

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN033125\
 Data File : VN086187.D
 Acq On : 31 Mar 2025 22:17
 Operator : JC\MD
 Sample : Q1679-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

Quant Time: Apr 01 01:41:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

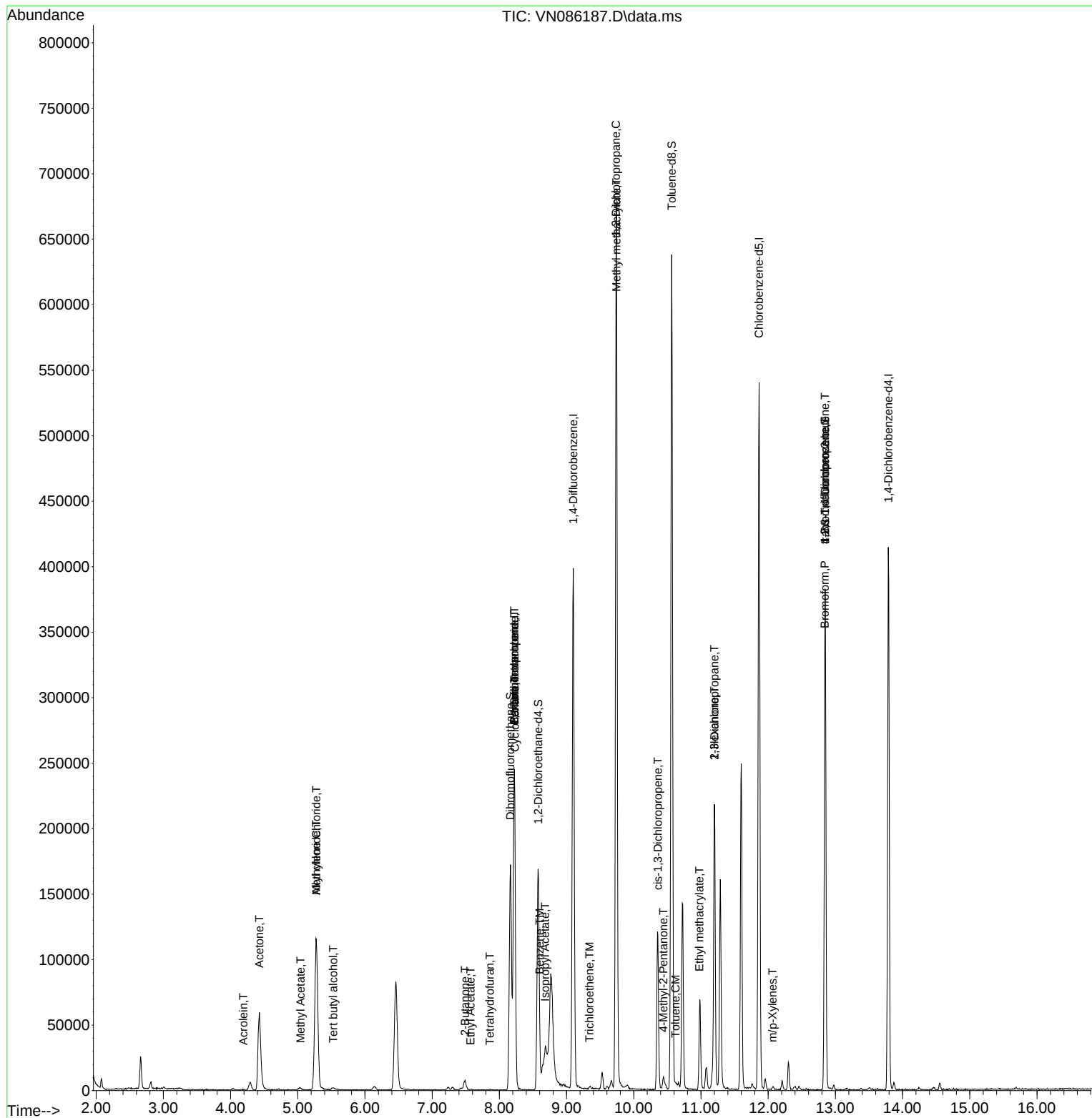
Internal Standards						
1) Pentafluorobenzene	8.224	168	177625	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	350152	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	327005	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	117280	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	138317	56.867	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.740%			
35) Dibromofluoromethane	8.165	113	125041	51.162	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.320%			
50) Toluene-d8	10.565	98	444417	50.103	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.200%			
62) 4-Bromofluorobenzene	12.847	95	132122	41.767	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 83.540%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.530	59	2675	7.768	ug/l #	80
13) Acrolein	4.189	56	500	1.361	ug/l	86
14) Allyl chloride	5.277	41	2731	1.203	ug/l #	20
16) Acetone	4.430	43	107361	144.479	ug/l	100
18) Methyl Acetate	5.042	43	3793	2.063	ug/l #	86
20) Methylene Chloride	5.277	84	96859	44.557	ug/l	93
25) 2-Butanone	7.488	43	12161	11.342	ug/l	99
29) Tetrahydrofuran	7.859	42	282	0.426	ug/l #	24
31) Cyclohexane	8.230	56	3940	1.300	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	14868	4.620	ug/l #	42
37) Ethyl Acetate	7.571	43	628	0.231	ug/l #	64
38) Carbon Tetrachloride	8.224	117	18421	4.353	ug/l #	17
40) Benzene	8.600	78	6077	0.602	ug/l	98
43) Isopropyl Acetate	8.682	43	44172	7.508	ug/l #	63
44) Trichloroethene	9.341	130	883	0.337	ug/l	69
45) 1,2-Dichloropropane	9.735	63	903	0.393	ug/l #	44
48) Methyl methacrylate	9.741	41	60950	31.395	ug/l #	33
51) 4-Methyl-2-Pentanone	10.441	43	8595	3.313	ug/l #	74
52) Toluene	10.624	92	1368	0.221	ug/l	85
54) cis-1,3-Dichloropropene	10.359	75	21612	5.585	ug/l #	71
56) Ethyl methacrylate	10.976	69	703	0.423	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	2300	0.572	ug/l #	42
59) 2-Hexanone	11.200	43	36649	19.389	ug/l #	45
68) m/p-Xylenes	12.065	106	991	0.211	ug/l	84
71) Bromoform	12.841	173	1072	0.461	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	66284	25.245	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	66284	66.742	ug/l #	16

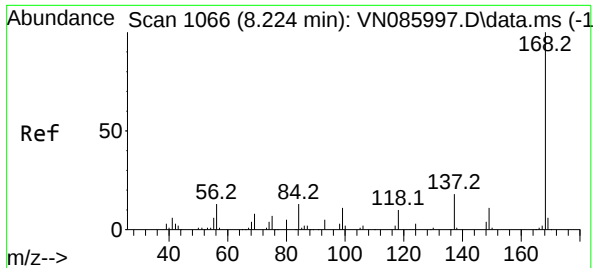
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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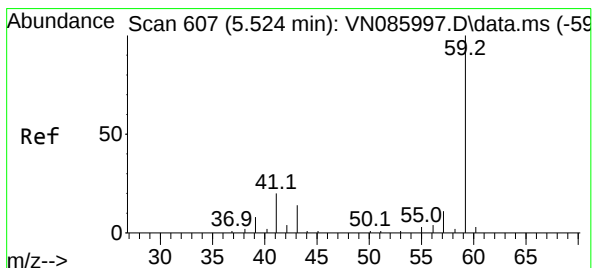
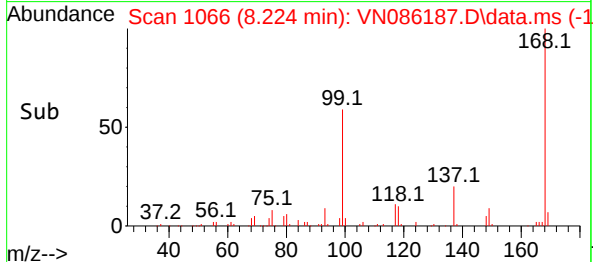
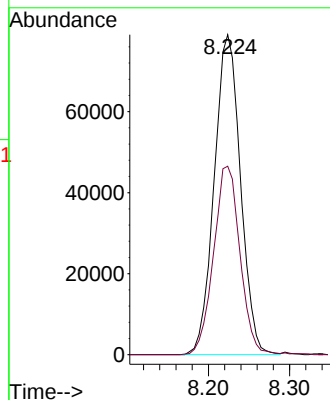
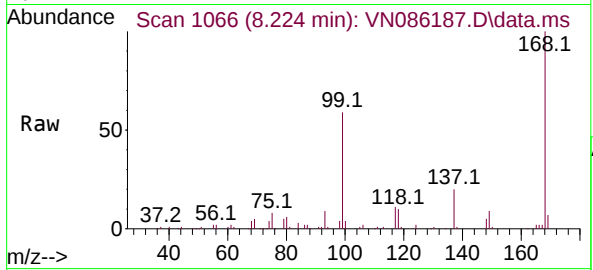




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

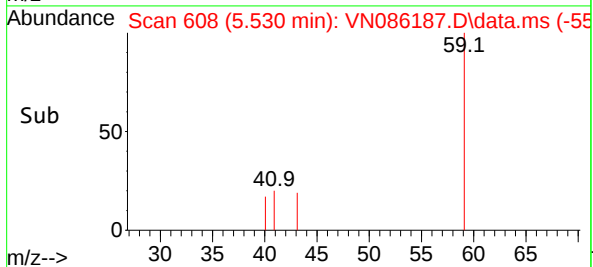
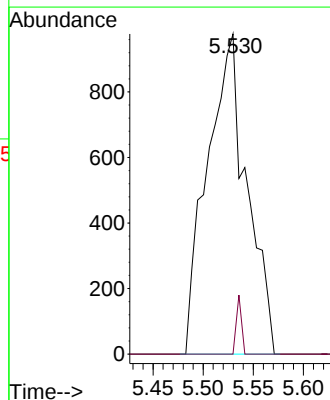
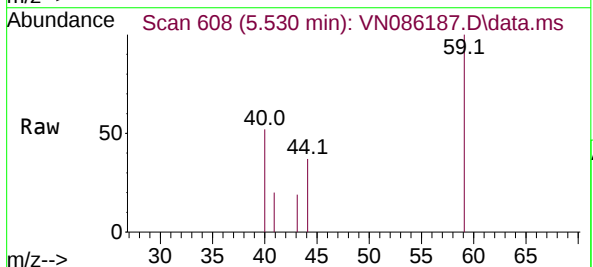
Instrument :
MSVOA_N
ClientSampleId :
TP-9

