

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020725\
 Data File : VN085699.D
 Acq On : 07 Feb 2025 16:17
 Operator : JC\MD
 Sample : PB166592ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 07 22:32:47 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

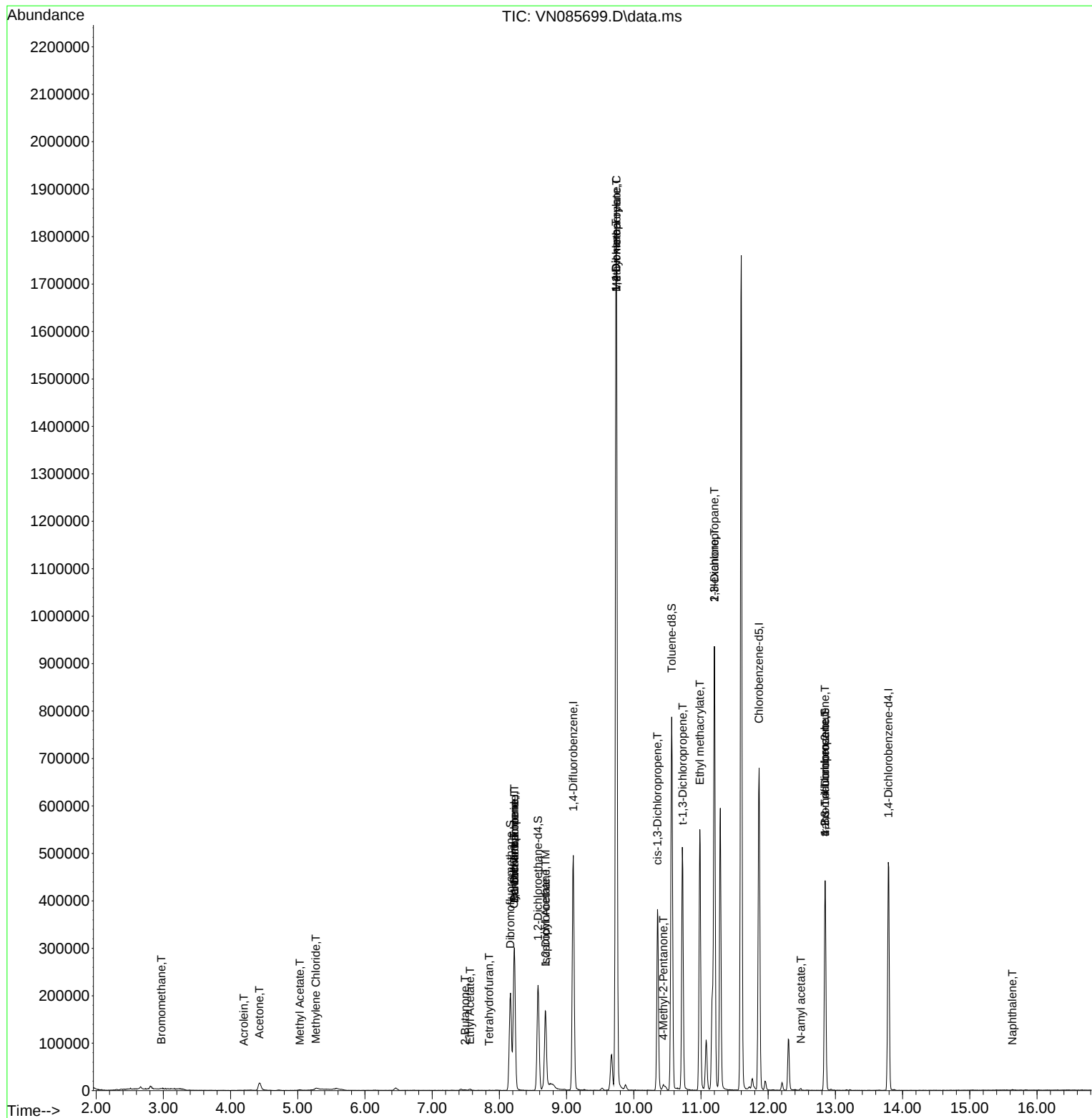
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	208055	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	412934	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	386677	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132135	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	180882	53.859	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.720%	
35) Dibromofluoromethane	8.165	113	146185	51.029	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.060%	
50) Toluene-d8	10.565	98	544176	53.464	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 106.920%	
62) 4-Bromofluorobenzene	12.847	95	149806	43.026	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 86.060%	
Target Compounds						Qvalue
5) Bromomethane	2.971	94	703	0.380	ug/l #	19
13) Acrolein	4.200	56	116	0.221	ug/l #	14
16) Acetone	4.430	43	29844	27.502	ug/l	99
18) Methyl Acetate	5.030	43	2979	0.903	ug/l #	73
20) Methylene Chloride	5.271	84	2763	1.029	ug/l #	81
25) 2-Butanone	7.488	43	2578	1.614	ug/l #	50
29) Tetrahydrofuran	7.847	42	347	0.343	ug/l #	34
31) Cyclohexane	8.218	56	5278	1.238	ug/l #	8
36) 1,1-Dichloropropene	8.224	75	18236	4.536	ug/l #	49
37) Ethyl Acetate	7.565	43	4561	1.124	ug/l #	90
38) Carbon Tetrachloride	8.224	117	22591	4.908	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	1153	0.253	ug/l #	76
43) Isopropyl Acetate	8.688	43	187129	28.777	ug/l #	90
45) 1,2-Dichloropropane	9.741	63	2750	0.891	ug/l #	43
48) Methyl methacrylate	9.741	41	171832	58.719	ug/l #	45
49) 1,4-Dioxane	9.735	88	148	3.003	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	13310	3.527	ug/l #	73
53) t-1,3-Dichloropropene	10.729	75	1289	0.301	ug/l #	45
54) cis-1,3-Dichloropropene	10.353	75	65749	14.359	ug/l #	67
56) Ethyl methacrylate	10.982	69	3166	2.583	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	9929	2.061	ug/l #	43
59) 2-Hexanone	11.200	43	105606	39.775	ug/l #	59
74) N-amyl acetate	12.488	43	1659	0.414	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	78832	29.353	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	78832	79.416	ug/l #	3
95) Naphthalene	15.635	128	1521	0.256	ug/l #	79

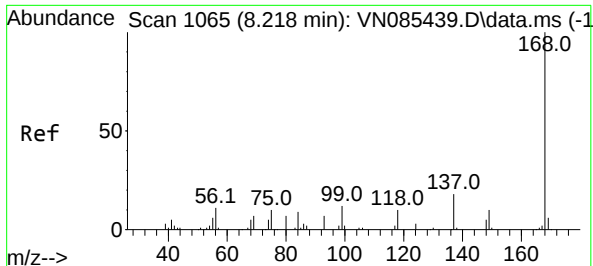
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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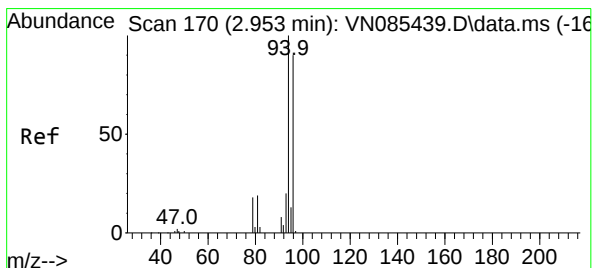
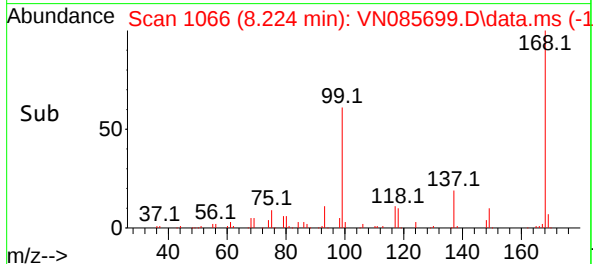
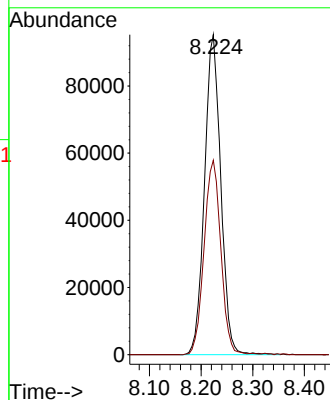
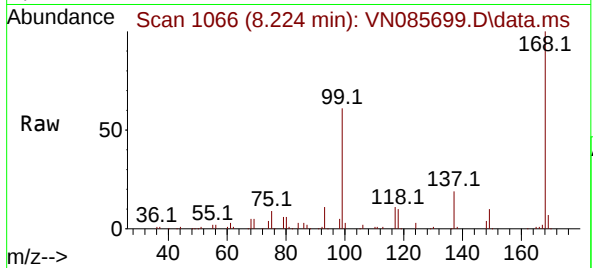




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

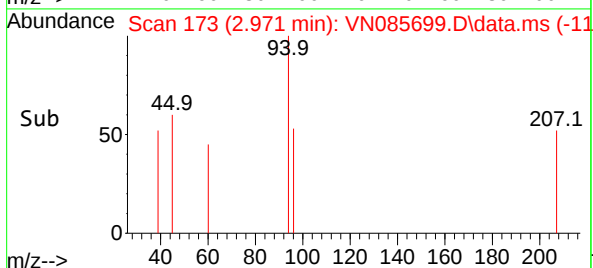
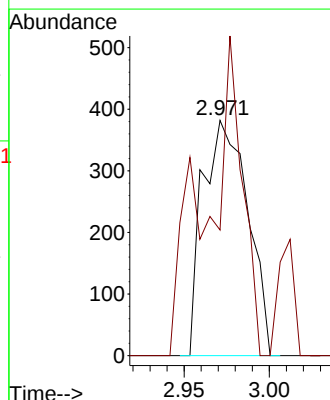
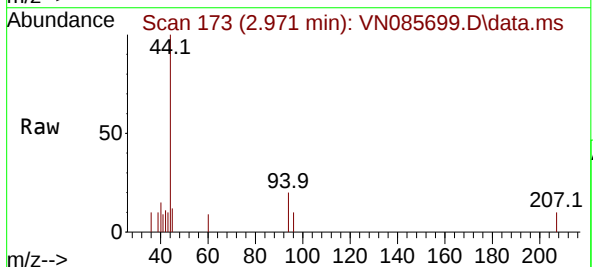
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MSVOA_N
ClientSampleId :

