APPENDIX E

011346

RAW ANALYTICAL DATA

Beazer

BEAZER EAST, INC.
SOUTH CAVALCADE
SUPERFUND SITE
HOUSTON, TEXAS

VOLUME III OF IV

OCTOBER 1993

137006

Dames & Moore

137006

011346

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CHESTER LABNET
RAW ANALYTICAL DATA

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Reference Project: Soil Washing Pilot Study Report
South Calvacade Superfund Site

Appendix E

011348

Report
Prepared
for

D a m e s a n d M o o r e

4321 Directors Row
Suite 200
Houston, TX 77092

Attention : BRUCE HICKMAN

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID : S. CAVALCADE
P.O. NUMBER :

WORK ORDER : H93-04.101
DATE RECEIVED : 14-APR-1993

SAMPLE & ANALYSIS SUMMARY

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-04.101-001	LAB BLANK	12-APR-1993	SOIL
H93-04.101-002	SC-PW1 (-200)SUP	12-APR-1993	SOIL
H93-04.101-003	SC-PW2 (-200)SUP	12-APR-1993	SOIL
H93-04.101-004	SC-PW3 (-200)SUP	12-APR-1993	SOIL
H93-04.101-005	SC-PW4 (-200)SUP	12-APR-1993	SOIL
H93-04.101-006	SC-PW5 (-200)SUP	12-APR-1993	SOIL
H93-04.101-007	SC-PW6 (-200)SUP	12-APR-1993	SOIL
H93-04.101-008	SC-PW7 (-200)SUP	12-APR-1993	SOIL
H93-04.101-009	SC-PW8 (-200)SUP	12-APR-1993	SOIL
H93-04.101-010	SC-PW9 (-200)SUP	12-APR-1993	SOIL
H93-04.101-011	SC-PW10 (-200)SUP	12-APR-1993	SOIL
H93-04.101-012	SC-PW DUP (-200)SUP	12-APR-1993	SOIL

Analysis ID	Parameter Description
DRY_WT	Dry Weight Factor
EXT_8270SX	(Soil) Extraction by EPA 8270
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON DOC. CONT NO:

PROJECT NO.: 18804 SITE: S. CAVALCADE

LAB NO.:H93-04.101

I. RECEIPT

A. DATE: APR. 12, 1993

B. NO. OF SAMPLES: 11 SAMPLES.

C. CLIENT ID NUMBERS: SC-PW1 (-200) SUP
SC-PW2 (-200) SUP
SC-PW3 (-200) SUP
SC-PW4 (-200) SUP
SC-PW5 (-200) SUP
SC-PW6 (-200) SUP
SC-PW7 (-200) SUP
SC-PW8 (-200) SUP
SC-PW9 (-200) SUP
SC-PW10 (-200) SUP
SC-PW DUP (-200) SUP

D. SAMPLE TYPE: Soils

E. ANALYSIS REQUESTED: At the request of Dames & Moore; cPAH analyses performed on the supernatant portion of the -200 Sieve size. Supernatant filtered and dryed leaving a soil residue. Method 8270 for cPAH performed with the extraction for Semivolatiles preceding.

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: At the request of Dames & Moore (2) data sheets provided per sample in each Work Order. First Organics Analysis Data Sheet contains cPAH follow with Full PAH LISTING.
Quanitation Data sheet will give complete PAH amounts. The delay to analyses of cPAH for soils on this Work Order was due to GC/MS downtime with Semi-volatile instrumentation.

I. COMMENTS: The Report for Grain Size by ASTM (D-422) has been performed and will be submitted under separate cover.

According to Contract, all sample data Faxed (4/26/93) as a prelimiary to receival of Data Package.

Robert R Barrientos
Robert R. Barrientos, Project Manager

000001

May 03, 1993
Date

Keystone Lab - Houston
Soil Surrogate Recovery Summary
Keystone Work Order # H93-04.101

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK	NA	NA	NA	NA	NA	NA	NA	NA
SC-PW1 (-200)SUP	DL	DL	DL	DL	DL	DL	DL	DL
SC-PW2 (-200)SUP	DL	DL	DL	DL	DL	DL	DL	DL
SC-PW3 (-200)SUP	DL	DL	DL	DL	DL	DL	DL	DL
SC-PW4 (-200)SUP	DL	DL	DL	DL	DL	DL	DL	DL
SC-PW5 (-200)SUP	DL	DL	DL	DL	DL	DL	DL	DL
SC-PW6 (-200)SUP	DL	DL	DL	DL	DL	DL	DL	DL
SC-PW7 (-200)SUP	DL	DL	DL	DL	DL	DL	DL	DL
SC-PW8 (-200)SUP	DL	DL	DL	DL	DL	DL	DL	DL
SC-PW9 (-200)SUP	DL	DL	DL	DL	DL	DL	DL	DL
SC-PW10 (-200)SUP	DL	DL	DL	DL	DL	DL	DL	DL
SC-PW DUP (-200)SUP	DL	DL	DL	DL	DL	DL	DL	DL
SBLK 1 (LLS)	56	61	100	63	71	65	54	65
SBLK 2 (LLS)	68	69	78	68	59	57	52	69

Surrogate Name	QC LIMITS	Surrogate Name	QC LIMITS
S1(NBZ) = Nitrobenzene-d5	22-120	S2(FBP) = 2-Fluorobiphenyl	30-115
S3(TPH) = Terphenyl-d14	18-137	S4(PHL) = Phenol-d5	24-113
S5(2FP) = 2-Fluorophenol	25-121	S6(TBP) = 2,4,6-Tribromophenol	19-122
S7(2CP) = 2-Chlorophenol-d4	20-130**	S8(DCB) = 1,2-Dichlorobenzene-d4	20-130**

0 out of 16 : outside of QC limits.

* = Values are outside of QC limits ** = Advisory QC Limits NA = Not Applicable
DL = DILUTED OUT

011352

CHESTER LABNET DC # ---17

INST ID: 4530 SAMPLE NUMBER: SC-PW1 (-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930410102 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04101C02
DATE EXTRACTED: 04/14/93
DATE ANALYZED: 04/24/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	37	7 J
C740	CHRYSENE	37	6 J
C765	BENZO(B)FLUORANTHENE	37	7 J
C770	BENZO(K)FLUORANTHENE	37	3 J
C775	BENZO(A)PYRENE	37	6 J
C780	INDENO(1,2,3-CD)PYRENE	37	4 J
C785	DIBENZO(A,H)ANTHRACENE	37	1 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011353

INST ID: 4530 SAMPLE NUMBER: SC-PW1 (-200)SUP

ORGANICS ANALYSIS DATA SHEET -

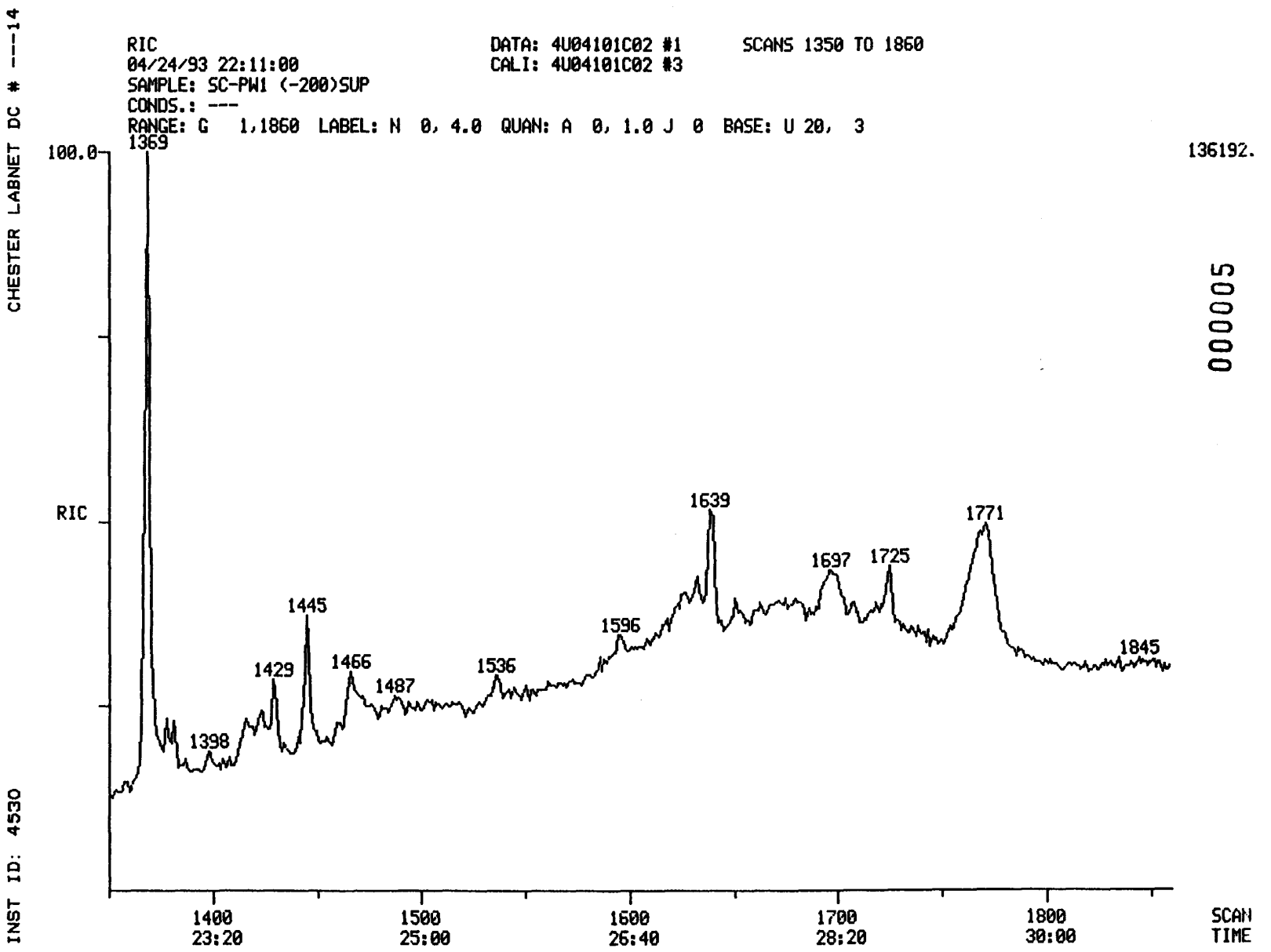
LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930410102 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: Ray DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04101C02
DATE EXTRACTED: 04/14/93
DATE ANALYZED: 04/24/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	37 U	R
C540	ACENAPHTHYLENE	37 U	R
C550	ACENAPHTHENE	37 U	R
C590	FLUORENE	37 U	R
C640	PHENANTHRENE	37 U	R
C645	ANTHRACENE	37 U	R
C655	FLUORANTHENE	37 U	R
C715	PYRENE	37 U	R
C730	BENZO(A)ANTHRACENE	37	7 J
C740	CHRYSENE	37	6 J
C765	BENZO(B)FLUORANTHENE	37	7 J
C770	BENZO(K)FLUORANTHENE	37	3 J
C775	BENZO(A)PYRENE	37	6 J
C780	INDENO(1,2,3-CD)PYRENE	37	4 J
C785	DIBENZO(A,H)ANTHRACENE	37	1 J
C790	BENZO(GHI)PERYLENE	37	6 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



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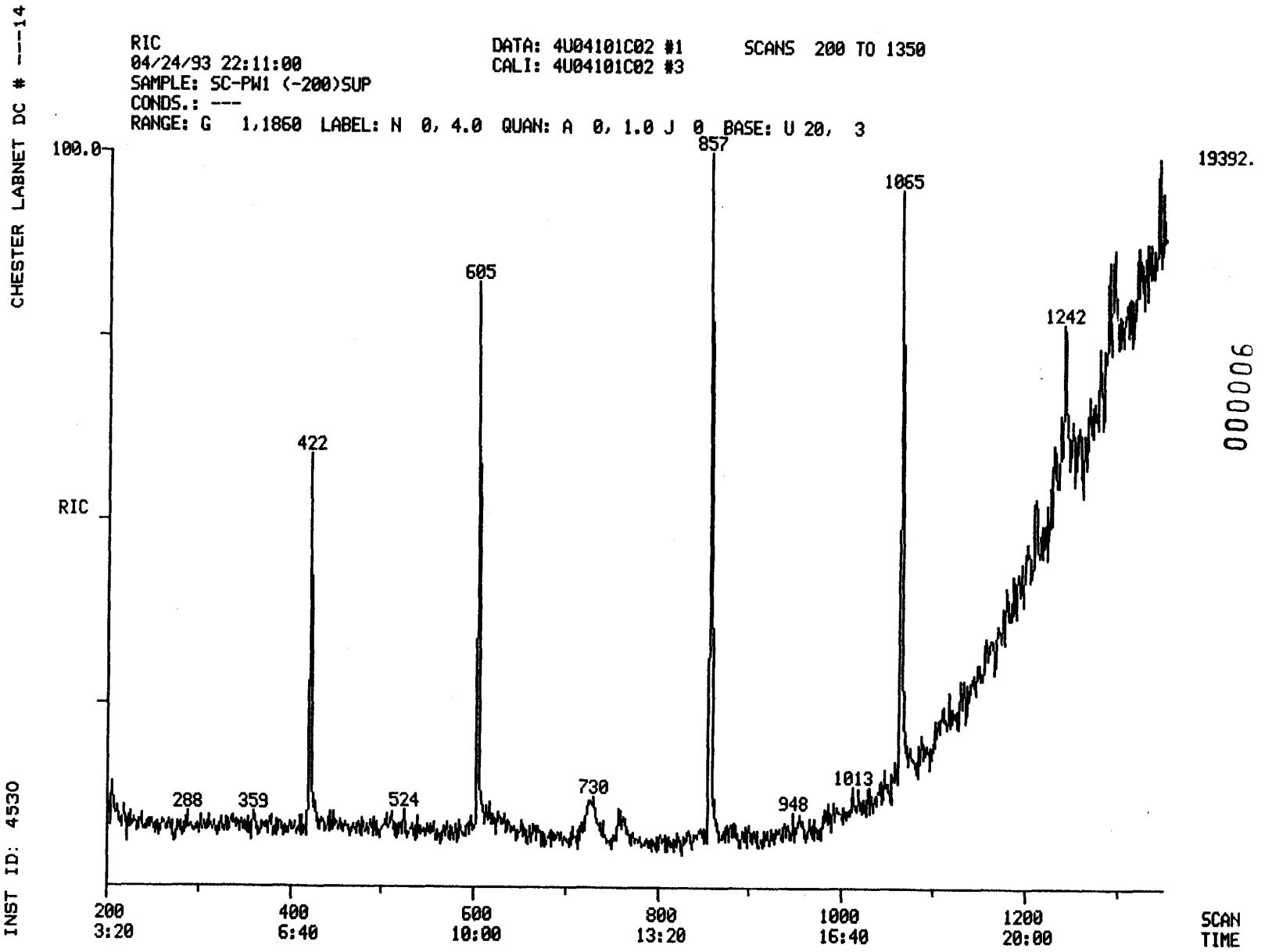
011354

011354



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011355

CHESTER LABNET DC # ---14

SEMIVOLATILE SOIL REPORT

SAMPLE ID.	SC-PW1 (-200)SUP		
FILENAME	4U04101C02	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	JZ
DATE INJECTED	04/24/93 22:11:00	VERIFIED BY	
CALIB STD DATE	04/17/93	CORR. FACTOR	3.70

011356

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
422	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	74 MG/KG	1.000	383
605	CI40	NAPHTHALENE-D8 ** IS2 **	136	74 MG/KG	1.000	1636
857	CI50	ACENAPHTHENE-D10 ** IS3 **	164	74 MG/KG	1.000	910
1065	CI60	PHENANTHRENE-D10 ** IS4 **	188	74 MG/KG	1.000	1457
1445	CI70	CHRYSENE-D12 ** IS5 **	240	74 MG/KG	1.000	1832
1639	CI75	PERYLENE-D12 ** IS6 **	264	74 MG/KG	1.000	2120
1443	C730	BENZO(A)ANTHRACENE	228	7 MG/KG	0.999	166
1448	C740	CHRYSENE	228	6 MG/KG	1.002	140
1592	C765	BENZO(B)FLUORANTHENE	252	7 MG/KG	0.971	238
1593	C770	BENZO(K)FLUORANTHENE	252	3 MG/KG	0.972	120
1631	C775	BENZO(A)PYRENE	252	6 MG/KG	0.995	151
1789	C780	INDENO(1,2,3-CD)PYRENE	276	4 MG/KG	1.092	89
1791	C785	DIBENZO(A,H)ANTHRACENE	278	1 MG/KG	1.093	28
1831	C790	BENZO(GHI)PERYLENE	276	6 MG/KG	1.117	118

*SURROGATES WERE DILUTED OUT

011357

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW1 (-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410103
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C03

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	33	71
C740	CHRYSENE	33	81
C765	BENZO(B)FLUORANTHENE	33	140
C770	BENZO(K)FLUORANTHENE	33 U	R
C775	BENZO(A)PYRENE	33	23 J
C780	INDENO(1,2,3-CD)PYRENE	33 U	R
C785	DIBENZO(A,H)ANTHRACENE	33	14 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011358

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW1 (-200)SUP

ORGANICS ANALYSIS DATA SHEET -

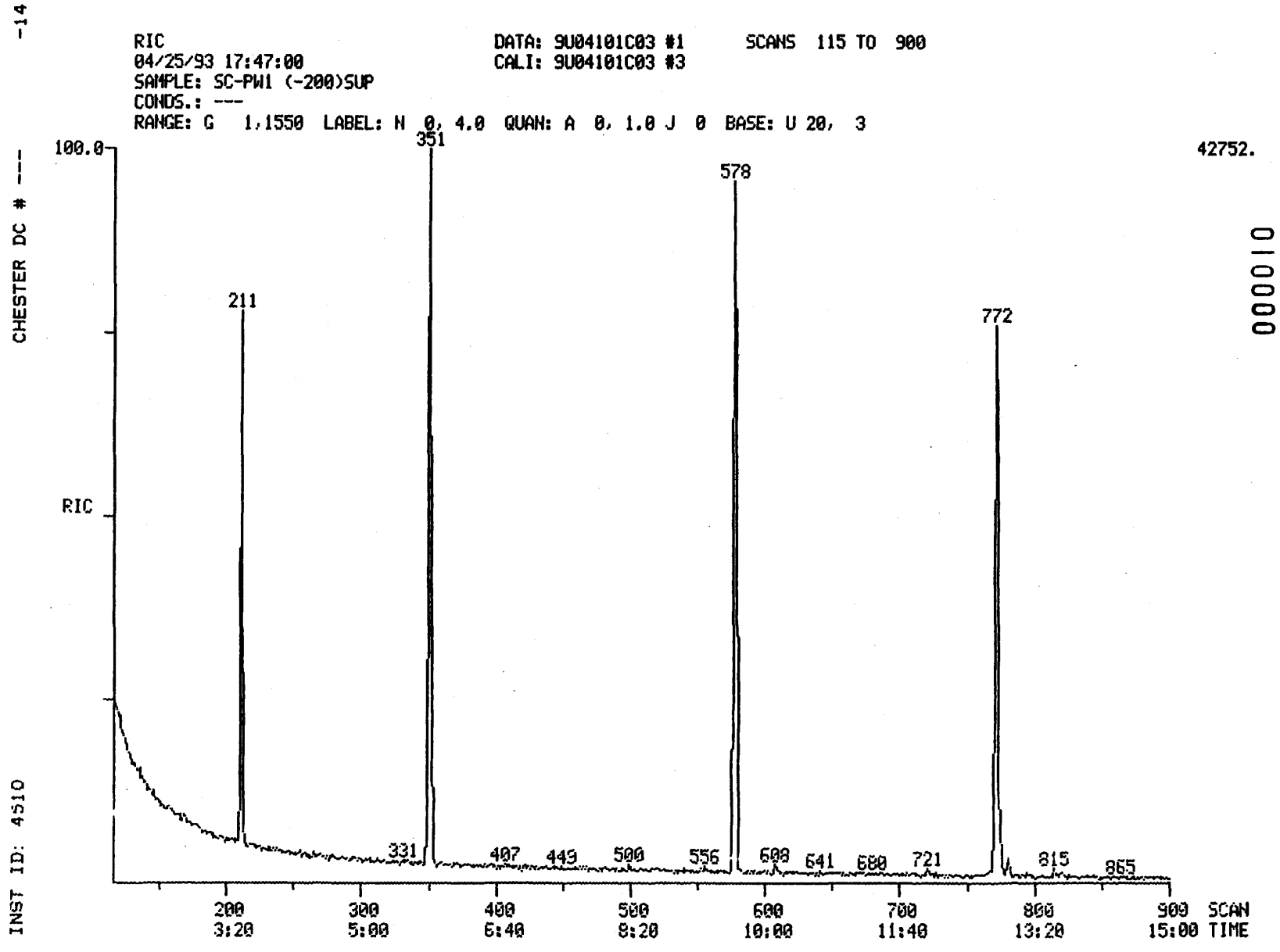
LABORATORY NAME: CHESTER LABNET
CASE NO.: ---
LAB SAMPLE ID NO.: 930410103
QC REPORT NO.: 04/24/93
SAMPLE MATRIX: SOIL
CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: .....
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATAFILE: 9U04101C03
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	33 U	R
C540	ACENAPHTHYLENE	33 U	R
C550	ACENAPHTHENE	33 U	R
C590	FLUORENE	33 U	R
C640	PHENANTHRENE	33	6 J
C645	ANTHRACENE	33	3 J
C655	FLUORANTHENE	33	26 J
C715	PYRENE	33	26 J
C730	BENZO(A)ANTHRACENE	33	71
C740	CHRYSENE	33	81
C765	BENZO(B)FLUORANTHENE	33	140
C770	BENZO(K)FLUORANTHENE	33 U	R
C775	BENZO(A)PYRENE	33	23 J
C780	INDENO(1,2,3-CD)PYRENE	33 U	R
C785	DIBENZO(A,H)ANTHRACENE	33	14 J
C790	BENZO(GHI)PERYLENE	33	11 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



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011359

011359

-14

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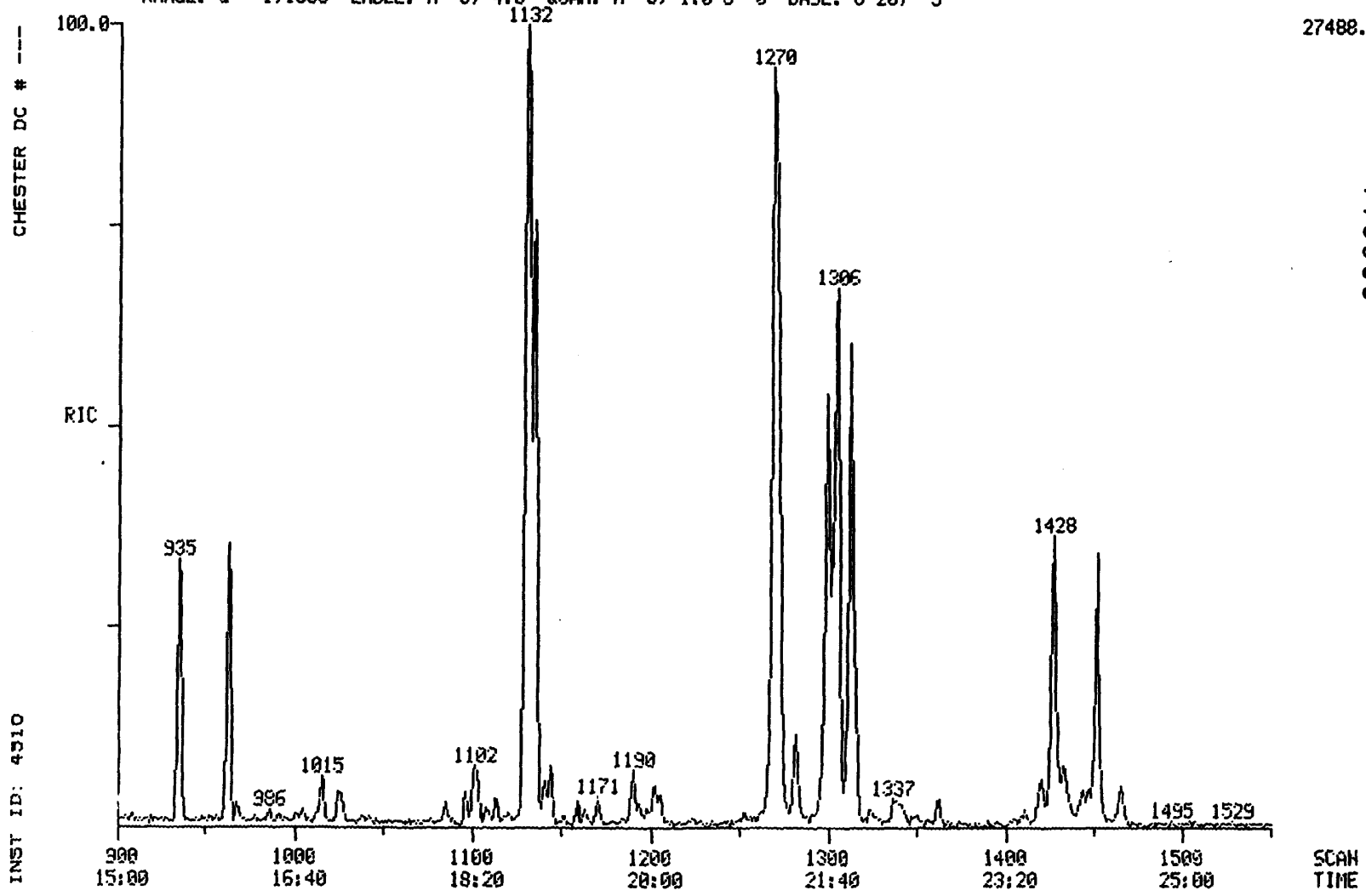
04/25/93 17:47:00
SAMPLE: SC-PW1 (-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C03 #1
CALI: 9U04101C03 #3

SCANS 900 TO 1550



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011360

CHESTER DC # ----14

011361

SEMIVOLATILE SOIL REPORT

SAMPLE ID. SC-FW1 (-200)SUP

FILENAME 9U04101C03 INST ID. 4510

CLIENT DAMES&MO ANALYST JZ

DATE INJECTED 04/25/93 17:47:00 VERIFIED BY

CALIB STD DATE 04/24/93 CORR. FACTOR 3.30

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT	RRT	AREA
211	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	66 UG/KG	1.000	10217
351	CI40	NAPHTHALENE-D8 ** IS2 **		136	66 UG/KG	1.000	39074
578	CI50	ACENAPHTHENE-D10 ** IS3 **		164	66 UG/KG	1.000	23560
772	CI60	PHENANTHRENE-D10 ** IS4 **		188	66 UG/KG	1.000	36916
1133	CI70	CHRYSENE-D12 ** IS5 **		240	66 UG/KG	1.000	22289
1313	CI75	PERYLENE-D12 ** IS6 **		264	66 UG/KG	1.000	18830
775	C640	PHENANTHRENE	44B	178	6 UG/KG	1.004	3404
781	C645	ANTHRACENE	3B	178	3 UG/KG	1.012	1480
935	C655	FLUORANTHENE	31B	202	26 UG/KG	1.211	12698
962	C715	PYRENE	45B	202	26 UG/KG	0.849	12253
1131	C730	BENZO(A)ANTHRACENE	5B	228	71 UG/KG	0.998	26363
1136	C740	CHRYSENE	18B	228	81 UG/KG	1.003	26034
1270	C765	BENZO(B)FLUORANTHENE	7B	252	138 UG/KG	0.967	52698
1315	C775	BENZO(A)PYRENE	6B	252	23 UG/KG	1.002	6544
1446	C785	DIBENZO(A,H)ANTHRACENE	19B	278	14 UG/KG	1.101	2860
1466	C790	BENZO(GHI)PERYLENE	8B	276	11 UG/KG	1.117	2393

SURROGATES WERE DILUTED OUT

011362

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW3 (-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410104
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW 4/14/93
DATE EXTRACTED: .....
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C04

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	66 U	R
C740	CHRYSENE	66 U	R
C765	BENZO(B)FLUORANTHENE	66	160
C770	BENZO(K)FLUORANTHENE	66 U	R
C775	BENZO(A)PYRENE	66	26 J
C780	INDENO(1,2,3-CD)PYRENE	66	69
C785	DIBENZO(A,H)ANTHRACENE	66	10 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011362

011363

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW3 (-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410104
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C04

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	66 U	R
C540	ACENAPHTHYLENE	66 U	R
C550	ACENAPHTHENE	66 U	R
C590	FLUORENE	66 U	R
C640	PHENANTHRENE	66	53 J
C645	ANTHRACENE	66	29 J
C655	FLUORANTHENE	66	170
C715	PYRENE	66	140
C730	BENZO(A)ANTHRACENE	66 U	R
C740	CHRYSENE	66 U	R
C765	BENZO(B)FLUORANTHENE	66	160
C770	BENZO(K)FLUORANTHENE	66 U	R
C775	BENZO(A)PYRENE	66	26 J
C780	INDENO(1,2,3-CD)PYRENE	66	69
C785	DIBENZO(A,H)ANTHRACENE	66	10 J
C790	BENZO(GHI)PERYLENE	66	9 J

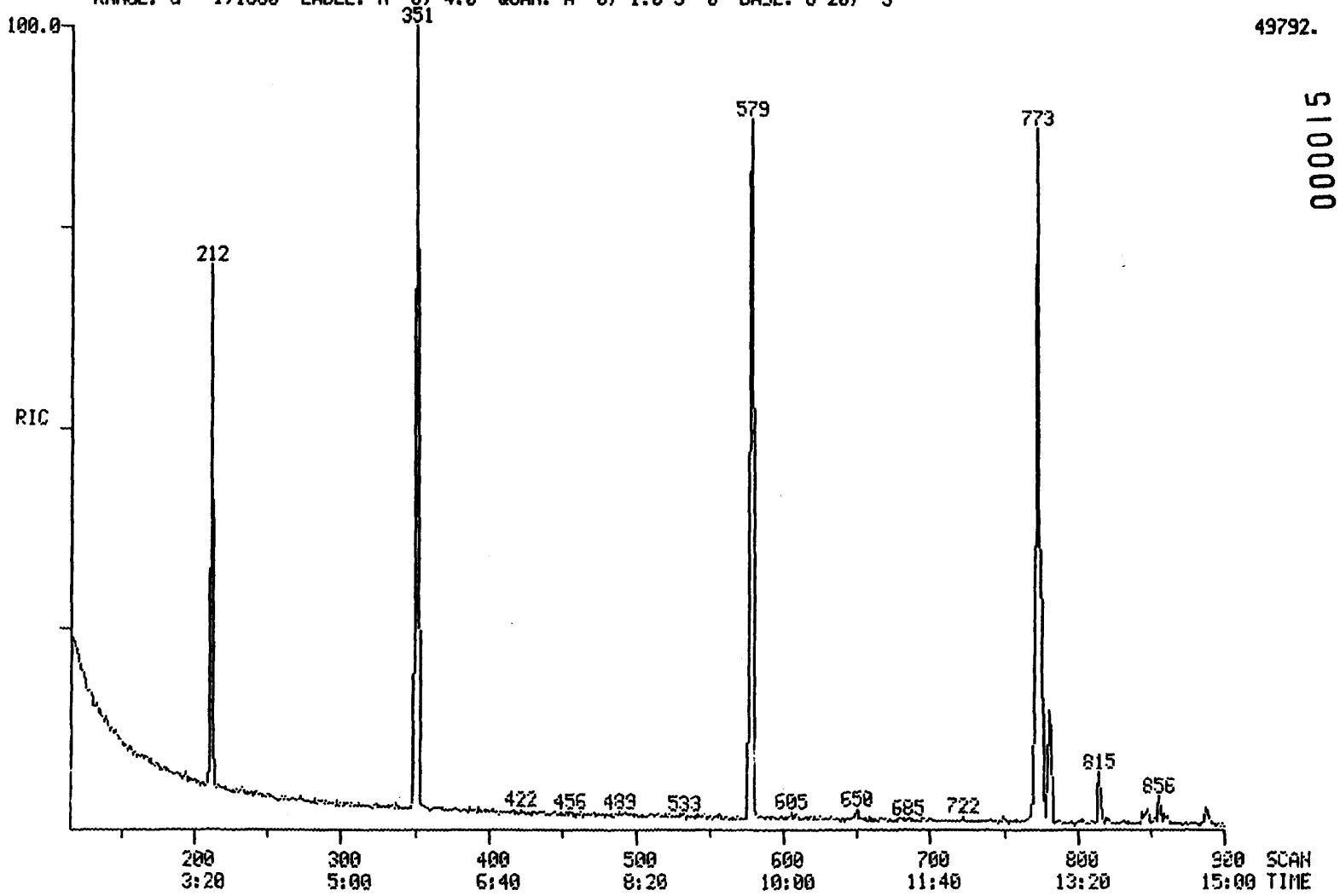
U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011363

-14

RIC
04/25/93 18:25:00
SAMPLE: SC-PW3 (-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C04 #1 SCANS 115 TO 900
CALI: 9U04101C04 #3



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CHESTER DC # ---

INST ID: 4510

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011364

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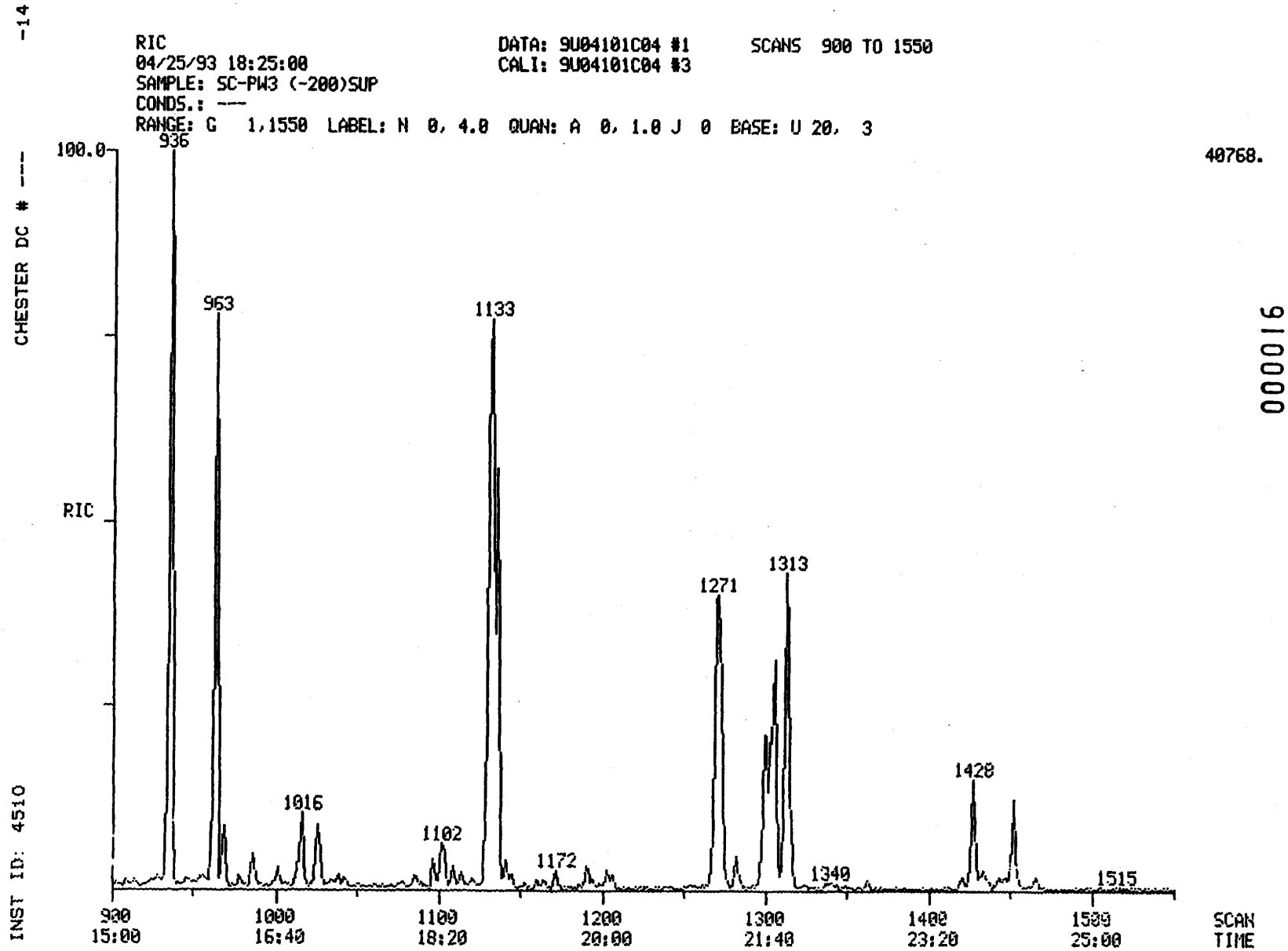

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011365

011365

011366

CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID. SC-PW3 (-200)SUP

FILENAME 9U04101C04 INST ID. 4510

CLIENT DAMES&MO ANALYST JZ

DATE INJECTED 04/25/93 18:25:00 VERIFIED BY

CALIB STD DATE 04/24/93 CORR. FACTOR 6.60

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	ARE
212	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	132	UG/KG	1.000	113
351	CI40	NAPHTHALENE-D8 ** IS2 **		136	132	UG/KG	1.000	460
579	CI50	ACENAPHTHENE-D10 ** IS3 **		164	132	UG/KG	1.000	272
773	CI60	PHENANTHRENE-D10 ** IS4 **		188	132	UG/KG	1.000	443
1133	CI70	CHRYSENE-D12 ** IS5 **		240	132	UG/KG	1.000	269
1313	CI75	PERYLENE-D12 ** IS6 **		264	132	UG/KG	1.000	219
775	C640	PHENANTHRENE	44B	178	53	UG/KG	1.003	175
781	C645	ANTHRACENE	3B	178	29	UG/KG	1.010	87
936	C655	FLUORANTHENE	31B	202	172	UG/KG	1.211	511
963	C715	PYRENE	45B	202	135	UG/KG	0.850	382
1270	C765	BENZO(B)FLUORANTHENE	7B	252	158	UG/KG	0.967	351
1316	C775	BENZO(A)PYRENE	6B	252	26	UG/KG	1.002	43
1452	C780	INDENO(1,2,3-CD)PYRENE	37B	276	69	UG/KG	1.106	83
1447	C785	DIBENZO(A,H)ANTHRACENE	19B	278	10	UG/KG	1.102	11
1466	C790	BENZO(GHI)PERYLENE	8B	276	9	UG/KG	1.117	12

SURROGATES WERE DILUTED OUT

011367

CHESTER DC # --- - 8

INST ID: 4310

SAMPLE NUMBER: SC-PW4(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
CASE NO.: ---
LAB SAMPLE ID NO.: 930410105
QC REPORT NO.: 04/24/93
SAMPLE MATRIX: SOIL
CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: .....
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATAFILE: 9U04101C05
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	33	4 J
C740	CHRYSENE	33	6 J
C765	BENZO(B)FLUORANTHENE	33	5 J
C770	BENZO(K)FLUORANTHENE	33	5 J
C775	BENZO(A)PYRENE	33 U	R
C780	INDENO(1,2,3-CD)PYRENE	33 U	R
C785	DIBENZO(A,H)ANTHRACENE	33 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW4(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410105
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
GC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C05

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	33 U	R
C540	ACENAPHTHYLENE	33 U	R
C550	ACENAPHTHENE	33 U	R
C590	FLUORENE	33 U	R
C640	PHENANTHRENE	33	16 J
C645	ANTHRACENE	33	5 J
C655	FLUORANTHENE	33	20 J
C715	PYRENE	33	11 J
C730	BENZO(A)ANTHRACENE	33	4 J
C740	CHRYSENE	33	6 J
C765	BENZO(B)FLUORANTHENE	33	5 J
C770	BENZO(K)FLUORANTHENE	33	5 J
C775	BENZO(A)PYRENE	33 U	R
C780	INDENO(1,2,3-CD)PYRENE	33 U	R
C785	DIBENZO(A,H)ANTHRACENE	33 U	R
C790	BENZO(GHI)PERYLENE	33 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

-14

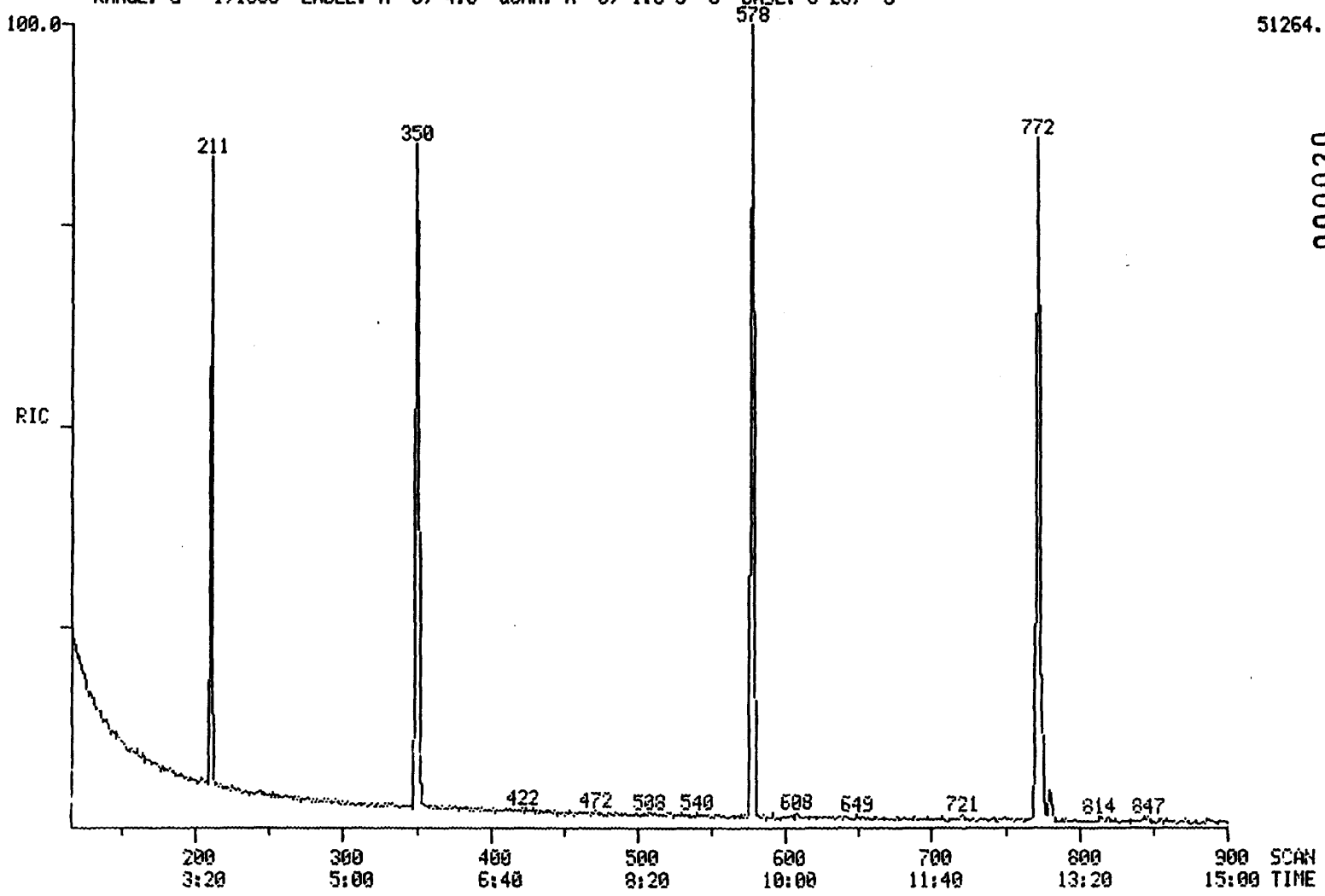
CHESTER DC # ---

INST ID: 4510

RIC
04/25/93 19:02:00
SAMPLE: SC-PW4(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C05 #1
CALI: 9U04101C05 #3

SCANS 115 TO 900



000020

011369

011369

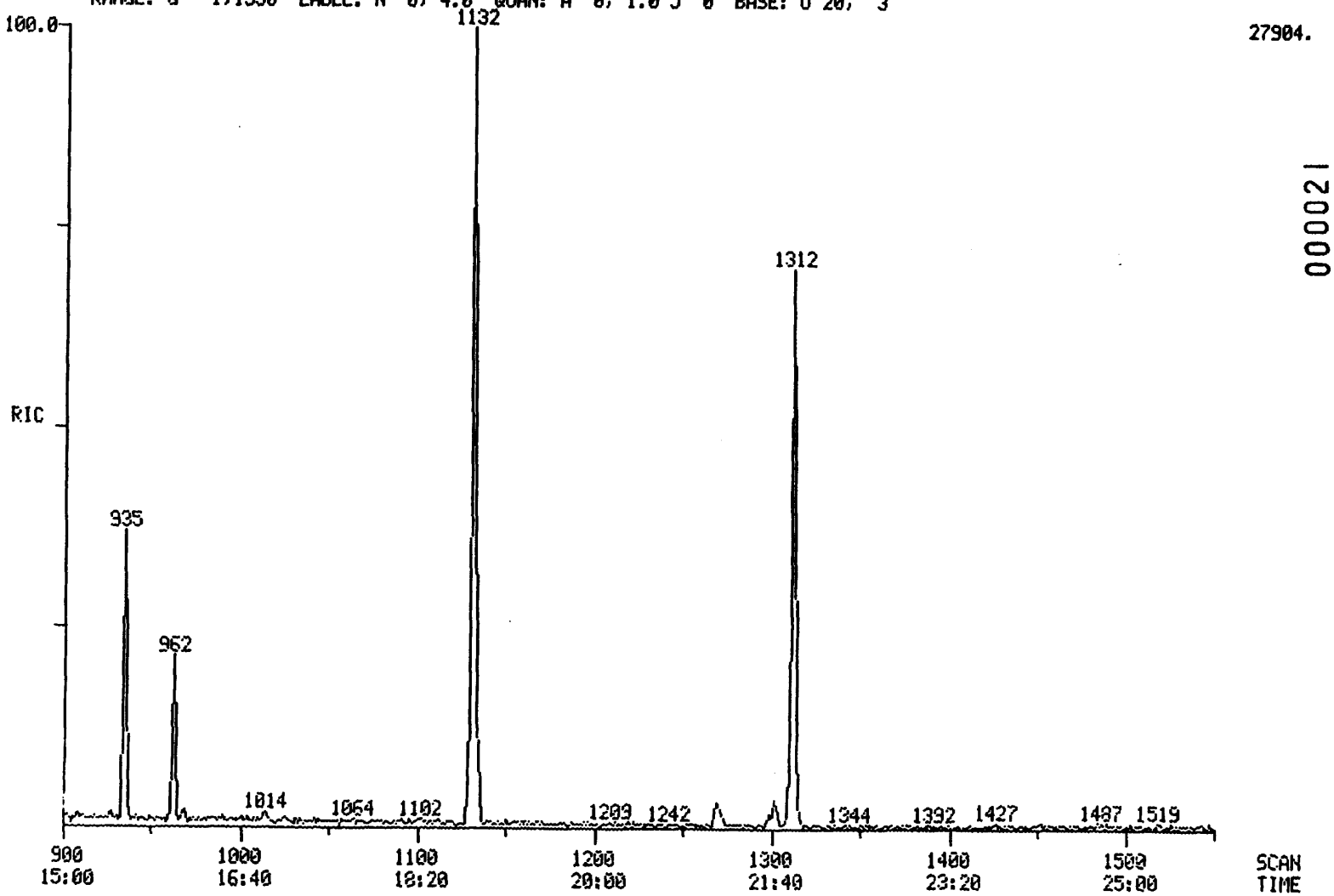
-14

CHESTER DC # ---

INST ID: 4510

RIC
04/25/93 19:02:00
SAMPLE: SC-PW4(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C05 #1 SCANS 900 TO 1550
CALI: 9U04101C05 #3



000021

011370

011370

011371

CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID. 5C-PW4(-200)SUP

FILENAME 9U04101C05 INST ID. 4510

CLIENT DAMES&MO ANALYST JZ

DATE INJECTED 04/25/93 19:02:00 VERIFIED BY

CALIB STD DATE 04/24/93 CORR. FACTOR 3.30

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT	RRT	AREA
211	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	66 UG/KG	1.000	1156
350	CI40	NAPHTHALENE-D8 ** IS2 **		136	66 UG/KG	1.000	4543
578	CI50	ACENAPHTHENE-D10 ** IS3 **		164	66 UG/KG	1.000	2728
772	CI60	PHENANTHRENE-D10 ** IS4 **		188	66 UG/KG	1.000	4371
1132	CI70	CHRYSENE-D12 ** IS5 **		240	66 UG/KG	1.000	2703
1312	CI75	PERYLENE-D12 ** IS6 **		264	66 UG/KG	1.000	2176
775	C640	PHENANTHRENE	44B	178	16 UG/KG	1.004	1068
780	C645	ANTHRACENE	3B	178	5 UG/KG	1.010	288
935	C655	FLUORANTHENE	31B	202	20 UG/KG	1.211	1169
962	C715	PYRENE	45B	202	11 UG/KG	0.850	632
1130	C730	BENZO(A)ANTHRACENE	5B	228	4 UG/KG	0.998	200
1135	C740	CHRYSENE	18B	228	6 UG/KG	1.003	222
1269	C765	BENZO(B)FLUORANTHENE	7B	252	5 UG/KG	0.967	224
1269	C770	BENZO(K)FLUORANTHENE	9B	252	5 UG/KG	0.967	224

SURROGATES WERE DILUTED OUT

011372

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW5(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410106
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C06

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	7	1 J
C740	CHRYSENE	7	2 J
C765	BENZO(B)FLUORANTHENE	7	2 J
C770	BENZO(K)FLUORANTHENE	7 U	R
C775	BENZO(A)PYRENE	7 U	R
C780	INDENO(1,2,3-CD)PYRENE	7 U	R
C785	DIBENZO(A,H)ANTHRACENE	7 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

000023

011372

011373

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW5(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410106
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

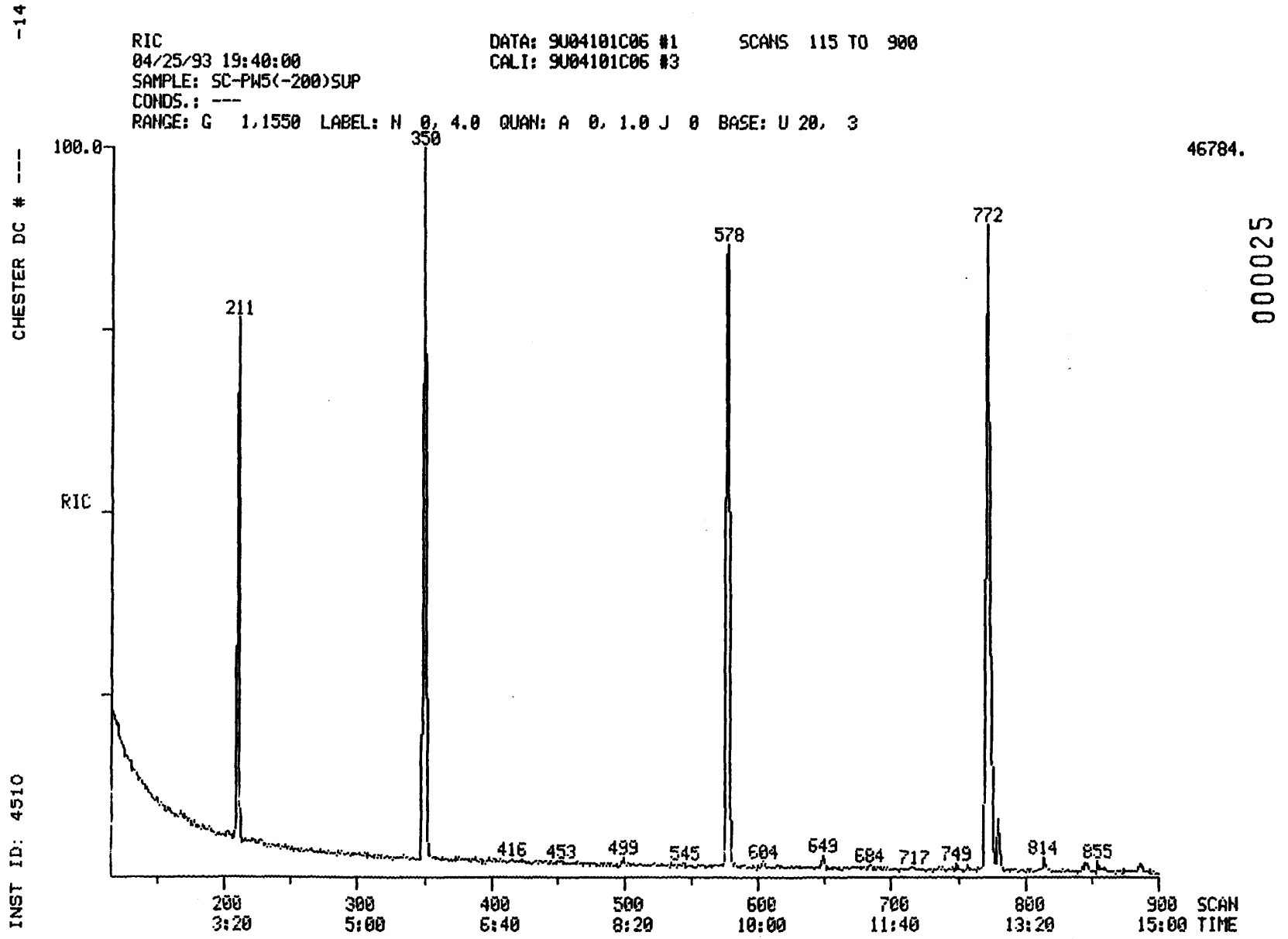
SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C06

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	7 U	R
C540	ACENAPHTHYLENE	7 U	R
C550	ACENAPHTHENE	7 U	R
C590	FLUORENE	7 U	R
C640	PHENANTHRENE	7	5 J
C645	ANTHRACENE	7	1 J
C655	FLUORANTHENE	7	6 J
C715	PYRENE	7	3 J
C730	BENZO(A)ANTHRACENE	7	1 J
C740	CHRYSENE	7	2 J
C765	BENZO(B)FLUORANTHENE	7	2 J
C770	BENZO(K)FLUORANTHENE	7 U	R
C775	BENZO(A)PYRENE	7 U	R
C780	INDENO(1,2,3-CD)PYRENE	7 U	R
C785	DIBENZO(A,H)ANTHRACENE	7 U	R
C790	BENZO(GHI)PERYLENE	7 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



000025

011374

011374

-14

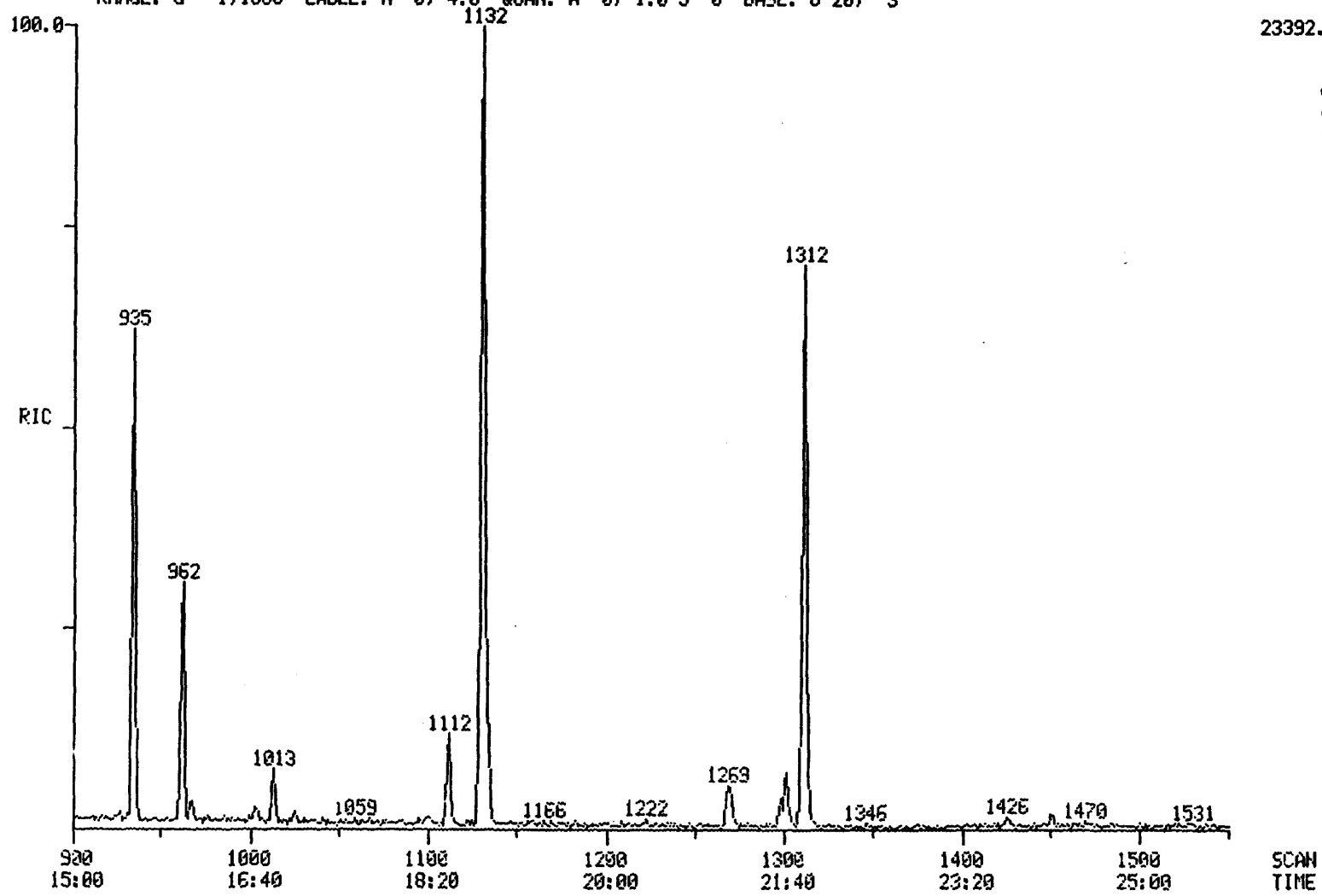
RIC
04/25/93 19:40:00
SAMPLE: SC-PW5(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C06 #1
CALI: 9U04101C06 #3

SCANS 900 TO 1550

CHESTER DC # ---

INST ID: 4510



000026

011375

011375

011376

CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID. SC-PW5(-200)SUP

FILENAME 9U04101C06 INST ID. 4510

CLIENT DAMES&MO ANALYST JZ

DATE INJECTED 04/25/93 19:40:00 VERIFIED BY

CALIB STD DATE 04/24/93 CORR. FACTOR 0.66

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT	RRT	AREA
211	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	13 UG/KG	1.000	1151
350	CI40	NAPHTHALENE-D8 ** IS2 **		136	13 UG/KG	1.000	4400
577	CI50	ACENAPHTHENE-D10 ** IS3 **		164	13 UG/KG	1.000	2634
772	CI60	PHENANTHRENE-D10 ** IS4 **		188	13 UG/KG	1.000	4376
1132	CI70	CHRYSENE-D12 ** IS5 **		240	13 UG/KG	1.000	2509
1312	CI75	PERYLENE-D12 ** IS6 **		264	13 UG/KG	1.000	1924
774	C640	PHENANTHRENE	44B	178	5 UG/KG	1.003	1758
780	C645	ANTHRACENE	3B	178	1 UG/KG	1.010	425
935	C655	FLUORANTHENE	31B	202	6 UG/KG	1.211	1668
962	C715	PYRENE	45B	202	3 UG/KG	0.850	906
1130	C730	BENZO(A)ANTHRACENE	5B	228	1 UG/KG	0.998	217
1134	C740	CHRYSENE	18B	228	2 UG/KG	1.002	303
1269	C765	BENZO(B)FLUORANTHENE	7B	252	2 UG/KG	0.967	312

SURROGATES WERE,DILUTED OUT

011377

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW6(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET

CASE NO.: ---

LAB SAMPLE ID NO.: 930410107

QC REPORT NO.: 04/24/93

SAMPLE MATRIX: SOIL

CONTRACT NO.: ---

DATA RELEASE AUTHORIZED BY: .....

DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW

DATAFILE: 9U04101C07

DATE EXTRACTED: 4/14/93

DATE ANALYZED: 04/25/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	33	26 J
C740	CHRYSENE	33	28 J
C765	BENZO(B)FLUORANTHENE	33	16 J
C770	BENZO(K)FLUORANTHENE	33 U	R
C775	BENZO(A)PYRENE	33	7 J
C780	INDENO(1,2,3-CD)PYRENE	33 U	R
C785	DIBENZO(A,H)ANTHRACENE	33 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT

J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011378

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW6(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410107
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C07

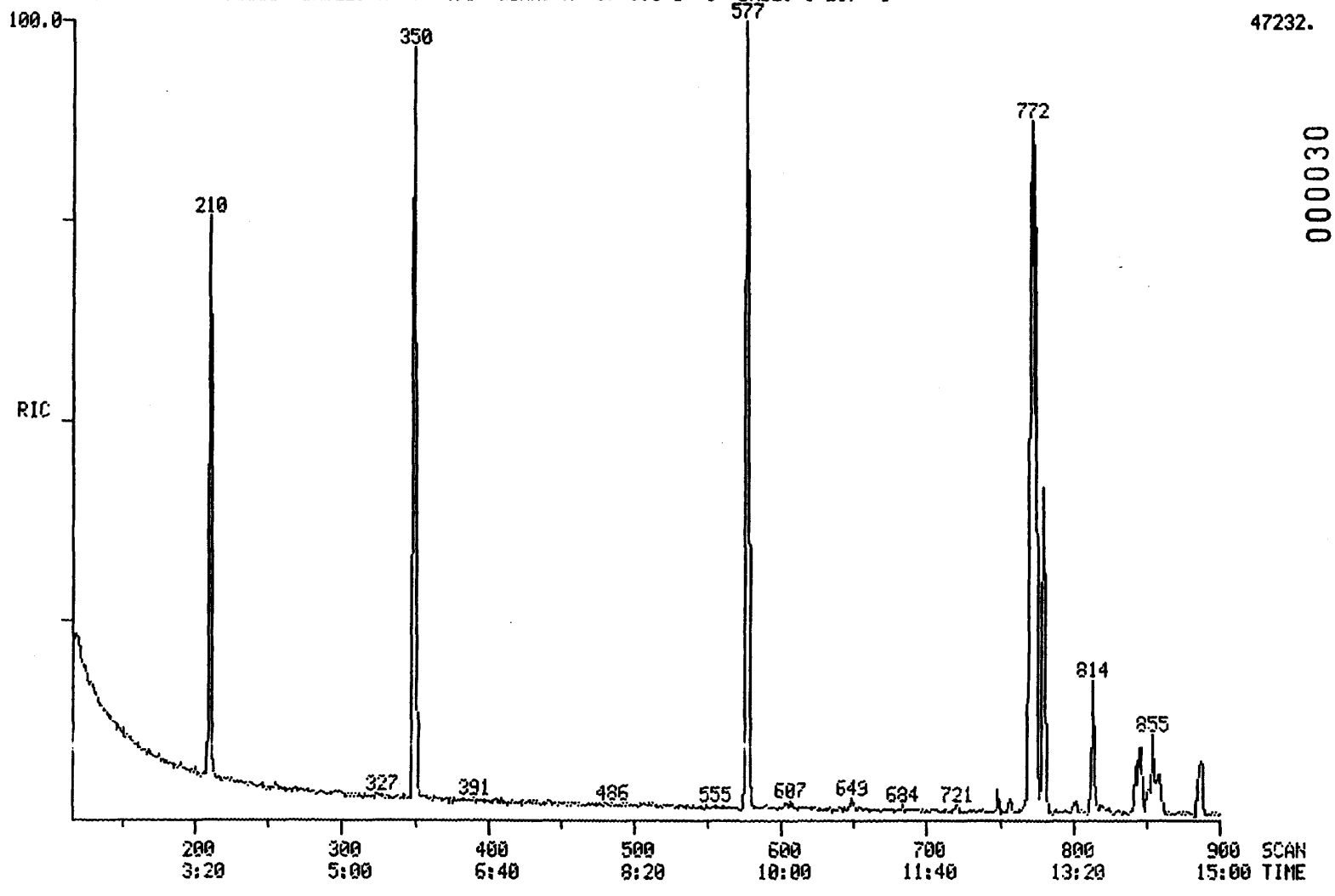
	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	33 U	R
C540	ACENAPHTHYLENE	33 U	R
C550	ACENAPHTHENE	33 U	R
C590	FLUORENE	33 U	R
C640	PHENANTHRENE	33	68
C645	ANTHRACENE	33	32 J
C655	FLUORANTHENE	33	140
C715	PYRENE	33	92
C730	BENZO(A)ANTHRACENE	33	26 J
C740	CHRYSENE	33	28 J
C765	BENZO(B)FLUORANTHENE	33	16 J
C770	BENZO(K)FLUORANTHENE	33 U	R
C775	BENZO(A)PYRENE	33	7 J
C780	INDENO(1,2,3-CD)PYRENE	33 U	R
C785	DIBENZO(A,H)ANTHRACENE	33 U	R
C790	BENZO(GHI)PERYLENE	33 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

-14

RIC
04/25/93 20:17:00
SAMPLE: SC-PW6(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C07 #1 SCANS 115 TO 900
CALI: 9U04101C07 #3



CHESTER DC # ---

INST ID: 4510

000030

011379

011379

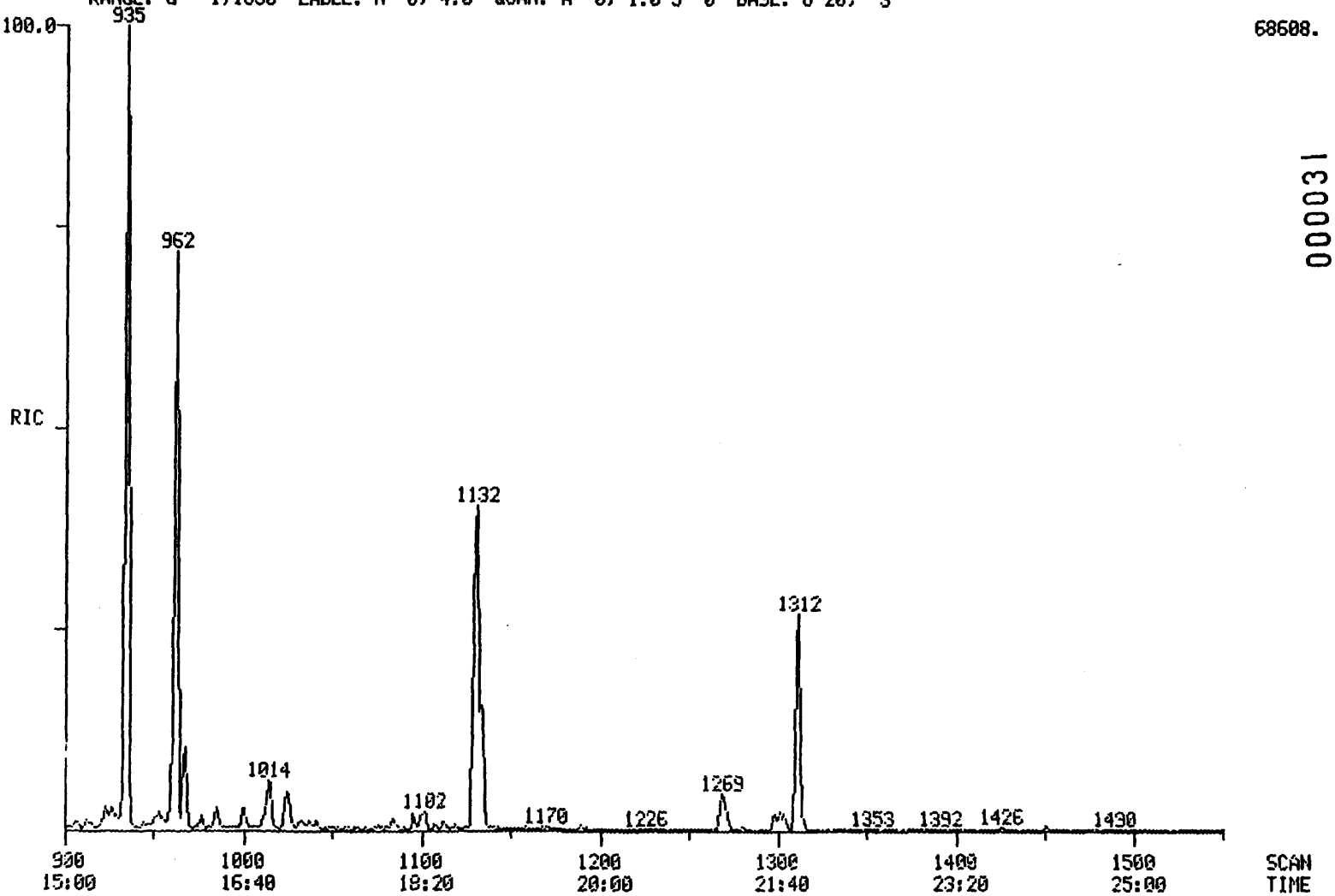
-14

RIC
04/25/93 20:17:00
SAMPLE: SC-PW6(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C07 #1 SCANS 900 TO 1550
CALI: 9U04101C07 #3

CHESTER DC # ---

INST ID: 4510



68608.

000031

011380

011380

011381

CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID. SC-PW6(-200)SUP

FILENAME 9U04101C07 INST ID. 4510

CLIENT DAMES&MO ANALYST JZ

DATE INJECTED 04/25/93 20:17:00 VERIFIED BY

CALIB STD DATE 04/24/93 CORR. FACTOR 3.30

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	AREA
210	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	66	UG/KG	1.000	1116
350	CI40	NAPHTHALENE-D8 ** IS2 **		136	66	UG/KG	1.000	44307
577	CI50	ACENAPHTHENE-D10 ** IS3 **		164	66	UG/KG	1.000	2693
772	CI60	PHENANTHRENE-D10 ** IS4 **		188	66	UG/KG	1.000	4372
1132	CI70	CHRYSENE-D12 ** IS5 **		240	66	UG/KG	1.000	2834
1311	CI75	PERYLENE-D12 ** IS6 **		264	66	UG/KG	1.000	22161
774	C640	PHENANTHRENE	44B	178	68	UG/KG	1.003	4451
780	C645	ANTHRACENE	3B	178	32	UG/KG	1.010	1938
935	C655	FLUORANTHENE	31B	202	142	UG/KG	1.211	83194
962	C715	PYRENE	45B	202	92	UG/KG	0.850	5488
1130	C730	BENZO(A)ANTHRACENE	5B	228	26	UG/KG	0.998	1220
1134	C740	CHRYSENE	18B	228	28	UG/KG	1.002	1136
1269	C765	BENZO(B)FLUORANTHENE	7B	252	16	UG/KG	0.968	719
1304	C775	BENZO(A)PYRENE	6B	252	7	UG/KG	0.995	2271

SURROGATES WERE DILUTED OUT

011382

CHESTER DC # --- - 8

INST ID: 4510 SAMPLE NUMBER: SC-PW7(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930410108 QC REPORT NO.: 04/24/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: ..4/14/93...

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04101C08
DATE EXTRACTED: ...4/14/93...
DATE ANALYZED: 04/25/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	66	56 J
C740	CHRYSENE	66	60 J
C765	BENZO(B)FLUORANTHENE	66	33 J
C770	BENZO(K)FLUORANTHENE	66	34 J
C775	BENZO(A)PYRENE	66	17 J
C780	INDENO(1,2,3-CD)PYRENE	66 U	R
C785	DIBENZO(A,H)ANTHRACENE	66 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011383

CHESTER DC # --- - 8

INST ID: 4510 SAMPLE NUMBER: SC-PW7(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

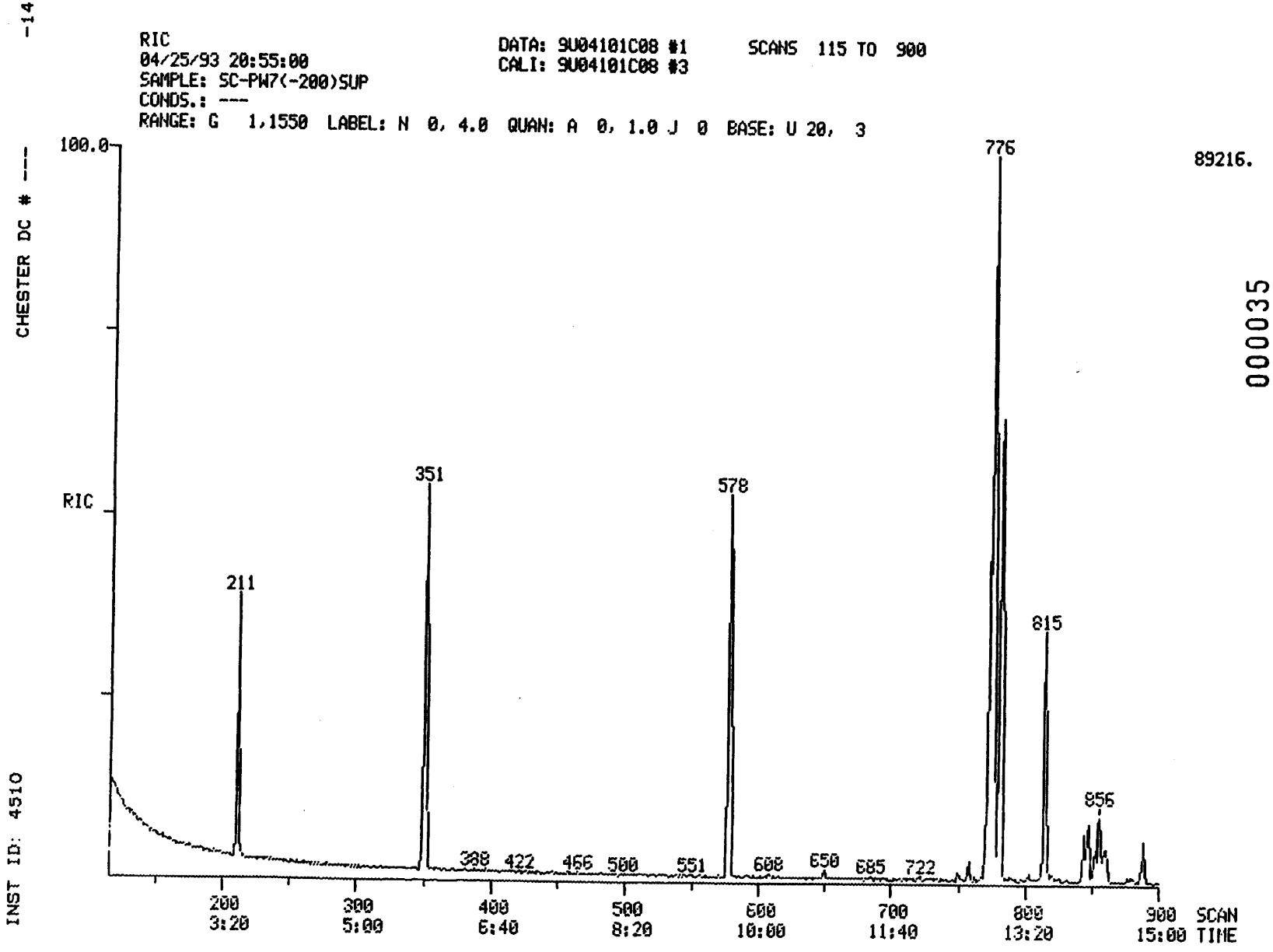
LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930410108 QC REPORT NO.: 04/24/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/4/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04101C08
DATE EXTRACTED: ....4/14/93..
DATE ANALYZED: 04/25/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	66 U	R
C540	ACENAPHTHYLENE	66 U	R
C550	ACENAPHTHENE	66 U	R
C590	FLUORENE	66 U	R
C640	PHENANTHRENE	66	270
C645	ANTHRACENE	66	200
C655	FLUORANTHENE	66	320
C715	PYRENE	66	220
C730	BENZO(A)ANTHRACENE	66	56 J
C740	CHRYSENE	66	60 J
C765	BENZO(B)FLUORANTHENE	66	33 J
C770	BENZO(K)FLUORANTHENE	66	34 J
C775	BENZO(A)PYRENE	66	17 J
C780	INDENO(1,2,3-CD)PYRENE	66 U	R
C785	DIBENZO(A,H)ANTHRACENE	66 U	R
C790	BENZO(GHI)PERYLENE	66 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



000035

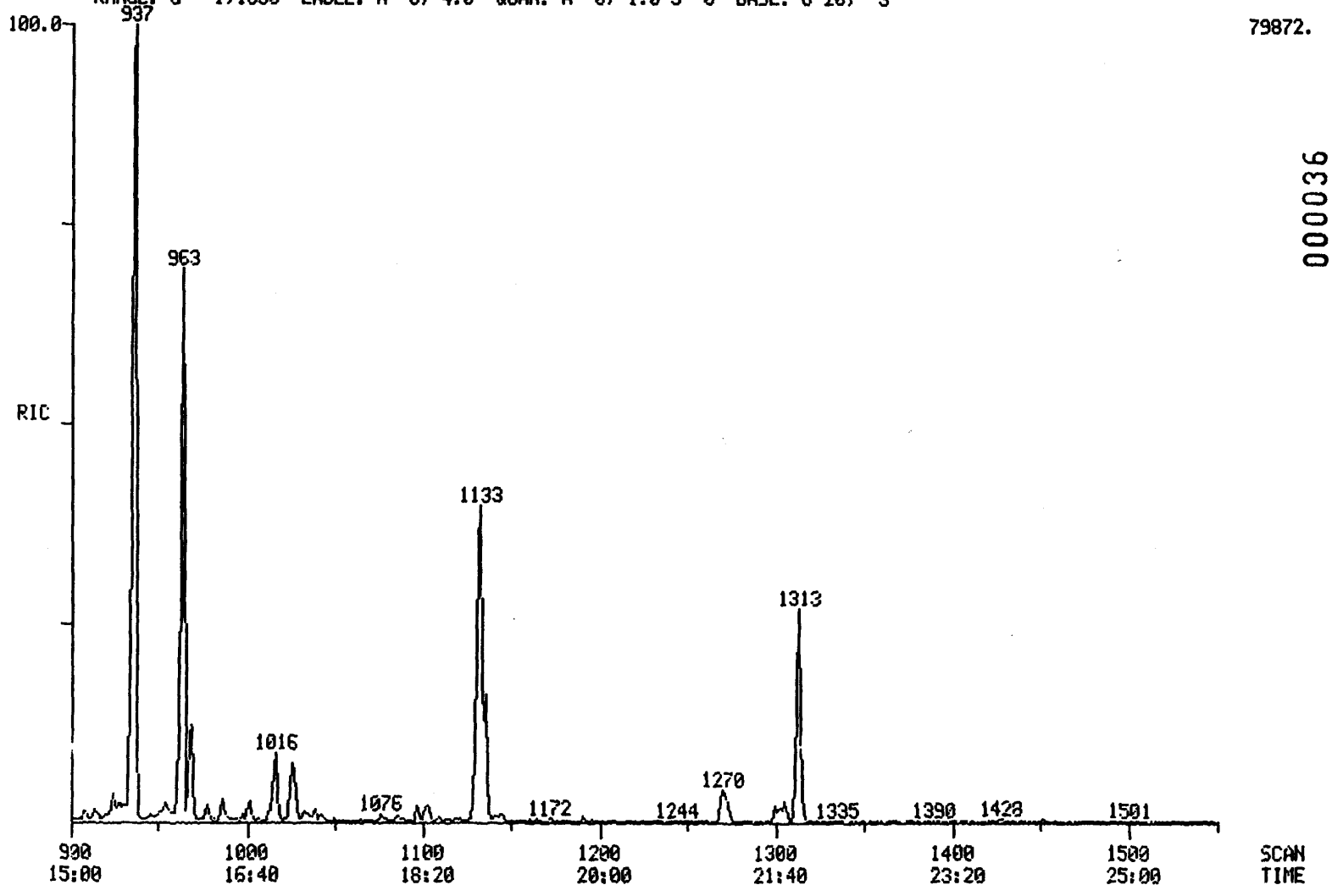
011384

011384

-14

RIC
04/25/93 20:55:00
SAMPLE: SC-PW7(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C08 #1 SCANS 900 TO 1550
CALI: 9U04101C08 #3



79872.

000036

011385

011385

011386

SAMPLE ID.	SC-PW7(-200)SUP		
FILENAME	9U04101C08	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JZ
DATE INJECTED	04/25/93 20:55:00	VERIFIED BY	
CALIB STD DATE	04/24/93	CORR. FACTOR	6.60

SCAN#		SEMI[illegible]ATILE COMPOUNDS		M/E	AMOUNT	RRT	AREA
211	CI30	1,4-DICH[illegible]ZENE-D4 ** IS1 **		152	132 UG/KG	1.000	1148
351	CI40	NAPHTHAL[illegible] IS2 **		136	132 UG/KG	1.000	4657
578	CI50	ACENAPHT[illegible]D10 ** IS3 **		164	132 UG/KG	1.000	2815
773	CI60	PHENANTH[illegible]D10 ** IS4 **		188	132 UG/KG	1.000	4655
1133	CI70	CHRYSENE[illegible] ** IS5 **		240	132 UG/KG	1.000	2954
1313	CI75	PERYLENE[illegible] ** IS6 **		264	132 UG/KG	1.000	2353
776	C640	PHENANTHRENE	44B	178	272 UG/KG	1.004	9467[illegible]
782	C645	ANTHRACENE	3B	178	204 UG/KG	1.012	6511[illegible]
936	C655	FLUORANTHENE	31B	202	324 UG/KG	1.211	10091[illegible]
963	C715	PYRENE	45B	202	219 UG/KG	0.850	6766[illegible]
1131	C730	BENZO(A)ANTHRACENE	5B	228	56 UG/KG	0.998	1386[illegible]
1136	C740	CHRYSENE	18B	228	60 UG/KG	1.003	1279[illegible]
1270	C765	BENZO(B)FLUORANTHENE	7B	252	33 UG/KG	0.967	778[illegible]
1270	C770	BENZO(K)FLUORANTHENE	9B	252	34 UG/KG	0.967	778[illegible]
1305	C775	BENZO(A)PYRENE	6B	252	17 UG/KG	0.994	306[illegible]

SURROGATES WERE DILUTED OUT

011386

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW8(-200)SUP

011387

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET

CASE NO.: ---

LAB SAMPLE ID NO.: 930410109

GC REPORT NO.: 04/24/93

SAMPLE MATRIX: SOIL

CONTRACT NO.: ---

DATA RELEASE AUTHORIZED BY: .....

DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW

DATAFILE: 9U04101C09

DATE EXTRACTED: 4/14/93

DATE ANALYZED: 04/25/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	132	390
C740	CHRYSENE	132	360
C765	BENZO(B)FLUORANTHENE	132	230
C770	BENZO(K)FLUORANTHENE	132 U	R
C775	BENZO(A)PYRENE	132	32 J
C780	INDENO(1,2,3-CD)PYRENE	132	63 J
C785	DIBENZO(A,H)ANTHRACENE	132 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT

J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011388

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW8(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
CASE NO.: ---
LAB SAMPLE ID NO.: 930410109
GC REPORT NO.: 04/24/93
SAMPLE MATRIX: SOIL
CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: .....
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATAFILE: 9U04101C09
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	132 U	R
C540	ACENAPHTHYLENE	132 U	R
C550	ACENAPHTHENE	132 U	R
C590	FLUORENE	132 U	R
C640	PHENANTHRENE	132	160
C645	ANTHRACENE	132	130 J
C655	FLUORANTHENE	132	1000
C715	PYRENE	132	860
C730	BENZO(A)ANTHRACENE	132	390
C740	CHRYSENE	132	360
C765	BENZO(B)FLUORANTHENE	132	230
C770	BENZO(K)FLUORANTHENE	132 U	R
C775	BENZO(A)PYRENE	132	32 J
C780	INDENO(1,2,3-CD)PYRENE	132	63 J
C785	DIBENZO(A,H)ANTHRACENE	132 U	R
C790	BENZO(GHI)PERYLENE	132 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

-14

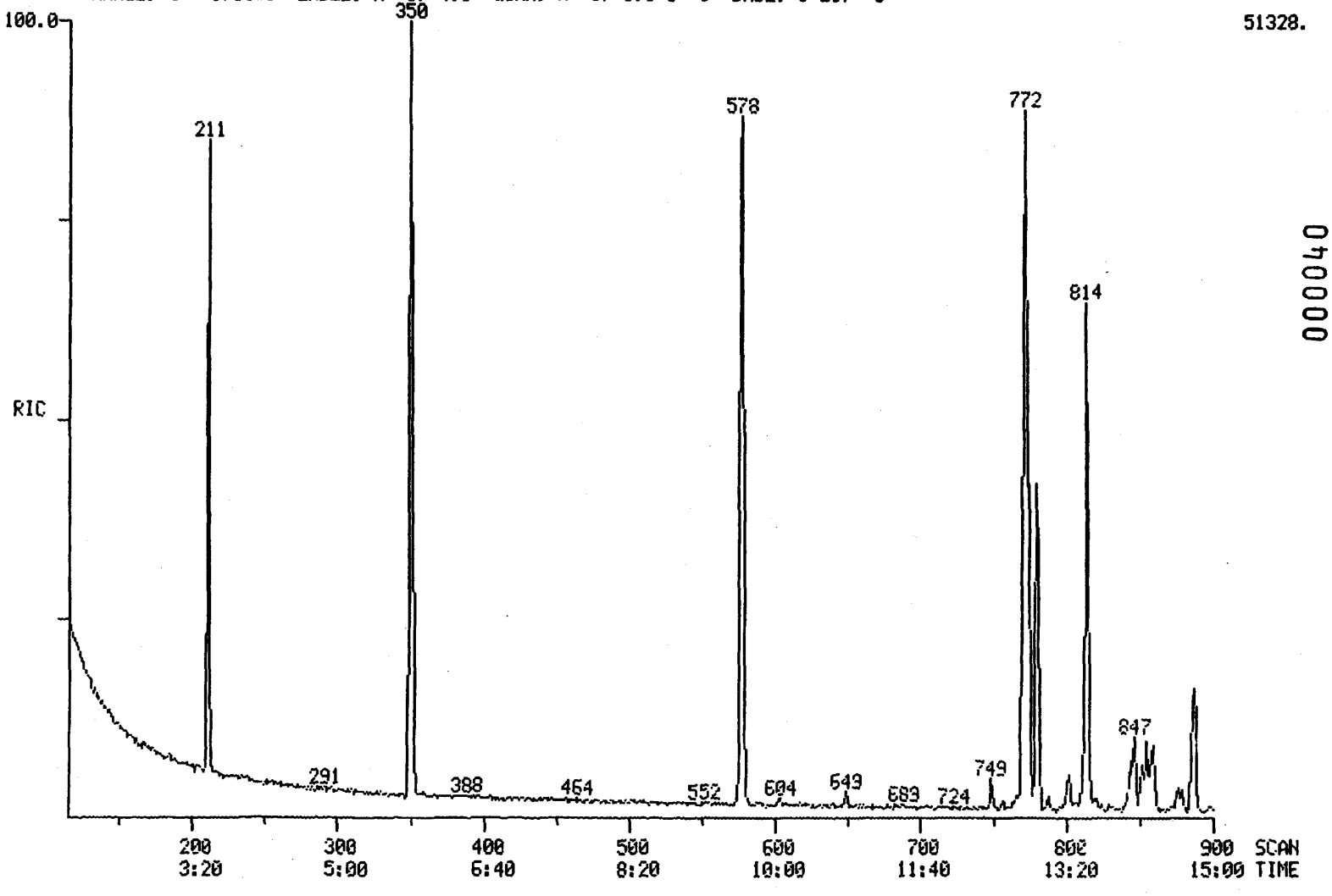
RIC
04/25/93 21:32:00
SAMPLE: SC-PW8(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C09 #1
CALI: 9U04101C09 #3

SCANS 115 TO 900

CHESTER DC # ---

INST ID: 4510



040000

011389

-14

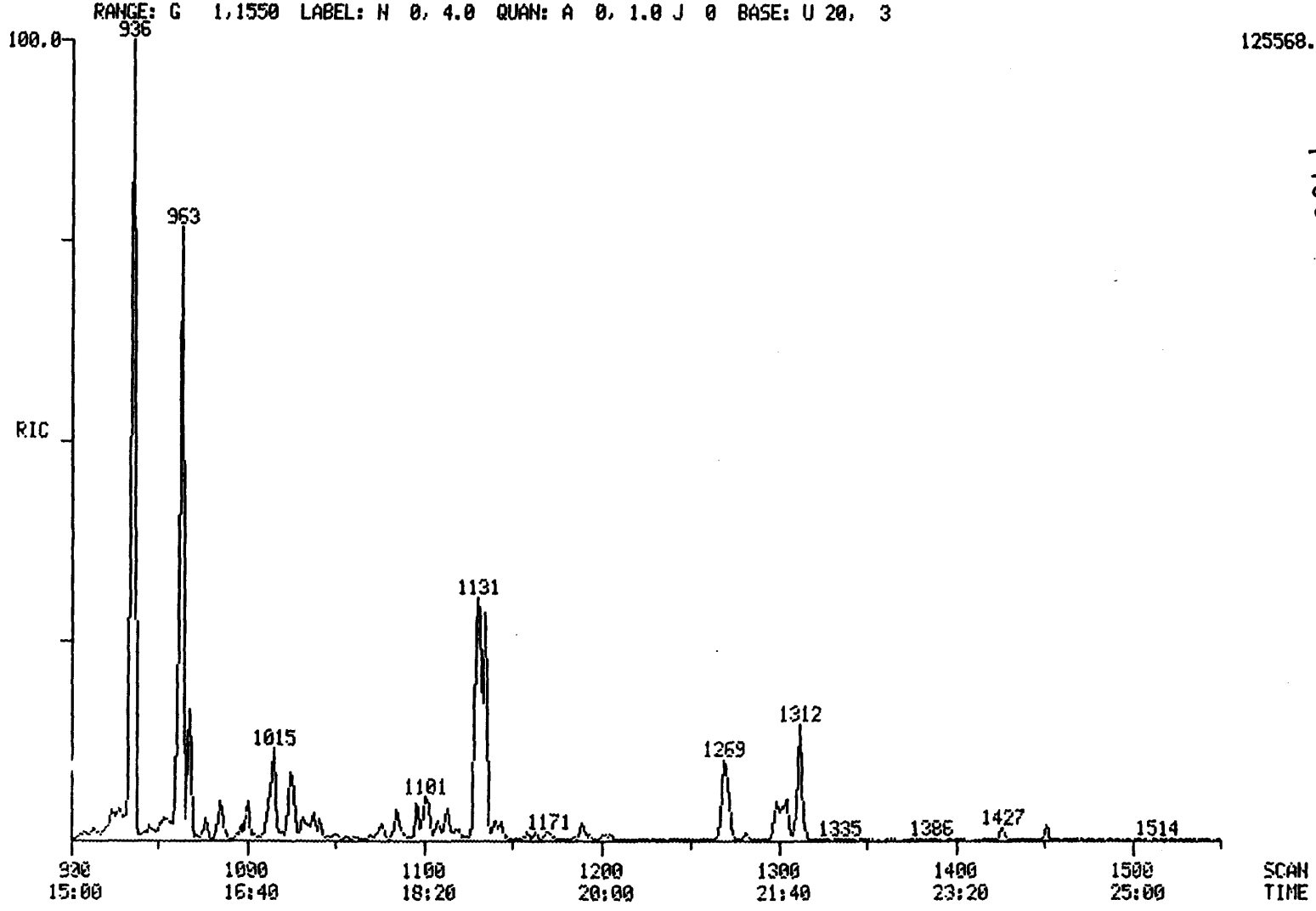
RIC
04/25/93 21:32:00
SAMPLE: SC-PW8(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C09 #1
CALI: 9U04101C09 #3

SCANS 900 TO 1550

CHESTER DC # ---

INST ID: 4510



140000

011390

011390

011391

CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID.	SC-FW8(-200)SUF		
FILENAME	9U04101C09	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JZ
DATE INJECTED	04/25/93 21:32:00	VERIFIED BY	
CALIB STD DATE	04/24/93	CORR. FACTOR	13.20

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	AREA
211	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	264	UG/KG	1.000	1205
350	CI40	NAPHTHALENE-D8 ** IS2 **		136	264	UG/KG	1.000	4797
577	CI50	ACENAPHTHENE-D10 ** IS3 **		164	264	UG/KG	1.000	2959
772	CI60	PHENANTHRENE-D10 ** IS4 **		188	264	UG/KG	1.000	4838
1132	CI70	CHRYSENE-D12 ** IS5 **		240	264	UG/KG	1.000	2625
1312	CI75	PERYLENE-D12 ** IS6 **		264	264	UG/KG	1.000	2157
774	C640	PHENANTHRENE	44B	178	163	UG/KG	1.003	2944
780	C645	ANTHRACENE	3B	178	131	UG/KG	1.010	2175
936	C655	FLUORANTHENE	31B	202	1002	UG/KG	1.212	16237
963	C715	PYRENE	45B	202	858	UG/KG	0.851	11790
1130	C730	BENZO(A)ANTHRACENE	5B	228	386	UG/KG	0.998	4216
1135	C740	CHRYSENE	18B	228	358	UG/KG	1.003	3405
1269	C765	BENZO(B)FLUORANTHENE	7B	252	234	UG/KG	0.967	2558
1315	C775	BENZO(A)PYRENE	6B	252	32	UG/KG	1.002	267
1451	C780	INDENO(1,2,3-CD)PYRENE	37B	276	63	UG/KG	1.106	373

SURROGATES WERE DILUTED OUT

011391

011392

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW9(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410110
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
GC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C10

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	66	91
C740	CHRYSENE	66	82
C765	BENZO(B)FLUORANTHENE	66	49 J
C770	BENZO(K)FLUORANTHENE	66	51 J
C775	BENZO(A)PYRENE	66	6 J
C780	INDENO(1,2,3-CD)PYRENE	66	9 J
C785	DIBENZO(A,H)ANTHRACENE	66 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011393

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW9(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410110
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C10

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	66 U	R
C540	ACENAPHTHYLENE	66 U	R
C550	ACENAPHTHENE	66 U	R
C590	FLUORENE	66	10 J
C640	PHENANTHRENE	66	310
C645	ANTHRACENE	66	160
C655	FLUORANTHENE	66	420
C715	PYRENE	66	290
C730	BENZO(A)ANTHRACENE	66	91
C740	CHRYSENE	66	82
C765	BENZO(B)FLUORANTHENE	66	49 J
C770	BENZO(K)FLUORANTHENE	66	51 J
C775	BENZO(A)PYRENE	66	6 J
C780	INDENO(1,2,3-CD)PYRENE	66	9 J
C785	DIBENZO(A,H)ANTHRACENE	66 U	R
C790	BENZO(GHI)PERYLENE	66 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

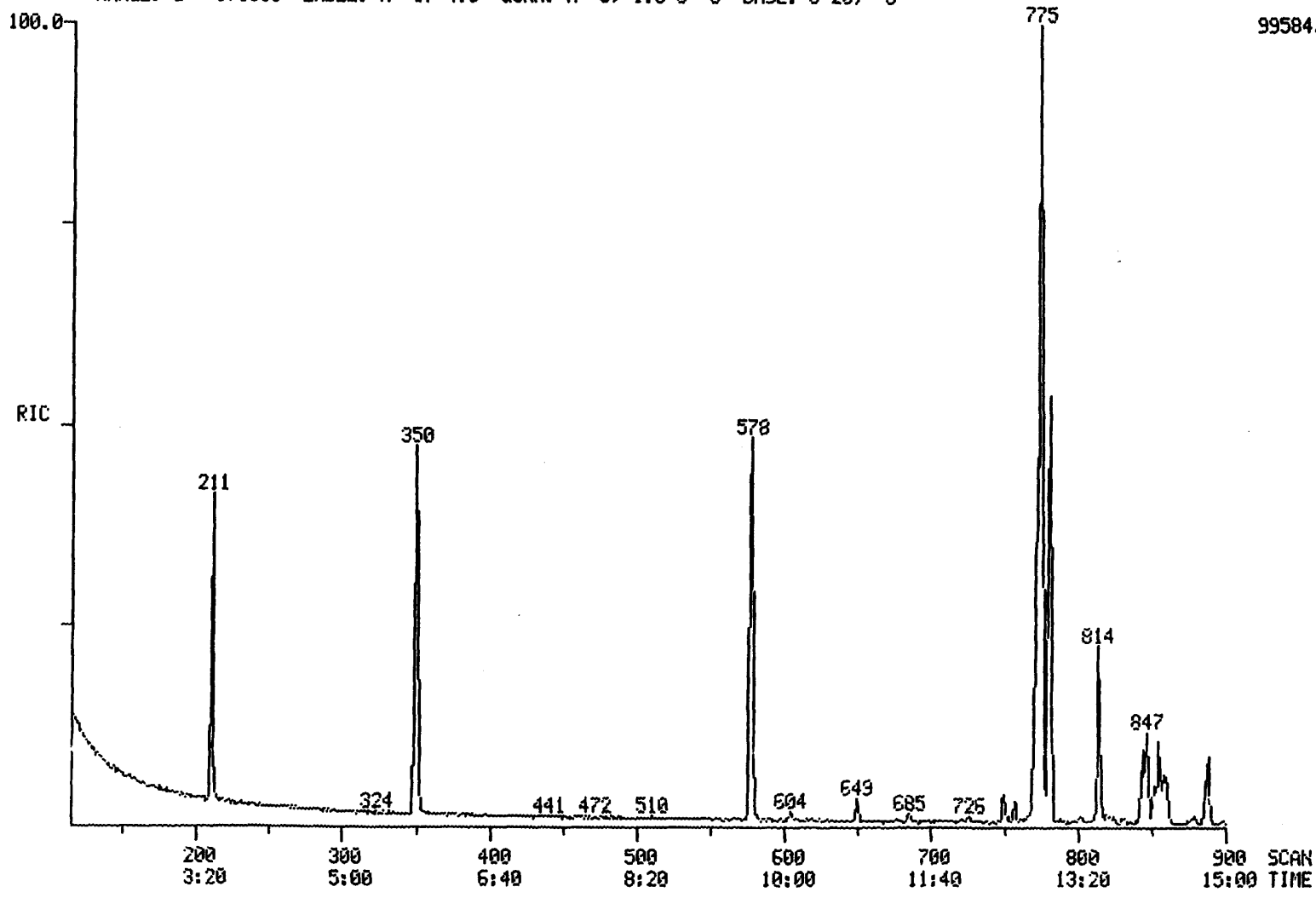
000044

-14

RIC
04/25/93 22:10:00
SAMPLE: SC-PW9(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C10 #1
CALI: 9U04101C10 #3

SCANS 115 TO 900



CHESTER DC # ---

INST ID: 4510

000045

011394

011394

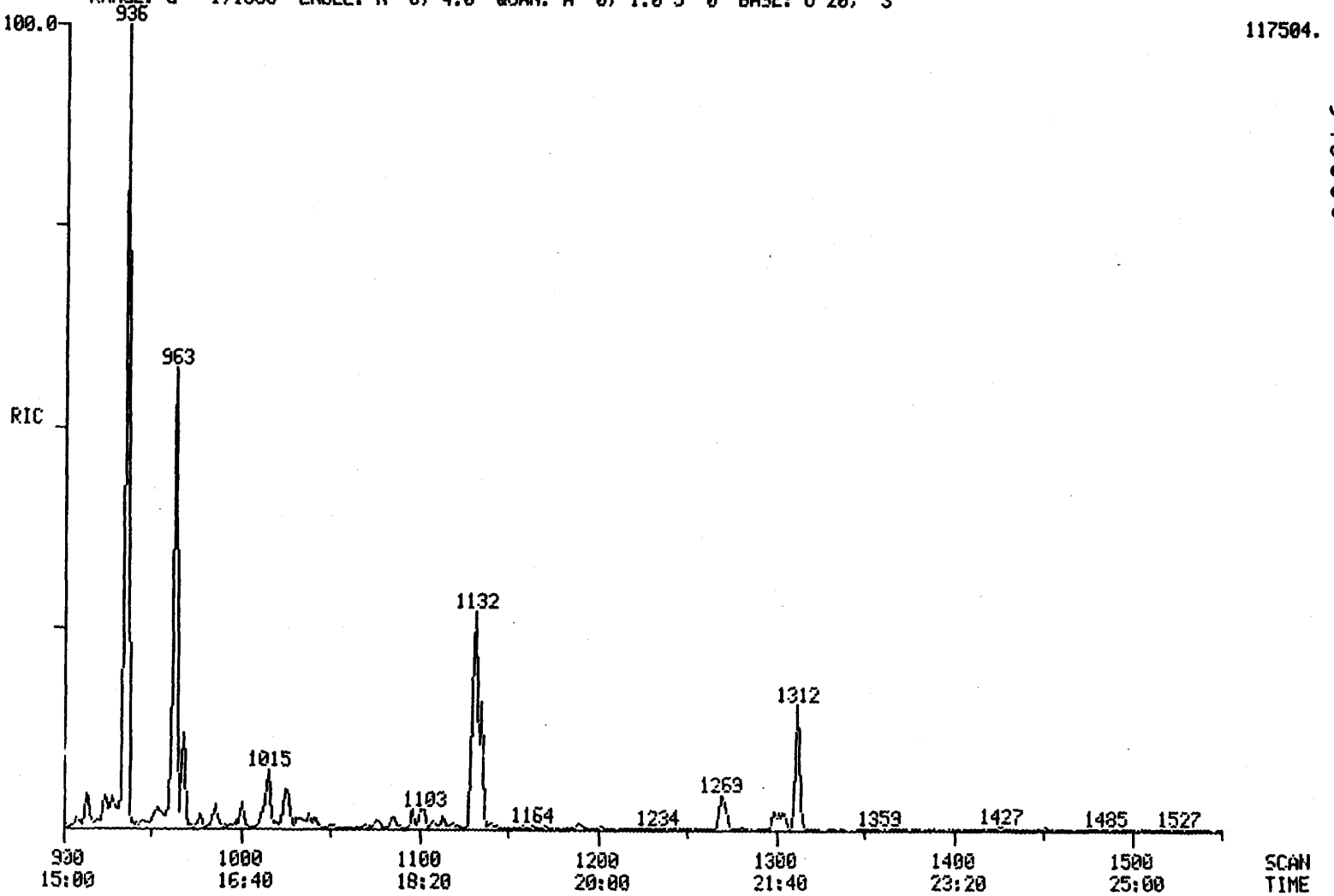
-14

CHESTER DC # ---

INST ID: 4510

RIC
04/25/93 22:10:00
SAMPLE: SC-PW9(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C10 #1 SCANS 900 TO 1550
CALI: 9U04101C10 #3



117504.

000046

011395

011395

011396

CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID.	SC-PW9(-200)SUP		
FILENAME	9U04101C10	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JZ
DATE INJECTED	04/25/93 22:10:00	VERIFIED BY	
CALIB STD DATE	04/24/93	CORR. FACTOR	6.60

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT	RRT	AREA
211	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	132 UG/KG	1.000	1184
350	CI40	NAPHTHALENE-D8 ** IS2 **		136	132 UG/KG	1.000	490E
578	CI50	ACENAPHTHENE-D10 ** IS3 **		164	132 UG/KG	1.000	298C
772	CI60	PHENANTHRENE-D10 ** IS4 **		188	132 UG/KG	1.000	477E
1132	CI70	CHRYSENE-D12 ** IS5 **		240	132 UG/KG	1.000	2785
1312	CI75	PERYLENE-D12 ** IS6 **		264	132 UG/KG	1.000	2274
649	C590	FLUORENE	32B	166	10 UG/KG	1.123	246
775	C640	PHENANTHRENE	44B	178	312 UG/KG	1.004	11160
781	C645	ANTHRACENE	3B	178	163 UG/KG	1.012	5321
936	C655	FLUORANTHENE	31B	202	422 UG/KG	1.212	13507
963	C715	PYRENE	45B	202	286 UG/KG	0.851	8350
1130	C730	BENZO(A)ANTHRACENE	5B	228	91 UG/KG	0.998	2121
1135	C740	CHRYSENE	18B	228	82 UG/KG	1.003	1655
1270	C765	BENZO(B)FLUORANTHENE	7B	252	49 UG/KG	0.968	1121
1270	C770	BENZO(K)FLUORANTHENE	9B	252	51 UG/KG	0.968	1121
1315	C775	BENZO(A)PYRENE	6B	252	6 UG/KG	1.002	98
1451	C780	INDENO(1,2,3-CD)PYRENE	37B	276	9 UG/KG	1.106	110

*SURROGATES WERE DILUTED OUT

011397

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW10(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410111
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C11

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	66	47 J
C740	CHRYSENE	66	53 J
C765	BENZO(B)FLUORANTHENE	66	26 J
C770	BENZO(K)FLUORANTHENE	66	28 J
C775	BENZO(A)PYRENE	66	8 J
C780	INDENO(1,2,3-CD)PYRENE	66 U	R
C785	DIBENZO(A,H)ANTHRACENE	66 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011398

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW10(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410111
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C11

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	66 U	R
C540	ACENAPHTHYLENE	66 U	R
C550	ACENAPHTHENE	66 U	R
C590	FLUORENE	66	8 J
C640	PHENANTHRENE	66	170
C645	ANTHRACENE	66	48 J
C655	FLUORANTHENE	66	260
C715	PYRENE	66	160
C730	BENZO(A)ANTHRACENE	66	47 J
C740	CHRYSENE	66	53 J
C765	BENZO(B)FLUORANTHENE	66	26 J
C770	BENZO(K)FLUORANTHENE	66	28 J
C775	BENZO(A)PYRENE	66	8 J
C780	INDENO(1,2,3-CD)PYRENE	66 U	R
C785	DIBENZO(A,H)ANTHRACENE	66 U	R
C790	BENZO(GHI)PERYLENE	66 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

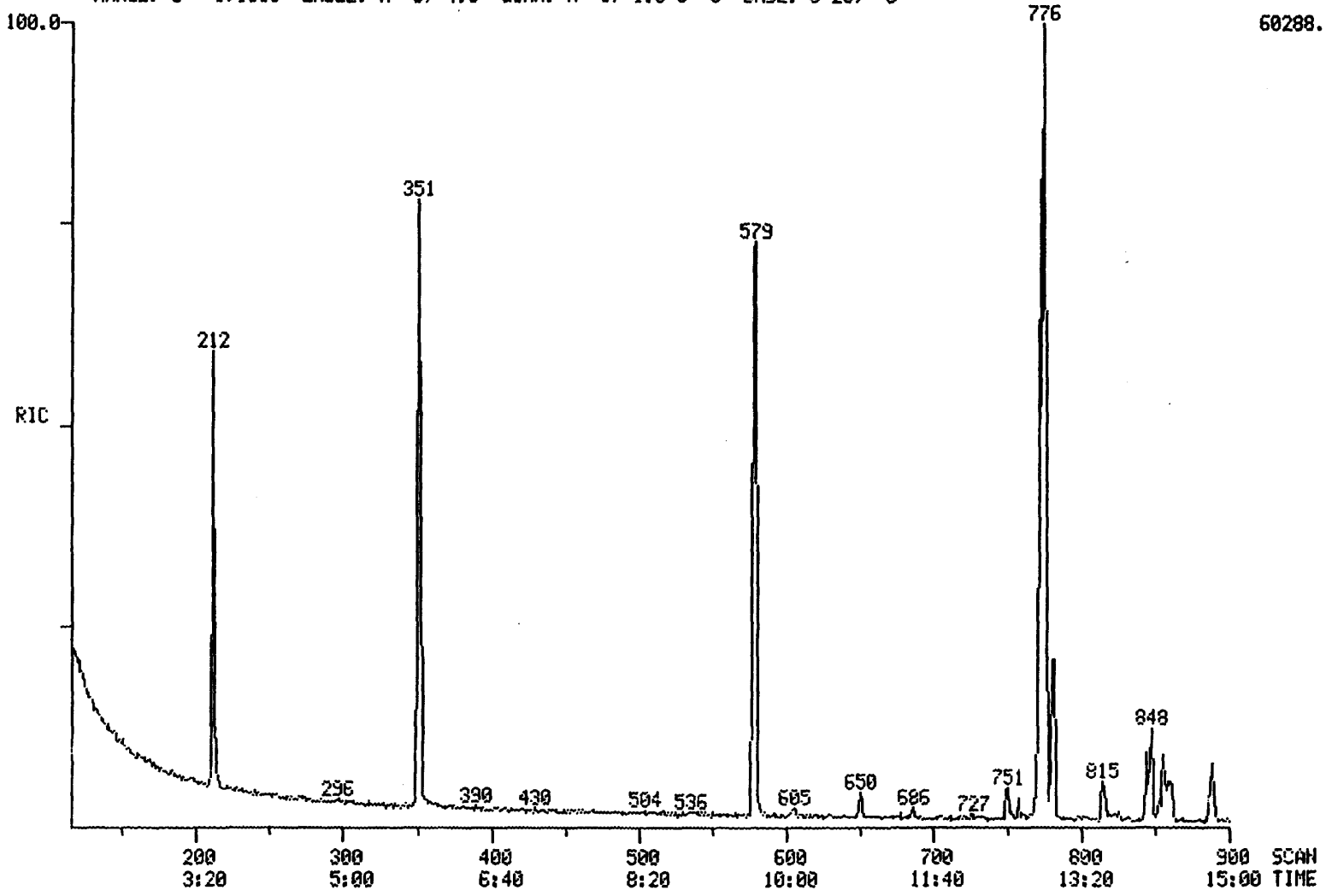
-14

RIC
04/25/93 22:47:00
SAMPLE: SC-PW10(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C11 #1 SCANS 115 TO 900
CALI: 9U04101C11 #3

CHESTER DC # ---

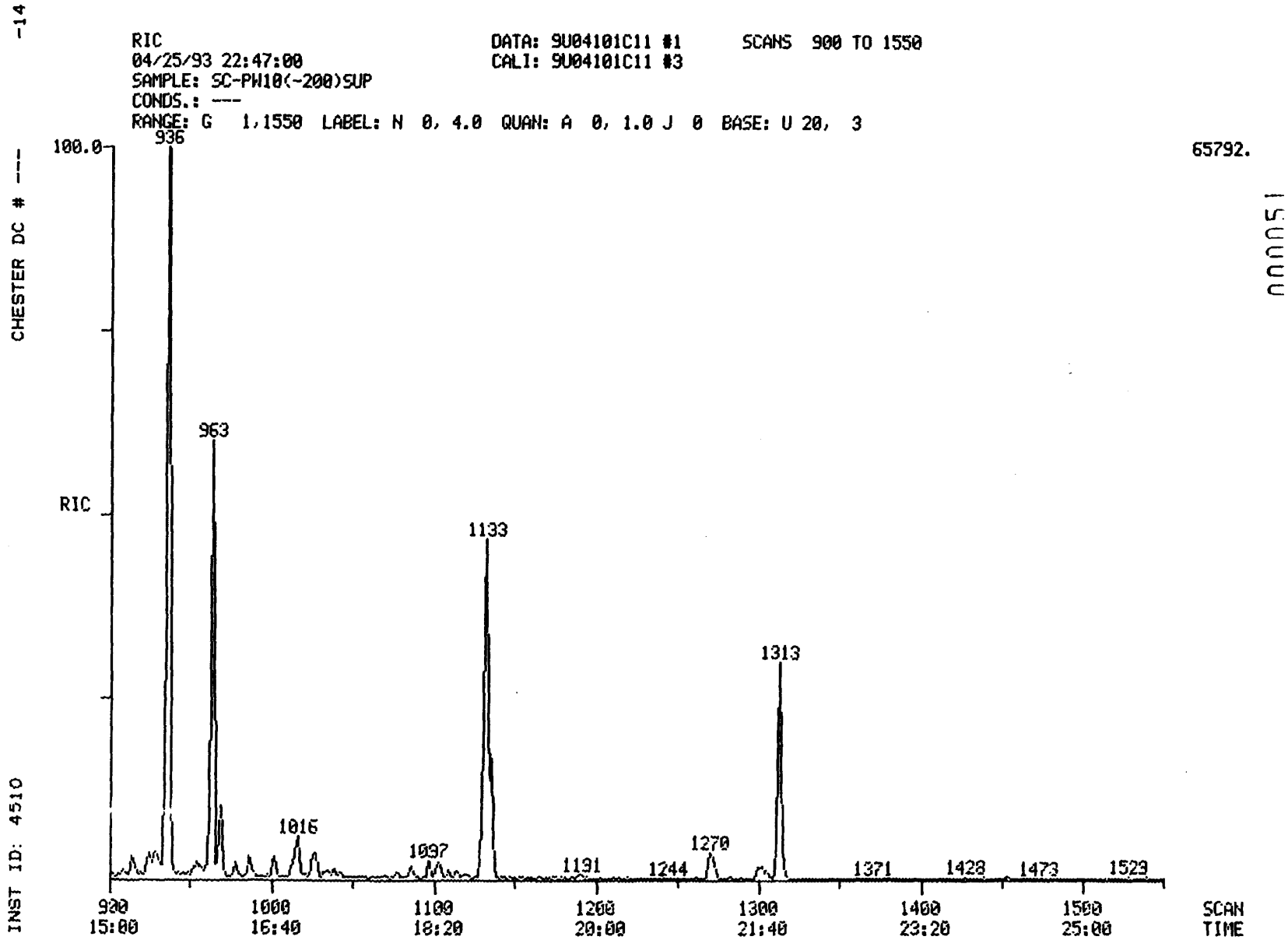
INST ID: 4510



000050

011399

011399


-14
CHESTER DC # ---
INST ID: 4510
RIC
04/25/93 22:47:00
SAMPLE: SC-PW10(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 9U04101C11 #1
CALI: 9U04101C11 #3
SCANS 900 TO 1550
100.0
RIC
65792.
936
963
1016
1097
1133
1191
1244
1270
1313
1371
1428
1473
1523
900
15:00
1000
16:40
1100
18:20
1200
20:00
1300
21:40
1400
23:20
1500
25:00
SCAN
TIME

011400

CHESTER DC # ----14

011401

SEMIVOLATILE SOIL REPORT

SAMPLE ID. SC-FW10(-200)SUF

FILENAME 9U04101C11 INST ID. 4510

CLIENT DAMES&MO ANALYST JZ

DATE INJECTED 04/25/93 22:47:00 VERIFIED BY

CALIB STD DATE 04/24/93 CORR. FACTOR 6.60

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	AREA
212	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	132	UG/KG	1.000	1186
351	CI40	NAPHTHALENE-D8 ** IS2 **		136	132	UG/KG	1.000	4757
578	CI50	ACENAPHTHENE-D10 ** IS3 **		164	132	UG/KG	1.000	2995
773	CI60	PHENANTHRENE-D10 ** IS4 **		188	132	UG/KG	1.000	4939
1133	CI70	CHRYSENE-D12 ** IS5 **		240	132	UG/KG	1.000	2863
1313	CI75	PERYLENE-D12 ** IS6 **		264	132	UG/KG	1.000	2265
650	C590	FLUORENE	32B	166	8	UG/KG	1.125	185
776	C640	PHENANTHRENE	44B	178	173	UG/KG	1.004	6406
781	C645	ANTHRACENE	3B	178	48	UG/KG	1.010	1616
936	C655	FLUORANTHENE	31B	202	260	UG/KG	1.211	8607
963	C715	PYRENE	45B	202	159	UG/KG	0.850	4753
1131	C730	BENZO(A)ANTHRACENE	5B	228	47	UG/KG	0.998	1115
1136	C740	CHRYSENE	18B	228	53	UG/KG	1.003	1106
1270	C765	BENZO(B)FLUORANTHENE	7B	252	26	UG/KG	0.967	603
1270	C770	BENZO(K)FLUORANTHENE	9B	252	28	UG/KG	0.967	603
1306	C775	BENZO(A)PYRENE	6B	252	8	UG/KG	0.995	135

SURROGATES WERE DILUTED OUT

011402

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW DUP(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410112
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C12

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	33	2 J
C740	CHRYSENE	33	2 J
C765	BENZO(B)FLUORANTHENE	33 U	
C770	BENZO(K)FLUORANTHENE	33 U	
C775	BENZO(A)PYRENE	33 U	
C780	INDENO(1,2,3-CD)PYRENE	33 U	
C785	DIBENZO(A,H)ANTHRACENE	33 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011403

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-PW DUP(-200)SUP

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410112
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9U04101C12

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	33 U	
C540	ACENAPHTHYLENE	33 U	
C550	ACENAPHTHENE	33 U	
C590	FLUORENE	33 U	
C640	PHENANTHRENE	33	13 J
C645	ANTHRACENE	33	4 J
C655	FLUORANTHENE	33	11 J
C715	PYRENE	33	6 J
C730	BENZO(A)ANTHRACENE	33	2 J
C740	CHRYSENE	33	2 J
C765	BENZO(B)FLUORANTHENE	33 U	
C770	BENZO(K)FLUORANTHENE	33 U	
C775	BENZO(A)PYRENE	33 U	
C780	INDENO(1,2,3-CD)PYRENE	33 U	
C785	DIBENZO(A,H)ANTHRACENE	33 U	
C790	BENZO(GHI)PERYLENE	33 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

-14

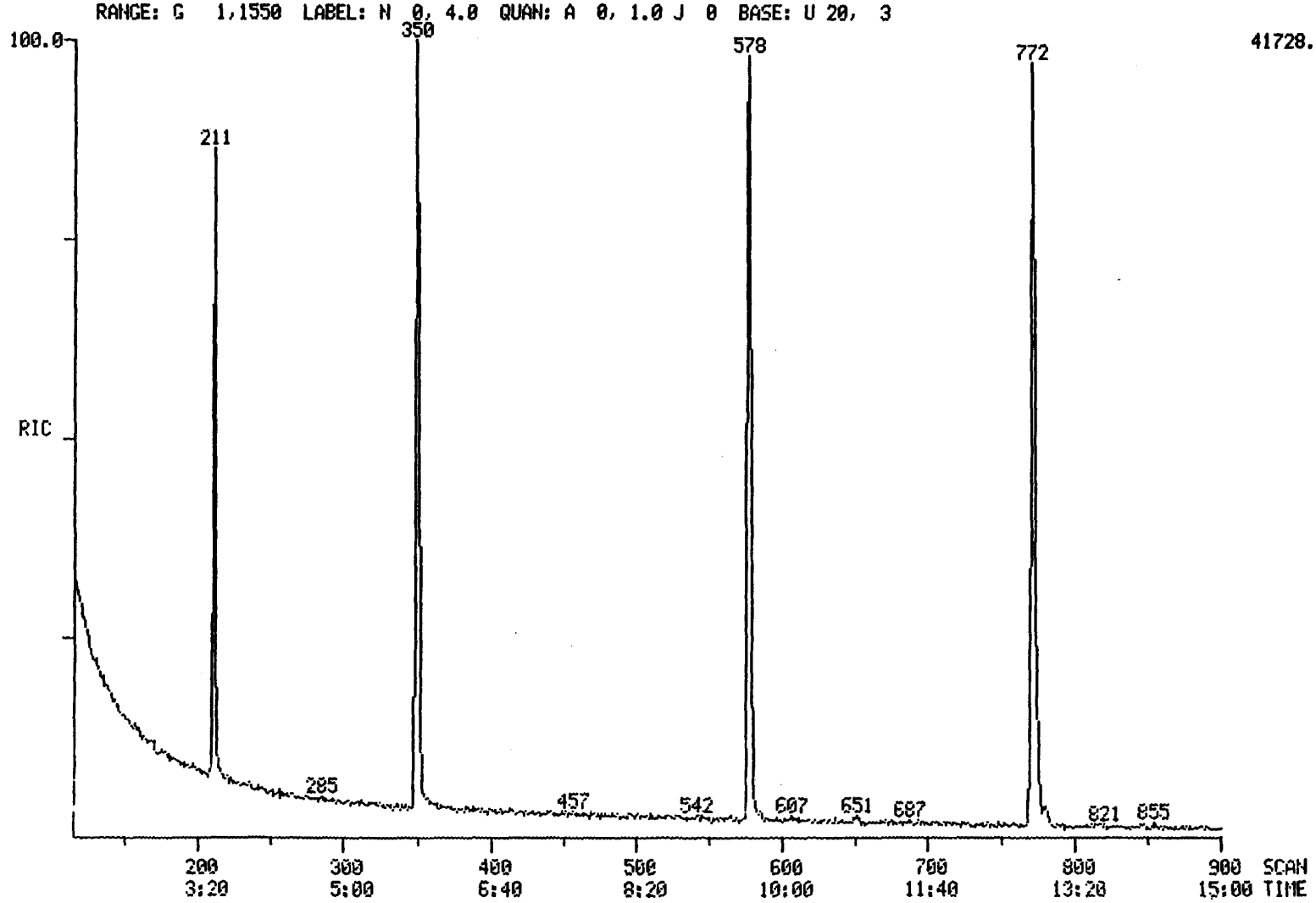
RIC
04/25/93 23:25:00
SAMPLE: SC-PW DUP(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C12 #1
CALI: 9U04101C12 #3

SCANS 115 TO 900

CHESTER DC # ---

INST ID: 4510



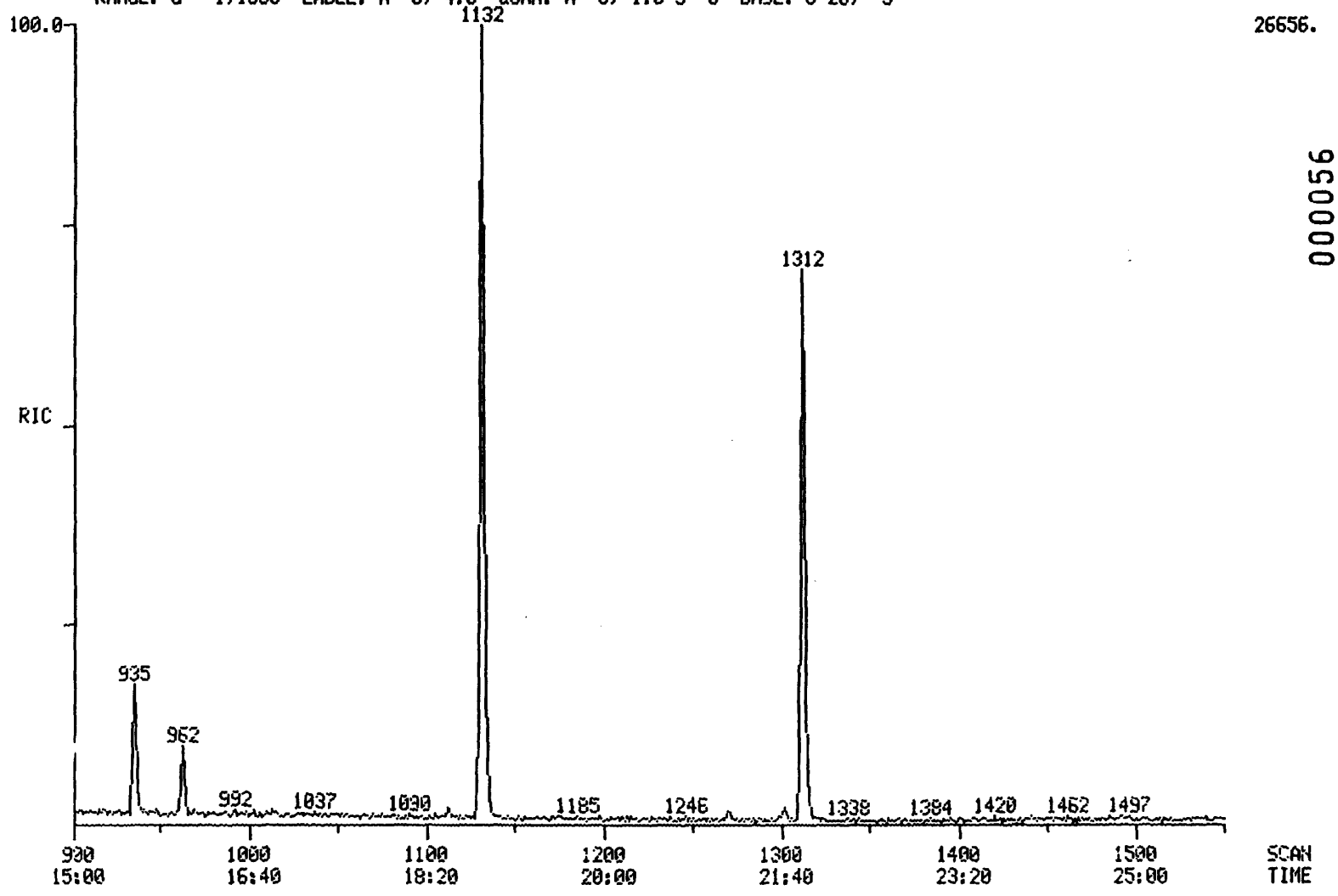
000055

011404

-14

RIC
04/25/93 23:25:00
SAMPLE: SC-PW DUP(-200)SUP
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04101C12 #1 SCANS 900 TO 1550
CALI: 9U04101C12 #3



CHESTER DC # ---

INST ID: 4510

000056

011405

011406

CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID. SC-PW DUP(-200)SUP

FILENAME 9U04101C12 INST ID. 4510

CLIENT DAMES&MO ANALYST JZ

DATE INJECTED 04/25/93 23:25:00 VERIFIED BY

CALIB STD DATE 04/24/93 CORR. FACTOR 3.30

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT	RRT	AREA
211	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	66 UG/KG	1.000	1139
350	CI40	NAPHTHALENE-D8 ** IS2 **		136	66 UG/KG	1.000	4616
578	CI50	ACENAPHTHENE-D10 ** IS3 **		164	66 UG/KG	1.000	2829
772	CI60	PHENANTHRENE-D10 ** IS4 **		188	66 UG/KG	1.000	4588
1132	CI70	CHRYSENE-D12 ** IS5 **		240	66 UG/KG	1.000	2824
1312	CI75	PERYLENE-D12 ** IS6 **		264	66 UG/KG	1.000	2253
774	C640	PHENANTHRENE	44B	178	13 UG/KG	1.003	888
781	C645	ANTHRACENE	3B	178	4 UG/KG	1.012	234
935	C655	FLUORANTHENE	31B	202	11 UG/KG	1.211	673
962	C715	PYRENE	45B	202	6 UG/KG	0.850	351
1130	C730	BENZO(A)ANTHRACENE	5B	228	2 UG/KG	0.998	85
1135	C740	CHRYSENE	18B	228	2 UG/KG	1.003	101

SURROGATES WERE DILUTED OUT

011407

CALIBRATIONS

CHESTER LABNET-HOUSTON

000058

CHESTER LABNET DC # ---17

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. --
CONTRACT LAB: CHESTER LABNET
CONTRACT NO. --
INSTRUMENT IDENTIFIER: 4530
CALIBRATION DATE: 04/17/93
STANDARD FILE: ES0424C02
DATE: 04/24/93 TIME: 15:15
MAXIMUM % D FOR CCC IS 20

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.669	1.558	-6.649
C325	BIS(2-CHLOROETHYL)ETHE	1.673	1.569	-6.233
C330	2-CHLOROPHENOL	1.393	1.315	-5.582
C335	1,3-DICHLOROBENZENE	1.481	1.413	-4.585
C340	1,4-DICHLOROBENZENE	1.561	1.526	-2.224
C345	BENZYL ALCOHOL	0.909	0.666	-26.722
C350	1,2-DICHLOROBENZENE	1.491	1.447	-2.930
C355	2-METHYLPHENOL	1.214	1.129	-7.002
C357	2,2'-OXYBIS(1-CHLOROPR	2.394	1.731	-27.696
C365	4-METHYLPHENOL	1.295	1.233	-4.730
C370	N-NITROSODIPROPYLAMINE	1.137	1.046	-7.991
C375	HEXACHLOROETHANE	0.619	0.655	5.820
C410	NITROBENZENE	0.405	0.387	-4.309
C415	ISOPHORONE	0.784	0.799	1.972
C420	2-NITROPHENOL	0.211	0.195	-7.515
C425	2,4-DIMETHYLPHENOL	0.297	0.324	9.324
C430	BENZOIC ACID	0.226	0.234	3.435
C435	BIS(2-CHLOROETHOXY)MET	0.493	0.514	4.217
C440	2,4-DICHLOROPHENOL	0.273	0.271	-0.566
C445	1,2,4-TRICHLOROBENZENE	0.296	0.291	-1.555
C450	NAPHTHALENE	1.049	0.915	-12.781
C455	4-CHLOROANILINE	0.418	0.202	-51.578
C460	HEXACHLOROBUTADIENE	0.148	0.147	-0.323
C465	P-CHLORO-M-CRESOL	0.284	0.283	-0.605
C470	2-METHYLNAPHTHALENE	0.754	0.684	-9.264
C510	HEXACHLOROCYCLOPENTADI	0.356	0.364	2.228
C515	2,4,6-TRICHLOROPHENOL	0.453	0.395	-12.627
C520	2,4,5-TRICHLOROPHENOL	0.342	0.423	23.845
C525	2-CHLORONAPHTHALENE	1.285	1.291	0.453
C530	2-NITROANILINE	0.468	0.476	1.708
C535	DIMETHYL PHTHALATE	1.522	1.599	5.051
C540	ACENAPHTHYLENE	2.030	1.745	-14.046
C545	3-NITROANILINE	0.355	0.339	-4.581
C550	ACENAPHTHENE	1.129	0.997	-11.712
C555	2,4-DINITROPHENOL	0.218	0.154	-29.180
C560	4-NITROPHENOL	0.124	0.174	39.532
C565	DIBENZOFURAN	1.706	1.598	-6.302
C570	2,4-DINITROTOLUENE	0.441	0.393	-10.849
C543	2,6-DINITROTOLUENE	0.365	0.342	-6.150
C580	DIETHYL PHTHALATE	1.556	1.588	2.026
C585	4-CHLOROPHENYL PHENYL	0.706	0.609	-13.662
C590	FLUORENE	1.322	1.082	-18.145
C595	4-NITROANILINE	0.271	0.276	2.032
C610	4,6-DINITRO-2-METHYLPH	0.168	0.150	-11.059
C615	N-NITROSODIPHENYLAMINE	0.621	0.574	-7.647
C625	4-BROMOPHENYL PHENYL E	0.222	0.213	-3.909
C630	HEXACHLOROBENZENE	0.229	0.202	-12.148
C635	PENTACHLOROPHENOL	0.152	0.125	-17.425
C640	PHENANTHRENE	1.340	0.971	-27.484

C645	ANTHRACENE	1.018	1.033	1.438
C650	DI-N-BUTYL PHTHALATE	1.590	1.789	12.542
C655	FLUORANTHENE	1.129	1.254	11.090
C715	PYRENE	1.323	1.041	-21.299
C720	BUTYL BENZYL PHTHALATE	0.790	0.808	2.253
C725	3,3'-DICHLOROBENZIDINE	0.384	0.322	-16.045
C730	BENZO(A)ANTHRACENE	1.347	1.002	-25.620
C745	BIS(2-ETHYLHEXYL)PHTHA	1.059	1.152	8.740
C740	CHRYSENE	0.944	0.969	2.636
C760	DI-N-OCTYL PHTHALATE	1.913	2.191	14.554
C765	BENZO(B)FLUORANTHENE	1.429	1.160	-18.775
C770	BENZO(K)FLUORANTHENE	1.181	1.314	11.256
C775	BENZO(A)PYRENE	1.094	0.939	-14.169
C780	INDENO(1,2,3-CD)PYRENE	1.124	0.865	-23.012
C785	DIBENZO(A,H)ANTHRACENE	0.927	0.683	-26.270
C790	BENZO(GHI)PERYLENE	0.953	0.685	-28.115
C310	N-NITROSODIMETHYLAMINE	1.067	0.960	-10.014
C620	1,2-DIPHENYL-HYDRAZINE	1.079	1.083	0.381
C320	ANILINE	2.058	0.967	-53.008
CS50	2-FLUOROPHENOL ** SU1	1.330	1.283	-3.539
CS45	PHENOL-D5 ** SU2 **	1.715	1.980	15.387
CS55	2,4,6-TRIBROMOPHENOL	0.182	0.154	-14.929
CS20	NITROBENZENE-D5 ** SU3	0.400	0.472	18.153
CS25	2-FLUOROBIPHENYL **SU4	1.328	1.509	13.662
CS30	TERPHENYL-D14 ** SU6	1.170	1.078	-7.808
CS70	2-CHLOROPHENOL-D4 ** S	1.781	1.849	3.835
CS75	1,2-DICHLOROBENZENE-D4	0.879	0.941	7.052
C647	CARBAZOLE	0.851	1.017	19.410
CC65	3+4-METHYLPHENOL			
A950	PYRIDINE	1.763	1.353	-23.234

011410

CHESTER LABNET DC # ---17

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4530

LAB ID. ES0424C02

CLIENT CHESTER ANALYST JZ

DATE INJECTED 04/24/93 15:15:00 VERFIED BY

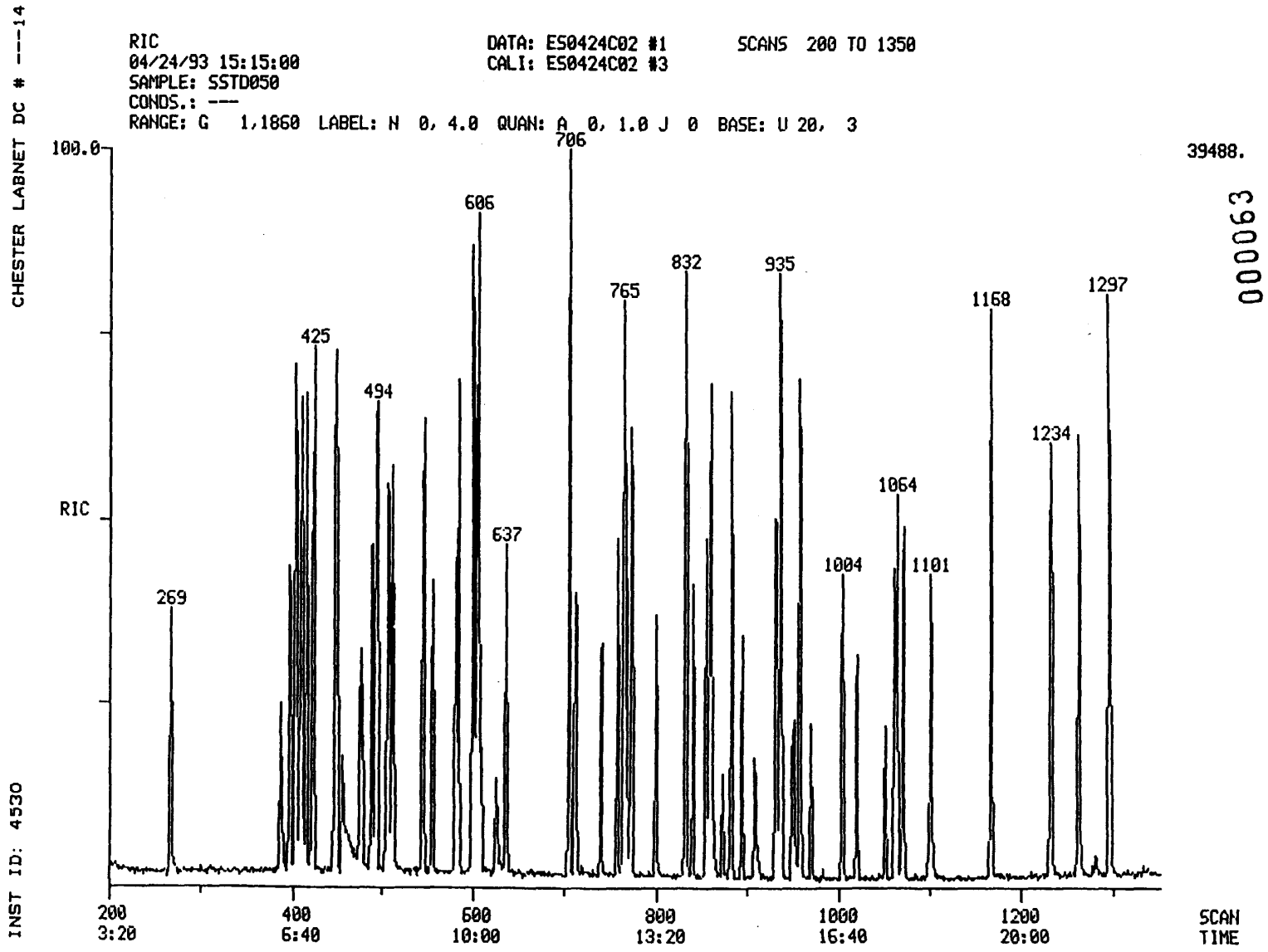
	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS1**		152	423	40	7045	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **		136	603	40	24919	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **		164	854	40	10684	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **		188	1061	40	15343	1.000	1.000
CI70	CHRYSENE-D12 ** IS5 **		240	1440	40	19945	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **		264	1632	40	16615	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **		112	268	50	11298	0.634	1.283
CS45	PHENOL-D5 ** SU2 **		99	410	50	17432	0.969	1.980
CS55	2,4,6-TRIBROMOPHENOL ** SU5 **		330	969	50	2063	1.135	0.154
CS20	NITROBENZENE-D5 ** SU3 **		82	506	50	14717	0.839	0.472
CS25	2-FLUOROBIPHENYL **SU4 **		172	765	50	20159	0.896	1.509
CS30	TERPHENYL-D14 ** SU6 **		244	1297	50	26888	0.901	1.078
C315	PHENOL	10A	94	411	50	13724	0.972	1.558
C325	BIS(2-CHLOROETHYL)ETHER	11B	93	397	50	13814	0.939	1.569
C330	2-CHLOROPHENOL	1A	128	405	50	11580	0.957	1.315
C335	1,3-DICHLOROBENZENE	21B	146	417	50	12446	0.986	1.413
C340	1,4-DICHLOROBENZENE	22B	146	425	50	13442	1.005	1.526
C345	BENZYL ALCOHOL		108	457	50	5863	1.080	0.666
C350	1,2-DICHLOROBENZENE	20B	146	450	50	12745	1.064	1.447
C355	2-METHYLPHENOL		108	488	50	9942	1.154	1.129
C357	2,2'-OXYBIS(1-CHLOROPROPANE)		45	476	50	15241	1.125	1.731
C365	4-METHYLPHENOL		108	512	50	10861	1.210	1.233
C370	N-NITROSODIPROPYLAMINE	42B	70	495	50	9215	1.170	1.046
C375	HEXACHLOROETHANE	36B	117	493	50	5767	1.165	0.655
C410	NITROBENZENE	40B	77	508	50	12070	0.842	0.387
C415	ISOPHORONE	38B	82	545	50	24900	0.904	0.799
C420	2-NITROPHENOL	6A	139	555	50	6079	0.920	0.195
C425	2,4-DIMETHYLPHENOL	3A	107	581	50	10099	0.964	0.324
C430	BENZOIC ACID		122	609	50	7274	1.010	0.234
C435	BIS(2-CHLOROETHOXY)METHANE	10B	93	584	50	16008	0.968	0.514
C440	2,4-DICHLOROPHENOL	2A	162	599	50	8453	0.993	0.271
C445	1,2,4-TRICHLOROBENZENE	46B	180	600	50	9071	0.995	0.291
C450	NAPHTHALENE	39B	128	606	50	28503	1.005	0.915
C455	4-CHLOROANILINE		127	626	50	6302	1.038	0.202
C460	HEXACHLOROBUTADIENE	34B	225	637	50	4581	1.056	0.147
C465	P-CHLORO-M-CRESOL	8A	107	712	50	8800	1.181	0.283
C470	2-METHYLNAPHTHALENE		142	706	50	21295	1.171	0.684
C510	HEXACHLOROCYCLOPENTADIENE	35B	237	740	50	4867	0.867	0.364
C515	2,4,6-TRICHLOROPHENOL	11A	196	758	50	5281	0.888	0.395
C520	2,4,5-TRICHLOROPHENOL		196	768	50	5652	0.899	0.423
C525	2-CHLORONAPHTHALENE	16B	162	773	50	17243	0.905	1.291
C530	2-NITROANILINE		65	800	50	6353	0.937	0.476
C535	DIMETHYL PHTHALATE	25B	163	833	50	21355	0.975	1.599
C540	ACENAPHTHYLENE	2B	152	832	50	23299	0.974	1.745
C545	3-NITROANILINE		138	861	50	4526	1.008	0.339
C550	ACENAPHTHENE	1B	153	859	50	13310	1.006	0.997

CHESTER LABNET DC # ---17

SV STANDARD REPORT PAGE 2

DATAFILE ES0424C02

	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	5A	184	872	50	2057	1.021	0.154
C560	4-NITROPHENOL	7A	109	908	50	2318	1.063	0.174
C565	DIBENZOFURAN		168	882	50	21344	1.033	1.598
C570	2,4-DINITROTOLUENE	27B	165	894	50	5249	1.047	0.393
C543	2,6-DINITROTOLUENE	28B	165	840	50	4573	0.984	0.342
C580	DIETHYL PHTHALATE	24B	149	935	50	21202	1.095	1.588
C585	4-CHLOROPHENYL PHENYL ETHER	17B	204	936	50	8138	1.096	0.609
C590	FLUORENE	32B	166	930	50	14455	1.089	1.082
C595	4-NITROANILINE		138	948	50	3689	1.110	0.276
C610	4,6-DINITRO-2-METHYLPHENOL	4A	198	951	50	2868	0.896	0.150
C615	N-NITROSODIPHENYLAMINE	43B	169	956	50	11004	0.901	0.574
C625	4-BROMOPHENYL PHENYL ETHER	14B	248	1004	50	4091	0.946	0.213
C630	HEXACHLOROBENZENE	33B	284	1019	50	3865	0.960	0.202
C635	PENTACHLOROPHENOL	9A	266	1051	50	2401	0.991	0.125
C640	PHENANTHRENE	44B	178	1064	50	18627	1.003	0.971
C645	ANTHRACENE	3B	178	1071	50	19804	1.009	1.033
C650	DI-N-BUTYL PHTHALATE	26B	149	1168	50	34315	1.101	1.789
C655	FLUORANTHENE	31B	202	1234	50	24051	1.163	1.254
C715	PYRENE	45B	202	1264	50	25960	0.878	1.041
C720	BUTYL BENZYL PHTHALATE	15B	149	1379	50	20139	0.958	0.808
C725	3,3'-DICHLOROBENZIDINE	23B	252	1444	50	8040	1.003	0.322
C730	BENZO(A)ANTHRACENE	5B	228	1438	50	24973	0.999	1.002
C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B	149	1470	50	28721	1.021	1.152
C740	CHRYSENE	18B	228	1444	50	24149	1.003	0.969
C760	DI-N-OCTYL PHTHALATE	29B	149	1555	50	45513	0.953	2.191
C765	BENZO(B)FLUORANTHENE	7B	252	1586	50	24102	0.972	1.160
C770	BENZO(K)FLUORANTHENE	9B	252	1589	50	27290	0.974	1.314
C775	BENZO(A)PYRENE	6B	252	1625	50	19492	0.996	0.939
C780	INDENO(1,2,3-CD)PYRENE	37B	276	1774	50	17964	1.087	0.865
C785	DIBENZO(A,H)ANTHRACENE	19B	278	1779	50	14195	1.090	0.683
C790	BENZO(GHI)PERYLENE	8B	276	1814	50	14232	1.112	0.685
C310	N-NITROSODIMETHYLAMINE	41B	74	121	50	8454	0.286	0.960
C710	BENZIDINE	4B	184	1046	50	181	0.726	0.007
CS70	2-CHLOROPHENOL-D4 ** SU7 **		132	403	50	16284	0.953	1.849
CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **		152	448	50	8283	1.059	0.941
C647	CARBAZOLE		167	1101	50	19497	1.038	1.017
C320	ANILINE		93	388	50	8513	0.917	0.967
A950	PYRIDINE		79	123	50	11916	0.291	1.353
C620	1,2-DIPHENYL-HYDRAZINE	30B	77	958	50	20780	0.903	1.083



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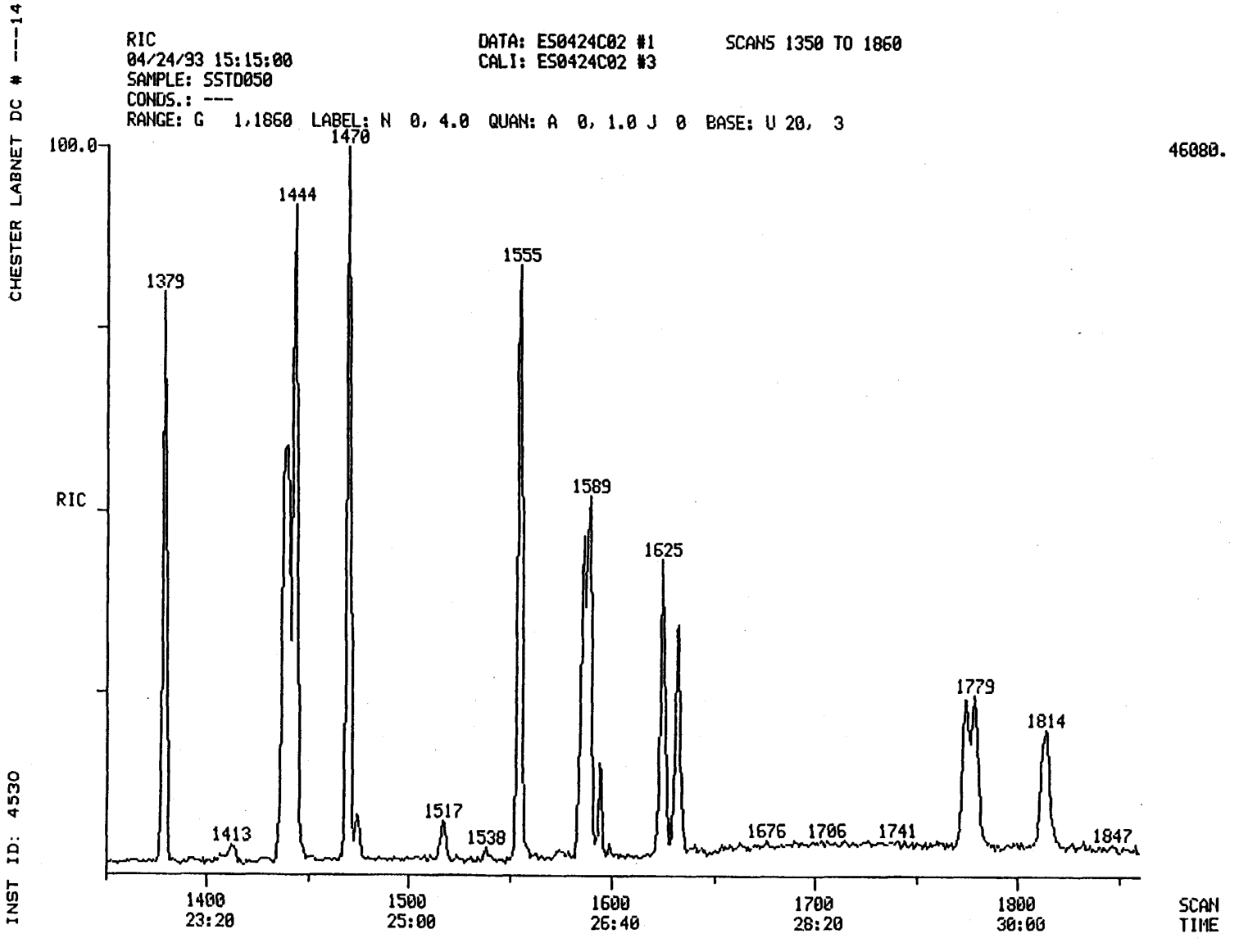

