

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041825\
 Data File : VN086349.D
 Acq On : 18 Apr 2025 17:20
 Operator : JC\MD
 Sample : PB167623ZHE#14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167623ZHE#14

Quant Time: Apr 19 02:28:39 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)

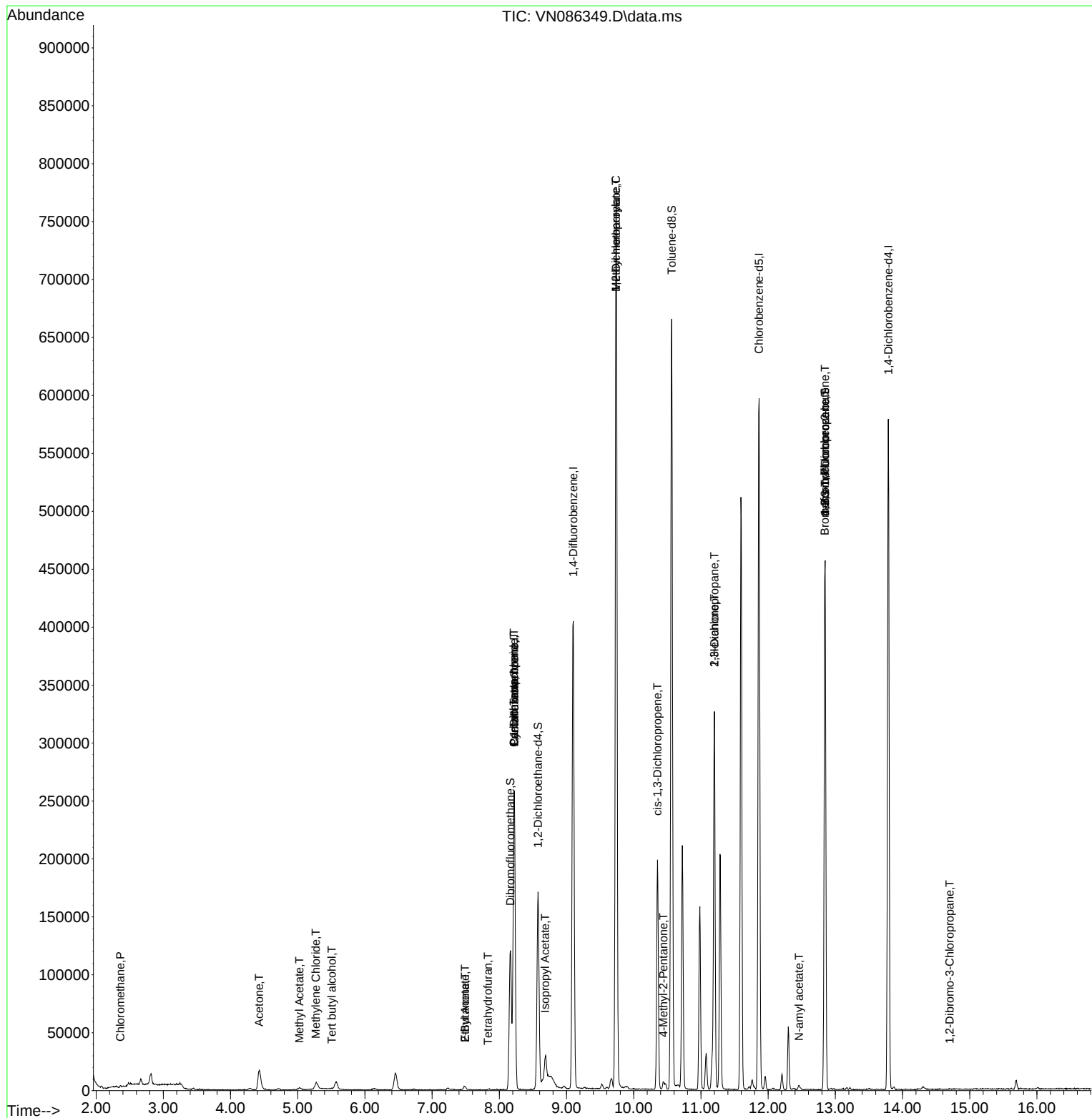
Internal Standards						
1) Pentafluorobenzene	8.224	168	189582	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	364544	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	346752	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	155070	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	138364	50.331	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.660%	
35) Dibromofluoromethane	8.165	113	90950	53.756	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.520%	
50) Toluene-d8	10.565	98	468518	51.814	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.620%	
62) 4-Bromofluorobenzene	12.847	95	173133	52.495	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 104.980%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.360	50	841	0.257	ug/l #	86
11) Tert butyl alcohol	5.506	59	267	0.532	ug/l #	72
13) Acrolein	4.201	56	94	Below Cal	#	13
16) Acetone	4.424	43	34711	31.532	ug/l	95
18) Methyl Acetate	5.024	43	4264	1.292	ug/l #	66
20) Methylene Chloride	5.271	84	4491	1.767	ug/l	94
25) 2-Butanone	7.489	43	6223	3.637	ug/l	98
29) Tetrahydrofuran	7.830	42	270	0.236	ug/l #	32
31) Cyclohexane	8.224	56	4580	1.028	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	16268	4.814	ug/l #	50
37) Ethyl Acetate	7.489	43	6223	1.749	ug/l #	68
38) Carbon Tetrachloride	8.218	117	19141	5.948	ug/l #	17
43) Isopropyl Acetate	8.683	43	47483	5.673	ug/l #	74
45) 1,2-Dichloropropane	9.736	63	1006	0.380	ug/l #	43
48) Methyl methacrylate	9.736	41	69391	22.210	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	4555	1.250	ug/l	95
54) cis-1,3-Dichloropropene	10.353	75	37266	8.334	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3442	0.798	ug/l #	43
59) 2-Hexanone	11.200	43	66734	24.696	ug/l #	41
71) Bromoform	12.841	173	725	0.377	ug/l #	1
74) N-amyl acetate	12.459	43	2750	0.435	ug/l #	45
76) 1,2,3-Trichloropropane	12.847	75	88525	24.191	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	88525	58.098	ug/l #	10
92) 1,2-Dibromo-3-Chloropr...	14.700	75	356	0.484	ug/l #	5

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

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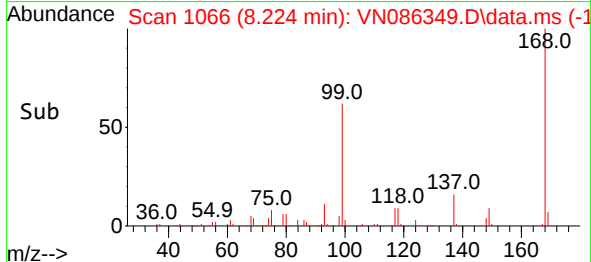
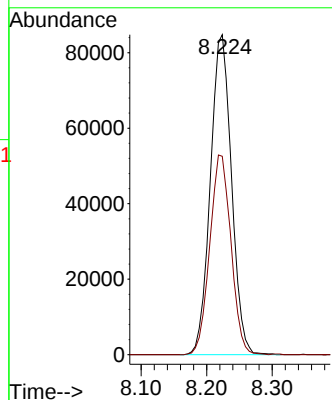
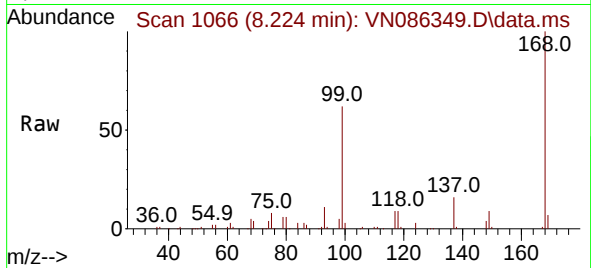




