

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091025\
 Data File : VN087786.D
 Acq On : 10 Sep 2025 17:11
 Operator : JC\MD
 Sample : Q3045-05DL100X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DNAPL-OILDL

Quant Time: Sep 11 02:07:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

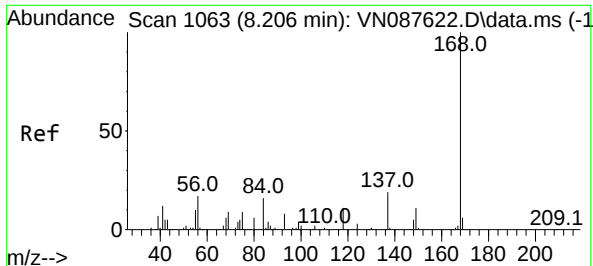
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	222850	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	513405	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	495256	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	246497	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	246225	53.926	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.860%			
35) Dibromofluoromethane	8.153	113	186328	50.267	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.540%			
50) Toluene-d8	10.547	98	658805	47.486	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.980%			
62) 4-Bromofluorobenzene	12.829	95	242033	49.055	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.100%			
Target Compounds					Qvalue	
5) Bromomethane	2.983	94	414	0.213	ug/l #	3
10) Methyl Iodide	4.600	142	64	6.834	ug/l #	38
16) Acetone	4.418	43	4893	1.969	ug/l #	85
20) Methylene Chloride	5.271	84	324	Below Cal	#	23
25) 2-Butanone	7.482	43	3237	0.990	ug/l #	50
31) Cyclohexane	8.206	56	6524	1.136	ug/l #	15
36) 1,1-Dichloropropene	8.206	75	20918	3.678	ug/l #	50
38) Carbon Tetrachloride	8.206	117	26338	4.691	ug/l #	13
40) Benzene	8.588	78	1074489	61.604	ug/l	100
52) Toluene	10.606	92	517351	47.846	ug/l	99
53) t-1,3-Dichloropropene	10.618	75	5871	0.846	ug/l #	1
55) 1,1,2-Trichloroethane	10.859	97	2985	0.714	ug/l #	19
67) Ethyl Benzene	11.941	91	216607	10.154	ug/l	100
68) m/p-Xylenes	12.047	106	98917	12.643	ug/l	94
69) o-Xylene	12.376	106	56595	7.381	ug/l	93
70) Styrene	12.388	104	83769	6.521	ug/l	99
73) Isopropylbenzene	12.670	105	4953	0.249	ug/l	89
76) 1,2,3-Trichloropropane	12.829	75	137021	23.704	ug/l #	1
79) 2-Chlorotoluene	13.082	91	5459	0.370	ug/l #	42
80) 1,3,5-Trimethylbenzene	13.153	105	12557	0.743	ug/l	85
81) trans-1,4-Dichloro-2-b...	12.829	75	137021	62.754	ug/l #	1
83) tert-Butylbenzene	13.459	119	4899	0.348	ug/l #	52
84) 1,2,4-Trimethylbenzene	13.459	105	36959	2.185	ug/l	97
85) sec-Butylbenzene	13.459	105	36959	1.769	ug/l #	58
90) Hexachloroethane	14.435	117	4966	1.511	ug/l #	22
95) Naphthalene	15.611	128	1404049	75.234	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration

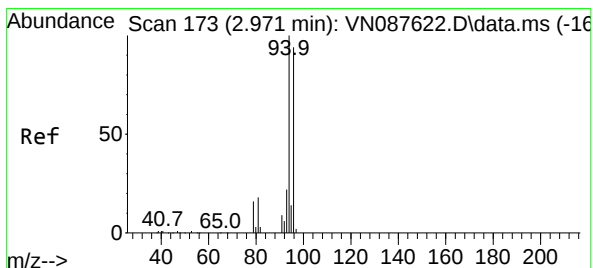
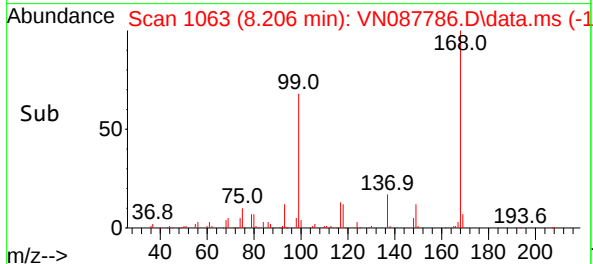
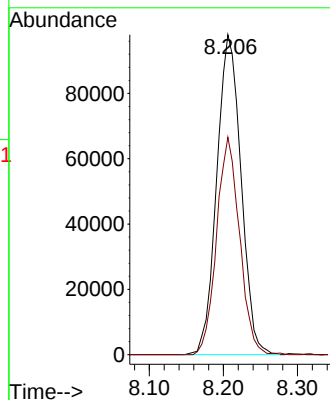
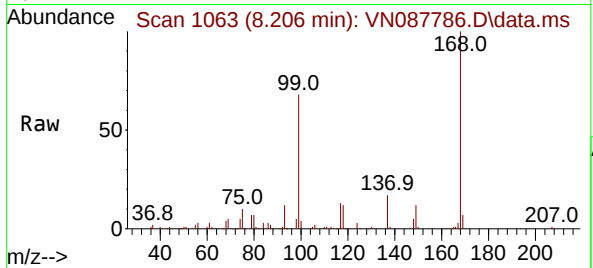




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

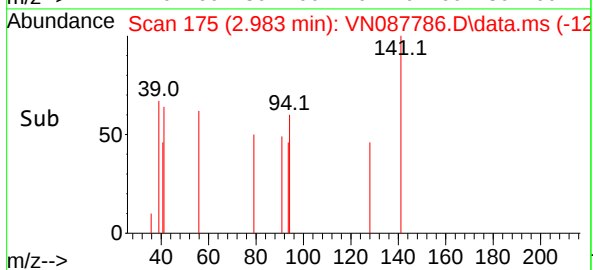
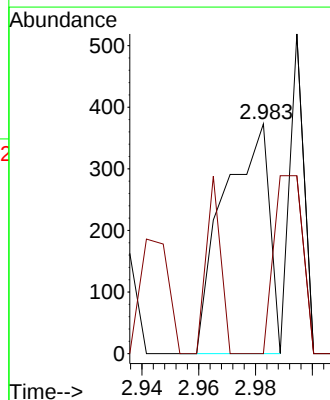
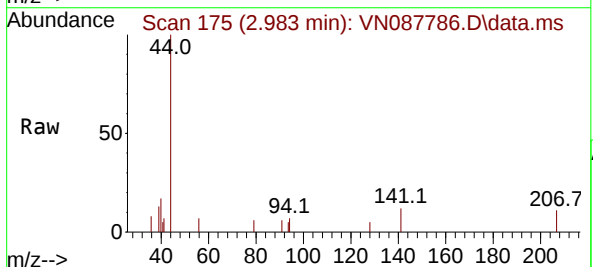
Instrument :
MSVOA_N
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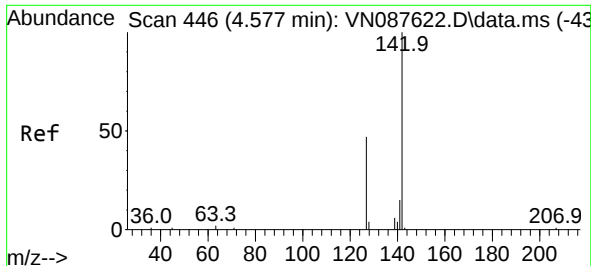
Tgt Ion:168 Resp: 222850
Ion Ratio Lower Upper
168 100
99 68.0 57.2 85.8



#5
Bromomethane
Concen: 0.213 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.012 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Tgt Ion: 94 Resp: 414
Ion Ratio Lower Upper
94 100
96 0.0 75.4 113.2#

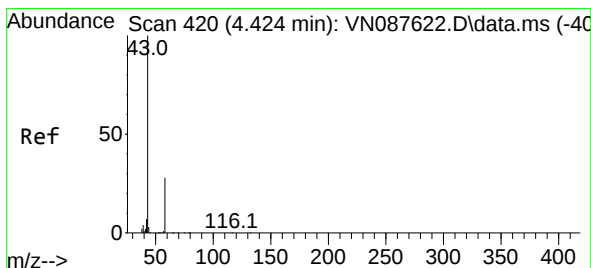
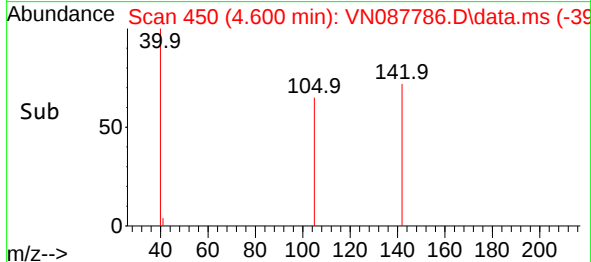
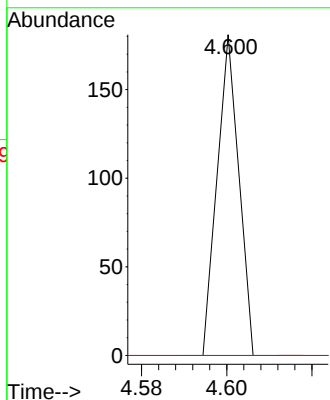
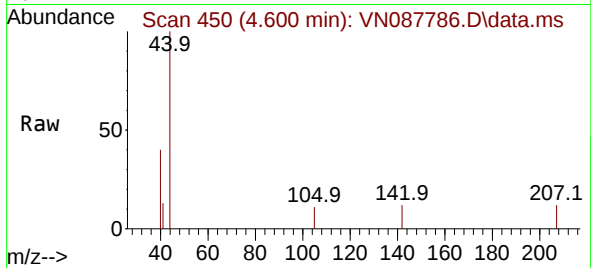




#10
Methyl Iodide
Concen: 6.834 ug/l
RT: 4.600 min Scan# 419
Delta R.T. 0.023 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