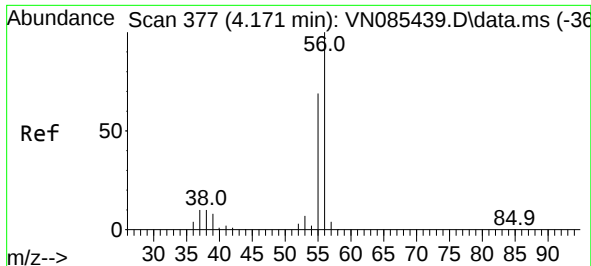
Tgt Ion:168 Resp: 208055
Ion Ratio Lower Upper
168 100
99 60.8 53.6 80.4



#5
Bromomethane
Concen: 0.380 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.018 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

Tgt Ion: 94 Resp: 703
Ion Ratio Lower Upper
94 100
96 13.6 71.8 107.6#

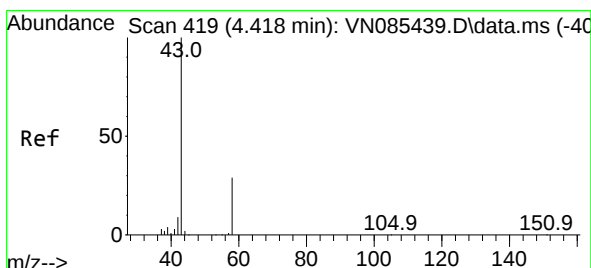
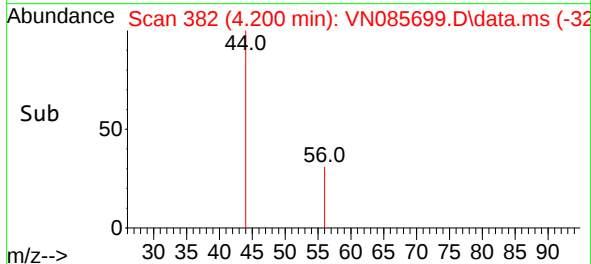
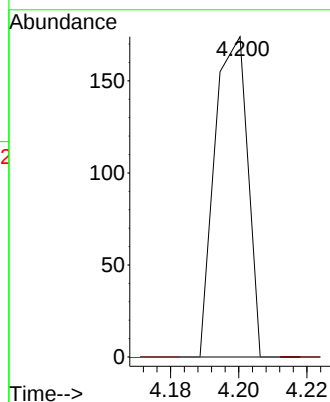
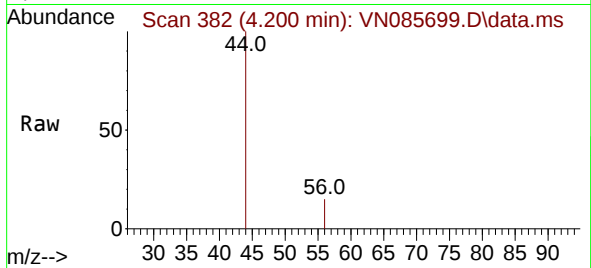




#13
Acrolein
Concen: 0.221 ug/l
RT: 4.200 min Scan# 311
Delta R.T. 0.029 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

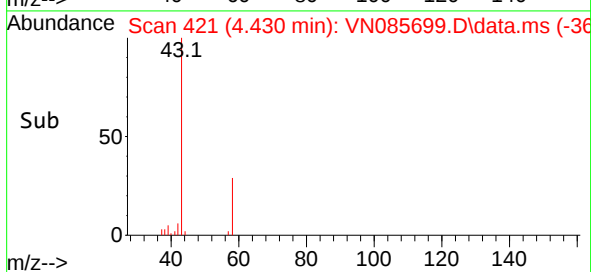
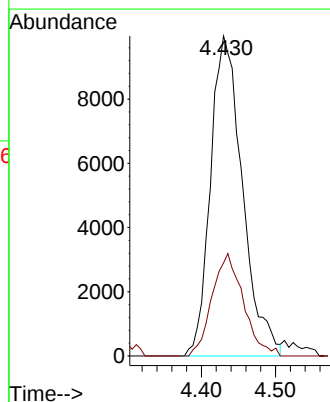
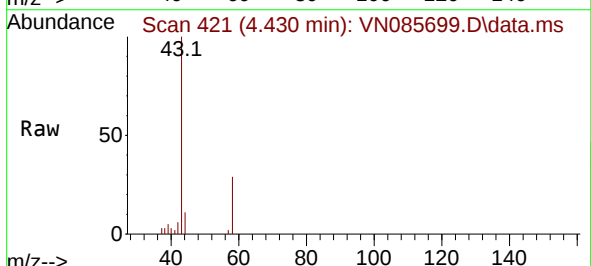
Instrument :
MSVOA_N
ClientSampleId :

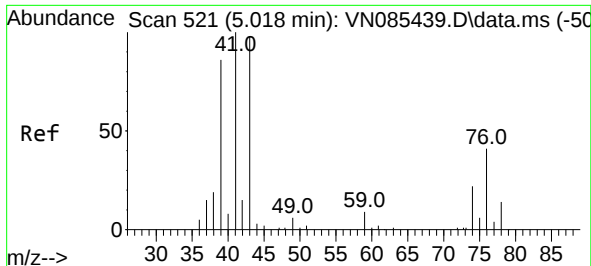
Tgt Ion: 56 Resp: 116
Ion Ratio Lower Upper
56 100
55 0.0 56.3 84.5#



#16
Acetone
Concen: 27.502 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

Tgt Ion: 43 Resp: 29844
Ion Ratio Lower Upper
43 100
58 29.1 23.8 35.6

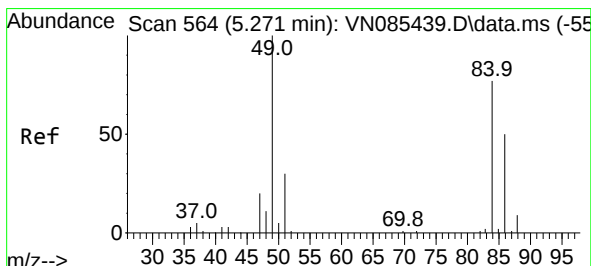
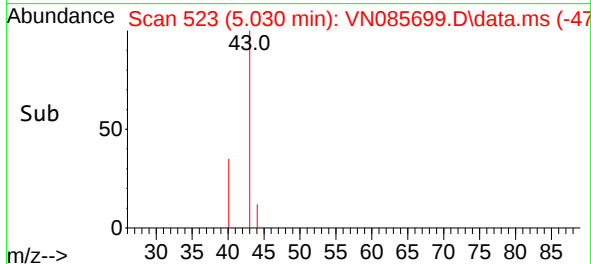
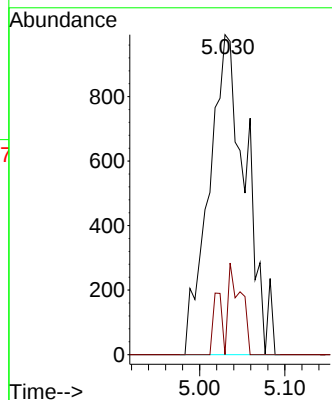
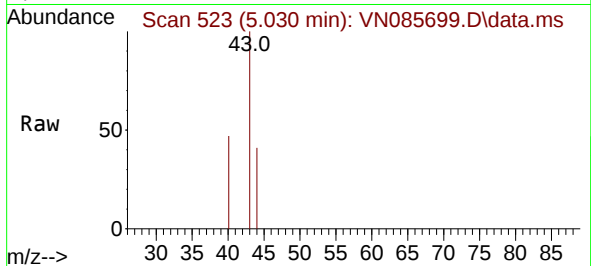




#18
Methyl Acetate
Concen: 0.903 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

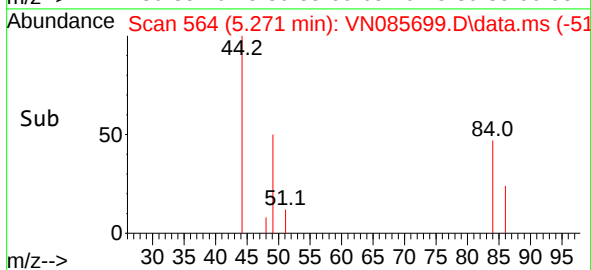
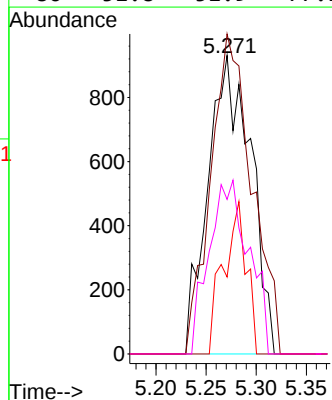
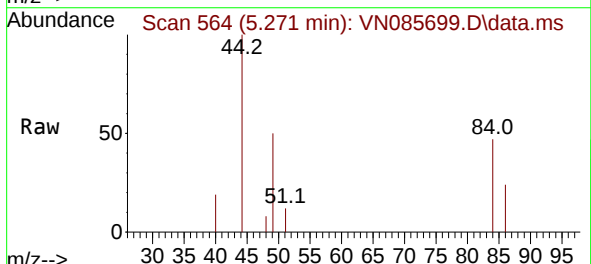
Instrument :
MSVOA_N
ClientSampleId :

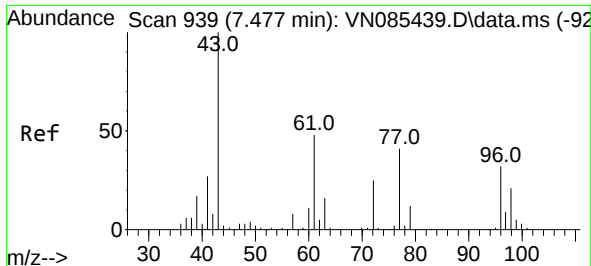
Tgt Ion: 43 Resp: 2979
Ion Ratio Lower Upper
43 100
74 9.9 18.6 28.0#



#20
Methylene Chloride
Concen: 1.029 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

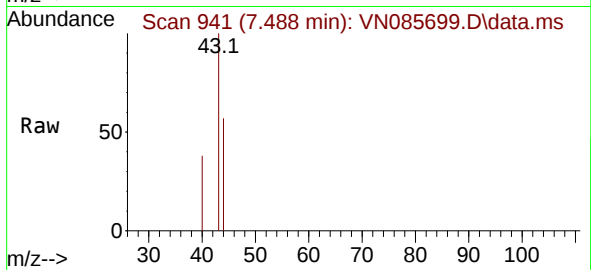
Tgt Ion: 84 Resp: 2763
Ion Ratio Lower Upper
84 100
49 107.2 104.1 156.1
51 25.8 31.0 46.4#
86 51.8 51.9 77.9#



