

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020525\
 Data File : VN085684.D
 Acq On : 05 Feb 2025 17:59
 Operator : JC\MD
 Sample : Q1287-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 06 00:45:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	197178	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	389563	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	350734	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142442	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	153675	48.282	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.560%		
35) Dibromofluoromethane	8.165	113	127860	47.310	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.620%		
50) Toluene-d8	10.565	98	487912	50.812	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.620%		
62) 4-Bromofluorobenzene	12.847	95	149457	45.501	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	91.000%		
Target Compounds						
					Qvalue	
16) Acetone	4.430	43	61480	59.782	ug/l	96
18) Methyl Acetate	5.030	43	3327	1.064	ug/l #	77
20) Methylene Chloride	5.265	84	3208	1.260	ug/l #	71
25) 2-Butanone	7.494	43	4261	2.816	ug/l	98
29) Tetrahydrofuran	7.830	42	195	0.203	ug/l #	34
30) Chloroform	7.977	83	1093	0.228	ug/l #	76
31) Cyclohexane	8.218	56	4387	1.086	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	17285	4.557	ug/l #	50
37) Ethyl Acetate	7.565	43	3692	0.964	ug/l #	87
38) Carbon Tetrachloride	8.218	117	21842	5.030	ug/l #	17
42) 1,2-Dichloroethane	8.682	62	1003	0.234	ug/l #	76
43) Isopropyl Acetate	8.682	43	163091	26.585	ug/l #	87
45) 1,2-Dichloropropane	9.735	63	1609	0.553	ug/l #	43
48) Methyl methacrylate	9.659	41	3834	1.389	ug/l #	48
49) 1,4-Dioxane	9.735	88	147	3.162	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	10597	2.977	ug/l #	76
53) t-1,3-Dichloropropene	10.718	75	890	0.220	ug/l #	89
54) cis-1,3-Dichloropropene	10.353	75	47070	10.896	ug/l #	65
56) Ethyl methacrylate	10.982	69	1759	2.315	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6485	1.427	ug/l #	43
59) 2-Hexanone	11.200	43	69035	27.561	ug/l #	62
74) N-amyl acetate	12.470	43	1452	0.336	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	78372	27.070	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	78372	73.240	ug/l #	3
86) p-Isopropyltoluene	13.723	119	11780	1.629	ug/l	99
95) Naphthalene	15.635	128	44271	6.918	ug/l	99

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

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MSVOA_N
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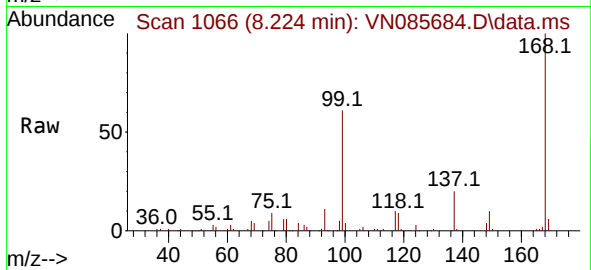
Instrument :
MSVOA_N
ClientSampleId :



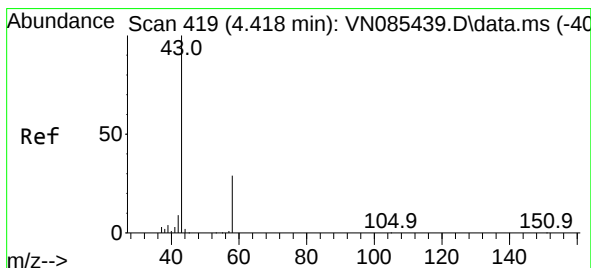
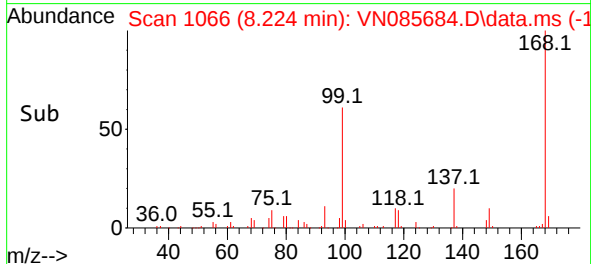
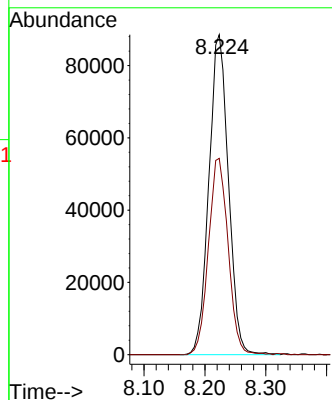


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

Instrument :
MSVOA_N
ClientSampleId :

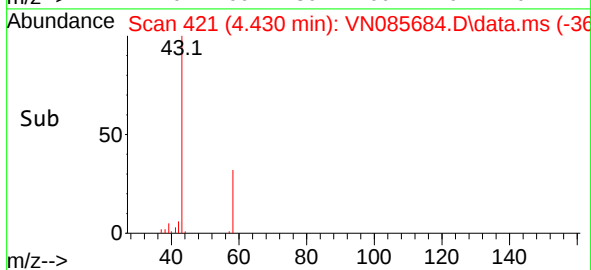
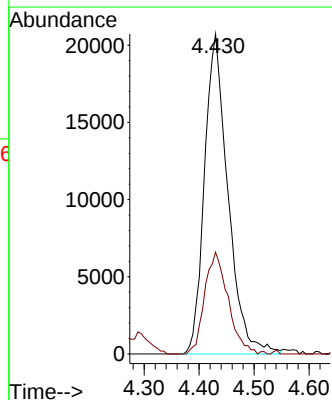
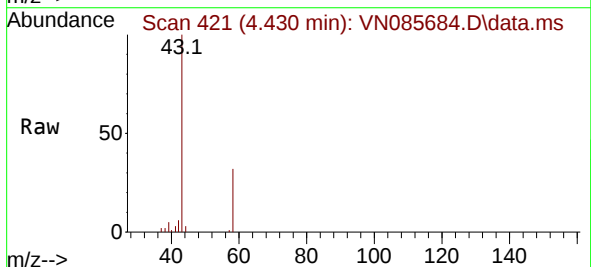


Tgt Ion:168 Resp: 197178
Ion Ratio Lower Upper
168 100
99 61.3 53.6 80.4



#16
Acetone
Concen: 59.782 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

Tgt Ion: 43 Resp: 61480
Ion Ratio Lower Upper
43 100
58 31.8 23.8 35.6

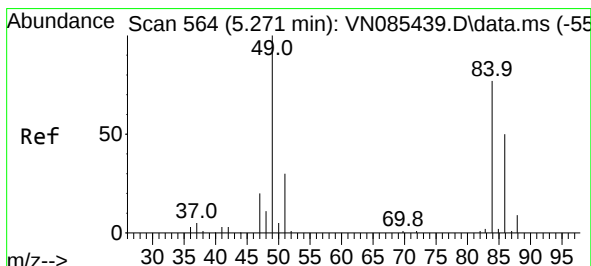
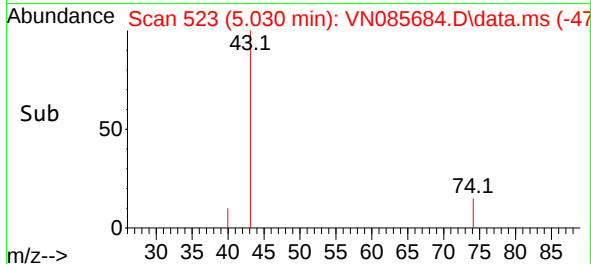
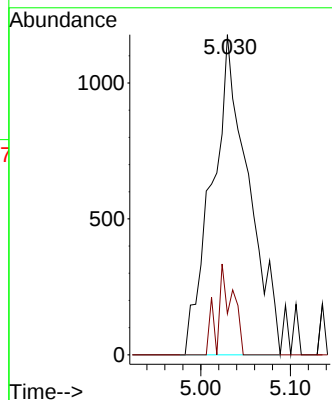
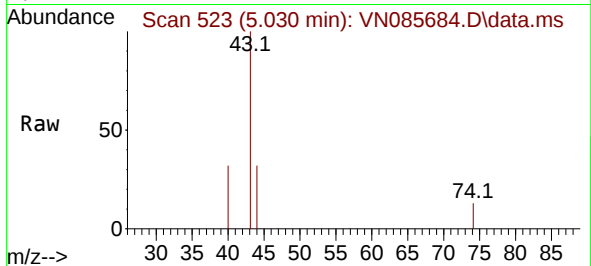




#18
Methyl Acetate
Concen: 1.064 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

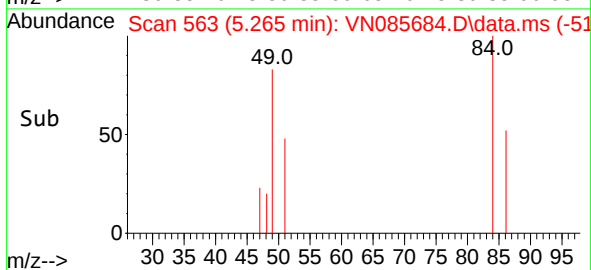
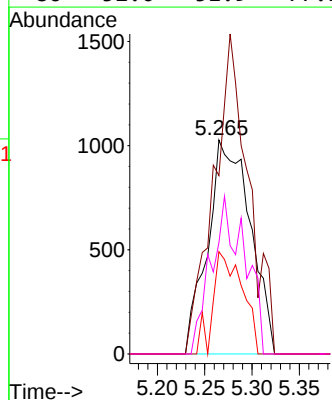
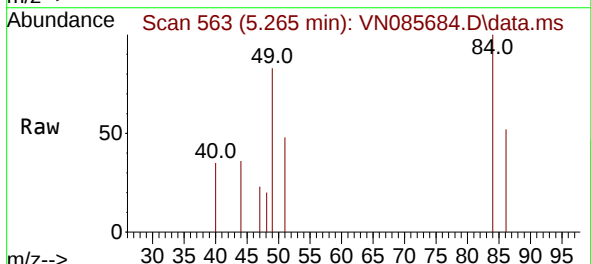
Instrument :
MSVOA_N
ClientSampleId :