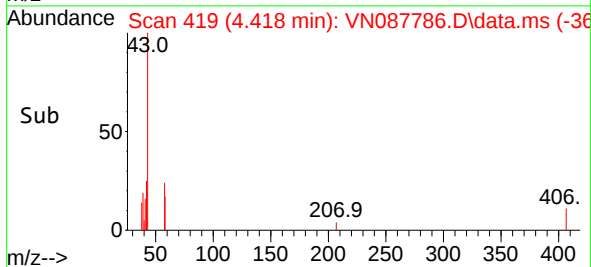
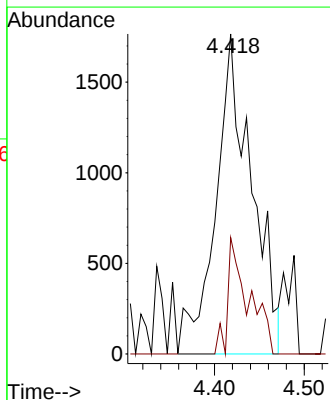
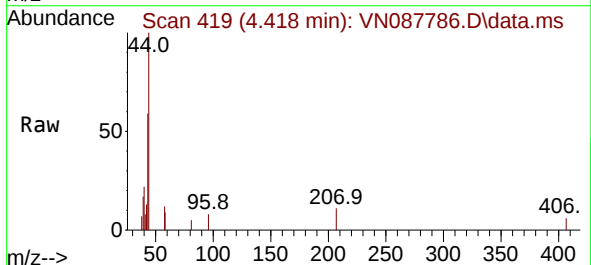
Instrument :
MSVOA_N
ClientSampleId :
DNAPL-OILDL

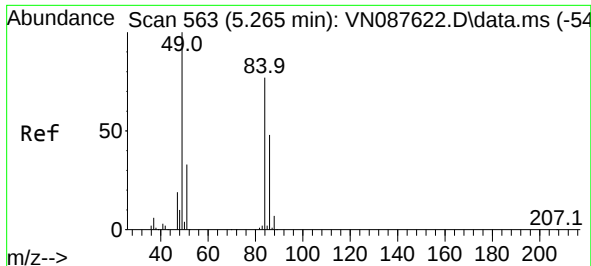
Tgt Ion:142 Resp: 64
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#16
Acetone
Concen: 1.969 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Tgt Ion: 43 Resp: 4893
Ion Ratio Lower Upper
43 100
58 36.4 22.6 33.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 5.271 min Scan# 5

Delta R.T. 0.006 min

Lab File: VN087786.D

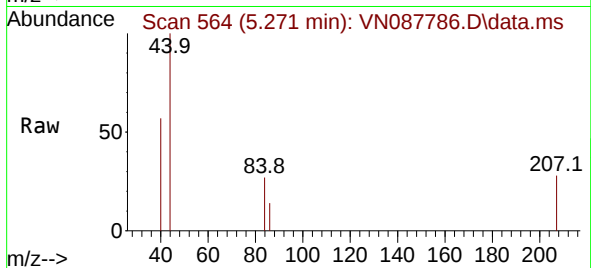
Acq: 10 Sep 2025 17:11

Instrument :

MSVOA_N

ClientSampleId :

DNAPL-OILDL



Tgt Ion: 84 Resp: 324

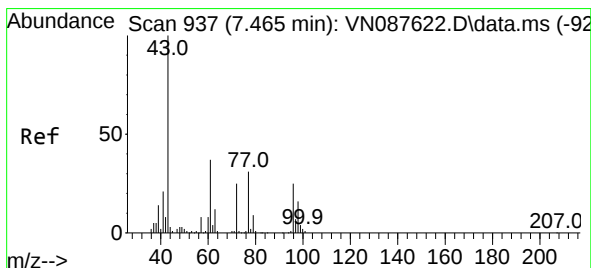
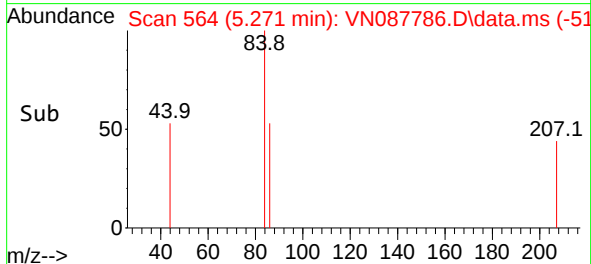
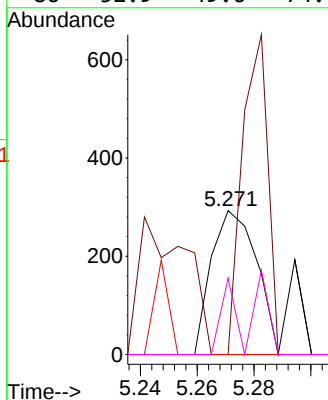
Ion Ratio Lower Upper

84 100

49 0.0 103.4 155.2#

51 0.0 33.8 50.8#

86 52.9 49.6 74.4



#25

2-Butanone

Concen: 0.990 ug/l

RT: 7.482 min Scan# 940

Delta R.T. 0.017 min

Lab File: VN087786.D

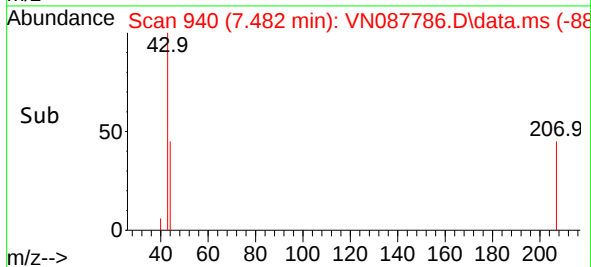
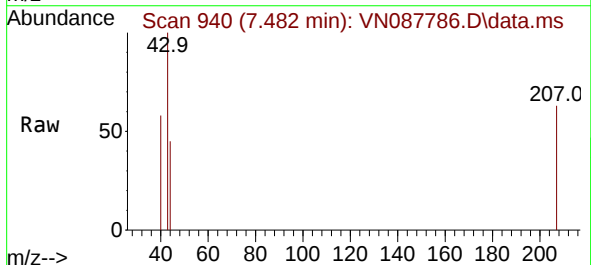
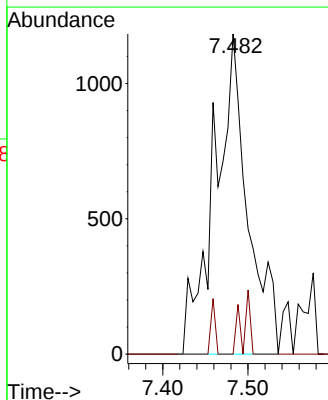
Acq: 10 Sep 2025 17:11

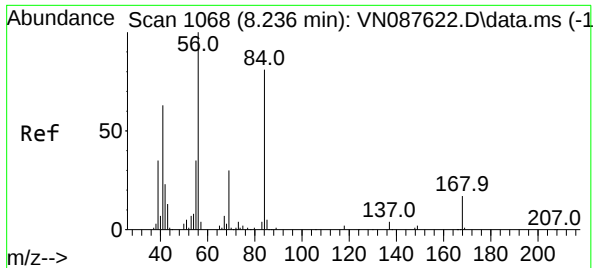
Tgt Ion: 43 Resp: 3237

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#

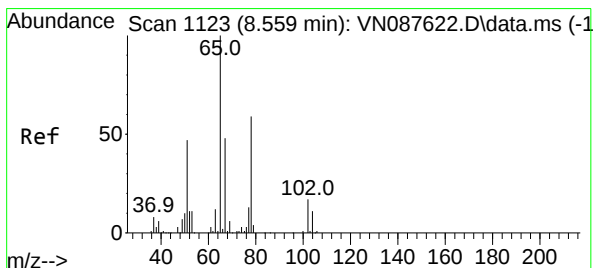
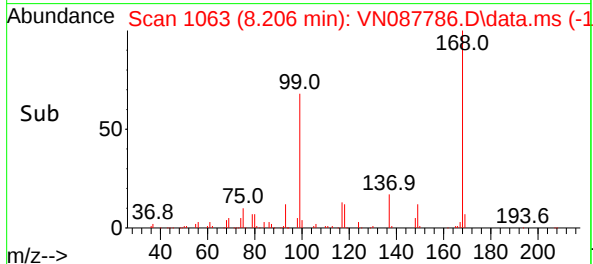
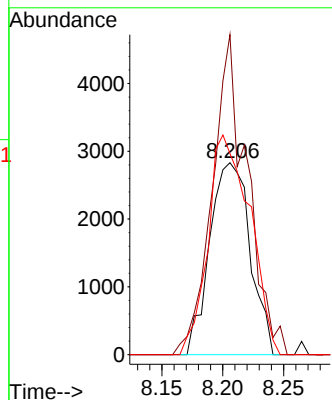
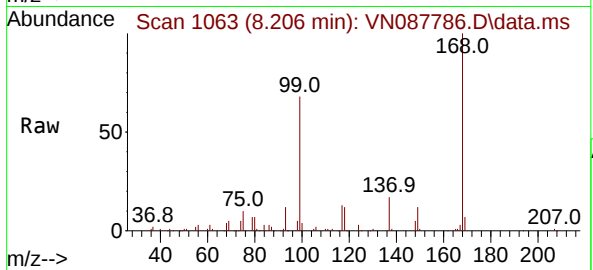




#31
Cyclohexane
Concen: 1.136 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.030 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

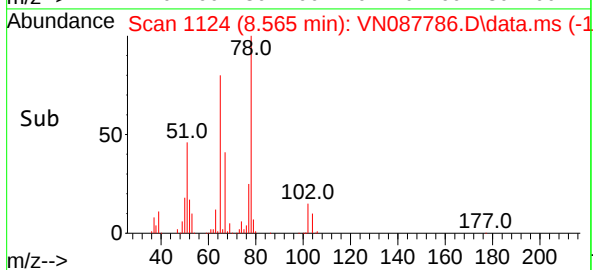
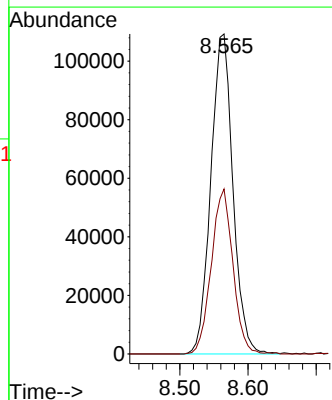
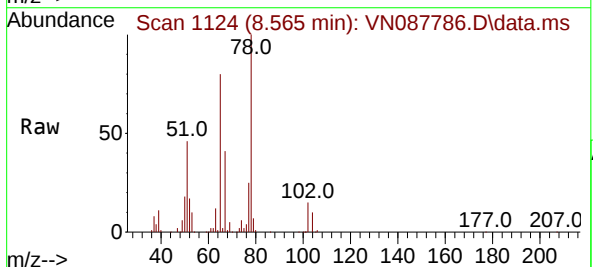
Instrument :
MSVOA_N
ClientSampleId :
DNAPL-OILDL

