SDMS US EPA REGION V -1

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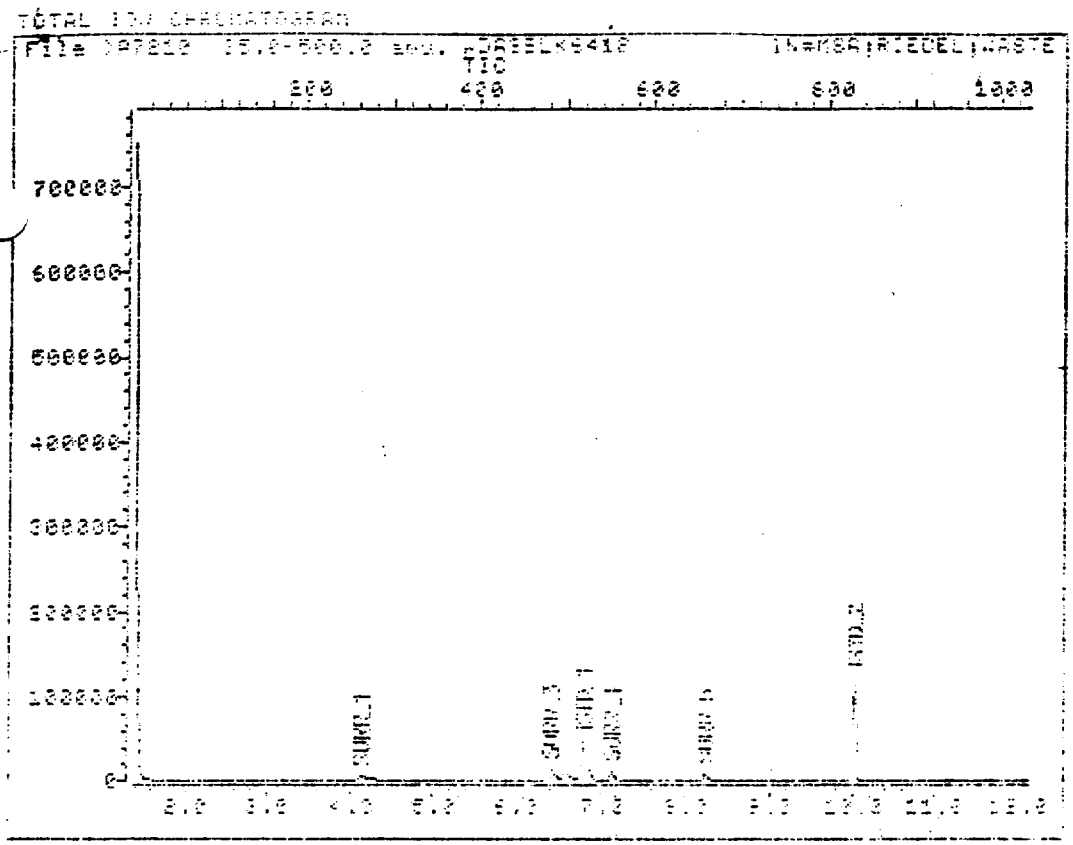
160331

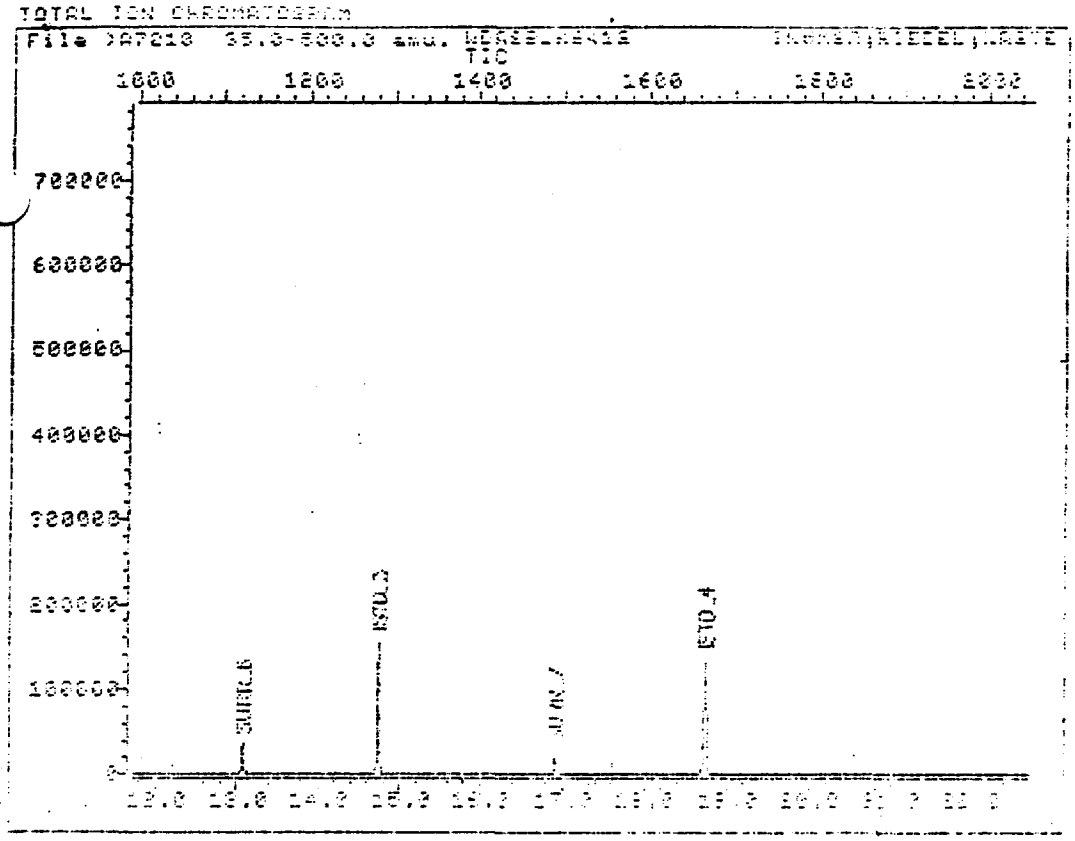


Data File: >A7210::D5 Quant Output File: ^A7210::D2
Name: WDASBLK6412 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WASTE DIL.;1:10+ BTL#10

Id File: I_ATCP::OT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 19:12
Injected at: 950610 18:37

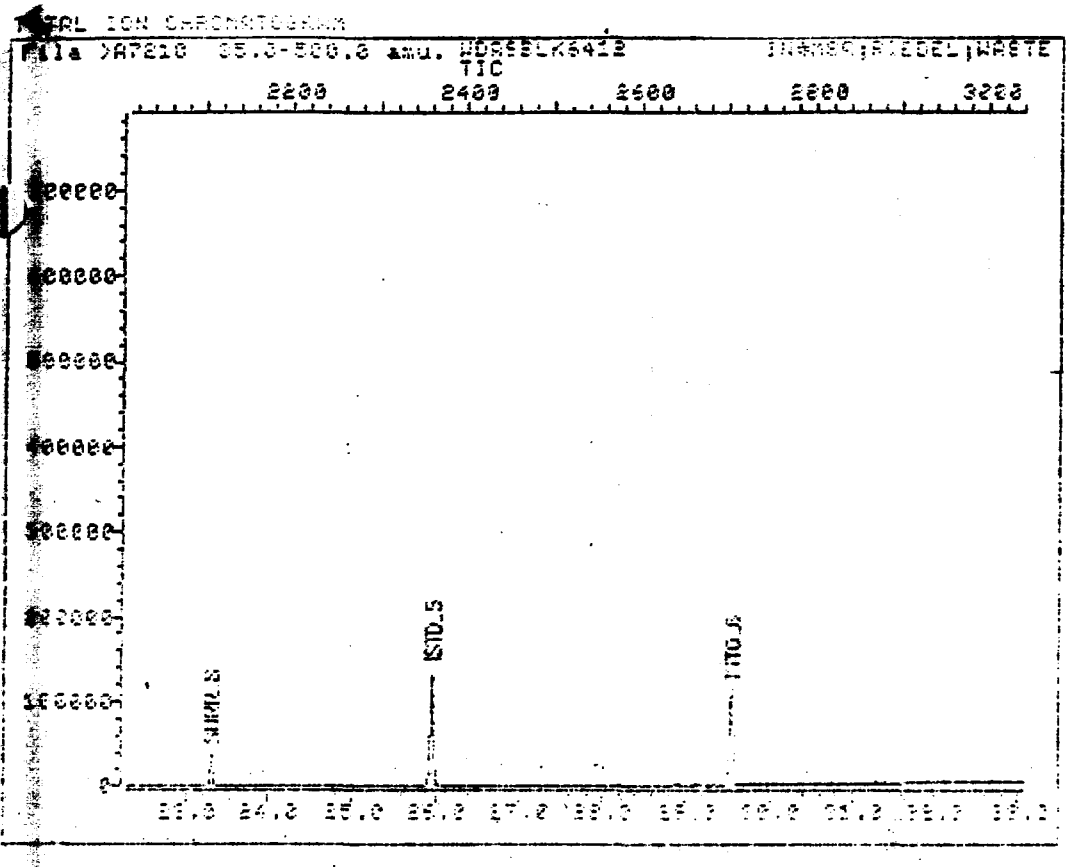
Page 1 of 3



Data File: >A7210::D5 Quant Output File: ^A7210::D2
Name: WDASBLK6412 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WASTE DIL.;1:10- RTL#10

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 19:12
Injected at: 950610 18:37



Data File: >A7210::D5 Quant Output File: ^A7210::D2
Name: WDASBLK6412 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WASTE DIL.;1:104 PTL#10

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 19:12
Injected at: 950610 18:37

QUANT REPORT

rator ID: MSA
out File: ^A7210::D2
File: >A7210::D5
: WDASBLK6412
: IN#MSA;RIEDEL;WASTE DIL.;1:10+

Quant Rev: 7
Quant Time: 950610 19:12
Injected at: 950610 18:37
Dilution Factor: 10.00000
Instrument ID: MSA
BTL#10

ile: I_ATCP::QT
e: SEMIVOLATILE BNA'S
Calibration: 950607 09:26

DF-10,000

~~[illegible]~~ DMC 6/14/95

Last Qcal Time: 950608 07:49

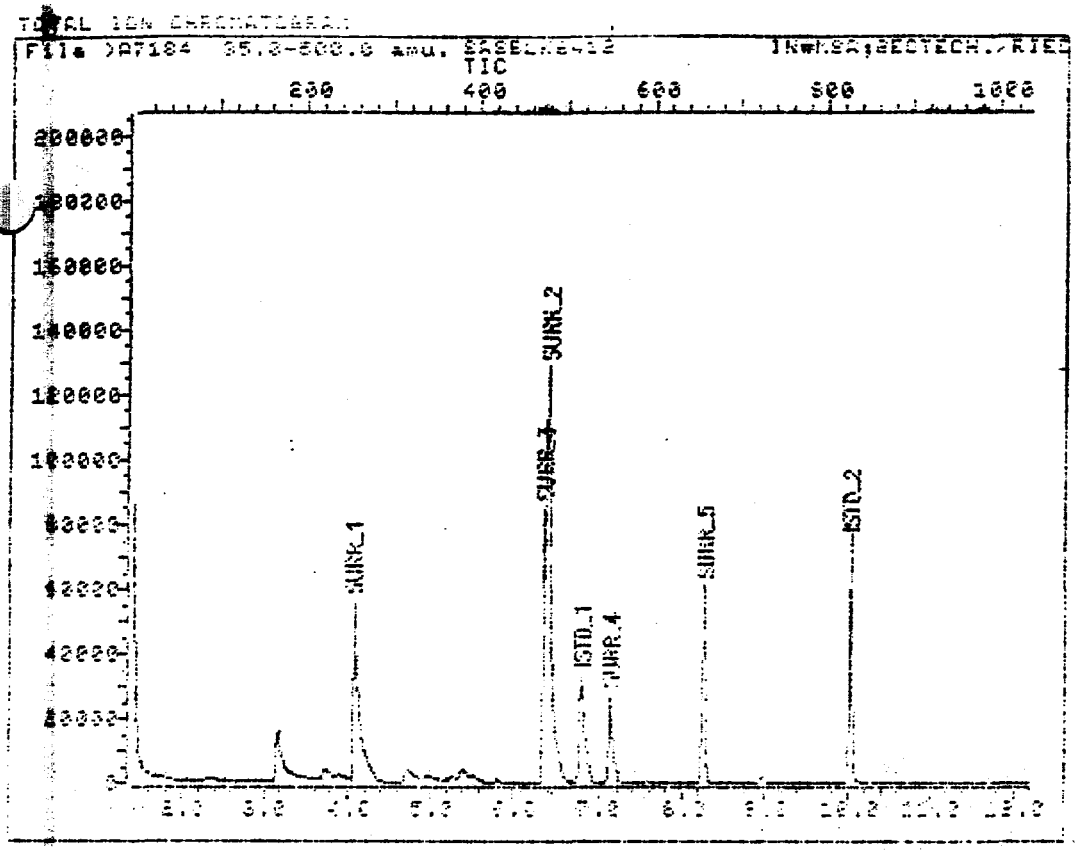
Compound	R.T.	Q ion	Area	Conc	Units	q
*d4-1,4-Dichlorobenzene	6.79	152.0	36730	40.00	ng/uL	95
2-Fluorophenol	4.13	112.0	17624	181.74	ng/uL	92
~~Phenol~~	~~6.58~~	~~94.0~~	~~127~~	~~15.16~~	~~ng/uL~~	~~100~~
2-Chlorophenol-d4	6.42	132.0	21173	162.80	ng/uL	91
1,2-Dichlorobenzene-d4	7.14	150.0	11750	84.09	ng/uL	92
*d8-Naphthalene	10.03	136.0	116657	40.00	ng/uL	99
Nitrobenzene-d5	8.25	82.0	9688	83.06	ng/uL	92
*d10-Acenaphthene	14.74	164.0	72400	40.00	ng/uL	93
2-Fluorobiphenyl	13.09	172.0	21049	93.87	ng/uL	97
*d10-Phenanthrene	18.75	188.0	108254	40.00	ng/uL	98
2,4,6-Tribromophenol	16.92	330.0	7531	191.34	ng/uL	96
*d12-Chrysene	25.97	240.0	122598	40.00	ng/uL	92
Terphenyl-d14	23.31	244.0	26262	90.68	ng/uL	81
*d12-Perylene	29.56	264.0	118751	40.00	ng/uL	98

Compound is ISTD

(10,000)

*(e) Phenol-d5 (6.57) 156.38 ng/ml

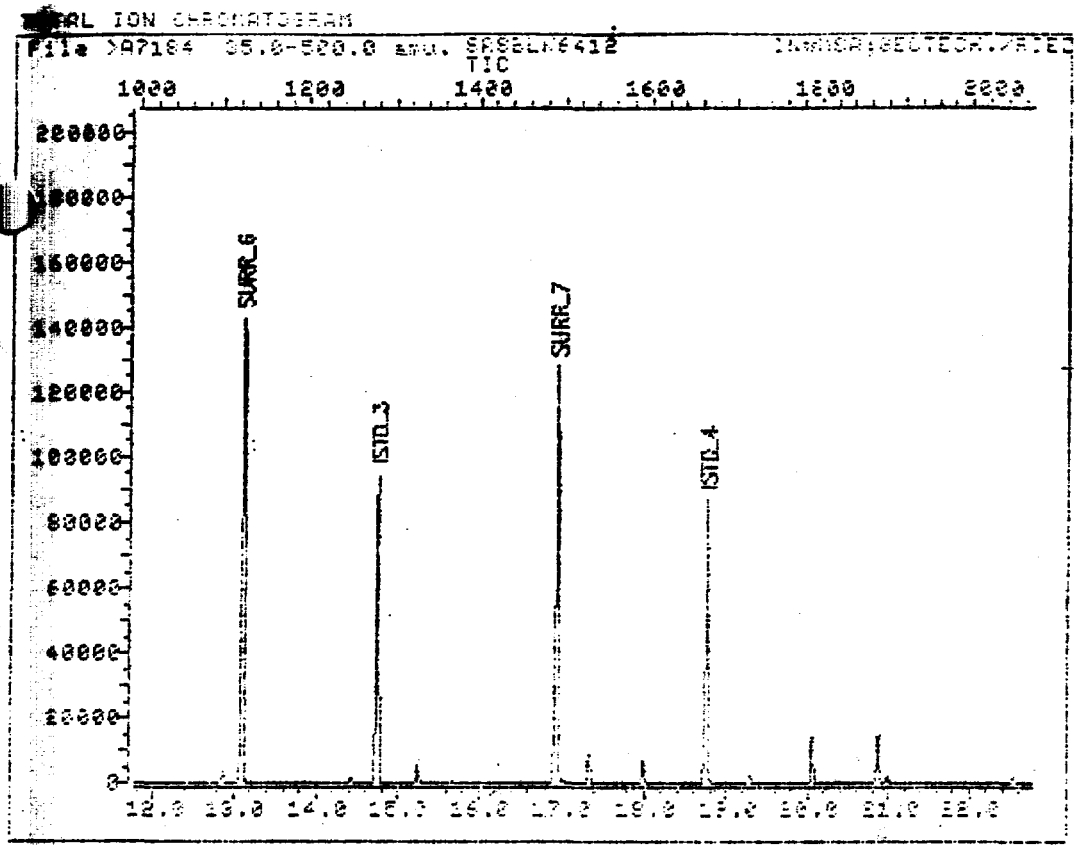
DMC 6/13/95



Data File: >A7184::D5 Quant Output File: ^A7184::D2
Name: SASBLK6412 Instrument ID: MSA
Misc: IN#MSA;GEOTECH./RIEDEL;SOIL;1:14 ICL# 1

IG File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:25 Last Ocal Time: 950608 07:49

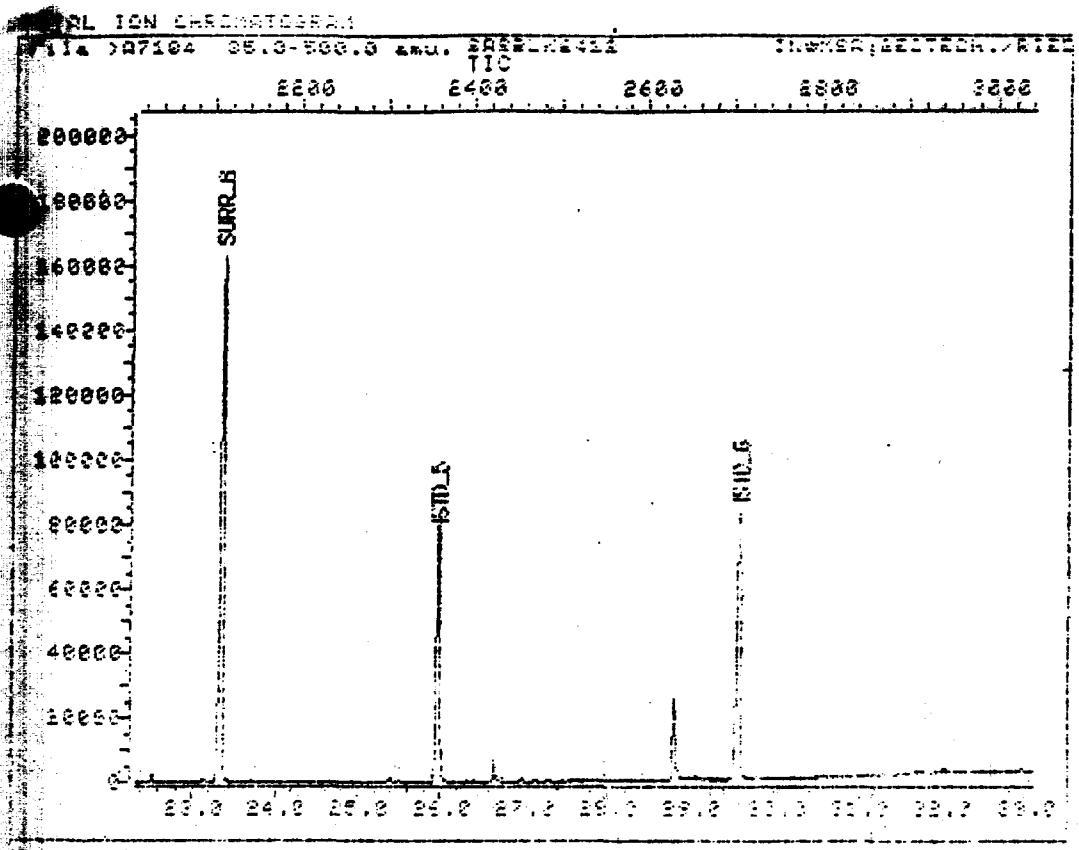
Operator ID: MSA
Quant Time : 950609 12:44
Injected at: 950609 12:10



Data File: >A7184::D5 Quant Output File: ^A7184::D2
Name: SASBLK6412 Instrument ID: MSA
Misc: IN#MSA;GEOTECH./RIEDEL;SOIL;1:1+ BTL# 1

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950609 12:44
Injected at: 950609 12:10



Data File: >A7184::D5 Quant Output File: ^A7184::D2
Name: SASBLK6412 Instrument ID: MSA
Misc: IN#MSA;GEOTECH./RIEDEL;SOIL;1:1+ STD# 1

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950609 12:44
Injected at: 950609 12:10

Operator ID: MSA
Output File: ^A7184::D2
Data File: >A7184::D5
Name: SASBLK6412
Misc: IN#MSA;GEOTECH./RIEDEL;SOIL;1:1+

Quant Rev: 7
Quant Time: 950609 12:44
Injected at: 950609 12:10
Dilution Factor: 1.00000
Instrument ID: MSA
BTL# 1

DF=33.3

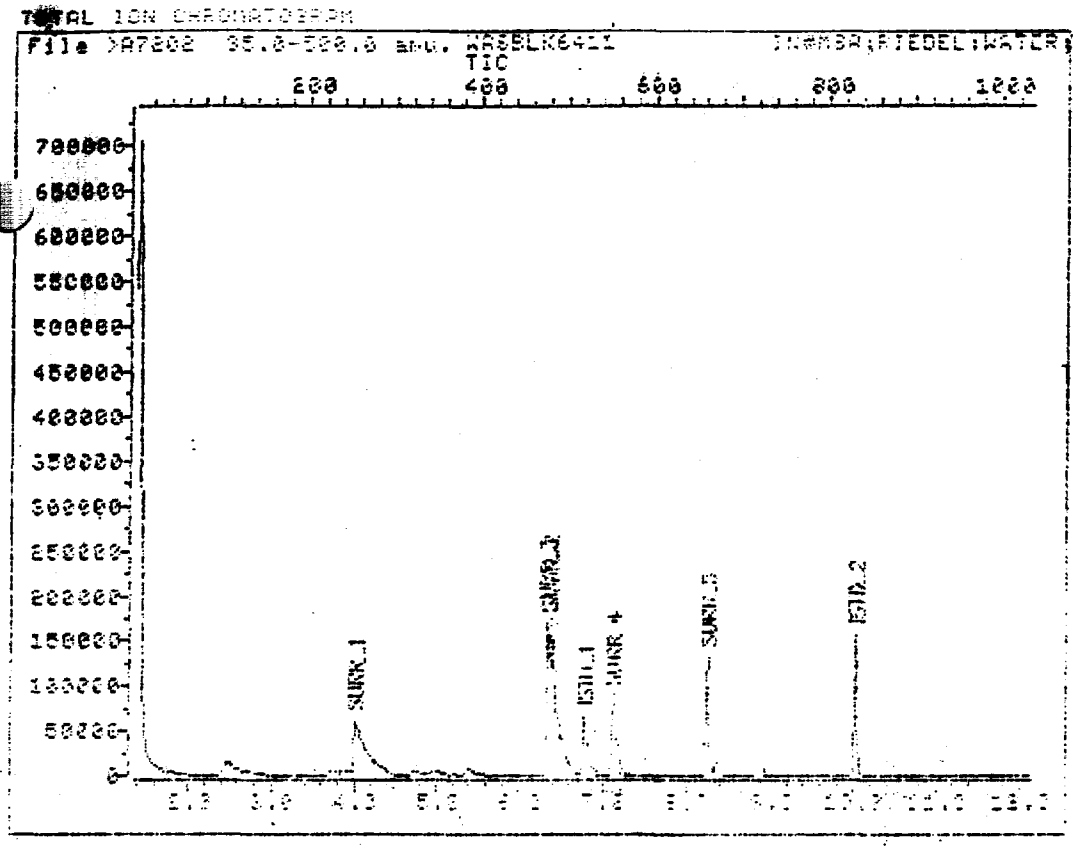
ID File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26
Last Qcal Time: 950608 07:49