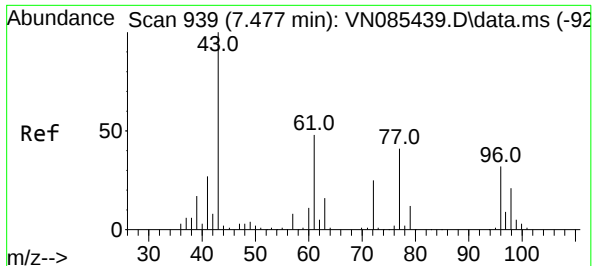
Tgt Ion: 43 Resp: 3327
Ion Ratio Lower Upper
43 100
74 11.8 18.6 28.0#



#20
Methylene Chloride
Concen: 1.260 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

Tgt Ion: 84 Resp: 3208
Ion Ratio Lower Upper
84 100
49 83.3 104.1 156.1#
51 47.8 31.0 46.4#
86 52.0 51.9 77.9





#25

2-Butanone

Concen: 2.816 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.018 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

Instrument :

MSVOA_N

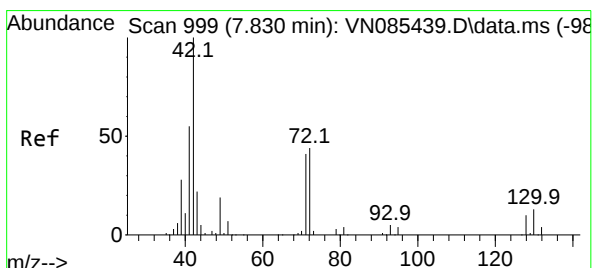
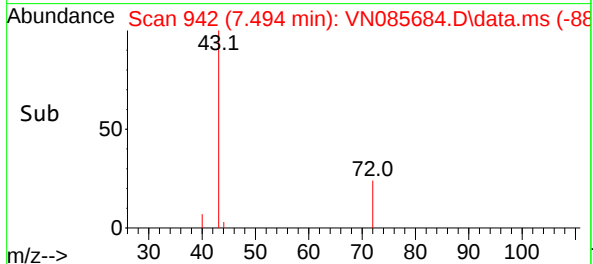
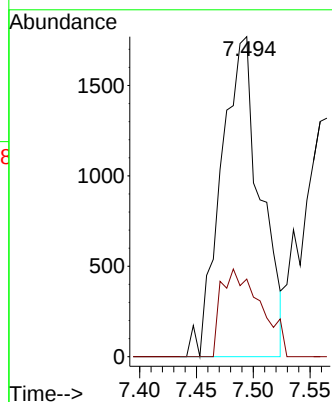
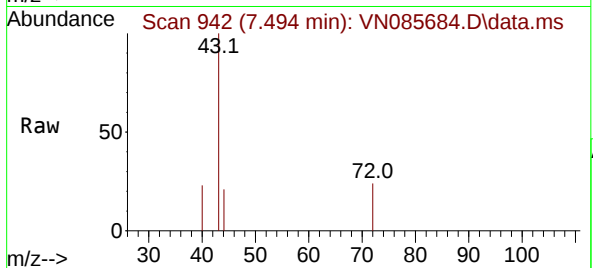
ClientSampleId :

Tgt Ion: 43 Resp: 4261

Ion Ratio Lower Upper

43 100

72 24.2 20.2 30.4



#29

Tetrahydrofuran

Concen: 0.203 ug/l

RT: 7.830 min Scan# 999

Delta R.T. -0.000 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

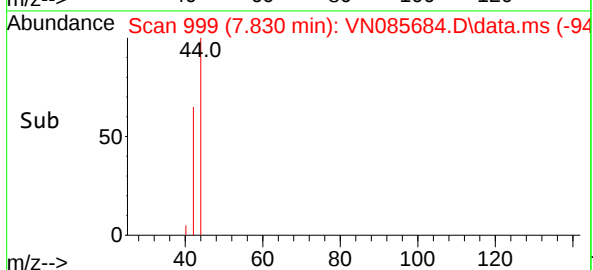
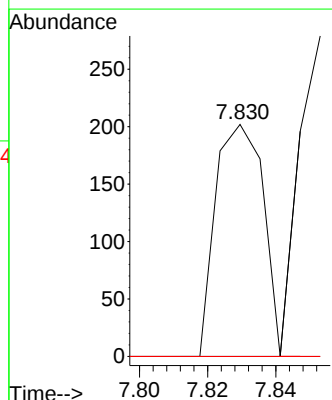
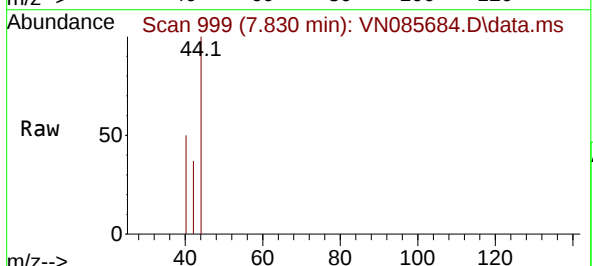
Tgt Ion: 42 Resp: 195

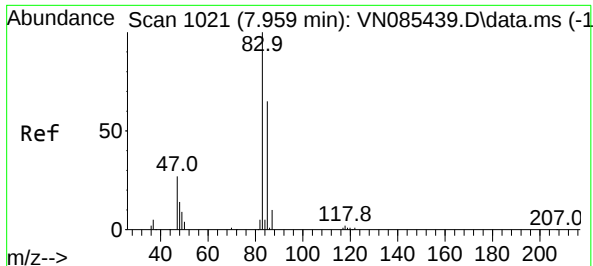
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

71 0.0 32.5 48.7#





#30

Chloroform

Concen: 0.228 ug/l

RT: 7.977 min Scan# 1093

Delta R.T. 0.018 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

Instrument :

MSVOA_N

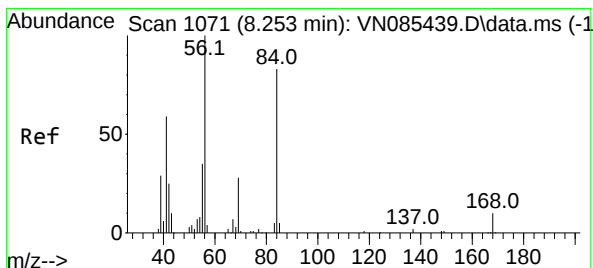
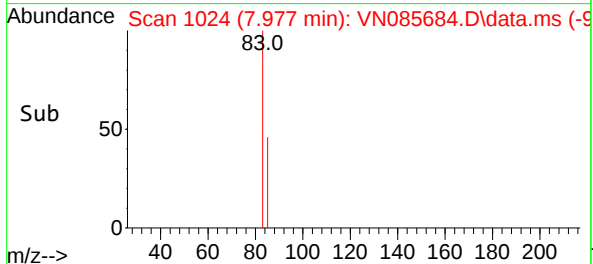
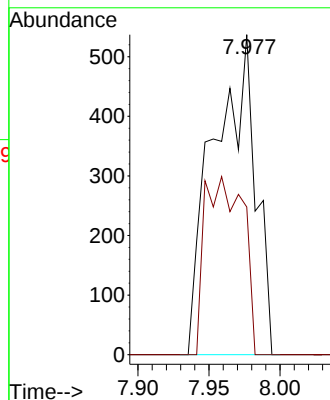
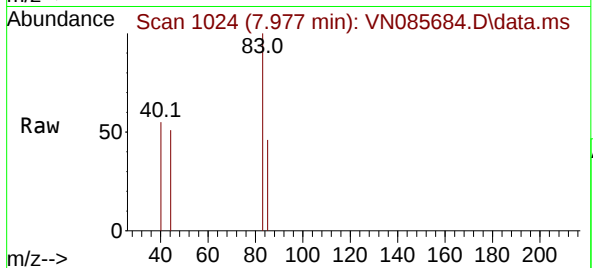
ClientSampleId :

Tgt Ion: 83 Resp: 1093

Ion Ratio Lower Upper

83 100

85 46.2 51.8 77.6#



#31

Cyclohexane

Concen: 1.086 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

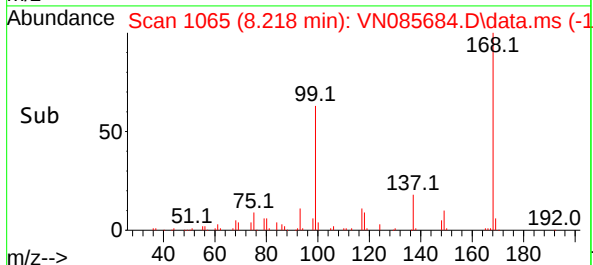
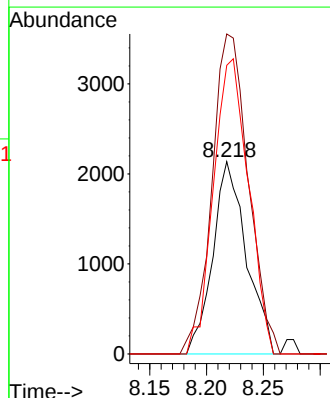
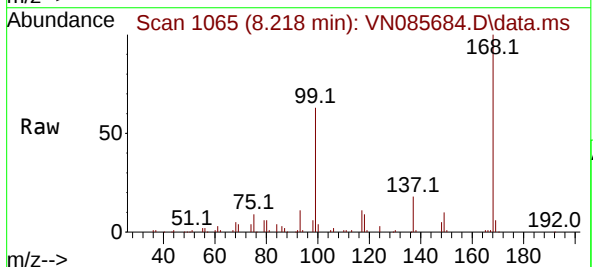
Tgt Ion: 56 Resp: 4387

