

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030625\
 Data File : VN085909.D
 Acq On : 06 Mar 2025 19:31
 Operator : JC\MD
 Sample : PB166989ZHE#11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166989ZHE#11

Quant Time: Mar 07 00:44:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

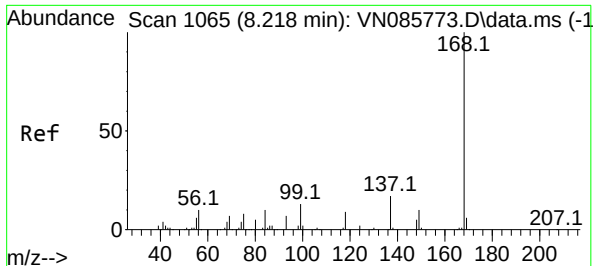
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	136451	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	257246	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	248701	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	92859	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	103716	58.628	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.260%			
35) Dibromofluoromethane	8.165	113	90716	53.892	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.780%			
50) Toluene-d8	10.565	98	326694	53.344	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.680%			
62) 4-Bromofluorobenzene	12.847	95	100159	49.637	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.280%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.500	59	157	0.722	ug/l #	72
16) Acetone	4.430	43	31050	55.471	ug/l	97
18) Methyl Acetate	5.024	43	1269	0.659	ug/l	91
20) Methylene Chloride	5.283	84	2599	1.444	ug/l #	73
25) 2-Butanone	7.477	43	3404	4.134	ug/l #	84
29) Tetrahydrofuran	7.859	42	134	0.252	ug/l #	29
31) Cyclohexane	8.235	56	2620	1.037	ug/l #	31
36) 1,1-Dichloropropene	8.224	75	10891	4.572	ug/l #	48
37) Ethyl Acetate	7.565	43	1142	0.583	ug/l #	66
38) Carbon Tetrachloride	8.224	117	14723	5.201	ug/l #	18
42) 1,2-Dichloroethane	8.682	62	498	0.200	ug/l #	73
43) Isopropyl Acetate	8.688	43	63540	18.119	ug/l #	84
45) 1,2-Dichloropropane	9.741	63	708	0.384	ug/l #	43
48) Methyl methacrylate	9.741	41	56010	38.469	ug/l #	37
49) 1,4-Dioxane	9.741	88	128	4.623	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	3431	1.815	ug/l	93
54) cis-1,3-Dichloropropene	10.353	75	25306	8.973	ug/l #	62
56) Ethyl methacrylate	10.982	69	1171	0.970	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	3583	1.206	ug/l #	42
59) 2-Hexanone	11.200	43	36891	28.370	ug/l #	53
74) N-amyl acetate	12.465	43	828	0.369	ug/l #	37
76) 1,2,3-Trichloropropane	12.847	75	51021	24.735	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	51021	72.170	ug/l #	12

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
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Response via : Initial Calibration

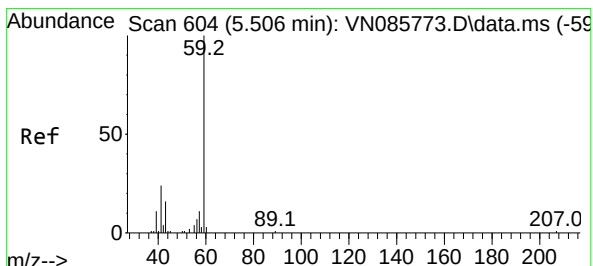
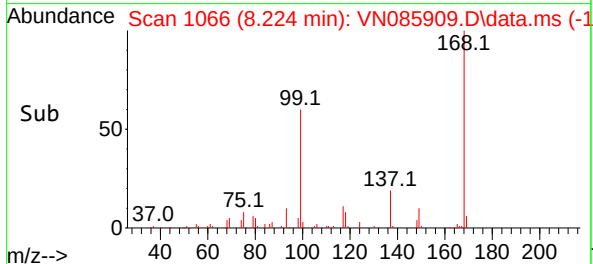
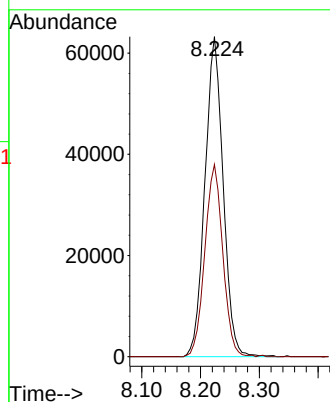
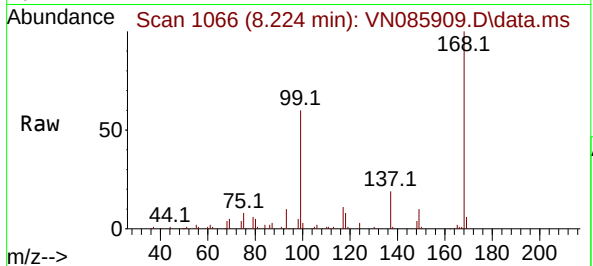




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

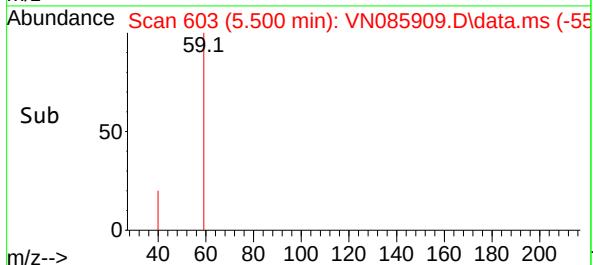
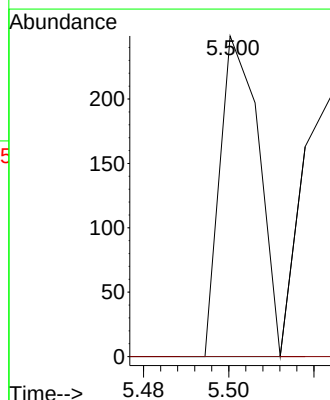
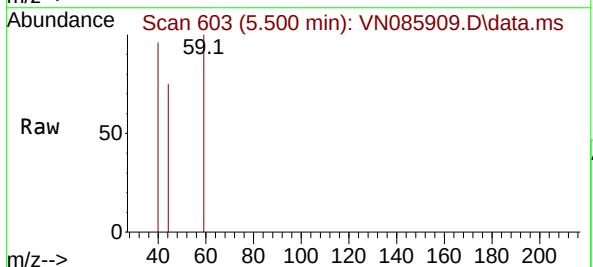
Instrument :
MSVOA_N
ClientSampleId :
PB166989ZHE#11

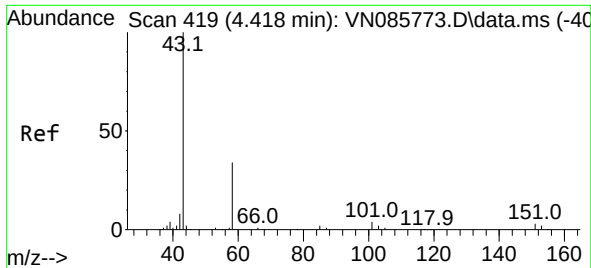
Tgt Ion:168 Resp: 136451
Ion Ratio Lower Upper
168 100
99 60.0 47.9 71.9



#11
Tert butyl alcohol
Concen: 0.722 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.006 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

Tgt Ion: 59 Resp: 157
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

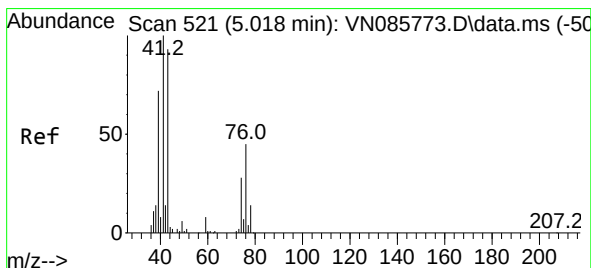
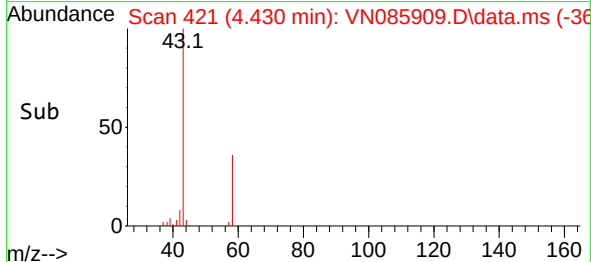
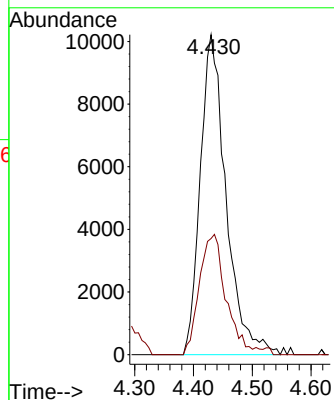
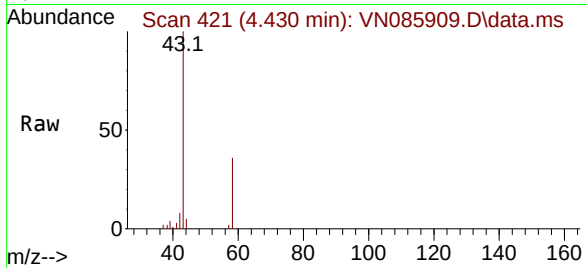




