

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
 Data File : VN085542.D
 Acq On : 28 Jan 2025 16:37
 Operator : JC\MD
 Sample : PB166233ZHE#12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

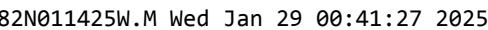
Quant Time: Jan 29 00:41:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	167014	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	325634	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	311195	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	112270	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	151715	56.275	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.560%			
35) Dibromofluoromethane	8.165	113	115150	50.972	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.940%			
50) Toluene-d8	10.565	98	425129	52.965	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.940%			
62) 4-Bromofluorobenzene	12.847	95	127048	46.272	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.540%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	582	0.238	ug/l #	73
11) Tert butyl alcohol	5.512	59	84	0.272	ug/l #	71
16) Acetone	4.424	43	58659	67.340	ug/l	96
18) Methyl Acetate	5.042	43	1903	0.718	ug/l #	59
20) Methylene Chloride	5.271	84	2010	0.932	ug/l #	91
25) 2-Butanone	7.488	43	5907	4.608	ug/l	99
29) Tetrahydrofuran	7.841	42	282	0.347	ug/l #	34
30) Chloroform	7.971	83	1625	0.399	ug/l #	82
31) Cyclohexane	8.224	56	4694	1.372	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	16369	5.163	ug/l #	50
37) Ethyl Acetate	7.565	43	3025	0.945	ug/l #	83
38) Carbon Tetrachloride	8.224	117	18662	5.141	ug/l #	17
42) 1,2-Dichloroethane	8.677	62	791	0.220	ug/l #	76
43) Isopropyl Acetate	8.688	43	144272	28.134	ug/l #	85
45) 1,2-Dichloropropane	9.735	63	1656	0.681	ug/l #	43
48) Methyl methacrylate	9.741	41	129471	56.104	ug/l #	47
49) 1,4-Dioxane	9.741	88	146	3.757	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	11514	3.869	ug/l #	79
53) t-1,3-Dichloropropene	10.735	75	828	0.245	ug/l	95
54) cis-1,3-Dichloropropene	10.359	75	41886	11.600	ug/l #	70
56) Ethyl methacrylate	10.982	69	1954	2.442	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6611	1.740	ug/l #	43
59) 2-Hexanone	11.200	43	77833	37.174	ug/l #	59
71) Bromoform	12.847	173	1209	0.675	ug/l #	1
74) N-amyl acetate	12.482	43	1734	0.509	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	71188	31.197	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	71188	84.405	ug/l #	3

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

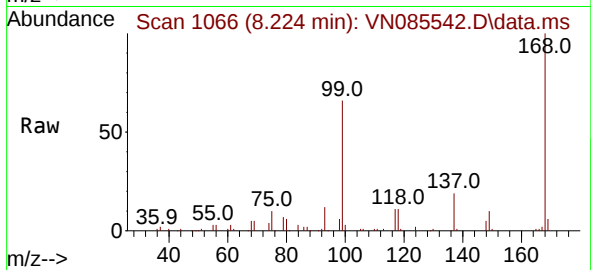
Quant Time: Jan 29 00:41:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
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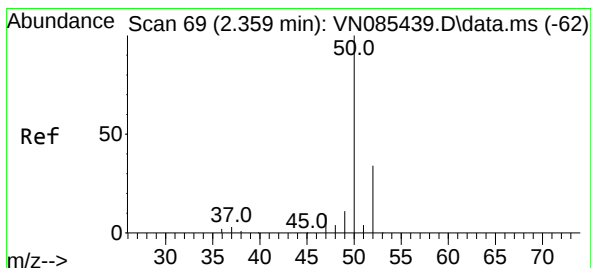
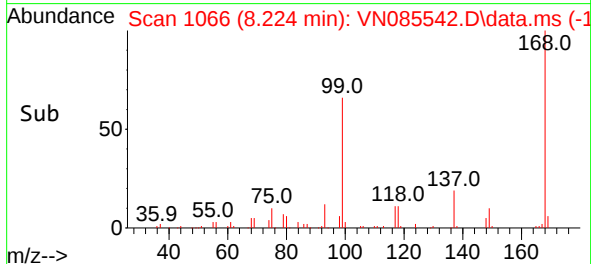
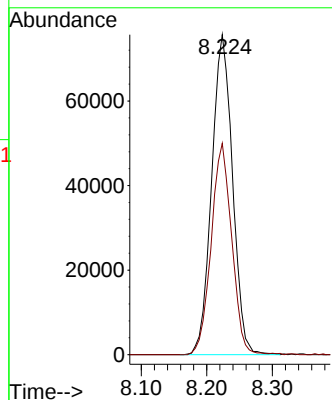


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

Instrument :
MSVOA_N
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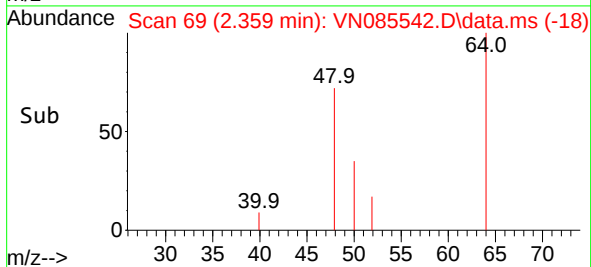
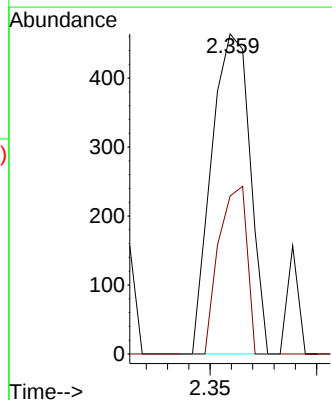
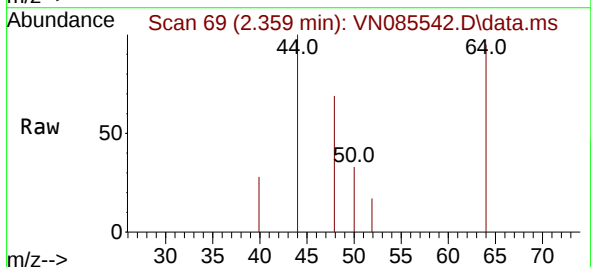


Tgt Ion:168 Resp: 167014
Ion Ratio Lower Upper
168 100
99 66.1 53.6 80.4



#3
Chloromethane
Concen: 0.238 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

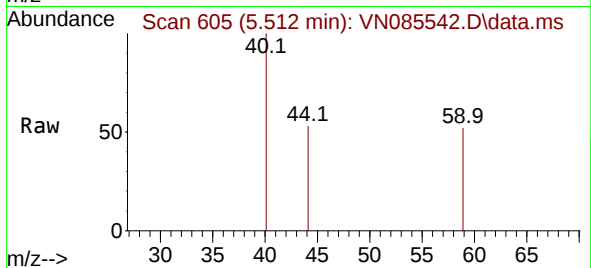
Tgt Ion: 50 Resp: 582
Ion Ratio Lower Upper
50 100
52 49.4 27.0 40.6#



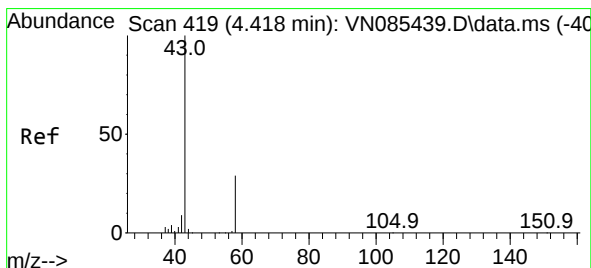
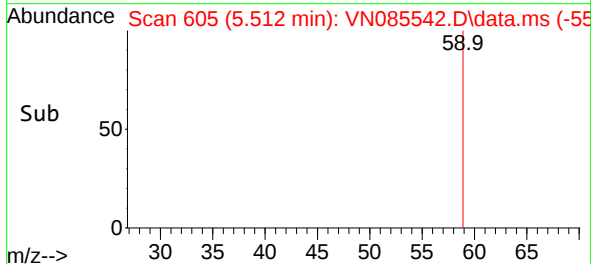
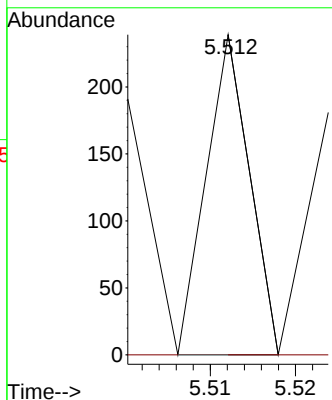


#11
Tert butyl alcohol
Concen: 0.272 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :

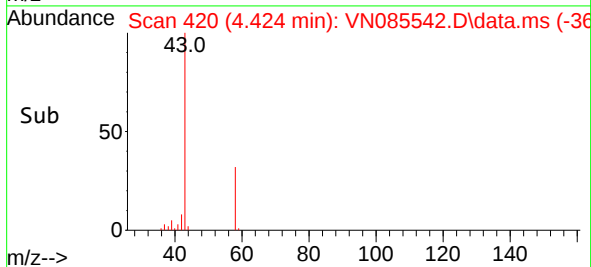
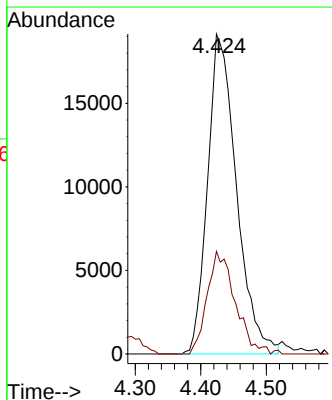
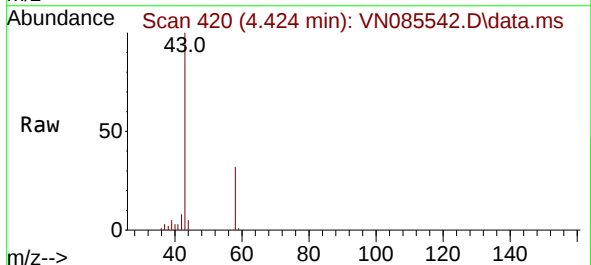


