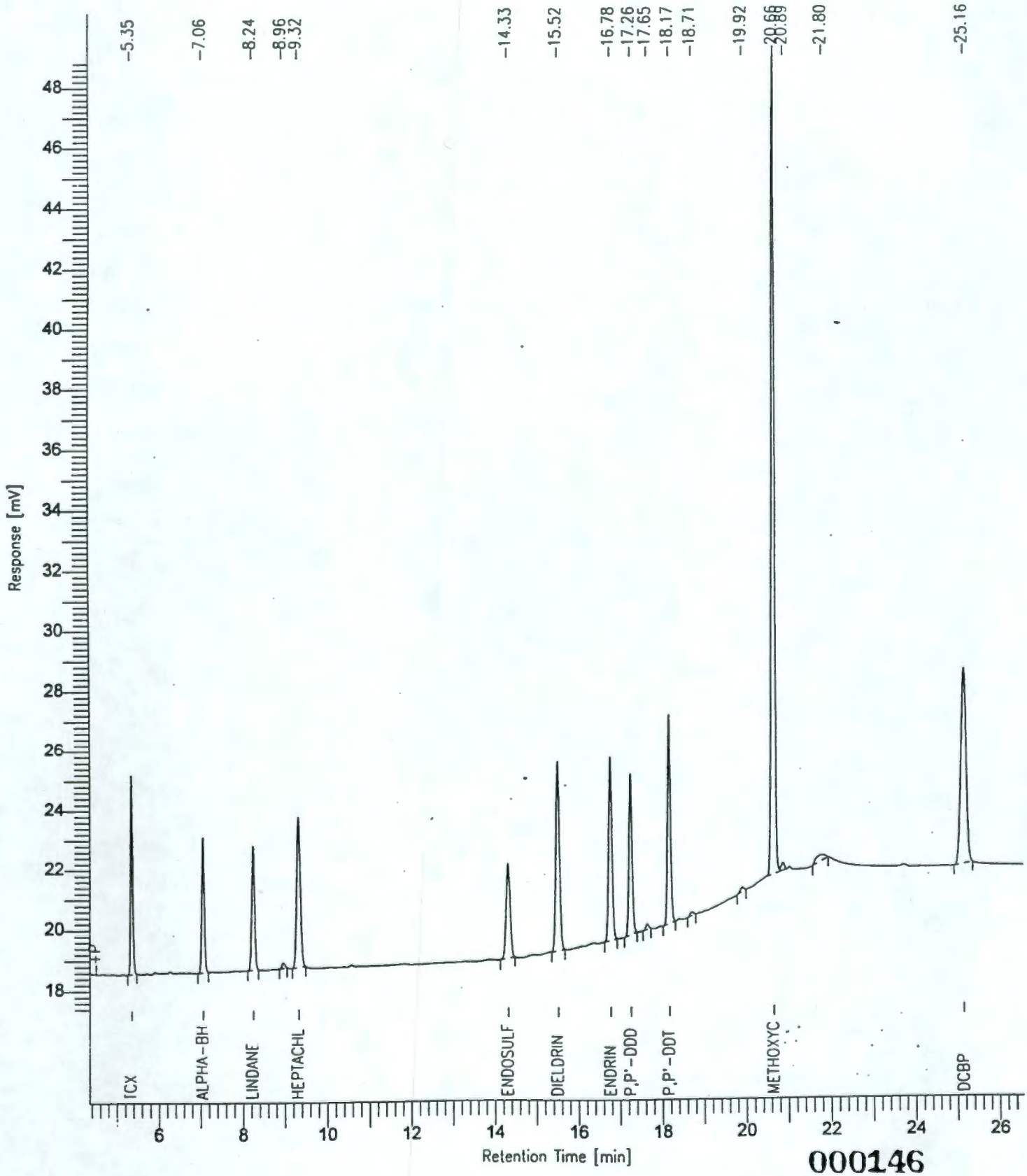
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.352	TCX	22358	B	6657	1e-15	0.0050
2	7.055	ALPHA-BHC	18598	B	4528	6e-15	0.0050
3	8.236	LINDANE	19305	B	4140	-1e-14	0.0050
5	9.324	HEPTACHLOR	30661	B	5037	5e-15	0.0050
6	14.325	ENDOSULFAN A	21260	B	3178	2e-15	0.0050
7	15.516	DIELDRIN	38928	B	6392	5e-15	0.0100
8	16.777	ENDRIN	34168	B	6196	6e-15	0.0100
9	17.258	P,P'-DDD	27814	B	5431	-8e-15	0.0100
11	18.172	P,P'-DDT	35036	B	7039	1e-15	0.0100
14	20.661	METHOXYCHLOR	140040	B	28734	0.0000	0.0500
17	25.157	DCBP	57718	B	6548	4e-15	0.0100

9513355.1240

Chromatogram

Sample Name : ICV*INDAL*1
FileName : C:\TC4\HP58909\557A014.RAW
Method :
Start Time : 4.35 min End Time : 26.57 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/10/94 10:47 AM
Time of Injection: 5/4/94 02:08 AM
Low Point : 17.38 mV High Point : 48.91 mV
Plot Scale: 31.5 mV



000146

Software Version: 4.0<1C29>
Sample Name : ICV*INDBL*1 Time : 5/10/94 10:49 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 02:50 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A015.RAW
Result File : C:\TC4\HP58909\557A015.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A015.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A015.RST
Calib Method : C:\TC4\HP58909\557ABL from C:\TC4\HP58909\557A015.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 17

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.352	TCX	22481	B	6567	6e-15	0.0050
2	8.459	BETA-BHC	14120	B	2972	8e-15	0.0050
4	9.736	DELTA-BHC	16724	B	3257	0.0000	0.0050
5	10.523	ALDRIN	21120	B	3245	-8e-15	0.0050
6	12.829	HEPTACHLOR EPOXIDE	24371	B	3429	6e-15	0.0050
7	13.541	GAMMA-CHLORDANE	29291	B	3899	4e-15	0.0050
8	14.244	ALPHA-CHLORDANE	27858	B	4002	3e-15	0.0050
9	15.334	P,P'-DDE	35858	B	5990	2e-15	0.0100
10	17.384	ENDOSULFAN B	37504	B	6905	-1e-15	0.0100
12	18.410	ENDRIN ALDEHYDE	31543	B	6030	8e-15	0.0100
13	18.773	ENDOSULFAN SULFATE	40390	B	8025	6e-15	0.0100
15	20.899	ENDRIN KETONE	36941	B	7228	1e-15	0.0100

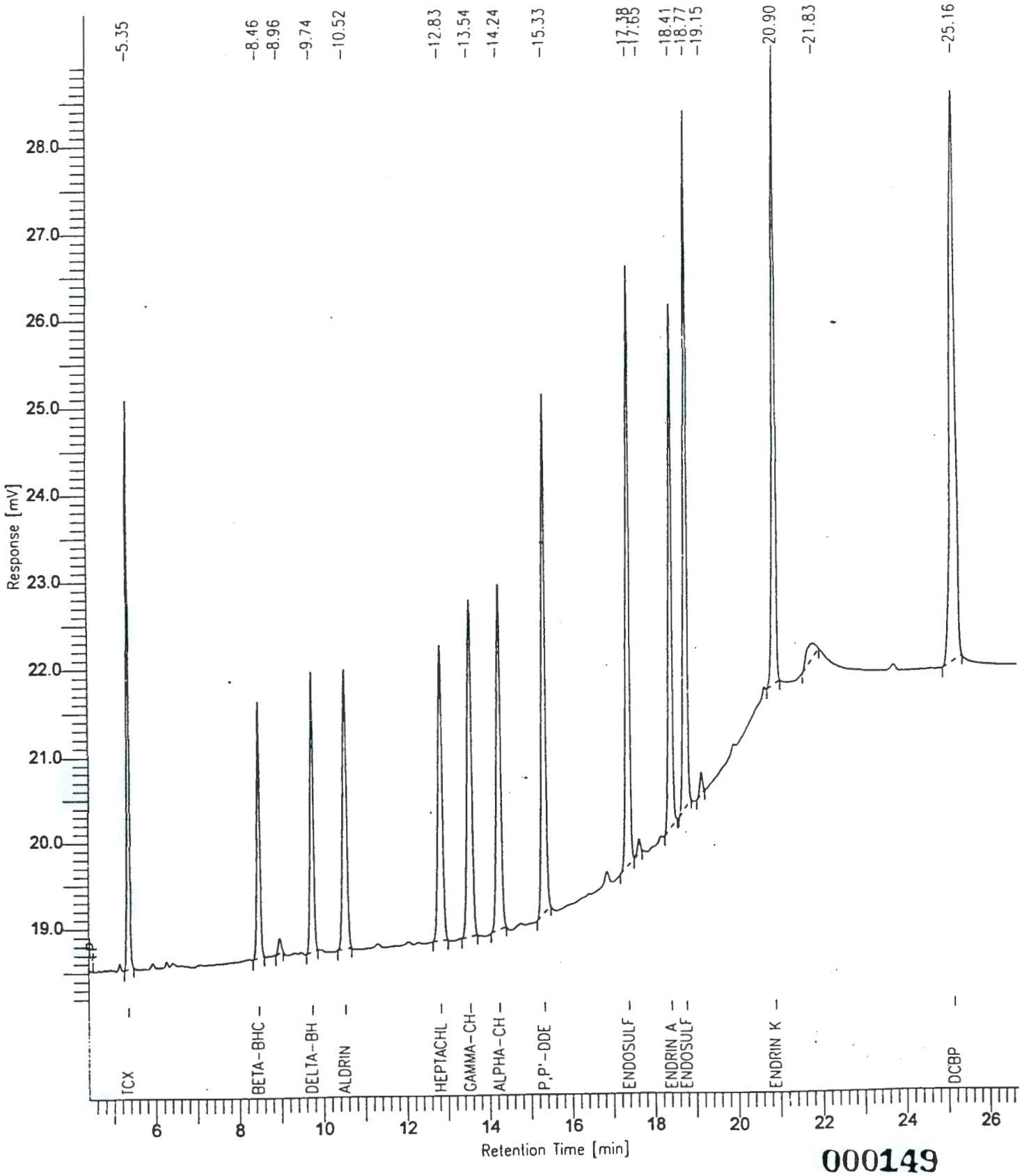
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
17	25.158	DCBP	58425	B	6546	4e-15	0.0100
			396626		68097		0.0950

9513355.1243

Chromatogram

Sample Name : ICV*INDBL*1
FileName : C:\TC4\HP58909\557A015.RAW
Method :
Start Time : 4.40 min End Time : 26.71 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/10/94 10:49 AM
Time of Injection: 5/4/94 02:50 AM
Low Point : 18.11 mV High Point : 28.98 mV
Plot Scale: 10.9 mV



000149

9513355.1244

Software Version: 4.0<1C29>
Sample Name : ICV*INDAM*1 Time : 5/10/94 10:50 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 03:33 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A016.RAW
Result File : C:\TC4\HP58909\557A016.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A016.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A016.RST
Calib Method : C:\TC4\HP58909\557AAM from C:\TC4\HP58909\557A016.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 21

DATA REPORT

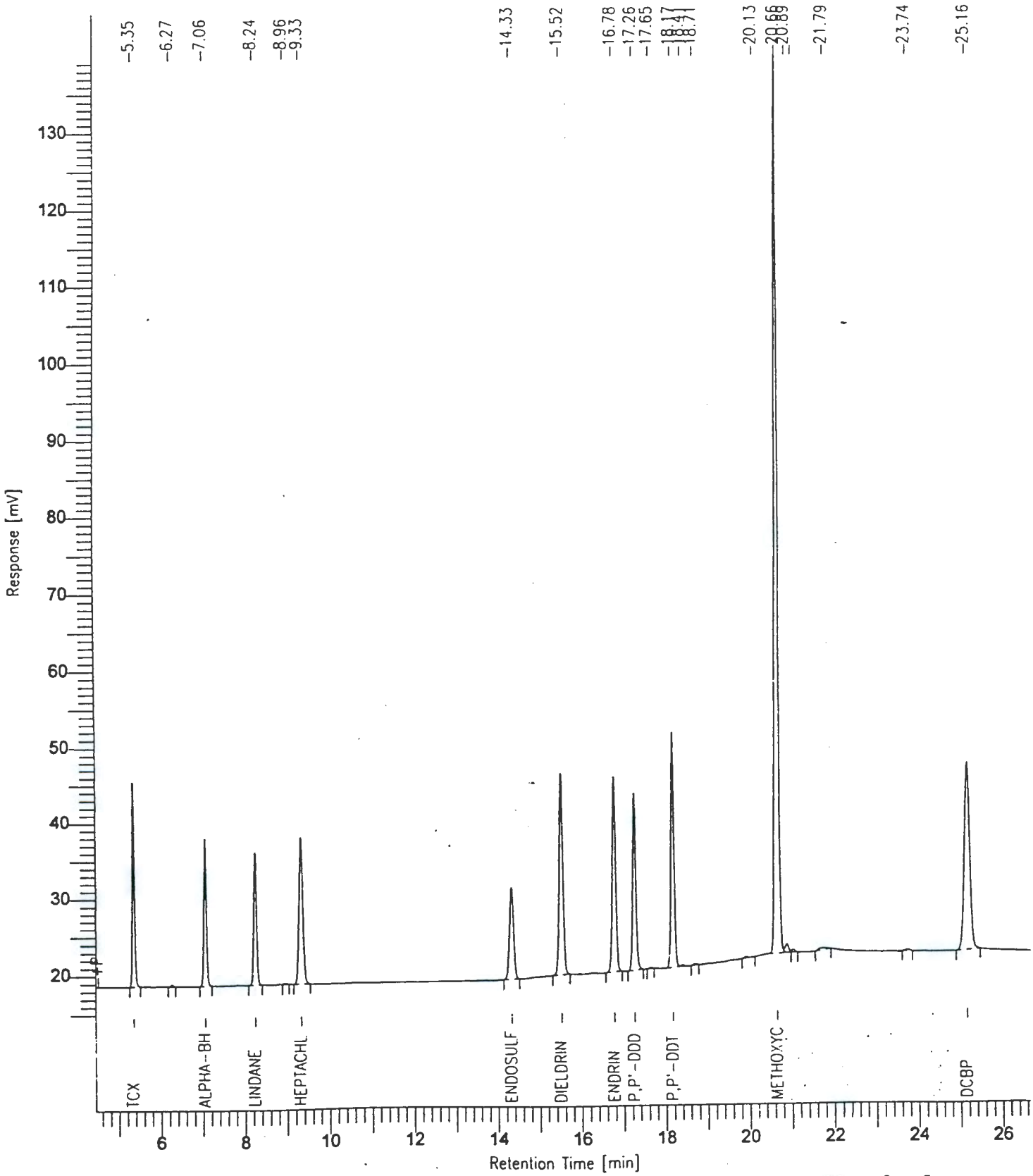
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.353	TCX	93904	B	27114	7e-15	0.0200
3	7.056	ALPHA-BHC	78690	B	19253	3e-15	0.0200
4	8.238	LINDANE	80826	B	17433	7e-15	0.0200
6	9.325	HEPTACHLOR	117825	B	19135	0.0000	0.0200
7	14.327	ENDOSULFAN A	81602	B	11954	-5e-15	0.0200
8	15.517	DIELDRIN	160710	B	26617	-5e-15	0.0400
9	16.779	ENDRIN	143480	B	25890	8e-15	0.0400
10	17.258	P,P'-DDD	119080	B	23268	-4e-15	0.0400
12	18.174	P,P'-DDT	153544	B	30925	-4e-15	0.0400
16	20.664	METHOXYCHLOR	624603	B	120292	-7e-15	0.2000
21	25.157	DCBP	223323	B	24743	9e-16	0.0400

9513355.1245

Chromatogram

Sample Name : ICV*INDAM*1
FileName : C:\TC4\HP58909\557A016.RAW
Method :
Start Time : 4.44 min End Time : 26.66 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 5/10/94 10:50 AM
Time of Injection: 5/4/94 03:33 AM
Low Point : 14.65 mV High Point : 139.34 mV
Plot Scale: 124.7 mV



000151

Software Version: 4.0<1C29>
Sample Name : ICV*INDBM*1 Time : 5/10/94 10:51 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 04:15 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A017.RAW
Result File : C:\TC4\HP58909\557A017.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A017.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A017.RST
Calib Method : C:\TC4\HP58909\557ABM from C:\TC4\HP58909\557A017.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 23

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.353	TCX	92048	B	27114	-6e-15	0.0200
5	8.460	BETA-BHC	54802	B	11755	-3e-15	0.0200
6	9.738	DELTA-BHC	66298	B	13541	-6e-15	0.0200
7	10.525	ALDRIN	81941	B	13030	4e-15	0.0200
8	12.832	HEPTACHLOR EPOXIDE	90648	B	12971	-4e-15	0.0200
9	13.545	GAMMA-CHLORDANE	108566	B	14863	2e-15	0.0200
10	14.247	ALPHA-CHLORDANE	106734	B	15541	2e-15	0.0200
11	15.337	P,P'-DDE	147212	B	25835	4e-15	0.0400
13	17.386	ENDOSULFAN B	144555	B	27592	-3e-15	0.0400
15	18.433	ENDRIN ALDEHYDE	122637	B	23826	8e-15	0.0400
16	18.775	ENDOSULFAN SULFATE	160895	V	32303	9e-15	0.0400
20	20.899	ENDRIN KETONE	153399	V	31006	-2e-15	0.0400

Result File : 557A017.RST, Printed On 5/10/94 10:51 AM

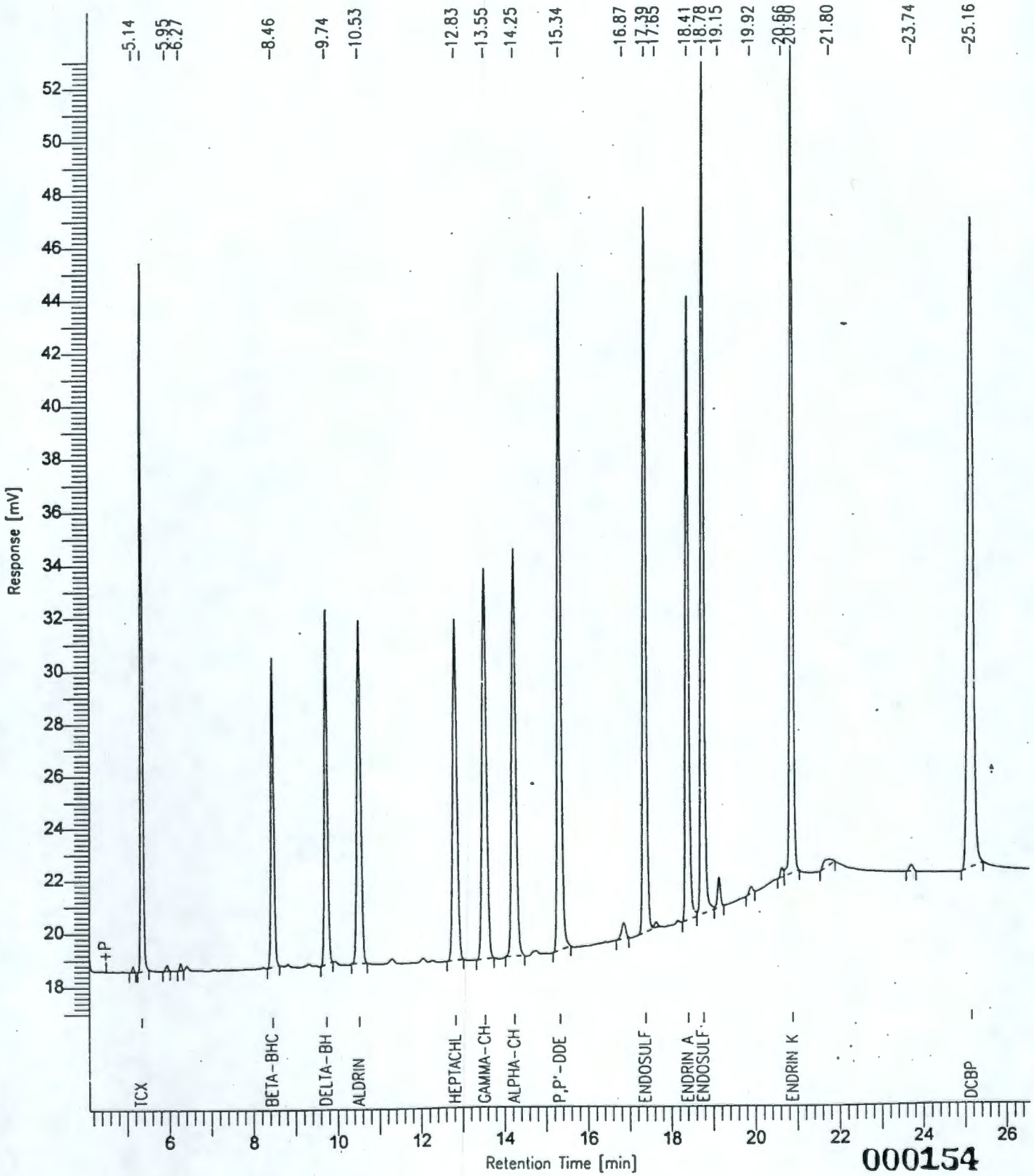
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
23	25.160	DCBP	216484	B	24692	-5e-15	0.0400
			1546219		274068		0.3800

9513355.1248

Chromatogram

Sample Name : ICV*INDBM*1
FileName : C:\TC4\HP58909\557A017.RAW
Method :
Start Time : 4.11 min End Time : 26.57 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/10/94 10:51 AM
Time of Injection: 5/4/94 04:15 AM
Low Point : 16.89 mV High Point : 53.10 mV
Plot Scale: 36.2 mV



000154

9513355.1249

Software Version: 4.0<1C29>
Sample Name : ICV*INDAH*1 Time : 5/10/94 10:52 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 04:57 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A018.RAW
Result File : C:\TC4\HP58909\557A018.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A018.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A018.RST
Calib Method : C:\TC4\HP58909\557AAH from C:\TC4\HP58909\557A018.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 26

DATA REPORT

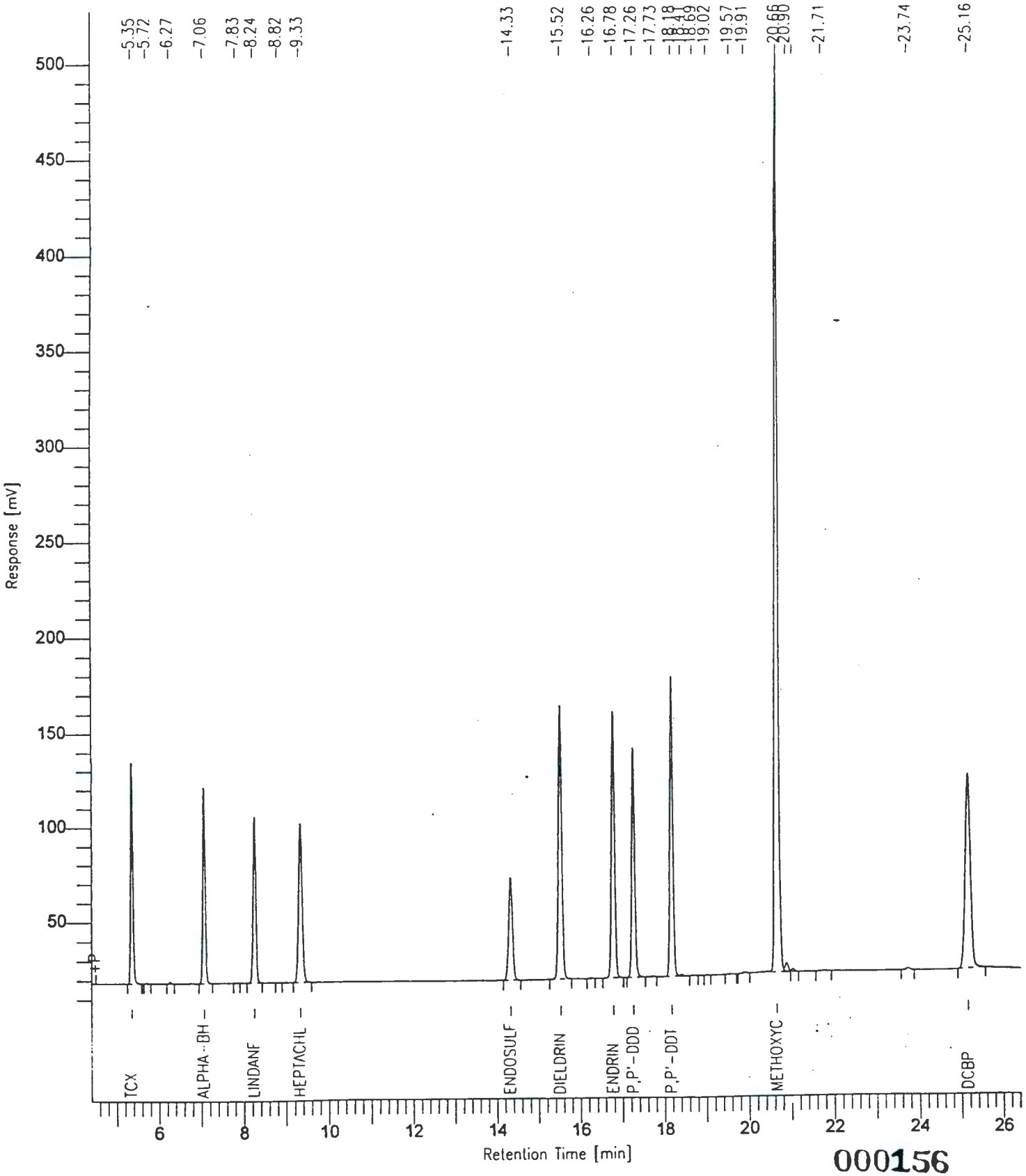
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.354	TCX	416956	B	117581	-4e-15	0.0800
4	7.060	ALPHA-BHC	394422	B	102844	5e-15	0.0800
6	8.241	LINDANE	386278	B	86954	-3e-15	0.0800
8	9.329	HEPTACHLOR	485110	B	83645	3e-15	0.0800
9	14.329	ENDOSULFAN A	337411	B	53750	-4e-15	0.0800
10	15.522	DIELDRIN	814658	B	144786	-8e-16	0.1600
12	16.784	ENDRIN	728584	B	140540	0.0000	0.1600
13	17.261	P,P'-DDD	590820	B	121384	8e-15	0.1600
15	18.179	P,P'-DDT	767228	B	158736	9e-15	0.1600
21	20.664	METHOXYCHLOR	2535818	B	484074	-3e-15	0.8000
26	25.164	DCBP	888076	B	103314	5e-15	0.1600

9513355.1250

Chromatogram

Sample Name : ICV*INDAH*1
FileName : C:\TC4\HP58909\557A018.RAW
Method :
Start Time : 4.40 min End Time : 26.42 min
Scale Factor: 0.0 Plot Offset: 6 mV

Sample #:
Date : 5/10/94 10:52 AM
Time of Injection: 5/4/94 04:57 AM
Low Point : 5.61 mV High Point : 502.99 mV
Plot Scale: 497.4 mV



000156

9513355.1251

Software Version: 4.0<1C29>
Sample Name : ICV*INDBH*1 Time : 5/10/94 10:53 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 05:40 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A019.RAW
Result File : C:\TC4\HP58909\557A019.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A019.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A019.RST
Calib Method : C:\TC4\HP58909\557ABH from C:\TC4\HP58909\557A019.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 30

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.354	TCX	418747	B	117534	-4e-15	0.0800
6	8.460	BETA-BHC	233806	B	49712	-1e-14	0.0800
9	9.738	DELTA-BHC	319372	B	67851	5e-15	0.0800
10	10.526	ALDRIN	394150	B	65253	-3e-15	0.0800
14	12.832	HEPTACHLOR EPOXIDE	387012	B	57720	-4e-15	0.0800
15	13.543	GAMMA-CHLORDANE	448102	B	62654	2e-15	0.0800
16	14.247	ALPHA-CHLORDANE	461066	B	67951	0.0000	0.0800
18	15.339	P,P'-DDE	793062	B	146414	-2e-15	0.1600
20	17.386	ENDOSULFAN B	655451	B	126911	-3e-15	0.1600
22	18.413	ENDRIN ALDEHYDE	502572	B	99308	3e-15	0.1600
23	18.777	ENDOSULFAN SULFATE	730811	B	145739	-5e-15	0.1600
27	20.900	ENDRIN KETONE	721417	V	145136	2e-15	0.1600

9513355.1252

Result File : 557A019.RST, Printed On 5/10/94 10:53 AM

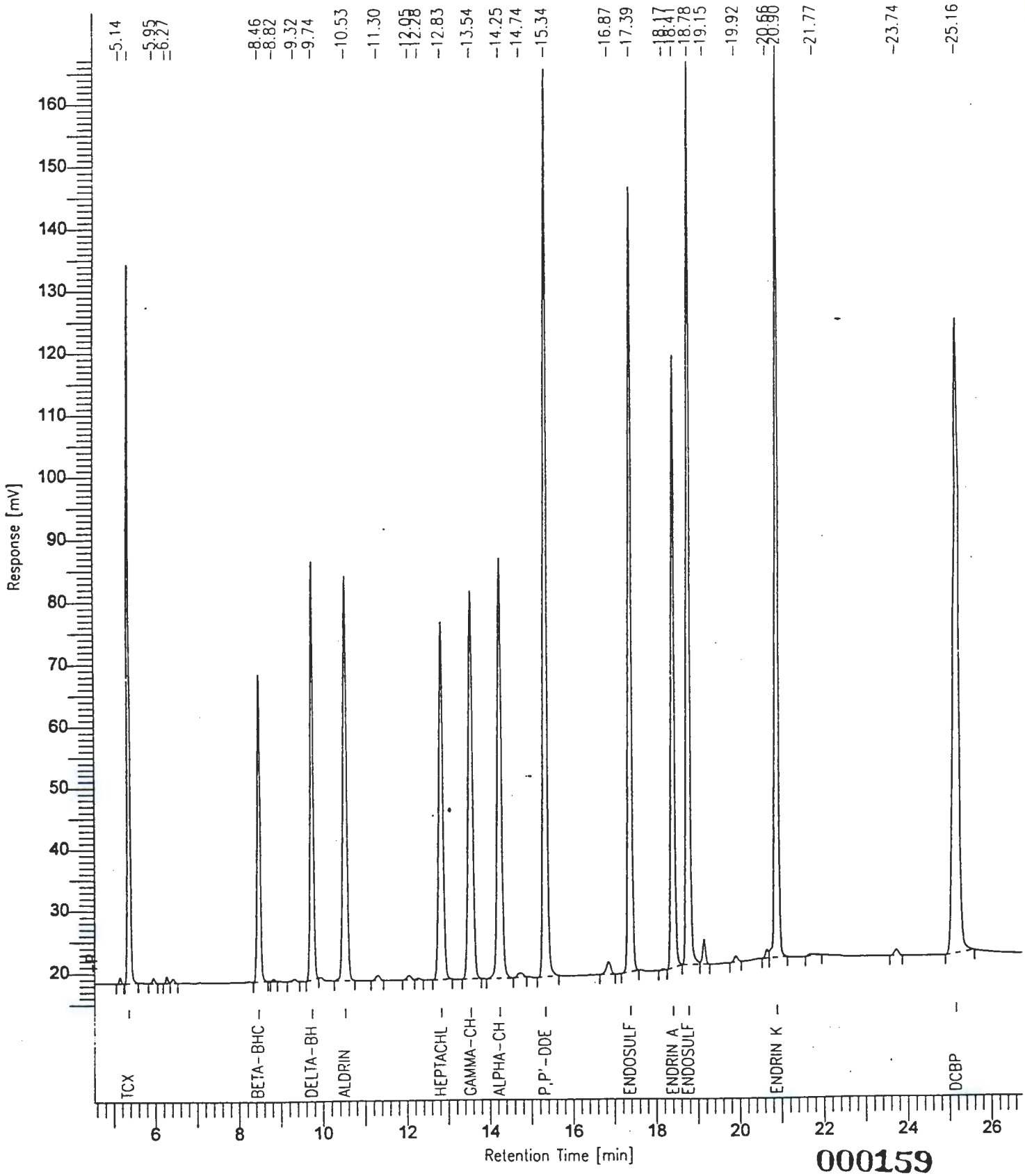
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
30	25.163	DCBP	898788	B	102429	7e-15	0.1600
			6964357		1254611		1.5200

9513355.1253

Chromatogram

Sample Name : ICV*INDBH*1
FileName : C:\TC4\HP58909\557A019.RAW
Method :
Start Time : 4.53 min End Time : 26.76 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #:
Date : 5/10/94 10:53 AM
Time of Injection: 5/4/94 05:40 AM
Low Point : 14.37 mV High Point : 167.10 mV
Plot Scale: 152.7 mV



000159

9513355.1254

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*1 Time : 5/10/94 12:17 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 06:22 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A020.RAW
Result File : C:\TC4\HP58909\557A020.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A020.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A020.RST
Calib Method : C:\TC4\HP58909\557A from C:\TC4\HP58909\557A020.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5963.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 24

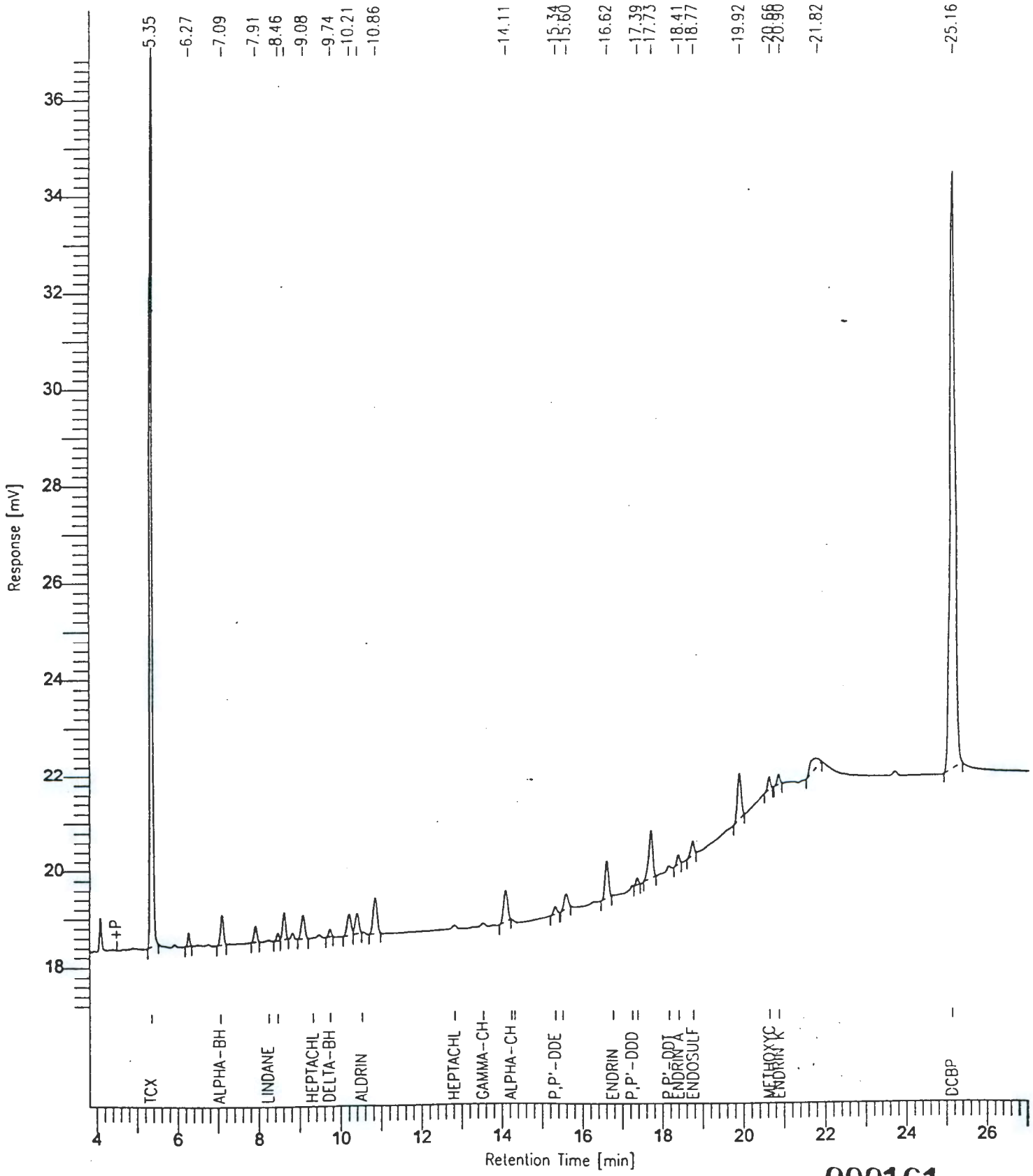
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.353	TCX	90281	B	26653	-0.0003
17	17.730		7074	B	1002	-------
20	19.919		6250	B	986	-------
24	25.162	DCBP	108506	B	12390	0.0171
			212111		41031	

9513355.1255 Chromatogram

Sample Name : MB*PIBLK*1
FileName : C:\TC4\HP58909\557A020.RAW
Method :
Start Time : 3.83 min End Time : 27.04 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/10/94 12:16 PM
Time of Injection: 5/4/94 06:22 AM
Low Point : 17.06 mV High Point : 36.88 mV
Plot Scale: 19.8 mV



9513355.1256

Software Version: 4.0<1C29>
Sample Name : CK*PEM*2 Time : 5/10/94 12:20 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 07:04 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A021.RAW
Result File : C:\TC4\HP58909\557A021.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A021.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A021.RST
Calib Method : C:\TC4\HP58909\557APEM from C:\TC4\HP58909\557A021.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 18

DATA REPORT

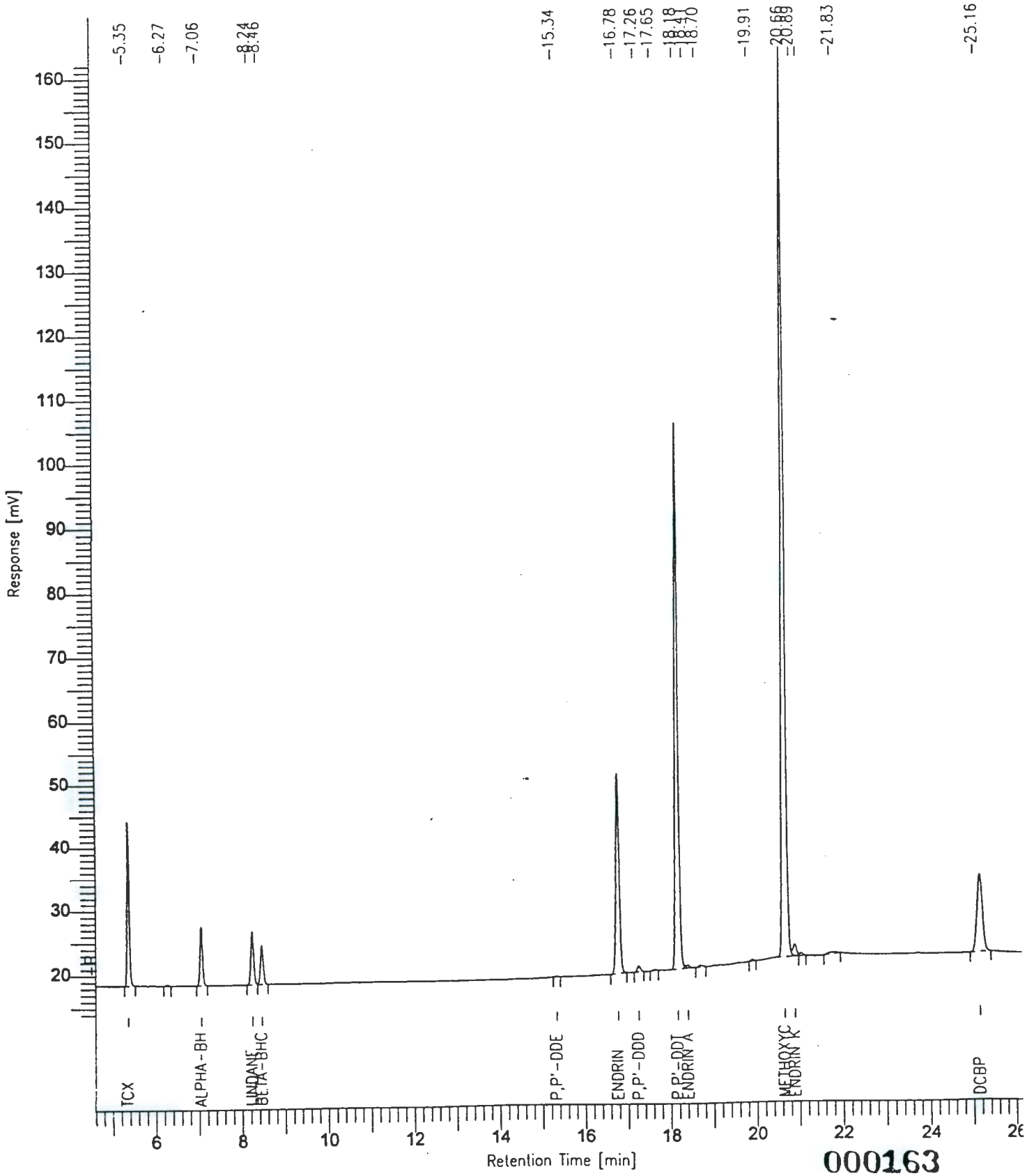
Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)
1	5.354	TCX	88592	B	26049	0.0102
3	7.057	ALPHA-BHC	37035	B	9128	0.0107
4	8.237	LINDANE	37877	B	8218	-0.0062
5	8.460	BETA-BHC	28058	V	6026	0.0014
6	15.337	P,P'-DDE	784	B	159	-0.0013
7	16.781	ENDRIN	167528	B	31476	0.0107
8	17.262	P,P'-DDD	4848	B	931	0.0206
10	18.178	P,P'-DDT	417625	B	85803	0.0232
11	18.408	ENDRIN ALDEHYDE	2856	E	466	-0.0293
14	20.664	METHOXYCHLOR	725531	B	141271	-0.0024
15	20.894	ENDRIN KETONE	10894	E	1891	-0.0254
18	25.159	DCBP	107595	B	12175	0.0030

9513355.1257

Chromatogram

Sample Name : CK*PEM*2
FileName : C:\TC4\HP58909\557A021.RAW
Method :
Start Time : 4.58 min End Time : 26.23 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #:
Date : 5/10/94 12:20 PM
Time of Injection: 5/4/94 07:04 AM
Low Point : 13.80 mV High Point : 162.41 mV
Plot Scale: 148.6 mV



000163

9513355.1258

Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 5/10/94 12:29 PM
Sample Number:
Study :
Operator : VIC

Instrument : HP58909
Channel : A
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 5/4/94 12:00 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A028.RAW
Result File : C:\TC4\HP58909\557A028.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A028.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A028.RST
Calib Method : C:\TC4\HP58909\557A from C:\TC4\HP58909\557A028.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul
Area Reject : 5963.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 15
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 3

DATA REPORT

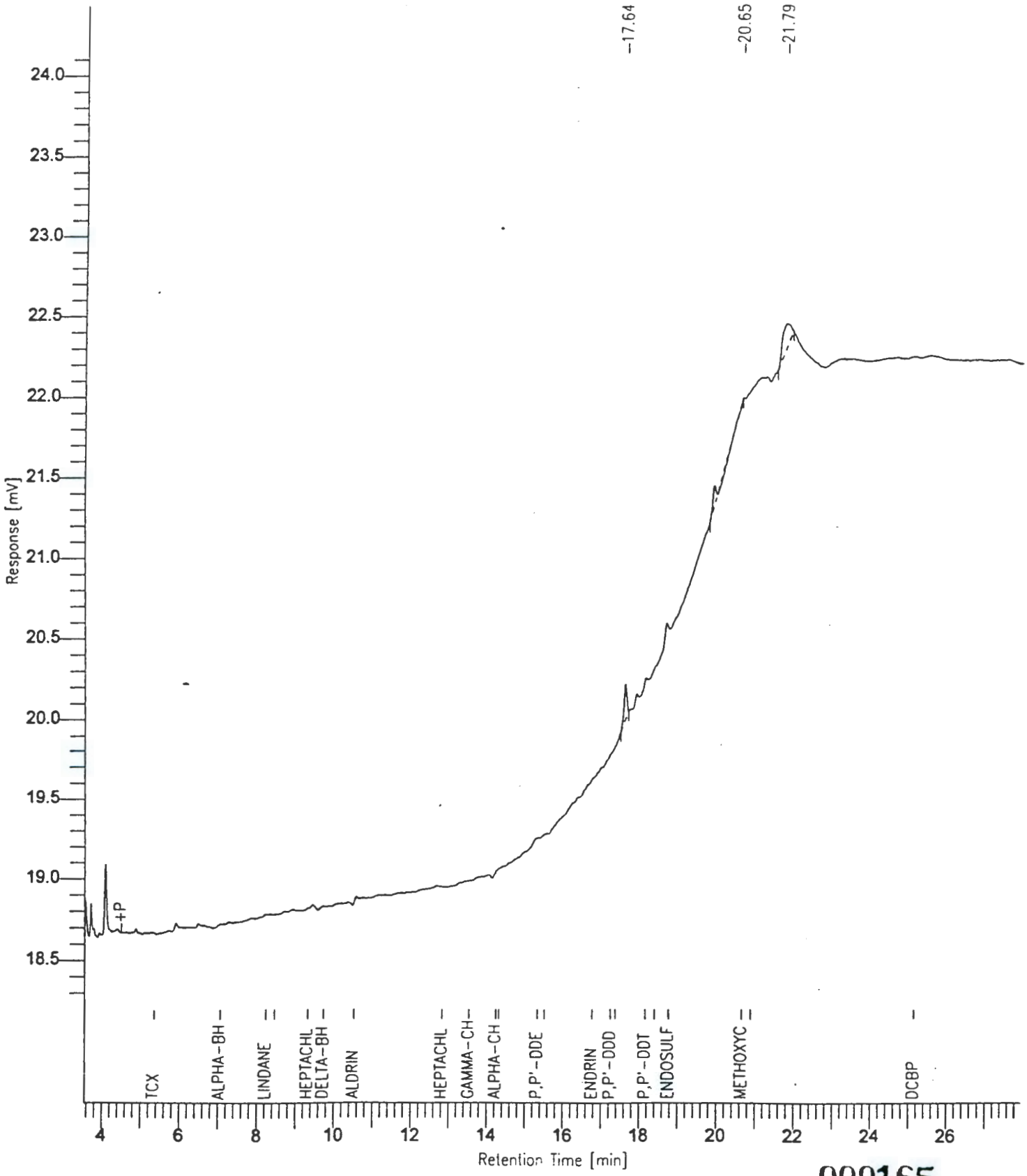
No peaks available to report

9513355.1259

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\557A028.RAW
Method :
Start Time : 3.55 min End Time : 27.99 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/10/94 12:29 PM
Time of Injection: 5/4/94 12:00 PM
Low Point : 18.20 mV High Point : 24.14 mV
Plot Scale: 5.9 mV



Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*2 Time : 5/10/94 12:30 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 12:43 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A029.RAW
Result File : C:\TC4\HP58909\557A029.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A029.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A029.RST
Calib Method : C:\TC4\HP58909\557A from C:\TC4\HP58909\557A029.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5963.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 6

DATA REPORT

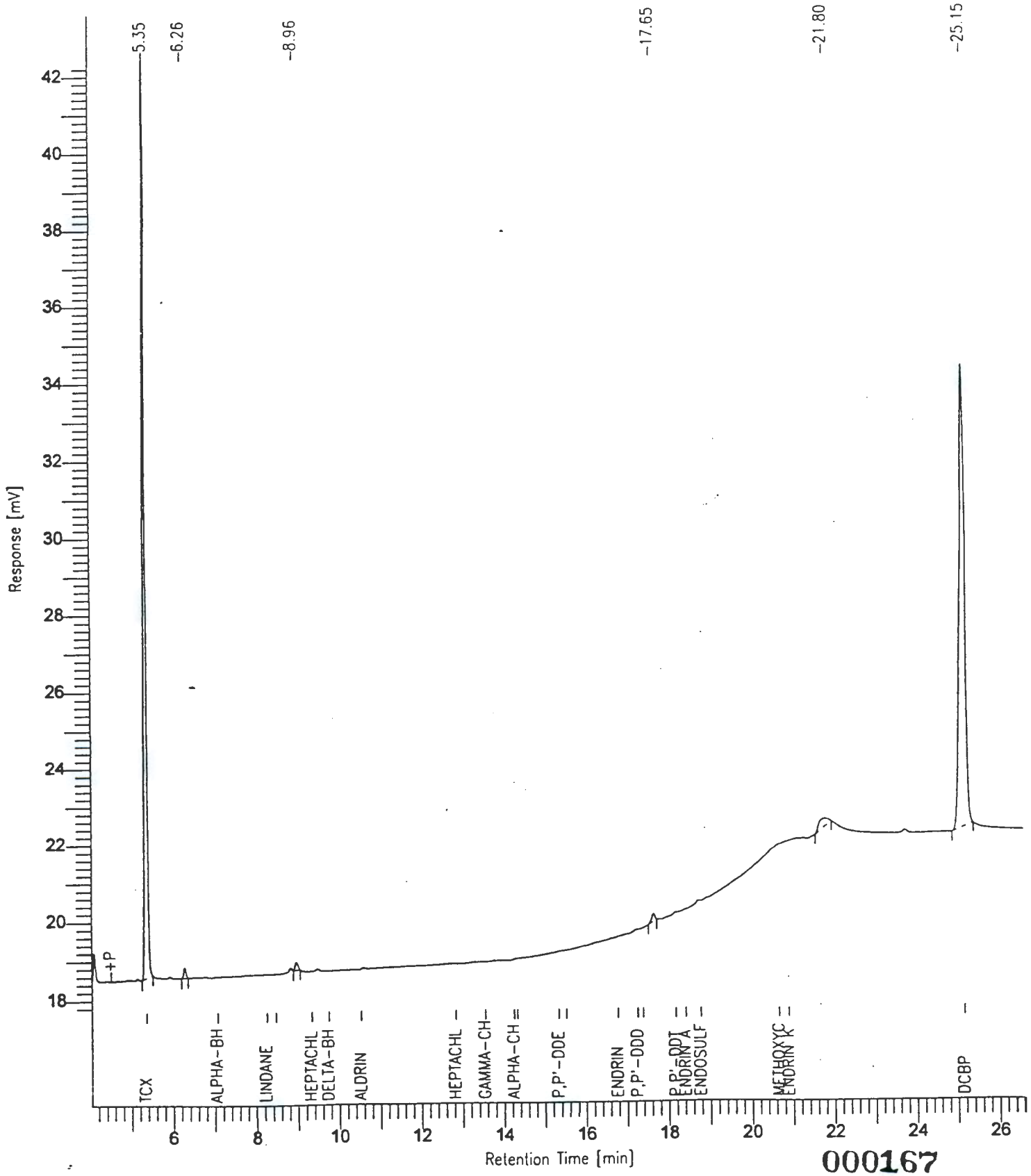
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.352	TCX	89741	B	25994	-0.0273
6	25.152	DCBP	108077	B	11989	-0.0251
			197818		37983	

9513355.1261

Chromatogram

Sample Name : MB*PIBLK*2
FileName : C:\TC4\HP58909\557A029.RAW
Method :
Start Time : 4.03 min End Time : 26.60 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/10/94 12:30 PM
Time of Injection: 5/4/94 12:43 PM
Low Point : 17.70 mV High Point : 42.39 mV
Plot Scale: 24.7 mV



Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*2 Time : 5/10/94 12:46 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 01:25 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A030.RAW
Result File : C:\TC4\HP58909\GEDIT.RST
Inst Method : HP58909 from C:\TC4\HP58909\GEDIT.RST
Proc Method : C:\TC4\HP58909\557AAM.MTH
Calib Method : C:\TC4\HP58909\557AAM.MTH
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 20

DATA REPORT

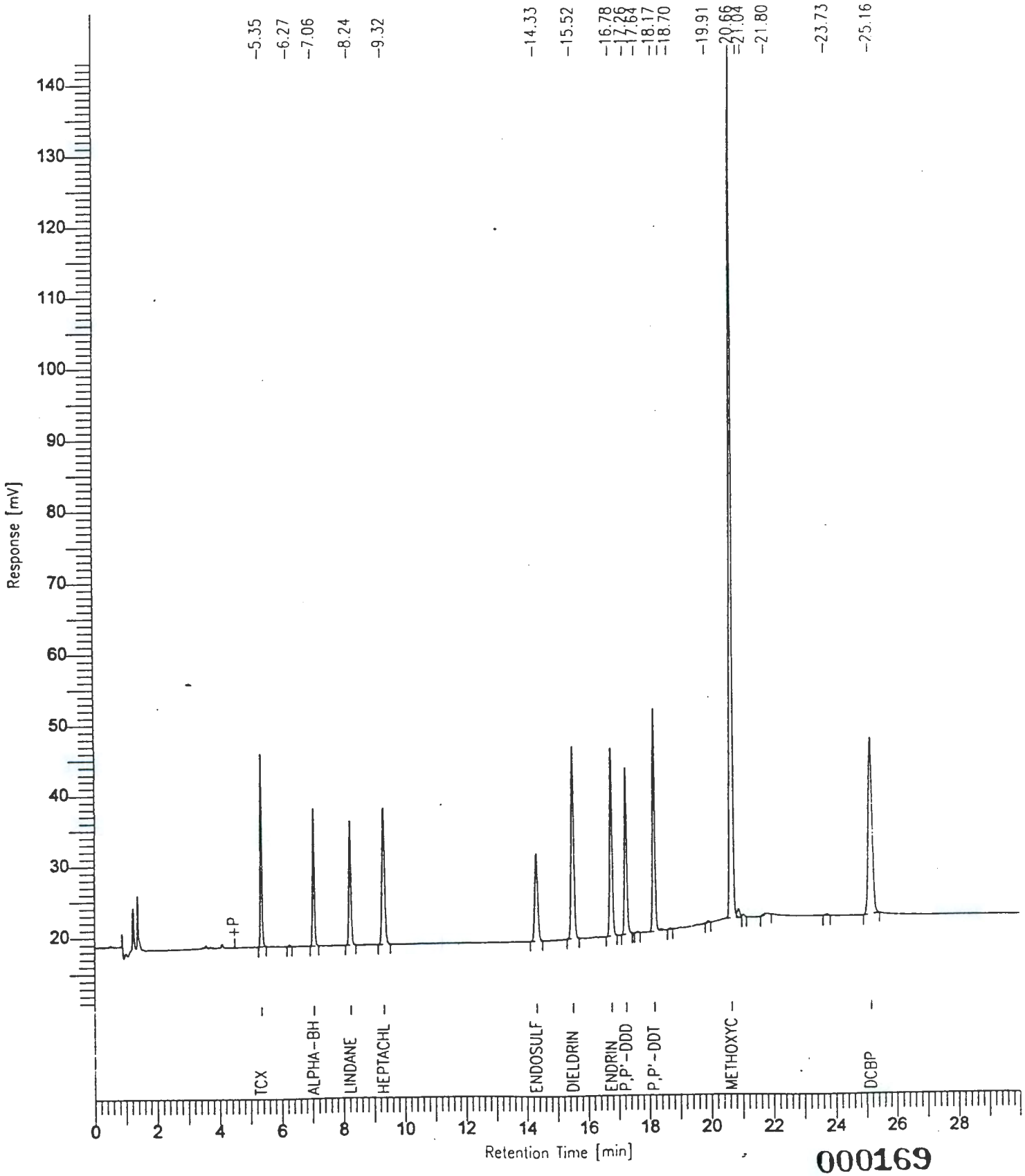
Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
1	5.353	TCX	93978	B	27538	3e-15	0.0200
3	7.056	ALPHA-BHC	78459	B	19477	4e-15	0.0200
4	8.237	LINDANE	81028	B	17621	0.0000	0.0200
5	9.324	HEPTACHLOR	117292	B	19249	-4e-15	0.0200
6	14.326	ENDOSULFAN A	82136	B	12311	-8e-16	0.0200
7	15.516	DIELDRIN	161038	B	27168	-8e-16	0.0400
8	16.778	ENDRIN	143437	B	26715	-1e-15	0.0400
9	17.257	P,P'-DDD	118846	B	23544	-1e-14	0.0400
11	18.174	P,P'-DDT	152962	B	31500	-9e-15	0.0400
15	20.662	METHOXYCHLOR	621590	B	122352	1e-15	0.2000
20	25.156	DCBP	221072	B	25033	7e-15	0.0400

9513355.1265

Chromatogram

Sample Name : CCS*INDAM*2
FileName : C:\TC4\HP58909\557A030.RAW
Method : 557AAM.MTH
Start Time : 0.00 min End Time : 30.00 min
Scale Factor: 0.0 Plot Offset: 11 mV

Sample #:
Date : 5/10/94 12:45 PM
Time of Injection: 5/4/94 01:25 PM
Low Point : 10.53 mV High Point : 143.53 mV
Plot Scale: 133.0 mV



000169

Software Version: 4.0<1C29>
Sample Name : CCS*INDBM*2 Time : 5/10/94 12:53 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 02:08 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A031.RAW
Result File : C:\TC4\HP58909\GEDIT.RST
Inst Method : HP58909 from C:\TC4\HP58909\GEDIT.RST
Proc Method : C:\TC4\HP58909\557ABM.MTH
Calib Method : C:\TC4\HP58909\557ABM.MTH
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 23

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.353	TCX	94353	B	27705	-3e-15	0.0200
5	8.459	BETA-BHC	56278	B	12073	3e-15	0.0200
6	9.737	DELTA-BHC	67995	B	13880	2e-15	0.0200
7	10.522	ALDRIN	84160	B	13319	0.0000	0.0200
8	12.829	HEPTACHLOR EPOXIDE	93266	B	13285	-3e-15	0.0200
9	13.543	GAMMA-CHLORDANE	111592	B	15106	-6e-15	0.0200
10	14.245	ALPHA-CHLORDANE	110128	B	15966	2e-15	0.0200
11	15.335	P,P'-DDE	151927	B	26774	-2e-15	0.0400
13	17.384	ENDOSULFAN B	149015	B	28034	1e-14	0.0400
15	18.411	ENDRIN ALDEHYDE	126201	B	24280	4e-15	0.0400
16	18.773	ENDOSULFAN SULFATE	166284	V	33157	5e-15	0.0400
20	20.898	ENDRIN KETONE	159477	V	32274	6e-15	0.0400

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
23	25.158	DCBP	222261	B	25233	-5e-15	0.0400
			1592937		281086		0.3800

9513355.1266

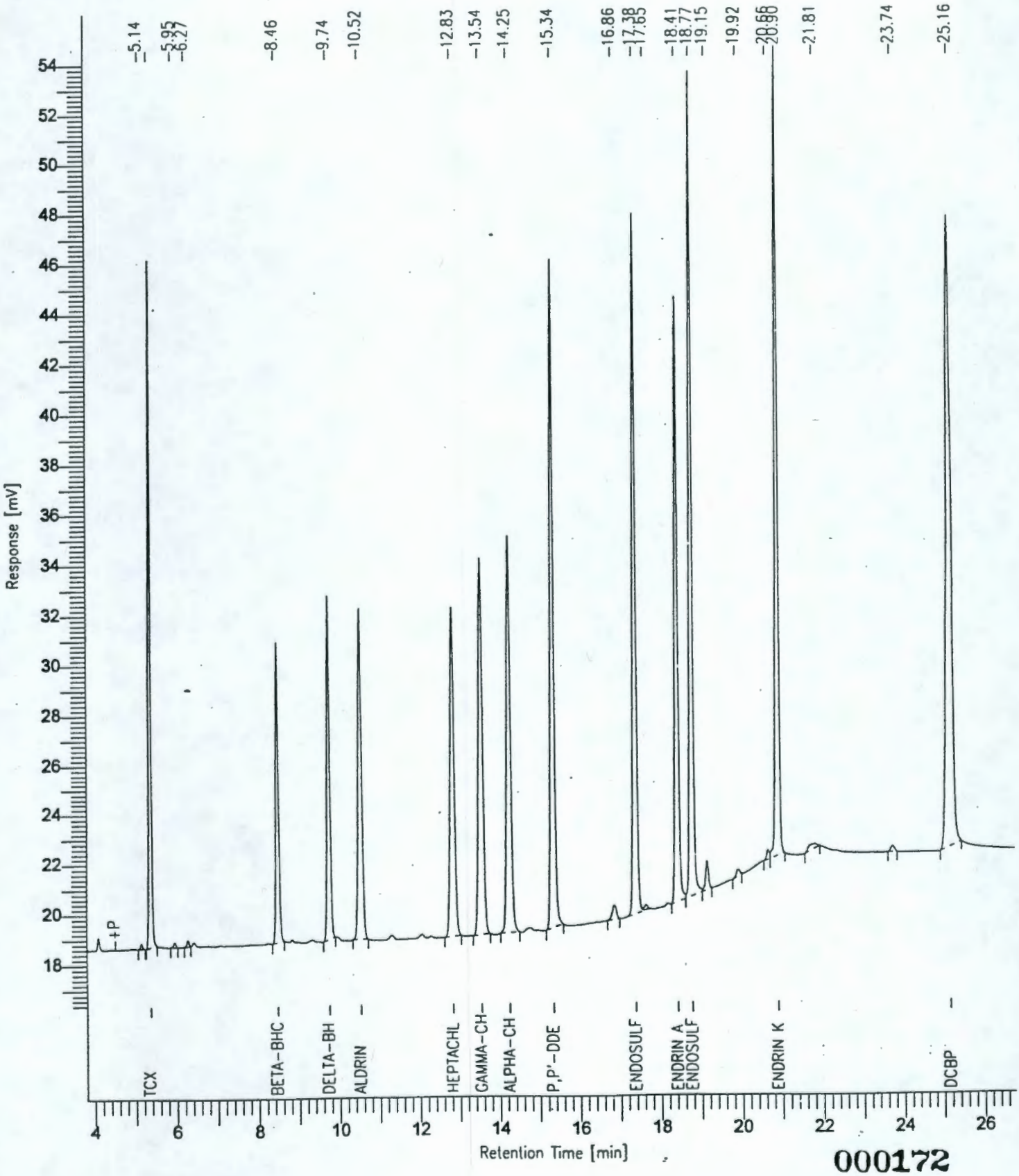
Chromatogram

Sample Name : CCS*INDBM*2
FileName : C:\TC4\HP58909\557A031.RAW
Method : 557ABM.MTH
Start Time : 3.81 min
Scale Factor: 0.0

End Time : 26.77 min
Plot Offset: 16 mV

Sample #:
Date : 5/10/94 12:53 PM
Time of Injection: 5/4/94 02:08 PM
Low Point : 16.37 mV
Plot Scale: 37.8 mV

High Point : 54.18 mV



000172

Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 5/11/94 01:44 PM
Sample Number:
Study :
Operator : VIC

Instrument : HP58909
Channel : A
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 5/4/94 07:04 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A038.RAW
Result File : C:\TC4\HP58909\557A038.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A038.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A038.RST
Calib Method : C:\TC4\HP58909\557A from C:\TC4\HP58909\557A038.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul
Area Reject : 5963.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 15
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 3

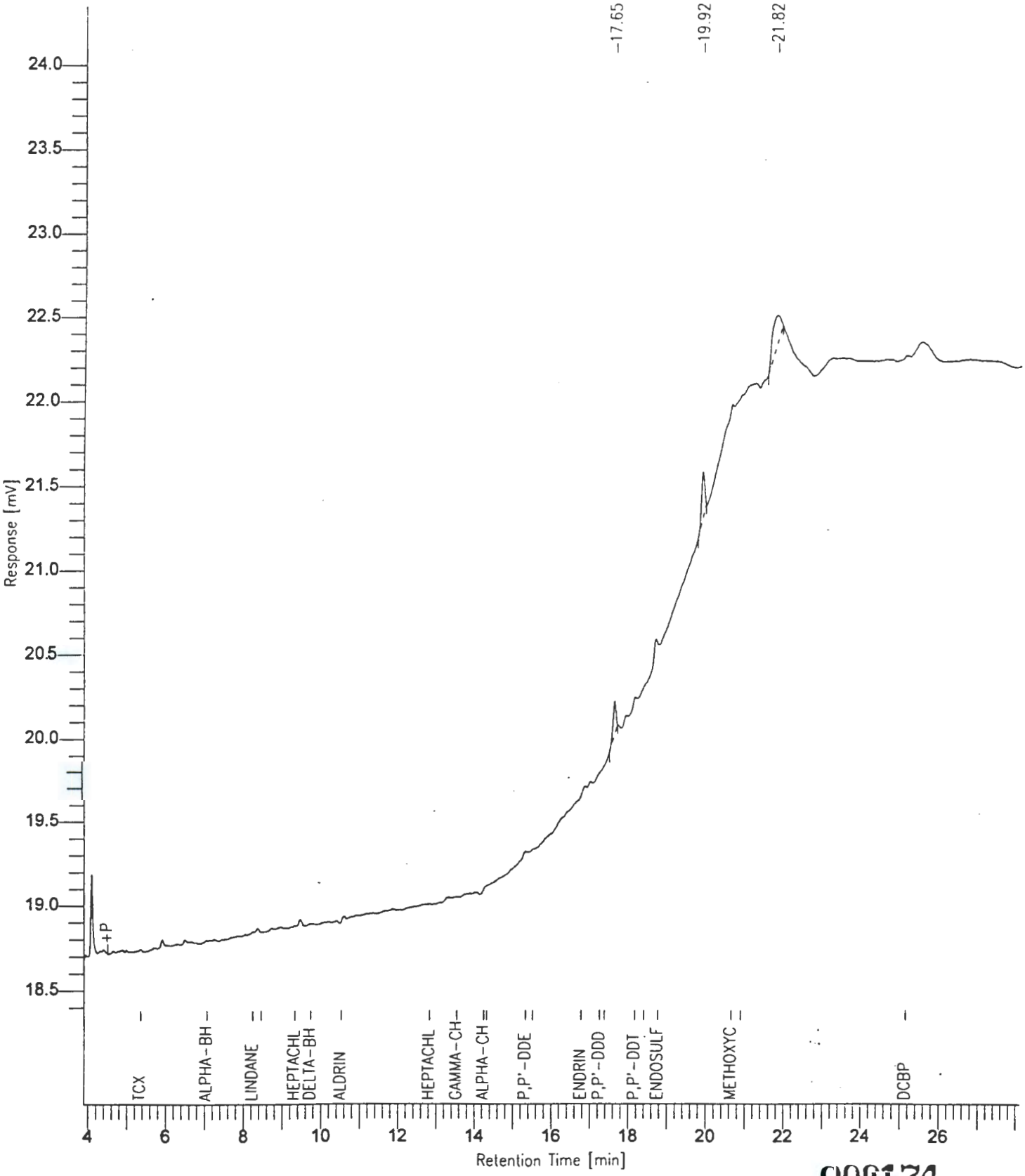
DATA REPORT

No peaks available to report

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\557A038.RAW
Method :
Start Time : 3.89 min End Time : 28.13 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/11/94 01:44 PM
Time of Injection: 5/4/94 07:04 PM
Low Point : 18.38 mV High Point : 24.07 mV
Plot Scale: 5.7 mV



Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 5/11/94 01:45 PM
Sample Number:
Study :
Operator : VIC

Instrument : HP58909
Channel : A
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 5/4/94 08:28 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A040.RAW
Result File : C:\TC4\HP58909\557A040.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A040.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A040.RST
Calib Method : C:\TC4\HP58909\557A from C:\TC4\HP58909\557A040.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul
Area Reject : 5963.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 15
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 10

DATA REPORT

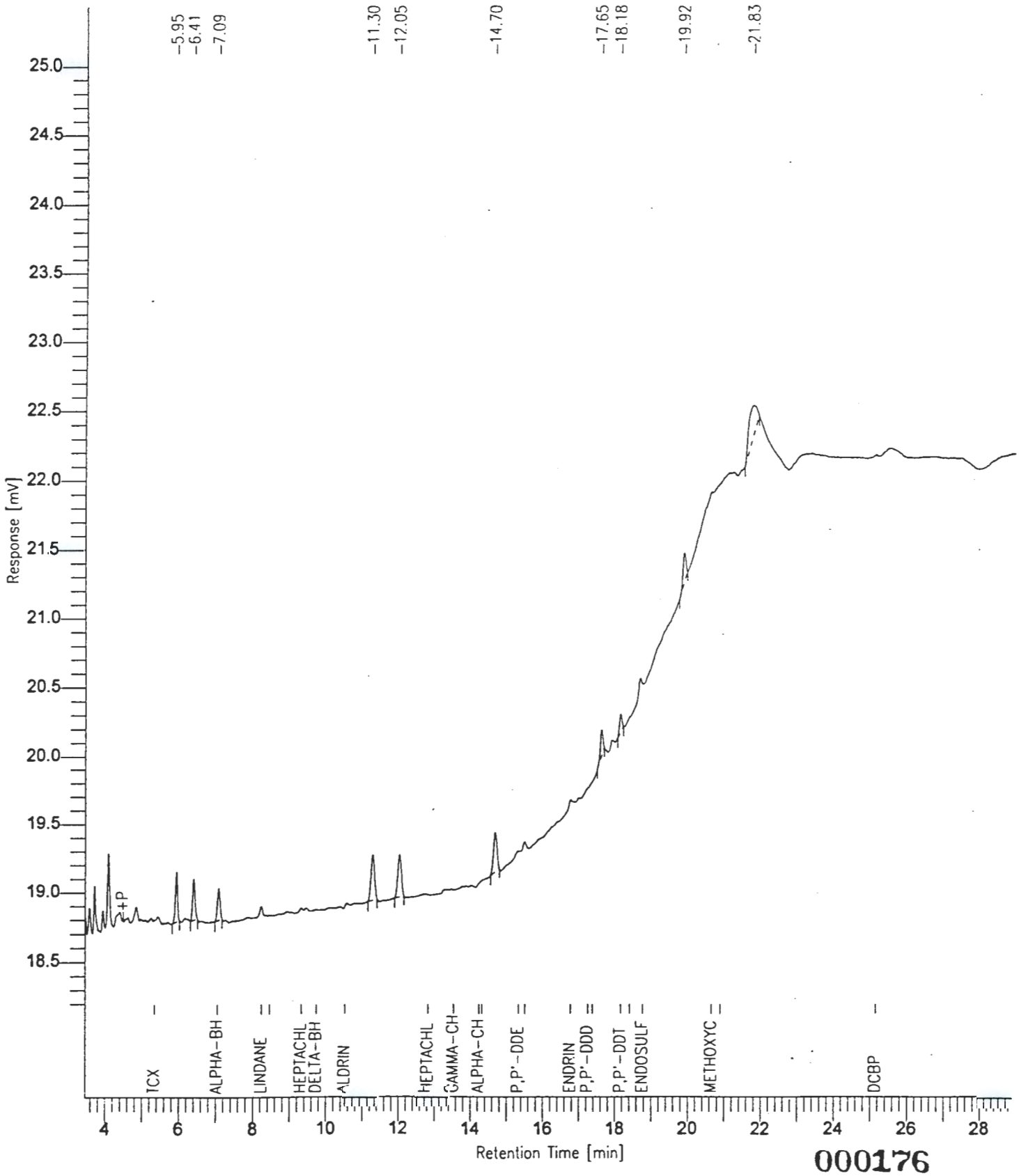
No peaks available to report

9513355.1270

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\557A040.RAW
Method :
Start Time : 3.46 min End Time : 28.99 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/11/94 01:45 PM
Time of Injection: 5/4/94 08:28 PM
Low Point : 18.20 mV High Point : 25.09 mV
Plot Scale: 6.9 mV



000176

Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 5/10/94 12:32 PM
Sample Number:
Study :
Operator : VIC

Instrument : HP58909
Channel : A
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 5/4/94 09:54 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A042.RAW
Result File : C:\TC4\HP58909\557A042.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A042.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A042.RST
Calib Method : C:\TC4\HP58909\557A from C:\TC4\HP58909\557A042.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul
Area Reject : 5963.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 15
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 11

DATA REPORT

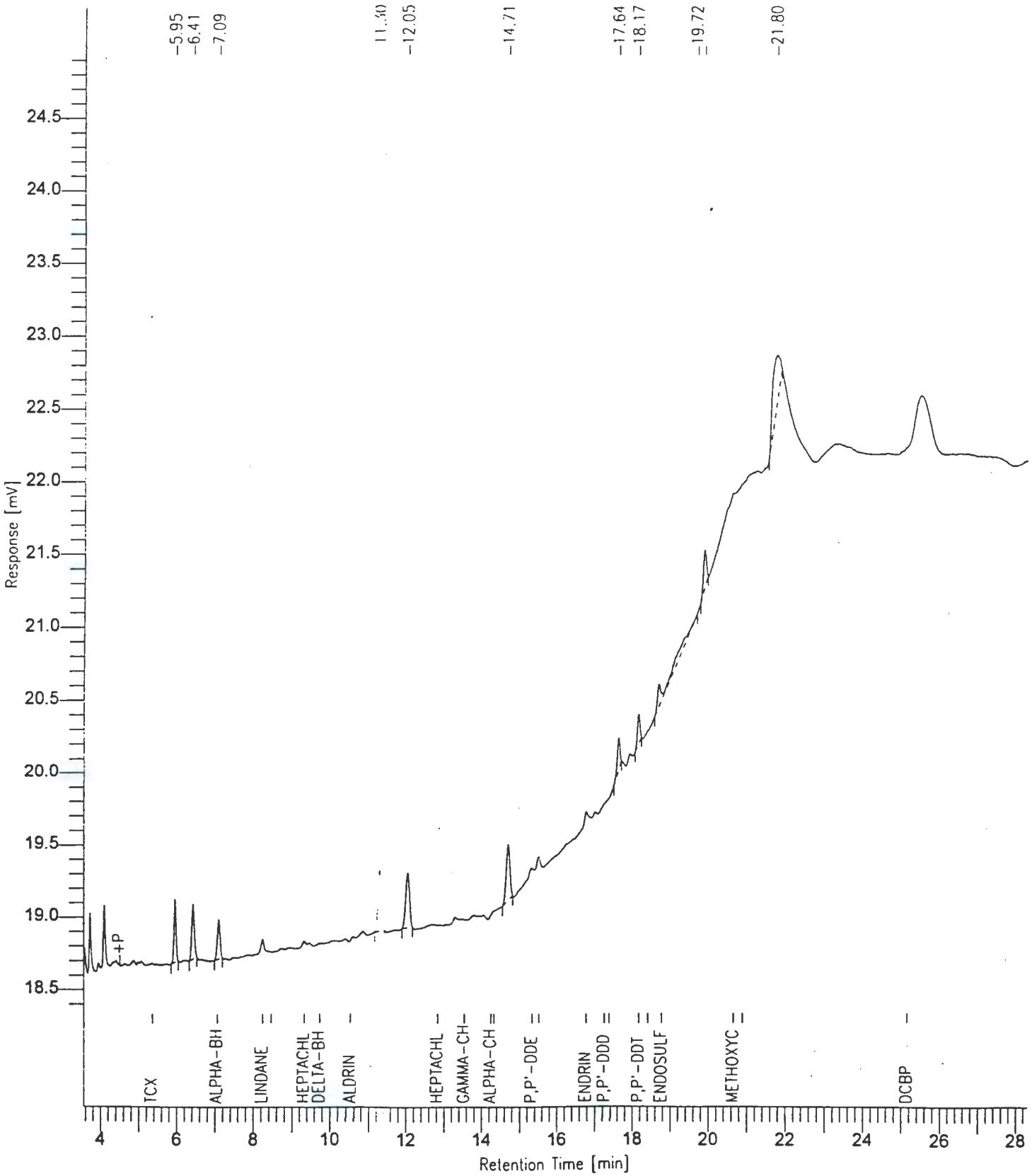
No peaks available to report

9513355.1272

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\557A042.RAW
Method :
Start Time : 3.55 min End Time : 28.33 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/10/94 12:32 PM
Time of Injection: 5/4/94 09:54 PM
Low Point : 18.34 mV High Point : 24.93 mV
Plot Scale: 6.6 mV



000178

9513355.1273

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*3 Time : 5/10/94 12:32 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 10:36 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A043.RAW
Result File : C:\TC4\HP58909\557A043.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A043.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A043.RST
Calib Method : C:\TC4\HP58909\557A from C:\TC4\HP58909\557A043.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5963.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 5

DATA REPORT

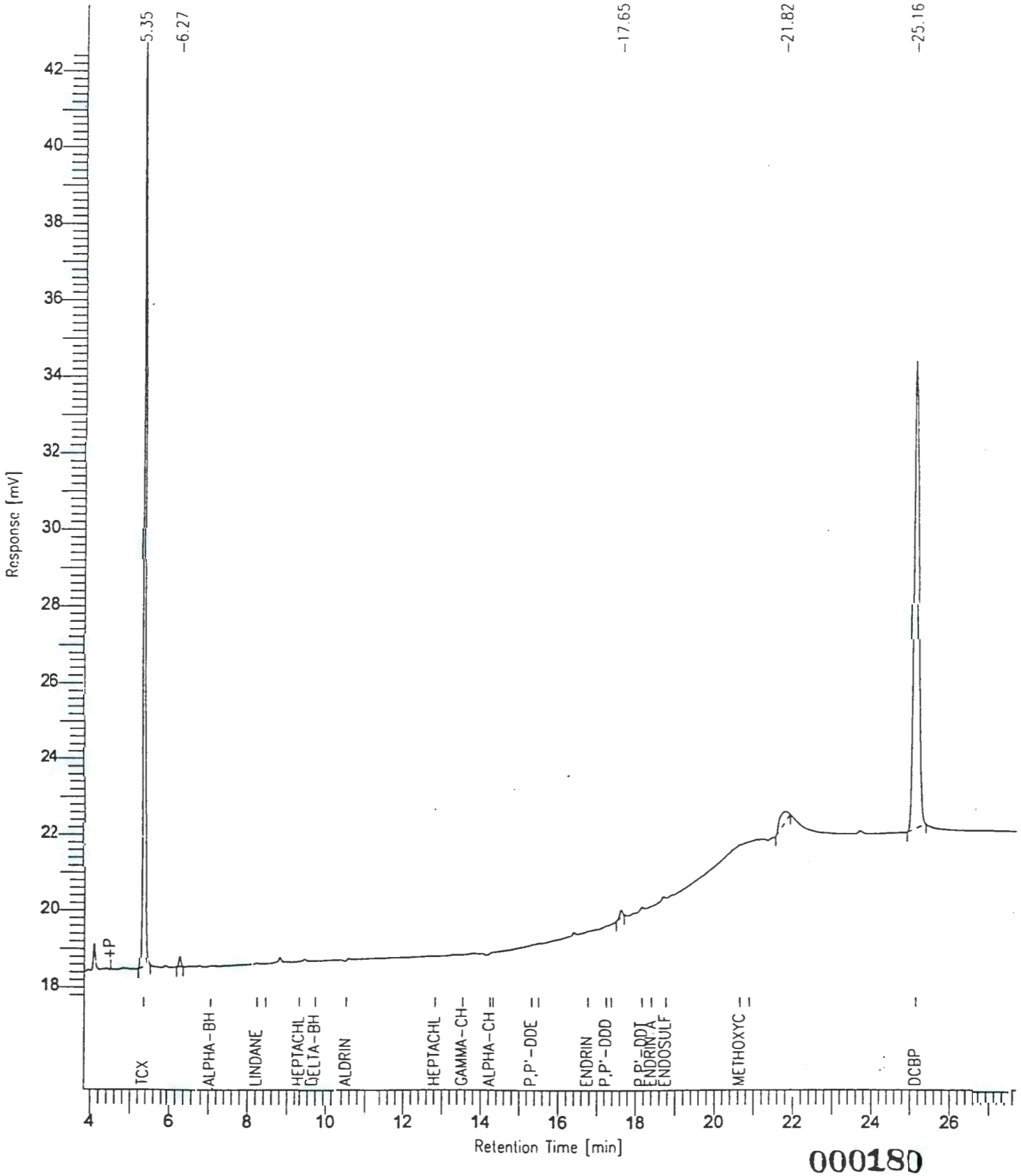
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.352	TCX	89133	B	26332	-0.0162
5	25.155	DCBP	106234	B	12231	-0.0123
			195366		38563	

9513355.1274

Chromatogram

Sample Name : MB*PIBLK*3
FileName : C:\TC4\HP58909\557A043.RAW
Method :
Start Time : 3.84 min End Time : 27.70 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/10/94 12:32 PM
Time of Injection: 5/4/94 10:36 PM
Low Point : 17.75 mV High Point : 42.49 mV
Plot Scale: 24.7 mV



000180

9513355.1275

Software Version: 4.0<1C29>
Sample Name : CK*PEM*3 Time : 5/10/94 12:37 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 11:18 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A044.RAW
Result File : C:\TC4\HP58909\557A044.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A044.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A044.RST
Calib Method : C:\TC4\HP58909\557APEM from C:\TC4\HP58909\557A044.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 17

DATA REPORT

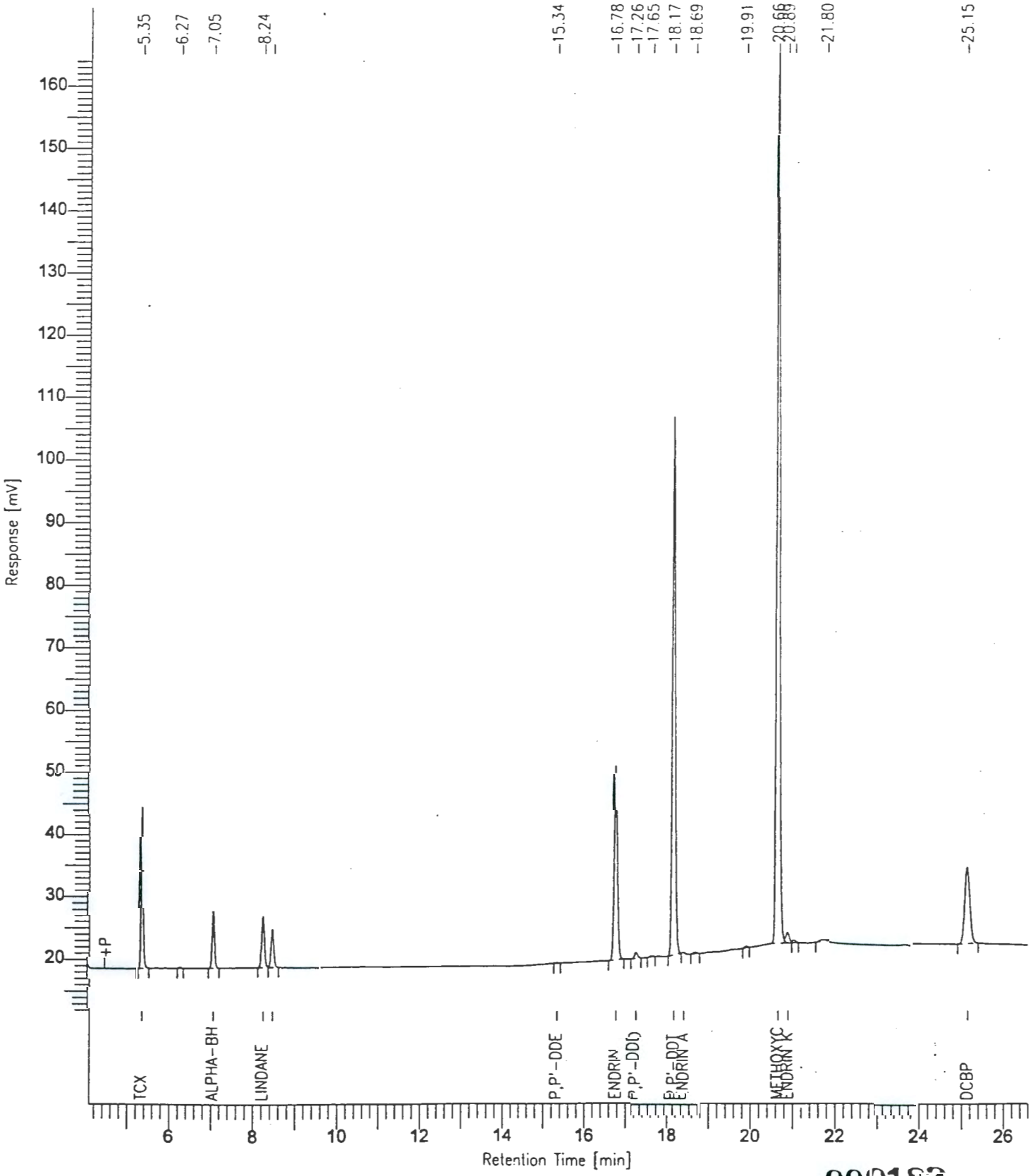
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.352	TCX	88163	B	25925	-0.0120
3	7.054	ALPHA-BHC	36747	B	9101	-0.0217
4	8.235	LINDANE	37576	B	8158	-0.0307
5	8.457	BETA-BHC	27809	V	5984	-0.0326
7	16.777	ENDRIN	165857	B	31335	-0.0133
8	17.258	P,P'-DDD	5096	B	964	0.0024
10	18.174	P,P'-DDT	411235	B	86206	0.0023
13	20.660	METHOXYCHLOR	723903	B	142841	-0.0175
14	20.890	ENDRIN KETONE	9732	E	1718	-0.0428
17	25.154	DCBP	107079	B	12281	-0.0161
			1613196		324512	

9513555.1276

Chromatogram

Sample Name : CK*PEM*3
FileName : C:\TC4\HP58909\557A044.RAW
Method :
Start Time : 4.08 min End Time : 26.60 min
Scale Factor: 0.0 Plot Offset: 12 mV

Sample #:
Date : 5/10/94 12:37 PM
Time of Injection: 5/4/94 11:18 PM
Low Point : 11.90 mV High Point : 165.00 mV
Plot Scale: 153.1 mV



000182

9513355.1277

Software Version: 4.0<1C29>
Sample Name : CK*RESC*1 Time : 5/10/94 03:35 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/3/94 08:29 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B006.RAW
Result File : C:\TC4\HP58909\557B006.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B006.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B006.RST
Calib Method : C:\TC4\HP58909\557BRES from C:\TC4\HP58909\557B006.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 16

DATA REPORT

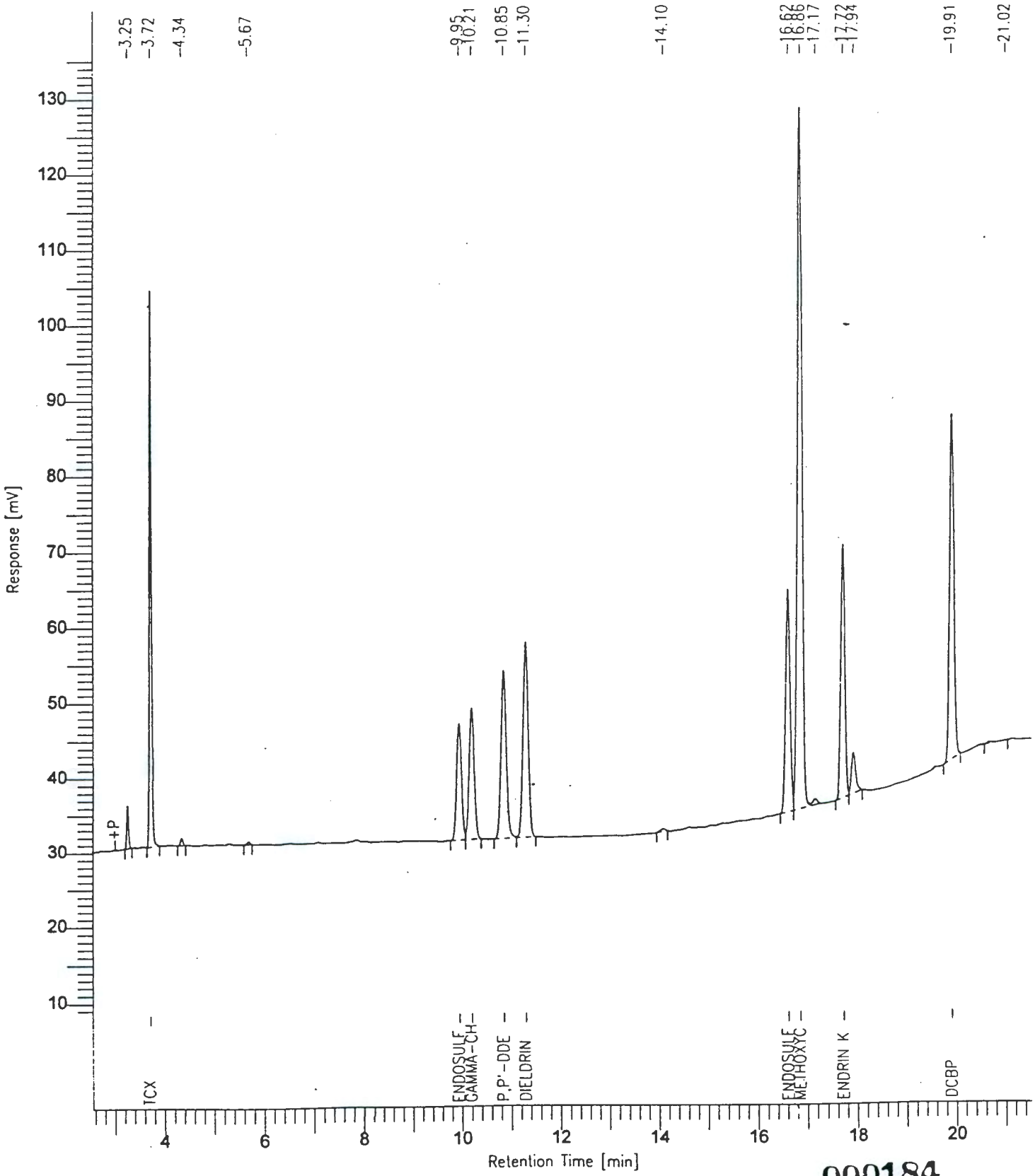
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.718	TCX	204828	B	74132	0.0264	0.0200
5	9.950	ENDOSULFAN A	109276	B	15699	0.0055	0.0100
6	10.205	GAMMA-CHLORDANE	126720	V	17638	0.0024	0.0100
7	10.852	P,P'-DDE	170152	B	22474	0.0116	0.0200
8	11.302	DIELDRIN	195604	V	26140	0.0117	0.0200
10	16.619	ENDOSULFAN SULFATE	188069	B	29673	-0.0130	0.0200
11	16.864	METHOXYCHLOR	606293	V	93161	0.0001	0.1000
13	17.724	ENDRIN KETONE	193280	B	33620	-0.0162	0.0200
15	19.913	DCBP	279480	B	45737	0.0067	0.0200
			2073701		358275		0.2400

9513355.1278

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\557B006.RAW
Method :
Start Time : 2.55 min End Time : 21.52 min
Scale Factor: 0.0 Plot Offset: 8 mV

Sample #:
Date : 5/10/94 03:35 PM
Time of Injection: 5/3/94 08:29 PM
Low Point : 8.44 mV High Point : 135.43 mV
Plot Scale: 127.0 mV



000184

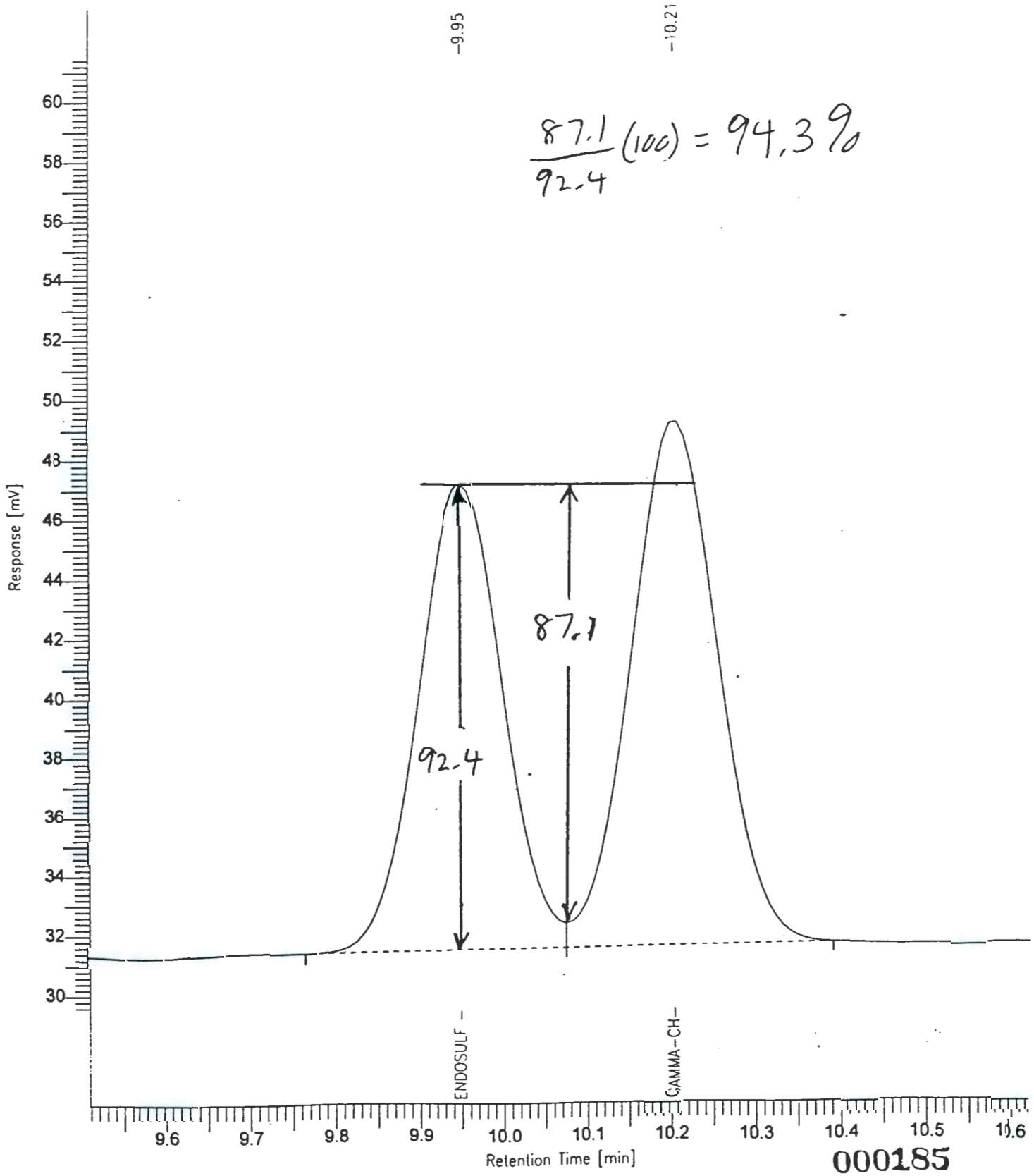
9515555.129

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\557B006.RAW
Method :
Start Time : 9.51 min End Time : 10.62 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/10/94 03:36 PM
Time of Injection: 5/3/94 08:29 PM
Low Point : 29.47 mV High Point : 61.53 mV
Plot Scale: 32.1 mV

$\frac{87.1}{92.4}(100) = 94.3\%$

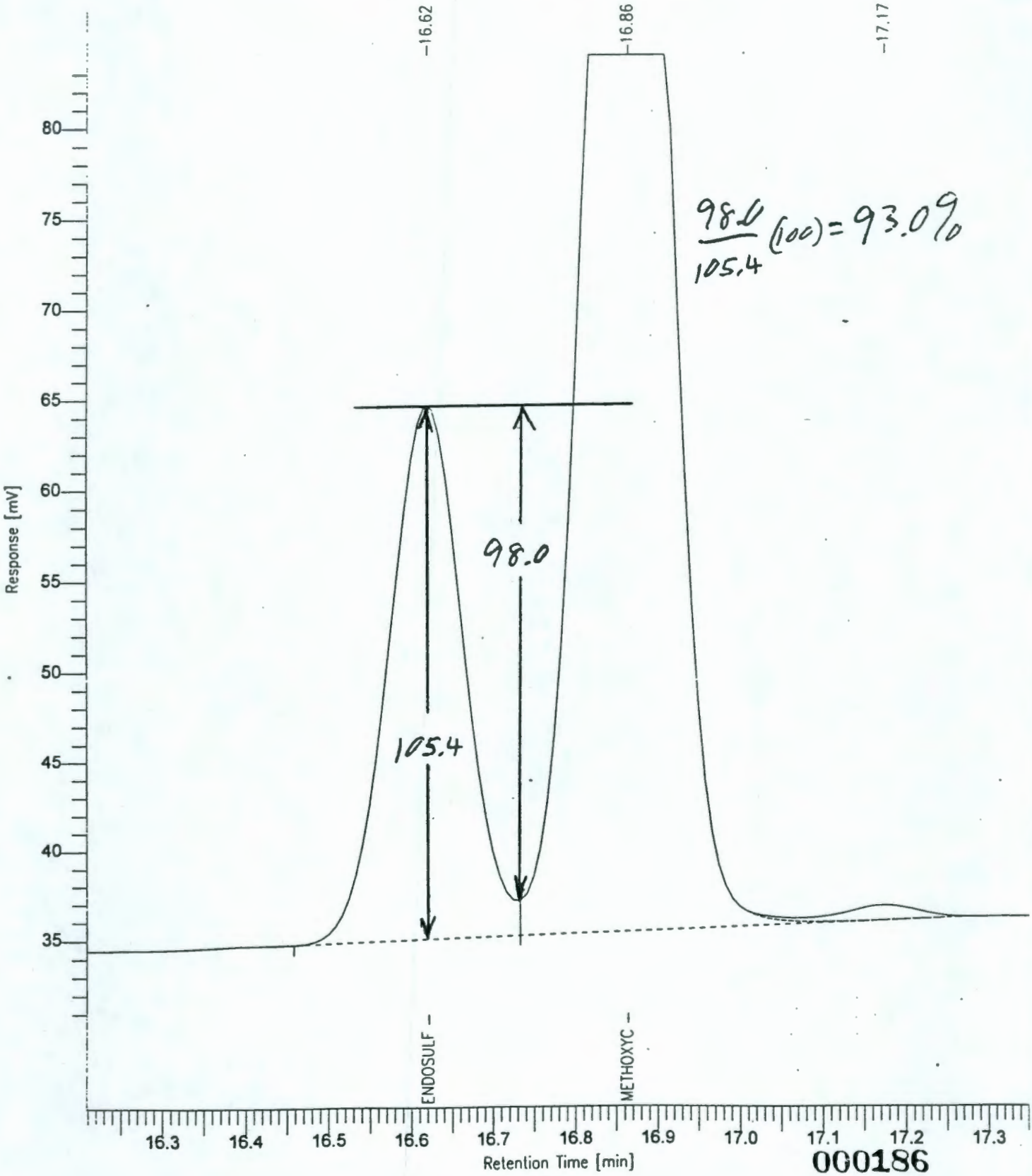


9513355.1280

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\557B006.RAW
Method :
Start Time : 16.21 min End Time : 17.35 min
Scale Factor: 0.0 Plot Offset: 31 mV

Sample #:
Date : 5/10/94 03:37 PM
Time of Injection: 5/3/94 08:29 PM
Low Point : 30.94 mV High Point : 83.91 mV
Plot Scale: 53.0 mV



$\frac{98.0}{105.4}(100) = 93.0\%$

Software Version: 4.0<1C29>
Sample Name : CK*PEM*1 Time : 5/10/94 03:38 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/3/94 09:12 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B007.RAW
Result File : C:\TC4\HP58909\557B007.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B007.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B007.RST
Calib Method : C:\TC4\HP58909\557BPEM from C:\TC4\HP58909\557B007.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 21

DATA REPORT

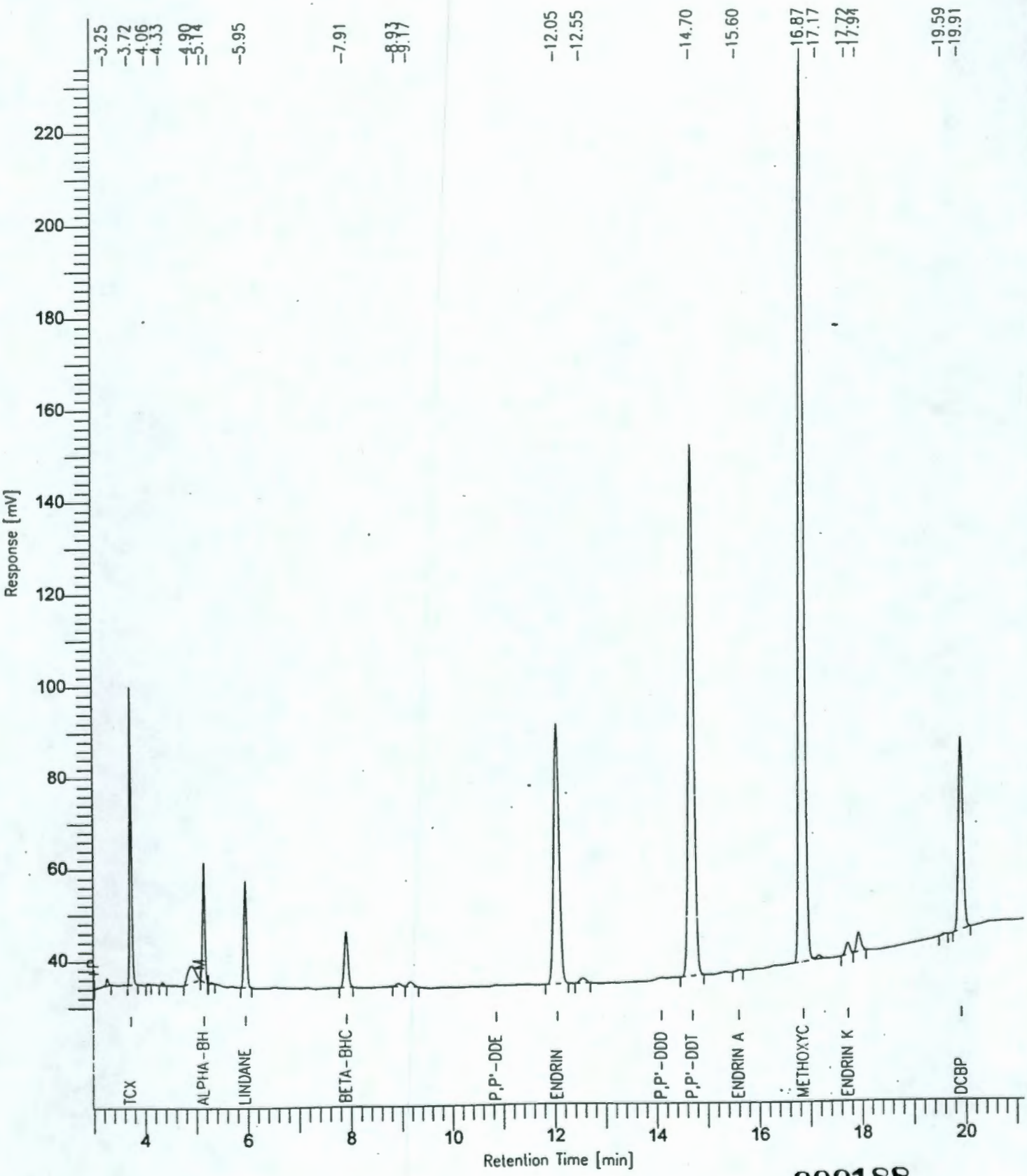
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.717	TCX	174780	B	65017	-0.0135
6	5.139	ALPHA-BHC	80756	*B	26019	-0.0275
8	5.948	LINDANE	87076	B	23125	-0.0061
9	7.907	BETA-BHC	59971	B	11918	-0.0317
12	12.051	ENDRIN	424363	B	56987	0.0076
14	14.702	P,P'-DDT	831636	B	115560	0.0050
15	15.600	ENDRIN ALDEHYDE	1735	B	277	-0.0128
16	16.865	METHOXYCHLOR	1298058	B	196592	-0.0024
18	17.724	ENDRIN KETONE	14928	B	2623	-0.0222
21	19.914	DCBP	255370	B	42205	0.0009
			3228672		540324	

9513355.1282

Chromatogram

Sample Name : CK*PEM*1
FileName : C:\TC4\HP58909\557B007.RAW
Method :
Start Time : 2.97 min End Time : 21.13 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 5/10/94 03:38 PM
Time of Injection: 5/3/94 09:12 PM
Low Point : 28.37 mV High Point : 234.84 mV
Plot Scale: 206.5 mV



000188

Software Version: 4.0<1C29>
Sample Name : ICV*AR1660*1 Time : 5/10/94 03:40 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/3/94 09:54 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B008.RAW
Result File : C:\TC4\HP58909\557B008.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B008.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B008.RST
Calib Method : C:\TC4\HP58909\557B1660 from C:\TC4\HP58909\557B008.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 50

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.253		19391	B	7495	-------	1.9391e-07
2	3.718	TCX	199202	B	72462	-6e-15	0.0200
4	4.251		4029	B	1256	-------	4.0289e-08
6	4.493		5055	B	1555	-------	5.0553e-08
7	4.593		27421	V	7663	-------	2.7421e-07
8	4.936		3418	B	935	-------	3.4175e-08
9	5.267	PCB-1016-1	57776	B	14155	2e-15	0.1000
11	5.650		17088	V	3749	-------	1.7088e-07
12	5.744		21686	V	5052	-------	2.1686e-07
13	6.033		14533	B	3154	-------	1.4533e-07
14	6.226	PCB-1016-2	108784	V	21862	-6e-15	0.1000
15	6.526		49416	V	8318	-------	4.9416e-07

9513355.1284

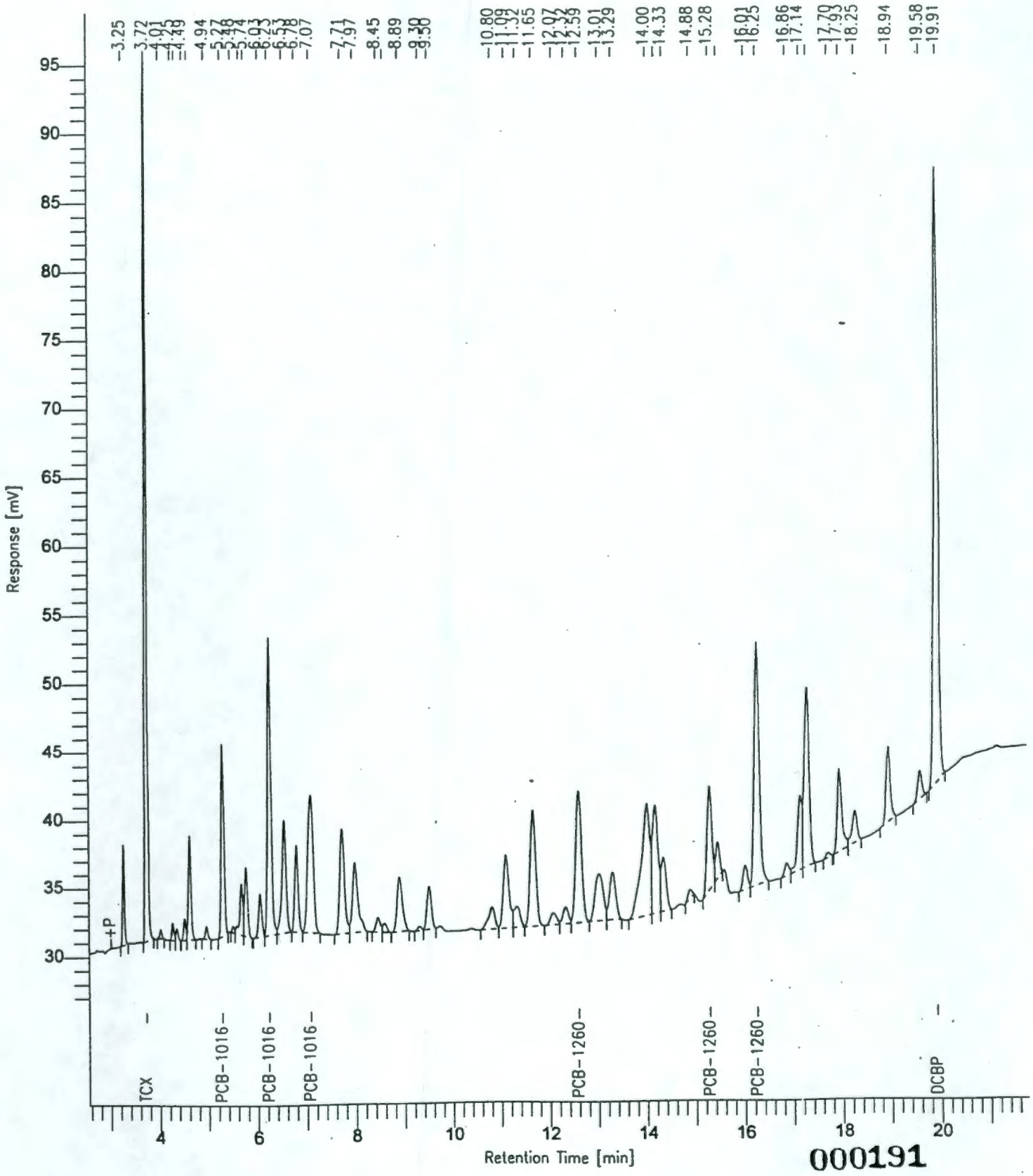
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
16	6.778		31398	B	6385	-------	3.1398e-07
17	7.071	PCB-1016-3	80774	V	10131	-5e-15	0.1000
18	7.711		52504	B	7754	-------	5.2504e-07
19	7.972		40454	V	5156	-------	4.0454e-07
20	8.446		6775	B	1082	-------	6.7749e-08
21	8.580		3875	V	669	-------	3.8748e-08
22	8.888		31145	B	4023	-------	3.1145e-07
24	9.498		20460	V	3171	-------	2.0460e-07
25	10.803		15638	B	1643	-------	1.5638e-07
26	11.091		45579	V	5423	-------	4.5579e-07
27	11.321		13965	V	1563	-------	1.3965e-07
28	11.653		69680	V	8584	-------	6.9680e-07
29	12.070		7891	B	896	-------	7.8912e-08
30	12.318		9802	V	1246	-------	9.8020e-08
31	12.589	PCB-1260-1	83063	V	9700	-5e-15	0.1000
32	13.010		41405	V	3477	-------	4.1405e-07
33	13.288		31366	V	3526	-------	3.1366e-07
34	13.995		102783	B	8239	-------	1.0278e-06
35	14.165		65140	V	7959	-------	6.5140e-07
36	14.333		28954	V	3984	-------	2.8954e-07
37	14.883		4101	B	642	-------	4.1010e-08
38	15.281	PCB-1260-2	54135	B	7616	3e-15	0.1000
39	15.448		15150	V	2657	-------	1.5150e-07
40	16.011		11853	B	1787	-------	1.1853e-07
41	16.251	PCB-1260-3	129840	V	17799	1e-14	0.1000
42	16.860		6075	B	932	-------	6.0751e-08
43	17.138		35660	V	5444	-------	3.5660e-07
44	17.279		92696	V	13124	-------	9.2696e-07
46	17.934		40314	B	6076	-------	4.0314e-07
47	18.254		16734	V	2315	-------	1.6734e-07
48	18.940		33869	B	5521	-------	3.3869e-07
49	19.581		12333	B	2108	-------	1.2333e-07
50	19.913	DCBP	276134	B	44997	-8e-15	0.0200
			2039344		353283		0.6400

9513355.1285

Chromatogram

Sample Name : ICV*AR1660*1
FileName : C:\TC4\HP58909\557B008.RAW
Method :
Start Time : 2.55 min End Time : 21.76 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #:
Date : 5/10/94 03:40 PM
Time of Injection: 5/3/94 09:54 PM
Low Point : 26.00 mV High Point : 95.36 mV
Plot Scale: 69.4 mV



000191

Software Version: 4.0<1C29>
Sample Name : ICV*AR1221*1 Time : 5/10/94 03:41 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/3/94 10:36 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B009.RAW
Result File : C:\TC4\HP58909\557B009.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B009.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B009.RST
Calib Method : C:\TC4\HP58909\557B1221 from C:\TC4\HP58909\557B009.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.256	PCB-1221-1	39690	B	13778	-5e-15	0.2000
2	3.718	TCX	206528	B	72193	2e-15	0.0200
3	3.955		3671	V	1343	-------	3.6709e-08
4	4.009		7953	V	2260	-------	7.9530e-08
5	4.251	PCB-1221-2	20018	B	6651	3e-15	0.2000
6	4.494		17103	B	5084	-------	1.7103e-07
7	4.594	PCB-1221-3	62006	V	17111	-8e-15	0.2000
8	5.268		14154	B	3555	-------	1.4154e-07
9	5.561		7167	B	1728	-------	7.1669e-08
10	5.655		4324	V	1065	-------	4.3240e-08
11	5.743		4618	V	1159	-------	4.6176e-08
12	6.035		3342	B	731	-------	3.3423e-08

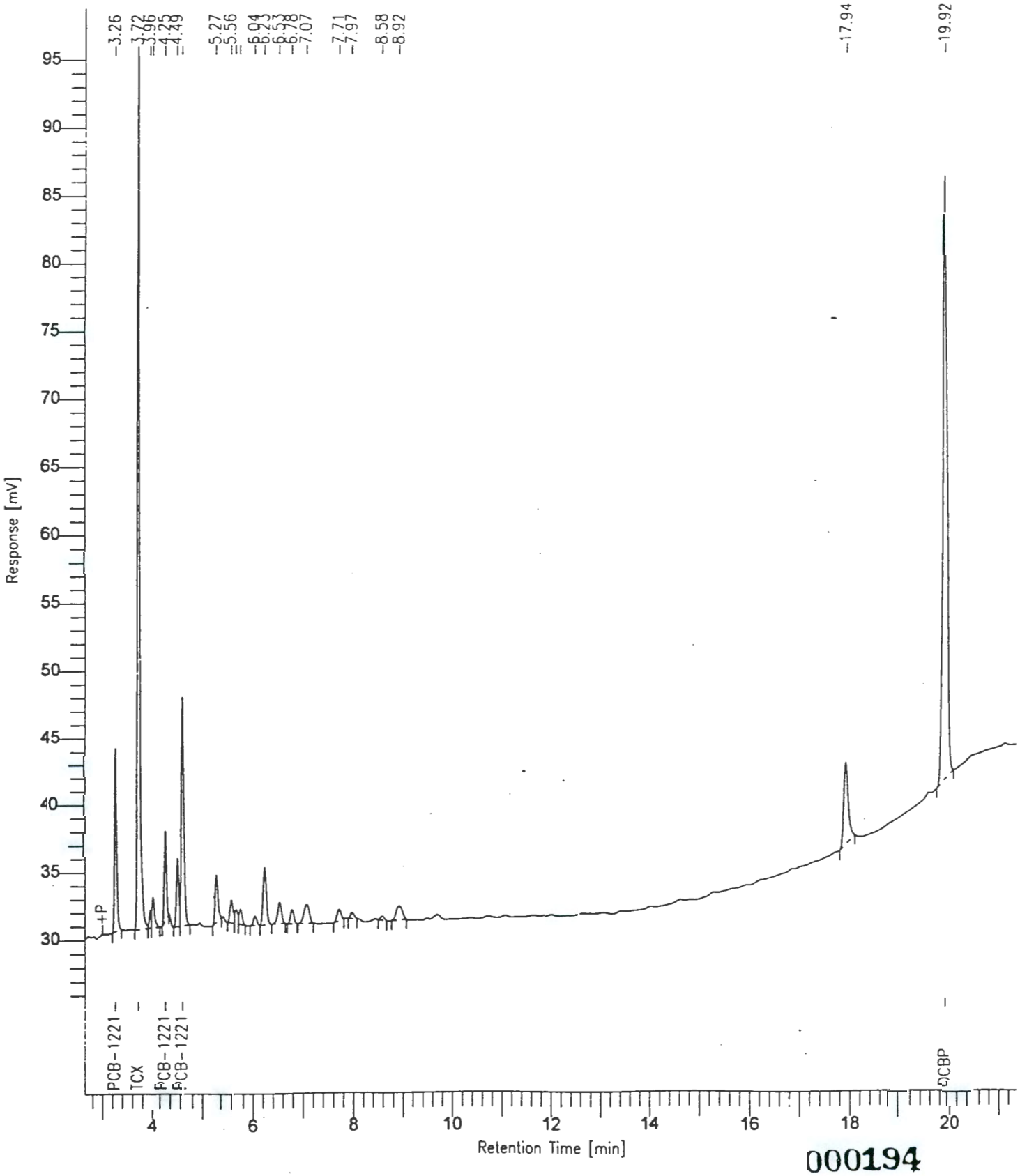
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
13	6.227		20176	B	4298	-------	2.0176e-07
14	6.528		8857	V	1625	-------	8.8574e-08
15	6.779		4974	B	1063	-------	4.9738e-08
16	7.071		10796	B	1419	-------	1.0796e-07
17	7.713		5004	B	887	-------	5.0038e-08
20	8.922		9174	B	1063	-------	9.1740e-08
21	17.937		38962	B	6144	-------	3.8962e-07
22	19.915	DCBP	272367	B	44582	-1e-15	0.0200
			760883		187739		0.6400

9513355.1288

Chromatogram

Sample Name : ICV*AR1221*1
FileName : C:\TC4\HP58909\557B009.RAW
Method :
Start Time : 2.64 min End Time : 21.38 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #:
Date : 5/10/94 03:41 PM
Time of Injection: 5/3/94 10:36 PM
Low Point : 25.59 mV High Point : 95.29 mV
Plot Scale: 69.7 mV



000194

Software Version: 4.0<1C29>
Sample Name : ICV*AR1232*1 Time : 5/10/94 03:42 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/3/94 11:19 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B010.RAW
Result File : C:\TC4\HP58909\557B010.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B010.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B010.RST
Calib Method : C:\TC4\HP58909\557B1232 from C:\TC4\HP58909\557B010.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 26

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.254		22654	B	8338	-------	2.2655e-07
2	3.718	TCX	199613	B	71514	3e-15	0.0200
4	4.250		7976	B	2513	-------	7.9760e-08
5	4.493		6658	B	2049	-------	6.6577e-08
7	4.593	PCB-1232-1	30066	V	8400	5e-15	0.1000
9	5.267	PCB-1232-2	25247	B	6331	-3e-15	0.1000
11	5.652		6779	V	1707	-------	6.7785e-08
12	5.743		9196	V	2175	-------	9.1965e-08
13	6.034		6409	B	1370	-------	6.4086e-08
14	6.227	PCB-1232-3	46333	V	9425	7e-15	0.1000
15	6.526		22077	V	3689	-------	2.2077e-07
16	6.779		13661	V	2707	-------	1.3661e-07