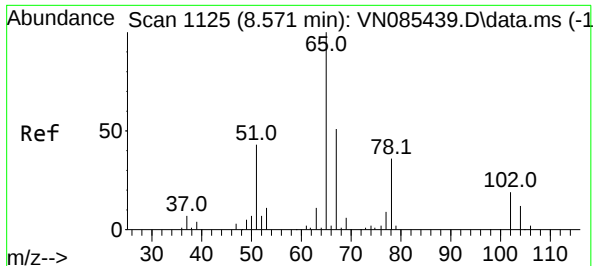
Ion Ratio Lower Upper

56 100

69 166.4 22.2 33.4#

84 150.1 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 48.282 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

Instrument :

MSVOA_N

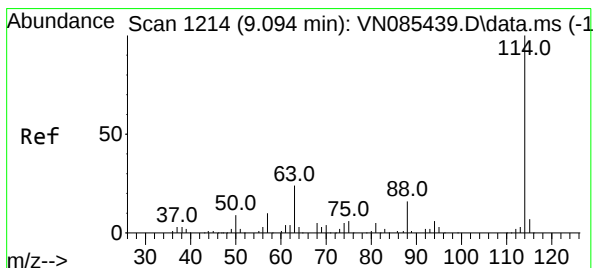
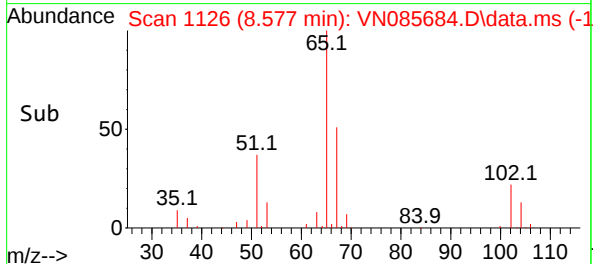
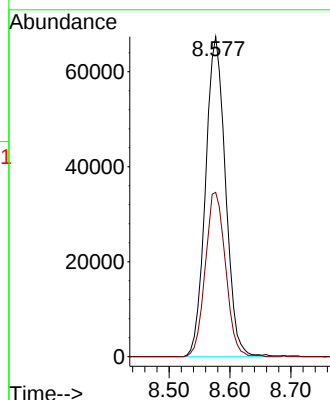
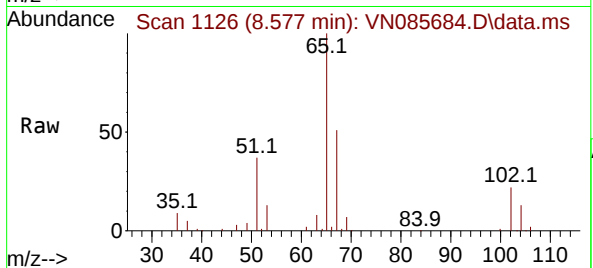
ClientSampleId :

Tgt Ion: 65 Resp: 153675

Ion Ratio Lower Upper

65 100

67 52.0 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

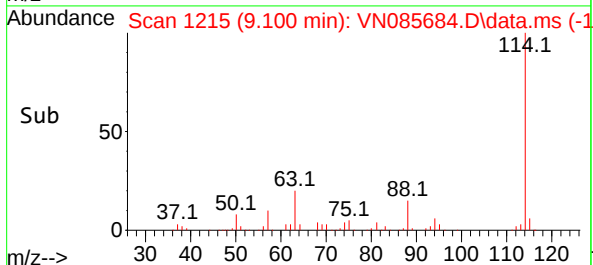
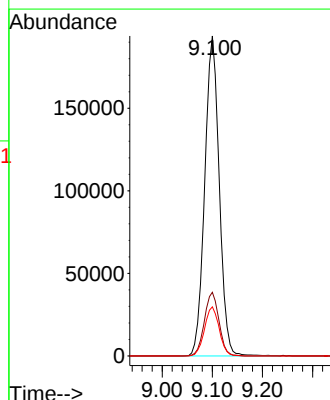
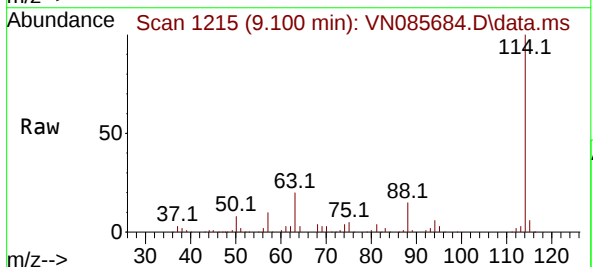
Tgt Ion: 114 Resp: 389563

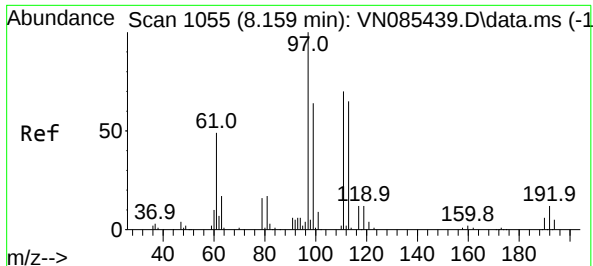
Ion Ratio Lower Upper

114 100

63 19.9 0.0 47.6

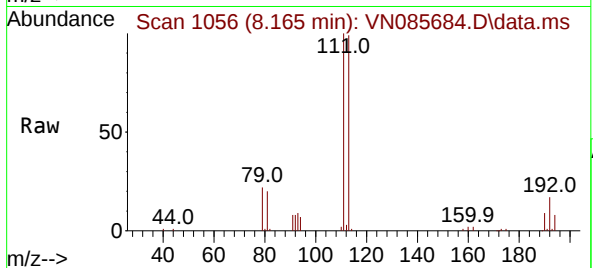
88 15.3 0.0 32.6



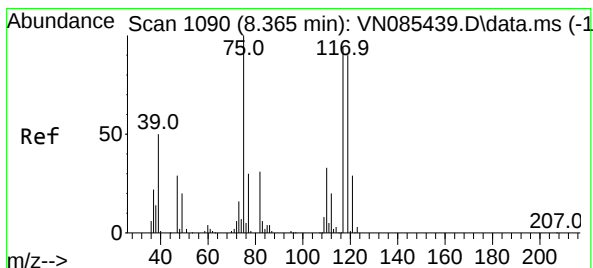
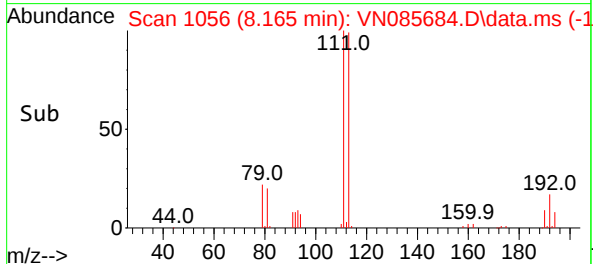
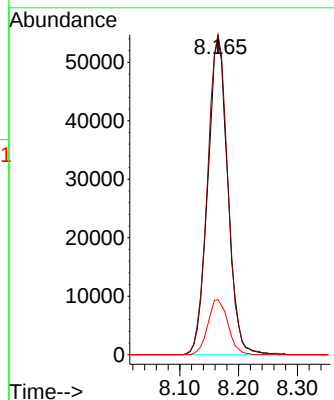


#35
Dibromofluoromethane
Concen: 47.310 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

Instrument :
MSVOA_N
ClientSampleId :

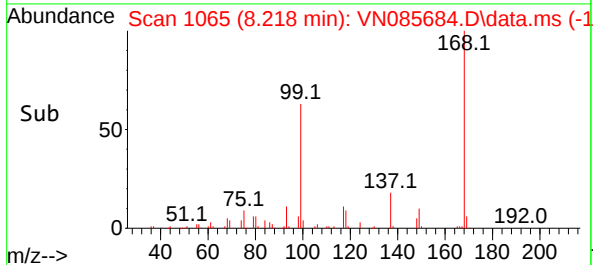
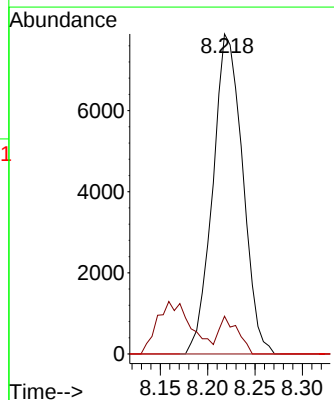
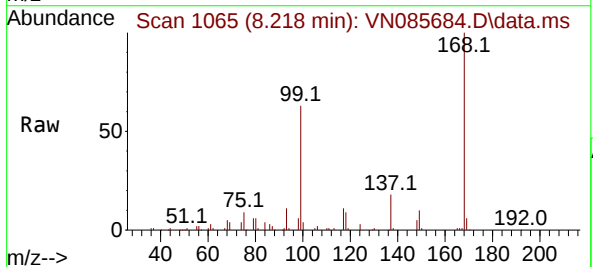


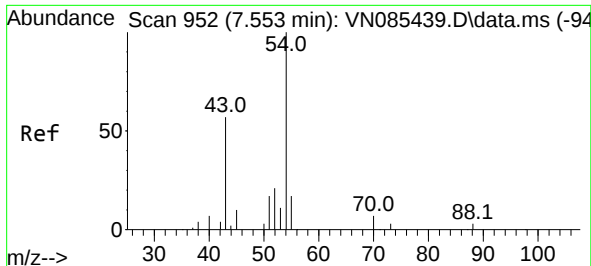
Tgt Ion:113 Resp: 127860
Ion Ratio Lower Upper
113 100
111 103.0 82.7 124.1
192 17.5 14.3 21.5