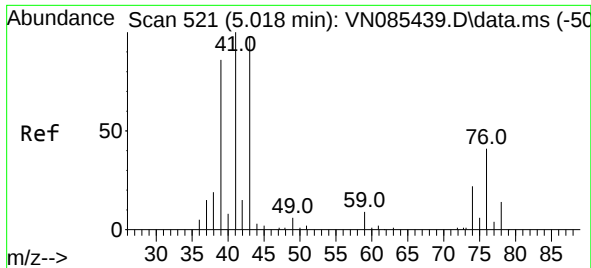
Tgt Ion: 59 Resp: 84
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#16
Acetone
Concen: 67.340 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

Tgt Ion: 43 Resp: 58659
Ion Ratio Lower Upper
43 100
58 32.1 23.8 35.6

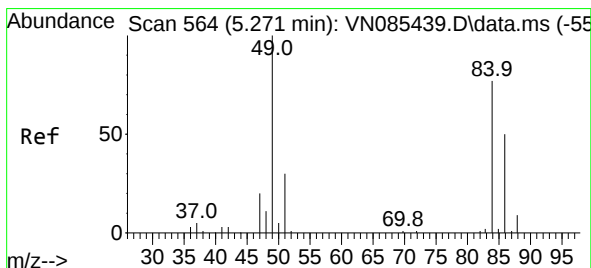
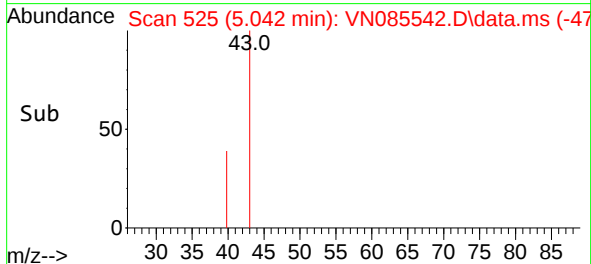
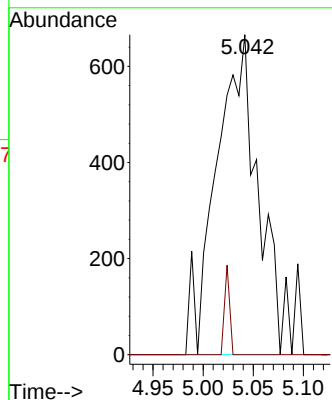
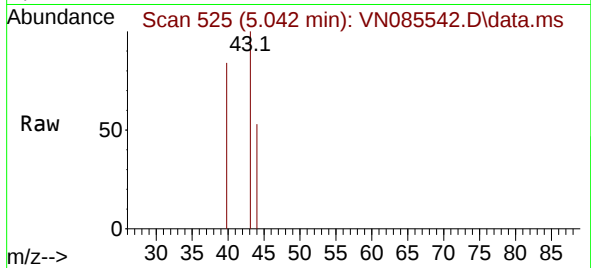




#18
Methyl Acetate
Concen: 0.718 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

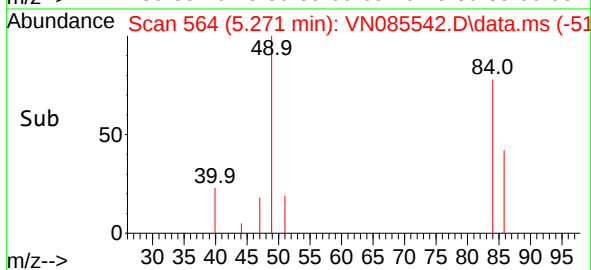
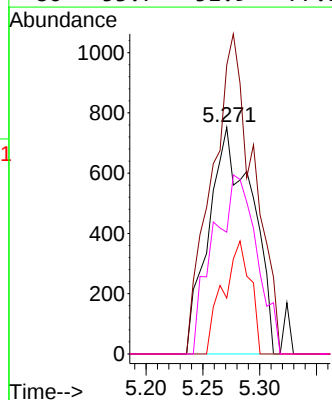
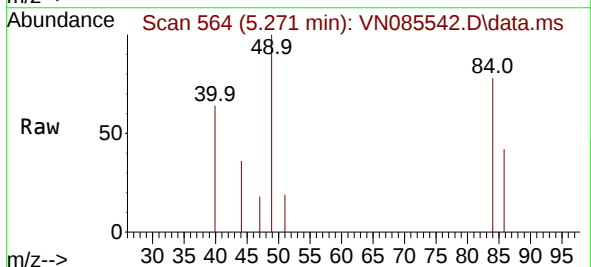
Instrument :
MSVOA_N
ClientSampleId :

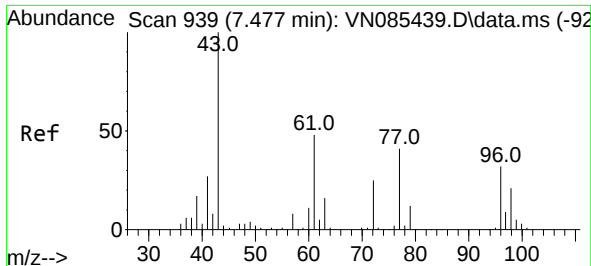
Tgt Ion: 43 Resp: 1903
Ion Ratio Lower Upper
43 100
74 3.5 18.6 28.0#



#20
Methylene Chloride
Concen: 0.932 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

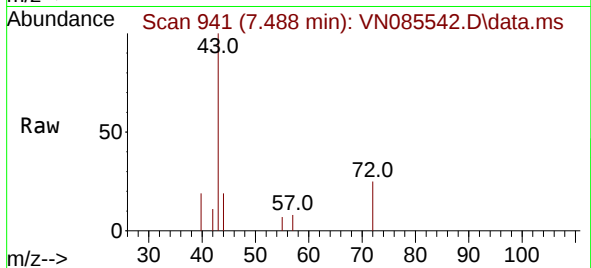
Tgt Ion: 84 Resp: 2010
Ion Ratio Lower Upper
84 100
49 127.5 104.1 156.1
51 24.6 31.0 46.4#
86 53.7 51.9 77.9



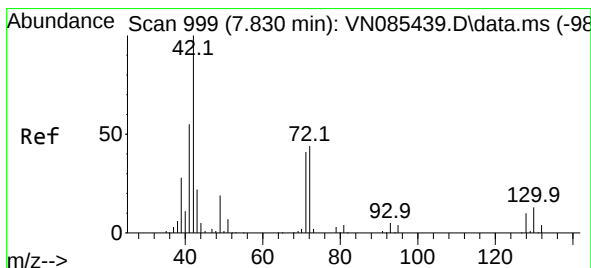
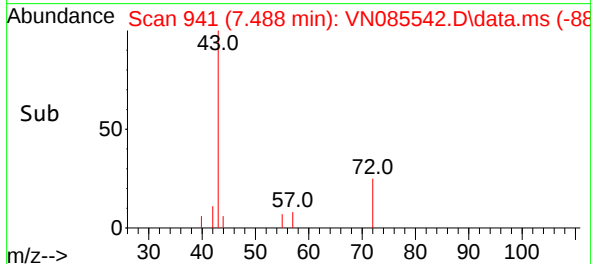
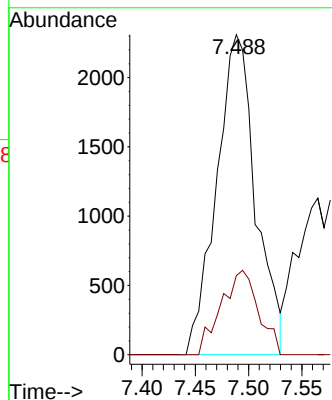


#25
2-Butanone
Concen: 4.608 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :

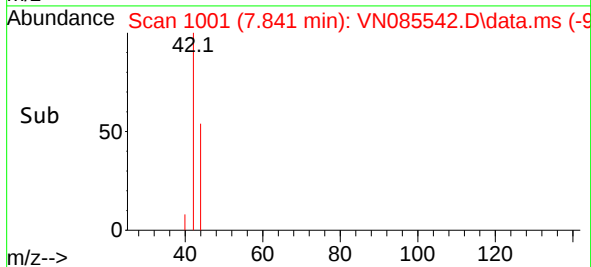
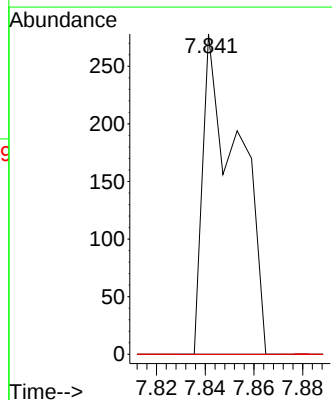
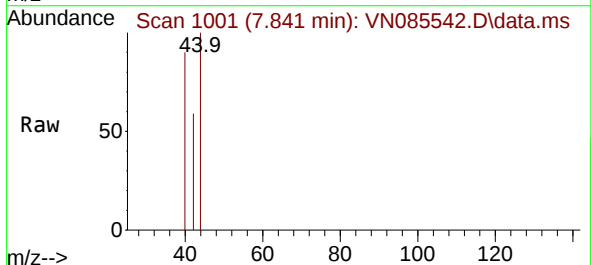


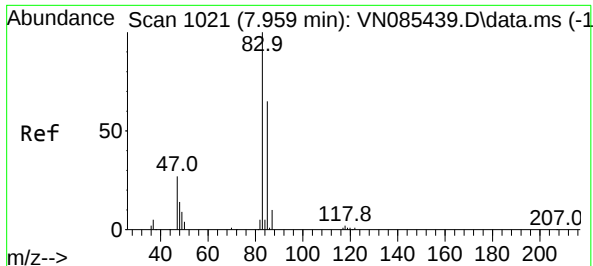
Tgt Ion: 43 Resp: 5907
Ion Ratio Lower Upper
43 100
72 24.7 20.2 30.4



#29
Tetrahydrofuran
Concen: 0.347 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.012 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

Tgt Ion: 42 Resp: 282
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.5 48.7#





#30

Chloroform

Concen: 0.399 ug/l

RT: 7.971 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN085542.D

Acq: 28 Jan 2025 16:37

Instrument :