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	6.81	152.0	23507	40.00	ng/uL	96
4)	2-Fluorophenol	4.07	112.0	76717	106.05	ng/uL	93
6)	Phenol-d5	6.41	99.0	112339	130.95	ng/uL	71
~~7)~~	~~Phenol~~	~~6.38~~	~~94.0~~	~~160~~	~~1.00~~	~~ng/uL~~	~~100~~
9)	2-Chlorophenol-d4	6.36	132.0	81855	114.07	ng/uL	88
14)	1,2-Dichlorobenzene-d4	7.15	150.0	25324	26.74	ng/uL	87
21)	*d8-Naphthalene	10.03	136.0	75659	40.00	ng/uL	99
22)	Nitrobenzene-d5	8.28	82.0	50726	66.44	ng/uL	91
36)	*d10-Acenaphthene	14.78	164.0	44734	40.00	ng/uL	89
41)	2-Fluorobiphenyl	13.11	172.0	100758	72.63	ng/uL	[illegible]
~~[illegible])~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~
47)	*d10-Phenanthrene	15.76	188.0	[illegible]	40.00	ng/uL	[illegible]
[illegible])	2,4,6-Tribromophenol	[illegible]	[illegible]	[illegible]	[illegible]	ng/uL	[illegible]
~~[illegible])~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~
[illegible])	Triphenylene	21.37	228.0	[illegible]	[illegible]	ng/uL	[illegible]
[illegible])	Terphenyl-d14	23.37	244.0	[illegible]	104.[illegible]	ng/uL	[illegible]
~~[illegible])~~	~~Butylbenzylphthalate~~	~~24.[illegible]~~	~~149.0~~	~~[illegible]~~	~~[illegible]~~	~~ng/uL~~	~~[illegible]~~
~~[illegible])~~	~~Bis(2-Ethylhexyl)phthalate~~	~~25.[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~ng/uL~~	~~[illegible]~~
[illegible])	*d12-Perylene	29.15	264.0	97703	40.00	ng/uL	[illegible]

* Compound is ISTD

GDM
QAUF(33.3)
Final

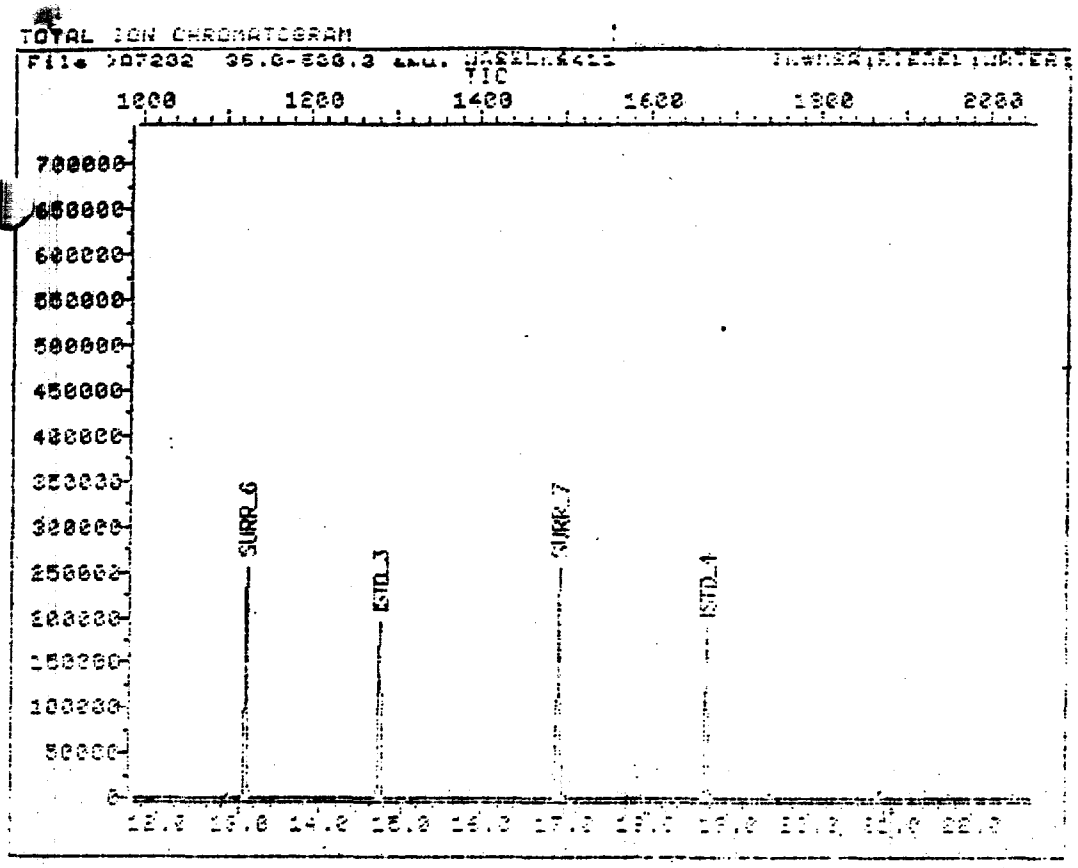
DMC 6/12/95



Data File: >A7202::D5 Quant Output File: >A7202::D2
Name: WASBLK6411 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WATER;1:1 BTL# 2

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 13:20
Injected at: 950610 12:46

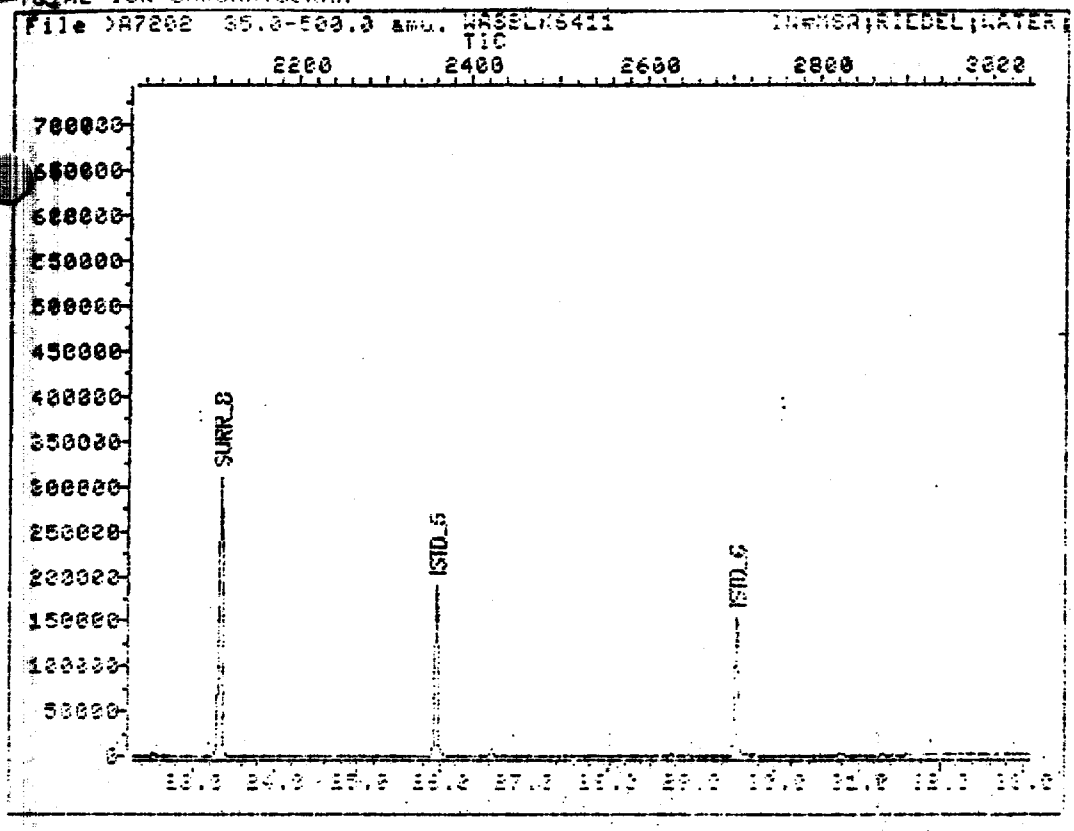


Data File: >A7202::D5 Quant Output File: ^A7202::D2
Name: WASBLK6411 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WATER;1:1 MTL# 2

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:25 Last Qcal Time: 950608 07:45

Operator ID: MSA
Quant Time : 950610 13:20
Injected at: 950610 12:46

TOTAL ION CHROMATOGRAM



Data File: >A7202::D5 Quant Output File: ^A7202::D2
Name: WASBLK6411 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WATER;1:1 BTI# 2

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 13:20
Injected at: 950610 12:46

Operator ID: MSA
Output File: ^A7202::D2
Data File: >A7202::D5
[illegible]: WASBLK6411
Misc: IN#MSA;RIEDEL;WATER;1:1

Quant Rev: 7
Quant Time: 950610 13:20
Injected at: 950610 12:46
Dilution Factor: 1.00000
Instrument ID: MSA
BTL# 2

ID File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26
Last Qcal Time: 950608 07:49

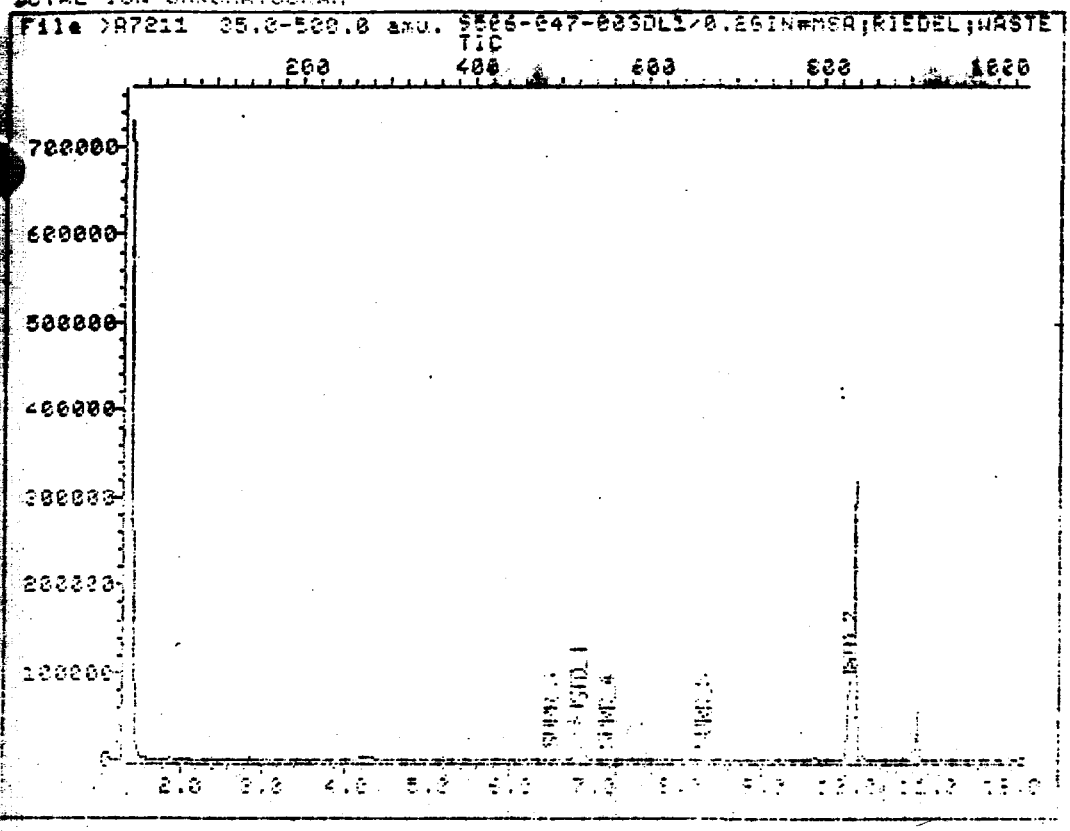
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	6.80	152.0	49962	40.00	ng/uL	95
4)	2-Fluorophenol	4.01	112.0	174723	113.48	ng/uL	93
6)	Phenol-d5	6.38	99.0	211863	113.25	ng/uL	75
~~7)~~	~~Phenol~~	~~6.38~~	~~94.0~~	~~324~~	~~1.58~~	~~ng/uL~~	~~100~~
9)	2-Chlorophenol-d4	6.34	132.0	210628	141.78	ng/uL	91
14)	1,2-Dichlorobenzene-d4	7.13	150.0	96083	48.68	ng/uL	82
21)	*d8-Naphthalene	10.03	136.0	154652	40.00	ng/uL	98
22)	Nitrobenzene-d5	8.26	82.0	113749	73.41	ng/uL	94
36)	*d10-Acenaphthene	14.74	164.0	98847	40.00	ng/uL	98
41)	2-Fluorobiphenyl	13.10	172.0	177322	56.70	ng/uL	97
~~[illegible]~~	~~AZOBENZENE~~	~~[illegible]~~	~~77.0~~	~~321~~	~~[illegible]~~	~~ng/uL~~	~~[illegible]~~
57)	*d10-Phenanthrene	18.74	188.0	154149	40.00	ng/uL	99
60)	2,4,6-Tribromophenol	15.94	330.0	82744	153.78	ng/uL	97
~~[illegible]~~	~~Di-n-Butylphthalate~~	~~[illegible]~~	~~149.0~~	~~[illegible]~~	~~[illegible]~~	~~ng/uL~~	~~[illegible]~~
[illegible])	*d12-Chrysene	25.96	240.0	165152	40.00	ng/uL	94
[illegible])	Terphenyl-d14	23.35	244.0	315699	103.98	ng/uL	79
~~79)~~	~~bis(2-Ethylhexyl)phthalate~~	~~26.64~~	~~149.0~~	~~1283~~	~~1.31~~	~~ng/uL~~	~~62~~
80)	*d12-Perylene	29.55	264.0	148384	40.00	ng/uL	99

* Compound is ISTD

QCM Form

DMC 6/12/95

TOTAL ION CHROMATOGRAM

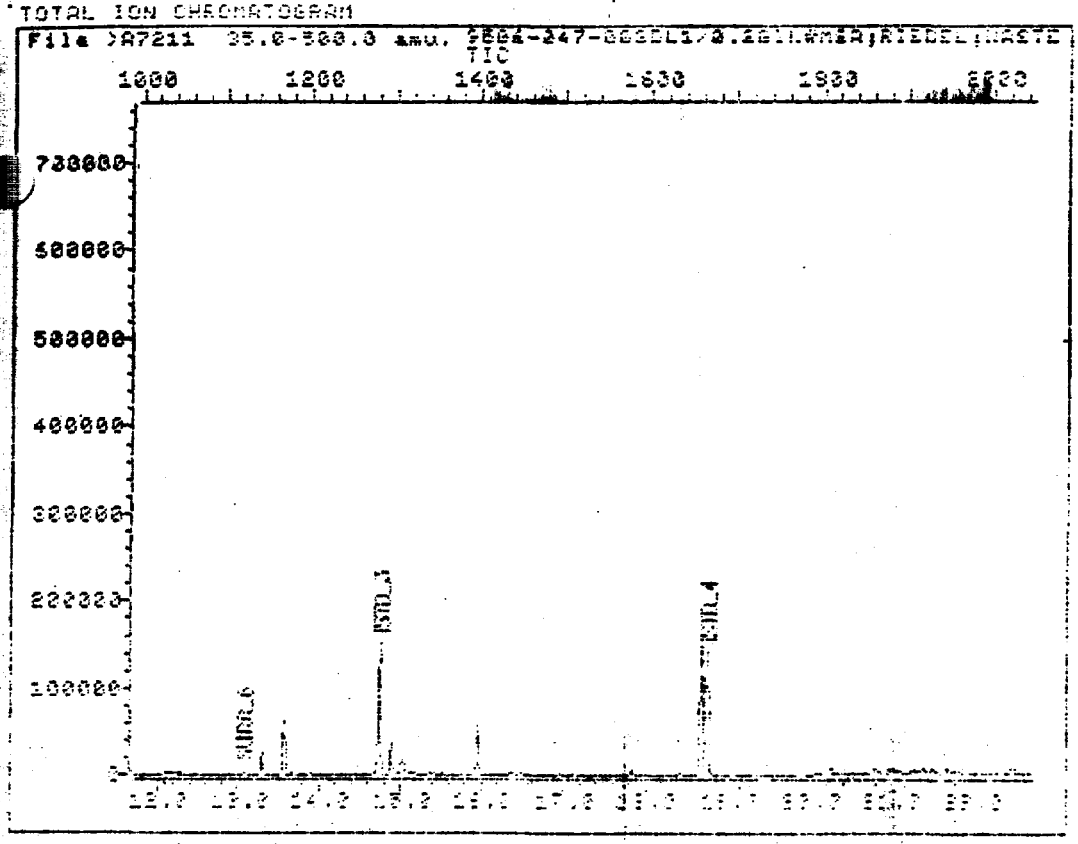


Data File: >A7211::D5 Quant Output File: ^A7211::D2
Name: 9506-047-003DL1/0.2G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WASTE DIL.;;1:10)1:100+ BTL#11

Id File: I_ATCP::OT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 19:55
Injected at: 950610 19:21

TOTAL ION CHROMATOGRAM

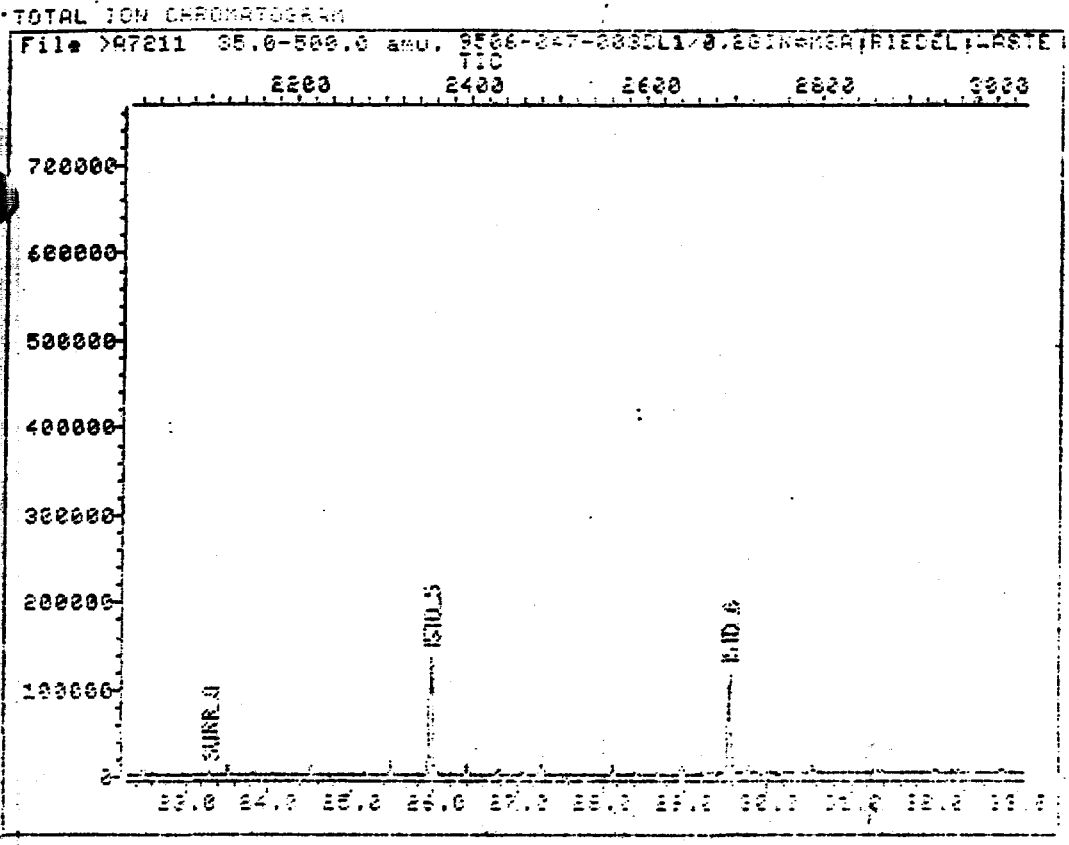


Data File: >A7211::D5 Quant Output File: ^A7211::D2
Name: 9506-047-003DL1/0.2G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WASTE DIL.;(1:10)1:100 BTL#11

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 19:55
Injected at: 950610 19:21

TOTAL ION CHROMATOGRAM



Data File: >A7211::D5 Quant Output File: ^A7211::D2
Name: 9506-047-003DL1/0.2G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WASTE DIL.;(1:10)1:100+ BTL#11

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 19:55
Injected at: 950610 19:21

QUANT REPORT

Operator ID: MSA
Output File: ^A7211::D2
Data File: >A7211::D5
Sample: 9506-047-003DL1/0.2G
Misc: IN#MSA;RIEDEL;WASTE DIL.;(1:10)1:100+

Quant Rev: 7
Quant Time: 950610 19:55
Injected at: 950610 19:21
Dilution Factor: 100.0000
Instrument ID: MSA
BTL#11