#36
1,1-Dichloropropene
Concen: 4.557 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

Tgt Ion: 75 Resp: 17285
Ion Ratio Lower Upper
75 100
110 7.3 16.5 49.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 0.964 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.012 min

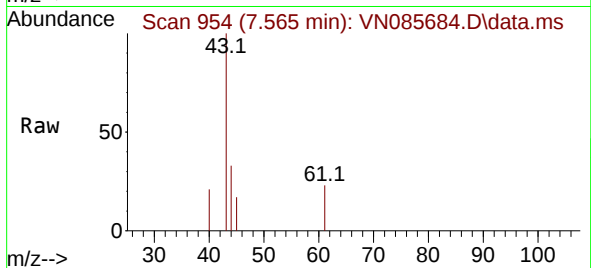
Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

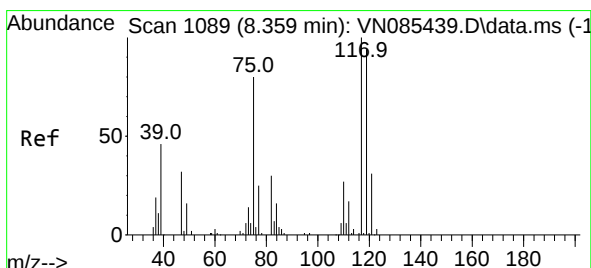
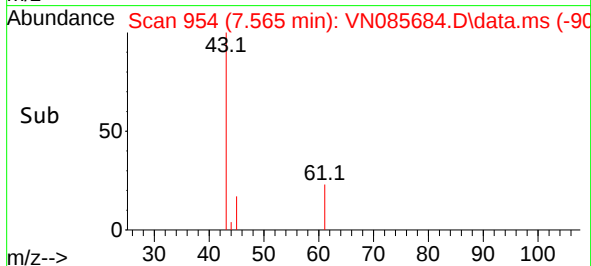
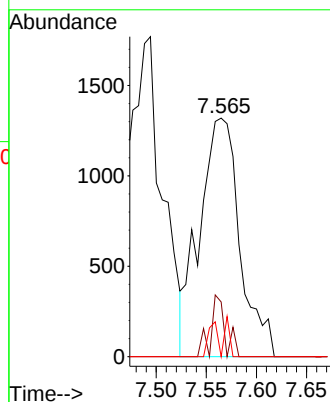
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43	Resp:	3692
Ion	Ratio	Lower Upper
43	100	
61	9.2	10.9 16.3#
70	3.4	7.5 11.3#



#38

Carbon Tetrachloride

Concen: 5.030 ug/l

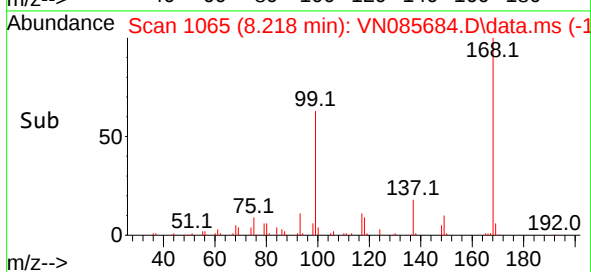
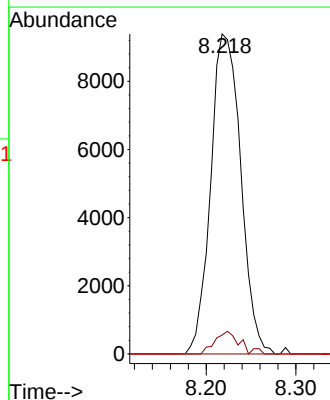
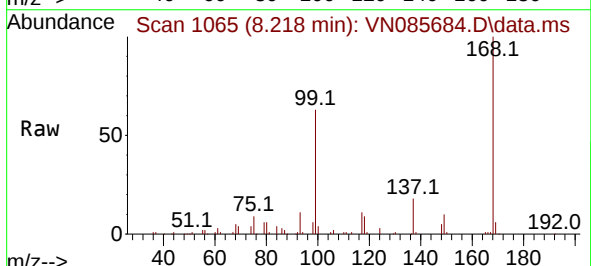
RT: 8.218 min Scan# 1065

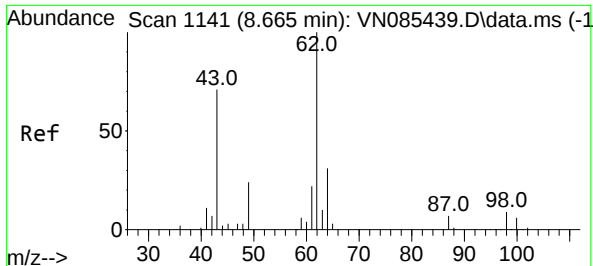
Delta R.T. -0.141 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

Tgt Ion: 117	Resp:	21842
Ion	Ratio	Lower Upper
117	100	
119	5.9	75.4 113.2#
121	0.0	24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.234 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.018 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

Instrument :

MSVOA_N

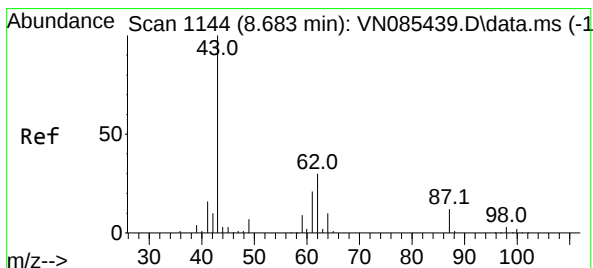
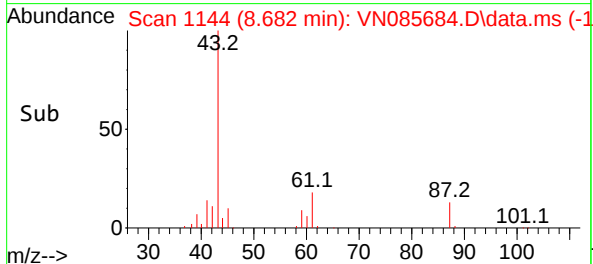
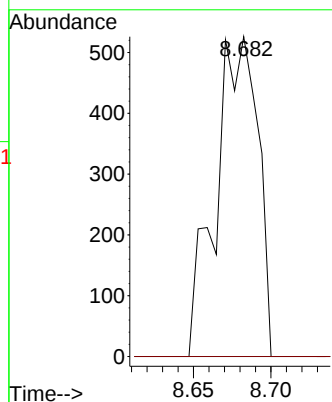
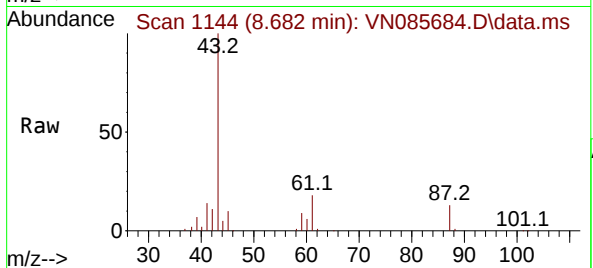
ClientSampleId :

Tgt Ion: 62 Resp: 1003

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.0



#43

Isopropyl Acetate

Concen: 26.585 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

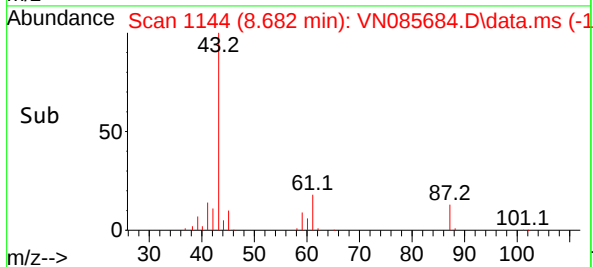
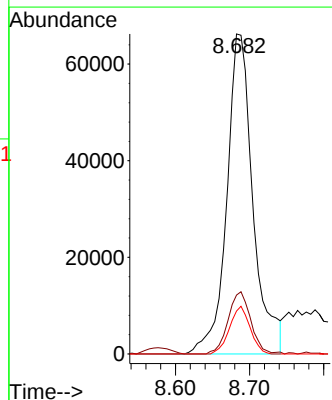
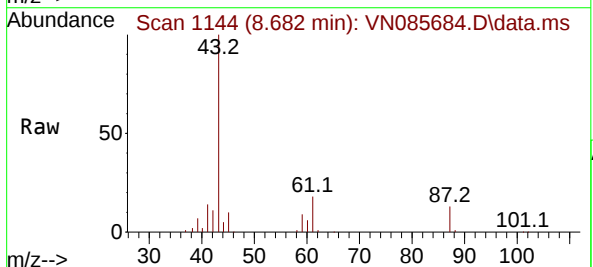
Tgt Ion: 43 Resp: 163091

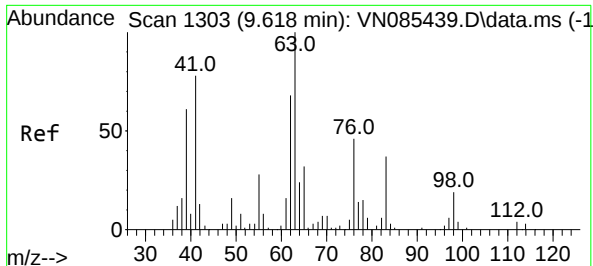
Ion Ratio Lower Upper

43 100

61 16.8 20.7 31.1#

87 11.6 9.8 14.8





#45

1,2-Dichloropropane

Concen: 0.553 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

Instrument :