MSVOA_N

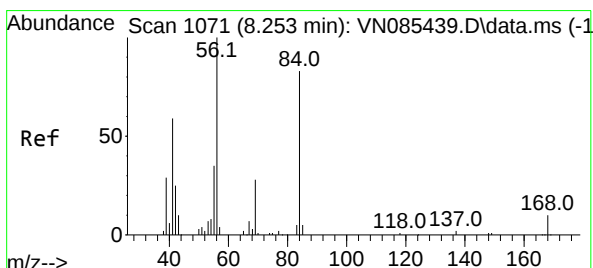
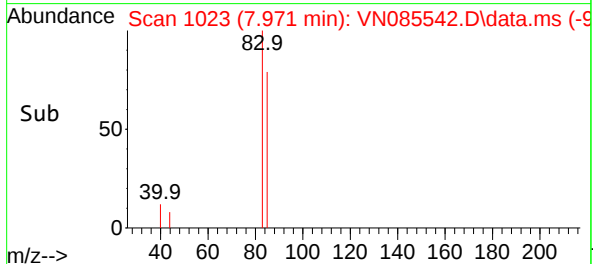
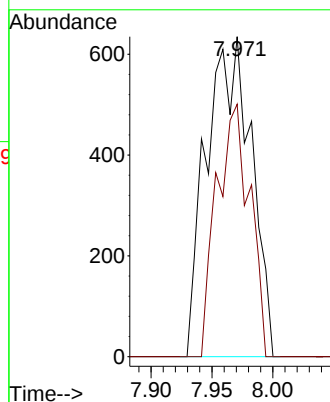
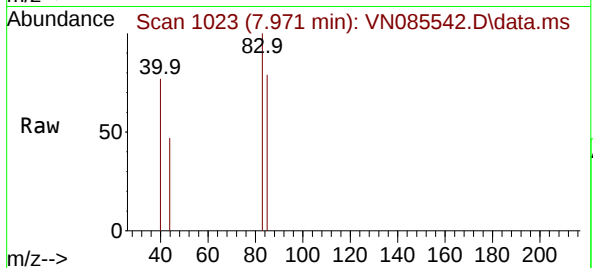
ClientSampleId :

Tgt Ion: 83 Resp: 1625

Ion Ratio Lower Upper

83 100

85 78.9 51.8 77.6#



#31

Cyclohexane

Concen: 1.372 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN085542.D

Acq: 28 Jan 2025 16:37

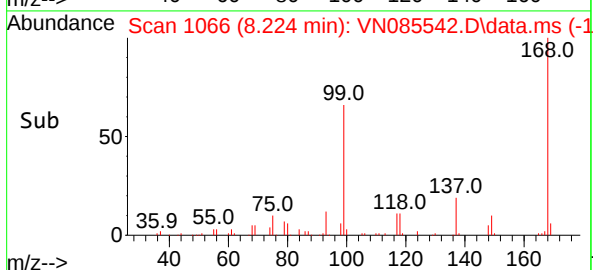
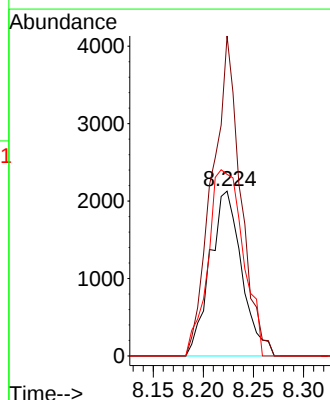
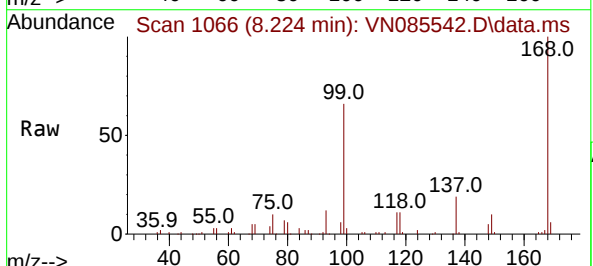
Tgt Ion: 56 Resp: 4694

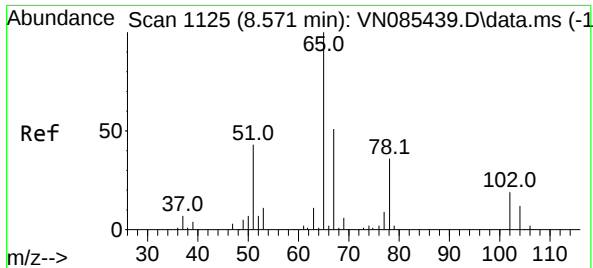
Ion Ratio Lower Upper

56 100

69 194.2 22.2 33.4#

84 110.2 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 56.275 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085542.D

Acq: 28 Jan 2025 16:37

Instrument :

MSVOA_N

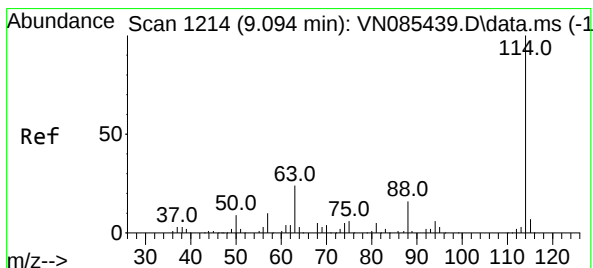
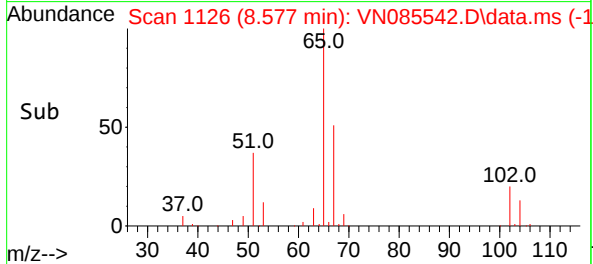
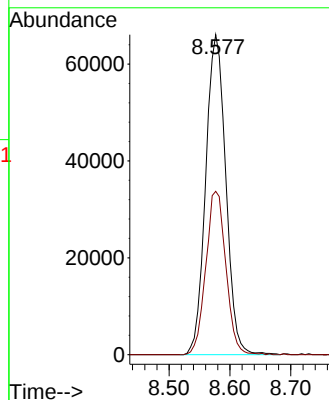
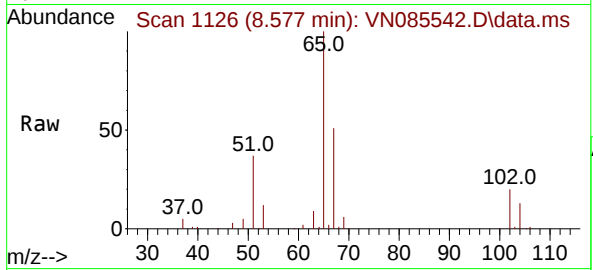
ClientSampleId :

Tgt Ion: 65 Resp: 151715

Ion Ratio Lower Upper

65 100

67 50.8 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: VN085542.D

Acq: 28 Jan 2025 16:37

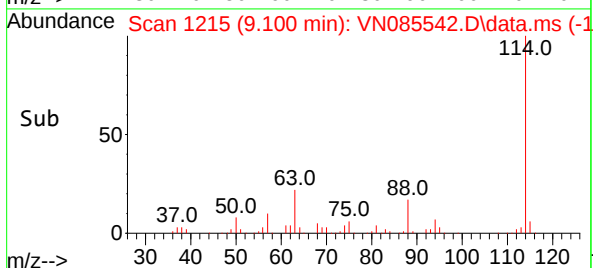
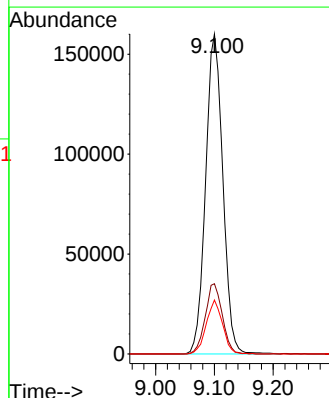
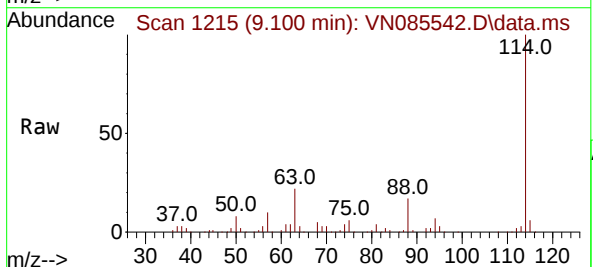
Tgt Ion: 114 Resp: 325634

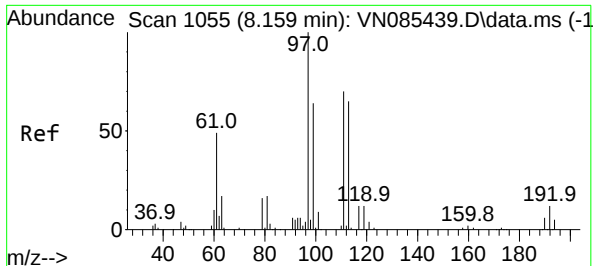
Ion Ratio Lower Upper

114 100

63 22.0 0.0 47.6

88 16.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.972 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

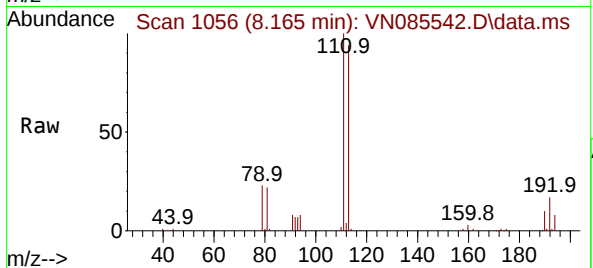
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Acq: 28 Jan 2025 16:37

Instrument :