011413

011413

011414

Quantitation Report File: ES0424C02

Data: ES0424C02.TI
04/24/93 15:15:00
Sample: SSTD050
Conds.: ---
Formula: 04/17/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: JZ Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1**	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL **SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

011415

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	423	7:03	1	1.000	A BB	7045.	40.000 UG/L	0.95
2	136	603	10:03	2	1.000	A BB	24919.	40.000 UG/L	0.95
3	164	854	14:14	3	1.000	A BB	10684.	40.000 UG/L	0.95
4	188	1061	17:41	4	1.000	A BV	15343.	40.000 UG/L	0.95
5	240	1440	24:00	5	1.000	A BB	19945.	40.000 UG/L	0.95
6	264	1632	27:12	6	1.000	A BB	16615.	40.000 UG/L	0.95
7	112	268	4:28	1	0.634	A BB	11298.	50.000 UG/L	1.19
8	99	410	6:50	1	0.969	A BB	17432.	50.000 UG/L	1.19
9	330	969	16:09	3	1.135	A BB	2063.	50.000 UG/L	1.19
10	82	506	8:26	2	0.839	A BB	14717.	50.000 UG/L	1.19
11	172	765	12:45	3	0.896	A BB	20159.	50.000 UG/L	1.19
12	244	1297	21:37	5	0.901	A BB	26888.	50.000 UG/L	1.19
13	94	411	6:51	1	0.972	A BB	13724.	50.000 UG/L	1.19
14	93	397	6:37	1	0.939	A BV	13814.	50.000 UG/L	1.19
15	128	405	6:45	1	0.957	A BB	11580.	50.000 UG/L	1.19
16	146	417	6:57	1	0.986	A BB	12446.	50.000 UG/L	1.19
17	146	425	7:05	1	1.005	A BB	13442.	50.000 UG/L	1.19
18	108	457	7:37	1	1.080	A BB	5863.	50.000 UG/L	1.19
19	146	450	7:30	1	1.064	A BB	12745.	50.000 UG/L	1.19
20	108	488	8:08	1	1.154	M XX	9942.	50.000 UG/L	1.19
21	45	476	7:56	1	1.125	M XX	15241.	50.000 UG/L	1.19
22	108	512	8:32	1	1.210	A BV	10861.	50.000 UG/L	1.19
23	70	495	8:15	1	1.170	A BB	9215.	50.000 UG/L	1.19
24	117	493	8:13	1	1.165	A BB	5767.	50.000 UG/L	1.19
25	77	508	8:28	2	0.842	M XX	12070.	50.000 UG/L	1.19
26	82	545	9:05	2	0.904	A BB	24900.	50.000 UG/L	1.19
27	139	555	9:15	2	0.920	A BB	6079.	50.000 UG/L	1.19
28	107	581	9:41	2	0.964	A BB	10099.	50.000 UG/L	1.19
29	122	609	10:09	2	1.010	A BB	7274.	50.000 UG/L	1.19
30	93	584	9:44	2	0.968	A BB	16008.	50.000 UG/L	1.19
31	162	599	9:59	2	0.993	A BB	8453.	50.000 UG/L	1.19
32	180	600	10:00	2	0.995	A BB	9071.	50.000 UG/L	1.19
33	128	606	10:06	2	1.005	A BB	28503.	50.000 UG/L	1.19
34	127	626	10:26	2	1.038	A BB	6302.	50.000 UG/L	1.19
35	225	637	10:37	2	1.056	A BB	4581.	50.000 UG/L	1.19
36	107	712	11:52	2	1.181	A BB	8800.	50.000 UG/L	1.19
37	142	706	11:46	2	1.171	A BV	21295.	50.000 UG/L	1.19
38	237	740	12:20	3	0.867	A BB	4867.	50.000 UG/L	1.19
39	196	758	12:38	3	0.888	A BB	5281.	50.000 UG/L	1.19
40	196	768	12:48	3	0.899	A BB	5652.	50.000 UG/L	1.19
41	162	773	12:53	3	0.905	A BB	17243.	50.000 UG/L	1.19
42	65	800	13:20	3	0.937	A BB	6353.	50.000 UG/L	1.19
43	163	833	13:53	3	0.975	A BB	21355.	50.000 UG/L	1.19
44	152	832	13:52	3	0.974	A BB	23299.	50.000 UG/L	1.19
45	138	861	14:21	3	1.008	A BB	4526.	50.000 UG/L	1.19
46	153	859	14:19	3	1.006	A BB	13310.	50.000 UG/L	1.19
47	184	872	14:32	3	1.021	A BB	2057.	50.000 UG/L	1.19
48	109	908	15:08	3	1.063	A BB	2318.	50.000 UG/L	1.19
49	168	882	14:42	3	1.033	A BB	21344.	50.000 UG/L	1.19
50	165	894	14:54	3	1.047	A BB	5249.	50.000 UG/L	1.19

011416

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:03	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:03	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:14	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	24:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:12	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:28	1.00	0.634	1.00	50.00	50.00	1.283	1.283	1.00
8	6:50	1.00	0.969	1.00	50.00	50.00	1.980	1.980	1.00
9	16:09	1.00	1.135	1.00	50.00	50.00	0.154	0.154	1.00
10	8:26	1.00	0.839	1.00	50.00	50.00	0.472	0.472	1.00
11	12:45	1.00	0.896	1.00	50.00	50.00	1.509	1.509	1.00
12	21:37	1.00	0.901	1.00	50.00	50.00	1.078	1.078	1.00
13	6:51	1.00	0.972	1.00	50.00	50.00	1.558	1.558	1.00
14	6:37	1.00	0.939	1.00	50.00	50.00	1.569	1.569	1.00
15	6:45	1.00	0.957	1.00	50.00	50.00	1.315	1.315	1.00
16	6:57	1.00	0.986	1.00	50.00	50.00	1.413	1.413	1.00
17	7:05	1.00	1.005	1.00	50.00	50.00	1.526	1.526	1.00
18	7:37	1.00	1.080	1.00	50.00	50.00	0.666	0.666	1.00
19	7:30	1.00	1.064	1.00	50.00	50.00	1.447	1.447	1.00
20	8:08	1.00	1.154	1.00	50.00	50.00	1.129	1.129	1.00
21	7:56	1.00	1.125	1.00	50.00	50.00	1.731	1.731	1.00
22	8:32	1.00	1.210	1.00	50.00	50.00	1.233	1.233	1.00
23	8:15	1.00	1.170	1.00	50.00	50.00	1.046	1.046	1.00
24	8:13	1.00	1.165	1.00	50.00	50.00	0.655	0.655	1.00
25	8:28	1.00	0.842	1.00	50.00	50.00	0.387	0.387	1.00
26	9:05	1.00	0.904	1.00	50.00	50.00	0.799	0.799	1.00
27	9:15	1.00	0.920	1.00	50.00	50.00	0.195	0.195	1.00
28	9:41	1.00	0.964	1.00	50.00	50.00	0.324	0.324	1.00
29	10:09	1.00	1.010	1.00	50.00	50.00	0.234	0.234	1.00
30	9:44	1.00	0.968	1.00	50.00	50.00	0.514	0.514	1.00
31	9:59	1.00	0.993	1.00	50.00	50.00	0.271	0.271	1.00
32	10:00	1.00	0.995	1.00	50.00	50.00	0.291	0.291	1.00
33	10:06	1.00	1.005	1.00	50.00	50.00	0.915	0.915	1.00
34	10:26	1.00	1.038	1.00	50.00	50.00	0.202	0.202	1.00
35	10:37	1.00	1.056	1.00	50.00	50.00	0.147	0.147	1.00
36	11:52	1.00	1.181	1.00	50.00	50.00	0.283	0.283	1.00
37	11:46	1.00	1.171	1.00	50.00	50.00	0.684	0.684	1.00
38	12:20	1.00	0.867	1.00	50.00	50.00	0.364	0.364	1.00
39	12:38	1.00	0.888	1.00	50.00	50.00	0.395	0.395	1.00
40	12:48	1.00	0.899	1.00	50.00	50.00	0.423	0.423	1.00
41	12:53	1.00	0.905	1.00	50.00	50.00	1.291	1.291	1.00
42	13:20	1.00	0.937	1.00	50.00	50.00	0.476	0.476	1.00
43	13:53	1.00	0.975	1.00	50.00	50.00	1.599	1.599	1.00
44	13:52	1.00	0.974	1.00	50.00	50.00	1.745	1.745	1.00
45	14:21	1.00	1.008	1.00	50.00	50.00	0.339	0.339	1.00
46	14:19	1.00	1.006	1.00	50.00	50.00	0.997	0.997	1.00
47	14:32	1.00	1.021	1.00	50.00	50.00	0.154	0.154	1.00
48	15:08	1.00	1.063	1.00	50.00	50.00	0.174	0.174	1.00
49	14:42	1.00	1.033	1.00	50.00	50.00	1.598	1.598	1.00
50	14:54	1.00	1.047	1.00	50.00	50.00	0.393	0.393	1.00

011416

011417

Quantitation Report File: ES0424C02

Data: ES0424C02.TI
04/24/93 15:15:00
Sample: SSTD050
Conds.: ---
Formula: 04/17/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: JZ Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	CS70	2-CHLOROPHENOL-D4 ** SU7 **	
81	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	
83	C320	ANILINE	
84	A950	PYRIDINE	
85	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	840	14:00	3	0.984	A BB	4573.	50.000 UG/L	1.19
52	149	935	15:35	3	1.095	A BB	21202.	50.000 UG/L	1.19
53	204	936	15:36	3	1.096	A BB	8138.	50.000 UG/L	1.19
54	166	930	15:30	3	1.089	A BB	14455.	50.000 UG/L	1.19
55	138	948	15:48	3	1.110	A BB	3689.	50.000 UG/L	1.19
56	198	951	15:51	4	0.896	A BB	2868.	50.000 UG/L	1.19
57	169	956	15:56	4	0.901	A BB	11004.	50.000 UG/L	1.19
58	248	1004	16:44	4	0.946	A BB	4091.	50.000 UG/L	1.19

011418

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
59	284	1019	16:59	4	0.960	A BB	3865.	50.000	UG/L	1.19
60	266	1051	17:31	4	0.991	A BB	2401.	50.000	UG/L	1.19
61	178	1064	17:44	4	1.003	A BV	18627.	50.000	UG/L	1.19
62	178	1071	17:51	4	1.009	A VB	19804.	50.000	UG/L	1.19
63	149	1168	19:28	4	1.101	A BB	34315.	50.000	UG/L	1.19
64	202	1234	20:34	4	1.163	A BB	24051.	50.000	UG/L	1.19
65	202	1264	21:04	5	0.878	A BB	25960.	50.000	UG/L	1.19
66	149	1379	22:59	5	0.958	A BB	20139.	50.000	UG/L	1.19
67	252	1444	24:04	5	1.003	A BB	8040.	50.000	UG/L	1.19
68	228	1438	23:58	5	0.999	A BV	24973.	50.000	UG/L	1.19
69	149	1470	24:30	5	1.021	A BB	28721.	50.000	UG/L	1.19
70	228	1444	24:04	5	1.003	A VB	24149.	50.000	UG/L	1.19
71	149	1555	25:55	6	0.953	A BV	45513.	50.000	UG/L	1.19
72	252	1586	26:26	6	0.972	M XX	24102.	50.000	UG/L	1.19
73	252	1589	26:29	6	0.974	M XX	27290.	50.000	UG/L	1.19
74	252	1625	27:05	6	0.996	A BB	19492.	50.000	UG/L	1.19
75	276	1774	29:34	6	1.087	A EB	17964.	50.000	UG/L	1.19
76	278	1779	29:39	6	1.090	A BB	14195.	50.000	UG/L	1.19
77	276	1814	30:14	6	1.112	A BB	14232.	50.000	UG/L	1.19
78	74	121	2:01	1	0.286	A BV	8454.	50.000	UG/L	1.19
79	184	1046	17:26	5	0.726	M XX	181.	50.000	UG/L	1.19
80	132	403	6:43	1	0.953	A BB	16284.	50.000	UG/L	1.19
81	152	448	7:28	1	1.059	A BB	8283.	50.000	UG/L	1.19
82	167	1101	18:21	4	1.038	A BV	19497.	50.000	UG/L	1.19
83	93	388	6:28	1	0.917	M XX	8513.	50.000	UG/L	1.19
84	79	123	2:03	1	0.291	M XX	11916.	50.000	UG/L	1.19
85	77	958	15:58	4	0.903	M XX	20780.	50.000	UG/L	1.19

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	14:00	1.00	0.984	1.00	50.00	50.00	0.342	0.342	1.00
52	15:35	1.00	1.095	1.00	50.00	50.00	1.588	1.588	1.00
53	15:36	1.00	1.096	1.00	50.00	50.00	0.609	0.609	1.00
54	15:30	1.00	1.089	1.00	50.00	50.00	1.082	1.082	1.00
55	15:48	1.00	1.110	1.00	50.00	50.00	0.276	0.276	1.00
56	15:51	1.00	0.896	1.00	50.00	50.00	0.150	0.150	1.00
57	15:56	1.00	0.901	1.00	50.00	50.00	0.574	0.574	1.00
58	16:44	1.00	0.946	1.00	50.00	50.00	0.213	0.213	1.00
59	16:59	1.00	0.960	1.00	50.00	50.00	0.202	0.202	1.00
60	17:31	1.00	0.991	1.00	50.00	50.00	0.125	0.125	1.00
61	17:44	1.00	1.003	1.00	50.00	50.00	0.971	0.971	1.00
62	17:51	1.00	1.009	1.00	50.00	50.00	1.033	1.033	1.00
63	19:28	1.00	1.101	1.00	50.00	50.00	1.789	1.789	1.00
64	20:34	1.00	1.163	1.00	50.00	50.00	1.254	1.254	1.00
65	21:04	1.00	0.878	1.00	50.00	50.00	1.041	1.041	1.00
66	22:59	1.00	0.958	1.00	50.00	50.00	0.808	0.808	1.00
67	24:04	1.00	1.003	1.00	50.00	50.00	0.322	0.322	1.00
68	23:58	1.00	0.999	1.00	50.00	50.00	1.002	1.002	1.00
69	24:30	1.00	1.021	1.00	50.00	50.00	1.152	1.152	1.00
70	24:04	1.00	1.003	1.00	50.00	50.00	0.969	0.969	1.00
71	25:55	1.00	0.953	1.00	50.00	50.00	2.191	2.191	1.00
72	26:26	1.00	0.972	1.00	50.00	50.00	1.160	1.160	1.00
73	26:29	1.00	0.974	1.00	50.00	50.00	1.314	1.314	1.00
74	27:05	1.00	0.996	1.00	50.00	50.00	0.939	0.939	1.00
75	29:34	1.00	1.087	1.00	50.00	50.00	0.865	0.865	1.00
76	29:39	1.00	1.090	1.00	50.00	50.00	0.683	0.683	1.00
77	30:14	1.00	1.112	1.00	50.00	50.00	0.685	0.685	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	2:01	1.00	0.286	1.00	50.00	50.00	0.960	0.960	1.00
79	17:26	1.00	0.726	1.00	50.00	50.00	0.007	0.007	1.00
80	6:43	1.00	0.953	1.00	50.00	50.00	1.849	1.849	1.00
81	7:28	1.00	1.059	1.00	50.00	50.00	0.941	0.941	1.00
82	18:21	1.00	1.038	1.00	50.00	50.00	1.017	1.017	1.00
83	6:28	1.00	0.917	1.00	50.00	50.00	0.967	0.967	1.00
84	2:03	1.00	0.291	1.00	50.00	50.00	1.353	1.353	1.00
85	15:58	1.00	0.903	1.00	50.00	50.00	1.083	1.083	1.00

011420

INITIAL CALIBRATION DATA - SEMIVOLATILE HSL COMPOUNDS

CASE NO. --
CONTRACT NO. --
CONTRACT LAB: CHESTER LABNET
INSTRUMENT IDENTIFIER: 4530
CALIBRATION DATE: 04/25/93
MINIMUM MEAN RF FOR SPCC IS 0.05
MAXIMUM %RSD FOR CCC IS 30%

	COMPOUND	RF 20NG	RF 50NG	RF 80NG	RF 120NG	RF 160NG	MEAN RF	%RSD
C315	PHENOL	1.572	1.548	1.632	1.838	1.781	1.674	7.698
C325	BIS(2-CHLOROETHYL)ETHE	1.865	1.775	1.660	1.776	1.565	1.728	6.745
C330	2-CHLOROPHENOL	1.437	1.393	1.401	1.637	1.652	1.504	8.594
C335	1,3-DICHLOROBENZENE	1.348	1.366	1.531	1.758	1.617	1.524	11.335
C340	1,4-DICHLOROBENZENE	1.424	1.546	1.638	1.811	1.702	1.624	9.092
C345	BENZYL ALCOHOL	0.448	0.798	0.807	0.658	0.464	0.635	27.395
C350	1,2-DICHLOROBENZENE	1.338	1.417	1.562	1.702	1.639	1.532	9.889
C355	2-METHYLPHENOL	1.127	1.059	1.179	1.398	1.334	1.219	11.650
C357	2,2'-OXYBIS(1-CHLOROPR	1.121	1.056	0.997	1.090	1.076	1.068	4.314
C365	4-METHYLPHENOL	1.092	1.126	1.312	1.378	1.353	1.252	10.631
C370	N-NITROSODIPROPYLAMINE	1.110	1.057	1.047	1.161	1.375	1.150	11.623
C375	HEXACHLOROETHANE	0.696	0.688	0.852	0.908	0.874	0.804	12.914
C410	NITROBENZENE	0.462	0.405	0.488	0.640	0.523	0.504	17.369
C415	ISOPHORONE	0.803	0.789	0.870	0.863	0.869	0.839	4.701
C420	2-NITROPHENOL	0.200	0.174	0.198	0.215	0.209	0.199	7.973
C425	2,4-DIMETHYLPHENOL	0.329	0.357	0.368	0.404	0.395	0.371	8.083
C430	BENZOIC ACID	0.184	0.195	0.209	0.184	0.161	0.187	9.285
C435	BIS(2-CHLOROETHOXY)MET	0.578	0.484	0.474	0.512	0.505	0.511	7.990
C440	2,4-DICHLOROPHENOL	0.299	0.247	0.267	0.301	0.295	0.282	8.351
C445	1,2,4-TRICHLOROBENZENE	0.289	0.281	0.291	0.308	0.316	0.297	4.936
C450	NAPHTHALENE	1.031	0.896	1.033	1.081	1.021	1.012	6.812
C455	4-CHLOROANILINE	0.139	0.238	0.410	0.432	0.407	0.325	39.859
C460	HEXACHLOROBUTADIENE	0.204	0.191	0.210	0.220	0.227	0.210	6.637
C465	P-CHLORO-M-CRESOL	0.353	0.370	0.386	0.392	0.383	0.377	4.170
C470	2-METHYLNAPHTHALENE	0.733	0.778	0.863	0.850	0.840	0.813	6.815
C510	HEXACHLOROCYCLOPENTADI	0.309	0.397	0.437	0.439	0.488	0.414	16.159
C515	2,4,6-TRICHLOROPHENOL	0.394	0.407	0.373	0.368	0.367	0.382	4.661
C520	2,4,5-TRICHLOROPHENOL	0.409	0.426	0.454	0.404	0.418	0.422	4.665
C525	2-CHLORONAPHTHALENE	1.360	1.339	1.374	1.340	1.417	1.366	2.327
C530	2-NITROANILINE	0.430	0.478	0.589	0.496	0.493	0.497	11.577
C535	DIMETHYL PHTHALATE	2.175	1.833	1.770	1.661	1.737	1.835	10.889
C540	ACENAPHTHYLENE	2.224	1.890	2.163	2.070	2.085	2.086	6.043
C545	3-NITROANILINE	0.328	0.368	0.420	0.388	0.387	0.378	8.933
C550	ACENAPHTHENE	1.354	1.138	1.345	1.263	1.323	1.285	6.966
C555	2,4-DINITROPHENOL	0.116	0.126	0.179	0.210	0.220	0.170	27.908
C560	4-NITROPHENOL	0.325	0.269	0.338	0.305	0.294	0.306	8.819
C565	DIBENZOFURAN	1.745	1.757	1.877	1.852	1.874	1.821	3.560
C570	2,4-DINITROTOLUENE	0.450	0.500	0.529	0.499	0.515	0.499	5.939
C543	2,6-DINITROTOLUENE	0.385	0.403	0.412	0.372	0.405	0.395	4.155
C580	DIETHYL PHTHALATE	2.415	2.039	2.051	1.939	2.035	2.096	8.776
C585	4-CHLOROPHENYL PHENYL	0.816	0.652	0.665	0.667	0.728	0.706	9.707
C590	FLUORENE	1.455	1.237	1.393	1.364	1.411	1.372	5.980
C595	4-NITROANILINE	0.302	0.276	0.356	0.324	0.310	0.314	9.482
C610	4,6-DINITRO-2-METHYLPH	0.133	0.121	0.149	0.187	0.197	0.157	21.134
C615	N-NITROSODIPHENYLAMINE	0.828	0.635	0.664	0.688	0.750	0.713	10.811
C625	4-BROMOPHENYL PHENYL E	0.286	0.257	0.234	0.241	0.254	0.254	7.811
C630	HEXACHLOROBENZENE	0.257	0.232	0.256	0.246	0.279	0.254	6.782
C635	PENTACHLOROPHENOL	0.085	0.110	0.112	0.130	0.135	0.115 (0.122)	17.168
C640	PHENANTHRENE	1.142	0.981	1.240	1.432	1.466	1.252	16.174
C645	ANTHRACENE	1.154	1.021	1.074	0.959	0.972	1.036	7.698
C650	DI-N-BUTYL PHTHALATE	2.158	1.812	1.842	1.794	1.824	1.886	8.098
C655	FLUORANTHENE	0.902	0.824	0.983	1.004	0.996	0.942	8.204

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C715	PYRENE	1.378	1.162	1.497	1.543	1.930	1.502	18.684
C720	BUTYL BENZYL PHTHALATE	1.082	1.015	1.126	1.125	1.403	1.150	12.910
C725	3,3'-DICHLOROBENZIDINE	0.463	0.405	0.439	0.421	0.536	0.453	11.347
C730	BENZO(A)ANTHRACENE	1.266	1.052	1.344	1.450	1.908	1.404	22.584
C745	BIS(2-ETHYLHEXYL)PHTHA	1.635	1.451	1.514	1.578	1.972	1.630	12.471
C740	CHRYSENE	1.150	1.017	1.145	1.029	1.267	1.121	9.150
C760	DI-N-OCTYL PHTHALATE	2.282	2.159	2.253	2.048	1.949	2.138	6.544
C765	BENZO(B)FLUORANTHENE	1.044	0.970	1.424	1.641	1.808	1.377	26.504
C770	BENZO(K)FLUORANTHENE	1.385	1.272	1.137	0.986	0.876	1.131	18.241
C775	BENZO(A)PYRENE	1.168	1.005	1.139	1.197	1.148	1.131	6.548
C780	INDENO(1,2,3-CD)PYRENE	1.306	1.180	1.203	1.259	1.162	1.222	4.841
C785	DIBENZO(A,H)ANTHRACENE	1.028	0.912	0.959	1.040	1.032	0.994	5.652
C790	BENZO(GHI)PERYLENE	1.111	0.978	1.005	0.938	0.992	1.005	6.405
C310	N-NITROSODIMETHYLAMINE	1.443	1.036	1.265	1.148	1.120	1.202	13.086
C620	1,2-DIPHENYL-HYDRAZINE	0.415	1.322	1.447	1.411	1.468	1.213	37.027
C320	ANILINE	1.037	1.378	2.099	2.197	1.948	1.732	28.933
CS50	2-FLUOROPHENOL ** SU1	1.027	1.537	1.654	1.696	1.643	1.511	18.337
CS45	PHENOL-D5 ** SU2 **	1.286	1.838	1.886	2.087	2.106	1.841	18.032
CS55	2,4,6-TRIBROMOPHENOL	0.114	0.168	0.158	0.161	0.173	0.155	14.984
CS20	NITROBENZENE-D5 ** SU3	0.444	0.468	0.503	0.495	0.499	0.482	5.218
CS25	2-FLUOROBIPHENYL **SU4	1.287	1.588	1.483	1.343	1.480	1.436	8.412
CS30	TERPHENYL-D14 ** SU6	0.947	1.221	1.236	1.264	1.723	1.278	21.889
CS70	2-CHLOROPHENOL-D4 ** S	1.312	1.834	1.952	2.098	2.163	1.872	18.040
CS75	1,2-DICHLOROBENZENE-D4	0.770	0.909	0.922	0.978	0.990	0.914	9.585
C647	CARBAZOLE	0.991	0.805	0.632	0.806	0.804	0.808	15.738
CC65	3+4-METHYLPHENOL							
A950	PYRIDINE	1.692	1.476	1.748	2.077	1.967	1.792	13.192

CHESTER LABNET DC # ---17

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4530

LAB ID. ES0425C02A

CLIENT CHESTER ANALYST JZ

DATE INJECTED 04/25/93 13:30:00 VERFIED BY

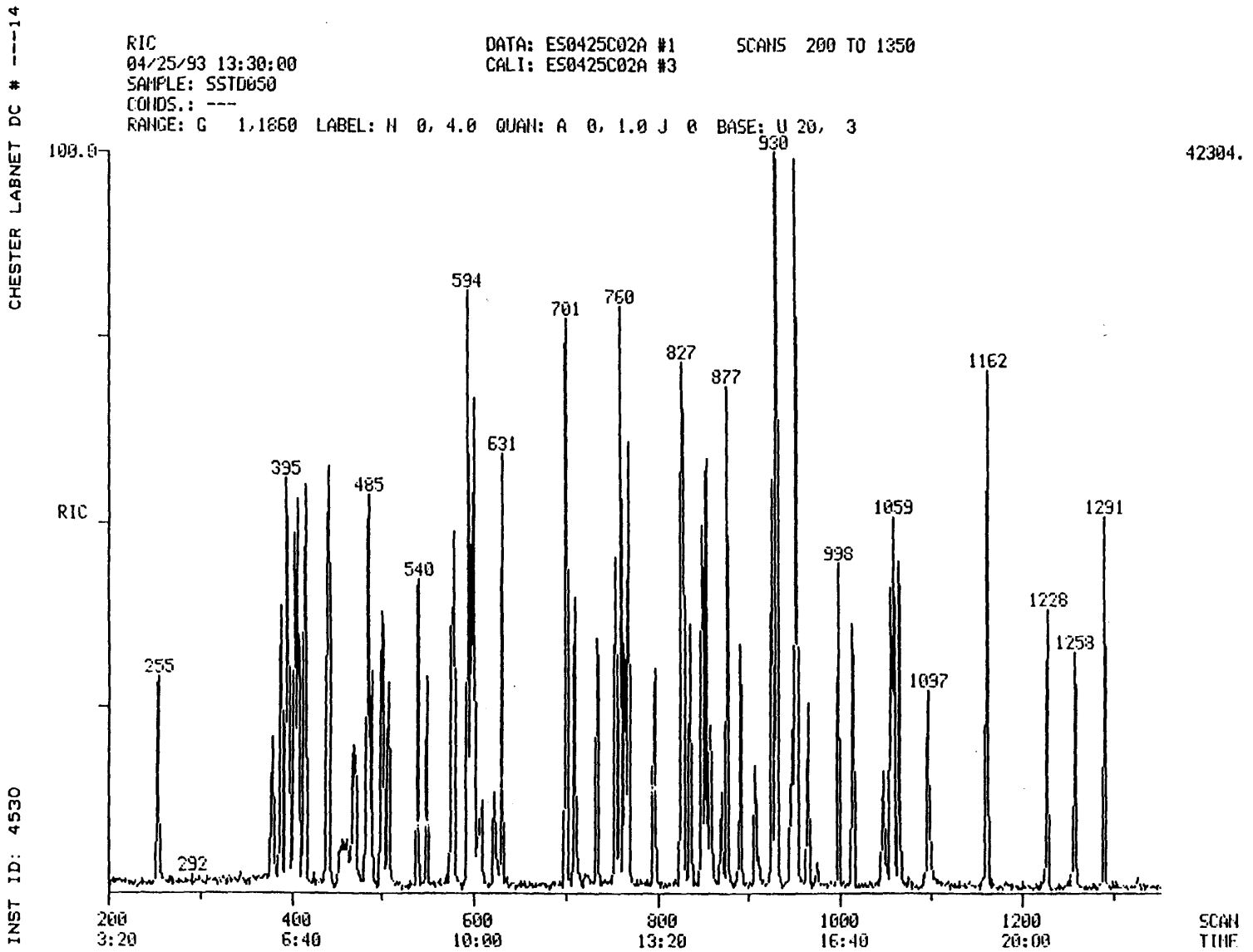
	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS1**		152	414	40	6349	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **		136	598	40	22690	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **		164	849	40	10850	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **		188	1056	40	15774	1.000	1.000
CI70	CHRYSENE-D12 ** IS5 **		240	1435	40	10586	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **		264	1627	40	14129	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **		112	255	50	12200	0.616	1.537
CS45	PHENOL-D5 ** SU2 **		99	403	50	14586	0.973	1.838
CS55	2,4,6-TRIBROMOPHENOL ** SU5 **		330	965	50	2272	1.137	0.168
CS20	NITROBENZENE-D5 ** SU3 **		82	500	50	13278	0.836	0.468
CS25	2-FLUOROBIPHENYL **SU4 **		172	760	50	21543	0.895	1.588
CS30	TERPHENYL-D14 ** SU6 **		244	1291	50	16155	0.900	1.221
C315	PHENOL	10A	94	405	50	12282	0.978	1.548
C325	BIS(2-CHLOROETHYL)ETHER	11B	93	389	50	14085	0.940	1.775
C330	2-CHLOROPHENOL	1A	128	397	50	11059	0.959	1.393
C335	1,3-DICHLOROBENZENE	21B	146	408	50	10844	0.986	1.366
C340	1,4-DICHLOROBENZENE	22B	146	416	50	12266	1.005	1.546
C345	BENZYL ALCOHOL		108	460	50	6331	1.111	0.798
C350	1,2-DICHLOROBENZENE	20B	146	442	50	11247	1.068	1.417
C355	2-METHYLPHENOL		108	483	50	8406	1.167	1.059
C357	2,2'-OXYBIS(1-CHLOROPROPANE)		45	469	50	8384	1.133	1.056
C365	4-METHYLPHENOL		108	507	50	8938	1.225	1.126
C370	N-NITROSODIPROPYLAMINE	42B	70	489	50	8390	1.181	1.057
C375	HEXACHLOROETHANE	36B	117	485	50	5458	1.171	0.688
C410	NITROBENZENE	40B	77	502	50	11474	0.839	0.405
C415	ISOPHORONE	38B	82	540	50	22378	0.903	0.789
C420	2-NITROPHENOL	6A	139	549	50	4923	0.918	0.174
C425	2,4-DIMETHYLPHENOL	3A	107	576	50	10139	0.963	0.357
C430	BENZOIC ACID		122	609	50	5541	1.018	0.195
C435	BIS(2-CHLOROETHOXY)METHANE	10B	93	579	50	13737	0.968	0.484
C440	2,4-DICHLOROPHENOL	2A	162	594	50	7013	0.993	0.247
C445	1,2,4-TRICHLOROBENZENE	46B	180	594	50	7959	0.993	0.281
C450	NAPHTHALENE	39B	128	600	50	25420	1.003	0.896
C455	4-CHLOROANILINE		127	622	50	6745	1.040	0.238
C460	HEXACHLOROBUTADIENE	34B	225	631	50	5406	1.055	0.191
C465	P-CHLORO-M-CRESOL	8A	107	710	50	10490	1.187	0.370
C470	2-METHYLNAPHTHALENE		142	701	50	22054	1.172	0.778
C510	HEXACHLOROCYCLOPENTADIENE	35B	237	734	50	5383	0.865	0.397
C515	2,4,6-TRICHLOROPHENOL	11A	196	754	50	5521	0.888	0.407
C520	2,4,5-TRICHLOROPHENOL		196	764	50	5782	0.900	0.426
C525	2-CHLORONAPHTHALENE	16B	162	768	50	18163	0.905	1.339
C530	2-NITROANILINE		65	797	50	6479	0.939	0.478
C535	DIMETHYL PHTHALATE	25B	163	829	50	24860	0.976	1.833
C540	ACENAPHTHYLENE	2B	152	827	50	25631	0.974	1.890
C545	3-NITROANILINE		138	858	50	4989	1.011	0.368
C550	ACENAPHTHENE	1B	153	854	50	15428	1.006	1.138

CHESTER LABNET DC # ---17

SV STANDARD REPORT PAGE 2

DATAFILE ES0425C02A

	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	5A	184	870	50	1708	1.025	0.126
C560	4-NITROPHENOL	7A	109	907	50	3646	1.068	0.269
C565	DIBENZOFURAN		168	877	50	23823	1.033	1.757
C570	2,4-DINITROTOLUENE	27B	165	891	50	6778	1.049	0.500
C543	2,6-DINITROTOLUENE	28B	165	836	50	5466	0.985	0.403
C580	DIETHYL PHTHALATE	24B	149	930	50	27648	1.095	2.039
C585	4-CHLOROPHENYL PHENYL ETHER	17B	204	931	50	8839	1.097	0.652
C590	FLUORENE	32B	166	925	50	16783	1.090	1.237
C595	4-NITROANILINE		138	946	50	3737	1.114	0.276
C610	4,6-DINITRO-2-METHYLPHENOL	4A	198	948	50	2387	0.898	0.121
C615	N-NITROSODIPHENYLAMINE	43B	169	952	50	12516	0.902	0.635
C625	4-BROMOPHENYL PHENYL ETHER	14B	248	998	50	5074	0.945	0.257
C630	HEXACHLOROBENZENE	33B	284	1014	50	4583	0.960	0.232
C635	PENTACHLOROPHENOL	9A	266	1047	50	2172	0.991	0.110
C640	PHENANTHRENE	44B	178	1059	50	19337	1.003	0.981
C645	ANTHRACENE	3B	178	1065	50	20132	1.009	1.021
C650	DI-N-BUTYL PHTHALATE	26B	149	1162	50	35737	1.100	1.812
C655	FLUORANTHENE	31B	202	1228	50	16249	1.163	0.824
C715	PYRENE	45B	202	1258	50	15382	0.877	1.162
C720	BUTYL BENZYL PHTHALATE	15B	149	1373	50	13426	0.957	1.015
C725	3,3'-DICHLOROBENZIDINE	23B	252	1438	50	5356	1.002	0.405
C730	BENZO(A)ANTHRACENE	5B	228	1432	50	13921	0.998	1.052
C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B	149	1463	50	19202	1.020	1.451
C740	CHRYSENE	18B	228	1438	50	13452	1.002	1.017
C760	DI-N-OCTYL PHTHALATE	29B	149	1547	50	38137	0.951	2.159
C765	BENZO(B)FLUORANTHENE	7B	252	1580	50	17140	0.971	0.970
C770	BENZO(K)FLUORANTHENE	9B	252	1583	50	22469	0.973	1.272
C775	BENZO(A)PYRENE	6B	252	1620	50	17746	0.996	1.005
C780	INDENO(1,2,3-CD)PYRENE	37B	276	1770	50	20844	1.088	1.180
C785	DIBENZO(A,H)ANTHRACENE	19B	278	1774	50	16110	1.090	0.912
C790	BENZO(GHI)PERYLENE	8B	276	1811	50	17274	1.113	0.978
C310	N-NITROSODIMETHYLAMINE	41B	74	119	50	8218	0.287	1.036
C710	BENZIDINE	4B	184	1260	50	438	0.878	0.033
CS70	2-CHLOROPHENOL-D4 ** SU7 **		132	395	50	14552	0.954	1.834
CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **		152	440	50	7216	1.063	0.909
C647	CARBAZOLE		167	1097	50	15876	1.039	0.805
C320	ANILINE		93	379	50	10940	0.915	1.378
A950	PYRIDINE		79	120	50	11715	0.290	1.476
C620	1,2-DIPHENYL-HYDRAZINE	30B	77	952	50	26075	0.902	1.322



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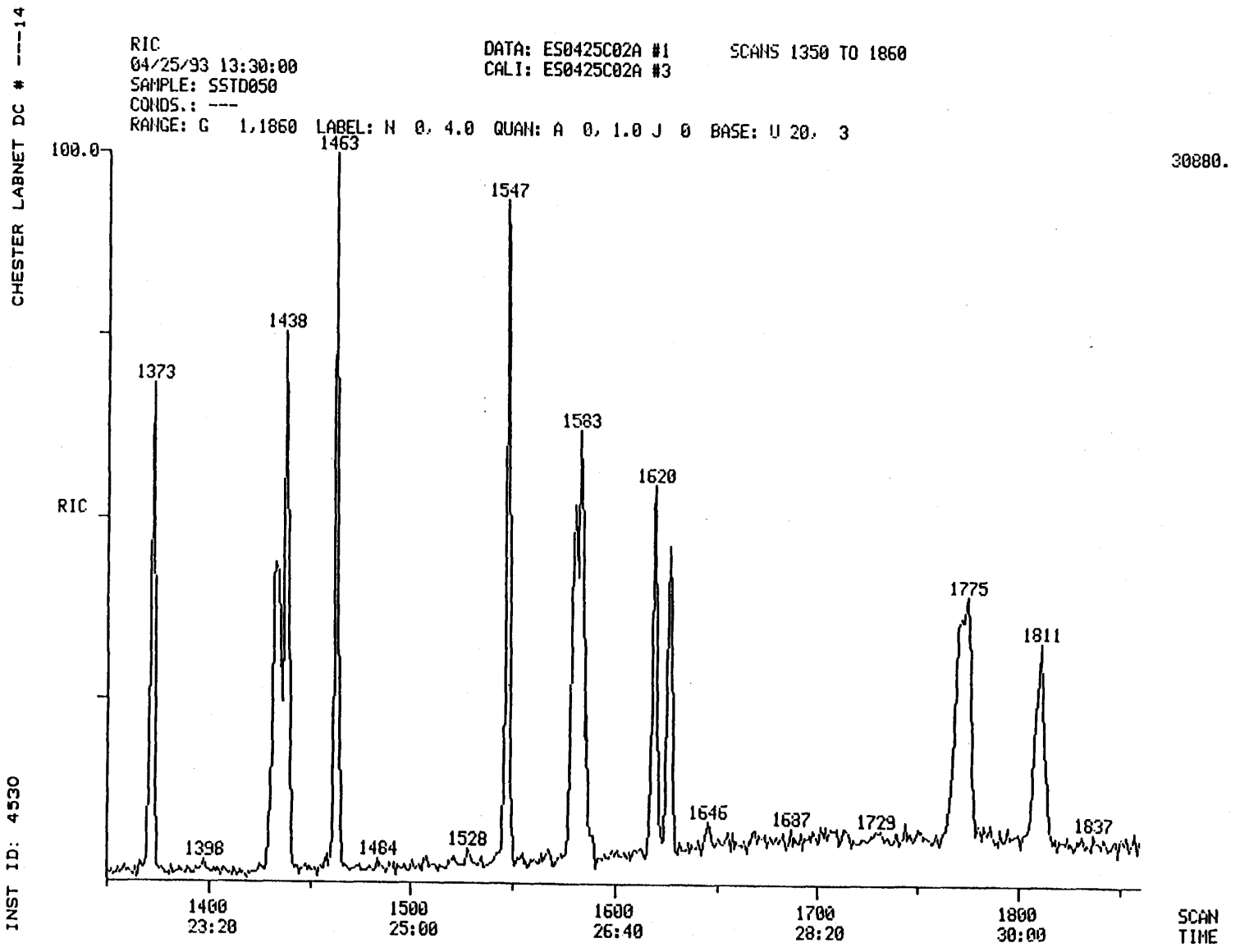

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Quantitation Report File: ES0425C02A

Data: ES0425C02A.TI
04/25/93 13:30:00
Sample: SSTD050
Conds.: ---
Formula: 04/17/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: JZ Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1**	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL **SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

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No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	414	6:54	1	1.000	A BB	6349.	40.000 UG/L	0.95
2	136	598	9:58	2	1.000	A BB	22690.	40.000 UG/L	0.95
3	164	849	14:09	3	1.000	A BB	10850.	40.000 UG/L	0.95
4	188	1056	17:36	4	1.000	A BB	15774.	40.000 UG/L	0.95
5	240	1435	23:55	5	1.000	A BB	10586.	40.000 UG/L	0.95
6	264	1627	27:07	6	1.000	A BB	14129.	40.000 UG/L	0.95
7	112	255	4:15	1	0.616	A BB	12200.	50.000 UG/L	1.19
8	99	403	6:43	1	0.973	A BB	14586.	50.000 UG/L	1.19
9	330	965	16:05	3	1.137	A BB	2272.	50.000 UG/L	1.19
10	82	500	8:20	2	0.836	A BB	13278.	50.000 UG/L	1.19
11	172	760	12:40	3	0.895	A BB	21543.	50.000 UG/L	1.19
12	244	1291	21:31	5	0.900	A BB	16155.	50.000 UG/L	1.19
13	94	405	6:45	1	0.978	A BB	12282.	50.000 UG/L	1.19
14	93	389	6:29	1	0.940	A VV	14085.	50.000 UG/L	1.19
15	128	397	6:37	1	0.959	A BB	11059.	50.000 UG/L	1.19
16	146	408	6:48	1	0.986	M XX	10844.	50.000 UG/L	1.19
17	146	416	6:56	1	1.005	A BB	12266.	50.000 UG/L	1.19
18	108	460	7:40	1	1.111	M XX	6331.	50.000 UG/L	1.19
19	146	442	7:22	1	1.068	A BB	11247.	50.000 UG/L	1.19
20	108	483	8:03	1	1.167	M XX	8406.	50.000 UG/L	1.19
21	45	469	7:49	1	1.133	A BB	8384.	50.000 UG/L	1.19
22	108	507	8:27	1	1.225	A BB	8938.	50.000 UG/L	1.19
23	70	489	8:09	1	1.181	A BB	8390.	50.000 UG/L	1.19
24	117	485	8:05	1	1.171	A BB	5458.	50.000 UG/L	1.19
25	77	502	8:22	2	0.839	A BV	11474.	50.000 UG/L	1.19
26	82	540	9:00	2	0.903	A BB	22378.	50.000 UG/L	1.19
27	139	549	9:09	2	0.918	A BB	4923.	50.000 UG/L	1.19
28	107	576	9:36	2	0.963	A BB	10139.	50.000 UG/L	1.19
29	122	609	10:09	2	1.018	M XX	5541.	50.000 UG/L	1.19
30	93	579	9:39	2	0.968	A BB	13737.	50.000 UG/L	1.19
31	162	594	9:54	2	0.993	A BB	7013.	50.000 UG/L	1.19
32	180	594	9:54	2	0.993	A BB	7959.	50.000 UG/L	1.19
33	128	600	10:00	2	1.003	A BB	25420.	50.000 UG/L	1.19
34	127	622	10:22	2	1.040	A BV	6745.	50.000 UG/L	1.19
35	225	631	10:31	2	1.055	A BB	5406.	50.000 UG/L	1.19
36	107	710	11:50	2	1.187	A BB	10490.	50.000 UG/L	1.19
37	142	701	11:41	2	1.172	A BB	22054.	50.000 UG/L	1.19
38	237	734	12:14	3	0.865	A BB	5383.	50.000 UG/L	1.19
39	196	754	12:34	3	0.888	A BB	5521.	50.000 UG/L	1.19
40	196	764	12:44	3	0.900	A BB	5782.	50.000 UG/L	1.19
41	162	768	12:48	3	0.905	A BB	18163.	50.000 UG/L	1.19
42	65	797	13:17	3	0.939	A BB	6479.	50.000 UG/L	1.19
43	163	829	13:49	3	0.976	A BB	24860.	50.000 UG/L	1.19
44	152	827	13:47	3	0.974	A BB	25631.	50.000 UG/L	1.19
45	138	858	14:18	3	1.011	A BB	4989.	50.000 UG/L	1.19
46	153	854	14:14	3	1.006	A BB	15428.	50.000 UG/L	1.19
47	184	870	14:30	3	1.025	A BB	1708.	50.000 UG/L	1.19
48	109	907	15:07	3	1.068	A BB	3646.	50.000 UG/L	1.19
49	168	877	14:37	3	1.033	A BB	23823.	50.000 UG/L	1.19
50	165	891	14:51	3	1.049	A BB	6778.	50.000 UG/L	1.19

011428

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	9:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:55	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:15	1.00	0.616	1.00	50.00	50.00	1.537	1.537	1.00
8	6:43	1.00	0.973	1.00	50.00	50.00	1.838	1.838	1.00
9	16:05	1.00	1.137	1.00	50.00	50.00	0.168	0.168	1.00
10	8:20	1.00	0.836	1.00	50.00	50.00	0.468	0.468	1.00
11	12:40	1.00	0.895	1.00	50.00	50.00	1.588	1.588	1.00
12	21:31	1.00	0.900	1.00	50.00	50.00	1.221	1.221	1.00
13	6:45	1.00	0.978	1.00	50.00	50.00	1.548	1.548	1.00
14	6:29	1.00	0.940	1.00	50.00	50.00	1.775	1.775	1.00
15	6:37	1.00	0.959	1.00	50.00	50.00	1.393	1.393	1.00
16	6:48	1.00	0.986	1.00	50.00	50.00	1.366	1.366	1.00
17	6:56	1.00	1.005	1.00	50.00	50.00	1.546	1.546	1.00
18	7:40	1.00	1.111	1.00	50.00	50.00	0.798	0.798	1.00
19	7:22	1.00	1.068	1.00	50.00	50.00	1.417	1.417	1.00
20	8:03	1.00	1.167	1.00	50.00	50.00	1.059	1.059	1.00
21	7:49	1.00	1.133	1.00	50.00	50.00	1.056	1.056	1.00
22	8:27	1.00	1.225	1.00	50.00	50.00	1.126	1.126	1.00
23	8:09	1.00	1.181	1.00	50.00	50.00	1.057	1.057	1.00
24	8:05	1.00	1.171	1.00	50.00	50.00	0.688	0.688	1.00
25	8:22	1.00	0.839	1.00	50.00	50.00	0.405	0.405	1.00
26	9:00	1.00	0.903	1.00	50.00	50.00	0.789	0.789	1.00
27	9:09	1.00	0.918	1.00	50.00	50.00	0.174	0.174	1.00
28	9:36	1.00	0.963	1.00	50.00	50.00	0.357	0.357	1.00
29	10:09	1.00	1.018	1.00	50.00	50.00	0.195	0.195	1.00
30	9:39	1.00	0.968	1.00	50.00	50.00	0.484	0.484	1.00
31	9:54	1.00	0.993	1.00	50.00	50.00	0.247	0.247	1.00
32	9:54	1.00	0.993	1.00	50.00	50.00	0.281	0.281	1.00
33	10:00	1.00	1.003	1.00	50.00	50.00	0.896	0.896	1.00
34	10:22	1.00	1.040	1.00	50.00	50.00	0.238	0.238	1.00
35	10:31	1.00	1.055	1.00	50.00	50.00	0.191	0.191	1.00
36	11:50	1.00	1.187	1.00	50.00	50.00	0.370	0.370	1.00
37	11:41	1.00	1.172	1.00	50.00	50.00	0.778	0.778	1.00
38	12:14	1.00	0.865	1.00	50.00	50.00	0.397	0.397	1.00
39	12:34	1.00	0.888	1.00	50.00	50.00	0.407	0.407	1.00
40	12:44	1.00	0.900	1.00	50.00	50.00	0.426	0.426	1.00
41	12:48	1.00	0.905	1.00	50.00	50.00	1.339	1.339	1.00
42	13:17	1.00	0.939	1.00	50.00	50.00	0.478	0.478	1.00
43	13:49	1.00	0.976	1.00	50.00	50.00	1.833	1.833	1.00
44	13:47	1.00	0.974	1.00	50.00	50.00	1.890	1.890	1.00
45	14:18	1.00	1.011	1.00	50.00	50.00	0.368	0.368	1.00
46	14:14	1.00	1.006	1.00	50.00	50.00	1.138	1.138	1.00
47	14:30	1.00	1.025	1.00	50.00	50.00	0.126	0.126	1.00
48	15:07	1.00	1.068	1.00	50.00	50.00	0.269	0.269	1.00
49	14:37	1.00	1.033	1.00	50.00	50.00	1.757	1.757	1.00
50	14:51	1.00	1.049	1.00	50.00	50.00	0.500	0.500	1.00

Quantitation Report File: ES0425C02A

Data: ES0425C02A.TI
04/25/93 13:30:00
Sample: SSTD050
Conds.: ---
Formula: 04/17/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: JZ Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	CS70	2-CHLOROPHENOL-D4 ** SU7 **	
81	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	
83	C320	ANILINE	
84	A950	PYRIDINE	
85	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	836	13:56	3	0.985	A BB	5466.	50.000 UG/L	1.19
52	149	930	15:30	3	1.095	A BB	27648.	50.000 UG/L	1.19
53	204	931	15:31	3	1.097	A BB	8839.	50.000 UG/L	1.19
54	166	925	15:25	3	1.090	A BB	16783.	50.000 UG/L	1.19
55	138	946	15:46	3	1.114	A BB	3737.	50.000 UG/L	1.19
56	198	948	15:48	4	0.898	A BB	2387.	50.000 UG/L	1.19
57	169	952	15:52	4	0.902	A BB	12516.	50.000 UG/L	1.19
58	248	998	16:38	4	0.945	A BB	5074.	50.000 UG/L	1.19

011430

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
59	284	1014	16:54	4	0.960	A BB	4583.	50.000	UG/L	1.19
60	266	1047	17:27	4	0.991	A BB	2172.	50.000	UG/L	1.19
61	178	1059	17:39	4	1.003	A BV	19337.	50.000	UG/L	1.19
62	178	1065	17:45	4	1.009	A VB	20132.	50.000	UG/L	1.19
63	149	1162	19:22	4	1.100	A BB	35737.	50.000	UG/L	1.19
64	202	1228	20:28	4	1.163	A BB	16249.	50.000	UG/L	1.19
65	202	1258	20:58	5	0.877	A BB	15382.	50.000	UG/L	1.19
66	149	1373	22:53	5	0.957	A BB	13426.	50.000	UG/L	1.19
67	252	1438	23:58	5	1.002	A BB	5356.	50.000	UG/L	1.19
68	228	1432	23:52	5	0.998	A BV	13921.	50.000	UG/L	1.19
69	149	1463	24:23	5	1.020	A BB	19202.	50.000	UG/L	1.19
70	228	1438	23:58	5	1.002	A VB	13452.	50.000	UG/L	1.19
71	149	1547	25:47	6	0.951	A BB	38137.	50.000	UG/L	1.19
72	252	1580	26:20	6	0.971	M XX	17140.	50.000	UG/L	1.19
73	252	1583	26:23	6	0.973	M XX	22469.	50.000	UG/L	1.19
74	252	1620	27:00	6	0.996	A BB	17746.	50.000	UG/L	1.19
75	276	1770	29:30	6	1.088	A BB	20844.	50.000	UG/L	1.19
76	278	1774	29:34	6	1.090	A BB	16110.	50.000	UG/L	1.19
77	276	1811	30:11	6	1.113	A BB	17274.	50.000	UG/L	1.19
78	74	119	1:59	1	0.287	A BB	8218.	50.000	UG/L	1.19
79	184	1260	21:00	5	0.878	M XX	438.	50.000	UG/L	1.19
80	132	395	6:35	1	0.954	A BB	14552.	50.000	UG/L	1.19
81	152	440	7:20	1	1.063	A BB	7216.	50.000	UG/L	1.19
82	167	1097	18:17	4	1.039	A BB	15876.	50.000	UG/L	1.19
83	93	379	6:19	1	0.915	M XX	10940.	50.000	UG/L	1.19
84	79	120	2:00	1	0.290	M XX	11715.	50.000	UG/L	1.19
85	77	952	15:52	4	0.902	M XX	26075.	50.000	UG/L	1.19

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	13:56	1.00	0.985	1.00	50.00	50.00	0.403	0.403	1.00
52	15:30	1.00	1.095	1.00	50.00	50.00	2.039	2.039	1.00
53	15:31	1.00	1.097	1.00	50.00	50.00	0.652	0.652	1.00
54	15:25	1.00	1.090	1.00	50.00	50.00	1.237	1.237	1.00
55	15:46	1.00	1.114	1.00	50.00	50.00	0.276	0.276	1.00
56	15:48	1.00	0.898	1.00	50.00	50.00	0.121	0.121	1.00
57	15:52	1.00	0.902	1.00	50.00	50.00	0.635	0.635	1.00
58	16:38	1.00	0.945	1.00	50.00	50.00	0.257	0.257	1.00
59	16:54	1.00	0.960	1.00	50.00	50.00	0.232	0.232	1.00
60	17:27	1.00	0.991	1.00	50.00	50.00	0.110	0.110	1.00
61	17:39	1.00	1.003	1.00	50.00	50.00	0.981	0.981	1.00
62	17:45	1.00	1.009	1.00	50.00	50.00	1.021	1.021	1.00
63	19:22	1.00	1.100	1.00	50.00	50.00	1.812	1.812	1.00
64	20:28	1.00	1.163	1.00	50.00	50.00	0.824	0.824	1.00
65	20:58	1.00	0.877	1.00	50.00	50.00	1.162	1.162	1.00
66	22:53	1.00	0.957	1.00	50.00	50.00	1.015	1.015	1.00
67	23:58	1.00	1.002	1.00	50.00	50.00	0.405	0.405	1.00
68	23:52	1.00	0.998	1.00	50.00	50.00	1.052	1.052	1.00
69	24:23	1.00	1.020	1.00	50.00	50.00	1.451	1.451	1.00
70	23:58	1.00	1.002	1.00	50.00	50.00	1.017	1.017	1.00
71	25:47	1.00	0.951	1.00	50.00	50.00	2.159	2.159	1.00
72	26:20	1.00	0.971	1.00	50.00	50.00	0.970	0.970	1.00
73	26:23	1.00	0.973	1.00	50.00	50.00	1.272	1.272	1.00
74	27:00	1.00	0.996	1.00	50.00	50.00	1.005	1.005	1.00
75	29:30	1.00	1.088	1.00	50.00	50.00	1.180	1.180	1.00
76	29:34	1.00	1.090	1.00	50.00	50.00	0.912	0.912	1.00
77	30:11	1.00	1.113	1.00	50.00	50.00	0.978	0.978	1.00

011431

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	1:59	1.00	0.287	1.00	50.00	50.00	1.036	1.035	1.00
79	21:00	1.00	0.878	1.00	50.00	50.00	0.033	0.033	1.00
80	6:35	1.00	0.954	1.00	50.00	50.00	1.834	1.834	1.00
81	7:20	1.00	1.063	1.00	50.00	50.00	0.909	0.909	1.00
82	18:17	1.00	1.039	1.00	50.00	50.00	0.805	0.805	1.00
83	6:19	1.00	0.915	1.00	50.00	50.00	1.378	1.378	1.00
84	2:00	1.00	0.290	1.00	50.00	50.00	1.476	1.476	1.00
85	15:52	1.00	0.902	1.00	50.00	50.00	1.322	1.322	1.00

011432

THE FOLLOWING DATA IS

FOR QA/QC

011432

011433

CHESTER LABNET DC # --- 8

INST ID: 4530

SAMPLE NUMBER: SBLK (LLS)

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET

CASE NO.: --

LAB SAMPLE ID NO.: 93--

QC REPORT NO.: 04/17/93

SAMPLE MATRIX: SOIL

CONTRACT NO.: ---

DATA RELEASE AUTHORIZED BY: .....

DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW 4/14/93

DATAFILE: 4B0414C01

DATE EXTRACTED: .....

DATE ANALYZED: 04/24/93

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT

J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011434

CHESTER LABNET DC # --- 8

INST ID: 4530

SAMPLE NUMBER: SBLK (LLS)

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET

CASE NO.: --

LAB SAMPLE ID NO.: 93--

QC REPORT NO.: 04/17/93

SAMPLE MATRIX: SOIL

CONTRACT NO.: ---

DATA RELEASE AUTHORIZED BY: .....

DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW

DATAFILE: 4B0414C01

DATE EXTRACTED: 4/14/93

DATE ANALYZED: 04/24/93

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C315	PHENOL	330 U	
C325	BIS(2-CHLOROETHYL)ETHER	330 U	
C330	2-CHLOROPHENOL	330 U	
C335	1,3-DICHLOROBENZENE	330 U	
C340	1,4-DICHLOROBENZENE	330 U	
C345	BENZYL ALCOHOL	330 U	
C350	1,2-DICHLOROBENZENE	330 U	
C355	2-METHYLPHENOL	330 U	
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	330 U	
C365	4-METHYLPHENOL	330 U	
C370	N-NITROSODIPROPYLAMINE	330 U	
C375	HEXACHLOROETHANE	330 U	
C410	NITROBENZENE	330 U	
C415	ISOPHORONE	330 U	
C420	2-NITROPHENOL	330 U	
C425	2,4-DIMETHYLPHENOL	330 U	
C430	BENZOIC ACID	1650 U	
C435	BIS(2-CHLOROETHOXY)METHANE	330 U	
C440	2,4-DICHLOROPHENOL	330 U	
C445	1,2,4-TRICHLOROBENZENE	330 U	
C450	NAPHTHALENE	330 U	
C455	4-CHLOROANILINE	330 U	
C460	HEXACHLOROBUTADIENE	330 U	
C465	P-CHLORO-M-CRESOL	330 U	
C470	2-METHYLNAPHTHALENE	330 U	
C510	HEXACHLOROCYCLOPENTADIENE	330 U	
C515	2,4,6-TRICHLOROPHENOL	330 U	
C520	2,4,5-TRICHLOROPHENOL	1650 U	
C525	2-CHLORONAPHTHALENE	330 U	
C530	2-NITROANILINE	1650 U	
C535	DIMETHYL PHTHALATE	330 U	
C540	ACENAPHTHYLENE	330 U	
C545	3-NITROANILINE	1650 U	
C550	ACENAPHTHENE	330 U	
C555	2,4-DINITROPHENOL	1650 U	
C560	4-NITROPHENOL	1650 U	
C565	DIBENZOFURAN	330 U	
C570	2,4-DINITROTOLUENE	330 U	
C543	2,6-DINITROTOLUENE	330 U	

CHESTER LABNET DC # --- 8

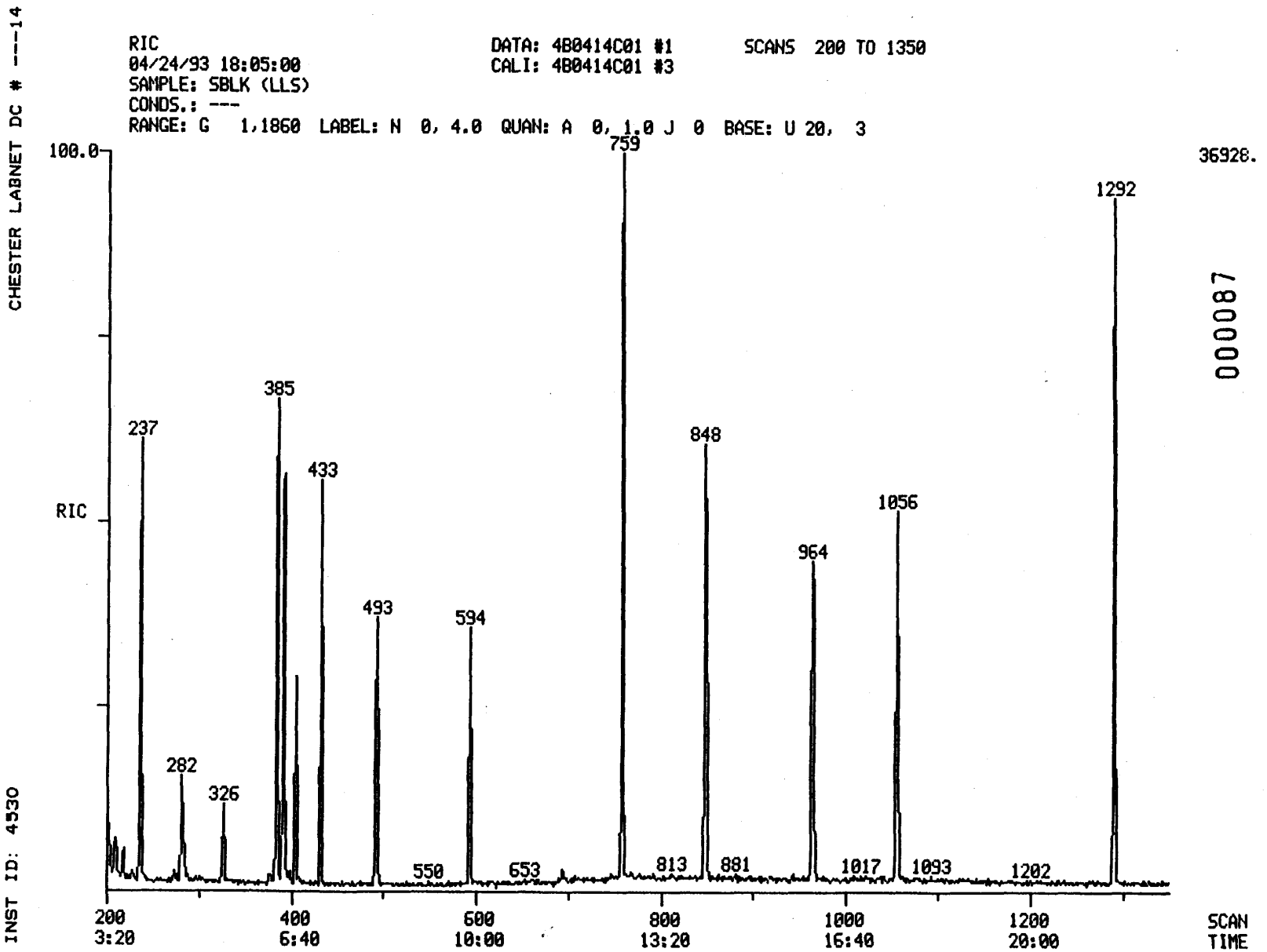
SAMPLE NUMBER: SBLK (LLS)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET, CONTINUED

DATAFILE: 4B0414C01

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C580	DIETHYL PHTHALATE	330 U	
C585	4-CHLOROPHENYL PHENYL ETHER	330 U	
C590	FLUORENE	330 U	
C595	4-NITROANILINE	1650 U	
C610	4,6-DINITRO-2-METHYLPHENOL	1650 U	
C615	N-NITROSODIPHENYLAMINE	330 U	
C625	4-BROMOPHENYL PHENYL ETHER	330 U	
C630	HEXACHLOROBENZENE	330 U	
C635	PENTACHLOROPHENOL	1650 U	
C640	PHENANTHRENE	330 U	
C645	ANTHRACENE	330 U	
C650	DI-N-BUTYL PHTHALATE	330 U	
C655	FLUORANTHENE	330 U	
C715	PYRENE	330 U	
C720	BUTYL BENZYL PHTHALATE	330 U	
C725	3,3'-DICHLOROBENZIDINE	660 U	
C730	BENZO(A)ANTHRACENE	330 U	
C745	BIS(2-ETHYLHEXYL)PHTHALATE	330 U	
C740	CHRYSENE	330 U	
C760	DI-N-OCTYL PHTHALATE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	
C790	BENZO(GHI)PERYLENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



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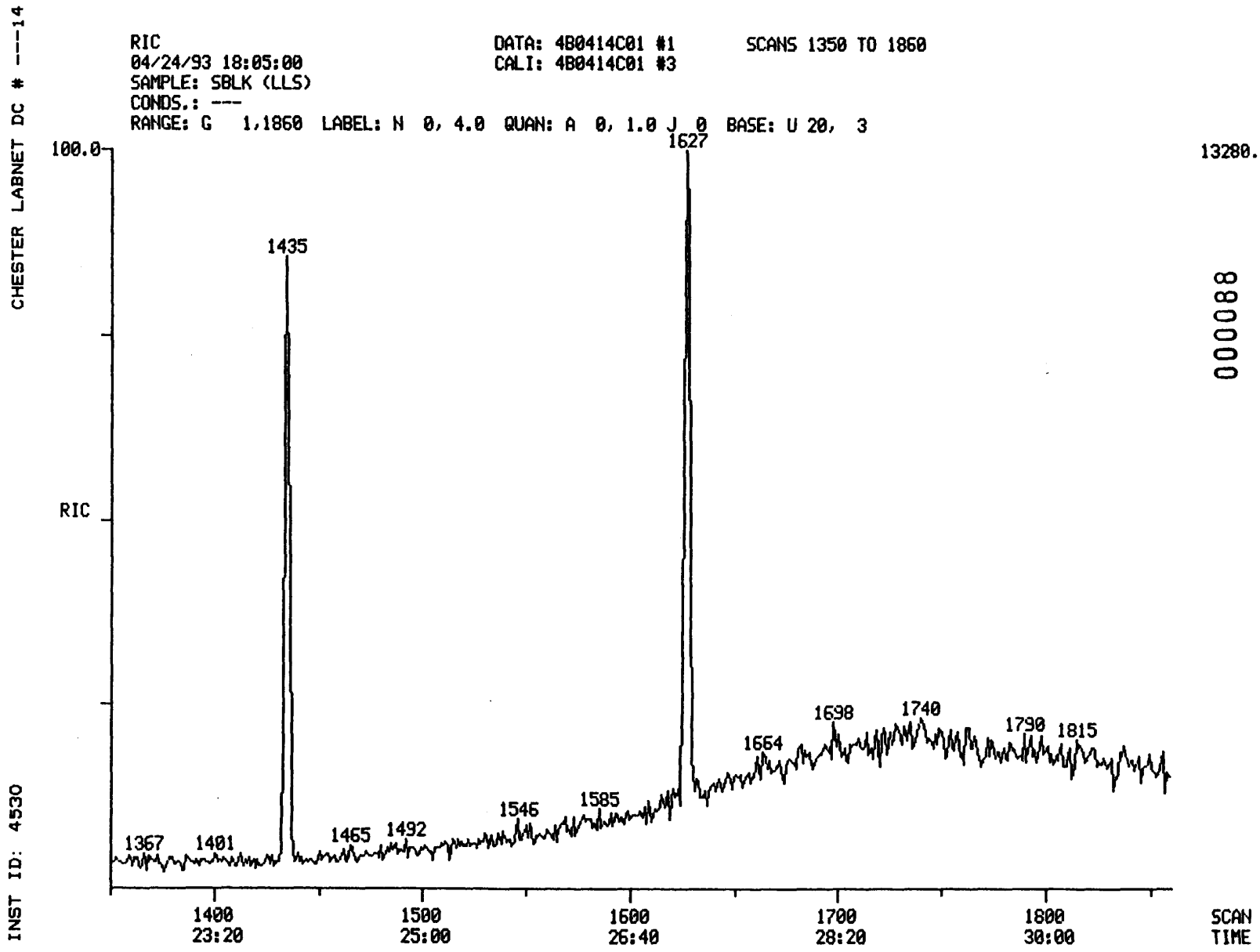

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SEMIVOLATILE SOIL REPORT

011438

SAMPLE ID.	SBLK (LLS)		
FILENAME	4B0414C01	INST ID.	4530
CLIENT	CHESTER	ANALYST	JZ
DATE INJECTED	04/24/93 18:05:00	VERIFIED BY	SC
CALIB STD DATE	04/17/93	CORR. FACTOR	33.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
405	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	660 UG/KG	1.000	413
594	CI40	NAPHTHALENE-D8 ** IS2 **	136	660 UG/KG	1.000	1502
848	CI50	ACENAPHTHENE-D10 ** IS3 **	164	660 UG/KG	1.000	1154
1056	CI60	PHENANTHRENE-D10 ** IS4 **	188	660 UG/KG	1.000	1748
1435	CI70	CHRYSENE-D12 ** IS5 **	240	660 UG/KG	1.000	1068
1627	CI75	PERYLENE-D12 ** IS6 **	264	660 UG/KG	1.000	1351
237	CS50	2-FLUOROPHENOL ** SU1 **	112	71 %	0.585	1452
391	CS45	PHENOL-D5 ** SU2 **	99	63 %	0.965	1987
964	CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	65 %	1.137	433
385	CS70	2-CHLOROPHENOL-D4 ** SU7 **	132	54 %	0.951	1558
433	CS75	1,2-DICHLOROBENZENE-D4 ** SU	152	65 %	1.069	632
493	CS20	NITROBENZENE-D5 ** SU3 **	82	56 %	0.830	1000
759	CS25	2-FLUOROBIPHENYL **SU4 **	172	61 %	0.895	2646
1292	CS30	TERPHENYL-D14 ** SU6 **	244	100 %	0.900	2873

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SBLK (LLS)

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410101
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

DATAFILE: 9B04101C01

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011440

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SBLK (LLS)

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930410101
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/24/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/14/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/14/93
DATE ANALYZED: 04/25/93

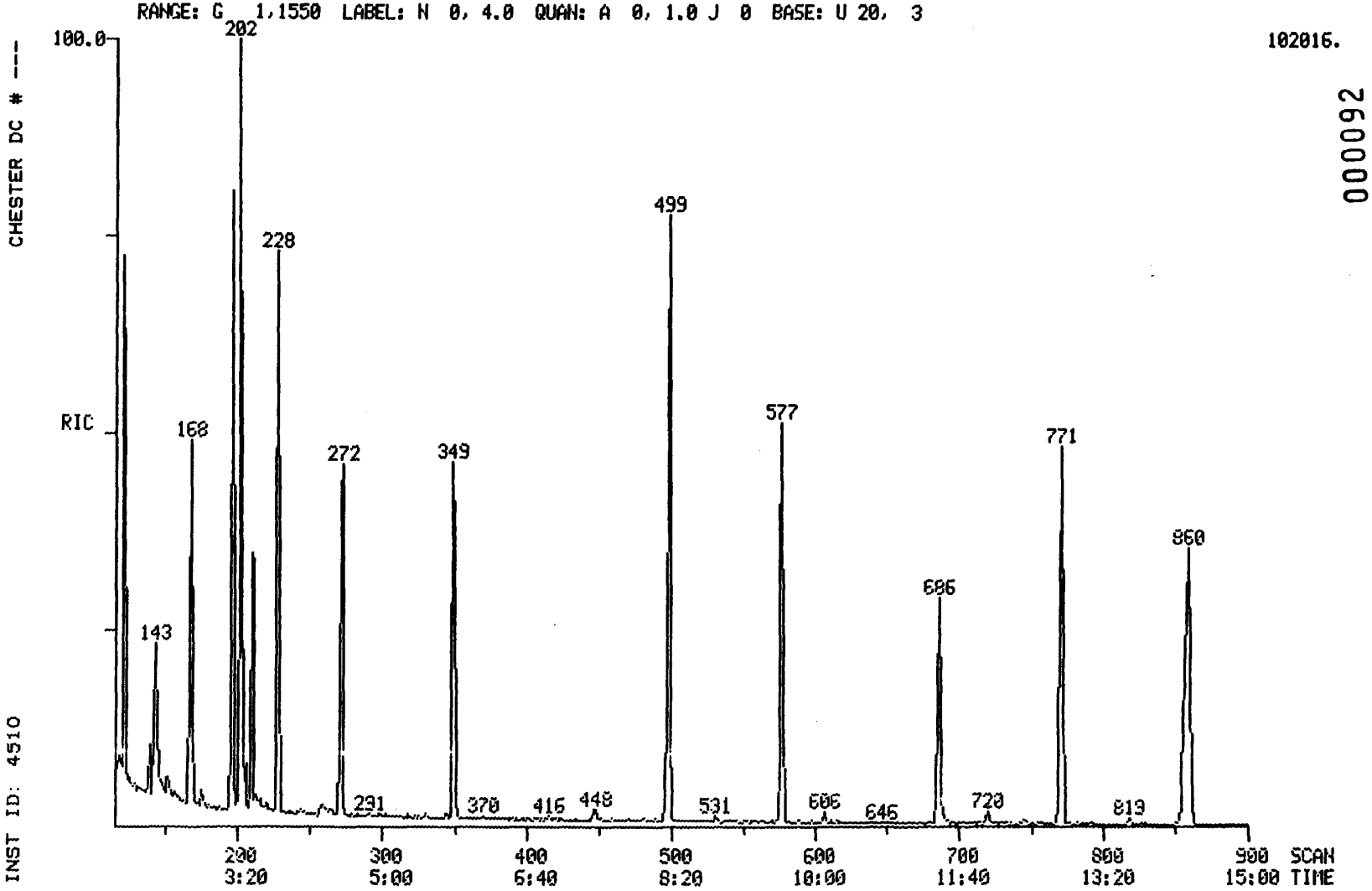
DATAFILE: 9B04101C01

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	330 U	
C540	ACENAPHTHYLENE	330 U	
C550	ACENAPHTHENE	330 U	
C590	FLUORENE	330 U	
C640	PHENANTHRENE	330 U	
C645	ANTHRACENE	330 U	
C655	FLUORANTHENE	330 U	
C715	PYRENE	330 U	
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	
C790	BENZO(GHI)PERYLENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

RIC
04/25/93 15:55:00
SAMPLE: SBLK (LLS)
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B04101C01 #1 SCANS 115 TO 900
CALI: 9B04101C01 #3



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CHESTER DC # ---

INST ID: 4510

-14

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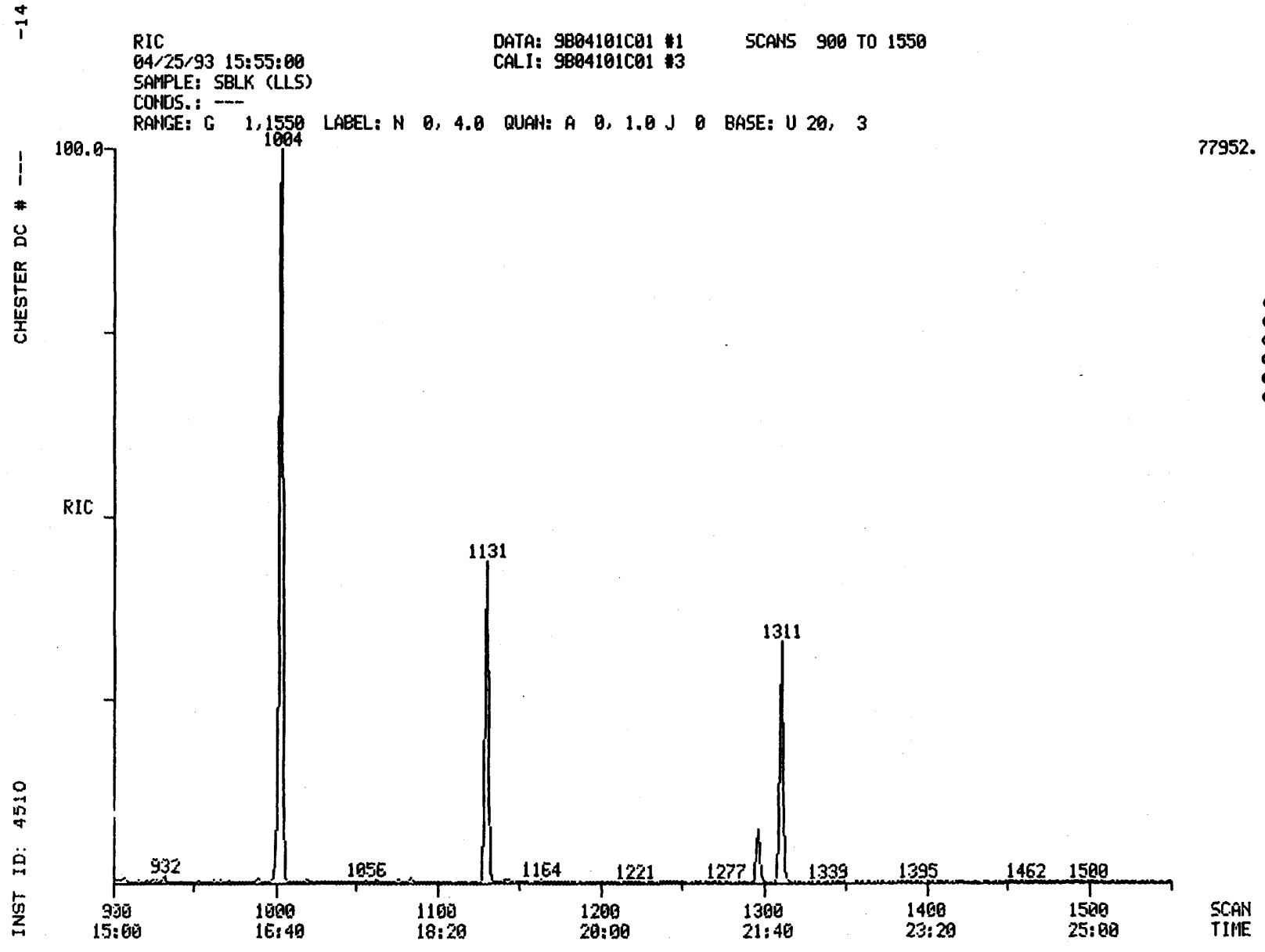

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CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID.	SBLK (LLS)		
FILENAME	9B04101C01	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JZ
DATE INJECTED	04/25/93 15:55:00	VERIFIED BY	
CALIB STD DATE	04/24/93	CORR. FACTOR	33.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
210	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	152	660 UG/KG	1.000	1204
349	CI40	NAPHTHALENE-D8 ** IS2 **	136	660 UG/KG	1.000	4856
577	CI50	ACENAPHTHENE-D10 ** IS3 **	164	660 UG/KG	1.000	2914
771	CI60	PHENANTHRENE-D10 ** IS4 **	188	660 UG/KG	1.000	4762
1131	CI70	CHRYSENE-D12 ** IS5 **	240	660 UG/KG	1.000	3300
1311	CI75	PERYLENE-D12 ** IS6 **	264	660 UG/KG	1.000	2650
121	CS50	2-FLUOROPHENOL ** SU1 **	112	59 %	0.576	3333
202	CS45	PHENOL-D5 ** SU2 **	99	68 %	0.962	5903
686	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	330	57 %	1.189	1118
196	CS70	2-CHLOROPHENOL-D4 ** SU7 **	132	52 %	0.933	4463
228	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	152	69 %	1.086	1856
272	CS20	NITROBENZENE-D5 ** SU3 **	82	68 %	0.779	3308
499	CS25	2-FLUOROBIPHENYL ** SU4 **	172	69 %	0.865	6670
1003	CS30	TERPHENYL-D14 ** SU6 **	244	78 %	0.887	9315

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	--	Laboratory:	CHESTER	Contract:	---
Inst ID:	4530	Sens Date:	04/24/93	Sens Time:	14:58:00
Lab ID:	ES0424C01	Cali Date:	04/17/93	Analyst:	JZ

Data release authorized by: [signature]

M/E	Ion Abundance Criteria	Spec # 356	
51	30 to 60% of mass 198	32.24	
68	less than 2% of mass 69	0.00	(0.00) 1
69	mass 69 relative abundance	50.65	
70	less than 2% of mass 69	0.00	(0.00) 1
127	40 TO 60% of mass 198	53.40	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	5.43	
275	10 TO 30% of mass 198	21.93	
365	greater than 1% of mass 198	1.88	
441	less than mass 443	7.57	
442	greater than 40% of mass 198	62.54	
443	17 TO 23% of mass 442	11.93	(19.08) 2

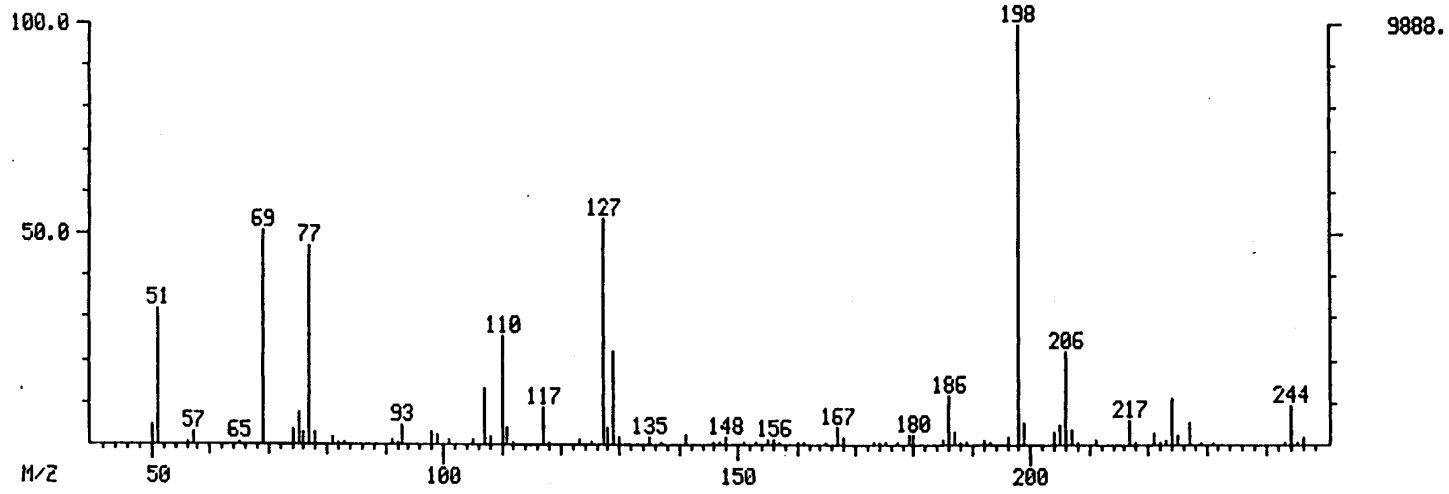
1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

CHESTER LABNET DC # ---15

MASS SPECTRUM
04/24/93 14:58:00 + 5:57
SAMPLE: DFTPP
CONDS.: ---
#356 TO #358 SUMMED - #300

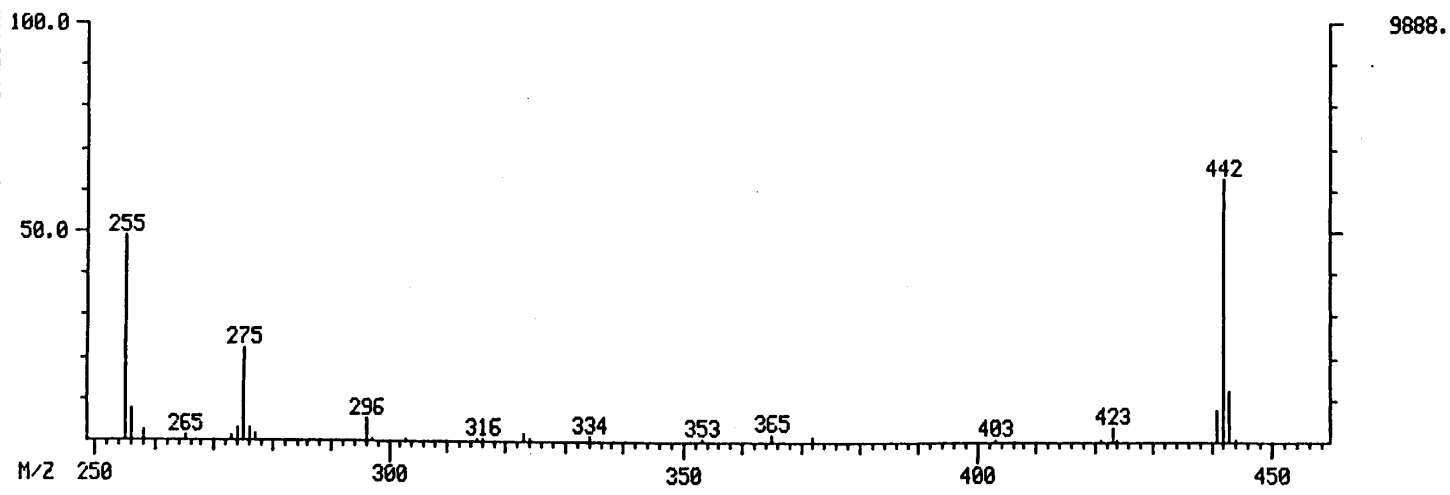
DATA: ES0424C01 #357
CALI: ES0424C01 #3

BASE M/Z: 198
RIC: 72192.



DFTPP SPECTRA

INST ID: 4530



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INST ID: 4530 CHESTER LABNET DC # ---15

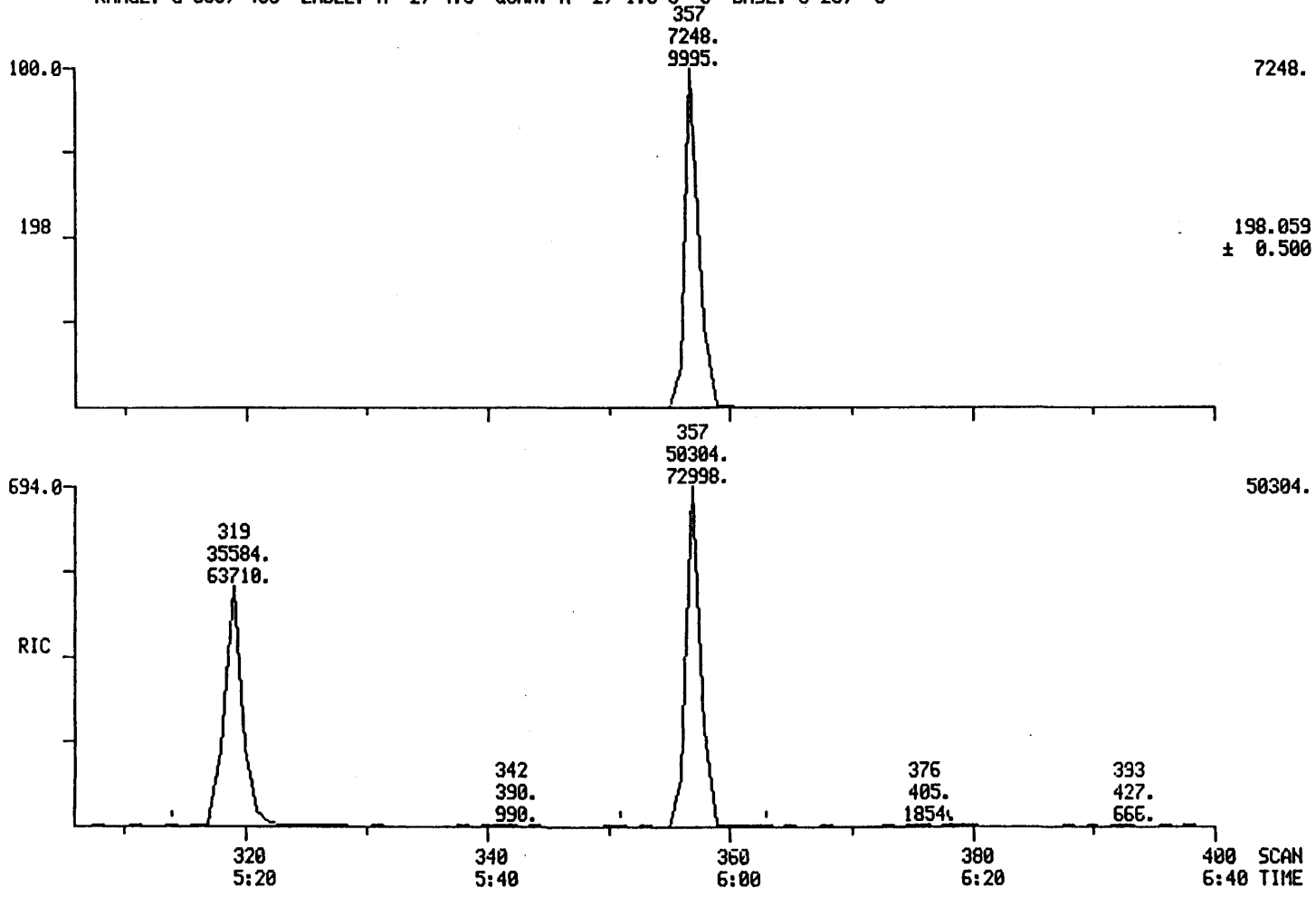
DFTPP MASS LISTING

Mass List Data: ES0424C01 # 357 Base m/z: 198
04/24/93 14:58:00 + 5:57 Cali: ES0424C01 # 3 RIC: 72192.
Sample: DFTPP
Conds.: ---
#356 to #358 summed - #300

50 0.00 0. Minima Min Inten: 41.
444 Maxima # 0

Mass	% RA	Inten.	Mass	% RA	Inten.
50.00	4.71	466.	185.00	1.32	131.
51.00	32.24	3188.	186.00	11.87	1174.
56.00	0.72	71.	187.00	2.72	269.
57.00	2.72	269.	188.00	0.50	49.
69.00	50.65	5008.	189.00	0.58	57.
74.00	3.33	329.	192.00	1.23	122.
75.00	7.41	733.	193.00	0.64	63.
76.00	2.94	291.	196.00	1.85	183.
77.00	46.84	4632.	198.00	100.00	9888.
78.00	2.89	286.	199.00	5.43	537.
81.00	2.02	200.	204.00	2.80	277.
83.00	0.76	75.	205.00	4.79	474.
91.00	1.01	100.	206.00	22.01	2176.
92.00	0.63	62.	207.00	3.45	341.
93.00	4.70	465.	211.00	0.90	89.
98.00	2.89	286.	217.00	5.60	554.
99.00	2.59	256.	221.00	3.20	316.
101.00	1.05	104.	223.00	1.06	105.
105.00	1.33	132.	224.00	11.02	1090.
107.00	13.09	1294.	225.00	2.31	228.
108.00	1.90	188.	227.00	5.21	515.
110.00	25.32	2504.	229.00	0.78	77.
111.00	3.98	394.	231.00	0.46	45.
117.00	8.62	852.	243.00	0.58	57.
118.00	0.61	60.	244.00	9.51	940.
123.00	0.89	88.	245.00	0.80	79.
127.00	53.40	5280.	246.00	1.47	145.
128.00	3.92	388.	255.00	48.71	4816.
129.00	22.05	2180.	256.00	7.77	768.
130.00	1.60	158.	258.00	2.09	207.
135.00	1.60	158.	265.00	1.05	104.
137.00	0.52	51.	273.00	1.30	129.
141.00	2.48	245.	274.00	2.99	296.
147.00	0.66	65.	275.00	21.93	2168.
148.00	1.81	179.	276.00	2.72	269.
151.00	0.52	51.	277.00	1.50	148.
153.00	0.70	69.	296.00	5.05	499.
155.00	1.26	125.	297.00	0.74	73.
156.00	1.45	143.	316.00	0.46	45.
157.00	0.67	66.	323.00	1.86	184.
160.00	0.63	62.	324.00	0.57	56.
161.00	0.43	43.	334.00	1.40	138.
167.00	4.14	409.	365.00	1.88	186.
168.00	1.59	157.	372.00	1.06	105.
173.00	0.43	43.	421.00	0.48	47.
174.00	0.73	72.	423.00	3.43	339.
175.00	0.79	78.	441.00	7.57	749.
177.00	0.43	43.	442.00	62.54	6184.
179.00	2.22	220.	443.00	11.93	1180.
180.00	2.56	253.	444.00	0.76	75.

RIC+MASS CHROMATOGRAM DATA: ES0424C01 #356 SCANS 306 TO 400
04/24/93 14:58:00 CALI: ES0424C01 #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 306, 406 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



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GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	--	Laboratory:	CHESTER	Contract:	---
Inst ID:	4530	Sens Date:	04/25/93	Sens Time:	12:29:00
Lab ID:	ES0425C01A	Cali Date:	04/~~17~~ 25/93	Analyst:	JZ

Data release authorized by: [signature]

M/E	Ion Abundance Criteria	Spec # 351	
51	30 to 60% of mass 198	35.96	
68	less than 2% of mass 69	0.66	(1.23) 1
69	mass 69 relative abundance	53.75	
70	less than 2% of mass 69	0.00	(0.00) 1
127	40 TO 60% of mass 198	50.94	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	5.97	
275	10 TO 30% of mass 198	23.25	
365	greater than 1% of mass 198	3.25	
441	less than mass 443	7.15	
442	greater than 40% of mass 198	59.30	
443	17 TO 23% of mass 442	12.88	(21.73) 2

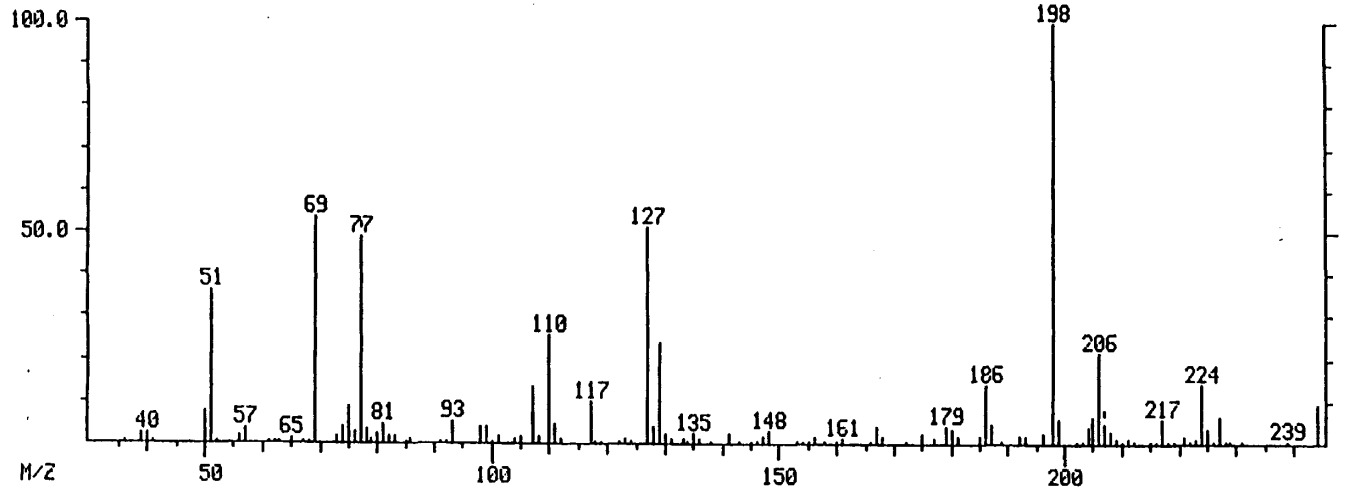
1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

CHESTER LABNET DC # ---15

MASS SPECTRUM
04/25/93 12:29:00 + 5:52
SAMPLE: DFTPP
CONDS.: ---
#351 TO #353 SUMMED - #310

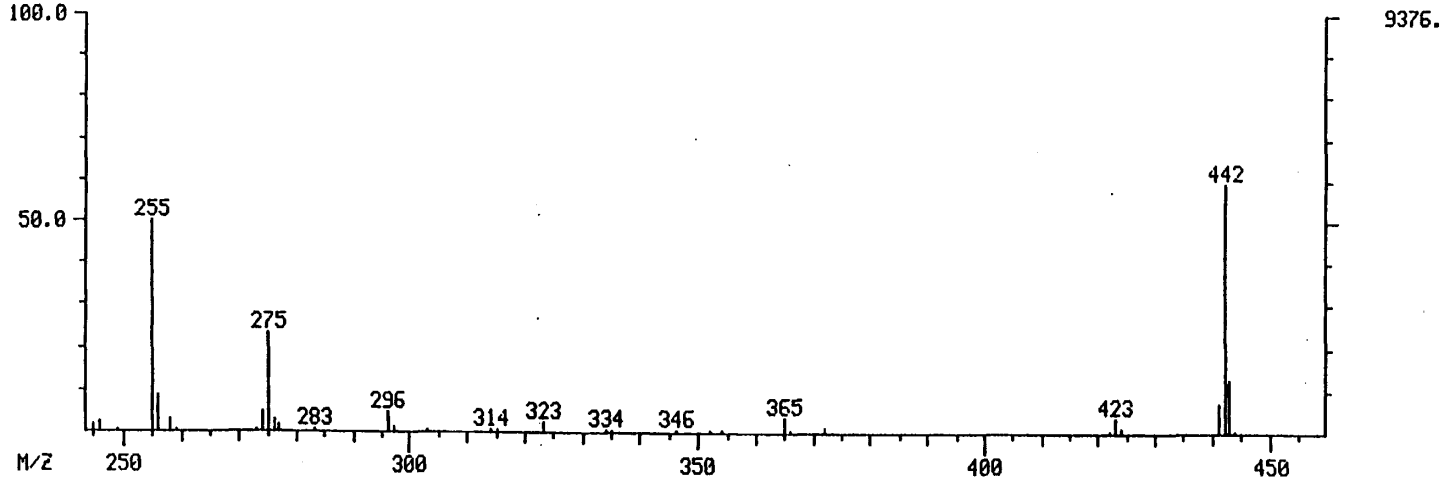
DATA: ES0425C01A #352
CALI: ES0425C01A #3

BASE M/Z: 198
RIC: 76928.



DFTPP SPECTRA

INST ID: 4530



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INST ID: 4530

CHESTER LABNET DC # ---15

DFTPP MASS LISTING

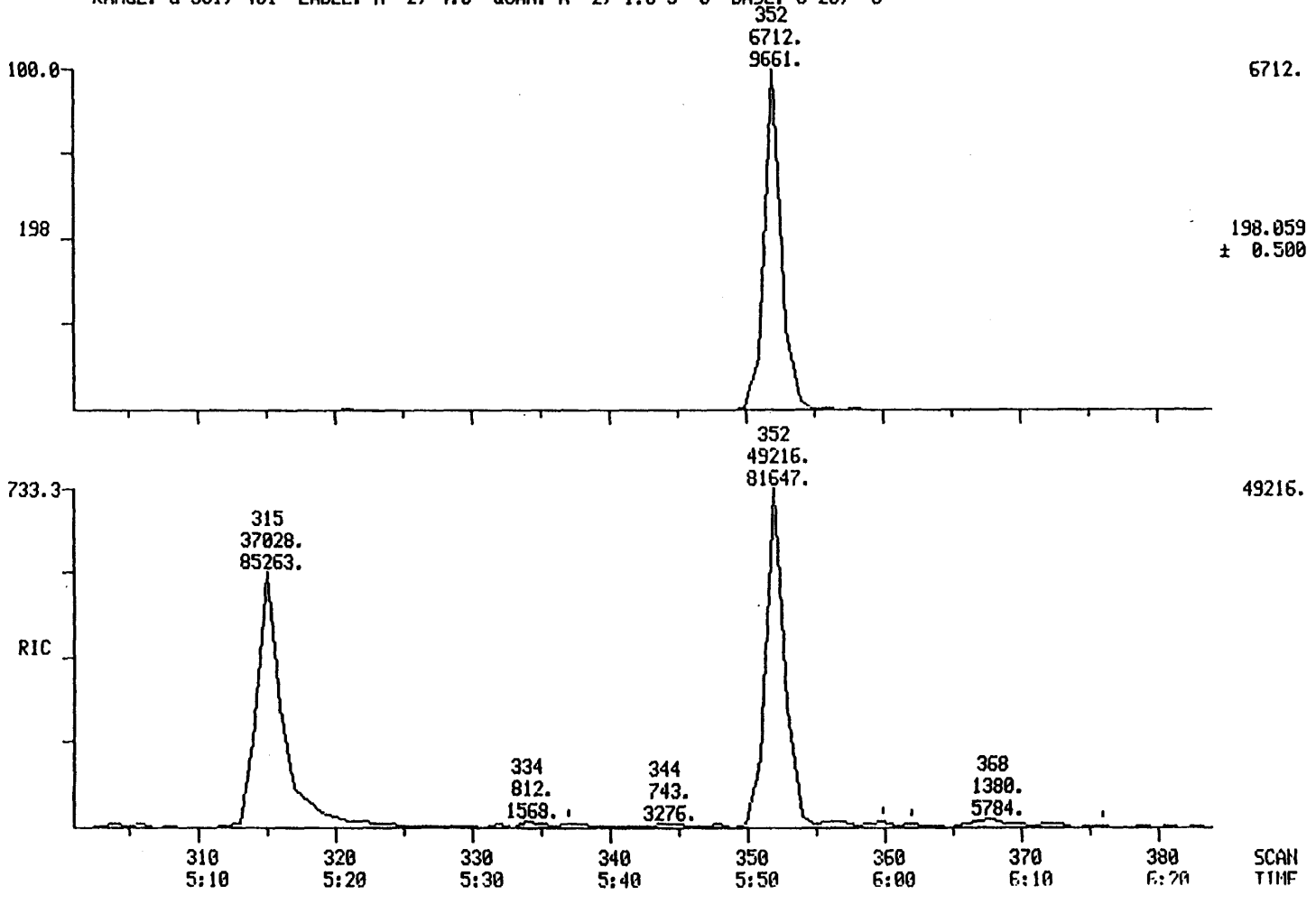
Mass List
04/25/93 12:29:00 + 5:52
Sample: DFTPP
Conds.: ---
#351 to #353 summed - #310

Data: ES0425C01A # 352
Cali: ES0425C01A # 3

Base m/z: 198
RIC: 76928.

36		0.00	0.	Minima	Min Inten:	66.
444				Maxima #	0	
Mass		% RA	Inten.	Mass	% RA	Inten.
39.00?		2.42	227.	168.00	1.93	181.
40.00		2.51	235.	175.00	2.17	203.
41.00		0.70	66.	177.00	1.09	102.
50.00		7.65	717.	179.00	3.99	374.
51.00		35.96	3372.	180.00	3.36	315.
56.00		1.89	177.	181.00	1.53	143.
57.00		3.67	344.	185.00	1.64	154.
65.00		1.02	96.	186.00	13.67	1282.
69.00		53.75	5040.	187.00	4.92	461.
73.00		1.74	163.	189.00	0.85	80.
74.00		4.05	380.	192.00	1.53	143.
75.00		8.56	803.	193.00	1.87	175.
76.00		2.85	267.	196.00	2.45	230.
77.00	S	49.06	4600.	198.00	100.00	9376.
78.00		3.55	333.	199.00	5.97	560.
79.00		1.32	124.	204.00	3.91	367.
80.00		2.57	241.	205.00	6.51	610.
81.00		4.51	423.	206.00	21.27	1994.
82.00		1.71	160.	207.00	S 4.81	451.
83.00		1.55	145.	208.00	2.89	271.
86.00		1.07	100.	209.00	0.89	83.
93.00		5.24	491.	211.00	0.96	90.
98.00		4.02	377.	217.00	5.80	544.
99.00		4.15	389.	221.00	1.91	179.
100.00		0.80	75.	223.00	1.10	103.
101.00		1.90	178.	224.00	13.93	1306.
104.00		1.27	119.	225.00	3.50	328.
105.00		1.73	162.	227.00	6.27	588.
107.00		13.18	1236.	229.00	0.79	74.
108.00		1.91	179.	244.00	9.34	876.
110.00		25.30	2372.	245.00	1.51	142.
111.00		4.59	430.	246.00	2.31	217.
112.00		1.31	123.	255.00	49.83	4672.
117.00		9.66	906.	256.00	8.63	809.
123.00		1.30	122.	258.00	3.07	288.
127.00		50.94	4776.	273.00	0.76	71.
128.00		4.04	379.	274.00	4.84	454.
129.00		23.76	2228.	275.00	23.25	2180.
130.00		2.14	201.	276.00	2.85	267.
131.00		0.90	84.	277.00	1.87	175.
133.00		1.29	121.	296.00	4.54	426.
135.00		2.59	243.	297.00	0.90	84.
136.00		1.28	120.	323.00	2.13	200.
141.00		2.29	215.	365.00	3.25	305.
147.00		2.02	189.	372.00	1.41	132.
148.00		2.94	276.	423.00	3.78	354.
155.00		0.70	66.	424.00	0.96	90.
156.00		2.01	188.	441.00	7.15	670.
161.00		1.13	106.	442.00	59.30	5560.
167.00		4.04	379.	443.00	12.88	1208.

RIC+MASS CHROMATOGRAM DATA: ES0425C01A #351 SCANS 301 TO 384
04/25/93 12:29:00 CALI: ES0425C01A #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 301, 401 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



000102

011451

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

Project Number # [illegible]

Project Location ____

Laboratory CHESTER

Sampler(s) WES FIANDT

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	% Moisture	Drying Process - Supernatant									TOTAL
SC-PW 1 SOIL		X	X									
SC-PW 2 SOIL		X	X									
SC-PW 3 SOIL		X	X									
SC-PW 4 SOIL		X	X									
SC-PW 5 SOIL		X	X									
SC-PW 6 SOIL		X	X									
SC-PW 7 SOIL		X	X									
SC-PW 8 SOIL		X	X									
SC-PW 9 SOIL		X	X									
SC-PW 10 SOIL		X	X									
SC-PW DUP SOIL		X	X									

000103

Relinquished by:	Ron Kargrave	Organization:	CHESTER LAB NET	Date:	4/5/93	Time	4:00
Received by:	[illegible]	Organization:	[illegible]	Date:	4/5/93	Time	4:00
Relinquished by:		Organization:		Date:	/ /	Time	
Received by:	Ron Kargrave	Organization:	KEYSTONE	Date:	4/13/93	Time	3:15

Seal Intact? Yes No N/A

Seal Intact? Yes No N/A

Special Instructions / Remarks: ____

Delivery Method: ☐ In Person ☐ Common Carrier ____ specify ☐ Lab Courier ☐ Other ____ specify

011452

011452

DRY WEIGHT TEST

KEYSTONE LAB-HOUSTON

CLIENT DAMES-MOOR

LAB NO. H93-04101

ANALYST AY

DATE 4-14-93

DASH NO.	I.D. NO.	TARE WT (a)	TARE (b) + WET SX.	TARE (c) + DRY SX.	DIFF. IN WT. OF H_2O LOST(d)	CORRECTION FACTOR (e)	WT. OF SX. USED FOR EXTR. (f)	DRY WT. (g)	DRY WT. FACTOR (h)
002	SC-PW1 (-200) SUP	1.55	5.81	5.74	0.07	0.983			1.02
003	SC-PW2 (-200) SUP	Not enough sample for dry wt.							
004	SC-PW3 (-200) SUP	1.55	5.25	5.21	0.04	0.989			1.01
005	SC-PW4 (-200) SUP	1.57	5.18	5.16	0.02	0.994			1.01
006	SC-PW5 (-200) SUP	1.52	5.67	5.64	0.03	0.992			1.01
007	SC-PW6 (-200) SUP	1.57	5.14	5.08	0.06	0.983			1.02
008	SC-PW7 (-200) SUP	1.57	Not enough sample for dry wt.						
009	SC-PW8 (-200) SUP	Not enough sample for dry wt.							
010	SC-PW9 (-200) SUP	1.55	5.74	5.67	0.07	0.983			1.02
011	SC-PW10 (-200) SUP	1.53	5.46	5.43	0.03	0.992			1.01
012	SC-PW DUP (-200) SUP	1.51	6.23	6.22	0.01	0.997			1.00
Nothing Follows			Nothing Follows					Nothing Follows	

d = (b-a) - (c-a) g = f (c-a)/(b-a) h = 1/g = 1/e e = c-a / b-a

Date Submitted: 4/15/93

Submitted By ERC

Dry Wt. Ext. (Rev. 1/92)

011453

011453

KEYSTONE LAB - HOUSTON
Job Summary Sheet

Produced on 14-APR-1993

PRIORITY

011454

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-04.101
Due Date : 21-APR-1993
Date Rec'd : 14-APR-1993
Project ID :
P.O. Number: 10688

Attention:

Contact: Data Management

Job Description: DAMES&MOORE (RCRA)
Number of samples: 12 Sampled by: CLIENT

Job Comments:
PLEASE ANALYZE FOR PAH.7 DAY T/A.
SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Pnt.	Sample Matrix	Date Sampled
101-001	LAB BLANK	QA_QC	SOIL	12-APR-93
101-002	SC-PW1 (-200)SUP	X	SOIL	12-APR-93
101-003	SC-PW2 (-200)SUP	X	SOIL	12-APR-93
101-004	SC-PW3 (-200)SUP	X	SOIL	12-APR-93
101-005	SC-PW4 (-200)SUP	X	SOIL	12-APR-93
101-006	SC-PW5 (-200)SUP	X	SOIL	12-APR-93
101-007	SC-PW6 (-200)SUP	X	SOIL	12-APR-93
101-008	SC-PW7 (-200)SUP	X	SOIL	12-APR-93
101-009	SC-PW8 (-200)SUP	X	SOIL	12-APR-93
101-010	SC-PW9 (-200)SUP	X	SOIL	12-APR-93
101-011	SC-PW10 (-200)SUP	X	SOIL	12-APR-93
101-012	SC-PW DUP (-200)SUP	X	SOIL	12-APR-93

Analysis ID	Parameter Description	Number of Analyses
DRY_WT	Dry Weight Factor	12
EXT_8270SX	(Soil) Extraction by EPA 8270	12
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil	12

011455

Report
Prepared
for

D a m e s a n d M o o r e

4601 Charlotte Park Drive

Suite 320
Charlotte, N.C. 28217

Attention : BRUCE HICKMAN

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID :
P.O. NUMBER : 18804

WORK ORDER : H93-04.53
DATE RECEIVED : 6-APR-1993

SAMPLE & ANALYSIS SUMMARY

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-04.53-001	LAB BLANK	6-APR-1993	SOIL
H93-04.53-002	SCW1-10 (SD) F	6-APR-1993	SOIL
H93-04.53-003	SCW1-10 (SSD) F	6-APR-1993	SOIL
H93-04.53-004	SCW1-10 (MCD) F	6-APR-1993	SOIL
H93-04.53-005	SCW1-10 (C1/C2) F	6-APR-1993	SOIL

Analysis ID	Parameter Description
DRY_WT	Dry Weight Factor
EXT_8270SX	(Soil) Extraction by EPA 8270
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON DOC. CONT NO:

PROJECT NO.: 18804 SITE: S. CAVALCADE

LAB NO.:H93-04.53

I. RECEIPT

A. DATE: APR. 06, 1993

B. NO. OF SAMPLES: 4 SAMPLES.

C. CLIENT ID NUMBERS: SCW1-10(SD)F
SCW1-10(SSD)F
SCW1-10(MCD)F
SCW1-10(C1/C2)F

D. SAMPLE TYPE: Soils

E. ANALYSIS REQUESTED: cPAH (8270)
Grain Size (D-422)

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: At the request of Dames & Moore (2) data sheets provided per sample in each Work Order. First Organics Analysis Data Sheet contains cPAH follow with Full PAH LISTING.
Quanitation Data sheet will give complete PAH amounts.

I. COMMENTS: The Report for Grain Size by ASTM (D-422) will follow under separate cover in order to expedite the PAH data.
Sample SC-RW-E (Recycled Wash Water) will be reported under Work Order # H93-04.52 with its individual parmeters of request according to SAP.
This particular sample has been listed with the above on the Chain-o-Custody.

According to Contract, all sample data Faxed (4/14/93) as a prelimiary to receival of Data Package.

Robert R Barrientos

Robert R. Barrientos, Project Manager

April 19, 1993

Date

011458

Keystone Lab - Houston
Soil Surrogate Recovery Summary
Keystone Work Order # H93-04.53

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK	78	78	87	86	106	79	70	80
SOW1-10 (SD) F	DL	DL	DL	DL	DL	DL	DL	DL
SOW1-10 (SSD) F	DL	DL	DL	DL	DL	DL	DL	DL
SOW1-10 (MOD) F	DL	DL	DL	DL	DL	DL	DL	DL
SOW1-10 (C1/C2) F	DL	DL	DL	DL	DL	DL	DL	DL

Surrogate Name	QC LIMITS	Surrogate Name	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	22-120	S2 (FBP) = 2-Fluorobiphenyl	30-115
S3 (TPH) = Terphenyl-d14	18-137	S4 (PHL) = Phenol-d5	24-113
S5 (2FP) = 2-Fluorophenol	25-121	S6 (TBP) = 2,4,6-Tribromophenol	19-122
S7 (2CP) = 2-Chlorophenol-d4	20-130**	S8 (DCB) = 1,2-Dichlorobenzene-d4	20-130**

0 out of 8 : outside of QC limits.

* = Values are outside of QC limits ** = Advisory QC Limits NA = Not Applicable
DL = Diluted Out

011458

011459

CHESTER DC # --- - 8

INST ID: 4310 SAMPLE NUMBER: SCW1-10 (SD) F

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930405302 QC REPORT NO.: 04/08/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: ...4/6/93....

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04053C02
DATE EXTRACTED: ...4/7/93.....
DATE ANALYZED: 04/12/93

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	77000	190000
C740	CHRYSENE	77000	220000
C765	BENZO(B)FLUORANTHENE	77000	220000
C770	BENZO(K)FLUORANTHENE	77000 U	
C775	BENZO(A)PYRENE	77000	160000
C780	INDENO(1,2,3-CD)PYRENE	77000	87000
C785	DIBENZO(A,H)ANTHRACENE	77000	27000 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

CHESTER DC # --- - 8

INST ID: 4310 SAMPLE NUMBER: SCW1-10 (SD) F

011460

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930405302 QC REPORT NO.: 04/08/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: ...4/6/93....

SEMIVOLATILES

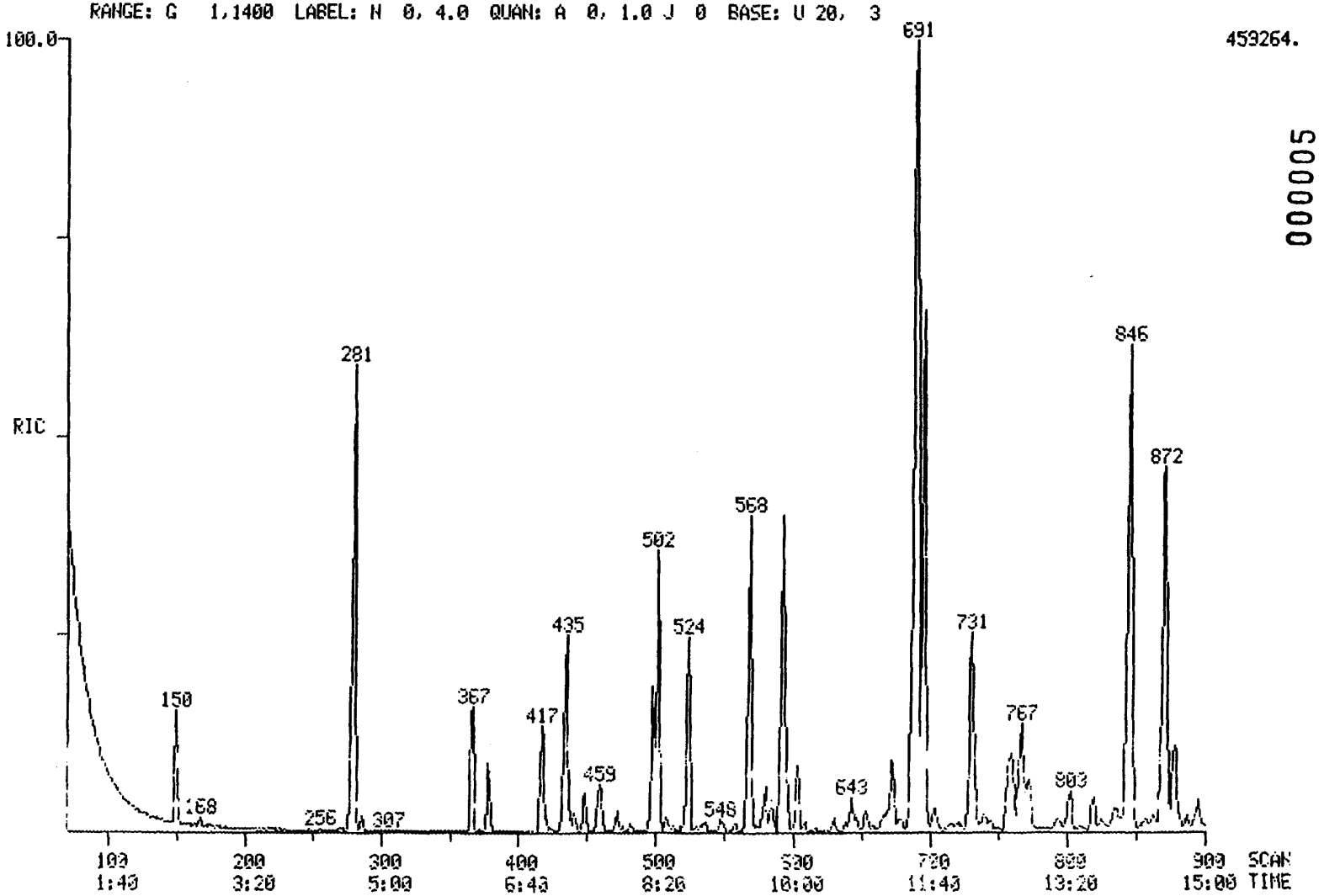
CONCENTRATION: LOW DATAFILE: 9U04053C02
DATE EXTRACTED: ...4/7/93.....
DATE ANALYZED: 04/12/93

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	77000	510000
C540	ACENAPHTHYLENE	77000	11000 J
C550	ACENAPHTHENE	77000	270000
C590	FLUORENE	77000	410000
C640	PHENANTHRENE	77000	780000
C645	ANTHRACENE	77000	410000
C655	FLUORANTHENE	77000	430000
C715	PYRENE	77000	400000
C730	BENZO(A)ANTHRACENE	77000	190000
C740	CHRYSENE	77000	220000
C765	BENZO(B)FLUORANTHENE	77000	220000
C770	BENZO(K)FLUORANTHENE	77000 U	
C775	BENZO(A)PYRENE	77000	160000
C780	INDENO(1,2,3-CD)PYRENE	77000	87000
C785	DIBENZO(A,H)ANTHRACENE	77000	27000 J
C790	BENZO(GHI)PERYLENE	77000	71000 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

RIC
04/12/93 20:23:00
SAMPLE: SCW1-10 (SD) F
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04053C02 #1 SCANS 70 TO 900
CALI: 9U04053C02 #3



CHESTER DC # ---

INST ID: 4310

-14

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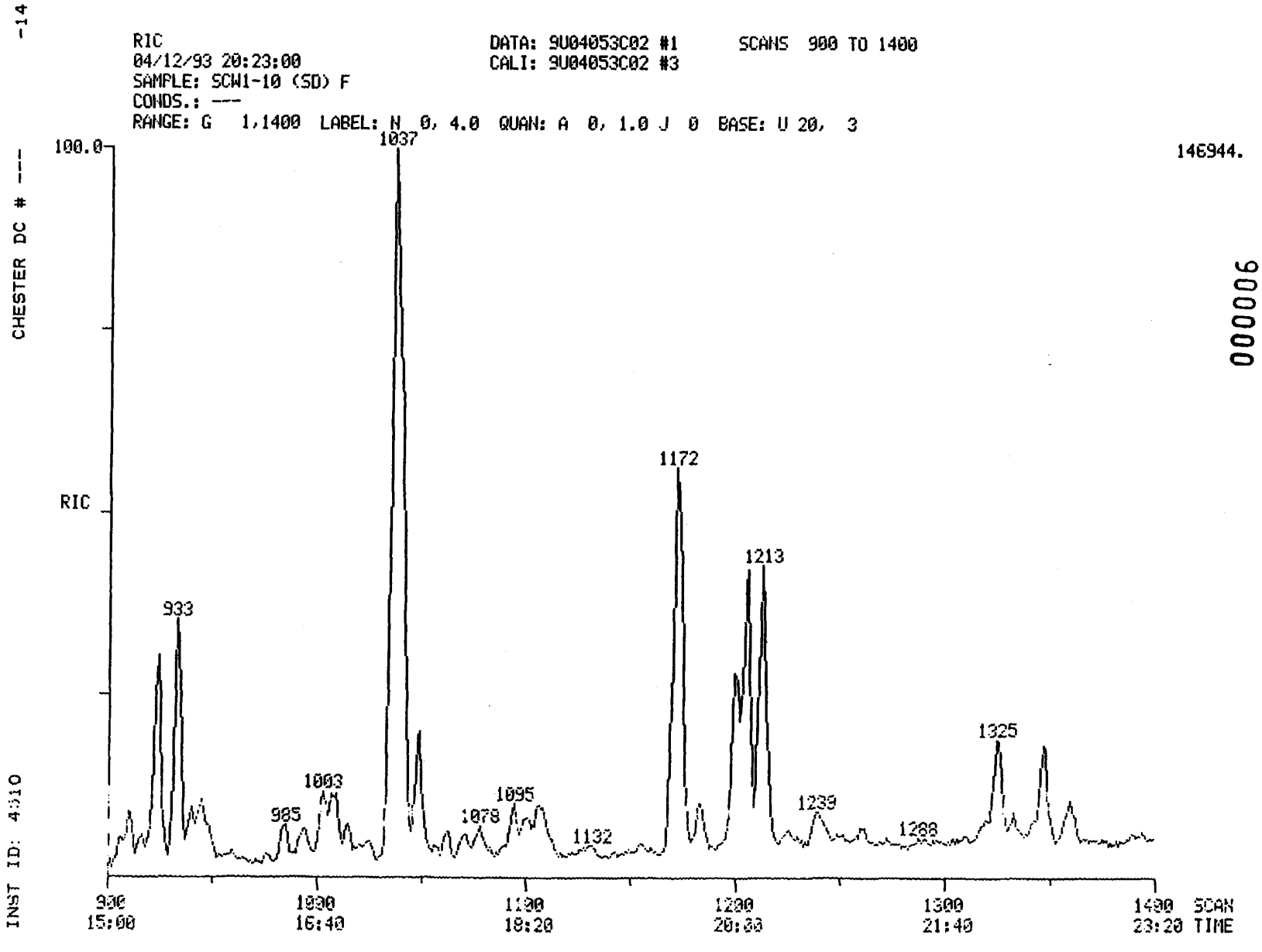
011461

011461



000006

011462

011462

CHESTER DC # ----14

011463

SEMIVOLATILE SOIL REPORT

SAMPLE ID.	SCW1-10 (SD) F		
FILENAME	9U04053C02	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JDD
DATE INJECTED	04/12/93 20:23:00	VERIFIED BY	JDD
CALIB STD DATE	04/08/93	CORR. FACTOR	7700.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	AREA
150	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	154000	UG/KG	1.000	1621
279	CI40	NAPHTHALENE-D8 ** IS2 **		136	154000	UG/KG	1.000	6581
498	CI50	ACENAPHTHENE-D10 ** IS3 **		164	154000	UG/KG	1.000	5257
687	CI60	PHENANTHRENE-D10 ** IS4 **		188	154000	UG/KG	1.000	10113
1038	CI70	CHRYSENE-D12 ** IS5 **		240	154000	UG/KG	1.000	7108
1213	CI75	PERYLENE-D12 ** IS6 **		264	154000	UG/KG	1.000	5690
231	C450	NAPHTHALENE	39B	128	513386	UG/KG	1.007	24156
476	C540	ACENAPHTHYLENE	2B	152	10952	UG/KG	0.956	571
502	C550	ACENAPHTHENE	1B	153	271935	UG/KG	1.008	8644
568	C590	FLUORENE	32B	166	413293	UG/KG	1.141	15899
691	C640	PHENANTHRENE	44B	178	782923	UG/KG	1.006	59724
676	C645	ANTHRACENE	3B	178	412181	UG/KG	1.013	33848
846	C655	FLUORANTHENE	31B	202	426207	UG/KG	1.231	39594
871	C715	PYRENE	45B	202	402606	UG/KG	0.839	29663
1036	C730	BENZO(A)ANTHRACENE	5B	228	188097	UG/KG	0.998	11471
1040	C740	CHRYSENE	18B	228	222506	UG/KG	1.002	11172
1172	C765	BENZO(B)FLUORANTHENE	7B	252	220075	UG/KG	0.966	12031
1205	C775	BENZO(A)PYRENE	6B	252	158646	UG/KG	0.993	6648
1325	C780	INDENO(1,2,3-CD)PYRENE	37B	276	87098	UG/KG	1.092	2529
1332	C785	DIBENZO(A,H)ANTHRACENE	19B	278	27266	UG/KG	1.098	774
1348	C790	BENZO(GHI)PERYLENE	8B	276	70672	UG/KG	1.111	2398

SURROGATES WERE DILUTED OUT

011464

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SCW1-10 (SSD) F

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930405303
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: ....

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/6/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/7/93
DATE ANALYZED: 04/12/93

DATAFILE: 9U04053C03

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	75000	94000
C740	CHRYSENE	75000	96000
C765	BENZO(B)FLUORANTHENE	75000	59000 J
C770	BENZO(K)FLUORANTHENE	75000 U	
C775	BENZO(A)PYRENE	75000 U	
C780	INDENO(1,2,3-CD)PYRENE	75000	45000 J
C785	DIBENZO(A,H)ANTHRACENE	75000	14000 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011465

CHESTER DC # --- - 8

INST ID: 4510 SAMPLE NUMBER: SCW1-10 (SSD) F

ORGANICS ANALYSIS DATA SHEET -

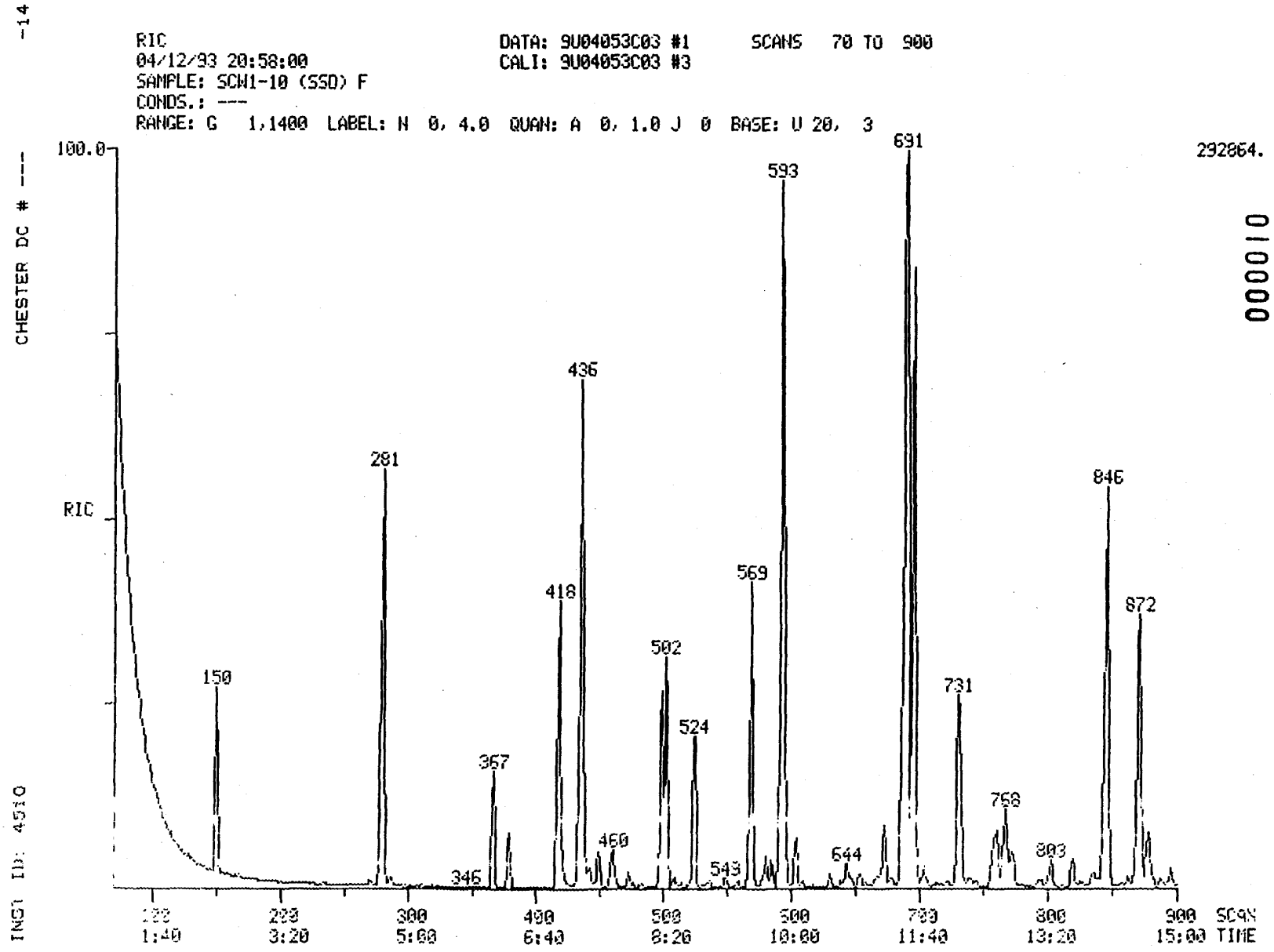
LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930405303 QC REPORT NO.: 04/08/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: DATE SAMPLE RECEIVED: 4/6/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04053C03
DATE EXTRACTED: 4/7/93
DATE ANALYZED: 04/12/93

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	75000	290000
C540	ACENAPHTHYLENE	75000	5500 J
C550	ACENAPHTHENE	75000	160000
C590	FLUORENE	75000	260000
C640	PHENANTHRENE	75000	500000
C645	ANTHRACENE	75000	350000
C655	FLUORANTHENE	75000	230000
C715	PYRENE	75000	210000
C730	BENZO(A)ANTHRACENE	75000	94000
C740	CHRYSENE	75000	96000
C765	BENZO(B)FLUORANTHENE	75000	59000 J
C770	BENZO(K)FLUORANTHENE	75000 U	
C775	BENZO(A)PYRENE	75000 U	
C780	INDENO(1,2,3-CD)PYRENE	75000	45000 J
C785	DIBENZO(A,H)ANTHRACENE	75000	14000 J
C790	BENZO(GHI)PERYLENE	75000	36000 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



000010

011466

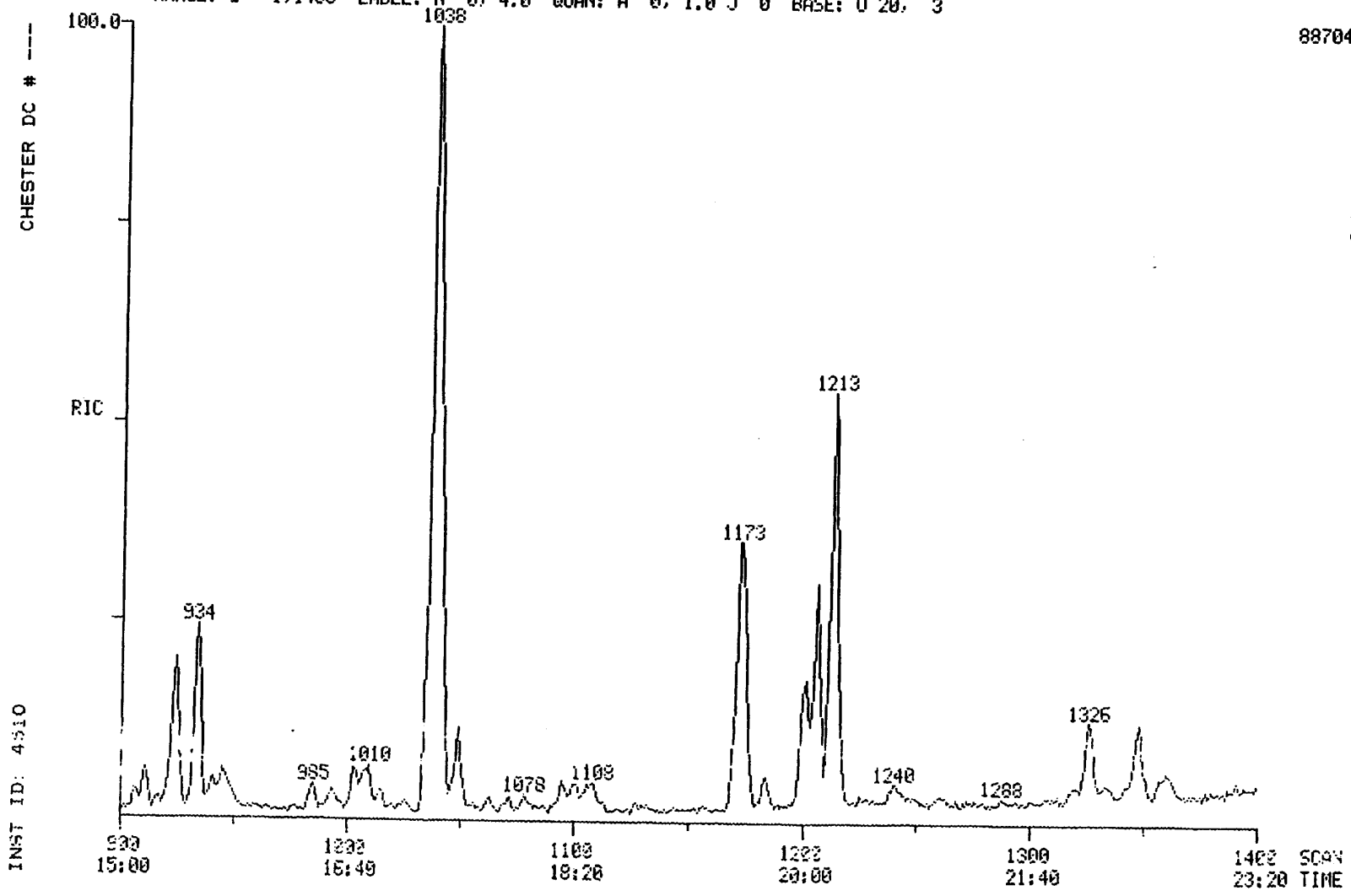
-14

RIC
04/12/93 20:58:00
SAMPLE: SCW1-10 (SSD) F
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04053C03 #1
CALI: 9U04053C03 #3

SCANS 900 TO 1400

88704.