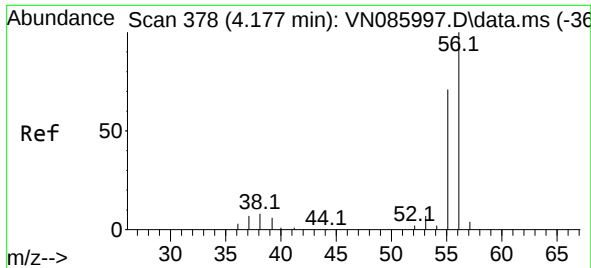
Tgt Ion:168 Resp: 177625
Ion Ratio Lower Upper
168 100
99 58.9 49.4 74.2



#11
Tert butyl alcohol
Concen: 7.768 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

Tgt Ion: 59 Resp: 2675
Ion Ratio Lower Upper
59 100
57 2.4 7.9 11.9#

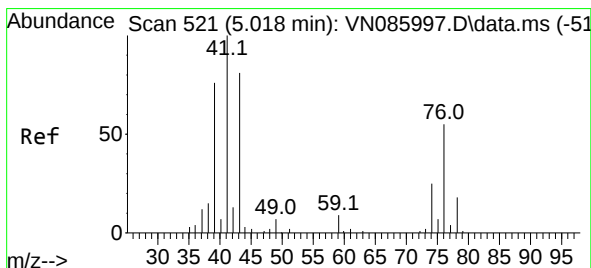
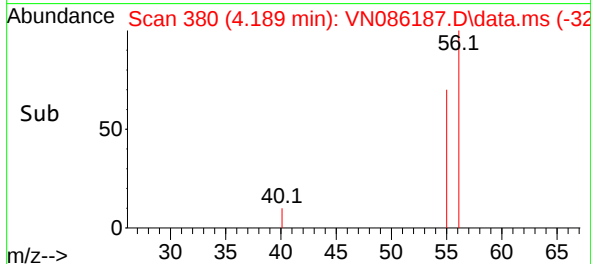
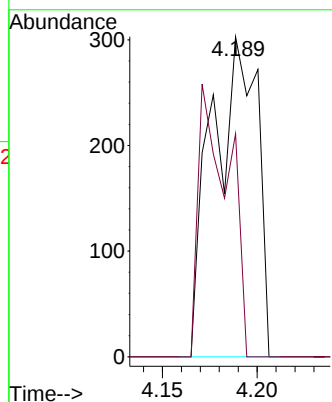
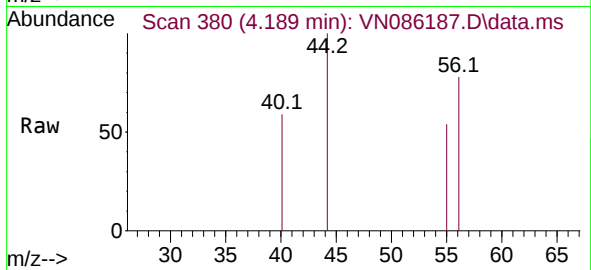




#13
Acrolein
Concen: 1.361 ug/l
RT: 4.189 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

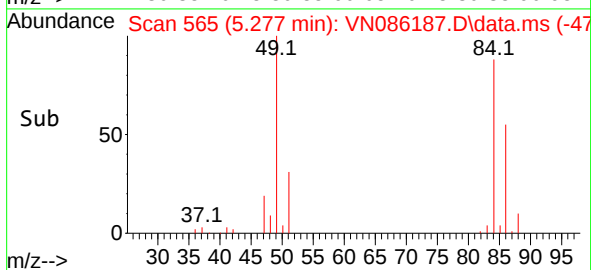
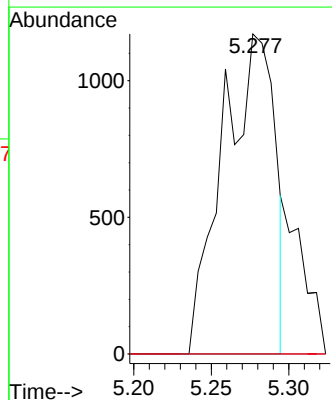
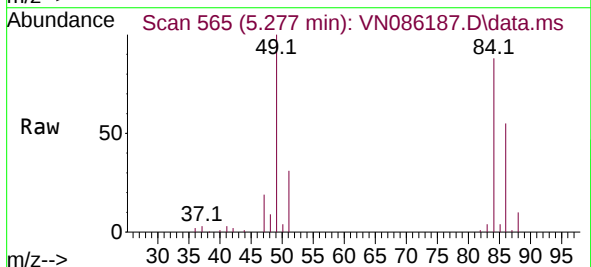
Instrument :
MSVOA_N
ClientSampleId :
TP-9

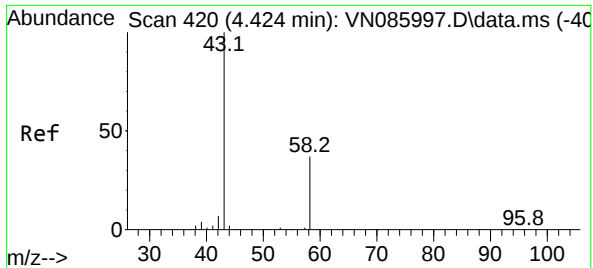
Tgt Ion: 56 Resp: 500
Ion Ratio Lower Upper
56 100
55 57.2 55.1 82.7



#14
Allyl chloride
Concen: 1.203 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.259 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

Tgt Ion: 41 Resp: 2731
Ion Ratio Lower Upper
41 100
39 0.0 55.5 83.3#
76 0.0 39.1 58.7#

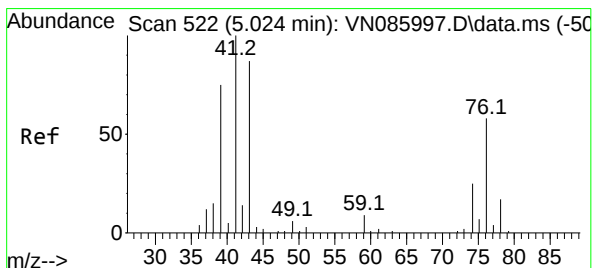
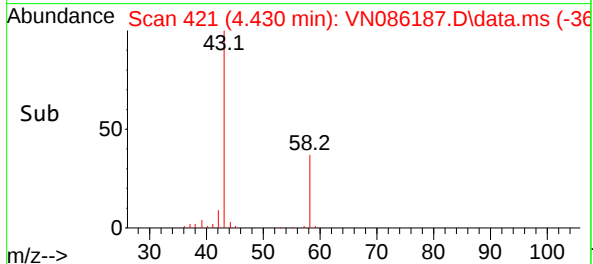
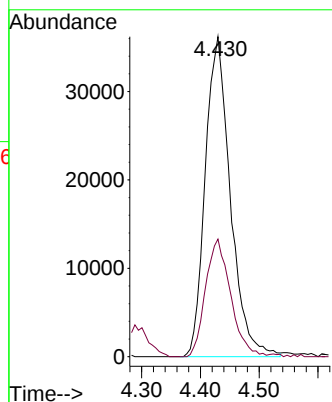
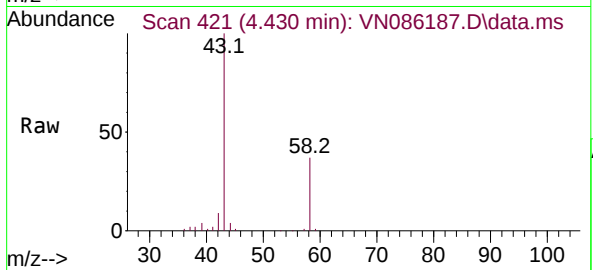




#16
Acetone
Concen: 144.479 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

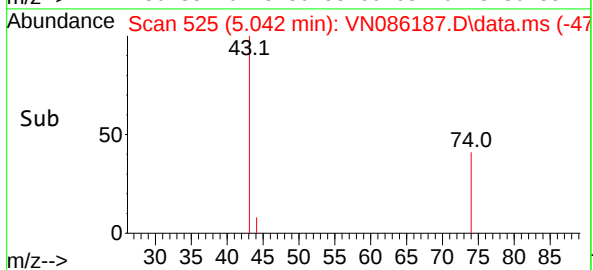
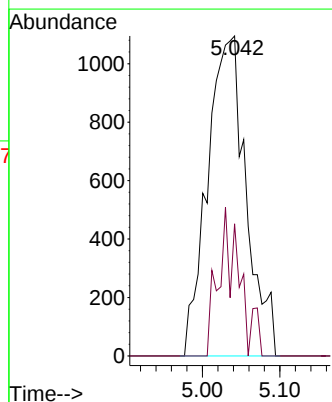
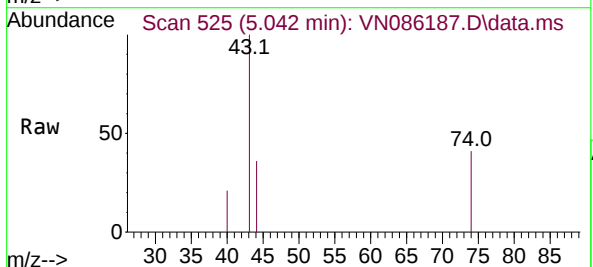
Instrument :
MSVOA_N
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TP-9

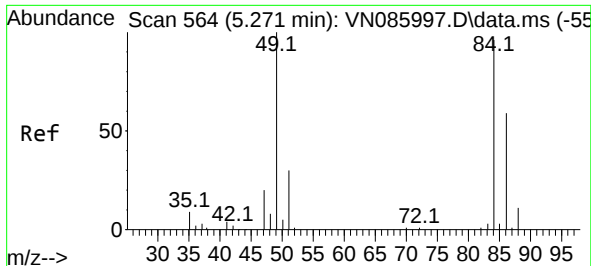
Tgt Ion: 43 Resp: 107361
Ion Ratio Lower Upper
43 100
58 36.8 29.4 44.2



#18
Methyl Acetate
Concen: 2.063 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.017 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