MSVOA_N

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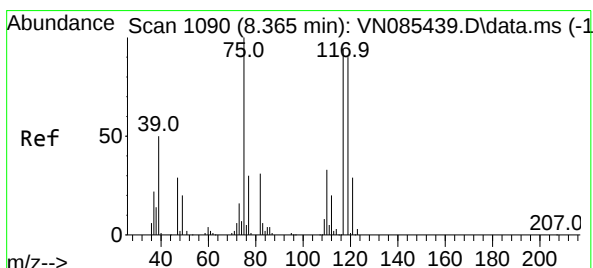
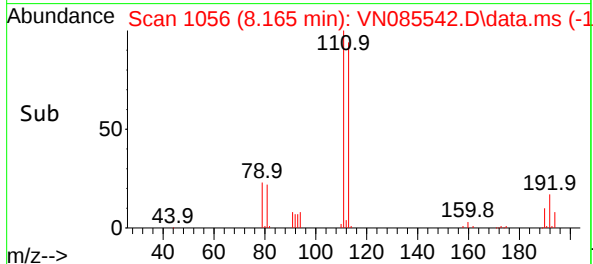
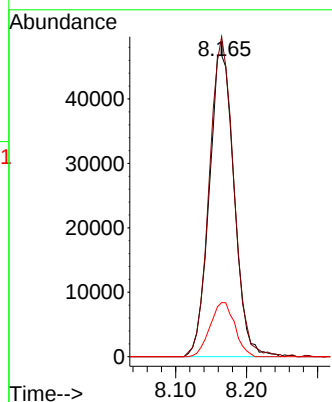
Tgt Ion:113 Resp: 115150

Ion Ratio Lower Upper

113 100

111 102.8 82.7 124.1

192 17.6 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.163 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085542.D

Acq: 28 Jan 2025 16:37

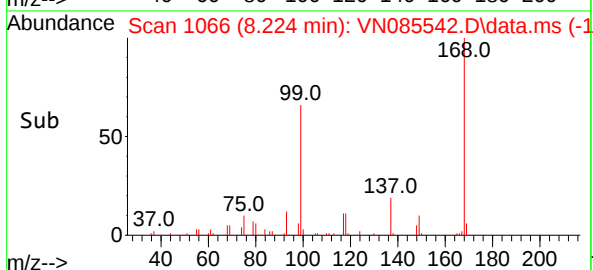
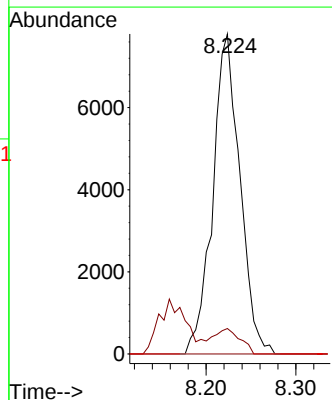
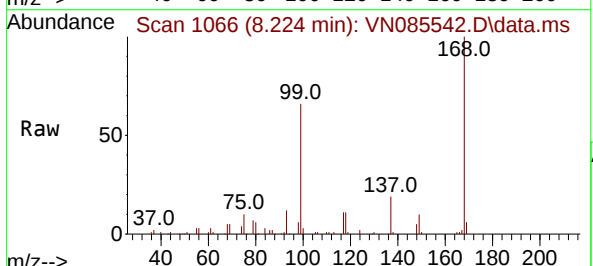
Tgt Ion: 75 Resp: 16369

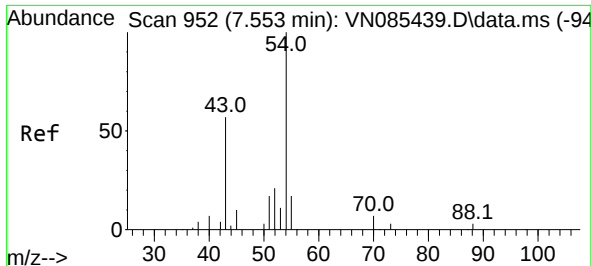
Ion Ratio Lower Upper

75 100

110 7.6 16.5 49.5#

77 0.0 24.4 36.6#

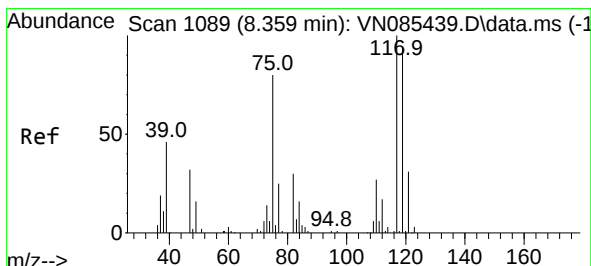
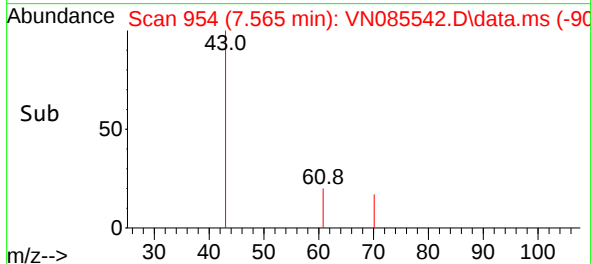
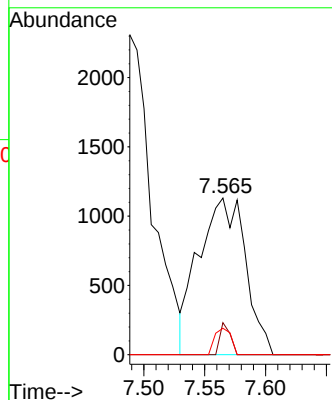
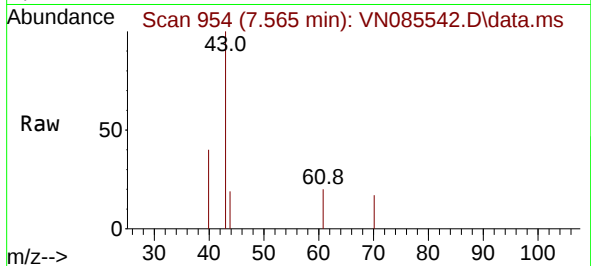




#37
Ethyl Acetate
Concen: 0.945 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

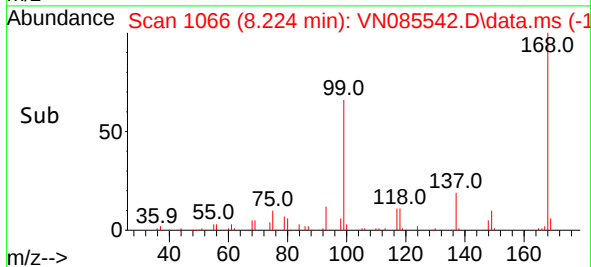
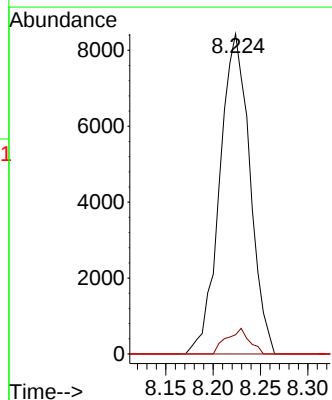
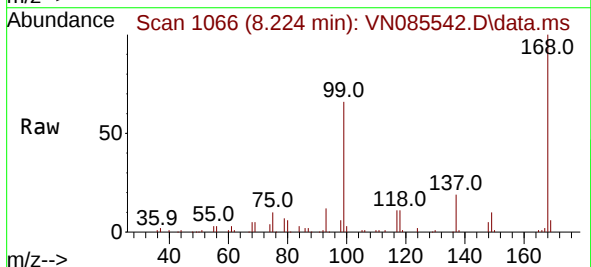
Instrument :
MSVOA_N
ClientSampleId :

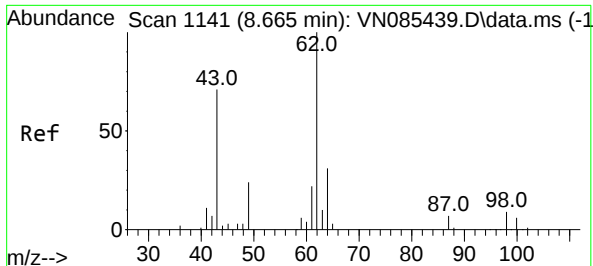
Tgt Ion: 43 Resp: 3025
Ion Ratio Lower Upper
43 100
61 4.5 10.9 16.3#
70 5.9 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 5.141 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

Tgt Ion: 117 Resp: 18662
Ion Ratio Lower Upper
117 100
119 6.0 75.4 113.2#
121 0.0 24.6 37.0#

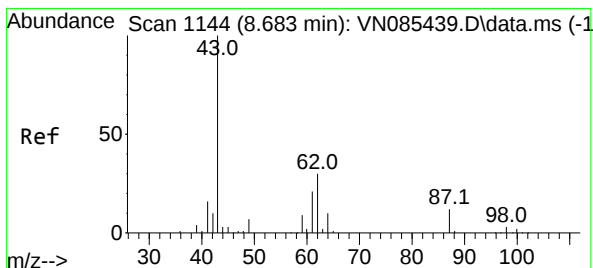
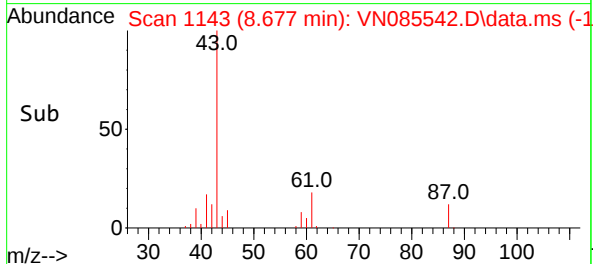
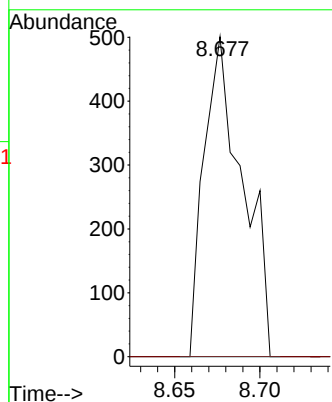
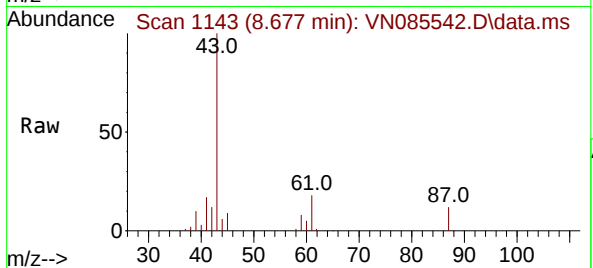