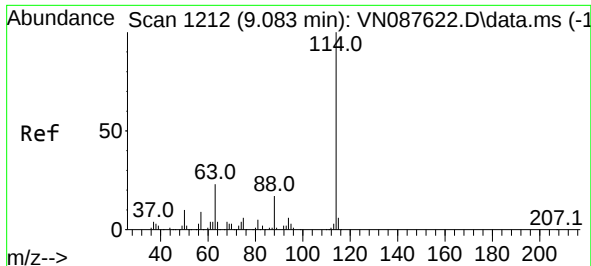
Tgt Ion: 56 Resp: 6524
Ion Ratio Lower Upper
56 100
69 161.1 23.7 35.5#
84 104.7 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 53.926 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Tgt Ion: 65 Resp: 246225
Ion Ratio Lower Upper
65 100
67 50.4 0.0 100.0

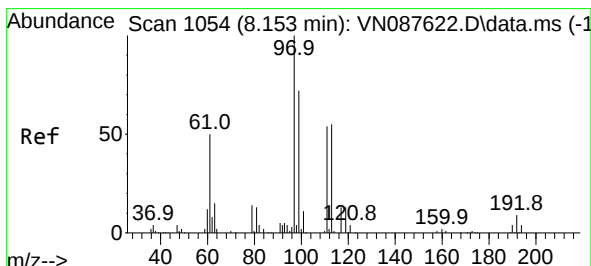
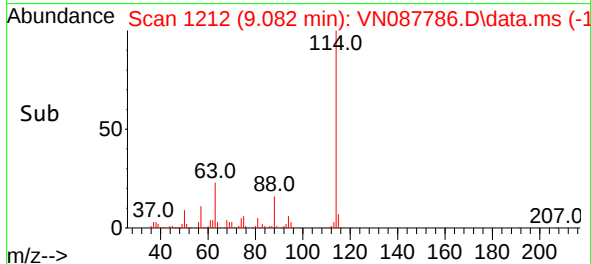
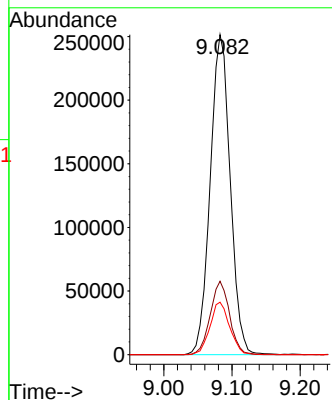
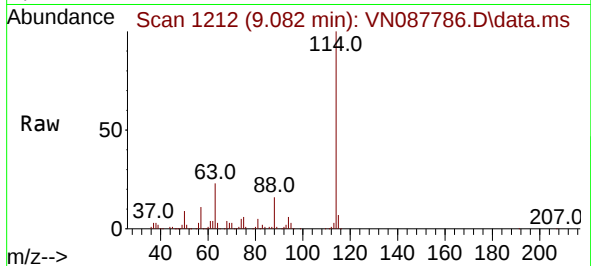




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

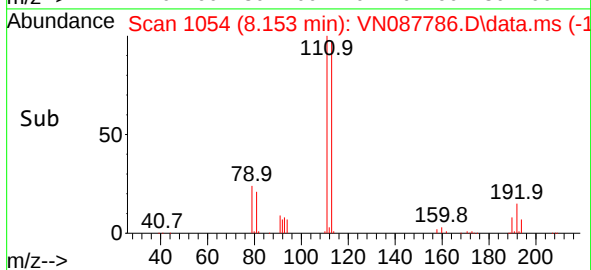
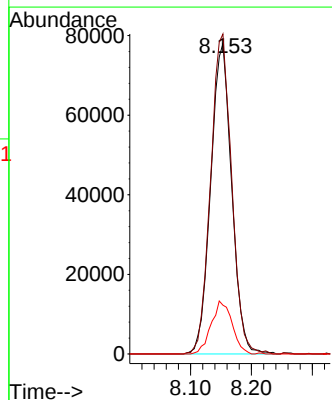
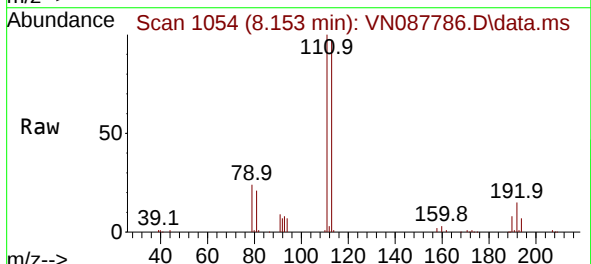
Instrument :
MSVOA_N
ClientSampleId :
DNAPL-OILDL

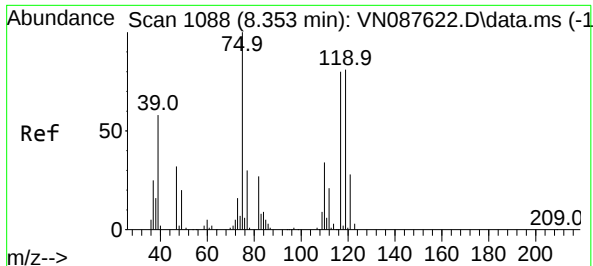
Tgt Ion:114 Resp: 513405
Ion Ratio Lower Upper
114 100
63 22.9 0.0 45.2
88 16.4 0.0 33.4



#35
Dibromofluoromethane
Concen: 50.267 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Tgt Ion:113 Resp: 186328
Ion Ratio Lower Upper
113 100
111 103.5 82.8 124.2
192 17.0 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.678 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087786.D

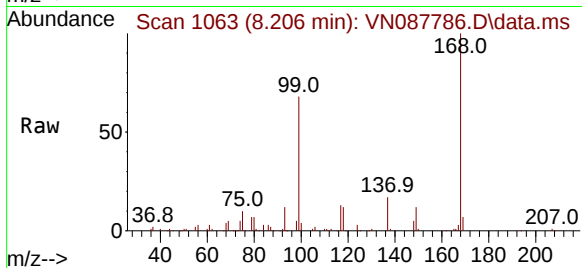
Acq: 10 Sep 2025 17:11

Instrument :

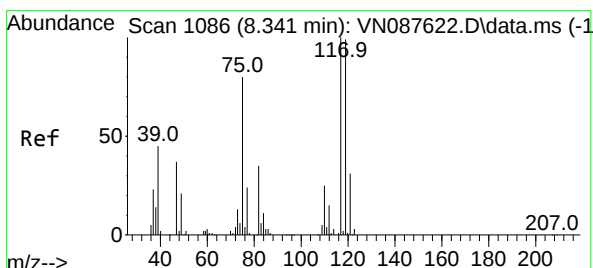
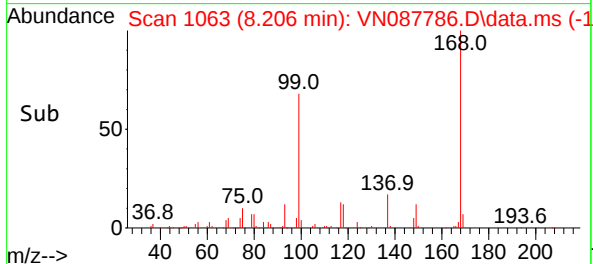
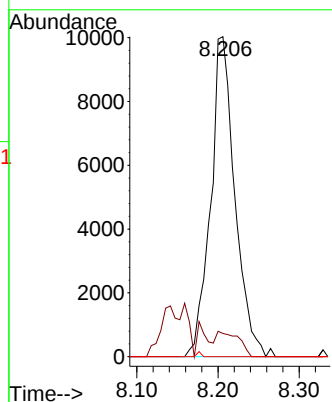
MSVOA_N

ClientSampleId :

DNAPL-OILDL



Tgt Ion:	75	Resp:	20918
Ion Ratio	Lower	Upper	
75	100		
110	7.1	15.9	47.6#
77	0.0	24.4	36.6#



#38

Carbon Tetrachloride

Concen: 4.691 ug/l

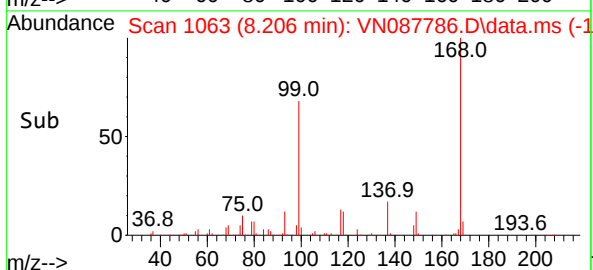
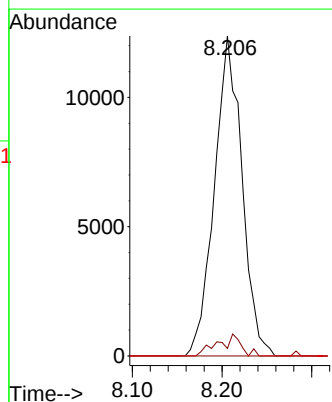
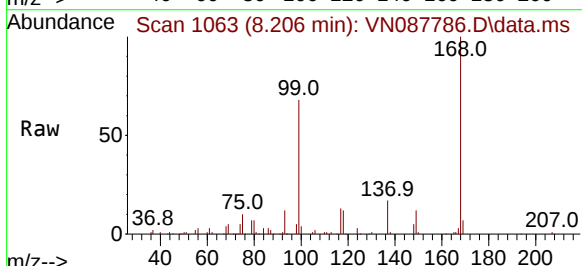
RT: 8.206 min Scan# 1063