Tgt Ion: 43 Resp: 3793
Ion Ratio Lower Upper
43 100
74 22.6 23.9 35.9#

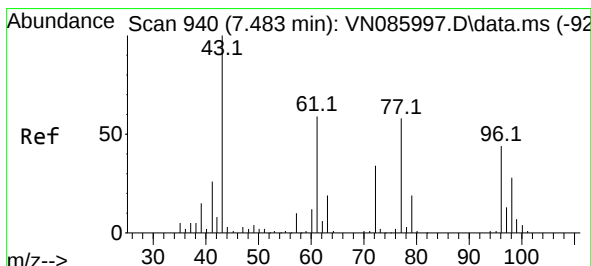
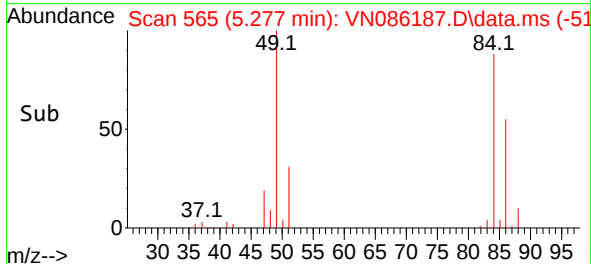
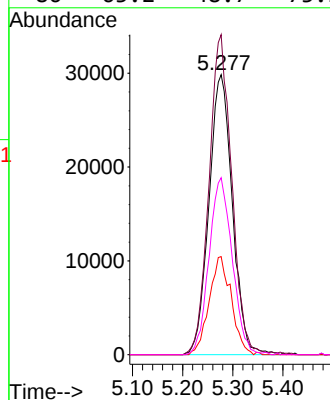
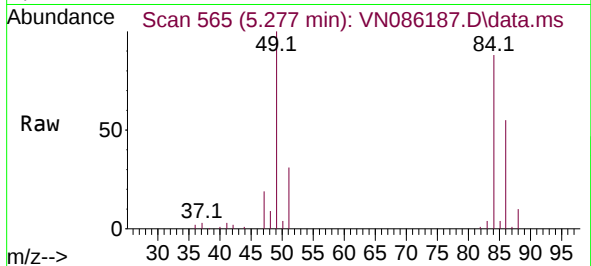




#20
Methylene Chloride
Concen: 44.557 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

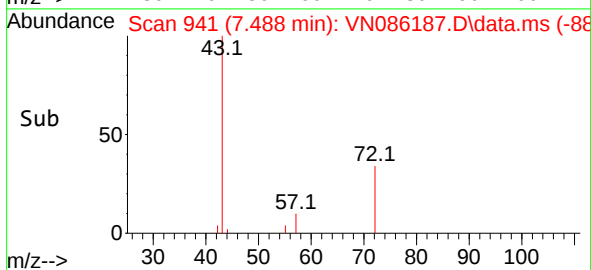
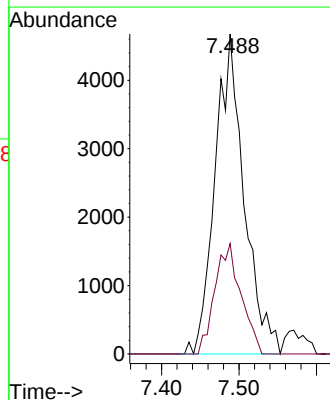
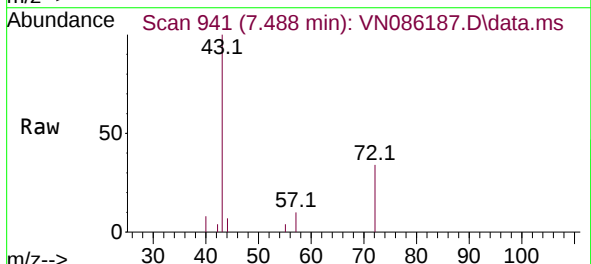
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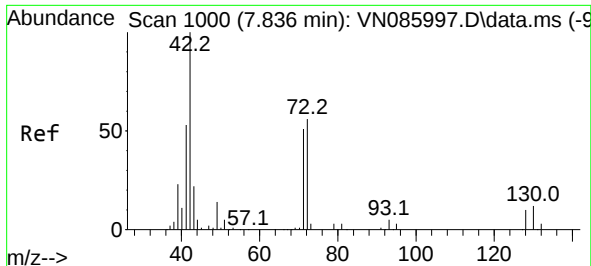
Tgt Ion: 84	Resp: 96859		
Ion	Ratio	Lower	Upper
84	100		
49	114.3	83.3	124.9
51	35.0	24.8	37.2
86	63.2	48.7	73.1



#25
2-Butanone
Concen: 11.342 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

Tgt Ion: 43	Resp: 12161
Ion Ratio	Lower Upper
43 100	
72 34.5	27.4 41.0

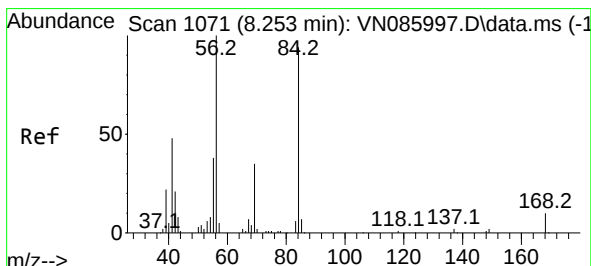
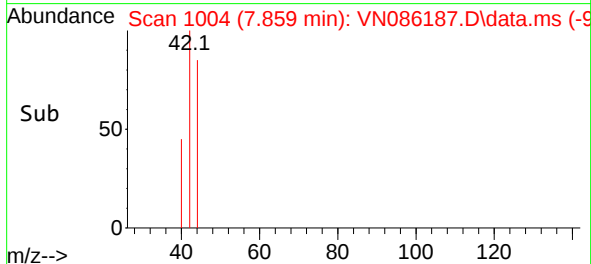
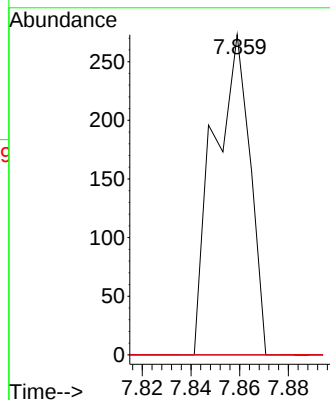
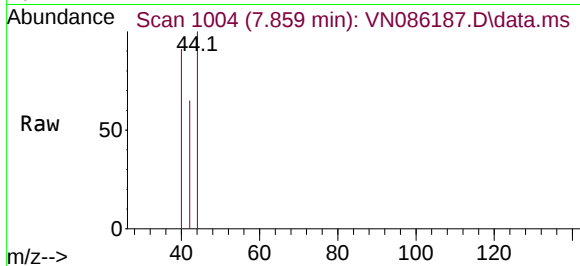




#29
Tetrahydrofuran
Concen: 0.426 ug/l
RT: 7.859 min Scan# 1067
Delta R.T. 0.023 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

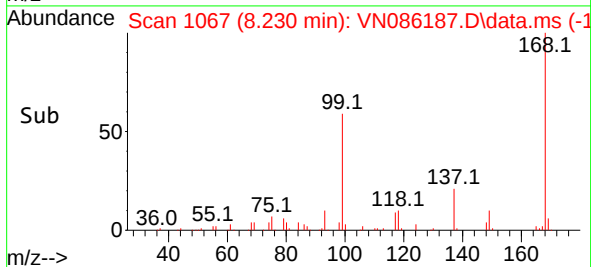
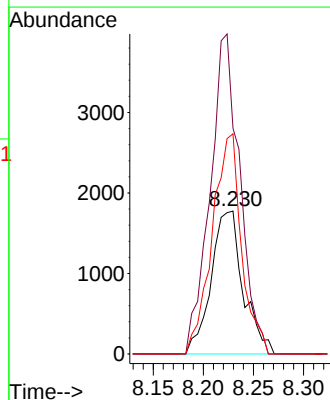
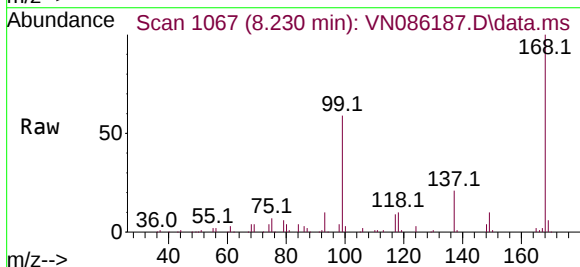
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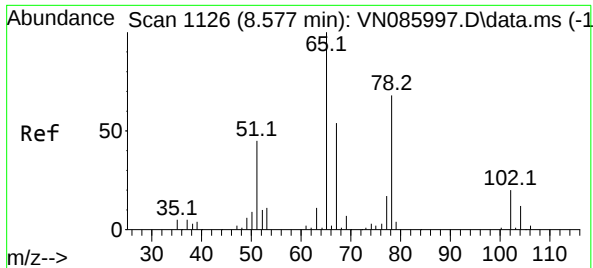
Tgt Ion: 42 Resp: 282
Ion Ratio Lower Upper
42 100
72 0.0 45.0 67.4#
71 0.0 41.9 62.9#



#31
Cyclohexane
Concen: 1.300 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.024 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

Tgt Ion: 56 Resp: 3940
Ion Ratio Lower Upper
56 100
69 157.8 28.0 42.0#
84 154.0 75.0 112.6#

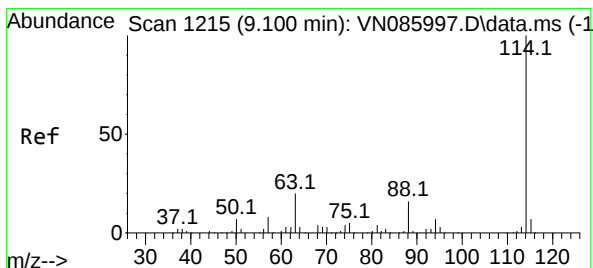
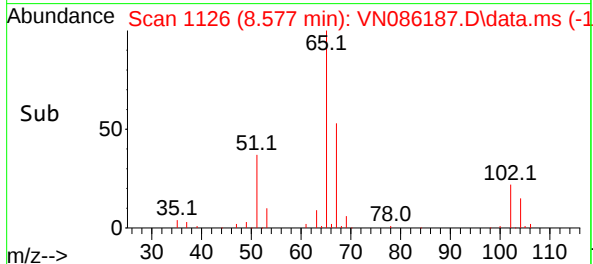
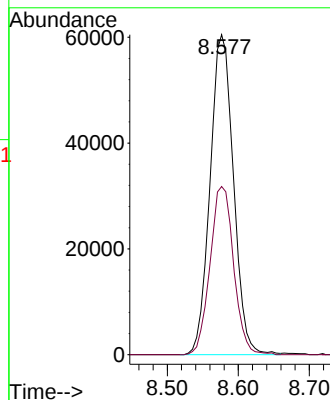
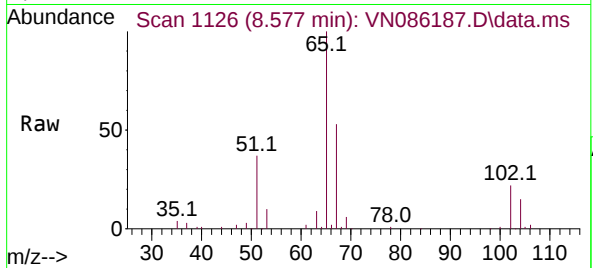




#33
 1,2-Dichloroethane-d4
 Concen: 56.867 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN086187.D
 Acq: 31 Mar 2025 22:17