#42
1,2-Dichloroethane
Concen: 0.220 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.012 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

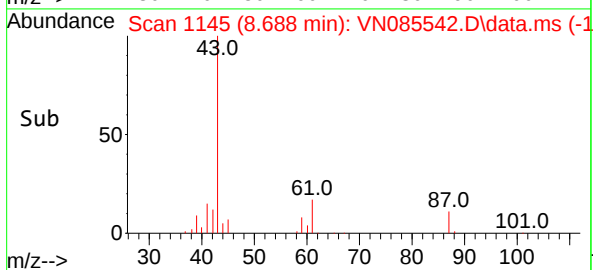
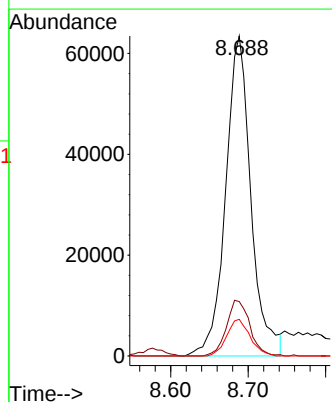
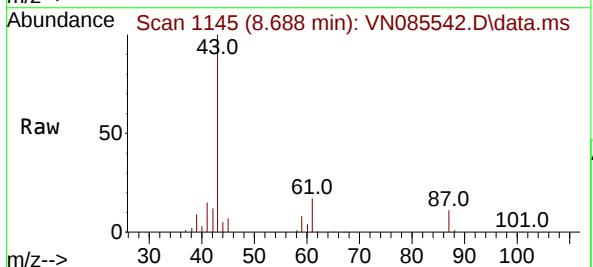
Instrument :
MSVOA_N
ClientSampleId :

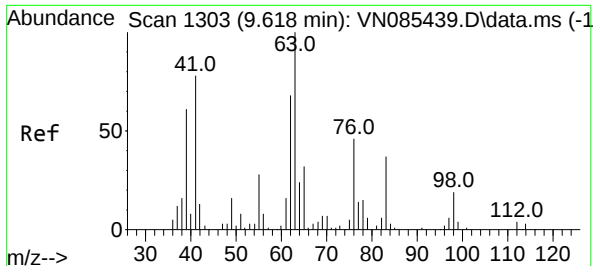
Tgt Ion: 62 Resp: 791
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0



#43
Isopropyl Acetate
Concen: 28.134 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

Tgt Ion: 43 Resp: 144272
Ion Ratio Lower Upper
43 100
61 16.1 20.7 31.1#
87 10.5 9.8 14.8





#45

1,2-Dichloropropane

Concen: 0.681 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN085542.D

Acq: 28 Jan 2025 16:37

Instrument :

MSVOA_N

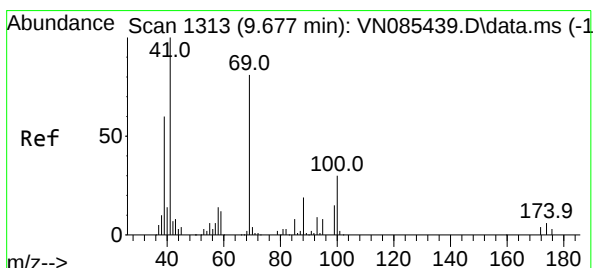
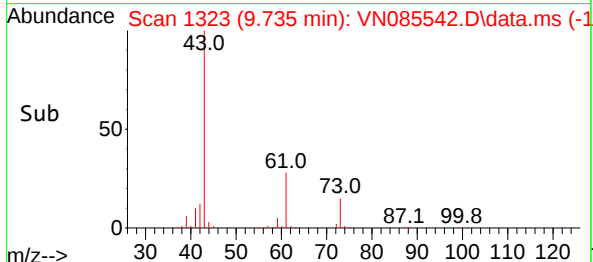
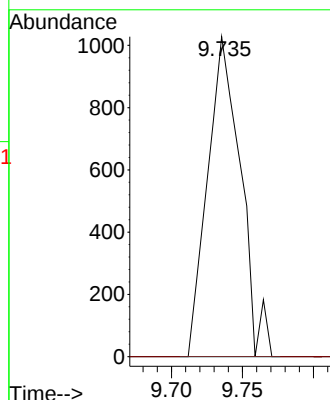
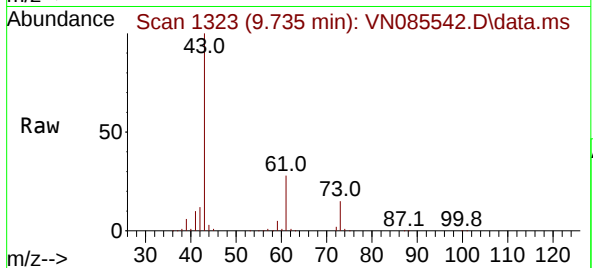
ClientSampleId :

Tgt Ion: 63 Resp: 1656

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 56.104 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.064 min

Lab File: VN085542.D

Acq: 28 Jan 2025 16:37

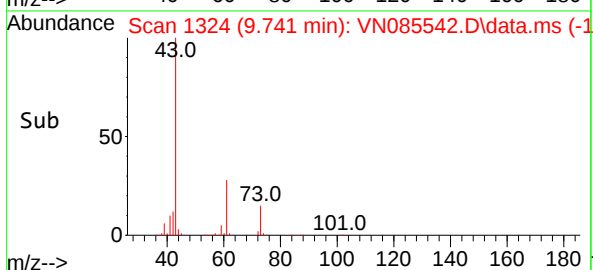
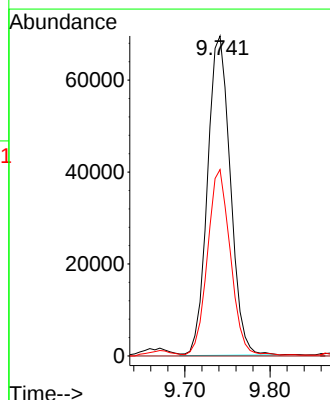
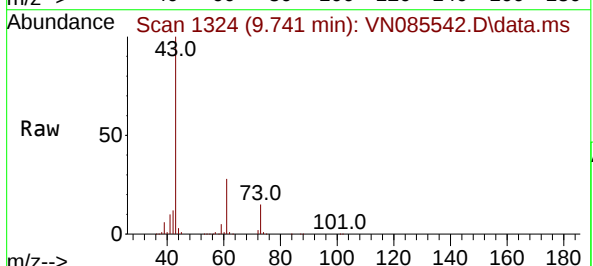
Tgt Ion: 41 Resp: 129471

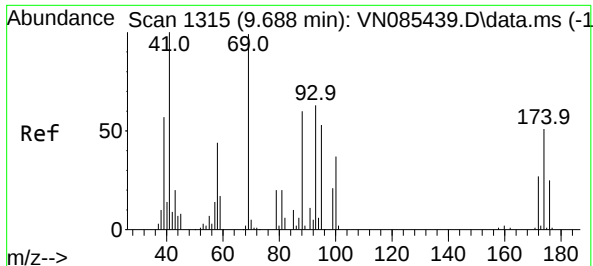
Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

39 58.5 49.0 73.6





#49

1,4-Dioxane

Concen: 3.757 ug/l

RT: 9.741 min Scan# 1315

Delta R.T. 0.053 min

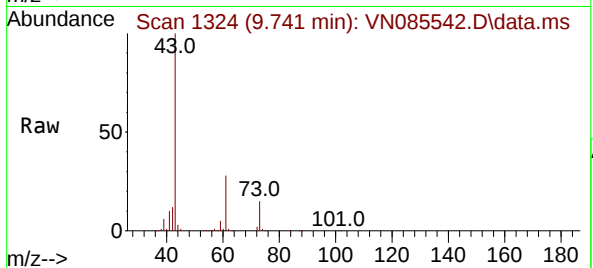
Lab File: VN085542.D

Acq: 28 Jan 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :



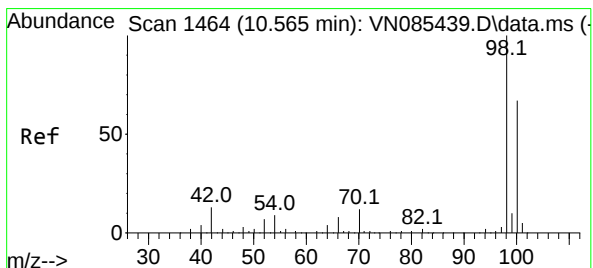
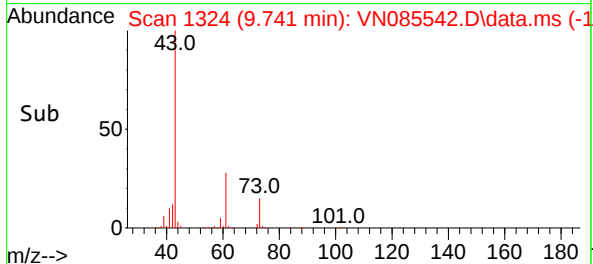
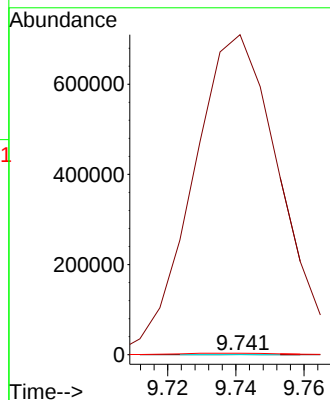
Tgt Ion: 88 Resp: 146