MSVOA_N

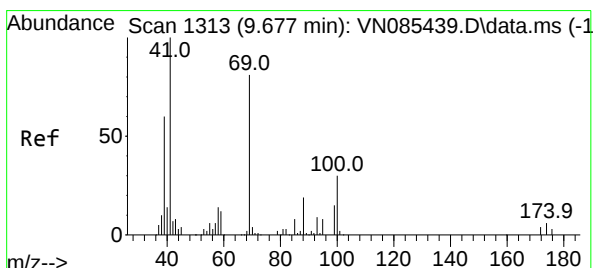
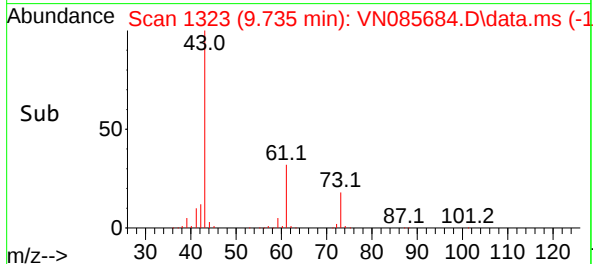
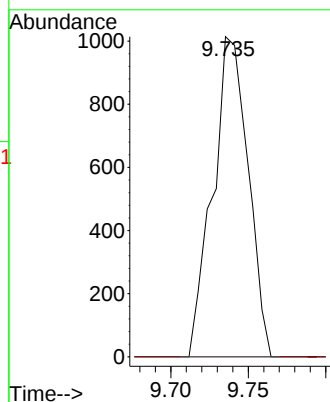
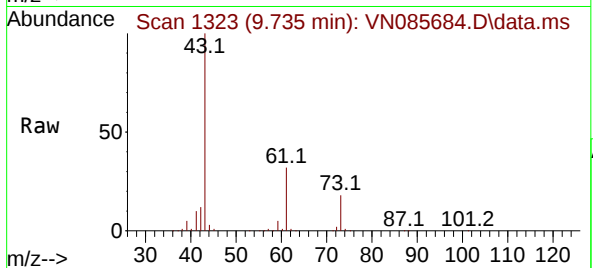
ClientSampleId :

Tgt Ion: 63 Resp: 1609

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 1.389 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.018 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

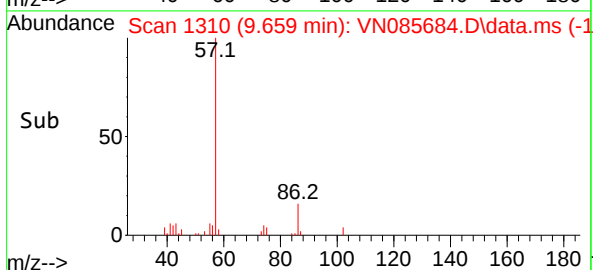
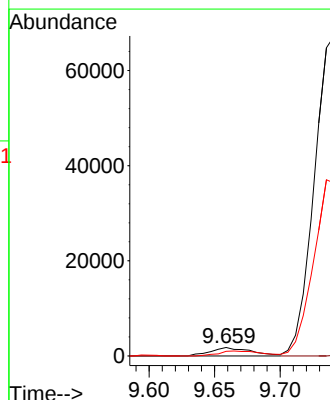
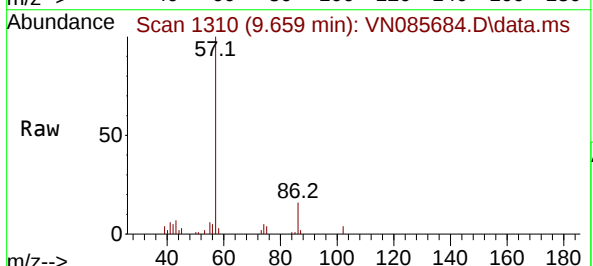
Tgt Ion: 41 Resp: 3834

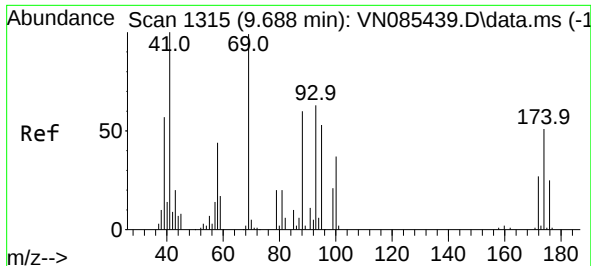
Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

39 62.3 49.0 73.6





#49

1,4-Dioxane

Concen: 3.162 ug/l

RT: 9.735 min Scan# 1315

Delta R.T. 0.047 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

Instrument :

MSVOA_N

ClientSampleId :

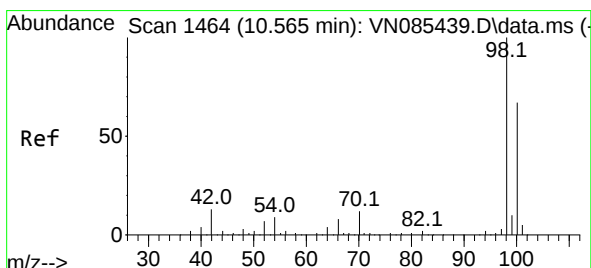
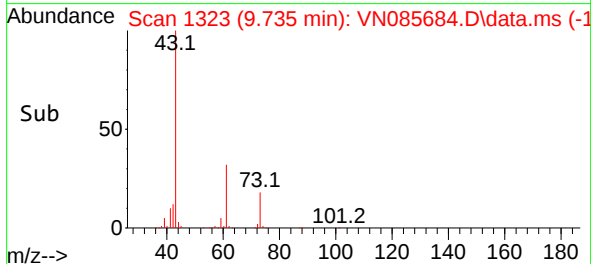
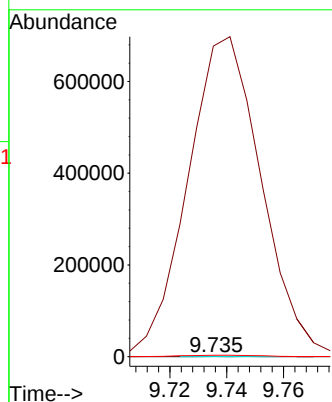
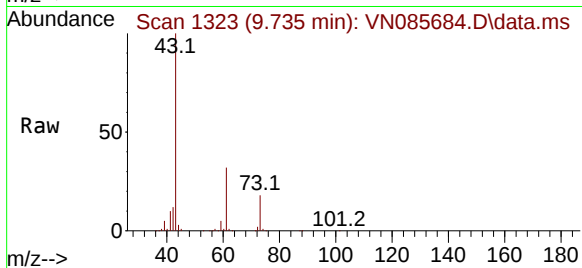
Tgt Ion: 88 Resp: 147

Ion Ratio Lower Upper

88 100

43 863627.9 26.6 39.8#

58 4359.2 59.5 89.3#



#50

Toluene-d8

Concen: 50.812 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085684.D

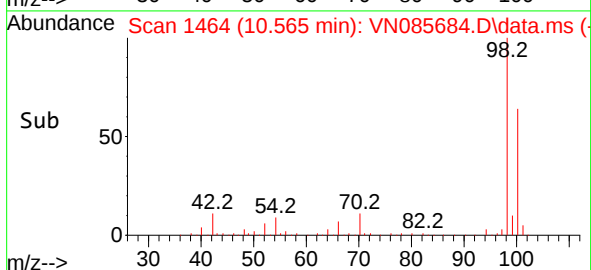
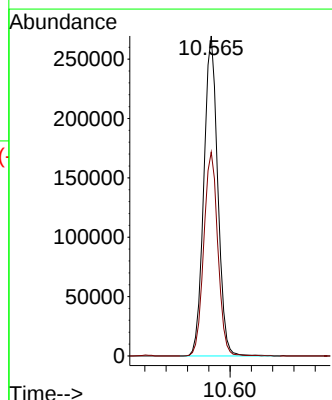
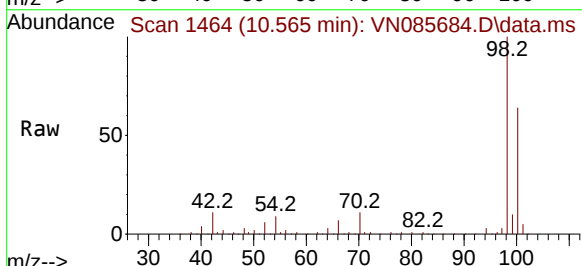
Acq: 05 Feb 2025 17:59

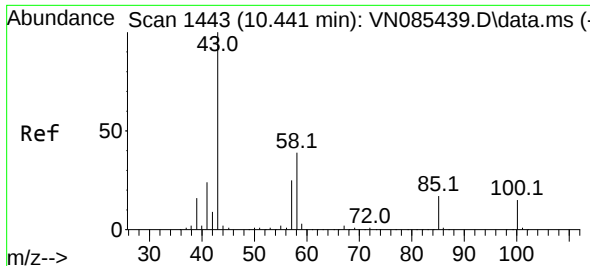
Tgt Ion: 98 Resp: 487912

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.4

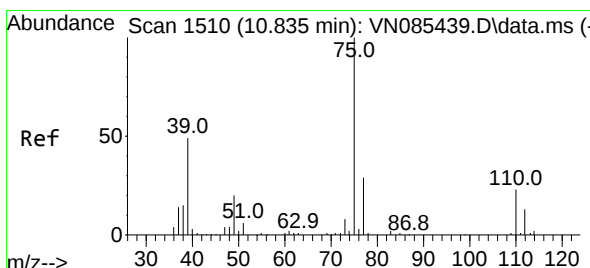
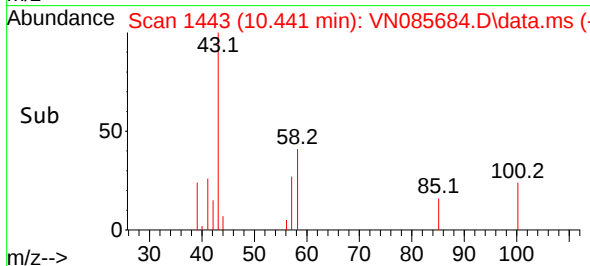
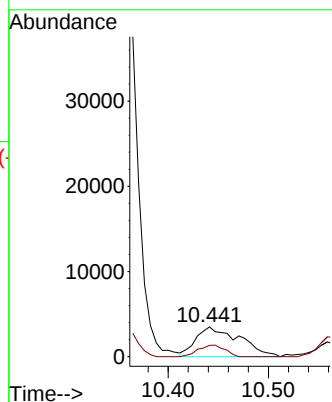
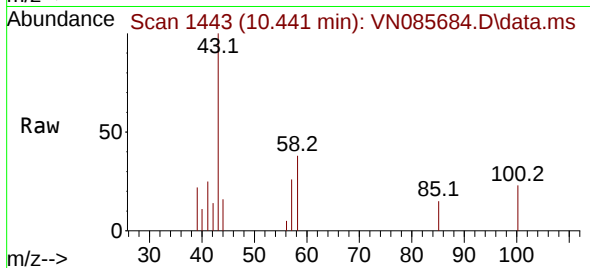