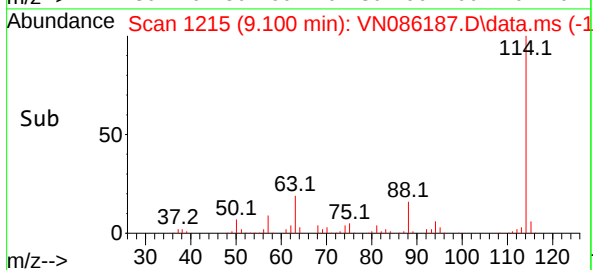
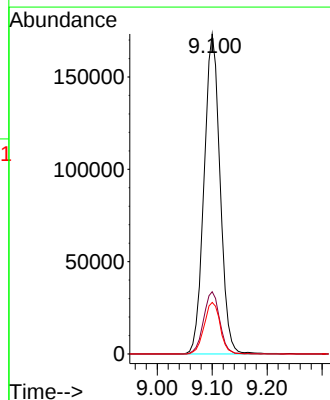
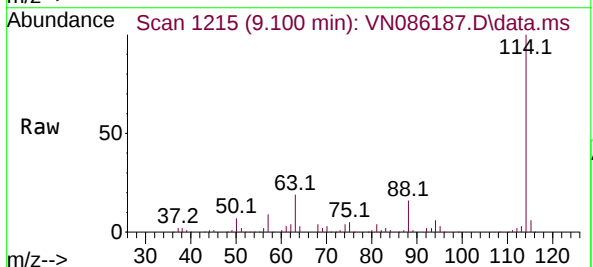
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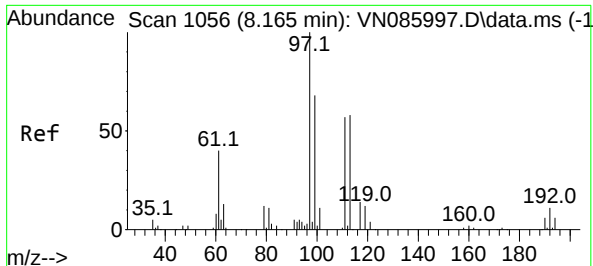
Tgt Ion: 65 Resp: 138317
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 102.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.000 min
 Lab File: VN086187.D
 Acq: 31 Mar 2025 22:17

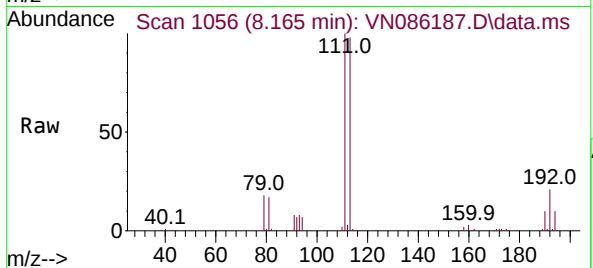
Tgt Ion: 114 Resp: 350152
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.6
 88 16.1 0.0 32.6



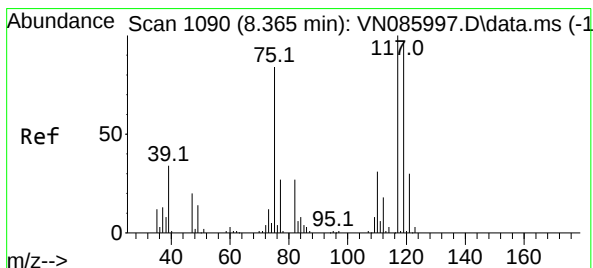
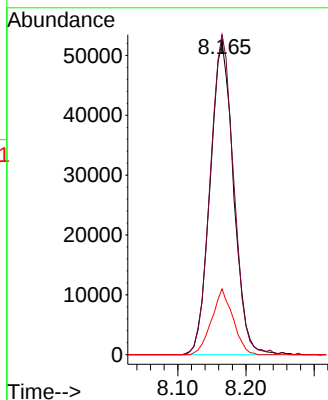
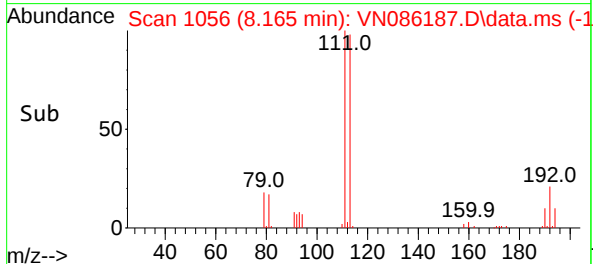


#35
Dibromofluoromethane
Concen: 51.162 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

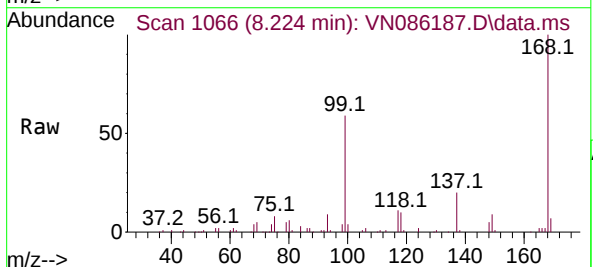
Instrument :
MSVOA_N
ClientSampleId :
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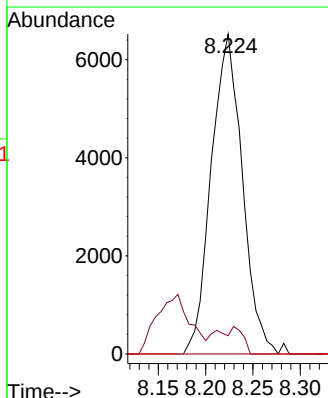
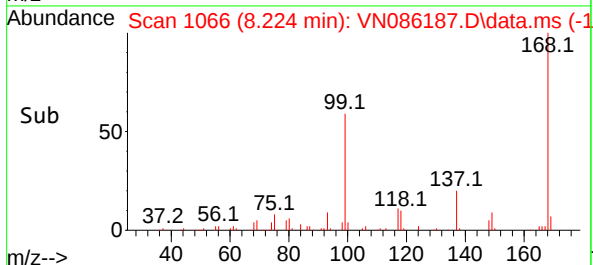
Tgt Ion:113 Resp: 125041
Ion Ratio Lower Upper
113 100
111 102.1 81.8 122.8
192 19.1 15.9 23.9

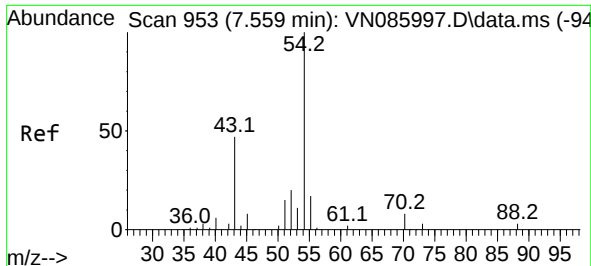


#36
1,1-Dichloropropene
Concen: 4.620 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17



Tgt Ion: 75 Resp: 14868
Ion Ratio Lower Upper
75 100
110 1.4 17.8 53.3#
77 0.0 25.0 37.4#

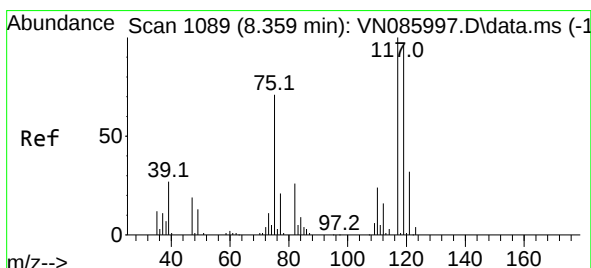
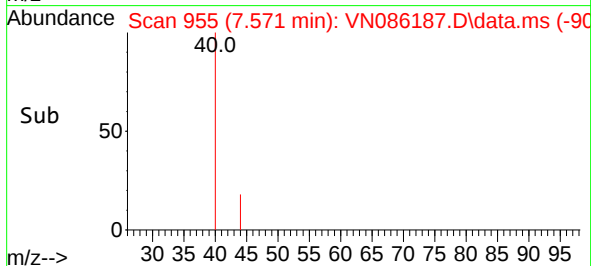
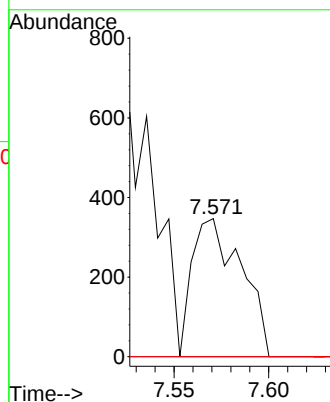
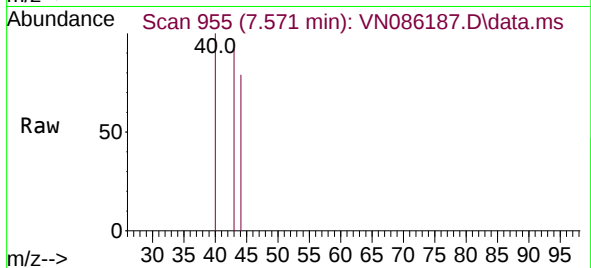




#37
Ethyl Acetate
Concen: 0.231 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

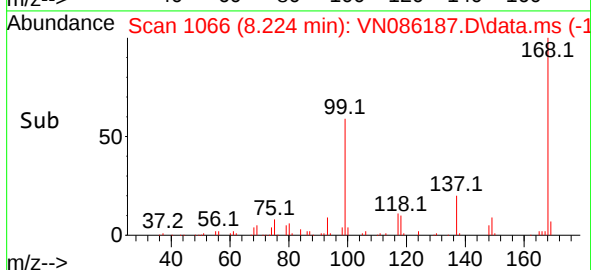
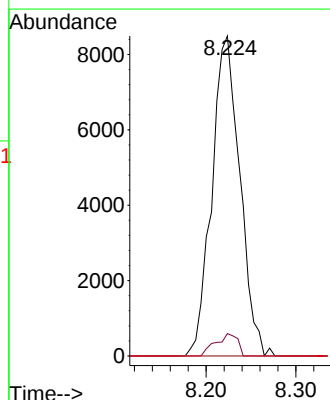
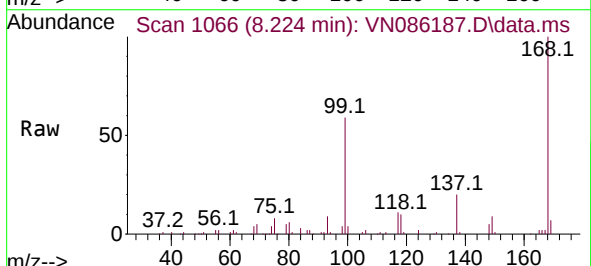
Instrument :
MSVOA_N
ClientSampleId :
TP-9