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

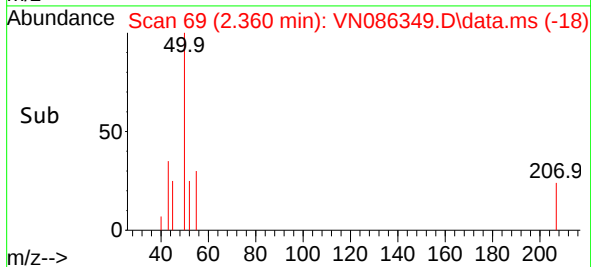
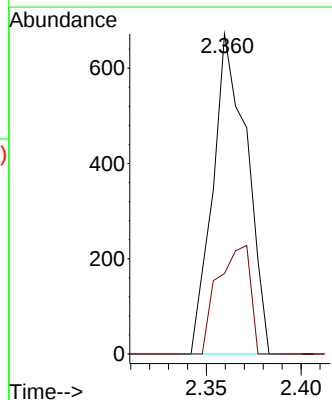
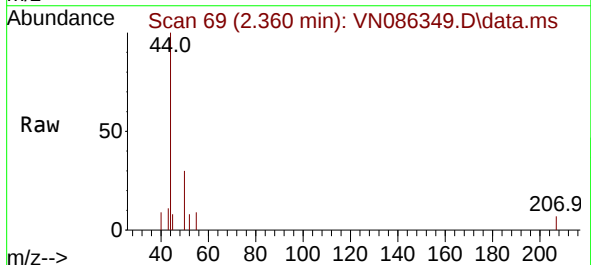
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#14

Tgt Ion:168 Resp: 189582
Ion Ratio Lower Upper
168 100
99 62.0 52.5 78.7



#3
Chloromethane
Concen: 0.257 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

Tgt Ion: 50 Resp: 841
Ion Ratio Lower Upper
50 100
52 25.1 26.5 39.7#

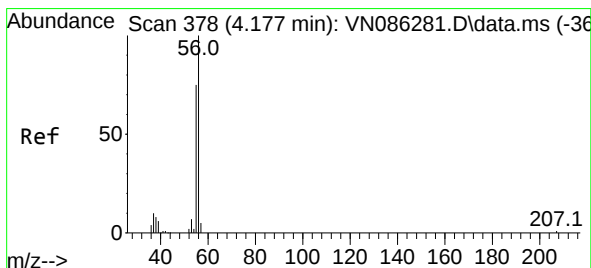
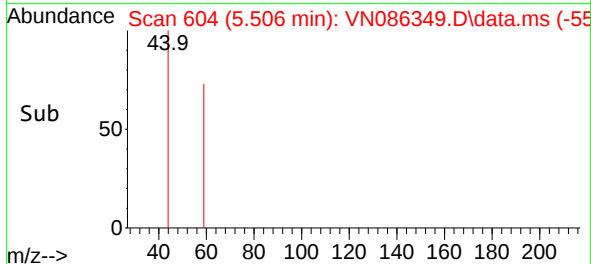
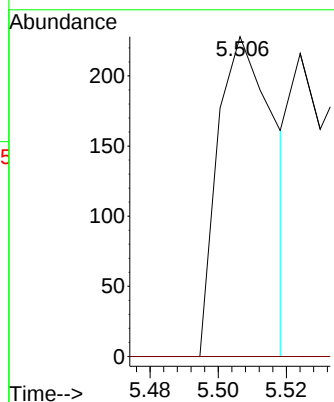
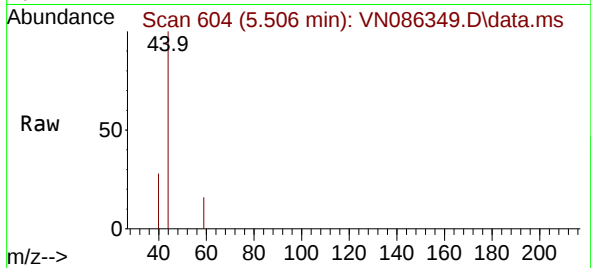




#11
Tert butyl alcohol
Concen: 0.532 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

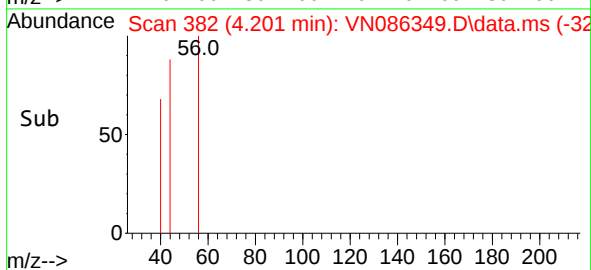
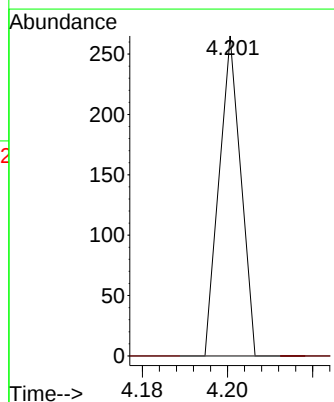
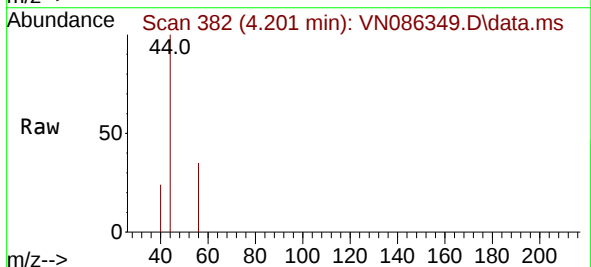
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#14

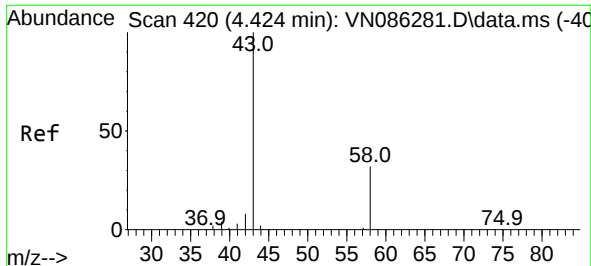
Tgt Ion: 59 Resp: 267
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 4.201 min Scan# 382
Delta R.T. 0.024 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

Tgt Ion: 56 Resp: 94
Ion Ratio Lower Upper
56 100
55 0.0 58.5 87.7#

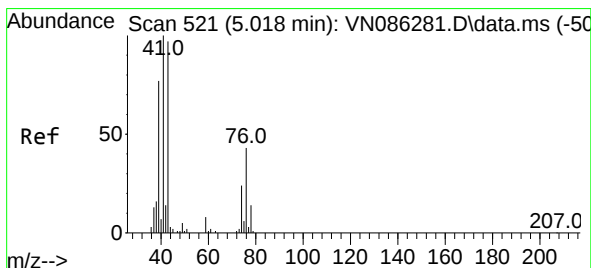
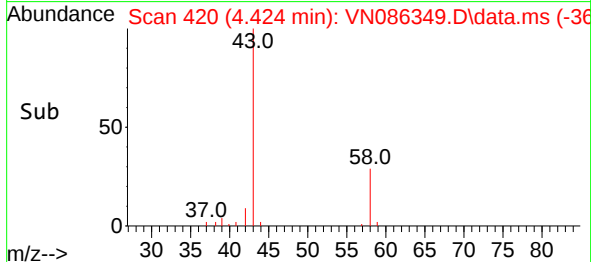
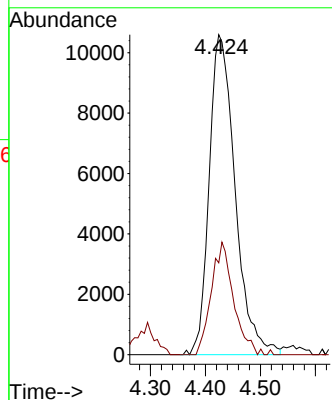
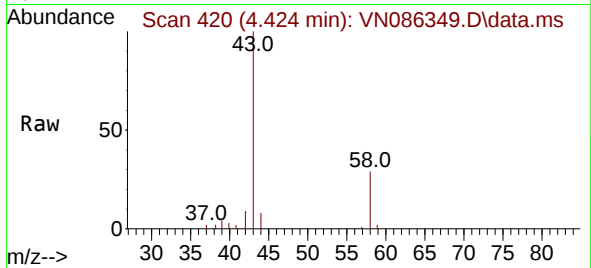