#51
4-Methyl-2-Pentanone
Concen: 2.977 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

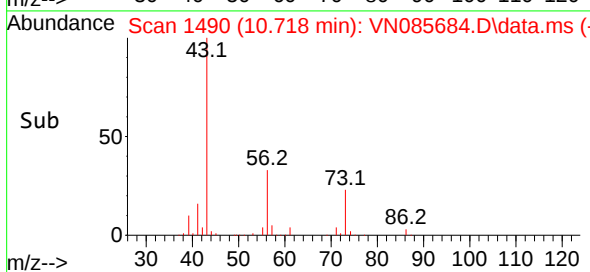
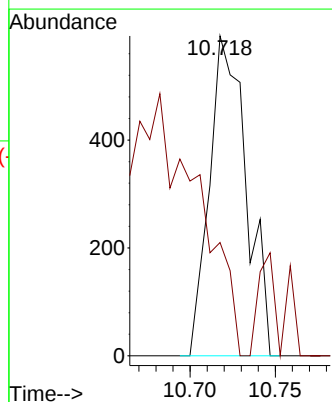
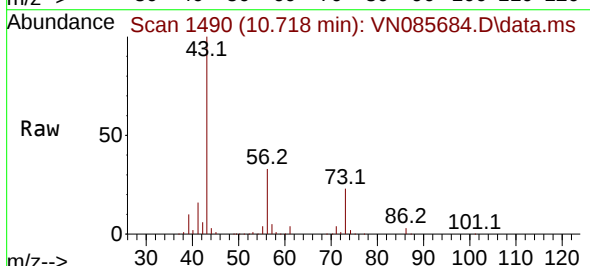
Instrument :
MSVOA_N
ClientSampleId :

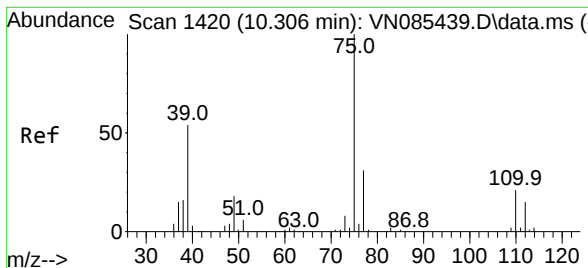
Tgt Ion: 43 Resp: 10597
Ion Ratio Lower Upper
43 100
58 23.8 30.5 45.7#



#53
t-1,3-Dichloropropene
Concen: 0.220 ug/l
RT: 10.718 min Scan# 1490
Delta R.T. -0.118 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

Tgt Ion: 75 Resp: 890
Ion Ratio Lower Upper
75 100
77 35.4 23.5 35.3#

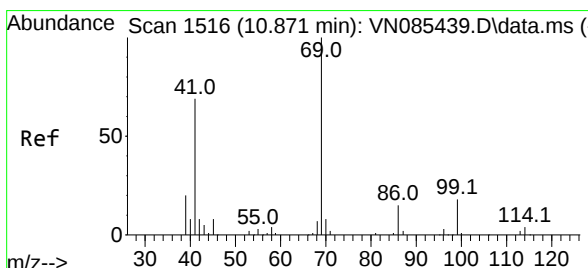
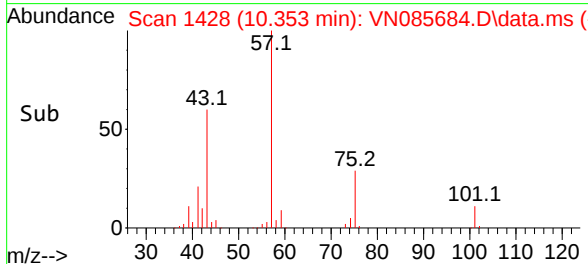
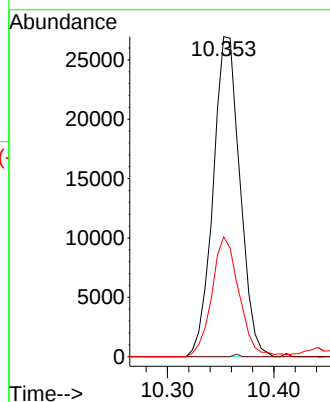
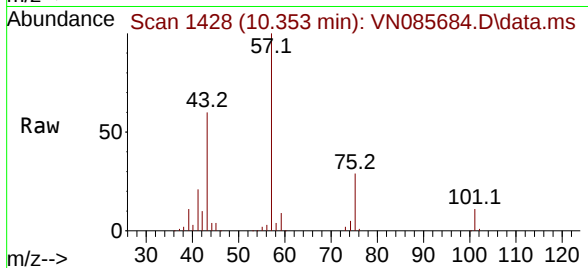




#54
cis-1,3-Dichloropropene
Concen: 10.896 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

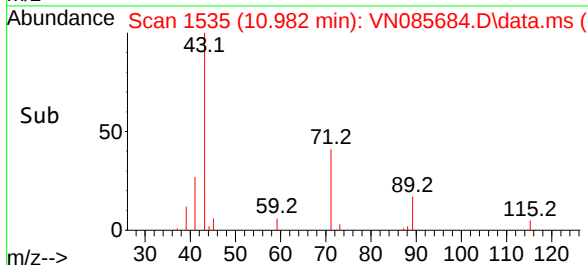
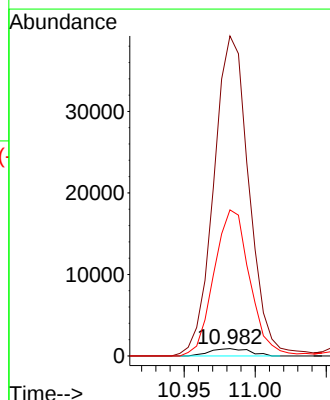
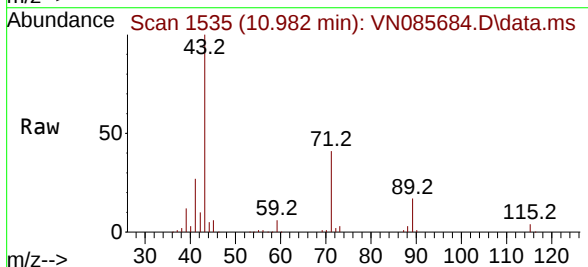
Instrument :
MSVOA_N
ClientSampleId :

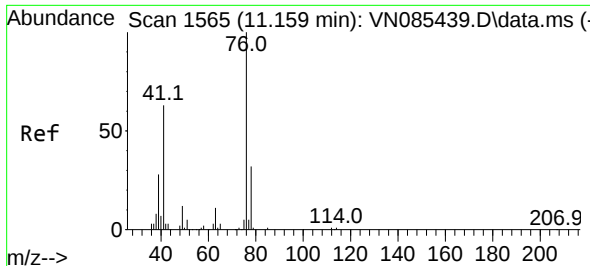
Tgt Ion: 75 Resp: 47070
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#
39 37.4 43.1 64.7#



#56
Ethyl methacrylate
Concen: 2.315 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

Tgt Ion: 69 Resp: 1759
Ion Ratio Lower Upper
69 100
41 3860.2 54.6 82.0#
39 1794.8 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.427 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

Instrument :

MSVOA_N

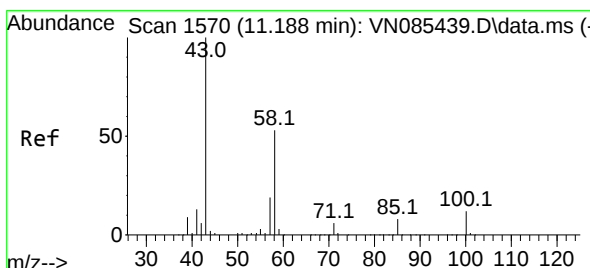
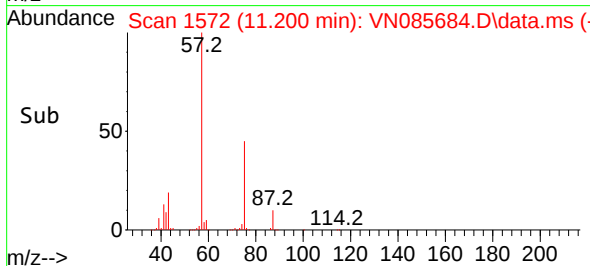
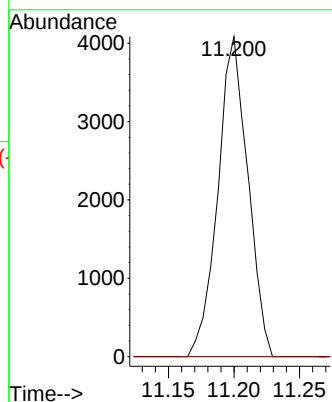
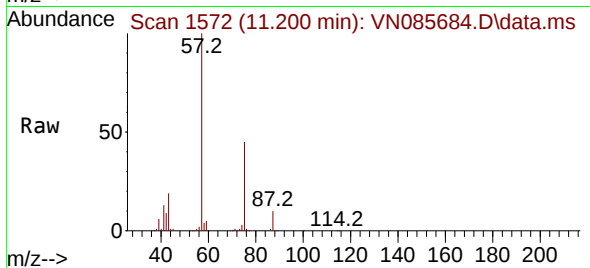
ClientSampleId :