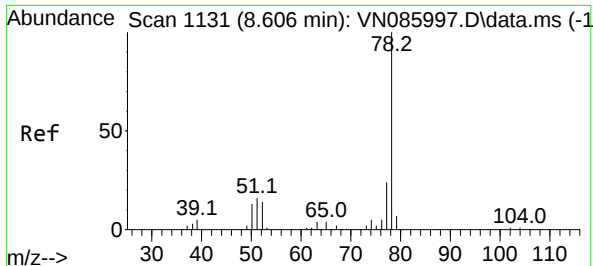
Tgt Ion: 43	Resp: 628
Ion Ratio	Lower Upper
43 100	
61 0.0	13.0 19.4#
70 0.0	11.0 16.6#



#38
Carbon Tetrachloride
Concen: 4.353 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

Tgt Ion:117	Resp:	18421	
Ion	Ratio	Lower	Upper
117	100		
119	7.0	77.0	115.4#
121	0.0	25.6	38.4#





#40

Benzene

Concen: 0.602 ug/l

RT: 8.600 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VN086187.D

Acq: 31 Mar 2025 22:17

Instrument :

MSVOA_N

ClientSampleId :

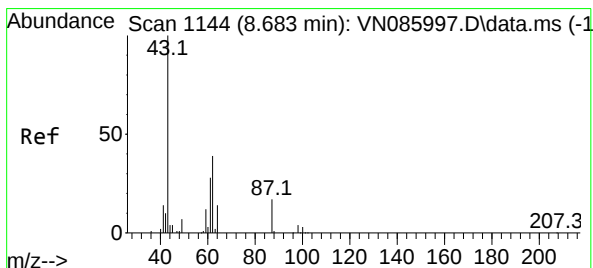
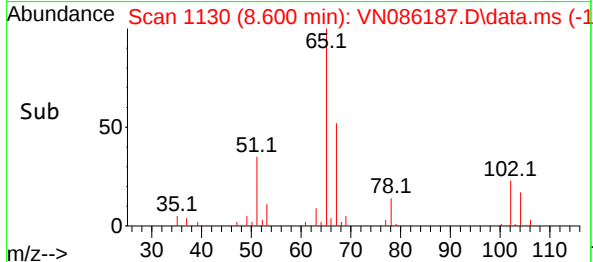
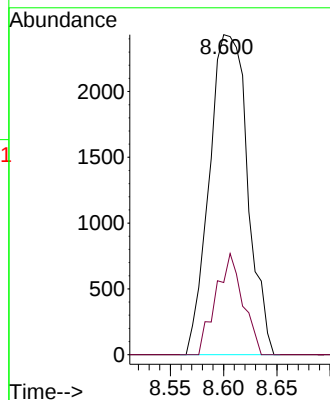
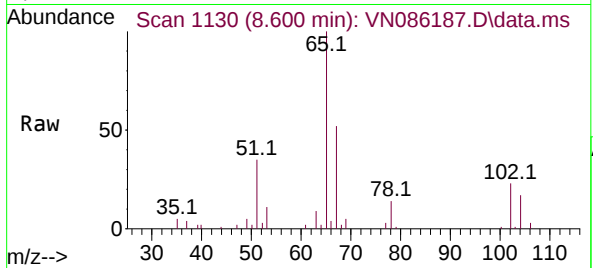
TP-9

Tgt Ion: 78 Resp: 6077

Ion Ratio Lower Upper

78 100

77 22.5 18.9 28.3



#43

Isopropyl Acetate

Concen: 7.508 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086187.D

Acq: 31 Mar 2025 22:17

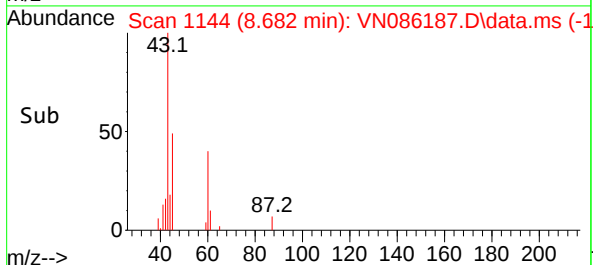
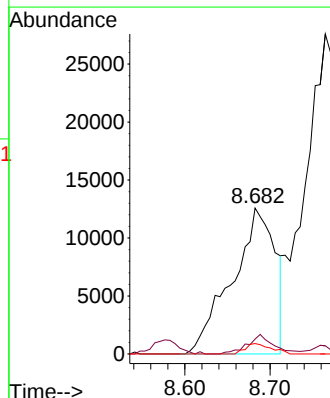
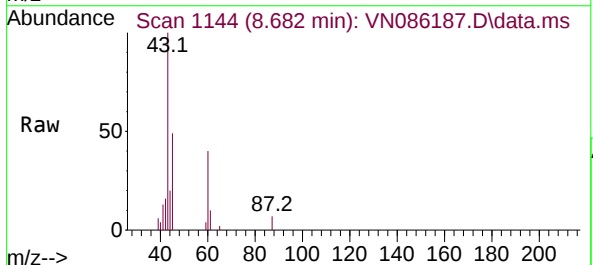
Tgt Ion: 43 Resp: 44172

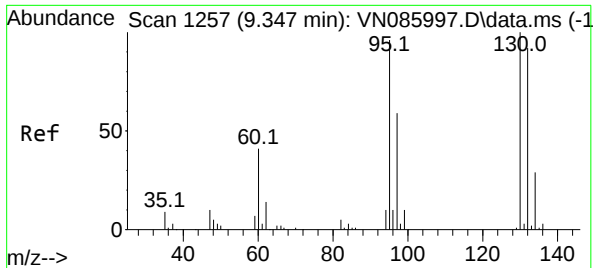
Ion Ratio Lower Upper

43 100

61 8.1 25.0 37.6#

87 4.2 13.0 19.4#

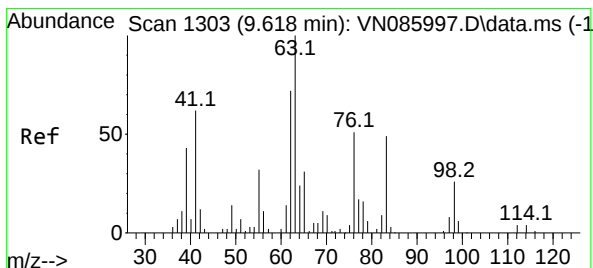
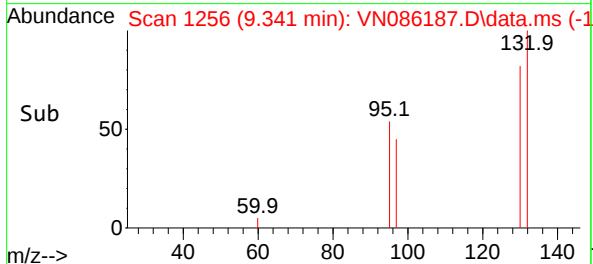
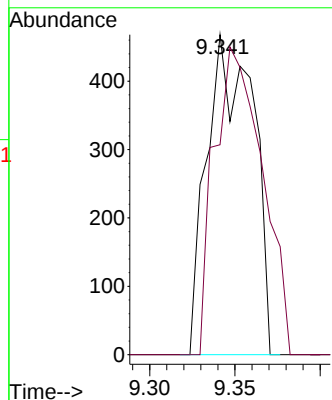
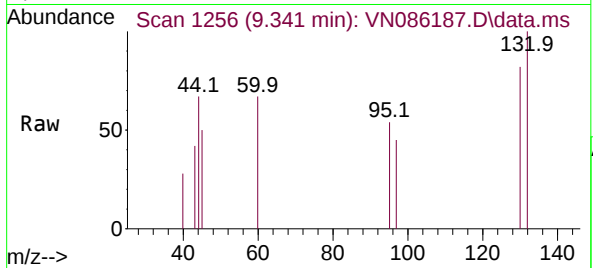




#44
Trichloroethene
Concen: 0.337 ug/l
RT: 9.341 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

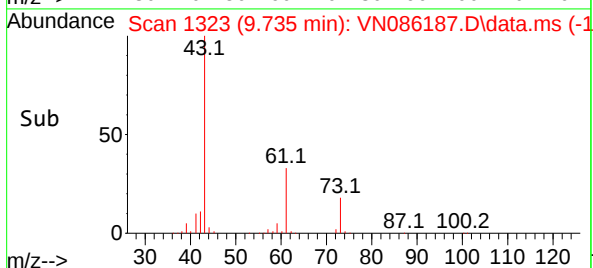
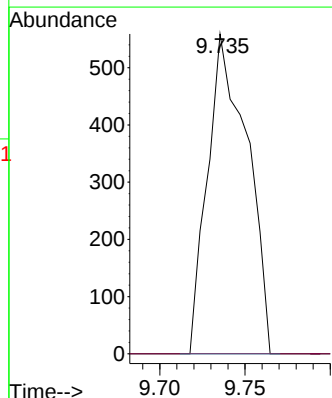
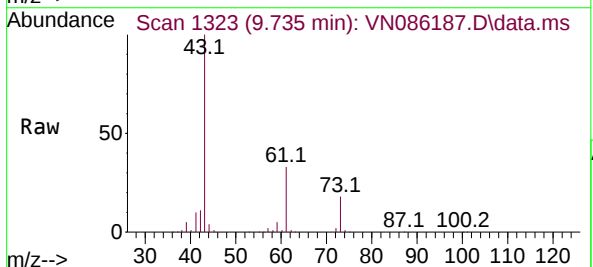
Instrument :
MSVOA_N
ClientSampleId :
TP-9

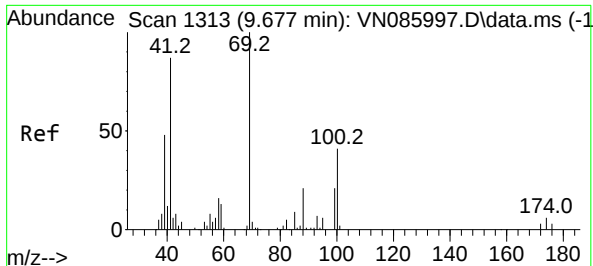
Tgt Ion:130 Resp: 883
Ion Ratio Lower Upper
130 100
95 65.6 0.0 191.6



#45
1,2-Dichloropropane
Concen: 0.393 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.117 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