ID File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26

QF- 500,000

Last Qcal Time: 950608 07:49

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	6.80	152.0	36942	40.00	ng/uL	96
~~[illegible])~~	~~Phenol~~	~~6.31~~	~~94.0~~	~~109~~	~~150.71~~	~~ng/uL~~	~~100~~
~~[illegible])~~	~~2-Chlorophenol-d4~~	~~6.40~~	~~132.0~~	~~1535~~	~~0.00~~	~~ng/uL~~	~~96~~
~~[illegible])~~	~~Benzyl Alcohol~~	~~7.51~~	~~108.0~~	~~956~~	~~195.67~~	~~ng/uL~~	~~67~~
~~[illegible])~~	~~1,2-Dichlorobenzene-d4~~	~~7.15~~	~~150.0~~	~~1545~~	~~199.07~~	~~ng/uL~~	~~68~~
~~[illegible])~~	~~2-Methylphenol~~	~~7.51~~	~~108.0~~	~~956~~	~~121.38~~	~~ng/uL~~	~~77~~
~~[illegible])~~	~~4-Methylphenol~~	~~7.66~~	~~108.0~~	~~140~~	~~6.19~~	~~ng/uL~~	~~66~~
21)	*d8-Naphthalene	10.03	136.0	121158	40.00	ng/uL	99
~~[illegible])~~	~~Nitrobenzene-d5~~	~~8.29~~	~~82.0~~	~~693~~	~~140.68~~	~~ng/uL~~	~~87~~
~~[illegible])~~	~~2,4-Dimethylphenol~~	~~9.61~~	~~122.0~~	~~131~~	~~0.00~~	~~ng/uL~~	~~62~~
~~[illegible])~~	~~Benzoic Acid~~	~~11.78~~	~~122.0~~	~~116~~	~~207.90~~	~~ng/uL~~	~~79~~
31)	Naphthalene	10.11	128.0	350846	13172.04	ng/uL	98
~~[illegible])~~	~~2-Methylnaphthalene~~	~~11.98~~	~~142.0~~	~~495~~	~~9.69~~	~~ng/uL~~	~~98~~
36)	*d10-Acenaphthene	14.75	164.0	75257	40.00	ng/uL	99
~~[illegible])~~	~~2,4,6-Trichlorophenol~~	~~12.97~~	~~196.0~~	~~550~~	~~266.97~~	~~ng/uL~~	~~85~~
~~[illegible])~~	~~2-Fluorobiphenyl~~	~~13.98~~	~~172.0~~	~~2701~~	~~286.99~~	~~ng/uL~~	~~93~~
~~[illegible])~~	~~AZOBENZENE~~	~~16.37~~	~~77.0~~	~~478~~	~~410.70~~	~~ng/uL~~	~~62~~
~~[illegible])~~	~~Fluorene~~	~~15.24~~	~~166.0~~	~~182~~	~~245.97~~	~~ng/uL~~	~~97~~
57)	*d10-Phenanthrene	18.76	188.0	113971	40.00	ng/uL	97
~~[illegible])~~	~~N-Nitrosodiphenylamine (1)~~	~~15.86~~	~~169.0~~	~~511~~	~~925.46~~	~~ng/uL~~	~~70~~
~~[illegible])~~	~~Phenanthrene~~	~~18.86~~	~~178.0~~	~~1957~~	~~362.42~~	~~ng/uL~~	~~97~~
~~[illegible])~~	~~Fluoranthene~~	~~21.92~~	~~202.0~~	~~269~~	~~468.53~~	~~ng/uL~~	~~5~~
72)	*d12-Chrysene	25.97	240.0	120559	40.00	ng/uL	89
~~[illegible])~~	~~Pyrene~~	~~22.60~~	~~202.0~~	~~2659~~	~~426.02~~	~~ng/uL~~	~~96~~
~~[illegible])~~	~~Terphenyl-d14~~	~~23.91~~	~~244.0~~	~~3436~~	~~0.00~~	~~ng/uL~~	~~77~~
~~[illegible])~~	~~Benzo(a)Anthracene~~	~~25.35~~	~~228.0~~	~~1284~~	~~207.74~~	~~ng/uL~~	~~62~~
~~[illegible])~~	~~Chrysene~~	~~25.65~~	~~228.0~~	~~1284~~	~~147.51~~	~~ng/uL~~	~~88~~
~~[illegible])~~	~~Chrysene~~	~~26.02~~	~~228.0~~	~~1897~~	~~166.13~~	~~ng/uL~~	~~97~~
80)	*d12-Perylene	29.56	264.0	125024	40.00	ng/uL	97
~~[illegible])~~	~~Benzo(b)Fluoranthene~~	~~28.60~~	~~252.0~~	~~110~~	~~603.27~~	~~ng/uL~~	~~79~~
~~[illegible])~~	~~Benzo(k)Fluoranthene~~	~~28.68~~	~~252.0~~	~~440~~	~~1539.88~~	~~ng/uL~~	~~79~~
~~[illegible])~~	~~Benzo(a)Pyrene~~	~~29.41~~	~~252.0~~	~~620~~	~~591.95~~	~~ng/uL~~	~~82~~
~~[illegible])~~	~~Dibenzo(a,h)Anthracene~~	~~32.17~~	~~278.0~~	~~126~~	~~429.36~~	~~ng/uL~~	~~83~~
~~[illegible])~~	~~Benzo(g,h,i)Perylene~~	~~32.34~~	~~276.0~~	~~310~~	~~497.13~~	~~ng/uL~~	~~75~~

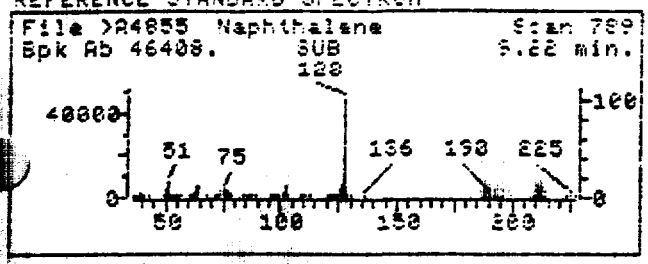
* Compound is ISTD

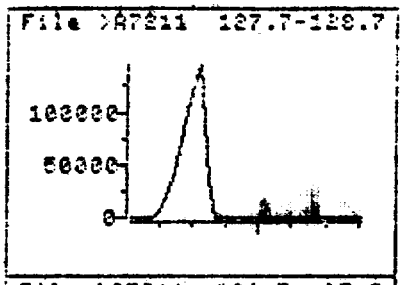
QF (500,000)
found

DHC 4/13/95

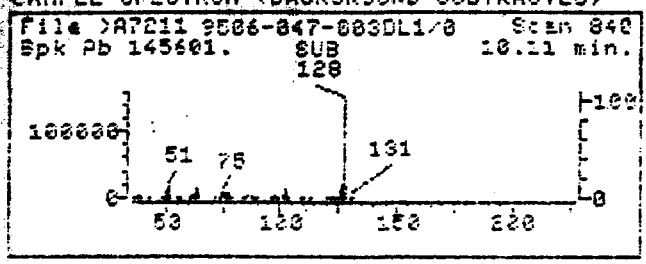
Sum. dil out.

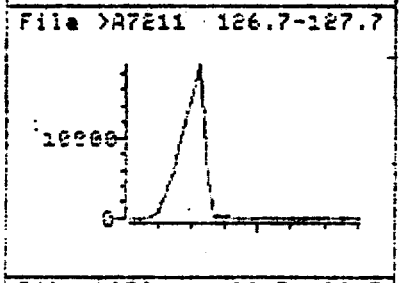
REFERENCE STANDARD SPECTRUM



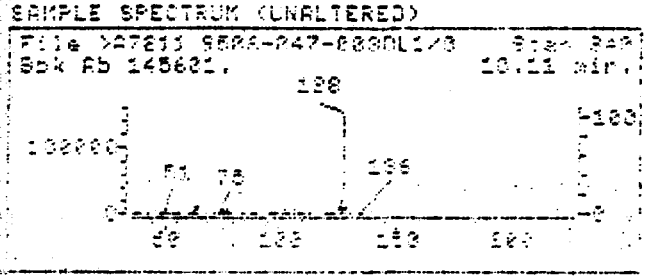


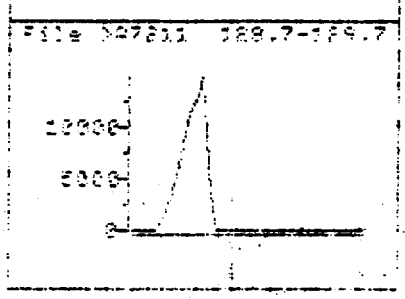
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)



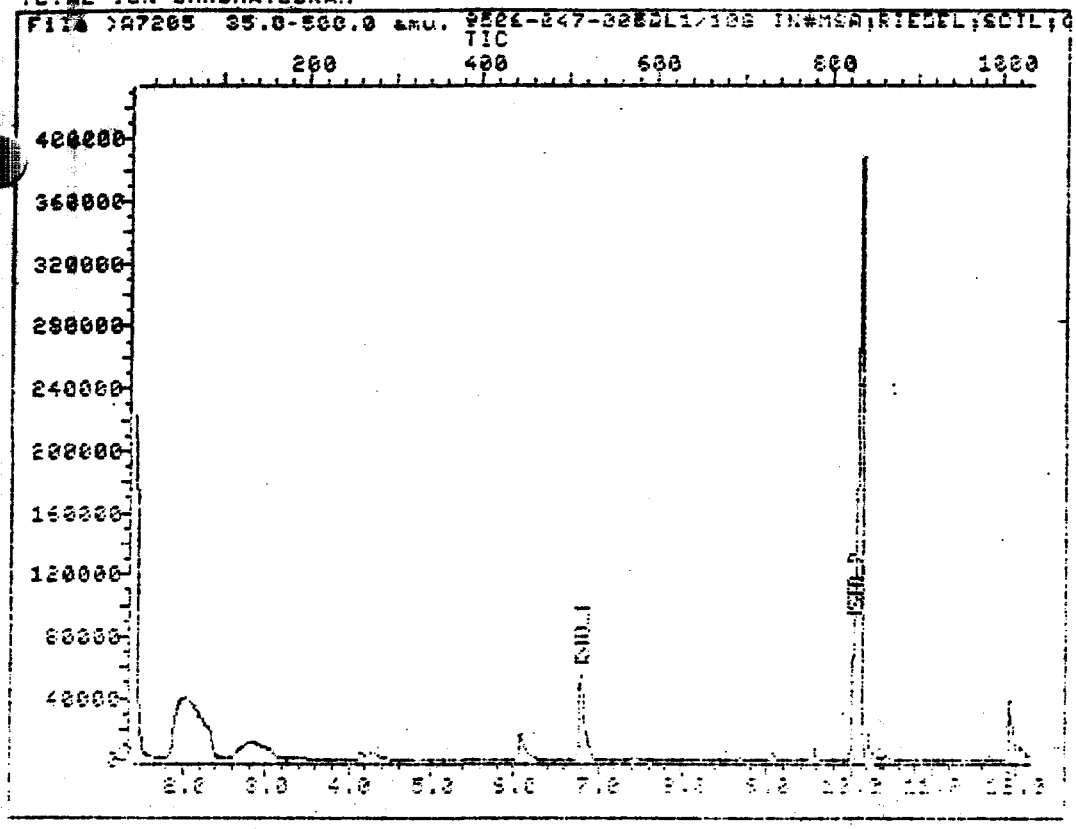


Data File: >A7211::D5 Quant Output File: ^A7211::D2
Name: 9506-047-003DL1/0.2G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WASTE DIL.;(1:10)1:100+ BTL#11
Quant Time: 950610 19:55 Quant ID File: I_ATCP::QT
Injected at: 950610 19:21 Last Calibration: 950607 09:26
Last Qcal Time: 950608 07:49

Compound No : 31
Compound Name : Naphthalene
Scan Number : 840
Retention Time: 10.11 min.
Quant Ion : 128.0
Area : 350846
Concentration : 13172.04 ng/uL
q-value : 98

DMC 6/13/95

TOTAL ION CHROMATOGRAM

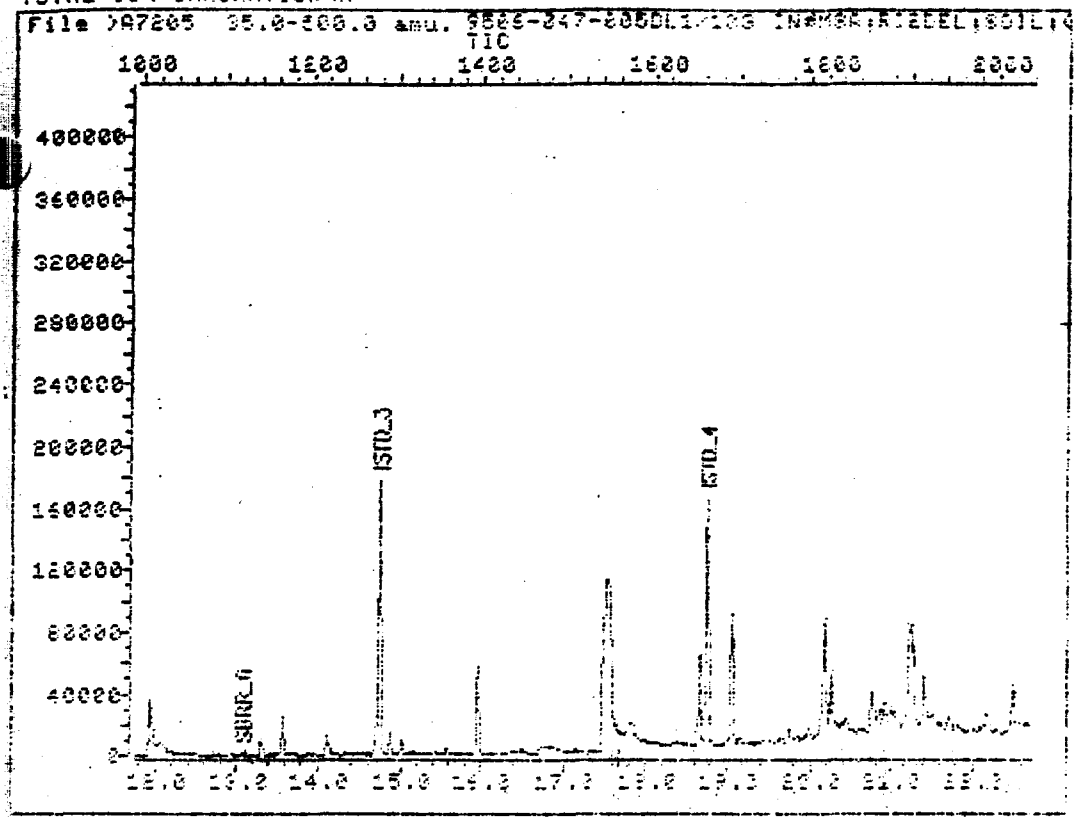


Data File: >A7205::D5 Quant Output File: ^A7205::D2
Name: 9506-047-005DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+ BTL# 5

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 15:32
Injected at: 950610 14:58

TOTAL ION CHROMATOGRAM

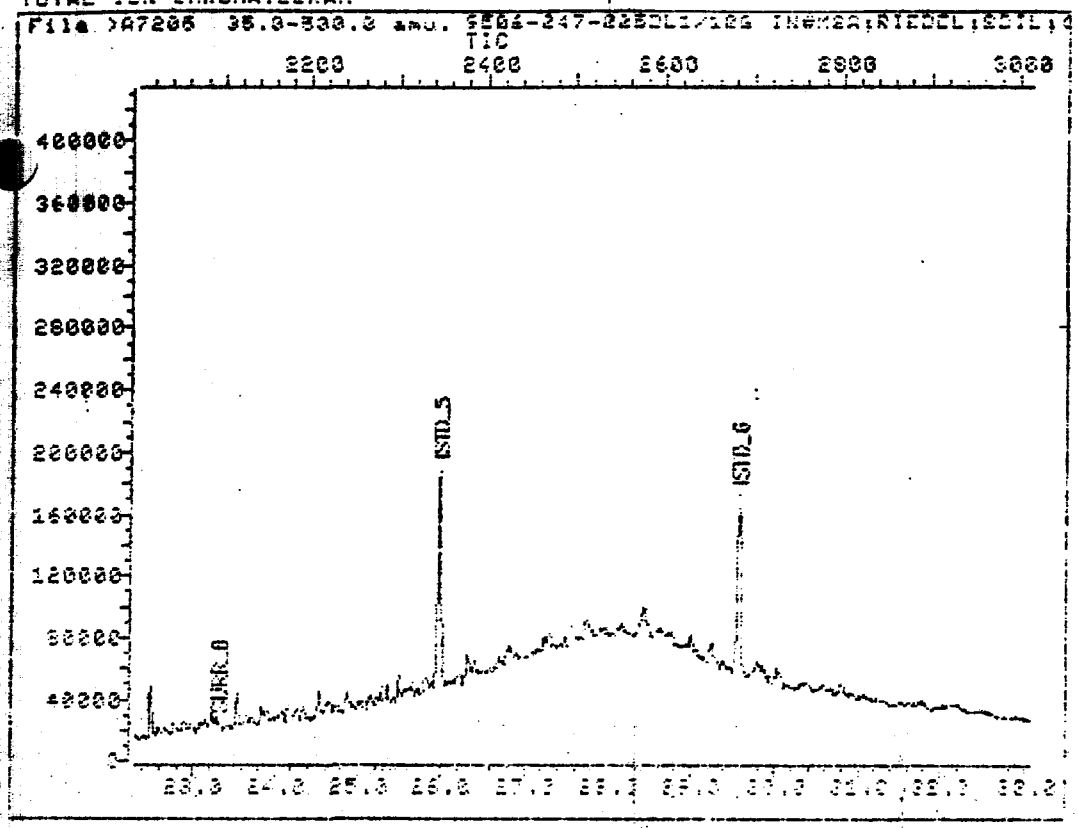


Data File: >A7205::D5 Quant Output File: ^A7205::D2
Name: 9506-047-005DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:5[illegible] BTL# 5

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 15:32
Injected at: 950610 14:58

TOTAL ION CHROMATOGRAM



Data File: >A7205::D5 Quant Output File: ^A7205r:D2
Name: 9506-047-005DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+ BTL# 5

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 15:32
Injected at: 950610 14:58

Operator ID: MSA Quant Rev: 7 Quant Time: 950610 15:32
Output File: ^A7205::D2 Injected at: 950610 14:58
Data File: >A7205::D5 Dilution Factor: 500.0000
Name: 9506-047-005DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+ BTL# 5

LOD=19.5
QF~62,111.8

ID File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	6.79	152.0	41561	40.00	ng/uL	95
5)	Aniline	6.09	93.0	29863	10523.72	ng/uL	100
7)	~~Phenol~~	~~6.43~~	~~94.0~~	~~272~~	~~730.69~~	~~ng/uL~~	~~100~~
8)	~~Benzyl Alcohol~~	~~7.43~~	~~108.0~~	~~1027~~	~~951.93~~	~~ng/uL~~	~~77~~
10)	~~2-Methylphenol~~	~~7.43~~	~~108.0~~	~~1027~~	~~573.32~~	~~ng/uL~~	~~73~~
20)	~~4-Methylphenol~~	~~7.91~~	~~108.0~~	~~121~~	~~16.82~~	~~ng/uL~~	~~69~~
21)	*d8-Naphthalene	10.04	136.0	134271	40.00	ng/uL	97
24)	~~2,4-Dimethylphenol~~	~~9.57~~	~~122.0~~	~~291~~	~~0.00~~	~~ng/uL~~	~~60~~
29)	~~Benzoic Acid~~	~~10.26~~	~~122.0~~	~~153~~	~~1782.73~~	~~ng/uL~~	~~59~~
31)	Naphthalene	10.13	128.0	576726	103989.6	ng/uL	99
34)	~~4-Chloroaniline~~	~~10.47~~	~~127.0~~	~~474~~	~~1030.16~~	~~ng/uL~~	~~95~~
35)	~~2-Methylnaphthalene~~	~~11.97~~	~~115.0~~	~~359~~	~~0.00~~	~~ng/uL~~	~~97~~
36)	*d10-Acenaphthene	14.74	164.0	86896	40.00	ng/uL	94
38)	~~2,4,6-Trichlorophenol~~	~~12.94~~	~~196.0~~	~~138~~	~~1969.75~~	~~ng/uL~~	~~74~~
42)	~~2-Fluorobiphenyl~~	~~13.99~~	~~172.0~~	~~347~~	~~609.95~~	~~ng/uL~~	~~97~~
43)	~~AZOBENZENE~~	~~16.07~~	~~77.0~~	~~366~~	~~2644.64~~	~~ng/uL~~	~~91~~
45)	~~4-Nitrophenol~~	~~15.58~~	~~109.0~~	~~26~~	~~1618.61~~	~~ng/uL~~	~~70~~
46)	~~Fluorene~~	~~16.24~~	~~166.0~~	~~159~~	~~1224.16~~	~~ng/uL~~	~~95~~
57)	*d10-Phenanthrene	18.76	188.0	129846	40.00	ng/uL	98
58)	~~N-Nitrosodiphenylamine (1)~~	~~16.79~~	~~169.0~~	~~371~~	~~1602.03~~	~~ng/uL~~	~~92~~
59)	~~Phenanthrene~~	~~18.80~~	~~178.0~~	~~1677~~	~~1769.22~~	~~ng/uL~~	~~91~~
60)	~~Di-n-Butylphthalate~~	~~20.26~~	~~149.0~~	~~306~~	~~1955.09~~	~~ng/uL~~	~~86~~
63)	~~BENZIDINE~~	~~22.66~~	~~184.0~~	~~136~~	~~1961.57~~	~~ng/uL~~	~~100~~
71)	*d12-Chrysene	25.99	240.0	129557	40.00	ng/uL	91
74)	~~Pyrene~~	~~22.60~~	~~202.0~~	~~2073~~	~~2115.65~~	~~ng/uL~~	~~95~~
76)	~~Terphenyl-d14~~	~~23.32~~	~~244.0~~	~~544~~	~~0.00~~	~~ng/uL~~	~~84~~
77)	~~Benzo(a)Anthracene~~	~~26.04~~	~~228.0~~	~~1779~~	~~1884.88~~	~~ng/uL~~	~~91~~
78)	~~Chrysene~~	~~26.04~~	~~228.0~~	~~1779~~	~~767.89~~	~~ng/uL~~	~~92~~
80)	*d12-Perylene	29.58	264.0	126074	40.00	ng/uL	96
82)	~~Benzo(b)Fluoranthene~~	~~28.70~~	~~252.0~~	~~957~~	~~3406.25~~	~~ng/uL~~	~~66~~
83)	~~Benzo(k)Fluoranthene~~	~~28.70~~	~~252.0~~	~~957~~	~~7701.52~~	~~ng/uL~~	~~66~~
84)	~~Benzo(a)Pyrene~~	~~29.43~~	~~252.0~~	~~957~~	~~3493.55~~	~~ng/uL~~	~~94~~
86)	~~Indeno(1,2,3-cd)Pyrene~~	~~31.50~~	~~276.0~~	~~163~~	~~2120.98~~	~~ng/uL~~	~~54~~
87)	~~Benzo(g,h,i)Perylene~~	~~32.38~~	~~276.0~~	~~531~~	~~2512.03~~	~~ng/uL~~	~~74~~

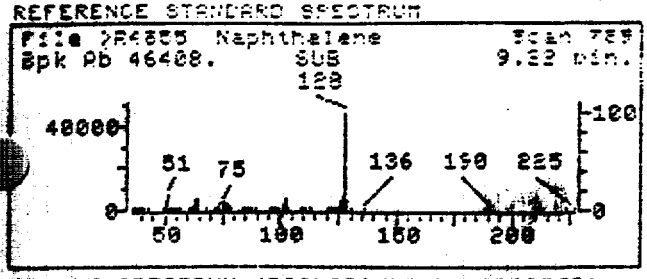
* Compound is ISTD

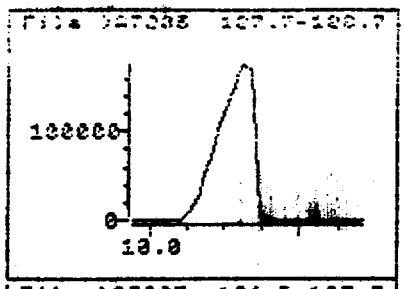
sum. dil. out.

