

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085458.D
 Acq On : 15 Jan 2025 13:49
 Operator : JC\MD
 Sample : PB166029ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 16 00:58:04 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)

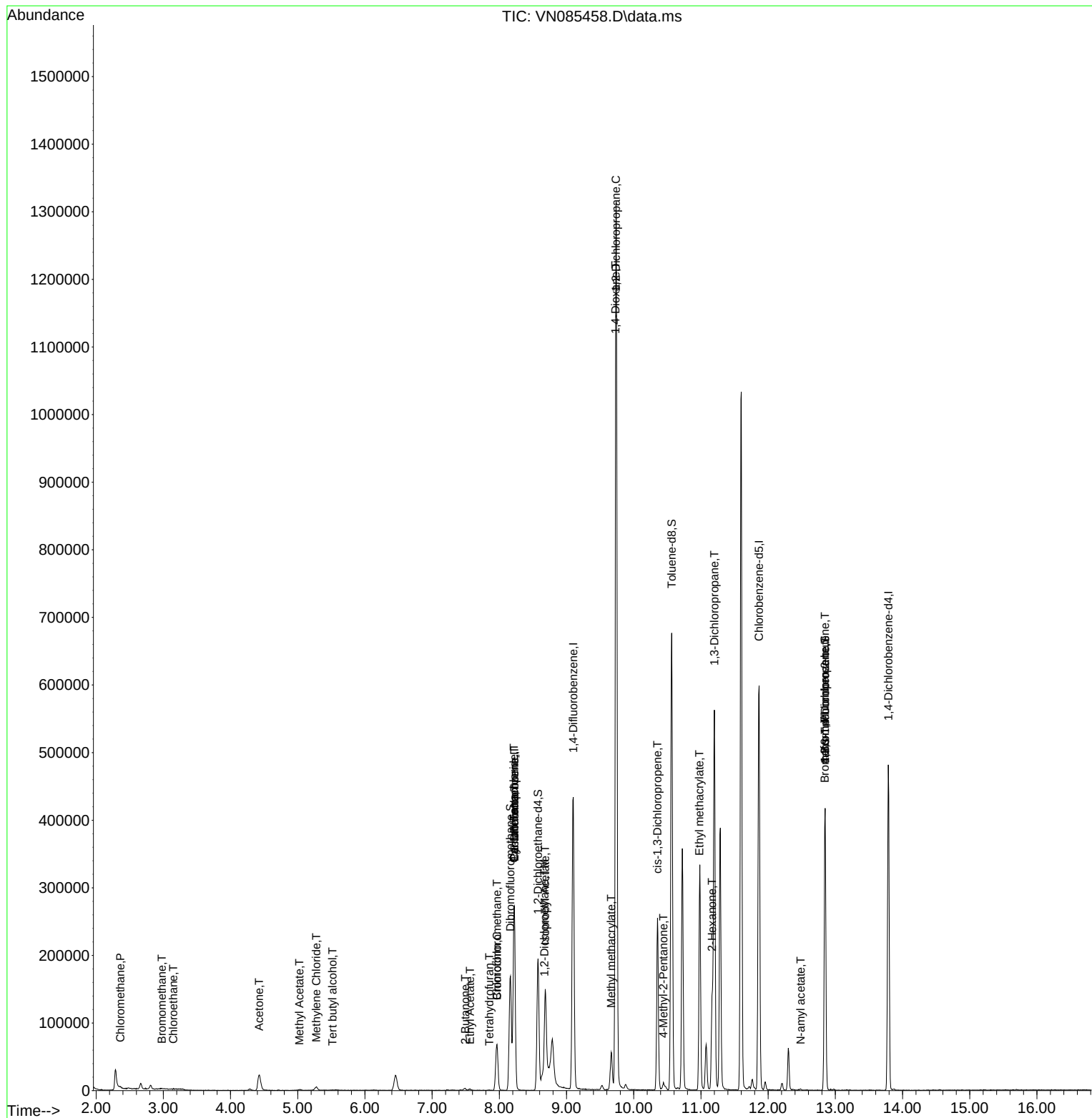
Internal Standards						
1) Pentafluorobenzene	8.224	168	185364	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	356019	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	327610	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	123822	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	163676	54.702	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.400%			
35) Dibromofluoromethane	8.165	113	120104	48.627	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.260%			
50) Toluene-d8	10.565	98	449038	51.170	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.340%			
62) 4-Bromofluorobenzene	12.847	95	137929	45.948	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.900%			
Target Compounds						Qvalue
3) Chloromethane	2.360	50	788	0.290	ug/l #	41
5) Bromomethane	2.977	94	429	0.260	ug/l	87
6) Chloroethane	3.148	64	559	0.323	ug/l #	44
11) Tert butyl alcohol	5.518	59	445	1.299	ug/l #	71
16) Acetone	4.424	43	45225	46.778	ug/l	92
18) Methyl Acetate	5.024	43	2387	0.812	ug/l #	83
20) Methylene Chloride	5.277	84	3719	1.554	ug/l	95
25) 2-Butanone	7.494	43	5033	3.538	ug/l	98
28) Bromochloromethane	7.965	49	5728	2.818	ug/l #	18
29) Tetrahydrofuran	7.853	42	318	0.353	ug/l #	34
30) Chloroform	7.965	83	66116	14.642	ug/l	98
31) Cyclohexane	8.224	56	5196	1.368	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	18021	5.199	ug/l #	49
37) Ethyl Acetate	7.565	43	3482	0.995	ug/l #	80
38) Carbon Tetrachloride	8.218	117	20693	5.214	ug/l #	17
42) 1,2-Dichloroethane	8.671	62	1024	0.261	ug/l #	76
43) Isopropyl Acetate	8.683	43	197284	35.189	ug/l #	80
45) 1,2-Dichloropropane	9.735	63	1516	0.570	ug/l #	43
48) Methyl methacrylate	9.665	41	3974	1.575	ug/l #	47
49) 1,4-Dioxane	9.730	88	120	2.824	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	6736	2.070	ug/l	100
54) cis-1,3-Dichloropropene	10.353	75	40798	10.334	ug/l #	71
56) Ethyl methacrylate	10.977	69	1841	2.371	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5727	1.379	ug/l #	43
59) 2-Hexanone	11.165	43	106592	46.564	ug/l #	26
71) Bromoform	12.841	173	940	0.499	ug/l #	1
74) N-amyl acetate	12.482	43	1678	0.447	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	78286	31.106	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	78286	84.161	ug/l #	3

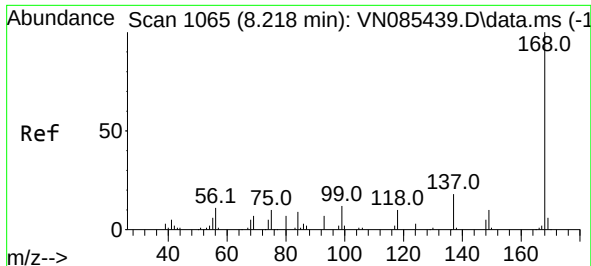
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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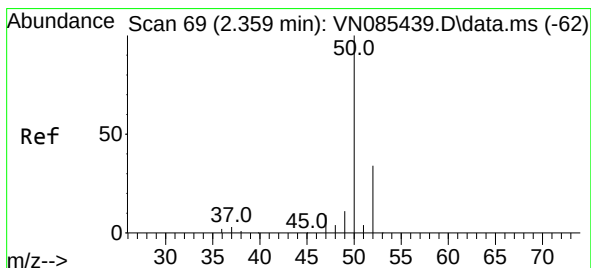
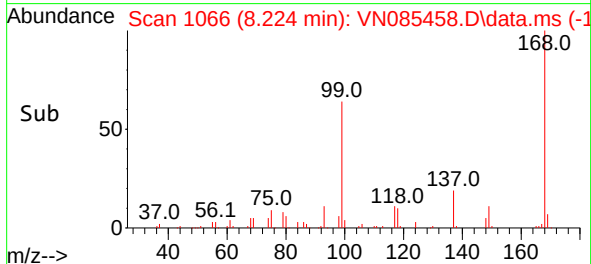
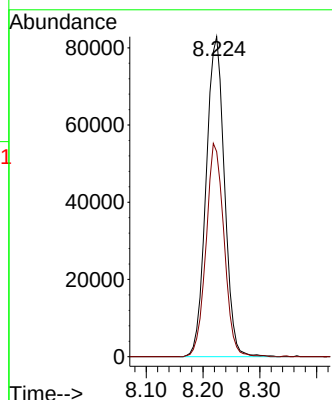
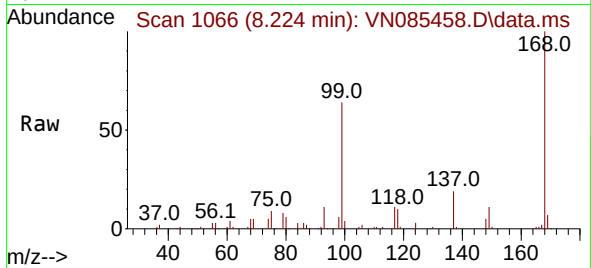




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

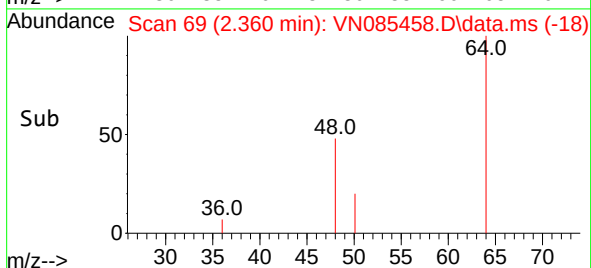
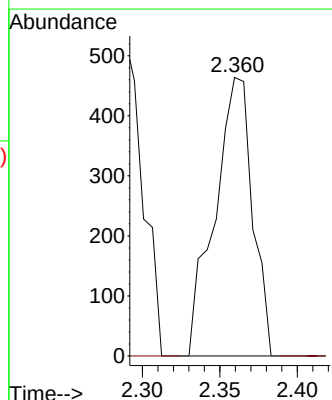
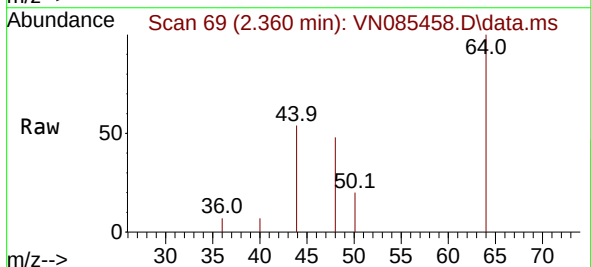
Instrument :
MSVOA_N
ClientSampleId :

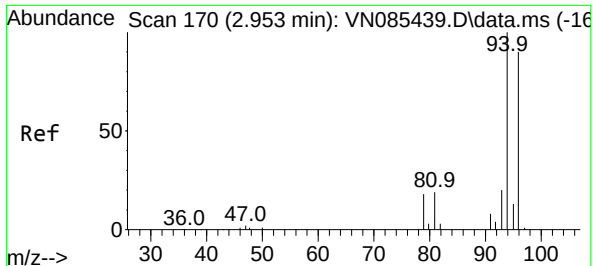
Tgt Ion:168 Resp: 185364
Ion Ratio Lower Upper
168 100
99 64.0 53.6 80.4



#3
Chloromethane
Concen: 0.290 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

