

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
 Data File : VN085812.D
 Acq On : 21 Feb 2025 19:02
 Operator : JC\MD
 Sample : PB166809ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166809ZHE#05

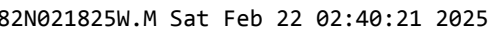
Quant Time: Feb 22 02:40:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	232775	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	453717	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	438070	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	152474	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	185508	61.470	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 122.940%			
35) Dibromofluoromethane	8.165	113	160299	53.993	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.980%			
50) Toluene-d8	10.565	98	598289	55.388	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 110.780%			
62) 4-Bromofluorobenzene	12.847	95	172593	48.496	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.000%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	646	0.203	ug/l	92
5) Bromomethane	2.971	94	608	0.283	ug/l	97
16) Acetone	4.430	43	33263	34.834	ug/l	95
18) Methyl Acetate	5.012	43	3072	0.935	ug/l #	61
20) Methylene Chloride	5.271	84	4937	1.608	ug/l	96
25) 2-Butanone	7.483	43	3159	2.249	ug/l	91
28) Bromochloromethane	7.959	49	930	0.440	ug/l #	9
30) Chloroform	7.965	83	13876	2.579	ug/l	91
31) Cyclohexane	8.218	56	4631	1.074	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	19576	4.659	ug/l #	50
37) Ethyl Acetate	7.565	43	4142	1.198	ug/l #	68
38) Carbon Tetrachloride	8.224	117	25036	5.015	ug/l #	17
42) 1,2-Dichloroethane	8.683	62	1354	0.309	ug/l #	73
43) Isopropyl Acetate	8.683	43	193663	31.713	ug/l #	86
45) 1,2-Dichloropropane	9.741	63	2412	0.742	ug/l #	43
48) Methyl methacrylate	9.735	41	155165	60.422	ug/l #	37
49) 1,4-Dioxane	9.730	88	104	2.130	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	7039	2.111	ug/l	93
53) t-1,3-Dichloropropene	10.718	75	1335	0.294	ug/l #	82
54) cis-1,3-Dichloropropene	10.353	75	65130	13.094	ug/l #	66
56) Ethyl methacrylate	10.982	69	3408	1.301	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	9182	1.752	ug/l #	42
59) 2-Hexanone	11.194	43	114419	49.889	ug/l #	50
74) N-amyl acetate	12.482	43	1771	0.481	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	85251	25.170	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	85251	73.441	ug/l #	13

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

Quant Time: Feb 22 02:40:11 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

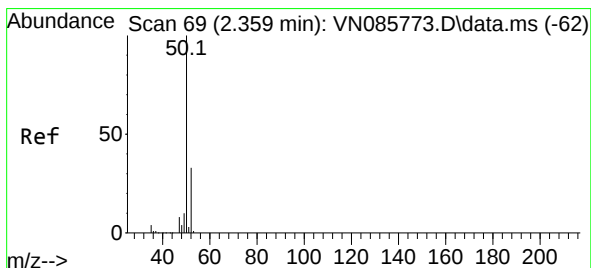
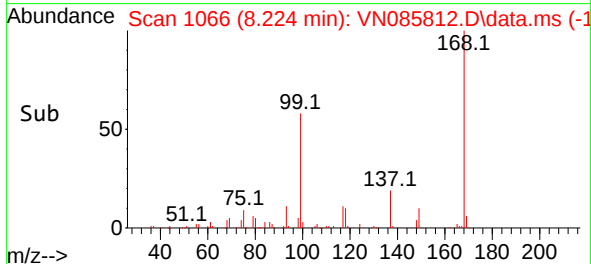
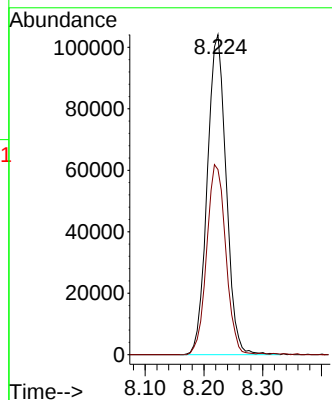
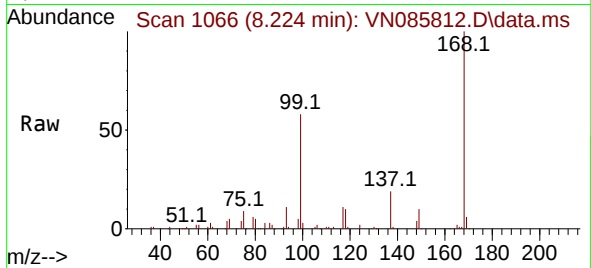




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

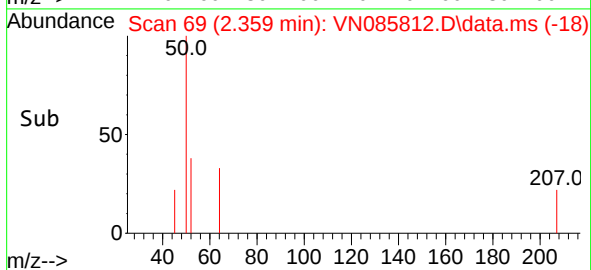
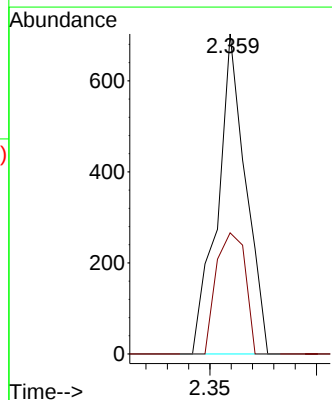
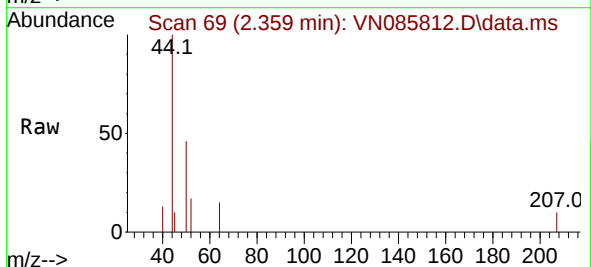
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#05

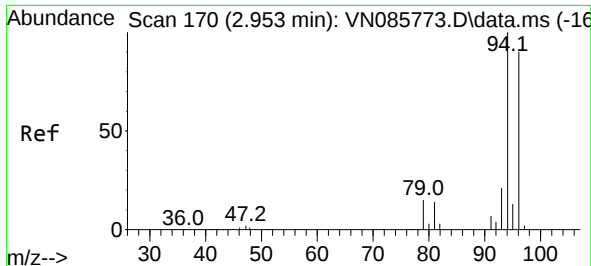
Tgt Ion:168 Resp: 232775
Ion Ratio Lower Upper
168 100
99 57.9 47.9 71.9



#3
Chloromethane
Concen: 0.203 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

Tgt Ion: 50 Resp: 646
Ion Ratio Lower Upper
50 100
52 37.8 26.7 40.1

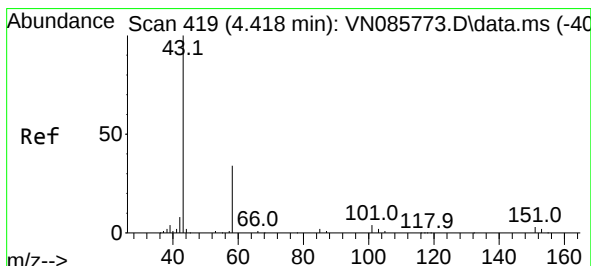
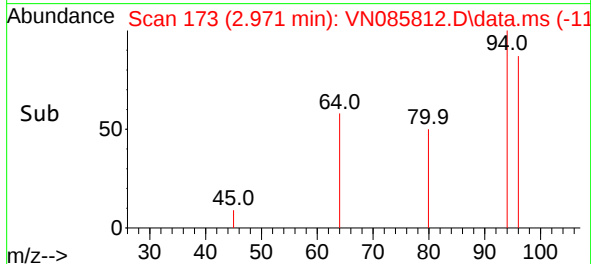
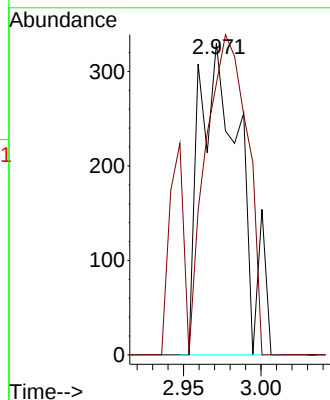
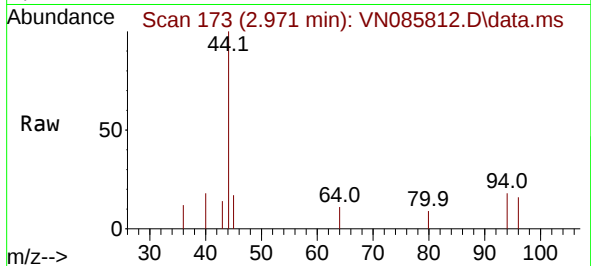




#5
Bromomethane
Concen: 0.283 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

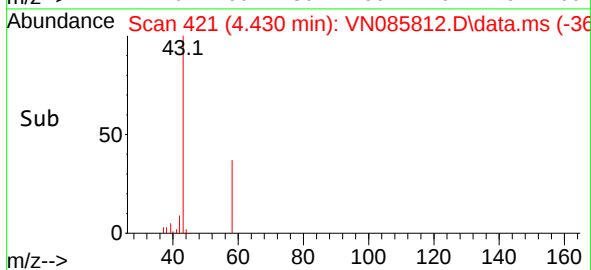
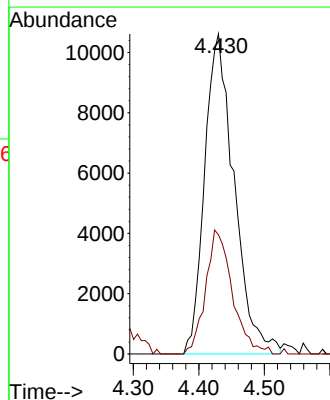
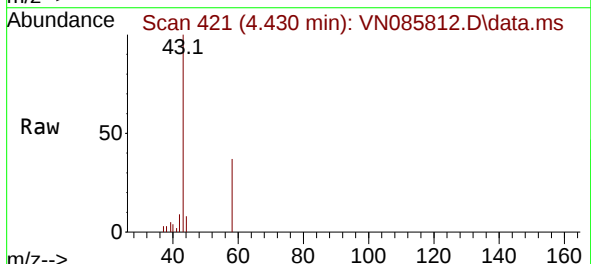
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MSVOA_N
ClientSampleId :
PB166809ZHE#05