#16
Acetone
Concen: 55.471 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

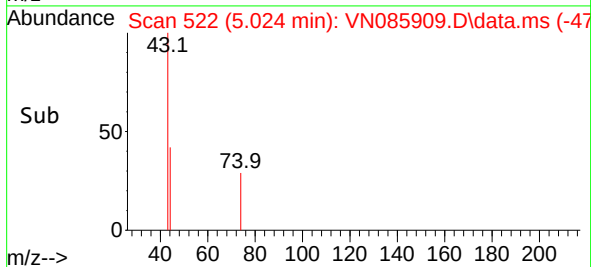
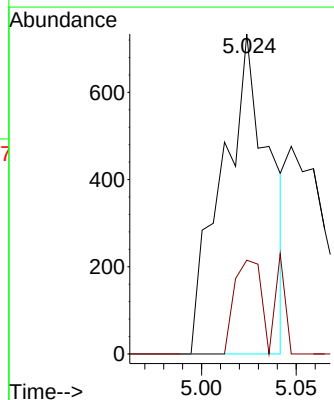
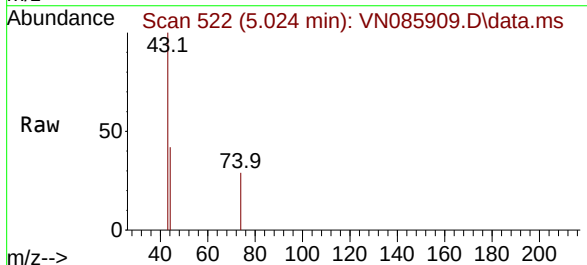
Instrument :
MSVOA_N
ClientSampleId :
PB166989ZHE#11

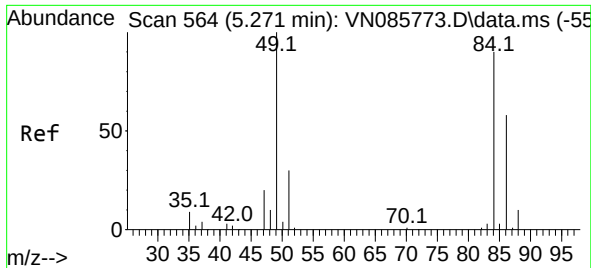
Tgt Ion: 43 Resp: 31050
Ion Ratio Lower Upper
43 100
58 36.3 27.5 41.3



#18
Methyl Acetate
Concen: 0.659 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

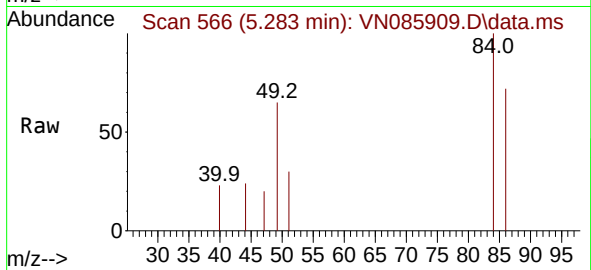
Tgt Ion: 43 Resp: 1269
Ion Ratio Lower Upper
43 100
74 22.9 22.2 33.4



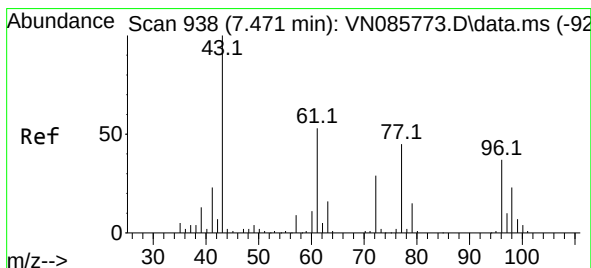
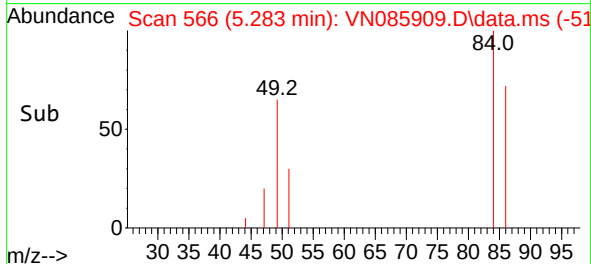
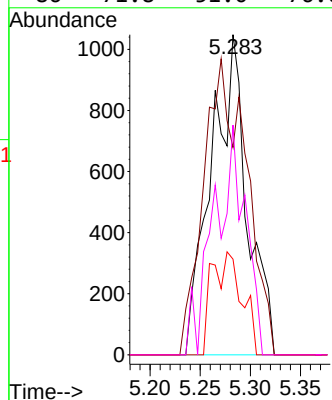


#20
Methylene Chloride
Concen: 1.444 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

Instrument :
MSVOA_N
ClientSampleId :
PB166989ZHE#11

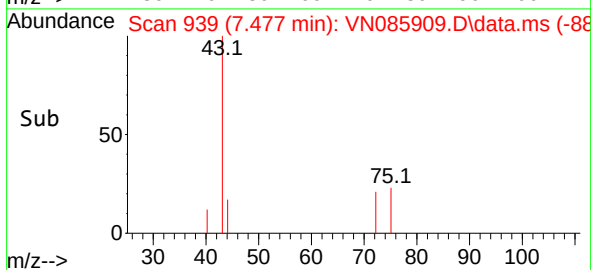
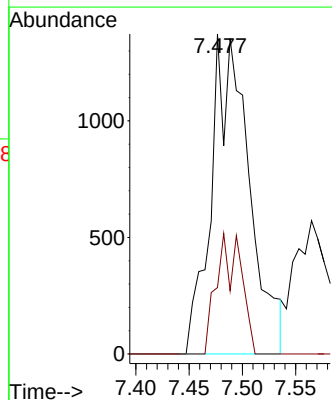
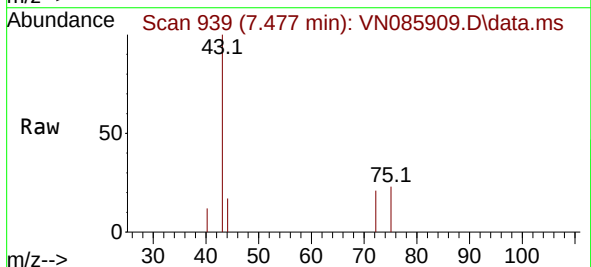


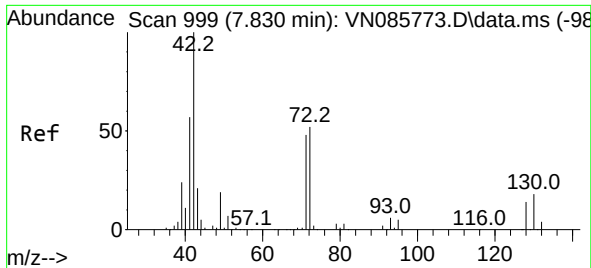
Tgt Ion:	84	Resp:	2599
Ion	Ratio	Lower	Upper
84	100		
49	64.8	88.4	132.6#
51	29.9	26.6	40.0
86	71.8	51.0	76.6



#25
2-Butanone
Concen: 4.134 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.006 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

Tgt Ion:	43	Resp:	3404
Ion	Ratio	Lower	Upper
43	100		
72	20.8	23.6	35.4#





#29

Tetrahydrofuran

Concen: 0.252 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.029 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

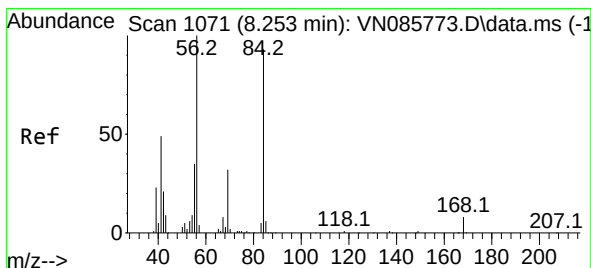
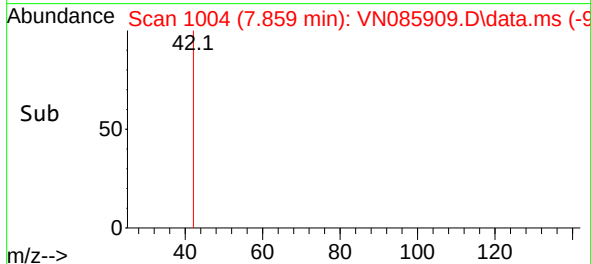
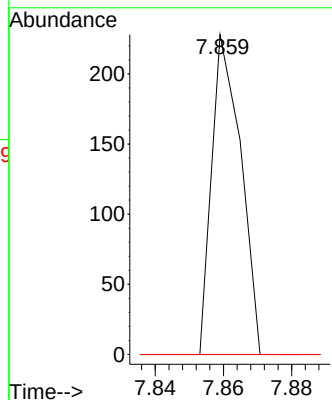
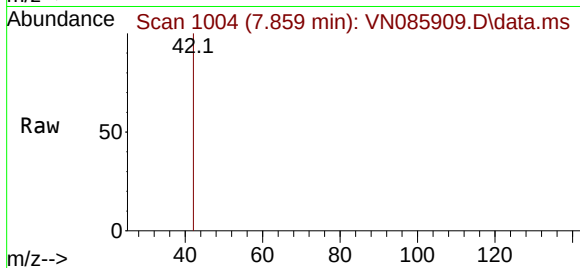
Instrument :

