

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041825\
 Data File : VN086341.D
 Acq On : 18 Apr 2025 14:07
 Operator : JC\MD
 Sample : PB167623ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167623ZHE#06

Quant Time: Apr 19 02:24:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

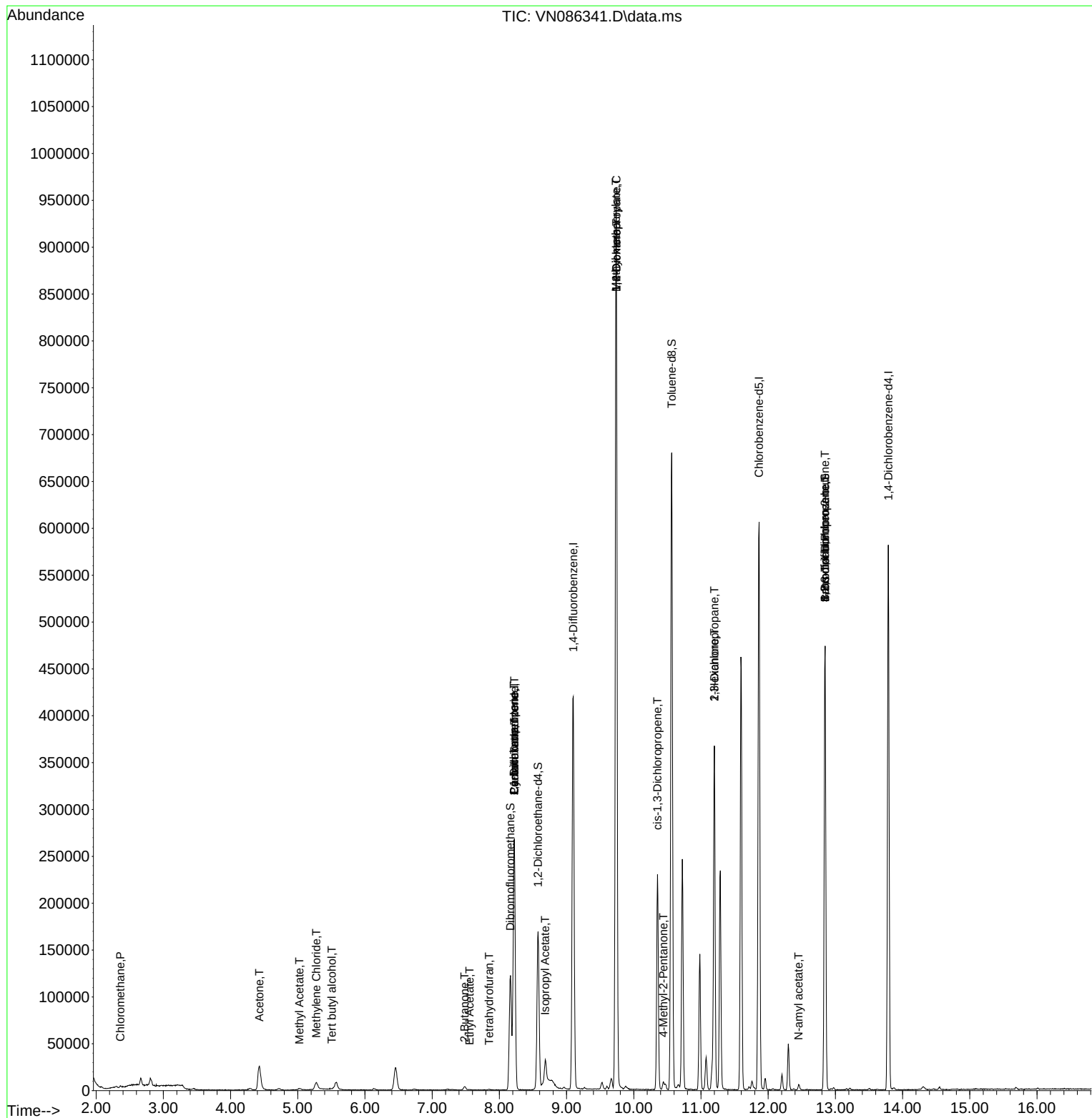
Internal Standards						
1) Pentafluorobenzene	8.224	168	196766	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	376539	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	353824	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	154059	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	139583	48.920	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.840%
35) Dibromofluoromethane	8.165	113	92133	52.721	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.440%
50) Toluene-d8	10.565	98	478953	51.281	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.560%
62) 4-Bromofluorobenzene	12.847	95	175618	51.552	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.100%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	921	0.272	ug/l #	74
11) Tert butyl alcohol	5.506	59	880	1.690	ug/l #	72
13) Acrolein	4.177	56	184	Below Cal	#	32
16) Acetone	4.430	43	51733	47.826	ug/l	99
18) Methyl Acetate	5.024	43	4032	1.177	ug/l #	86
20) Methylene Chloride	5.277	84	5816	2.205	ug/l #	91
25) 2-Butanone	7.483	43	6821	3.841	ug/l #	88
29) Tetrahydrofuran	7.847	42	551	0.464	ug/l #	41
31) Cyclohexane	8.224	56	4618	0.999	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	16267	4.660	ug/l #	50
37) Ethyl Acetate	7.559	43	1006	0.274	ug/l #	68
38) Carbon Tetrachloride	8.224	117	19926	5.994	ug/l #	16
43) Isopropyl Acetate	8.682	43	49612	5.761	ug/l #	77
45) 1,2-Dichloropropane	9.741	63	1179	0.431	ug/l #	43
48) Methyl methacrylate	9.735	41	84502	26.185	ug/l #	42
49) 1,4-Dioxane	9.741	88	55	1.002	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	5446	1.447	ug/l	97
54) cis-1,3-Dichloropropene	10.353	75	43592	9.438	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	3915	0.879	ug/l #	43
59) 2-Hexanone	11.200	43	71777	25.716	ug/l #	43
71) Bromoform	12.847	173	912	0.465	ug/l #	1
74) N-amyl acetate	12.453	43	4889	0.779	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	89589	24.642	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	89589	59.182	ug/l #	10

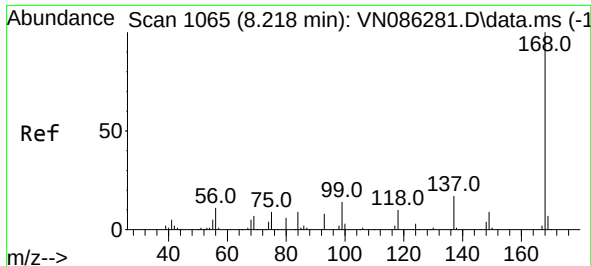
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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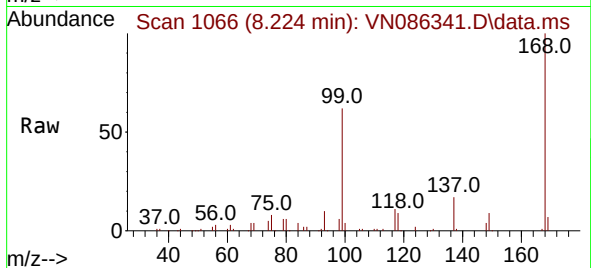
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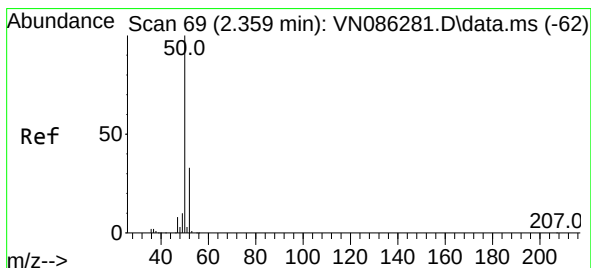
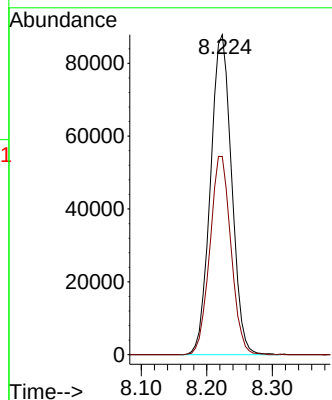
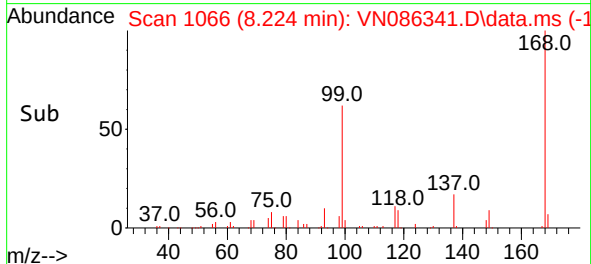


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#06

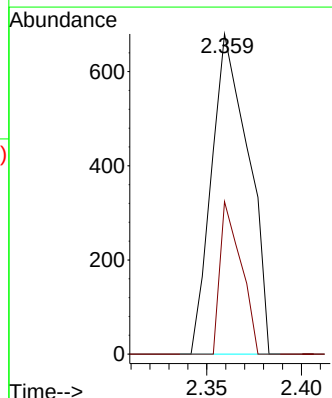
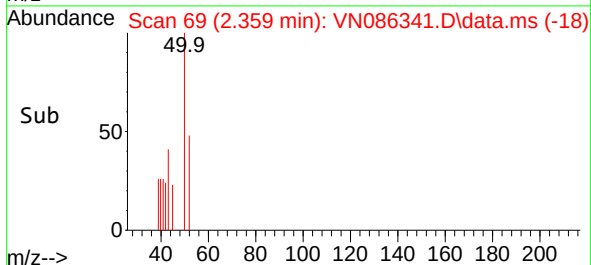
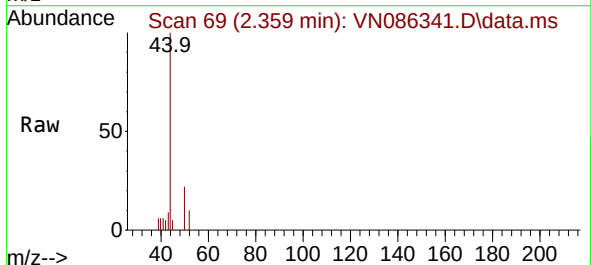