Tgt Ion: 63 Resp: 903
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

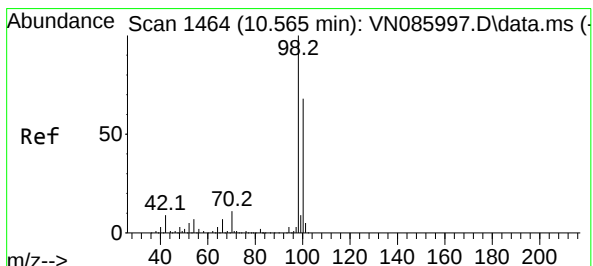
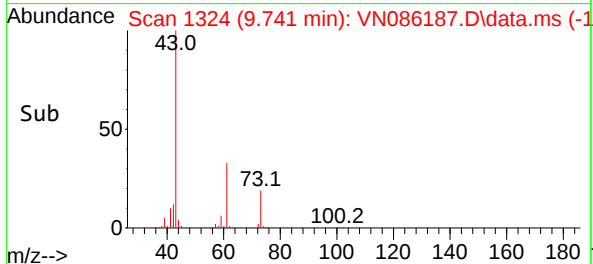
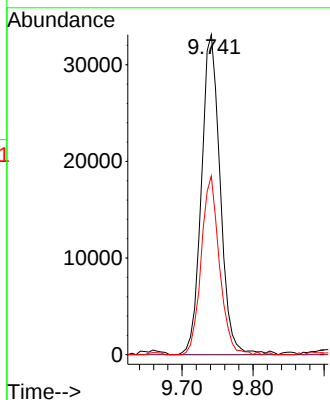
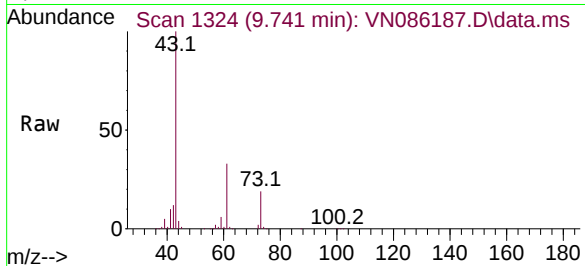




#48
Methyl methacrylate
Concen: 31.395 ug/l
RT: 9.741 min Scan# 1313
Delta R.T. 0.064 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

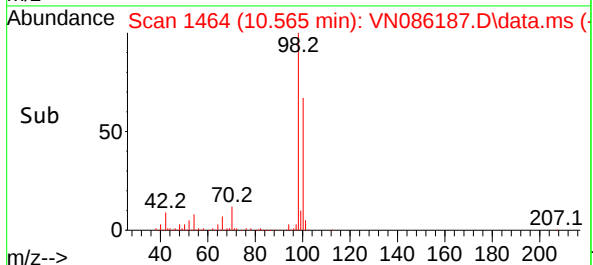
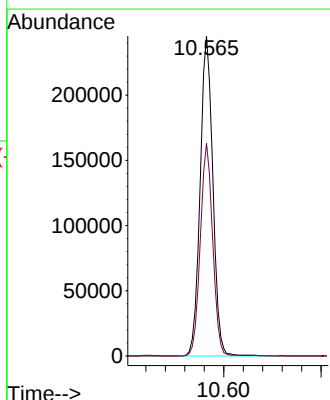
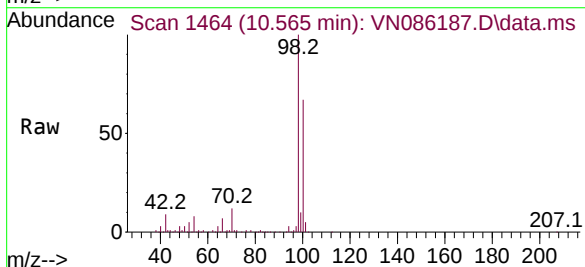
Instrument :
MSVOA_N
ClientSampleId :
TP-9

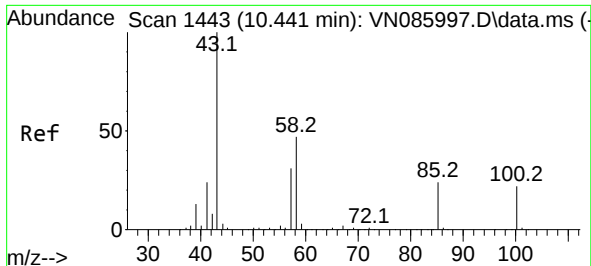
Tgt Ion: 41 Resp: 60950
Ion Ratio Lower Upper
41 100
69 0.0 83.1 124.7#
39 54.0 45.6 68.4



#50
Toluene-d8
Concen: 50.103 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

Tgt Ion: 98 Resp: 444417
Ion Ratio Lower Upper
98 100
100 64.8 53.1 79.7

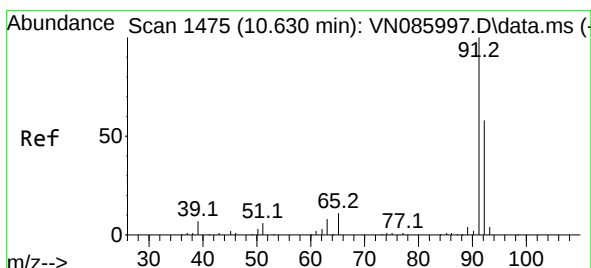
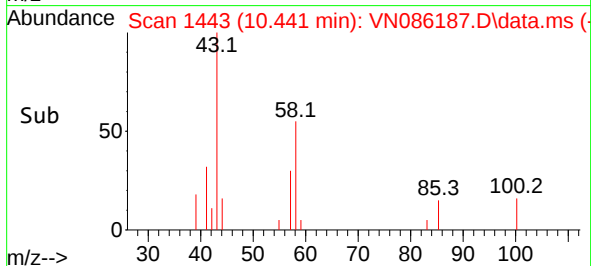
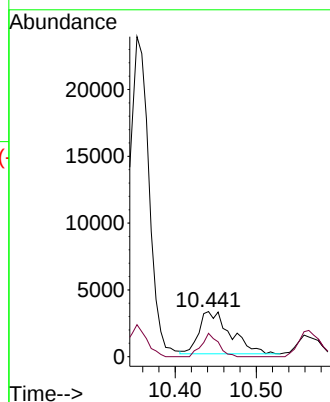
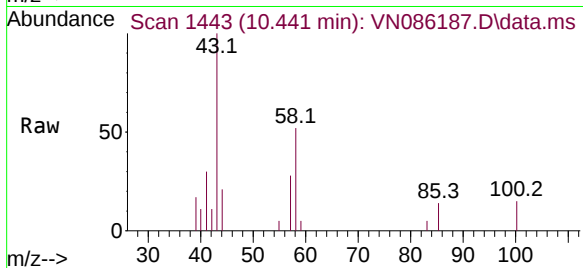




#51
4-Methyl-2-Pentanone
Concen: 3.313 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

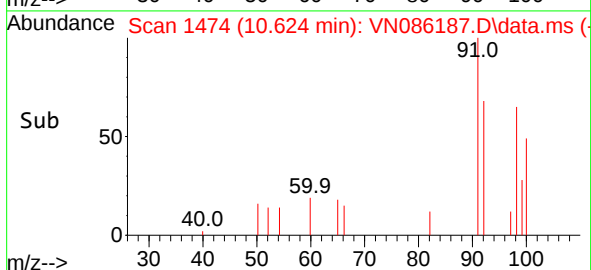
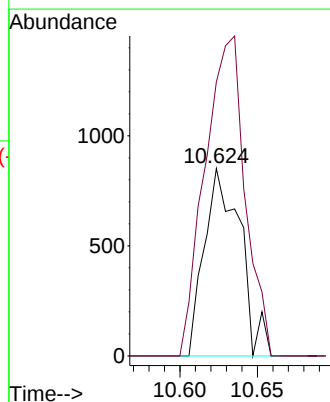
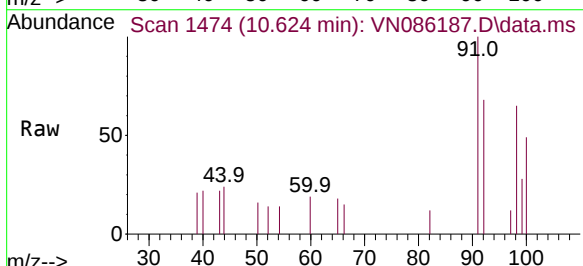
Instrument :
MSVOA_N
ClientSampleId :
TP-9

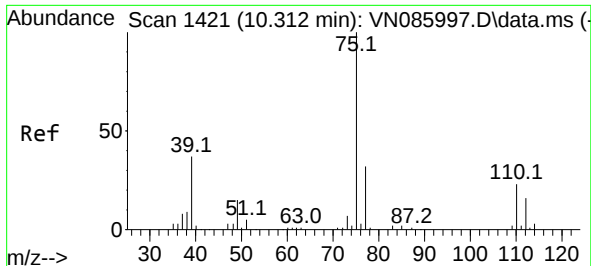
Tgt Ion: 43 Resp: 8595
Ion Ratio Lower Upper
43 100
58 29.3 37.4 56.0#



#52
Toluene
Concen: 0.221 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

Tgt Ion: 92 Resp: 1368
Ion Ratio Lower Upper
92 100
91 191.4 136.2 204.4

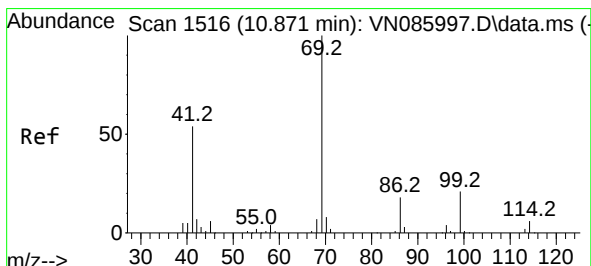
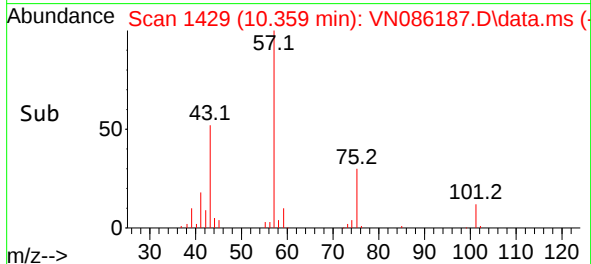
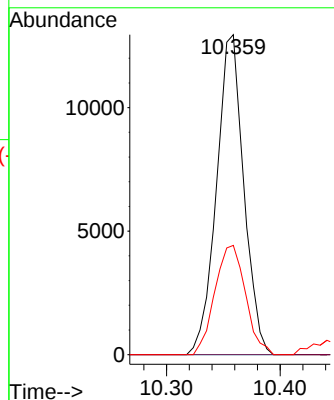
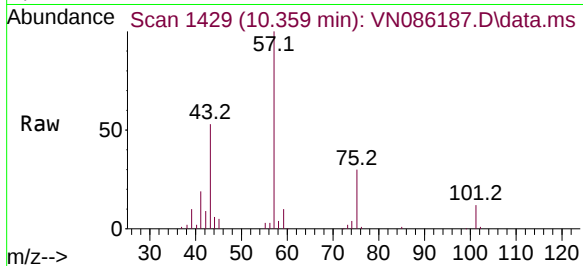