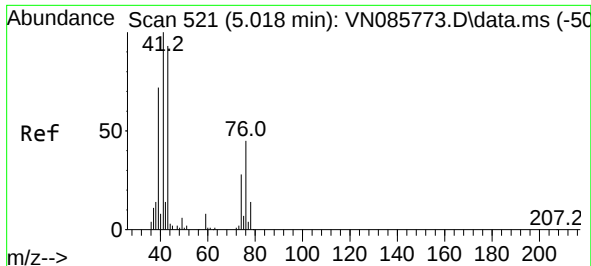
Tgt Ion: 94 Resp: 608
Ion Ratio Lower Upper
94 100
96 87.0 71.7 107.5



#16
Acetone
Concen: 34.834 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

Tgt Ion: 43 Resp: 33263
Ion Ratio Lower Upper
43 100
58 37.2 27.5 41.3

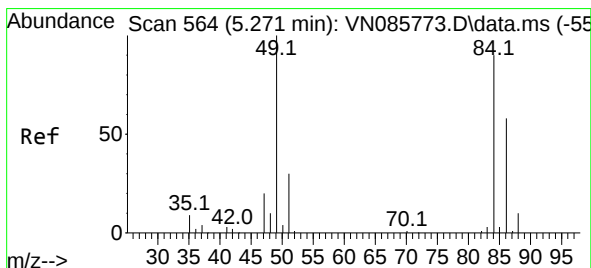
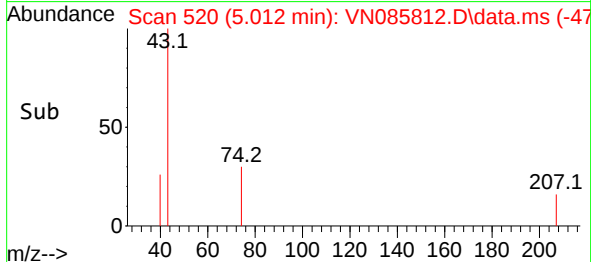
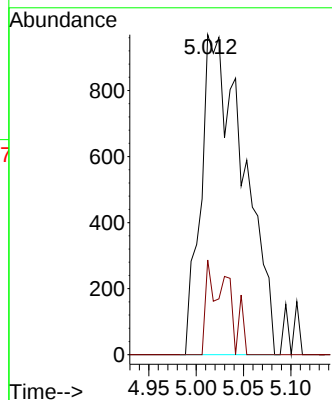
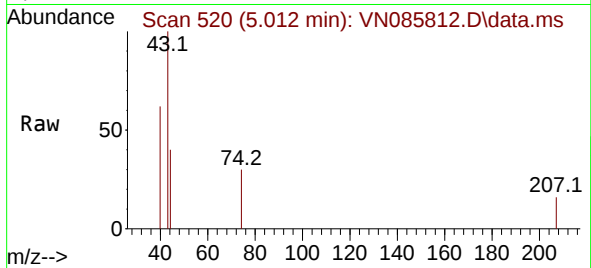




#18
Methyl Acetate
Concen: 0.935 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

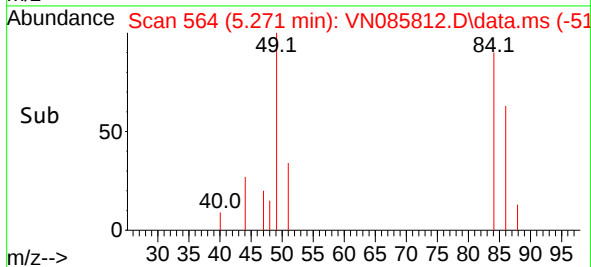
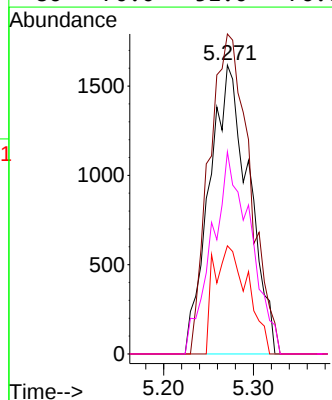
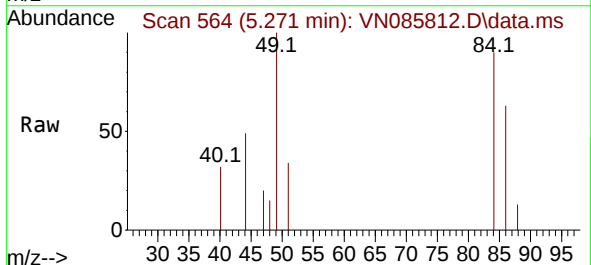
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#05

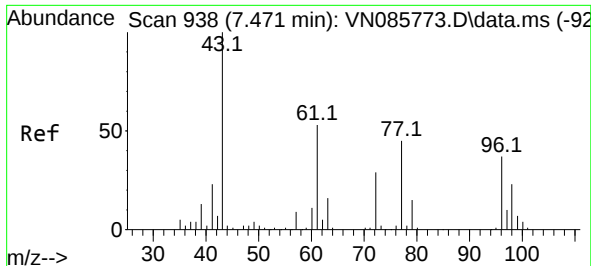
Tgt Ion: 43 Resp: 3072
Ion Ratio Lower Upper
43 100
74 7.1 22.2 33.4#



#20
Methylene Chloride
Concen: 1.608 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

Tgt Ion: 84 Resp: 4937
Ion Ratio Lower Upper
84 100
49 110.8 88.4 132.6
51 37.5 26.6 40.0
86 70.0 51.0 76.6

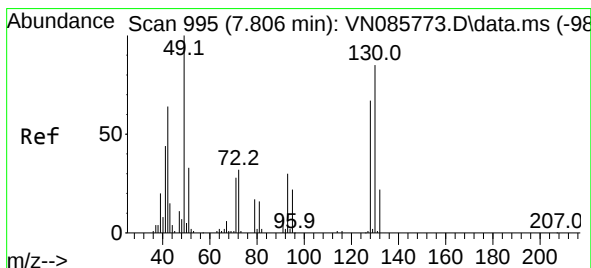
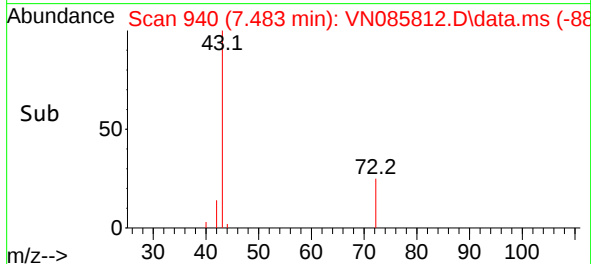
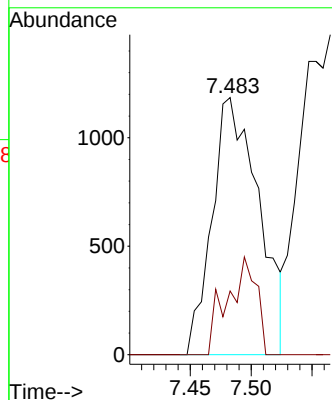
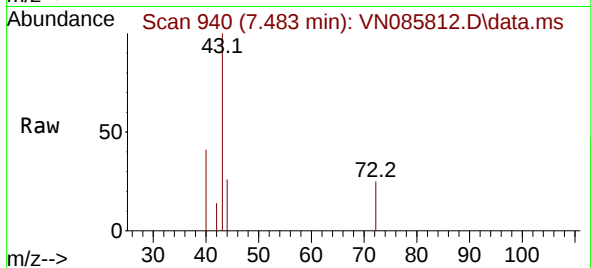




#25
2-Butanone
Concen: 2.249 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

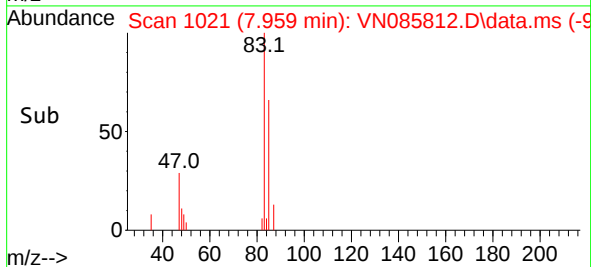
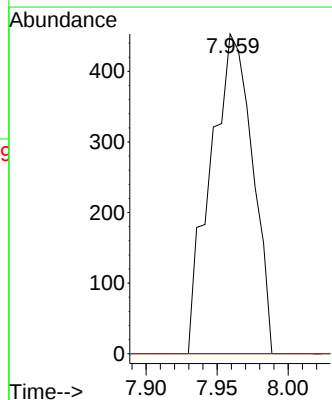
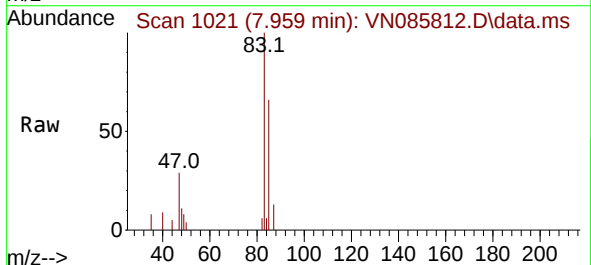
Instrument :
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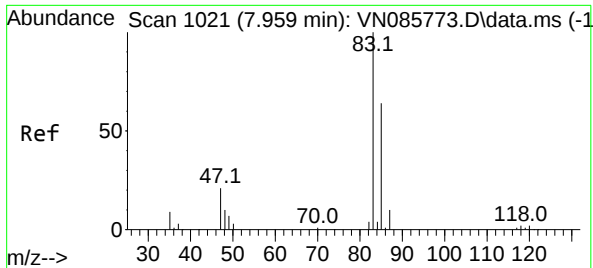
Tgt Ion: 43 Resp: 3159
Ion Ratio Lower Upper
43 100
72 24.8 23.6 35.4