DMC 6/12/95

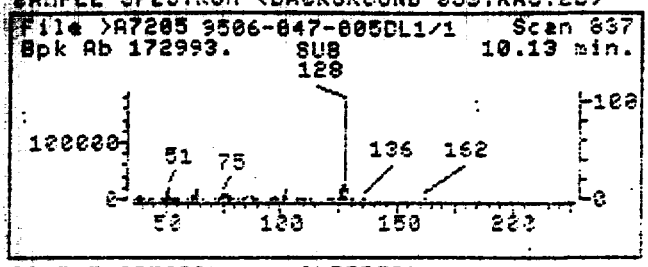
QF (62,111.8)
final

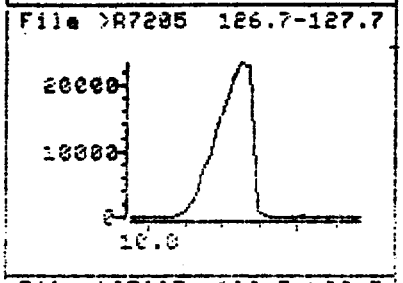
REFERENCE STANDARD SPECTRUM



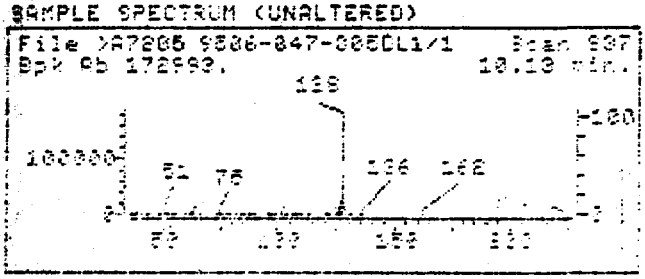


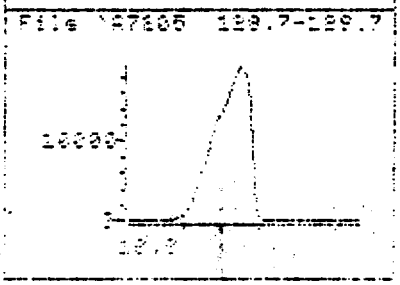
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)



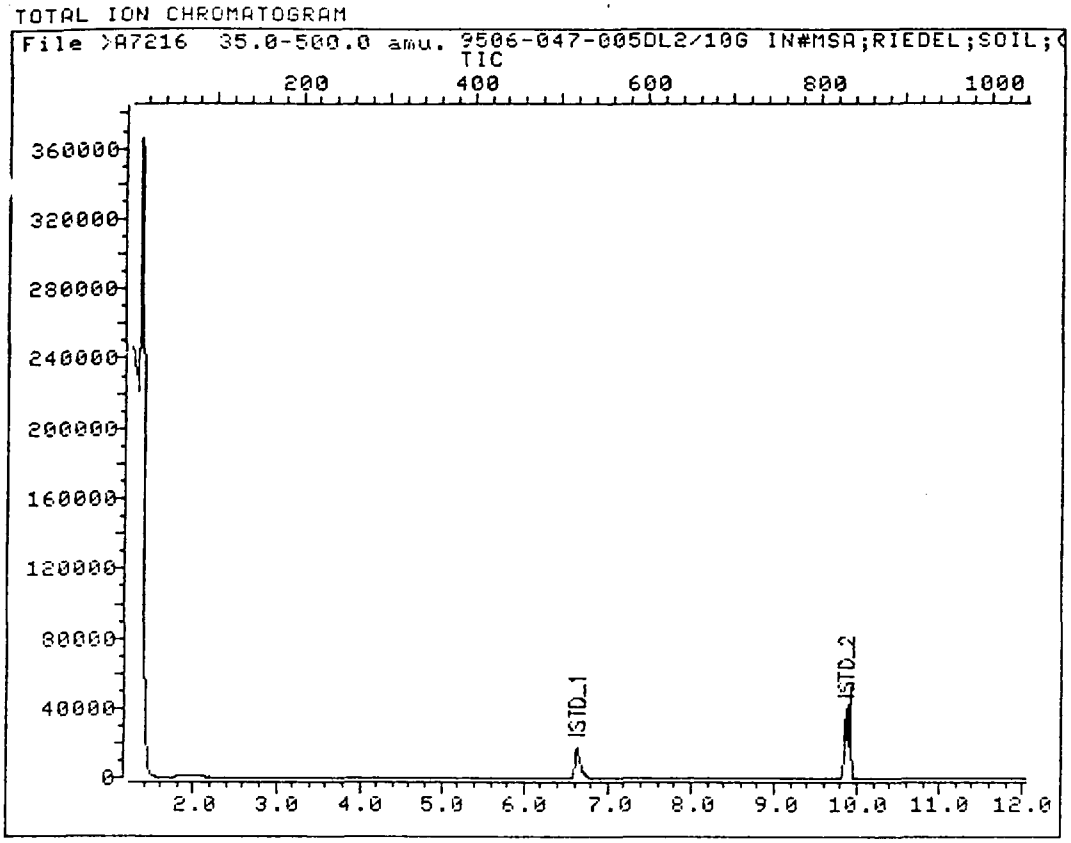


Data File: >A7205::D5 Quant Output File: ^A7205::D2
Name: 9506-047-005DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+ RTLM 5
Quant Time: 950610 15:32 Quant ID File: I_ATCP::QT
Injected at: 950610 14:58 Last Calibration: 950607 09:26
Last Qcal Time: 950609 07:49

Compound No : 31
Compound Name : Naphthalene
Scan Number : 837
Retention Time: 10.13 min.
Quant Ion : 128.0
Area : 576726
Concentration : 103989.6 ng/uL
q-value : 99

DMC 6/12/95

TOTAL ION CHROMATOGRAM

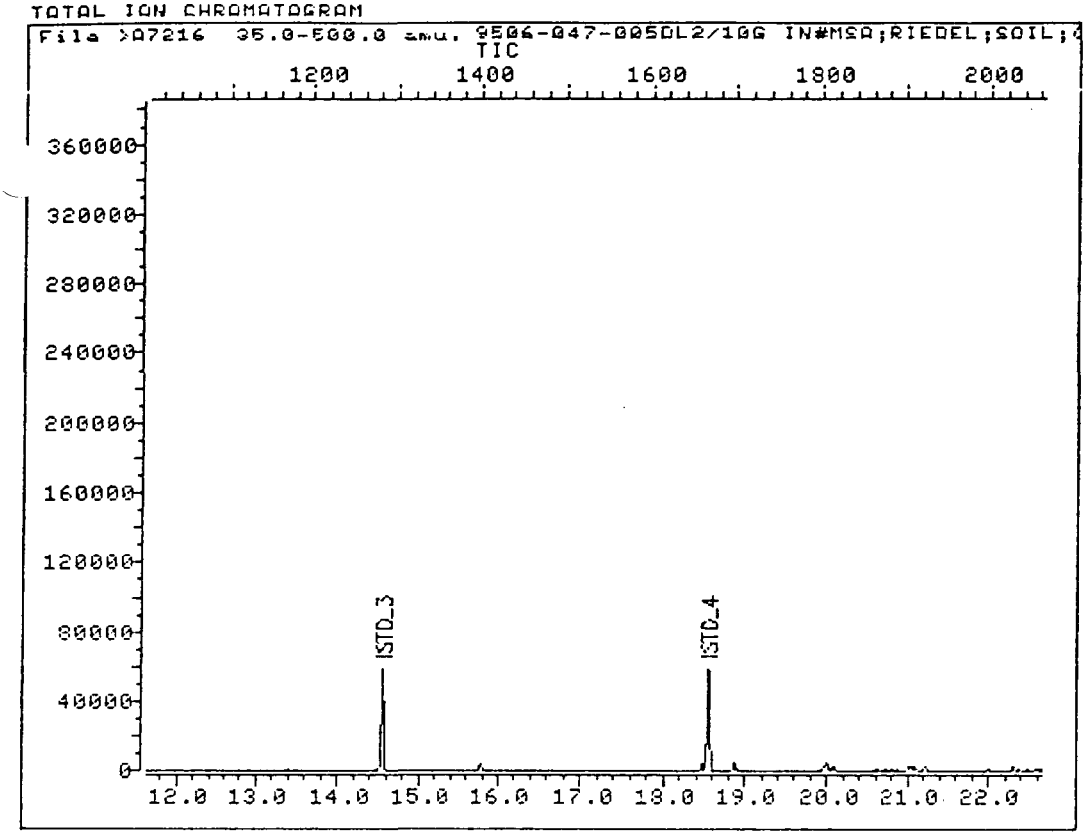


Data File: >A7216::D4 Quant Output File: ^A7216::D2
Name: 9506-047-005DL2/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:50)1:2500+ BTL# 2

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950612 08:43

Operator ID: MSA
Quant Time : 950612 10:50
Injected at: 950612 10:15

TOTAL ION CHROMATOGRAM

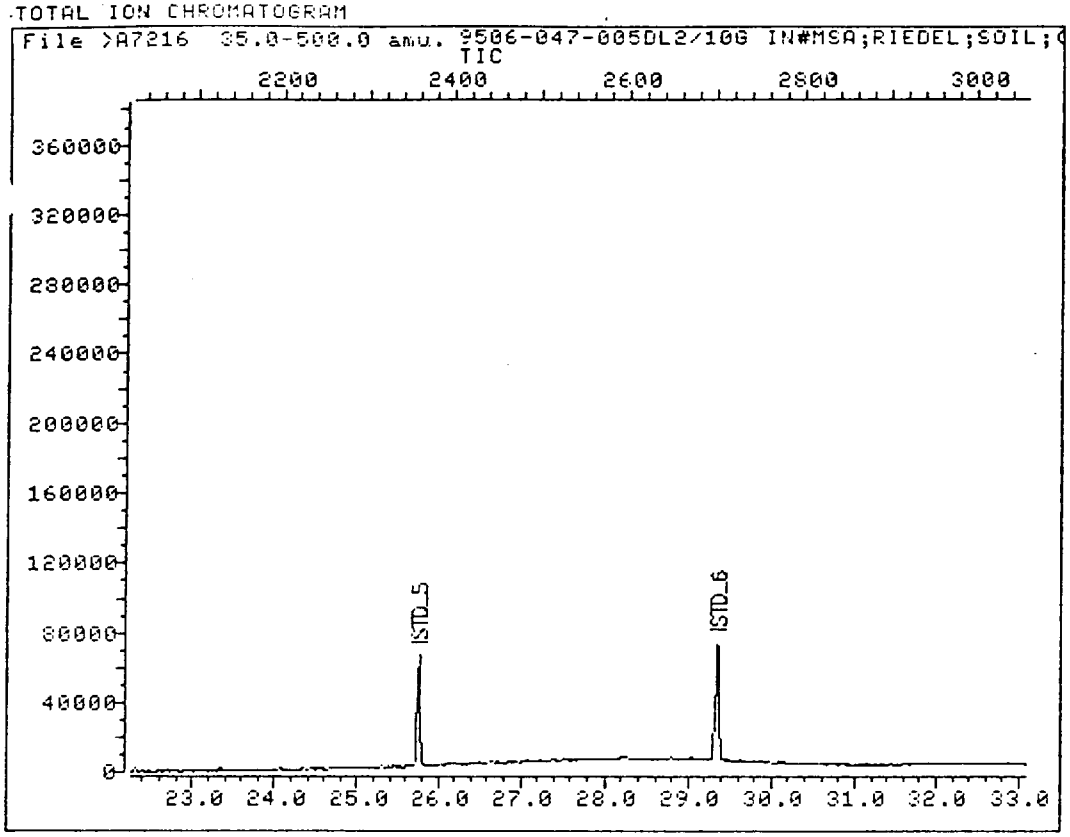


Data File: >A7216::D4 Quant Output File: ^A7216::D2
Name: 9506-047-005DL2/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:50)1:2500+ BTL# 2

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950612 08:43

Operator ID: MSA
Quant Time : 950612 10:50
Injected at: 950612 10:15

TOTAL ION CHROMATOGRAM



Data File: >A7216::D4 Quant Output File: ^A7216::D2
Name: 9506-047-005DL2/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:50)1:2500+ BTL# 2

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950612 08:43

Operator ID: MSA
Quant Time : 950612 10:50
Injected at: 950612 10:15

Operator ID: MSA Quant Rev: 7 Quant Time: 950612 10:50
Output File: ^A7216::D2 Injected at: 950612 10:15
Data File: >A7216::D4 Dilution Factor: 2500.000
Name: 9506-047-005DL2/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:50)1:2500+ BTL# 2

LOD = 19.5
DF = 310,559

ID File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950612 08:43

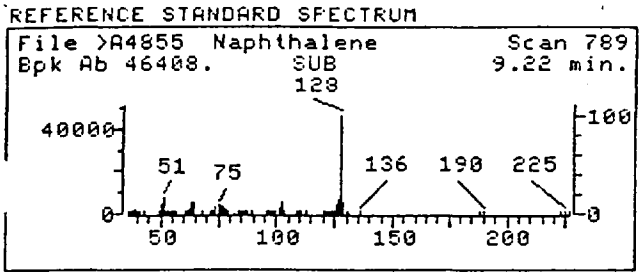
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	6.62	152.0	13301	40.00	ng/uL	98
5)	Aniline	6.09	93.0	563	12403.38	ng/uL	100
21)	*d8-Naphthalene	9.86	136.0	43368	40.00	ng/uL	98
31)	Naphthalene	9.91	128.0	49949	118106.8	ng/uL	98
36)	*d10-Acenaphthene	14.56	164.0	28553	40.00	ng/uL	98
57)	*d10-Phenanthrene	18.55	188.0	47533	40.00	ng/uL	99
72)	*d12-Chrysene	25.76	240.0	59761	40.00	ng/uL	90
80)	*d12-Perylene	29.36	264.0	78711	40.00	ng/uL	98

* Compound is ISTD

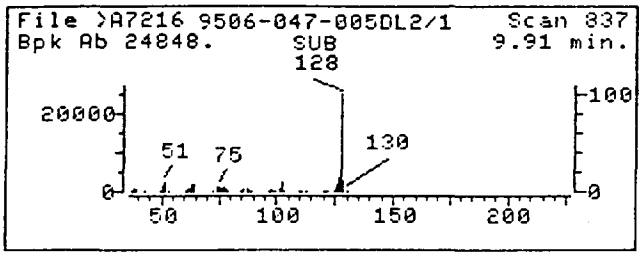
DILUF (310,559)
Final

DMC 6/13/95

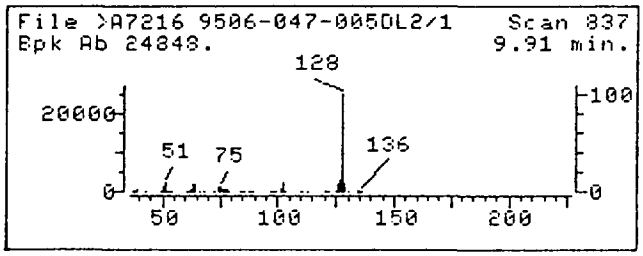
REFERENCE STANDARD SPECTRUM

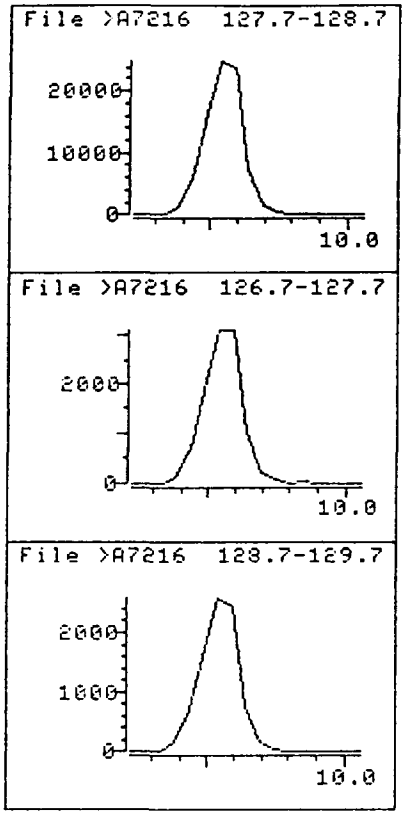


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



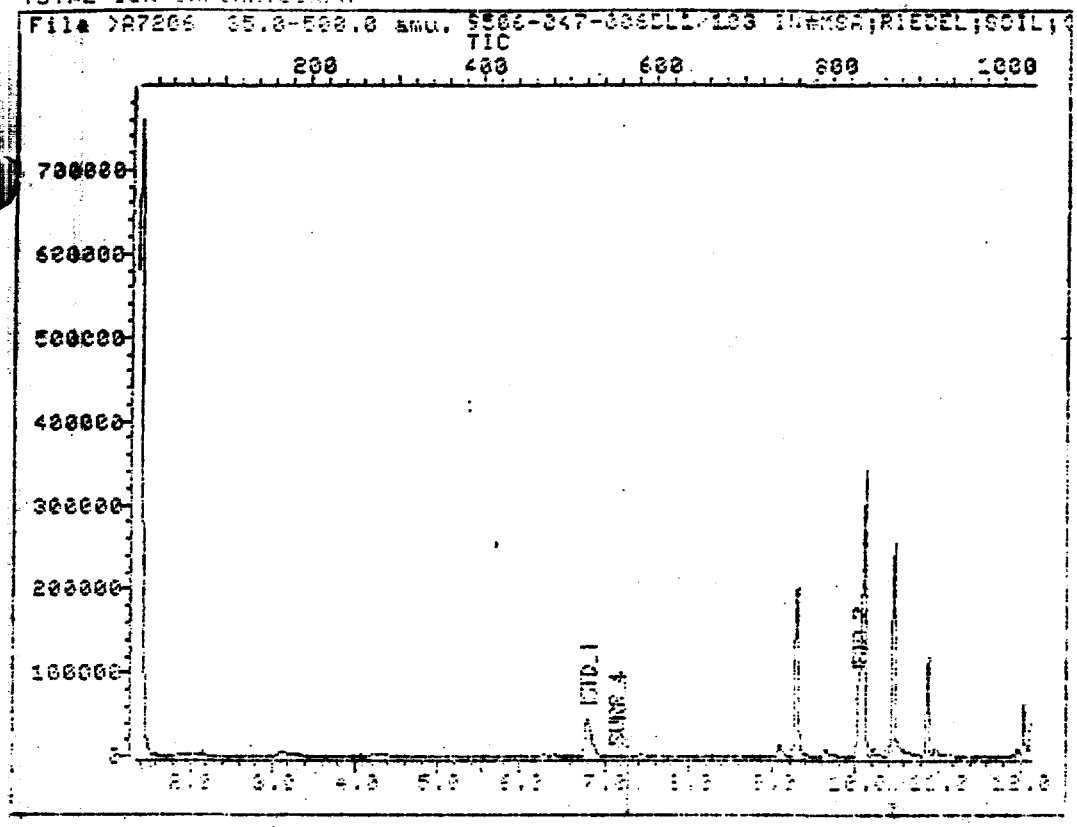


Data File: >A7216::D4 Quant Output File: ^A7216::D2
Name: 9506-047-005DL2/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:50)1:2500+ BTL# 2
Quant Time: 950612 10:50 Quant ID File: I_ATCP::QT
Injected at: 950612 10:15 Last Calibration: 950607 09:26
Last Qcal Time: 950612 08:43

Compound No : 31
Compound Name : Naphthalene
Scan Number : 837
Retention Time: 9.91 min.
Quant Ion : 128.0
Area : 49949
Concentration : 118106.8 ng/uL
q-value : 98

DMC 6/13/95

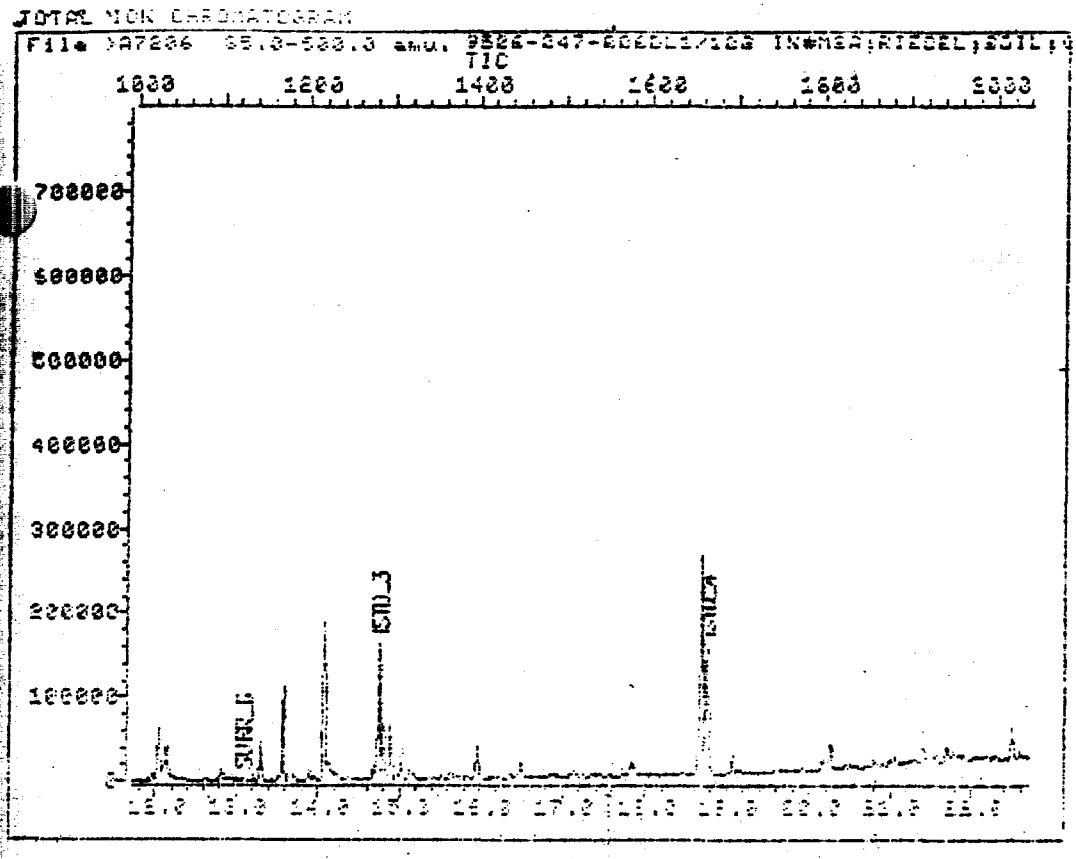
TOTAL ION CHROMATOGRAM



Data File: >A7206::D5 Quant Output File: ^A7206::D2
Name: 9506-047-006DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500- RTL# 6

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 16:16
Injected at: 950610 15:42

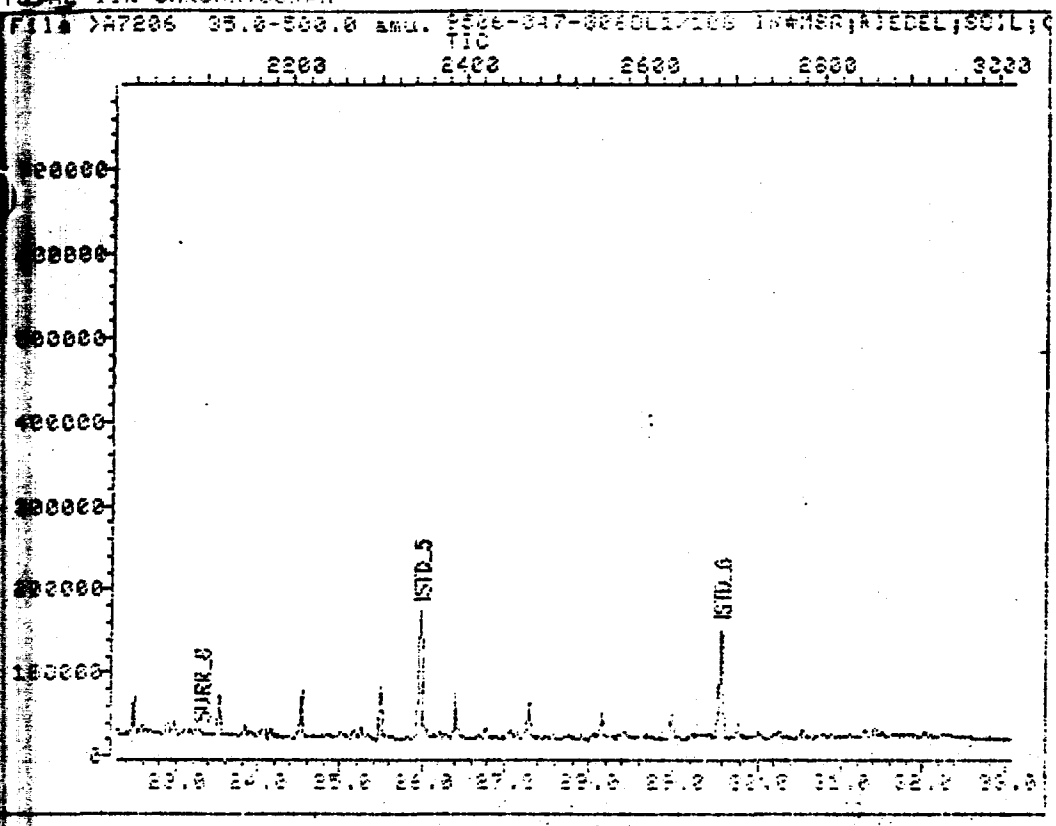


Data File: >A7206::D5 Quant Output File: ^A7206::D2
Name: 9506-047-006DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+ BTL# 6