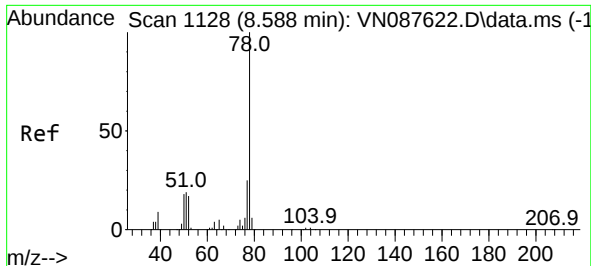
Delta R.T. -0.135 min

Lab File: VN087786.D

Acq: 10 Sep 2025 17:11

Tgt Ion:	117	Resp:	26338
Ion Ratio	Lower	Upper	
117	100		
119	2.4	79.0	118.6#
121	0.0	25.0	37.6#

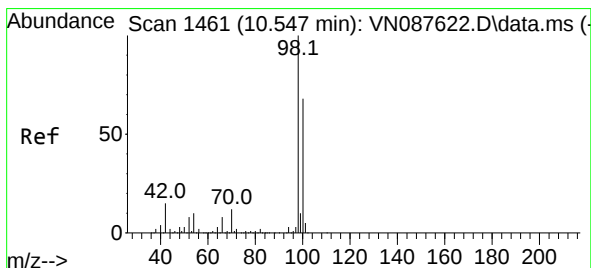
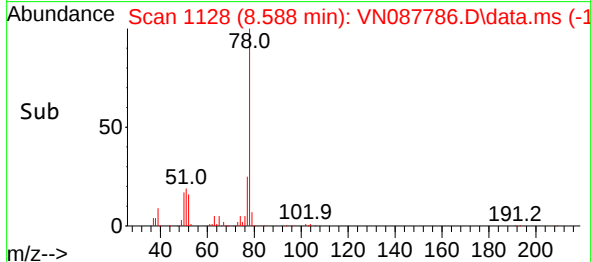
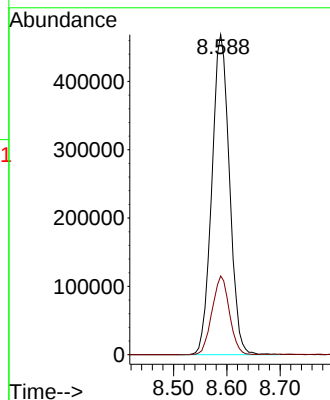
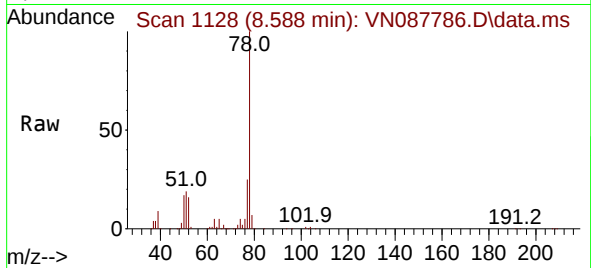




#40
Benzene
Concen: 61.604 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

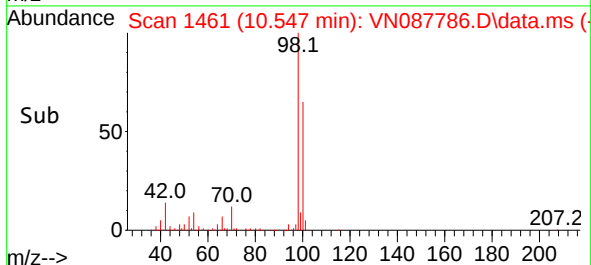
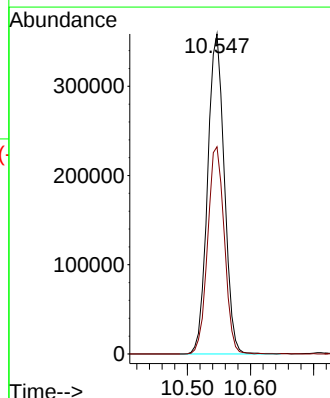
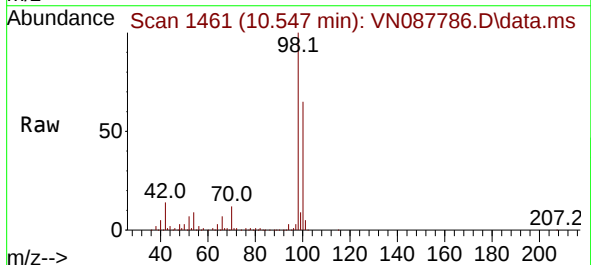
Instrument :
MSVOA_N
ClientSampleId :
DNAPL-OILDL

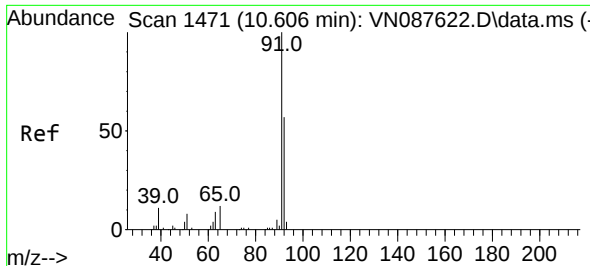
Tgt Ion: 78 Resp: 1074489
Ion Ratio Lower Upper
78 100
77 24.6 19.7 29.5



#50
Toluene-d8
Concen: 47.486 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Tgt Ion: 98 Resp: 658805
Ion Ratio Lower Upper
98 100
100 64.6 52.8 79.2

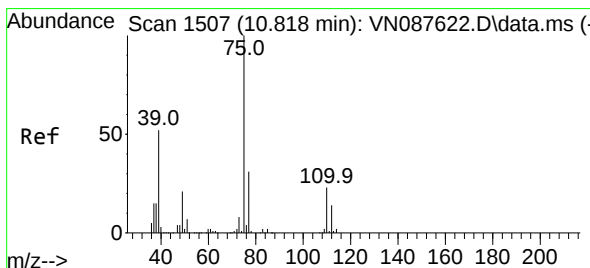
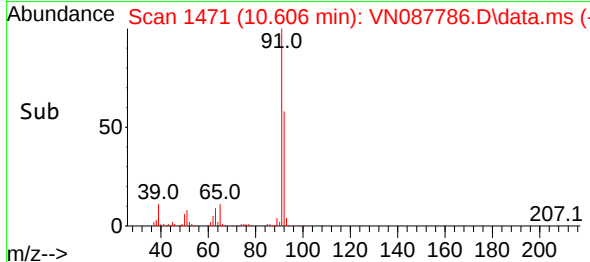
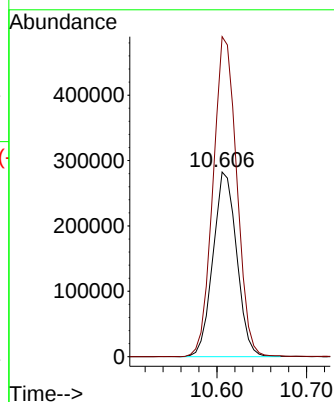
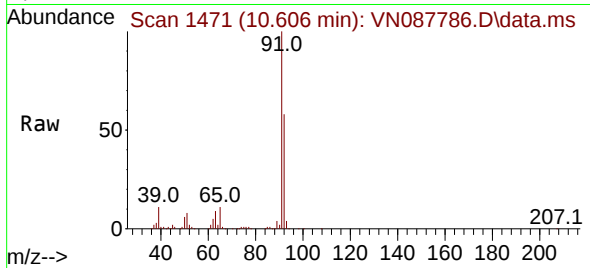




#52
Toluene
Concen: 47.846 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

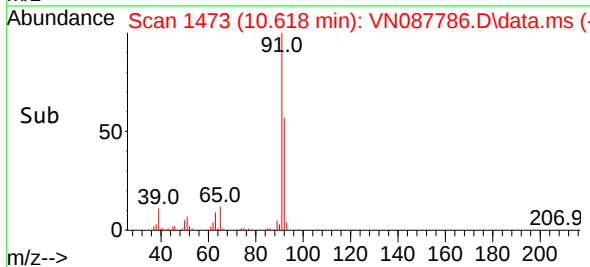
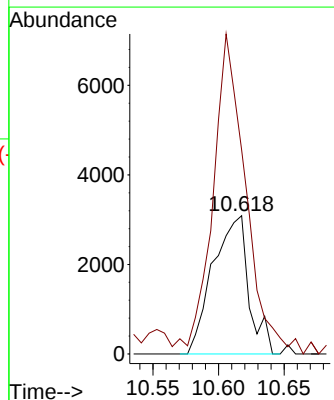
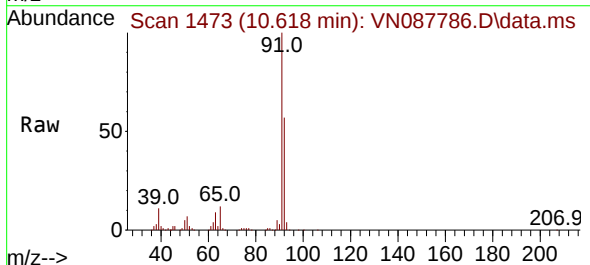
Instrument :
MSVOA_N
ClientSampleId :
DNAPL-OILDL

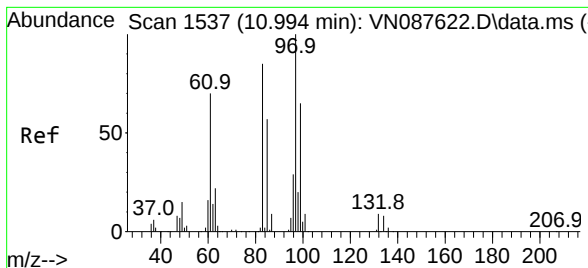
Tgt Ion: 92 Resp: 517351
Ion Ratio Lower Upper
92 100
91 174.2 140.4 210.6



#53
t-1,3-Dichloropropene
Concen: 0.846 ug/l
RT: 10.618 min Scan# 1473
Delta R.T. -0.200 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Tgt Ion: 75 Resp: 5871
Ion Ratio Lower Upper
75 100
77 136.6 25.2 37.8#