Ion Ratio Lower Upper

88 100

43 873539.7 26.6 39.8#

58 4752.1 59.5 89.3#



#50

Toluene-d8

Concen: 52.965 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085542.D

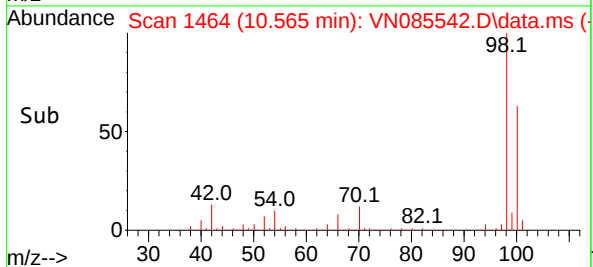
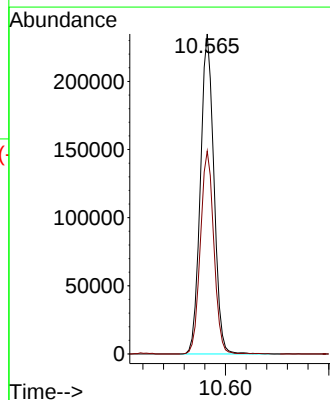
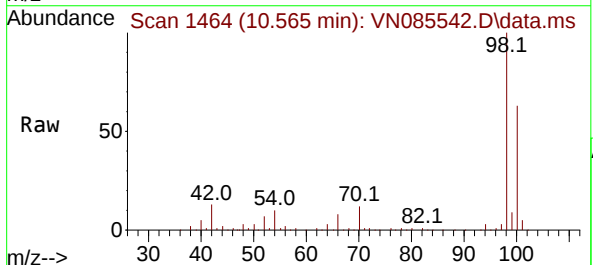
Acq: 28 Jan 2025 16:37

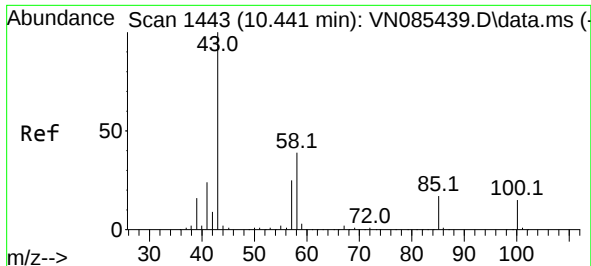
Tgt Ion: 98 Resp: 425129

Ion Ratio Lower Upper

98 100

100 63.2 52.2 78.4

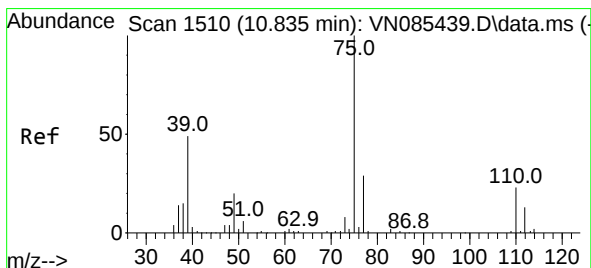
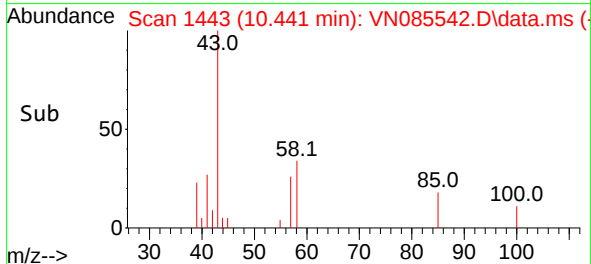
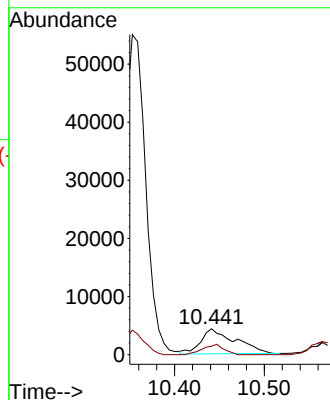
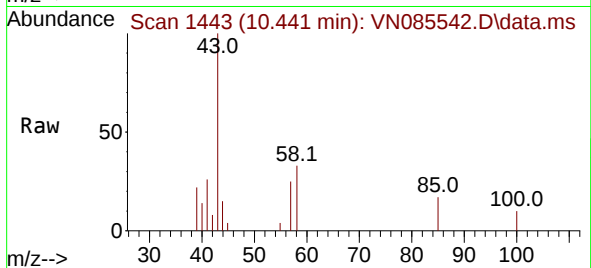




#51
4-Methyl-2-Pentanone
Concen: 3.869 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

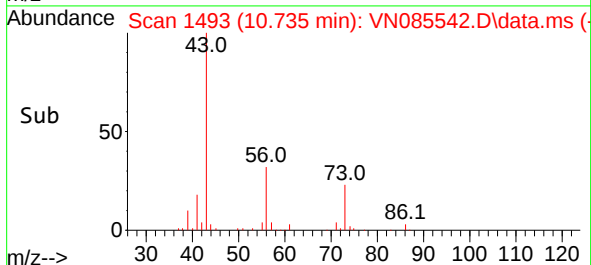
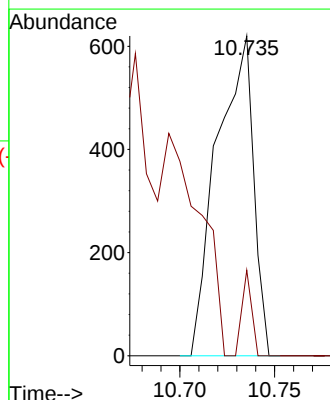
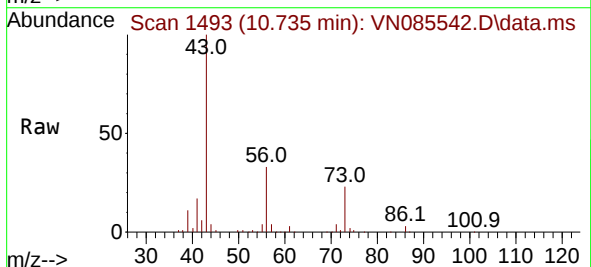
Instrument :
MSVOA_N
ClientSampleId :

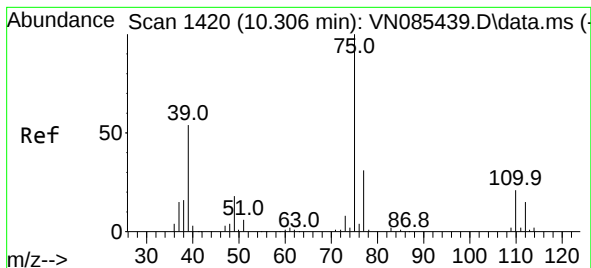
Tgt Ion: 43 Resp: 11514
Ion Ratio Lower Upper
43 100
58 25.1 30.5 45.7#



#53
t-1,3-Dichloropropene
Concen: 0.245 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.100 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

Tgt Ion: 75 Resp: 828
Ion Ratio Lower Upper
75 100
77 26.8 23.5 35.3

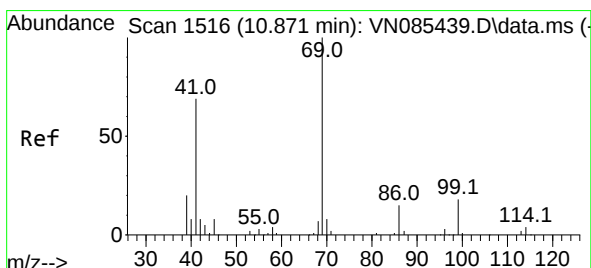
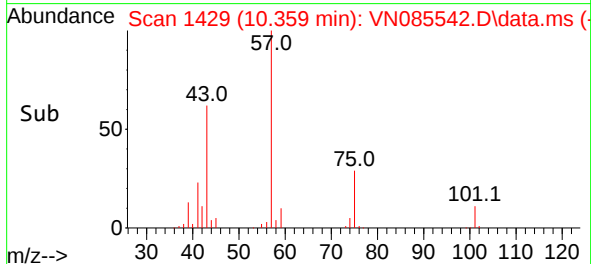
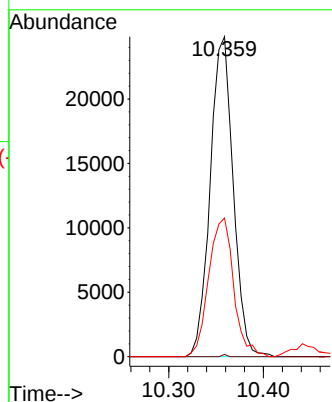
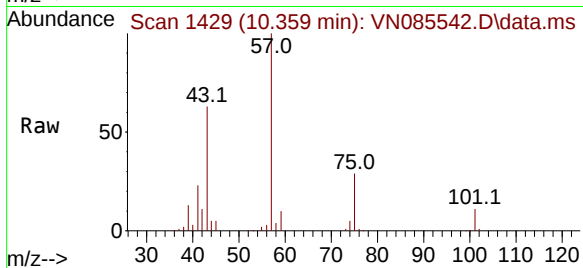




#54
 cis-1,3-Dichloropropene
 Concen: 11.600 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.053 min
 Lab File: VN085542.D
 Acq: 28 Jan 2025 16:37

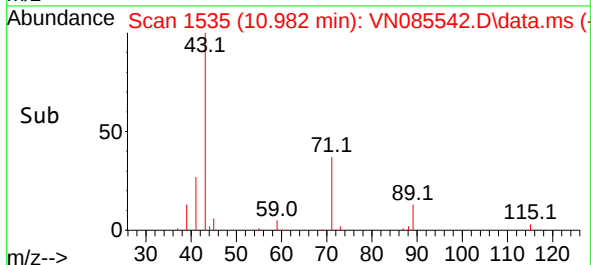
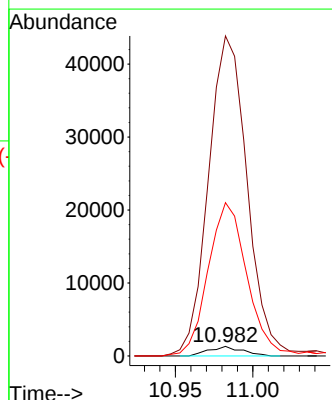
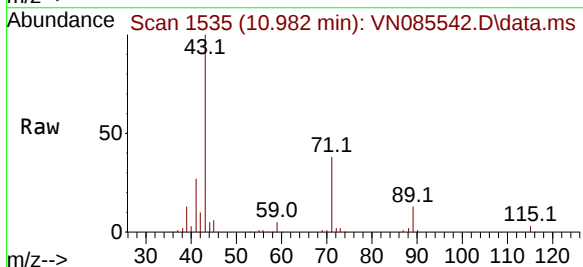
Instrument :
 MSVOA_N
 ClientSampleId :