#54
 cis-1,3-Dichloropropene
 Concen: 5.585 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN086187.D
 Acq: 31 Mar 2025 22:17

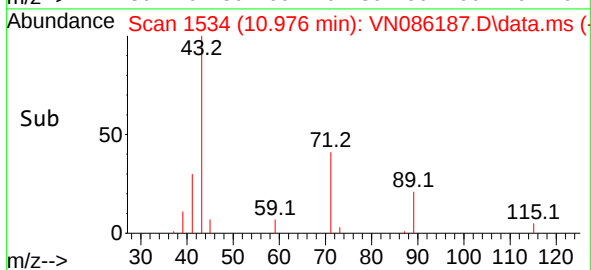
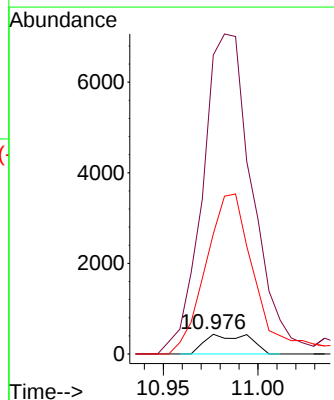
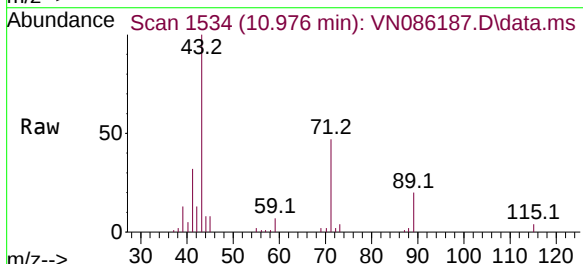
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

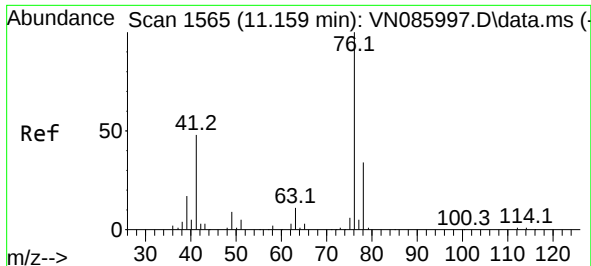
Tgt Ion: 75 Resp: 21612
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 34.1 29.6 44.4



#56
 Ethyl methacrylate
 Concen: 0.423 ug/l
 RT: 10.976 min Scan# 1534
 Delta R.T. 0.105 min
 Lab File: VN086187.D
 Acq: 31 Mar 2025 22:17

Tgt Ion: 69 Resp: 703
 Ion Ratio Lower Upper
 69 100
 41 1848.8 41.6 62.4#
 39 904.0 21.8 32.8#





#57

1,3-Dichloropropane

Concen: 0.572 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086187.D

Acq: 31 Mar 2025 22:17

Instrument :

MSVOA_N

ClientSampleId :

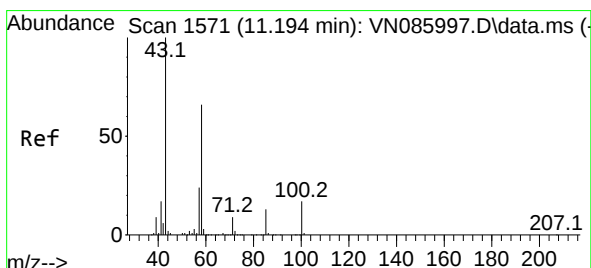
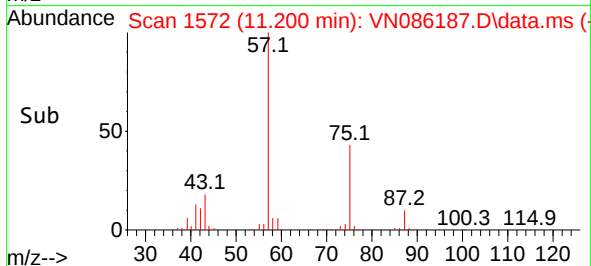
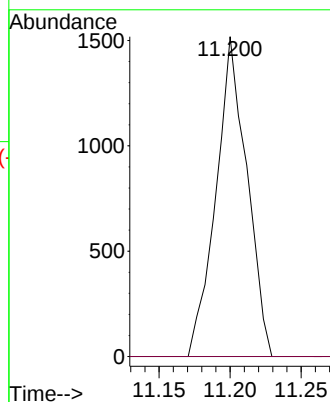
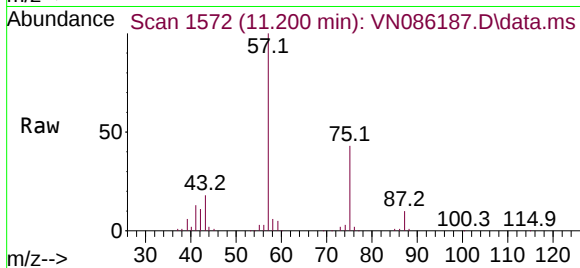
TP-9

Tgt Ion: 76 Resp: 2300

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 19.389 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086187.D

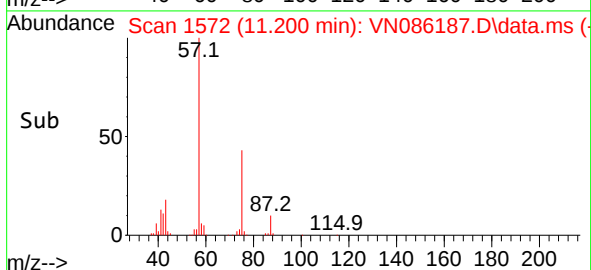
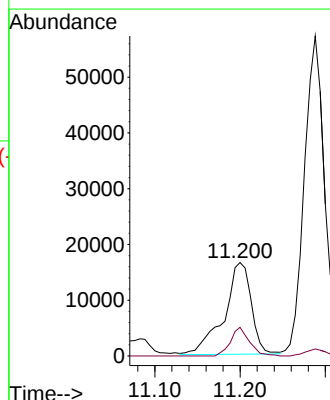
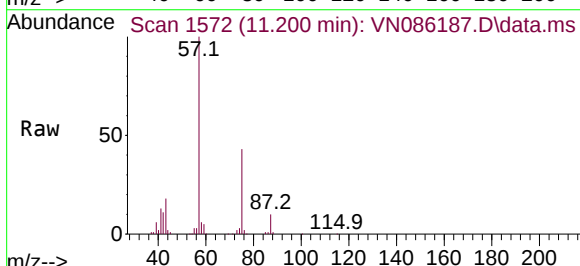
Acq: 31 Mar 2025 22:17

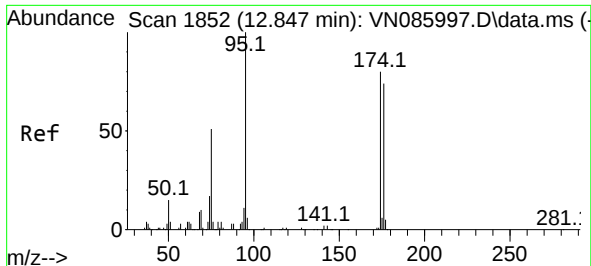
Tgt Ion: 43 Resp: 36649

Ion Ratio Lower Upper

43 100

58 21.6 32.4 97.2#

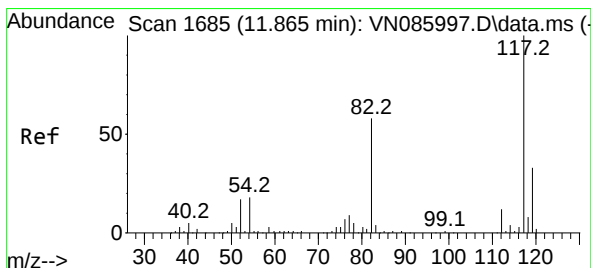
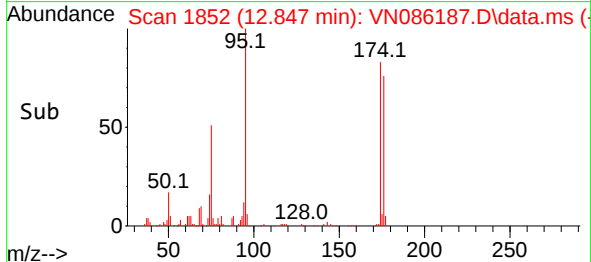
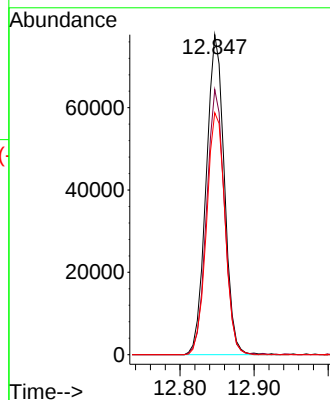
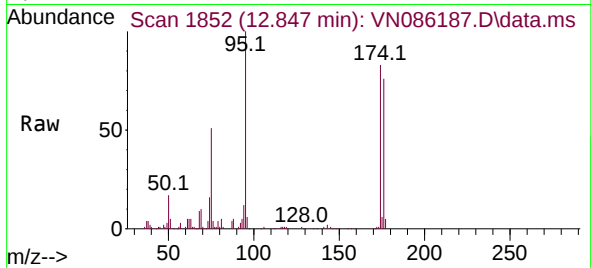




#62
4-Bromofluorobenzene
Concen: 41.767 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

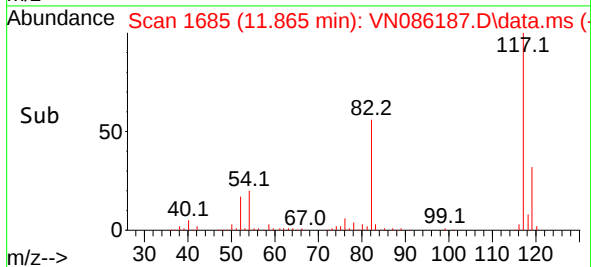
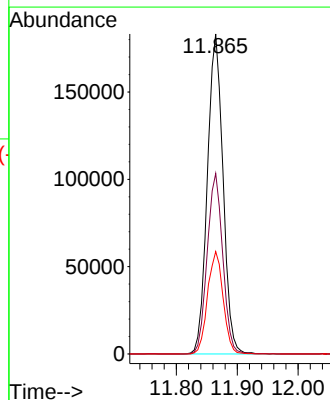
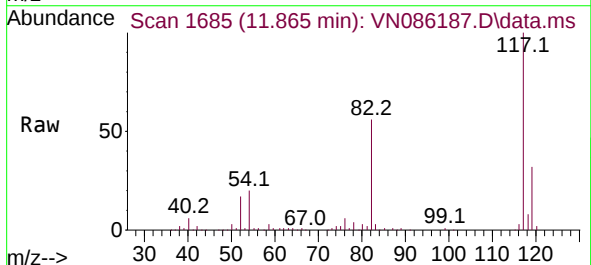
Instrument :
MSVOA_N
ClientSampleId :
TP-9

