

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032525\
 Data File : VN086101.D
 Acq On : 25 Mar 2025 15:28
 Operator : JC\MD
 Sample : PB167276ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167276ZHE#06

Quant Time: Mar 26 03:19:17 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

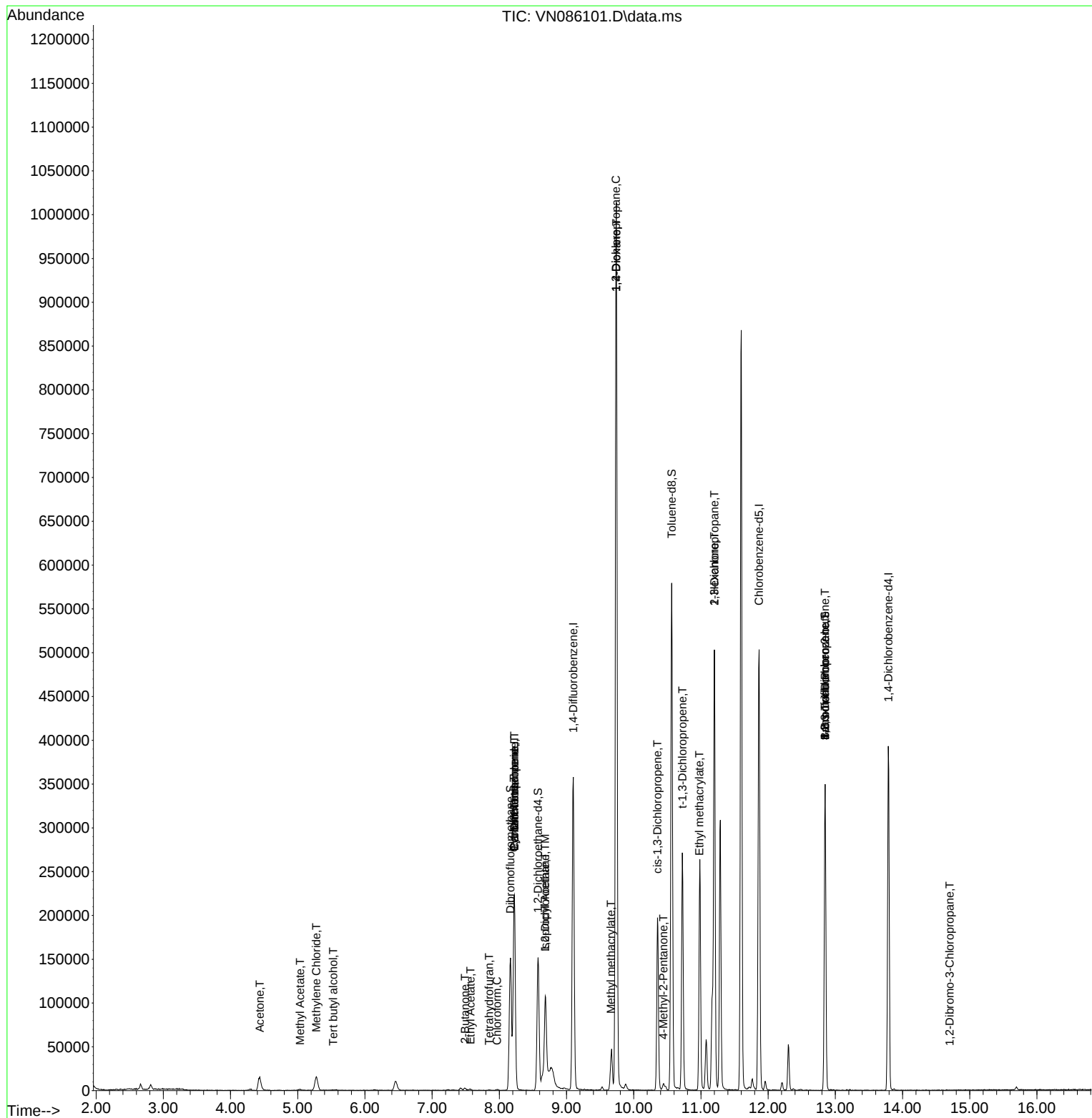
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

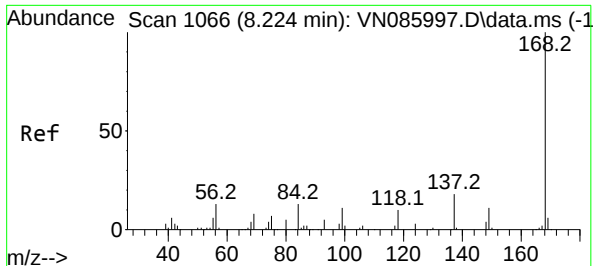
Internal Standards						
1) Pentafluorobenzene	8.224	168	163469	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	310303	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	304693	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	111078	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	126983	56.728	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.460%			
35) Dibromofluoromethane	8.165	113	110550	51.042	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.080%			
50) Toluene-d8	10.565	98	406589	51.725	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.440%			
62) 4-Bromofluorobenzene	12.847	95	119624	42.672	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 85.340%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.530	59	275	0.868	ug/l #	73
16) Acetone	4.436	43	29245	42.764	ug/l	94
18) Methyl Acetate	5.036	43	2269	1.341	ug/l #	75
20) Methylene Chloride	5.277	84	13137	6.567	ug/l #	95
25) 2-Butanone	7.489	43	4118	4.173	ug/l #	80
29) Tetrahydrofuran	7.847	42	395	0.648	ug/l #	45
30) Chloroform	7.965	83	1046	0.289	ug/l #	53
31) Cyclohexane	8.218	56	3448	1.236	ug/l #	39
36) 1,1-Dichloropropene	8.224	75	12973	4.549	ug/l #	49
37) Ethyl Acetate	7.571	43	2529	1.051	ug/l #	74
38) Carbon Tetrachloride	8.224	117	16384	4.369	ug/l #	17
42) 1,2-Dichloroethane	8.683	62	847	0.272	ug/l #	74
43) Isopropyl Acetate	8.683	43	134261	25.752	ug/l #	79
45) 1,2-Dichloropropane	9.735	63	1266	0.622	ug/l #	44
48) Methyl methacrylate	9.659	41	2724	1.583	ug/l #	7
49) 1,4-Dioxane	9.741	88	73	1.795	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	4063	1.767	ug/l	94
53) t-1,3-Dichloropropene	10.724	75	863	0.266	ug/l #	79
54) cis-1,3-Dichloropropene	10.353	75	37608	10.967	ug/l #	67
56) Ethyl methacrylate	10.977	69	1907	0.908	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5659	1.589	ug/l #	42
59) 2-Hexanone	11.200	43	52569	31.383	ug/l #	53
71) Bromoform	12.847	173	984	0.454	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	61037	24.544	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	61037	64.891	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.700	75	124	0.242	ug/l #	2

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

Instrument :
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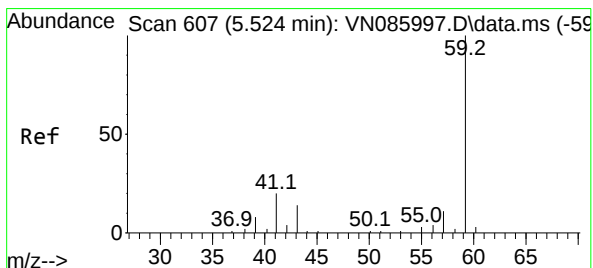
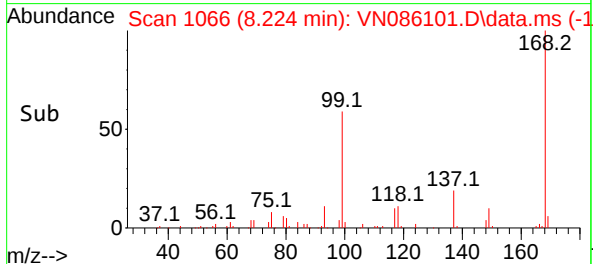
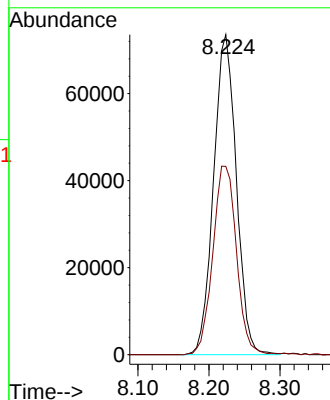
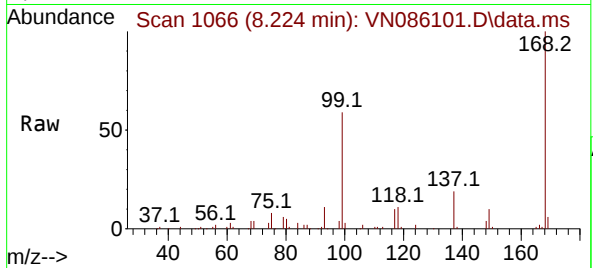




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

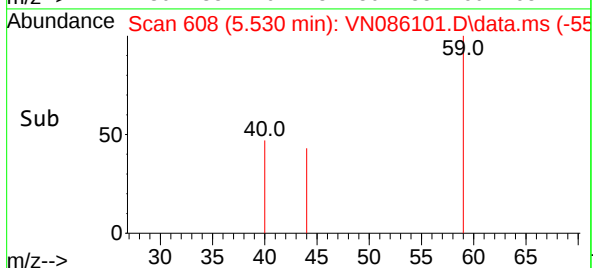
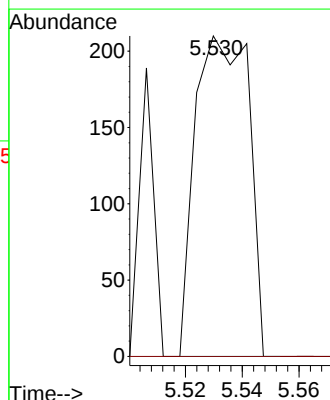
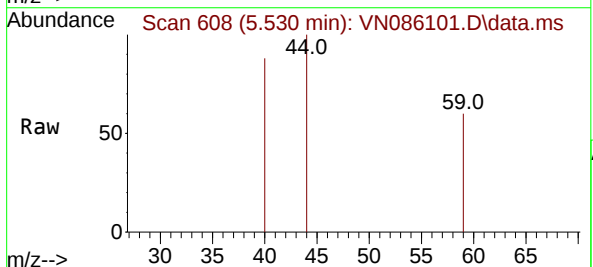
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#06