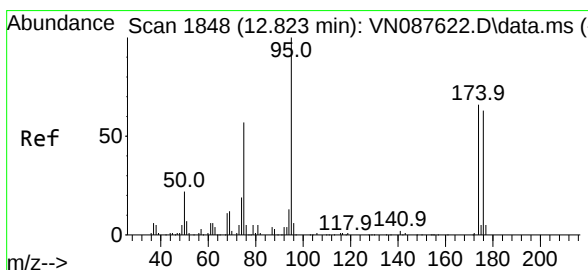
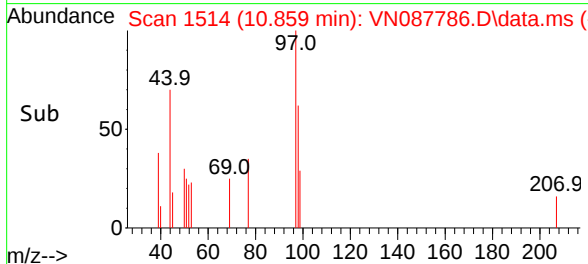
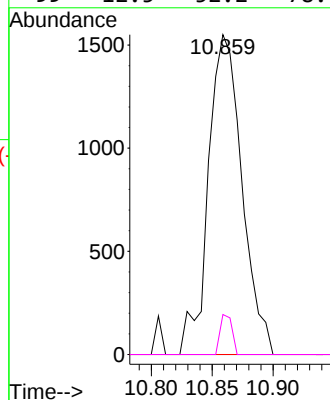
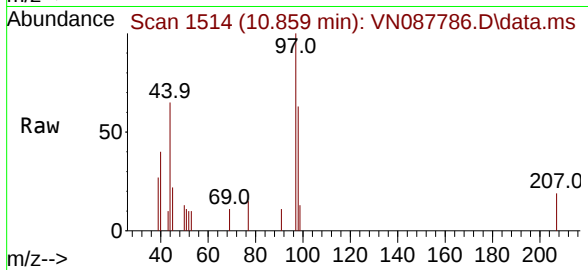




#55
 1,1,2-Trichloroethane
 Concen: 0.714 ug/l
 RT: 10.859 min Scan# 1514
 Delta R.T. -0.135 min
 Lab File: VN087786.D
 Acq: 10 Sep 2025 17:11

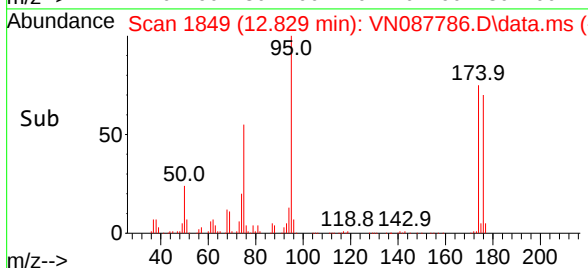
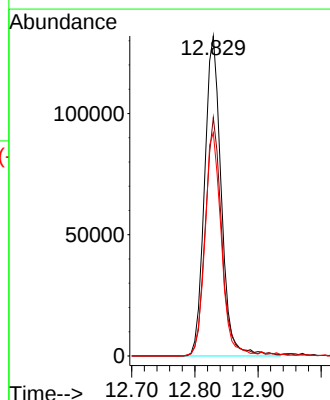
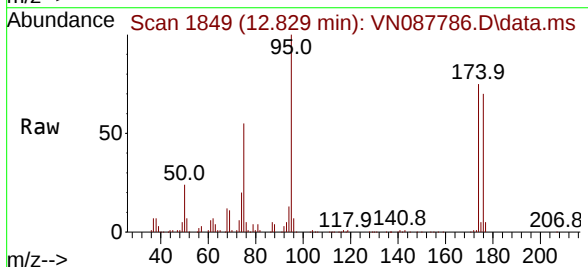
Instrument :
 MSVOA_N
 ClientSampleId :
 DNAPL-OILDL

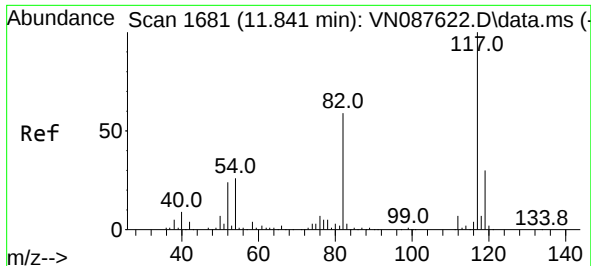
Tgt Ion: 97	Resp:	2985
Ion	Ratio	Lower Upper
97	100	
83	0.0	68.2 102.4#
85	0.0	45.5 68.3#
99	12.5	52.2 78.4#



#62
 4-Bromofluorobenzene
 Concen: 49.055 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.006 min
 Lab File: VN087786.D
 Acq: 10 Sep 2025 17:11

Tgt Ion: 95	Resp:	242033
Ion	Ratio	Lower Upper
95	100	
174	73.6	0.0 138.4
176	68.7	0.0 132.6

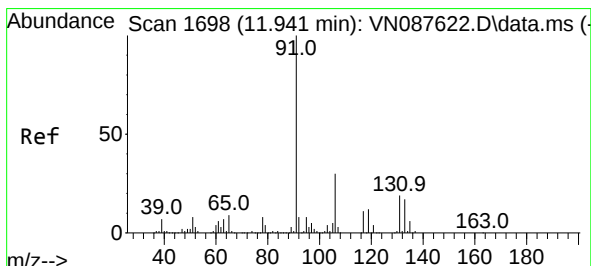
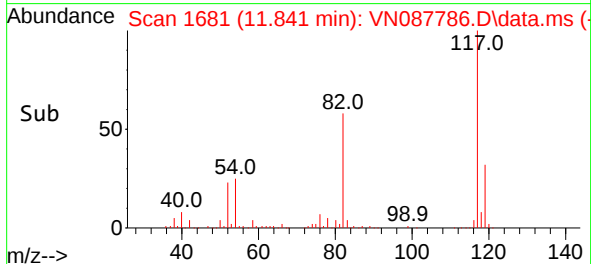
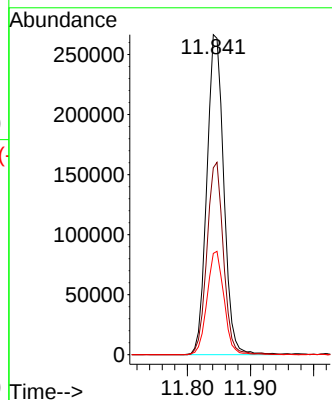
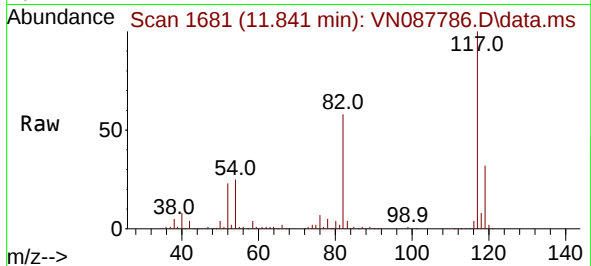




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1177
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

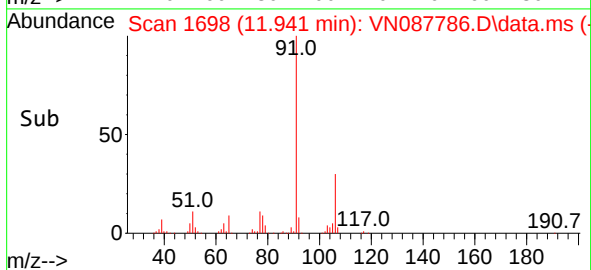
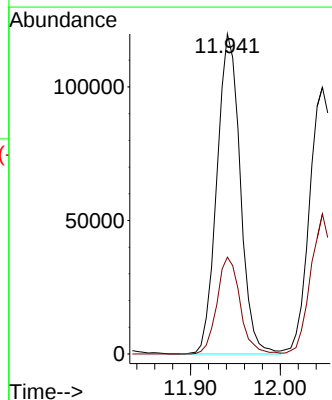
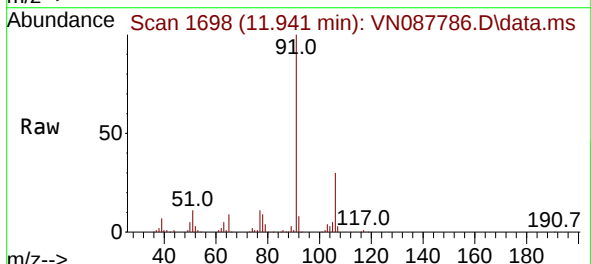
Instrument :
MSVOA_N
ClientSampleId :
DNAPL-OILDL

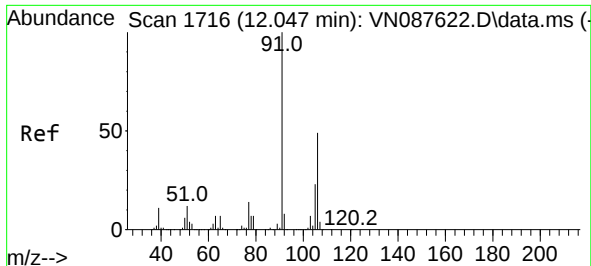
Tgt Ion:117 Resp: 495256
Ion Ratio Lower Upper
117 100
82 58.4 47.4 71.2
119 31.6 24.3 36.5



#67
Ethyl Benzene
Concen: 10.154 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Tgt Ion: 91 Resp: 216607
Ion Ratio Lower Upper
91 100
106 30.2 24.1 36.1