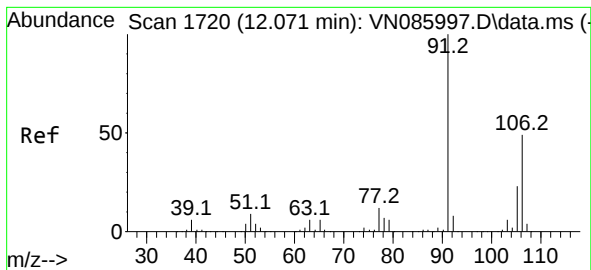
Tgt Ion: 95 Resp: 132122
Ion Ratio Lower Upper
95 100
174 81.6 0.0 156.8
176 76.9 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

Tgt Ion: 117 Resp: 327005
Ion Ratio Lower Upper
117 100
82 56.4 46.7 70.1
119 32.0 26.5 39.7

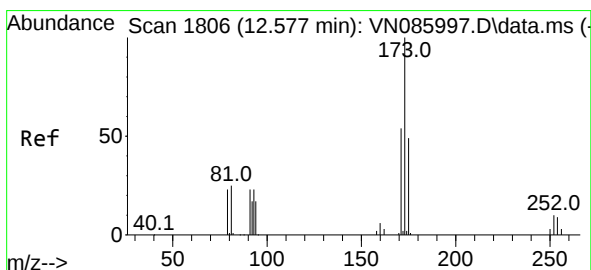
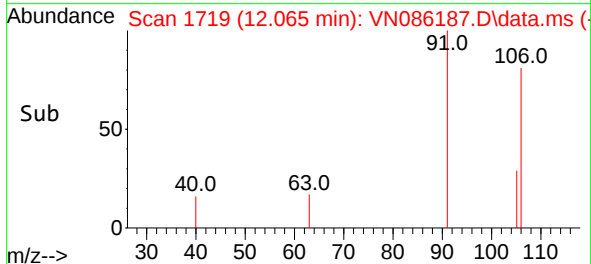
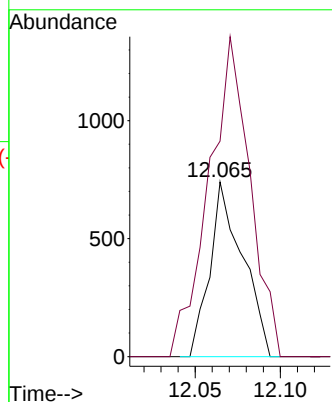
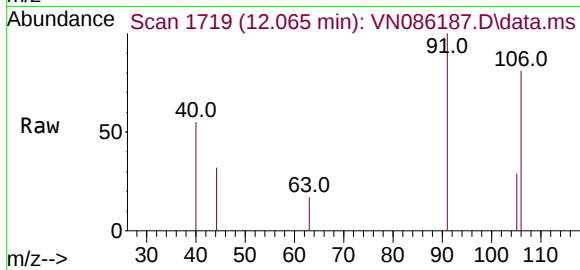




#68
m/p-Xylenes
Concen: 0.211 ug/l
RT: 12.065 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

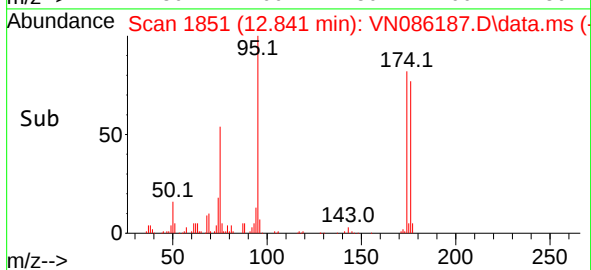
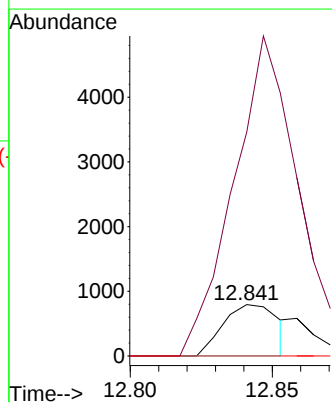
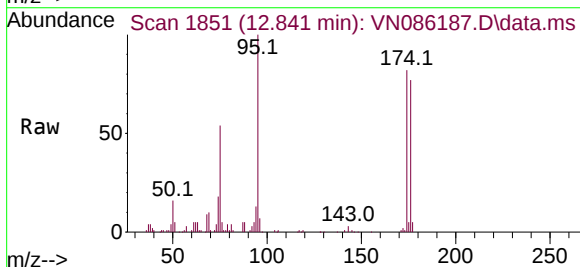
Instrument :
MSVOA_N
ClientSampleId :
TP-9

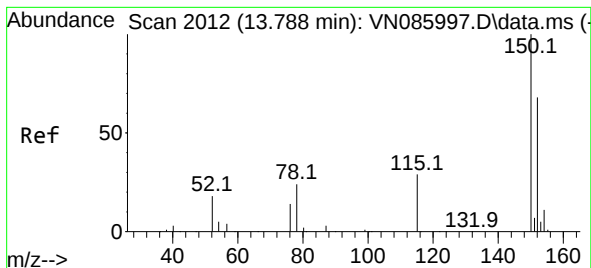
Tgt Ion:106 Resp: 991
Ion Ratio Lower Upper
106 100
91 230.1 163.9 245.9



#71
Bromoform
Concen: 0.461 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.264 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

Tgt Ion:173 Resp: 1072
Ion Ratio Lower Upper
173 100
175 552.3 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086187.D

Acq: 31 Mar 2025 22:17

Instrument :

MSVOA_N

ClientSampleId :

TP-9

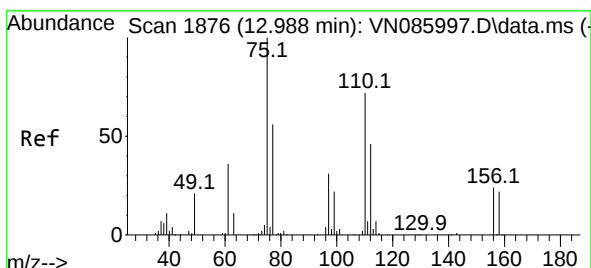
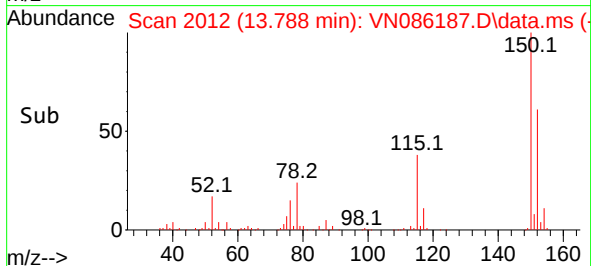
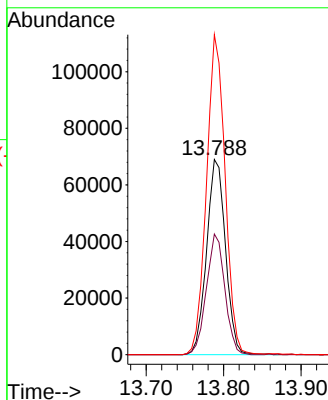
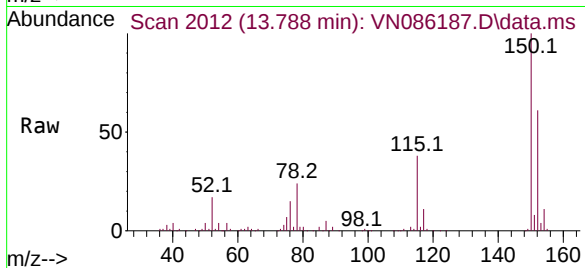
Tgt Ion:152 Resp: 117280

Ion Ratio Lower Upper

152 100

115 60.3 31.1 93.2

150 161.1 0.0 359.6



#76

1,2,3-Trichloropropane

Concen: 25.245 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086187.D

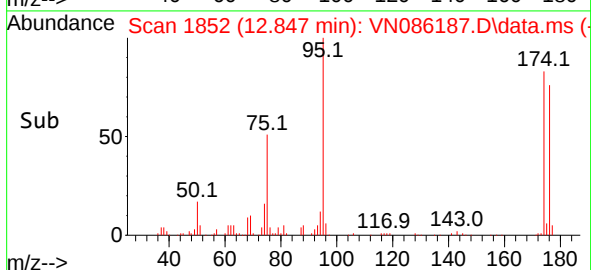
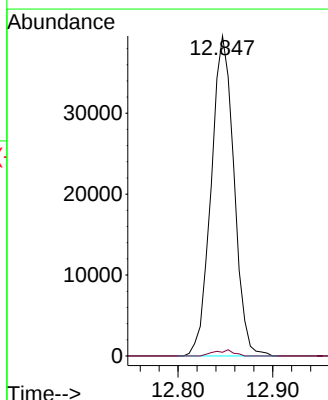
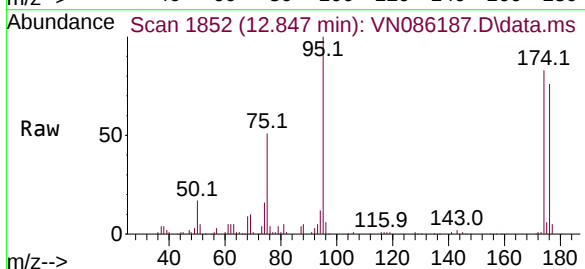
Acq: 31 Mar 2025 22:17

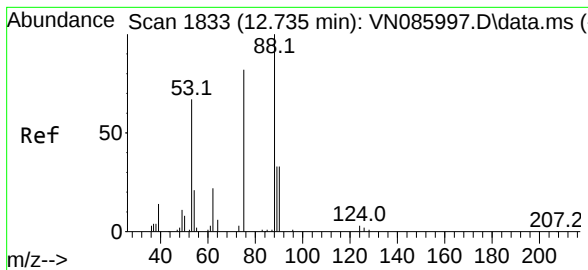
Tgt Ion: 75 Resp: 66284

Ion Ratio Lower Upper

75 100

77 1.6 83.7 251.0#





#81
trans-1,4-Dichloro-2-butene
Concen: 66.742 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086187.D
Acq: 31 Mar 2025 22:17

Instrument :
MSVOA_N
ClientSampleId :
TP-9

Tgt Ion:	75	Resp:	66284
Ion	Ratio	Lower	Upper
75	100		
53	0.2	66.0	99.0#
89	0.0	36.9	55.3#