#28
Bromochloromethane
Concen: 0.440 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.153 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

Tgt Ion: 49 Resp: 930
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 68.0 102.0#

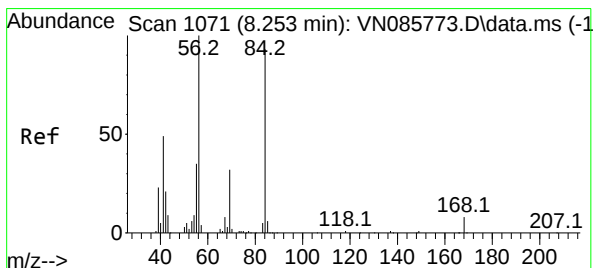
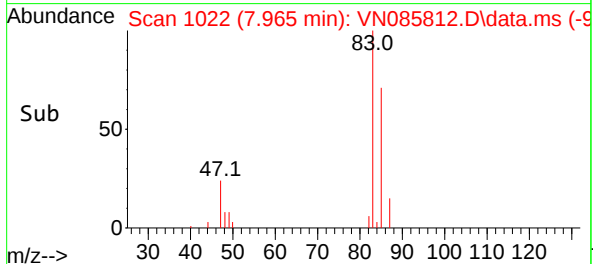
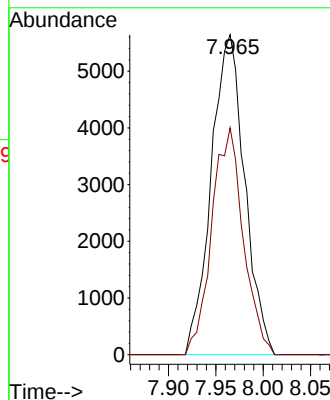
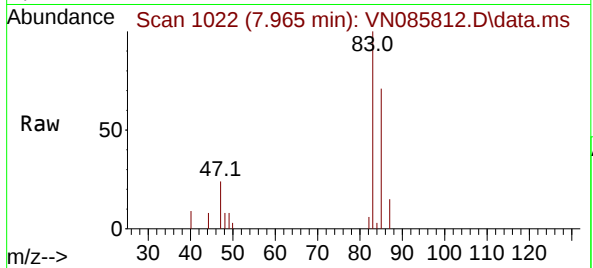




#30
Chloroform
Concen: 2.579 ug/l
RT: 7.965 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

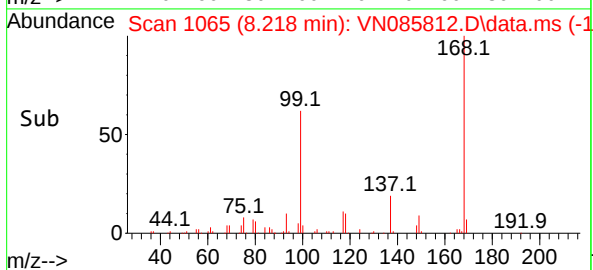
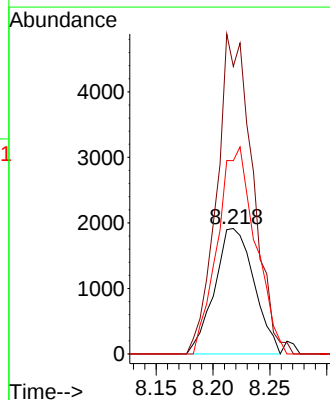
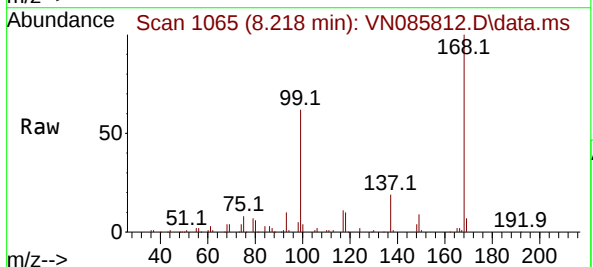
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ClientSampleId :
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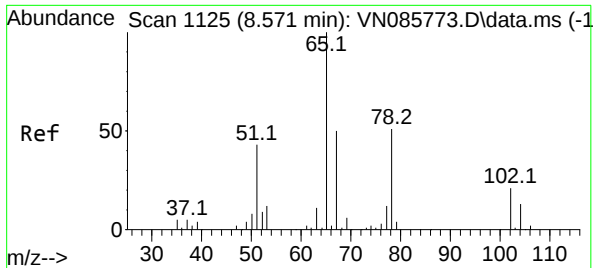
Tgt Ion: 83 Resp: 13876
Ion Ratio Lower Upper
83 100
85 70.9 50.9 76.3



#31
Cyclohexane
Concen: 1.074 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

Tgt Ion: 56 Resp: 4631
Ion Ratio Lower Upper
56 100
69 229.3 25.8 38.6#
84 154.1 74.5 111.7#





#33

1,2-Dichloroethane-d4

Concen: 61.470 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085812.D

Acq: 21 Feb 2025 19:02

Instrument :

MSVOA_N

ClientSampleId :

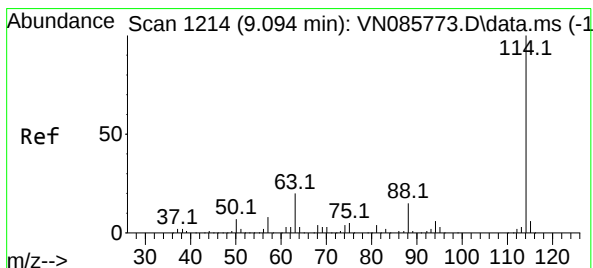
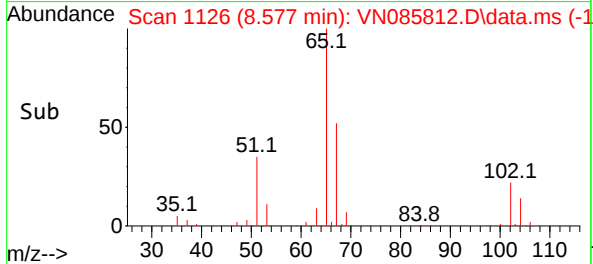
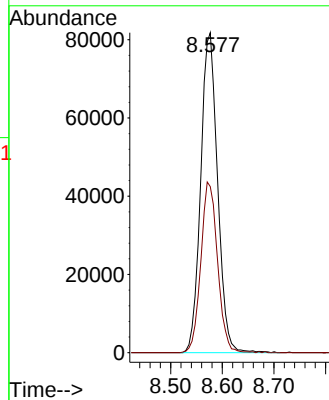
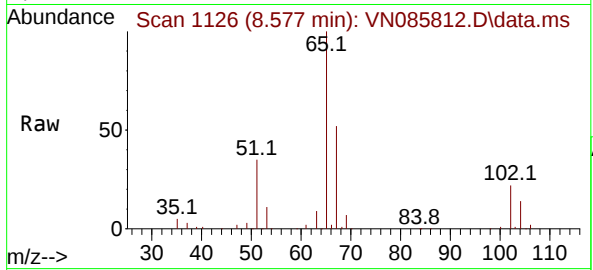
PB166809ZHE#05

Tgt Ion: 65 Resp: 185508

Ion Ratio Lower Upper

65 100

67 52.7 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: VN085812.D

Acq: 21 Feb 2025 19:02

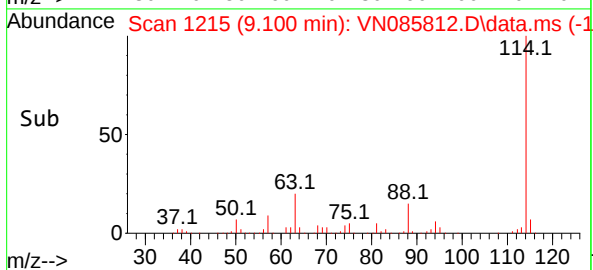
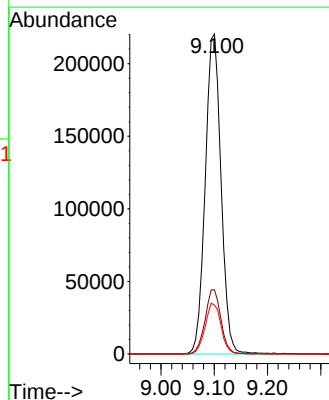
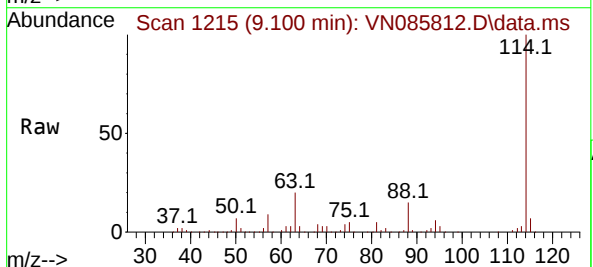
Tgt Ion: 114 Resp: 453717

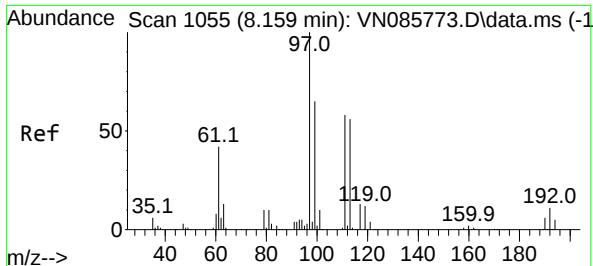
Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.2