Result File : 557B010.RST, Printed On 5/10/94 03:42 PM

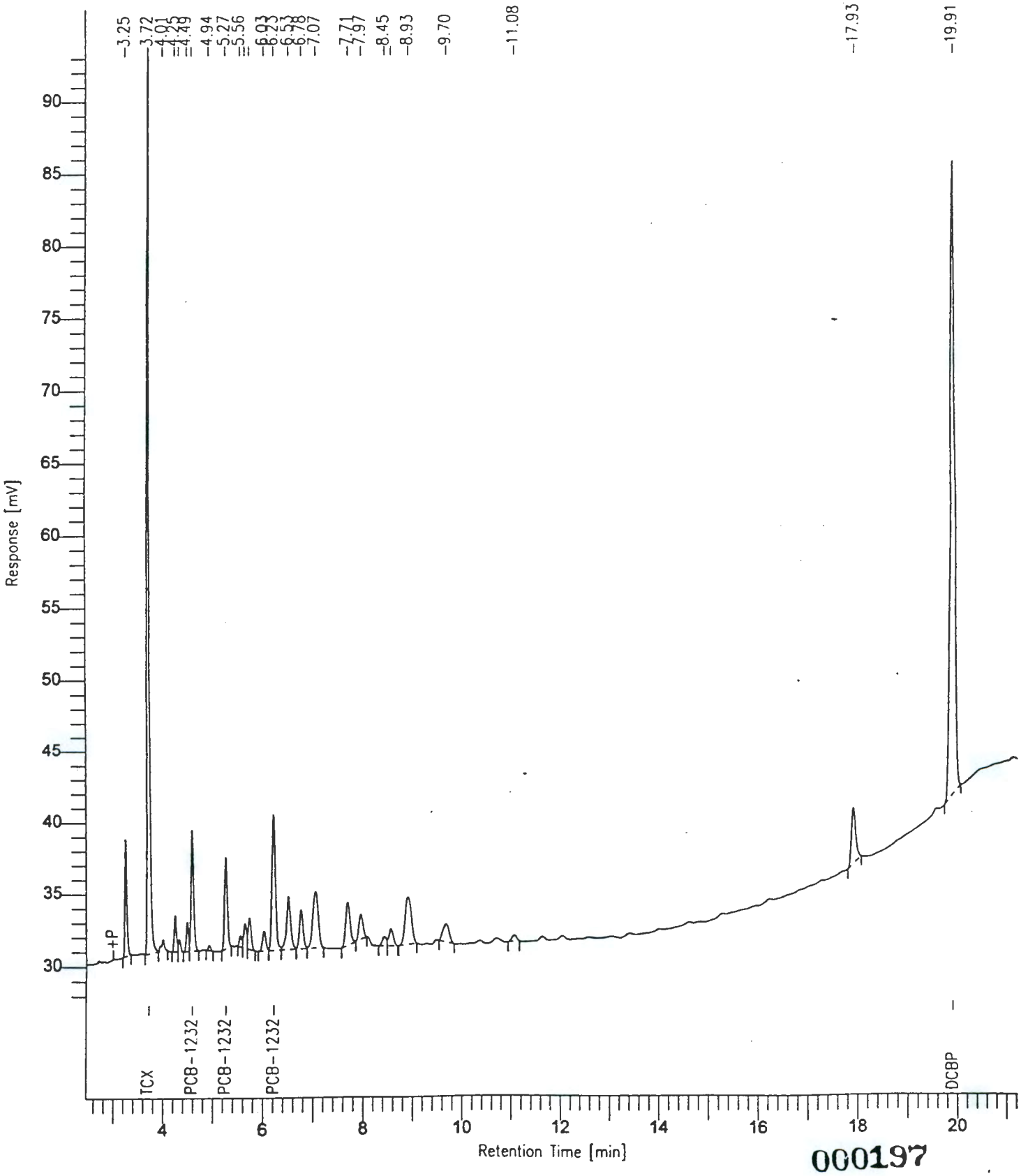
Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
17	7.070		30464	V	3902	-------	3.0464e-07
18	7.713		18714	B	2981	-------	1.8714e-07
19	7.973		9722	V	1743	-------	9.7221e-08
20	8.447		3777	B	653	-------	3.7767e-08
21	8.581		7253	V	1177	-------	7.2526e-08
22	8.928		29297	B	3291	-------	2.9297e-07
23	9.698		10840	B	1250	-------	1.0840e-07
25	17.934		23872	B	3916	-------	2.3873e-07
26	19.913	DCBP	271036	B	44177	-4e-15	0.0200
			801643		183310		0.3400

9513355.1291

Chromatogram

Sample Name : ICV*AR1232*1
FileName : C:\TC4\HP58909\557B010.RAW
Method :
Start Time : 2.45 min End Time : 21.23 min
Scale Factor: 0.0 Plot Offset: 27 mV

Sample #:
Date : 5/10/94 03:42 PM
Time of Injection: 5/3/94 11:19 PM
Low Point : 27.42 mV High Point : 93.13 mV
Plot Scale: 65.7 mV



000197

9513355.1292

Software Version: 4.0<1C29>
Sample Name : ICV*AR1242*1 Time : 5/10/94 03:43 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 12:01 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B011.RAW
Result File : C:\TC4\HP58909\557B011.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B011.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B011.RST
Calib Method : C:\TC4\HP58909\557B1242 from C:\TC4\HP58909\557B011.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 32

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.253		14724	B	5692	-------	1.4724e-07
2	3.718	TCX	200936	B	72229	2e-15	0.0200
4	4.251		3986	B	1250	-------	3.9857e-08
6	4.493		4898	B	1472	-------	4.8982e-08
7	4.593		24995	V	6956	-------	2.4995e-07
9	5.267	PCB-1242-1	46144	B	11286	-4e-15	0.1000
11	5.651		14063	V	2962	-------	1.4063e-07
12	5.743		17355	V	4029	-------	1.7355e-07
13	6.033		11724	B	2532	-------	1.1724e-07
14	6.227	PCB-1242-2	84794	V	16894	-1e-15	0.1000
15	6.526		39060	V	6550	-------	3.9060e-07
16	6.778		24123	B	4909	-------	2.4123e-07

Result File : 557B011.RST, Printed On 5/10/94 03:43 PM

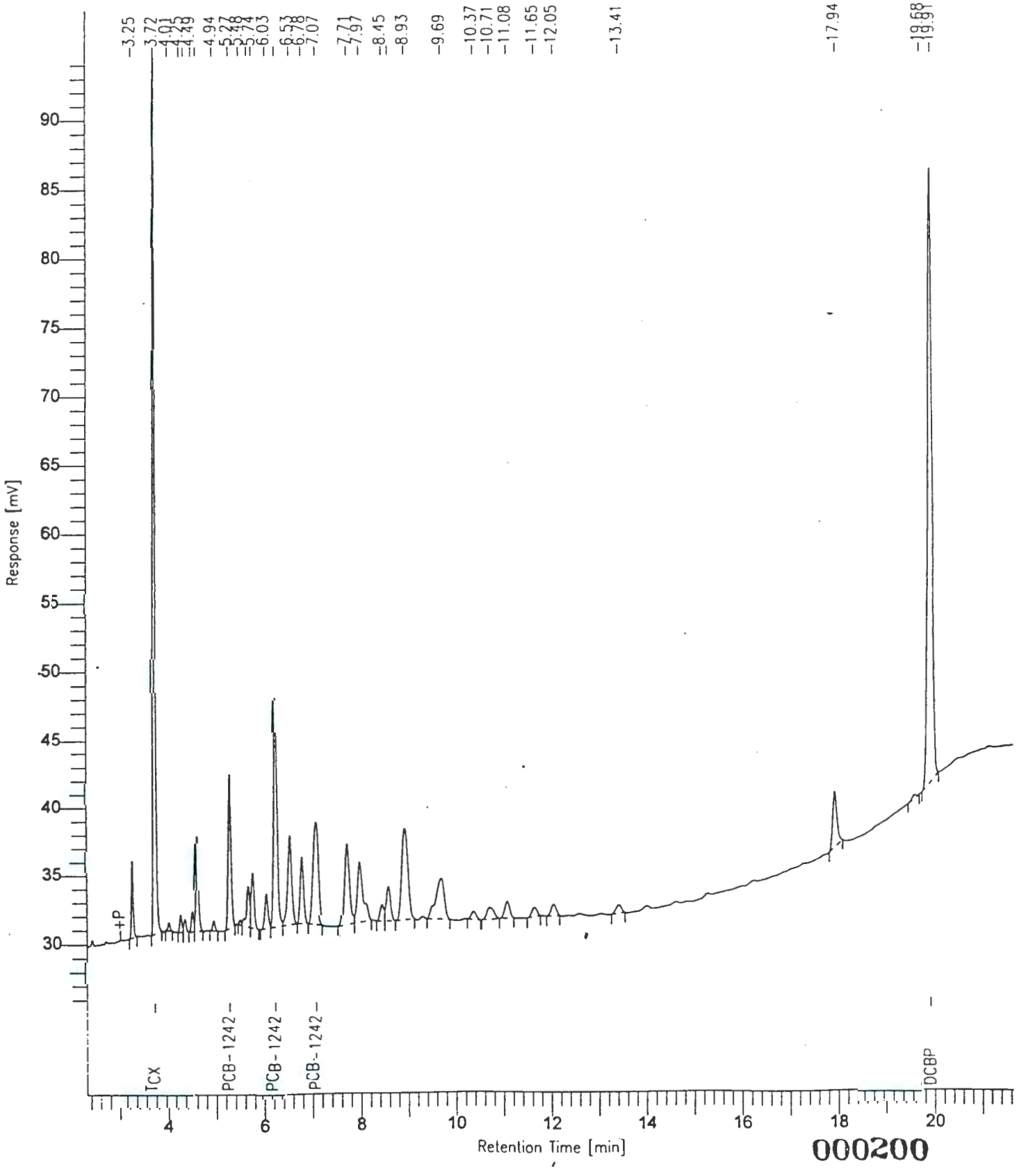
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
17	7.071	PCB-1242-3	58944	B	7493	-2e-15	0.1000
18	7.711		40647	B	5921	-------	4.0647e-07
19	7.971		37521	V	4425	-------	3.7521e-07
20	8.447		7095	B	1213	-------	7.0950e-08
21	8.580		15776	V	2546	-------	1.5776e-07
22	8.925		61544	B	6739	-------	6.1545e-07
23	9.692		37518	B	3007	-------	3.7518e-07
24	10.369		4134	B	597	-------	4.1345e-08
25	10.714		9175	B	891	-------	9.1750e-08
26	11.075		9049	V	1242	-------	9.0490e-08
27	11.647		5258	B	704	-------	5.2575e-08
28	12.050		6289	B	852	-------	6.2893e-08
29	13.414		5174	B	630	-------	5.1745e-08
30	17.936		25352	B	4109	-------	2.5352e-07
32	19.913	DCBP	277661	B	44920	2e-15	0.0200
			1087940		222053		0.3400

9513355.1294

Chromatogram

Sample Name : ICV*AR1242*1
FileName : C:\TC4\HP58909\557B011.RAW
Method :
Start Time : 2.31 min End Time : 21.66 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #:
Date : 5/10/94 03:43 PM
Time of Injection: 5/4/94 12:01 AM
Low Point : 25.81 mV High Point : 94.60 mV
Plot Scale: 68.8 mV



9513355.1295

Software Version: 4.0<1C29>
Sample Name : ICV*AR1248*1 Time : 5/10/94 03:43 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 12:43 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B012.RAW
Result File : C:\TC4\HP58909\557B012.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B012.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B012.RST
Calib Method : C:\TC4\HP58909\557B1248 from C:\TC4\HP58909\557B012.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 31

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.253		15196	B	5947	-------	1.5196e-07
2	3.718	TCX	192818	B	70758	-4e-15	0.0200
5	5.267		22468	B	5587	-------	2.2469e-07
6	5.654		6775	B	1608	-------	6.7750e-08
7	5.744		5870	V	1441	-------	5.8703e-08
8	6.030		3475	B	746	-------	3.4752e-08
9	6.226	PCB-1248-1	53411	V	10954	-7e-15	0.1000
10	6.523		23878	V	3638	-------	2.3878e-07
11	6.781		16887	B	3396	-------	1.6887e-07
12	7.064	PCB-1248-2	98662	V	12410	3e-15	0.1000
13	7.711		64497	B	9772	-------	6.4497e-07
14	7.971		51580	V	7386	-------	5.1580e-07

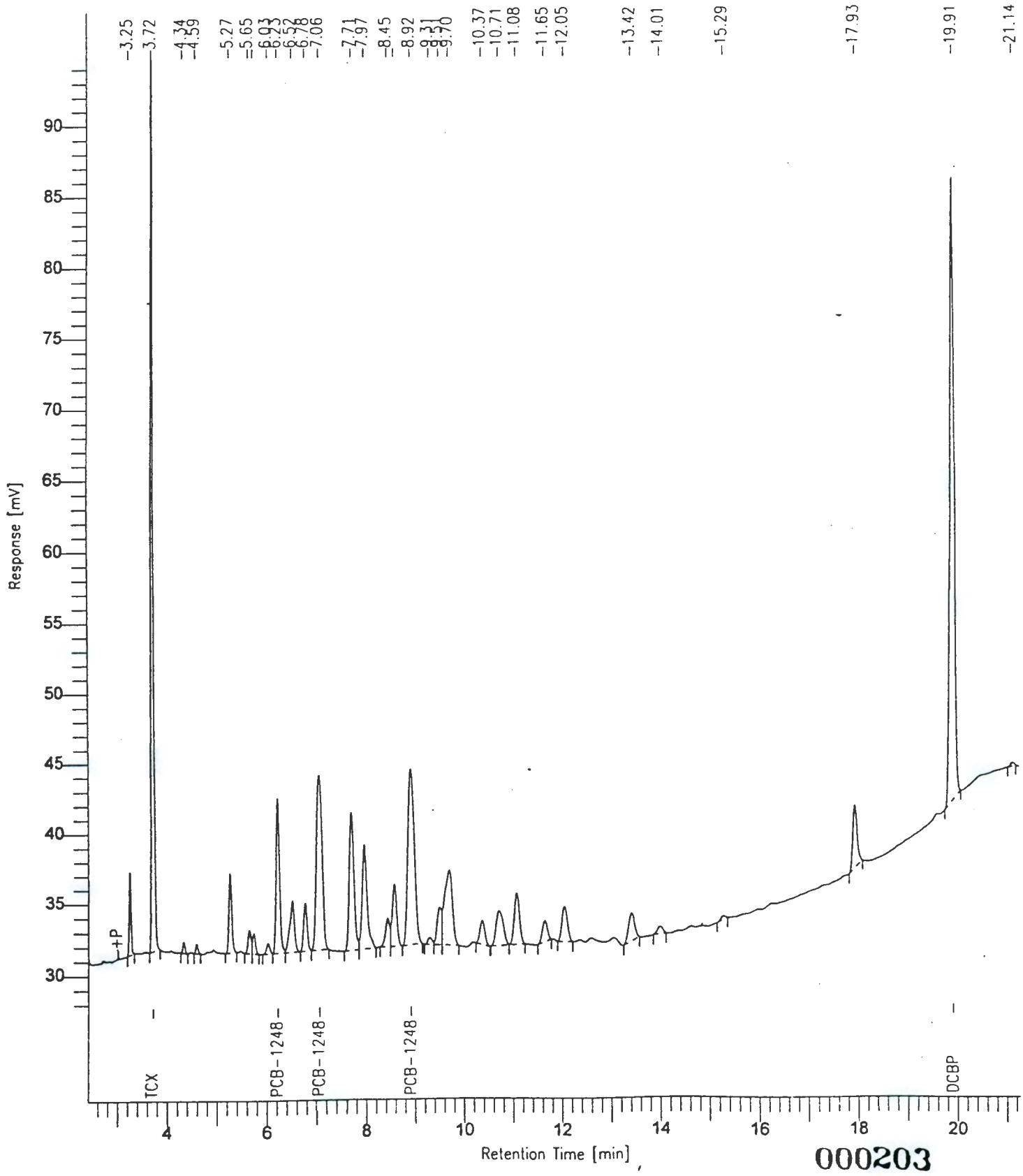
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
15	8.446		12219	B	1983	-------	1.2219e-07
16	8.583		27558	V	4383	-------	2.7558e-07
17	8.920	PCB-1248-3	115256	B	12476	9e-15	0.1000
19	9.506		16741	V	2643	-------	1.6741e-07
20	9.703		58341	V	5299	-------	5.8341e-07
21	10.373		11542	B	1672	-------	1.1543e-07
22	10.714		25078	B	2463	-------	2.5078e-07
23	11.077		26782	V	3620	-------	2.6782e-07
24	11.651		10798	B	1471	-------	1.0798e-07
25	12.053		18944	B	2473	-------	1.8944e-07
26	13.418		17105	B	1986	-------	1.7105e-07
27	14.005		4089	B	533	-------	4.0890e-08
29	17.934		27434	B	4456	-------	2.7434e-07
30	19.914	DCBP	268153	B	44086	-7e-15	0.0200
			1195555		223188		0.3400

9513355.1297

Chromatogram

Sample Name : ICV*AR1248*1
FileName : C:\TC4\HP58909\557B012.RAW
Method :
Start Time : 2.41 min End Time : 21.28 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 5/10/94 03:43 PM
Time of Injection: 5/4/94 12:43 AM
Low Point : 27.81 mV High Point : 94.70 mV
Plot Scale: 66.9 mV



000203

Software Version: 4.0<1C29>
Sample Name : ICV*AR1254*1 Time : 5/10/94 03:43 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 01:26 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B013.RAW
Result File : C:\TC4\HP58909\557B013.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B013.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B013.RST
Calib Method : C:\TC4\HP58909\557B1254 from C:\TC4\HP58909\557B013.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 33

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.253		18923	B	7398	-------	1.8923e-07
2	3.718	TCX	196659	B	72237	4e-15	0.0200
7	7.039		44006	B	7085	-------	4.4006e-07
8	7.707		16618	B	3045	-------	1.6619e-07
9	7.969		5018	B	970	-------	5.0180e-08
10	8.586		6405	B	1070	-------	6.4045e-08
11	8.891	PCB-1254-1	94334	B	11481	3e-15	0.1000
12	9.305		13881	V	2080	-------	1.3881e-07
13	9.505		97751	V	10311	-------	9.7751e-07
14	9.737		25574	V	3679	-------	2.5574e-07
15	10.180		3922	B	601	-------	3.9224e-08
16	10.374		28752	V	3836	-------	2.8752e-07

Result File : 557B013.RST, Printed On 5/10/94 03:43 PM

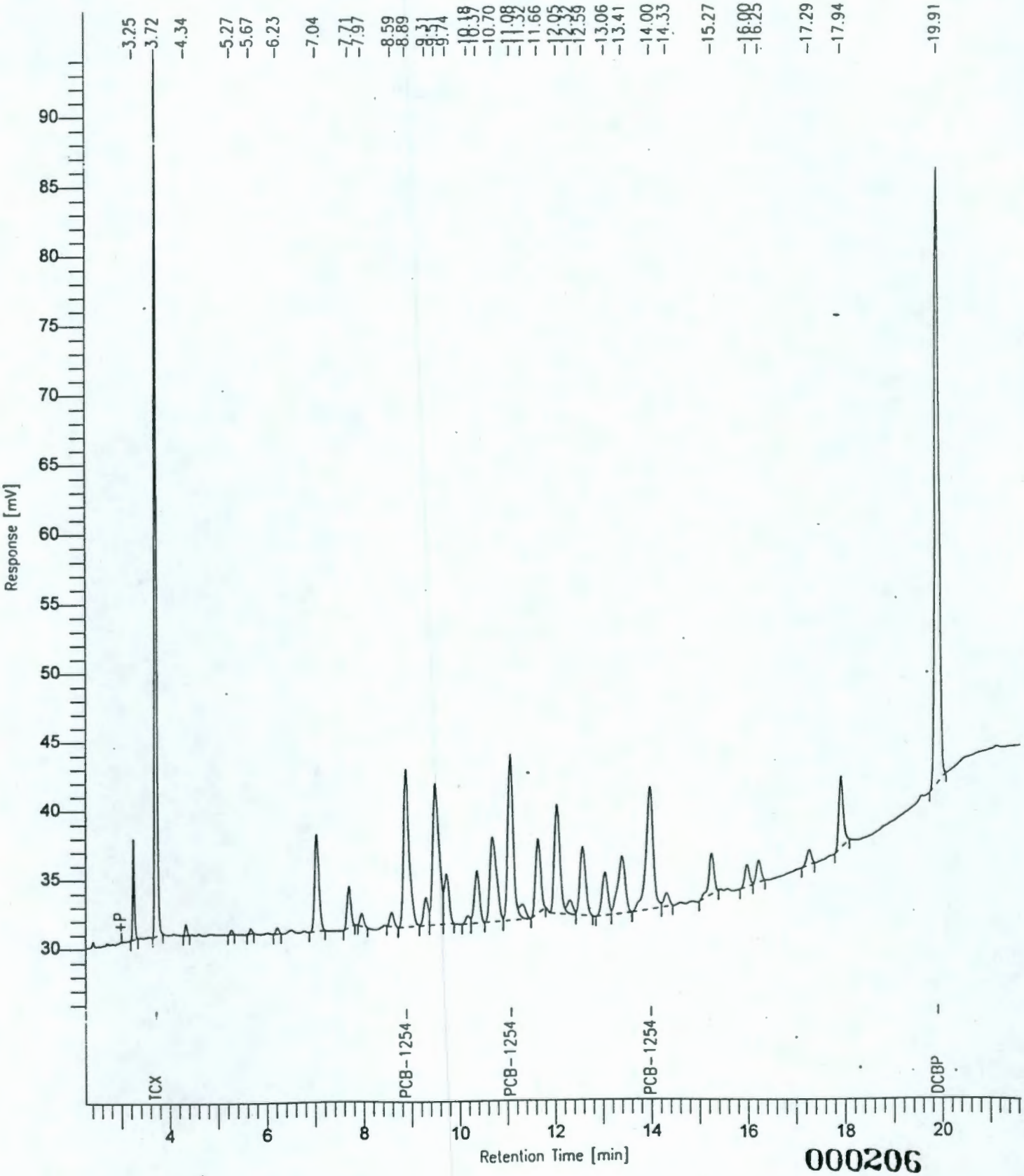
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
17	10.702		61448	B	6189	-------	6.1448e-07
18	11.077	PCB-1254-2	96632	V	12092	0.0000	0.1000
19	11.322		8404	E	993	-------	8.4045e-08
20	11.655		41104	B	5411	-------	4.1104e-07
21	12.053		66531	B	7948	-------	6.6531e-07
22	12.319		7702	E	977	-------	7.7015e-08
23	12.588		41634	V	5008	-------	4.1634e-07
24	13.056		26255	B	3163	-------	2.6255e-07
25	13.414		45417	V	4173	-------	4.5417e-07
26	13.997	PCB-1254-3	93979	B	8927	4e-15	0.1000
27	14.333		7422	V	985	-------	7.4220e-08
28	15.271		22881	B	2980	-------	2.2881e-07
29	16.003		10736	B	1597	-------	1.0736e-07
30	16.249		10677	V	1589	-------	1.0677e-07
31	17.288		7485	B	1123	-------	7.4850e-08
32	17.937		33117	B	5189	-------	3.3117e-07
33	19.914	DCBP	272734	B	44481	6e-15	0.0200
			1406002		236618		0.3400

9513355.1300

Chromatogram

Sample Name : ICV*AR1254*1
FileName : C:\TC4\HP58909\557B013.RAW
Method :
Start Time : 2.26 min End Time : 21.66 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #:
Date : 5/10/94 03:43 PM
Time of Injection: 5/4/94 01:26 AM
Low Point : 25.65 mV High Point : 94.20 mV
Plot Scale: 68.6 mV



000206

Software Version: 4.0<1C29>
Sample Name : ICV*ITOXAPH*1 Time : 5/10/94 03:44 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 02:08 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B014.RAW
Result File : C:\TC4\HP58909\557B014.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B014.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B014.RST
Calib Method : C:\TC4\HP58909\557BTOX from C:\TC4\HP58909\557B014.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 56

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.253		15405	B	6027	-------	1.5405e-07
2	3.718	TCX	195508	B	71566	2e-15	0.0200
9	7.601		3584	B	680	-------	3.5840e-08
12	8.451		20236	B	2842	-------	2.0236e-07
13	9.072		13674	B	1675	-------	1.3674e-07
14	9.259		13806	V	1635	-------	1.3806e-07
15	9.578		26975	V	2897	-------	2.6975e-07
16	10.010		23963	B	1995	-------	2.3963e-07
17	10.411		10358	B	1640	-------	1.0359e-07
18	11.027		39532	B	3373	-------	3.9532e-07
19	11.412		22164	B	2429	-------	2.2164e-07
20	11.829		87757	B	7616	-------	8.7757e-07

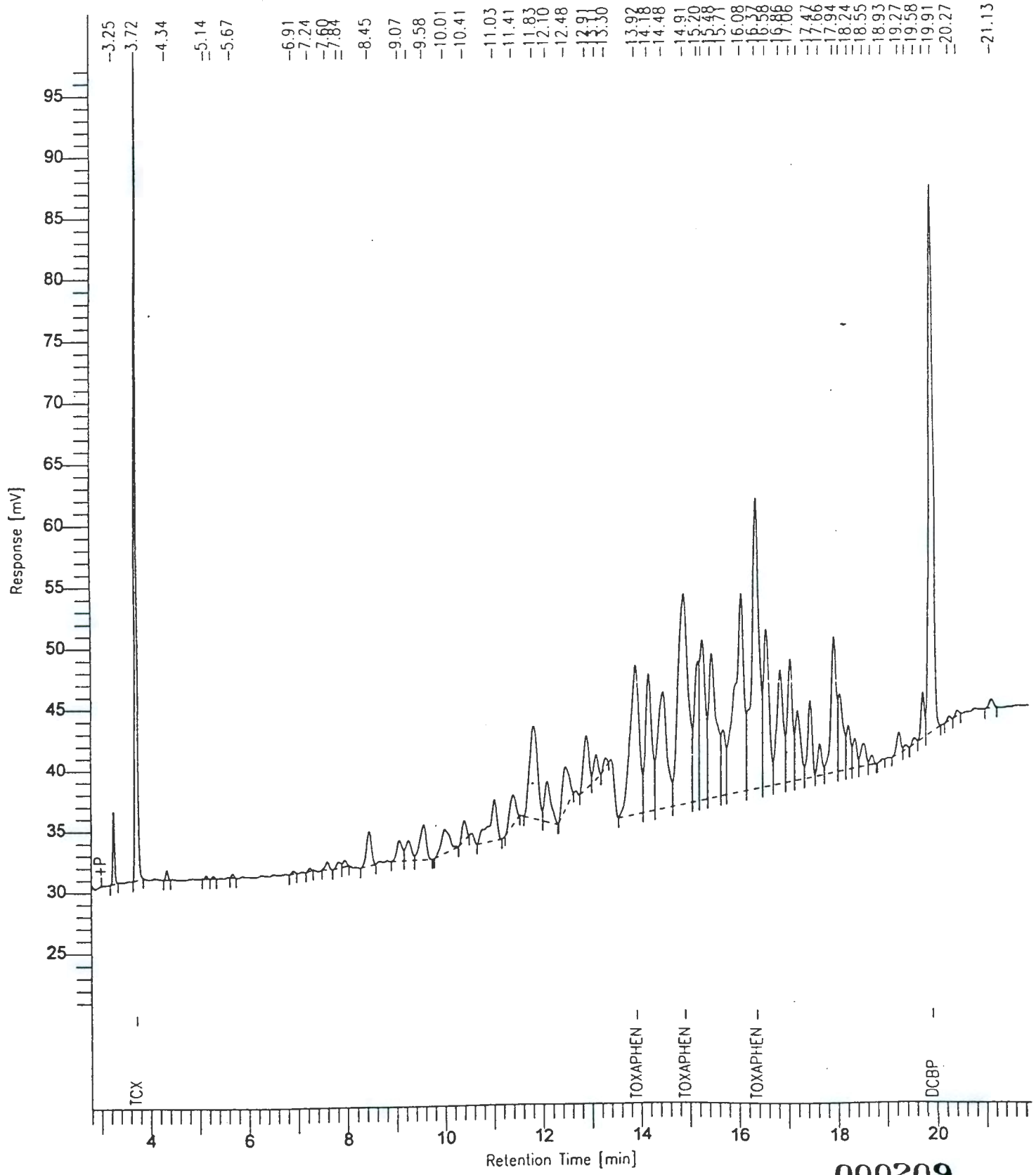
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
21	12.104		29914	V	3370	-------	2.9914e-07
22	12.479		34394	B	3494	-------	3.4394e-07
23	12.907		34945	B	4409	-------	3.4945e-07
24	13.105		13136	V	2112	-------	1.3136e-07
25	13.302		4374	B	810	-------	4.3743e-08
26	13.915	TOXAPHENE-1	163842	B	12219	6e-15	0.5000
27	14.182		103664	V	11325	-------	1.0366e-06
28	14.477		128231	V	9582	-------	1.2823e-06
29	14.909	TOXAPHENE-2	252152	V	17229	2e-15	0.5000
30	15.197		75696	V	11426	-------	7.5696e-07
31	15.284		106627	V	13101	-------	1.0663e-06
32	15.476		130897	V	11828	-------	1.3090e-06
33	15.708		34250	V	5465	-------	3.4250e-07
34	16.075		213640	V	16221	-------	2.1364e-06
35	16.367	TOXAPHENE-3	248942	V	23705	9e-15	0.5000
36	16.578		103049	V	12878	-------	1.0305e-06
37	16.861		86788	V	9325	-------	8.6788e-07
38	17.064		73394	V	10035	-------	7.3394e-07
39	17.213		43252	V	5722	-------	4.3252e-07
40	17.465		39253	V	6329	-------	3.9253e-07
41	17.659		15775	V	2641	-------	1.5775e-07
42	17.944		86422	V	11099	-------	8.6422e-07
43	18.059		44790	V	6344	-------	4.4790e-07
44	18.238		21670	V	3655	-------	2.1670e-07
45	18.369		14831	V	2484	-------	1.4831e-07
46	18.550		14581	V	1918	-------	1.4581e-07
47	18.712		4348	V	832	-------	4.3479e-08
49	19.267		10039	B	1758	-------	1.0039e-07
52	19.744		18017	V	3747	-------	1.8017e-07
53	19.913	DCBP	272715	V	44846	2e-15	0.0200
56	21.134		4358	B	708	-------	4.3583e-08
			2900947		374993		1.5400

9513355.1503

Chromatogram

Sample Name : ICV*ITOXAPH*1
FileName : C:\TC4\HP58909\557B014.RAW
Method :
Start Time : 2.79 min End Time : 21.90 min
Scale Factor: 0.0 Plot Offset: 20 mV

Sample #:
Date : 5/10/94 03:44 PM
Time of Injection: 5/4/94 02:08 AM
Low Point : 20.06 mV High Point : 97.82 mV
Plot Scale: 77.8 mV



Software Version: 4.0<1C29>
Sample Name : ICV*INDAL*1 Time : 5/10/94 03:45 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 02:50 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B015.RAW
Result File : C:\TC4\HP58909\557B015.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B015.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B015.RST
Calib Method : C:\TC4\HP58909\557BAL from C:\TC4\HP58909\557B015.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 15

DATA REPORT

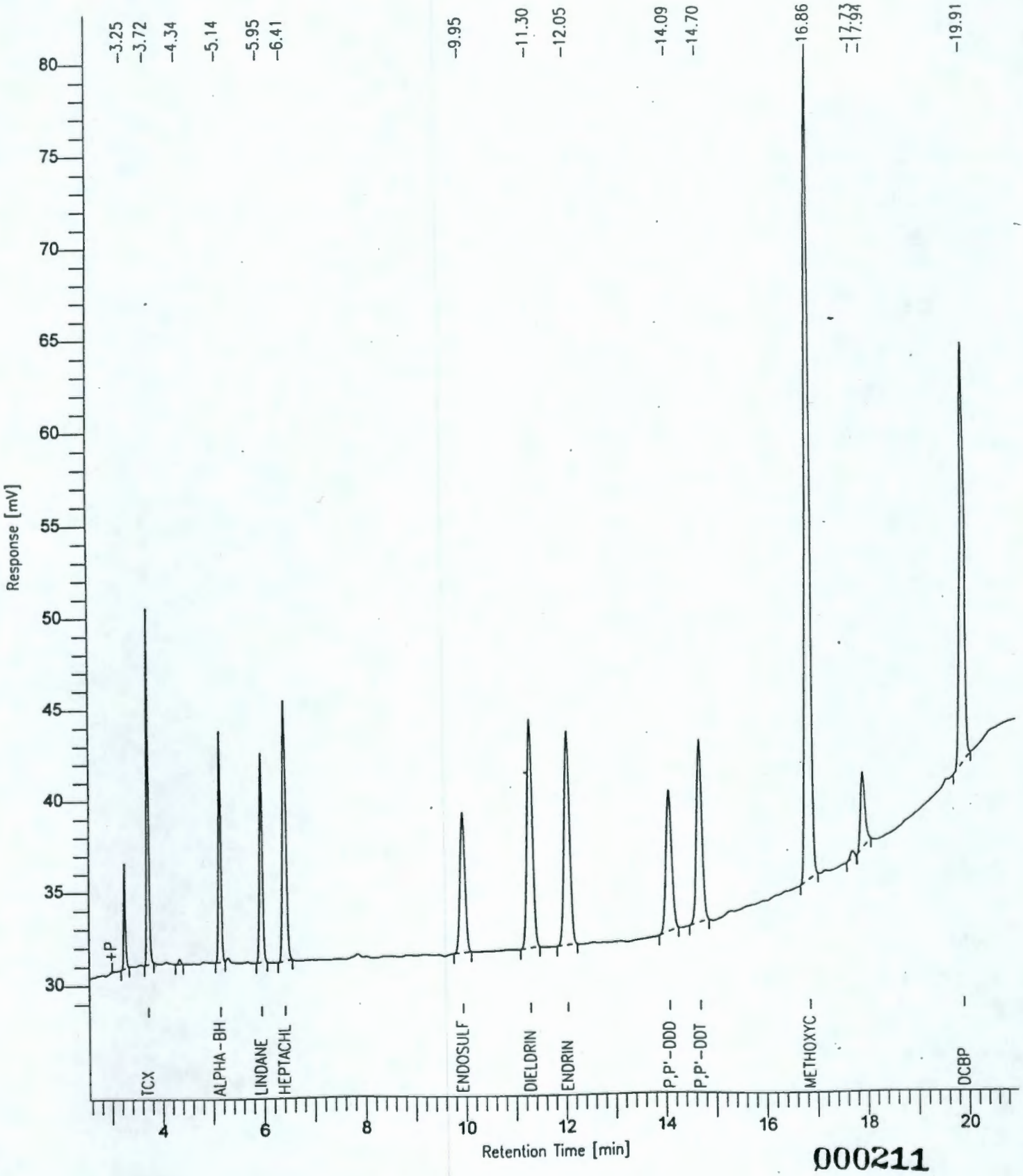
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.717	TCX	52432	B	19393	0.0235	0.0050
4	5.138	ALPHA-BHC	41572	B	12816	-0.0006	0.0050
5	5.946	LINDANE	44284	B	11571	0.0009	0.0050
6	6.413	HEPTACHLOR	69134	B	14313	0.0233	0.0050
7	9.951	ENDOSULFAN A	52838	B	7654	0.0220	0.0050
8	11.301	DIELDRIN	93871	B	12517	0.0144	0.0100
9	12.050	ENDRIN	90998	B	11713	0.0229	0.0100
10	14.088	P,P'-DDD	60967	B	7723	0.0057	0.0100
11	14.697	P,P'-DDT	75149	B	10040	0.0043	0.0100
12	16.863	METHOXYCHLOR	286871	B	45019	0.0041	0.0500
15	19.912	DCBP	138812	B	22933	0.0055	0.0100

9513355.1305

Chromatogram

Sample Name : ICV*INDAL*1
FileName : C:\TC4\HP58909\557B015.RAW
Method :
Start Time : 2.55 min End Time : 20.99 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/10/94 03:45 PM
Time of Injection: 5/4/94 02:50 AM
Low Point : 28.87 mV High Point : 80.15 mV
Plot Scale: 51.3 mV



000211

9513355.1306

Software Version: 4.0<1C29>
Sample Name : ICV*INDBL*1 Time : 5/10/94 03:46 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 03:33 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B016.RAW
Result File : C:\TC4\HP58909\557B016.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B016.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B016.RST
Calib Method : C:\TC4\HP58909\557BBL from C:\TC4\HP58909\557B016.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 17

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.717	TCX	52423	B	19443	0.0266	0.0050
4	7.087	ALDRIN	47894	B	9339	0.0201	0.0050
5	7.906	BETA-BHC	31720	B	6197	-0.0292	0.0050
6	8.608	DELTA-BHC	39604	B	7353	-0.0217	0.0050
7	9.074	HEPTACHLOR EPOXIDE	59261	B	9269	0.0143	0.0050
8	10.205	GAMMA-CHLORDANE	65456	B	8992	0.0081	0.0050
9	10.402	ALPHA-CHLORDANE	62552	V	8742	0.0111	0.0050
10	10.850	P,P'-DDE	79794	B	10604	0.0064	0.0100
11	14.102	ENDOSULFAN B	102385	B	13088	-0.0013	0.0100
12	15.600	ENDRIN ALDEHYDE	56573	B	7067	-0.0194	0.0100
14	16.619	ENDOSULFAN SULFATE	89692	B	14204	-0.0066	0.0100
15	17.725	ENDRIN KETONE	86150	B	15035	-0.0058	0.0100

Result File : 557B016.RST, Printed On 5/10/94 03:46 PM

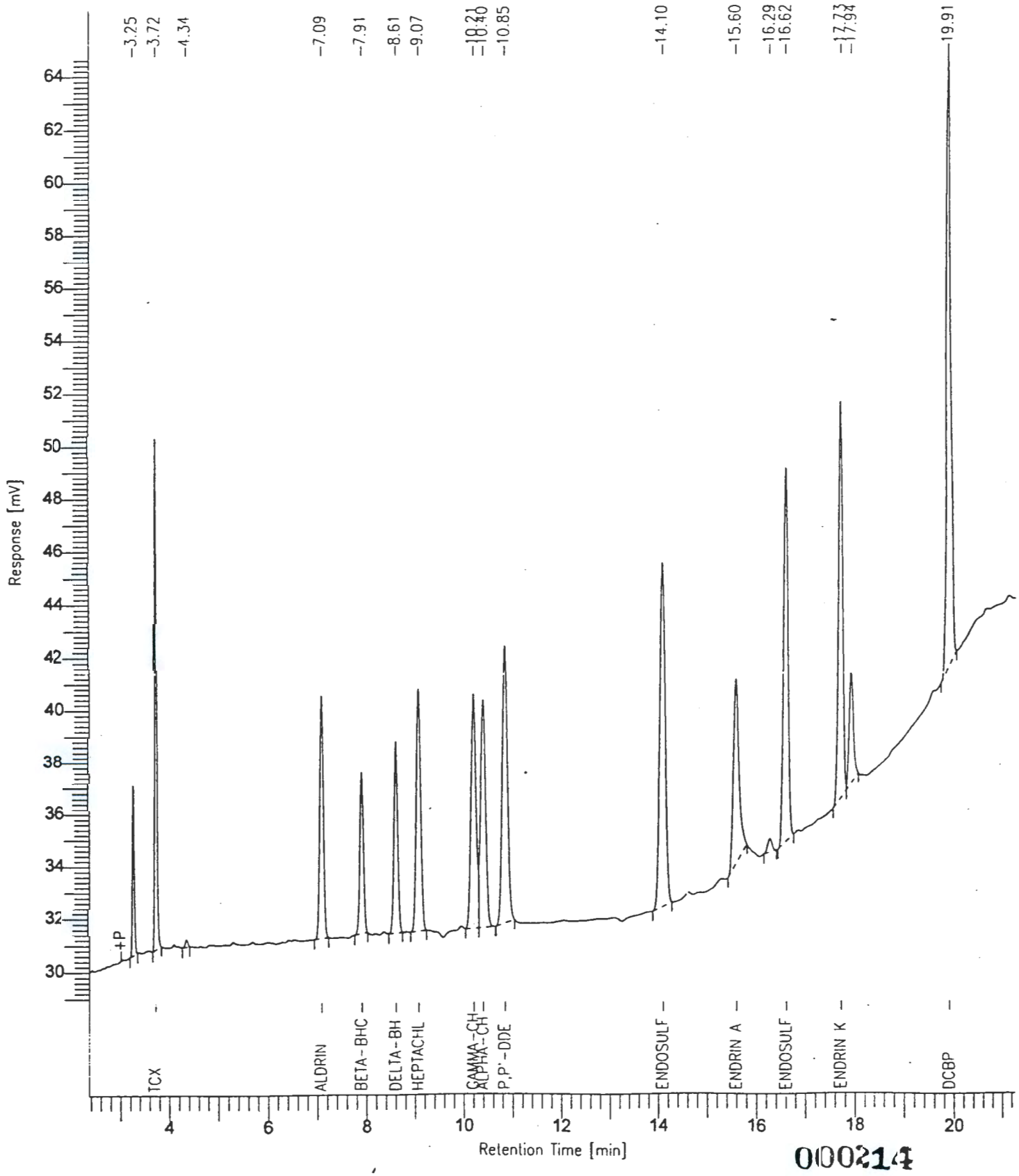
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
17	19.914	DCBP	141892	B	23448	0.0101	0.0100
			915395		152783		0.0950

9513355.1308

Chromatogram

Sample Name : ICV*INDBL*1
FileName : C:\TC4\HP58909\557B016.RAW
Method :
Start Time : 2.36 min End Time : 21.28 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/10/94 03:46 PM
Time of Injection: 5/4/94 03:33 AM
Low Point : 28.85 mV High Point : 64.73 mV
Plot Scale: 35.9 mV



000214

Software Version: 4.0<1C29>
Sample Name : ICV*INDAM*1 Time : 5/10/94 03:46 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 04:15 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B017.RAW
Result File : C:\TC4\HP58909\557B017.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B017.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B017.RST
Calib Method : C:\TC4\HP58909\557BAM from C:\TC4\HP58909\557B017.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 18

DATA REPORT

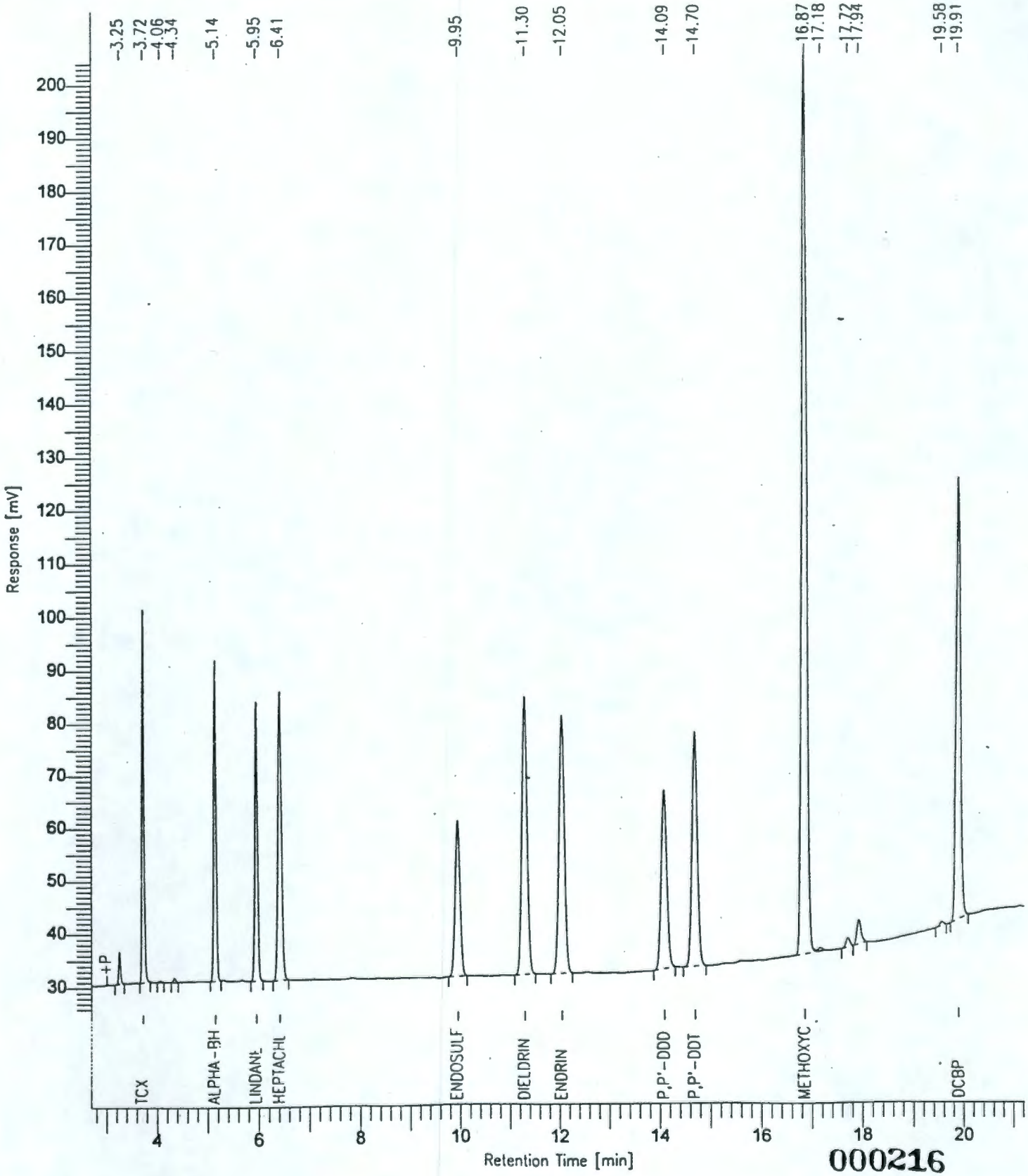
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.718	TCX	191580	B	70629	0.0274	0.0200
5	5.140	ALPHA-BHC	195105	B	60966	-0.0033	0.0200
6	5.948	LINDANE	199728	B	53086	-0.0116	0.0200
7	6.413	HEPTACHLOR	264532	B	55050	0.0162	0.0200
8	9.953	ENDOSULFAN A	205093	B	29655	0.0268	0.0200
9	11.302	DIELDRIN	385352	B	52905	0.0142	0.0400
10	12.050	ENDRIN	373654	B	49081	0.0119	0.0400
11	14.091	P,P'-DDD	260688	B	33844	0.0046	0.0400
12	14.701	P,P'-DDT	324556	B	44567	0.0120	0.0400
13	16.865	METHOXYCHLOR	1128506	B	170996	0.0062	0.2000
18	19.914	DCBP	519037	B	83588	0.0127	0.0400

9513355.1310

Chromatogram

Sample Name : ICV*INDAM*1
FileName : C:\TC4\HP58909\557B017.RAW
Method :
Start Time : 2.69 min End Time : 21.23 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #:
Date : 5/10/94 03:46 PM
Time of Injection: 5/4/94 04:15 AM
Low Point : 25.16 mV High Point : 204.83 mV
Plot Scale: 179.7 mV



9513355.1311

Software Version: 4.0<1C29>
Sample Name : ICV*INDBM*1 Time : 5/10/94 03:47 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 04:57 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B018.RAW
Result File : C:\TC4\HP58909\557B018.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B018.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B018.RST
Calib Method : C:\TC4\HP58909\557BBM from C:\TC4\HP58909\557B018.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 24

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.719	TCX	188729	B	68779	0.0344	0.0200
6	7.090	ALDRIN	189574	B	37520	0.0344	0.0200
7	7.910	BETA-BHC	123928	B	23974	-0.0162	0.0200
9	8.612	DELTA-BHC	166658	B	31714	-0.0026	0.0200
10	9.078	HEPTACHLOR EPOXIDE	220421	B	34270	0.0249	0.0200
12	10.209	GAMMA-CHLORDANE	239146	V	32841	0.0240	0.0200
13	10.406	ALPHA-CHLORDANE	234583	V	32622	0.0251	0.0200
14	10.855	P,P'-DDE	323034	B	43934	0.0289	0.0400
15	14.105	ENDOSULFAN B	389771	B	49894	0.0036	0.0400
16	15.602	ENDRIN ALDEHYDE	284953	B	27921	-0.0096	0.0400
18	16.622	ENDOSULFAN SULFATE	344332	B	54664	-0.0055	0.0400
20	17.728	ENDRIN KETONE	366688	B	63134	-0.0053	0.0400

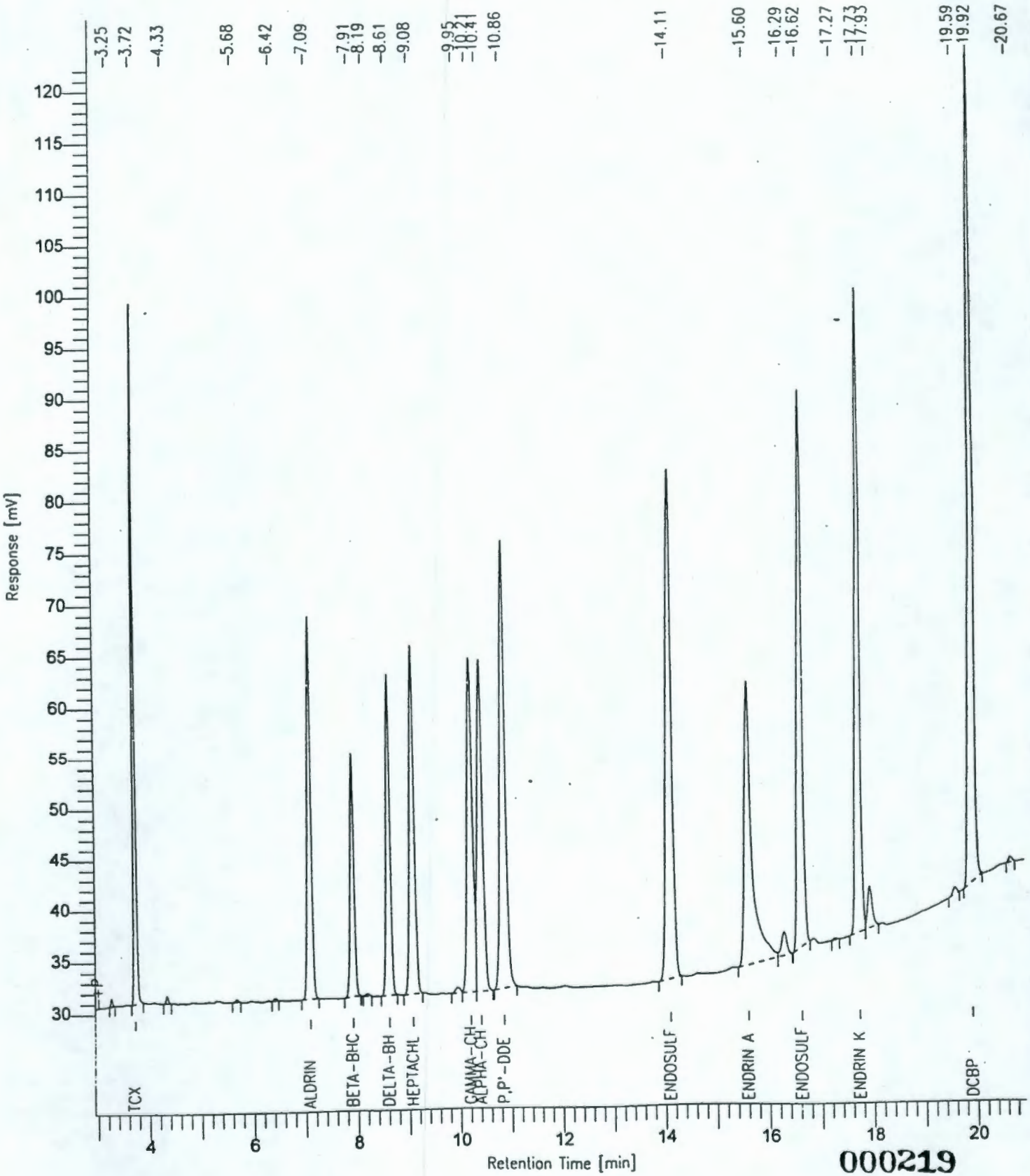
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
23	19.915	DCBP	512864	B	81609	0.0112	0.0400
			3584680		582877		0.3800

9513355.1313

Chromatogram

Sample Name : ICV*INDBM*1
FileName : C:\TC4\HP58909\557B018.RAW
Method :
Start Time : 2.93 min End Time : 20.94 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/10/94 03:47 PM
Time of Injection: 5/4/94 04:57 AM
Low Point : 29.43 mV High Point : 122.46 mV
Plot Scale: 93.0 mV



000219

Software Version: 4.0<1C29>
Sample Name : ICV*INDAH*1 Time : 5/10/94 03:47 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 05:40 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B019.RAW
Result File : C:\TC4\HP58909\557B019.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B019.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B019.RST
Calib Method : C:\TC4\HP58909\557BAH from C:\TC4\HP58909\557B019.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 27

DATA REPORT

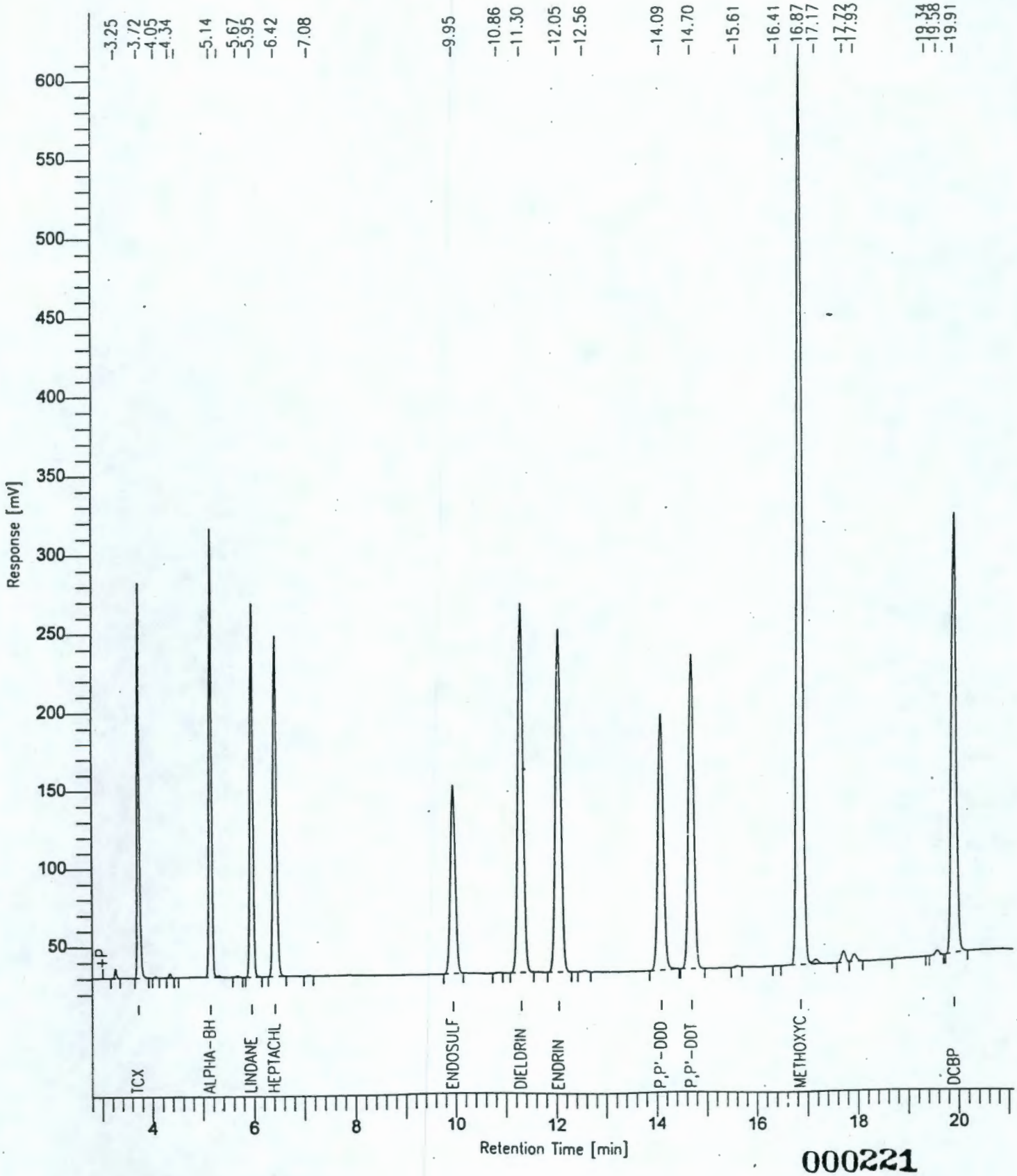
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.719	TCX	728390	B	253672	0.0411	0.0800
6	5.142	ALPHA-BHC	975697	B	285331	0.0178	0.0800
9	5.951	LINDANE	951291	B	237940	0.0104	0.0800
10	6.415	HEPTACHLOR	1051005	B	217417	0.0368	0.0800
12	9.953	ENDOSULFAN A	825350	B	121048	0.0188	0.0800
14	11.304	DIELDRIN	1716438	B	236737	0.0136	0.1600
15	12.052	ENDRIN	1650051	B	219283	0.0058	0.1600
17	14.093	P,P'-DDD	1248503	B	164499	-0.0029	0.1600
18	14.703	P,P'-DDT	1484678	B	201559	0.0081	0.1600
21	16.865	METHOXYCHLOR	3978888	B	578613	-0.0001	0.8000
27	19.913	DCBP	1823640	B	281247	0.0082	0.1600

9513355.1315

Chromatogram

Sample Name : ICV*INDAH*1
FileName : C:\TC4\HP58909\557B019.RAW
Method :
Start Time : 2.79 min End Time : 21.09 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #:
Date : 5/10/94 03:47 PM
Time of Injection: 5/4/94 05:40 AM
Low Point : 14.22 mV High Point : 614.17 mV
Plot Scale: 600.0 mV



000221

9513355.1316

Software Version: 4.0<1C29>
Sample Name : ICV*INDBH*1 Time : 5/10/94 03:48 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 06:22 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B020.RAW
Result File : C:\TC4\HP58909\557B020.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B020.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B020.RST
Calib Method : C:\TC4\HP58909\557BBH from C:\TC4\HP58909\557B020.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 32

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.718	TCX	733757	B	255411	0.0253	0.0800
11	7.091	ALDRIN	867114	B	172065	0.0209	0.0800
12	7.910	BETA-BHC	508705	B	96687	-0.0268	0.0800
14	8.613	DELTA-BHC	851448	B	163481	-0.0222	0.0800
15	9.078	HEPTACHLOR EPOXIDE	895827	B	141313	0.0128	0.0800
18	10.208	GAMMA-CHLORDANE	941911	V	131029	0.0051	0.0800
19	10.405	ALPHA-CHLORDANE	943758	V	131985	0.0068	0.0800
20	10.856	P,P'-DDE	1559231	B	217012	0.0161	0.1600
23	14.106	ENDOSULFAN B	1618217	B	209463	-0.0023	0.1600
25	15.604	ENDRIN ALDEHYDE	1096229	B	108084	-0.0118	0.1600
27	16.622	ENDOSULFAN SULFATE	1447794	B	225160	-0.0097	0.1600
29	17.730	ENDRIN KETONE	1611873	B	268971	-0.0060	0.1600

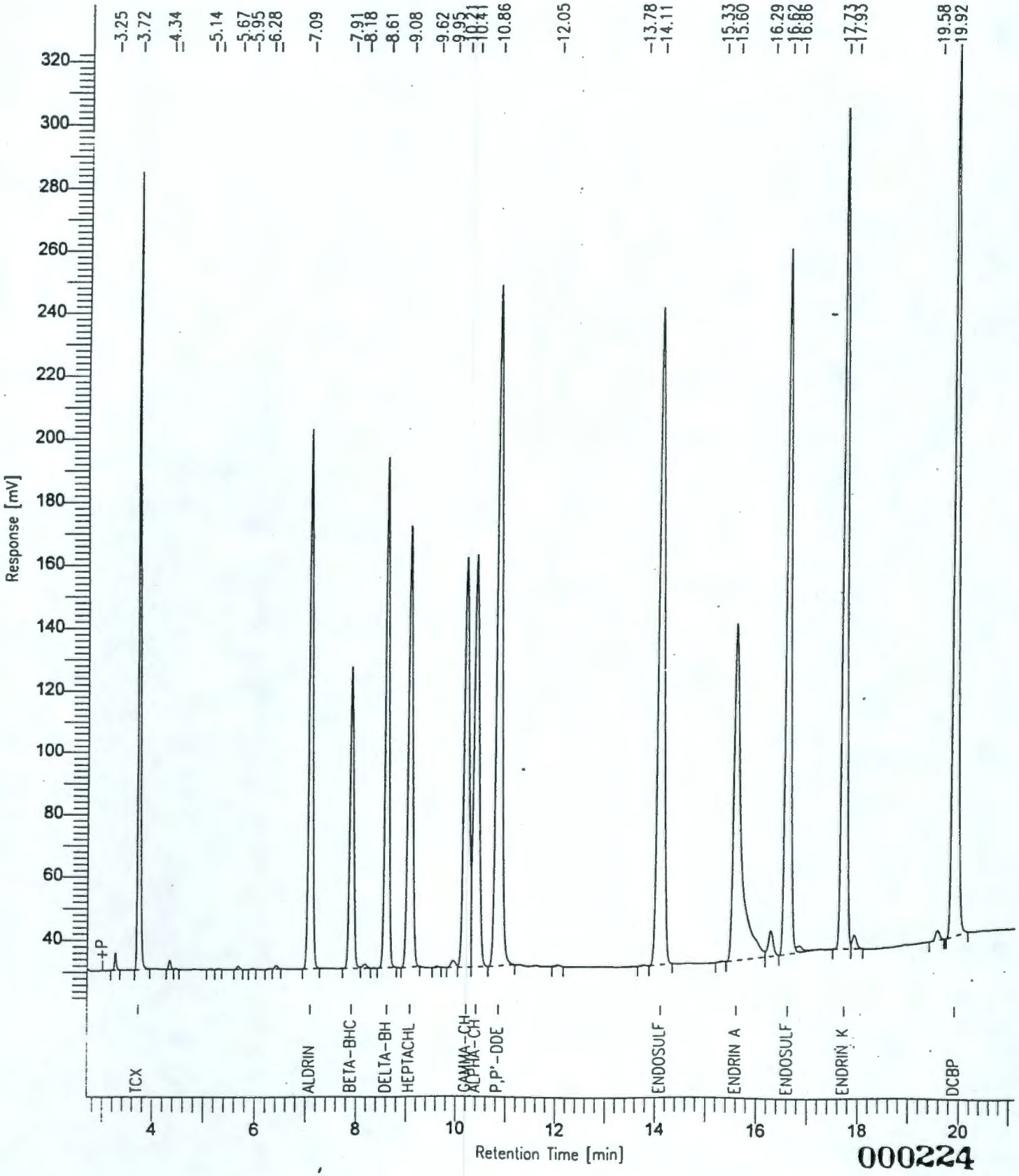
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
32	19.916	DCBP	1828653	B	283309	0.0136	0.1600
			14904516		2403968		1.5200

9513355.1318

Chromatogram

Sample Name : ICV*INDBH*1
FileName : C:\TC4\HP58909\557B020.RAW
Method :
Start Time : 2.69 min End Time : 21.13 min
Scale Factor: 0.0 Plot Offset: 20 mV

Sample #:
Date : 5/10/94 03:48 PM
Time of Injection: 5/4/94 06:22 AM
Low Point : 20.17 mV High Point : 323.09 mV
Plot Scale: 302.9 mV



000224

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*1 Time : 5/10/94 03:57 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 07:04 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B021.RAW
Result File : C:\TC4\HP58909\557B021.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B021.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B021.RST
Calib Method : C:\TC4\HP58909\557B from C:\TC4\HP58909\557B021.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 10009.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 8

DATA REPORT

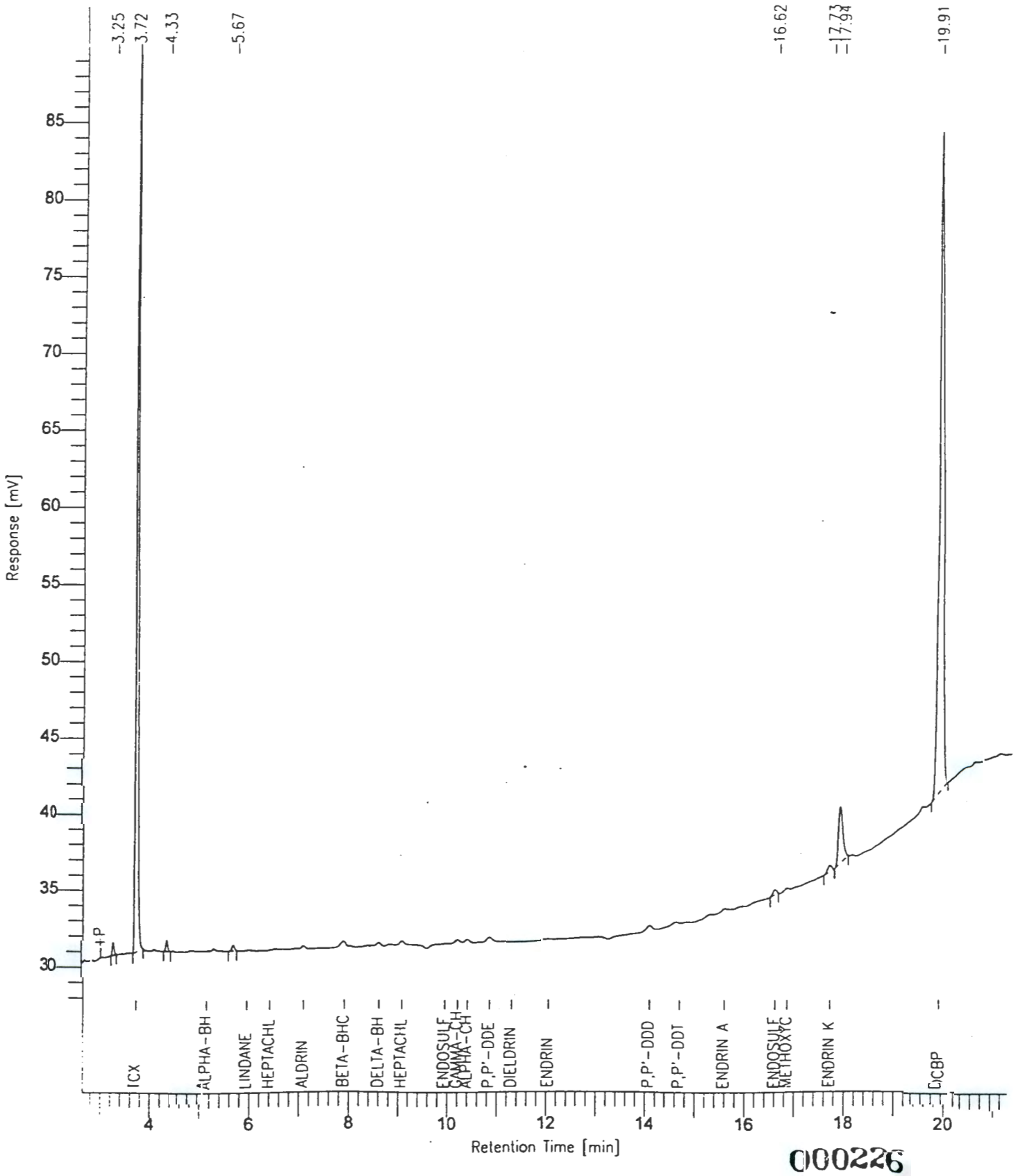
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.718	TCX	185431	B	68327	0.0082
7	17.937		22895	B	3700	-------
8	19.914	DCBP	263320	B	43085	-0.0007
			471646		115112	

9513355.1320

Chromatogram

Sample Name : MB*PIBLK*1
FileName : C:\TC4\HP58909\557B021.RAW
Method :
Start Time : 2.64 min End Time : 21.38 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 5/10/94 03:49 PM
Time of Injection: 5/4/94 07:04 AM
Low Point : 27.87 mV High Point : 89.45 mV
Plot Scale: 61.6 mV



000226

Software Version: 4.0<1C29>
Sample Name : CK*PEM*2 Time : 5/10/94 03:50 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 07:47 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B022.RAW
Result File : C:\TC4\HP58909\557B022.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B022.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B022.RST
Calib Method : C:\TC4\HP58909\557BPEM from C:\TC4\HP58909\557B022.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 18

DATA REPORT

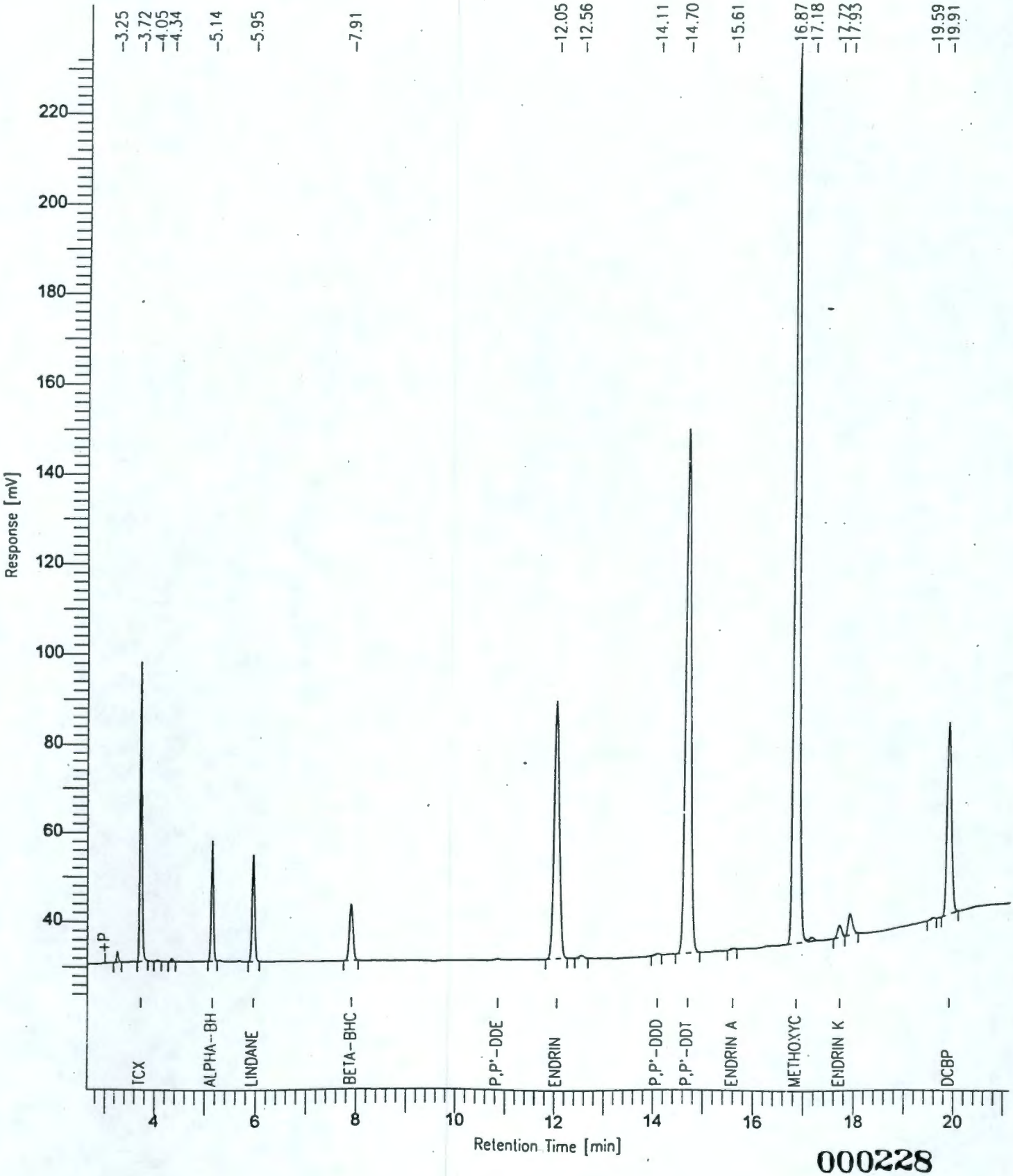
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.718	TCX	182066	B	67134	-0.0088
5	5.138	ALPHA-BHC	87298	B	27215	-0.0456
6	5.946	LINDANE	90279	B	23911	-0.0260
7	7.906	BETA-BHC	63962	B	12517	-0.0553
8	12.049	ENDRIN	434225	B	57702	-0.0046
10	14.106	P,P'-DDD	2011	B	287	0.1053
11	14.703	P,P'-DDT	849311	B	117090	0.0127
12	15.610	ENDRIN ALDEHYDE	1880	B	296	0.0513
13	16.866	METHOXYCHLOR	1322602	B	198358	0.0033
15	17.724	ENDRIN KETONE	15242	B	2723	-0.0219
18	19.913	DCBP	263356	B	43411	-0.0066

9513355.1322

Chromatogram

Sample Name : CK*PEM*2
FileName : C:\TC4\HP58909\557B022.RAW
Method :
Start Time : 2.64 min End Time : 21.13 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #:
Date : 5/10/94 03:50 PM
Time of Injection: 5/4/94 07:47 AM
Low Point : 23.35 mV High Point : 233.82 mV
Plot Scale: 210.5 mV



000228

9513355.1323

Software Version: 4.0<1C29>
Sample Name : HEXANE
Sample Number:
Operator : VIC

Time : 5/10/94 04:11 PM
Study :

Instrument : HP58909
AutoSampler :
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 12:43 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B029.RAW
Result File : C:\TC4\HP58909\557B029.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B029.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B029.RST
Calib Method : C:\TC4\HP58909\557B from C:\TC4\HP58909\557B029.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 10009.000000
Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 4

DATA REPORT

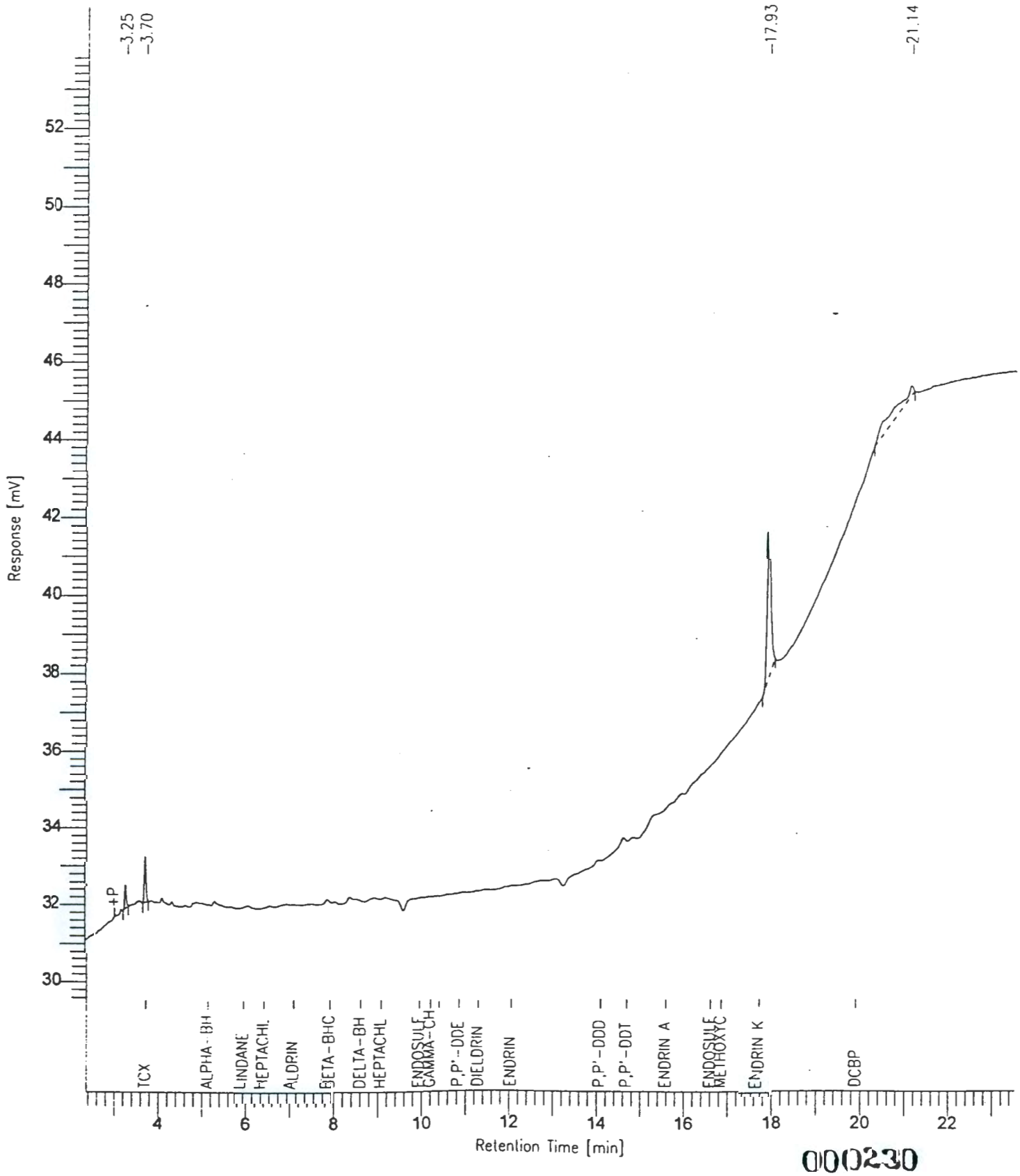
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
3	17.932		22786	B	3776	-------
4	21.137		12504	B	251	-------
			35289		4027	

9513355.1524

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\557B029.RAW
Method :
Start Time : 2.36 min End Time : 23.53 min
Scale Factor: 0.0 Plot Offset: 30 mV

Sample #:
Date : 5/10/94 04:11 PM
Time of Injection: 5/4/94 12:43 PM
Low Point : 29.55 mV High Point : 53.89 mV
Plot Scale: 24.3 mV



000230

9513355.1525

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*2 Time : 5/10/94 04:12 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 01:25 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B030.RAW
Result File : C:\TC4\HP58909\557B030.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B030.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B030.RST
Calib Method : C:\TC4\HP58909\557B from C:\TC4\HP58909\557B030.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 10009.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 6

DATA REPORT

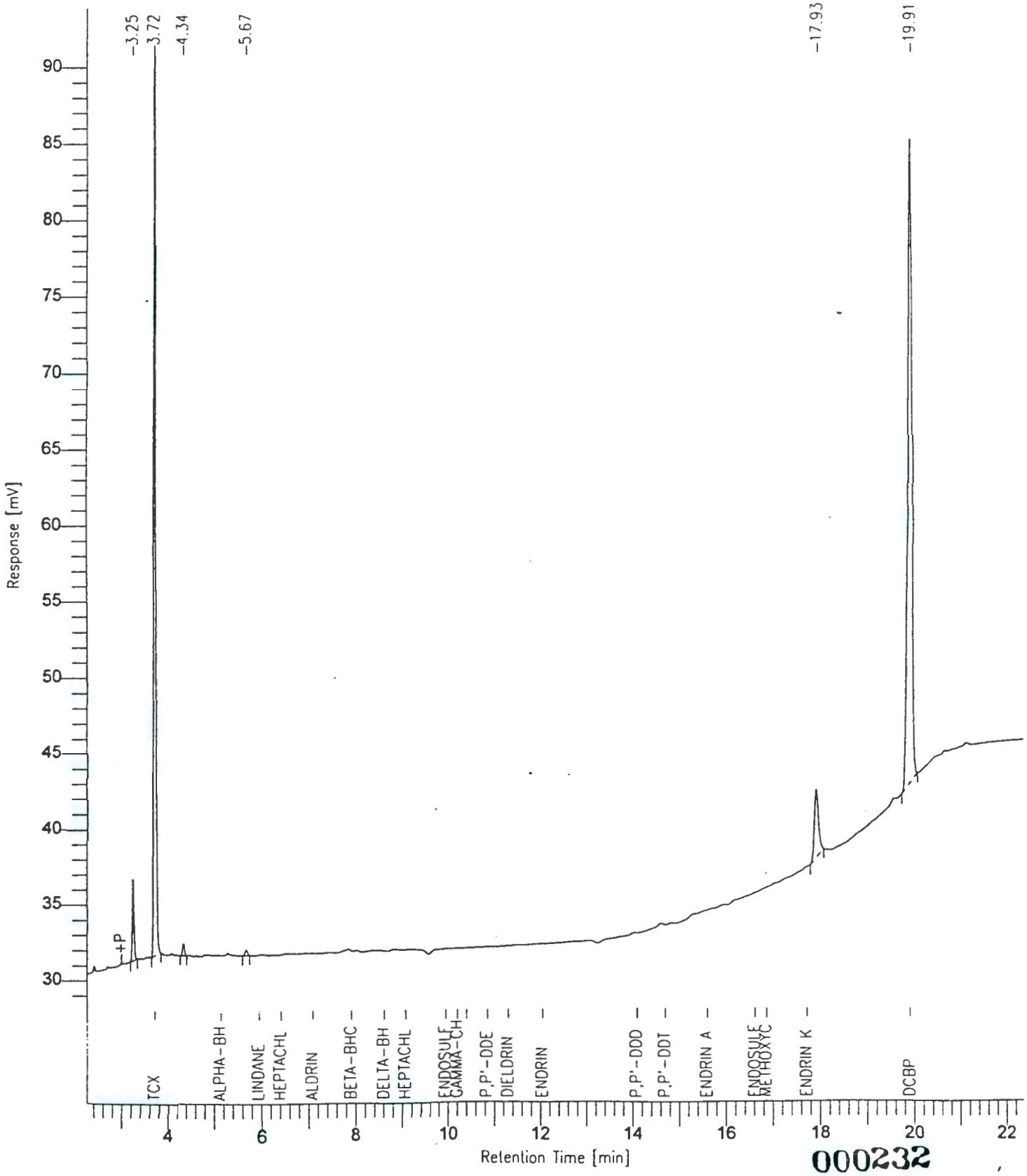
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.253		13937	B	5443	-------
2	3.718	TCX	185356	B	68074	-0.0020
5	17.932		27886	B	4512	-------
6	19.913	DCBP	259814	B	42576	-0.0072
			486992		120605	

9513355.1326

Chromatogram

Sample Name : MB*PIBLK*2
FileName : C:\TC4\HP58909\557B030.RAW
Method :
Start Time : 2.26 min End Time : 22.38 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 5/10/94 04:12 PM
Time of Injection: 5/4/94 01:25 PM
Low Point : 28.05 mV High Point : 90.78 mV
Plot Scale: 62.7 mV



000232

9513355.1327

Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*2 Time : 5/10/94 04:23 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 02:08 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B031.RAW
Result File : C:\TC4\HP58909\GEDIT.RST
Inst Method : HP58909 from C:\TC4\HP58909\GEDIT.RST
Proc Method : C:\TC4\HP58909\557BAM.MTH
Calib Method : C:\TC4\HP58909\557BAM.MTH
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 19

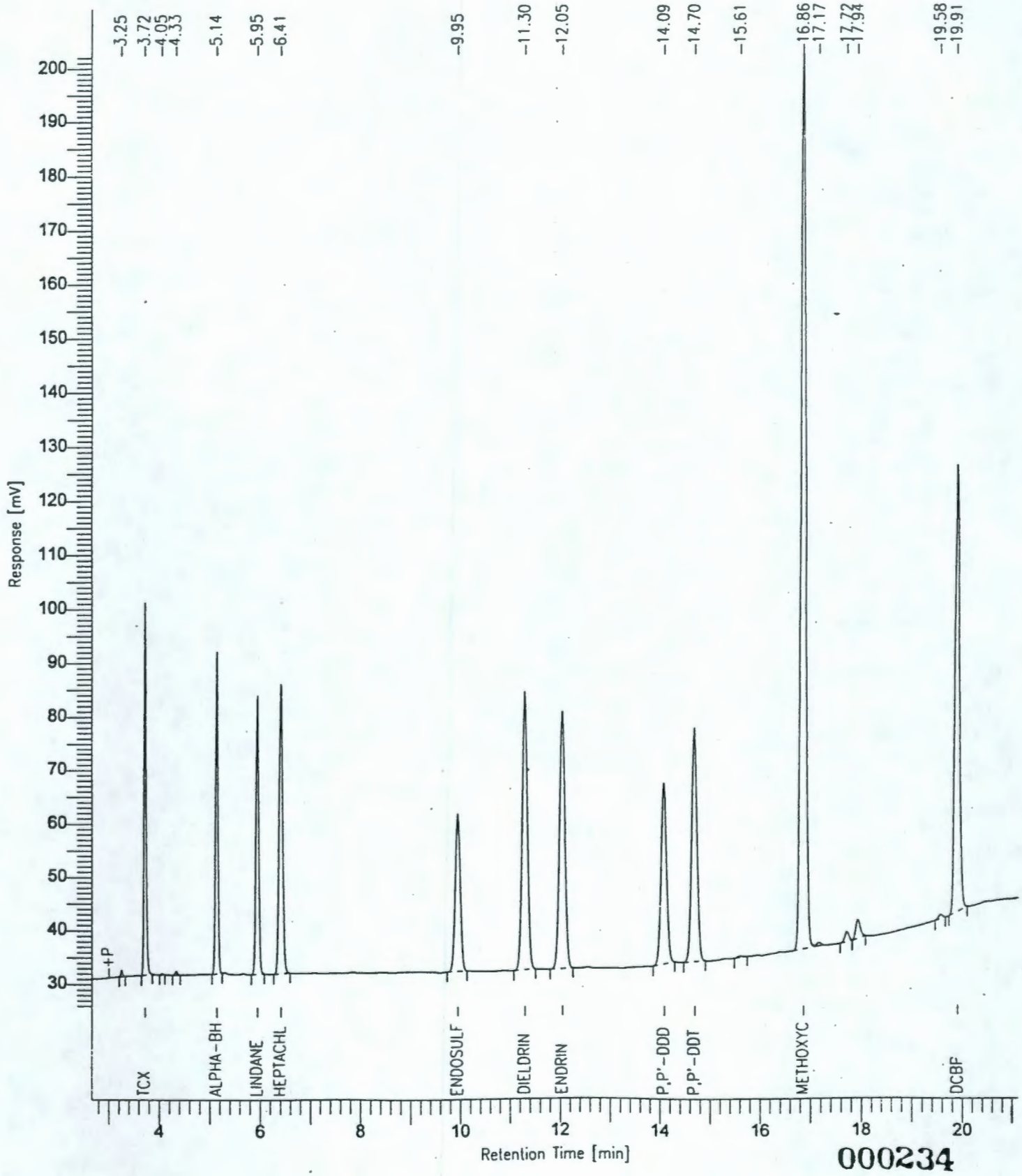
DATA REPORT

Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
2	3.717	TCX	190014	B	69489	0.0208	0.0200
5	5.139	ALPHA-BHC	194668	B	60679	-0.0127	0.0200
6	5.947	LINDANE	199628	B	52385	-0.0203	0.0200
7	6.411	HEPTACHLOR	262864	B	54239	-0.0005	0.0200
8	9.949	ENDOSULFAN A	204776	B	29406	0.0077	0.0200
9	11.299	DIELDRIN	384766	B	52065	-0.0026	0.0400
10	12.048	ENDRIN	371202	B	48291	0.0035	0.0400
11	14.088	P,P'-DDD	261784	B	33889	-0.0058	0.0400
12	14.698	P,P'-DDT	320574	B	43736	0.0030	0.0400
14	16.862	METHOXYCHLOR	1117812	B	167416	-0.0018	0.2000
19	19.912	DCBP	520762	B	83523	0.0081	0.0400

Chromatogram

Sample Name : CCS*INDAM*2
FileName : C:\TC4\HP58909\557B031.RAW
Method : 557BAM.MTH
Start Time : 2.66 min End Time : 21.14 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #:
Date : 5/10/94 04:23 PM
Time of Injection: 5/4/94 02:08 PM
Low Point : 25.84 mV High Point : 202.29 mV
Plot Scale: 176.5 mV



Software Version: 4.0<1C29>
Sample Name : CCS*INDBM*2 Time : 5/10/94 04:29 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 02:50 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B032.RAW
Result File : C:\TC4\HP58909\GEDIT.RST
Inst Method : HP58909 from C:\TC4\HP58909\GEDIT.RST
Proc Method : C:\TC4\HP58909\557BBM.MTH
Calib Method : C:\TC4\HP58909\557BBM.MTH
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.718	TCX	188110	B	69695	0.0219	0.0200
6	7.087	ALDRIN	191472	B	38224	0.0114	0.0200
7	7.904	BETA-BHC	125066	B	24312	-0.0484	0.0200
9	8.607	DELTA-BHC	169934	B	32539	-0.0343	0.0200
10	9.073	HEPTACHLOR EPOXIDE	223218	B	35083	-0.0024	0.0200
12	10.204	GAMMA-CHLORDANE	239592	V	33483	-0.0004	0.0200
13	10.400	ALPHA-CHLORDANE	240253	V	33414	-0.0033	0.0200
14	10.848	P,P'-DDE	332197	B	45947	-0.0018	0.0400
15	14.101	ENDOSULFAN B	395727	B	51022	-0.0116	0.0400
16	15.598	ENDRIN ALDEHYDE	250662	B	28103	-0.0241	0.0400
18	16.619	ENDOSULFAN SULFATE	350536	B	55936	-0.0152	0.0400
19	17.725	ENDRIN KETONE	372440	B	65132	-0.0151	0.0400

Result File : GEDIT.RST, Printed On 5/10/94 04:29 PM

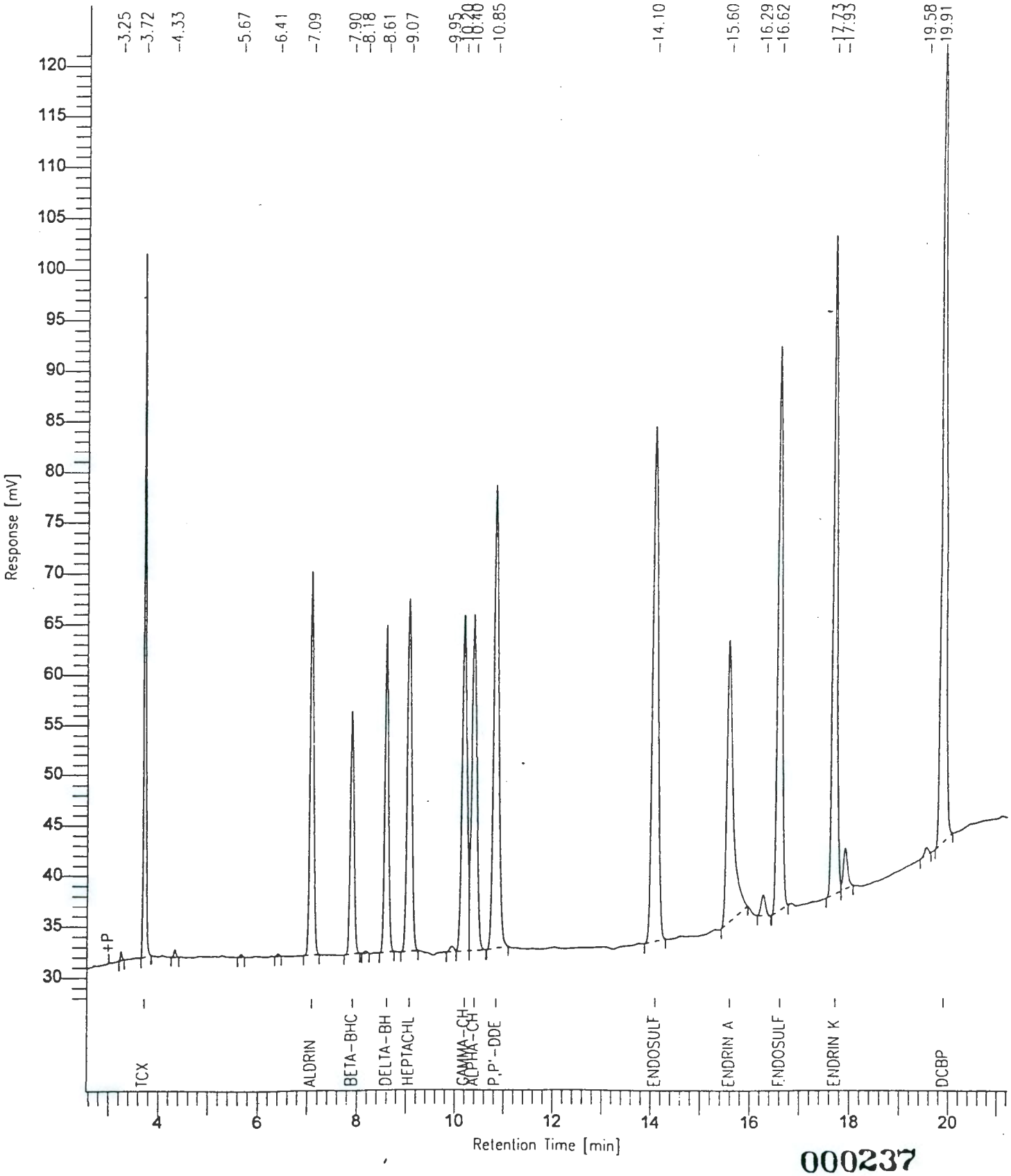
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
22	19.912	DCBP	522510	B	84417	0.0043	0.0400
			3601718		597308		0.3800

9513355.1351

Chromatogram

Sample Name : CCS*INDBM*2
FileName : C:\TC4\HP58909\557B032.RAW
Method : 557BBM.MTH
Start Time : 2.56 min End Time : 21.24 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 5/10/94 04:29 PM
Time of Injection: 5/4/94 02:50 PM
Low Point : 27.96 mV High Point : 121.31 mV
Plot Scale: 93.4 mV



000237

Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 5/11/94 02:22 PM
Sample Number:
Study :
Operator : VIC

Instrument : HP58909
Channel : B
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 5/4/94 07:46 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B039.RAW
Result File : C:\TC4\HP58909\557B039.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B039.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B039.RST
Calib Method : C:\TC4\HP58909\557B from C:\TC4\HP58909\557B039.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul
Area Reject : 10009.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 33
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 4

DATA REPORT

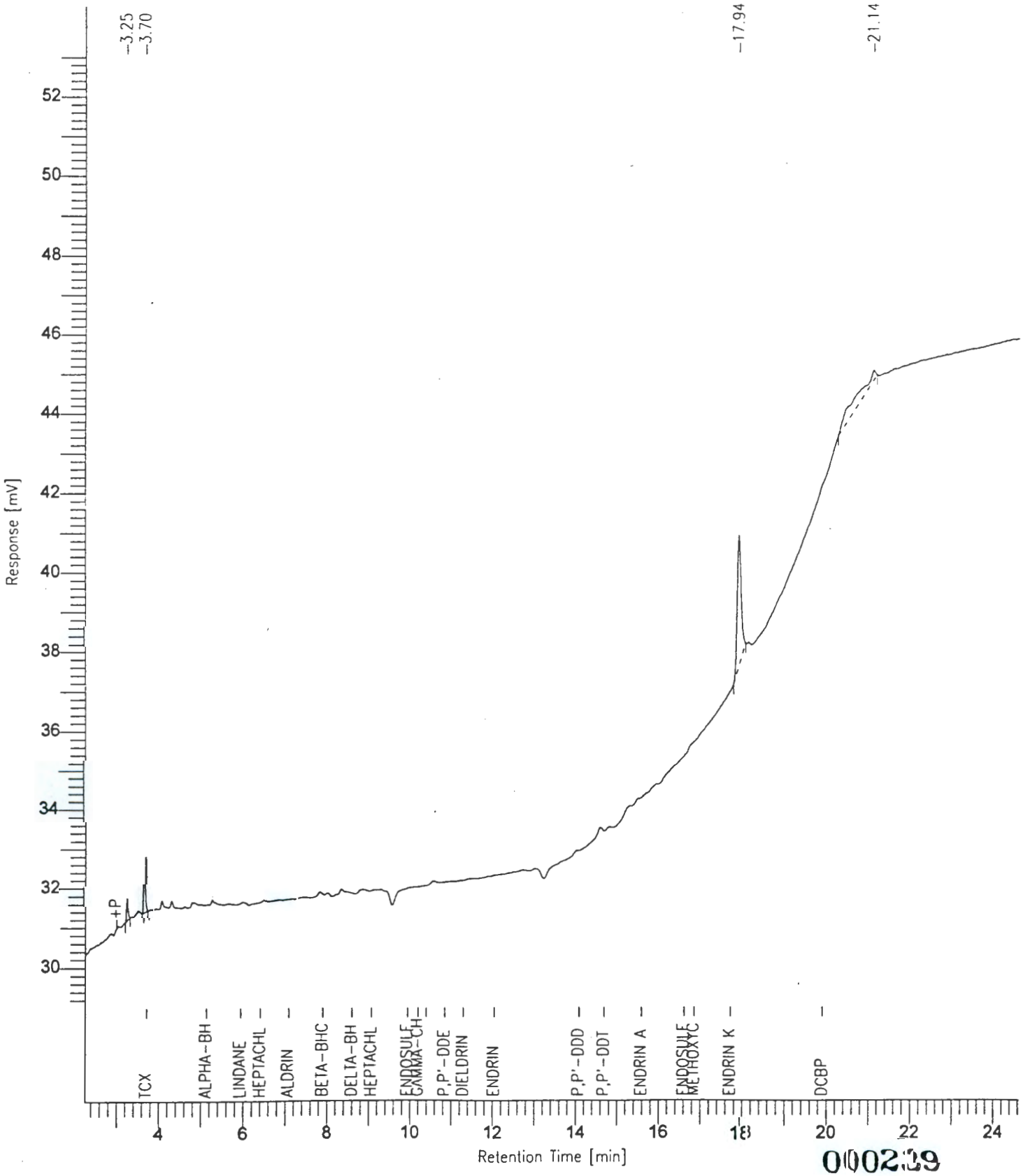
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
3	17.936		21404	B	3291	-------
4	21.144		13109	B	242	-------
			34513		3533	

9513356.1333

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\557B039.RAW
Method :
Start Time : 2.26 min End Time : 24.64 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/11/94 02:22 PM
Time of Injection: 5/4/94 07:46 PM
Low Point : 29.01 mV High Point : 53.08 mV
Plot Scale: 24.1 mV



000239

Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 5/11/94 02:23 PM
Sample Number:
Study :
Operator : VIC

Instrument : HP58909
Channel : B
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 5/4/94 09:11 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B041.RAW
Result File : C:\TC4\HP58909\557B041.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B041.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B041.RST
Calib Method : C:\TC4\HP58909\557B from C:\TC4\HP58909\557B041.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul
Area Reject : 10009.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 33
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 5

DATA REPORT

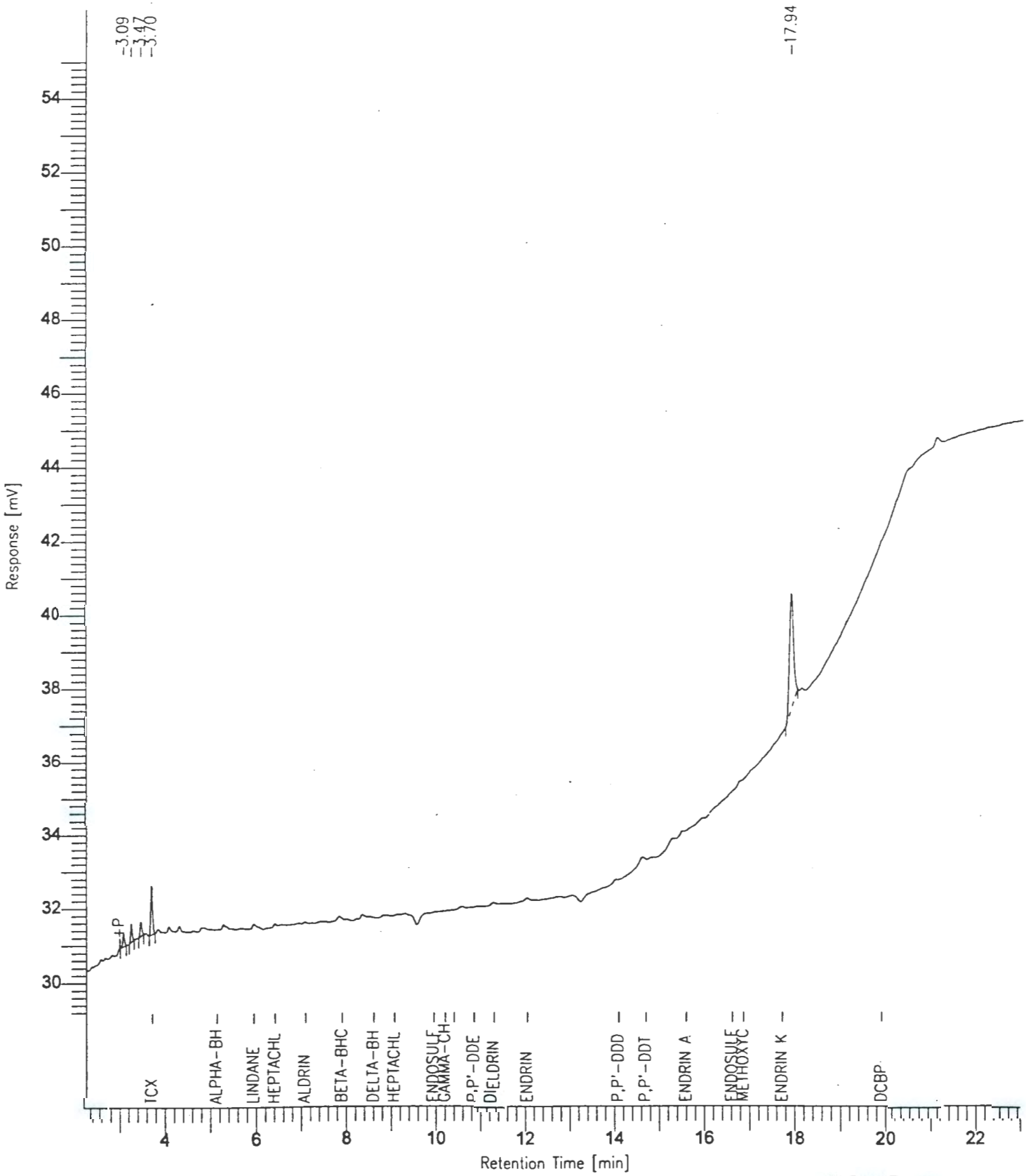
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
5	17.935		19594	B	3132	-------
			19594		3132	

9513355.1335

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\557B041.RAW
Method :
Start Time : 2.26 min End Time : 23.07 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/11/94 02:23 PM
Time of Injection: 5/4/94 09:11 PM
Low Point : 29.18 mV High Point : 55.15 mV
Plot Scale: 26.0 mV



000241

Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 5/10/94 04:14 PM
Sample Number:
Study :
Operator : VIC

Instrument : HP58909
Channel : B
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 5/4/94 10:36 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B043.RAW
Result File : C:\TC4\HP58909\557B043.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B043.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B043.RST
Calib Method : C:\TC4\HP58909\557B from C:\TC4\HP58909\557B043.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul
Area Reject : 10009.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 33
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 7

DATA REPORT

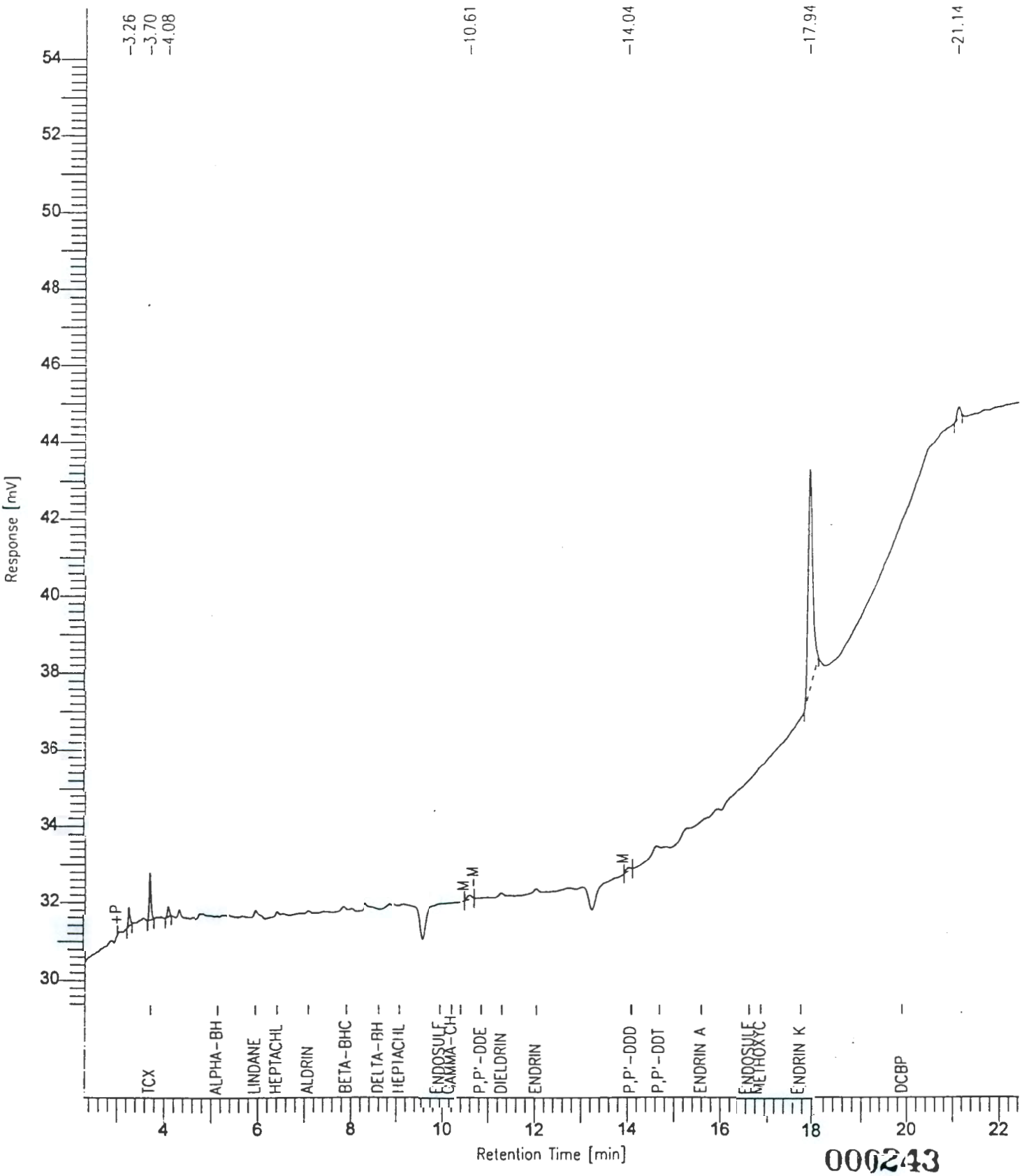
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
6	17.937		38341	B	5712	-------
			38341		5712	

9513355.1357

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\557B043.RAW
Method :
Start Time : 2.31 min End Time : 22.43 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/10/94 04:14 PM
Time of Injection: 5/4/94 10:36 PM
Low Point : 29.38 mV High Point : 54.10 mV
Plot Scale: 24.7 mV



000243

9513355.1538

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*3 Time : 5/10/94 04:14 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 11:18 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B044.RAW
Result File : C:\TC4\HP58909\557B044.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B044.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B044.RST
Calib Method : C:\TC4\HP58909\557B from C:\TC4\HP58909\557B044.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 10009.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 7

DATA REPORT

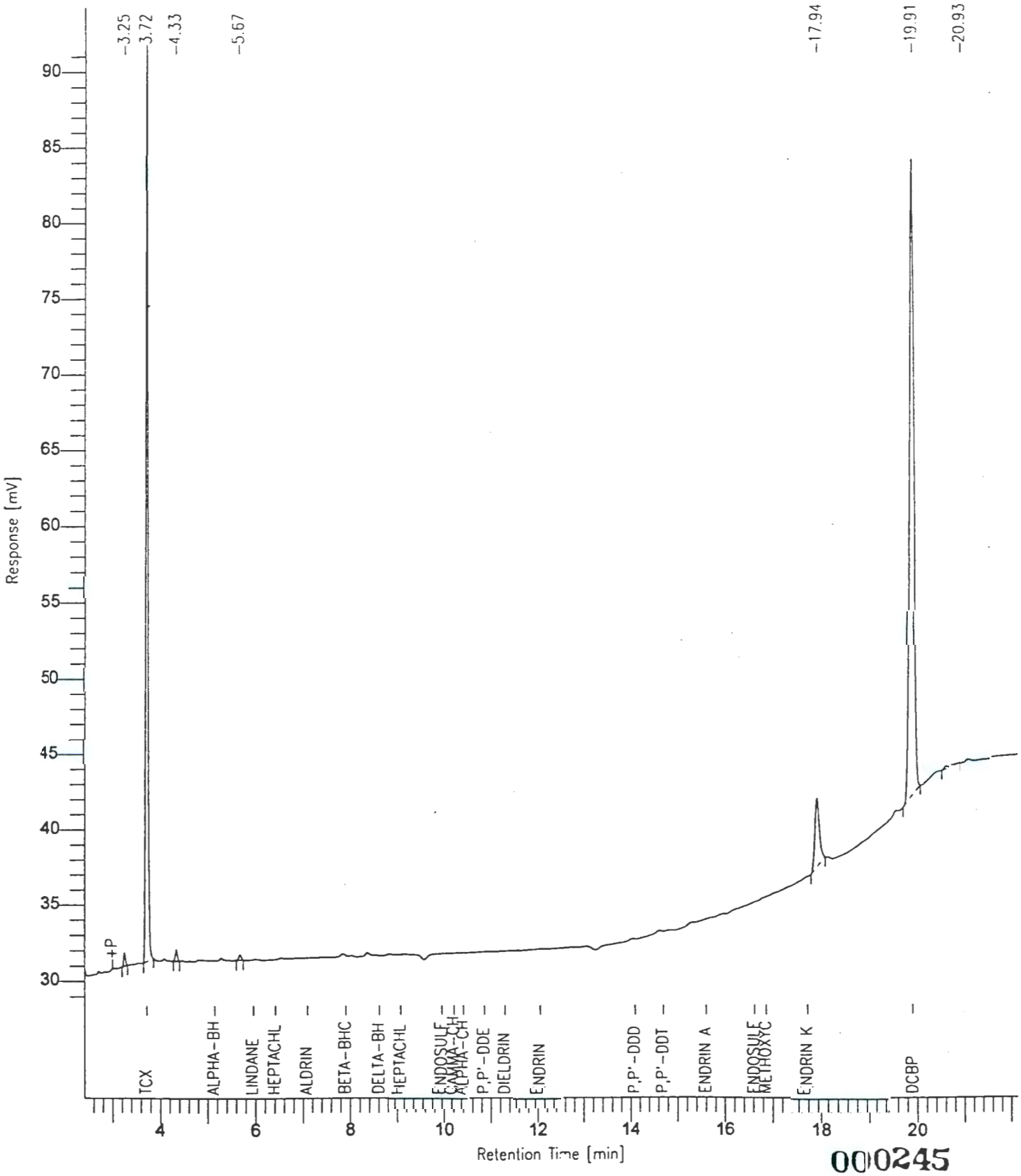
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.718	TCX	183726	B	66863	-0.0075
5	17.935		29704	B	4582	-------
6	19.913	DCBP	259803	B	42246	-0.0072
			473233		113691	

9513355.1339

Chromatogram

Sample Name : MB*PIBLK*3
FileName : C:\TC4\HP58909\557B044.RAW
Method :
Start Time : 2.41 min End Time : 22.14 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 5/10/94 04:14 PM
Time of Injection: 5/4/94 11:18 PM
Low Point : 28.44 mV High Point : 91.11 mV
Plot Scale: 62.7 mV



000245

Software Version: 4.0<1C29>
Sample Name : CK*PEM*3 Time : 5/10/94 04:18 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/5/94 12:00 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B045.RAW
Result File : C:\TC4\HP58909\557B045.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B045.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B045.RST
Calib Method : C:\TC4\HP58909\557BPEM from C:\TC4\HP58909\557B045.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 18

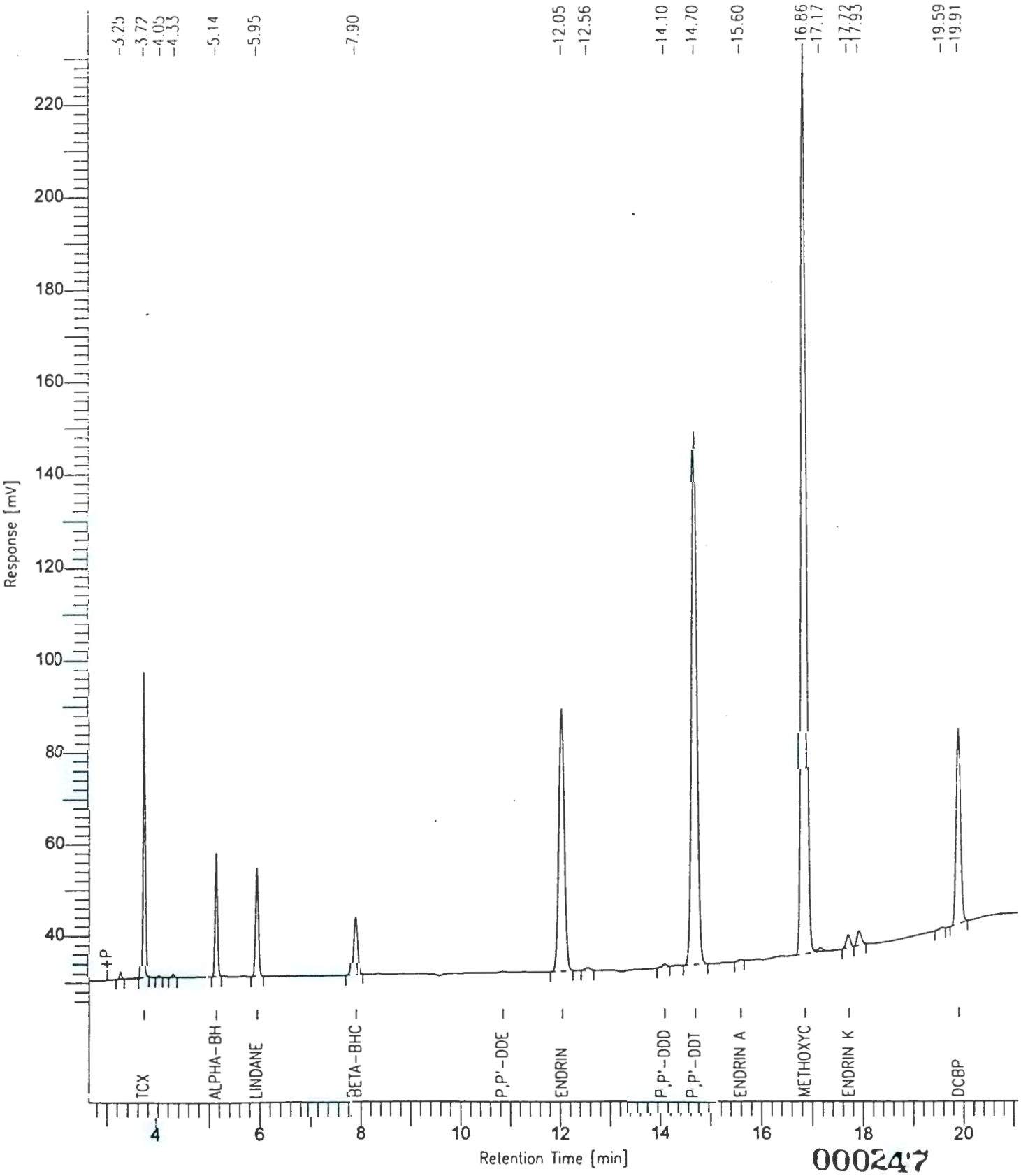
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.717	TCX	181248	B	66400	-0.0152
5	5.137	ALPHA-BHC	87350	B	27095	-0.0537
6	5.946	LINDANE	90206	B	23644	-0.0399
7	7.904	BETA-BHC	63870	B	12364	-0.0745
8	12.048	ENDRIN	431637	B	57089	-0.0198
10	14.100	P,P'-DDD	3862	B	529	0.0663
11	14.699	P,P'-DDT	844030	B	115153	-0.0148
12	15.602	ENDRIN ALDEHYDE	1819	B	295	0.0005
13	16.862	METHOXYCHLOR	1306398	B	195336	-0.0187
15	17.720	ENDRIN KETONE	16036	B	2839	-0.0439
18	19.912	DCBP	260993	B	42605	-0.0111

Chromatogram

Sample Name : CK*PEM*3
FileName : C:\TC4\HP58909\557B045.RAW
Method :
Start Time : 2.64 min End Time : 21.09 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #:
Date : 5/10/94 04:18 PM
Time of Injection: 5/5/94 12:00 AM
Low Point : 24.31 mV High Point : 230.46 mV
Plot Scale: 206.1 mV



9513355.1342

RAW QC DATA

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK1

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Matrix: (soil/water) SOIL Lab Sample ID: MB*QC*1

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

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

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/03/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3	U
742-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5566-34-7	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	67.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

Software Version: 4.0<1C29>
Sample Name : MB*QC*1 5-3-94 PBLK1 Time : 5/11/94 01:42 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 05:39 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A036.RAW
Result File : C:\TC4\HP58909\557A036.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A036.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A036.RST
Calib Method : C:\TC4\HP58909\557A from C:\TC4\HP58909\557A036.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5963.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 28

DATA REPORT

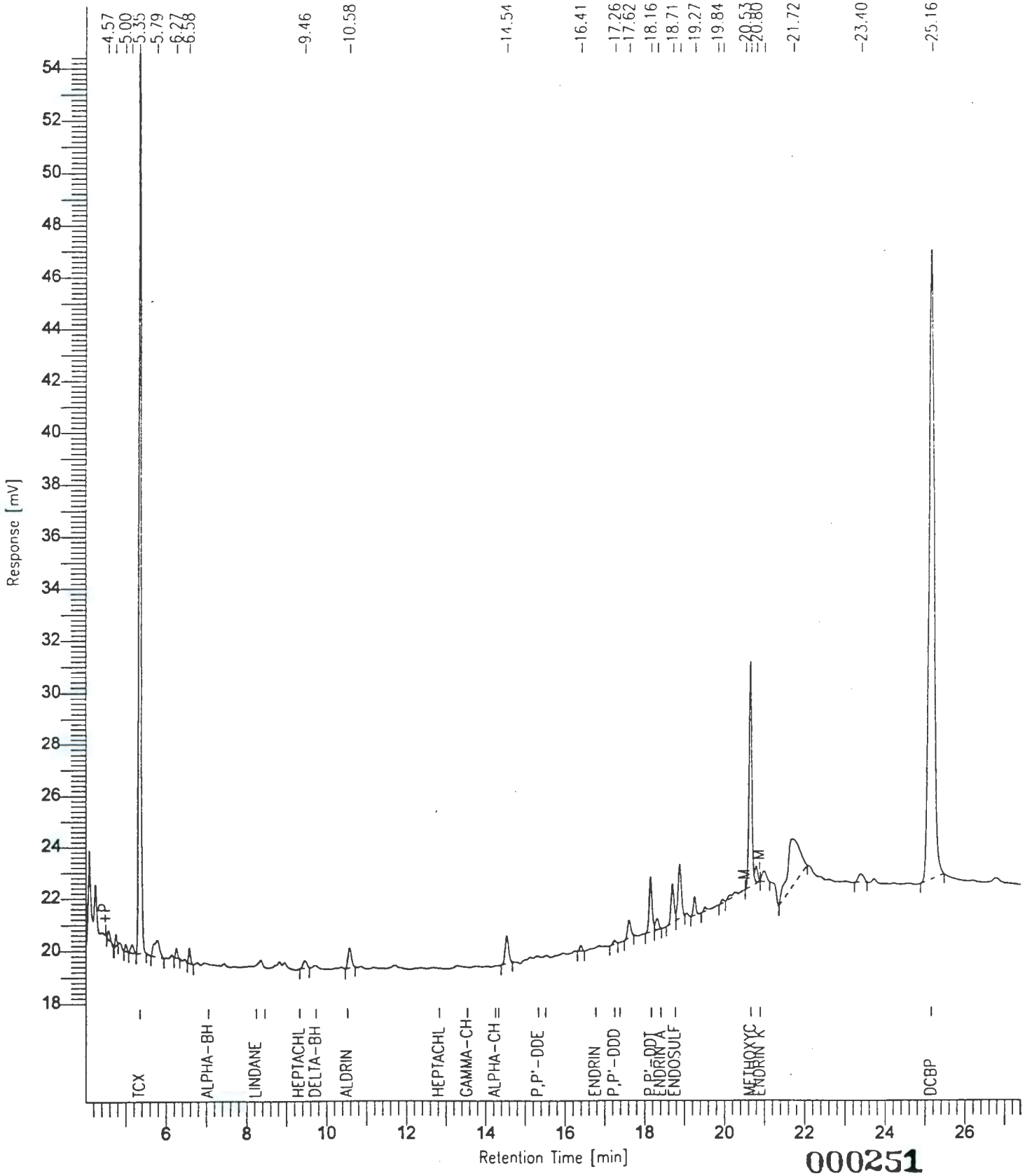
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
5	5.353	TCX	139479	B	40605	-0.0049
6	5.787		6418	B	646	-------
11	14.537		6396	B	1060	-------
15	18.156	P,P'-DDT	11118	B	2175	-0.0998
17	18.707	ENDOSULFAN SULFATE	8163	B	1525	-0.3613
18	18.890		12393	V	2118	-------
23	20.658	METHOXYCHLOR	41944	*B	8781	-0.0284
26	21.721		39294	B	1831	-------
28	25.155	DCBP	217696	B	24303	-0.0124
			482902		83043	