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 16:16
Injected at: 950610 15:42

TOTAL ION CHROMATOGRAM



Data File: >A7206::D5 Quant Output File: ^A7206::D2
Name: 9506-047-006DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+ BTL# 6

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 16:16
Injected at: 950610 15:42

Operator ID: MSA
Output File: ^A7206::D2
Data File: >A7206::D5
Name: 9506-047-006DL1/10G
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+

Quant Rev: 7
Quant Time: 950610 16:16
Injected at: 950610 15:42
Dilution Factor: 500.0000
Instrument ID: MSA
BTL# 6

LOD = 18.2
QF - 01,124.7

ID File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26
Last Qcal Time: 950608 07:49

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	6.80	152.0	39108	40.00	ng/uL	94
~~5)~~	~~Aniline~~	~~6.26~~	~~93.0~~	~~8317~~	~~2663.01~~	~~ng/uL~~	~~100~~
~~7)~~	~~Phenol~~	~~6.49~~	~~94.0~~	~~136~~	~~759.01~~	~~ng/uL~~	~~100~~
~~12)~~	~~Benzyl Alcohol~~	~~7.45~~	~~108.0~~	~~2346~~	~~2223.73~~	~~ng/uL~~	~~99~~
~~14)~~	~~1,2-Dichlorobenzene d4~~	~~7.41~~	~~150.0~~	~~111~~	~~553.05~~	~~ng/uL~~	~~54~~
~~16)~~	~~2-Methylphenol~~	~~7.45~~	~~108.0~~	~~3319~~	~~2013.09~~	~~ng/uL~~	~~88~~
21)	*d8-Naphthalene	10.04	136.0	130074	40.00	ng/uL	99
~~26)~~	~~2,4-Dimethylphenol~~	~~9.62~~	~~122.0~~	~~151~~	~~0.00~~	~~ng/uL~~	~~59~~
~~27)~~	~~Benzoic Acid~~	~~10.26~~	~~122.0~~	~~1096~~	~~2292.00~~	~~ng/uL~~	~~84~~
~~30)~~	~~bis(2Chloroethoxy)Methane~~	~~9.62~~	~~93.0~~	~~375~~	~~0.00~~	~~ng/uL~~	~~70~~
31)	Naphthalene	10.12	128.0	427276	76082.87	ng/uL	98
32)	4-Chloroaniline	10.48	127.0	209330	104625.5	ng/uL E	91
~~33)~~	~~4-Chloro-3-Methylphenol~~	~~10.44~~	~~107.0~~	~~240~~	~~570.79~~	~~ng/uL~~	~~44~~
~~35)~~	~~2-Methylnaphthalene~~	~~11.37~~	~~141.0~~	~~4755~~	~~761.09~~	~~ng/uL~~	~~97~~
36)	*d10-Acenaphthene	14.75	164.0	83710	40.00	ng/uL	95
~~37)~~	~~2,4,6-Trichlorophenol~~	~~12.96~~	~~196.0~~	~~765~~	~~1015.71~~	~~ng/uL~~	~~97~~
~~38)~~	~~2-Fluorobiphenyl~~	~~13.09~~	~~172.0~~	~~314~~	~~644.05~~	~~ng/uL~~	~~94~~
~~39)~~	~~AZOBENZENE~~	~~14.62~~	~~77.0~~	~~352~~	~~2044.67~~	~~ng/uL~~	~~80~~
~~42)~~	~~5-Nitroaniline~~	~~14.80~~	~~138.0~~	~~150~~	~~6340.26~~	~~ng/uL~~	~~53~~
~~43)~~	~~Acenaphthene~~	~~14.82~~	~~153.0~~	~~589~~	~~7419.06~~	~~ng/uL~~	~~67~~
~~44)~~	~~4-Nitrophenol~~	~~16.66~~	~~109.0~~	~~63~~	~~2679.66~~	~~ng/uL~~	~~39~~
~~45)~~	~~Dibenzofuran~~	~~15.22~~	~~168.0~~	~~271~~	~~646.64~~	~~ng/uL~~	~~56~~
~~46)~~	~~2,4-Dinitrotoluene~~	~~15.47~~	~~165.0~~	~~270~~	~~764.54~~	~~ng/uL~~	~~44~~
~~55)~~	~~Fluorene~~	~~16.23~~	~~166.0~~	~~599~~	~~1251.14~~	~~ng/uL~~	~~76~~
57)	*d10-Phenanthrene	18.76	188.0	131967	40.00	ng/uL	97
~~58)~~	~~N-Nitrosodiphenylamine (1)~~	~~16.79~~	~~169.0~~	~~1383~~	~~4752.19~~	~~ng/uL~~	~~70~~
~~59)~~	~~Phenanthrene~~	~~18.80~~	~~178.0~~	~~7043~~	~~2488.05~~	~~ng/uL~~	~~97~~
~~60)~~	~~Anthracene~~	~~18.95~~	~~178.0~~	~~986~~	~~2986.34~~	~~ng/uL~~	~~96~~
~~63)~~	~~Carbazole~~	~~19.74~~	~~167.0~~	~~166~~	~~376.93~~	~~ng/uL~~	~~98~~
~~69)~~	~~Fluoranthene~~	~~22.03~~	~~202.0~~	~~1179~~	~~2424.35~~	~~ng/uL~~	~~95~~
~~70)~~	~~BENZIDINE~~	~~22.56~~	~~184.0~~	~~161~~	~~8258.56~~	~~ng/uL~~	~~100~~
72)	*d12-Chrysene	25.99	240.0	144020	40.00	ng/uL	91
~~73)~~	~~Pyrene~~	~~22.60~~	~~202.0~~	~~5030~~	~~2742.17~~	~~ng/uL~~	~~95~~
~~74)~~	~~Terphenyl d14~~	~~23.32~~	~~244.0~~	~~939~~	~~0.00~~	~~ng/uL~~	~~88~~
~~75)~~	~~Butylbenzylphthalate~~	~~24.91~~	~~149.0~~	~~350~~	~~1220.68~~	~~ng/uL~~	~~46~~
~~76)~~	~~3,3'-Dichlorobenzidine~~	~~26.13~~	~~252.0~~	~~145~~	~~2595.82~~	~~ng/uL~~	~~93~~
~~77)~~	~~Benzo(a)Anthracene~~	~~25.36~~	~~228.0~~	~~4501~~	~~1656.72~~	~~ng/uL~~	~~78~~
~~78)~~	~~Chrysene~~	~~26.03~~	~~228.0~~	~~8613~~	~~1546.23~~	~~ng/uL~~	~~95~~
80)	*d12-Perylene	29.58	264.0	136936	40.00	ng/uL	96
~~81)~~	~~Benzo(b)Fluoranthene~~	~~28.55~~	~~252.0~~	~~254~~	~~2391.90~~	~~ng/uL~~	~~41~~

QDM
9D14F (01,124.7)
from (

Done 6/12/95

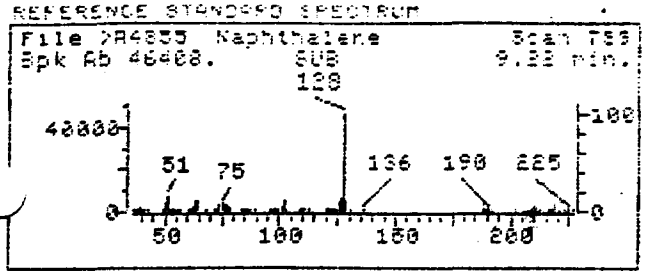
Operator ID: MSA Quant Rev: 7 Quant Time: 950610 16:16
Output File: ^A7206::D2 Injected at: 950610 15:42
Data File: >A7206::D5 Dilution Factor: 500.0000
Name: 9506-047-006DL1/10G Instrument ID: MSA
c: IN#MSA;RIEDEL;SOIL;(1:10)1:500+ BTL# 6

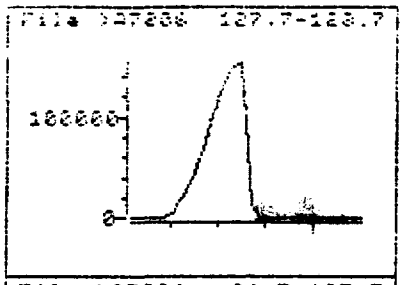
ID File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Compound	R.T.	Q ion	Area	Conc	Units	q
~~81) Benzo(b)Fluoranthene~~	~~28.68~~	~~252.0~~	~~1831~~	~~3561.11~~	~~ng/uL~~	~~96~~
~~82) Benzo(k)Fluoranthene~~	~~28.55~~	~~252.0~~	~~254~~	~~7724.57~~	~~ng/uL~~	~~41~~
~~83) Benzo(k)Fluoranthene~~	~~28.68~~	~~252.0~~	~~1831~~	~~7670.37~~	~~ng/uL~~	~~96~~
~~84) Benzo(a)Pyrene~~	~~29.43~~	~~252.0~~	~~2825~~	~~3661.22~~	~~ng/uL~~	~~99~~
~~85) Indeno(1,2,3-cd)Pyrene~~	~~31.30~~	~~276.0~~	~~367~~	~~2147.56~~	~~ng/uL~~	~~56~~
~~86) Dibenzo(a,h)Anthracene~~	~~31.90~~	~~278.0~~	~~478~~	~~2157.01~~	~~ng/uL~~	~~49~~
~~87) Benzo(g,h,i)Perylene~~	~~32.00~~	~~276.0~~	~~1686~~	~~2054.97~~	~~ng/uL~~	~~.03~~

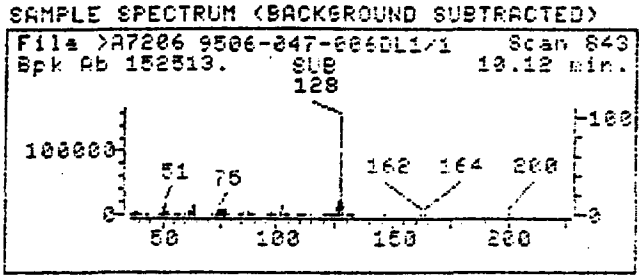
* Compound is ISTD

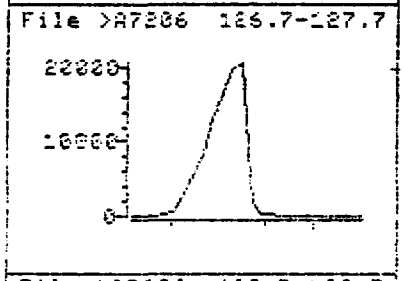
REFERENCE STANDARD SPECTRUM



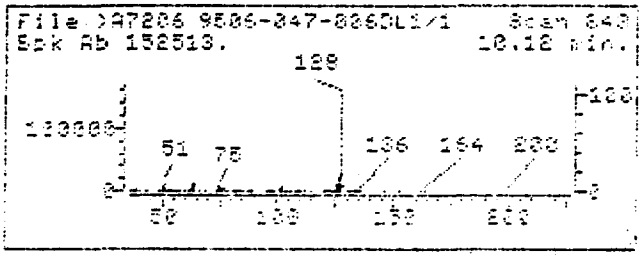


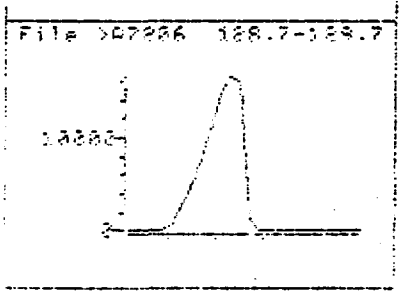
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)



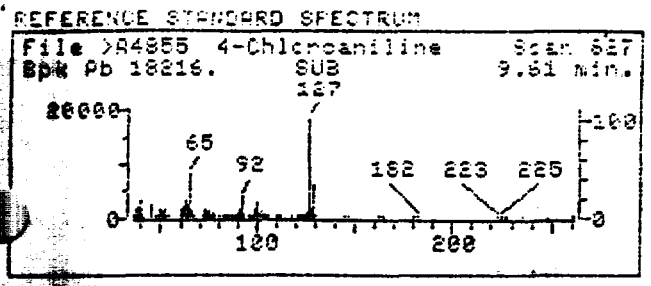


Data File: >A7206::D5 Quant Output File: ^A7206::D2
Name: 9506-047-006DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+ STL# 6
Quant Time: 950610 16:16 Quant ID File: I_ATCP::QT
Injected at: 950610 15:42 Last Calibration: 950607 09:26
Last Qcal Time: 950608 07:49

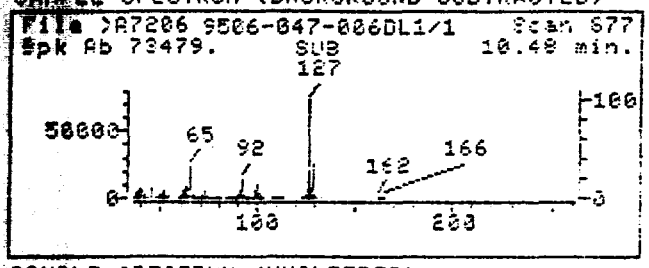
Compound No : 31
Compound Name : Naphthalene
Scan Number : 843
Retention Time: 10.12 min.
Quant Ion : 128.0
Area : 427276
Concentration : 76082.87 ng/uL
q-value : 98

DMC 6/12/95

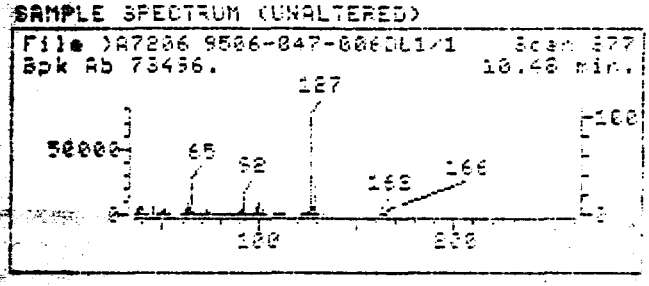
REFERENCE STANDARD SPECTRUM

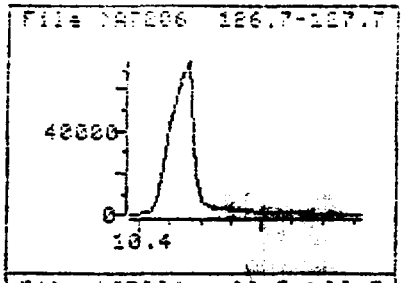


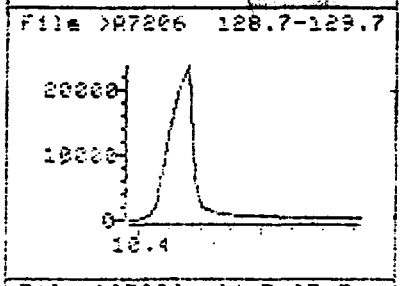
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

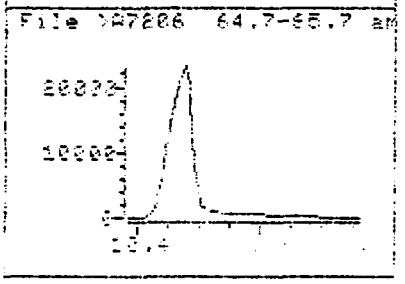


SAMPLE SPECTRUM (UNALTERED)







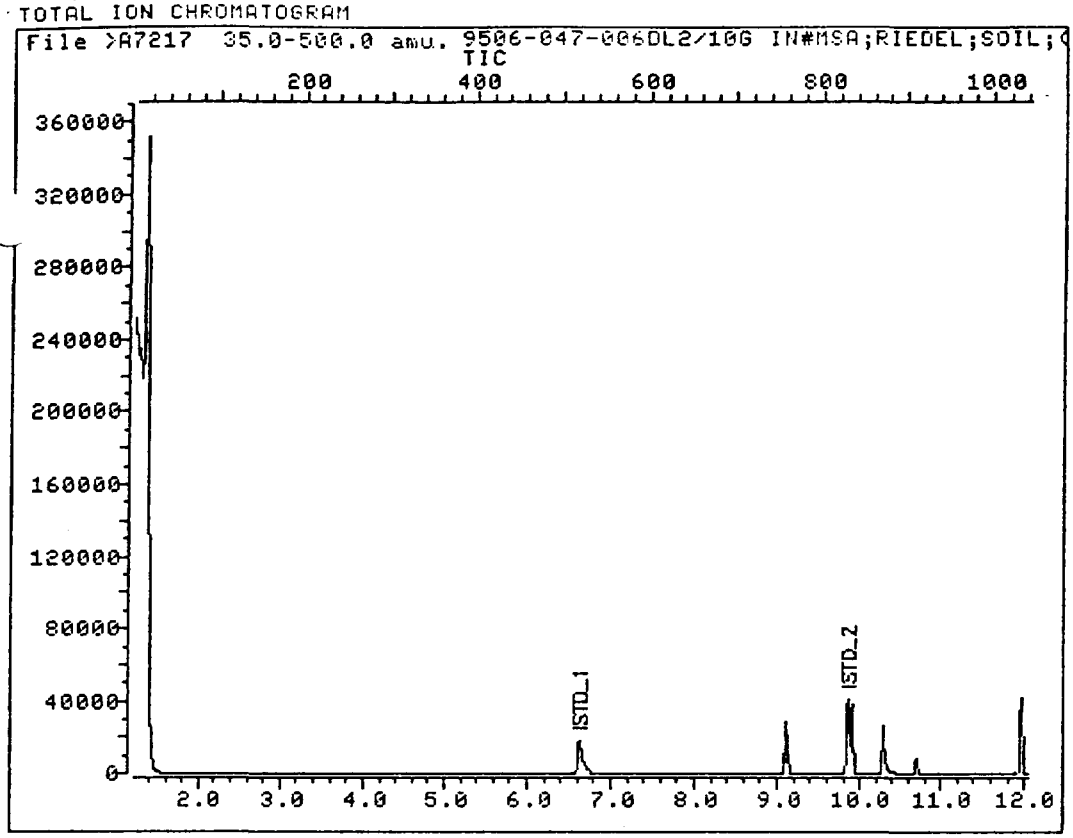


Data File: >A7206::D5 Quant Output File: ^A7206::D2
Name: 9506-047-006DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+ BTL# 6
Quant Time: 950610 16:16 Quant ID File: I_ATCP::CT
Injected at: 950610 15:42 Last Calibration: 950607 09:25
Last Qcal Time: 950608 07:49

Compound No : 32
Compound Name : 4-Chloroaniline
Scan Number : 877
Retention Time: 10.48 min.
Quant Ion : 127.0
Area : 209330
Concentration : 104625.5 ng/uL
q-value : 91

DMC 6/12/95

TOTAL ION CHROMATOGRAM

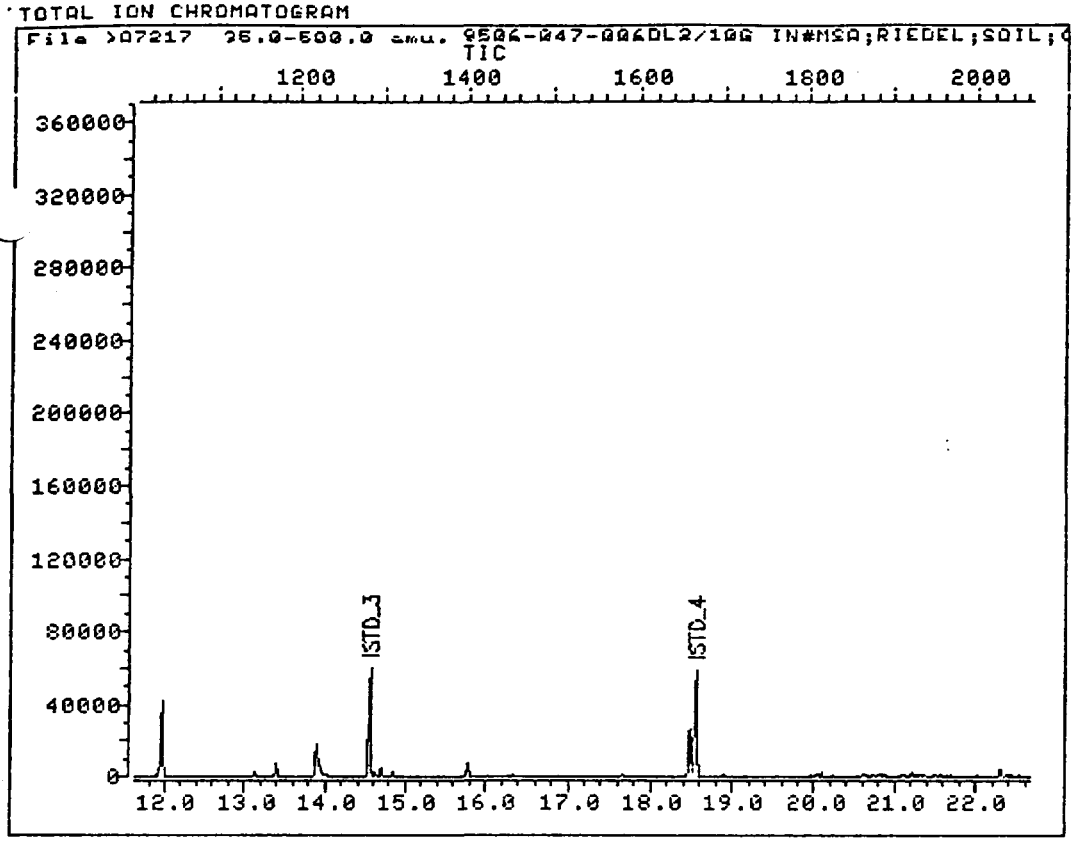


Data File: >A7217::D4 Quant Output File: ^A7217::D2
Name: 9506-047-006DL2/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:50)1:2500+ BTL# 3