MSVOA_N

ClientSampleId :

PB166989ZHE#11

Tgt Ion:	42	Resp:	134
Ion	Ratio	Lower	Upper
42	100		
72	0.0	40.0	60.0#
71	0.0	37.0	55.4#



#31

Cyclohexane

Concen: 1.037 ug/l

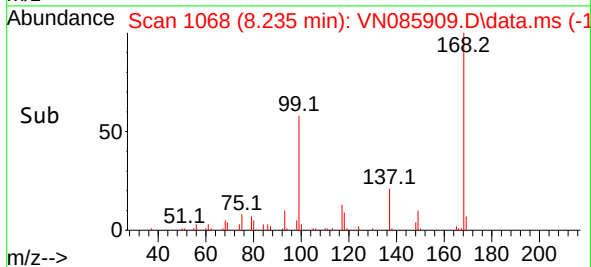
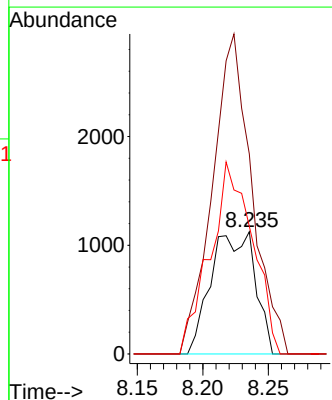
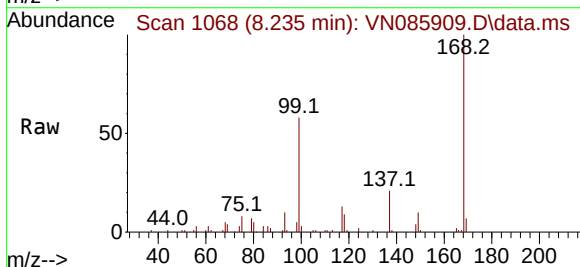
RT: 8.235 min Scan# 1068

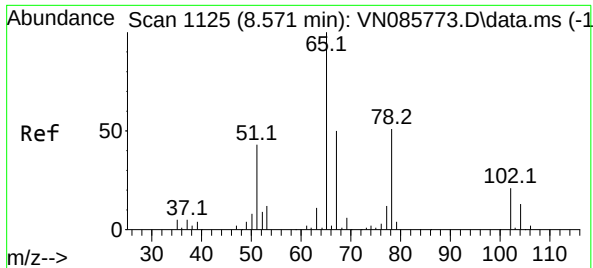
Delta R.T. -0.018 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

Tgt Ion:	56	Resp:	2620
Ion	Ratio	Lower	Upper
56	100		
69	163.5	25.8	38.6#
84	104.4	74.5	111.7





#33

1,2-Dichloroethane-d4

Concen: 58.628 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

Instrument :

MSVOA_N

ClientSampleId :

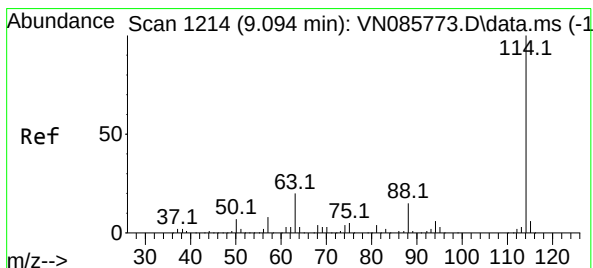
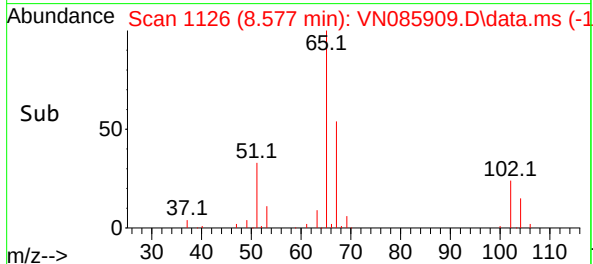
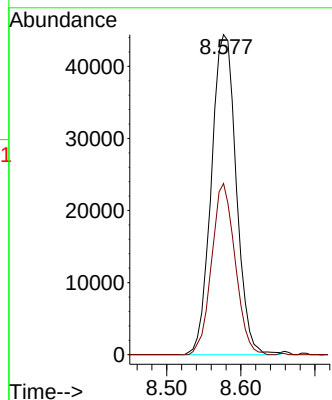
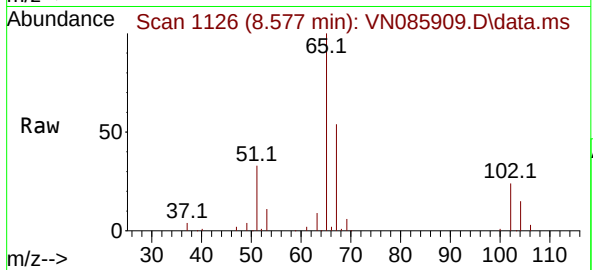
PB166989ZHE#11

Tgt Ion: 65 Resp: 103716

Ion Ratio Lower Upper

65 100

67 50.5 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

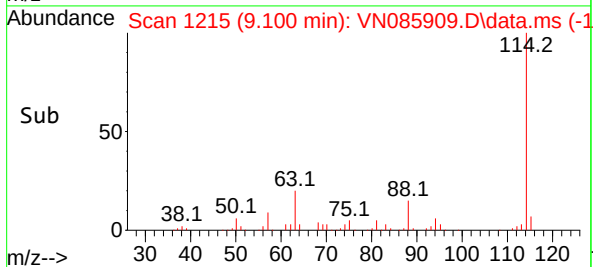
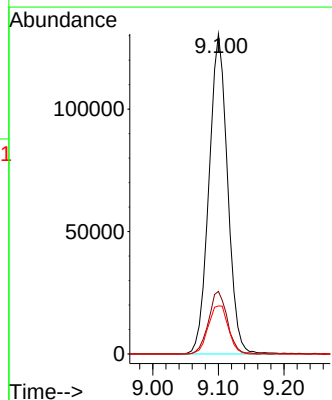
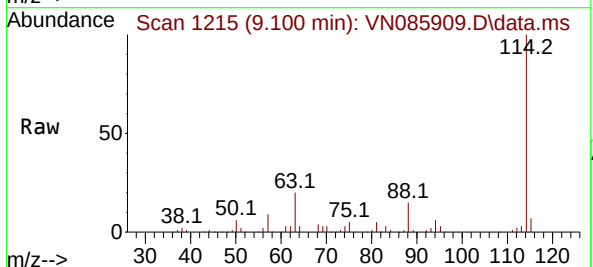
Tgt Ion: 114 Resp: 257246

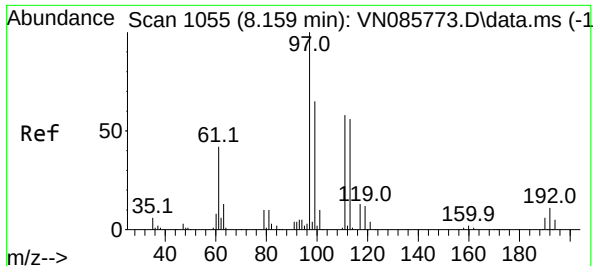
Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.2

88 15.0 0.0 30.0





#35

Dibromofluoromethane

Concen: 53.892 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

Instrument :

MSVOA_N

ClientSampleId :

PB166989ZHE#11

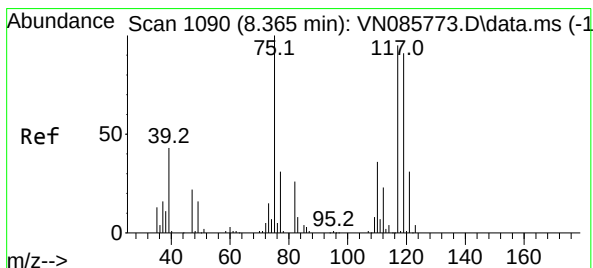
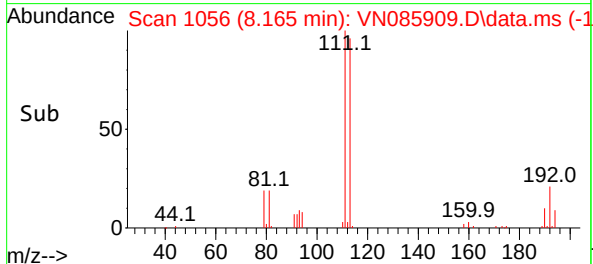
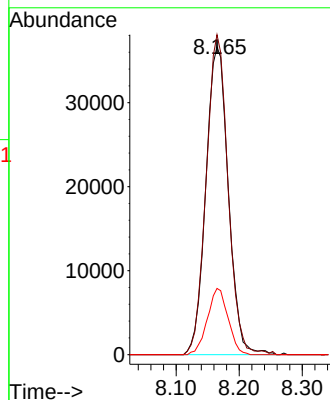
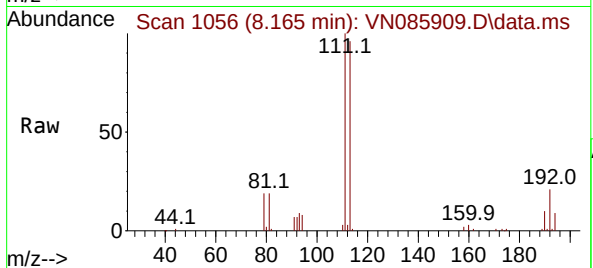
Tgt Ion:113 Resp: 90716