#16
Acetone
Concen: 31.532 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

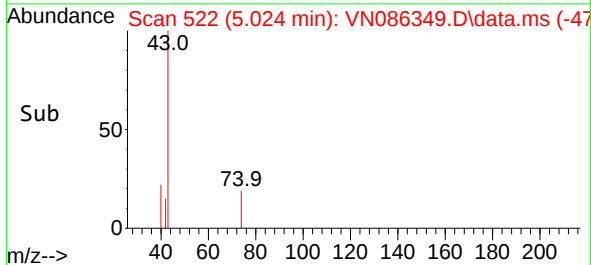
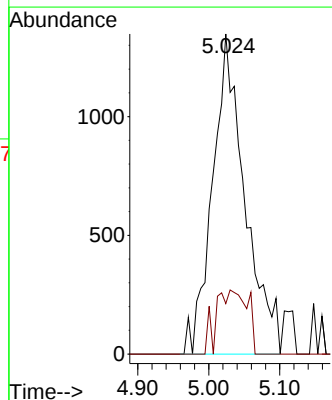
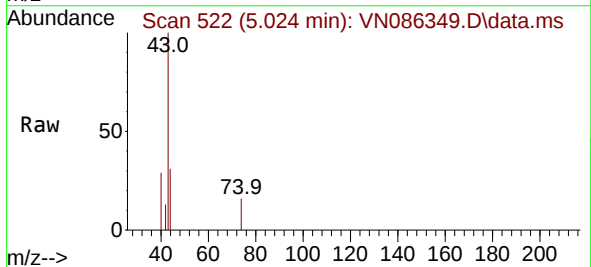
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#14

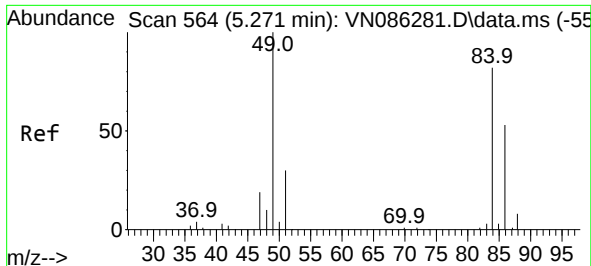
Tgt Ion: 43 Resp: 34711
Ion Ratio Lower Upper
43 100
58 28.7 25.3 37.9



#18
Methyl Acetate
Concen: 1.292 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

Tgt Ion: 43 Resp: 4264
Ion Ratio Lower Upper
43 100
74 7.6 19.8 29.6#

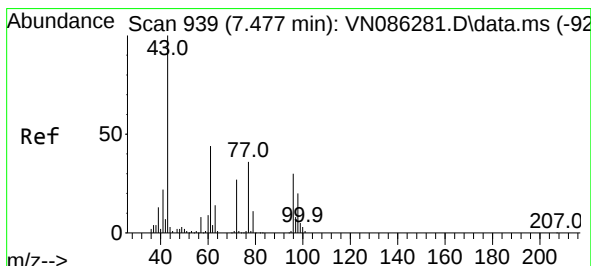
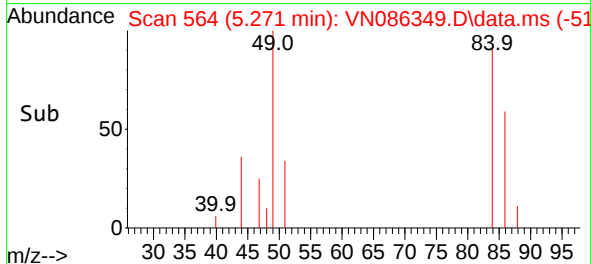
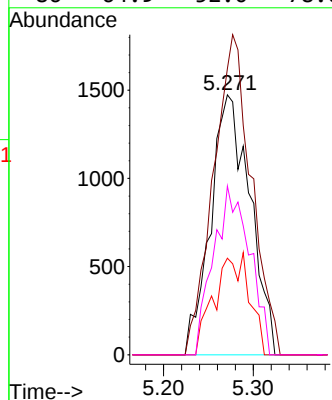
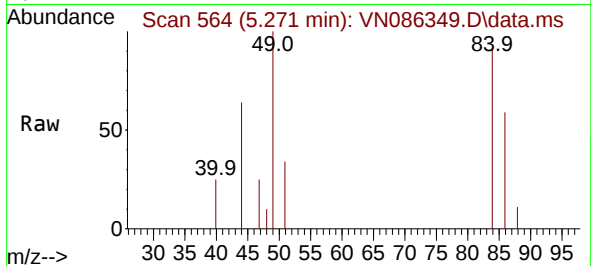




#20
Methylene Chloride
Concen: 1.767 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

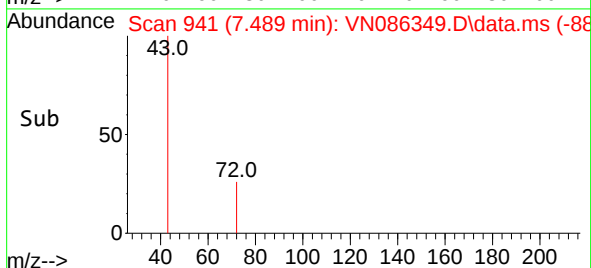
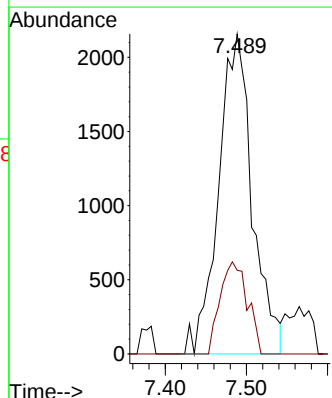
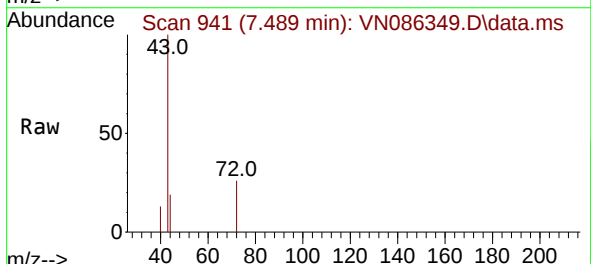
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#14

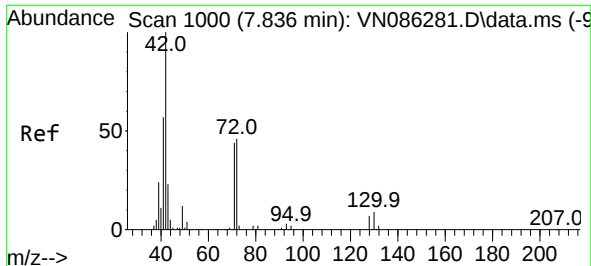
Tgt Ion:	84	Resp:	4491
Ion	Ratio	Lower	Upper
84	100		
49	110.1	98.2	147.2
51	37.2	29.8	44.6
86	64.9	52.0	78.0