88 15.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 53.993 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085812.D

Acq: 21 Feb 2025 19:02

Instrument :

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ClientSampleId :

PB166809ZHE#05

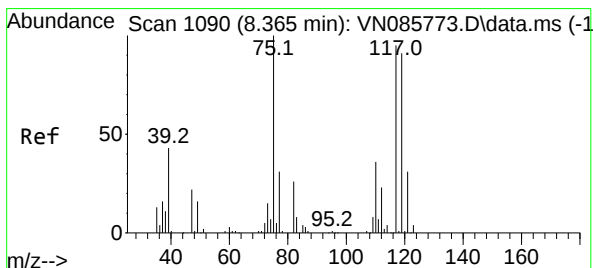
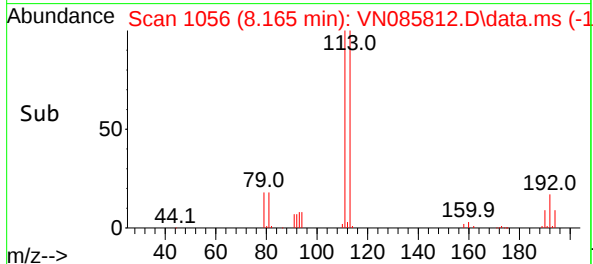
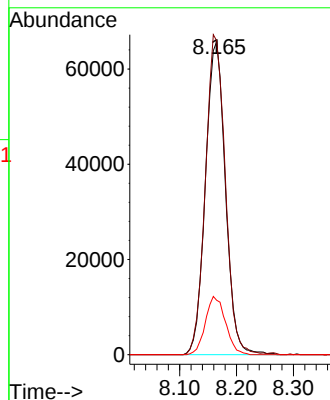
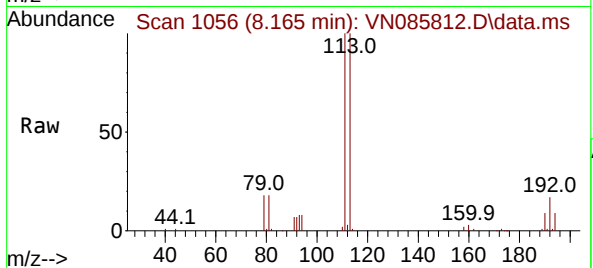
Tgt Ion:113 Resp: 160299

Ion Ratio Lower Upper

113 100

111 101.7 82.2 123.4

192 18.8 14.7 22.1



#36

1,1-Dichloropropene

Concen: 4.659 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085812.D

Acq: 21 Feb 2025 19:02

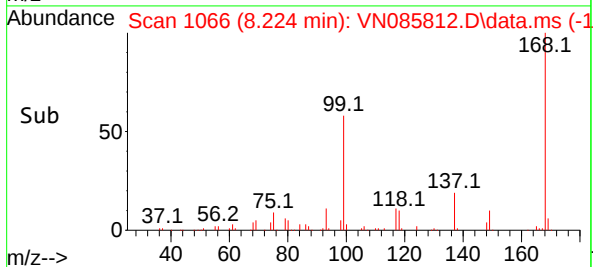
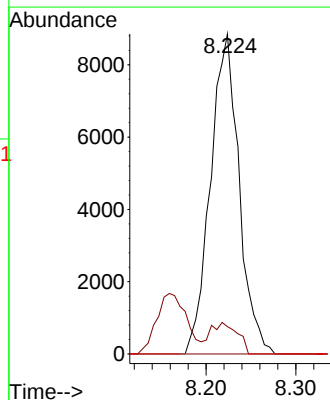
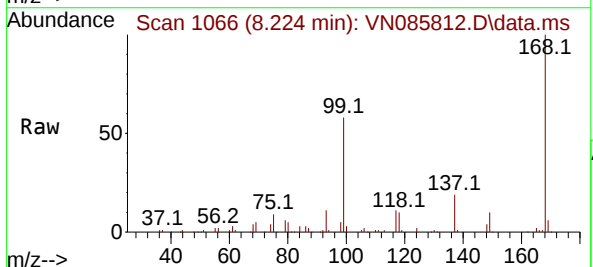
Tgt Ion: 75 Resp: 19576

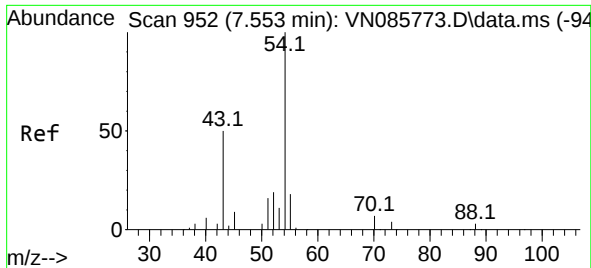
Ion Ratio Lower Upper

75 100

110 9.4 17.3 52.0#

77 0.0 24.6 37.0#

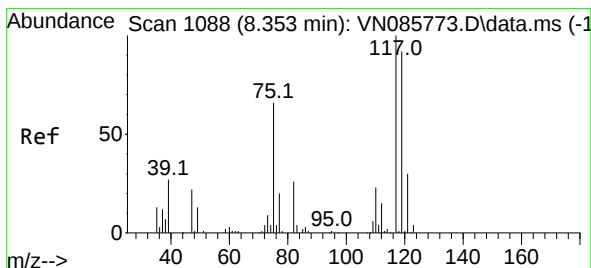
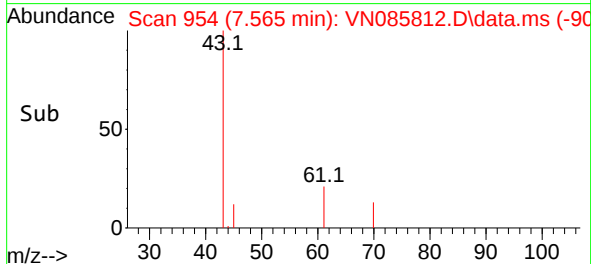
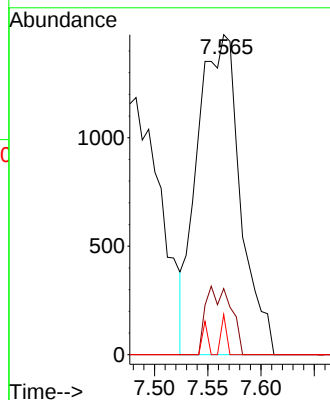
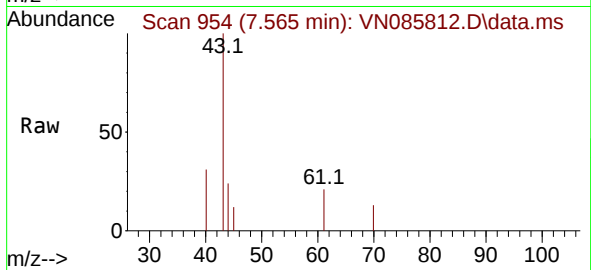




#37
Ethyl Acetate
Concen: 1.198 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

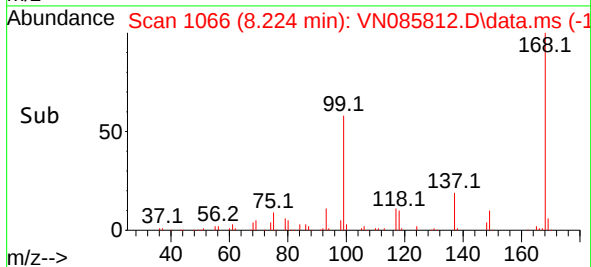
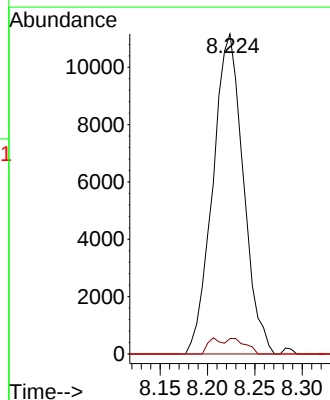
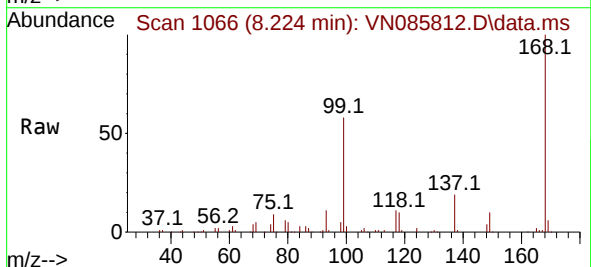
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#05

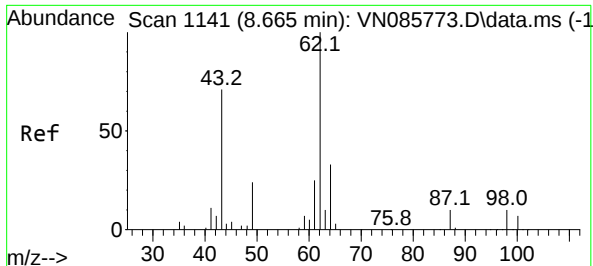
Tgt Ion: 43 Resp: 4142
Ion Ratio Lower Upper
43 100
61 0.0 12.2 18.2#
70 1.6 9.5 14.3#



#38
Carbon Tetrachloride
Concen: 5.015 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.129 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

Tgt Ion: 117 Resp: 25036
Ion Ratio Lower Upper
117 100
119 4.8 73.8 110.6#
121 0.0 24.3 36.5#





#42

1,2-Dichloroethane

Concen: 0.309 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.018 min

Lab File: VN085812.D

Acq: 21 Feb 2025 19:02

Instrument :

MSVOA_N

ClientSampleId :