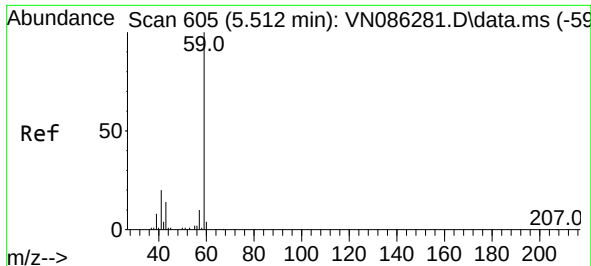
Tgt Ion:168 Resp: 196766
Ion Ratio Lower Upper
168 100
99 62.0 52.5 78.7



#3
Chloromethane
Concen: 0.272 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

Tgt Ion: 50 Resp: 921
Ion Ratio Lower Upper
50 100
52 47.6 26.5 39.7#

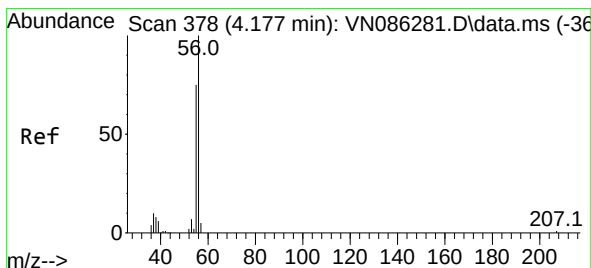
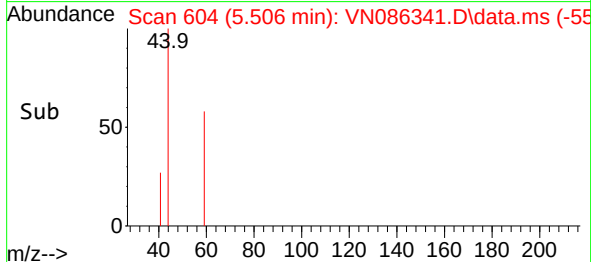
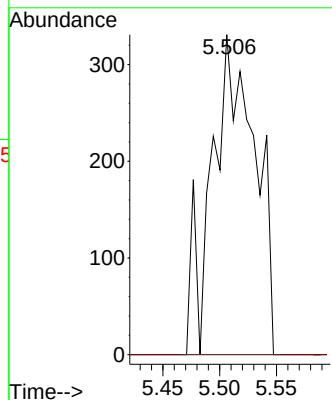
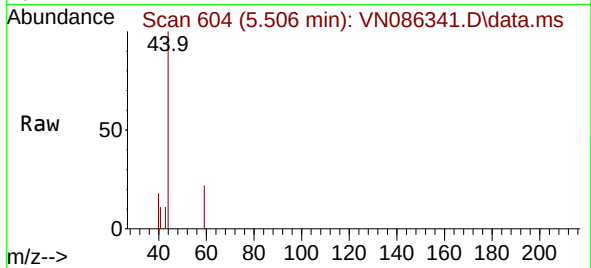




#11
Tert butyl alcohol
Concen: 1.690 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

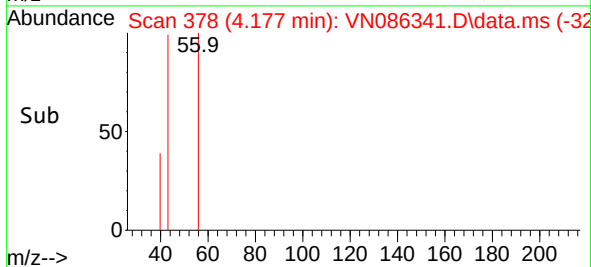
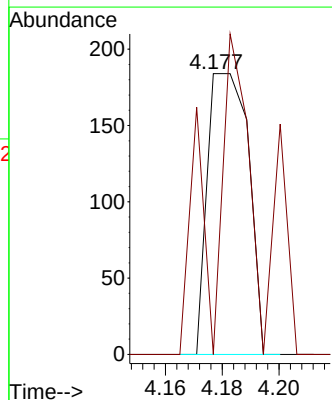
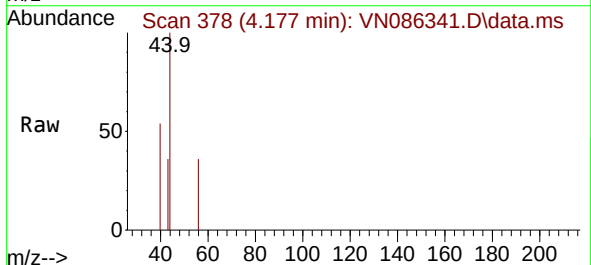
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#06

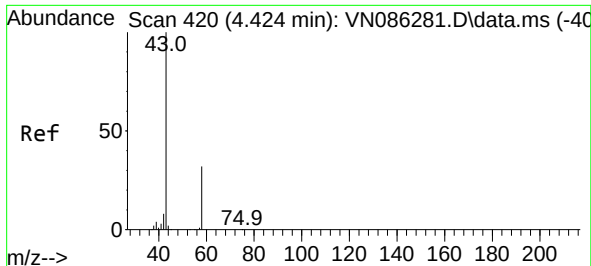
Tgt Ion: 59 Resp: 880
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 4.177 min Scan# 378
Delta R.T. -0.000 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

Tgt Ion: 56 Resp: 184
Ion Ratio Lower Upper
56 100
55 129.9 58.5 87.7#

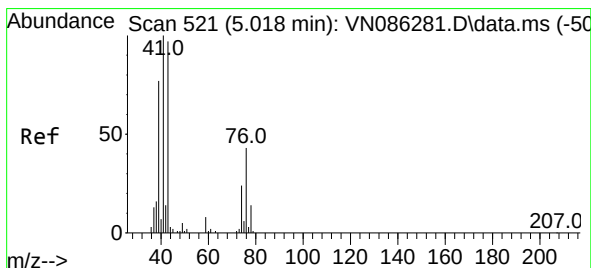
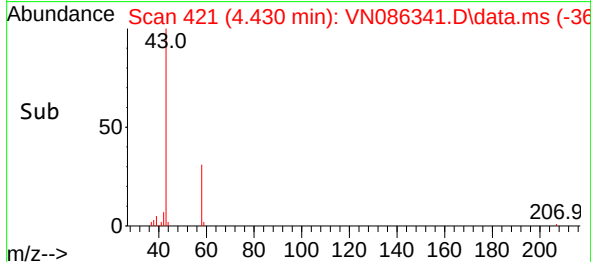
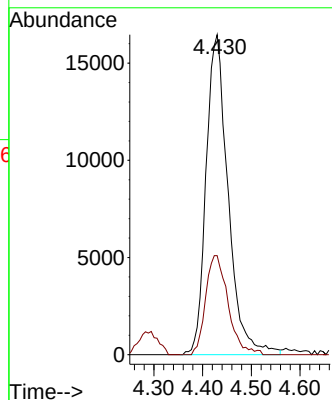
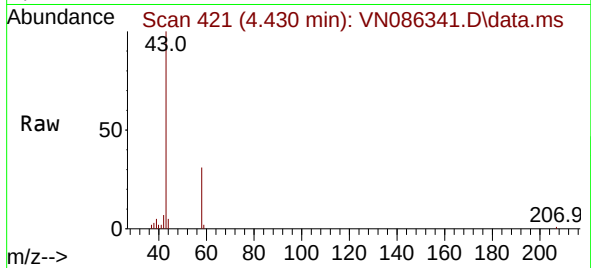




#16
 Acetone
 Concen: 47.826 ug/l
 RT: 4.430 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VN086341.D
 Acq: 18 Apr 2025 14:07

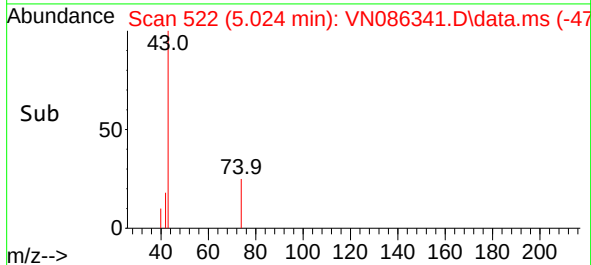
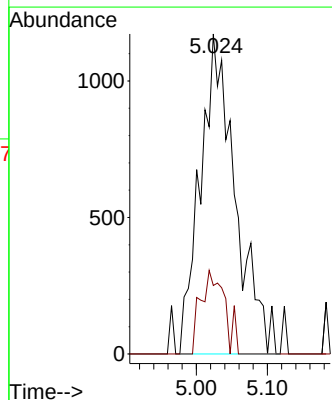
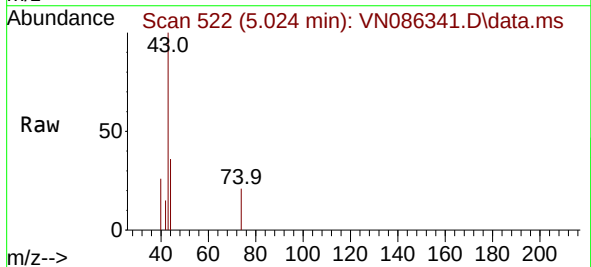
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167623ZHE#06