Tgt Ion: 50 Resp: 788
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.6#

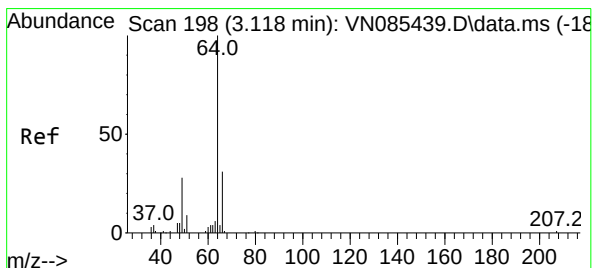
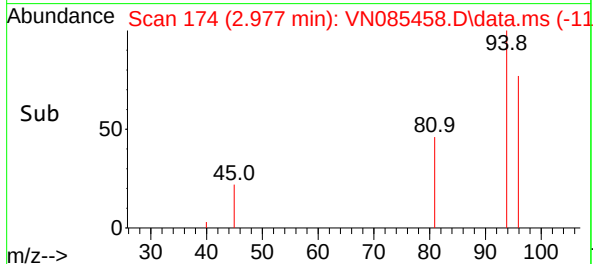
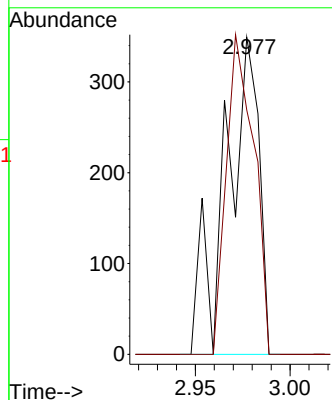
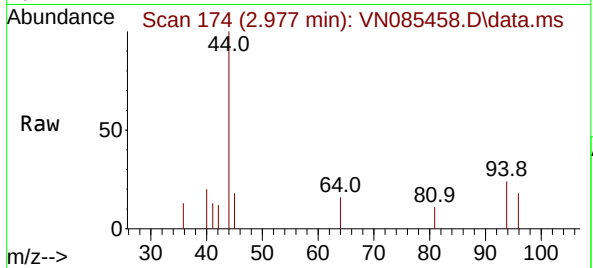




#5
Bromomethane
Concen: 0.260 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

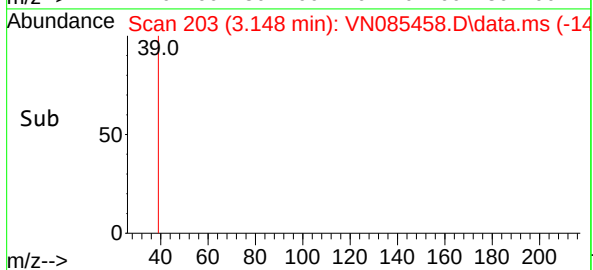
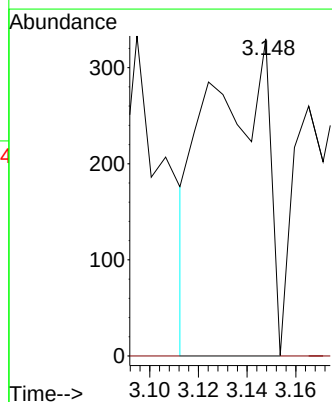
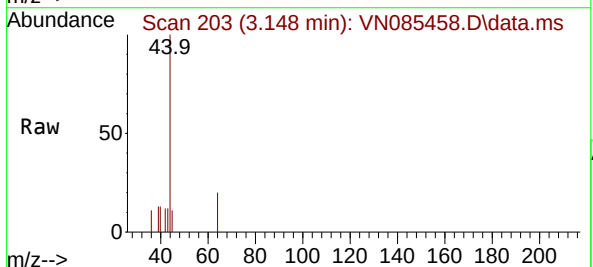
Instrument :
MSVOA_N
ClientSampleId :

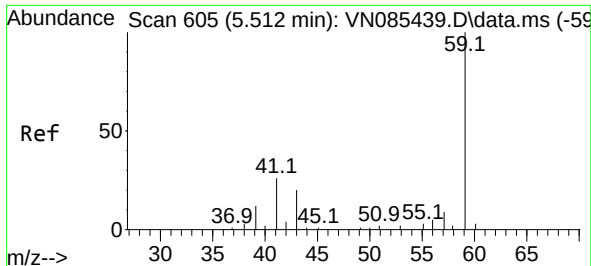
Tgt Ion: 94 Resp: 429
Ion Ratio Lower Upper
94 100
96 77.1 71.8 107.6



#6
Chloroethane
Concen: 0.323 ug/l
RT: 3.148 min Scan# 203
Delta R.T. 0.029 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

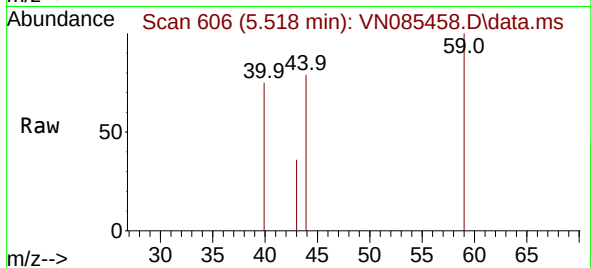
Tgt Ion: 64 Resp: 559
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



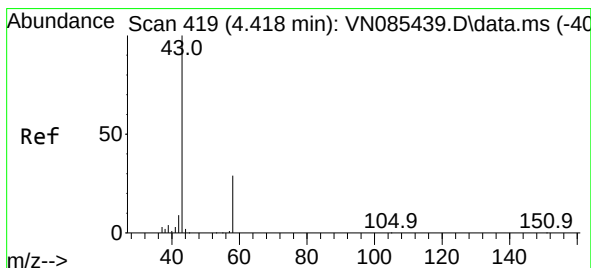
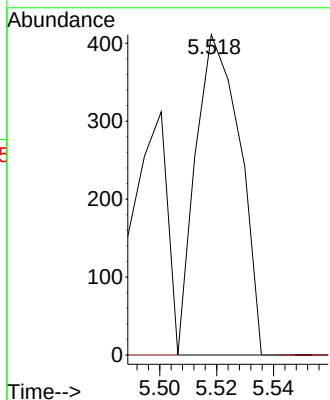
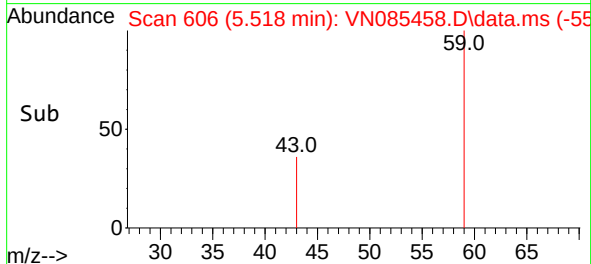


#11
Tert butyl alcohol
Concen: 1.299 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

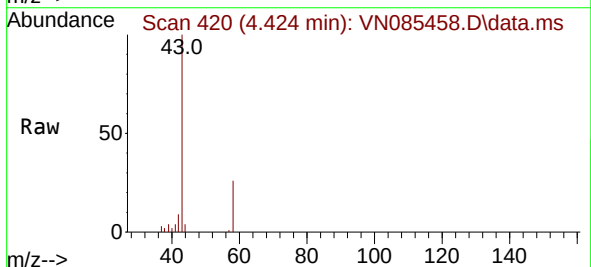
Instrument :
MSVOA_N
ClientSampleId :



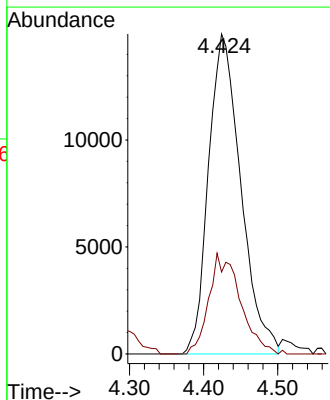
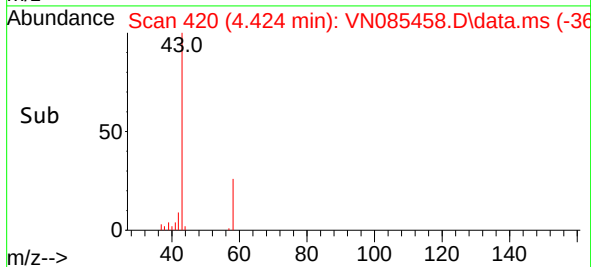
Tgt Ion: 59 Resp: 445
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

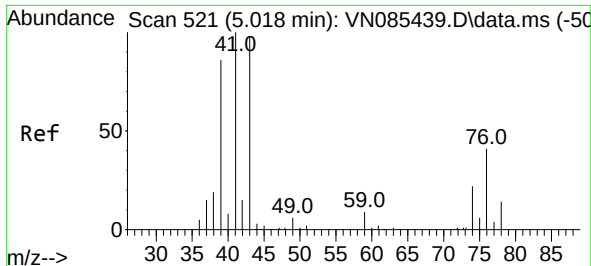


#16
Acetone
Concen: 46.778 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49



Tgt Ion: 43 Resp: 45225
Ion Ratio Lower Upper
43 100
58 25.6 23.8 35.6





#18

Methyl Acetate

Concen: 0.812 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN085458.D

Acq: 15 Jan 2025 13:49

Instrument :

MSVOA_N

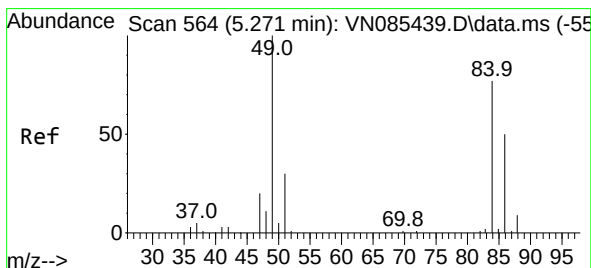
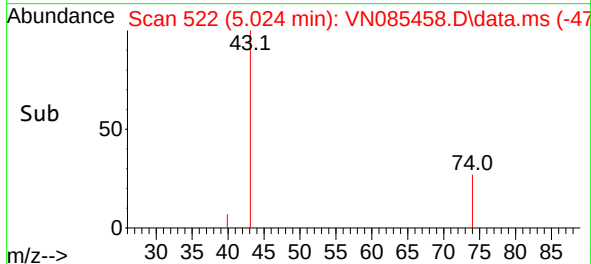
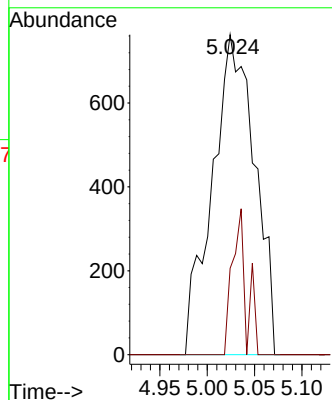
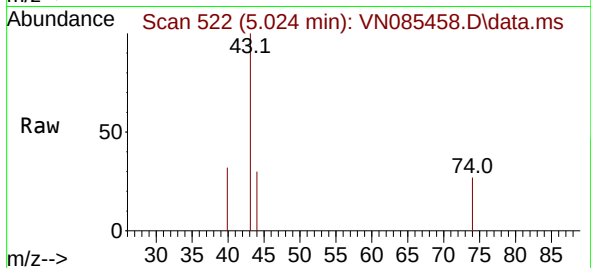
ClientSampleId :