Tgt Ion: 76 Resp: 6485

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 27.561 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085684.D

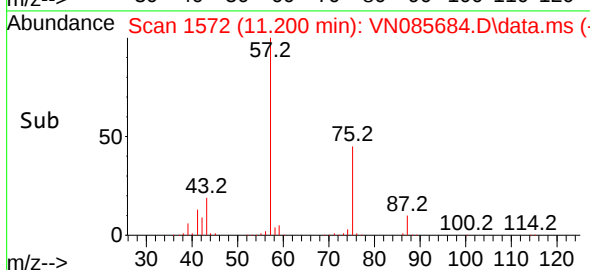
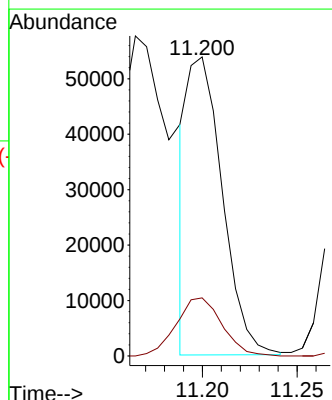
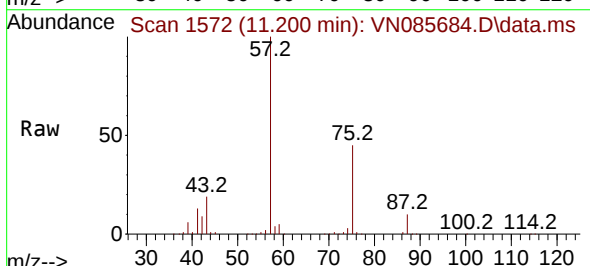
Acq: 05 Feb 2025 17:59

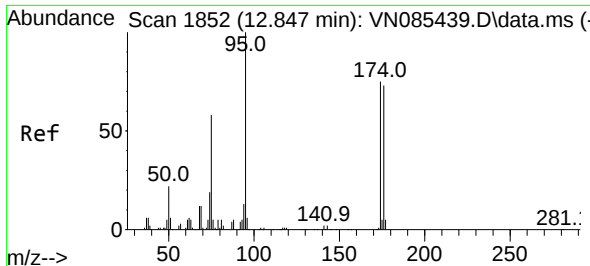
Tgt Ion: 43 Resp: 69035

Ion Ratio Lower Upper

43 100

58 25.6 26.2 78.6#

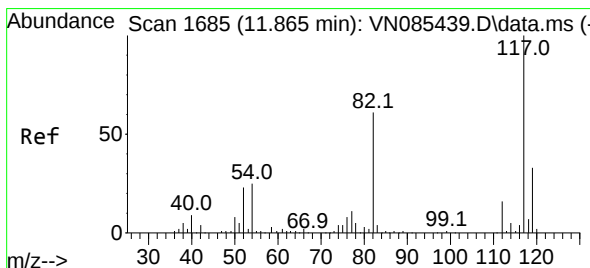
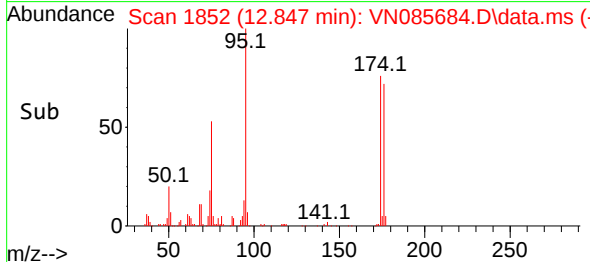
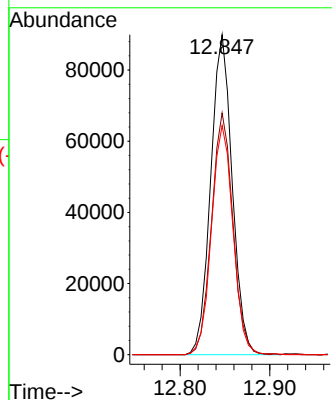
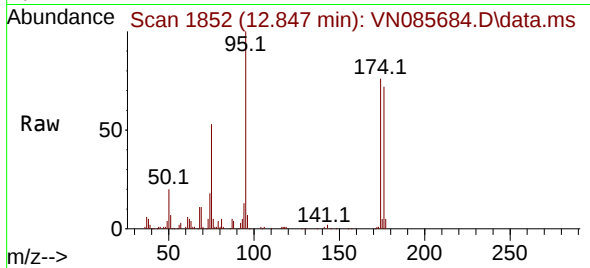




#62
4-Bromofluorobenzene
Concen: 45.501 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

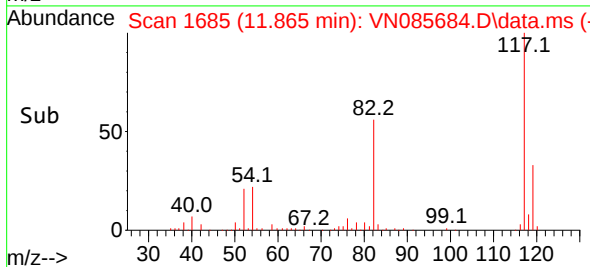
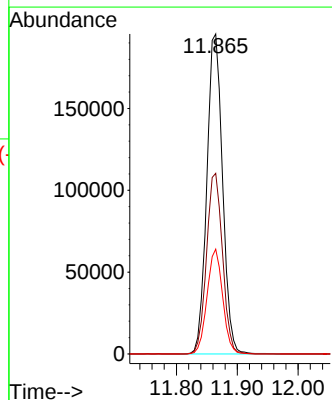
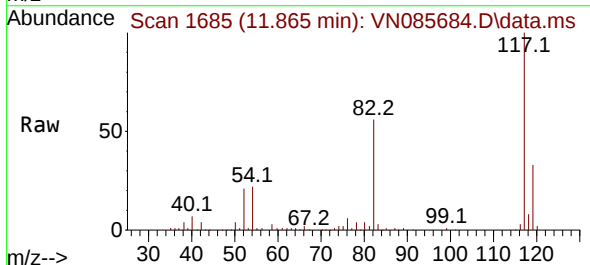
Instrument :
MSVOA_N
ClientSampleId :

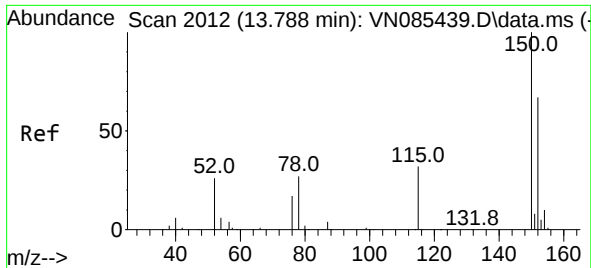
Tgt Ion: 95 Resp: 149457
Ion Ratio Lower Upper
95 100
174 75.1 0.0 145.0
176 71.9 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

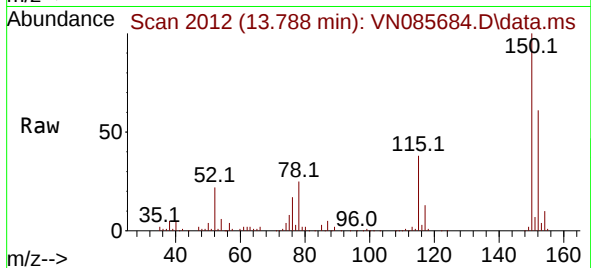
Tgt Ion: 117 Resp: 350734
Ion Ratio Lower Upper
117 100
82 56.5 48.6 72.8
119 32.8 26.6 39.8



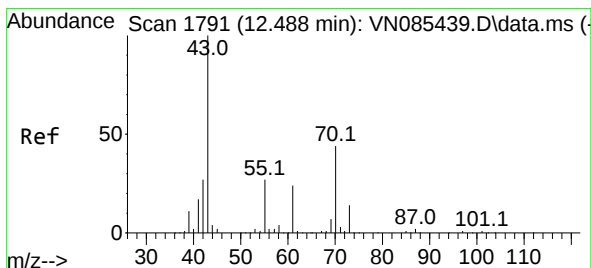
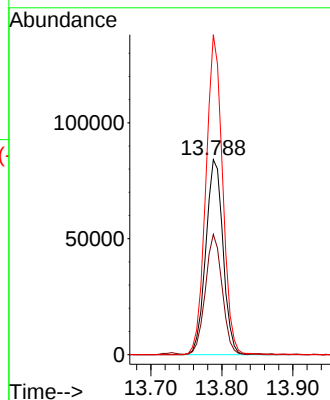
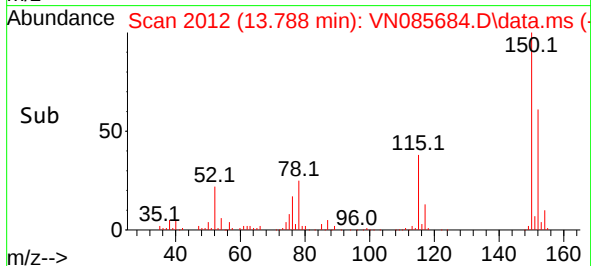