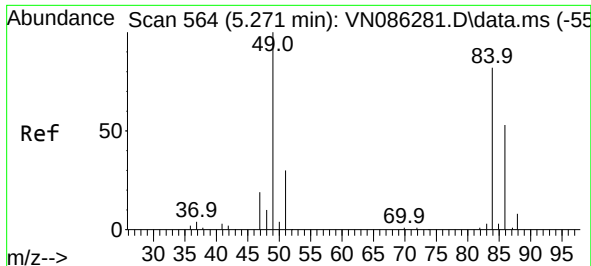
Tgt Ion: 43 Resp: 51733
 Ion Ratio Lower Upper
 43 100
 58 31.0 25.3 37.9



#18
 Methyl Acetate
 Concen: 1.177 ug/l
 RT: 5.024 min Scan# 522
 Delta R.T. 0.006 min
 Lab File: VN086341.D
 Acq: 18 Apr 2025 14:07

Tgt Ion: 43 Resp: 4032
 Ion Ratio Lower Upper
 43 100
 74 17.8 19.8 29.6#

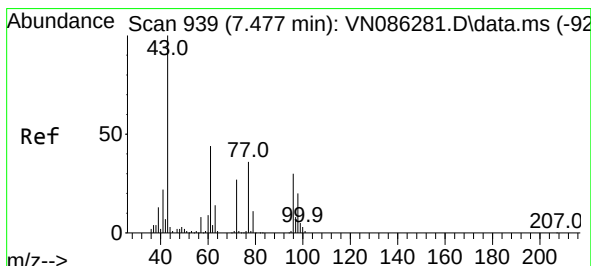
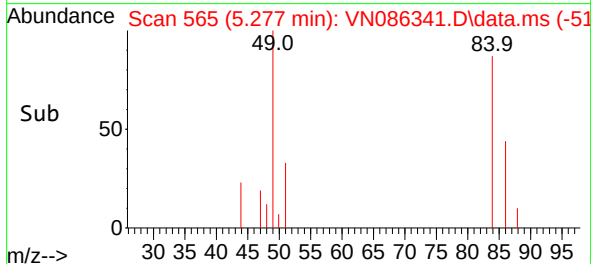
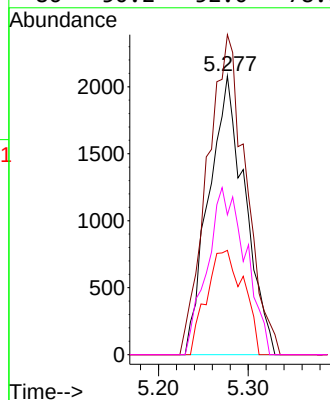
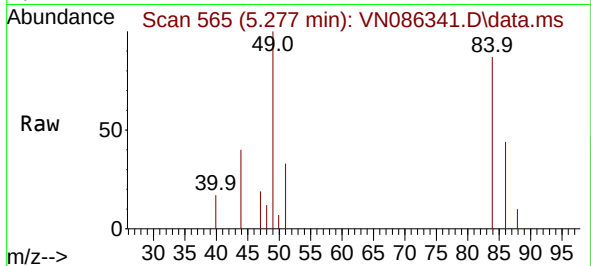




#20
Methylene Chloride
Concen: 2.205 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

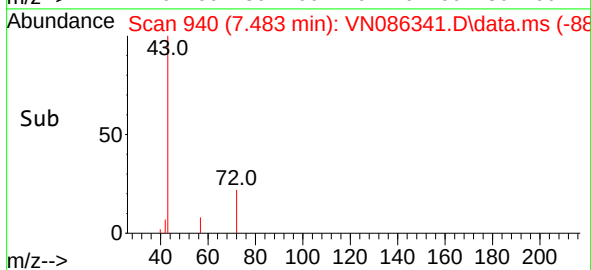
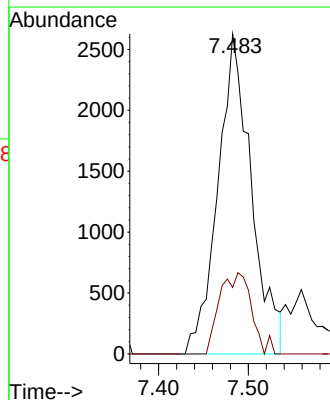
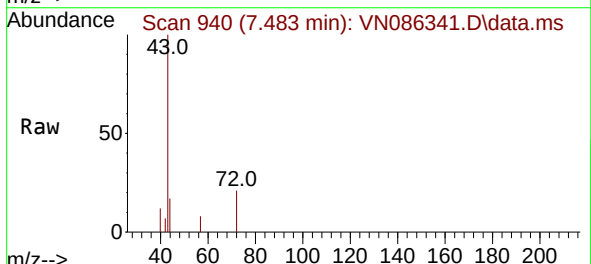
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#06

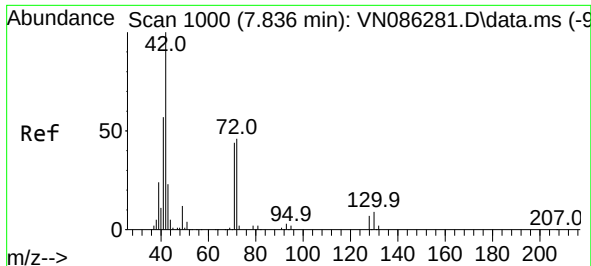
Tgt Ion: 84	Resp: 5816
Ion Ratio	Lower Upper
84 100	
49 114.8	98.2 147.2
51 37.4	29.8 44.6
86 50.2	52.0 78.0#



#25
2-Butanone
Concen: 3.841 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

Tgt Ion: 43	Resp: 6821		
Ion Ratio	Lower	Upper	
43 100			
72 20.8	21.7	32.5#	





#29

Tetrahydrofuran

Concen: 0.464 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN086341.D

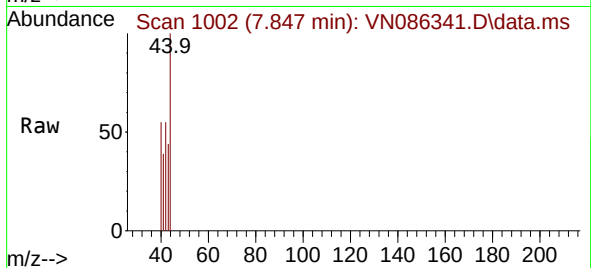
Acq: 18 Apr 2025 14:07

Instrument :

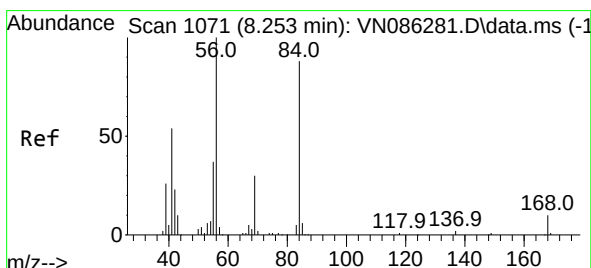
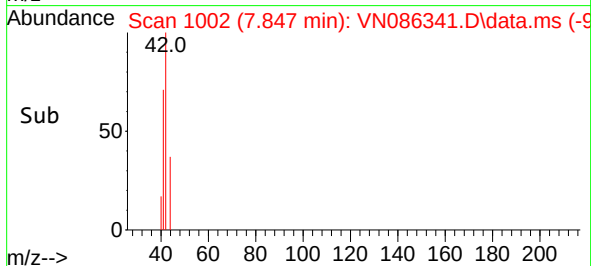
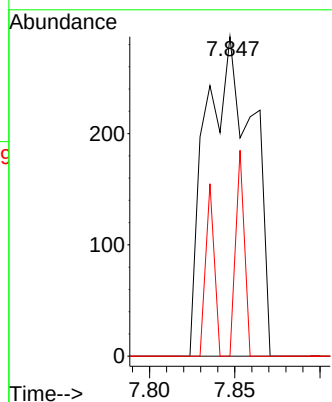
MSVOA_N

ClientSampleId :

PB167623ZHE#06



Tgt Ion:	42	Resp:	551
Ion Ratio	Lower	Upper	
42	100		
72	0.0	36.2	54.4#
71	11.8	34.0	51.0#



#31

Cyclohexane

Concen: 0.999 ug/l

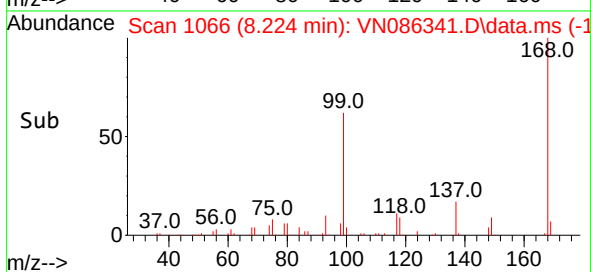
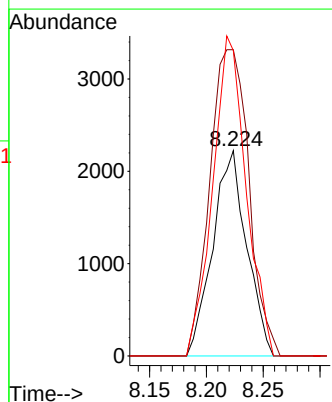
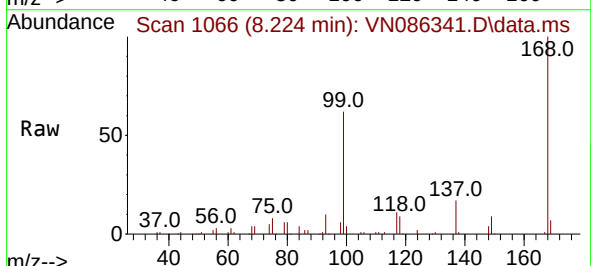
RT: 8.224 min Scan# 1066