011000

011467

011468

CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID.	SCW1-10 (SSD) F		
FILENAME	9U04053C03	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JDD
DATE INJECTED	04/12/93 20:58:00	VERIFIED BY	JDD
CALIB STD DATE	04/08/93	CORR. FACTOR	7500.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	AREA
150	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	150000	UG/KG	1.000	1894
279	C140	NAPHTHALENE-D8 ** IS2 **		136	150000	UG/KG	1.000	6761
479	C150	ACENAPHTHENE-D10 ** IS3 **		164	150000	UG/KG	1.000	5041
687	C160	PHENANTHRENE-D10 ** IS4 **		188	150000	UG/KG	1.000	9784
1038	C170	CHRYSENE-D12 ** IS5 **		240	150000	UG/KG	1.000	6393
1213	C175	PERYLENE-D12 ** IS6 **		264	150000	UG/KG	1.000	5118
281	C450	NAPHTHALENE	39B	128	291677	UG/KG	1.007	14474
477	C540	ACENAPHTHYLENE	2B	152	5508	UG/KG	0.956	282
502	C550	ACENAPHTHENE	1B	153	163105	UG/KG	1.006	5105
569	C590	FLUORENE	32B	166	261255	UG/KG	1.140	9895
671	C640	PHENANTHRENE	44B	178	499465	UG/KG	1.006	37846
676	C645	ANTHRACENE	3B	178	353123	UG/KG	1.013	28805
846	C655	FLUORANTHENE	31B	202	231781	UG/KG	1.231	21388
872	C715	PYRENE	45B	202	209387	UG/KG	0.840	14245
1037	C730	BENZO(A)ANTHRACENE	5B	228	93733	UG/KG	0.999	5278
1041	C740	CHRYSENE	18B	228	95652	UG/KG	1.003	4434
1206	C765	BENZO(B)FLUORANTHENE	7B	252	59115	UG/KG	0.994	2984
1326	C780	INDENO(1,2,3-CD)PYRENE	37B	276	44923	UG/KG	1.093	1204
1333	C785	DIBENZO(A,H)ANTHRACENE	19B	278	13845	UG/KG	1.099	363
1348	C790	BENZO(GHI)PERYLENE	8B	276	35544	UG/KG	1.111	1113

SURROGATES WERE DILUTED OUT

011468

011469

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SCW1-10 (MCD) F

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930405304
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/6/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/7/93
DATE ANALYZED: 04/12/93

DATAFILE: 9U04053C04

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	87000	130000
C740	CHRYSENE	87000	140000
C765	BENZO(B)FLUORANTHENE	87000	150000
C770	BENZO(K)FLUORANTHENE	87000 U	
C775	BENZO(A)PYRENE	87000	100000
C780	INDENO(1,2,3-CD)PYRENE	87000	68000 J
C785	DIBENZO(A,H)ANTHRACENE	87000	19000 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

CHESTER DC # --- - 8

INST ID: 4510 SAMPLE NUMBER: SCW1-10 (MCD) F

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930405304 GC REPORT NO.: 04/08/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: Ray DATE SAMPLE RECEIVED: 4/6/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04053C04
DATE EXTRACTED: 4/7/93
DATE ANALYZED: 04/12/93

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	87000	450000
C540	ACENAPHTHYLENE	87000	6400 J
C550	ACENAPHTHENE	87000	260000
C590	FLUORENE	87000	400000
C640	PHENANTHRENE	87000	720000
C645	ANTHRACENE	87000	510000
C655	FLUORANTHENE	87000	350000
C715	PYRENE	87000	300000
C730	BENZO(A)ANTHRACENE	87000	130000
C740	CHRYSENE	87000	140000
C765	BENZO(B)FLUORANTHENE	87000	150000
C770	BENZO(K)FLUORANTHENE	87000 U	
C775	BENZO(A)PYRENE	87000	100000
C780	INDENO(1,2,3-CD)PYRENE	87000	68000 J
C785	DIBENZO(A,H)ANTHRACENE	87000	19000 J
C790	BENZO(GHI)PERYLENE	87000	57000 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

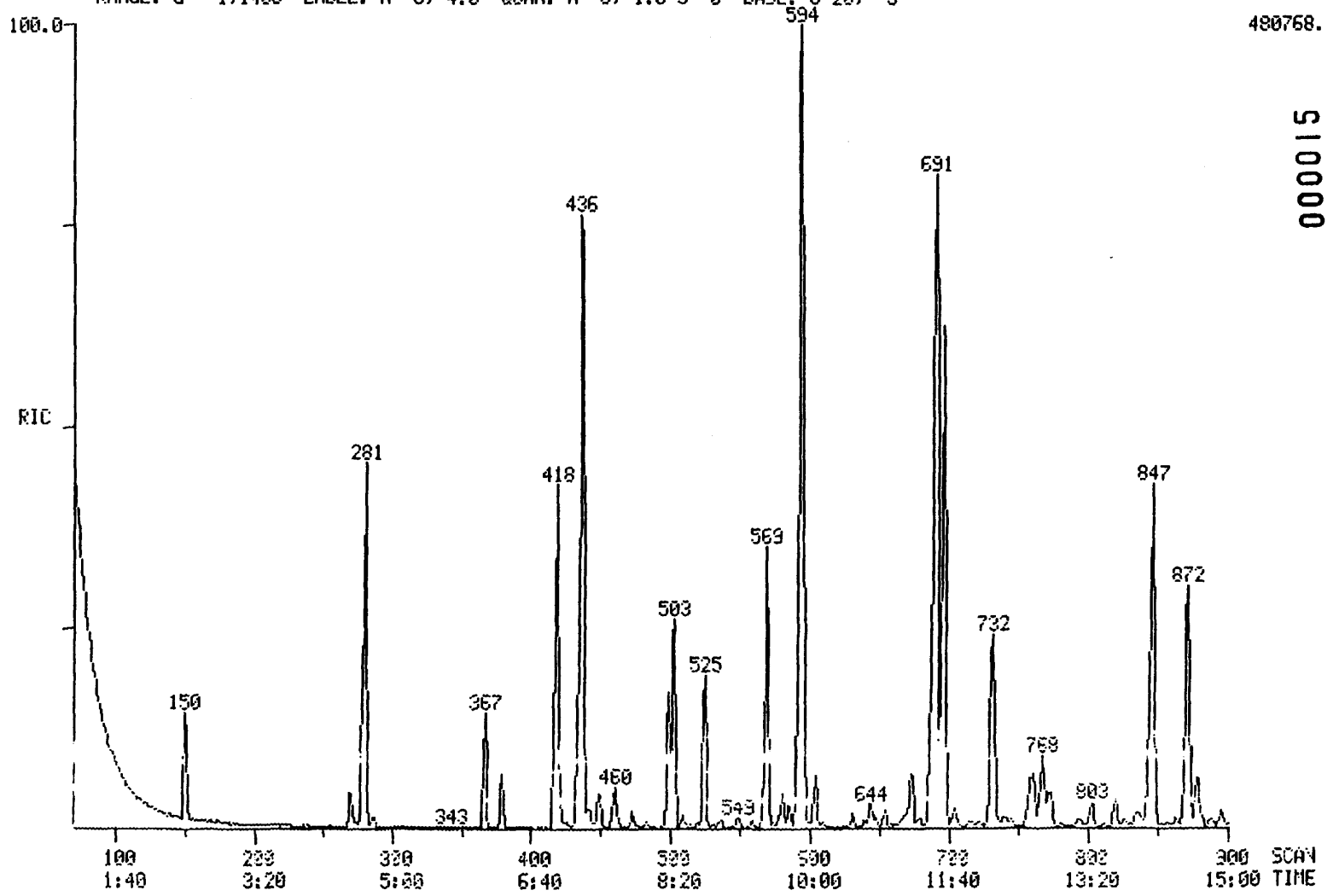
-14

RIC
04/12/93 21:33:00
SAMPLE: SCW1-10 (MCD) F
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04053C04 #1 SCANS 70 TO 900
CALI: 9U04053C04 #3

CHESTER DC # ---

INST ID: 4510



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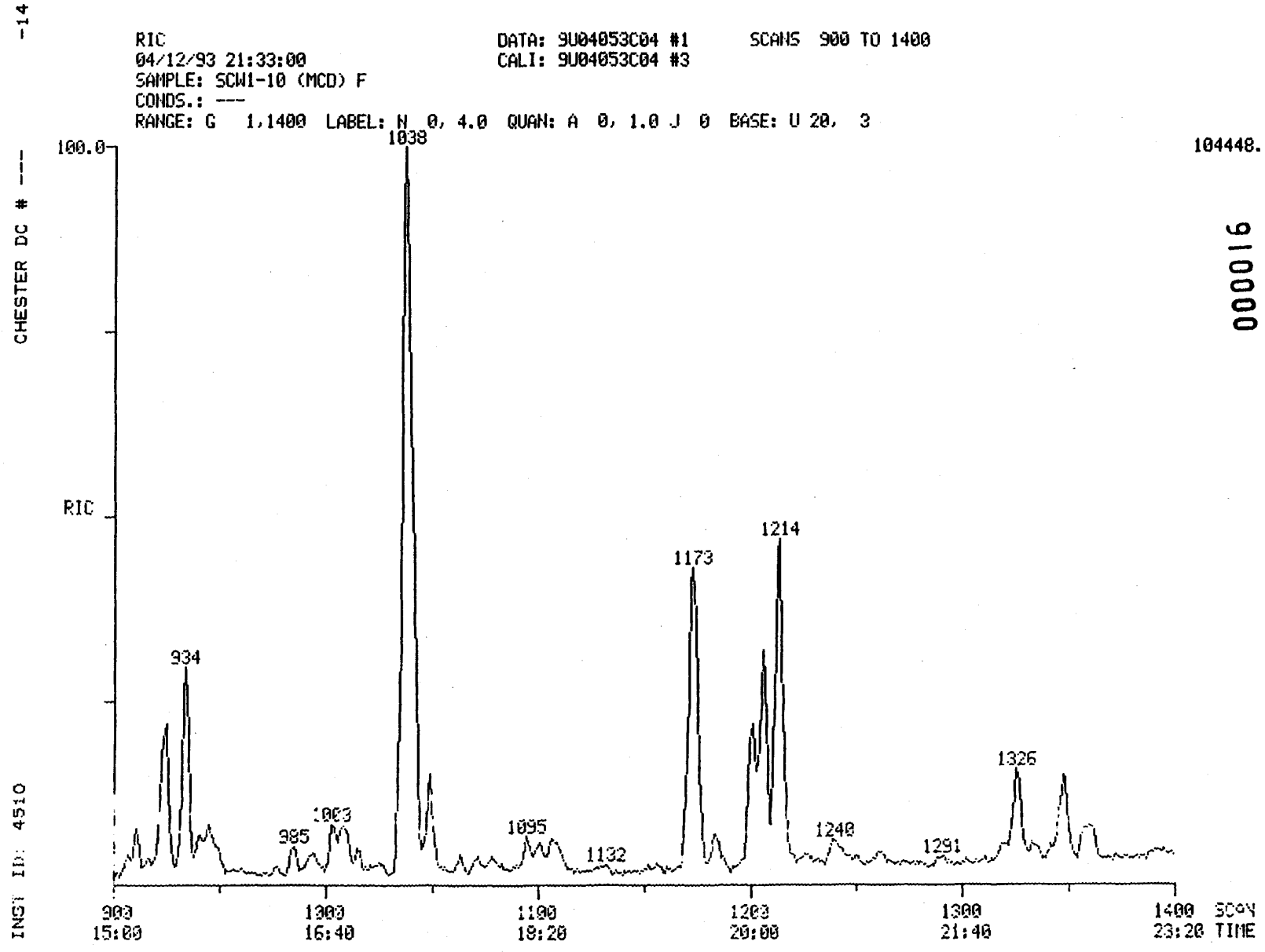
011471



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CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID. SCW1-10 (MCD) F

FILENAME 9U04053C04 INST ID. 4510

CLIENT DAMES&MO ANALYST JDD

DATE INJECTED 04/12/93 21:33:00 VERIFIED BY JDD

CALIB STD DATE 04/08/93 CORR. FACTOR 8700.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT	RRT	AREA
150	C:I30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	174000 UG/KG	1.000	1920
279	C:I40	NAPHTHALENE-D8 ** IS2 **		136	174000 UG/KG	1.000	6881
479	C:I50	ACENAPHTHENE-D10 ** IS3 **		164	174000 UG/KG	1.000	5196
638	C:I60	PHENANTHRENE-D10 ** IS4 **		188	174000 UG/KG	1.000	9982
1038	C:I70	CHRYSENE-D12 ** IS5 **		240	174000 UG/KG	1.000	6788
1213	C:I75	PERYLENE-D12 ** IS6 **		264	174000 UG/KG	1.000	5503
281	C:450	NAPHTHALENE	39B	128	453752 UG/KG	1.007	19755
477	C:540	ACENAPHTHYLENE	2B	152	6375 UG/KG	0.956	290
503	C:550	ACENAPHTHENE	1B	153	257371 UG/KG	1.008	7157
569	C:590	FLUORENE	32B	166	396398 UG/KG	1.140	13339
671	C:640	PHENANTHRENE	44B	178	724469 UG/KG	1.004	48279
697	C:645	ANTHRACENE	3B	178	513141 UG/KG	1.013	36813
847	C:655	FLUORANTHENE	31B	202	350764 UG/KG	1.231	28467
872	C:715	PYRENE	45B	202	301664 UG/KG	0.840	18785
1037	C:730	BENZO(A)ANTHRACENE	5B	228	129635 UG/KG	0.999	6681
1041	C:740	CHRYSENE	18B	228	138957 UG/KG	1.003	5897
1172	C:765	BENZO(B)FLUORANTHENE	7B	252	148498 UG/KG	0.966	6948
1206	C:775	BENZO(A)PYRENE	6B	252	103198 UG/KG	0.994	3701
1326	C:780	INDENO(1,2,3-CD)PYRENE	37B	276	67987 UG/KG	1.093	1689
1333	C:785	DIBENZO(A,H)ANTHRACENE	19B	278	18944 UG/KG	1.099	460
1348	C:790	BENZO(GHI)PERYLENE	8B	276	57269 UG/KG	1.111	1663

SURROGATES WERE DILUTED OUT

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INST ID: 4510 SAMPLE NUMBER: SCW1-10 (C1/C2) F

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930405305 QC REPORT NO.: 04/08/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: RCC DATE SAMPLE RECEIVED: 4/6/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04053C05
DATE EXTRACTED: 4/7/93
DATE ANALYZED: 04/12/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	110	140
C740	CHRYSENE	110	150
C765	BENZO(B)FLUORANTHENE	110	130
C770	BENZO(K)FLUORANTHENE	110 U	
C775	BENZO(A)PYRENE	110	90 J
C780	INDENO(1,2,3-CD)PYRENE	110	48 J
C785	DIBENZO(A,H)ANTHRACENE	110	13 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011475

INST ID: 4510 SAMPLE NUMBER: SCW1-10 (C1/C2) F

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930405305 QC REPORT NO.: 04/08/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/6/93

SEMIVOLATILES

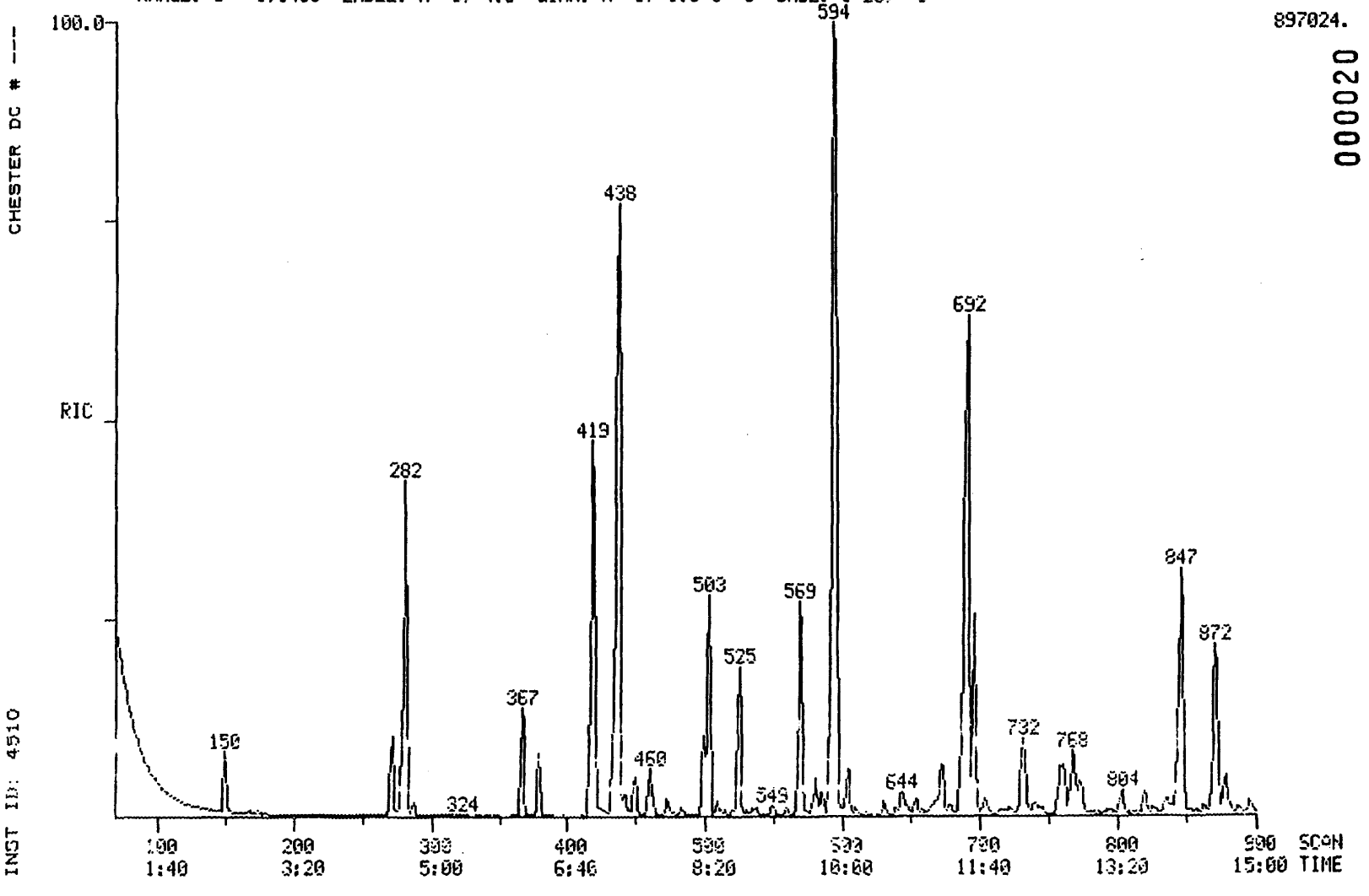
CONCENTRATION: LOW DATAFILE: 9U04053C05
DATE EXTRACTED: 4/7/93
DATE ANALYZED: 04/12/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	110	880
C540	ACENAPHTHYLENE	110	17 J
C550	ACENAPHTHENE	110	540
C590	FLUORENE	110	680
C640	PHENANTHRENE	110	1200
C645	ANTHRACENE	110	420
C655	FLUORANTHENE	110	540
C715	PYRENE	110	460
C730	BENZO(A)ANTHRACENE	110	140
C740	CHRYSENE	110	150
C765	BENZO(B)FLUORANTHENE	110	130
C770	BENZO(K)FLUORANTHENE	110 U	
C775	BENZO(A)PYRENE	110	90 J
C780	INDENO(1,2,3-CD)PYRENE	110	48 J
C785	DIBENZO(A,H)ANTHRACENE	110	13 J
C790	BENZO(GHI)PERYLENE	110	41 J

U : UNDETECTED AT THE LISTED DETECTION LIMIT
J : COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

RIC
04/12/93 22:08:00
SAMPLE: SCW1-10 (C1/C2) F
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04053C05 #1 SCANS 70 TO 900
CALI: 9U04053C05 #3



CHESTER DC # ---
INST ID: 4510
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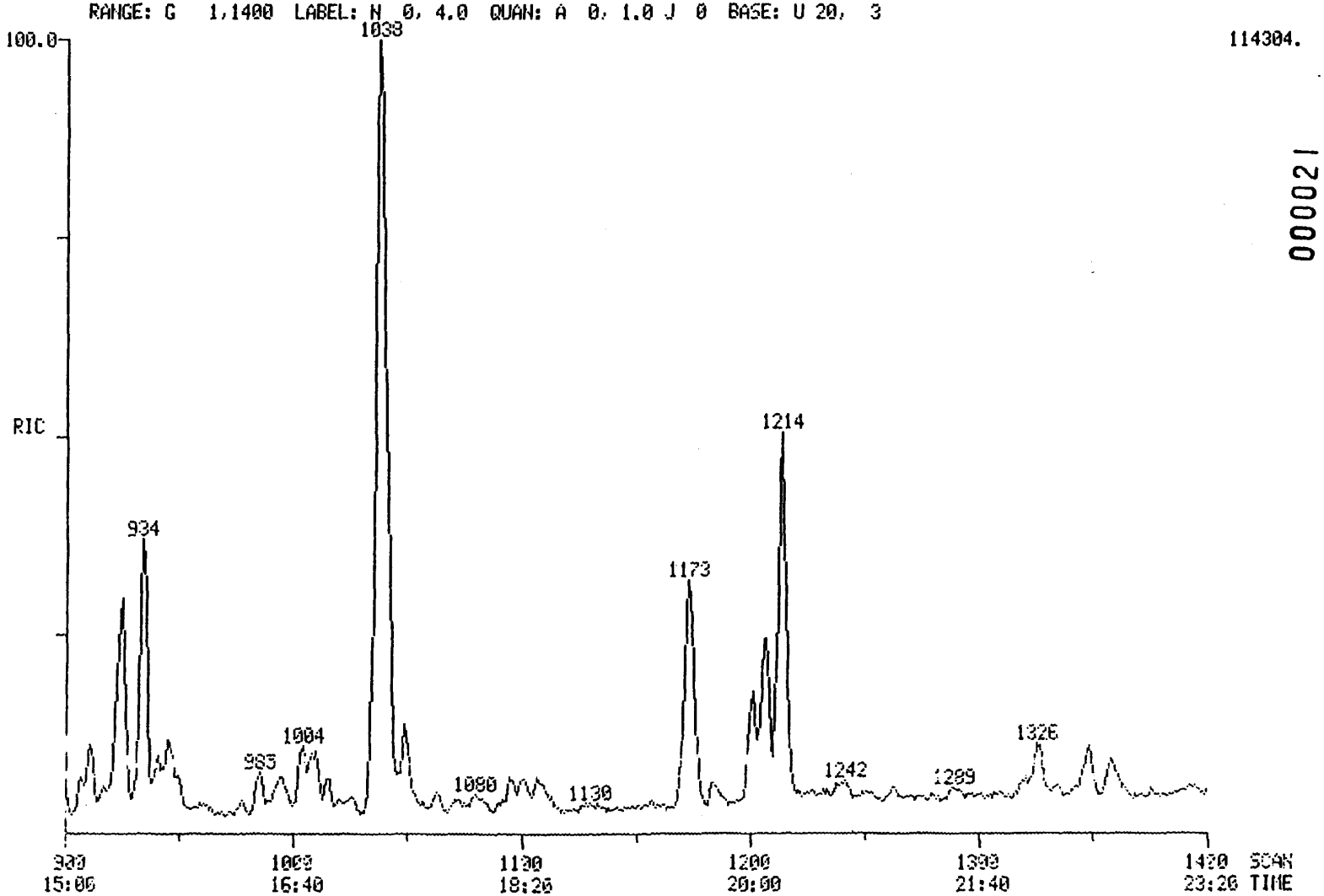
RIC
04/12/93 22:08:00
SAMPLE: SCW1-10 (C1/C2) F
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04053C05 #1 SCANS 900 TO 1400
CALI: 9U04053C05 #3

CHESTER DC # ---

INST ID: 4910



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SAMPLE ID. SCW1-10 (C1/C2) F

FILE NAME 9U04053C05 INST ID. 4510

CLIENT DAMES&MO ANALYST JDD

DATE INJECTED 04/12/93 22:08:00 VERIFIED BY JDD

CALIB STD DATE 04/08/93 CORR. FACTOR 11.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	AREA
150	C:I30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	220	MG/KG	1.000	2091
279	C:I40	NAPHTHALENE-D8 ** IS2 **		136	220	MG/KG	1.000	7619
479	C:I50	ACENAPHTHENE-D10 ** IS3 **		164	220	MG/KG	1.000	5976
688	C:I60	PHENANTHRENE-D10 ** IS4 **		188	220	MG/KG	1.000	11037
1038	C:I70	CHRYSENE-D12 ** IS5 **		240	220	MG/KG	1.000	7706
1213	C:I75	PERYLENE-D12 ** IS6 **		264	220	MG/KG	1.000	6016
282	C:450	NAPHTHALENE	39B	128	880	MG/KG	1.011	33544
477	C:540	ACENAPHTHYLENE	2B	152	17	MG/KG	0.956	714
503	C:550	ACENAPHTHENE	1B	153	536	MG/KG	1.008	13550
569	C:590	FLUORENE	32B	166	681	MG/KG	1.140	20849
672	C:640	PHENANTHRENE	44B	178	1202	MG/KG	1.006	70042
696	C:645	ANTHRACENE	3B	178	419	MG/KG	1.012	26306
847	C:655	FLUORANTHENE	31B	202	535	MG/KG	1.231	37979
872	C:715	PYRENE	45B	202	458	MG/KG	0.840	25629
1037	C:730	BENZO(A)ANTHRACENE	5B	228	139	MG/KG	0.999	6440
1041	C:740	CHRYSENE	18B	228	155	MG/KG	1.003	5902
1173	C:765	BENZO(B)FLUORANTHENE	7B	252	128	MG/KG	0.967	5190
1206	C:775	BENZO(A)PYRENE	6B	252	90	MG/KG	0.994	2790
1326	C:780	INDENO(1,2,3-CD)PYRENE	37B	276	48	MG/KG	1.093	1028
1333	C:785	DIBENZO(A,H)ANTHRACENE	19B	278	13	MG/KG	1.099	276
1348	C:790	BENZO(GHI)PERYLENE	8B	276	41	MG/KG	1.111	1024

SURROGATES WERE DILUTED OUT

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CALIBRATIONS

CHESTER LABNET-HOUSTON

011480

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. --- CONTRACT LAB: KEYSTONE

CONTRACT NO. --- INSTRUMENT IDENTIFIER: 4510

CALIBRATION DATE: 04/08/93

STANDARD FILE: FS0412C02

DATE: 04/12/93 TIME: 11:59

MAXIMUM % D FOR CCC IS 20

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.764	1.902	7.796
C325	BIS(2-CHLOROETHYL)ETHE	1.783	1.508	-15.421
C330	2-CHLOROPHENOL	1.386	1.446	4.349
C335	1,3-DICHLOROBENZENE	1.503	1.550	3.147
C340	1,4-DICHLOROBENZENE	1.562	1.585	1.423
C345	BENZYL ALCOHOL	0.666	0.880	32.118
C350	1,2-DICHLOROBENZENE	1.429	1.413	-1.099
C355	2-METHYLPHENOL	1.522	1.648	8.308
C357	2,2'-OXYBIS(1-CHLOROPR	2.791	2.682	-3.918
C365	4-METHYLPHENOL	1.593	1.643	3.159
C370	N-NITROSODIPROPYLAMINE	1.410	1.489	5.582
C375	HEXACHLOROETHANE	0.613	0.616	0.398
C410	NITROBENZENE	0.411	0.430	4.748
C415	ISOPHORONE	0.799	0.833	4.271
C420	2-NITROPHENOL	0.218	0.212	-2.449
C425	2,4-DIMETHYLPHENOL	0.321	0.331	2.968
C430	BENZOIC ACID	0.223	0.261	16.954
C435	BIS(2-CHLOROETHOXY)MET	0.505	0.491	-2.947
C440	2,4-DICHLOROPHENOL	0.301	0.313	4.161
C445	1,2,4-TRICHLOROBENZENE	0.325	0.314	-3.440
C450	NAPHTHALENE	1.111	1.101	-0.878
C455	4-CHLOROANILINE	0.385	0.452	17.237
C460	HEXACHLOROBUTADIENE	0.142	0.133	-6.489
C465	P-CHLORO-M-CRESOL	0.296	0.307	3.623
C470	2-METHYLNAPHTHALENE	0.834	0.831	-0.315
C510	HEXACHLOROCYCLOPENTADI	0.255	0.247	-3.002
C515	2,4,6-TRICHLOROPHENOL	0.306	0.313	2.391
C520	2,4,5-TRICHLOROPHENOL	0.349	0.388	11.010
C525	2-CHLORONAPHTHALENE	1.074	1.100	2.506
C530	2-NITROANILINE	0.384	0.448	16.764
C535	DIMETHYL PHTHALATE	1.216	1.236	1.668
C540	ACENAPHTHYLENE	1.611	1.528	-5.144
C545	3-NITROANILINE	0.321	0.337	4.698
C550	ACENAPHTHENE	0.908	0.931	2.565
C555	2,4-DINITROPHENOL	0.154	0.156	1.633
C560	4-NITROPHENOL	0.085	0.104	22.396
C565	DIBENZOFURAN	1.526	1.509	-1.147
C570	2,4-DINITROTOLUENE	0.338	0.332	-1.882
C573	2,6-DINITROTOLUENE	0.341	0.379	11.175
C580	DIETHYL PHTHALATE	1.136	1.050	-7.642
C585	4-CHLOROPHENYL PHENYL	0.620	0.570	-8.012
C590	FLUORENE	1.174	1.127	-4.024
C595	4-NITROANILINE	0.298	0.300	0.616
C610	4,6-DINITRO-2-METHYLPH	0.154	0.146	-5.071
C615	N-NITROSODIPHENYLAMINE	0.691	0.640	-7.354
C625	4-BROMOPHENYL PHENYL E	0.217	0.191	-11.866
C630	HEXACHLOROBENZENE	0.198	0.193	-2.566
C635	PENTACHLOROPHENOL	0.127	0.127	0.463
C640	PHENANTHRENE	1.212	1.162	-4.140
C645	ANTHRACENE	1.273	1.250	-1.797
C650	DI-N-BUTYL PHTHALATE	1.658	1.692	2.029

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C715	PYRENE	1.691	1.596	-5.623
C720	BUTYL BENZYL PHTHALATE	0.924	0.824	-10.876
C725	3,3'-DICHLOROBENZIDINE	0.420	0.390	-7.180
C730	BENZO(A)ANTHRACENE	1.399	1.321	-5.582
C745	BIS(2-ETHYLHEXYL)PHTHA	1.469	1.254	-14.635
C740	CHRYSENE	1.096	1.088	-0.726
C760	DI-N-OCTYL PHTHALATE	2.871	2.471	-13.934
C765	BENZO(B)FLUORANTHENE	1.573	1.479	-5.920
C770	BENZO(K)FLUORANTHENE	1.021	1.053	3.124
C775	BENZO(A)PYRENE	1.138	1.134	-0.381
C780	INDENO(1,2,3-CD)PYRENE	0.790	0.786	-0.469
C785	DIBENZO(A,H)ANTHRACENE	0.784	0.768	-1.931
C790	BENZO(GHI)PERYLENE	0.877	0.918	4.725
C310	N-NITROSODIMETHYLAMINE	1.522	0.994	-34.640
C620	1,2-DIPHENYL-HYDRAZINE	1.081	1.039	-3.870
CS70	2-CHLOROPHENOL-D4 ** S	1.755	1.927	9.837
CS75	1,2-DICHLOROBENZENE-D4	0.852	0.870	2.174
C647	CARBAZOLE	1.184	1.241	4.799
CS50	2-FLUOROPHENOL ** SU1	1.283	1.480	15.348
CS45	PHENOL-D5 ** SU2 **	1.908	2.168	13.590
CS55	2,4,6-TRIBROMOPHENOL	0.127	0.133	5.096
CS20	NITROBENZENE-D5 ** SU3	0.389	0.440	13.024
CS25	2-FLUOROBIPHENYL ** SU	1.127	1.191	5.680
CS30	TERPHENYL-D14 ** SU6	1.329	1.267	-4.667
BENZENETHIOL				
METHYL CHRYSENE				
QUINOLINE				
C720	1-METHYLNAPHTHALENE			
7,12-DIMETHYLBENZ(A)ANTHRACE				
DIBENZ(A,H)ACRIDINE				
3+4-METHYLPHENOL				
INDENE				
A950	PYRIDINE			
A953	2,6-DICHLOROPHENOL			
A987	2,5-DICHLOROPHENOL			
A988	3,4-DICHLOROPHENOL			
A989	2,3-DICHLOROPHENOL			
A990	3,5-DICHLOROPHENOL			
A971	1,3,5-TRICHLOROBENZENE			
A972	1,2,3-TRICHLOROBENZENE			

011482

CHESTER DC # ----17

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4510

LAB ID. FS0412C02

CLIENT CHESTER ANALYST JDD

DATE INJECTED 04/12/93 11:59:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	150	40	20763	1.000	0.99
CI40	NAPHTHALENE-D8 ** IS2 **	136	279	40	78054	1.000	0.99
CI50	ACENAPHTHENE-D10 ** IS3 **	164	498	40	47261	1.000	0.99
CI60	PHENANTHRENE-D10 ** IS4 **	188	686	40	68610	1.000	0.99
CI70	CHRYSENE-D12 ** IS5 **	240	1037	40	62365	1.000	0.99
CI75	PERYLENE-D12 ** IS6 **	264	1211	40	59675	1.000	0.99
CS50	2-FLUOROPHENOL ** SU1 **	112	77	50	38405	0.513	1.48
CS45	PHENOL-D5 ** SU2 **	99	148	50	56264	0.987	2.16
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	605	50	7882	1.215	0.13
CS20	NITROBENZENE-D5 ** SU3 **	82	206	50	42894	0.738	0.44
CS25	2-FLUOROBIPHENYL ** SU4 **	172	424	50	70379	0.851	1.191
CS30	TERPHENYL-D14 ** SU6 **	244	916	50	98786	0.883	1.267
C315	PHENOL	94	149	50	49363	0.993	1.902
C325	BIS(2-CHLOROETHYL)ETHER	93	139	50	39129	0.927	1.50
C330	2-CHLOROPHENOL	128	141	50	37524	0.940	1.44
C335	1,3-DICHLOROBENZENE	146	146	50	40228	0.973	1.55
C340	1,4-DICHLOROBENZENE	146	151	50	41124	1.007	1.58
C345	BENZYL ALCOHOL	108	175	50	22833	1.167	0.88
C350	1,2-DICHLOROBENZENE	146	167	50	36682	1.113	1.41
C355	2-METHYLPHENOL	108	202	50	42772	1.347	1.64
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	189	50	69609	1.260	2.68
C365	4-METHYLPHENOL	108	219	50	42652	1.460	1.64
C370	N-NITROSODIPROPYLAMINE	70	205	50	38633	1.367	1.489
C375	HEXACHLOROETHANE	117	194	50	15980	1.293	0.61
C410	NITROBENZENE	77	208	50	41988	0.746	0.43
C415	ISOPHORONE	82	237	50	81258	0.849	0.833
C420	2-NITROPHENOL	139	243	50	20707	0.871	0.212
C425	2,4-DIMETHYLPHENOL	107	272	50	32299	0.975	0.331
C430	BENZOIC ACID	122	311	50	25452	1.115	0.261
C435	BIS(2-CHLOROETHOXY)METHANE	93	274	50	47859	0.982	0.491
C440	2,4-DICHLOROPHENOL	162	281	50	30552	1.007	0.313
C445	1,2,4-TRICHLOROBENZENE	180	277	50	30595	0.993	0.314
C450	NAPHTHALENE	128	281	50	107416	1.007	1.101
C455	4-CHLOROANILINE	127	302	50	44052	1.082	0.452
C460	HEXACHLOROBUTADIENE	225	311	50	12971	1.115	0.133
C465	P-CHLORO-M-CRESOL	107	388	50	29939	1.391	0.307
C470	2-METHYLNAPHTHALENE	142	366	50	81108	1.312	0.831
C510	HEXACHLOROCYCLOPENTADIENE	237	399	50	14620	0.801	0.247
C515	2,4,6-TRICHLOROPHENOL	196	418	50	18502	0.839	0.313
C520	2,4,5-TRICHLOROPHENOL	196	430	50	22907	0.863	0.388
C525	2-CHLORONAPHTHALENE	162	425	50	65013	0.853	1.100
C530	2-NITROANILINE	65	456	50	26468	0.916	0.448
C535	DIMETHYL PHTHALATE	163	493	50	73027	0.990	1.236
C540	ACENAPHTHYLENE	152	476	50	90269	0.956	1.528
C545	3-NITROANILINE	138	511	50	19881	1.026	0.337
C550	ACENAPHTHENE	153	502	50	55013	1.008	0.931

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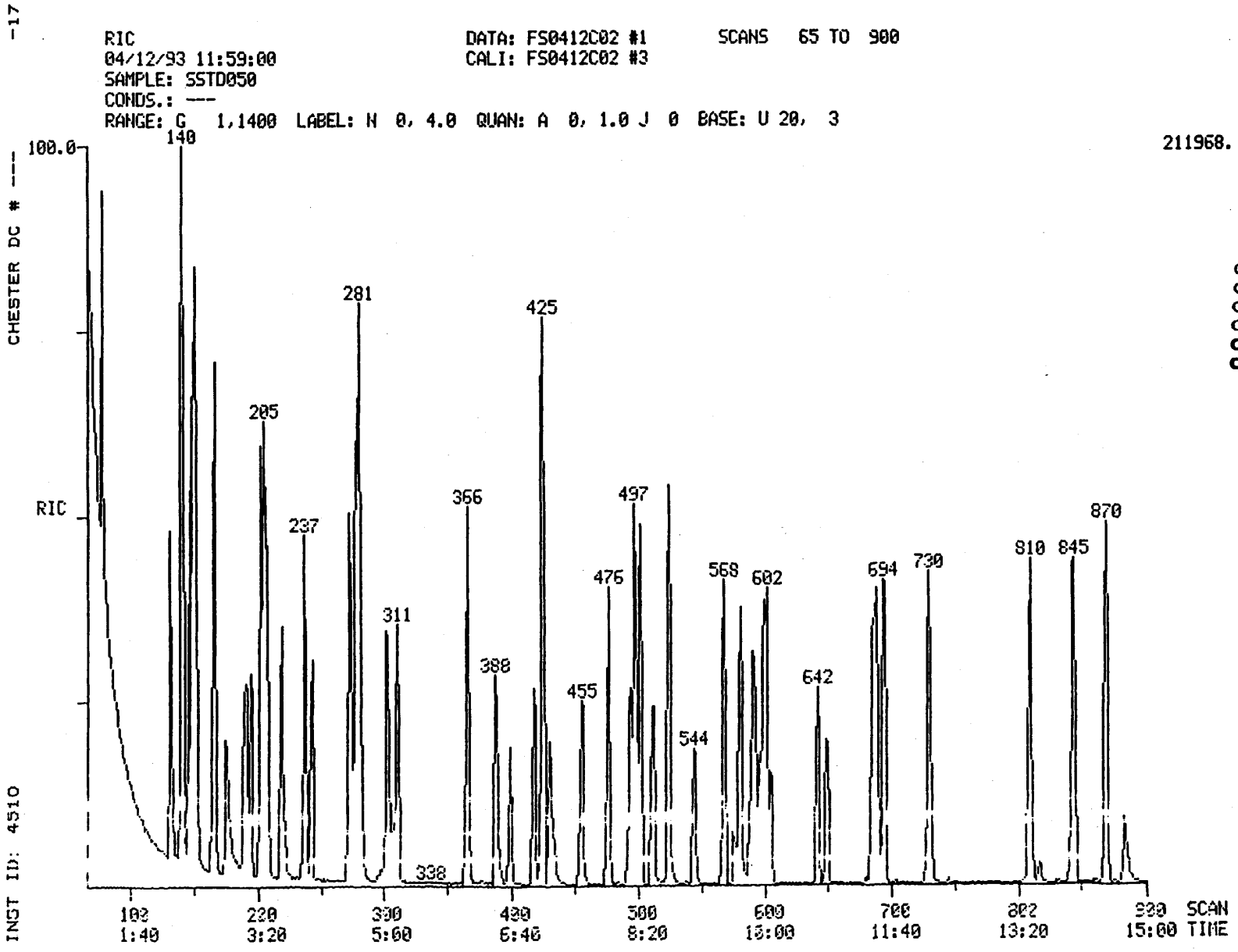
SV STANDARD REPORT PAGE 2

DATAFILE FS0412C02

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	184	524	50	9245	1.052	0.15
C560	4-NITROPHENOL	109	575	50	6126	1.155	0.10
C565	DIBENZOFURAN	168	524	50	89143	1.052	1.50
C570	2,4-DINITROTOLUENE	165	544	50	19606	1.092	0.33
C543	2,6-DINITROTOLUENE	165	497	50	22376	0.998	0.37
C580	DIETHYL PHTHALATE	149	591	50	62001	1.187	1.05
C585	4-CHLOROPHENYL PHENYL ETHER	204	581	50	33669	1.167	0.57
C590	FLUORENE	166	568	50	66572	1.141	1.12
C595	4-NITROANILINE	138	593	50	17697	1.191	0.30
C610	4,6-DINITRO-2-METHYLPHENOL	198	596	50	12532	0.869	0.14
C615	N-NITROSODIPHENYLAMINE	169	602	50	54928	0.878	0.64
C625	4-BROMOPHENYL PHENYL ETHER	248	642	50	16397	0.936	0.19
C630	HEXACHLOROBENZENE	284	649	50	16522	0.946	0.19
C635	PENTACHLOROPHENOL	266	684	50	10923	0.997	0.12
C640	PHENANTHRENE	178	689	50	99622	1.004	1.16
C645	ANTHRACENE	178	694	50	107246	1.012	1.25
C650	DI-N-BUTYL PHTHALATE	149	810	50	145116	1.181	1.69
C655	FLUORANTHENE	202	845	50	121322	1.232	1.41
C715	PYRENE	202	870	50	124440	0.839	1.59
C720	BUTYL BENZYL PHTHALATE	149	1004	50	64217	0.968	0.82
C725	3,3'-DICHLOROBENZIDINE	252	1051	50	30376	1.014	0.39
C730	BENZO(A)ANTHRACENE	228	1035	50	103000	0.998	1.32
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1099	50	97761	1.060	1.25
C740	CHRYSENE	228	1040	50	84804	1.003	1.08
C760	DI-N-OCTYL PHTHALATE	149	1178	50	184343	0.973	2.47
C765	BENZO(B)FLUORANTHENE	252	1171	50	110358	0.967	1.47
C770	BENZO(K)FLUORANTHENE	252	1173	50	78528	0.969	1.05
C775	BENZO(A)PYRENE	252	1204	50	84600	0.994	1.13
C780	INDENO(1,2,3-CD)PYRENE	276	1324	50	58616	1.093	0.78
C785	DIBENZO(A,H)ANTHRACENE	278	1331	50	57317	1.099	0.76
C790	BENZO(GHI)PERYLENE	276	1346	50	68498	1.111	0.91
C620	1,2-DIPHENYL-HYDRAZINE						



000028

011484

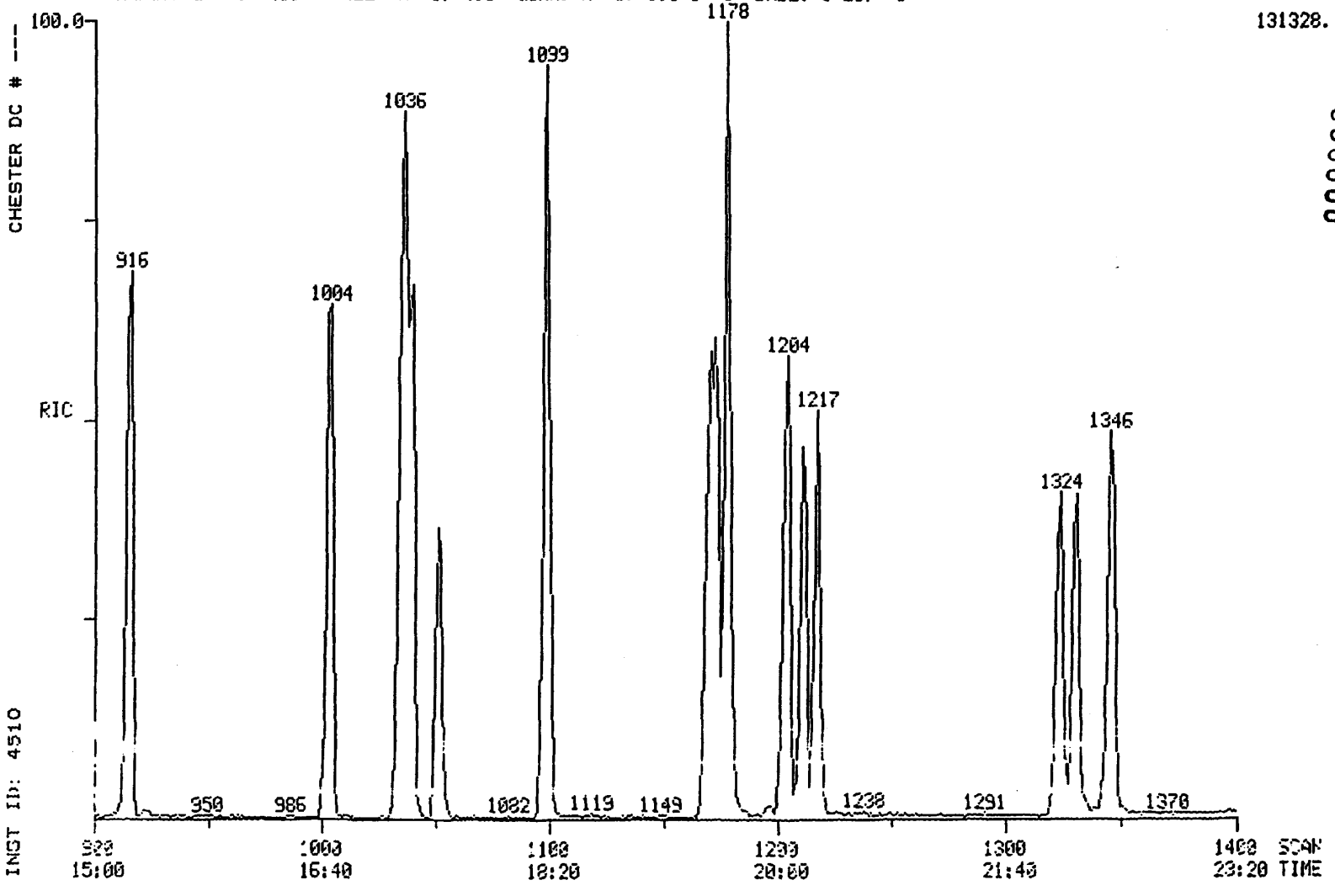
011484

-17

RIC
04/12/93 11:59:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0412C02 #1
CALI: FS0412C02 #3

SCANS 900 TO 1400



000029

011485

011486

Quantitation Report File: FS0412C02

Data: FS0412C02.TI
04/12/93 11:59:00
Sample: SSTD050
Conds.: ---
Formula: 04/08/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL ** SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

011487

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	150	2:30	1	1.000	A BB	20763.	40.000 UG/L	0.99
2	136	279	4:39	2	1.000	A BB	78054.	40.000 UG/L	0.99
3	164	498	8:18	3	1.000	M XX	47261.	40.000 UG/L	0.99
4	188	686	11:26	4	1.000	A BB	68610.	40.000 UG/L	0.99
5	240	1037	17:17	5	1.000	A BB	62365.	40.000 UG/L	0.99
6	264	1211	20:11	6	1.000	A BB	59675.	40.000 UG/L	0.99
7	112	77	1:17	1	0.513	A BB	38405.	50.000 UG/L	1.24
8	99	148	2:28	1	0.987	A BB	56264.	50.000 UG/L	1.24
9	330	605	10:05	3	1.215	A BB	7882.	50.000 UG/L	1.24
10	82	206	3:26	2	0.738	A BB	42894.	50.000 UG/L	1.24
11	172	424	7:04	3	0.851	A BB	70379.	50.000 UG/L	1.24
12	244	916	15:16	5	0.883	A BB	98786.	50.000 UG/L	1.24
13	94	149	2:29	1	0.993	A BB	49363.	50.000 UG/L	1.24
14	93	139	2:19	1	0.927	A VB	39129.	50.000 UG/L	1.24
15	128	141	2:21	1	0.940	A BB	37524.	50.000 UG/L	1.24
16	146	146	2:26	1	0.973	A BV	40228.	50.000 UG/L	1.24
17	146	151	2:31	1	1.007	A VB	41124.	50.000 UG/L	1.24
18	108	175	2:55	1	1.167	A BB	22833.	50.000 UG/L	1.24
19	146	167	2:47	1	1.113	A BB	36682.	50.000 UG/L	1.24
20	108	202	3:22	1	1.347	A BB	42772.	50.000 UG/L	1.24
21	45	189	3:09	1	1.260	A BB	69609.	50.000 UG/L	1.24
22	108	219	3:39	1	1.460	A BB	42652.	50.000 UG/L	1.24
23	70	205	3:25	1	1.367	A BB	38633.	50.000 UG/L	1.24
24	117	194	3:14	1	1.293	A BB	15980.	50.000 UG/L	1.24
25	77	208	3:28	2	0.746	A VB	41988.	50.000 UG/L	1.24
26	82	237	3:57	2	0.849	A BB	81258.	50.000 UG/L	1.24
27	139	243	4:03	2	0.871	A BB	20707.	50.000 UG/L	1.24
28	107	272	4:32	2	0.975	A BB	32299.	50.000 UG/L	1.24
29	122	311	5:11	2	1.115	A BB	25452.	50.000 UG/L	1.24
30	93	274	4:34	2	0.982	A BB	47859.	50.000 UG/L	1.24
31	162	281	4:41	2	1.007	A BB	30552.	50.000 UG/L	1.24
32	180	277	4:37	2	0.993	A BB	30595.	50.000 UG/L	1.24
33	128	281	4:41	2	1.007	A BB	107416.	50.000 UG/L	1.24
34	127	302	5:02	2	1.082	A BB	44052.	50.000 UG/L	1.24
35	225	311	5:11	2	1.115	A BB	12971.	50.000 UG/L	1.24
36	107	388	6:28	2	1.391	A BB	29939.	50.000 UG/L	1.24
37	142	366	6:06	2	1.312	A BB	81108.	50.000 UG/L	1.24
38	237	399	6:39	3	0.801	A BB	14620.	50.000 UG/L	1.24
39	196	418	6:58	3	0.839	A BB	18502.	50.000 UG/L	1.24
40	196	430	7:10	3	0.863	A BB	22907.	50.000 UG/L	1.24
41	162	425	7:05	3	0.853	A BB	65013.	50.000 UG/L	1.24
42	65	456	7:36	3	0.916	A BB	26468.	50.000 UG/L	1.24
43	163	493	8:13	3	0.990	A BB	73027.	50.000 UG/L	1.24
44	152	476	7:56	3	0.956	A BB	90269.	50.000 UG/L	1.24
45	138	511	8:31	3	1.026	A BB	19881.	50.000 UG/L	1.24
46	153	502	8:22	3	1.008	A BB	55013.	50.000 UG/L	1.24
47	184	524	8:44	3	1.052	A BB	9245.	50.000 UG/L	1.24
48	109	575	9:35	3	1.155	A BV	6126.	50.000 UG/L	1.24
49	168	524	8:44	3	1.052	A BB	89143.	50.000 UG/L	1.24
50	165	544	9:04	3	1.092	A BB	19606.	50.000 UG/L	1.24

011488

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	2:30	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	8:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	11:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	20:11	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:17	1.00	0.513	1.00	50.00	50.00	1.480	1.480	1.00
8	2:28	1.00	0.987	1.00	50.00	50.00	2.168	2.168	1.00
9	10:05	1.00	1.215	1.00	50.00	50.00	0.133	0.133	1.00
10	3:26	1.00	0.738	1.00	50.00	50.00	0.440	0.440	1.00
11	7:04	1.00	0.851	1.00	50.00	50.00	1.191	1.191	1.00
12	15:16	1.00	0.883	1.00	50.00	50.00	1.267	1.267	1.00
13	2:29	1.00	0.993	1.00	50.00	50.00	1.902	1.902	1.00
14	2:19	1.00	0.927	1.00	50.00	50.00	1.508	1.508	1.00
15	2:21	1.00	0.940	1.00	50.00	50.00	1.446	1.446	1.00
16	2:26	1.00	0.973	1.00	50.00	50.00	1.550	1.550	1.00
17	2:31	1.00	1.007	1.00	50.00	50.00	1.585	1.585	1.00
18	2:55	1.00	1.167	1.00	50.00	50.00	0.880	0.880	1.00
19	2:47	1.00	1.113	1.00	50.00	50.00	1.413	1.413	1.00
20	3:22	1.00	1.347	1.00	50.00	50.00	1.648	1.648	1.00
21	3:09	1.00	1.260	1.00	50.00	50.00	2.682	2.682	1.00
22	3:39	1.00	1.460	1.00	50.00	50.00	1.643	1.643	1.00
23	3:25	1.00	1.367	1.00	50.00	50.00	1.489	1.489	1.00
24	3:14	1.00	1.293	1.00	50.00	50.00	0.616	0.616	1.00
25	3:28	1.00	0.746	1.00	50.00	50.00	0.430	0.430	1.00
26	3:57	1.00	0.849	1.00	50.00	50.00	0.833	0.833	1.00
27	4:03	1.00	0.871	1.00	50.00	50.00	0.212	0.212	1.00
28	4:32	1.00	0.975	1.00	50.00	50.00	0.331	0.331	1.00
29	5:11	1.00	1.115	1.00	50.00	50.00	0.261	0.261	1.00
30	4:34	1.00	0.982	1.00	50.00	50.00	0.491	0.491	1.00
31	4:41	1.00	1.007	1.00	50.00	50.00	0.313	0.313	1.00
32	4:37	1.00	0.993	1.00	50.00	50.00	0.314	0.314	1.00
33	4:41	1.00	1.007	1.00	50.00	50.00	1.101	1.101	1.00
34	5:02	1.00	1.082	1.00	50.00	50.00	0.452	0.452	1.00
35	5:11	1.00	1.115	1.00	50.00	50.00	0.133	0.133	1.00
36	6:28	1.00	1.391	1.00	50.00	50.00	0.307	0.307	1.00
37	6:06	1.00	1.312	1.00	50.00	50.00	0.831	0.831	1.00
38	6:39	1.00	0.801	1.00	50.00	50.00	0.247	0.247	1.00
39	6:58	1.00	0.839	1.00	50.00	50.00	0.313	0.313	1.00
40	7:10	1.00	0.863	1.00	50.00	50.00	0.388	0.388	1.00
41	7:05	1.00	0.853	1.00	50.00	50.00	1.100	1.100	1.00
42	7:36	1.00	0.916	1.00	50.00	50.00	0.448	0.448	1.00
43	8:13	1.00	0.990	1.00	50.00	50.00	1.236	1.236	1.00
44	7:56	1.00	0.956	1.00	50.00	50.00	1.528	1.528	1.00
45	8:31	1.00	1.026	1.00	50.00	50.00	0.337	0.337	1.00
46	8:22	1.00	1.008	1.00	50.00	50.00	0.931	0.931	1.00
47	8:44	1.00	1.052	1.00	50.00	50.00	0.156	0.156	1.00
48	9:35	1.00	1.155	1.00	50.00	50.00	0.104	0.104	1.00
49	8:44	1.00	1.052	1.00	50.00	50.00	1.509	1.509	1.00
50	9:04	1.00	1.092	1.00	50.00	50.00	0.332	0.332	1.00

011489

Quantitation Report File: FS0412C02

Data: FS0412C02.TI
04/12/93 11:59:00
Sample: SSTD050
Conds.: ---
Formula: 04/08/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	C570	2-CHLOROPHENOL-D4 ** SU7 **	
81	C575	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	497	8:17	3	0.998	A BB	22376.	50.000 UG/L	1.24
52	149	591	9:51	3	1.187	A BB	62001.	50.000 UG/L	1.24
53	204	581	9:41	3	1.167	A BB	33669.	50.000 UG/L	1.24
54	166	568	9:28	3	1.141	A BB	66572.	50.000 UG/L	1.24
55	138	593	9:53	3	1.191	A BB	17697.	50.000 UG/L	1.24
56	198	596	9:56	4	0.869	A BB	12532.	50.000 UG/L	1.24
57	169	602	10:02	4	0.878	A BB	54928.	50.000 UG/L	1.24
58	248	642	10:42	4	0.936	A BB	16397.	50.000 UG/L	1.24
59	284	649	10:49	4	0.946	A BB	16522.	50.000 UG/L	1.24
60	266	684	11:24	4	0.997	A BB	10923.	50.000 UG/L	1.24
61	178	689	11:29	4	1.004	A BV	99622.	50.000 UG/L	1.24

011490

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
62	178	694	11:34	4	1.012	A VB	107246.	50.000 UG/L	1.24
63	149	810	13:30	4	1.181	A BB	145116.	50.000 UG/L	1.24
64	202	845	14:05	4	1.232	A BB	121322.	50.000 UG/L	1.24
65	202	870	14:30	5	0.839	A BB	124440.	50.000 UG/L	1.24
66	149	1004	16:44	5	0.968	A BB	64217.	50.000 UG/L	1.24
67	252	1051	17:31	5	1.013	A BB	30376.	50.000 UG/L	1.24
68	228	1035	17:15	5	0.998	A BV	103000.	50.000 UG/L	1.24
69	149	1099	18:19	5	1.060	A BB	97761.	50.000 UG/L	1.24
70	228	1040	17:20	5	1.003	A VB	84804.	50.000 UG/L	1.24
71	149	1178	19:38	6	0.973	A BB	184343.	50.000 UG/L	1.24
72	252	1171	19:31	6	0.967	M XX	110358.	50.000 UG/L	1.24
73	252	1173	19:33	6	0.969	M XX	78528.	50.000 UG/L	1.24
74	252	1204	20:04	6	0.994	A BB	84600.	50.000 UG/L	1.24
75	276	1324	22:04	6	1.093	A BV	58616.	50.000 UG/L	1.24
76	278	1331	22:11	6	1.099	A BV	57317.	50.000 UG/L	1.24
77	276	1346	22:26	6	1.111	A BB	68498.	50.000 UG/L	1.24
78	74	29	0:29	1	0.193	A BB	25809.	50.000 UG/L	1.24
79	184	884	14:44	5	0.852	A BB	35364.	50.000 UG/L	1.24
80	132	140	2:20	1	0.933	A BB	50017.	50.000 UG/L	1.24
81	152	165	2:45	1	1.100	M XX	22581.	50.000 UG/L	1.24
82	167	730	12:10	4	1.064	A BB	106416.	50.000 UG/L	1.24

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	8:17	1.00	0.998	1.00	50.00	50.00	0.379	0.379	1.00
52	9:51	1.00	1.187	1.00	50.00	50.00	1.050	1.050	1.00
53	9:41	1.00	1.167	1.00	50.00	50.00	0.570	0.570	1.00
54	9:28	1.00	1.141	1.00	50.00	50.00	1.127	1.127	1.00
55	9:53	1.00	1.191	1.00	50.00	50.00	0.300	0.300	1.00
56	9:56	1.00	0.869	1.00	50.00	50.00	0.146	0.146	1.00
57	10:02	1.00	0.878	1.00	50.00	50.00	0.640	0.640	1.00
58	10:42	1.00	0.936	1.00	50.00	50.00	0.191	0.191	1.00
59	10:49	1.00	0.946	1.00	50.00	50.00	0.193	0.193	1.00
60	11:24	1.00	0.997	1.00	50.00	50.00	0.127	0.127	1.00
61	11:29	1.00	1.004	1.00	50.00	50.00	1.162	1.162	1.00
62	11:34	1.00	1.012	1.00	50.00	50.00	1.250	1.250	1.00
63	13:30	1.00	1.181	1.00	50.00	50.00	1.692	1.692	1.00
64	14:05	1.00	1.232	1.00	50.00	50.00	1.415	1.415	1.00
65	14:30	1.00	0.839	1.00	50.00	50.00	1.596	1.596	1.00
66	16:44	1.00	0.968	1.00	50.00	50.00	0.824	0.824	1.00
67	17:31	1.00	1.013	1.00	50.00	50.00	0.390	0.390	1.00
68	17:15	1.00	0.998	1.00	50.00	50.00	1.321	1.321	1.00
69	18:19	1.00	1.060	1.00	50.00	50.00	1.254	1.254	1.00
70	17:20	1.00	1.003	1.00	50.00	50.00	1.088	1.088	1.00
71	19:38	1.00	0.973	1.00	50.00	50.00	2.471	2.471	1.00
72	19:31	1.00	0.967	1.00	50.00	50.00	1.479	1.479	1.00
73	19:33	1.00	0.969	1.00	50.00	50.00	1.053	1.053	1.00
74	20:04	1.00	0.994	1.00	50.00	50.00	1.134	1.134	1.00
75	22:04	1.00	1.093	1.00	50.00	50.00	0.786	0.786	1.00
76	22:11	1.00	1.099	1.00	50.00	50.00	0.768	0.768	1.00
77	22:26	1.00	1.111	1.00	50.00	50.00	0.918	0.918	1.00
78	0:29	1.00	0.193	1.00	50.00	50.00	0.994	0.994	1.00
79	14:44	1.00	0.852	1.00	50.00	50.00	0.454	0.454	1.00
80	2:20	1.00	0.933	1.00	50.00	50.00	1.927	1.927	1.00
81	2:45	1.00	1.100	1.00	50.00	50.00	0.870	0.870	1.00
82	12:10	1.00	1.064	1.00	50.00	50.00	1.241	1.241	1.00

011491

THE FOLLOWING DATA IS

FOR QA/QC

011491

011492

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SBLK

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: ...

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/7/93
DATE ANALYZED: 04/12/93

DATAFILE: 9B04053C01

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011493

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SBLK

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/7/93
DATE ANALYZED: 04/12/93

DATAFILE: 9B04053C01

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	330 U	
C540	ACENAPHTHYLENE	330 U	
C550	ACENAPHTHENE	330 U	
C590	FLUORENE	330 U	
C640	PHENANTHRENE	330 U	
C645	ANTHRACENE	330 U	
C655	FLUORANTHENE	330 U	
C715	PYRENE	330 U	
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	
C790	BENZO(GHI)PERYLENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

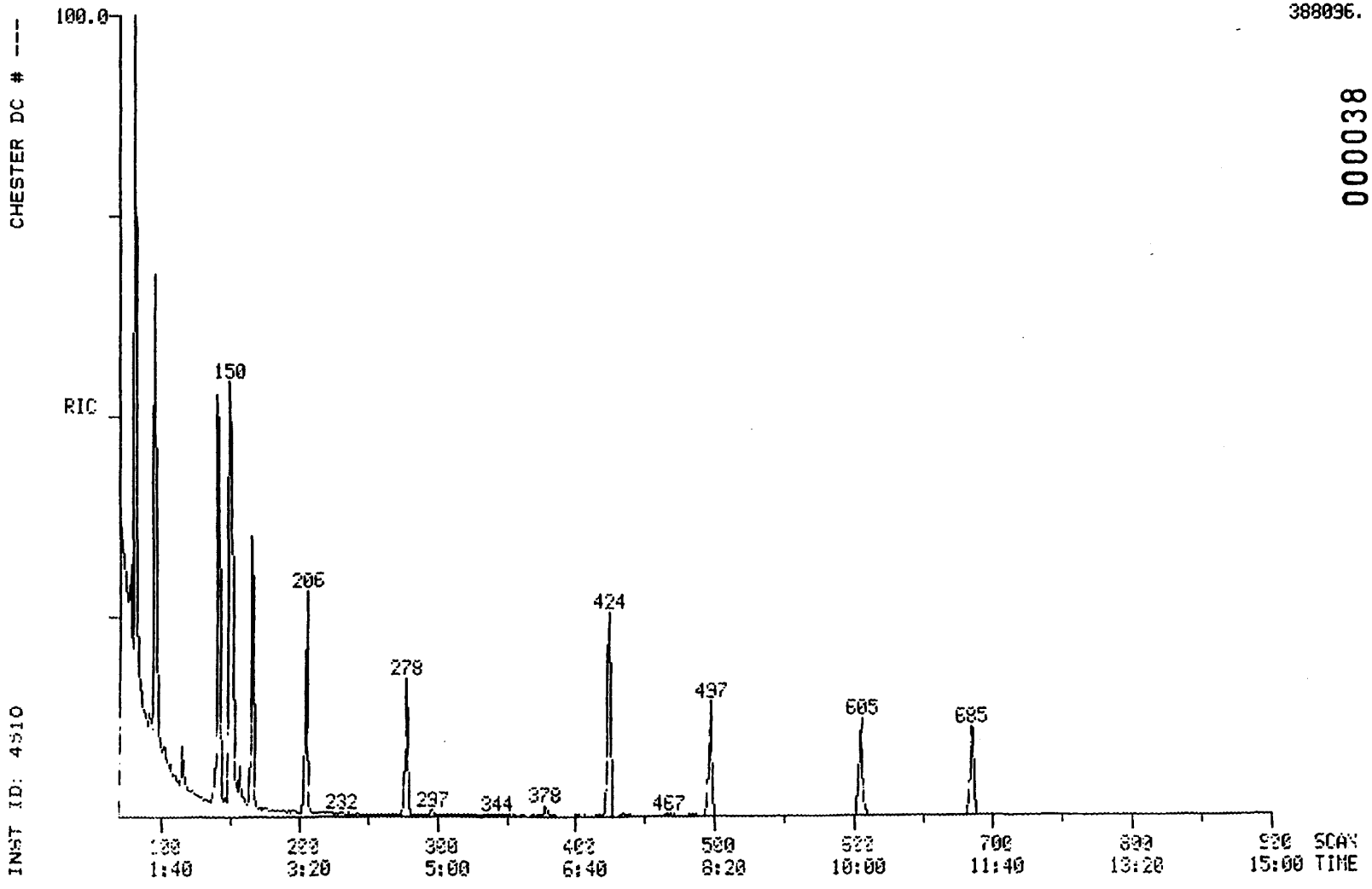
-14

RIC
04/12/93 16:04:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B04053C01 #1 SCANS 70 TO 900
CALI: 9B04053C01 #3

388096.

000038



011494

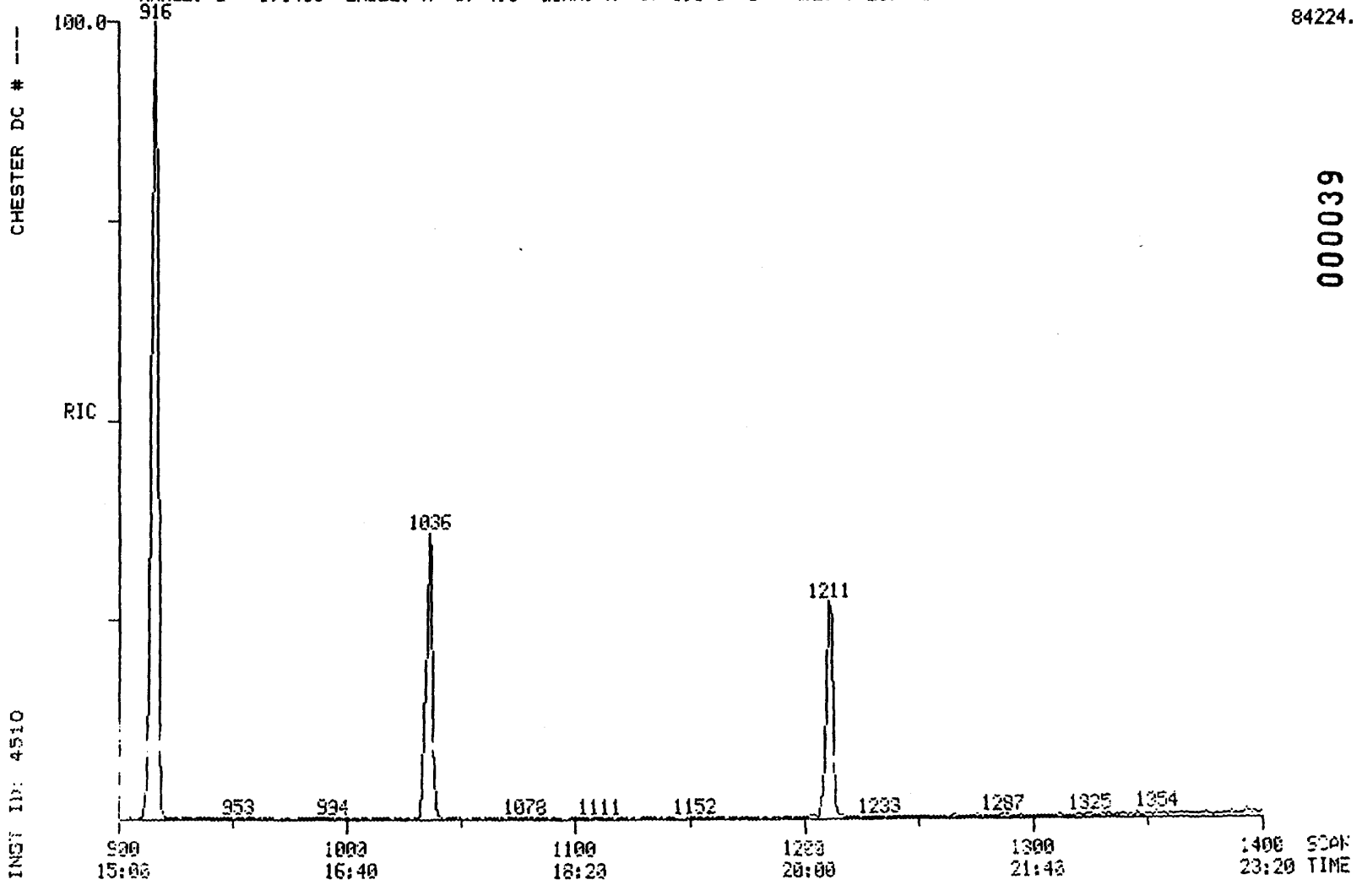
011494

-14

RIC
04/12/93 16:04:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B04053C01 #1 SCANS 900 TO 1400
CALI: 9B04053C01 #3

84224.



CHESTER DC # ---

INST ID: 4510

000039

011495

011495

011496

SAMPLE ID.	SBLK		
FILENAME	9B04053C01	INST ID.	4510
CLIENT	CHESTER	ANALYST	JDD
DATE INJECTED	04/12/93 16:04:00	VERIFIED BY	JDD
CALIB STD DATE	04/08/93	CORR. FACTOR	33.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
151	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	152	660 UG/KG	1.000	1948
278	CI40	NAPHTHALENE-D8 ** IS2 **	136	660 UG/KG	1.000	6334
497	CI50	ACENAPHTHENE-D10 ** IS3 **	164	660 UG/KG	1.000	3821
685	CI60	PHENANTHRENE-D10 ** IS4 **	188	660 UG/KG	1.000	5807
1036	CI70	CHRYSENE-D12 ** IS5 **	240	660 UG/KG	1.000	4150
1211	CI75	PERYLENE-D12 ** IS6 **	264	660 UG/KG	1.000	3198
81	CS50	2-FLUOROPHENOL ** SU1 **	112	106 %	0.536	11775
150	CS45	PHENOL-D5 ** SU2 **	99	86 %	0.993	14002
605	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	330	79 %	1.217	1518
141	CS70	2-CHLOROPHENOL-D4 ** SU7 **	132	70 %	0.934	9916
166	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	152	80 %	1.099	3388
206	CS20	NITROBENZENE-D5 ** SU3 **	82	78 %	0.741	5454
424	CS25	2-FLUOROBIPHENYL ** SU4 **	172	78 %	0.853	8839
916	CS30	TERPHENYL-D14 ** SU6 **	244	87 %	0.884	11469

011497

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	04/12/93	Sens Time:	10:57:00
Lab ID:	FS0412C01	Cali Date:	04/08/93	Analyst:	JDD

Data release authorized by: Juanita D. Drummond

M/E	Ion Abundance Criteria	Spec # 210	
51	30 to 60% of mass 198	50.12	
68	less than 2% of mass 69	0.81	(1.96) 1
69	mass 69 relative abundance	41.53	
70	less than 2% of mass 69	0.23	(0.56) 1
127	40 TO 60% of mass 198	54.32	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.34	
275	10 TO 30% of mass 198	22.06	
365	greater than 1% of mass 198	1.48	
441	less than mass 443	5.39	
442	greater than 40% of mass 198	49.60	
443	17 TO 23% of mass 442	9.30	(18.76) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

011497

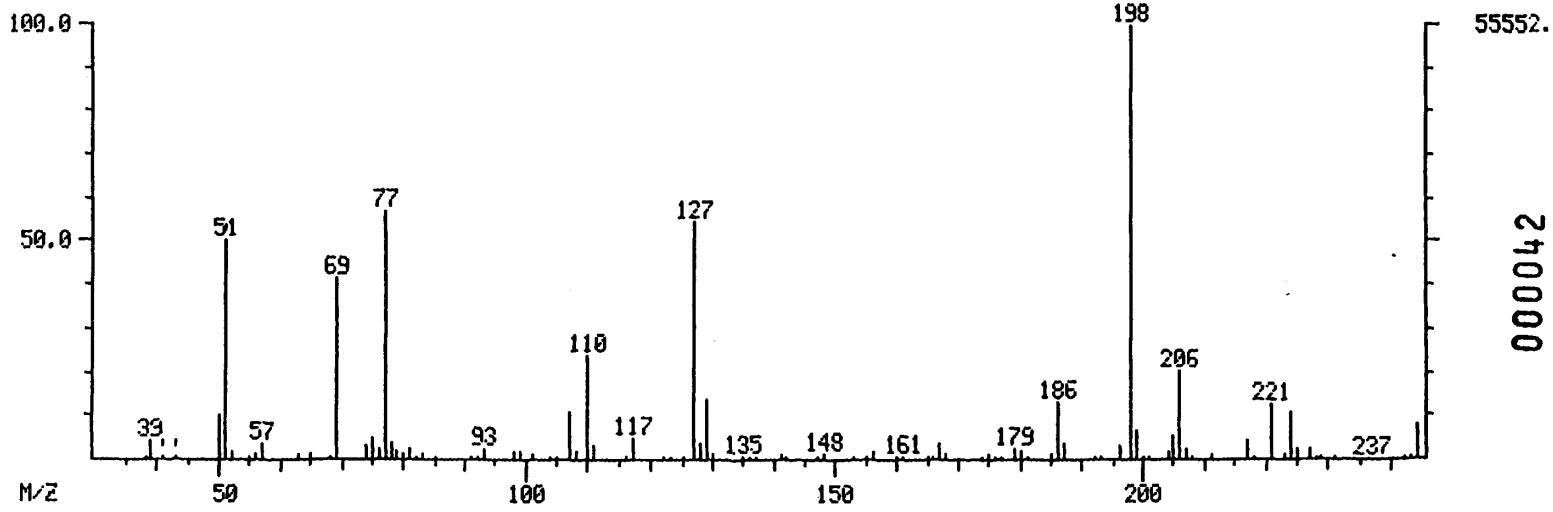
-15

CHESTER DC # ---

MASS SPECTRUM
04/12/93 10:57:00 + 3:31
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:*158 DEG. C
#210 TO #212 SUMMED - #180

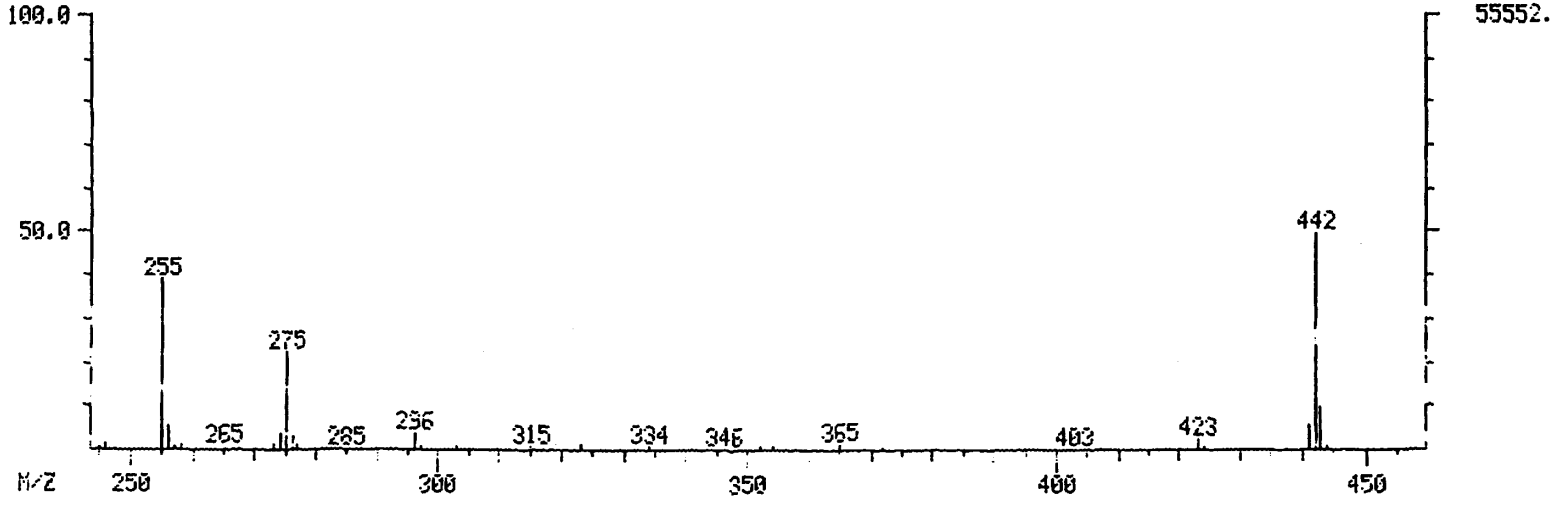
DATA: FS0412C01 #211
CALI: FS0412C01 #3

BASE M/Z: 198
RIC: 397824.



DFTPP SPECTRA

INST ID: 4510



000042

011498

011498

INST ID: 4510 CHESTER DC # --- -15

DFTPP MASS LISTING

Mass List Data: FS0412C01 # 211 Base m/z: 198
04/12/93 10:57:00 + 3:31 Cali: FS0412C01 # 3 RIC: 397824.
Sample: DFTPP
Conds.: ---
#210 to #212 summed - #180

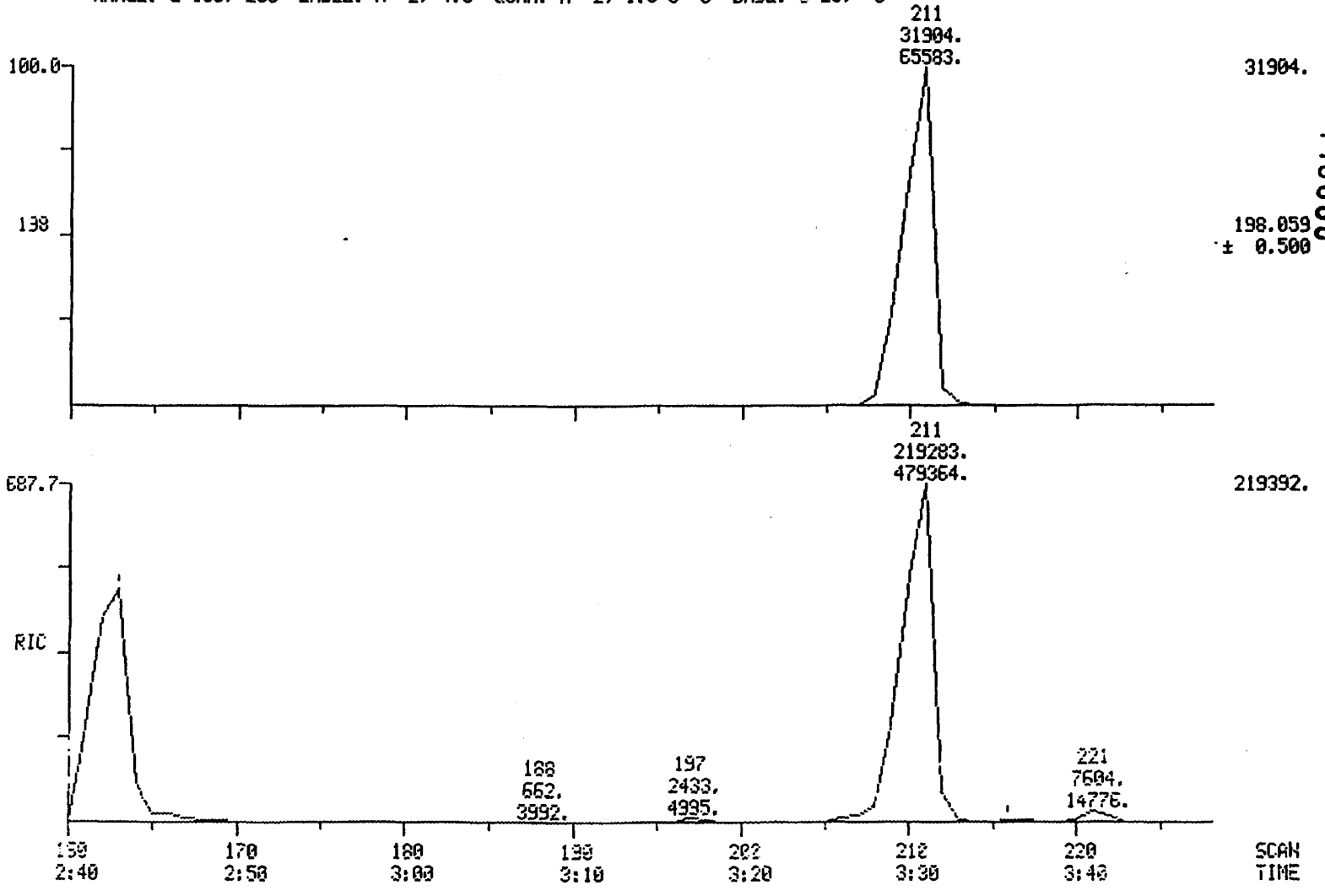
011499

37		0.00	0.	Minima	Min Inten:		249.
444				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
38?		0.66	369.	175		1.45	808.
39?		4.42	2456.	177		0.48	266.
41	S	0.51	281.	179		2.13	1182.
50		9.99	5552.	180		1.79	992.
51	S	50.12	27840.	181		0.83	462.
52		2.10	1164.	185		0.94	524.
55		0.79	438.	186		13.31	7392.
56		1.23	682.	187		3.71	2060.
57		3.44	1910.	192		0.52	289.
63		1.22	679.	193		0.74	410.
65		0.93	518.	196		2.94	1632.
68		0.81	451.	198		100.00	55552.
69		41.53	23072.	199		6.34	3520.
74		2.71	1508.	204		2.06	1142.
75		5.03	2796.	205		5.12	2844.
76		2.15	1196.	206		20.59	11440.
77		56.74	31520.	207		2.38	1324.
78		3.43	1906.	211		1.02	569.
79		1.59	885.	217		4.29	2384.
80		1.41	782.	218		0.57	319.
81		2.37	1314.	221		12.67	7040.
82		0.59	329.	223		0.94	521.
83		1.15	639.	224		10.74	5968.
93		2.68	1488.	225		2.64	1466.
98		2.04	1136.	227		2.69	1494.
99		1.79	992.	229		0.80	444.
101		1.21	671.	244		7.56	4200.
104		0.53	297.	245		0.89	493.
105		0.52	288.	246		1.10	612.
107		11.02	6120.	255		38.65	21472.
108		1.82	1012.	256		5.50	3056.
110		24.22	13456.	258		1.43	794.
111		3.07	1704.	265		0.57	319.
117		5.08	2824.	273		1.06	588.
123		0.68	375.	274		3.59	1994.
127		54.32	30176.	275		22.06	12256.
128		3.86	2144.	276		2.79	1548.
129		13.95	7752.	277		1.25	694.
130		0.98	543.	296		3.31	1838.
135		0.84	466.	303		0.45	251.
137		0.45	250.	323		1.37	762.
141		1.28	711.	334		0.82	455.
147		0.60	336.	354		0.45	252.
148		1.20	668.	365		1.48	824.
155		0.65	360.	372		0.60	331.
156		1.84	1023.	423		2.47	1370.
161		0.86	475.	441		5.39	2996.
167		3.52	1956.	442		49.60	27552.
168		1.11	617.	443		9.30	5168.
174		0.53	296.	444		0.74	411.

000043

RIC+MASS CHROMATOGRAM
04/12/93 10:57:00
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 160, 260 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3

DATA: FS0412C01 #210 SCANS 160 TO 228
CALI: FS0412C01 #3



000044

011500

011500

DRY WEIGHT TEST

KEYSTONE LAB-HOUSTON

CLIENT Dames + Moore

LAB NO. 493-04.53

RUSH

ANALYST EB

DATE 4/7/93

DASH NO.	I.D. NO.	TARE WT. (a)	TARE (b) + WET SX.	TARE (c) + DRY SX.	DIFF. IN WT. OF H_2O LOST(d)	CORRECTION FACTOR (e)	WT. OF SX. USED FOR EXTR. (f)	DRY WT. (g)	DRY WT. FACTOR (h)
002	SCUV-10(SD)F ~~3.0~~ EP	1.52	5.58	5.05	0.530	0.869			1.15
003	SCUV-10(SSD)F	1.54	6.41	5.85	0.560	0.885			1.13
004	SCUV-10(MCD)F	1.54	5.57	4.65	0.920	0.772			1.30
005	SCUV-10(CI/CD)	1.57	6.00	4.31	1.69	0.619			1.62
	Nothing Follows						Nothing Follows		

000045

~~000101~~

$d = (b-a) - (c-a)$ $g = f\frac{(c-a)}{(b-a)}$ $h = f/g = 1/e$ $e = \frac{c-a}{b-a}$

Date Submitted: 04-08-93

Submitted By BH

011501

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number 18804

Project Location South Cavalcade

Laboratory Chester

Sampler(s) Wes Frandt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	pH 150.1	TOC 415.1	COD 410.1	TSS (160.2)	TDS (160.1)	CPAH (8270)	BTEX (8020)	As 7060	Cr	PSA CPAH	TOTAL
SC-RW-E	4/5/93	X	X	X	X	X	X	X	X	X		
~~SC-R~~											X	
SC W1-10(SD) F	4/6/93										X	
SC W1-10(SSD) F	4/6/93										X	
SC W1-10(MCD) F	4/6/93										X	
SC W1-10(C1/C2) F	4/6/93										X	

000046

Relinquished by: Wi[illegible]lt	Organization: Dames + Moore	Date: 4/6/93	Time 5:15	Seal Intact?
Received by: D[illegible]	Organization: Chester	Date: 4/6/93	Time 5:15	Yes No N/A
Relinquished by:	Organization:	Date: / /	Time	Seal Intact?
Received by:	Organization:	Date: / /	Time	Yes No N/A

Special Instructions / Remarks: Sample per work plan

Delivery Method: ☒ In Person ☐ Common Carrier _____ specify ☐ Lab Courier ☐ Other _____ specify

011502

011502

KEYSTONE LAB - HOUSTON
Job Summary Sheet

Produced on 7-APR-1993

PRIORITY

011503

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-04.53
Due Date : 9-APR-1993
Date Rec'd : 6-APR-1993
Project ID :
P.O. Number: 18804

Attention: Contact: BRUCE HICKMAN

Job Description: DAMES & MOORE (RCRA)
Number of samples: 5 Sampled by: CLIENT

Job Comments:
RUSH!! 72 HOUR TURNAROUND. RESULTS DUE BY 4/9/93. MS_SV:FOR SV_TCL_SX, PLEASE ANALYZE FOR PAH'S.
SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Pnt.	Sample Matrix	Date Sampled
53-001	LAB BLANK	QA_QC	SOIL	6-APR-93
53-002	SCW1-10 (SD) F	X	SOIL	6-APR-93
53-003	SCW1-10 (SSD) F	X	SOIL	6-APR-93
53-004	SCW1-10 (MCD) F	X	SOIL	6-APR-93
53-005	SCW1-10 (C1/C2) F	X	SOIL	6-APR-93

Analysis ID	Parameter Description	Number of Analyses
DRY_WT	Dry Weight Factor	5
EXT_8270SX	(Soil) Extraction by EPA 8270	5
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil	5

011504

Report
Prepared
for

D a m e s a n d M o o r e

4321 Directors Row
Suite 200
Houston, TX 77092

Attention : BRUCE HICKMAN

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID : S. CAVALCADE
P.O. NUMBER : 18804

WORK ORDER : H93-04.82
DATE RECEIVED : 12-APR-1993

SAMPLE & ANALYSIS SUMMARY

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-04.82-001	LAB BLANK	8-APR-1993	SOIL
H93-04.82-002	SC-W1-10 (DWC) F	8-APR-1993	SOIL
H93-04.82-003	SC DUPLICATE F	8-APR-1993	SOIL
H93-04.82-004	SCW2-4 (SD) G	8-APR-1993	SOIL
H93-04.82-005	SCW2-4 (SSD) G	8-APR-1993	SOIL
H93-04.82-006	SC W2-4 (MCD) G	8-APR-1993	SOIL
H93-04.82-007	SCW2-4 (C1/C2) G	8-APR-1993	SOIL
H93-04.82-008	SC DUPLICATE G	8-APR-1993	SOIL
H93-04.82-009	SCW2-4 (DWC) G	12-APR-1993	SOIL

Analysis ID	Parameter Description
DRY_WT	Dry Weight Factor
EXT_8270SX	(Soil) Extraction by EPA 8270
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil

011506

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON

DOC. CONT NO:

PROJECT NO.: 18804

SITE: S. CAVALCADE

LAB NO.:H93-04.82

I. RECEIPT

A. DATE: APR. 08, 1993

B. NO. OF SAMPLES: 8 SAMPLES.

C. CLIENT ID NUMBERS: SCW1-10 (DWC) F
SCW2-4 (SD) G
SCW2-4 (SSD) G
SCW2-4 (MCD) G
SCW2-4 (C1/C2) G
SC DUPLICATE F
SC DUPLICATE G
SCW2-4 (DWC) G

D. SAMPLE TYPE: Soils

E. ANALYSIS REQUESTED: cPAH (8270)
Grain Size (D-422)

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: At the request of Dames & Moore (2) data sheets provided per sample in each Work Order. First Organics Analysis Data Sheet contains cPAH follow with Full PAH LISTING.
Quanitation Data sheet will give complete PAH amounts. The delay to analyses of cPAH for soils on this Work Order was due to GC/MS downtime with Semi-volatile instrumentation.

I. COMMENTS: The Report for Grain Size by ASTM (D-422) will follow under separate cover in order to expedite the PAH data.

According to Contract, all sample data Faxed (4/26/93) as a prelimiary to receival of Data Package.

Robert R. Barrientos

Robert R. Barrientos, Project Manager

May 03, 1993

Date

000001

011506

Keystone Lab - Houston
Soil Surrogate Recovery Summary
Keystone Work Order # H93-04.82

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK	75	82	111	79	73	77	63	99
SC-W1-10 (DWC) F	DL	DL	DL	DL	DL	DL	DL	DL
SC DUPLICATE F	DL	DL	DL	DL	DL	DL	DL	DL
SOW2-4 (SD) G	DL	DL	DL	DL	DL	DL	DL	DL
SOW2-4 (SSD) G	DL	DL	DL	DL	DL	DL	DL	DL
SC W2-4 (MCD) G	DL	DL	DL	DL	DL	DL	DL	DL
SOW2-4 (C1/C2) G	DL	DL	DL	DL	DL	DL	DL	DL
SC DUPLICATE G	DL	DL	DL	DL	DL	DL	DL	DL
SOW2-4 (DWC) G	DL	DL	DL	DL	DL	DL	DL	DL

Surrogate Name	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	22-120
S3 (TPH) = Terphenyl-d14	18-137
S5 (2FP) = 2-Fluorophenol	25-121
S7 (2CP) = 2-Chlorophenol-d4	20-130**

Surrogate Name	QC LIMITS
S2 (FBP) = 2-Fluorobiphenyl	30-115
S4 (PHL) = Phenol-d5	24-113
S6 (TBP) = 2,4,6-Tribromophenol	19-122
S8 (DCB) = 1,2-Dichlorobenzene-d4	20-130**

0 out of 8 : outside of QC limits.

* = Values are outside of QC limits ** = Advisory QC Limits NA = Not Applicable
DL = DILUTED OUT

011508

INST ID: 4530 SAMPLE NUMBER: SC-W1-10(DWC) F

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930408202 GC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C02
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/23/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	570	690
C740	CHRYSENE	570	630
C765	BENZO(B)FLUORANTHENE	570	260 J
C770	BENZO(K)FLUORANTHENE	570	310 J
C775	BENZO(A)PYRENE	570	240 J
C780	INDENO(1,2,3-CD)PYRENE	570	100 J
C785	DIBENZO(A,H)ANTHRACENE	570	23 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011509

INST ID: 4530 SAMPLE NUMBER: SC-W1-10(DWC) F

ORGANICS ANALYSIS DATA SHEET -

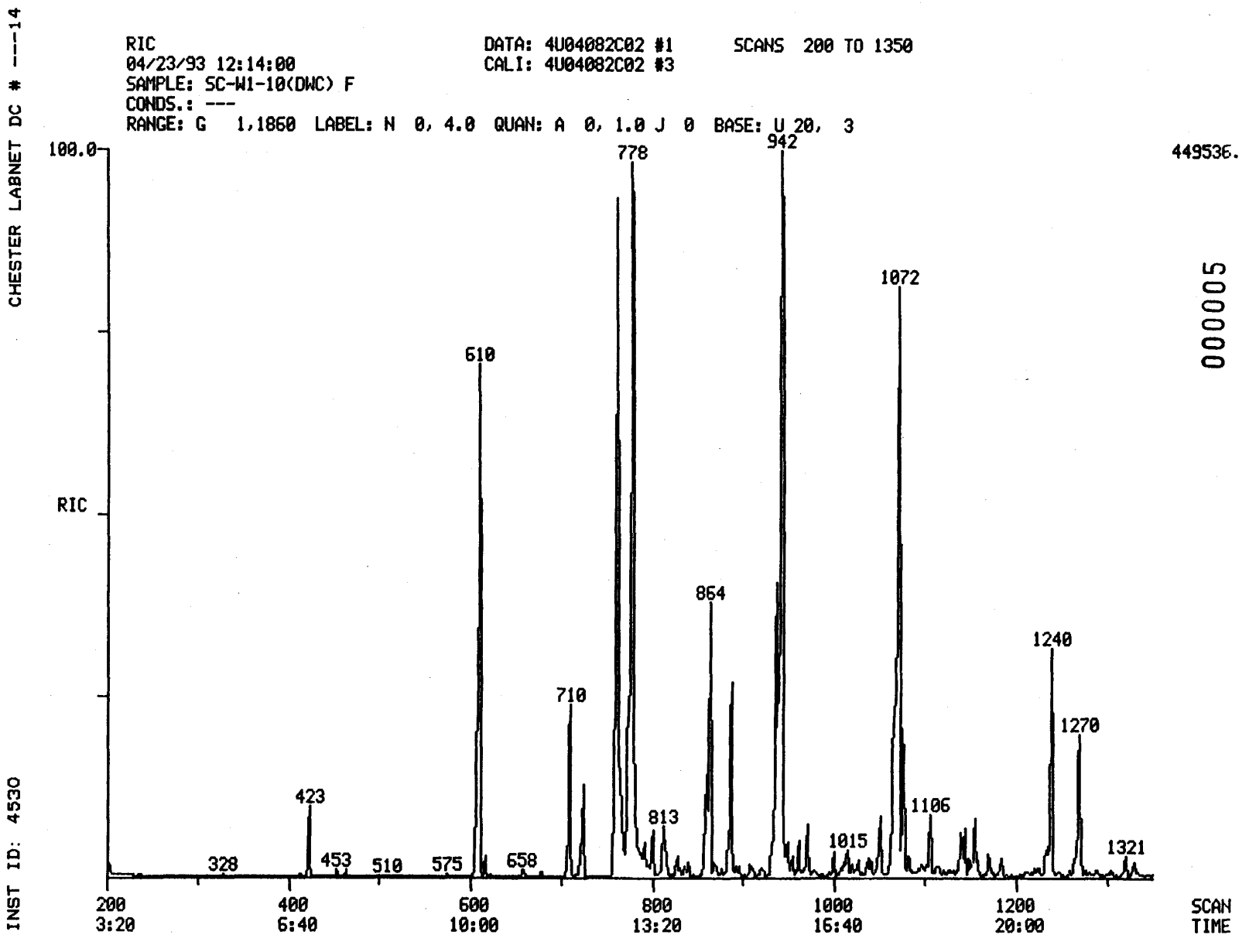
LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930408202 GC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C02
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/23/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	570	9100
C540	ACENAPHTHYLENE	570	130 J
C550	ACENAPHTHENE	570	4600
C590	FLUORENE	570	4800
C640	PHENANTHRENE	570	11000
C645	ANTHRACENE	570	1800
C655	FLUORANTHENE	570	4500
C715	PYRENE	570	5000
C730	BENZO(A)ANTHRACENE	570	690
C740	CHRYSENE	570	630
C765	BENZO(B)FLUORANTHENE	570	260 J
C770	BENZO(K)FLUORANTHENE	570	310 J
C775	BENZO(A)PYRENE	570	240 J
C780	INDENO(1,2,3-CD)PYRENE	570	100 J
C785	DIBENZO(A,H)ANTHRACENE	570	23 J
C790	BENZO(GHI)PERYLENE	570	120 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



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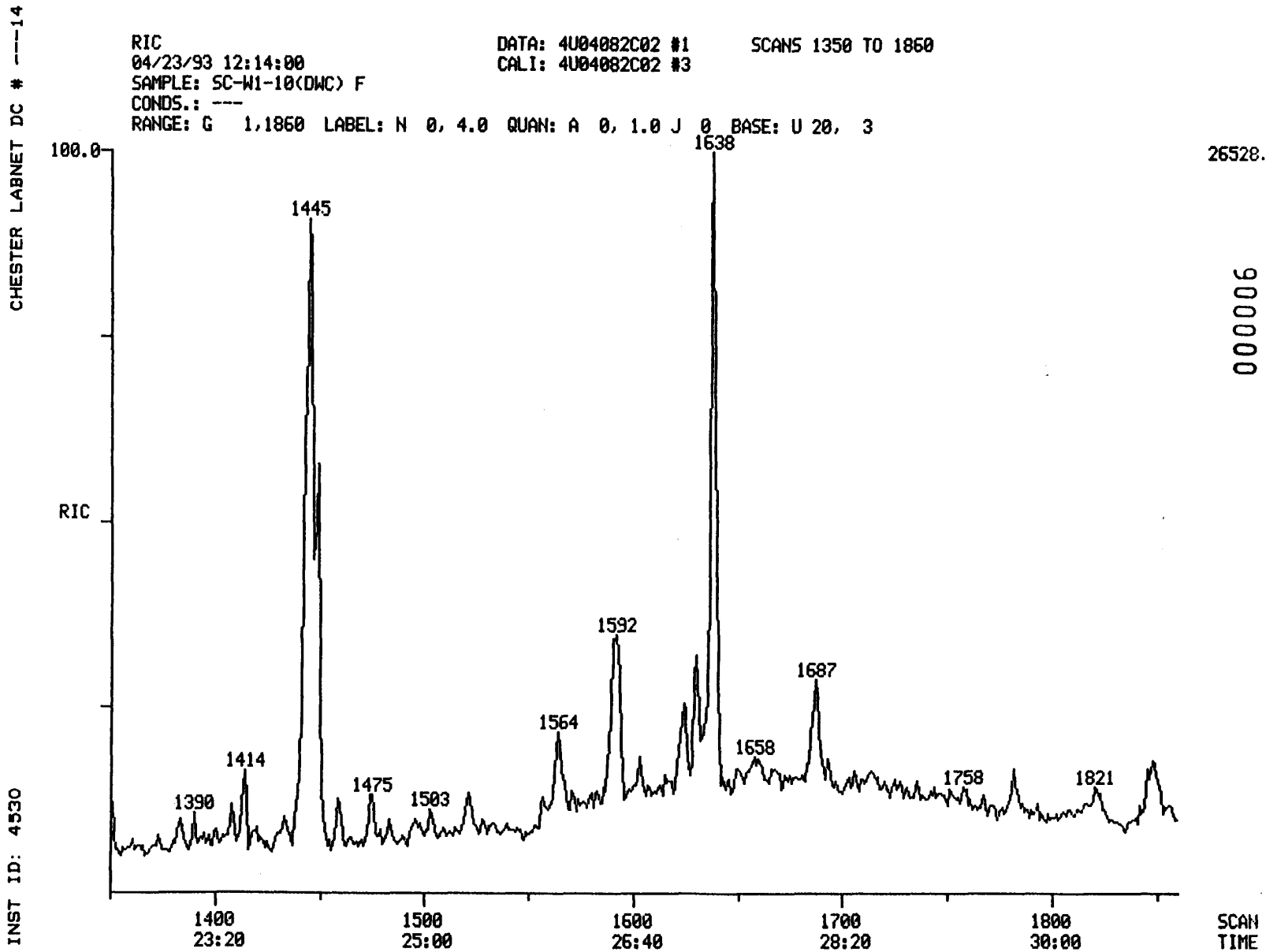

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011511

CHESTER LABNET DC # ---14

SEMIVOLATILE SOIL REPORT

011512

SAMPLE ID. SC-W1-10(DWC) F

FILENAME 4U04082C02 INST ID. 4530

CLIENT DAMES_MO ANALYST SC

DATE INJECTED 04/23/93 12:14:00 VERIFIED BY

CALIB STD DATE 04/17/93 CORR. FACTOR 57.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT		RRT	AREA
423	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	1140	MG/KG	1.000	133E
607	CI40	NAPHTHALENE-D8 ** IS2 **	136	1140	MG/KG	1.000	425E
859	CI50	ACENAPHTHENE-D10 ** IS3 **	164	1140	MG/KG	1.000	278E
1067	CI60	PHENANTHRENE-D10 ** IS4 **	188	1140	MG/KG	1.000	4894
1445	CI70	CHRYSENE-D12 ** IS5 **	240	1140	MG/KG	1.000	2496
1638	CI75	PERYLENE-D12 ** IS6 **	264	1140	MG/KG	1.000	2977
610	C450	NAPHTHALENE	128	9058	MG/KG	1.005	31074
836	C540	ACENAPHTHYLENE	152	128	MG/KG	0.973	561
864	C550	ACENAPHTHENE	153	4584	MG/KG	1.006	11227
936	C590	FLUORENE	166	4815	MG/KG	1.090	12481
1071	C640	PHENANTHRENE	178	10702	MG/KG	1.004	49256
1076	C645	ANTHRACENE	178	1757	MG/KG	1.008	7299
1240	C655	FLUORANTHENE	202	4522	MG/KG	1.162	16960
1270	C715	PYRENE	202	5036	MG/KG	0.879	10465
1443	C730	BENZO(A)ANTHRACENE	228	687	MG/KG	0.999	1770
1449	C740	CHRYSENE	228	626	MG/KG	1.003	1249
1590	C765	BENZO(B)FLUORANTHENE	252	259	MG/KG	0.971	867
1592	C770	BENZO(K)FLUORANTHENE	252	313	MG/KG	0.972	815
1630	C775	BENZO(A)PYRENE	252	243	MG/KG	0.995	609
1782	C780	INDENO(1,2,3-CD)PYRENE	276	105	MG/KG	1.088	256
1786	C785	DIBENZO(A,H)ANTHRACENE	278	23	MG/KG	1.090	47
1821	C790	BENZO(GHI)PERYLENE	276	115	MG/KG	1.112	235.

*SURROGATES WERE DILUTED OUT

011513

INST ID: 4530 SAMPLE NUMBER: SC DUPLICATE F

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930408203 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C03
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/23/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	290	420
C740	CHRYSENE	290	340
C765	BENZO(B)FLUORANTHENE	290	160 J
C770	BENZO(K)FLUORANTHENE	290	150 J
C775	BENZO(A)PYRENE	290	140 J
C780	INDENO(1,2,3-CD)PYRENE	290	47 J
C785	DIBENZO(A,H)ANTHRACENE	290	11 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011514

INST ID: 4530 SAMPLE NUMBER: SC DUPLICATE F

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930408203 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C03
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/23/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	290	5200
C540	ACENAPHTHYLENE	290	78 J
C550	ACENAPHTHENE	290	2800
C590	FLUORENE	290	2600
C640	PHENANTHRENE	290	6900
C645	ANTHRACENE	290	1000
C655	FLUORANTHENE	290	3900
C715	PYRENE	290	2100
C730	BENZO(A)ANTHRACENE	290	420
C740	CHRYSENE	290	340
C765	BENZO(B)FLUORANTHENE	290	160 J
C770	BENZO(K)FLUORANTHENE	290	150 J
C775	BENZO(A)PYRENE	290	140 J
C780	INDENO(1,2,3-CD)PYRENE	290	47 J
C785	DIBENZO(A,H)ANTHRACENE	290	11 J
C790	BENZO(GHI)PERYLENE	290	46 J

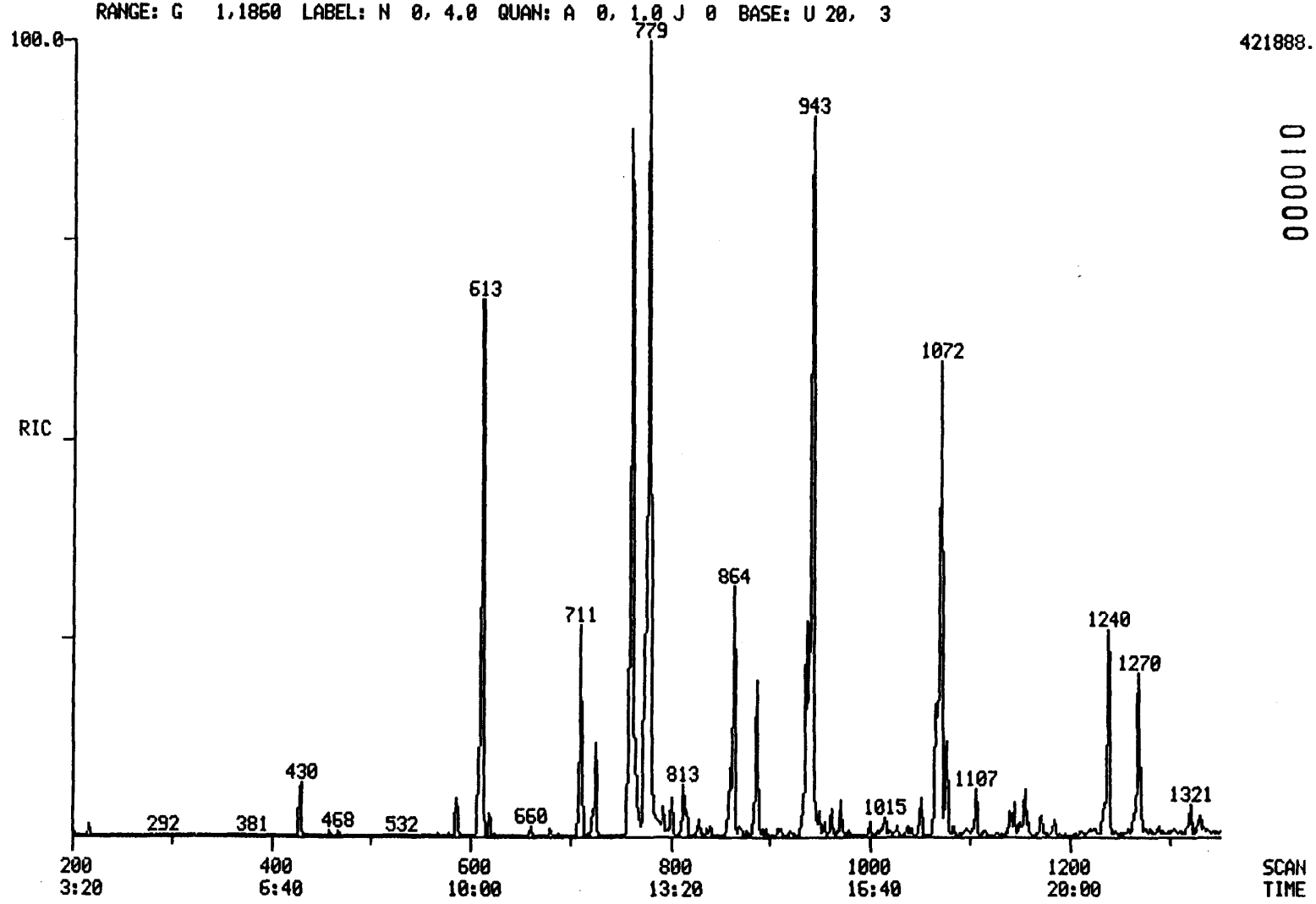
U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

CHESTER LABNET DC # ---14

RIC
04/23/93 12:54:00
SAMPLE: SC DUPLICATE F
CONDS.: ---
RANGE: G 1,1860 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4U04082C03 #1
CALI: 4U04082C03 #3

SCANS 200 TO 1350



INST ID: 4530

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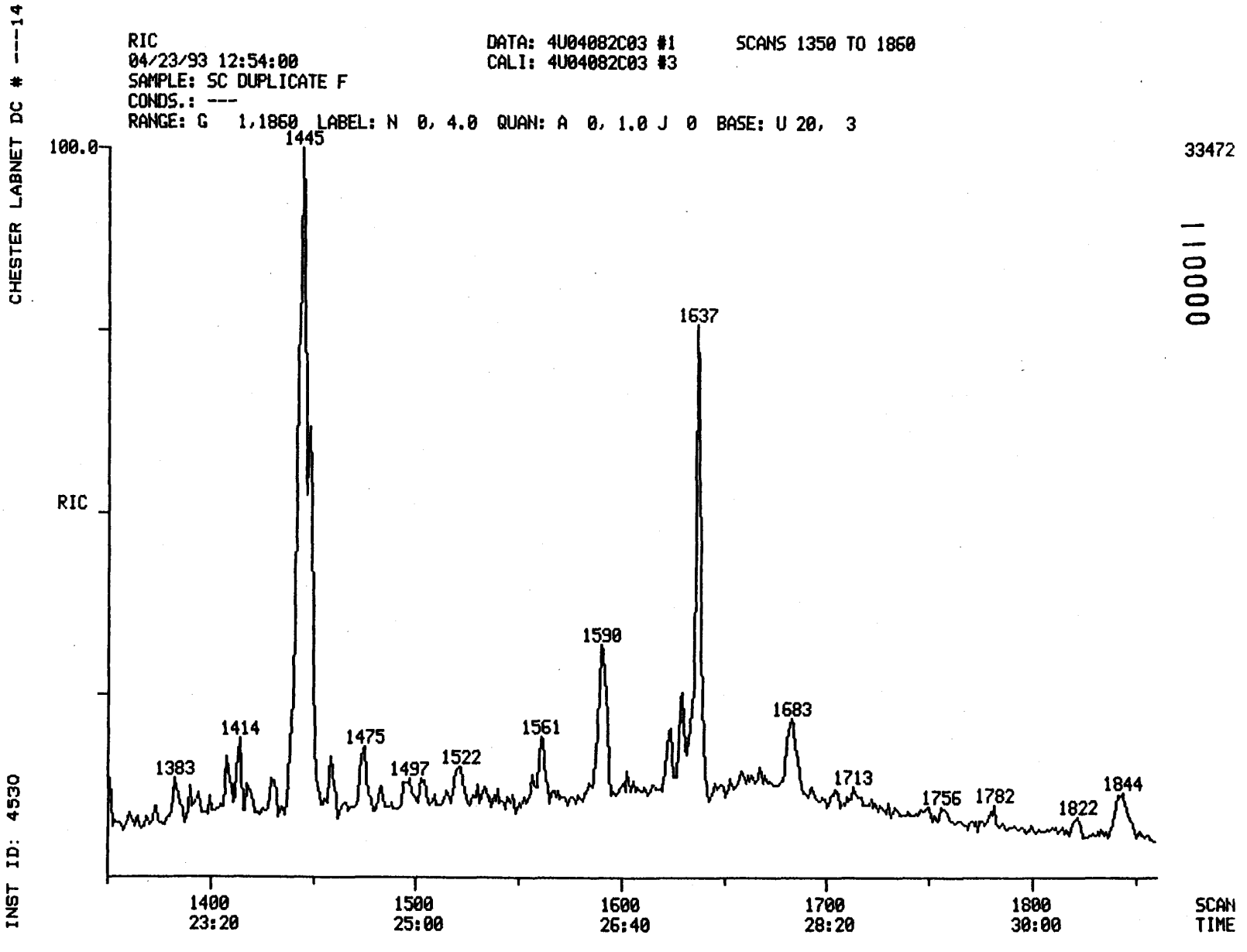

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CHESTER LABNET DC # ---14

SEMIVOLATILE SOIL REPORT

011517

SAMPLE ID.	SC DUPLICATE F		
FILENAME	4U04082C03	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	SC
DATE INJECTED	04/23/93 12:54:00	VERIFIED BY	
CALIB STD DATE	04/17/93	CORR. FACTOR	29.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT		RRT	AREA
429	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	580	MG/KG	1.000	919
609	CI40	NAPHTHALENE-D8 ** IS2 **	136	580	MG/KG	1.000	3887
859	CI50	ACENAPHTHENE-D10 ** IS3 **	164	580	MG/KG	1.000	1705
1067	CI60	PHENANTHRENE-D10 ** IS4 **	188	580	MG/KG	1.000	2528
1445	CI70	CHRYSENE-D12 ** IS5 **	240	580	MG/KG	1.000	2923
1637	CI75	PERYLENE-D12 ** IS6 **	264	580	MG/KG	1.000	2898
612	C450	NAPHTHALENE	128	5227	MG/KG	1.005	32194
837	C540	ACENAPHTHYLENE	152	78	MG/KG	0.974	410
864	C550	ACENAPHTHENE	153	2751	MG/KG	1.006	8100
936	C590	FLUORENE	166	2576	MG/KG	1.090	8026
1072	C640	PHENANTHRENE	178	6944	MG/KG	1.005	32454
1077	C645	ANTHRACENE	178	1039	MG/KG	1.009	4384
1240	C655	FLUORANTHENE	202	3867	MG/KG	1.162	14729
1270	C715	PYRENE	202	2098	MG/KG	0.879	10036
1443	C730	BENZO(A)ANTHRACENE	228	423	MG/KG	0.999	2508
1448	C740	CHRYSENE	228	340	MG/KG	1.002	1564
1590	C765	BENZO(B)FLUORANTHENE	252	164	MG/KG	0.971	1048
1591	C770	BENZO(K)FLUORANTHENE	252	147	MG/KG	0.972	735
1629	C775	BENZO(A)PYRENE	252	137	MG/KG	0.995	657
1781	C780	INDENO(1,2,3-CD)PYRENE	276	47	MG/KG	1.088	217
1786	C785	DIBENZO(A,H)ANTHRACENE	278	11	MG/KG	1.091	41
1821	C790	BENZO(GHI)PERYLENE	276	46	MG/KG	1.112	178

*SURROGATES WERE DILUTED OUT

011518

INST ID: 4530 SAMPLE NUMBER: SCW2-4 (SD) G

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930408204 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C04
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/23/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	310	1600
C740	CHRYSENE	310	950
C765	BENZO(B)FLUORANTHENE	310	1700
C770	BENZO(K)FLUORANTHENE	310	760
C775	BENZO(A)PYRENE	310	1200
C780	INDENO(1,2,3-CD)PYRENE	310	590
C785	DIBENZO(A,H)ANTHRACENE	310	82 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011519

INST ID: 4530 SAMPLE NUMBER: SCW2-4 (SD) G

ORGANICS ANALYSIS DATA SHEET -

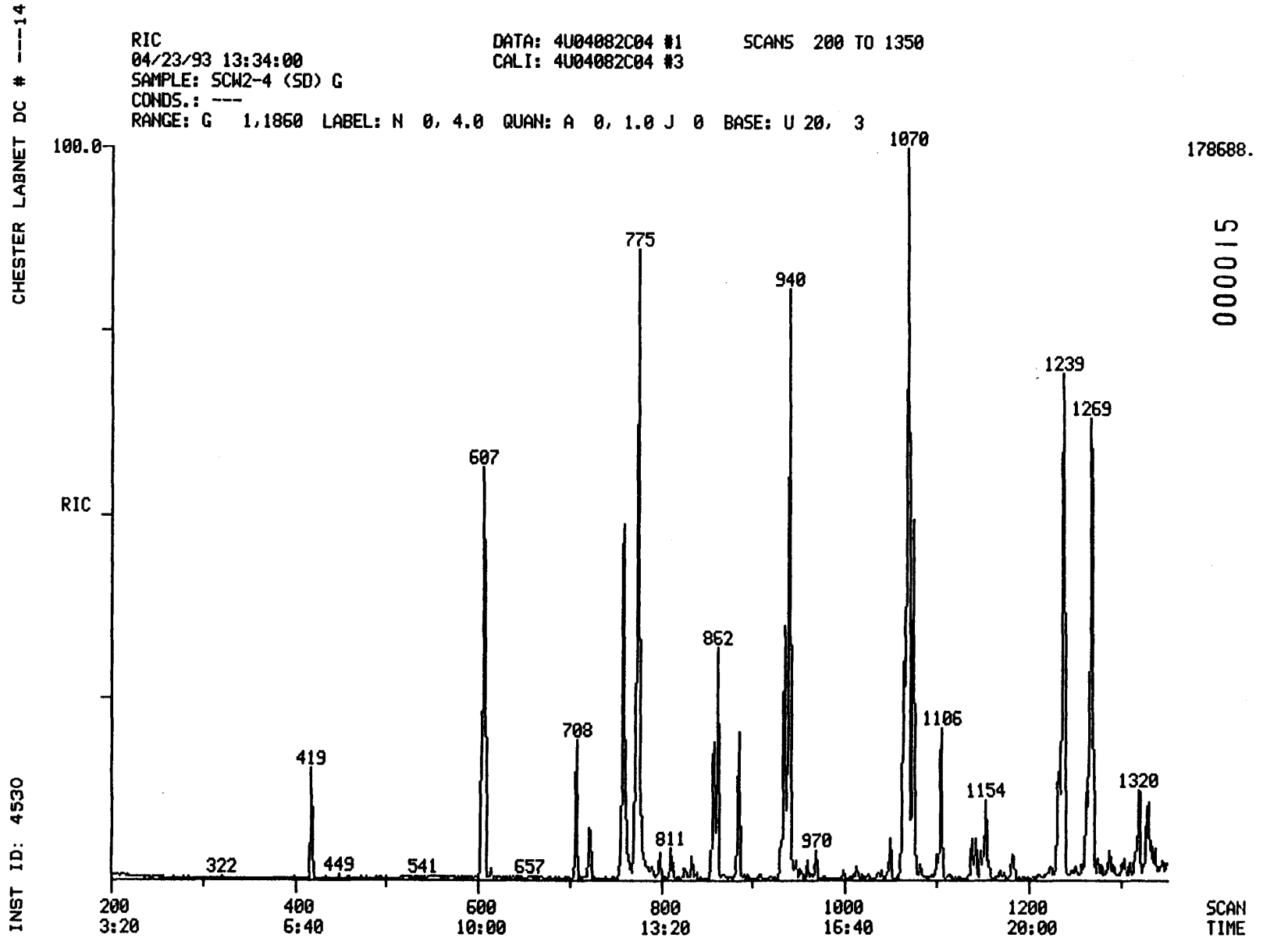
LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930408204 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C04
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/23/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	310	1700
C540	ACENAPHTHYLENE	310	120 J
C550	ACENAPHTHENE	310	1100
C590	FLUORENE	310	1400
C640	PHENANTHRENE	310	4800
C645	ANTHRACENE	310	2000
C655	FLUORANTHENE	310	5000
C715	PYRENE	310	2800
C730	BENZO(A)ANTHRACENE	310	1600
C740	CHRYSENE	310	950
C765	BENZO(B)FLUORANTHENE	310	1700
C770	BENZO(K)FLUORANTHENE	310	760
C775	BENZO(A)PYRENE	310	1200
C780	INDENO(1,2,3-CD)PYRENE	310	590
C785	DIBENZO(A,H)ANTHRACENE	310	82 J
C790	BENZO(GHI)PERYLENE	310	510

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



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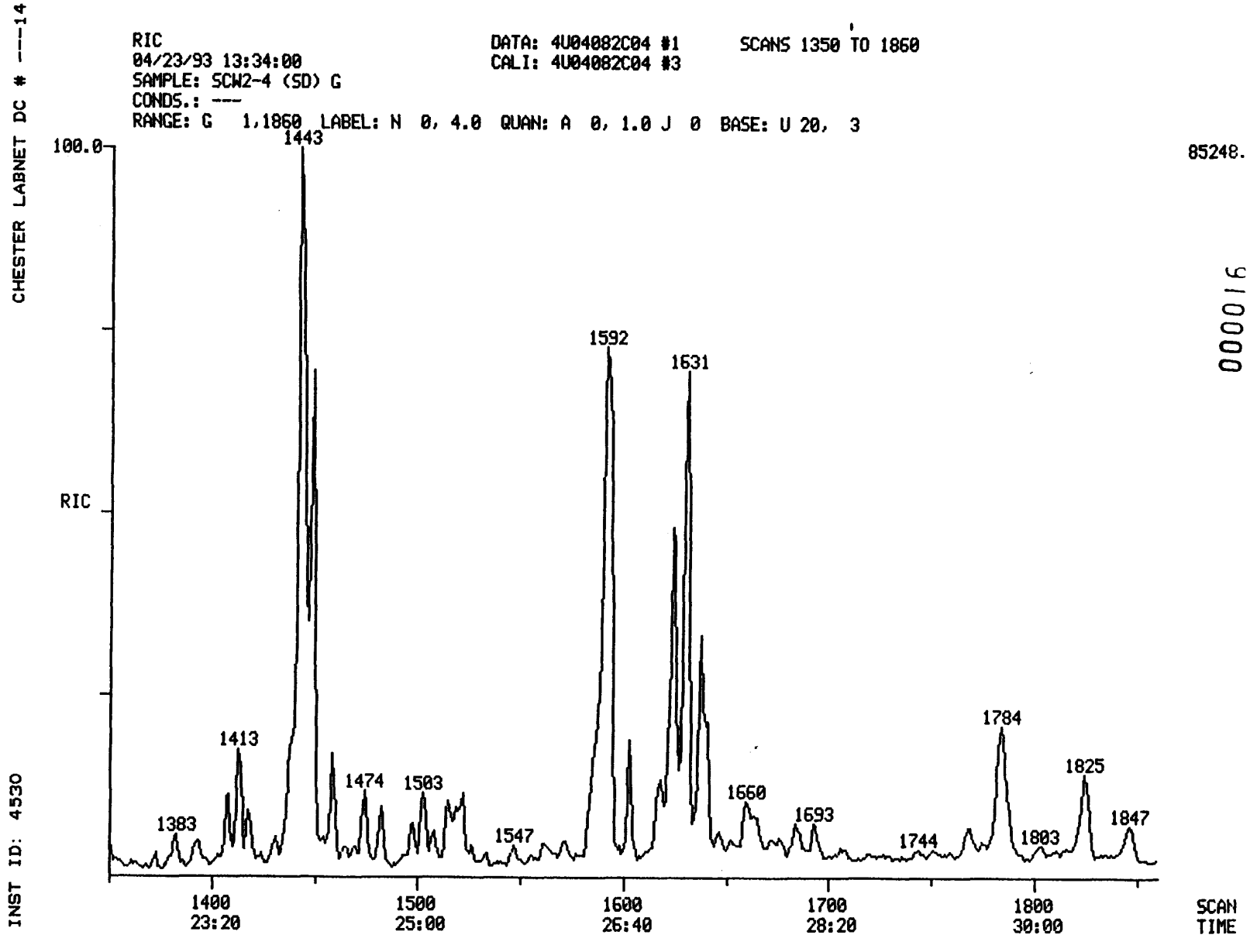

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CHESTER LABNET DC # ---14

SEMIVOLATILE SOIL REPORT

011522

SAMPLE ID.	SCW2-4 (SD) G		
FILENAME	4U04082C04	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	SC
DATE INJECTED	04/23/93 13:34:00	VERIFIED BY	
CALIB STD DATE	04/17/93	CORR. FACTOR	31.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	ARE
419	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	620 MG/KG	1.000	76
604	CI40	NAPHTHALENE-D8 ** IS2 **	136	620 MG/KG	1.000	367
857	CI50	ACENAPHTHENE-D10 ** IS3 **	164	620 MG/KG	1.000	181
1065	CI60	PHENANTHRENE-D10 ** IS4 **	188	620 MG/KG	1.000	272
1445	CI70	CHRYSENE-D12 ** IS5 **	240	620 MG/KG	1.000	348
1638	CI75	PERYLENE-D12 ** IS6 **	264	620 MG/KG	1.000	327
607	C450	NAPHTHALENE	128	1728 MG/KG	1.005	941
835	C540	ACENAPHTHYLENE	152	117 MG/KG	0.974	61
862	C550	ACENAPHTHENE	153	1051 MG/KG	1.006	307
934	C590	FLUORENE	166	1411 MG/KG	1.090	436
1070	C640	PHENANTHRENE	178	4787 MG/KG	1.005	2257
1075	C645	ANTHRACENE	178	1986 MG/KG	1.009	845
1239	C655	FLUORANTHENE	202	5038 MG/KG	1.163	1935
1269	C715	PYRENE	202	2840 MG/KG	0.878	1515
1443	C730	BENZO(A)ANTHRACENE	228	1584 MG/KG	0.999	1048
1449	C740	CHRYSENE	228	948 MG/KG	1.003	486
1592	C765	BENZO(B)FLUORANTHENE	252	1690 MG/KG	0.972	1144
1593	C770	BENZO(K)FLUORANTHENE	252	758 MG/KG	0.973	400
1631	C775	BENZO(A)PYRENE	252	1208 MG/KG	0.996	611
1784	C780	INDENO(1,2,3-CD)PYRENE	276	589 MG/KG	1.089	291
1803	C785	DIBENZO(A,H)ANTHRACENE	278	82 MG/KG	1.101	33
1825	C790	BENZO(GHI)PERYLENE	276	514 MG/KG	1.114	212

*SURROGATES WERE DILUTED OUT

011523

INST ID: 4530 SAMPLE NUMBER: SCW2-4 (SSD) G

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930408205 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C05
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/23/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	160	320
C740	CHRYSENE	160	320
C765	BENZO(B)FLUORANTHENE	160	320
C770	BENZO(K)FLUORANTHENE	160	190
C775	BENZO(A)PYRENE	160	250
C780	INDENO(1,2,3-CD)PYRENE	160	130 J
C785	DIBENZO(A,H)ANTHRACENE	160	26 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011524

INST ID: 4530 SAMPLE NUMBER: SCW2-4 (SSD) G

ORGANICS ANALYSIS DATA SHEET -

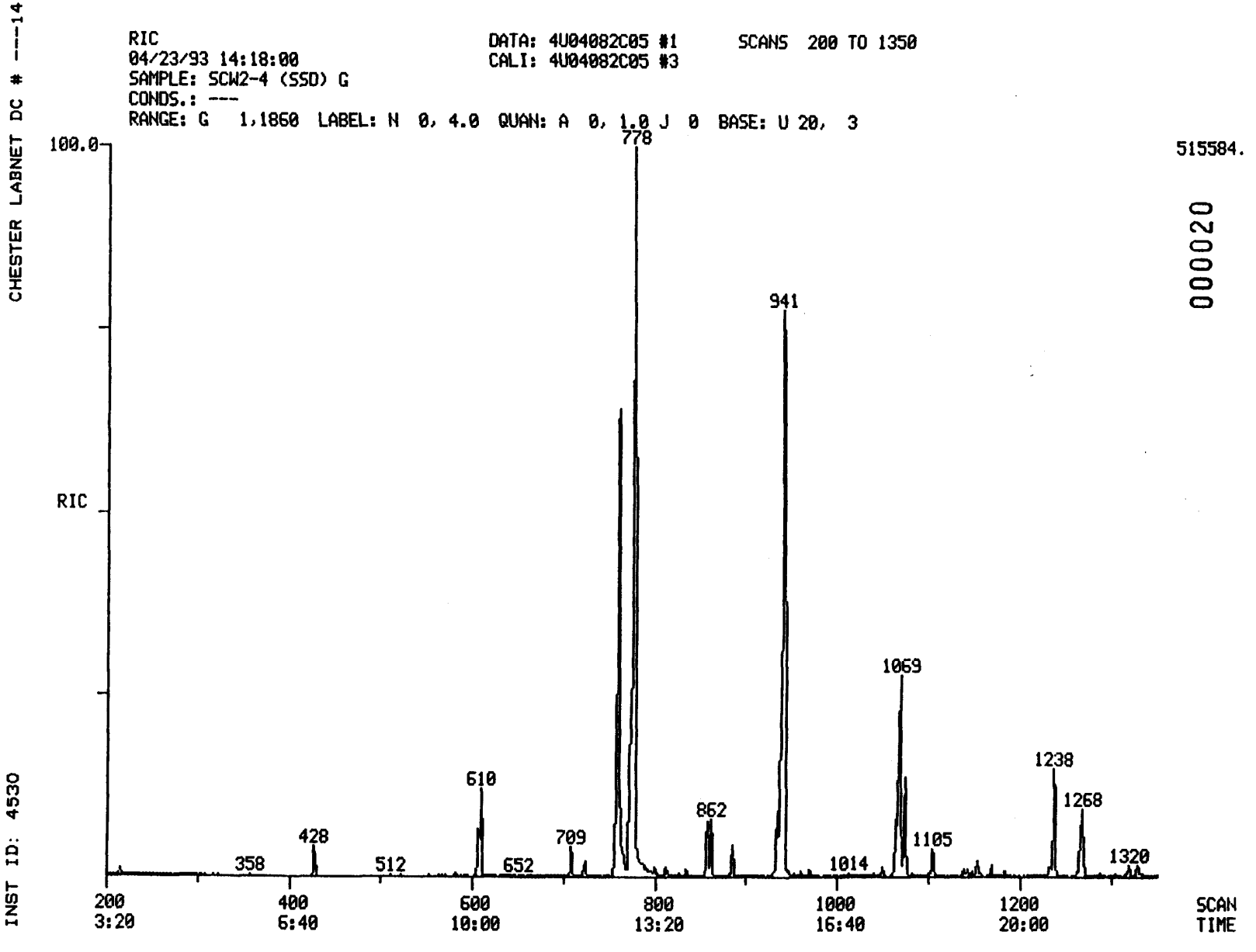
LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930408205 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C05
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/23/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	160	510
C540	ACENAPHTHYLENE	160	45 J
C550	ACENAPHTHENE	160	360
C590	FLUORENE	160	470
C640	PHENANTHRENE	160	1400
C645	ANTHRACENE	160	670
C655	FLUORANTHENE	160	1000
C715	PYRENE	160	600
C730	BENZO(A)ANTHRACENE	160	320
C740	CHRYSENE	160	320
C765	BENZO(B)FLUORANTHENE	160	320
C770	BENZO(K)FLUORANTHENE	160	190
C775	BENZO(A)PYRENE	160	250
C780	INDENO(1,2,3-CD)PYRENE	160	130 J
C785	DIBENZO(A,H)ANTHRACENE	160	26 J
C790	BENZO(GHI)PERYLENE	160	130 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



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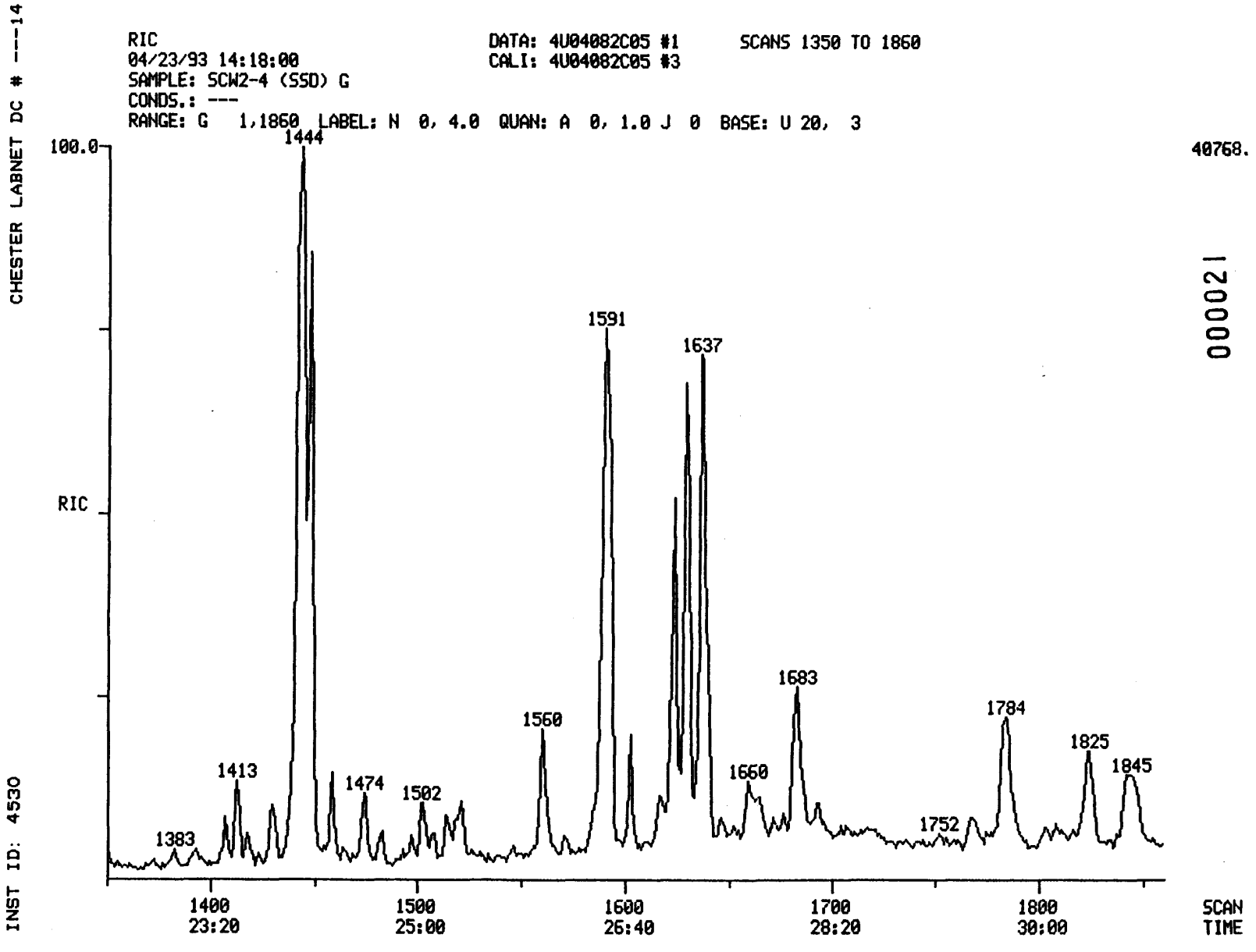

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011526

CHESTER LABNET DC # ---14

SEMIVOLATILE SOIL REPORT

011527

SAMPLE ID.	SCW2-4 (SSD) G		
FILENAME	4U04082C05	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	SC
DATE INJECTED	04/23/93 14:18:00	VERIFIED BY	SC
CALIB STD DATE	04/17/93	CORR. FACTOR	16.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT		RRT	ARE
428	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	320	MG/KG	1.000	59
607	CI40	NAPHTHALENE-D8 ** IS2 **	136	320	MG/KG	1.000	338
858	CI50	ACENAPHTHENE-D10 ** IS3 **	164	320	MG/KG	1.000	198
1065	CI60	PHENANTHRENE-D10 ** IS4 **	188	320	MG/KG	1.000	305
1444	CI70	CHRYSENE-D12 ** IS5 **	240	320	MG/KG	1.000	334
1637	CI75	PERYLENE-D12 ** IS6 **	264	320	MG/KG	1.000	376
610	C450	NAPHTHALENE	128	508	MG/KG	1.005	493
835	C540	ACENAPHTHYLENE	152	45	MG/KG	0.973	50
862	C550	ACENAPHTHENE	153	356	MG/KG	1.005	2211
934	C590	FLUORENE	166	468	MG/KG	1.089	307
1069	C640	PHENANTHRENE	178	1358	MG/KG	1.004	1390
1075	C645	ANTHRACENE	178	667	MG/KG	1.009	6161
1238	C655	FLUORANTHENE	202	1019	MG/KG	1.162	8507
1268	C715	PYRENE	202	605	MG/KG	0.878	5999
1442	C730	BENZO(A)ANTHRACENE	228	321	MG/KG	0.999	3947
1448	C740	CHRYSENE	228	319	MG/KG	1.003	3039
1591	C765	BENZO(B)FLUORANTHENE	252	320	MG/KG	0.972	4827
1592	C770	BENZO(K)FLUORANTHENE	252	187	MG/KG	0.973	2196
1630	C775	BENZO(A)PYRENE	252	249	MG/KG	0.996	2809
1784	C780	INDENO(1,2,3-CD)PYRENE	276	133	MG/KG	1.090	1467
1804	C785	DIBENZO(A,H)ANTHRACENE	278	26	MG/KG	1.102	232
1824	C790	BENZO(GHI)PERYLENE	276	133	MG/KG	1.114	1219

*SURROGATES WERE DILUTED OUT

011528

INST ID: 4530 SAMPLE NUMBER: SCW2-4(MCD) G

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 9304082006
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: RB

CASE NO.: --
QC REPORT NO.: 04/17/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/24/93

DATAFILE: 4U04082C06B

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND (MILLIGRAMS / KG)
C730	BENZO(A)ANTHRACENE	130	240
C740	CHRYSENE	130	210
C765	BENZO(B)FLUORANTHENE	130	300
C770	BENZO(K)FLUORANTHENE	130	260
C775	BENZO(A)PYRENE	130	180
C780	INDENO(1,2,3-CD)PYRENE	130	99 J
C785	DIBENZO(A,H)ANTHRACENE	130 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011529

INST ID: 4530 SAMPLE NUMBER: SCW2-4(MCD) G

ORGANICS ANALYSIS DATA SHEET -

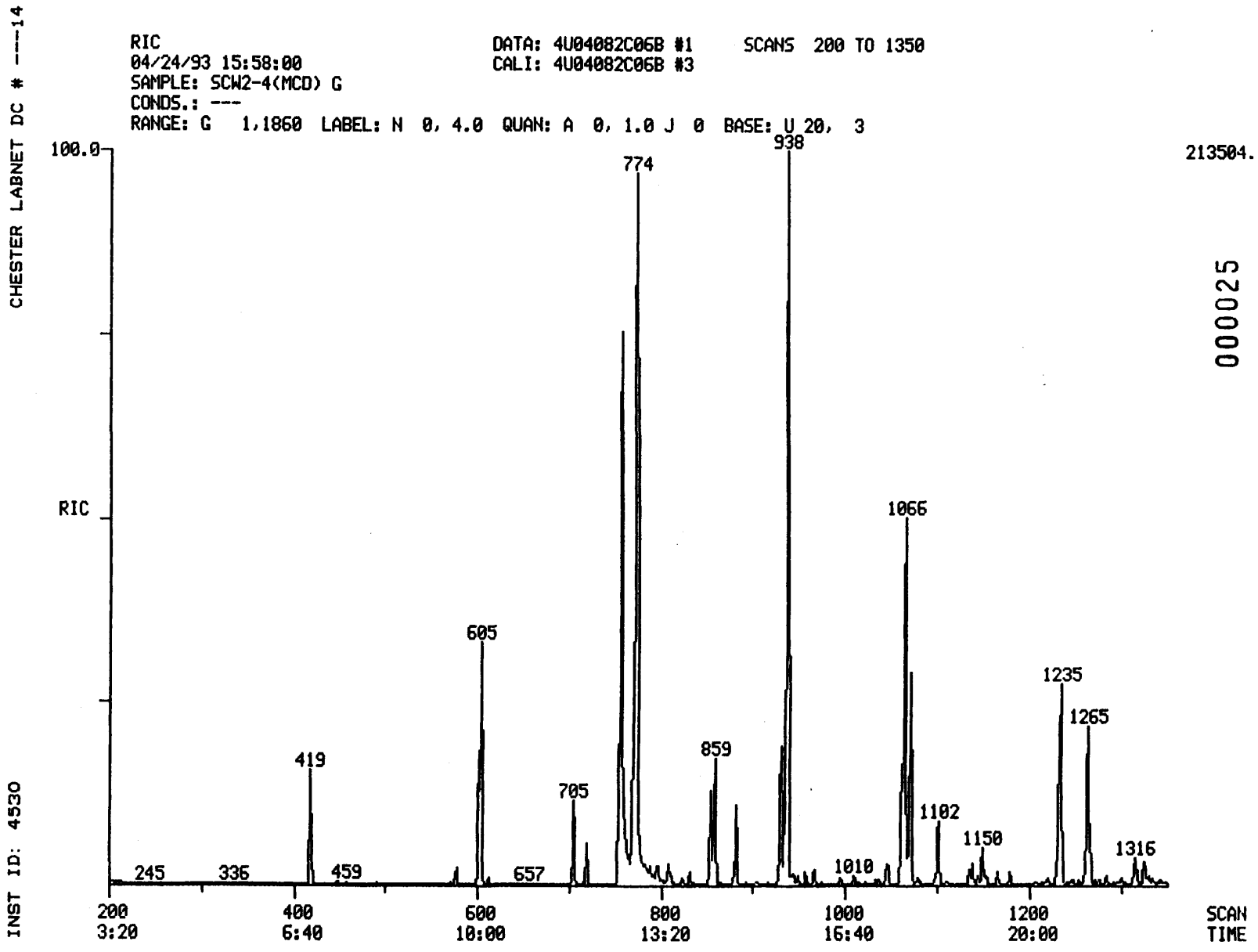
LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 9304082006 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C06B
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/24/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	130 U	
C540	ACENAPHTHYLENE	130 U	
C550	ACENAPHTHENE	130 U	
C590	FLUORENE	130 U	
C640	PHENANTHRENE	130 U	
C645	ANTHRACENE	130 U	
C655	FLUORANTHENE	130 U	
C715	PYRENE	130 U	
C730	BENZO(A)ANTHRACENE	130	240
C740	CHRYSENE	130	210
C765	BENZO(B)FLUORANTHENE	130	300
C770	BENZO(K)FLUORANTHENE	130	260
C775	BENZO(A)PYRENE	130	180
C780	INDENO(1,2,3-CD)PYRENE	130	99 J
C785	DIBENZO(A,H)ANTHRACENE	130 U	
C790	BENZO(GHI)PERYLENE	130 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



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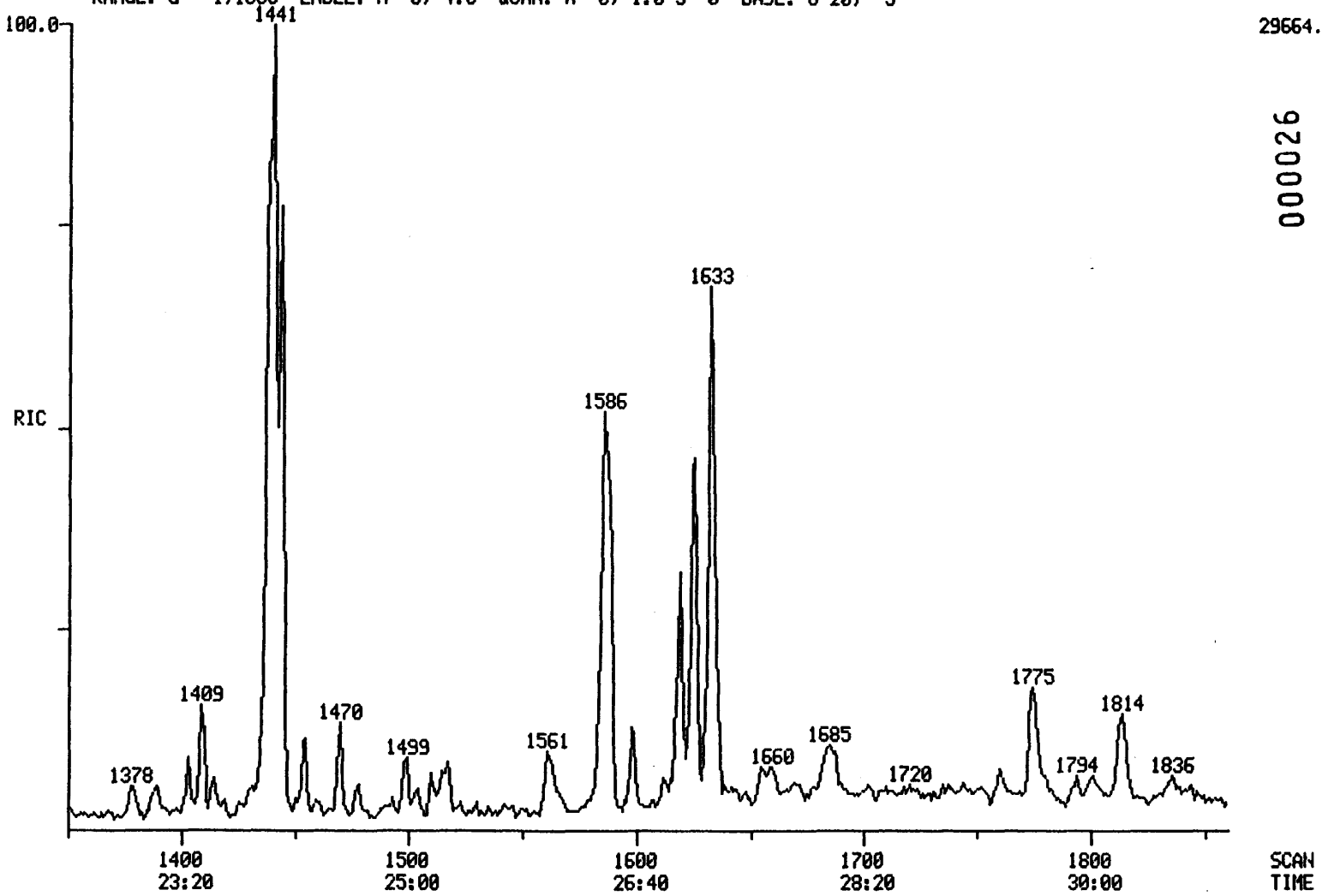
011530

CHESTER LABNET DC # ---14

RIC
04/24/93 15:58:00
SAMPLE: SCW2-4(MCD) G
CONDS.: ---
RANGE: G 1,1860 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4U04082C06B #1 SCANS 1350 TO 1860
CALI: 4U04082C06B #3



INST ID: 4530

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011531

011531

CHESTER LABNET DC # ---14

SEMIVOLATILE SOIL REPORT

011532

SAMPLE ID.	SCW2-4(MCD) G		
FILENAME	4U04082C06B	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	JZ
DATE INJECTED	04/24/93 15:58:00	VERIFIED BY	
CALIB STD DATE	04/17/93	CORR. FACTOR	13.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	ARE
419	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	260 MG/KG	1.000	113
602	CI40	NAPHTHALENE-D8 ** IS2 **	136	260 MG/KG	1.000	401
855	CI50	ACENAPHTHENE-D10 ** IS3 **	164	260 MG/KG	1.000	149
1062	CI60	PHENANTHRENE-D10 ** IS4 **	188	260 MG/KG	1.000	232
1441	CI70	CHRYSENE-D12 ** IS5 **	240	260 MG/KG	1.000	241
1633	CI75	PERYLENE-D12 ** IS6 **	264	260 MG/KG	1.000	213
1438	C730	BENZO(A)ANTHRACENE	228	244 MG/KG	0.998	227
1444	C740	CHRYSENE	228	208 MG/KG	1.002	187
1586	C765	BENZO(B)FLUORANTHENE	252	299 MG/KG	0.971	285
1586	C770	BENZO(K)FLUORANTHENE	252	264 MG/KG	0.971	285
1625	C775	BENZO(A)PYRENE	252	183 MG/KG	0.995	141
1775	C780	INDENO(1,2,3-CD)PYRENE	276	99 MG/KG	1.087	70

011533

INST ID: 4530 SAMPLE NUMBER: SCW2-4(C1/C2) G

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930408207 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C07
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/23/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	47	50
C740	CHRYSENE	47	8 J
C765	BENZO(B)FLUORANTHENE	47	54
C770	BENZO(K)FLUORANTHENE	47	33 J
C775	BENZO(A)PYRENE	47	48
C780	INDENO(1,2,3-CD)PYRENE	47	24 J
C785	DIBENZO(A,H)ANTHRACENE	47	10 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011534

INST ID: 4530 SAMPLE NUMBER: SCW2-4(C1/C2) G

ORGANICS ANALYSIS DATA SHEET -

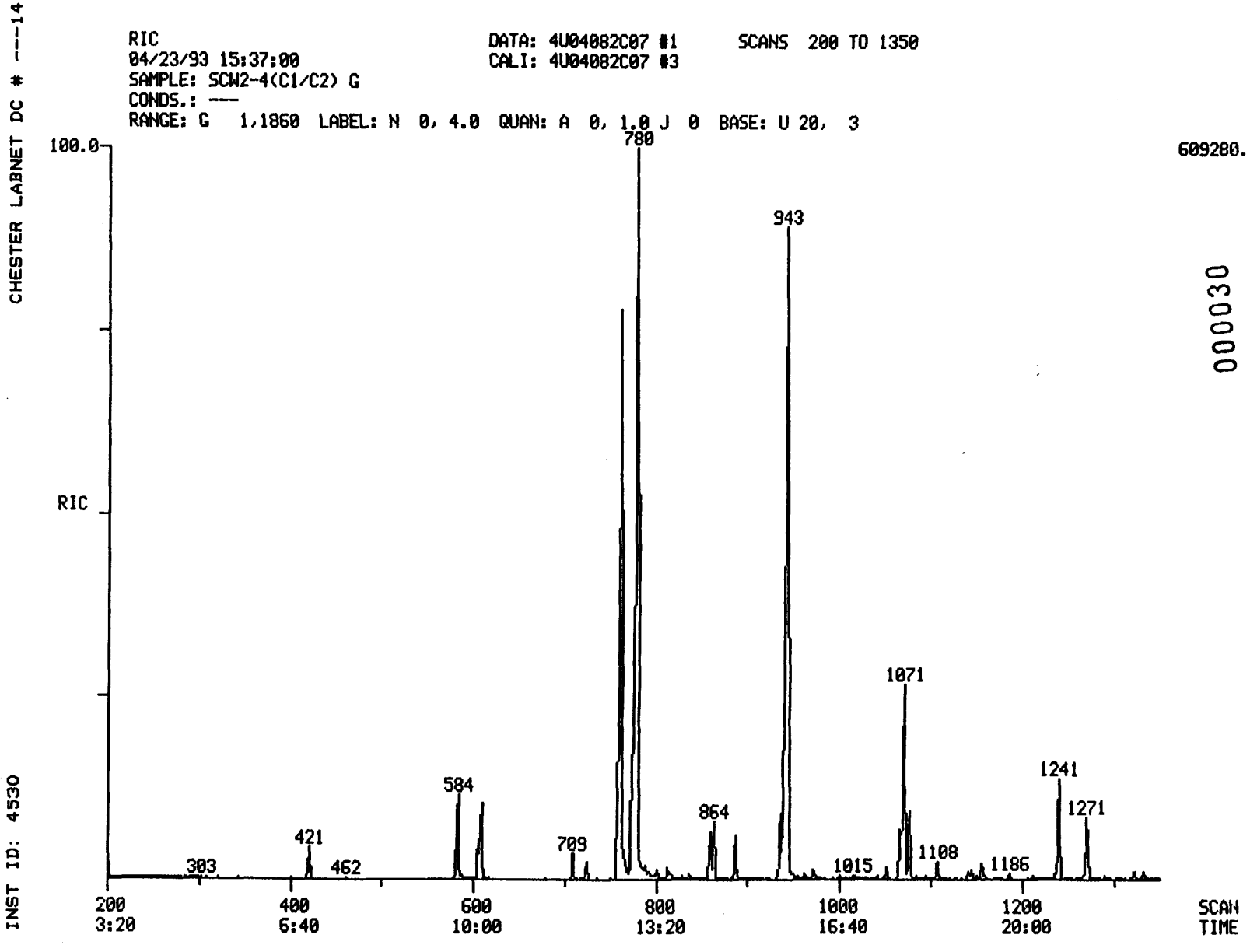
LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930408207 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C07
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/23/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	47	200
C540	ACENAPHTHYLENE	47	15 J
C550	ACENAPHTHENE	47	130
C590	FLUORENE	47	160
C640	PHENANTHRENE	47	430
C645	ANTHRACENE	47	140
C655	FLUORANTHENE	47	280
C715	PYRENE	47	190
C730	BENZO(A)ANTHRACENE	47	50
C740	CHRYSENE	47	8 J
C765	BENZO(B)FLUORANTHENE	47	54
C770	BENZO(K)FLUORANTHENE	47	33 J
C775	BENZO(A)PYRENE	47	48
C780	INDENO(1,2,3-CD)PYRENE	47	24 J
C785	DIBENZO(A,H)ANTHRACENE	47	10 J
C790	BENZO(GHI)PERYLENE	47	24 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



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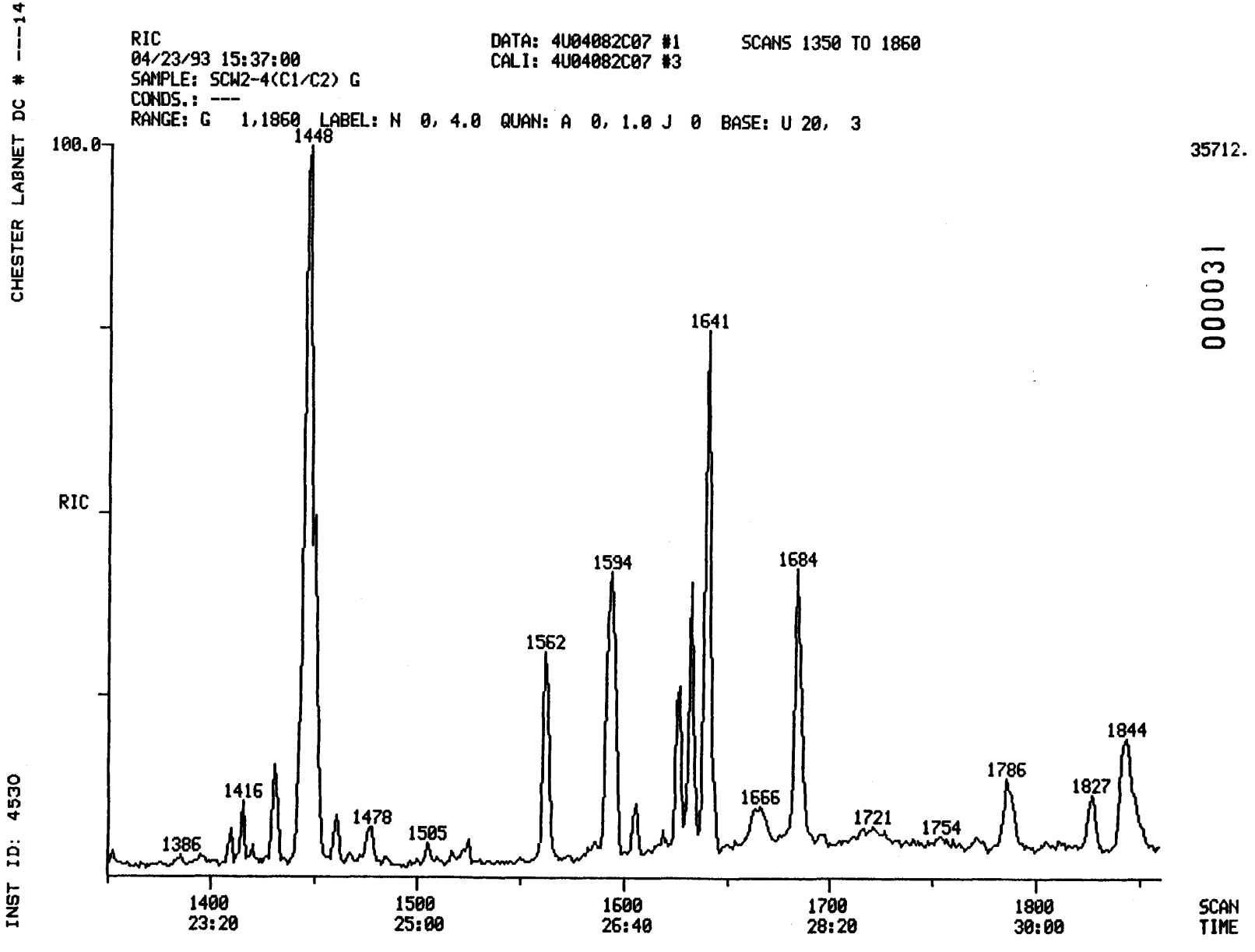
011535



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011536

011536

CHESTER LABNET DC # ---14

SEMIVOLATILE SOIL REPORT

011537

SAMPLE ID.	SCW2-4(C1/C2) G		
FILENAME	4U04082C07	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	SC
DATE INJECTED	04/23/93 15:37:00	VERIFIED BY	
CALIB STD DATE	04/17/93	CORR. FACTOR	4.70

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
421	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	94 MG/KG	1.000	762
606	CI40	NAPHTHALENE-D8 ** IS2 **	136	94 MG/KG	1.000	2909
859	CI50	ACENAPHTHENE-D10 ** IS3 **	164	94 MG/KG	1.000	2099
1067	CI60	PHENANTHRENE-D10 ** IS4 **	188	94 MG/KG	1.000	3337
1448	CI70	CHRYSENE-D12 ** IS5 **	240	94 MG/KG	1.000	3063
1641	CI75	PERYLENE-D12 ** IS6 **	264	94 MG/KG	1.000	3185
609	C450	NAPHTHALENE	128	197 MG/KG	1.005	5590
709	C470	2-METHYLNAPHTHALENE	142	68 MG/KG	1.170	1483
837	C540	ACENAPHTHYLENE	152	15 MG/KG	0.974	618
864	C550	ACENAPHTHENE	153	132 MG/KG	1.006	2955
887	C565	DIBENZOFURAN	168	90 MG/KG	1.033	3182
936	C590	FLUORENE	166	159 MG/KG	1.090	3752
1071	C640	PHENANTHRENE	178	426 MG/KG	1.004	16215
1077	C645	ANTHRACENE	178	142 MG/KG	1.009	4861
1241	C655	FLUORANTHENE	202	279 MG/KG	1.163	8651
1271	C715	PYRENE	202	188 MG/KG	0.878	5823
1450	C730	BENZO(A)ANTHRACENE	228	50 MG/KG	1.001	1899
1461	C740	CHRYSENE	228	8 MG/KG	1.009	226
1594	C765	BENZO(B)FLUORANTHENE	252	54 MG/KG	0.971	2353
1595	C770	BENZO(K)FLUORANTHENE	252	33 MG/KG	0.972	1103
1633	C775	BENZO(A)PYRENE	252	48 MG/KG	0.995	1560
1786	C780	INDENO(1,2,3-CD)PYRENE	276	24 MG/KG	1.088	759
1790	C785	DIBENZO(A,H)ANTHRACENE	278	10 MG/KG	1.091	249
1827	C790	BENZO(GHI)PERYLENE	276	24 MG/KG	1.113	639