#25
2-Butanone
Concen: 3.637 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

Tgt Ion:	43	Resp:	6223
Ion	Ratio	Lower	Upper
43	100		
72	26.1	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.236 ug/l

RT: 7.830 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086349.D

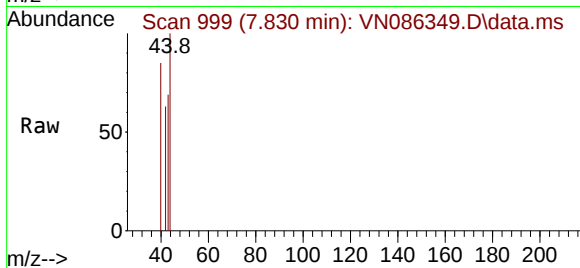
Acq: 18 Apr 2025 17:20

Instrument :

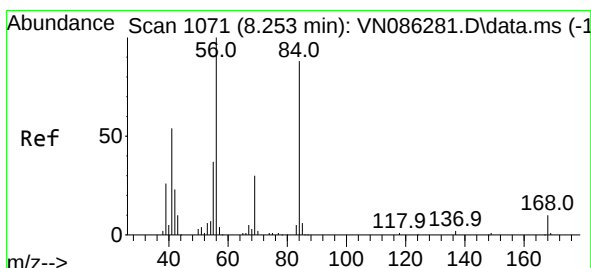
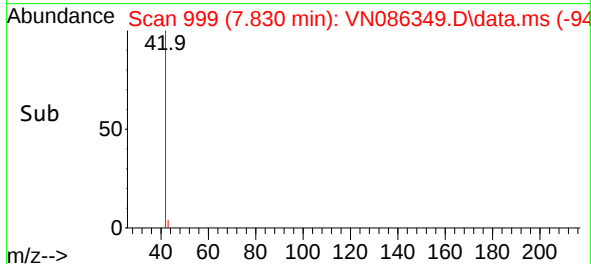
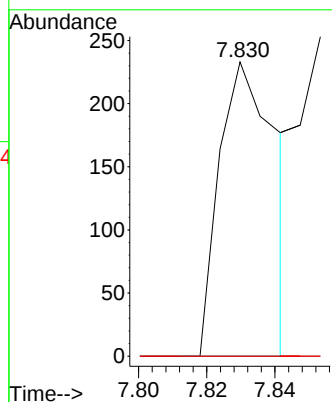
MSVOA_N

ClientSampleId :

PB167623ZHE#14



Tgt Ion:	42	Resp:	270
Ion Ratio	Lower	Upper	
42	100		
72	0.0	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 1.028 ug/l

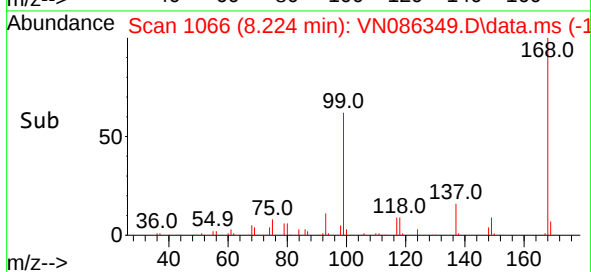
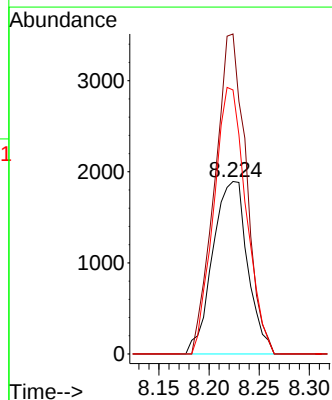
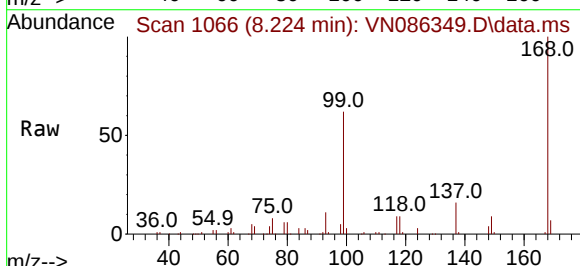
RT: 8.224 min Scan# 1066

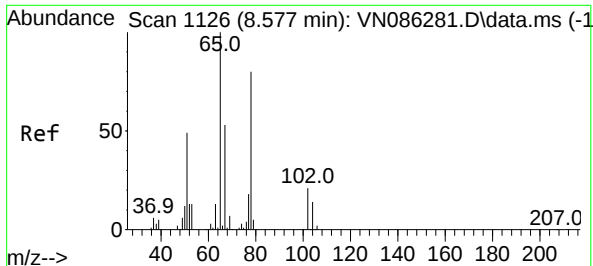
Delta R.T. -0.029 min

Lab File: VN086349.D

Acq: 18 Apr 2025 17:20

Tgt Ion:	56	Resp:	4580
Ion Ratio	Lower	Upper	
56	100		
69	185.6	24.2	36.2#
84	153.1	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 50.331 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086349.D

Acq: 18 Apr 2025 17:20

Instrument :

MSVOA_N

ClientSampleId :

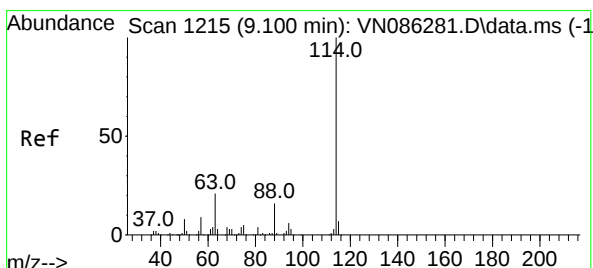
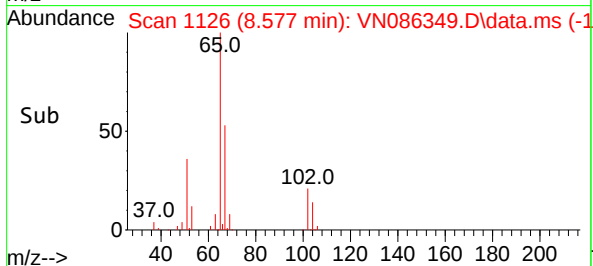
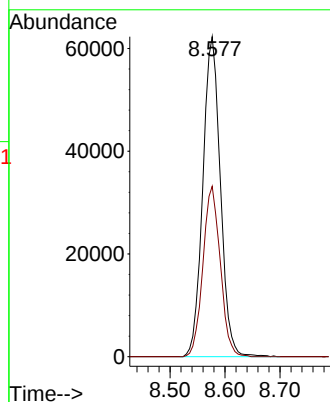
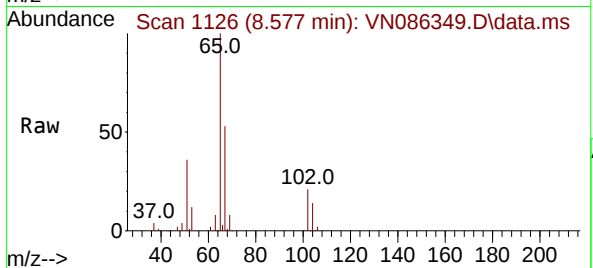
PB167623ZHE#14