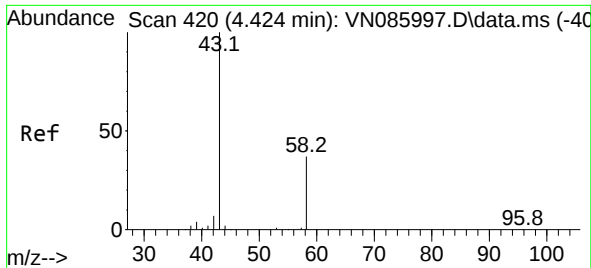
Tgt Ion:168 Resp: 163469
Ion Ratio Lower Upper
168 100
99 58.9 49.4 74.2



#11
Tert butyl alcohol
Concen: 0.868 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Tgt Ion: 59 Resp: 275
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

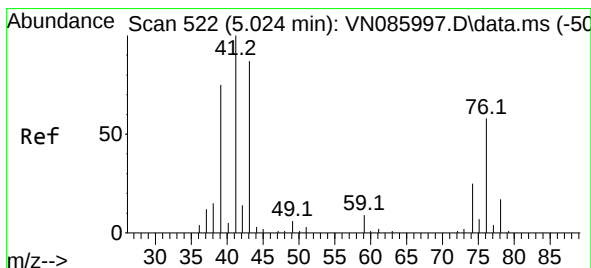
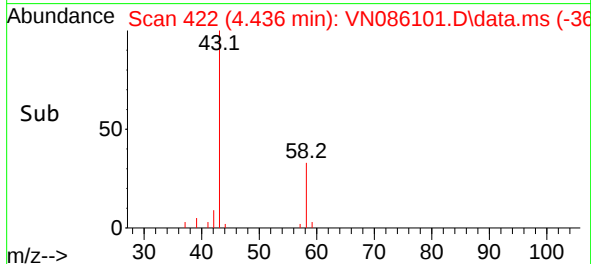
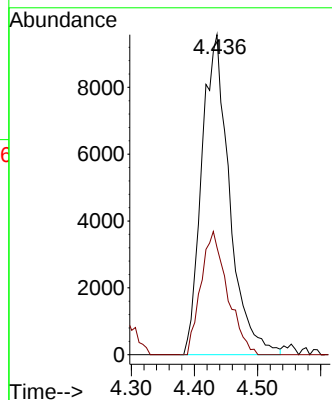
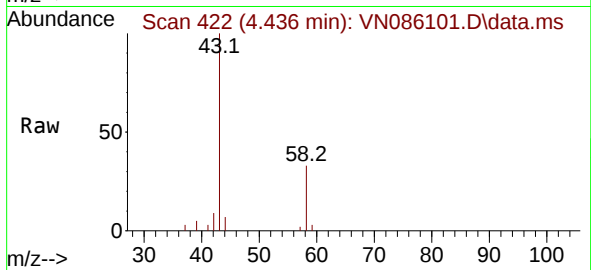




#16
Acetone
Concen: 42.764 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

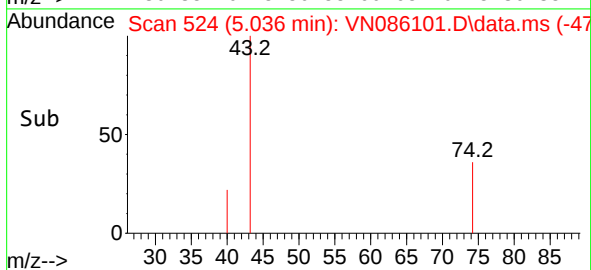
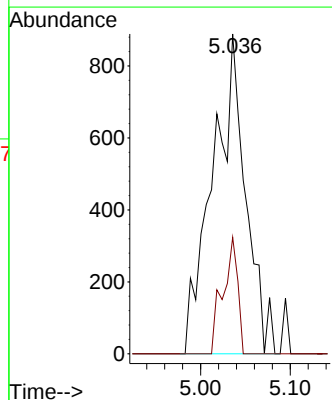
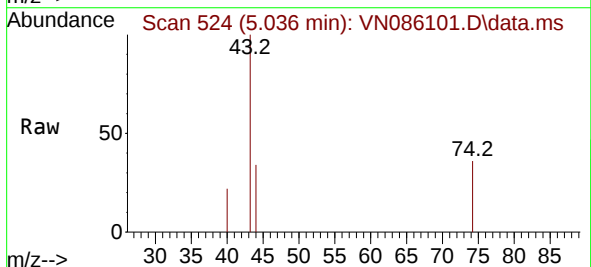
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#06

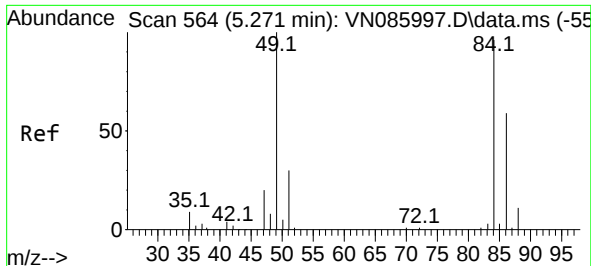
Tgt Ion: 43 Resp: 29245
Ion Ratio Lower Upper
43 100
58 33.5 29.4 44.2



#18
Methyl Acetate
Concen: 1.341 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Tgt Ion: 43 Resp: 2269
Ion Ratio Lower Upper
43 100
74 16.4 23.9 35.9#





#20

Methylene Chloride

Concen: 6.567 ug/l

RT: 5.277 min Scan# 5

Delta R.T. 0.006 min

Lab File: VN086101.D

Acq: 25 Mar 2025 15:28

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#06

Tgt Ion: 84 Resp: 13137

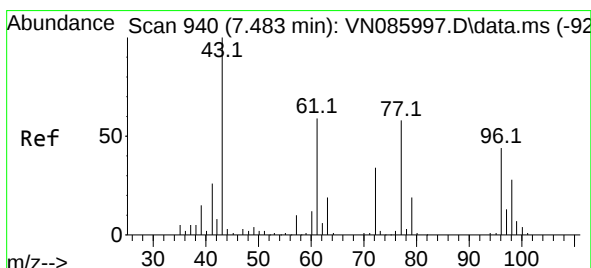
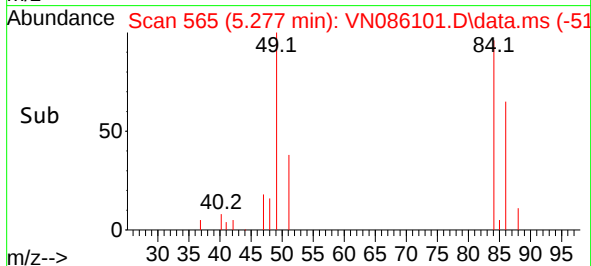
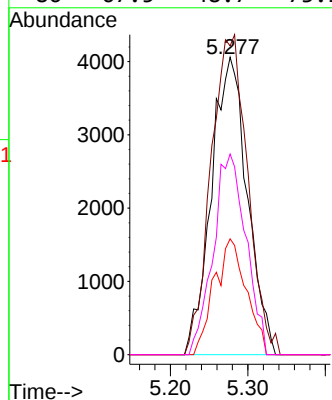
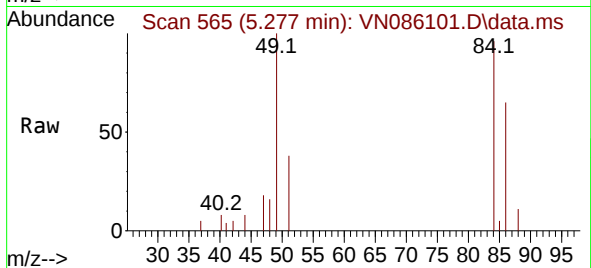
Ion Ratio Lower Upper

84 100

49 103.8 83.3 124.9

51 38.9 24.8 37.2#

86 67.5 48.7 73.1



#25

2-Butanone

Concen: 4.173 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086101.D

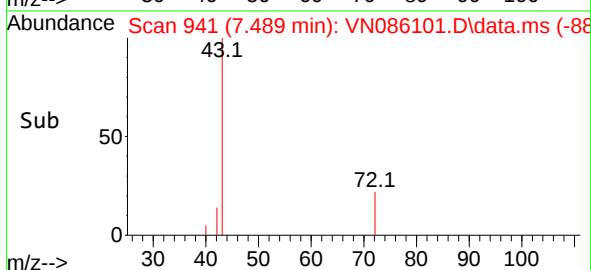
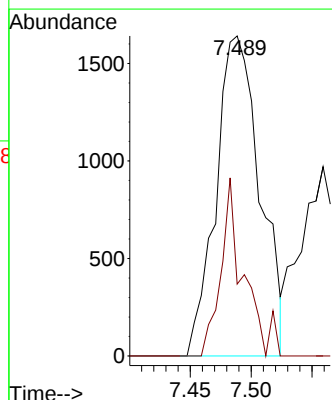
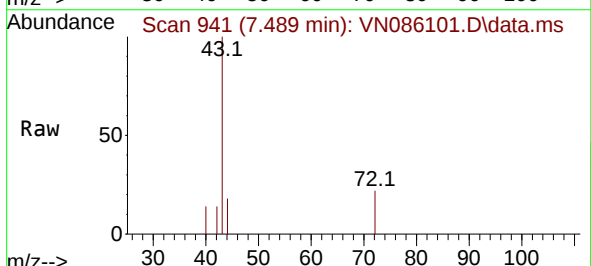
Acq: 25 Mar 2025 15:28