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950612 08:43

Operator ID: MSA
Quant Time : 950612 11:34
Injected at: 950612 11:00

TOTAL ION CHROMATOGRAM

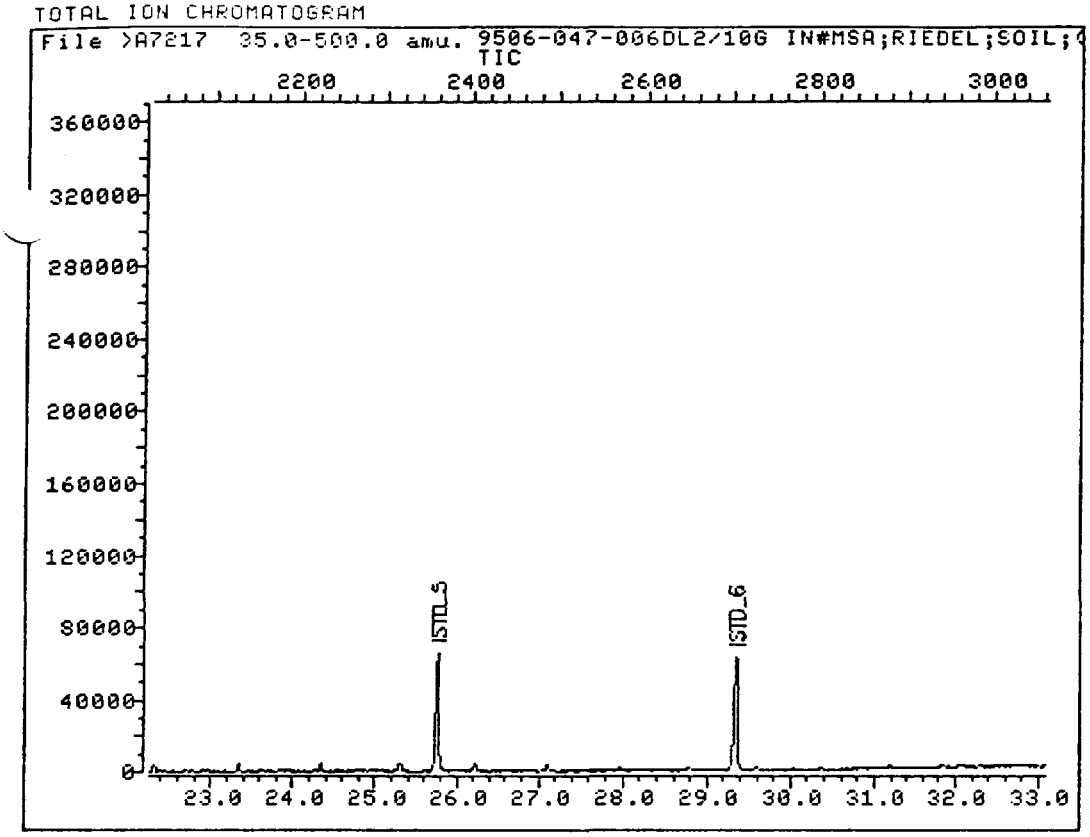


Data File: >A7217::D4 Quant Output File: ^A7217::D2
Name: 9506-047-006DL2/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:50)1:2500+ BTL# 3

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950612 08:43

Operator ID: MSA
Quant Time : 950612 11:34
Injected at: 950612 11:00

TOTAL ION CHROMATOGRAM



Data File: >A7217::D4 Quant Output File: ^A7217::D2
Name: 9506-047-006DL2/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:50)1:2500+ BTL# 3

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950612 08:43

Operator ID: MSA
Quant Time : 950612 11:34
Injected at: 950612 11:00

Operator ID: MSA Quant Rev: 7 Quant Time: 950612 11:34
Output File: ^A7217::D2 Injected at: 950612 11:00
Data File: >A7217::D4 Dilution Factor: 2500.000
Name: 9506-047-006DL2/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:50)1:2500+ BTL# 3

ID File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26

LOD= 18.2
QF= 305,623.5

Last Qcal Time: 950612 08:43

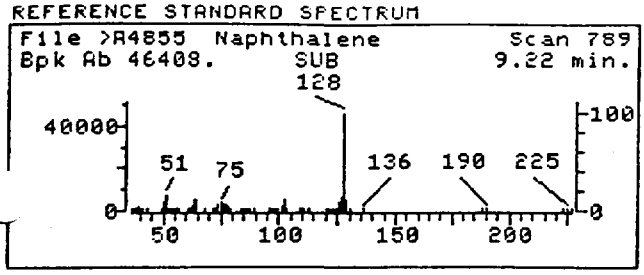
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	6.63	152.0	12959	40.00	ng/uL	94
21)	*d8-Naphthalene	9.86	136.0	41325	40.00	ng/uL	99
31)	Naphthalene	9.91	128.0	34869	~~83854.67~~	ng/uL	98
32)	4-Chloroaniline	10.29	127.0	21656	130752.9	ng/uL	91
~~34)~~	~~4-Chloro-3-Methylphenol~~	~~11.96~~	~~107.0~~	~~183~~	~~3496.83~~	~~ng/uL~~	~~49~~
36)	*d10-Acenaphthene	14.56	164.0	26694	40.00	ng/uL	97
57)	*d10-Phenanthrene	18.56	188.0	47855	40.00	ng/uL	99
~~65)~~	~~Phenanthrene~~	~~18.61~~	~~178.0~~	~~500~~	~~8529.88~~	~~ng/uL~~	~~91~~
72)	*d12-Chrysene	25.77	240.0	59226	40.00	ng/uL	88
~~73)~~	~~Pyrene~~	~~22.39~~	~~202.0~~	~~719~~	~~10319.94~~	~~ng/uL~~	~~93~~
~~77)~~	~~Benzo(a)Anthracene~~	~~25.82~~	~~228.0~~	~~929~~	~~7071.74~~	~~ng/uL~~	~~89~~
~~78)~~	~~Chrysene~~	~~25.82~~	~~228.0~~	~~929~~	~~4099.11~~	~~ng/uL~~	~~92~~
80)	*d12-Perylene	29.35	264.0	75014	40.00	ng/uL	97
~~84)~~	~~Benzo(a)Pyrene~~	~~29.20~~	~~252.0~~	~~337~~	~~17269.05~~	~~ng/uL~~	~~89~~
~~87)~~	~~Benzo(g,h,i)Perylene~~	~~32.08~~	~~276.0~~	~~360~~	~~12604.87~~	~~ng/uL~~	~~84~~

* Compound is ISTD

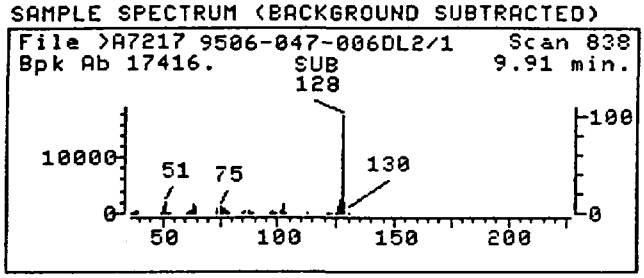
QDW
QDWF (305,623.5)
Form 1

DMC 6/13/95

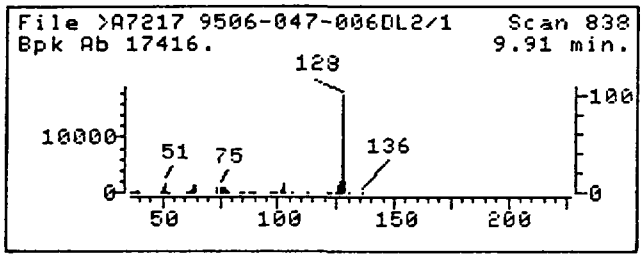
REFERENCE STANDARD SPECTRUM

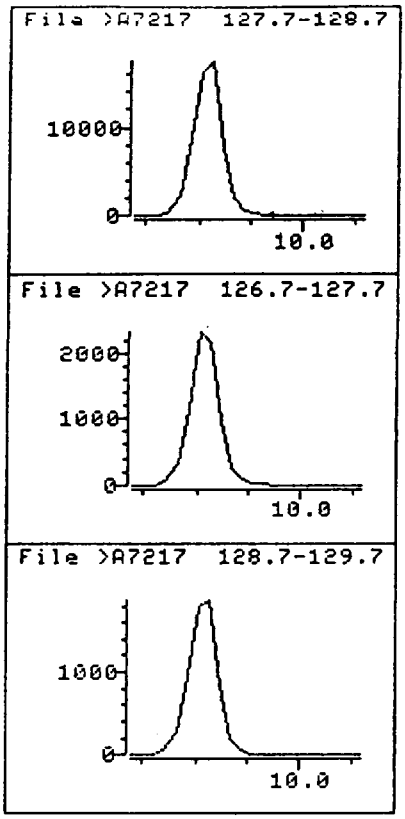


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



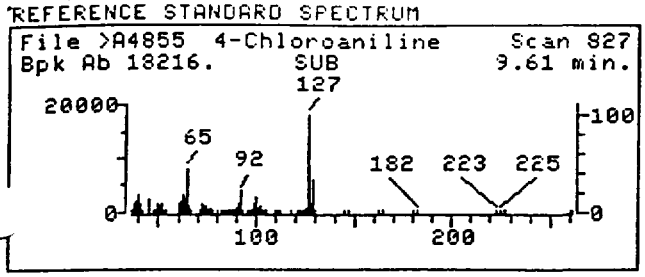


Data File: >A7217::D4 Quant Output File: ^A7217::D2
Name: 9506-047-006DL2/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:50)1:2500+ BTL# 3
Quant Time: 950612 11:34 Quant ID File: I_ATCP::QT
Injected at: 950612 11:00 Last Calibration: 950607 09:26
Last Qcal Time: 950612 08:43

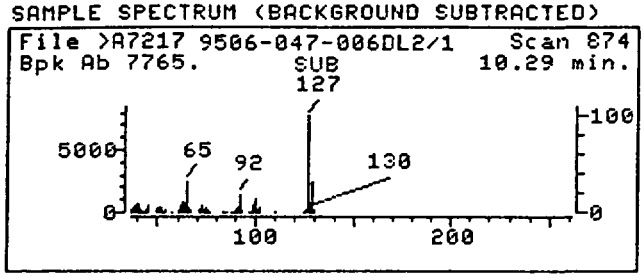
Compound No : 31
Compound Name : Naphthalene
Scan Number : 838
Retention Time: 9.91 min.
Quant Ion : 128.0
Area : 34869
Concentration : 83854.67 ng/uL
q-value : 98

DMC 6/13/95

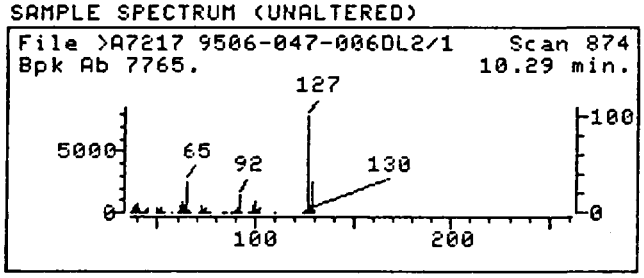
REFERENCE STANDARD SPECTRUM

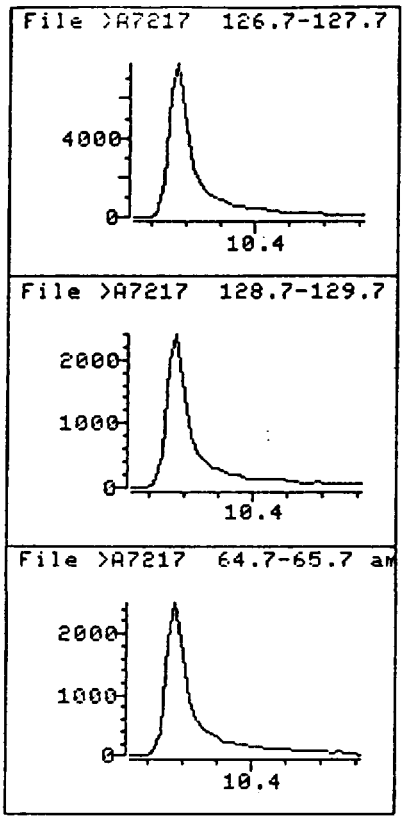


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



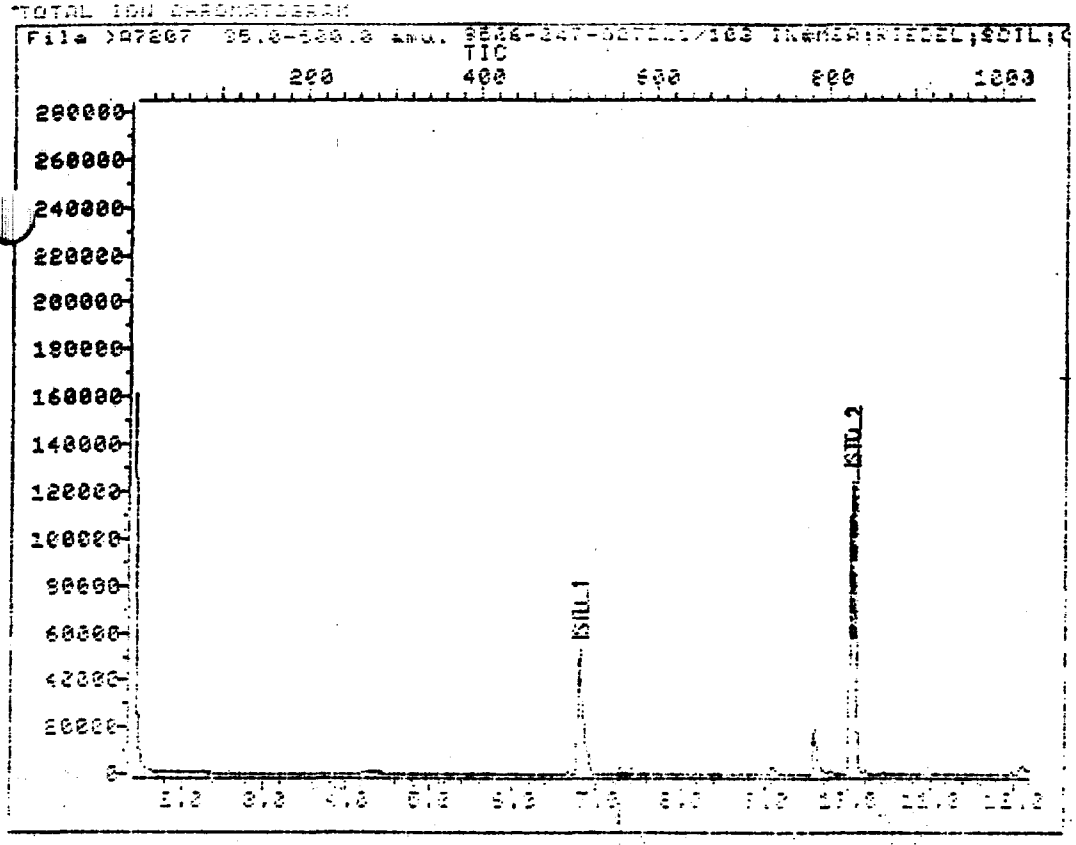


Data File: >A7217::D4 Quant Output File: ^A7217::D2
Name: 9506-047-006DL2/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:50)1:2500+ BTL# 3
Quant Time: 950612 11:34 Quant ID File: I_ATCP::QT
Injected at: 950612 11:00 Last Calibration: 950607 09:26
Last Qcal Time: 950612 08:43

Compound No : 32
Compound Name : 4-Chloroaniline
Scan Number : 874
Retention Time: 10.29 min.
Quant Ion : 127.0
Area : 21656
Concentration : 130752.9 ng/uL
q-value : 91

DMC 6/13/91

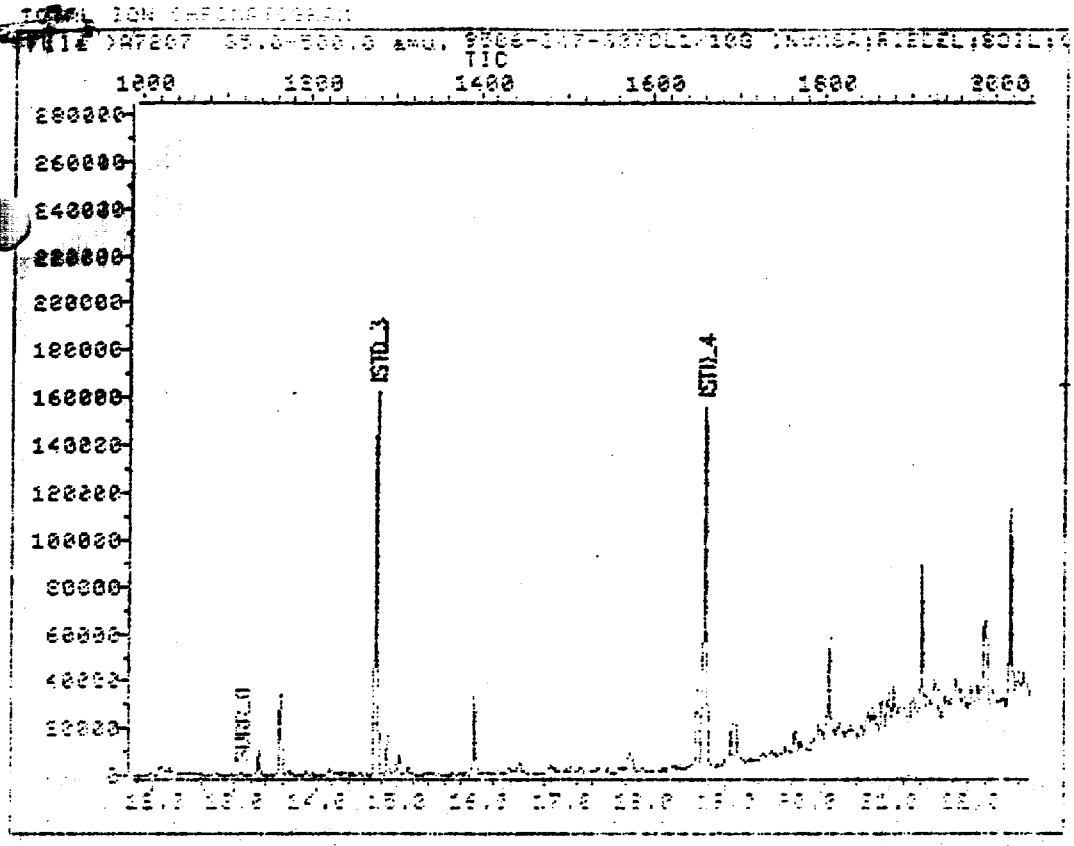
TOTAL ION CHROMATOGRAM



Data File: >A7207::D5 Quant Output File: >A7207::D2
Name: 9506-047-007DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+ SIM# 7

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 17:00
Injected at: 950610 16:26

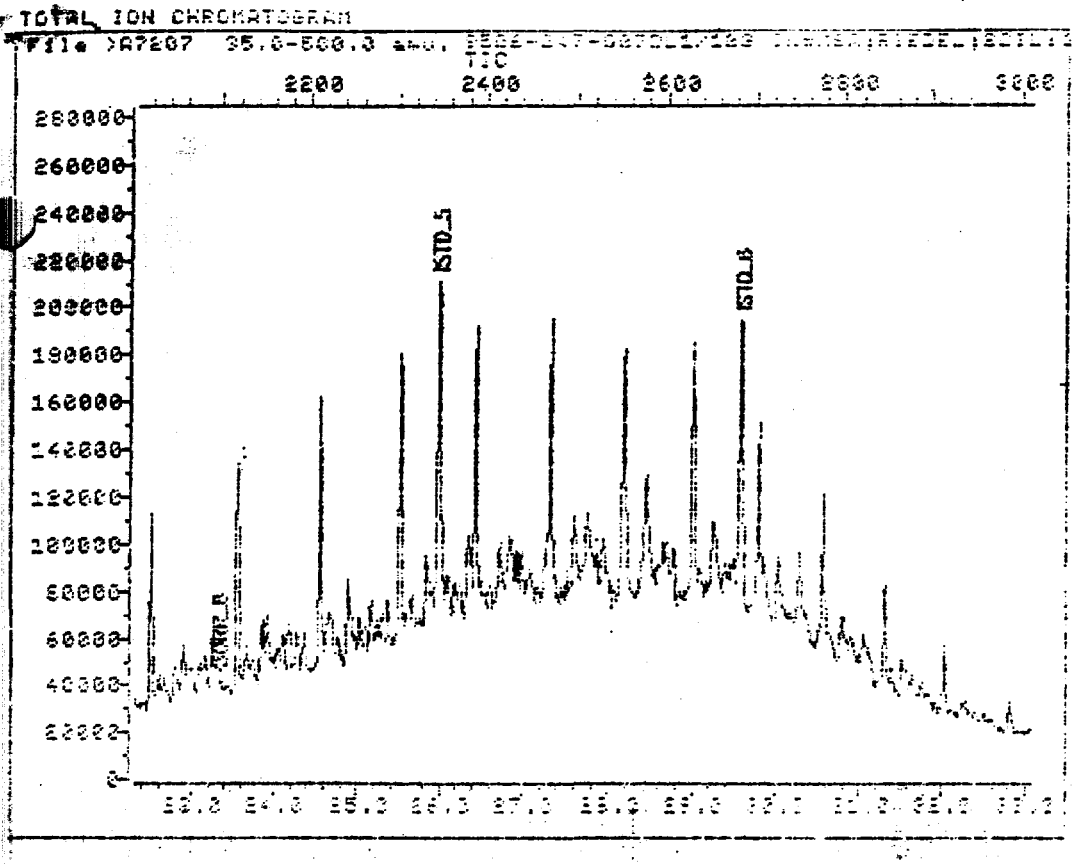


Data File: >A7207::D5 Quant Output File: ^A7207::D2
Name: 9506-047-007DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+ Bottle # /

Id File: I_AVCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 17:00
Injected at: 950610 16:26

TOTAL ION CHROMATOGRAM



Data File: >A7207::D5 Quant Output File: 'A7207::D2
Name: 9506-047-007DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:5004 Scan# 7

IG File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 17:00
Injected at: 950610 16:25

Operator ID: MSA
Output File: ^A7207::D2
Data File: >A7207::D5
Name: 9506-047-007DL1/10G
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+

Quant Rev: 7
Quant Time: 950610 17:00
Injected at: 950610 16:26
Dilution Factor: 500.0000
Instrument ID: MSA
BTL# 7

LOD*16.6
QF-59,952.D

ID File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26
Last Qcal Time: 950608 07:49