Tgt Ion: 65 Resp: 138364

Ion Ratio Lower Upper

65 100

67 52.5 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: VN086349.D

Acq: 18 Apr 2025 17:20

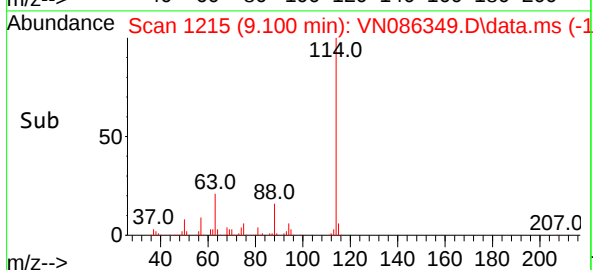
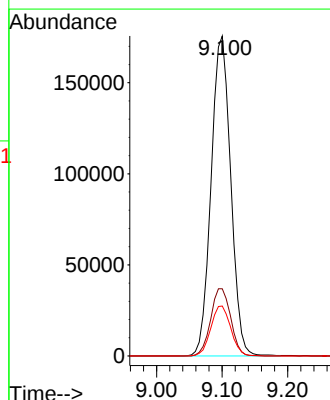
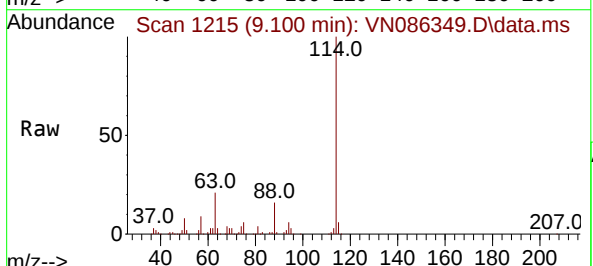
Tgt Ion: 114 Resp: 364544

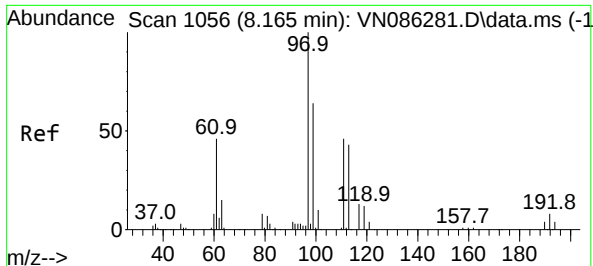
Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.6

88 15.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.756 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086349.D

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MSVOA_N

ClientSampleId :

PB167623ZHE#14

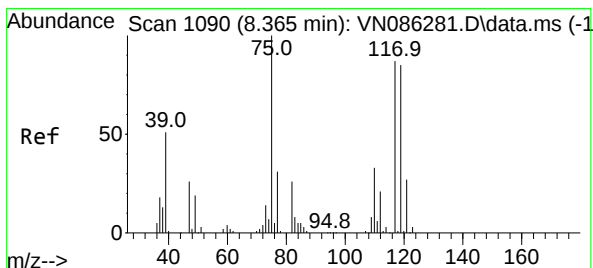
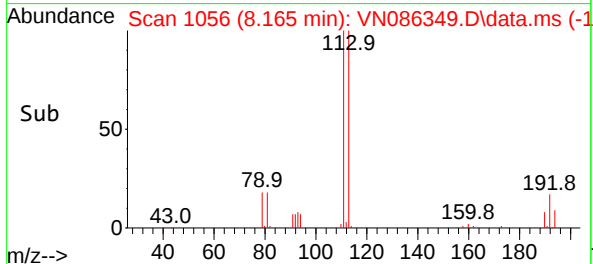
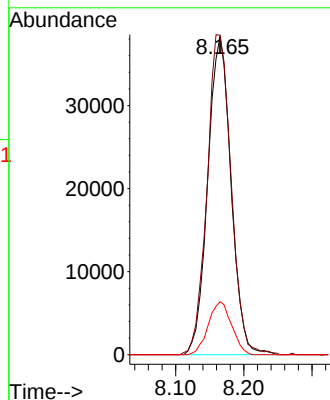
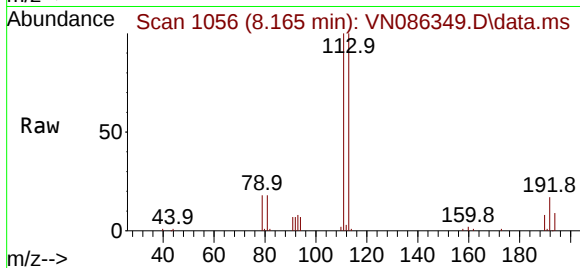
Tgt Ion:113 Resp: 90950

Ion Ratio Lower Upper

113 100

111 103.9 83.4 125.0

192 16.6 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.814 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086349.D

Acq: 18 Apr 2025 17:20

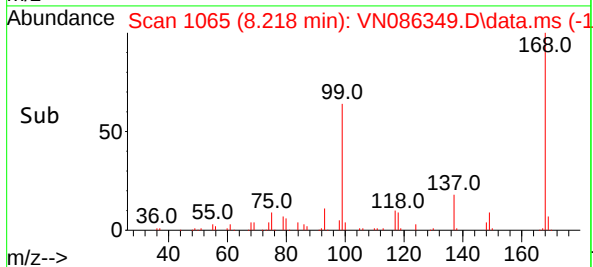
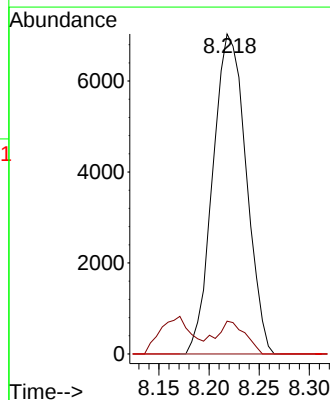
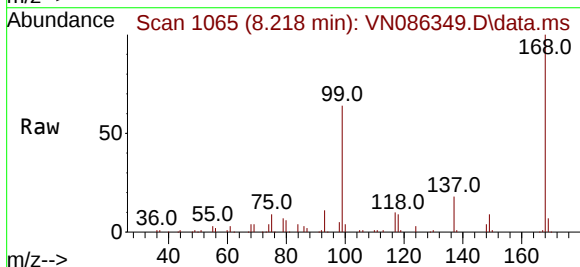
Tgt Ion: 75 Resp: 16268

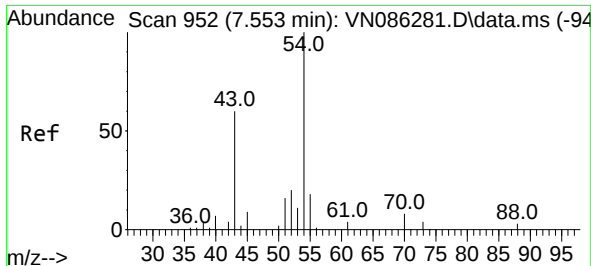
Ion Ratio Lower Upper

75 100

110 8.9 16.8 50.4#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 1.749 ug/l

RT: 7.489 min Scan# 941

Delta R.T. -0.065 min

Lab File: VN086349.D

Acq: 18 Apr 2025 17:20

Instrument :

MSVOA_N

ClientSampleId :