9513555.1345

Chromatogram

Sample Name : MB*QC*1 5-3-94 PBLK1
FileName : C:\TC4\HP58909\557A036.RAW
Method :
Start Time : 4.01 min End Time : 27.41 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/11/94 01:42 PM
Time of Injection: 5/4/94 05:39 PM
Low Point : 17.81 mV High Point : 54.59 mV
Plot Scale: 36.8 mV



000251

9513355.1346

Software Version: 4.0<1C29>
Sample Name : MB*QC*1 5-3-94 PBLK1 Time : 5/11/94 02:20 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 06:21 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B037.RAW
Result File : C:\TC4\HP58909\557B037.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B037.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B037.RST
Calib Method : C:\TC4\HP58909\557B from C:\TC4\HP58909\557B037.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 10009.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 31

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.253		216118	B	62357	-------
3	3.717	TCX	294101	B	103926	-0.0135
5	4.323		15826	V	3867	-------
8	4.860		11214	B	2397	-------
14	7.847		16614	B	2481	-------
17	9.784		11090	B	1668	-------
18	14.018	P,P'-DDD NC	11871	*B	1815	-0.5203
19	14.762	P,P'-DDT BDL	24694	B	2439	0.4183
21	15.275		15990	V	1991	-------
23	16.859	METHOXYCHLOR BDL	93420	B	14686	-0.0340
24	17.017		32452	V	4961	-------
25	17.930		94508	B	14344	-------

000252

Result File : 557B037.RST, Printed On 5/11/94 02:20 PM

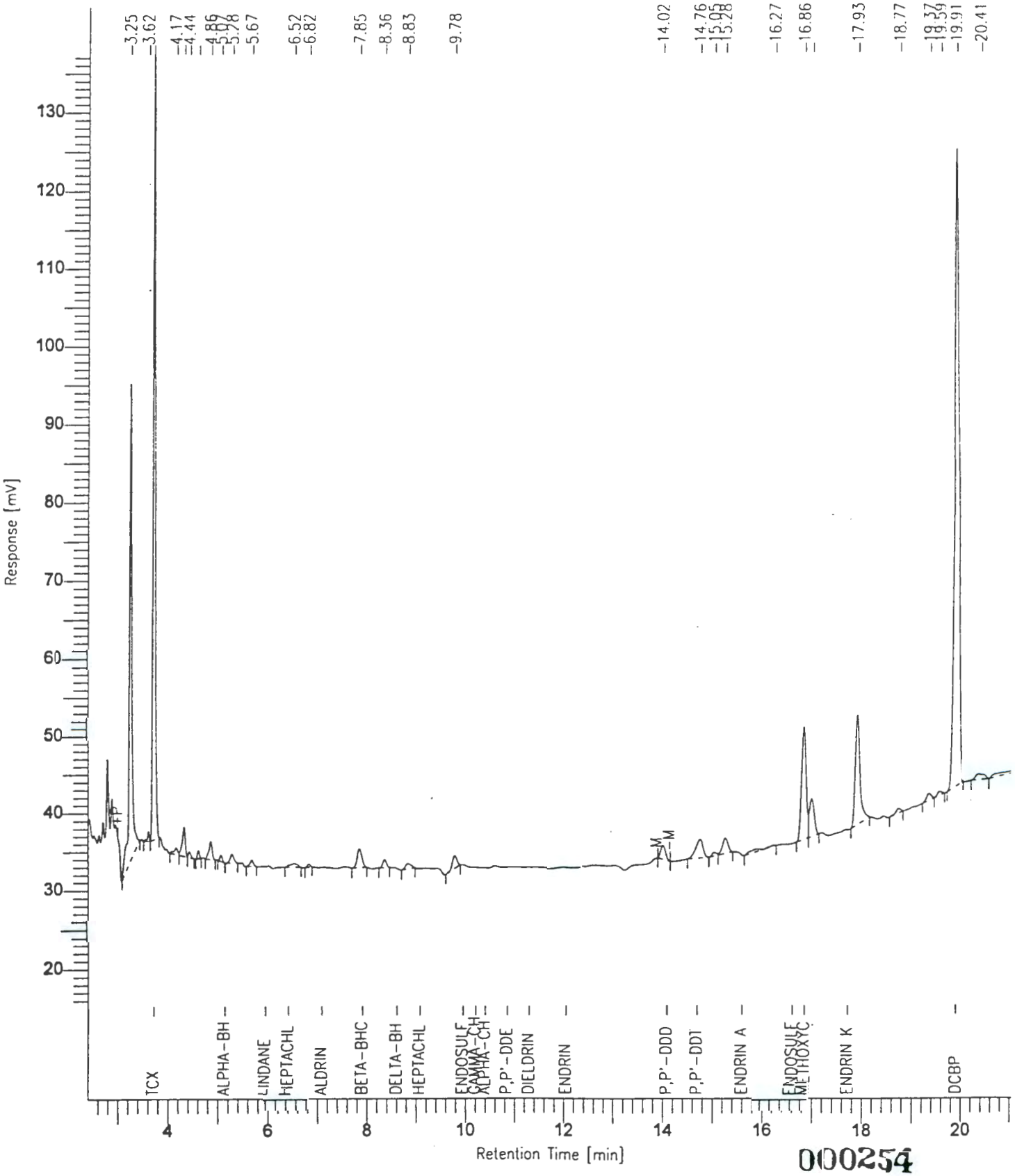
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
29	19.912	DCBP	515824	B	82157	-0.0078
31	21.261		22801	B	1016	-------
			1376523		300105	

9513555.1348

Chromatogram

Sample Name : MB*QC*1 5-3-94 PBLK1
FileName : C:\TC4\HP58909\557B037.RAW
Method :
Start Time : 2.40 min End Time : 21.06 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 5/11/94 02:20 PM
Time of Injection: 5/4/94 06:21 PM
Low Point : 15.29 mV High Point : 137.41 mV
Plot Scale: 122.1 mV



000254

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A1101007MS

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Matrix: (soil/water) SOIL Lab Sample ID: SPM1*CDMHNSS*21

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

% Moisture: 4 decanted: (Y/N) Y Date Received: 05/03/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/03/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	13.	
76-44-8	Heptachlor	12.	
309-00-2	Aldrin	11.	
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	25.	
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	26.	
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	27.	
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.5	U
742-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.7	U
5566-34-7	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	69.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	35.	U
11096-82-5	Aroclor-1260	35.	U

Software Version: 4.0<1C29>
Sample Name : SPM1*CDMHNSS*21 5-3-94 Time : 5/11/94 01:44 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 07:46 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A039.RAW
Result File : C:\TC4\HP58909\557A039.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A039.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A039.RST
Calib Method : C:\TC4\HP58909\557A from C:\TC4\HP58909\557A039.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5963.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 33

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	4.847		14354	B	2050	-------
5	5.353	TCX	136740	V	37987	-0.0052
6	5.777		9007	V	1045	-------
10	8.237	LINDANE	152177	B	33776	-0.0093
11	9.325	HEPTACHLOR	207522	B	34029	-0.0041
12	10.523	ALDRIN	137708	B	21648	-0.0197
15	15.517	DIELDRIN	311479	V	54323	-0.0011
17	16.779	ENDRIN	284239	B	54879	-0.0008
20	18.175	P,P'-DDT	316052	B	64482	0.0042
21	18.709	ENDOSULFAN SULFATE	9696	B	1804	-0.3506
22	18.890		14674	V	2514	-------
26	20.658	METHOXYCHLOR	19526	B	4433	-0.0310

Result File : 557A039.RST, Printed On 5/11/94 01:44 PM

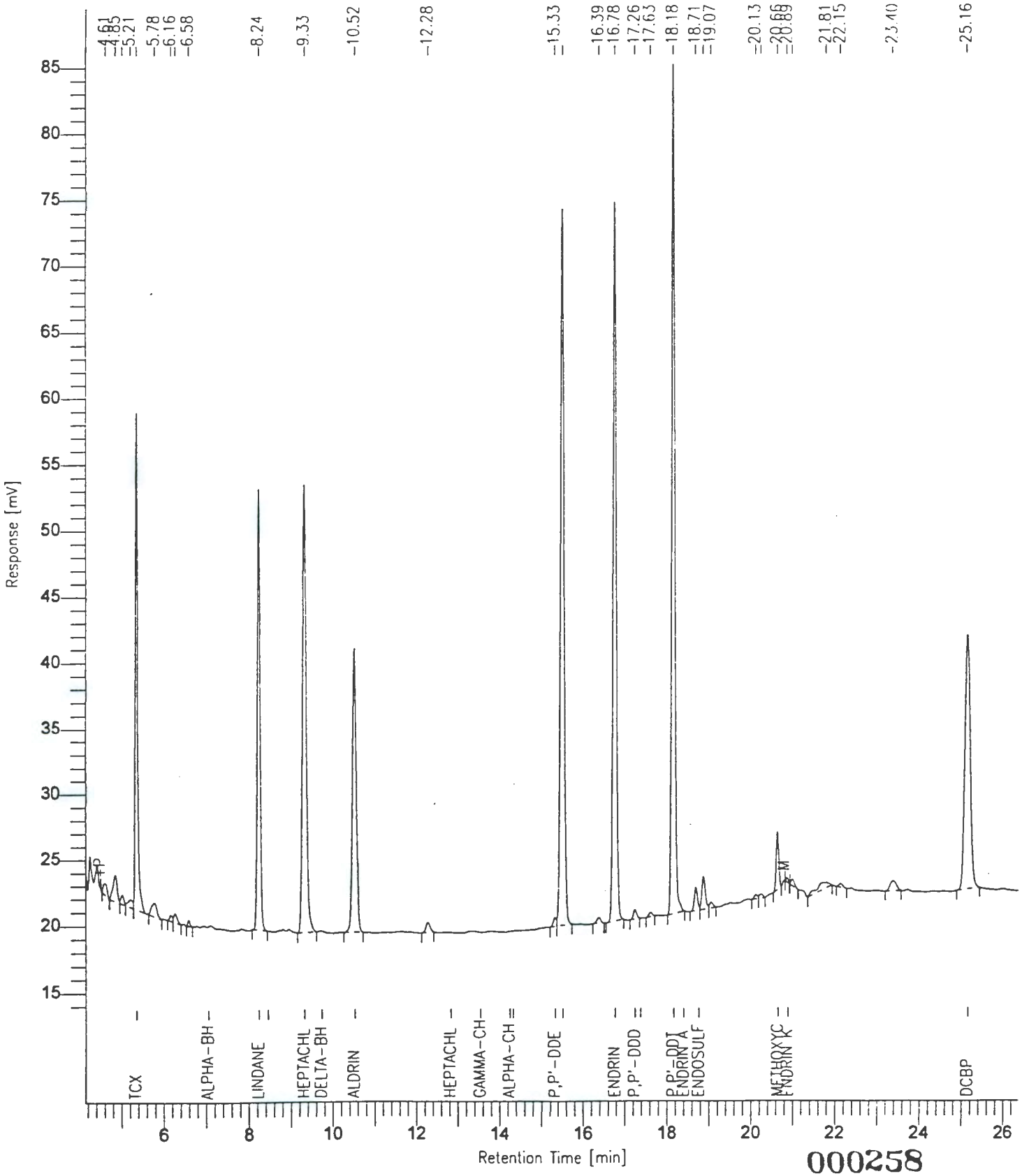
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
29	21.810		10688	B	405	-------
31	23.396		8001	B	777	-------
32	25.156	DCBP	173177	B	19305	-0.0072
			1805040		333457	

9513355.1352

Chromatogram

Sample Name : SPM1*CDMHNSS*21 5-3-94
FileName : C:\TC4\HP58909\557A039.RAW
Method :
Start Time : 4.14 min End Time : 26.38 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #:
Date : 5/11/94 01:44 PM
Time of Injection: 5/4/94 07:46 PM
Low Point : 13.76 mV High Point : 85.92 mV
Plot Scale: 72.2 mV



000258

Software Version: 4.0<1C29>
Sample Name : SPM1*CDMHNSS*21 5-3-94 Time : 5/11/94 02:23 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 08:28 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B040.RAW
Result File : C:\TC4\HP58909\557B040.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B040.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B040.RST
Calib Method : C:\TC4\HP58909\557B from C:\TC4\HP58909\557B040.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 10009.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 50

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.089		127074	B	39149	-------
2	3.253		160695	B	56038	-------
3	3.470		154468	V	43250	-------
4	3.617		10380	E	3441	-------
5	3.717	TCX	287155	V	97020	-0.0154
6	3.851		31546	E	7172	-------
9	4.322		14773	V	3365	-------
14	5.289		11434	B	2144	-------
16	5.948	LINDANE	376962	B	97852	-0.0005
17	6.413	HEPTACHLOR	443502	B	92988	0.0001
19	7.088	ALDRIN	312912	V	62135	-0.0301
20	7.551		18132	B	1069	-------

9513355.1554

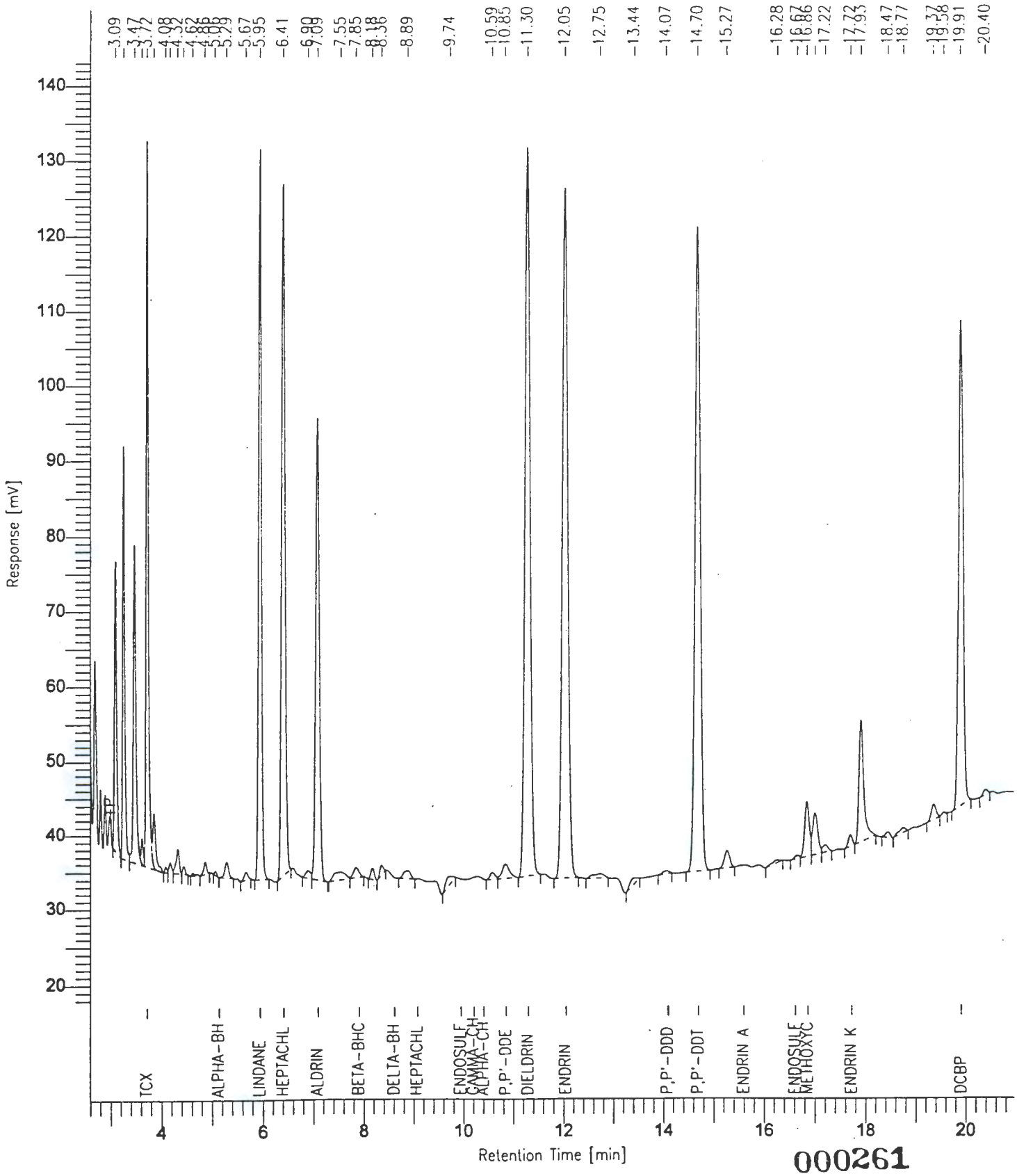
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
21	7.854		10636	V	1357	-------
24	8.887		10509	B	1076	-------
25	9.743		11833	B	981	-------
27	10.851	P,P'-DDE NC	20471	V	1975	-0.0347
28	11.300	DIELDRIN	708645	B	97325	-0.0169
29	12.048	ENDRIN	694419	B	92240	-0.0168
33	14.699	P,P'-DDT	624530	B	86073	-0.0111
34	15.274		17963	B	2336	-------
37	16.859	METHOXYCHLOR BDL	48125	V	7481	-0.0370
38	17.018		40026	V	5661	-------
41	17.930		110405	V	16504	-------
44	19.368		14729	B	2109	-------
46	19.913	DCBP	401911	B	64930	-0.0054
48	21.139		19886	B	2816	-------
49	21.254		15582	V	2191	-------
			4698700		890679	

9513355.1355

Chromatogram

Sample Name : SPM1*CDMHNSS*21 5-3-94
FileName : C:\TC4\HP58909\557B040.RAW
Method :
Start Time : 2.59 min End Time : 20.96 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/11/94 02:23 PM
Time of Injection: 5/4/94 08:28 PM
Low Point : 17.11 mV High Point : 143.84 mV
Plot Scale: 126.7 mV



000261

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A1101007MSD

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 48777

Matrix: (soil/water) SOIL Lab Sample ID: SPM2*CDMHNSS*21

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

% Moisture: 4 decanted: (Y/N) Y Date Received: 05/03/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/03/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	16.	
76-44-8	Heptachlor	14.	
309-00-2	Aldrin	14.	
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	31.	
72-55-9	4,4'-DDE	2.7	J
72-20-8	Endrin	31.	
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	36.	
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.5	U
742-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.7	U
5566-34-7	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	69.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	35.	U
11096-82-5	Aroclor-1260	35.	U

9513355.1557

Software Version: 4.0<1C29>
Sample Name : SPM2*CDMHNSS*21 5-3-94 Time : 5/11/94 01:46 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 09:11 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557A041.RAW
Result File : C:\TC4\HP58909\557A041.RST
Inst Method : HP58909 from C:\TC4\HP58909\557A041.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\557A041.RST
Calib Method : C:\TC4\HP58909\557A from C:\TC4\HP58909\557A041.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 5963.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 44

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
5	5.353	TCX	158943	B	45582	-0.0012
6	5.782		9141	V	963	-------
12	7.436		7486	B	1792	-------
14	8.237	LINDANE	182820	B	40157	-0.0080
16	9.325	HEPTACHLOR	242479	B	39695	-0.0016
17	10.523	ALDRIN	168066	B	26011	-0.0235
19	12.277		6740	B	940	-------
24	15.332	P,P'-DDE	30905	B	5279	-0.0358
25	15.516	DIELDRIN	377916	V	66071	-0.0069
27	16.778	ENDRIN	340261	B	63977	-0.0031
28	17.255	P,P'-DDD ACL	11100	B	1999	-0.0153
30	18.174	P,P'-DDT	425884	B	86453	0.0005

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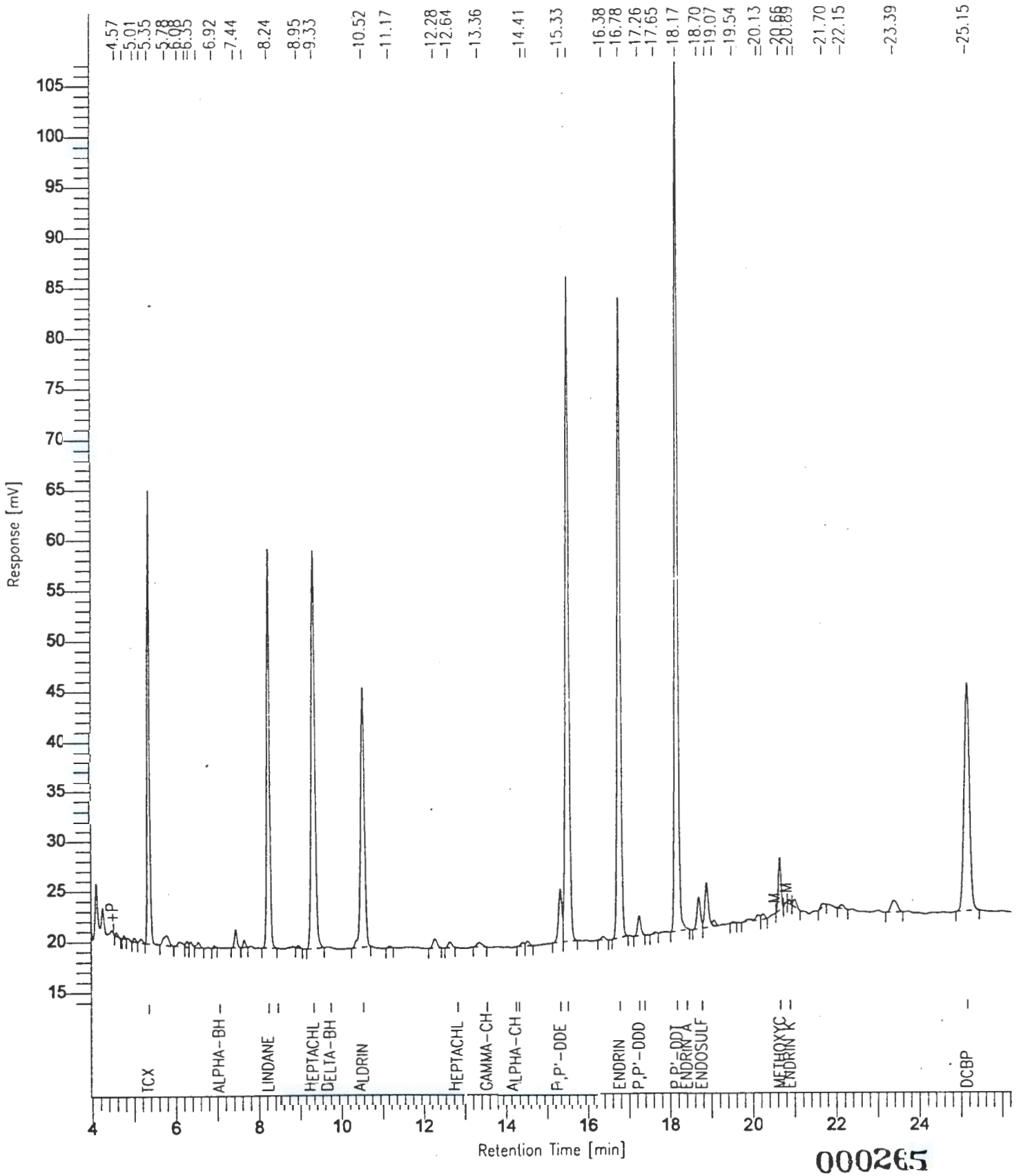
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
31	18.700	ENDOSULFAN SULFATE	18580	B	3159	-0.4001
32	18.889		27607	V	4495	-------
37	20.657	METHOXYCHLOR	23753	*B	5274	-0.0355
42	23.394		12450	B	1180	-------
43	25.153	DCBP	203822	B	22816	-0.0195
44	26.781		6162	B	580	-------
			2254119		416423	

9513355.1359

Chromatogram

Sample Name : SPM2*CDMHNSS*21 5-3-94
FileName : C:\TC4\HP58909\557A041.RAW
Method :
Start Time : 3.97 min End Time : 26.23 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #:
Date : 5/11/94 01:46 PM
Time of Injection: 5/4/94 09:11 PM
Low Point : 13.90 mV High Point : 107.62 mV
Plot Scale: 93.7 mV



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9513555.1360

Software Version: 4.0<1C29>
Sample Name : SPM2*CDMHNSS*21 5-3-94 Time : 5/11/94 02:24 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/4/94 09:54 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\557B042.RAW
Result File : C:\TC4\HP58909\557B042.RST
Inst Method : HP58909 from C:\TC4\HP58909\557B042.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\557B042.RST
Calib Method : C:\TC4\HP58909\557B from C:\TC4\HP58909\557B042.RST
Sequence File : C:\TC4\HP58909\557A.SEQ

Sample Volume : 1 ul Area Reject : 10009.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 53

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.184		21505	B	4539	-------
2	3.253		195662	V	58876	-------
5	3.717	TCX	339378	V	116462	-0.0158
12	4.861		11830	V	2771	-------
13	5.063		31954	V	7402	-------
16	5.949	LINDANE	461304	B	119617	0.0235
17	6.413	HEPTACHLOR	546798	B	113624	0.0059
19	7.089	ALDRIN	379235	B	75695	-0.0096
21	7.847		11256	B	1618	-------
22	8.183		11859	B	2102	-------
23	8.354		17748	V	2813	-------
25	9.784		13693	B	1210	-------

9513355.1361

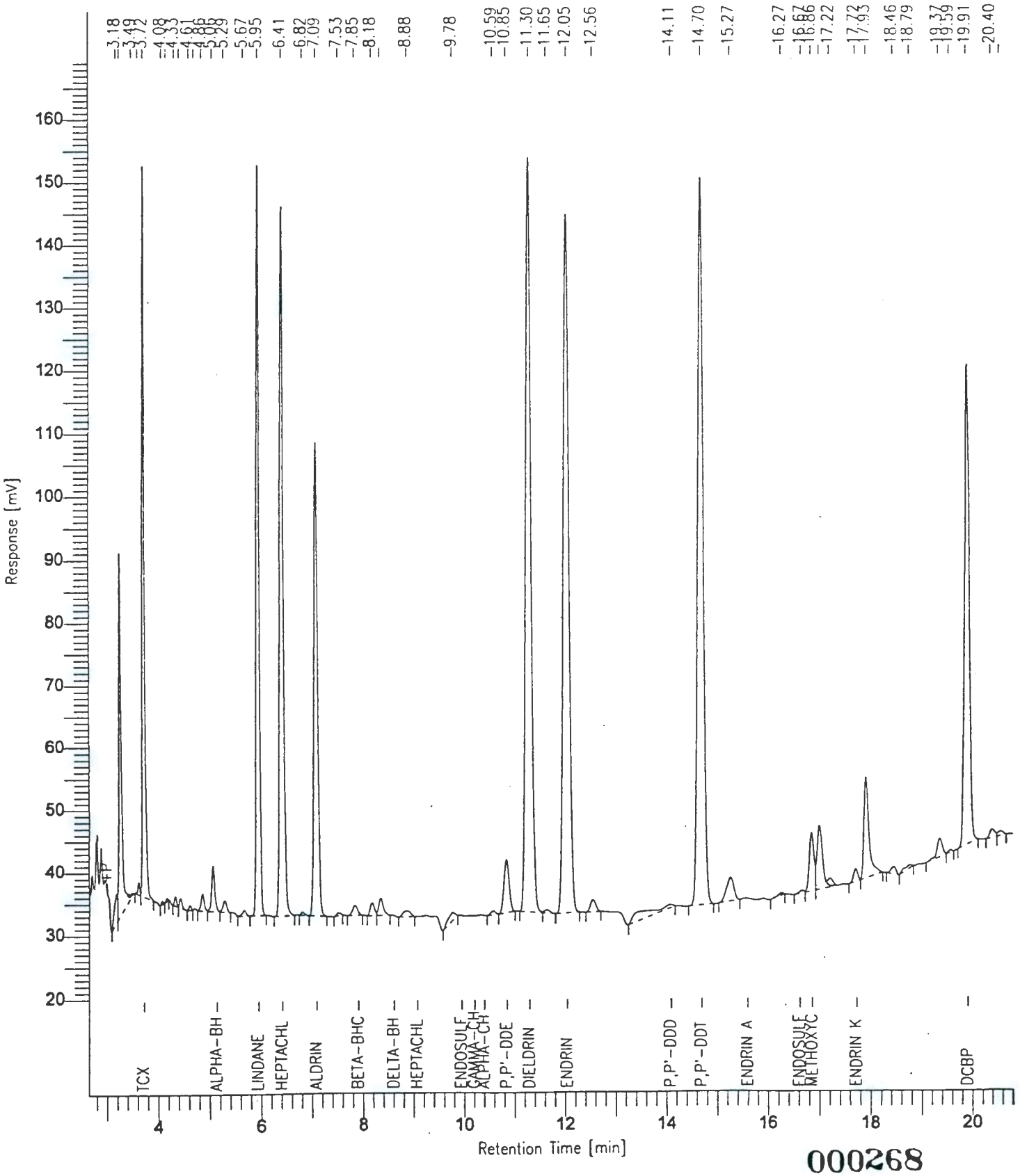
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
27	10.851	P,P'-DDE	62286	B	8599	-0.0381
28	11.302	DIELDRIN	865140	B	120421	0.0039
30	12.050	ENDRIN	835392	B	111346	0.0022
31	12.563		14752	B	1978	-------
32	14.109	ENDOSULFAN B NC	41344	B	424	0.0263
33	14.702	P,P'-DDT	841481	B	116024	0.0096
34	15.269		36897	B	3789	-------
37	16.861	METHOXYCHLOR BDL	59964	V	9414	-0.0220
38	17.019		76740	V	10233	-------
40	17.721	ENDRIN KETONE NC	11913	B	2075	-0.0419
41	17.929		111170	V	16278	-------
44	19.367		22835	B	2998	-------
46	19.914	DCBP	474650	B	76570	-0.0004
49	21.143		18198	B	2709	-------
50	21.260		30105	V	3455	-------
52	23.765		15146	B	1403	-------
53	28.046		11050	B	855	-------
			5571287		995303	

9513355.1362

Chromatogram

Sample Name : SPM2*CDMHNSS*21 5-3-94
FileName : C:\TC4\HP58909\557B042.RAW
Method :
Start Time : 2.64 min End Time : 20.82 min
Scale Factor: 0.0 Plot Offset: 20 mV

Sample #:
Date : 5/11/94 02:24 PM
Time of Injection: 5/4/94 09:54 PM
Low Point : 19.68 mV High Point : 169.86 mV
Plot Scale: 150.2 mV



000268

9513355.1363

OTHER RELEVANT DOCUMENTS

9513355.1364

ESE ENVIRONMENTAL SCIENCE AND ENGINEERING, INC. | **CHROMATOGRAPHIC ANALYSIS LOG**

Date: 5-3-94
Analyst: VIC BAUDER 1781
Project: CDN-HANFORD N. SLOPE
Case No.: 19940226 0201
Instrument ID: HP5890 G.C.
Data System ID: TURBOCHROM 4.0
Analysis Type: CLP-PEST-3/90

COLUMN A/B
Length: 30M
~~OD~~ 3288225/249246
ID: 0.53mm
Phase: DB608/DB1701
Thickness: 0.83/1.0 µm
Support: FUSED SILICA
Loading: NA

INJECTOR A/B
Type: ON COLUMN
Temp °C: 150 40/min 240
Volume: 1.0L
Carrier Gas: HELIUM
Type: UPC
Flow Rate: 7.0/16.0 mL/min

DETECTOR A+B
Type: EC; Ni63
Attn.: 0
Range: 1
Temp °C: 300
Make-up: 5% CH4/Ar

Oven Temp. Initial: 140 °C for 1 Min.
Rate A: 20 Final Temp A °C: 190 for 0 Min.
Rate B: 3 Final B °C: 220 for 0 Min.
8 275 14

Comments: TURBOCHROM FILES: 557A*.* + 557B*.*

Run No.	Sample No.	Run No.	Sample No.	Run No.	Sample No.
1	RESC 731:73	28	GQW1*77 4.24.94	55	CIHZW3*7 4.25.94
2	RESC	29	HEXANE	56	*8
3	INDAH :80	30	PIBLK 731:73	57	*9
4	INDBH :80	31	INDAM :80	58	*10
5	HEXANE VSP 5-4-94	32	INDBM :80	59	*11
6	RESC 731:73	33~~32~~	GPC*1002A*MATRIX SPK 5-3-94	60	HEXANE
7	PEM 81	34	*END STD	61	PIBLK 731:73
8	AR1660 73	35	*AR1660 SPK	62	INDAM :80
9	AR1221	~~36~~	*BLK	63	INDBM :80
10	AR1232	37~~34~~	CDMHNSS*BLK 5-3-94	64	CIHZW3*15 4.25.94
11	AR1242	38	*21	65	*65
12	AR1248	39~~36~~	HEXANE	66	*66
13	AR1254	40~~34~~	CDMHNSS*21MS 5-3-94	67	HEXANE
14	TOXAPH 73	41~~38~~	HEXANE	68	HEXANE
15	INDAL 80	42~~34~~	CDMHNSS*21MSD 5-3-94	69	PIBLK 731:73
16	INDBL	43~~40~~	HEXANE	70	PEM 731:81
17	INDAM	44	PIBLK 731:73		
18	INDBM	45	PEM :81		
19	INDAH	46	CIHZW3*BLK 4.25.94		
20	INDBH 80	47	*26		
21	PIBLK 731:73	48	*26MS		
22	PEM 731:81	49	*26MSD		
23	GQW1*BLK PEFC 4.24.94	50	*2		
24	*30	51	*3		
25	*30MS	52	*4		
26	*30MSD	53	*5		
27	*29	54	*6		

FORM 8T303

BOOK NO: B-0465 ~~000025~~

000270

9513355.1365

ESE ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.

CHROMATOGRAPHIC ANALYSIS LOG

Date: 5/3/94
Analyst: FF (2790)
Project: CDM
Case No.: N/A
Instrument ID: 1002-A
Data System ID: N/A
Analysis Type: 3/90 OCP

COLUMN		INJECTOR		DETECTOR	
Length		Type		Type	
OD		Temp °C		Attn.	
ID		Volume		Range	
Phase		Carrier Gas		Temp °C	
Thickness		Type		Make-up	
Support		Flow Rate			
Loading					
Oven Temp. Initial	°C			for	Min.
Rate A	Final Temp A °C		(WIFF 5/3/94)	for	Min.
Rate B	Final B °C		~~WIFF 5/3/94~~	for	Min.

Comments: GPC chk = 1.0ml 3/90 SOW GPC ~~chk~~ chk in 10ml mec/2. SPK chk = 1.0m 3/90 matrix VSB 731:94 + 1.0ml 3/90 SOW 731:87 VSB .2 mg/ml in 10ml mec/2

Run No.	Sample No.	Run No.	Sample No.	Run No.	Sample No.
1	GPC chk				
2	WIFF ~~SPK chk~~	mec	12 (GPC BLK - do		not discard)
3	5/3/94 ~~mec 12~~	3/90	chk		d = 32
4		1016	11260		c = 17
5		mec	12		w = 11
6	CDM HNSS	+	BLK		flow rate = 5
7			x21		gage = 0.5
8		"	21MS		sensitivity = 0.5
9		"	21MSD		
10		"	and Std		
			3/90 chk = 2ml	3/90	matrix 0.5-1.0
	mg/ml VSB	731:	84 taken to 10ml		under nitrogen then
	bright	+	10ml		
			10cm/1.92		

FORM 87303

~~000053~~

000271

ESE. ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.

ORGANIC LABORATORY/EXTRACTION LOG SHEET

BOOK NO: 404 C65

PROJECT: CDM-Hanford N slope
PROJECT NO.: 19440226 0201
CASE NO.: NA
EXTRACTOR(S): N (2)(10)
CLEAN-UP: GPC/Florisil
DATE: 5/3/94
TIME: 5p
EXTRACTION METHOD: 3/90 CLP OCP SOILS
SAMPLE FRACTION: SS
CHECKED BY: A
BALANCE USED: #23

SAMPLE NO.	VOLUME-ml MASS-gr.	INITIAL/ FINAL pH	TYPE/DATE OF CLEAN-UP	FINAL VOL. SOLVENT	SURRO-GATE ADDED Y/N	COMMENTS
CDMHNSS-21	30.0g	8.48	GPC/florisil	10.0ml Hex	y	20.0ml 3/90 surrogate .2ug/ml
21MS		—				TCX/DCBP 731.87 exp 10/26/94
21MSD		—				V. Bundy 4/26/94 to all
BLK		—				1.0ml 3/90 analyza pest std .5-1ug/ml
						731.84 4/20/94 exp 10/20/94
						Bundy
						Spiked: N WH:
						Hexane BG1556
						Acetone lot BH095
						Mells lot BA111

CHAIN-OF-CUSTODY RECORD

FORM 87262

000272

9513355.1366

9513355.1367

SAMPLES CDMHMSS-21

3/90 CLP OCP SONICATIONS
EXTRACTION SOLVENT: 50/50 $MeCl_2$/ACETONE

1) Decant aqueous layer from sample, discard stones, sticks, leaves: weigh up **30.0g** soil into Teflon beaker, AT 5/3/94

2) Add **60.0g** baked Na_2SO_4 (granular or powdered) to dry
3) Method blank is **30.0g** of Na_2SO_4

4) Weigh **50.0g** sample into 250ml beaker, add **50ml** HPLC H_2O to all, stir for 1 hour, check and tabulate pH.

5) Tune sonicator.
6) Spike samples, Immediately add 100ml of 50/50 MeCl/Acetone
7) Sonicate for 3 minutes with 3/4 inch horn, power at 10, and duty cycle at 50%, 1s pulse. Centrifuge at 1000 RPM for 5 minutes, decant extract into KD-receiver through funnels packed with silane treated glasswool and baked sodium sulfate
8) Repeat steps (7) two more times
Rotevapped at 45T and 25" Hg
9) Conc. to 10mls with snyder attachment at 60-80 °C 5/3/94

10) Conc. to 1ml with microsnyder attachment, take to 10.0ml with MeCl in GCT.
11) Load on GPC, check if calibrated within 1 week, GPC check peaks should have <5% shift from previous run

12) Conc extracts off GPC to 10ml using KD-receivers, make copies of GPC chart and include with logsheets DLC
13) Solvent exchange to hexane, take to 5.0ml Hexane 5/4/94

14) Run 2.0ml through florisil catridge, elute with 8ml of 10% acetone in hexane, collect in receivers. Check if performance chk done on catridge, tabulate lot#. G27570
Catridge must be rinsed with 10ml of 10% acetone in hexane prior to use. DLC/CAT
15) Conc to <2ml using modified microsnyders, quantitatively transfer to amber vials, top to 2.0ml mark with hexane
16) Clean fraction to fidge C, unclead to B2 in vials 5/4/94

QC Required: MS
MSD
BLANK

Chain of Custody

to FF AT 5/3/94	to 1007 A 5/3/94	to Vic Bender 5/4/94 CAT	TO FRIDGE 18 5-4-94 ✓SP	

for this GPC calibrated on 5/3/94

000273

[redacted]

Notebook No. 1033

PROJECT CDM- Hanford H Slope 3/90 CLP Pest Soils

Continued From Page

CDM14 NSS= 21, 21MS, 21MSD, BCIC

1) Weighed out 30.0g sample into Teflon beaker. Added 60g powdered and baked Na_2SO_4 (DLC 4/21/94) to dry. BCIC is 100% baked and powdered Na_2SO_4.
2) Weighed out 50g sample into beaker, added 50ml HPLC H_2O, stirred for 1hr - Checked and tabulated pH.
3) Added 150ml 50/50 $MeCl_2$/Acetone into teflon beaker containing dry sample. Sonicated for 3 minutes each. Centrifuged at 1K RPM for 5 minutes, drained extracts through baked Na_2SO_4 into 500ml flasks.
4) Repeated step (3) two more times with 100ml of 50/50 $MeCl_2$/Acetone. Rotovapped at 40°C, at 25" Hg to 2-3ml, filled to 10ml in GCT. Loaded on 100ZA JT 5/3/94
5) Cone to ~10ml CH_2Cl_2. DLC 5/4/94
6) Solvent exchange to Hexane, brought up to 5.0ml in GCT.
7) Loaded 2.0ml of sample onto florisil cartridges, eluted with 8ml 10% acetone/90% Hexane, collected in receivers, cone to ~1ml. Brought up to 2.0ml in 4ml graduated vials 5/4/94 DLC/CAT.

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
JT	5/3/94	Christine A. Morrison	5/4/94

[redacted]

PROJECT STD PREP. FOR CLP-PEST-3/90

Continued From Page

PESTICIDE SURROGATE MIX
RESTEK LOT # A002788 CATALOG # 32000

	UG/ML	0.5 ML →	STOCK UG/ML	1 ML → 100 ML HEXANE	PIBLK NG/ML	20.ML → 200.ML ACETONE	SURROGATE SPIKE UG/ML
TCX	200.		2.		20.		0.2
DCBP	200.	50. ML ACETONE	2.		20.		0.2

TOXAPHENE MIX RESTEK LOT # A000038 CATALOG # 32005

	UG/ML	0.5 ML → 25. ML HEXANE	STOCK UG/ML		UG/ML ①	1. ML → 10. ML TOTAL HEXANE	STOCK UG/ML
TOXAPHENE	1000.		20.	1016	1000		10.
				1260	1000		10.

COMPOUND	STOCK UG/ML	SOURCE NOTE BOOK : PAGE	PREP. DATE	VOLUME APPED ML	VOLUME ① PP 2.UG/ML TCX+DCBP APPED ML.	FINAL VOLUME HEXANE ML.	PCB CONC. NG/ML	TCX+PCBP CONC. NG/ML
AR1221	10.	854:77	8.29.93	2.	1.	100	200.	20.
AR1232	10.	854:77	8.29.93	1.	1.	100	100.	20.
AR1242	10.	854:77	8.29.93	1.	1.	100	100.	20.
AR1248	10.	854:77	8.29.93	1.	1.	100	100.	20.
AR1254	10.	854:77	8.29.93	1.	1.	100	100.	20.
AR1016	10.	731:73	11-18-93	1.	1.	100	100.	20.
AR1260	10.						100.	
TOXAPHENE	20.	731:73	11-18-93	2.5	1.	100	500.	20.

PESTICIDE RESOLUTION CHECK MIX
RESTEK LOT # A000056 CATALOG # 32001

	UG/ML	0.5 ML → 50 ML TOTAL HEXANE	RESC NG/ML
GAMMA-CHLORDANE	1.0		10.
ENDOSULFAN I	0.98		9.8
DIELDRIN	1.98		19.8
4,4'-DDE	1.98		19.8
ENDOSULFAN SULFATE	2.0		20.
ENDRIN KETONE	2.02		20.2
METHOXYCHLOR	9.98		99.8
TCX ①	2.	0.5 ML	20.
DCBP	2.		20.

HEXANE USED IS LOT # BF932 B+J BRAND NON-SPECTRO.

ACETONE USED IS LOT # BF929 B+J BRAND

① SEE ABOVE FOR STOCK TCX/DCBP PREP.
② SEE PAGE 82 OF NOTEBOOK 854 (BAB ROBERTSON) FOR STD. PREP.

Continued on Page

Nick S. [illegible] 11-18-93 Robert R. Robertson 11-19-93

Read and Understood By

Signed Date Signed Date

Notebook No. 00731

PROJECT STD. PREP. FOR CLP-PEST -3/90

Continued From Page

CLP PESTICIDES/PCB (3/90 SOW)
CALIBRATION MIX 1 C-177-02
EXP = 3/96 ISO-OCTANE NSI ENVIRONMENTAL SOLUTIONS

	UG/ML	INDAH NG/ML	INDAM NG/ML	INDAL NG/ML
ALPHA-BHC	8.	80.	20.	5.
GAMMA-BHC	8.	80.	20.	5.
4,4'-DDD	16.	160.	40.	10.
4,4'-DDT	16.	160.	40.	10.
DIELDRIN	16.	160.	40.	10.
ENDOSULFAN I	8.	80.	20.	5.
ENDRIN	16.	160.	40.	10.
HEPTACHLOR	8.	80.	20.	5.
4,4'-METHOXYCHLOR	80.	800.	200.	50.
TETRACHLORO-M-XYLENE	8.	80.	20.	5.
DECACHLOROBIPHENYL	16.	160.	40.	10.

0.5 ML → 50 ML HEXANE; 25 ML → 100 ML HEXANE

0.5 ML → 200 ML HEXANE

CLP PESTICIDES/PCB (3/90 SOW)
CALIBRATION MIX 2 C-176-02
EXP = 3/96 ISO-OCTANE NSI ENVIRONMENTAL SOLUTIONS

HEXANE USED IS 6-LS BRAND NON-SPECTRO LOT# BG656

	UG/ML	INDBH NG/ML	INDBM NG/ML	INDBL NG/ML
ALDRIN	8.	80.	20.	5.
BETA-BHC	8.	80.	20.	5.
DELTA-BHC	8.	80.	20.	5.
ALPHA-CHLORDANE	8.	80.	20.	5.
GAMMA-CHLORDANE	8.	80.	20.	5.
4,4'-DDE	16.	160.	40.	10.
ENDOSULFAN II	16.	160.	40.	10.
ENDOSULFAN SULFATE	16.	160.	40.	10.
ENDRIN ALDEHYDE	16.	160.	40.	10.
ENDRIN KETONE	16.	160.	40.	10.
HEPTACHLOR EPOXIDE	8.	80.	20.	5.
TETRACHLORO-M-XYLENE	8.	80.	20.	5.
DECACHLORO BIPHENYL	16.	160.	40.	10.

0.5 ML → 50 ML HEXANE; 25 ML → 100 ML HEXANE

0.5 ML → 200 ML HEXANE

Continued on Page

Nestor S. Zuk 3-29-94 Read and Understood By 4/1/94

Signed Date Signed Date

PROJECT STD. PREP. FOR CLP-PEST-3/90

Continued From Page

CLP PESTICIDES/PCB (3/90 SOW)
PERFORMANCE EVALUATION MIX C-180-01
EXP: 4/95, ISO-OCTANE NSI ENVIRONMENTAL SOLUTIONS

~~UG~~ UG/ML 3-30-94	UG/ML		PEM NG/ML
ALPHA-BHC	1.		10.
BETA-BHC	1.		10.
GAMMA-BHC	1.	0.2 ML →	10.
4,4'-DDT	10.		100.
ENDRIN	5.	20. ML	50.
4,4'-METHOXYCHLOR	25.	HEXANE	250.
TETRACHLORO-M-XYLENE	2.	G.J. BRAND	20.
DECACHLOROBIPHENYL	2.	NON-SPOILT	20.
		LOT# BG656	

4-13-94 VIC BAUDER REMADE PEM AS ABOVE USING PEM C-180-01 AND HEXANE LOT # BG656 Robert R. Robertson 4/15/94

4-19-94 VIC BAUDER REMADE PEM AS ABOVE USING PEM C-180-01 AND HEXANE LOT #BH188 Robert R. Robertson 4/20/94

4-26-94 VIC BAUDER REMADE PEM AS ABOVE USING PEM C180-01 AND HEXANE LOT # BH188 Robert R. Robertson 4/26/94

5-3-94 Vic BAUDER REMADE PEM 0.1 ML → 10 ML HEXANE USING PEM C-180-01 AND HEXANE LOT # BH188.

Continued on Page

Nick S. Taylor 3-30-94 Read and Understood By Robert R. Robertson 4/11/94

Signed Date Signed Date

PROJECT MATRIX SPIKE PREP, CLP-PEST-3/90

Notebook No. 00731

Continued From Page

COMPOUND	INDIVIDUAL PRIMARIES NOTEBOOK:PAGE	① UG/ML	VOLUME ADDED ML	STOCK MATRIX SPIKE UG/ML		MATRIX SPIKE UG/ML
LINDANE	933 : 40	1000.	1.	20.		0.5
HEPTACHLOR	933 : 40	1000.	1.	20.	2.5 ML	0.5
ALDRIN	933 : 40	1000.	1.	20.	→	0.5
DIELDRIN	933 : 41	1000.	2.	40.	100 ML TOTAL	1.0
ENDRIN	933 : 41	1000.	2.	40.	IN METHANOL	1.0
4,4'-DDT	933 : 42	1000.	2.	40.		1.0

50. ML TOTAL IN ACETONE → B+J BRAND LOT # BA059

B+J BRAND LOT # BE686

① INDIVIDUAL PRIMARIES MADE BY JOE K. 4-5-94, SOLUTION C IN ACETONE WAS USED.

REMADE MATRIX SPIKE 5-6-94 VSB

STOCK MATRIX SPIKE —5 ML→ MATRIX SPIKE
200. ML METHANOL → B+J BRAND LOT # BE686 Robert R. Robertson 5/6/94

Continued on Page

Nat S. [illegible] 4-20-94 Robert R. Robertson 5-6-94

Read and Understood By

Signed Date Signed Date

PROJECT SURROGATE PREP. CLP-PEST-3/90

Continued From Page

PESTICIDE SURROGATE MIX
RESTEK LOT # A 002789 CATALOG # 31000
DATE MADE 9/93 IN ACETONE

	UG/mL		STOCK UG/mL		SURROGATE SPIKE UG/mL
TCX	200.	0.5 mL →	2.	20. mL →	0.2
DCBP	200.	50. mL ACETONE	2.	200. mL ACETONE	0.2

ACETONE USED IS LOT # BH059 B+J BRAND.

VIC BAUER REMADE SURROGATE SPIKE AS ABOVE ON 5-9-94
USED ACETONE LOT # BH059 B+J BRAND. Robert R. Roberts 5/9/94

Continued on Page

Nick S. Zuber 4-26-94 Read and Understood By Robert R. Roberts 5/9/94

Signed Date Signed Date

Notebook No. 8.521 77

PROJECT PCB GC standards

Continued From Page

Aroclor 1254 F111 - Chem Service Lot 41-29A 100%

Amount	Volume	Solvent	Conc
250 mg	250 ml	Hexane BF098	1000 µg/ml

Aroclor 1248 - Chem Service F110 Lot 67-83A 100%

25.0 mg	25.0 ml	Hexane	1000 µg/ml

Aroclor 1242 Chem Service F109 Lot 26-28D 100%

250 mg	250 ml	Hexane	1000 µg/ml

Aroclor 1221 - Restek Corp Cat# 32007 Lot # A001527
1000 µg/ml in hexane

Amount	Volume	Solvent	Conc.
0.5 ml	50.0 ml	Hexane BF094	10,000 µg/ml

Aroclor 1232 - Restek Corp Cat# 32008 Lot # A001620

0.5 ml	50.0 ml	Hexane	10,000 µg/ml

Aroclor 1254 . 1000 µg/ml	0.5 ml	50 ml	Hexane	10,000 µg/ml
Aroclor 1248 . 1000 µg/ml	0.5 ml	50 ml	Hexane	10,000 µg/ml
Aroclor 1242 . 1000 µg/ml	0.5 ml	50 ml	Hexane	10,000 µg/ml

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
Robert R. Robertson	8/29/97	[illegible]	8/29/97

PROJECT Spike standards - PCB

Continued From Page

Aroclor 1016 - Chem Service F107 Lot 62136C 100%

Amount	Volume	Solvent	Conc.
25.0 mg	25.0 ml	Acetone	1000 ug/ml

Aroclor 1260 - Chem Service F112 Lot 40-32C

25.0 mg	25.0 ml	Acetone	1000 ug/ml

Continued on Page

Robert R. Robertson 8-29-93

Signed Date

Read and Understood By

Signed Date 8/29/93

Notebook No. 854

PROJECT PCB. 1060 Spike Standard

Continued From Page

Source Robertson 854 79

	Code	Amount	Volume	Solvent	Conc
PCB. 1016	1000 ug/ml	2.5 ml	25.0 ml	Acetone	100 ug/ml
PCB. 1260	1000 ug/ml	2.5 ml		BF 502	

Spike Standard — Use 1 ml

	Amount	Volume	Solvent	Conc.
PCB. 1060 . 100 ug/ml	3 ml	100 ml	Acetone RP 502	3000 ug/ml

Continued on Page

Robert R. Robertson 9-7-93 Read and Understood By [illegible] 9-7-93

Signed Date Signed Date

9513355.1377

PROJECT OCP PRIMARY STOCKS

Notebook No. 933

Continued From Page

1) AHBHC
A) Chem Serv LOT: 112-86A 98% B) CHEM SERV LOT 45-85B 98%
A) .025 g → 25 ml Hexane = 1,000 µg/ml
B) .025 g → 25 ml Hexane = 1,000 µg/ml

2) LINDANE
A) Chem Serv 99.5% Lot: 84-83B .025g → 25 ml Hex = 1,000 µg/ml
B) Chem Serv 99.0% Lot: 20-42D .025g → 25 ml Hex = 1,000 µg/ml
C) Chem Serv 99.5% Lot: 84-18B .025g → 25 ml ACE = 1,000 µg/ml

3) Δ-BHC
A) Chem Serv 98% Lot: 126-17A .025g → 25 ml Hex = 1,000 µg/ml
B) EPA 99.6% Lot K800 .025g → 25 ml Hex = 1,000 µg/ml

4) HEPTACHLOR
A) Chem Serv 99.5% Lot: 85-136 .025g → 25 ml Hex = 1,000 µg/ml
B) EPA 99.8% Lot: E06H .025g → 25 ml Hex = 1,000 µg/ml
C) CHEM SERV 99.5% Lot 85-138B .025g → 25 ml ACE = 1,000 µg/ml

5) B-BHC
A) CHEM SERV 96.0 Lot 92-76A .025g → 25 ml Hex = 1,000 µg/ml
B) " " " .025g → 25 ml Hex = 1,000 µg/ml

6) ALDRIN
A) SARM 99.8 Lot: A379 .025g → 25 ml Hex = 1,000 µg/ml
B) EPA 99% Lot: A501 .025g → 25 ml Hex = 1,000 µg/ml
C) SARM 99.8% Lot: A379 .025g → 25 ml ACE = 1,000 µg/ml

Continued on Page

Read and Understood By

Joe Kostelnik Signed — April 5, 1994 Date — Mark Mathews Signed — 4/14/94 Date

PROJECT OCP Primary Stocks

Notebook No. 733

Continued From Page

7) ISODRIN
A) SARM 99.8% LOT: A403 .025g → 25 ml HEX = 1,000 µg/ml
B) EPA 99.3% LOT EOHO .025g → 25 ml HEX = 1,000 µg/ml
C) SARM 99.8% LOT A403 .025g → 25 ml ACE = 1,000 µg/ml

8) HEPTACHLOR EPOXIDE
A) CHEM SERV 99.0% LOT: B3-100A .025g → 25 ml HEX = 1,000 µg/ml
B) CHEM SERV 99% LOT: H-14 .025g → 25 ml HEX = 1,000 µg/ml

9) ENDOSULFAN-A
A) CHEM SERV 99.5% LOT: 96-62A .025g → 25 ml HEX = 1,000 µg/ml
B) EPA 99.8% LOT: COPE .025g → 25 ml HEX = 1,000 µg/ml
C) CHEM SERV 99.5% LOT: 96-62A .025g → 25 ml ACE = 1,000 µg/ml

10) PP-DDE
A) CHEM SERV 99.0% LOT: 105-62A .025g → 25 ml HEX = 1,000 µg/ml
B) CHEM SERV 99.3% LOT: 23-27E .025g → 25 ml HEX = 1,000 µg/ml

11) DIELDRIN
A) SARM 99.7% LOT: A401 .025g → 25 ml HEX = 1,000 µg/ml
B) EPA 99.5% LOT: AC4B .025g → 25 ml HEX = 1,000 µg/ml
C) SARM 99.7% LOT: A401 .025g → 25 ml ACE = 1,000 µg/ml

12) ENDRIN
A) SARM 99.6% LOT: A402 .025g → 25 ml HEX = 1,000 µg/ml
B) CHEM SERV 99% LOT: 100-78B .025g → 25 ml HEX = 1,000 µg/ml
C) SARM ~~CHEM SERV~~ 99.6% LOT: A402 .025g → 25 ml ACE = 1,000 µg/ml

13) PP-DDD
A) SARM 99.4% LOT: A410 .025g → 25 ml HEX = 1,000 µg/ml
B) CHEM SERV 99% LOT: 19-13A .025g → 25 ml HEX = 1,000 µg/ml

Continued on Page

Read and Understood By

Signed: [illegible] Date: April 5, 1994

Signed: [illegible] Date: 4/14/94

Notebook No. 933

PROJECT OCP Primary Stocks

Continued From Page

14) ENDOSULFAN B	A)	Chem Serv	99%	LOT: 114-116A	.025g	→ 25 ml Hex	=	1,000	µg/ml
	B)	Chem Serv	99%	LOT 96-63A	.025g	→ 25 ml Hex	=	1,000	µg/ml
	C)	Chem Serv	99%	LOT: 114-116A	.025g	→ 25 ml ACE	=	1,000	µg/ml
15) PP-DDT	A)	SARM	99.1%	LOT: A400	.025g	→ 25 ml Hex	=	1,000	µg/ml
	B)	CHEM SERV	99%	LOT: 114-57A	.025g	→ 25 ml Hex	=	1,000	µg/ml
	C)	SARM	99.1%	LOT: A400	.025g	→ 25 ml ACE	=	1,000	µg/ml
16) ENDRIN ALDEHYDE	A)	AXACT	99%	LOT: 15737	.025g	→ 25 ml HEX	=	1,000	µg/ml
	B)	Accustd	99+	LOT [illegible]	.025g	→ 25 ml Hex	=	1,000	µg/ml
17) ENDOSULFAN SO4	A)	SARM	98.6%	LOT: A405	.025g	→ 25 ml Hex	=	1,000	µg/ml
	B)	CHEM SERV	98%	LOT: 30-95B	.025g	→ 25 ml Hex	=	1,000	µg/ml
18) Methoxychlor	A)	CHEM SERV	98%	LOT: 83-43A	.025g	→ 25 ml Hex	=	1,000	µg/ml
	B)	CHEM SERV	99%	LOT 30-90	.025g	→ 25 ml Hex	=	1,000	µg/ml
	C)	CHEM SERV	98%	LOT: 83-43A	.025g	→ 25 ml ACE	=	1,000	µg/ml
19) ENDRIN KETONE	A)	AXACT	98%	LOT: 15790	.025g	→ 25 ml Hex	=	1,000	µg/ml
	B)	EPA	95.1%	LOT C041	.010g	→ 10 ml Hex	=	1,000	µg/ml
20) TCX	A)	Aldrich	95.9%	KY 00532181	.025g	→ 25 ml Hex	=	1,000	µg/ml
	B)	"	"	"	.025g	→ 25 ml Hex	=	1,000	µg/ml

Continued on Page

Read and Understood By

Joe Kostichuk Jr — Signed — April 5, 1994 — Date

[illegible] — Signed — 4/4/94 — Date

9513355.1580

Organochlorine Pesticides
& PCBs
Samples WA04-4-08 (ESE# CDMHNSS*29)
WSV2-1-01 (ESE# CDMHNSS*30)

9513355.1381

SDG NARRATIVE

SDG No.: 49096
Pesticides/PCBs

1. The USEPA contract laboratory program statement of work for organics analysis dated 3/90 revision OLM01.8 was followed.

2. The following codes are used on the data report:
   NC = Not Confirmed by the other column.
   BDL = Below Detection Limit.
   RW = out of Retention time Window.

9513355.1383

PESTICIDES & PCBs

9513355.1384

QC SUMMARY

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK1	85	94	99	97			0
02	SV201001	113	97	104	97			0
03	A0404008	82	73	92	97			0
04	SV201001MS	85	90	88	87			0
05	SV201001MS	110	109	108	109			0
06								
07								
08								
09								
10								
11								
12								
13								
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24								
25								
26								
27								
28								
29								
30								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60 -150)
DCB = Decachlorobiphenyl	(60 -150)

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

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No.: SDG No.: 49096

Matrix Spike - EPA Sample No.: SV201001

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	17	0.0	16	94	46-127
Heptachlor	17	0.0	14	82	35-130
Aldrin	17	0.0	13	76	34-132
Dieldrin	34	0.0	31	91	31-134
Endrin	34	0.0	30	88	42-139
4,4'-DDT	34	14	46	94	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
gamma-BHC (Lindane)	17	20	118	23	50	46-127
Heptachlor	17	18	106	26	31	35-130
Aldrin	17	17	100	27	43	34-132
Dieldrin	34	40	118	26	38	31-134
Endrin	34	39	115	27	45	42-139
4,4'-DDT	34	58	129	31	50	23-134

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:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Lab Sample ID: MB*QC*1 Lab File ID:

Matrix:(soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) Y Date Extracted: 05/06/94

Date Analyzed (1): 05/09/94 Date Analyzed (2): 05/09/94

Time Analyzed (1): 0802 Time Analyzed (2): 0841

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column (1): DB608 ID:.53 (mm) GC Column (2): DB1701 ID:.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	SV201001	CDMHNSS*30	05/09/94	05/09/94
02	A0404008	CDMHNSS*29	05/09/94	05/09/94
03	SV201001MS	SPM1*CDMHNSS*	05/09/94	05/09/94
04	SV201001MSD	SPM2*CDMHNSS*	05/09/94	05/09/94
05				
06				
07				
08				
09				
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26				

COMMENTS:

9513355.1388

SAMPLE DATA

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0404008

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Matrix: (soil/water) SOIL Lab Sample ID: CDMHNSS*29

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

% Moisture: 5 decanted: (Y/N) Y Date Received: 05/06/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/06/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/09/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.5	U
742-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5566-34-7	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	70.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	35.	U
11096-82-5	Aroclor-1260	35.	U

9513355.1390

Software Version: 4.0<1C29>
Sample Name : CDMHNSS*29 5-6-94 Time : 5/18/94 09:02 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 09:26 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A037.RAW
Result File : C:\TC4\HP58909\999A037.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A037.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A037.RST
Calib Method : C:\TC4\HP58909\999A from C:\TC4\HP58909\999A037.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5922.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 76

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
4	5.165		7270	B	1426	-------
5	5.340	TCX	153456	V	43137	-0.0145
6	5.565		9540	V	1485	-------
7	5.722		23816	V	2634	-------
8	5.942		6850	V	1147	-------
9	6.073		24302	V	4548	-------
10	6.254		8673	V	1217	-------
11	6.562		43528	B	4383	-------
12	6.771		7090	*V	1254	-------
13	6.983	ALPHA-BHC	7402	*B	1124	-0.7996
14	7.106		8435	*V	1498	-------
15	7.363		9792	B	1676	-------

Result File : 999A037.RST, Printed On 5/18/94 09:02 AM

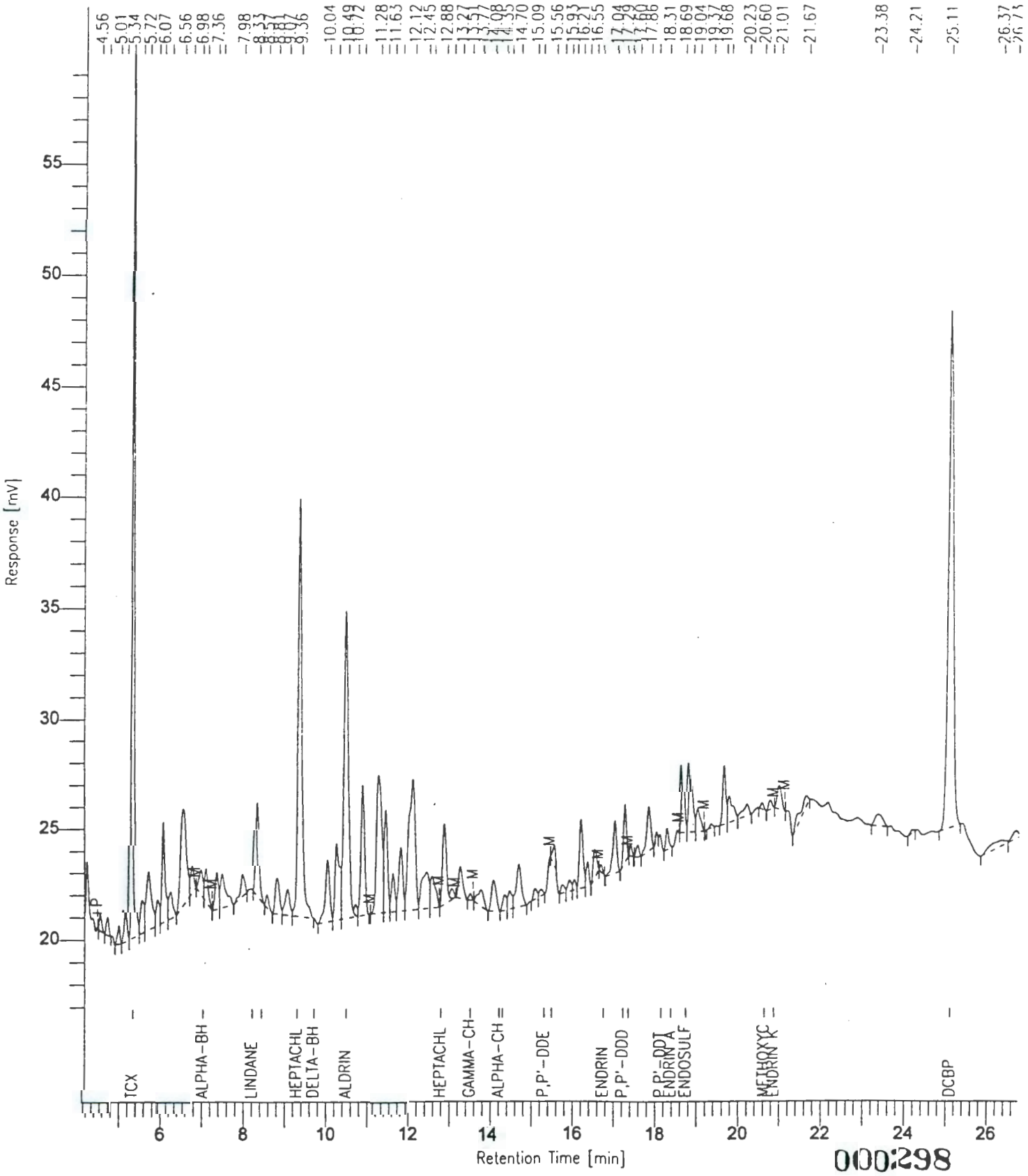
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
16	7.492		14276	V	1544	-------
17	7.977		7082	B	1009	-------
18	8.333		24892	B	4245	-------
20	8.812		11765	B	1638	-------
21	9.069		9397	V	1180	-------
22	9.357	HEPTACHLOR	121586	V	18914	0.5948
23	10.037		21472	B	2830	-------
24	10.257		27874	V	3487	-------
25	10.485	ALDRIN	105887	V	13968	-0.1360
27	10.888		37268	V	5949	-------
28	11.277		57288	*B	6268	-------
29	11.449		27049	*V	4662	-------
30	11.627		10205	*V	1737	-------
31	11.818		20379	*V	2900	-------
32	12.116		65079	*V	5943	-------
33	12.453		21238	*V	1668	-------
34	12.578		12683	*V	1453	-------
35	12.881	HEPTACHLOR EPOXIDE RW	25062	B	3674	0.6213
37	13.270		10472	*B	1454	-------
39	13.768		7616	B	753	-------
40	14.078		11588	B	1428	-------
43	14.698		17802	V	1952	-------
50	16.213		19599	V	3144	-------
52	16.545		8183	*B	1315	-------
54	17.044		15964	B	2391	-------
55	17.286	P,P'-DDD	13209	*B	2644	0.2929
58	17.862		14422	B	2027	-------
61	18.690	ENDOSULFAN SULFATE	16303	*B	3168	-0.3382
62	18.869		21229	*V	3270	-------
63	19.043		7265	*V	1030	-------
65	19.677		14267	B	2712	-------
66	19.799		10545	V	1221	-------
70	21.008		8022	*B	1097	-------
71	21.669		8664	B	458	-------
72	23.384		6794	B	528	-------
74	25.109	DCBP	200923	B	23355	-0.0461
75	26.371		8057	B	250	-------
			1351560		202794	

9515555_1592

Chromatogram

Sample Name : CDMHNSS*29 5-6-94
FileName : C:\TC4\HP58909\999A037.RAW
Method :
Start Time : 4.18 min End Time : 26.80 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/18/94 09:02 AM
Time of Injection: 5/9/94 09:26 AM
Low Point : 16.92 mV High Point : 59.94 mV
Plot Scale: 43.0 mV



9513355.1393

Software Version: 4.0<1C29>
Sample Name : CDMHNSS*29 5-6-94 Time : 5/18/94 09:10 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 10:11 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B038.RAW
Result File : C:\TC4\HP58909\999B038.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B038.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B038.RST
Calib Method : C:\TC4\HP58909\999B from C:\TC4\HP58909\999B038.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 9857.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 72

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.248		154488	V	48392	-------
5	3.711	TCX	273784	*V	93461	-0.0277
10	4.425		25952	B	7706	-------
11	4.602		23036	B	4906	-------
12	4.846		46162	*B	8255	-------
14	5.266		11301	B	1596	-------
16	5.485		23013	V	4141	-------
17	5.612		12723	V	2611	-------
18	5.860		35453	B	7335	-------
19	6.103		21854	B	4393	-------
20	6.293		175694	V	29950	-------
21	6.473		11754	B	1909	-------

Result File : 999B038.RST, Printed On 5/18/94 09:10 AM

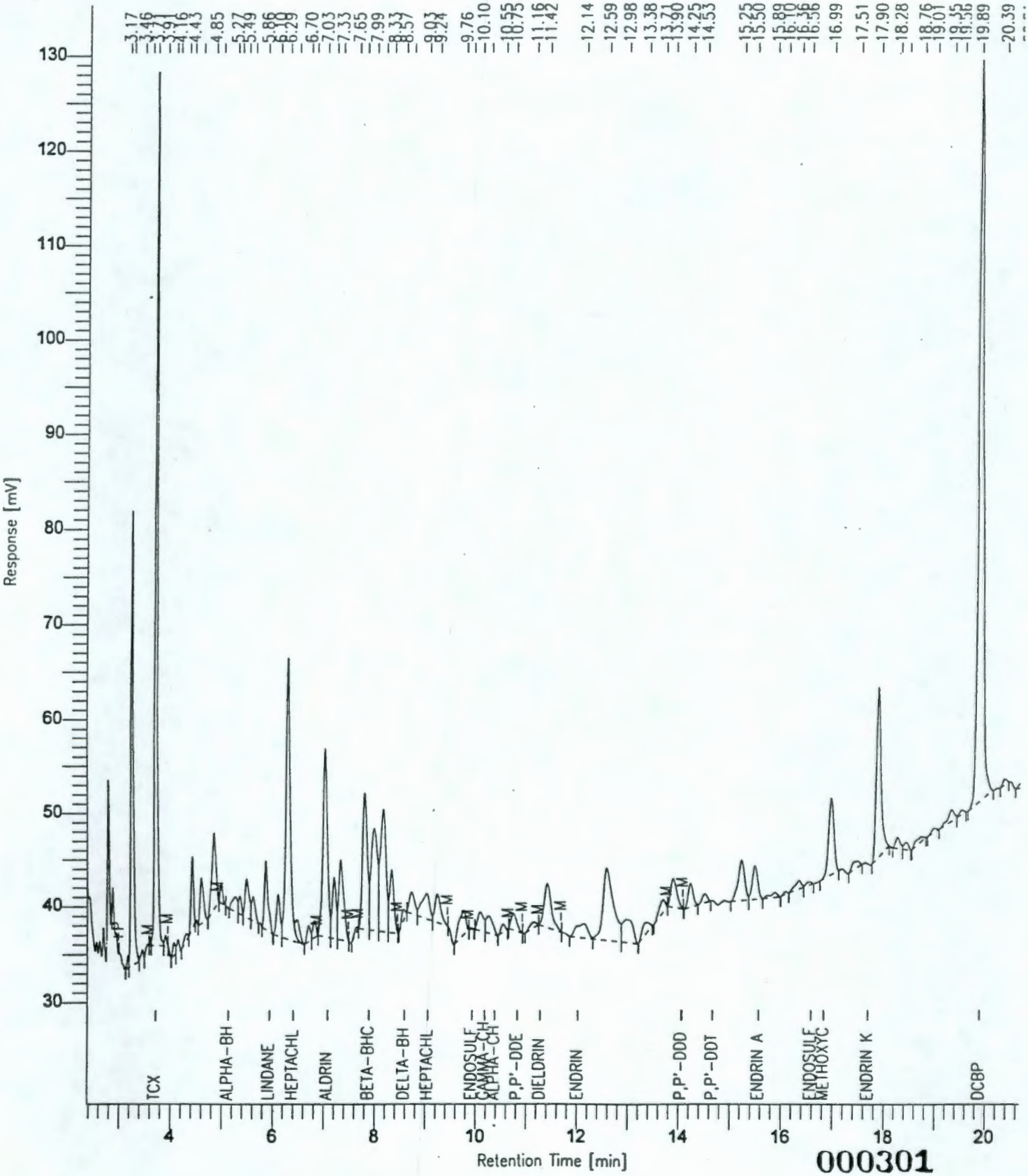
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
24	7.026		126735	*B	20179	-------
25	7.204		35483	*V	6557	-------
26	7.333		56916	*V	8520	-------
28	7.804		96390	*B	14685	-------
29	7.991		95625	*V	10953	-------
30	8.171		103727	*V	13174	-------
31	8.333		39804	*V	6728	-------
33	8.733		17160	*B	2336	-------
34	9.031	HEPTACHLOR EPOXIDE NC	29803	*V	2721	-0.2485
35	9.239		24334	*V	3065	-------
36	9.764		26397	*B	2647	-------
38	10.095		16556	B	2032	-------
39	10.261		16729	V	1842	-------
41	10.752		13589	*B	1745	-------
43	11.423		46204	*B	4723	-------
44	12.143		23512	B	1515	-------
45	12.591		111704	V	7756	-------
46	12.982		35655	V	2444	-------
47	13.381		12140	B	1123	-------
48	13.708		12227	*B	1326	-------
49	13.904		25588	*B	3060	-------
50	14.245		17521	B	2579	-------
52	15.245		39147	B	4351	-------
53	15.504	ENDRIN ALDEHYDE NC	26619	V	3637	-0.4508
58	16.991		59714	B	8265	-------
60	17.902		115499	B	18176	-------
65	19.345		11042	B	1224	-------
67	19.892	DCBP	505944	B	78300	-0.0329
69	20.809		12907	B	1117	-------
70	21.111		10251	B	1774	-------
72	23.642		14423	B	1094	-------
			2594559		454301	

9513355.1395

Chromatogram

Sample Name : CDMHNSS*29 5-6-94
FileName : C:\TC4\HP58909\999B038.RAW
Method :
Start Time : 2.38 min End Time : 20.69 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/18/94 09:10 AM
Time of Injection: 5/9/94 10:11 AM
Low Point : 29.18 mV High Point : 130.33 mV
Plot Scale: 101.2 mV



000301

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SV201001

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Matrix: (soil/water) SOIL Lab Sample ID: CDMHNSS*30

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

% Moisture: 2 decanted: (Y/N) Y Date Received: 05/06/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/06/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/09/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.8 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	37.	
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	14.	
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.4	U
742-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.7	U
5566-34-7	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	34.	U
11104-28-2	Aroclor-1221	68.	U
11141-16-5	Aroclor-1232	34.	U
53469-21-9	Aroclor-1242	34.	U
12672-29-6	Aroclor-1248	34.	U
11097-69-1	Aroclor-1254	34.	U
11096-82-5	Aroclor-1260	34.	U

9513355.1397

Software Version: 4.0<1C29>
Sample Name : CDMHNSS*30 5-6-94 Time : 5/18/94 09:01 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 08:41 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A036.RAW
Result File : C:\TC4\HP58909\999A036.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A036.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A036.RST
Calib Method : C:\TC4\HP58909\999A from C:\TC4\HP58909\999A036.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5922.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 46

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	4.553		7589	B	1181	-------
2	4.820		30745	B	3683	-------
3	5.047		35761	V	3586	-------
4	5.340	TCX	211289	V	55561	-0.0133
5	5.685		33963	V	4305	-------
11	9.468		7902	B	880	-------
12	10.359		19834	B	2614	-------
16	12.422		17440	B	2166	-------
17	13.375		13630	B	1108	-------
21	15.307	P,P'-DDE	431032	B	79437	-0.0342
22	15.479	DIELDRIN	14608	E	2487	-0.0674
25	17.229	P,P'-DDD	28886	B	5479	-0.0410

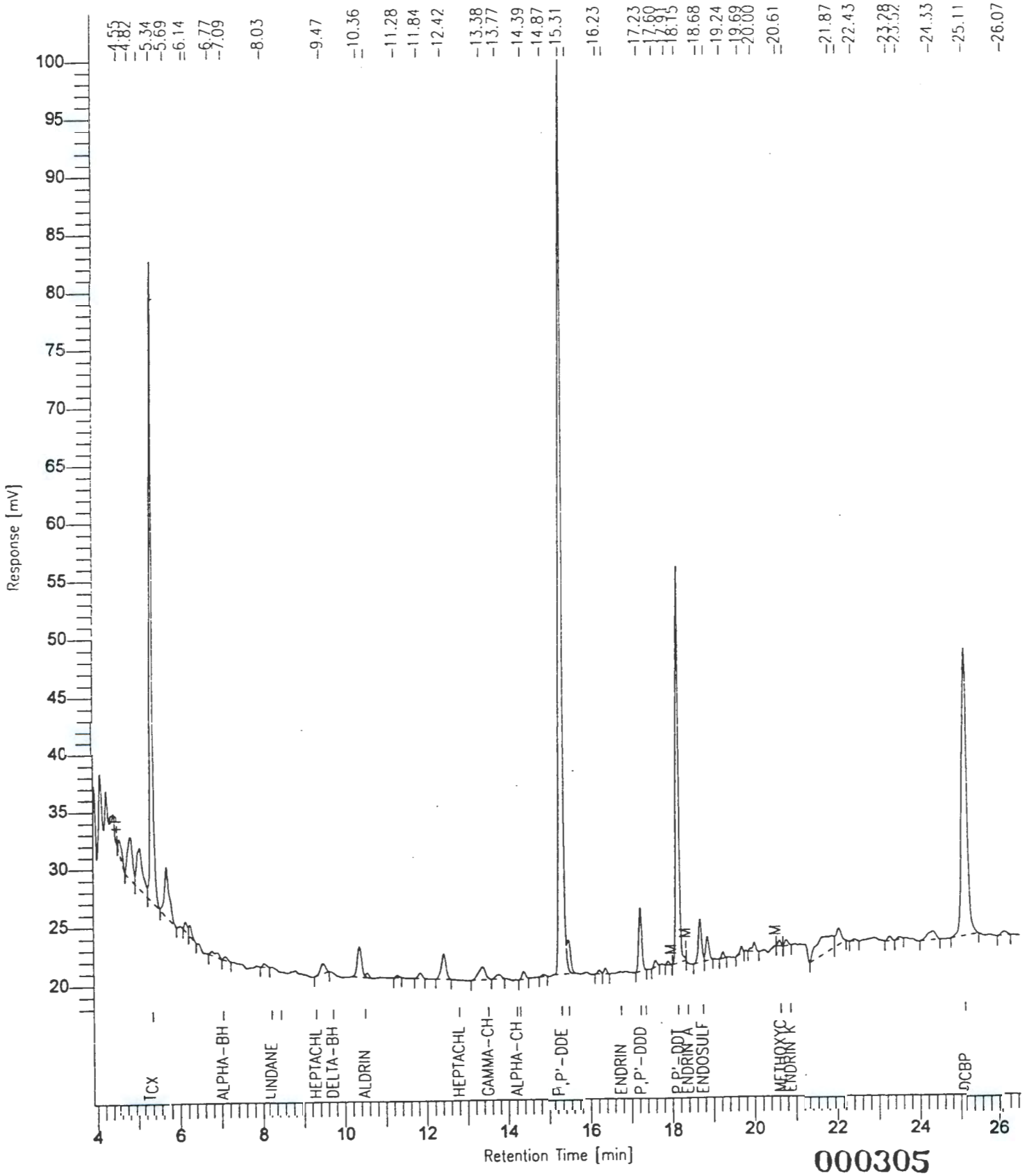
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
28	18.149	P,P'-DDT	166145	*B	34512	-0.0197
29	18.684	ENDOSULFAN SULFATE	20861	B	3712	-0.3669
30	18.861		11457	V	2053	-------
36	21.868		41400	B	1150	-------
37	22.042		12928	V	1419	-------
41	24.325		10466	B	735	-------
42	25.110	DCBP	226125	B	25095	-0.0429
45	27.537		6557	B	634	-------
			1348618		231795	

9513355.1399

Chromatogram

Sample Name : CDMHNSS*30 5-6-94
FileName : C:\TC4\HP58909\999A036.RAW
Method :
Start Time : 3.91 min End Time : 26.47 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/18/94 09:01 AM
Time of Injection: 5/9/94 08:41 AM
Low Point : 17.83 mV High Point : 100.14 mV
Plot Scale: 82.3 mV



9513355.1400

Software Version: 4.0<1C29>
Sample Name : CDMHNSS*30 5-6-94 Time : 5/18/94 09:09 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 09:26 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B037.RAW
Result File : C:\TC4\HP58909\999B037.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B037.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B037.RST
Calib Method : C:\TC4\HP58909\999B from C:\TC4\HP58909\999B037.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 9857.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 58

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.084		228587	B	71189	-------
2	3.248		294519	*B	94549	-------
3	3.465		172229	*B	40174	-------
4	3.607		24432	*E	6251	-------
5	3.711	TCX	365632	*V	124204	-0.0159
6	3.845		24767	*E	7019	-------
7	3.966		46854	*V	6921	-------
8	4.030		23460	*V	6491	-------
10	4.410		93826	B	10740	-------
11	4.568		46192	V	7110	-------
13	4.846		107147	V	24989	-------
14	4.933		70696	V	11956	-------

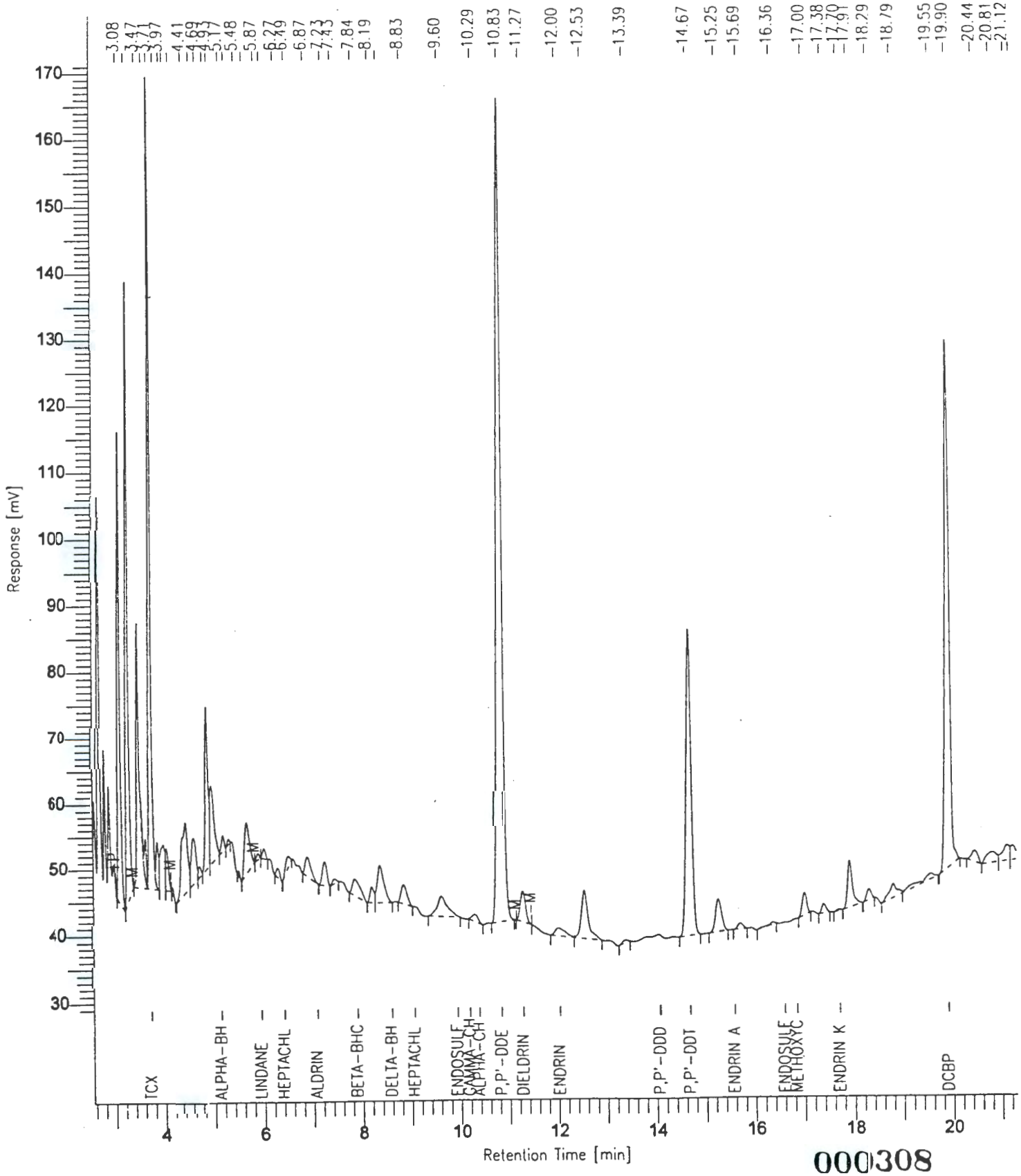
9513355.1401

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
15	5.167	ALPHA-BHC NC	10143	V	2390	0.7358
18	5.641		58028	*B	7887	-------
22	6.486		12828	B	1781	-------
23	6.874		24647	B	3044	-------
24	7.228		22597	B	3685	-------
26	7.841	BETA-BHC NC	28640	B	2544	-0.5731
27	8.185		13945	B	2380	-------
28	8.353		53942	V	5690	-------
29	8.834		24468	B	2956	-------
30	9.604		45026	B	3097	-------
32	10.826	P,P'-DDE	888768	B	124274	-0.0447
33	11.271	DIELDRIN BPL	34498	*B	4695	-0.0659
34	12.004	ENDRIN NC	16887	B	1173	-0.1649
35	12.531		69389	V	7248	-------
37	14.671	P,P'-DDT	340966	B	46626	-0.0229
38	15.251		41598	B	4921	-------
41	16.997		21977	B	3434	-------
44	17.906		49608	B	7169	-------
45	18.292		10573	B	1710	-------
46	18.792		24507	B	2138	-------
47	19.553		19491	V	848	-------
48	19.895	DCBP	504653	B	79734	-0.0225
49	20.441		15255	B	1727	-------
50	20.805		24912	B	1656	-------
51	21.117		25143	V	2421	-------
52	21.234		20154	V	2208	-------
53	21.539		13882	V	1180	-------
54	21.826		22266	V	1757	-------
57	23.581		35420	B	2844	-------
58	26.126		18933	B	1173	-------
			3991485		745982	

Chromatogram

Sample Name : CDMHNSS*30 5-6-94
FileName : C:\TC4\HP58909\999B037.RAW
Method :
Start Time : 2.55 min End Time : 21.31 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/18/94 09:09 AM
Time of Injection: 5/9/94 09:26 AM
Low Point : 28.91 mV High Point : 171.77 mV
Plot Scale: 142.9 mV



9513355.1403

STANDARDS DATA

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 05/08/94 05/08/94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	7.04	7.04	7.04	7.04	6.99	7.09
beta-BHC	8.44	8.44	8.44	8.44	8.39	8.49
delta-BHC	9.71	9.71	9.72	9.71	9.66	9.76
gamma-BHC (Lindane)	8.22	8.22	8.22	8.22	8.17	8.27
Heptachlor	9.30	9.30	9.31	9.30	9.25	9.35
Aldrin	10.50	10.50	10.50	10.50	10.45	10.55
Heptachlor epoxide	12.80	12.80	12.80	12.80	12.73	12.87
Endosulfan I	14.30	14.30	14.30	14.30	14.23	14.37
Dieldrin	15.49	15.49	15.49	15.49	15.42	15.56
4,4'-DDE	15.31	15.31	15.32	15.31	15.24	15.38
Endrin	16.75	16.76	16.76	16.76	16.69	16.83
Endosulfan II	17.36	17.36	17.37	17.36	17.29	17.43
4,4'-DDD	17.24	17.24	17.24	17.24	17.17	17.31
Endosulfan sulfate	18.75	18.75	18.76	18.75	18.68	18.82
4,4'-DDT	18.15	18.15	18.16	18.15	18.08	18.22
Methoxychlor	20.64	20.64	20.64	20.64	20.57	20.71
Endrin ketone	20.88	20.88	20.88	20.88	20.81	20.95
Endrin aldehyde	18.39	18.39	18.39	18.39	18.32	18.46
alpha-Chlordane	14.21	14.22	14.22	14.22	14.15	14.29
gamma-Chlordane	13.51	13.51	13.52	13.51	13.44	13.58
Tetrachloro-m-xylene	5.34	5.34	5.34	5.34	5.29	5.39
Decachlorobiphenyl	25.12	25.12	25.13	25.12	25.02	25.22

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB1701 ID: .53 (mm) Date(s) Analyzed: 05/08/94 05/08/94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	5.13	5.13	5.13	5.13	5.08	5.18
beta-BHC	7.88	7.89	7.89	7.89	7.84	7.94
delta-BHC	8.58	8.59	8.59	8.59	8.54	8.64
gamma-BHC (Lindane)	5.93	5.94	5.94	5.93	5.88	5.98
Heptachlor	6.40	6.40	6.40	6.40	6.35	6.45
Aldrin	7.07	7.07	7.08	7.07	7.02	7.12
Heptachlor epoxide	9.05	9.05	9.06	9.05	8.98	9.12
Endosulfan I	9.93	9.93	9.93	9.93	9.86	10.00
Dieldrin	11.27	11.28	11.28	11.28	11.21	11.35
4,4'-DDE	10.83	10.83	10.83	10.83	10.76	10.90
Endrin	12.02	12.02	12.03	12.02	11.95	12.09
Endosulfan II	14.07	14.08	14.08	14.08	14.01	14.15
4,4'-DDD	14.06	14.06	14.07	14.06	13.99	14.13
Endosulfan sulfate	16.59	16.60	16.60	16.60	16.53	16.67
4,4'-DDT	14.67	14.67	14.68	14.67	14.60	14.74
Methoxychlor	16.84	16.84	16.84	16.84	16.77	16.91
Endrin ketone	17.70	17.70	17.71	17.70	17.63	17.77
Endrin aldehyde	15.57	15.57	15.58	15.57	15.50	15.64
alpha-Chlordane	10.38	10.38	10.38	10.38	10.31	10.45
gamma-Chlordane	10.18	10.18	10.19	10.18	10.11	10.25
Tetrachloro-m-xylene	3.71	3.71	3.71	3.71	3.66	3.76
Decachlorobiphenyl	19.90	19.90	19.90	19.90	19.80	20.00

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 05/08/94 05/08/94

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	3670400	3838700	4847050	4118717	15.5
beta-BHC	2743200	2757600	2905675	2802158	3.2
delta-BHC	3262000	3293100	3809738	3454946	8.9
gamma-BHC (Lindane)	3836800	3938500	4735275	4170192	11.8
Heptachlor	6141800	5820700	6109550	6024017	2.9
Aldrin	4253200	4190400	4937375	4460325	9.3
Heptachlor epoxide	4863400	4637100	4849788	4783429	2.7
Endosulfan I	4212000	4024200	4205625	4147275	2.6
Dieldrin	3934300	3972675	5124900	4343958	15.6
4,4'-DDE	3627800	3757850	4911069	4098906	17.2
Endrin	3441600	3523650	4583013	3849421	16.5
Endosulfan II	3721200	3688900	4058050	3822717	5.3
4,4'-DDD	2803200	2916550	3654463	3124738	14.8
Endosulfan sulfate	4059100	4176650	4584931	4273560	6.5
4,4'-DDT	3510200	3752700	4811506	4024802	17.2
Methoxychlor	2828960	3041375	3176870	3015735	5.8
Endrin ketone	3750400	4024500	4542594	4105831	9.8
Endrin aldehyde	3177600	3131375	3142450	3150475	0.8
alpha-Chlordane	5556000	5479700	5773075	5602925	2.7
gamma-Chlordane	5806000	5540600	5634863	5660488	2.4
Tetrachloro-m-xylene	4461200	4659500	5245963	4788888	8.5
Decachlorobiphenyl	5808900	5448150	5626488	5627846	3.2

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6E
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB1701 ID: .53 (mm) Date(s) Analyzed: 05/08/94 05/08/94

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	8582000	9837250	12677925	10365725	20.2
beta-BHC	6277600	6300700	6491175	6356492	1.8
delta-BHC	7751600	8465350	10937113	9051354	18.5
gamma-BHC (Lindane)	9059600	10036750	12351813	10482721	16.1
Heptachlor	14041400	13229450	13597500	13622783	3.0
Aldrin	9407400	9650200	11103375	10053658	9.1
Heptachlor epoxide	11728400	11254850	11606475	11529908	2.1
Endosulfan I	10854000	10315400	10748950	10639450	2.7
Dieldrin	9625100	9708250	11144813	10159388	8.4
4,4'-DDE	7770400	8158250	9875888	8601513	13.0
Endrin	9279600	9337525	10626888	9748004	7.8
Endosulfan II	10115200	9949000	10350444	10138215	2.0
4,4'-DDD	6135800	6414200	8063319	6871106	15.2
Endosulfan sulfate	8823900	8804600	9168306	8932269	2.3
4,4'-DDT	7646000	8054550	9536606	8412385	11.8
Methoxychlor	5700240	5526810	5018163	5415071	6.5
Endrin ketone	8463300	9361550	10213888	9346246	9.4
Endrin aldehyde	5832200	7309850	7073394	6738481	11.8
alpha-Chlordane	12195600	11902050	12193625	12097092	1.4
gamma-Chlordane	12792600	12200100	12091513	12361404	3.1
Tetrachloro-m-xylene	9727000	9380900	9353275	9487058	2.2
Decachlorobiphenyl	14183200	13050275	11696513	12976663	9.6

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Instrument ID: HP58909 Date(s) Analyzed: 05/08/94 05/08/94

GC Column: DB608 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	17.45	17.38	17.52	175318
		*2	19.81	19.74	19.88	177542
		*3	19.98	19.91	20.05	204316
		4				
		5				
Aroclor 1016	0.10	*1	6.93	6.86	7.00	134470
		*2	8.16	8.09	8.23	339960
		*3	9.37	9.30	9.44	503680
		4				
		5				
Aroclor 1221	0.20	*1	4.79	4.72	4.86	85695
		*2	6.35	6.28	6.42	59220
		*3	6.93	6.86	7.00	160750
		4				
		5				
Aroclor 1232	0.10	*1	6.93	6.86	7.00	144040
		*2	8.16	8.09	8.23	161050
		*3	9.37	9.30	9.44	213790
		4				
		5				
Aroclor 1242	0.10	*1	6.93	6.86	7.00	134730
		*2	8.16	8.09	8.23	269200
		*3	9.37	9.30	9.44	388490
		4				
		5				
Aroclor 1248	0.10	*1	9.35	9.28	9.42	249420
		*2	11.84	11.77	11.91	257740
		*3	14.40	14.33	14.47	180070
		4				
		5				
Aroclor 1254	0.10	*1	13.84	13.77	13.91	385360
		*2	15.85	15.78	15.92	433330
		*3	18.11	18.04	18.18	329000
		4				
		5				
Aroclor 1260	0.10	*1	16.76	16.69	16.83	429010
		*2	18.22	18.15	18.29	269860
		*3	19.63	19.56	19.70	558540
		4				
		5				

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Instrument ID: HP58909 Date(s) Analyzed: 05/08/94 05/08/94

GC Column: DB1701 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	13.88	13.81	13.95	322834
		*2	14.87	14.80	14.94	507012
		*3	16.34	16.27	16.41	489616
		4				
		5				
Aroclor 1016	0.10	*1	5.26	5.19	5.33	606410
		*2	6.22	6.15	6.29	1056490
		*3	7.06	6.99	7.13	788390
		4				
		5				
Aroclor 1221	0.20	*1	3.25	3.18	3.32	194100
		*2	4.24	4.17	4.31	98570
		*3	4.59	4.52	4.66	312425
		4				
		5				
Aroclor 1232	0.10	*1	4.59	4.52	4.66	300910
		*2	5.26	5.19	5.33	269650
		*3	6.22	6.15	6.29	468030
		4				
		5				
Aroclor 1242	0.10	*1	5.26	5.19	5.33	454980
		*2	6.21	6.14	6.28	827700
		*3	7.06	6.99	7.13	580390
		4				
		5				
Aroclor 1248	0.10	*1	6.21	6.14	6.28	539170
		*2	7.05	6.98	7.12	998220
		*3	8.90	8.83	8.97	1194380
		4				
		5				
Aroclor 1254	0.10	*1	8.87	8.80	8.94	944150
		*2	11.06	10.99	11.13	848020
		*3	13.97	13.90	14.04	943470
		4				
		5				
Aroclor 1260	0.10	*1	12.57	12.50	12.64	826570
		*2	15.26	15.19	15.33	536500
		*3	16.23	16.16	16.30	1304830
		4				
		5				

* Denotes required peaks

6G

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): HP58909

EPA Sample No. (Standard 1): RESC11 Lab Sample ID (1): CK*RESC*1

Date Analyzed (1): 05/08/94 Time Analyzed (1): 1234

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.34	100
02	gamma-Chlordane	13.52	100
03	Endosulfan I	14.30	100
04	4,4'-DDE	15.31	79.4
05	Dieldrin	15.49	100
06	Endosulfan sulfate	18.75	100
07	Methoxychlor	20.64	98.4
08	Endrin ketone	20.88	100
09	Decachlorobiphenyl	25.12	

GC column (2): DB1701 ID:.53 (mm) Instrument Id (2): HP58909

EPA Sample No. (Standard 2): RESC21 Lab sample ID (2): CK*RESC*1

Date Analyzed (2): 05/08/94 Time Analyzed (2): 1313

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.71	100
02	Endosulfan I	9.93	93.9
03	gamma-Chlordane	10.19	100
04	4,4"-DDE	10.83	100
05	Dieldrin	11.28	100
06	Endosulfan sulfate	16.60	93.4
07	Methoxychlor	16.85	100
08	Endrin ketone	17.71	100
09	Decachlorobiphenyl	19.90	

Resolution of two adjacent peaks must be calculated as a percentage of the height of the smaller peak, and must be greater than or equal to 60.0%.

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 05/08/94 05/08/94

EPA Sample No. (PIBLK): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM): PEM11 Date Analyzed: 05/08/94

Lab Sample ID (PEM): CK*PEM*1 Time Analyzed: 1313

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.04	6.99	7.09	0.0098	0.010	2.0
beta-BHC	8.44	8.39	8.49	0.010	0.010	0.0
gamma-BHC (Lindane)	8.22	8.17	8.27	0.0098	0.010	2.0
Endrin	16.76	16.69	16.83	0.050	0.050	0.0
4,4'-DDT	18.16	18.08	18.22	0.12	0.10	20.0
Methoxychlor	20.64	20.57	20.71	0.25	0.25	0.0

4,4'-DDT % breakdown (1): 1.6 Endrin % breakdown (1): 7.1

Combined % breakdown (1): 8.7

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 05/08/94 05/08/94

EPA Sample No. (PIBLK): PIBLK11 Date Analyzed: 05/08/94

Lab Sample ID (PIBLK): MB*PIBLK*1 Time Analyzed: 2218

EPA Sample No. (PEM): PEM12 Date Analyzed: 05/08/94

Lab Sample ID (PEM): CK*PEM*2 Time Analyzed: 2257

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.04	6.99	7.09	0.0096	0.010	4.0
beta-BHC	8.44	8.39	8.49	0.010	0.010	0.0
gamma-BHC (Lindane)	8.22	8.17	8.27	0.0096	0.010	4.0
Endrin	16.76	16.69	16.83	0.048	0.050	4.0
4,4'-DDT	18.16	18.08	18.22	0.11	0.10	10.0
Methoxychlor	20.64	20.57	20.71	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 1.8 Endrin % breakdown (1): 8.3

Combined % breakdown (1): 10.1

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 05/08/94 05/08/94

EPA Sample No. (PIBLK): PIBLK13 Date Analyzed: 05/09/94

Lab Sample ID (PIBLK): MB*PIBLK*3 Time Analyzed: 1225

EPA Sample No. (PEM): PEM13 Date Analyzed: 05/09/94

Lab Sample ID (PEM): CK*PEM*3 Time Analyzed: 1309

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.04	6.99	7.09	0.0096	0.010	4.0
beta-BHC	8.43	8.39	8.49	0.0100	0.010	0.0
gamma-BHC (Lindane)	8.21	8.17	8.27	0.0096	0.010	4.0
Endrin	16.75	16.69	16.83	0.048	0.050	4.0
4,4'-DDT	18.15	18.08	18.22	0.11	0.10	10.0
Methoxychlor	20.64	20.57	20.71	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 1.8 Endrin % breakdown (1): 5.1

Combined % breakdown (1): 6.9

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 05/08/94 05/08/94

EPA Sample No. (PIBLK): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM): PEM21 Date Analyzed: 05/08/94

Lab Sample ID (PEM): CK*PEM*1 Time Analyzed: 1352

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.13	5.08	5.18	0.0092	0.010	8.0
beta-BHC	7.89	7.84	7.94	0.010	0.010	0.0
gamma-BHC (Lindane)	5.93	5.88	5.98	0.0093	0.010	7.0
Endrin	12.03	11.95	12.09	0.048	0.050	4.0
4,4'-DDT	14.68	14.60	14.74	0.11	0.10	10.0
Methoxychlor	16.85	16.77	16.91	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 0.6 Endrin % breakdown (1): 4.2

Combined % breakdown (1): 4.8

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 05/08/94 05/08/94

EPA Sample No. (PIBLK): PIBLK11 Date Analyzed: 05/08/94

Lab Sample ID (PIBLK): MB*PIBLK*1 Time Analyzed: 2257

EPA Sample No. (PEM): PEM22 Date Analyzed: 05/08/94

Lab Sample ID (PEM): CK*PEM*2 Time Analyzed: 2336

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.13	5.08	5.18	0.0092	0.010	8.0
beta-BHC	7.88	7.84	7.94	0.011	0.010	10.0
gamma-BHC (Lindane)	5.93	5.88	5.98	0.0093	0.010	7.0
Endrin	12.03	11.95	12.09	0.048	0.050	4.0
4,4'-DDT	14.68	14.60	14.74	0.11	0.10	10.0
Methoxychlor	16.84	16.77	16.91	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 0.7 Endrin % breakdown (1): 4.3

Combined % breakdown (1): 5.0

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 05/08/94 05/08/94

EPA Sample No. (PIBLK): PIBLK13 Date Analyzed: 05/09/94

Lab Sample ID (PIBLK): MB*PIBLK*3 Time Analyzed: 1309

EPA Sample No. (PEM): PEM23 Date Analyzed: 05/09/94

Lab Sample ID (PEM): CK*PEM*3 Time Analyzed: 1348

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.13	5.08	5.18	0.0091	0.010	9.0
beta-BHC	7.88	7.84	7.94	0.010	0.010	0.0
gamma-BHC (Lindane)	5.93	5.88	5.98	0.0092	0.010	8.0
Endrin	12.02	11.95	12.09	0.048	0.050	4.0
4,4'-DDT	14.67	14.60	14.74	0.11	0.10	10.0
Methoxychlor	16.84	16.77	16.91	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 0.7 Endrin % breakdown (1): 4.3

Combined % breakdown (1): 5.0

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 49096

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s) 05/08/94 05/08/94

EPA Sample No.(PIBLK): PIBLK12 Date Analyzed: 05/09/94

Lab Sample ID (PIBLK): MB*PIBLK*2 Time Analyzed: 0606

EPA Sample No.(INDA): INDAM12 Date Analyzed: 05/09/94

Lab Sample ID (INDA): CCS*INDAM*2 Time Analyzed: 0644

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.04	6.99	7.09	0.019	0.020	5.0
gamma-BHC (Lindane)	8.22	8.17	8.27	0.019	0.020	5.0
Heptachlor	9.30	9.25	9.35	0.019	0.020	5.0
Endosulfan I	14.30	14.23	14.37	0.019	0.020	5.0
Dieldrin	15.49	15.42	15.56	0.039	0.040	2.5
Endrin	16.76	16.69	16.83	0.039	0.040	2.5
4,4'-DDD	17.24	17.17	17.31	0.039	0.040	2.5
4,4'-DDT	18.16	18.08	18.22	0.039	0.040	2.5
Methoxychlor	20.64	20.57	20.71	0.20	0.20	0.0
Tetrachloro-m-xylene	5.34	5.29	5.39	0.020	0.020	0.0
Decachlorobiphenyl	25.12	25.02	25.22	0.039	0.040	2.5

EPA Sample No.(INDB): INDBM12 Date Analyzed : 05/09/94

Lab Sample ID (INDB): CCS*INDBM*2 Time Analyzed : 0723

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	8.44	8.39	8.49	0.019	0.020	5.0
delta-BHC	9.71	9.66	9.76	0.019	0.020	5.0
Aldrin	10.50	10.45	10.55	0.019	0.020	5.0
Heptachlor epoxide	12.80	12.73	12.87	0.019	0.020	5.0
4,4'-DDE	15.31	15.24	15.38	0.038	0.040	5.0
Endosulfan II	17.36	17.29	17.43	0.039	0.040	2.5
Endosulfan sulfate	18.75	18.68	18.82	0.038	0.040	5.0
Endrin ketone	20.88	20.81	20.95	0.038	0.040	5.0
Endrin aldehyde	18.39	18.32	18.46	0.038	0.040	5.0
alpha-Chlordane	14.22	14.15	14.29	0.019	0.020	5.0
gamma-Chlordane	13.51	13.44	13.58	0.019	0.020	5.0
Tetrachloro-m-xylene	5.34	5.29	5.39	0.019	0.020	5.0
Decachlorobiphenyl	25.12	25.02	25.22	0.039	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 49096

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s) 05/08/94 05/08/94

EPA Sample No.(PIBLK): PIBLK12 Date Analyzed: 05/09/94

Lab Sample ID (PIBLK): MB*PIBLK*2 Time Analyzed: 0644

EPA Sample No.(INDA): INDAM22 Date Analyzed: 05/09/94

Lab Sample ID (INDA): CCS*INDAM*2 Time Analyzed: 0723

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.13	5.08	5.18	0.020	0.020	0.0
gamma-BHC (Lindane)	5.94	5.88	5.98	0.020	0.020	0.0
Heptachlor	6.40	6.35	6.45	0.020	0.020	0.0
Endosulfan I	9.93	9.86	10.00	0.020	0.020	0.0
Dieldrin	11.28	11.21	11.35	0.040	0.040	0.0
Endrin	12.03	11.95	12.09	0.040	0.040	0.0
4,4'-DDD	14.06	13.99	14.13	0.040	0.040	0.0
4,4'-DDT	14.68	14.60	14.74	0.040	0.040	0.0
Methoxychlor	16.84	16.77	16.91	0.20	0.20	0.0
Tetrachloro-m-xylene	3.71	3.66	3.76	0.020	0.020	0.0
Decachlorobiphenyl	19.90	19.80	20.00	0.040	0.040	0.0

EPA Sample No.(INDB): INDBM22 Date Analyzed : 05/09/94

Lab Sample ID (INDB): CCS*INDBM*2 Time Analyzed : 0802

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	7.88	7.84	7.94	0.020	0.020	0.0
delta-BHC	8.58	8.54	8.64	0.020	0.020	0.0
Aldrin	7.07	7.02	7.12	0.020	0.020	0.0
Heptachlor epoxide	9.05	8.98	9.12	0.020	0.020	0.0
4,4'-DDE	10.83	10.76	10.90	0.040	0.040	0.0
Endosulfan II	14.07	14.01	14.15	0.040	0.040	0.0
Endosulfan sulfate	16.59	16.53	16.67	0.040	0.040	0.0
Endrin ketone	17.70	17.63	17.77	0.040	0.040	0.0
Endrin aldehyde	15.57	15.50	15.64	0.040	0.040	0.0
alpha-Chlordane	10.38	10.31	10.45	0.020	0.020	0.0
gamma-Chlordane	10.18	10.11	10.25	0.020	0.020	0.0
Tetrachloro-m-xylene	3.71	3.66	3.76	0.020	0.020	0.0
Decachlorobiphenyl	19.90	19.80	20.00	0.040	0.040	0.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 05/08/94 05/08/94

Instrument ID: HP58909

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.34 DCB: 25.12

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC11	CK*RESC*1	05/08/94	1234	5.34	25.12
02	PEM11	CK*PEM*1	05/08/94	1313	5.34	25.12
03	AR166011	ICV*AR1660*1	05/08/94	1352	5.34	25.12
04	AR122111	ICV*AR1221*1	05/08/94	1431	5.34	25.12
05	AR123211	ICV*AR1232*1	05/08/94	1510	5.34	25.12
06	AR124211	ICV*AR1242*1	05/08/94	1549	5.34	25.12
07	AR124811	ICV*AR1248*1	05/08/94	1628	5.34	25.12
08	AR125411	ICV*AR1254*1	05/08/94	1707	5.34	25.12
09	TOXAPH11	ICV*TOXAPH*1	05/08/94	1746	5.34	25.12
10	INDAL11	ICV*INDAL*1	05/08/94	1825	5.34	25.12
11	INDBL11	ICV*INDBL*1	05/08/94	1904	5.34	25.12
12	INDAM11	ICV*INDAM*1	05/08/94	1943	5.34	25.12
13	INDBM11	ICV*INDBM*1	05/08/94	2022	5.34	25.12
14	INDAH11	ICV*INDAH*1	05/08/94	2101	5.34	25.13
15	INDBH11	ICV*INDBH*1	05/08/94	2139	5.34	25.13
16	PIBLK11	MB*PIBLK*1	05/08/94	2218	5.34	25.12
17	PEM12	CK*PEM*2	05/08/94	2257	5.34	25.12
18	PIBLK12	MB*PIBLK*2	05/09/94	0606	5.34	25.12
19	INDAM12	CCS*INDAM*2	05/09/94	0644	5.34	25.12
20	INDBM12	CCS*INDBM*2	05/09/94	0723	5.34	25.12
21	PBLK1	MB*QC*1	05/09/94	0802	5.34	25.11
22	SV201001	CDMHNSS*30	05/09/94	0841	5.34	25.11
23	A0404008	CDMHNSS*29	05/09/94	0926	5.34	25.11
24	SV201001MS	SPM1*CDMHNSS	05/09/94	1011	5.34	25.11
25	SV201001MSD	SPM2*CDMHNSS	05/09/94	1056	5.34	25.11
26	PIBLK13	MB*PIBLK*3	05/09/94	1225	5.34	25.11
27	PEM13	CK*PEM*3	05/09/94	1309	5.34	25.11
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 05/08/94 05/08/94

Instrument ID: HP58909

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.71 DCB: 19.90

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC21	CK*RESC*1	05/08/94	1313	3.71	19.90
02	PEM21	CK*PEM*1	05/08/94	1352	3.71	19.90
03	AR166021	ICV*AR1660*1	05/08/94	1431	3.71	19.90
04	AR122121	ICV*AR1221*1	05/08/94	1510	3.71	19.90
05	AR123221	ICV*AR1232*1	05/08/94	1549	3.71	19.90
06	AR124221	ICV*AR1242*1	05/08/94	1628	3.71	19.90
07	AR124821	ICV*AR1248*1	05/08/94	1707	3.71	19.90
08	AR125421	ICV*AR1254*1	05/08/94	1746	3.71	19.90
09	TOXAPH21	ICV*TOXAPH*1	05/08/94	1825	3.71	19.90
10	INDAL21	ICV*INDAL*1	05/08/94	1904	3.71	19.90
11	INDBL21	ICV*INDBL*1	05/08/94	1943	3.71	19.90
12	INDAM21	ICV*INDAM*1	05/08/94	2022	3.71	19.90
13	INDBM21	ICV*INDBM*1	05/08/94	2101	3.71	19.90
14	INDAH21	ICV*INDAH*1	05/08/94	2139	3.71	19.90
15	INDBH21	ICV*INDBH*1	05/08/94	2218	3.71	19.90
16	PIBLK21	MB*PIBLK*1	05/08/94	2257	3.71	19.90
17	PEM22	CK*PEM*2	05/08/94	2336	3.71	19.90
18	PIBLK22	MB*PIBLK*2	05/09/94	0644	3.71	19.90
19	INDAM22	CCS*INDAM*2	05/09/94	0723	3.71	19.90
20	INDBM22	CCS*INDBM*2	05/09/94	0802	3.71	19.90
21	PBLK1	MB*QC*1	05/09/94	0841	3.71	19.90
22	SV201001	CDMHNSS*30	05/09/94	0926	3.71	19.90
23	A0404008	CDMHNSS*29	05/09/94	1011	3.71	19.89
24	SV201001MS	SPM1*CDMHNSS	05/09/94	1056	3.71	19.89
25	SV201001MSD	SPM2*CDMHNSS	05/09/94	1140	3.71	19.89
26	PIBLK23	MB*PIBLK*3	05/09/94	1309	3.71	19.89
27	PEM23	CK*PEM*3	05/09/94	1348	3.71	19.89
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

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

9A

PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Florisil Cartridge Lot Number: G27570 Date of Analysis: 9-20-93

GC Column(1): DB608 ID: .53 (mm) GC Column (2): DB1701 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC	0.010	0.010	100.0	80-120
gamma-BHC (Lindane)	0.010	0.011	110.0	80-120
Heptachlor	0.010	0.011	110.0	80-120
Endosulfan I	0.010	0.011	110.0	80-120
Dieldrin	0.020	0.021	105.0	80-120
Endrin	0.020	0.021	105.0	80-120
4,4'-DDD	0.020	0.021	105.0	80-120
4,4'-DDT	0.020	0.022	110.0	80-120
Methoxychlor	0.10	0.11	110.0	80-120
Tetrachloro-m-xylene	0.010	0.011	110.0	80-120
Decachlorobiphenyl	0.020	0.023	115.0	80-120

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

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK1	MB*QC*1	05/09/94	05/09/94
02	SV201001	CDMHNSS*30	05/09/94	05/09/94
03	A0404008	CDMHNSS*29	05/09/94	05/09/94
04	SV201001MS	SPM1*CDMHNSS	05/09/94	05/09/94
05	SV201001MSD	SPM2*CDMHNSS	05/09/94	05/09/94
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				

9B
PESTICIDE GPC CALIBRATION

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

GPC Column 531002A Calibration Date: 5-3-94

GC Column(1): DB608 ID: .53 (mm) GC Column (2): DB1701 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	50	39	80	80-110
Heptachlor	50	41	80	80-110
Aldrin	50	43	90	80-110
Dieldrin	100	100	100	80-110
Endrin	100	110	110	80-110
4,4'-DDT	100	100	100	80-110

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

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK1	MB*QC*1	05/09/94	05/09/94
02	SV201001	CDMHNSS*30	05/09/94	05/09/94
03	A0404008	CDMHNSS*29	05/09/94	05/09/94
04	SV201001MS	SPM1*CDMHNSS	05/09/94	05/09/94
05	SV201001MSD	SPM2*CDMHNSS	05/09/94	05/09/94
06				
07				
08				
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26				

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

SV201001

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Lab Sample ID : CDMHNSS*30 Date(s) Analyzed: 05/09/94 05/09/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	15.31	15.24	15.38	39.17	
	2	10.83	10.76	10.90	37.21	5.3
4,4'-DDT	1	18.15	18.08	18.22	15.12	
	2	14.67	14.60	14.74	14.46	4.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

9513355.1424

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

SV201001MS

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Lab Sample ID : SPM1*CDMHNSS*30 Date(s) Analyzed: 05/09/94 05/09/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.21	8.17	8.27	15.73	
	2	5.93	5.88	5.98	15.53	1.3
Heptachlor	1	9.30	9.25	9.35	14.02	
	2	6.40	6.35	6.45	14.12	0.7
Aldrin	1	10.49	10.45	10.55	14.59	
	2	7.07	7.02	7.12	13.30	9.7
Dieldrin	1	15.48	15.42	15.56	32.66	
	2	11.27	11.21	11.35	31.09	5.0
4,4'-DDE	1	15.30	15.24	15.30	33.37	
	2	10.82	10.76	10.90	33.52	0.4
Endrin	1	16.75	16.69	16.75	31.78	
	2	12.02	11.95	12.02	30.06	5.7
4,4'-DDT	1	18.15	18.08	18.15	50.20	
	2	14.67	14.60	14.74	46.14	8.8
	1					
	2					

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

SV201001MSD

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Lab Sample ID : SPM2*CDMHNSS*30 Date(s) Analyzed: 05/09/94 05/09/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.21	8.17	8.27	20.35	
	2	5.93	5.88	5.98	20.41	0.3
Heptachlor	1	9.30	9.25	9.35	18.03	
	2	6.40	6.35	6.45	17.71	1.8
Aldrin	1	10.49	10.45	10.55	17.98	
	2	7.07	7.02	7.12	17.31	3.9
Dieldrin	1	15.49	15.42	15.56	44.48	
	2	11.27	11.21	11.35	39.87	11.6
4,4'-DDE	1	15.31	15.24	15.31	52.43	
	2	10.82	10.76	10.90	50.58	3.7
Endrin	1	16.75	16.69	16.75	43.41	
	2	12.02	11.95	12.02	39.14	10.9
4,4'-DDT	1	18.15	18.08	18.15	64.94	
	2	14.67	14.60	14.74	58.20	11.6
	1					
	2					