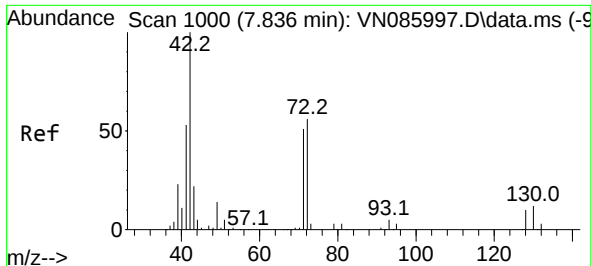
Tgt Ion: 43 Resp: 4118

Ion Ratio Lower Upper

43 100

72 22.5 27.4 41.0#





#29

Tetrahydrofuran

Concen: 0.648 ug/l

RT: 7.847 min Scan# 1000

Delta R.T. 0.012 min

Lab File: VN086101.D

Acq: 25 Mar 2025 15:28

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#06

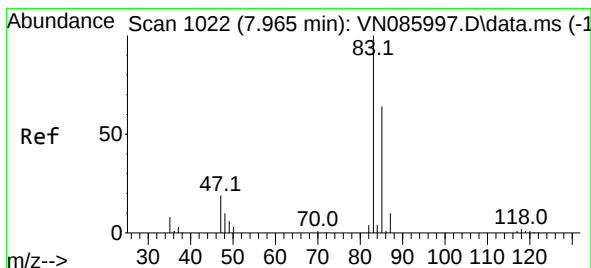
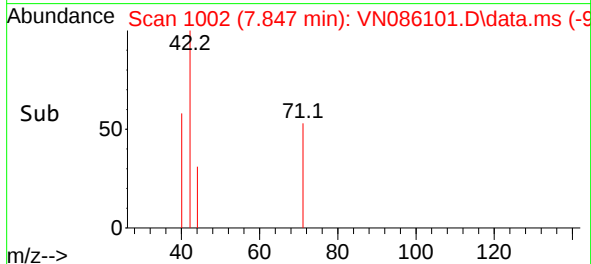
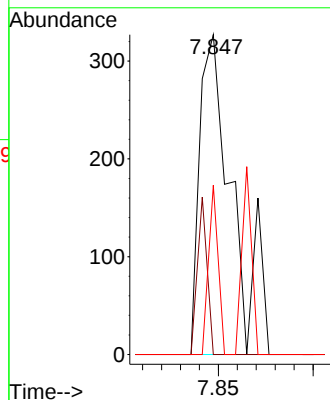
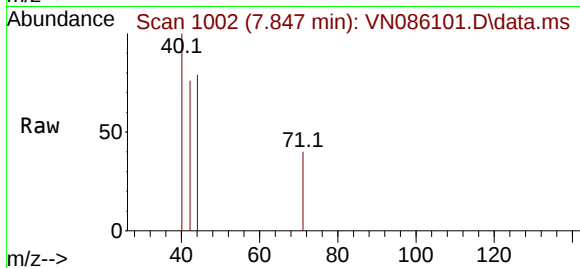
Tgt Ion: 42 Resp: 395

Ion Ratio Lower Upper

42 100

72 14.4 45.0 67.4#

71 15.4 41.9 62.9#



#30

Chloroform

Concen: 0.289 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086101.D

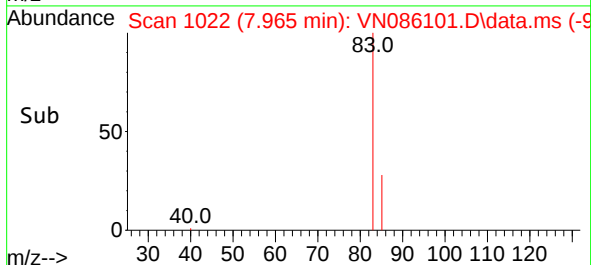
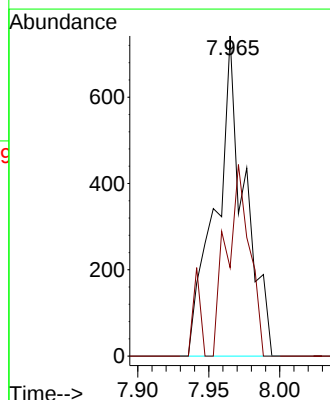
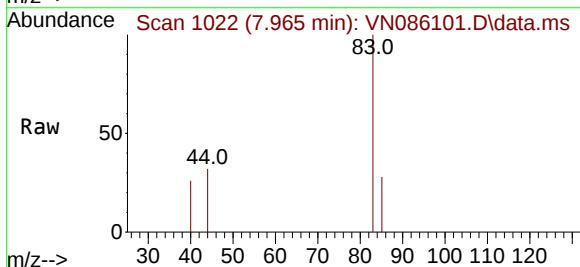
Acq: 25 Mar 2025 15:28

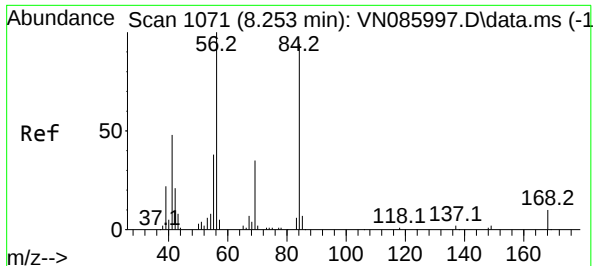
Tgt Ion: 83 Resp: 1046

Ion Ratio Lower Upper

83 100

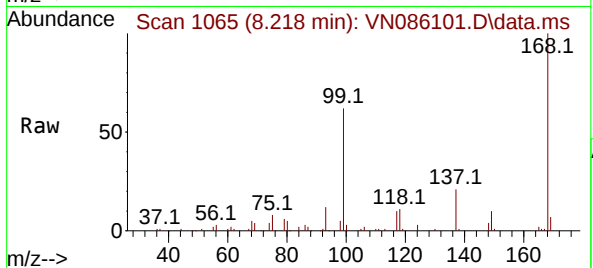
85 27.6 51.5 77.3#



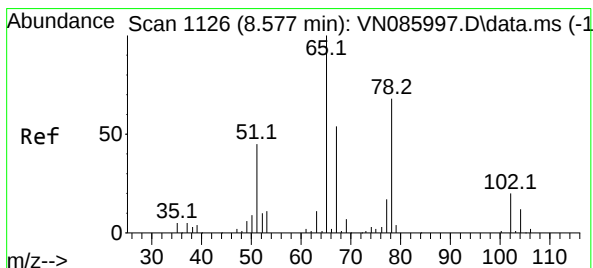
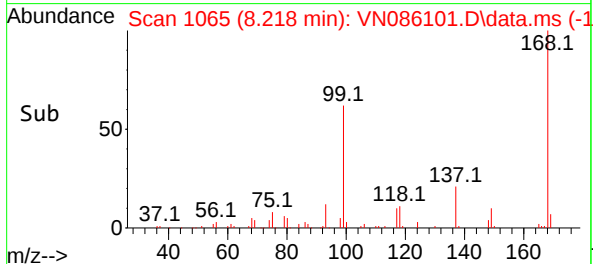
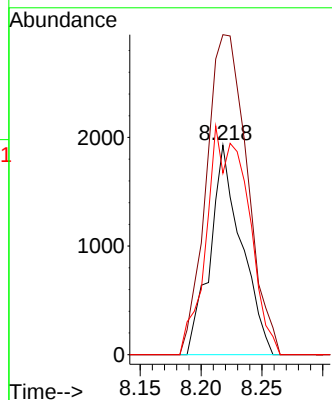


#31
Cyclohexane
Concen: 1.236 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#06

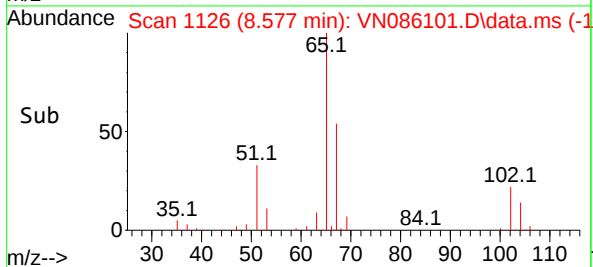
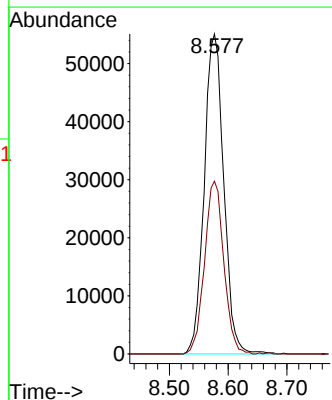
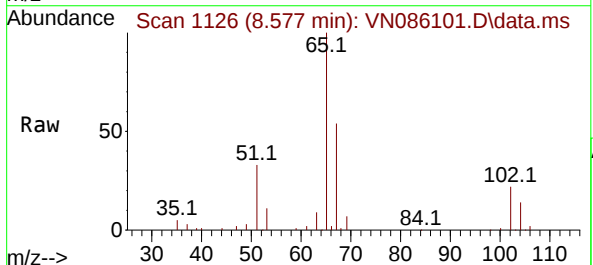


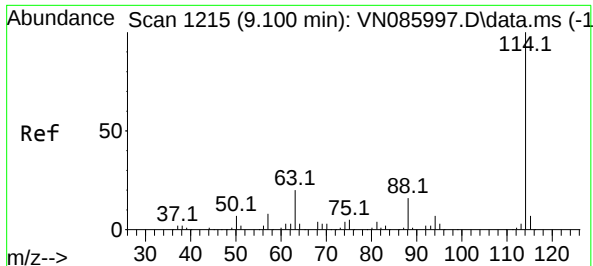
Tgt Ion: 56 Resp: 3448
Ion Ratio Lower Upper
56 100
69 152.8 28.0 42.0#
84 86.7 75.0 112.6



#33
1,2-Dichloroethane-d4
Concen: 56.728 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Tgt Ion: 65 Resp: 126983
Ion Ratio Lower Upper
65 100
67 53.3 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086101.D