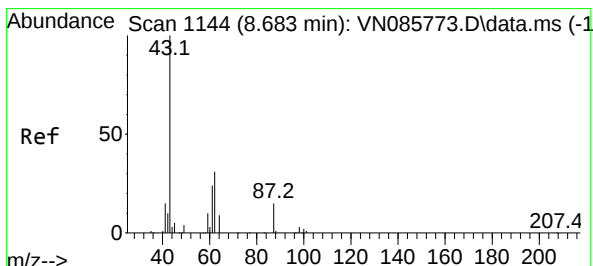
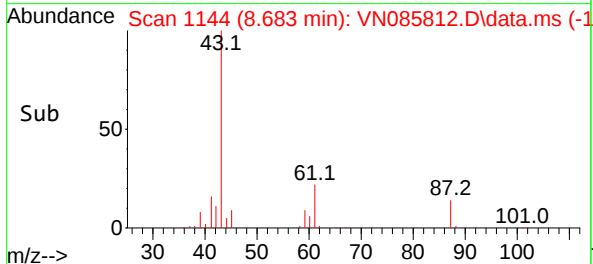
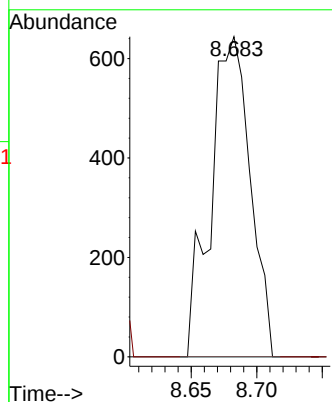
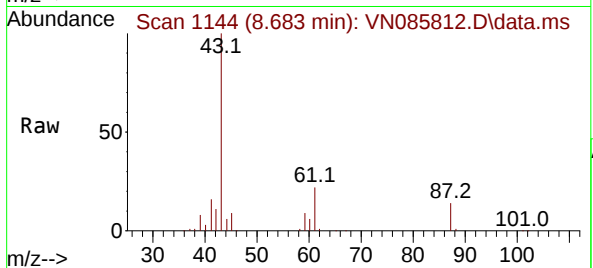
PB166809ZHE#05

Tgt Ion: 62 Resp: 1354

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.6



#43

Isopropyl Acetate

Concen: 31.713 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085812.D

Acq: 21 Feb 2025 19:02

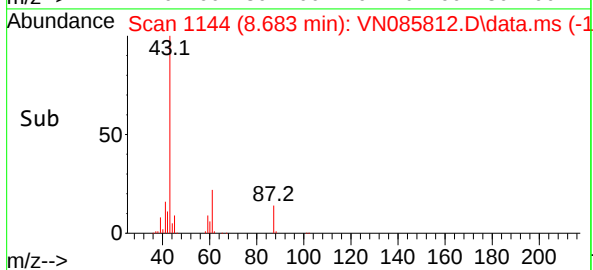
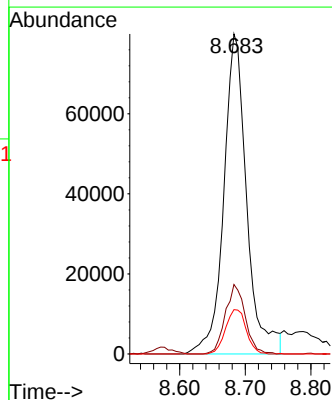
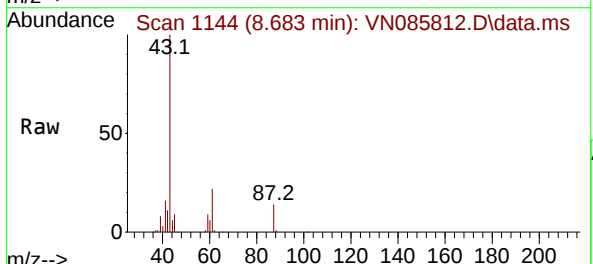
Tgt Ion: 43 Resp: 193663

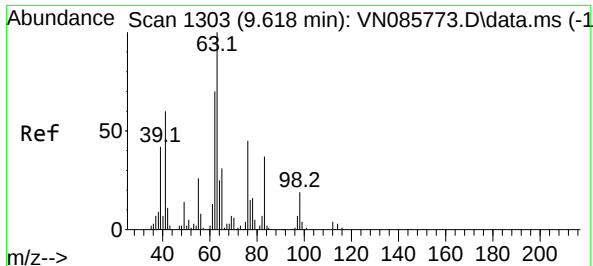
Ion Ratio Lower Upper

43 100

61 18.9 22.6 34.0#

87 12.5 11.8 17.8





#45

1,2-Dichloropropane

Concen: 0.742 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.124 min

Lab File: VN085812.D

Acq: 21 Feb 2025 19:02

Instrument :

MSVOA_N

ClientSampleId :

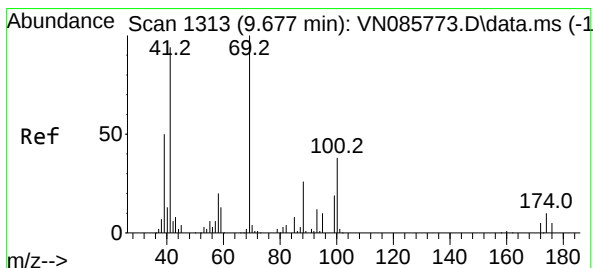
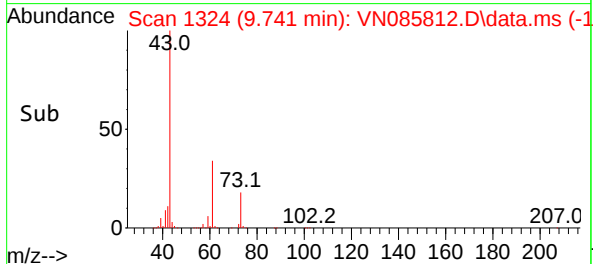
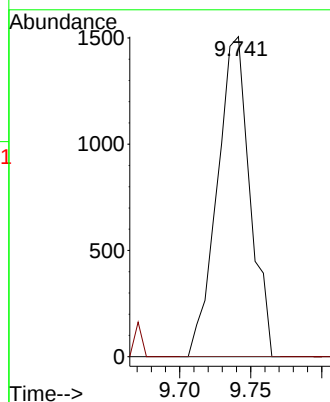
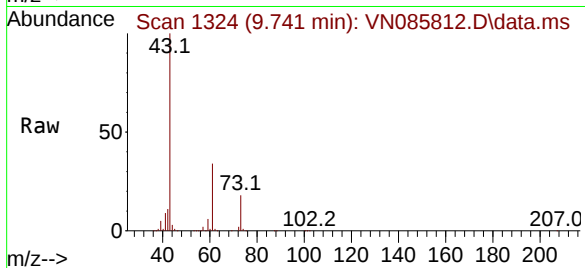
PB166809ZHE#05

Tgt Ion: 63 Resp: 2412

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#



#48

Methyl methacrylate

Concen: 60.422 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN085812.D

Acq: 21 Feb 2025 19:02

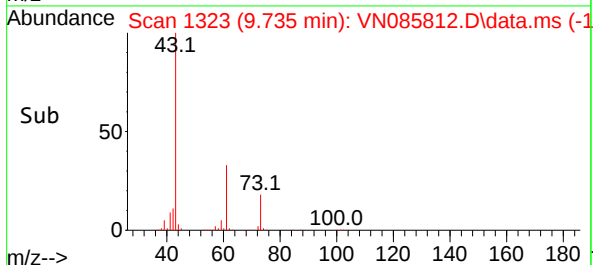
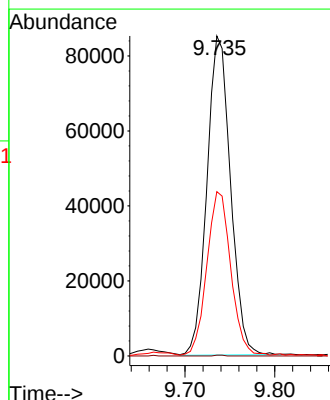
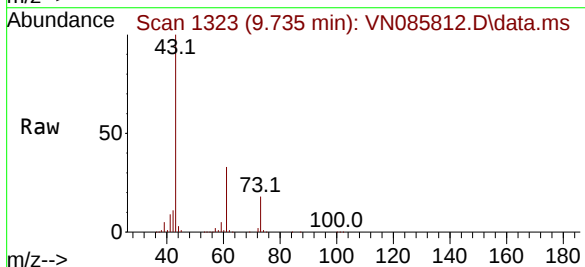
Tgt Ion: 41 Resp: 155165

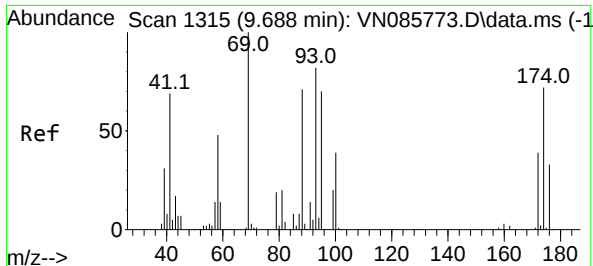
Ion Ratio Lower Upper

41 100

69 0.1 76.0 114.0#

39 52.0 42.3 63.5





#49

1,4-Dioxane

Concen: 2.130 ug/l

RT: 9.730 min Scan# 11

Delta R.T. 0.042 min

Lab File: VN085812.D

Acq: 21 Feb 2025 19:02

Instrument :

MSVOA_N

ClientSampleId :