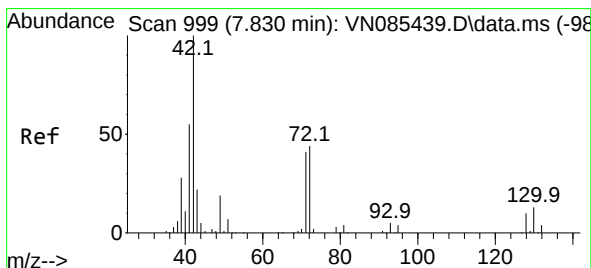
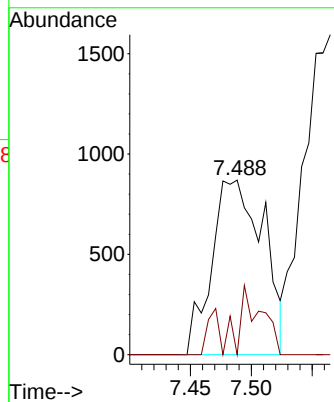
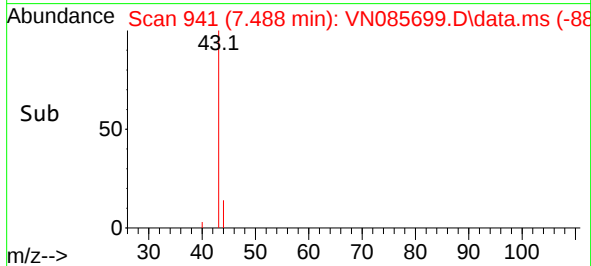


#25
2-Butanone
Concen: 1.614 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

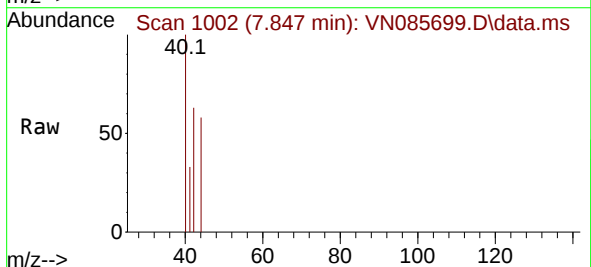
Instrument :
MSVOA_N
ClientSampleId :



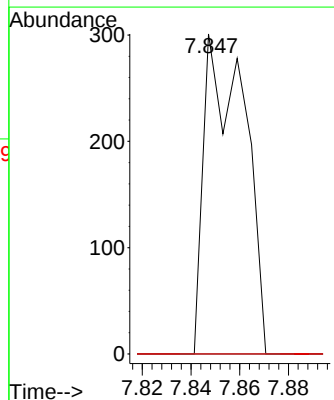
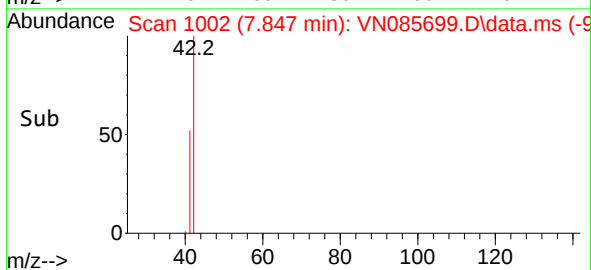
Tgt Ion: 43 Resp: 2578
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.4#

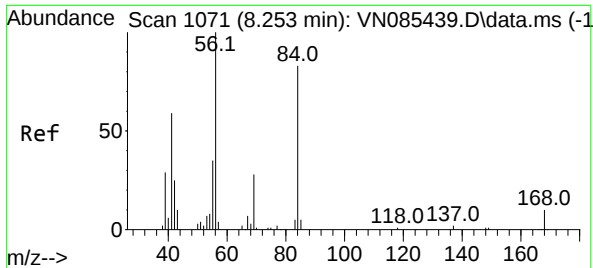


#29
Tetrahydrofuran
Concen: 0.343 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.018 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17



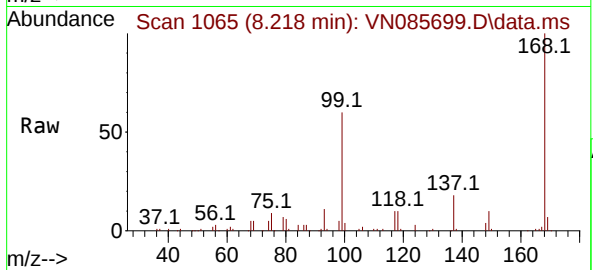
Tgt Ion: 42 Resp: 347
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.5 48.7#



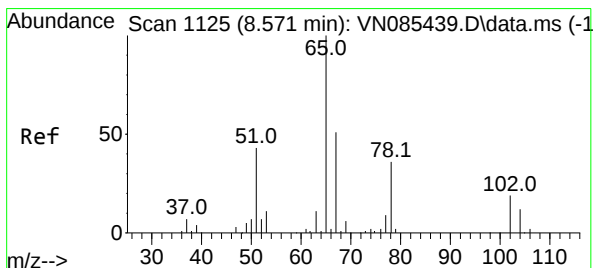
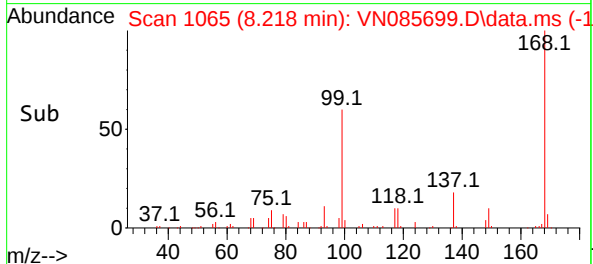
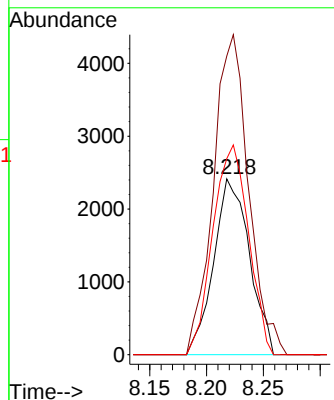


#31
Cyclohexane
Concen: 1.238 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

Instrument :
MSVOA_N
ClientSampleId :

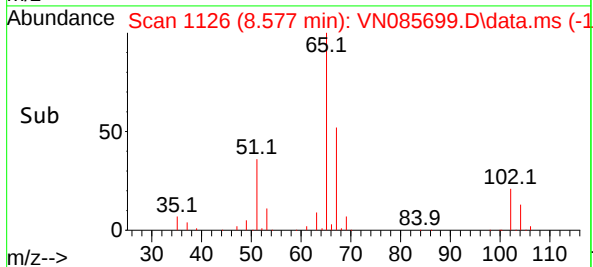
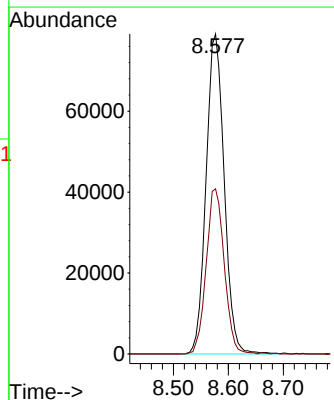
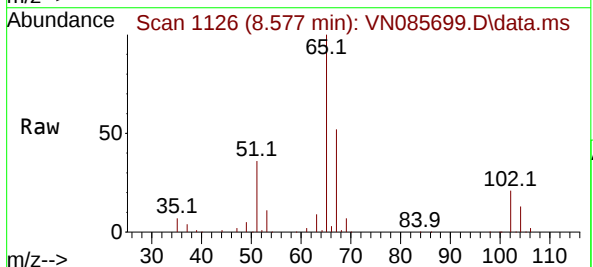


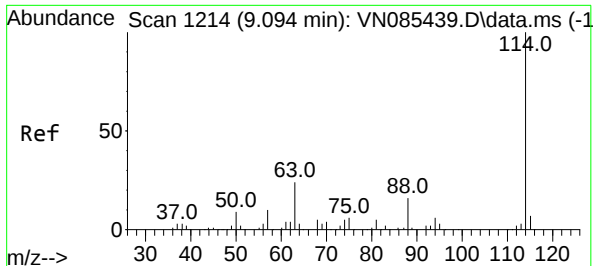
Tgt Ion: 56 Resp: 5278
Ion Ratio Lower Upper
56 100
69 169.7 22.2 33.4#
84 111.5 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 53.859 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

Tgt Ion: 65 Resp: 180882
Ion Ratio Lower Upper
65 100
67 51.5 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085699.D

Acq: 07 Feb 2025 16:17

Instrument :

MSVOA_N

ClientSampleId :

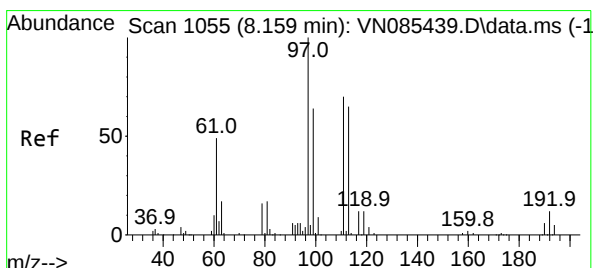
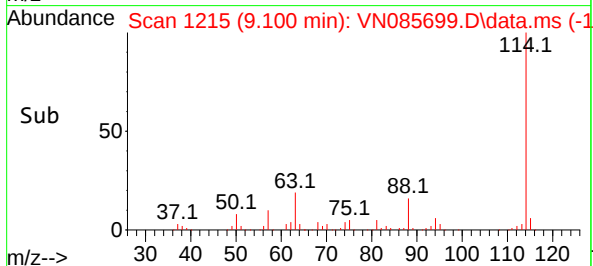
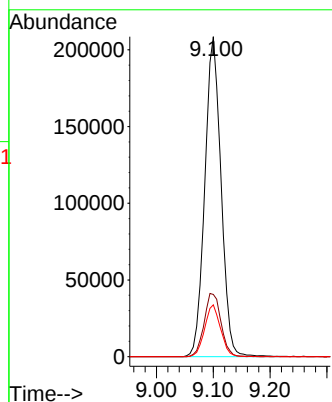
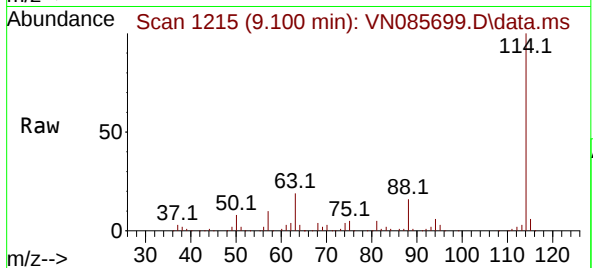
Tgt Ion:114 Resp: 412934