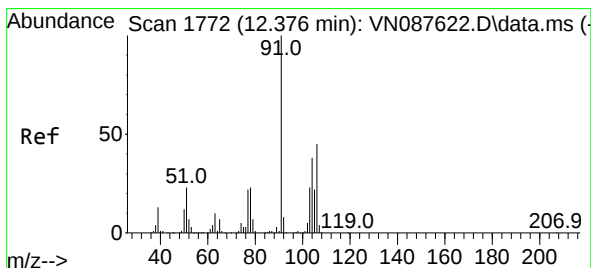
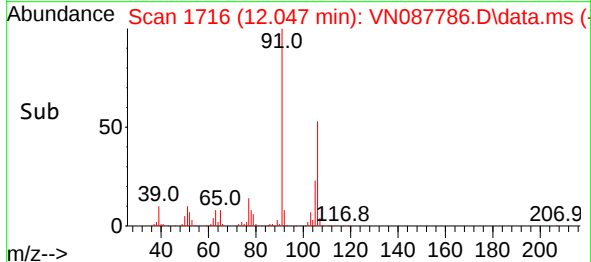
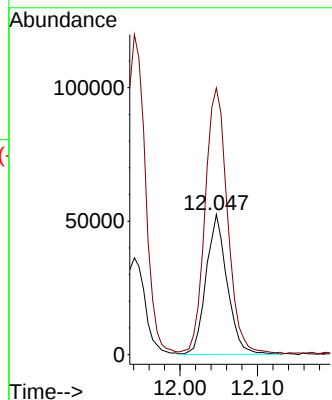
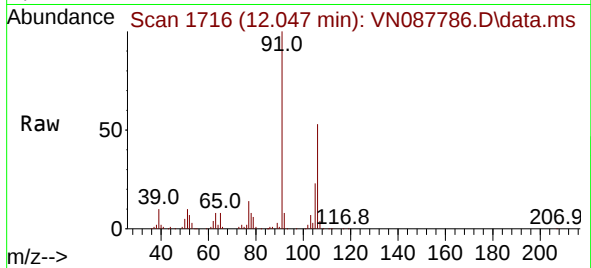




#68
m/p-Xylenes
Concen: 12.643 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

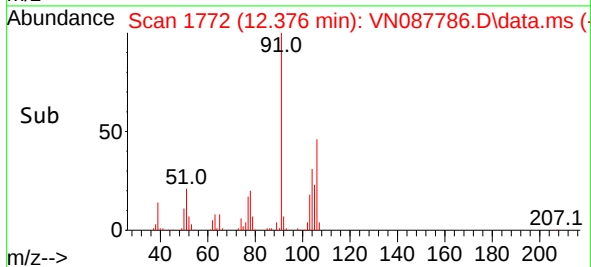
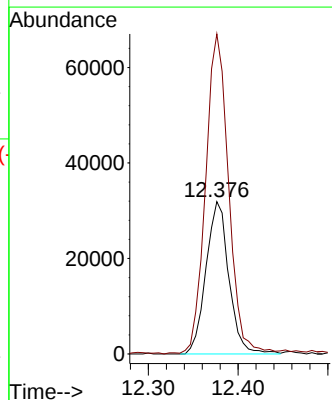
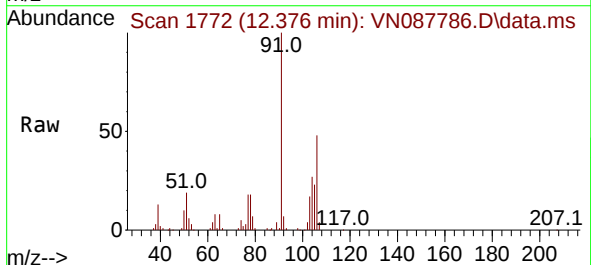
Instrument :
MSVOA_N
ClientSampleId :
DNAPL-OILDL

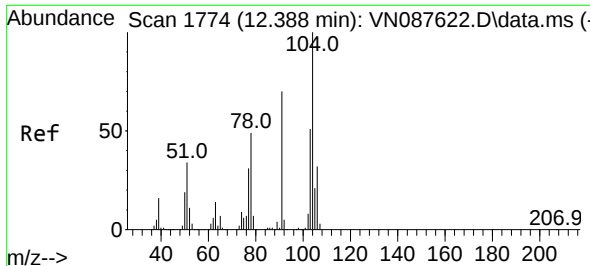
Tgt Ion:106 Resp: 98917
Ion Ratio Lower Upper
106 100
91 202.9 169.3 253.9



#69
o-Xylene
Concen: 7.381 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Tgt Ion:106 Resp: 56595
Ion Ratio Lower Upper
106 100
91 211.6 111.4 334.2

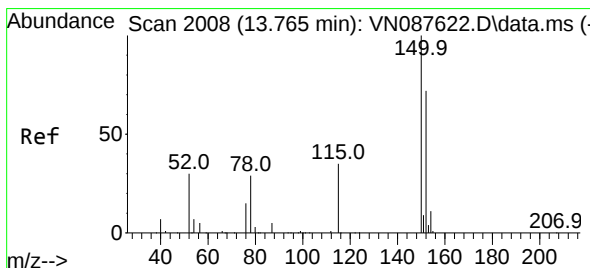
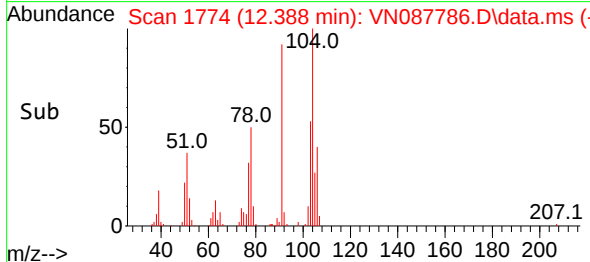
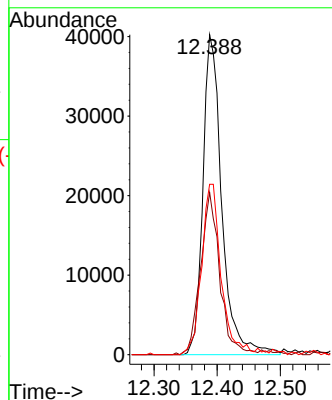
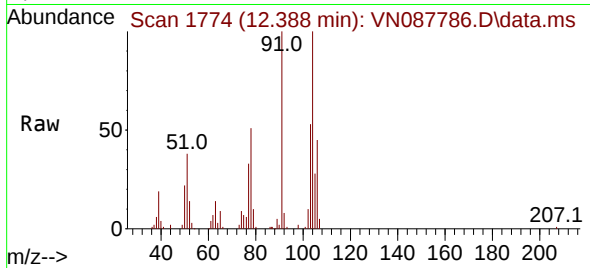




#70
 Styrene
 Concen: 6.521 ug/l
 RT: 12.388 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VN087786.D
 Acq: 10 Sep 2025 17:11

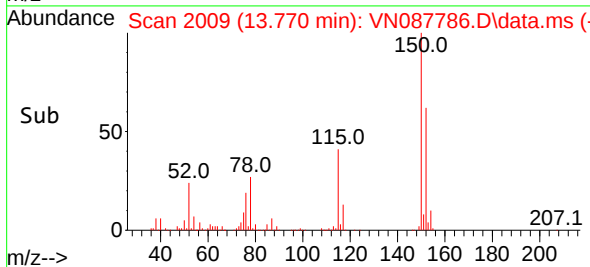
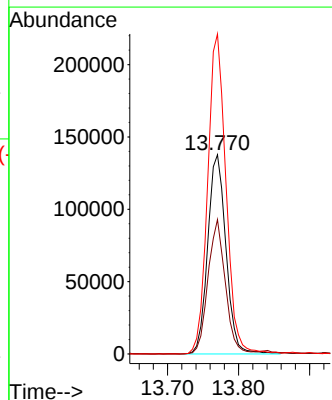
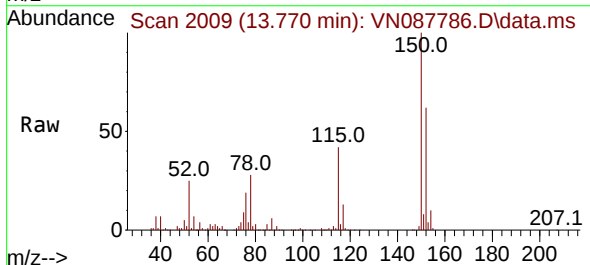
Instrument :
 MSVOA_N
 ClientSampleId :
 DNAPL-OILDL

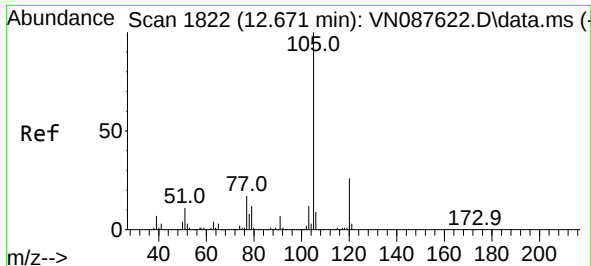
Tgt Ion:104 Resp: 83769
 Ion Ratio Lower Upper
 104 100
 78 51.6 42.2 63.2
 103 55.0 43.4 65.2



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.006 min
 Lab File: VN087786.D
 Acq: 10 Sep 2025 17:11

Tgt Ion:152 Resp: 246497
 Ion Ratio Lower Upper
 152 100
 115 63.9 32.3 96.8
 150 160.7 0.0 351.0

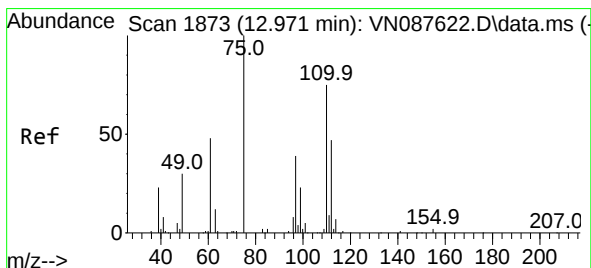
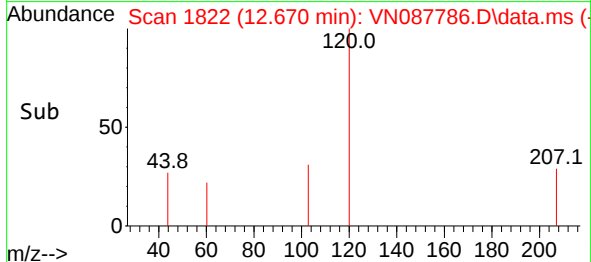
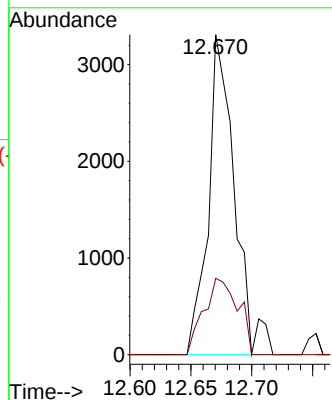
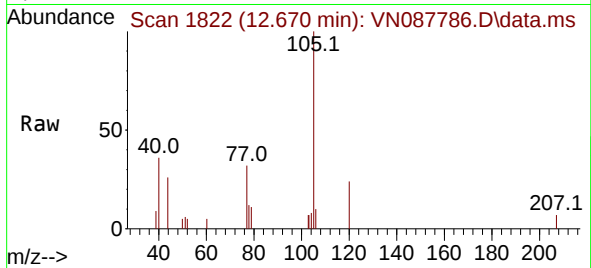