PB166809ZHE#05

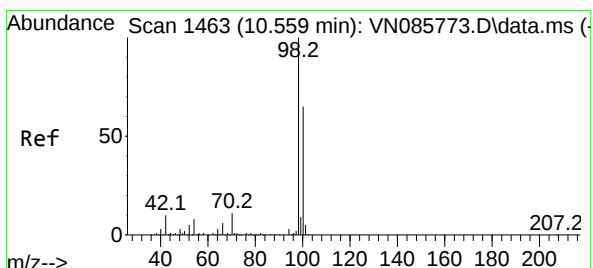
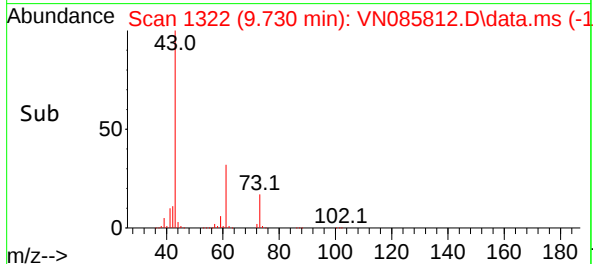
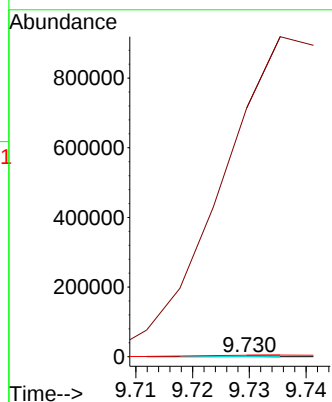
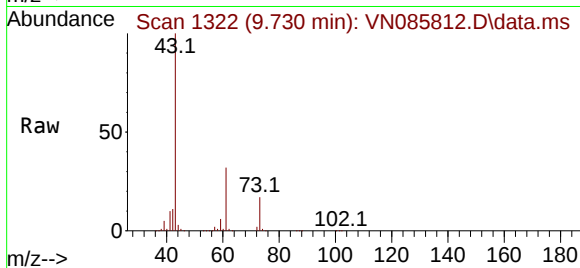
Tgt Ion: 88 Resp: 104

Ion Ratio Lower Upper

88 100

43 1578975.0 18.6 27.8#

58 9323.1 56.7 85.1#



#50

Toluene-d8

Concen: 55.388 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085812.D

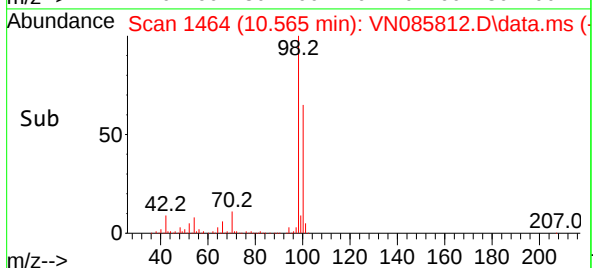
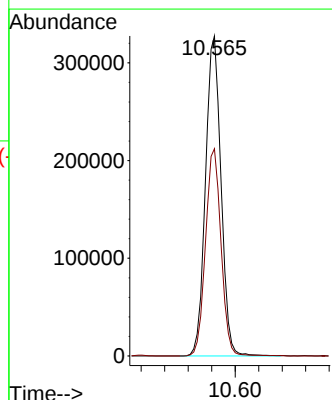
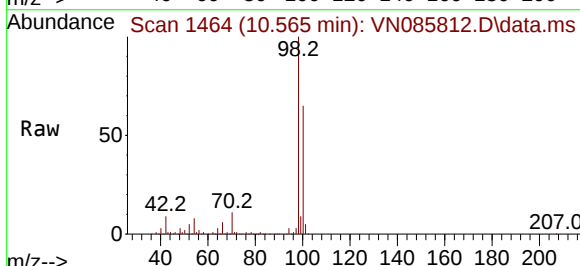
Acq: 21 Feb 2025 19:02

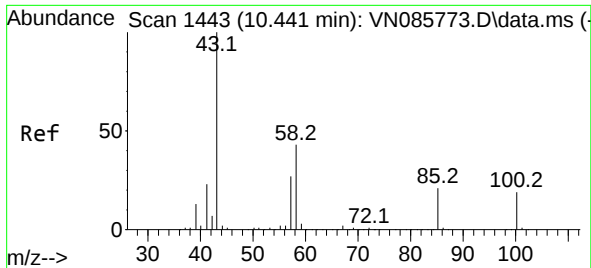
Tgt Ion: 98 Resp: 598289

Ion Ratio Lower Upper

98 100

100 64.7 52.1 78.1

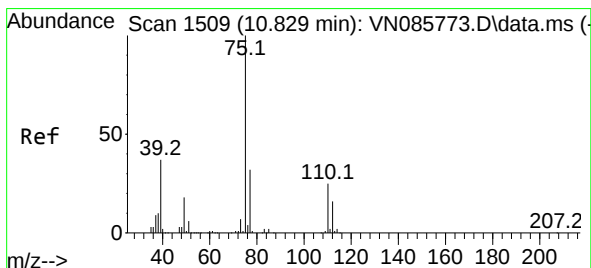
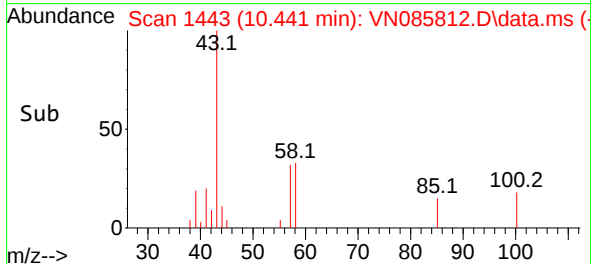
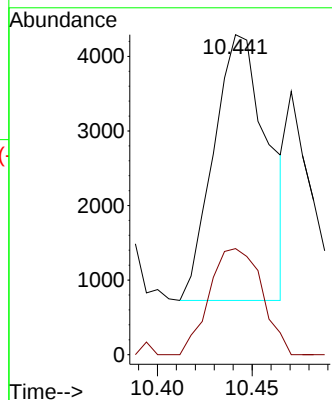
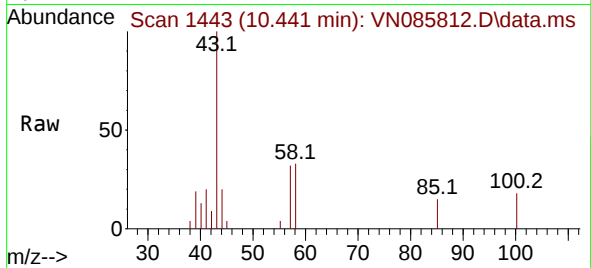




#51
4-Methyl-2-Pentanone
Concen: 2.111 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

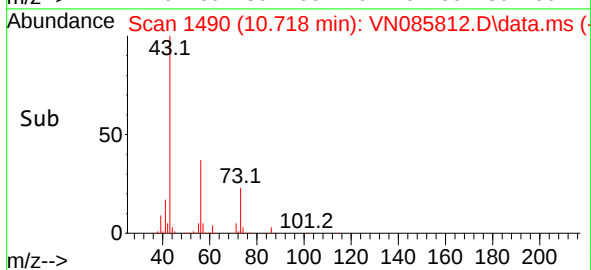
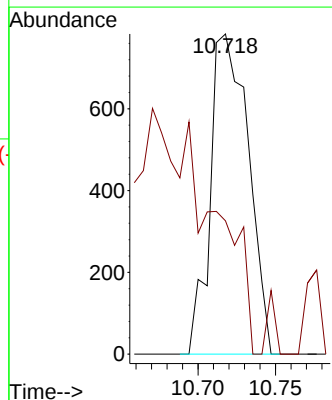
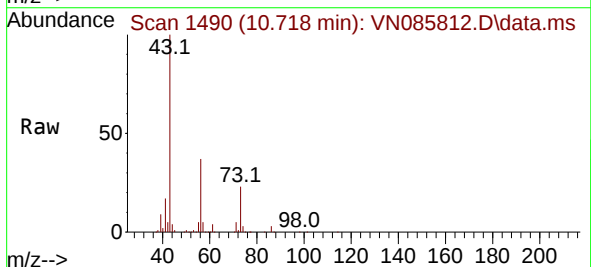
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#05

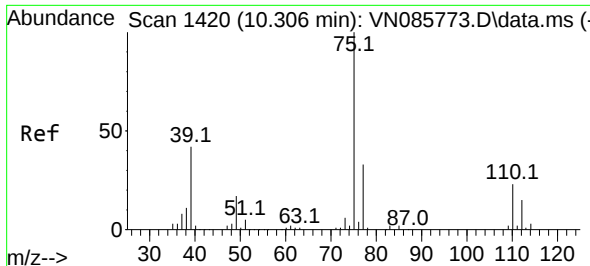
Tgt Ion: 43 Resp: 7039
Ion Ratio Lower Upper
43 100
58 38.9 34.6 52.0



#53
t-1,3-Dichloropropene
Concen: 0.294 ug/l
RT: 10.718 min Scan# 1490
Delta R.T. -0.111 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

Tgt Ion: 75 Resp: 1335
Ion Ratio Lower Upper
75 100
77 41.6 25.4 38.0#

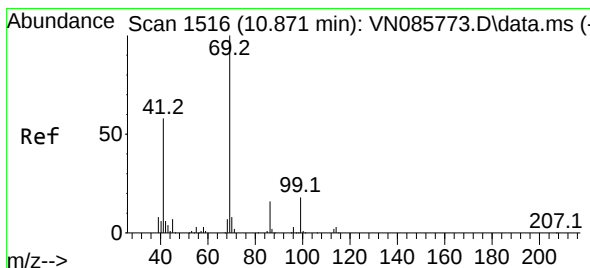
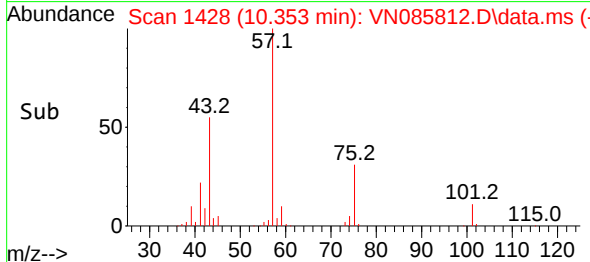
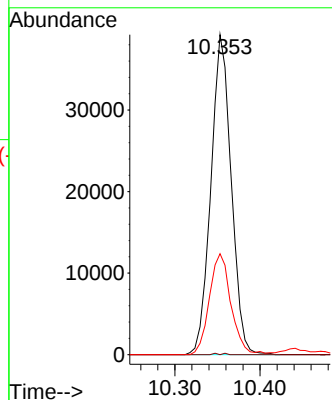
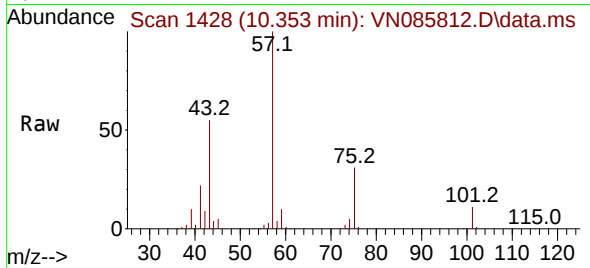