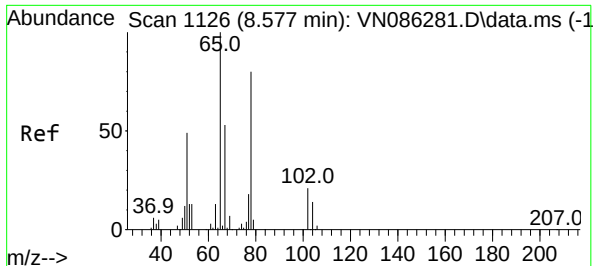
Delta R.T. -0.030 min

Lab File: VN086341.D

Acq: 18 Apr 2025 14:07

Tgt Ion:	56	Resp:	4618
Ion Ratio	Lower	Upper	
56	100		
69	149.1	24.2	36.2#
84	148.8	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 48.920 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086341.D

Acq: 18 Apr 2025 14:07

Instrument :

MSVOA_N

ClientSampleId :

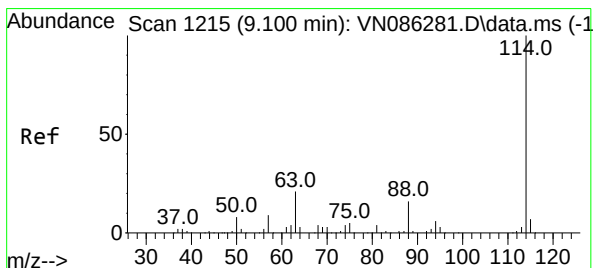
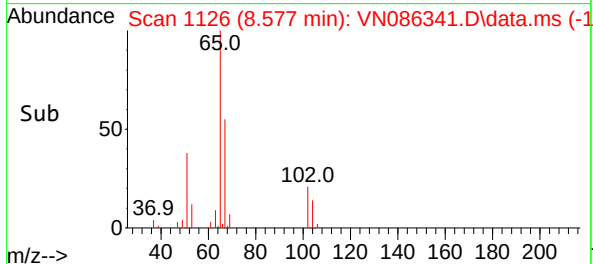
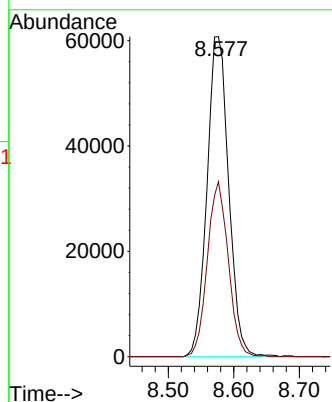
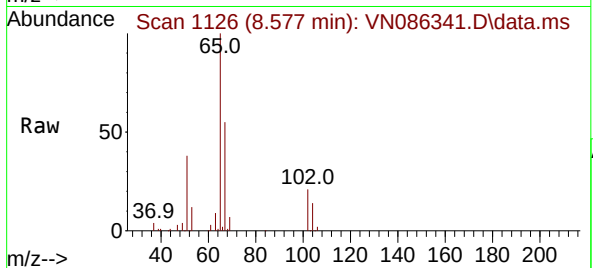
PB167623ZHE#06

Tgt Ion: 65 Resp: 139583

Ion Ratio Lower Upper

65 100

67 52.8 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086341.D

Acq: 18 Apr 2025 14:07

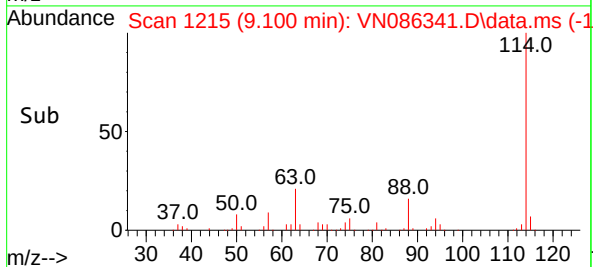
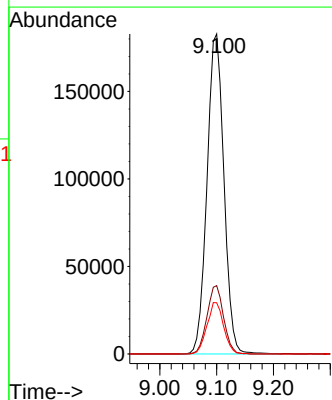
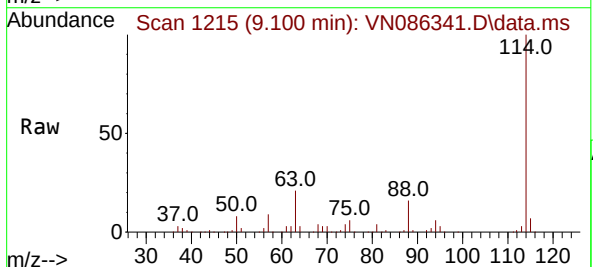
Tgt Ion: 114 Resp: 376539

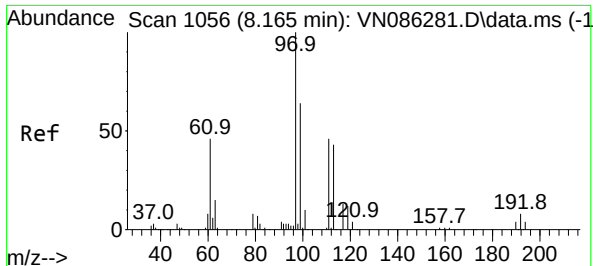
Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.6

88 16.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 52.721 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086341.D

Acq: 18 Apr 2025 14:07

Instrument :

MSVOA_N

ClientSampleId :

PB167623ZHE#06

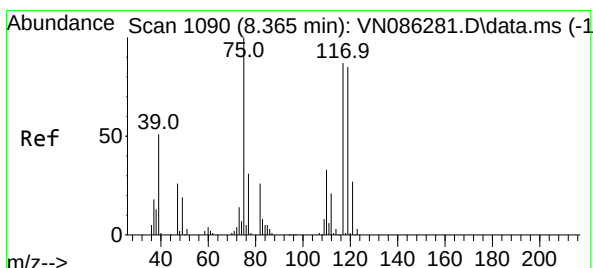
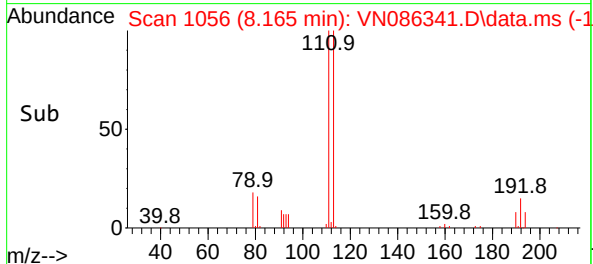
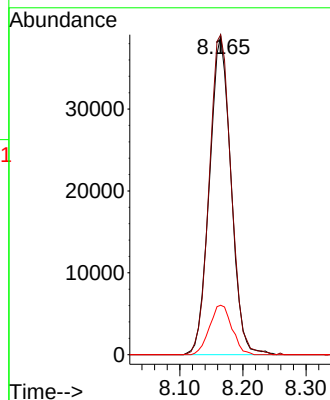
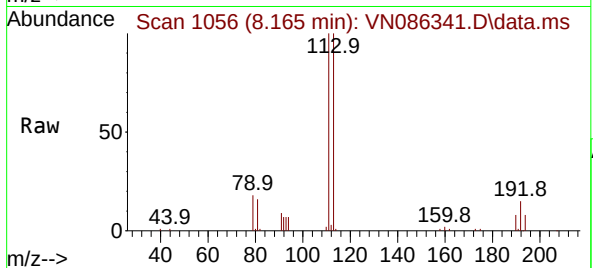
Tgt Ion:113 Resp: 92133

Ion Ratio Lower Upper

113 100

111 102.0 83.4 125.0

192 16.1 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.660 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086341.D

Acq: 18 Apr 2025 14:07

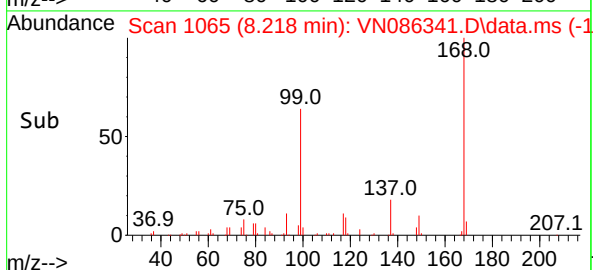
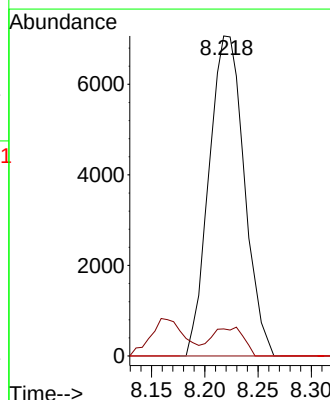
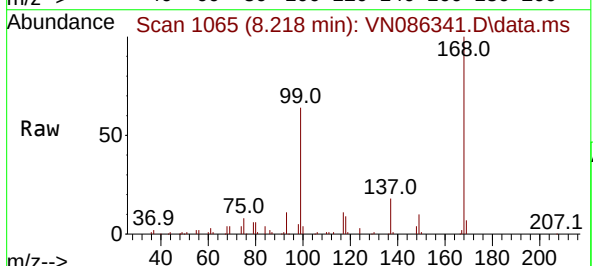
Tgt Ion: 75 Resp: 16267

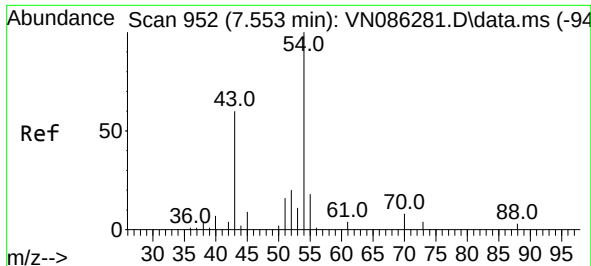
Ion Ratio Lower Upper

75 100

110 8.2 16.8 50.4#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 0.274 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN086341.D