#73
Isopropylbenzene
Concen: 0.249 ug/l
RT: 12.670 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

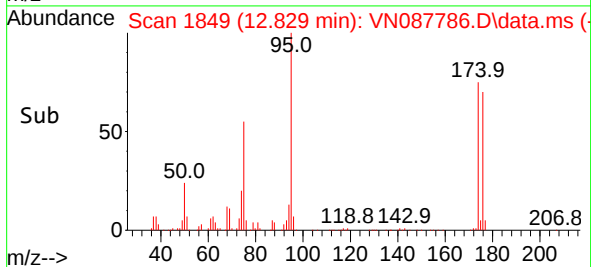
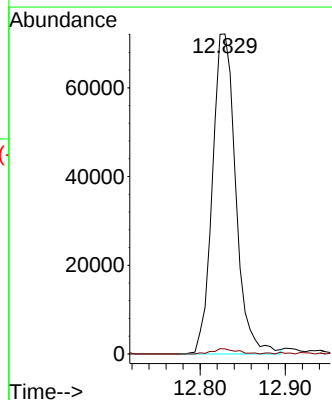
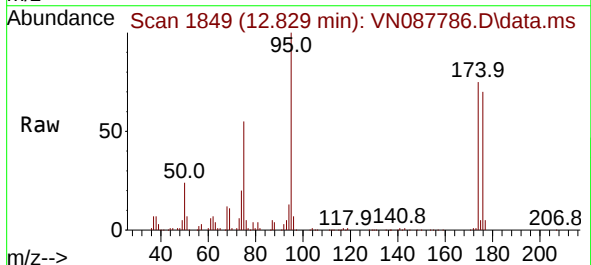
Instrument :
MSVOA_N
ClientSampleId :
DNAPL-OILDL

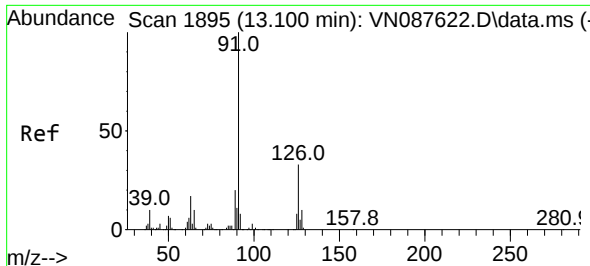
Tgt Ion:105 Resp: 4953
Ion Ratio Lower Upper
105 100
120 31.0 12.8 38.3



#76
1,2,3-Trichloropropane
Concen: 23.704 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Tgt Ion: 75 Resp: 137021
Ion Ratio Lower Upper
75 100
77 1.7 89.1 267.4#

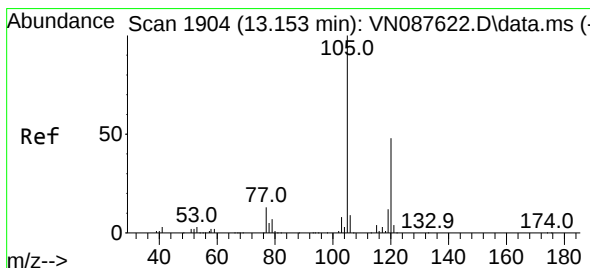
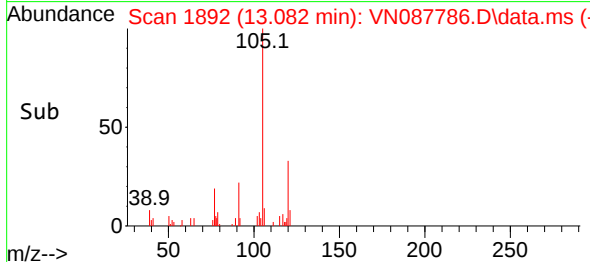
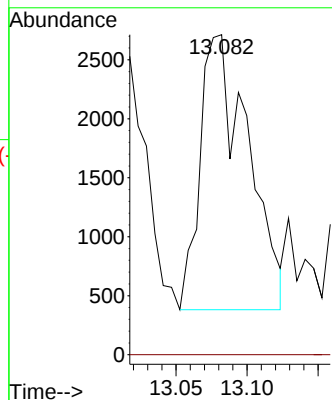
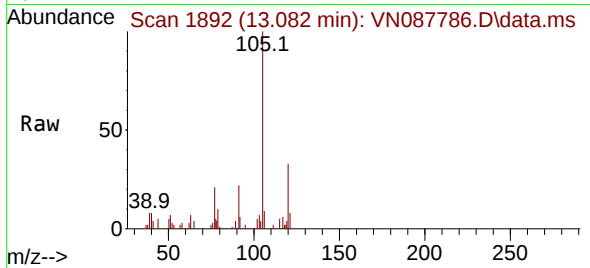




#79
2-Chlorotoluene
Concen: 0.370 ug/l
RT: 13.082 min Scan# 1892
Delta R.T. -0.018 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

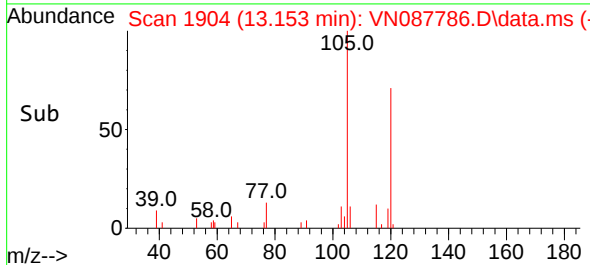
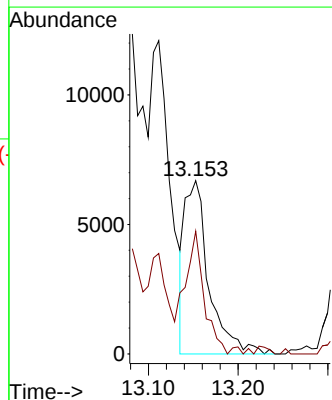
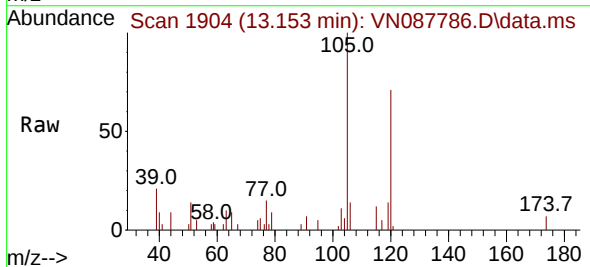
Instrument :
MSVOA_N
ClientSampleId :
DNAPL-OILDL

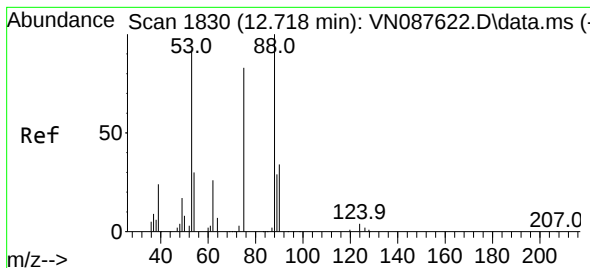
Tgt Ion: 91 Resp: 5459
Ion Ratio Lower Upper
91 100
126 0.0 16.1 48.3#



#80
1,3,5-Trimethylbenzene
Concen: 0.743 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Tgt Ion: 105 Resp: 12557
Ion Ratio Lower Upper
105 100
120 56.1 23.2 69.6

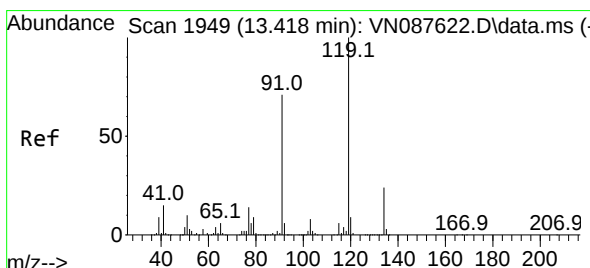
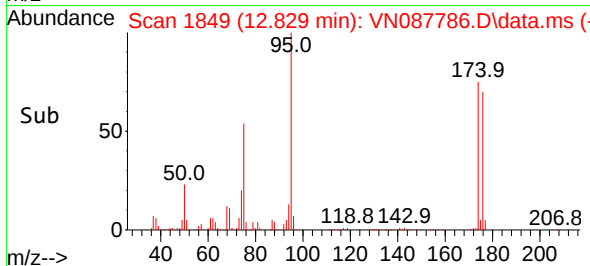
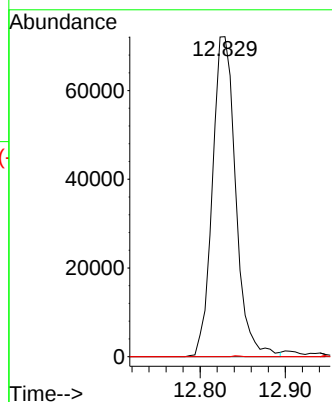
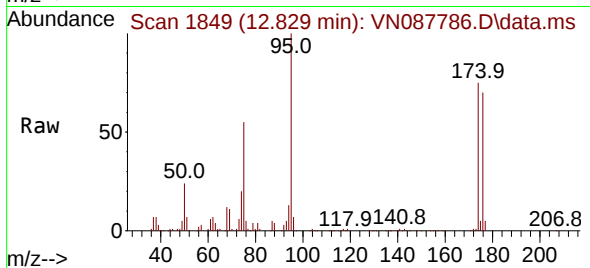