9513355.1426

Software Version: 4.0<1C29>
Sample Name : CK*RESC*1 Time : 5/13/94 10:18 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 12:34 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A005.RAW
Result File : C:\TC4\HP58909\999A005.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A005.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A005.RST
Calib Method : C:\TC4\HP58909\999ARES from C:\TC4\HP58909\999A005.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 14

DATA REPORT

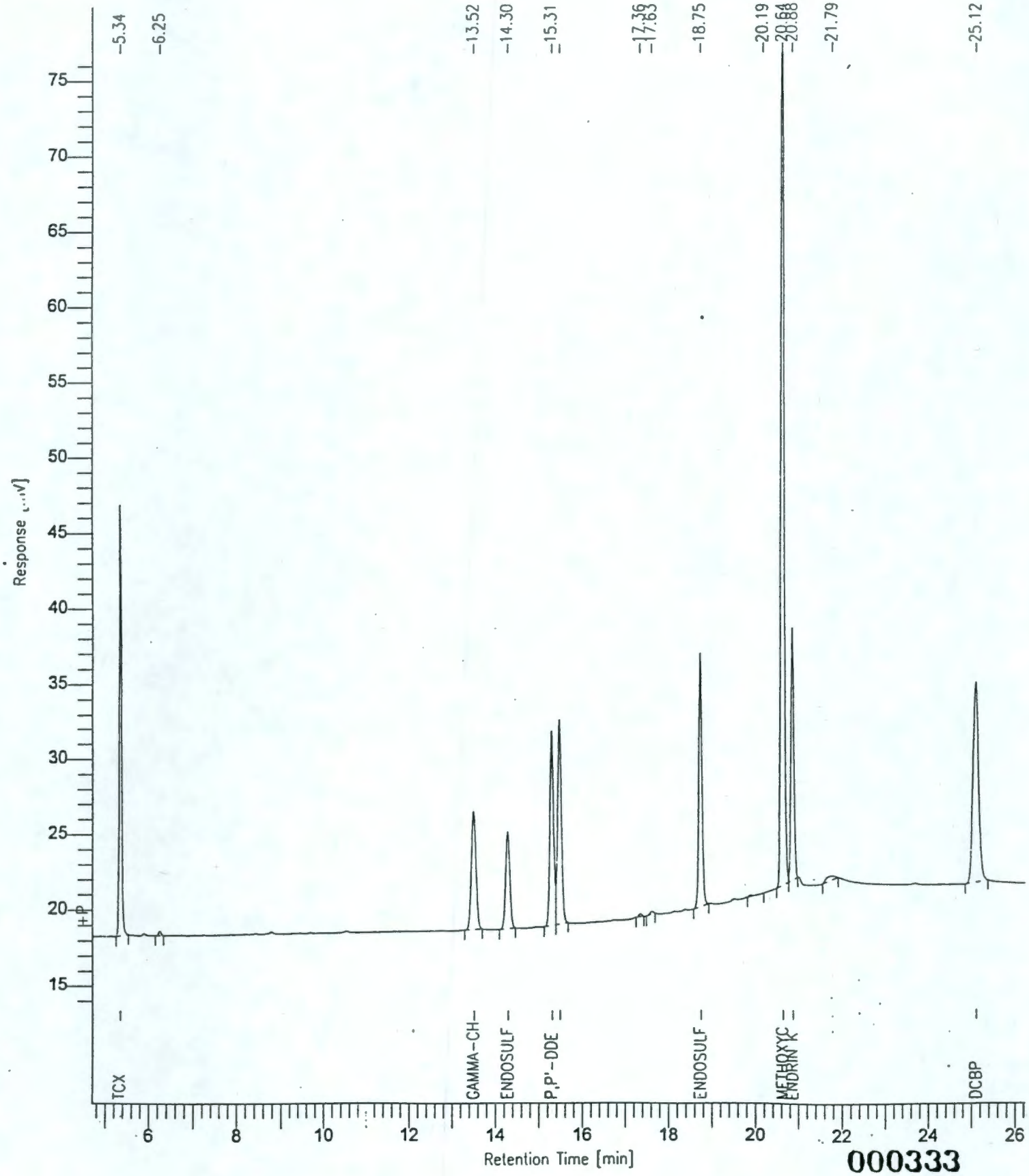
Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
1	5.343	TCX	99404	B	28631	2e-15	0.0200
3	13.516	GAMMA-CHLORDANE	59016	B	7926	-9e-16	0.0100
4	14.303	ENDOSULFAN A	44272	B	6511	-8e-16	0.0100
5	15.313	P,P'-DDE	76745	B	13092	-2e-15	0.0200
6	15.493	DIELDRIN	83674	V	13697	-4e-15	0.0200
9	18.754	ENDOSULFAN SULFATE	86858	B	17022	-9e-15	0.0200
11	20.644	METHOXYCHLOR	311467	B	62580	-7e-15	0.1000
12	20.878	ENDRIN KETONE	81452	V	16841	-6e-15	0.0200
14	25.122	DCBP	118378	B	13357	2e-15	0.0200
			961265		179656		0.2400

9513355.1427

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\999A005.RAW
Method :
Start Time : 4.70 min End Time : 26.24 min
Scale Factor: 0.0 Plot Offset: 13 mV

Sample #:
Date : 5/13/94 10:18 AM
Time of Injection: 5/8/94 12:34 PM
Low Point : 13.39 mV High Point : 76.82 mV
Plot Scale: 63.4 mV

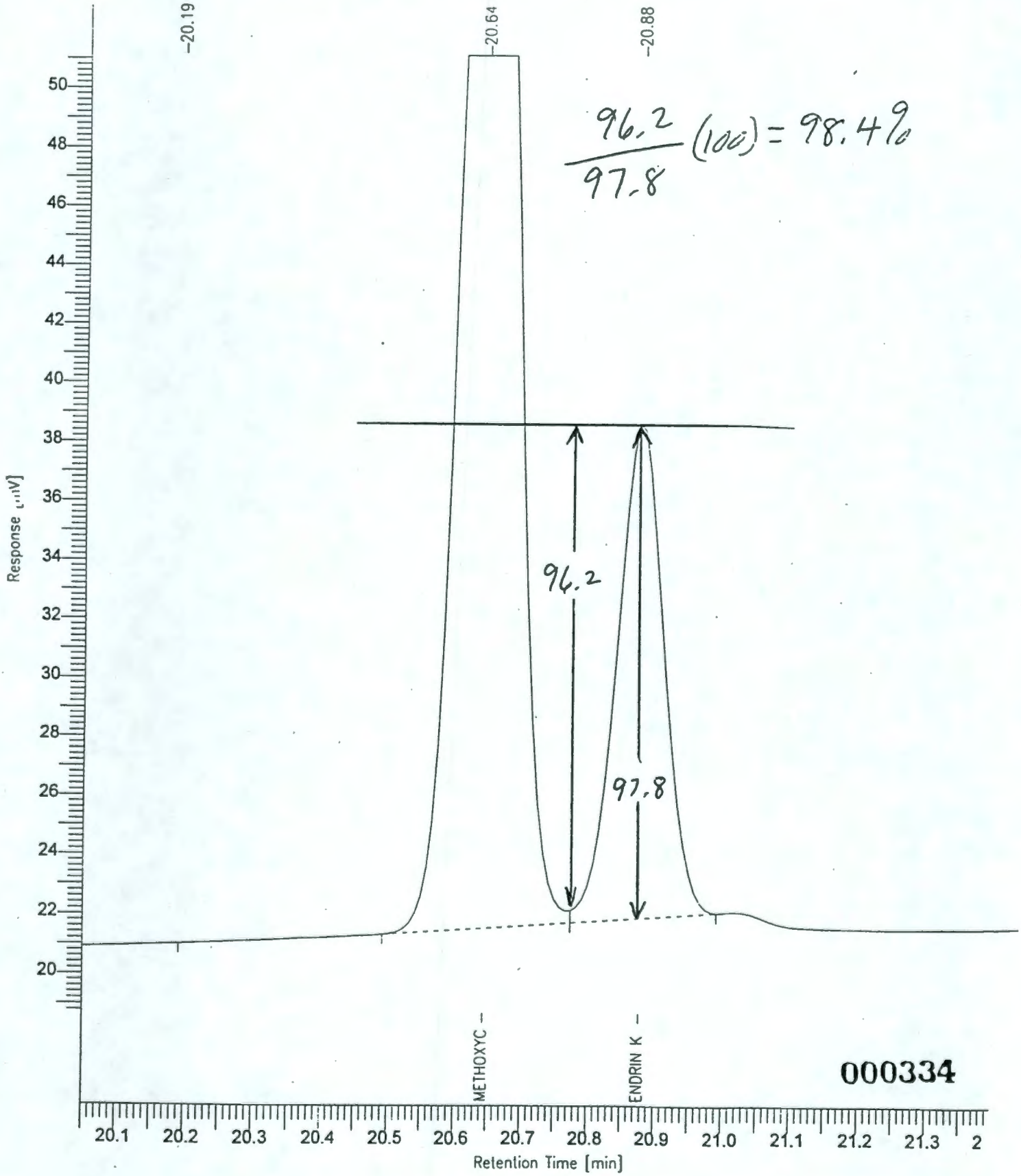


9513355.1428

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\999A005.RAW
Method :
Start Time : 20.05 min End Time : 21.44 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #:
Date : 5/13/94 10:20 AM
Time of Injection: 5/8/94 12:34 PM
Low Point : 18.74 mV High Point : 51.17 mV
Plot Scale: 32.4 mV



$$\frac{96.2}{97.8}(100) = 98.4\%$$

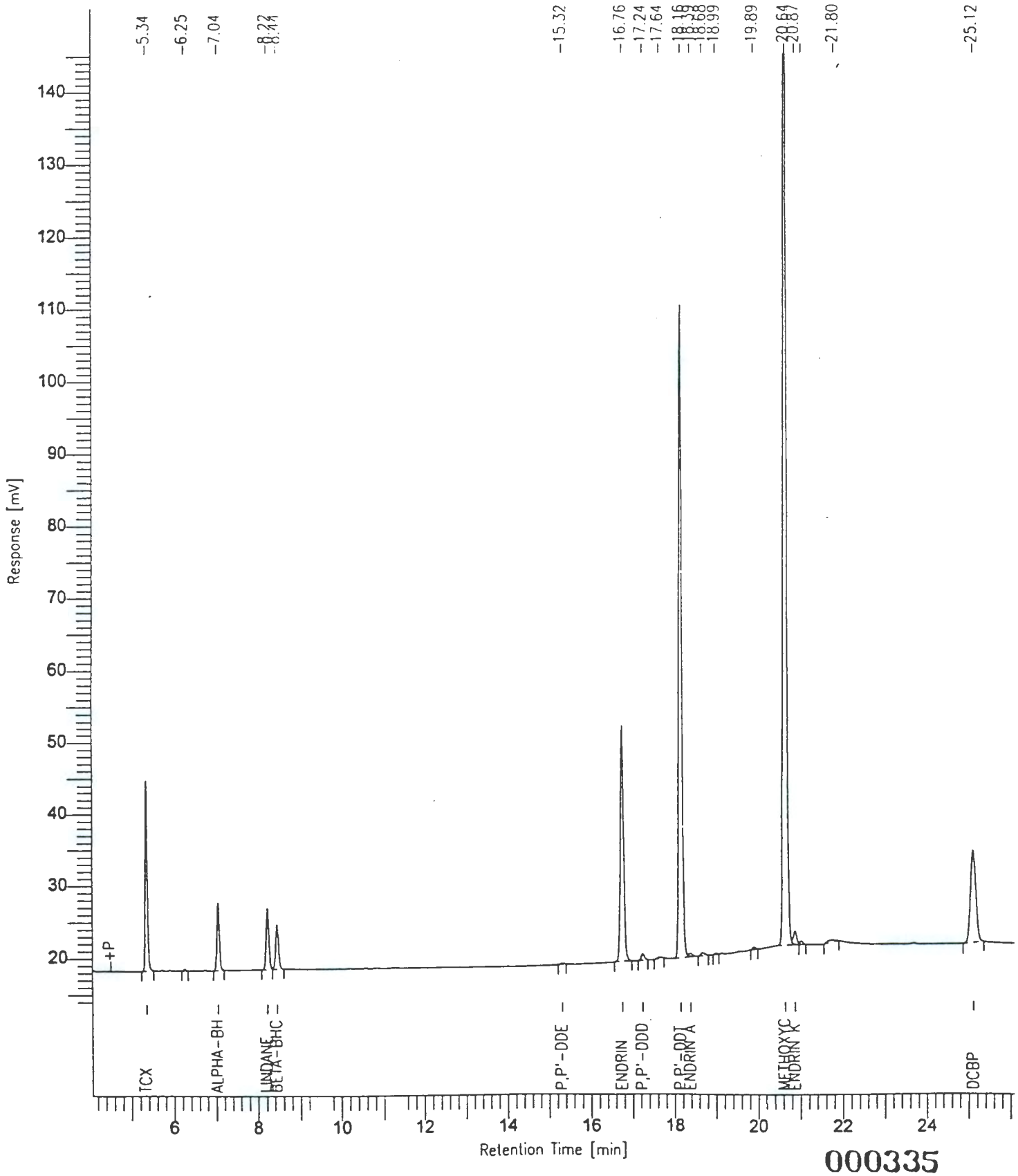
000334

9513355.1429

Chromatogram

Sample Name : CK*PEM*1
FileName : C:\TC4\HP58909\999A006.RAW
Method :
Start Time : 4.07 min End Time : 26.09 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #:
Date : 5/13/94 10:20 AM
Time of Injection: 5/8/94 01:13 PM
Low Point : 13.68 mV High Point : 145.27 mV
Plot Scale: 131.6 mV



000335

9513355.1450

Software Vers
Sample Name
Sample Numbe
Operator

Time : 5/14/94 03:34 PM
Study :

Instrument
AutoSampler
Rack/Vial

A/D mV Range : 1000

Interface Se
Delay Time
End Time
Sampling Rate

Injection Time: 5/8/94 01:52 PM

Raw Data File
Result File
Inst Method
Proc Method
Calib Method
Sequence File

.RST
999A007.RST
HP58909\999A007.RST

Sample Volume
Sample Amount

Reject : 3333.000000
Dilution Factor : 1.00

Noise Threshol
Multiplier

Bunch Factor: 1
: 0.0000

Instrument Con
HP58909 GC #
CHANNEL A:
CHANNEL B:

Total number of

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [s]	NG INDEXED
2	5.342	TCX	95036	B	2[illegible]	[illegible]e-15	0.1070
6	6.931	PCB-1016-1	17147	B	[illegible]	[illegible]e-15	0.1000
8	8.159	PCB-1016-2	[illegible]	V	[illegible]	[illegible]e-15	0.1000
10	8.857		[illegible]	B	[illegible]	-------	[illegible]
11	9.136		[illegible]	B	[illegible]	-------	[illegible]
12	9.366	PCB-1016-3	[illegible]	V	[illegible]	[illegible]e-15	0.1000
13	9.958		[illegible]	B	[illegible]	-------	1.9966e-07
15	10.537		[illegible]	B	[illegible]	-------	[illegible]
16	10.730		[illegible]	B	[illegible]	-------	[illegible]
18	11.838		[illegible]	B	[illegible]	-------	2.0131e-07
19	12.009		[illegible]	V	[illegible]	-------	7.6848e-05
20	12.351		[illegible]	[illegible]	[illegible]	-------	1.1892e-07

000336

Result File : 999A007.RST, Printed On 5/14/94 03:34 PM

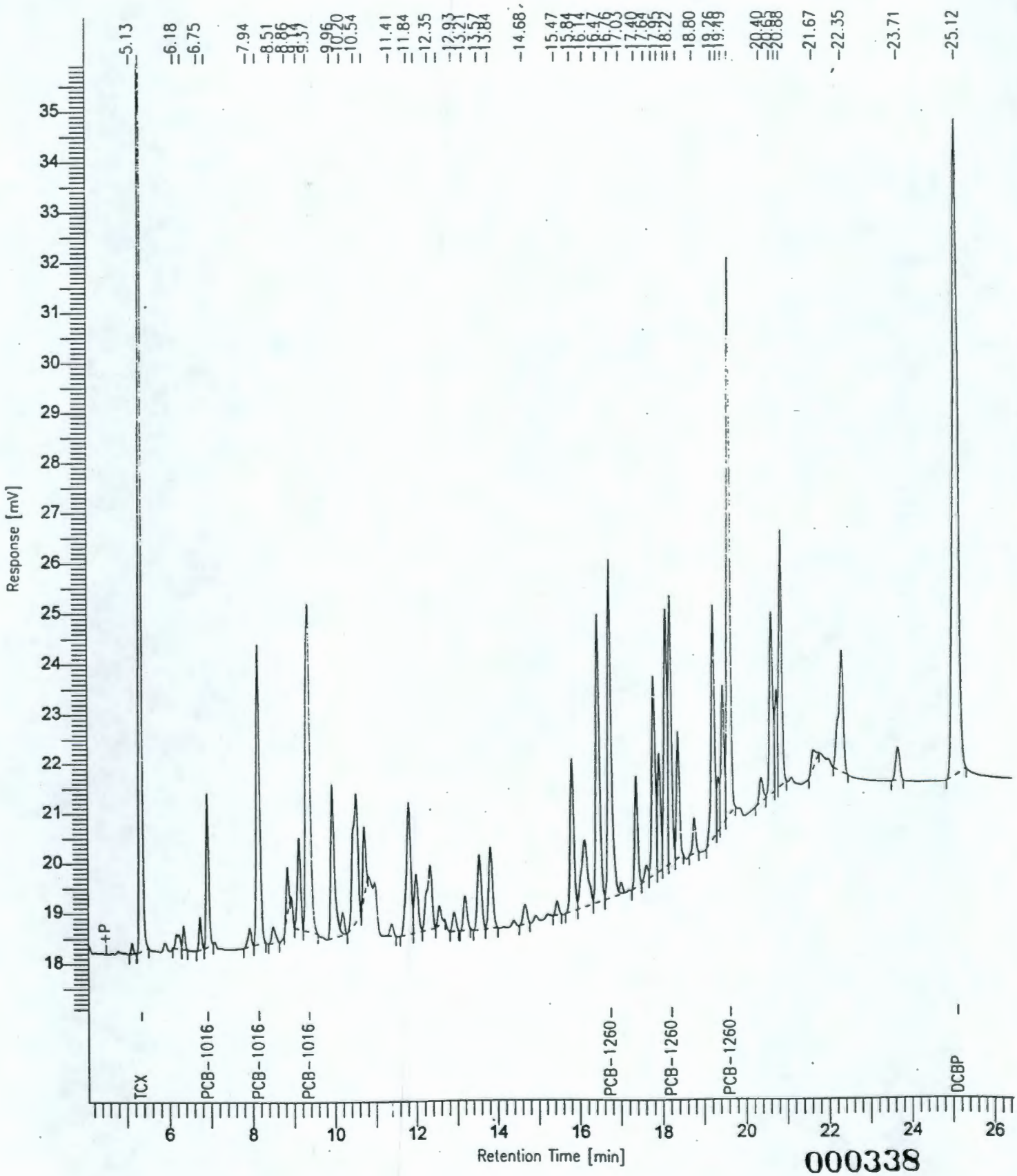
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
23	13.210		4438	B	685	-------	4.4375e-08
24	13.568		10558	B	1513	-------	1.0558e-07
25	13.842		11154	V	1636	-------	1.1154e-07
28	15.839		18996	B	3098	-------	1.8996e-07
29	16.142		15196	V	1346	-------	1.5197e-07
30	16.467		36445	V	5768	-------	3.6445e-07
31	16.758	PCB-1260-1	42901	V	6771	-1e-14	0.1000
33	17.396		11580	B	2243	-------	1.1580e-07
35	17.817		23847	V	3997	-------	2.3847e-07
36	17.947		12340	V	2393	-------	1.2340e-07
37	18.113		29606	V	5178	-------	2.9606e-07
38	18.217	PCB-1260-2	26986	V	5356	1e-15	0.1000
39	18.406		12685	V	2562	-------	1.2685e-07
40	18.798		3627	B	715	-------	3.6270e-08
41	19.258		25541	B	4673	-------	2.5541e-07
42	19.377		4943	V	1091	-------	4.9432e-08
43	19.487		14282	V	2813	-------	1.4282e-07
44	19.632	PCB-1260-3	55854	V	11144	-4e-15	0.1000
46	20.649		21270	V	3628	-------	2.1270e-07
47	20.774		8747	V	2005	-------	8.7466e-08
48	20.880		26462	V	5118	-------	2.6462e-07
50	22.349		19278	B	2407	-------	1.9278e-07
51	23.706		4648	B	665	-------	4.6475e-08
52	25.121	DCBP	114092	B	13098	-4e-15	0.0200
			852407		148465		0.6400

9513355.1432

Chromatogram

Sample Name : ICV*AR1660*1
FileName : C:\TC4\HP58909\999A007.RAW
Method :
Start Time : 4.06 min End Time : 26.48 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/14/94 03:34 PM
Time of Injection: 5/8/94 01:52 PM
Low Point : 17.08 mV High Point : 35.95 mV
Plot Scale: 18.9 mV



9513355.1453

Software Version: 4.0<1C29>
Sample Name : ICV*AR1221*1 Time : 5/13/94 10:22 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 02:31 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A008.RAW
Result File : C:\TC4\HP58909\999A008.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A008.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A008.RST
Calib Method : C:\TC4\HP58909\999A1221 from C:\TC4\HP58909\999A008.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 24

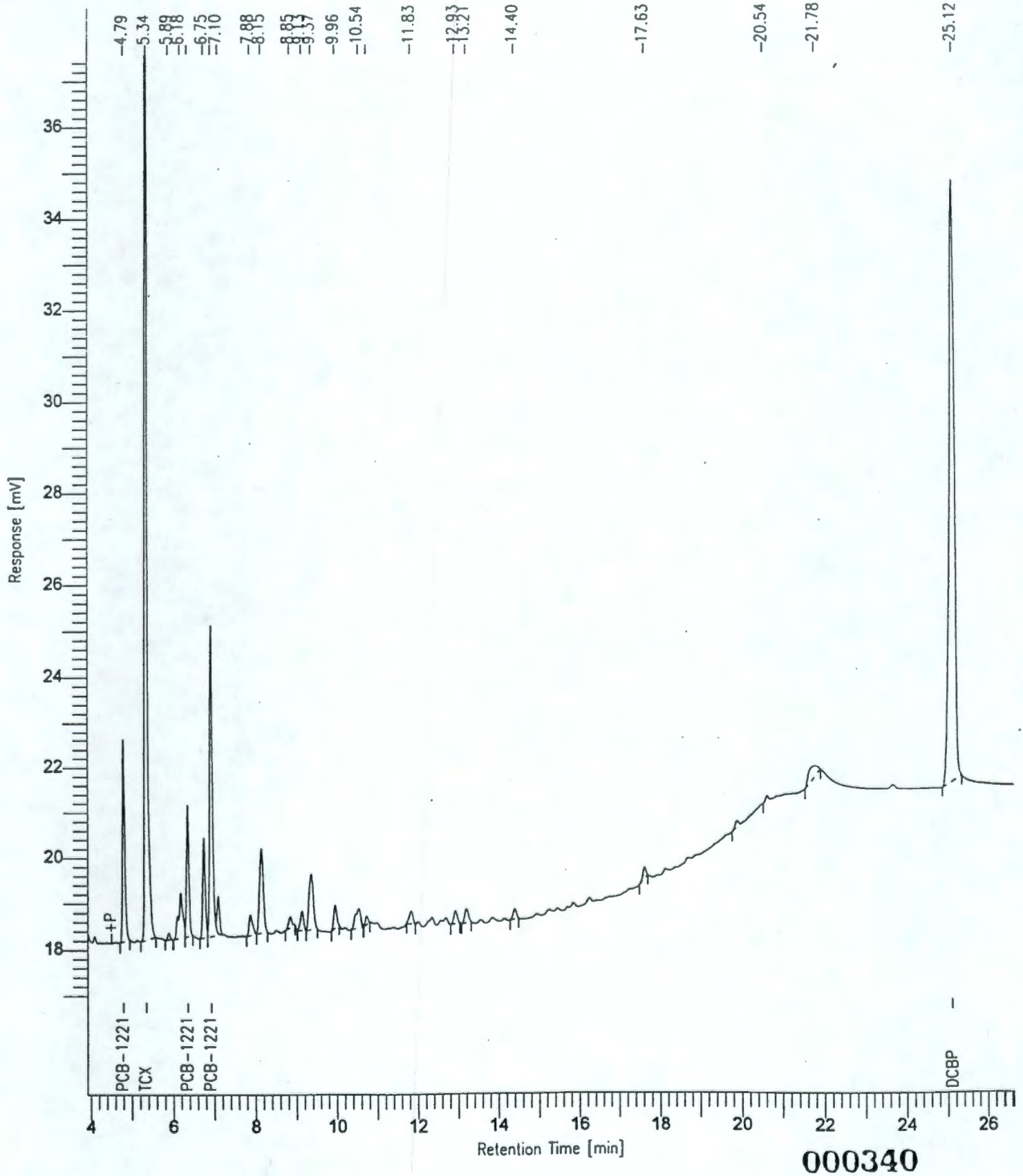
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	4.793	PCB-1221-1	17139	B	4472	6e-15	0.2000
2	5.341	TCX	102611	B	28159	-1e-15	0.0200
4	6.182		7201	B	973	-------	7.2005e-08
5	6.353	PCB-1221-2	11844	V	2894	0.0000	0.2000
6	6.751		9554	B	2184	-------	9.5539e-08
7	6.929	PCB-1221-3	32150	V	6895	3e-15	0.2000
8	7.101		3424	E	805	-------	3.4245e-08
10	8.149		11844	V	1844	-------	1.1844e-07
13	9.365		9019	B	1213	-------	9.0188e-08
15	10.537		3844	B	424	-------	3.8440e-08
23	21.779		4232	B	253	-------	4.2318e-08
24	25.119	DCBP	115536	B	13178	3e-15	0.0200

Chromatogram

Sample Name : ICV*AR1221*1
FileName : C:\TC4\HP58909\999A008.RAW
Method :
Start Time : 3.92 min End Time : 26.62 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/13/94 10:22 AM
Time of Injection: 5/8/94 02:31 PM
Low Point : 16.87 mV High Point : 37.59 mV
Plot Scale: 20.7 mV



000340

9513355.1435

Software Version: 4.0<1C29>
Sample Name : ICV*AR1232*1 Time : 5/13/94 10:22 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 03:10 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A009.RAW
Result File : C:\TC4\HP58909\999A009.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A009.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A009.RST
Calib Method : C:\TC4\HP58909\999A1232 from C:\TC4\HP58909\999A009.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 30

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	4.794		4585	B	1243	-------	4.5850e-08
2	5.341	TCX	97068	B	28100	7e-15	0.0200
4	6.352		3359	B	920	-------	3.3595e-08
5	6.751		3555	B	865	-------	3.5550e-08
6	6.929	PCB-1232-1	14404	B	3348	-2e-15	0.1000
8	8.157	PCB-1232-2	16105	V	2792	0.0000	0.1000
9	8.854		5018	B	619	-------	5.0183e-08
10	9.134		4935	V	870	-------	4.9350e-08
11	9.366	PCB-1232-3	21379	V	2815	1e-15	0.1000
12	9.957		7766	B	1293	-------	7.7660e-08
13	10.538		9575	B	1051	-------	9.5748e-08
15	11.835		9317	B	1151	-------	9.3169e-08

Result File : 999A009.RST, Printed On 5/13/94 10:22 AM

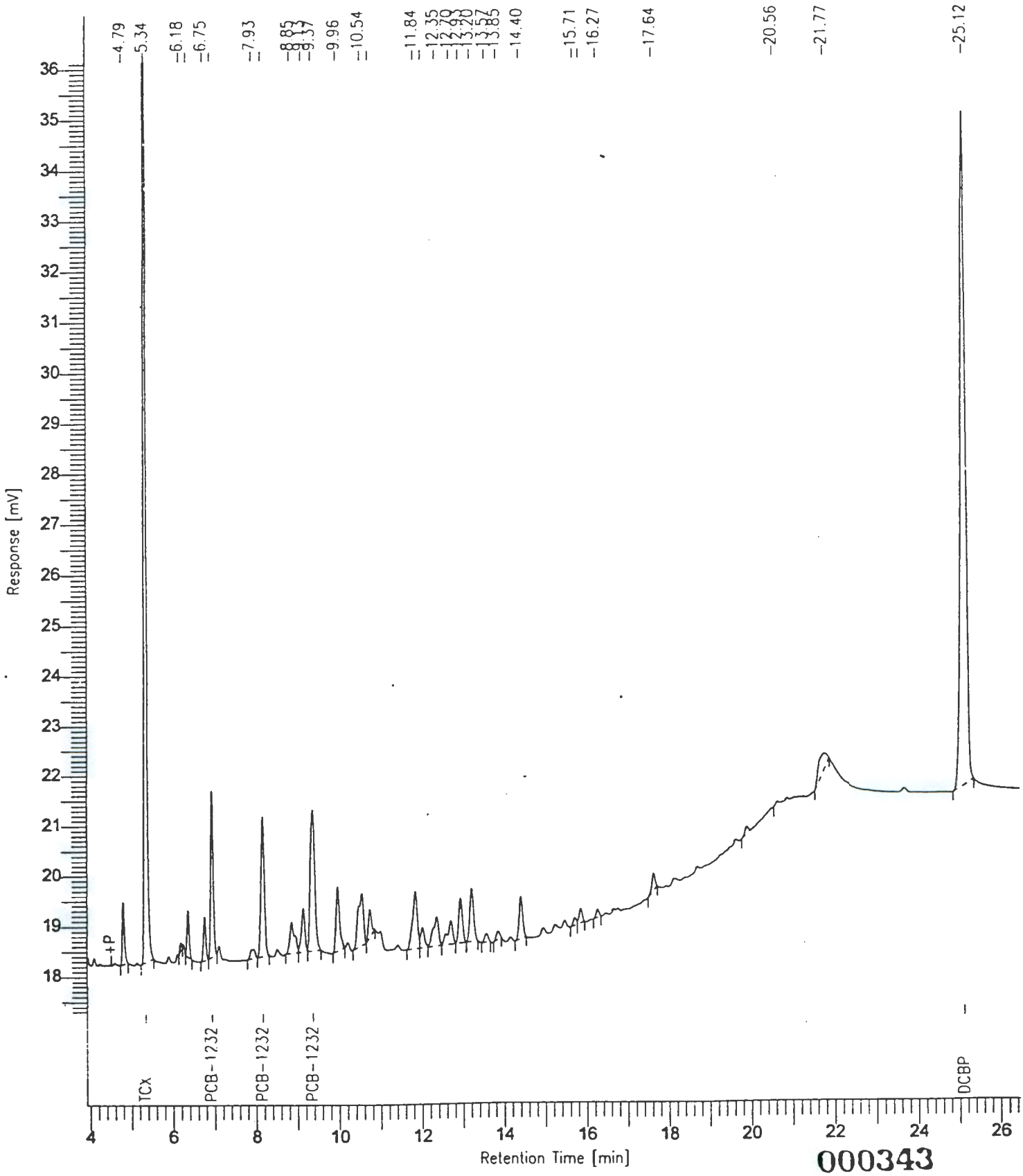
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
17	12.351		5519	V	591	-------	5.5186e-08
18	12.696		4298	V	477	-------	4.2976e-06
19	12.931		5747	V	907	-------	5.7467e-08
20	13.204		6979	B	1073	-------	6.9788e-08
23	14.400		5157	B	854	-------	5.1570e-08
29	21.767		5146	B	331	-------	5.1463e-08
30	25.117	DCBP	115964	B	13353	6e-15	0.0200
			345875		62654		0.3400

9513355.1437

Chromatogram

Sample Name : ICV*AR1232*1
FileName : C:\TC4\HP58909\999A009.RAW
Method :
Start Time : 3.92 min End Time : 26.48 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/13/94 10:22 AM
Time of Injection: 5/8/94 03:10 PM
Low Point : 17.27 mV High Point : 36.13 mV
Plot Scale: 18.9 mV



9513355.1450

Software Version: 4.0<1C29>
Sample Name : ICV*AR1242*1 Time : 5/13/94 10:23 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 03:49 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A010.RAW
Result File : C:\TC4\HP58909\999A010.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A010.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A010.RST
Calib Method : C:\TC4\HP58909\999A1242 from C:\TC4\HP58909\999A010.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 38

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.341	TCX	95968	B	28210	2e-15	0.0200
5	6.930	PCB-1242-1	13473	V	2855	3e-15	0.1000
7	8.157	PCB-1242-2	26920	B	4777	-1e-15	0.1000
10	9.134		8045	B	1486	-------	8.0448e-08
11	9.366	PCB-1242-3	38849	B	5093	-9e-15	0.1000
12	9.956		15760	B	2428	-------	1.5761e-07
14	10.533		17276	B	1886	-------	1.7276e-07
15	10.728		7931	B	1212	-------	7.9310e-08
16	11.834		17004	B	2082	-------	1.7004e-07
17	12.004		4237	V	717	-------	4.2368e-08
18	12.350		9580	B	1127	-------	9.5800e-08
20	12.693		6332	V	1009	-------	6.3317e-08

Result File : 999A010.RST, Printed On 5/13/94 10:23 AM

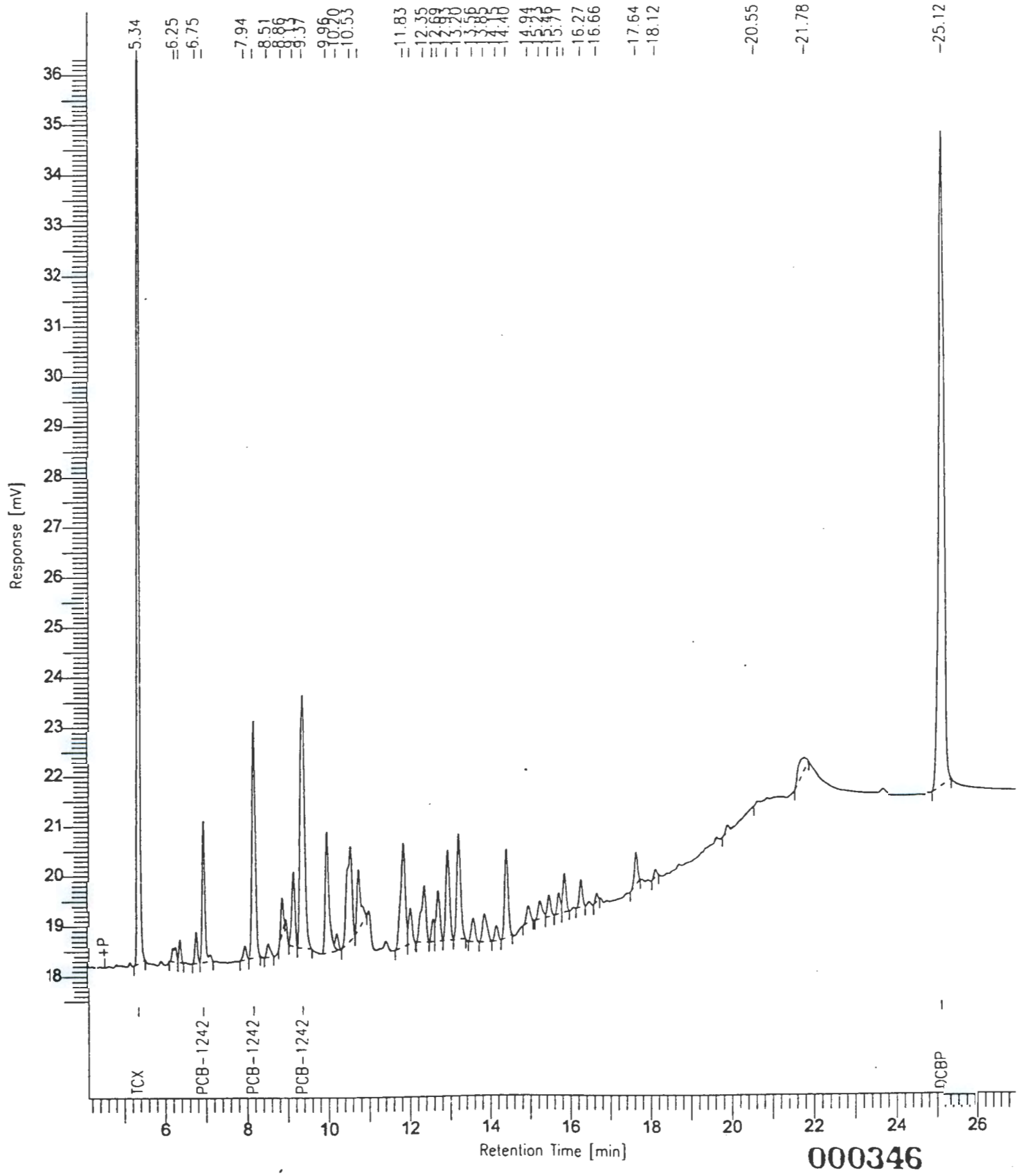
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
21	12.930		11598	V	1823	-------	1.1598e-07
22	13.202		14345	V	2135	-------	1.4345e-07
24	13.846		4571	B	561	-------	4.5708e-08
26	14.398		10926	B	1789	-------	1.0926e-07
31	15.853		4371	V	782	-------	4.3708e-08
34	17.640		3622	B	662	-------	3.6225e-08
37	21.784		4793	B	277	-------	4.7930e-08
38	25.117	DCBP	114486	B	13058	6e-15	0.0200
			430086		73968		0.3400

9513355.1440

Chromatogram

Sample Name : ICV*AR1242*1
FileName : C:\TC4\HP58909\999A010.RAW
Method :
Start Time : 4.11 min End Time : 26.98 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/13/94 10:23 AM
Time of Injection: 5/8/94 03:49 PM
Low Point : 17.40 mV High Point : 36.31 mV
Plot Scale: 18.9 mV



000346

Software Version: 4.0<1C29>
Sample Name : ICV*AR1248*1 Time : 5/13/94 10:24 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 04:28 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A011.RAW
Result File : C:\TC4\HP58909\999A011.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A011.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A011.RST
Calib Method : C:\TC4\HP58909\999A1248 from C:\TC4\HP58909\999A011.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 34

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.341	TCX	94704	B	27699	-4e-15	0.0200
4	8.156		12470	B	2324	-------	1.2470e-07
7	9.353	PCB-1248-1	24942	B	3196	5e-15	0.1000
8	9.956		6430	B	1116	-------	6.4296e-08
10	10.538		21608	B	3389	-------	2.1608e-07
11	10.725		13740	B	2028	-------	1.3740e-07
13	11.835	PCB-1248-2	25774	B	3625	-4e-15	0.1000
14	12.003		8059	V	1219	-------	8.0591e-08
15	12.349		20343	V	2151	-------	2.0343e-07
16	12.690		16775	V	1864	-------	1.6775e-07
17	12.928		25448	V	3665	-------	2.5448e-07
18	13.201		27490	V	3695	-------	2.7490e-07

Result File : 999A011.RST, Printed On 5/13/94 10:24 AM

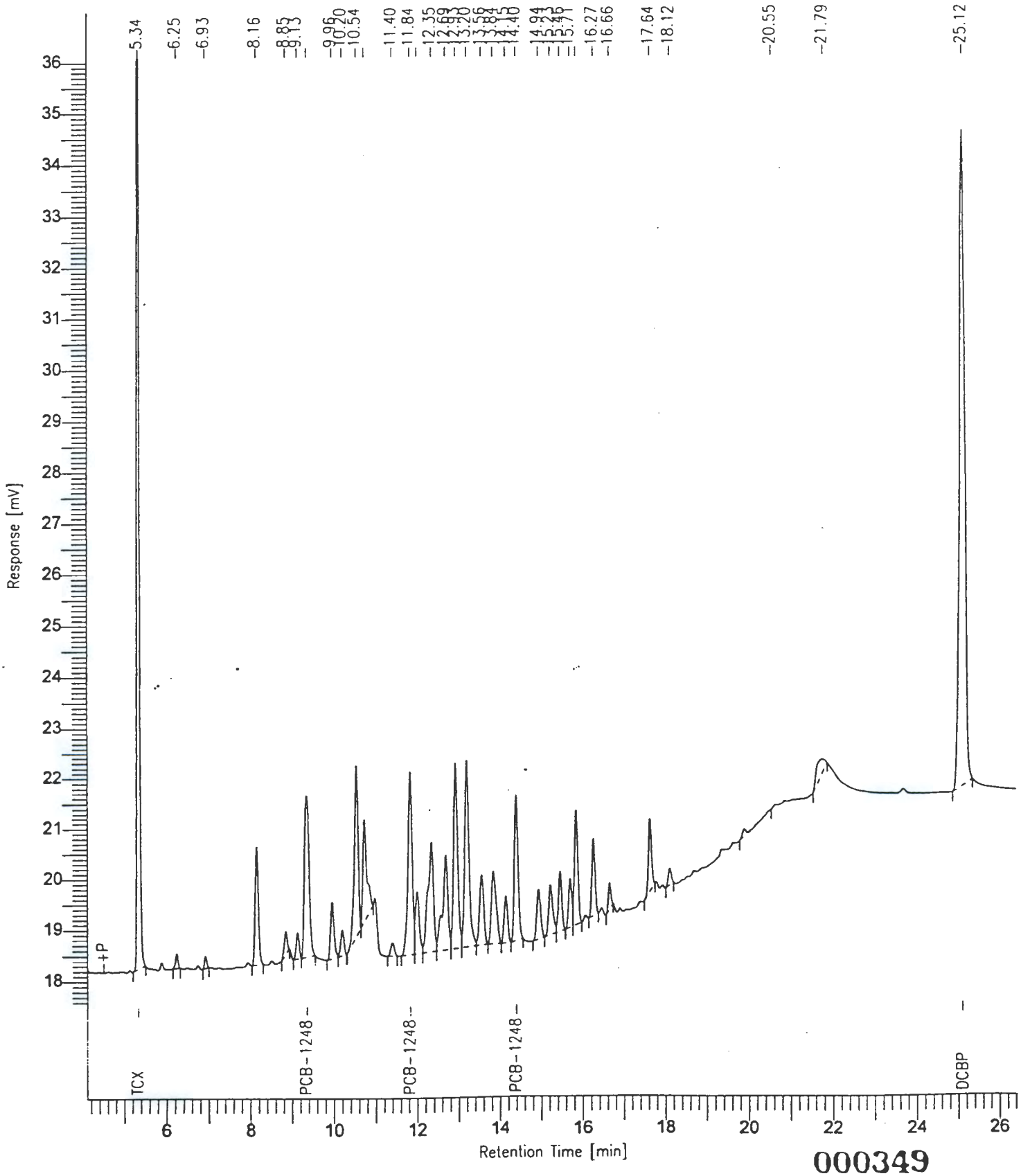
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
19	13.561		9823	V	1383	-------	9.8230e-08
20	13.844		11819	B	1435	-------	1.1819e-07
21	14.147		5474	B	924	-------	5.4740e-08
22	14.398	PCB-1248-3	18007	B	2881	0.0000	0.1000
23	14.939		6510	B	987	-------	6.5103e-08
24	15.229		6920	V	991	-------	6.9198e-08
25	15.463		6863	V	1197	-------	6.8634e-08
26	15.705		5254	B	970	-------	5.2539e-08
27	15.853		12978	V	2286	-------	1.2978e-07
28	16.265		8209	B	1531	-------	8.2090e-08
30	17.643		7516	B	1441	-------	7.5163e-08
33	21.785		4975	B	279	-------	4.9750e-08
34	25.116	DCBP	114238	B	12851	5e-15	0.0200
			516369		85127		0.3400

9513355.1443

Chromatogram

Sample Name : ICV*AR1248*1
FileName : C:\TC4\HP58909\999A011.RAW
Method :
Start Time : 4.11 min End Time : 26.43 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/13/94 10:24 AM
Time of Injection: 5/8/94 04:28 PM
Low Point : 17.50 mV High Point : 36.08 mV
Plot Scale: 18.6 mV



000349

9513355.1444

Software Version: 4.0<1C29>
Sample Name : ICV*AR1254*1 Time : 5/13/94 10:25 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 05:07 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A012.RAW
Result File : C:\TC4\HP58909\999A012.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A012.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A012.RST
Calib Method : C:\TC4\HP58909\999A1254 from C:\TC4\HP58909\999A012.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 35

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.341	TCX	95130	B	27782	-3e-15	0.0200
3	10.540		17364	B	2842	-------	1.7364e-07
4	10.725		3612	V	624	-------	3.6116e-08
5	11.837		7755	B	1256	-------	7.7550e-08
8	12.930		11180	B	1715	-------	1.1180e-07
10	13.562		31381	B	4379	-------	3.1381e-07
11	13.842	PCB-1254-1	38536	V	4997	-9e-16	0.1000
12	14.149		13205	V	2041	-------	1.3205e-07
14	14.939		12164	B	1889	-------	1.2164e-07
15	15.228		13074	V	1995	-------	1.3074e-07
16	15.464		18802	V	3292	-------	1.8802e-07
17	15.706		4992	B	1007	-------	4.9925e-08

9513355.1445

Result File : 999A012.RST, Printed On 5/13/94 10:25 AM page :

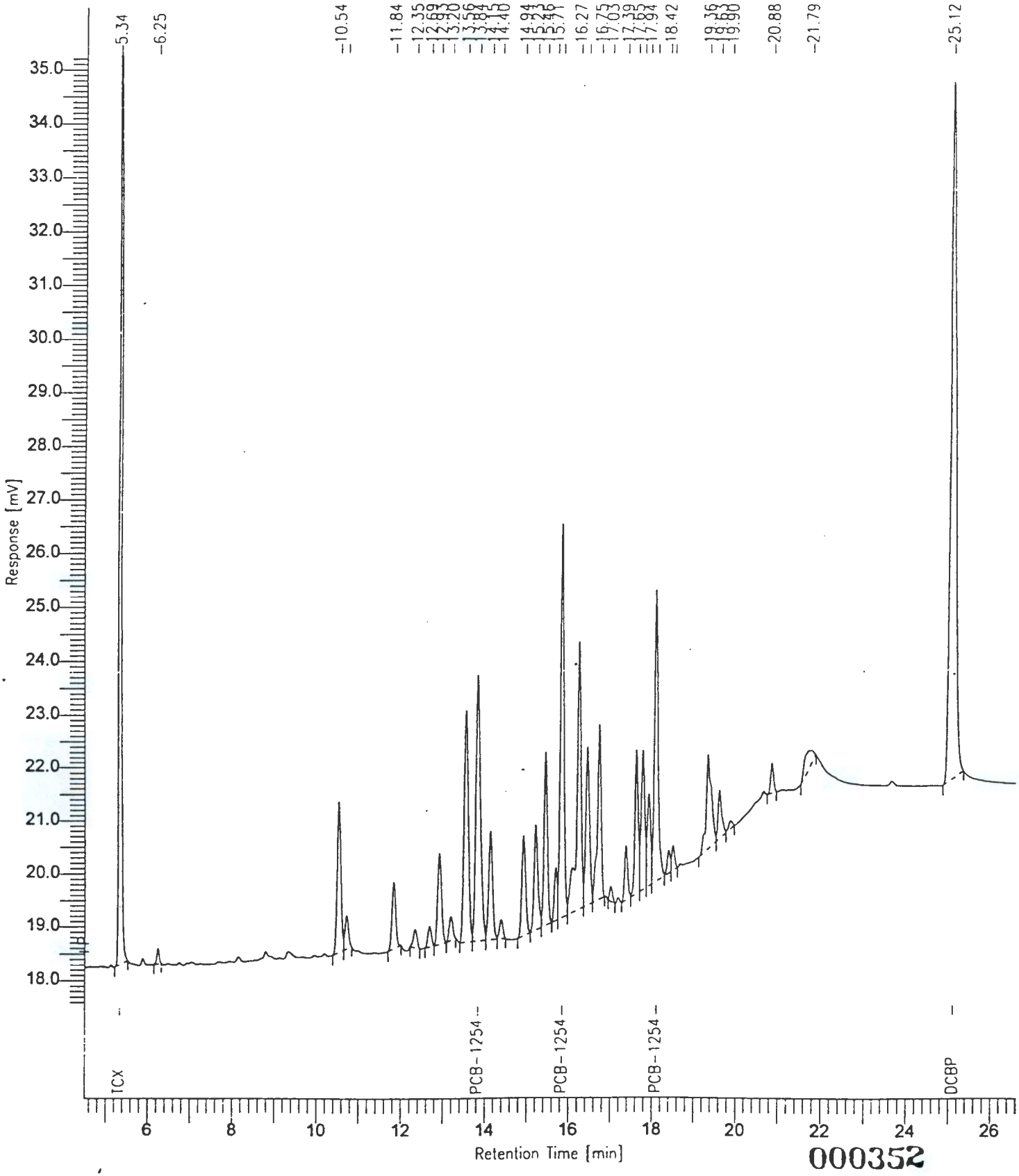
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
18	15.854	PCB-1254-2	43333	V	7413	-4e-15	0.1000
19	16.265		36806	V	5032	-------	3.6806e-07
20	16.465		19230	V	2999	-------	1.9230e-07
21	16.753		20913	V	3312	-------	2.0913e-07
23	17.394		5388	B	1035	-------	5.3881e-08
24	17.645		15091	V	2730	-------	1.5091e-07
25	17.801		16189	V	2640	-------	1.6189e-07
26	17.944		9934	V	1747	-------	9.9343e-08
27	18.112	PCB-1254-3	32900	V	5497	-5e-15	0.1000
30	19.359		15663	B	1793	-------	1.5663e-07
31	19.632		5673	V	926	-------	5.6733e-08
34	21.786		4845	B	266	-------	4.8450e-08
35	25.115	DCBP	114108	B	13000	7e-15	0.0200
			607268		102211		0.3400

9513355.1446

Chromatogram

Sample Name : ICV*AR1254*1
FileName : C:\TC4\HP5#909\999A012.RAW
Method :
Start Time : 4.50 min End Time : 26.62 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/13/94 10:25 AM
Time of Injection: 5/8/94 05:07 PM
Low Point : 17.52 mV High Point : 35.28 mV
Plot Scale: 17.8 mV



000352

9513355.1447

Software Version: 4.0<1C29>
Sample Name : ICV*TOXAPH*1 Time : 5/13/94 10:25 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 05:46 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A013.RAW
Result File : C:\TC4\HP58909\999A013.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A013.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A013.RST
Calib Method : C:\TC4\HP58909\999ATOX from C:\TC4\HP58909\999A013.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 54

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.342	TCX	94564	B	27669	2e-15	0.0200
5	11.648		9520	B	1344	-------	9.5195e-08
8	13.237		6225	B	423	-------	6.2247e-08
9	13.581		15741	V	1799	-------	1.5741e-07
10	13.984		7280	B	1054	-------	7.2795e-08
13	14.724		11278	B	1392	-------	1.1278e-07
14	15.058		12400	B	2024	-------	1.2400e-07
15	15.288		14571	B	2246	-------	1.4571e-07
16	15.461		11539	V	1498	-------	1.1539e-07
17	15.828		7616	B	1529	-------	7.6165e-08
18	15.983		24328	V	2606	-------	2.4328e-07
19	16.274		23890	V	3307	-------	2.3890e-07

Result File : 999A013.RST, Printed On 5/13/94 10:25 AM

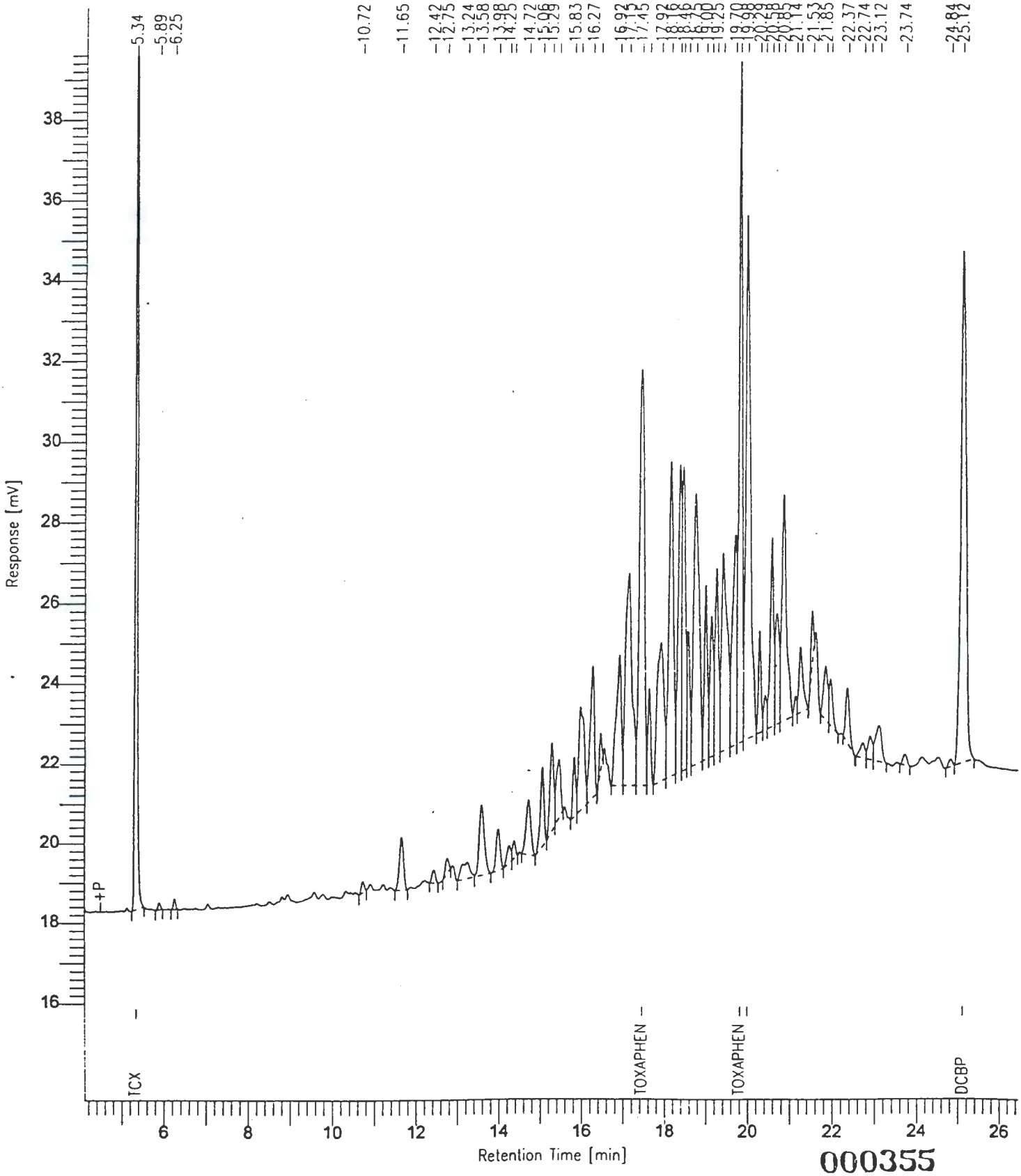
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
20	16.469		4047	B	927	-------	4.0470e-08
21	16.921		28402	B	3263	-------	2.8402e-07
22	17.147		58515	V	5296	-------	5.8515e-07
23	17.452	TOXAPHENE-1	87659	V	10324	4e-15	0.5000
24	17.636		11766	V	2434	-------	1.1766e-07
25	17.922		40524	B	3466	-------	4.0524e-07
26	18.156		60950	V	7828	-------	6.0950e-07
27	18.377		44886	V	7627	-------	4.4886e-07
28	18.458		43063	V	7522	-------	4.3063e-07
29	18.578		16370	V	3413	-------	1.6370e-07
30	18.750		63663	V	6716	-------	6.3663e-07
31	18.996		22642	V	4361	-------	2.2642e-07
32	19.133		20351	V	3485	-------	2.0351e-07
33	19.253		27167	V	4622	-------	2.7167e-07
34	19.406		47818	V	4912	-------	4.7818e-07
35	19.697		37539	V	5202	-------	3.7539e-07
36	19.813	TOXAPHENE-2	88771	V	16982	2e-15	0.5000
37	19.981	TOXAPHENE-3	102158	V	13013	8e-15	0.5000
38	20.288		11381	V	2536	-------	1.1381e-07
39	20.419		4509	V	868	-------	4.5093e-08
40	20.576		26835	V	4672	-------	2.6835e-07
41	20.696		17814	V	2752	-------	1.7814e-07
42	20.850		43244	V	5599	-------	4.3244e-07
44	21.257		10894	V	1617	-------	1.0894e-07
45	21.534		5820	B	1308	-------	5.8200e-08
46	21.849		9554	B	1320	-------	9.5537e-08
47	21.969		6411	V	1152	-------	6.4105e-08
48	22.368		8502	B	1345	-------	8.5020e-08
50	22.913		4279	V	587	-------	4.2787e-08
51	23.122		9153	V	901	-------	9.1531e-08
54	25.118	DCBP	110083	V	12718	-5e-15	0.0200
			1313723		195657		1.5400

9513355.1449

Chromatogram

Sample Name : ICV*TOXAPH*1
FileName : C:\TC4\HP58909\999A013.RAW
Method :
Start Time : 4.11 min End Time : 26.48 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #:
Date : 5/13/94 10:25 AM
Time of Injection: 5/8/94 05:46 PM
Low Point : 15.88 mV High Point : 39.61 mV
Plot Scale: 23.7 mV



000355

9513355.1450

Software Version: 4.0<1C29>
Sample Name : ICV*INDAL*1 Time : 5/13/94 10:53 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 06:25 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A014.RAW
Result File : C:\TC4\HP58909\999A014.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A014.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A014.RST
Calib Method : C:\TC4\HP58909\999AAL from C:\TC4\HP58909\999A014.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 17

DATA REPORT

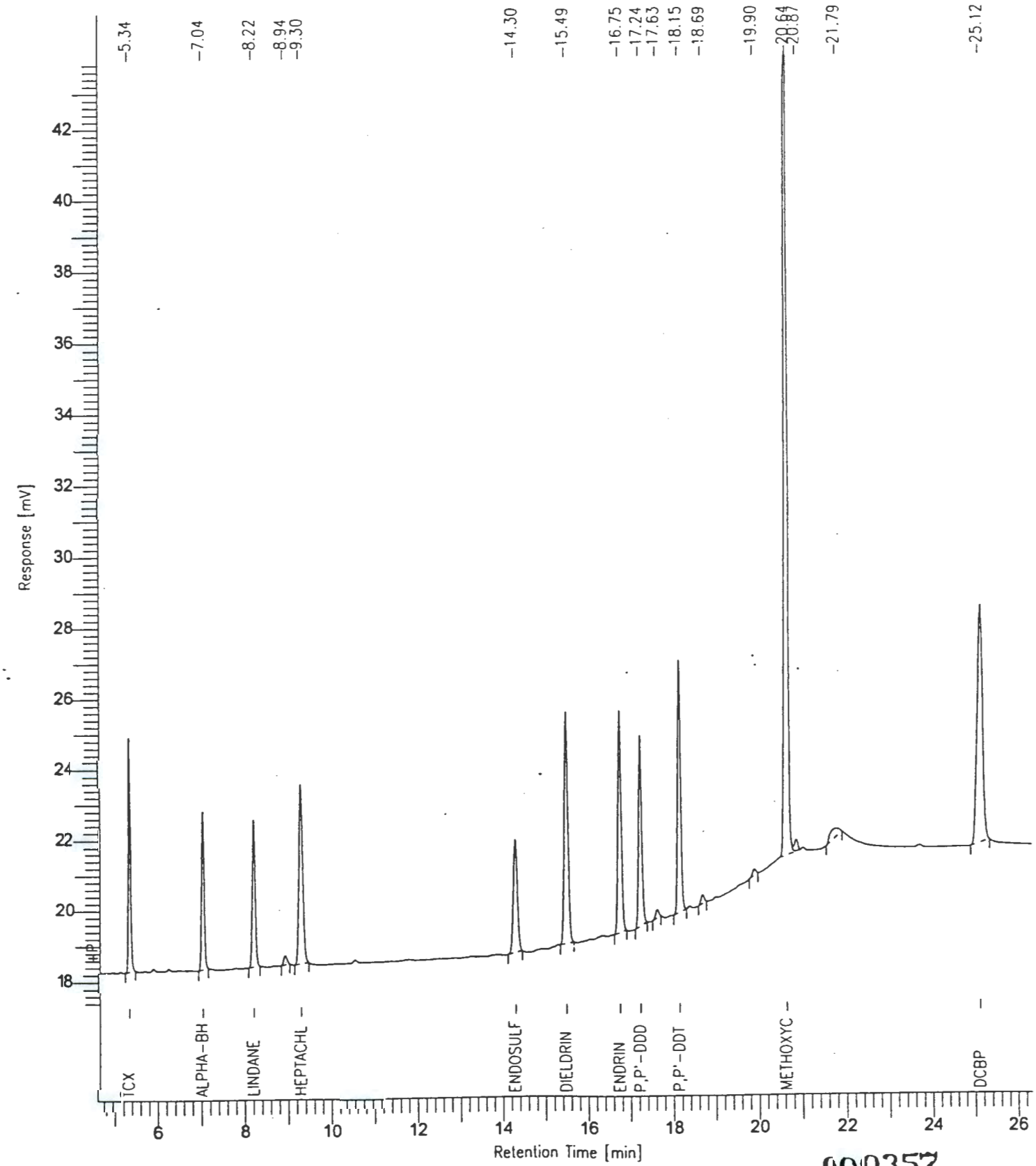
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.341	TCX	22306	B	6634	1e-15	0.0050
2	7.038	ALPHA-BHC	18352	B	4487	0.0000	0.0050
3	8.217	LINDANE	19184	B	4154	9e-15	0.0050
5	9.302	HEPTACHLOR	30709	B	5085	8e-15	0.0050
6	14.298	ENDOSULFAN A	21060	B	3203	5e-15	0.0050
7	15.490	DIELDRIN	39343	B	6595	2e-15	0.0100
8	16.753	ENDRIN	34416	B	6332	-1e-14	0.0100
9	17.236	P,P'-DDD	28032	B	5444	-5e-15	0.0100
11	18.152	P,P'-DDT	35102	B	7165	-1e-15	0.0100
14	20.640	METHOXYCHLOR	141448	B	29070	1e-15	0.0500
17	25.119	DCBP	58089	B	6739	5e-15	0.0100

9513355.1451

Chromatogram

Sample Name : ICV*INDAL*1
FileName : C:\TC4\HP58909\999A014.RAW
Method :
Start Time : 4.65 min End Time : 26.34 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/13/94 10:53 AM
Time of Injection: 5/8/94 06:25 PM
Low Point : 17.29 mV High Point : 43.93 mV
Plot Scale: 26.6 mV



000357

Software Version: 4.0<1C29>
Sample Name : ICV*INDBL*1 Time : 5/13/94 10:54 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 07:04 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A015.RAW
Result File : C:\TC4\HP58909\999A015.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A015.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A015.RST
Calib Method : C:\TC4\HP58909\999ABL from C:\TC4\HP58909\999A015.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 18

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.340	TCX	22272	B	6615	-6e-15	0.0050
3	8.438	BETA-BHC	13716	B	2953	-7e-15	0.0050
5	9.713	DELTA-BHC	16310	B	3213	-6e-15	0.0050
6	10.497	ALDRIN	21266	B	3287	8e-15	0.0050
7	12.800	HEPTACHLOR EPOXIDE	24317	B	3522	3e-15	0.0050
8	13.512	GAMMA-CHLORDANE	29030	B	3979	-2e-15	0.0050
9	14.213	ALPHA-CHLORDANE	27780	B	4085	-8e-16	0.0050
10	15.310	P,P'-DDE	36278	B	6136	-5e-15	0.0100
11	17.360	ENDOSULFAN B	37212	B	7026	-5e-15	0.0100
13	18.388	ENDRIN ALDEHYDE	31776	B	6217	6e-15	0.0100
14	18.751	ENDOSULFAN SULFATE	40591	B	8085	3e-15	0.0100
16	20.875	ENDRIN KETONE	37504	B	7668	0.0000	0.0100

9513355.1453

Result File : 999A015.RST, Printed On 5/13/94 10:54 AM

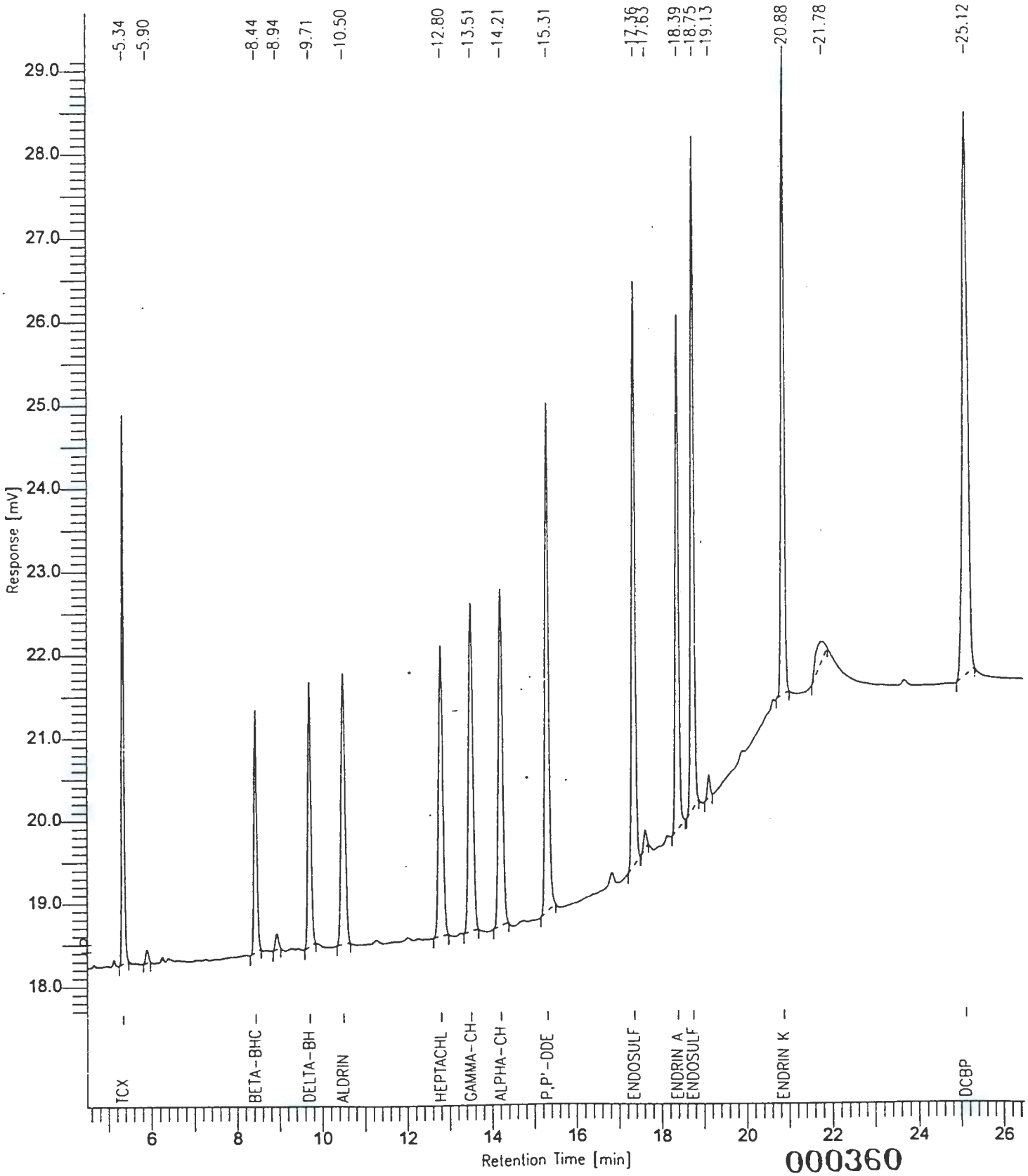
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
18	25.116	DCBP	58221	B	6777	4e-15	0.0100
			396272		69562		0.0950

9513355.1454

Chromatogram

Sample Name : ICV*INDBL*1
FileName : C:\TC4\HP58909\999A015.RAW
Method :
Start Time : 4.50 min End Time : 26.48 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/13/94 10:53 AM
Time of Injection: 5/8/94 07:04 PM
Low Point : 17.67 mV High Point : 29.13 mV
Plot Scale: 11.5 mV



000360

Software Version: 4.0<1C29>
Sample Name : ICV*INDAM*1 Time : 5/14/94 03:36 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 07:43 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A016.RAW
Result File : C:\TC4\HP58909\999A016.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A016.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A016.RST
Calib Method : C:\TC4\HP58909\999AAM from C:\TC4\HP58909\999A016.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

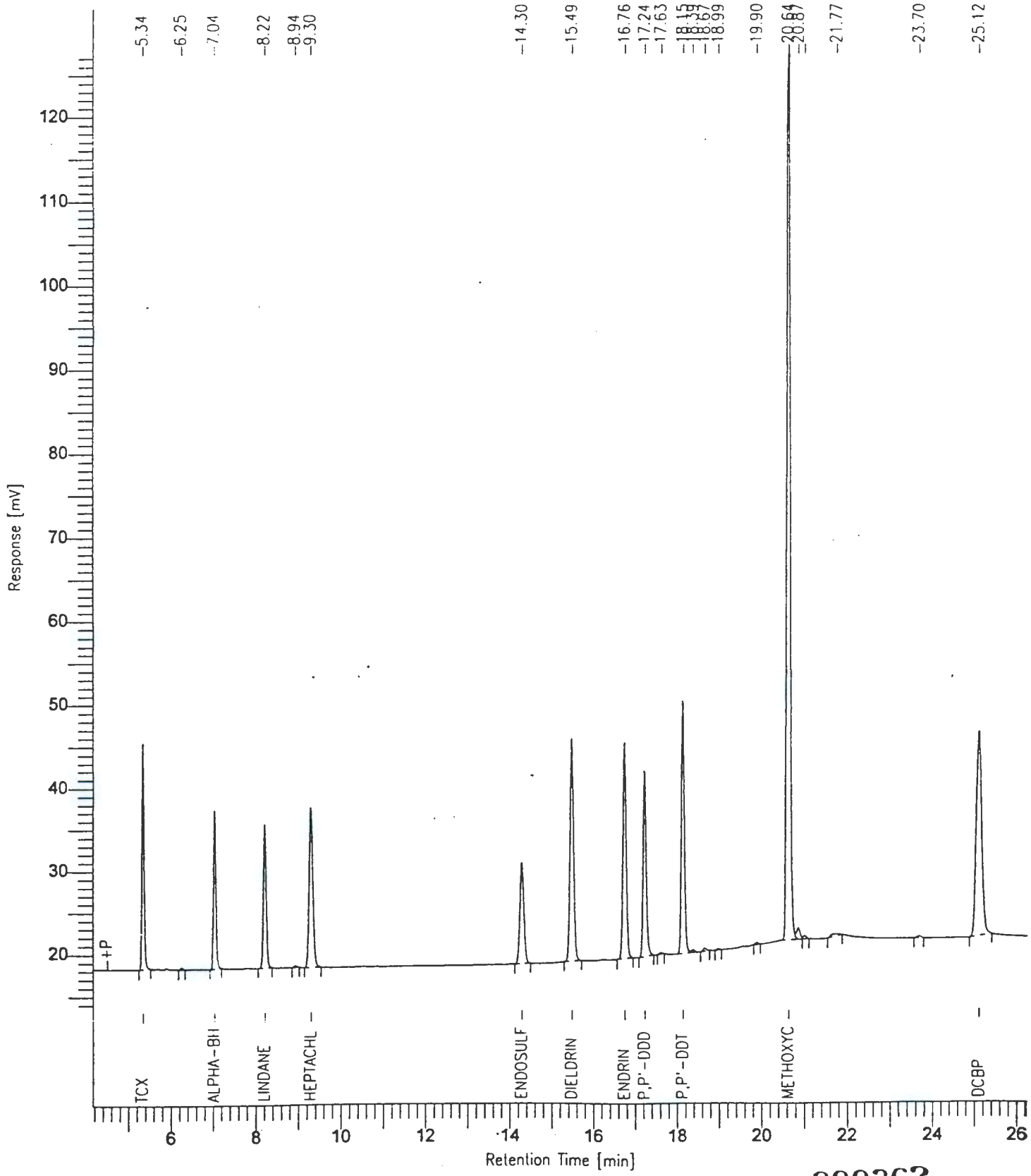
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.341	TCX	93190	B	27193	0.0000	0.0200
3	7.039	ALPHA-BHC	76774	B	19125	-3e-15	0.0200
4	8.217	LINDANE	78770	B	17255	9e-15	0.0200
6	9.302	HEPTACHLOR	116414	B	19274	0.0000	0.0200
7	14.298	ENDOSULFAN A	80484	B	12197	6e-15	0.0200
8	15.489	DIELDRIN	158907	B	26952	-3e-15	0.0400
9	16.755	ENDRIN	140946	B	26200	-3e-15	0.0400
10	17.236	P,P'-DDD	116662	B	22577	0.0000	0.0400
12	18.153	P,P'-DDT	150108	B	30575	9e-15	0.0400
17	20.643	METHOXYCHLOR	608275	B	120039	-2e-15	0.2000
22	25.121	DCBP	217926	B	24702	-3e-15	0.0400

9513355.1458

Chromatogram

Sample Name : ICV*INDAM*1
FileName : C:\TC4\HP58909\999A016.RAW
Method :
Start Time : 4.16 min End Time : 26.24 min
Scale Factor: 0.0 Plot Offset: 13 mV

Sample #:
Date : 5/14/94 03:36 PM
Time of Injection: 5/8/94 07:43 PM
Low Point : 13.18 mV High Point : 127.31 mV
Plot Scale: 114.1 mV



000362

9513355.1457

Software Version: 4.0<1C29>
Sample Name : ICV*INDBM*1 Time : 5/14/94 03:36 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 08:22 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A017.RAW
Result File : C:\TC4\HP58909\999A017.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A017.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A017.RST
Calib Method : C:\TC4\HP58909\999ABM from C:\TC4\HP58909\999A017.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 25

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.342	TCX	93488	B	27206	3e-15	0.0200
6	8.440	BETA-BHC	55152	B	11654	-8e-15	0.0200
8	9.714	DELTA-BHC	65862	B	13192	-7e-15	0.0200
9	10.499	ALDRIN	83808	B	13188	-1e-15	0.0200
10	12.801	HEPTACHLOR EPOXIDE	92742	B	13195	0.0000	0.0200
11	13.513	GAMMA-CHLORDANE	110812	B	15040	6e-15	0.0200
12	14.216	ALPHA-CHLORDANE	109594	B	16033	2e-15	0.0200
13	15.312	P,P'-DDE	150314	B	26006	-8e-16	0.0400
15	17.362	ENDOSULFAN B	147556	B	27952	-5e-15	0.0400
17	18.389	ENDRIN ALDEHYDE	125255	B	24228	-6e-15	0.0400
18	18.753	ENDOSULFAN SULFATE	167066	V	32959	9e-15	0.0400
22	20.877	ENDRIN KETONE	160980	V	32967	-6e-15	0.0400

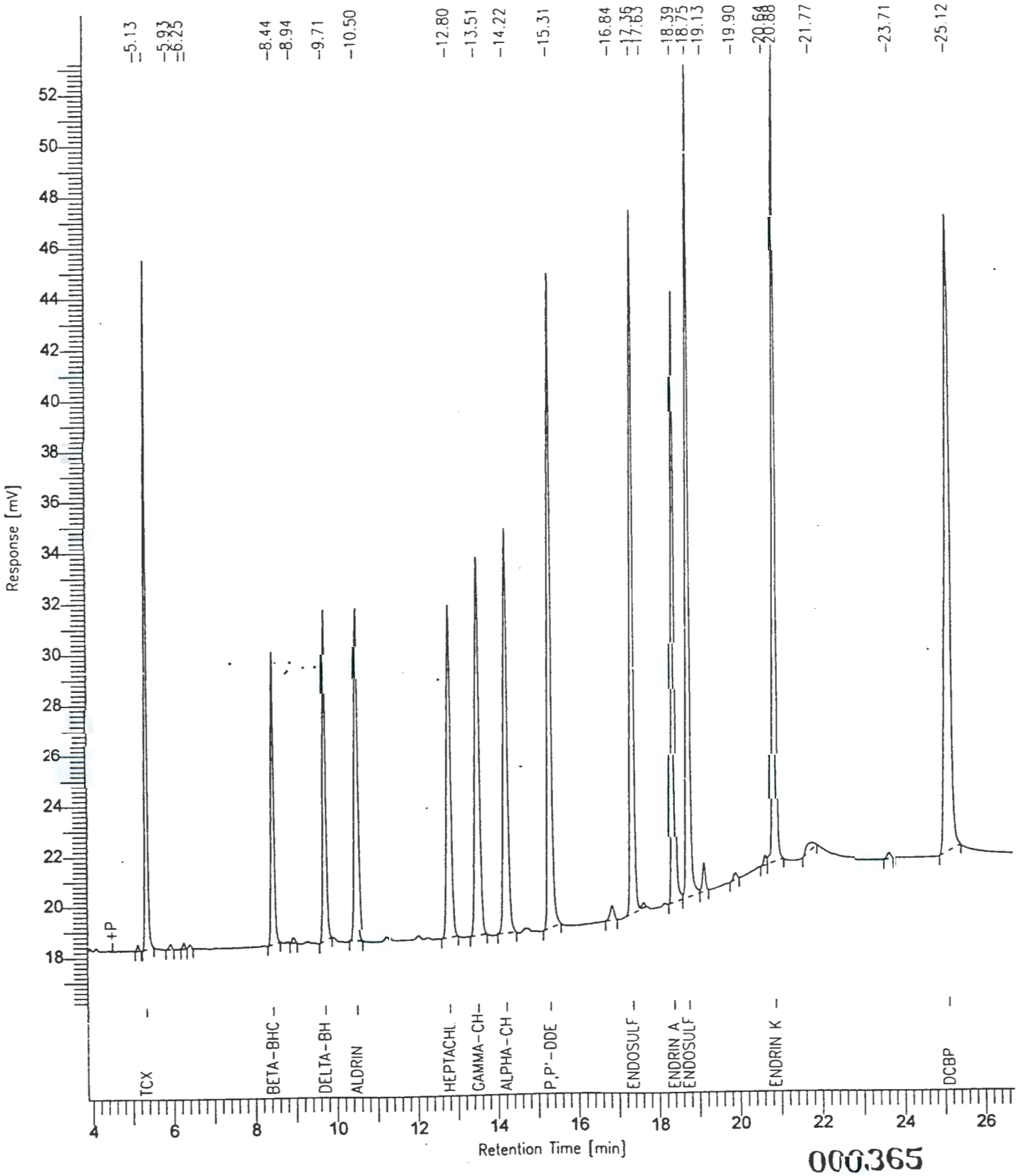
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
25	25.120	DCBP	221761	B	25191	4e-15	0.0400
			1584390		278812		0.3800

9513355.1459

Chromatogram

Sample Name : ICV*INDBM*1
FileName : C:\TC4\HP58909\999A017.RAW
Method :
Start Time : 3.87 min End Time : 26.73 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #:
Date : 5/14/94 03:36 PM
Time of Injection: 5/8/94 08:22 PM
Low Point : 16.03 mV High Point : 53.31 mV
Plot Scale: 37.3 mV



000365

Software Version: 4.0<1C29>
Sample Name : ICV*INDAH*1 Time : 5/13/94 10:50 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 09:01 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A018.RAW
Result File : C:\TC4\HP58909\999A018.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A018.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A018.RST
Calib Method : C:\TC4\HP58909\999AAH from C:\TC4\HP58909\999A018.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 26

DATA REPORT

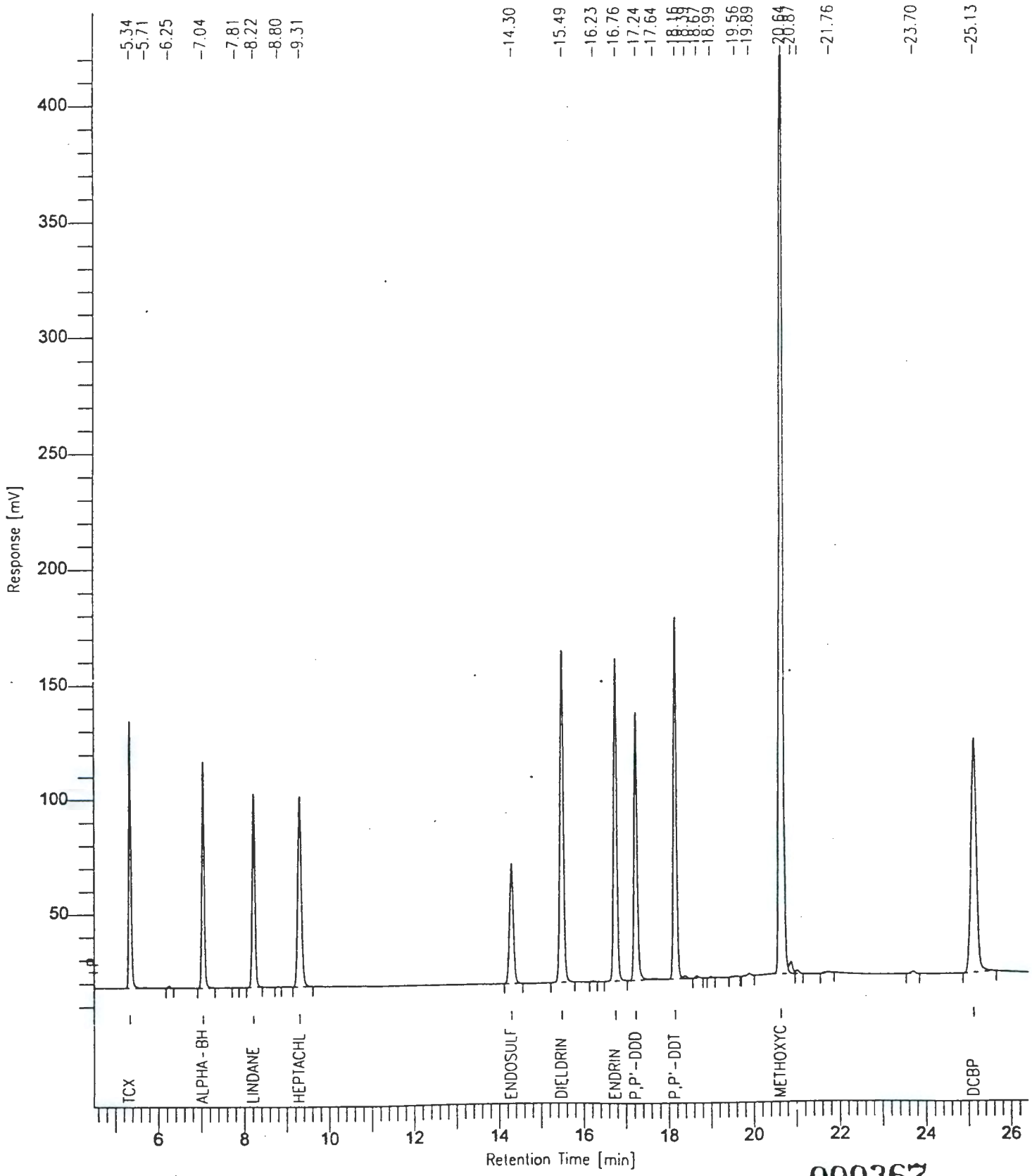
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.342	TCX	419677	B	116530	2e-15	0.0800
4	7.042	ALPHA-BHC	387764	B	98879	4e-15	0.0800
6	8.220	LINDANE	378822	B	84666	-9e-15	0.0800
8	9.306	HEPTACHLOR	488764	B	83209	5e-15	0.0800
9	14.302	ENDOSULFAN A	336450	B	52499	8e-16	0.0800
10	15.494	DIELDRIN	819984	B	145280	2e-15	0.1600
12	16.759	ENDRIN	733282	B	140882	-1e-14	0.1600
13	17.239	P,P'-DDD	584714	B	117370	-4e-15	0.1600
15	18.156	P,P'-DDT	769841	B	157898	8e-15	0.1600
21	20.643	METHOXYCHLOR	2541496	B	485493	1e-15	0.8000
26	25.125	DCBP	900238	B	102349	-6e-15	0.1600

9513355.1461

Chromatogram

Sample Name : ICV*INDAH*1
FileName : C:\TC4\HP58909\999A018.RAW
Method :
Start Time : 4.50 min End Time : 26.38 min
Scale Factor: 0.0 Plot Offset: 7 mV

Sample #:
Date : 5/13/94 10:50 AM
Time of Injection: 5/8/94 09:01 PM
Low Point : 7.09 mV High Point : 420.11 mV
Plot Scale: 413.0 mV



000367

Software Version: 4.0<1C29>
Sample Name : ICV*INDBH*1 Time : 5/13/94 10:51 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 09:39 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A019.RAW
Result File : C:\TC4\HP58909\999A019.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A019.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A019.RST
Calib Method : C:\TC4\HP58909\999ABH from C:\TC4\HP58909\999A019.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 30

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.343	TCX	419518	B	116177	7e-15	0.0800
6	8.441	BETA-BHC	232454	B	48030	8e-15	0.0800
9	9.717	DELTA-BHC	304779	B	63352	9e-15	0.0800
10	10.503	ALDRIN	394990	B	65533	6e-15	0.0800
14	12.804	HEPTACHLOR EPOXIDE	387983	B	57367	-6e-15	0.0800
15	13.517	GAMMA-CHLORDANE	450789	B	62195	-4e-15	0.0800
16	14.220	ALPHA-CHLORDANE	461846	B	67299	-2e-15	0.0800
18	15.316	P,P'-DDE	785771	B	142684	-5e-15	0.1600
20	17.365	ENDOSULFAN B	649288	B	125613	-3e-15	0.1600
22	18.392	ENDRIN ALDEHYDE	502792	B	98874	-3e-15	0.1600
23	18.757	ENDOSULFAN SULFATE	733589	B	143621	-3e-15	0.1600
27	20.879	ENDRIN KETONE	726815	V	143644	2e-15	0.1600

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
30	25.125	DCBP	908002	B	102395	-9e-16	0.1600
			6958615		1236785		1.5200

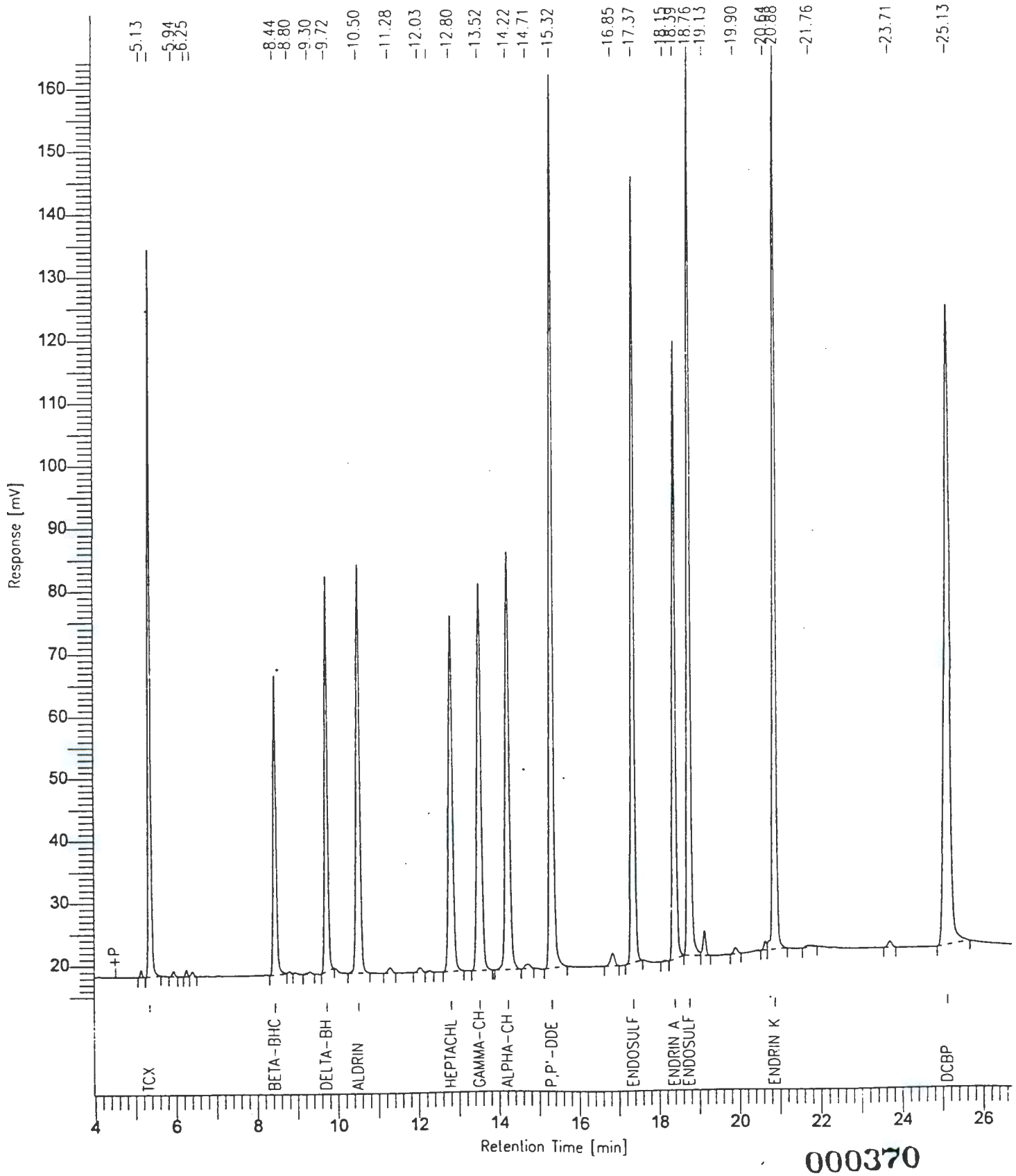
9513355.1464

Chromatogram

Sample Name : ICV*INDBH*1
FileName : C:\TC4\HP58909\999A019.RAW
Method :
Start Time : 3.97 min
Scale Factor: 0.0

End Time : 26.73 min
Plot Offset: 14 mV

Sample #:
Date : 5/13/94 10:51 AM
Time of Injection: 5/8/94 09:39 PM
Low Point : 14.03 mV
Plot Scale: 150.3 mV



000370

9513355.1465

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*1 Time : 5/13/94 11:02 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 10:18 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A020.RAW
Result File : C:\TC4\HP58909\999A020.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A020.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A020.RST
Calib Method : C:\TC4\HP58909\999A from C:\TC4\HP58909\999A020.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5922.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

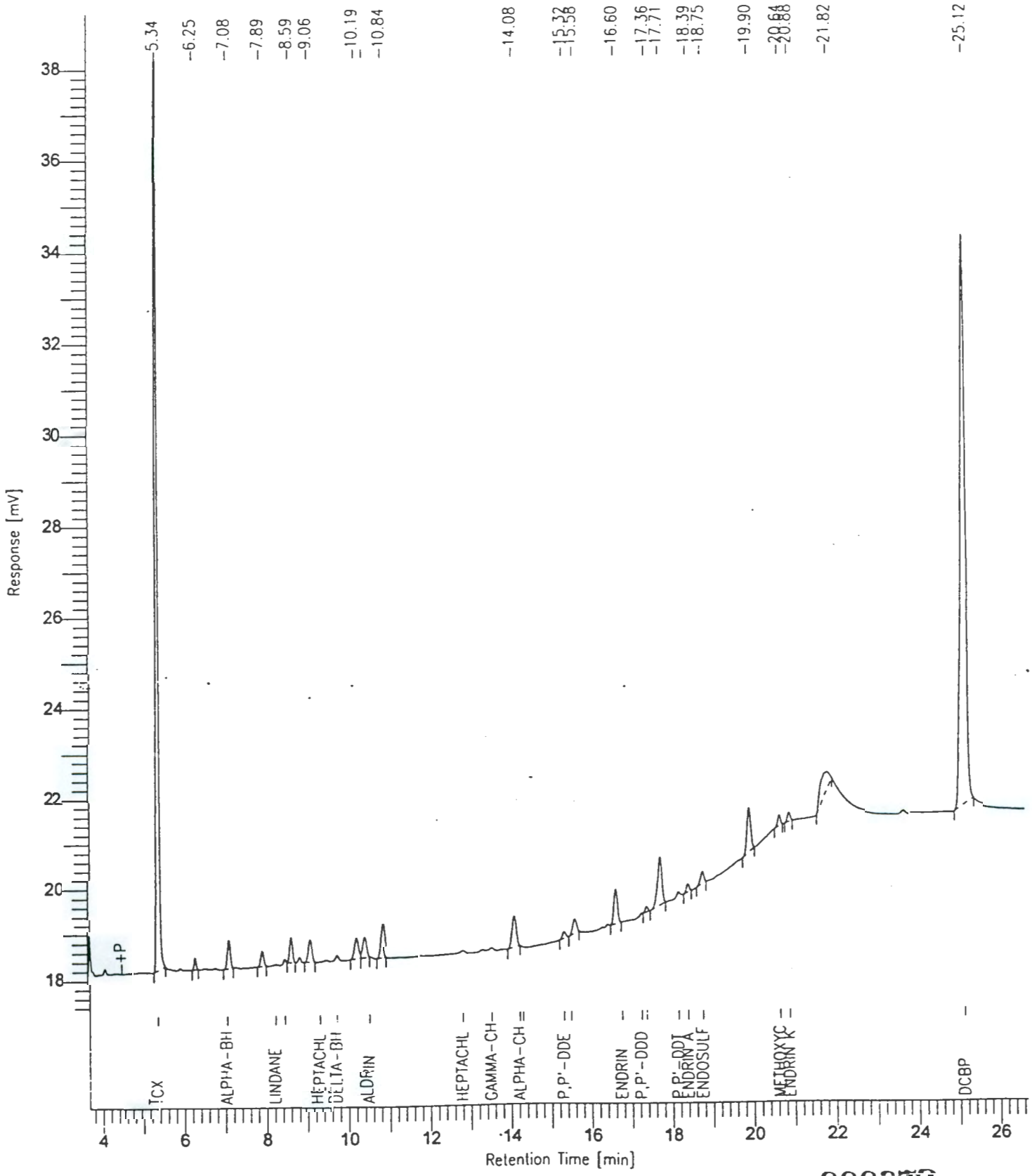
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.342	TCX	90462	B	26306	0.0168
15	17.706		8221	B	1081	-------
18	19.901		6386	B	994	-------
21	21.819		7398	B	372	-------
22	25.120	DCBP	109933	B	12552	-0.0036
			222401		41305	

9513355.1466

Chromatogram

Sample Name : MB*PIBLK*1
FileName : C:\TC4\HP58909\999A020.RAW
Method :
Start Time : 3.67 min End Time : 26.68 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/13/94 11:02 AM
Time of Injection: 5/8/94 10:18 PM
Low Point : 17.22 mV High Point : 38.19 mV
Plot Scale: 21.0 mV



000372

9513355.1467

Software Version: 4.0<1C29>
Sample Name : CK*PEM*2 Time : 5/13/94 11:03 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 10:57 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A021.RAW
Result File : C:\TC4\HP58909\999A021.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A021.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A021.RST
Calib Method : C:\TC4\HP58909\999APEM from C:\TC4\HP58909\999A021.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 19

DATA REPORT

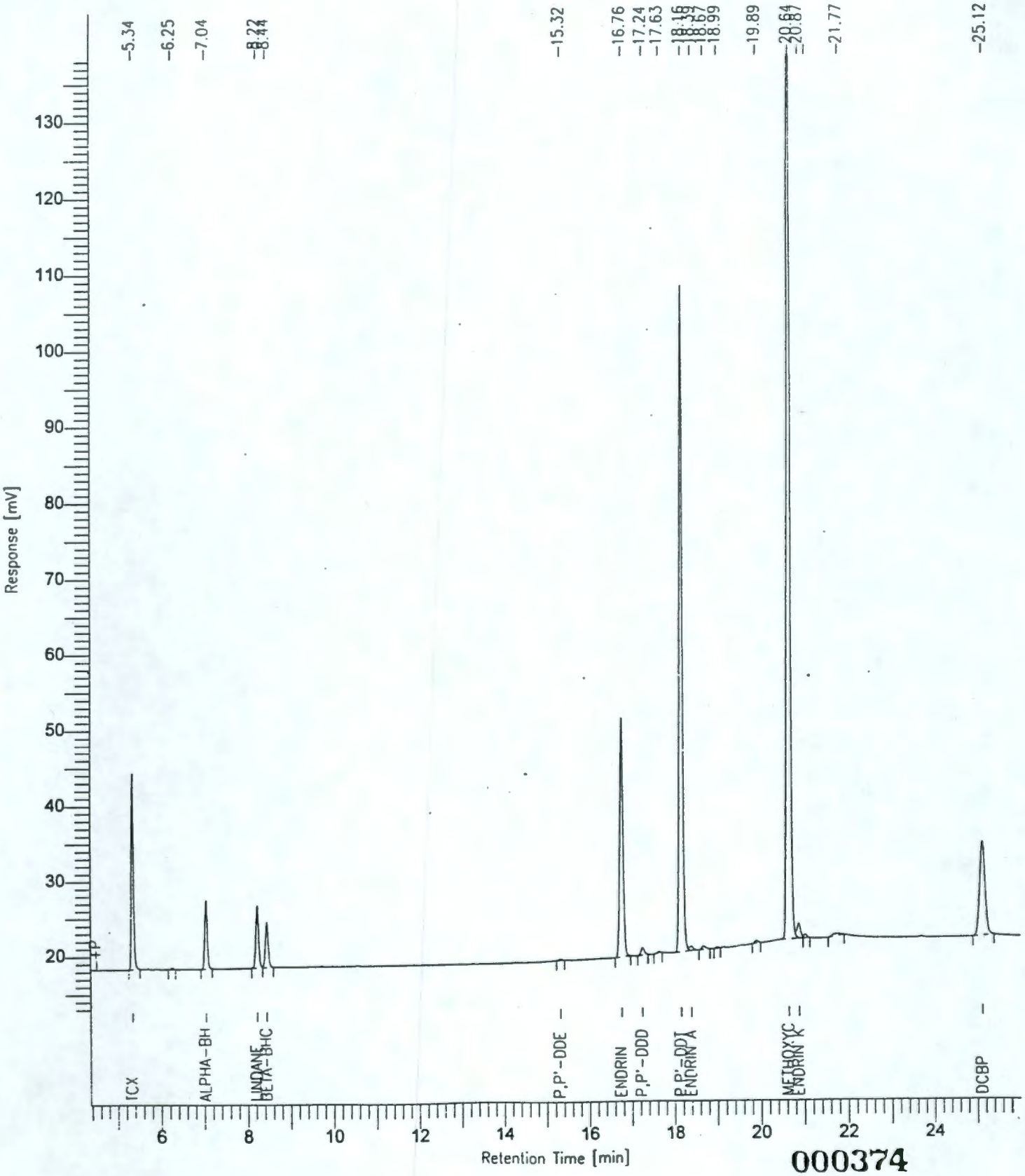
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.341	TCX	89148	B	26020	0.0071
3	7.039	ALPHA-BHC	36899	B	9061	-0.0011
4	8.217	LINDANE	37802	B	8255	0.0023
5	8.439	BETA-BHC	27977	V	5986	-0.0094
6	15.315	P,P'-DDE	998	B	189	0.0214
7	16.756	ENDRIN	169504	B	31979	0.0064
8	17.242	P,P'-DDD	5257	B	954	0.0366
10	18.156	P,P'-DDT	425252	B	88380	0.0167
11	18.386	ENDRIN ALDEHYDE	3740	E	583	-0.0172
15	20.643	METHOXYCHLOR	738680	B	144584	-0.0000
16	20.871	ENDRIN KETONE	11274	E	1982	-0.0303
19	25.121	DCBP	109140	B	12562	-0.0017

9513355.1468

Chromatogram

Sample Name : CK*PEM*2
FileName : C:\TC4\HP58909\999A021.RAW
Method :
Start Time : 4.36 min End Time : 25.99 min
Scale Factor: 0.0 Plot Offset: 13 mV

Sample #:
Date : 5/13/94 11:03 AM
Time of Injection: 5/8/94 10:57 PM
Low Point : 12.66 mV High Point : 138.27 mV
Plot Scale: 125.6 mV



000374

Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 5/13/94 11:21 AM
Sample Number:
Study :
Operator : VIC

Instrument : HP58909
Channel : A
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 5/9/94 05:27 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A031.RAW
Result File : C:\TC4\HP58909\999A031.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A031.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A031.RST
Calib Method : C:\TC4\HP58909\999A from C:\TC4\HP58909\999A031.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul
Area Reject : 5922.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 15
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 3

DATA REPORT

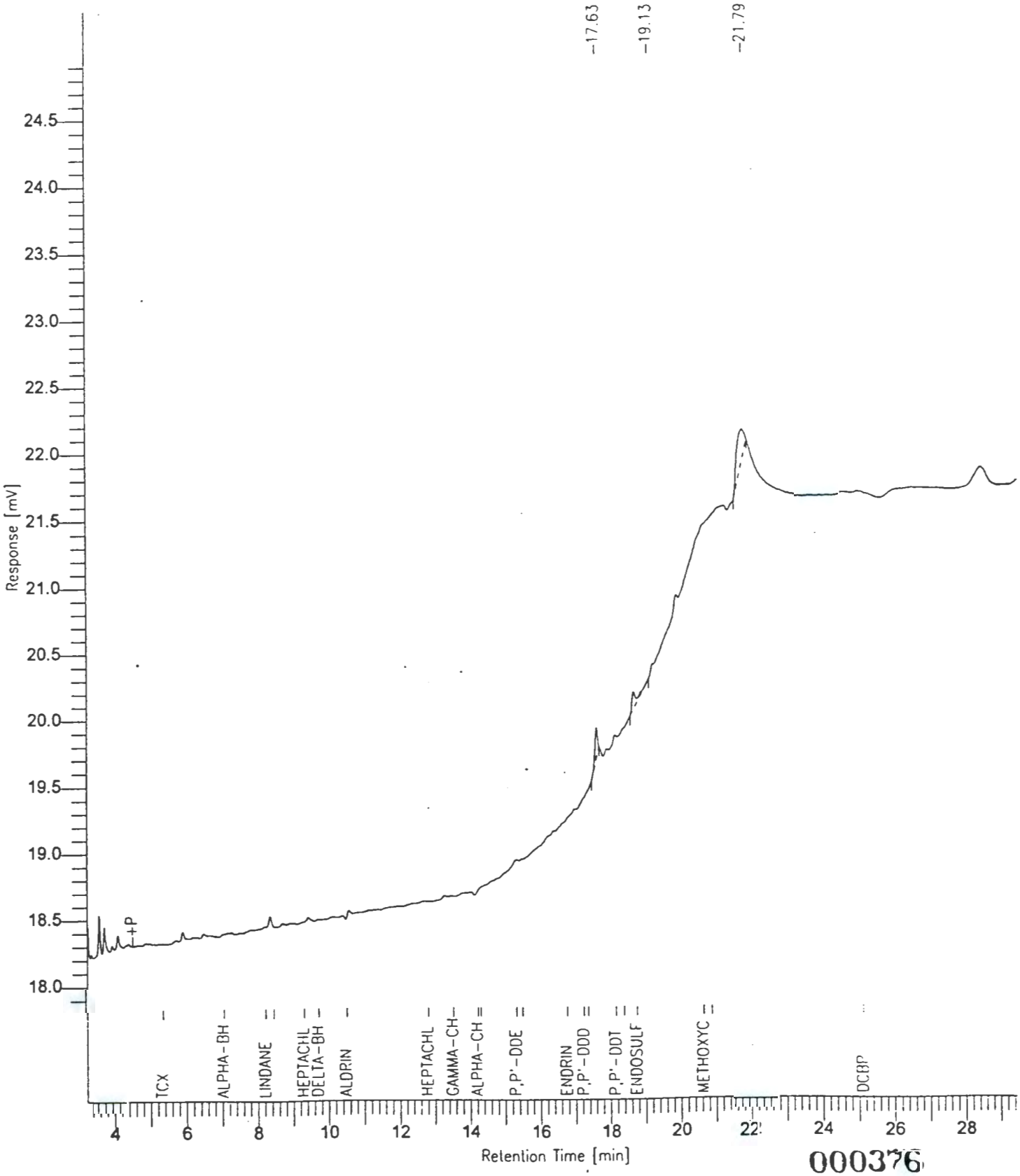
No peaks available to report

9513355.1470

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\999A031.RAW
Method :
Start Time : 3.23 min End Time : 29.56 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/13/94 11:21 AM
Time of Injection: 5/9/94 05:27 AM
Low Point : 17.83 mV High Point : 24.97 mV
Plot Scale: 7.1 mV



000376

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*2 Time : 5/13/94 11:21 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 06:06 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A032.RAW
Result File : C:\TC4\HP58909\999A032.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A032.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A032.RST
Calib Method : C:\TC4\HP58909\999A from C:\TC4\HP58909\999A032.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5922.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 5

DATA REPORT

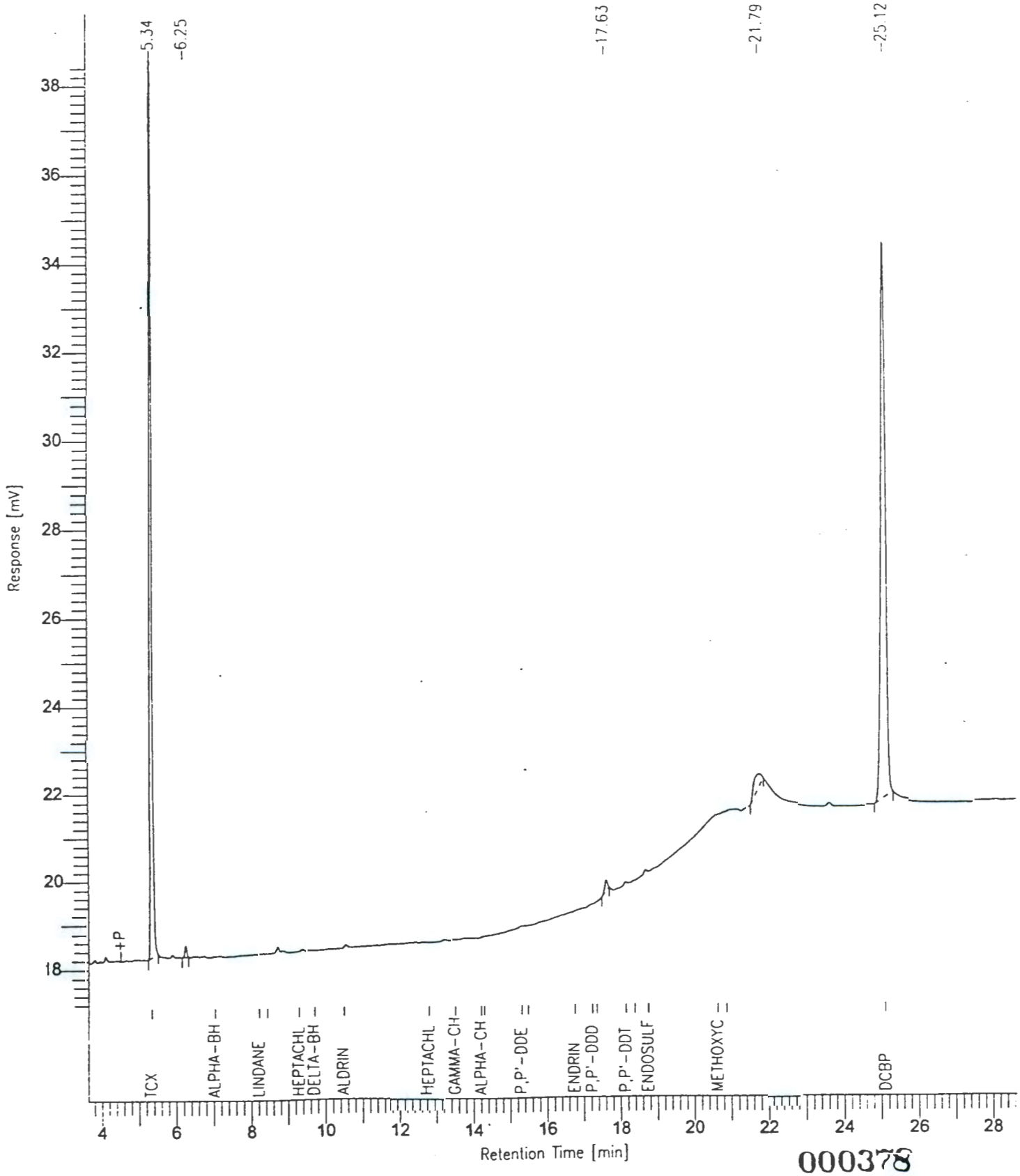
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.342	TCX	91066	B	26476	0.0096
5	25.117	DCBP	110390	B	12528	-0.0149
			201455		39005	

9513355.1472

Chromatogram

Sample Name : MB*PIBLK*2
FileName : C:\TC4\HP58909\999A032.RAW
Method :
Start Time : 3.62 min End Time : 28.73 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/13/94 11:21 AM
Time of Injection: 5/9/94 06:06 AM
Low Point : 17.13 mV High Point : 38.58 mV
Plot Scale: 21.4 mV



000378

Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*2 Time : 5/13/94 11:24 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 06:44 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A033.RAW
Result File : C:\TC4\HP58909\999A033.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A033.RST
Proc Method : C:\TC4\HP58909\999AAM.MTH
Calib Method : C:\TC4\HP58909\999AAM.MTH
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 111 Area Threshold : 1111 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 11

DATA REPORT

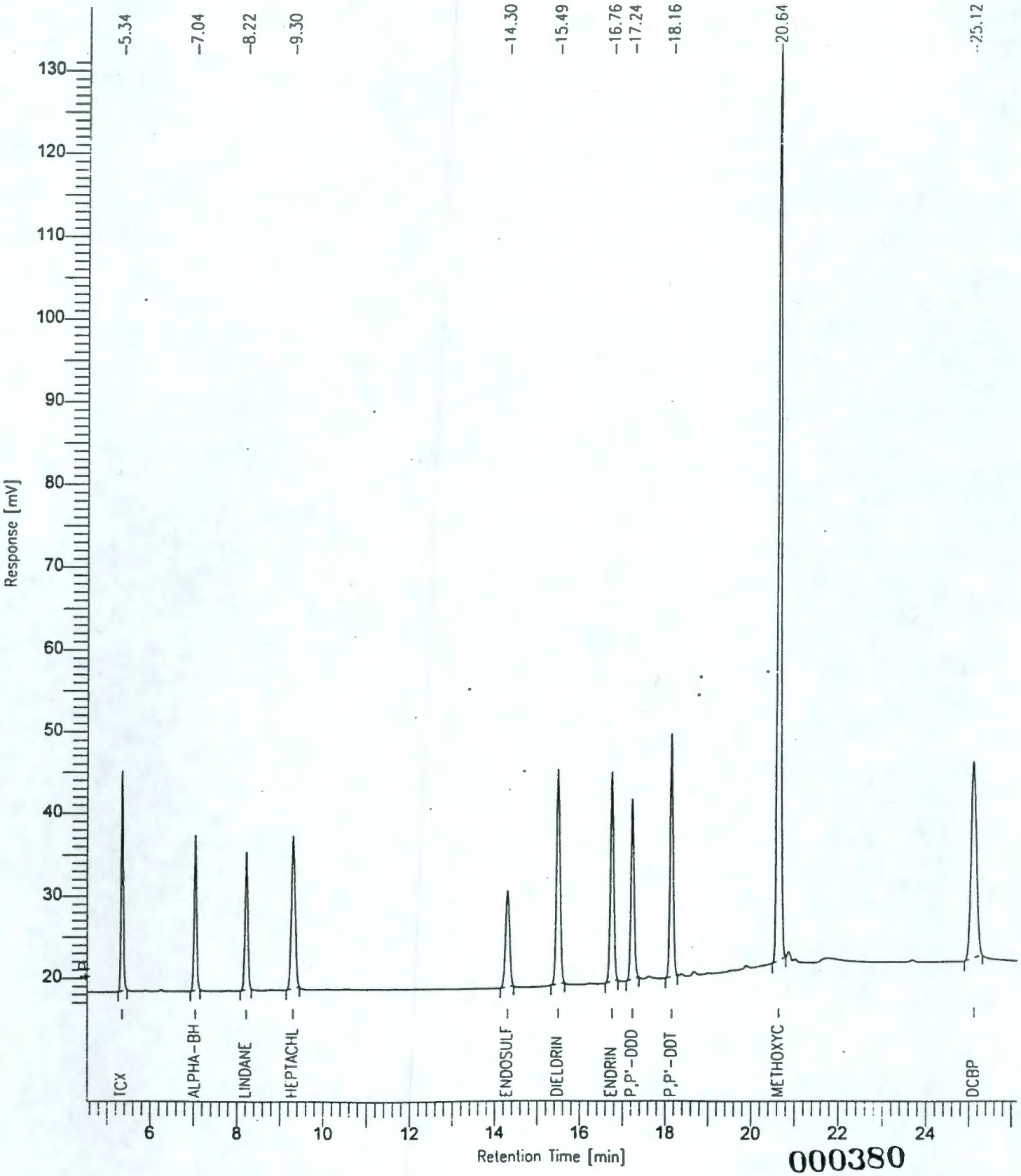
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.342	TCX	91124	B	26747	4e-15	0.0200
2	7.041	ALPHA-BHC	74808	B	18899	6e-15	0.0200
3	8.219	LINDANE	76744	B	16747	1e-14	0.0200
4	9.304	HEPTACHLOR	112095	B	18637	3e-15	0.0200
5	14.299	ENDOSULFAN A	77976	B	11723	-3e-15	0.0200
6	15.492	DIELDRIN	154603	B	26282	-8e-16	0.0400
7	16.756	ENDRIN	138005	B	25702	1e-14	0.0400
8	17.237	P,P'-DDD	112736	B	22124	-8e-15	0.0400
9	18.155	P,P'-DDT	146226	B	29845	3e-15	0.0400
10	20.644	METHOXYCHLOR	599850	B	118166	7e-15	0.2000
11	25.123	DCBP	210783	B	24023	-2e-15	0.0400

9513355.1474

Chromatogram

Sample Name : CCS*INDAM*2
FileName : C:\TC4\HP58909\999A033.RAW
Method : 999AAM.MTH
Start Time : 4.53 min End Time : 26.15 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #:
Date : 5/13/94 11:24 AM
Time of Injection: 5/9/94 06:44 AM
Low Point : 16.21 mV High Point : 131.91 mV
Plot Scale: 115.7 mV



000380

9513355.1475

Software Version: 4.0<1C29>
Sample Name : CCS*INDBM*2 Time : 5/13/94 11:26 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 07:23 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A034.RAW
Result File : C:\TC4\HP58909\999A034.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A034.RST
Proc Method : C:\TC4\HP58909\999ABM.MTH
Calib Method : C:\TC4\HP58909\999ABM.MTH
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 111 Area Threshold : 1111 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 14

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.342	TCX	90116	B	26544	4e-15	0.0200
2	8.440	BETA-BHC	52572	B	11335	0.0000	0.0200
3	9.714	DELTA-BHC	63563	B	12867	-2e-15	0.0200
4	10.498	ALDRIN	80502	B	12794	2e-15	0.0200
5	12.801	HEPTACHLOR EPOXIDE	89302	B	12902	-5e-15	0.0200
6	13.512	GAMMA-CHLORDANE	106824	B	14690	-9e-16	0.0200
7	14.216	ALPHA-CHLORDANE	102855	B	15274	8e-16	0.0200
8	15.311	P,P'-DDE	142943	B	25319	2e-15	0.0400
9	17.362	ENDOSULFAN B	143350	B	27643	3e-15	0.0400
10	18.389	ENDRIN ALDEHYDE	120148	B	23674	1e-15	0.0400
11	18.752	ENDOSULFAN SULFATE	157987	B	32062	0.0000	0.0400
13	20.876	ENDRIN KETONE	153144	B	31528	-3e-15	0.0400

Result File : 999A034.RST, Printed On 5/13/94 11:26 AM

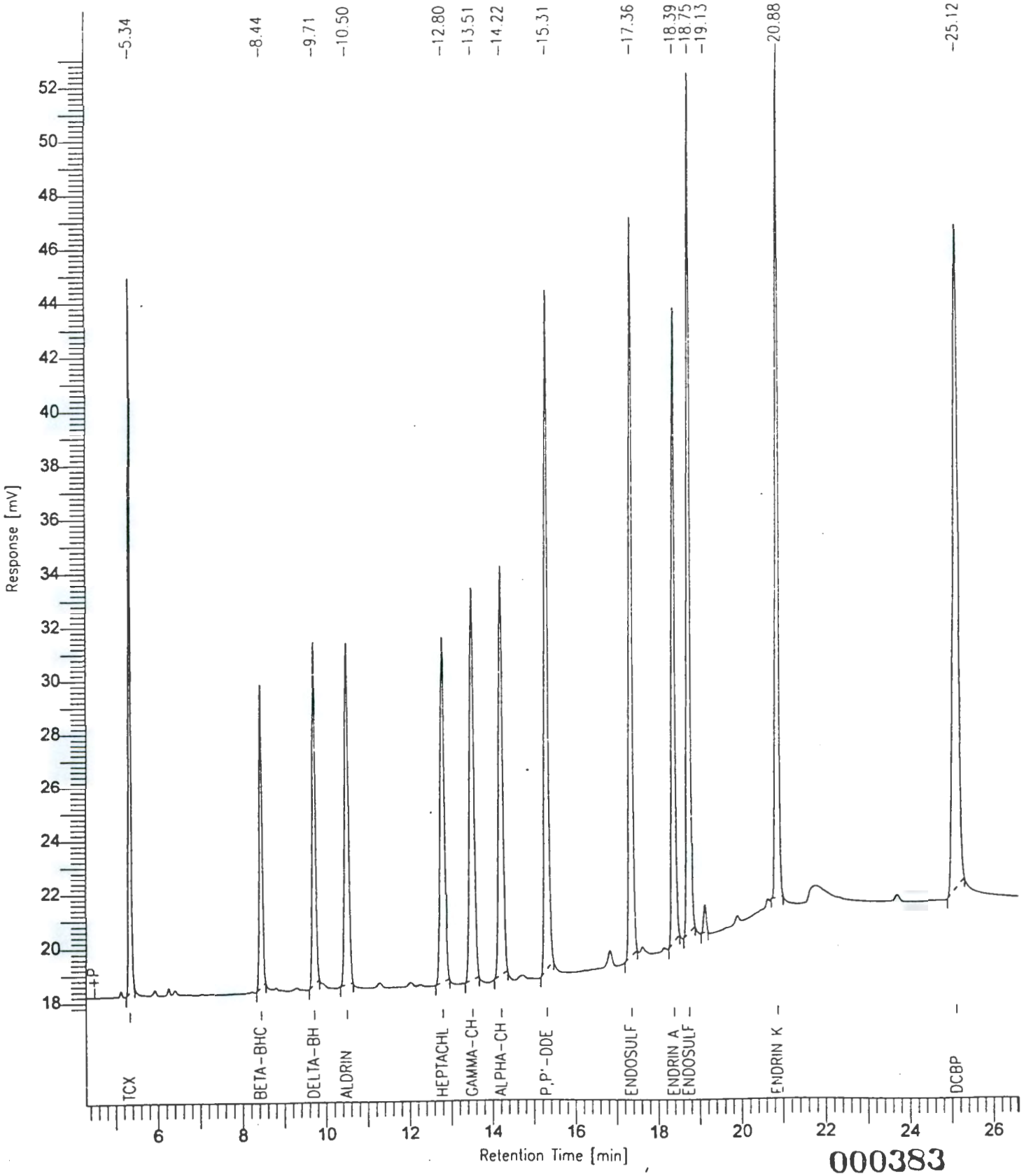
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
14	25.120	DCBP	213280	B	24770	3e-15	0.0400
			1516588		271403		0.3800