SURROUGATES WERE DILUTED OUT

011538

INST ID: 4530 SAMPLE NUMBER: SC DUPLICATE G

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 9304082008 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C08A
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/24/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	130	250
C740	CHRYSENE	130	260
C765	BENZO(B)FLUORANTHENE	130	310
C770	BENZO(K)FLUORANTHENE	130	270
C775	BENZO(A)PYRENE	130	180
C780	INDENO(1,2,3-CD)PYRENE	130	110 J
C785	DIBENZO(A,H)ANTHRACENE	130	29 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011539

INST ID: 4530 SAMPLE NUMBER: SC DUPLICATE G

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 9304082008 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C08A
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/24/93

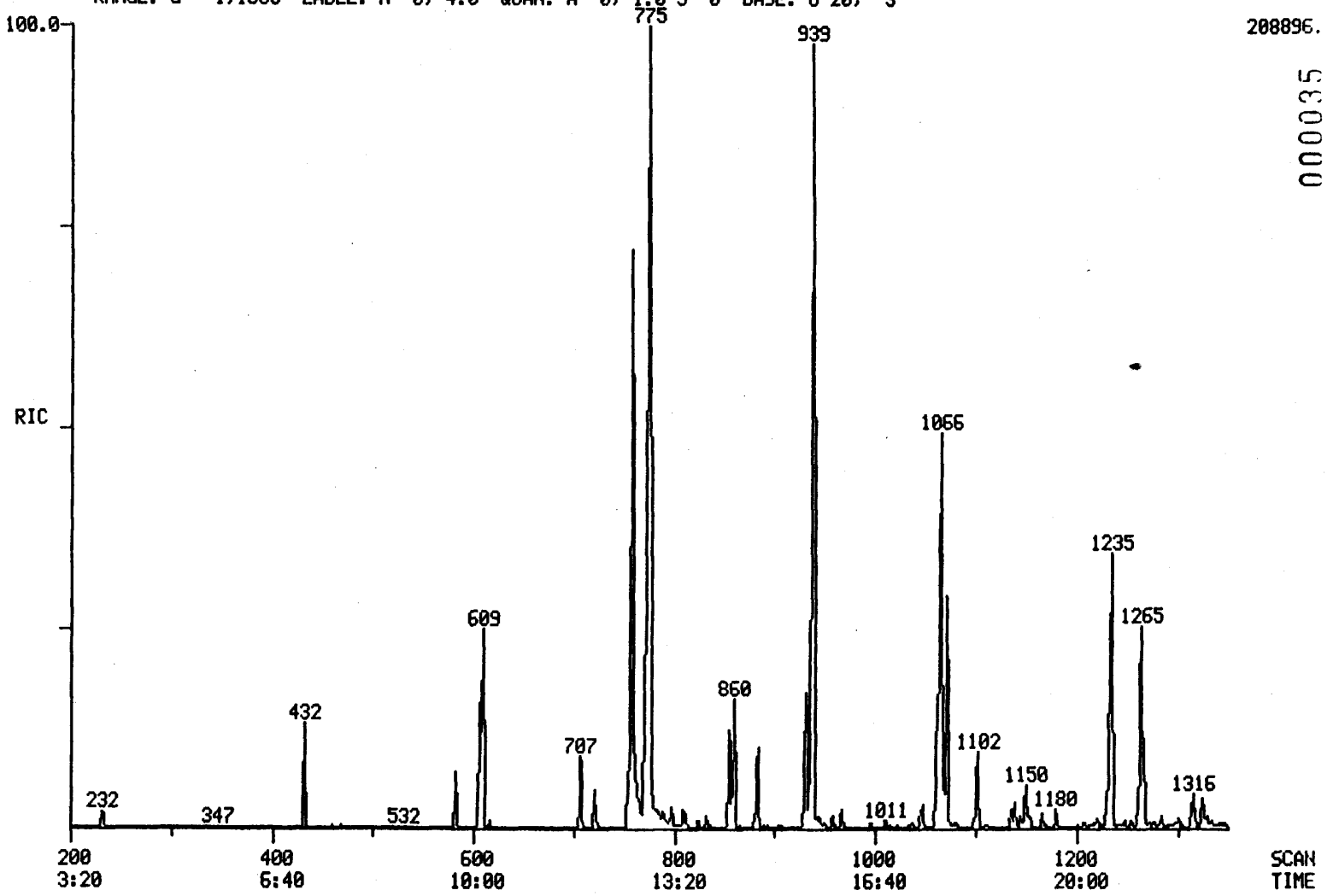
	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	130 U	
C540	ACENAPHTHYLENE	130 U	
C550	ACENAPHTHENE	130 U	
C590	FLUORENE	130 U	
C640	PHENANTHRENE	130 U	
C645	ANTHRACENE	130 U	
C655	FLUORANTHENE	130 U	
C715	PYRENE	130 U	
C730	BENZO(A)ANTHRACENE	130	250
C740	CHRYSENE	130	260
C765	BENZO(B)FLUORANTHENE	130	310
C770	BENZO(K)FLUORANTHENE	130	270
C775	BENZO(A)PYRENE	130	180
C780	INDENO(1,2,3-CD)PYRENE	130	110 J
C785	DIBENZO(A,H)ANTHRACENE	130	29 J
C790	BENZO(GHI)PERYLENE	130 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

CHESTER LABNET DC # ---14

RIC
04/24/93 16:44:00
SAMPLE: SC DUPLICATE G
CONDS.: ---
RANGE: G 1,1860 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4U04082C08A #1 SCANS 200 TO 1350
CALI: 4U04082C08A #3



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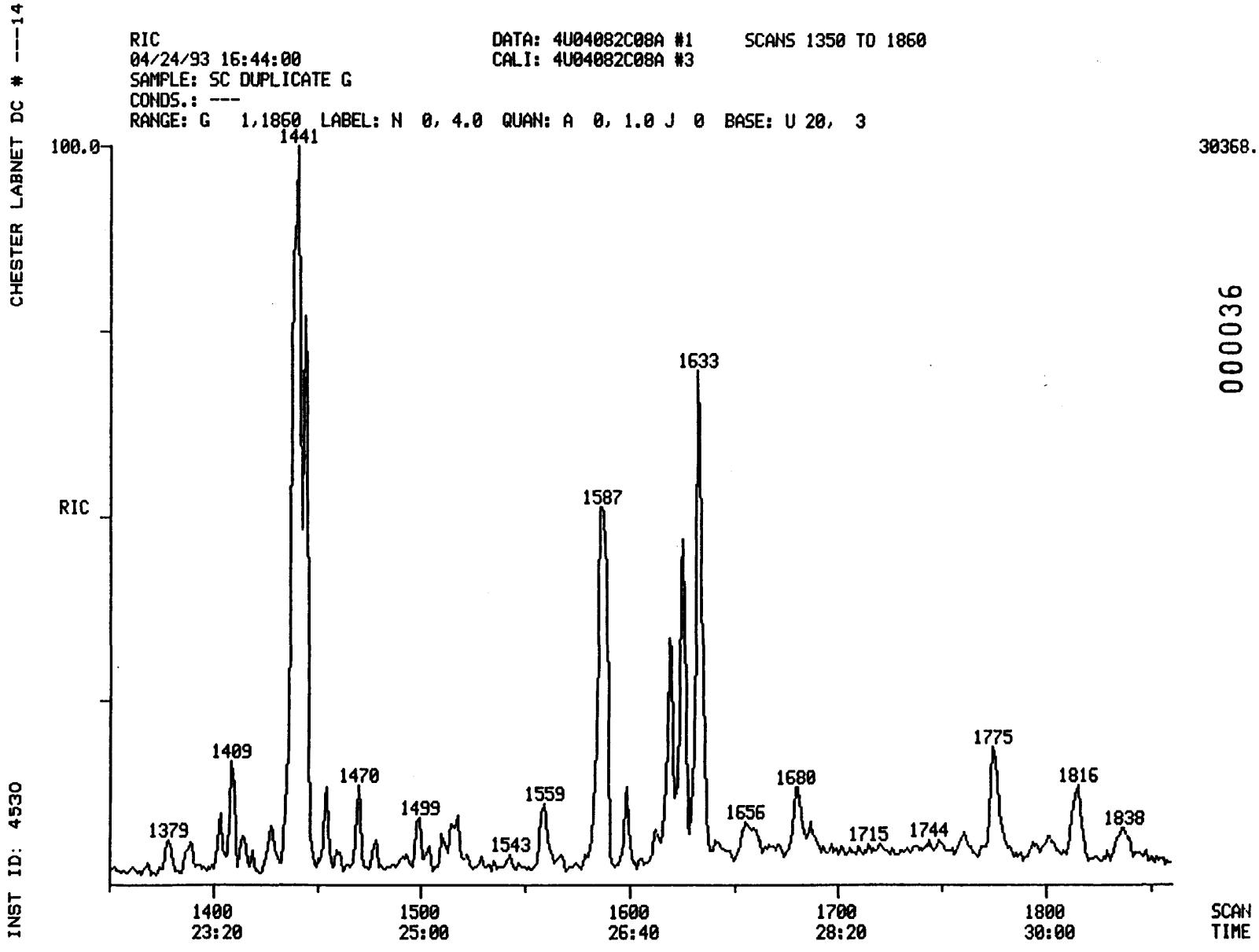
INST ID: 4530

011540



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011541

CHESTER LABNET DC # ---14

SEMIVOLATILE SOIL REPORT

011542

SAMPLE ID.	SC DUPLICATE G		
FILENAME	4U04082C08A	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	JZ
DATE INJECTED	04/24/93 16:44:00	VERIFIED BY	
CALIB STD DATE	04/17/93	CORR. FACTOR	13.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	ARE
432	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	260 MG/KG	1.000	92
607	CI40	NAPHTHALENE-D8 ** IS2 **	136	260 MG/KG	1.000	341
855	CI50	ACENAPHTHENE-D10 ** IS3 **	164	260 MG/KG	1.000	149
1062	CI60	PHENANTHRENE-D10 ** IS4 **	188	260 MG/KG	1.000	234
1441	CI70	CHRYSENE-D12 ** IS5 **	240	260 MG/KG	1.000	249
1633	CI75	PERYLENE-D12 ** IS6 **	264	260 MG/KG	1.000	218
1439	C730	BENZO(A)ANTHRACENE	228	253 MG/KG	0.999	243
1439	C740	CHRYSENE	228	262 MG/KG	0.999	243
1588	C765	BENZO(B)FLUORANTHENE	252	311 MG/KG	0.972	302
1588	C770	BENZO(K)FLUORANTHENE	252	275 MG/KG	0.972	302
1626	C775	BENZO(A)PYRENE	252	182 MG/KG	0.996	1431
1775	C780	INDENO(1,2,3-CD)PYRENE	276	107 MG/KG	1.087	77
1794	C785	DIBENZO(A,H)ANTHRACENE	278	29 MG/KG	1.099	16

*SURROGATES WERE DILUTED OUT

011542.001

INST ID: 4530 SAMPLE NUMBER: SCW2-4(DWC) G

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 9304082009 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C09A
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/24/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	200	380
C740	CHRYSENE	200	290
C765	BENZO(B)FLUORANTHENE	200	320
C770	BENZO(K)FLUORANTHENE	200	280
C775	BENZO(A)PYRENE	200	160 J
C780	INDENO(1,2,3-CD)PYRENE	200	54 J
C785	DIBENZO(A,H)ANTHRACENE	200 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011543

INST ID: 4530 SAMPLE NUMBER: SCW2-4(DWC) G

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 9304082009 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 4/12/93

SEMIVOLATILES

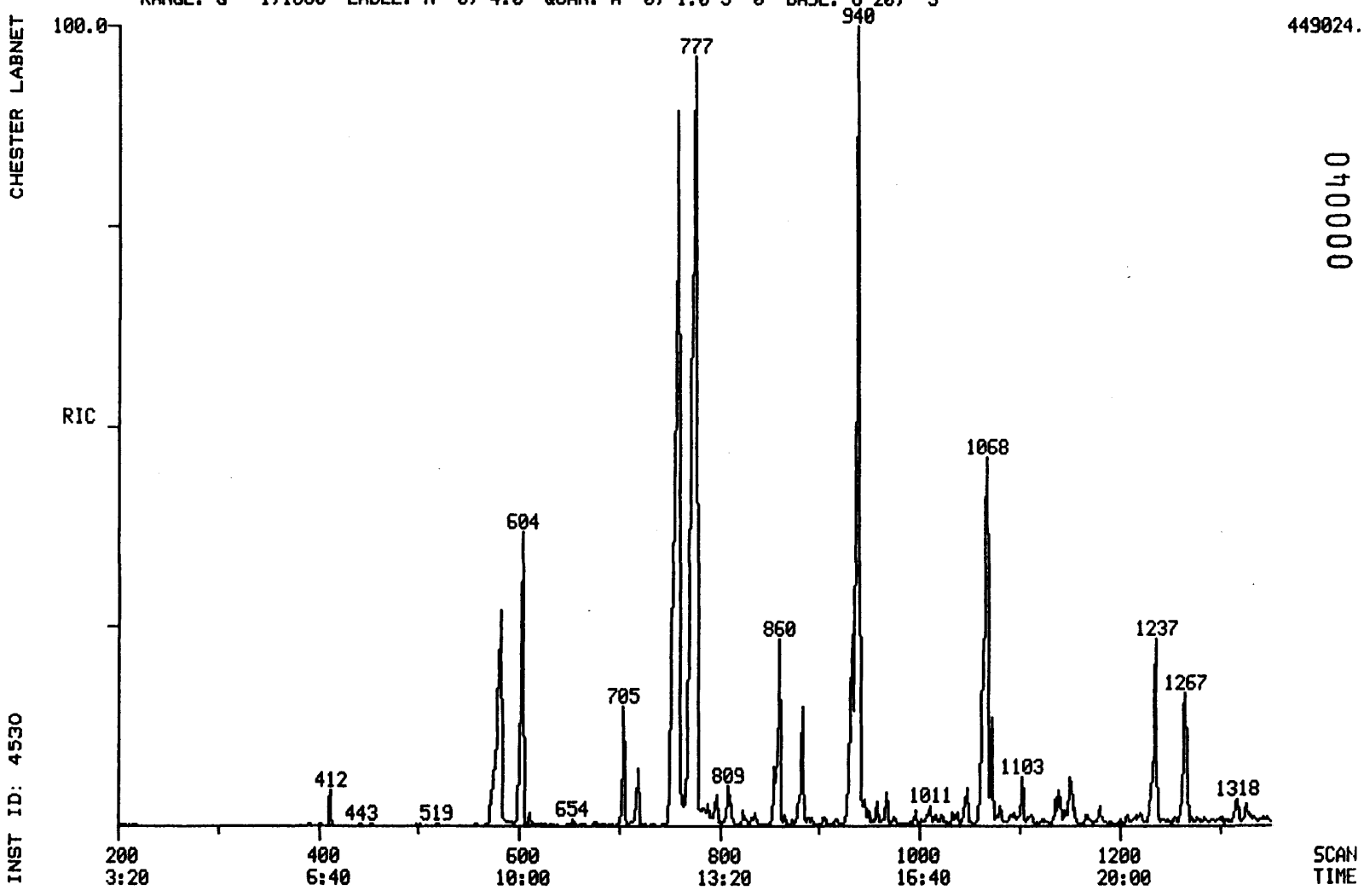
CONCENTRATION: LOW 4/3/93 DATAFILE: 4U04082C09A
DATE EXTRACTED: .....
DATE ANALYZED: 04/24/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	200 U	
C540	ACENAPHTHYLENE	200 U	
C550	ACENAPHTHENE	200 U	
C590	FLUORENE	200 U	
C640	PHENANTHRENE	200 U	
C645	ANTHRACENE	200 U	
C655	FLUORANTHENE	200 U	
C715	PYRENE	200 U	
C730	BENZO(A)ANTHRACENE	200	380
C740	CHRYSENE	200	290
C765	BENZO(B)FLUORANTHENE	200	320
C770	BENZO(K)FLUORANTHENE	200	280
C775	BENZO(A)PYRENE	200	160 J
C780	INDENO(1,2,3-CD)PYRENE	200	54 J
C785	DIBENZO(A,H)ANTHRACENE	200 U	
C790	BENZO(GHI)PERYLENE	200 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

RIC
04/24/93 17:24:00
SAMPLE: SCW2-4(DWC) G
CONDS.: ---
RANGE: G 1,1860 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4U04082C09A #1 SCANS 200 TO 1350
CALI: 4U04082C09A #3



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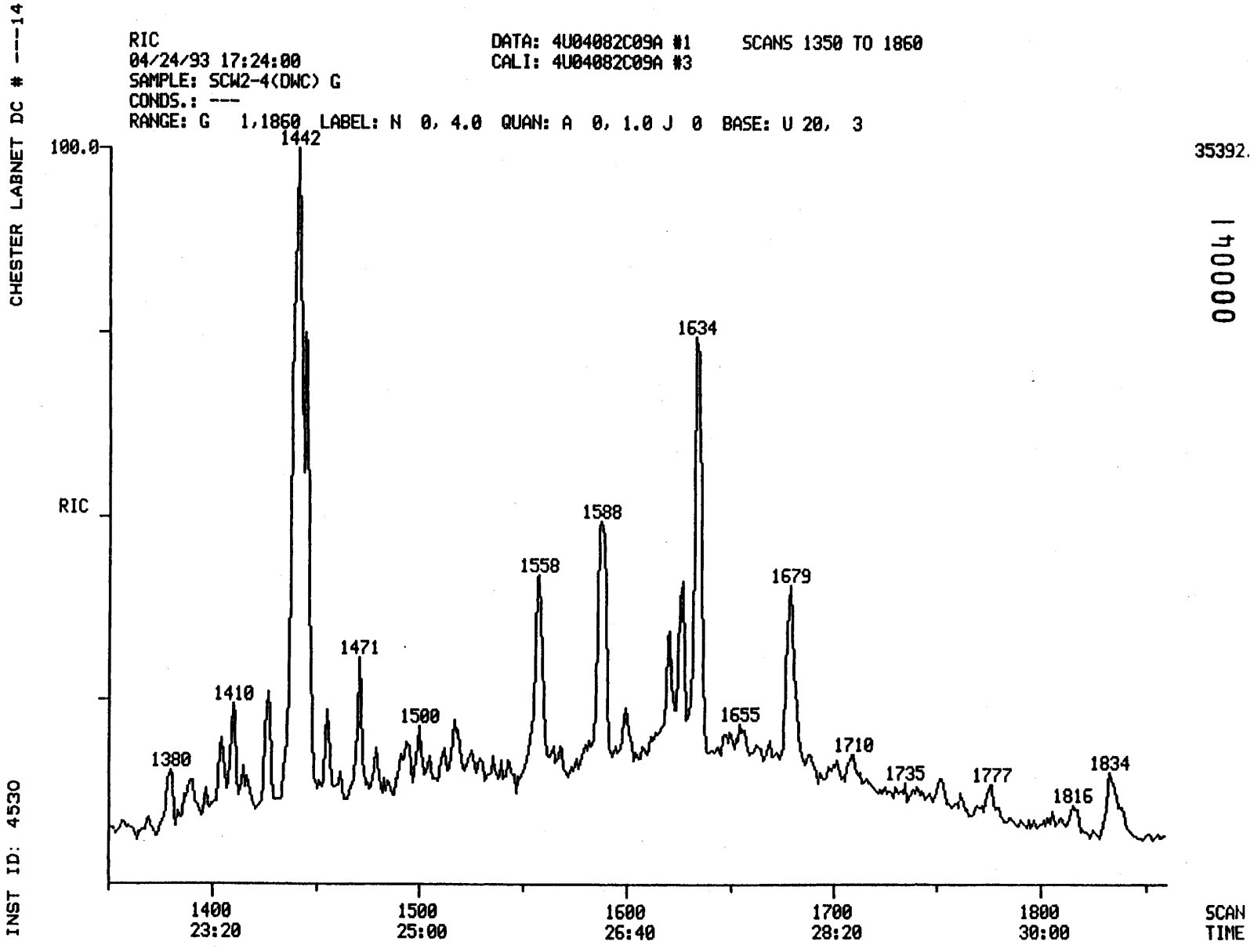

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011545

CHESTER LABNET DC # ---14

SEMIVOLATILE SOIL REPORT

011546

SAMPLE ID.	SCW2-4(DWC) G		
FILENAME	4U04082C09A	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	JZ
DATE INJECTED	04/24/93 17:24:00	VERIFIED BY	
CALIB STD DATE	04/17/93	CORR. FACTOR	20.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	ARE
412	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	400 MG/KG	1.000	68
601	CI40	NAPHTHALENE-D8 ** IS2 **	136	400 MG/KG	1.000	328
855	CI50	ACENAPHTHENE-D10 ** IS3 **	164	400 MG/KG	1.000	166
1063	CI60	PHENANTHRENE-D10 ** IS4 **	188	400 MG/KG	1.000	279
1442	CI70	CHRYSENE-D12 ** IS5 **	240	400 MG/KG	1.000	263
1634	CI75	PERYLENE-D12 ** IS6 **	264	400 MG/KG	1.000	226
1440	C730	BENZO(A)ANTHRACENE	228	375 MG/KG	0.999	248
1445	C740	CHRYSENE	228	285 MG/KG	1.002	182
1588	C765	BENZO(B)FLUORANTHENE	252	316 MG/KG	0.972	207
1588	C770	BENZO(K)FLUORANTHENE	252	279 MG/KG	0.972	207
1626	C775	BENZO(A)PYRENE	252	157 MG/KG	0.995	83
1776	C780	INDENO(1,2,3-CD)PYRENE	276	54 MG/KG	1.087	26

*SURROGATES WERE DILUTED OUT

011547

CALIBRATIONS

CHESTER LABNET-HOUSTON

000043

011548

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. -- CONTRACT LAB: CHESTER LABNET

CONTRACT NO. -- INSTRUMENT IDENTIFIER: 4530

CALIBRATION DATE: 04/17/93

STANDARD FILE: ES0423C02A

DATE: 04/23/93 TIME: 8:51

MAXIMUM % D FOR CCC IS 20

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.669	1.706	2.215
C325	BIS(2-CHLOROETHYL)ETHE	1.673	1.783	6.570
C330	2-CHLOROPHENOL	1.393	1.389	-0.249
C335	1,3-DICHLOROBENZENE	1.481	1.448	-2.230
C340	1,4-DICHLOROBENZENE	1.561	1.516	-2.878
C345	BENZYL ALCOHOL	0.909	0.866	-4.653
C350	1,2-DICHLOROBENZENE	1.491	1.502	0.749
C355	2-METHYLPHENOL	1.214	1.403	15.524
C357	2,2'-OXYBIS(1-CHLOROPR	2.394	2.582	7.860
C365	4-METHYLPHENOL	1.295	1.403	8.337
C370	N-NITROSODIPROPYLAMINE	1.137	1.564	37.536
C375	HEXACHLOROETHANE	0.619	0.746	20.530
C410	NITROBENZENE	0.405	0.482	18.905
C415	ISOPHORONE	0.784	0.887	13.097
C420	2-NITROPHENOL	0.211	0.199	-5.820
C425	2,4-DIMETHYLPHENOL	0.297	0.347	16.925
C430	BENZOIC ACID	0.226	0.236	4.446
C435	BIS(2-CHLOROETHOXY)MET	0.493	0.516	4.629
C440	2,4-DICHLOROPHENOL	0.273	0.282	3.340
C445	1,2,4-TRICHLOROBENZENE	0.296	0.289	-2.195
C450	NAPHTHALENE	1.049	0.919	-12.416
C455	4-CHLOROANILINE	0.418	0.234	-44.020
C460	HEXACHLOROBUTADIENE	0.148	0.170	15.297
C465	P-CHLORO-M-CRESOL	0.284	0.337	18.532
C470	2-METHYLNAPHTHALENE	0.754	0.704	-6.582
C510	HEXACHLOROCYCLOPENTADI	0.356	0.419	17.525
C515	2,4,6-TRICHLOROPHENOL	0.453	0.373	-17.583
C520	2,4,5-TRICHLOROPHENOL	0.342	0.414	21.166
C525	2-CHLORONAPHTHALENE	1.285	1.256	-2.254
C530	2-NITROANILINE	0.468	0.655	40.054
C535	DIMETHYL PHTHALATE	1.522	1.560	2.497
C540	ACENAPHTHYLENE	2.030	1.798	-11.432
C545	3-NITROANILINE	0.355	0.209	-41.135
C550	ACENAPHTHENE	1.129	1.001	-11.289
C555	2,4-DINITROPHENOL	0.218	0.184	-15.388
C560	4-NITROPHENOL	0.124	0.275	121.186
C565	DIBENZOFURAN	1.706	1.586	-7.027
C570	2,4-DINITROTOLUENE	0.441	0.409	-7.221
C543	2,6-DINITROTOLUENE	0.365	0.346	-5.053
C580	DIETHYL PHTHALATE	1.556	1.586	1.914
C585	4-CHLOROPHENYL PHENYL	0.706	0.630	-10.709
C590	FLUORENE	1.322	1.060	-19.853
C595	4-NITROANILINE	0.271	0.218	-19.603
C610	4,6-DINITRO-2-METHYLPH	0.168	0.169	0.522
C615	N-NITROSODIPHENYLAMINE	0.621	0.645	3.879
C625	4-BROMOPHENYL PHENYL E	0.222	0.233	5.099
C630	HEXACHLOROBENZENE	0.229	0.230	0.156
C635	PENTACHLOROPHENOL	0.152	0.130	-14.233
C640	PHENANTHRENE	1.340	1.072	-19.961
C645	ANTHRACENE	1.018	0.968	-4.939
C650	DI-N-BUTYL PHTHALATE	1.590	1.563	-1.706
C655	FLUORANTHENE	1.129	0.874	-22.597

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C715	PYRENE	1.323	0.949	-28.269
C720	BUTYL BENZYL PHTHALATE	0.790	0.837	5.941
C725	3,3'-DICHLOROBENZIDINE	0.384	0.273	-28.838
C730	BENZO(A)ANTHRACENE	1.347	1.177	-12.636
C745	BIS(2-ETHYLHEXYL)PHTHA	1.059	1.195	12.827
C740	CHRYSENE	0.944	0.912	-3.344
C760	DI-N-OCTYL PHTHALATE	1.913	2.107	10.161
C765	BENZO(B)FLUORANTHENE	1.429	1.282	-10.274
C770	BENZO(K)FLUORANTHENE	1.181	1.000	-15.358
C775	BENZO(A)PYRENE	1.094	0.959	-12.274
C780	INDENO(1,2,3-CD)PYRENE	1.124	0.936	-16.730
C785	DIBENZO(A,H)ANTHRACENE	0.927	0.771	-16.824
C790	BENZO(GHI)PERYLENE	0.953	0.781	-18.055
C310	N-NITROSODIMETHYLAMINE	1.067	1.496	40.176
C620	1,2-DIPHENYL-HYDRAZINE	1.079	1.132	4.870
C320	ANILINE	2.058	1.446	-29.714
CS50	2-FLUOROPHENOL ** SU1	1.330	1.623	21.981
CS45	PHENOL-D5 ** SU2 **	1.715	2.091	21.904
CS55	2,4,6-TRIBROMOPHENOL	0.182	0.173	-5.006
CS20	NITROBENZENE-D5 ** SU3	0.400	0.515	28.706
CS25	2-FLUOROBIPHENYL **SU4	1.328	1.435	8.079
CS30	TERPHENYL-D14 ** SU6	1.170	1.068	-8.709
CS70	2-CHLOROPHENOL-D4 ** S	1.781	1.966	10.388
CS75	1,2-DICHLOROBENZENE-D4	0.879	0.951	8.258
C647	CARBAZOLE	0.851	0.720	-15.356
CC65	3+4-METHYLPHENOL			
A950	PYRIDINE	1.763	2.193	24.385

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CHESTER LABNET DC # ---17

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4530

LAB ID. ES0423C02A

CLIENT CHESTER ANALYST SC

DATE INJECTED 04/23/93 8:51:00 VERFIED BY

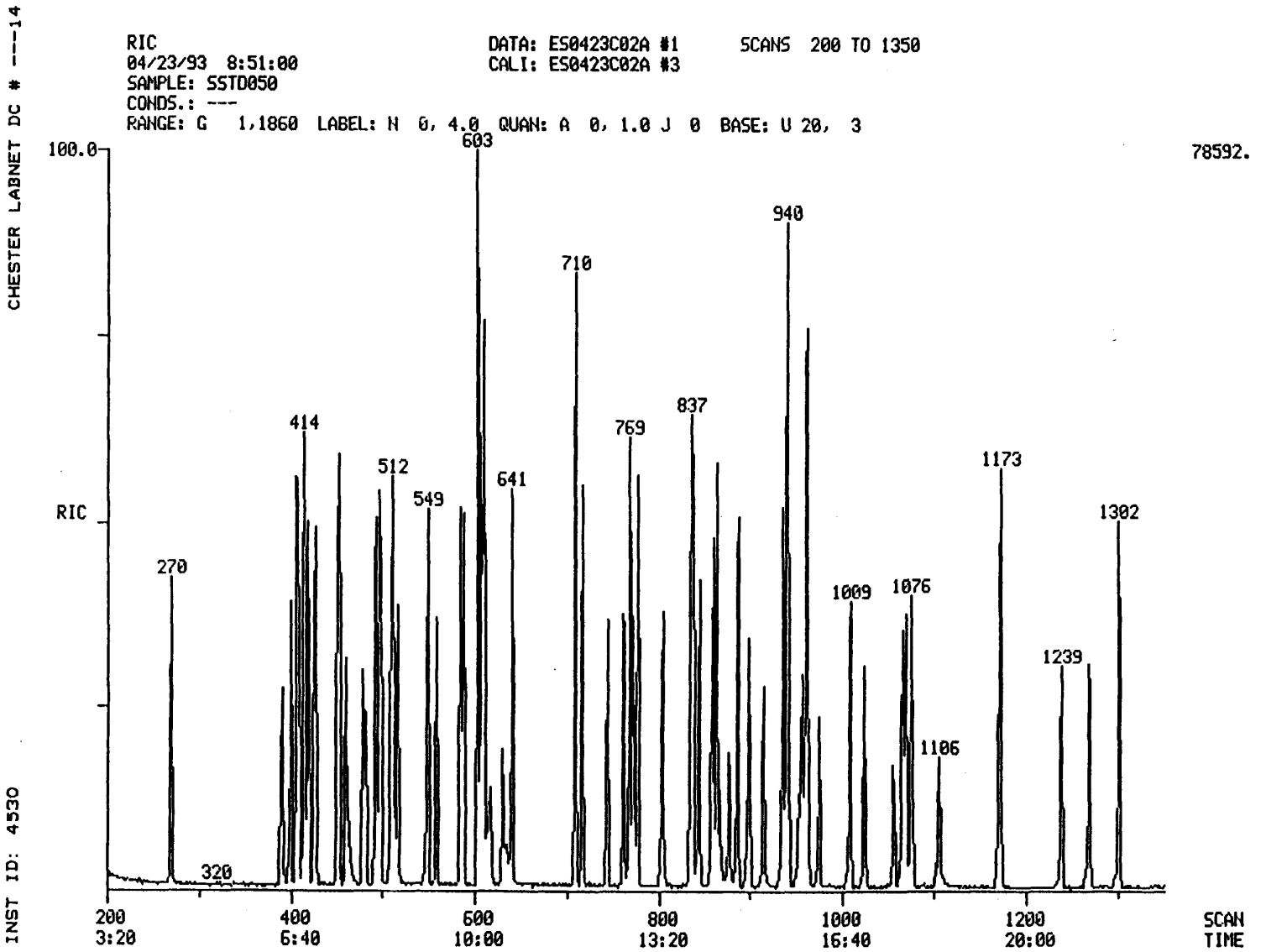
	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS1**		152	425	40	9271	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **		136	607	40	40965	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **		164	859	40	18740	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **		188	1066	40	25129	1.000	1.000
CI70	CHRYSENE-D12 ** IS5 **		240	1446	40	24474	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **		264	1638	40	23786	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **		112	270	50	18803	0.635	1.623
CS45	PHENOL-D5 ** SU2 **		99	414	50	24236	0.974	2.091
CS55	2,4,6-TRIBROMOPHENOL ** SU5 **		330	974	50	4042	1.134	0.173
CS20	NITROBENZENE-D5 ** SU3 **		82	509	50	26357	0.839	0.515
CS25	2-FLUOROBIPHENYL **SU4 **		172	769	50	33622	0.895	1.435
CS30	TERPHENYL-D14 ** SU6 **		244	1302	50	32671	0.900	1.068
C315	PHENOL	10A	94	415	50	19776	0.976	1.706
C325	BIS(2-CHLOROETHYL)ETHER	11B	93	400	50	20662	0.941	1.783
C330	2-CHLOROPHENOL	1A	128	408	50	16100	0.960	1.389
C335	1,3-DICHLOROBENZENE	21B	146	419	50	16783	0.986	1.448
C340	1,4-DICHLOROBENZENE	22B	146	427	50	17571	1.005	1.516
C345	BENZYL ALCOHOL		108	460	50	10041	1.082	0.866
C350	1,2-DICHLOROBENZENE	20B	146	453	50	17408	1.066	1.502
C355	2-METHYLPHENOL		108	516	50	16254	1.214	1.403
C357	2,2'-OXYBIS(1-CHLOROPROPANE)		45	479	50	29923	1.127	2.582
C365	4-METHYLPHENOL		108	516	50	16254	1.214	1.403
C370	N-NITROSODIPROPYLAMINE	42B	70	499	50	18130	1.174	1.564
C375	HEXACHLOROETHANE	36B	117	496	50	8645	1.167	0.746
C410	NITROBENZENE	40B	77	512	50	24662	0.843	0.482
C415	ISOPHORONE	38B	82	549	50	45402	0.904	0.887
C420	2-NITROPHENOL	6A	139	558	50	10177	0.919	0.199
C425	2,4-DIMETHYLPHENOL	3A	107	585	50	17758	0.964	0.347
C430	BENZOIC ACID		122	618	50	12075	1.018	0.236
C435	BIS(2-CHLOROETHOXY)METHANE	10B	93	588	50	26420	0.969	0.516
C440	2,4-DICHLOROPHENOL	2A	162	603	50	14443	0.993	0.282
C445	1,2,4-TRICHLOROBENZENE	46B	180	603	50	14815	0.993	0.289
C450	NAPHTHALENE	39B	128	610	50	47053	1.005	0.919
C455	4-CHLOROANILINE		127	630	50	11981	1.038	0.234
C460	HEXACHLOROBUTADIENE	34B	225	641	50	8715	1.056	0.170
C465	P-CHLORO-M-CRESOL	8A	107	717	50	17257	1.181	0.337
C470	2-METHYLNAPHTHALENE		142	710	50	36043	1.170	0.704
C510	HEXACHLOROCYCLOPENTADIENE	35B	237	744	50	9816	0.866	0.419
C515	2,4,6-TRICHLOROPHENOL	11A	196	762	50	8737	0.887	0.373
C520	2,4,5-TRICHLOROPHENOL		196	772	50	9699	0.899	0.414
C525	2-CHLORONAPHTHALENE	16B	162	778	50	29429	0.906	1.256
C530	2-NITROANILINE		65	805	50	15349	0.937	0.655
C535	DIMETHYL PHTHALATE	25B	163	838	50	36546	0.976	1.560
C540	ACENAPHTHYLENE	2B	152	836	50	42110	0.973	1.798
C545	3-NITROANILINE		138	867	50	4893	1.009	0.209
C550	ACENAPHTHENE	1B	153	863	50	23458	1.005	1.001

CHESTER LABNET DC # ---17

SV STANDARD REPORT PAGE 2

DATAFILE ES0423C02A

	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	5A	184	877	50	4313	1.021	0.184
C560	4-NITROPHENOL	7A	109	914	50	6452	1.064	0.275
C565	DIBENZOFURAN		168	886	50	37148	1.031	1.586
C570	2,4-DINITROTOLUENE	27B	165	899	50	9582	1.047	0.409
C543	2,6-DINITROTOLUENE	28B	165	845	50	8115	0.984	0.346
C580	DIETHYL PHTHALATE	24B	149	940	50	37148	1.094	1.586
C585	4-CHLOROPHENYL PHENYL ETHER	17B	204	941	50	14763	1.095	0.630
C590	FLUORENE	32B	166	935	50	24825	1.088	1.060
C595	4-NITROANILINE		138	953	50	5096	1.109	0.218
C610	4,6-DINITRO-2-METHYLPHENOL	4A	198	956	50	5311	0.897	0.169
C615	N-NITROSODIPHENYLAMINE	43B	169	961	50	20274	0.902	0.645
C625	4-BROMOPHENYL PHENYL ETHER	14B	248	1008	50	7330	0.946	0.233
C630	HEXACHLOROBENZENE	33B	284	1024	50	7219	0.961	0.230
C635	PENTACHLOROPHENOL	9A	266	1056	50	4085	0.991	0.130
C640	PHENANTHRENE	44B	178	1069	50	33674	1.003	1.072
C645	ANTHRACENE	3B	178	1076	50	30395	1.009	0.968
C650	DI-N-BUTYL PHTHALATE	26B	149	1173	50	49084	1.100	1.563
C655	FLUORANTHENE	31B	202	1239	50	27441	1.162	0.874
C715	PYRENE	45B	202	1269	50	29032	0.878	0.949
C720	BUTYL BENZYL PHTHALATE	15B	149	1384	50	25604	0.957	0.837
C725	3,3'-DICHLOROBENZIDINE	23B	252	1449	50	8360	1.002	0.273
C730	BENZO(A)ANTHRACENE	5B	228	1444	50	35996	0.999	1.177
C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B	149	1475	50	36568	1.020	1.195
C740	CHRYSENE	18B	228	1449	50	27905	1.002	0.912
C760	DI-N-OCTYL PHTHALATE	29B	149	1559	50	62657	0.952	2.107
C765	BENZO(B)FLUORANTHENE	7B	252	1591	50	38117	0.971	1.282
C770	BENZO(K)FLUORANTHENE	9B	252	1594	50	29719	0.973	0.999
C775	BENZO(A)PYRENE	6B	252	1631	50	28521	0.996	0.959
C780	INDENO(1,2,3-CD)PYRENE	37B	276	1785	50	27817	1.090	0.936
C785	DIBENZO(A,H)ANTHRACENE	19B	278	1789	50	22927	1.092	0.771
C790	BENZO(GHI)PERYLENE	8B	276	1826	50	23228	1.115	0.781
C310	N-NITROSODIMETHYLAMINE	41B	74	125	50	17334	0.294	1.496
C710	BENZIDINE	4B						
CS70	2-CHLOROPHENOL-D4 ** SU7 **		132	406	50	22782	0.955	1.966
CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **		152	451	50	11023	1.061	0.951
C647	CARBAZOLE		167	1106	50	22630	1.038	0.720
C320	ANILINE		93	390	50	16759	0.918	1.446
A950	PYRIDINE		79	126	50	25412	0.296	2.193
C620	1,2-DIPHENYL-HYDRAZINE	30B						



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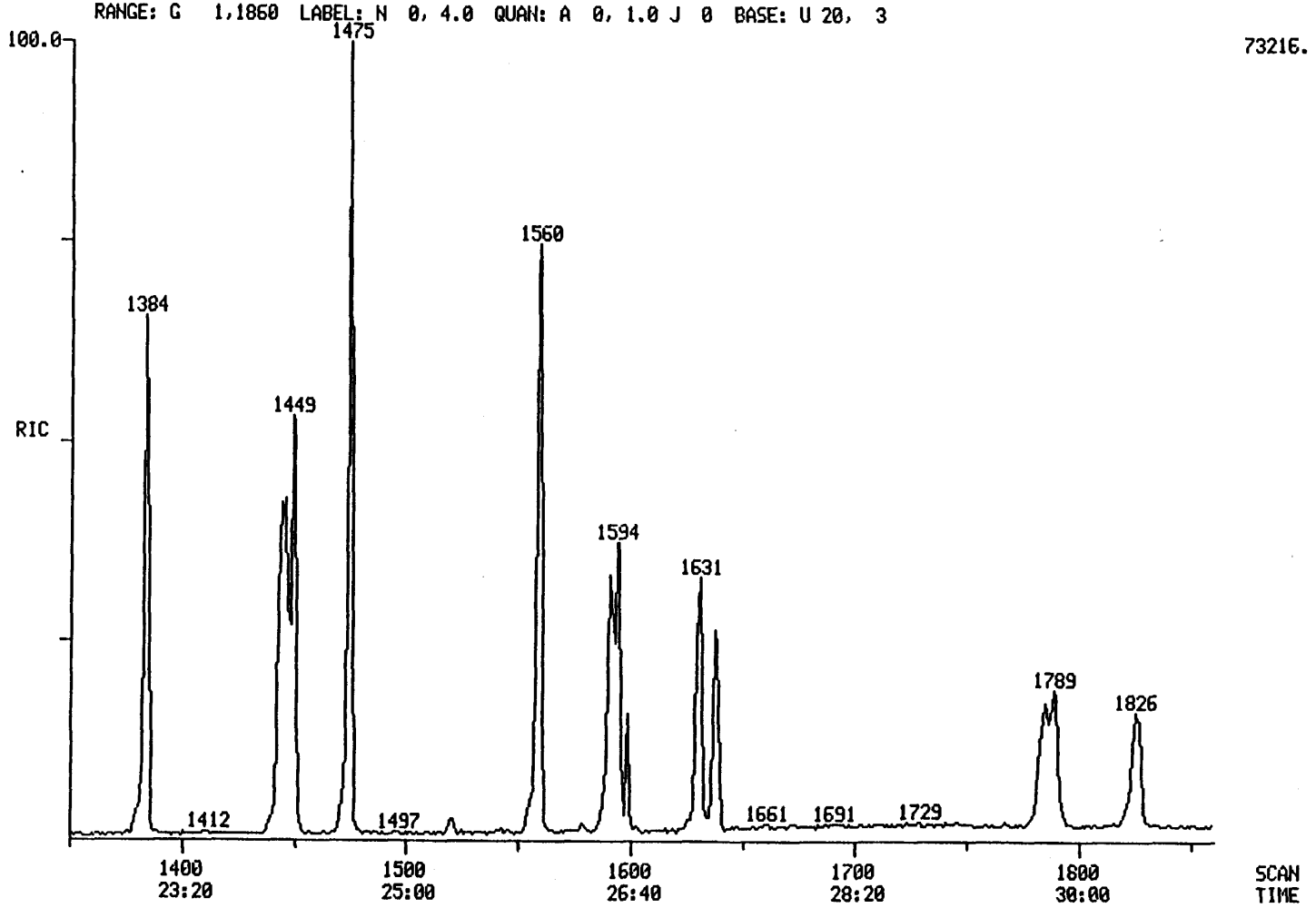
CHESTER LABNET DC # ---14

RIC
04/23/93 8:51:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1860 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: ES0423C02A #1 SCANS 1350 TO 1860
CALI: ES0423C02A #3



INST ID: 4530

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Quantitation Report File: ES0423C02A

Data: ES0423C02A.TI
04/23/93 8:51:00
Sample: SSTD050
Conds.: ---
Formula: 04/17/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: SC Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1**	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL **SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

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No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	425	7:05	1	1.000	A BB	9271.	40.000 UG/L	0.98
2	136	607	10:07	2	1.000	A BB	40965.	40.000 UG/L	0.98
3	164	859	14:19	3	1.000	A BB	18740.	40.000 UG/L	0.98
4	188	1066	17:46	4	1.000	A BB	25129.	40.000 UG/L	0.98
5	240	1446	24:06	5	1.000	A BB	24474.	40.000 UG/L	0.98
6	264	1638	27:18	6	1.000	A BB	23786.	40.000 UG/L	0.98
7	112	270	4:30	1	0.635	A BB	18803.	50.000 UG/L	1.22
8	99	414	6:54	1	0.974	A BB	24236.	50.000 UG/L	1.22
9	330	974	16:14	3	1.134	A BB	4042.	50.000 UG/L	1.22
10	82	509	8:29	2	0.839	A BB	26357.	50.000 UG/L	1.22
11	172	769	12:49	3	0.895	A BB	33622.	50.000 UG/L	1.22
12	244	1302	21:42	5	0.900	A BB	32671.	50.000 UG/L	1.22
13	94	415	6:55	1	0.976	A BB	19776.	50.000 UG/L	1.22
14	93	400	6:40	1	0.941	A VV	20662.	50.000 UG/L	1.22
15	128	408	6:48	1	0.960	A BB	16100.	50.000 UG/L	1.22
16	146	419	6:59	1	0.986	M XX	16783.	50.000 UG/L	1.22
17	146	427	7:07	1	1.005	A BB	17571.	50.000 UG/L	1.22
18	108	460	7:40	1	1.082	A BB	10041.	50.000 UG/L	1.22
19	146	453	7:33	1	1.066	A BB	17408.	50.000 UG/L	1.22
20	108	516	8:36	1	1.214	A BB	16254.	50.000 UG/L	1.22
21	45	479	7:59	1	1.127	A BB	29923.	50.000 UG/L	1.22
22	108	516	8:36	1	1.214	A BB	16254.	50.000 UG/L	1.22
23	70	499	8:19	1	1.174	A BB	18130.	50.000 UG/L	1.22
24	117	496	8:16	1	1.167	A BB	8645.	50.000 UG/L	1.22
25	77	512	8:32	2	0.843	A BV	24662.	50.000 UG/L	1.22
26	82	549	9:09	2	0.904	A BB	45402.	50.000 UG/L	1.22
27	139	558	9:18	2	0.919	A BB	10177.	50.000 UG/L	1.22
28	107	585	9:45	2	0.964	A BB	17758.	50.000 UG/L	1.22
29	122	618	10:18	2	1.018	A BB	12075.	50.000 UG/L	1.22
30	93	588	9:48	2	0.969	A BB	26420.	50.000 UG/L	1.22
31	162	603	10:03	2	0.993	A BB	14443.	50.000 UG/L	1.22
32	180	603	10:03	2	0.993	A BB	14815.	50.000 UG/L	1.22
33	128	610	10:10	2	1.005	A BB	47053.	50.000 UG/L	1.22
34	127	630	10:30	2	1.038	A BB	11981.	50.000 UG/L	1.22
35	225	641	10:41	2	1.056	A BB	8715.	50.000 UG/L	1.22
36	107	717	11:57	2	1.181	A BB	17257.	50.000 UG/L	1.22
37	142	710	11:50	2	1.170	A BV	36043.	50.000 UG/L	1.22
38	237	744	12:24	3	0.866	A BB	9816.	50.000 UG/L	1.22
39	196	762	12:42	3	0.887	A BB	8737.	50.000 UG/L	1.22
40	196	772	12:52	3	0.899	A BB	9699.	50.000 UG/L	1.22
41	162	778	12:58	3	0.906	A BB	29429.	50.000 UG/L	1.22
42	65	805	13:25	3	0.937	A BB	15349.	50.000 UG/L	1.22
43	163	838	13:58	3	0.976	A BB	36546.	50.000 UG/L	1.22
44	152	836	13:56	3	0.973	A BB	42110.	50.000 UG/L	1.22
45	138	867	14:27	3	1.009	A BV	4893.	50.000 UG/L	1.22
46	153	863	14:23	3	1.005	A BB	23458.	50.000 UG/L	1.22
47	184	877	14:37	3	1.021	A BB	4313.	50.000 UG/L	1.22
48	109	914	15:14	3	1.064	A BB	6452.	50.000 UG/L	1.22
49	168	886	14:46	3	1.031	A BB	37148.	50.000 UG/L	1.22
50	165	899	14:59	3	1.047	A BB	9582.	50.000 UG/L	1.22

011555

011556

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:19	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	24:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:30	1.00	0.635	1.00	50.00	50.00	1.623	1.623	1.00
8	6:54	1.00	0.974	1.00	50.00	50.00	2.091	2.091	1.00
9	16:14	1.00	1.134	1.00	50.00	50.00	0.173	0.173	1.00
10	8:29	1.00	0.839	1.00	50.00	50.00	0.515	0.515	1.00
11	12:49	1.00	0.895	1.00	50.00	50.00	1.435	1.435	1.00
12	21:42	1.00	0.900	1.00	50.00	50.00	1.068	1.068	1.00
13	6:55	1.00	0.976	1.00	50.00	50.00	1.706	1.706	1.00
14	6:40	1.00	0.941	1.00	50.00	50.00	1.783	1.783	1.00
15	6:48	1.00	0.960	1.00	50.00	50.00	1.389	1.389	1.00
16	6:59	1.00	0.986	1.00	50.00	50.00	1.448	1.448	1.00
17	7:07	1.00	1.005	1.00	50.00	50.00	1.516	1.516	1.00
18	7:40	1.00	1.082	1.00	50.00	50.00	0.866	0.866	1.00
19	7:33	1.00	1.066	1.00	50.00	50.00	1.502	1.502	1.00
20	8:36	1.00	1.214	1.00	50.00	50.00	1.403	1.403	1.00
21	7:59	1.00	1.127	1.00	50.00	50.00	2.582	2.582	1.00
22	8:36	1.00	1.214	1.00	50.00	50.00	1.403	1.403	1.00
23	8:19	1.00	1.174	1.00	50.00	50.00	1.564	1.564	1.00
24	8:16	1.00	1.167	1.00	50.00	50.00	0.746	0.746	1.00
25	8:32	1.00	0.843	1.00	50.00	50.00	0.482	0.482	1.00
26	9:09	1.00	0.904	1.00	50.00	50.00	0.887	0.887	1.00
27	9:18	1.00	0.919	1.00	50.00	50.00	0.199	0.199	1.00
28	9:45	1.00	0.964	1.00	50.00	50.00	0.347	0.347	1.00
29	10:18	1.00	1.018	1.00	50.00	50.00	0.236	0.236	1.00
30	9:48	1.00	0.969	1.00	50.00	50.00	0.516	0.516	1.00
31	10:03	1.00	0.993	1.00	50.00	50.00	0.282	0.282	1.00
32	10:03	1.00	0.993	1.00	50.00	50.00	0.289	0.289	1.00
33	10:10	1.00	1.005	1.00	50.00	50.00	0.919	0.919	1.00
34	10:30	1.00	1.038	1.00	50.00	50.00	0.234	0.234	1.00
35	10:41	1.00	1.056	1.00	50.00	50.00	0.170	0.170	1.00
36	11:57	1.00	1.181	1.00	50.00	50.00	0.337	0.337	1.00
37	11:50	1.00	1.170	1.00	50.00	50.00	0.704	0.704	1.00
38	12:24	1.00	0.866	1.00	50.00	50.00	0.419	0.419	1.00
39	12:42	1.00	0.887	1.00	50.00	50.00	0.373	0.373	1.00
40	12:52	1.00	0.899	1.00	50.00	50.00	0.414	0.414	1.00
41	12:58	1.00	0.906	1.00	50.00	50.00	1.256	1.256	1.00
42	13:25	1.00	0.937	1.00	50.00	50.00	0.655	0.655	1.00
43	13:58	1.00	0.976	1.00	50.00	50.00	1.560	1.560	1.00
44	13:56	1.00	0.973	1.00	50.00	50.00	1.798	1.798	1.00
45	14:27	1.00	1.009	1.00	50.00	50.00	0.209	0.209	1.00
46	14:23	1.00	1.005	1.00	50.00	50.00	1.001	1.001	1.00
47	14:37	1.00	1.021	1.00	50.00	50.00	0.184	0.184	1.00
48	15:14	1.00	1.064	1.00	50.00	50.00	0.275	0.275	1.00
49	14:46	1.00	1.031	1.00	50.00	50.00	1.586	1.586	1.00
50	14:59	1.00	1.047	1.00	50.00	50.00	0.409	0.409	1.00

011557

Quantitation Report File: ES0423C02A

Data: ES0423C02A.TI
04/23/93 8:51:00
Sample: SSTD050
Conds.: ---
Formula: 04/17/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: SC Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	CS70	2-CHLOROPHENOL-D4 ** SU7 **	
80	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	
81	C647	CARBAZOLE	
82	C320	ANILINE	
83	A950	PYRIDINE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	845	14:05	3	0.984	A BB	8115.	50.000 UG/L	1.22
52	149	940	15:40	3	1.094	A BB	37148.	50.000 UG/L	1.22
53	204	941	15:41	3	1.095	A BB	14763.	50.000 UG/L	1.22
54	166	935	15:35	3	1.088	A BB	24825.	50.000 UG/L	1.22
55	138	953	15:53	3	1.109	A BB	5096.	50.000 UG/L	1.22
56	198	956	15:56	4	0.897	A BB	5311.	50.000 UG/L	1.22
57	169	961	16:01	4	0.902	A BB	20274.	50.000 UG/L	1.22
58	248	1008	16:48	4	0.946	A BB	7330.	50.000 UG/L	1.22
59	284	1024	17:04	4	0.961	A BB	7219.	50.000 UG/L	1.22
60	266	1056	17:36	4	0.991	A BB	4085.	50.000 UG/L	1.22

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No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
61	178	1069	17:49	4	1.003	A BV	33674.	50.000 UG/L	1.22
62	178	1076	17:56	4	1.009	A VB	30395.	50.000 UG/L	1.22
63	149	1173	19:33	4	1.100	A BB	49084.	50.000 UG/L	1.22
64	202	1239	20:39	4	1.162	A BB	27441.	50.000 UG/L	1.22
65	202	1269	21:09	5	0.878	A BB	29032.	50.000 UG/L	1.22
66	149	1384	23:04	5	0.957	A BB	25604.	50.000 UG/L	1.22
67	252	1449	24:09	5	1.002	A BB	8360.	50.000 UG/L	1.22
68	228	1444	24:04	5	0.999	A BV	35996.	50.000 UG/L	1.22
69	149	1475	24:35	5	1.020	A BB	36568.	50.000 UG/L	1.22
70	228	1449	24:09	5	1.002	A VB	27905.	50.000 UG/L	1.22
71	149	1559	25:59	6	0.952	A BB	62657.	50.000 UG/L	1.22
72	252	1591	26:31	6	0.971	M XX	38117.	50.000 UG/L	1.22
73	252	1594	26:34	6	0.973	M XX	29719.	50.000 UG/L	1.22
74	252	1631	27:11	6	0.996	A BB	28521.	50.000 UG/L	1.22
75	276	1785	29:45	6	1.090	A BB	27817.	50.000 UG/L	1.22
76	278	1789	29:49	6	1.092	A BB	22927.	50.000 UG/L	1.22
77	276	1826	30:26	6	1.115	A BB	23228.	50.000 UG/L	1.22
78	74	125	2:05	1	0.294	A BB	17334.	50.000 UG/L	1.22
79	132	406	6:46	1	0.955	A BB	22782.	50.000 UG/L	1.22
80	152	451	7:31	1	1.061	A BB	11023.	50.000 UG/L	1.22
81	167	1106	18:26	4	1.038	A BB	22630.	50.000 UG/L	1.22
82	93	390	6:30	1	0.918	M XX	16759.	50.000 UG/L	1.22
83	79	126	2:06	1	0.296	M XX	25412.	50.000 UG/L	1.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	14:05	1.00	0.984	1.00	50.00	50.00	0.346	0.346	1.00
52	15:40	1.00	1.094	1.00	50.00	50.00	1.586	1.586	1.00
53	15:41	1.00	1.095	1.00	50.00	50.00	0.630	0.630	1.00
54	15:35	1.00	1.088	1.00	50.00	50.00	1.060	1.060	1.00
55	15:53	1.00	1.109	1.00	50.00	50.00	0.218	0.218	1.00
56	15:56	1.00	0.897	1.00	50.00	50.00	0.169	0.169	1.00
57	16:01	1.00	0.902	1.00	50.00	50.00	0.645	0.645	1.00
58	16:48	1.00	0.946	1.00	50.00	50.00	0.233	0.233	1.00
59	17:04	1.00	0.961	1.00	50.00	50.00	0.230	0.230	1.00
60	17:36	1.00	0.991	1.00	50.00	50.00	0.130	0.130	1.00
61	17:49	1.00	1.003	1.00	50.00	50.00	1.072	1.072	1.00
62	17:56	1.00	1.009	1.00	50.00	50.00	0.968	0.968	1.00
63	19:33	1.00	1.100	1.00	50.00	50.00	1.563	1.563	1.00
64	20:39	1.00	1.162	1.00	50.00	50.00	0.874	0.874	1.00
65	21:09	1.00	0.878	1.00	50.00	50.00	0.949	0.949	1.00
66	23:04	1.00	0.957	1.00	50.00	50.00	0.837	0.837	1.00
67	24:09	1.00	1.002	1.00	50.00	50.00	0.273	0.273	1.00
68	24:04	1.00	0.999	1.00	50.00	50.00	1.177	1.177	1.00
69	24:35	1.00	1.020	1.00	50.00	50.00	1.195	1.195	1.00
70	24:09	1.00	1.002	1.00	50.00	50.00	0.912	0.912	1.00
71	25:59	1.00	0.952	1.00	50.00	50.00	2.107	2.107	1.00
72	26:31	1.00	0.971	1.00	50.00	50.00	1.282	1.282	1.00
73	26:34	1.00	0.973	1.00	50.00	50.00	1.000	1.000	1.00
74	27:11	1.00	0.996	1.00	50.00	50.00	0.959	0.959	1.00
75	29:45	1.00	1.090	1.00	50.00	50.00	0.936	0.936	1.00
76	29:49	1.00	1.092	1.00	50.00	50.00	0.771	0.771	1.00
77	30:26	1.00	1.115	1.00	50.00	50.00	0.781	0.781	1.00
78	2:05	1.00	0.294	1.00	50.00	50.00	1.496	1.496	1.00
79	6:46	1.00	0.955	1.00	50.00	50.00	1.966	1.966	1.00
80	7:31	1.00	1.061	1.00	50.00	50.00	0.951	0.951	1.00
81	18:26	1.00	1.038	1.00	50.00	50.00	0.720	0.720	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
82	6:30	1.00	0.918	1.00	50.00	50.00	1.446	1.446	1.00
83	2:06	1.00	0.296	1.00	50.00	50.00	2.193	2.193	1.00

CHESTER LABNET DC # ---17

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. --
CONTRACT LAB: CHESTER LABNET
CONTRACT NO. --
INSTRUMENT IDENTIFIER: 4530
CALIBRATION DATE: 04/17/93
STANDARD FILE: ES0424C02
DATE: 04/24/93 TIME: 15:15
MAXIMUM % D FOR CCC IS 20

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.669	1.558	-6.649
C325	BIS(2-CHLOROETHYL)ETHE	1.673	1.569	-6.233
C330	2-CHLOROPHENOL	1.393	1.315	-5.582
C335	1,3-DICHLOROBENZENE	1.481	1.413	-4.585
C340	1,4-DICHLOROBENZENE	1.561	1.526	-2.224
C345	BENZYL ALCOHOL	0.909	0.666	-26.722
C350	1,2-DICHLOROBENZENE	1.491	1.447	-2.930
C355	2-METHYLPHENOL	1.214	1.129	-7.002
C357	2,2'-OXYBIS(1-CHLOROPR	2.394	1.731	-27.696
C365	4-METHYLPHENOL	1.295	1.233	-4.730
C370	N-NITROSODIPROPYLAMINE	1.137	1.046	-7.991
C375	HEXACHLOROETHANE	0.619	0.655	5.820
C410	NITROBENZENE	0.405	0.387	-4.309
C415	ISOPHORONE	0.784	0.799	1.972
C420	2-NITROPHENOL	0.211	0.195	-7.515
C425	2,4-DIMETHYLPHENOL	0.297	0.324	9.324
C430	BENZOIC ACID	0.226	0.234	3.435
C435	BIS(2-CHLOROETHOXY)MET	0.493	0.514	4.217
C440	2,4-DICHLOROPHENOL	0.273	0.271	-0.566
C445	1,2,4-TRICHLOROBENZENE	0.296	0.291	-1.555
C450	NAPHTHALENE	1.049	0.915	-12.781
C455	4-CHLOROANILINE	0.418	0.202	-51.578
C460	HEXACHLOROBUTADIENE	0.148	0.147	-0.323
C465	P-CHLORO-M-CRESOL	0.284	0.283	-0.605
C470	2-METHYLNAPHTHALENE	0.754	0.684	-9.264
C510	HEXACHLOROCYCLOPENTADI	0.356	0.364	2.228
C515	2,4,6-TRICHLOROPHENOL	0.453	0.395	-12.627
C520	2,4,5-TRICHLOROPHENOL	0.342	0.423	23.845
C525	2-CHLORONAPHTHALENE	1.285	1.291	0.453
C530	2-NITROANILINE	0.468	0.476	1.708
C535	DIMETHYL PHTHALATE	1.522	1.599	5.051
C540	ACENAPHTHYLENE	2.030	1.745	-14.046
C545	3-NITROANILINE	0.355	0.339	-4.581
C550	ACENAPHTHENE	1.129	0.997	-11.712
C555	2,4-DINITROPHENOL	0.218	0.154	-29.180
C560	4-NITROPHENOL	0.124	0.174	39.532
C565	DIBENZOFURAN	1.706	1.598	-6.302
C570	2,4-DINITROTOLUENE	0.441	0.393	-10.849
C543	2,6-DINITROTOLUENE	0.365	0.342	-6.150
C580	DIETHYL PHTHALATE	1.556	1.588	2.026
C585	4-CHLOROPHENYL PHENYL	0.706	0.609	-13.662
C590	FLUORENE	1.322	1.082	-18.145
C595	4-NITROANILINE	0.271	0.276	2.032
C610	4,6-DINITRO-2-METHYLPH	0.168	0.150	-11.059
C615	N-NITROSODIPHENYLAMINE	0.621	0.574	-7.647
C625	4-BROMOPHENYL PHENYL E	0.222	0.213	-3.909
C630	HEXACHLOROBENZENE	0.229	0.202	-12.148
C635	PENTACHLOROPHENOL	0.152	0.125	-17.425
C640	PHENANTHRENE	1.340	0.971	-27.484

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C645	ANTHRACENE	1.018	1.033	1.438
C650	DI-N-BUTYL PHTHALATE	1.590	1.789	12.542
C655	FLUORANTHENE	1.129	1.254	11.090
C715	PYRENE	1.323	1.041	-21.299
C720	BUTYL BENZYL PHTHALATE	0.790	0.808	2.253
C725	3,3'-DICHLOROBENZIDINE	0.384	0.322	-16.045
C730	BENZO(A)ANTHRACENE	1.347	1.002	-25.620
C745	BIS(2-ETHYLHEXYL)PHTHA	1.059	1.152	8.740
C740	CHRYSENE	0.944	0.969	2.636
C760	DI-N-OCTYL PHTHALATE	1.913	2.191	14.554
C765	BENZO(B)FLUORANTHENE	1.429	1.160	-18.775
C770	BENZO(K)FLUORANTHENE	1.181	1.314	11.256
C775	BENZO(A)PYRENE	1.094	0.939	-14.169
C780	INDENO(1,2,3-CD)PYRENE	1.124	0.865	-23.012
C785	DIBENZO(A,H)ANTHRACENE	0.927	0.683	-26.270
C790	BENZO(GHI)PERYLENE	0.953	0.685	-28.115
C310	N-NITROSODIMETHYLAMINE	1.067	0.960	-10.014
C620	1,2-DIPHENYL-HYDRAZINE	1.079	1.083	0.381
C320	ANILINE	2.058	0.967	-53.008
CS50	2-FLUOROPHENOL ** SU1	1.330	1.283	-3.539
CS45	PHENOL-D5 ** SU2 **	1.715	1.980	15.387
CS55	2,4,6-TRIBROMOPHENOL	0.182	0.154	-14.929
CS20	NITROBENZENE-D5 ** SU3	0.400	0.472	18.153
CS25	2-FLUOROBIPHENYL **SU4	1.328	1.509	13.662
CS30	TERPHENYL-D14 ** SU6	1.170	1.078	-7.808
CS70	2-CHLOROPHENOL-D4 ** S	1.781	1.849	3.835
CS75	1,2-DICHLOROBENZENE-D4	0.879	0.941	7.052
C647	CARBAZOLE	0.851	1.017	19.410
CC65	3+4-METHYLPHENOL			
A950	PYRIDINE	1.763	1.353	-23.234

CHESTER LABNET DC # ---17

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4530

LAB ID. ES0424C02

CLIENT CHESTER ANALYST JZ

DATE INJECTED 04/24/93 15:15:00 VERFIED BY

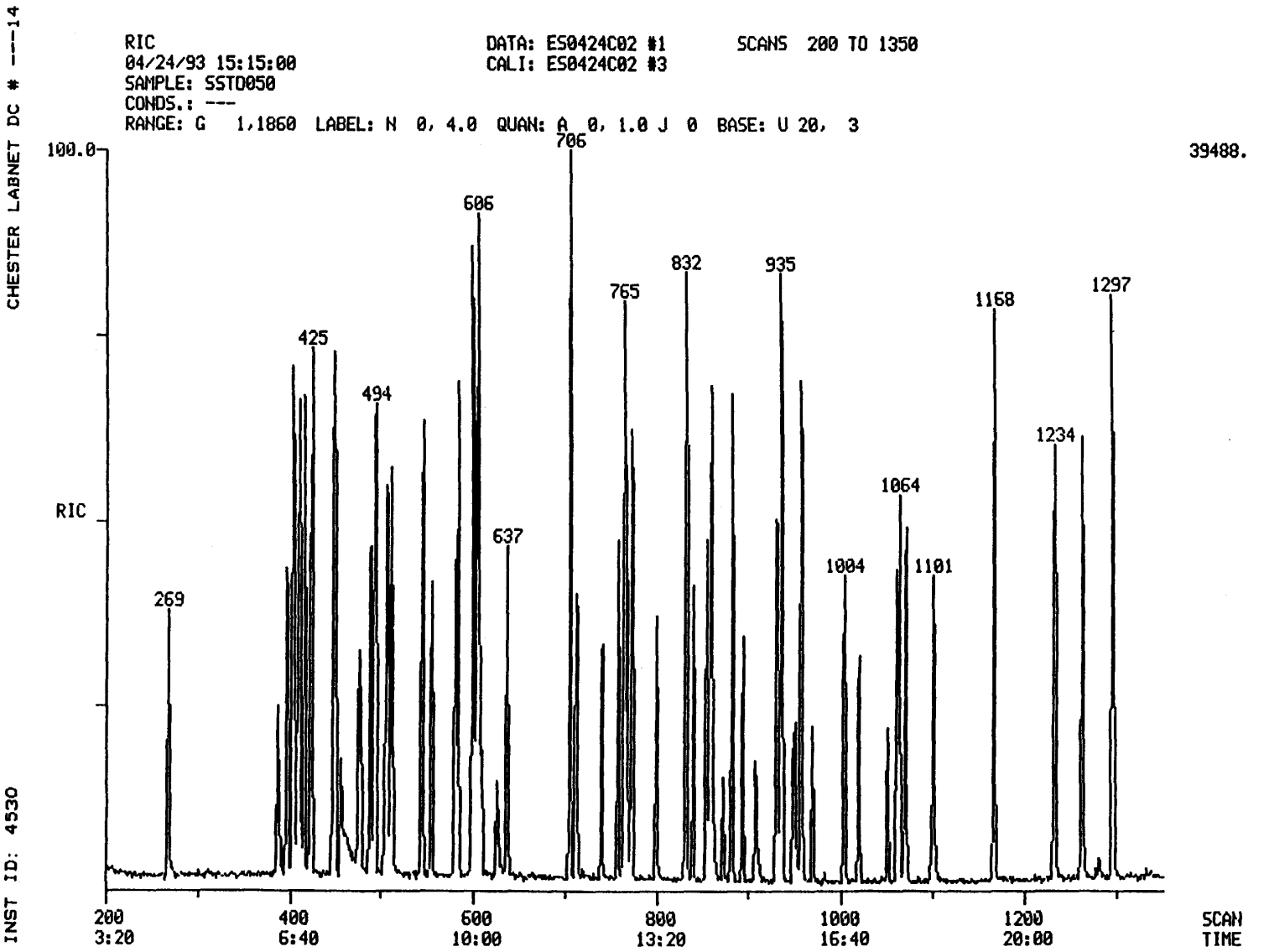
	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS1**		152	423	40	7045	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **		136	603	40	24919	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **		164	854	40	10684	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **		188	1061	40	15343	1.000	1.000
CI70	CHRYSENE-D12 ** IS5 **		240	1440	40	19945	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **		264	1632	40	16615	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **		112	268	50	11298	0.634	1.283
CS45	PHENOL-D5 ** SU2 **		99	410	50	17432	0.969	1.980
CS55	2,4,6-TRIBROMOPHENOL ** SU5 **		330	969	50	2063	1.135	0.154
CS20	NITROBENZENE-D5 ** SU3 **		82	506	50	14717	0.839	0.472
CS25	2-FLUOROBIPHENYL **SU4 **		172	765	50	20159	0.896	1.509
CS30	TERPHENYL-D14 ** SU6 **		244	1297	50	26888	0.901	1.078
C315	PHENOL	10A	94	411	50	13724	0.972	1.558
C325	BIS(2-CHLOROETHYL)ETHER	11B	93	397	50	13814	0.939	1.569
C330	2-CHLOROPHENOL	1A	128	405	50	11580	0.957	1.315
C335	1,3-DICHLOROBENZENE	21B	146	417	50	12446	0.986	1.413
C340	1,4-DICHLOROBENZENE	22B	146	425	50	13442	1.005	1.526
C345	BENZYL ALCOHOL		108	457	50	5863	1.080	0.666
C350	1,2-DICHLOROBENZENE	20B	146	450	50	12745	1.064	1.447
C355	2-METHYLPHENOL		108	488	50	9942	1.154	1.129
C357	2,2'-OXYBIS(1-CHLOROPROPANE)		45	476	50	15241	1.125	1.731
C365	4-METHYLPHENOL		108	512	50	10861	1.210	1.233
C370	N-NITROSODIPROPYLAMINE	42B	70	495	50	9215	1.170	1.046
C375	HEXACHLOROETHANE	36B	117	493	50	5767	1.165	0.655
C410	NITROBENZENE	40B	77	508	50	12070	0.842	0.387
C415	ISOPHORONE	38B	82	545	50	24900	0.904	0.799
C420	2-NITROPHENOL	6A	139	555	50	6079	0.920	0.195
C425	2,4-DIMETHYLPHENOL	3A	107	581	50	10099	0.964	0.324
C430	BENZOIC ACID		122	609	50	7274	1.010	0.234
C435	BIS(2-CHLOROETHOXY)METHANE	10B	93	584	50	16008	0.968	0.514
C440	2,4-DICHLOROPHENOL	2A	162	599	50	8453	0.993	0.271
C445	1,2,4-TRICHLOROBENZENE	46B	180	600	50	9071	0.995	0.291
C450	NAPHTHALENE	39B	128	606	50	28503	1.005	0.915
C455	4-CHLOROANILINE		127	626	50	6302	1.038	0.202
C460	HEXACHLOROBUTADIENE	34B	225	637	50	4581	1.056	0.147
C465	P-CHLORO-M-CRESOL	8A	107	712	50	8800	1.181	0.283
C470	2-METHYLNAPHTHALENE		142	706	50	21295	1.171	0.684
C510	HEXACHLOROCYCLOPENTADIENE	35B	237	740	50	4867	0.867	0.364
C515	2,4,6-TRICHLOROPHENOL	11A	196	758	50	5281	0.888	0.395
C520	2,4,5-TRICHLOROPHENOL		196	768	50	5652	0.899	0.423
C525	2-CHLORONAPHTHALENE	16B	162	773	50	17243	0.905	1.291
C530	2-NITROANILINE		65	800	50	6353	0.937	0.476
C535	DIMETHYL PHTHALATE	25B	163	833	50	21355	0.975	1.599
C540	ACENAPHTHYLENE	2B	152	832	50	23299	0.974	1.745
C545	3-NITROANILINE		138	861	50	4526	1.008	0.339
C550	ACENAPHTHENE	1B	153	859	50	13310	1.006	0.997

CHESTER LABNET DC # ---17

SV STANDARD REPORT PAGE 2

DATAFILE ES0424C02

	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	5A	184	872	50	2057	1.021	0.154
C560	4-NITROPHENOL	7A	109	908	50	2318	1.063	0.174
C565	DIBENZOFURAN		168	882	50	21344	1.033	1.598
C570	2,4-DINITROTOLUENE	27B	165	894	50	5249	1.047	0.393
C543	2,6-DINITROTOLUENE	28B	165	840	50	4573	0.984	0.342
C580	DIETHYL PHTHALATE	24B	149	935	50	21202	1.095	1.588
C585	4-CHLOROPHENYL PHENYL ETHER	17B	204	936	50	8138	1.096	0.609
C590	FLUORENE	32B	166	930	50	14455	1.089	1.082
C595	4-NITROANILINE		138	948	50	3689	1.110	0.276
C610	4,6-DINITRO-2-METHYLPHENOL	4A	198	951	50	2868	0.896	0.150
C615	N-NITROSODIPHENYLAMINE	43B	169	956	50	11004	0.901	0.574
C625	4-BROMOPHENYL PHENYL ETHER	14B	248	1004	50	4091	0.946	0.213
C630	HEXACHLOROBENZENE	33B	284	1019	50	3865	0.960	0.202
C635	PENTACHLOROPHENOL	9A	266	1051	50	2401	0.991	0.125
C640	PHENANTHRENE	44B	178	1064	50	18627	1.003	0.971
C645	ANTHRACENE	3B	178	1071	50	19804	1.009	1.033
C650	DI-N-BUTYL PHTHALATE	26B	149	1168	50	34315	1.101	1.789
C655	FLUORANTHENE	31B	202	1234	50	24051	1.163	1.254
C715	PYRENE	45B	202	1264	50	25960	0.878	1.041
C720	BUTYL BENZYL PHTHALATE	15B	149	1379	50	20139	0.958	0.808
C725	3,3'-DICHLOROBENZIDINE	23B	252	1444	50	8040	1.003	0.322
C730	BENZO(A)ANTHRACENE	5B	228	1438	50	24973	0.999	1.002
C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B	149	1470	50	28721	1.021	1.152
C740	CHRYSENE	18B	228	1444	50	24149	1.003	0.969
C760	DI-N-OCTYL PHTHALATE	29B	149	1555	50	45513	0.953	2.191
C765	BENZO(B)FLUORANTHENE	7B	252	1586	50	24102	0.972	1.160
C770	BENZO(K)FLUORANTHENE	9B	252	1589	50	27290	0.974	1.314
C775	BENZO(A)PYRENE	6B	252	1625	50	19492	0.996	0.939
C780	INDENO(1,2,3-CD)PYRENE	37B	276	1774	50	17964	1.087	0.865
C785	DIBENZO(A,H)ANTHRACENE	19B	278	1779	50	14195	1.090	0.683
C790	BENZO(GHI)PERYLENE	8B	276	1814	50	14232	1.112	0.685
C310	N-NITROSODIMETHYLAMINE	41B	74	121	50	8454	0.286	0.960
C710	BENZIDINE	4B	184	1046	50	181	0.726	0.007
CS70	2-CHLOROPHENOL-D4 ** SU7 **		132	403	50	16284	0.953	1.849
CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **		152	448	50	8283	1.059	0.941
C647	CARBAZOLE		167	1101	50	19497	1.038	1.017
C320	ANILINE		93	388	50	8513	0.917	0.967
A950	PYRIDINE		79	123	50	11916	0.291	1.353
C620	1,2-DIPHENYL-HYDRAZINE	30B	77	958	50	20780	0.903	1.083



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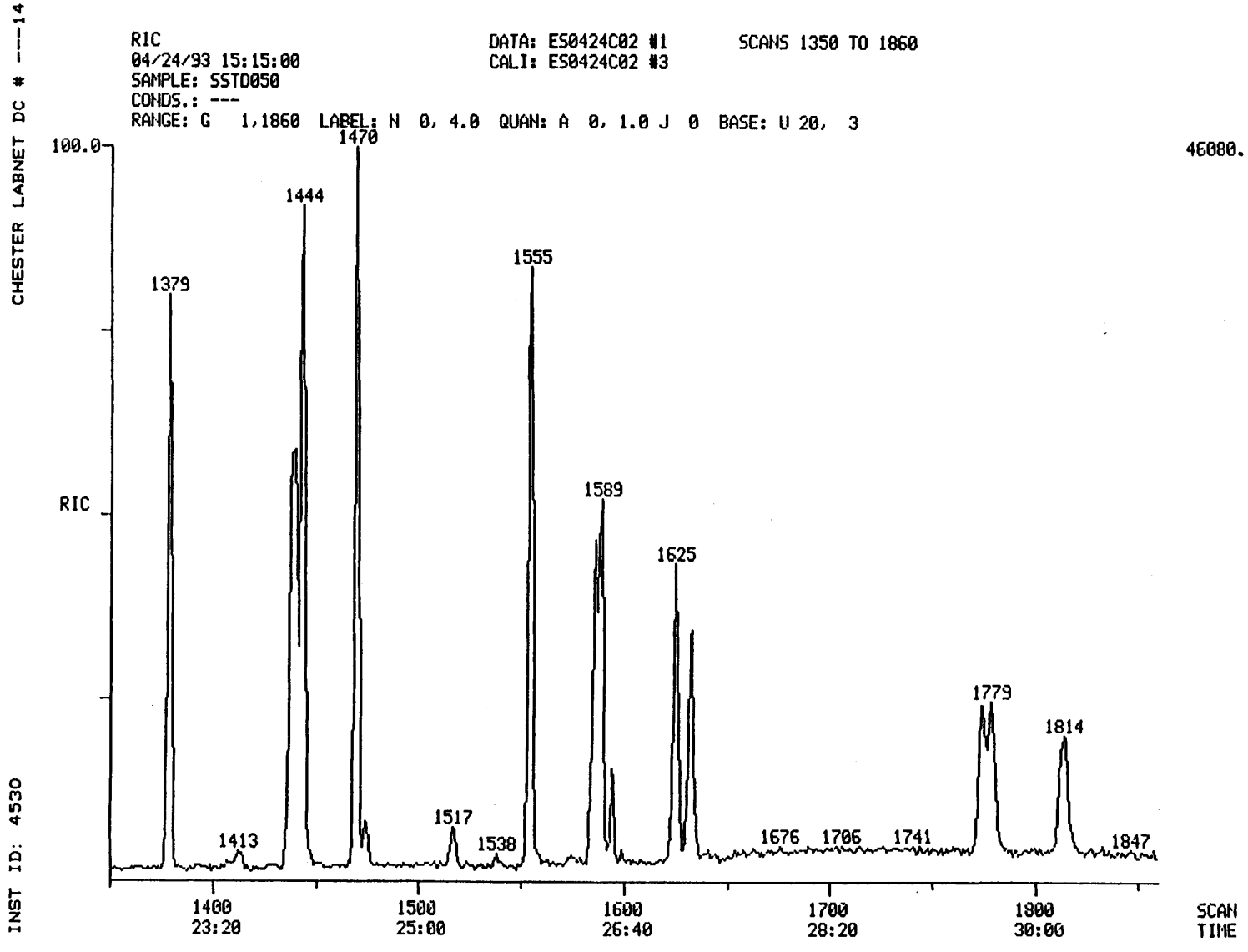

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Quantitation Report File: ES0424C02

Data: ES0424C02.TI
04/24/93 15:15:00
Sample: SSTD050
Conds.: ---
Formula: 04/17/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: JZ Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1**	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL **SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

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No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	423	7:03	1	1.000	A BB	7045.	40.000 UG/L	0.95
2	136	603	10:03	2	1.000	A BB	24919.	40.000 UG/L	0.95
3	164	854	14:14	3	1.000	A BB	10684.	40.000 UG/L	0.95
4	188	1061	17:41	4	1.000	A BV	15343.	40.000 UG/L	0.95
5	240	1440	24:00	5	1.000	A BB	19945.	40.000 UG/L	0.95
6	264	1632	27:12	6	1.000	A BB	16615.	40.000 UG/L	0.95
7	112	268	4:28	1	0.634	A BB	11298.	50.000 UG/L	1.19
8	99	410	6:50	1	0.969	A BB	17432.	50.000 UG/L	1.19
9	330	969	16:09	3	1.135	A BB	2063.	50.000 UG/L	1.19
10	82	506	8:26	2	0.839	A BB	14717.	50.000 UG/L	1.19
11	172	765	12:45	3	0.896	A BB	20159.	50.000 UG/L	1.19
12	244	1297	21:37	5	0.901	A BB	26888.	50.000 UG/L	1.19
13	94	411	6:51	1	0.972	A BB	13724.	50.000 UG/L	1.19
14	93	397	6:37	1	0.939	A BV	13814.	50.000 UG/L	1.19
15	128	405	6:45	1	0.957	A BB	11580.	50.000 UG/L	1.19
16	146	417	6:57	1	0.986	A BB	12446.	50.000 UG/L	1.19
17	146	425	7:05	1	1.005	A BB	13442.	50.000 UG/L	1.19
18	108	457	7:37	1	1.080	A BB	5863.	50.000 UG/L	1.19
19	146	450	7:30	1	1.064	A BB	12745.	50.000 UG/L	1.19
20	108	488	8:08	1	1.154	M XX	9942.	50.000 UG/L	1.19
21	45	476	7:56	1	1.125	M XX	15241.	50.000 UG/L	1.19
22	108	512	8:32	1	1.210	A BV	10861.	50.000 UG/L	1.19
23	70	495	8:15	1	1.170	A BB	9215.	50.000 UG/L	1.19
24	117	493	8:13	1	1.165	A BB	5767.	50.000 UG/L	1.19
25	77	508	8:28	2	0.842	M XX	12070.	50.000 UG/L	1.19
26	82	545	9:05	2	0.904	A BB	24900.	50.000 UG/L	1.19
27	139	555	9:15	2	0.920	A BB	6079.	50.000 UG/L	1.19
28	107	581	9:41	2	0.964	A BB	10099.	50.000 UG/L	1.19
29	122	609	10:09	2	1.010	A BB	7274.	50.000 UG/L	1.19
30	93	584	9:44	2	0.968	A BB	16008.	50.000 UG/L	1.19
31	162	599	9:59	2	0.993	A BB	8453.	50.000 UG/L	1.19
32	180	600	10:00	2	0.995	A BB	9071.	50.000 UG/L	1.19
33	128	606	10:06	2	1.005	A BB	28503.	50.000 UG/L	1.19
34	127	626	10:26	2	1.038	A BB	6302.	50.000 UG/L	1.19
35	225	637	10:37	2	1.056	A BB	4581.	50.000 UG/L	1.19
36	107	712	11:52	2	1.181	A BB	8800.	50.000 UG/L	1.19
37	142	706	11:46	2	1.171	A BV	21295.	50.000 UG/L	1.19
38	237	740	12:20	3	0.867	A BB	4867.	50.000 UG/L	1.19
39	196	758	12:38	3	0.888	A BB	5281.	50.000 UG/L	1.19
40	196	768	12:48	3	0.899	A BB	5652.	50.000 UG/L	1.19
41	162	773	12:53	3	0.905	A BB	17243.	50.000 UG/L	1.19
42	65	800	13:20	3	0.937	A BB	6353.	50.000 UG/L	1.19
43	163	833	13:53	3	0.975	A BB	21355.	50.000 UG/L	1.19
44	152	832	13:52	3	0.974	A BB	23299.	50.000 UG/L	1.19
45	138	861	14:21	3	1.008	A BB	4526.	50.000 UG/L	1.19
46	153	859	14:19	3	1.006	A BB	13310.	50.000 UG/L	1.19
47	184	872	14:32	3	1.021	A BB	2057.	50.000 UG/L	1.19
48	109	908	15:08	3	1.063	A BB	2318.	50.000 UG/L	1.19
49	168	882	14:42	3	1.033	A BB	21344.	50.000 UG/L	1.19
50	165	894	14:54	3	1.047	A BB	5249.	50.000 UG/L	1.19

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No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:03	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:03	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:14	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	24:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:12	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:28	1.00	0.634	1.00	50.00	50.00	1.283	1.283	1.00
8	6:50	1.00	0.969	1.00	50.00	50.00	1.980	1.980	1.00
9	16:09	1.00	1.135	1.00	50.00	50.00	0.154	0.154	1.00
10	8:26	1.00	0.839	1.00	50.00	50.00	0.472	0.472	1.00
11	12:45	1.00	0.896	1.00	50.00	50.00	1.509	1.509	1.00
12	21:37	1.00	0.901	1.00	50.00	50.00	1.078	1.078	1.00
13	6:51	1.00	0.972	1.00	50.00	50.00	1.558	1.558	1.00
14	6:37	1.00	0.939	1.00	50.00	50.00	1.569	1.569	1.00
15	6:45	1.00	0.957	1.00	50.00	50.00	1.315	1.315	1.00
16	6:57	1.00	0.986	1.00	50.00	50.00	1.413	1.413	1.00
17	7:05	1.00	1.005	1.00	50.00	50.00	1.526	1.526	1.00
18	7:37	1.00	1.080	1.00	50.00	50.00	0.666	0.666	1.00
19	7:30	1.00	1.064	1.00	50.00	50.00	1.447	1.447	1.00
20	8:08	1.00	1.154	1.00	50.00	50.00	1.129	1.129	1.00
21	7:56	1.00	1.125	1.00	50.00	50.00	1.731	1.731	1.00
22	8:32	1.00	1.210	1.00	50.00	50.00	1.233	1.233	1.00
23	8:15	1.00	1.170	1.00	50.00	50.00	1.046	1.046	1.00
24	8:13	1.00	1.165	1.00	50.00	50.00	0.655	0.655	1.00
25	8:28	1.00	0.842	1.00	50.00	50.00	0.387	0.387	1.00
26	9:05	1.00	0.904	1.00	50.00	50.00	0.799	0.799	1.00
27	9:15	1.00	0.920	1.00	50.00	50.00	0.195	0.195	1.00
28	9:41	1.00	0.964	1.00	50.00	50.00	0.324	0.324	1.00
29	10:09	1.00	1.010	1.00	50.00	50.00	0.234	0.234	1.00
30	9:44	1.00	0.968	1.00	50.00	50.00	0.514	0.514	1.00
31	9:59	1.00	0.993	1.00	50.00	50.00	0.271	0.271	1.00
32	10:00	1.00	0.995	1.00	50.00	50.00	0.291	0.291	1.00
33	10:06	1.00	1.005	1.00	50.00	50.00	0.915	0.915	1.00
34	10:26	1.00	1.038	1.00	50.00	50.00	0.202	0.202	1.00
35	10:37	1.00	1.056	1.00	50.00	50.00	0.147	0.147	1.00
36	11:52	1.00	1.181	1.00	50.00	50.00	0.283	0.283	1.00
37	11:46	1.00	1.171	1.00	50.00	50.00	0.684	0.684	1.00
38	12:20	1.00	0.867	1.00	50.00	50.00	0.364	0.364	1.00
39	12:38	1.00	0.888	1.00	50.00	50.00	0.395	0.395	1.00
40	12:48	1.00	0.899	1.00	50.00	50.00	0.423	0.423	1.00
41	12:53	1.00	0.905	1.00	50.00	50.00	1.291	1.291	1.00
42	13:20	1.00	0.937	1.00	50.00	50.00	0.476	0.476	1.00
43	13:53	1.00	0.975	1.00	50.00	50.00	1.599	1.599	1.00
44	13:52	1.00	0.974	1.00	50.00	50.00	1.745	1.745	1.00
45	14:21	1.00	1.008	1.00	50.00	50.00	0.339	0.339	1.00
46	14:19	1.00	1.006	1.00	50.00	50.00	0.997	0.997	1.00
47	14:32	1.00	1.021	1.00	50.00	50.00	0.154	0.154	1.00
48	15:08	1.00	1.063	1.00	50.00	50.00	0.174	0.174	1.00
49	14:42	1.00	1.033	1.00	50.00	50.00	1.598	1.598	1.00
50	14:54	1.00	1.047	1.00	50.00	50.00	0.393	0.393	1.00

011568

011569

Quantitation Report File: ES0424C02

Data: ES0424C02.TI
04/24/93 15:15:00
Sample: SSTD050
Conds.: ---
Formula: 04/17/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: JZ Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	CS70	2-CHLOROPHENOL-D4 ** SU7 **	
81	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	
83	C320	ANILINE	
84	A950	PYRIDINE	
85	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	840	14:00	3	0.984	A BB	4573.	50.000 UG/L	1.19
52	149	935	15:35	3	1.095	A BB	21202.	50.000 UG/L	1.19
53	204	936	15:36	3	1.096	A BB	8138.	50.000 UG/L	1.19
54	166	930	15:30	3	1.089	A BB	14455.	50.000 UG/L	1.19
55	138	948	15:48	3	1.110	A BB	3689.	50.000 UG/L	1.19
56	198	951	15:51	4	0.896	A BB	2868.	50.000 UG/L	1.19
57	169	956	15:56	4	0.901	A BB	11004.	50.000 UG/L	1.19
58	248	1004	16:44	4	0.946	A BB	4091.	50.000 UG/L	1.19

011570

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
59	284	1019	16:59	4	0.960	A BB	3865.	50.000 UG/L	1.19
60	266	1051	17:31	4	0.991	A BB	2401.	50.000 UG/L	1.19
61	178	1064	17:44	4	1.003	A BV	18627.	50.000 UG/L	1.19
62	178	1071	17:51	4	1.009	A VB	19804.	50.000 UG/L	1.19
63	149	1168	19:28	4	1.101	A BB	34315.	50.000 UG/L	1.19
64	202	1234	20:34	4	1.163	A BB	24051.	50.000 UG/L	1.19
65	202	1264	21:04	5	0.878	A BB	25960.	50.000 UG/L	1.19
66	149	1379	22:59	5	0.958	A BB	20139.	50.000 UG/L	1.19
67	252	1444	24:04	5	1.003	A BB	8040.	50.000 UG/L	1.19
68	228	1438	23:58	5	0.999	A BV	24973.	50.000 UG/L	1.19
69	149	1470	24:30	5	1.021	A BB	28721.	50.000 UG/L	1.19
70	228	1444	24:04	5	1.003	A VB	24149.	50.000 UG/L	1.19
71	149	1555	25:55	6	0.953	A BV	45513.	50.000 UG/L	1.19
72	252	1586	26:26	6	0.972	M XX	24102.	50.000 UG/L	1.19
73	252	1589	26:29	6	0.974	M XX	27290.	50.000 UG/L	1.19
74	252	1625	27:05	6	0.996	A BB	19492.	50.000 UG/L	1.19
75	276	1774	29:34	6	1.087	A EB	17964.	50.000 UG/L	1.19
76	278	1779	29:39	6	1.090	A BB	14195.	50.000 UG/L	1.19
77	276	1814	30:14	6	1.112	A BB	14232.	50.000 UG/L	1.19
78	74	121	2:01	1	0.286	A BV	8454.	50.000 UG/L	1.19
79	184	1046	17:26	5	0.726	M XX	181.	50.000 UG/L	1.19
80	132	403	6:43	1	0.953	A BB	16284.	50.000 UG/L	1.19
81	152	448	7:28	1	1.059	A BB	8283.	50.000 UG/L	1.19
82	167	1101	18:21	4	1.038	A BV	19497.	50.000 UG/L	1.19
83	93	388	6:28	1	0.917	M XX	8513.	50.000 UG/L	1.19
84	79	123	2:03	1	0.291	M XX	11916.	50.000 UG/L	1.19
85	77	958	15:58	4	0.903	M XX	20780.	50.000 UG/L	1.19

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	14:00	1.00	0.984	1.00	50.00	50.00	0.342	0.342	1.00
52	15:35	1.00	1.095	1.00	50.00	50.00	1.588	1.588	1.00
53	15:36	1.00	1.096	1.00	50.00	50.00	0.609	0.609	1.00
54	15:30	1.00	1.089	1.00	50.00	50.00	1.082	1.082	1.00
55	15:48	1.00	1.110	1.00	50.00	50.00	0.276	0.276	1.00
56	15:51	1.00	0.896	1.00	50.00	50.00	0.150	0.150	1.00
57	15:56	1.00	0.901	1.00	50.00	50.00	0.574	0.574	1.00
58	16:44	1.00	0.946	1.00	50.00	50.00	0.213	0.213	1.00
59	16:59	1.00	0.960	1.00	50.00	50.00	0.202	0.202	1.00
60	17:31	1.00	0.991	1.00	50.00	50.00	0.125	0.125	1.00
61	17:44	1.00	1.003	1.00	50.00	50.00	0.971	0.971	1.00
62	17:51	1.00	1.009	1.00	50.00	50.00	1.033	1.033	1.00
63	19:28	1.00	1.101	1.00	50.00	50.00	1.789	1.789	1.00
64	20:34	1.00	1.163	1.00	50.00	50.00	1.254	1.254	1.00
65	21:04	1.00	0.878	1.00	50.00	50.00	1.041	1.041	1.00
66	22:59	1.00	0.958	1.00	50.00	50.00	0.808	0.808	1.00
67	24:04	1.00	1.003	1.00	50.00	50.00	0.322	0.322	1.00
68	23:58	1.00	0.999	1.00	50.00	50.00	1.002	1.002	1.00
69	24:30	1.00	1.021	1.00	50.00	50.00	1.152	1.152	1.00
70	24:04	1.00	1.003	1.00	50.00	50.00	0.969	0.969	1.00
71	25:55	1.00	0.953	1.00	50.00	50.00	2.191	2.191	1.00
72	26:26	1.00	0.972	1.00	50.00	50.00	1.160	1.160	1.00
73	26:29	1.00	0.974	1.00	50.00	50.00	1.314	1.314	1.00
74	27:05	1.00	0.996	1.00	50.00	50.00	0.939	0.939	1.00
75	29:34	1.00	1.087	1.00	50.00	50.00	0.865	0.865	1.00
76	29:39	1.00	1.090	1.00	50.00	50.00	0.683	0.683	1.00
77	30:14	1.00	1.112	1.00	50.00	50.00	0.685	0.685	1.00

011571

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	2:01	1.00	0.286	1.00	50.00	50.00	0.960	0.960	1.00
79	17:26	1.00	0.726	1.00	50.00	50.00	0.007	0.007	1.00
80	6:43	1.00	0.953	1.00	50.00	50.00	1.849	1.849	1.00
81	7:28	1.00	1.059	1.00	50.00	50.00	0.941	0.941	1.00
82	18:21	1.00	1.038	1.00	50.00	50.00	1.017	1.017	1.00
83	6:28	1.00	0.917	1.00	50.00	50.00	0.967	0.967	1.00
84	2:03	1.00	0.291	1.00	50.00	50.00	1.353	1.353	1.00
85	15:58	1.00	0.903	1.00	50.00	50.00	1.083	1.083	1.00

011572

THE FOLLOWING DATA IS

FOR QA/QC

011572

011573

CHESTER LABNET DC # --- 8

INST ID: 4530

SAMPLE NUMBER: SBLK (LLS)

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930408201
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: --
QC REPORT NO.: 04/17/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/23/93

DATAFILE: 4U04082C01

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011574

INST ID: 4530 SAMPLE NUMBER: SBLK (LLS)

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930408201 QC REPORT NO.: 04/17/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U04082C01
DATE EXTRACTED: 4/13/93
DATE ANALYZED: 04/23/93

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	330 U	
C540	ACENAPHTHYLENE	330 U	
C550	ACENAPHTHENE	330 U	
C590	FLUORENE	330 U	
C640	PHENANTHRENE	330 U	
C645	ANTHRACENE	330 U	
C655	FLUORANTHENE	330 U	
C715	PYRENE	330 U	
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	
C790	BENZO(GHI)PERYLENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

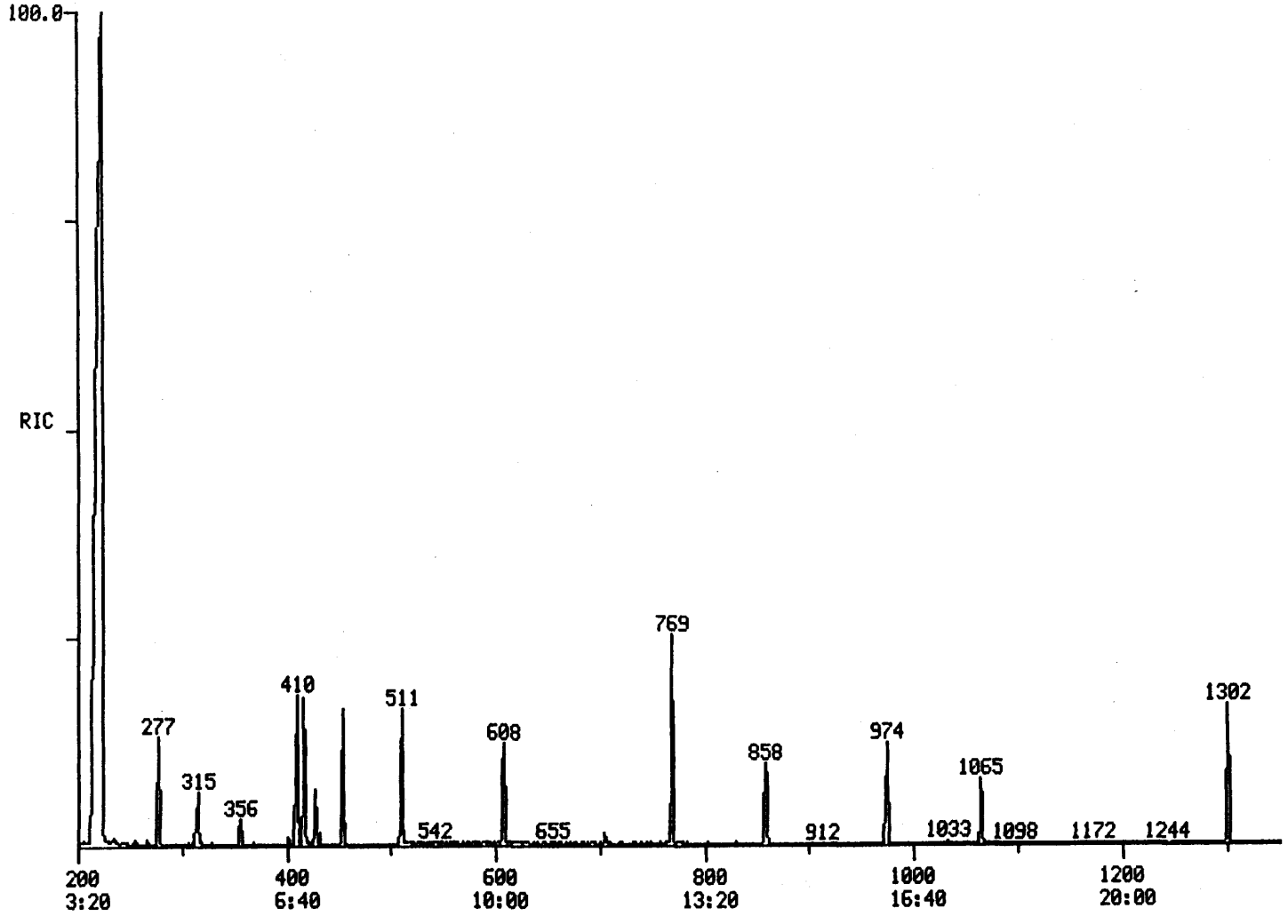
CHESTER LABNET DC # ---14

RIC
04/23/93 9:32:00
SAMPLE: SBLK (LLS)
CONDS.: ---
RANGE: G 1,1860 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4U04082C01 #1
CALI: 4U04082C01 #3

SCANS 200 TO 1350

345088.



INST ID: 4530

000071

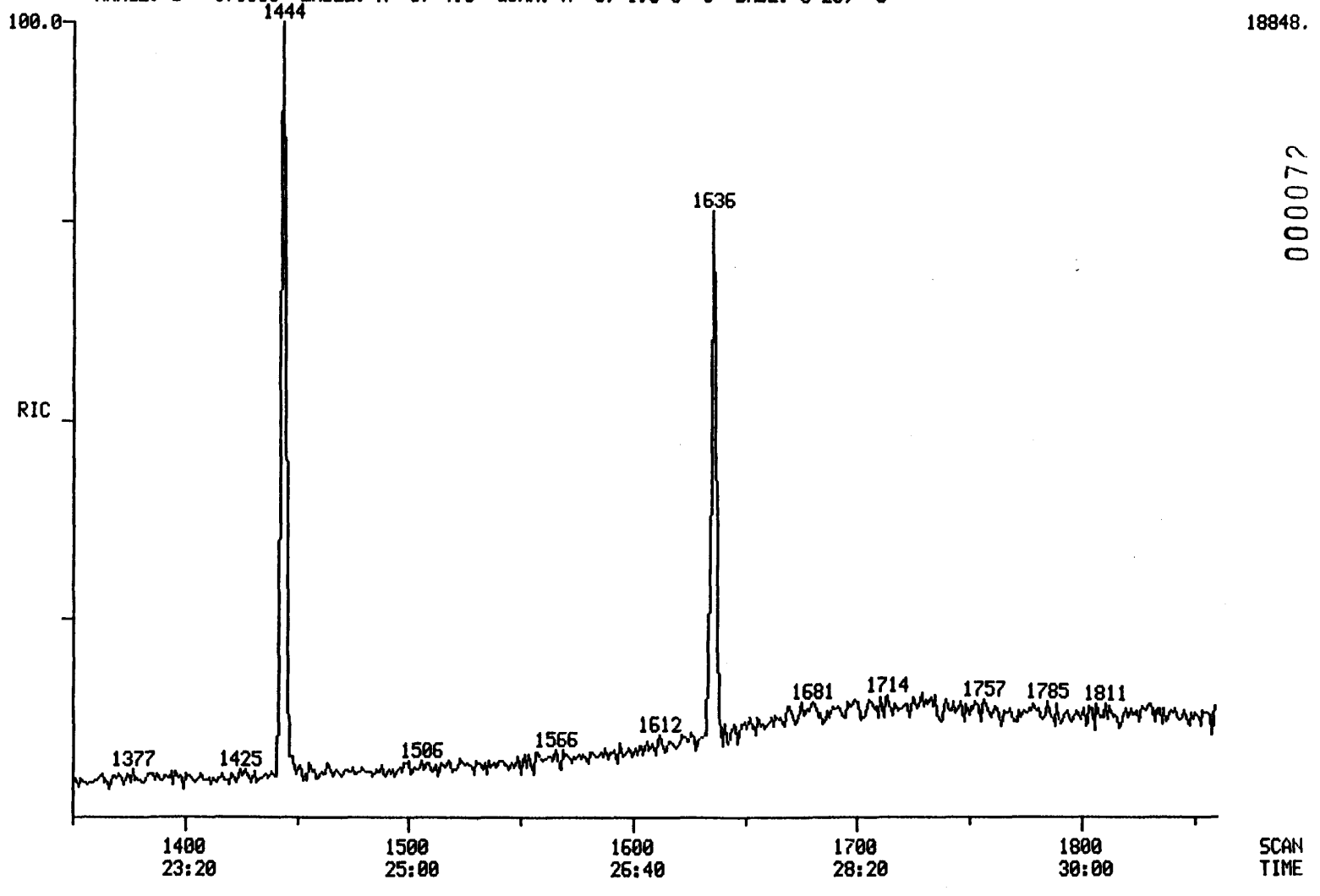
011575

CHESTER LABNET DC # ---14

RIC
04/23/93 9:32:00
SAMPLE: SBLK (LLS)
CONDS.: ---
RANGE: G 1,1860 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4U04082C01 #1
CALI: 4U04082C01 #3

SCANS 1350 TO 1860



INST ID: 4530

000072

011576

011576

CHESTER LABNET DC # ---14

SEMIVOLATILE SOIL REPORT

011577

SAMPLE ID.	SBLK (LLS)		
FILENAME	4U04082C01	INST ID.	4530
CLIENT	CHESTER	ANALYST	SC
DATE INJECTED	04/23/93 9:32:00	VERIFIED BY	SC
CALIB STD DATE	04/17/93	CORR. FACTOR	33.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	ARE
428	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	660 UG/KG	1.000	54
608	CI40	NAPHTHALENE-D8 ** IS2 **	136	660 UG/KG	1.000	353
858	CI50	ACENAPHTHENE-D10 ** IS3 **	164	660 UG/KG	1.000	159
1065	CI60	PHENANTHRENE-D10 ** IS4 **	188	660 UG/KG	1.000	208
1444	CI70	CHRYSENE-D12 ** IS5 **	240	660 UG/KG	1.000	162
1636	CI75	PERYLENE-D12 ** IS6 **	264	660 UG/KG	1.000	136
277	CS50	2-FLUOROPHENOL ** SU1 **	112	73 %	0.647	246
417	CS45	PHENOL-D5 ** SU2 **	99	79 %	0.974	342
974	CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	77 %	1.135	79
410	CS70	2-CHLOROPHENOL-D4 ** SU7 **	132	63 %	0.958	252
454	CS75	1,2-DICHLOROBENZENE-D4 ** SU	152	99 %	1.061	127
511	CS20	NITROBENZENE-D5 ** SU3 **	82	75 %	0.840	339
769	CS25	2-FLUOROBIPHENYL **SU4 **	172	82 %	0.896	469
1302	CS30	TERPHENYL-D14 ** SU6 **	244	111 %	0.902	481

011578

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	--	Laboratory:	CHESTER	Contract:	---
Inst ID:	4530	Sens Date:	04/23/93	Sens Time:	7:48:00
Lab ID:	ES0423C01A	Cali Date:	04/17/93	Analyst:	SC

Data release authorized by: Sheila Cheng

M/E	Ion Abundance Criteria	Spec # 363	
51	30 to 60% of mass 198	53.22	
68	less than 2% of mass 69	0.59	(0.82) 1
69	mass 69 relative abundance	71.38	
70	less than 2% of mass 69	0.57	(0.80) 1
127	40 TO 60% of mass 198	59.00	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	5.98	
275	10 TO 30% of mass 198	21.63	
365	greater than 1% of mass 198	2.43	
441	less than mass 443	8.42	
442	greater than 40% of mass 198	63.40	
443	17 TO 23% of mass 442	11.07	(17.47) 2

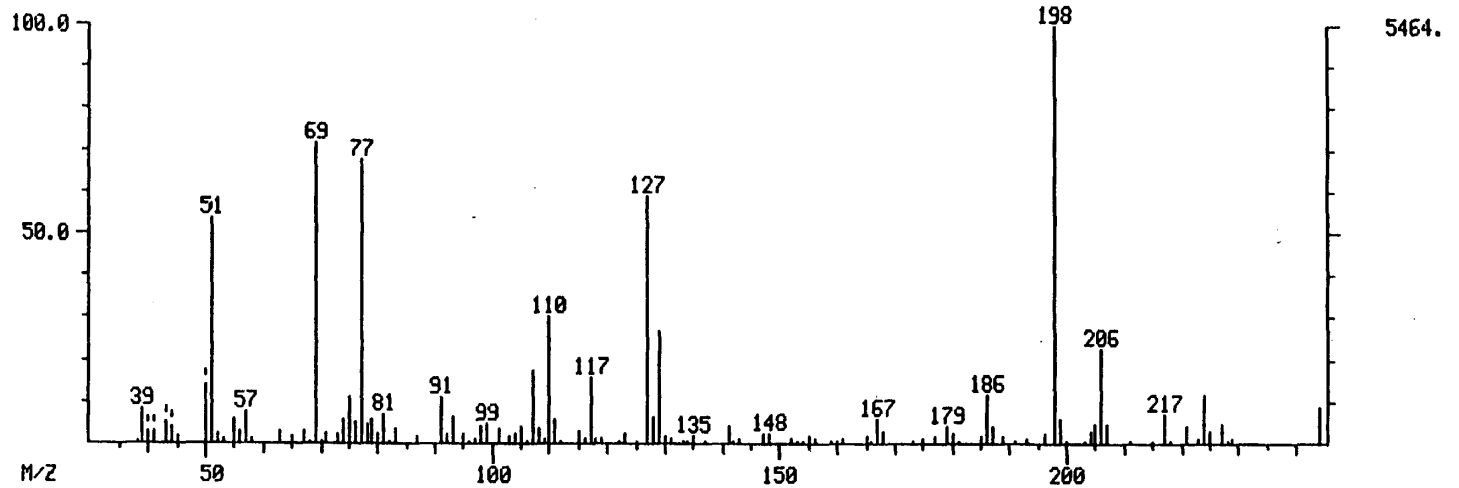
1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

CHESTER LABNET DC # ---15

MASS SPECTRUM
04/23/93 7:48:00 + 6:04
SAMPLE: DFTPP
CONDS.: ---
#363 TO #365 SUMMED - #207

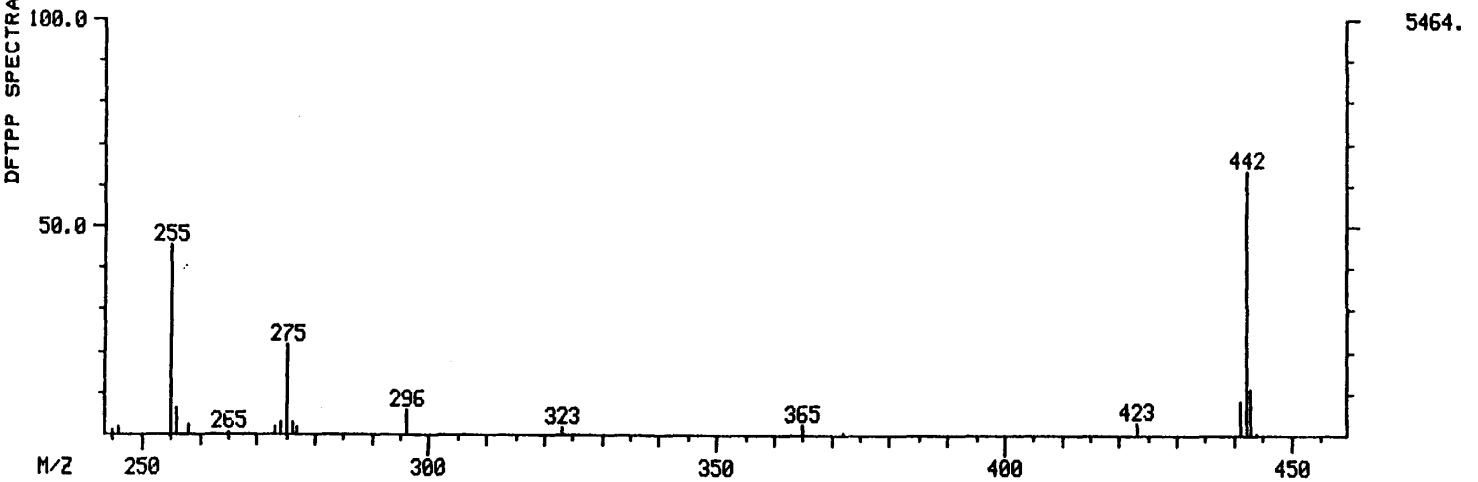
DATA: ES0423C01A #364
CALI: ES0423C01A #3

BASE M/Z: 198
RIC: 53248.



DFTPP SPECTRA

INST ID: 4530



000075

011579

011579

011580

INST ID: 4530 CHESTER LABNET DC # ---15

DFTPP MASS LISTING

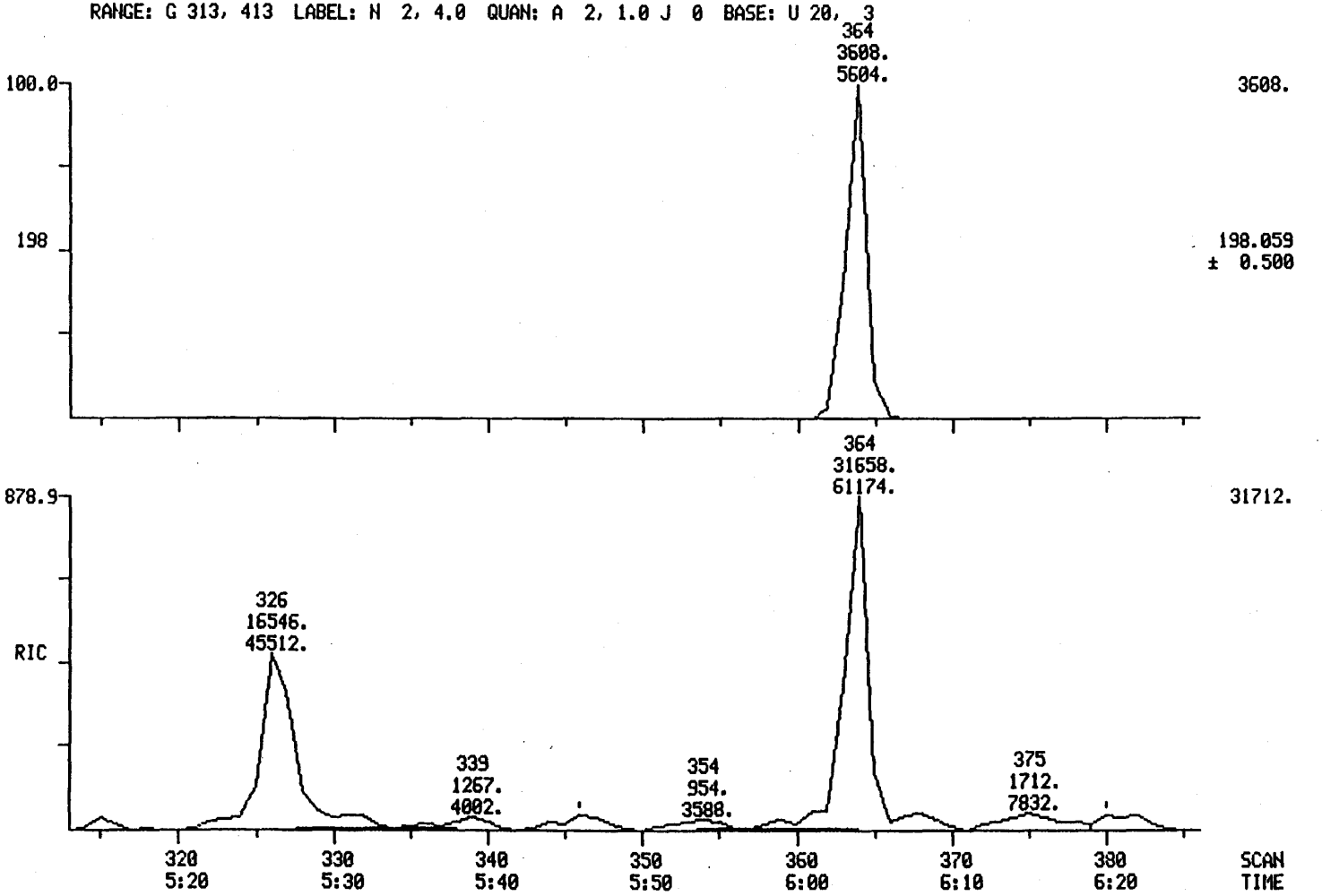
Mass List Data: ES0423C01A # 364 Base m/z: 198
04/23/93 7:48:00 + 6:04 Cali: ES0423C01A # 3 RIC: 53248.
Sample: DFTPP
Conds.: ---
#363 to #365 summed - #207

38 0.00 0. Minima Min Inten: 69.
444 Maxima # 0

Mass		% RA	Inten.	Mass	% RA	Inten.
39.00?		7.91	432.	130.00	1.81	99.
40.00	S	2.80	153.	135.00	1.61	88.
41.00	S	3.17	173.	141.00	3.95	216.
43.00	S	5.16	282.	143.00	1.41	77.
44.00	S	4.28	234.	147.00	2.09	114.
45.00		1.78	97.	148.00	2.14	117.
50.00	S	13.93	761.	155.00	1.54	84.
51.00	S	53.22	2908.	165.00	1.89	103.
52.00		2.43	133.	167.00	5.60	306.
53.00		1.34	73.	168.00	2.65	145.
55.00		5.56	304.	177.00	1.68	92.
56.00		3.18	174.	179.00	4.32	236.
57.00		7.49	409.	180.00	2.56	140.
63.00		3.04	166.	185.00	1.61	88.
65.00		1.92	105.	186.00	11.84	647.
67.00		2.98	163.	187.00	4.32	236.
69.00		71.38	3900.	189.00	1.85	101.
71.00		2.20	120.	196.00	2.09	114.
73.00		2.51	137.	198.00	100.00	5464.
74.00		5.89	322.	199.00	5.98	327.
75.00		11.11	607.	204.00	3.09	169.
76.00		4.96	271.	205.00	4.70	257.
77.00		67.42	3684.	206.00	22.69	1240.
78.00		4.83	264.	207.00	4.52	247.
79.00		5.77	315.	217.00	7.01	383.
80.00		2.45	134.	221.00	3.79	207.
81.00		6.84	374.	224.00	11.35	620.
83.00		3.77	206.	225.00	2.67	146.
87.00		1.57	86.	227.00	4.63	253.
91.00		11.31	618.	229.00	1.43	78.
92.00		2.09	114.	244.00	8.88	485.
93.00		6.59	360.	246.00	1.46	80.
95.00		2.16	118.	255.00	45.10	2464.
97.00		1.45	79.	256.00	6.22	340.
98.00		4.10	224.	258.00	2.45	134.
99.00		4.61	252.	273.00	1.67	91.
101.00		3.70	202.	274.00	2.93	160.
103.00		1.46	80.	275.00	21.63	1182.
104.00		2.43	133.	276.00	2.64	144.
105.00		4.32	236.	277.00	1.65	90.
107.00		17.22	941.	296.00	5.56	304.
108.00		3.40	186.	323.00	1.65	90.
110.00		30.09	1644.	365.00	2.43	133.
111.00		5.77	315.	423.00	2.96	162.
115.00		3.07	168.	441.00	8.42	460.
117.00		15.43	843.	442.00	63.40	3464.
123.00		2.32	127.	443.00	11.07	605.
127.00		59.00	3224.			
128.00		6.52	356.			
129.00		26.46	1446.			

RIC+MASS CHROMATOGRAM
04/23/93 7:48:00
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 313, 413 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3

DATA: ES0423C01A #363 SCANS 313 TO 386
CALI: ES0423C01A #3



000077

011581

011581

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	--	Laboratory:	CHESTER	Contract:	---
Inst ID:	4530	Sens Date:	04/24/93	Sens Time:	14:58:00
Lab ID:	ES0424C01	Cali Date:	04/17/93	Analyst:	JZ

Data release authorized by:

M/E	Ion Abundance Criteria	Spec # 356	
51	30 to 60% of mass 198	32.24	
68	less than 2% of mass 69	0.00	(0.00) 1
69	mass 69 relative abundance	50.65	
70	less than 2% of mass 69	0.00	(0.00) 1
127	40 TO 60% of mass 198	53.40	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	5.43	
275	10 TO 30% of mass 198	21.93	
365	greater than 1% of mass 198	1.88	
441	less than mass 443	7.57	
442	greater than 40% of mass 198	62.54	
443	17 TO 23% of mass 442	11.93	(19.08) 2

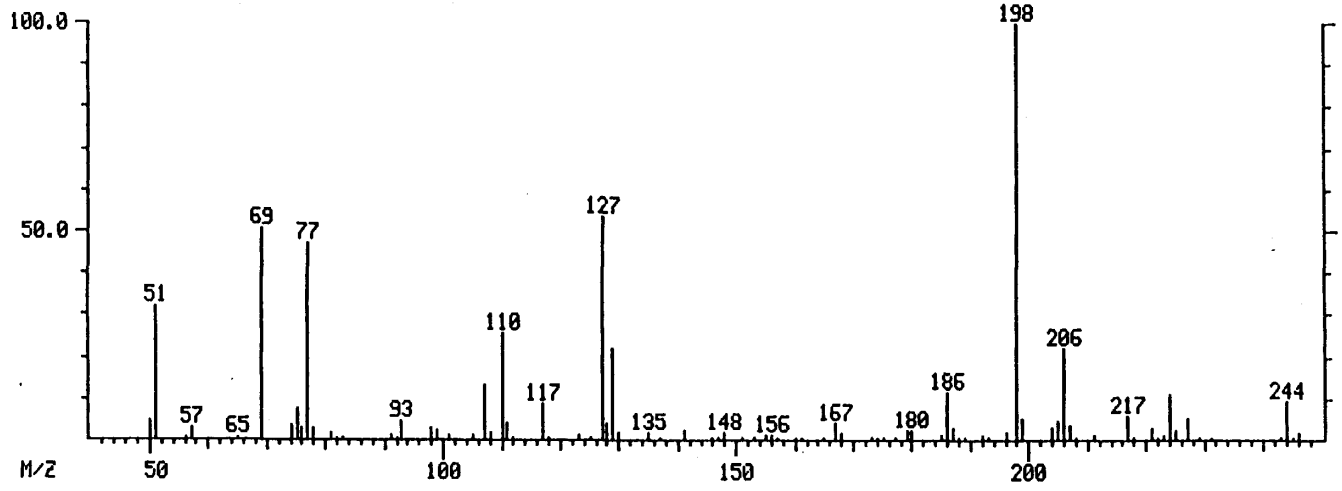
1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

CHESTER LABNET DC # ---15

MASS SPECTRUM
04/24/93 14:58:00 + 5:57
SAMPLE: DFTPP
CONDS.: ---
#356 TO #358 SUMMED - #300

DATA: ES0424C01 #357
CALI: ES0424C01 #3

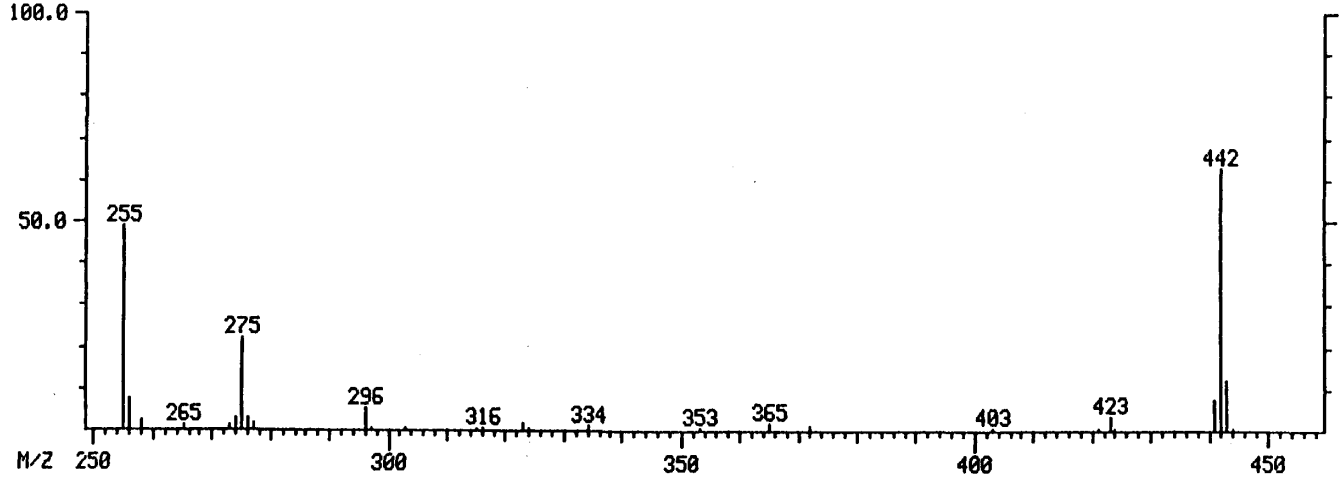
BASE M/Z: 198
RIC: 72192.



9888.

DFTPP SPECTRA

INST ID: 4530



9888.

000079

011583

011583

011584

INST ID: 4530 CHESTER LABNET DC # ---15

DFTPP MASS LISTING

Mass List Data: ES0424C01 # 357 Base m/z: 198

04/24/93 14:58:00 + 5:57 Cali: ES0424C01 # 3 RIC: 72192.

Sample: DFTPP

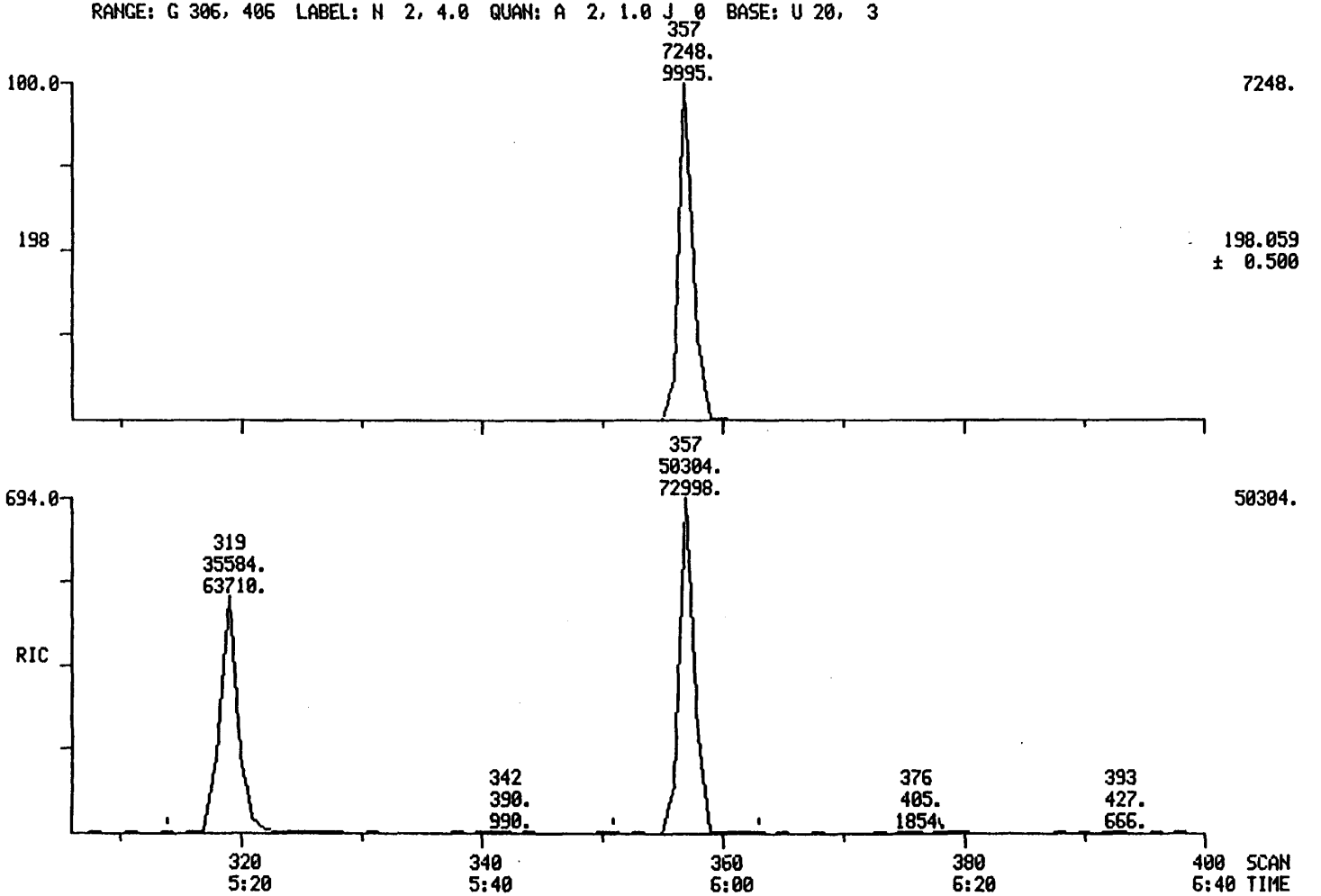
Conds.: ---

#356 to #358 summed - #300

50	0.00	0.	Minima	Min Inten:	41.
444			Maxima	# 0	
Mass	% RA	Inten.	Mass	% RA	Inten.
50.00	4.71	466.	185.00	1.32	131.
51.00	32.24	3188.	186.00	11.87	1174.
56.00	0.72	71.	187.00	2.72	269.
57.00	2.72	269.	188.00	0.50	49.
69.00	50.65	5008.	189.00	0.58	57.
74.00	3.33	329.	192.00	1.23	122.
75.00	7.41	733.	193.00	0.64	63.
76.00	2.94	291.	196.00	1.85	183.
77.00	46.84	4632.	198.00	100.00	9888.
78.00	2.89	286.	199.00	5.43	537.
81.00	2.02	200.	204.00	2.80	277.
83.00	0.76	75.	205.00	4.79	474.
91.00	1.01	100.	206.00	22.01	2176.
92.00	0.63	62.	207.00	3.45	341.
93.00	4.70	465.	211.00	0.90	89.
98.00	2.89	286.	217.00	5.60	554.
99.00	2.59	256.	221.00	3.20	316.
101.00	1.05	104.	223.00	1.06	105.
105.00	1.33	132.	224.00	11.02	1090.
107.00	13.09	1294.	225.00	2.31	228.
108.00	1.90	188.	227.00	5.21	515.
110.00	25.32	2504.	229.00	0.78	77.
111.00	3.98	394.	231.00	0.46	45.
117.00	8.62	852.	243.00	0.58	57.
118.00	0.61	60.	244.00	9.51	940.
123.00	0.89	88.	245.00	0.80	79.
127.00	53.40	5280.	246.00	1.47	145.
128.00	3.92	388.	255.00	48.71	4816.
129.00	22.05	2180.	256.00	7.77	768.
130.00	1.60	158.	258.00	2.09	207.
135.00	1.60	158.	265.00	1.05	104.
137.00	0.52	51.	273.00	1.30	129.
141.00	2.48	245.	274.00	2.99	296.
147.00	0.66	65.	275.00	21.93	2168.
148.00	1.81	179.	276.00	2.72	269.
151.00	0.52	51.	277.00	1.50	148.
153.00	0.70	69.	296.00	5.05	499.
155.00	1.26	125.	297.00	0.74	73.
156.00	1.45	143.	316.00	0.46	45.
157.00	0.67	66.	323.00	1.86	184.
160.00	0.63	62.	324.00	0.57	56.
161.00	0.43	43.	334.00	1.40	138.
167.00	4.14	409.	365.00	1.88	186.
168.00	1.59	157.	372.00	1.06	105.
173.00	0.43	43.	421.00	0.48	47.
174.00	0.73	72.	423.00	3.43	339.
175.00	0.79	78.	441.00	7.57	749.
177.00	0.43	43.	442.00	62.54	6184.
179.00	2.22	220.	443.00	11.93	1180.
180.00	2.56	253.	444.00	0.76	75.

RIC+MASS CHROMATOGRAM
04/24/93 14:58:00
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 306, 406 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3

DATA: ES0424C01 #356 SCANS 306 TO 400
CALI: ES0424C01 #3



180000

011585

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number 18804

Project Location South Cav.

Laboratory Chester

Sampler(s) Wes Fiandt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	PSA CPAH										TOTAL
SC-W1-10(DWC) F	4/8/93	X										
SC Duplicate F		X										
SC W2-4 (SD) G		X										
SC W2-4 (SSD) G		X										
SC W2-4 (MCD) G		X										
SC W2-4 (C1/C2) G		X										
SC Duplicate G		X										
SC W2-4 (DWC) G	4/12/93	X										

000082

Relinquished by: W. Fiandt	Organization: Dames + Moore	Date: 4/12/93	Time 4:45 PM	Seal Intact?
Received by: [illegible]	Organization: KEYSTONE	Date: 4/12/93	Time 4:45 PM	Yes No N/A
Relinquished by:	Organization:	Date: / /	Time	Seal Intact?
Received by:	Organization:	Date: / /	Time	Yes No N/A

Special Instructions / Remarks:

Delivery Method: ☐ In Person ☐ Common Carrier _____ specify ☒ Lab Courier ☐ Other _____ specify

011586

011586

DRY WEIGHT TEST

KEYSTONE LAB-HOUSTON

CLIENT DAMES - MOOR

LAB NO. M93-4C-82

ANALYST JL

DATE 4-13-93

DASH NO.	I.D. NO.	TARE WT. (a)	TARE (b) + WET SX.	TARE (c) + DRY SX.	DIFF. IN WT. OF H_2O LOST(d)	CORRECTION FACTOR (e)	WT. OF SX. USED FOR EXTR. (f)	DRY WT. (g)	DRY WT. FACTOR (h)
002	SC-W1-10 (DWC) F	1.54	5.94	2.57	3.37	0.234			4.27
003	SC-DUP F	1.51	5.53	2.43	3.1	0.228			4.39
004	SCW2-4 (SO) G	1.51	5.64	4.59	1.05	0.745			1.34
005	SCW2-4 (SSO) G	1.53	5.31	4.70	0.61	0.838			1.19
006	SCW2-4 (MCO) G	1.54	6.22	5.09	1.13	0.758			1.32
007	SCW2-4 (C1/C2) G	1.55	6.44	5.00	1.44	0.705			1.42
008	SC DUP. G	1.55	6.48	5.43	1.05	0.787			1.27
009	SCW2-4 (DWC) G	1.52	5.28	2.16	3.12	0.170			5.88
	Nothing Follows			Nothing Follows				Nothing Follows	

000083

000106

d = (b-a) - (c-a) g = f (c-a)/(b-a) h = f/g = 1/e e = c-a / b-a

Date Submitted: 4/14/93

Submitted By ERC

011587

011587

011588

13-APR-1993

KEYSTONE LAB - HOUSTON
Job Summary Sheet

Produced on 13-APR-1993

PRIORITY

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-04.82
Due Date : 15-APR-1993
Date Rec'd : 12-APR-1993
Project ID :
P.O. Number: 18804

Attention:

Contact: WES FIANDT

Job Description: DAMES & MOORE (RCRA)
Number of samples: 9 Sampled by: CLIENT

Job Comments:
RUSH!! 72 HOUR TURNAROUND. RESULTS DUE BY 4/15/93. MS_SV:FOR SV_TCL_SX, PLEA
ANALYZE FOR PAH'S.
SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Pnt.	Sample Matrix	Date Sampled
82-001	LAB BLANK	QA_QC	SOIL	8-APR-93
82-002	SC-W1-10 (DWC) F	X	SOIL	8-APR-93
82-003	SC DUPLICATE F	X	SOIL	8-APR-93
82-004	SCW2-4 (SD) G	X	SOIL	8-APR-93
82-005	SCW2-4 (SSD) G	X	SOIL	8-APR-93
82-006	SC W2-4 (MCD) G	X	SOIL	8-APR-93
82-007	SCW2-4 (C1/C2) G	X	SOIL	8-APR-93
82-008	SC DUPLICATE G	X	SOIL	8-APR-93
82-009	SCW2-4 (DWC) G	X	SOIL	12-APR-93

Analysis ID	Parameter Description	Number of Analyses
DRY_WT	Dry Weight Factor	9
EXT_8270SX	(Soil) Extraction by EPA 8270	9
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil	9

000084

011589

S ✓
H ✓
CC ✓
B ✓
PM

Report
Prepared
for

Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Attention : Bruce Hickman

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID :
P.O. NUMBER : 18804-168

WORK ORDER : H93-03.245
DATE RECEIVED : 26-MAR-1993

SAMPLE & ANALYSIS SUMMARY

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-03.245-001	LAB BLANK	24-MAR-1993	SOIL
H93-03.245-002	SC-3-3-6 (C1/C2)A	24-MAR-1993	SOIL
H93-03.245-003	SC-W-3-6 (MCD)A	24-MAR-1993	SOIL
H93-03.245-004	SC-W-3-6 (SSD)A	26-MAR-1993	SOIL

Analysis ID	Parameter Description
DRY_WT	Dry Weight Factor
EXT_8270SX	(Soil) Extraction by EPA 8270
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON DOC. CONT NO:NA

PROJECT NO.: 18804-16B SITE: S. CAVALCADE

LAB NO.:H93-03.245

I. RECEIPT

A. DATE: MAR. 26, 1993

B. NO. OF SAMPLES: 3 SAMPLES.

C. CLIENT ID NUMBERS: SC-W-3-6 (C1/C2)A
SC-W-3-6 (MCA)A
SC-W-3-6 (SSD)A

D. SAMPLE TYPE: Soils

E. ANALYSIS REQUESTED: cPAH (8270)
Grain Size (D-422)

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: At the request of Dames & Moore (2) data sheets provided per sample in each Work Order. First Organics Analysis Data Sheet contains cPAH follow with Full PAH LISTING.
Quanitation Data sheet will give complete PAH amounts.

I. COMMENTS: The Report for Grain Size by ASTM (D-422) will follow under separate cover in order to expedite the PAH data.

According to Contract, all sample data Faxed (4/1/93) as a prelimiary to receival of Data Package.

Robert R. Barrientos

Robert R. Barrientos, Project Manager

April 06, 1993

Date

000001

011592

Keystone Lab - Houston
Soil Surrogate Recovery Summary
Keystone Work Order # H93-03.245

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK	68	59	81	86	75	37	59	73
SC-3-3-6 (C1/C2)A	DL	DL	DL	DL	DL	DL	DL	DL
SC-W-3-6 (MCD)A	DL	DL	DL	DL	DL	DL	DL	DL
SC-W-3-6 (SSD)A	DL	DL	DL	DL	DL	DL	DL	DL

Surrogate Name	QC LIMITS	Surrogate Name	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	22-120	S2 (FBP) = 2-Fluorobiphenyl	30-115
S3 (TPH) = Terphenyl-d14	18-137	S4 (PHL) = Phenol-d5	24-113
S5 (2FP) = 2-Fluorophenol	25-121	S6 (TBP) = 2,4,6-Tribromophenol	19-122
S7 (2CP) = 2-Chlorophenol-d4	20-130**	S8 (DCB) = 1,2-Dichlorobenzene-d4	20-130**

0 out of 8 : outside of QC limits.