Ion Ratio Lower Upper

113 100

111 100.9 82.2 123.4

192 19.8 14.7 22.1



#36

1,1-Dichloropropene

Concen: 4.572 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

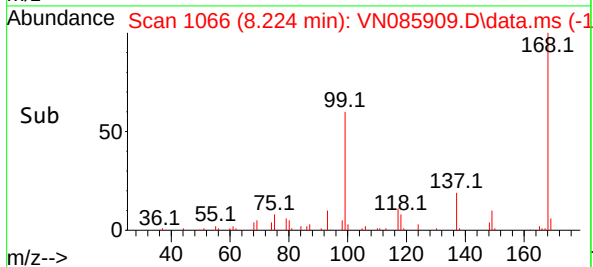
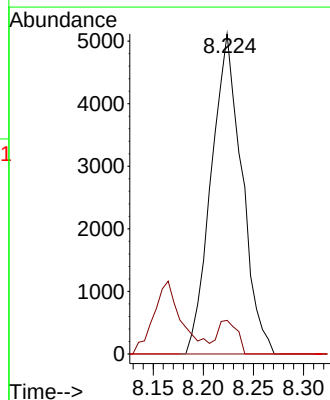
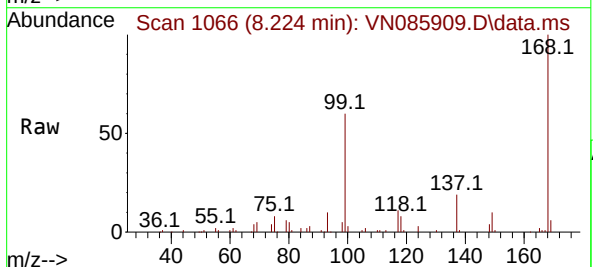
Tgt Ion: 75 Resp: 10891

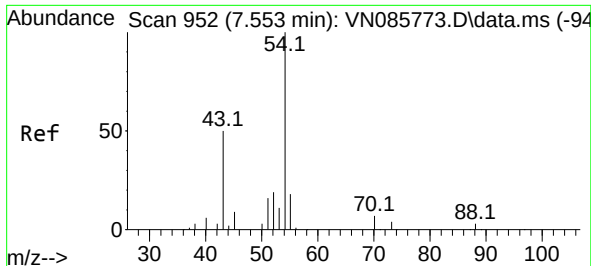
Ion Ratio Lower Upper

75 100

110 6.7 17.3 52.0#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 0.583 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

Instrument :

MSVOA_N

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PB166989ZHE#11

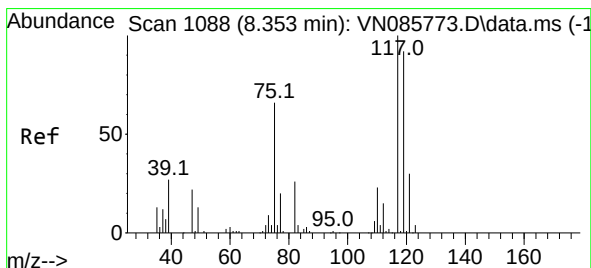
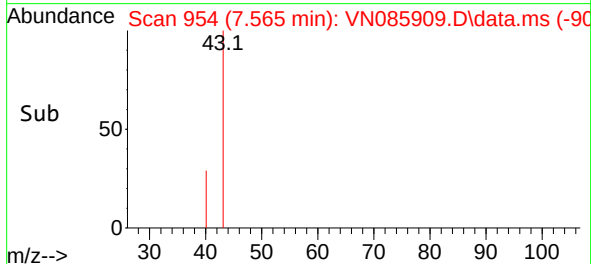
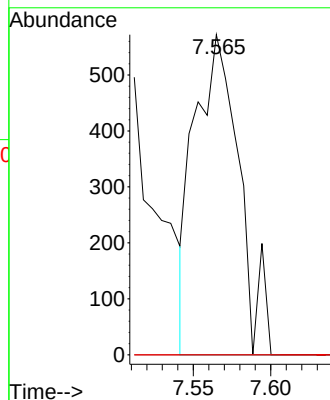
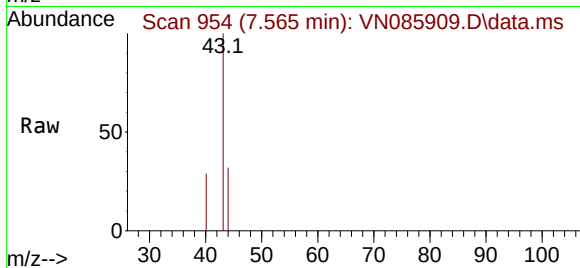
Tgt Ion: 43 Resp: 1142

Ion Ratio Lower Upper

43 100

61 0.0 12.2 18.2#

70 0.0 9.5 14.3#



#38

Carbon Tetrachloride

Concen: 5.201 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.129 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

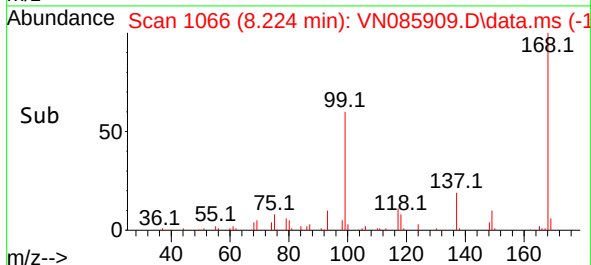
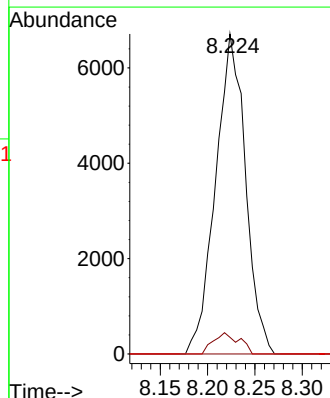
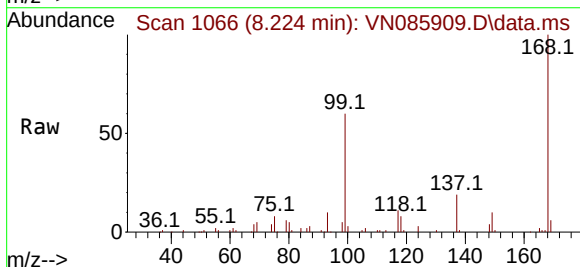
Tgt Ion: 117 Resp: 14723

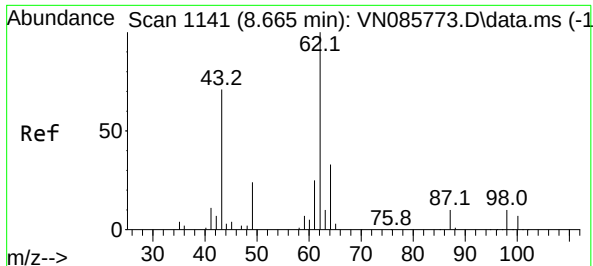
Ion Ratio Lower Upper

117 100

119 5.2 73.8 110.6#

121 0.0 24.3 36.5#





#42

1,2-Dichloroethane

Concen: 0.200 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.018 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

Instrument :

MSVOA_N

ClientSampleId :