Acq: 18 Apr 2025 14:07

Instrument :

MSVOA_N

ClientSampleId :

PB167623ZHE#06

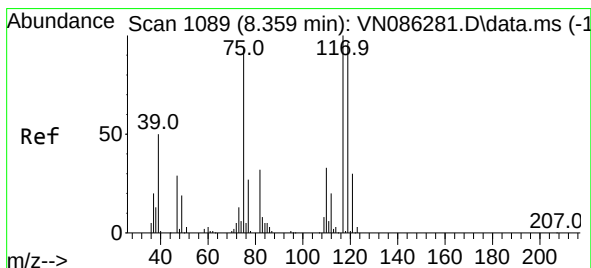
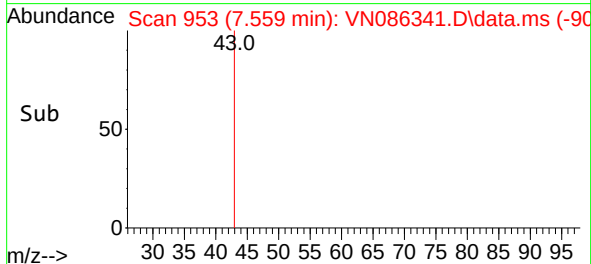
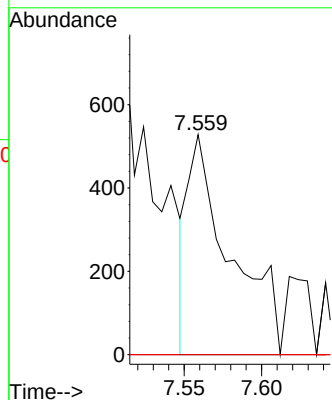
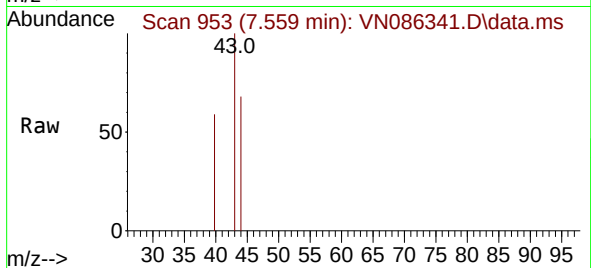
Tgt Ion: 43 Resp: 1006

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 5.994 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086341.D

Acq: 18 Apr 2025 14:07

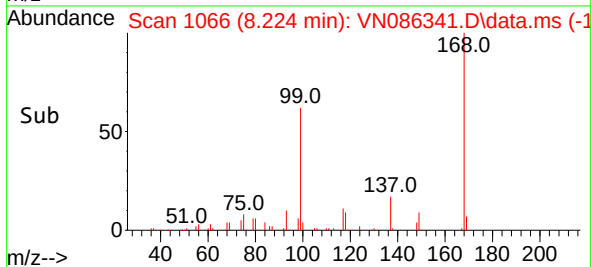
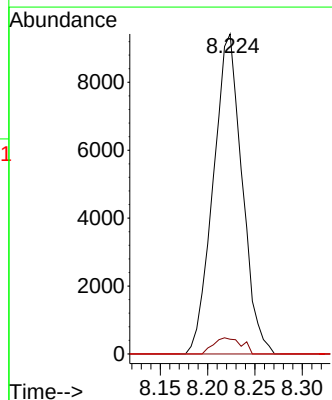
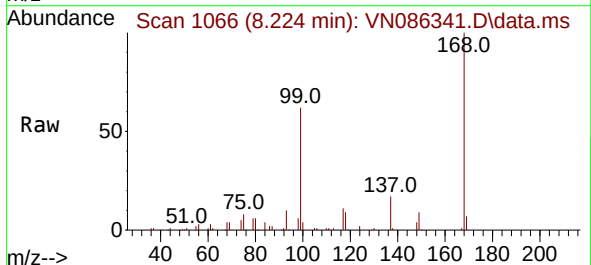
Tgt Ion: 117 Resp: 19926

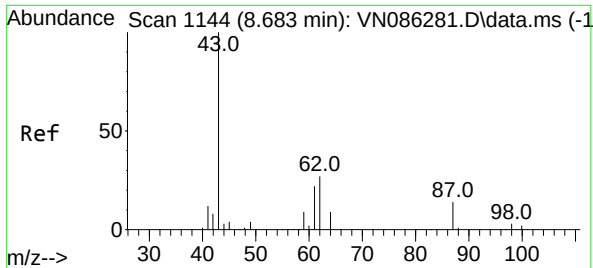
Ion Ratio Lower Upper

117 100

119 4.6 76.8 115.2#

121 0.0 23.8 35.8#

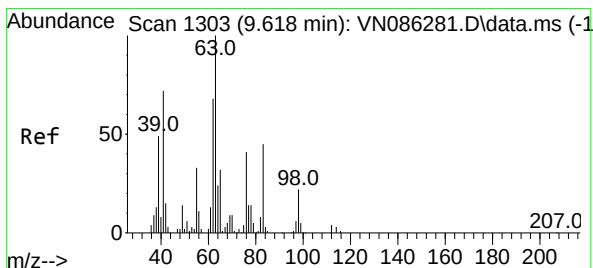
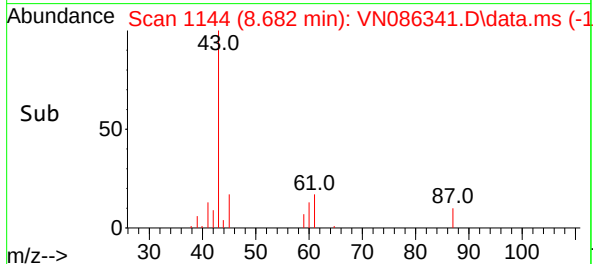
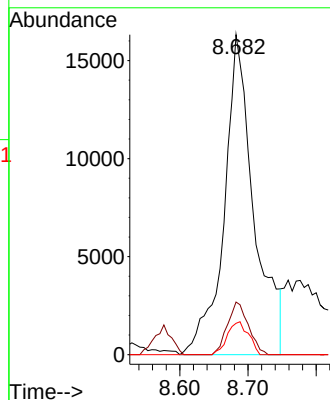
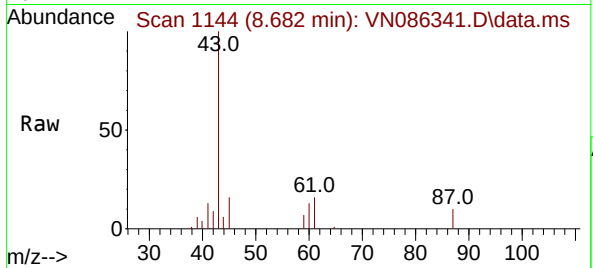




#43
Isopropyl Acetate
Concen: 5.761 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

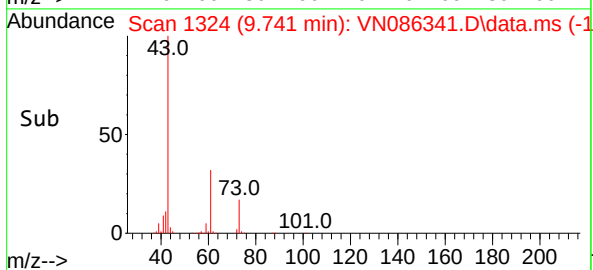
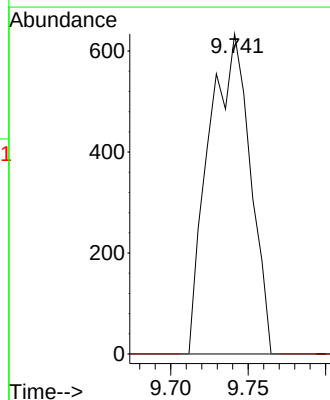
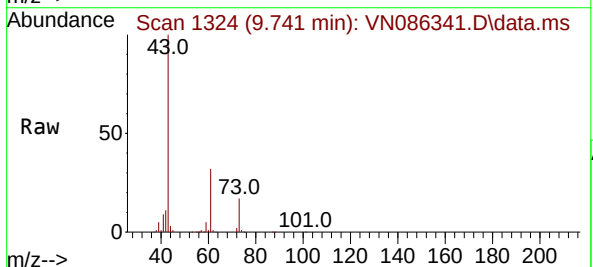
Instrument : MSVOA_N
ClientSampleId : PB167623ZHE#06

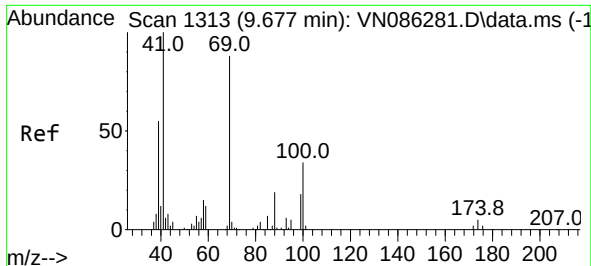
Tgt Ion: 43 Resp: 49612
Ion Ratio Lower Upper
43 100
61 11.6 20.5 30.7#
87 7.3 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.431 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