Ion Ratio Lower Upper

114 100

63 19.5 0.0 47.6

88 16.2 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.029 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085699.D

Acq: 07 Feb 2025 16:17

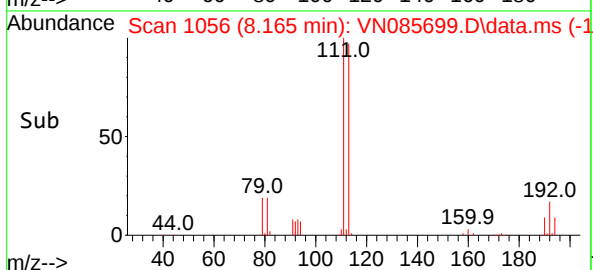
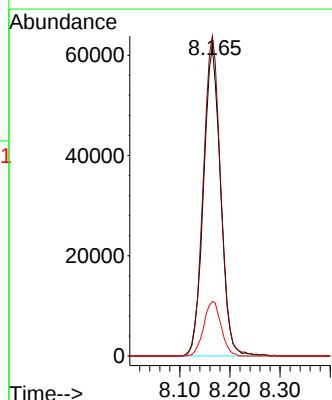
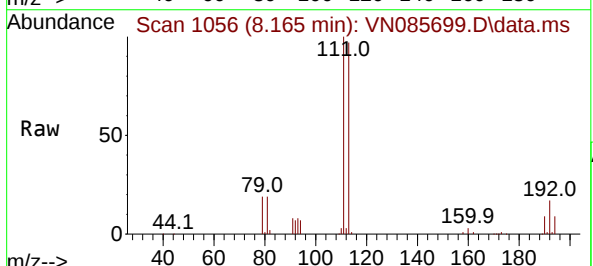
Tgt Ion:113 Resp: 146185

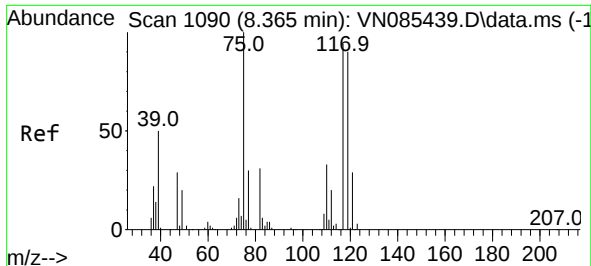
Ion Ratio Lower Upper

113 100

111 104.7 82.7 124.1

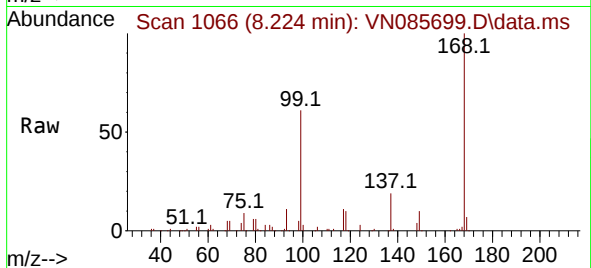
192 17.9 14.3 21.5



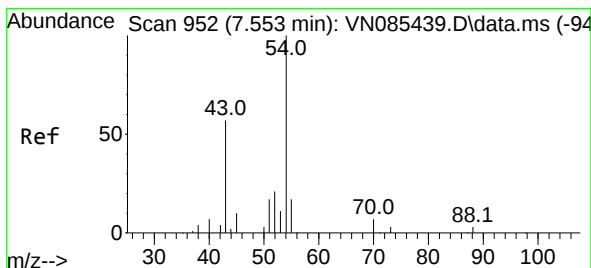
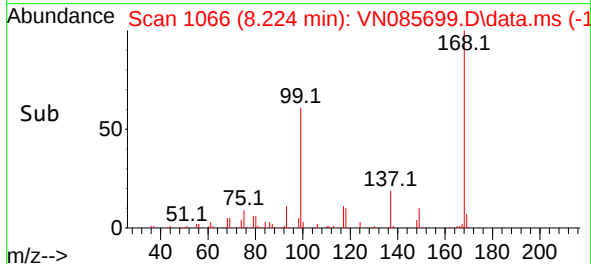
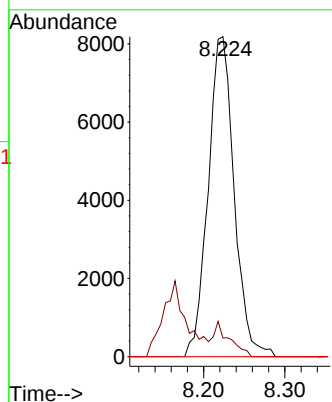


#36
1,1-Dichloropropene
Concen: 4.536 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

Instrument :
MSVOA_N
ClientSampleId :

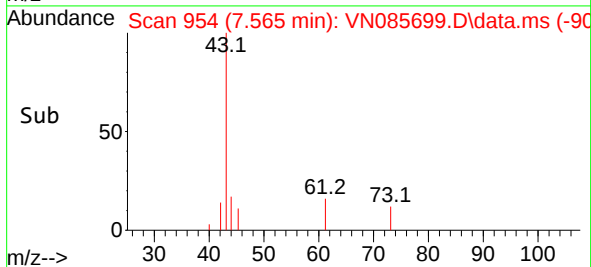
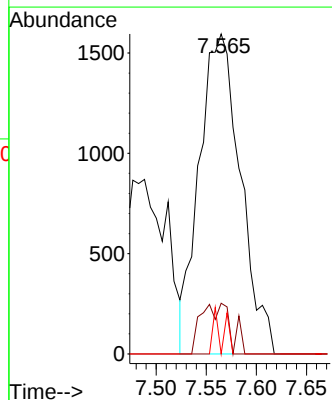
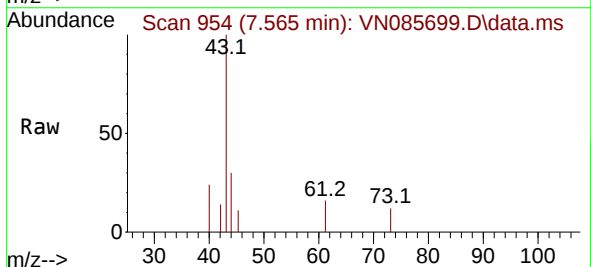


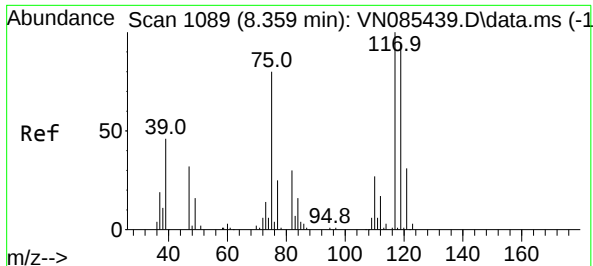
Tgt Ion: 75 Resp: 18236
Ion Ratio Lower Upper
75 100
110 6.6 16.5 49.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 1.124 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.012 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

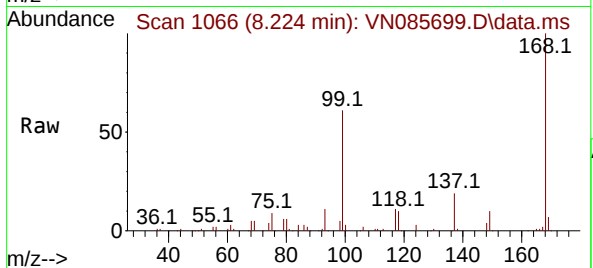
Tgt Ion: 43 Resp: 4561
Ion Ratio Lower Upper
43 100
61 11.5 10.9 16.3
70 3.4 7.5 11.3#



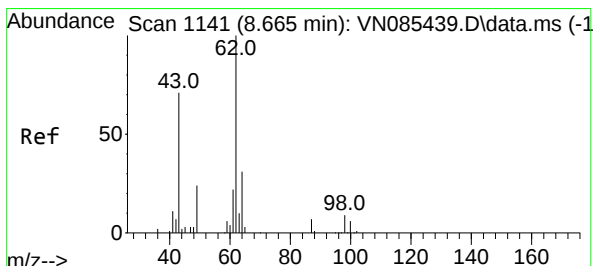
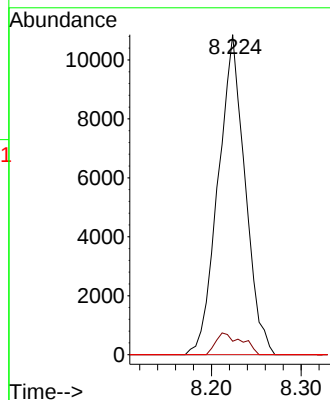
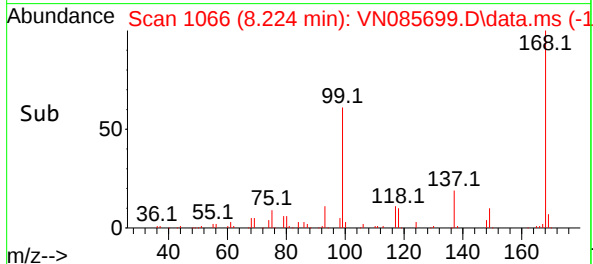


#38
Carbon Tetrachloride
Concen: 4.908 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

Instrument :
MSVOA_N
ClientSampleId :