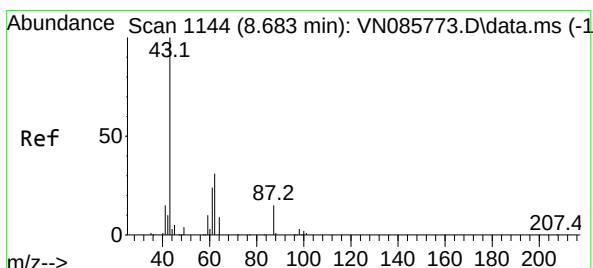
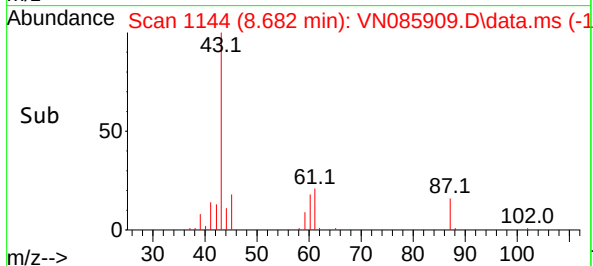
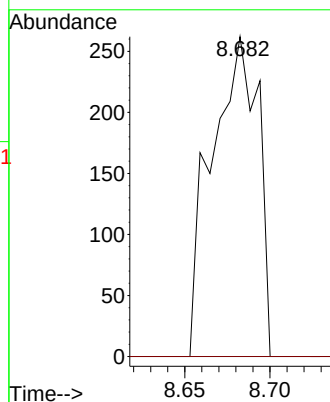
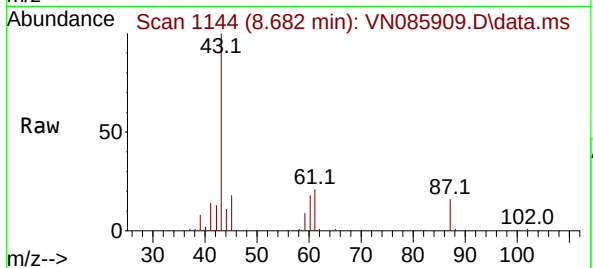
PB166989ZHE#11

Tgt Ion: 62 Resp: 498

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.6



#43

Isopropyl Acetate

Concen: 18.119 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.005 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

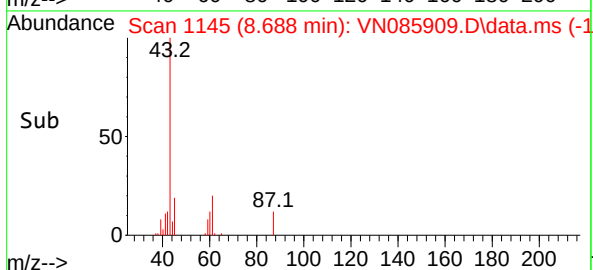
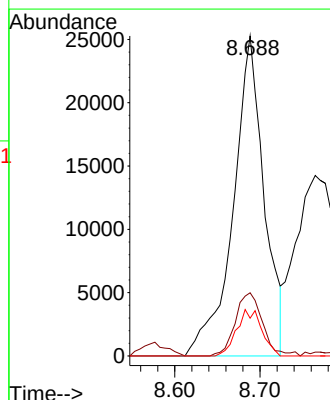
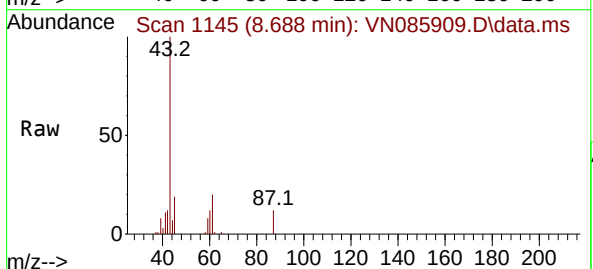
Tgt Ion: 43 Resp: 63540

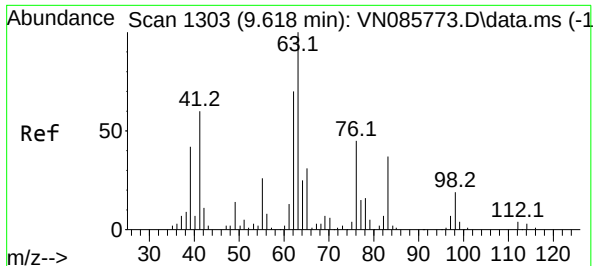
Ion Ratio Lower Upper

43 100

61 17.4 22.6 34.0#

87 11.8 11.8 17.8#





#45

1,2-Dichloropropane

Concen: 0.384 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

Instrument :

MSVOA_N

ClientSampleId :

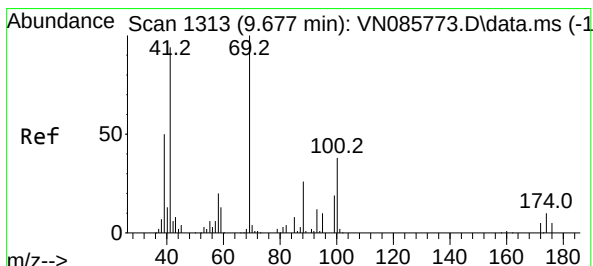
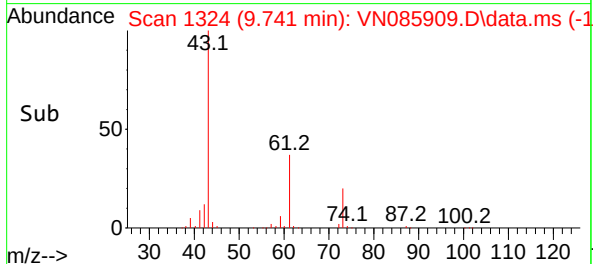
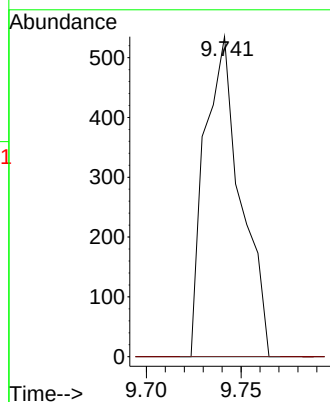
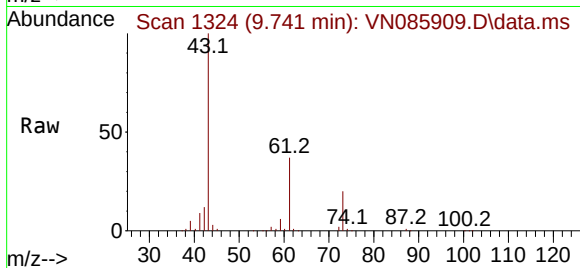
PB166989ZHE#11

Tgt Ion: 63 Resp: 708

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#



#48

Methyl methacrylate

Concen: 38.469 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

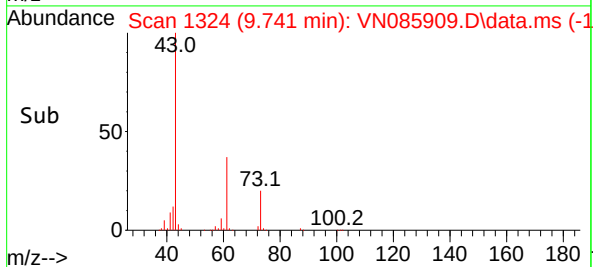
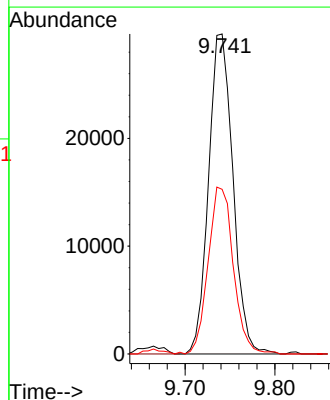
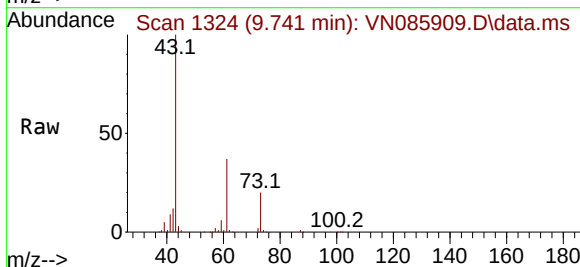
Tgt Ion: 41 Resp: 56010

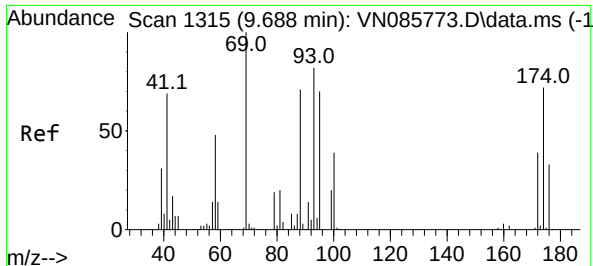
Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 54.1 42.3 63.5





#49

1,4-Dioxane

Concen: 4.623 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.053 min

Lab File: VN085909.D

Acq: 06 Mar 2025 19:31

Instrument :

MSVOA_N

ClientSampleId :