#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.754 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087786.D
 Acq: 10 Sep 2025 17:11

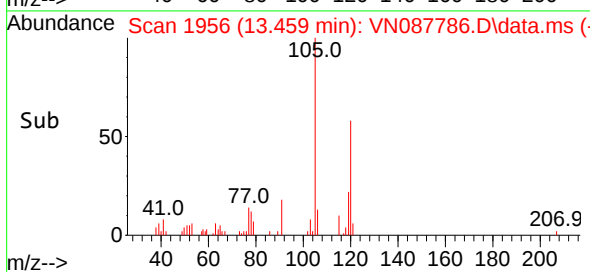
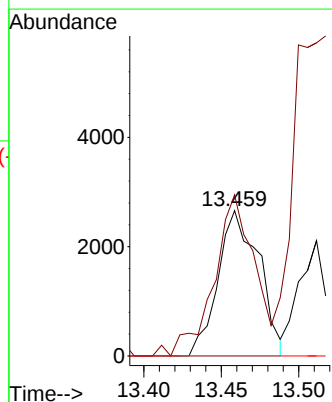
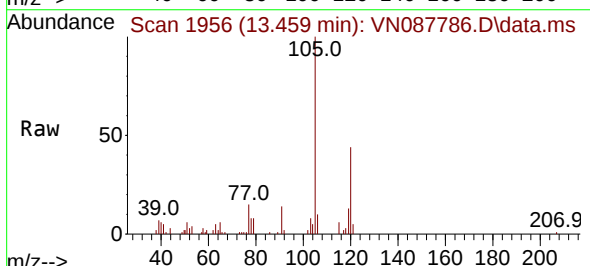
Instrument :
 MSVOA_N
 ClientSampleId :
 DNAPL-OILDL

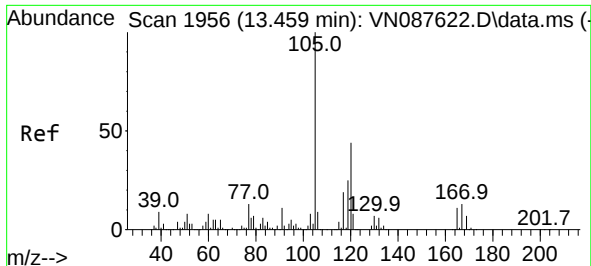
Tgt Ion: 75 Resp: 137021
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.1 35.6 53.4#



#83
 tert-Butylbenzene
 Concen: 0.348 ug/l
 RT: 13.459 min Scan# 1956
 Delta R.T. 0.041 min
 Lab File: VN087786.D
 Acq: 10 Sep 2025 17:11

Tgt Ion: 119 Resp: 4899
 Ion Ratio Lower Upper
 119 100
 91 109.3 35.0 105.0#
 134 0.0 12.6 37.8#

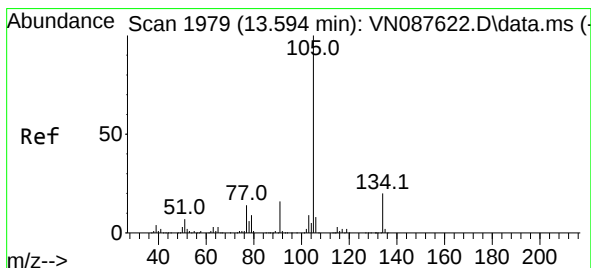
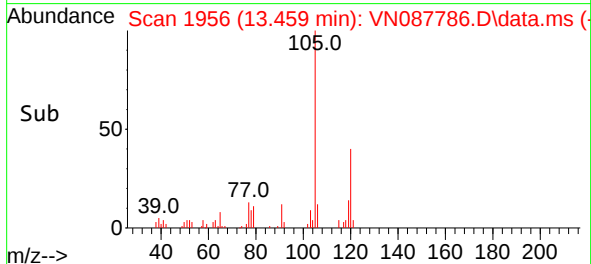
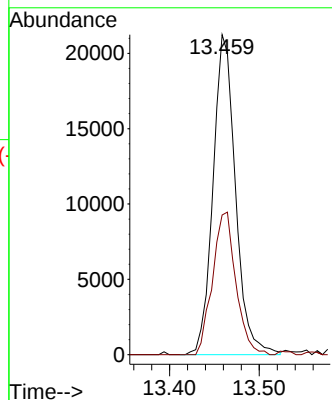
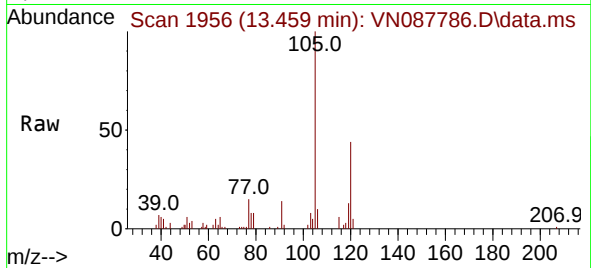




#84
1,2,4-Trimethylbenzene
Concen: 2.185 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

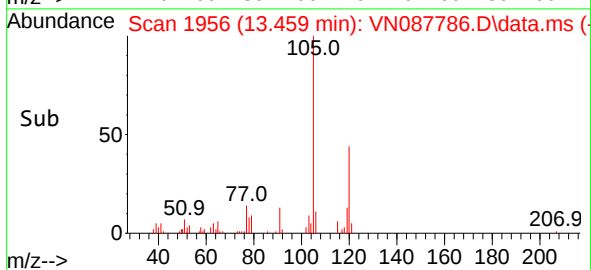
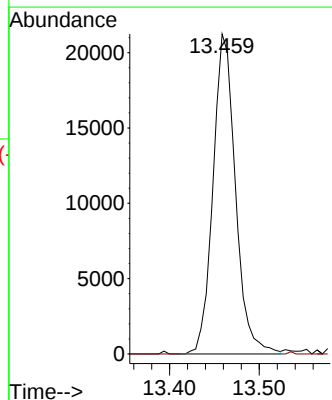
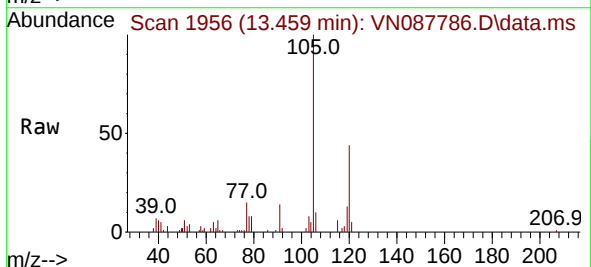
Instrument :
MSVOA_N
ClientSampleId :
DNAPL-OILDL

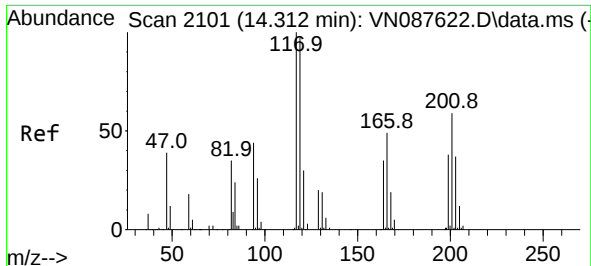
Tgt Ion:105 Resp: 36959
Ion Ratio Lower Upper
105 100
120 46.2 22.0 66.0



#85
sec-Butylbenzene
Concen: 1.769 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.135 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Tgt Ion:105 Resp: 36959
Ion Ratio Lower Upper
105 100
134 0.0 9.6 28.6#

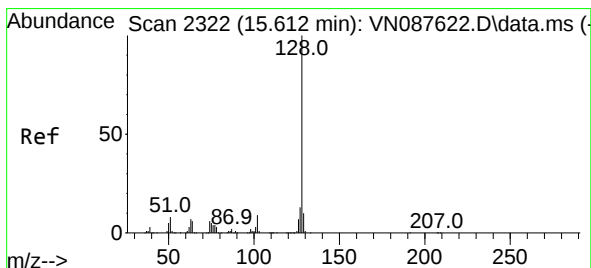
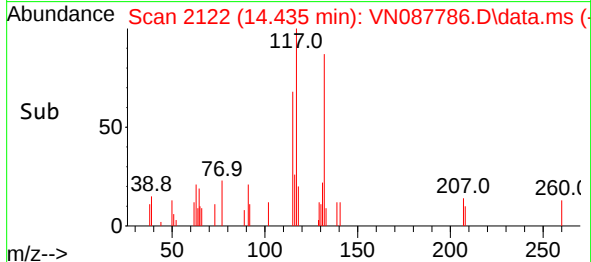
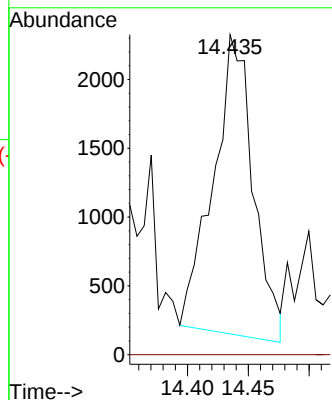
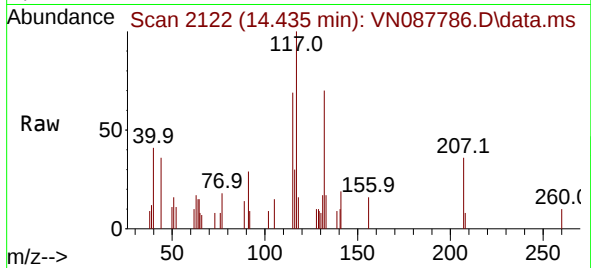




#90
Hexachloroethane
Concen: 1.511 ug/l
RT: 14.435 min Scan# 2101
Delta R.T. 0.123 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Instrument :
MSVOA_N
ClientSampleId :
DNAPL-OILDL

Tgt Ion:117 Resp: 4966
Ion Ratio Lower Upper
117 100
201 0.0 29.1 87.4#



#95
Naphthalene
Concen: 75.234 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. -0.000 min
Lab File: VN087786.D
Acq: 10 Sep 2025 17:11

Tgt Ion:128 Resp: 1404049
Ion Ratio Lower Upper
128 100
127 13.1 10.6 15.8
129 10.8 8.6 12.8