#54
 cis-1,3-Dichloropropene
 Concen: 13.094 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085812.D
 Acq: 21 Feb 2025 19:02

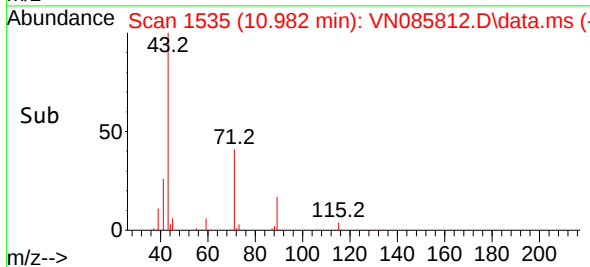
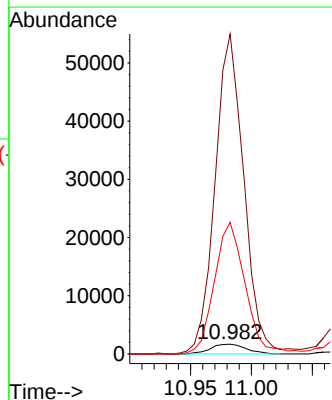
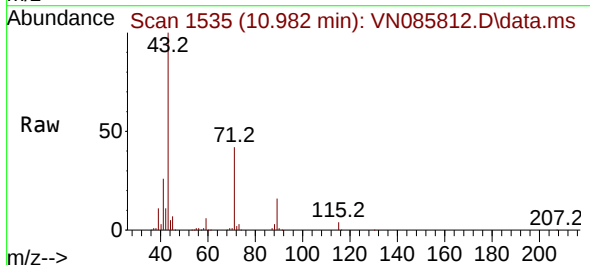
Instrument :
 MSVOA_N
 ClientSampleId :
 PB166809ZHE#05

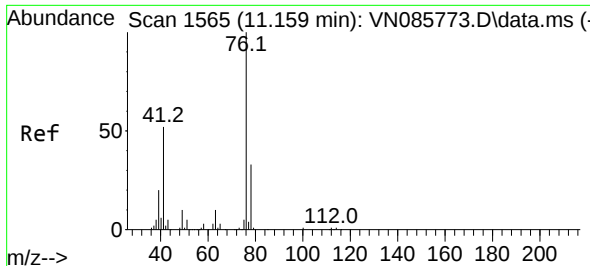
Tgt Ion: 75 Resp: 65130
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 31.6 33.4 50.0#



#56
 Ethyl methacrylate
 Concen: 1.301 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.111 min
 Lab File: VN085812.D
 Acq: 21 Feb 2025 19:02

Tgt Ion: 69 Resp: 3408
 Ion Ratio Lower Upper
 69 100
 41 2659.1 46.0 69.0#
 39 1167.3 22.0 33.0#





#57

1,3-Dichloropropane

Concen: 1.752 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085812.D

Acq: 21 Feb 2025 19:02

Instrument :

MSVOA_N

ClientSampleId :

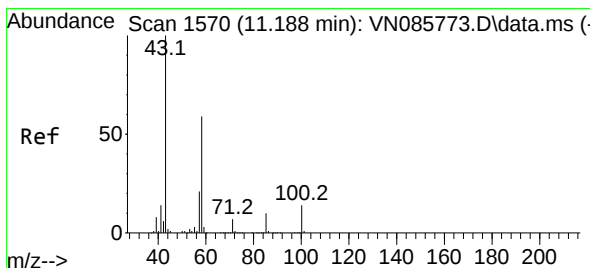
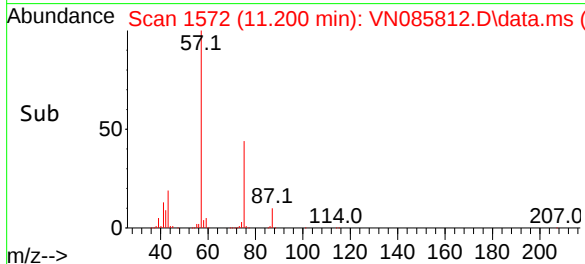
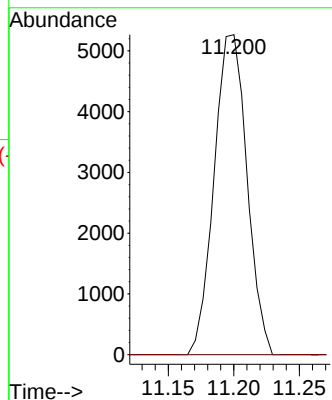
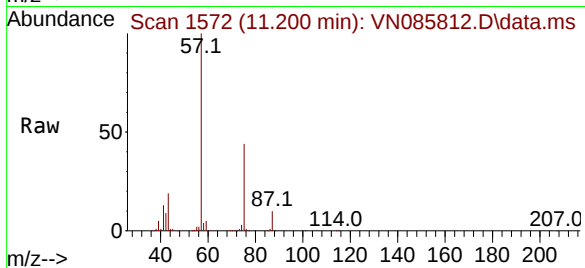
PB166809ZHE#05

Tgt Ion: 76 Resp: 9182

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 49.889 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.006 min

Lab File: VN085812.D

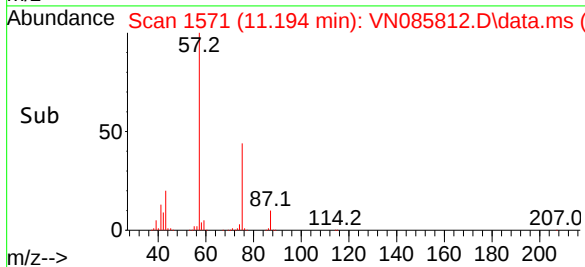
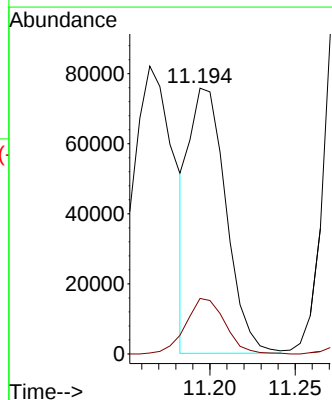
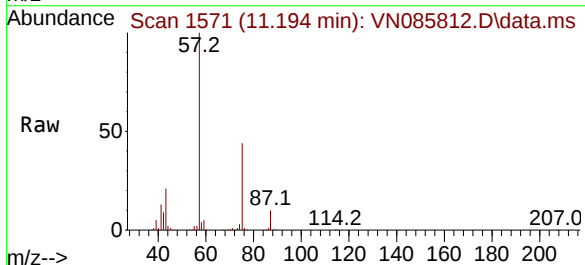
Acq: 21 Feb 2025 19:02

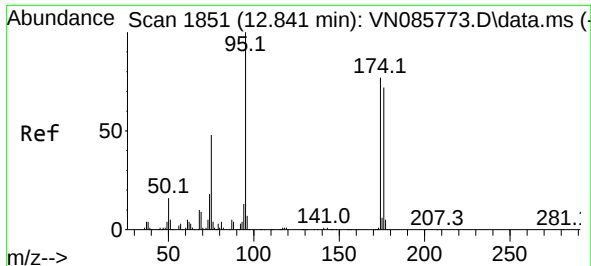
Tgt Ion: 43 Resp: 114419

Ion Ratio Lower Upper

43 100

58 22.3 29.8 89.5#

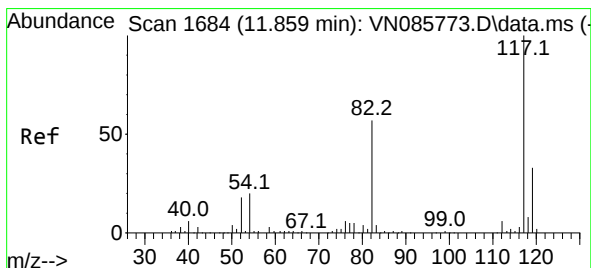
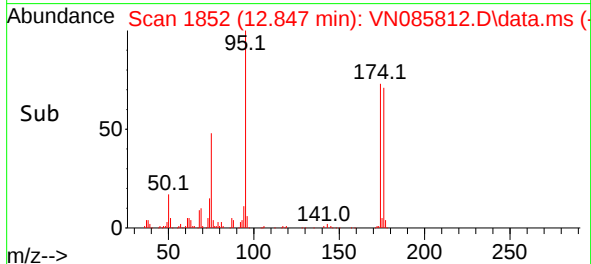
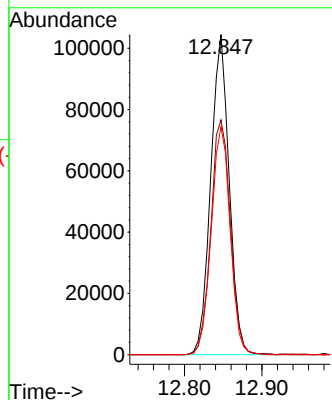
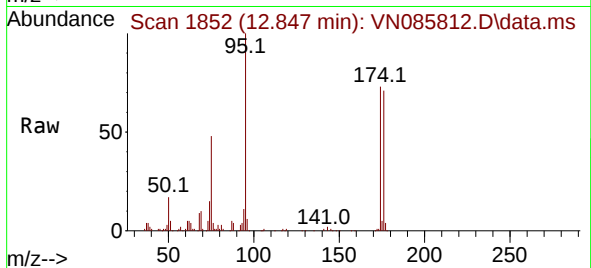