Tgt Ion: 63 Resp: 1179
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

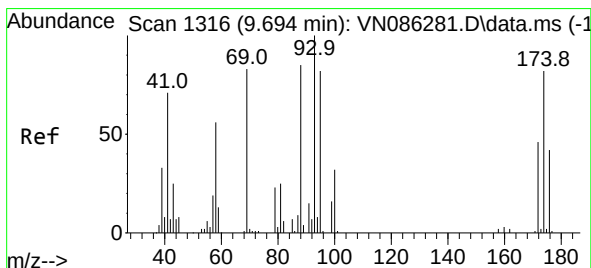
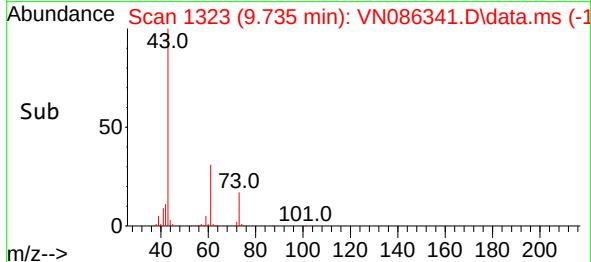
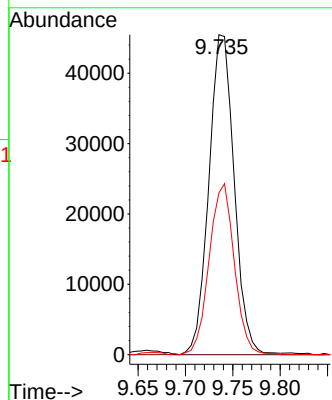
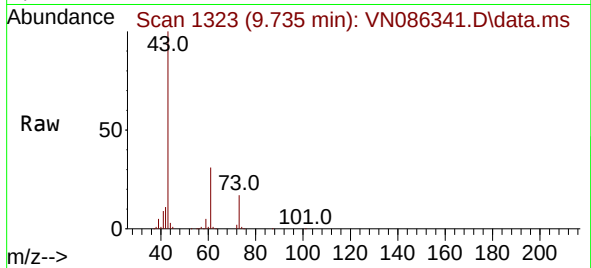




#48
Methyl methacrylate
Concen: 26.185 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

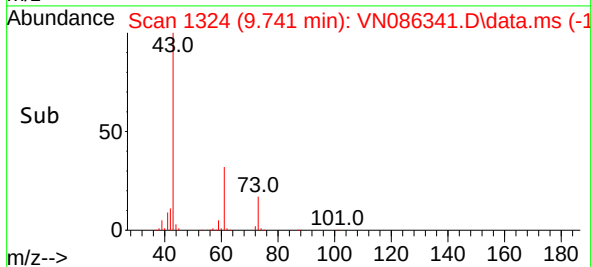
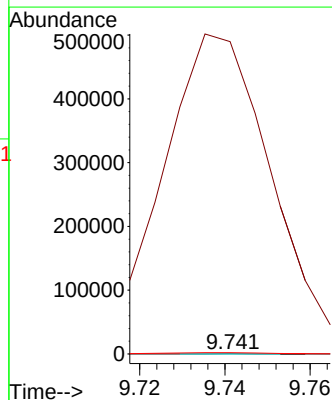
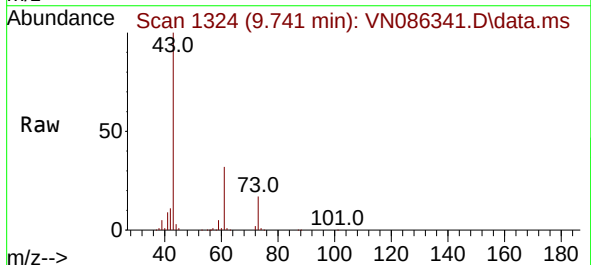
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#06

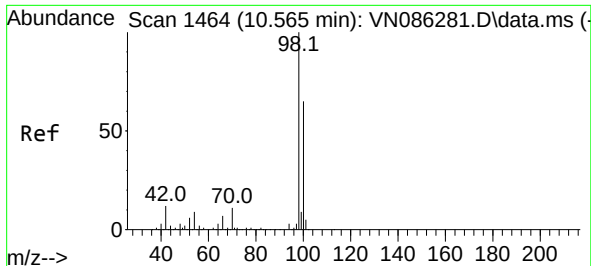
Tgt Ion: 41 Resp: 84502
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 53.1 45.2 67.8



#49
1,4-Dioxane
Concen: 1.002 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.047 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 1663918.2 23.8 35.8#
58 6678.2 57.4 86.2#

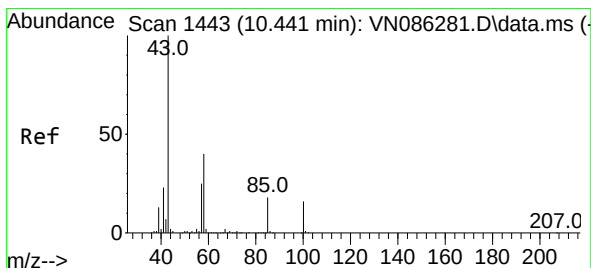
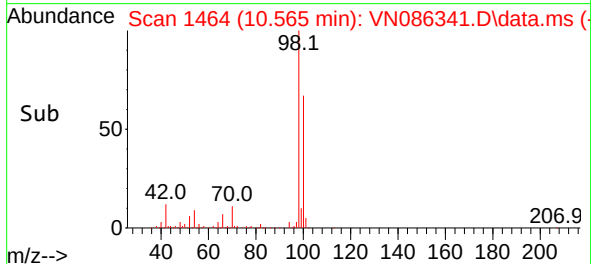
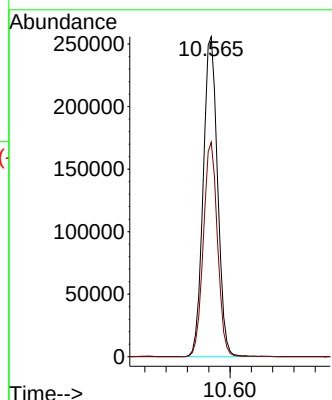
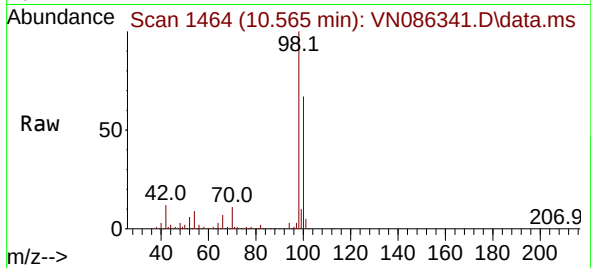




#50
Toluene-d8
Concen: 51.281 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

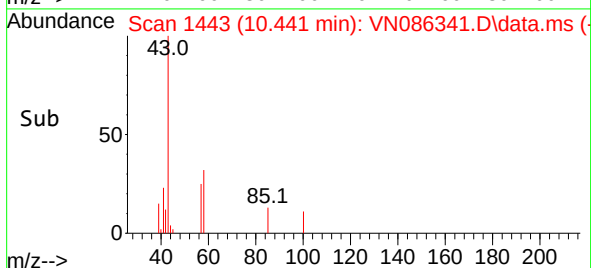
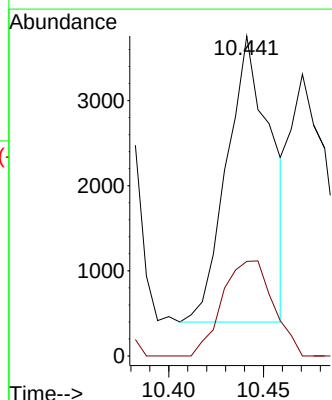
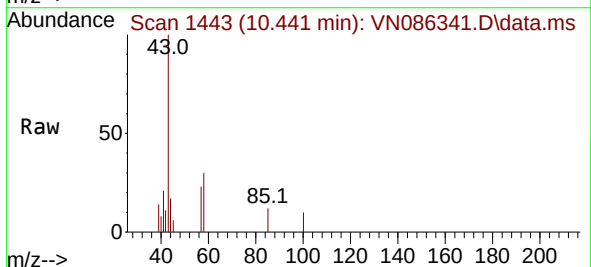
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#06

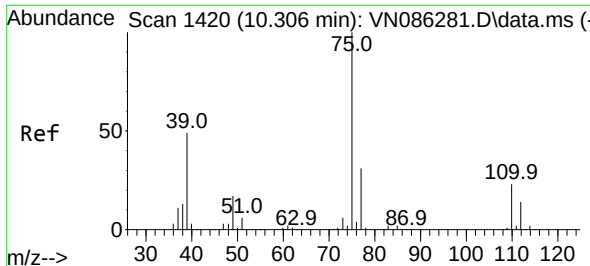
Tgt Ion: 98 Resp: 478953
Ion Ratio Lower Upper
98 100
100 65.8 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.447 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

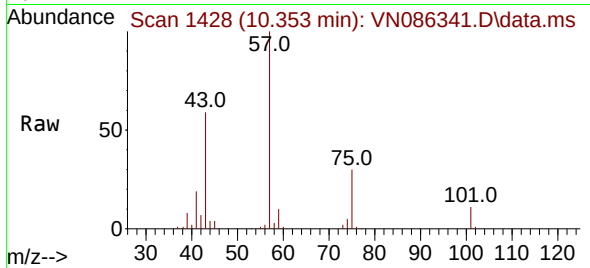
Tgt Ion: 43 Resp: 5446
Ion Ratio Lower Upper
43 100
58 38.2 32.2 48.4