PB167623ZHE#14

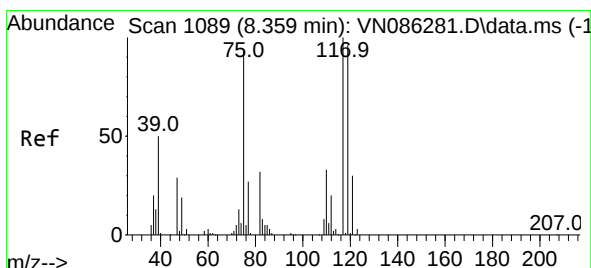
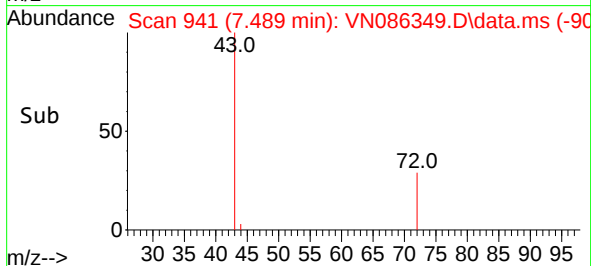
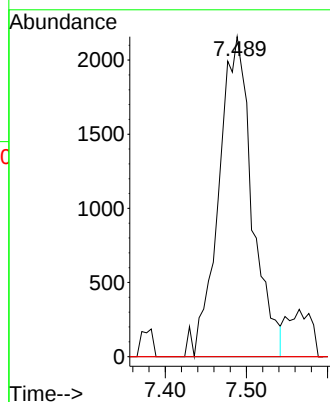
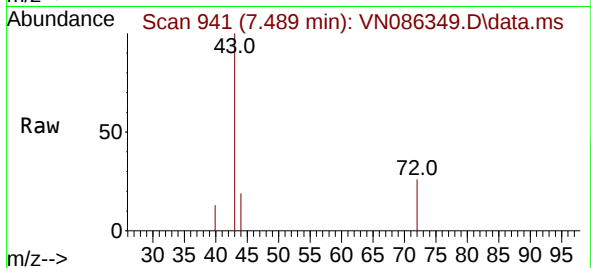
Tgt Ion: 43 Resp: 6223

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 5.948 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086349.D

Acq: 18 Apr 2025 17:20

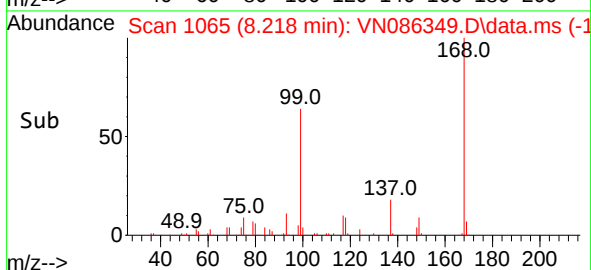
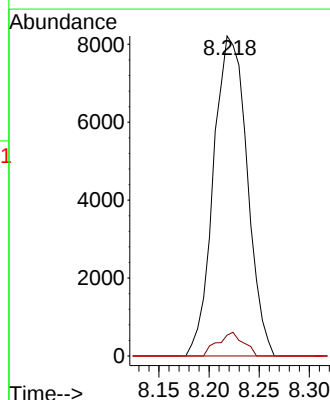
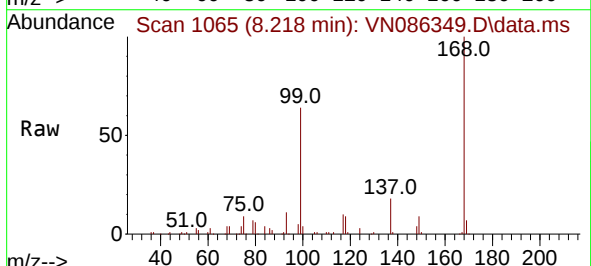
Tgt Ion: 117 Resp: 19141

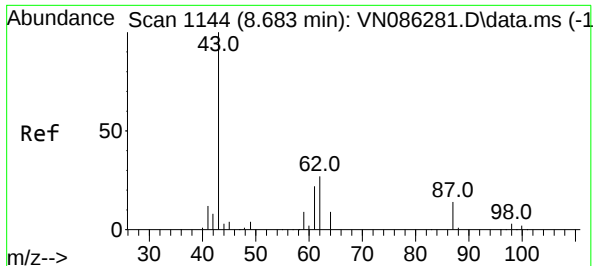
Ion Ratio Lower Upper

117 100

119 6.5 76.8 115.2#

121 0.0 23.8 35.8#

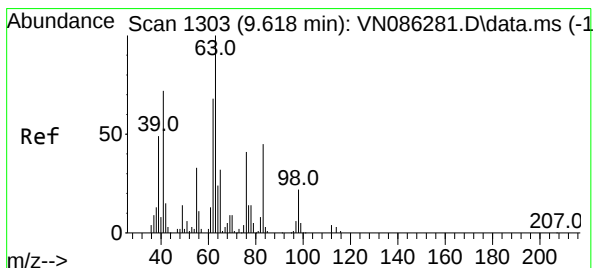
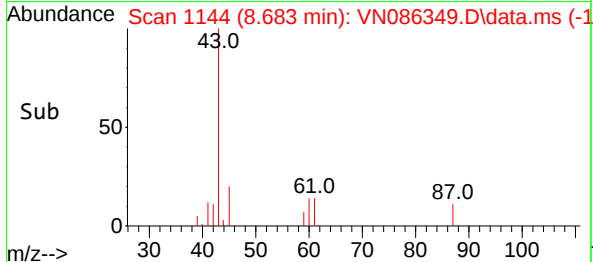
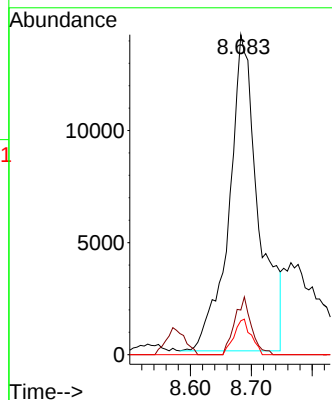
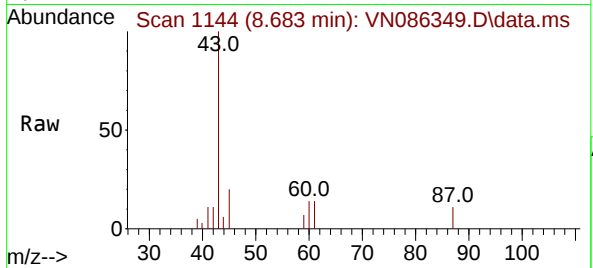




#43
Isopropyl Acetate
Concen: 5.673 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

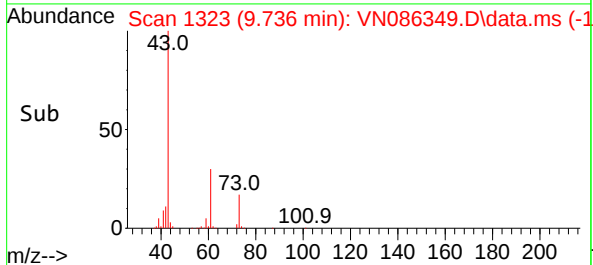
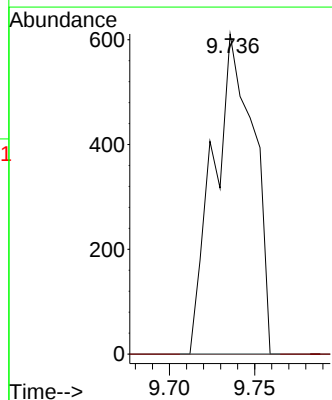
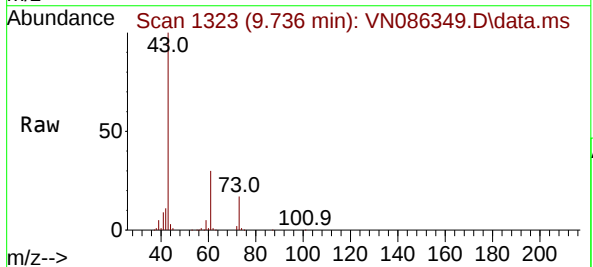
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#14