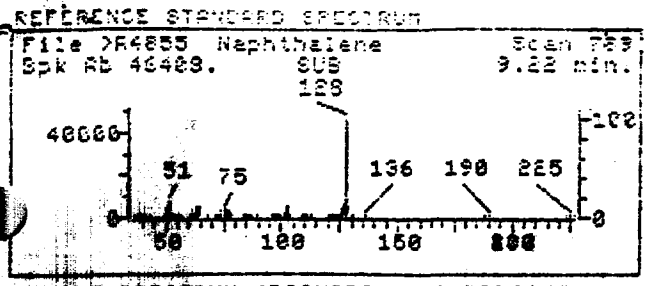
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	6.80	152.0	40558	40.00	ng/uL	93
21)	*d8-Naphthalene	10.04	136.0	132117	40.00	ng/uL	99
26)	~~2,4-Dimethylphenol~~	~~9.59~~	~~122.0~~	~~743~~	~~0.60~~	~~ng/uL~~	~~60~~
31)	Naphthalene	10.09	128.0	130281	19914.12	ng/uL	98
34)	~~2-Methylnaphthalene~~	~~11.98~~	~~115.0~~	~~231~~	~~0.60~~	~~ng/uL~~	~~98~~
36)	*d10-Acenaphthene	14.75	164.0	80416	40.00	ng/uL	92
44)	~~2-Fluorobiphenyl~~	~~13.10~~	~~172.0~~	~~435~~	~~629.76~~	~~ng/uL~~	~~99~~
45)	~~AZOBENZENE~~	~~16.88~~	~~77.0~~	~~870~~	~~2101.29~~	~~ng/uL~~	~~81~~
50)	~~4-Nitrophenol~~	~~16.16~~	~~109.0~~	~~96~~	~~1035.56~~	~~ng/uL~~	~~75~~
55)	~~Fluorene~~	~~16.26~~	~~166.0~~	~~197~~	~~1210.09~~	~~ng/uL~~	~~96~~
57)	*d10-Phenanthrene	18.75	188.0	129674	40.00	ng/uL	98
59)	~~N-Nitrosodiphenylamine (1)~~	~~16.91~~	~~169.0~~	~~244~~	~~1509.16~~	~~ng/uL~~	~~75~~
62)	~~Phenanthrene~~	~~18.81~~	~~178.0~~	~~1523~~	~~1726.51~~	~~ng/uL~~	~~98~~
63)	~~Anthracene~~	~~18.95~~	~~178.0~~	~~101~~	~~2906.52~~	~~ng/uL~~	~~42~~
64)	~~BENZIDINE~~	~~22.38~~	~~184.0~~	~~170~~	~~2155.17~~	~~ng/uL~~	~~100~~
70)	*d12-Chrysene	25.99	240.0	136901	40.00	ng/uL	91
71)	~~Pyrene~~	~~22.60~~	~~202.0~~	~~2135~~	~~2116.66~~	~~ng/uL~~	~~94~~
72)	~~Terphenyl-d14~~	~~20.93~~	~~244.0~~	~~616~~	~~0.00~~	~~ng/uL~~	~~97~~
75)	Butylbenzylphthalate	24.99	149.0	176	1203.43	ng/uL	49
76)	~~3,3'-Dichlorobenzidine~~	~~26.15~~	~~252.0~~	~~150~~	~~2690.21~~	~~ng/uL~~	~~87~~
77)	~~Benzo(a)Anthracene~~	~~25.99~~	~~228.0~~	~~1394~~	~~1531.69~~	~~ng/uL~~	~~53~~
78)	Chrysene	25.99	228.0	~~1394~~	~~729.92~~	~~ng/uL~~	~~55~~
80)	*d12-Perylene	29.60	264.0	132275	40.00	ng/uL	95
85)	~~Benzo(b)Fluoranthene~~	~~28.42~~	~~252.0~~	~~197~~	~~3586.53~~	~~ng/uL~~	~~63~~
86)	~~Benzo(b)Fluoranthene~~	~~28.71~~	~~252.0~~	~~565~~	~~3427.41~~	~~ng/uL~~	~~78~~
87)	~~Benzo(k)Fluoranthene~~	~~28.42~~	~~252.0~~	~~197~~	~~7785.76~~	~~ng/uL~~	~~63~~
88)	~~Benzo(k)Fluoranthene~~	~~28.71~~	~~252.0~~	~~565~~	~~7697.89~~	~~ng/uL~~	~~78~~
89)	~~Benzo(a)Pyrene~~	~~29.45~~	~~252.0~~	~~791~~	~~3472.79~~	~~ng/uL~~	~~87~~
90)	~~Indeno(1,2,3-cd)Pyrene~~	~~31.53~~	~~276.0~~	~~158~~	~~2127.66~~	~~ng/uL~~	~~56~~
91)	~~Dibenzo(a,h)Anthracene~~	~~31.70~~	~~278.0~~	~~229~~	~~2130.30~~	~~ng/uL~~	~~96~~
92)	~~Benzo(g,h,i)Perylene~~	~~32.35~~	~~276.0~~	~~746~~	~~2533.77~~	~~ng/uL~~	~~92~~

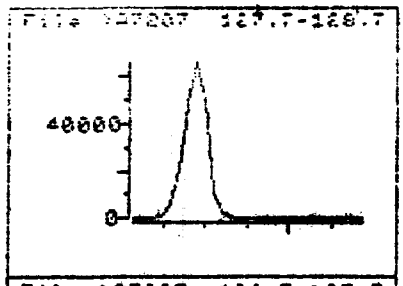
* Compound is ISTD

QDM
QDM4F(59,952.D)
Found

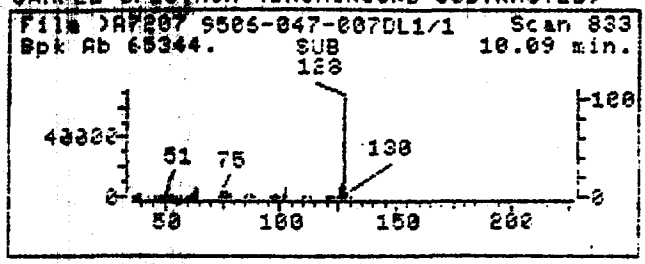
DMC 6/12/95

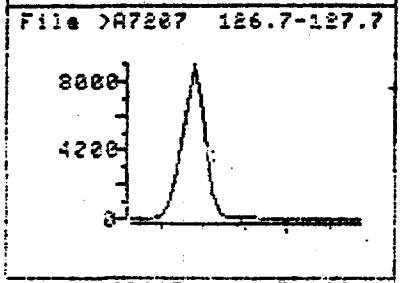
REFERENCE STANDARD SPECTRUM



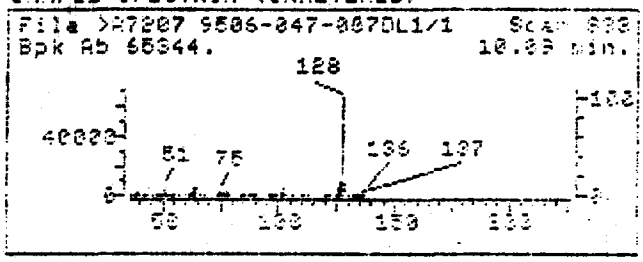


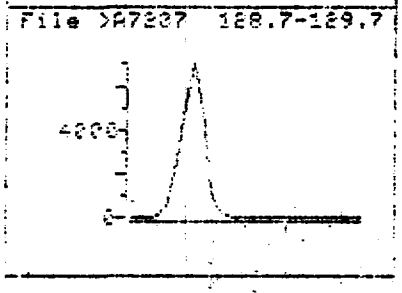
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)



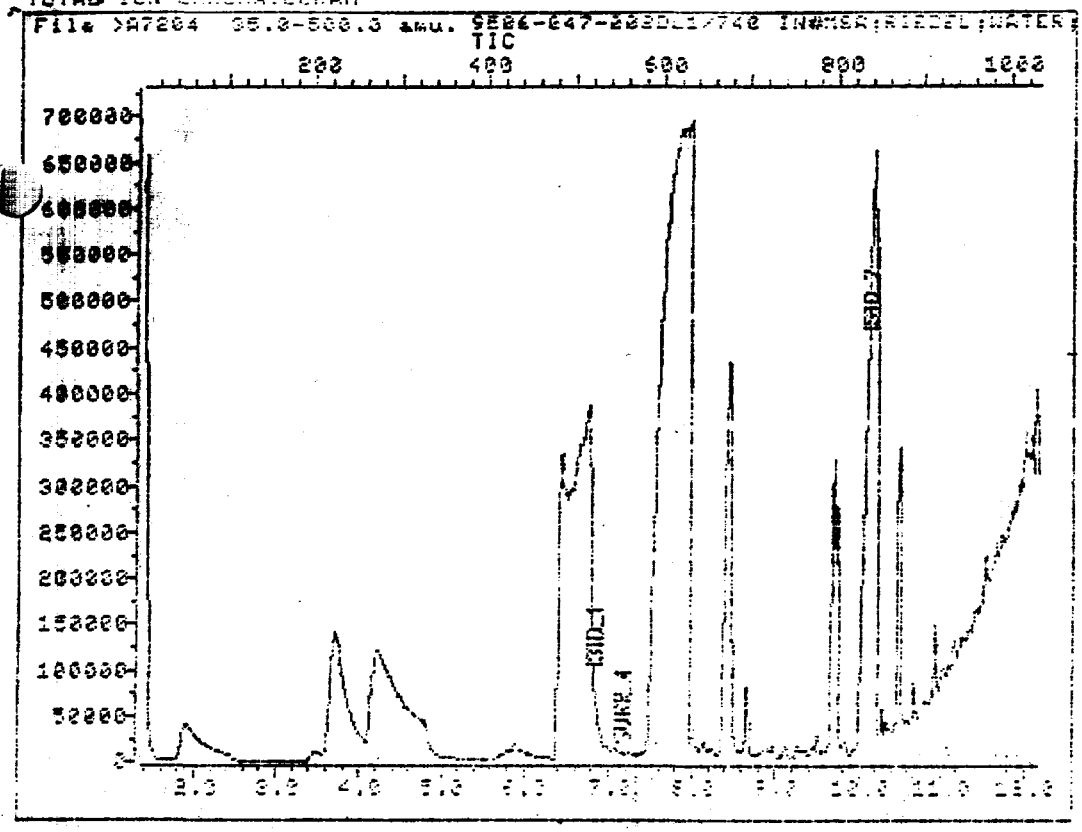


Data File: >A7207::D5 Quant Output File: >A7207::D2
Name: 9506-047-007DL1/10G Instrument ID: MSA
Misc: IN#MSA;RIEDEL;SOIL;(1:10)1:500+ BTL# 7
Quant Time: 950610 17:00 Quant ID File: L_ATCP::QP
Injected at: 950610 16:26 Last Calibration: 950607 09:26
Last Qcal Time: 950608 07:49

Compound No : 31
Compound Name : Naphthalene
Scan Number : 833
Retention Time: 10.09 min.
Quant Ion : 128.0
Area : 130281
Concentration : 19914.12 ng/uL
q-value : 98

DMC 6/12/95

TOTAL ION CHROMATOGRAM

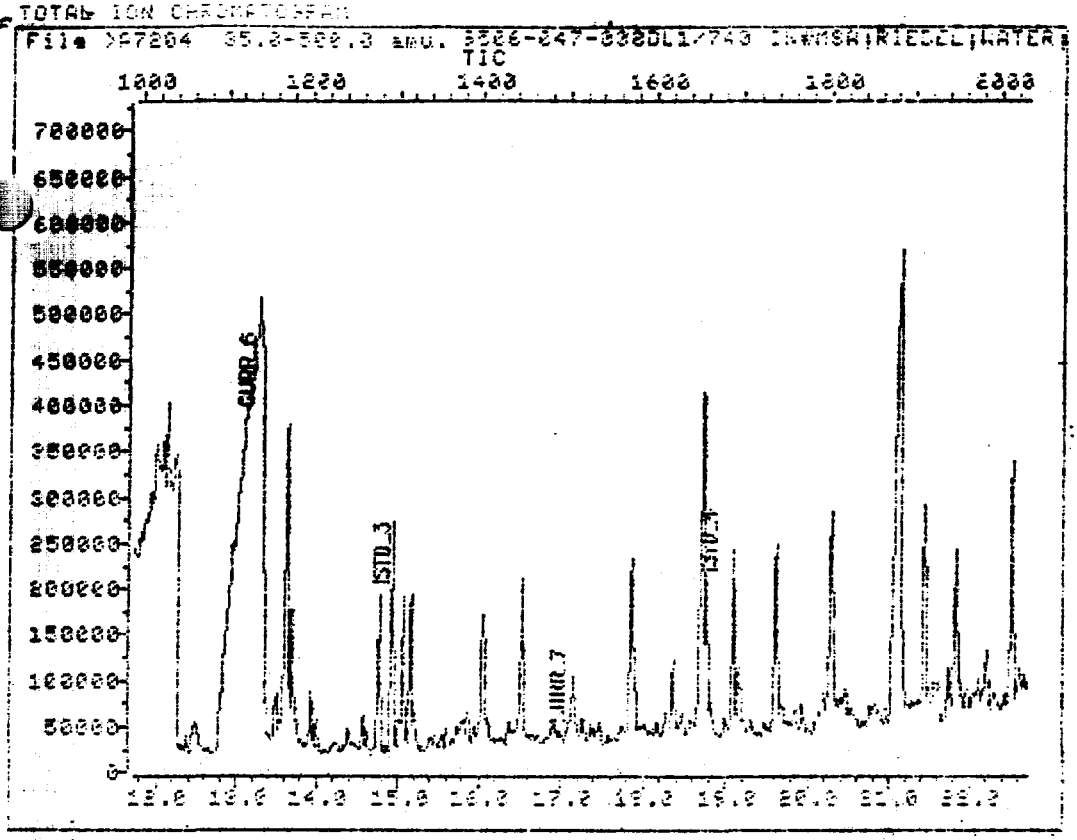


Data File: >A7204::D5 Quant Output File: ^A7204::D2
Name: 9506-047-008DL1/740 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WATER;(1:10);1:40+ BATCH 4

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

Operator ID: MSA
Quant Time : 950610 14:48
Injected at: 950610 14:14

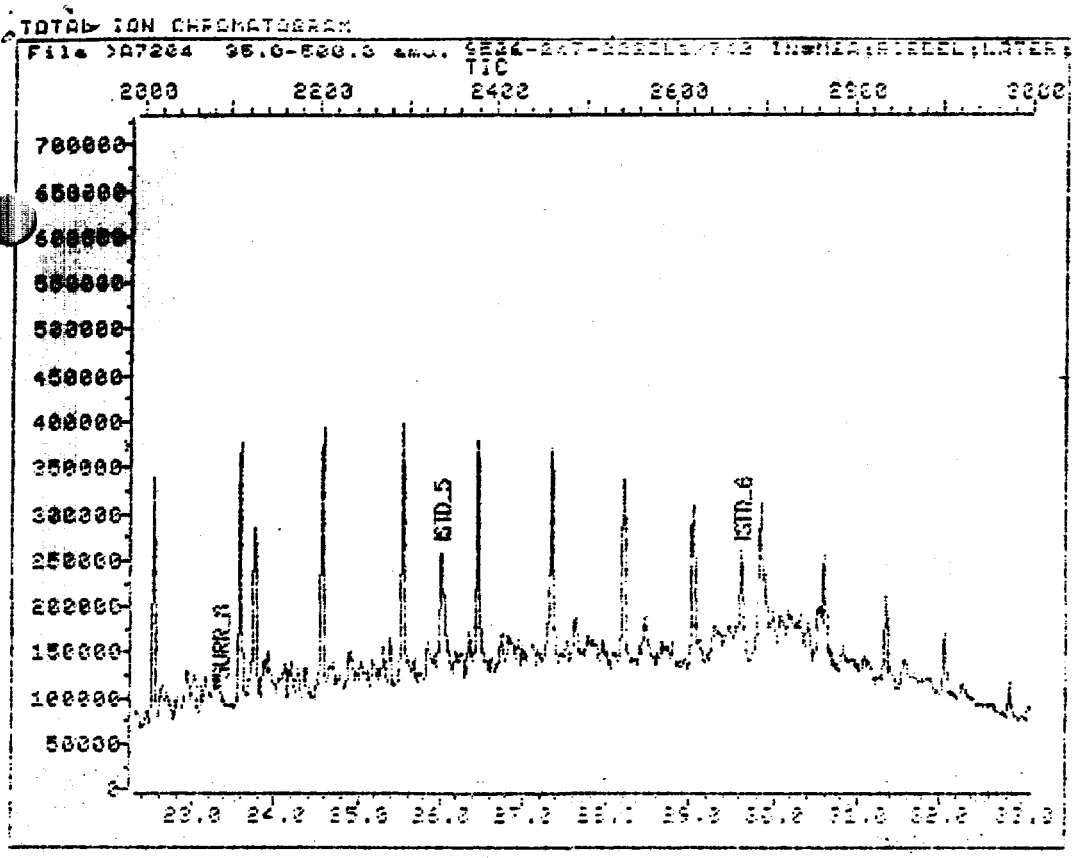
TOTAL ION CHROMATOGRAM



Data File: >A7204::D5 Quant Output File: ^A7204::D2
Name: 9506-047-008DL1/740 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WATER;(1:10)1:40 BTL# 4

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:19

Operator ID: MSA
Quant Time : 950610 14:48
Injected at: 950610 14:14



Data File: >A7204::D5 Quant Output File: ^A7204::D2
Name: 9506-047-008DL1/740 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WATER;(1:10)1:40+ BTL# 4

Id File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:19

Operator ID: MSA
Quant Time : 950610 14:48
Injected at: 950610 14:14

Page 3 of 3

Operator ID: MSA
Output File: ^A7204::D2
Data File: >A7204::D5
Name: 9506-047-008DL1/740
Misc: IN#MSA;RIEDEL;WATER;(1:10)1:40+

Quant Rev: 7
Quant Time: 950610 14:48
Injected at: 950610 14:14
Dilution Factor: 40.00000
Instrument ID: MSA
BTL# 4

DF = 54.0

ID File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26
Last Qcal Time: 950608 07:49

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	6.82	152.0	44728	40.00	ng/uL	92
7)	Phenol	6.44	94.0	497690	~~15231.46~~ 202802.5	ng/uL E	100
~~8)~~	~~2-Chlorophenol~~	~~6.43~~	~~128.0~~	~~30337~~	~~822.44~~	~~ng/uL~~	~~70~~
~~14)~~	~~1,2-Dichlorobenzene-d4~~	~~7.16~~	~~152.0~~	~~2765~~	~~76.27~~	~~ng/uL~~	~~96~~
~~18)~~	~~4-Methylphenol~~	~~8.92~~	~~108.0~~	~~11439~~	~~329.41~~	~~ng/uL~~	~~95~~
21)	*d8-Naphthalene	10.11	136.0	96337	40.00	ng/uL	1
~~25)~~	~~Nitrobenzene~~	~~8.21~~	~~77.0~~	~~512~~	~~452.45~~	~~ng/uL~~	~~56~~
26)	2,4-Dimethylphenol	9.70	122.0	188216	~~10559.37~~ 14695.98	ng/uL E	80
27)	Benzoic Acid E	10.73	122.0	9967	~~794.42~~	ng/uL E	76
~~28)~~	~~Bis(2-chloroethoxy)Methane~~	~~9.94~~	~~93.0~~	~~100~~	~~0.00~~	~~ng/uL~~	~~92~~
~~29)~~	~~2,4-Dichlorophenol~~	~~10.02~~	~~162.0~~	~~13110~~	~~340.55~~	~~ng/uL~~	~~85~~
31)	Naphthalene	10.22	128.0	991194	24796.01	ng/uL E	99
~~32)~~	~~4-Chloroaniline~~	~~10.55~~	~~127.0~~	~~196~~	~~153.01~~	~~ng/uL~~	~~36~~
35)	2-Methylnaphthalene	12.00	115.0	8457	570.17	ng/uL	97
36)	*d10-Acenaphthene	14.78	164.0	91061	40.00	ng/uL	96
[illegible]	2,4,6-Trichlorophenol	12.94	196.0	10395	447.15	ng/uL	97
~~38)~~	~~2-Fluorobiphenyl~~	~~13.11~~	~~172.0~~	~~2765~~	~~78.98~~	~~ng/uL~~	~~[illegible]~~
~~39)~~	~~Dimethyl Phthalate~~	~~14.30~~	~~163.0~~	~~317~~	~~73.11~~	~~ng/uL~~	~~[illegible]~~
~~40)~~	~~AZOBENZENE~~	~~11.85~~	~~77.0~~	~~785~~	~~166.14~~	~~ng/uL~~	~~94~~
~~41)~~	~~2,6-Dinitrotoluene~~	~~11.35~~	~~165.0~~	~~126~~	~~150.00~~	~~ng/uL~~	~~87~~
~~42)~~	~~3-Nitroaniline~~	~~15.21~~	~~138.0~~	~~317~~	~~124.16~~	~~ng/uL~~	~~79~~
~~43)~~	~~Acenaphthene~~	~~14.84~~	~~153.0~~	~~1905~~	~~77.63~~	~~ng/uL~~	~~92~~
~~44)~~	~~4-Nitrophenol~~	~~15.69~~	~~109.0~~	~~169~~	~~140.05~~	~~ng/uL~~	~~76~~
~~45)~~	~~Dibenzofuran~~	~~15.36~~	~~168.0~~	~~1117~~	~~63.06~~	~~ng/uL~~	~~83~~
~~46)~~	~~2,4-Dinitrotoluene~~	~~15.56~~	~~165.0~~	~~124~~	~~61.65~~	~~ng/uL~~	~~62~~
~~47)~~	~~Fluorene~~	~~16.28~~	~~166.0~~	~~2166~~	~~133.24~~	~~ng/uL~~	~~98~~
57)	*d10-Phenanthrene	18.78	188.0	141249	40.00	ng/uL	95
~~59)~~	~~2,4,6-Tribromophenol~~	~~16.96~~	~~330.0~~	~~1224~~	~~201.21~~	~~ng/uL~~	~~94~~
~~64)~~	~~Pentachlorophenol~~	~~19.45~~	~~266.0~~	~~506~~	~~224.07~~	~~ng/uL~~	~~88~~
~~65)~~	~~Phenanthrene~~	~~18.83~~	~~178.0~~	~~23557~~	~~336.35~~	~~ng/uL~~	~~97~~
~~66)~~	~~Anthracene~~	~~18.97~~	~~178.0~~	~~3445~~	~~236.52~~	~~ng/uL~~	87
~~67)~~	~~Carbazole~~	~~19.63~~	~~167.0~~	~~9040~~	~~145.99~~	~~ng/uL~~	~~83~~
~~69)~~	~~Di-n-Butylphthalate~~	~~20.73~~	~~149.0~~	~~236~~	~~156.21~~	~~ng/uL~~	~~40~~
~~70)~~	~~Fluoranthene~~	~~22.08~~	~~202.0~~	~~3625~~	~~210.56~~	~~ng/uL~~	~~94~~
~~71)~~	~~BENZIDINE~~	~~22.59~~	~~184.0~~	~~305~~	~~297.41~~	~~ng/uL~~	~~100~~
72)	*d12-Chrysene	26.01	240.0	130857	40.00	ng/uL	90
~~73)~~	~~Pyrene~~	~~22.63~~	~~202.0~~	~~24856~~	~~257.14~~	~~ng/uL~~	~~94~~
~~74)~~	~~Terphenyl-d14~~	~~23.35~~	~~244.0~~	~~5076~~	~~0.00~~	~~ng/uL~~	~~86~~
~~75)~~	~~Butylbenzylphthalate~~	~~24.50~~	~~149.0~~	~~622~~	~~102.68~~	~~ng/uL~~	~~53~~
~~76)~~	~~3,3'-Dichlorobenzidine~~	~~26.16~~	~~252.0~~	~~175~~	~~216.57~~	~~ng/uL~~	~~94~~

JGM
001WF(54.0)
Final

DMC 6/12/95

sum.dil.out.