Tgt Ion: 43 Resp: 2387

Ion Ratio Lower Upper

43 100

74 15.0 18.6 28.0#



#20

Methylene Chloride

Concen: 1.554 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085458.D

Acq: 15 Jan 2025 13:49

Tgt Ion: 84 Resp: 3719

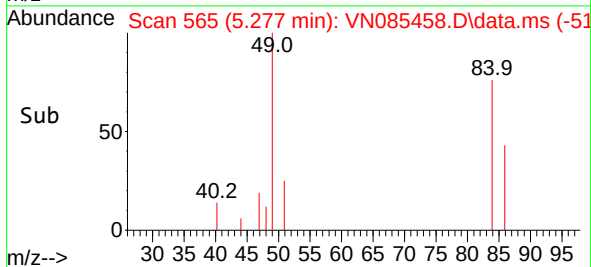
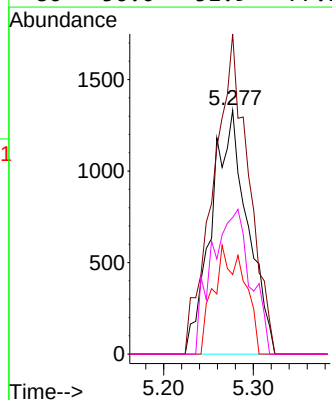
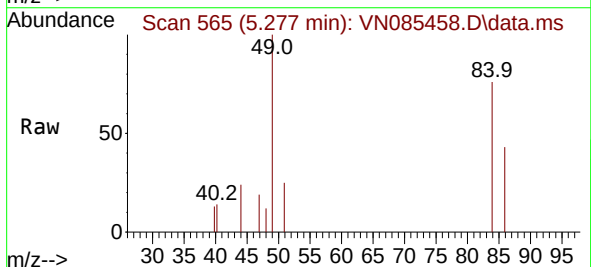
Ion Ratio Lower Upper

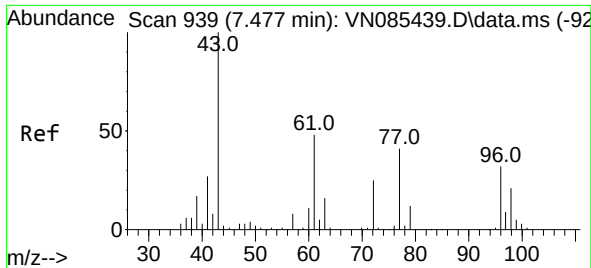
84 100

49 131.3 104.1 156.1

51 32.6 31.0 46.4

86 56.0 51.9 77.9

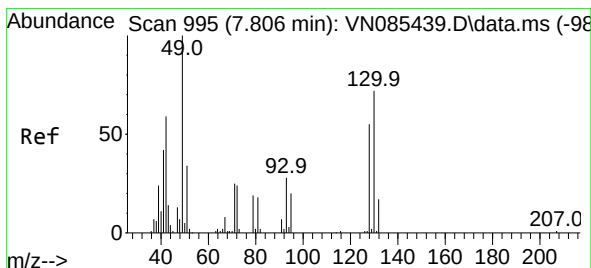
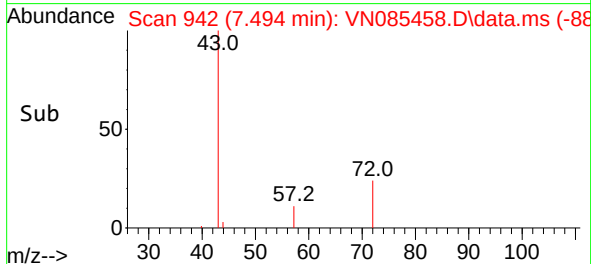
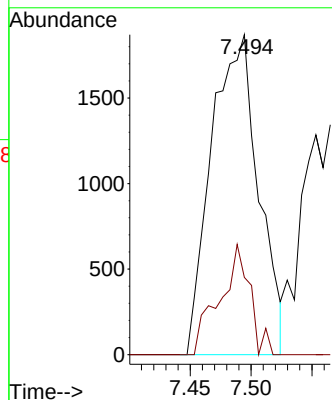
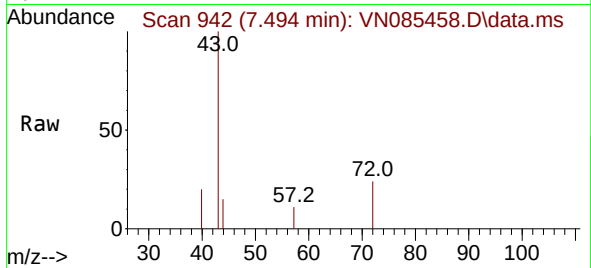




#25
2-Butanone
Concen: 3.538 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.018 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

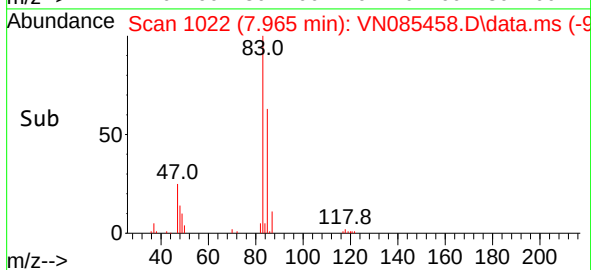
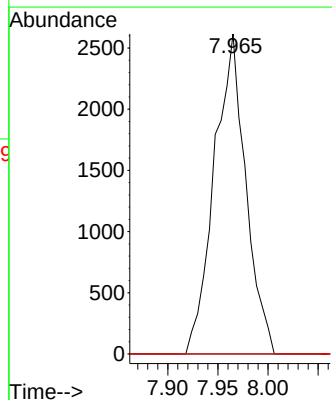
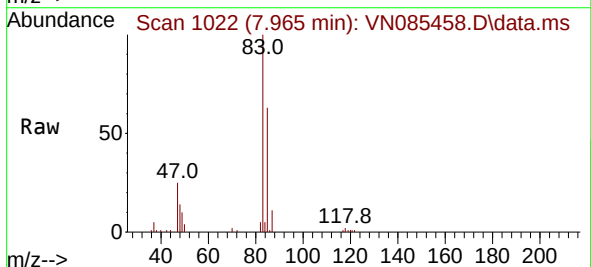
Instrument :
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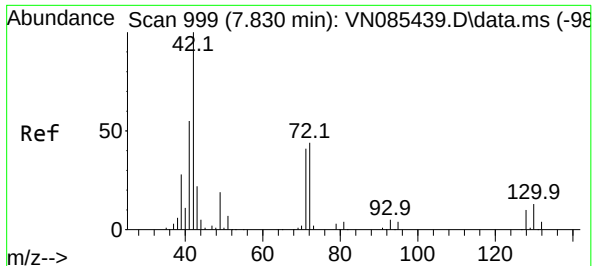
Tgt Ion: 43 Resp: 5033
Ion Ratio Lower Upper
43 100
72 24.2 20.2 30.4



#28
Bromochloromethane
Concen: 2.818 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.159 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

Tgt Ion: 49 Resp: 5728
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.4
130 0.0 55.0 82.4#





#29

Tetrahydrofuran

Concen: 0.353 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.024 min

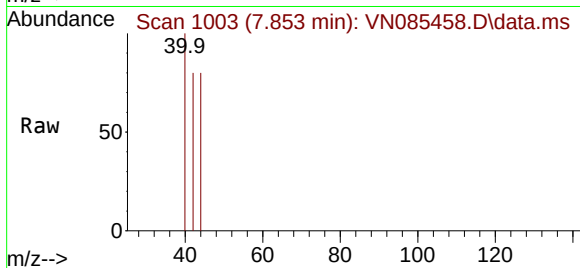
Lab File: VN085458.D

Acq: 15 Jan 2025 13:49

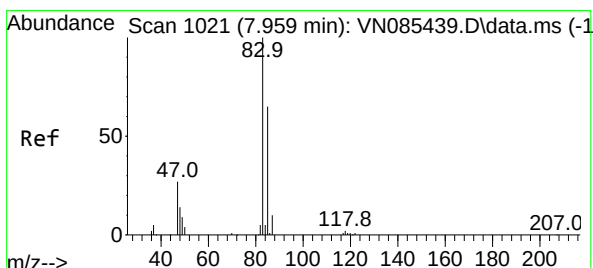
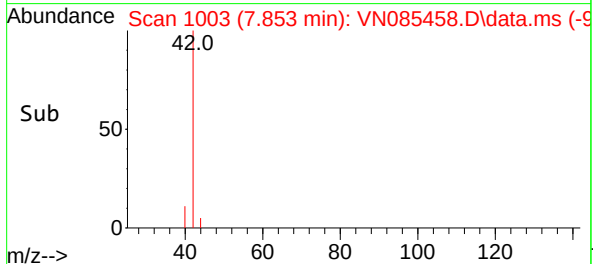
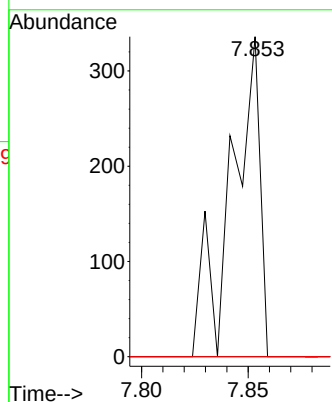
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	318
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.2	51.2#
71	0.0	32.5	48.7#



#30

Chloroform

Concen: 14.642 ug/l

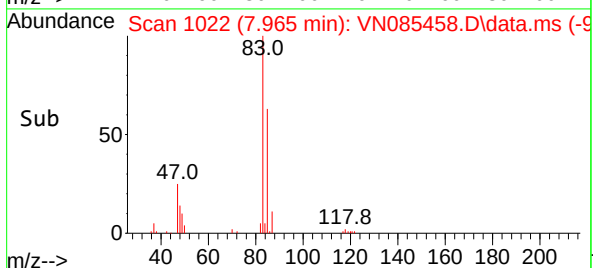
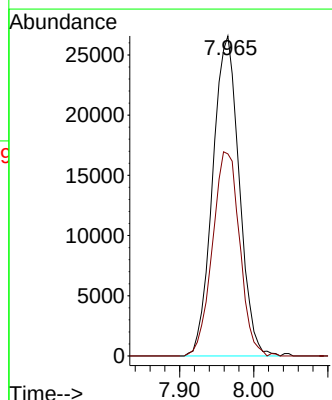
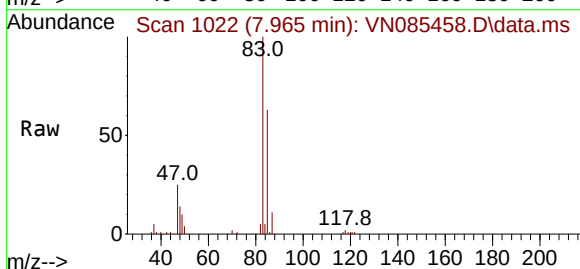
RT: 7.965 min Scan# 1022