9513355.1477

Chromatogram

Sample Name : CCS*INDBM*2
FileName : C:\TC4\HP58909\999A034.RAW
Method : 999ABM.MTH
Start Time : 4.29 min End Time : 26.62 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/13/94 11:26 AM
Time of Injection: 5/9/94 07:23 AM
Low Point : 17.68 mV High Point : 53.08 mV
Plot Scale: 35.4 mV



000383

Software Version: 4.0<1C29>
Sample Name : HEXANE
Sample Number:
Operator : VIC

Time : 5/18/94 09:04 AM
Study :

Instrument : HP58909
AutoSampler :
Rack/Vial : 0/0

Channel : A A/D mV Range : 1000

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 11:40 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A040.RAW
Result File : C:\TC4\HP58909\999A040.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A040.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A040.RST
Calib Method : C:\TC4\HP58909\999A from C:\TC4\HP58909\999A040.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 5922.000000
Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 12

DATA REPORT

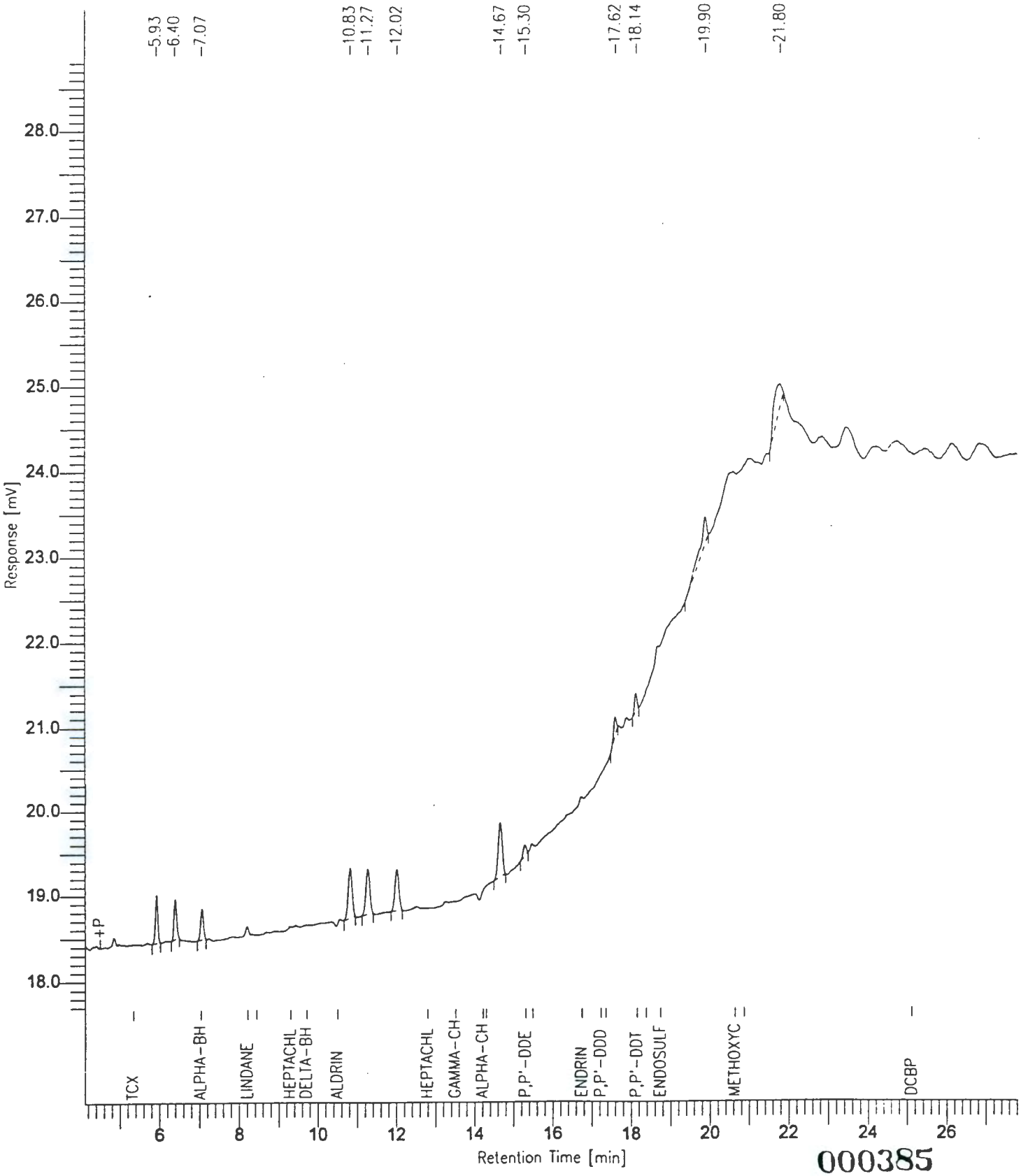
No peaks available to report

9513555.1479

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\999A040.RAW
Method :
Start Time : 4.12 min End Time : 27.83 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/18/94 09:04 AM
Time of Injection: 5/9/94 11:40 AM
Low Point : 17.67 mV High Point : 28.89 mV
Plot Scale: 11.2 mV



000385

9513355.1480

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*3 Time : 5/18/94 09:04 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 12:25 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A041.RAW
Result File : C:\TC4\HP58909\999A041.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A041.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A041.RST
Calib Method : C:\TC4\HP58909\999A from C:\TC4\HP58909\999A041.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5922.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 8

DATA REPORT

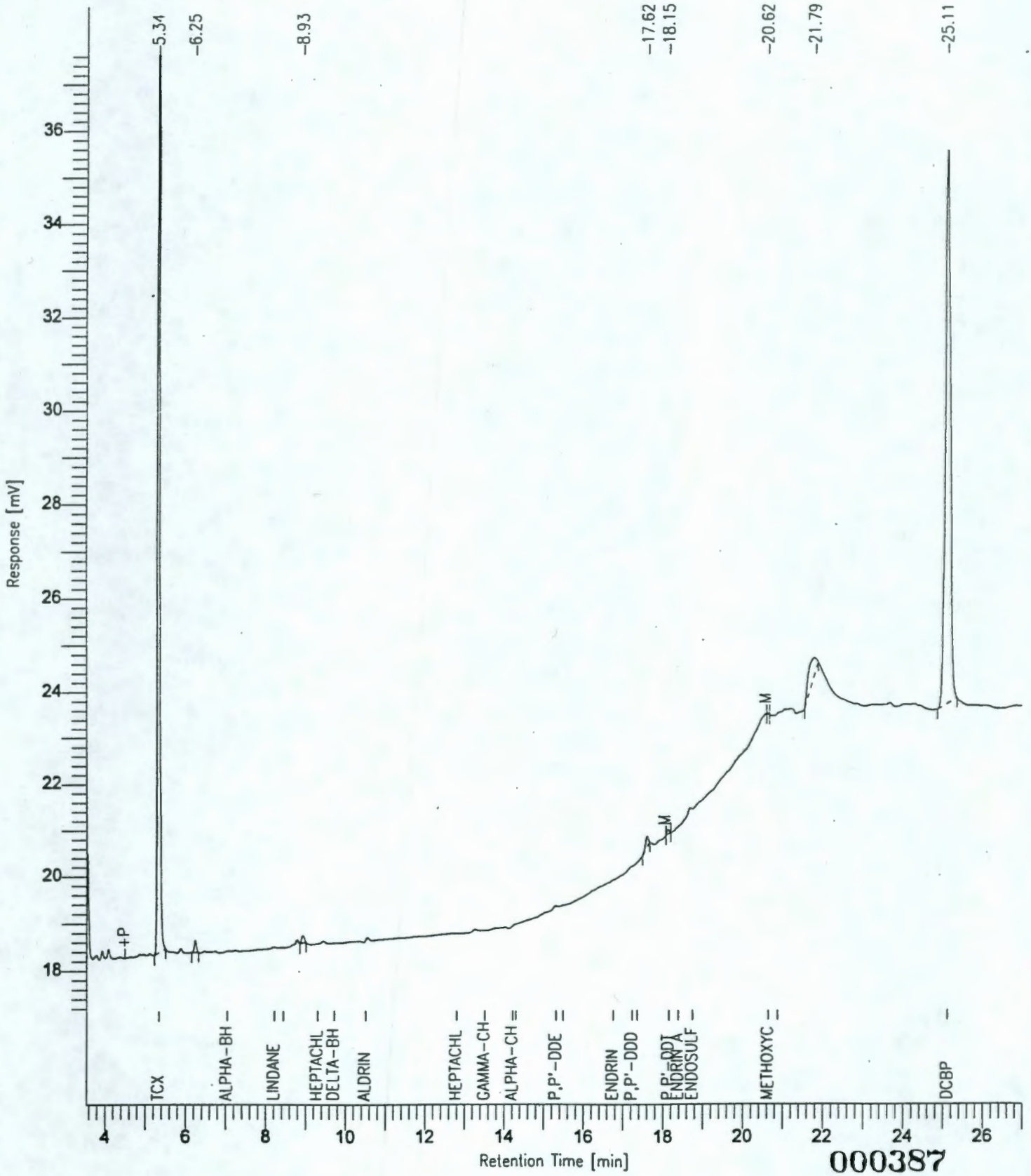
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.338	TCX	90763	B	26409	-0.0510
7	21.790		7107	B	396	-------
8	25.105	DCBP	104034	B	11862	-0.0642
			201904		38666	

9513355.1481

Chromatogram

Sample Name : MB*PIBLK*3
FileName : C:\TC4\HP58909\999A041.RAW
Method :
Start Time : 3.54 min End Time : 27.00 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/18/94 09:05 AM
Time of Injection: 5/9/94 12:25 PM
Low Point : 17.15 mV High Point : 37.64 mV
Plot Scale: 20.5 mV



000387

Software Version: 4.0<1C29>
Sample Name : CK*PEM*3 Time : 5/18/94 09:05 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 01:09 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A042.RAW
Result File : C:\TC4\HP58909\999A042.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A042.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A042.RST
Calib Method : C:\TC4\HP58909\999APEM from C:\TC4\HP58909\999A042.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 18

DATA REPORT

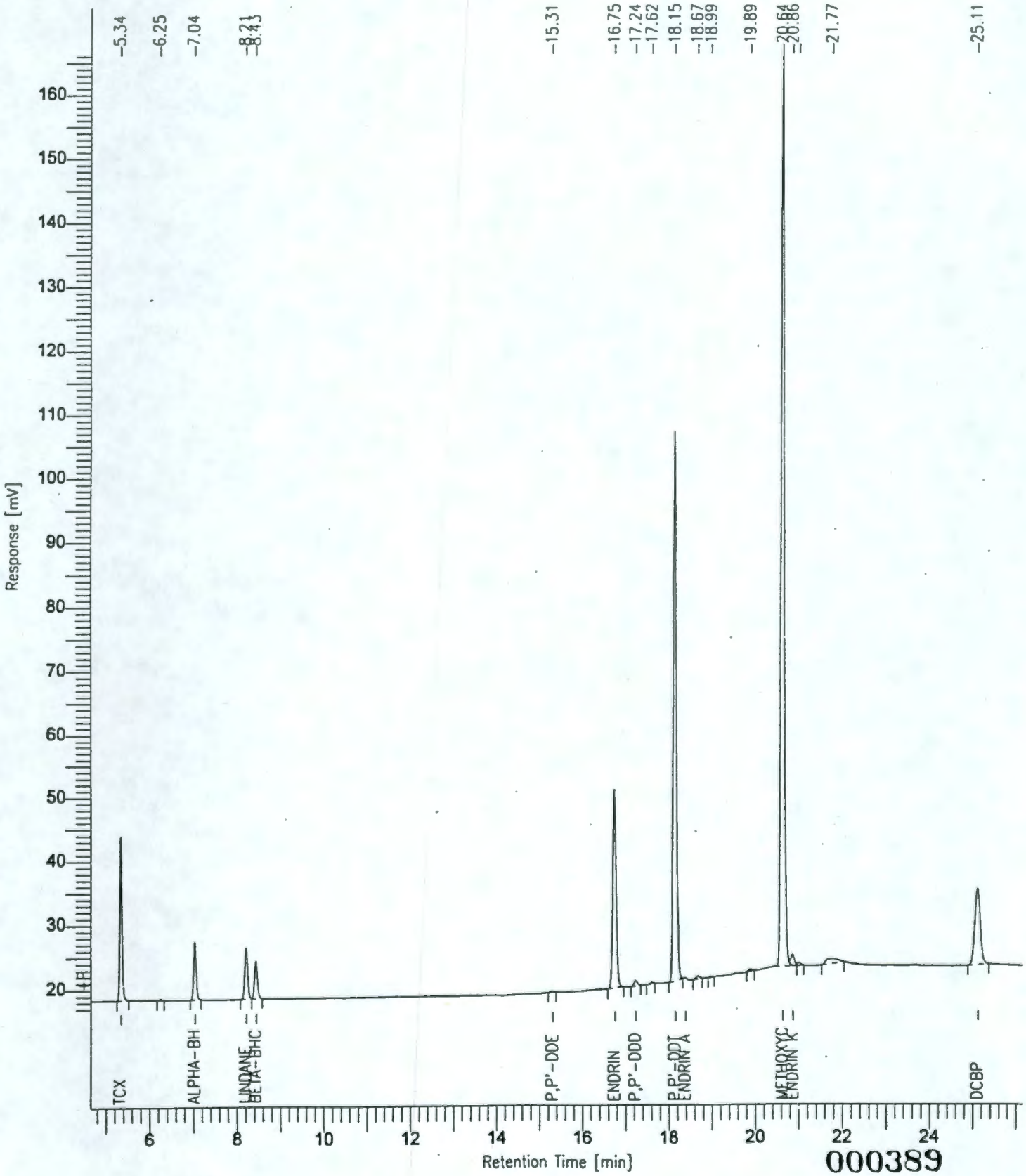
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.339	TCX	88639	B	25782	-0.0463
3	7.035	ALPHA-BHC	36806	B	9021	-0.0573
4	8.212	LINDANE	37696	B	8102	-0.0629
5	8.434	BETA-BHC	27559	V	5848	-0.0748
6	15.306	P,P'-DDE	929	B	178	-0.0376
7	16.748	ENDRIN	167722	B	31376	-0.0396
8	17.235	P,P'-DDD	4971	B	902	-0.0064
10	18.149	P,P'-DDT	417698	B	86268	-0.0195
14	20.637	METHOXYCHLOR	733847	B	143607	-0.0309
15	20.864	ENDRIN KETONE	9790	E	1761	-0.0625
18	25.107	DCBP	104964	B	12010	-0.0543

9513355.1483

Chromatogram

Sample Name : CK*PEM*3
FileName : C:\TC4\HP58909\999A042.RAW
Method :
Start Time : 4.65 min End Time : 26.17 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #:
Date : 5/18/94 09:05 AM
Time of Injection: 5/9/94 01:09 PM
Low Point : 16.25 mV High Point : 166.10 mV
Plot Scale: 149.8 mV



9513355.1484

Software Version: 4.0<1C29>
Sample Name : CK*RESC*1 Time : 5/13/94 11:54 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 01:13 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B006.RAW
Result File : C:\TC4\HP58909\999B006.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B006.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B006.RST
Calib Method : C:\TC4\HP58909\999BRES from C:\TC4\HP58909\999B006.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 17

DATA REPORT

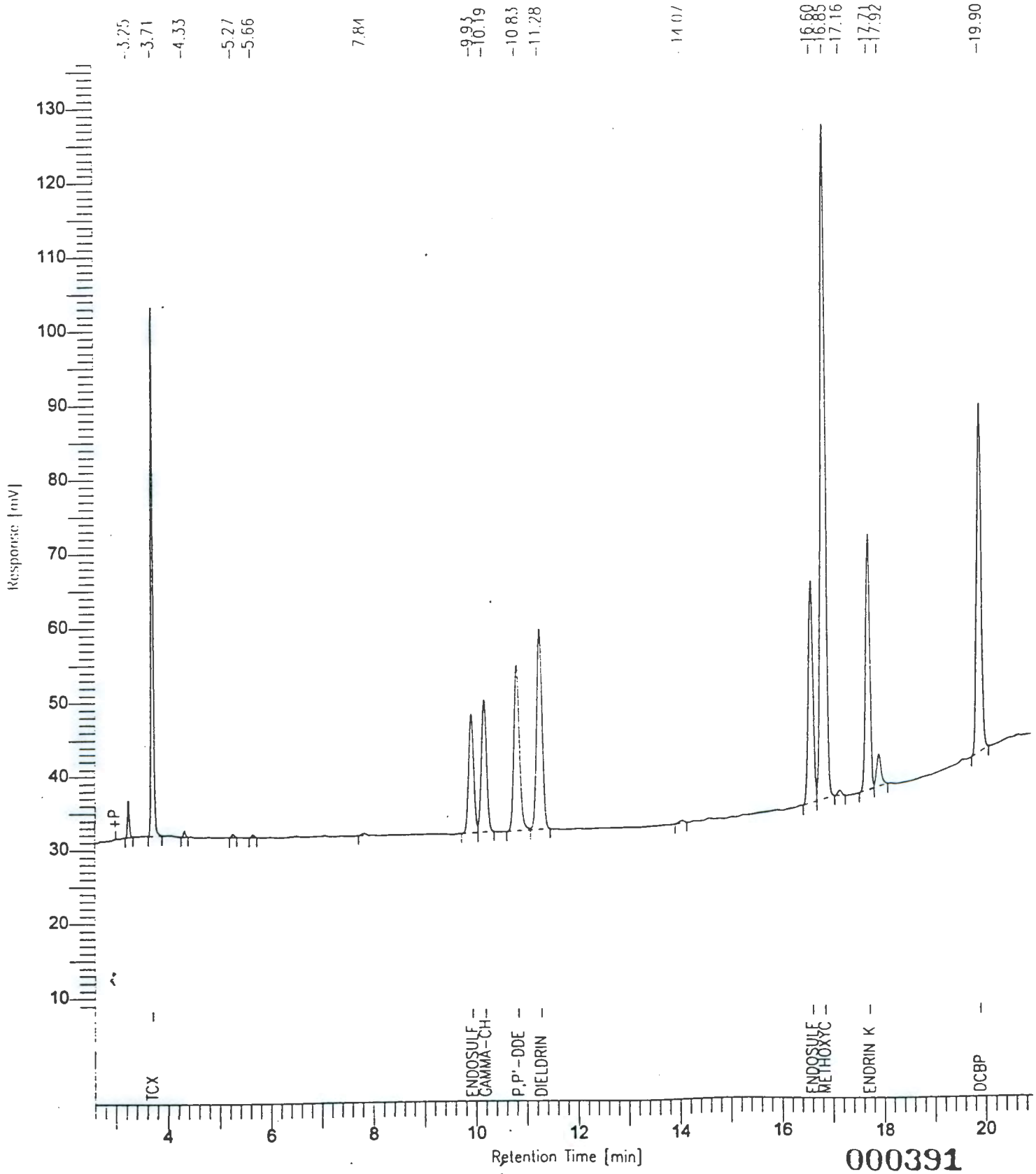
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.713	TCX	201460	B	72632	-0.0383	0.0200
7	9.932	ENDOSULFAN A	112784	B	16227	-0.0818	0.0100
8	10.185	GAMMA-CHLORDANE	130105	V	18032	-0.0956	0.0100
9	10.831	P,P'-DDE	173631	B	22545	-0.0868	0.0200
10	11.278	DIELDRIN	202363	V	27174	-0.0974	0.0200
12	16.598	ENDOSULFAN SULFATE	190929	B	30062	-0.0785	0.0200
13	16.845	METHOXYCHLOR	599266	V	91205	-0.0564	0.1000
15	17.705	ENDRIN KETONE	199952	B	34613	-0.0684	0.0200
17	19.898	DCBP	287539	B	46984	-0.0296	0.0200
			2098029		359473		0.2400

9513355.1485

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\999B006.RAW
Method :
Start Time : 2.60 min End Time : 20.92 min
Scale Factor: 0.0 Plot Offset: 8 mV

Sample #:
Date : 5/13/94 11:54 AM
Time of Injection: 5/8/94 01:13 PM
Low Point : 8.34 mV High Point : 136.75 mV
Plot Scale: 128.4 mV



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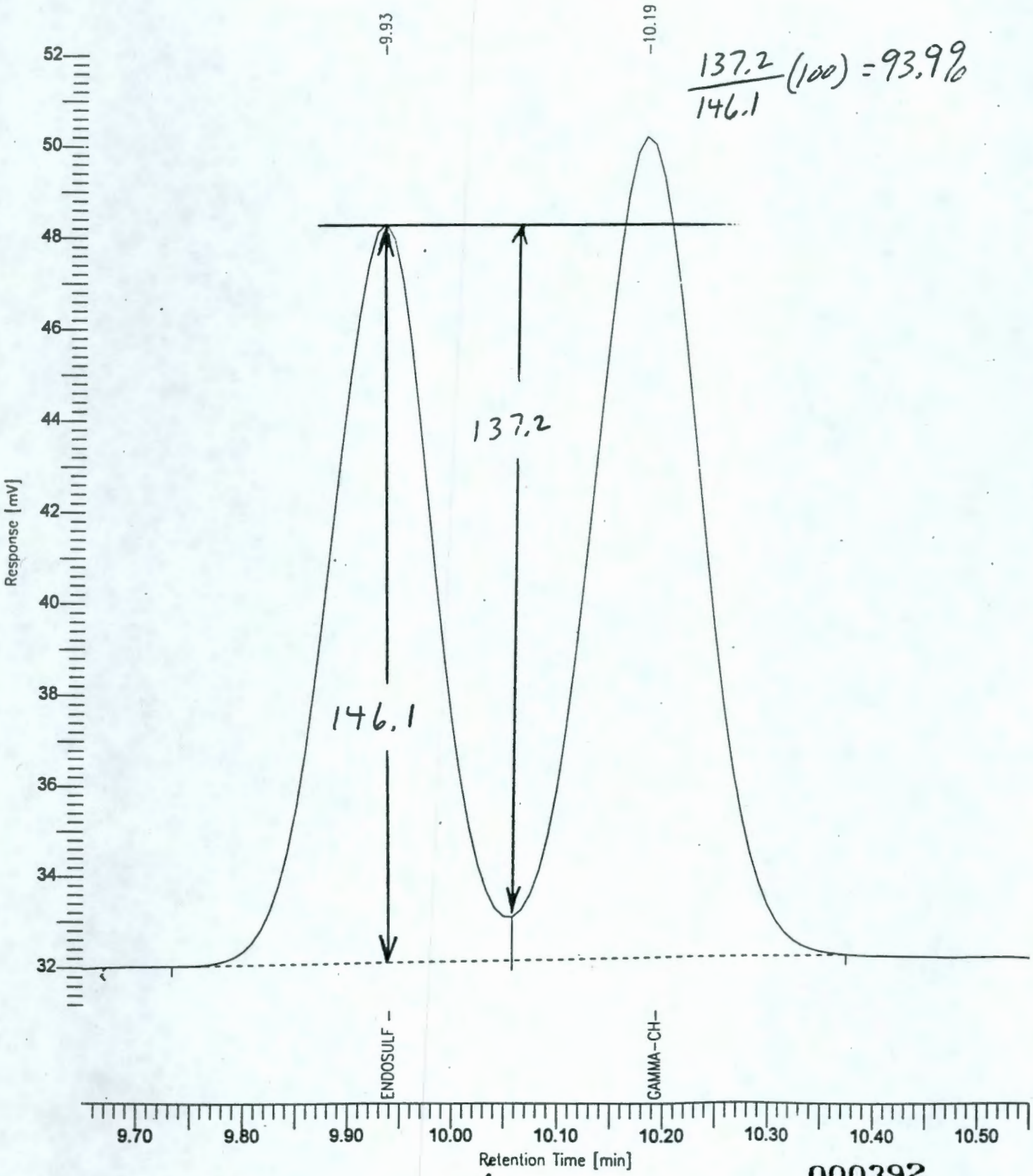
9513355.1486

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\999B006.RAW
Method :
Start Time : 9.65 min End Time : 10.55 min
Scale Factor: 0.0 Plot Offset: 31 mV

Sample #:
Date : 5/13/94 11:56 AM
Time of Injection: 5/8/94 01:13 PM
Low Point : 31.08 mV High Point : 52.03 mV
Plot Scale: 20.9 mV

$\frac{137.2}{146.1}(100) = 93.9\%$



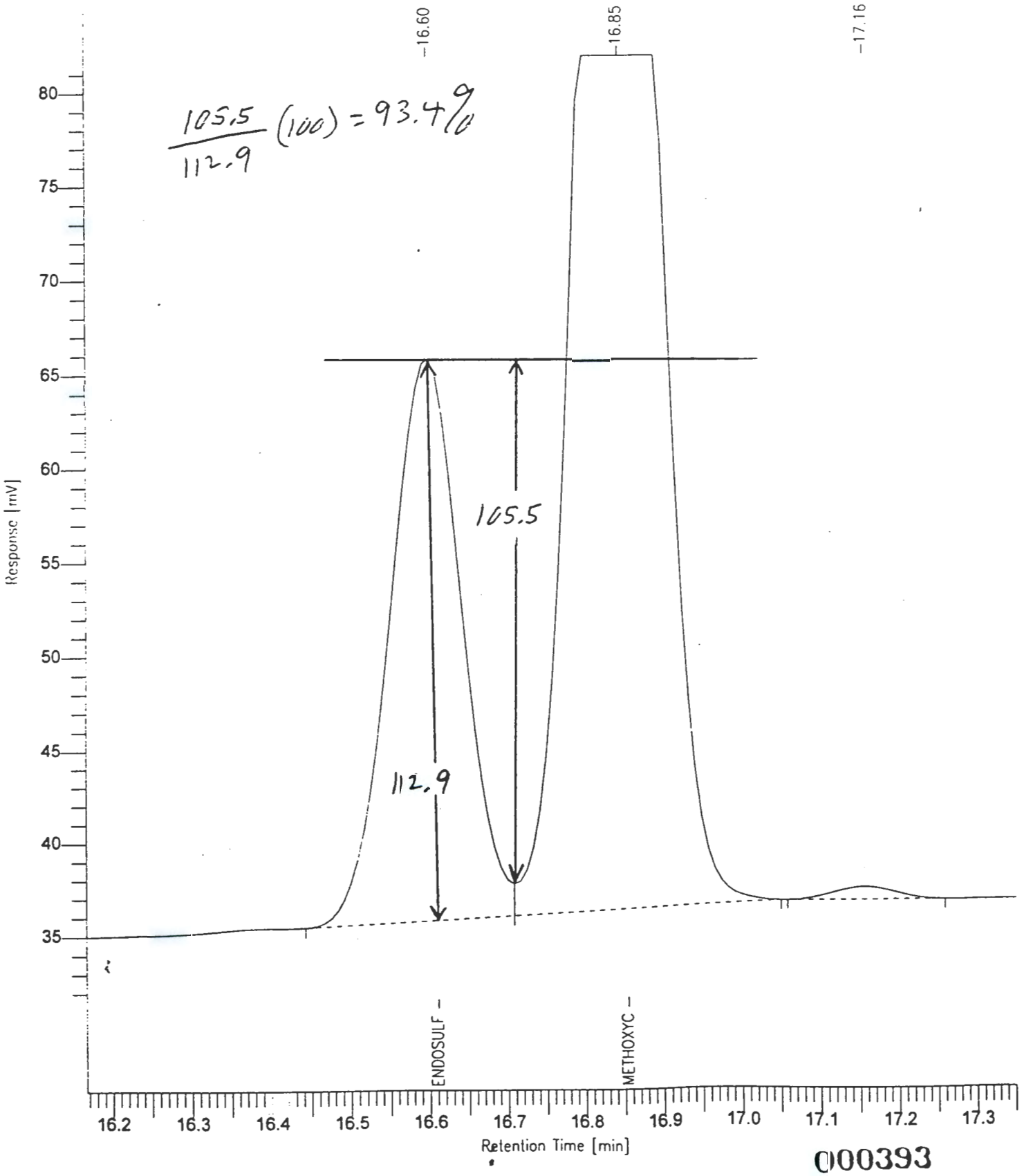
000392

9513355.1487

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\999B006.RAW
Method :
Start Time : 16.17 min End Time : 17.35 min
Scale Factor: 0.0 Plot Offset: 32 mV

Sample #:
Date : 5/13/94 11:55 AM
Time of Injection: 5/8/94 01:13 PM
Low Point : 31.67 mV High Point : 81.87 mV
Plot Scale: 50.2 mV



Software Version: 4.0<1C29>
Sample Name : CK*PEM*1 Time : 5/13/94 11:56 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 01:52 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B007.RAW
Result File : C:\TC4\HP58909\999B007.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B007.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B007.RST
Calib Method : C:\TC4\HP58909\999BPEM from C:\TC4\HP58909\999B007.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 21

DATA REPORT

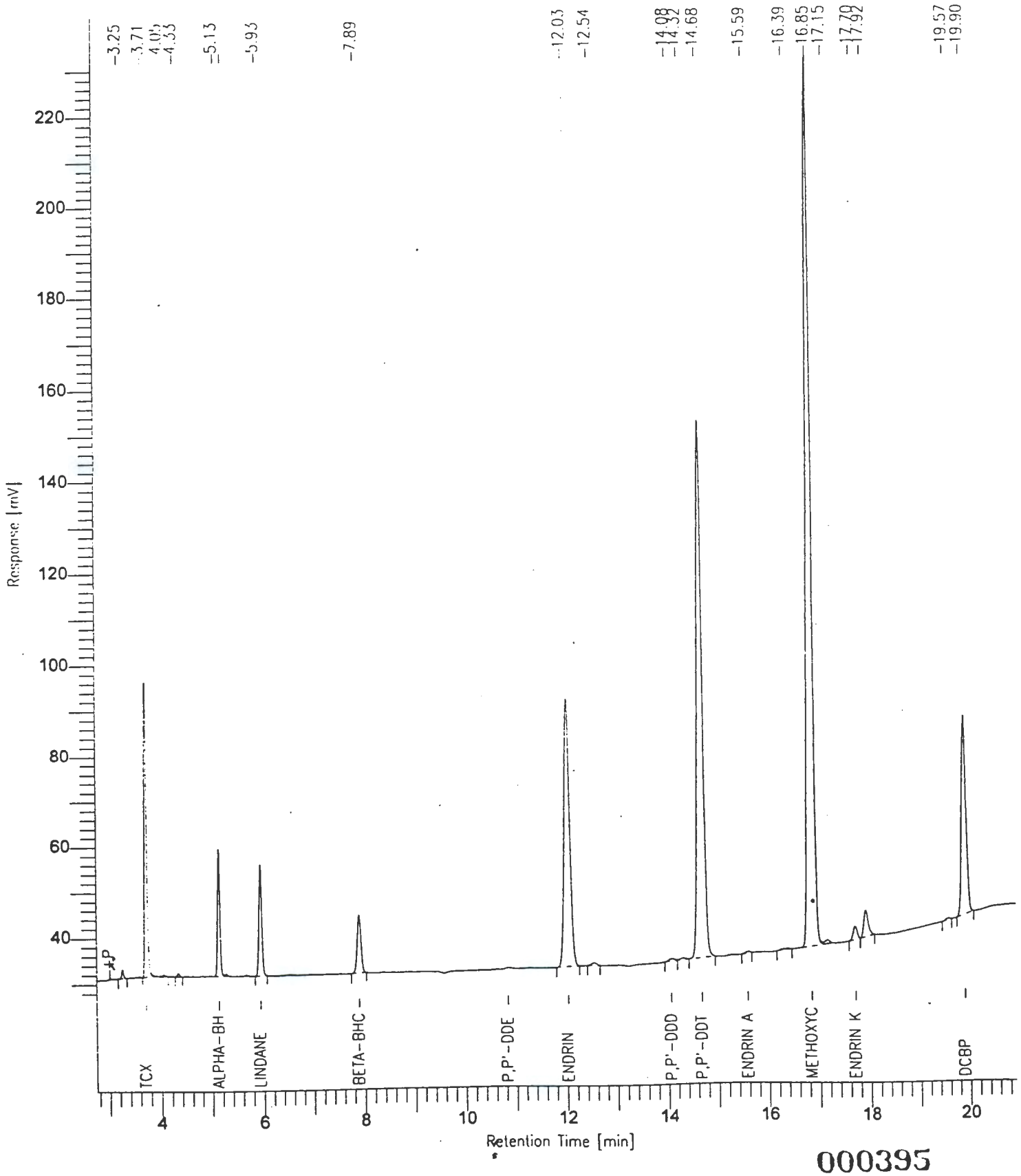
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.713	TCX	182690	B	66309	0.0159
5	5.128	ALPHA-BHC	90858	B	27932	-0.0265
7	5.934	LINDANE	92978	B	24263	-0.0176
8	7.886	BETA-BHC	66152	B	12666	0.0003
9	12.026	ENDRIN	448129	B	58975	0.0146
11	14.081	P,P'-DDD	4264	B	510	0.1210
13	14.678	P,P'-DDT	873220	V	118189	0.0287
14	15.585	ENDRIN ALDEHYDE	2037	B	324	0.0718
16	16.846	METHOXYCHLOR	1324397	B	195856	0.0206
18	17.702	ENDRIN KETONE	16275	B	2861	-0.0123
21	19.898	DCBP	269298	B	43989	-0.0048

9513355.1489

Chromatogram

Sample Name : CK*PEM*1
FileName : C:\TC4\HP58909\999B007.RAW
Method :
Start Time : 2.74 min End Time : 20.92 min
Scale Factor: 0.0 Plot Offset: 27 mV

Sample #:
Date : 5/13/94 11:56 AM
Time of Injection: 5/8/94 01:52 PM
Low Point : 26.62 mV High Point : 231.54 mV
Plot Scale: 204.9 mV



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9513355.1490

Software Version: 4.0<1C29>
Sample Name : ICV*AR1660*1 Time : 5/13/94 11:57 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 02:31 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B008.RAW
Result File : C:\TC4\HP58909\999B008.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B008.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B008.RST
Calib Method : C:\TC4\HP58909\999B1660 from C:\TC4\HP58909\999B008.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 49

DATA REPORT

Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
1	3.247		14996	B	5792	-------	1.4996e-07
2	3.712	TCX	192258	B	69816	-2e-15	0.0200
4	4.244		3796	B	1183	-------	3.7958e-08
5	4.333		3564	V	1058	-------	3.5642e-08
6	4.485		4782	B	1461	-------	4.7820e-08
7	4.585		26365	V	7251	-------	2.6365e-07
9	5.257	PCB-1016-1	60641	B	14073	-7e-15	0.1000
10	5.468		5113	E	909	-------	5.1130e-08
11	5.640		19978	V	3888	-------	1.9978e-07
12	5.732		22307	V	5091	-------	2.2307e-07
13	6.022		13698	B	2953	-------	1.3698e-07
14	6.215	PCB-1016-2	105649	V	20436	2e-15	0.1000

000396

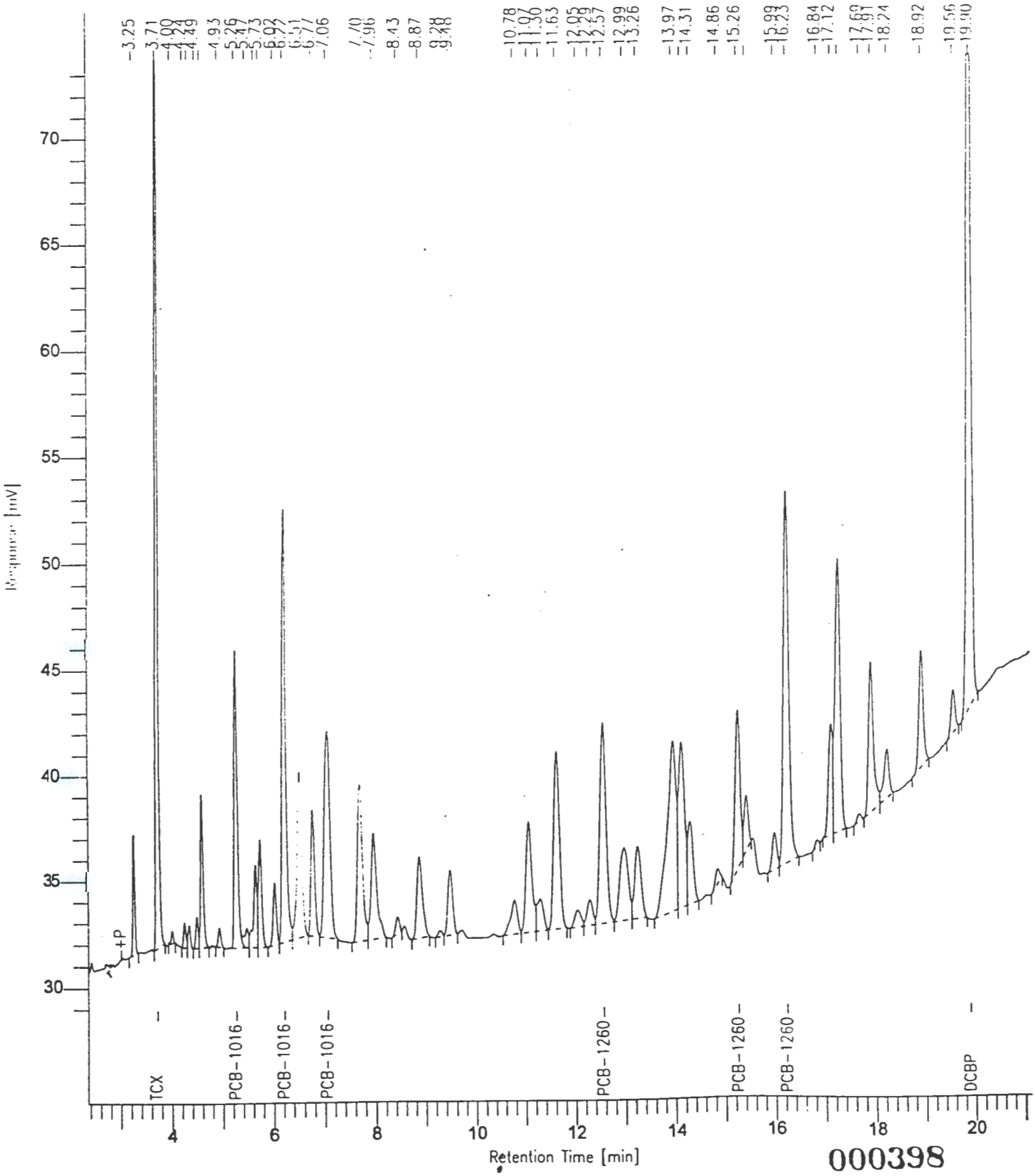
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
15	6.513		48236	V	7896	-------	4.8236e-07
16	6.765		29826	B	5984	-------	2.9826e-07
17	7.056	PCB-1016-3	78839	V	9815	-4e-15	0.1000
18	7.695		51510	B	7463	-------	5.1510e-07
19	7.956		39505	V	5027	-------	3.9505e-07
20	8.428		4155	B	795	-------	4.1550e-08
21	8.870		29906	B	3860	-------	2.9906e-07
23	9.479		20096	V	3083	-------	2.0096e-07
24	10.780		15096	B	1606	-------	1.5096e-07
25	11.069		44444	V	5260	-------	4.4444e-07
26	11.299		13595	V	1532	-------	1.3595e-07
27	11.630		68340	V	8465	-------	6.8340e-07
28	12.050		7084	B	804	-------	7.0844e-08
29	12.294		9688	V	1210	-------	9.6885e-08
30	12.566	PCB-1260-1	82657	V	9584	-4e-15	0.1000
31	12.988		41394	V	3456	-------	4.1394e-07
32	13.261		31025	V	3440	-------	3.1025e-07
33	13.970		102151	B	8158	-------	1.0215e-06
34	14.138		65620	V	7959	-------	6.5620e-07
35	14.308		29660	V	3972	-------	2.9660e-07
36	14.861		4540	B	708	-------	4.5395e-08
37	15.259	PCB-1260-2	53650	B	7619	-4e-15	0.1000
38	15.427		15589	V	2695	-------	1.5589e-07
39	15.993		11700	B	1778	-------	1.1700e-07
40	16.231	PCB-1260-3	130483	V	17619	-9e-15	0.1000
42	17.119		30583	B	5323	-------	3.0583e-07
43	17.259		93254	V	12941	-------	9.3254e-07
45	17.913		49092	B	7155	-------	4.9092e-07
46	18.236		17314	V	2337	-------	1.7314e-07
47	18.921		34020	B	5548	-------	3.4020e-07
48	19.564		11973	B	2067	-------	1.1973e-07
49	19.897	DCBP	277771	B	45355	-7e-15	0.0200
			2015939		344423		0.6400

9513355.1492

Chromatogram

Sample Name : ICV*AR1660*1
FileName : C:\TC4\HP58909\999B008.RAW
Method :
Start Time : 2.35 min End Time : 21.11 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/13/94 11:57 AM
Time of Injection: 5/8/94 02:31 PM
Low Point : 28.99 mV High Point : 73.69 mV
Plot Scale: 44.7 mV



000398

9513355.1493

Software Version: 4.0<1C29>
Sample Name : ICV*AR1221*1 Time : 5/13/94 11:58 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 03:10 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B009.RAW
Result File : C:\TC4\HP58909\999B009.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B009.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B009.RST
Calib Method : C:\TC4\HP58909\999B1221 from C:\TC4\HP58909\999B009.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.249	PCB-1221-1	38820	B	13398	3e-15	0.2000
2	3.712	TCX	206466	B	71272	-2e-15	0.0200
3	3.948		3608	V	1320	-------	3.6081e-08
4	4.001		7640	V	2200	-------	7.6404e-08
5	4.242	PCB-1221-2	19714	B	6466	0.0000	0.2000
6	4.484		16084	B	4901	-------	1.6084e-07
7	4.585	PCB-1221-3	62485	V	16641	-5e-15	0.2000
8	5.257		21995	B	4055	-------	2.1995e-07
9	5.549		8041	V	1742	-------	8.0407e-08
10	5.642		5644	V	1236	-------	5.6445e-08
11	5.729		4933	V	1237	-------	4.9330e-08
12	6.021		3453	B	739	-------	3.4530e-08

9513355.1491

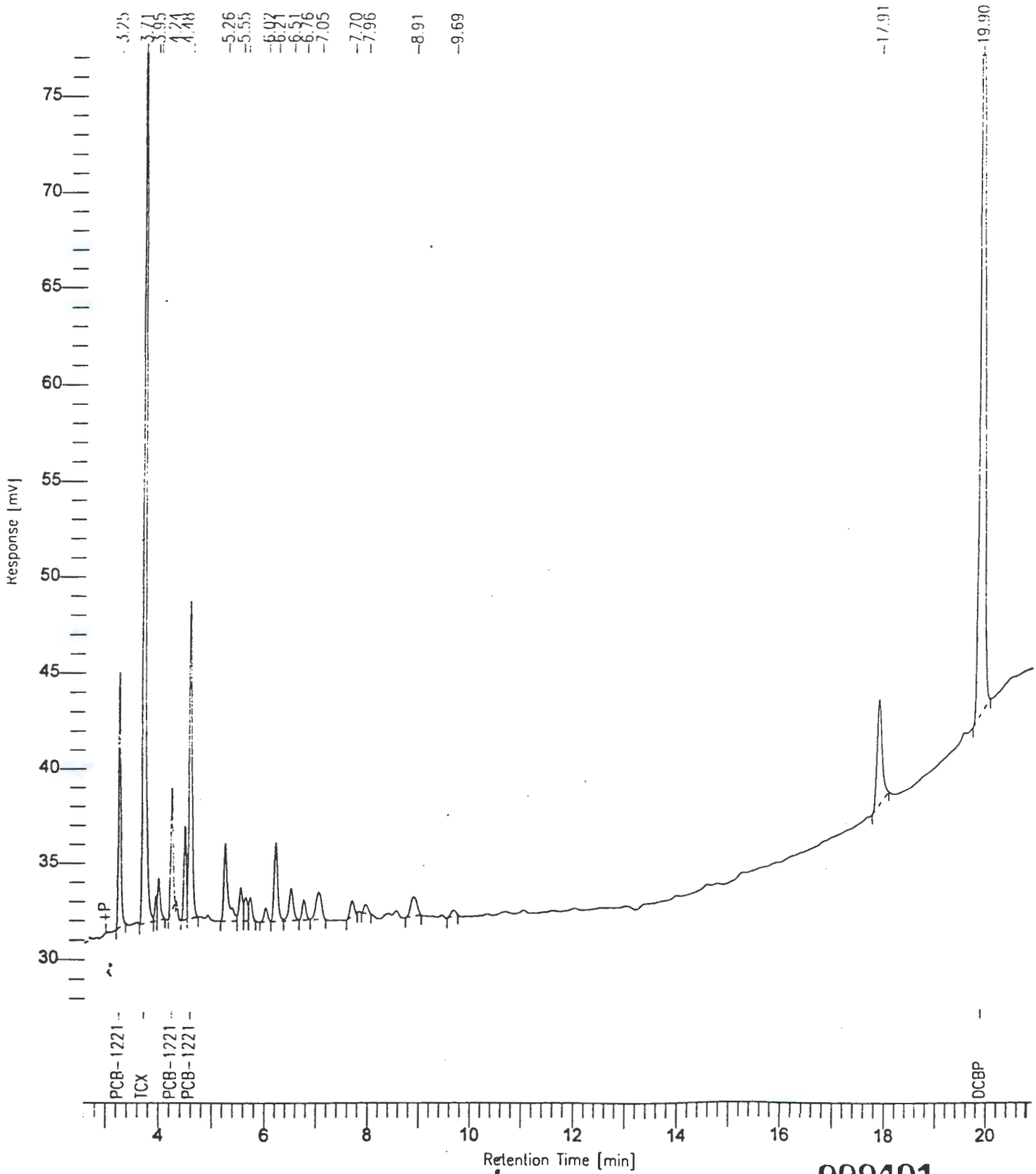
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
13	6.214		20516	B	4144	-------	2.0516e-07
14	6.512		10315	V	1694	-------	1.0315e-07
15	6.763		5393	V	1067	-------	5.3927e-08
16	7.053		11047	V	1411	-------	1.1047e-07
17	7.695		4538	B	818	-------	4.5383e-08
19	8.907		8834	B	1014	-------	8.8335e-08
21	17.914		36967	B	5570	-------	3.6967e-07
22	19.897	DCBP	282091	B	45652	4e-15	0.0200
			778585		186578		0.6400

9513555.1495

Chromatogram

:ample Name : ICV*AR1221*1
'ileName : C:\TC4\HP58909\999B009.RAW
Method :
:tart Time : 2.60 min End Time : 20.92 min
:cale Factor: 0.0 Plot Offset: 27 mV

Sample #:
Date : 5/13/94 11:58 AM
Time of Injection: 5/8/94 03:10 PM
Low Point : 27.45 mV High Point : 77.25 mV
Plot Scale: 49.8 mV



000401

9513555.1496

Software Version: 4.0<1C29>
Sample Name : ICV*AR1232*1 Time : 5/13/94 11:58 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 03:49 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B010.RAW
Result File : C:\TC4\HP58909\999B010.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B010.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B010.RST
Calib Method : C:\TC4\HP58909\999B1232 from C:\TC4\HP58909\999B010.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 27

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.247		22504	B	8319	-------	2.2505e-07
2	3.712	TCX	199247	B	71452	-2e-15	0.0200
4	4.243		7881	B	2471	-------	7.8815e-08
6	4.485		6484	B	2002	-------	6.4844e-08
7	4.585	PCB-1232-1	30091	V	8287	8e-15	0.1000
9	5.257	PCB-1232-2	26965	B	6551	-8e-15	0.1000
11	5.641		7295	V	1723	-------	7.2951e-08
12	5.731		9232	V	2210	-------	9.2322e-08
13	6.022		6260	B	1341	-------	6.2598e-08
14	6.215	PCB-1232-3	46803	V	9219	-2e-15	0.1000
15	6.513		22468	V	3605	-------	2.2468e-07
16	6.764		13591	V	2640	-------	1.3591e-07

Result File : 999B010.RST, Printed On 5/13/94 11:58 AM

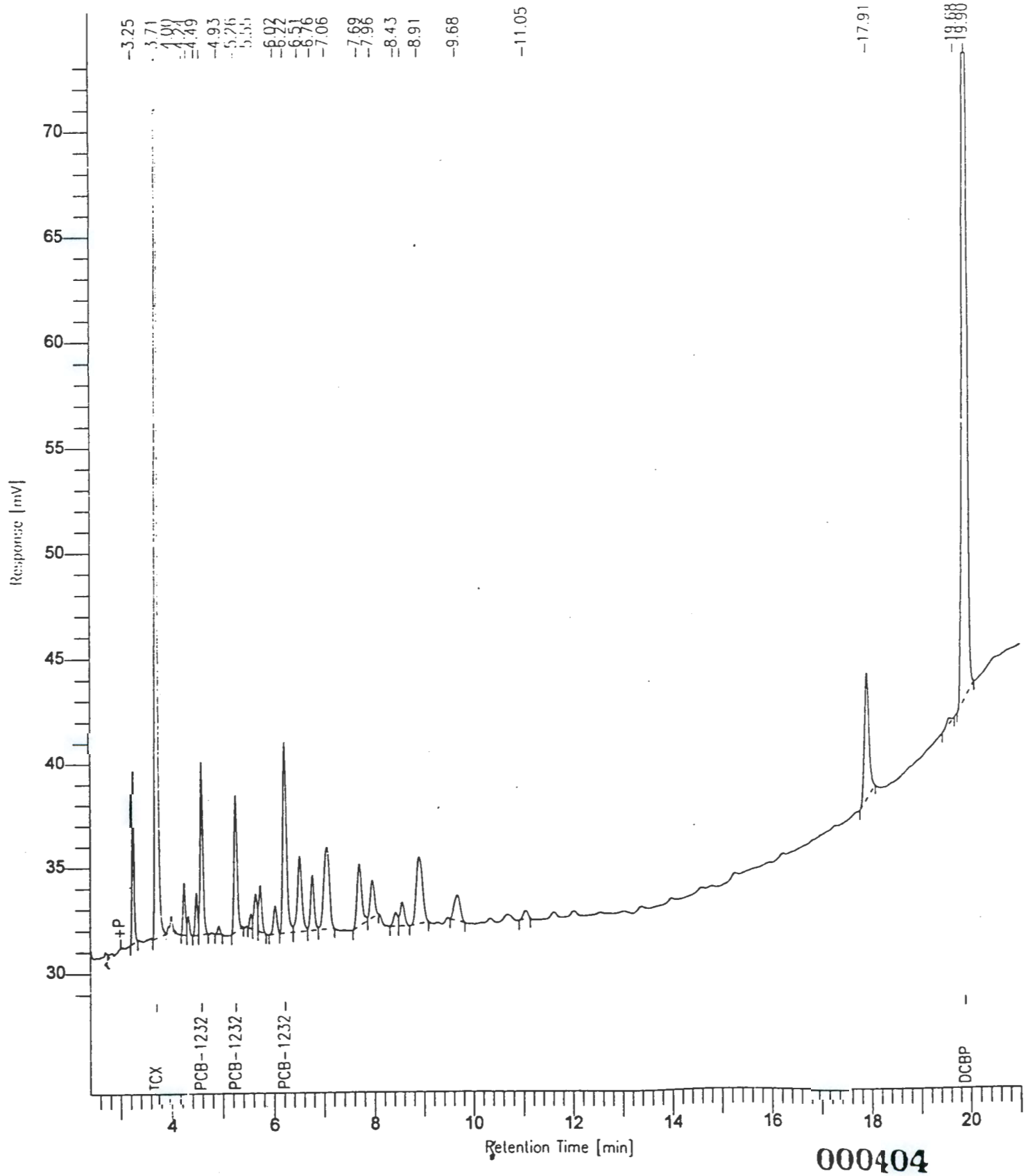
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
17	7.055		30682	V	3907	-------	3.0682e-07
18	7.694		19367	B	2975	-------	1.9367e-07
19	7.955		10527	V	1796	-------	1.0527e-07
20	8.428		3848	B	656	-------	3.8482e-08
21	8.563		7196	V	1140	-------	7.1963e-08
22	8.909		28666	B	3180	-------	2.8667e-07
23	9.680		10518	B	1235	-------	1.0518e-07
25	17.913		38746	B	6065	-------	3.8747e-07
27	19.897	DCBP	279509	B	45257	0.0000	0.0200
			827884		186034		0.3400

9513355.1498

Chromatogram

Sample Name : ICV*AR1232*1
FileName : C:\TC4\HP58909\999B010.RAW
Method :
Start Time : 2.40 min End Time : 21.01 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/13/94 11:58 AM
Time of Injection: 5/8/94 03:49 PM
Low Point : 28.67 mV High Point : 73.43 mV
Plot Scale: 44.8 mV



000404

9513355.1499

Software Version: 4.0<1C29>
Sample Name : ICV*AR1242*1 Time : 5/13/94 11:59 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 04:28 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B011.RAW
Result File : C:\TC4\HP58909\999B011.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B011.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B011.RST
Calib Method : C:\TC4\HP58909\999B1242 from C:\TC4\HP58909\999B011.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 32

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.246		13438	B	5178	-------	1.3438e-07
2	3.712	TCX	194222	B	69971	6e-15	0.0200
4	4.244		3880	B	1172	-------	3.8801e-08
6	4.484		4596	B	1394	-------	4.5955e-08
7	4.585		24286	V	6640	-------	2.4287e-07
9	5.257	PCB-1242-1	45498	B	11054	2e-15	0.1000
11	5.640		13462	V	2856	-------	1.3462e-07
12	5.731		16721	V	3925	-------	1.6721e-07
13	6.021		11170	B	2394	-------	1.1170e-07
14	6.214	PCB-1242-2	82770	V	15989	3e-15	0.1000
15	6.513		37891	V	6180	-------	3.7891e-07
16	6.764		23197	B	4639	-------	2.3197e-07

Result File : 999B011.RST, Printed On 5/13/94 11:59 AM

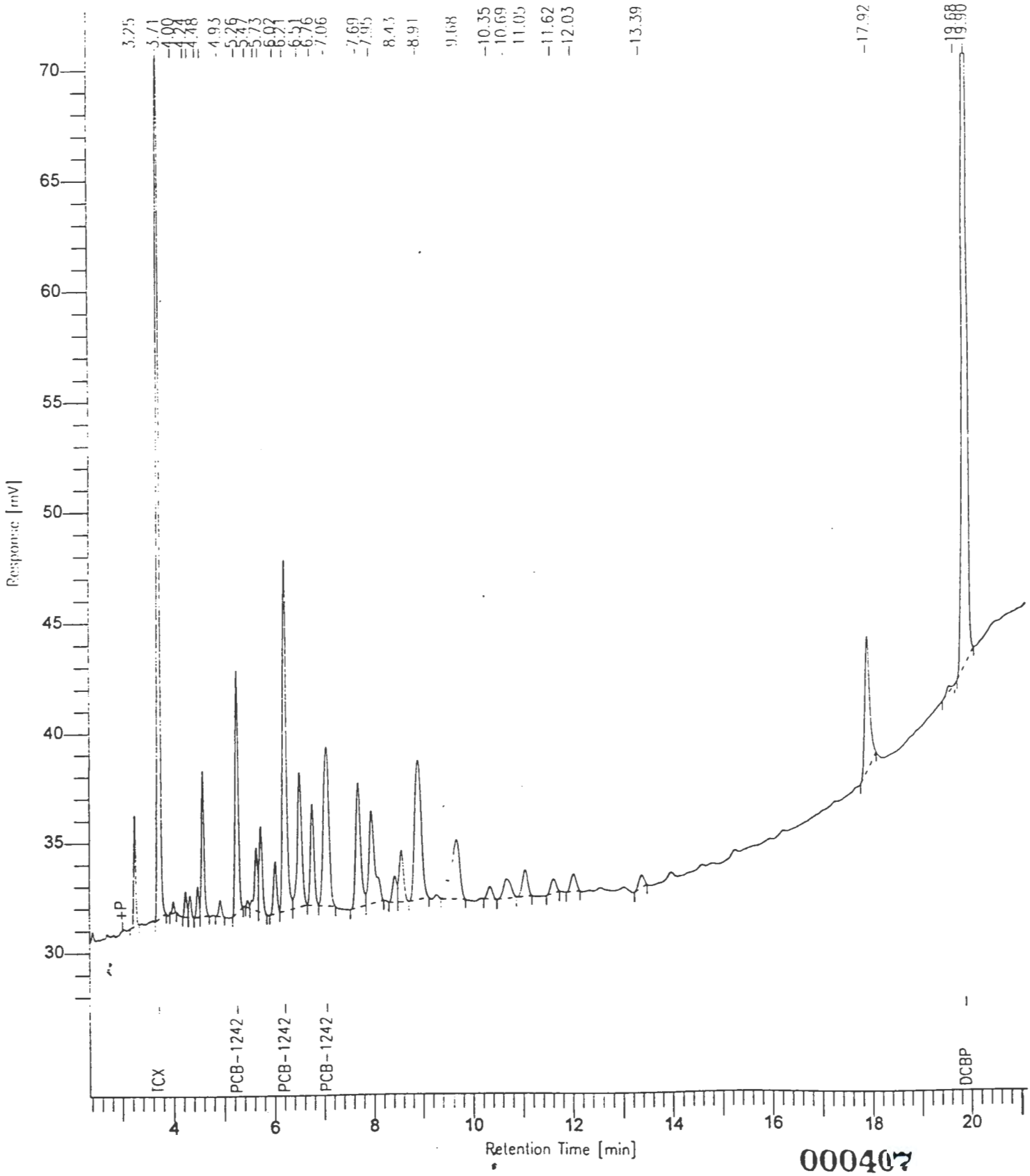
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
17	7.056	PCB-1242-3	58039	V	7303	3e-15	0.1000
18	7.694		39231	B	5702	-------	3.9231e-07
19	7.954		35514	V	4278	-------	3.5514e-07
20	8.428		7111	B	1199	-------	7.1106e-08
21	8.563		15144	V	2367	-------	1.5144e-07
22	8.909		59766	B	6395	-------	5.9767e-07
23	9.676		33000	B	2715	-------	3.3001e-07
24	10.347		3970	B	570	-------	3.9700e-08
25	10.688		9339	B	883	-------	9.3389e-08
26	11.053		8749	V	1199	-------	8.7489e-08
27	11.622		4901	B	662	-------	4.9010e-08
28	12.029		6022	B	801	-------	6.0225e-08
29	13.392		4530	B	580	-------	4.5303e-08
30	17.916		41266	B	6103	-------	4.1266e-07
32	19.896	DCBP	277966	B	45079	-7e-15	0.0200
			1075680		217229		0.3400

9513355.1501

Chromatogram

Sample Name : ICV*AR1242*1
FileName : C:\TC4\HP58909\999B011.RAW
Method :
Start Time : 2.35 min End Time : 21.11 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 5/13/94 11:59 AM
Time of Injection: 5/8/94 04:28 PM
Low Point : 27.72 mV High Point : 70.56 mV
Plot Scale: 42.8 mV



000407

9513555.1502

Software Version: 4.0<1C29>
Sample Name : ICV*AR1248*1 Time : 5/13/94 11:59 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 05:07 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B012.RAW
Result File : C:\TC4\HP58909\999B012.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B012.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B012.RST
Calib Method : C:\TC4\HP58909\999B1248 from C:\TC4\HP58909\999B012.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 29

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.246		14012	B	5441	-------	1.4012e-07
2	3.712	TCX	192249	B	69696	-4e-15	0.0200
5	5.257		24376	B	5955	-------	2.4376e-07
6	5.642		7135	B	1615	-------	7.1350e-08
7	5.731		5751	V	1455	-------	5.7510e-08
9	6.213	PCB-1248-1	53917	B	10540	2e-15	0.1000
10	6.508		24454	V	3492	-------	2.4454e-07
11	6.766		16693	V	3325	-------	1.6693e-07
12	7.050	PCB-1248-2	99822	V	12427	8e-16	0.1000
13	7.693		65097	B	9726	-------	6.5097e-07
14	7.953		52125	V	7294	-------	5.2125e-07
15	8.427		11263	B	1965	-------	1.1263e-07

Result File : 999B012.RST, Printed On 5/13/94 11:59 AM

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
16	8.563		28530	V	4226	-------	2.8530e-07
17	8.902	PCB-1248-3	119438	V	12186	0.0000	0.1000
18	9.281		4369	V	616	-------	4.3691e-08
19	9.681		81130	V	5360	-------	8.1130e-07
20	10.348		11520	B	1642	-------	1.1520e-07
21	10.690		24972	B	2425	-------	2.4972e-07
22	11.051		26562	V	3570	-------	2.6562e-07
23	11.624		10644	B	1445	-------	1.0644e-07
24	12.027		18350	B	2344	-------	1.8350e-07
25	13.389		14985	B	1755	-------	1.4985e-07
26	13.981		4314	B	540	-------	4.3145e-08
28	17.915		36910	B	5664	-------	3.6910e-07
29	19.896	DCBP	273417	B	44499	4e-15	0.0200
			1222035		219201		0.3400

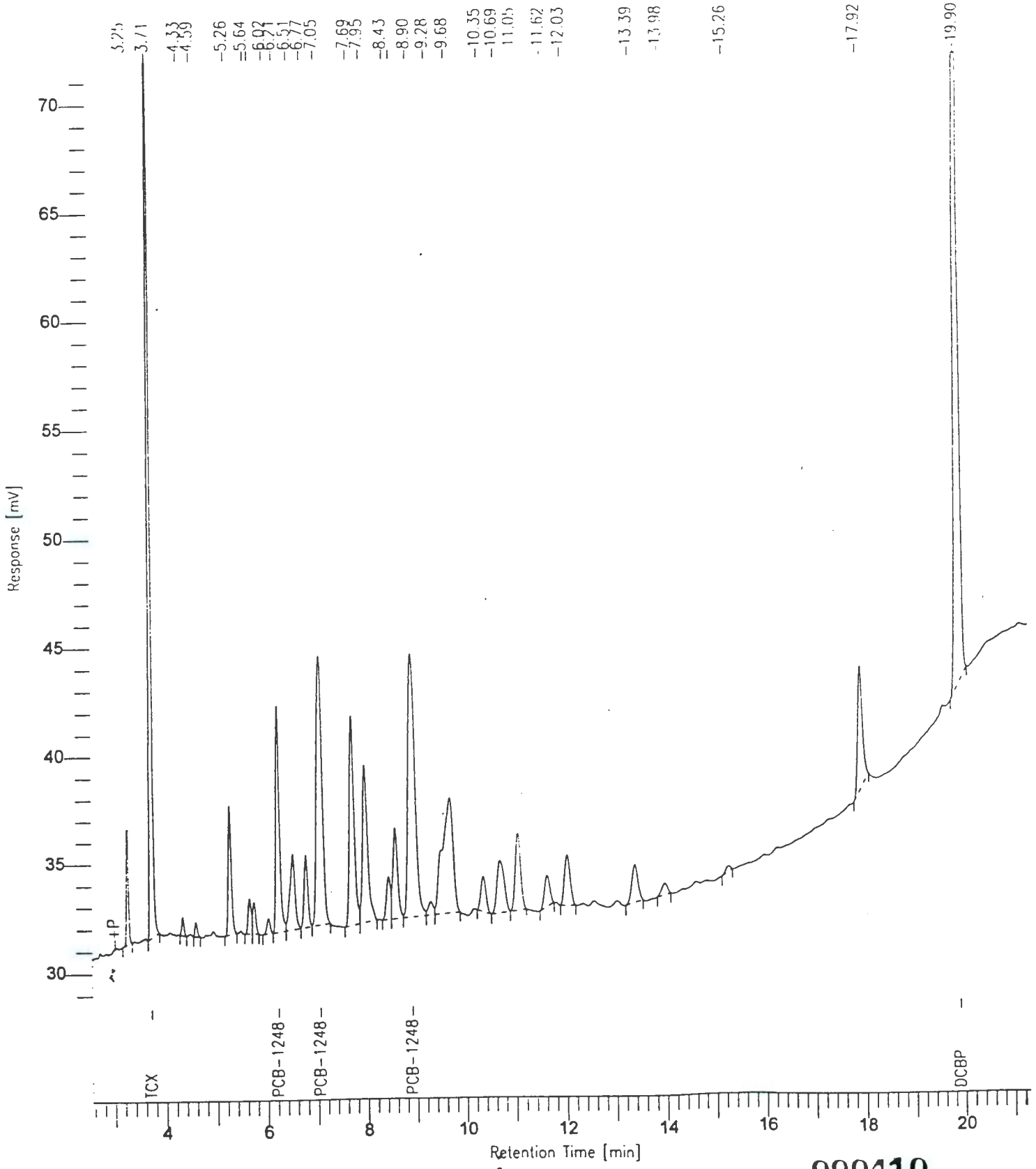
9513555.1504

Chromatogram

Sample Name : ICV*AR1248*1
FileName : C:\TC4\HP58909\999B012.RAW
Method :
Start Time : 2.55 min
Scale Factor: 0.0

End Time : 21.31 min
Plot Offset: 28 mV

Sample #:
Date : 5/13/94 11:59 AM
Time of Injection: 5/8/94 05:07 PM
Low Point : 28.41 mV
Plot Scale: 43.5 mV



000410

9513355.1505

Software Version: 4.0<1C29>
Sample Name : ICV*AR1254*1 Time : 5/13/94 12:00 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 05:46 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B013.RAW
Result File : C:\TC4\HP58909\999B013.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B013.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B013.RST
Calib Method : C:\TC4\HP58909\999B1254 from C:\TC4\HP58909\999B013.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 33

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.247		14491	B	5655	-------	1.4491e-07
2	3.713	TCX	193652	B	70195	6e-15	0.0200
7	7.024		43653	B	6973	-------	4.3653e-07
8	7.690		20310	B	3132	-------	2.0310e-07
9	7.950		6846	V	1107	-------	6.8459e-08
10	8.570		6184	B	1002	-------	6.1840e-08
11	8.872	PCB-1254-1	94415	B	11297	9e-15	0.1000
12	9.285		14124	V	2045	-------	1.4124e-07
13	9.486		99199	V	10264	-------	9.9199e-07
14	9.714		25694	V	3757	-------	2.5694e-07
15	10.159		3535	B	552	-------	3.5353e-08
16	10.352		28358	V	3743	-------	2.8358e-07

Result File : 999B013.RST, Printed On 5/13/94 12:00 PM

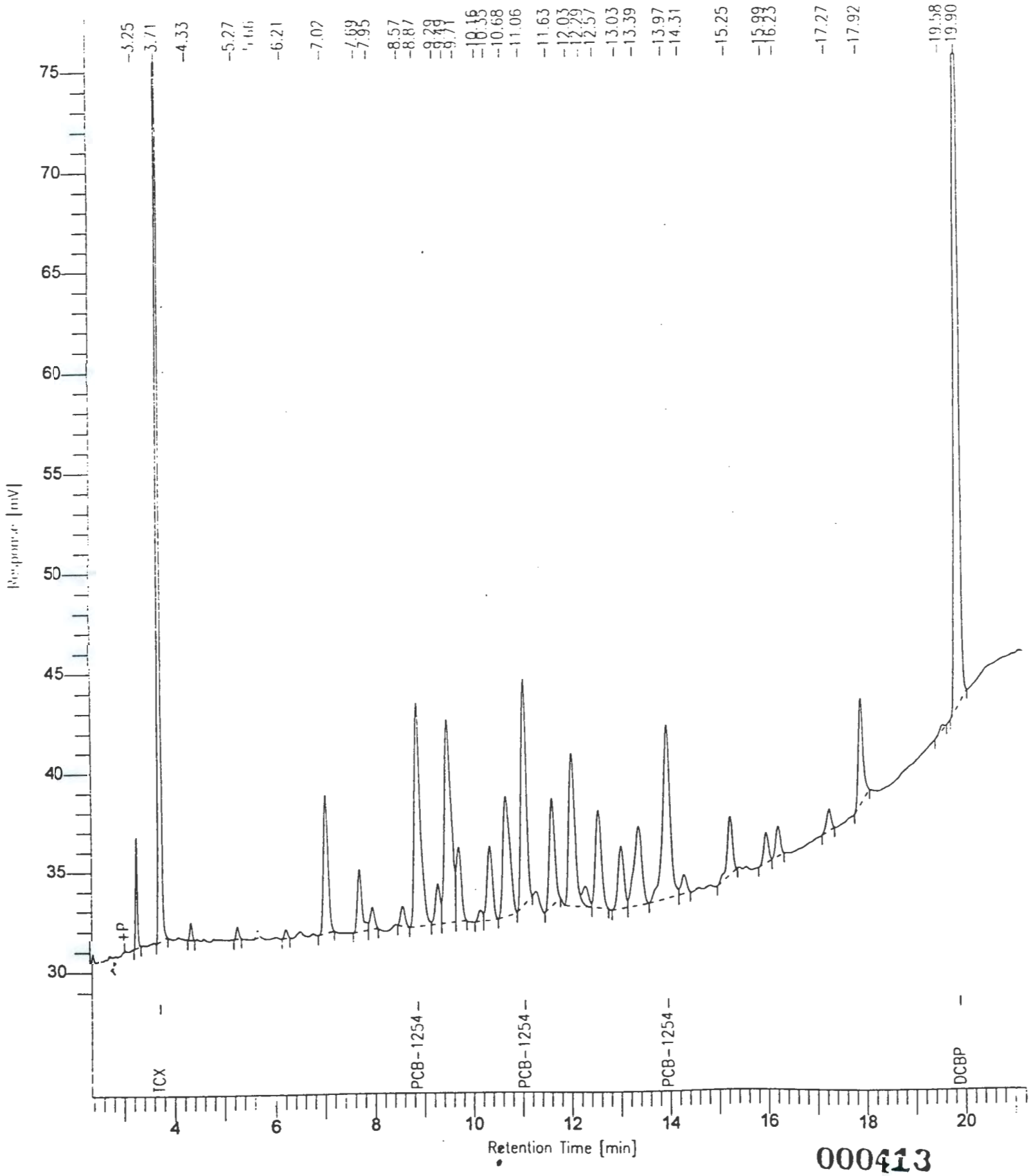
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
17	10.679		59537	B	6081	-------	5.9537e-07
18	11.055	PCB-1254-2	84802	B	11357	1e-15	0.1000
19	11.630		41628	B	5431	-------	4.1628e-07
20	12.031		66651	B	7743	-------	6.6651e-07
21	12.291		7816	E	971	-------	7.8165e-08
22	12.565		41610	V	4944	-------	4.1610e-07
23	13.027		26227	B	3149	-------	2.6227e-07
24	13.388		45242	V	3994	-------	4.5242e-07
25	13.972	PCB-1254-3	94347	B	8774	-9e-16	0.1000
26	14.312		7467	V	971	-------	7.4674e-08
27	15.249		22876	B	2962	-------	2.2876e-07
28	15.986		10408	B	1551	-------	1.0408e-07
29	16.230		9914	V	1531	-------	9.9135e-08
30	17.268		7471	B	1119	-------	7.4708e-08
31	17.916		34952	B	5300	-------	3.4952e-07
33	19.897	DCBP	277900	B	45442	-6e-15	0.0200
			1389312		231042		0.3400

9513355.1507

Chromatogram

Sample Name : ICV*AR1254*1
FileName : C:\TC4\HP58909\999B013.RAW
Method :
Start Time : 2.35 min End Time : 21.21 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 5/13/94 12:00 PM
Time of Injection: 5/8/94 05:46 PM
Low Point : 28.50 mV High Point : 75.49 mV
Plot Scale: 47.0 mV



000413

Software Version: 4.0<1C29>
Sample Name : ICV*TOXAPH*1 Time : 5/13/94 12:01 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 06:25 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B014.RAW
Result File : C:\TC4\HP58909\999B014.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B014.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B014.RST
Calib Method : C:\TC4\HP58909\999BTOX from C:\TC4\HP58909\999B014.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 54

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	3.246		16686	B	6488	-------	1.6686e-07
2	3.712	TCX	190568	B	68954	-4e-15	0.0200
9	7.585		3603	B	664	-------	3.6033e-08
10	7.824		3724	B	546	-------	3.7242e-08
12	8.433		19961	B	2816	-------	1.9961e-07
13	9.050		13951	B	1718	-------	1.3951e-07
14	9.236		14186	V	1653	-------	1.4186e-07
15	9.554		28223	V	3032	-------	2.8223e-07
16	9.988		21108	B	1859	-------	2.1108e-07
17	10.384		10085	B	1587	-------	1.0085e-07
18	11.001		39113	B	3354	-------	3.9113e-07
19	11.387		21476	B	2281	-------	2.1476e-07

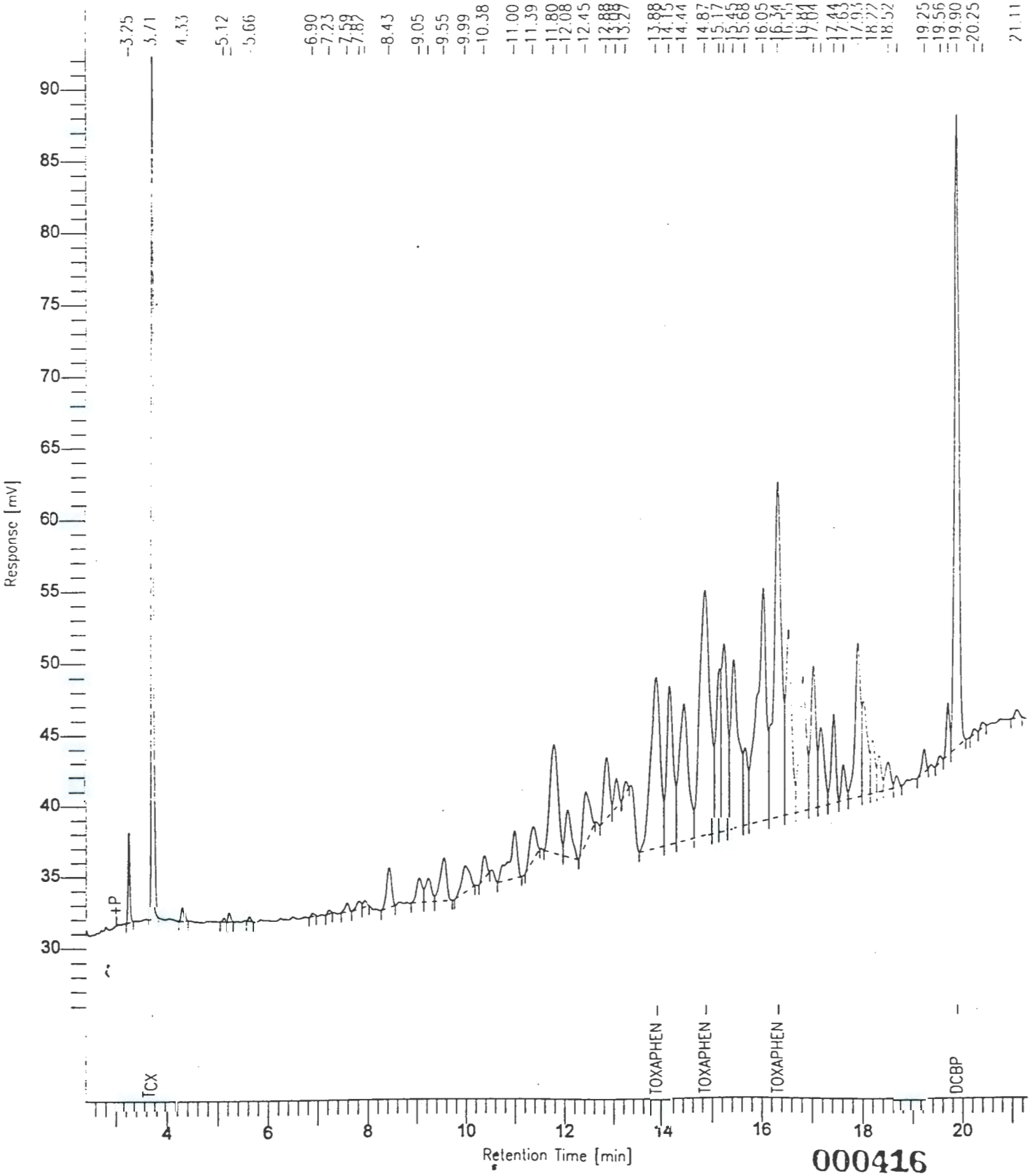
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
20	11.801		87681	B	7672	-------	8.7681e-07
21	12.076		29550	V	3322	-------	2.9550e-07
22	12.447		35616	B	3599	-------	3.5616e-07
23	12.876		34311	B	4325	-------	3.4311e-07
24	13.075		12667	V	2005	-------	1.2667e-07
25	13.269		4438	B	836	-------	4.4385e-08
26	13.882	TOXAPHENE-1	161417	B	11964	3e-15	0.5000
27	14.152		104511	V	11128	-------	1.0451e-06
28	14.443		125366	V	9641	-------	1.2537e-06
29	14.873	TOXAPHENE-2	253506	V	17141	-8e-16	0.5000
30	15.165		75821	V	11379	-------	7.5821e-07
31	15.258		106283	V	13054	-------	1.0628e-06
32	15.449		130270	V	11783	-------	1.3027e-06
33	15.679		34144	V	5480	-------	3.4144e-07
34	16.049		217737	V	16250	-------	2.1774e-06
35	16.341	TOXAPHENE-3	244808	V	23366	3e-15	0.5000
36	16.554		103113	V	12907	-------	1.0311e-06
37	16.837		85865	V	9359	-------	8.5865e-07
38	17.041		72920	V	9928	-------	7.2920e-07
39	17.187		43114	V	5524	-------	4.3114e-07
40	17.444		38614	V	6228	-------	3.8614e-07
41	17.634		15031	V	2571	-------	1.5031e-07
42	17.925		83753	V	10719	-------	8.3753e-07
43	18.033		48854	V	6558	-------	4.8854e-07
44	18.217		22106	V	3716	-------	2.2106e-07
45	18.344		14512	V	2537	-------	1.4512e-07
46	18.522		14857	V	1950	-------	1.4857e-07
47	18.691		4244	V	825	-------	4.2442e-08
48	19.245		8544	B	1603	-------	8.5435e-08
50	19.722		17032	B	3616	-------	1.7032e-07
51	19.897	DCBP	272180	V	44313	-7e-15	0.0200
54	21.112		3704	B	596	-------	3.7038e-08
			2889252		370847		1.5400

9513355.1510

Chromatogram

Sample Name : ICV*TOXAPH*1
FileName : C:\TC4\HP58909\999B014.RAW
Method :
Start Time : 2.40 min End Time : 21.31 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #:
Date : 5/13/94 12:01 PM
Time of Injection: 5/8/94 06:25 PM
Low Point : 25.93 mV High Point : 92.30 mV
Plot Scale: 66.4 mV



000416

Software Version: 4.0<1C29>
Sample Name : ICV*INDAL*1 Time : 5/13/94 12:02 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 07:04 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B015.RAW
Result File : C:\TC4\HP58909\999B015.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B015.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B015.RST
Calib Method : C:\TC4\HP58909\999BAL from C:\TC4\HP58909\999B015.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 16

DATA REPORT

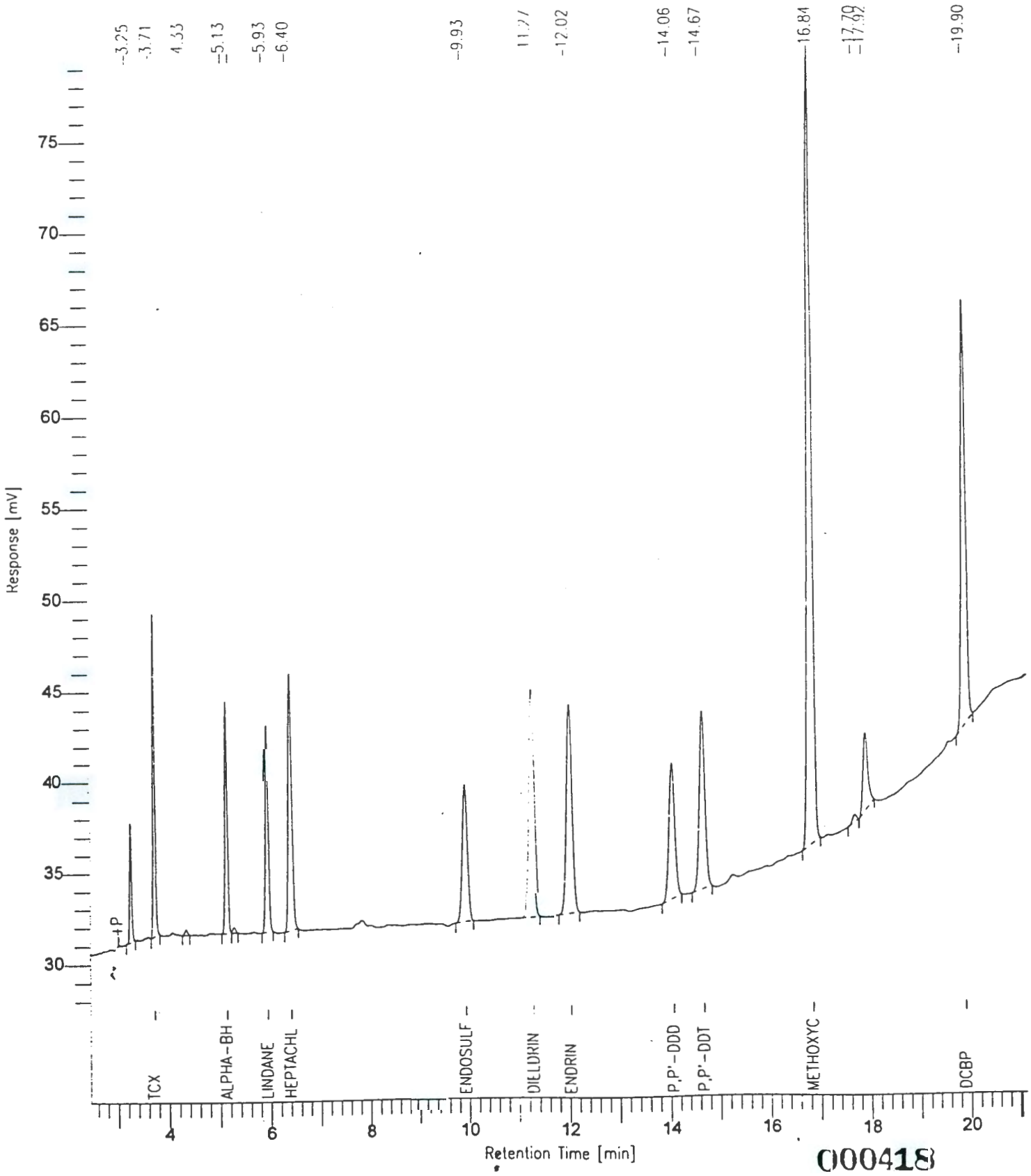
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.711	TCX	48635	B	17923	-0.0563	0.0050
4	5.125	ALPHA-BHC	42910	B	12775	-0.1246	0.0050
6	5.931	LINDANE	45298	B	11471	-0.1299	0.0050
7	6.397	HEPTACHLOR	70207	B	14208	-0.1025	0.0050
8	9.927	ENDOSULFAN A	54270	B	7606	-0.1016	0.0050
9	11.273	DIELDRIN	96251	B	12538	-0.1088	0.0100
10	12.020	ENDRIN	92796	B	11546	-0.0996	0.0100
11	14.059	P,P'-DDD	61358	B	7507	-0.0956	0.0100
12	14.671	P,P'-DDT	76460	B	9817	-0.0834	0.0100
13	16.840	METHOXYCHLOR	285012	B	43301	-0.0658	0.0500
16	19.895	DCBP	141832	B	23179	-0.0376	0.0100

9513355.1612

Chromatogram

Sample Name : ICV*INDAL*1
FileName : C:\TC4\HP58909\999B015.RAW
Method :
Start Time : 2.45 min End Time : 21.11 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 5/13/94 12:02 PM
Time of Injection: 5/8/94 07:04 PM
Low Point : 27.59 mV High Point : 79.24 mV
Plot Scale: 51.7 mV



000418

Software Version: 4.0<1C29>
Sample Name : ICV*INDBL*1 Time : 5/13/94 12:03 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 07:43 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B016.RAW
Result File : C:\TC4\HP58909\999B016.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B016.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B016.RST
Calib Method : C:\TC4\HP58909\999BBL from C:\TC4\HP58909\999B016.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 18

DATA REPORT

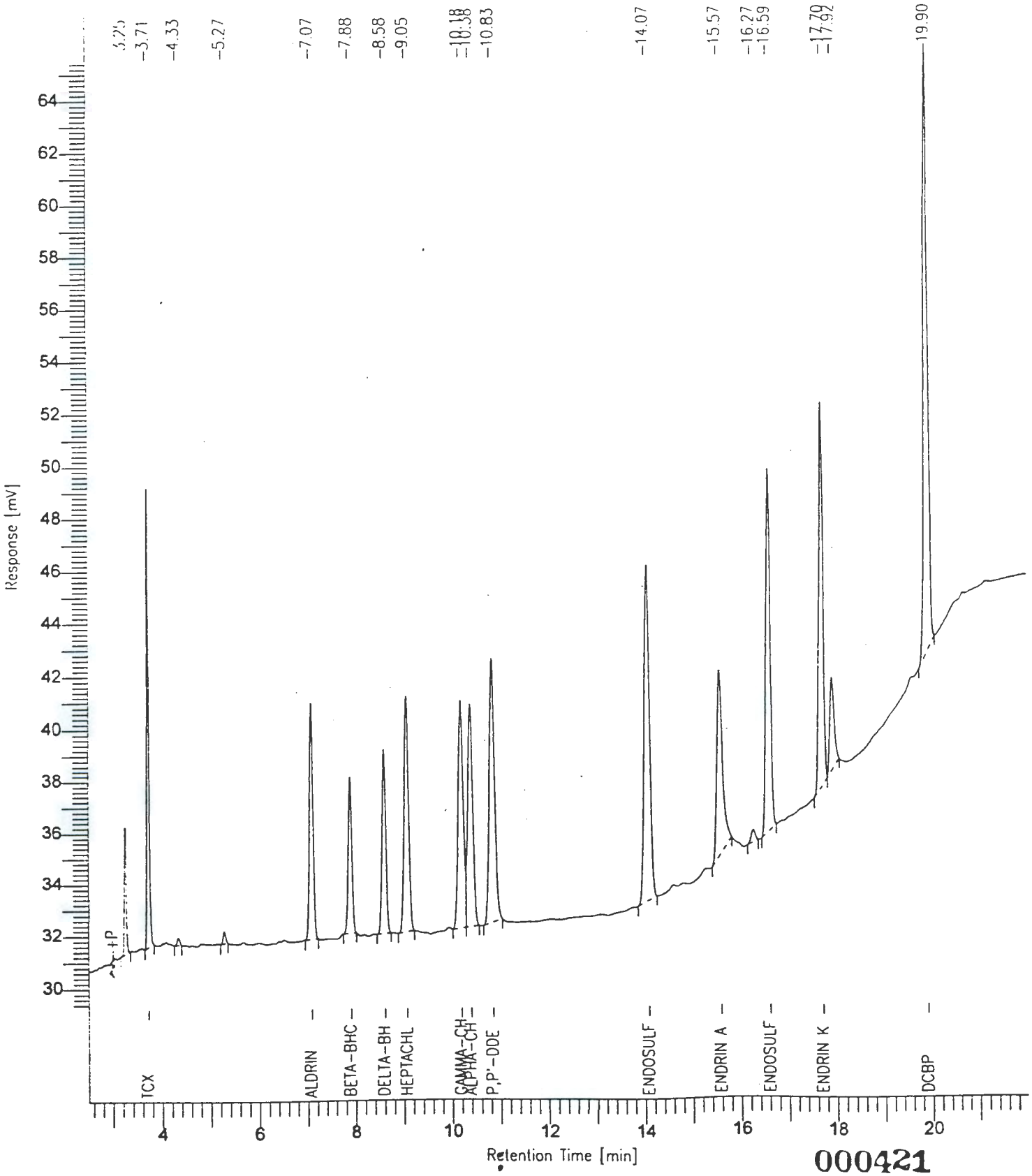
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.711	TCX	47559	B	17796	-0.0571	0.0050
5	7.070	ALDRIN	47037	B	9159	-0.0973	0.0050
6	7.882	BETA-BHC	31388	B	6079	-0.1787	0.0050
7	8.584	DELTA-BHC	38758	B	7120	-0.1642	0.0050
8	9.052	HEPTACHLOR EPOXIDE	58642	B	9090	-0.1076	0.0050
9	10.180	GAMMA-CHLORDANE	63963	B	8785	-0.1135	0.0050
10	10.377	ALPHA-CHLORDANE	60978	V	8590	-0.1096	0.0050
11	10.827	P,P'-DDE	77704	B	10141	-0.0996	0.0100
12	14.072	ENDOSULFAN B	101152	B	12880	-0.1084	0.0100
13	15.571	ENDRIN ALDEHYDE	58322	B	7134	-0.1101	0.0100
15	16.593	ENDOSULFAN SULFATE	88239	B	13855	-0.0854	0.0100
16	17.701	ENDRIN KETONE	84633	B	14624	-0.0758	0.0100

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
18	19.897	DCBP	139984	B	23140	-0.0331	0.0100
			898358		148395		0.0950

9513355.1515 Chromatogram

Sample Name : ICV*INDBL*1
FileName : C:\TC4\HP58909\999B016.RAW
Method :
Start Time : 2.50 min End Time : 21.99 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/13/94 12:03 PM
Time of Injection: 5/8/94 07:43 PM
Low Point : 29.25 mV High Point : 65.54 mV
Plot Scale: 36.3 mV



000421

Software Version: 4.0<1C29>
Sample Name : ICV*INDAM*1 Time : 5/14/94 03:40 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 08:22 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B017.RAW
Result File : C:\TC4\HP58909\999B017.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B017.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B017.RST
Calib Method : C:\TC4\HP58909\999BAM from C:\TC4\HP58909\999B017.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 20

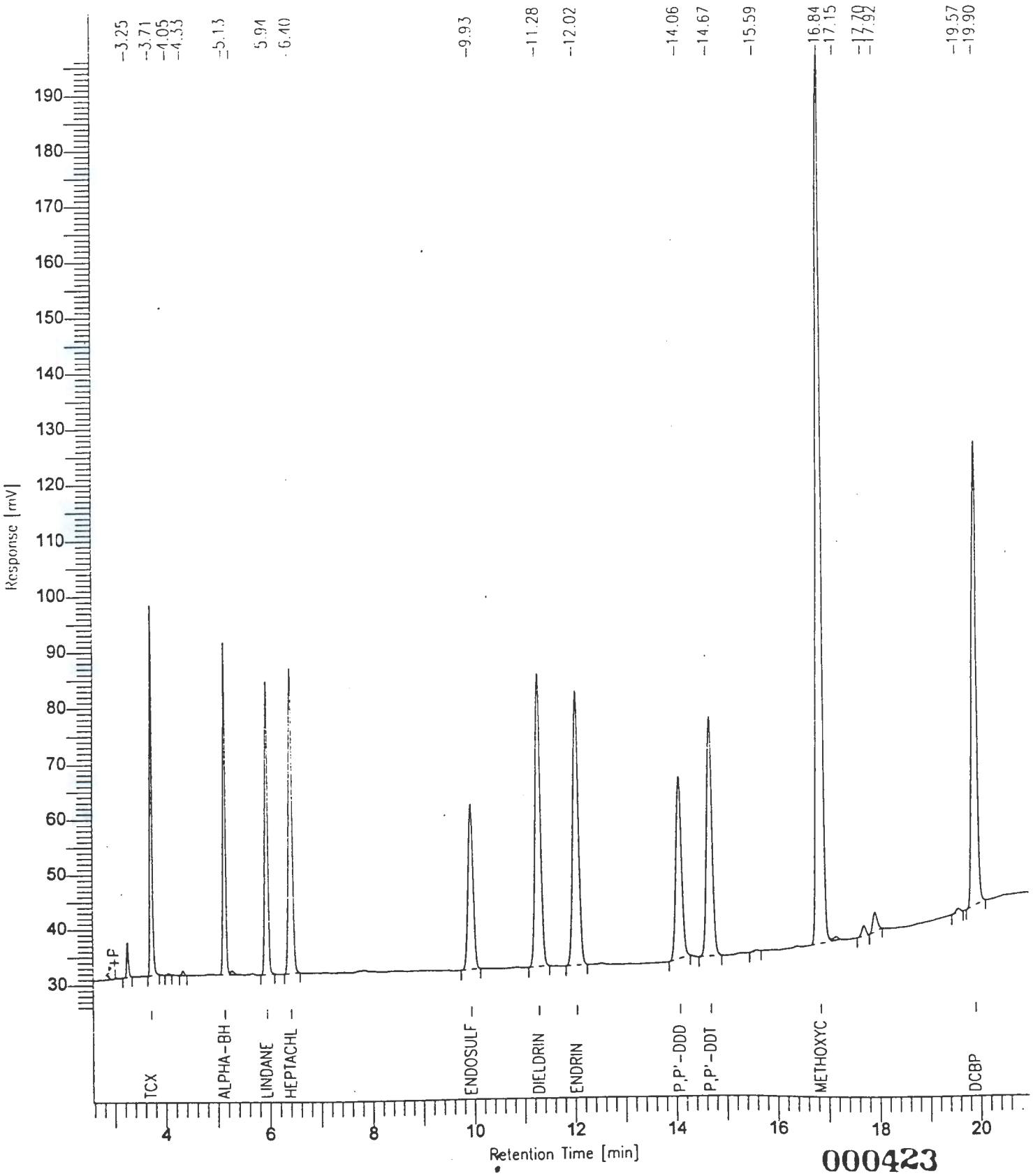
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.712	TCX	187618	B	68495	-0.0489	0.0200
5	5.129	ALPHA-BHC	196745	B	60843	-0.1062	0.0200
7	5.935	LINDANE	200735	B	52871	-0.1196	0.0200
8	6.400	HEPTACHLOR	264589	B	54987	-0.0893	0.0200
9	9.931	ENDOSULFAN A	206308	B	29992	-0.0855	0.0200
10	11.278	DIELDRIN	388330	B	53091	-0.0930	0.0400
11	12.024	ENDRIN	373501	B	49634	-0.0953	0.0400
12	14.064	P,P'-DDD	256568	B	33218	-0.0903	0.0400
13	14.674	P,P'-DDT	322182	B	43412	-0.0814	0.0400
15	16.843	METHOXYCHLOR	1105362	B	167125	-0.0584	0.2000
20	19.899	DCBP	522011	B	83572	-0.0259	0.0400

9513355.1517 Chromatogram

Sample Name : ICV*INDAM*1
FileName : C:\TC4\HP58909\999B017.RAW
Method :
Start Time : 2.57 min End Time : 20.93 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #:
Date : 5/14/94 03:40 PM
Time of Injection: 5/8/94 08:22 PM
Low Point : 25.70 mV High Point : 196.28 mV
Plot Scale: 170.6 mV



000423

9513355.1518

Software Version: 4.0<1C29>
Sample Name : ICV*INDBM*1 Time : 5/14/94 03:40 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 09:01 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B018.RAW
Result File : C:\TC4\HP58909\999B018.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B018.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B018.RST
Calib Method : C:\TC4\HP58909\999BBM from C:\TC4\HP58909\999B018.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 23

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.712	TCX	187838	B	67237	-0.0518	0.0200
7	7.073	ALDRIN	193004	B	37530	-0.0868	0.0200
8	7.886	BETA-BHC	126014	B	23923	-0.1648	0.0200
9	8.588	DELTA-BHC	169307	B	31710	-0.1466	0.0200
10	9.054	HEPTACHLOR EPOXIDE	225097	B	34475	-0.1049	0.0200
12	10.183	GAMMA-CHLORDANE	244002	V	32795	-0.1026	0.0200
13	10.380	ALPHA-CHLORDANE	238041	V	32758	-0.1017	0.0200
14	10.831	P,P'-DDE	326330	B	42962	-0.0838	0.0400
15	14.075	ENDOSULFAN B	397960	B	50581	-0.1010	0.0400
16	15.574	ENDRIN ALDEHYDE	292394	B	28405	-0.0996	0.0400
18	16.595	ENDOSULFAN SULFATE	352184	B	54825	-0.0853	0.0400
19	17.704	ENDRIN KETONE	374462	B	62277	-0.0739	0.0400

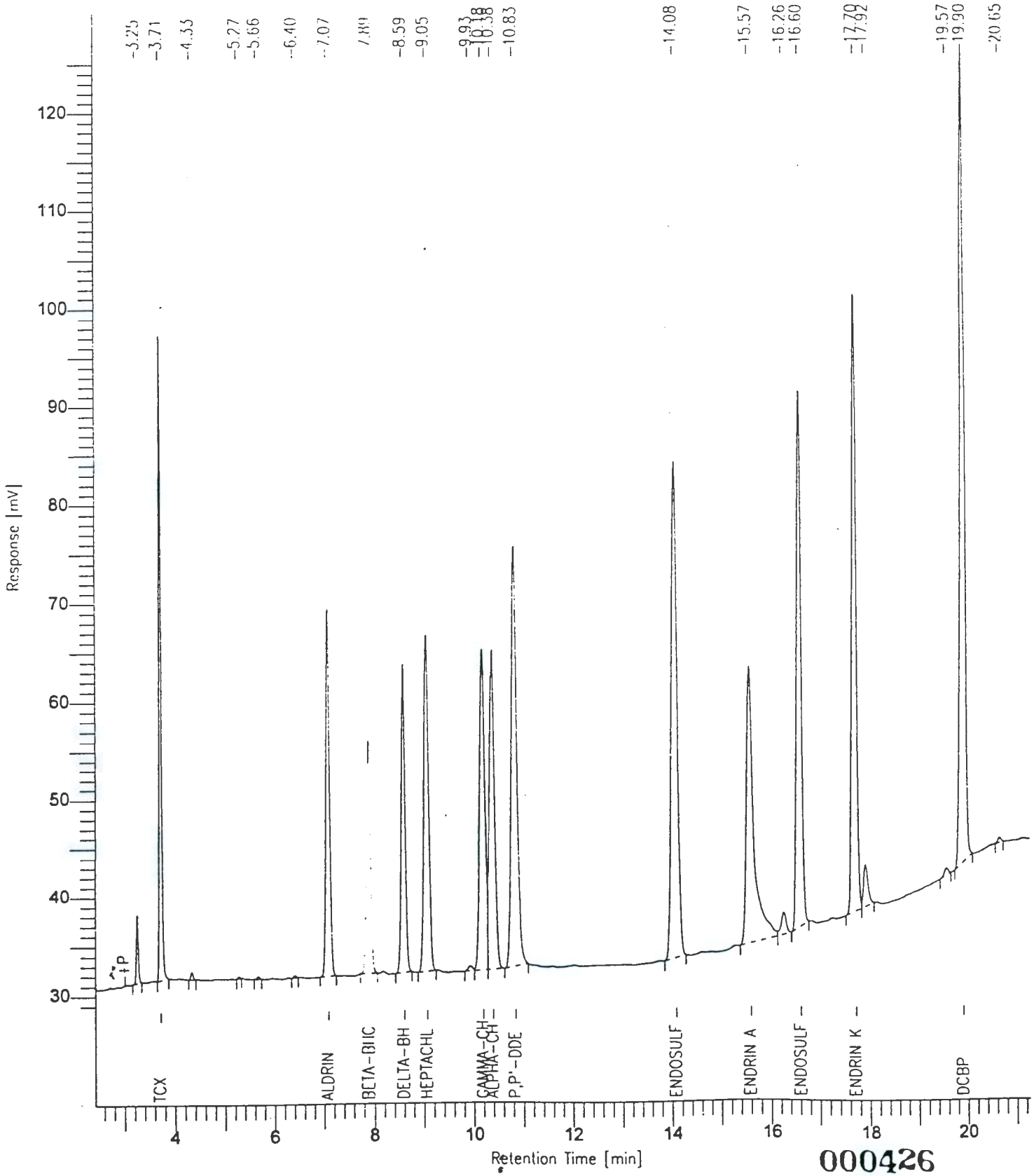
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
22	19.898	DCBP	524546	B	82561	-0.0301	0.0400
			3651178		583037		0.3800

9513355.1520

Chromatogram

Sample Name : ICV*INDBM*1
FileName : C:\TC4\HP58909\999B018.RAW
Method :
Start Time : 2.42 min End Time : 21.27 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 5/14/94 03:40 PM
Time of Injection: 5/8/94 09:01 PM
Low Point : 28.45 mV High Point : 125.40 mV
Plot Scale: 97.0 mV



000426

9513355.1521

Software Version: 4.0<1C29>
Sample Name : ICV*INDAH*1 Time : 5/13/94 12:04 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 09:39 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B019.RAW
Result File : C:\TC4\HP58909\999B019.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B019.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B019.RST
Calib Method : C:\TC4\HP58909\999BAH from C:\TC4\HP58909\999B019.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 27

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.713	TCX	748262	B	255189	-0.0414	0.0800
6	5.131	ALPHA-BHC	1014234	B	292883	-0.0914	0.0800
9	5.937	LINDANE	988145	B	245406	-0.1073	0.0800
10	6.401	HEPTACHLOR	1087800	B	223949	-0.0711	0.0800
12	9.933	ENDOSULFAN A	859916	B	125092	-0.0829	0.0800
14	11.280	DIELDRIN	1783170	B	244496	-0.0937	0.1600
15	12.028	ENDRIN	1700302	B	223722	-0.0934	0.1600
17	14.065	P,P'-DDD	1290131	B	165873	-0.1036	0.1600
18	14.678	P,P'-DDT	1525857	B	206022	-0.0779	0.1600
21	16.844	METHOXYCHLOR	4014530	B	578563	-0.0607	0.8000
27	19.898	DCBP	1871442	B	286882	-0.0299	0.1600

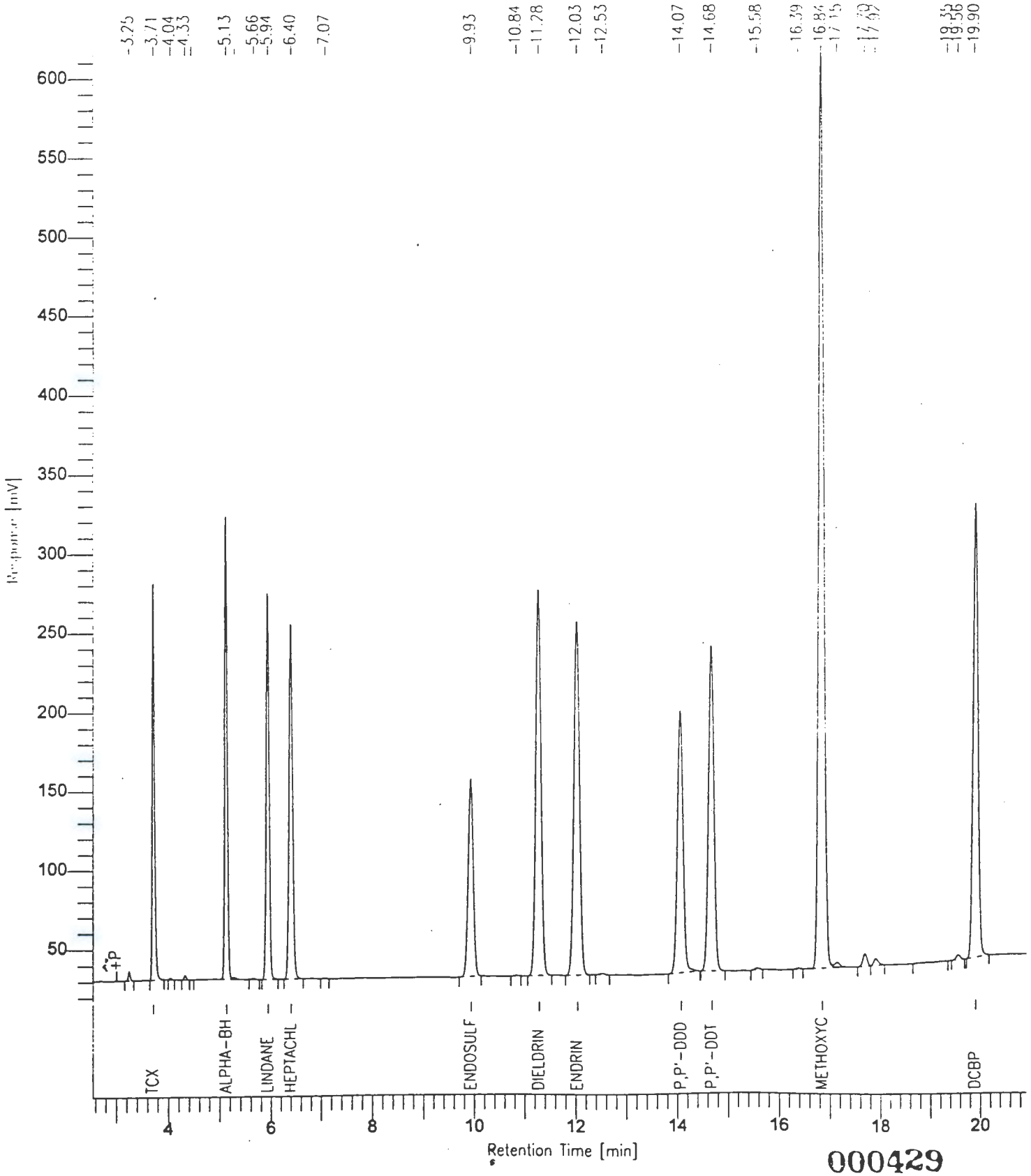
16883789 2848077 2.0000

9513355.1523

Chromatogram

Sample Name : ICV*INDAH*1
FileName : C:\TC4\HP58909\999B019.RAW
Method :
Start Time : 2.55 min End Time : 20.92 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/13/94 12:04 PM
Time of Injection: 5/8/94 09:39 PM
Low Point : 16.80 mV High Point : 614.32 mV
Plot Scale: 597.5 mV



000429

9513355.1524

Software Version: 4.0<1C29>
Sample Name : ICV*INDBH*1 Time : 5/13/94 12:04 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 10:18 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B020.RAW
Result File : C:\TC4\HP58909\999B020.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B020.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B020.RST
Calib Method : C:\TC4\HP58909\999BBH from C:\TC4\HP58909\999B020.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 33

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.712	TCX	748959	B	255697	-0.0526	0.0800
11	7.077	ALDRIN	888270	B	175091	-0.0804	0.0800
12	7.889	BETA-BHC	519294	B	96379	-0.1597	0.0800
14	8.592	DELTA-BHC	874969	B	164424	-0.1476	0.0800
15	9.057	HEPTACHLOR EPOXIDE	928518	B	144402	-0.1052	0.0800
18	10.186	GAMMA-CHLORDANE	967321	V	134790	-0.1039	0.0800
19	10.383	ALPHA-CHLORDANE	975490	V	134910	-0.0979	0.0800
20	10.834	P,P'-DDE	1580142	B	213874	-0.0855	0.1600
23	14.078	ENDOSULFAN B	1656071	B	210661	-0.1005	0.1600
25	15.577	ENDRIN ALDEHYDE	1131743	V	110605	-0.0972	0.1600
27	16.598	ENDOSULFAN SULFATE	1466929	B	224495	-0.0808	0.1600
29	17.706	ENDRIN KETONE	1634222	B	269082	-0.0710	0.1600

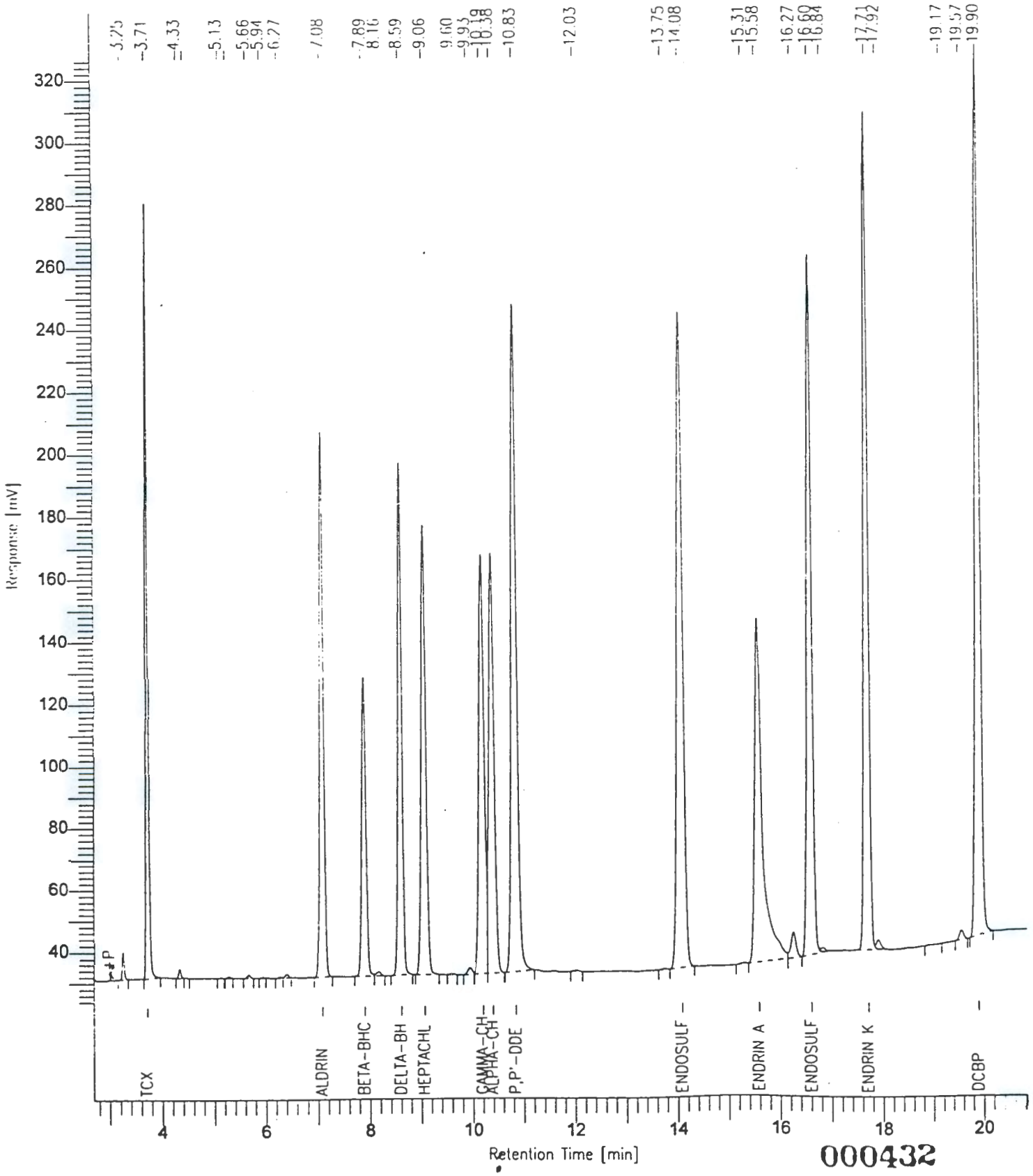
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
33	19.899	DCBP	1859745	B	283232	-0.0302	0.1600
			15231671		2417643		1.5200

9513355.1526

Chromatogram

Sample Name : ICV*INDBH*1
FileName : C:\TC4\HP58909\999B020.RAW
Method :
Start Time : 2.69 min End Time : 20.82 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #:
Date : 5/13/94 12:04 PM
Time of Injection: 5/8/94 10:18 PM
Low Point : 22.62 mV High Point : 326.43 mV
Plot Scale: 303.8 mV



000432

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*1 Time : 5/13/94 12:22 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 10:57 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B021.RAW
Result File : C:\TC4\HP58909\999B021.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B021.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B021.RST
Calib Method : C:\TC4\HP58909\999B from C:\TC4\HP58909\999B021.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 9857.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 8

DATA REPORT

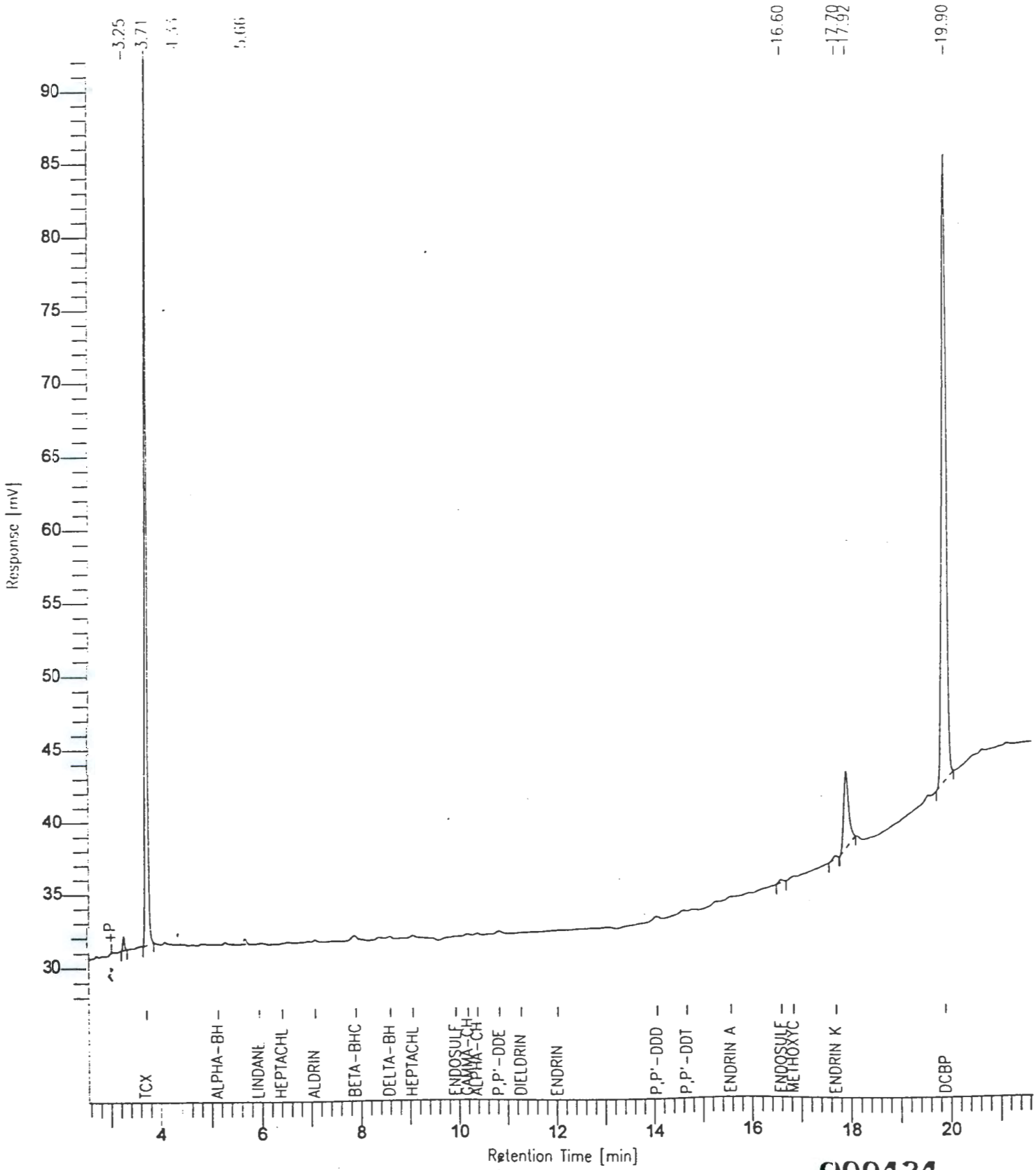
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.712	TCX	183666	B	66831	0.0025
7	17.920		37536	B	5373	-------
8	19.898	DCBP	265009	B	42960	-0.0065
			486211		115164	

9513355.1528

Chromatogram

Sample Name : MB*PIBLK*1
FileName : C:\TC4\HP58909\999B021.RAW
Method :
Start Time : 2.55 min End Time : 21.65 min
Scale Factor: 0.0 Plot Offset: 27 mV

Sample #:
Date : 5/13/94 12:22 PM
Time of Injection: 5/8/94 10:57 PM
Low Point : 27.24 mV High Point : 92.20 mV
Plot Scale: 65.0 mV



000434

9513355.1529

Software Version: 4.0<1C29>
Sample Name : CK*PEM*2 Time : 5/13/94 12:23 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/8/94 11:36 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B022.RAW
Result File : C:\TC4\HP58909\999B022.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B022.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B022.RST
Calib Method : C:\TC4\HP58909\999BPEM from C:\TC4\HP58909\999B022.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 20

DATA REPORT

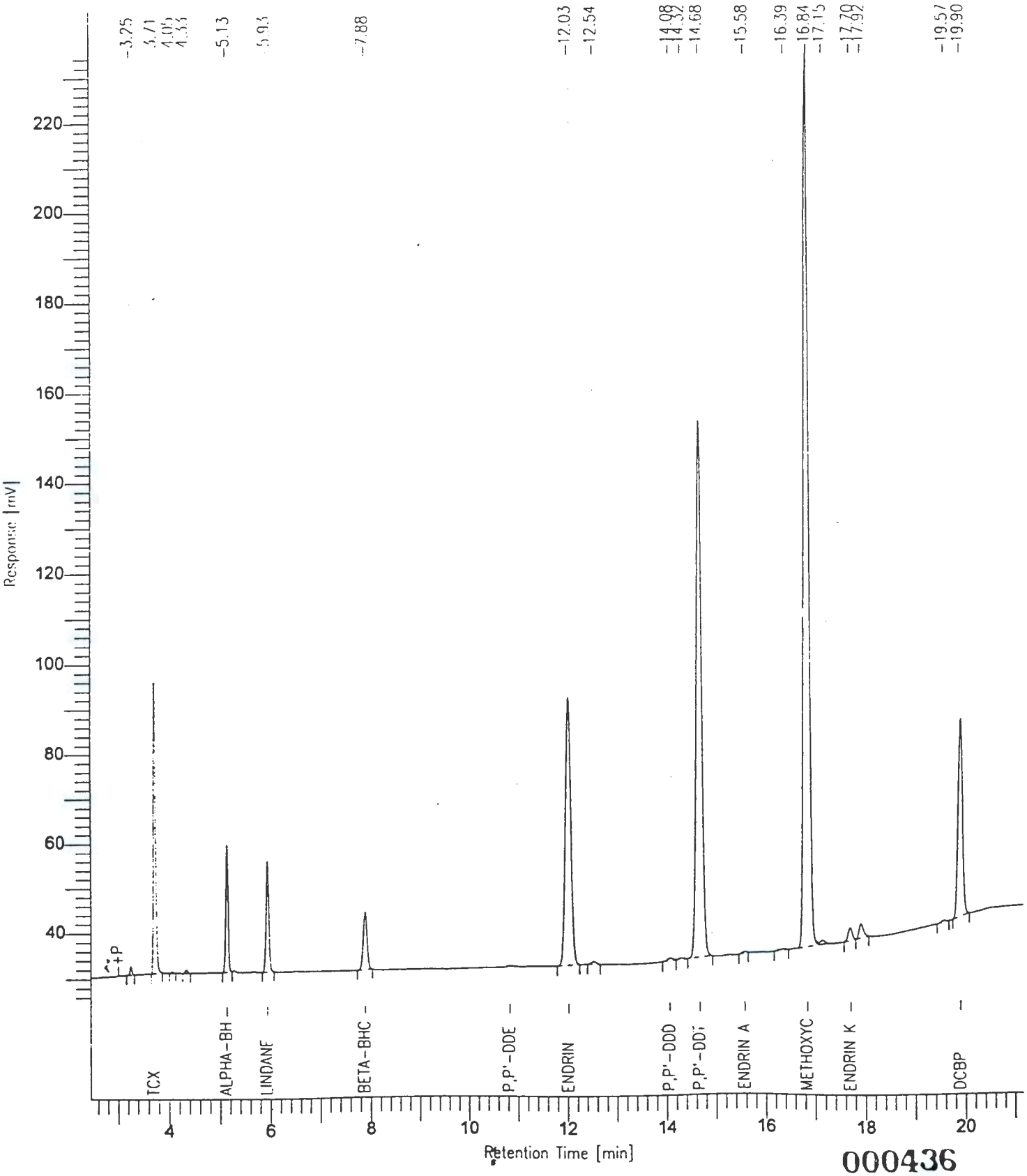
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.712	TCX	183046	B	66623	0.0133
5	5.127	ALPHA-BHC	90452	B	28132	-0.0412
6	5.933	LINDANE	93462	B	24341	-0.0328
7	7.884	BETA-BHC	66418	B	12715	-0.0251
8	12.026	ENDRIN	450888	B	59533	0.0138
10	14.081	P,P'-DDD	5055	B	601	0.1205
12	14.678	P,P'-DDT	879664	V	119273	0.0265
13	15.583	ENDRIN ALDEHYDE	1986	B	326	0.0561
15	16.844	METHOXYCHLOR	1339352	B	198492	0.0085
17	17.700	ENDRIN KETONE	17000	B	2968	-0.0205
20	19.897	DCBP	271368	B	44273	-0.0097