Acq: 25 Mar 2025 15:28

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#06

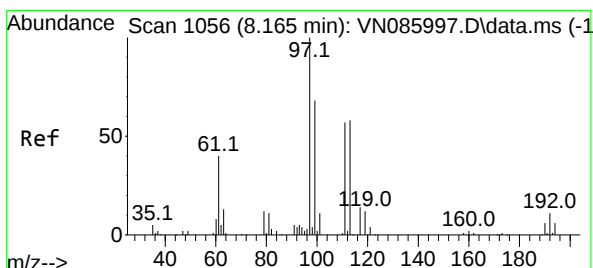
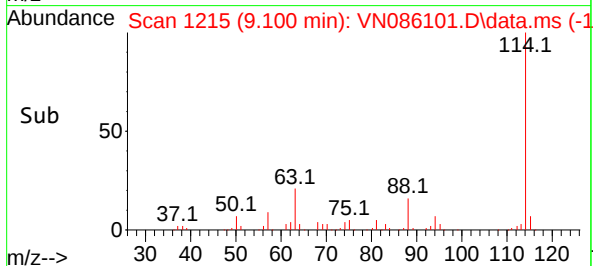
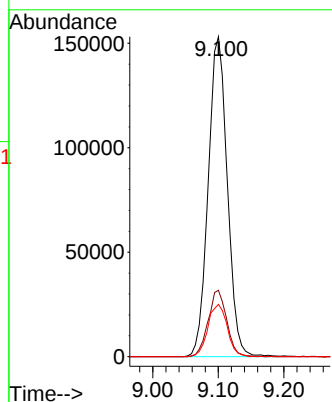
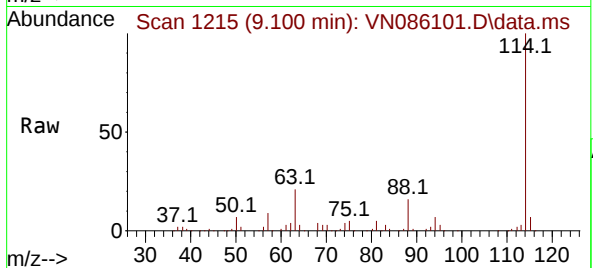
Tgt Ion:114 Resp: 310303

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.6

88 16.3 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.042 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086101.D

Acq: 25 Mar 2025 15:28

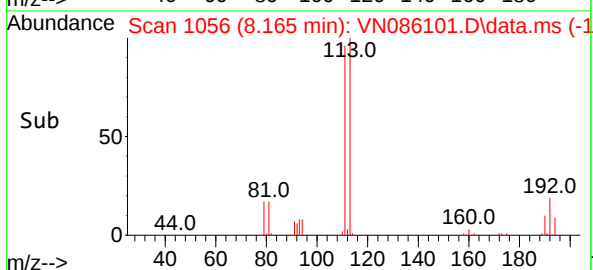
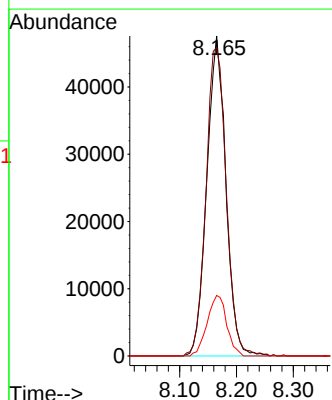
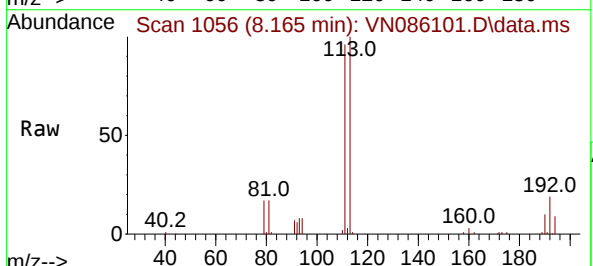
Tgt Ion:113 Resp: 110550

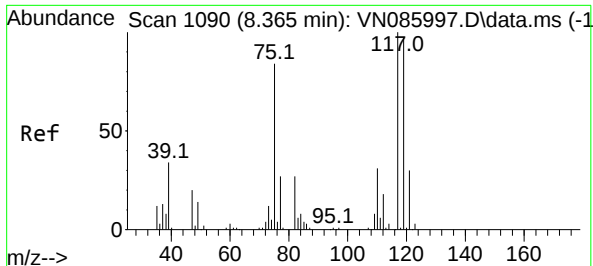
Ion Ratio Lower Upper

113 100

111 102.8 81.8 122.8

192 19.4 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.549 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086101.D

Acq: 25 Mar 2025 15:28

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#06

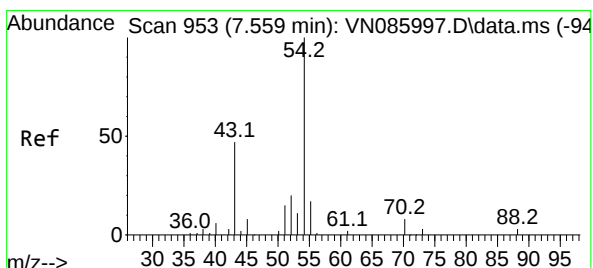
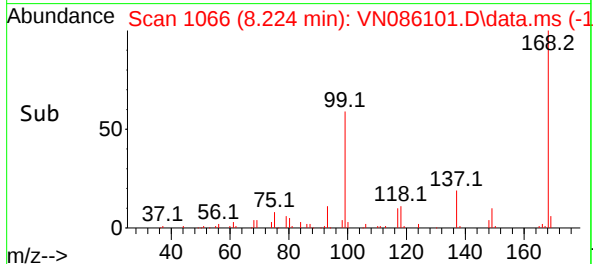
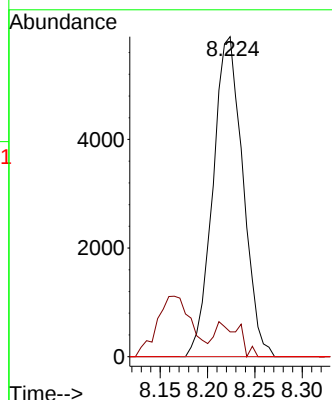
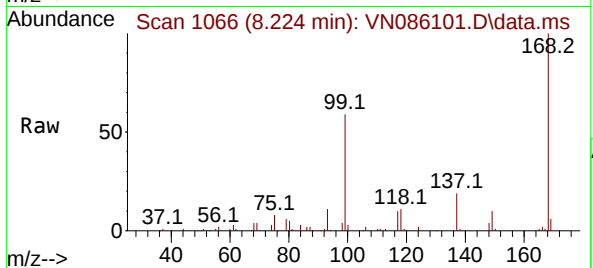
Tgt Ion: 75 Resp: 12973

Ion Ratio Lower Upper

75 100

110 8.9 17.8 53.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.051 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.012 min

Lab File: VN086101.D

Acq: 25 Mar 2025 15:28

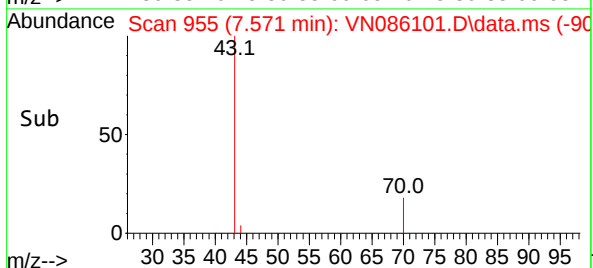
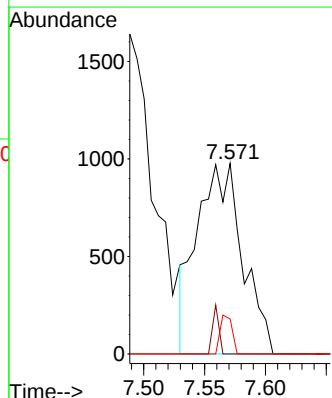
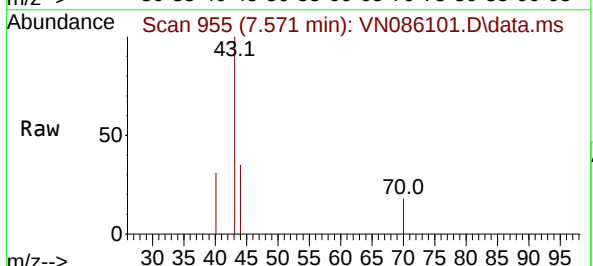
Tgt Ion: 43 Resp: 2529

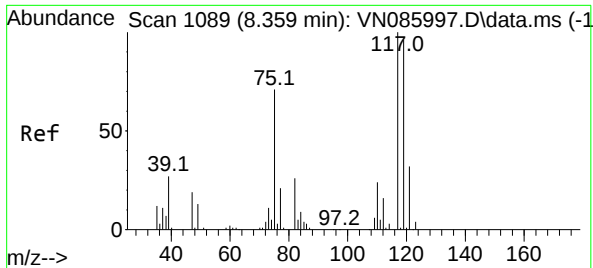
Ion Ratio Lower Upper

43 100

61 3.5 13.0 19.4#

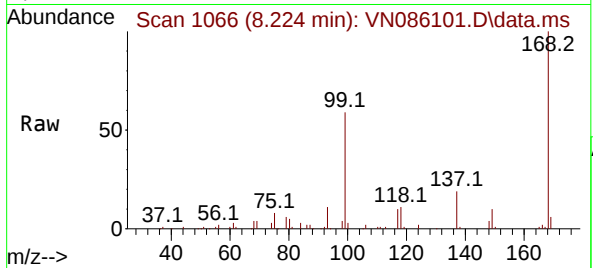
70 5.3 11.0 16.6#



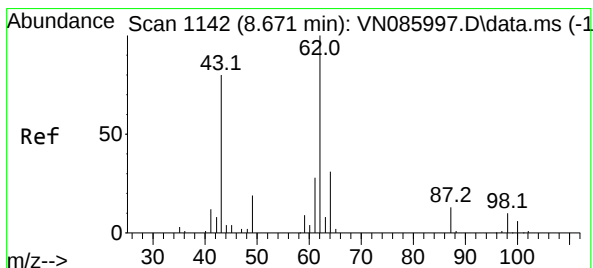
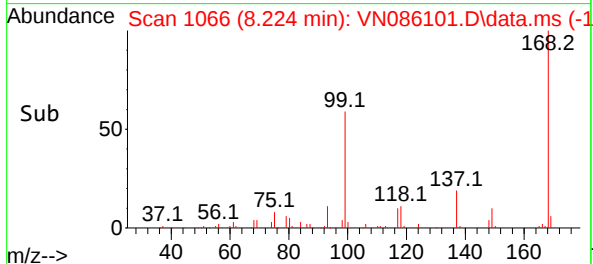
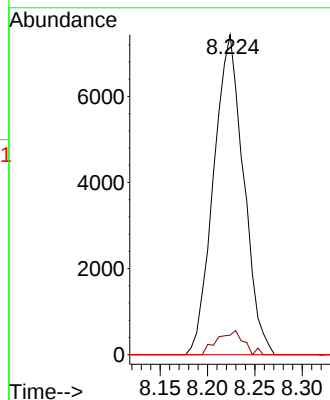


#38
Carbon Tetrachloride
Concen: 4.369 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#06