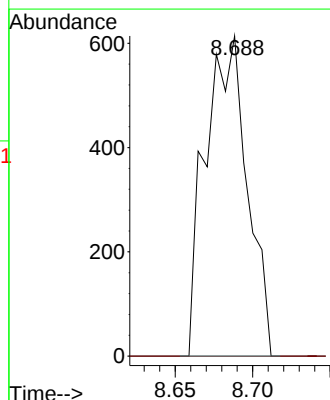
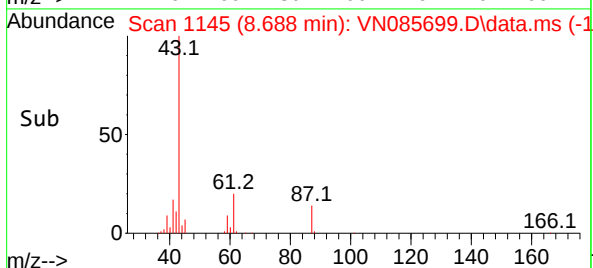
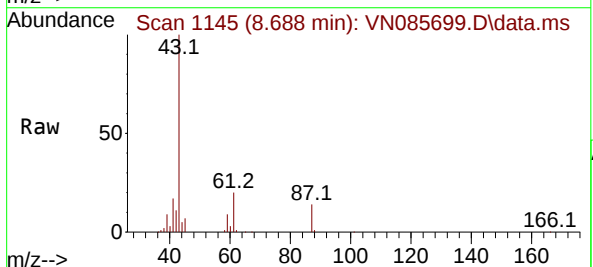


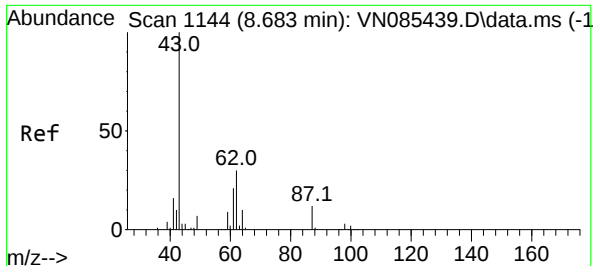
Tgt Ion:117 Resp: 22591
Ion Ratio Lower Upper
117 100
119 4.2 75.4 113.2#
121 0.0 24.6 37.0#



#42
1,2-Dichloroethane
Concen: 0.253 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.023 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

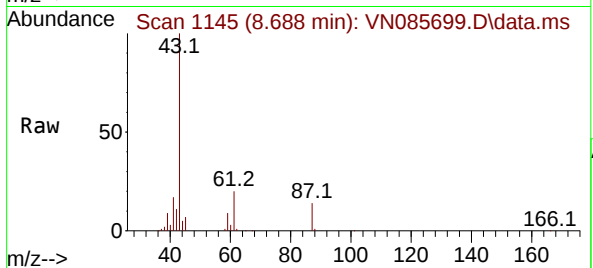
Tgt Ion: 62 Resp: 1153
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0



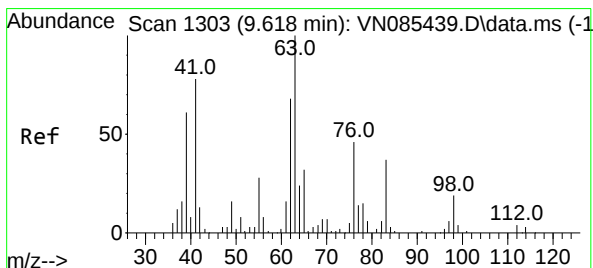
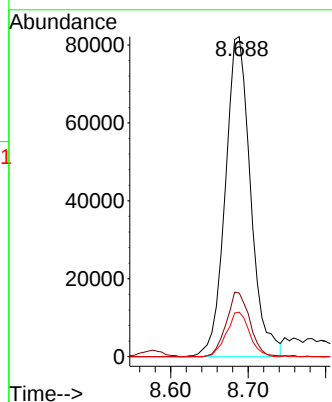
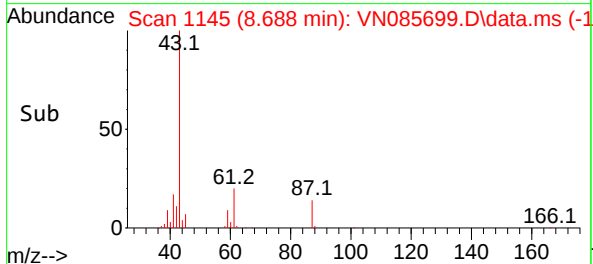


#43
Isopropyl Acetate
Concen: 28.777 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

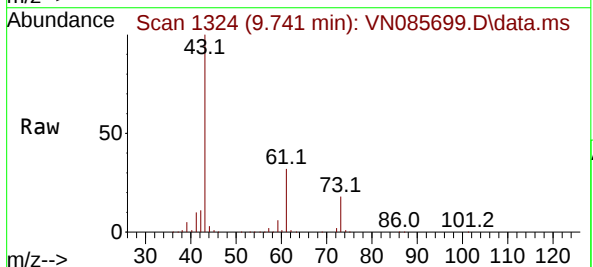
Instrument :
MSVOA_N
ClientSampleId :



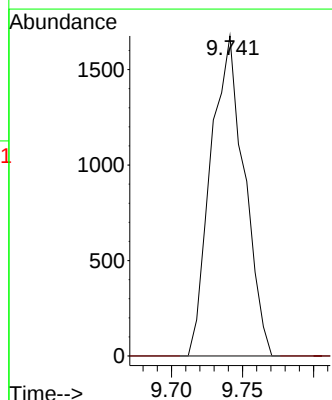
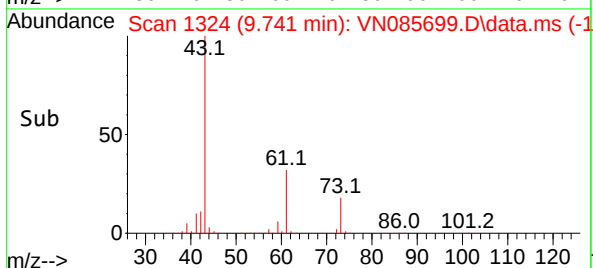
Tgt Ion: 43 Resp: 187129
Ion Ratio Lower Upper
43 100
61 18.6 20.7 31.1#
87 12.6 9.8 14.8

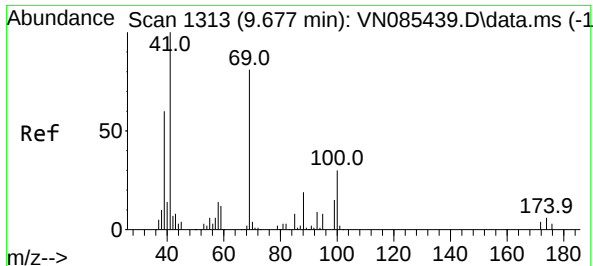


#45
1,2-Dichloropropane
Concen: 0.891 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17



Tgt Ion: 63 Resp: 2750
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#

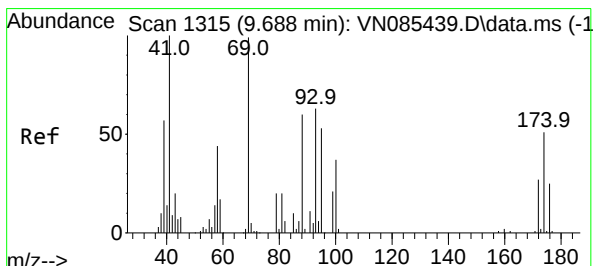
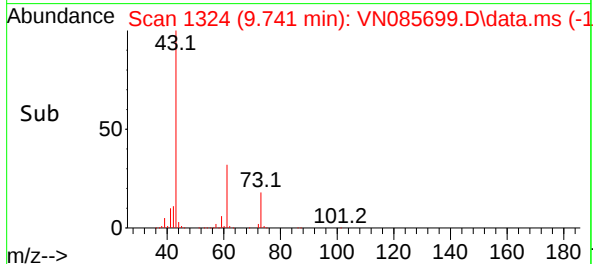
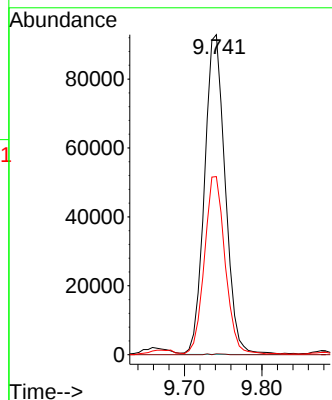
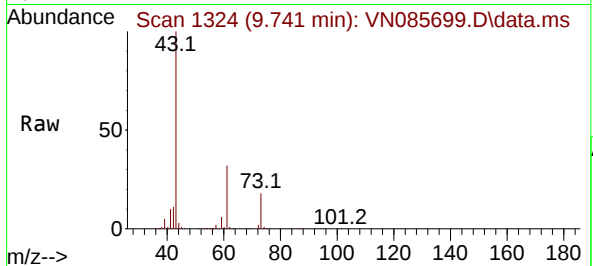




#48
Methyl methacrylate
Concen: 58.719 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.064 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

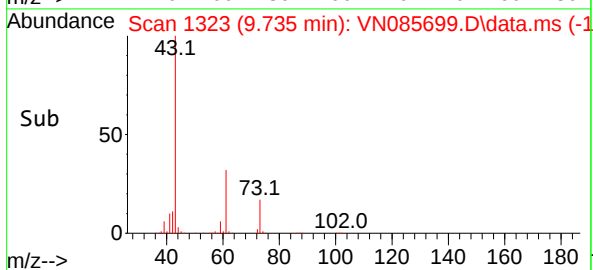
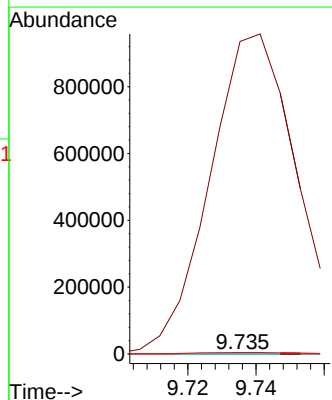
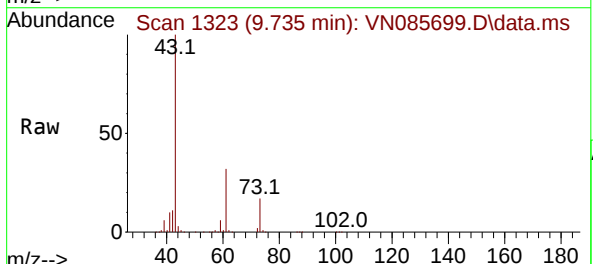
Instrument :
MSVOA_N
ClientSampleId :