PB166989ZHE#11

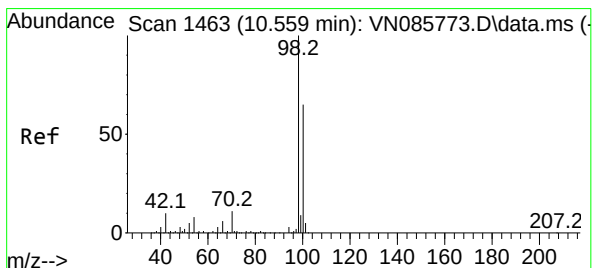
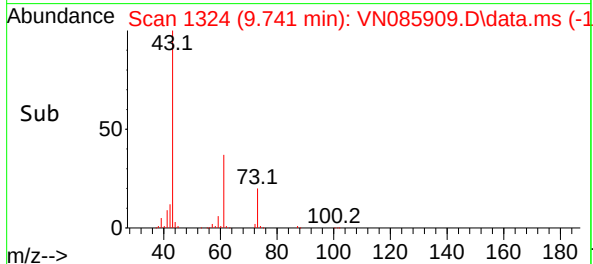
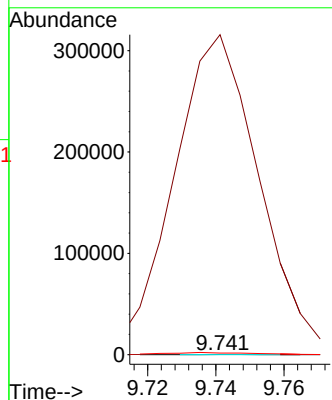
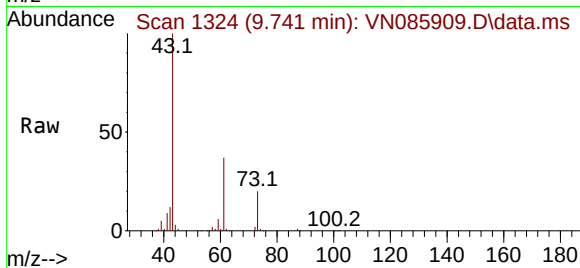
Tgt Ion: 88 Resp: 128

Ion Ratio Lower Upper

88 100

43 436021.1 18.6 27.8#

58 3134.4 56.7 85.1#



#50

Toluene-d8

Concen: 53.344 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085909.D

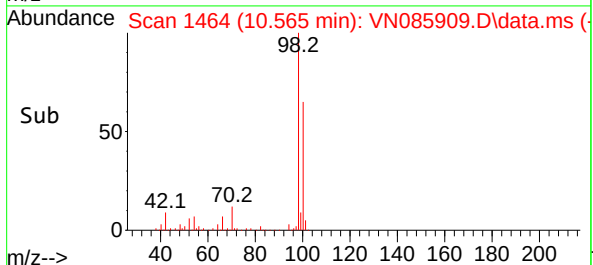
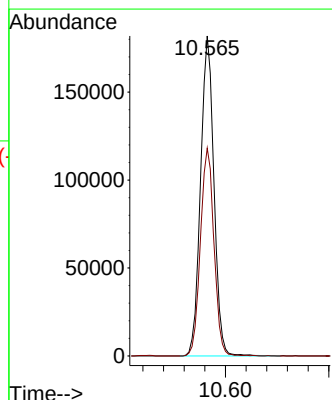
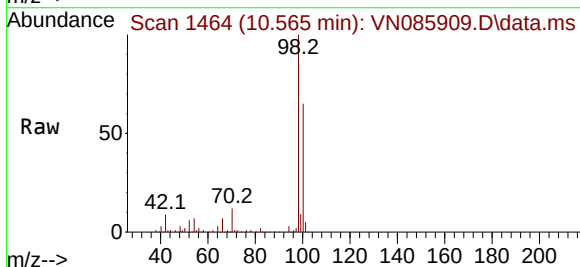
Acq: 06 Mar 2025 19:31

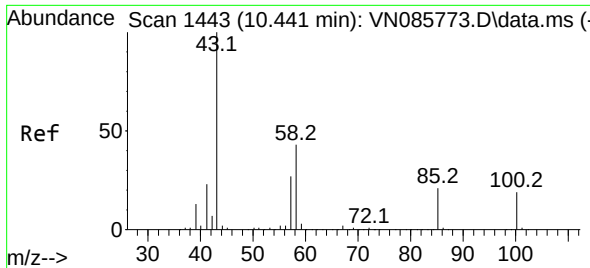
Tgt Ion: 98 Resp: 326694

Ion Ratio Lower Upper

98 100

100 65.8 52.1 78.1

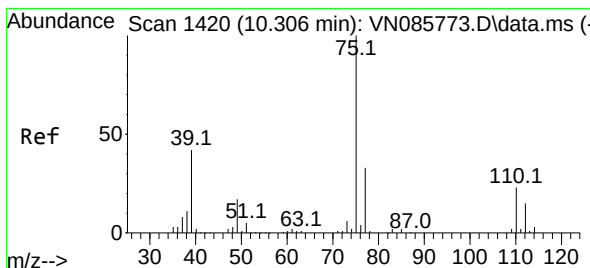
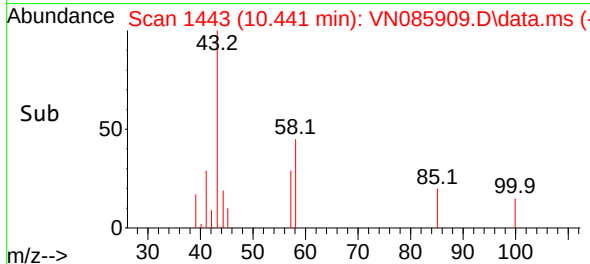
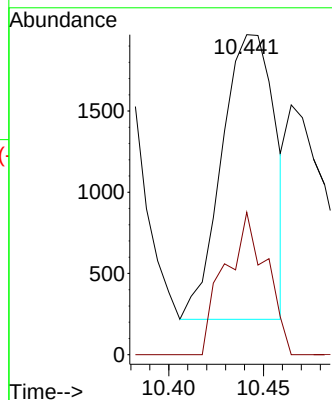
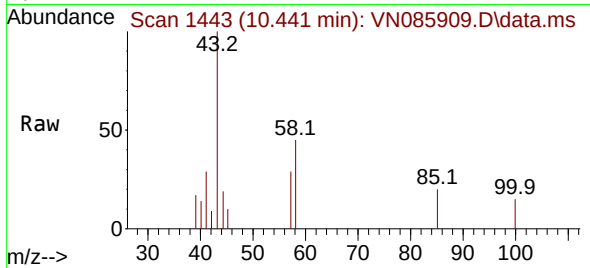




#51
4-Methyl-2-Pentanone
Concen: 1.815 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

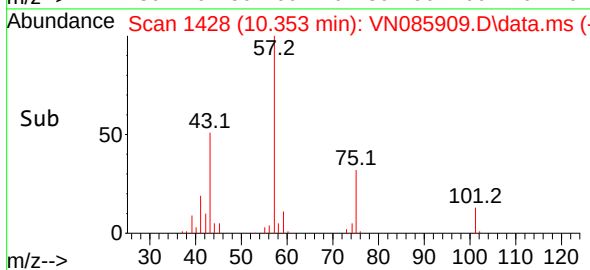
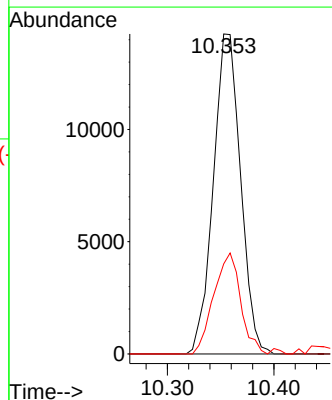
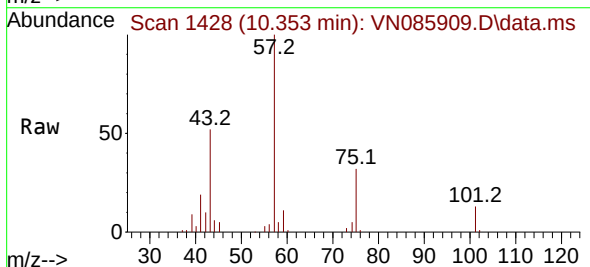
Instrument :
MSVOA_N
ClientSampleId :
PB166989ZHE#11

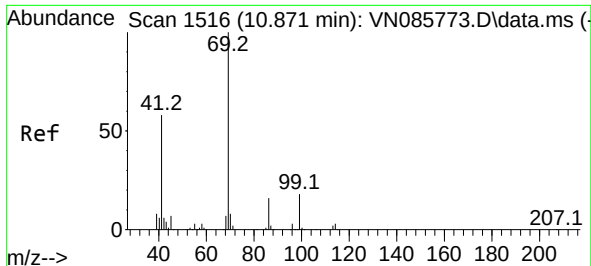
Tgt Ion: 43 Resp: 3431
Ion Ratio Lower Upper
43 100
58 38.9 34.6 52.0



#54
cis-1,3-Dichloropropene
Concen: 8.973 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

Tgt Ion: 75 Resp: 25306
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 28.1 33.4 50.0#