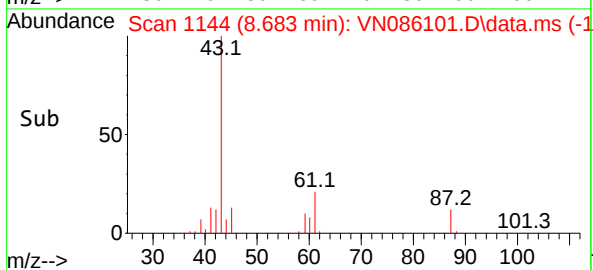
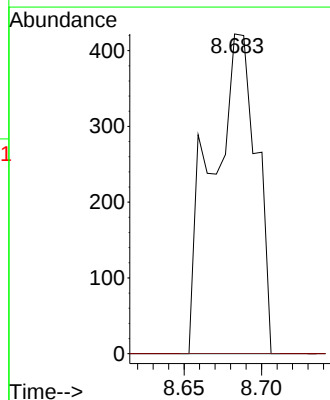
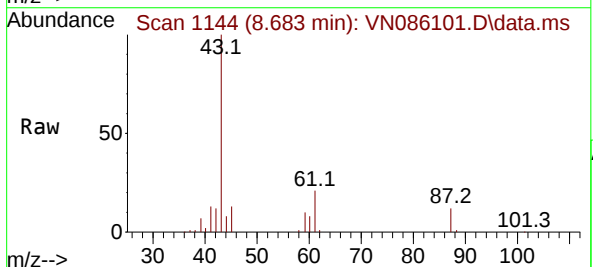


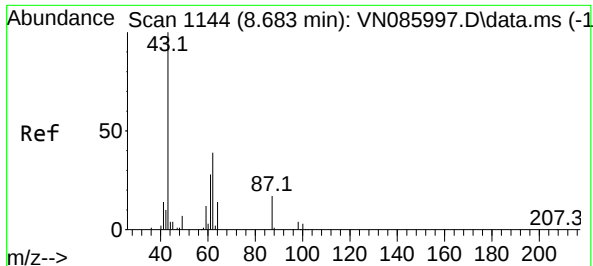
Tgt Ion:117 Resp: 16384
Ion Ratio Lower Upper
117 100
119 6.1 77.0 115.4#
121 0.0 25.6 38.4#



#42
1,2-Dichloroethane
Concen: 0.272 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.012 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Tgt Ion: 62 Resp: 847
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.6

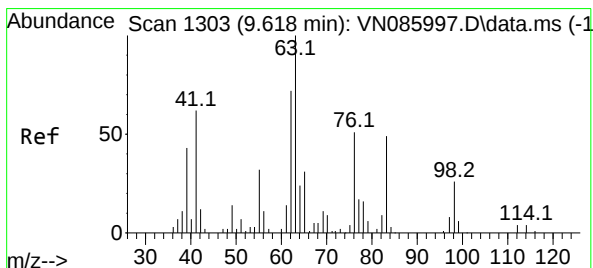
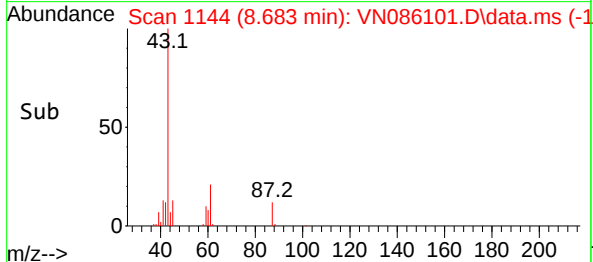
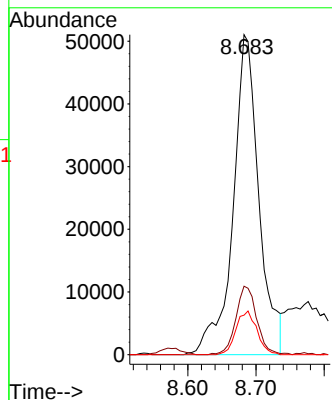
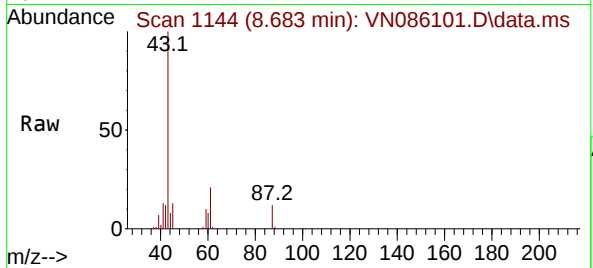




#43
Isopropyl Acetate
Concen: 25.752 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

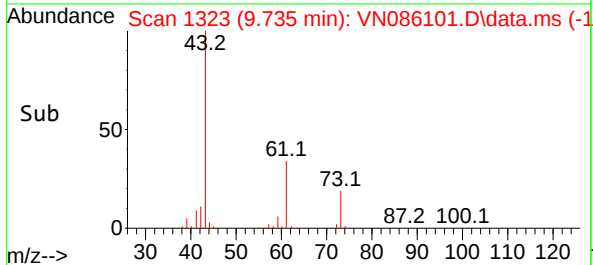
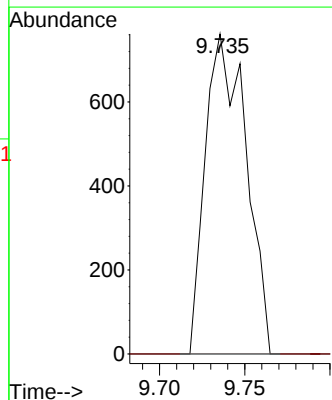
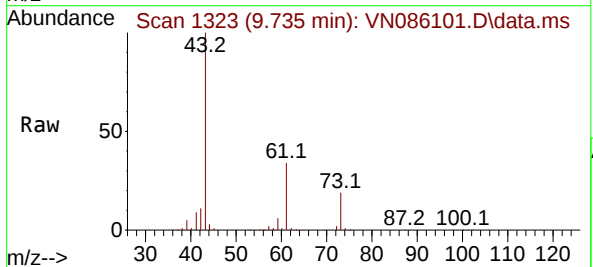
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#06

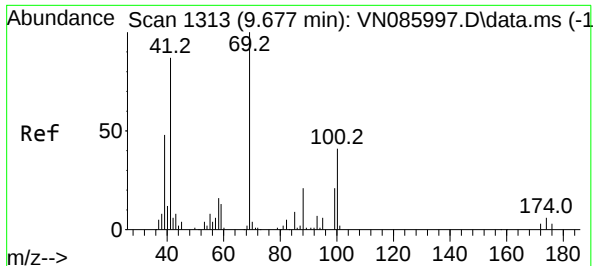
Tgt Ion: 43 Resp: 134261
Ion Ratio Lower Upper
43 100
61 17.4 25.0 37.6#
87 11.1 13.0 19.4#



#45
1,2-Dichloropropane
Concen: 0.622 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Tgt Ion: 63 Resp: 1266
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

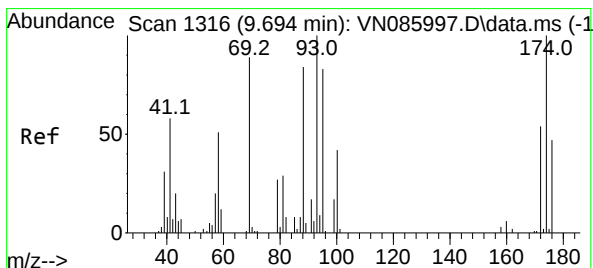
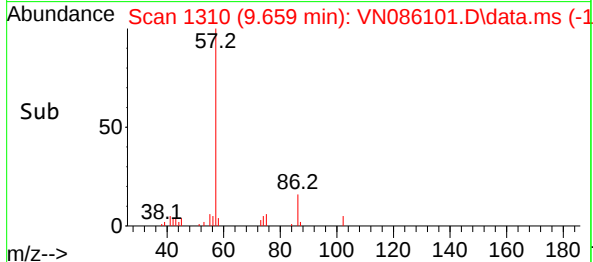
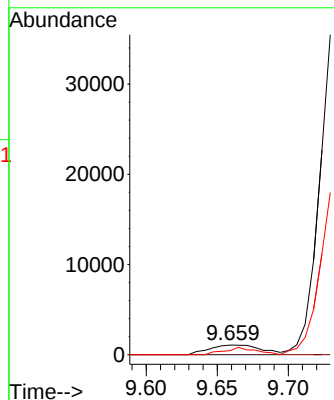
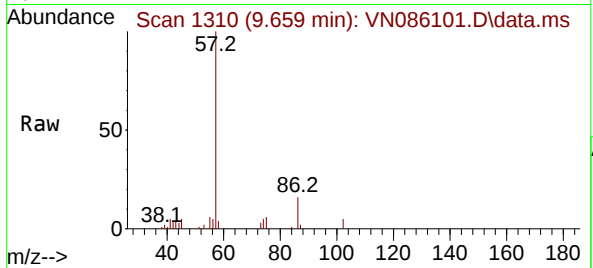




#48
Methyl methacrylate
Concen: 1.583 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

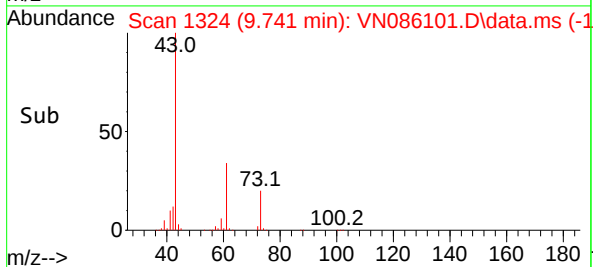
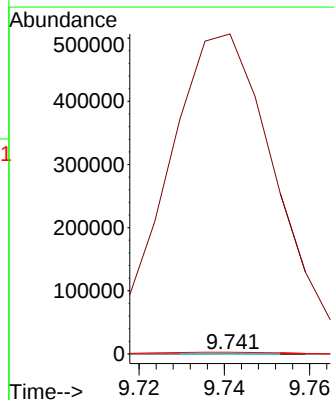
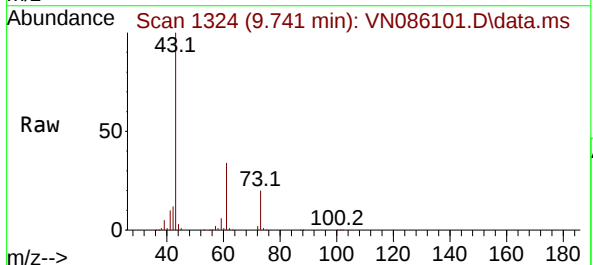
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#06