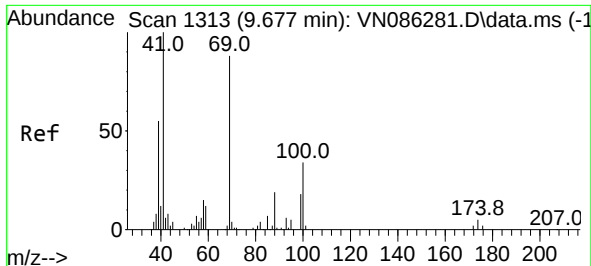
Tgt Ion: 43 Resp: 47483
Ion Ratio Lower Upper
43 100
61 10.4 20.5 30.7#
87 6.4 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.380 ug/l
RT: 9.736 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

Tgt Ion: 63 Resp: 1006
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

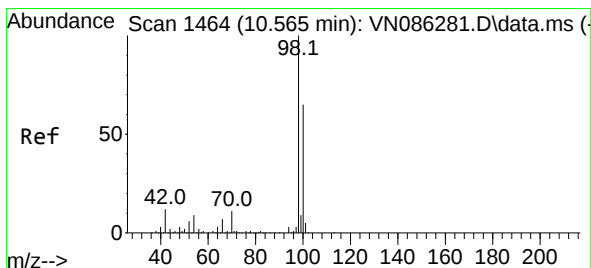
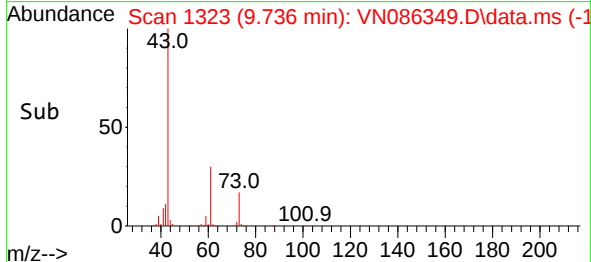
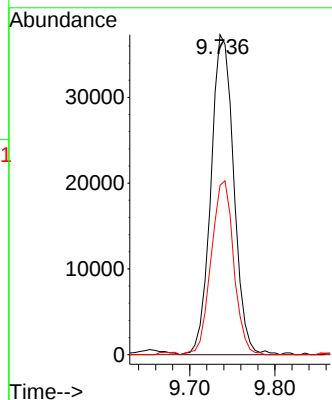
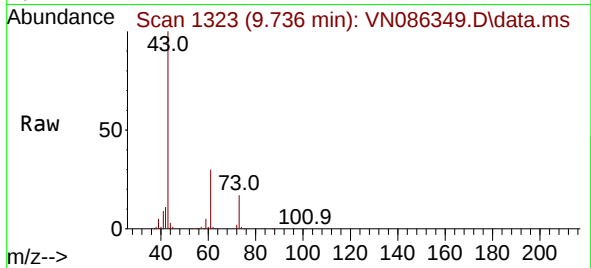




#48
Methyl methacrylate
Concen: 22.210 ug/l
RT: 9.736 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

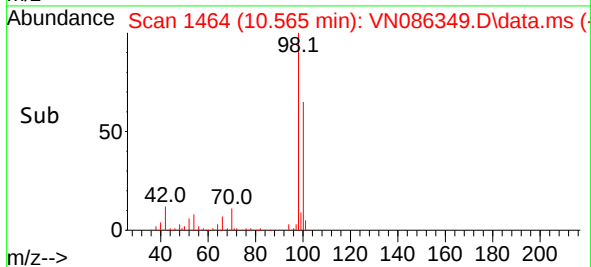
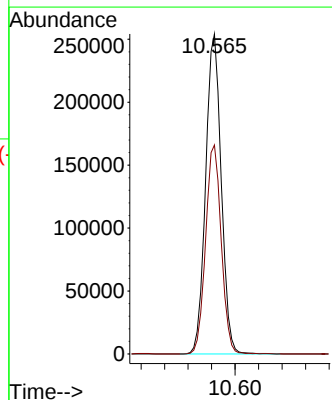
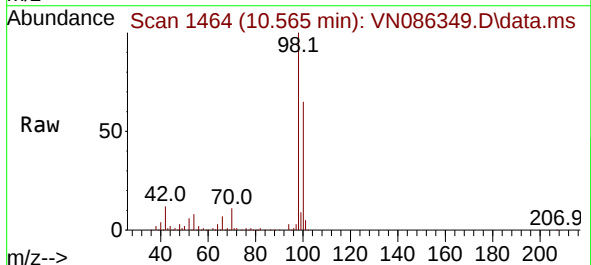
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#14

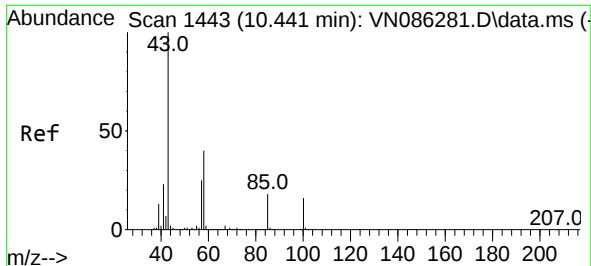
Tgt Ion: 41 Resp: 69391
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 53.7 45.2 67.8



#50
Toluene-d8
Concen: 51.814 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

Tgt Ion: 98 Resp: 468518
Ion Ratio Lower Upper
98 100
100 65.5 52.5 78.7

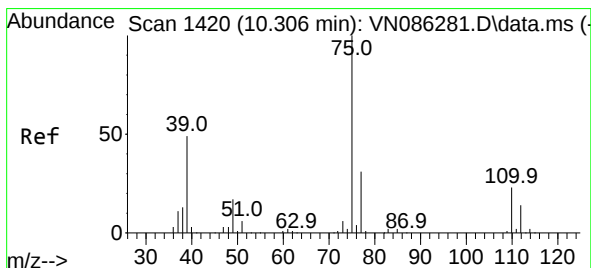
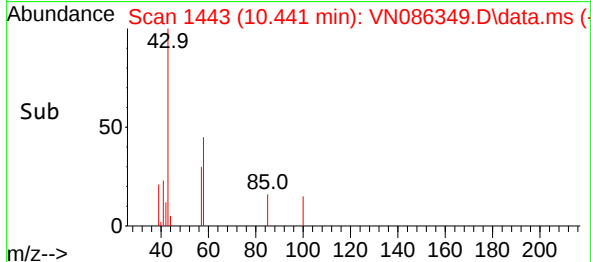
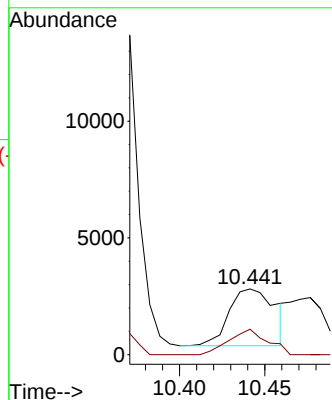
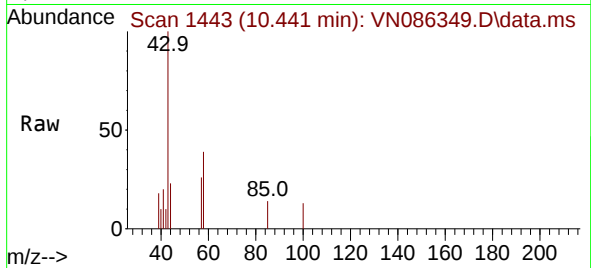