* = Values are outside of QC limits ** = Advisory QC Limits NA = Not Applicable
DL = Diluted Out

000002

011593

INST ID: 4010 SAMPLE NUMBER: SC-W-3-6(C1/C2)A

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930324502 QC REPORT NO.: 03/30/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: RB DATE SAMPLE RECEIVED: 3/26/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U03245C02
DATE EXTRACTED: 3/29/93
DATE ANALYZED: 03/31/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	240	250
C740	CHRYSENE	240	240
C765	BENZO(B)FLUORANTHENE	240	240 J
C770	BENZO(K)FLUORANTHENE	240 U	
C775	BENZO(A)PYRENE	240	150 J
C780	INDENO(1,2,3-CD)PYRENE	240	75 J
C785	DIBENZO(A,H)ANTHRACENE	240 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011594

INST ID: 4510 SAMPLE NUMBER: SC-W-3-6(C1/C2)A

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930324502 QC REPORT NO.: 03/30/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 3/26/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U03245C02
DATE EXTRACTED: 3/29/93
DATE ANALYZED: 03/31/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	240	1200
C540	ACENAPHTHYLENE	240	30 J
C550	ACENAPHTHENE	240	720
C590	FLUORENE	240	810
C640	PHENANTHRENE	240	2000
C645	ANTHRACENE	240	780
C655	FLUORANTHENE	240	1100
C715	PYRENE	240	990
C730	BENZO(A)ANTHRACENE	240	250
C740	CHRYSENE	240	240
C765	BENZO(B)FLUORANTHENE	240	240 J
C770	BENZO(K)FLUORANTHENE	240 U	
C775	BENZO(A)PYRENE	240	150 J
C780	INDENO(1,2,3-CD)PYRENE	240	75 J
C785	DIBENZO(A,H)ANTHRACENE	240 U	
C790	BENZO(GHI)PERYLENE	240	61 J

U : UNDETECTED AT THE LISTED DETECTION LIMIT
J : COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011594

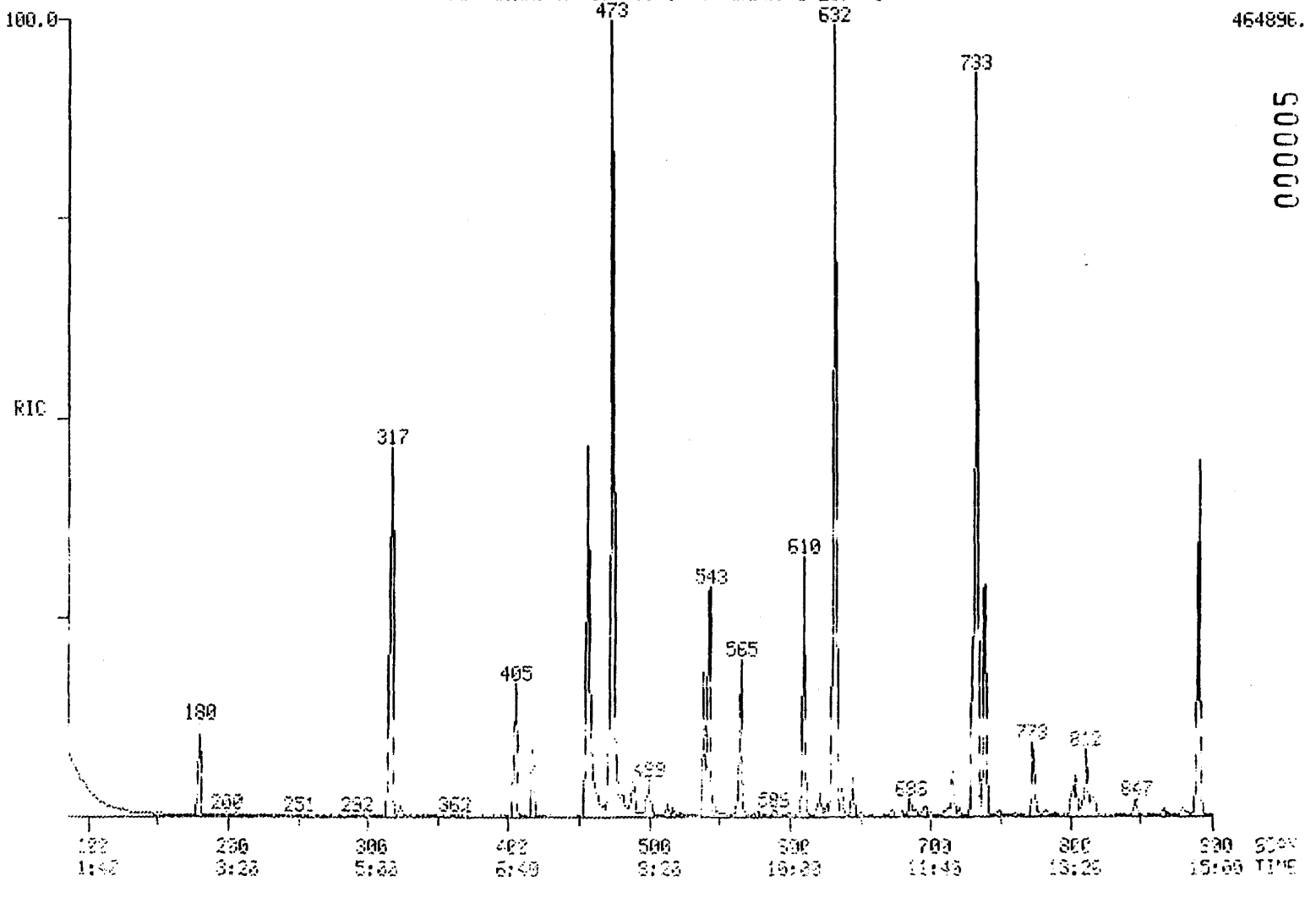
-14

RIC
03/31/93 21:33:00
SAMPLE: SC-W-3-6(C1/C2)A
CONDS.: ---
RANGE: G 1.1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U03245C02 #1 SCANS 85 TO 900
CALI: 9U03245C02 #3

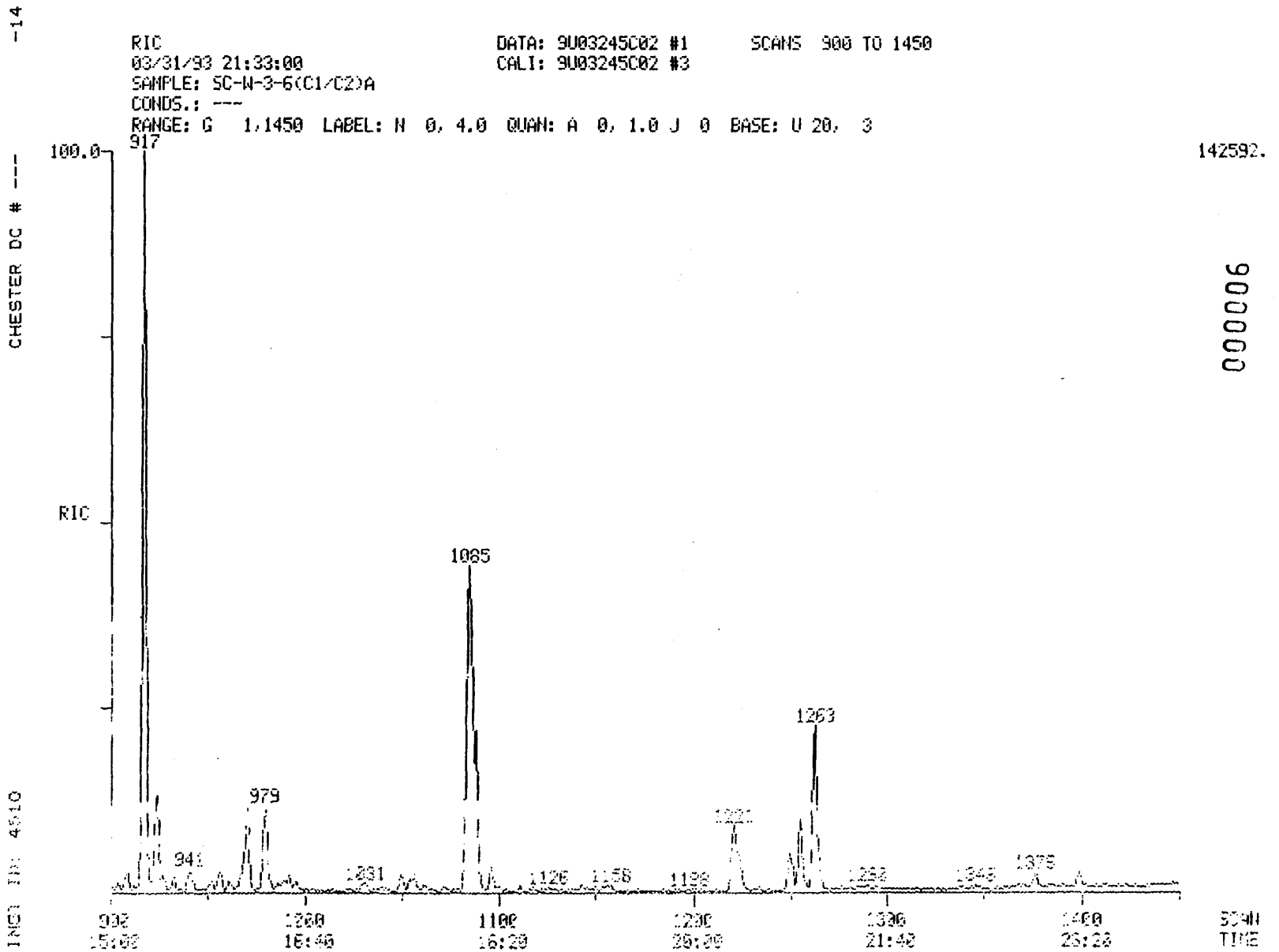
CHESTER DC # ---

INST ID: 4010



000005

011595


RIC
03/31/93 21:33:00
SAMPLE: SC-W-3-6(C1/C2)A
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 9U03245C02 #1
CALI: 9U03245C02 #3
SCANS 900 TO 1450
CHESTER DC # ---
-14
100.0
RIC
917
941
979
1085
1263
1221
1231
1126
1158
1198
1260
1346
1375
142592.
900
1000
1100
1200
1300
1400
15:00
16:40
16:20
20:00
21:40
23:20
SCAN
TIME
INST IN: 4510

011596

011597

SAMPLE ID.	SC-W-3-6(C1/C2)A		
FILENAME	9U03245C02	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JDD
DATE INJECTED	03/31/93 21:33:00	VERIFIED BY	JDD
CALIB STD DATE	03/30/93	CORR. FACTOR	24.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	ARE.
180	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	480	MG/KG	1.000	178
315	C140	NAPHTHALENE-D8 ** IS2 **		136	480	MG/KG	1.000	726.
539	C150	ACENAPHTHENE-D10 ** IS3 **		164	480	MG/KG	1.000	482
730	C160	PHENANTHRENE-D10 ** IS4 **		188	480	MG/KG	1.000	786
1085	C170	CHRYSENE-D12 ** IS5 **		240	480	MG/KG	1.000	444
1262	C175	PERYLENE-D12 ** IS6 **		264	480	MG/KG	1.000	291
317	C450	NAPHTHALENE	39B	128	1241	MG/KG	1.006	2032
517	C540	ACENAPHTHYLENE	2B	152	30	MG/KG	0.959	55
542	C550	ACENAPHTHENE	1B	153	723	MG/KG	1.006	765
610	C590	FLUORENE	32B	166	810	MG/KG	1.132	1093
733	C640	PHENANTHRENE	44B	178	2008	MG/KG	1.004	3702
738	C645	ANTHRACENE	3B	178	776	MG/KG	1.011	1499
891	C685	FLUORANTHENE	31B	202	1139	MG/KG	1.221	2000
917	C715	PYRENE	45B	202	987	MG/KG	0.845	1331
1083	C730	BENZO(A)ANTHRACENE	5B	228	248	MG/KG	0.998	279
1083	C740	CHRYSENE	18B	228	243	MG/KG	1.003	266.
1231	C765	BENZO(B)FLUORANTHENE	7B	252	237	MG/KG	0.968	206
1235	C775	BENZO(A)PYRENE	6B	252	152	MG/KG	0.994	106
1376	C780	INDENO(1,2,3-CD)PYRENE	37B	276	75	MG/KG	1.090	36
1399	C790	BENZO(GHI)PERYLENE	8B	276	61	MG/KG	1.109	33

*SURROGATES WERE DILUTED OUT

011597

INST ID: 4010 SAMPLE NUMBER: SC-W-3-6(MCD)A

011598

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930324503 QC REPORT NO.: 03/30/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: RB DATE SAMPLE RECEIVED: 3/26/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U03245C03
DATE EXTRACTED: 3/29/93
DATE ANALYZED: 03/31/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	220	710
C740	CHRYSENE	220	720
C745	BENZO(B)FLUORANTHENE	220	1000
C750	BENZO(K)FLUORANTHENE	220 U	
C755	BENZO(A)PYRENE	220	620
C760	INDENO(1,2,3-CD)PYRENE	220	370
C765	DIBENZO(A,H)ANTHRACENE	220	130 J

U : UNDETECTED AT THE LISTED DETECTION LIMIT
J : COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011599

INST ID: 4910 SAMPLE NUMBER: SC-W-3-6(MCD)A

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930324503 QC REPORT NO.: 03/30/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: DATE SAMPLE RECEIVED: 3/26/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U03245C03
DATE EXTRACTED: 3/29/93
DATE ANALYZED: 03/31/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	220	1600
C540	ACENAPHTHYLENE	220	54 J
C550	ACENAPHTHENE	220	1000
C590	FLUORENE	220	1400
C640	PHENANTHRENE	220	3400
C645	ANTHRACENE	220	2400
C655	FLUORANTHENE	220	1800
C715	PYRENE	220	1800
C730	BENZO(A)ANTHRACENE	220	710
C740	CHRYSENE	220	720
C745	BENZO(B)FLUORANTHENE	220	1000
C750	BENZO(K)FLUORANTHENE	220 U	
C755	BENZO(A)PYRENE	220	620
C780	INDENO(1,2,3-CD)PYRENE	220	370
C785	DIBENZO(A,H)ANTHRACENE	220	130 J
C790	BENZO(GHI)PERYLENE	220	330

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011599

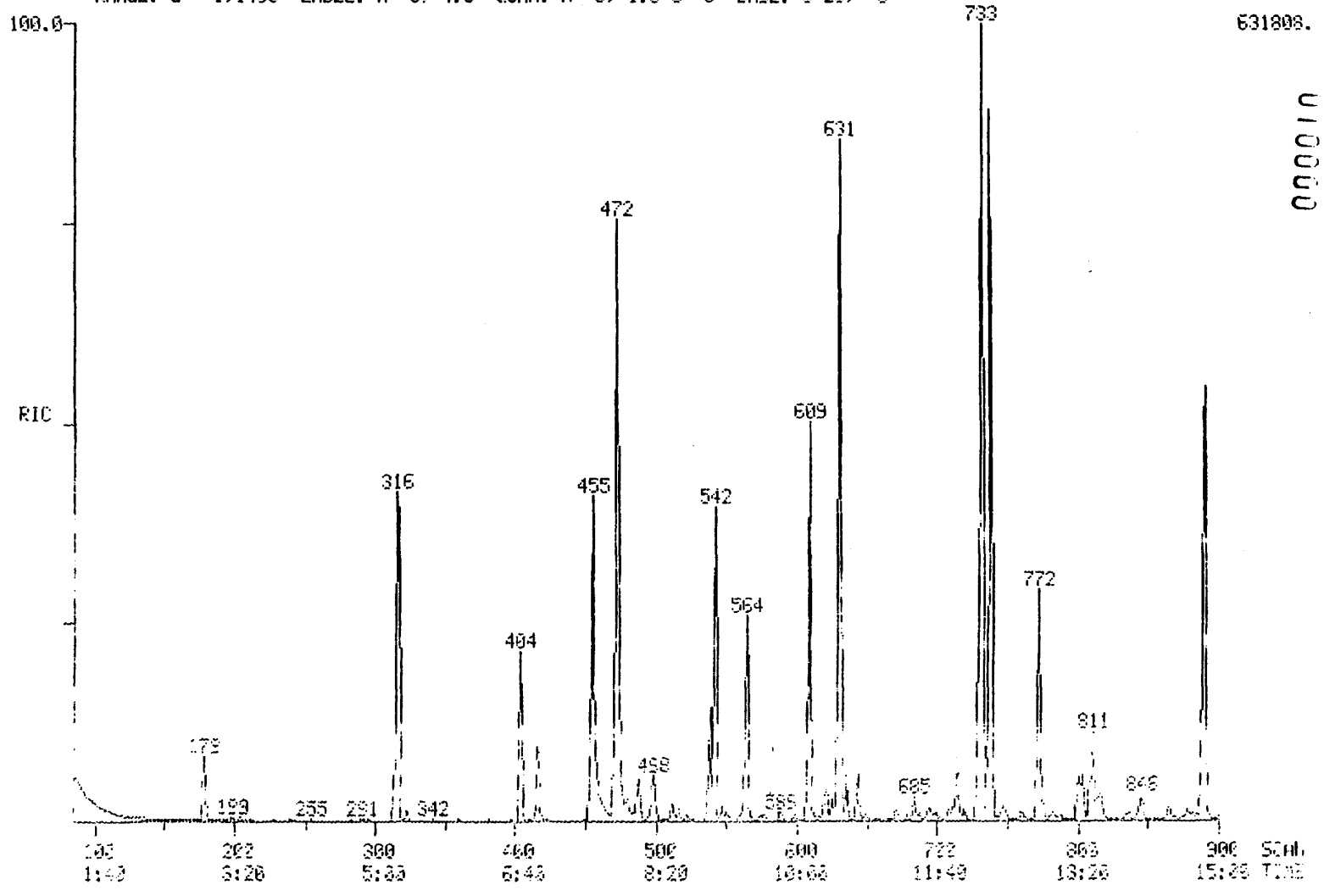
-14

RIC
03/31/93 20:58:00
SAMPLE: SC-W-3-6(MCD)A
CONDS.: ---
RANGE: G 1;1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U03245C03 #1 SCANS 85 TO 900
CALI: 9U03245C03 #3

CHESTER DC # ---

INST ID: 4010



011600

-14

RIC
03/31/93 20:58:00
SAMPLE: SC-W-3-6(MCD)A
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

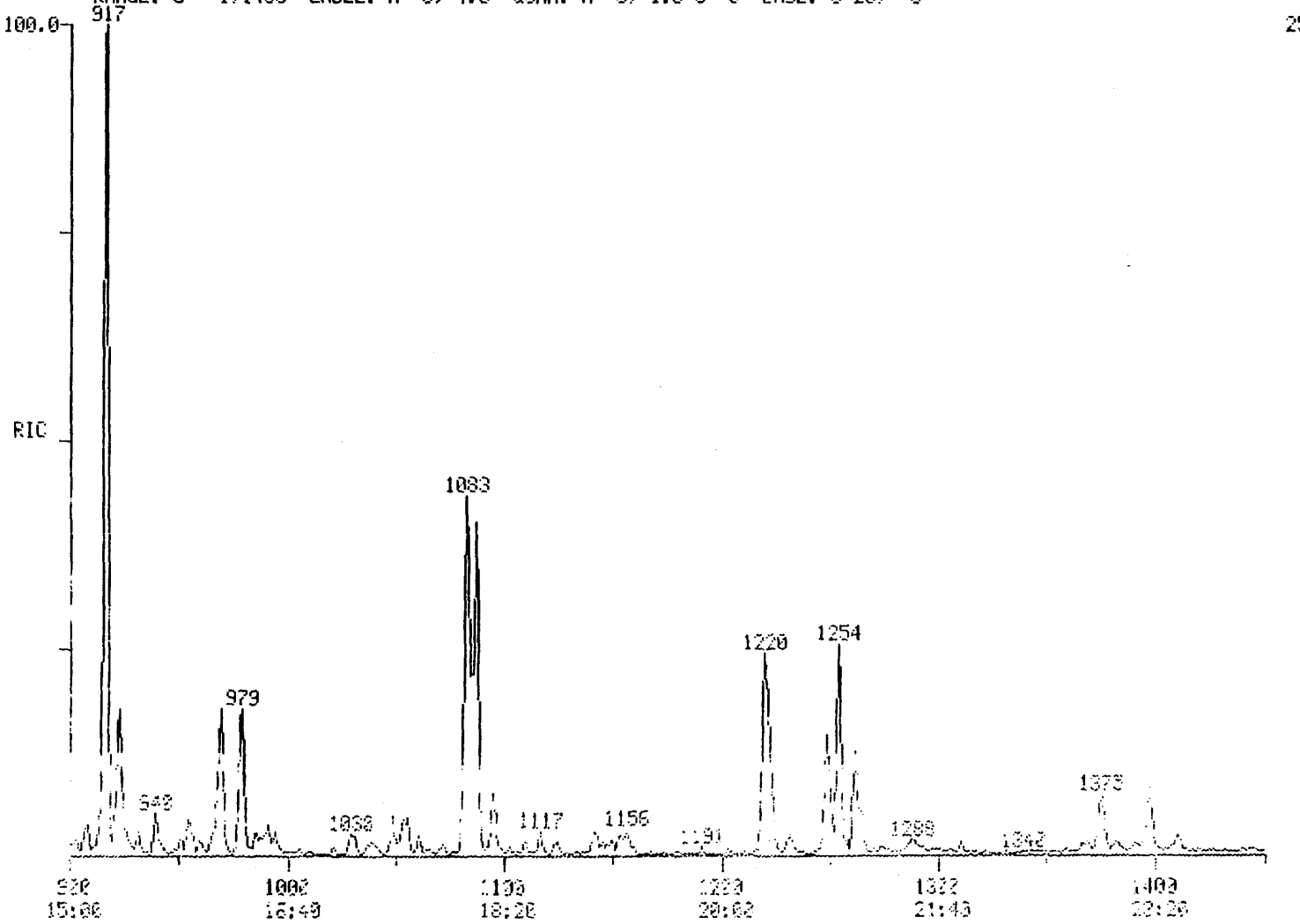
DATA: 9U03245C03 #1 SCANS 900 TO 1450
CALI: 9U03245C03 #3

250624.

110000

CHESTER DC # ---

INST ID: 6310



011601

011601

011602

SAMPLE ID. SC-W-3-6(MCD)A

FILENAME 9U03245C03 INST ID. 4510

CLIENT DAMES&MO ANALYST JDD

DATE INJECTED 03/31/93 20:58:00 VERIFIED BY JDD

CALIB STD DATE 03/30/93 CORR. FACTOR 22.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	ARE
179	C030	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	440	MG/KG	1.000	168
314	C140	NAPHTHALENE-D8 ** IS2 **		136	440	MG/KG	1.000	686
538	C350	ACENAPHTHENE-D10 ** IS3 **		164	440	MG/KG	1.000	483
729	C460	PHENANTHRENE-D10 ** IS4 **		188	440	MG/KG	1.000	770
1084	C670	CHRYSENE-D12 ** IS5 **		240	440	MG/KG	1.000	434
1262	C770	PERYLENE-D12 ** IS6 **		264	440	MG/KG	1.000	279
316	C450	NAPHTHALENE	39B	128	1578	MG/KG	1.006	2666
516	C540	ACENAPHTHYLENE	2B	152	54	MG/KG	0.959	107
542	C530	ACENAPHTHENE	1B	153	1031	MG/KG	1.007	1194
609	C590	FLUORENE	32B	166	1417	MG/KG	1.132	2092
732	C640	PHENANTHRENE	44B	178	3417	MG/KG	1.004	6730
738	C645	ANTHRACENE	3B	178	2375	MG/KG	1.012	4899
891	C735	FLUORANTHENE	31B	202	1761	MG/KG	1.222	3302
916	C715	PYRENE	45B	202	1814	MG/KG	0.845	2610
1083	C730	BENZO(A)ANTHRACENE	5B	228	714	MG/KG	0.999	858
1087	C740	CHRYSENE	18B	228	723	MG/KG	1.003	842
1230	C765	BENZO(B)FLUORANTHENE	7B	252	1016	MG/KG	0.967	925
1234	C775	BENZO(A)PYRENE	6B	252	624	MG/KG	0.994	459
1375	C830	INDENO(1,2,3-CD)PYRENE	37B	276	374	MG/KG	1.090	186
1383	C835	DIBENZO(A,H)ANTHRACENE	19B	278	131	MG/KG	1.096	66
1398	C790	BENZO(GHI)PERYLENE	8B	276	326	MG/KG	1.108	184

*SURROGATES WERE DILUTED OUT

011602

011603

INST ID: 4010 SAMPLE NUMBER: SC-W-3-6(SSD)A

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930324504 QC REPORT NO.: 03/30/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: TB DATE SAMPLE RECEIVED: 3/26/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U03245C04
DATE EXTRACTED: 3/29/93
DATE ANALYZED: 03/31/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	120	190
C740	CHRYSENE	120	190
C765	BENZO(B)FLUORANTHENE	120	260
C770	BENZO(K)FLUORANTHENE	120 U	
C775	BENZO(A)PYRENE	120	160
C780	INDENO(1,2,3-CD)PYRENE	120	94 J
C785	DIBENZO(A,H)ANTHRACENE	120	16 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011604

)NOT ID: 4310 SAMPLE NUMBER: SC-W-3-6(SSD)A

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930324504 GC REPORT NO.: 03/30/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: ..3/26/93...

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U03245C04
DATE EXTRACTED: ..3/29/93.....
DATE ANALYZED: 03/31/93

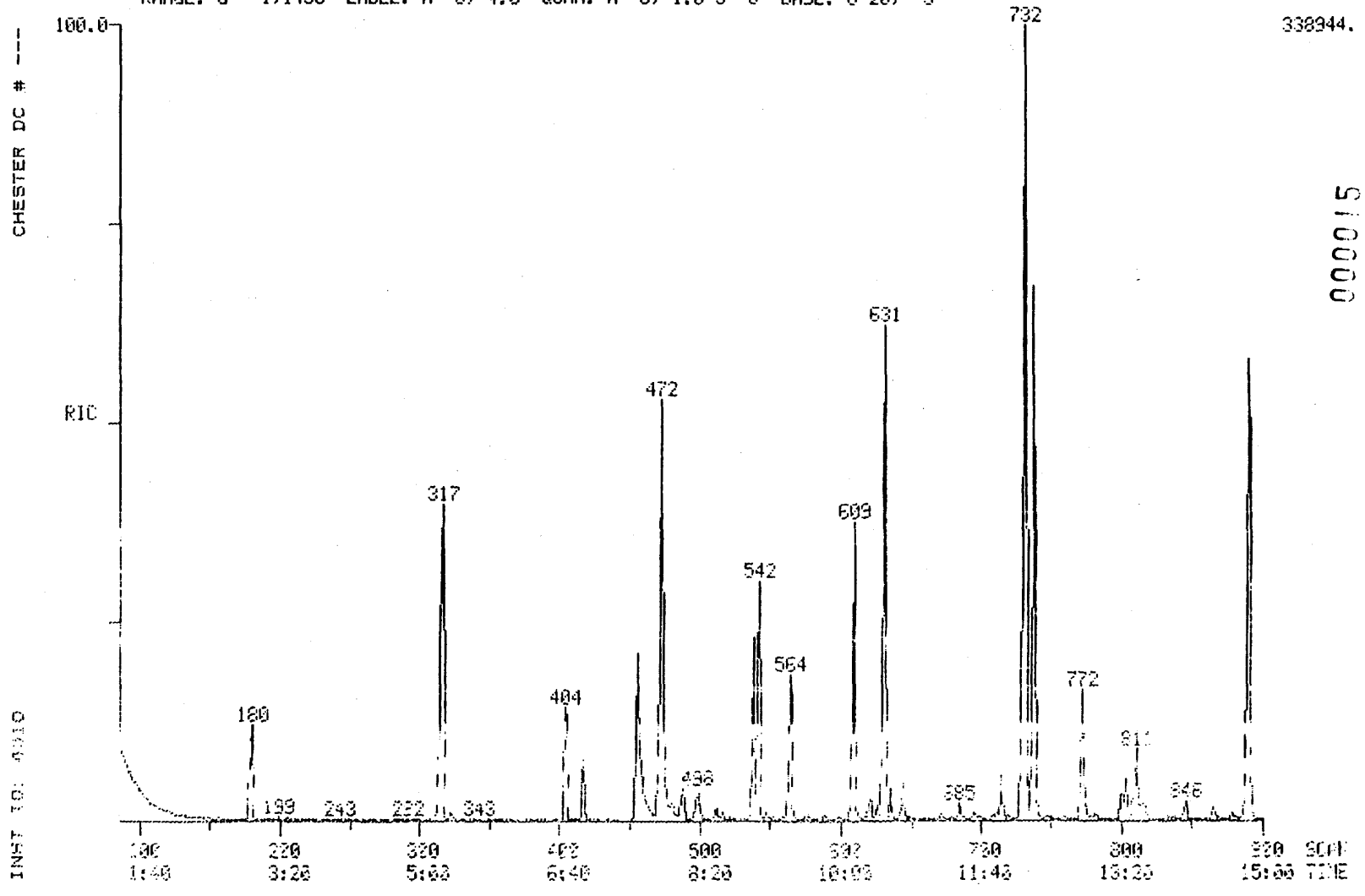
	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	120	510
C540	ACENAPHTHYLENE	120	15 J
C550	ACENAPHTHENE	120	260
C590	FLUORENE	120	360
C640	PHENANTHRENE	120	980
C645	ANTHRACENE	120	660
C655	FLUORANTHENE	120	630
C715	PYRENE	120	490
C730	BENZO(A)ANTHRACENE	120	190
C740	CHRYSENE	120	190
C765	BENZO(B)FLUORANTHENE	120	260
C770	BENZO(K)FLUORANTHENE	120 U	
C775	BENZO(A)PYRENE	120	160
C780	INDENO(1,2,3-CD)PYRENE	120	94 J
C785	DIBENZO(A,H)ANTHRACENE	120	16 J
C790	BENZO(GHI)PERYLENE	120	71 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

-14

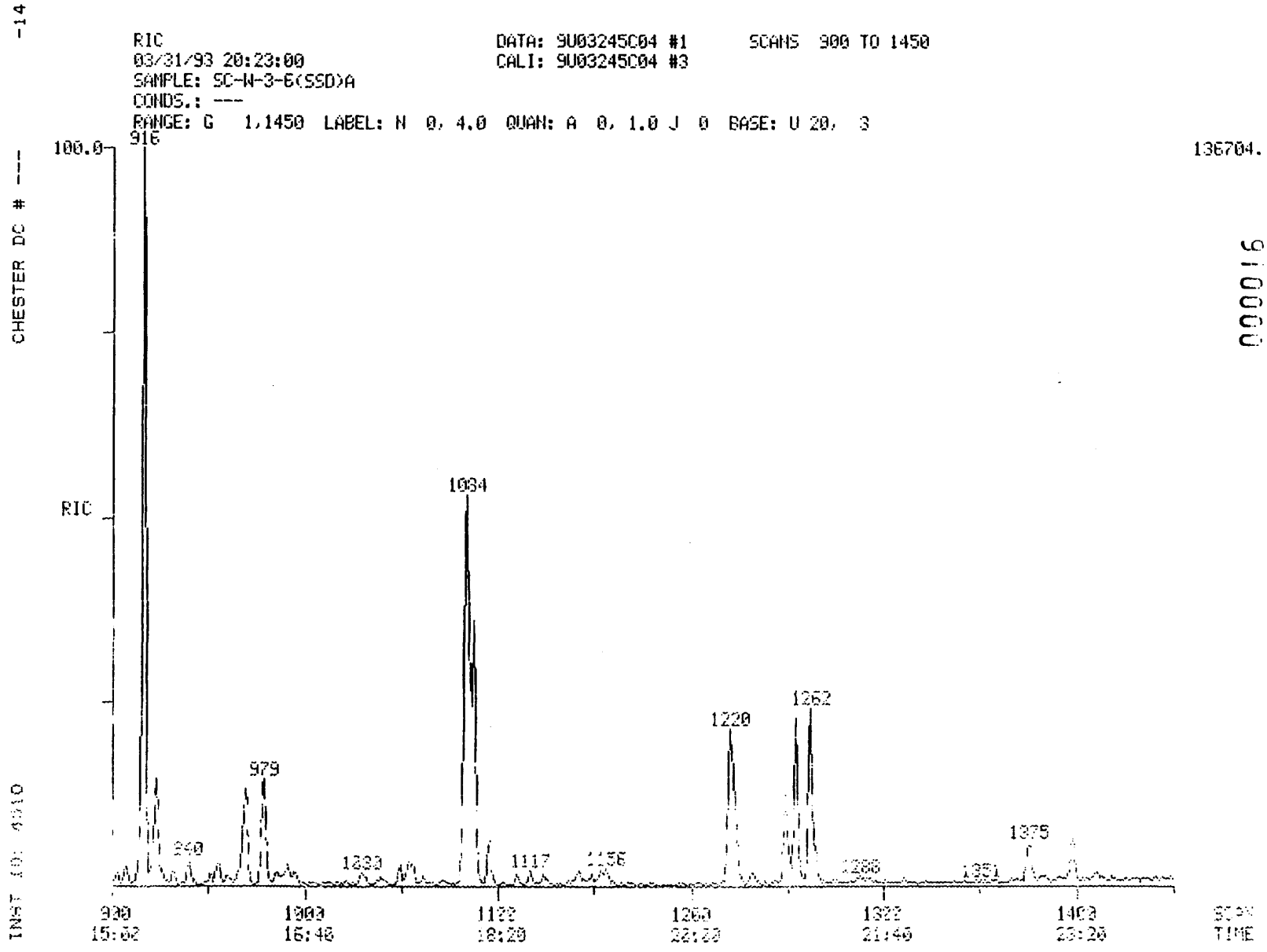
RIC
03/31/93 20:23:00
SAMPLE: SC-W-3-6(SSD)A
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U03245C04 #1 SCANS 85 TO 900
CALI: 9U03245C04 #3



011605

011605



011606

011606

011607

SAMPLE ID. SC-W-3-6(SSD)A

FILENAME 9U03245C04 INST ID. 4510

CLIENT DAMES&MO ANALYST JDD

DATE INJECTED 03/31/93 20:23:00 VERIFIED BY JDD

CALIB STD DATE 03/30/93 CORR. FACTOR 12.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT	RRT	AREA
180	0130	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	240 MG/KG	1.000	1443
315	0140	NAPHTHALENE-D8 ** IS2 **		136	240 MG/KG	1.000	6222
538	0150	ACENAPHTHENE-D10 ** IS3 **		164	240 MG/KG	1.000	4258
729	0160	PHENANTHRENE-D10 ** IS4 **		188	240 MG/KG	1.000	6905
1084	0170	CHRYSENE-D12 ** IS5 **		240	240 MG/KG	1.000	4537
1261	0175	PERYLENE-D12 ** IS6 **		264	240 MG/KG	1.000	2937
317	0450	NAPHTHALENE	39B	128	509 MG/KG	1.006	14295
516	0540	ACENAPHTHYLENE	2B	152	15 MG/KG	0.959	498
542	0550	ACENAPHTHENE	1B	153	264 MG/KG	1.007	4933
609	0590	FLUORENE	32B	166	364 MG/KG	1.132	8678
732	0640	PHENANTHRENE	44B	178	979 MG/KG	1.004	31671
738	0645	ANTHRACENE	3B	178	660 MG/KG	1.012	22382
870	0655	FLUORANTHENE	31B	202	630 MG/KG	1.221	19419
916	0715	PYRENE	45B	202	495 MG/KG	0.845	13638
1003	0730	BENZO(A)ANTHRACENE	5B	228	189 MG/KG	0.999	4348
1007	0740	CHRYSENE	18B	228	190 MG/KG	1.003	4239
1220	0765	BENZO(B)FLUORANTHENE	7B	252	259 MG/KG	0.967	4559
1254	0775	BENZO(A)PYRENE	6B	252	160 MG/KG	0.994	2274
1375	0780	INDENO(1,2,3-CD)PYRENE	37B	276	94 MG/KG	1.090	908
1383	0785	DIBENZO(A,H)ANTHRACENE	19B	278	16 MG/KG	1.097	157
1378	0790	BENZO(GHI)PERYLENE	8B	276	71 MG/KG	1.109	782

*SURROGATES WERE DILUTED OUT

011608

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. ---
CONTRACT LAB: KEYSTONE
CONTRACT NO. ---
INSTRUMENT IDENTIFIER: 4510
CALIBRATION DATE: 03/30/93
STANDARD FILE: FS0331C02
DATE: 03/31/93 TIME: 12:56
MAXIMUM % D FOR CCC IS 20

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.911	1.719	-10.045
C325	BIS(2-CHLOROETHYL)ETHE	1.904	1.422	-25.[illegible]
C330	2-CHLOROPHENOL	1.458	1.325	-9.097
C335	1,3-DICHLOROBENZENE	1.510	1.504	-0.373
C340	1,4-DICHLOROBENZENE	1.602	1.628	1.607
C345	BENZYL ALCOHOL	0.983	0.840	-14.557
C350	1,2-DICHLOROBENZENE	1.495	1.450	-3.062
C355	2-METHYLPHENOL	1.587	1.518	-4.361
C357	2,2'-OXYBIS(1-CHLOROPR	1.913	1.971	3.070
C365	4-METHYLPHENOL	1.690	1.453	-14.046
C370	N-NITROSODIPROPYLAMINE	1.146	1.005	-12.271
C375	HEXACHLOROETHANE	0.629	0.609	-3.249
C410	NITROBENZENE	0.344	0.340	-1.397
C415	ISOPHORONE	0.742	0.701	-5.551
C420	2-NITROPHENOL	0.217	0.176	-19.078
C425	2,4-DIMETHYLPHENOL	0.309	0.293	-5.329
C430	BENZOIC ACID	0.227	0.185	-18.454
C435	BIS(2-CHLOROETHOXY)MET	0.537	0.467	-13.076
C440	2,4-DICHLOROPHENOL	0.280	0.277	-1.089
C445	1,2,4-TRICHLOROBENZENE	0.279	0.298	6.769
C450	NAPHTHALENE	1.067	1.083	1.469
C455	4-CHLOROANILINE	0.391	0.432	10.265
C460	HEXACHLOROBUTADIENE	0.106	0.121	13.904
C465	P-CHLORO-M-CRESOL	0.301	0.286	-4.942
C470	2-METHYLNAPHTHALENE	0.805	0.808	0.429
C510	HEXACHLOROCYCLOPENTADI	0.234	0.244	4.421
C515	2,4,6-TRICHLOROPHENOL	0.304	0.312	2.844
C520	2,4,5-TRICHLOROPHENOL	0.331	0.388	17.007
C525	2-CHLORONAPHTHALENE	1.153	1.271	10.197
C530	2-NITROANILINE	0.330	0.354	7.555
C535	DIMETHYL PHTHALATE	1.226	1.267	3.324
C540	ACENAPHTHYLENE	1.737	1.825	5.045
C545	3-NITROANILINE	0.338	0.355	5.054
C550	ACENAPHTHENE	0.989	1.054	6.[illegible]
C555	2,4-DINITROPHENOL	0.169	0.120	-29.374
C560	4-NITROPHENOL	0.099	0.075	-24.[illegible]
C565	DIBENZOFURAN	1.535	1.749	13.972
C570	2,4-DINITROTOLUENE	0.358	0.365	1.884
C573	2,6-DINITROTOLUENE	0.358	0.427	19.301
C580	DIETHYL PHTHALATE	1.162	1.231	5.951
C585	4-CHLOROPHENYL PHENYL	0.556	0.634	13.977
C590	FLUORENE	1.195	1.344	12.473
C595	4-NITROANILINE	0.326	0.376	15.[illegible]
C610	4,6-DINITRO-2-METHYLPH	0.155	0.115	-25.556
C615	N-NITROSODIPHENYLAMINE	0.709	0.627	-11.[illegible]
C625	4-BROMOPHENYL PHENYL E	0.183	0.164	-10.451
C630	HEXACHLOROBENZENE	0.156	0.172	10.089
C635	PENTACHLOROPHENOL	0.110	0.092	-16.136
C640	PHENANTHRENE	1.200	1.125	-6.234
C645	ANTHRACENE	1.222	1.178	-3.579
C650	DI-N-BUTYL PHTHALATE	1.554	1.405	-9.567
C655	FLUORANTHENE	1.084	1.071	-1.208

011608

011609

C715	PYRENE	1.694	1.458	-13.914
C720	BUTYL BENZYL PHTHALATE	0.920	0.705	-23.388
C725	3,3'-DICHLOROBENZIDINE	0.383	0.397	3.503
C730	BENZO(A)ANTHRACENE	1.386	1.218	-12.060
C735	BIS(2-ETHYLHEXYL)PHTHA	1.272	1.006	-20.893
C740	CHRYSENE	1.113	1.181	6.083
C760	DI-N-OCTYL PHTHALATE	2.485	2.018	-18.792
C765	BENZO(B)FLUORANTHENE	1.563	1.436	-8.131
C770	BENZO(K)FLUORANTHENE	1.250	1.468	17.440
C775	BENZO(A)PYRENE	1.124	1.161	3.283
C780	INDENO(1,2,3-CD)PYRENE	0.790	0.787	-0.323
C785	DIBENZO(A,H)ANTHRACENE	0.808	0.799	-1.139
C790	BENZO(GHI)PERYLENE	0.831	0.895	7.735
C310	N-NITROSODIMETHYLAMINE	1.075	1.054	-1.911
C620	1,2-DIPHENYL-HYDRAZINE	1.095	1.082	-1.185
CS70	2-CHLOROPHENOL-D4 ** S	1.828	1.892	3.481
CS75	1,2-DICHLOROBENZENE-D4	0.866	0.866	-0.036
C647	CARBAZOLE	1.197	1.183	-1.192
CS30	2-FLUOROPHENOL ** SU1	1.588	1.355	-14.677
CS45	PHENOL-D5 ** SU2 **	1.977	1.700	[illegible]
CS55	2,4,6-TRIBROMOPHENOL	0.097	0.122	[illegible]
CS20	NITROBENZENE-D5 ** SU3	0.342	0.333	-2.442
CS25	2-FLUOROBIPHENYL ** SU	1.162	1.304	12.199
CS30	TERPHENYL-D14 ** SU6	1.230	1.120	-8.931

BENZENETHIOL
METHYL CHRYSENE
QUINOLINE
C720 1-METHYLNAPHTHALENE
7,12-DIMETHYLBENZ(A)ANTHRACE
DIBENZ(A,H)ACRIDINE
3+4-METHYLPHENOL
INDENE
A950 PYRIDINE
A953 2,6-DICHLOROPHENOL
A987 2,5-DICHLOROPHENOL
A988 3,4-DICHLOROPHENOL
A989 2,3-DICHLOROPHENOL
A990 3,5-DICHLOROPHENOL
A991 1,3,5-TRICHLOROBENZENE
A992 1,2,3-TRICHLOROBENZENE

011609

CHESTER DC # ----17

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4510

LAB ID. FS0331C02

CLIENT CHESTER ANALYST JDD

DATE INJECTED 03/31/93 12:56:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	179	40	12291	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	314	40	48499	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	537	40	26200	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	728	40	44220	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1083	40	34718	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1260	40	30301	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	97	50	20817	0.542	1.355
CS45	PHENOL-D5 ** SU2 **	99	176	50	26122	0.983	1.700
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	645	50	3986	1.201	0.122
CS20	NITROBENZENE-D5 ** SU3 **	82	238	50	20217	0.758	0.333
CS25	2-FLUOROBIPHENYL ** SU4 **	172	462	50	42703	0.860	1.304
CS30	TERPHENYL-D14 ** SU6 **	244	959	50	48623	0.886	1.120
C315	PHENOL	94	177	50	26404	0.989	1.719
C325	BIS(2-CHLOROETHYL)ETHER	93	167	50	21846	0.933	1.422
C330	2-CHLOROPHENOL	128	169	50	20363	0.944	1.325
C335	1,3-DICHLOROBENZENE	146	175	50	23111	0.978	1.504
C340	1,4-DICHLOROBENZENE	146	181	50	25013	1.011	1.628
C345	BENZYL ALCOHOL	108	205	50	12906	1.145	0.840
C350	1,2-DICHLOROBENZENE	146	197	50	22271	1.101	1.450
C355	2-METHYLPHENOL	108	231	50	23324	1.291	1.518
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	220	50	30288	1.229	1.971
C365	4-METHYLPHENOL	108	249	50	22321	1.391	1.453
C370	N-NITROSODIPROPYLAMINE	70	234	50	15448	1.307	1.005
C375	HEXACHLOROETHANE	117	227	50	9351	1.268	0.609
C410	NITROBENZENE	77	240	50	20591	0.764	0.340
C415	ISOPHORONE	82	269	50	42473	0.857	0.701
C420	2-NITROPHENOL	139	276	50	10653	0.879	0.176
C425	2,4-DIMETHYLPHENOL	107	304	50	17761	0.968	0.293
C430	BENZOIC ACID	122	331	50	11214	1.054	0.185
C435	BIS(2-CHLOROETHOXY)METHANE	93	307	50	28303	0.978	0.467
C440	2,4-DICHLOROPHENOL	162	315	50	16784	1.003	0.277
C445	1,2,4-TRICHLOROBENZENE	180	312	50	18038	0.994	0.298
C450	NAPHTHALENE	128	316	50	65648	1.006	1.083
C455	4-CHLOROANILINE	127	337	50	26168	1.073	0.432
C460	HEXACHLOROBUTADIENE	225	347	50	7356	1.105	0.121
C465	P-CHLORO-M-CRESOL	107	422	50	17359	1.344	0.286
C470	2-METHYLNAPHTHALENE	142	404	50	48987	1.287	0.808
C510	HEXACHLOROCYCLOPENTADIENE	237	437	50	7995	0.814	0.244
C515	2,4,6-TRICHLOROPHENOL	196	455	50	10228	0.847	0.312
C520	2,4,5-TRICHLOROPHENOL	196	467	50	12700	0.870	0.388
C525	2-CHLORONAPHTHALENE	162	463	50	41627	0.862	1.271
C530	2-NITROANILINE	65	493	50	11608	0.918	0.354
C535	DIMETHYL PHTHALATE	163	530	50	41489	0.987	1.267
C540	ACENAPHTHYLENE	152	516	50	59768	0.961	1.825
C545	3-NITROANILINE	138	549	50	11625	1.022	0.355
C550	ACENAPHTHENE	153	541	50	34528	1.007	1.054

SV STANDARD REPORT PAGE 2

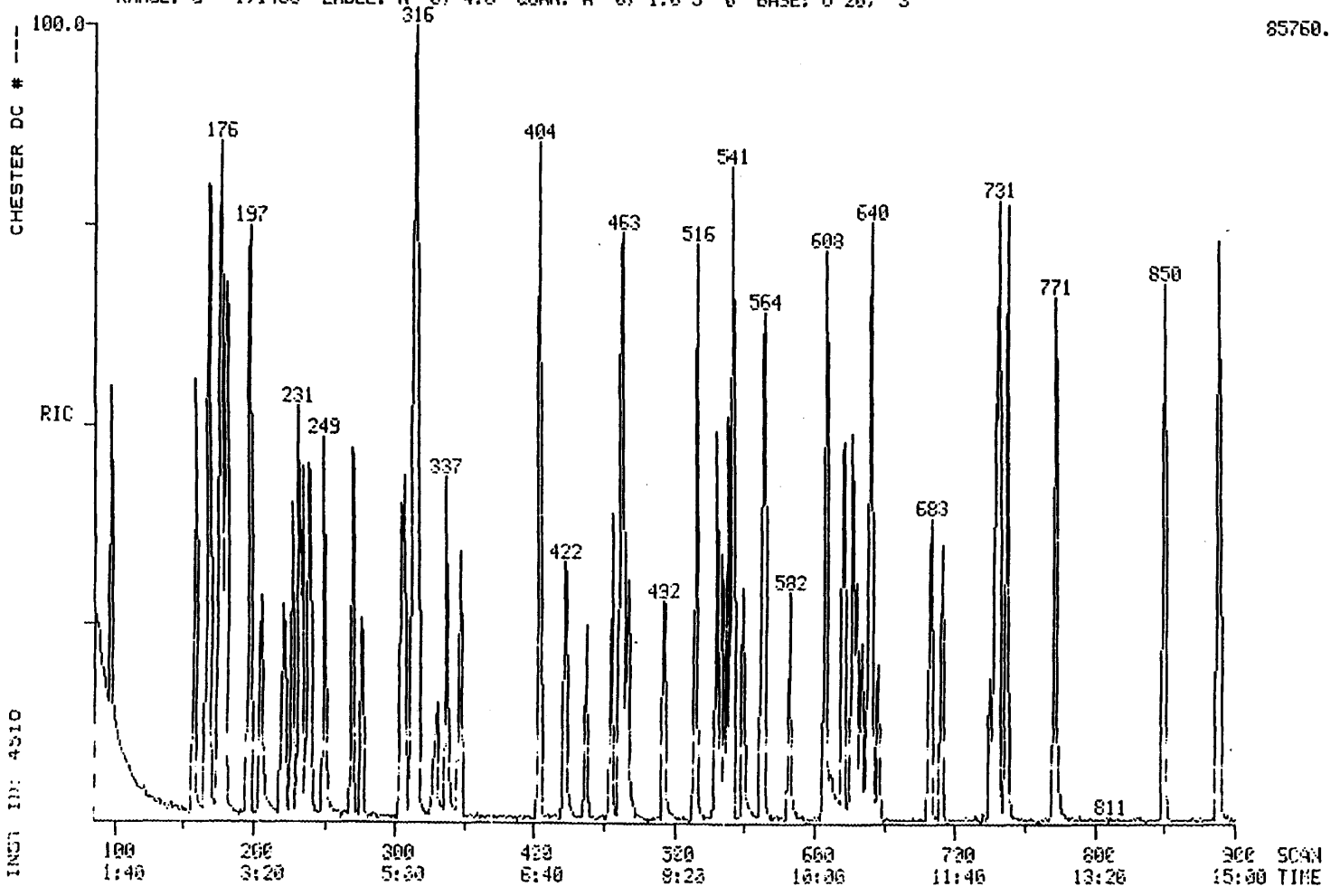
DATAFILE FS0331C02

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	184	562	50	3914	1.047	0.120
C560	4-NITROPHENOL	109	613	50	2446	1.142	0.075
C565	DIBENZOFURAN	168	563	50	57295	1.048	1.749
C570	2,4-DINITROTOLUENE	165	582	50	11953	1.084	0.365
C543	2,6-DINITROTOLUENE	165	533	50	13981	0.993	0.427
C580	DIETHYL PHTHALATE	149	627	50	40327	1.168	1.231
C585	4-CHLOROPHENYL PHENYL ETHER	204	620	50	20763	1.155	0.634
C590	FLUORENE	166	608	50	44007	1.132	1.344
C595	4-NITROANILINE	138	630	50	12301	1.173	0.376
C610	4,6-DINITRO-2-METHYLPHENOL	198	634	50	6370	0.871	0.115
C615	N-NITROSODIPHENYLAMINE	169	641	50	34637	0.880	0.627
C625	4-BROMOPHENYL PHENYL ETHER	248	682	50	9038	0.937	0.164
C630	HEXACHLOROBENZENE	284	691	50	9484	0.949	0.172
C635	PENTACHLOROPHENOL	266	725	50	5075	0.996	0.092
C640	PHENANTHRENE	178	731	50	62169	1.004	1.125
C645	ANTHRACENE	178	737	50	65115	1.012	1.178
C650	DI-N-BUTYL PHTHALATE	149	850	50	77685	1.168	1.405
C655	FLUORANTHENE	202	889	50	59201	1.221	1.071
C715	PYRENE	202	915	50	63278	0.845	1.458
C720	BUTYL BENZYL PHTHALATE	149	1046	50	30575	0.966	0.705
C725	3,3'-DICHLOROBENZIDINE	252	1097	50	17222	1.013	0.397
C730	BENZO(A)ANTHRACENE	228	1082	50	52879	0.999	1.218
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1141	50	43661	1.054	1.006
C740	CHRYSENE	228	1086	50	51263	1.003	1.181
C760	DI-N-OCTYL PHTHALATE	149	1221	50	76426	0.969	2.018
C765	BENZO(B)FLUORANTHENE	252	1218	50	54382	0.967	1.436
C770	BENZO(K)FLUORANTHENE	252	1221	50	55605	0.969	1.468
C775	BENZO(A)PYRENE	252	1253	50	43978	0.994	1.161
C780	INDENO(1,2,3-CD)PYRENE	276	1374	50	29822	1.090	0.787
C785	DIBENZO(A,H)ANTHRACENE	278	1380	50	30273	1.095	0.799
C790	BENZO(GHI)PERYLENE	276	1396	50	33895	1.108	0.895
C620	1,2-DIPHENYL-HYDRAZINE						

-17

RIC
03/31/93 12:56:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0331C02 #1 SCANS 85 TO 900
CALI: FS0331C02 #3



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011612

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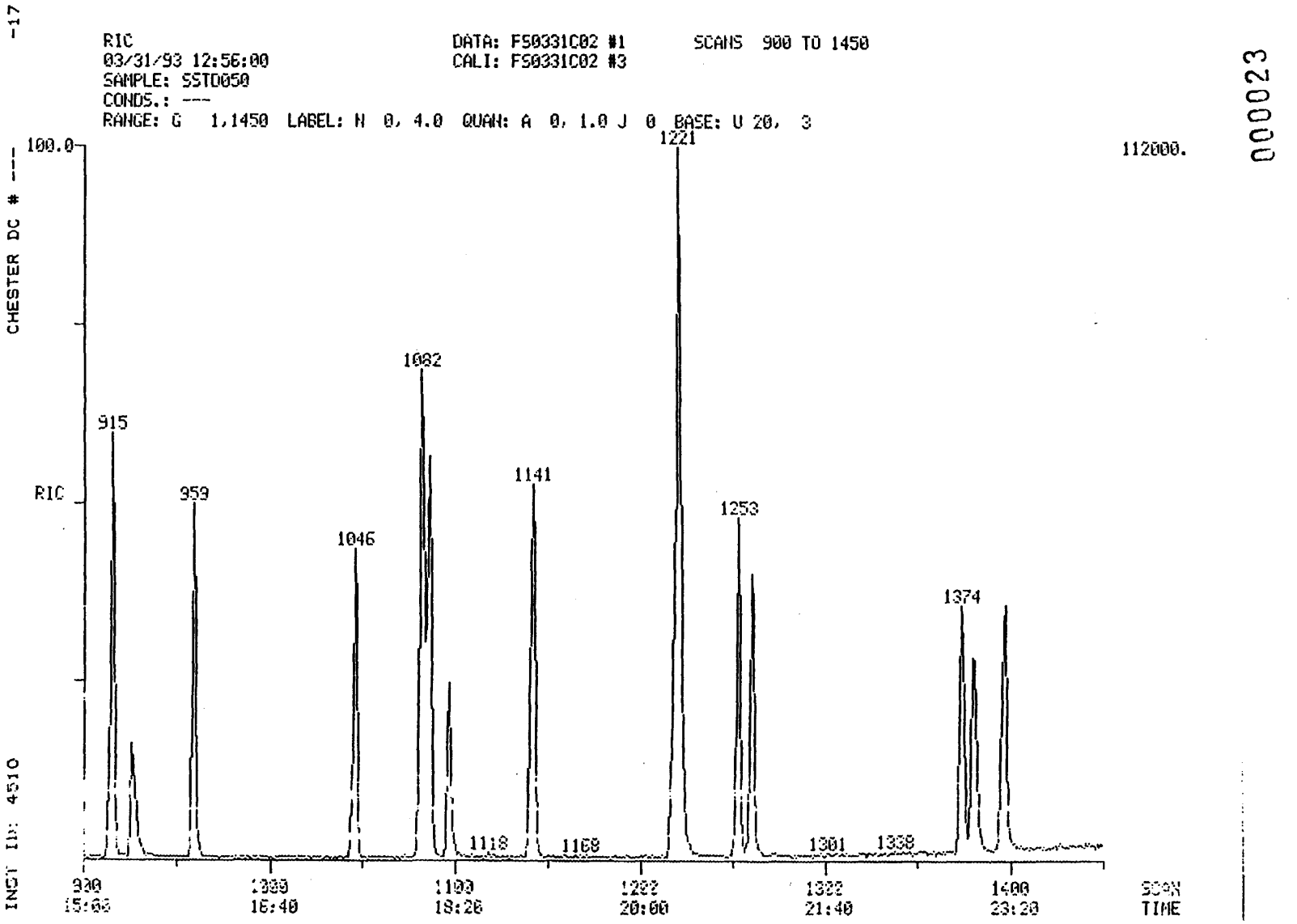

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011613

011613

011614

Quantitation Report File: FS0331C02

Data: FS0331C02.TI
03/31/93 12:56:00
Sample: SSFD050
Conds.: ---
Formula: 03/30/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	C140	NAPHTHALENE-D8 ** IS2 **	
3	C150	ACENAPHTHENE-D10 ** IS3 **	
4	C160	PHENANTHRENE-D10 ** IS4 **	
5	C170	CHRYSENE-D12 ** IS5 **	
6	C175	PERYLENE-D12 ** IS6 **	
7	C550	2-FLUOROPHENOL ** SU1 **	
8	C545	PHENOL-D5 ** SU2 **	
9	C555	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	C520	NITROBENZENE-D5 ** SU3 **	
11	C525	2-FLUOROBIPHENYL ** SU4 **	
12	C530	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

011614

011615

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	179	2:59	1	1.000	A BB	12291.	40.000 UG/L	0.99
2	136	314	5:14	2	1.000	A BB	48499.	40.000 UG/L	0.99
3	164	537	8:57	3	1.000	A VB	26200.	40.000 UG/L	0.99
4	188	728	12:08	4	1.000	A BB	44220.	40.000 UG/L	0.99
5	240	1083	18:03	5	1.000	A BB	34718.	40.000 UG/L	0.99
6	264	1260	21:00	6	1.000	A BB	30301.	40.000 UG/L	0.99
7	112	97	1:37	1	0.542	A BB	20817.	50.000 UG/L	1.24
8	99	176	2:56	1	0.983	A BB	26122.	50.000 UG/L	1.24
9	330	645	10:45	3	1.201	A BB	3986.	50.000 UG/L	1.24
10	82	238	3:58	2	0.758	A BB	20217.	50.000 UG/L	1.24
11	172	462	7:42	3	0.860	A BB	42703.	50.000 UG/L	1.24
12	244	959	15:59	5	0.886	A BB	48623.	50.000 UG/L	1.24
13	94	177	2:57	1	0.989	A BV	26404.	50.000 UG/L	1.24
14	93	167	2:47	1	0.933	A VB	21846.	50.000 UG/L	1.24
15	128	169	2:49	1	0.944	A BV	20363.	50.000 UG/L	1.24
16	146	175	2:55	1	0.978	A BV	23111.	50.000 UG/L	1.24
17	146	181	3:01	1	1.011	A VB	25013.	50.000 UG/L	1.24
18	108	205	3:25	1	1.145	A BV	12906.	50.000 UG/L	1.24
19	146	197	3:17	1	1.101	A BB	22271.	50.000 UG/L	1.24
20	108	231	3:51	1	1.291	A BB	23324.	50.000 UG/L	1.24
21	45	220	3:40	1	1.229	A BB	30288.	50.000 UG/L	1.24
22	108	249	4:09	1	1.391	A BB	22321.	50.000 UG/L	1.24
23	70	234	3:54	1	1.307	M XX	15448.	50.000 UG/L	1.24
24	117	227	3:47	1	1.268	A BB	9351.	50.000 UG/L	1.24
25	77	240	4:00	2	0.764	A BV	20591.	50.000 UG/L	1.24
26	82	269	4:29	2	0.857	A BB	42473.	50.000 UG/L	1.24
27	139	276	4:36	2	0.879	A BB	10653.	50.000 UG/L	1.24
28	107	304	5:04	2	0.968	A BV	17761.	50.000 UG/L	1.24
29	122	331	5:31	2	1.054	M XX	11214.	50.000 UG/L	1.24
30	93	307	5:07	2	0.978	A BB	28303.	50.000 UG/L	1.24
31	162	315	5:15	2	1.003	A BB	16784.	50.000 UG/L	1.24
32	180	312	5:12	2	0.994	A BB	18038.	50.000 UG/L	1.24
33	128	316	5:16	2	1.006	A BB	65648.	50.000 UG/L	1.24
34	127	337	5:37	2	1.073	A BB	26168.	50.000 UG/L	1.24
35	225	347	5:47	2	1.105	A BB	7356.	50.000 UG/L	1.24
36	107	422	7:02	2	1.344	A BB	17359.	50.000 UG/L	1.24
37	142	404	6:44	2	1.287	A BB	48987.	50.000 UG/L	1.24
38	237	437	7:17	3	0.814	A BB	7995.	50.000 UG/L	1.24
39	196	455	7:35	3	0.847	A BB	10228.	50.000 UG/L	1.24
40	196	467	7:47	3	0.870	A BB	12700.	50.000 UG/L	1.24
41	162	463	7:43	3	0.862	A BV	41627.	50.000 UG/L	1.24
42	65	493	8:13	3	0.918	A BB	11608.	50.000 UG/L	1.24
43	163	530	8:50	3	0.987	A BV	41489.	50.000 UG/L	1.24
44	152	516	8:36	3	0.961	A BB	59768.	50.000 UG/L	1.24
45	138	549	9:09	3	1.022	A BB	11625.	50.000 UG/L	1.24
46	153	541	9:01	3	1.007	A BB	34528.	50.000 UG/L	1.24
47	184	562	9:22	3	1.047	A BB	3914.	50.000 UG/L	1.24
48	109	613	10:13	3	1.142	A BB	2446.	50.000 UG/L	1.24
49	168	563	9:23	3	1.048	A BB	57295.	50.000 UG/L	1.24
50	165	582	9:42	3	1.084	A BB	11953.	50.000 UG/L	1.24

011616

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	2:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:14	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	8:57	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	18:03	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	21:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:37	1.00	0.542	1.00	50.00	50.00	1.355	1.355	1.00
8	2:56	1.00	0.983	1.00	50.00	50.00	1.700	1.700	1.00
9	10:45	1.00	1.201	1.00	50.00	50.00	0.122	0.122	1.00
10	3:58	1.00	0.758	1.00	50.00	50.00	0.333	0.333	1.00
11	7:42	1.00	0.860	1.00	50.00	50.00	1.304	1.304	1.00
12	15:59	1.00	0.886	1.00	50.00	50.00	1.120	1.120	1.00
13	2:57	1.00	0.989	1.00	50.00	50.00	1.719	1.719	1.00
14	2:47	1.00	0.933	1.00	50.00	50.00	1.422	1.422	1.00
15	2:49	1.00	0.944	1.00	50.00	50.00	1.325	1.325	1.00
16	2:55	1.00	0.978	1.00	50.00	50.00	1.504	1.504	1.00
17	3:01	1.00	1.011	1.00	50.00	50.00	1.628	1.628	1.00
18	3:25	1.00	1.145	1.00	50.00	50.00	0.840	0.840	1.00
19	3:17	1.00	1.101	1.00	50.00	50.00	1.450	1.450	1.00
20	3:51	1.00	1.291	1.00	50.00	50.00	1.518	1.518	1.00
21	3:40	1.00	1.229	1.00	50.00	50.00	1.971	1.971	1.00
22	4:09	1.00	1.391	1.00	50.00	50.00	1.453	1.453	1.00
23	3:54	1.00	1.307	1.00	50.00	50.00	1.005	1.005	1.00
24	3:47	1.00	1.268	1.00	50.00	50.00	0.609	0.609	1.00
25	4:00	1.00	0.764	1.00	50.00	50.00	0.340	0.340	1.00
26	4:29	1.00	0.857	1.00	50.00	50.00	0.701	0.701	1.00
27	4:36	1.00	0.879	1.00	50.00	50.00	0.176	0.176	1.00
28	5:04	1.00	0.968	1.00	50.00	50.00	0.293	0.293	1.00
29	5:31	1.00	1.054	1.00	50.00	50.00	0.185	0.185	1.00
30	5:07	1.00	0.978	1.00	50.00	50.00	0.467	0.467	1.00
31	5:15	1.00	1.003	1.00	50.00	50.00	0.277	0.277	1.00
32	5:12	1.00	0.994	1.00	50.00	50.00	0.298	0.298	1.00
33	5:16	1.00	1.006	1.00	50.00	50.00	1.083	1.083	1.00
34	5:37	1.00	1.073	1.00	50.00	50.00	0.432	0.432	1.00
35	5:47	1.00	1.105	1.00	50.00	50.00	0.121	0.121	1.00
36	7:02	1.00	1.344	1.00	50.00	50.00	0.286	0.286	1.00
37	6:44	1.00	1.287	1.00	50.00	50.00	0.808	0.808	1.00
38	7:17	1.00	0.814	1.00	50.00	50.00	0.244	0.244	1.00
39	7:35	1.00	0.847	1.00	50.00	50.00	0.312	0.312	1.00
40	7:47	1.00	0.870	1.00	50.00	50.00	0.388	0.388	1.00
41	7:43	1.00	0.862	1.00	50.00	50.00	1.271	1.271	1.00
42	8:13	1.00	0.918	1.00	50.00	50.00	0.354	0.354	1.00
43	8:50	1.00	0.987	1.00	50.00	50.00	1.267	1.267	1.00
44	8:36	1.00	0.961	1.00	50.00	50.00	1.825	1.825	1.00
45	9:09	1.00	1.022	1.00	50.00	50.00	0.355	0.355	1.00
46	9:01	1.00	1.007	1.00	50.00	50.00	1.054	1.054	1.00
47	9:22	1.00	1.047	1.00	50.00	50.00	0.120	0.120	1.00
48	10:13	1.00	1.142	1.00	50.00	50.00	0.075	0.075	1.00
49	9:23	1.00	1.048	1.00	50.00	50.00	1.749	1.749	1.00
50	9:42	1.00	1.084	1.00	50.00	50.00	0.365	0.365	1.00

011617

Quantitation Report File: FS0331C02

Data: FS0331C02.TI
03/31/93 18:56:00
Sample: SSTD050
Conds.: ---
Formula: 03/30/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	C570	2-CHLOROPHENOL-D4 ** SU7 **	
81	C575	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	533	8:53	3	0.993	A BB	13981.	50.000 UG/L	1.24
52	149	627	10:27	3	1.168	A BB	40327.	50.000 UG/L	1.24
53	204	620	10:20	3	1.155	A BB	20763.	50.000 UG/L	1.24
54	166	608	10:08	3	1.132	A BB	44007.	50.000 UG/L	1.24
55	138	630	10:30	3	1.173	A BB	12301.	50.000 UG/L	1.24
56	198	634	10:34	4	0.871	A BB	6370.	50.000 UG/L	1.24
57	169	641	10:41	4	0.880	A BB	34637.	50.000 UG/L	1.24
58	248	682	11:22	4	0.937	A BB	9038.	50.000 UG/L	1.24
59	284	691	11:31	4	0.949	A BB	9484.	50.000 UG/L	1.24
60	266	725	12:05	4	0.996	A BB	5075.	50.000 UG/L	1.24
61	178	731	12:11	4	1.004	A BV	62169.	50.000 UG/L	1.24

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
62	178	737	12:17	4	1.012	A VB	65115.	50.000 UG/L	1.24
63	149	850	14:10	4	1.168	A BB	77685.	50.000 UG/L	1.24
64	202	889	14:49	4	1.221	A BB	59201.	50.000 UG/L	1.24
65	202	915	15:15	5	0.845	A BB	63278.	50.000 UG/L	1.24
66	149	1046	17:26	5	0.966	A BB	30575.	50.000 UG/L	1.24
67	252	1097	18:17	5	1.013	A BB	17222.	50.000 UG/L	1.24
68	228	1082	18:02	5	0.999	A BV	52879.	50.000 UG/L	1.24
69	149	1141	19:01	5	1.054	A BB	43661.	50.000 UG/L	1.24
70	228	1086	18:06	5	1.003	A VV	51263.	50.000 UG/L	1.24
71	149	1221	20:21	6	0.969	A BB	76426.	50.000 UG/L	1.24
72	252	1218	20:18	6	0.967	M XX	54382.	50.000 UG/L	1.24
73	252	1221	20:21	6	0.969	M XX	55605.	50.000 UG/L	1.24
74	252	1253	20:53	6	0.994	A BB	43978.	50.000 UG/L	1.24
75	276	1374	22:54	6	1.090	A BV	29822.	50.000 UG/L	1.24
76	278	1380	23:00	6	1.095	A BB	30273.	50.000 UG/L	1.24
77	276	1396	23:16	6	1.108	A BB	33895.	50.000 UG/L	1.24
78	74	38	0:38	1	0.212	A VV	16193.	50.000 UG/L	1.24
79	184	926	15:26	5	0.855	A BB	29295.	50.000 UG/L	1.24
80	132	167	2:47	1	0.933	M XX	29061.	50.000 UG/L	1.24
81	152	196	3:16	1	1.095	M XX	13298.	50.000 UG/L	1.24
82	167	771	12:51	4	1.059	M XX	65385.	50.000 UG/L	1.24

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	8:53	1.00	0.993	1.00	50.00	50.00	0.427	0.427	1.00
52	10:27	1.00	1.168	1.00	50.00	50.00	1.231	1.231	1.00
53	10:20	1.00	1.155	1.00	50.00	50.00	0.634	0.634	1.00
54	10:08	1.00	1.132	1.00	50.00	50.00	1.344	1.344	1.00
55	10:30	1.00	1.173	1.00	50.00	50.00	0.376	0.376	1.00
56	10:34	1.00	0.871	1.00	50.00	50.00	0.115	0.115	1.00
57	10:41	1.00	0.880	1.00	50.00	50.00	0.627	0.627	1.00
58	11:22	1.00	0.937	1.00	50.00	50.00	0.164	0.164	1.00
59	11:31	1.00	0.949	1.00	50.00	50.00	0.172	0.172	1.00
60	12:05	1.00	0.996	1.00	50.00	50.00	0.092	0.092	1.00
61	12:11	1.00	1.004	1.00	50.00	50.00	1.125	1.125	1.00
62	12:17	1.00	1.012	1.00	50.00	50.00	1.178	1.178	1.00
63	14:10	1.00	1.168	1.00	50.00	50.00	1.405	1.405	1.00
64	14:49	1.00	1.221	1.00	50.00	50.00	1.071	1.071	1.00
65	15:15	1.00	0.845	1.00	50.00	50.00	1.458	1.458	1.00
66	17:26	1.00	0.966	1.00	50.00	50.00	0.705	0.705	1.00
67	18:17	1.00	1.013	1.00	50.00	50.00	0.397	0.397	1.00
68	18:02	1.00	0.999	1.00	50.00	50.00	1.218	1.218	1.00
69	19:01	1.00	1.054	1.00	50.00	50.00	1.006	1.006	1.00
70	18:06	1.00	1.003	1.00	50.00	50.00	1.181	1.181	1.00
71	20:21	1.00	0.969	1.00	50.00	50.00	2.018	2.018	1.00
72	20:18	1.00	0.967	1.00	50.00	50.00	1.436	1.436	1.00
73	20:21	1.00	0.969	1.00	50.00	50.00	1.468	1.468	1.00
74	20:53	1.00	0.994	1.00	50.00	50.00	1.161	1.161	1.00
75	22:54	1.00	1.090	1.00	50.00	50.00	0.787	0.787	1.00
76	23:00	1.00	1.095	1.00	50.00	50.00	0.799	0.799	1.00
77	23:16	1.00	1.108	1.00	50.00	50.00	0.895	0.895	1.00
78	0:38	1.00	0.212	1.00	50.00	50.00	1.054	1.054	1.00
79	15:26	1.00	0.855	1.00	50.00	50.00	0.675	0.675	1.00
80	2:47	1.00	0.933	1.00	50.00	50.00	1.892	1.892	1.00
81	3:16	1.00	1.095	1.00	50.00	50.00	0.866	0.866	1.00
82	12:51	1.00	1.059	1.00	50.00	50.00	1.183	1.183	1.00

011619

CHESTER DC # --- - 8

INST ID: 4010

SAMPLE NUMBER: SBLK

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET

CASE NO.: ---

LAB SAMPLE ID NO.: 93---

QC REPORT NO.: 03/30/93

SAMPLE MATRIX: SOIL

CONTRACT NO.: ---

DATA RELEASE AUTHORIZED BY: .....

DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW

DATAFILE: 9B03245C01

DATE EXTRACTED: 3/29/93

DATE ANALYZED: 03/31/93

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	330 U	
C540	ACENAPHTHYLENE	330 U	
C550	ACENAPHTHENE	330 U	
C590	FLUORENE	330 U	
C640	PHENANTHRENE	330 U	
C645	ANTHRACENE	330 U	
C655	FLUORANTHENE	330 U	
C715	PYRENE	330 U	
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	
C790	BENZO(GHI)PERYLENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT

J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011620

INST ID: 4010

CHESTER DC # --- - 8

SAMPLE NUMBER: SBLK

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: RB

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

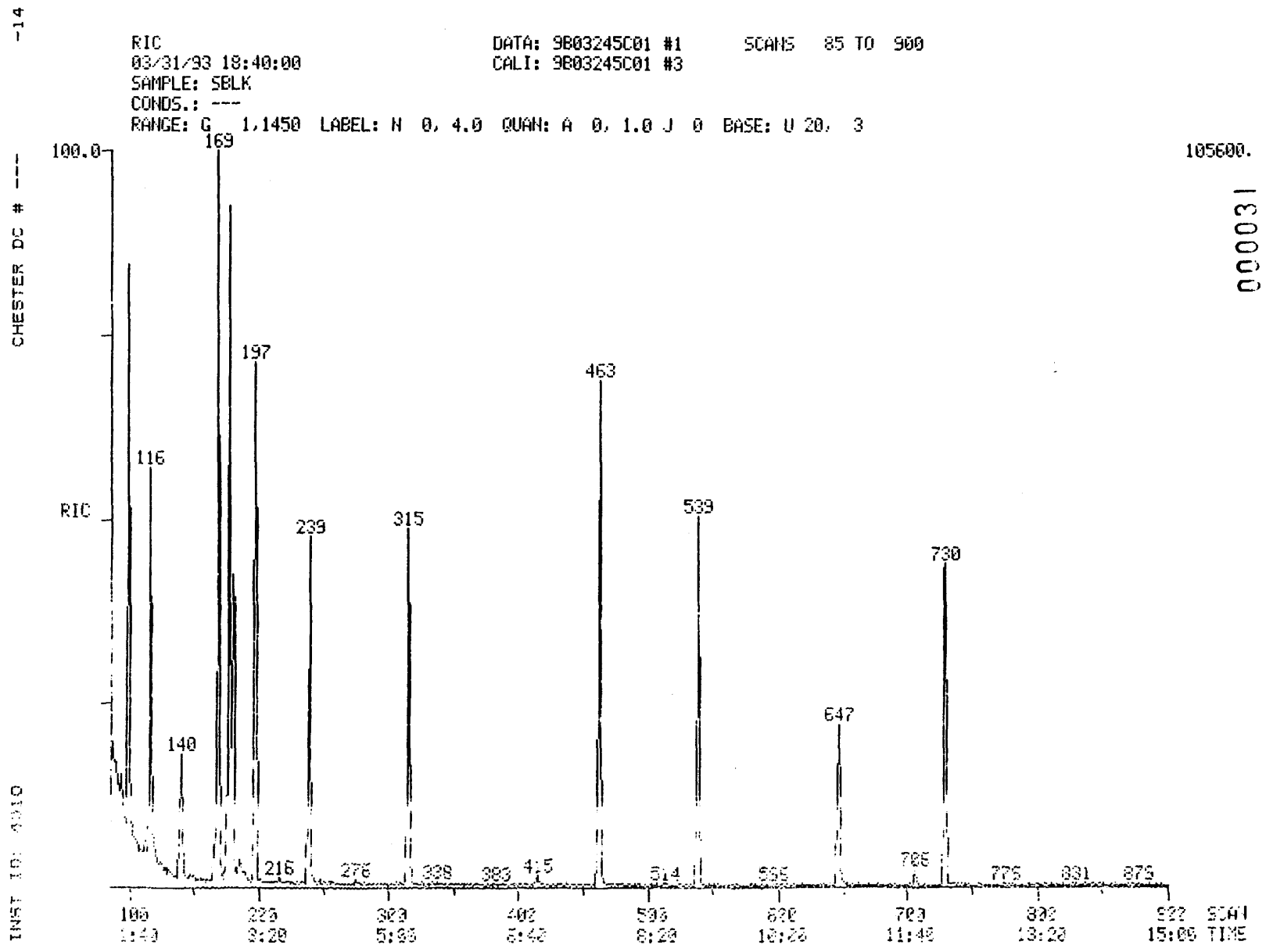
SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 3/29/93
DATE ANALYZED: 03/31/93

DATAFILE: 9B03245C01

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C763	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



000031

011621

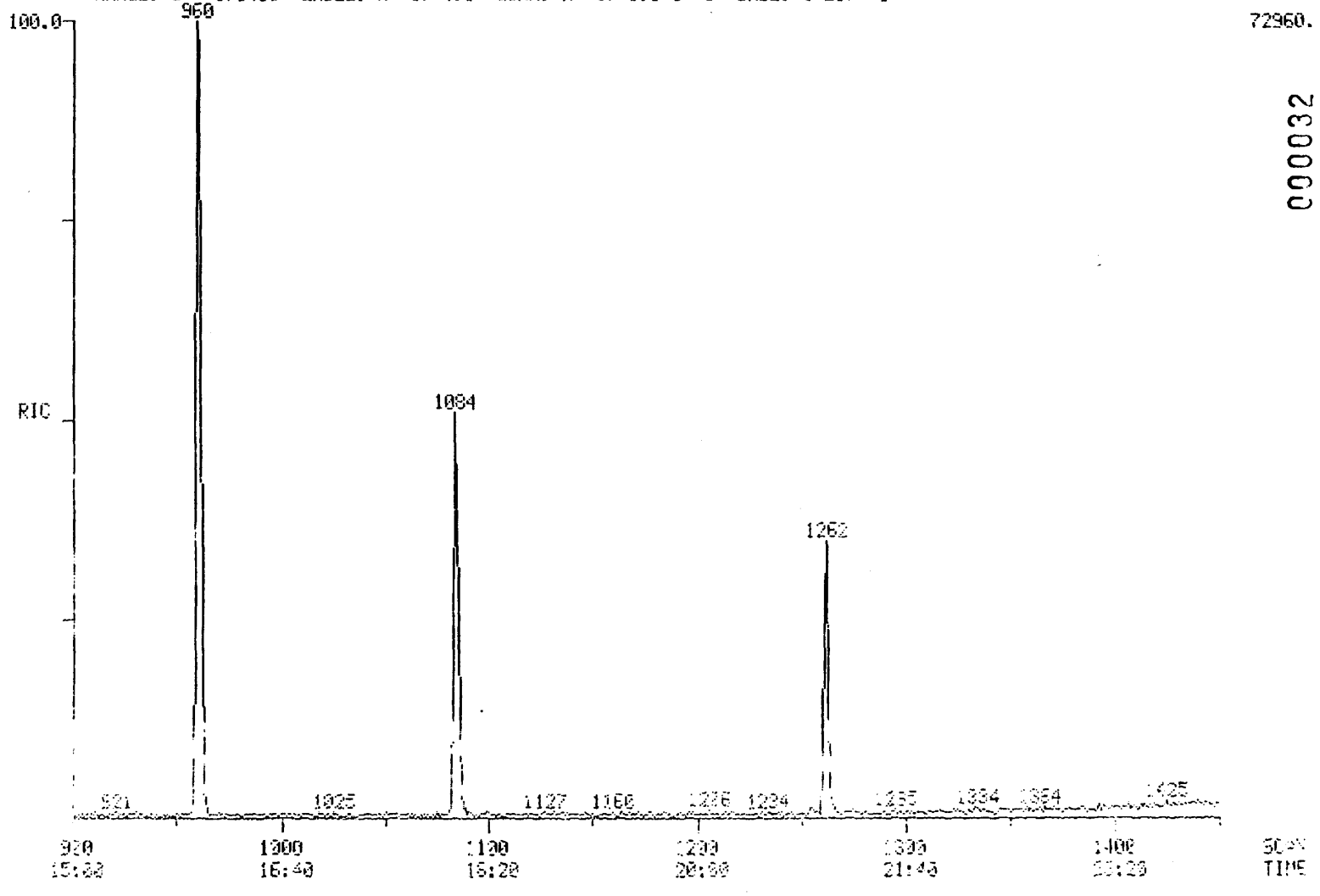
011621

-14

RIC
03/31/93 18:40:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B03245C01 #1 SCANS 900 TO 1450
CALI: 9B03245C01 #3

CHESTER DC # ---



INST ID: 4510

000032

011622

011622

011623

CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID.	SBLK		
FILENAME	9B03245C01	INST ID.	4510
CLIENT	CHESTER	ANALYST	JDD
DATE INJECTED	03/31/93 18:40:00	VERIFIED BY	JDD
CALIB STD DATE	03/30/93	CORR. FACTOR	33.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
180	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	152	660 UG/KG	1.000	1404
315	CI40	NAPHTHALENE-D8 ** IS2 **	136	660 UG/KG	1.000	5302
539	CI50	ACENAPHTHENE-D10 ** IS3 **	164	660 UG/KG	1.000	3215
729	CI60	PHENANTHRENE-D10 ** IS4 **	188	660 UG/KG	1.000	4924
1084	CI70	CHRYSENE-D12 ** IS5 **	240	660 UG/KG	1.000	3293
1262	CI75	PERYLENE-D12 ** IS6 **	264	660 UG/KG	1.000	2300
93	CS30	2-FLUOROPHENOL ** SU1 **	112	75 %	0.544	5473
177	CS45	PHENOL-D5 ** SU2 **	99	86 %	0.983	7917
647	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	330	37 %	1.200	543
169	CS70	2-CHLOROPHENOL-D4 ** SU7 **	132	59 %	0.939	5903
197	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	152	73 %	1.094	2211
239	CS20	NITROBENZENE-D5 ** SU3 **	82	68 %	0.759	3024
473	CS25	2-FLUOROBIPHENYL ** SU4 **	172	59 %	0.859	6161
960	CS30	TERPHENYL-D14 ** SU6 **	244	81 %	0.886	7447

011624

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	03/31/93	Sens Time:	10:48:00
Lab ID:	FS0331C01	Cali Date:	03/30/93	Analyst:	JDD

Data release authorized by: Juanita D. Drummond

M/E	Ion Abundance Criteria	Spec # 234	
51	30 to 60% of mass 198	38.69•	
68	less than 2% of mass 69	0.00•	(0.00) 1
69	mass 69 relative abundance	39.65•	
70	less than 2% of mass 69	0.00•	(0.00) 1
127	40 TO 60% of mass 198	47.34•	
197	less than 1% of mass 198	0.31•	
198	base peak, 100% relative abundance	100.00•	
199	5 TO 9% of mass 198	7.37•	
275	10 TO 30% of mass 198	17.67•	
365	greater than 1% of mass 198	1.37•	
441	less than mass 443	2.91•	
442	greater than 40% of mass 198	40.38•	
443	17 TO 23% of mass 442	7.72•	(19.11• 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

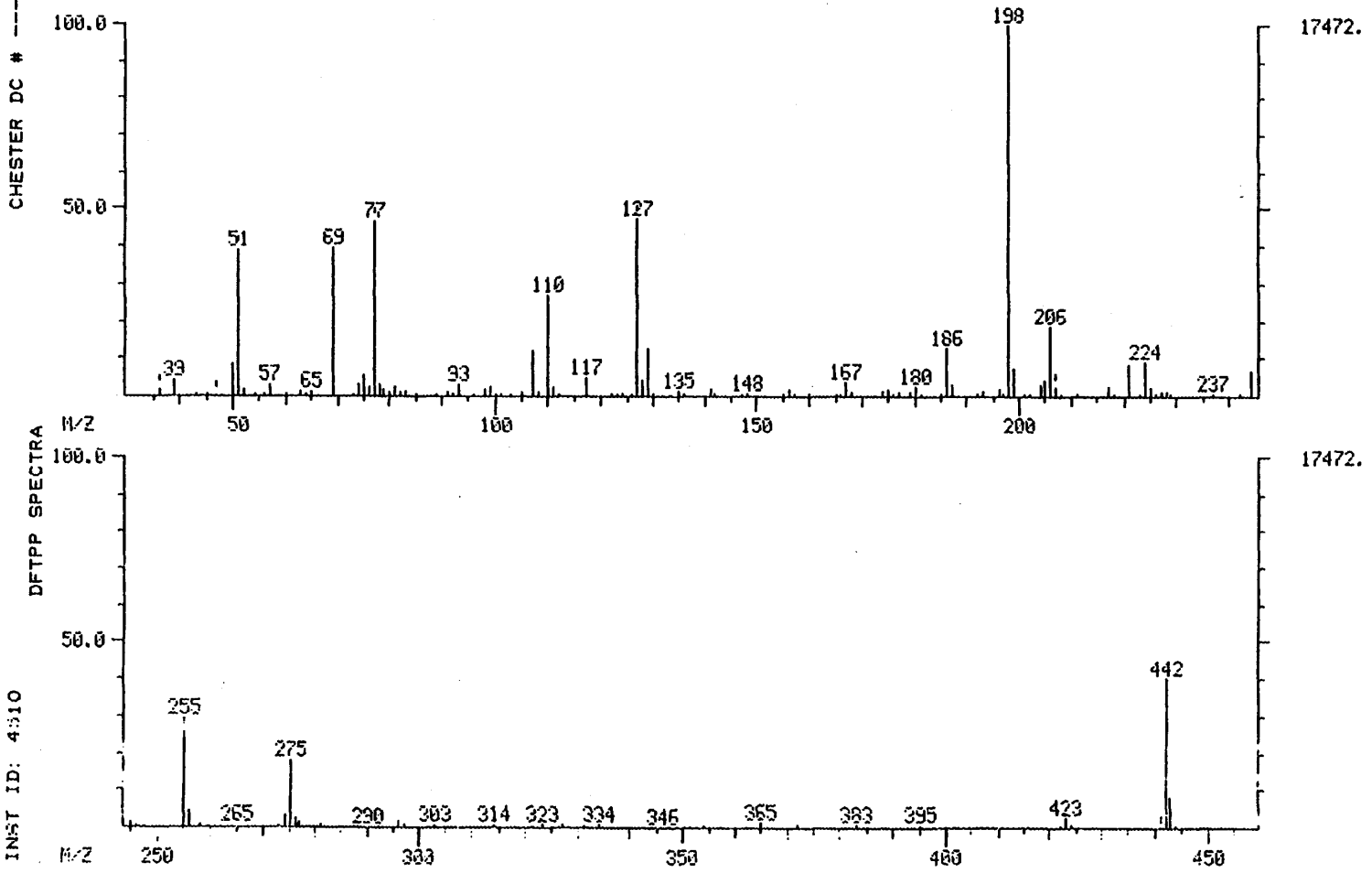
000031

011624

MASS SPECTRUM
03/31/93 10:48:00 + 3:55
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:*158 DEG. C
#234 TO #236 SUMMED - #217

DATA: FS0331C01 #235
CALI: FS0331C01 #3

BASE M/Z: 198
RIC: 112768.



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011625

011625

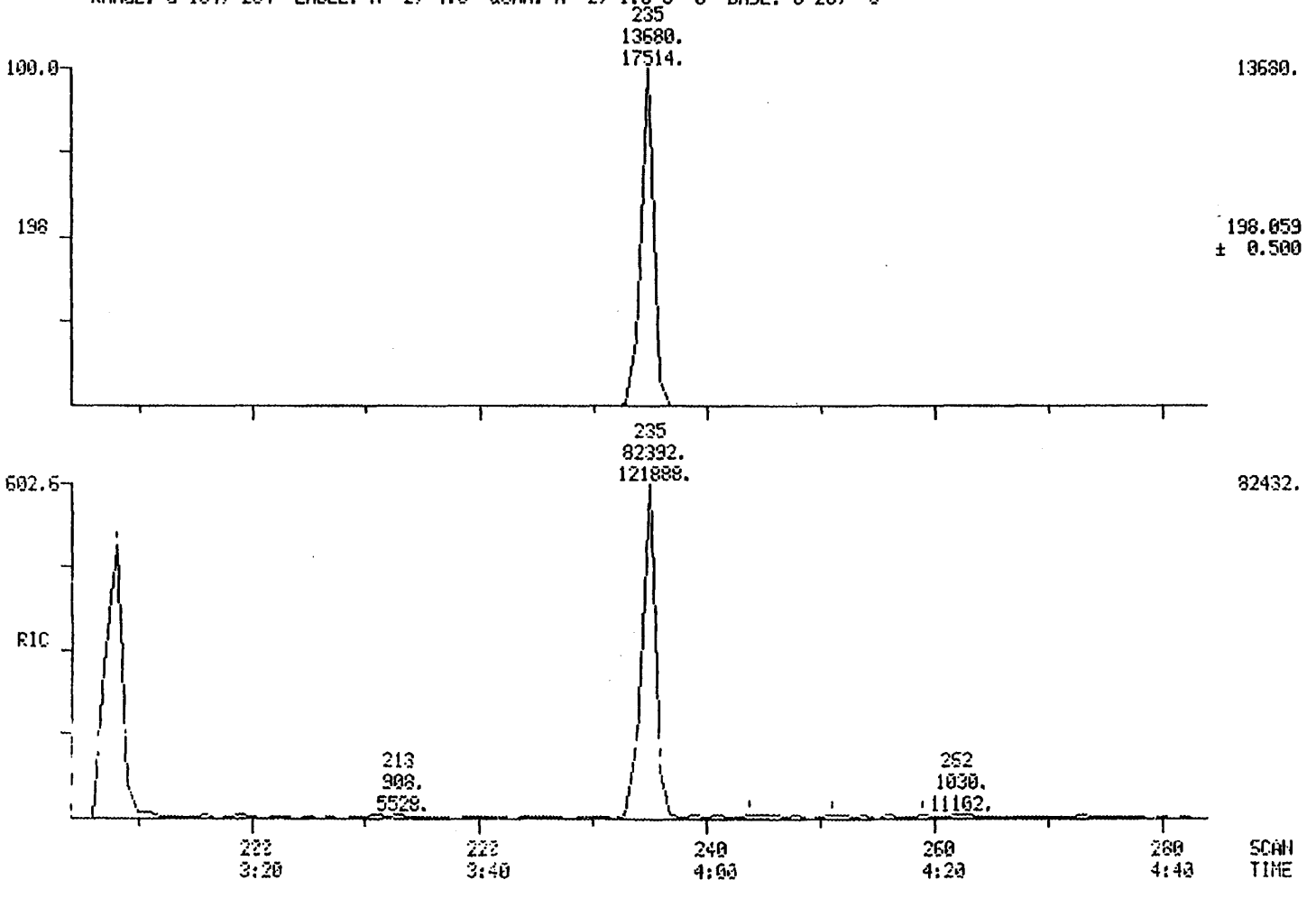
INST ID: 4510 CHESTER DC # --- -15

DFTPP MASS LISTING

Mass List Data: FS0331C01 # 235 Base m/z: 198
03/31/93 10:48:00 + 3:55 Cali: FS0331C01 # 3 RIC: 112768.
Sample: DFTPP
Conds.: ---
#234 to #236 summed - #217

36		0.00	0.	Minima	Min Inten:		90.
444				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
36?	S	1.82	318.	165		0.65	114.
39?		4.41	771.	166		0.56	97.
50		8.23	1438.	167		3.50	612.
51	S	38.69	6760.	168		1.17	204.
52		1.87	327.	174		0.96	167.
56		0.76	133.	175		1.51	263.
57		2.79	488.	177		0.91	159.
63		1.00	175.	179		1.13	197.
65		1.28	223.	180		2.15	376.
69		39.65	6928.	185		0.66	115.
73		0.71	124.	186		12.68	2216.
74		2.73	477.	187		3.19	558.
75		5.57	973.	193		0.97	170.
76		2.31	404.	196		1.62	283.
77	S	46.43	8112.	198		100.00	17472.
78		3.28	573.	199		7.37	1288.
79		1.92	335.	201		0.77	135.
80		1.36	237.	204		3.15	551.
81		2.46	430.	205		4.09	715.
82		0.96	167.	206		18.48	3228.
83		1.21	211.	207	S	2.58	450.
85		0.56	97.	211		0.75	131.
91		1.02	178.	217		2.50	437.
93		3.07	537.	218		0.68	119.
96		0.53	93.	221		8.18	1430.
98		1.73	303.	223		0.68	119.
99		2.49	435.	224		8.96	1566.
100		0.58	101.	225		2.42	423.
101		0.54	94.	227		1.33	233.
103		0.53	92.	228		0.94	165.
105		0.98	171.	244		6.36	1112.
107		11.71	2046.	245		0.94	165.
108		1.43	250.	246		0.70	122.
110		26.97	4712.	255		29.21	5104.
111		2.46	430.	256		4.48	783.
112		0.68	119.	258		0.76	132.
117		5.03	879.	273		0.71	124.
122		0.58	101.	274		3.09	540.
126		0.64	111.	275		17.67	3088.
127	S	47.34	8272.	276		2.39	418.
128		4.27	746.	277		0.96	168.
129		12.84	2244.	296		2.07	362.
130		0.73	127.	297		0.77	135.
135		1.09	190.	323		0.90	157.
141		1.81	317.	365		1.37	239.
142		0.83	145.	423		2.34	409.
147		0.54	94.	441		2.91	508.
148		0.81	142.	442		40.38	7056.
155		0.64	111.	443		7.72	1348.
156		2.08	363.				

RIC+MASS CHROMATOGRAM DATA: FS0331C01 #234 SCANS 184 TO 284
03/31/93 10:48:00 CALI: FS0331C01 #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 184, 284 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



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011627

011627

011628

Chester LabNet

LOW LEVEL SV SOLID EXTRACTION FORM

Chester Lab. No.. H93-03-245 3/31

Client: Dames + Moore

DASH NO.	SAMPLE NO.	SAMPLE WEIGHT	SURR. NO. & DATE	SURR. VOLUME	SPIKE NO. & DATE	VOL. OF SURR.	DATE/ TIME	ANAL.
001	LAB Blank	30g	6226A 3/15/93	.5ml			3/29/93	EJ
002	SC-3-3-6 (C1/C2)A							
003	SC-W-3-6 (MCD)A							
004	SC-W-3-6 (SSD)A							
	Nothing Follows							

DASH NO.	COMMENTS	GPC CLEAN DATE	ANAL.	Vf
001				1.0 ml
002				2.0 ml
003				4.0 ml
004				1.5 ml
	Nothing Follows			

Conc. 3/29/93

Temp. 76°C

Solvent Lot# BE366

Report Date: 3-30-93 JL

Nitrogen Blowdown: 3-30-93 JL

Low Level SV Ext. (09/91) REVISED

0000~~000010~~

011628

PRIORITY

011629

KEYSTONE LAB - HOUSTON
Job Summary Sheet

Produced on 29-MAR-1993

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-03.245
Due Date : 31-MAR-1993
Date Rec'd : 26-MAR-1993
Project ID :
P.O. Number: 18804-168

Attention: Contact: BRUCE HICKMAN

Job Description: DAMES&MORE (RCRA)
Number of samples: 4 Sampled by: CLIENT

Job Comments:
PLEASE ANALYZE FOR PAH'S
SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Pnt.	Sample Matrix	Date Sampled
245-001	LAB BLANK	GA_QC	SOIL	24-MAR-93
245-002	SC-~~Z~~-3-6 (C1/C2)A 1.82 Vf=2ml	X	SOIL	24-MAR-93
245-003	SC-W-3-6 (MCD)A 1.62 Vf=4ml	X	SOIL	24-MAR-93
245-004	SC-W-3-6 (SSD)A 1.19 Vf=1.5ml	X	SOIL	26-MAR-93

Analysis ID	Parameter Description	Number of Analyses
DRY_WT	Dry Weight Factor	4
EXT_8270SX	(Soil) Extraction by EPA 8270	4
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil	4

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number: 18804-168
Project Location: South Cascade
Laboratory: Keystone
Sampler(s): Wes Fiandt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	LPAH as per SAP	PSA as per SAP									TOTAL
SC-W-3-6 (Cd/Zn) A	3/24/93	X	X									
SC-W-3-6 (MCD) A	3/24/93	X	X									
SC-W-3-6 (SSD) A	3/24/93	X	X									

Relinquished by: W. Vitt	Organization: Dames & Moore	Date: 3/26/93	Time 2:30 pm	Seal Intact? Yes No N/A
Received by: Heather J Warnock	Organization: CHESTER ENVIRONMENTAL	Date: 3/26/93	Time 0230	
Relinquished by:	Organization:	Date: / /	Time	Seal Intact? Yes No N/A
Received by:	Organization:	Date: / /	Time	

Special Instructions / Remarks: Lab needs to Homogenize Samples (2 Jars) & then split

Delivery Method: [X] In Person [ ] Common Carrier _____ specify [ ] Lab Courier [ ] Other _____ specify

011630

011631

HT ✓
S ✓
MA ?
CC ✓
B ✓

Report
Prepared
for

Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Attention : Bruce Hickman

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID :
P.O. NUMBER : 18804

WORK ORDER : H93-03.270
DATE RECEIVED : 30-MAR-1993

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON

DOC. CONT NO:

PROJECT NO.: 18804

SITE: S. CAVALCADE

LAB NO.:H93-03.270

I. RECEIPT

A. DATE: MAR. 30, 1993

B. NO. OF SAMPLES: 4 SAMPLES.

C. CLIENT ID NUMBERS: SC-W3-6 (DWC)A
SC-W5 (C1/C2)B
SC-W5 (SD)B
SC-W5 (MCD)B

D. SAMPLE TYPE: Soils

E. ANALYSIS REQUESTED: cPAH (8270)
Grain Size (D-422)

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: At the request of Dames & Moore (2) data sheets provided per sample in each Work Order. First Organics Analysis Data Sheet contains cPAH follow with Full PAH LISTING.
Quanitation Data sheet will give complete PAH amounts.

I. COMMENTS: The Report for Grain Size by ASTM (D-422) will follow under separate cover in order to expedite the PAH data.

According to Contract, all sample data Faxed (4/3/93) as a prelimiary to receival of Data Package.

Robert R. Barrientos

Robert R. Barrientos, Project Manager

April 07, 1993

Date

011633

Keystone Lab - Houston
Soil Surrogate Recovery Summary
Keystone Work Order # H93-03.270

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK	63	76	69	84	69	76	55	83
SC-W3-6 (DWC)A	DL	DL	DL	DL	DL	DL	DL	DL
SC-W5 (C1/C2)B	DL	DL	DL	DL	DL	DL	DL	DL
SC-W5 (SD)B	DL	DL	DL	DL	DL	DL	DL	DL
SC-W5 (MCD)B	DL	DL	DL	DL	DL	DL	DL	DL

Surrogate Name	QC LIMITS	Surrogate Name	QC LIMITS
S1(NBZ) = Nitrobenzene-d5	22-120	S2(FBP) = 2-Fluorobiphenyl	30-115
S3(TPH) = Terphenyl-d14	18-137	S4(PHL) = Phenol-d5	24-113
S5(2FP) = 2-Fluorophenol	25-121	S6(TBP) = 2,4,6-Tribromophenol	19-122
S7(2CP) = 2-Chlorophenol-d4	20-130**	S8(DCB) = 1,2-Dichlorobenzene-d4	20-130**

0 out of 8 : outside of QC limits.

* = Values are outside of QC limits ** = Advisory QC Limits NA = Not Applicable

000002

011634

INST ID: 4530 SAMPLE NUMBER: SC-W3-6 (DWC)A

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 9303127002
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: --
QC REPORT NO.: 04/01/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 03/30/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93

DATAFILE: 4U03270C02

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	90	420
C740	CHRYSENE	90	270
C765	BENZO(B)FLUORANTHENE	90	240
C770	BENZO(K)FLUORANTHENE	90	110
C775	BENZO(A)PYRENE	90	180
C780	INDENO(1,2,3-CD)PYRENE	90	89 J
C785	DIBENZO(A,H)ANTHRACENE	90	35 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011635

INST ID: 4530 SAMPLE NUMBER: SC-W3-6 (DWC)A

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 9303127002 QC REPORT NO.: 04/01/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 03/30/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U03270C02
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	90	1300
C540	ACENAPHTHYLENE	90	91
C550	ACENAPHTHENE	90	780
C590	FLUORENE	90	1100
C640	PHENANTHRENE	90	3200
C645	ANTHRACENE	90	620
C655	FLUORANTHENE	90	1700
C715	PYRENE	90	1100
C730	BENZO(A)ANTHRACENE	90	420
C740	CHRYSENE	90	270
C765	BENZO(B)FLUORANTHENE	90	240
C770	BENZO(K)FLUORANTHENE	90	110
C775	BENZO(A)PYRENE	90	180
C780	INDENO(1,2,3-CD)PYRENE	90	89 J
C785	DIBENZO(A,H)ANTHRACENE	90	35 J
C790	BENZO(GHI)PERYLENE	90	81 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

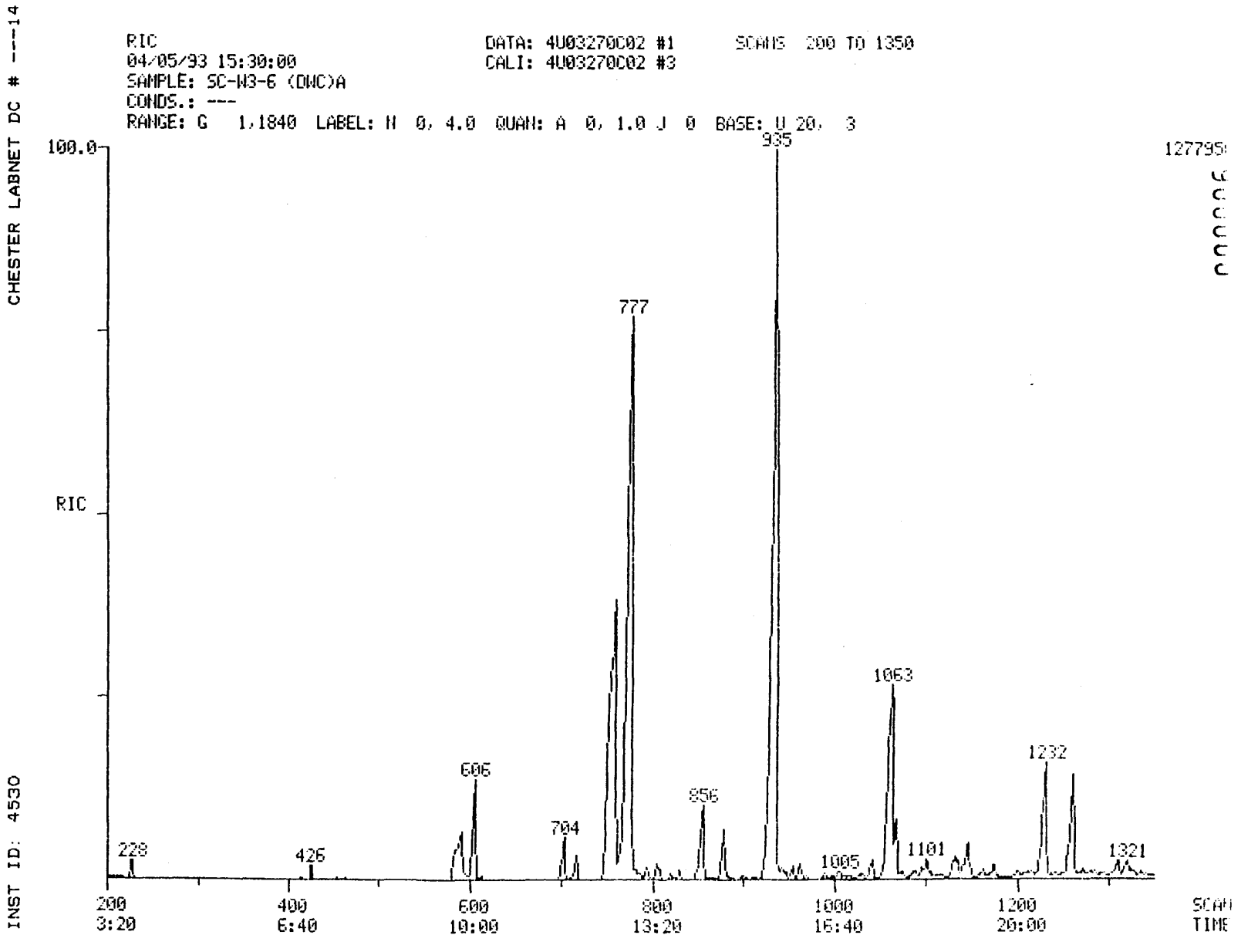
SEMIVOLATILE SOIL REPORT

011636

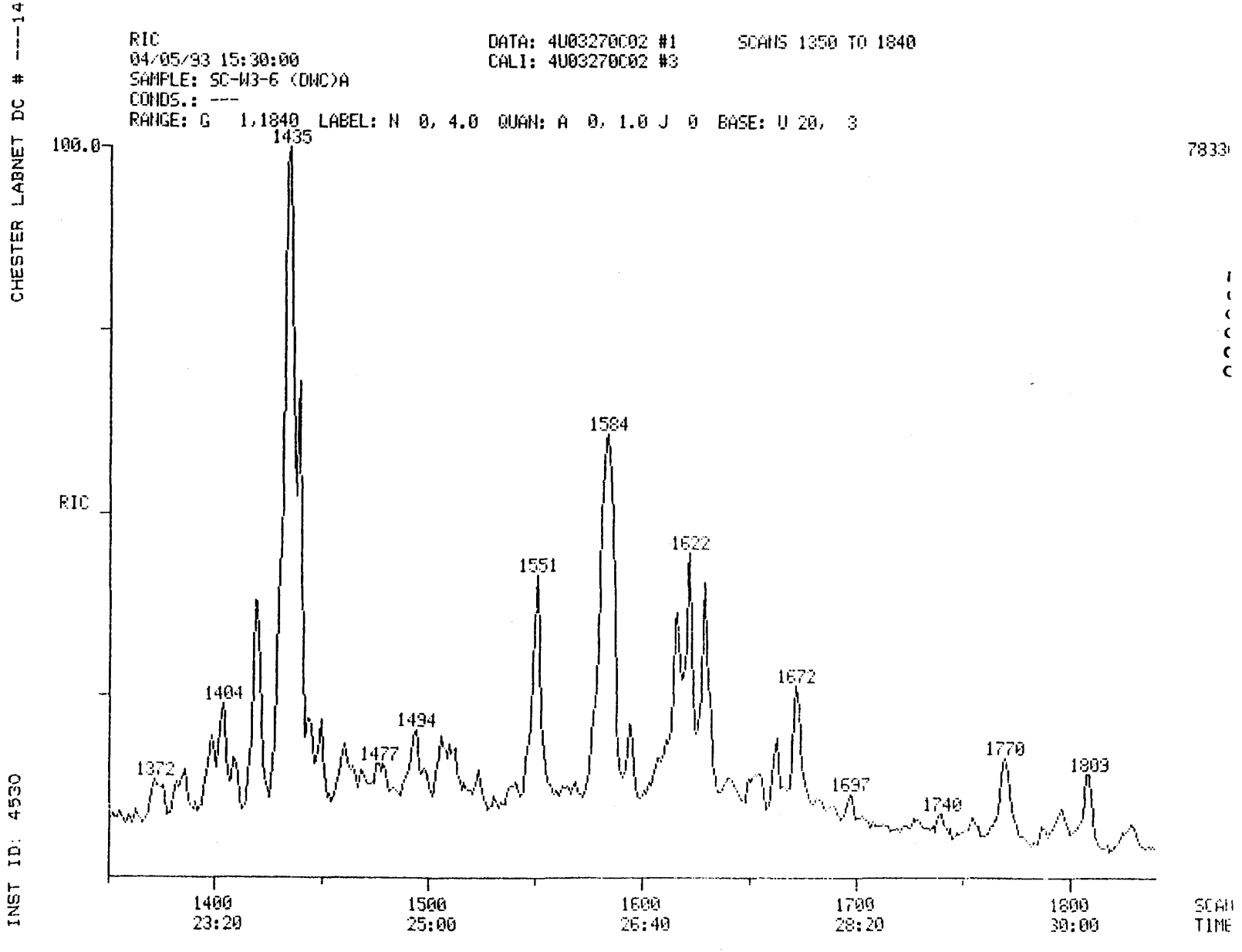
SAMPLE ID.	SC-W3-6 (DWC)A		
FILENAME	4U03270C02	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	SC
DATE INJECTED	04/05/93 15:30:00	VERIFIED BY	SC
CALIB STD DATE	04/01/93	CORR. FACTOR	9.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT		RRT	ARE
426	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	180	MG/KG	1.000	128
603	CI40	NAPHTHALENE-D8 ** IS2 **	136	180	MG/KG	1.000	446
851	CI50	ACENAPHTHENE-D10 ** IS3 **	164	180	MG/KG	1.000	271
1059	CI60	PHENANTHRENE-D10 ** IS4 **	188	180	MG/KG	1.000	489
1436	CI70	CHRYSENE-D12 ** IS5 **	240	180	MG/KG	1.000	411
1629	CI75	PERYLENE-D12 ** IS6 **	264	180	MG/KG	1.000	375
606	C450	NAPHTHALENE	128	1260	MG/KG	1.005	3283
829	C540	ACENAPHTHYLENE	152	91	MG/KG	0.974	237
856	C550	ACENAPHTHENE	153	779	MG/KG	1.006	1043
928	C590	FLUORENE	166	1104	MG/KG	1.090	2239
1063	C640	PHENANTHRENE	178	3177	MG/KG	1.004	9706
1067	C645	ANTHRACENE	178	621	MG/KG	1.008	1803
1232	C655	FLUORANTHENE	202	1703	MG/KG	1.163	5548
1262	C715	PYRENE	202	1102	MG/KG	0.879	3803
1434	C730	BENZO(A)ANTHRACENE	228	419	MG/KG	0.999	1287
1440	C740	CHRYSENE	228	269	MG/KG	1.003	619
1583	C765	BENZO(B)FLUORANTHENE	252	239	MG/KG	0.972	856
1584	C770	BENZO(K)FLUORANTHENE	252	106	MG/KG	0.972	274
1622	C775	BENZO(A)PYRENE	252	178	MG/KG	0.996	448
1770	C780	INDENO(1,2,3-CD)PYRENE	276	89	MG/KG	1.087	249
1772	C785	DIBENZO(A,H)ANTHRACENE	278	35	MG/KG	1.088	78
1808	C790	BENZO(GHI)PERYLENE	276	81	MG/KG	1.110	197

SURROGATES WERE DILUTED OUT


CHESTER LABNET DC # ---14
INST ID: 4530
RIC
04/05/93 15:30:00
SAMPLE: SC-W3-6 (DWC)A
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 4U03270C02 #1
CALI: 4U03270C02 #3
SCANS 200 TO 1350
100.0
RIC
935
777
1063
1232
606
856
704
228
426
1005
1101
1321
200
3:20
400
6:40
600
10:00
800
13:20
1000
16:40
1200
20:00
SCAN
TIME

011637


CHESTER LABNET DC # ---14
INST ID: 4530
RIC
04/05/93 15:30:00
SAMPLE: SC-W3-6 (DWC)A
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 4U03270C02 #1
CALI: 4U03270C02 #3
SCANS 1350 TO 1840
100.0
RIC
1435
1584
1551
1622
1672
1404
1494
1477
1372
1770
1809
1697
1740
1400
23:20
1500
25:00
1600
26:40
1700
28:20
1800
30:00
SCAN
TIME

011638

011639

INST ID: 4530 SAMPLE NUMBER: SC-WS (C1/C2)B

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930327003 QC REPORT NO.: 04/01/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 03/30/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U03270C03
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	46	190
C740	CHRYSENE	46	130
C765	BENZO(B)FLUORANTHENE	46	150
C770	BENZO(K)FLUORANTHENE	46	72
C775	BENZO(A)PYRENE	46	120
C780	INDENO(1,2,3-CD)PYRENE	46	72
C785	DIBENZO(A,H)ANTHRACENE	46	31 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

000000

011640

INST ID: 4530 SAMPLE NUMBER: SC-WS (C1/C2)B

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930327003 QC REPORT NO.: 04/01/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: Roy DATE SAMPLE RECEIVED: 03/30/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U03270C03
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	46	420
C540	ACENAPHTHYLENE	46	31 J
C550	ACENAPHTHENE	46	240
C590	FLUORENE	46	360
C640	PHENANTHRENE	46	1200
C645	ANTHRACENE	46	370
C655	FLUORANTHENE	46	580
C715	PYRENE	46	390
C730	BENZO(A)ANTHRACENE	46	190
C740	CHRYSENE	46	130
C765	BENZO(B)FLUORANTHENE	46	150
C770	BENZO(K)FLUORANTHENE	46	72
C775	BENZO(A)PYRENE	46	120
C780	INDENO(1,2,3-CD)PYRENE	46	72
C785	DIBENZO(A,H)ANTHRACENE	46	31 J
C790	BENZO(GHI)PERYLENE	46	73

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

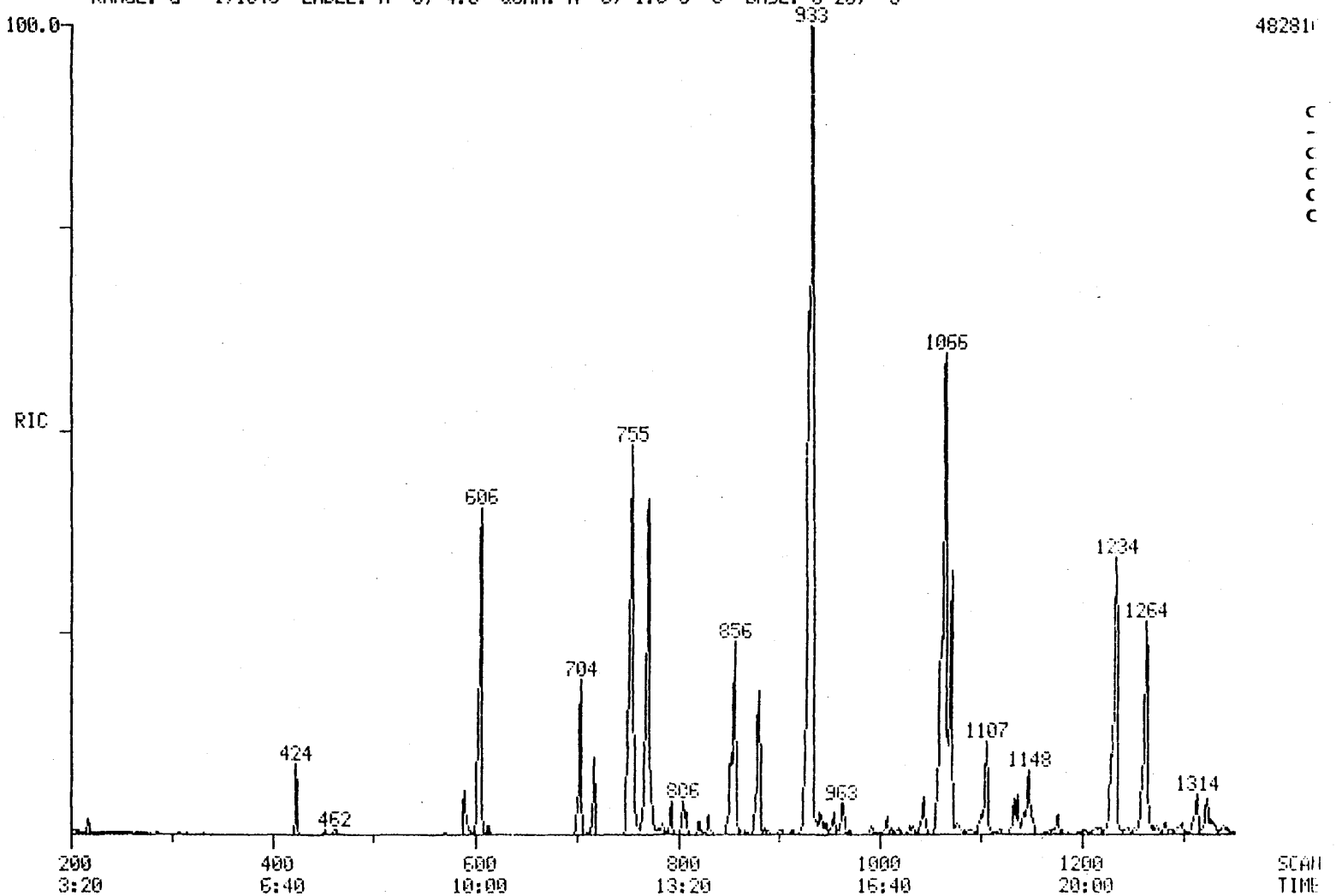
RIC
04/05/93 16:11:00
SAMPLE: SC-W5 (C1/C2)B
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4U03270C03 #1
CALI: 4U03270C03 #3

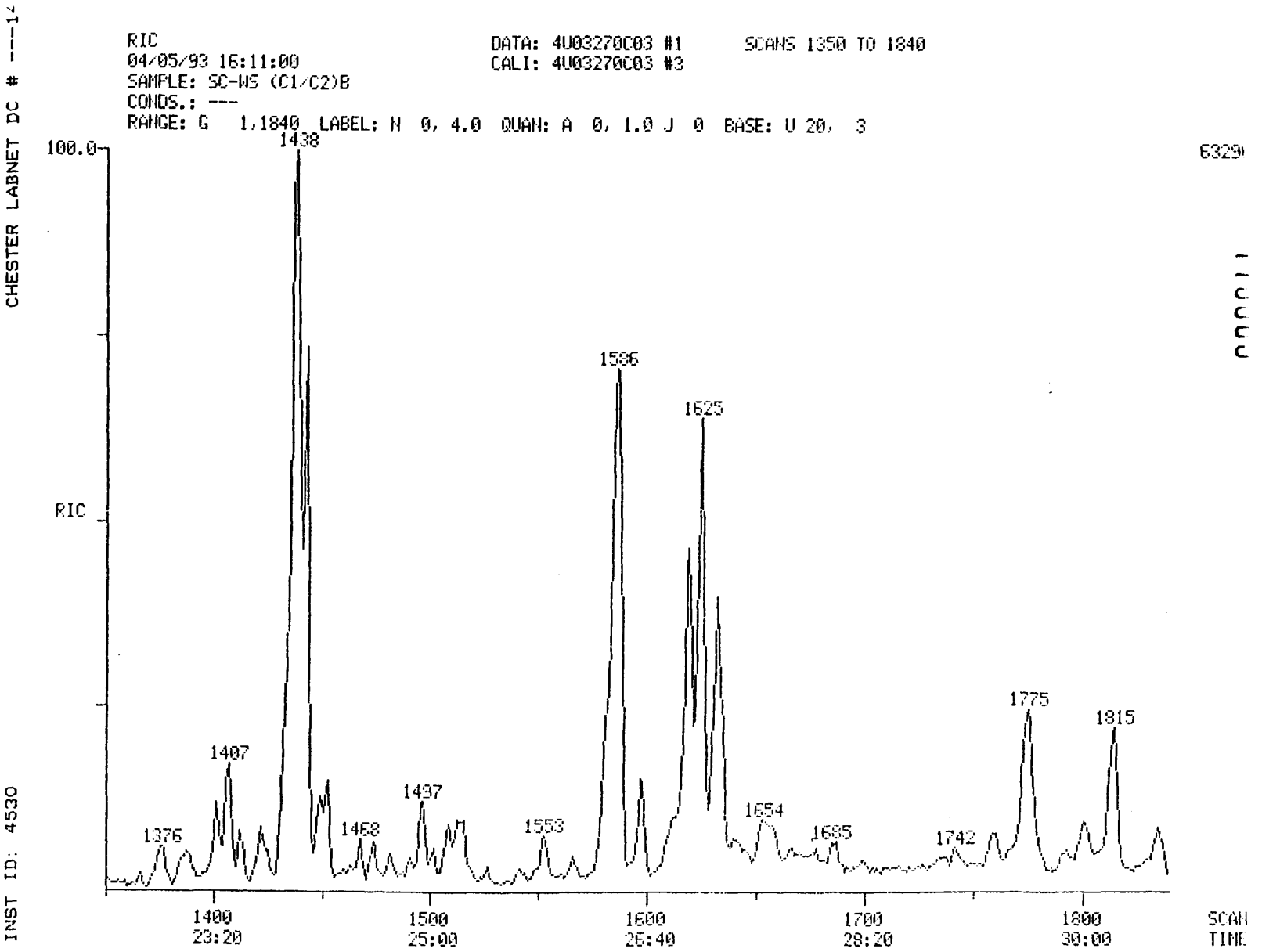
SCANS 200 TO 1350

CHESTER LABNET DC # ---1

INST ID: 4530



011641


RIC
04/05/93 16:11:00
SAMPLE: SC-WS (C1/C2)B
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 4U03270C03 #1
CALI: 4U03270C03 #3
SCANS 1350 TO 1840
CHESTER LABNET DC #
INST ID: 4530
100.0
RIC
1438
1586
1625
1407
1376
1468
1497
1553
1654
1685
1742
1775
1815
1400
23:20
1500
25:00
1600
26:40
1700
28:20
1800
30:00
SCAN
TIME

011642

SEMIVOLATILE SOIL REPORT

011643

SAMPLE ID.	SC-WS (C1/C2)B		
FILENAME	4U03270C03	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	SC
DATE INJECTED	04/05/93 16:11:00	VERIFIED BY	
CALIB STD DATE	04/01/93	CORR. FACTOR	4.60

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT		RRT	AR
424	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	92	MG/KG	1.000	17
602	CI40	NAPHTHALENE-D8 ** IS2 **	136	92	MG/KG	1.000	64
851	CI50	ACENAPHTHENE-D10 ** IS3 **	164	92	MG/KG	1.000	33
1060	CI60	PHENANTHRENE-D10 ** IS4 **	188	92	MG/KG	1.000	47
1439	CI70	CHRYSENE-D12 ** IS5 **	240	92	MG/KG	1.000	42
1632	CI75	PERYLENE-D12 ** IS6 **	264	92	MG/KG	1.000	37
605	C450	NAPHTHALENE	128	425	MG/KG	1.005	310
830	C540	ACENAPHTHYLENE	152	31	MG/KG	0.975	19
856	C550	ACENAPHTHENE	153	243	MG/KG	1.006	77
929	C590	FLUORENE	166	365	MG/KG	1.092	177
1066	C640	PHENANTHRENE	178	1250	MG/KG	1.006	730
1071	C645	ANTHRACENE	178	375	MG/KG	1.010	207
1234	C655	FLUORANTHENE	202	582	MG/KG	1.164	362
1264	C715	PYRENE	202	393	MG/KG	0.878	273
1438	C730	BENZO(A)ANTHRACENE	228	194	MG/KG	0.999	120
1443	C740	CHRYSENE	228	128	MG/KG	1.003	59
1585	C765	BENZO(B)FLUORANTHENE	252	154	MG/KG	0.971	107
1587	C770	BENZO(K)FLUORANTHENE	252	72	MG/KG	0.972	36
1625	C775	BENZO(A)PYRENE	252	123	MG/KG	0.996	60
1774	C780	INDENO(1,2,3-CD)PYRENE	276	72	MG/KG	1.087	39
1776	C785	DIBENZO(A,H)ANTHRACENE	278	31	MG/KG	1.088	13
1815	C790	BENZO(GHI)PERYLENE	276	73	MG/KG	1.112	35

SUROOGATES WERE DILUTED OUT

011644

INST ID: 4530

SAMPLE NUMBER: SC-W5 (SD)B

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930327004
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: --
QC REPORT NO.: 04/01/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 03/30/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93

DATAFILE: 4U03270C04

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	55	140
C740	CHRYSENE	55	22 J
C765	BENZO(B)FLUORANTHENE	55	160
C770	BENZO(K)FLUORANTHENE	55	140
C775	BENZO(A)PYRENE	55	150
C780	INDENO(1,2,3-CD)PYRENE	55	93
C785	DIBENZO(A,H)ANTHRACENE	55	41 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011645

INST ID: 4530 SAMPLE NUMBER: SC-W5 (SD)B

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930327004 QC REPORT NO.: 04/01/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 03/30/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U03270C04
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	55	750
C540	ACENAPHTHYLENE	55	31 J
C550	ACENAPHTHENE	55	360
C590	FLUORENE	55	480
C640	PHENANTHRENE	55	1600
C645	ANTHRACENE	55	700
C655	FLUORANTHENE	55	690
C715	PYRENE	55	570
C730	BENZO(A)ANTHRACENE	55	140
C740	CHRYSENE	55	22 J
C765	BENZO(B)FLUORANTHENE	55	160
C770	BENZO(K)FLUORANTHENE	55	140
C775	BENZO(A)PYRENE	55	150
C780	INDENO(1,2,3-CD)PYRENE	55	93
C785	DIBENZO(A,H)ANTHRACENE	55	41 J
C790	BENZO(GHI)PERYLENE	55	83

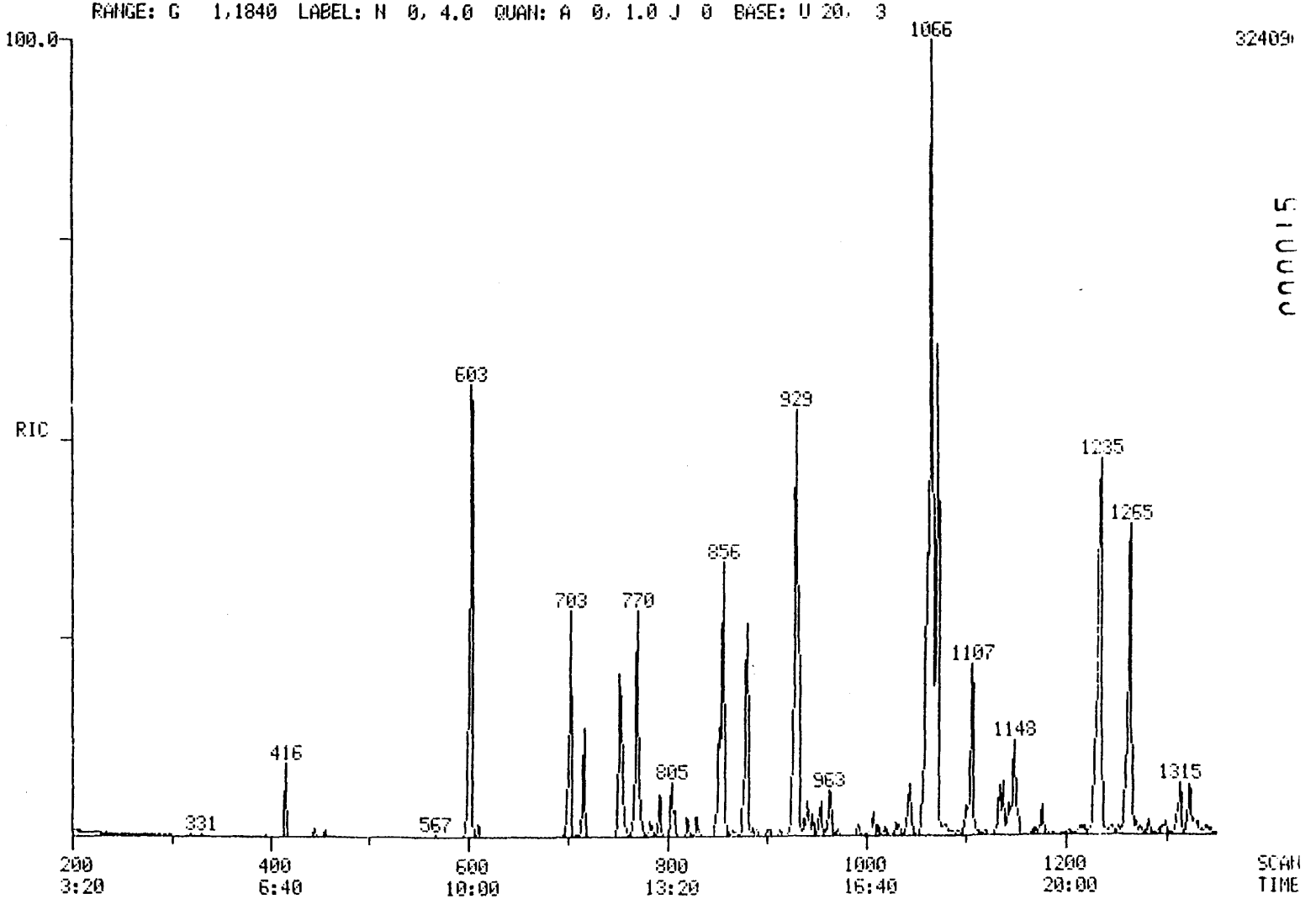
U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

CHESTER LABNET DC # ---14

RIC
04/05/93 16:51:00
SAMPLE: SC-W5 (SD)B
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

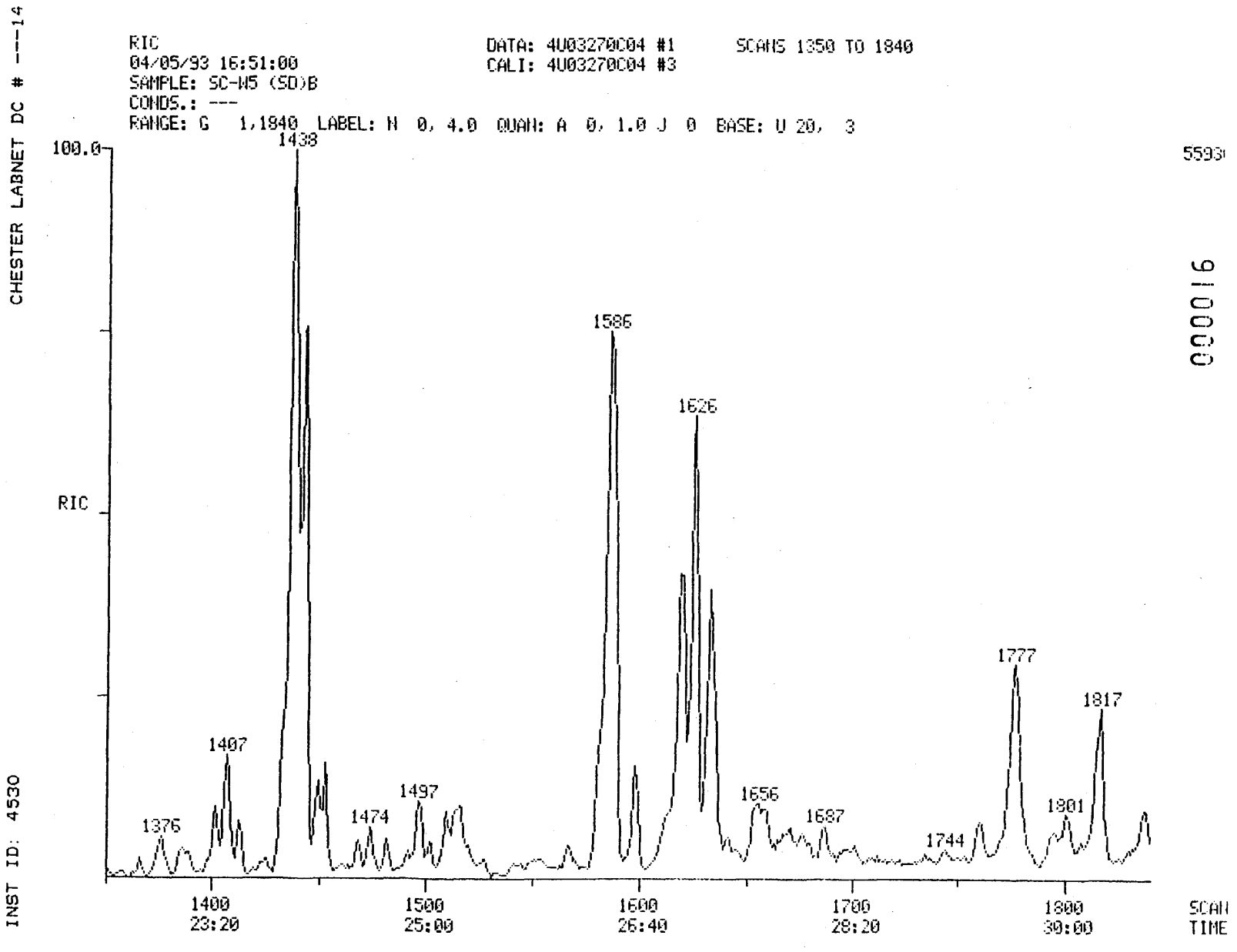
DATA: 4U03270C04 #1
CALI: 4U03270C04 #3

SCANS 200 TO 1350



INST ID: 4530

011646


CHESTER LABNET DC # ---14
INST ID: 4530
RIC
04/05/93 16:51:00
SAMPLE: SC-W5 (SD)B
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 4U03270C04 #1
CALI: 4U03270C04 #3
SCANS 1350 TO 1840
100.0
RIC
1438
1586
1626
1407
1376
1474
1497
1656
1687
1744
1777
1801
1817
1400
23:20
1500
25:00
1600
26:40
1700
28:20
1800
30:00
SCAN
TIME

011647

SEMIVOLATILE SOIL REPORT

011648

SAMPLE ID.	SC-W5 (SD)B		
FILENAME	4U03270C04	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	SC
DATE INJECTED	04/05/93 16:51:00	VERIFIED BY	SC
CALIB STD DATE	04/01/93	CORR. FACTOR	5.50

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT		RRT	AR
416	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	110	MG/KG	1.000	13
600	CI40	NAPHTHALENE-D8 ** IS2 **	136	110	MG/KG	1.000	48
851	CI50	ACENAPHTHENE-D10 ** IS3 **	164	110	MG/KG	1.000	31
1060	CI60	PHENANTHRENE-D10 ** IS4 **	188	110	MG/KG	1.000	46
1440	CI70	CHRYSENE-D12 ** IS5 **	240	110	MG/KG	1.000	34
1633	CI75	PERYLENE-D12 ** IS6 **	264	110	MG/KG	1.000	35
603	C450	NAPHTHALENE	128	751	MG/KG	1.005	343
829	C540	ACENAPHTHYLENE	152	31	MG/KG	0.974	15
856	C550	ACENAPHTHENE	153	360	MG/KG	1.006	91
929	C590	FLUORENE	166	475	MG/KG	1.092	182
1066	C640	PHENANTHRENE	178	1558	MG/KG	1.006	746
1072	C645	ANTHRACENE	178	702	MG/KG	1.011	319
1235	C655	FLUORANTHENE	202	692	MG/KG	1.165	353
1265	C715	PYRENE	202	575	MG/KG	0.878	275
1443	C730	BENZO(A)ANTHRACENE	228	138	MG/KG	1.002	58
1453	C740	CHRYSENE	228	22	MG/KG	1.009	7
1586	C765	BENZO(B)FLUORANTHENE	252	163	MG/KG	0.971	90
1588	C770	BENZO(K)FLUORANTHENE	252	137	MG/KG	0.972	55
1625	C775	BENZO(A)PYRENE	252	150	MG/KG	0.995	58
1776	C780	INDENO(1,2,3-CD)PYRENE	276	93	MG/KG	1.088	40
1778	C785	DIBENZO(A,H)ANTHRACENE	278	41	MG/KG	1.089	14
1817	C790	BENZO(GHI)PERYLENE	276	83	MG/KG	1.113	31

SURROGATES WERE DILUTED OUT

011649

INST ID: 4530 SAMPLE NUMBER: SC-W5 (MCD)B

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930327005 QC REPORT NO.: 04/01/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY:..... DATE SAMPLE RECEIVED: 03/30/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U03270C05
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	17	70
C740	CHRYSENE	17	52
C765	BENZO(B)FLUORANTHENE	17	35
C770	BENZO(K)FLUORANTHENE	17	54
C775	BENZO(A)PYRENE	17	43
C780	INDENO(1,2,3-CD)PYRENE	17	24
C785	DIBENZO(A,H)ANTHRACENE	17	10 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011650

INST ID: 4530 SAMPLE NUMBER: SC-W5 (MCD)B

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930327005 QC REPORT NO.: 04/01/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 03/30/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4U03270C05
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	17	130
C540	ACENAPHTHYLENE	17	10 J
C550	ACENAPHTHENE	17	89
C590	FLUORENE	17	120
C640	PHENANTHRENE	17	410
C645	ANTHRACENE	17	190
C655	FLUORANTHENE	17	190
C715	PYRENE	17	120
C730	BENZO(A)ANTHRACENE	17	70
C740	CHRYSENE	17	52
C765	BENZO(B)FLUORANTHENE	17	35
C770	BENZO(K)FLUORANTHENE	17	54
C775	BENZO(A)PYRENE	17	43
C780	INDENO(1,2,3-CD)PYRENE	17	24
C785	DIBENZO(A,H)ANTHRACENE	17	10 J
C790	BENZO(GHI)PERYLENE	17	26

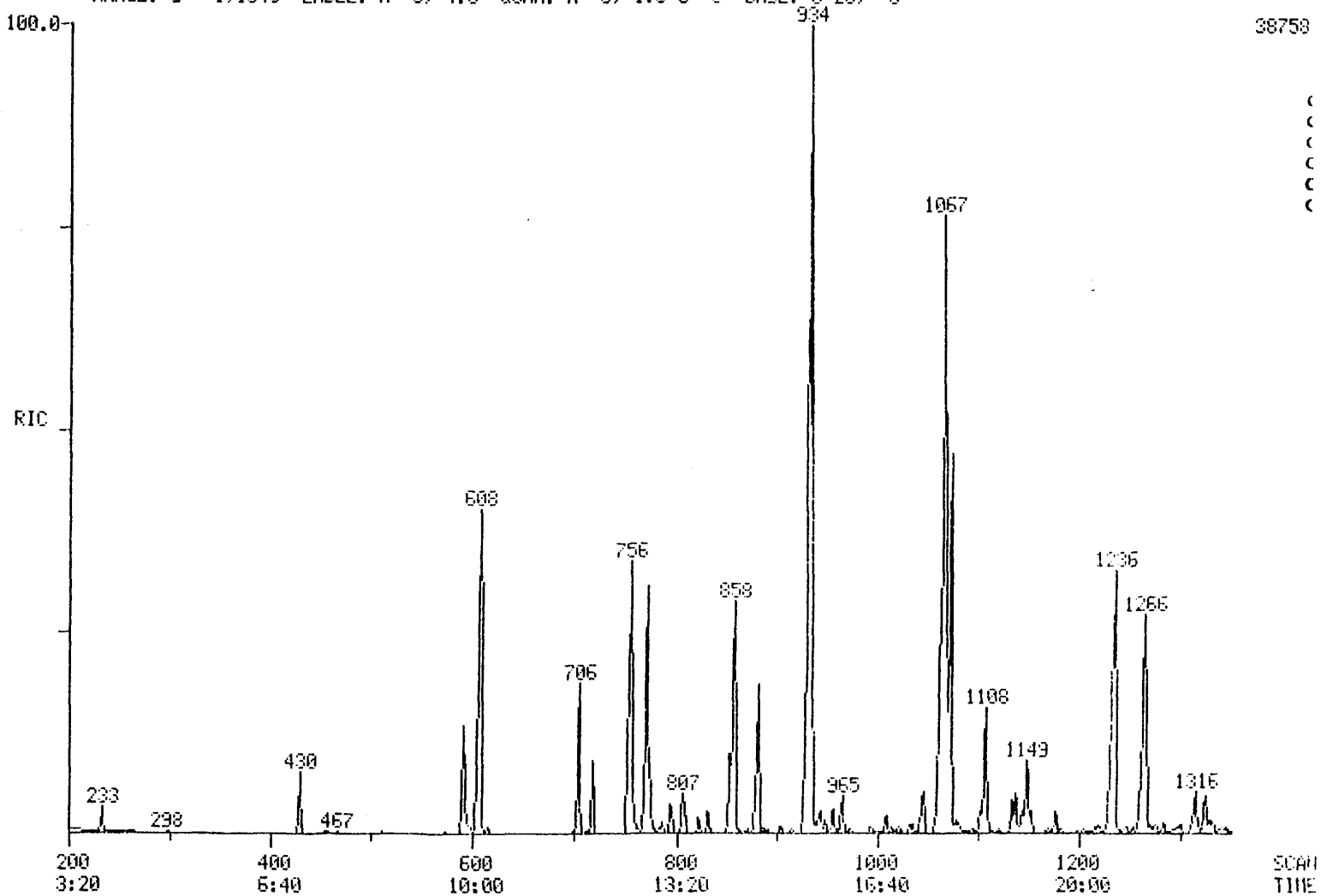
U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

CHESTER LABNET DC # ---1

RIC
04/05/93 17:36:00
SAMPLE: SC-W5 (MCD)B
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

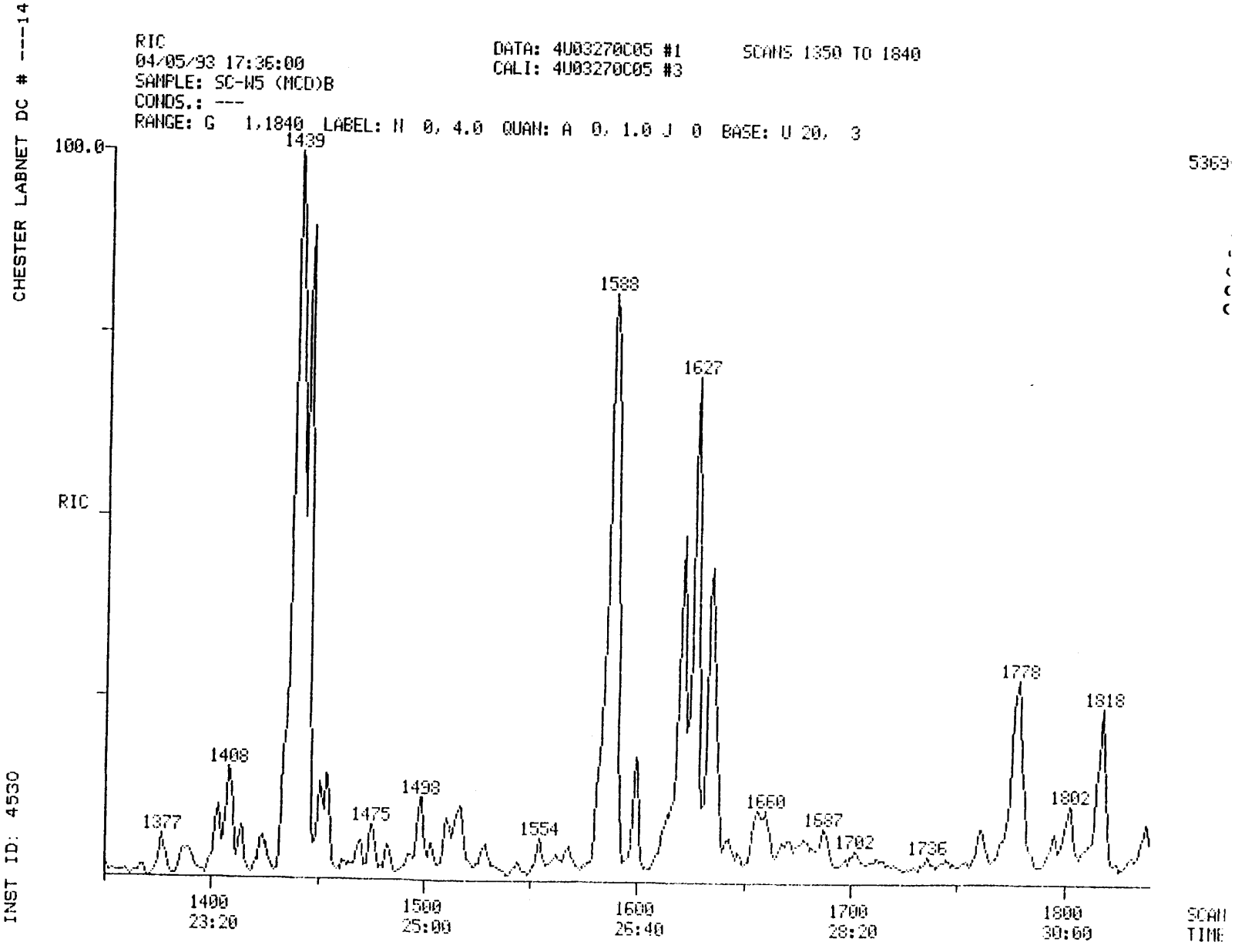
DATA: 4U03270C05 #1
CALI: 4U03270C05 #3

SCANS 200 TO 1350



INST ID: 4530

011651


CHESTER LABNET DC # ---14
INST ID: 4530
RIC
04/05/93 17:36:00
SAMPLE: SC-W5 (MCD)B
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 4U03270C05 #1
CALI: 4U03270C05 #3
SCANS 1350 TO 1840
100.0
RIC
1439
1588
1627
1778
1818
1408
1498
1377
1475
1554
1660
1687
1702
1736
1802
1400
23:20
1500
25:00
1600
26:40
1700
28:20
1800
30:00
SCAN
TIME

011652

SEMIVOLATILE SOIL REPORT

011653

SAMPLE ID.	SC-W5 (MCD)B		
FILENAME	4U03270C05	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	SC
DATE INJECTED	04/05/93 17:36:00	VERIFIED BY	
CALIB STD DATE	04/01/93	CORR. FACTOR	1.70

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT		RRT	AR
430	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	34	MG/KG	1.000	13
605	CI40	NAPHTHALENE-D8 ** IS2 **	136	34	MG/KG	1.000	54
853	CI50	ACENAPHTHENE-D10 ** IS3 **	164	34	MG/KG	1.000	33
1062	CI60	PHENANTHRENE-D10 ** IS4 **	188	34	MG/KG	1.000	45
1441	CI70	CHRYSENE-D12 ** IS5 **	240	34	MG/KG	1.000	39
1634	CI75	PERYLENE-D12 ** IS6 **	264	34	MG/KG	1.000	38
608	C450	NAPHTHALENE	128	133	MG/KG	1.005	222
831	C540	ACENAPHTHYLENE	152	10	MG/KG	0.974	17
858	C550	ACENAPHTHENE	153	89	MG/KG	1.006	77
930	C590	FLUORENE	166	122	MG/KG	1.090	160
1067	C640	PHENANTHRENE	178	414	MG/KG	1.005	625
1073	C645	ANTHRACENE	178	192	MG/KG	1.010	275
1236	C655	FLUORANTHENE	202	190	MG/KG	1.164	307
1265	C715	PYRENE	202	125	MG/KG	0.878	220
1439	C730	BENZO(A)ANTHRACENE	228	70	MG/KG	0.999	110
1445	C740	CHRYSENE	228	52	MG/KG	1.003	61
1587	C765	BENZO(B)FLUORANTHENE	252	35	MG/KG	0.971	67
1588	C770	BENZO(K)FLUORANTHENE	252	54	MG/KG	0.972	761
1627	C775	BENZO(A)PYRENE	252	43	MG/KG	0.996	58
1778	C780	INDENO(1,2,3-CD)PYRENE	276	24	MG/KG	1.088	364
1779	C785	DIBENZO(A,H)ANTHRACENE	278	10	MG/KG	1.089	11
1818	C790	BENZO(GHI)PERYLENE	276	26	MG/KG	1.113	340

SURROGATES WERE DILUTED OUT

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. --
CONTRACT LAB: CHESTER LABNET
CONTRACT NO. --
INSTRUMENT IDENTIFIER: 4530
CALIBRATION DATE: 04/01/93
STANDARD FILE: ES0405C02
DATE: 04/05/93 TIME: 10:07
MAXIMUM % D FOR CCC IS 20

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.500	1.566	4.351
C325	BIS(2-CHLOROETHYL)ETHE	1.615	1.486	-8.003
C330	2-CHLOROPHENOL	1.269	1.337	5.332
C335	1,3-DICHLOROBENZENE	1.413	1.416	0.171
C340	1,4-DICHLOROBENZENE	1.475	1.497	1.464
C345	BENZYL ALCOHOL	0.646	0.912	41.101
C350	1,2-DICHLOROBENZENE	1.391	1.404	0.882
C355	2-METHYLPHENOL	1.118	1.301	16.342
C357	2,2'-OXYBIS(1-CHLOROPR	1.299	1.096	-15.604
C365	4-METHYLPHENOL	1.141	1.038	-9.054
C370	N-NITROSODIPROPYLAMINE	0.694	0.714	2.916
C375	HEXACHLOROETHANE	0.553	0.548	-0.992
C410	NITROBENZENE	0.461	0.497	7.788
C415	ISOPHORONE	0.753	0.760	1.035
C420	2-NITROPHENOL	0.218	0.217	-0.381
C425	2,4-DIMETHYLPHENOL	0.292	0.278	-4.796
C430	BENZOIC ACID	0.145	0.184	26.237
C435	BIS(2-CHLOROETHOXY)MET	0.480	0.432	-9.947
C440	2,4-DICHLOROPHENOL	0.286	0.279	-2.431
C445	1,2,4-TRICHLOROBENZENE	0.316	0.314	-0.598
C450	NAPHTHALENE	1.065	1.046	-1.748
C455	4-CHLOROANILINE	0.281	0.113	-59.613
C460	HEXACHLOROBUTADIENE	0.146	0.151	3.790
C465	P-CHLORO-M-CRESOL	0.245	0.235	-4.121
C470	2-METHYLNAPHTHALENE	0.761	0.824	8.363
C510	HEXACHLOROCYCLOPENTADI	0.326	0.328	0.774
C515	2,4,6-TRICHLOROPHENOL	0.338	0.344	1.541
C520	2,4,5-TRICHLOROPHENOL	0.368	0.409	11.170
C525	2-CHLORONAPHTHALENE	1.124	1.115	-0.740
C530	2-NITROANILINE	0.273	0.256	-6.388
C535	DIMETHYL PHTHALATE	1.267	1.158	-8.600
C540	ACENAPHTHYLENE	1.896	1.731	-8.696
C545	3-NITROANILINE	0.233	0.083	-64.327
C550	ACENAPHTHENE	0.984	0.888	-9.794
C555	2,4-DINITROPHENOL	0.164	0.158	-3.715
C560	4-NITROPHENOL	0.082	0.104	25.625
C565	DIBENZOFURAN	1.445	1.470	1.740
C570	2,4-DINITROTOLUENE	0.344	0.344	0.060
C543	2,6-DINITROTOLUENE	0.295	0.281	-5.034
C580	DIETHYL PHTHALATE	1.139	1.143	0.318
C585	4-CHLOROPHENYL PHENYL	0.582	0.593	1.790
C590	FLUORENE	1.072	1.344	25.406
C595	4-NITROANILINE	0.180	0.152	-15.668
C610	4,6-DINITRO-2-METHYLPH	0.162	0.149	-7.913
C615	N-NITROSODIPHENYLAMINE	0.535	0.504	-5.861
C625	4-BROMOPHENYL PHENYL E	0.215	0.192	-10.409
C630	HEXACHLOROBENZENE	0.211	0.208	-1.733
C635	PENTACHLOROPHENOL	0.110	0.108	-1.165
C640	PHENANTHRENE	1.351	1.122	-16.936
C645	ANTHRACENE	1.014	1.066	5.185
C650	DI-N-BUTYL PHTHALATE	1.561	1.333	-14.625
C655	FLUORANTHENE	1.379	1.197	-13.224

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C715	PYRENE	1.564	1.510	-3.404
C720	BUTYL BENZYL PHTHALATE	0.754	0.665	-11.823
C725	3,3'-DICHLOROBENZIDINE	0.331	0.101	-69.527
C730	BENZO(A)ANTHRACENE	1.544	1.343	-13.010
C745	BIS(2-ETHYLHEXYL)PHTHA	1.033	0.889	-13.960
C740	CHRYSENE	1.069	1.010	-5.483
C760	DI-N-OCTYL PHTHALATE	1.954	1.829	-6.393
C765	BENZO(B)FLUORANTHENE	1.550	1.717	10.818
C770	BENZO(K)FLUORANTHENE	1.301	1.246	-4.273
C775	BENZO(A)PYRENE	1.215	1.211	-0.272
C780	INDENO(1,2,3-CD)PYRENE	1.256	1.347	7.270
C785	DIBENZO(A,H)ANTHRACENE	1.012	1.091	7.786
C790	BENZO(GHI)PERYLENE	1.074	1.177	9.588
C310	N-NITROSODIMETHYLAMINE	0.901	0.705	-21.757
C620	1,2-DIPHENYL-HYDRAZINE	0.908	0.875	-3.641
C320	ANILINE	1.299	1.078	-17.013
CS50	2-FLUOROPHENOL ** SU1	1.320	1.496	13.332
CS45	PHENOL-D5 ** SU2 **	1.654	1.776	7.380
CS55	2,4,6-TRIBROMOPHENOL	0.110	0.131	19.411
CS20	NITROBENZENE-D5 ** SU3	0.356	0.399	11.849
CS25	2-FLUOROBIPHENYL **SU4	1.347	1.329	-1.323
CS30	TERPHENYL-D14 ** SU6	1.230	1.358	10.421
CS70	2-CHLOROPHENOL-D4 ** S	1.753	1.864	6.314
CS75	1,2-DICHLOROBENZENE-D4	0.925	0.930	0.487
C647	CARBAZOLE	0.909	0.906	-0.345
CC65	3+4-METHYLPHENOL			
A950	PYRIDINE	1.388	1.317	-5.106