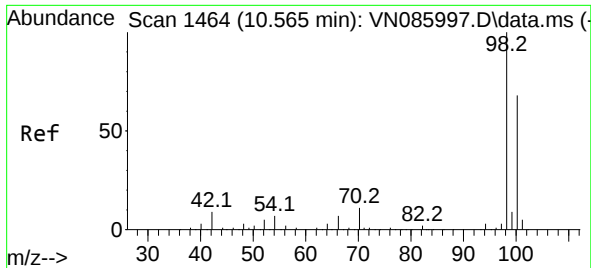
Tgt Ion: 41 Resp: 2724
Ion Ratio Lower Upper
41 100
69 0.0 83.1 124.7#
39 0.0 45.6 68.4#



#49
1,4-Dioxane
Concen: 1.795 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.047 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Tgt Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 1263016.4 21.7 32.5#
58 8137.0 50.4 75.6#

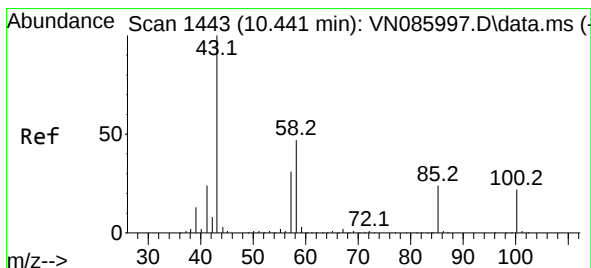
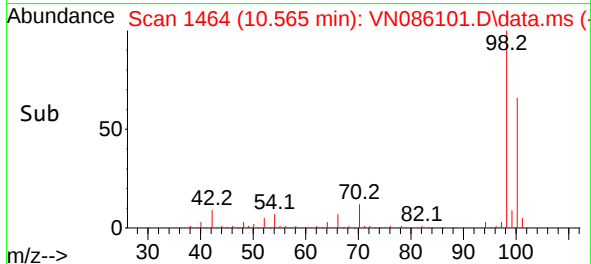
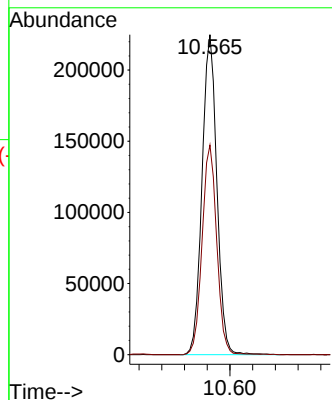
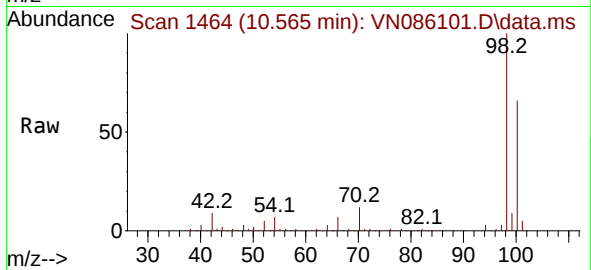




#50
Toluene-d8
Concen: 51.725 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

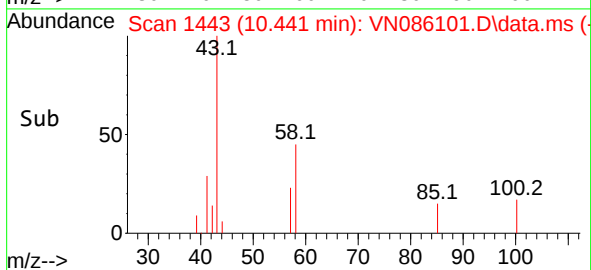
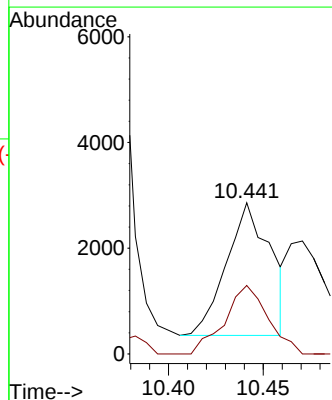
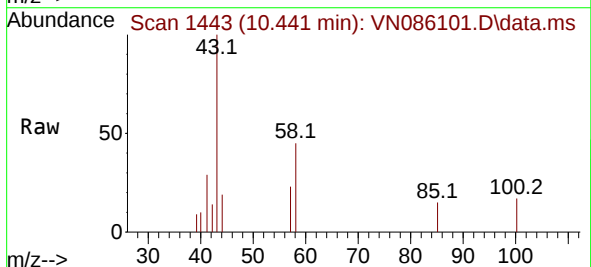
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#06

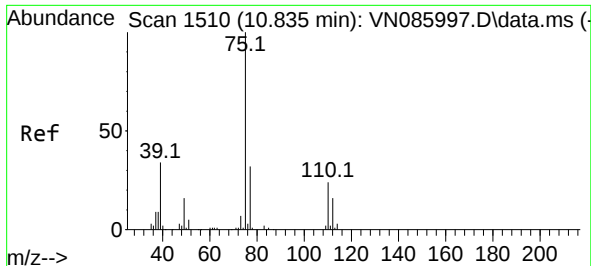
Tgt Ion: 98 Resp: 406589
Ion Ratio Lower Upper
98 100
100 64.7 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 1.767 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Tgt Ion: 43 Resp: 4063
Ion Ratio Lower Upper
43 100
58 50.6 37.4 56.0

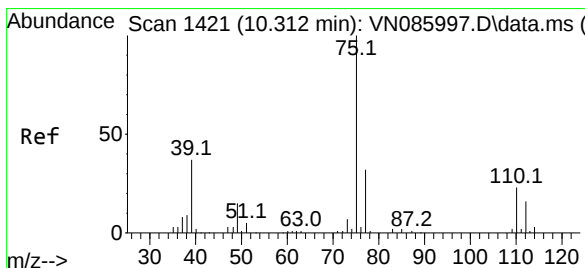
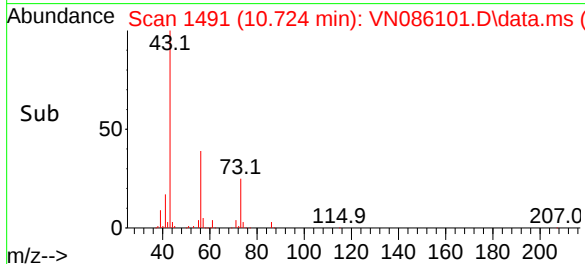
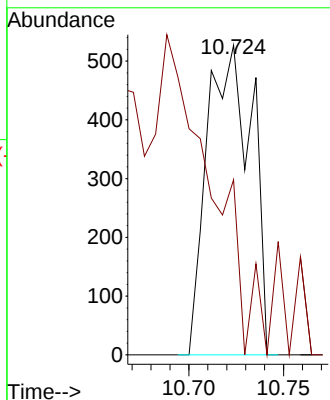
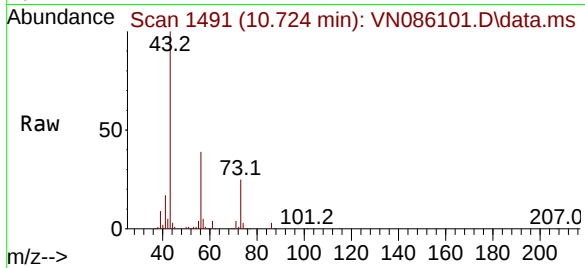




#53
t-1,3-Dichloropropene
Concen: 0.266 ug/l
RT: 10.724 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

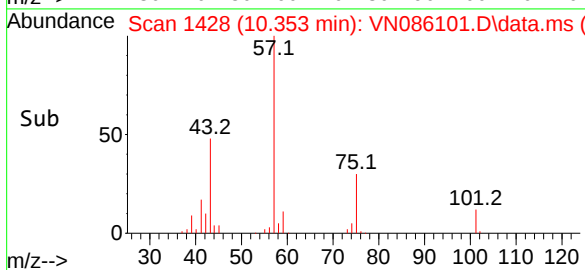
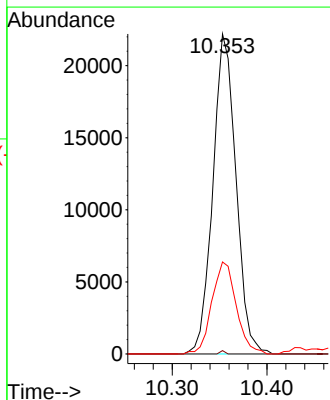
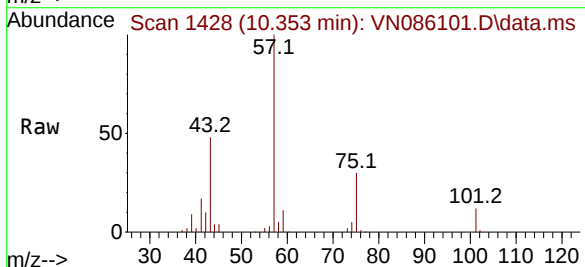
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#06

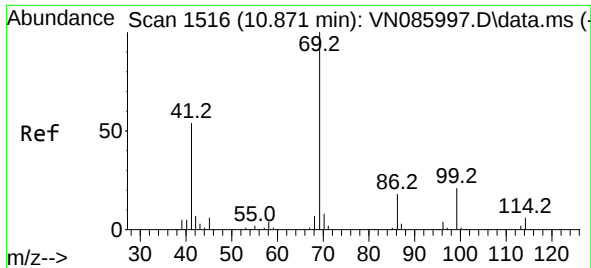
Tgt Ion: 75 Resp: 863
Ion Ratio Lower Upper
75 100
77 19.9 25.3 37.9#



#54
cis-1,3-Dichloropropene
Concen: 10.967 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Tgt Ion: 75 Resp: 37608
Ion Ratio Lower Upper
75 100
77 1.0 25.3 37.9#
39 28.7 29.6 44.4#