9513355.1530

Chromatogram

Sample Name : CK*PEM*2
FileName : C:\TC4\HP58909\999B022.RAW
Method :
Start Time : 2.45 min End Time : 21.16 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #:
Date : 5/13/94 12:23 PM
Time of Injection: 5/8/94 11:36 PM
Low Point : 24.20 mV High Point : 234.23 mV
Plot Scale: 210.0 mV



000436

Software Version: 4.0<1C29>
Sample Name : HEXANE
Sample Number:
Operator : VIC

Time : 5/13/94 12:51 PM
Study :

Instrument : HP58909
AutoSampler :
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 06:06 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B032.RAW
Result File : C:\TC4\HP58909\999B032.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B032.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B032.RST
Calib Method : C:\TC4\HP58909\999B from C:\TC4\HP58909\999B032.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 9857.000000
Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 3

DATA REPORT

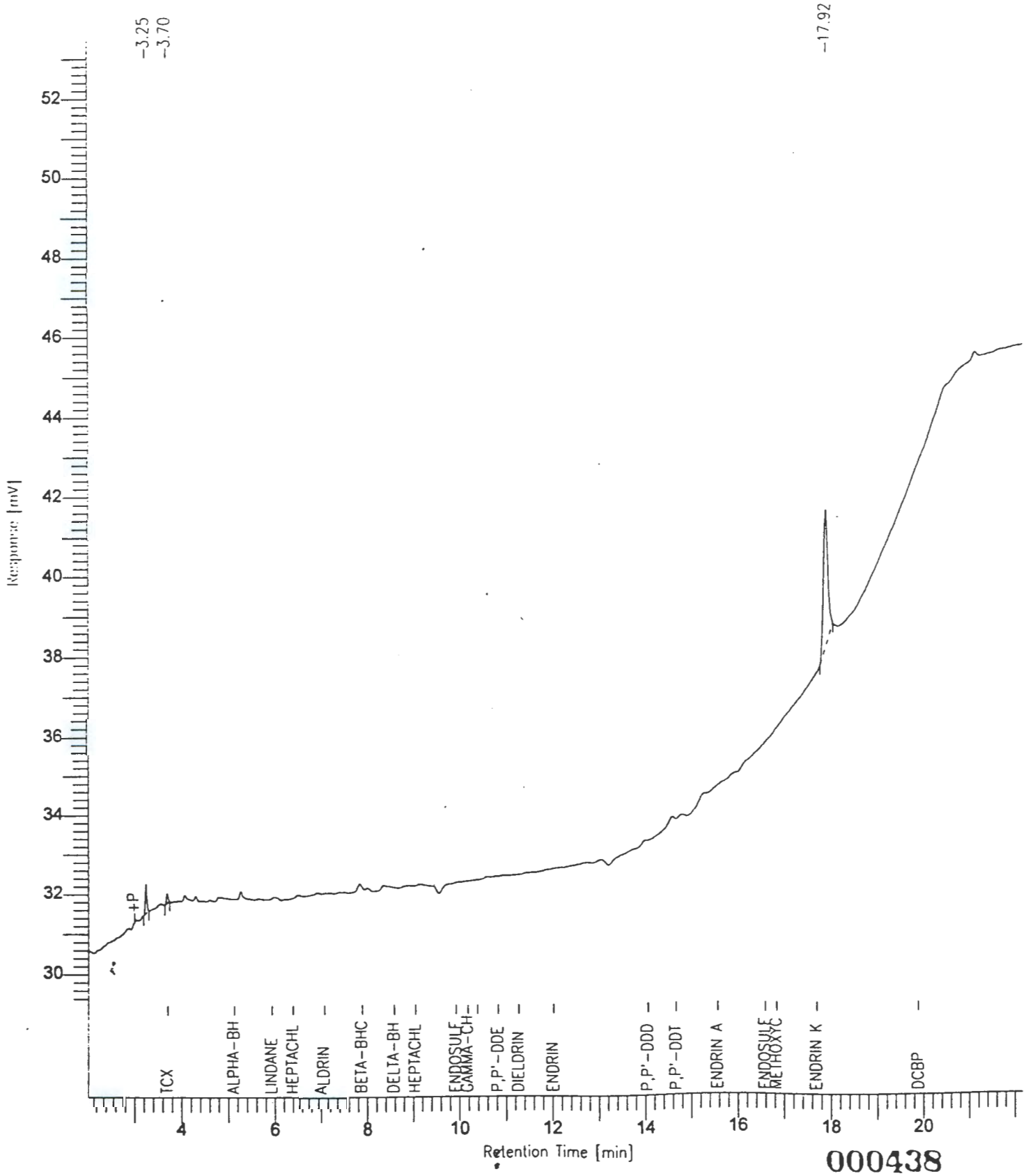
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
3	17.918		22597	B	3435	-------
			22597		3435	

9513355.1552

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\999B032.RAW
Method :
Start Time : 2.03 min End Time : 22.18 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/13/94 12:51 PM
Time of Injection: 5/9/94 06:06 AM
Low Point : 29.25 mV High Point : 53.00 mV
Plot Scale: 23.7 mV



Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*2 Time : 5/13/94 12:51 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 06:44 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B033.RAW
Result File : C:\TC4\HP58909\999B033.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B033.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B033.RST
Calib Method : C:\TC4\HP58909\999B from C:\TC4\HP58909\999B033.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 9857.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 8

DATA REPORT

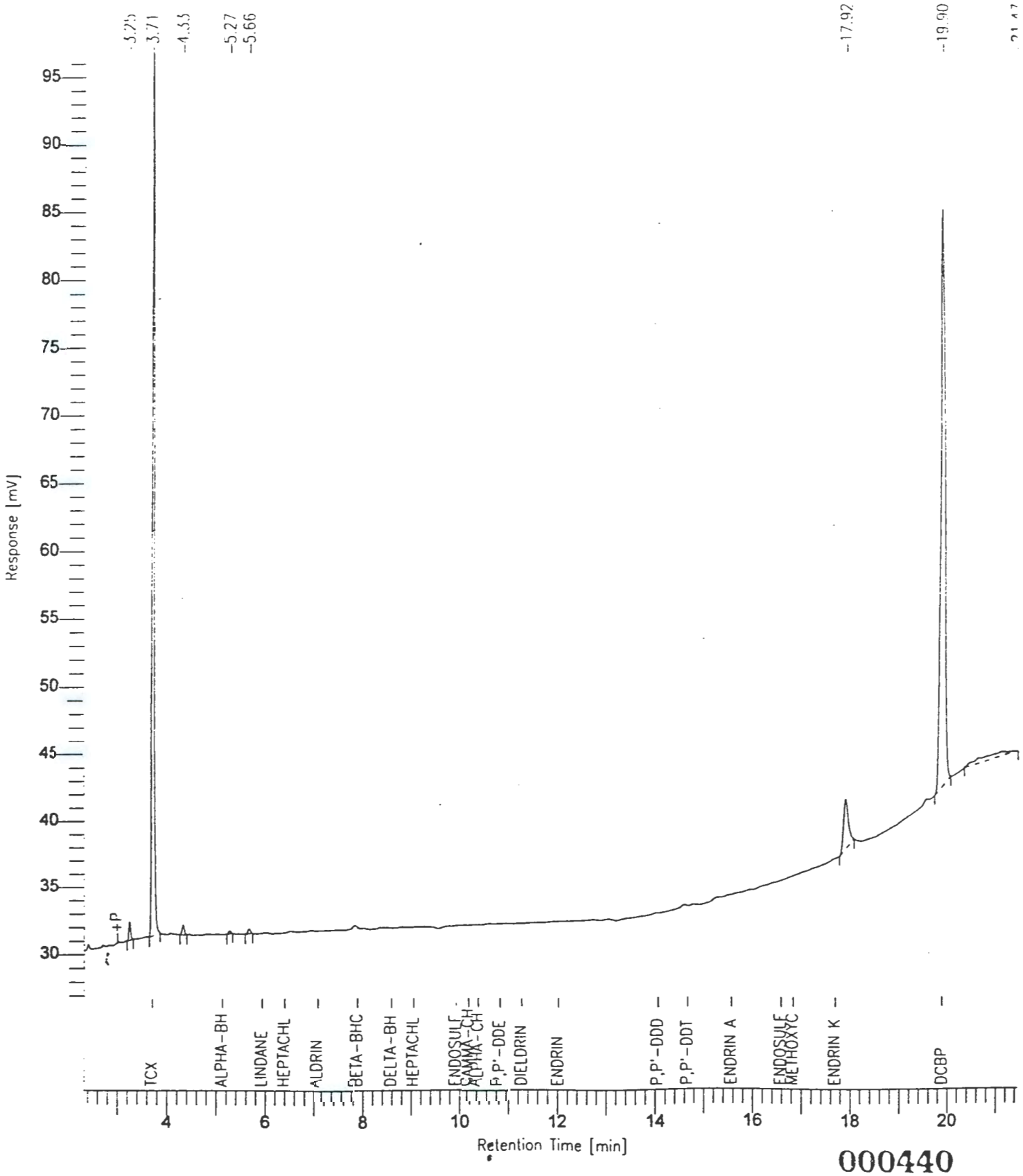
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.714	TCX	182645	B	66207	0.0411
6	17.922		26106	B	3760	-------
7	19.899	DCBP	262451	B	42661	-0.0016
8	21.467		15416	B	-9e-13	-------
			486617		112628	

9513555.1534

Chromatogram

Sample Name : MB*PIBLK*2
FileName : C:\TC4\HP58909\999B033.RAW
Method :
Start Time : 2.33 min End Time : 21.47 min
Scale Factor: 0.0 Plot Offset: 27 mV

Sample #:
Date : 5/13/94 12:51 PM
Time of Injection: 5/9/94 06:44 AM
Low Point : 26.87 mV High Point : 96.69 mV
Plot Scale: 69.8 mV



000440

9513355.1535

Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*2 Time : 5/13/94 01:11 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 07:23 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B034.RAW
Result File : C:\TC4\HP58909\999B034.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B034.RST
Proc Method : C:\TC4\HP58909\999BAM.MTH
Calib Method : C:\TC4\HP58909\999BAM.MTH
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

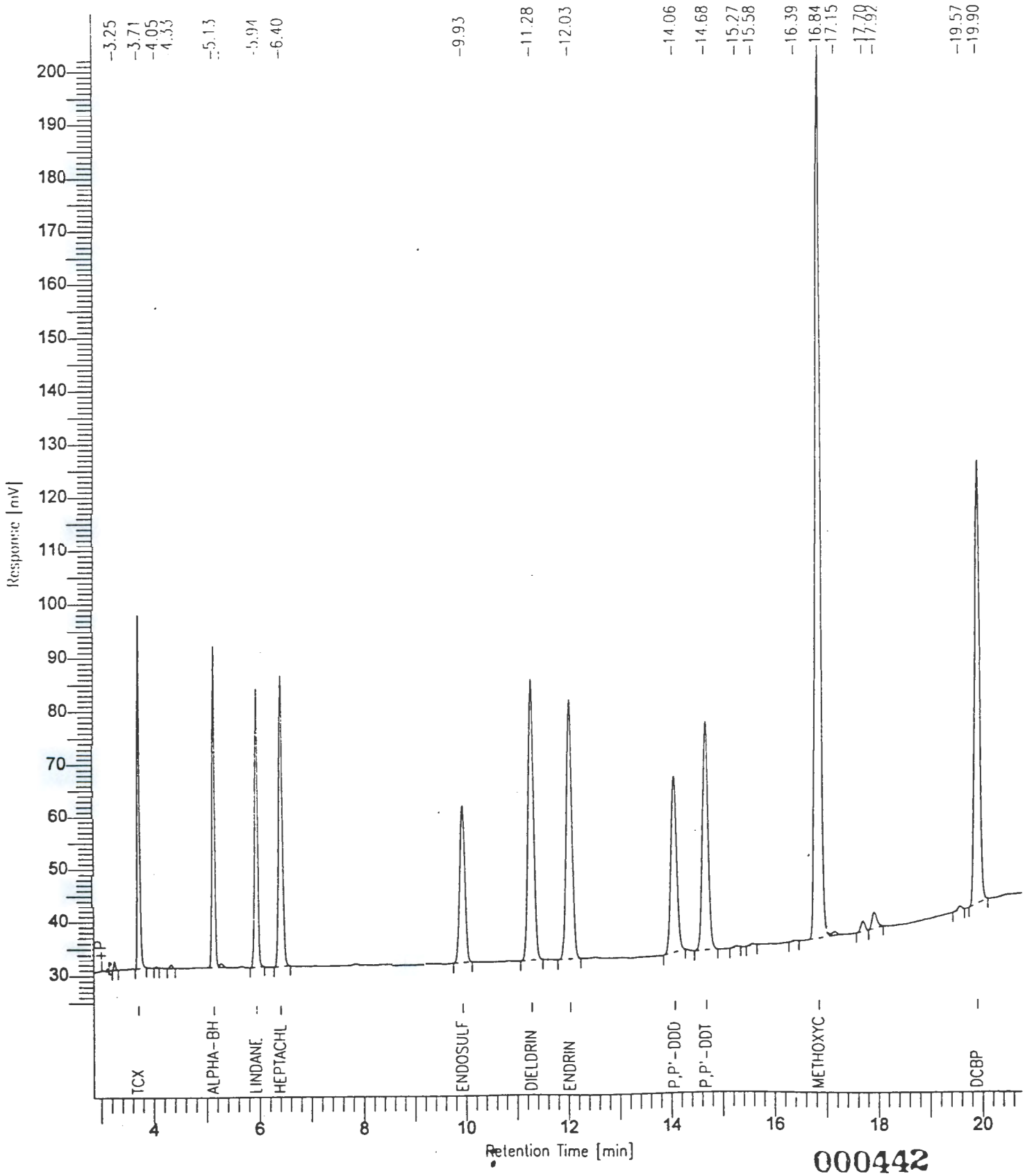
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	3.712	TCX	187409	B	68461	-0.0460	0.0200
5	5.128	ALPHA-BHC	197204	B	61332	-0.1129	0.0200
7	5.935	LINDANE	200916	B	52646	-0.1220	0.0200
8	6.400	HEPTACHLOR	264640	B	54907	-0.0893	0.0200
9	9.930	ENDOSULFAN A	206667	B	29702	-0.0913	0.0200
10	11.277	DIELDRIN	388748	B	53135	-0.0982	0.0400
11	12.025	ENDRIN	372734	B	49113	-0.0889	0.0400
12	14.063	P,P'-DDD	258154	B	33553	-0.0949	0.0400
13	14.675	P,P'-DDT	321836	B	43462	-0.0761	0.0400
17	16.843	METHOXYCHLOR	1112196	B	167518	-0.0576	0.2000
22	19.897	DCBP	521615	B	83497	-0.0308	0.0400

9513355.1536

Chromatogram

Sample Name : CCS*INDAM*2
FileName : C:\TC4\HP58909\999B034.RAW
Method : 999BAM.MTH
Start Time : 2.85 min End Time : 20.76 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #:
Date : 5/13/94 01:11 PM
Time of Injection: 5/9/94 07:23 AM
Low Point : 24.69 mV High Point : 202.08 mV
Plot Scale: 177.4 mV



000442

9513355.1537

Software Version: 4.0<1C29>
Sample Name : CCS*INDBM*2 Time : 5/13/94 01:13 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 08:02 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B035.RAW
Result File : C:\TC4\HP58909\GEDIT.RST
Inst Method : HP58909 from C:\TC4\HP58909\GEDIT.RST
Proc Method : C:\TC4\HP58909\999BBM.MTH
Calib Method : C:\TC4\HP58909\999BBM.MTH
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 22

DATA REPORT

Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
2	3.712	TCX	186733	B	68024	-0.0532	0.0200
7	7.072	ALDRIN	192766	B	38207	-0.0944	0.0200
8	7.884	BETA-BHC	126047	B	24291	-0.1793	0.0200
9	8.584	DELTA-BHC	169448	B	31873	-0.1704	0.0200
10	9.051	HEPTACHLOR EPOXIDE	226024	B	35022	-0.1219	0.0200
12	10.179	GAMMA-CHLORDANE	241511	V	33397	-0.1227	0.0200
13	10.376	ALPHA-CHLORDANE	242361	V	33350	-0.1203	0.0200
14	10.826	P,P'-DDE	328104	B	43471	-0.1053	0.0400
15	14.072	ENDOSULFAN B	399595	B	50990	-0.1138	0.0400
16	15.570	ENDRIN ALDEHYDE	293040	B	28666	-0.1113	0.0400
18	16.594	ENDOSULFAN SULFATE	354056	B	55744	-0.0900	0.0400
19	17.701	ENDRIN KETONE	375764	B	64524	-0.0826	0.0400

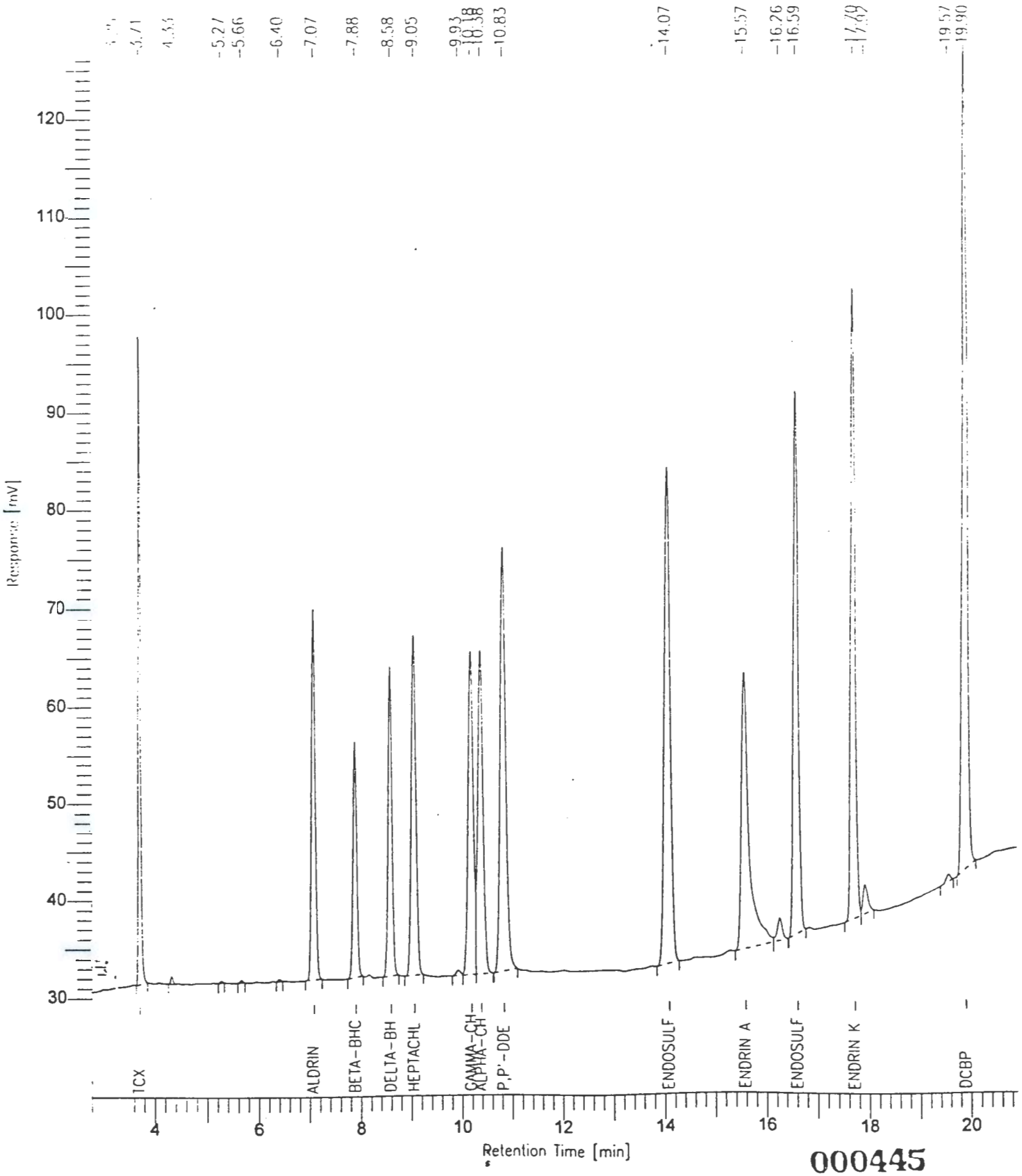
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
22	19.895	DCBP	526370	B	83795	-0.0381	0.0400
			3661819		591354		0.3800

9513355.1539

Chromatogram

Sample Name : CCS*INDBM*2
FileName : C:\TC4\HP58909\999B035.RAW
Method : 999BBM.MTH
Start Time : 2.80 min End Time : 20.90 min
Scale Factor: 0.0 Plot Offset: 29 mV

Sample #:
Date : 5/13/94 01:13 PM
Time of Injection: 5/9/94 08:02 AM
Low Point : 29.40 mV High Point : 126.21 mV
Plot Scale: 96.8 mV



000445

Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 5/18/94 09:13 AM
Sample Number:
Study :
Operator : VIC

Instrument : HP58909
Channel : B
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 5/9/94 12:25 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B041.RAW
Result File : C:\TC4\HP58909\999B041.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B041.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B041.RST
Calib Method : C:\TC4\HP58909\999B from C:\TC4\HP58909\999B041.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul
Area Reject : 9857.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 33
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 5

DATA REPORT

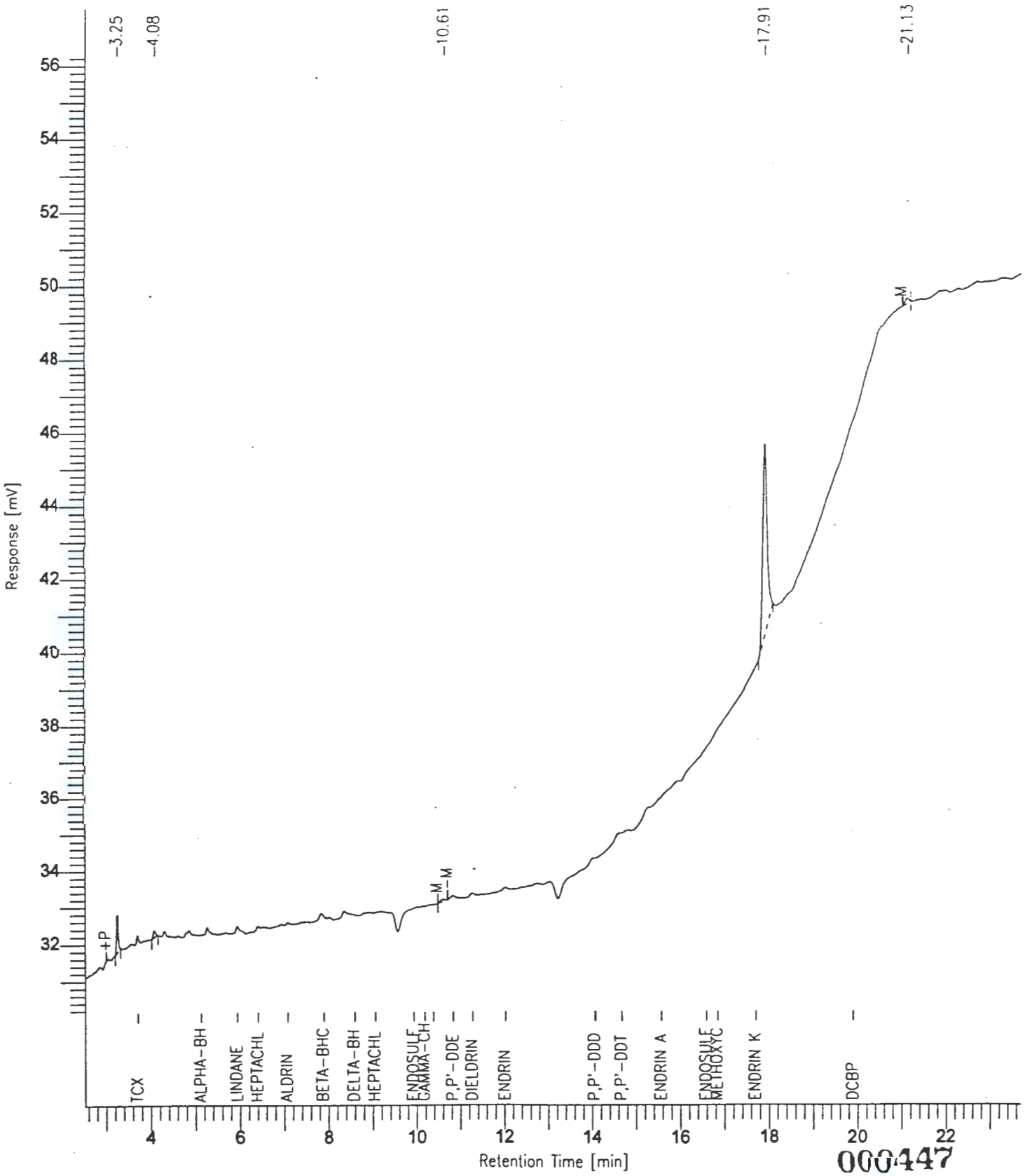
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
4	17.914		36143	B	5255	-------
			36143		5255	

9513355.1541

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\999B041.RAW
Method :
Start Time : 2.53 min End Time : 23.71 min
Scale Factor: 0.0 Plot Offset: 30 mV

Sample #:
Date : 5/18/94 09:13 AM
Time of Injection: 5/9/94 12:25 PM
Low Point : 30.16 mV High Point : 56.27 mV
Plot Scale: 26.1 mV



000447

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*3 Time : 5/18/94 09:13 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 01:09 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B042.RAW
Result File : C:\TC4\HP58909\999B042.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B042.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B042.RST
Calib Method : C:\TC4\HP58909\999B from C:\TC4\HP58909\999B042.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 9857.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 9

DATA REPORT

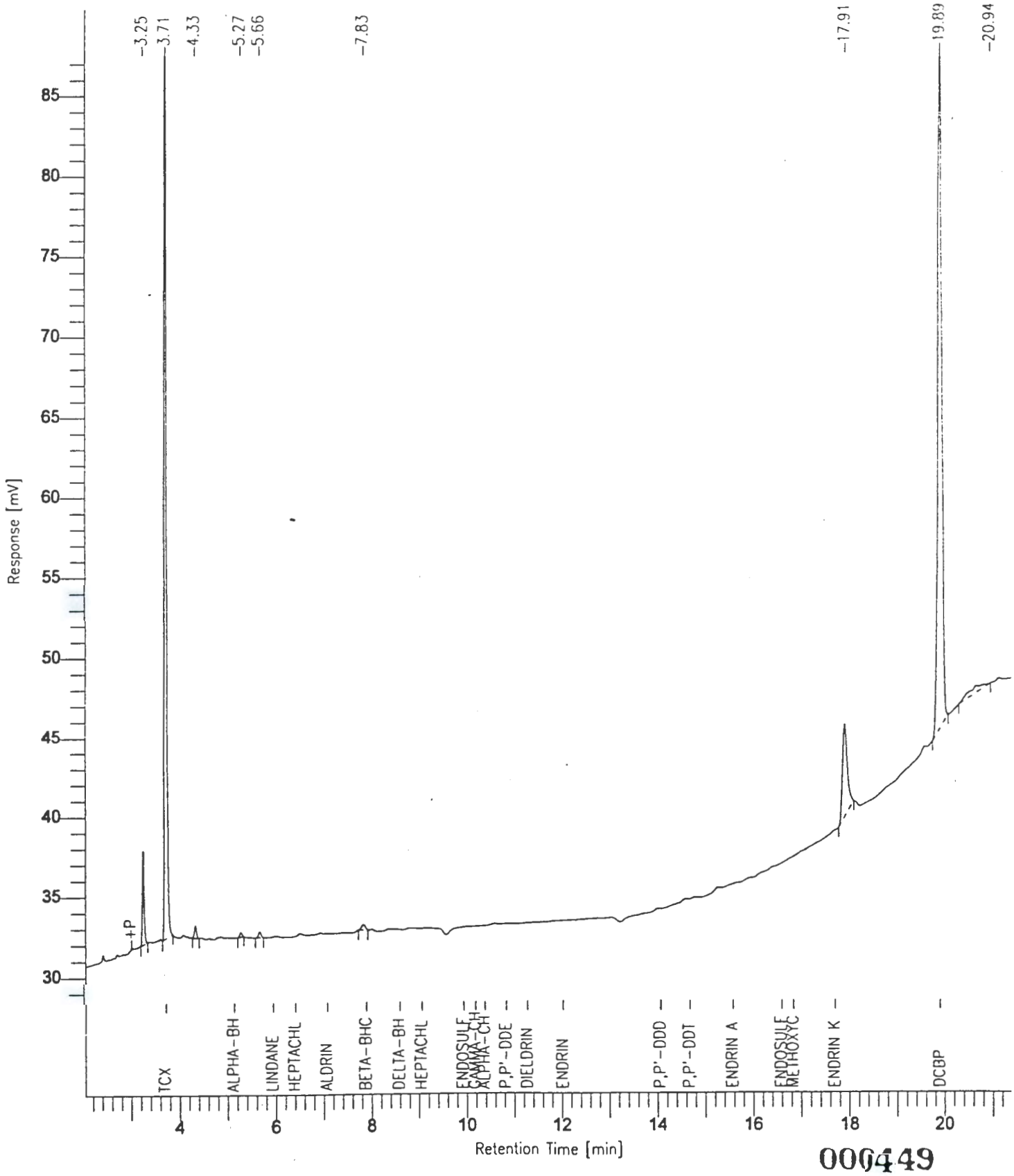
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.246		15478	B	6015	-------
2	3.712	TCX	185158	B	67672	-0.0015
7	17.914		41432	B	5910	-------
8	19.894	DCBP	261848	B	42808	-0.0271
			503917		122405	

9513355.1545

Chromatogram

Sample Name :.MB*PIBLK*3
FileName : C:\TC4\HP58909\999B042.RAW
Method :
Start Time : 2.04 min End Time : 21.39 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 5/18/94 09:13 AM
Time of Injection: 5/9/94 01:09 PM
Low Point : 28.43 mV High Point : 87.52 mV
Plot Scale: 59.1 mV



000449

Software Version: 4.0<1C29>
Sample Name : CK*PEM*3 Time : 5/18/94 09:14 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 01:48 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B043.RAW
Result File : C:\TC4\HP58909\999B043.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B043.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B043.RST
Calib Method : C:\TC4\HP58909\999BPEM from C:\TC4\HP58909\999B043.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 20

DATA REPORT

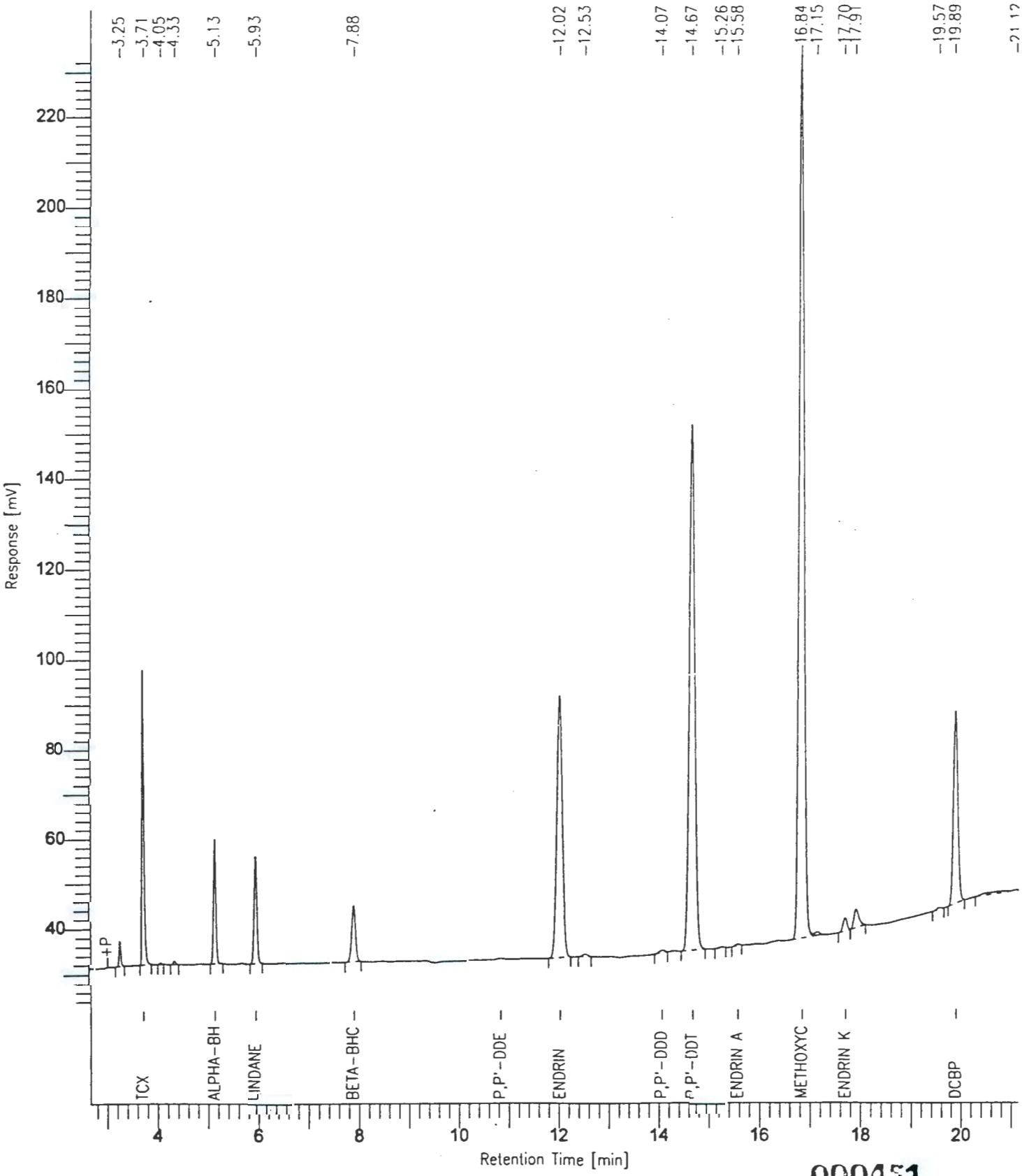
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.711	TCX	183072	B	66407	-0.0343
5	5.125	ALPHA-BHC	89689	B	27663	-0.0832
6	5.930	LINDANE	92525	B	24055	-0.0913
7	7.880	BETA-BHC	65512	B	12426	-0.0767
8	12.018	ENDRIN	444474	B	58450	-0.0530
10	14.072	P,P'-DDD	4497	B	579	0.0597
11	14.670	P,P'-DDT	864784	B	117013	-0.0275
13	15.577	ENDRIN ALDEHYDE	2195	B	329	0.0213
14	16.838	METHOXYCHLOR	1328970	B	196548	-0.0320
16	17.695	ENDRIN KETONE	16558	B	2949	-0.0500
19	19.894	DCBP	265460	B	43005	-0.0276

9513355.1545

Chromatogram

Sample Name : CK*PEM*3
FileName : C:\TC4\HP58909\999B043.RAW
Method :
Start Time : 2.67 min End Time : 21.15 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #:
Date : 5/18/94 09:14 AM
Time of Injection: 5/9/94 01:48 PM
Low Point : 22.04 mV High Point : 233.26 mV
Plot Scale: 211.2 mV



000451

9513355.1546

RAW QC DATA

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK1

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Matrix: (soil/water) SOIL Lab Sample ID: MB*QC*1

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

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

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/06/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/09/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3	U
742-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5566-34-7	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	67.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

Software Version: 4.0<1C29>
Sample Name : MB*QC*1 5-6-94 PBLK1 Time : 5/18/94 09:00 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 08:02 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A035.RAW
Result File : C:\TC4\HP58909\999A035.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A035.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A035.RST
Calib Method : C:\TC4\HP58909\999A from C:\TC4\HP58909\999A035.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5922.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 25

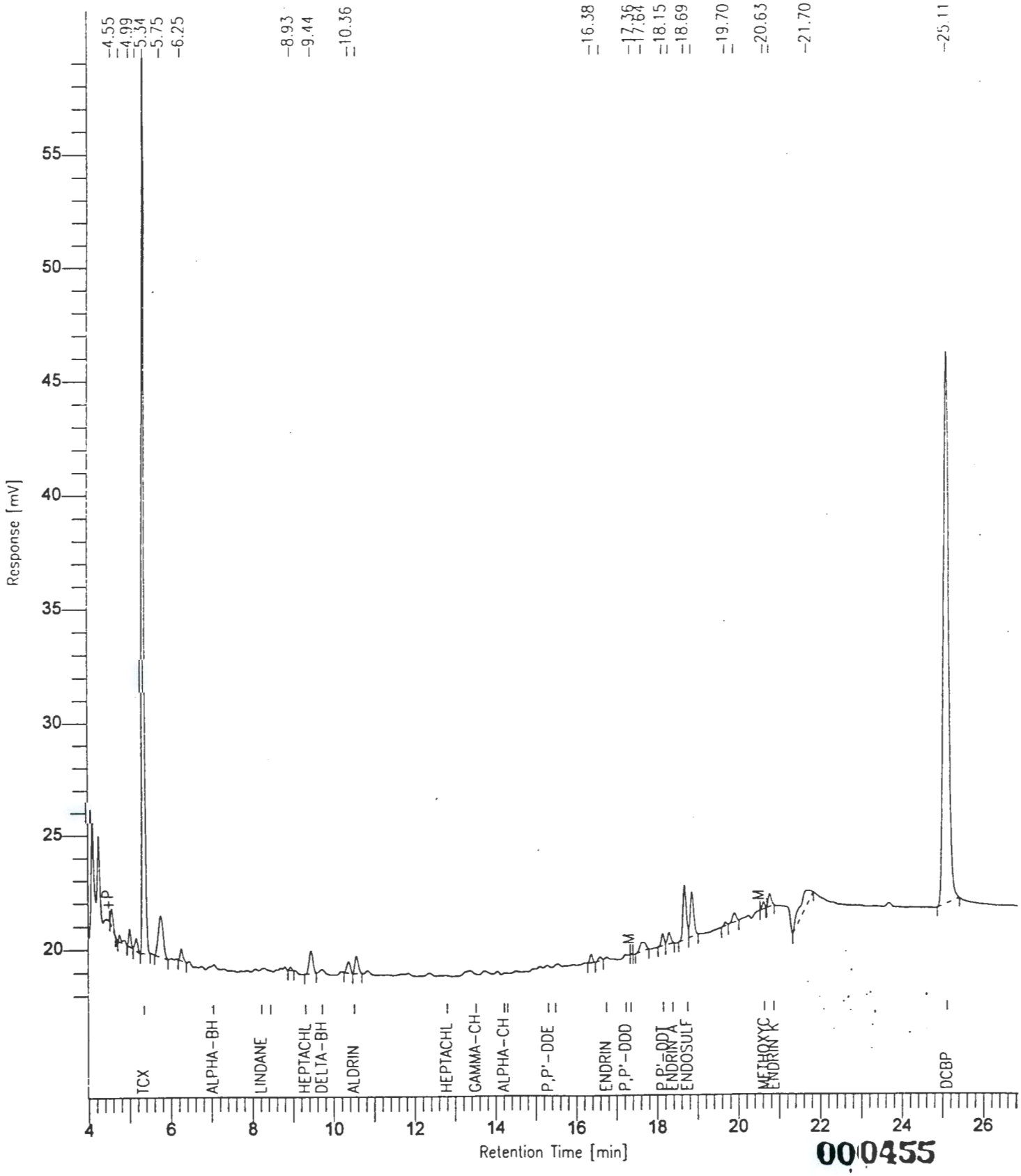
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
5	5.341	TCX	157667	B	45717	-0.0029
6	5.749		14658	B	1780	-------
9	9.437		6598	B	997	-------
18	18.688	ENDOSULFAN SULFATE	13616	B	2380	-0.3467
19	18.869		11587	V	1954	-------
24	21.701		14315	B	606	-------
25	25.112	DCBP	216298	B	24345	-0.0348
			434740		77778	

Chromatogram

Sample Name : MB*QC*1 5-6-94 PBLK1
FileName : C:\TC4\HP58909\999A035.RAW
Method :
Start Time : 3.97 min End Time : 26.86 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/18/94 09:00 AM
Time of Injection: 5/9/94 08:02 AM
Low Point : 17.59 mV High Point : 59.25 mV
Plot Scale: 41.7 mV



Software Version: 4.0<1C29>
Sample Name : MB*QC*1 5-6-94 Time : 5/18/94 09:08 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 08:41 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B036.RAW
Result File : C:\TC4\HP58909\999B036.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B036.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B036.RST
Calib Method : C:\TC4\HP58909\999B from C:\TC4\HP58909\999B036.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 9857.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 32

DATA REPORT

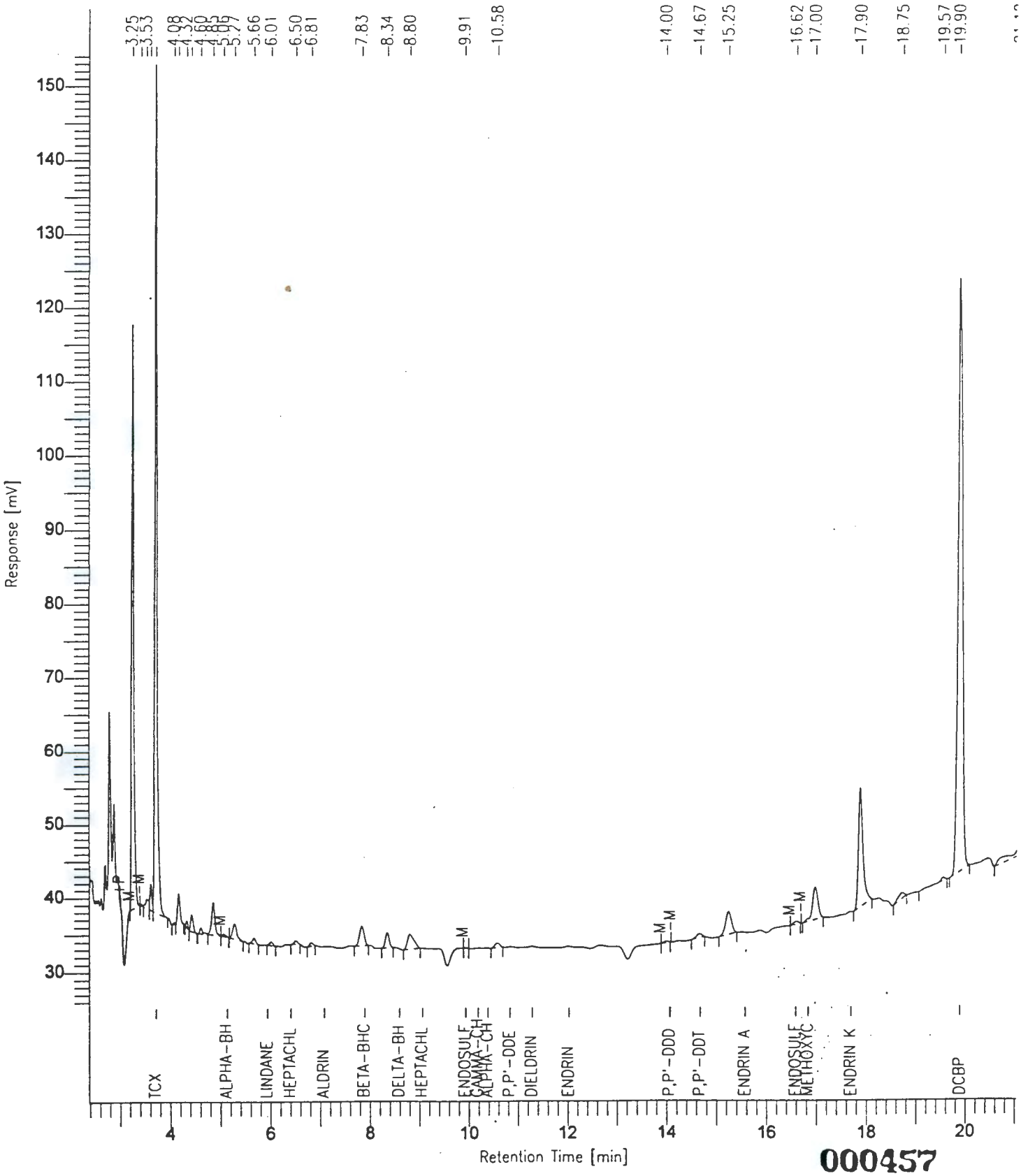
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.247		240566	*B	80536	-------
5	3.711	TCX	352443	V	116517	-0.0193
7	4.163		14292	V	4178	-------
11	4.848		19988	*V	4455	-------
13	5.271		11208	B	2048	-------
18	7.828		16872	B	2622	-------
19	8.340		10896	B	2016	-------
20	8.801		18694	B	1991	-------
25	15.248		25751	B	3119	-------
27	16.995		34188	B	4433	-------
28	17.903		104533	B	16328	-------
31	19.895	DCBP	508038	B	80641	-0.0217

9513555.1551

Chromatogram

Sample Name : MB*QC*1 5-6-94
FileName : C:\TC4\HP58909\999B036.RAW
Method :
Start Time : 2.38 min End Time : 21.05 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #:
Date : 5/18/94 09:08 AM
Time of Injection: 5/9/94 08:41 AM
Low Point : 25.17 mV High Point : 154.03 mV
Plot Scale: 128.9 mV



000457

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SV201001MS

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Matrix: (soil/water) SOIL Lab Sample ID: SPM1*CDMHNSS*30

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

% Moisture: 2 decanted: (Y/N) Y Date Received: 05/06/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/06/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/09/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.8 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	16.	
76-44-8	Heptachlor	14.	
309-00-2	Aldrin	13.	
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	31.	
72-55-9	4,4'-DDE	33.	
72-20-8	Endrin	30.	
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	46.	
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.4	U
742-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.7	U
5566-34-7	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	34.	U
11104-28-2	Aroclor-1221	68.	U
11141-16-5	Aroclor-1232	34.	U
53469-21-9	Aroclor-1242	34.	U
12672-29-6	Aroclor-1248	34.	U
11097-69-1	Aroclor-1254	34.	U
11096-82-5	Aroclor-1260	34.	U

9513355.1553

Software Version: 4.0<1C29>
Sample Name : SPM1*CDMHNSS*30 5-6-94 Time : 5/18/94 09:02 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 10:11 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A038.RAW
Result File : C:\TC4\HP58909\999A038.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A038.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A038.RST
Calib Method : C:\TC4\HP58909\999A from C:\TC4\HP58909\999A038.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5922.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 48

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
5	5.144		6130	V	1056	-------
6	5.339	TCX	158319	B	45407	-0.0438
7	5.690		32059	V	3644	-------
9	6.249		6070	V	922	-------
12	8.213	LINDANE	181345	V	39339	-0.0537
13	9.296	HEPTACHLOR	238901	B	39393	-0.0594
14	10.491	ALDRIN	178994	B	25786	-0.0746
17	12.254		6721	B	896	-------
18	12.415		13888	V	1816	-------
19	13.371		13428	B	1074	-------
23	15.304	P,P'-DDE	367169	B	67775	-0.0537
24	15.484	DIELDRIN	379858	V	65924	-0.0328

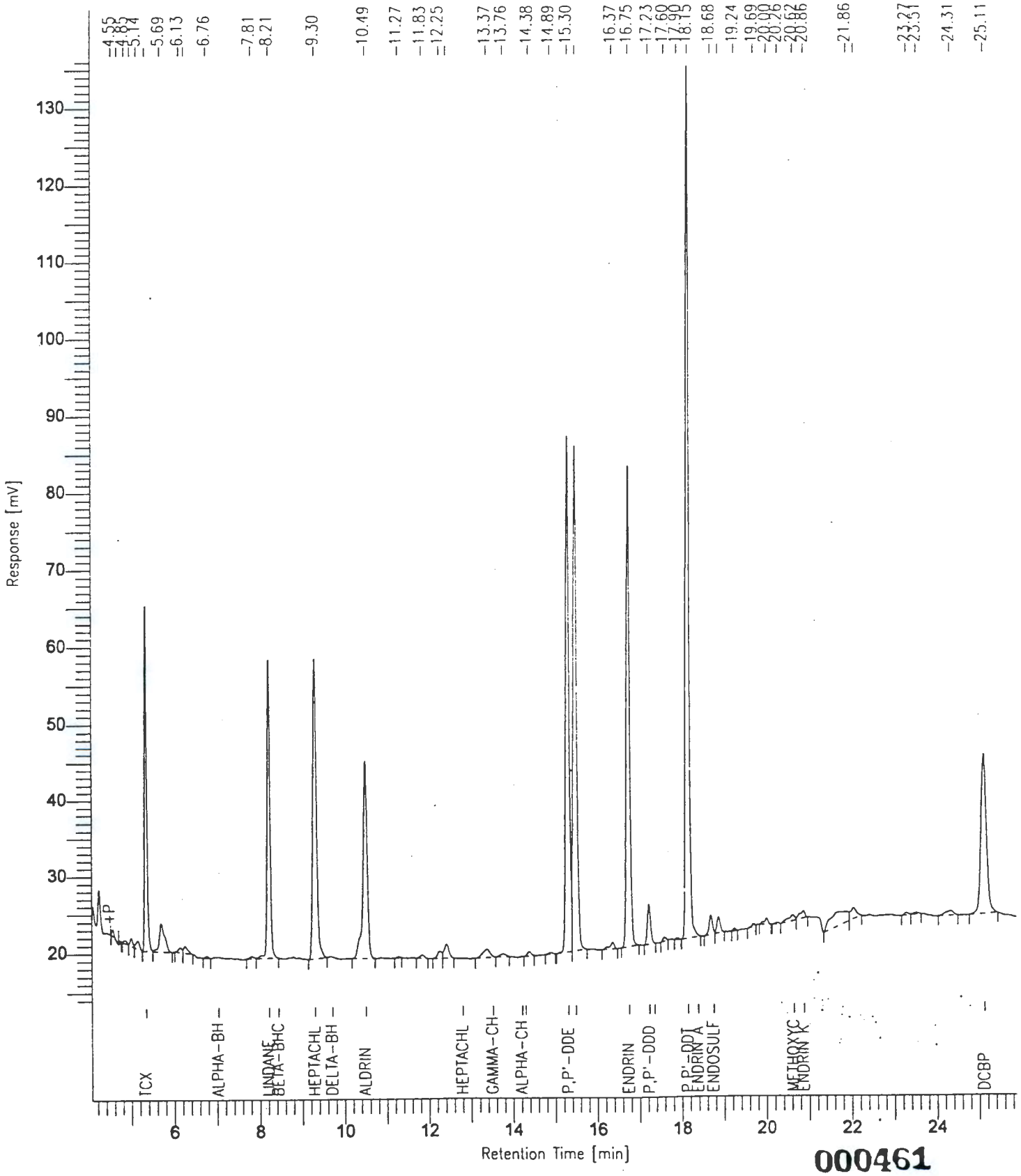
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
25	16.366		6880	B	880	-------
26	16.750	ENDRIN	327881	B	62785	-0.0316
27	17.227	P,P'-DDD	27665	B	5147	-0.0547
30	18.149	P,P'-DDT	551613	B	113812	-0.0216
31	18.682	ENDOSULFAN SULFATE	13989	B	2545	-0.3792
32	18.860		11409	V	2045	-------
37	20.616	METHOXYCHLOR	8819	B	791	-0.1325
38	20.863	ENDRIN KETONE	8612	V	982	-0.0687
39	21.864		49379	B	1398	-------
40	22.038		14380	V	1443	-------
43	24.314		8140	B	602	-------
44	25.105	DCBP	190818	B	21258	-0.0631
			2802465		506721	

9513355.1555

Chromatogram

Sample Name : SPM1*CDMHNSS*30 5-6-94
FileName : C:\TC4\HP58909\999A038.RAW
Method :
Start Time : 4.06 min End Time : 25.88 min
Scale Factor: 0.0 Plot Offset: 13 mV

Sample #:
Date : 5/18/94 09:02 AM
Time of Injection: 5/9/94 10:11 AM
Low Point : 13.14 mV High Point : 136.83 mV
Plot Scale: 123.7 mV



000461

Software Version: 4.0<1C29>
Sample Name : SPM1*CDMHNSS*30 5-6-94 Time : 5/18/94 09:11 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 10:56 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B039.RAW
Result File : C:\TC4\HP58909\999B039.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B039.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B039.RST
Calib Method : C:\TC4\HP58909\999B from C:\TC4\HP58909\999B039.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 9857.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 53

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.247		346538	*B	107724	-------
2	3.463		13797	B	4600	-------
4	3.609		16801	V	6193	-------
5	3.711	TCX	336003	V	112170	-0.0306
10	4.418		13837	V	3857	-------
12	4.846		133783	B	27732	-------
14	5.274		15690	*B	2909	-------
17	5.933	LINDANE	456476	B	117365	-0.0384
18	6.397	HEPTACHLOR	546805	B	112173	-0.0457
19	7.071	ALDRIN	375789	B	75330	-0.0326
21	8.168		25042	B	4342	-------
22	8.335		15596	V	2905	-------

9513355.1557

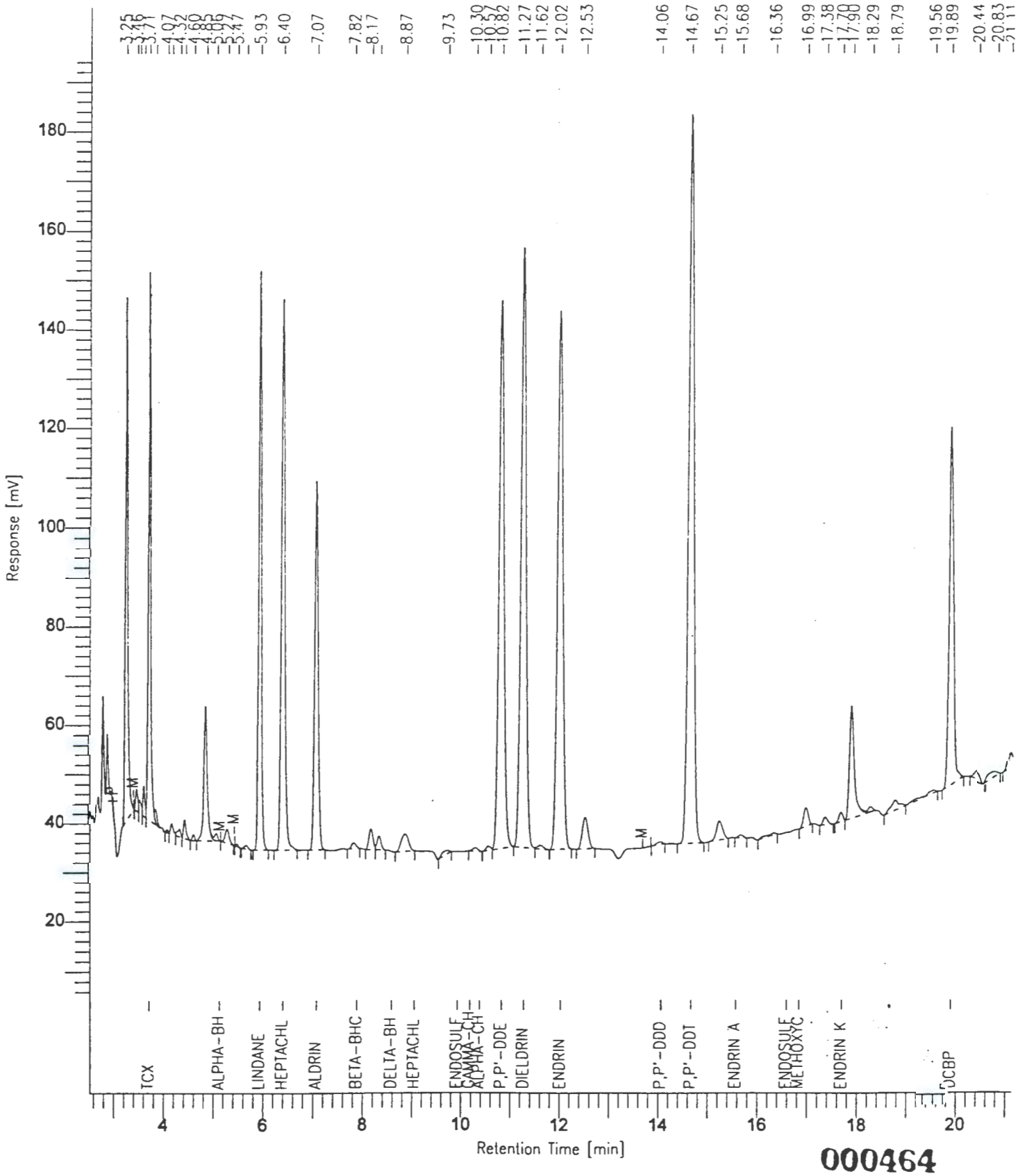
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
23	8.865		37444	B	3589	-------
27	10.823	P,P'-DDE	800590	V	111147	-0.0716
28	11.271	DIELDRIN	883722	B	121930	-0.0655
30	12.017	ENDRIN	821941	B	109096	-0.0618
31	12.530		52813	B	6533	-------
33	14.670	P,P'-DDT	1088242	B	147824	-0.0303
34	15.251		34688	B	3910	-------
37	16.994		24694	B	3835	-------
38	17.380		10230	B	1602	-------
39	17.695	ENDRIN KETONE B/L	10883	B	1925	-0.0497
40	17.903		156983	V	23031	-------
42	18.789		25133	B	2064	-------
43	19.557		12152	V	578	-------
44	19.892	DCBP	454878	B	72162	-0.0337
45	20.442		18809	B	2006	-------
46	20.825		17954	B	1041	-------
47	21.112		17247	B	2775	-------
49	21.835		13276	B	1218	-------
52	23.579		29592	B	2299	-------
			6807427		1195869	

9513355.1558

Chromatogram

Sample Name : SPM1*CDMHNSS*30 5-6-94
FileName : C:\TC4\HP58909\999B039.RAW
Method :
Start Time : 2.53 min End Time : 21.15 min
Scale Factor: 0.0 Plot Offset: 4 mV

Sample #:
Date : 5/18/94 09:11 AM
Time of Injection: 5/9/94 10:56 AM
Low Point : 4.32 mV High Point : 195.70 mV
Plot Scale: 191.4 mV



000464

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SV201001MSD

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49096

Matrix: (soil/water) SOIL Lab Sample ID: SPM2*CDMHNSS*30

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

% Moisture: 2 decanted: (Y/N) Y Date Received: 05/06/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/06/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/09/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.8 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	20.	
76-44-8	Heptachlor	18.	
309-00-2	Aldrin	17.	
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	40.	
72-55-9	4,4'-DDE	51.	
72-20-8	Endrin	39.	
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	58.	
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.4	U
742-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.7	U
5566-34-7	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	34.	U
11104-28-2	Aroclor-1221	68.	U
11141-16-5	Aroclor-1232	34.	U
53469-21-9	Aroclor-1242	34.	U
12672-29-6	Aroclor-1248	34.	U
11097-69-1	Aroclor-1254	34.	U
11096-82-5	Aroclor-1260	34.	U

9513355.1960

Software Version: 4.0<1C29>
Sample Name : SPM2*CDMHNSS*30 5-6-94 Time : 5/18/94 09:03 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 10:56 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999A039.RAW
Result File : C:\TC4\HP58909\999A039.RST
Inst Method : HP58909 from C:\TC4\HP58909\999A039.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\999A039.RST
Calib Method : C:\TC4\HP58909\999A from C:\TC4\HP58909\999A039.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 5922.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 52

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
6	5.338	TCX	205689	B	58463	-0.0483
8	5.691		20984	V	2700	-------
13	8.213	LINDANE	234687	V	51695	-0.0427
15	9.297	HEPTACHLOR	307267	B	50836	-0.0537
16	10.492	ALDRIN	220646	B	33919	-0.0682
21	12.246		7046	B	1014	-------
22	12.420		14814	V	2063	-------
23	13.369		5924	B	459	-------
27	15.306	P,P'-DDE	576852	B	107097	-0.0419
28	15.486	DIELDRIN	517443	V	89510	-0.0213
30	16.750	ENDRIN	447906	B	86763	-0.0271
31	17.229	P,P'-DDD	38939	B	7229	-0.0433

000466

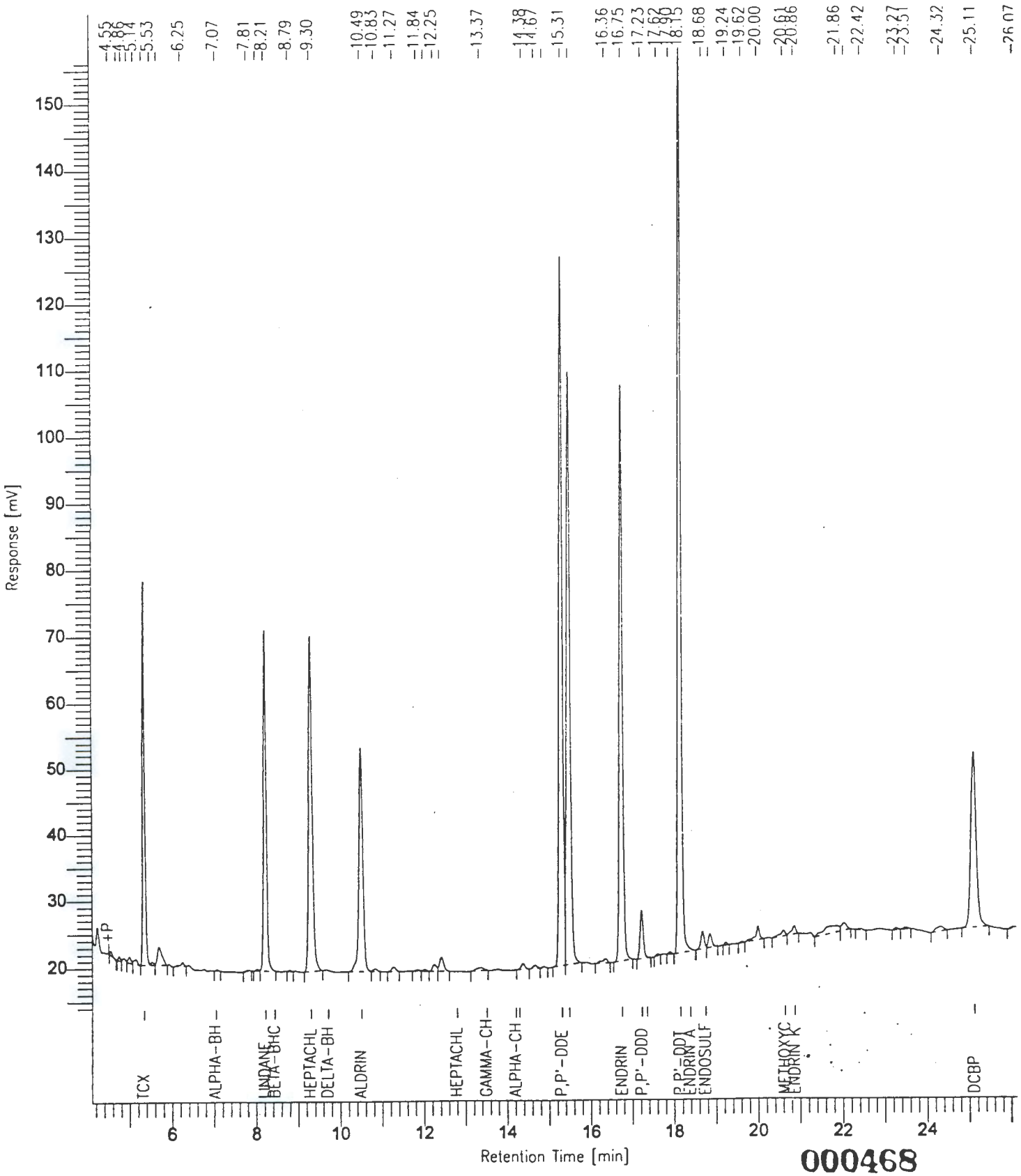
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
34	18.150	P,P'-DDT	713600	B	145626	-0.0174
35	18.683	ENDOSULFAN SULFATE	14718	B	2594	-0.3727
36	18.858		11876	V	2035	-------
39	19.999		14058	V	2069	-------
40	20.610	METHOXYCHLOR	7579	B	873	-0.1615
41	20.864	ENDRIN KETONE	8533	V	1223	-0.0633
42	21.857		26746	B	940	-------
43	22.039		9480	V	1140	-------
47	24.320		8836	B	699	-------
48	25.107	DCBP	234860	B	26699	-0.0562
			3648483		675645	

9513355.1562

Chromatogram

Sample Name : SPM2*CDMHNSS*30 5-6-94
FileName : C:\TC4\HP58909\999A039.RAW
Method :
Start Time : 4.11 min End Time : 26.13 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #:
Date : 5/18/94 09:03 AM
Time of Injection: 5/9/94 10:56 AM
Low Point : 13.82 mV High Point : 156.56 mV
Plot Scale: 142.7 mV



000468

9513355.1563

Software Version: 4.0<1C29>
Sample Name : SPM2*CDMHNSS*30 5-6-94 Time : 5/18/94 09:12 AM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/9/94 11:40 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\999B040.RAW
Result File : C:\TC4\HP58909\999B040.RST
Inst Method : HP58909 from C:\TC4\HP58909\999B040.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\999B040.RST
Calib Method : C:\TC4\HP58909\999B from C:\TC4\HP58909\999B040.RST
Sequence File : C:\TC4\HP58909\999A.SEQ

Sample Volume : 1 ul Area Reject : 9857.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 52

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.246		216121	*B	68309	-------
4	3.710	TCX	410220	V	141052	-0.0489
8	4.416		11388	V	3322	-------
10	4.843		95363	*B	21815	-------
12	5.278		10375	B	2020	-------
15	5.932	LINDANE	599923	B	152963	-0.0537
16	6.396	HEPTACHLOR	685854	B	142031	-0.0620
17	7.070	ALDRIN	489096	B	97410	-0.0355
18	7.824		16074	B	2216	-------
19	8.167		34307	B	5721	-------
20	8.333		12416	V	2321	-------
21	8.864		23626	B	2261	-------

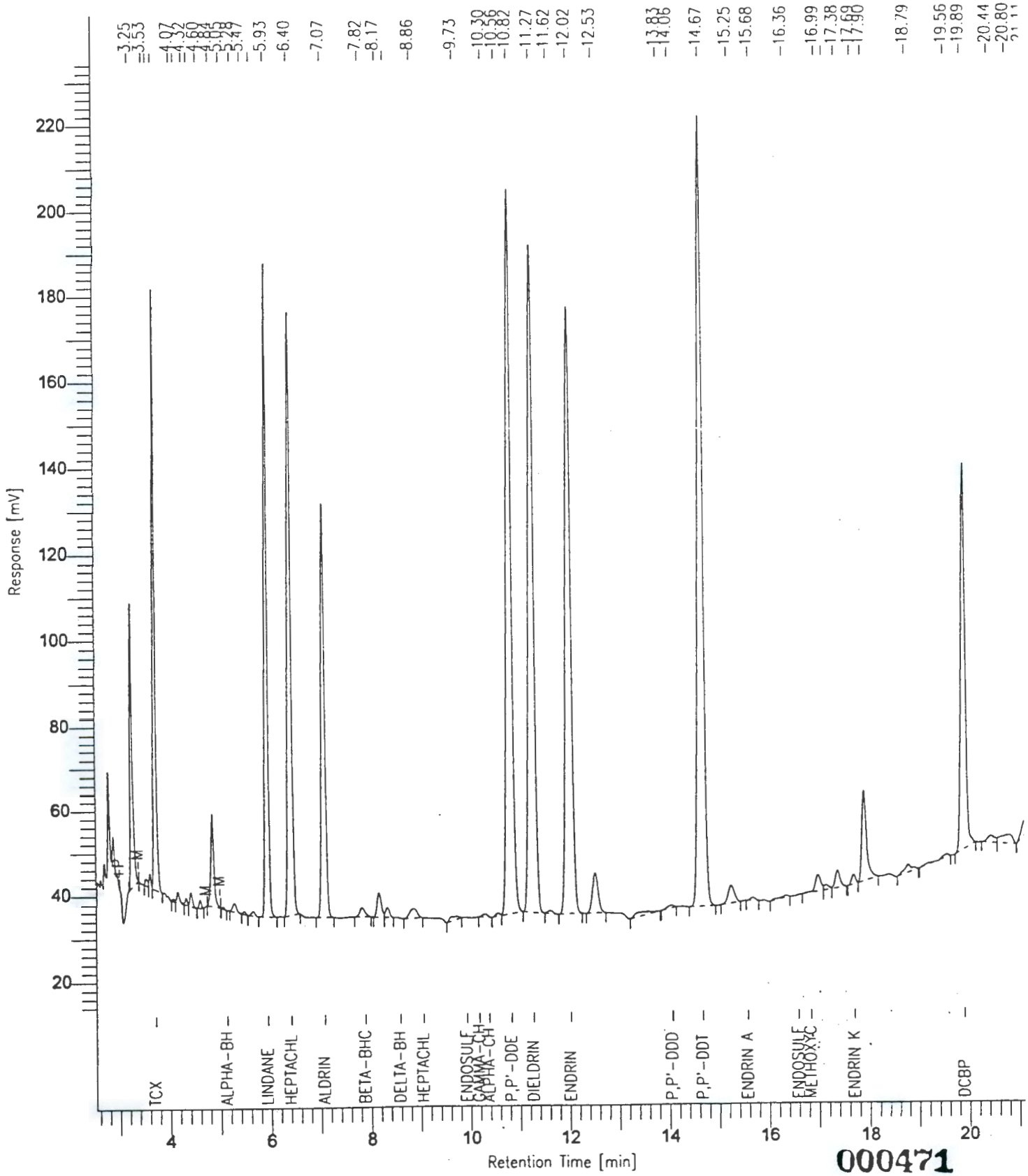
9513355.1564

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
22	9.728		11052	B	722	-------
25	10.824	P,P'-DDE	1208241	V	169402	-0.0641
26	11.270	DIELDRIN	1133324	B	156522	-0.0665
28	12.018	ENDRIN	1070198	B	141880	-0.0534
29	12.530		76736	B	9478	-------
30	13.825		19299	B	-2e-13	-------
32	14.670	P,P'-DDT	1372530	B	185122	-0.0279
33	15.250		36771	B	4116	-------
36	16.993		29112	B	3885	-------
38	17.376		27339	V	4078	-------
39	17.693	ENDRIN KETONE BPL	12647	B	2297	-0.0615
40	17.901		140406	B	21375	-------
41	18.792		19682	B	1812	-------
42	19.555		10262	B	661	-------
43	19.892	DCBP	567838	B	89960	-0.0359
44	20.440		16767	B	1603	-------
45	20.797		32890	V	2081	-------
46	21.110		24755	B	3329	-------
48	21.824		15905	V	1389	-------
51	23.578		32222	B	2519	-------
			8462743		1443672	

Chromatogram

Sample Name : SPM2*CDMHNSS*30 5-6-94
FileName : C:\TC4\HP58909\999B040.RAW
Method :
Start Time : 2.53 min End Time : 21.10 min
Scale Factor: 0.0 Plot Offset: 12 mV

Sample #:
Date : 5/18/94 09:12 AM
Time of Injection: 5/9/94 11:40 AM
Low Point : 12.22 mV High Point : 234.81 mV
Plot Scale: 222.6 mV



9513355.1566

OTHER RELEVANT DOCUMENTS

9513355.1567

ESE ENVIRONMENTAL SCIENCE AND ENGINEERING, INC. | **CHROMATOGRAPHIC ANALYSIS LOG**

Date: 5/6/94
Analyst: FFC2790
Project: 1944022G 0201
Case No.: N/A
Instrument ID: 662A
Data System ID: N/A
Analysis Type: 3/90 OCP

COLUMN		INJECTOR		DETECTOR	
Length		Type		Type	
OD		Temp °C		Attn.	
ID		Volume		Range	
Phase		Carrier Gas		Temp °C	
Thickness		Type		Make-up	
Support		Flow Rate			
Loading					
Oven Temp. Initial	°C		for		Min.
Rate A		Final Temp A °C		for	Min.
Rate B		Final B °C		for	Min.

Comments: GPC chk = 1.0ml 3/90 ~~GPC~~ SUM GPC chk 890:25 in 10ml MeCl
WIFF 5/6/94

3/90 OCP SPIKE chk - fend Std = 1.0ml 3/90 OCP Matrix (731:84) + 1.0ml

Run No.	Sample No.	Run No.	Sample No.	Run No.	Sample No.
1	GPC chk				3/90 Sum (731:86
2	SPIKE chk				
3	meth				
4	CONNSSBLK		d = 30		
5	30MS		c = 19		
6	30MSD		w = 11		
7	MeCl				
8	29				
9	30				
10	end		chart speed = 10cm/hr		
			MeCl lot #		JB H198
			temp = 20.1°C		
			~~flow rate~~ =		flow rate = 5.1
			5/6/94 WIFF		ml/min

FORM 87303

9513355.1568

ESE ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.

CHROMATOGRAPHIC ANALYSIS LOG

Date: 5-8-94
Analyst: VIC BAUDER 1781
Project: CDM-HANFORD N. SLOPE
Case No.: 194422G 0201
Instrument ID: HP5890 G.C.
Data System ID: TURBOCHROM 4.0
Analysis Type: CLP-PEST-3/90

COLUMN A/B
Length: 30M
~~00~~ 328225/249246
ID: 0.53mm
Phase: DB608/DB1701
Thickness: 0.83/1.0 µm
Support: FUSED SILICA
Loading: NA

INJECTOR A/B
Type: ON COLUMN
Temp °C: 150 4/min 250
Volume: 1.0 UL
Carrier Gas: HELIUM
Type: VPC
Flow Rate: 7.0/16.0 ml/min

DETECTOR A+B
Type: EC; N; 63
Attn.: 0
Range: 1
Temp °C: 300
Make-up: 5% CH4/Ar

Oven Temp. Initial: 140 °C for 1 Min
Rate A: 20 Final Temp A °C: 190 for 0 Min
Rate B: 3 Final B °C: 220 for 0 Min
8 275 14

Comments:
TURBOCHROM FILES: 999AX-* + 999BX-*

Run No.	Sample No.		Run No.	Sample No.		Run No.	Sample No.	
1	RESC	731:73	28	GQW1*32 PEKC 5-2-94		54	PIBLK	731:73
2	RESC	:73	29	*33		55	PEM	:81
3	INDAH	80	30	*34		56	GPC*1002B-1*BLK 5-9-94	
4	INDBH	80	31	*36		57	*MATRIX SPK	
5	HEXANE		32	HEXANE		58	*LCS SPK	
6	RESC	731:73	33	PIBLK	731:73	59	GPC*1002B-7*BLK	
7	PEM	81	34	INDAM	80	60	*MATRIX SPK	
8	AR1660	73	35	INDBM	80	61	*LCS SPK	
9	AR1221		36	CDMHNSS*BLK 5-6-94		62	HEXANE	
10	AR1232		37	*30		63	PIBLK	731:73
11	AR1242		38	*29		64	INDAM	:80
12	AR1248		39	*30MS		65	INDBM	:81
13	AR1254		40	*30MSD		66	2.5 NG/ML 2,4,5-TRICHLORO PHENOL	731:88
14	TOXAPH	73	41	HEXANE		67	FLOR*G48560*BLK 5-11-94	
15	INDAL	80	42	PIBLK	731:73	68	*FLOR CK	
16	INDBL		43	PEM	:81	69	*H02550 ABLK	
17	INDAM		44	2.5 NG/ML 2,4,5-TRICHLORO PHENOL	731:88	70	*FLOR CK	
18	INDBM		45	FLOR*CK*H08556 5-8-94		71	*H08556*BLK	
19	INDAH		46	*G48560 5-8-94		72	*FLOR CK	
20	INDBH	80	47	2.5 NG/ML 2,4,5-TRICHLORO PHENOL	731:88	73	2.5 NG/ML 2,4,5-TRICHLORO PHENOL	731:88
21	PIBLK	73	48	HEXANE		74	HEXANE	
22	PEM	731:81	49	PIBLK	731:73	75	PIBLK	731:73
23	GQW1*BLK PEKC 5-2-94		50	INDAM	:80	76	PEM	:81
24	*35		51	INDBM	:80	77	2,4,5-TRICHLORO PHENOL	
25	*35MS		52	2,4,5-TRICHLORO PHENOL				
26	*35MSD			NO SHOT DIP				
27	*31		53	HEXANE				

FORM 87303

BOOK NO: B-0465

~~000474~~

000474

ESE. ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.

ORGANIC LABORATORY/EXTRACTION LOG SHEET

PROJECT: ADM- HANFORD N. SLOPE
PROJECT NO.: 194402260201
CASE NO.: NA
EXTRACTOR(S): NM
CLEAN-UP: GPC / Florisil
DATE: 5/6/94
TIME:
EXTRACTION METHOD: 3/90 OCP SOM
SAMPLE FRACTION: SS
CHECKED BY: CDG
BALANCE USED: #26

BOOK NO: 404

SAMPLE NO.	VOLUME-ml MASS-gr.	INITIAL/ FINAL pH	TYPE/DATE OF CLEAN-UP	FINAL VOL. SOLVENT	SURRO-GATE ADDED Y/N	COMMENTS
COMHNSSX 29	30gr	8.59	GPC/Florisil	10.0ml Hex	yes	All samples receives 2.0ml
30	↓	8.78	↓	↓	↓	3/90 CLP PEST Surrogate
30ms	↓	—	↓	↓	↓	0.2ug/ml TCX/DCBP 731:87
30msd	↓	—	↓	↓	↓	VIC BAUDER
BLK	↓	—	↓	↓	↓	
						30ms, 30msd receives 1.0ml
						CLP PEST 3/90 MATRIX 0.5-1.0ug/ml.
						731:84 VIC BAUDER exp 10/20/94
						SPIKED: CAH
						WIT: N

CHAIN-OF-CUSTODY RECORD

FORM 87262

000475

067

951355.1569

9513355.1570

SAMPLES CDMHN55* 29, 30

3/90 CLP OCP SONICATIONS

EXTRACTION SOLVENT: 50/50 $MeCl_2$/ACETONE

1) Decant aqueous layer from sample, discard stones, sticks, leaves: weigh up **30.0g** soil into Teflon beaker, MM

2) Add **60.0g** baked Na_2SO_4 (granular or powdered) to dry

3) Method blank is **30.0g** of Na_2SO_4

4) Weigh **50.0g** sample into 250ml beaker, add **50ml** HPLC H_2O to all, stir for 1 hour, check and tabulate pH.

5) Tune sonicator.

6) Spike samples, Immediately add 100ml of 50/50 MeCl/Acetone

7) Sonicate for 3 minutes with 3/4 inch horn, power at 10, and duty cycle at 50%, 1s pulse. Centrifuge at 1000 RPM for 5 minutes, decant extract into KD-receiver through funnels packed with silane treated glasswool and baked sodium sulfate

8) Repeat steps (7) two more times

9) Conc. to 10mls with snyder attachment at 60-80 °C

10) Conc. to 1ml with microsnyder attachment, take to 10.0ml with MeCl in GCT. 5/6/94

11) Load on GPC, check if calibrated within 1 week, GPC check peaks should have <5% shift from previous run WIFF 5/6/94

12) Conc extracts off GPC to 10ml using KD-receivers, make copies of GPC chart and include with logsheets DCS 07.94

13) Solvent exchange to hexane, take to 5.0ml Hexane WIFF 5/7/94

14) Run 2.0ml through florisil catridge, elute with 8ml of 10% acetone in hexane, collect in receivers. Check if performance chk done on catridge, tabulate lot#. Catridge must be rinsed with 10ml of 10% acetone in hexane prior to use. lot d27570

15) Conc to <2ml using modified microsnyders, quantitatively transfer to amber vials, top to 2.0ml mark with hexane

16) Clean fraction to fidge C, unclead to B2 in vials

QC Required: MS —
MSD —
BLANK — to 10024 WIFF 5/6/94

Chain of Custody

	TO FF 5/6/94	~~to 10024~~ WIFF 5/6/94	to 77 DLC 5-7-94

Clean to fridge C unclean to ~~B2~~ B2 | CLEAN TO FRIDGE 19 5-8-94 USB

WIFF 5/7/94 WIFF 5/7/94

000476

PROJECT CDM-HANFORD N-SCOPE

Notebook No. 1033

Continued From Page

19440824 0201 3/90 CCP OCP Scan
NM SS

CONHWSSH 29, 30, 30MS, 30MSD, BLK

1- Weighed up 30g of sample w Powered Na2SO4 to dry
2- Added 150ml 50/50 acetone/hexane
3- Spiked sample
4- Sonicated for 3 min each
5- Poured up into evaporator flasks w 3 extract
Conc to 10ml in ROTO-VAP at 86°
Loaded on GPC 100ZR [signature] 5/6/94
5/6/94 WIFF

Run time of GPC ~ 9:00 AM DLC 5-07-94
Conc to ~ 10ml Jo 77 DLC 5-07-94
WIFF 5/7/94

~~Take to 5ml ~~ ~~Hexane~~ (lot 627570
2ml on on florisil ~~Cartridge~~ for florisil cartridge
WFF 5/7/94
cartridge, primed twice with 10ml Hexane, then eluted with 8ml 90/10 Hex/Acetone.
(Cartridge was primed with 10ml
WFF 5/7/94

taken to 5ml Hexane. Then 2ml loaded on primed florisil cartridge lot 627570 Verified USB 9/21/93 (primed with ~10ml 90/10 Hex/Acetone) and then primed/Eluted with ~10ml 90/10 Hex/Acetone into a receiver taken to 2ml in vials
[signature] 5/7/94

Continued on Page

Read and Understood By

Nicole Mathus 5/6/94 [signature] 5/7/94

Signed Date Signed Date

000477

PROJECT STD PREP. FOR CLP-PEST-3/90

Continued From Page

PESTICIDE SURROGATE MIX
RESTEK LOT# A002788 CATALOG# 32000

	UG/ML	0.5 ML →	STOCK UG/ML	1 ML → 100 ML HEXANE	PIBLK NG/ML	20 ML → 200 ML ACETONE	SURROGATE SPIKE UG/ML
TCX	200.	50 ML ACETONE	2.		20.		0.2
DCBP	200.		2.		20.		0.2

TOXAPHENE MIX RESTEK LOT# A000038
CATALOG# 32005

	UG/ML	0.5 ML → 25 ML HEXANE	STOCK UG/ML		UG/ML ②	1 ML → 10 ML TOTAL HEXANE	STOCK UG/ML
TOXAPHENE	1000.		20.	1016	1000		10.
				1260	1000		10.

COMPOUND	STOCK UG/ML	SOURCE NOTEBOOK:PAGE	PREP. DATE	VOLUME ADDED ML	VOLUME ① OF 2 UG/ML TCX+DCBP ADDED ML.	FINAL VOLUME HEXANE ML.	PER CONC. NG/ML	TCX+DCBP CONC. NG/ML
AR1221	10.	854:77	8-29-93	2.	1.	100	200.	20.
AR1232	10.	854:77	8-29-93	1.	1.	100	100.	20.
AR1242	10.	854:77	8-29-93	1.	1.	100	100.	20.
AR1248	10.	854:77	8-29-93	1.	1.	100	100.	20.
AR1254	10.	854:77	8-29-93	1.	1.	100	100.	20.
AR1016	10.	731:73	11-18-93	1.	1.	100	100.	20.
AR1260	10.						100.	
TOXAPHENE	20.	731:73	11-18-93	2.5	1.	100	500.	20.

PESTICIDE RESOLUTION CHECK MIX
RESTEK LOT# A000056 CATALOG# 32001

	UG/ML	0.5 ML → 50 ML TOTAL HEXANE	RESC NG/ML
GAMMA-CHLORDANE	1.0		10.
ENDOSULFAN I	0.98		9.8
DIELDRIN	1.98		19.8
4,4'-DDE	1.98		19.8
ENDOSULFAN SULFATE	2.0		20.
ENDRIN KETONE	2.02		20.2
METHOXYCHLOR	9.98		99.8
TCX ①	2.	0.5 ML	20.
DCBP	2.		20.

HEXANE USED IS LOT # BF932 B+J BRAND NON-SPECTRO.

ACETONE USED IS LOT # BF929 B+J BRAND

① SEE ABOVE FOR STOCK TCX/DCBP PREP.
② SEE PAGE 82 OF NOTEBOOK 854 (BOB ROBERTSON) FOR STD. PREP.

Continued on Page

Nick S. Tyler 11-18-93 Robert R. Robertson 11-19-93

Read and Understood By

Signed Date Signed Date

Notebook No. 00731

PROJECT STD. PREP. FOR CLP-PEST -3/90

Continued From Page

CLP PESTICIDES/PCB (3/90 SOL)
CALIBRATION MIX 1 C-177-02
EXP=3/96 ISO-OCTANE NSI ENVIRONMENTAL SOLUTIONS

	UG/ML	INDAH NG/ML	INDAM NG/ML	INDAL NG/ML
ALPHA-BHC	8.	80.	20.	5.
GAMMA-BHC	8.	80.	20.	5.
4,4'-DDD	16.	160.	40.	10.
4,4'-DDT	16.	160.	40.	10.
DIELDRIN	16.	160.	40.	10.
ENDOSULFAN I	8.	80.	20.	5.
ENDRIN	16.	160.	40.	10.
HEPTACHLOR	8.	80.	20.	5.
4,4'-METHOXYCHLOR	80.	800.	200.	50.
TETRACHLORO-M-XYLENE	8.	80.	20.	5.
DECACHLOROBIPHENYL	16.	160.	40.	10.

0.5ML → 50.ML HEXANE → 0.5ML → 200 ML HEXANE

25.ML → 100.ML HEXANE

CLP PESTICIDES/PCB (3/90 SOL)
CALIBRATION MIX 2 C-176-02
EXP=3/96 ISO-OCTANE NSI ENVIRONMENTAL SOLUTIONS

HEXANE USED IS GHJ BRAND NON-SPECTRO LOT# BG656

	UG/ML	INDBH NG/ML	INDBM NG/ML	INDBL NG/ML
ALDRIN	8.	80.	20.	5.
BETA-BHC	8.	80.	20.	5.
DELTA-BHC	8.	80.	20.	5.
ALPHA-CHLORDANE	8.	80.	20.	5.
GAMMA-CHLORDANE	8.	80.	20.	5.
4,4'-DDE	16.	160.	40.	10.
ENDOSULFAN II	16.	160.	40.	10.
ENDOSULFAN SULFATE	16.	160.	40.	10.
ENDRIN ALDEHYDE	16.	160.	40.	10.
ENDRIN KETONE	16.	160.	40.	10.
HEPTACHLOR EPOXIDE	8.	80.	20.	5.
TETRACHLORO-M-XYLENE	8.	80.	20.	5.
DECACHLOROBIPHENYL	16.	160.	40.	10.

0.5ML → 50.ML HEXANE → 0.5ML → 200 ML HEXANE

25.ML → 100.ML HEXANE

Continued on Page

Nesta S. Zuk 3-29-94 — Signed — Date

Robert R. Robert 4/1/94 — Read and Understood By — Signed — Date

PROJECT STD. PREP. FOR CLP-PEST-3/90

Continued From Page

CLP PESTICIDES/PCB (3/90 SOW)
PERFORMANCE EVALUATION MIX C-180-01
EXP: 4/95, ISO-OCTANE NSI ENVIRONMENTAL SOLUTIONS

~~UG~~ USE LT 3-30-94	UG/ML		PEM NG/ML
ALPHA-BHC	1.		10.
BETA-BHC	1.		10.
GAMMA-BHC	1.		10.
4,4'-DDT	10.	0.2 ML →	100.
ENDRIN	5.	20 ML HEXANE	50.
4,4'-METHOXYCHLOR	25.		250.
TETRACHLORO-M-XYLENE	2.	GRADE NON-SPECTR	20.
DECACHLOROBIPHENYL	2.	LOT# BG656	20.

4-13-94 VIC BAUDER REMADE PEM AS ABOVE USING PEM C-180-01 AND HEXANE LOT # BG656 Robert R. Robertson 4/15/94

4-19-94 VIC BAUDER REMADE PEM AS ABOVE USING PEM C-180-01 AND HEXANE LOT #BH188 Robert R. Robertson 4/20/94

4-26-94 VIC BAUDER REMADE PEM AS ABOVE USING PEM C180-01 AND HEXANE LOT # BH188 Robert R. Robertson 4/26/94

5-3-94 Vic BAUDER REMADE PEM 0.1 ML → 10 ML HEXANE ~~10 ML~~ USING PEM C-180-01 AND HEXANE LOT # BH188.

Continued on Page

Nick S. Eyler 3-30-94 Read and Understood By Robert R. Robertson 4/11/94

Signed Date Signed Date

PROJECT MATRIX SPIKE PREP. CLP-PEST-3/90

Notebook No. 00731

Continued From Page

COMPOUND	INDIVIDUAL PRIMARIES ① NOTEBOOK:PAGE	UG/ML	VOLUME ADDED ML	STOCK MATRIX SPIKE UG/ML		MATRIX SPIKE UG/ML
LINDANE	933 : 40	1000.	1.	20.		0.5
HEPTACHLOR	933 : 40	1000.	1.	20.	2.5 ML →	0.5
ALDRIN	933 : 40	1000.	1.	20.		0.5
DIELDRIN	933 : 41	1000.	2.	40.	100 ML TOTAL	1.0
ENDRIN	933 : 41	1000.	2.	40.	IN METHANOL	1.0
4,4'-DDT	933 : 42	1000.	2.	40.		1.0

50. ML TOTAL IN ACETONE → B+J BRAND LOT # BA059

B+J BRAND LOT # BE686

① INDIVIDUAL PRIMARIES MADE BY JOE K. 4-5-94, SOLUTION C IN ACETONE WAS USED.

REMADE MATRIX SPIKE 5-6-94 VSB

STOCK MATRIX SPIKE → 5 ML → MATRIX SPIKE

200. ML METHANOL → B+J BRAND LOT # BE686 Robert R. Robertson 5/6/94

Continued on Page

Nat S. Lah 4-20-94 Robert R. Robertson 5-6-94

Read and Understood By

Signed Date Signed Date

PROJECT SURROGATE PREP. CLP - PEST-3/90

Continued From Page

PESTICIDE SURROGATE MIX
RESTEK LOT # A 002789 CATALOG # 32000
DATE MADE 7/9/93 IN ACETONE

	UG/ML		STOCK UG/ML		SURROGATE SPIKE UG/ML
TCX	200.	0.5 ML →	2.	20. ML →	0.2
DCBP	200.	50. ML ACETONE	2.	200. ML ACETONE	0.2

ACETONE USED IS LOT # BH059 B+J BRAND.

VIC BAUER REMADE SURROGATE SPIKE AS ABOVE ON 5-9-94
USED ACETONE LOT # BH059 B+J BRAND. Robert R. Robertson 5/6/94

Continued on Page

Nick J. Bauer 4-26-94 Read and Understood By Robert R. Robertson 5/6/94

Signed Date Signed Date

Notebook No. 8.54 77

PROJECT PCB GC Standards

Continued From Page

Aroclor 1254 FIII - Chem Service Lot 41-29A 100%

Amount	Volume	Solvent	Conc
25.0 mg	25.0 ml	Hexane BF098	1000 µg/ml

Aroclor 1248 - Chem Service FIIO Lot 52-83A 100%

25.0 mg	25.0 ml	Hexane	1000 µg/ml

Aroclor 1242 Chem Service FIO9 Lot 26-28D 100%

25.0 mg	25.0 ml	Hexane	1000 µg/ml

Aroclor 1221 - Restek Corp Cat# 32007 Lot # A001527
1000 µg/ml in hexane

Amount	Volume	Solvent	Conc.
0.5 ml	50.0 ml	Hexane BF098	10,000 µg/ml

Aroclor 1232 - Restek Corp Cat# 32008 Lot # A001620

0.5 ml	50.0 ml	Hexane	10,000 µg/ml

Aroclor 1254 . 1000 µg/ml	0.5 ml	50 ml	Hexane	10,000 µg/ml
Aroclor 1248 . 1000 µg/ml	0.5 ml	50 ml	Hexane	10,000 µg/ml
Aroclor 1242 . 1000 µg/ml	0.5 ml	50 ml	Hexane	10,000 µg/ml

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
Robert R. Robert	8/29/97	[illegible]	8/29/97

PROJECT Spike standards - PCB

Continued From Page

Aroclor 1016 - Chem Service F107 Lot 62136C 100%

Amount	Volume	Solvent	Conc.
25.0 mg	25.0 ml	Acetone	1000 µg/ml

Aroclor 1260 - Chem Service F112 Lot 40-32C

25.0 mg	25.0 ml	Acetone	1000 µg/ml

Continued on Page

Robert R. Robertson 8-29-93 Read and Understood By

Signed Date Signed Date 8/29/93

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PROJECT PCB-1060 Spike Standard

Notebook No. 854

Continued From Page

Source Robertson 854/79

	Conc	Amount	Volume	Solvent	Conc
PCB-1016	1000 ug/ml	2.5 ml	25 ml	Acetone	100 ug/ml
PCB-1260	1000 ug/ml	2.5 ml		BF502	

Spike Standard — Use 1 ml

	Amount	Volume	Solvent	Conc
PCB-1060 · 100 ug/ml	3 ml	100 ml	Acetone KP502	300 ug/ml

Continued on Page

Robert R. Robertson 9-7-93 Read and Understood By Nancy J. Zyla 9-7-93

Signed Date Signed Date

PROJECT OCP PRIMARY STOCKS

Notebook No. 933

Continued From Page

1) AHBHC	A) Chem Serv	LOT: 112-86A 98%	B) CHEM SERV	LOT 45-85B	98%
A)	.025 g	→ 25 ml Hexane	= 1,000 µg/ml		
B)	.025 g	→ 25 ml Hexane	= 1,000 µg/ml		
2) LINDANE	A) Chem Serv	99.5% Lot: 89-83B	.025g → 25 ml Hex	= 1,000 µg/ml	
	B) Chem Serv	99.0% Lot: 20-42D	.025g → 25 ml Hex	= 1000 µg/ml	
	C) Chem Serv	99.5% Lot: 84-138B	.025g → 25 ml ACE	= 1000 µg/ml	
3) Δ-BHC	A) Chem Serv	98% Lot: 126-97A	.025g → 25 ml Hex	= 1,000 µg/ml	
	B) EPA	99.6% Lot K 800	.025g → 25 ml Hex	= 1,000 µg/ml	
4) HEPTACHLOR	A) Chem Serv	99.5% Lot: 85-136B	.025g → 25 ml Hex	= 1000 µg/ml	
	B) EPA	99.8% LOT: E06H	.025g → 25 ml Hex	= 1000 µg/ml	
	C) CHEM SERV	99.5% LOT 85-138B	.025g → 25 ml ACE	= 1,000 µg/ml	
5) B-BHC	A) CHEM SERV	96.0 Lot 92-76A	.025g → 25 ml Hex	= 1,000 µg/ml	
	B) "	" "	.025g → 25 ml Hex	= 1,000 µg/ml	
6) ALDRIN	A) SARM	99.8 LOT: A379	.025g → 25 ml Hex	= 1,000 µg/ml	
	B) EPA	99% LOT: A501	.025g → 25 ml Hex	= 1,000 µg/ml	
	C) SARM	99.8% LOT: A379	.025g → 25 ml ACE	= 1,000 µg/ml	

Continued on Page

Joe Keatinge Signed — April 5, 1994 Date — Read and Understood By: Mark Mathes Signed — 4/14/94 Date

Notebook No. 933

PROJECT OCP Primary Stocks

Continued From Page

7) ISODRIN	A) SARM	99.8%	LOT: A403	.025g →	25 ml	HEX =	1,000 µg/ml
	B) EPA	99.3%	LOT: E040	.025g →	25 ml	HEX =	1,000 µg/ml
	C) SARM	99.8%	LOT: A403	.025g →	25 ml	ACE =	1,000 µg/ml
8) KEPTACHLOR EPOXIDE	A) CHEM SERV	99.0%	LOT: B3-100A	.025g →	25 ml	HEX =	1,000 µg/ml
	B) CHEM SERV	99%	LOT: 1H-14	.025g →	25 ml	HEX =	1,000 µg/ml
9) ENDOSULFAN-A	A) CHEM SERV	99.5%	LOT: 96-62A	.025g →	25 ml	HEX =	1,000 µg/ml
	B) EPA	99.8%	LOT: C09E	.025g →	25 ml	HEX =	1,000 µg/ml
	C) CHEM SERV	99.5%	LOT: 96-62A	.025g →	25 ml	ACE =	1,000 µg/ml
10) PP-DDE	A) CHEM SERV	99.0%	LOT: 105-62A	.025g →	25 ml	HEX =	1,000 µg/ml
	B) CHEM SERV	99.3%	LOT: 23-27E	.025g →	25 ml	HEX =	1,000 µg/ml
11) DIELDRIN	A) SARM	99.7%	LOT: A401	.025g →	25 ml	HEX =	1,000 µg/ml
	B) EPA	99.5%	LOT: A046	.025g →	25 ml	HEX =	1,000 µg/ml
	C) SARM	99.7%	LOT: A401	.025g →	25 ml	ACE =	1,000 µg/ml
12) ENDRIN	A) SARM	99.6%	LOT: A402	.025g →	25 ml	HEX =	1,000 µg/ml
	B) CHEM SERV	99%	LOT: 100-78A	.025g →	25 ml	HEX =	1,000 µg/ml
	C) ~~CHEM SERV~~ SARM	99.6%	LOT: A402	.025g →	25 ml	ACE =	1,000 µg/ml
13) PP-DDD	A) SARM	99.4%	LOT: A410	.025g →	25 ml	HEX =	1,000 µg/ml
	B) CHEM SERV	90%	LOT: 19-13A	.025g →	25 ml	HEX =	1,000 µg/ml

Continued on Page

Read and Understood By

Joe Mathews — Signed — April 5, 1994 — Date

Signed — 4/14/94 — Date

Notebook No. 933

PROJECT OCP Primary Stocks

Continued From Page

14)	ENDOSULFAN B	A)	Chem Serv	99%	LOT: 114-116A	.025g	→ 25 ml Hex	=	1,000 µg/ml
		B)	Chem Serv	99%	LOT 96-63A	.025g	→ 25 ml Hex	=	1,000 µg/ml
		C)	Chem Serv	99%	LOT: 114-116A	.025g	→ 25 ml ACE	=	1,000 µg/ml
15)	PP-DDT	A)	SARM	98.1%	LOT: A400	.025g	→ 25 ml Hex	=	1,000 µg/ml
		B)	CHEM SERV	99%	LOT: 114-57A	.025g	→ 25 ml Hex	=	1,000 µg/ml
		C)	SARM	98.1%	LOT: A400	.025g	→ 25 ml ACE	=	1,000 µg/ml
16)	ENDRIN ALDEHYDE	A)	AXACT	99%	LOT: 15737	.025g	→ 25 ml HEX	=	1,000 µg/ml
		B)	Acustd	99+	LOT MU-[illegible]	.025g	→ 25 ml Hex	=	1,000 µg/ml
17)	ENDOSULFAN SO4	A)	SARM	98.6%	LOT: A495	.025g	→ 25 ml Hex	=	1,000 µg/ml
		B)	CHEM SERV	98%	LOT: 30-95B	.025g	→ 25 ml Hex	=	1,000 µg/ml
18)	METHOXYCLOR	A)	CHEM SERV	98%	LOT: 83-43A	.025g	→ 25 ml Hex	=	1,000 µg/ml
		B)	CHEM SERV	99%	LOT 30-90	.025g	→ 25 ml Hex	=	1,000 µg/ml
		C)	CHEM SERV	99%	LOT: 83-43A	.025g	→ 25 ml ACE	=	1,000 µg/ml
19)	ENDRIN KETONE	A)	AXACT	98%	LOT: 15740	.025g	→ 25 ml Hex	=	1,000 µg/ml
		B)	EPA	95.1%	LOT CDAL	.010g	→ 10 ml Hex	=	1,000 µg/ml
20)	TCX	A)	Aldrich	95.9%	KY: 00532181	.025g	→ 25 ml Hex	=	1,000 µg/ml
		B)	"	"	"	.025g	→ 25 ml Hex	=	1,000 µg/ml

Continued on Page

Read and Understood By

Joe Kostichuk — Signed — April 5, 1994 — Date

[illegible] — Signed — 4/14/94 — Date

9513555.1583

Organochlorine Pesticides
& PCBs
Sample EA01-4-14 (ESE# CDMHNSS*36)

9513355.1584

SDG NARRATIVE

SDG No.: 49216
Pesticides/PCBs

1. The USEPA contract laboratory program statement of work for organics analysis dated 3/90 revision OLM01.8 was followed.

2. The following codes are used on the data report:
   NC = Not Confirmed by the other column.
   BDL = Below Detection Limit.