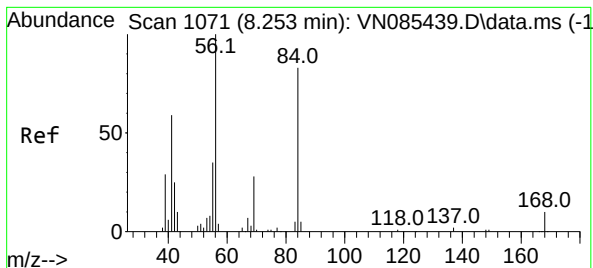
Delta R.T. 0.006 min

Lab File: VN085458.D

Acq: 15 Jan 2025 13:49

Tgt Ion:	83	Resp:	66116
Ion	Ratio	Lower	Upper
83	100		
85	63.2	51.8	77.6





#31

Cyclohexane

Concen: 1.368 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

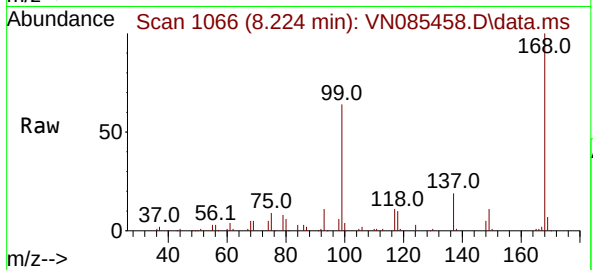
Lab File: VN085458.D

Acq: 15 Jan 2025 13:49

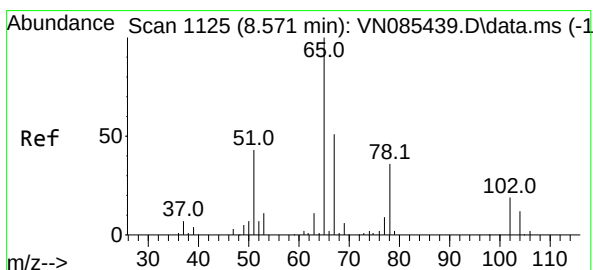
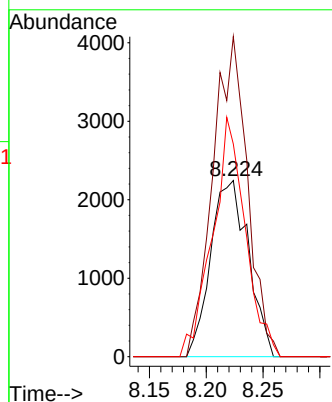
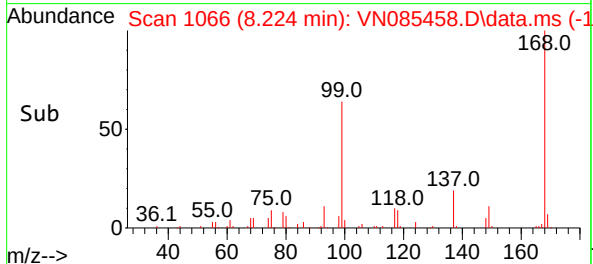
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	56	Resp:	5196
Ion	Ratio	Lower	Upper
56	100		
69	181.6	22.2	33.4#
84	120.7	66.4	99.6#



#33

1,2-Dichloroethane-d4

Concen: 54.702 ug/l

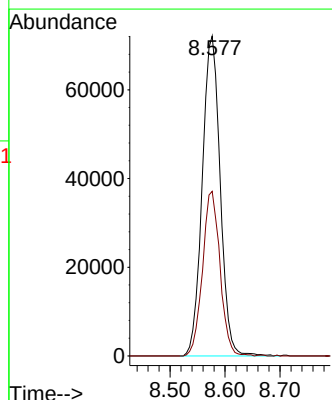
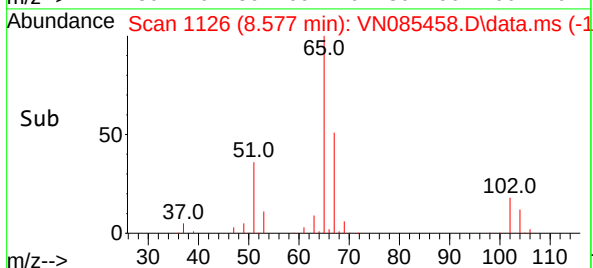
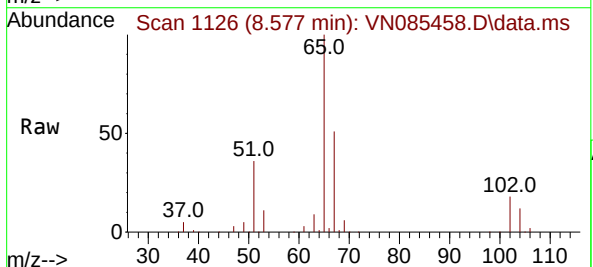
RT: 8.577 min Scan# 1126

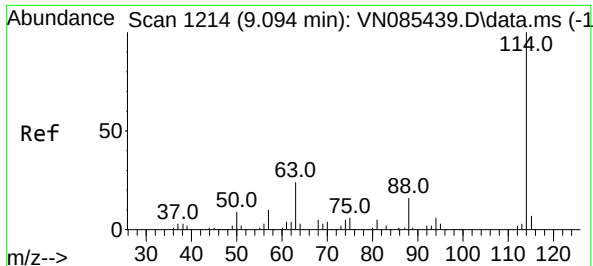
Delta R.T. 0.006 min

Lab File: VN085458.D

Acq: 15 Jan 2025 13:49

Tgt Ion:	65	Resp:	163676
Ion	Ratio	Lower	Upper
65	100		
67	50.1	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: VN085458.D

Acq: 15 Jan 2025 13:49

Instrument :

MSVOA_N

ClientSampleId :

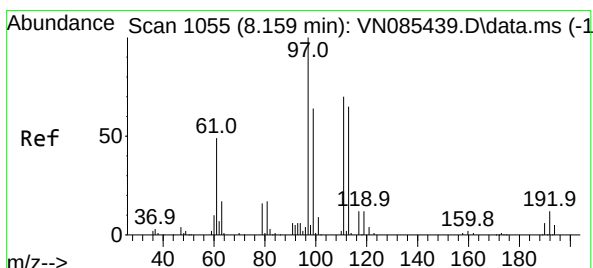
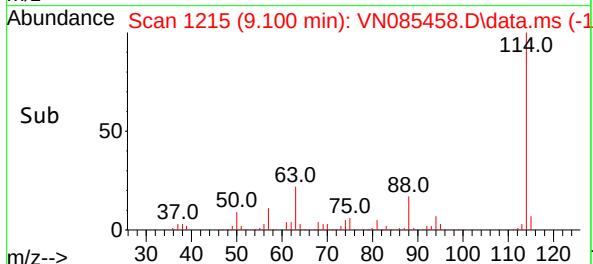
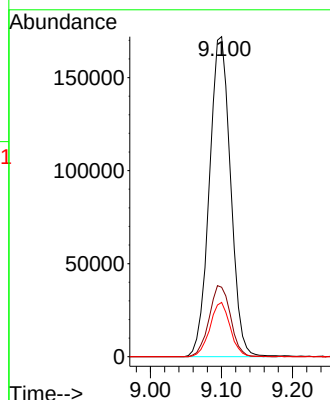
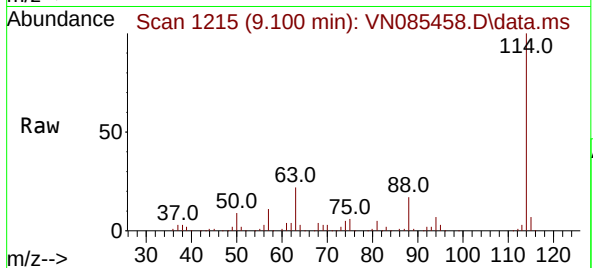
Tgt Ion:114 Resp: 356019

Ion Ratio Lower Upper

114 100

63 21.7 0.0 47.6

88 16.9 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.627 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085458.D

Acq: 15 Jan 2025 13:49

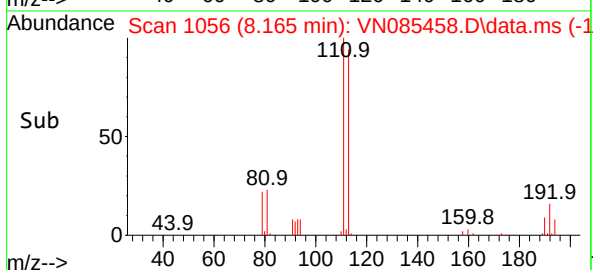
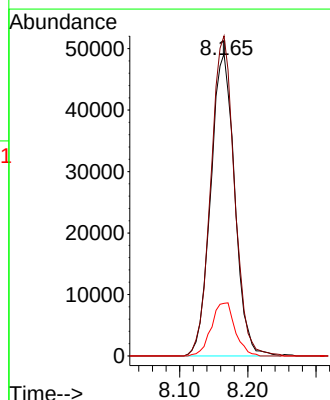
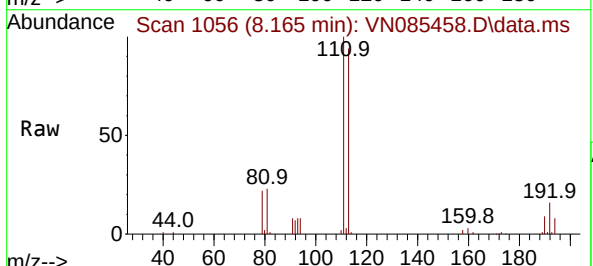
Tgt Ion:113 Resp: 120104

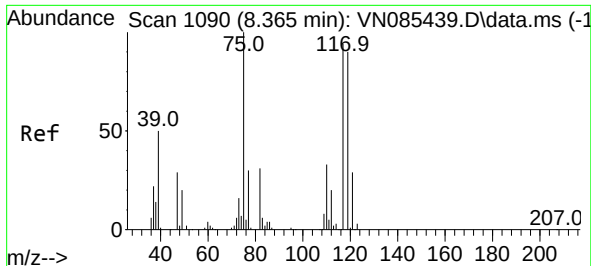
Ion Ratio Lower Upper

113 100

111 104.4 82.7 124.1

192 17.4 14.3 21.5





#36

1,1-Dichloropropene

Concen: 5.199 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

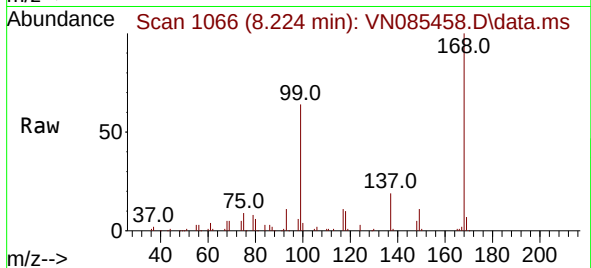
Lab File: VN085458.D

Acq: 15 Jan 2025 13:49

Instrument :

MSVOA_N

ClientSampleId :



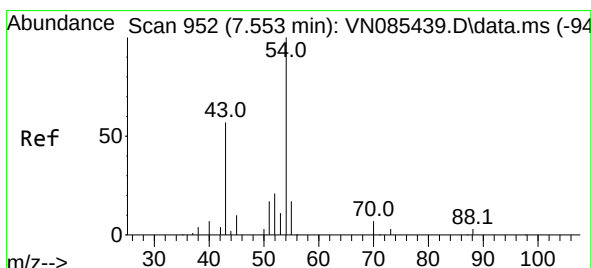
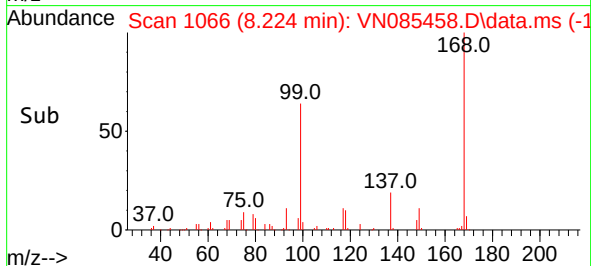
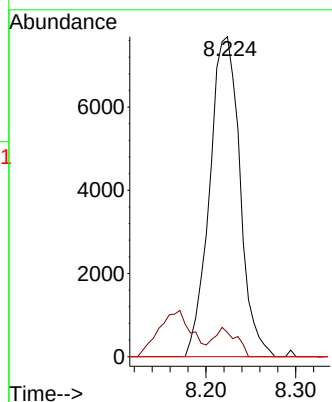
Tgt Ion: 75 Resp: 18021