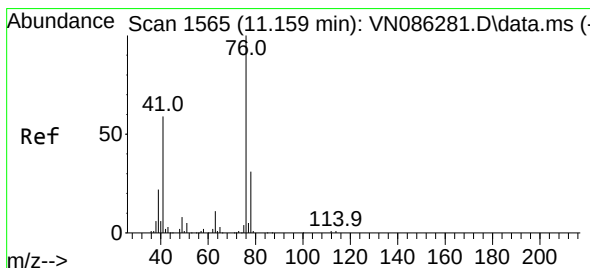
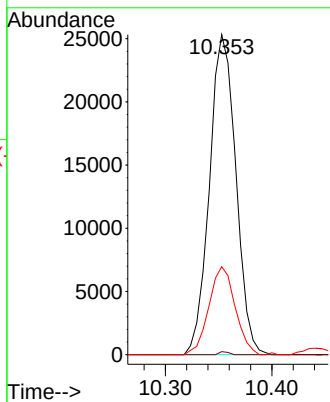
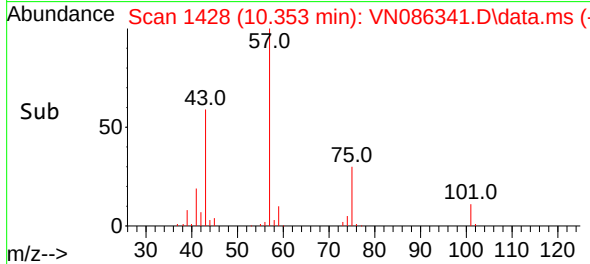


#54
 cis-1,3-Dichloropropene
 Concen: 9.438 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086341.D
 Acq: 18 Apr 2025 14:07

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167623ZHE#06

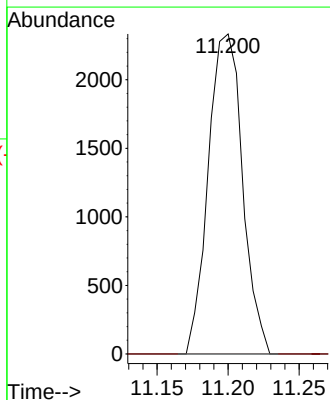
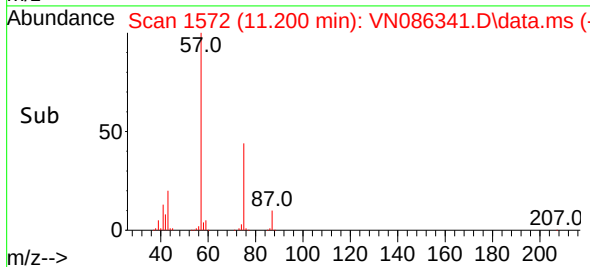
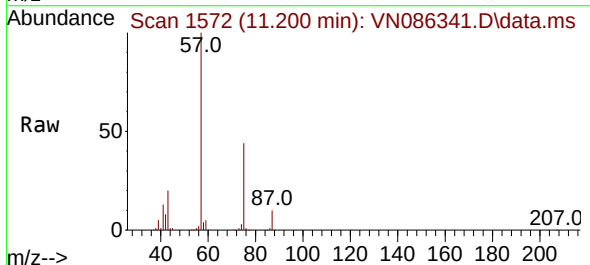


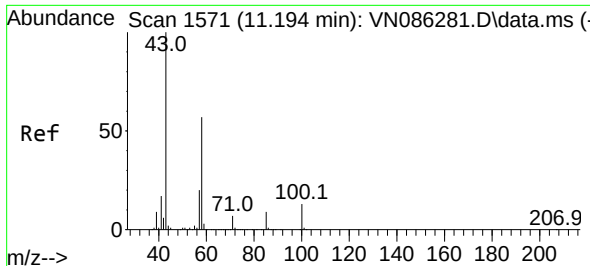
Tgt Ion: 75 Resp: 43592
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.2 37.8#
 39 27.5 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.879 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086341.D
 Acq: 18 Apr 2025 14:07

Tgt Ion: 76 Resp: 3915
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

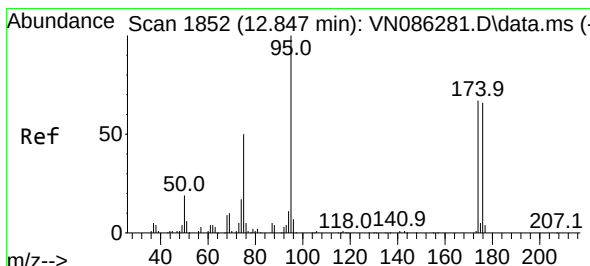
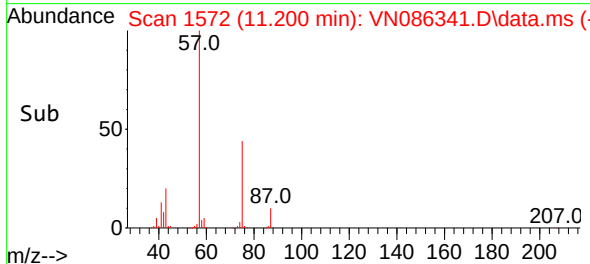
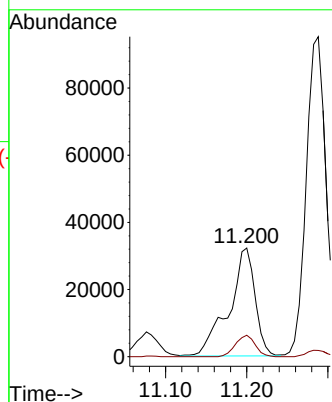
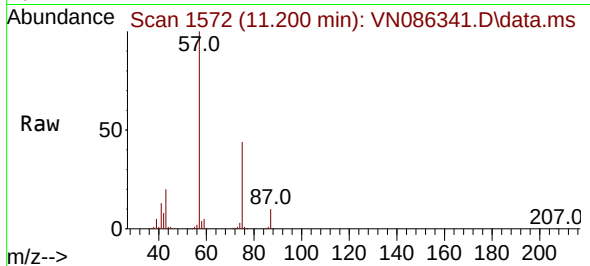




#59
2-Hexanone
Concen: 25.716 ug/l
RT: 11.200 min Scan# 1117
Delta R.T. 0.006 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

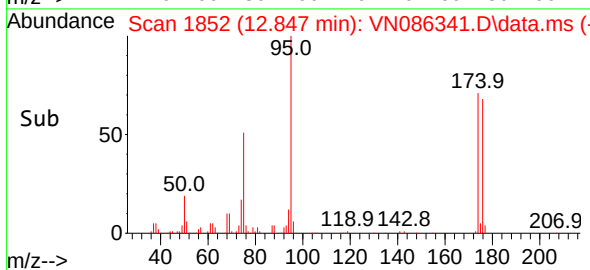
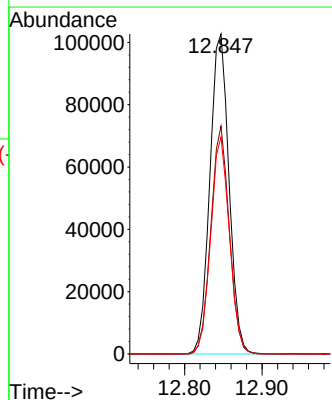
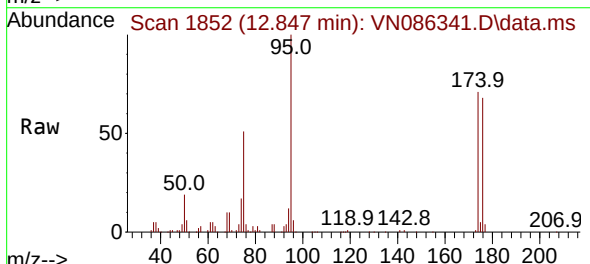
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#06

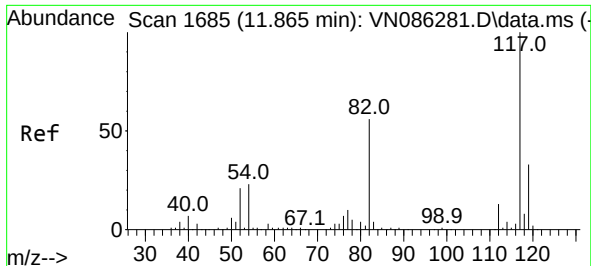
Tgt Ion: 43 Resp: 71777
Ion Ratio Lower Upper
43 100
58 15.0 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 51.552 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

Tgt Ion: 95 Resp: 175618
Ion Ratio Lower Upper
95 100
174 69.0 0.0 133.4
176 66.2 0.0 129.2

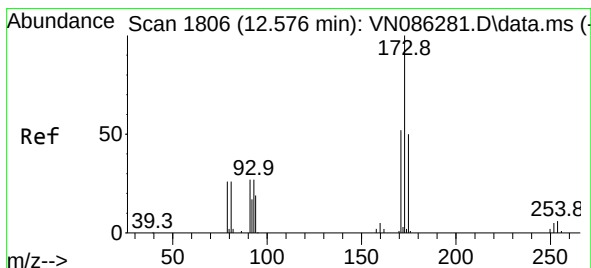
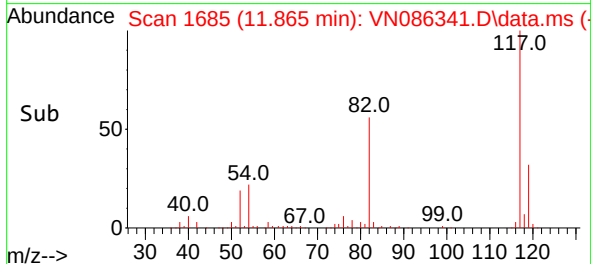
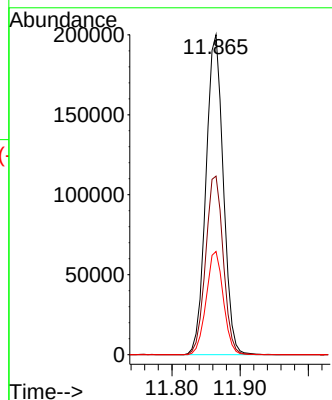
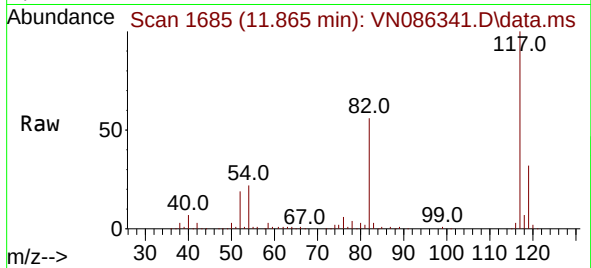