#62
4-Bromofluorobenzene
Concen: 48.496 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

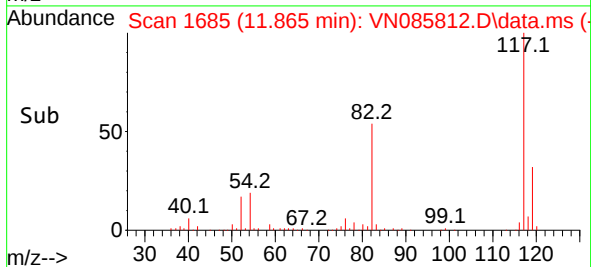
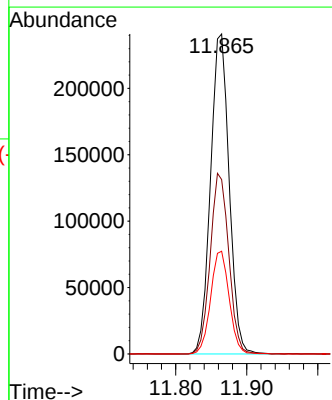
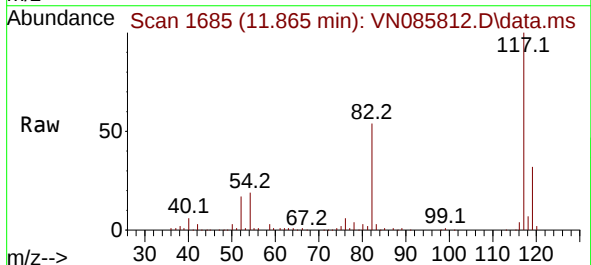
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#05

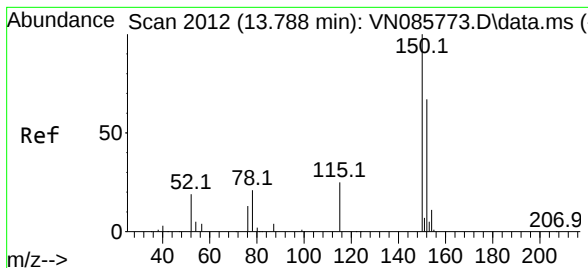
Tgt Ion: 95 Resp: 172593
Ion Ratio Lower Upper
95 100
174 77.9 0.0 152.4
176 73.2 0.0 146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

Tgt Ion: 117 Resp: 438070
Ion Ratio Lower Upper
117 100
82 54.5 45.7 68.5
119 32.1 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN085812.D

Acq: 21 Feb 2025 19:02

Instrument :

MSVOA_N

ClientSampleId :

PB166809ZHE#05

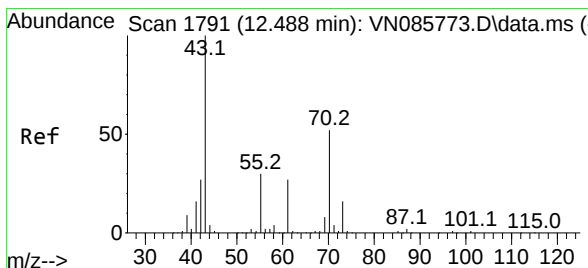
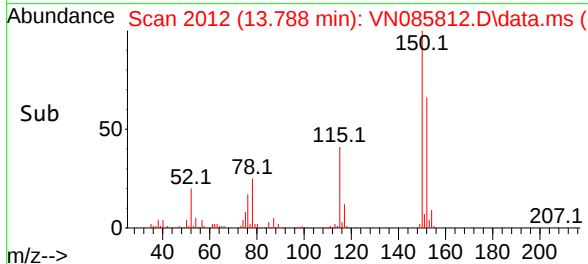
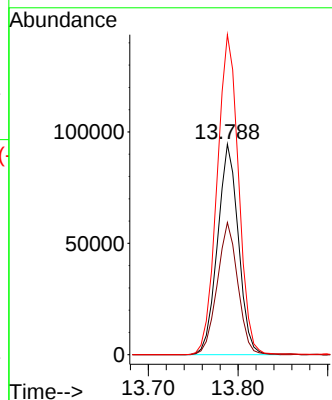
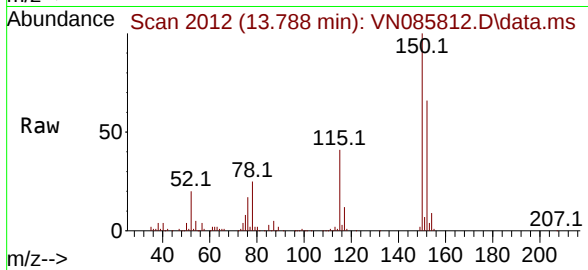
Tgt Ion:152 Resp: 152474

Ion Ratio Lower Upper

152 100

115 62.1 30.4 91.3

150 157.0 0.0 345.4



#74

N-ethyl acetate

Concen: 0.481 ug/l

RT: 12.482 min Scan# 1790

Delta R.T. -0.006 min

Lab File: VN085812.D

Acq: 21 Feb 2025 19:02

Tgt Ion: 43 Resp: 1771

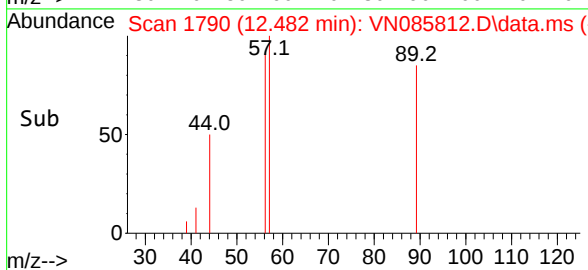
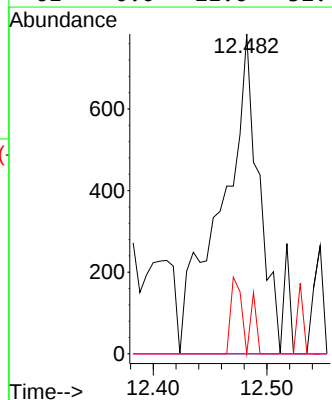
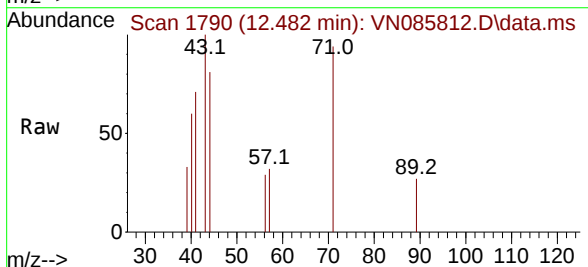
Ion Ratio Lower Upper

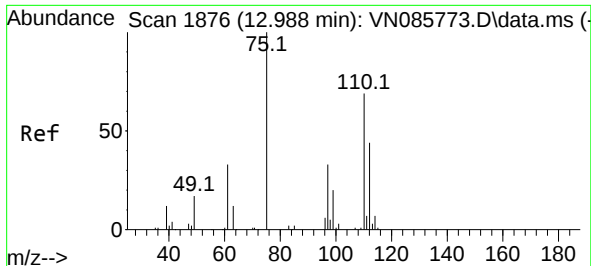
43 100

70 0.0 41.0 61.4#

55 9.8 24.6 36.8#

61 0.0 21.6 32.4#

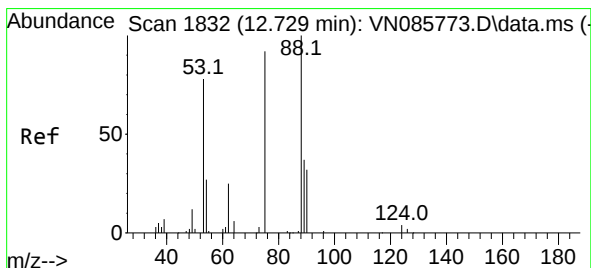
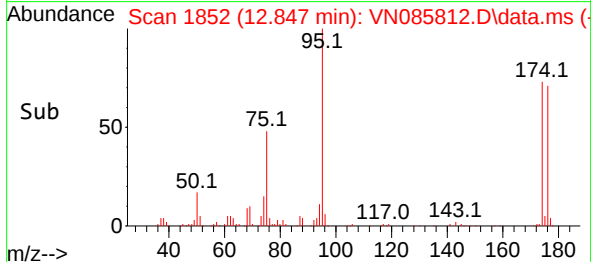
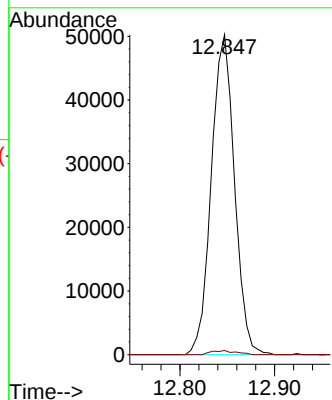
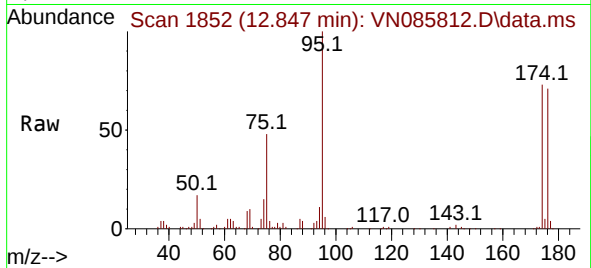




#76
1,2,3-Trichloropropane
Concen: 25.170 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#05

Tgt Ion: 75 Resp: 85251
Ion Ratio Lower Upper
75 100
77 1.4 100.0 300.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.441 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.118 min
Lab File: VN085812.D
Acq: 21 Feb 2025 19:02

Tgt Ion: 75 Resp: 85251
Ion Ratio Lower Upper
75 100
53 0.1 74.2 111.4#
89 0.0 34.9 52.3#