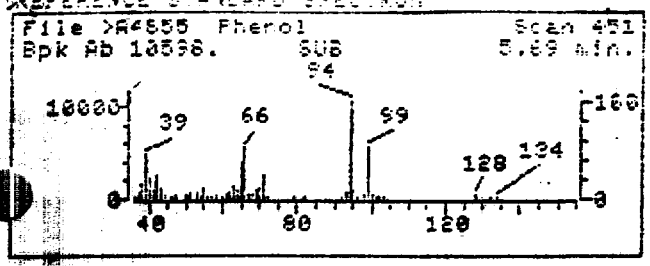
Operator ID: MSA Quant Rev: 7 Quant Time: 950610 14:48
Output File: ^A7204::D2 Injected at: 950610 14:14
Data File: >A7204::D5 Dilution Factor: 40.00000
Name: 9506-047-008DL1/740 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WATER;(1:10)1:40+ BTL# 4

ID File: I_ATCP::QT
Title: SEMIVOLATILE BNA'S
Last Calibration: 950607 09:26 Last Qcal Time: 950608 07:49

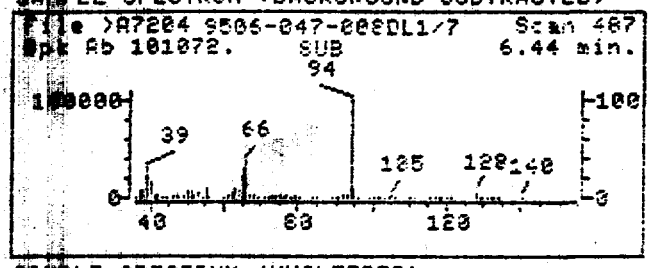
	Compound	R.T.	Q ion	Area	Conc	Units	q
~~77)~~	~~Benzo(a)Anthracene~~	~~26.07~~	~~228.0~~	~~21241~~	~~[illegible]~~	~~ng/uL~~	~~95~~
~~78)~~	~~Chrysene~~	~~25.99~~	~~228.0~~	~~40957~~	~~154.94~~	~~ng/uL~~	~~77~~
~~79)~~	~~Chrysene~~	~~26.07~~	~~228.0~~	~~21284~~	~~258.93~~	~~ng/uL~~	90
80)	*d12-Perylene	29.63	264.0	115772	40.00	ng/uL	95
~~81)~~	~~Benzo(b)Fluoranthene~~	~~28.74~~	~~252.0~~	~~6260~~	~~332.71~~	~~ng/uL~~	~~89~~
~~82)~~	~~Benzo(b)Fluoranthene~~	~~29.05~~	~~252.0~~	~~3171~~	~~301.36~~	~~ng/uL~~	~~74~~
~~83)~~	~~Benzo(k)Fluoranthene~~	~~28.74~~	~~252.0~~	~~6260~~	~~666.29~~	~~ng/uL~~	~~89~~
~~84)~~	~~Benzo(k)Fluoranthene~~	~~29.03~~	~~252.0~~	~~3171~~	~~616.69~~	~~ng/uL~~	~~74~~
~~85)~~	~~Benzo(a)Pyrene~~	~~29.48~~	~~252.0~~	~~12250~~	~~304.74~~	~~ng/uL~~	~~99~~
~~86)~~	~~Indeno(1,2,3-cd)Pyrene~~	~~31.94~~	~~276.0~~	~~420~~	~~172.35~~	~~ng/uL~~	76
~~87)~~	~~Dibenzo(a,h)Anthracene~~	~~31.97~~	~~278.0~~	~~941~~	~~176.20~~	~~ng/uL~~	~~66~~
~~88)~~	~~Benzo(g,h,i)Perylene~~	~~32.36~~	~~276.0~~	~~2015~~	~~225.43~~	~~ng/uL~~	~~72~~

* Compound is ISTD

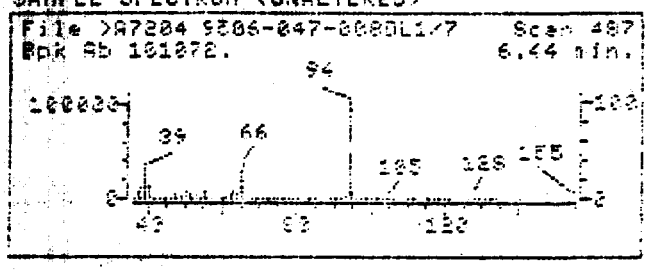
REFERENCE STANDARD SPECTRUM

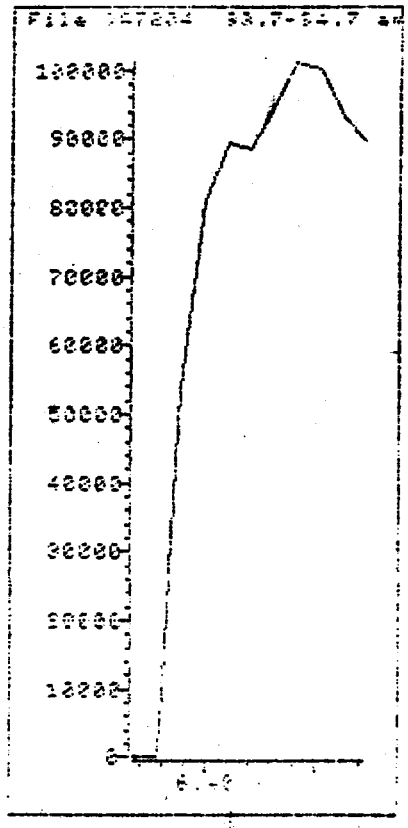


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



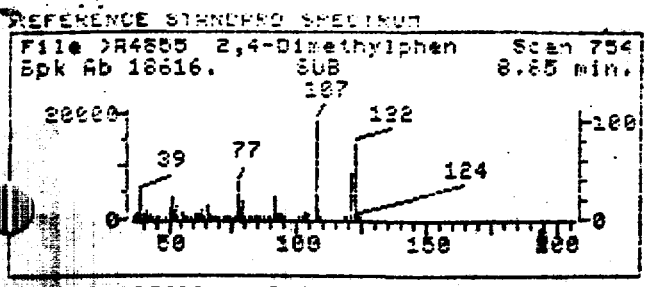


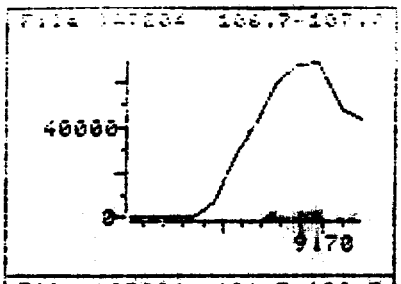
Data File: >A7204::D5 Quant Output File: ^A7204::D2
Name: 9506-047-008DL1/740 Instrument ID: MSA
Misc: IN#M&A;RIEDEL;WATER;(1:10)1:40+ [illegible] 4
Quant Time: 950610 14:48 Quant ID File: I_ATCP::QT[illegible]
Injected at: 950610 14:14 Last Calibration: 950607 09:[illegible]
Last Qcal Time: 950608 07:49

Compound No : 7
Compound Name : Phenol
Scan Number : 487
Retention Time: 6.44 min.
Quant Ion : 94.0
Area : 497690
Concentration : 15231.46 ng/uL
q-value : 100

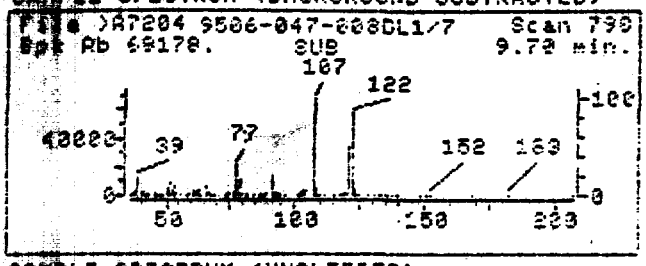
DHC 6/12/95

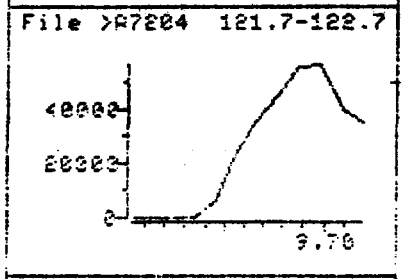
REFERENCE STANDARD SPECTRUM



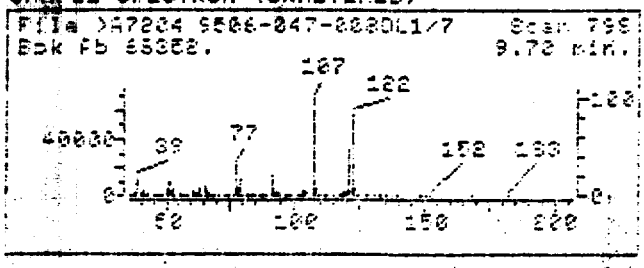


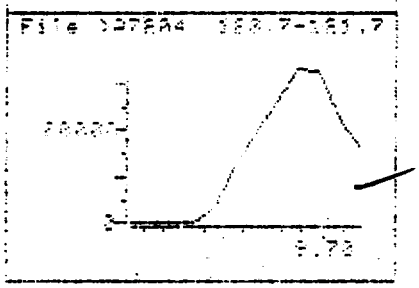
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)





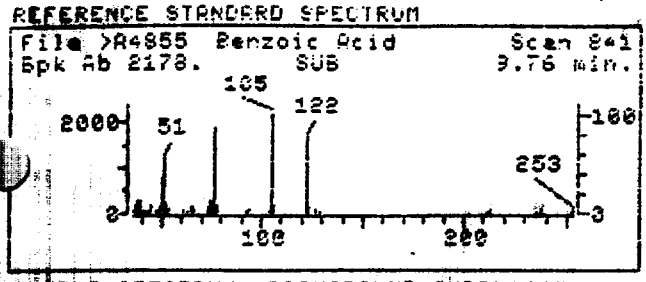
Q

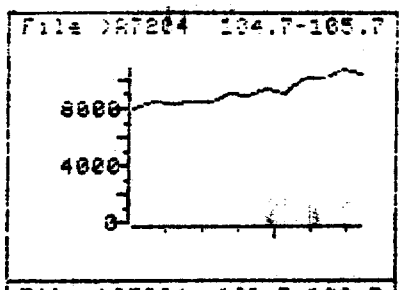
Data File: >A7204::D5 Quant Output File: ^A7204::D2
Name: 9506-047-008DL1/740 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WATER;(1:10)1:40+ BTX 4
Quant Time: 950610 14:48 Quant ID File: I_ATCP::QT
Injected at: 950610 14:14 Last Calibration: 950607 09:2
Last Ocal Time: 950608 07:49

Compound No : 26
Compound Name : 2,4-Dimethylphenol
Scan Number : 798
Retention Time: 9.70 min.
Quant Ion : 122.0
Area : 188215
Concentration : 10559.37 ng/uL
q-value : 90

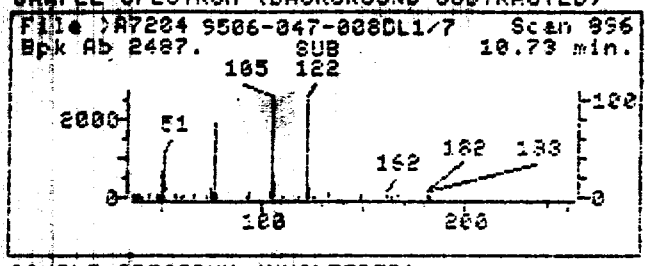
DMC 6/12/95

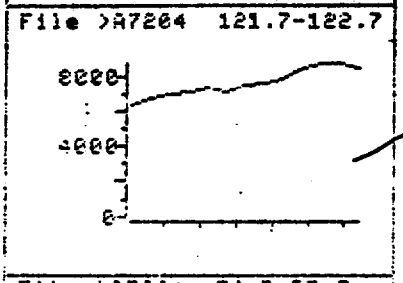
REFERENCE STANDARD SPECTRUM



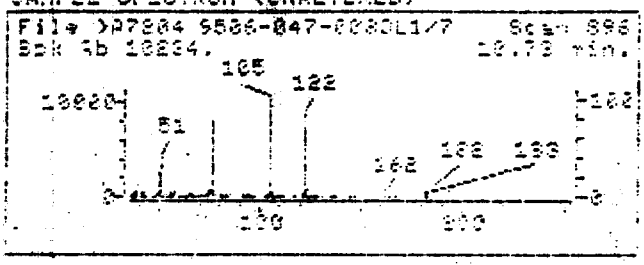


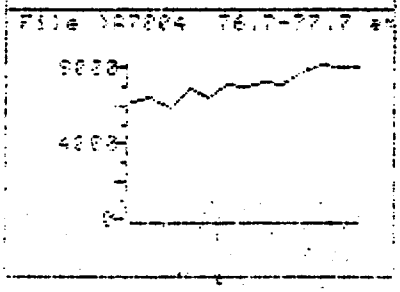
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)



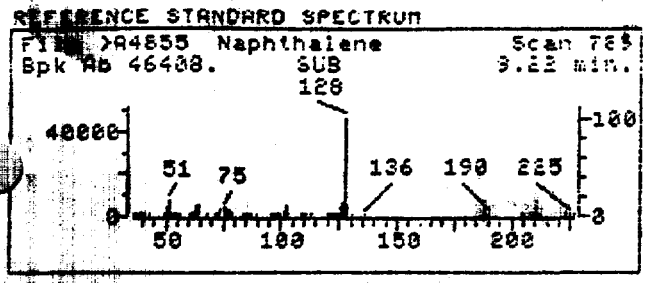


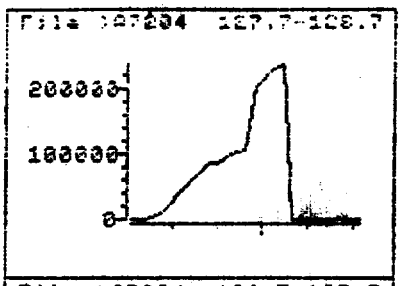
Data File: >A7204::D5 Quant Output File: ^A7204::D2
Name: 9506-047-008DL1/740 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WATER;(1:10)1:40 [illegible]
Quant Time: 950610 14:48 Quant ID File: I_ATCP::OT[illegible]
Injected at: 950610 14:14 Last Calibration: 950607 09:[illegible]
Last Qcal Time: 950608 07:49

Compound No : 27
Compound Name : Benzoic Acid
Scan Number : 896
Retention Time: 10.73 min.
Quant Ion : 122.0
Area : 9967
Concentration : 794.42 ng/uL
q-value : 76

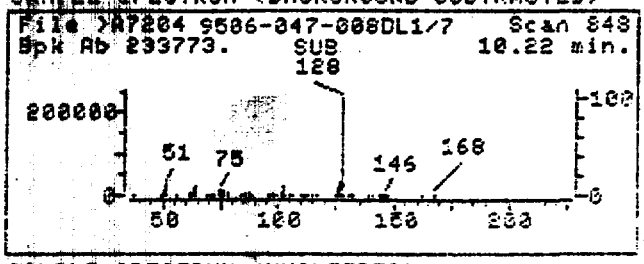
DHC 6/12/95

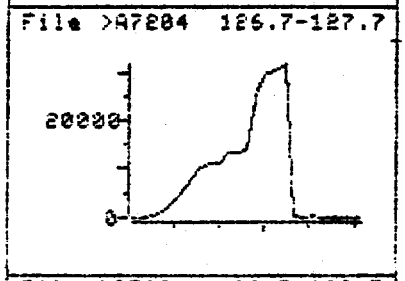
REFERENCE STANDARD SPECTRUM



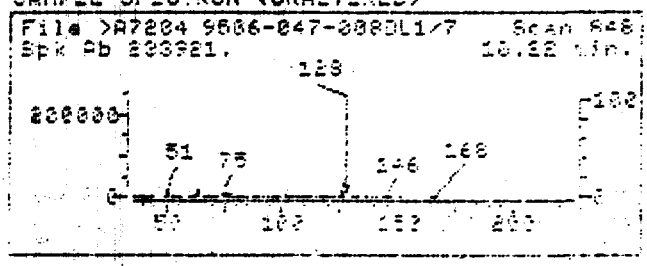


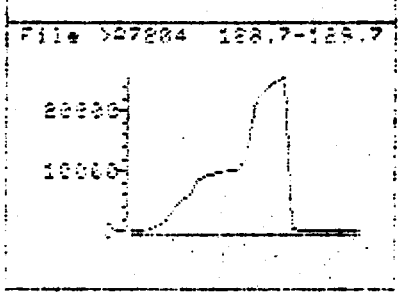
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)



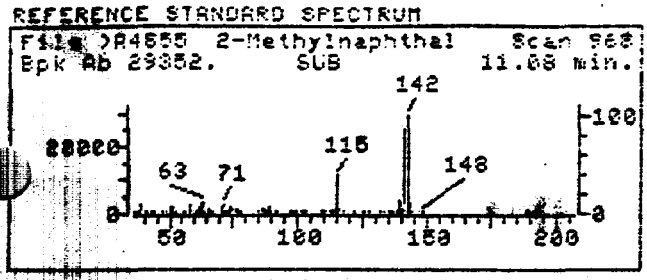


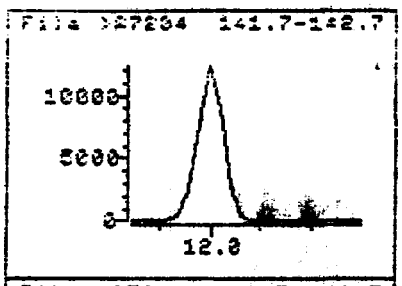
Data File: >A7204::D5 Quant Output File: ^A7204::D2
Name: 9506-047-008DL1/740 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WATER;(1:10)1:40 [illegible] 4
Quant Time: 950610 14:48 Quant ID File: I_ATCP::QT[illegible]
Injected at: 950610 14:14 Last Calibration: 950607 09:[illegible]
Last Qcal Time: 950608 07:49

Compound No : 31
Compound Name : Naphthalene
Scan Number : 848
Retention Time: 10.22 min.
Quant Ion : 128.0
Area : 591194
Concentration : 24796.01 ng/uL
q-value : 99

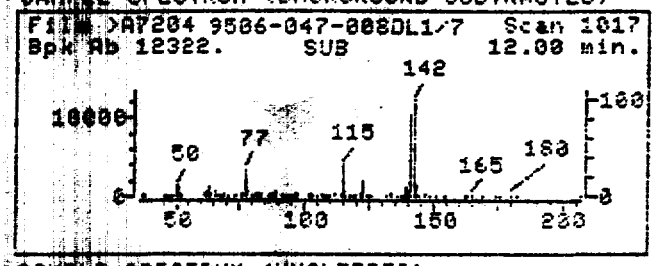
DMC 6/12/95

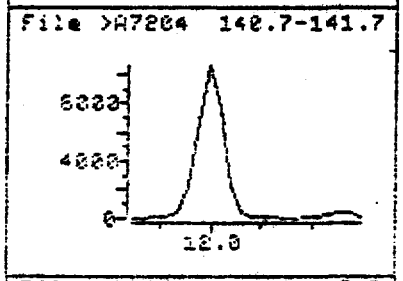
REFERENCE STANDARD SPECTRUM



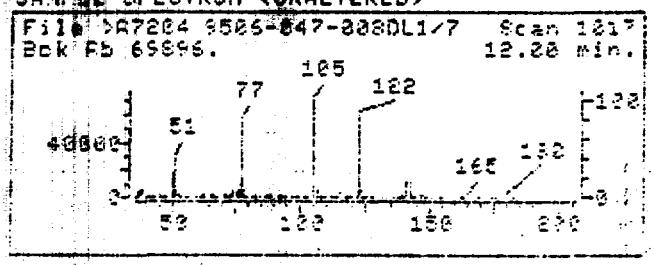


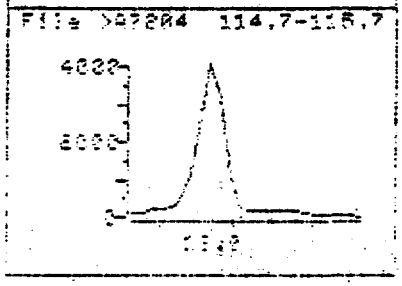
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)



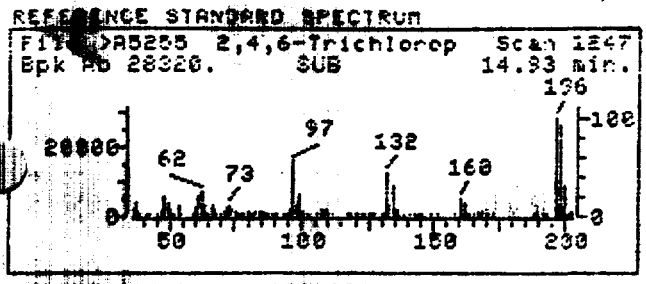


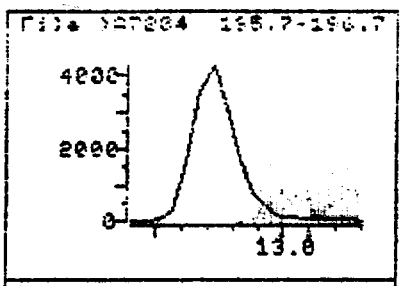
Data File: >A7204::D5 Quant Output File: ^A7204::D2
Name: 9506-047-008DL1/740 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WATER;(1:10)1:40+
Quant Time: 950610 14:48 Quant ID File: I_ATCP::QP
Injected at: 950610 14:14 Last Calibration: 950607 09:29
Last Qcal Time: 950608 07:49

Compound No : 35
Compound Name : 2-Methylnaphthalene
Scan Number : 1017
Retention Time: 12.00 min.
Quant Ion : 115.0
Area : 8457
Concentration : 570.17 ng/uL
q-value : 97

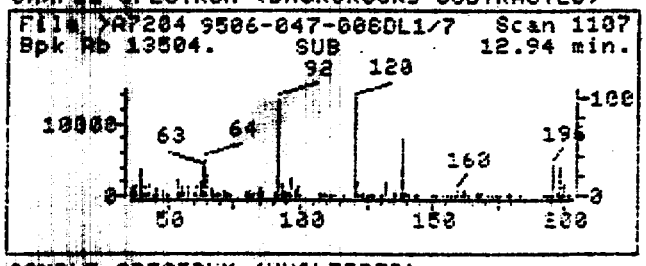
DMC 6/12/95

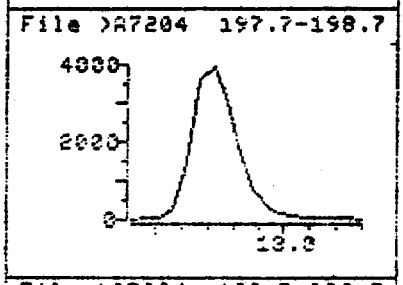
REFERENCE STANDARD SPECTRUM



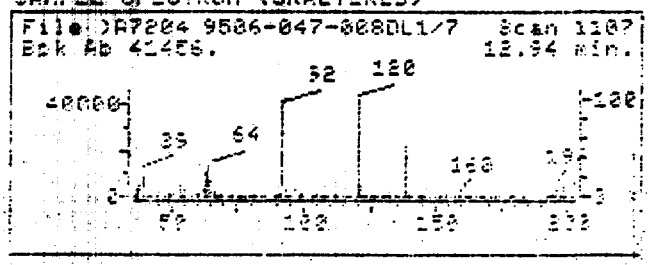


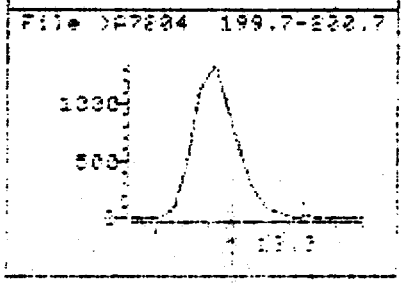
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)





Data File: >A7204::D5 Quant Output File: ^A7204::D2
Name: 9506-047-008DL1/740 Instrument ID: MSA
Misc: IN#MSA;RIEDEL;WATER;(1:10)1:40+
Quant Time: 950610 14:48 Quant ID File: 1_ATCP::Q1
Injected at: 950610 14:14 Last Calibration: 950607 09:
Last Qcal Time: 950608 07:49

Compound No : 38
Compound Name : 2,4,6-Trichlorophenol
Scan Number : 1107
Retention Time: 12.94 min.
Quant Ion : 196.0
Area : 10395
Concentration : 447.15 ng/uL
q-value : 97

DMC 6/12/95