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN085684.D
 Acq: 05 Feb 2025 17:59

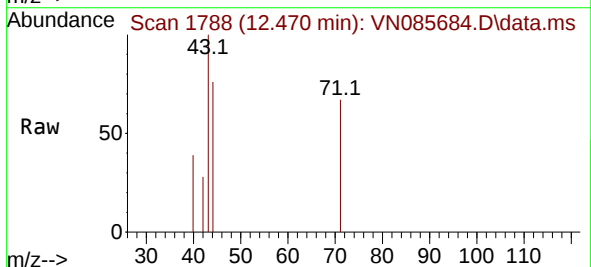
Instrument :
 MSVOA_N
 ClientSampleId :



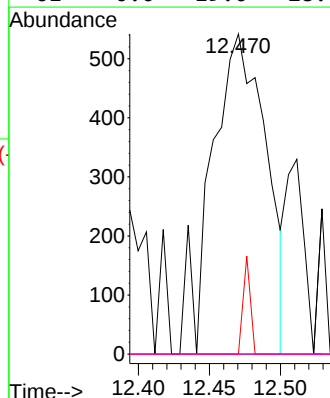
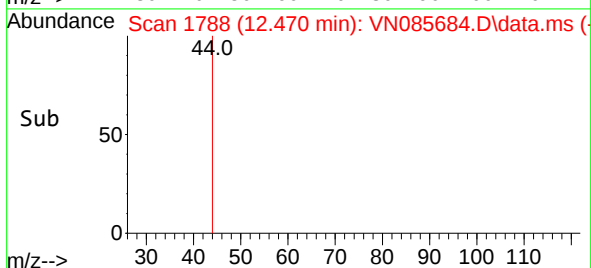
Tgt Ion:152 Resp: 142442
 Ion Ratio Lower Upper
 152 100
 115 60.0 31.1 93.3
 150 158.4 0.0 343.6

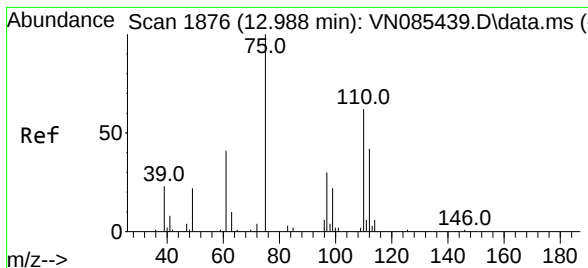


#74
 N-ethyl acetate
 Concen: 0.336 ug/l
 RT: 12.470 min Scan# 1788
 Delta R.T. -0.018 min
 Lab File: VN085684.D
 Acq: 05 Feb 2025 17:59



Tgt Ion: 43 Resp: 1452
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.0 51.0#
 55 4.1 21.4 32.2#
 61 0.0 19.0 28.4#





#76

1,2,3-Trichloropropane

Concen: 27.070 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

Instrument :

MSVOA_N

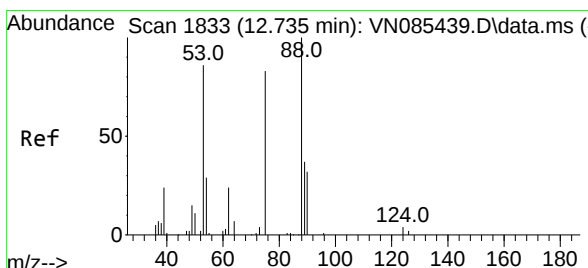
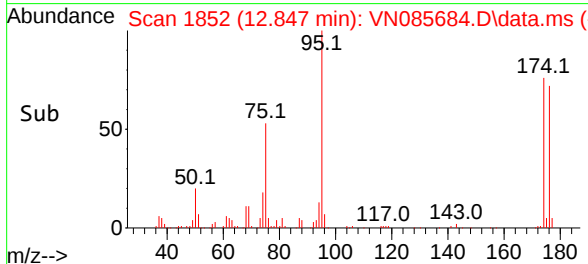
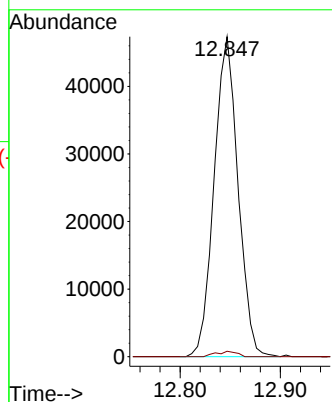
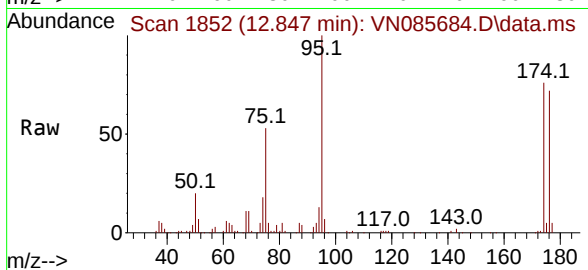
ClientSampleId :

Tgt Ion: 75 Resp: 78372

Ion Ratio Lower Upper

75 100

77 1.5 109.7 329.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.240 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN085684.D

Acq: 05 Feb 2025 17:59

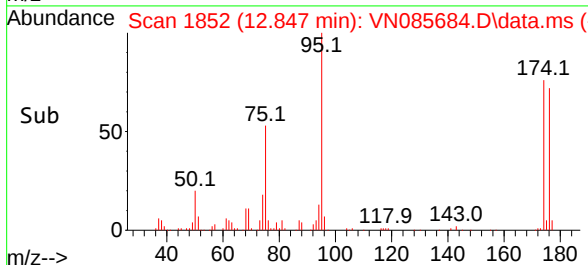
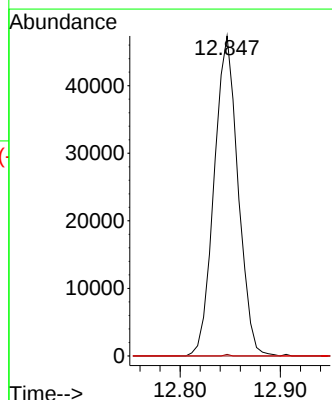
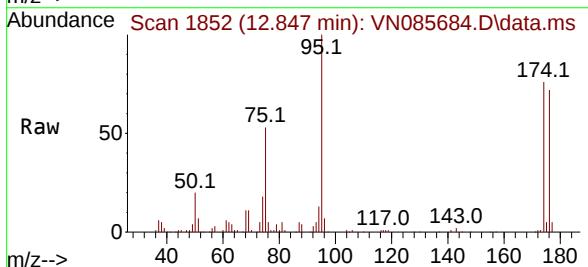
Tgt Ion: 75 Resp: 78372

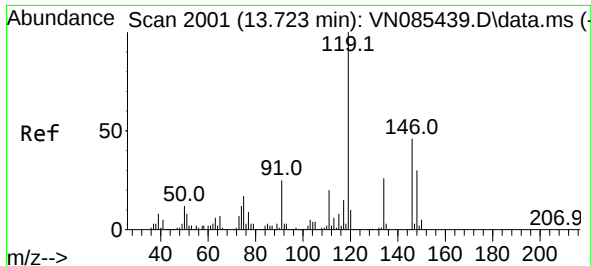
Ion Ratio Lower Upper

75 100

53 0.1 95.6 143.4#

89 0.0 37.0 55.6#

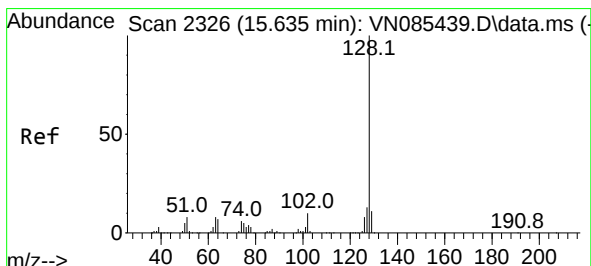
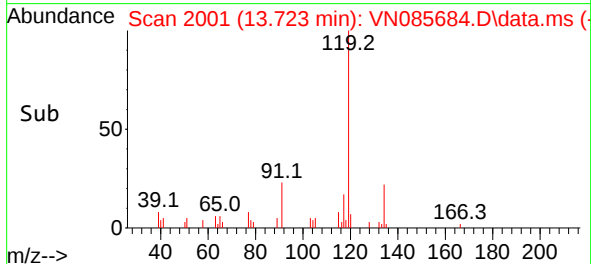
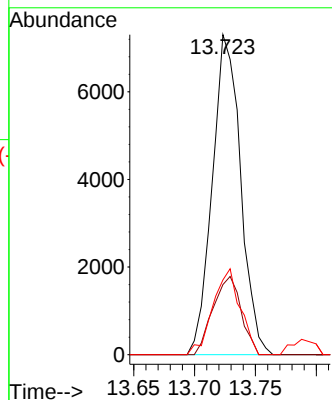
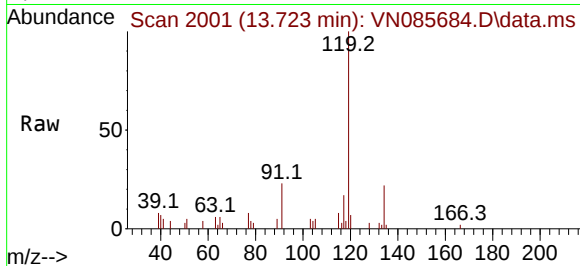




#86
p-Isopropyltoluene
Concen: 1.629 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.3	12.7	38.0
91	25.9	12.7	38.1



#95
Naphthalene
Concen: 6.918 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085684.D
Acq: 05 Feb 2025 17:59

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.6	16.0
129	10.6	8.8	13.2