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

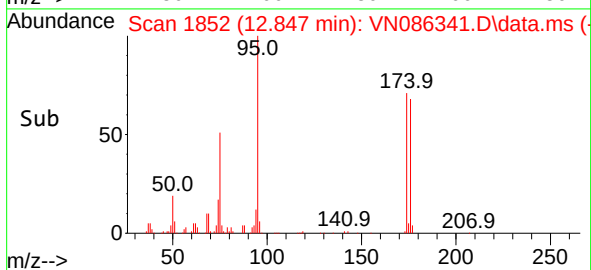
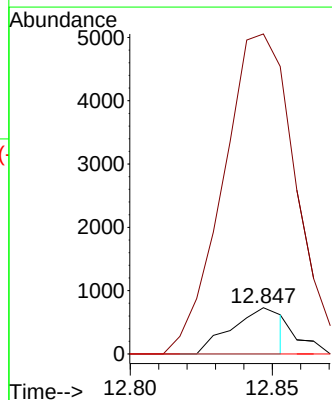
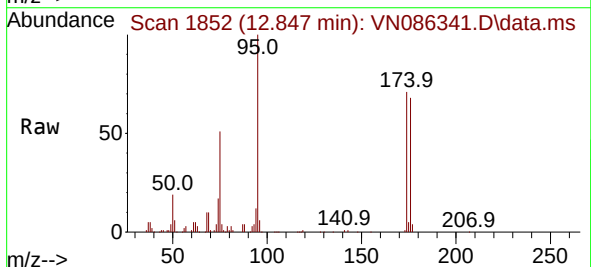
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#06

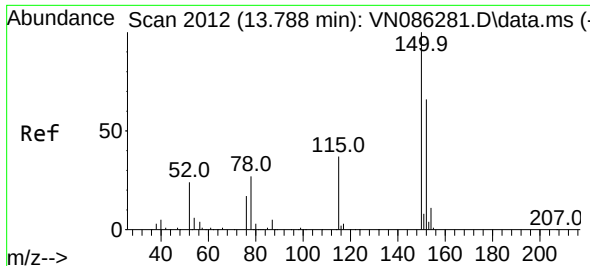
Tgt Ion:117 Resp: 353824
Ion Ratio Lower Upper
117 100
82 55.8 44.7 67.1
119 32.2 26.4 39.6



#71
Bromoform
Concen: 0.465 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

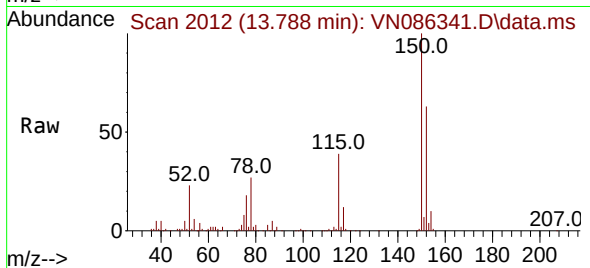
Tgt Ion:173 Resp: 912
Ion Ratio Lower Upper
173 100
175 812.4 24.6 73.6#
254 0.0 0.0 0.0



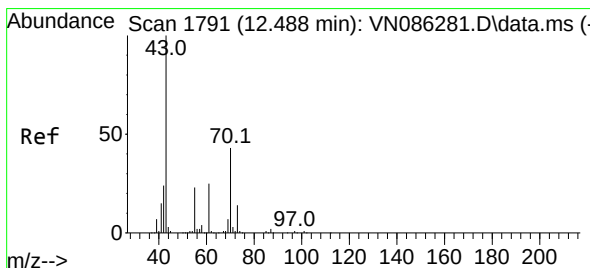
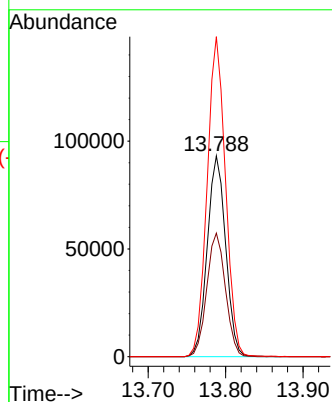
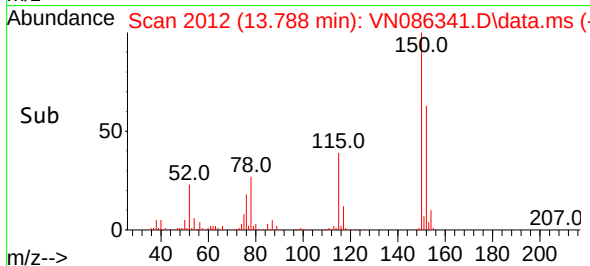


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#06

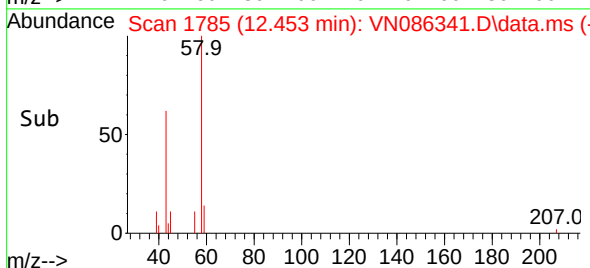
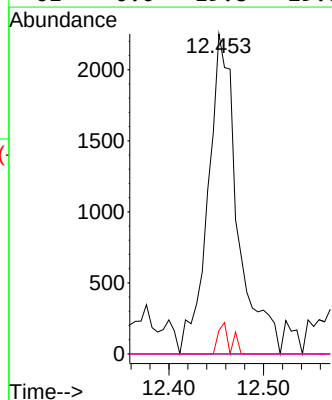
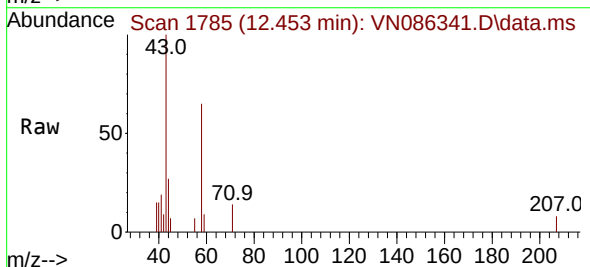


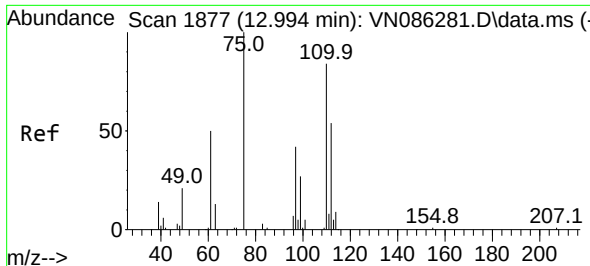
Tgt Ion:152 Resp: 154059
Ion Ratio Lower Upper
152 100
115 62.3 31.9 95.9
150 158.5 0.0 352.0



#74
N-ethyl acetate
Concen: 0.779 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

Tgt Ion: 43 Resp: 4889
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.4#
55 3.9 19.0 28.4#
61 0.0 19.8 29.8#

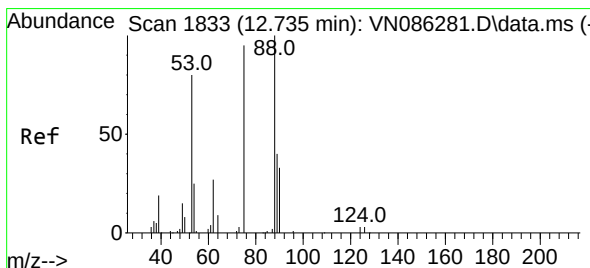
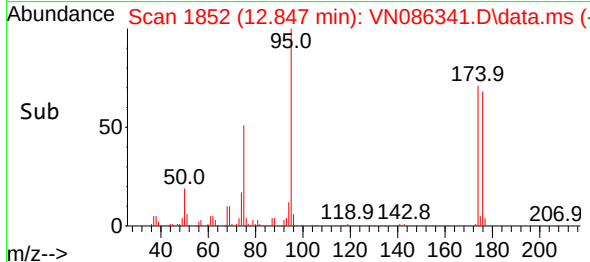
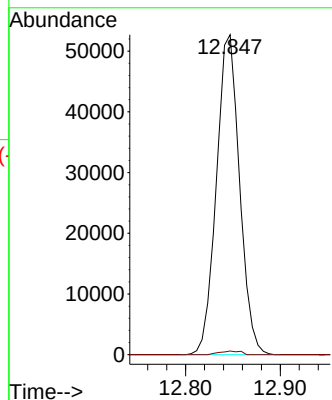
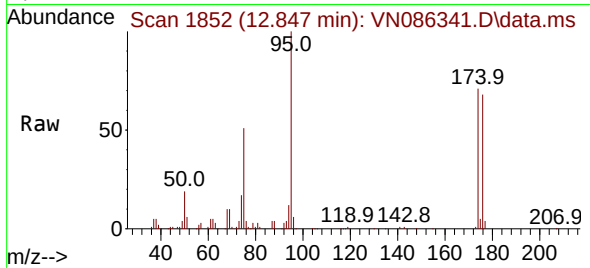




#76
1,2,3-Trichloropropane
Concen: 24.642 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#06

Tgt Ion: 75 Resp: 89589
Ion Ratio Lower Upper
75 100
77 1.1 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.182 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086341.D
Acq: 18 Apr 2025 14:07

Tgt Ion: 75 Resp: 89589
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