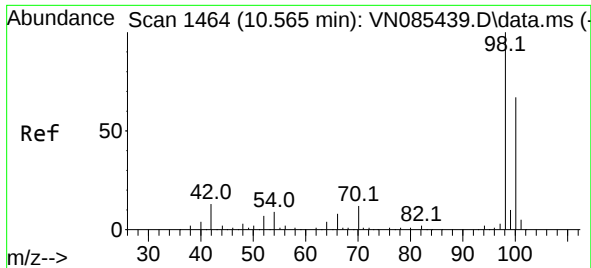
Tgt Ion: 41 Resp: 171832
Ion Ratio Lower Upper
41 100
69 0.2 64.7 97.1#
39 55.5 49.0 73.6



#49
1,4-Dioxane
Concen: 3.003 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.047 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

Tgt Ion: 88 Resp: 148
Ion Ratio Lower Upper
88 100
43 1171995.3 26.6 39.8#
58 6513.5 59.5 89.3#

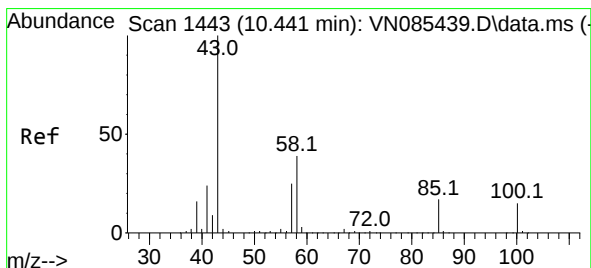
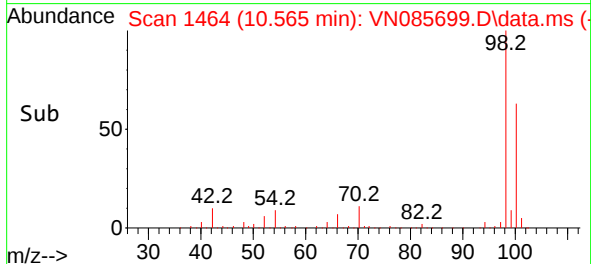
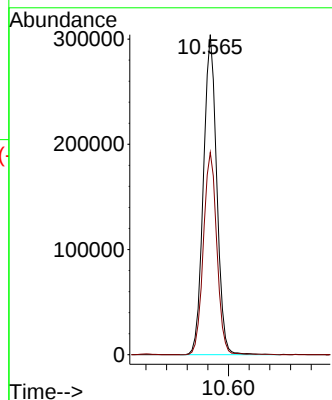
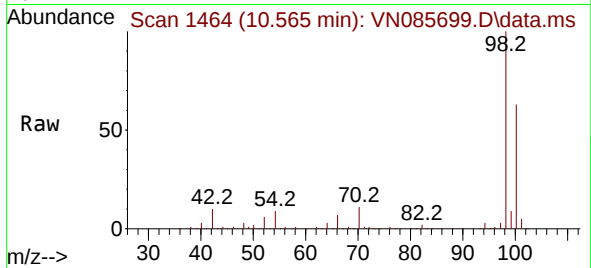




#50
Toluene-d8
Concen: 53.464 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

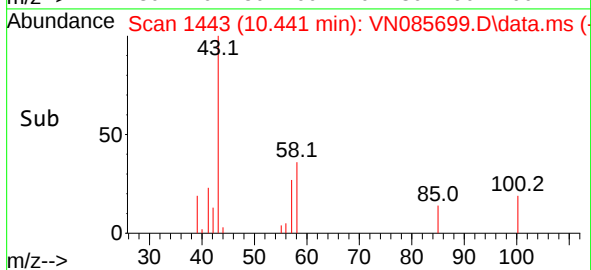
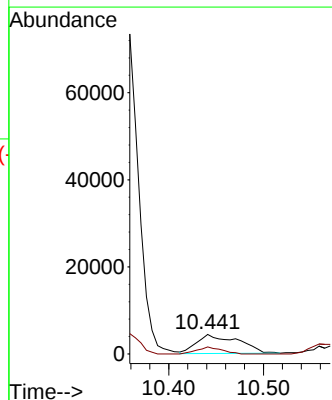
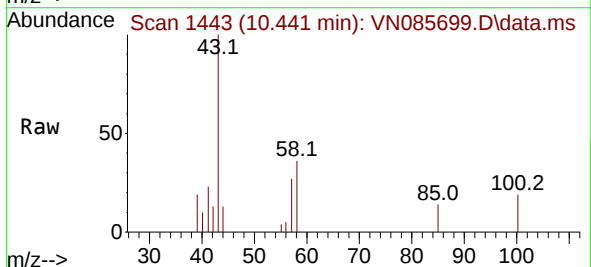
Instrument :
MSVOA_N
ClientSampleId :

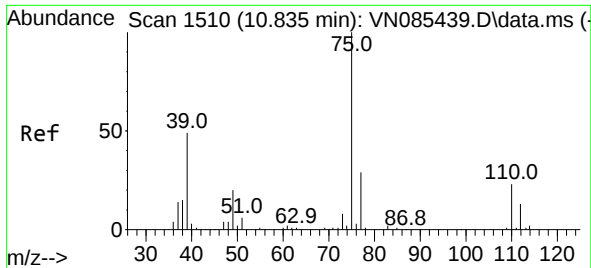
Tgt Ion: 98 Resp: 544176
Ion Ratio Lower Upper
98 100
100 63.9 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 3.527 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

Tgt Ion: 43 Resp: 13310
Ion Ratio Lower Upper
43 100
58 21.9 30.5 45.7#

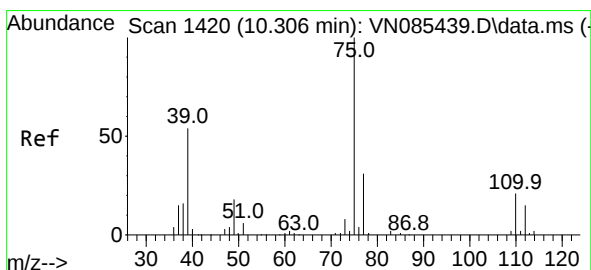
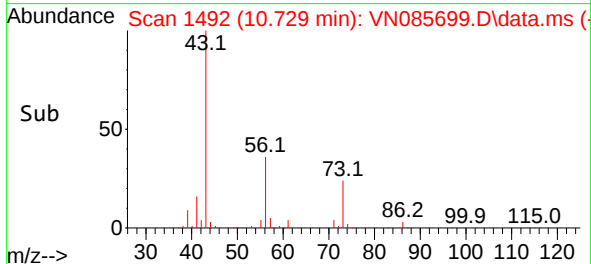
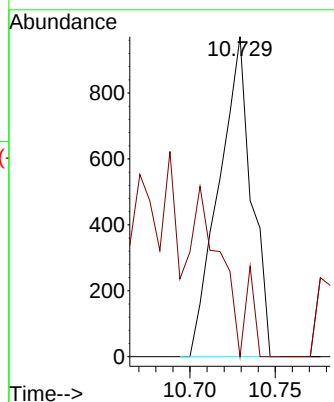
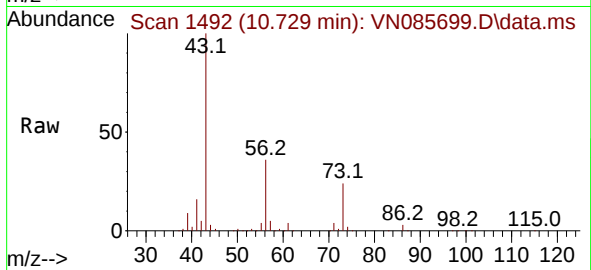




#53
 t-1,3-Dichloropropene
 Concen: 0.301 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.106 min
 Lab File: VN085699.D
 Acq: 07 Feb 2025 16:17

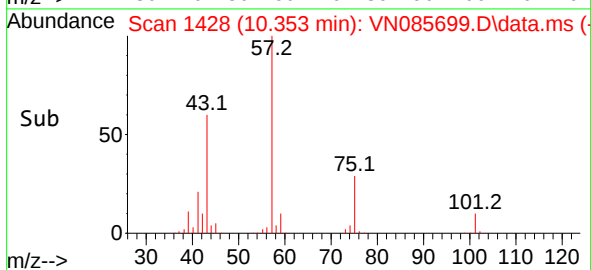
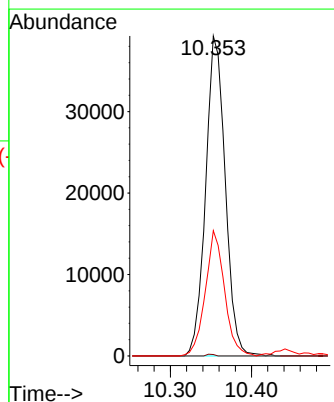
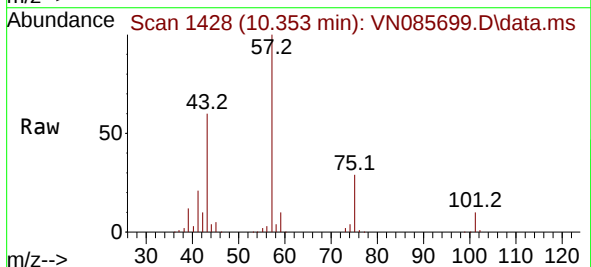
Instrument :
 MSVOA_N
 ClientSampleId :

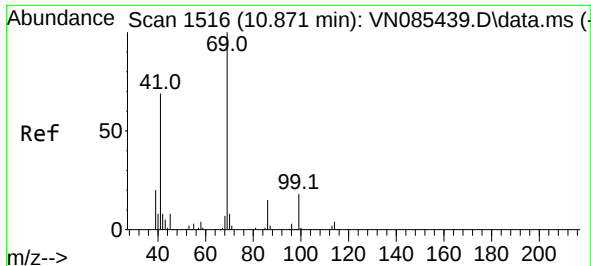
Tgt Ion: 75 Resp: 1289
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.5 35.3#



#54
 cis-1,3-Dichloropropene
 Concen: 14.359 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085699.D
 Acq: 07 Feb 2025 16:17

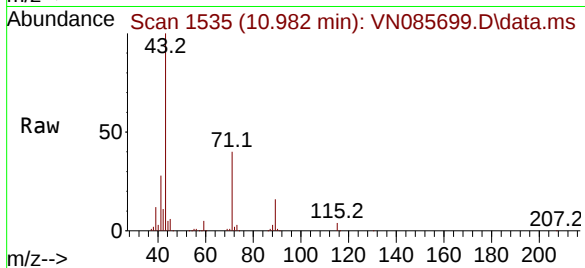
Tgt Ion: 75 Resp: 65749
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.0 37.4#
 39 39.2 43.1 64.7#