011655

CHESTER LABNET DC # ---17

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4530

LAB ID. ES0405C02A

CLIENT CHESTER ANALYST SC

DATE INJECTED 04/05/93 10:07:00 VERFIED BY

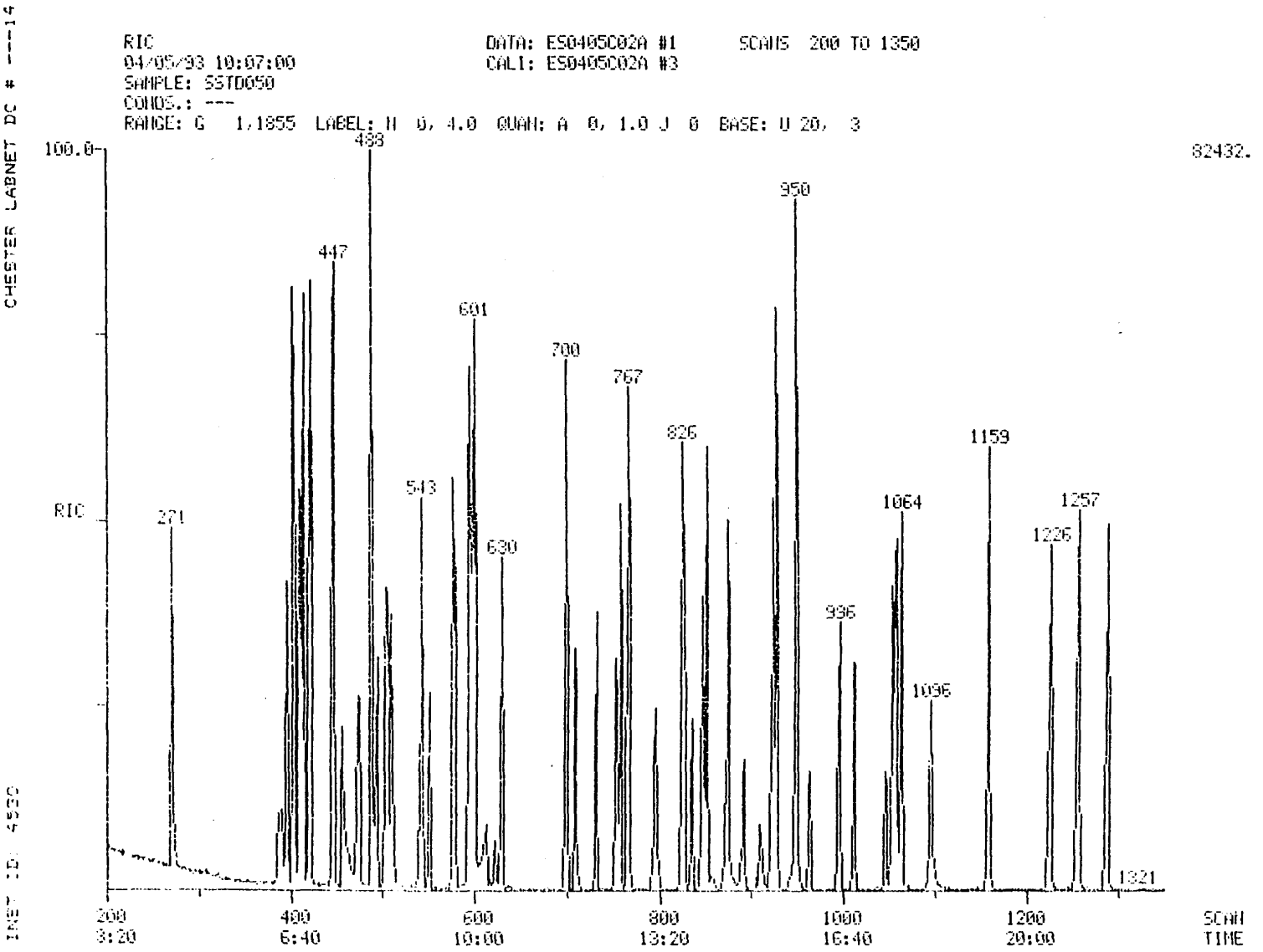
	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS1**		152	420	40	18379	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **		136	598	40	54261	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **		164	848	40	27724	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **		188	1054	40	45665	1.000	1.000
CI70	CHRYSENE-D12 ** IS5 **		240	1433	40	36853	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **		264	1625	40	31455	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **		112	271	50	34373	0.645	1.496
CS45	PHENOL-D5 ** SU2 **		99	409	50	40795	0.974	1.776
CS55	2,4,6-TRIBROMOPHENOL ** SU5 **		330	963	50	4546	1.136	0.131
CS20	NITROBENZENE-D5 ** SU3 **		82	504	50	27037	0.843	0.399
CS25	2-FLUOROBIPHENYL **SU4 **		172	758	50	46063	0.894	1.329
CS30	TERPHENYL-D14 ** SU6 **		244	1288	50	62545	0.899	1.358
C315	PHENOL	10A	94	410	50	35972	0.976	1.566
C325	BIS(2-CHLOROETHYL)ETHER	11B	93	397	50	34129	0.945	1.486
C330	2-CHLOROPHENOL	1A	128	404	50	30712	0.962	1.337
C335	1,3-DICHLOROBENZENE	21B	146	414	50	32527	0.986	1.416
C340	1,4-DICHLOROBENZENE	22B	146	422	50	34382	1.005	1.497
C345	BENZYL ALCOHOL		108	456	50	20946	1.086	0.912
C350	1,2-DICHLOROBENZENE	20B	146	447	50	32249	1.064	1.404
C355	2-METHYLPHENOL		108	487	50	29881	1.160	1.301
C357	2,2'-OXYBIS(1-CHLOROPROPANE)		45	473	50	25183	1.126	1.096
C365	4-METHYLPHENOL		108	509	50	23840	1.212	1.038
C370	N-NITROSODIPROPYLAMINE	42B	70	494	50	16412	1.176	0.714
C375	HEXACHLOROETHANE	36B	117	488	50	12583	1.162	0.548
C410	NITROBENZENE	40B	77	506	50	33699	0.846	0.497
C415	ISOPHORONE	38B	82	543	50	51576	0.908	0.760
C420	2-NITROPHENOL	6A	139	551	50	14716	0.921	0.217
C425	2,4-DIMETHYLPHENOL	3A	107	577	50	18858	0.965	0.278
C430	BENZOIC ACID		122	614	50	12455	1.027	0.184
C435	BIS(2-CHLOROETHOXY)METHANE	10B	93	580	50	29320	0.970	0.432
C440	2,4-DICHLOROPHENOL	2A	162	596	50	18897	0.997	0.279
C445	1,2,4-TRICHLOROBENZENE	46B	180	594	50	21300	0.993	0.314
C450	NAPHTHALENE	39B	128	601	50	70943	1.005	1.046
C455	4-CHLOROANILINE		127	622	50	7668	1.040	0.113
C460	HEXACHLOROBUTADIENE	34B	225	629	50	10267	1.052	0.151
C465	P-CHLORO-M-CRESOL	8A	107	709	50	15961	1.186	0.235
C470	2-METHYLNAPHTHALENE		142	700	50	55921	1.171	0.824
C510	HEXACHLOROCYCLOPENTADIENE	35B	237	732	50	11381	0.863	0.328
C515	2,4,6-TRICHLOROPHENOL	11A	196	753	50	11907	0.888	0.344
C520	2,4,5-TRICHLOROPHENOL		196	765	50	14191	0.902	0.409
C525	2-CHLORONAPHTHALENE	16B	162	767	50	38656	0.904	1.115
C530	2-NITROANILINE		65	796	50	8855	0.939	0.256
C535	DIMETHYL PHTHALATE	25B	163	827	50	40127	0.975	1.158
C540	ACENAPHTHYLENE	2B	152	825	50	59984	0.973	1.731
C545	3-NITROANILINE		138	857	50	2864	1.011	0.083
C550	ACENAPHTHENE	1B	153	852	50	30769	1.005	0.888

CHESTER LABNET DC # ---17

SV STANDARD REPORT PAGE 2

DATAFILE ES0405C02A

	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	5A	184	871	50	5472	1.027	0.158
C560	4-NITROPHENOL	7A	109	910	50	3593	1.073	0.104
C565	DIBENZOFURAN		168	875	50	50953	1.032	1.470
C570	2,4-DINITROTOLUENE	27B	165	892	50	11934	1.052	0.344
C543	2,6-DINITROTOLUENE	28B	165	836	50	9724	0.986	0.281
C580	DIETHYL PHTHALATE	24B	149	928	50	39609	1.094	1.143
C585	4-CHLOROPHENYL PHENYL ETHER	17B	204	928	50	20546	1.094	0.593
C590	FLUORENE	32B	166	924	50	46587	1.090	1.344
C595	4-NITROANILINE		138	944	50	5268	1.113	0.152
C610	4,6-DINITRO-2-METHYLPHENOL	4A	198	949	50	8532	0.900	0.149
C615	N-NITROSODIPHENYLAMINE	43B	169	950	50	28763	0.901	0.504
C625	4-BROMOPHENYL PHENYL ETHER	14B	248	996	50	10984	0.945	0.192
C630	HEXACHLOROBENZENE	33B	284	1012	50	11853	0.960	0.208
C635	PENTACHLOROPHENOL	9A	266	1046	50	6181	0.992	0.108
C640	PHENANTHRENE	44B	178	1058	50	64066	1.004	1.122
C645	ANTHRACENE	3B	178	1064	50	60857	1.009	1.066
C650	DI-N-BUTYL PHTHALATE	26B	149	1159	50	76069	1.100	1.333
C655	FLUORANTHENE	31B	202	1226	50	68299	1.163	1.197
C715	PYRENE	45B	202	1257	50	69583	0.877	1.510
C720	BUTYL BENZYL PHTHALATE	15B	149	1370	50	30635	0.956	0.665
C725	3,3'-DICHLOROBENZIDINE	23B	252	1436	50	4637	1.002	0.101
C730	BENZO(A)ANTHRACENE	5B	228	1431	50	61884	0.999	1.343
C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B	149	1459	50	40944	1.018	0.889
C740	CHRYSENE	18B	228	1437	50	46528	1.003	1.010
C760	DI-N-OCTYL PHTHALATE	29B	149	1544	50	71908	0.950	1.829
C765	BENZO(B)FLUORANTHENE	7B	252	1578	50	67518	0.971	1.717
C770	BENZO(K)FLUORANTHENE	9B	252	1581	50	48983	0.973	1.246
C775	BENZO(A)PYRENE	6B	252	1617	50	47624	0.995	1.211
C780	INDENO(1,2,3-CD)PYRENE	37B	276	1767	50	52961	1.087	1.347
C785	DIBENZO(A,H)ANTHRACENE	19B	278	1771	50	42880	1.090	1.091
C790	BENZO(GHI)PERYLENE	8B	276	1807	50	46296	1.112	1.177
C310	N-NITROSODIMETHYLAMINE	41B	74	121	50	16199	0.288	0.705
C710	BENZIDINE	4B						
CS70	2-CHLOROPHENOL-D4 ** SU7 **		132	402	50	42821	0.957	1.864
CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **		152	445	50	21363	1.060	0.930
C647	CARBAZOLE		167	1096	50	51729	1.040	0.906
C320	ANILINE		93	390	50	24756	0.929	1.078
C620	1,2-DIPHENYL-HYDRAZINE	30B	77	950	50	49963	0.901	0.875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04/05/93 10:07:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1.1855 LABEL: H 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: ES0405C02A #1
CALI: ES0405C02A #3
SCANS 200 TO 1350
82432.
100.0
RIC
271
447
493
543
601
630
700
767
826
950
936
1064
1096
1159
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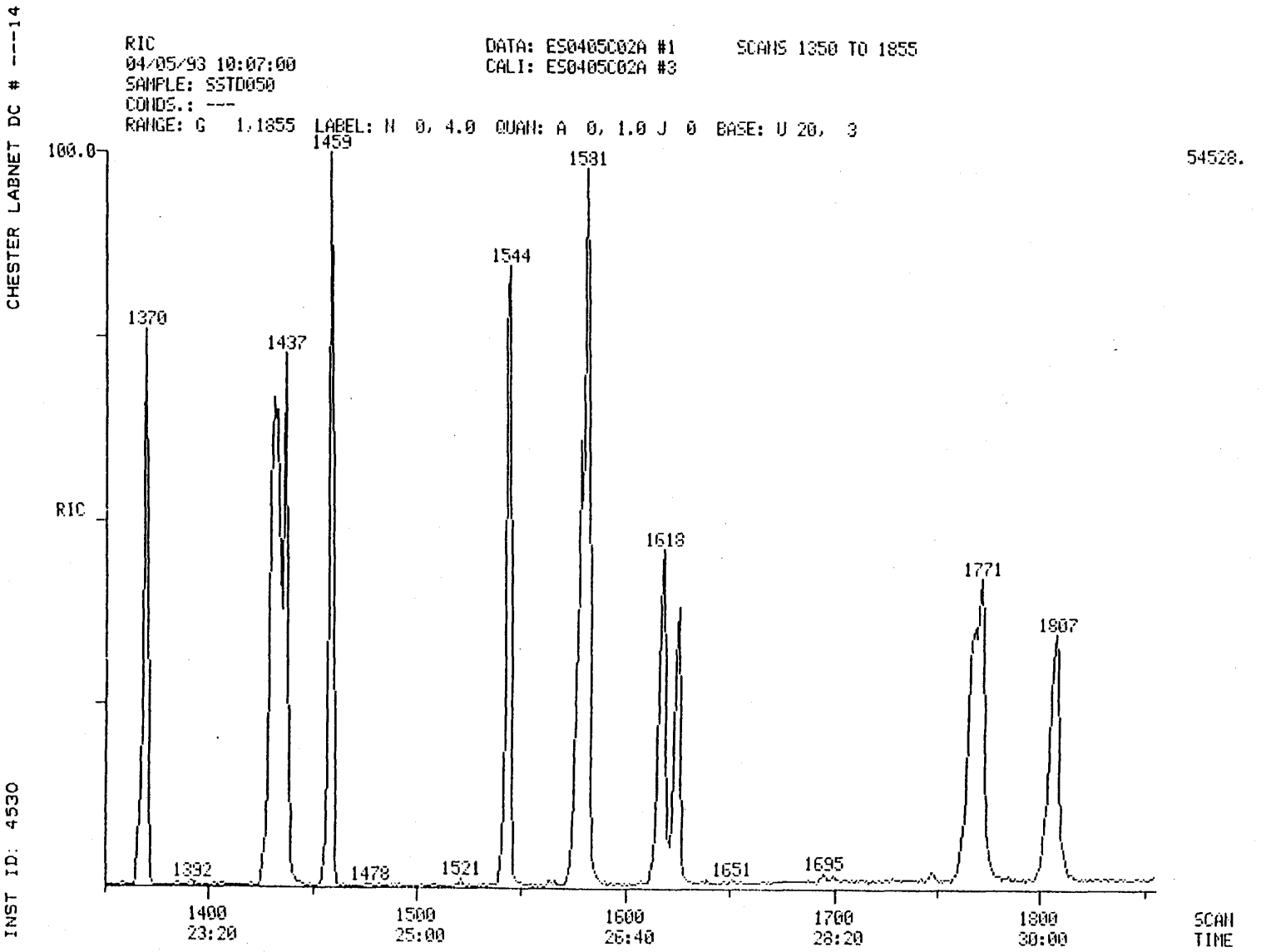
20:00
SCAN
TIME

011658



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Quantitation Report File: ES0405C02A

Data: ES0405C02A.TI
04/05/93 10:07:00
Sample: SSTD050
Conds.: ---
Formula: 04/01/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: SC Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1**	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL **SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

011661

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	420	7:00	1	1.000	A BB	18379.	40.000 UG/L	0.97
2	136	598	9:58	2	1.000	A BB	54261.	40.000 UG/L	0.97
3	164	848	14:08	3	1.000	A BB	27724.	40.000 UG/L	0.97
4	188	1054	17:34	4	1.000	A BV	45665.	40.000 UG/L	0.97
5	240	1433	23:53	5	1.000	A BB	36853.	40.000 UG/L	0.97
6	264	1625	27:05	6	1.000	A BB	31455.	40.000 UG/L	0.97
7	112	271	4:31	1	0.645	A BB	34373.	50.000 UG/L	1.21
8	99	409	6:49	1	0.974	A VV	40795.	50.000 UG/L	1.21
9	330	963	16:03	3	1.136	A BB	4546.	50.000 UG/L	1.21
10	82	504	8:24	2	0.843	A BB	27037.	50.000 UG/L	1.21
11	172	758	12:38	3	0.894	A BB	46063.	50.000 UG/L	1.21
12	244	1288	21:28	5	0.899	A BB	62545.	50.000 UG/L	1.21
13	94	410	6:50	1	0.976	A BB	35972.	50.000 UG/L	1.21
14	93	397	6:37	1	0.945	A VV	34129.	50.000 UG/L	1.21
15	128	404	6:44	1	0.962	A BB	30712.	50.000 UG/L	1.21
16	146	414	6:54	1	0.986	A BB	32527.	50.000 UG/L	1.21
17	146	422	7:02	1	1.005	A BB	34382.	50.000 UG/L	1.21
18	108	456	7:36	1	1.086	A BB	20946.	50.000 UG/L	1.21
19	146	447	7:27	1	1.064	A BB	32249.	50.000 UG/L	1.21
20	108	487	8:07	1	1.160	A BB	29881.	50.000 UG/L	1.21
21	45	473	7:53	1	1.126	A BB	25183.	50.000 UG/L	1.21
22	108	509	8:29	1	1.212	A BB	23840.	50.000 UG/L	1.21
23	70	494	8:14	1	1.176	A BB	16412.	50.000 UG/L	1.21
24	117	488	8:08	1	1.162	A BB	12583.	50.000 UG/L	1.21
25	77	506	8:26	2	0.846	A BB	33699.	50.000 UG/L	1.21
26	82	543	9:03	2	0.908	A BB	51576.	50.000 UG/L	1.21
27	139	551	9:11	2	0.921	A BB	14716.	50.000 UG/L	1.21
28	107	577	9:37	2	0.965	A BB	18858.	50.000 UG/L	1.21
29	122	614	10:14	2	1.027	A BB	12455.	50.000 UG/L	1.21
30	93	580	9:40	2	0.970	A BB	29320.	50.000 UG/L	1.21
31	162	596	9:56	2	0.997	A BB	18897.	50.000 UG/L	1.21
32	180	594	9:54	2	0.993	A BB	21300.	50.000 UG/L	1.21
33	128	601	10:01	2	1.005	A BB	70943.	50.000 UG/L	1.21
34	127	622	10:22	2	1.040	A BV	7668.	50.000 UG/L	1.21
35	225	629	10:29	2	1.052	A BB	10267.	50.000 UG/L	1.21
36	107	709	11:49	2	1.186	A BB	15961.	50.000 UG/L	1.21
37	142	700	11:40	2	1.171	A BB	55921.	50.000 UG/L	1.21
38	237	732	12:12	3	0.863	A BB	11381.	50.000 UG/L	1.21
39	196	753	12:33	3	0.888	A BB	11907.	50.000 UG/L	1.21
40	196	765	12:45	3	0.902	A BB	14191.	50.000 UG/L	1.21
41	162	767	12:47	3	0.904	A BB	38656.	50.000 UG/L	1.21
42	65	796	13:16	3	0.939	A BB	8855.	50.000 UG/L	1.21
43	163	827	13:47	3	0.975	A BB	40127.	50.000 UG/L	1.21
44	152	825	13:45	3	0.973	A BB	59984.	50.000 UG/L	1.21
45	138	857	14:17	3	1.011	A BB	2864.	50.000 UG/L	1.21
46	153	852	14:12	3	1.005	A BB	30769.	50.000 UG/L	1.21
47	184	871	14:31	3	1.027	A BB	5472.	50.000 UG/L	1.21
48	109	910	15:10	3	1.073	A BB	3593.	50.000 UG/L	1.21
49	168	875	14:35	3	1.032	A BB	50953.	50.000 UG/L	1.21
50	165	892	14:52	3	1.052	A BB	11934.	50.000 UG/L	1.21

011662

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	9:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:53	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:31	1.00	0.645	1.00	50.00	50.00	1.496	1.496	1.00
8	6:49	1.00	0.974	1.00	50.00	50.00	1.776	1.776	1.00
9	16:03	1.00	1.136	1.00	50.00	50.00	0.131	0.131	1.00
10	8:24	1.00	0.843	1.00	50.00	50.00	0.399	0.399	1.00
11	12:38	1.00	0.894	1.00	50.00	50.00	1.329	1.329	1.00
12	21:28	1.00	0.899	1.00	50.00	50.00	1.358	1.358	1.00
13	6:50	1.00	0.976	1.00	50.00	50.00	1.566	1.566	1.00
14	6:37	1.00	0.945	1.00	50.00	50.00	1.486	1.486	1.00
15	6:44	1.00	0.962	1.00	50.00	50.00	1.337	1.337	1.00
16	6:54	1.00	0.986	1.00	50.00	50.00	1.416	1.416	1.00
17	7:02	1.00	1.005	1.00	50.00	50.00	1.497	1.497	1.00
18	7:36	1.00	1.086	1.00	50.00	50.00	0.912	0.912	1.00
19	7:27	1.00	1.064	1.00	50.00	50.00	1.404	1.404	1.00
20	8:07	1.00	1.160	1.00	50.00	50.00	1.301	1.301	1.00
21	7:53	1.00	1.126	1.00	50.00	50.00	1.096	1.096	1.00
22	8:29	1.00	1.212	1.00	50.00	50.00	1.038	1.038	1.00
23	8:14	1.00	1.176	1.00	50.00	50.00	0.714	0.714	1.00
24	8:08	1.00	1.162	1.00	50.00	50.00	0.548	0.548	1.00
25	8:26	1.00	0.846	1.00	50.00	50.00	0.497	0.497	1.00
26	9:03	1.00	0.908	1.00	50.00	50.00	0.760	0.760	1.00
27	9:11	1.00	0.921	1.00	50.00	50.00	0.217	0.217	1.00
28	9:37	1.00	0.965	1.00	50.00	50.00	0.278	0.278	1.00
29	10:14	1.00	1.027	1.00	50.00	50.00	0.184	0.184	1.00
30	9:40	1.00	0.970	1.00	50.00	50.00	0.432	0.432	1.00
31	9:56	1.00	0.997	1.00	50.00	50.00	0.279	0.279	1.00
32	9:54	1.00	0.993	1.00	50.00	50.00	0.314	0.314	1.00
33	10:01	1.00	1.005	1.00	50.00	50.00	1.046	1.046	1.00
34	10:22	1.00	1.040	1.00	50.00	50.00	0.113	0.113	1.00
35	10:29	1.00	1.052	1.00	50.00	50.00	0.151	0.151	1.00
36	11:49	1.00	1.186	1.00	50.00	50.00	0.235	0.235	1.00
37	11:40	1.00	1.171	1.00	50.00	50.00	0.824	0.824	1.00
38	12:12	1.00	0.863	1.00	50.00	50.00	0.328	0.328	1.00
39	12:33	1.00	0.888	1.00	50.00	50.00	0.344	0.344	1.00
40	12:45	1.00	0.902	1.00	50.00	50.00	0.409	0.409	1.00
41	12:47	1.00	0.904	1.00	50.00	50.00	1.115	1.115	1.00
42	13:16	1.00	0.939	1.00	50.00	50.00	0.256	0.256	1.00
43	13:47	1.00	0.975	1.00	50.00	50.00	1.158	1.158	1.00
44	13:45	1.00	0.973	1.00	50.00	50.00	1.731	1.731	1.00
45	14:17	1.00	1.011	1.00	50.00	50.00	0.083	0.083	1.00
46	14:12	1.00	1.005	1.00	50.00	50.00	0.888	0.888	1.00
47	14:31	1.00	1.027	1.00	50.00	50.00	0.158	0.158	1.00
48	15:10	1.00	1.073	1.00	50.00	50.00	0.104	0.104	1.00
49	14:35	1.00	1.032	1.00	50.00	50.00	1.470	1.470	1.00
50	14:52	1.00	1.052	1.00	50.00	50.00	0.344	0.344	1.00

011663

Quantitation Report File: ES0405C02A

Data: ES0405C02A.TI
04/05/93 10:07:00
Sample: SSTD050
Conds.: ---
Formula: 04/01/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: SC Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	CS70	2-CHLOROPHENOL-D4 ** SU7 **	
80	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	
81	C647	CARBAZOLE	
82	C320	ANILINE	
83	A950	PYRIDINE	
84	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	836	13:56	3	0.986	A BB	9724.	50.000 UG/L	1.21
52	149	928	15:28	3	1.094	A BB	39609.	50.000 UG/L	1.21
53	204	928	15:28	3	1.094	A BB	20546.	50.000 UG/L	1.21
54	166	924	15:24	3	1.090	A BB	46587.	50.000 UG/L	1.21
55	138	944	15:44	3	1.113	A BB	5268.	50.000 UG/L	1.21
56	198	949	15:49	4	0.900	A BB	8532.	50.000 UG/L	1.21
57	169	950	15:50	4	0.901	A BB	28763.	50.000 UG/L	1.21
58	248	996	16:36	4	0.945	A BB	10984.	50.000 UG/L	1.21
59	284	1012	16:52	4	0.960	A BB	11853.	50.000 UG/L	1.21

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
60	266	1046	17:26	4	0.992	A BB	6181.	50.000 UG/L	1.21
61	178	1058	17:38	4	1.004	A BV	64066.	50.000 UG/L	1.21
62	178	1064	17:44	4	1.009	A VB	60857.	50.000 UG/L	1.21
63	149	1159	19:19	4	1.100	A BB	76069.	50.000 UG/L	1.21
64	202	1226	20:26	4	1.163	A BB	68299.	50.000 UG/L	1.21
65	202	1257	20:57	5	0.877	A BB	69583.	50.000 UG/L	1.21
66	149	1370	22:50	5	0.956	A BB	30635.	50.000 UG/L	1.21
67	252	1436	23:56	5	1.002	A BB	4637.	50.000 UG/L	1.21
68	228	1431	23:51	5	0.999	A BV	61884.	50.000 UG/L	1.21
69	149	1459	24:19	5	1.018	A BB	40944.	50.000 UG/L	1.21
70	228	1437	23:57	5	1.003	A VB	46528.	50.000 UG/L	1.21
71	149	1544	25:44	6	0.950	A BB	71908.	50.000 UG/L	1.21
72	252	1578	26:18	6	0.971	M XX	67518.	50.000 UG/L	1.21
73	252	1581	26:21	6	0.973	M XX	48983.	50.000 UG/L	1.21
74	252	1617	26:57	6	0.995	A BB	47624.	50.000 UG/L	1.21
75	276	1767	29:27	6	1.087	A BB	52961.	50.000 UG/L	1.21
76	278	1771	29:31	6	1.090	A BB	42880.	50.000 UG/L	1.21
77	276	1807	30:07	6	1.112	A BB	46296.	50.000 UG/L	1.21
78	74	121	2:01	1	0.288	A BB	16199.	50.000 UG/L	1.21
79	132	402	6:42	1	0.957	A BB	42821.	50.000 UG/L	1.21
80	152	445	7:25	1	1.060	A BB	21363.	50.000 UG/L	1.21
81	167	1096	18:16	4	1.040	A BB	51729.	50.000 UG/L	1.21
82	93	390	6:30	1	0.929	M XX	24756.	50.000 UG/L	1.21
83	79	121	2:01	1	0.288	M XX	30252.	50.000 UG/L	1.21
84	77	950	15:50	4	0.901	M XX	49963.	50.000 UG/L	1.21

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	13:56	1.00	0.986	1.00	50.00	50.00	0.281	0.281	1.00
52	15:28	1.00	1.094	1.00	50.00	50.00	1.143	1.143	1.00
53	15:28	1.00	1.094	1.00	50.00	50.00	0.593	0.593	1.00
54	15:24	1.00	1.090	1.00	50.00	50.00	1.344	1.344	1.00
55	15:44	1.00	1.113	1.00	50.00	50.00	0.152	0.152	1.00
56	15:49	1.00	0.900	1.00	50.00	50.00	0.149	0.149	1.00
57	15:50	1.00	0.901	1.00	50.00	50.00	0.504	0.504	1.00
58	16:36	1.00	0.945	1.00	50.00	50.00	0.192	0.192	1.00
59	16:52	1.00	0.960	1.00	50.00	50.00	0.208	0.208	1.00
60	17:26	1.00	0.992	1.00	50.00	50.00	0.108	0.108	1.00
61	17:38	1.00	1.004	1.00	50.00	50.00	1.122	1.122	1.00
62	17:44	1.00	1.009	1.00	50.00	50.00	1.066	1.066	1.00
63	19:19	1.00	1.100	1.00	50.00	50.00	1.333	1.333	1.00
64	20:26	1.00	1.163	1.00	50.00	50.00	1.197	1.197	1.00
65	20:57	1.00	0.877	1.00	50.00	50.00	1.510	1.510	1.00
66	22:50	1.00	0.956	1.00	50.00	50.00	0.665	0.665	1.00
67	23:56	1.00	1.002	1.00	50.00	50.00	0.101	0.101	1.00
68	23:51	1.00	0.999	1.00	50.00	50.00	1.343	1.343	1.00
69	24:19	1.00	1.018	1.00	50.00	50.00	0.889	0.889	1.00
70	23:57	1.00	1.003	1.00	50.00	50.00	1.010	1.010	1.00
71	25:44	1.00	0.950	1.00	50.00	50.00	1.829	1.829	1.00
72	26:18	1.00	0.971	1.00	50.00	50.00	1.717	1.717	1.00
73	26:21	1.00	0.973	1.00	50.00	50.00	1.246	1.246	1.00
74	26:57	1.00	0.995	1.00	50.00	50.00	1.211	1.211	1.00
75	29:27	1.00	1.087	1.00	50.00	50.00	1.347	1.347	1.00
76	29:31	1.00	1.090	1.00	50.00	50.00	1.091	1.091	1.00
77	30:07	1.00	1.112	1.00	50.00	50.00	1.177	1.177	1.00
78	2:01	1.00	0.288	1.00	50.00	50.00	0.705	0.705	1.00
79	6:42	1.00	0.957	1.00	50.00	50.00	1.864	1.864	1.00

011665

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
80	7:25	1.00	1.060	1.00	50.00	50.00	0.930	0.930	1.00
81	18:16	1.00	1.040	1.00	50.00	50.00	0.906	0.906	1.00
82	6:30	1.00	0.929	1.00	50.00	50.00	1.078	1.078	1.00
83	2:01	1.00	0.288	1.00	50.00	50.00	1.317	1.317	1.00
84	15:50	1.00	0.901	1.00	50.00	50.00	0.875	0.875	1.00

INST ID: 4530 SAMPLE NUMBER: SBLK (LLS)

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930327001 QC REPORT NO.: 04/01/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: KG DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4B03270C01
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011667

INST ID: 4530 SAMPLE NUMBER: SBLK (LLS)

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 930327001 QC REPORT NO.: 04/01/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: DATE SAMPLE RECEIVED:

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4B03270C01
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	330 U	
C540	ACENAPHTHYLENE	330 U	
C550	ACENAPHTHENE	330 U	
C590	FLUORENE	330 U	
C640	PHENANTHRENE	330 U	
C645	ANTHRACENE	330 U	
C655	FLUORANTHENE	330 U	
C715	PYRENE	330 U	
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	
C790	BENZO(GHI)PERYLENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

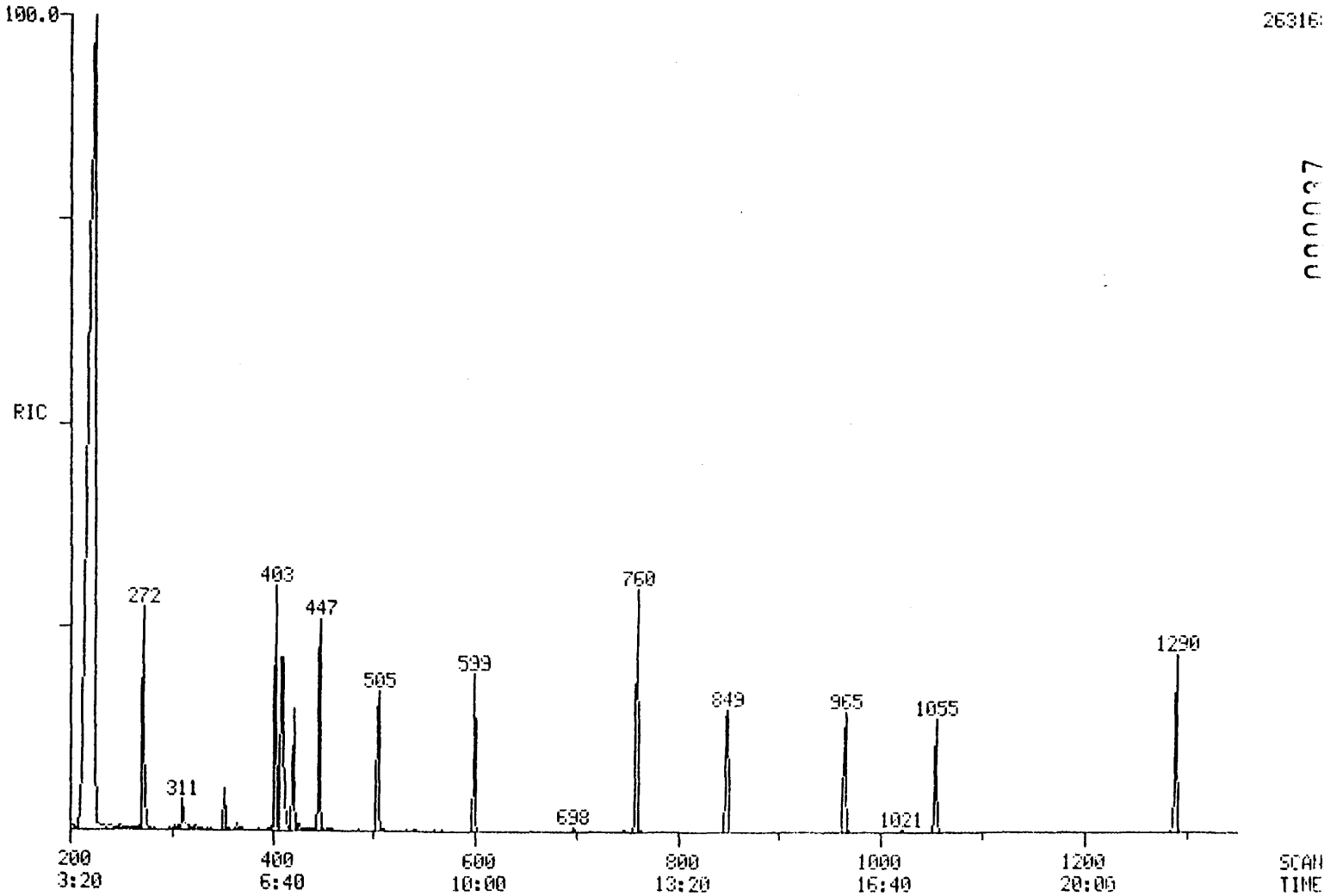
CHESTER LABNET DC # ---14

RIC
04/05/93 14:06:00
SAMPLE: SBLK (LLS)
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4B03270C01 #1
CALI: 4B03270C01 #3

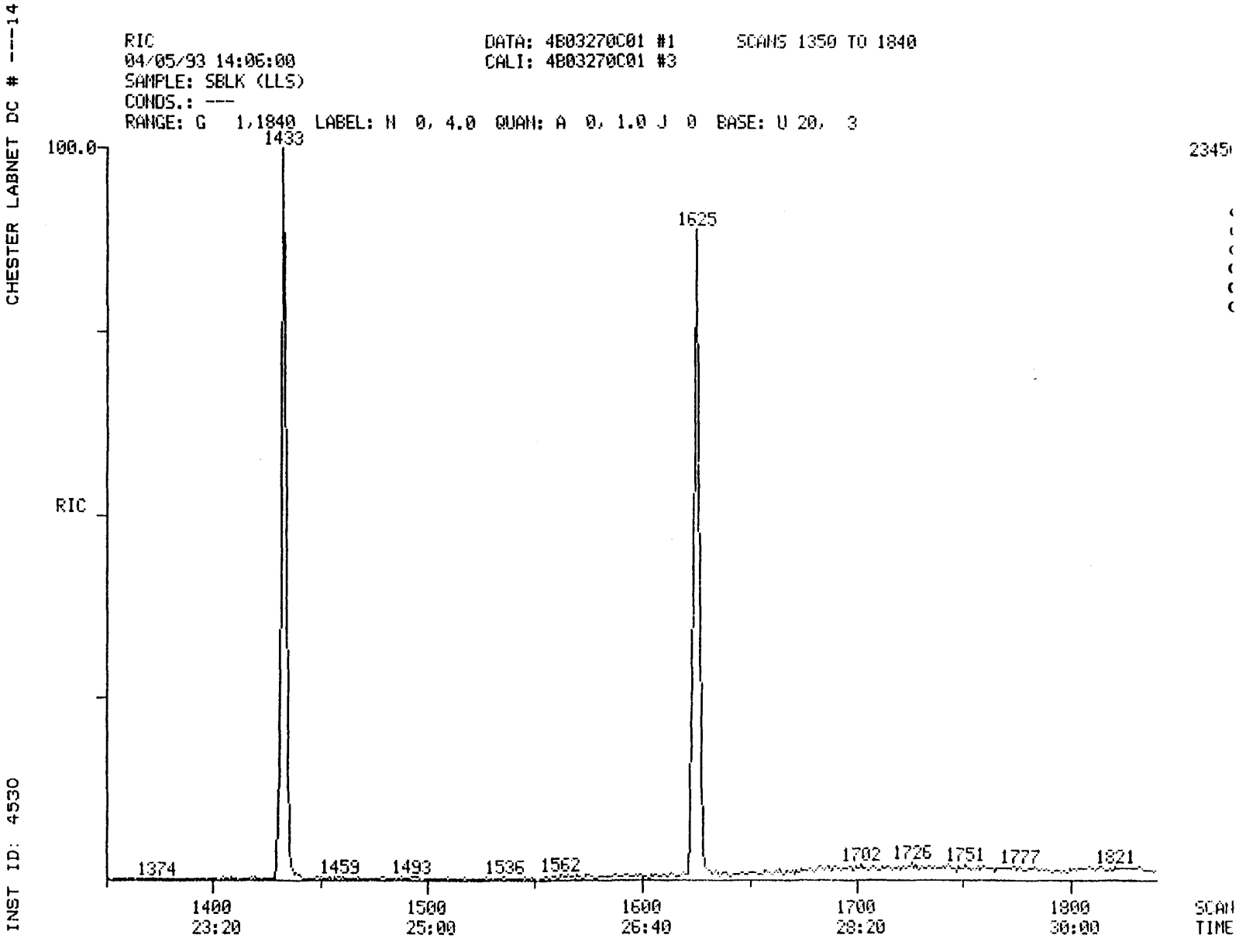
SCANS 200 TO 1350

26316



INST ID: 4530

011668


CHESTER LABNET DC # ---14
INST ID: 4530
RIC
04/05/93 14:06:00
SAMPLE: SBLK (LLS)
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 4B03270C01 #1
CALI: 4B03270C01 #3
SCANS 1350 TO 1840
100.0
RIC
1433
1625
1374
1459
1493
1536
1562
1702
1726
1751
1777
1821
1400
23:20
1500
25:00
1600
26:40
1700
28:20
1800
30:00
SCAN
TIME

011669

CHESTER LABNET DC # ---14

SEMIVOLATILE SOIL REPORT

011670

SAMPLE ID.	SBLK (LLS)		
FILENAME	4B03270C01	INST ID.	4530
CLIENT	CHESTER	ANALYST	SC
DATE INJECTED	04/05/93 14:06:00	VERIFIED BY	
CALIB STD DATE	04/01/93	CORR. FACTOR	33.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	ARE
421	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	660 UG/KG	1.000	135
599	CI40	NAPHTHALENE-D8 ** IS2 **	136	660 UG/KG	1.000	55E
848	CI50	ACENAPHTHENE-D10 ** IS3 **	164	660 UG/KG	1.000	314
1055	CI60	PHENANTHRENE-D10 ** IS4 **	188	660 UG/KG	1.000	421
1433	CI70	CHRYSENE-D12 ** IS5 **	240	660 UG/KG	1.000	32C
1625	CI75	PERYLENE-D12 ** IS6 **	264	660 UG/KG	1.000	31E
272	CS50	2-FLUOROPHENOL ** SU1 **	112	69 %	0.646	534
409	CS45	PHENOL-D5 ** SU2 **	99	84 %	0.971	77E
964	CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	76 %	1.137	116
403	CS70	2-CHLOROPHENOL-D4 ** SU7 **	132	55 %	0.957	519
447	CS75	1,2-DICHLOROBENZENE-D4 ** SU	152	83 %	1.062	261
505	CS20	NITROBENZENE-D5 ** SU3 **	82	63 %	0.843	352
759	CS25	2-FLUOROBIPHENYL **SU4 **	172	76 %	0.895	792
1290	CS30	TERPHENYL-D14 ** SU6 **	244	69 %	0.900	749

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	--	Laboratory:	CHESTER	Contract:	---
Inst ID:	4530	Sens Date:	04/05/93	Sens Time:	9:06:00
Lab ID:	ES0405C01A	Cali Date:	04/01/93	Analyst:	SC

Data release authorized by: Sheila Cheng

M/E	Ion Abundance Criteria	Spec # 354	
51	30 to 60% of mass 198	41.47	
68	less than 2% of mass 69	0.00	(0.00) 1
69	mass 69 relative abundance	37.96	
70	less than 2% of mass 69	0.00	(0.00) 1
127	40 TO 60% of mass 198	41.61	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	7.21	
275	10 TO 30% of mass 198	25.47	
365	greater than 1% of mass 198	5.55	
441	less than mass 443	6.66	
442	greater than 40% of mass 198	50.81	
443	17 TO 23% of mass 442	8.86	(17.45) 2

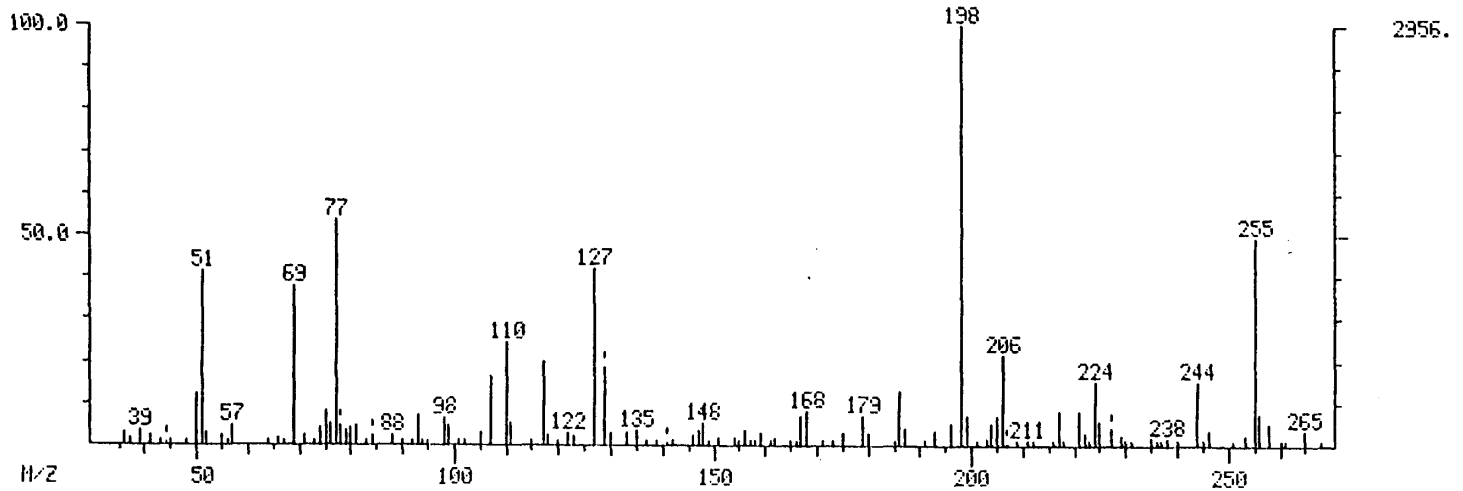
1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

CHESTER LABNET DC # ---15

MASS SPECTRUM
04/05/93 9:06:00 + 5:55
SAMPLE: DFTPP
CONDS.: ---
#354 TO #356 SUMMED - #343

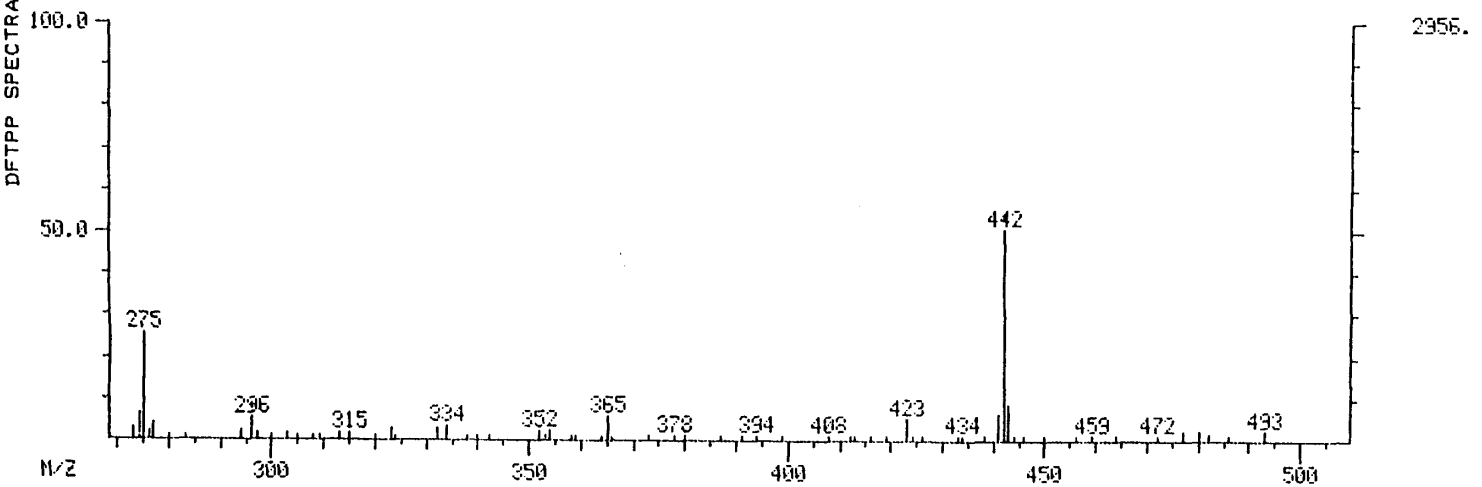
DATA: ES0405C01A #355
CALI: ES0405C01A #3

BASE M/Z: 198
RIC: 29024.



DFTPP SPECTRA

INST ID: 4530



011672

011672

011673

INST ID: 4530 CHESTER LABNET DC # ---15

DFTPP MASS LISTING

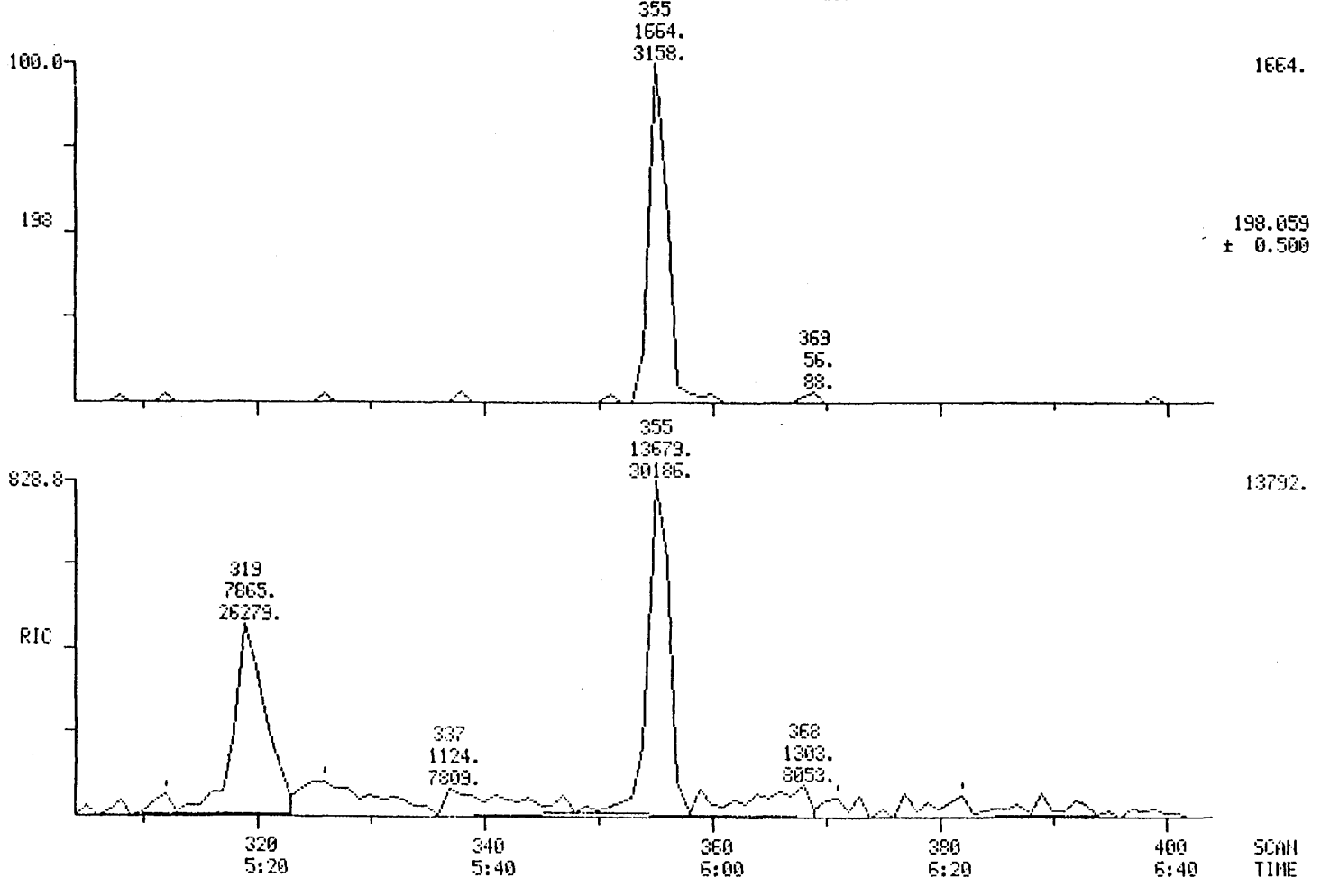
Mass List Data: ES0405C01A # 355 Base m/z: 198
04/05/93 9:06:00 + 5:55 Cali: ES0405C01A # 3 RIC: 29024.
Sample: DFTPP
Conds.: ---
#354 to #356 summed - #343

36		0.00	0.	Minima	Min Inten:	45.
493				Maxima #	0	
Mass		% RA	Inten.	Mass	% RA	Inten.
36.00?		2.88	85.	187.00	3.96	117.
37.00?		1.86	55.	193.00	3.65	108.
39.00?		3.62	107.	196.00	5.38	159.
41.00		2.23	66.	198.00	100.00	2956.
50.00		12.18	360.	199.00	7.21	213.
51.00		41.47	1226.	203.00	1.59	47.
52.00		2.98	88.	204.00	5.11	151.
55.00		2.44	72.	205.00	7.21	213.
57.00		4.43	131.	206.00	21.68	641.
66.00		1.62	48.	217.00	7.92	234.
69.00		37.96	1122.	221.00	8.25	244.
71.00		2.54	75.	222.00	2.71	80.
74.00		4.13	122.	224.00	15.02	444.
75.00		8.22	243.	225.00	5.65	167.
76.00		5.35	158.	227.00	S 4.16	123.
77.00		53.32	1576.	229.00	2.23	66.
78.00	S	4.50	133.	238.00	1.79	53.
79.00		3.32	98.	244.00	15.32	453.
80.00		3.92	116.	246.00	3.65	108.
81.00		4.40	130.	253.00	2.47	73.
84.00	S	2.47	73.	255.00	49.46	1462.
88.00		2.57	76.	256.00	7.78	230.
93.00		6.80	201.	258.00	4.97	147.
98.00		6.56	194.	265.00	3.48	103.
99.00		4.47	132.	273.00	2.88	85.
105.00		3.11	92.	274.00	6.33	187.
107.00		16.51	488.	275.00	25.47	753.
110.00		24.15	714.	276.00	2.44	72.
111.00		5.04	149.	277.00	3.79	112.
117.00		19.76	584.	294.00	2.23	66.
118.00		2.60	77.	296.00	S 5.48	162.
122.00		2.67	79.	297.00	1.56	46.
123.00		2.44	72.	303.00	2.00	59.
127.00		41.61	1230.	313.00	1.59	47.
129.00	S	18.44	545.	315.00	1.66	49.
130.00		2.91	86.	323.00	2.81	83.
133.00		2.64	78.	332.00	2.71	80.
135.00		3.76	111.	334.00	3.48	103.
146.00		2.57	76.	352.00	2.50	74.
147.00		3.28	97.	354.00	2.47	73.
148.00	S	5.07	150.	365.00	5.55	164.
156.00		3.52	104.	423.00	5.24	155.
159.00		2.84	84.	441.00	6.66	197.
162.00		1.62	48.	442.00	S 50.81	1502.
167.00		6.70	198.	443.00	8.86	262.
168.00		8.15	241.	477.00?	2.40	71.
175.00		2.81	83.	480.00?	2.40	71.
179.00		6.90	204.	482.00?	1.56	46.
180.00		2.71	80.	493.00?	2.47	73.
186.00		12.99	384.			

011673

RIC+MASS CHROMATOGRAM
04/05/93 9:06:00
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 304, 404 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3

DATA: ES0405C01A #354 SCANS 304 TO 404
CALI: ES0405C01A #3



011674

011674

011675

Chester LabNet

LOW LEVEL SV SOLID EXTRACTION FORM

Chester Lab. No.. 8493-03-222

4/2

Client: Kames & Moore

DASH NO.	SAMPLE NO.	SAMPLE WEIGHT	SURR. NO. & DATE	SURR. VOLUME	SPIKE NO. & DATE	VOL. OF SURR.	DATE/ TIME	ANAL.
001	Lab Blank	30g	6225D 3/15/93	.5ml			3/31/93	[illegible]
002	SC-TW3-6 (DWC)A							
003	SC-WS(C1,C2)B							
004	SC-WS(SD)B							
005	SC-WS(MCD)B							
		Nothing Follows						

DASH NO.	COMMENTS	GPC CLEAN DATE	ANAL.	Vf
001				JL ~~5~~ 1.0
002				
003				
004				3.0 ~~1.5~~
005				JL 1.0
	Nothing Follows			

Conc. 3/31/93 ES

Temp. 76°C

Solvent Lot# [illegible]

Report Date: 4-1-93 JL

Nitrogen Blowdown: 4-1-93

Low Level SV Ext. (09/91) REVISED

000044

011675

30-MAR-1993

011676

PRIORITY

KEYSTONE LAB - HOUSTON
Job Summary Sheet

Produced on 30-MAR-1993

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-03.270
Due Date : 2-APR-1993
Date Rec'd : 30-MAR-1993
Project ID :
P.O. Number: 18804

Attention:

Contact: BRUCE HIKMAN

Job Description: DAMES & MOORE (RCRA)
Number of samples: 5 Sampled by: CLIENT

Job Comments: 04 RB
REQUEST DUE BY: 02/93.
SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Pnt.	Sample Matrix	Date Sampled
270-001	LAB BLANK	QA_QC	SOIL	29-MAR-93
270-002	SC-WG-6 (DWC)A	X	SOIL	29-MAR-93
270-003	SC-WB (C1/C2)B	X	SOIL	29-MAR-93
270-004	SC-WG (SD)B	X	SOIL	29-MAR-93
270-005	SC-WF (MCC)B	X	SOIL	29-MAR-93

Analysis ID	Parameter Description	Number of Analyses
DRY_WT	Dry Weight Factor	5
EXT_SC270SX	(Soil) Extraction by EPA 8270	5
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil	5

000045

011676

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of ____

Project Number 18804

Project Location South Cavalcade

Laboratory Keystone

Sampler(s) Wes Fiandt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	PSA	~~CPAH~~									TOTAL
SC-W3-6 (Dwc) A	3/24/93	X	X									
SC-W5 (C1/C2) B	3/29	X	X									
SC-W5 (SD) B	3/29	X	X									
SC-W5 (MCD) B	3/29	X	X									

Relinquished by: [signature]	Organization: D&M	Date: 3/30/93	Time 2:24	Seal Intact?
Received by: Heather J Warnowicz	Organization: CHESTER LABNET	Date: 3/30/93	Time 2:24	(Yes) No N/A
Relinquished by:	Organization:	Date: / /	Time	Seal Intact?
Received by:	Organization:	Date: / /	Time	Yes No N/A

Special Instructions / Remarks:

Delivery Method: ☒ In Person ☐ Common Carrier _____ specify ☐ Lab Courier ☐ Other _____ spec

011677

011677

011678

Report
Prepared
for

D a m e s a n d M o o r e

4601 Charlotte Park Drive
Suite 320
Charlotte, NC. 28217

Attention : BRUCE HICKMAN

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID :
P.O. NUMBER : 18804

WORK ORDER : H93-04.36
DATE RECEIVED : 5-APR-1993

SAMPLE & ANALYSIS SUMMARY

011679

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-04.36-001	LAB BLANK	2-APR-1993	SOIL
H93-04.36-002	SC-W8 (SD) E	2-APR-1993	SOIL
H93-04.36-003	SC-W8 (SSD) E	2-APR-1993	SOIL
H93-04.36-004	SC-W8 (MCD) E	2-APR-1993	SOIL
H93-04.36-005	SC-W8 (C1/C2) E	2-APR-1993	SOIL
H93-04.36-006	SC-W7 (DWC) D	2-APR-1993	SOIL

Analysis ID	Parameter Description
DRY_WT	Dry Weight Factor
EXT_8270SX	(Soil) Extraction by EPA 8270
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil

CASE NARRATIVE

011680

SECTION I

LABORATORY:KEYSTONE HOUSTON DOC. CONT NO:

PROJECT NO.: 18804 SITE: S. CAVALCADE

LAB NO.:H93-04.36

I. RECEIPT

A. DATE: APR. 02, 1993

B. NO. OF SAMPLES: 5 SAMPLES.

C. CLIENT ID NUMBERS: SC-W8 (SD)E
SC-W8 (SSD)E
SC-W8 (MCD)E
SC-W8 (C1/C2)E
SC-W7 (DWC) D

D. SAMPLE TYPE: Soils

E. ANALYSIS REQUESTED: cPAH (8270)
Grain Size (D-422)

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: At the request of Dames & Moore (2) data sheets provided per sample in each Work Order. First Organics Analysis Data Sheet contains cPAH follow with Full PAH LISTING.
Quanitation Data sheet will give complete PAH amounts.

I. COMMENTS: The Report for Grain Size by ASTM (D-422) will follow under separate cover in order to expedite the PAH data.

According to Contract, all sample data Faxed (4/13/93) as a prelimiary to receival of Data Package.

Robert R Barrientos
Robert R. Barrientos, Project Manager

April 20, 1993
Date

000001

Keystone Lab - Houston
Soil Surrogate Recovery Summary
Keystone Work Order # H93-04.36

011681

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK	92	87	87	91	88	69	74	89
SC-W8 (SD) E	DL	DL	DL	DL	DL	DL	DL	DL
SC-W8 (SSD) E	DL	DL	DL	DL	DL	DL	DL	DL
SC-W8 (MCD) E	DL	DL	DL	DL	DL	DL	DL	DL
SC-W8 (C1/C2) E	DL	DL	DL	DL	DL	DL	DL	DL
SC-W7 (DWC) D	DL	DL	DL	DL	DL	DL	DL	DL

Surrogate Name	QC LIMITS	Surrogate Name	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	22-120	S2 (FBP) = 2-Fluorobiphenyl	30-115
S3 (TPH) = Terphenyl-d14	18-137	S4 (PHL) = Phenol-d5	24-113
S5 (2FP) = 2-Fluorophenol	25-121	S6 (TBP) = 2,4,6-Tribromophenol	19-122
S7 (2CP) = 2-Chlorophenol-d4	20-130**	S8 (DCB) = 1,2-Dichlorobenzene-d4	20-130**

0 out of 8 : outside of QC limits.

* = Values are outside of QC limits ** = Advisory QC Limits NA = Not Applicable
DL = Dilution

000002

INST ID: 4010

SAMPLE NUMBER: SC-W3 (SD) E

011682

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930403602
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: ...

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: ...4/5/93....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: ...4/6/93.....
DATE ANALYZED: 04/08/93

DATAFILE: 9U04036C02

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	270	220 J
C740	CHRYSENE	270	240 J
C765	BENZO(B)FLUORANTHENE	270	150 J
C770	BENZO(K)FLUORANTHENE	270 U	
C775	BENZO(A)PYRENE	270	100 J
C780	INDENO(1,2,3-CD)PYRENE	270	34 J
C785	DIBENZO(A,H)ANTHRACENE	270 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

INST ID: 4510 SAMPLE NUMBER: SC-W8 (SD) E

011683

ORGANICS ANALYSIS DATA SHEET -

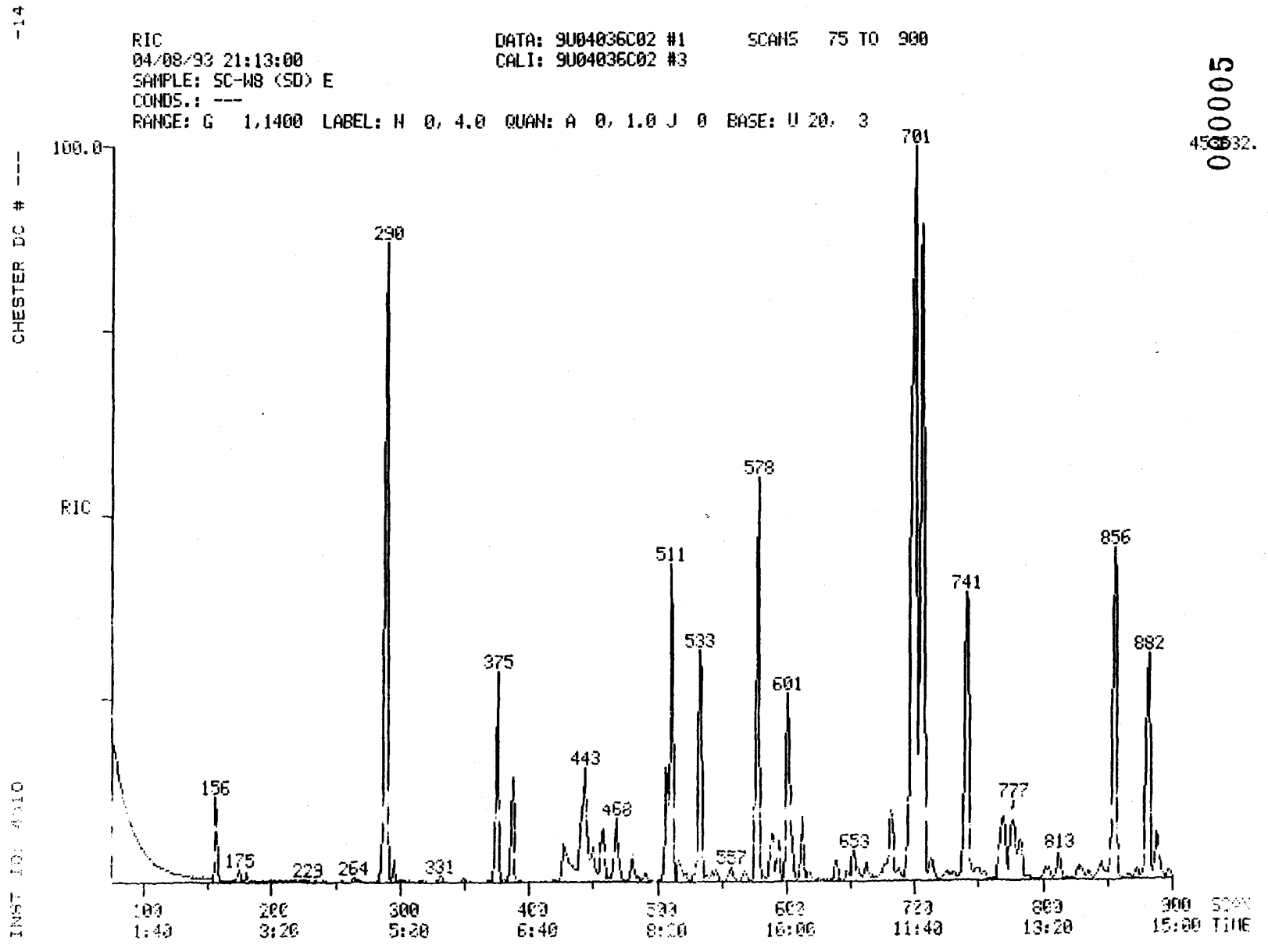
LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930403602 QC REPORT NO.: 04/08/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: Ray DATE SAMPLE RECEIVED: 4/5/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04036C02
DATE EXTRACTED: 4/6/93
DATE ANALYZED: 04/08/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	270	2900
C540	ACENAPHTHYLENE	270	37 J
C550	ACENAPHTHENE	270	1300
C590	FLUORENE	270	1800
C640	PHENANTHRENE	270	3100
C645	ANTHRACENE	270	2300
C655	FLUORANTHENE	270	1200
C715	PYRENE	270	980
C730	BENZO(A)ANTHRACENE	270	220 J
C740	CHRYSENE	270	240 J
C765	BENZO(B)FLUORANTHENE	270	150 J
C770	BENZO(K)FLUORANTHENE	270 U	
C775	BENZO(A)PYRENE	270	100 J
C780	INDENO(1,2,3-CD)PYRENE	270	34 J
C785	DIBENZO(A,H)ANTHRACENE	270 U	
C790	BENZO(GHI)PERYLENE	270	39 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



000005

011684

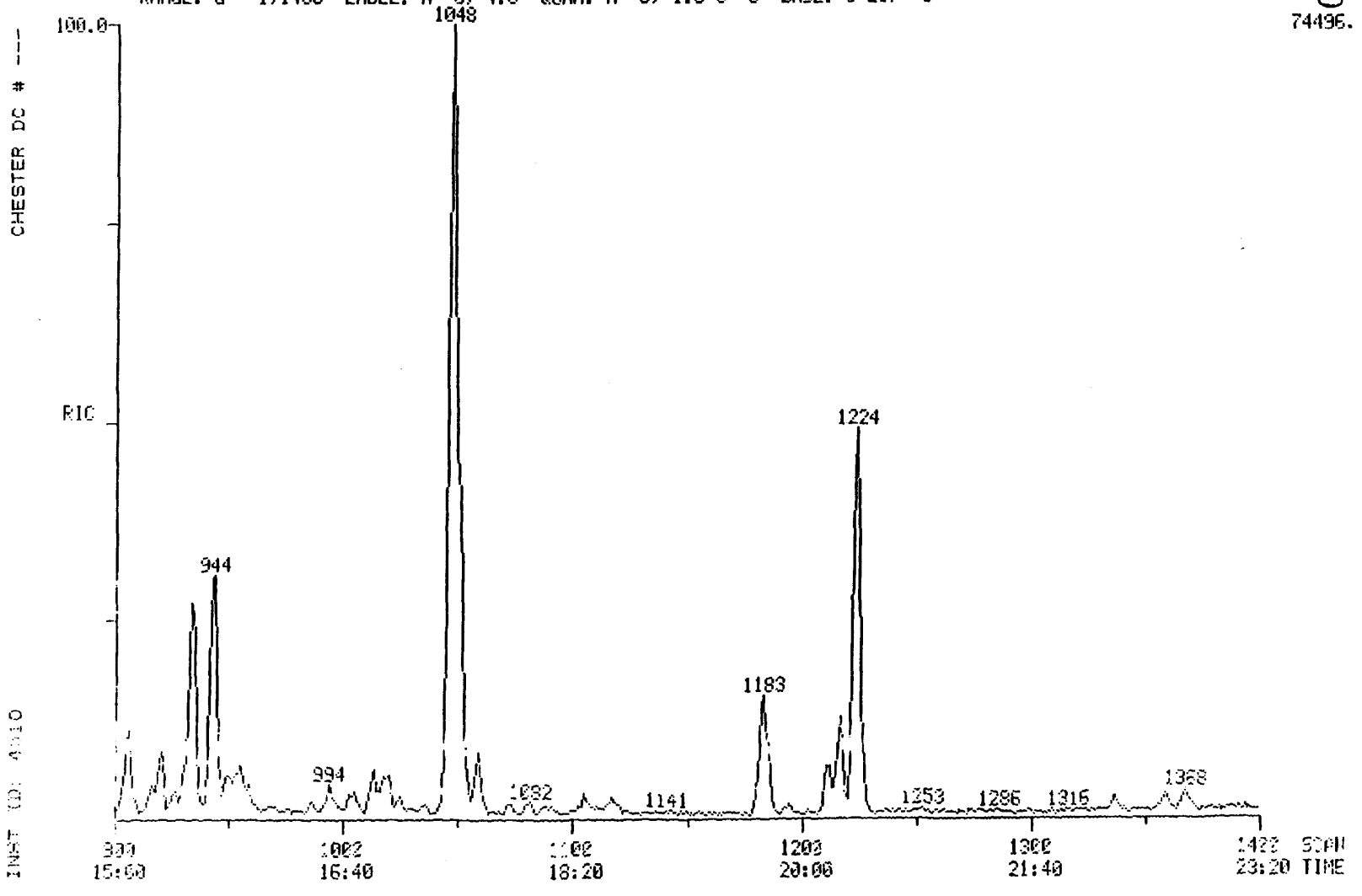
011684

-14

RIC
04/08/93 21:13:00
SAMPLE: SC-W8 (SD) E
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04036C02 #1 SCANS 900 TO 1400
CALI: 9U04036C02 #3

000006



74496.

011685

SAMPLE ID.	SC-W8 (SD) E		
FILENAME	9U04036C02	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JDD
DATE INJECTED	04/08/93 21:13:00	VERIFIED BY	
CALIB STD DATE	04/08/93	CORR. FACTOR	27.00

011686

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	AREA
156	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	540	MG/KG	1.000	1584[illegible]
287	CI40	NAPHTHALENE-D8 ** IS2 **		136	540	MG/KG	1.000	63139
507	CI50	ACENAPHTHENE-D10 ** IS3 **		164	540	MG/KG	1.000	48714
677	CI60	PHENANTHRENE-D10 ** IS4 **		188	540	MG/KG	1.000	92105
1048	CI70	CHRYSENE-D12 ** IS5 **		240	540	MG/KG	1.000	60326
1224	CI75	PERYLENE-D12 ** IS6 **		264	540	MG/KG	1.000	42127
270	C450	NAPHTHALENE	39B	128	2921	MG/KG	1.010	376242
485	C540	ACENAPHTHYLENE	2B	152	37	MG/KG	0.957	5571
511	C550	ACENAPHTHENE	1B	153	1337	MG/KG	1.008	111692
578	C590	FLUORENE	32B	166	1772	MG/KG	1.140	200769
701	C640	PHENANTHRENE	44B	178	3147	MG/KG	1.006	648990
707	C645	ANTHRACENE	3B	178	2318	MG/KG	1.014	499843
856	C655	FLUORANTHENE	31B	202	1162	MG/KG	1.228	280384
882	C715	PYRENE	45B	202	981	MG/KG	0.842	183864
1047	C730	BENZO(A)ANTHRACENE	5B	228	223	MG/KG	0.999	35632
1051	C740	CHRYSENE	18B	228	236	MG/KG	1.003	26038
1102	C765	BENZO(B)FLUORANTHENE	7B	252	152	MG/KG	0.966	20578
1217	C775	BENZO(A)PYRENE	6B	252	103	MG/KG	0.994	9025
1236	C780	INDENO(1,2,3-CD)PYRENE	37B	276	34	MG/KG	1.092	2251
1359	C790	BENZO(GHI)PERYLENE	8B	276	39	MG/KG	1.110	2744

*SURROGATES WERE DILUTED OUT

000007

INST ID: 4510 SAMPLE NUMBER: SC-W8 (SSD) E

011687

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930403603 QC REPORT NO.: 04/08/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: RG DATE SAMPLE RECEIVED: 4/5/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04036C03
DATE EXTRACTED: 4/6/93
DATE ANALYZED: 04/08/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	110	34 J
C740	CHRYSENE	110	49 J
C765	BENZO(B)FLUORANTHENE	110	21 J
C770	BENZO(K)FLUORANTHENE	110 U	
C775	BENZO(A)PYRENE	110	13 J
C780	INDENO(1,2,3-CD)PYRENE	110 U	
C785	DIBENZO(A,H)ANTHRACENE	110 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

INCO ID: 4510 SAMPLE NUMBER: SC-W8 (SSD) E

011688

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930403603
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: Ray

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/5/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/6/93
DATE ANALYZED: 04/08/93

DATAFILE: 9U04036C03

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	110	610
C540	ACENAPHTHYLENE	110	6 J
C550	ACENAPHTHENE	110	260
C590	FLUORENE	110	360
C640	PHENANTHRENE	110	730
C645	ANTHRACENE	110	600
C655	FLUORANTHENE	110	230
C715	PYRENE	110	190
C730	BENZO(A)ANTHRACENE	110	34 J
C740	CHRYSENE	110	49 J
C765	BENZO(B)FLUORANTHENE	110	21 J
C770	BENZO(K)FLUORANTHENE	110 U	
C775	BENZO(A)PYRENE	110	13 J
C780	INDENO(1,2,3-CD)PYRENE	110 U	
C785	DIBENZO(A,H)ANTHRACENE	110 U	
C790	BENZO(GHI)PERYLENE	110 U	

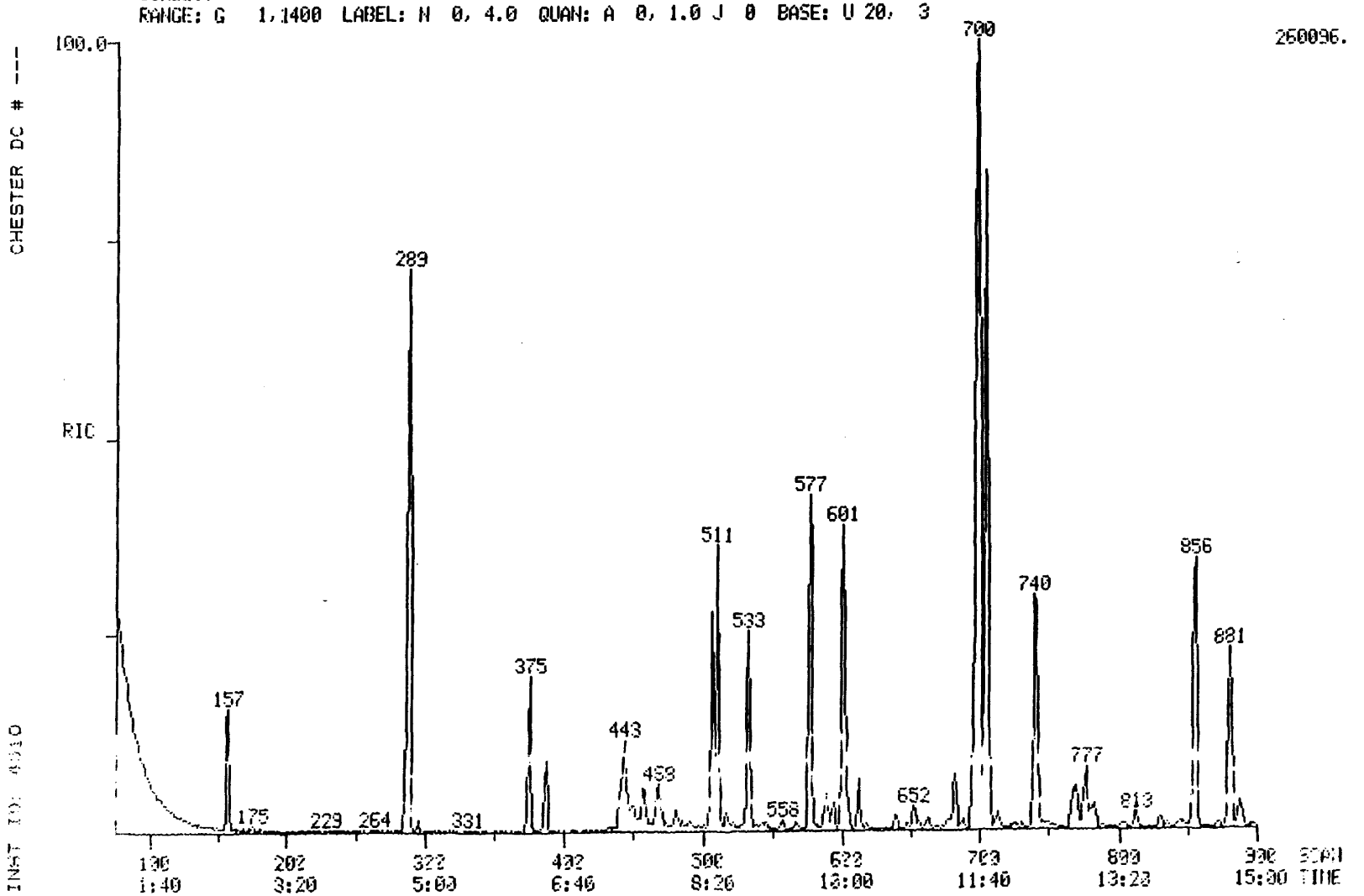
U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

000030

RIC
04/08/93 19:27:00
SAMPLE: SC-W8 (SSD) E
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04036C03 #1 SCANS 75 TO 900
CALI: 9U04036C03 #3

000010



260096.

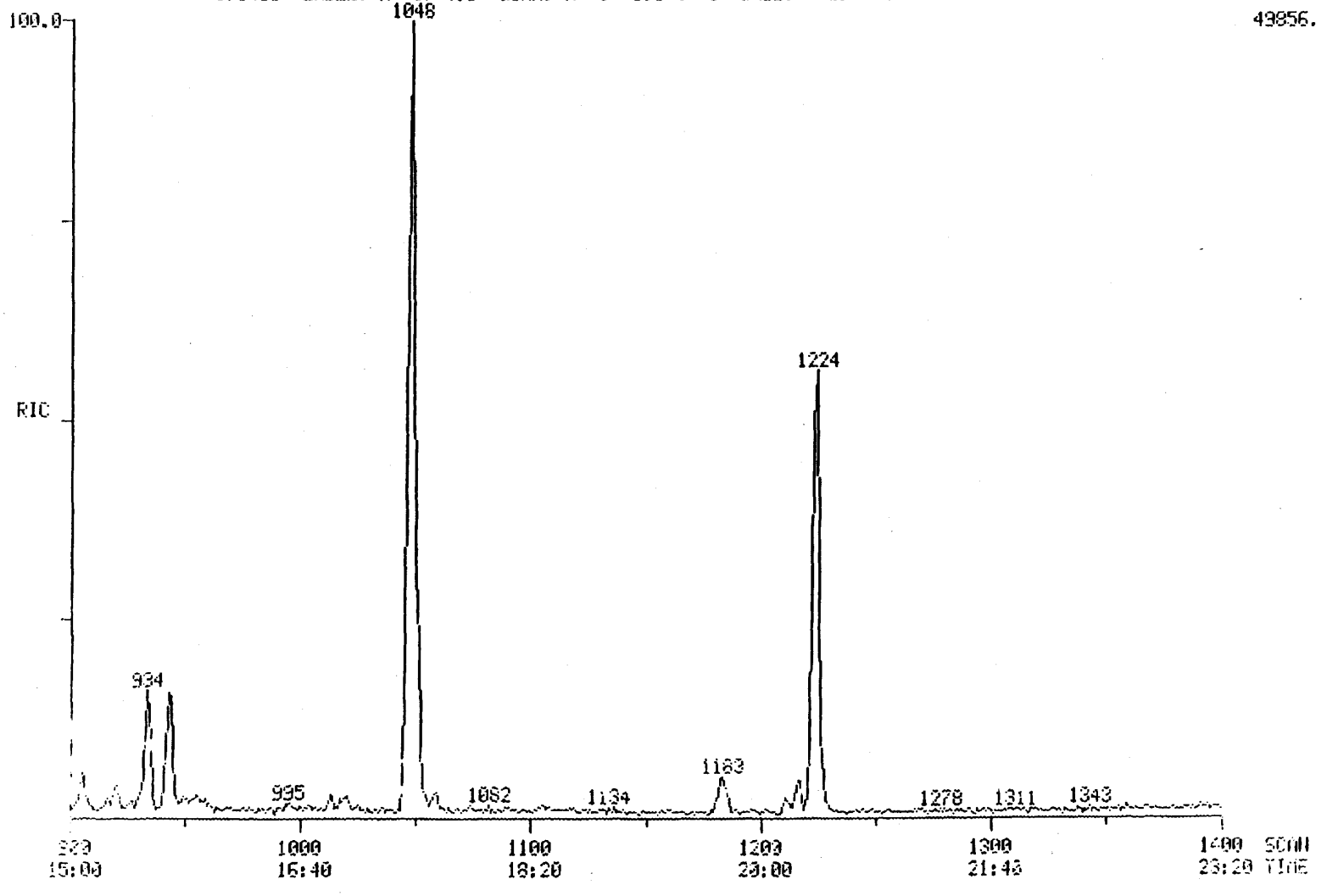
011689

CHESTER DC # ---

INST ID: 451C

RIC
04/03/93 19:27:00
SAMPLE: SC-W8 (SSD) E
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04036C03 #1 SCANS 900 TO 1400
CALI: 9U04036C03 #3



43856.

000011

011690

011691

SAMPLE ID.	SC-W8 (SSD) E		
FILENAME	9U04036C03	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JDD
DATE INJECTED	04/08/93 19:27:00	VERIFIED BY	SDD
CALIB STD DATE	04/08/93	CORR. FACTOR	11.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT	RRT	AREA
156	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	220 MG/KG	1.000	12620
287	C140	NAPHTHALENE-D8 ** IS2 **		136	220 MG/KG	1.000	54990
507	C150	ACENAPHTHENE-D10 ** IS3 **		164	220 MG/KG	1.000	44149
696	C160	PHENANTHRENE-D10 ** IS4 **		188	220 MG/KG	1.000	79801
1048	C170	CHRYSENE-D12 ** IS5 **		240	220 MG/KG	1.000	49099
1224	C175	PERYLENE-D12 ** IS6 **		264	220 MG/KG	1.000	33709
289	C450	NAPHTHALENE	39B	128	606 MG/KG	1.007	166790
485	C540	ACENAPHTHYLENE	2B	152	6 MG/KG	0.957	1983
511	C550	ACENAPHTHENE	1B	153	265 MG/KG	1.008	49219
577	C590	FLUORENE	32B	166	361 MG/KG	1.138	90940
700	C640	PHENANTHRENE	44B	178	735 MG/KG	1.006	322268
705	C645	ANTHRACENE	3B	178	600 MG/KG	1.013	275106
856	C655	FLUORANTHENE	31B	202	226 MG/KG	1.230	115803
881	C715	PYRENE	45B	202	192 MG/KG	0.841	71838
1046	C730	BENZO(A)ANTHRACENE	5B	228	34 MG/KG	0.998	10977
1051	C740	CHRYSENE	18B	228	49 MG/KG	1.003	10866
1183	C765	BENZO(B)FLUORANTHENE	7B	252	21 MG/KG	0.967	5460
1216	C775	BENZO(A)PYRENE	6B	252	13 MG/KG	0.993	2283

*SURROGATES WERE DILUTED OUT

INST ID. 4010 SAMPLE NUMBER: SC-WS (MCD) E

ORGANICS ANALYSIS DATA SHEET -

011692

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930403604
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: RG

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/5/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/6/93
DATE ANALYZED: 04/08/93

DATAFILE: 9U04036C04

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	250	240 J
C740	CHRYSENE	250	310
C765	BENZO(B)FLUORANTHENE	250	160 J
C770	BENZO(K)FLUORANTHENE	250 U	
C775	BENZO(A)PYRENE	250	110 J
C780	INDENO(1,2,3-CD)PYRENE	250	37 J
C785	DIBENZO(A,H)ANTHRACENE	250 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

INST ID: 4010 SAMPLE NUMBER: SC-W8 (MCD) E

011693

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930403604 QC REPORT NO.: 04/08/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: Ray C DATE SAMPLE RECEIVED: 4/5/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04036C04
DATE EXTRACTED: 4/6/93
DATE ANALYZED: 04/08/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	250	3200
C540	ACENAPHTHYLENE	250	44 J
C550	ACENAPHTHENE	250	1500
C590	FLUORENE	250	2000
C640	PHENANTHRENE	250	3600
C645	ANTHRACENE	250	1600
C655	FLUORANTHENE	250	1300
C715	PYRENE	250	1100
C730	BENZO(A)ANTHRACENE	250	240 J
C740	CHRYSENE	250	310
C765	BENZO(B)FLUORANTHENE	250	160 J
C770	BENZO(K)FLUORANTHENE	250 U	
C775	BENZO(A)PYRENE	250	110 J
C780	INDENO(1,2,3-CD)PYRENE	250	37 J
C785	DIBENZO(A,H)ANTHRACENE	250 U	
C790	BENZO(GHI)PERYLENE	250	36 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

000014

-14

RIC
04/08/93 20:37:00
SAMPLE: SC-W8 (MCD) E
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04036C04 #1 SCANS 75 TO 900
CALI: 9U04036C04 #3

000015

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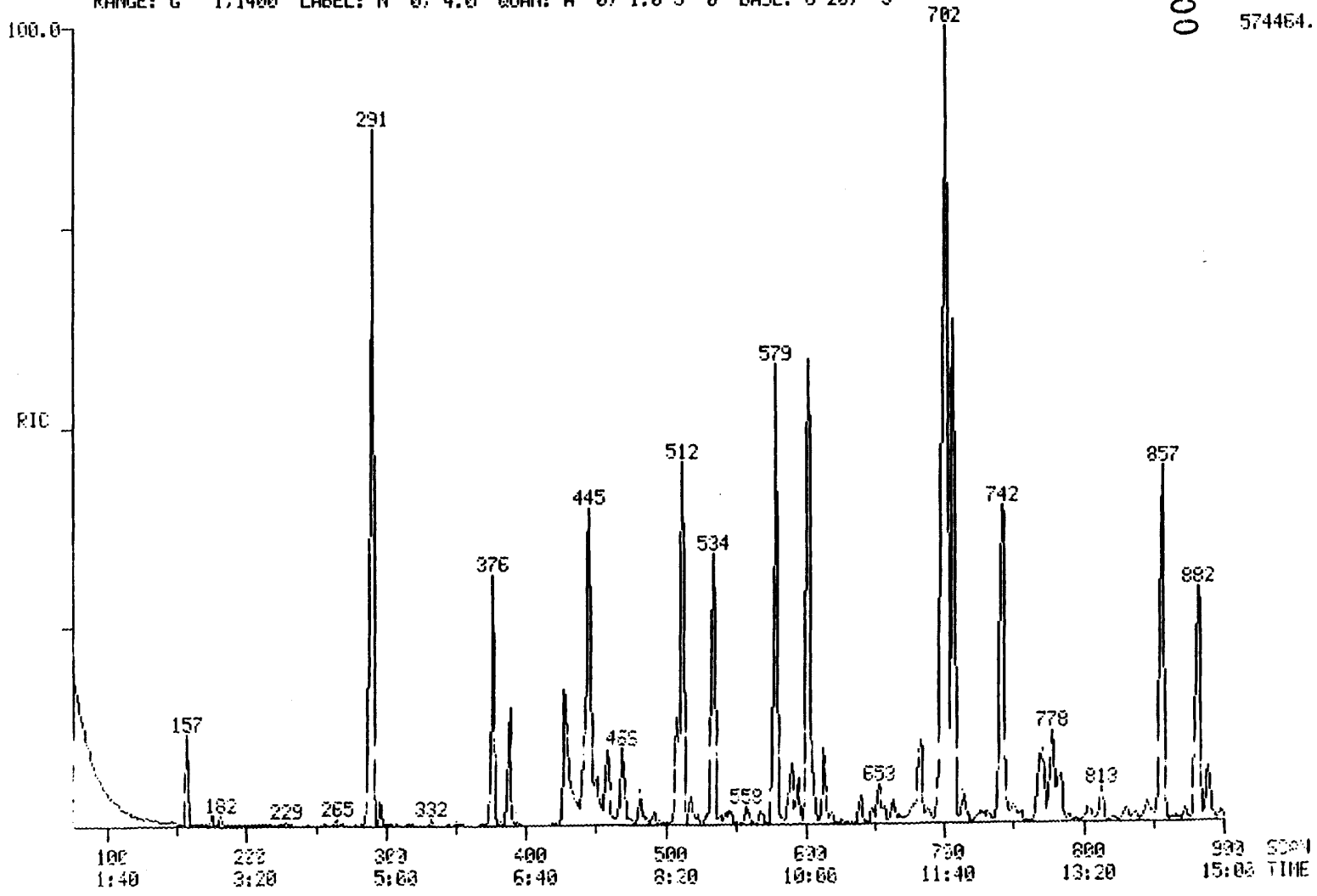


011694

-14

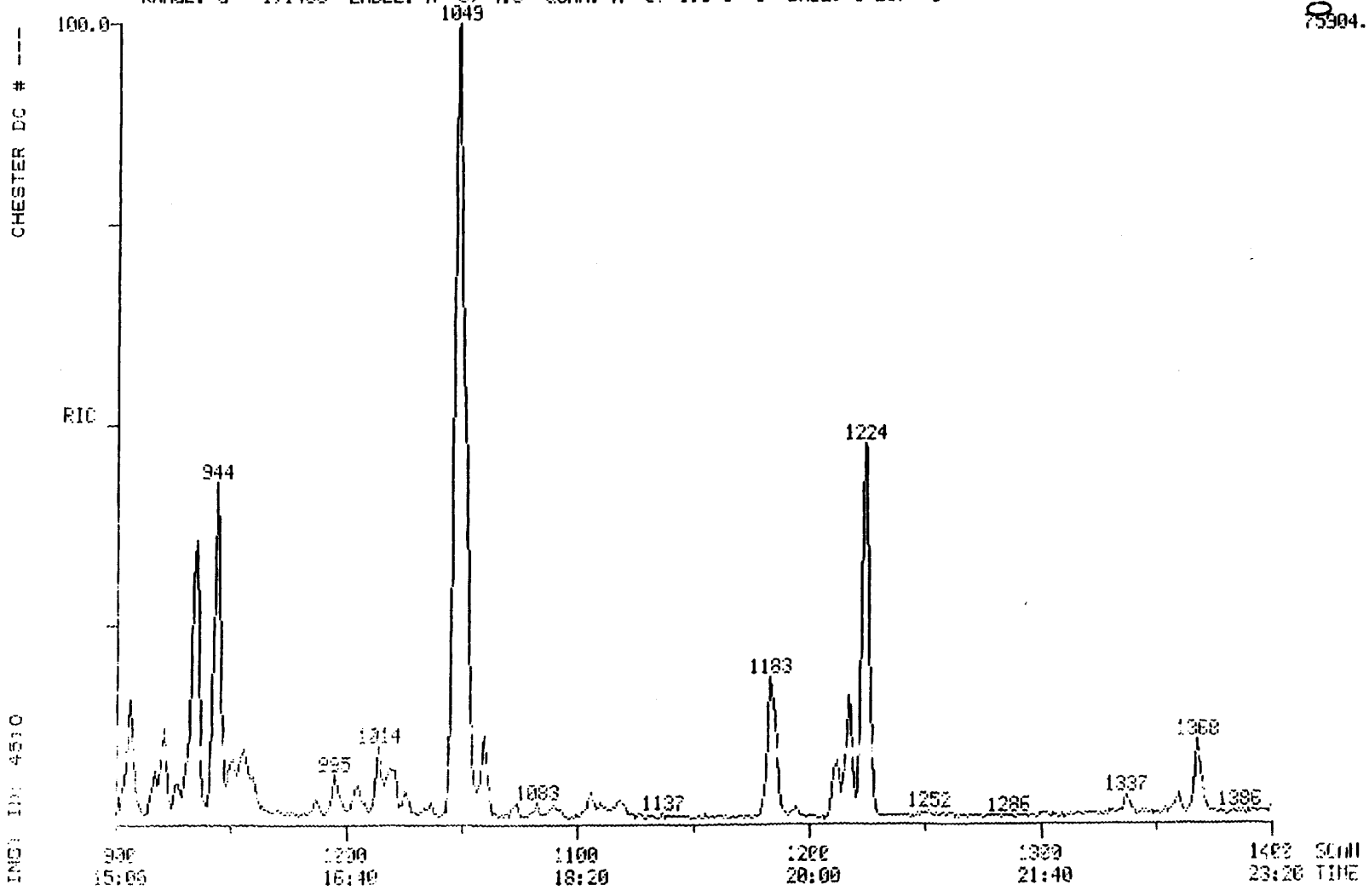
RIC
04/08/93 20:37:00
SAMPLE: SC-W8(MCD)E
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04036C04 #1
CALI: 9U04036C04 #3

SCANS 900 TO 1400

000016

75904.



011695

011695

SAMPLE ID. SC-WB (MCD) E

FILENAME 9U04036C04 INST ID. 4510

CLIENT DAMES&MO ANALYST JDD

DATE INJECTED 04/08/93 20:37:00 VERIFIED BY SAD

CALIB STD DATE 04/08/93 CORR. FACTOR 25.00

011696

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT	RRT	AREA
137	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	500 MG/KG	1.000	1770
280	CI40	NAPHTHALENE-D8 ** IS2 **		136	500 MG/KG	1.000	6786
508	CI50	ACENAPHTHENE-D10 ** IS3 **		164	500 MG/KG	1.000	5380
698	CI60	PHENANTHRENE-D10 ** IS4 **		188	500 MG/KG	1.000	9036
1049	CI70	CHRYSENE-D12 ** IS5 **		240	500 MG/KG	1.000	5821
1224	CI75	PERYLENE-D12 ** IS6 **		264	500 MG/KG	1.000	4109
291	C450	NAPHTHALENE	39B	128	3206 MG/KG	1.010	47924
486	C540	ACENAPHTHYLENE	2B	152	44 MG/KG	0.957	793
512	C550	ACENAPHTHENE	1B	153	1512 MG/KG	1.008	15072
579	C590	FLUORENE	32B	166	1979 MG/KG	1.140	26748
702	C640	PHENANTHRENE	44B	178	3645 MG/KG	1.006	79644
707	C645	ANTHRACENE	3B	178	1641 MG/KG	1.013	37508
837	C655	FLUORANTHENE	31B	202	1349 MG/KG	1.228	34483
882	C715	PYRENE	45B	202	1120 MG/KG	0.841	21876
1047	C730	BENZO(A)ANTHRACENE	5B	228	241 MG/KG	0.998	4027
1052	C740	CHRYSENE	18B	228	307 MG/KG	1.003	3521
1183	C765	BENZO(B)FLUORANTHENE	7B	252	160 MG/KG	0.967	2287
1217	C775	BENZO(A)PYRENE	6B	252	106 MG/KG	0.994	980
1337	C780	INDENO(1,2,3-CD)PYRENE	37B	276	37 MG/KG	1.092	256
1360	C790	BENZO(GHI)PERYLENE	8B	276	36 MG/KG	1.111	270

*SURROGATES WERE DILUTED OUT

INST ID: 4010 SAMPLE NUMBER: SC-W8 (C1/C2) E

ORGANICS ANALYSIS DATA SHEET -

011697

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930403605 QC REPORT NO.: 04/08/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: RO DATE SAMPLE RECEIVED: 4/5/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04036C05
DATE EXTRACTED: 4/6/93
DATE ANALYZED: 04/08/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	260	420
C740	CHRYSENE	260	450
C765	BENZO(B)FLUORANTHENE	260	270
C770	BENZO(K)FLUORANTHENE	260 U	
C775	BENZO(A)PYRENE	260	200 J
C780	INDENO(1,2,3-CD)PYRENE	260	69 J
C785	DIBENZO(A,H)ANTHRACENE	260	11 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

INST ID: 4010 SAMPLE NUMBER: SC-W8 (C1/C2) E

011698

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930403605 QC REPORT NO.: 04/08/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: RG DATE SAMPLE RECEIVED: 4/5/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04036C05
DATE EXTRACTED: 4/6/93
DATE ANALYZED: 04/08/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	260	5000
C340	ACENAPHTHYLENE	260	54 J
C550	ACENAPHTHENE	260	2600
C590	FLUORENE	260	2600
C640	PHENANTHRENE	260	5500
C645	ANTHRACENE	260	2200
C655	FLUORANTHENE	260	1900
C715	PYRENE	260	1800
C730	BENZO(A)ANTHRACENE	260	420
C740	CHRYSENE	260	450
C765	BENZO(B)FLUORANTHENE	260	270
C770	BENZO(K)FLUORANTHENE	260 U	
C775	BENZO(A)PYRENE	260	200 J
C780	INDENO(1,2,3-CD)PYRENE	260	69 J
C785	DIBENZO(A,H)ANTHRACENE	260	11 J
C790	BENZO(GHI)PERYLENE	260	69 J

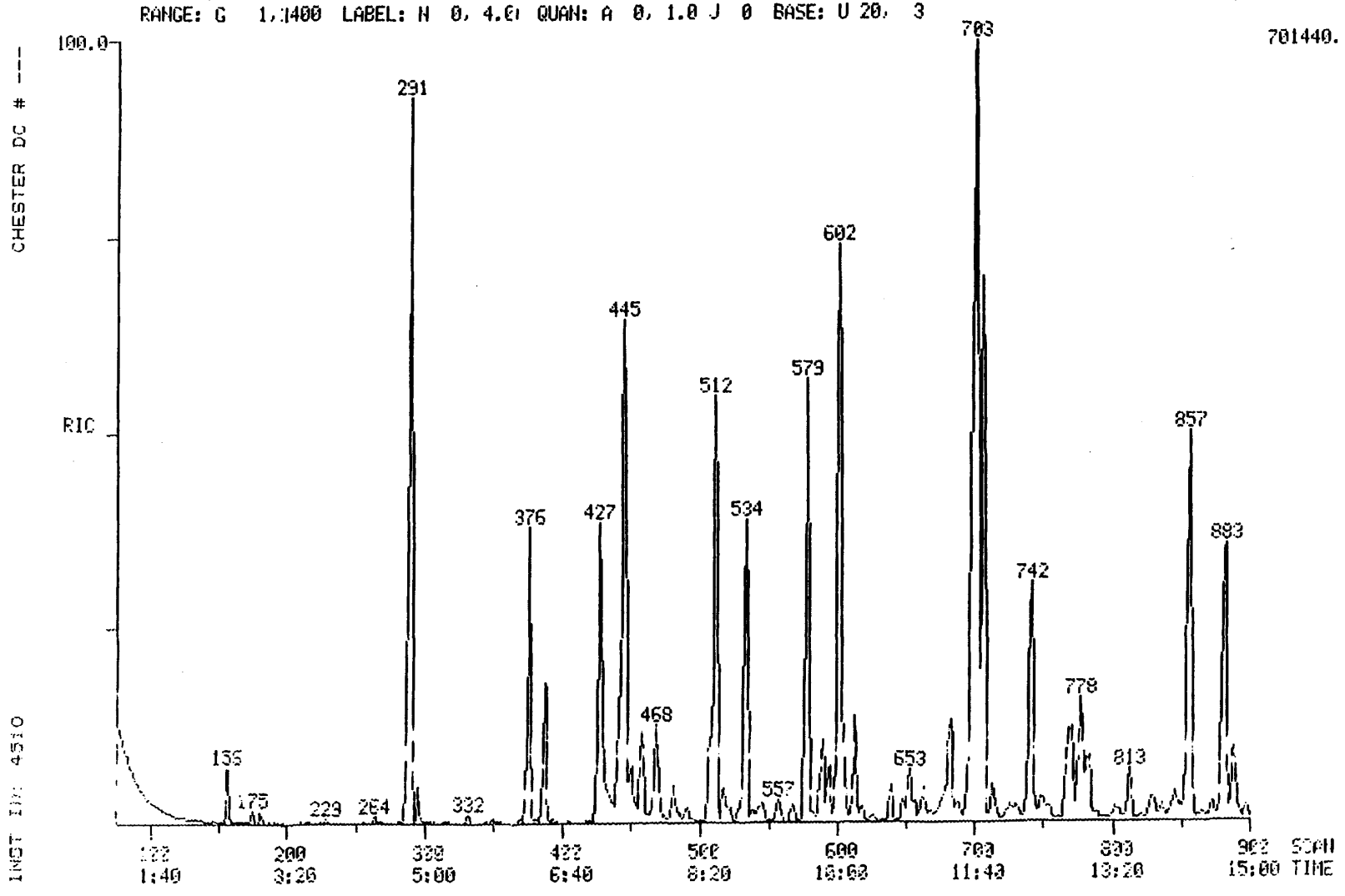
U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

RIC
04/08/93 22:24:00
SAMPLE: SC-W8 (C1/C2) E
CONDS.: ---
RANGE: G 1,:400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04036C05 #1 SCANS 75 TO 900
CALI: 9U04036C05 #3

000020

701440.



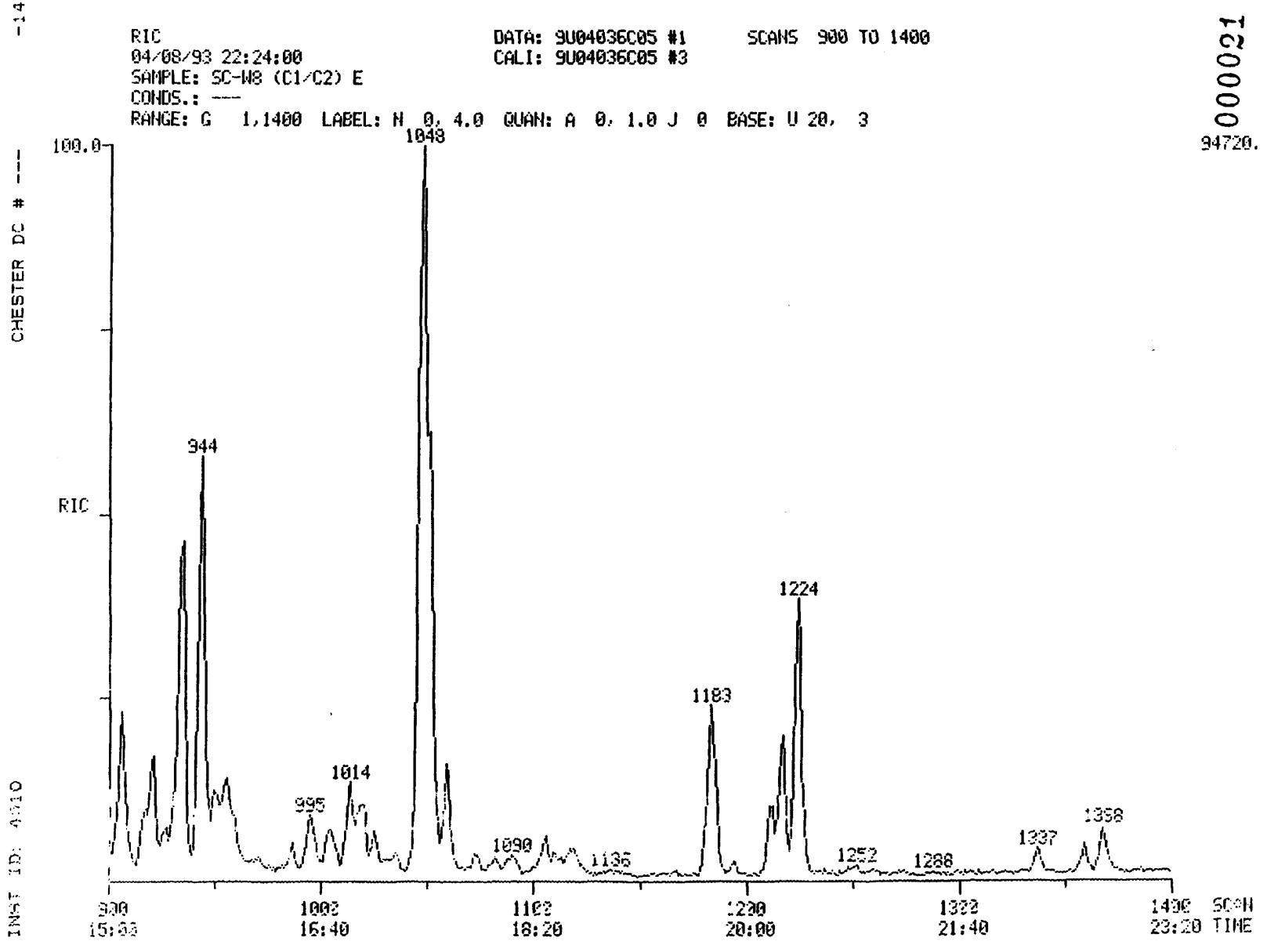
CHESTER DC # ---

INST ID: 4510

-14

011699

011699


-14
RIC
04/08/93 22:24:00
SAMPLE: SC-W8 (C1/C2) E
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 9U04036C05 #1
CALI: 9U04036C05 #3
SCANS 900 TO 1400
000021
94720.
CHESTER DC # ---
INST ID: 4010
100.0
RIC
944
995
1014
1048
1090
1136
1183
1224
1252
1288
1337
1358
900
15:00
1000
16:40
1100
18:20
1200
20:00
1300
21:40
1400
23:20
SCAN
TIME

011700

SAMPLE ID. SC-W8 (C1/C2) E

FILENAME 9U04036C05 INST ID. 4510

CLIENT DAMES&MO ANALYST JDD

DATE INJECTED 04/08/93 22:24:00 VERIFIED BY

CALIB STD DATE 04/08/93 CORR. FACTOR 26.00

011701

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT	RRT	AREA
136	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	520 MG/KG	1.000	16912
288	C140	NAPHTHALENE-D8 ** IS2 **		136	520 MG/KG	1.000	65389
508	C150	ACENAPHTHENE-D10 ** IS3 **		164	520 MG/KG	1.000	52247
698	C160	PHENANTHRENE-D10 ** IS4 **		188	520 MG/KG	1.000	92157
1048	C170	CHRYSENE-D12 ** IS5 **		240	520 MG/KG	1.000	58092
1224	C175	PERYLENE-D12 ** IS6 **		264	520 MG/KG	1.000	41004
291	C450	NAPHTHALENE	39B	128	5014 MG/KG	1.010	694413
486	C540	ACENAPHTHYLENE	2B	152	54 MG/KG	0.957	9090
512	C550	ACENAPHTHENE	1B	153	2585 MG/KG	1.008	240573
579	C590	FLUORENE	32B	166	2628 MG/KG	1.140	331558
703	C640	PHENANTHRENE	44B	178	5492 MG/KG	1.007	1176716
707	C645	ANTHRACENE	3B	178	2169 MG/KG	1.013	485992
837	C655	FLUORANTHENE	31B	202	1917 MG/KG	1.228	480409
882	C715	PYRENE	45B	202	1810 MG/KG	0.842	339295
1047	C730	BENZO(A)ANTHRACENE	5B	228	420 MG/KG	0.999	67189
1051	C740	CHRYSENE	18B	228	452 MG/KG	1.003	49801
1183	C765	BENZO(B)FLUORANTHENE	7B	252	266 MG/KG	0.967	36373
1217	C775	BENZO(A)PYRENE	6B	252	195 MG/KG	0.994	17322
1337	C780	INDENO(1,2,3-CD)PYRENE	37B	276	69 MG/KG	1.092	4631
1343	C785	DIBENZO(A,H)ANTHRACENE	19B	278	11 MG/KG	1.097	714
1359	C790	BENZO(GHI)PERYLENE	8B	276	69 MG/KG	1.110	4908

*SURROGATES WERE DILUTED OUT

INST ID: 4010 SAMPLE NUMBER: SC-W7 (DWC) D

ORGANICS ANALYSIS DATA SHEET -

011702

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930403606
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: RB

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/5/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/6/93
DATE ANALYZED: 04/08/93

DATAFILE: 9U04036C06

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	290	260 J
C740	CHRYSENE	290	310
C765	BENZO(B)FLUORANTHENE	290	190 J
C770	BENZO(K)FLUORANTHENE	290 U	
C775	BENZO(A)PYRENE	290	130 J
C780	INDENO(1,2,3-CD)PYRENE	290	48 J
C785	DIBENZO(A,H)ANTHRACENE	290	9 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

INST ID: 4510 SAMPLE NUMBER: SC-W7 (DWC) D

ORGANICS ANALYSIS DATA SHEET -

011703

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930403606
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: ...RB...

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: ..4/5/93....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: ..4/6/93.....
DATE ANALYZED: 04/08/93

DATAFILE: 9U04036C06

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	290	2400
C540	ACENAPHTHYLENE	290	35 J
C550	ACENAPHTHENE	290	1400
C590	FLUORENE	290	1600
C640	PHENANTHRENE	290	3200
C645	ANTHRACENE	290	810
C655	FLUORANTHENE	290	1500
C715	PYRENE	290	1200
C730	BENZO(A)ANTHRACENE	290	260 J
C740	CHRYSENE	290	310
C765	BENZO(B)FLUORANTHENE	290	190 J
C770	BENZO(K)FLUORANTHENE	290 U	
C775	BENZO(A)PYRENE	290	130 J
C780	INDENO(1,2,3-CD)PYRENE	290	48 J
C785	DIBENZO(A,H)ANTHRACENE	290	9 J
C790	BENZO(GHI)PERYLENE	290	45 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

000024

RIC
04/08/93 20:02:00
SAMPLE: SC-W7 (DWC) D
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04036C06 #1 SCANS 75 TO 900
CALI: 9U04036C06 #3

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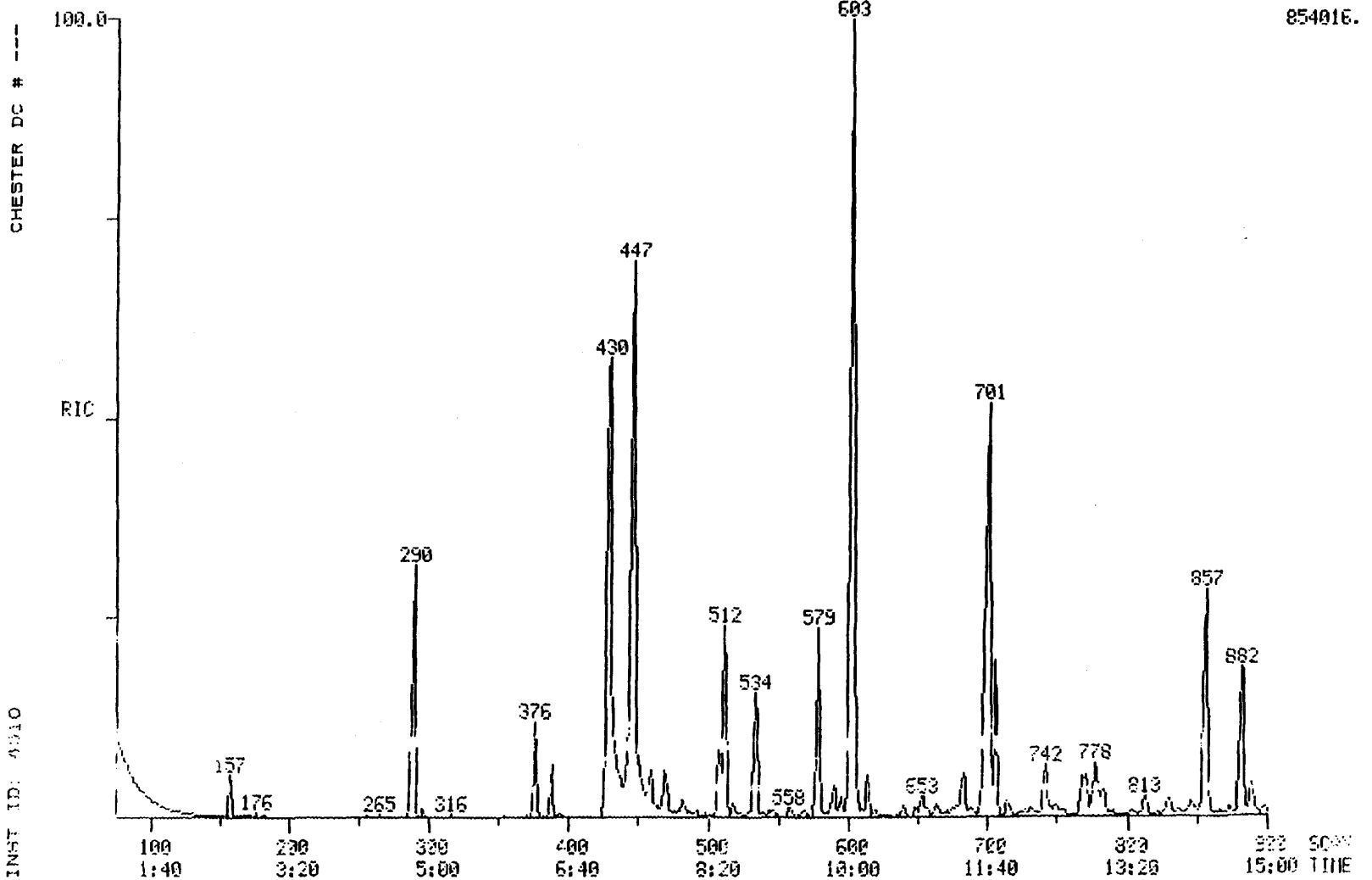
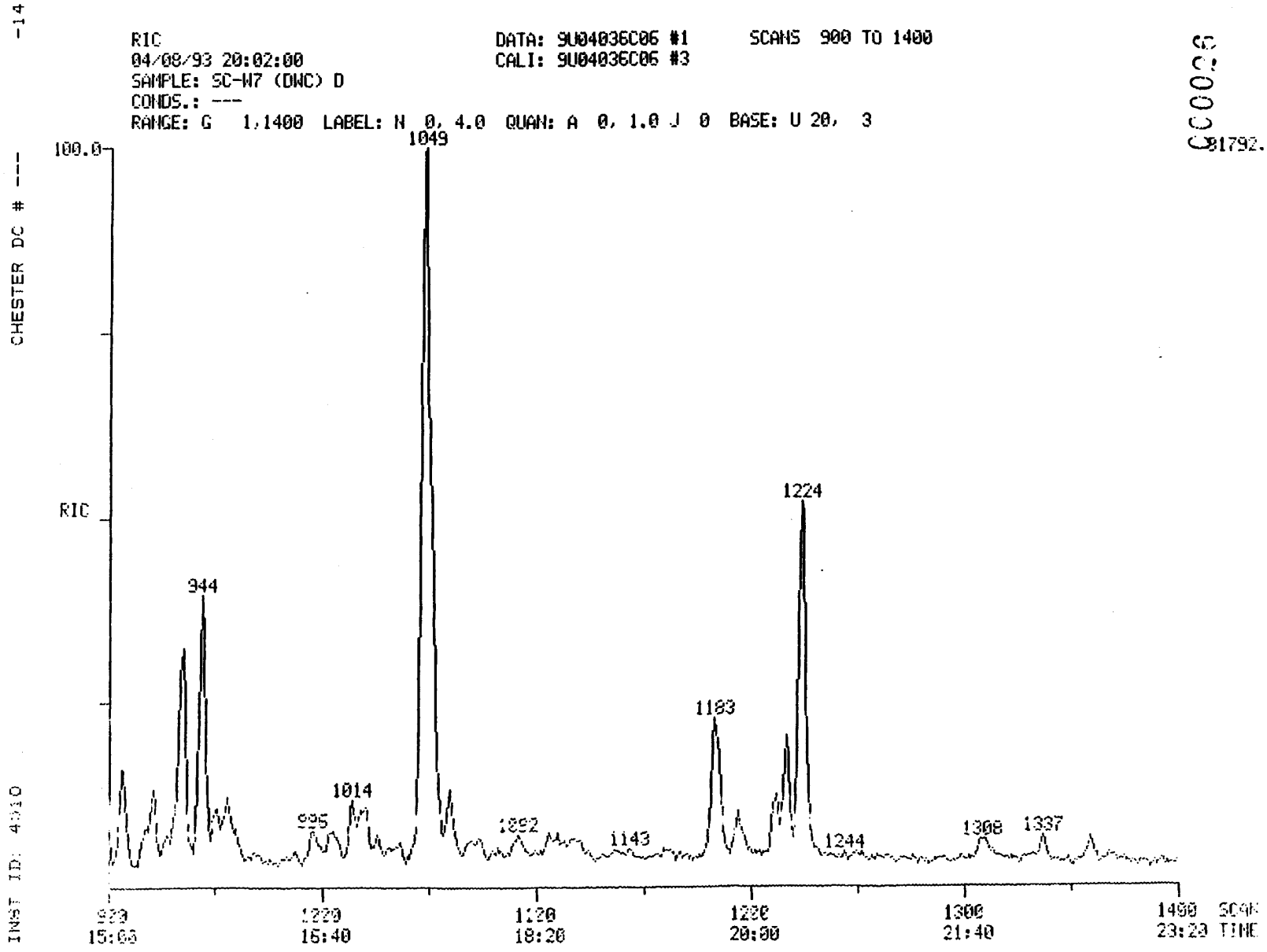


011704



011705

011705

SAMPLE ID. SC-W7 (DWC) D

FILE NAME 9U04036C06 INST ID. 4510

CLIENT DAMES&MO ANALYST JDD

DATE INJECTED 04/08/93 20:02:00 VERIFIED BY JDD

CALIB STD DATE 04/08/93 CORR. FACTOR 29.00

011706

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT	RRT	AREA
157	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	580 MG/KG	1.000	13547
208	C140	NAPHTHALENE-D8 ** IS2 **		136	580 MG/KG	1.000	56063
508	C150	ACENAPHTHENE-D10 ** IS3 **		164	580 MG/KG	1.000	47831
678	C160	PHENANTHRENE-D10 ** IS4 **		188	580 MG/KG	1.000	87584
1049	C170	CHRYSENE-D12 ** IS5 **		240	580 MG/KG	1.000	60684
1224	C175	PERYLENE-D12 ** IS6 **		264	580 MG/KG	1.000	45157
270	C450	NAPHTHALENE	39B	128	2407 MG/KG	1.007	256267
486	C540	ACENAPHTHYLENE	2B	152	35 MG/KG	0.957	4785
512	C550	ACENAPHTHENE	1B	153	1446 MG/KG	1.008	110441
579	C590	FLUORENE	32B	166	1601 MG/KG	1.140	165796
701	C640	PHENANTHRENE	44B	178	3176 MG/KG	1.004	579860
706	C645	ANTHRACENE	3B	178	808 MG/KG	1.011	154265
857	C655	FLUORANTHENE	31B	202	1463 MG/KG	1.228	312466
882	C715	PYRENE	45B	202	1182 MG/KG	0.841	207476
1047	C730	BENZO(A)ANTHRACENE	5B	228	261 MG/KG	0.998	39166
1051	C740	CHRYSENE	18B	228	309 MG/KG	1.002	31875
1103	C765	BENZO(B)FLUORANTHENE	7B	252	188 MG/KG	0.967	25361
1217	C775	BENZO(A)PYRENE	6B	252	128 MG/KG	0.994	11248
1337	C780	INDENO(1,2,3-CD)PYRENE	37B	276	48 MG/KG	1.092	3187
1343	C785	DIBENZO(A,H)ANTHRACENE	19B	278	9 MG/KG	1.097	559
1359	C790	BENZO(GHI)PERYLENE	8B	276	45 MG/KG	1.110	3202

SURROGATES WERE DILUTED OUT

000027

011707

CALIBRATIONS

CHESTER LABNET-HOUSTON

000028

INITIAL CALIBRATION DATA - SEMIVOLATILE HSL COMPOUNDS

CASE NO. ---
CONTRACT NO. ---
CALIBRATION DATE: 04/08/93
MINIMUM MEAN RF FOR SPCC IS 0.05
MAXIMUM %RSD FOR CCC IS 30%

CONTRACT LAB: KEYSTONE
INSTRUMENT IDENTIFIER: 4510

011708

	COMPOUND	RF 20NG	RF 50NG	RF 80NG	RF 120NG	RF 160NG	MEAN RF	%RSD
C315	PHENOL	1.747	1.716	1.756	1.825	1.779	1.764	2.293
C325	BIS(2-CHLOROETHYL)ETHE	1.891	1.520	1.874	1.863	1.766	1.783	8.689
C330	2-CHLOROPHENOL	1.400	1.379	1.405	1.420	1.323	1.386	2.734
C335	1,3-DICHLOROBENZENE	1.426	1.535	1.514	1.538	1.500	1.503	3.021
C340	1,4-DICHLOROBENZENE	1.508	1.579	1.581	1.597	1.546	1.562	2.269
C345	BENZYL ALCOHOL	0.477	0.875	0.719	0.662	0.597	0.666	22.134
C350	1,2-DICHLOROBENZENE	1.357	1.418	1.502	1.453	1.417	1.429	3.728
C355	2-METHYLPHENOL	1.417	1.626	1.503	1.514	1.548	1.522	4.977
C357	2,2'-OXYBIS(1-CHLOROPR	3.099	2.577	2.733	2.674	2.873	2.791	7.261
C365	4-METHYLPHENOL	1.402	1.694	1.635	1.597	1.637	1.593	7.035
C370	N-NITROSODIPROPYLAMINE	1.468	1.335	1.451	1.391	1.404	1.410	3.743
C375	HEXACHLOROETHANE	0.533	0.612	0.655	0.622	0.645	0.613	7.844
C410	NITROBENZENE	0.373	0.405	0.414	0.432	0.430	0.411	5.779
C415	ISOPHORONE	0.747	0.778	0.793	0.847	0.829	0.799	4.983
C420	2-NITROPHENOL	0.192	0.207	0.222	0.239	0.228	0.218	8.440
C425	2,4-DIMETHYLPHENOL	0.308	0.310	0.313	0.337	0.339	0.321	4.704
C430	BENZOIC ACID	0.116	0.276	0.235	0.241	0.248	0.223	27.754
C435	BIS(2-CHLOROETHOXY)MET	0.551	0.464	0.481	0.513	0.519	0.505	6.713
C440	2,4-DICHLOROPHENOL	0.273	0.309	0.299	0.307	0.315	0.301	5.433
C445	1,2,4-TRICHLOROBENZENE	0.310	0.330	0.324	0.327	0.332	0.325	2.687
C450	NAPHTHALENE	1.087	1.101	1.110	1.160	1.094	1.111	2.610
C455	4-CHLOROANILINE	0.347	0.442	0.443	0.342	0.352	0.385	13.531
C460	HEXACHLOROBUTADIENE	0.130	0.154	0.141	0.138	0.149	0.142	6.541
C465	P-CHLORO-M-CRESOL	0.246	0.317	0.298	0.305	0.314	0.296	9.778
C470	2-METHYLNAPHTHALENE	0.726	0.855	0.863	0.849	0.878	0.834	7.382
C510	HEXACHLOROCYCLOPENTADI	0.221	0.250	0.268	0.275	0.262	0.255	8.302
C515	2,4,6-TRICHLOROPHENOL	0.308	0.326	0.303	0.314	0.278	0.306	5.878
C520	2,4,5-TRICHLOROPHENOL	0.304	0.392	0.358	0.365	0.327	0.349	9.796
C525	2-CHLORONAPHTHALENE	1.072	1.096	1.092	1.123	0.985	1.074	4.921
C530	2-NITROANILINE	0.314	0.397	0.411	0.422	0.374	0.384	11.160
C535	DIMETHYL PHTHALATE	1.370	1.157	1.239	1.212	1.100	1.216	8.351
C540	ACENAPHTHYLENE	1.609	1.668	1.662	1.651	1.464	1.611	5.283
C545	3-NITROANILINE	0.239	0.345	0.347	0.357	0.319	0.321	15.004
C550	ACENAPHTHENE	0.911	0.926	0.940	0.932	0.830	0.908	4.938
C555	2,4-DINITROPHENOL	0.089	0.176	0.160	0.176	0.169	0.154	23.937
C560	4-NITROPHENOL	0.052	0.108	0.094	0.084	0.085	0.085	23.867
C565	DIBENZOFURAN	1.458	1.619	1.614	1.554	1.386	1.526	6.659
C570	2,4-DINITROTOLUENE	0.324	0.370	0.355	0.336	0.307	0.338	7.273
C573	2,6-DINITROTOLUENE	0.319	0.389	0.366	0.333	0.296	0.341	10.829
C580	DIETHYL PHTHALATE	1.350	1.142	1.101	1.082	1.006	1.136	11.376
C585	4-CHLOROPHENYL PHENYL	0.724	0.632	0.594	0.595	0.553	0.620	10.411
C590	FLUORENE	1.223	1.256	1.178	1.159	1.055	1.174	6.526
C595	4-NITROANILINE	0.234	0.334	0.322	0.314	0.285	0.298	13.456
C610	4,6-DINITRO-2-METHYLPH	0.132	0.157	0.154	0.167	0.160	0.154	8.629
C615	N-NITROSODIPHENYLAMINE	0.755	0.650	0.670	0.704	0.679	0.691	5.849
C625	4-BROMOPHENYL PHENYL E	0.239	0.201	0.206	0.221	0.219	0.217	6.829
C630	HEXACHLOROBENZENE	0.181	0.204	0.198	0.202	0.204	0.198 2/28	4.873
C635	PENTACHLOROPHENOL	0.106	0.131	0.127	0.132	0.138	0.127 0.132	9.767
C640	PHENANTHRENE	1.163	1.209	1.181	1.280	1.227	1.212	3.735
C645	ANTHRACENE	1.264	1.264	1.267	1.287	1.285	1.273	0.883
C650	DI-N-BUTYL PHTHALATE	1.735	1.821	1.529	1.598	1.609	1.658	7.071
C655	FLUORANTHENE	1.152	1.414	1.189	1.225	1.236	1.243	8.140

C715	PYRENE	1.639	1.678	1.697	1.734	1.709	1.691	2.104
C720	BUTYL BENZYL PHTHALATE	0.985	0.913	0.861	0.917	0.946	0.924	4.932
C725	3,3'-DICHLOROBENZIDINE	0.443	0.382	0.418	0.430	0.426	0.420	5.420
C730	BENZO(A)ANTHRACENE	1.259	1.433	1.371	1.458	1.476	1.399	6.294
C745	BIS(2-ETHYLHEXYL)PHTHA	1.574	1.473	1.361	1.453	1.485	1.469	5.191
C740	CHRYSENE	1.159	0.986	1.132	1.130	1.072	1.096	6.307
C760	DI-N-OCTYL PHTHALATE	3.210	2.817	2.698	2.806	2.827	2.871	6.835
C765	BENZO(B)FLUORANTHENE	1.333	1.734	1.606	1.418	1.772	1.573	12.231
C770	BENZO(K)FLUORANTHENE	1.314	1.066	0.945	0.834	0.945	1.021	17.956
C775	BENZO(A)PYRENE	1.086	1.126	1.123	1.176	1.182	1.138	3.541
C780	INDENO(1,2,3-CD)PYRENE	0.732	0.849	0.743	0.809	0.814	0.790	6.305
C785	DIBENZO(A,H)ANTHRACENE	0.686	0.831	0.744	0.824	0.833	0.784	8.426
C790	BENZO(GHI)PERYLENE	0.845	0.908	0.863	0.886	0.881	0.877	2.715
C310	N-NITROSODIMETHYLAMINE	2.407	1.821	1.410	1.214	0.756	1.522	41.092
C620	1,2-DIPHENYL-HYDRAZINE	1.007	1.039	1.104	1.135	1.118	1.081	5.059
CS70	2-CHLOROPHENOL-D4 ** S	1.598	1.881	1.891	1.716	1.687	1.755	7.269
CS75	1,2-DICHLOROBENZENE-D4	0.792	0.871	0.896	0.834	0.865	0.852	4.691
C647	CARBAZOLE	1.049	1.245	1.176	1.204	1.245	1.184	6.814
CS50	2-FLUOROPHENOL ** SU1	1.102	1.378	1.324	1.378	1.232	1.283	9.146
CS45	PHENOL-D5 ** SU2 **	1.641	2.053	2.056	1.841	1.950	1.908	9.082
CS55	2,4,6-TRIBROMOPHENOL	0.101	0.148	0.130	0.126	0.130	0.127	13.316
CS20	NITROBENZENE-D5 ** SU3	0.329	0.394	0.409	0.412	0.401	0.389	8.779
CS25	2-FLUOROBIPHENYL ** SU	1.106	1.201	1.206	1.116	1.007	1.127	7.246
CS30	TERPHENYL-D14 ** SU6	1.209	1.340	1.391	1.347	1.359	1.329	5.257
BENZENETHIOL								
METHYL CHRYSENE								
QUINOLINE								
C720	1-METHYLNAPHTHALENE							
7,12-DIMETHYLBENZ(A)ANTHRACE								
DIBENZ(A,H)ACRIDINE								
3+4-METHYLPHENOL								
INDENE		0.000	6.030	4.340	1.729	0.800	3.225	74.305
A950	PYRIDINE							
A953	2,6-DICHLOROPHENOL							
A987	2,5-DICHLOROPHENOL							
A988	3,4-DICHLOROPHENOL							
A989	2,3-DICHLOROPHENOL							
A990	3,5-DICHLOROPHENOL							
A991	1,3,5-TRICHLOROBENZENE							
A992	1,2,3-TRICHLOROBENZENE							
CI30	1,4-DICHLOROBENZENE-D4	0.000	1.000	1.000	1.000	1.000	1.000	0.000

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SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4510

LAB ID. FS0408C02

CLIENT CHESTER ANALYST JDD

DATE INJECTED 04/08/93 11:52:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	157	40	13242	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	287	40	51347	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	507	40	33928	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	696	40	54036	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1047	40	46784	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1222	40	42125	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	83	50	22804	0.529	1.378
CS45	PHENOL-D5 ** SU2 **	99	155	50	33988	0.987	2.053
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	614	50	6263	1.211	0.148
CS20	NITROBENZENE-D5 ** SU3 **	82	214	50	25268	0.746	0.394
CS25	2-FLUOROBIPHENYL ** SU4 **	172	433	50	50948	0.854	1.201
CS30	TERPHENYL-D14 ** SU6 **	244	925	50	78340	0.883	1.340
C315	PHENOL	94	156	50	28408	0.994	1.716
C325	BIS(2-CHLOROETHYL)ETHER	93	146	50	25152	0.930	1.520
C330	2-CHLOROPHENOL	128	148	50	22830	0.943	1.379
C335	1,3-DICHLOROBENZENE	146	153	50	25406	0.975	1.535
C340	1,4-DICHLOROBENZENE	146	158	50	26130	1.006	1.579
C345	BENZYL ALCOHOL	108	183	50	14479	1.166	0.875
C350	1,2-DICHLOROBENZENE	146	174	50	23469	1.108	1.418
C355	2-METHYLPHENOL	108	210	50	26922	1.338	1.626
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	197	50	42661	1.255	2.577
C365	4-METHYLPHENOL	108	227	50	28037	1.446	1.694
C370	N-NITROSODIPROPYLAMINE	70	212	50	22095	1.350	1.335
C375	HEXACHLOROETHANE	117	202	50	10122	1.287	0.612
C410	NITROBENZENE	77	216	50	25979	0.753	0.405
C415	ISOPHORONE	82	245	50	49962	0.854	0.778
C420	2-NITROPHENOL	139	250	50	13254	0.871	0.207
C425	2,4-DIMETHYLPHENOL	107	280	50	19903	0.976	0.310
C430	BENZOIC ACID	122	319	50	17689	1.111	0.276
C435	BIS(2-CHLOROETHOXY)METHANE	93	281	50	29773	0.979	0.464
C440	2,4-DICHLOROPHENOL	162	290	50	19830	1.010	0.309
C445	1,2,4-TRICHLOROBENZENE	180	285	50	21183	0.993	0.330
C450	NAPHTHALENE	128	289	50	70696	1.007	1.101
C455	4-CHLOROANILINE	127	311	50	28344	1.084	0.442
C460	HEXACHLOROBUTADIENE	225	319	50	9867	1.111	0.154
C465	P-CHLORO-M-CRESOL	107	397	50	20344	1.383	0.317
C470	2-METHYLNAPHTHALENE	142	375	50	54846	1.307	0.855
C510	HEXACHLOROCYCLOPENTADIENE	237	408	50	10599	0.805	0.250
C515	2,4,6-TRICHLOROPHENOL	196	427	50	13836	0.842	0.326
C520	2,4,5-TRICHLOROPHENOL	196	440	50	16637	0.868	0.392
C525	2-CHLORONAPHTHALENE	162	434	50	46475	0.856	1.096
C530	2-NITROANILINE	65	464	50	16856	0.915	0.397
C535	DIMETHYL PHTHALATE	163	502	50	49075	0.990	1.157
C540	ACENAPHTHYLENE	152	485	50	70752	0.957	1.668
C545	3-NITROANILINE	138	520	50	14614	1.026	0.345
C550	ACENAPHTHENE	153	511	50	39280	1.008	0.926

SV STANDARD REPORT PAGE 2

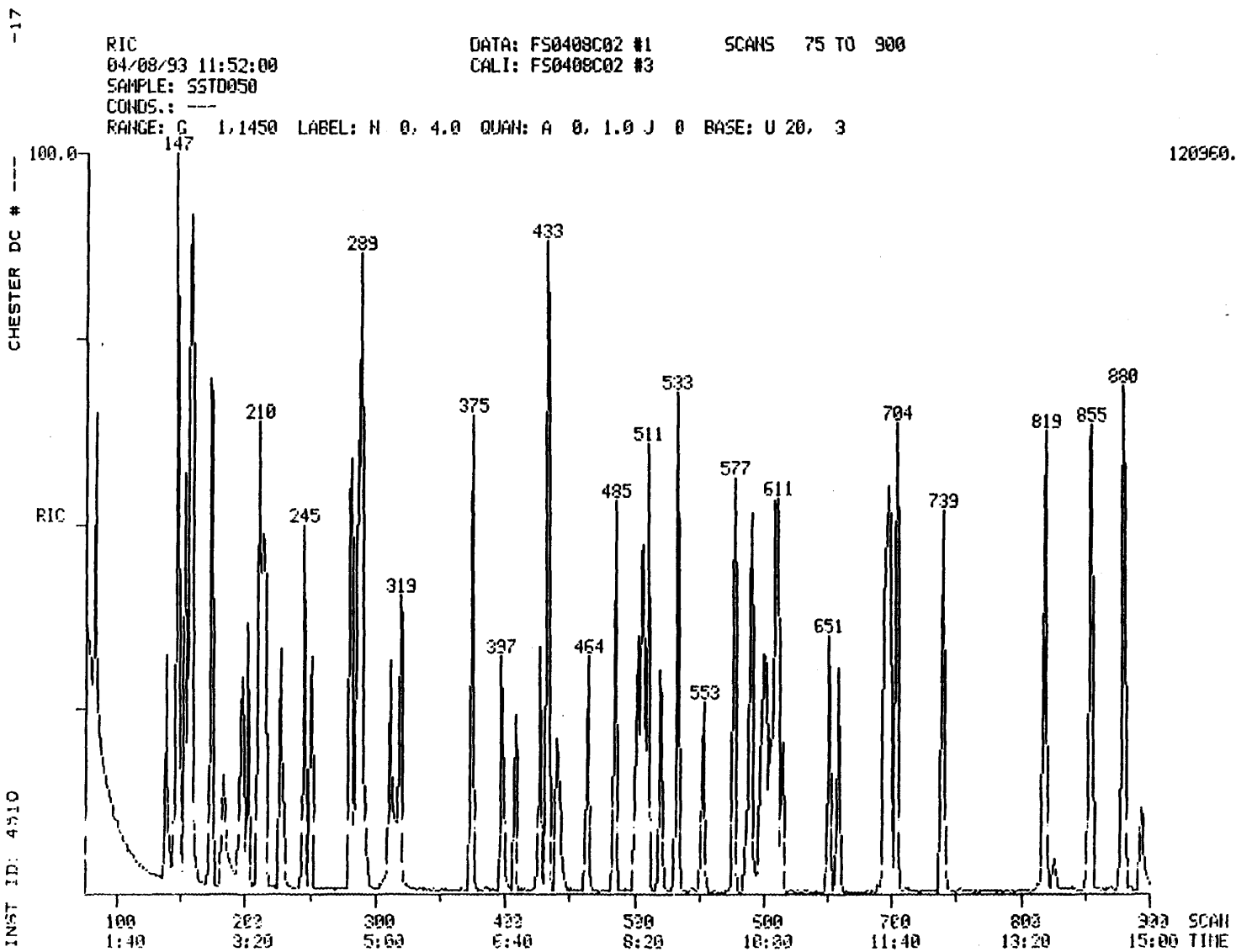
DATAFILE FS0408C02

011711

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	184	533	50	7451	1.051	0.176
C560	4-NITROPHENOL	109	586	50	4569	1.156	0.108
C565	DIBENZOFURAN	168	533	50	68681	1.051	1.619
C570	2,4-DINITROTOLUENE	165	553	50	15675	1.091	0.370
C543	2,6-DINITROTOLUENE	165	505	50	16492	0.996	0.389
C580	DIETHYL PHTHALATE	149	599	50	48439	1.181	1.142
C585	4-CHLOROPHENYL PHENYL ETHER	204	590	50	26791	1.164	0.632
C590	FLUORENE	166	577	50	53263	1.138	1.256
C595	4-NITROANILINE	138	602	50	14168	1.187	0.334
C610	4,6-DINITRO-2-METHYLPHENOL	198	605	50	10585	0.869	0.157
C615	N-NITROSODIPHENYLAMINE	169	611	50	43883	0.878	0.650
C625	4-BROMOPHENYL PHENYL ETHER	248	651	50	13563	0.935	0.201
C630	HEXACHLOROBENZENE	284	659	50	13750	0.947	0.204
C635	PENTACHLOROPHENOL	266	694	50	8838	0.997	0.131
C640	PHENANTHRENE	178	698	50	81660	1.003	1.209
C645	ANTHRACENE	178	704	50	85410	1.011	1.264
C650	DI-N-BUTYL PHTHALATE	149	819	50	122972	1.177	1.821
C655	FLUORANTHENE	202	855	50	95536	1.228	1.414
C715	PYRENE	202	880	50	98142	0.840	1.678
C720	BUTYL BENZYL PHTHALATE	149	1013	50	53366	0.968	0.913
C725	3,3'-DICHLOROBENZIDINE	252	1061	50	22364	1.013	0.382
C730	BENZO(A)ANTHRACENE	228	1046	50	83819	0.999	1.433
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1108	50	86123	1.058	1.473
C740	CHRYSENE	228	1050	50	57646	1.003	0.986
C760	DI-N-OCTYL PHTHALATE	149	1187	50	148319	0.971	2.817
C765	BENZO(B)FLUORANTHENE	252	1181	50	91310	0.966	1.734
C770	BENZO(K)FLUORANTHENE	252	1184	50	56136	0.969	1.066
C775	BENZO(A)PYRENE	252	1215	50	59271	0.994	1.126
C780	INDENO(1,2,3-CD)PYRENE	276	1335	50	44702	1.092	0.849
C785	DIBENZO(A,H)ANTHRACENE	278	1342	50	43739	1.098	0.831
C790	BENZO(GHI)PERYLENE	276	1357	50	47831	1.110	0.908
C620	1,2-DIPHENYL-HYDRAZINE	77	609	50	70161	0.875	1.039

000032

CCC033



011712

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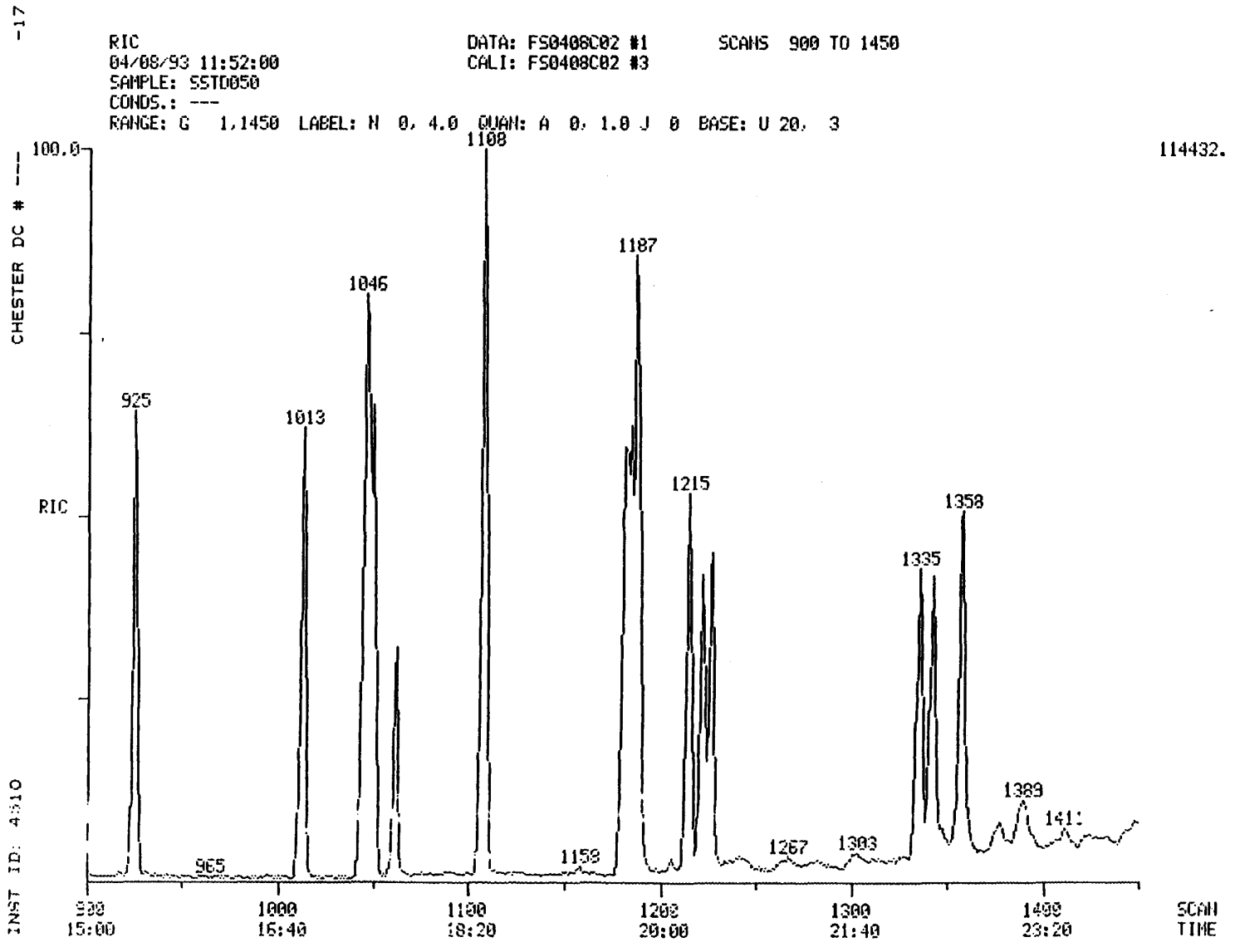

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011713

011713

Quantitation Report File: F50408C02

Data: F50408C02.TI
04/08/93 11:52:00
Sample: SSTD050
Conds.: ---
Formula: 04/08/93 Instrument: 4510 Weight: 1.001
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

011714

AMOUNT: AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL ** SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	157	2:37	1	1.000	M XX	13242.	40.000 UG/L	0.95
2	136	287	4:47	2	1.000	A BB	51347.	40.000 UG/L	0.95
3	164	507	8:27	3	1.000	M XX	33928.	40.000 UG/L	0.95
4	188	696	11:36	4	1.000	M XX	54036.	40.000 UG/L	0.95
5	240	1047	17:27	5	1.000	A BB	46784.	40.000 UG/L	0.95
6	264	1222	20:22	6	1.000	A BB	42125.	40.000 UG/L	0.95
7	112	83	1:23	1	0.529	A BB	22804.	50.000 UG/L	1.19
8	79	155	2:35	1	0.987	A BB	33988.	50.000 UG/L	1.19
9	330	614	10:14	3	1.211	A BB	6263.	50.000 UG/L	1.19
10	82	214	3:34	2	0.746	A BB	25268.	50.000 UG/L	1.19
11	172	433	7:13	3	0.854	A BB	50948.	50.000 UG/L	1.19
12	244	925	15:25	5	0.883	A BB	78340.	50.000 UG/L	1.19
13	94	156	2:36	1	0.994	A BB	28408.	50.000 UG/L	1.19
14	93	146	2:26	1	0.930	A VB	25152.	50.000 UG/L	1.19
15	128	148	2:28	1	0.943	A BB	22830.	50.000 UG/L	1.19
16	146	153	2:33	1	0.975	M XX	25406.	50.000 UG/L	1.19
17	146	158	2:38	1	1.006	A VB	26130.	50.000 UG/L	1.19
18	108	183	3:03	1	1.166	M XX	14479.	50.000 UG/L	1.19
19	146	174	2:54	1	1.108	A BB	23469.	50.000 UG/L	1.19
20	108	210	3:30	1	1.338	A BB	26922.	50.000 UG/L	1.19
21	45	197	3:17	1	1.255	A BB	42661.	50.000 UG/L	1.19
22	108	227	3:47	1	1.446	A BB	28037.	50.000 UG/L	1.19
23	70	212	3:32	1	1.350	A BB	22095.	50.000 UG/L	1.19
24	117	202	3:22	1	1.287	A BB	10122.	50.000 UG/L	1.19
25	77	216	3:36	2	0.753	A VB	25979.	50.000 UG/L	1.19
26	82	245	4:05	2	0.854	A BB	49962.	50.000 UG/L	1.19
27	139	250	4:10	2	0.871	A BB	13254.	50.000 UG/L	1.19
28	107	280	4:40	2	0.976	A BB	19903.	50.000 UG/L	1.19
29	122	319	5:19	2	1.111	A BB	17689.	50.000 UG/L	1.19
30	93	281	4:41	2	0.979	A BB	29773.	50.000 UG/L	1.19
31	162	290	4:50	2	1.010	A BB	19830.	50.000 UG/L	1.19
32	180	285	4:45	2	0.993	A BB	21183.	50.000 UG/L	1.19
33	128	289	4:49	2	1.007	A BB	70696.	50.000 UG/L	1.19
34	127	311	5:11	2	1.084	M XX	28344.	50.000 UG/L	1.19
35	225	319	5:19	2	1.111	A BB	9867.	50.000 UG/L	1.19
36	107	397	6:37	2	1.383	A BB	20344.	50.000 UG/L	1.19
37	142	375	6:15	2	1.307	M XX	54846.	50.000 UG/L	1.19
38	237	408	6:48	3	0.805	A BB	10599.	50.000 UG/L	1.19
39	196	427	7:07	3	0.842	A BB	13836.	50.000 UG/L	1.19
40	196	440	7:20	3	0.868	A BB	16637.	50.000 UG/L	1.19
41	162	434	7:14	3	0.856	A BB	46475.	50.000 UG/L	1.19
42	65	464	7:44	3	0.915	A BB	16856.	50.000 UG/L	1.19
43	163	502	8:22	3	0.990	A BV	49075.	50.000 UG/L	1.19
44	152	485	8:05	3	0.957	A BB	70752.	50.000 UG/L	1.19
45	138	520	8:40	3	1.026	A BB	14614.	50.000 UG/L	1.19
46	153	511	8:31	3	1.008	A BB	39280.	50.000 UG/L	1.19
47	184	533	8:53	3	1.051	A BB	7451.	50.000 UG/L	1.19
48	109	586	9:46	3	1.156	A BV	4569.	50.000 UG/L	1.19
49	168	533	8:53	3	1.051	A BB	68681.	50.000 UG/L	1.19
50	165	553	9:13	3	1.091	A BB	15675.	50.000 UG/L	1.19

011715

000036

No	Rt(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	2:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	8:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	11:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	20:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:23	1.00	0.529	1.00	50.00	50.00	1.378	1.378	1.00
8	2:35	1.00	0.987	1.00	50.00	50.00	2.053	2.053	1.00
9	10:14	1.00	1.211	1.00	50.00	50.00	0.148	0.148	1.00
10	3:34	1.00	0.746	1.00	50.00	50.00	0.394	0.394	1.00
11	7:13	1.00	0.854	1.00	50.00	50.00	1.201	1.201	1.00
12	15:25	1.00	0.883	1.00	50.00	50.00	1.340	1.340	1.00
13	2:36	1.00	0.994	1.00	50.00	50.00	1.716	1.716	1.00
14	2:26	1.00	0.930	1.00	50.00	50.00	1.520	1.520	1.00
15	2:28	1.00	0.943	1.00	50.00	50.00	1.379	1.379	1.00
16	2:33	1.00	0.975	1.00	50.00	50.00	1.535	1.535	1.00
17	2:38	1.00	1.006	1.00	50.00	50.00	1.579	1.579	1.00
18	3:03	1.00	1.166	1.00	50.00	50.00	0.875	0.875	1.00
19	2:54	1.00	1.108	1.00	50.00	50.00	1.418	1.418	1.00
20	3:30	1.00	1.338	1.00	50.00	50.00	1.626	1.626	1.00
21	3:17	1.00	1.255	1.00	50.00	50.00	2.577	2.577	1.00
22	3:47	1.00	1.446	1.00	50.00	50.00	1.694	1.694	1.00
23	3:32	1.00	1.350	1.00	50.00	50.00	1.335	1.335	1.00
24	3:22	1.00	1.287	1.00	50.00	50.00	0.612	0.612	1.00
25	3:36	1.00	0.753	1.00	50.00	50.00	0.405	0.405	1.00
26	4:05	1.00	0.854	1.00	50.00	50.00	0.778	0.778	1.00
27	4:10	1.00	0.871	1.00	50.00	50.00	0.207	0.207	1.00
28	4:40	1.00	0.976	1.00	50.00	50.00	0.310	0.310	1.00
29	5:19	1.00	1.111	1.00	50.00	50.00	0.276	0.276	1.00
30	4:41	1.00	0.979	1.00	50.00	50.00	0.464	0.464	1.00
31	4:50	1.00	1.010	1.00	50.00	50.00	0.309	0.309	1.00
32	4:45	1.00	0.993	1.00	50.00	50.00	0.330	0.330	1.00
33	4:49	1.00	1.007	1.00	50.00	50.00	1.101	1.101	1.00
34	5:11	1.00	1.084	1.00	50.00	50.00	0.442	0.442	1.00
35	5:19	1.00	1.111	1.00	50.00	50.00	0.154	0.154	1.00
36	6:37	1.00	1.383	1.00	50.00	50.00	0.317	0.317	1.00
37	6:15	1.00	1.307	1.00	50.00	50.00	0.855	0.855	1.00
38	6:48	1.00	0.805	1.00	50.00	50.00	0.250	0.250	1.00
39	7:07	1.00	0.842	1.00	50.00	50.00	0.326	0.326	1.00
40	7:20	1.00	0.868	1.00	50.00	50.00	0.392	0.392	1.00
41	7:14	1.00	0.856	1.00	50.00	50.00	1.096	1.096	1.00
42	7:44	1.00	0.915	1.00	50.00	50.00	0.397	0.397	1.00
43	8:22	1.00	0.990	1.00	50.00	50.00	1.157	1.157	1.00
44	8:05	1.00	0.957	1.00	50.00	50.00	1.668	1.668	1.00
45	8:40	1.00	1.026	1.00	50.00	50.00	0.345	0.345	1.00
46	8:31	1.00	1.008	1.00	50.00	50.00	0.926	0.926	1.00
47	8:53	1.00	1.051	1.00	50.00	50.00	0.176	0.176	1.00
48	9:46	1.00	1.156	1.00	50.00	50.00	0.108	0.108	1.00
49	8:53	1.00	1.051	1.00	50.00	50.00	1.619	1.619	1.00
50	9:13	1.00	1.091	1.00	50.00	50.00	0.370	0.370	1.00

Quantitation Report File: FS0408C02

Data: FS0408C02.TI
04/08/93 11:52:00
Sample: SSTD050
Conds.: ---
Formula: 04/08/93 Instrument: 4510 Weight: 1.001
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

011717

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	C570	2-CHLOROPHENOL-D4 ** SU7 **	
81	C575	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	
83	C320	ANILINE	
84	A950	PYRIDINE	
85	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	505	8:25	3	0.996	A BB	16492.	50.000 UG/L	1.19
52	149	599	9:59	3	1.181	A BB	48439.	50.000 UG/L	1.19
53	204	590	9:50	3	1.164	A BB	26791.	50.000 UG/L	1.19
54	166	577	9:37	3	1.138	A BB	53263.	50.000 UG/L	1.19
55	138	602	10:02	3	1.187	A BB	14168.	50.000 UG/L	1.19
56	198	605	10:05	4	0.869	A BB	10585.	50.000 UG/L	1.19
57	169	611	10:11	4	0.878	A BB	43883.	50.000 UG/L	1.19
58	248	651	10:51	4	0.935	A BB	13563.	50.000 UG/L	1.19

000030

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
59	284	659	10:59	4	0.947	A BB	13750.	50.000 UG/L	1.19
60	266	694	11:34	4	0.997	A BB	8838.	50.000 UG/L	1.19
61	178	698	11:38	4	1.003	M XX	81660.	50.000 UG/L	1.19
62	178	704	11:44	4	1.011	A VB	85410.	50.000 UG/L	1.19
63	149	819	13:39	4	1.177	A BB	122972.	50.000 UG/L	1.19
64	202	855	14:15	4	1.228	A BB	95536.	50.000 UG/L	1.19
65	202	880	14:40	5	0.840	A BB	98142.	50.000 UG/L	1.19
66	187	1013	16:53	5	0.968	A BB	53366.	50.000 UG/L	1.19
67	252	1061	17:41	5	1.013	A BB	22364.	50.000 UG/L	1.19
68	278	1046	17:26	5	0.999	A BV	83819.	50.000 UG/L	1.19
69	149	1108	18:28	5	1.058	A BB	86123.	50.000 UG/L	1.19
70	278	1050	17:30	5	1.003	A VB	57646.	50.000 UG/L	1.19
71	149	1187	19:47	6	0.971	A BB	148319.	50.000 UG/L	1.19
72	252	1181	19:41	6	0.966	M XX	91310.	50.000 UG/L	1.19
73	252	1184	19:44	6	0.969	M XX	56136.	50.000 UG/L	1.19
74	252	1215	20:15	6	0.994	A BB	59271.	50.000 UG/L	1.19
75	276	1335	22:15	6	1.092	A BV	44702.	50.000 UG/L	1.19
76	278	1342	22:22	6	1.098	A VV	43739.	50.000 UG/L	1.19
77	276	1357	22:37	6	1.110	A BB	47831.	50.000 UG/L	1.19
78	74	32	0:32	1	0.204	A VB	30134.	50.000 UG/L	1.19
79	184	894	14:54	5	0.854	A BB	26357.	50.000 UG/L	1.19
80	132	147	2:27	1	0.936	A BB	31128.	50.000 UG/L	1.19
81	132	173	2:53	1	1.102	M XX	14419.	50.000 UG/L	1.19
82	167	739	12:19	4	1.062	M XX	84087.	50.000 UG/L	1.19
83	93	138	2:18	1	0.879	M XX	26558.	50.000 UG/L	1.19
84	79	32	0:32	1	0.204	M XX	43546.	50.000 UG/L	1.19
85	77	609	10:09	4	0.875	M XX	70161.	50.000 UG/L	1.19

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	8:25	1.00	0.996	1.00	50.00	50.00	0.389	0.389	1.00
52	9:59	1.00	1.181	1.00	50.00	50.00	1.142	1.142	1.00
53	9:50	1.00	1.164	1.00	50.00	50.00	0.632	0.632	1.00
54	9:37	1.00	1.138	1.00	50.00	50.00	1.256	1.256	1.00
55	10:02	1.00	1.187	1.00	50.00	50.00	0.334	0.334	1.00
56	10:05	1.00	0.869	1.00	50.00	50.00	0.157	0.157	1.00
57	10:11	1.00	0.878	1.00	50.00	50.00	0.650	0.650	1.00
58	10:51	1.00	0.935	1.00	50.00	50.00	0.201	0.201	1.00
59	10:59	1.00	0.947	1.00	50.00	50.00	0.204	0.204	1.00
60	11:34	1.00	0.997	1.00	50.00	50.00	0.131	0.131	1.00
61	11:38	1.00	1.003	1.00	50.00	50.00	1.209	1.209	1.00
62	11:44	1.00	1.011	1.00	50.00	50.00	1.264	1.264	1.00
63	13:39	1.00	1.177	1.00	50.00	50.00	1.821	1.821	1.00
64	14:15	1.00	1.228	1.00	50.00	50.00	1.414	1.414	1.00
65	14:40	1.00	0.840	1.00	50.00	50.00	1.678	1.678	1.00
66	16:53	1.00	0.968	1.00	50.00	50.00	0.913	0.913	1.00
67	17:41	1.00	1.013	1.00	50.00	50.00	0.382	0.382	1.00
68	17:26	1.00	0.999	1.00	50.00	50.00	1.433	1.433	1.00
69	18:28	1.00	1.058	1.00	50.00	50.00	1.473	1.473	1.00
70	17:30	1.00	1.003	1.00	50.00	50.00	0.986	0.986	1.00
71	19:47	1.00	0.971	1.00	50.00	50.00	2.817	2.817	1.00
72	19:41	1.00	0.966	1.00	50.00	50.00	1.734	1.734	1.00
73	19:44	1.00	0.969	1.00	50.00	50.00	1.066	1.066	1.00
74	20:15	1.00	0.994	1.00	50.00	50.00	1.126	1.126	1.00
75	22:15	1.00	1.092	1.00	50.00	50.00	0.849	0.849	1.00
76	22:22	1.00	1.098	1.00	50.00	50.00	0.831	0.831	1.00
77	22:37	1.00	1.110	1.00	50.00	50.00	0.908	0.908	1.00

011718

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	0:32	1.00	0.204	1.00	50.00	50.00	1.821	1.821	1.00
79	14:54	1.00	0.854	1.00	50.00	50.00	0.451	0.451	1.00
80	2:27	1.00	0.936	1.00	50.00	50.00	1.881	1.881	1.00
81	2:53	1.00	1.102	1.00	50.00	50.00	0.871	0.871	1.00
82	12:19	1.00	1.062	1.00	50.00	50.00	1.245	1.245	1.00
83	2:18	1.00	0.879	1.00	50.00	50.00	1.604	1.604	1.00
84	0:32	1.00	0.204	1.00	50.00	50.00	2.631	2.631	1.00
85	10:09	1.00	0.875	1.00	50.00	50.00	1.039	1.039	1.00

011719

000040

011720

THE FOLLOWING DATA IS

FOR QA/QC

000041

011721

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE.