Ion Ratio Lower Upper

75 100

110 6.7 16.5 49.5#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 0.995 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.012 min

Lab File: VN085458.D

Acq: 15 Jan 2025 13:49

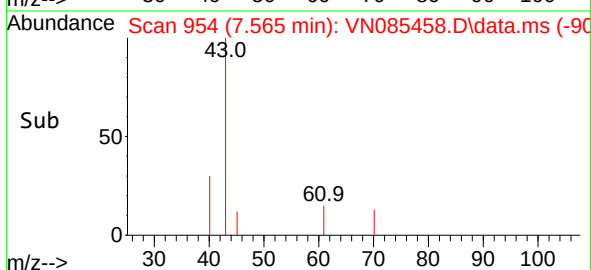
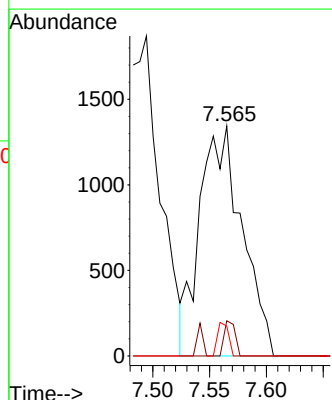
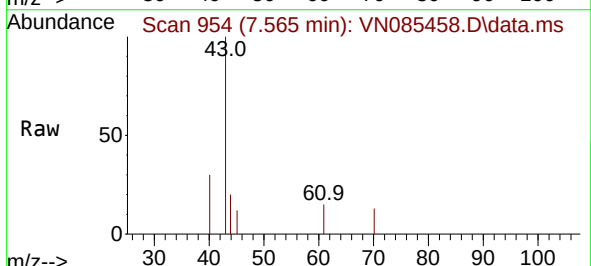
Tgt Ion: 43 Resp: 3482

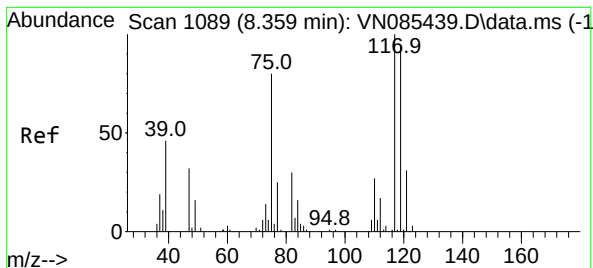
Ion Ratio Lower Upper

43 100

61 4.0 10.9 16.3#

70 3.8 7.5 11.3#





#38

Carbon Tetrachloride

Concen: 5.214 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

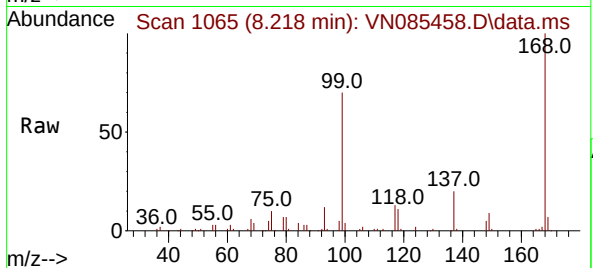
Lab File: VN085458.D

Acq: 15 Jan 2025 13:49

Instrument :

MSVOA_N

ClientSampleId :



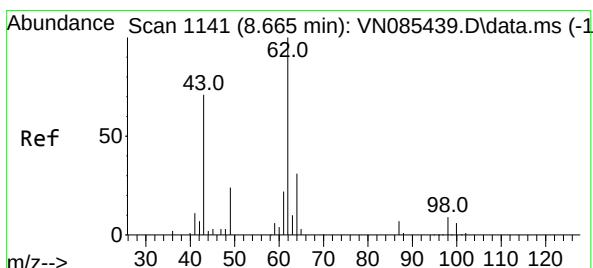
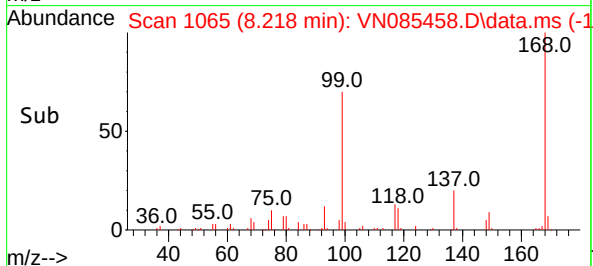
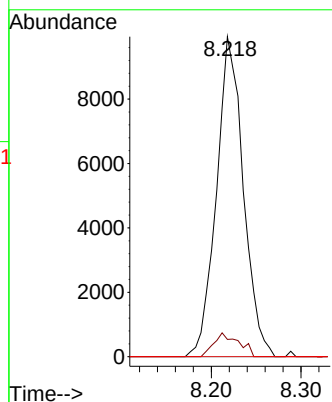
Tgt Ion:117 Resp: 20693

Ion Ratio Lower Upper

117 100

119 5.4 75.4 113.2#

121 0.0 24.6 37.0#



#42

1,2-Dichloroethane

Concen: 0.261 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN085458.D

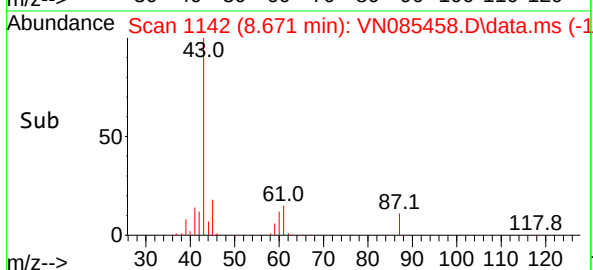
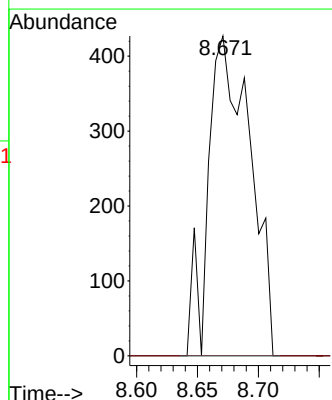
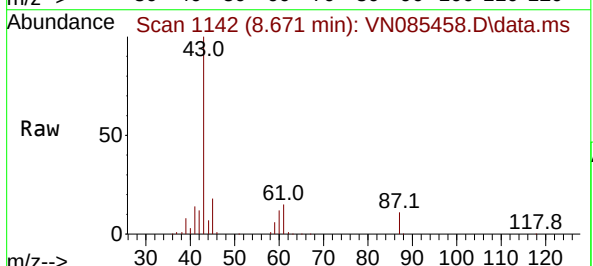
Acq: 15 Jan 2025 13:49

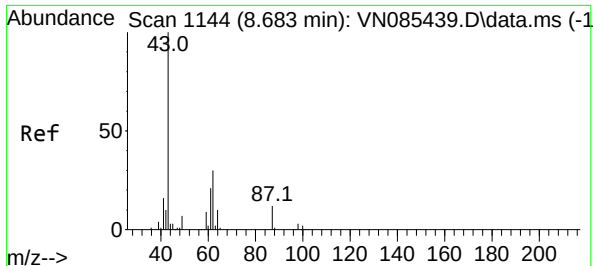
Tgt Ion: 62 Resp: 1024

Ion Ratio Lower Upper

62 100

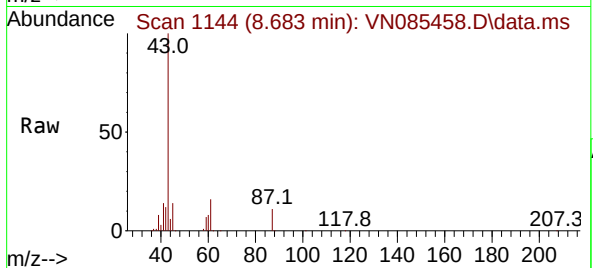
98 0.0 0.0 17.0



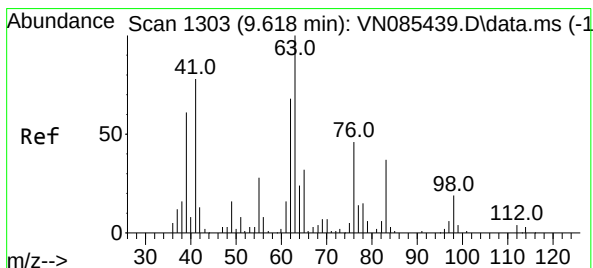
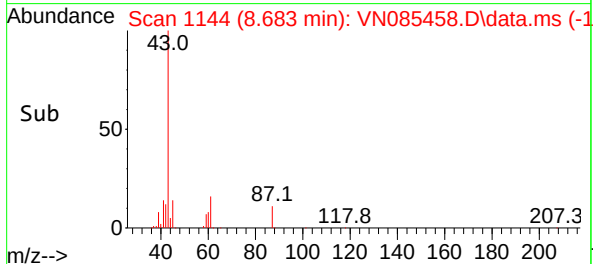
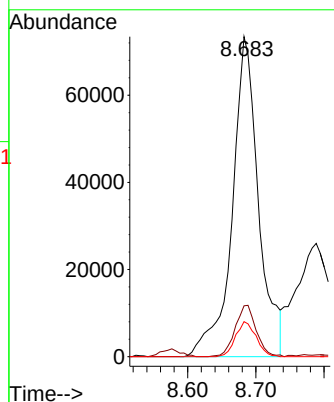


#43
Isopropyl Acetate
Concen: 35.189 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.000 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

Instrument :
MSVOA_N
ClientSampleId :

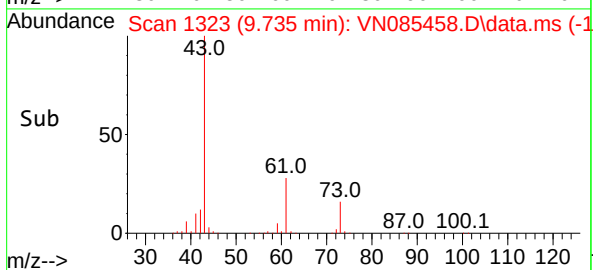
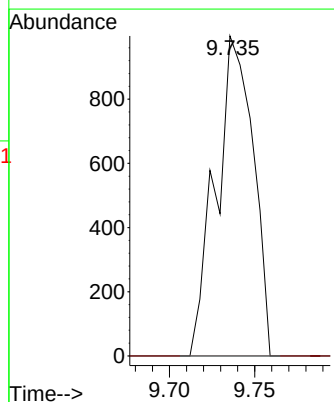
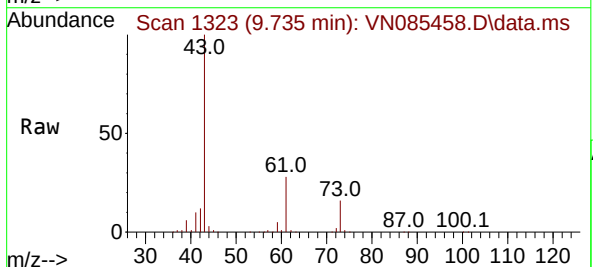