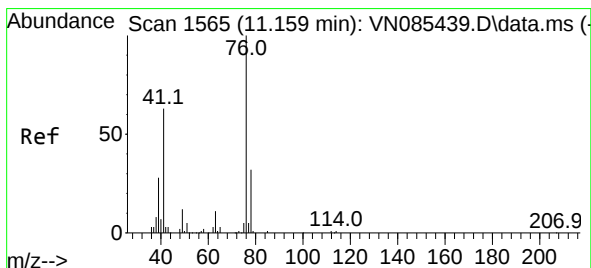
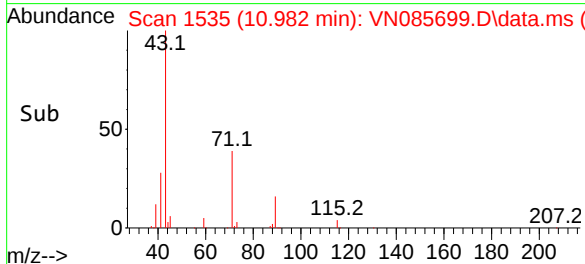
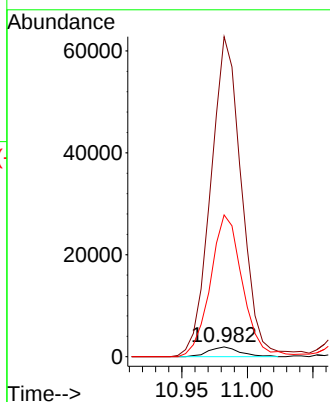


#56
Ethyl methacrylate
Concen: 2.583 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

Instrument :
MSVOA_N
ClientSampleId :

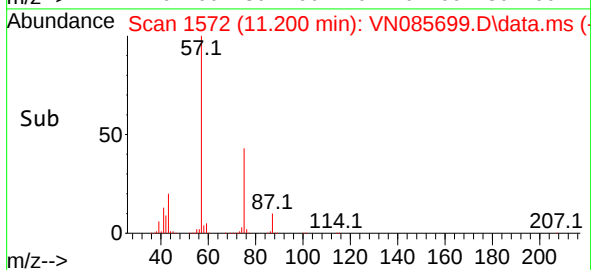
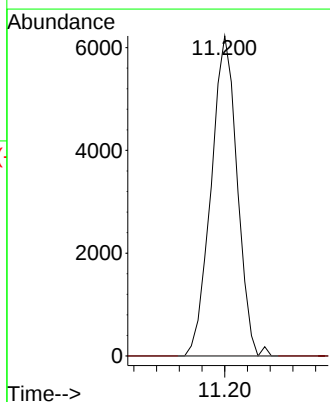
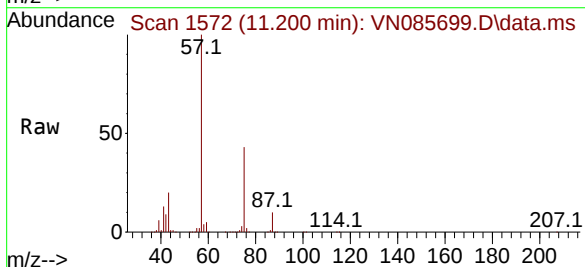


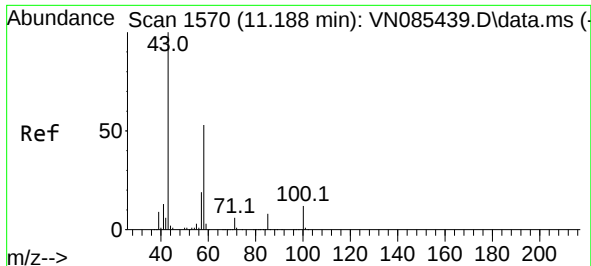
Tgt Ion: 69 Resp: 3166
Ion Ratio Lower Upper
69 100
41 3260.6 54.6 82.0#
39 1493.0 32.4 48.6#



#57
1,3-Dichloropropane
Concen: 2.061 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

Tgt Ion: 76 Resp: 9929
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

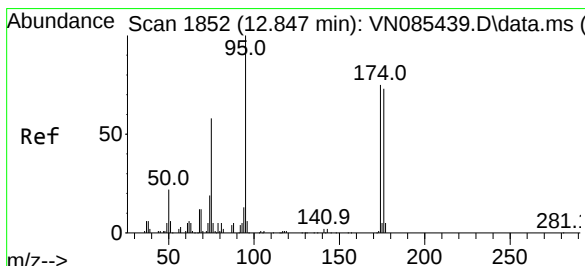
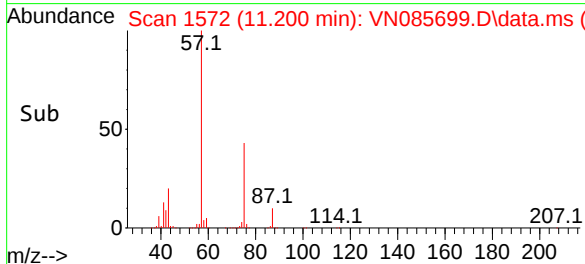
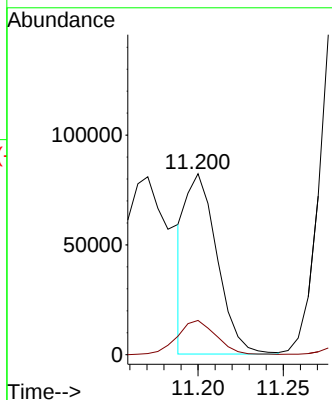
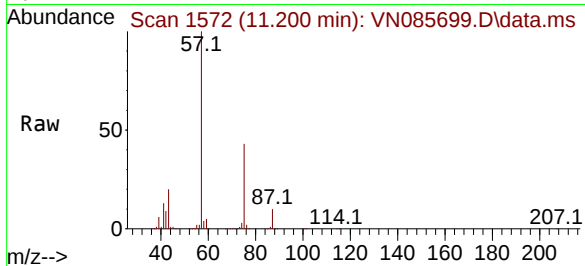




#59
2-Hexanone
Concen: 39.775 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

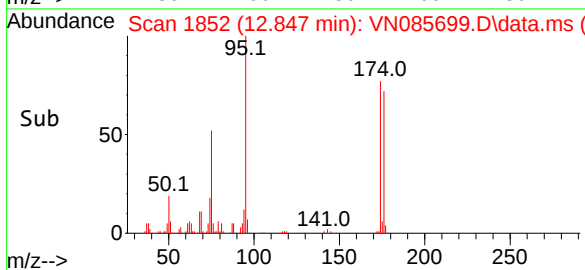
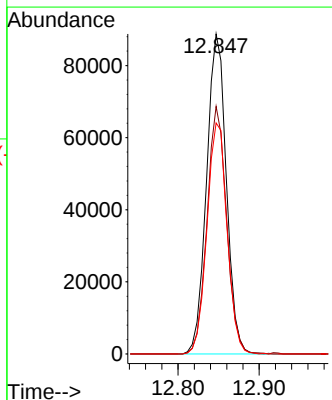
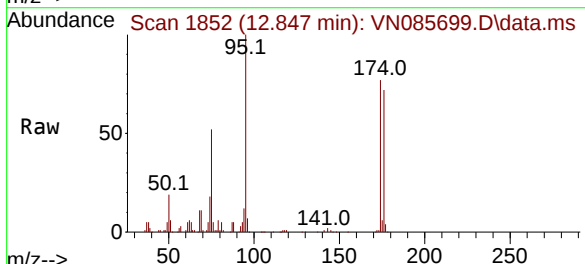
Instrument :
MSVOA_N
ClientSampleId :

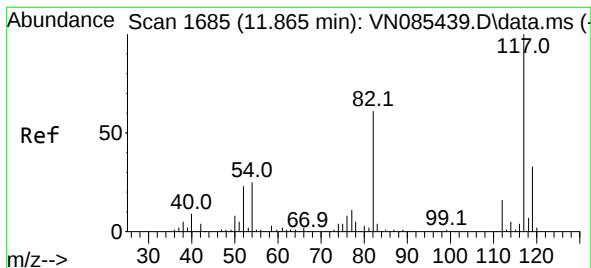
Tgt Ion: 43 Resp: 105606
Ion Ratio Lower Upper
43 100
58 23.7 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 43.026 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

Tgt Ion: 95 Resp: 149806
Ion Ratio Lower Upper
95 100
174 76.8 0.0 145.0
176 73.6 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085699.D

Acq: 07 Feb 2025 16:17

Instrument :

MSVOA_N

ClientSampleId :

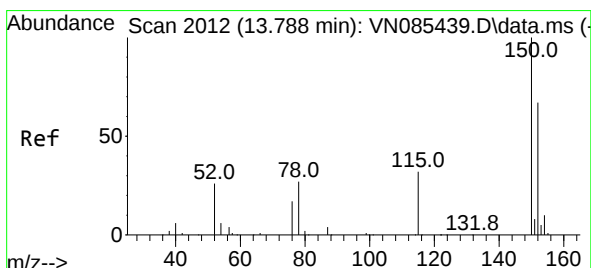
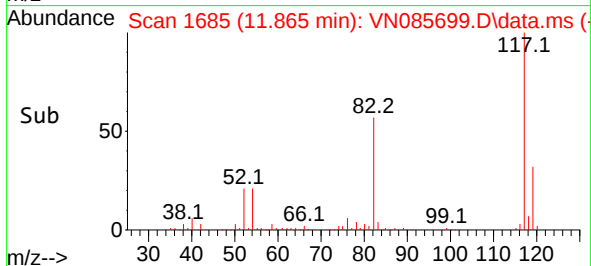
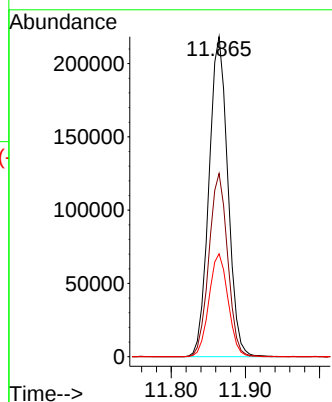
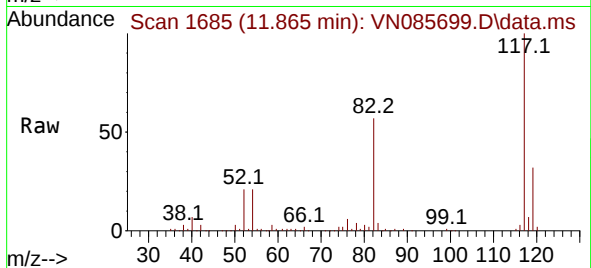
Tgt Ion:117 Resp: 386677