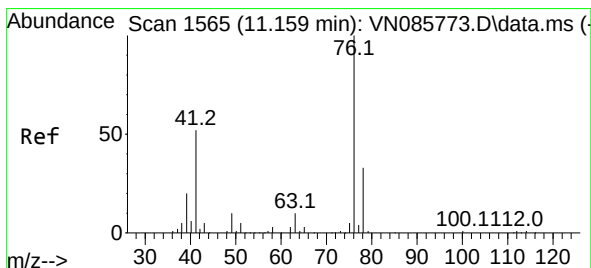
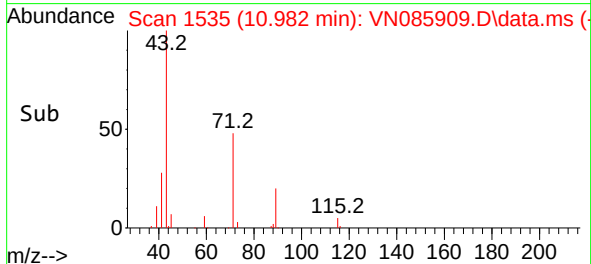
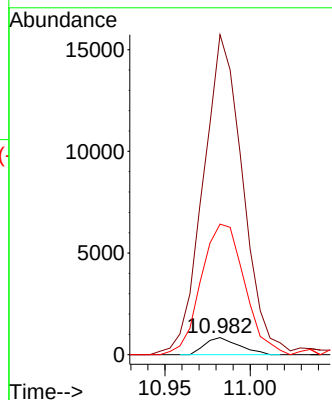
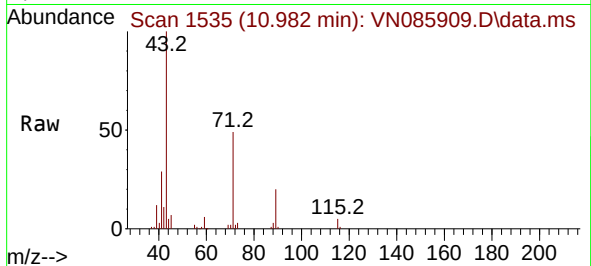




#56
Ethyl methacrylate
Concen: 0.970 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

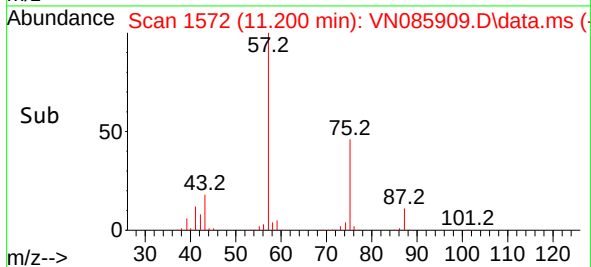
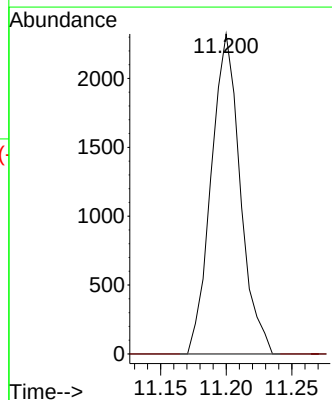
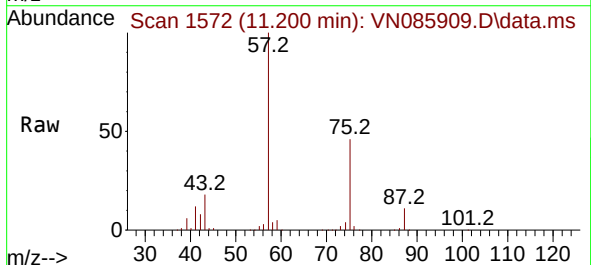
Instrument :
MSVOA_N
ClientSampleId :
PB166989ZHE#11

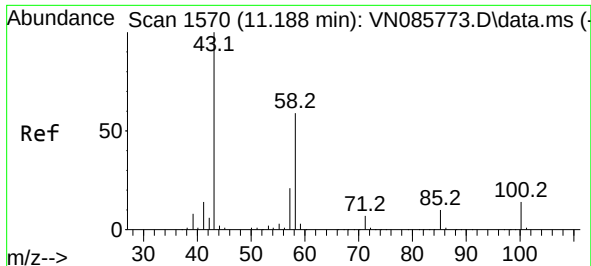
Tgt Ion: 69 Resp: 1171
Ion Ratio Lower Upper
69 100
41 2199.8 46.0 69.0#
39 971.1 22.0 33.0#



#57
1,3-Dichloropropane
Concen: 1.206 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

Tgt Ion: 76 Resp: 3583
Ion Ratio Lower Upper
76 100
78 0.0 25.9 38.9#

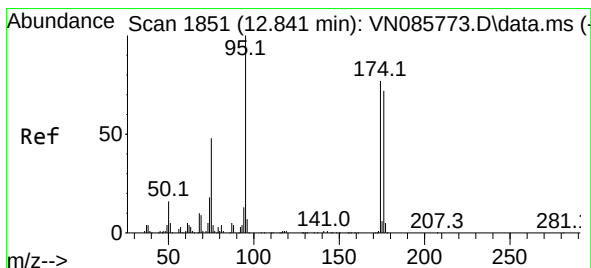
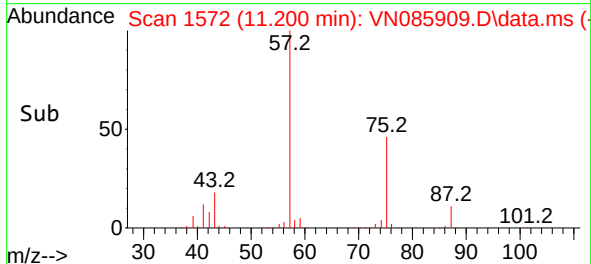
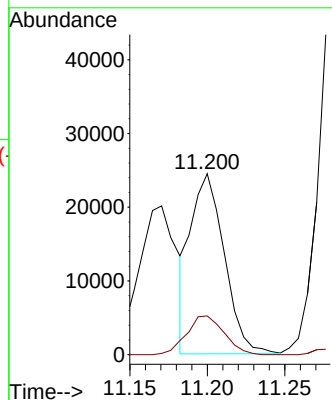
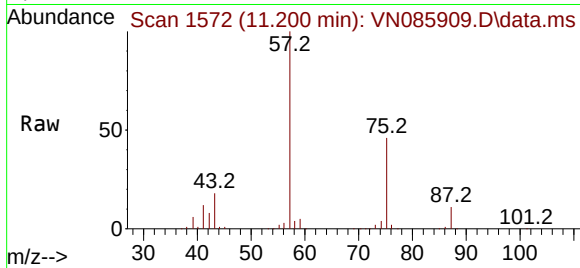




#59
2-Hexanone
Concen: 28.370 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

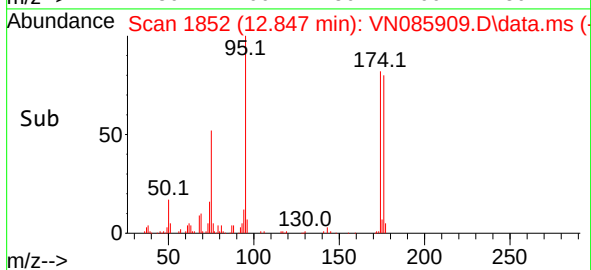
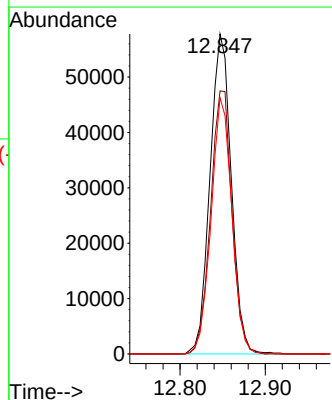
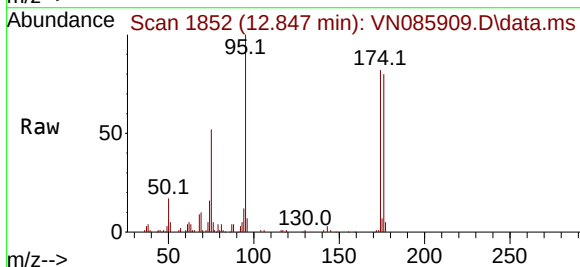
Instrument :
MSVOA_N
ClientSampleId :
PB166989ZHE#11

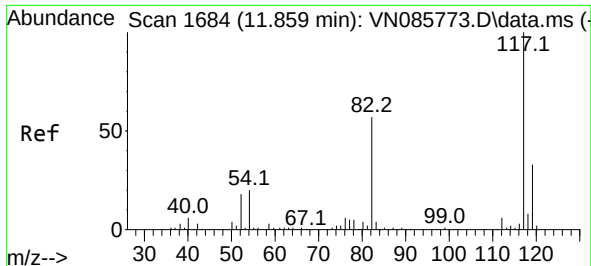
Tgt Ion: 43 Resp: 36891
Ion Ratio Lower Upper
43 100
58 24.0 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 49.637 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

Tgt Ion: 95 Resp: 100159
Ion Ratio Lower Upper
95 100
174 82.8 0.0 152.4
176 78.1 0.0 146.6