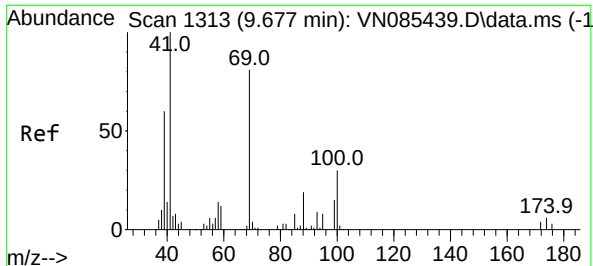
Tgt Ion: 43 Resp: 197284
Ion Ratio Lower Upper
43 100
61 12.9 20.7 31.1#
87 8.5 9.8 14.8#



#45
1,2-Dichloropropane
Concen: 0.570 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

Tgt Ion: 63 Resp: 1516
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#

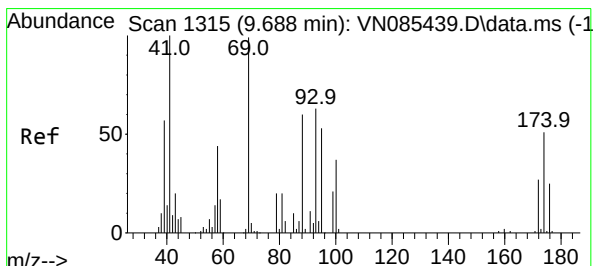
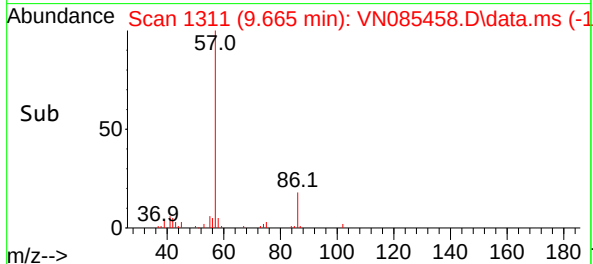
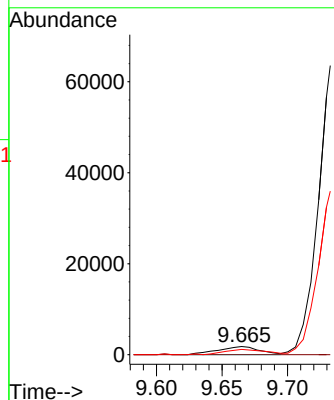
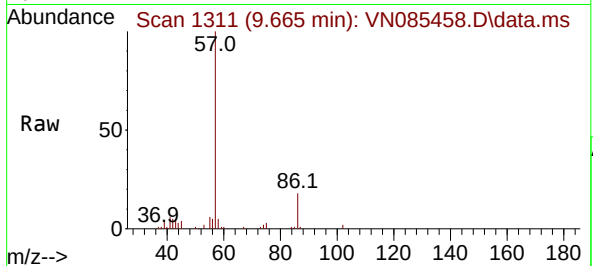




#48
Methyl methacrylate
Concen: 1.575 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.012 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

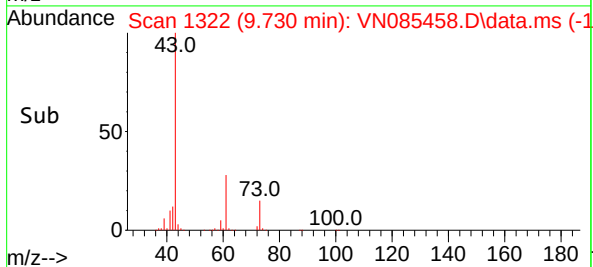
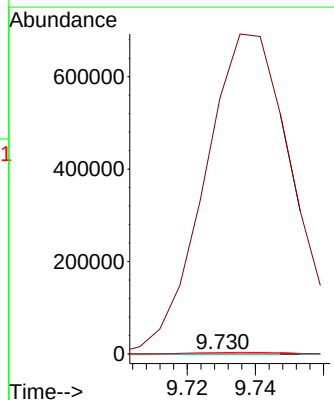
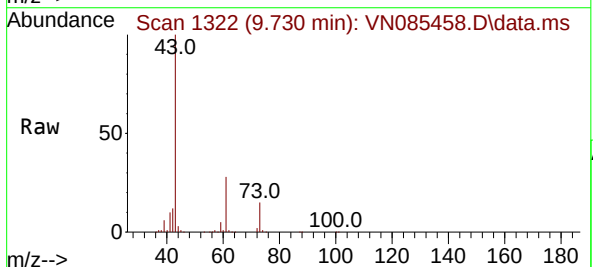
Instrument :
MSVOA_N
ClientSampleId :

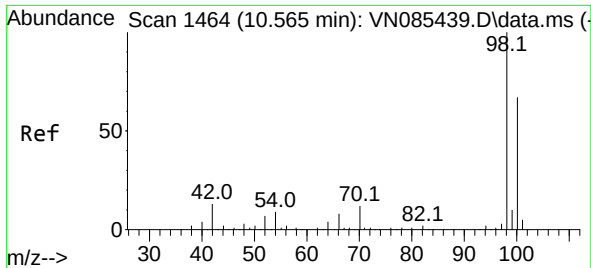
Tgt Ion: 41 Resp: 3974
Ion Ratio Lower Upper
41 100
69 0.0 64.7 97.1#
39 63.9 49.0 73.6



#49
1,4-Dioxane
Concen: 2.824 ug/l
RT: 9.730 min Scan# 1322
Delta R.T. 0.041 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

Tgt Ion: 88 Resp: 120
Ion Ratio Lower Upper
88 100
43 1052378.3 26.6 39.8#
58 5612.5 59.5 89.3#

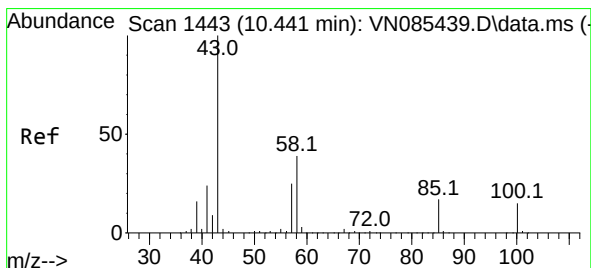
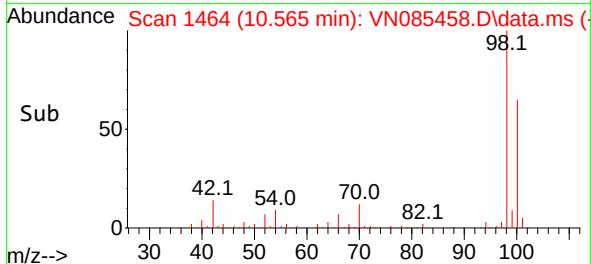
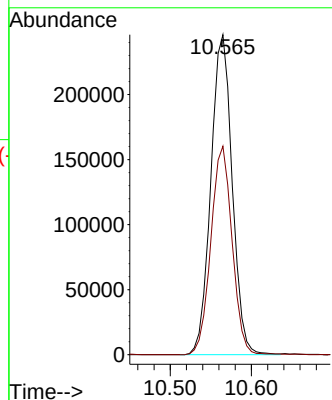
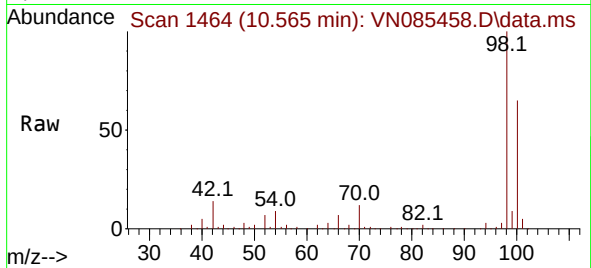




#50
Toluene-d8
Concen: 51.170 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

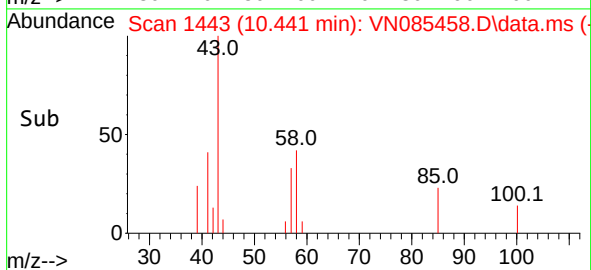
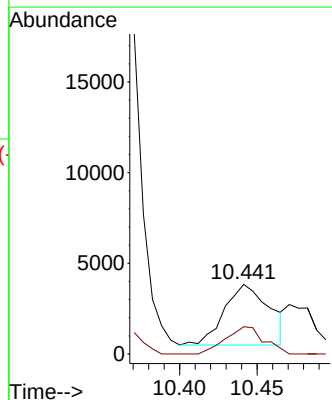
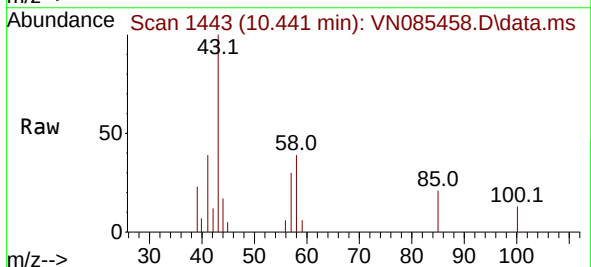
Instrument :
MSVOA_N
ClientSampleId :

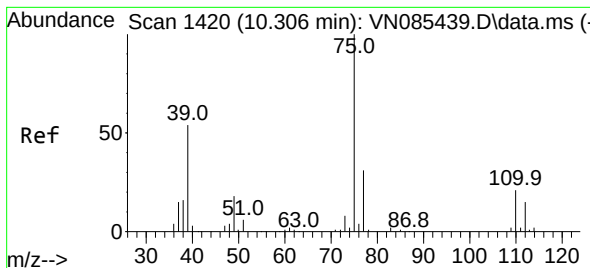
Tgt Ion: 98 Resp: 449038
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 2.070 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

Tgt Ion: 43 Resp: 6736
Ion Ratio Lower Upper
43 100
58 38.2 30.5 45.7

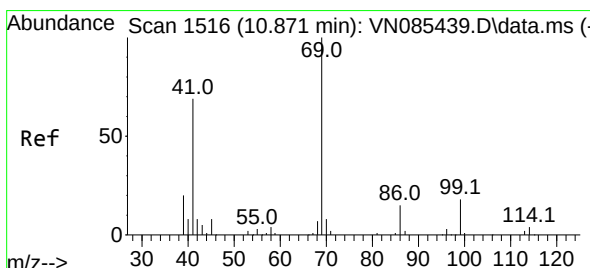
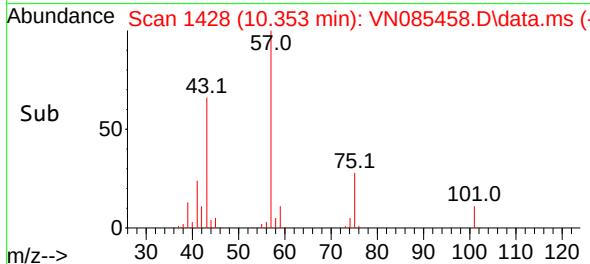
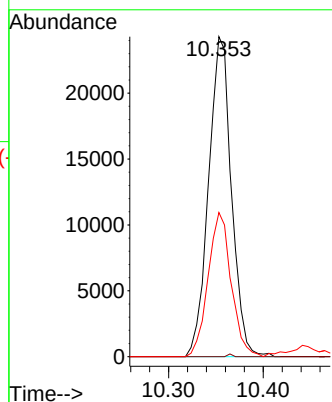
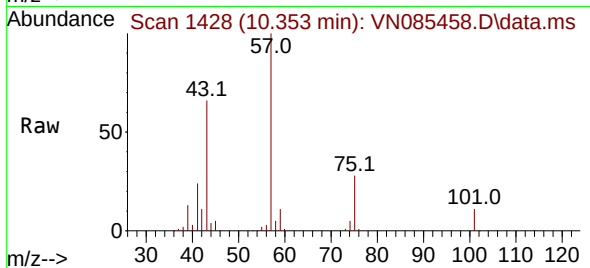