Ion Ratio Lower Upper

117 100

82 57.3 48.6 72.8

119 32.2 26.6 39.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085699.D

Acq: 07 Feb 2025 16:17

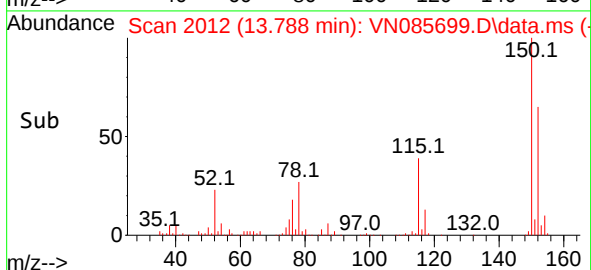
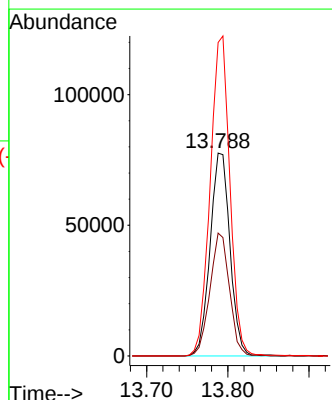
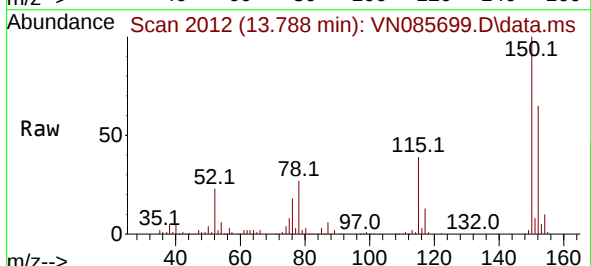
Tgt Ion:152 Resp: 132135

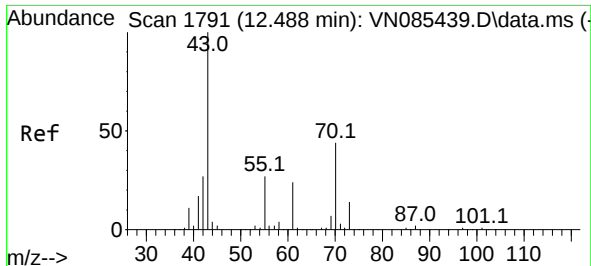
Ion Ratio Lower Upper

152 100

115 59.4 31.1 93.3

150 156.4 0.0 343.6

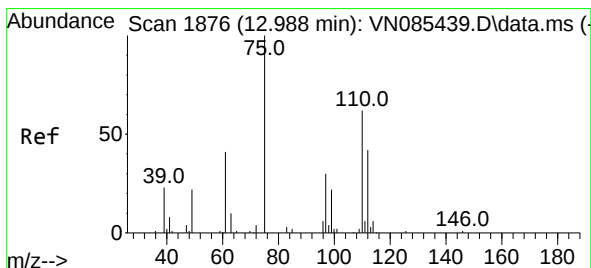
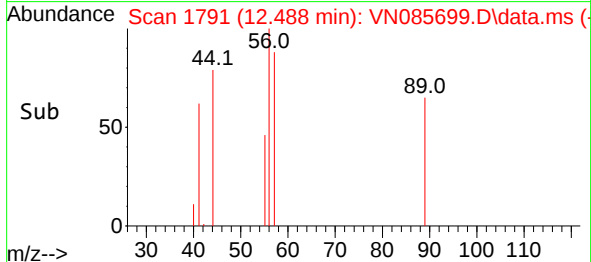
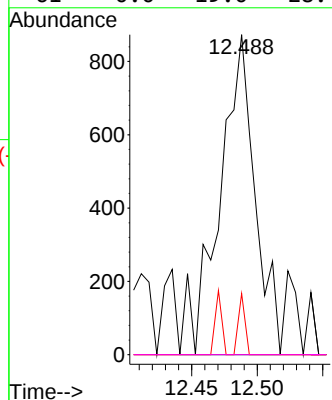
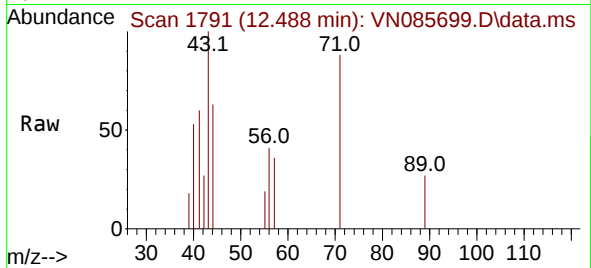




#74
N-amy1 acetate
Concen: 0.414 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

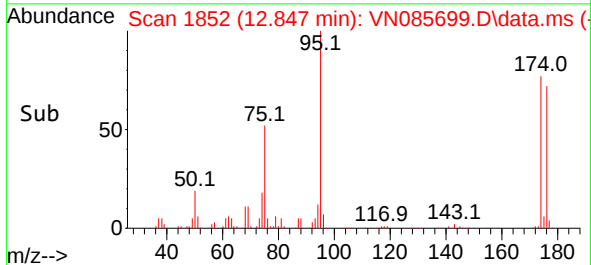
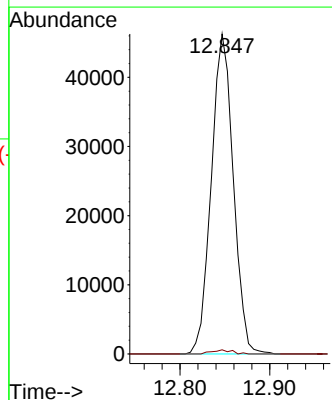
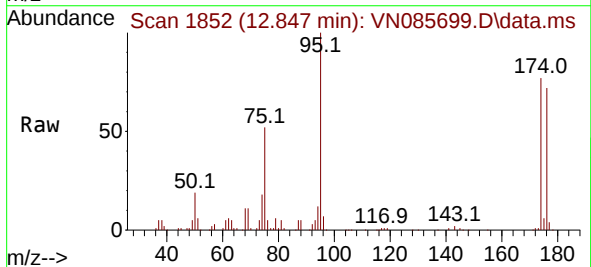
Instrument :
MSVOA_N
ClientSampleId :

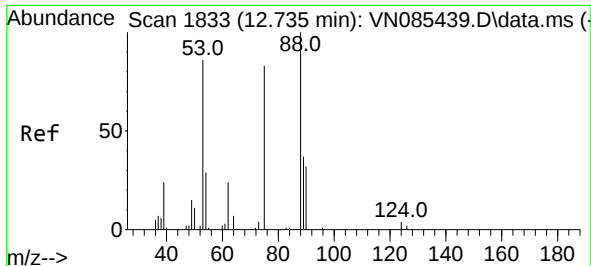
Tgt Ion: 43	Resp: 1659
Ion Ratio	Lower Upper
43 100	
70 0.0	34.0 51.0#
55 0.0	21.4 32.2#
61 0.0	19.0 28.4#



#76
1,2,3-Trichloropropane
Concen: 29.353 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085699.D
Acq: 07 Feb 2025 16:17

Tgt Ion: 75	Resp: 78832
Ion Ratio	Lower Upper
75 100	
77 1.2	109.7 329.2#

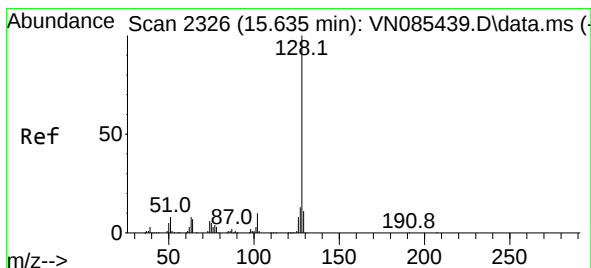
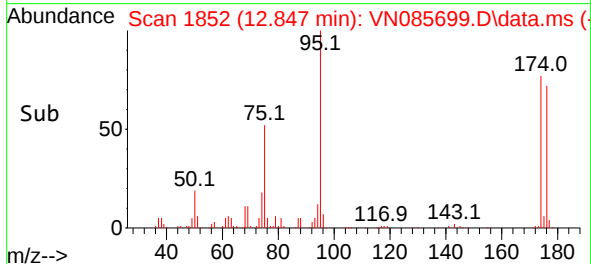
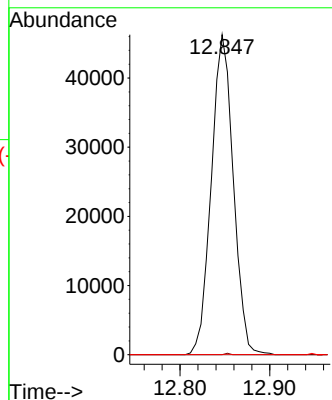
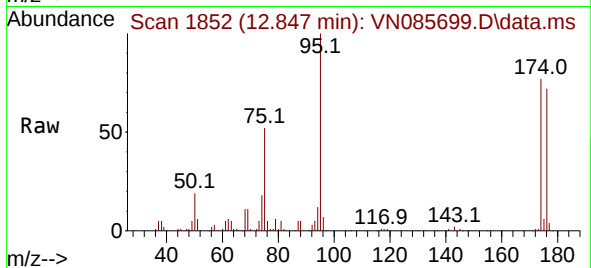




#81
 trans-1,4-Dichloro-2-butene
 Concen: 79.416 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN085699.D
 Acq: 07 Feb 2025 16:17

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 75 Resp: 78832
 Ion Ratio Lower Upper
 75 100
 53 0.1 95.6 143.4#
 89 0.0 37.0 55.6#



#95
 Naphthalene
 Concen: 0.256 ug/l
 RT: 15.635 min Scan# 2326
 Delta R.T. -0.000 min
 Lab File: VN085699.D
 Acq: 07 Feb 2025 16:17

Tgt Ion:128 Resp: 1521
 Ion Ratio Lower Upper
 128 100
 127 7.4 10.6 16.0#
 129 0.0 8.8 13.2#