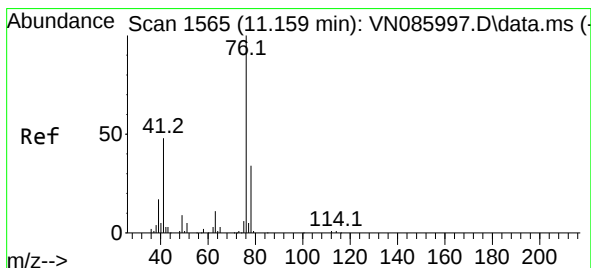
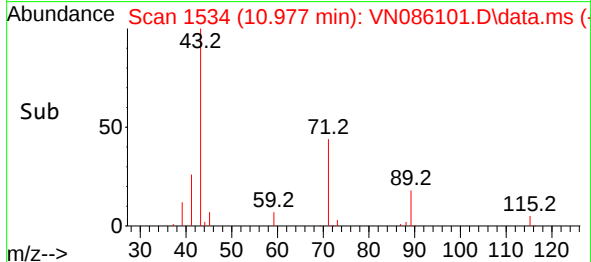
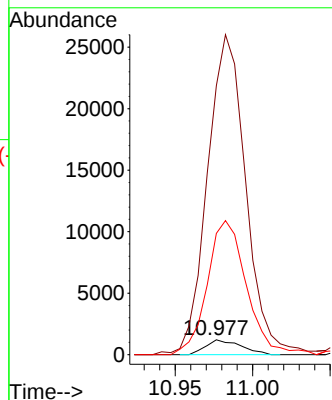
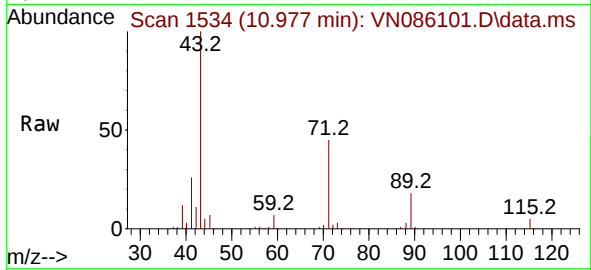




#56
Ethyl methacrylate
Concen: 0.908 ug/l
RT: 10.977 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

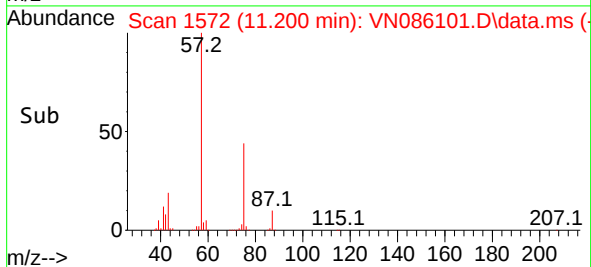
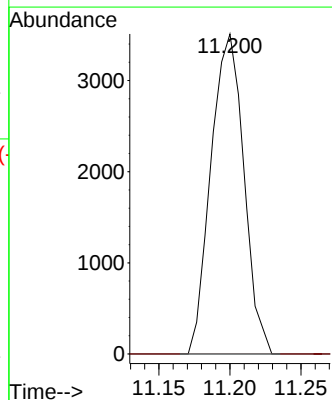
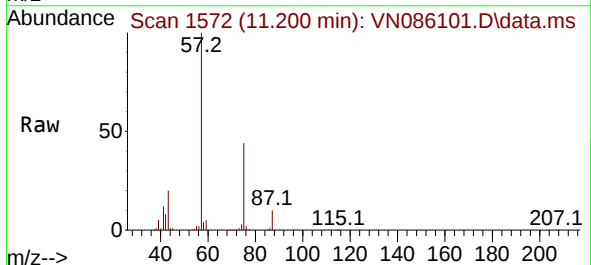
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#06

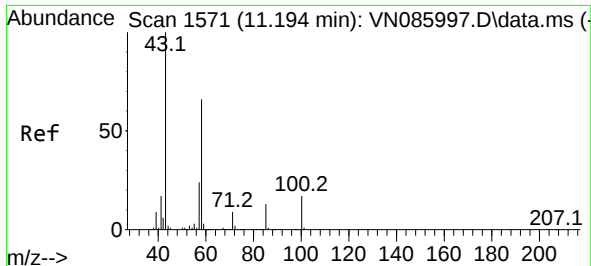
Tgt Ion: 69 Resp: 1907
Ion Ratio Lower Upper
69 100
41 2349.1 41.6 62.4#
39 1006.8 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.589 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Tgt Ion: 76 Resp: 5659
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

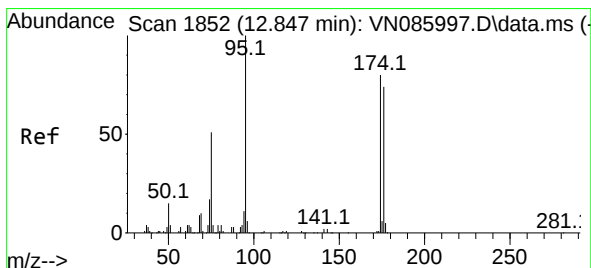
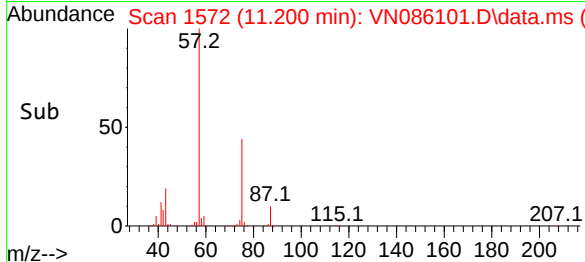
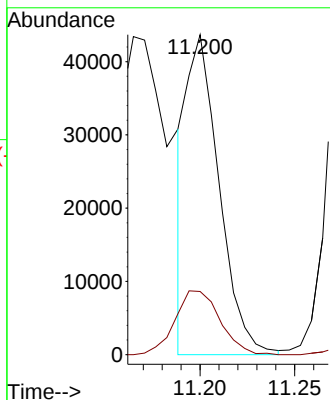
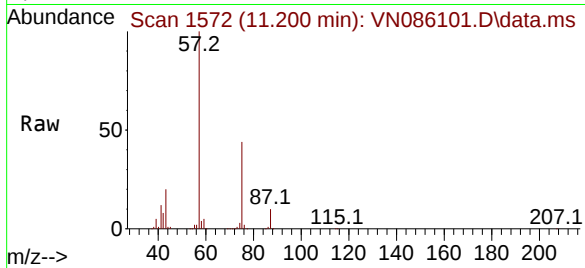




#59
2-Hexanone
Concen: 31.383 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

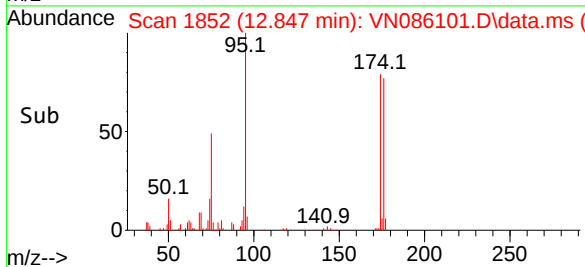
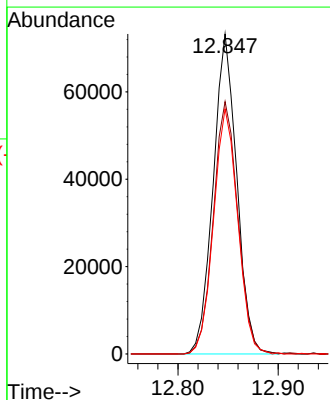
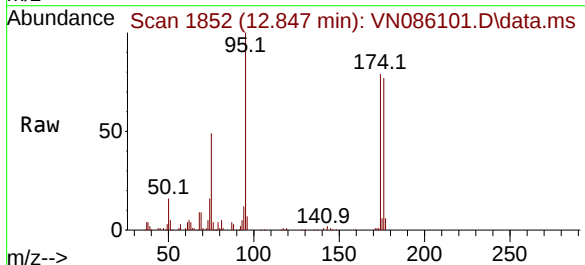
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#06

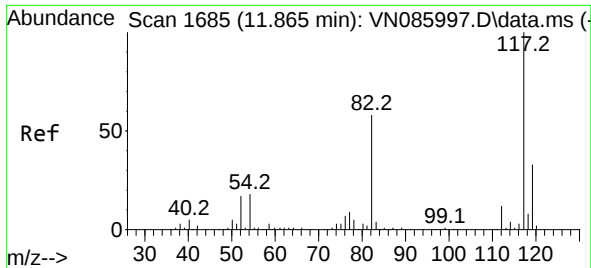
Tgt Ion: 43 Resp: 52569
Ion Ratio Lower Upper
43 100
58 27.5 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 42.672 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Tgt Ion: 95 Resp: 119624
Ion Ratio Lower Upper
95 100
174 82.1 0.0 156.8
176 78.5 0.0 152.2

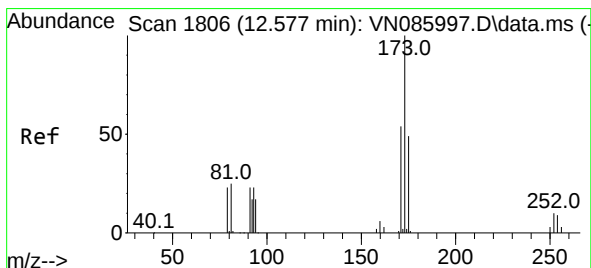
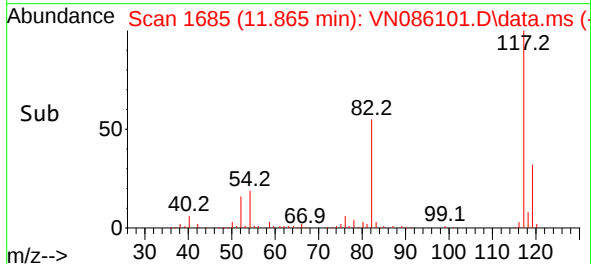
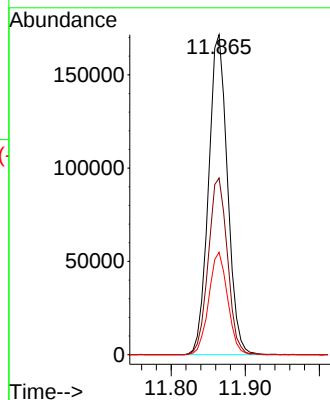
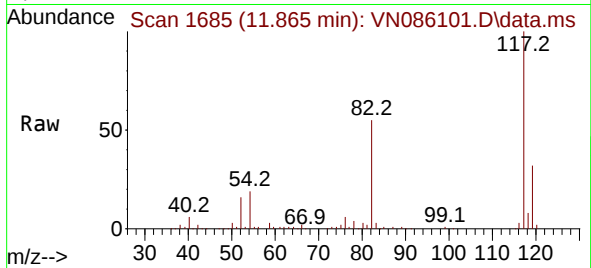