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	04/08/93	Sens Time:	11:35:00
Lab ID:	FS0408C01D	Cali Date:	04/08/93	Analyst:	JDD

Data release authorized by: Juanita D Drummond

M/E	Ion Abundance Criteria	Spec # 216	
51	30 to 60% of mass 198	45.36	
68	less than 2% of mass 69	0.77	(1.91) 1
69	mass 69 relative abundance	40.18	
70	less than 2% of mass 69	0.75	(1.88) 1
127	40 TO 60% of mass 198	51.45	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.37	
275	10 TO 30% of mass 198	20.97	
365	greater than 1% of mass 198	1.48	
441	less than mass 443	5.55	
442	greater than 40% of mass 198	51.60	
443	17 TO 23% of mass 442	9.62	(18.64) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

000042

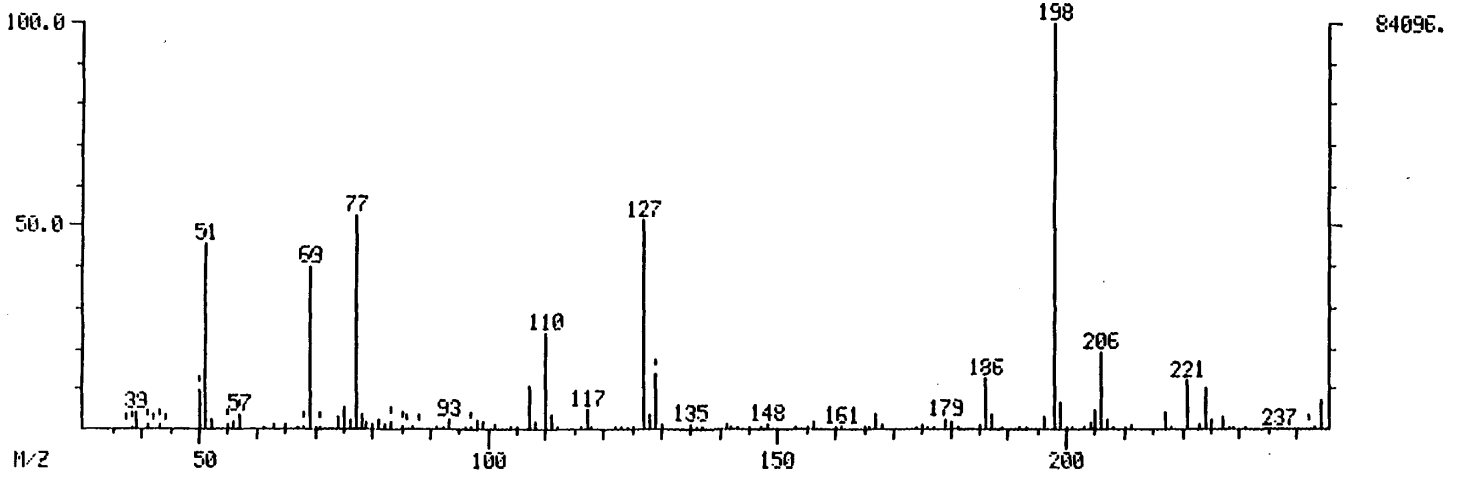
-15

CHESTER DC # ---

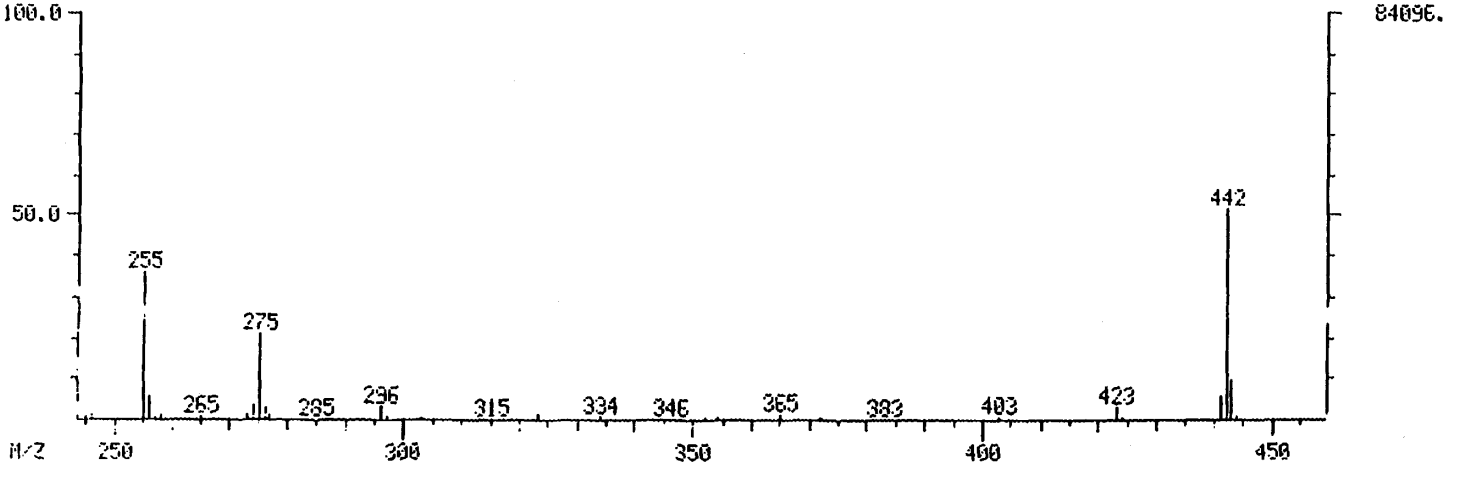
MASS SPECTRUM
04/08/93 11:35:00 + 3:37
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:*158 DEG. C
#216 TO #218 SUMMED - #202

DATA: FS0408C01D #217
CALI: FS0408C01D #3

BASE M/Z: 198
RIC: 588800.



DFTPP SPECTRA



INST ID: 4510

011722

INST ID: 4510 CHESTER DC # --- -15

DFTPP MASS LISTING

Mass List Data: FS0408C01D # 217 Base m/z: 198

04/08/93 11:35:00 + 3:37 Cali: FS0408C01D # 3 RIC: 588800.

Sample: DFTPP

Conds.: ---

#216 to #218 summed - #202

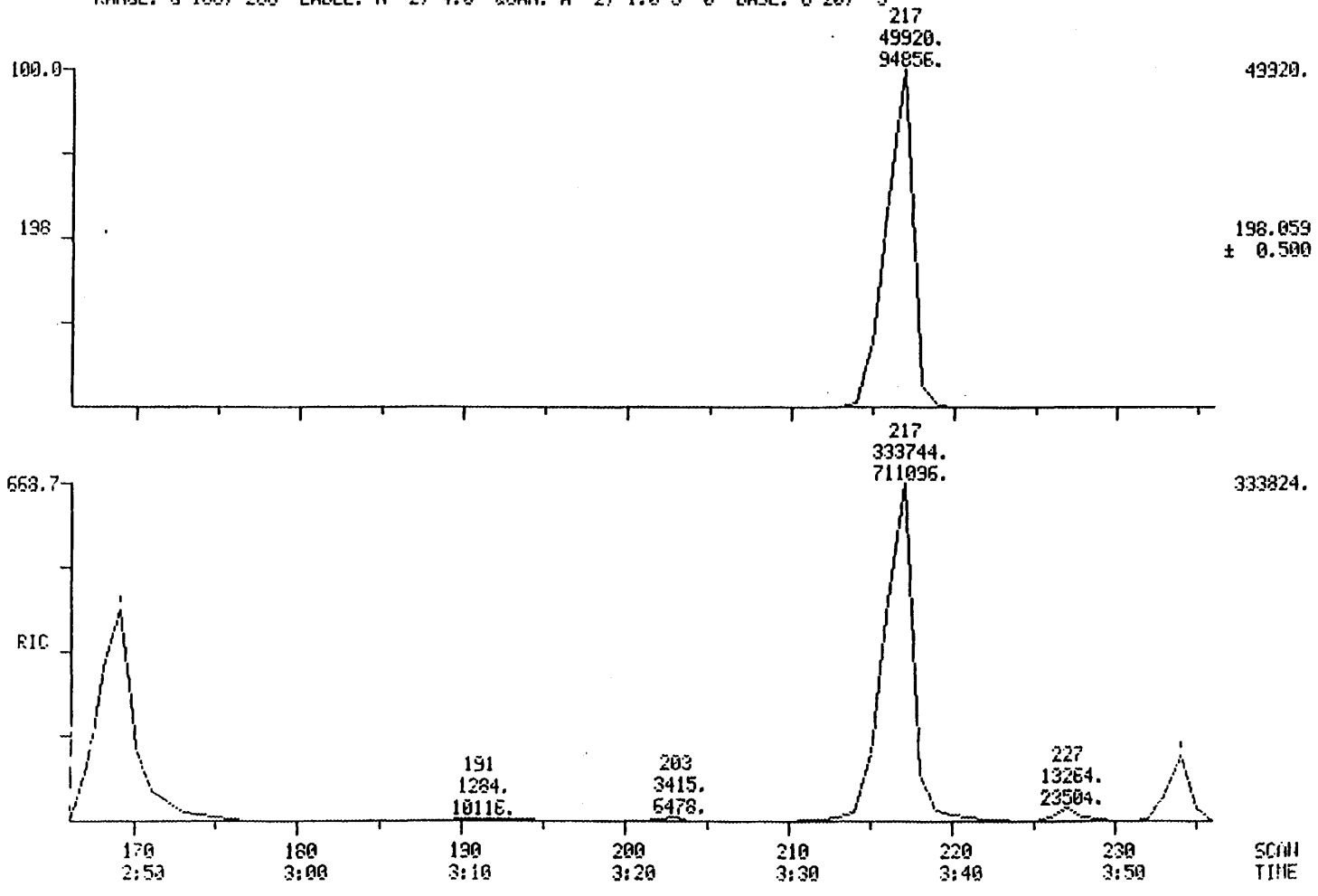
37		0.00	0.	Minima	Min Inten:		430.
444				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
38?	S	0.54	456.	167		3.39	2852.
39?		4.18	3516.	168		1.36	1144.
41	S	1.20	1009.	174		0.55	459.
43	S	1.45	1220.	175		1.32	1110.
50	S	9.47	7968.	179		2.31	1940.
51	S	45.36	38144.	180		1.74	1466.
52		2.21	1860.	181		0.87	728.
55	S	1.29	1084.	185		1.08	909.
56		1.91	1608.	186		12.46	10480.
57	S	3.89	3268.	187		3.67	3088.
63		0.99	831.	192		0.63	530.
65		0.95	803.	193		0.73	614.
68	S	0.77	644.	196		3.23	2716.
69	S	40.18	33792.	198		100.00	84096.
70		0.75	634.	199		6.37	5360.
74		2.89	2428.	201		0.51	431.
75		5.14	4320.	204		2.03	1706.
76		2.29	1922.	205		4.61	3876.
77		52.51	44160.	206		19.14	16096.
78		3.35	2816.	207		2.40	2018.
79		1.66	1398.	211		1.11	933.
80		1.44	1212.	217		4.06	3416.
81		2.47	2076.	221		11.85	9968.
82		1.05	885.	223		0.94	791.
83	S	1.91	1610.	224		9.91	8336.
93		2.47	2080.	225		2.38	2004.
97	S	0.69	581.	227		2.74	2304.
98		2.24	1886.	229		0.75	630.
99		1.69	1422.	244		7.34	6176.
101		1.25	1048.	245		0.87	734.
105		0.62	525.	246		1.01	848.
107		10.64	8944.	255		36.19	30432.
108		1.68	1412.	256		5.24	4408.
110		23.86	20064.	258		1.38	1162.
111		3.60	3024.	265		0.53	446.
117		4.68	3936.	273		1.07	897.
123		0.63	529.	274		3.34	2808.
125		0.63	529.	275		20.97	17632.
127		51.45	43264.	276		2.71	2276.
128		3.78	3180.	277		1.23	1034.
129	S	13.64	11472.	296		3.27	2748.
130		0.96	811.	323		1.24	1044.
135		0.96	806.	334		0.77	644.
141		1.29	1086.	365		1.48	1248.
145		0.68	572.	372		0.60	506.
147		0.72	606.	423		2.79	2344.
148		1.35	1134.	441		5.55	4664.
155		0.67	566.	442		51.60	43392.
156		1.71	1436.	443		9.62	8088.
161		0.87	732.	444		0.80	675.

011723

000041

011723

RIC+MASS CHROMATOGRAM DATA: FS0408C01D #216 SCANS 166 TO 236
04/08/93 11:35:00 CALI: FS0408C01D #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 166, 266 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



000045

011724

011724

INST ID: 4510

SAMPLE NUMBER: SBLK

011725

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: Ray

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/6/93
DATE ANALYZED: 04/08/93

DATAFILE: 9B04036C01

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

000042

INST ID: 4510

SAMPLE NUMBER: SBLK

011726

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

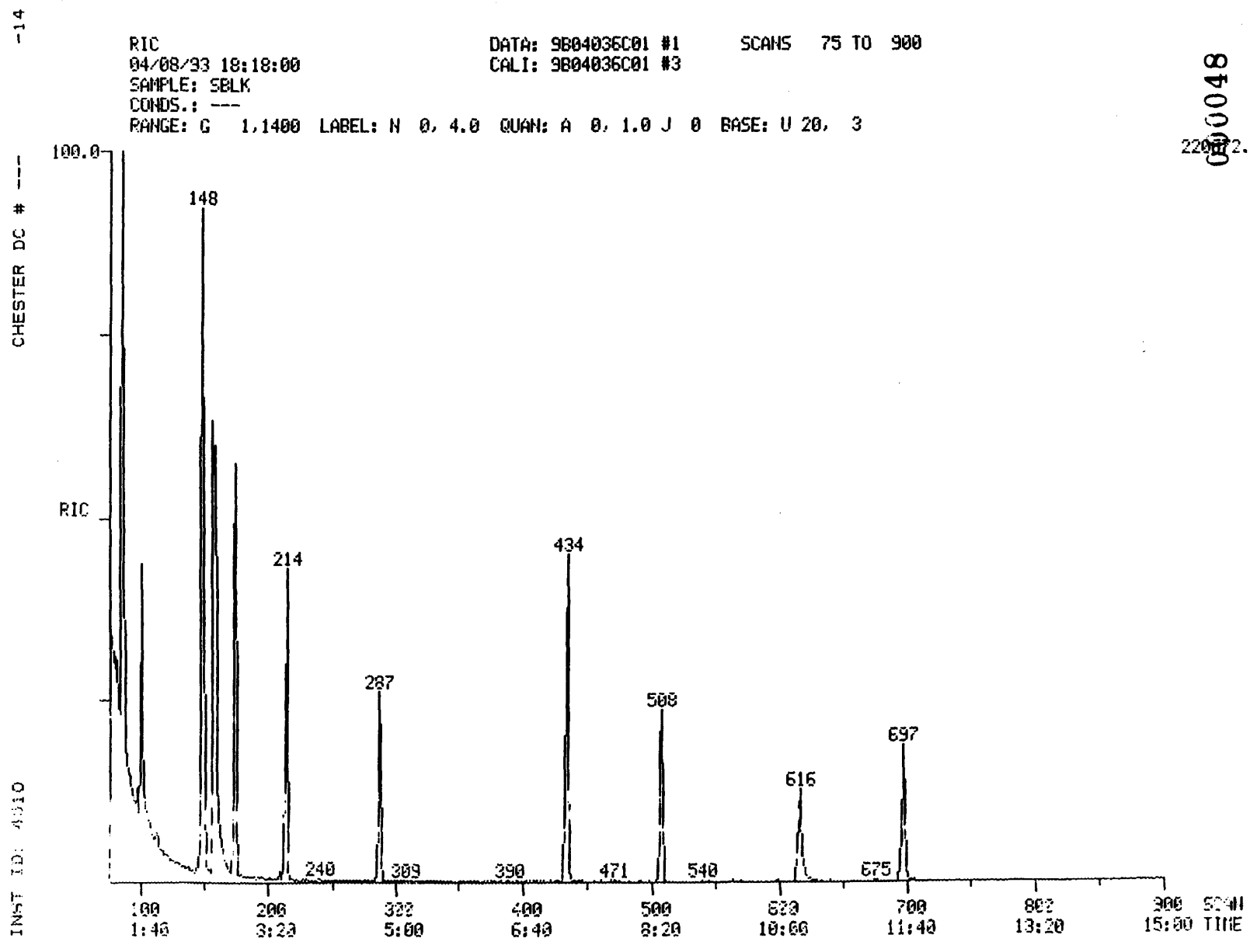
SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/6/93
DATE ANALYZED: 04/08/93

DATAFILE: 9B04036C01

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	330 U	
C540	ACENAPHTHYLENE	330 U	
C550	ACENAPHTHENE	330 U	
C590	FLUORENE	330 U	
C640	PHENANTHRENE	330 U	
C645	ANTHRACENE	330 U	
C655	FLUORANTHENE	330 U	
C715	PYRENE	330 U	
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	
C790	BENZO(GHI)PERYLENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



000048

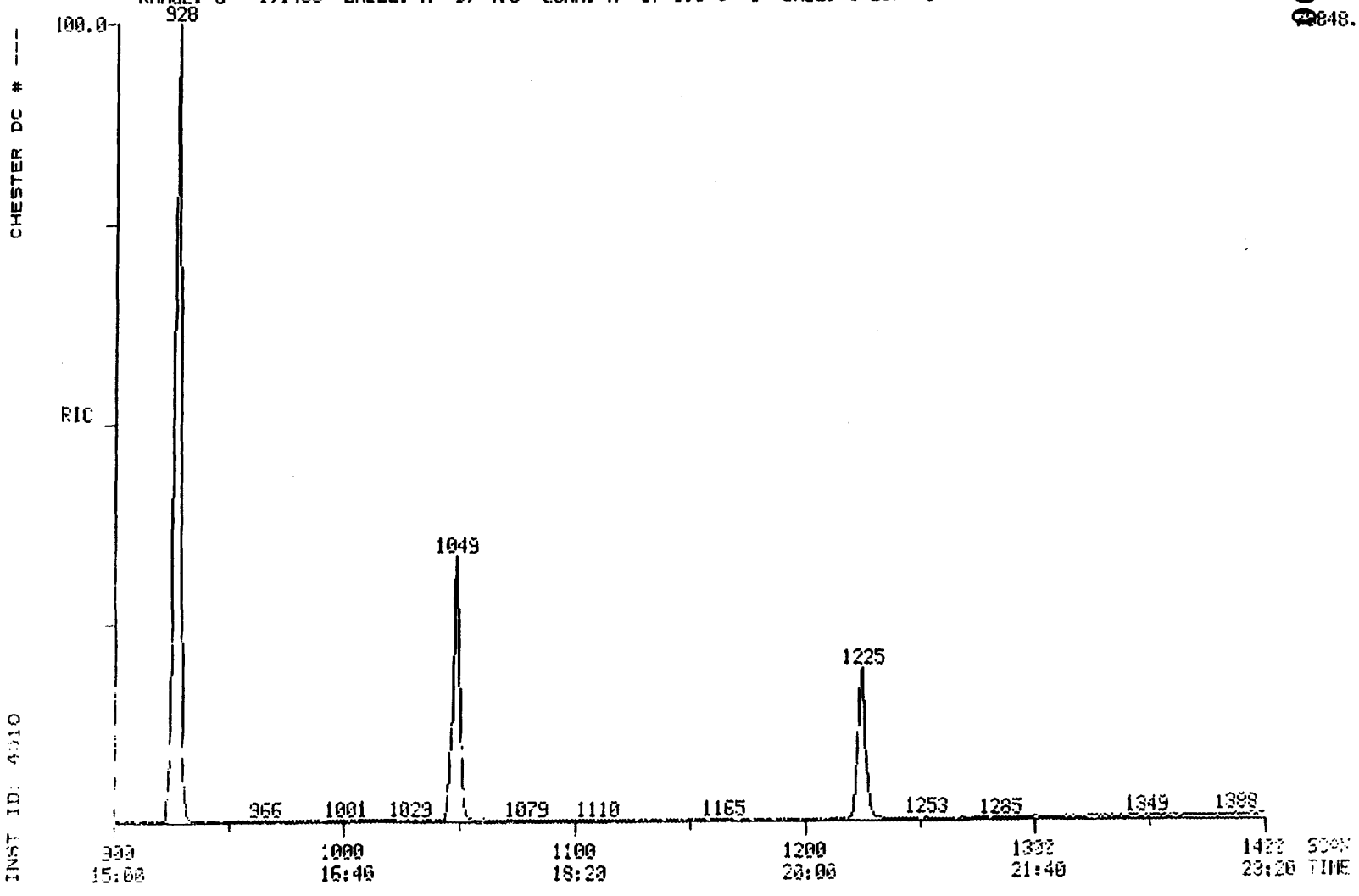
011727

011727

CHESTER DC # ---

RIC
04/08/93 18:18:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B04036C01 #1 SCANS 900 TO 1400
CALI: 9B04036C01 #3



INST ID: 4010

000049

011728

011729

SEMIVOLATILE SOIL REPORT

SAMPLE ID.	SBLK		
FILENAME	9B04036C01	INST ID.	4510
CLIENT	CHESTER	ANALYST	JDD
DATE INJECTED	04/08/93 18:18:00	VERIFIED BY	JDD
CALIB STD DATE	04/08/93	CORR. FACTOR	33.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
158	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	152	660 UG/KG	1.000	17116
207	CI40	NAPHTHALENE-D8 ** IS2 **	136	660 UG/KG	1.000	57496
508	CI50	ACENAPHTHENE-D10 ** IS3 **	164	660 UG/KG	1.000	35175
677	CI60	PHENANTHRENE-D10 ** IS4 **	188	660 UG/KG	1.000	54808
1049	CI70	CHRYSENE-D12 ** IS5 **	240	660 UG/KG	1.000	38811
1224	CI75	PERYLENE-D12 ** IS6 **	264	660 UG/KG	1.000	25676
85	CS50	2-FLUOROPHENOL ** SU1 **	112	88 %	0.538	79891
156	CS45	PHENOL-D5 ** SU2 **	99	91 %	0.987	123150
616	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	330	69 %	1.213	13514
148	CS70	2-CHLOROPHENOL-D4 ** SU7 **	132	74 %	0.937	89061
174	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	152	89 %	1.101	33078
214	CS20	NITROBENZENE-D5 ** SU3 **	82	92 %	0.746	52072
434	CS25	2-FLUOROBIPHENYL ** SU4 **	172	87 %	0.854	91621
928	CS30	TERPHENYL-D14 ** SU6 **	244	87 %	0.885	112802

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number 18804

Project Location South Cavalcade

Laboratory Chester

Sampler(s) Wes Fiandt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	PSA CPAH										TOTAL
SC-W8(SD) E	4/2/93	X										
SC-W8(SSD) E		X										
SC-W8(MCD) E		X										
SC-W8(C1/C2) E		X										
SC-W7(DWC) D		X										

Relinquished by: W [illegible]	Organization: Dames + Moore	Date: 4/5/93	Time		Seal Intact?
Received by: Ron Hargrove	Organization: KEYSTONE	Date: 4/5/93	Time	9:20	Yes No N/A
Relinquished by:	Organization:	Date: / /	Time		Seal Intact?
Received by:	Organization:	Date: / /	Time		Yes No N/A

000051

Special Instructions / Remarks:

Delivery Method: ☐ In Person ☐ Common Carrier _____ specify ☒ Lab Courier ☐ Other _____

011730

011730

DRY WEIGHT TEST

KEYSTONE LAB-HOUSTON

CLIENT DAMES MOOR

LAB NO. H93-0436

RUSH

IN: 12:00 p.m. ~~11:50 a.m.~~

OUT: 4:00 p.m. ~~3:15 p.m.~~

ANALYST BH

DATE 04-06-93

DASH NO.	I.D. NO.	TARE WT. (a)	TARE (b) + WET SX.	TARE (c) + DRY SX.	DIFF. IN WT. OF H_2O LOST(d)	CORRECTION FACTOR (e)	WT. OF SX. USED FOR EXTR. (f)	DRY WT. (g)	DRY WT. FACTOR (h)
002	SC-WB(SD)E	1.51	6.08	4.93	1.15	0.748			1.34
003	SC-WB(SSD)E	1.51	6.29	5.97	0.320	0.933			1.07
004	SC-WB(MCD)E	1.53	6.67	5.60	1.07	0.792			1.26
005	SC-WB(C1/C2)E	1.50	6.70	4.83	1.87	0.640			1.56
006	SC-W7(DWC)D	1.50	6.50	2.66	3.84	0.232			4.31
	Nothing Follows						Nothing Follows		

250000

960000

d = (b-a) - (c-a) g = f (c-a)/(b-a) h = f/g = 1/e e = c-a / b-a

Date Submitted: 04-06-93

Submitted By BH

Dry Wt. Ext. (Rev. 1/92)

011731

011731

KEYSTONE LAB - HOUSTON
Job Summary Sheet

Produced on 6-APR-1993

PRIORITY

011732

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-04.36
Due Date : 8-APR-1993
Date Rec'd : 5-APR-1993
Project ID :
P.O. Number: 18804

Attention: Contact: WES FIANDT

Job Description: DAMES & MOORE (RCRA)
Number of samples: 6 Sampled by: CLIENT

Job Comments:
RUSH!! 72 HOUR TURNAROUND. RESULTS DUE BY 4/8/93, MS_SV:FOR SV_TCL_SX, PLEASE ANALYZE FOR PAH'S!!
SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Pnt.	Sample Matrix	Date Sampled
36-001	LAB BLANK	QA_QC	SOIL	2-APR-93
36-002	SC-W8 (SD) E	X	SOIL	2-APR-93
36-003	SC-W8 (SSD) E	X	SOIL	2-APR-93
36-004	SC-W8 (MCD) E	X	SOIL	2-APR-93
36-005	SC-W8 (C1/C2) E	X	SOIL	2-APR-93
36-006	SC-W7 (DWC) D	X	SOIL	2-APR-93

Analysis ID	Parameter Description	Number of Analyses
DRY_WT	Dry Weight Factor	6
EXT_8270SX	(Soil) Extraction by EPA 8270	6
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil	6

000053

011733

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. ---
CONTRACT LAB: KEYSTONE
CONTRACT NO. ---
INSTRUMENT IDENTIFIER: 4510
CALIBRATION DATE: 04/08/93
STANDARD FILE: FS0412C02
DATE: 04/12/93 TIME: 11:59
MAXIMUM % D FOR CCC IS 20

	COMPOUND	MEAN RF(I)	RF(D)	% D
C315	PHENOL	1.764	1.902	7.796
C325	BIS(2-CHLOROETHYL)ETHE	1.783	1.508	-15.421
C330	2-CHLOROPHENOL	1.386	1.446	4.349
C335	1,3-DICHLOROBENZENE	1.503	1.550	3.147
C340	1,4-DICHLOROBENZENE	1.562	1.585	1.423
C345	BENZYL ALCOHOL	0.666	0.880	32.118
C350	1,2-DICHLOROBENZENE	1.429	1.413	-1.099
C355	2-METHYLPHENOL	1.522	1.648	8.308
C357	2,2'-OXYBIS(1-CHLOROPR	2.791	2.682	-3.918
C365	4-METHYLPHENOL	1.593	1.643	3.159
C370	N-NITROSODIPROPYLAMINE	1.410	1.489	5.582
C375	HEXACHLOROETHANE	0.613	0.616	0.398
C410	NITROBENZENE	0.411	0.430	4.748
C415	ISOPHORONE	0.799	0.833	4.271
C420	2-NITROPHENOL	0.218	0.212	-2.449
C425	2,4-DIMETHYLPHENOL	0.321	0.331	2.968
C430	BENZOIC ACID	0.223	0.261	16.954
C435	BIS(2-CHLOROETHOXY)MET	0.505	0.491	-2.947
C440	2,4-DICHLOROPHENOL	0.301	0.313	4.161
C445	1,2,4-TRICHLOROBENZENE	0.325	0.314	-3.440
C450	NAPHTHALENE	1.111	1.101	-0.878
C455	4-CHLOROANILINE	0.385	0.452	17.237
C460	HEXACHLOROBUTADIENE	0.142	0.133	-6.489
C465	P-CHLORO-M-CRESOL	0.296	0.307	3.623
C470	2-METHYLNAPHTHALENE	0.834	0.831	-0.315
C510	HEXACHLOROCYCLOPENTADI	0.255	0.247	-3.002
C515	2,4,6-TRICHLOROPHENOL	0.306	0.313	2.391
C520	2,4,5-TRICHLOROPHENOL	0.349	0.388	11.010
C525	2-CHLORONAPHTHALENE	1.074	1.100	2.506
C530	2-NITROANILINE	0.384	0.448	16.764
C535	DIMETHYL PHTHALATE	1.216	1.236	1.668
C540	ACENAPHTHYLENE	1.611	1.528	-5.144
C545	3-NITROANILINE	0.321	0.337	4.698
C550	ACENAPHTHENE	0.908	0.931	2.565
C555	2,4-DINITROPHENOL	0.154	0.156	1.633
C560	4-NITROPHENOL	0.085	0.104	22.396
C565	DIBENZOFURAN	1.526	1.509	-1.147
C570	2,4-DINITROTOLUENE	0.338	0.332	-1.882
C575	2,6-DINITROTOLUENE	0.341	0.379	11.175
C580	DIETHYL PHTHALATE	1.136	1.050	-7.642
C585	4-CHLOROPHENYL PHENYL	0.620	0.570	-8.012
C590	FLUORENE	1.174	1.127	-4.024
C595	4-NITROANILINE	0.298	0.300	0.616
C610	4,6-DINITRO-2-METHYLPH	0.154	0.146	-5.071
C615	N-NITROSODIPHENYLAMINE	0.691	0.640	-7.354
C625	4-BROMOPHENYL PHENYL E	0.217	0.191	-11.866
C630	HEXACHLOROBENZENE	0.198	0.193	-2.566
C635	PENTACHLOROPHENOL	0.127	0.127	0.463
C640	PHENANTHRENE	1.212	1.162	-4.140
C645	ANTHRACENE	1.273	1.250	-1.797
C650	DI-N-BUTYL PHTHALATE	1.658	1.692	2.029
C655	FLUORANTHENE	1.243	1.415	13.787

C715	PYRENE	1.691	1.596	-5.623
C720	BUTYL BENZYL PHTHALATE	0.924	0.824	-10.876
C725	3,3'-DICHLOROBENZIDINE	0.420	0.390	-7.180
C730	BENZO(A)ANTHRACENE	1.399	1.321	-5.582
C745	BIS(2-ETHYLHEXYL)PHTHA	1.469	1.254	-14.635
C740	CHRYSENE	1.096	1.088	-0.726
C760	DI-N-OCTYL PHTHALATE	2.871	2.471	-13.934
C765	BENZO(B)FLUORANTHENE	1.573	1.479	-5.920
C770	BENZO(K)FLUORANTHENE	1.021	1.053	3.124
C775	BENZO(A)PYRENE	1.138	1.134	-0.381
C780	INDENO(1,2,3-CD)PYRENE	0.790	0.786	-0.469
C785	DIBENZO(A,H)ANTHRACENE	0.784	0.768	-1.931
C790	BENZO(GHI)PERYLENE	0.877	0.918	4.725
C310	N-NITROSODIMETHYLAMINE	1.522	0.994	-34.640
C620	1,2-DIPHENYL-HYDRAZINE	1.081	1.039	-3.870
CS70	2-CHLOROPHENOL-D4 ** S	1.755	1.927	9.837
CS75	1,2-DICHLOROBENZENE-D4	0.852	0.870	2.174
C647	CARBAZOLE	1.184	1.241	4.799
CS50	2-FLUOROPHENOL ** SU1	1.283	1.480	15.348
CS45	PHENOL-D5 ** SU2 **	1.908	2.168	13.590
CS55	2,4,6-TRIBROMOPHENOL	0.127	0.133	5.096
CS20	NITROBENZENE-D5 ** SU3	0.389	0.440	13.024
CS25	2-FLUOROBIPHENYL ** SU	1.127	1.191	5.680
CS30	TERPHENYL-D14 ** SU6	1.329	1.267	-4.667
BENZENETHIOL				
METHYL CHRYSENE				
QUINOLINE				
C720	1-METHYLNAPHTHALENE			
7,12-DIMETHYLBENZ(A)ANTHRACE				
DIBENZ(A,H)ACRIDINE				
3+4-METHYLPHENOL				
INDENE				
A950	PYRIDINE			
A953	2,6-DICHLOROPHENOL			
A987	2,5-DICHLOROPHENOL			
A988	3,4-DICHLOROPHENOL			
A989	2,3-DICHLOROPHENOL			
A990	3,5-DICHLOROPHENOL			
A991	1,3,5-TRICHLOROBENZENE			
A992	1,2,3-TRICHLOROBENZENE			

011734

011734

CHESTER DC # ----17

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4510

LAB ID. FS0412C02

CLIENT CHESTER ANALYST JDD

DATE INJECTED 04/12/93 11:59:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	150	40	20763	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	279	40	78054	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	498	40	47261	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	686	40	68610	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1037	40	62365	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1211	40	59675	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	77	50	38405	0.513	1.480
CS45	PHENOL-D5 ** SU2 **	99	148	50	56264	0.987	2.168
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	605	50	7882	1.215	0.133
CS20	NITROBENZENE-D5 ** SU3 **	82	206	50	42894	0.738	0.440
CS25	2-FLUOROBIPHENYL ** SU4 **	172	424	50	70379	0.851	1.191
CS30	TERPHENYL-D14 ** SU6 **	244	916	50	98786	0.883	1.267
C315	PHENOL	94	149	50	49363	0.993	1.902
C325	BIS(2-CHLOROETHYL)ETHER	93	139	50	39129	0.927	1.508
C330	2-CHLOROPHENOL	128	141	50	37524	0.940	1.446
C335	1,3-DICHLOROBENZENE	146	146	50	40228	0.973	1.550
C340	1,4-DICHLOROBENZENE	146	151	50	41124	1.007	1.585
C345	BENZYL ALCOHOL	108	175	50	22833	1.167	0.880
C350	1,2-DICHLOROBENZENE	146	167	50	36682	1.113	1.413
C355	2-METHYLPHENOL	108	202	50	42772	1.347	1.648
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	189	50	69609	1.260	2.682
C365	4-METHYLPHENOL	108	219	50	42652	1.460	1.643
C370	N-NITROSODIPROPYLAMINE	70	205	50	38633	1.367	1.489
C375	HEXACHLOROETHANE	117	194	50	15980	1.293	0.616
C410	NITROBENZENE	77	208	50	41988	0.746	0.430
C415	ISOPHORONE	82	237	50	81258	0.849	0.833
C420	2-NITROPHENOL	139	243	50	20707	0.871	0.212
C425	2,4-DIMETHYLPHENOL	107	272	50	32299	0.975	0.331
C430	BENZOIC ACID	122	311	50	25452	1.115	0.261
C435	BIS(2-CHLOROETHOXY)METHANE	93	274	50	47859	0.982	0.491
C440	2,4-DICHLOROPHENOL	162	281	50	30552	1.007	0.313
C445	1,2,4-TRICHLOROBENZENE	180	277	50	30595	0.993	0.314
C450	NAPHTHALENE	128	281	50	107416	1.007	1.101
C455	4-CHLOROANILINE	127	302	50	44052	1.082	0.452
C460	HEXACHLOROBUTADIENE	225	311	50	12971	1.115	0.133
C465	P-CHLORO-M-CRESOL	107	388	50	29939	1.391	0.307
C470	2-METHYLNAPHTHALENE	142	366	50	81108	1.312	0.831
C510	HEXACHLOROCYCLOPENTADIENE	237	399	50	14620	0.801	0.247
C515	2,4,6-TRICHLOROPHENOL	196	418	50	18502	0.839	0.313
C520	2,4,5-TRICHLOROPHENOL	196	430	50	22907	0.863	0.388
C525	2-CHLORONAPHTHALENE	162	425	50	65013	0.853	1.100
C530	2-NITROANILINE	65	456	50	26468	0.916	0.448
C535	DIMETHYL PHTHALATE	163	493	50	73027	0.990	1.236
C540	ACENAPHTHYLENE	152	476	50	90269	0.956	1.528
C545	3-NITROANILINE	138	511	50	19881	1.026	0.337
C550	ACENAPHTHENE	153	502	50	55013	1.008	0.931

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SV STANDARD REPORT PAGE 2

DATAFILE FS0412C02

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	184	524	50	9245	1.052	0.156
C560	4-NITROPHENOL	109	575	50	6126	1.155	0.104
C565	DIBENZOFURAN	168	524	50	89143	1.052	1.509
C570	2,4-DINITROTOLUENE	165	544	50	19606	1.092	0.332
C543	2,6-DINITROTOLUENE	165	497	50	22376	0.998	0.379
C580	DIETHYL PHTHALATE	149	591	50	62001	1.187	1.050
C585	4-CHLOROPHENYL PHENYL ETHER	204	581	50	33669	1.167	0.570
C590	FLUORENE	166	568	50	66572	1.141	1.127
C595	4-NITROANILINE	138	593	50	17697	1.191	0.300
C610	4,6-DINITRO-2-METHYLPHENOL	198	596	50	12532	0.869	0.146
C615	N-NITROSODIPHENYLAMINE	169	602	50	54928	0.878	0.640
C625	4-BROMOPHENYL PHENYL ETHER	248	642	50	16397	0.936	0.191
C630	HEXACHLOROBENZENE	284	649	50	16522	0.946	0.193
C635	PENTACHLOROPHENOL	266	684	50	10923	0.997	0.127
C640	PHENANTHRENE	178	689	50	99622	1.004	1.162
C645	ANTHRACENE	178	694	50	107246	1.012	1.250
C650	DI-N-BUTYL PHTHALATE	149	810	50	145116	1.181	1.692
C655	FLUORANTHENE	202	845	50	121322	1.232	1.415
C715	PYRENE	202	870	50	124440	0.839	1.596
C720	BUTYL BENZYL PHTHALATE	149	1004	50	64217	0.968	0.824
C725	3,3'-DICHLOROBENZIDINE	252	1051	50	30376	1.014	0.390
C730	BENZO(A)ANTHRACENE	228	1035	50	103000	0.998	1.321
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1099	50	97761	1.060	1.254
C740	CHRYSENE	228	1040	50	84804	1.003	1.088
C760	DI-N-OCTYL PHTHALATE	149	1178	50	184343	0.973	2.471
C765	BENZO(B)FLUORANTHENE	252	1171	50	110358	0.967	1.479
C770	BENZO(K)FLUORANTHENE	252	1173	50	78528	0.969	1.053
C775	BENZO(A)PYRENE	252	1204	50	84600	0.994	1.134
C780	INDENO(1,2,3-CD)PYRENE	276	1324	50	58616	1.093	0.786
C785	DIBENZO(A,H)ANTHRACENE	278	1331	50	57317	1.099	0.768
C790	BENZO(GHI)PERYLENE	276	1346	50	68498	1.111	0.918
C620	1,2-DIPHENYL-HYDRAZINE						

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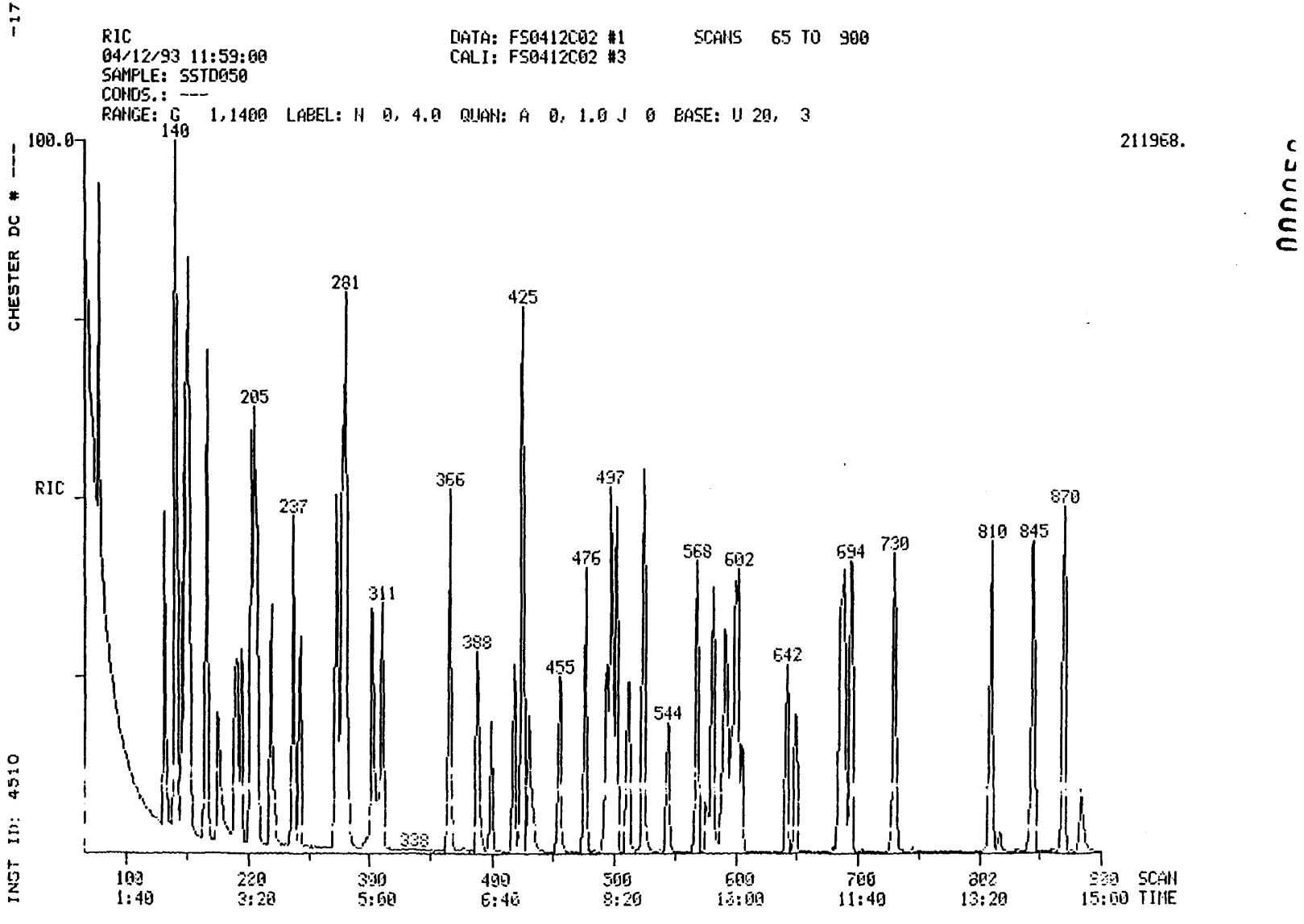
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RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
211968.
CHESTER DC # ---
100.0
RIC
INST ID: 4510
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476
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870
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TIME

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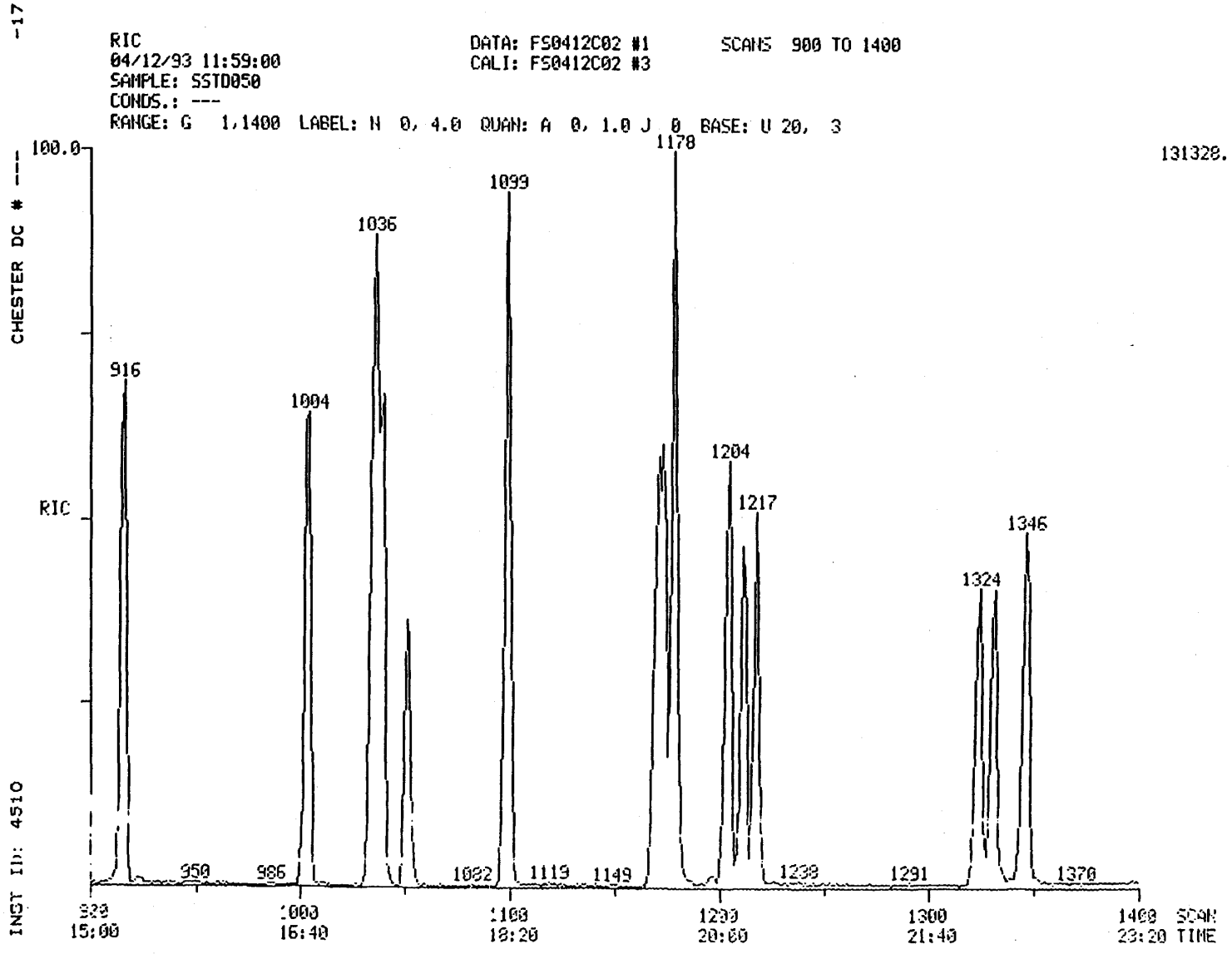

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Quantitation Report File: FS0412C02

Data: FS0412C02.TI
04/12/93 11:59:00
Sample: SSTD050
Conds.: ---
Formula: 04/08/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL ** SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

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No	Name		
46	C060	4-NITROPHENOL	7A
47	C065	DIBENZOFURAN	
50	C070	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	150	2:30	1	1.000	A BB	20763.	40.000 UG/L	0.99
2	136	279	4:39	2	1.000	A BB	78054.	40.000 UG/L	0.99
3	164	498	8:18	3	1.000	M XX	47261.	40.000 UG/L	0.99
4	188	686	11:26	4	1.000	A BB	68610.	40.000 UG/L	0.99
5	240	1037	17:17	5	1.000	A BB	62365.	40.000 UG/L	0.99
6	264	1211	20:11	6	1.000	A BB	59675.	40.000 UG/L	0.99
7	112	77	1:17	1	0.513	A BB	38405.	50.000 UG/L	1.24
8	99	148	2:28	1	0.987	A BB	56264.	50.000 UG/L	1.24
9	340	605	10:05	3	1.215	A BB	7882.	50.000 UG/L	1.24
10	82	206	3:26	2	0.738	A BB	42894.	50.000 UG/L	1.24
11	172	424	7:04	3	0.851	A BB	70379.	50.000 UG/L	1.24
12	244	916	15:16	5	0.883	A BB	98786.	50.000 UG/L	1.24
13	94	149	2:29	1	0.993	A BB	49363.	50.000 UG/L	1.24
14	93	139	2:19	1	0.927	A VB	39129.	50.000 UG/L	1.24
15	128	141	2:21	1	0.940	A BB	37524.	50.000 UG/L	1.24
16	146	146	2:26	1	0.973	A BV	40228.	50.000 UG/L	1.24
17	146	151	2:31	1	1.007	A VB	41124.	50.000 UG/L	1.24
18	108	175	2:55	1	1.167	A BB	22833.	50.000 UG/L	1.24
19	146	167	2:47	1	1.113	A BB	36682.	50.000 UG/L	1.24
20	108	202	3:22	1	1.347	A BB	42772.	50.000 UG/L	1.24
21	45	189	3:09	1	1.260	A BB	69609.	50.000 UG/L	1.24
22	108	219	3:39	1	1.460	A BB	42652.	50.000 UG/L	1.24
23	70	205	3:25	1	1.367	A BB	38633.	50.000 UG/L	1.24
24	117	194	3:14	1	1.293	A BB	15980.	50.000 UG/L	1.24
25	77	208	3:28	2	0.746	A VB	41988.	50.000 UG/L	1.24
26	82	237	3:57	2	0.849	A BB	81258.	50.000 UG/L	1.24
27	139	243	4:03	2	0.871	A BB	20707.	50.000 UG/L	1.24
28	107	272	4:32	2	0.975	A BB	32299.	50.000 UG/L	1.24
29	122	311	5:11	2	1.115	A BB	25452.	50.000 UG/L	1.24
30	93	274	4:34	2	0.982	A BB	47859.	50.000 UG/L	1.24
31	162	281	4:41	2	1.007	A BB	30552.	50.000 UG/L	1.24
32	180	277	4:37	2	0.993	A BB	30595.	50.000 UG/L	1.24
33	128	281	4:41	2	1.007	A BB	107416.	50.000 UG/L	1.24
34	127	302	5:02	2	1.082	A BB	44052.	50.000 UG/L	1.24
35	225	311	5:11	2	1.115	A BB	12971.	50.000 UG/L	1.24
36	107	388	6:28	2	1.391	A BB	29939.	50.000 UG/L	1.24
37	142	366	6:06	2	1.312	A BB	81108.	50.000 UG/L	1.24
38	237	399	6:39	3	0.801	A BB	14620.	50.000 UG/L	1.24
39	196	418	6:58	3	0.839	A BB	18502.	50.000 UG/L	1.24
40	196	430	7:10	3	0.863	A BB	22907.	50.000 UG/L	1.24
41	162	425	7:05	3	0.853	A BB	65013.	50.000 UG/L	1.24
42	65	456	7:36	3	0.916	A BB	26468.	50.000 UG/L	1.24
43	163	493	8:13	3	0.990	A BB	73027.	50.000 UG/L	1.24
44	152	476	7:56	3	0.956	A BB	90269.	50.000 UG/L	1.24
45	138	511	8:31	3	1.026	A BB	19881.	50.000 UG/L	1.24
46	153	502	8:22	3	1.008	A BB	55013.	50.000 UG/L	1.24
47	184	524	8:44	3	1.052	A BB	9245.	50.000 UG/L	1.24
48	109	575	9:35	3	1.155	A BV	6126.	50.000 UG/L	1.24
49	168	524	8:44	3	1.052	A BB	89143.	50.000 UG/L	1.24
50	165	544	9:04	3	1.092	A BB	19606.	50.000 UG/L	1.24

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No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	2:30	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	8:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	11:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	20:11	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:17	1.00	0.513	1.00	50.00	50.00	1.480	1.480	1.00
8	2:28	1.00	0.987	1.00	50.00	50.00	2.168	2.168	1.00
9	10:05	1.00	1.215	1.00	50.00	50.00	0.133	0.133	1.00
10	3:26	1.00	0.738	1.00	50.00	50.00	0.440	0.440	1.00
11	7:04	1.00	0.851	1.00	50.00	50.00	1.191	1.191	1.00
12	15:16	1.00	0.883	1.00	50.00	50.00	1.267	1.267	1.00
13	2:29	1.00	0.993	1.00	50.00	50.00	1.902	1.902	1.00
14	2:19	1.00	0.927	1.00	50.00	50.00	1.508	1.508	1.00
15	2:21	1.00	0.940	1.00	50.00	50.00	1.446	1.446	1.00
16	2:26	1.00	0.973	1.00	50.00	50.00	1.550	1.550	1.00
17	2:31	1.00	1.007	1.00	50.00	50.00	1.585	1.585	1.00
18	2:55	1.00	1.167	1.00	50.00	50.00	0.880	0.880	1.00
19	2:47	1.00	1.113	1.00	50.00	50.00	1.413	1.413	1.00
20	3:22	1.00	1.347	1.00	50.00	50.00	1.648	1.648	1.00
21	3:09	1.00	1.260	1.00	50.00	50.00	2.682	2.682	1.00
22	3:39	1.00	1.460	1.00	50.00	50.00	1.643	1.643	1.00
23	3:25	1.00	1.367	1.00	50.00	50.00	1.489	1.489	1.00
24	3:14	1.00	1.293	1.00	50.00	50.00	0.616	0.616	1.00
25	3:28	1.00	0.746	1.00	50.00	50.00	0.430	0.430	1.00
26	3:57	1.00	0.849	1.00	50.00	50.00	0.833	0.833	1.00
27	4:03	1.00	0.871	1.00	50.00	50.00	0.212	0.212	1.00
28	4:32	1.00	0.975	1.00	50.00	50.00	0.331	0.331	1.00
29	5:11	1.00	1.115	1.00	50.00	50.00	0.261	0.261	1.00
30	4:34	1.00	0.982	1.00	50.00	50.00	0.491	0.491	1.00
31	4:41	1.00	1.007	1.00	50.00	50.00	0.313	0.313	1.00
32	4:37	1.00	0.993	1.00	50.00	50.00	0.314	0.314	1.00
33	4:41	1.00	1.007	1.00	50.00	50.00	1.101	1.101	1.00
34	5:02	1.00	1.082	1.00	50.00	50.00	0.452	0.452	1.00
35	5:11	1.00	1.115	1.00	50.00	50.00	0.133	0.133	1.00
36	6:28	1.00	1.391	1.00	50.00	50.00	0.307	0.307	1.00
37	6:06	1.00	1.312	1.00	50.00	50.00	0.831	0.831	1.00
38	6:39	1.00	0.801	1.00	50.00	50.00	0.247	0.247	1.00
39	6:58	1.00	0.839	1.00	50.00	50.00	0.313	0.313	1.00
40	7:10	1.00	0.863	1.00	50.00	50.00	0.388	0.388	1.00
41	7:05	1.00	0.853	1.00	50.00	50.00	1.100	1.100	1.00
42	7:36	1.00	0.916	1.00	50.00	50.00	0.448	0.448	1.00
43	8:13	1.00	0.990	1.00	50.00	50.00	1.236	1.236	1.00
44	7:56	1.00	0.956	1.00	50.00	50.00	1.528	1.528	1.00
45	8:31	1.00	1.026	1.00	50.00	50.00	0.337	0.337	1.00
46	8:22	1.00	1.008	1.00	50.00	50.00	0.931	0.931	1.00
47	8:44	1.00	1.052	1.00	50.00	50.00	0.156	0.156	1.00
48	9:35	1.00	1.155	1.00	50.00	50.00	0.104	0.104	1.00
49	8:44	1.00	1.052	1.00	50.00	50.00	1.509	1.509	1.00
50	9:04	1.00	1.092	1.00	50.00	50.00	0.332	0.332	1.00

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Quantitation Report File: FS0412C02

Data: FS0412C02.TI
04/12/93 11:59:00
Sample: SSFD050
Conds.: ---
Formula: 04/08/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	C570	2-CHLOROPHENOL-D4 ** SU7 **	
81	C575	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	497	8:17	3	0.998	A BB	22376.	50.000 UG/L	1.24
52	149	591	9:51	3	1.187	A BB	62001.	50.000 UG/L	1.24
53	204	581	9:41	3	1.167	A BB	33669.	50.000 UG/L	1.24
54	166	568	9:28	3	1.141	A BB	66572.	50.000 UG/L	1.24
55	138	593	9:53	3	1.191	A BB	17697.	50.000 UG/L	1.24
56	198	596	9:56	4	0.869	A BB	12532.	50.000 UG/L	1.24
57	169	602	10:02	4	0.878	A BB	54928.	50.000 UG/L	1.24
58	248	642	10:42	4	0.936	A BB	16397.	50.000 UG/L	1.24
59	284	649	10:49	4	0.946	A BB	16522.	50.000 UG/L	1.24
60	266	684	11:24	4	0.997	A BB	10923.	50.000 UG/L	1.24
61	178	689	11:29	4	1.004	A BV	99622.	50.000 UG/L	1.24

000062

011742

011743

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
62	178	694	11:34	4	1.012	A VB	107246.	50.000 UG/L	1.24
63	149	810	13:30	4	1.181	A BB	145116.	50.000 UG/L	1.24
64	202	845	14:05	4	1.232	A BB	121322.	50.000 UG/L	1.24
65	202	870	14:30	5	0.839	A BB	124440.	50.000 UG/L	1.24
66	149	1004	16:44	5	0.968	A BB	64217.	50.000 UG/L	1.24
67	252	1051	17:31	5	1.013	A BB	30376.	50.000 UG/L	1.24
68	228	1035	17:15	5	0.998	A BV	103000.	50.000 UG/L	1.24
69	149	1099	18:19	5	1.060	A BB	97761.	50.000 UG/L	1.24
70	228	1040	17:20	5	1.003	A VB	84804.	50.000 UG/L	1.24
71	149	1178	19:38	6	0.973	A BB	184343.	50.000 UG/L	1.24
72	252	1171	19:31	6	0.967	M XX	110358.	50.000 UG/L	1.24
73	252	1173	19:33	6	0.969	M XX	78528.	50.000 UG/L	1.24
74	252	1204	20:04	6	0.994	A BB	84600.	50.000 UG/L	1.24
75	276	1324	22:04	6	1.093	A BV	58616.	50.000 UG/L	1.24
76	278	1331	22:11	6	1.099	A BV	57317.	50.000 UG/L	1.24
77	276	1346	22:26	6	1.111	A BB	68498.	50.000 UG/L	1.24
78	74	29	0:29	1	0.193	A BB	25809.	50.000 UG/L	1.24
79	184	884	14:44	5	0.852	A BB	35364.	50.000 UG/L	1.24
80	182	140	2:20	1	0.933	A BB	50017.	50.000 UG/L	1.24
81	182	165	2:45	1	1.100	M XX	22581.	50.000 UG/L	1.24
82	167	730	12:10	4	1.064	A BB	106416.	50.000 UG/L	1.24

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	8:17	1.00	0.998	1.00	50.00	50.00	0.379	0.379	1.00
52	9:51	1.00	1.187	1.00	50.00	50.00	1.050	1.050	1.00
53	9:41	1.00	1.167	1.00	50.00	50.00	0.570	0.570	1.00
54	9:28	1.00	1.141	1.00	50.00	50.00	1.127	1.127	1.00
55	9:53	1.00	1.191	1.00	50.00	50.00	0.300	0.300	1.00
56	9:56	1.00	0.869	1.00	50.00	50.00	0.146	0.146	1.00
57	10:02	1.00	0.878	1.00	50.00	50.00	0.640	0.640	1.00
58	10:42	1.00	0.936	1.00	50.00	50.00	0.191	0.191	1.00
59	10:49	1.00	0.946	1.00	50.00	50.00	0.193	0.193	1.00
60	11:24	1.00	0.997	1.00	50.00	50.00	0.127	0.127	1.00
61	11:29	1.00	1.004	1.00	50.00	50.00	1.162	1.162	1.00
62	11:34	1.00	1.012	1.00	50.00	50.00	1.250	1.250	1.00
63	13:30	1.00	1.181	1.00	50.00	50.00	1.692	1.692	1.00
64	14:05	1.00	1.232	1.00	50.00	50.00	1.415	1.415	1.00
65	14:30	1.00	0.839	1.00	50.00	50.00	1.596	1.596	1.00
66	16:44	1.00	0.968	1.00	50.00	50.00	0.824	0.824	1.00
67	17:31	1.00	1.013	1.00	50.00	50.00	0.390	0.390	1.00
68	17:15	1.00	0.998	1.00	50.00	50.00	1.321	1.321	1.00
69	18:19	1.00	1.060	1.00	50.00	50.00	1.254	1.254	1.00
70	17:20	1.00	1.003	1.00	50.00	50.00	1.088	1.088	1.00
71	19:38	1.00	0.973	1.00	50.00	50.00	2.471	2.471	1.00
72	19:31	1.00	0.967	1.00	50.00	50.00	1.479	1.479	1.00
73	19:33	1.00	0.969	1.00	50.00	50.00	1.053	1.053	1.00
74	20:04	1.00	0.994	1.00	50.00	50.00	1.134	1.134	1.00
75	22:04	1.00	1.093	1.00	50.00	50.00	0.786	0.786	1.00
76	22:11	1.00	1.099	1.00	50.00	50.00	0.768	0.768	1.00
77	22:26	1.00	1.111	1.00	50.00	50.00	0.918	0.918	1.00
78	0:29	1.00	0.193	1.00	50.00	50.00	0.994	0.994	1.00
79	14:44	1.00	0.852	1.00	50.00	50.00	0.454	0.454	1.00
80	2:20	1.00	0.933	1.00	50.00	50.00	1.927	1.927	1.00
81	2:45	1.00	1.100	1.00	50.00	50.00	0.870	0.870	1.00
82	12:10	1.00	1.064	1.00	50.00	50.00	1.241	1.241	1.00

011744

THE FOLLOWING DATA IS

FOR QA/QC

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	04/07/93	Sens Time:	9:52:00
Lab ID:	FS0407C01	Cali Date:	03/30/93	Analyst:	JDD

Data release authorized by: Juanita D. Drummond

M/E	Ion Abundance Criteria	Spec # 218	
51	30 to 60% of mass 198	39.25	
68	less than 2% of mass 69	0.18	(0.49) 1
69	mass 69 relative abundance	37.34	
70	less than 2% of mass 69	0.29	(0.79) 1
127	40 TO 60% of mass 198	49.60	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.04	
275	10 TO 30% of mass 198	21.14	
365	greater than 1% of mass 198	1.19	
441	less than mass 443	4.32	
442	greater than 40% of mass 198	45.18	
443	17 TO 23% of mass 442	7.97	(17.63) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

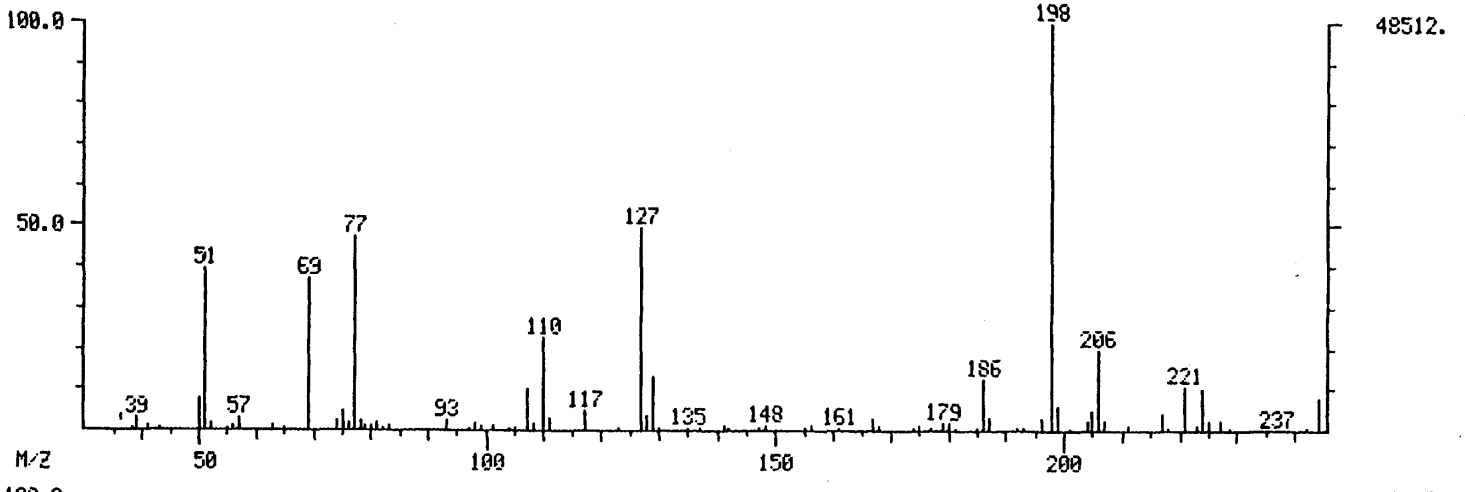
-15

CHESTER DC # ---

MASS SPECTRUM
04/07/93 9:52:00 + 3:39
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:#158 DEG. C
#218 TO #220 SUMMED - #190

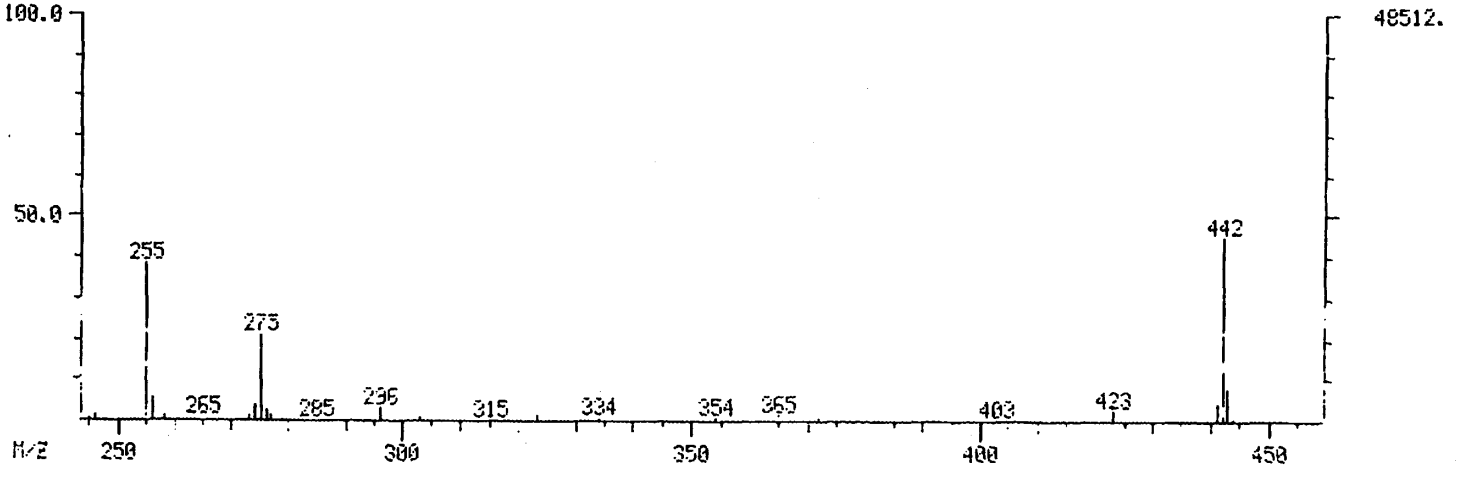
DATA: FS0407C01 #219
CALI: FS0407C01 #3

BASE M/Z: 198
RIC: 311296.



DFTPP SPECTRA

INST ID: 4510



000067

011746

011746

INST ID: 4510 CHESTER DC # --- -15

DFTPP MASS LISTING

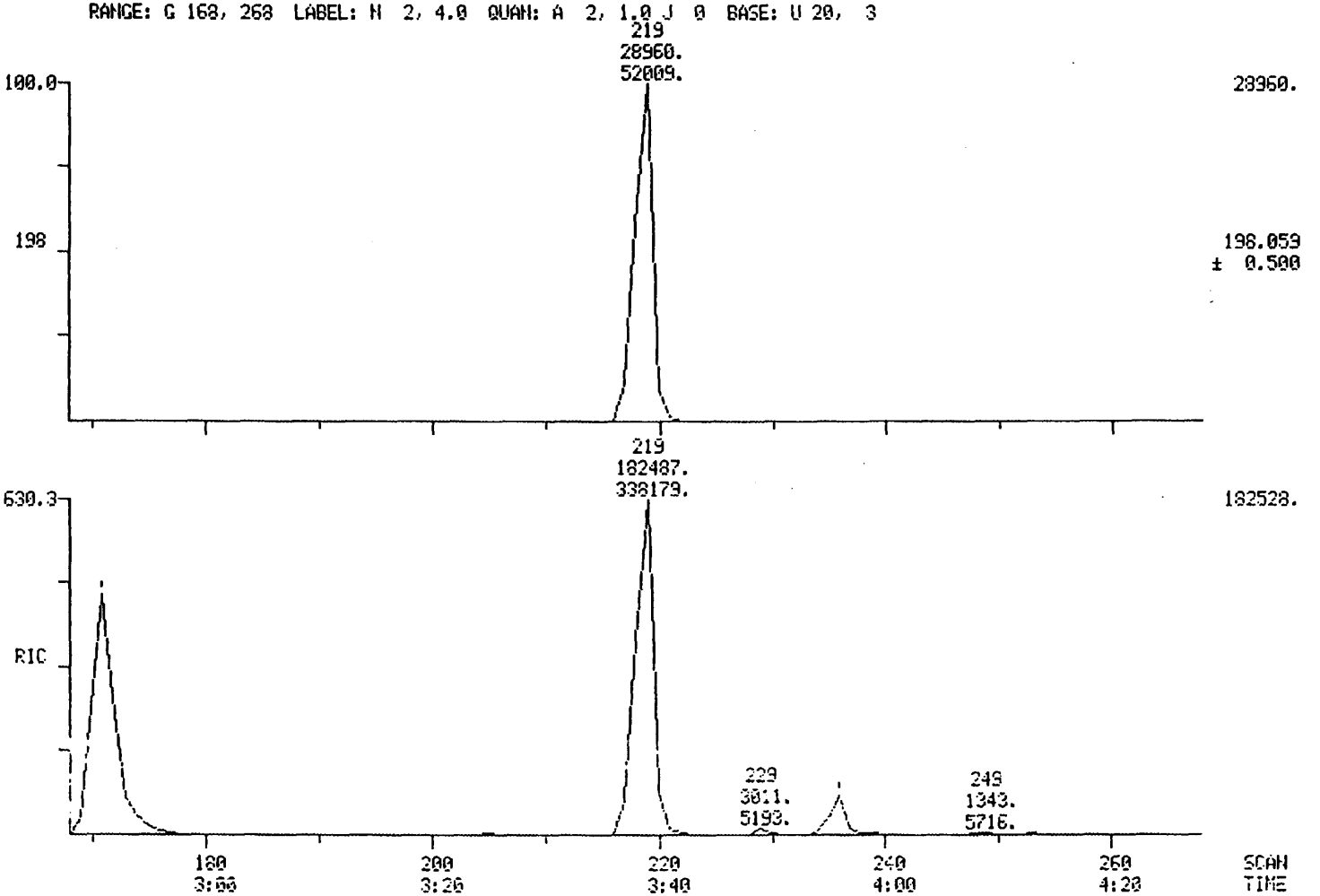
Mass List Data: FS0407C01 # 219 Base m/z: 198
04/07/93 7:52:00 + 3:39 Cali: FS0407C01 # 3 RIC: 311296.
Sample: DFTPP
Conds.: ---
#218 to #220 summed - #190

011747

36		0.00	0.	Minima	Min Inten:	164.
444				Maxima	# 0	
Mass		% RA	Inten.	Mass	% RA	Inten.
39?		3.11	1508.	177	0.36	174.
41		0.90	437.	179	1.97	954.
43		0.78	376.	180	1.64	795.
50		8.03	3896.	181	0.71	343.
51	S	39.25	19040.	185	0.89	434.
52		1.64	796.	186	12.70	6160.
55		0.78	378.	187	3.24	1572.
56		1.01	491.	192	0.47	229.
57		2.87	1392.	193	0.66	322.
63		0.99	478.	196	2.77	1342.
65		0.66	319.	198	100.00	48512.
69		37.34	18112.	199	6.04	2932.
74		2.30	1116.	201	0.36	176.
75		4.58	2224.	204	2.17	1054.
76		1.89	915.	205	4.55	2208.
77		47.36	22976.	206	19.92	9664.
78		2.68	1300.	207	2.22	1078.
79		1.42	690.	211	0.92	447.
80		1.04	506.	217	4.05	1964.
81		2.09	1016.	218	0.43	209.
82		0.55	268.	221	11.07	5368.
83		1.33	645.	223	0.90	437.
93		2.19	1064.	224	10.14	4920.
98		1.66	804.	225	2.35	1140.
99		1.24	602.	227	2.65	1286.
101		0.99	482.	229	0.63	304.
104		0.43	207.	242	0.34	164.
105		0.36	175.	244	7.51	3644.
107		10.26	4976.	245	0.72	348.
108		1.53	740.	246	0.92	444.
110		22.76	11040.	255	38.39	18624.
111		3.03	1470.	256	5.47	2652.
117		4.57	2216.	258	1.28	621.
123		0.52	251.	265	0.40	192.
127		49.60	24064.	273	0.93	453.
128		3.41	1654.	274	3.44	1668.
129		13.46	6528.	275	21.14	10256.
130		0.78	378.	276	2.47	1196.
135		0.74	360.	277	1.07	518.
141		1.00	484.	296	3.04	1476.
142		0.38	182.	323	1.13	550.
147		0.51	248.	334	0.66	319.
148		1.07	517.	354	0.37	178.
155		0.55	265.	365	1.19	576.
156		1.47	714.	372	0.47	226.
161		0.68	330.	423	2.16	1048.
167		3.24	1572.	441	4.32	2096.
168		0.92	445.	442	45.18	21920.
174		0.40	195.	443	7.97	3864.
175		1.24	603.	444	0.54	261.

RIC+MASS CHROMATOGRAM
04/07/93 9:52:00
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 168, 268 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3

DATA: FS0407C01 #218 SCANS 168 TO 268
CALI: FS0407C01 #3



000069

011748

011748

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	04/08/93	Sens Time:	11:35:00
Lab ID:	FS0408C01D	Cali Date:	04/08/93	Analyst:	JDD

Data release authorized by: Juanita D Drummond

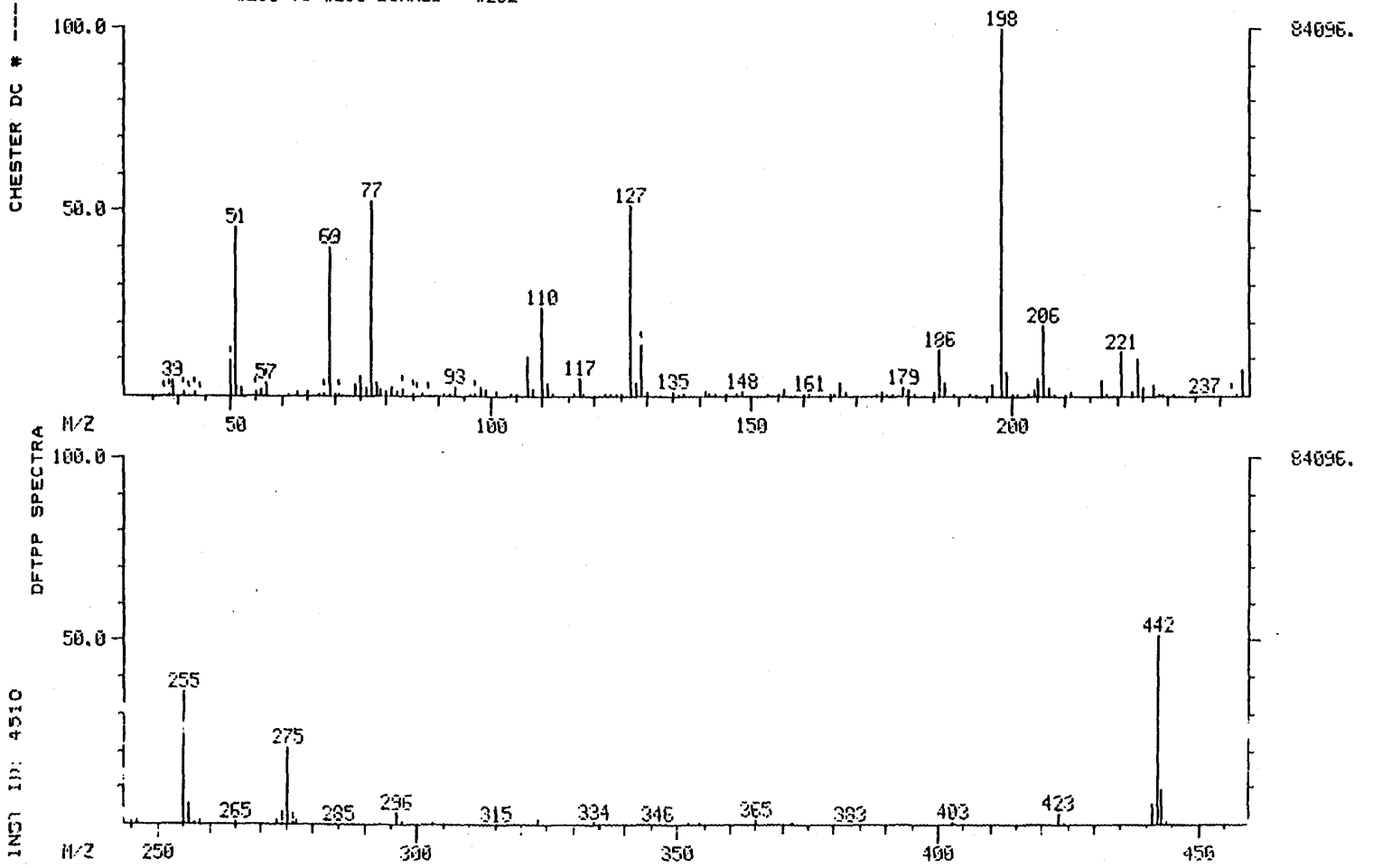
M/E	Ion Abundance Criteria	Spec # 216	
51	30 to 60% of mass 198	45.36	
68	less than 2% of mass 69	0.77	(1.91) 1
69	mass 69 relative abundance	40.18	
70	less than 2% of mass 69	0.75	(1.88) 1
127	40 TO 60% of mass 198	51.45	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.37	
275	10 TO 30% of mass 198	20.97	
365	greater than 1% of mass 198	1.48	
441	less than mass 443	5.55	
442	greater than 40% of mass 198	51.60	
443	17 TO 23% of mass 442	9.62	(18.64) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

MASS SPECTRUM
04/08/93 11:35:00 + 3:37
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:*158 DEG. C
#216 TO #218 SUMMED - #202

DATA: FS0408C01D #217
CALI: FS0408C01D #3

BASE M/Z: 198
RIC: 588800.



011750

011750

INST ID: 4510 CHESTER DC # --- -15

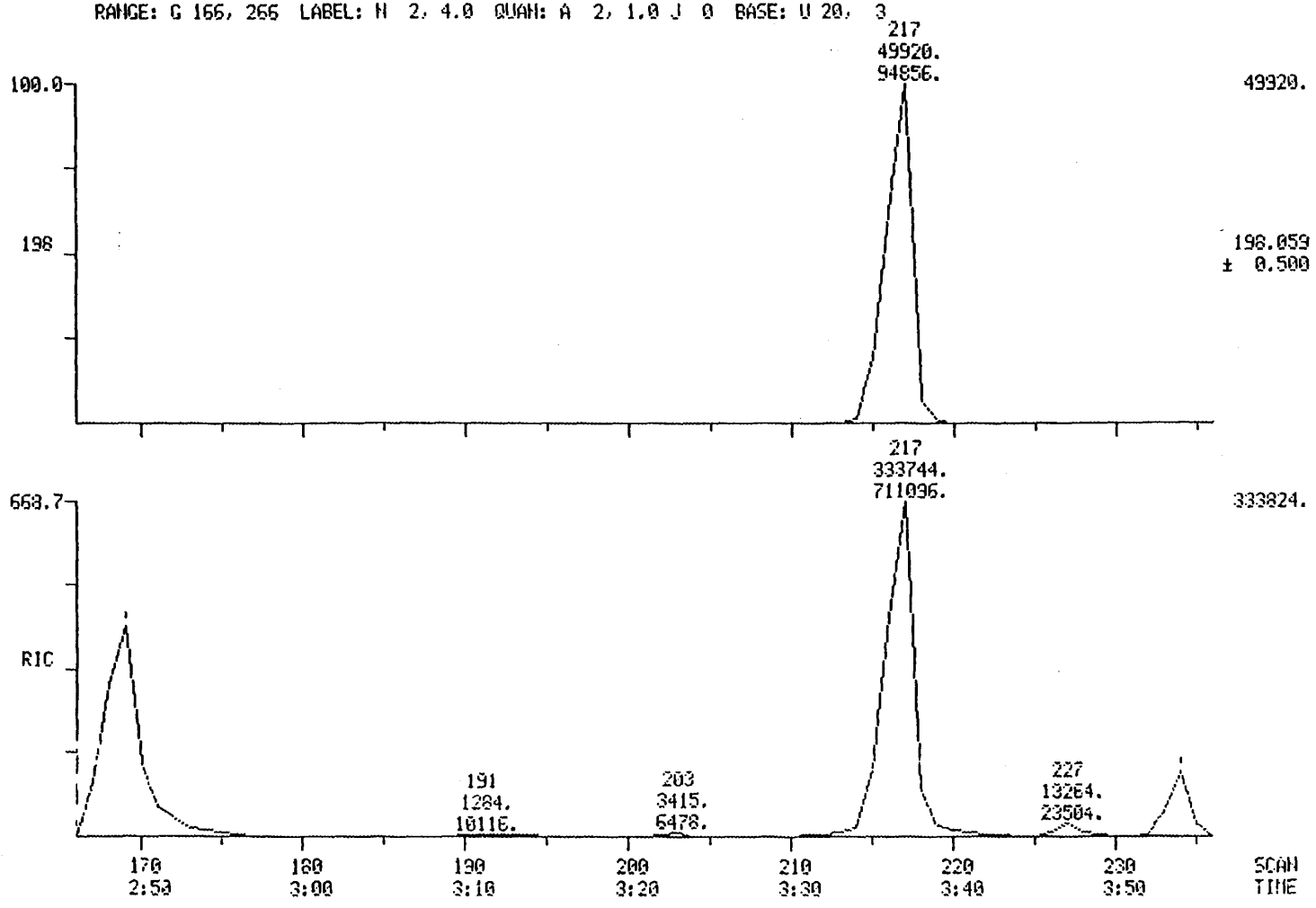
DFTPP MASS LISTING

Mass List Data: FS0408C01D # 217 Base m/z: 198
04/08/93 11:35:00 + 3:37 Cali: FS0408C01D # 3 RIC: 588800.
Sample: DFTPP
Conds.: ---
#216 to #218 summed - #202

37		0.00	0.	Minima	Min	Inten:	430.
444				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
38?	S	0.54	456.	167		3.39	2852.
39?		4.18	3516.	168		1.36	1144.
41	S	1.20	1009.	174		0.55	459.
43	S	1.45	1220.	175		1.32	1110.
50	S	9.47	7968.	179		2.31	1940.
51	S	45.36	38144.	180		1.74	1466.
52		2.21	1860.	181		0.87	728.
55	S	1.29	1084.	185		1.08	909.
56		1.91	1608.	186		12.46	10480.
57	S	3.89	3268.	187		3.67	3088.
63		0.99	831.	192		0.63	530.
65		0.95	803.	193		0.73	614.
68	S	0.77	644.	196		3.23	2716.
69	S	40.18	33792.	198		100.00	84096.
70		0.75	634.	199		6.37	5360.
74		2.89	2428.	201		0.51	431.
75		5.14	4320.	204		2.03	1706.
76		2.29	1922.	205		4.61	3876.
77		52.51	44160.	206		19.14	16096.
78		3.35	2816.	207		2.40	2018.
79		1.66	1398.	211		1.11	933.
80		1.44	1212.	217		4.06	3416.
81		2.47	2076.	221		11.85	9968.
82		1.05	885.	223		0.94	791.
83	S	1.91	1610.	224		9.91	8336.
93		2.47	2080.	225		2.38	2004.
97	S	0.69	581.	227		2.74	2304.
98		2.24	1886.	229		0.75	630.
99		1.69	1422.	244		7.34	6176.
101		1.25	1048.	245		0.87	734.
105		0.62	525.	246		1.01	848.
107		10.64	8944.	255		36.19	30432.
108		1.68	1412.	256		5.24	4408.
110		23.86	20064.	258		1.38	1162.
111		3.60	3024.	265		0.53	446.
117		4.68	3936.	273		1.07	897.
123		0.63	529.	274		3.34	2808.
125		0.63	529.	275		20.97	17632.
127		51.45	43264.	276		2.71	2276.
128		3.78	3180.	277		1.23	1034.
129	S	13.64	11472.	296		3.27	2748.
130		0.96	811.	323		1.24	1044.
135		0.96	806.	334		0.77	644.
141		1.29	1086.	365		1.48	1248.
145		0.68	572.	372		0.60	506.
147		0.72	606.	423		2.79	2344.
148		1.35	1134.	441		5.55	4664.
155		0.67	566.	442		51.60	43392.
156		1.71	1436.	443		9.62	8088.
161		0.87	732.	444		0.80	675.

011751

RIC+MASS CHROMATOGRAM DATA: FS0408C01D #216 SCANS 166 TO 236
04/08/93 11:35:00 CALI: FS0408C01D #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 166, 266 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



000072

011752

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	04/12/93	Sens Time:	10:57:00
Lab ID:	FS0412C01	Cali Date:	04/08/93	Analyst:	JDD

Data release authorized by: Juanita D. Drummond

M/E	Ion Abundance Criteria	Spec # 210	
51	30 to 60% of mass 198	50.12	
68	less than 2% of mass 69	0.81	(1.96) 1
69	mass 69 relative abundance	41.53	
70	less than 2% of mass 69	0.23	(0.56) 1
127	40 TO 60% of mass 198	54.32	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.34	
275	10 TO 30% of mass 198	22.06	
365	greater than 1% of mass 198	1.48	
441	less than mass 443	5.39	
442	greater than 40% of mass 198	49.60	
443	17 TO 23% of mass 442	9.30	(18.76) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

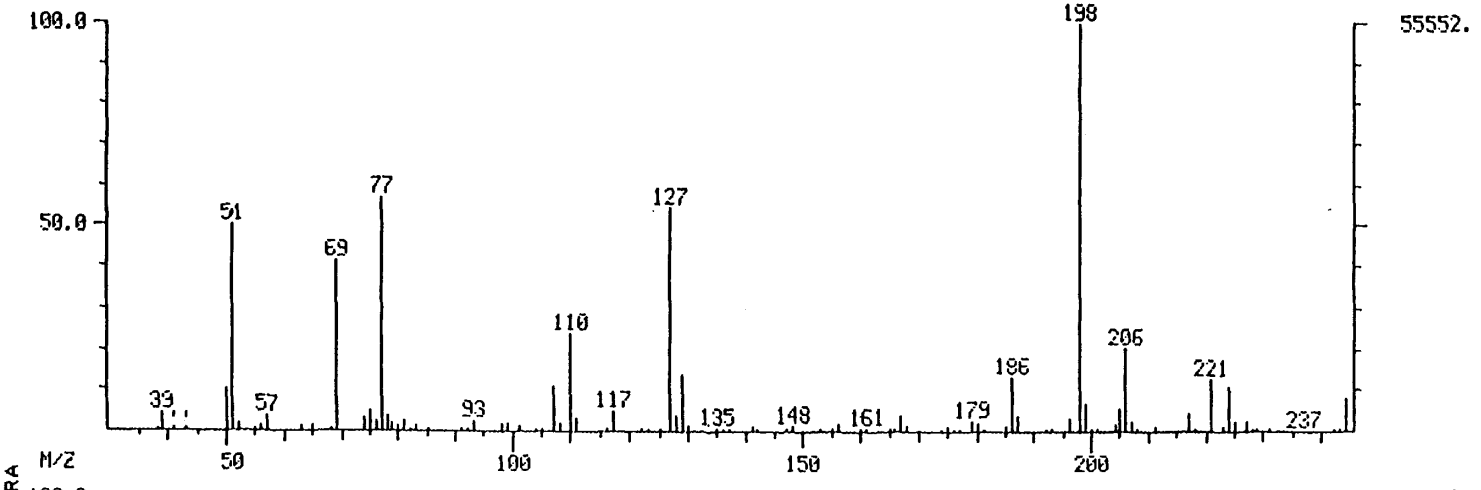
-15

MASS SPECTRUM
04/12/93 10:57:00 + 3:31
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:#158 DEG. C
#210 TO #212 SUMMED - #180

DATA: FS0412C01 #211
CALI: FS0412C01 #3

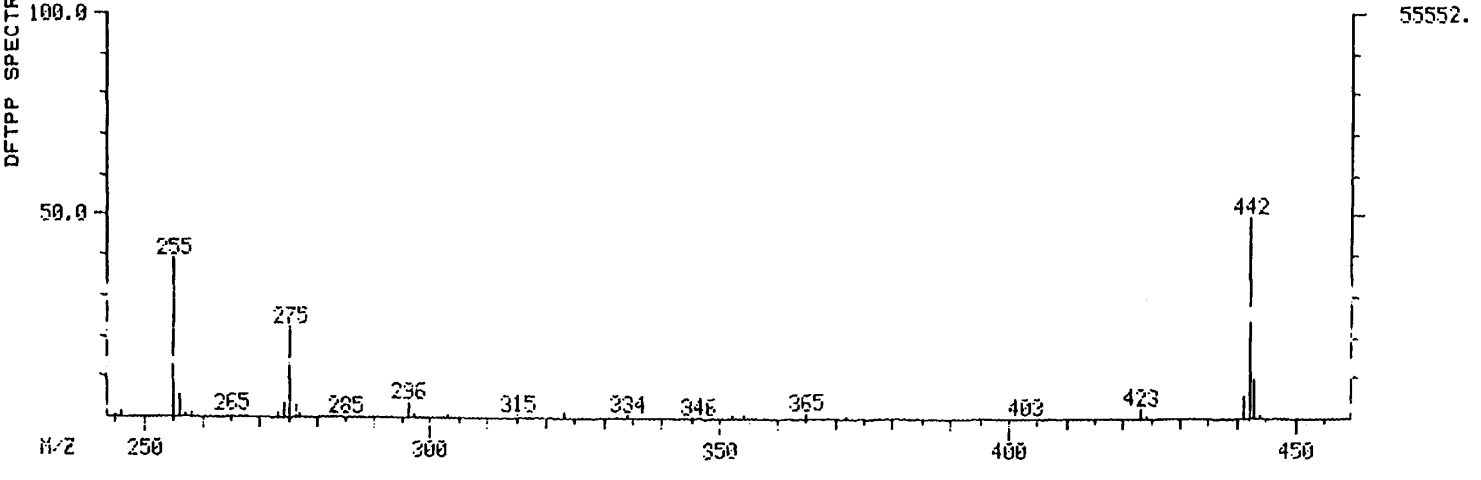
BASE M/Z: 198
RIC: 397824.

CHESTER DC # ---



DFTPP SPECTRA

INST ID: 4510



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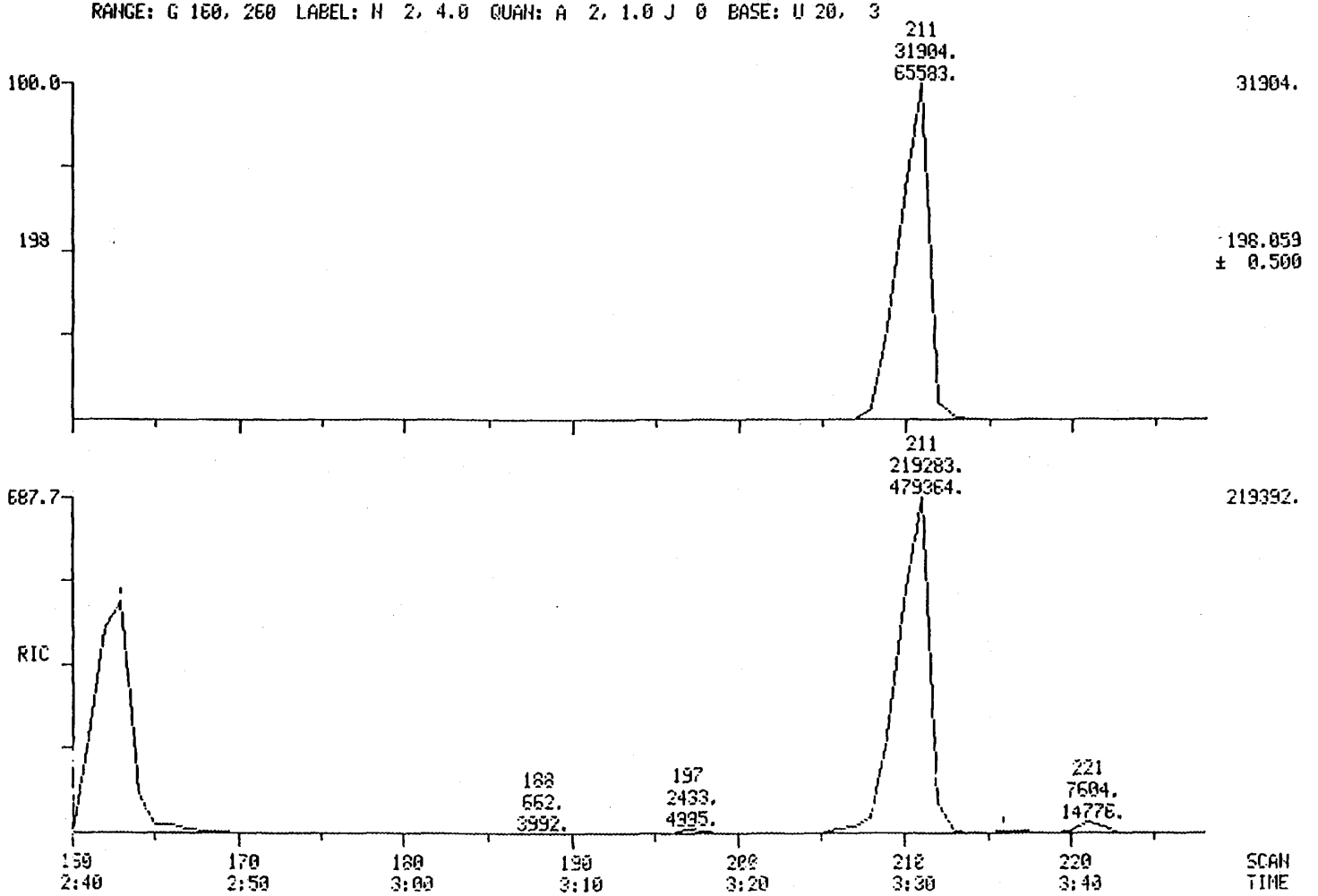
INST ID: 4510 CHESTER DC # --- -15

DFTPP MASS LISTING

Mass List Data: FS0412C01 # 211 Base m/z: 198
04/12/93 10:57:00 + 3:31 Cali: FS0412C01 # 3 RIC: 397824.
Sample: DFTPP
Conds.: ---
#210 to #212 summed - #180

37		0.00	0.	Minima	Min Inten:	249.
444				Maxima	# 0	
Mass		% RA	Inten.	Mass	% RA	Inten.
38?		0.66	369.	175	1.45	808.
39?		4.42	2456.	177	0.48	266.
41	S	0.51	281.	179	2.13	1182.
50		9.99	5552.	180	1.79	992.
51	S	50.12	27840.	181	0.83	462.
52		2.10	1164.	185	0.94	524.
55		0.79	438.	186	13.31	7392.
56		1.23	682.	187	3.71	2060.
57		3.44	1910.	192	0.52	289.
63		1.22	679.	193	0.74	410.
65		0.93	518.	196	2.94	1632.
68		0.81	451.	198	100.00	55552.
69		41.53	23072.	199	6.34	3520.
74		2.71	1508.	204	2.06	1142.
75		5.03	2796.	205	5.12	2844.
76		2.15	1196.	206	20.59	11440.
77		56.74	31520.	207	2.38	1324.
78		3.43	1906.	211	1.02	569.
79		1.59	885.	217	4.29	2384.
80		1.41	782.	218	0.57	319.
81		2.37	1314.	221	12.67	7040.
82		0.59	329.	223	0.94	521.
83		1.15	639.	224	10.74	5968.
93		2.68	1488.	225	2.64	1466.
98		2.04	1136.	227	2.69	1494.
99		1.79	992.	229	0.80	444.
101		1.21	671.	244	7.56	4200.
104		0.53	297.	245	0.89	493.
105		0.52	288.	246	1.10	612.
107		11.02	6120.	255	38.65	21472.
108		1.82	1012.	256	5.50	3056.
110		24.22	13456.	258	1.43	794.
111		3.07	1704.	265	0.57	319.
117		5.08	2824.	273	1.06	588.
123		0.68	375.	274	3.59	1994.
127		54.32	30176.	275	22.06	12256.
128		3.86	2144.	276	2.79	1548.
129		13.95	7752.	277	1.25	694.
130		0.98	543.	296	3.31	1838.
135		0.84	466.	303	0.45	251.
137		0.45	250.	323	1.37	762.
141		1.28	711.	334	0.82	455.
147		0.60	336.	354	0.45	252.
148		1.20	668.	365	1.48	824.
155		0.65	360.	372	0.60	331.
156		1.84	1023.	423	2.47	1370.
161		0.86	475.	441	5.39	2996.
167		3.52	1956.	442	49.60	27552.
168		1.11	617.	443	9.30	5168.
174		0.53	296.	444	0.74	411.

RIC+MASS CHROMATOGRAM DATA: FS0412C01 #210 SCANS 160 TO 228
04/12/93 10:57:00 CALI: FS0412C01 #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 160, 260 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



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CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SBLK

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
CASE NO.: ---
LAB SAMPLE ID NO.: 93---
QC REPORT NO.: 03/30/93
SAMPLE MATRIX: SOIL
CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY:.....
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATAFILE: 9B04024C01A
DATE EXTRACTED: 4/3/93
DATE ANALYZED: 04/08/93

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

000078

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CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SBLK

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY:.....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

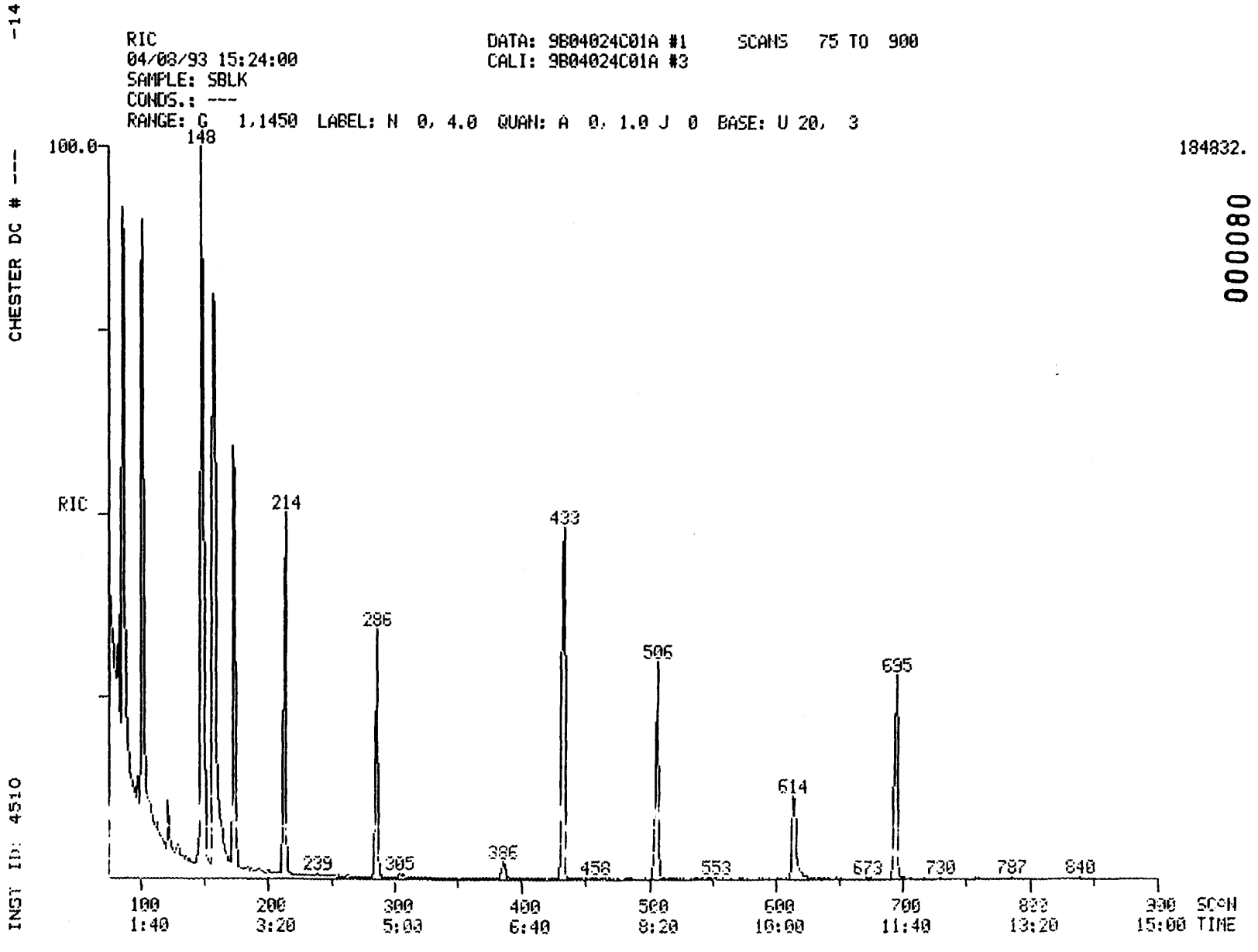
SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: ..4/3/93.....
DATE ANALYZED: 04/08/93

DATAFILE: 9B04024C01A

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	330 U	
C540	ACENAPHTHYLENE	330 U	
C550	ACENAPHTHENE	330 U	
C590	FLUORENE	330 U	
C640	PHENANTHRENE	330 U	
C645	ANTHRACENE	330 U	
C655	FLUORANTHENE	330 U	
C715	PYRENE	330 U	
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	
C790	BENZO(GHI)PERYLENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



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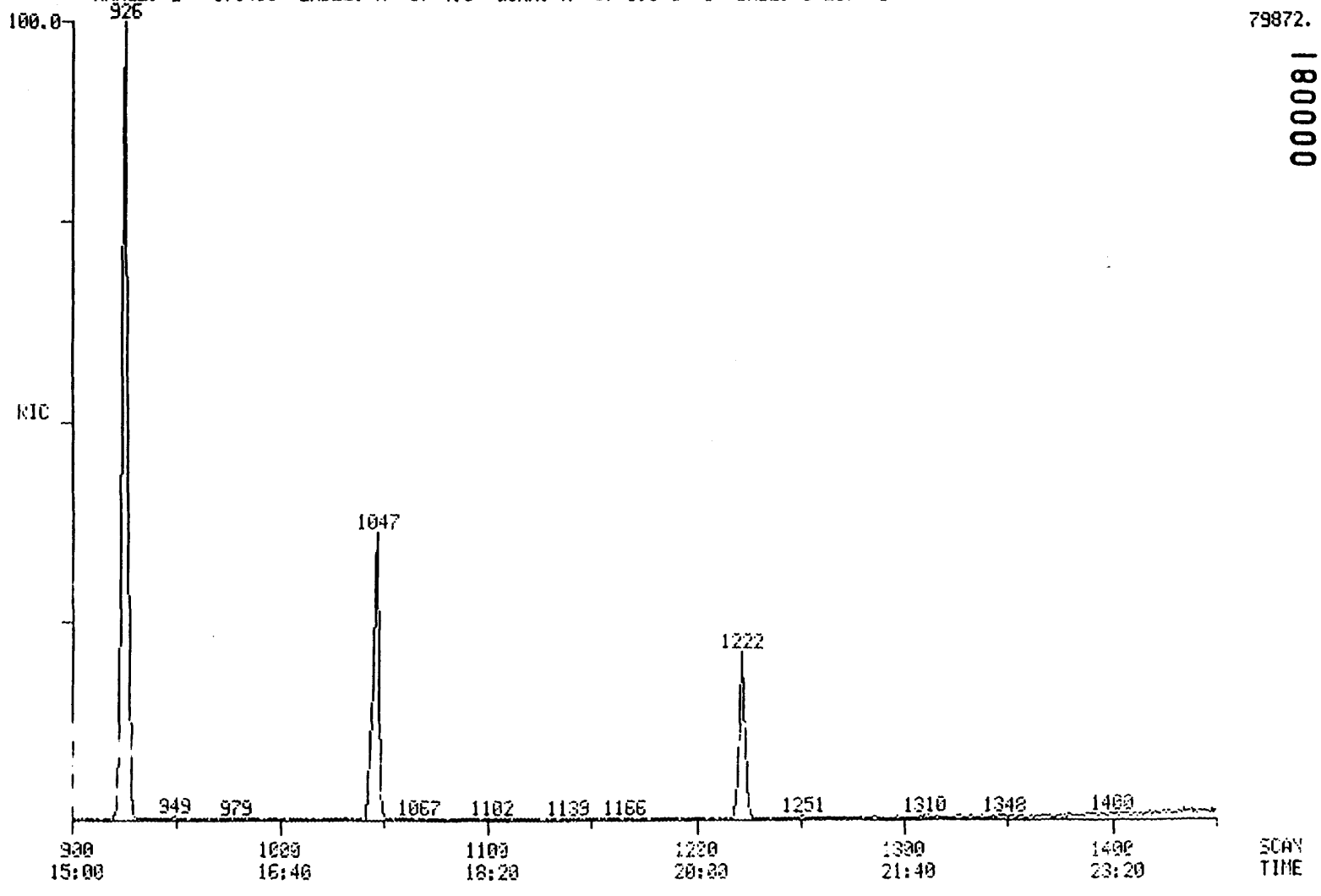
-14

RIC
04/08/93 15:24:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B04024C01A #1 SCANS 900 TO 1450
CALI: 9B04024C01A #3

CHESTER DC # ---

INST ID: 4510



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CHESTER DC # ----14

011761

SEMIVOLATILE SOIL REPORT

SAMPLE ID.	SBLK		
FILENAME	9B04024C01A	INST ID.	4510
CLIENT	CHESTER	ANALYST	JDD
DATE INJECTED	04/08/93 15:24:00	VERIFIED BY	JDD
CALIB STD DATE	04/08/93	CORR. FACTOR	33.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	ARE
158	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	152	660 UG/KG	1.000	187
286	CI40	NAPHTHALENE-D8 ** IS2 **	136	660 UG/KG	1.000	658
506	CI50	ACENAPHTHENE-D10 ** IS3 **	164	660 UG/KG	1.000	392
675	CI60	PHENANTHRENE-D10 ** IS4 **	188	660 UG/KG	1.000	621
1047	CI70	CHRYSENE-D12 ** IS5 **	240	660 UG/KG	1.000	389
1222	CI75	PERYLENE-D12 ** IS6 **	264	660 UG/KG	1.000	220
86	CS50	2-FLUOROPHENOL ** SU1 **	112	96 %	0.544	949
157	CS45	PHENOL-D5 ** SU2 **	99	83 %	0.994	1230
614	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	330	48 %	1.213	103
148	CS70	2-CHLOROPHENOL-D4 ** SU7 **	132	67 %	0.937	883
173	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	152	77 %	1.095	313
214	CS20	NITROBENZENE-D5 ** SU3 **	82	80 %	0.748	519
433	CS25	2-FLUOROBIPHENYL ** SU4 **	172	76 %	0.856	897
926	CS30	TERPHENYL-D14 ** SU6 **	244	85 %	0.884	1106

DRY WEIGHT TEST

KEYSTONE LAB-HOUSTON

CLIENT DAMES-MOOR

LAB NO. H93-04.24

ANALYST AY

DATE 4-3-93

DASH NO.	I.D. NO.	TARE WT. (a)	TARE (b) + WET SX.	TARE (c) + DRY SX.	DIFF. IN WT. OF H_2O LOST(d)	CORRECTION FACTOR (e)	WT. OF SX. USED FOR EXTR. (f)	DRY WT. (g)	DRY WT. FACTOR (h)
002	SC-W7(SD)D	1.50	6.17	5.20	0.97	0.792			1.26
003	SC-W7(SSD)D	1.49	6.40	5.78	0.62	0.873			1.14
004	SC-W7(MCD)D	1.51	6.17	5.65	0.52	0.888			1.12
005	SC-W7(C1/C2)D	1.51	6.07	4.28	1.79	0.607			1.65
006	SC-W4(DWC)C	1.50	5.25	2.38	2.87	0.235			4.25
	MISSTAGGED								
	SHOULD BE W-9 DWC								

d = (b-a) - (c-a) g = f (c-a)/(b-a) h = f/g = 1/e e = (c-a)/(b-a)

Date Submitted: 4/5/93

Submitted By

Dry Wt. Est. (Rev. 1/93)

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011762

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number 18804

Project Location South Cavalcade

Laboratory Chester

Sampler(s) Wes Frandt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	PSA CPAH	PH (150.1)	TOC (415.1)	COD (410.1)	TSS (160.2)	TDS (160.1)	CPAH (8270)	BTEX (8020)	As (7060)	Cr	TOTAL
SC-W7(SD) D	4/1/93	X										
SC-W7(SSD) D		X										
SC-W7(MCD) D		X										
SC-W7(C1/C2) D		X										
~~SC-[illegible]~~	~~4/1/93~~											
SC-WA(Dwc) C	4/1/93	X										
SC-RW-D	4/1/93		X	X	X	X	X	X	X	X	X	

000084

Relinquished by: W. [illegible]	Organization: Dames & Moore	Date: 4/2/93	Time 2:45	Seal Intact?
Received by: Heather Jwanowski	Organization: CHESTER ENVIRONMENTAL	Date: 4/2/93	Time 2:45	Yes No N/A
Relinquished by:	Organization:	Date: / /	Time	Seal Intact?
Received by:	Organization:	Date: / /	Time	Yes No N/A

Special Instructions / Remarks:

Delivery Method: ☒ In Person ☐ Common Carrier _____ specify ☐ Lab Courier ☐ Other _____ spec

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2-APR-1993

PRIORITY

Page

KEYSTONE LAB - HOUSTON
Job Summary Sheet

Produced on 2-APR-1993

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-04.24
Due Date : 7-APR-1993
Date Rec'd : 2-APR-1993
Project ID :
P.O. Number: 18804

Attention:

Contact: BRUCE HIKMAN

Job Description: DAMES & MOORE (RCRA)
Number of samples: 6 Sampled by: CLIENT

Job Comments:
72 HOUR T/A. Fax Data
SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Pnt.	Sample Matrix	Date Sampled
24-001	LAB BLANK	QA_QC	SOIL	1-APR-93
4-002	SC-W7 (SD) D	X	SOIL	1-APR-93
24-003	SC-W7 (SSD) D	X	SOIL	1-APR-93
24-004	SC-W7 (MSD) D	X	SOIL	1-APR-93
24-005	SC-W7 (C1/C2) D	X	SOIL	1-APR-93
24-006	SC-W4 (DWC) C	X	SOIL	1-APR-93

Analysis ID	Parameter Description	Number of Analyses
DRY_WT	Dry Weight Factor	6
EXT_8270SX	(Soil) Extraction by EPA 8270	6
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil	6

000085

AT ✓
CC ✓
BLC ✓
P&A ?
S ✓

011765

Report
Prepared
for

Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Attention : Bruce Hickman

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID :
P.O. NUMBER : 18804

WORK ORDER : H93-04.3
DATE RECEIVED : 31-MAR-1993

SAMPLE & ANALYSIS SUMMARY

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-04.3-001	LAB BLANK	31-MAR-1993	SOIL
H93-04.3-002	SC-W5(DWC)B	31-MAR-1993	SOIL
H93-04.3-003	SC-W9(SD)C	31-MAR-1993	SOIL
H93-04.3-004	SC-W9(SSD)C	31-MAR-1993	SOIL
H93-04.3-005	SC-W9(MCD)C	31-MAR-1993	SOIL
H93-04.3-006	SC-W9(C1/C2)C	31-MAR-1993	SOIL

Analysis ID	Parameter Description
DRY_WT	Dry Weight Factor
EXT_8270SX	(Soil) Extraction by EPA 8270
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil

011767

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON

DOC. CONT NO:

PROJECT NO.: 18804

SITE: S. CAVALCADE

LAB NO.:H93-04.3

I. RECEIPT

A. DATE: MAR. 31, 1993

B. NO. OF SAMPLES: 5 SAMPLES.

C. CLIENT ID NUMBERS: SC-W5 (DWC)B
SC-W9 (SD)C
SC-W9 (SSD)C
SC-W9 (MCD)C
SC-W9 (C1/C2)C

D. SAMPLE TYPE: Soils

E. ANALYSIS REQUESTED: cPAH (8270)
Grain Size (D-422)

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: At the request of Dames & Moore (2) data sheets provided per sample in each Work Order. First Organics Analysis Data Sheet contains cPAH follow with Full PAH LISTING.
Quanitation Data sheet will give complete PAH amounts.

I. COMMENTS: The Report for Grain Size by ASTM (D-422) will follow under separate cover in order to expedite the PAH data.
Sample SC-RW-C (Recycled Wash Water) will be reported under Work Order # H93-04.1 with its individual parmeters of request according to SAP.
This particular sample has been listed with the above on the Chain-o-Custody.

According to Contract, all sample data Faxed (4/7/93) as a prelimiary to receival of Data Package.

Robert R. Barrientos

Robert R. Barrientos, Project Manager

April 08, 1993

Date

000001

011767

Keystone Lab - Houston
Soil Surrogate Recovery Summary
Keystone Work Order # H93-04.3

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK	87	83	82	72	91	69	70	86
SC-W5 (DWC) B	DL	DL	DL	DL	DL	DL	DL	DL
SC-W9 (SD) C	DL	DL	DL	DL	DL	DL	DL	DL
SC-W9 (SSD) C	DL	DL	DL	DL	DL	DL	DL	DL
SC-W9 (MCD) C	DL	DL	DL	DL	DL	DL	DL	DL
SC-W9 (C1/C2) C	DL	DL	DL	DL	DL	DL	DL	DL

Surrogate Name	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	22-120
S3 (TPH) = Terphenyl-d14	18-137
S5 (2FP) = 2-Fluorophenol	25-121
S7 (2CP) = 2-Chlorophenol-d4	20-130**

Surrogate Name	QC LIMITS
S2 (FBP) = 2-Fluorobiphenyl	30-115
S4 (PHL) = Phenol-d5	24-113
S6 (TBP) = 2,4,6-Tribromophenol	19-122
S8 (DCB) = 1,2-Dichlorobenzene-d4	20-130**

0 out of 8 : outside of QC limits.

* = Values are outside of QC limits ** = Advisory QC Limits NA = Not Applicable

000002

011769

CHESTER DC # --- - 8

INST ID: 4010

SAMPLE NUMBER: SC-W5 (DWC)B

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930400302
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: RLJ

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 3/31/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/05/93

DATAFILE: 9U04003C02

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	31000	61000
C740	CHRYSENE	31000	47000
C765	BENZO(B)FLUORANTHENE	31000	49000
C770	BENZO(K)FLUORANTHENE	31000 U	
C775	BENZO(A)PYRENE	31000	28000 J
C780	INDENO(1,2,3-CD)PYRENE	31000	16000 J
C785	DIBENZO(A,H)ANTHRACENE	31000	3900 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011770

INST ID: 4010

CHESTER DC # --- - 8

SAMPLE NUMBER: SC-W5 (DWC)B

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930400302
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 3/31/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/05/93

DATAFILE: 9U04003C02

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	31000	240000
C540	ACENAPHTHYLENE	31000	7500 J
C550	ACENAPHTHENE	31000	180000
C590	FLUORENE	31000	230000
C640	PHENANTHRENE	31000	500000
C645	ANTHRACENE	31000	130000
C655	FLUORANTHENE	31000	270000
C715	PYRENE	31000	220000
C730	BENZO(A)ANTHRACENE	31000	61000
C740	CHRYSENE	31000	47000
C765	BENZO(B)FLUORANTHENE	31000	49000
C770	BENZO(K)FLUORANTHENE	31000 U	
C775	BENZO(A)PYRENE	31000	28000 J
C780	INDENO(1,2,3-CD)PYRENE	31000	16000 J
C785	DIBENZO(A,H)ANTHRACENE	31000	3900 J
C790	BENZO(GHI)PERYLENE	31000	16000 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

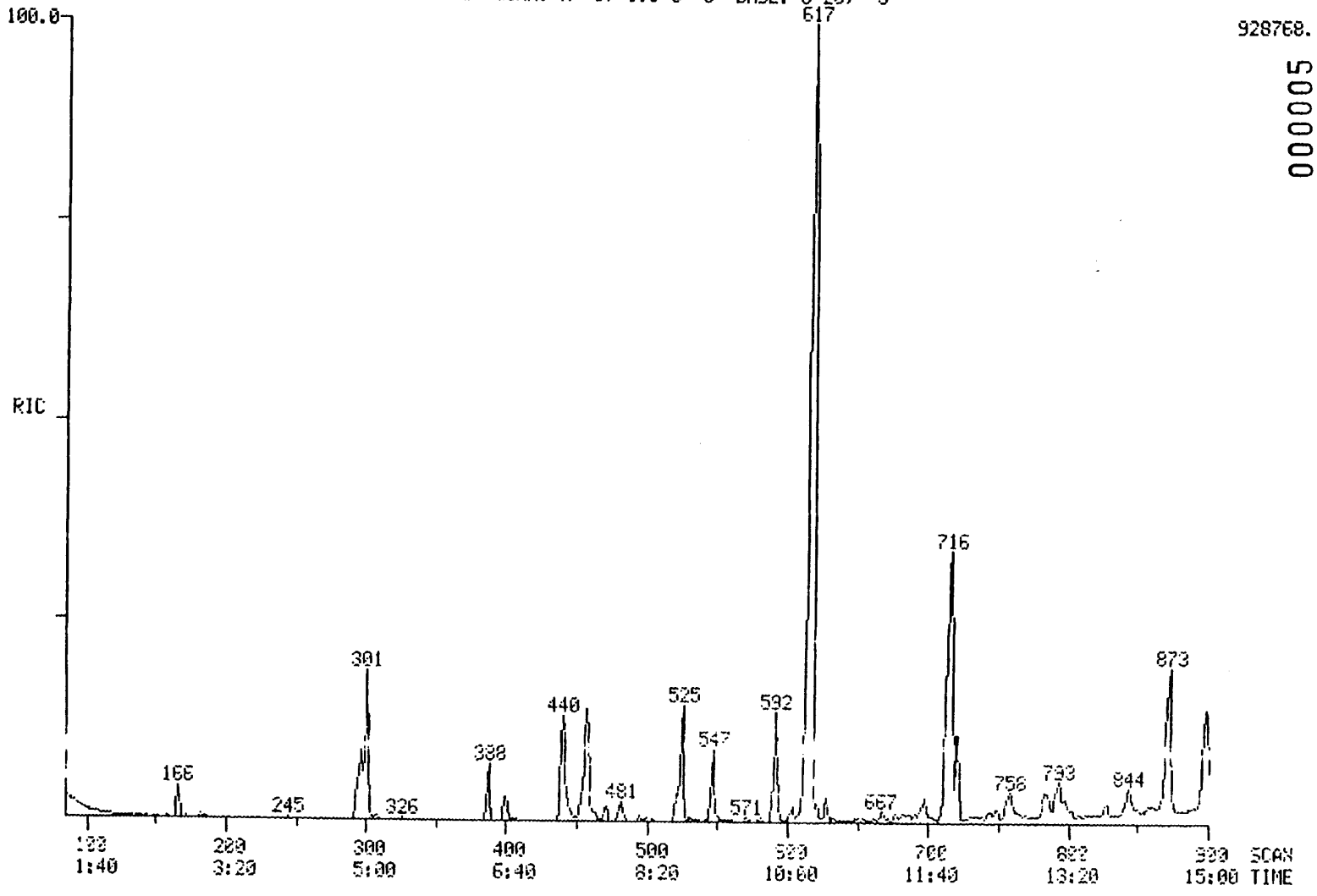
-14

RIC
04/05/93 21:19:00
SAMPLE: SC-W5 (DWC)B
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04003C02 #1 SCANS 85 TO 900
CALI: 9U04003C02 #3

CHESTER DC # ---

INST ID: 4510



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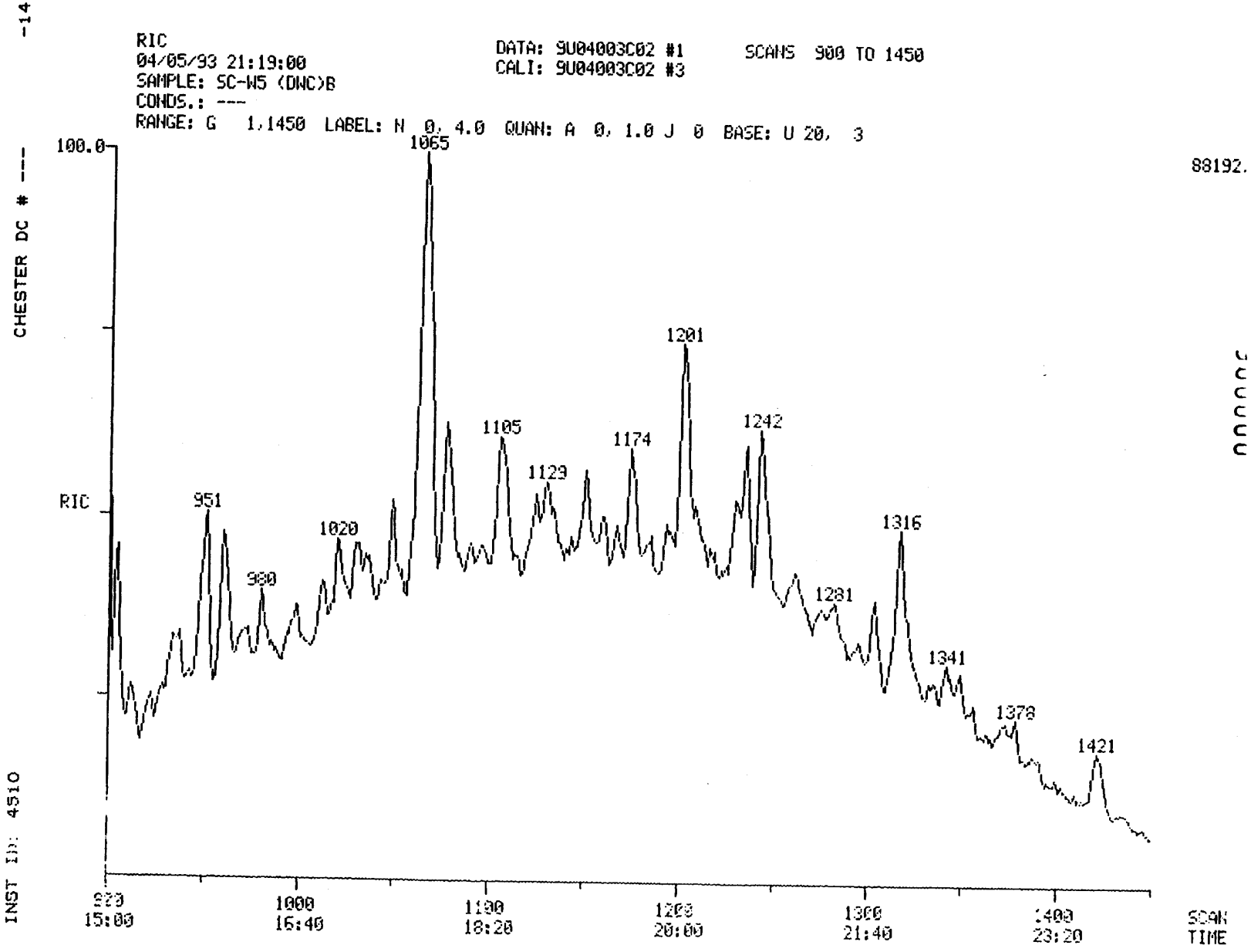

-14
CHESTER DC # ---
INST ID: 4510
RIC
04/05/93 21:19:00
SAMPLE: SC-W5 (DWC)B
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 9U04003C02 #1
CALI: 9U04003C02 #3
SCANS 900 TO 1450
100.0
RIC
88192.
1065
1201
1105
1242
1174
1129
951
1020
900
1316
1281
1341
1378
1421
900
15:00
1000
16:40
1100
18:20
1200
20:00
1300
21:40
1400
23:20
SCAN
TIME

011772

CHESTER DC # ----14

011773

SEMIVOLATILE SOIL REPORT

SAMPLE ID.	SC-W5 (DWC)B		
FILENAME	9U04003C02	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JDD
DATE INJECTED	04/05/93 21:19:00	VERIFIED BY	JDD
CALIB STD DATE	03/30/93	CORR. FACTOR	3100.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	ARE
166	0I30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	62000	UG/KG	1.000	100
299	0I40	NAPHTHALENE-D8 ** IS2 **		136	62000	UG/KG	1.000	406
521	0I50	ACENAPHTHENE-D10 ** IS3 **		164	62000	UG/KG	1.000	289
712	0I60	PHENANTHRENE-D10 ** IS4 **		188	62000	UG/KG	1.000	536
1065	0I70	CHRYSENE-D12 ** IS5 **		240	62000	UG/KG	1.000	328
1242	0I75	PERYLENE-D12 ** IS6 **		264	62000	UG/KG	1.000	229
301	0450	NAPHTHALENE	39B	128	236301	UG/KG	1.007	1709
499	0540	ACENAPHTHYLENE	2B	152	7517	UG/KG	0.958	59
525	0550	ACENAPHTHENE	1B	153	183765	UG/KG	1.008	821
572	0590	FLUORENE	32B	166	228482	UG/KG	1.136	1248
716	0640	PHENANTHRENE	44B	178	496551	UG/KG	1.006	5254
720	0645	ANTHRACENE	3B	178	126253	UG/KG	1.011	1414
873	0655	FLUORANTHENE	31B	202	270426	UG/KG	1.226	2845
878	0715	PYRENE	45B	202	218108	UG/KG	0.843	1955
1064	0730	BENZO(A)ANTHRACENE	5B	228	61191	UG/KG	0.999	427
1068	0740	CHRYSENE	18B	228	47250	UG/KG	1.003	282
1201	0765	BENZO(B)FLUORANTHENE	7B	252	48549	UG/KG	0.967	292
1235	0775	BENZO(A)PYRENE	6B	252	28401	UG/KG	0.994	120
1355	0780	INDENO(1,2,3-CD)PYRENE	37B	276	16393	UG/KG	1.091	48
1362	0785	DIBENZO(A,H)ANTHRACENE	19B	278	3898	UG/KG	1.097	11
1378	0790	BENZO(GHI)PERYLENE	8B	276	15640	UG/KG	1.109	48

*SURROGATES WERE DILUTED OUT

011774

INST ID: 4510 SAMPLE NUMBER: SC-W9(SD)C

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930400303 QC REPORT NO.: 03/30/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: Rec DATE SAMPLE RECEIVED: 3/31/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04003C03
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/05/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	240	330
C740	CHRYSENE	240	320
C765	BENZO(B)FLUORANTHENE	240	300
C770	BENZO(K)FLUORANTHENE	240 U	
C775	BENZO(A)PYRENE	240	190 J
C780	INDENO(1,2,3-CD)PYRENE	240	86 J
C785	DIBENZO(A,H)ANTHRACENE	240	15 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011775

INST ID: 4010 SAMPLE NUMBER: SC-W9(SD)C

ORGANICS ANALYSIS DATA SHEET -

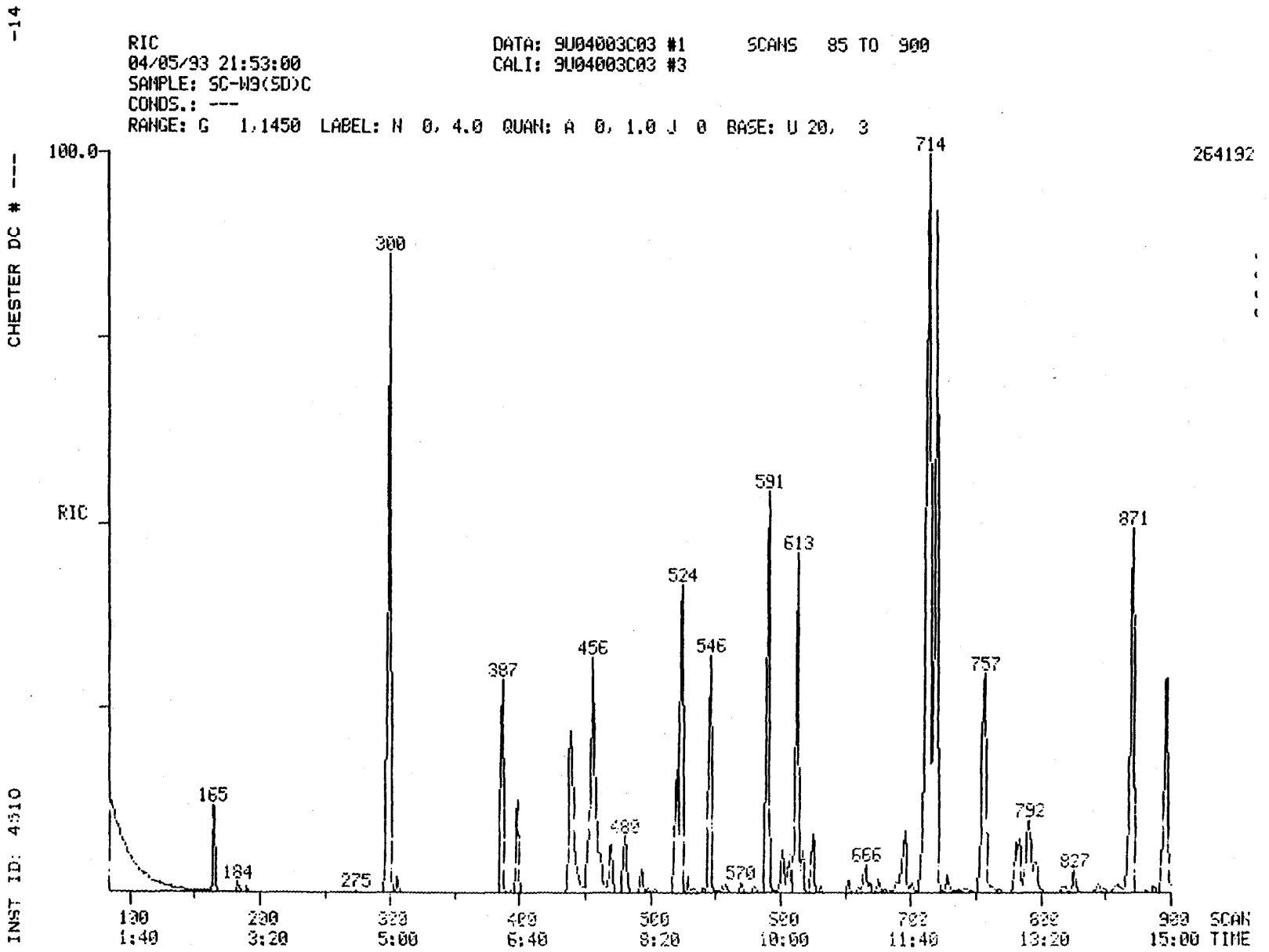
LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930400303 QC REPORT NO.: 03/30/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: 3/31/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04003C03
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/05/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	240	2200
C540	ACENAPHTHYLENE	240	22 J
C550	ACENAPHTHENE	240	1100
C590	FLUORENE	240	1600
C640	PHENANTHRENE	240	3200
C645	ANTHRACENE	240	2100
C655	FLUORANTHENE	240	1300
C715	PYRENE	240	1100
C730	BENZO(A)ANTHRACENE	240	330
C740	CHRYSENE	240	320
C765	BENZO(B)FLUORANTHENE	240	300
C770	BENZO(K)FLUORANTHENE	240 U	
C775	BENZO(A)PYRENE	240	190 J
C780	INDENO(1,2,3-CD)PYRENE	240	86 J
C785	DIBENZO(A,H)ANTHRACENE	240	15 J
C790	BENZO(GHI)PERYLENE	240	81 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT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DATA: 9U04003C03 #1
CALI: 9U04003C03 #3
SCANS 85 TO 900
CHESTER DC # ---
INST ID: 4510
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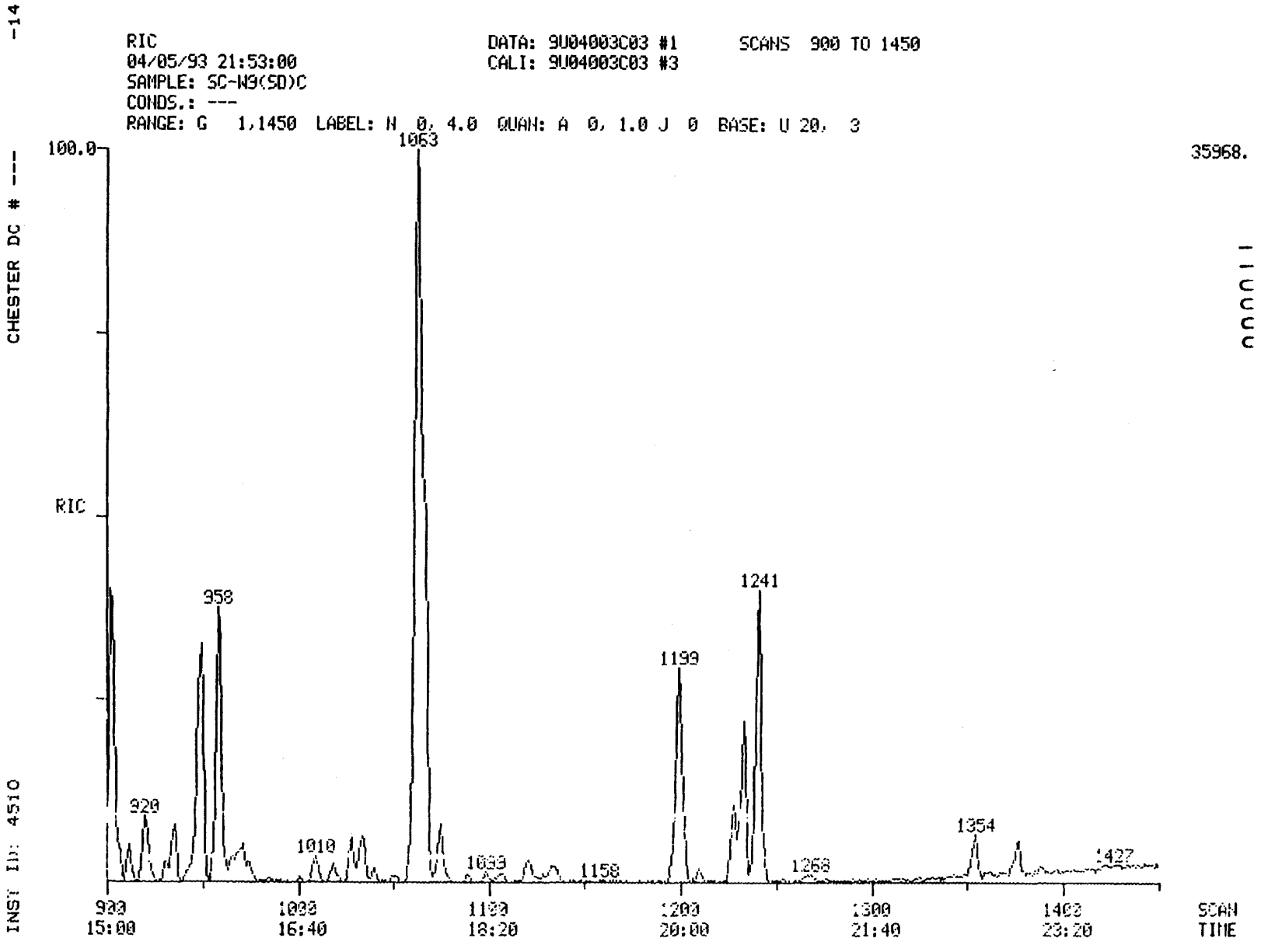
SCAN TIME

011776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DATA: 9U04003C03 #1
CALI: 9U04003C03 #3
SCANS 900 TO 1450
CHESTER DC # ---
INST ID: 4510
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1063
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1241
1268
1354
1427
900
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1100
18:20
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20:00
1300
21:40
1400
23:20
SCAN
TIME

011777

011778

SAMPLE ID.	SC-W9(SD)C		
FILENAME	9U04003C03	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JDD
DATE INJECTED	04/05/93 21:53:00	VERIFIED BY	JDD
CALIB STD DATE	03/30/93	CORR. FACTOR	24.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	ARE
165	0:130	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	480	MG/KG	1.000	119
278	0:140	NAPHTHALENE-D8 ** IS2 **		136	480	MG/KG	1.000	467
520	0:150	ACENAPHTHENE-D10 ** IS3 **		164	480	MG/KG	1.000	309
711	0:160	PHENANTHRENE-D10 ** IS4 **		188	480	MG/KG	1.000	518
1064	0:170	CHRYSENE-D12 ** IS5 **		240	480	MG/KG	1.000	299
1241	0:175	PERYLENE-D12 ** IS6 **		264	480	MG/KG	1.000	197
300	0:450	NAPHTHALENE	39B	128	2247	MG/KG	1.007	2416
478	0:540	ACENAPHTHYLENE	2B	152	22	MG/KG	0.958	24
524	0:550	ACENAPHTHENE	1B	153	1070	MG/KG	1.008	659
571	0:590	FLUORENE	32B	166	1567	MG/KG	1.137	1181
714	0:640	PHENANTHRENE	44B	178	3174	MG/KG	1.004	4192
720	0:645	ANTHRACENE	3B	178	2120	MG/KG	1.013	2964
871	0:655	FLUORANTHENE	31B	202	1323	MG/KG	1.225	1737
876	0:715	PYRENE	45B	202	1090	MG/KG	0.842	1150
1062	0:730	BENZO(A)ANTHRACENE	5B	228	327	MG/KG	0.998	268
1067	0:740	CHRYSENE	18B	228	323	MG/KG	1.003	227
1199	0:765	BENZO(B)FLUORANTHENE	7B	252	303	MG/KG	0.966	202
1203	0:775	BENZO(A)PYRENE	6B	252	186	MG/KG	0.994	87
1354	0:780	INDENO(1,2,3-CD)PYRENE	37B	276	86	MG/KG	1.091	28
1361	0:785	DIBENZO(A,H)ANTHRACENE	19B	278	15	MG/KG	1.097	5
1377	0:790	BENZO(GHI)PERYLENE	8B	276	81	MG/KG	1.110	27