#54
 cis-1,3-Dichloropropene
 Concen: 10.334 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085458.D
 Acq: 15 Jan 2025 13:49

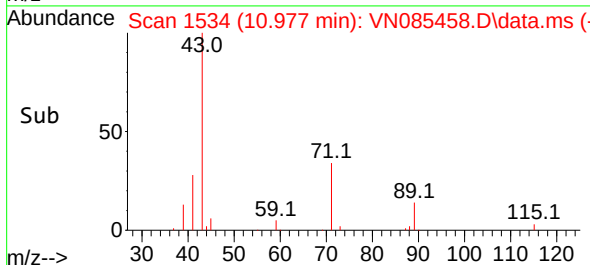
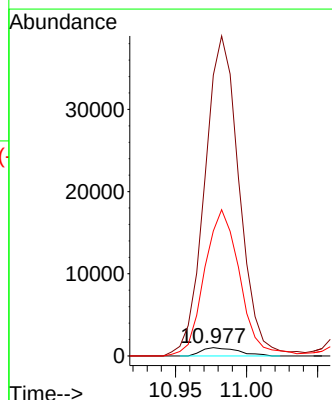
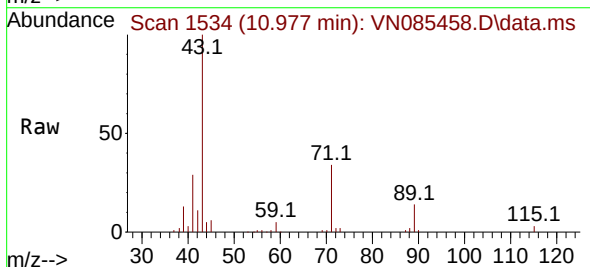
Instrument :
 MSVOA_N
 ClientSampleId :

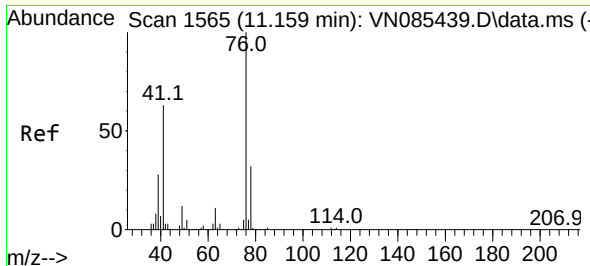
Tgt Ion: 75 Resp: 40798
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 45.1 43.1 64.7



#56
 Ethyl methacrylate
 Concen: 2.371 ug/l
 RT: 10.977 min Scan# 1534
 Delta R.T. 0.106 min
 Lab File: VN085458.D
 Acq: 15 Jan 2025 13:49

Tgt Ion: 69 Resp: 1841
 Ion Ratio Lower Upper
 69 100
 41 3587.9 54.6 82.0#
 39 1679.4 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.379 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085458.D

Acq: 15 Jan 2025 13:49

Instrument :

MSVOA_N

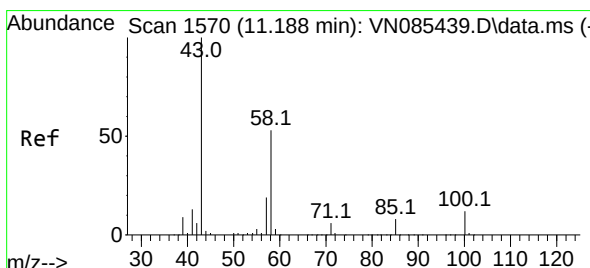
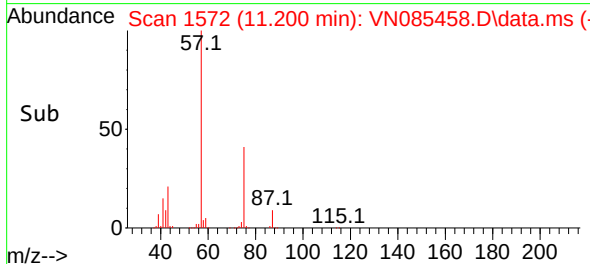
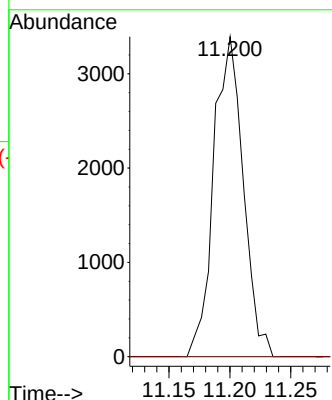
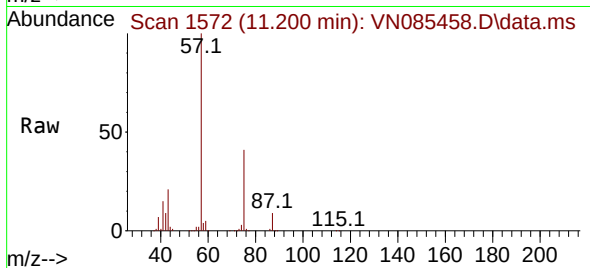
ClientSampleId :

Tgt Ion: 76 Resp: 5727

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 46.564 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.023 min

Lab File: VN085458.D

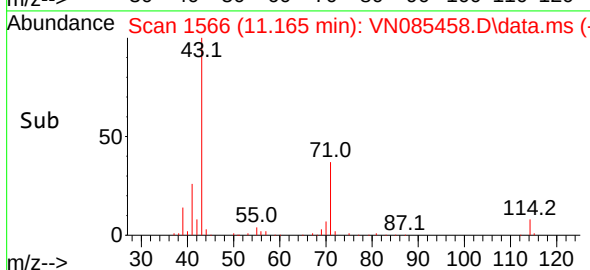
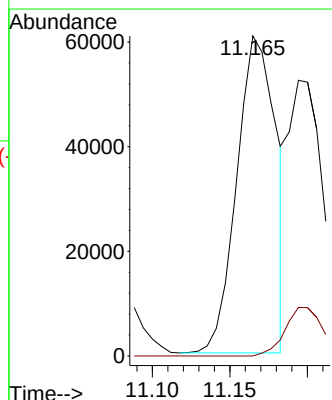
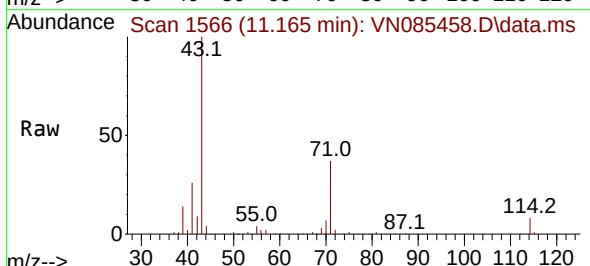
Acq: 15 Jan 2025 13:49

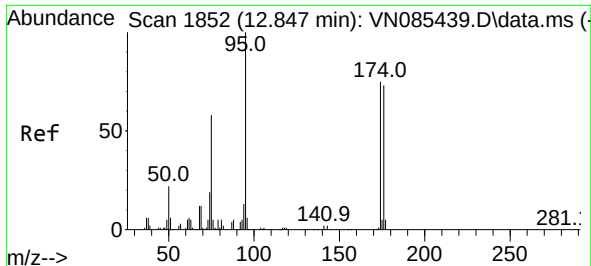
Tgt Ion: 43 Resp: 106592

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.6#

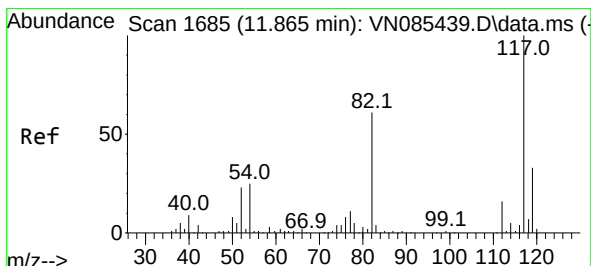
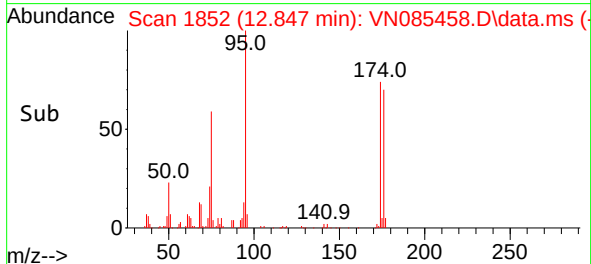
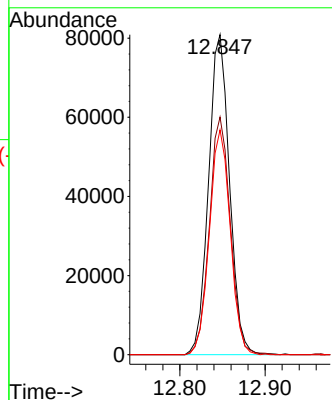
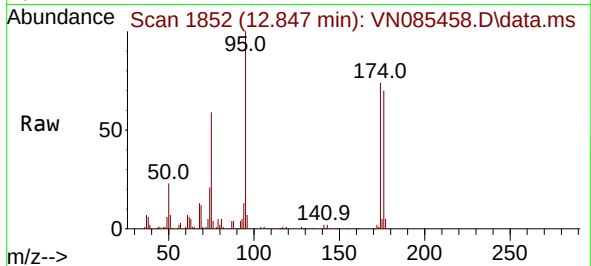




#62
4-Bromofluorobenzene
Concen: 45.948 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

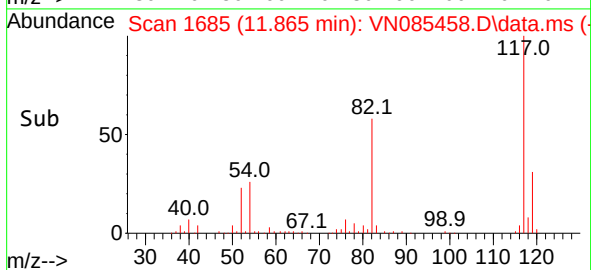
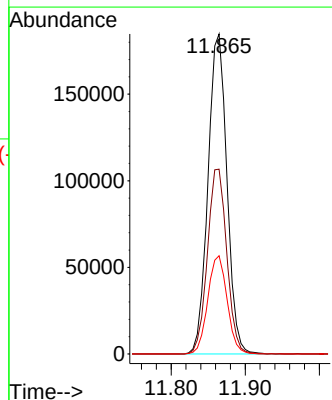
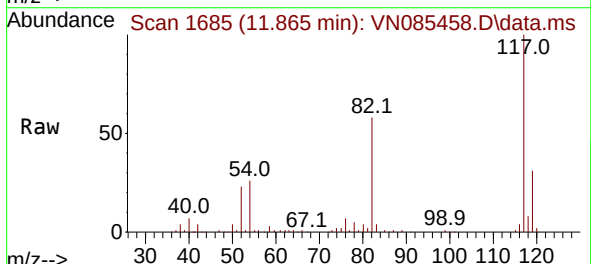
Instrument :
MSVOA_N
ClientSampleId :