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

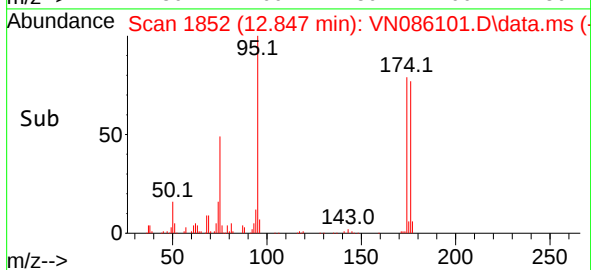
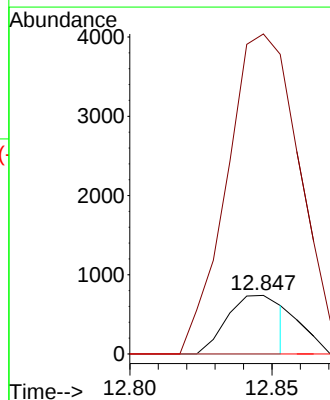
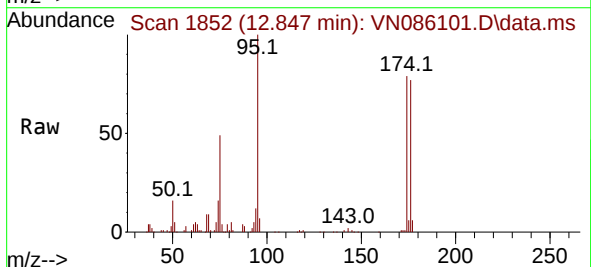
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#06

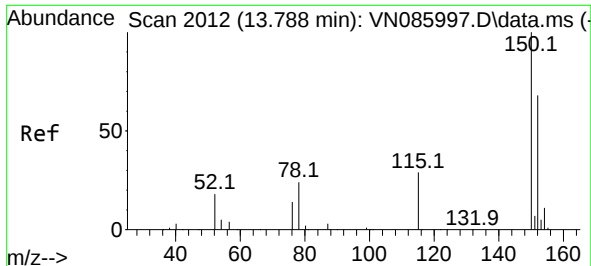
Tgt Ion:117 Resp: 304693
Ion Ratio Lower Upper
117 100
82 55.2 46.7 70.1
119 32.0 26.5 39.7



#71
Bromoform
Concen: 0.454 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086101.D
Acq: 25 Mar 2025 15:28

Tgt Ion:173 Resp: 984
Ion Ratio Lower Upper
173 100
175 570.1 24.3 73.0#
254 0.0 0.0 0.0

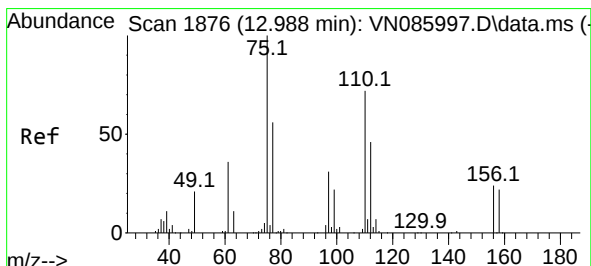
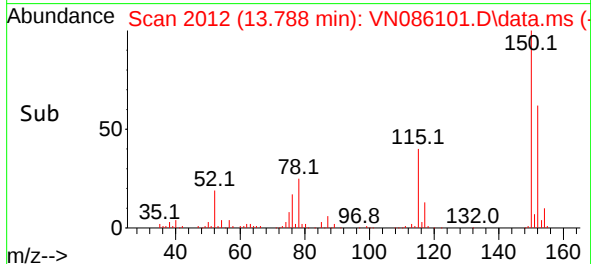
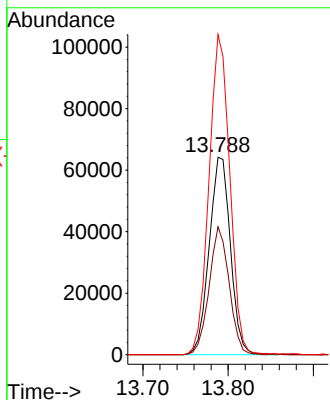
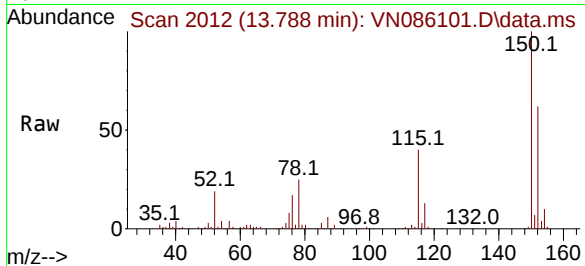




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086101.D
 Acq: 25 Mar 2025 15:28

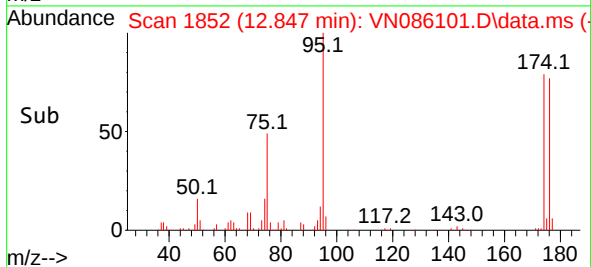
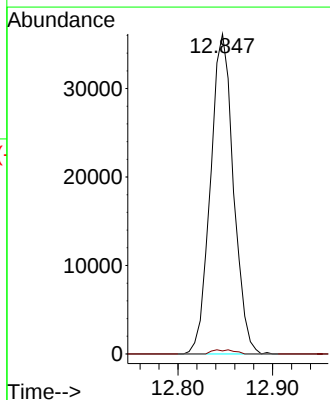
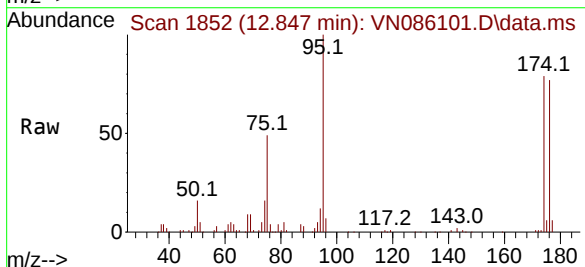
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167276ZHE#06

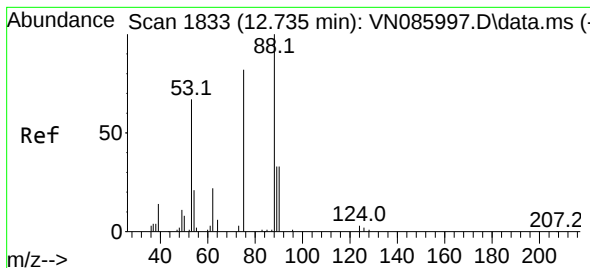
Tgt Ion:152 Resp: 111078
 Ion Ratio Lower Upper
 152 100
 115 61.0 31.1 93.2
 150 158.6 0.0 359.6



#76
 1,2,3-Trichloropropane
 Concen: 24.544 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN086101.D
 Acq: 25 Mar 2025 15:28

Tgt Ion: 75 Resp: 61037
 Ion Ratio Lower Upper
 75 100
 77 1.3 83.7 251.0#

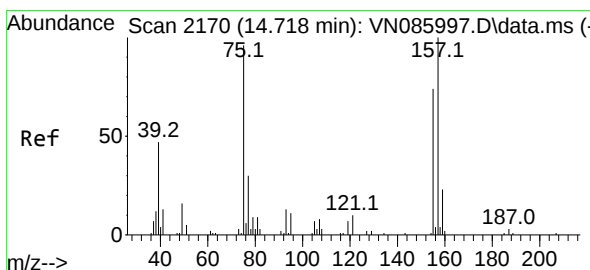
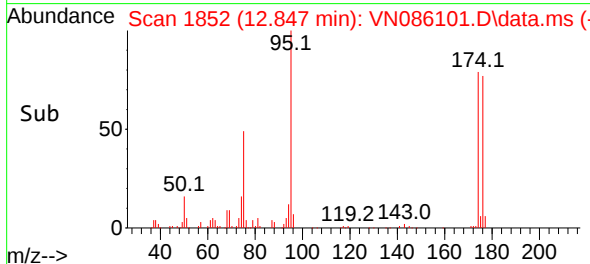
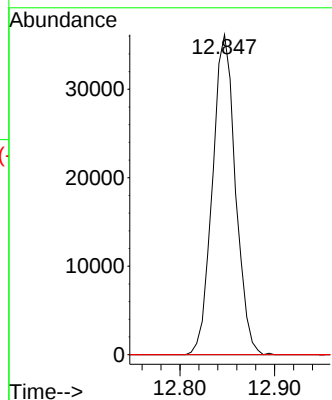
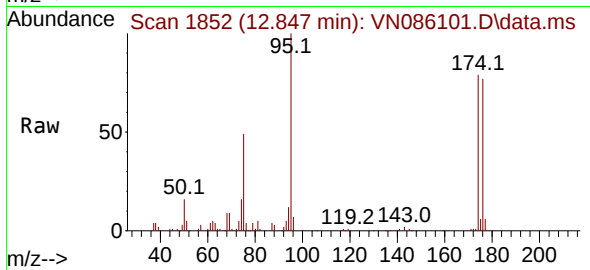




#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.891 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086101.D
 Acq: 25 Mar 2025 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167276ZHE#06

Tgt Ion: 75 Resp: 61037
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.0 99.0#
 89 0.0 36.9 55.3#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.242 ug/l
 RT: 14.700 min Scan# 2167
 Delta R.T. -0.018 min
 Lab File: VN086101.D
 Acq: 25 Mar 2025 15:28

Tgt Ion: 75 Resp: 124
 Ion Ratio Lower Upper
 75 100
 155 0.0 41.0 123.0#
 157 0.0 53.7 161.1#