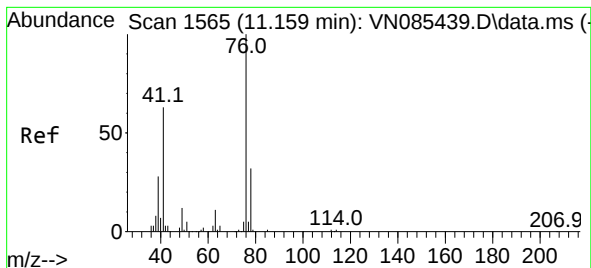
Tgt Ion: 75 Resp: 41886
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.0 37.4#
 39 43.3 43.1 64.7



#56
 Ethyl methacrylate
 Concen: 2.442 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.111 min
 Lab File: VN085542.D
 Acq: 28 Jan 2025 16:37

Tgt Ion: 69 Resp: 1954
 Ion Ratio Lower Upper
 69 100
 41 3905.7 54.6 82.0#
 39 1887.3 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.740 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085542.D

Acq: 28 Jan 2025 16:37

Instrument :

MSVOA_N

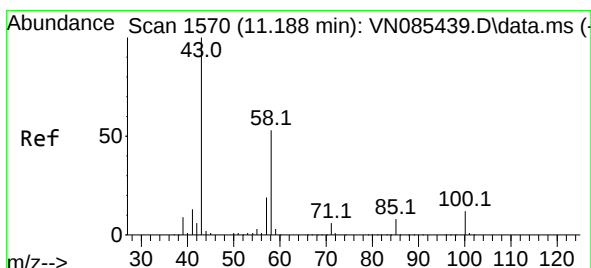
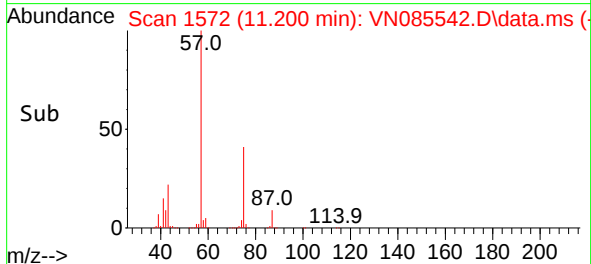
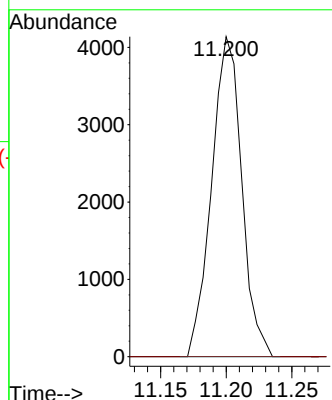
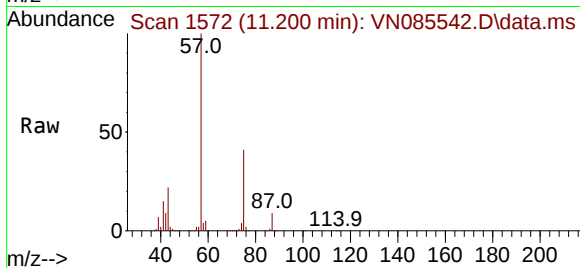
ClientSampleId :

Tgt Ion: 76 Resp: 6611

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 37.174 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085542.D

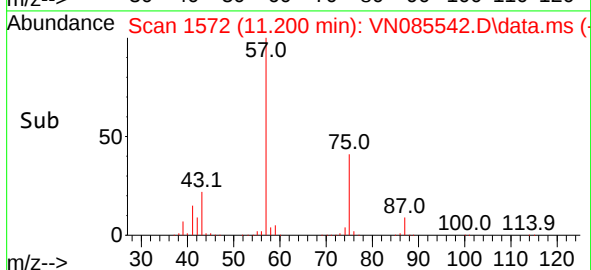
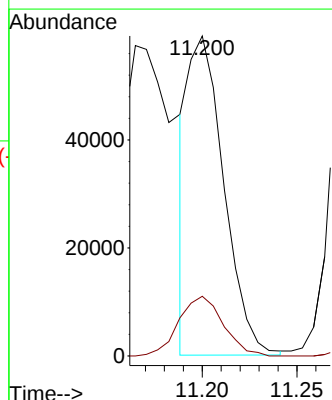
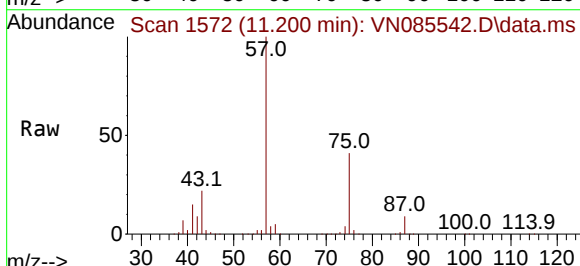
Acq: 28 Jan 2025 16:37

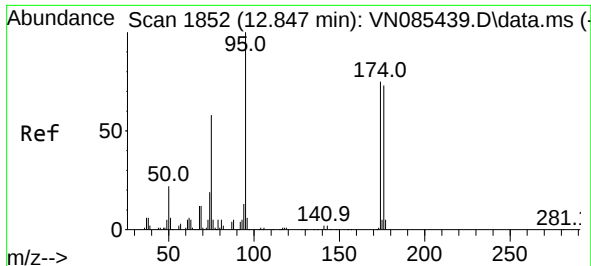
Tgt Ion: 43 Resp: 77833

Ion Ratio Lower Upper

43 100

58 23.2 26.2 78.6#

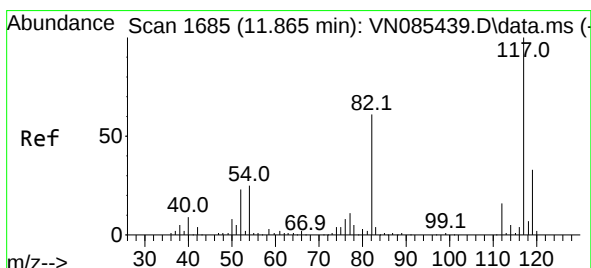
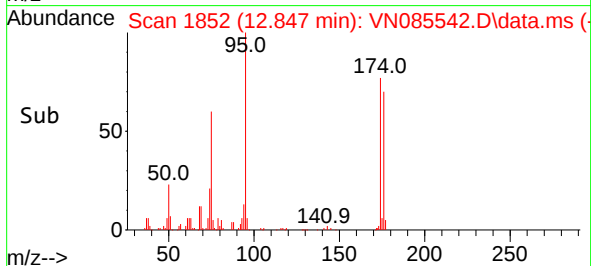
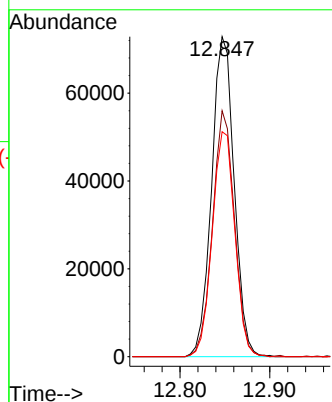
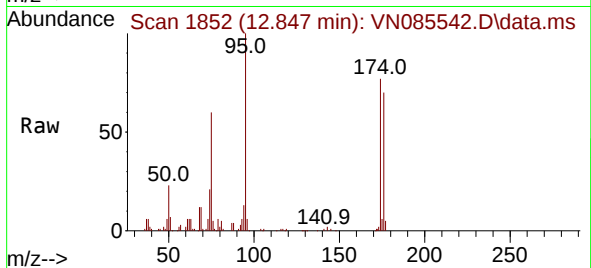




#62
4-Bromofluorobenzene
Concen: 46.272 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

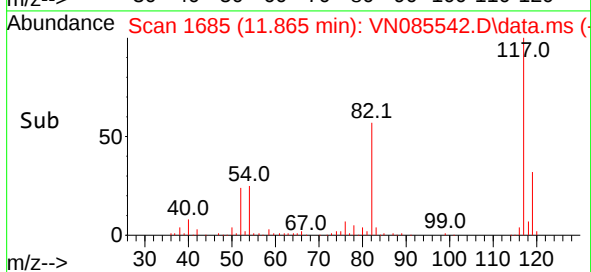
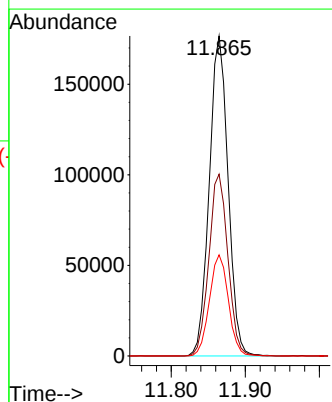
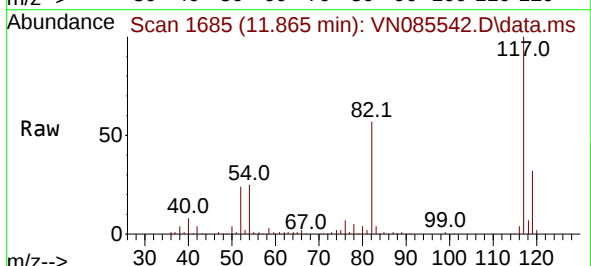
Instrument :
MSVOA_N
ClientSampleId :

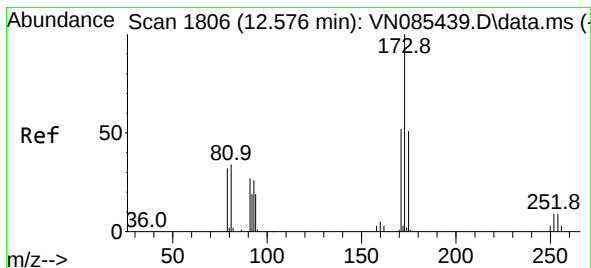
Tgt Ion: 95 Resp: 127048
Ion Ratio Lower Upper
95 100
174 74.7 0.0 145.0
176 70.7 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

Tgt Ion: 117 Resp: 311195
Ion Ratio Lower Upper
117 100
82 56.8 48.6 72.8
119 31.6 26.6 39.8