3. The turbochrom data system switched files 998a070.raw and 998b070.raw. Corrections are made on the data reports.

4. The blank was comtaminated with 4,4'-DDT during the extraction.

9513355.1586

PESTICIDES & PCBs

9513355.1587

QC SUMMARY

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK1	70	86	98	101			0
02	A0104014	91	110	102	102			0
03	A0104014DL	87	106	112	116			0
04	AA0104014M	86	103	96	99			0
05	A0104014MS	86	112	99	96			0
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60 -150)
DCB = Decachlorobiphenyl	(60 -150)

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

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No.: SDG No.: 49216

Matrix Spike - EPA Sample No.: A0104014

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	18	0.0	17	94	46-127
Heptachlor	18	0.0	16	89	35-130
Aldrin	18	0.0	15	83	34-132
Dieldrin	35	8.3	50	119	31-134
Endrin	35	0.0	35	100	42-139
4,4'-DDT	35	230	180	-143 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
gamma-BHC (Lindane)	18	17	94	0	50	46-127
Heptachlor	18	16	89	0	31	35-130
Aldrin	18	14	78	6	43	34-132
Dieldrin	35	41	93	25	38	31-134
Endrin	35	34	97	3	45	42-139
4,4'-DDT	35	160	-200 *	33	50	23-134

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: 2 out of 12 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Lab Sample ID: MB*QC*1 Lab File ID:

Matrix:(soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) Y Date Extracted: 05/14/94

Date Analyzed (1): 05/15/94 Date Analyzed (2): 05/15/94

Time Analyzed (1): 1525 Time Analyzed (2): 1602

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column (1): DB608 ID:.53 (mm) GC Column (2): DB1701 ID:.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	A0104014	CDMHNSS*36	05/15/94	05/15/94
02	A0104014DL	CDMHNSS*36	05/15/94	05/15/94
03	AA0104014MS	SPM1*CDMHNSS*	05/15/94	05/15/94
04	A0104014MSD	SPM2*CDMHNSS*	05/15/94	05/15/94
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

95133355.1591

SAMPLE DATA

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0104014

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Matrix: (soil/water) SOIL Lab Sample ID: CDMHNSS*36

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

% Moisture: 5 decanted: (Y/N) Y Date Received: 05/15/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/14/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/15/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	8.3	
72-55-9	4,4'-DDE	17.	
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	4.8	P
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	230.	P
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.5	U
742-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5566-34-7	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	70.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	35.	U
11096-82-5	Aroclor-1260	35.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0104014DL

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Matrix: (soil/water) SOIL Lab Sample ID: CDMHNSS*36

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

% Moisture: 5 decanted: (Y/N) Y Date Received: 05/15/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/14/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/15/94

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	35.	UD
319-85-7	beta-BHC	35.	UD
319-86-8	delta-BHC	35.	UD
58-89-9	gamma-BHC (Lindane)	35.	UD
76-44-8	Heptachlor	35.	UD
309-00-2	Aldrin	35.	UD
1024-57-3	Heptachlor epoxide	35.	UD
959-98-8	Endosulfan I	35.	UD
60-57-1	Dieldrin	70.	UD
72-55-9	4,4'-DDE	70.	UD
72-20-8	Endrin	70.	UD
33213-65-9	Endosulfan II	70.	UD
72-54-8	4,4'-DDD	70.	UD
1031-07-8	Endosulfan sulfate	70.	UD
50-29-3	4,4'-DDT	180.	D
72-43-5	Methoxychlor	350.	UD
53494-70-5	Endrin ketone	70.	UD
742-93-4	Endrin aldehyde	70.	UD
5103-71-9	alpha-Chlordane	35.	UD
5566-34-7	gamma-Chlordane	35.	UD
8001-35-2	Toxaphene	3500.	UD
12674-11-2	Aroclor-1016	700.	UD
11104-28-2	Aroclor-1221	1400.	UD
11141-16-5	Aroclor-1232	700.	UD
53469-21-9	Aroclor-1242	700.	UD
12672-29-6	Aroclor-1248	700.	UD
11097-69-1	Aroclor-1254	700.	UD
11096-82-5	Aroclor-1260	700.	UD

9513355.1594

Software Version: 4.0<1C29>
Sample Name : CDMHNSS*36 5-14-94 Time : 5/16/94 09:05 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/15/94 04:02 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A102.RAW
Result File : C:\TC4\HP58909\998A102.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A102.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A102.RST
Calib Method : C:\TC4\HP58909\998A from C:\TC4\HP58909\998A102.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 6016.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 43

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	4.721		6969	B	892	-------
4	5.310	TCX	166117	V	48709	-0.1292
5	5.672		28832	B	5738	-------
7	6.433		34816	B	9214	-------
8	6.811		17479	B	2844	-------
11	8.262		7828	V	555	-------
14	9.372		9567	B	1404	-------
15	10.292		6127	B	377	-------
20	14.326	ENDOSULFAN A	26395	B	4181	0.5411
22	15.254	P,P'-DDE	181924	*B	32791	-0.1019
23	15.432	DIELDRIN	93415	*V	15877	-0.1036
25	16.177		15625	B	2759	-------

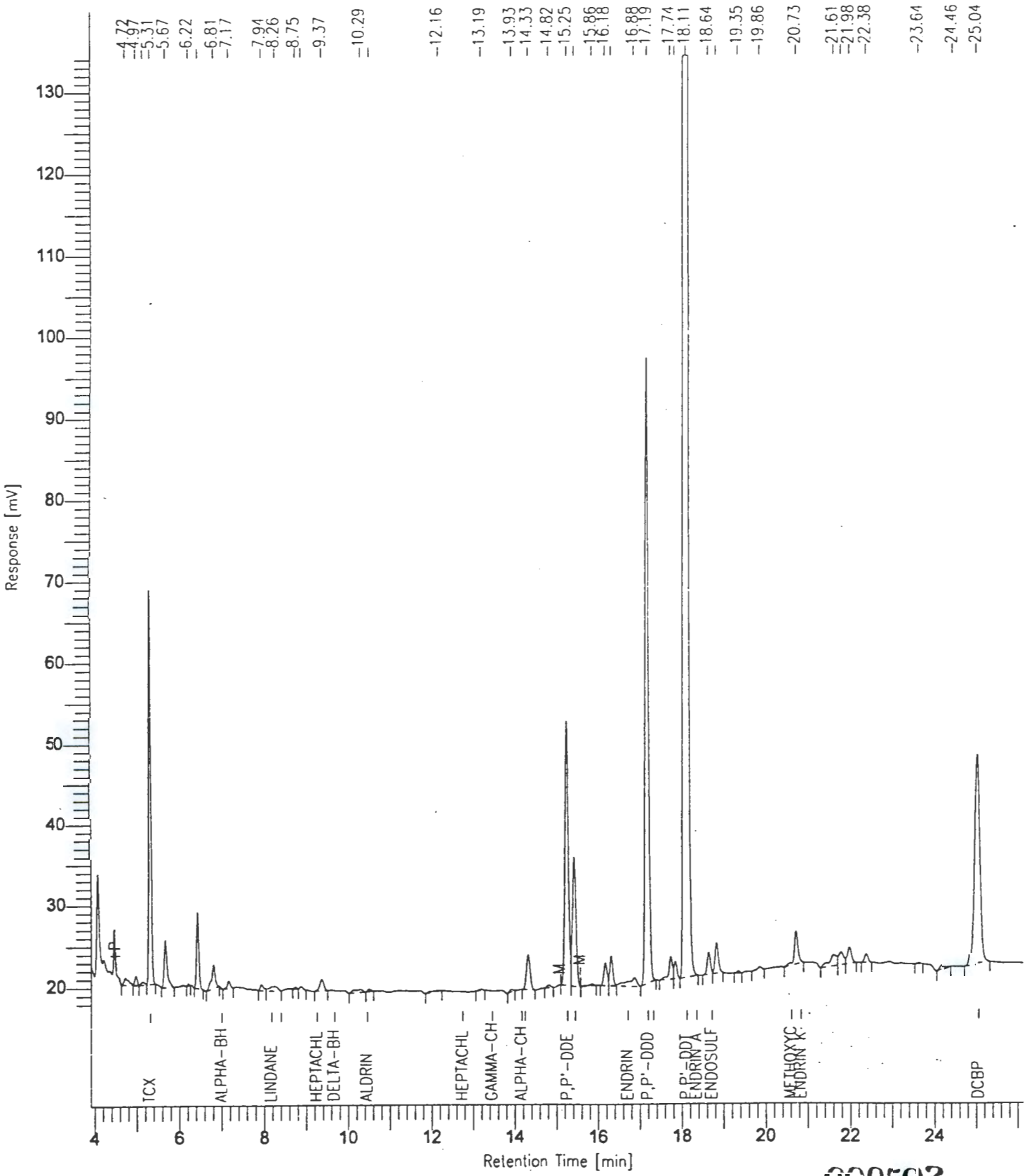
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
26	16.321		18537	V	3582	-------
27	16.875		16330	V	1045	-------
28	17.187	P,P'-DDD	409061	B	77297	-0.0741
29	17.741		16625	B	2725	-------
30	17.849		9921	V	2110	-------
31	18.110	P,P'-DDT	3281474	B	632520	-0.0522
32	18.644	ENDOSULFAN SULFATE	14257	B	2646	-0.3984
33	18.831		20650	V	3650	-------
36	20.727	ENDRIN KETONE	24860	B	3983	-0.5456
37	21.611		16974	B	1357	-------
38	21.786		12663	V	1543	-------
39	21.984		13359	V	1953	-------
43	25.039	DCBP	225340	B	25816	-0.0811
			4675145		885566	

9513355.1596

Chromatogram

Sample Name : CDMHNSS*36 5-14-94
FileName : C:\TC4\HP58909\998A102.RAW
Method :
Start Time : 3.91 min End Time : 26.15 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/16/94 09:05 PM
Time of Injection: 5/15/94 04:02 PM
Low Point : 17.05 mV High Point : 134.27 mV
Plot Scale: 117.2 mV



000502

9513355.1597

Software Version: 4.0<1C29>
Sample Name : CDMHNSS*36 1:20 5-14-94 Time : 5/16/94 09:08 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/15/94 06:29 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A106.RAW
Result File : C:\TC4\HP58909\998A106.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A106.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A106.RST
Calib Method : C:\TC4\HP58909\998A from C:\TC4\HP58909\998A106.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 6016.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 20

DATA REPORT

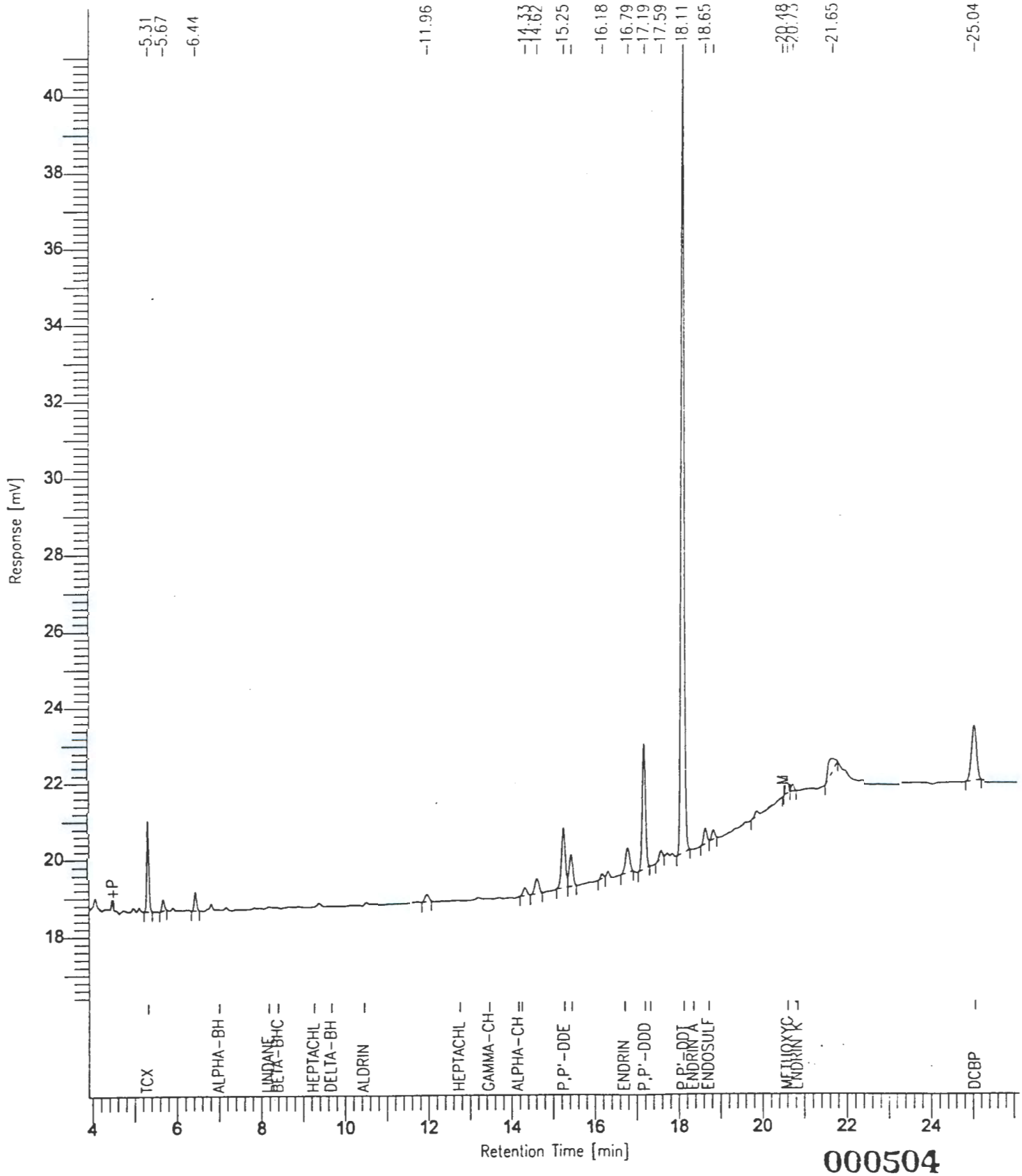
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.311	TCX	7972	B	2387	-0.1165
7	15.252	P,P'-DDE	9836	B	1579	-0.1182
11	17.186	P,P'-DDD	17700	B	3325	-0.0840
13	18.108	P,P'-DDT	102756	B	20981	-0.0624
20	25.036	DCBP	12323	B	1454	-0.0926
			150588		29726	

9513355.1598

Chromatogram

Sample Name : CDMHNSS*36 1:20 5-14-94
FileName : C:\TC4\HP58909\998A106.RAW
Method :
Start Time : 3.91 min End Time : 26.13 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #:
Date : 5/16/94 09:08 PM
Time of Injection: 5/15/94 06:29 PM
Low Point : 16.27 mV High Point : 41.06 mV
Plot Scale: 24.8 mV



000504

9513355.1599

Software Version: 4.0<1C29>
Sample Name : CDMHNSS*36 5-14-94 Time : 5/16/94 09:28 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/15/94 04:39 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998B103.RAW
Result File : C:\TC4\HP58909\998B103.RST
Inst Method : HP58909 from C:\TC4\HP58909\998B103.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\998B103.RST
Calib Method : C:\TC4\HP58909\998B from C:\TC4\HP58909\998B103.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 9593.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 52

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	3.166		48919	B	17190	-------
2	3.234		123997	V	43268	-------
6	3.697	TCX	411383	V	132747	-0.0950
7	3.842		45408	V	15110	-------
10	4.149		19288	B	4836	-------
12	4.495		60369	B	21498	-------
13	4.826		19452	B	4414	-------
15	5.167		35573	*B	10493	-------
17	5.651		28989	*V	6584	-------
19	6.474		25582	B	1629	-------
21	7.789		19824	B	1845	-------
22	8.302		46533	B	8721	-------

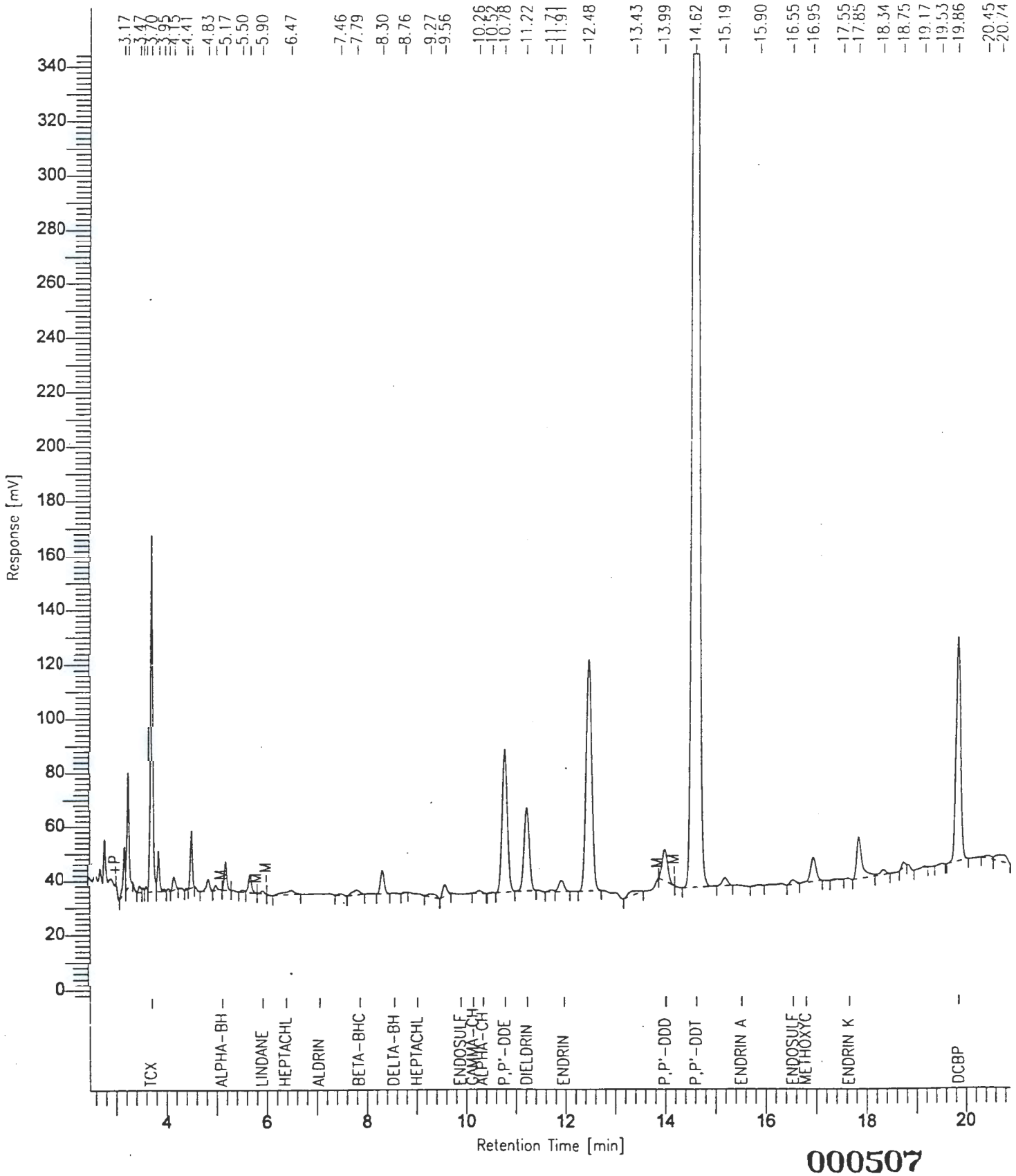
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
24	9.268		14152	B	1037	-------
25	9.564		25500	B	4235	-------
28	10.775	P,P'-DDE	389410	B	53313	-0.0659
29	11.215	DIELDRIN	229198	V	31039	-0.1225
31	11.912	ENDRIN NC	32356	V	4115	-0.4997
32	12.476		696384	B	85766	-------
33	13.428		21600	B	1044	-------
34	13.992	P,P'-DDD	86447	*B	11719	-0.0846
35	14.616	P,P'-DDT	5293390	B	668892	-0.0529
36	15.192		23167	V	2980	-------
38	16.545	ENDOSULFAN SULFATE BPL	12985	B	1697	-0.0093
39	16.951		68689	V	8904	-------
41	17.852		119268	B	15608	-------
42	18.343		15158	V	1844	-------
46	19.855	DCBP	526400	B	83269	-0.0435
47	20.454		10710	B	1108	-------
48	20.742		37706	V	2543	-------
49	21.073		34494	B	3479	-------
51	24.638		14922	B	1349	-------
52	27.853		54434	B	3783	-------
			8591687		1256056	

9513355.1601

Chromatogram

Sample Name : CDMHNSS*36 5-14-94
FileName : C:\TC4\HP58909\998B103.RAW
Method :
Start Time : 2.47 min End Time : 20.91 min
Scale Factor: 0.0 Plot Offset: -3 mV

Sample #:
Date : 5/16/94 09:28 PM
Time of Injection: 5/15/94 04:39 PM
Low Point : -2.95 mV High Point : 344.34 mV
Plot Scale: 347.3 mV



000507

Software Version: 4.0<1C29>
Sample Name : CDMHNSS*36 1:20 5-14-94 Time : 5/16/94 09:31 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/15/94 07:06 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998B107.RAW
Result File : C:\TC4\HP58909\998B107.RST
Inst Method : HP58909 from C:\TC4\HP58909\998B107.RST
Proc Method : C:\TC4\HP58909\DB1701 from C:\TC4\HP58909\998B107.RST
Calib Method : C:\TC4\HP58909\998B from C:\TC4\HP58909\998B107.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 9593.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 33 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 19

DATA REPORT

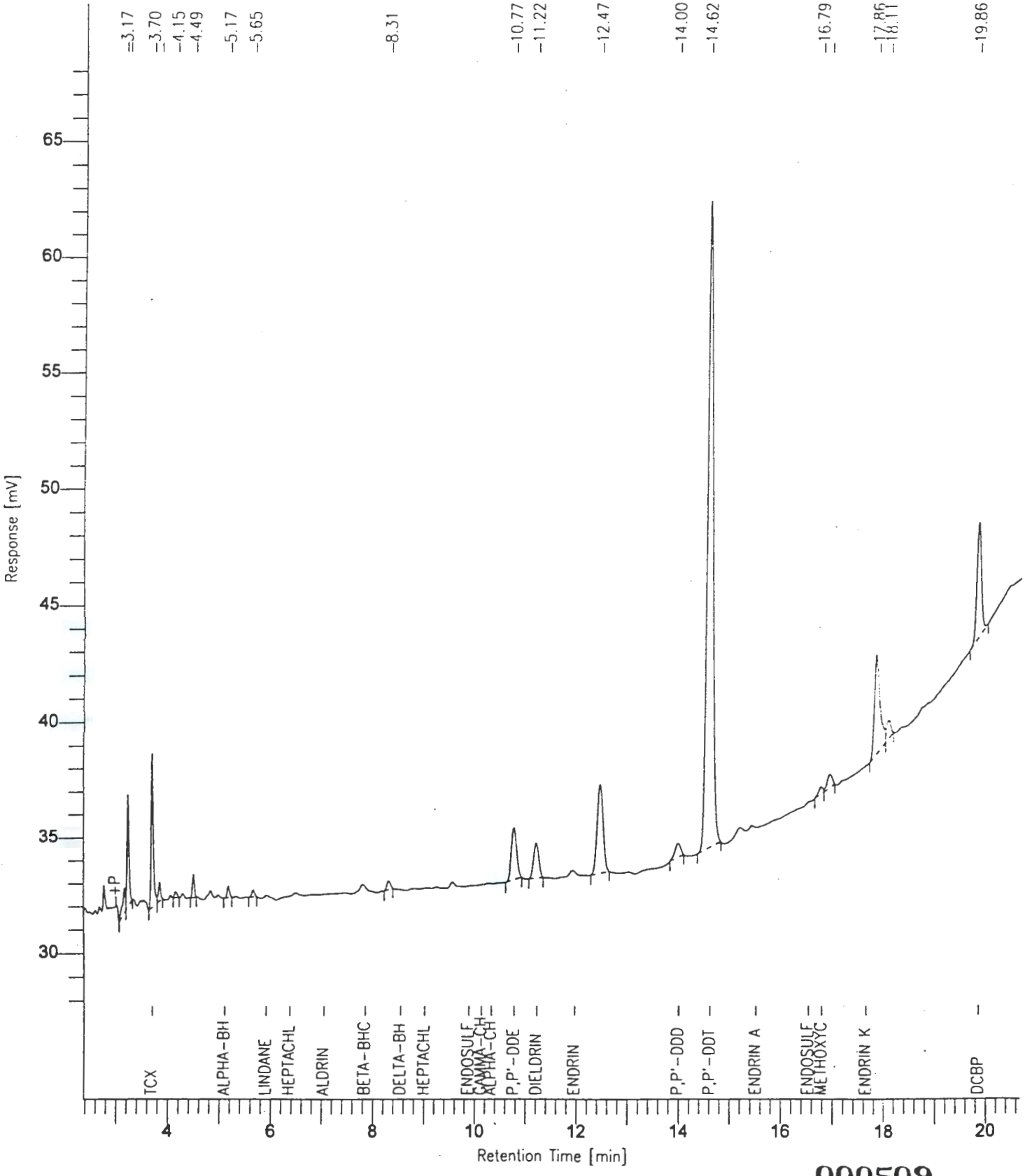
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
2	3.233		13296	V	4901	-------
3	3.698	TCX	19850	B	6753	-0.0827
10	10.773	P,P'-DDE BDL	17071	B	2284	-0.0830
11	11.216	DIELDRIN BDL	11005	B	1546	-0.1165
12	12.471		31881	B	3888	-------
14	14.615	P,P'-DDT	211976	B	27929	-0.0646
17	17.861		33275	B	4271	-------
19	19.855	DCBP	30111	B	4980	-0.0442
			368465		56551	

9513355.1603

Chromatogram

Sample Name : CDMHNSS*36 1:20 5-14-94
FileName : C:\TC4\HP58909\998B107.RAW
Method :
Start Time : 2.38 min End Time : 20.69 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #:
Date : 5/16/94 09:31 PM
Time of Injection: 5/15/94 07:06 PM
Low Point : 27.78 mV High Point : 68.84 mV
Plot Scale: 41.1 mV



000509

9513355.1604

STANDARDS DATA

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 05/13/94 05/13/94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	7.01	7.01	7.01	7.01	6.96	7.06
beta-BHC	8.40	8.40	8.40	8.40	8.35	8.45
delta-BHC	9.67	9.67	9.67	9.67	9.62	9.72
gamma-BHC (Lindane)	8.18	8.18	8.18	8.18	8.13	8.23
Heptachlor	9.26	9.26	9.26	9.26	9.21	9.31
Aldrin	10.45	10.46	10.46	10.46	10.41	10.51
Heptachlor epoxide	12.75	12.75	12.75	12.75	12.68	12.82
Endosulfan I	14.25	14.25	14.25	14.25	14.18	14.32
Dieldrin	15.45	15.45	15.45	15.45	15.38	15.52
4,4'-DDE	15.27	15.27	15.27	15.27	15.20	15.34
Endrin	16.71	16.72	16.72	16.71	16.64	16.78
Endosulfan II	17.32	17.32	17.33	17.32	17.25	17.39
4,4'-DDD	17.20	17.20	17.20	17.20	17.13	17.27
Endosulfan sulfate	18.72	18.72	18.72	18.72	18.65	18.79
4,4'-DDT	18.12	18.12	18.12	18.12	18.05	18.19
Methoxychlor	20.61	20.61	20.61	20.61	20.54	20.68
Endrin ketone	20.84	20.84	20.84	20.84	20.77	20.91
Endrin aldehyde	18.35	18.35	18.36	18.35	18.28	18.42
alpha-Chlordane	14.17	14.17	14.17	14.17	14.10	14.24
gamma-Chlordane	13.46	13.46	13.46	13.46	13.39	13.53
Tetrachloro-m-xylene	5.32	5.32	5.32	5.32	5.27	5.37
Decachlorobiphenyl	25.06	25.06	25.06	25.06	24.96	25.16

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB1701 ID: .53 (mm) Date(s) Analyzed: 05/13/94 05/13/94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	5.11	5.11	5.11	5.11	5.06	5.16
beta-BHC	7.85	7.85	7.85	7.85	7.80	7.90
delta-BHC	8.55	8.55	8.55	8.55	8.50	8.60
gamma-BHC (Lindane)	5.91	5.91	5.91	5.91	5.86	5.96
Heptachlor	6.37	6.38	6.38	6.37	6.32	6.42
Aldrin	7.04	7.05	7.05	7.05	7.00	7.10
Heptachlor epoxide	9.02	9.02	9.02	9.02	8.95	9.09
Endosulfan I	9.89	9.89	9.89	9.89	9.82	9.96
Dieldrin	11.23	11.23	11.23	11.23	11.16	11.30
4,4'-DDE	10.78	10.78	10.79	10.78	10.71	10.85
Endrin	11.97	11.97	11.97	11.97	11.90	12.04
Endosulfan II	14.02	14.02	14.02	14.02	13.95	14.09
4,4'-DDD	14.01	14.01	14.01	14.01	13.94	14.08
Endosulfan sulfate	16.55	16.55	16.55	16.55	16.48	16.62
4,4'-DDT	14.62	14.62	14.63	14.62	14.55	14.69
Methoxychlor	16.80	16.80	16.80	16.80	16.73	16.87
Endrin ketone	17.66	17.66	17.66	17.66	17.59	17.73
Endrin aldehyde	15.52	15.52	15.53	15.52	15.45	15.59
alpha-Chlordane	10.33	10.33	10.34	10.34	10.27	10.41
gamma-Chlordane	10.14	10.14	10.14	10.14	10.07	10.21
Tetrachloro-m-xylene	3.70	3.70	3.70	3.70	3.65	3.75
Decachlorobiphenyl	19.86	19.86	19.86	19.86	19.76	19.96

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB608 ID: .53 (mm) Date(s) Analyzed: 05/13/94 05/13/94

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	3637600	3773200	4826788	4079196	16.0
beta-BHC	2662800	2785050	2936375	2794742	4.9
delta-BHC	3171000	3344100	3958400	3491167	11.9
gamma-BHC (Lindane)	3823200	3906900	4762400	4164167	12.5
Heptachlor	6019200	5700700	6092188	5937363	3.5
Aldrin	4084800	4159500	5032175	4425492	11.9
Heptachlor epoxide	4669600	4605000	4904813	4726471	3.3
Endosulfan I	4173600	3985800	4243188	4134196	3.2
Dieldrin	3862400	3945850	5170081	4326110	16.9
4,4'-DDE	3498400	3822075	5115888	4145454	20.6
Endrin	3422600	3565925	4701213	3896579	18.0
Endosulfan II	3607200	3692125	4137844	3812390	7.5
4,4'-DDD	2786400	2938625	3725900	3150308	16.0
Endosulfan sulfate	3942000	4079250	4675831	4232360	9.2
4,4'-DDT	3559400	3842850	4986550	4129600	18.3
Methoxychlor	2955840	3209140	3333243	3166074	6.1
Endrin ketone	3682600	4045950	4640294	4122948	11.7
Endrin aldehyde	3082700	3129750	3215438	3142629	2.1
alpha-Chlordane	5304200	5440100	5871925	5538742	5.4
gamma-Chlordane	5531600	5497850	5693075	5574175	1.9
Tetrachloro-m-xylene	4438000	4579700	5190275	4735992	8.4
Decachlorobiphenyl	5798600	5511800	5736238	5682213	2.7

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Instrument ID: HP58909 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB1701 ID: .53 (mm) Date(s) Analyzed: 05/13/94 05/13/94

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	8468800	9646750	12341550	10152367	19.6
beta-BHC	6489600	6288300	6541763	6439888	2.1
delta-BHC	7824000	8524300	11046300	9131533	18.6
gamma-BHC (Lindane)	8943400	9902800	12052238	10299479	15.5
Heptachlor	14060600	13222550	13375575	13552908	3.3
Aldrin	9444000	9740300	11189388	10124563	9.2
Heptachlor epoxide	11803800	11355400	11683013	11614071	2.0
Endosulfan I	10806400	10288300	10560050	10551583	2.5
Dieldrin	9612400	9656875	10938581	10069285	7.5
4,4'-DDE	7858600	8248525	9924869	8677331	12.7
Endrin	9289800	9334250	10474013	9699354	6.9
Endosulfan II	10158000	10025300	10431850	10205050	2.0
4,4'-DDD	6123400	6369100	7852725	6781742	13.8
Endosulfan sulfate	8970700	8855450	9200338	9008829	1.9
4,4'-DDT	7752000	8100825	9416406	8423077	10.4
Methoxychlor	5818200	5602745	4995275	5472073	7.8
Endrin ketone	8592600	9404725	10223775	9407033	8.7
Endrin aldehyde	6298100	7455200	7183913	6979071	8.7
alpha-Chlordane	12552200	12155800	12217700	12308567	1.7
gamma-Chlordane	12644200	12131100	12250088	12341796	2.2
Tetrachloro-m-xylene	9617000	9346000	9128850	9363950	2.6
Decachlorobiphenyl	14091100	12959050	11581469	12877206	9.8

* Surrogate calibration factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Instrument ID: HP58909 Date(s) Analyzed: 05/12/94 05/12/94

GC Column: DB608 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	17.41	17.34	17.48	175374
		*2	19.78	19.71	19.85	176724
		*3	19.95	19.88	20.02	202266
		4				
		5				
Aroclor 1016	0.10	*1	6.90	6.83	6.97	138570
		*2	8.12	8.05	8.19	341820
		*3	9.32	9.25	9.39	520340
		4				
		5				
Aroclor 1221	0.20	*1	4.77	4.70	4.84	83590
		*2	6.32	6.25	6.39	60165
		*3	6.90	6.83	6.97	160035
		4				
		5				
Aroclor 1232	0.10	*1	6.90	6.83	6.97	147200
		*2	8.12	8.05	8.19	161980
		*3	9.32	9.25	9.39	218820
		4				
		5				
Aroclor 1242	0.10	*1	6.90	6.83	6.97	127100
		*2	8.12	8.05	8.19	275610
		*3	9.32	9.25	9.39	404410
		4				
		5				
Aroclor 1248	0.10	*1	9.31	9.24	9.38	259520
		*2	11.79	11.72	11.86	259960
		*3	14.35	14.28	14.42	186720
		4				
		5				
Aroclor 1254	0.10	*1	13.79	13.72	13.86	384250
		*2	15.81	15.74	15.88	430550
		*3	18.08	18.01	18.15	321850
		4				
		5				
Aroclor 1260	0.10	*1	16.72	16.65	16.79	429470
		*2	18.18	18.11	18.25	281070
		*3	19.60	19.53	19.67	571320
		4				
		5				

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Instrument ID: HP58909 Date(s) Analyzed: 05/13/94 05/12/94

GC Column: DB1701 ID: .53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	13.83	13.76	13.90	320824
		*2	14.83	14.76	14.90	508086
		*3	16.30	16.23	16.37	501142
		4				
		5				
Aroclor 1016	0.10	*1	5.24	5.17	5.31	559740
		*2	6.19	6.12	6.26	1048400
		*3	7.03	6.96	7.10	773270
		4				
		5				
Aroclor 1221	0.20	*1	3.24	3.17	3.31	203830
		*2	4.23	4.16	4.30	95935
		*3	4.57	4.50	4.64	301905
		4				
		5				
Aroclor 1232	0.10	*1	4.57	4.50	4.64	292580
		*2	5.24	5.17	5.31	269060
		*3	6.19	6.12	6.26	452940
		4				
		5				
Aroclor 1242	0.10	*1	5.24	5.17	5.31	450440
		*2	6.19	6.12	6.26	820370
		*3	7.03	6.96	7.10	574890
		4				
		5				
Aroclor 1248	0.10	*1	6.19	6.12	6.26	537880
		*2	7.02	6.95	7.09	994230
		*3	8.86	8.79	8.93	1199180
		4				
		5				
Aroclor 1254	0.10	*1	8.83	8.76	8.90	932840
		*2	11.01	10.94	11.08	958920
		*3	13.92	13.85	13.99	933610
		4				
		5				
Aroclor 1260	0.10	*1	12.51	12.44	12.58	792680
		*2	15.21	15.14	15.28	519520
		*3	16.19	16.12	16.26	1273640
		4				
		5				

* Denotes required peaks

6G
PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC Column (1): DB608 ID: .53 (mm) Instrument ID (1): HP58909

EPA Sample No. (Standard 1): RESC11 Lab Sample ID (1): CK*RESC*1

Date Analyzed (1): 05/12/94 Time Analyzed (1): 1836

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.32	100
02	gamma-Chlordane	13.46	100
03	Endosulfan I	14.25	100
04	4,4'-DDE	15.27	82.3
05	Dieldrin	15.45	100
06	Endosulfan sulfate	18.72	100
07	Methoxychlor	20.61	98.6
08	Endrin ketone	20.84	100
09	Decachlorobiphenyl	25.06	

GC column (2): DB1701 ID:.53 (mm) Instrument Id (2): HP58909

EPA Sample No. (Standard 2): RESC21 Lab sample ID (2): CK*RESC*1

Date Analyzed (2): 05/12/94 Time Analyzed (2): 1913

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.70	100
02	Endosulfan I	9.89	93.3
03	gamma-Chlordane	10.14	100
04	4,4'-DDE	10.78	100
05	Dieldrin	11.23	100
06	Endosulfan sulfate	16.55	92.5
07	Methoxychlor	16.80	100
08	Endrin ketone	17.66	100
09	Decachlorobiphenyl	19.86	

Resolution of two adjacent peaks must be calculated as a percentage of the height of the smaller peak, and must be greater than or equal to 60.0%.

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 05/12/94 05/12/94

EPA Sample No. (PIBLK): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM): PEM11 Date Analyzed: 05/12/94

Lab Sample ID (PEM): CK*PEM*1 Time Analyzed: 1913

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.01	6.96	7.06	0.0099	0.010	1.0
beta-BHC	8.40	8.35	8.45	0.010	0.010	0.0
gamma-BHC (Lindane)	8.18	8.13	8.23	0.0098	0.010	2.0
Endrin	16.72	16.64	16.78	0.050	0.050	0.0
4,4'-DDT	18.12	18.05	18.19	0.12	0.10	20.0
Methoxychlor	20.61	20.54	20.68	0.25	0.25	0.0

4,4'-DDT % breakdown (1): 1.1 Endrin % breakdown (1): 5.5

Combined % breakdown (1): 6.6

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 05/12/94 05/12/94

EPA Sample No. (PIBLK): PIBLK11 Date Analyzed: 05/13/94

Lab Sample ID (PIBLK): MB*PIBLK*1 Time Analyzed: 0403

EPA Sample No. (PEM): PEM12 Date Analyzed: 05/13/94

Lab Sample ID (PEM): CK*PEM*2 Time Analyzed: 0441

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.01	6.96	7.06	0.0098	0.010	2.0
beta-BHC	8.40	8.35	8.45	0.010	0.010	0.0
gamma-BHC (Lindane)	8.18	8.13	8.23	0.0098	0.010	2.0
Endrin	16.71	16.64	16.78	0.048	0.050	4.0
4,4'-DDT	18.12	18.05	18.19	0.11	0.10	10.0
Methoxychlor	20.61	20.54	20.68	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 1.2 Endrin % breakdown (1): 6.2

Combined % breakdown (1): 7.4

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 05/12/94 05/12/94

EPA Sample No. (PIBLK): PIBLK13 Date Analyzed: 05/14/94

Lab Sample ID (PIBLK): MB*PIBLK*3 Time Analyzed: 0155

EPA Sample No. (PEM): PEM13 Date Analyzed: 05/14/94

Lab Sample ID (PEM): CK*PEM*3 Time Analyzed: 0237

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.01	6.96	7.06	0.0098	0.010	2.0
beta-BHC	8.40	8.35	8.45	0.010	0.010	0.0
gamma-BHC (Lindane)	8.18	8.13	8.23	0.0097	0.010	3.0
Endrin	16.72	16.64	16.78	0.048	0.050	4.0
4,4'-DDT	18.12	18.05	18.19	0.11	0.10	10.0
Methoxychlor	20.61	20.54	20.68	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 1.1 Endrin % breakdown (1): 4.5

Combined % breakdown (1): 5.6

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 05/12/94 05/12/94

EPA Sample No. (PIBLK): PIBLK15 Date Analyzed: 05/15/94

Lab Sample ID (PIBLK): MB*PIBLK*5 Time Analyzed: 0055

EPA Sample No. (PEM): PEM14 Date Analyzed: 05/15/94

Lab Sample ID (PEM): CK*PEM*4 Time Analyzed: 0132

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.01	6.96	7.06	0.0097	0.010	3.0
beta-BHC	8.41	8.35	8.45	0.010	0.010	0.0
gamma-BHC (Lindane)	8.18	8.13	8.23	0.0097	0.010	3.0
Endrin	16.72	16.64	16.78	0.048	0.050	4.0
4,4'-DDT	18.12	18.05	18.19	0.11	0.10	10.0
Methoxychlor	20.61	20.54	20.68	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 1.2 Endrin % breakdown (1): 4.5

Combined % breakdown (1): 5.7

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC column: DB608 ID: .53 (mm) Init. Calib.Date(s): 05/12/94 05/12/94

EPA Sample No. (PIBLK): PIBLK17 Date Analyzed: 05/15/94

Lab Sample ID (PIBLK): MB*PIBLK*7 Time Analyzed: 1716

EPA Sample No. (PEM): PEM15 Date Analyzed: 05/15/94

Lab Sample ID (PEM): CK*PEM*5 Time Analyzed: 1752

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.00	6.96	7.06	0.011	0.010	10.0
beta-BHC	8.39	8.35	8.45	0.010	0.010	0.0
gamma-BHC (Lindane)	8.17	8.13	8.23	0.0098	0.010	2.0
Endrin	16.70	16.64	16.78	0.048	0.050	4.0
4,4'-DDT	18.11	18.05	18.19	0.11	0.10	10.0
Methoxychlor	20.60	20.54	20.68	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 1.7 Endrin % breakdown (1): 5.8

Combined % breakdown (1): 7.5

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 05/13/94 05/13/94

EPA Sample No. (PIBLK): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM): PEM21 Date Analyzed: 05/12/94

Lab Sample ID (PEM): CK*PEM*1 Time Analyzed: 1951

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.11	5.06	5.16	0.0089	0.010	11.0
beta-BHC	7.85	7.80	7.90	0.010	0.010	0.0
gamma-BHC (Lindane)	5.91	5.86	5.96	0.0090	0.010	10.0
Endrin	11.97	11.90	12.04	0.047	0.050	6.0
4,4'-DDT	14.63	14.55	14.69	0.11	0.10	10.0
Methoxychlor	16.80	16.73	16.87	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 0.0 Endrin % breakdown (1): 4.1

Combined % breakdown (1): 4.1

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 05/13/94 05/13/94

EPA Sample No. (PIBLK): PIBLK11 Date Analyzed: 05/13/94

Lab Sample ID (PIBLK): MB*PIBLK*1 Time Analyzed: 0441

EPA Sample No. (PEM): PEM22 Date Analyzed: 05/13/94

Lab Sample ID (PEM): CK*PEM*2 Time Analyzed: 0519

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.11	5.06	5.16	0.0093	0.010	7.0
beta-BHC	7.85	7.80	7.90	0.011	0.010	10.0
gamma-BHC (Lindane)	5.91	5.86	5.96	0.0093	0.010	7.0
Endrin	11.97	11.90	12.04	0.048	0.050	4.0
4,4'-DDT	14.63	14.55	14.69	0.11	0.10	10.0
Methoxychlor	16.80	16.73	16.87	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 0.3 Endrin % breakdown (1): 4.0

Combined % breakdown (1): 4.3

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 05/13/94 05/13/94

EPA Sample No. (PIBLK): PIBLK13 Date Analyzed: 05/14/94

Lab Sample ID (PIBLK): MB*PIBLK*3 Time Analyzed: 0237

EPA Sample No. (PEM): PEM23 Date Analyzed: 05/14/94

Lab Sample ID (PEM): CK*PEM*3 Time Analyzed: 0320

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.11	5.06	5.16	0.0092	0.010	8.0
beta-BHC	7.85	7.80	7.90	0.010	0.010	0.0
gamma-BHC (Lindane)	5.91	5.86	5.96	0.0092	0.010	8.0
Endrin	11.98	11.90	12.04	0.046	0.050	8.0
4,4'-DDT	14.63	14.55	14.69	0.10	0.10	0.0
Methoxychlor	16.80	16.73	16.87	0.23	0.25	8.0

4,4'-DDT % breakdown (1): 0.5 Endrin % breakdown (1): 4.9

Combined % breakdown (1): 5.4

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 05/13/94 05/13/94

EPA Sample No. (PIBLK): PIBLK15 Date Analyzed: 05/15/94

Lab Sample ID (PIBLK): MB*PIBLK*5 Time Analyzed: 0132

EPA Sample No. (PEM): PEM24 Date Analyzed: 05/15/94

Lab Sample ID (PEM): CK*PEM*4 Time Analyzed: 0209

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.11	5.06	5.16	0.0089	0.010	11.0
beta-BHC	7.85	7.80	7.90	0.010	0.010	0.0
gamma-BHC (Lindane)	5.91	5.86	5.96	0.0091	0.010	9.0
Endrin	11.98	11.90	12.04	0.046	0.050	8.0
4,4'-DDT	14.63	14.55	14.69	0.10	0.10	0.0
Methoxychlor	16.81	16.73	16.87	0.23	0.25	8.0

4,4'-DDT % breakdown (1): 0.4 Endrin % breakdown (1): 3.8

Combined % breakdown (1): 4.2

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC column: DB1701 ID: .53 (mm) Init. Calib.Date(s): 05/13/94 05/13/94

EPA Sample No. (PIBLK): PIBLK17 Date Analyzed: 05/15/94

Lab Sample ID (PIBLK): MB*PIBLK*7 Time Analyzed: 1752

EPA Sample No. (PEM): PEM25 Date Analyzed: 05/15/94

Lab Sample ID (PEM): CK*PEM*5 Time Analyzed: 1829

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.10	5.06	5.16	0.0094	0.010	6.0
beta-BHC	7.84	7.80	7.90	0.011	0.010	10.0
gamma-BHC (Lindane)	5.90	5.86	5.96	0.0094	0.010	6.0
Endrin	11.96	11.90	12.04	0.048	0.050	4.0
4,4'-DDT	14.62	14.55	14.69	0.11	0.10	10.0
Methoxychlor	16.79	16.73	16.87	0.25	0.25	0.0

4,4'-DDT % breakdown (1): 0.4 Endrin % breakdown (1): 3.8

Combined % breakdown (1): 4.2

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 49216

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s) 05/12/94 05/12/94

EPA Sample No.(PIBLK): PIBLK12 Date Analyzed: 05/13/94

Lab Sample ID (PIBLK): MB*PIBLK*2 Time Analyzed: 1524

EPA Sample No.(INDA): INDAM12 Date Analyzed: 05/13/94

Lab Sample ID (INDA): CCS*INDAM*2 Time Analyzed: 1602

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.01	6.96	7.06	0.020	0.020	0.0
gamma-BHC (Lindane)	8.18	8.13	8.23	0.020	0.020	0.0
Heptachlor	9.27	9.21	9.31	0.020	0.020	0.0
Endosulfan I	14.25	14.18	14.32	0.020	0.020	0.0
Dieldrin	15.45	15.38	15.52	0.040	0.040	0.0
Endrin	16.72	16.64	16.78	0.040	0.040	0.0
4,4'-DDD	17.20	17.13	17.27	0.040	0.040	0.0
4,4'-DDT	18.12	18.05	18.19	0.040	0.040	0.0
Methoxychlor	20.61	20.54	20.68	0.20	0.20	0.0
Tetrachloro-m-xylene	5.32	5.27	5.37	0.020	0.020	0.0
Decachlorobiphenyl	25.06	24.96	25.16	0.039	0.040	2.5

EPA Sample No.(INDB): INDBM12 Date Analyzed : 05/13/94

Lab Sample ID (INDB): CCS*INDBM*2 Time Analyzed : 1645

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	8.41	8.35	8.45	0.019	0.020	5.0
delta-BHC	9.68	9.62	9.72	0.019	0.020	5.0
Aldrin	10.46	10.41	10.51	0.019	0.020	5.0
Heptachlor epoxide	12.75	12.68	12.82	0.019	0.020	5.0
4,4'-DDE	15.27	15.20	15.34	0.039	0.040	2.5
Endosulfan II	17.33	17.25	17.39	0.039	0.040	2.5
Endosulfan sulfate	18.72	18.65	18.79	0.039	0.040	2.5
Endrin ketone	20.84	20.77	20.91	0.038	0.040	5.0
Endrin aldehyde	18.36	18.28	18.42	0.038	0.040	5.0
alpha-Chlordane	14.17	14.10	14.24	0.019	0.020	5.0
gamma-Chlordane	13.46	13.39	13.53	0.019	0.020	5.0
Tetrachloro-m-xylene	5.32	5.27	5.37	0.020	0.020	0.0
Decachlorobiphenyl	25.06	24.96	25.16	0.039	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 49216

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s) 05/12/94 05/12/94

EPA Sample No.(PIBLK): PIBLK14 Date Analyzed: 05/14/94

Lab Sample ID (PIBLK): MB*PIBLK*4 Time Analyzed: 1351

EPA Sample No.(INDA): INDAM13 Date Analyzed: 05/14/94

Lab Sample ID (INDA): CCS*INDAM*3 Time Analyzed: 1428

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.01	6.96	7.06	0.020	0.020	0.0
gamma-BHC (Lindane)	8.18	8.13	8.23	0.020	0.020	0.0
Heptachlor	9.26	9.21	9.31	0.020	0.020	0.0
Endosulfan I	14.25	14.18	14.32	0.020	0.020	0.0
Dieldrin	15.45	15.38	15.52	0.040	0.040	0.0
Endrin	16.72	16.64	16.78	0.040	0.040	0.0
4,4'-DDD	17.20	17.13	17.27	0.039	0.040	2.5
4,4'-DDT	18.12	18.05	18.19	0.040	0.040	0.0
Methoxychlor	20.61	20.54	20.68	0.20	0.20	0.0
Tetrachloro-m-xylene	5.32	5.27	5.37	0.020	0.020	0.0
Decachlorobiphenyl	25.06	24.96	25.16	0.039	0.040	2.5

EPA Sample No.(INDB): INDBM13 Date Analyzed : 05/14/94

Lab Sample ID (INDB): CCS*INDBM*3 Time Analyzed : 1505

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	8.40	8.35	8.45	0.019	0.020	5.0
delta-BHC	9.68	9.62	9.72	0.019	0.020	5.0
Aldrin	10.46	10.41	10.51	0.019	0.020	5.0
Heptachlor epoxide	12.75	12.68	12.82	0.019	0.020	5.0
4,4'-DDE	15.27	15.20	15.34	0.038	0.040	5.0
Endosulfan II	17.32	17.25	17.39	0.038	0.040	5.0
Endosulfan sulfate	18.72	18.65	18.79	0.038	0.040	5.0
Endrin ketone	20.84	20.77	20.91	0.038	0.040	5.0
Endrin aldehyde	18.35	18.28	18.42	0.038	0.040	5.0
alpha-Chlordane	14.17	14.10	14.24	0.019	0.020	5.0
gamma-Chlordane	13.46	13.39	13.53	0.019	0.020	5.0
Tetrachloro-m-xylene	5.32	5.27	5.37	0.020	0.020	0.0
Decachlorobiphenyl	25.06	24.96	25.16	0.039	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 49216

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s) 05/12/94 05/12/94

EPA Sample No.(PIBLK): PIBLK16 Date Analyzed: 05/15/94

Lab Sample ID (PIBLK): MB*PIBLK*6 Time Analyzed: 0550

EPA Sample No.(INDA): INDAM14 Date Analyzed: 05/15/94

Lab Sample ID (INDA): CCS*INDAM*4 Time Analyzed: 0626

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.01	6.96	7.06	0.020	0.020	0.0
gamma-BHC (Lindane)	8.19	8.13	8.23	0.020	0.020	0.0
Heptachlor	9.27	9.21	9.31	0.020	0.020	0.0
Endosulfan I	14.25	14.18	14.32	0.020	0.020	0.0
Dieldrin	15.45	15.38	15.52	0.040	0.040	0.0
Endrin	16.72	16.64	16.78	0.040	0.040	0.0
4,4'-DDD	17.20	17.13	17.27	0.040	0.040	0.0
4,4'-DDT	18.12	18.05	18.19	0.040	0.040	0.0
Methoxychlor	20.61	20.54	20.68	0.20	0.20	0.0
Tetrachloro-m-xylene	5.32	5.27	5.37	0.020	0.020	0.0
Decachlorobiphenyl	25.06	24.96	25.16	0.039	0.040	2.5

EPA Sample No.(INDB): INDBM14 Date Analyzed : 05/15/94

Lab Sample ID (INDB): CCS*INDBM*4 Time Analyzed : 0703

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	8.41	8.35	8.45	0.019	0.020	5.0
delta-BHC	9.68	9.62	9.72	0.019	0.020	5.0
Aldrin	10.46	10.41	10.51	0.019	0.020	5.0
Heptachlor epoxide	12.75	12.68	12.82	0.019	0.020	5.0
4,4'-DDE	15.27	15.20	15.34	0.038	0.040	5.0
Endosulfan II	17.33	17.25	17.39	0.038	0.040	5.0
Endosulfan sulfate	18.72	18.65	18.79	0.039	0.040	2.5
Endrin ketone	20.84	20.77	20.91	0.038	0.040	5.0
Endrin aldehyde	18.36	18.28	18.42	0.038	0.040	5.0
alpha-Chlordane	14.17	14.10	14.24	0.019	0.020	5.0
gamma-Chlordane	13.47	13.39	13.53	0.019	0.020	5.0
Tetrachloro-m-xylene	5.32	5.27	5.37	0.019	0.020	5.0
Decachlorobiphenyl	25.07	24.96	25.16	0.039	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 49216

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s) 05/12/94 05/12/94

EPA Sample No.(PIBLK): PIBLK18 Date Analyzed: 05/15/94

Lab Sample ID (PIBLK): MB*PIBLK*8 Time Analyzed: 2103

EPA Sample No.(INDA): INDAM15 Date Analyzed: 05/15/94

Lab Sample ID (INDA): CCS*INDAM*5 Time Analyzed: 2142

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.00	6.96	7.06	0.020	0.020	0.0
gamma-BHC (Lindane)	8.17	8.13	8.23	0.020	0.020	0.0
Heptachlor	9.25	9.21	9.31	0.020	0.020	0.0
Endosulfan I	14.24	14.18	14.32	0.020	0.020	0.0
Dieldrin	15.43	15.38	15.52	0.040	0.040	0.0
Endrin	16.70	16.64	16.78	0.040	0.040	0.0
4,4'-DDD	17.19	17.13	17.27	0.040	0.040	0.0
4,4'-DDT	18.11	18.05	18.19	0.040	0.040	0.0
Methoxychlor	20.60	20.54	20.68	0.20	0.20	0.0
Tetrachloro-m-xylene	5.31	5.27	5.37	0.020	0.020	0.0
Decachlorobiphenyl	25.04	24.96	25.16	0.040	0.040	0.0

EPA Sample No.(INDB): INDBM15 Date Analyzed : 05/15/94

Lab Sample ID (INDB): CCS*INDBM*5 Time Analyzed : 2221

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	8.39	8.35	8.45	0.020	0.020	0.0
delta-BHC	9.66	9.62	9.72	0.020	0.020	0.0
Aldrin	10.44	10.41	10.51	0.020	0.020	0.0
Heptachlor epoxide	12.73	12.68	12.82	0.020	0.020	0.0
4,4'-DDE	15.26	15.20	15.34	0.040	0.040	0.0
Endosulfan II	17.31	17.25	17.39	0.040	0.040	0.0
Endosulfan sulfate	18.71	18.65	18.79	0.040	0.040	0.0
Endrin ketone	20.83	20.77	20.91	0.040	0.040	0.0
Endrin aldehyde	18.34	18.28	18.42	0.040	0.040	0.0
alpha-Chlordane	14.15	14.10	14.24	0.020	0.020	0.0
gamma-Chlordane	13.45	13.39	13.53	0.020	0.020	0.0
Tetrachloro-m-xylene	5.31	5.27	5.37	0.020	0.020	0.0
Decachlorobiphenyl	25.04	24.96	25.16	0.041	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 49216

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s) 05/13/94 05/13/94

EPA Sample No.(PIBLK): PIBLK12 Date Analyzed: 05/13/94

Lab Sample ID (PIBLK): MB*PIBLK*2 Time Analyzed: 1602

EPA Sample No.(INDA): INDAM22 Date Analyzed: 05/13/94

Lab Sample ID (INDA): CCS*INDAM*2 Time Analyzed: 1645

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.11	5.06	5.16	0.021	0.020	5.0
gamma-BHC (Lindane)	5.91	5.86	5.96	0.021	0.020	5.0
Heptachlor	6.38	6.32	6.42	0.020	0.020	0.0
Endosulfan I	9.89	9.82	9.96	0.020	0.020	0.0
Dieldrin	11.23	11.16	11.30	0.041	0.040	2.5
Endrin	11.98	11.90	12.04	0.040	0.040	0.0
4,4'-DDD	14.01	13.94	14.08	0.041	0.040	2.5
4,4'-DDT	14.63	14.55	14.69	0.039	0.040	2.5
Methoxychlor	16.81	16.73	16.87	0.19	0.20	5.0
Tetrachloro-m-xylene	3.70	3.65	3.75	0.020	0.020	0.0
Decachlorobiphenyl	19.87	19.76	19.96	0.040	0.040	0.0

EPA Sample No.(INDB): INDBM22 Date Analyzed : 05/13/94

Lab Sample ID (INDB): CCS*INDBM*2 Time Analyzed : 1727

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	7.85	7.80	7.90	0.020	0.020	0.0
delta-BHC	8.55	8.50	8.60	0.019	0.020	5.0
Aldrin	7.05	7.00	7.10	0.020	0.020	0.0
Heptachlor epoxide	9.02	8.95	9.09	0.020	0.020	0.0
4,4'-DDE	10.79	10.71	10.85	0.039	0.040	2.5
Endosulfan II	14.02	13.95	14.09	0.039	0.040	2.5
Endosulfan sulfate	16.55	16.48	16.62	0.039	0.040	2.5
Endrin ketone	17.66	17.59	17.73	0.039	0.040	2.5
Endrin aldehyde	15.53	15.45	15.59	0.034	0.040	15.0
alpha-Chlordane	10.34	10.27	10.41	0.019	0.020	5.0
gamma-Chlordane	10.14	10.07	10.21	0.020	0.020	0.0
Tetrachloro-m-xylene	3.70	3.65	3.75	0.020	0.020	0.0
Decachlorobiphenyl	19.87	19.76	19.96	0.040	0.040	0.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 49216

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s) 05/13/94 05/13/94

EPA Sample No.(PIBLK): PIBLK14 Date Analyzed: 05/14/94

Lab Sample ID (PIBLK): MB*PIBLK*4 Time Analyzed: 1428

EPA Sample No.(INDA): INDAM23 Date Analyzed: 05/14/94

Lab Sample ID (INDA): CCS*INDAM*3 Time Analyzed: 1505

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.11	5.06	5.16	0.020	0.020	0.0
gamma-BHC (Lindane)	5.91	5.86	5.96	0.020	0.020	0.0
Heptachlor	6.38	6.32	6.42	0.020	0.020	0.0
Endosulfan I	9.89	9.82	9.96	0.020	0.020	0.0
Dieldrin	11.23	11.16	11.30	0.041	0.040	2.5
Endrin	11.98	11.90	12.04	0.040	0.040	0.0
4,4'-DDD	14.01	13.94	14.08	0.040	0.040	0.0
4,4'-DDT	14.63	14.55	14.69	0.039	0.040	2.5
Methoxychlor	16.80	16.73	16.87	0.19	0.20	5.0
Tetrachloro-m-xylene	3.70	3.65	3.75	0.020	0.020	0.0
Decachlorobiphenyl	19.86	19.76	19.96	0.040	0.040	0.0

EPA Sample No.(INDB): INDBM23 Date Analyzed : 05/14/94

Lab Sample ID (INDB): CCS*INDBM*3 Time Analyzed : 1542

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	7.85	7.80	7.90	0.020	0.020	0.0
delta-BHC	8.55	8.50	8.60	0.020	0.020	0.0
Aldrin	7.05	7.00	7.10	0.020	0.020	0.0
Heptachlor epoxide	9.02	8.95	9.09	0.020	0.020	0.0
4,4'-DDE	10.79	10.71	10.85	0.039	0.040	2.5
Endosulfan II	14.02	13.95	14.09	0.040	0.040	0.0
Endosulfan sulfate	16.55	16.48	16.62	0.040	0.040	0.0
Endrin ketone	17.66	17.59	17.73	0.040	0.040	0.0
Endrin aldehyde	15.53	15.45	15.59	0.034	0.040	15.0
alpha-Chlordane	10.34	10.27	10.41	0.020	0.020	0.0
gamma-Chlordane	10.14	10.07	10.21	0.020	0.020	0.0
Tetrachloro-m-xylene	3.70	3.65	3.75	0.020	0.020	0.0
Decachlorobiphenyl	19.87	19.76	19.96	0.041	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 49216

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s) 05/13/94 05/13/94

EPA Sample No.(PIBLK): PIBLK16 Date Analyzed: 05/15/94

Lab Sample ID (PIBLK): MB*PIBLK*6 Time Analyzed: 0626

EPA Sample No.(INDA): INDAM24 Date Analyzed: 05/15/94

Lab Sample ID (INDA): CCS*INDAM*4 Time Analyzed: 0703

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.11	5.06	5.16	0.020	0.020	0.0
gamma-BHC (Lindane)	5.91	5.86	5.96	0.020	0.020	0.0
Heptachlor	6.38	6.32	6.42	0.020	0.020	0.0
Endosulfan I	9.89	9.82	9.96	0.020	0.020	0.0
Dieldrin	11.23	11.16	11.30	0.040	0.040	0.0
Endrin	11.98	11.90	12.04	0.039	0.040	2.5
4,4'-DDD	14.01	13.94	14.08	0.039	0.040	2.5
4,4'-DDT	14.63	14.55	14.69	0.039	0.040	2.5
Methoxychlor	16.81	16.73	16.87	0.19	0.20	5.0
Tetrachloro-m-xylene	3.70	3.65	3.75	0.020	0.020	0.0
Decachlorobiphenyl	19.87	19.76	19.96	0.040	0.040	0.0

EPA Sample No.(INDB): INDBM24 Date Analyzed : 05/15/94

Lab Sample ID (INDB): CCS*INDBM*4 Time Analyzed : 0739

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	7.85	7.80	7.90	0.020	0.020	0.0
delta-BHC	8.55	8.50	8.60	0.019	0.020	5.0
Aldrin	7.05	7.00	7.10	0.020	0.020	0.0
Heptachlor epoxide	9.02	8.95	9.09	0.020	0.020	0.0
4,4'-DDE	10.79	10.71	10.85	0.039	0.040	2.5
Endosulfan II	14.02	13.95	14.09	0.039	0.040	2.5
Endosulfan sulfate	16.55	16.48	16.62	0.039	0.040	2.5
Endrin ketone	17.66	17.59	17.73	0.039	0.040	2.5
Endrin aldehyde	15.53	15.45	15.59	0.039	0.040	2.5
alpha-Chlordane	10.34	10.27	10.41	0.020	0.020	0.0
gamma-Chlordane	10.14	10.07	10.21	0.020	0.020	0.0
Tetrachloro-m-xylene	3.70	3.65	3.75	0.020	0.020	0.0
Decachlorobiphenyl	19.87	19.76	19.96	0.040	0.040	0.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No: 44022 SAS No: SDG No: 49216

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s) 05/13/94 05/13/94

EPA Sample No.(PIBLK): PIBLK18 Date Analyzed: 05/15/94

Lab Sample ID (PIBLK): MB*PIBLK*8 Time Analyzed: 2142

EPA Sample No.(INDA): INDAM25 Date Analyzed: 05/15/94

Lab Sample ID (INDA): CCS*INDAM*5 Time Analyzed: 2221

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	5.10	5.06	5.16	0.020	0.020	0.0
gamma-BHC (Lindane)	5.90	5.86	5.96	0.020	0.020	0.0
Heptachlor	6.37	6.32	6.42	0.020	0.020	0.0
Endosulfan I	9.88	9.82	9.96	0.020	0.020	0.0
Dieldrin	11.22	11.16	11.30	0.041	0.040	2.5
Endrin	11.96	11.90	12.04	0.040	0.040	0.0
4,4'-DDD	14.00	13.94	14.08	0.039	0.040	2.5
4,4'-DDT	14.62	14.55	14.69	0.039	0.040	2.5
Methoxychlor	16.79	16.73	16.87	0.19	0.20	5.0
Tetrachloro-m-xylene	3.70	3.65	3.75	0.020	0.020	0.0
Decachlorobiphenyl	19.86	19.76	19.96	0.040	0.040	0.0

EPA Sample No.(INDB): INDBM25 Date Analyzed : 05/15/94

Lab Sample ID (INDB): CCS*INDBM*5 Time Analyzed : 2300

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW RT	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	7.84	7.80	7.90	0.020	0.020	0.0
delta-BHC	8.54	8.50	8.60	0.020	0.020	0.0
Aldrin	7.04	7.00	7.10	0.020	0.020	0.0
Heptachlor epoxide	9.01	8.95	9.09	0.020	0.020	0.0
4,4'-DDE	10.78	10.71	10.85	0.039	0.040	2.5
Endosulfan II	14.01	13.95	14.09	0.040	0.040	0.0
Endosulfan sulfate	16.54	16.48	16.62	0.040	0.040	0.0
Endrin ketone	17.65	17.59	17.73	0.040	0.040	0.0
Endrin aldehyde	15.51	15.45	15.59	0.040	0.040	0.0
alpha-Chlordane	10.33	10.27	10.41	0.020	0.020	0.0
gamma-Chlordane	10.13	10.07	10.21	0.020	0.020	0.0
Tetrachloro-m-xylene	3.70	3.65	3.75	0.020	0.020	0.0
Decachlorobiphenyl	19.86	19.76	19.96	0.041	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 05/12/94 05/13/94

Instrument ID: HP58909

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.32 DCB: 25.06

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC11	CK*RESC*1	05/12/94	1836	5.32	25.06
02	PEM11	CK*PEM*1	05/12/94	1913	5.32	25.06
03	AR166011	ICV*AR1660*1	05/12/94	1951	5.32	25.06
04	AR122111	ICV*AR1221*1	05/12/94	2029	5.32	25.06
05	AR123211	ICV*AR1232*1	05/12/94	2107	5.32	25.06
06	AR124211	ICV*AR1242*1	05/12/94	2145	5.32	25.05
07	AR124811	ICV*AR1248*1	05/12/94	2223	5.32	25.06
08	AR125411	ICV*AR1254*1	05/12/94	2300	5.32	25.06
09	TOXAPH11	ICV*TOXAPH*1	05/12/94	2338	5.32	25.06
10	INDAL11	ICV*INDAL*1	05/13/94	0016	5.32	25.06
11	INDBL11	ICV*INDBL*1	05/13/94	0054	5.32	25.06
12	INDAM11	ICV*INDAM*1	05/13/94	0132	5.32	25.06
13	INDBM11	ICV*INDBM*1	05/13/94	0210	5.32	25.06
14	INDAH11	ICV*INDAH*1	05/13/94	0247	5.32	25.06
15	INDBH11	ICV*INDBH*1	05/13/94	0325	5.32	25.06
16	PIBLK11	MB*PIBLK*1	05/13/94	0403	5.32	25.06
17	PEM12	CK*PEM*2	05/13/94	0441	5.32	25.06
18	PIBLK12	MB*PIBLK*2	05/13/94	1524	5.32	25.06
19	INDAM12	CCS*INDAM*2	05/13/94	1602	5.32	25.06
20	INDBM12	CCS*INDBM*2	05/13/94	1645	5.32	25.06
21	PIBLK13	MB*PIBLK*3	05/14/94	0155	5.32	25.06
22	PEM13	CK*PEM*3	05/14/94	0237	5.32	25.06
23	PIBLK14	MB*PIBLK*4	05/14/94	1351	5.32	25.06
24	INDAM13	CCS*INDAM*3	05/14/94	1428	5.32	25.06
25	INDBM13	CCS*INDBM*3	05/14/94	1505	5.32	25.06
26	PIBLK15	MB*PIBLK*5	05/15/94	0055	5.32	25.06
27	PEM14	CK*PEM*4	05/15/94	0132	5.32	25.06
28	PIBLK16	MB*PIBLK*6	05/15/94	0550	5.32	25.06
29	INDAM14	CCS*INDAM*4	05/15/94	0626	5.32	25.06
30	INDBM14	CCS*INDBM*4	05/15/94	0703	5.32	25.07
31	PBLK1	MB*QC*1	05/15/94	1525	5.31	25.04
32	A0104014	CDMHNSS*36	05/15/94	1602	5.31	25.04

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC Column: DB608 ID: .53 (mm) Init. Calib. Date(s): 05/12/94 05/13/94

Instrument ID: HP58909

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.32 DCB: 25.06

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PIBLK17	MB*PIBLK*7	05/15/94	1716	5.31	25.04
02	PEM15	CK*PEM*5	05/15/94	1752	5.31	25.04
03	A0104014DL	CDMHNSS*36	05/15/94	1829	5.31	25.04
04	AA0104014MS	SPM1*CDMHNSS	05/15/94	1906	5.31	25.04
05	A0104014MSD	SPM2*CDMHNSS	05/15/94	1945	5.31	25.04
06	PIBLK18	MB*PIBLK*8	05/15/94	2103	5.31	25.04
07	INDAM15	CCS*INDAM*5	05/15/94	2142	5.31	25.04
08	INDBM15	CCS*INDBM*5	05/15/94	2221	5.31	25.04
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QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 05/12/94 05/13/94

Instrument ID: HP58909

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.70 DCB: 19.86

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC21	CK*RESC*1	05/12/94	1913	3.70	19.86
02	PEM21	CK*PEM*1	05/12/94	1951	3.70	19.86
03	AR166021	ICV*AR1660*1	05/12/94	2029	3.70	19.86
04	AR122121	ICV*AR1221*1	05/12/94	2107	3.70	19.86
05	AR123221	ICV*AR1232*1	05/12/94	2145	3.70	19.86
06	AR124221	ICV*AR1242*1	05/12/94	2223	3.70	19.86
07	AR124821	ICV*AR1248*1	05/12/94	2300	3.70	19.86
08	AR125421	ICV*AR1254*1	05/12/94	2338	3.70	19.86
09	TOXAPH21	ICV*TOXAPH*1	05/13/94	0016	3.70	19.86
10	INDAL21	ICV*INDAL*1	05/13/94	0054	3.70	19.86
11	INDBL21	ICV*INDBL*1	05/13/94	0132	3.70	19.86
12	INDAM21	ICV*INDAM*1	05/13/94	0210	3.70	19.86
13	INDBM21	ICV*INDBM*1	05/13/94	0247	3.70	19.86
14	INDAH21	ICV*INDAH*1	05/13/94	0325	3.70	19.86
15	INDBH21	ICV*INDBH*1	05/13/94	0403	3.70	19.86
16	PIBLK21	MB*PIBLK*1	05/13/94	0441	3.70	19.86
17	PEM22	CK*PEM*2	05/13/94	0519	3.70	19.86
18	PIBLK22	MB*PIBLK*2	05/13/94	1602	3.70	19.86
19	INDAM22	CCS*INDAM*2	05/13/94	1645	3.70	19.87
20	INDBM22	CCS*INDBM*2	05/13/94	1727	3.70	19.87
21	PIBLK23	MB*PIBLK*3	05/14/94	0237	3.70	19.87
22	PEM23	CK*PEM*3	05/14/94	0320	3.70	19.87
23	PIBLK24	MB*PIBLK*4	05/14/94	1428	3.70	19.86
24	INDAM23	CCS*INDAM*3	05/14/94	1505	3.70	19.86
25	INDBM23	CCS*INDBM*3	05/14/94	1542	3.70	19.87
26	PIBLK25	MB*PIBLK*5	05/15/94	0132	3.70	19.87
27	PEM24	CK*PEM*4	05/15/94	0209	3.70	19.87
28	PIBLK26	MB*PIBLK*6	05/15/94	0626	3.70	19.87
29	INDAM24	CCS*INDAM*4	05/15/94	0703	3.70	19.87
30	INDBM24	CCS*INDBM*4	05/15/94	0739	3.70	19.87
31	PBLK1	MB*QC*1	05/15/94	1602	3.70	19.85
32	A0104014	CDMHNSS*36	05/15/94	1639	3.70	19.86

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GC Column: DB1701 ID: .53 (mm) Init. Calib. Date(s): 05/12/94 05/13/94

Instrument ID: HP58909

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.70 DCB: 19.86

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PIBLK27	MB*PIBLK*7	05/15/94	1752	3.70	19.86
02	PEM25	CK*PEM*5	05/15/94	1829	3.70	19.86
03	A0104014DL	CDMHNSS*36	05/15/94	1906	3.70	19.86
04	AA0104014MS	SPM1*CDMHNSS	05/15/94	1945	3.70	19.86
05	A0104014MSD	SPM2*CDMHNSS	05/15/94	2024	3.70	19.86
06	PIBLK28	MB*PIBLK*8	05/15/94	2142	3.70	19.86
07	INDAM25	CCS*INDAM*5	05/15/94	2221	3.70	19.86
08	INDBM25	CCS*INDBM*5	05/15/94	2300	3.70	19.86
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.15 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

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

9A
PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Florisil Cartridge Lot Number: 511H08556 Date of Analysis: 5-11-94

GC Column(1): DB608 ID: .53 (mm) GC Column (2): DB1701 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC	0.010	0.0096	96.0	80-120
gamma-BHC (Lindane)	0.010	0.0099	99.0	80-120
Heptachlor	0.010	0.011	110.0	80-120
Endosulfan I	0.010	0.011	110.0	80-120
Dieldrin	0.020	0.021	105.0	80-120
Endrin	0.020	0.021	105.0	80-120
4,4'-DDD	0.020	0.023	115.0	80-120
4,4'-DDT	0.020	0.021	105.0	80-120
Methoxychlor	0.10	0.11	110.0	80-120
Tetrachloro-m-xylene	0.010	0.0100	100.0	80-120
Decachlorobiphenyl	0.020	0.023	115.0	80-120

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

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK1	MB*QC*1	05/15/94	05/15/94
02	A0104014	CDMHNSS*36	05/15/94	05/15/94
03	A0104014DL	CDMHNSS*36	05/15/94	05/15/94
04	AA0104014MS	SPM1*CDMHNSS	05/15/94	05/15/94
05	A0104014MSD	SPM2*CDMHNSS	05/15/94	05/15/94
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				

9B
PESTICIDE GPC CALIBRATION

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

GPC Column 591002B1 Calibration Date: 5-9-94

GC Column(1): DB608 ID: .53 (mm) GC Column (2): DB1701 ID: .53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	50	49	100	80-110
Heptachlor	50	45	90	80-110
Aldrin	50	44	90	80-110
Dieldrin	100	100	100	80-110
Endrin	100	110	110	80-110
4,4'-DDT	100	110	110	80-110

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

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK1	MB*QC*1	05/15/94	05/15/94
02	A0104014	CDMHNSS*36	05/15/94	05/15/94
03	A0104014DL	CDMHNSS*36	05/15/94	05/15/94
04	AA0104014MS	SPM1*CDMHNSS	05/15/94	05/15/94
05	A0104014MSD	SPM2*CDMHNSS	05/15/94	05/15/94
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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19				
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22				
23				
24				
25				
26				

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

A0104014

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Lab Sample ID : CDMHNSS*36 Date(s) Analyzed: 05/15/94 05/15/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Dieldrin	1	15.43	15.38	15.52	8.34	
	2	11.22	11.16	11.30	8.36	0.2
4,4'-DDE	1	15.25	15.20	15.34	16.77	
	2	10.78	10.71	10.85	16.63	0.8
4,4'-DDD	1	17.19	17.13	17.27	49.05	
	2	13.99	13.94	14.08	4.78	926.2
4,4'-DDT	1	18.11	18.05	18.19	300.89	
	2	14.62	14.55	14.69	230.25	30.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

A0104014DL

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Lab Sample ID : CDMHNSS*36 Date(s) Analyzed: 05/15/94 05/15/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDT	1	18.11	18.05	18.19	188.44	
	2	14.62	14.55	14.69	184.41	2.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

AA0104014MS

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Lab Sample ID : SPM1*CDMHNSS*36 Date(s) Analyzed: 05/15/94 05/15/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.17	8.13	8.23	16.93	
	2	5.91	5.86	5.96	17.60	4.0
Heptachlor	1	9.25	9.21	9.31	16.19	
	2	6.37	6.32	6.42	16.13	0.4
Aldrin	1	10.44	10.41	10.51	14.56	
	2	7.04	7.00	7.10	14.87	2.1
Dieldrin	1	15.44	15.38	15.52	54.53	
	2	11.22	11.16	11.30	50.47	8.0
4,4'-DDE	1	15.26	15.20	15.26	17.78	
	2	10.78	10.71	10.85	17.91	0.7
Endrin	1	16.71	16.64	16.71	35.85	
	2	11.96	11.90	11.96	35.29	1.6
4,4'-DDD	1	17.19	17.13	17.19	37.16	
	2	13.99	13.94	14.08	3.03	1126.4
4,4'-DDT	1	18.11	18.05	18.19	214.89	
	2	14.62	14.55	14.62	175.60	22.4

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

A0104014MSD

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Lab Sample ID : SPM2*CDMHNSS*36 Date(s) Analyzed: 05/15/94 05/15/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.17	8.13	8.23	17.41	
	2	5.91	5.86	5.96	16.87	3.2
Heptachlor	1	9.25	9.21	9.31	16.16	
	2	6.37	6.32	6.42	15.62	3.5
Aldrin	1	10.44	10.41	10.51	14.76	
	2	7.04	7.00	7.10	14.27	3.4
Dieldrin	1	15.44	15.38	15.52	46.46	
	2	11.22	11.16	11.30	41.20	12.8
4,4'-DDE	1	15.26	15.20	15.26	10.71	
	2	10.78	10.71	10.85	10.12	5.8
Endrin	1	16.71	16.64	16.71	37.90	
	2	11.96	11.90	11.96	34.15	11.0
4,4'-DDD	1	17.19	17.13	17.19	36.85	
	2	14.00	13.94	14.08	2.87	1184.0
4,4'-DDT	1	18.11	18.05	18.19	202.28	
	2	14.62	14.55	14.62	157.62	28.3

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO

PBLK1

Lab Name: ESE Contract: 1944022G

Lab Code: ESE Case No.: 44022 SAS No.: SDG No.: 49216

Lab Sample ID : MB*QC*1 Date(s) Analyzed: 05/15/94 05/15/94

Instrument ID (1): HP58909 Instrument ID (2): HP58909

GC Column(1): DB608 ID: .53 (mm) GC Column(2): DB1701 ID:.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDT	1	18.11	18.05	18.19	5.58	
	2	14.61	14.55	14.69	5.69	2.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

9513355.1641

Software Version: 4.0<1C29>
Sample Name : CK*RESC*1 Time : 5/15/94 04:20 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/12/94 06:36 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A005.RAW
Result File : C:\TC4\HP58909\998A005.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A005.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A005.RST
Calib Method : C:\TC4\HP58909\998ARES from C:\TC4\HP58909\998A005.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 14

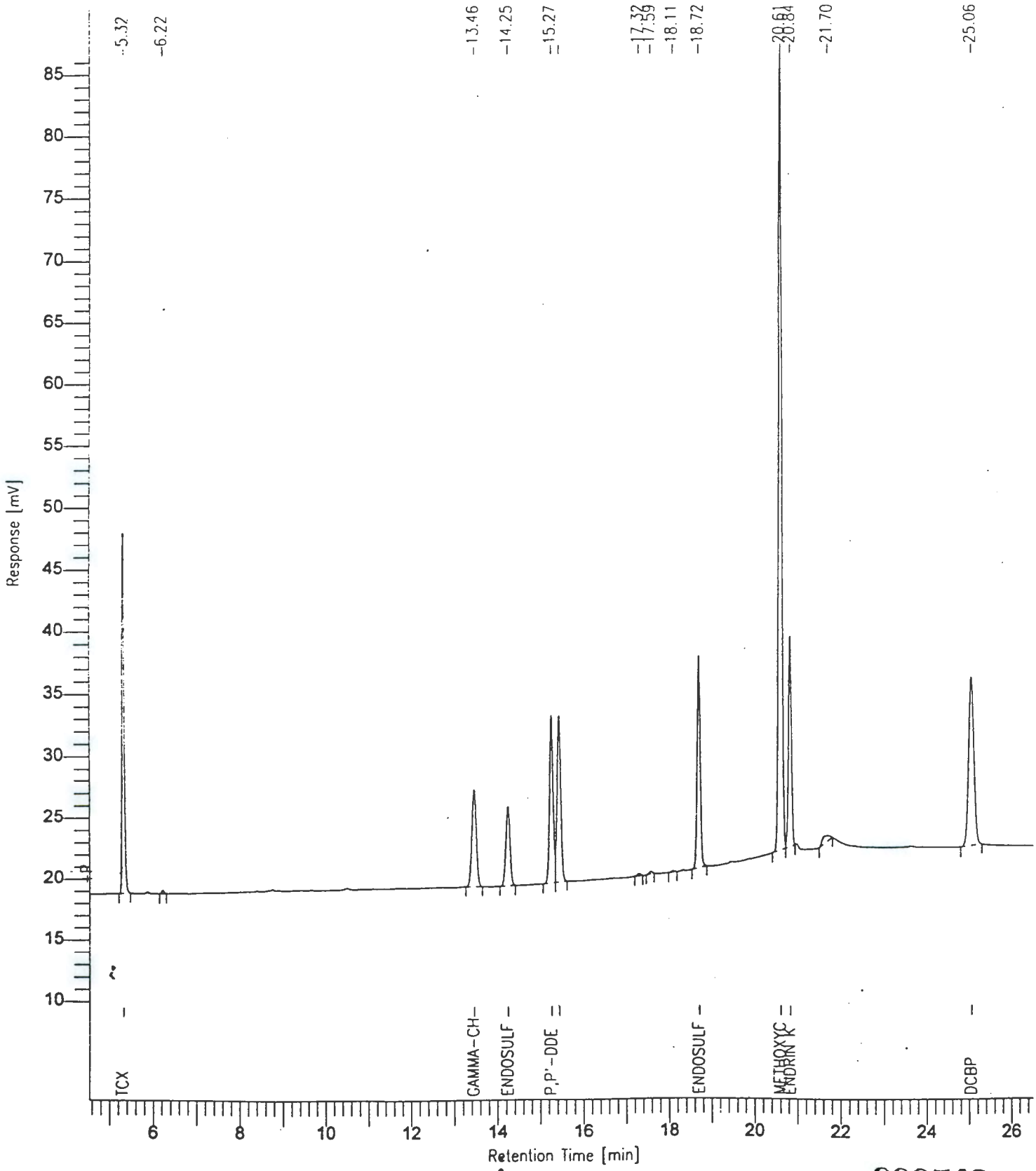
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.317	TCX	98704	B	29155	7e-15	0.0200
3	13.459	GAMMA-CHLORDANE	58139	B	7951	-4e-15	0.0100
4	14.248	ENDOSULFAN A	43421	B	6488	0.0000	0.0100
5	15.266	P,P'-DDE	79334	B	13675	4e-15	0.0200
6	15.445	DIELDRIN	80921	V	13604	-3e-15	0.0200
10	18.716	ENDOSULFAN SULFATE	85966	B	17186	-6e-15	0.0200
11	20.612	METHOXYCHLOR	332827	B	67420	2e-15	0.1000
12	20.838	ENDRIN KETONE	81980	V	17145	-5e-15	0.0200
14	25.058	DCBP	117797	B	13645	6e-15	0.0200
			979089		186270		0.2400

9513555.1642 Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\998A005.RAW
Method :
Start Time : 4.54 min End Time : 26.52 min
Scale Factor: 0.0 Plot Offset: 10 mV

Sample #:
Date : 5/15/94 04:20 PM
Time of Injection: 5/12/94 06:36 PM
Low Point : 9.55 mV High Point : 86.47 mV
Plot Scale: 76.9 mV



000548

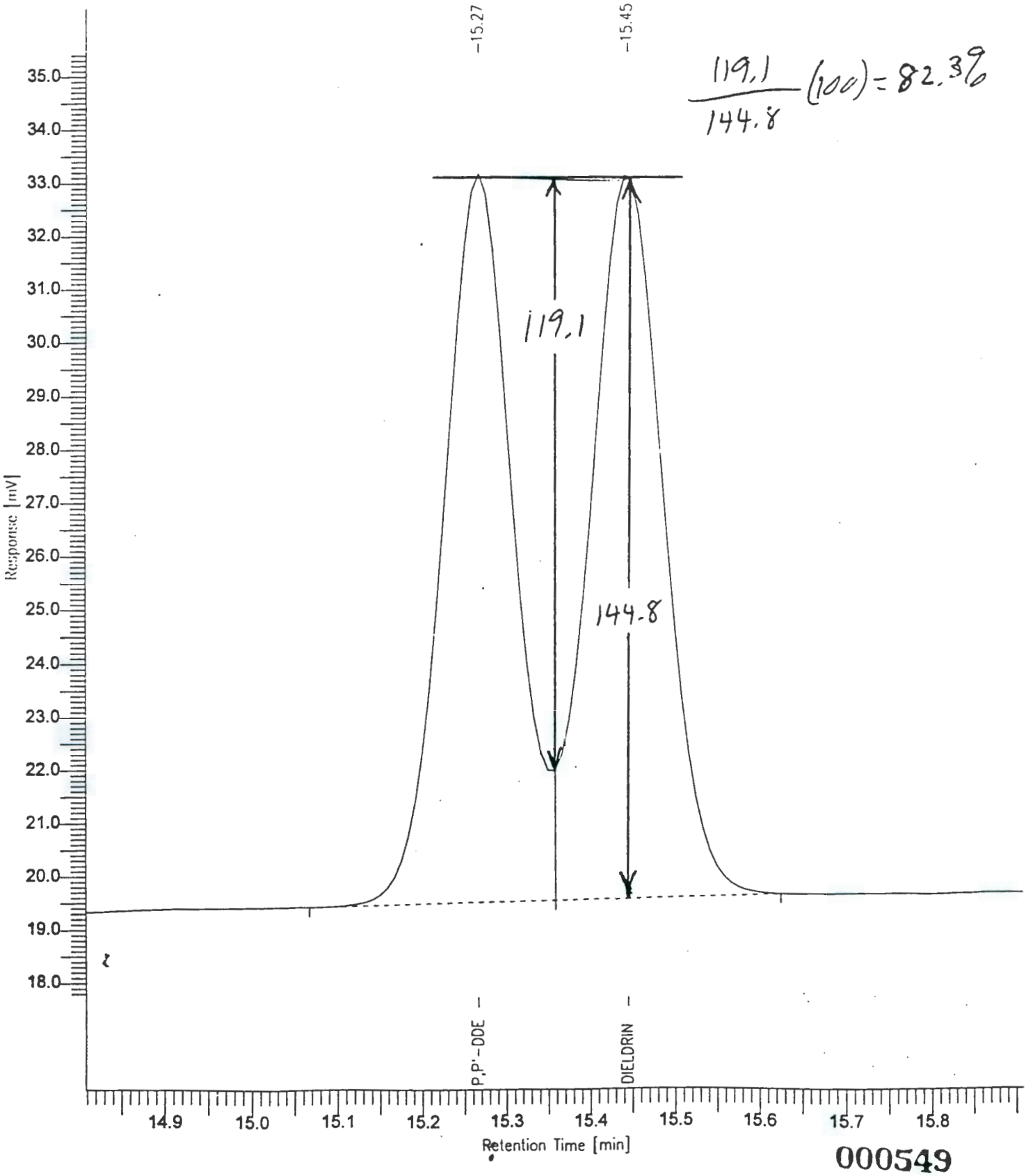
9513355.1643

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\998A005.RAW
Method :
Start Time : 14.81 min End Time : 15.91 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 04:20 PM
Time of Injection: 5/12/94 06:36 PM
Low Point : 17.73 mV High Point : 35.41 mV
Plot Scale: 17.7 mV

$\frac{119.1}{144.8}(100) = 82.3\%$

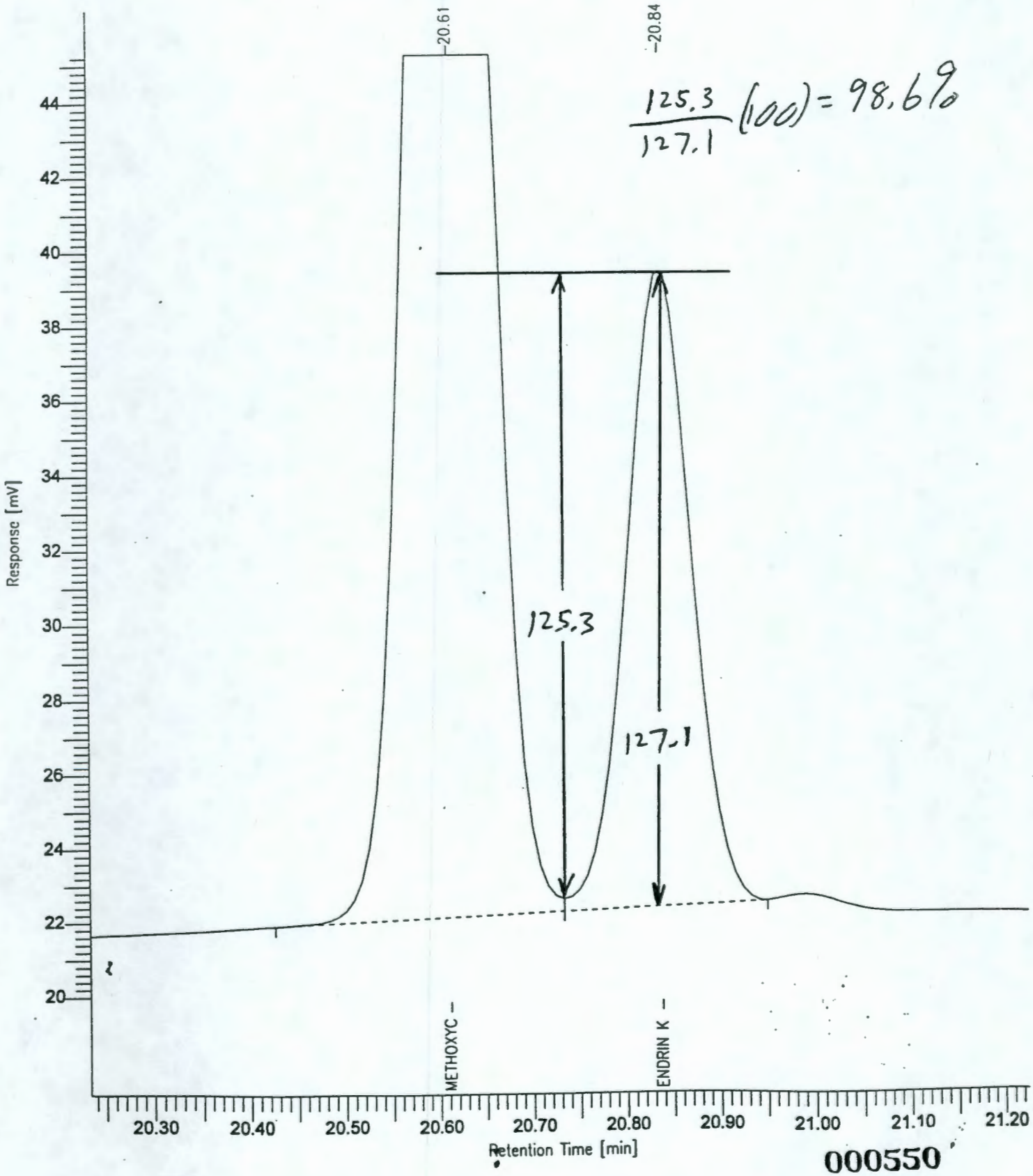


9513355.1644

Chromatogram

Sample Name : CK*RESC*1
FileName : C:\TC4\HP58909\998A005.RAW
Method :
Start Time : 20.23 min End Time : 21.23 min
Scale Factor: 0.0 Plot Offset: 20 mV

Sample #:
Date : 5/15/94 04:21 PM
Time of Injection: 5/12/94 06:36 PM
Low Point : 19.84 mV High Point : 45.22 mV
Plot Scale: 25.4 mV



$\frac{125.3}{127.1}(100) = 98.6\%$

9513355.1646

Software Version: 4.0<1C29>
Sample Name : CK*PEM*1 Time : 5/15/94 04:22 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/12/94 07:13 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A006.RAW
Result File : C:\TC4\HP58909\998A006.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A006.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A006.RST
Calib Method : C:\TC4\HP58909\998APEM from C:\TC4\HP58909\998A006.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 18

DATA REPORT

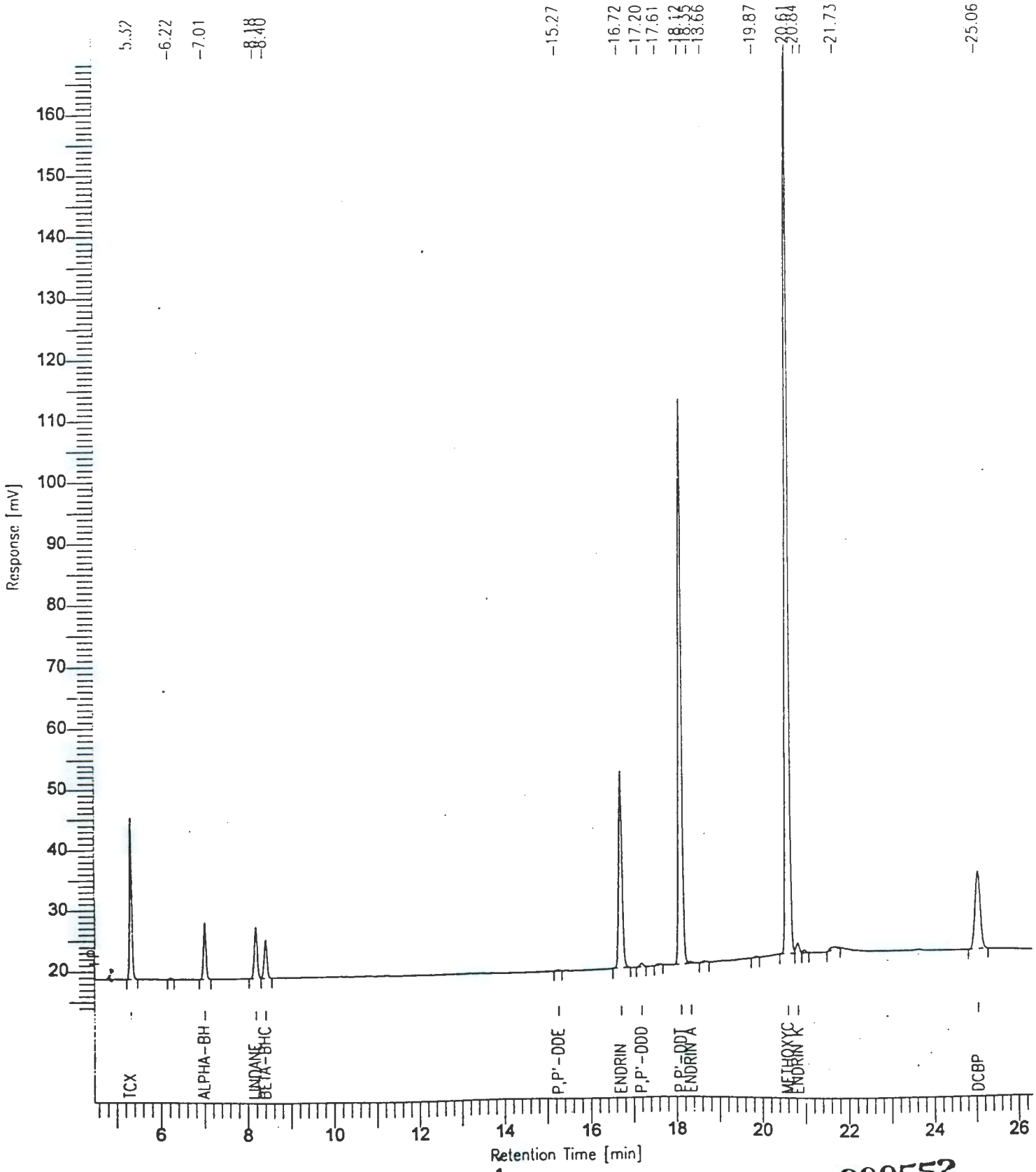
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.317	TCX	90008	B	26556	-0.0045
3	7.007	ALPHA-BHC	37267	B	9192	-0.0105
4	8.180	LINDANE	38256	B	8293	0.0009
5	8.402	BETA-BHC	28742	V	6154	-0.0131
6	15.267	P,P'-DDE	860	B	168	-0.0179
7	16.715	ENDRIN	176522	B	32655	-0.0025
8	17.200	P,P'-DDD	3244	B	615	-0.0007
10	18.121	P,P'-DDT	448923	B	93107	0.0130
11	18.350	ENDRIN ALDEHYDE	1846	E	334	-0.0152
14	20.612	METHOXYCHLOR	795399	B	156086	0.0030
15	20.836	ENDRIN KETONE	8594	V	1646	-0.0264
18	25.058	DCBP	110904	B	12744	-0.0039

9513355.1646

Chromatogram

Sample Name : CK*PEM*1
FileName : C:\TC4\HP58909\998A006.RAW
Method :
Start Time : 4.49 min End Time : 26.33 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #:
Date : 5/15/94 04:22 PM
Time of Injection: 5/12/94 07:13 PM
Low Point : 13.77 mV High Point : 168.96 mV
Plot Scale: 155.2 mV



000552

9513355.1647

Software Version: 4.0<1C29>
Sample Name : ICV*AR1660*1 Time : 5/15/94 04:22 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/12/94 07:51 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A007.RAW
Result File : C:\TC4\HP58909\998A007.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A007.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A007.RST
Calib Method : C:\TC4\HP58909\998A1660 from C:\TC4\HP58909\998A007.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 52

DATA REPORT

Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
2	5.317	TCX	94246	B	27797	-4e-15	0.0200
6	6.899	PCB-1016-1	13857	B	3215	-4e-15	0.1000
8	8.122	PCB-1016-2	34182	V	6044	1e-15	0.1000
10	8.817		3810	B	897	-------	3.8105e-08
11	9.094		10074	B	1863	-------	1.0074e-07
12	9.324	PCB-1016-3	52034	B	7013	-1e-15	0.1000
13	9.914		20236	B	3260	-------	2.0236e-07
15	10.493		23680	B	2551	-------	2.3681e-07
16	10.685		7005	B	1424	-------	7.0050e-08
18	11.789		20747	B	2677	-------	2.0747e-07
19	11.960		8017	V	1221	-------	8.0171e-08
20	12.300		13236	V	1393	-------	1.3236e-07

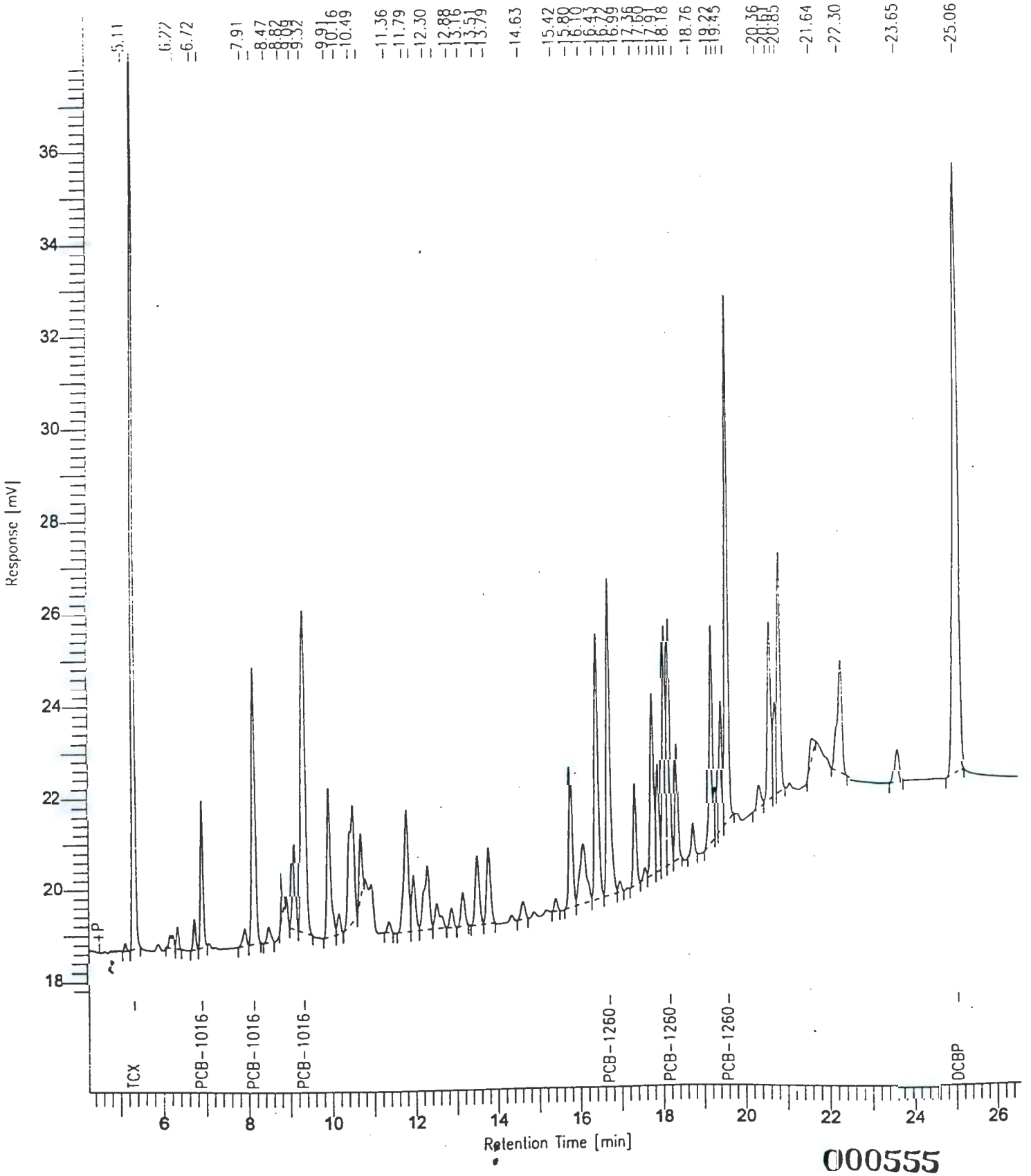
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
21	12.521		4976	V	545	-------	4.9757e-08
23	13.156		4754	B	723	-------	4.7540e-08
24	13.514		10643	B	1527	-------	1.0643e-07
25	13.791		11294	V	1670	-------	1.1294e-07
28	15.797		18881	B	3128	-------	1.8881e-07
29	16.099		15179	V	1326	-------	1.5179e-07
30	16.427		36612	V	5806	-------	3.6612e-07
31	16.718	PCB-1260-1	42947	V	6920	0.0000	0.1000
33	17.359		11612	B	2257	-------	1.1612e-07
35	17.780		23881	V	3989	-------	2.3881e-07
36	17.911		12173	V	2387	-------	1.2173e-07
37	18.077		28775	V	5268	-------	2.8775e-07
38	18.181	PCB-1260-2	28107	V	5373	0.0000	0.1000
39	18.371		12896	V	2572	-------	1.2896e-07
40	18.763		3619	B	722	-------	3.6190e-08
41	19.223		26036	B	4724	-------	2.6036e-07
42	19.342		4653	V	1120	-------	4.6531e-08
43	19.454		14964	V	2832	-------	1.4964e-07
44	19.598	PCB-1260-3	57132	V	11447	0.0000	0.1000
46	20.613		22421	V	3880	-------	2.2421e-07
47	20.739		8959	V	2036	-------	8.9589e-08
48	20.845		27091	V	5217	-------	2.7091e-07
49	21.637		3416	B	440	-------	3.4160e-08
50	22.304		19340	B	2436	-------	1.9340e-07
51	23.652		4819	B	687	-------	4.8195e-08
52	25.057	DCBP	114371	B	13209	-7e-15	0.0200
			870675		151596		0.6400

9513355.1649

Chromatogram

Sample Name : ICV*AR1660*1
FileName : C:\TC4\HP58909\998A007.RAW
Method :
Start Time : 4.25 min End Time : 26.58 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 04:22 PM
Time of Injection: 5/12/94 07:51 PM
Low Point : 17.60 mV High Point : 37.97 mV
Plot Scale: 20.4 mV



000555

9513355.1650

Software Version: 4.0<1C29>
Sample Name : ICV*AR1221*1 Time : 5/15/94 04:23 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/12/94 08:29 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A008.RAW
Result File : C:\TC4\HP58909\998A008.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A008.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A008.RST
Calib Method : C:\TC4\HP58909\998A1221 from C:\TC4\HP58909\998A008.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 25

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	4.771	PCB-1221-1	16718	B	4437	-4e-15	0.2000
2	5.316	TCX	100856	B	28350	0.0000	0.0200
4	6.153		7079	B	961	-------	7.0794e-08
5	6.322	PCB-1221-2	12033	V	2979	6e-15	0.2000
6	6.719		9623	B	2271	-------	9.6232e-08
7	6.896	PCB-1221-3	32007	V	7161	-3e-15	0.2000
8	7.068		3583	V	846	-------	3.5830e-08
10	8.110		12352	V	1902	-------	1.2352e-07
13	9.324		9728	B	1320	-------	9.7278e-08
15	10.491		3774	B	399	-------	3.7745e-08
24	21.719		8318	B	508	-------	8.3175e-08
25	25.058	DCBP	114648	B	13315	2e-15	0.0200

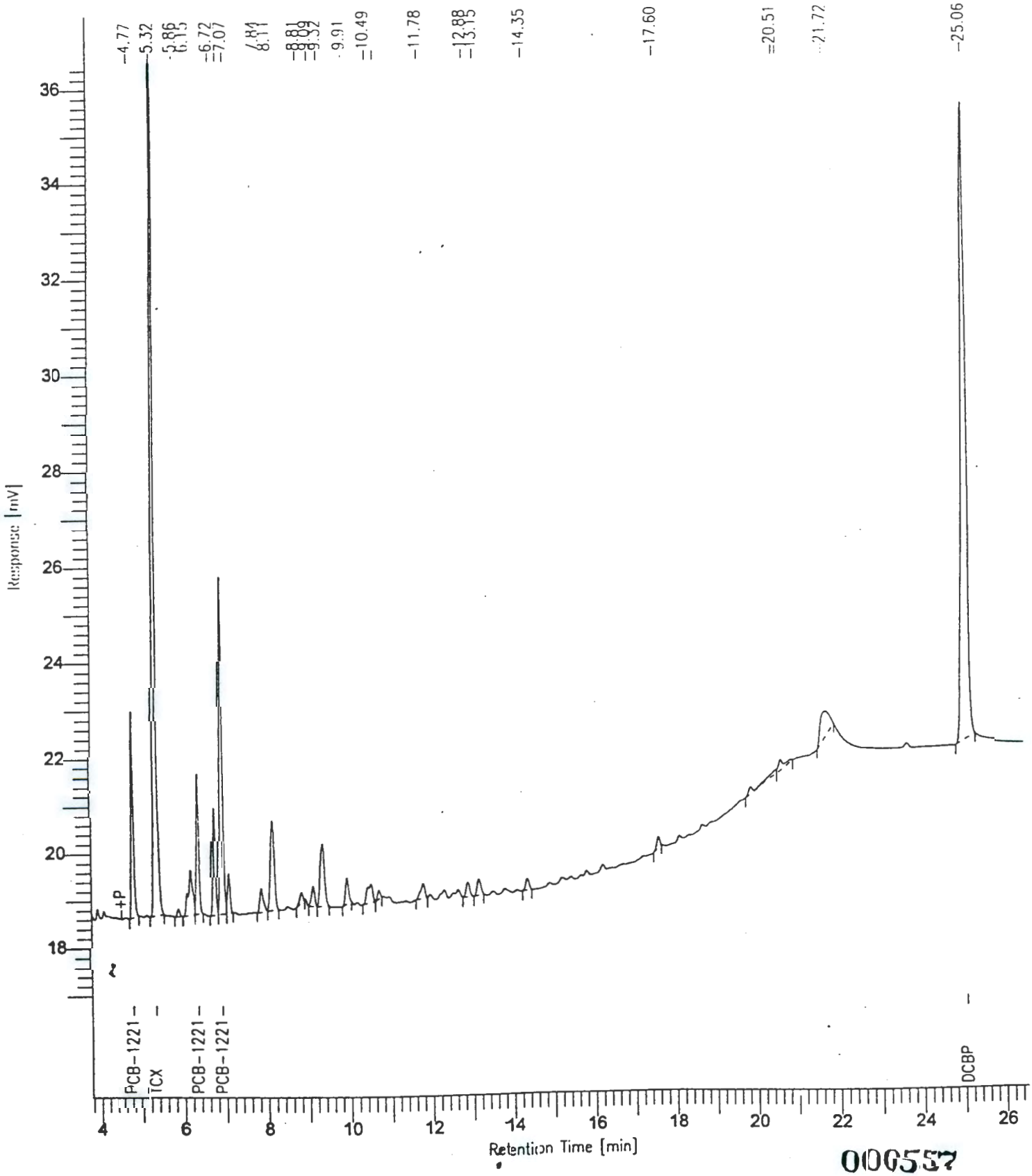
9513355.1651

Chromatogram

Sample Name : ICV*AR1221*1
FileName : C:\TC4\HP58909\998A008.RAW
Method :
Start Time : 3.77 min
Scale Factor: 0.0

End Time : 26.52 min
Plot Offset: 17 mV

Sample #:
Date : 5/15/94 04:23 PM
Time of Injection: 5/12/94 08:29 PM
Low Point : 16.80 mV
Plot Scale: 19.8 mV



000557

Software Version: 4.0<1C29>
Sample Name : ICV*AR1232*1 Time : 5/15/94 04:24 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/12/94 09:07 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A009.RAW
Result File : C:\TC4\HP58909\998A009.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A009.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A009.RST
Calib Method : C:\TC4\HP58909\998A1232 from C:\TC4\HP58909\998A009.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 29

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	4.771		4511	B	1207	-------	4.5115e-08
2	5.315	TCX	95508	B	27615	7e-15	0.0200
4	6.322		3674	V	963	-------	3.6741e-08
5	6.718		3604	B	874	-------	3.6043e-08
6	6.895	PCB-1232-1	14720	B	3432	-6e-15	0.1000
8	8.117	PCB-1232-2	16198	V	2770	1e-14	0.1000
9	8.813		5220	B	617	-------	5.2205e-08
10	9.091		4984	V	855	-------	4.9842e-08
11	9.320	PCB-1232-3	21882	V	2905	-3e-15	0.1000
12	9.911		7970	B	1355	-------	7.9695e-08
13	10.489		9616	B	1014	-------	9.6165e-08
15	11.783		9090	B	1091	-------	9.0901e-08

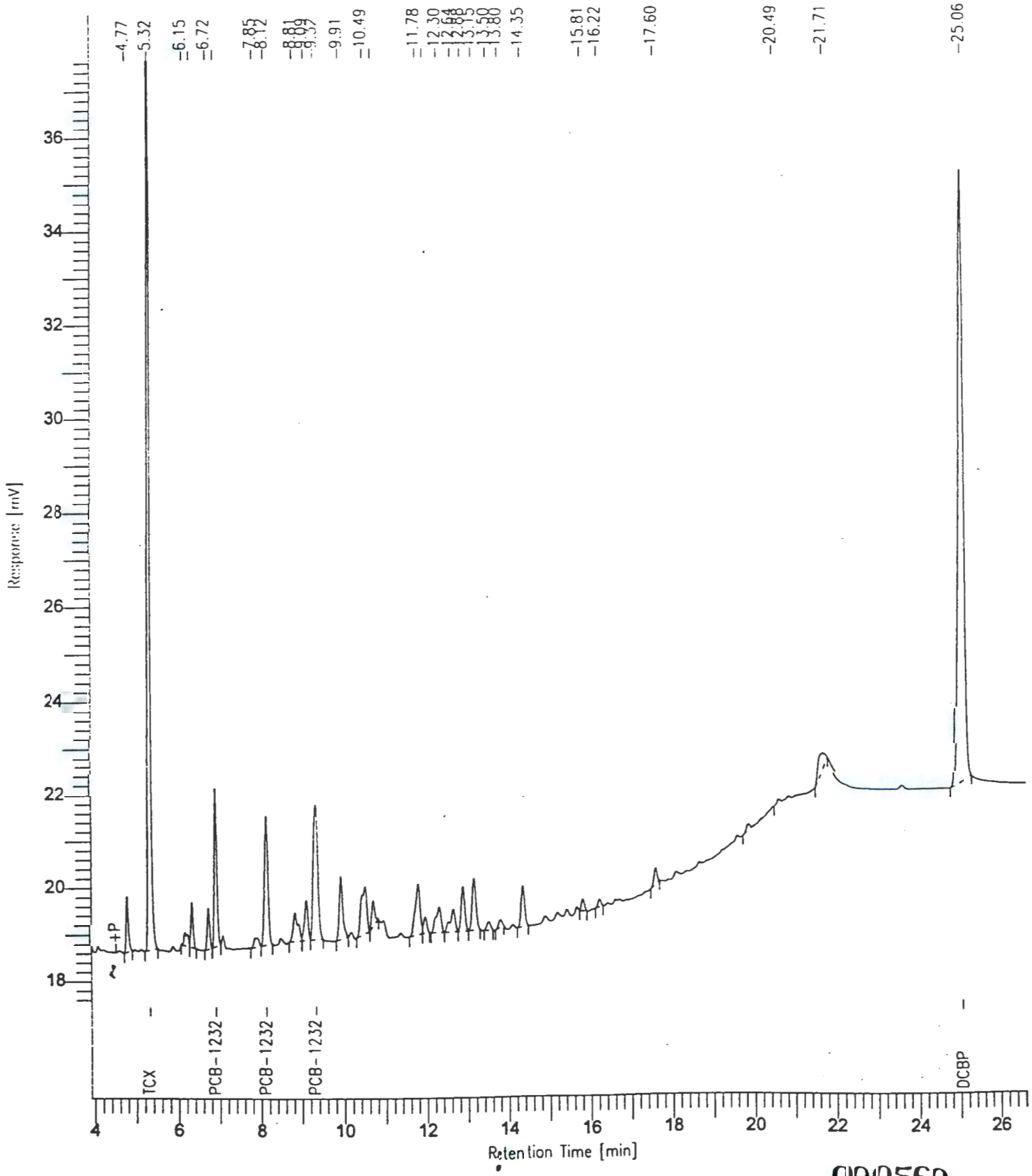
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
17	12.299		4928	B	554	-------	4.9280e-08
18	12.638		4216	B	483	-------	4.2165e-08
19	12.876		5935	V	954	-------	5.9350e-08
20	13.149		7295	B	1109	-------	7.2950e-08
23	14.349		5290	B	877	-------	5.2900e-08
28	21.713		4785	B	306	-------	4.7850e-08
29	25.057	DCBP	113884	B	13008	-6e-15	0.0200
			343312		61988		0.3400

9513355.1654

Chromatogram

Sample Name : ICV*AR1232*1
FileName : C:\TC4\HP58909\998A009.RAW
Method :
Start Time : 3.92 min End Time : 26.62 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/15/94 04:24 PM
Time of Injection: 5/12/94 09:07 PM
Low Point : 17.46 mV High Point : 37.64 mV
Plot Scale: 20.2 mV



000560

9513355.1655

Software Version: 4.0<1C29>
Sample Name : ICV*AR1242*1 Time : 5/15/94 04:25 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/12/94 09:45 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A010.RAW
Result File : C:\TC4\HP58909\998A010.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A010.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A010.RST
Calib Method : C:\TC4\HP58909\998A1242 from C:\TC4\HP58909\998A010.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 37

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.317	TCX	96154	B	28172	-7e-15	0.0200
5	6.898	PCB-1242-1	12710	B	2951	2e-15	0.1000
7	8.121	PCB-1242-2	27561	V	4877	-9e-15	0.1000
10	9.093		8060	B	1486	-------	8.0599e-08
11	9.322	PCB-1242-3	40441	V	5443	0.0000	0.1000
12	9.913		16208	B	2575	-------	1.6208e-07
14	10.490		17934	B	1822	-------	1.7934e-07
15	10.682		5162	B	1063	-------	5.1615e-08
16	11.785		18063	B	2088	-------	1.8063e-07
17	11.956		4864	V	764	-------	4.8641e-08
18	12.298		10347	V	1166	-------	1.0347e-07
19	12.639		9282	B	1085	-------	9.2819e-08

000561

Result File : 998A010.RST, Printed On 5/15/94 04:25 PM

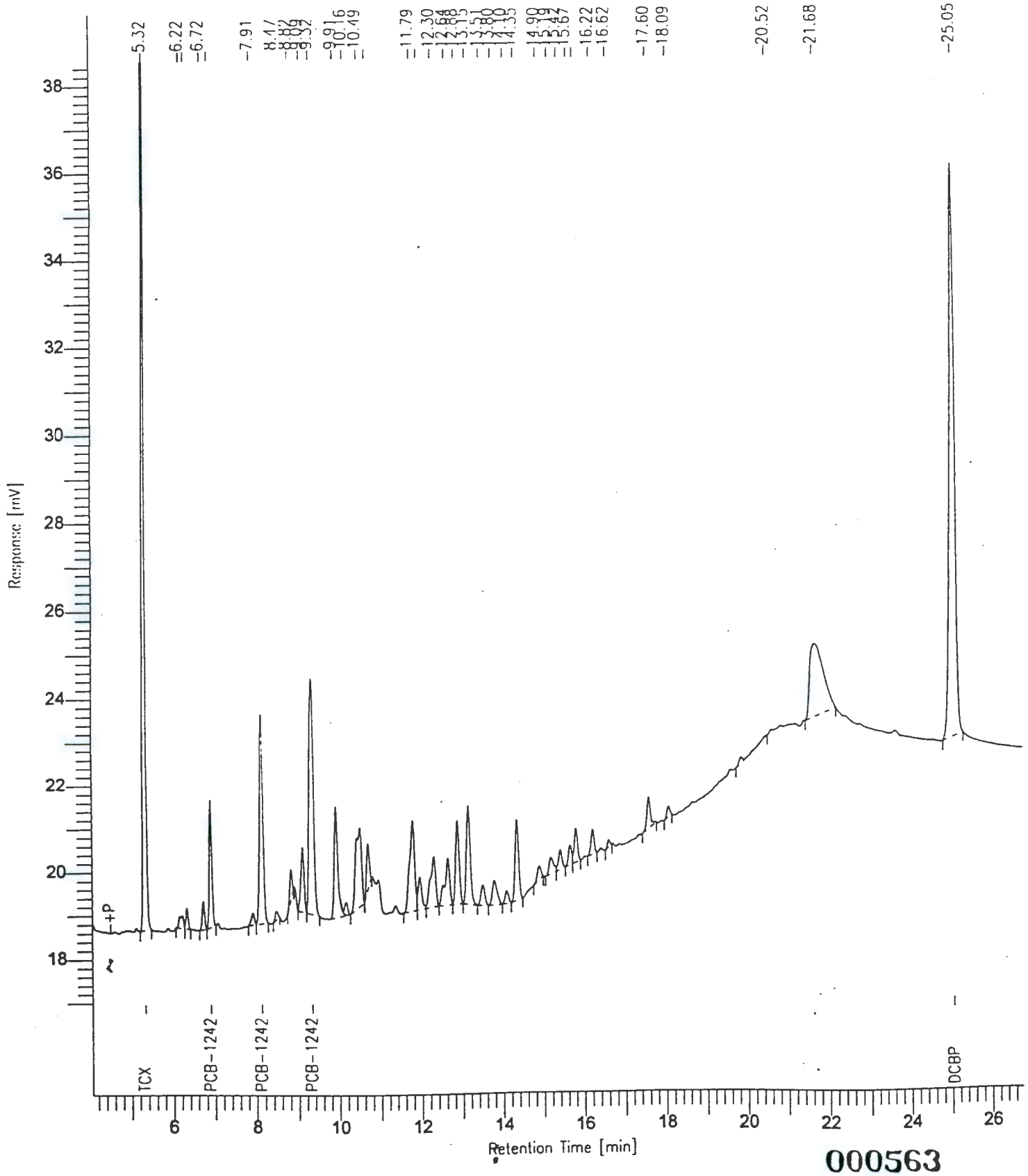
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
20	12.876		12061	V	1936	-------	1.2061e-07
21	13.148		15426	B	2280	-------	1.5426e-07
23	13.795		4708	B	576	-------	4.7078e-08
25	14.350		11259	B	1866	-------	1.1259e-07
30	15.812		4489	V	779	-------	4.4894e-08
33	17.603		4491	B	743	-------	4.4913e-08
36	21.678		37897	B	1671	-------	3.7897e-07
37	25.054	DCBP	115506	B	13101	-5e-15	0.0200
			472623		76447		0.3400

9513355.1657

Chromatogram

Sample Name : ICV*AR1242*1
FileName : C:\TC4\HP58909\998A010.RAW
Method :
Start Time : 4.06 min End Time : 26.77 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/15/94 04:25 PM
Time of Injection: 5/12/94 09:45 PM
Low Point : 16.98 mV High Point : 38.54 mV
Plot Scale: 21.6 mV



000563

9513355.1658

Software Version: 4.0<1C29>
Sample Name : ICV*AR1248*1 Time : 5/15/94 04:25 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/12/94 10:23 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A011.RAW
Result File : C:\TC4\HP58909\998A011.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A011.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A011.RST
Calib Method : C:\TC4\HP58909\998A1248 from C:\TC4\HP58909\998A011.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 36

DATA REPORT

Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)	NG INJECTED
1	5.316	TCX	92874	B	27305	-3e-15	0.0200
5	8.119		12449	B	2346	-------	1.2449e-07
8	9.311	PCB-1248-1	25952	V	3404	3e-15	0.1000
9	9.914		6917	B	1197	-------	6.9168e-08
10	10.156		3364	V	561	-------	3.3643e-08
11	10.495		28123	V	3819	-------	2.8123e-07
12	10.683		26684	V	2720	-------	2.6684e-07
13	10.935		6658	V	1108	-------	6.6581e-08
15	11.789	PCB-1248-2	25996	B	3620	-2e-15	0.1000
16	11.956		7588	V	1222	-------	7.5884e-08
17	12.299		20204	V	2169	-------	2.0204e-07
18	12.641		16979	V	1968	-------	1.6979e-07

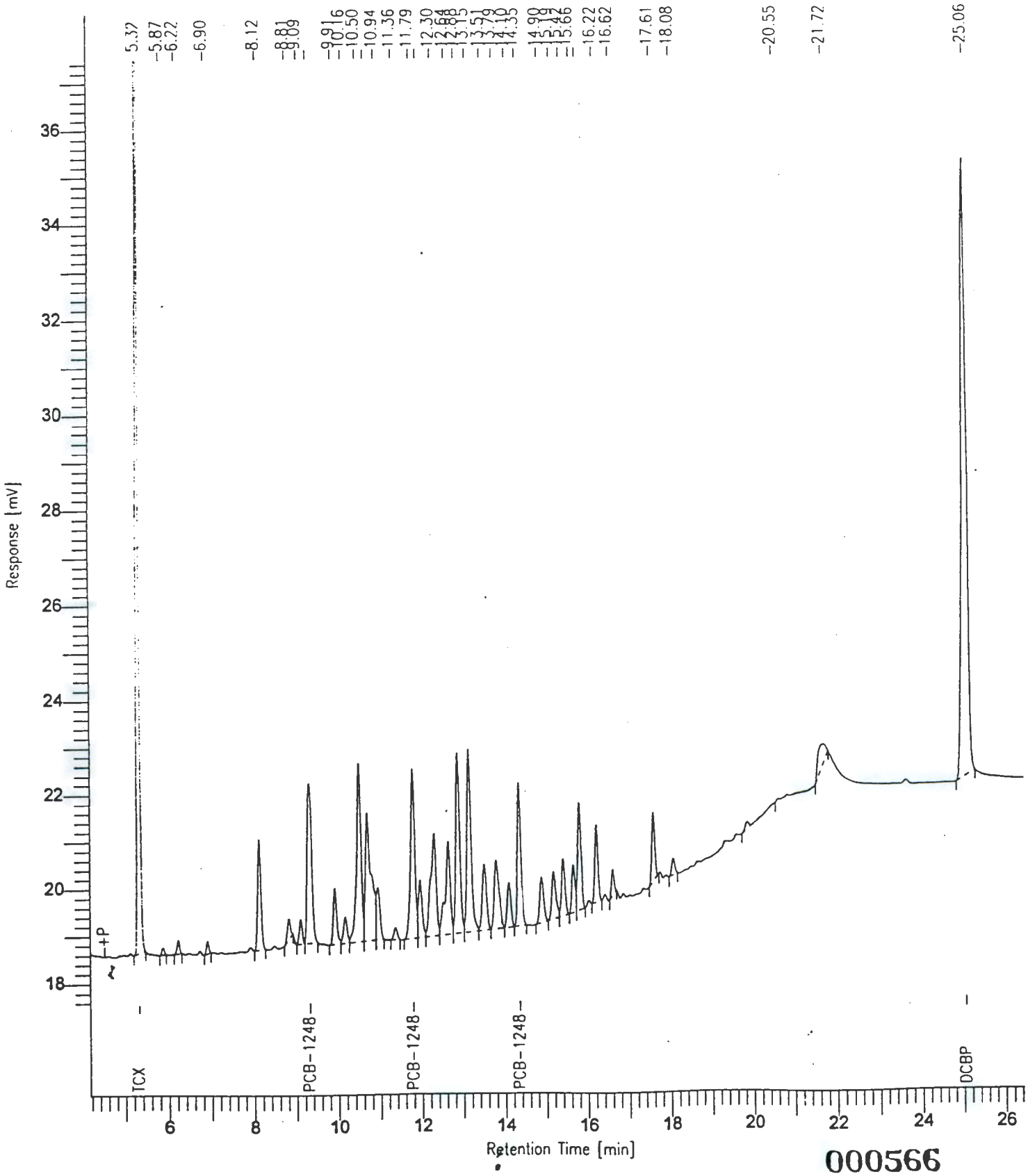
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
19	12.876		25819	V	3853	-------	2.5819e-07
20	13.148		27507	V	3906	-------	2.7507e-07
21	13.510		9861	V	1395	-------	9.8609e-08
22	13.794		12006	V	1456	-------	1.2006e-07
23	14.099		5698	V	953	-------	5.6981e-08
24	14.350	PCB-1248-3	18672	B	3053	-6e-15	0.1000
25	14.895		6596	B	974	-------	6.5959e-08
26	15.186		6998	V	1003	-------	6.9980e-08
27	15.421		7007	V	1208	-------	7.0066e-08
28	15.663		5418	B	999	-------	5.4181e-08
29	15.812		12982	V	2293	-------	1.2982e-07
30	16.224		8720	B	1644	-------	8.7195e-08
32	17.606		7346	B	1468	-------	7.3463e-08
35	21.717		6072	B	382	-------	6.0720e-08
36	25.056	DCBP	112455	B	13009	0.0000	0.0200
			546944		89036		0.3400

9513355.1660

Chromatogram

Sample Name : ICV*AR1248*1
FileName : C:\TC4\HP58909\998A011.RAW
Method :
Start Time : 4.16 min End Time : 26.43 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 04:25 PM
Time of Injection: 5/12/94 10:23 PM
Low Point : 17.59 mV High Point : 37.47 mV
Plot Scale: 19.9 mV



000566

9513355.1661

Software Version: 4.0<1C29>
Sample Name : ICV*AR1254*1 Time : 5/15/94 04:27 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/12/94 11:00 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A012.RAW
Result File : C:\TC4\HP58909\998A012.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A012.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A012.RST
Calib Method : C:\TC4\HP58909\998A1254 from C:\TC4\HP58909\998A012.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 35

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.316	TCX	93429	B	27570	-7e-15	0.0200
3	10.496		17555	B	2905	-------	1.7555e-07
4	10.680		3498	V	626	-------	3.4979e-08
5	11.788		7638	B	1264	-------	7.6385e-08
8	12.878		11814	V	1855	-------	1.1814e-07
10	13.512		31286	B	4363	-------	3.1286e-07
11	13.793	PCB-1254-1	38425	V	5009	9e-16	0.1000
12	14.101		13166	V	2036	-------	1.3166e-07
14	14.894		12039	B	1864	-------	1.2039e-07
15	15.186		13003	V	1990	-------	1.3003e-07
16	15.423		18875	V	3320	-------	1.8875e-07
17	15.665		5397	B	1041	-------	5.3973e-08

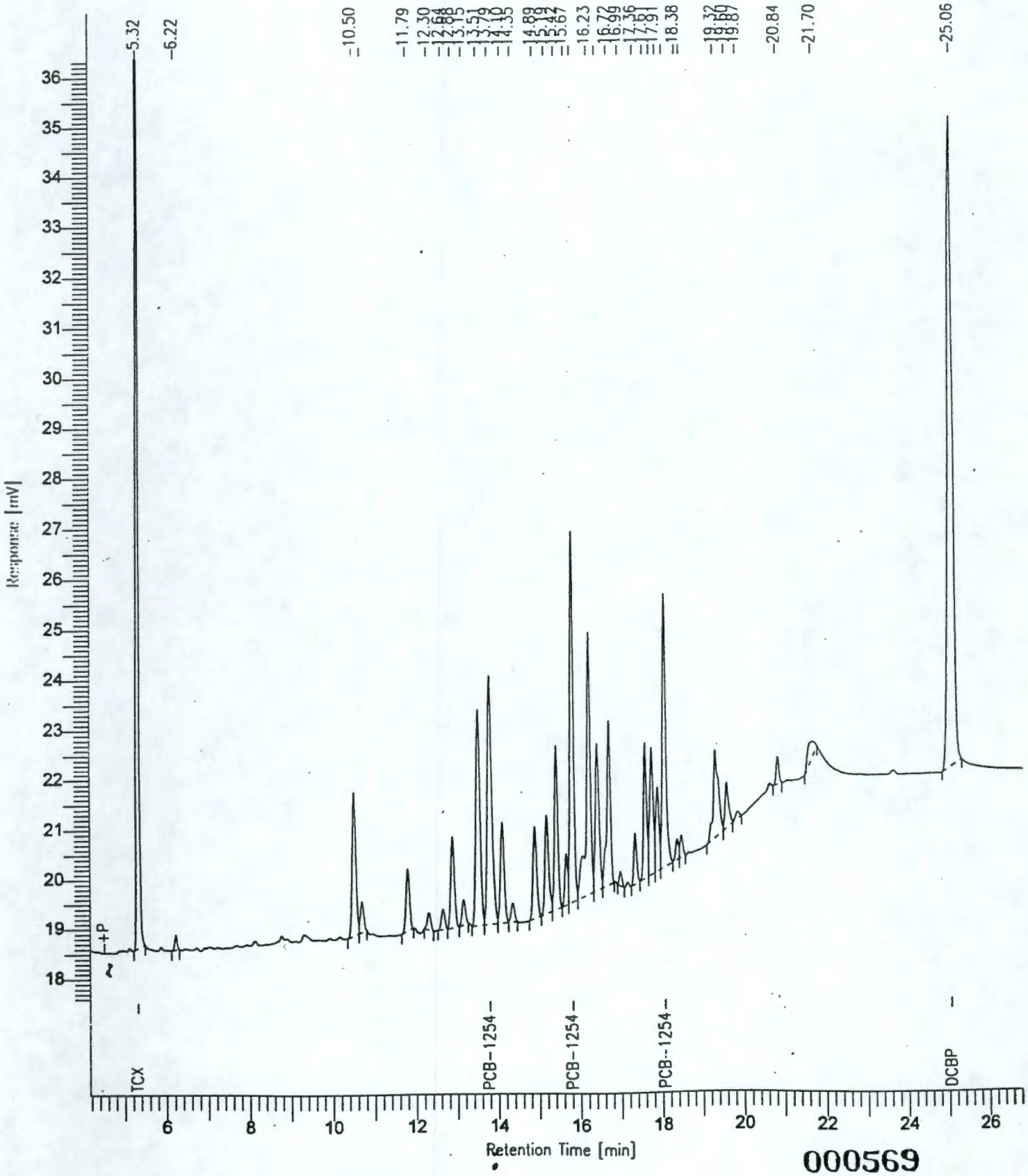
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
18	15.813	PCB-1254-2	43055	V	7464	2e-15	0.1000
19	16.226		37620	V	5259	-------	3.7620e-07
20	16.427		18885	V	2977	-------	1.8885e-07
21	16.716		20884	V	3312	-------	2.0885e-07
23	17.359		5293	B	1039	-------	5.2933e-08
24	17.607		14614	V	2742	-------	1.4614e-07
25	17.766		15510	V	2575	-------	1.5510e-07
26	17.908		9546	V	1697	-------	9.5458e-08
27	18.077	PCB-1254-3	32185	V	5490	4e-15	0.1000
30	19.324		15653	B	1789	-------	1.5653e-07
31	19.600		5614	V	917	-------	5.6141e-08
34	21.701		4254	B	290	-------	4.2545e-08
35	25.058	DCBP	112955	B	12932	-2e-15	0.0200
			602195		102321		0.3400

9513355.1663

Chromatogram

Sample Name : ICV*AR1254*1
FileName : C:\TC4\HP58909\998A012.RAW
Method :
Start Time : 4.16 min End Time : 26.82 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 04:27 PM
Time of Injection: 5/12/94 11:00 PM
Low Point : 17.53 mV High Point : 36.36 mV
Plot Scale: 18.8 mV



000569

9513355.1664

Software Version: 4.0<1C29>
Sample Name : ICV*TOXAPH*1 Time : 5/15/94 04:27 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/12/94 11:38 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A013.RAW
Result File : C:\TC4\HP58909\998A013.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A013.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A013.RST
Calib Method : C:\TC4\HP58909\998ATOX from C:\TC4\HP58909\998A013.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 3333.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 53

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.317	TCX	92108	B	26882	3e-15	0.0200
4	11.602		8932	B	1300	-------	8.9320e-08
7	13.188		6278	B	432	-------	6.2785e-08
8	13.530		15510	V	1768	-------	1.5510e-07
9	13.932		7132	B	1039	-------	7.1325e-08
12	14.677		11008	B	1363	-------	1.1008e-07
13	15.015		12154	B	1950	-------	1.2154e-07
14	15.243		14557	B	2255	-------	1.4557e-07
15	15.414		11410	V	1481	-------	1.1410e-07
16	15.787		7361	B	1506	-------	7.3607e-08
17	15.944		23751	V	2544	-------	2.3751e-07
18	16.238		23482	V	3275	-------	2.3482e-07