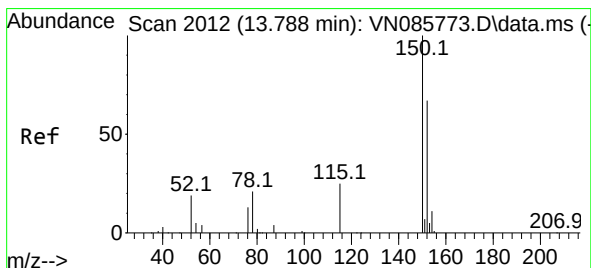
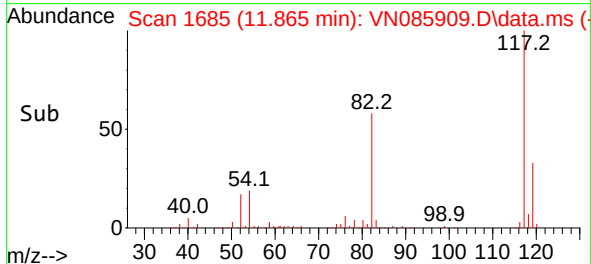
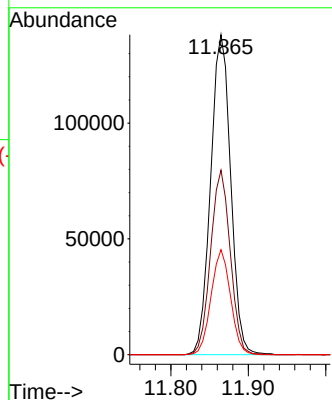
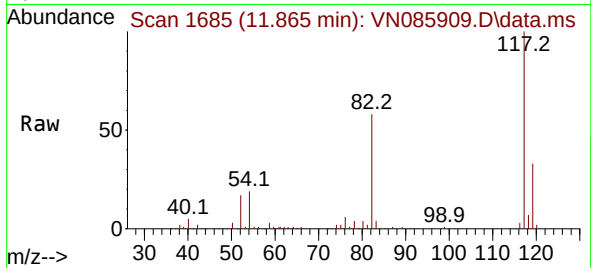




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

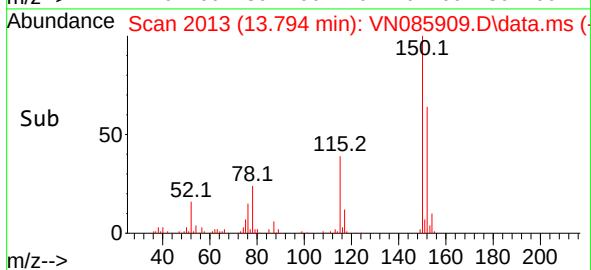
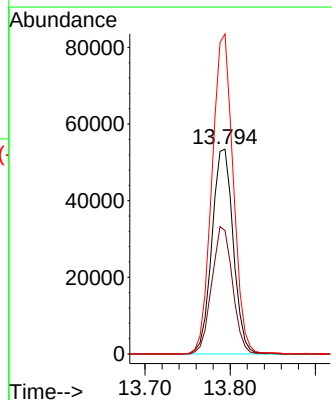
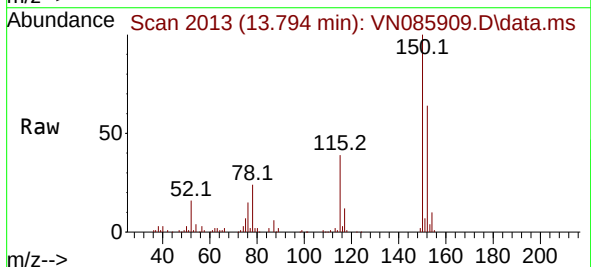
Instrument :
MSVOA_N
ClientSampleId :
PB166989ZHE#11

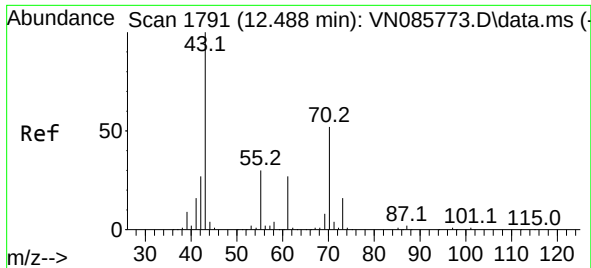
Tgt Ion:117 Resp: 248701
Ion Ratio Lower Upper
117 100
82 57.7 45.7 68.5
119 32.8 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

Tgt Ion:152 Resp: 92859
Ion Ratio Lower Upper
152 100
115 60.7 30.4 91.3
150 155.8 0.0 345.4

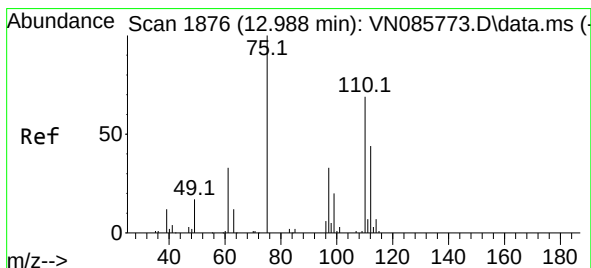
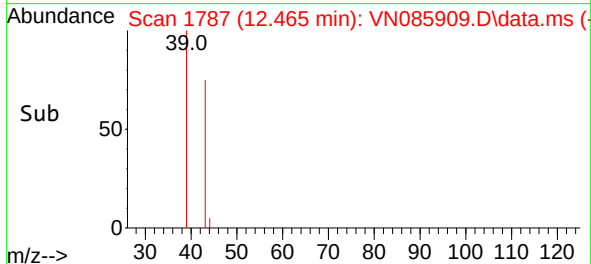
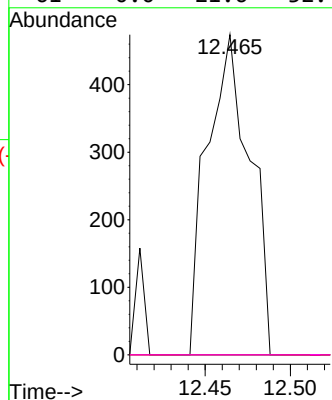
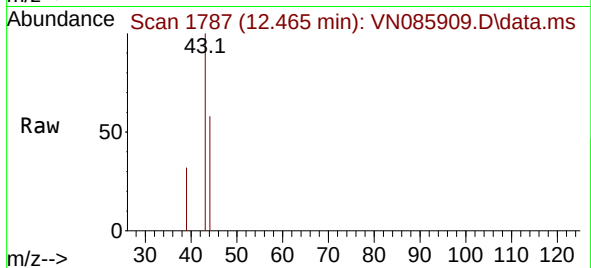




#74
N-amy1 acetate
Concen: 0.369 ug/l
RT: 12.465 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

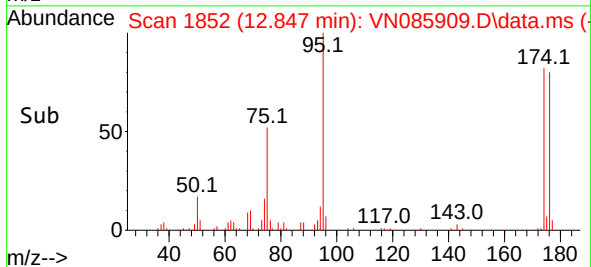
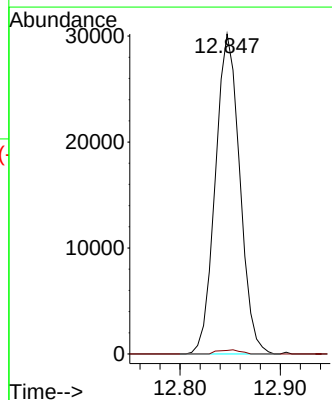
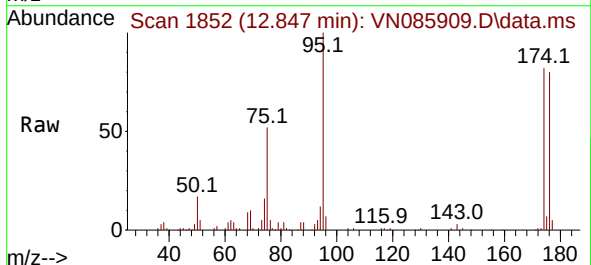
Instrument :
MSVOA_N
ClientSampleId :
PB166989ZHE#11

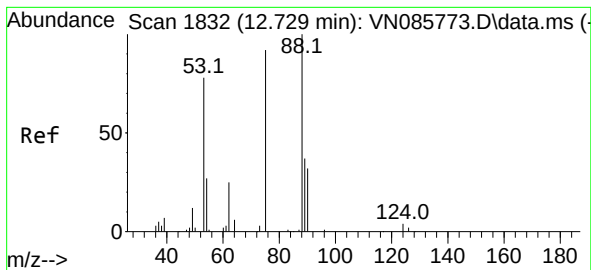
Tgt Ion: 43	Resp: 828
Ion Ratio	Lower Upper
43 100	
70 0.0	41.0 61.4#
55 0.0	24.6 36.8#
61 0.0	21.6 32.4#



#76
1,2,3-Trichloropropane
Concen: 24.735 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085909.D
Acq: 06 Mar 2025 19:31

Tgt Ion: 75	Resp: 51021
Ion Ratio	Lower Upper
75 100	
77 1.2	100.0 300.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.170 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN085909.D
 Acq: 06 Mar 2025 19:31

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166989ZHE#11

Tgt Ion: 75 Resp: 51021
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.2 111.4#
 89 0.0 34.9 52.3#