*SURROGATES WERE DILUTED OUT

011779

INST ID: 4510

CHESTER DC # ---
SAMPLE NUMBER: SC-W9(SSD)C

- 8

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930400304
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 3/31/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/06/93

DATAFILE: 9U04003C04

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	75000	59000 J
C740	CHRYSENE	75000	70000 J
C765	BENZO(B)FLUORANTHENE	75000	55000 J
C770	BENZO(K)FLUORANTHENE	75000 U	
C775	BENZO(A)PYRENE	75000	38000 J
C780	INDENO(1,2,3-CD)PYRENE	75000	16000 J
C785	DIBENZO(A,H)ANTHRACENE	75000 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011780

CHESTER DC # --- - 8

INST ID: 4310

SAMPLE NUMBER: SC-W9(SSD)C

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930400304
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 3/31/93

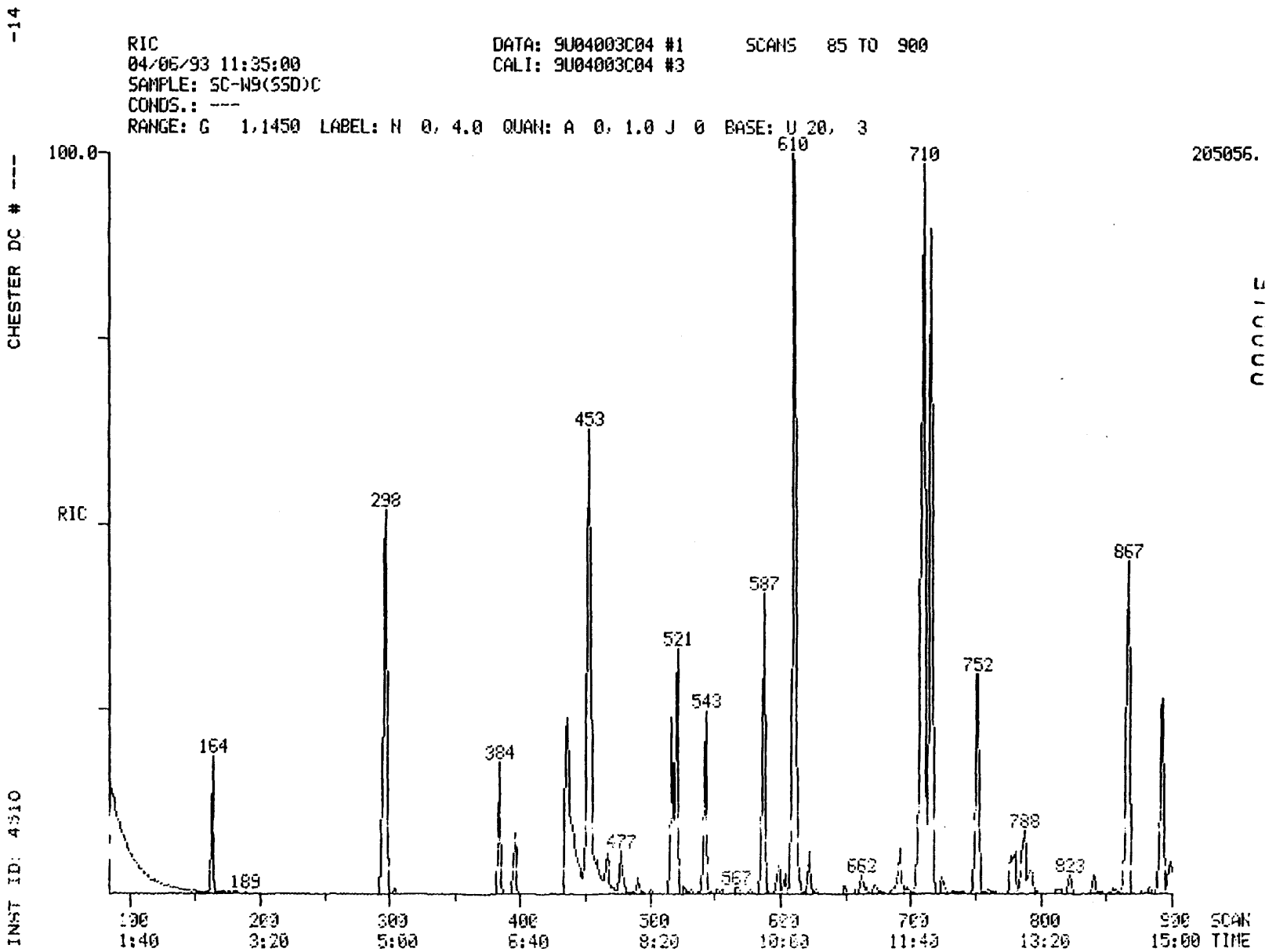
SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/06/93

DATAFILE: 9U04003C04

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	75000	360000
C540	ACENAPHTHYLENE	75000	3300 J
C550	ACENAPHTHENE	75000	190000
C590	FLUORENE	75000	290000
C640	PHENANTHRENE	75000	660000
C645	ANTHRACENE	75000	440000
C655	FLUORANTHENE	75000	250000
C715	PYRENE	75000	200000
C730	BENZO(A)ANTHRACENE	75000	59000 J
C740	CHRYSENE	75000	70000 J
C765	BENZO(B)FLUORANTHENE	75000	55000 J
C770	BENZO(K)FLUORANTHENE	75000 U	
C775	BENZO(A)PYRENE	75000	38000 J
C780	INDENO(1,2,3-CD)PYRENE	75000	16000 J
C785	DIBENZO(A,H)ANTHRACENE	75000 U	
C790	BENZO(GHI)PERYLENE	75000	15000 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT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RIC
04/06/93 11:35:00
SAMPLE: SC-W9(SSD)C
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 9U04003C04 #1
CALI: 9U04003C04 #3
SCANS 85 TO 900
CHESTER DC # ---
INST ID: 4310
100.0
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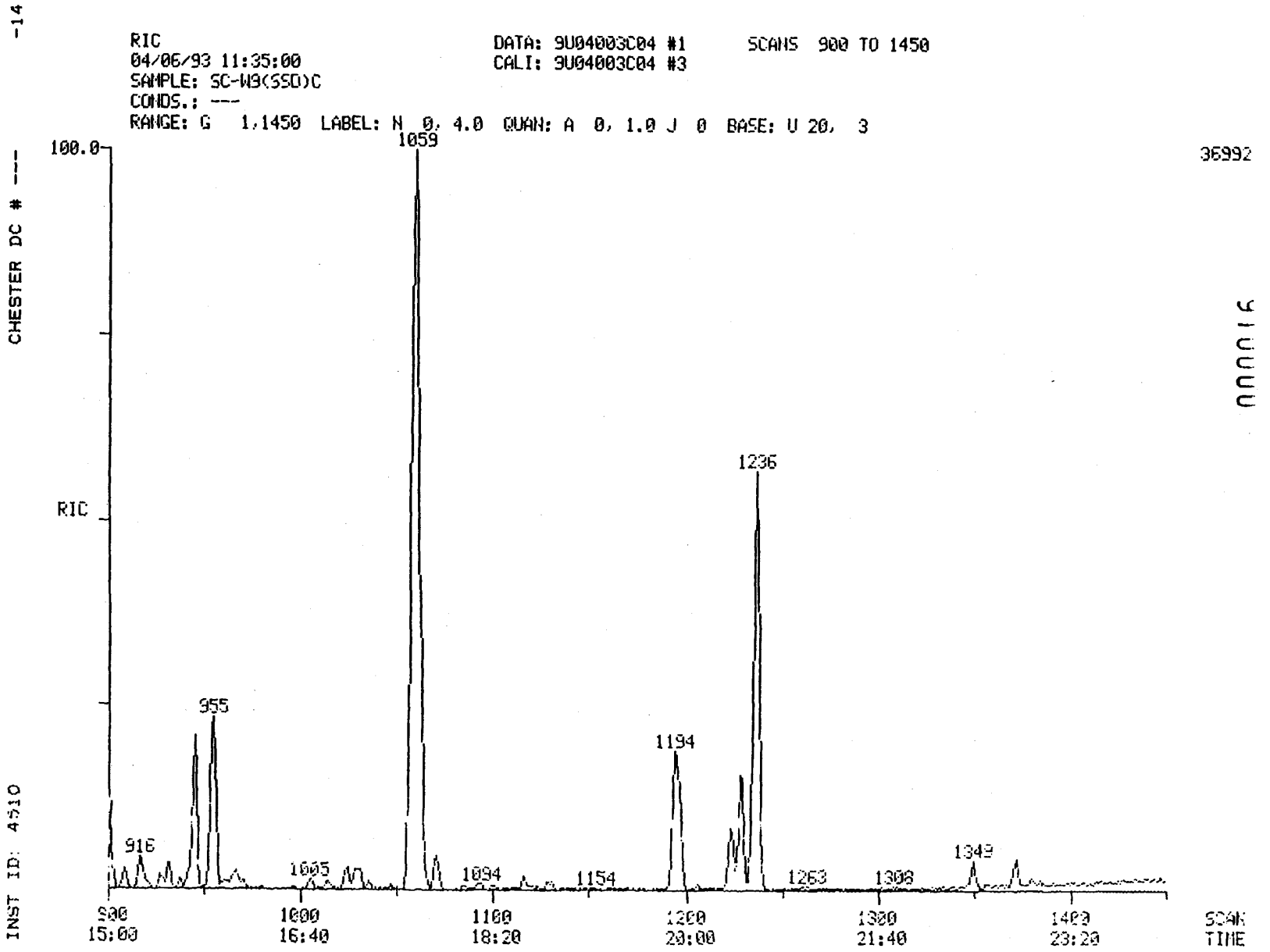
SCAN
TIME

011781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DATA: 9U04003C04 #1
CALI: 9U04003C04 #3
SCANS 900 TO 1450
CHESTER DC # ---
INST ID: 4510
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916
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1094
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1000
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1200
20:00
1300
21:40
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23:20
SCAN
TIME
36992
91000

011782

CHESTER DC # ----14

011783

SEMIVOLATILE SOIL REPORT

SAMPLE ID.	SC-W9(SSD)C		
FILENAME	9U04003C04	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JDD
DATE INJECTED	04/06/93 11:35:00	VERIFIED BY	JDD
CALIB STD DATE	03/30/93	CORR. FACTOR	7500.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	AREA
164	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	150000	UG/KG	1.000	1100
295	CI40	NAPHTHALENE-D8 ** IS2 **		136	150000	UG/KG	1.000	4225
517	CI50	ACENAPHTHENE-D10 ** IS3 **		164	150000	UG/KG	1.000	3207
707	CI60	PHENANTHRENE-D10 ** IS4 **		188	150000	UG/KG	1.000	5670
1039	CI70	CHRYSENE-D12 ** IS5 **		240	150000	UG/KG	1.000	3414
1236	CI75	PERYLENE-D12 ** IS6 **		264	150000	UG/KG	1.000	2346
298	C450	NAPHTHALENE	39B	128	355022	UG/KG	1.010	10806
495	C540	ACENAPHTHYLENE	2B	152	3346	UG/KG	0.957	124
521	C550	ACENAPHTHENE	1B	153	192181	UG/KG	1.008	3925
587	C590	FLUORENE	32B	166	294558	UG/KG	1.135	7573
710	C640	PHENANTHRENE	44B	178	662372	UG/KG	1.004	29698
716	C645	ANTHRACENE	3B	178	443137	UG/KG	1.013	21132
867	C655	FLUORANTHENE	31B	202	247961	UG/KG	1.226	11464
892	C715	PYRENE	45B	202	203244	UG/KG	0.842	7325
1038	C730	BENZO(A)ANTHRACENE	5B	228	58942	UG/KG	0.999	1797
1062	C740	CHRYSENE	18B	228	69553	UG/KG	1.003	1706
1194	C765	BENZO(B)FLUORANTHENE	7B	252	54870	UG/KG	0.966	1363
1238	C775	BENZO(A)PYRENE	6B	252	38154	UG/KG	0.994	668
1349	C780	INDENO(1,2,3-CD)PYRENE	37B	276	15757	UG/KG	1.091	191
1372	C790	BENZO(GHI)PERYLENE	8B	276	15145	UG/KG	1.110	200

*SURROGATES WERE DILUTED OUT

INST ID: 4010

CHESTER DC # --- - 8
SAMPLE NUMBER: SC-W9(MCD)C

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930400305
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 3/31/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/06/93

DATAFILE: 9U04003C05

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	82000	90000
C740	CHRYSENE	82000	110000
C765	BENZO(B)FLUORANTHENE	82000	88000
C770	BENZO(K)FLUORANTHENE	82000 U	
C775	BENZO(A)PYRENE	82000	62000 J
C780	INDENO(1,2,3-CD)PYRENE	82000	27000 J
C785	DIBENZO(A,H)ANTHRACENE	82000	4100 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011785

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SC-W9(MCD)C

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930400305
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 3/31/93

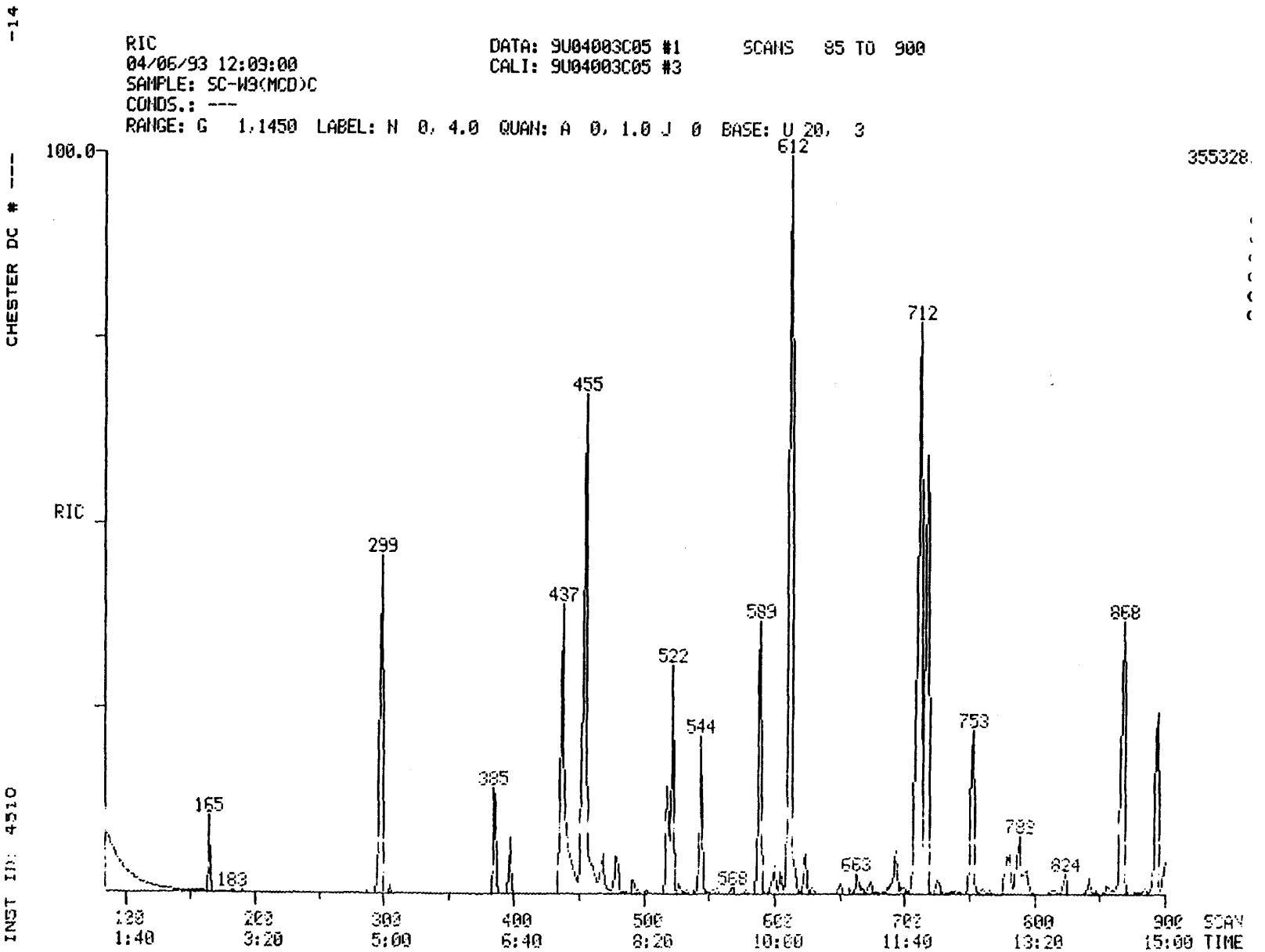
SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/06/93

DATAFILE: 9U04003C05

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	82000	570000
C540	ACENAPHTHYLENE	82000	6500 J
C550	ACENAPHTHENE	82000	310000
C590	FLUORENE	82000	440000
C640	PHENANTHRENE	82000	950000
C645	ANTHRACENE	82000	620000
C655	FLUORANTHENE	82000	410000
C715	PYRENE	82000	330000
C730	BENZO(A)ANTHRACENE	82000	90000
C740	CHRYSENE	82000	110000
C765	BENZO(B)FLUORANTHENE	82000	88000
C770	BENZO(K)FLUORANTHENE	82000 U	
C775	BENZO(A)PYRENE	82000	62000 J
C780	INDENO(1,2,3-CD)PYRENE	82000	27000 J
C785	DIBENZO(A,H)ANTHRACENE	82000	4100 J
C790	BENZO(GHI)PERYLENE	82000	26000 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT



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CONDS.: ---
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DATA: 9U04003C05 #1
CALI: 9U04003C05 #3
SCANS 85 TO 900
CHESTER DC # ---
-14
INST ID: 4510
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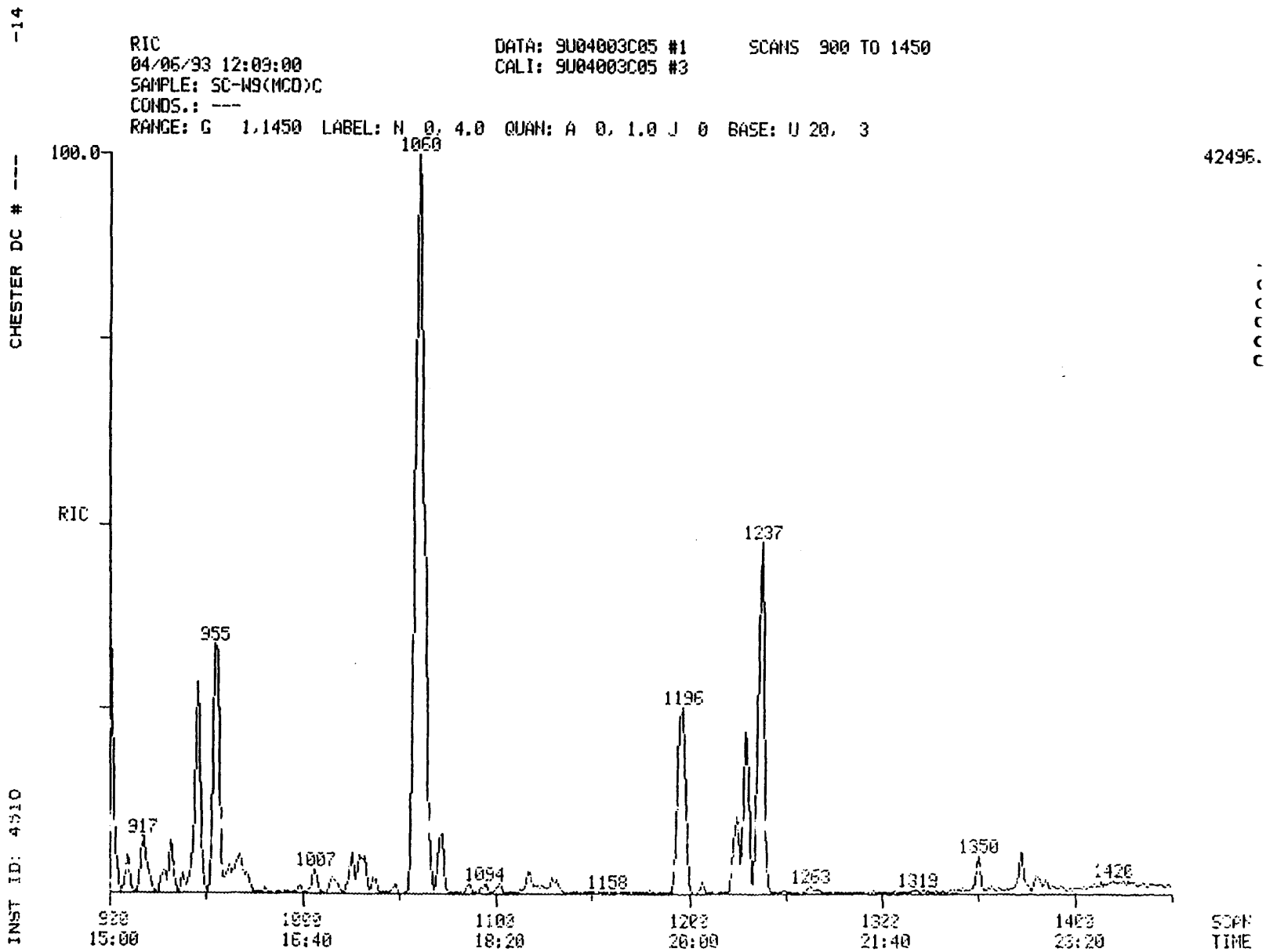
TIME

011786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CONDS.: ---
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DATA: 9U04003C05 #1
CALI: 9U04003C05 #3
SCANS 900 TO 1450
CHESTER DC # ---
INST ID: 4910
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1400
23:20
SCAN
TIME

011787

CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID.	SC-W9(MCD)C		
FILENAME	9U04003C05	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JDD
DATE INJECTED	04/06/93 12:09:00	VERIFIED BY	JDD
CALIB STD DATE	03/30/93	CORR. FACTOR	8200.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	ARE
165	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	164000	UG/KG	1.000	101
297	C140	NAPHTHALENE-D8 ** IS2 **		136	164000	UG/KG	1.000	411
518	C150	ACENAPHTHENE-D10 ** IS3 **		164	164000	UG/KG	1.000	325
708	C160	PHENANTHRENE-D10 ** IS4 **		188	164000	UG/KG	1.000	579
1061	C170	CHRYSENE-D12 ** IS5 **		240	164000	UG/KG	1.000	359
1237	C175	PERYLENE-D12 ** IS6 **		264	164000	UG/KG	1.000	237
299	C450	NAPHTHALENE	39B	128	565972	UG/KG	1.007	1534
496	C540	ACENAPHTHYLENE	2B	152	6502	UG/KG	0.958	22
522	C550	ACENAPHTHENE	1B	153	312422	UG/KG	1.008	591
589	C590	FLUORENE	32B	166	444352	UG/KG	1.137	1059
712	C640	PHENANTHRENE	44B	178	950601	UG/KG	1.006	3982
717	C645	ANTHRACENE	3B	178	617461	UG/KG	1.013	2751
868	C655	FLUORANTHENE	31B	202	407955	UG/KG	1.226	1762
874	C715	PYRENE	45B	202	326642	UG/KG	0.843	1134
1059	C730	BENZO(A)ANTHRACENE	5B	228	90475	UG/KG	0.998	265
1063	C740	CHRYSENE	18B	228	105847	UG/KG	1.002	250
1175	C765	BENZO(B)FLUORANTHENE	7B	252	87748	UG/KG	0.966	201
1229	C775	BENZO(A)PYRENE	6B	252	62197	UG/KG	0.994	100
1350	C780	INDENO(1,2,3-CD)PYRENE	37B	276	27210	UG/KG	1.091	30
1357	C785	DIBENZO(A,H)ANTHRACENE	19B	278	4133	UG/KG	1.097	4
1372	C790	BENZO(GHI)PERYLENE	8B	276	25997	UG/KG	1.109	31

*SURROGATES WERE DILUTED OUT

INST ID: 4510 SAMPLE NUMBER: SC-W9(C1/C2)C

011788.001

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930400306 QC REPORT NO.: 03/30/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: ..3/31/93.....

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04003C06
DATE EXTRACTED: ..4/1/93.....
DATE ANALYZED: 04/06/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	150	180
C740	CHRYSENE	150	160
C765	BENZO(B)FLUORANTHENE	150	140 J
C770	BENZO(K)FLUORANTHENE	150 U	
C775	BENZO(A)PYRENE	150	83 J
C780	INDENO(1,2,3-CD)PYRENE	150	37 J
C785	DIBENZO(A,H)ANTHRACENE	150 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

011789

INST ID: 4510 SAMPLE NUMBER: SC-W9(C1/C2)C

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 930400306 QC REPORT NO.: 03/30/93
SAMPLE MATRIX: SOIL CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: RG DATE SAMPLE RECEIVED: 3/31/93

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9U04003C06
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/06/93

	COMPOUND	DETECTION LIMIT (MILLIGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	150	1400
C540	ACENAPHTHYLENE	150	18 J
C550	ACENAPHTHENE	150	750
C590	FLUORENE	150	950
C640	PHENANTHRENE	150	2000
C645	ANTHRACENE	150	830
C655	FLUORANTHENE	150	890
C715	PYRENE	150	710
C730	BENZO(A)ANTHRACENE	150	180
C740	CHRYSENE	150	160
C765	BENZO(B)FLUORANTHENE	150	140 J
C770	BENZO(K)FLUORANTHENE	150 U	
C775	BENZO(A)PYRENE	150	83 J
C780	INDENO(1,2,3-CD)PYRENE	150	37 J
C785	DIBENZO(A,H)ANTHRACENE	150 U	
C790	BENZO(GHI)PERYLENE	150	35 J

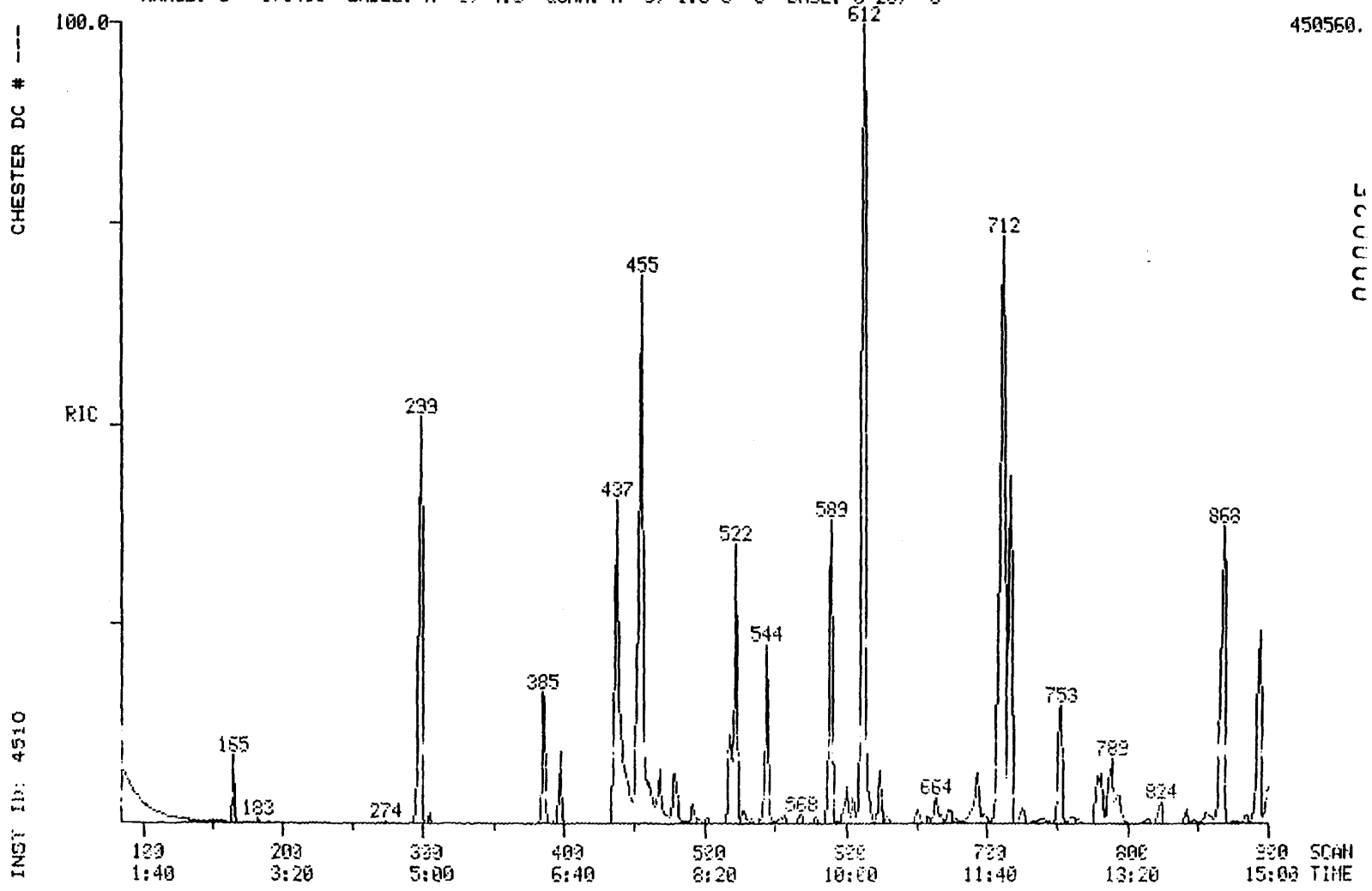
U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

-14

RIC
04/06/93 11:01:00
SAMPLE: SC-W9(C1/C2)C
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04003C06 #1
CALI: 9U04003C06 #3

SCANS 85 TO 900



011790

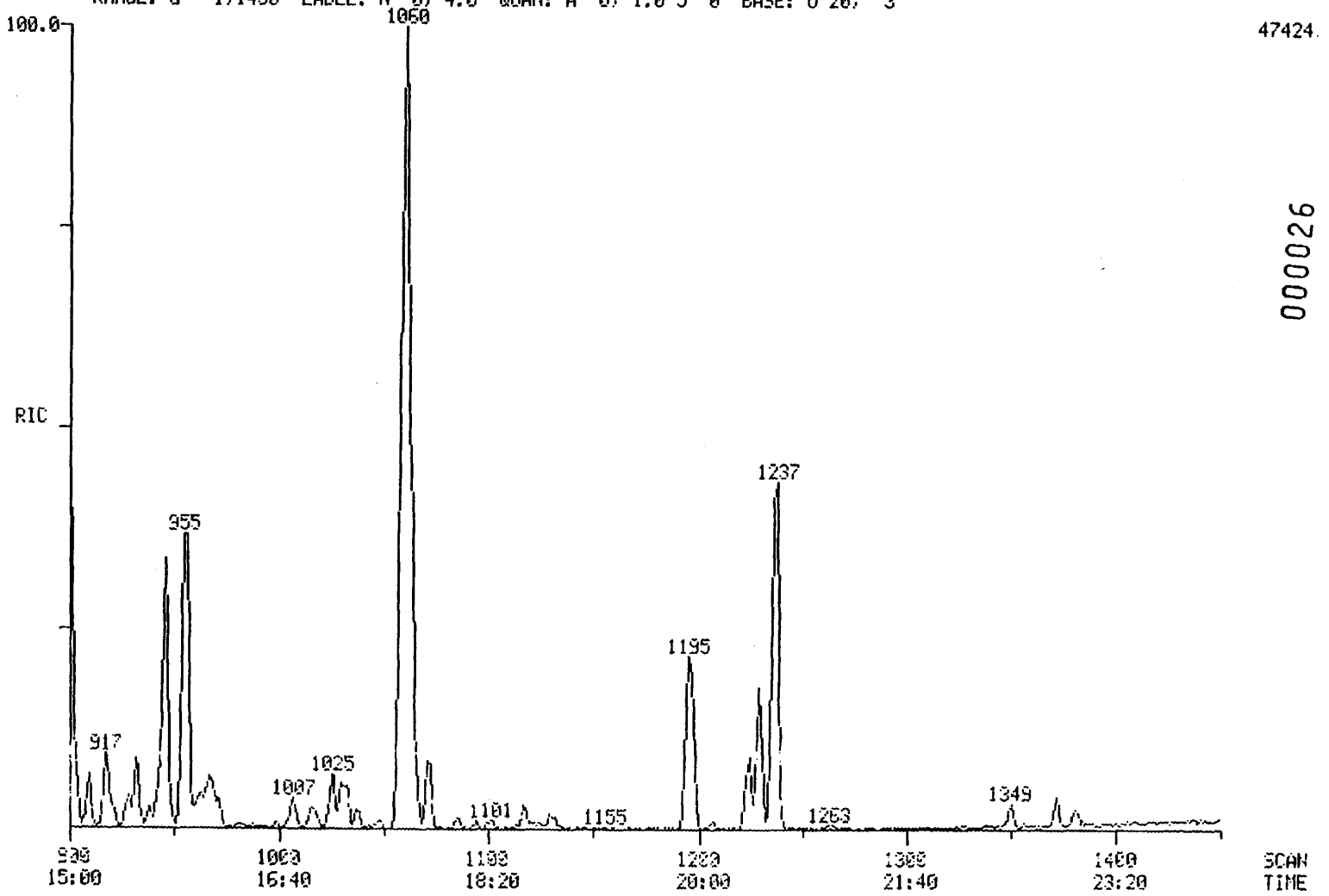
-14

RIC
04/06/93 11:01:00
SAMPLE: SC-W9(C1/C2)C
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04003C06 #1 SCANS 900 TO 1450
CALI: 9U04003C06 #3

CHESTER DC # ---

INST ID: 4910



000026

011791

011792

SAMPLE ID.	SC-W9(C1/C2)C		
FILENAME	9U04003C06	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JDD
DATE INJECTED	04/06/93 11:01:00	VERIFIED BY	JDD
CALIB STD DATE	03/30/93	CORR. FACTOR	15.00

SCAN#		SEMIVOLATILE COMPOUNDS		M/E	AMOUNT		RRT	ARE
165	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **		152	300	MG/KG	1.000	111
297	C140	NAPHTHALENE-D8 ** IS2 **		136	300	MG/KG	1.000	453
518	C150	ACENAPHTHENE-D10 ** IS3 **		164	300	MG/KG	1.000	359
709	C160	PHENANTHRENE-D10 ** IS4 **		188	300	MG/KG	1.000	630
1060	C170	CHRYSENE-D12 ** IS5 **		240	300	MG/KG	1.000	383
1236	C175	PERYLENE-D12 ** IS6 **		264	300	MG/KG	1.000	258
299	C450	NAPHTHALENE	39B	128	1436	MG/KG	1.007	2347
496	C540	ACENAPHTHYLENE	2B	152	18	MG/KG	0.958	37
522	C550	ACENAPHTHENE	1B	153	752	MG/KG	1.008	861
589	C590	FLUORENE	32B	166	953	MG/KG	1.137	1374
712	C640	PHENANTHRENE	44B	178	2011	MG/KG	1.004	5010
717	C645	ANTHRACENE	3B	178	829	MG/KG	1.011	2197
868	C655	FLUORANTHENE	31B	202	889	MG/KG	1.224	2283
894	C715	PYRENE	45B	202	707	MG/KG	0.843	1432
1059	C730	BENZO(A)ANTHRACENE	5B	228	179	MG/KG	0.999	307
1063	C740	CHRYSENE	18B	228	164	MG/KG	1.003	226
1195	C765	BENZO(B)FLUORANTHENE	7B	252	140	MG/KG	0.967	191
1229	C775	BENZO(A)PYRENE	6B	252	83	MG/KG	0.994	79
1349	C780	INDENO(1,2,3-CD)PYRENE	37B	276	37	MG/KG	1.091	24
1372	C790	BENZO(GHI)PERYLENE	8B	276	35	MG/KG	1.110	25

*SURROGATES WERE DILUTED OUT

011793

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. ---
CONTRACT LAB: KEYSTONE
CONTRACT NO. ---
INSTRUMENT IDENTIFIER: 4510
CALIBRATION DATE: 03/30/93
STANDARD FILE: FS0405C02A
DATE: 04/05/93 TIME: 11:09
MAXIMUM % D FOR CCC IS 20

	COMPOUND	MEAN RF(I)	RF(D)	% D
C315	PHENOL	1.911	1.841	-3.635
C325	BIS(2-CHLOROETHYL)ETHE	1.904	1.619	-14.993
C330	2-CHLOROPHENOL	1.458	1.479	1.456
C335	1,3-DICHLOROBENZENE	1.510	1.559	3.254
C340	1,4-DICHLOROBENZENE	1.602	1.613	0.641
C345	BENZYL ALCOHOL	0.983	0.814	-17.213
C350	1,2-DICHLOROBENZENE	1.495	1.488	-0.488
C355	2-METHYLPHENOL	1.587	1.559	-1.805
C357	2,2'-OXYBIS(1-CHLOROPR	1.913	2.192	14.616
C365	4-METHYLPHENOL	1.690	1.669	-1.284
C370	N-NITROSODIPROPYLAMINE	1.146	1.106	-3.524
C375	HEXACHLOROETHANE	0.629	0.607	-3.588
C410	NITROBENZENE	0.344	0.424	22.930
C415	ISOPHORONE	0.742	0.815	9.880
C420	2-NITROPHENOL	0.217	0.213	-1.849
C425	2,4-DIMETHYLPHENOL	0.309	0.307	-0.788
C430	BENZOIC ACID	0.227	0.224	-1.467
C435	BIS(2-CHLOROETHOXY)MET	0.537	0.479	-10.759
C440	2,4-DICHLOROPHENOL	0.280	0.274	-2.240
C445	1,2,4-TRICHLOROBENZENE	0.279	0.295	5.913
C450	NAPHTHALENE	1.067	1.104	3.424
C455	4-CHLOROANILINE	0.391	0.323	-17.473
C460	HEXACHLOROBUTADIENE	0.106	0.111	4.256
C465	P-CHLORO-M-CRESOL	0.301	0.282	-6.252
C470	2-METHYLNAPHTHALENE	0.805	0.788	-2.092
C510	HEXACHLOROCYCLOPENTADI	0.234	0.217	-7.149
C515	2,4,6-TRICHLOROPHENOL	0.304	0.303	-0.361
C520	2,4,5-TRICHLOROPHENOL	0.331	0.356	7.395
C525	2-CHLORONAPHTHALENE	1.153	1.159	0.455
C530	2-NITROANILINE	0.330	0.390	18.234
C535	DIMETHYL PHTHALATE	1.226	1.141	-6.941
C540	ACENAPHTHYLENE	1.737	1.680	-3.300
C545	3-NITROANILINE	0.338	0.330	-2.190
C550	ACENAPHTHENE	0.989	0.957	-3.292
C555	2,4-DINITROPHENOL	0.169	0.133	-21.630
C560	4-NITROPHENOL	0.099	0.069	[illegible]
C565	DIBENZOFURAN	1.535	1.531	-0.277
C570	2,4-DINITROTOLUENE	0.358	0.347	-3.145
C543	2,6-DINITROTOLUENE	0.358	0.386	7.802
C580	DIETHYL PHTHALATE	1.162	1.094	-5.894
C585	4-CHLOROPHENYL PHENYL	0.556	0.528	-5.044
C590	FLUORENE	1.195	1.170	-2.099
C595	4-NITROANILINE	0.326	0.298	-8.547
C610	4,6-DINITRO-2-METHYLPH	0.155	0.144	-6.838
C615	N-NITROSODIPHENYLAMINE	0.709	0.670	-5.526
C625	4-BROMOPHENYL PHENYL E	0.183	0.174	-4.571
C630	HEXACHLOROBENZENE	0.156	0.162	3.798
C635	PENTACHLOROPHENOL	0.110	0.089	-18.333
C640	PHENANTHRENE	1.200	1.223	1.975
C645	ANTHRACENE	1.222	1.295	6.021
C650	DI-N-BUTYL PHTHALATE	1.554	1.644	5.786
C655	FLUORANTHENE	1.084	1.216	12.198

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C715	PYRENE	1.694	1.692	-0.120
C720	BUTYL BENZYL PHTHALATE	0.920	0.870	-5.357
C725	3,3'-DICHLOROBENZIDINE	0.383	0.359	-6.271
C730	BENZO(A)ANTHRACENE	1.386	1.318	-4.866
C745	BIS(2-ETHYLHEXYL)PHTHA	1.272	1.290	1.408
C740	CHRYSENE	1.113	1.128	1.327
C760	DI-N-OCTYL PHTHALATE	2.485	2.771	11.530
C765	BENZO(B)FLUORANTHENE	1.563	1.628	4.189
C770	BENZO(K)FLUORANTHENE	1.250	1.252	0.164
C775	BENZO(A)PYRENE	1.124	1.145	1.877
C780	INDENO(1,2,3-CD)PYRENE	0.790	0.808	2.342
C785	DIBENZO(A,H)ANTHRACENE	0.808	0.801	-0.867
C790	BENZO(GHI)PERYLENE	0.831	0.836	0.643
C310	N-NITROSODIMETHYLAMINE	1.075	1.331	23.835
C620	1,2-DIPHENYL-HYDRAZINE	1.095	1.082	-1.185
CS70	2-CHLOROPHENOL-D4 ** S	1.828	1.961	7.271
CS75	1,2-DICHLOROBENZENE-D4	0.866	0.885	2.187
C647	CARBAZOLE	1.197	1.246	4.050
CS50	2-FLUOROPHENOL ** SU1	1.588	1.649	3.801
CS45	PHENOL-D5 ** SU2 **	1.977	2.167	9.566
CS55	2,4,6-TRIBROMOPHENOL	0.097	0.090	-6.694
CS20	NITROBENZENE-D5 ** SU3	0.342	0.401	17.214
CS25	2-FLUOROBIPHENYL ** SU	1.162	1.245	7.130
CS30	TERPHENYL-D14 ** SU6	1.230	1.392	13.108

BENZENETHIOL
METHYL CHRYSENE
QUINOLINE
C720 1-METHYLNAPHTHALENE
7,12-DIMETHYLBENZ(A)ANTHRACE
DIBENZ(A,H)ACRIDINE
3+4-METHYLPHENOL
INDENE
A950 PYRIDINE
A953 2,6-DICHLOROPHENOL
A987 2,5-DICHLOROPHENOL
A988 3,4-DICHLOROPHENOL
A989 2,3-DICHLOROPHENOL
A990 3,5-DICHLOROPHENOL
A991 1,3,5-TRICHLOROBENZENE
A992 1,2,3-TRICHLOROBENZENE

CHESTER DC # -----17

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4510

LAB ID. FS0405C02A

CLIENT CHESTER ANALYST JDD

DATE INJECTED 04/05/93 11:09:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	164	40	12602	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	296	40	45124	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	518	40	24120	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	708	40	31724	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1061	40	22750	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1237	40	17535	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	88	50	25968	0.537	1.648
CS45	PHENOL-D5 ** SU2 **	99	163	50	34129	0.994	2.167
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	626	50	2725	1.208	0.090
CS20	NITROBENZENE-D5 ** SU3 **	82	222	50	22606	0.750	0.401
CS25	2-FLUOROBIPHENYL ** SU4 **	172	443	50	37536	0.855	1.245
CS30	TERPHENYL-D14 ** SU6 **	244	938	50	39576	0.884	1.392
C315	PHENOL	94	165	50	29002	1.006	1.841
C325	BIS(2-CHLOROETHYL)ETHER	93	153	50	25496	0.933	1.619
C330	2-CHLOROPHENOL	128	155	50	23303	0.945	1.479
C335	1,3-DICHLOROBENZENE	146	160	50	24559	0.976	1.559
C340	1,4-DICHLOROBENZENE	146	166	50	25402	1.012	1.613
C345	BENZYL ALCOHOL	108	190	50	12821	1.159	0.814
C350	1,2-DICHLOROBENZENE	146	181	50	23441	1.104	1.488
C355	2-METHYLPHENOL	108	218	50	24554	1.329	1.559
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	205	50	34534	1.250	2.192
C365	4-METHYLPHENOL	108	237	50	26285	1.445	1.669
C370	N-NITROSODIPROPYLAMINE	70	219	50	17419	1.335	1.106
C375	HEXACHLOROETHANE	117	210	50	9554	1.280	0.607
C410	NITROBENZENE	77	224	50	23892	0.757	0.424
C415	ISOPHORONE	82	254	50	45979	0.858	0.815
C420	2-NITROPHENOL	139	259	50	12028	0.875	0.213
C425	2,4-DIMETHYLPHENOL	107	290	50	17319	0.980	0.307
C430	BENZOIC ACID	122	327	50	12613	1.105	0.224
C435	BIS(2-CHLOROETHOXY)METHANE	93	290	50	27036	0.980	0.479
C440	2,4-DICHLOROPHENOL	162	301	50	15434	1.017	0.274
C445	1,2,4-TRICHLOROBENZENE	180	295	50	16648	0.997	0.295
C450	NAPHTHALENE	128	298	50	62257	1.007	1.104
C455	4-CHLOROANILINE	127	323	50	18215	1.091	0.323
C460	HEXACHLOROBUTADIENE	225	329	50	6262	1.111	0.111
C465	P-CHLORO-M-CRESOL	107	409	50	15928	1.382	0.282
C470	2-METHYLNAPHTHALENE	142	385	50	44433	1.301	0.788
C510	HEXACHLOROCYCLOPENTADIENE	237	418	50	6543	0.807	0.217
C515	2,4,6-TRICHLOROPHENOL	196	438	50	9122	0.846	0.303
C520	2,4,5-TRICHLOROPHENOL	196	453	50	10730	0.875	0.356
C525	2-CHLORONAPHTHALENE	162	445	50	34933	0.859	1.159
C530	2-NITROANILINE	65	475	50	11749	0.917	0.390
C535	DIMETHYL PHTHALATE	163	512	50	34399	0.988	1.141
C540	ACENAPHTHYLENE	152	496	50	50650	0.958	1.680
C545	3-NITROANILINE	138	532	50	9963	1.027	0.330
C550	ACENAPHTHENE	153	522	50	28843	1.008	0.957

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SV STANDARD REPORT PAGE 2

DATAFILE FS0405C02A

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	184	544	50	4000	1.050	0.133
C560	4-NITROPHENOL	109	601	50	2079	1.160	0.069
C565	DIBENZOFURAN	168	544	50	46150	1.050	1.531
C570	2,4-DINITROTOLUENE	165	564	50	10460	1.089	0.347
C543	2,6-DINITROTOLUENE	165	516	50	11629	0.996	0.386
C580	DIETHYL PHTHALATE	149	609	50	32973	1.176	1.094
C585	4-CHLOROPHENYL PHENYL ETHER	204	601	50	15922	1.160	0.528
C590	FLUORENE	166	588	50	35262	1.135	1.170
C595	4-NITROANILINE	138	613	50	8999	1.183	0.298
C610	4,6-DINITRO-2-METHYLPHENOL	198	616	50	5724	0.870	0.144
C615	N-NITROSODIPHENYLAMINE	169	622	50	26564	0.879	0.670
C625	4-BROMOPHENYL PHENYL ETHER	248	662	50	6911	0.935	0.174
C630	HEXACHLOROBENZENE	284	670	50	6414	0.946	0.162
C635	PENTACHLOROPHENOL	266	706	50	3545	0.997	0.089
C640	PHENANTHRENE	178	710	50	48508	1.003	1.223
C645	ANTHRACENE	178	716	50	51368	1.011	1.295
C650	DI-N-BUTYL PHTHALATE	149	830	50	65198	1.172	1.644
C655	FLUORANTHENE	202	867	50	48238	1.225	1.216
C715	PYRENE	202	893	50	48111	0.842	1.692
C720	BUTYL BENZYL PHTHALATE	149	1025	50	24754	0.966	0.870
C725	3,3'-DICHLOROBENZIDINE	252	1075	50	10218	1.013	0.359
C730	BENZO(A)ANTHRACENE	228	1059	50	37486	0.998	1.318
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1120	50	36680	1.056	1.290
C740	CHRYSENE	228	1064	50	32085	1.003	1.128
C760	DI-N-OCTYL PHTHALATE	149	1200	50	60746	0.970	2.771
C765	BENZO(B)FLUORANTHENE	252	1196	50	35693	0.967	1.628
C770	BENZO(K)FLUORANTHENE	252	1198	50	27443	0.968	1.252
C775	BENZO(A)PYRENE	252	1229	50	25103	0.994	1.145
C780	INDENO(1,2,3-CD)PYRENE	276	1350	50	17720	1.091	0.808
C785	DIBENZO(A,H)ANTHRACENE	278	1357	50	17567	1.097	0.801
C790	BENZO(GHI)PERYLENE	276	1372	50	18323	1.109	0.836
C620	1,2-DIPHENYL-HYDRAZINE						

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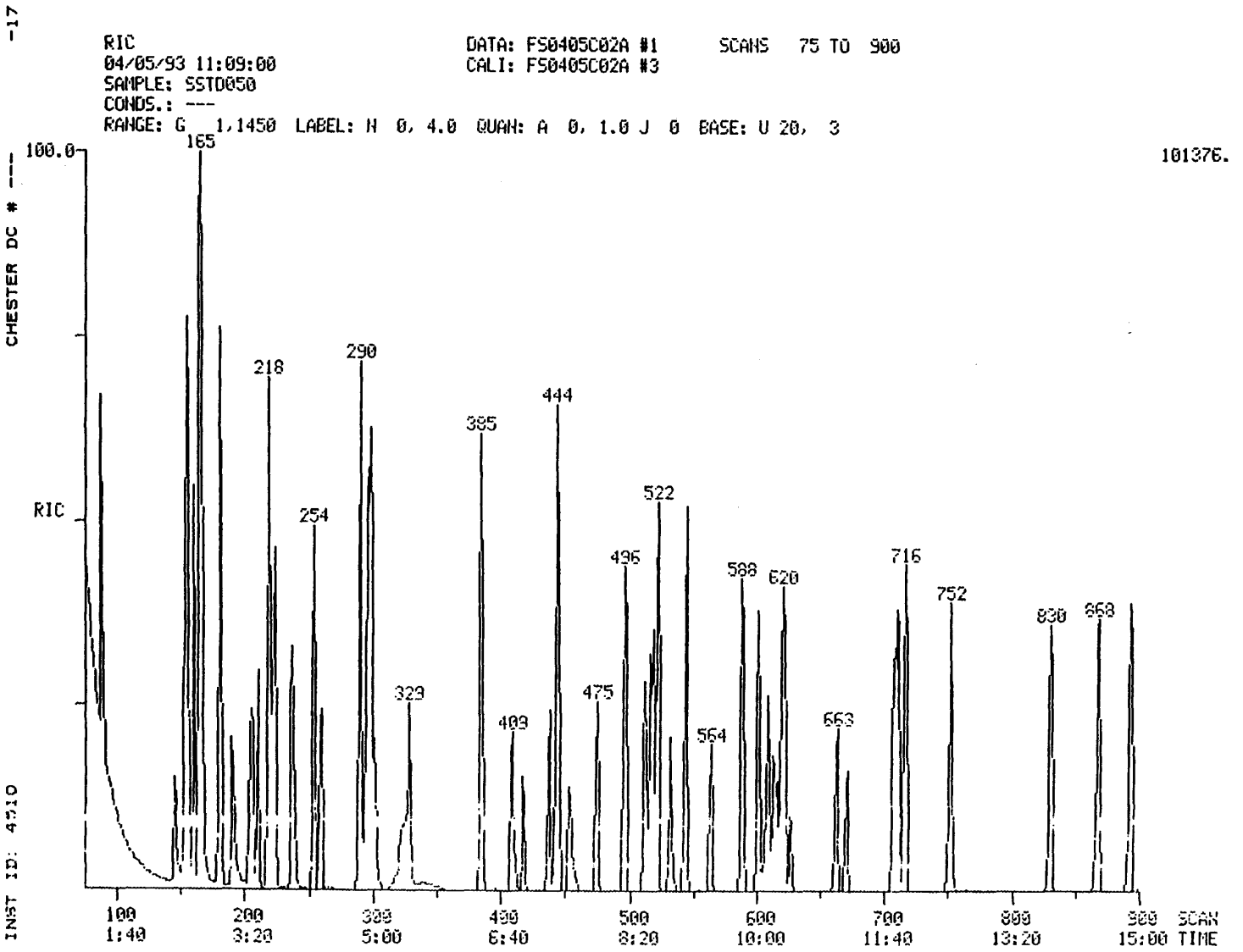
-17
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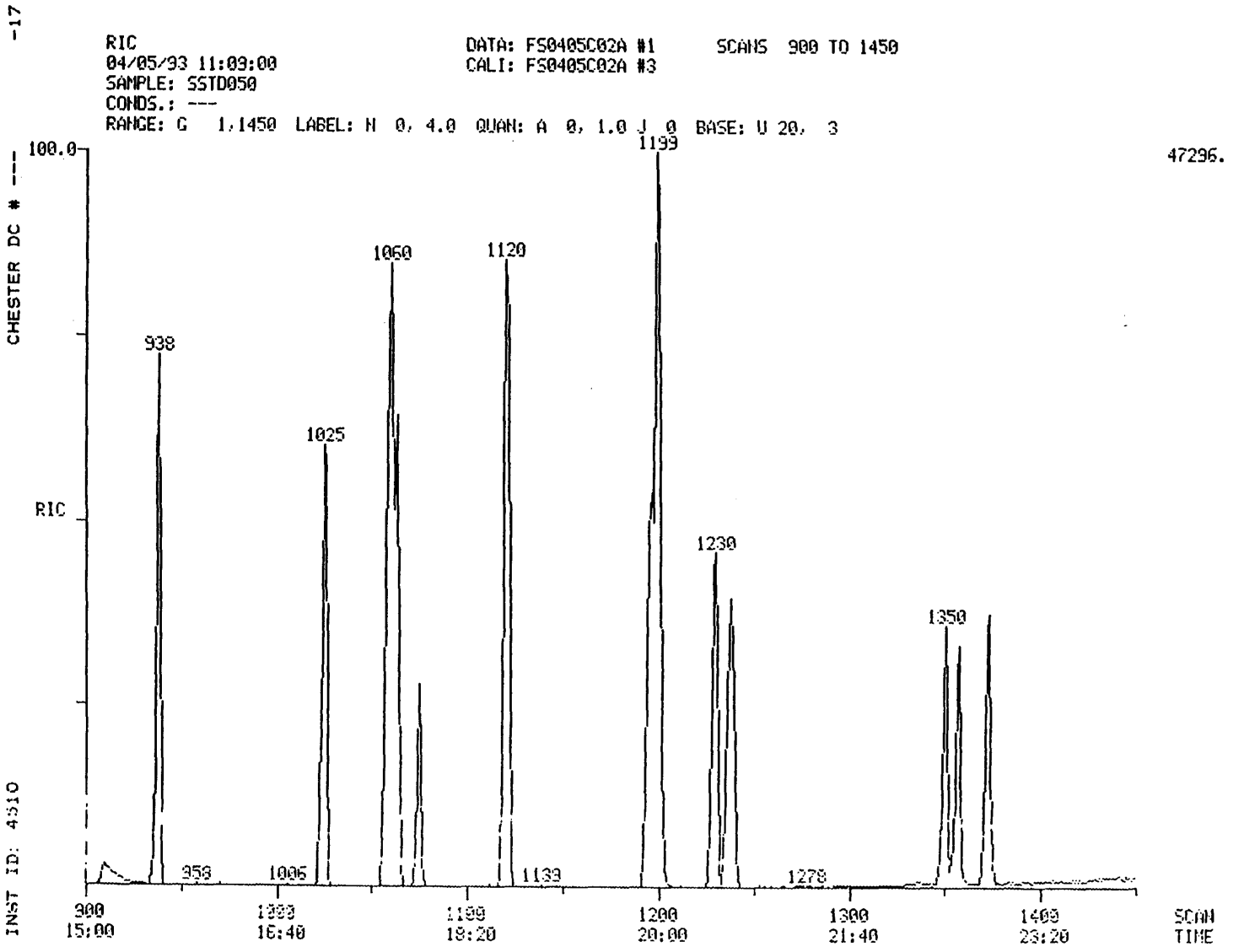
04/05/93 11:09:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: FS0405C02A #1
CALI: FS0405C02A #3
SCANS 75 TO 900
101376.
CHESTER DC # ---
INST ID: 4510
100.0
RIC
165
218
254
290
329
385
409
444
475
496
522
564
588
620
663
716
752
830
868
100 1:40
200 3:20
300 5:00
400 6:40
500 8:20
600 10:00
700 11:40
800 13:20
900 15:00
SCAN
TIME

011797


-17
RIC
04/05/93 11:09:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: FS0405C02A #1
CALI: FS0405C02A #3
SCANS 900 TO 1450
47296.
CHESTER DC # ---
100.0
RIC
INST ID: 4510
938
1025
1050
1120
1199
1230
1350
959
1006
1133
1278
900
15:00
1000
16:40
1100
18:20
1200
20:00
1300
21:40
1400
23:20
SCAN
TIME

011798

011799

Quantitation Report File: FS0405C02A

Data: FS0405C02A.TI
04/05/93 11:09:00
Sample: SSFD050
Conds.: ---
Formula: 03/30/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	C140	NAPHTHALENE-D8 ** IS2 **	
3	C150	ACENAPHTHENE-D10 ** IS3 **	
4	C160	PHENANTHRENE-D10 ** IS4 **	
5	C170	CHRYSENE-D12 ** IS5 **	
6	C175	PERYLENE-D12 ** IS6 **	
7	C550	2-FLUOROPHENOL ** SU1 **	
8	C545	PHENOL-D5 ** SU2 **	
9	C555	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	C520	NITROBENZENE-D5 ** SU3 **	
11	C525	2-FLUOROBIPHENYL ** SU4 **	
12	C530	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	164	2:44	1	1.000	A BB	12602.	40.000 UG/L	0.99
2	136	296	4:56	2	1.000	A BB	45124.	40.000 UG/L	0.99
3	164	518	8:38	3	1.000	A VB	24120.	40.000 UG/L	0.99
4	188	708	11:48	4	1.000	A BB	31724.	40.000 UG/L	0.99
5	240	1061	17:41	5	1.000	A BB	22750.	40.000 UG/L	0.99
6	264	1237	20:37	6	1.000	A BB	17535.	40.000 UG/L	0.99
7	112	88	1:28	1	0.537	A BB	25968.	50.000 UG/L	1.24
8	99	163	2:43	1	0.994	A BB	34129.	50.000 UG/L	1.24
9	330	626	10:26	3	1.208	A BB	2725.	50.000 UG/L	1.24
10	82	222	3:42	2	0.750	A BB	22606.	50.000 UG/L	1.24
11	172	443	7:23	3	0.855	A BB	37536.	50.000 UG/L	1.24
12	244	938	15:38	5	0.884	A BB	39576.	50.000 UG/L	1.24
13	94	165	2:45	1	1.006	A BB	29002.	50.000 UG/L	1.24
14	93	153	2:33	1	0.933	A VB	25496.	50.000 UG/L	1.24
15	108	155	2:35	1	0.945	A BB	23303.	50.000 UG/L	1.24
16	146	160	2:40	1	0.976	A BB	24559.	50.000 UG/L	1.24
17	146	166	2:46	1	1.012	A BB	25402.	50.000 UG/L	1.24
18	108	190	3:10	1	1.159	A BB	12821.	50.000 UG/L	1.24
19	146	181	3:01	1	1.104	A BB	23441.	50.000 UG/L	1.24
20	108	218	3:38	1	1.329	A BB	24554.	50.000 UG/L	1.24
21	45	205	3:25	1	1.250	A BB	34534.	50.000 UG/L	1.24
22	108	237	3:57	1	1.445	A BB	26285.	50.000 UG/L	1.24
23	70	219	3:39	1	1.335	M XX	17419.	50.000 UG/L	1.24
24	117	210	3:30	1	1.280	A BB	9554.	50.000 UG/L	1.24
25	77	224	3:44	2	0.757	A VB	23892.	50.000 UG/L	1.24
26	82	254	4:14	2	0.858	A BB	45979.	50.000 UG/L	1.24
27	139	259	4:19	2	0.875	A BB	12028.	50.000 UG/L	1.24
28	107	290	4:50	2	0.980	A BB	17319.	50.000 UG/L	1.24
29	122	327	5:27	2	1.105	A BB	12613.	50.000 UG/L	1.24
30	93	290	4:50	2	0.980	A BB	27036.	50.000 UG/L	1.24
31	162	301	5:01	2	1.017	A BB	15434.	50.000 UG/L	1.24
32	180	295	4:55	2	0.997	A BB	16648.	50.000 UG/L	1.24
33	128	298	4:58	2	1.007	A BB	62257.	50.000 UG/L	1.24
34	127	323	5:23	2	1.091	M XX	18215.	50.000 UG/L	1.24
35	225	329	5:29	2	1.111	A BB	6262.	50.000 UG/L	1.24
36	107	409	6:49	2	1.382	A BB	15928.	50.000 UG/L	1.24
37	142	385	6:25	2	1.301	A BB	44433.	50.000 UG/L	1.24
38	237	418	6:58	3	0.807	A BB	6543.	50.000 UG/L	1.24
39	196	438	7:18	3	0.846	A BB	9122.	50.000 UG/L	1.24
40	196	453	7:33	3	0.875	A BB	10730.	50.000 UG/L	1.24
41	162	445	7:25	3	0.859	A BB	34933.	50.000 UG/L	1.24
42	65	475	7:55	3	0.917	A BB	11749.	50.000 UG/L	1.24
43	163	512	8:32	3	0.988	A BV	34399.	50.000 UG/L	1.24
44	152	496	8:16	3	0.958	A BB	50650.	50.000 UG/L	1.24
45	138	532	8:52	3	1.027	A BB	9963.	50.000 UG/L	1.24
46	153	522	8:42	3	1.008	A BB	28843.	50.000 UG/L	1.24
47	184	544	9:04	3	1.050	A BB	4000.	50.000 UG/L	1.24
48	109	601	10:01	3	1.160	A BB	2079.	50.000 UG/L	1.24
49	168	544	9:04	3	1.050	A BB	46150.	50.000 UG/L	1.24
50	165	564	9:24	3	1.089	A BB	10460.	50.000 UG/L	1.24

011801

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	2:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	8:38	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	11:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	20:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:28	1.00	0.537	1.00	50.00	50.00	1.648	1.648	1.00
8	2:43	1.00	0.994	1.00	50.00	50.00	2.167	2.167	1.00
9	10:26	1.00	1.208	1.00	50.00	50.00	0.090	0.090	1.00
10	3:42	1.00	0.750	1.00	50.00	50.00	0.401	0.401	1.00
11	7:23	1.00	0.855	1.00	50.00	50.00	1.245	1.245	1.00
12	15:38	1.00	0.884	1.00	50.00	50.00	1.392	1.392	1.00
13	2:45	1.00	1.006	1.00	50.00	50.00	1.841	1.841	1.00
14	2:33	1.00	0.933	1.00	50.00	50.00	1.619	1.619	1.00
15	2:35	1.00	0.945	1.00	50.00	50.00	1.479	1.479	1.00
16	2:40	1.00	0.976	1.00	50.00	50.00	1.559	1.559	1.00
17	2:46	1.00	1.012	1.00	50.00	50.00	1.613	1.613	1.00
18	3:10	1.00	1.159	1.00	50.00	50.00	0.814	0.814	1.00
19	3:01	1.00	1.104	1.00	50.00	50.00	1.488	1.488	1.00
20	3:38	1.00	1.329	1.00	50.00	50.00	1.559	1.559	1.00
21	3:25	1.00	1.250	1.00	50.00	50.00	2.192	2.192	1.00
22	3:57	1.00	1.445	1.00	50.00	50.00	1.669	1.669	1.00
23	3:39	1.00	1.335	1.00	50.00	50.00	1.106	1.106	1.00
24	3:30	1.00	1.280	1.00	50.00	50.00	0.607	0.607	1.00
25	3:44	1.00	0.757	1.00	50.00	50.00	0.424	0.424	1.00
26	4:14	1.00	0.858	1.00	50.00	50.00	0.815	0.815	1.00
27	4:19	1.00	0.875	1.00	50.00	50.00	0.213	0.213	1.00
28	4:50	1.00	0.980	1.00	50.00	50.00	0.307	0.307	1.00
29	5:27	1.00	1.105	1.00	50.00	50.00	0.224	0.224	1.00
30	4:50	1.00	0.980	1.00	50.00	50.00	0.479	0.479	1.00
31	5:01	1.00	1.017	1.00	50.00	50.00	0.274	0.274	1.00
32	4:55	1.00	0.997	1.00	50.00	50.00	0.295	0.295	1.00
33	4:58	1.00	1.007	1.00	50.00	50.00	1.104	1.104	1.00
34	5:23	1.00	1.091	1.00	50.00	50.00	0.323	0.323	1.00
35	5:29	1.00	1.111	1.00	50.00	50.00	0.111	0.111	1.00
36	6:49	1.00	1.382	1.00	50.00	50.00	0.282	0.282	1.00
37	6:25	1.00	1.301	1.00	50.00	50.00	0.788	0.788	1.00
38	6:58	1.00	0.807	1.00	50.00	50.00	0.217	0.217	1.00
39	7:18	1.00	0.846	1.00	50.00	50.00	0.303	0.303	1.00
40	7:33	1.00	0.875	1.00	50.00	50.00	0.356	0.356	1.00
41	7:25	1.00	0.859	1.00	50.00	50.00	1.159	1.159	1.00
42	7:55	1.00	0.917	1.00	50.00	50.00	0.390	0.390	1.00
43	8:32	1.00	0.988	1.00	50.00	50.00	1.141	1.141	1.00
44	8:16	1.00	0.958	1.00	50.00	50.00	1.680	1.680	1.00
45	8:52	1.00	1.027	1.00	50.00	50.00	0.330	0.330	1.00
46	8:42	1.00	1.008	1.00	50.00	50.00	0.957	0.957	1.00
47	9:04	1.00	1.050	1.00	50.00	50.00	0.133	0.133	1.00
48	10:01	1.00	1.160	1.00	50.00	50.00	0.069	0.069	1.00
49	9:04	1.00	1.050	1.00	50.00	50.00	1.531	1.531	1.00
50	9:24	1.00	1.089	1.00	50.00	50.00	0.347	0.347	1.00

011802

Quantitation Report File: FS0405C02A

Data: FS0405C02A.TI
04/05/93 11:09:00
Sample: SSTD050
Conds.: ---
Formula: 03/30/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	CS10	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	CS70	2-CHLOROPHENOL-D4 ** SU7 **	
81	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	516	8:36	3	0.996	A BB	11629.	50.000 UG/L	1.24
52	149	609	10:09	3	1.176	A BB	32973.	50.000 UG/L	1.24
53	204	601	10:01	3	1.160	A BB	15922.	50.000 UG/L	1.24
54	166	588	9:48	3	1.135	A BB	35262.	50.000 UG/L	1.24
55	138	613	10:13	3	1.183	A BB	8999.	50.000 UG/L	1.24
56	198	616	10:16	4	0.870	A BB	5724.	50.000 UG/L	1.24
57	169	622	10:22	4	0.879	A BB	26564.	50.000 UG/L	1.24
58	248	662	11:02	4	0.935	A BB	6911.	50.000 UG/L	1.24
59	284	670	11:10	4	0.946	A BB	6414.	50.000 UG/L	1.24
60	266	706	11:46	4	0.997	A BB	3545.	50.000 UG/L	1.24
61	178	710	11:50	4	1.003	A BV	48508.	50.000 UG/L	1.24

000037

011802

011803

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
62	178	716	11:56	4	1.011	A VB	51368.	50.000 UG/L	1.24
63	149	830	13:50	4	1.172	A BB	65198.	50.000 UG/L	1.24
64	202	867	14:27	4	1.225	A BB	48238.	50.000 UG/L	1.24
65	202	893	14:53	5	0.842	A BB	48111.	50.000 UG/L	1.24
66	149	1025	17:05	5	0.966	A BB	24754.	50.000 UG/L	1.24
67	252	1075	17:55	5	1.013	A BB	10218.	50.000 UG/L	1.24
68	228	1059	17:39	5	0.998	A BV	37486.	50.000 UG/L	1.24
69	149	1120	18:40	5	1.056	A BB	36680.	50.000 UG/L	1.24
70	228	1064	17:44	5	1.003	A VB	32085.	50.000 UG/L	1.24
71	149	1200	20:00	6	0.970	A BB	60746.	50.000 UG/L	1.24
72	252	1196	19:56	6	0.967	M XX	35693.	50.000 UG/L	1.24
73	252	1198	19:58	6	0.968	M XX	27443.	50.000 UG/L	1.24
74	252	1229	20:29	6	0.994	A BB	25103.	50.000 UG/L	1.24
75	276	1350	22:30	6	1.091	A BV	17720.	50.000 UG/L	1.24
76	278	1357	22:37	6	1.097	A BB	17567.	50.000 UG/L	1.24
77	276	1372	22:52	6	1.109	A BB	18323.	50.000 UG/L	1.24
78	74	34	0:34	1	0.207	A VB	20963.	50.000 UG/L	1.24
79	184	910	15:10	5	0.858	M XX	9843.	50.000 UG/L	1.24
80	132	154	2:34	1	0.939	A BB	30888.	50.000 UG/L	1.24
81	152	180	3:00	1	1.098	M XX	13938.	50.000 UG/L	1.24
82	167	752	12:32	4	1.062	A BB	49398.	50.000 UG/L	1.24

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	8:36	1.00	0.996	1.00	50.00	50.00	0.386	0.386	1.00
52	10:09	1.00	1.176	1.00	50.00	50.00	1.094	1.094	1.00
53	10:01	1.00	1.160	1.00	50.00	50.00	0.528	0.528	1.00
54	9:48	1.00	1.135	1.00	50.00	50.00	1.170	1.170	1.00
55	10:13	1.00	1.183	1.00	50.00	50.00	0.298	0.298	1.00
56	10:16	1.00	0.870	1.00	50.00	50.00	0.144	0.144	1.00
57	10:22	1.00	0.879	1.00	50.00	50.00	0.670	0.670	1.00
58	11:02	1.00	0.935	1.00	50.00	50.00	0.174	0.174	1.00
59	11:10	1.00	0.946	1.00	50.00	50.00	0.162	0.162	1.00
60	11:46	1.00	0.997	1.00	50.00	50.00	0.089	0.089	1.00
61	11:50	1.00	1.003	1.00	50.00	50.00	1.223	1.223	1.00
62	11:56	1.00	1.011	1.00	50.00	50.00	1.295	1.295	1.00
63	13:50	1.00	1.172	1.00	50.00	50.00	1.644	1.644	1.00
64	14:27	1.00	1.225	1.00	50.00	50.00	1.216	1.216	1.00
65	14:53	1.00	0.842	1.00	50.00	50.00	1.692	1.692	1.00
66	17:05	1.00	0.966	1.00	50.00	50.00	0.870	0.870	1.00
67	17:55	1.00	1.013	1.00	50.00	50.00	0.359	0.359	1.00
68	17:39	1.00	0.998	1.00	50.00	50.00	1.318	1.318	1.00
69	18:40	1.00	1.056	1.00	50.00	50.00	1.290	1.290	1.00
70	17:44	1.00	1.003	1.00	50.00	50.00	1.128	1.128	1.00
71	20:00	1.00	0.970	1.00	50.00	50.00	2.771	2.771	1.00
72	19:56	1.00	0.967	1.00	50.00	50.00	1.628	1.628	1.00
73	19:58	1.00	0.968	1.00	50.00	50.00	1.252	1.252	1.00
74	20:29	1.00	0.994	1.00	50.00	50.00	1.145	1.145	1.00
75	22:30	1.00	1.091	1.00	50.00	50.00	0.808	0.808	1.00
76	22:37	1.00	1.097	1.00	50.00	50.00	0.801	0.801	1.00
77	22:52	1.00	1.109	1.00	50.00	50.00	0.836	0.836	1.00
78	0:34	1.00	0.207	1.00	50.00	50.00	1.331	1.331	1.00
79	15:10	1.00	0.858	1.00	50.00	50.00	0.346	0.346	1.00
80	2:34	1.00	0.939	1.00	50.00	50.00	1.961	1.961	1.00
81	3:00	1.00	1.098	1.00	50.00	50.00	0.885	0.885	1.00
82	12:32	1.00	1.062	1.00	50.00	50.00	1.246	1.246	1.00

011804

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. --- CONTRACT LAB: KEYSTONE
CONTRACT NO. --- INSTRUMENT IDENTIFIER: 4510
CALIBRATION DATE: 03/30/93
STANDARD FILE: FS0406C02A
DATE: 04/06/93 TIME: 9:49
MAXIMUM % D FOR CCC IS 20

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.911	1.806	-5.472
C325	BIS(2-CHLOROETHYL)ETHE	1.904	1.666	-12.476
C330	2-CHLOROPHENOL	1.458	1.452	-0.407
C335	1,3-DICHLOROBENZENE	1.510	1.495	-0.959
C340	1,4-DICHLOROBENZENE	1.602	1.579	-1.430
C345	BENZYL ALCOHOL	0.983	0.719	-26.864
C350	1,2-DICHLOROBENZENE	1.495	1.455	-2.719
C355	2-METHYLPHENOL	1.587	1.536	-3.210
C357	2,2'-OXYBIS(1-CHLOROPR	1.913	2.145	12.148
C365	4-METHYLPHENOL	1.690	1.596	-5.553
C370	N-NITROSODIPROPYLAMINE	1.146	1.128	-1.579
C375	HEXACHLOROETHANE	0.629	0.603	-4.211
C410	NITROBENZENE	0.344	0.414	20.009
C415	ISOPHORONE	0.742	0.801	7.995
C420	2-NITROPHENOL	0.217	0.208	-4.397
C425	2,4-DIMETHYLPHENOL	0.309	0.312	0.701
C430	BENZOIC ACID	0.227	0.249	9.797
C435	BIS(2-CHLOROETHOXY)MET	0.537	0.475	-11.605
C440	2,4-DICHLOROPHENOL	0.280	0.279	-0.460
C445	1,2,4-TRICHLOROBENZENE	0.279	0.300	7.556
C450	NAPHTHALENE	1.067	1.081	1.248
C455	4-CHLOROANILINE	0.391	0.372	-5.055
C460	HEXACHLOROBUTADIENE	0.106	0.120	12.426
C465	P-CHLORO-M-CRESOL	0.301	0.290	-3.829
C470	2-METHYLNAPHTHALENE	0.805	0.789	-1.876
C510	HEXACHLOROCYCLOPENTADI	0.234	0.228	-2.379
C515	2,4,6-TRICHLOROPHENOL	0.304	0.309	1.886
C520	2,4,5-TRICHLOROPHENOL	0.331	0.359	8.332
C525	2-CHLORONAPHTHALENE	1.153	1.162	0.750
C530	2-NITROANILINE	0.330	0.401	21.813
C535	DIMETHYL PHTHALATE	1.226	1.152	-6.041
C540	ACENAPHTHYLENE	1.737	1.735	-0.148
C545	3-NITROANILINE	0.338	0.326	-3.389
C550	ACENAPHTHENE	0.989	0.955	-3.427
C555	2,4-DINITROPHENOL	0.169	0.159	-6.150
C560	4-NITROPHENOL	0.099	0.092	-7.269
C565	DIBENZOFURAN	1.535	1.587	3.395
C570	2,4-DINITROTOLUENE	0.358	0.357	-0.259
C573	2,6-DINITROTOLUENE	0.358	0.399	11.394
C580	DIETHYL PHTHALATE	1.162	1.126	-3.134
C585	4-CHLOROPHENYL PHENYL	0.556	0.554	-0.460
C590	FLUORENE	1.195	1.202	0.649
C595	4-NITROANILINE	0.326	0.317	-2.893
C610	4,6-DINITRO-2-METHYLPH	0.155	0.148	-4.521
C615	N-NITROSODIPHENYLAMINE	0.709	0.671	-5.310
C625	4-BROMOPHENYL PHENYL E	0.183	0.173	-5.456
C630	HEXACHLOROBENZENE	0.156	0.163	4.656
C635	PENTACHLOROPHENOL	0.110	0.093	-15.303
C640	PHENANTHRENE	1.200	1.186	-1.167
C645	ANTHRACENE	1.222	1.261	3.206
C650	DI-N-BUTYL PHTHALATE	1.554	1.654	6.441
C655	FLUORANTHENE	1.084	1.223	12.758

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C715	PYRENE	1.694	1.583	-6.529
C720	BUTYL BENZYL PHTHALATE	0.920	0.851	-7.464
C725	3,3'-DICHLOROBENZIDINE	0.383	0.371	-3.134
C730	BENZO(A)ANTHRACENE	1.386	1.340	-3.304
C745	BIS(2-ETHYLHEXYL)PHTHA	1.272	1.327	4.305
C740	CHRYSENE	1.113	1.078	-3.187
C760	DI-N-OCTYL PHTHALATE	2.485	2.655	6.849
C765	BENZO(B)FLUORANTHENE	1.563	1.588	1.599
C770	BENZO(K)FLUORANTHENE	1.250	1.070	-14.421
C775	BENZO(A)PYRENE	1.124	1.120	-0.344
C780	INDENO(1,2,3-CD)PYRENE	0.790	0.775	-1.913
C785	DIBENZO(A,H)ANTHRACENE	0.808	0.756	-6.436
C790	BENZO(GHI)PERYLENE	0.831	0.845	1.724
C310	N-NITROSODIMETHYLAMINE	1.075	1.995	85.625
C620	1,2-DIPHENYL-HYDRAZINE	1.095	1.082	-1.185
CS70	2-CHLOROPHENOL-D4 ** S	1.828	1.962	7.318
CS75	1,2-DICHLOROBENZENE-D4	0.866	0.892	3.059
C647	CARBAZOLE	1.197	1.224	2.233
CS50	2-FLUOROPHENOL ** SU1	1.588	1.645	3.562
CS45	PHENOL-D5 ** SU2 **	1.977	1.794	-9.270
CS55	2,4,6-TRIBROMOPHENOL	0.097	0.095	-2.210
CS20	NITROBENZENE-D5 ** SU3	0.342	0.406	18.624
CS25	2-FLUOROBIPHENYL ** SU	1.162	1.249	7.482
CS30	TERPHENYL-D14 ** SU6	1.230	1.347	9.459
BENZENETHIOL				
METHYL CHRYSENE				
QUINOLINE				
C720	1-METHYLNAPHTHALENE			
7,12-DIMETHYLBENZ(A)ANTHRACE				
DIBENZ(A,H)ACRIDINE				
3+4-METHYLPHENOL				
INDENE				
A950	PYRIDINE			
A953	2,6-DICHLOROPHENOL			
A987	2,5-DICHLOROPHENOL			
A988	3,4-DICHLOROPHENOL			
A989	2,3-DICHLOROPHENOL			
A990	3,5-DICHLOROPHENOL			
A991	1,3,5-TRICHLOROBENZENE			
A992	1,2,3-TRICHLOROBENZENE			

CHESTER DC # ----17

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4510

LAB ID. FS0406C02A

CLIENT CHESTER ANALYST JDD

DATE INJECTED 04/06/93 9:49:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	165	40	17790	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	297	40	64056	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	518	40	34778	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	708	40	48985	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1061	40	38602	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1237	40	33897	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	89	50	36574	0.539	1.645
CS45	PHENOL-D5 ** SU2 **	99	165	50	39894	1.000	1.794
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	626	50	4119	1.208	0.095
CS20	NITROBENZENE-D5 ** SU3 **	82	223	50	32477	0.751	0.406
CS25	2-FLUOROBIPHENYL ** SU4 **	172	444	50	54300	0.857	1.249
CS30	TERPHENYL-D14 ** SU6 **	244	938	50	64985	0.884	1.347
C315	PHENOL	94	166	50	40161	1.006	1.806
C325	BIS(2-CHLOROETHYL)ETHER	93	154	50	37058	0.933	1.666
C330	2-CHLOROPHENOL	128	157	50	32292	0.952	1.452
C335	1,3-DICHLOROBENZENE	146	161	50	33254	0.976	1.495
C340	1,4-DICHLOROBENZENE	146	167	50	35121	1.012	1.579
C345	BENZYL ALCOHOL	108	192	50	15988	1.164	0.719
C350	1,2-DICHLOROBENZENE	146	182	50	32349	1.103	1.455
C355	2-METHYLPHENOL	108	219	50	34166	1.327	1.536
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	206	50	47701	1.248	2.145
C365	4-METHYLPHENOL	108	238	50	35501	1.442	1.596
C370	N-NITROSODIPROPYLAMINE	70	220	50	25086	1.333	1.128
C375	HEXACHLOROETHANE	117	211	50	13400	1.279	0.603
C410	NITROBENZENE	77	225	50	33109	0.758	0.414
C415	ISOPHORONE	82	255	50	64149	0.859	0.801
C420	2-NITROPHENOL	139	260	50	16630	0.875	0.208
C425	2,4-DIMETHYLPHENOL	107	291	50	24955	0.980	0.312
C430	BENZOIC ACID	122	328	50	19956	1.104	0.249
C435	BIS(2-CHLOROETHOXY)METHANE	93	291	50	38015	0.980	0.475
C440	2,4-DICHLOROPHENOL	162	301	50	22309	1.013	0.279
C445	1,2,4-TRICHLOROBENZENE	180	295	50	24000	0.993	0.300
C450	NAPHTHALENE	128	299	50	86517	1.007	1.081
C455	4-CHLOROANILINE	127	323	50	29754	1.088	0.372
C460	HEXACHLOROBUTADIENE	225	329	50	9589	1.108	0.120
C465	P-CHLORO-M-CRESOL	107	409	50	23196	1.377	0.290
C470	2-METHYLNAPHTHALENE	142	386	50	63214	1.300	0.789
C510	HEXACHLOROCYCLOPENTADIENE	237	419	50	9920	0.809	0.228
C515	2,4,6-TRICHLOROPHENOL	196	438	50	13450	0.846	0.309
C520	2,4,5-TRICHLOROPHENOL	196	453	50	15606	0.875	0.359
C525	2-CHLORONAPHTHALENE	162	445	50	50517	0.859	1.162
C530	2-NITROANILINE	65	476	50	17454	0.919	0.401
C535	DIMETHYL PHTHALATE	163	512	50	50079	0.988	1.152
C540	ACENAPHTHYLENE	152	497	50	75412	0.959	1.735
C545	3-NITROANILINE	138	532	50	14189	1.027	0.326
C550	ACENAPHTHENE	153	522	50	41530	1.008	0.955

SV STANDARD REPORT PAGE 2

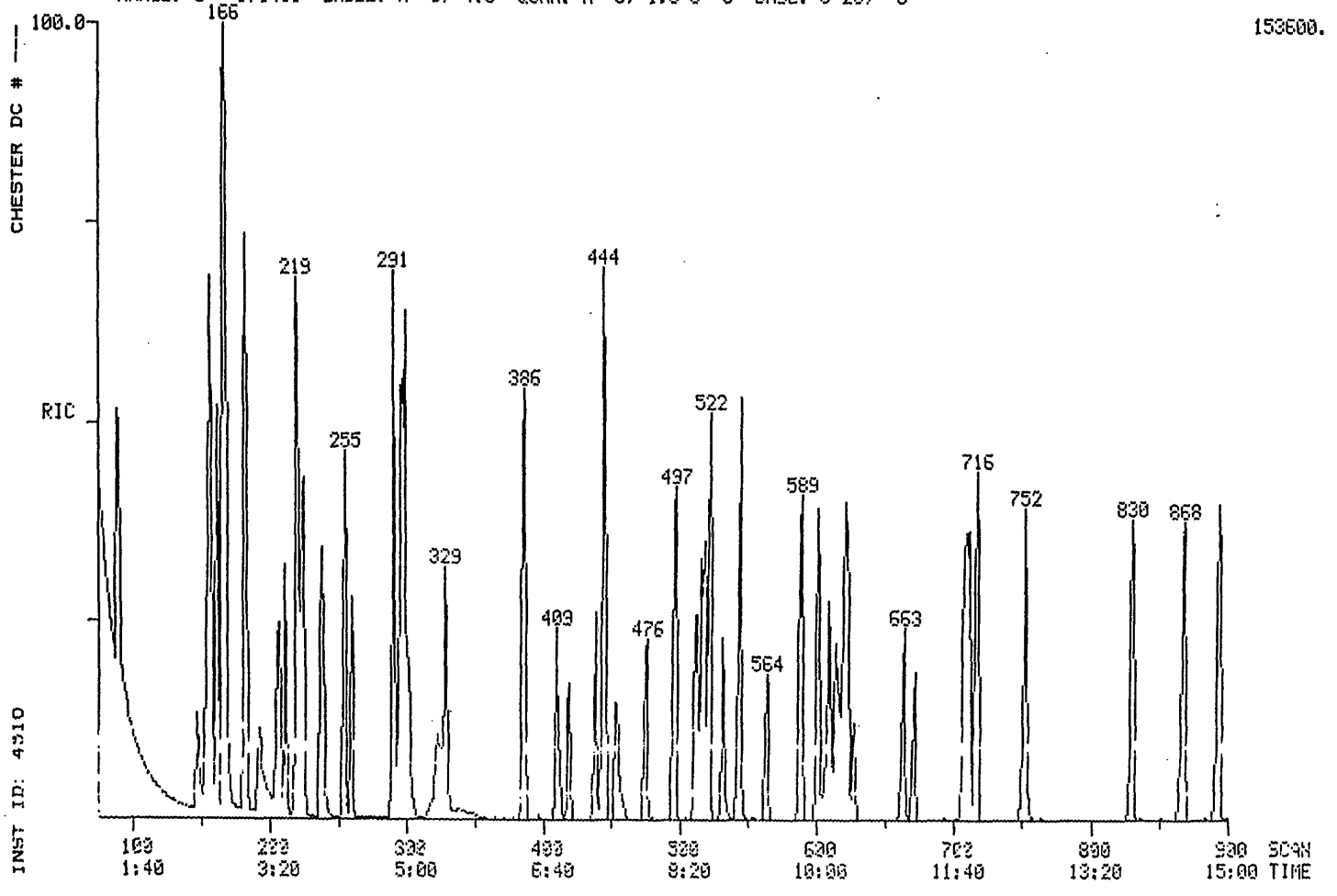
DATAFILE FS0406C02A

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	184	544	50	6911	1.050	0.159
C560	4-NITROPHENOL	109	601	50	3982	1.160	0.092
C565	DIBENZOFURAN	168	544	50	68994	1.050	1.587
C570	2,4-DINITROTOLUENE	165	564	50	15532	1.089	0.357
C543	2,6-DINITROTOLUENE	165	516	50	17327	0.996	0.399
C580	DIETHYL PHTHALATE	149	609	50	48938	1.176	1.126
C585	4-CHLOROPHENYL PHENYL ETHER	204	601	50	24067	1.160	0.554
C590	FLUORENE	166	589	50	52272	1.137	1.202
C595	4-NITROANILINE	138	614	50	13779	1.185	0.317
C610	4,6-DINITRO-2-METHYLPHENOL	198	616	50	9059	0.870	0.148
C615	N-NITROSODIPHENYLAMINE	169	622	50	41111	0.879	0.671
C625	4-BROMOPHENYL PHENYL ETHER	248	663	50	10572	0.936	0.173
C630	HEXACHLOROBENZENE	284	671	50	9986	0.948	0.163
C635	PENTACHLOROPHENOL	266	706	50	5678	0.997	0.093
C640	PHENANTHRENE	178	711	50	72592	1.004	1.186
C645	ANTHRACENE	178	716	50	77210	1.011	1.261
C650	DI-N-BUTYL PHTHALATE	149	830	50	101296	1.172	1.654
C655	FLUORANTHENE	202	868	50	74856	1.226	1.223
C715	PYRENE	202	893	50	76395	0.842	1.583
C720	BUTYL BENZYL PHTHALATE	149	1025	50	41067	0.966	0.851
C725	3,3'-DICHLOROBENZIDINE	252	1075	50	17919	1.013	0.371
C730	BENZO(A)ANTHRACENE	228	1059	50	64651	0.998	1.340
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1120	50	64017	1.056	1.327
C740	CHRYSENE	228	1064	50	52015	1.003	1.078
C760	DI-N-OCTYL PHTHALATE	149	1200	50	112499	0.970	2.655
C765	BENZO(B)FLUORANTHENE	252	1196	50	67282	0.967	1.588
C770	BENZO(K)FLUORANTHENE	252	1198	50	45322	0.968	1.070
C775	BENZO(A)PYRENE	252	1229	50	47468	0.994	1.120
C780	INDENO(1,2,3-CD)PYRENE	276	1350	50	32829	1.091	0.775
C785	DIBENZO(A,H)ANTHRACENE	278	1356	50	32050	1.096	0.756
C790	BENZO(GHI)PERYLENE	276	1372	50	35801	1.109	0.845
C620	1,2-DIPHENYL-HYDRAZINE						

-17

RIC
04/06/93 9:49:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0406C02A #763 SCANS 75 TO 900
CALI: FS0406C02A #3



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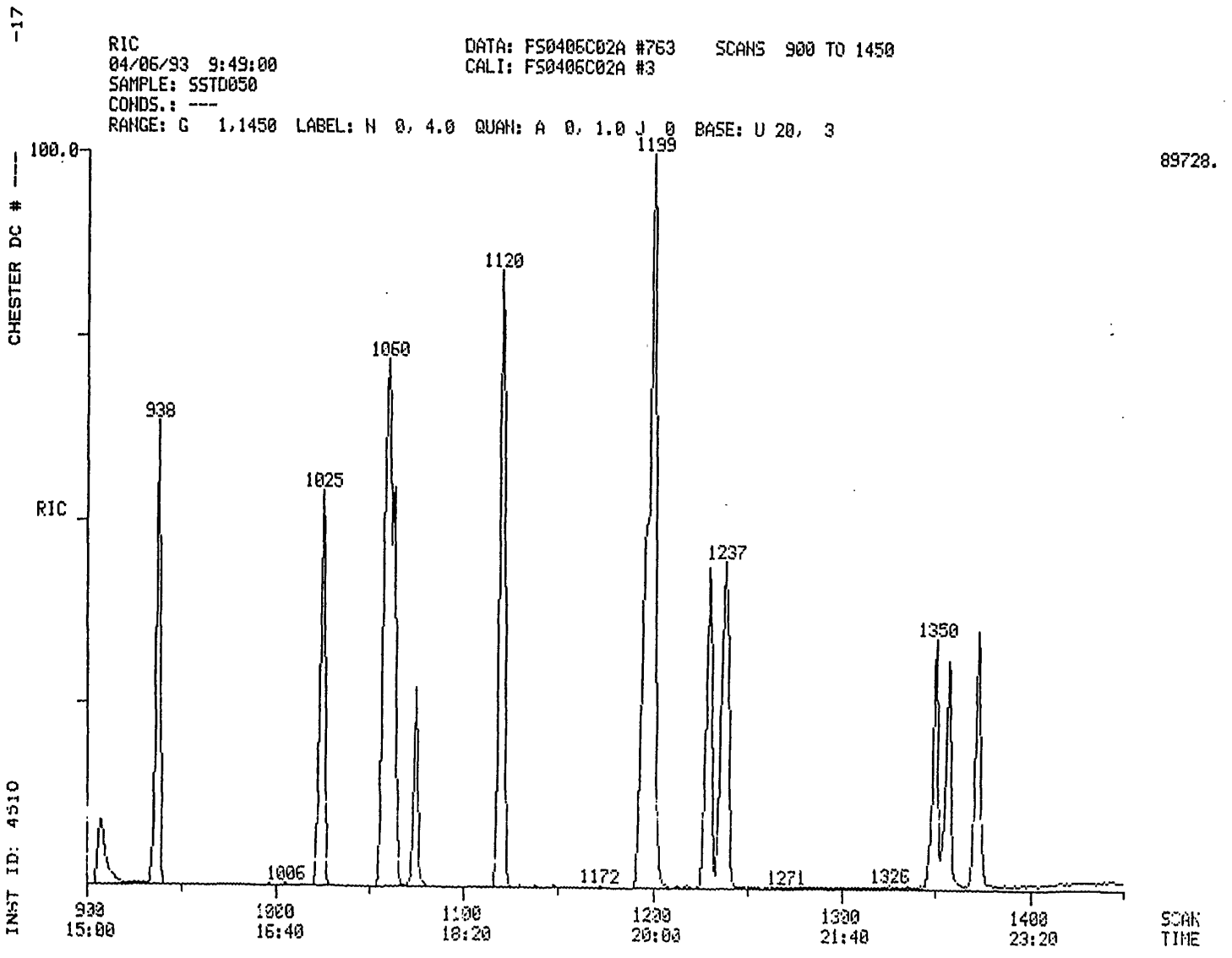
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RIC
04/06/93 9:49:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: FS0406C02A #763 SCANS 900 TO 1450
CALI: FS0406C02A #3
CHESTER DC # ---
INST ID: 4510
100.0
RIC
89728.
938
1025
1060
1120
1199
1237
1350
1006
1172
1271
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930
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SCAN
TIME

011809

011810

Quantitation Report File: FS0406C02A

Data: FS0406C02A.TI
04/06/93 7:49:00
Sample: SSTD050
Conds.: ---
Formula: 03/30/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL ** SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

011811

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	165	2:45	1	1.000	A BB	17790.	40.000 UG/L	0.99
2	136	297	4:57	2	1.000	A BB	64056.	40.000 UG/L	0.99
3	164	518	8:38	3	1.000	A VB	34778.	40.000 UG/L	0.99
4	188	708	11:48	4	1.000	A BV	48985.	40.000 UG/L	0.99
5	240	1061	17:41	5	1.000	A BB	38602.	40.000 UG/L	0.99
6	264	1237	20:37	6	1.000	A BB	33897.	40.000 UG/L	0.99
7	112	89	1:29	1	0.539	A BB	36574.	50.000 UG/L	1.24
8	99	165	2:45	1	1.000	A BB	39894.	50.000 UG/L	1.24
9	330	626	10:26	3	1.208	A BB	4119.	50.000 UG/L	1.24
10	82	223	3:43	2	0.751	A BB	32477.	50.000 UG/L	1.24
11	172	444	7:24	3	0.857	A BB	54300.	50.000 UG/L	1.24
12	244	938	15:38	5	0.884	A BB	64985.	50.000 UG/L	1.24
13	94	166	2:46	1	1.006	A BB	40161.	50.000 UG/L	1.24
14	93	154	2:34	1	0.933	A VB	37058.	50.000 UG/L	1.24
15	128	157	2:37	1	0.952	A BB	32292.	50.000 UG/L	1.24
16	146	161	2:41	1	0.976	A BB	33254.	50.000 UG/L	1.24
17	146	167	2:47	1	1.012	A BB	35121.	50.000 UG/L	1.24
18	108	192	3:12	1	1.164	A BB	15988.	50.000 UG/L	1.24
19	146	182	3:02	1	1.103	A BB	32349.	50.000 UG/L	1.24
20	108	219	3:39	1	1.327	A BB	34166.	50.000 UG/L	1.24
21	45	206	3:26	1	1.248	A BB	47701.	50.000 UG/L	1.24
22	108	238	3:58	1	1.442	A BB	35501.	50.000 UG/L	1.24
23	70	220	3:40	1	1.333	M XX	25086.	50.000 UG/L	1.24
24	117	211	3:31	1	1.279	A BB	13400.	50.000 UG/L	1.24
25	77	225	3:45	2	0.758	A VB	33109.	50.000 UG/L	1.24
26	82	255	4:15	2	0.859	A BB	64149.	50.000 UG/L	1.24
27	139	260	4:20	2	0.875	A BB	16630.	50.000 UG/L	1.24
28	107	291	4:51	2	0.980	A BB	24955.	50.000 UG/L	1.24
29	122	328	5:28	2	1.104	A BB	19956.	50.000 UG/L	1.24
30	93	291	4:51	2	0.980	A BB	38015.	50.000 UG/L	1.24
31	162	301	5:01	2	1.013	A BB	22309.	50.000 UG/L	1.24
32	180	295	4:55	2	0.993	A BB	24000.	50.000 UG/L	1.24
33	128	299	4:59	2	1.007	A BB	86517.	50.000 UG/L	1.24
34	127	323	5:23	2	1.088	M XX	29754.	50.000 UG/L	1.24
35	225	329	5:29	2	1.108	A BB	9589.	50.000 UG/L	1.24
36	107	409	6:49	2	1.377	A BB	23196.	50.000 UG/L	1.24
37	142	386	6:26	2	1.300	A BB	63214.	50.000 UG/L	1.24
38	237	419	6:59	3	0.809	A BB	9920.	50.000 UG/L	1.24
39	196	438	7:18	3	0.846	A BB	13450.	50.000 UG/L	1.24
40	196	453	7:33	3	0.875	A BB	15606.	50.000 UG/L	1.24
41	162	445	7:25	3	0.859	A BB	50517.	50.000 UG/L	1.24
42	65	476	7:56	3	0.919	A BB	17454.	50.000 UG/L	1.24
43	163	512	8:32	3	0.988	A BV	50079.	50.000 UG/L	1.24
44	152	497	8:17	3	0.959	A BB	75412.	50.000 UG/L	1.24
45	138	532	8:52	3	1.027	A BB	14189.	50.000 UG/L	1.24
46	153	522	8:42	3	1.008	A BB	41530.	50.000 UG/L	1.24
47	184	544	9:04	3	1.050	A BB	6911.	50.000 UG/L	1.24
48	109	601	10:01	3	1.160	A BV	3982.	50.000 UG/L	1.24
49	168	544	9:04	3	1.050	A BB	68994.	50.000 UG/L	1.24
50	165	564	9:24	3	1.089	A BB	15532.	50.000 UG/L	1.24

000015

011812

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	2:45	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:57	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	8:38	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	11:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	20:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:29	1.00	0.539	1.00	50.00	50.00	1.645	1.645	1.00
8	2:45	1.00	1.000	1.00	50.00	50.00	1.794	1.794	1.00
9	10:26	1.00	1.208	1.00	50.00	50.00	0.095	0.095	1.00
10	3:43	1.00	0.751	1.00	50.00	50.00	0.406	0.406	1.00
11	7:24	1.00	0.857	1.00	50.00	50.00	1.249	1.249	1.00
12	15:38	1.00	0.884	1.00	50.00	50.00	1.347	1.347	1.00
13	2:46	1.00	1.006	1.00	50.00	50.00	1.806	1.806	1.00
14	2:34	1.00	0.933	1.00	50.00	50.00	1.666	1.666	1.00
15	2:37	1.00	0.952	1.00	50.00	50.00	1.452	1.452	1.00
16	3:41	1.00	0.976	1.00	50.00	50.00	1.495	1.495	1.00
17	2:47	1.00	1.012	1.00	50.00	50.00	1.579	1.579	1.00
18	3:12	1.00	1.164	1.00	50.00	50.00	0.719	0.719	1.00
19	3:02	1.00	1.103	1.00	50.00	50.00	1.455	1.455	1.00
20	3:39	1.00	1.327	1.00	50.00	50.00	1.536	1.536	1.00
21	3:26	1.00	1.248	1.00	50.00	50.00	2.145	2.145	1.00
22	3:58	1.00	1.442	1.00	50.00	50.00	1.596	1.596	1.00
23	3:40	1.00	1.333	1.00	50.00	50.00	1.128	1.128	1.00
24	3:31	1.00	1.279	1.00	50.00	50.00	0.603	0.603	1.00
25	3:45	1.00	0.758	1.00	50.00	50.00	0.414	0.414	1.00
26	4:15	1.00	0.859	1.00	50.00	50.00	0.801	0.801	1.00
27	4:20	1.00	0.875	1.00	50.00	50.00	0.208	0.208	1.00
28	4:51	1.00	0.980	1.00	50.00	50.00	0.312	0.312	1.00
29	5:28	1.00	1.104	1.00	50.00	50.00	0.249	0.249	1.00
30	4:51	1.00	0.980	1.00	50.00	50.00	0.475	0.475	1.00
31	5:01	1.00	1.013	1.00	50.00	50.00	0.279	0.279	1.00
32	4:55	1.00	0.993	1.00	50.00	50.00	0.300	0.300	1.00
33	4:59	1.00	1.007	1.00	50.00	50.00	1.081	1.081	1.00
34	5:23	1.00	1.088	1.00	50.00	50.00	0.372	0.372	1.00
35	5:29	1.00	1.108	1.00	50.00	50.00	0.120	0.120	1.00
36	6:49	1.00	1.377	1.00	50.00	50.00	0.290	0.290	1.00
37	6:26	1.00	1.300	1.00	50.00	50.00	0.789	0.789	1.00
38	6:59	1.00	0.809	1.00	50.00	50.00	0.228	0.228	1.00
39	7:18	1.00	0.846	1.00	50.00	50.00	0.309	0.309	1.00
40	7:33	1.00	0.875	1.00	50.00	50.00	0.359	0.359	1.00
41	7:25	1.00	0.859	1.00	50.00	50.00	1.162	1.162	1.00
42	7:56	1.00	0.919	1.00	50.00	50.00	0.401	0.401	1.00
43	8:32	1.00	0.988	1.00	50.00	50.00	1.152	1.152	1.00
44	8:17	1.00	0.959	1.00	50.00	50.00	1.735	1.735	1.00
45	8:52	1.00	1.027	1.00	50.00	50.00	0.326	0.326	1.00
46	8:42	1.00	1.008	1.00	50.00	50.00	0.955	0.955	1.00
47	9:04	1.00	1.050	1.00	50.00	50.00	0.159	0.159	1.00
48	10:01	1.00	1.160	1.00	50.00	50.00	0.092	0.092	1.00
49	9:04	1.00	1.050	1.00	50.00	50.00	1.587	1.587	1.00
50	9:24	1.00	1.089	1.00	50.00	50.00	0.357	0.357	1.00

011813

Quantitation Report File: FS0406C02A

Data: FS0406C02A.TI
04/06/93 9:49:00
Sample: SSTD050
Conds.: ---
Formula: 03/30/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	CS70	2-CHLOROPHENOL-D4 ** SU7 **	
81	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	516	8:36	3	0.996	A BB	17327.	50.000 UG/L	1.24
52	149	609	10:09	3	1.176	A BB	48938.	50.000 UG/L	1.24
53	204	601	10:01	3	1.160	A BB	24067.	50.000 UG/L	1.24
54	166	589	9:49	3	1.137	A BB	52272.	50.000 UG/L	1.24
55	138	614	10:14	3	1.185	A BB	13779.	50.000 UG/L	1.24
56	198	616	10:16	4	0.870	A BB	9059.	50.000 UG/L	1.24
57	169	622	10:22	4	0.879	A BB	41111.	50.000 UG/L	1.24
58	248	663	11:03	4	0.936	A BB	10572.	50.000 UG/L	1.24
59	284	671	11:11	4	0.948	A BB	9986.	50.000 UG/L	1.24
60	266	706	11:46	4	0.997	A BB	5678.	50.000 UG/L	1.24
61	178	711	11:51	4	1.004	A BV	72592.	50.000 UG/L	1.24

011813

011814

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
62	178	716	11:56	4	1.011	A VB	77210.	50.000 UG/L	1.24
63	149	830	13:50	4	1.172	A BB	101296.	50.000 UG/L	1.24
64	202	868	14:28	4	1.226	A BB	74856.	50.000 UG/L	1.24
65	202	893	14:53	5	0.842	A BB	76395.	50.000 UG/L	1.24
66	149	1025	17:05	5	0.966	A BB	41067.	50.000 UG/L	1.24
67	202	1075	17:55	5	1.013	A BB	17919.	50.000 UG/L	1.24
68	228	1059	17:39	5	0.998	A BV	64651.	50.000 UG/L	1.24
67	149	1120	18:40	5	1.056	A BB	64017.	50.000 UG/L	1.24
70	228	1064	17:44	5	1.003	A VB	52015.	50.000 UG/L	1.24
71	149	1200	20:00	6	0.970	A BB	112499.	50.000 UG/L	1.24
72	202	1196	19:56	6	0.967	M XX	67282.	50.000 UG/L	1.24
73	202	1198	19:58	6	0.968	M XX	45322.	50.000 UG/L	1.24
74	202	1229	20:29	6	0.994	A BB	47468.	50.000 UG/L	1.24
75	276	1350	22:30	6	1.091	A BV	32829.	50.000 UG/L	1.24
76	278	1356	22:36	6	1.096	A VB	32050.	50.000 UG/L	1.24
77	276	1372	22:52	6	1.109	A BB	35801.	50.000 UG/L	1.24
78	74	35	0:35	1	0.212	A VB	44364.	50.000 UG/L	1.24
79	184	907	15:07	5	0.855	A BB	22594.	50.000 UG/L	1.24
80	132	155	2:35	1	0.939	A BB	43623.	50.000 UG/L	1.24
81	132	181	3:01	1	1.097	M XX	19844.	50.000 UG/L	1.24
82	167	752	12:32	4	1.062	A BB	74943.	50.000 UG/L	1.24

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	8:36	1.00	0.996	1.00	50.00	50.00	0.399	0.399	1.00
52	10:09	1.00	1.176	1.00	50.00	50.00	1.126	1.126	1.00
53	10:01	1.00	1.160	1.00	50.00	50.00	0.554	0.554	1.00
54	9:49	1.00	1.137	1.00	50.00	50.00	1.202	1.202	1.00
55	10:14	1.00	1.185	1.00	50.00	50.00	0.317	0.317	1.00
56	10:16	1.00	0.870	1.00	50.00	50.00	0.148	0.148	1.00
57	10:22	1.00	0.879	1.00	50.00	50.00	0.671	0.671	1.00
58	11:03	1.00	0.936	1.00	50.00	50.00	0.173	0.173	1.00
59	11:11	1.00	0.948	1.00	50.00	50.00	0.163	0.163	1.00
60	11:46	1.00	0.997	1.00	50.00	50.00	0.093	0.093	1.00
61	11:51	1.00	1.004	1.00	50.00	50.00	1.186	1.186	1.00
62	11:56	1.00	1.011	1.00	50.00	50.00	1.261	1.261	1.00
63	13:50	1.00	1.172	1.00	50.00	50.00	1.654	1.654	1.00
64	14:28	1.00	1.226	1.00	50.00	50.00	1.223	1.223	1.00
65	14:53	1.00	0.842	1.00	50.00	50.00	1.583	1.583	1.00
66	17:05	1.00	0.966	1.00	50.00	50.00	0.851	0.851	1.00
67	17:55	1.00	1.013	1.00	50.00	50.00	0.371	0.371	1.00
68	17:39	1.00	0.998	1.00	50.00	50.00	1.340	1.340	1.00
69	18:40	1.00	1.056	1.00	50.00	50.00	1.327	1.327	1.00
70	17:44	1.00	1.003	1.00	50.00	50.00	1.078	1.078	1.00
71	20:00	1.00	0.970	1.00	50.00	50.00	2.655	2.655	1.00
72	19:56	1.00	0.967	1.00	50.00	50.00	1.588	1.588	1.00
73	19:58	1.00	0.968	1.00	50.00	50.00	1.070	1.070	1.00
74	20:29	1.00	0.994	1.00	50.00	50.00	1.120	1.120	1.00
75	22:30	1.00	1.091	1.00	50.00	50.00	0.775	0.775	1.00
76	22:36	1.00	1.096	1.00	50.00	50.00	0.756	0.756	1.00
77	22:52	1.00	1.109	1.00	50.00	50.00	0.845	0.845	1.00
78	0:35	1.00	0.212	1.00	50.00	50.00	1.995	1.995	1.00
79	15:07	1.00	0.855	1.00	50.00	50.00	0.468	0.468	1.00
80	2:35	1.00	0.939	1.00	50.00	50.00	1.962	1.962	1.00
81	3:01	1.00	1.097	1.00	50.00	50.00	0.892	0.892	1.00
82	12:32	1.00	1.062	1.00	50.00	50.00	1.224	1.224	1.00

011815

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SBLK

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/05/93

DATAFILE: 9B04003C01

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SBLK

ORGANICS ANALYSIS DATA SHEET -

LABORATORY NAME: CHESTER LABNET
CASE NO.: ---
LAB SAMPLE ID NO.: 93---
QC REPORT NO.: 03/30/93
SAMPLE MATRIX: SOIL
CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATAFILE: 9B04003C01
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/05/93

	COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C450	NAPHTHALENE	330 U	
C540	ACENAPHTHYLENE	330 U	
C550	ACENAPHTHENE	330 U	
C590	FLUORENE	330 U	
C640	PHENANTHRENE	330 U	
C645	ANTHRACENE	330 U	
C655	FLUORANTHENE	330 U	
C715	PYRENE	330 U	
C730	BENZO(A)ANTHRACENE	330 U	
C740	CHRYSENE	330 U	
C765	BENZO(B)FLUORANTHENE	330 U	
C770	BENZO(K)FLUORANTHENE	330 U	
C775	BENZO(A)PYRENE	330 U	
C780	INDENO(1,2,3-CD)PYRENE	330 U	
C785	DIBENZO(A,H)ANTHRACENE	330 U	
C790	BENZO(GHI)PERYLENE	330 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

-14

RIC
04/05/93 17:03:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

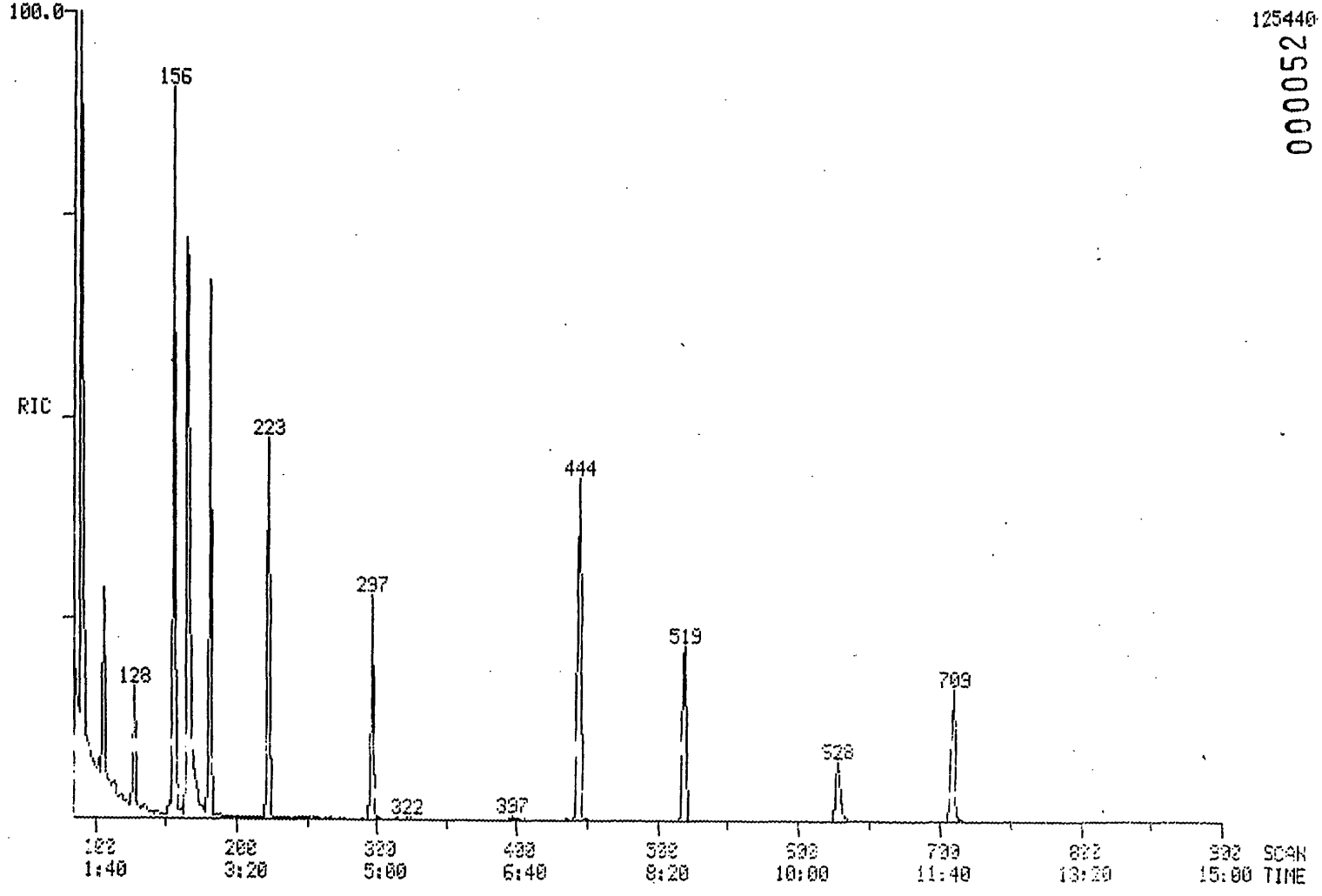
DATA: 9B04003C01 #1 SCANS 85 TO 900
CALI: 9B04003C01 #3

CHESTER DC # ---

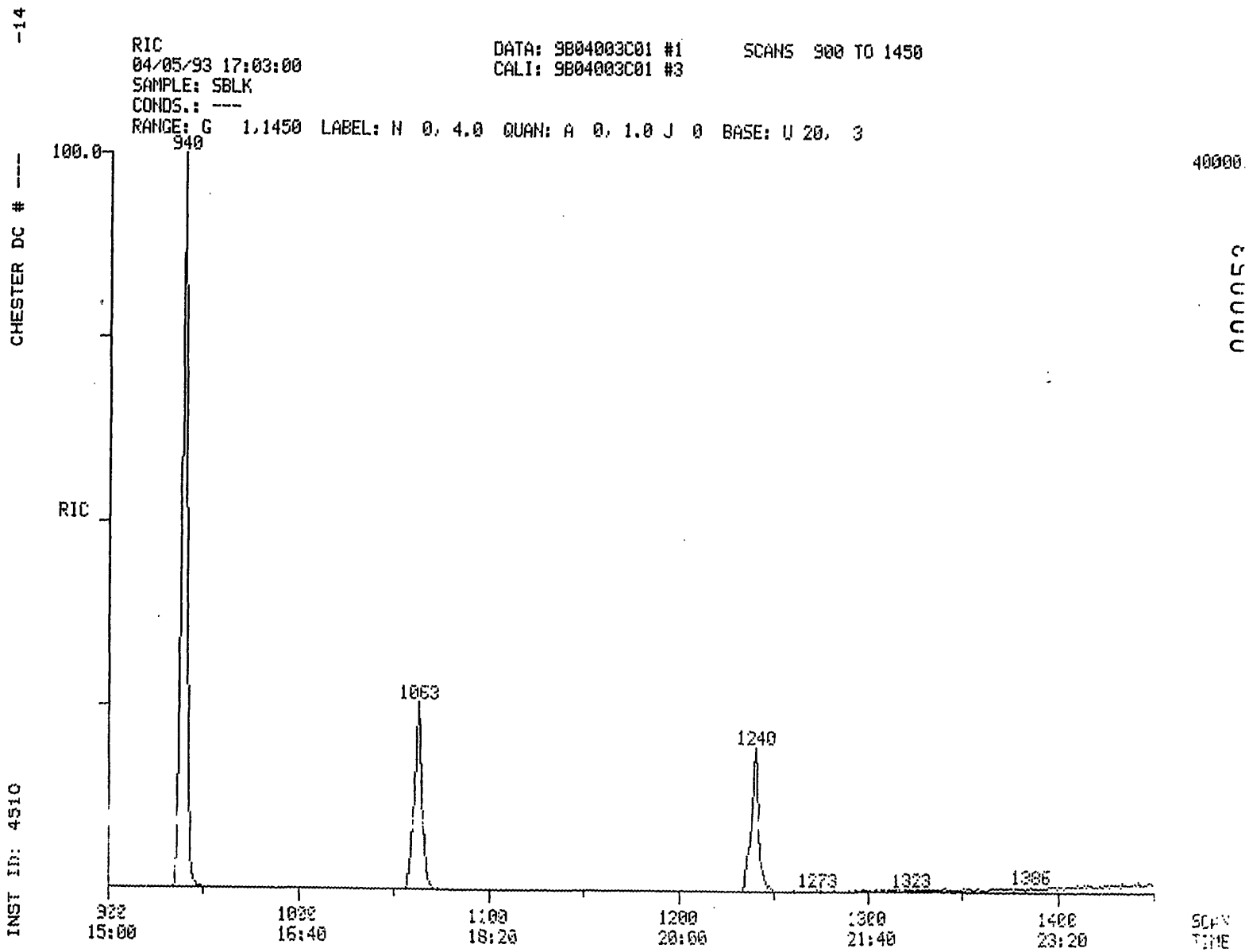
INST ID: 4510

125440

000052



011817


-14
RIC
04/05/93 17:03:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 9B04003C01 #1
CALI: 9B04003C01 #3
SCANS 900 TO 1450
CHESTER DC # ---
INST ID: 4510
100.0
RIC
40000.
940
1063
1240
1273
1323
1386
900
15:00
1000
16:40
1100
18:20
1200
20:00
1300
21:40
1400
23:20
SCAN
TIME

011818

011819

CHESTER DC # ----14

SEMIVOLATILE SOIL REPORT

SAMPLE ID. SBLK

FILENAME 9B04003C01 INST ID. 4510

CLIENT CHESTER ANALYST JDD

DATE INJECTED 04/05/93 17:03:00 VERIFIED BY JDD

CALIB STD DATE 03/30/93 CORR. FACTOR 33.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
166	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	152	660 UG/KG	1.000	1219
297	CI40	NAPHTHALENE-D8 ** IS2 **	136	660 UG/KG	1.000	3901
518	CI50	ACENAPHTHENE-D10 ** IS3 **	164	660 UG/KG	1.000	2169
709	CI60	PHENANTHRENE-D10 ** IS4 **	188	660 UG/KG	1.000	3261
1063	CI70	CHRYSENE-D12 ** IS5 **	240	660 UG/KG	1.000	2242
1240	CI75	PERYLENE-D12 ** IS6 **	264	660 UG/KG	1.000	1690
90	CS50	2-FLUOROPHENOL ** SU1 **	112	91 %	0.542	7050
165	CS45	PHENOL-D5 ** SU2 **	99	72 %	0.994	7327
628	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	330	69 %	1.212	508
136	CS70	2-CHLOROPHENOL-D4 ** SU7 **	132	70 %	0.940	6249
182	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	152	86 %	1.096	2315
223	CS20	NITROBENZENE-D5 ** SU3 **	82	87 %	0.751	3393
444	CS25	2-FLUOROBIPHENYL ** SU4 **	172	83 %	0.857	5633
940	CS30	TERPHENYL-D14 ** SU6 **	244	82 %	0.884	6363

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	04/05/93	Sens Time:	10:20:00
Lab ID:	FS0405C01	Cali Date:	03/30/93	Analyst:	JDD

Data release authorized by: Juanita D Daummond

M/E	Ion Abundance Criteria	Spec # 222	
51	30 to 60% of mass 198	40.16	
68	less than 2% of mass 69	0.45	(1.23) 1
69	mass 69 relative abundance	36.86	
70	less than 2% of mass 69	0.25	(0.68) 1
127	40 TO 60% of mass 198	52.16	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.65	
275	10 TO 30% of mass 198	19.88	
365	greater than 1% of mass 198	1.19	
441	less than mass 443	5.06	
442	greater than 40% of mass 198	50.00	
443	17 TO 23% of mass 442	9.31	(18.63) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

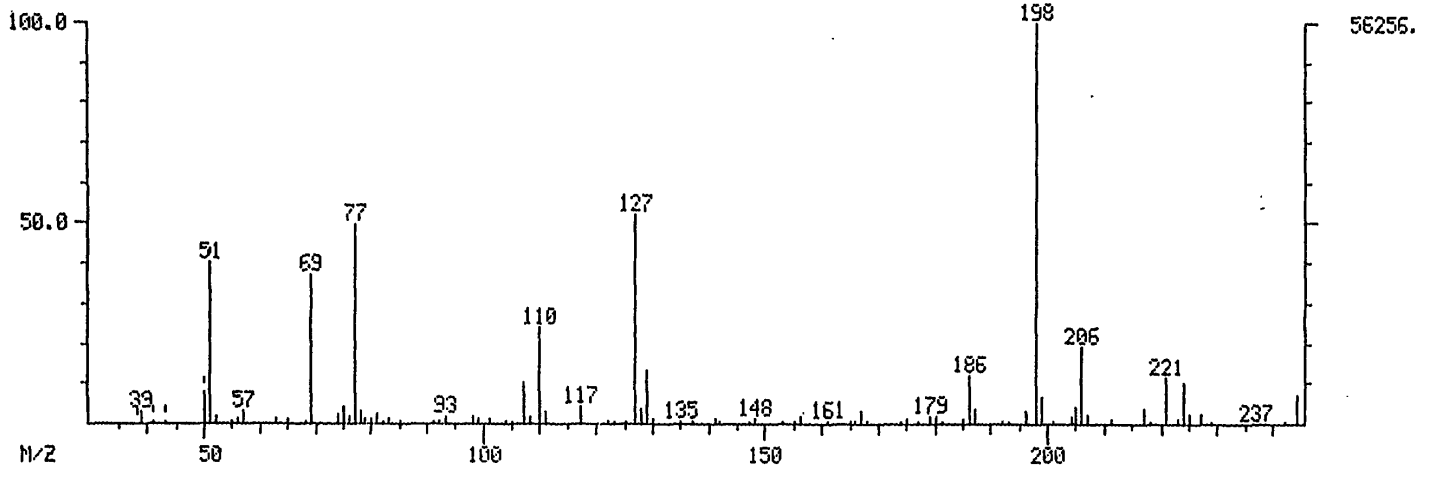
-15

CHESTER DC # ---

MASS SPECTRUM
04/05/93 10:20:00 + 3:43
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:*158 DEG. C
#222 TO #224 SUMMED - #200

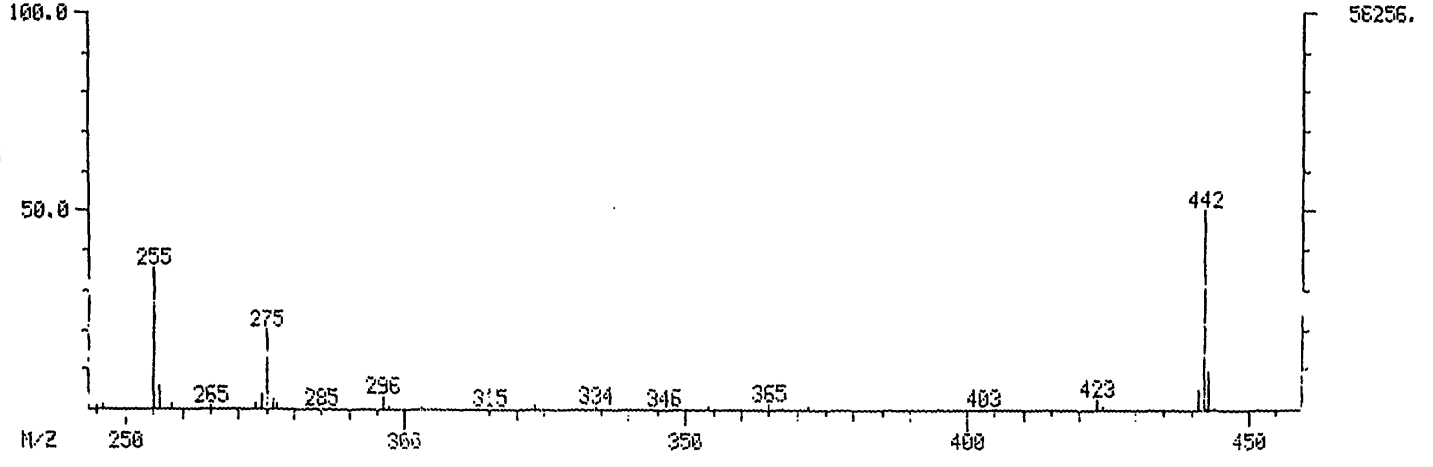
DATA: FS0405C01 #223
CALI: FS0405C01 #3

BASE M/Z: 198
RIC: 368128.



DFTPP SPECTRA

INST ID: 4510



011821

INST ID: 4510 CHESTER DC # --- -15

DFTPP MASS LISTING

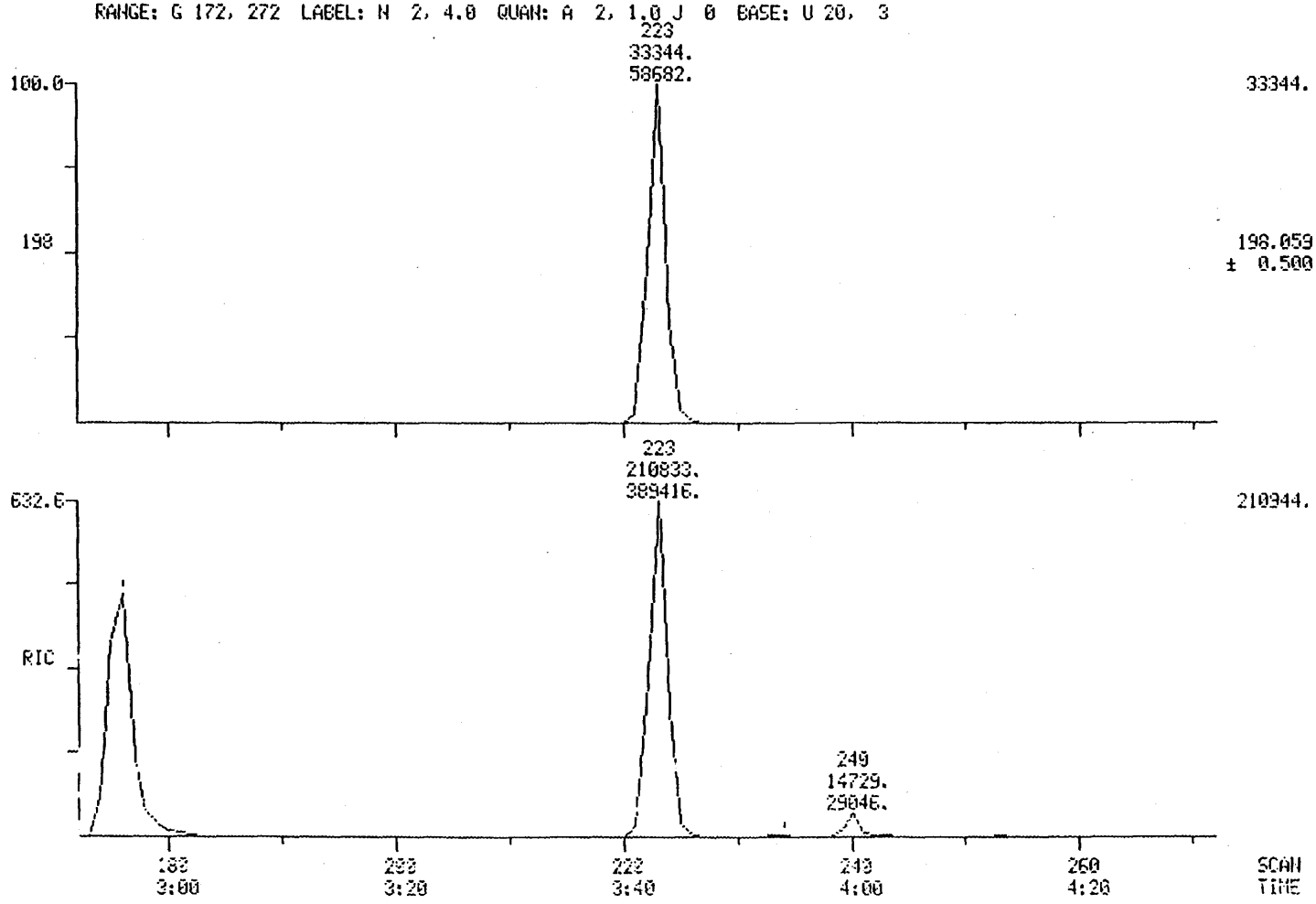
Mass List Data: FS0405C01 # 223 Base m/z: 198
04/05/93 10:20:00 + 3:43 Cali: FS0405C01 # 3 RIC: 368128.
Sample: DFTPP
Conds.: ---
#222 to #224 summed - #200

38		0.00	0.	Minima	Min Inten:	226.
444				Maxima	# 0	
Mass		% RA	Inten.	Mass	% RA	Inten.
39?		3.11	1750.	174	0.45	254.
50	S	7.69	4328.	175	1.31	739.
51	S	40.16	22592.	177	0.43	244.
52		1.80	1014.	179	1.98	1116.
55		0.56	316.	180	1.89	1064.
56		1.04	583.	181	0.84	475.
57		2.71	1522.	185	0.90	509.
63		0.96	540.	186	12.04	6776.
65		0.90	506.	187	3.54	1990.
68		0.45	253.	192	0.51	287.
69		36.86	20736.	193	0.68	384.
74		2.31	1298.	196	3.08	1730.
75		4.29	2412.	198	100.00	56256.
76		1.91	1072.	199	6.65	3740.
77		49.72	27968.	201	0.47	267.
78		3.03	1704.	204	1.87	1050.
79		1.37	769.	205	4.44	2500.
80		1.21	679.	206	19.08	10736.
81		2.14	1204.	207	2.14	1206.
82		0.67	377.	211	1.07	603.
83		1.34	755.	217	3.78	2124.
85		0.53	299.	218	0.44	247.
93		1.99	1122.	221	11.32	6368.
98		1.50	845.	223	0.98	553.
99		1.44	809.	224	10.08	5672.
101		1.05	592.	225	2.30	1294.
104		0.48	269.	227	2.44	1372.
105		0.48	271.	229	0.73	410.
107		10.13	5696.	244	6.91	3888.
108		1.70	955.	245	0.87	490.
110		23.95	13472.	246	0.95	534.
111		2.97	1668.	255	35.61	20032.
117		4.20	2364.	256	5.13	2884.
123		0.58	324.	258	1.23	690.
125		0.41	228.	273	0.98	554.
127		52.16	29344.	274	3.46	1946.
128		3.45	1940.	275	19.88	11184.
129		13.08	7360.	276	2.59	1458.
130		0.98	549.	277	1.05	593.
135		0.89	498.	296	2.87	1612.
137		0.49	277.	323	1.10	617.
141		1.16	653.	334	0.61	341.
142		0.43	244.	365	1.19	670.
147		0.62	348.	372	0.49	278.
148		1.04	586.	423	2.36	1326.
155		0.70	392.	441	5.06	2848.
156		1.65	930.	442	50.00	28128.
161		0.73	409.	443	9.31	5240.
167		3.27	1838.	444	0.76	430.
168		0.89	500.			

011822

011822

RIC+MASS CHROMATOGRAM DATA: FS0405C01 #222 SCANS 172 TO 272
04/05/93 10:20:00 CALI: FS0405C01 #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 172, 272 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



011823

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	04/06/93	Sens Time:	9:01:00
Lab ID:	FS0406C01A	Cali Date:	03/30/93	Analyst:	JDD

Data release authorized by: Juanita D Drummond

M/E	Ion Abundance Criteria	Spec # 221	
51	30 to 60% of mass 198	44.35	
68	less than 2% of mass 69	0.41	(1.00) 1
69	mass 69 relative abundance	41.05	
70	less than 2% of mass 69	0.19	(0.47) 1
127	40 TO 60% of mass 198	55.22	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.54	
275	10 TO 30% of mass 198	20.46	
365	greater than 1% of mass 198	1.47	
441	less than mass 443	4.93	
442	greater than 40% of mass 198	45.38	
443	17 TO 23% of mass 442	8.71	(19.20) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

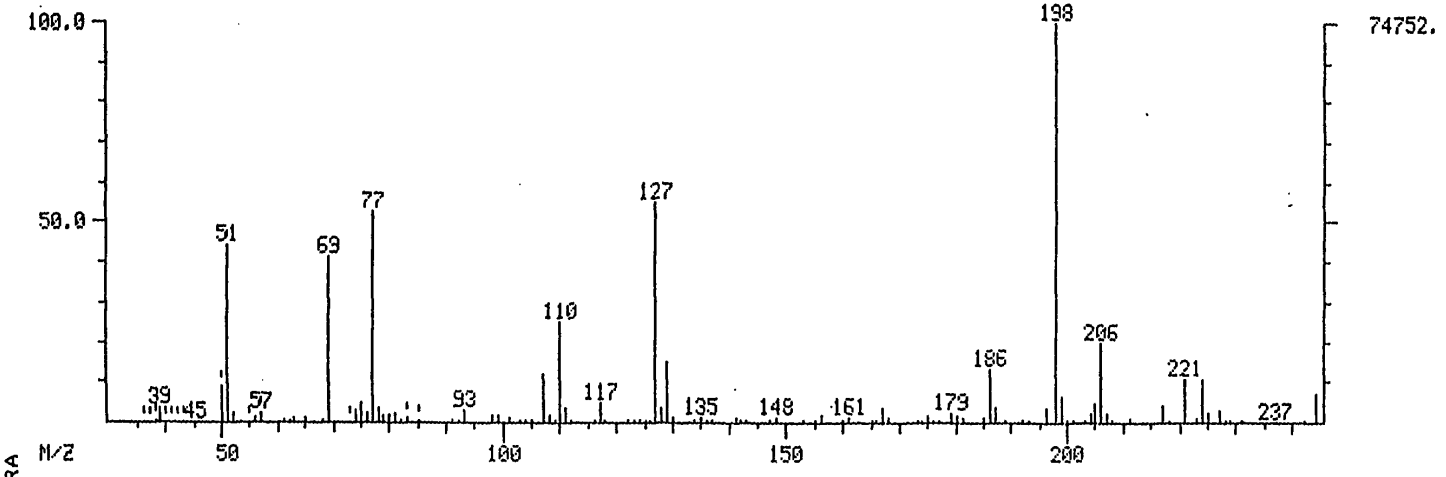
-15

MASS SPECTRUM
04/06/93 9:01:00 + 3:42
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:*150 DEG. C
#221 TO #223 SUMMED - #210

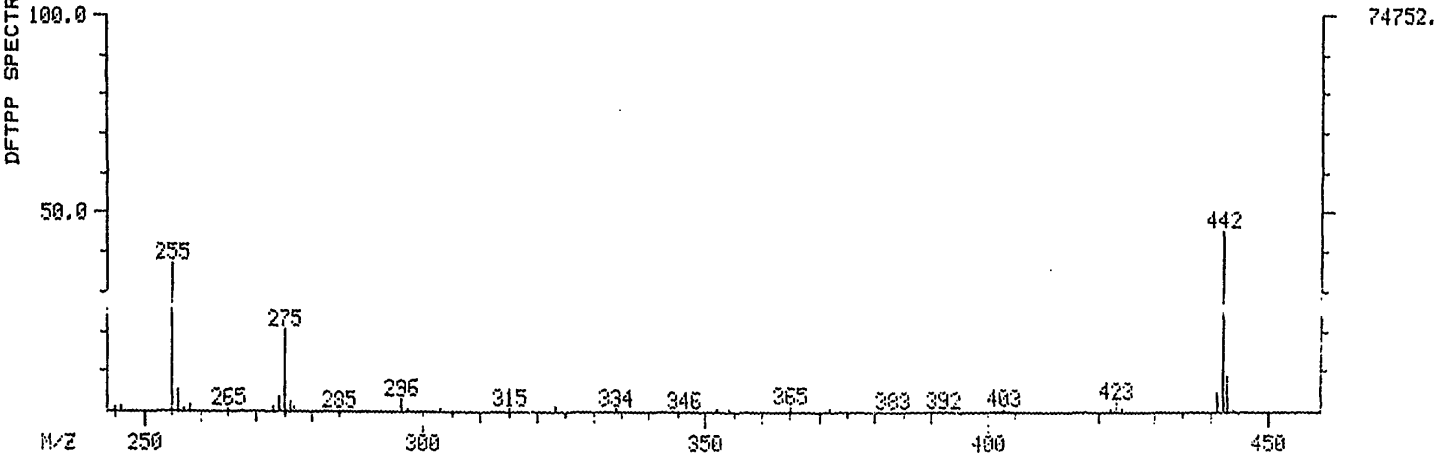
DATA: FS0406C01A #222
CALI: FS0406C01A #3

BASE M/Z: 198
RIC: 527360.

CHESTER DC # ---



DFTPP SPECTRA



INST ID: 4510

011825

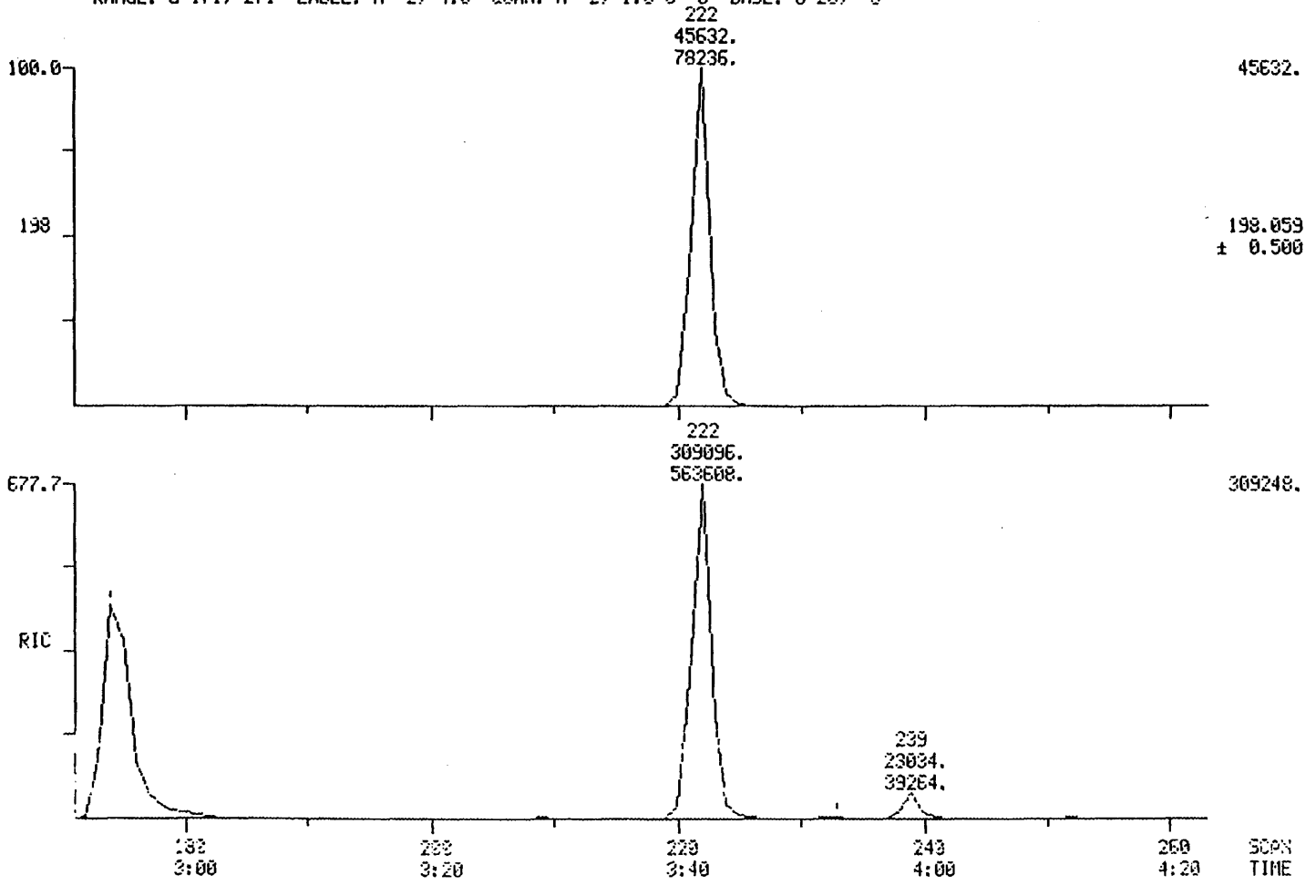
INST ID: 4310 CHESTER DC # --- -15

DFTPP MASS LISTING

Mass List Data: FS0406C01A # 222 Base m/z: 198
04/06/93 9:01:00 + 3:42 Cali: FS0406C01A # 3 RIC: 527360.
Sample: DFTPP
Conds.: ---
#221 to #223 summed - #210

36		0.00	0.	Minima	Min	Inten:	379.
444				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
397		3.62	2704.	175		1.66	1242.
50	S	8.83	6600.	177		0.60	449.
51	S	44.35	33152.	179		2.26	1690.
52		2.16	1616.	180		2.07	1544.
56		1.15	863.	181		0.95	708.
57	S	2.56	1912.	185		1.08	808.
63		1.28	956.	186		13.10	9792.
65		1.07	799.	187		3.76	2812.
69		41.05	30688.	192		0.70	524.
74		2.70	2020.	193		0.75	562.
75		5.04	3768.	196		3.40	2544.
76		2.44	1824.	198		100.00	74752.
77		52.74	39424.	199		6.54	4888.
78		3.54	2644.	204		2.17	1620.
79		1.96	1462.	205		5.05	3772.
80		1.51	1132.	206		19.71	14736.
81		2.47	1844.	207		2.66	1990.
82		0.72	539.	208		0.53	398.
83	S	1.07	800.	211		1.22	914.
92		0.51	383.	217		4.34	3244.
93		2.71	2028.	218		0.62	464.
98		1.88	1408.	221		11.07	8272.
99		1.88	1402.	223		0.98	734.
101		1.15	859.	224		10.66	7968.
104		0.67	501.	225		2.49	1862.
105		0.80	596.	227		2.91	2172.
107		11.82	8832.	229		0.88	658.
108		1.85	1380.	244		6.92	5176.
110		24.87	18592.	245		1.02	761.
111		3.30	2468.	246		1.20	894.
117		4.87	3640.	255		37.24	27840.
123		0.87	653.	256		5.52	4128.
127		55.22	41280.	258		1.51	1128.
128		3.77	2820.	265		0.56	416.
129		14.73	11008.	273		1.05	785.
130		1.26	945.	274		3.61	2696.
135		1.10	821.	275		20.46	15296.
137		0.61	455.	276		2.66	1990.
141		1.36	1017.	277		1.33	996.
142		0.56	420.	296		3.26	2440.
147		0.85	634.	323		1.36	1013.
148		1.34	1000.	334		0.87	651.
155		0.88	655.	354		0.51	380.
156		2.08	1558.	365		1.47	1100.
160		0.51	384.	372		0.66	493.
161		0.91	683.	423		2.39	1786.
165		0.58	435.	441		4.93	3684.
167		3.59	2680.	442		45.38	33920.
168		1.16	865.	443		8.71	6512.
174		0.71	532.	444		0.75	562.

RIC+MASS CHROMATOGRAM DATA: FS0406C01A #221 SCANS 171 TO 263
04/06/93 9:01:00 CALI: FS0406C01A #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 171, 271 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



011828

Ches' _abNet

LOW LEVEL SV SOLID EXTRACTION FORM

Chester Lab. No.. H93-0413

Client: DAMES-MOOR

RUSH 4/3

N ✓

DASH NO.	SAMPLE NO.	SAMPLE WEIGHT	SURR. NO. & DATE	SURR. VOLUME	SPIKE NO. & DATE	VOL. OF SURR.	DATE/ TIME	ANAL.
001	LAB BLK	30.0g	#6226A 03-25-93	0.5mL			04-01-93 ~~04-01-93~~	~~BHA~~
002	SC-WS (DWC) B							
003	SC-WA (GD) C							
004	SC-WA (GCD) C							
005	SC-WA (HCD) C							
006	SC-WA (CILCD) C							
	Nothing							

DASH NO.	COMMENTS	GPC CLEAN DATE	ANAL.	Vf
001				1.0mL
002				1.0mL
003				2.5mL
004				1.0mL
005				1.0mL
006				1.5mL
	Nothing			

Conc. 04-01-93 ~~04-01-93~~ BHA

Temp. 76°C

Solvent Lot# BE366 cu.d.

Report Date: 4-2-93 JL

Nitrogen Blowdown: 4-2-93 JL

Low Level SV Ext. (09/91) REVISED

000015 000063

011828

011829

1-APR-1993

KEYSTONE LAB - HOUSTON
Job Summary Sheet

Produced on 1-APR-1993

PRIORITY

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-04.3
Due Date : 3-APR-1993
Date Rec'd : 31-MAR-1993
Project ID :
P.O. Number: 15504

Attention:

Contact: BRUCE HICKMAN

Job Description: DAMES & MOORE (RCRA)
Number of samples: 6 Sampled by: CLIENT

Job Comments:
RUSH!! 72 HOUR TURNAROUND. RESULTS DUE 4/2/93. MS_SV:FOR SV_TCL,PLEASE ANAL
FOR PAH/SI!
SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Pnt.	Sample Matrix	Date Sampled
3-001	LAB BLANK	QA_QC	SOIL	31-MAR-93
3-002	SC-W5(DWC)5	X	SOIL	31-MAR-93
3-003	SC-W9(SD)C	X	SOIL	31-MAR-93
3-004	SC-W9(SSD)C	X	SOIL	31-MAR-93
3-005	SC-W9(MCD)C	X	SOIL	31-MAR-93
3-006	SC-W9(C1/C2)C	X	SOIL	31-MAR-93

Analysis ID	Parameter Description	Number of Analyses
DRY_WT	Dry Weight Factor	6
EXT_8270SX	(Soil) Extraction by EPA 8270	6
SV_TCL_SX	Semivolatiles (Target Compound List)-Soil	6

000064

011829

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of ____

Project Number 18804

Project Location South Cavalcade

Laboratory Keystone

Sampler(s) Wes Hardt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	pH (150.1)	TOC (415.1)	COD (410.1)	TS (160.2)	TDS (160.1)	CPAH 8270	BTEX 8020	As 7060	Cr	PA CPAH	TOTAL
SC-RW-C	3/31/93	X	X	X	X	X	X	X	X	X		
SC-W5(DWC)B											X	
SC-W9(S)C											X	
SC-W9(SSD)C											X	
SC-W9(MCD)C											X	
SC-W9(G/CZ)C											X	

Relinquished by: [signature]	Organization: Dunest Moore	Date: 3/31/93	Time 345	Seal Intact?
Received by: [signature]	Organization: CHESTER ENVIRONMENTAL	Date: 3/31/93	Time 345	Yes No N/A
Relinquished by:	Organization:	Date: / /	Time	Seal Intact?
Received by:	Organization:	Date: / /	Time	Yes No N/A

Special Instructions / Remarks: per Sampling plan

Delivery Method: ☒ In Person ☐ Common Carrier _____ specify ☐ Lab Courier ☐ Other _____

011830