000570

Result File : 998A013.RST, Printed On 5/15/94 04:27 PM

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
19	16.429		3844	B	895	-------	3.8435e-08
20	16.883		28105	B	3264	-------	2.8105e-07
21	17.109		59169	V	5205	-------	5.9169e-07
22	17.407	TOXAPHENE-1	87687	V	10195	7e-15	0.5000
23	17.600		11396	V	2413	-------	1.1396e-07
24	17.888		40695	B	3463	-------	4.0695e-07
25	18.122		61678	V	7860	-------	6.1678e-07
26	18.339		45890	V	7608	-------	4.5890e-07
27	18.422		42460	V	7544	-------	4.2460e-07
28	18.541		15454	V	3395	-------	1.5454e-07
29	18.714		63950	V	6788	-------	6.3950e-07
30	18.962		22702	V	4260	-------	2.2702e-07
31	19.100		20380	V	3432	-------	2.0380e-07
32	19.217		27096	V	4583	-------	2.7096e-07
33	19.372		47500	V	4820	-------	4.7500e-07
34	19.663		37350	V	5194	-------	3.7350e-07
35	19.781	TOXAPHENE-2	88362	V	16993	-4e-15	0.5000
36	19.947	TOXAPHENE-3	101133	V	12894	-7e-15	0.5000
37	20.255		10752	V	2416	-------	1.0752e-07
38	20.388		4110	V	797	-------	4.1100e-08
39	20.545		26766	V	4694	-------	2.6766e-07
40	20.660		17724	V	2744	-------	1.7724e-07
41	20.814		42781	V	5542	-------	4.2781e-07
43	21.219		10815	V	1607	-------	1.0815e-07
44	21.495		5904	B	1293	-------	5.9038e-08
45	21.809		9023	B	1321	-------	9.0229e-08
46	21.927		6709	V	1146	-------	6.7094e-08
47	22.327		8669	B	1401	-------	8.6690e-08
49	22.867		4588	V	603	-------	4.5879e-08
50	23.076		9193	V	925	-------	9.1926e-08
53	25.060	DCBP	109994	V	12537	9e-16	0.0200
			1305559		193631		1.5400

9513355.1666

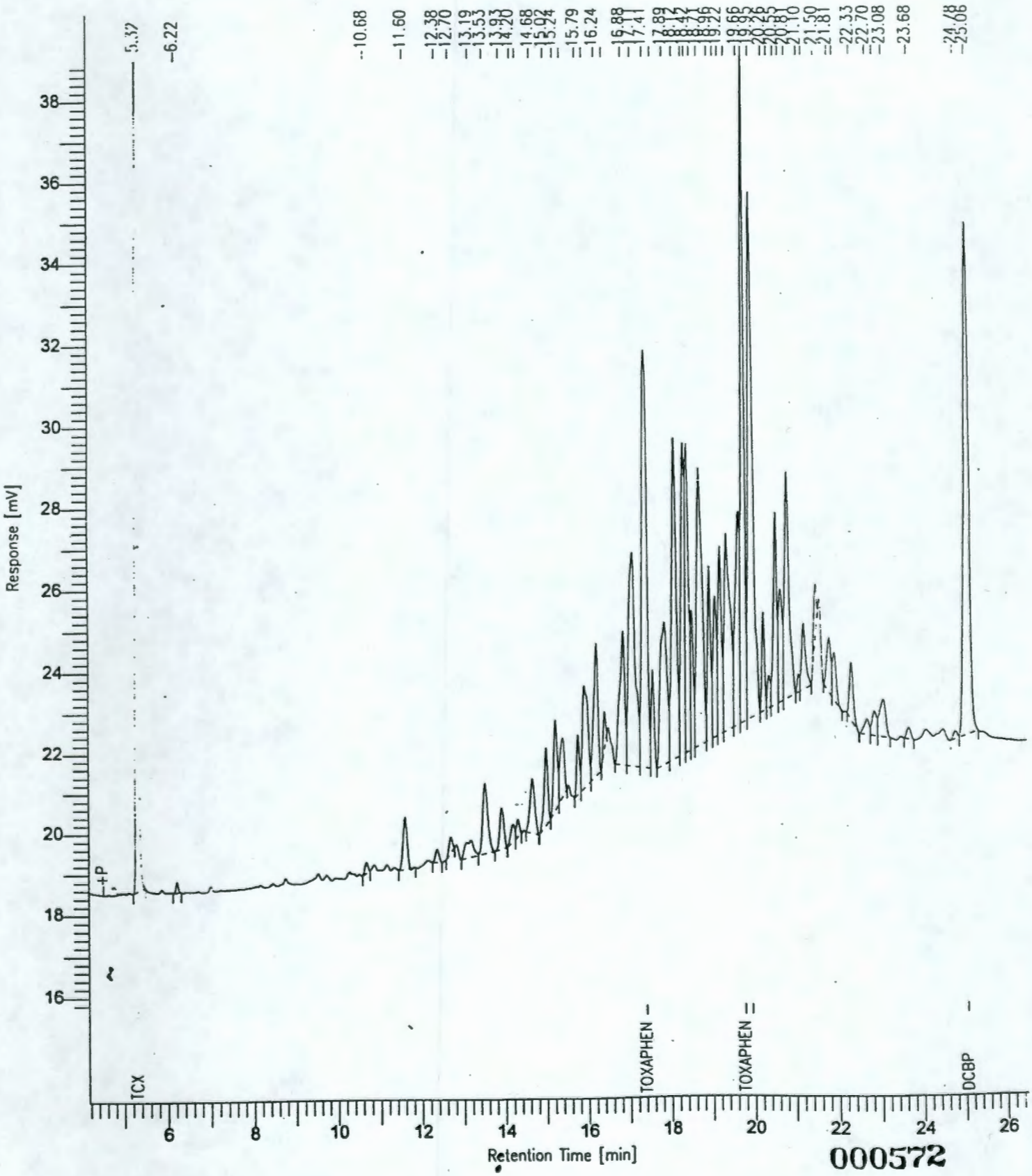
Chromatogram

Sample Name : ICV*TOXAPH*1
FileName : C:\TC4\HP58909\998A013.RAW
Method :
Start Time : 4.16 min
Scale Factor: 0.0

End Time : 26.48 min
Plot Offset: 16 mV

Sample #:
Date : 5/15/94 04:27 PM
Time of Injection: 5/12/94 11:38 PM
Low Point : 15.72 mV
Plot Scale: 23.3 mV

High Point : 38.97 mV



000572

9513355.1667

Software Version: 4.0<1C29>
Sample Name : ICV*INDAL*1 Time : 5/15/94 04:28 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/13/94 12:16 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A014.RAW
Result File : C:\TC4\HP58909\998A014.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A014.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A014.RST
Calib Method : C:\TC4\HP58909\998AAL from C:\TC4\HP58909\998A014.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 16

DATA REPORT

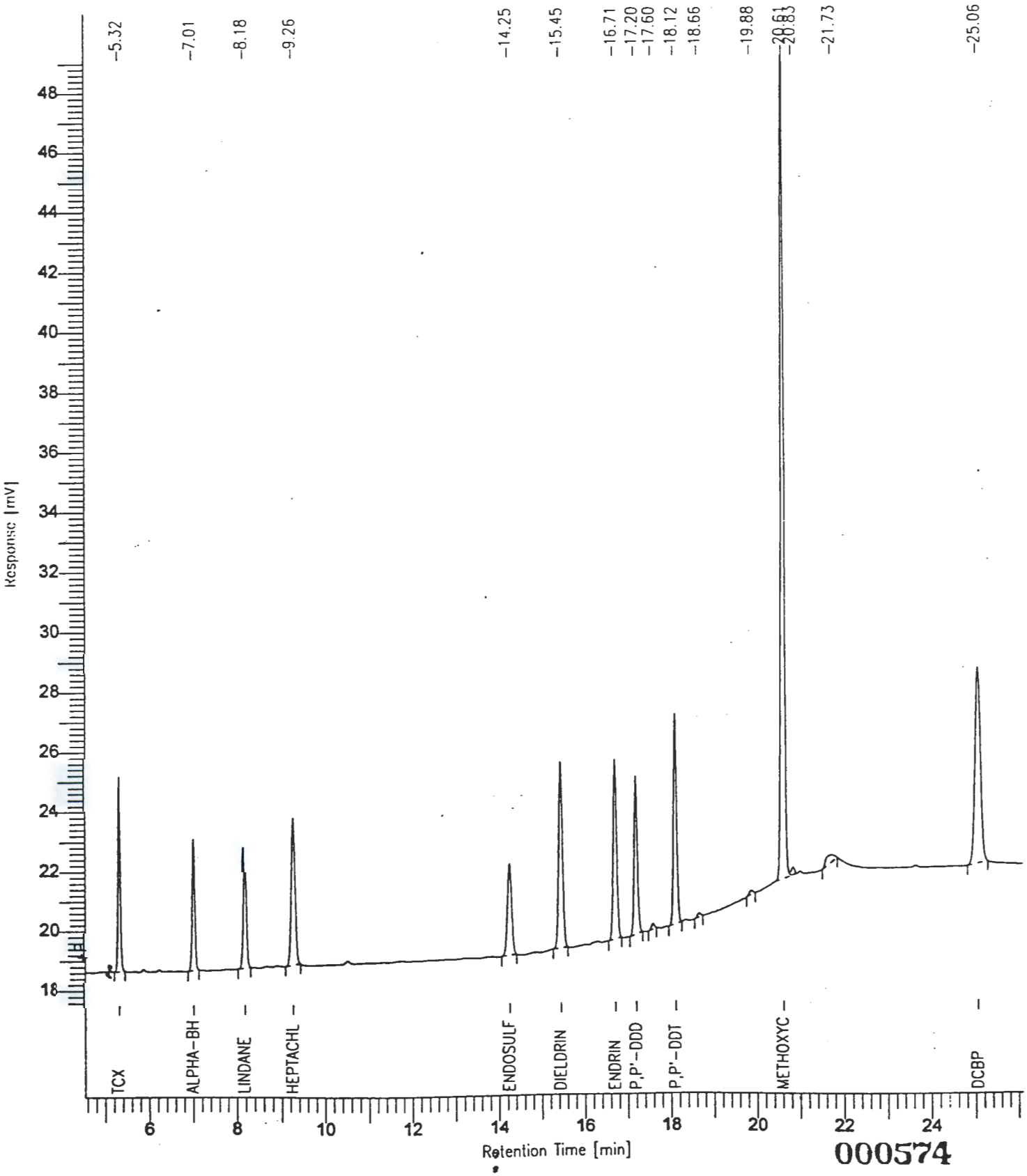
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.316	TCX	22190	B	6519	6e-15	0.0050
2	7.007	ALPHA-BHC	18188	B	4410	3e-15	0.0050
3	8.181	LINDANE	19116	B	4061	-7e-15	0.0050
4	9.262	HEPTACHLOR	30096	B	4950	-3e-15	0.0050
5	14.249	ENDOSULFAN A	20868	B	3063	-2e-15	0.0050
6	15.445	DIELDRIN	38624	B	6290	2e-15	0.0100
7	16.712	ENDRIN	34226	B	6098	-9e-15	0.0100
8	17.199	P,P'-DDD	27864	B	5327	0.0000	0.0100
10	18.117	P,P'-DDT	35594	B	7097	-8e-15	0.0100
13	20.611	METHOXYCHLOR	147792	B	30121	8e-15	0.0500
16	25.059	DCBP	57986	B	6557	2e-15	0.0100

9513355.1668

Chromatogram

Sample Name : ICV*INDAL*1
FileName : C:\TC4\HP58909\998A014.RAW
Method :
Start Time : 4.54 min End Time : 26.09 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 04:28 PM
Time of Injection: 5/13/94 12:16 AM
Low Point : 17.53 mV High Point : 49.11 mV
Plot Scale: 31.6 mV



000574

9513355.1669

Software Version: 4.0<1C29>
Sample Name : ICV*INDBL*1 Time : 5/15/94 04:30 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/13/94 12:54 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A015.RAW
Result File : C:\TC4\HP58909\998A015.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A015.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A015.RST
Calib Method : C:\TC4\HP58909\998ABL from C:\TC4\HP58909\998A015.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 16

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.316	TCX	21389	B	6210	3e-15	0.0050
2	8.402	BETA-BHC	13314	B	2803	-3e-15	0.0050
3	9.673	DELTA-BHC	15855	B	3066	-9e-15	0.0050
4	10.454	ALDRIN	20424	B	3108	3e-15	0.0050
5	12.750	HEPTACHLOR EPOXIDE	23348	B	3270	0.0000	0.0050
6	13.461	GAMMA-CHLORDANE	27658	B	3752	0.0000	0.0050
7	14.167	ALPHA-CHLORDANE	26521	B	3825	-5e-15	0.0050
8	15.267	P,P'-DDE	34984	B	5806	2e-15	0.0100
9	17.322	ENDOSULFAN B	36072	B	6619	1e-14	0.0100
11	18.353	ENDRIN ALDEHYDE	30827	B	5963	-6e-15	0.0100
12	18.716	ENDOSULFAN SULFATE	39420	V	7662	-9e-15	0.0100
14	20.837	ENDRIN KETONE	36826	B	7361	5e-15	0.0100

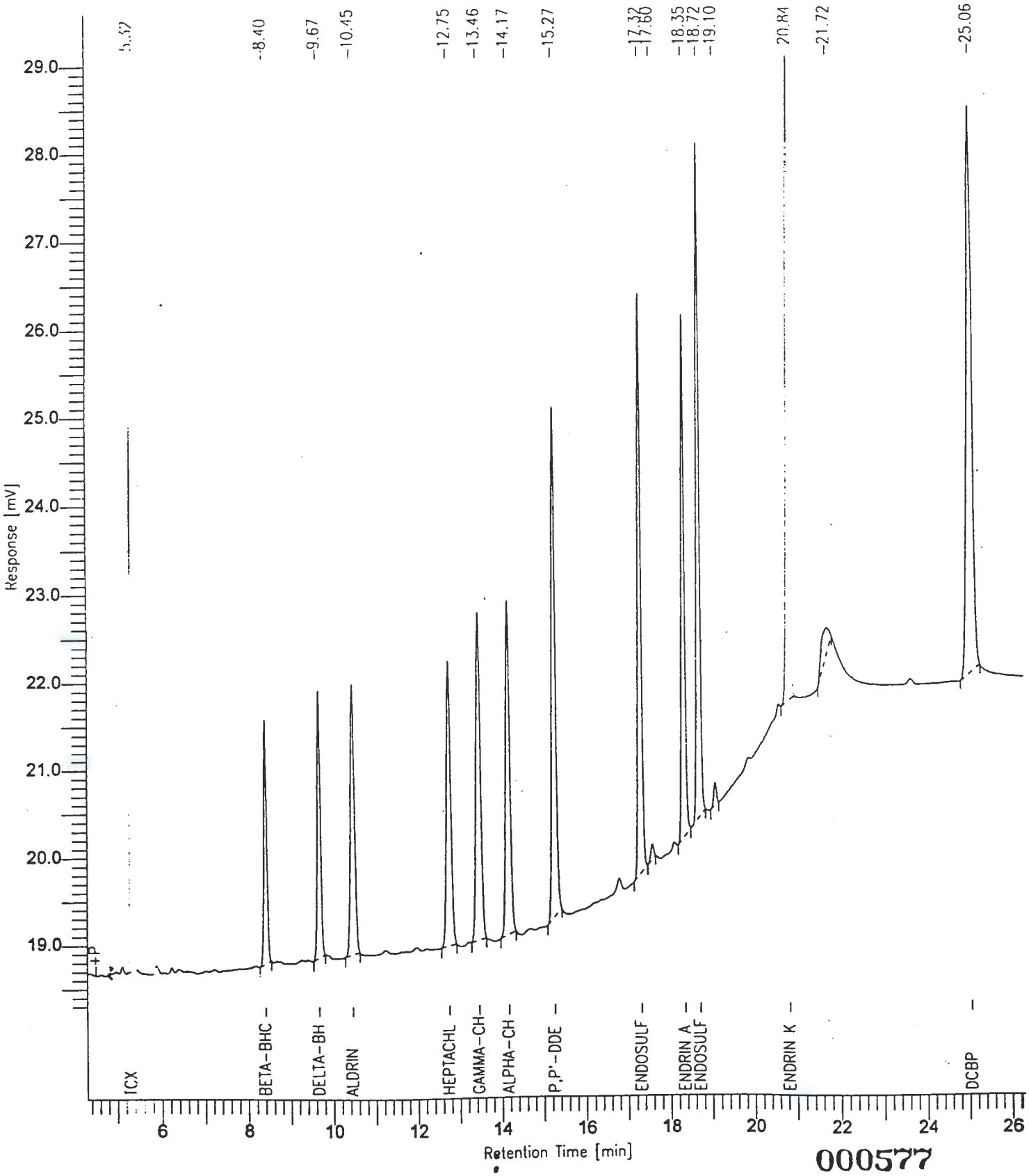
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
16	25.057	DCBP	56330	B	6433	-6e-15	0.0100
			382968		65877		0.0950

9513355.1671

Chromatogram

Sample Name : ICV*INDBL*1
FileName : C:\TC4\HP58909\998A015.RAW
Method :
Start Time : 4.30 min End Time : 26.28 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 04:29 PM
Time of Injection: 5/13/94 12:54 AM
Low Point : 18.30 mV High Point : 29.06 mV
Plot Scale: 10.8 mV



000577

9513355.1672

Software Version: 4.0<1C29>
Sample Name : ICV*INDAM*1 Time : 5/15/94 04:31 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/13/94 01:32 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A016.RAW
Result File : C:\TC4\HP58909\998A016.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A016.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A016.RST
Calib Method : C:\TC4\HP58909\998AAM from C:\TC4\HP58909\998A016.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 20

DATA REPORT

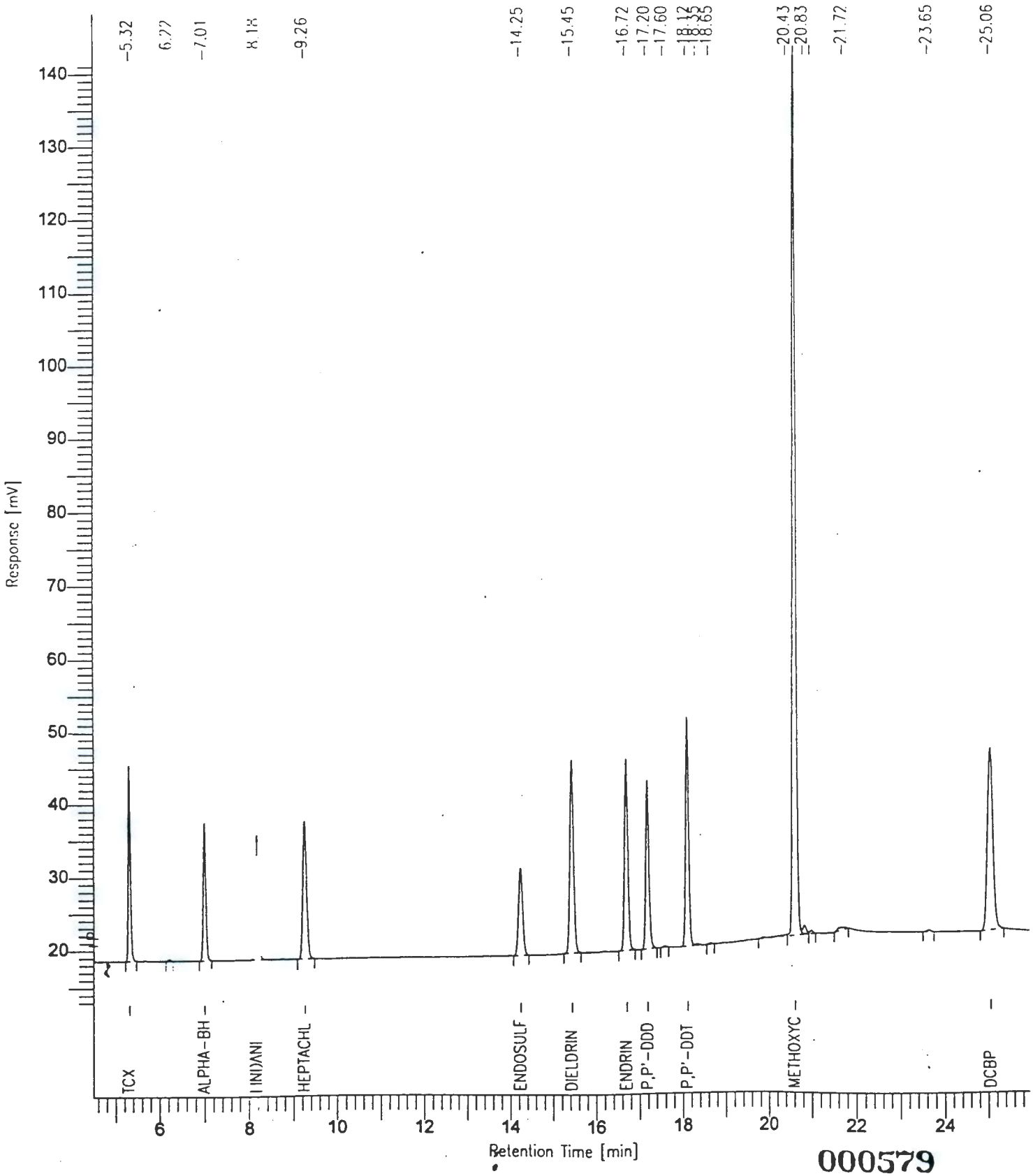
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.317	TCX	91594	B	26814	0.0000	0.0200
3	7.008	ALPHA-BHC	75464	B	18832	6e-15	0.0200
4	8.180	LINDANE	78138	B	17173	-1e-15	0.0200
5	9.261	HEPTACHLOR	114014	B	18907	4e-15	0.0200
6	14.249	ENDOSULFAN A	79716	B	11922	5e-15	0.0200
7	15.448	DIELDRIN	157834	B	26713	2e-15	0.0400
8	16.715	ENDRIN	142637	B	26522	3e-15	0.0400
9	17.200	P,P'-DDD	117545	B	23194	1e-15	0.0400
11	18.119	P,P'-DDT	153714	B	31699	9e-15	0.0400
15	20.611	METHOXYCHLOR	641828	V	126866	2e-15	0.2000
20	25.057	DCBP	220472	B	25075	7e-15	0.0400

9513355.1673

Chromatogram

Sample Name : ICV*INDAM*1
FileName : C:\TC4\HP58909\998A016.RAW
Method :
Start Time : 4.49 min End Time : 25.95 min
Scale Factor: 0.0 Plot Offset: 13 mV

Sample #:
Date : 5/15/94 04:31 PM
Time of Injection: 5/13/94 01:32 AM
Low Point : 12.75 mV High Point : 141.80 mV
Plot Scale: 129.1 mV



000579

9513355.1674

Software Version: 4.0<1C29>
Sample Name : ICV*INDBM*1 Time : 5/15/94 04:31 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/13/94 02:10 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A017.RAW
Result File : C:\TC4\HP58909\998A017.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A017.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A017.RST
Calib Method : C:\TC4\HP58909\998ABM from C:\TC4\HP58909\998A017.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 24

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.317	TCX	92388	B	27200	6e-15	0.0200
6	8.403	BETA-BHC	55701	B	11878	8e-15	0.0200
7	9.673	DELTA-BHC	66882	B	13540	5e-15	0.0200
8	10.455	ALDRIN	83190	B	13206	-3e-15	0.0200
9	12.750	HEPTACHLOR EPOXIDE	92100	B	13285	0.0000	0.0200
10	13.461	GAMMA-CHLORDANE	109957	B	15008	-4e-15	0.0200
11	14.167	ALPHA-CHLORDANE	108802	B	15722	6e-15	0.0200
12	15.270	P,P'-DDE	152883	B	26653	3e-15	0.0400
14	17.324	ENDOSULFAN B	147685	B	28205	0.0000	0.0400
16	18.353	ENDRIN ALDEHYDE	125190	B	24013	-8e-15	0.0400
17	18.719	ENDOSULFAN SULFATE	163170	V	32570	3e-15	0.0400
21	20.841	ENDRIN KETONE	161838	V	32686	5e-15	0.0400

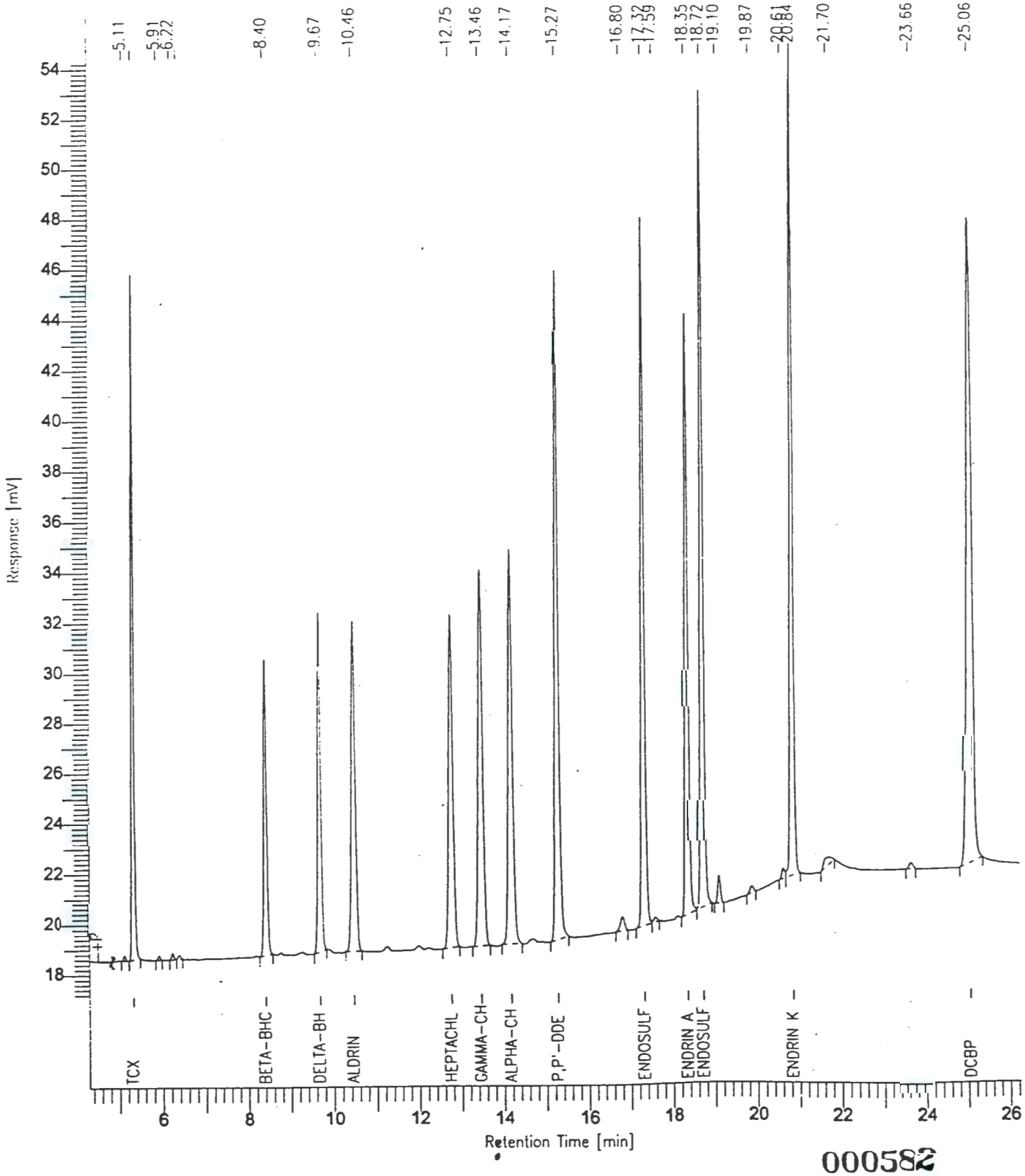
000580

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
24	25.061	DCBP	225244	B	25673	-4e-15	0.0400
			1585032		279638		0.3800

Chromatogram

Sample Name : ICV*INDBM*1
FileName : C:\TC4\HP58909\998A017.RAW
Method :
Start Time : 4.30 min End Time : 26.24 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/15/94 04:31 PM
Time of Injection: 5/13/94 02:10 AM
Low Point : 17.15 mV High Point : 54.38 mV
Plot Scale: 37.2 mV



9513555.1677

Software Version: 4.0<1C29>
Sample Name : ICV*INDAH*1 Time : 5/15/94 04:33 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/13/94 02:47 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A018.RAW
Result File : C:\TC4\HP58909\998A018.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A018.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A018.RST
Calib Method : C:\TC4\HP58909\998AAH from C:\TC4\HP58909\998A018.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 26

DATA REPORT

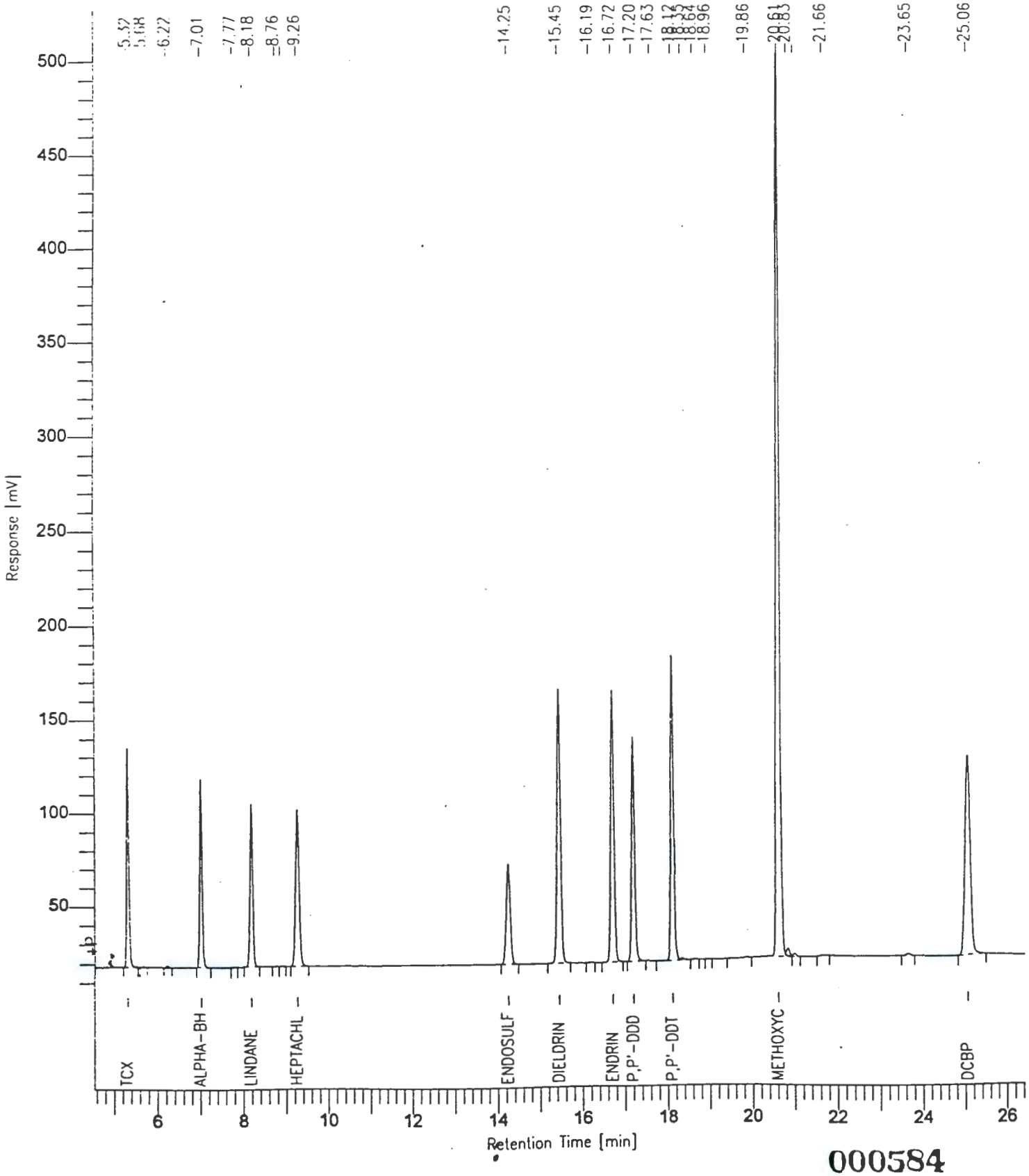
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.317	TCX	415222	B	117184	-7e-15	0.0800
4	7.009	ALPHA-BHC	386143	B	99855	-8e-16	0.0800
6	8.183	LINDANE	380992	B	86484	-1e-15	0.0800
9	9.263	HEPTACHLOR	487375	B	83979	-4e-15	0.0800
10	14.251	ENDOSULFAN A	339455	B	53198	-3e-15	0.0800
11	15.450	DIELDRIN	827213	B	146278	5e-15	0.1600
13	16.716	ENDRIN	752194	B	145112	-3e-15	0.1600
14	17.200	P,P'-DDD	596144	B	120165	6e-15	0.1600
16	18.120	P,P'-DDT	797848	B	163662	4e-15	0.1600
21	20.611	METHOXYCHLOR	2666594	B	508612	8e-15	0.8000
26	25.063	DCBP	917798	B	106535	-2e-15	0.1600

9513355.1678

Chromatogram

Sample Name : ICV*INDAH*1
FileName : C:\TC4\HP58909\998A018.RAW
Method :
Start Time : 4.54 min End Time : 26.43 min
Scale Factor: 0.0 Plot Offset: 3 mV

Sample #:
Date : 5/15/94 04:33 PM
Time of Injection: 5/13/94 02:47 AM
Low Point : 2.90 mV High Point : 502.21 mV
Plot Scale: 499.3 mV



000584

Software Version: 4.0<1C29>
Sample Name : ICV*INDBH*1 Time : 5/15/94 04:33 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/13/94 03:25 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A019.RAW
Result File : C:\TC4\HP58909\998A019.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A019.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A019.RST
Calib Method : C:\TC4\HP58909\998ABH from C:\TC4\HP58909\998A019.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 32

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
2	5.317	TCX	422020	B	119329	8e-15	0.0800
7	8.402	BETA-BHC	234910	B	50143	1e-14	0.0800
11	9.673	DELTA-BHC	316672	B	67212	-1e-15	0.0800
12	10.456	ALDRIN	402574	B	67339	3e-15	0.0800
16	12.751	HEPTACHLOR EPOXIDE	392385	B	58860	-7e-15	0.0800
17	13.462	GAMMA-CHLORDANE	455446	B	63834	5e-15	0.0800
18	14.169	ALPHA-CHLORDANE	469754	B	68604	-6e-15	0.0800
20	15.272	P,P'-DDE	818542	B	151616	0.0000	0.1600
22	17.325	ENDOSULFAN B	662055	B	130009	-1e-14	0.1600
24	18.355	ENDRIN ALDEHYDE	514470	B	102504	8e-15	0.1600
25	18.720	ENDOSULFAN SULFATE	748133	B	148724	-3e-15	0.1600
29	20.841	ENDRIN KETONE	742447	V	149140	3e-15	0.1600

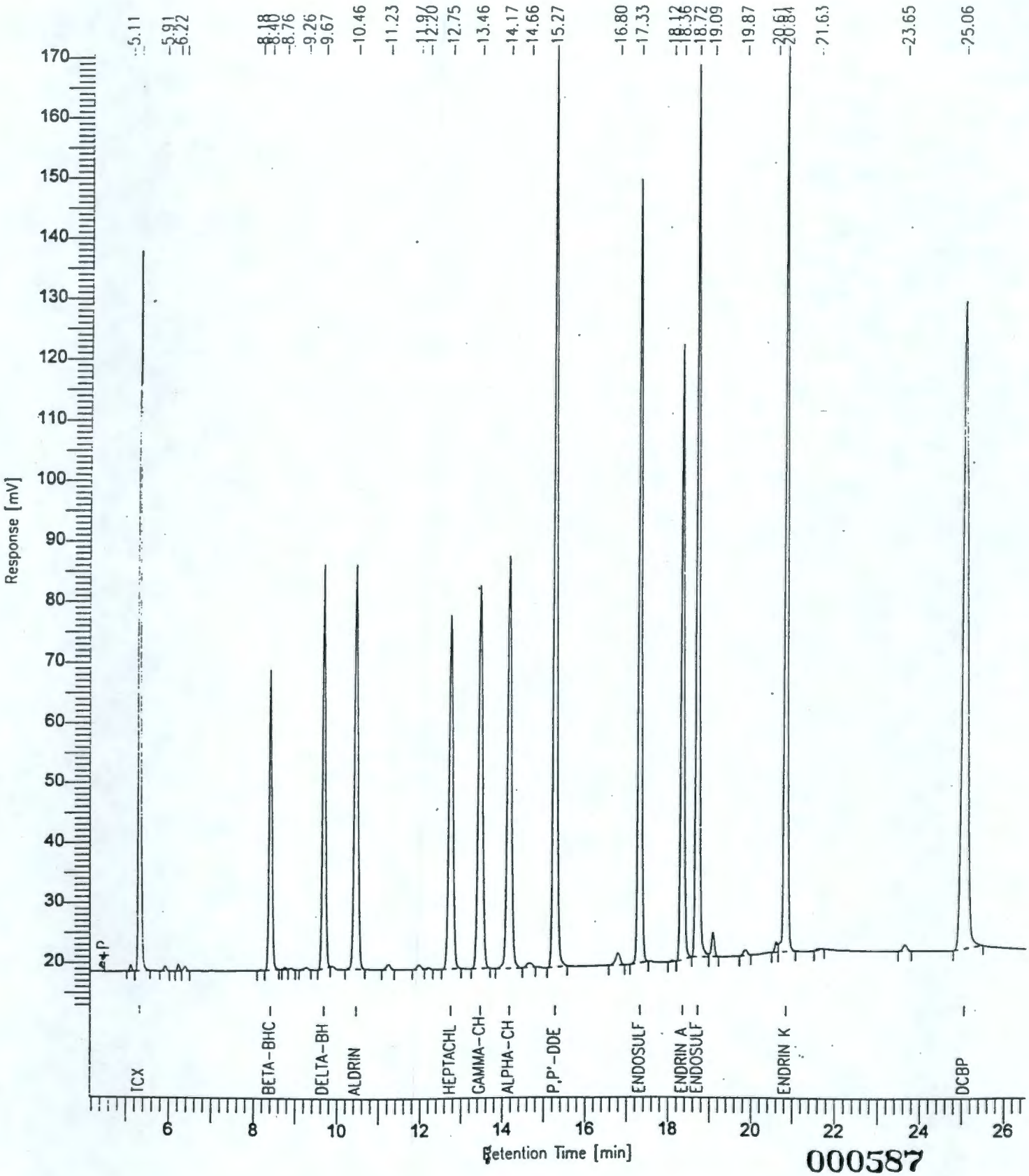
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
32	25.064	DCBP	934289	B	107356	6e-15	0.1600
			7113698		1284671		1.5200

9513355.1681

Chromatogram

Sample Name : ICV*INDBH*1
FileName : C:\TC4\HP58909\998A019.RAW
Method :
Start Time : 4.16 min End Time : 26.52 min
Scale Factor: 0.0 Plot Offset: 13 mV

Sample #:
Date : 5/15/94 04:33 PM
Time of Injection: 5/13/94 03:25 AM
Low Point : 12.96 mV High Point : 170.33 mV
Plot Scale: 157.4 mV



000587

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*1 Time : 5/15/94 07:53 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/13/94 04:03 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A020.RAW
Result File : C:\TC4\HP58909\998A020.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A020.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A020.RST
Calib Method : C:\TC4\HP58909\998A from C:\TC4\HP58909\998A020.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 6016.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 24

DATA REPORT

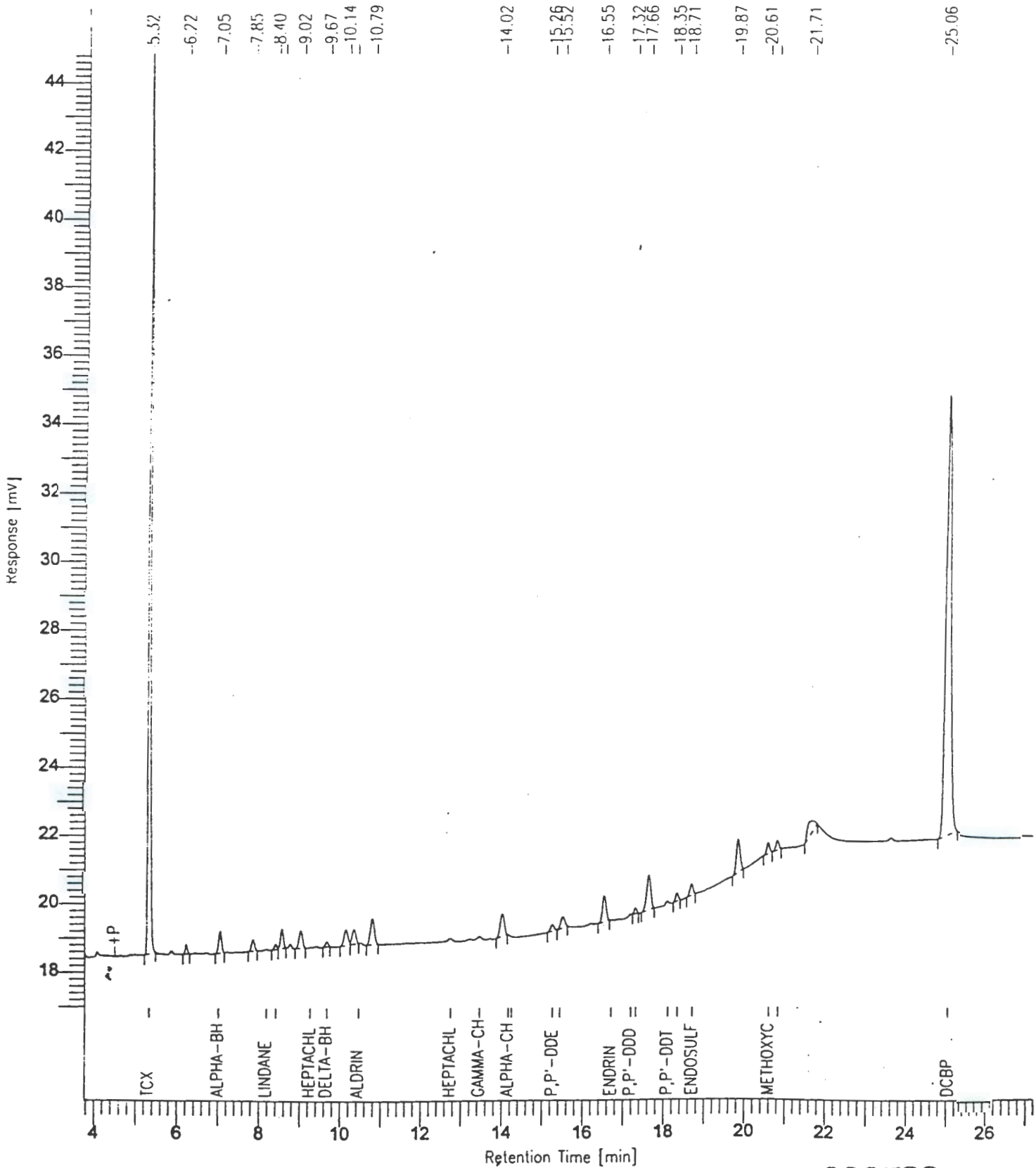
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.317	TCX	91642	B	27053	-0.0032
17	17.660		7440	B	1030	-------
20	19.866		6332	B	983	-------
24	25.060	DCBP	113163	B	12873	0.0028
			218576		41939	

9513355.1683

Chromatogram

ample Name : MB*PIBLK*1
ileName : C:\TC4\HP58909\998A020.RAW
ethod :
tart Time : 3.77 min End Time : 27.21 min
cale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/15/94 07:53 PM
Time of Injection: 5/13/94 04:03 AM
Low Point : 16.97 mV High Point : 44.81 mV
Plot Scale: 27.8 mV



000589

9513555.1604

Software Version: 4.0<1C29>
Sample Name : CK*PEM*2 Time : 5/15/94 07:55 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/13/94 04:41 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A021.RAW
Result File : C:\TC4\HP58909\998A021.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A021.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A021.RST
Calib Method : C:\TC4\HP58909\998APEM from C:\TC4\HP58909\998A021.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 18

DATA REPORT

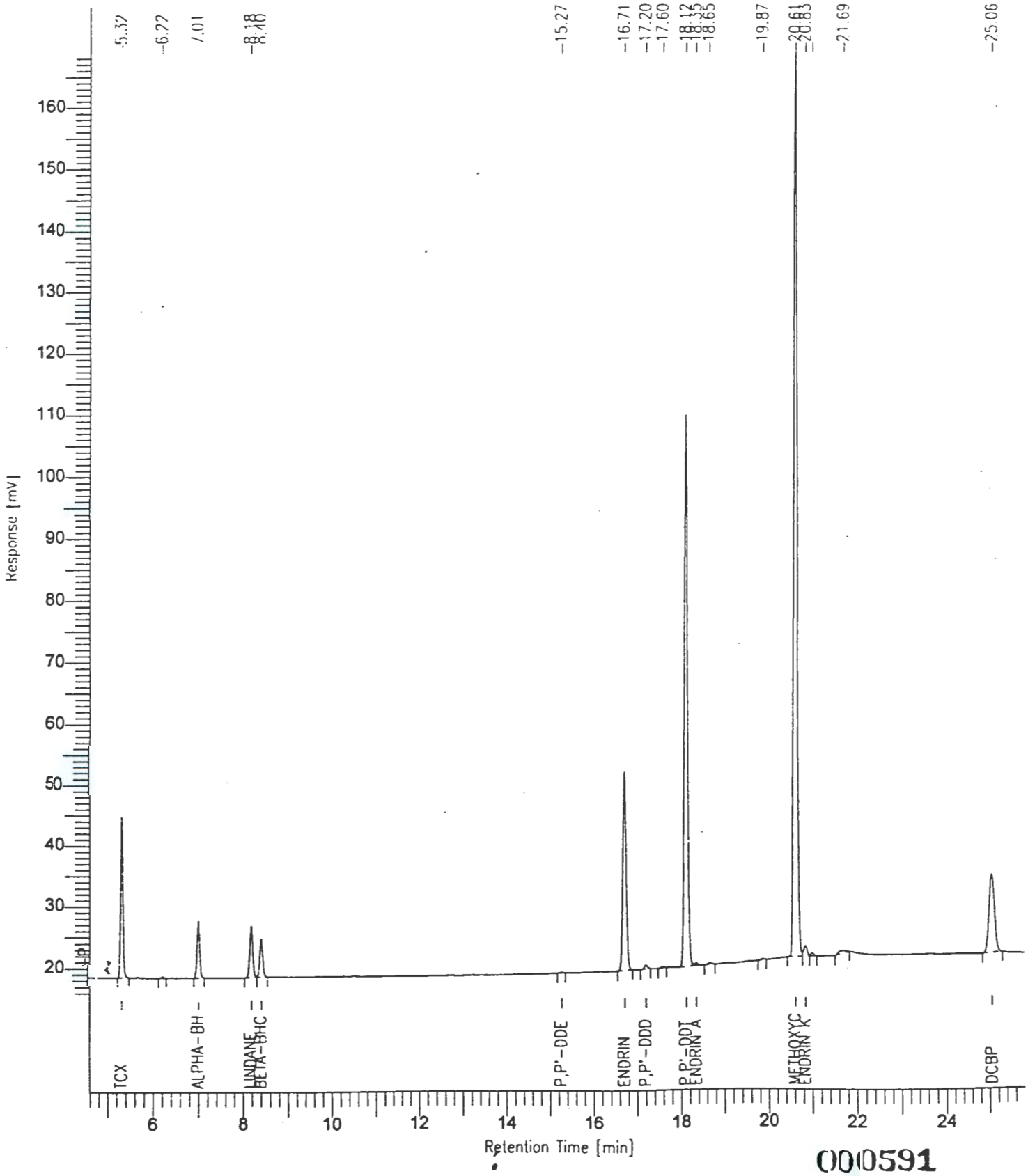
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.317	TCX	89026	B	26148	-0.0083
3	7.006	ALPHA-BHC	37119	B	9230	-0.0219
4	8.180	LINDANE	38137	B	8322	-0.0047
5	8.400	BETA-BHC	28478	V	6192	-0.0333
6	15.273	P,P'-DDE	890	B	169	0.0172
7	16.714	ENDRIN	172847	B	32633	-0.0075
8	17.200	P,P'-DDD	3442	B	655	0.0007
10	18.121	P,P'-DDT	439701	B	90537	0.0105
11	18.349	ENDRIN ALDEHYDE	2410	E	439	-0.0216
14	20.611	METHOXYCHLOR	777583	B	153254	0.0006
15	20.834	ENDRIN KETONE	9031	V	1730	-0.0329
18	25.057	DCBP	110978	B	12818	-0.0093

9513355.1685

Chromatogram

Sample Name : CK*PEM*2
FileName : C:\TC4\HP58909\998A021.RAW
Method :
Start Time : 4.59 min End Time : 25.80 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 5/15/94 07:55 PM
Time of Injection: 5/13/94 04:41 AM
Low Point : 15.07 mV High Point : 168.62 mV
Plot Scale: 153.5 mV



000591

Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 5/15/94 08:30 PM
Sample Number:
Study :
Operator : VIC

Instrument : HP58909
Channel : A
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 5/13/94 02:46 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A037.RAW
Result File : C:\TC4\HP58909\998A037.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A037.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A037.RST
Calib Method : C:\TC4\HP58909\998A from C:\TC4\HP58909\998A037.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul
Area Reject : 6016.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 15
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 3

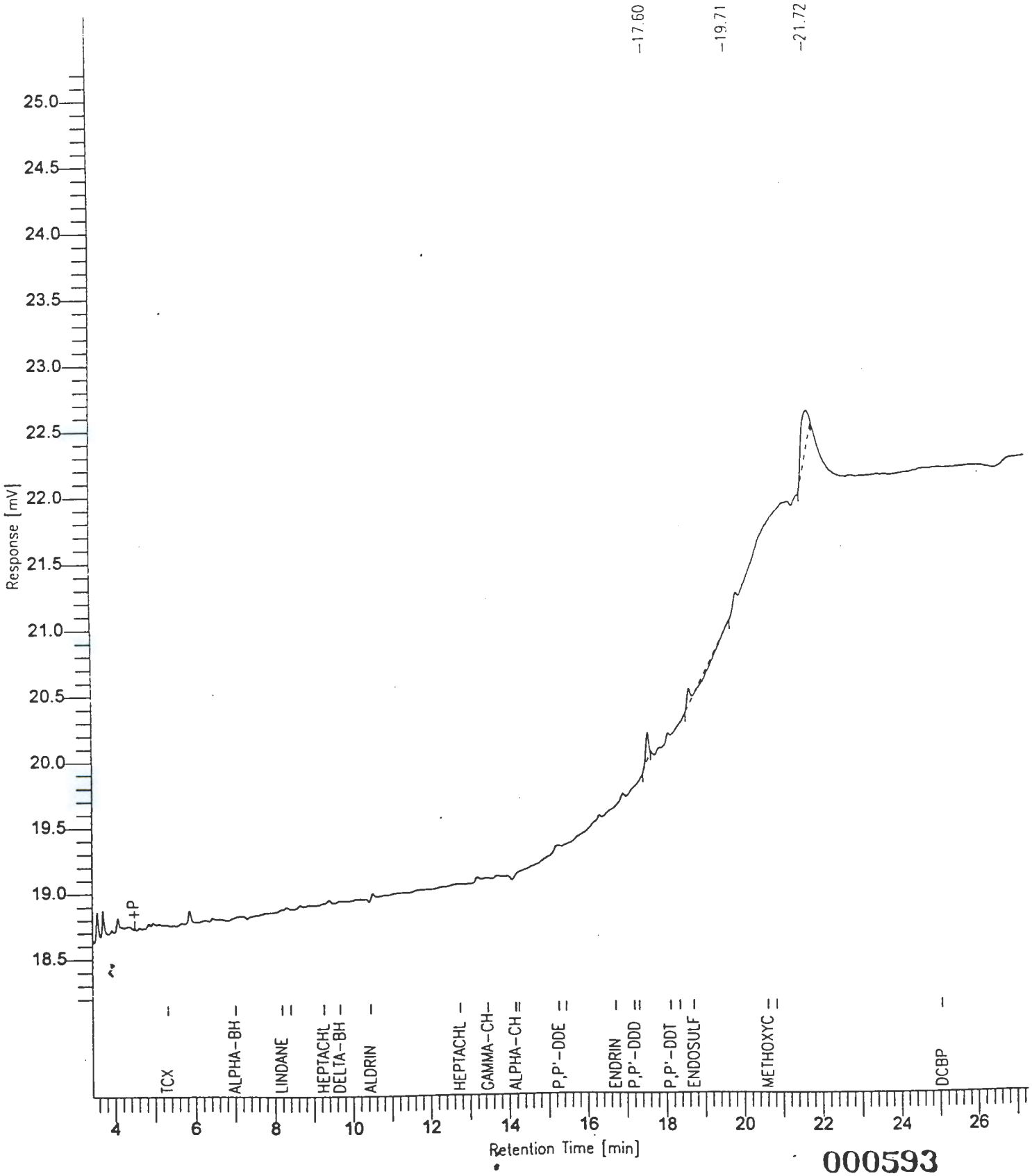
DATA REPORT

No peaks available to report

9513555.1682 Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\998A037.RAW
Method :
Start Time : 3.43 min End Time : 27.30 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 08:30 PM
Time of Injection: 5/13/94 02:46 PM
Low Point : 18.15 mV High Point : 25.30 mV
Plot Scale: 7.1 mV



000593

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*2 Time : 5/15/94 07:58 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/13/94 03:24 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A038.RAW
Result File : C:\TC4\HP58909\998A038.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A038.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A038.RST
Calib Method : C:\TC4\HP58909\998A from C:\TC4\HP58909\998A038.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 6016.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 5

DATA REPORT

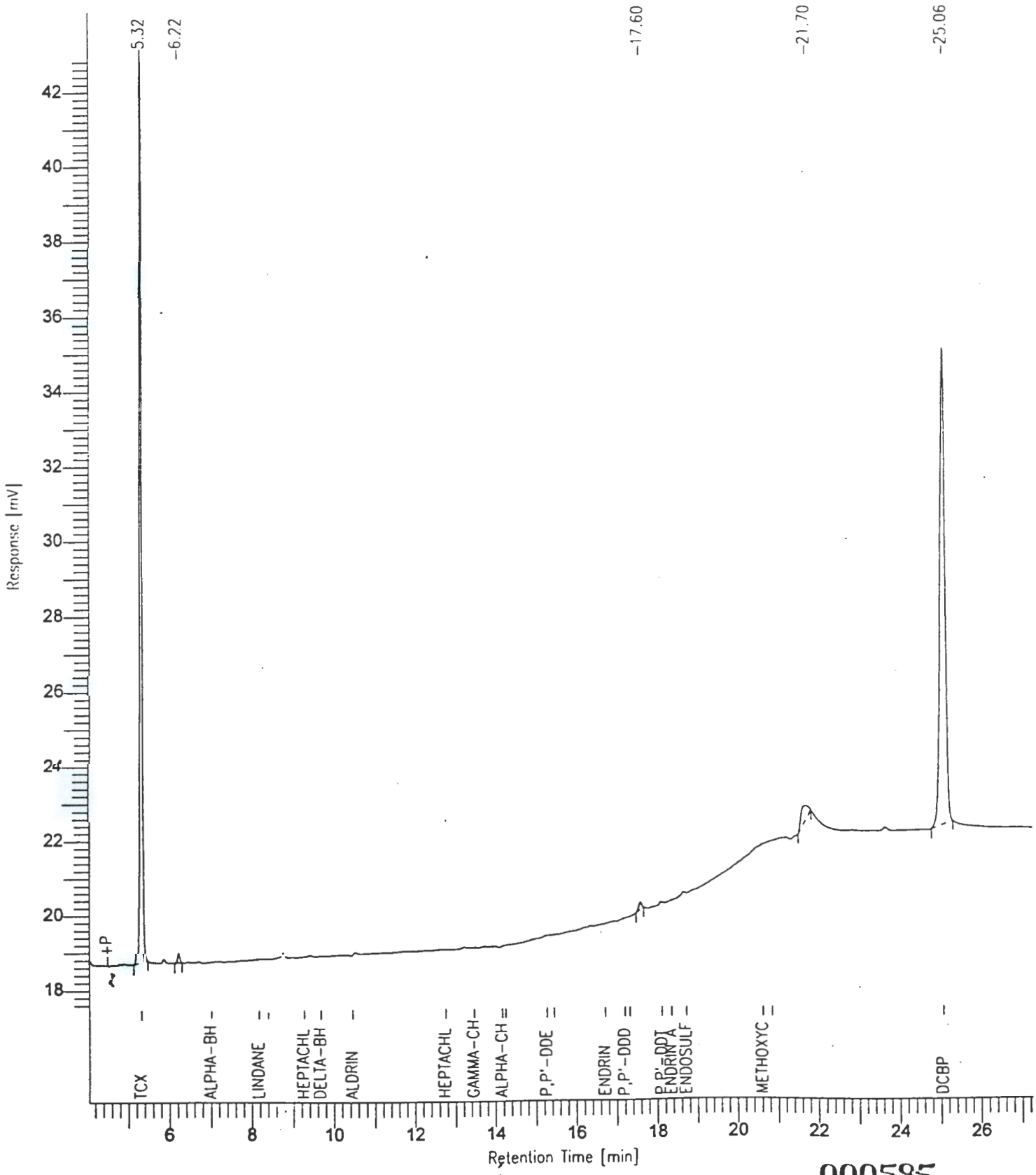
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.318	TCX	90124	B	26464	0.0228
5	25.060	DCBP	109591	B	12712	0.0033
			199715		39176	

9513355.1689

Chromatogram

Sample Name : MB*PIBLK*2
FileName : C:\TC4\HP58909\998A038.RAW
Method :
Start Time : 4.06 min End Time : 27.25 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 5/15/94 07:58 PM
Time of Injection: 5/13/94 03:24 PM
Low Point : 17.48 mV High Point : 42.87 mV
Plot Scale: 25.4 mV



000595

9513355.1690

Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*2 Time : 5/15/94 08:33 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/13/94 04:02 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A039.RAW
Result File : C:\TC4\HP58909\998A039.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A039.RST
Proc Method : C:\TC4\HP58909\998AAM.MTH
Calib Method : C:\TC4\HP58909\998AAM.MTH
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 111 Area Threshold : 1111 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 11

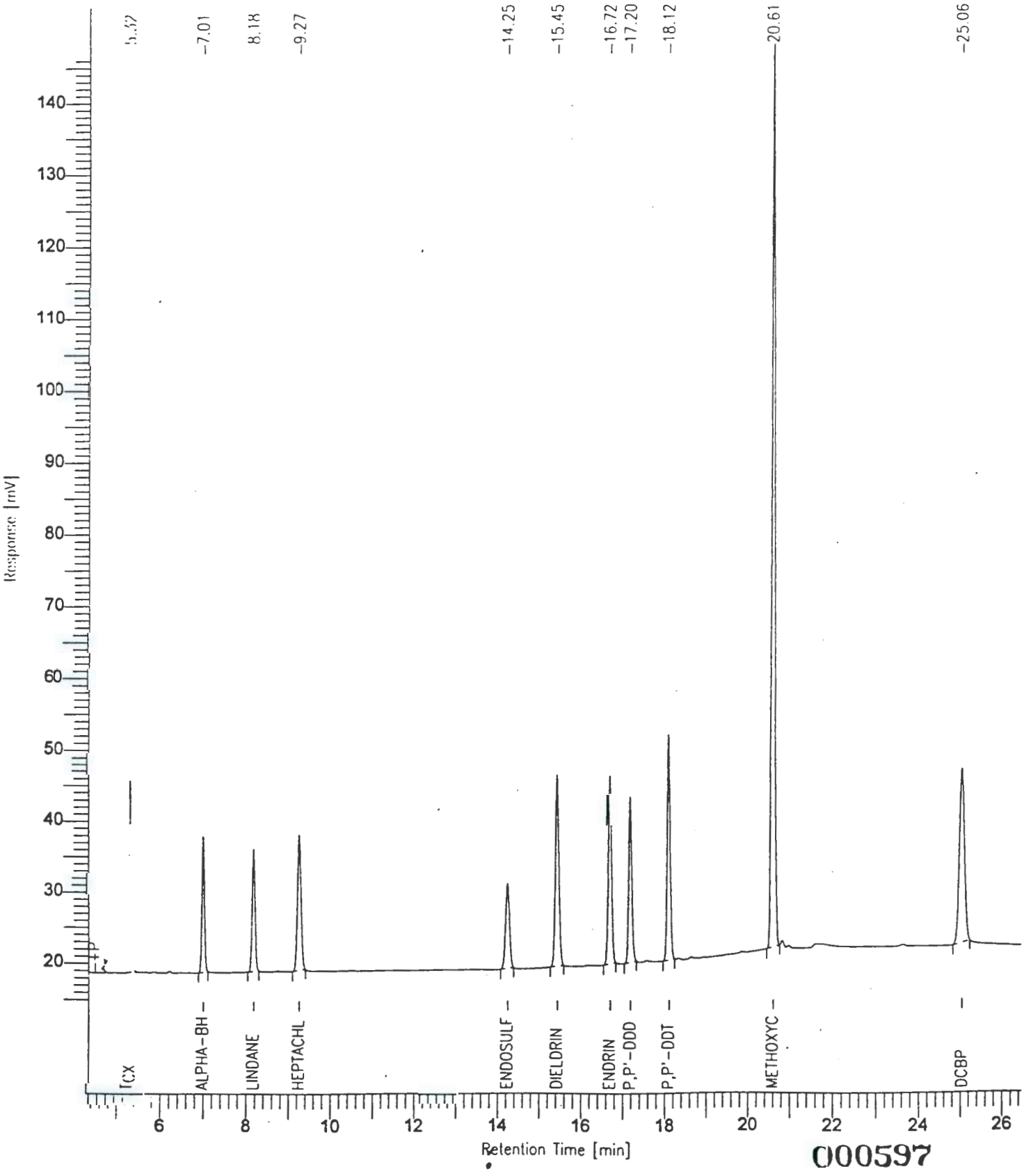
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.319	TCX	91748	B	27018	-8e-15	0.0200
2	7.010	ALPHA-BHC	75664	B	19019	-6e-15	0.0200
3	8.184	LINDANE	78290	B	17115	-6e-15	0.0200
4	9.265	HEPTACHLOR	114013	B	18997	6e-15	0.0200
5	14.251	ENDOSULFAN A	79425	B	11909	-6e-15	0.0200
6	15.449	DIELDRIN	158200	B	27033	-5e-15	0.0400
7	16.716	ENDRIN	142972	B	26597	-3e-15	0.0400
8	17.200	P,P'-DDD	116806	B	23317	6e-15	0.0400
9	18.120	P,P'-DDT	153517	B	31904	-5e-15	0.0400
10	20.612	METHOXYCHLOR	641501	B	126880	7e-15	0.2000
11	25.060	DCBP	215510	B	24759	4e-15	0.0400

9513355.1691 Chromatogram

Sample Name : CCS*INDAM*2
FileName : C:\TC4\HP58909\998A039.RAW
Method : 998AAM.MTH
Start Time : 4.34 min End Time : 26.48 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 5/15/94 08:33 PM
Time of Injection: 5/13/94 04:02 PM
Low Point : 14.84 mV High Point : 146.91 mV
Plot Scale: 132.1 mV



000597

9513355.1692

Software Version: 4.0<1C29>
Sample Name : CCS*INDBM*2 Time : 5/15/94 08:38 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/13/94 04:45 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A040.RAW
Result File : C:\TC4\HP58909\998A040.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A040.RST
Proc Method : C:\TC4\HP58909\998ABM.MTH
Calib Method : C:\TC4\HP58909\998ABM.MTH
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 111 Area Threshold : 1111 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 14

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.319	TCX	90335	B	26534	-3e-15	0.0200
2	8.405	BETA-BHC	53877	B	11548	-7e-15	0.0200
3	9.675	DELTA-BHC	65006	B	13129	-2e-15	0.0200
4	10.457	ALDRIN	80518	B	12667	3e-15	0.0200
5	12.753	HEPTACHLOR EPOXIDE	89386	B	12888	5e-15	0.0200
6	13.464	GAMMA-CHLORDANE	106819	B	14717	-4e-15	0.0200
7	14.171	ALPHA-CHLORDANE	102984	B	15226	5e-15	0.0200
8	15.272	P,P'-DDE	147180	B	26048	0.0000	0.0400
9	17.325	ENDOSULFAN B	142688	B	26971	8e-15	0.0400
10	18.357	ENDRIN ALDEHYDE	119923	B	23695	0.0000	0.0400
11	18.721	ENDOSULFAN SULFATE	157268	B	31545	-3e-15	0.0400
13	20.841	ENDRIN KETONE	155044	B	31665	7e-15	0.0400

000598

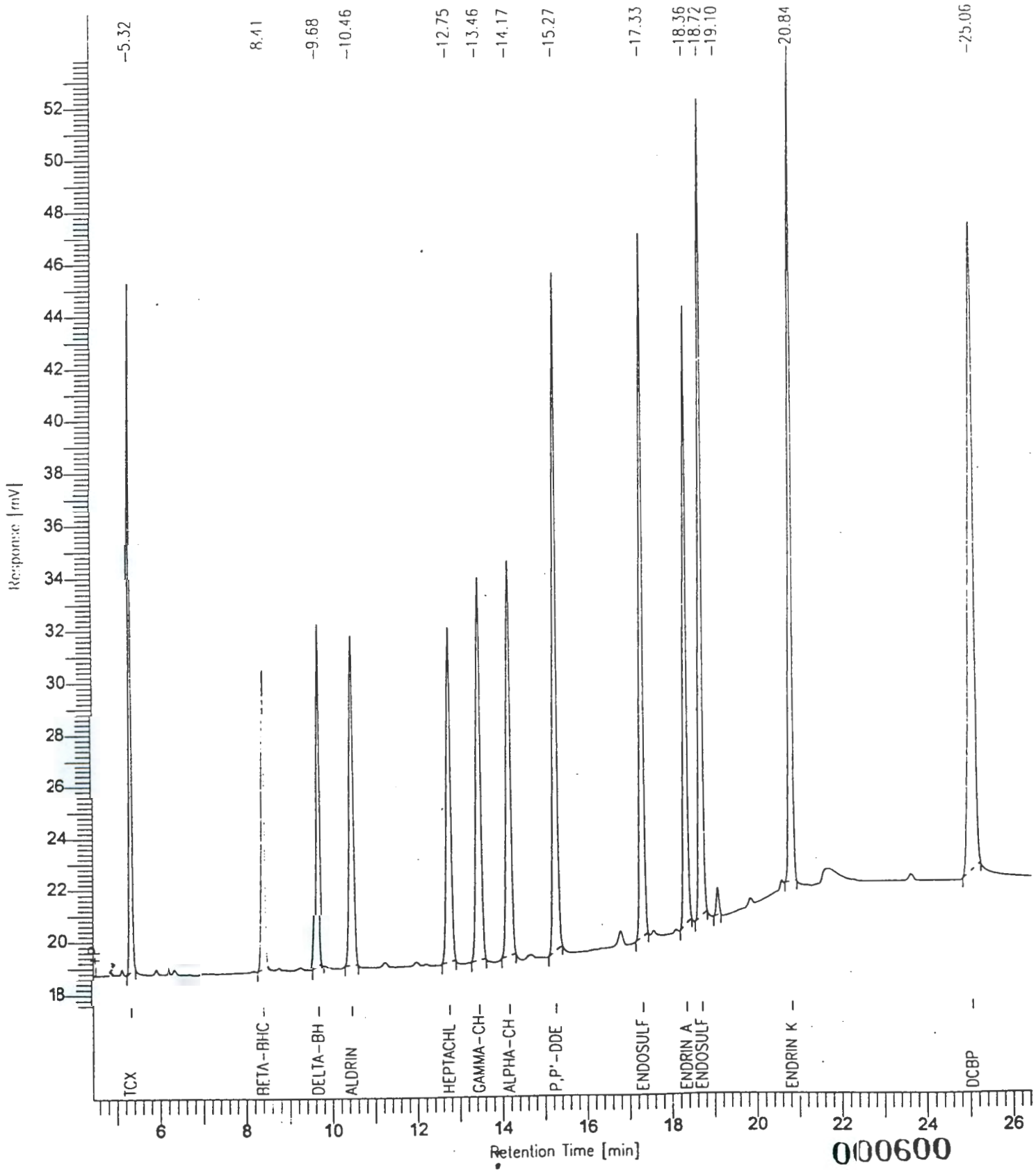
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
14	25.064	DCBP	215057	B	24829	3e-15	0.0400
			1526084		271460		0.3800

9513355.1694

Chromatogram

Sample Name : CCS*INDBM*2
FileName : C:\TC4\HP58909\998A040.RAW
Method : 998ABM.MTH
Start Time : 4.44 min End Time : 26.43 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 08:38 PM
Time of Injection: 5/13/94 04:45 PM
Low Point : 17.57 mV High Point : 53.80 mV
Plot Scale: 36.2 mV



000600

9513355.1696

Software Version: 4.0<1C29>
Sample Name : HEXANE
Sample Number:
Operator : VIC

Time : 5/16/94 12:19 PM
Study :

Instrument : HP58909
AutoSampler :
Rack/Vial : 0/0

Channel : A A/D mV Range : 1000

Interface Serial # : 9004570342 Data Acquisition Time: 5/14/94 01:13 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A052.RAW
Result File : C:\TC4\HP58909\998A052.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A052.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A052.RST
Calib Method : C:\TC4\HP58909\998A from C:\TC4\HP58909\998A052.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 6016.000000
Dilution Factor : 1.00

Noise Threshold: 15
Multiplier : 1.0000

Area Threshold : 444
Divisor : 1.0000

Bunch Factor: 1
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 5

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
4	21.074		7704	B	15	-------
			7704		15	

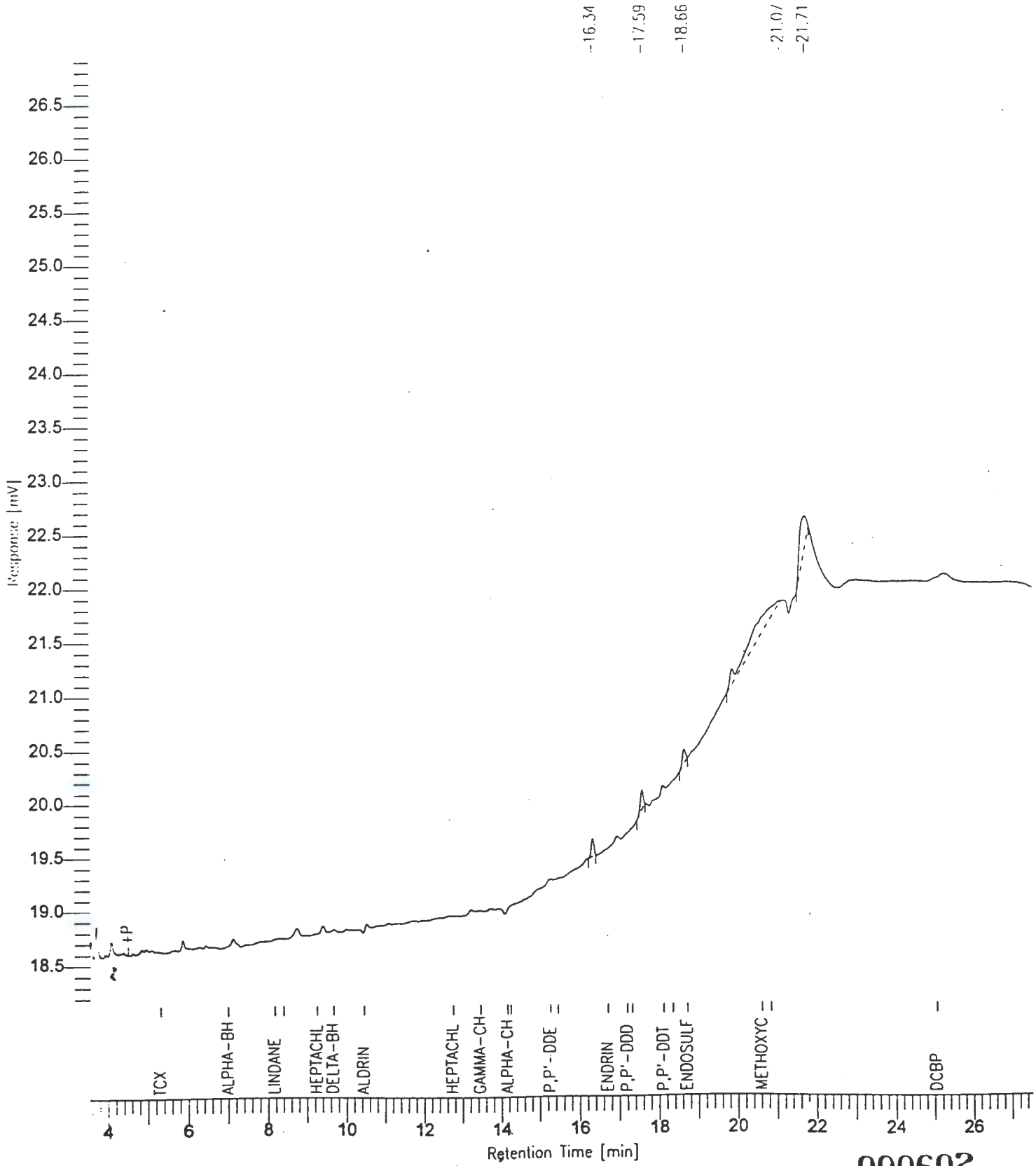
000601

9513355.1696

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\998A052.RAW
Method :
Start Time : 3.54 min End Time : 27.53 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/16/94 12:19 PM
Time of Injection: 5/14/94 01:13 AM
Low Point : 18.13 mV High Point : 26.94 mV
Plot Scale: 8.8 mV



000602

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*3 Time : 5/15/94 07:59 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/14/94 01:55 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A053.RAW
Result File : C:\TC4\HP58909\998A053.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A053.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A053.RST
Calib Method : C:\TC4\HP58909\998A from C:\TC4\HP58909\998A053.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 6016.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 5

DATA REPORT

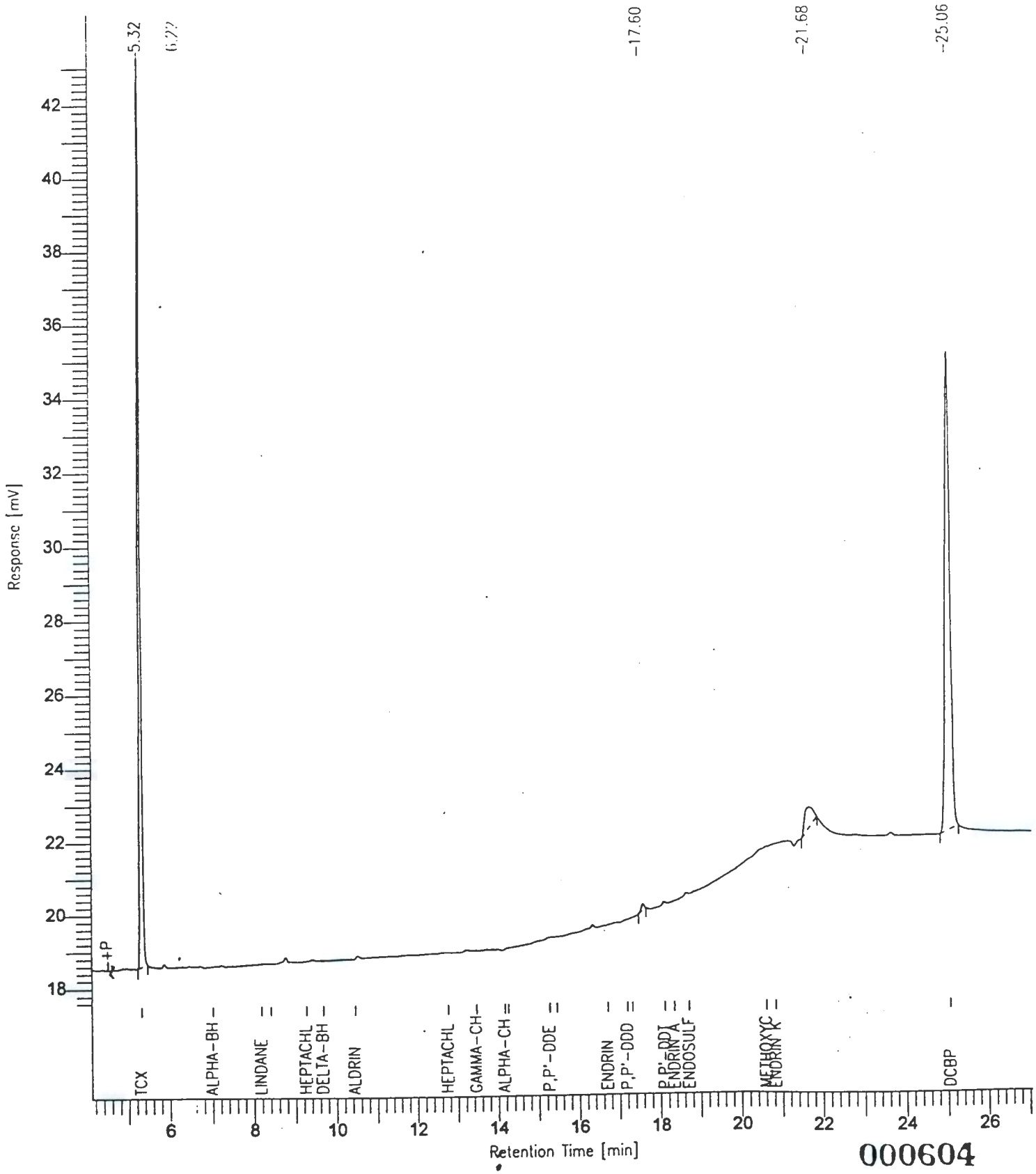
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.318	TCX	89935	B	26837	0.0227
4	21.684		8420	B	581	-------
5	25.064	DCBP	110965	B	12966	0.0189
			209319		40384	

9513355.1690

Chromatogram

Sample Name : MB*PIBLK*3
FileName : C:\TC4\HP58909\998A053.RAW
Method :
Start Time : 4.11 min End Time : 27.06 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 07:59 PM
Time of Injection: 5/14/94 01:55 AM
Low Point : 17.52 mV High Point : 43.17 mV
Plot Scale: 25.7 mV



000604

9513555.1699

Software Version: 4.0<1C29>
Sample Name : CK*PEM*3 Time : 5/15/94 07:55 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/14/94 02:37 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A054.RAW
Result File : C:\TC4\HP58909\998A054.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A054.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A054.RST
Calib Method : C:\TC4\HP58909\998APEM from C:\TC4\HP58909\998A054.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 16

DATA REPORT

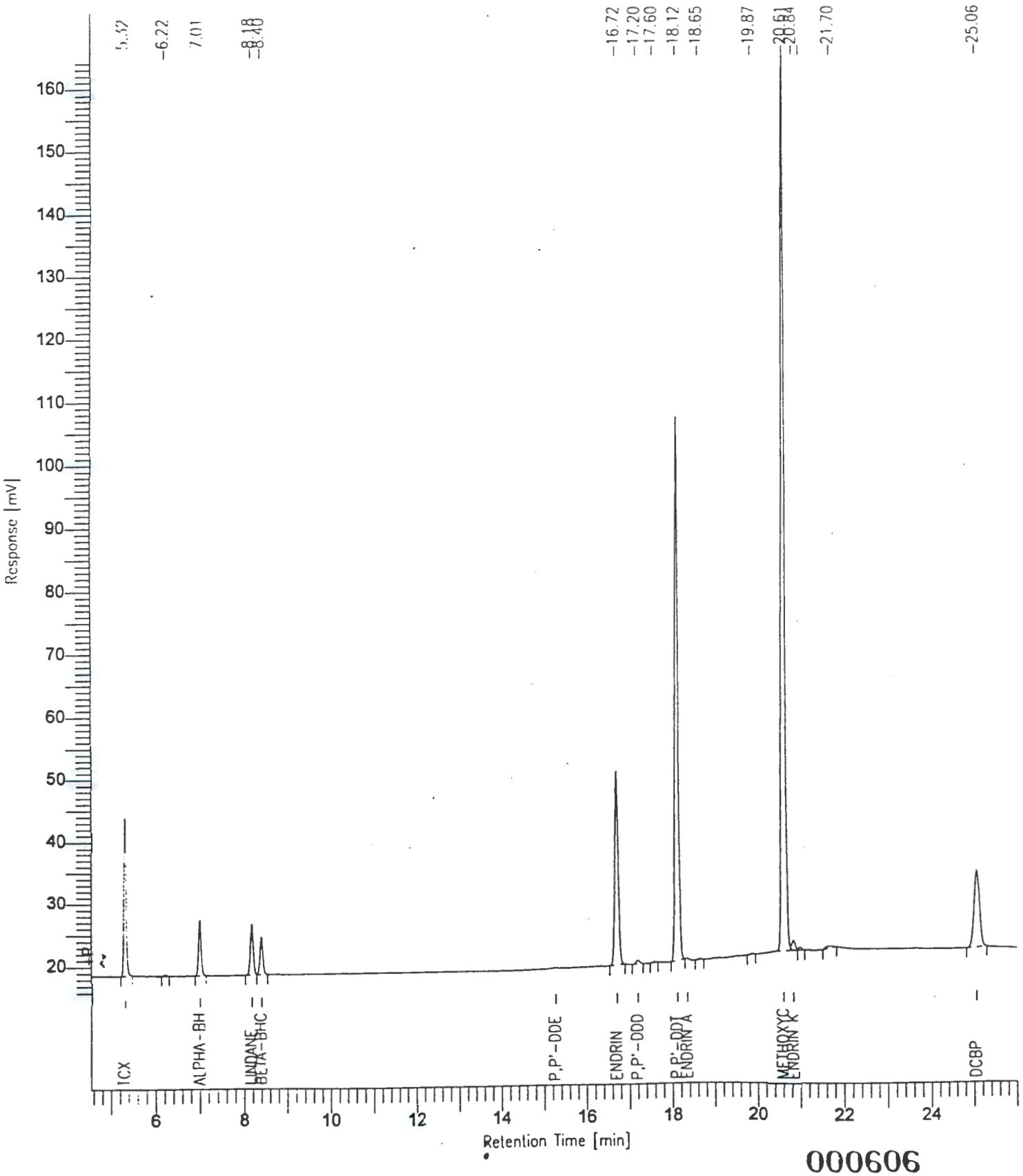
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.318	TCX	87853	B	25249	0.0116
3	7.008	ALPHA-BHC	36946	B	8967	0.0034
4	8.182	LINDANE	37973	B	8050	0.0207
5	8.403	BETA-BHC	28270	V	5950	-0.0002
6	16.716	ENDRIN	171242	B	31286	0.0032
7	17.203	P,P'-DDD	3532	B	627	0.0151
9	18.121	P,P'-DDT	428289	B	87355	0.0136
12	20.612	METHOXYCHLOR	774080	B	149012	0.0069
13	20.837	ENDRIN KETONE	8784	E	1602	-0.0216
16	25.061	DCBP	110182	B	12381	0.0078
			1687151		330479	

9513355.1700

Chromatogram

Sample Name : CK*PEM*3
FileName : C:\TC4\HP58909\998A054.RAW
Method :
Start Time : 4.54 min End Time : 26.00 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 5/15/94 07:55 PM
Time of Injection: 5/14/94 02:37 AM
Low Point : 15.20 mV High Point : 164.67 mV
Plot Scale: 149.5 mV



000606

Software Version: 4.0<1C29>
Sample Name : HEXANE
Time : 5/15/94 08:10 PM
Sample Number:
Study :
Operator : VIC

Instrument : HP58909
Channel : A
A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342
Data Acquisition Time: 5/14/94 01:14 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A069.RAW
Result File : C:\TC4\HP58909\998A069.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A069.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A069.RST
Calib Method : C:\TC4\HP58909\998A from C:\TC4\HP58909\998A069.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul
Area Reject : 6016.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

Noise Threshold: 15
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 4

DATA REPORT

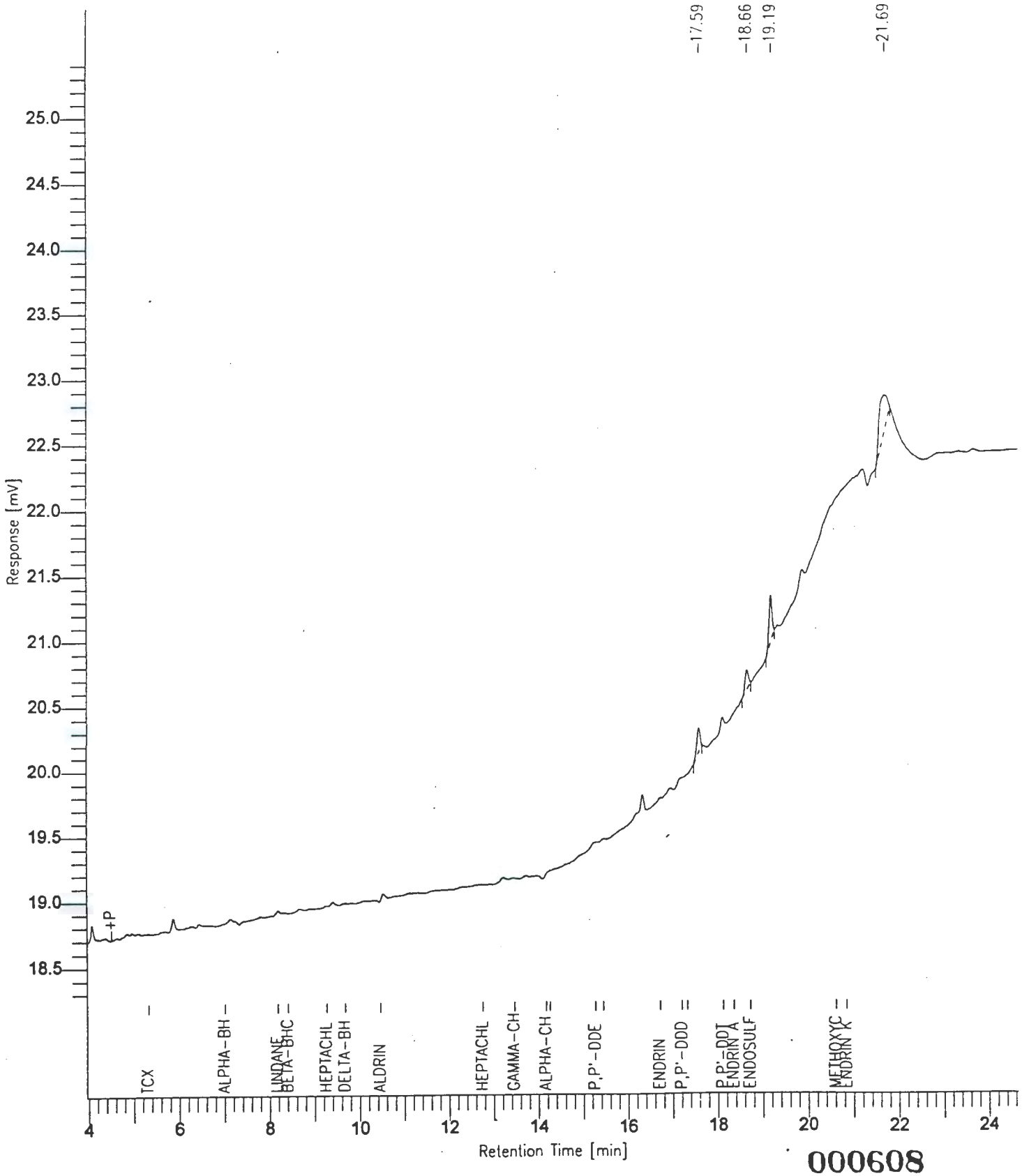
No peaks available to report

9513355.1702

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\998A069.RAW
Method :
Start Time : 3.96 min End Time : 24.65 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 08:10 PM
Time of Injection: 5/14/94 01:14 PM
Low Point : 18.23 mV High Point : 25.48 mV
Plot Scale: 7.3 mV



000608

9513555.1703

Software Version: 4.0<1C29>
Sample Name : ~~HEXANE~~ MB * PIBLK*4 Time : 5/15/94 10:38 PM
Sample Number: VSB 5-16-94 Study :
Operator : VIC

THE TURBOCHROM 4.0 DATA SYSTEM SWITCHED THE A+B CHANNEL FOR THIS INJECTION,

Instrument : HP58909 Channel : ~~B~~ A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/14/94 01:51 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998B070.RAW
Result File : C:\TC4\HP58909\998B070.RST
Inst Method : HP58909 from C:\TC4\HP58909\998B070.RST
Proc Method : C:\TC4\HP58909\998A.MTH
Calib Method : C:\TC4\HP58909\998A.MTH
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 6016.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 111 Area Threshold : 1111 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 2

DATA REPORT

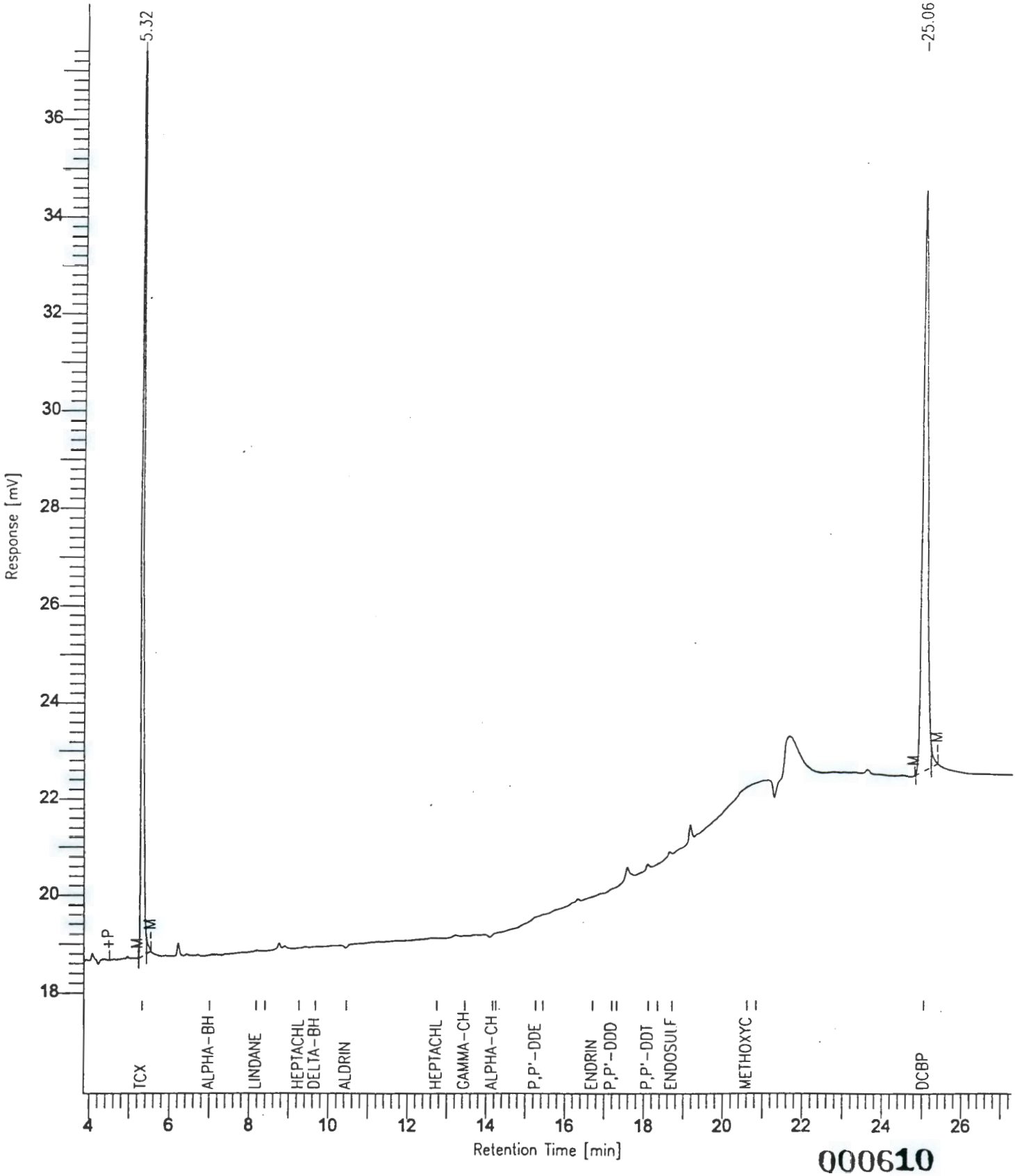
Peak #	Ret Time (min)	Component Name	Area (uV-sec)	BL	Height (uV)	Delta RT (%)
1	5.317	TCX	83961	*B	24728	0.0071
2	25.058	DCBP	99468	*B	11697	-0.0040
			183429		36425	

9513355.1704

Chromatogram

Sample Name : ~~HEXANE~~ MDY PIBLK *4 VSB 5-16-94 WI
FileName : C:\TC4\HP58909\998B070.RAW
Method : 998A.MTH
Start Time : 3.86 min End Time : 27.30 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 10:38 PM
Time of Injection: 5/14/94 01:51 PM
Low Point : 17.85 mV High Point : 37.40 mV
Plot Scale: 19.6 mV



000610

Software Version: 4.0<1C29>
Sample Name : CCS*INDAM*3 Time : 5/15/94 08:35 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/14/94 02:28 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A071.RAW
Result File : C:\TC4\HP58909\998A071.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A071.RST
Proc Method : C:\TC4\HP58909\998AAM.MTH
Calib Method : C:\TC4\HP58909\998AAM.MTH
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 111 Area Threshold : 1111 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 11

DATA REPORT

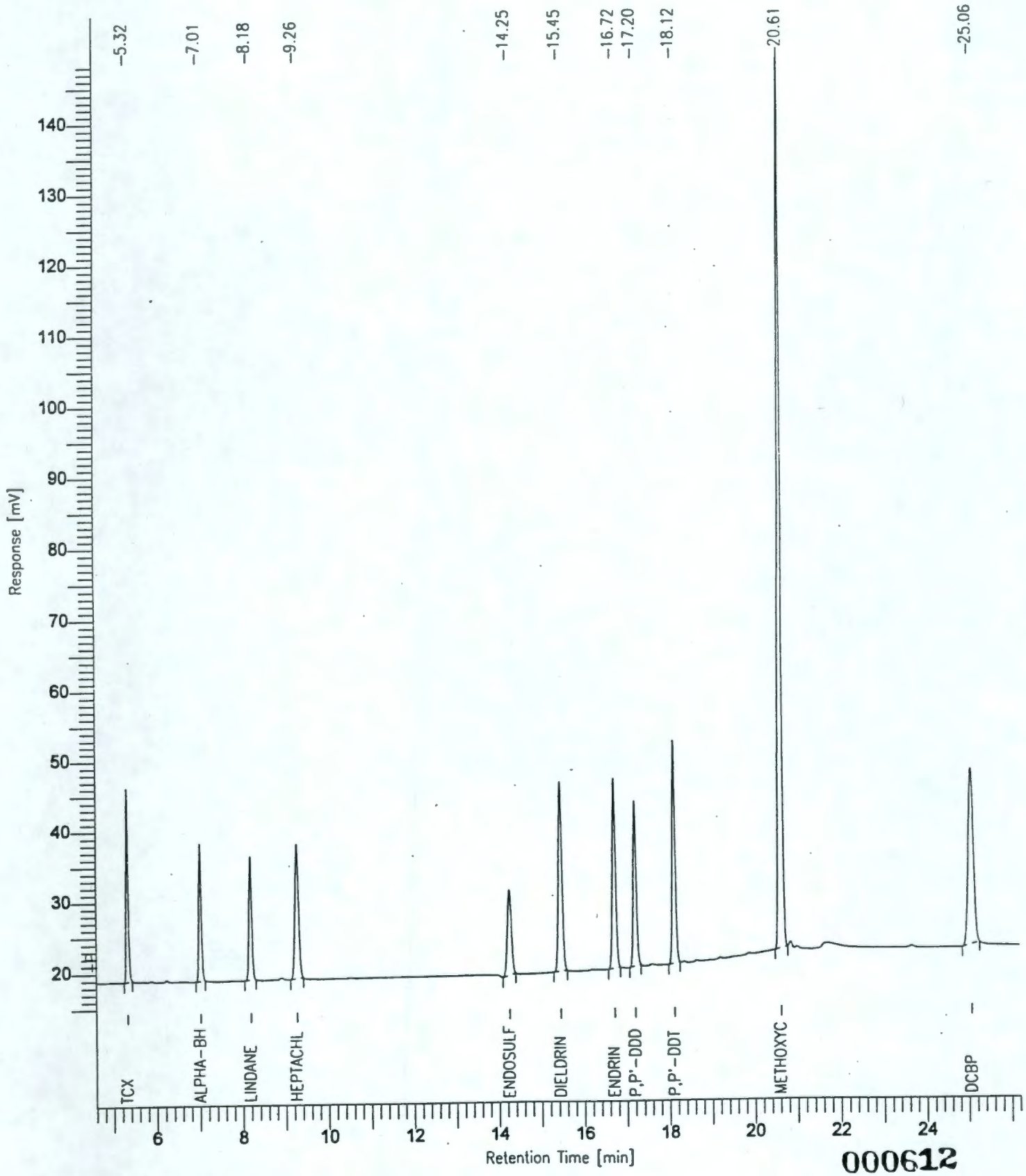
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.318	TCX	91369	B	27390	7e-15	0.0200
2	7.008	ALPHA-BHC	76062	B	19424	4e-15	0.0200
3	8.182	LINDANE	78515	B	17474	0.0000	0.0200
4	9.263	HEPTACHLOR	113260	B	19102	8e-15	0.0200
5	14.250	ENDOSULFAN A	80636	B	12131	-3e-15	0.0200
6	15.448	DIELDRIN	156823	B	27011	2e-15	0.0400
7	16.716	ENDRIN	142116	B	26978	1e-14	0.0400
8	17.200	P,P'-DDD	115625	B	23513	-3e-15	0.0400
9	18.120	P,P'-DDT	152490	B	32005	5e-15	0.0400
10	20.612	METHOXYCHLOR	637398	B	127357	-3e-15	0.2000
11	25.061	DCBP	215453	B	25203	-9e-16	0.0400

9513355.1706

Chromatogram

Sample Name : CCS*INDAM*3
FileName : C:\TC4\HP58909\998A071.RAW
Method : 998AAM.MTH
Start Time : 4.58 min End Time : 26.20 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #:
Date : 5/15/94 08:35 PM
Time of Injection: 5/14/94 02:28 PM
Low Point : 14.46 mV High Point : 148.54 mV
Plot Scale: 134.1 mV



000612

9513355.1707

Software Version: 4.0<1C29>
Sample Name : CCS*INDBM*3 Time : 5/15/94 08:39 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/14/94 03:05 PM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A072.RAW
Result File : C:\TC4\HP58909\998A072.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A072.RST
Proc Method : C:\TC4\HP58909\998ABM.MTH
Calib Method : C:\TC4\HP58909\998ABM.MTH
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 5555.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 111 Area Threshold : 1111 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 14

DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
1	5.318	TCX	89482	B	26525	-6e-15	0.0200
2	8.404	BETA-BHC	53550	B	11569	8e-15	0.0200
3	9.675	DELTA-BHC	65064	B	13280	2e-15	0.0200
4	10.457	ALDRIN	79920	B	12713	2e-15	0.0200
5	12.752	HEPTACHLOR EPOXIDE	88287	B	12778	3e-15	0.0200
6	13.463	GAMMA-CHLORDANE	105614	B	14504	0.0000	0.0200
7	14.169	ALPHA-CHLORDANE	102118	B	15052	4e-15	0.0200
8	15.271	P,P'-DDE	145492	B	25965	-5e-15	0.0400
9	17.324	ENDOSULFAN B	141834	B	26997	8e-15	0.0400
10	18.354	ENDRIN ALDEHYDE	119080	B	23579	3e-15	0.0400
11	18.719	ENDOSULFAN SULFATE	156364	B	31688	-4e-15	0.0400
13	20.840	ENDRIN KETONE	154934	B	32014	-1e-15	0.0400

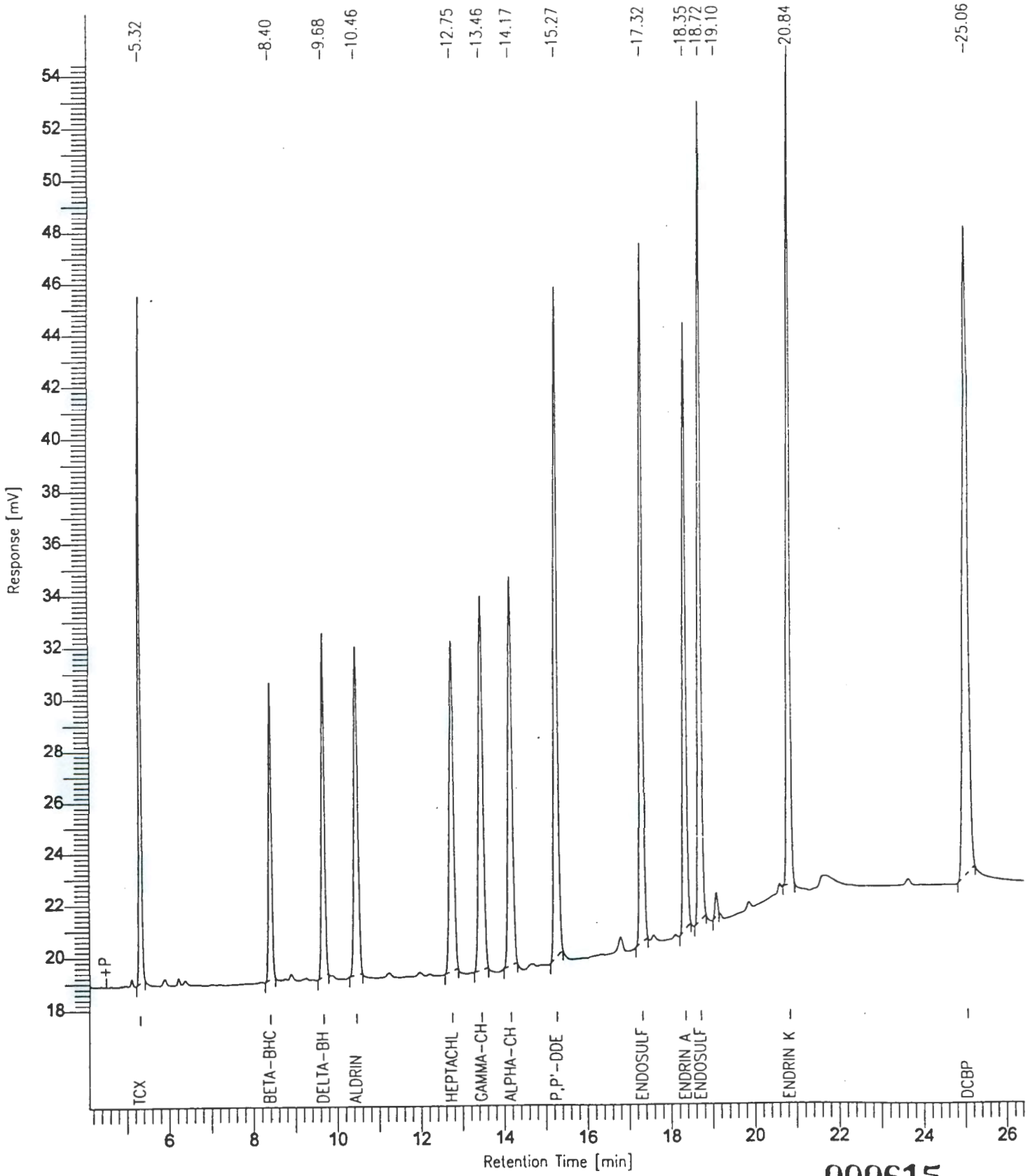
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]	NG INJECTED
14	25.061	DCBP	213099	B	25005	9e-16	0.0400
			1514836		271669		0.3800

9513355.1709

Chromatogram

Sample Name : CCS*INDBM*3
FileName : C:\TC4\HP58909\998A072.RAW
Method : 998ABM.MTH
Start Time : 4.10 min End Time : 26.43 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 08:39 PM
Time of Injection: 5/14/94 03:05 PM
Low Point : 17.84 mV High Point : 54.58 mV
Plot Scale: 36.7 mV



000615

9513355.1710

Software Version: 4.0<1C29>
Sample Name : HEXANE
Sample Number:
Operator : VIC

Time : 5/16/94 09:00 PM
Study :

Instrument : HP58909
AutoSampler :
Rack/Vial : 0/0

Channel : A
A/D mV Range : 1000

Interface Serial # : 9004570342
Data Acquisition Time: 5/15/94 12:18 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A087.RAW
Result File : C:\TC4\HP58909\998A087.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A087.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A087.RST
Calib Method : C:\TC4\HP58909\998A from C:\TC4\HP58909\998A087.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 6016.000000
Dilution Factor : 1.00

Noise Threshold: 15
Area Threshold : 444
Bunch Factor: 1
Multiplier : 1.0000
Divisor : 1.0000
Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 4

DATA REPORT

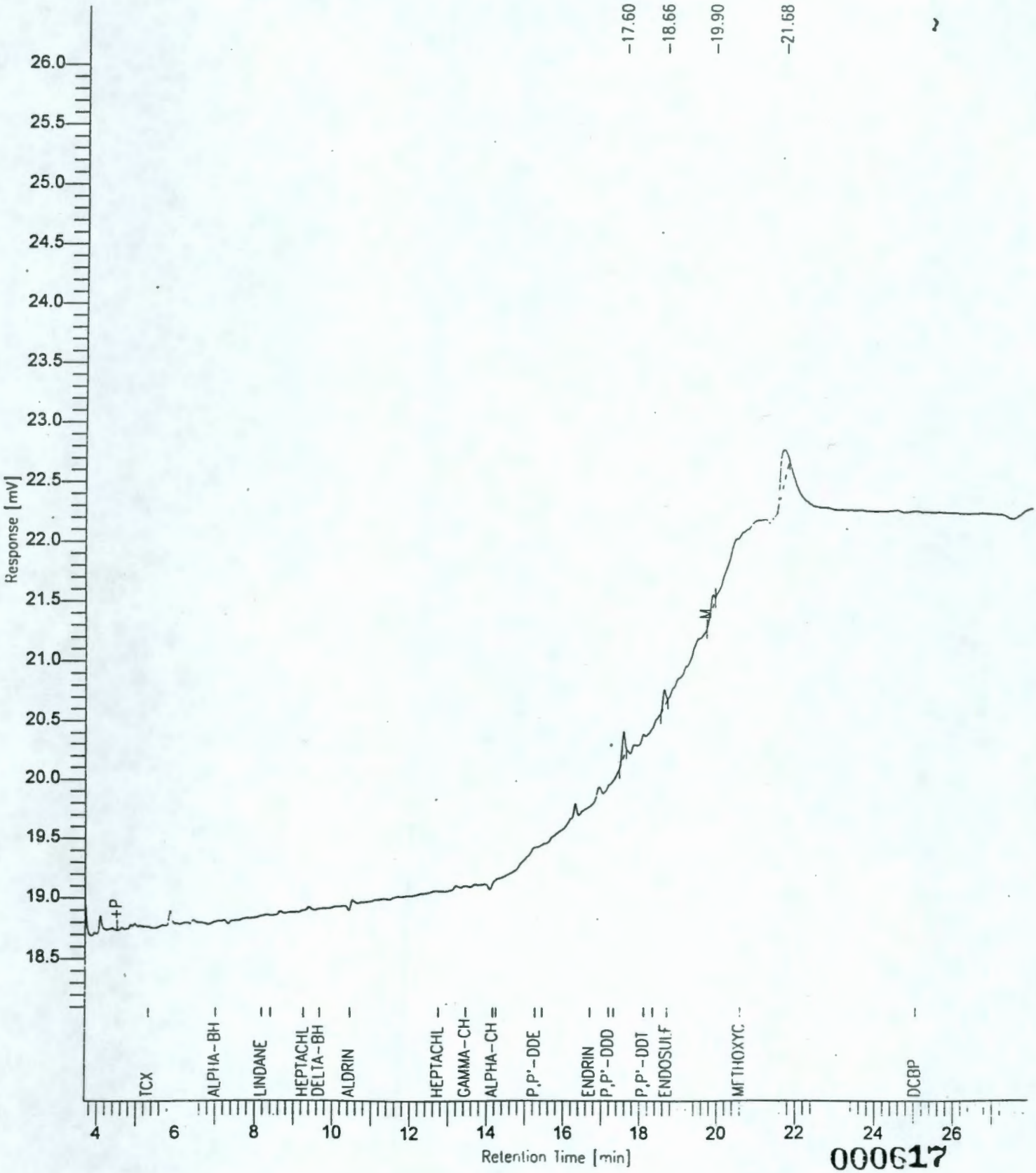
No peaks available to report

9513355.1711

Chromatogram

Sample Name : HEXANE
FileName : C:\TC4\HP58909\998A087.RAW
Method :
Start Time : 3.68 min End Time : 28.02 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/16/94 09:00 PM
Time of Injection: 5/15/94 12:18 AM
Low Point : 18.10 mV High Point : 26.09 mV
Plot Scale: 8.0 mV



000617

Software Version: 4.0<1C29>
Sample Name : MB*PIBLK*5 Time : 5/15/94 08:07 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/15/94 12:55 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A088.RAW
Result File : C:\TC4\HP58909\998A088.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A088.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A088.RST
Calib Method : C:\TC4\HP58909\998A from C:\TC4\HP58909\998A088.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 6016.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 6

DATA REPORT

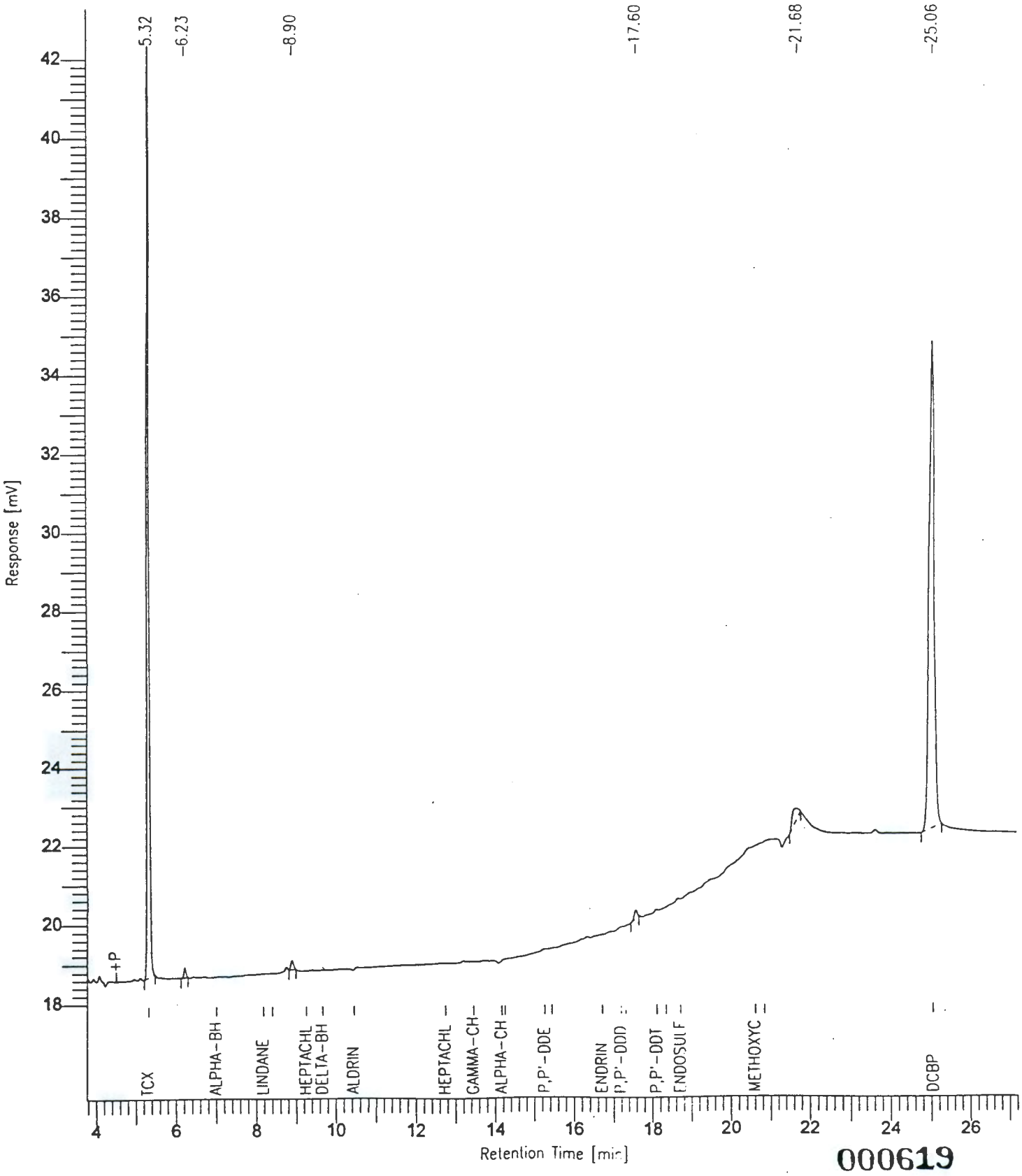
Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.319	TCX	89452	B	26081	0.0469
6	25.062	DCBP	110212	B	12424	0.0125
			199664		38506	

9513355.1713

Chromatogram

Sample Name : MB*PIBLK*5
FileName : C:\TC4\HP58909\998A088.RAW
Method :
Start Time : 3.77 min End Time : 27.21 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #:
Date : 5/15/94 08:07 PM
Time of Injection: 5/15/94 12:55 AM
Low Point : 17.95 mV High Point : 42.11 mV
Plot Scale: 24.2 mV



9513355.1714

Software Version: 4.0<1C29>
Sample Name : CK*PEM*4 Time : 5/15/94 07:57 PM
Sample Number: Study :
Operator : VIC

Instrument : HP58909 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 9004570342 Data Acquisition Time: 5/15/94 01:32 AM
Delay Time : 0.00 min.
End Time : 30.00 min.
Sampling Rate : 2.0000 pts/sec

Raw Data File : C:\TC4\HP58909\998A089.RAW
Result File : C:\TC4\HP58909\998A089.RST
Inst Method : HP58909 from C:\TC4\HP58909\998A089.RST
Proc Method : C:\TC4\HP58909\DB608 from C:\TC4\HP58909\998A089.RST
Calib Method : C:\TC4\HP58909\998APEM from C:\TC4\HP58909\998A089.RST
Sequence File : C:\TC4\HP58909\998A.SEQ

Sample Volume : 1 ul Area Reject : 777.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 15 Area Threshold : 444 Bunch Factor: 1
Multiplier : 1.0000 Divisor : 1.0000 Addend : 0.0000

Instrument Conditions:
HP58909 GC #3203A40609
CHANNEL A: DB608 30M x 0.53mm ID x 0.83um FILM
CHANNEL B: DB1701 30M x 0.53mm ID x 1.0um FILM

Total number of peaks detected: 16

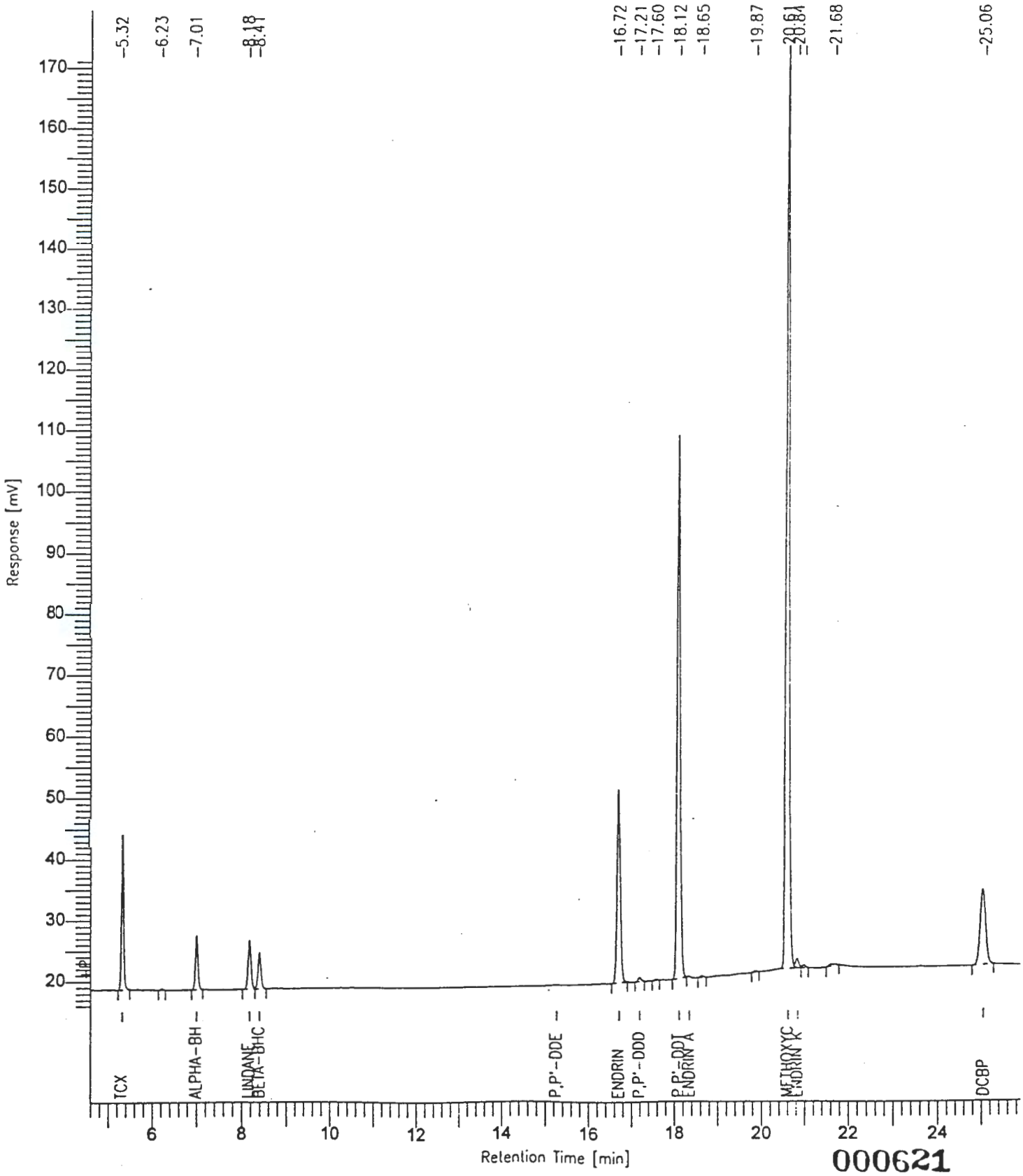
DATA REPORT

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	BL	Height [uV]	Delta RT [%]
1	5.320	TCX	87942	B	25584	0.0474
3	7.011	ALPHA-BHC	36659	B	8992	0.0370
4	8.184	LINDANE	37810	B	8052	0.0501
5	8.405	BETA-BHC	28305	V	6025	0.0288
6	16.717	ENDRIN	170935	B	31591	0.0119
7	17.205	P,P'-DDD	3839	B	704	0.0266
9	18.124	P,P'-DDT	429576	B	88665	0.0273
12	20.614	METHOXYCHLOR	773444	B	150255	0.0126
13	20.837	ENDRIN KETONE	8724	E	1622	-0.0210
16	25.059	DCBP	109866	B	12505	0.0020
			1687101		333995	

Chromatogram

Sample Name : CK*PEM*4
FileName : C:\TC4\HP58909\998A089.RAW
Method :
Start Time : 4.59 min End Time : 25.90 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #:
Date : 5/15/94 07:57 PM
Time of Injection: 5/15/94 01:32 AM
Low Point : 15.23 mV High Point : 171.64 mV
Plot Scale: 156.4 mV



000621

951395.1719