#71

Bromoform

Concen: 0.675 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

Lab File: VN085542.D

Acq: 28 Jan 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

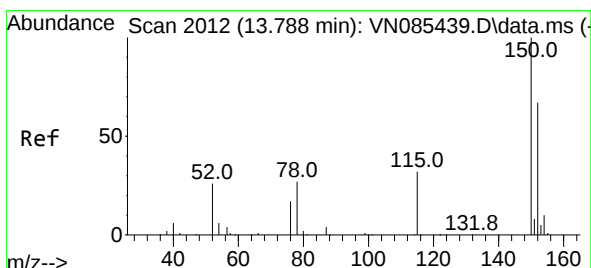
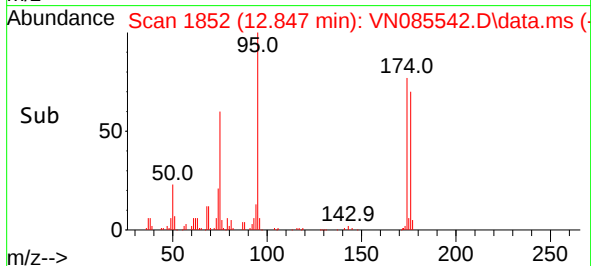
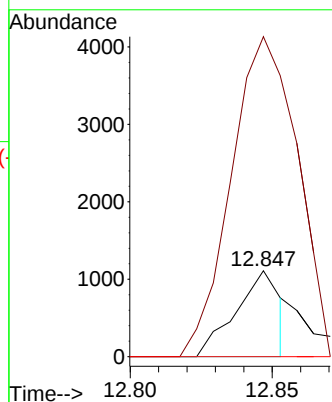
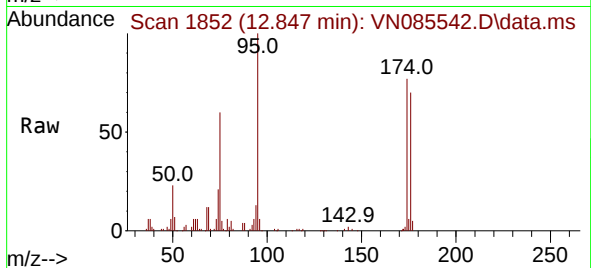
Tgt Ion:173 Resp: 1209

Ion Ratio Lower Upper

173 100

175 435.5 24.4 73.2#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN085542.D

Acq: 28 Jan 2025 16:37

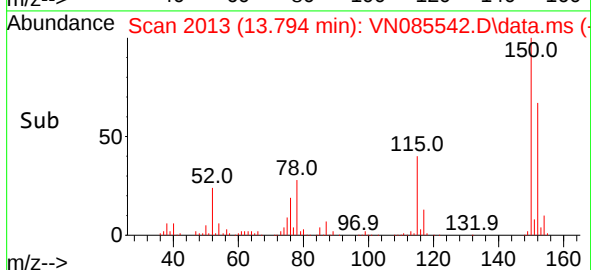
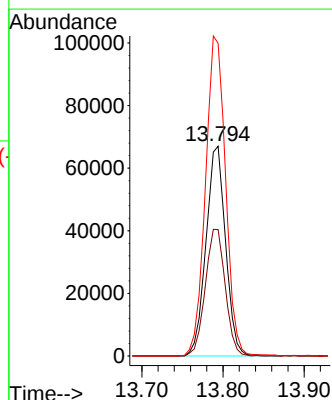
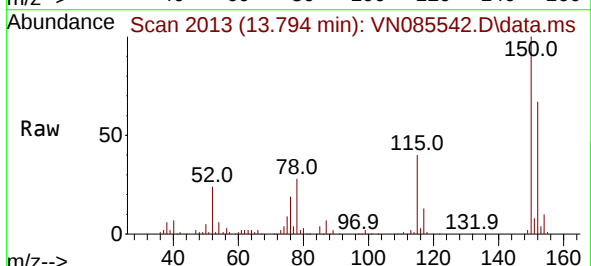
Tgt Ion:152 Resp: 112270

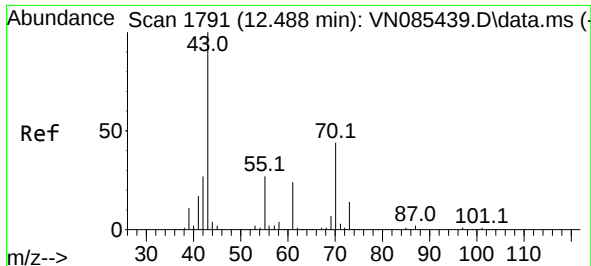
Ion Ratio Lower Upper

152 100

115 61.5 31.1 93.3

150 156.3 0.0 343.6

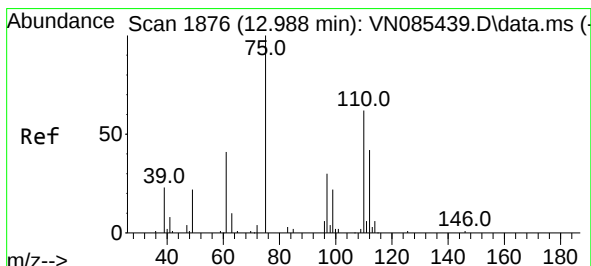
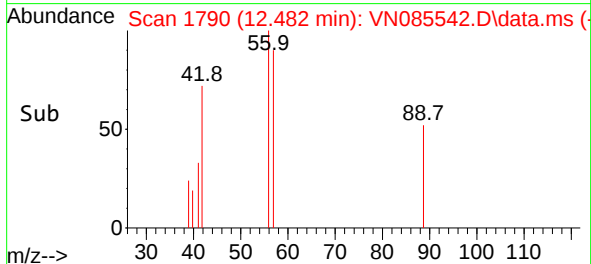
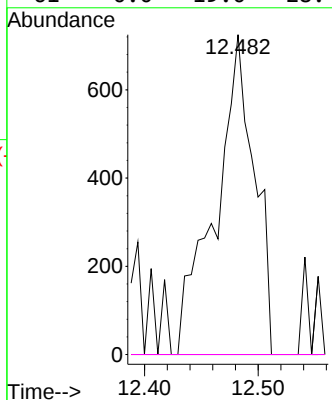
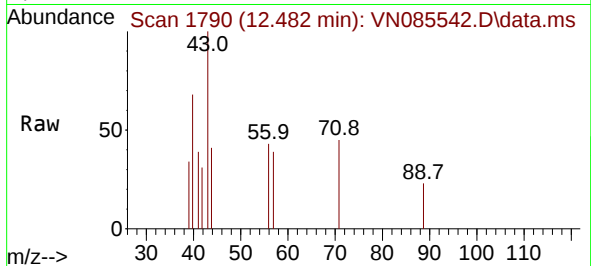




#74
N-amy1 acetate
Concen: 0.509 ug/l
RT: 12.482 min Scan# 1734
Delta R.T. -0.006 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

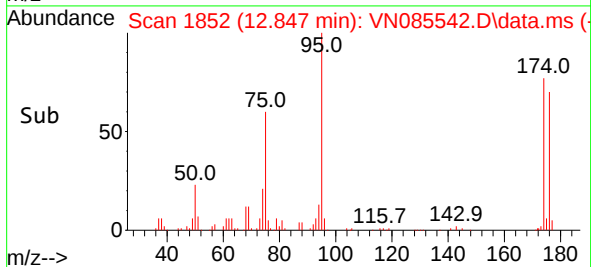
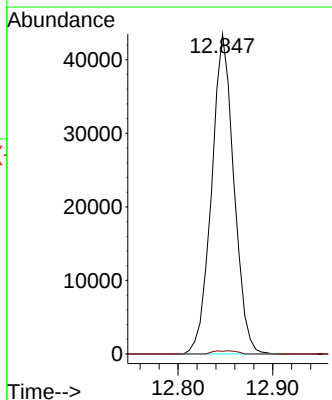
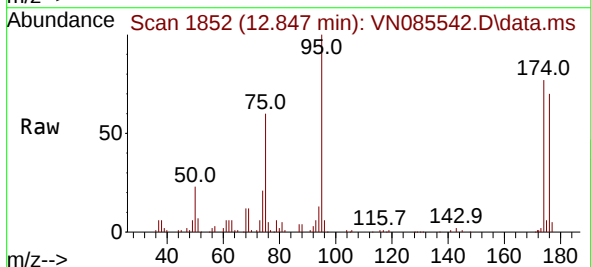
Instrument :
MSVOA_N
ClientSampleId :

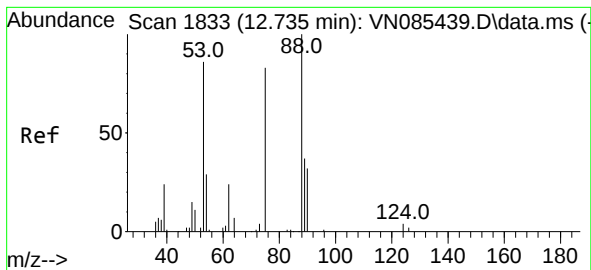
Tgt Ion: 43 Resp: 1734
Ion Ratio Lower Upper
43 100
70 0.0 34.0 51.0#
55 0.0 21.4 32.2#
61 0.0 19.0 28.4#



#76
1,2,3-Trichloropropane
Concen: 31.197 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085542.D
Acq: 28 Jan 2025 16:37

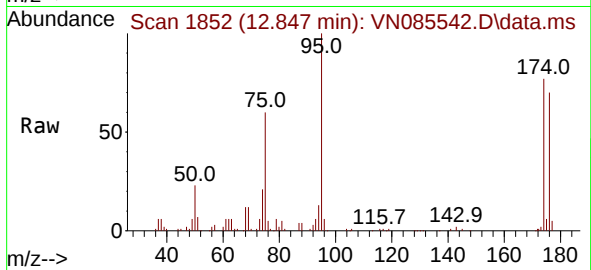
Tgt Ion: 75 Resp: 71188
Ion Ratio Lower Upper
75 100
77 1.0 109.7 329.2#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 84.405 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN085542.D
 Acq: 28 Jan 2025 16:37

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 71188
 Ion Ratio Lower Upper
 75 100
 53 0.0 95.6 143.4#
 89 0.0 37.0 55.6#