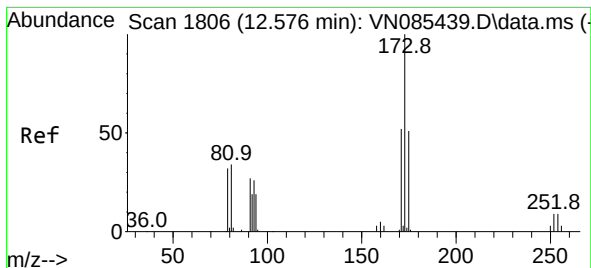
Tgt Ion: 95 Resp: 137929
Ion Ratio Lower Upper
95 100
174 74.7 0.0 145.0
176 69.9 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

Tgt Ion: 117 Resp: 327610
Ion Ratio Lower Upper
117 100
82 57.8 48.6 72.8
119 30.7 26.6 39.8





#71

Bromoform

Concen: 0.499 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN085458.D

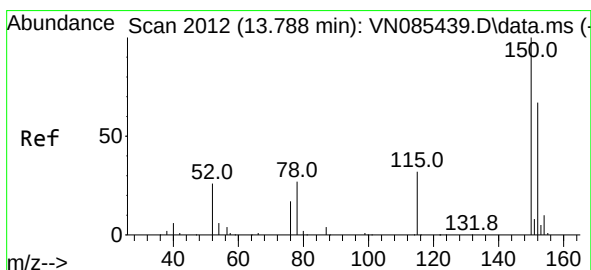
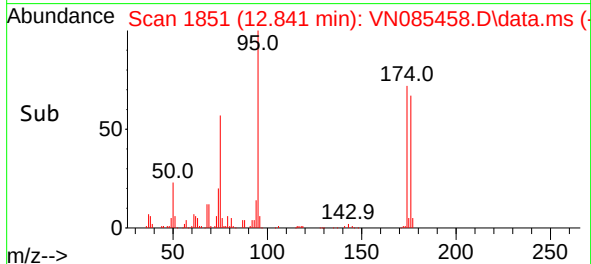
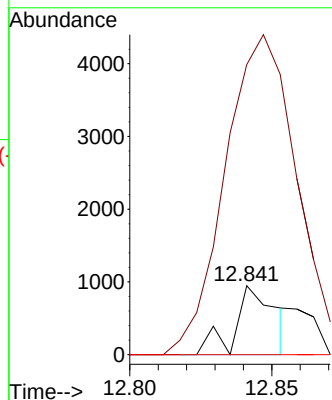
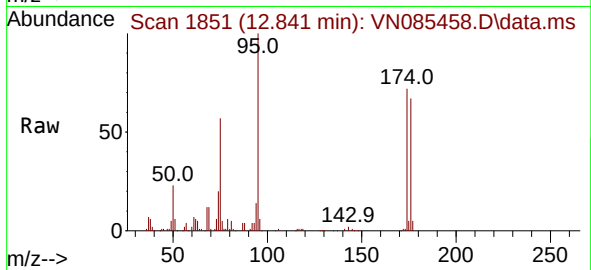
Acq: 15 Jan 2025 13:49

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:173 Resp: 940
 Ion Ratio Lower Upper
 173 100
 175 658.8 24.4 73.2#
 254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

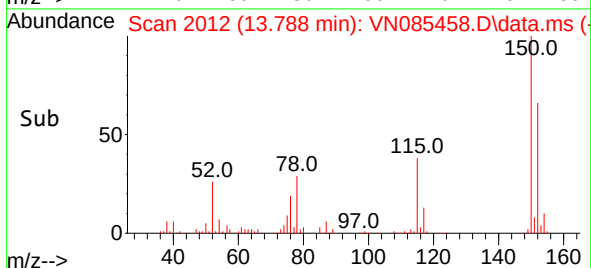
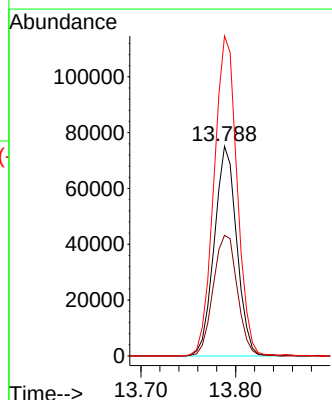
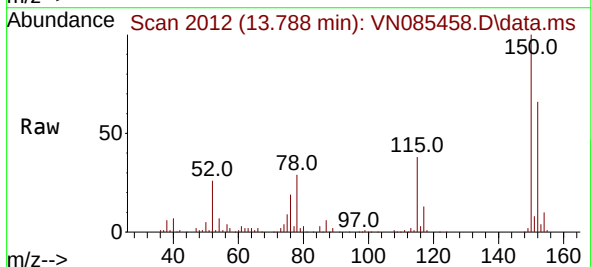
RT: 13.788 min Scan# 2012

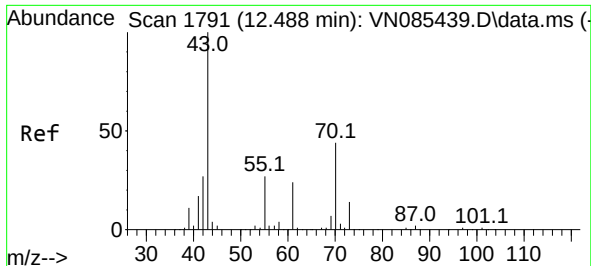
Delta R.T. 0.000 min

Lab File: VN085458.D

Acq: 15 Jan 2025 13:49

Tgt Ion:152 Resp: 123822
 Ion Ratio Lower Upper
 152 100
 115 61.9 31.1 93.3
 150 156.5 0.0 343.6

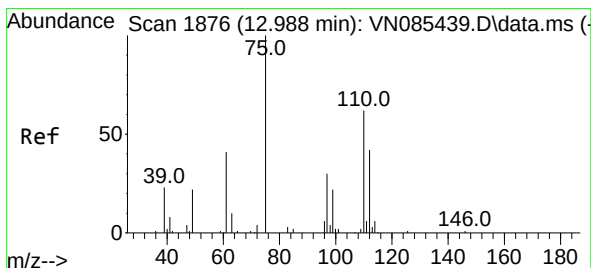
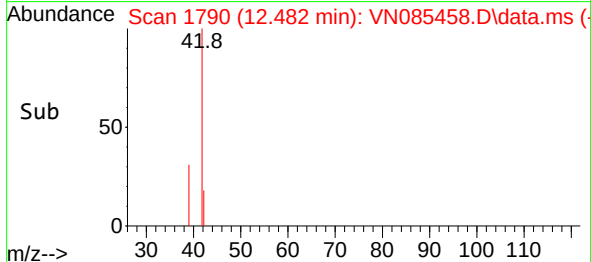
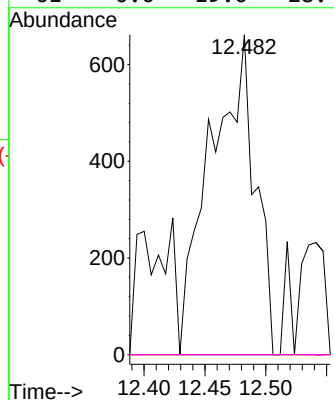
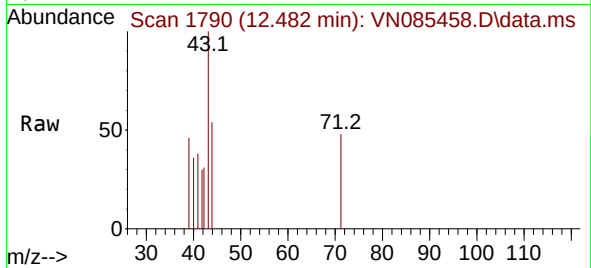




#74
N-amy1 acetate
Concen: 0.447 ug/l
RT: 12.482 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

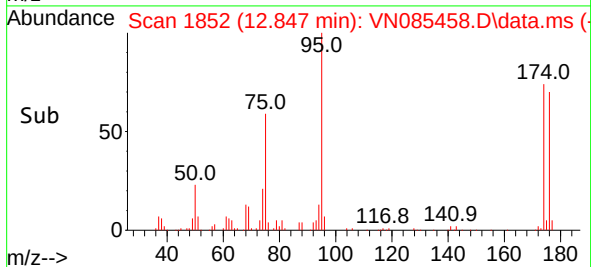
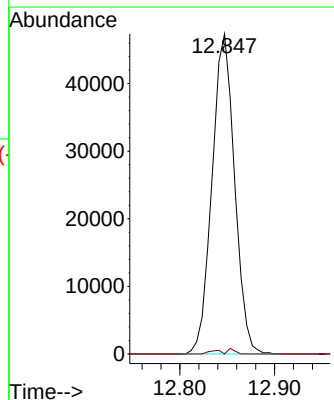
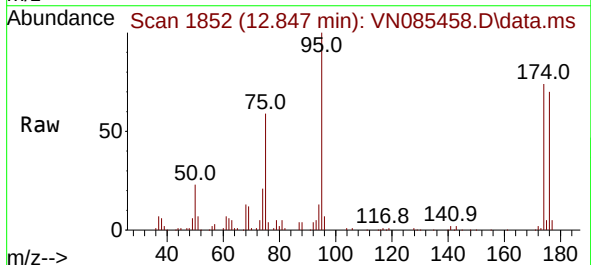
Instrument :
MSVOA_N
ClientSampleId :

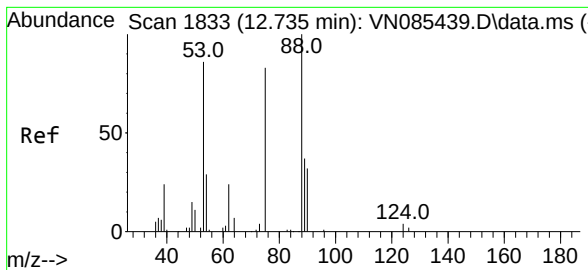
Tgt Ion: 43 Resp: 1678
Ion Ratio Lower Upper
43 100
70 0.0 34.0 51.0#
55 0.0 21.4 32.2#
61 0.0 19.0 28.4#



#76
1,2,3-Trichloropropane
Concen: 31.106 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

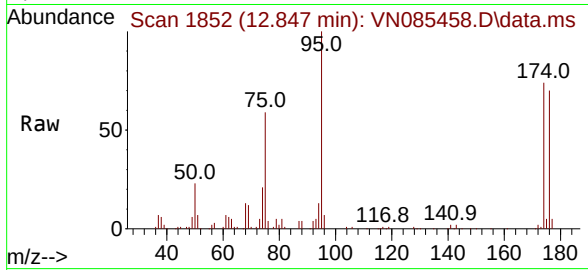
Tgt Ion: 75 Resp: 78286
Ion Ratio Lower Upper
75 100
77 0.5 109.7 329.2#





#81
trans-1,4-Dichloro-2-butene
Concen: 84.161 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN085458.D
Acq: 15 Jan 2025 13:49

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 78286
Ion Ratio Lower Upper
75 100
53 0.0 95.6 143.4#
89 0.0 37.0 55.6#