#51
4-Methyl-2-Pentanone
Concen: 1.250 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

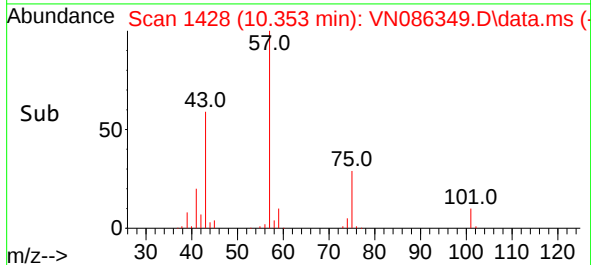
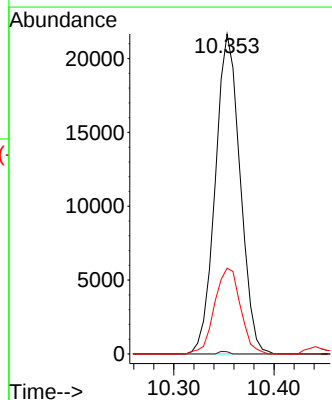
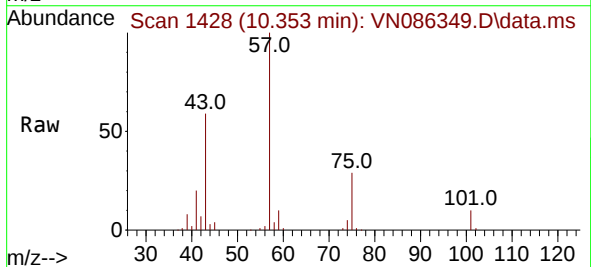
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#14

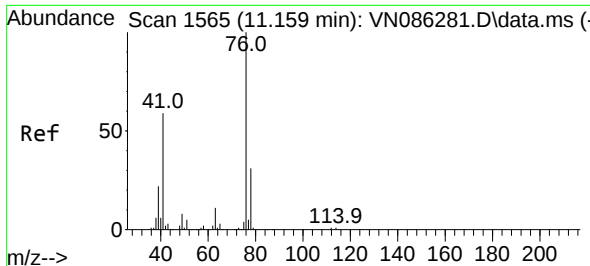
Tgt Ion: 43 Resp: 4555
Ion Ratio Lower Upper
43 100
58 37.3 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.334 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

Tgt Ion: 75 Resp: 37266
Ion Ratio Lower Upper
75 100
77 0.7 25.2 37.8#
39 26.8 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.798 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086349.D

Acq: 18 Apr 2025 17:20

Instrument :

MSVOA_N

ClientSampleId :

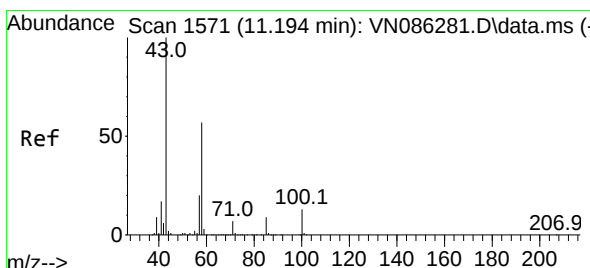
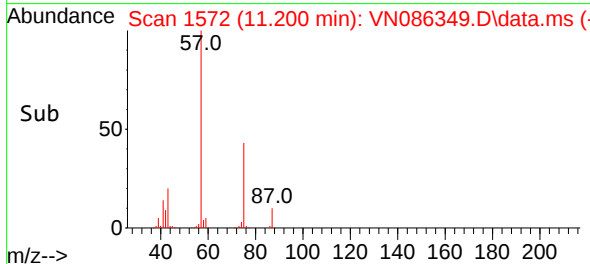
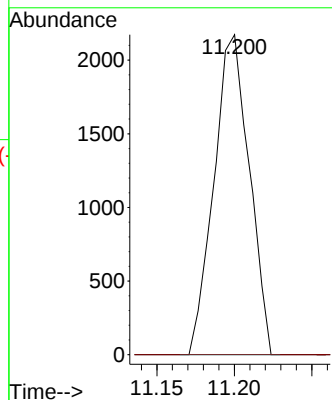
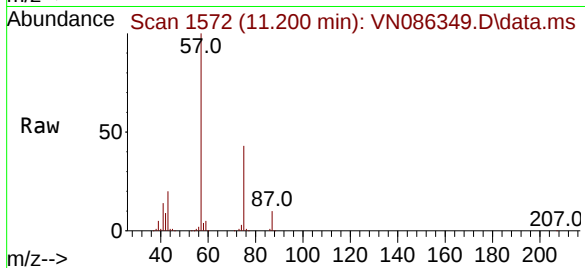
PB167623ZHE#14

Tgt Ion: 76 Resp: 3442

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 24.696 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086349.D

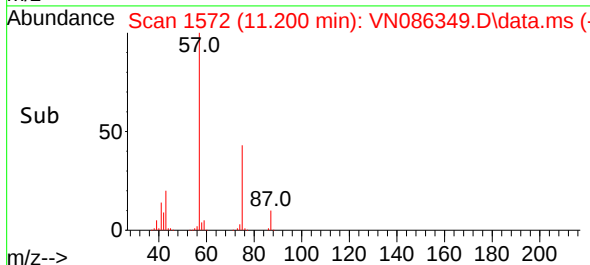
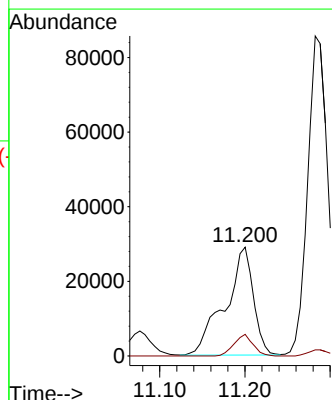
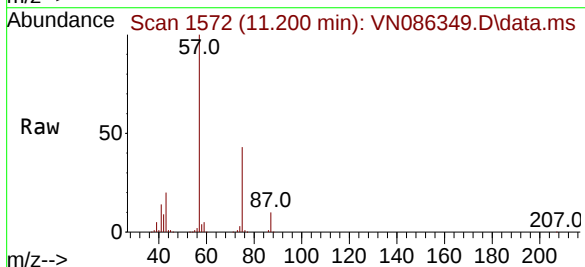
Acq: 18 Apr 2025 17:20

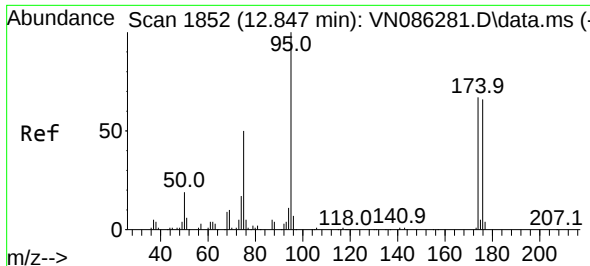
Tgt Ion: 43 Resp: 66734

Ion Ratio Lower Upper

43 100

58 13.5 28.3 85.0#

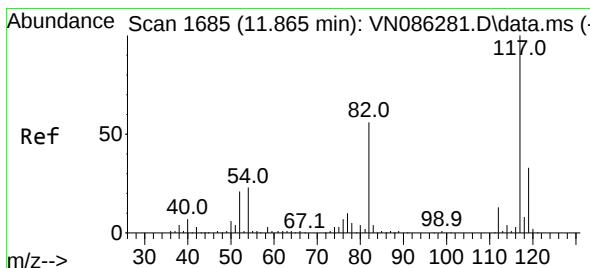
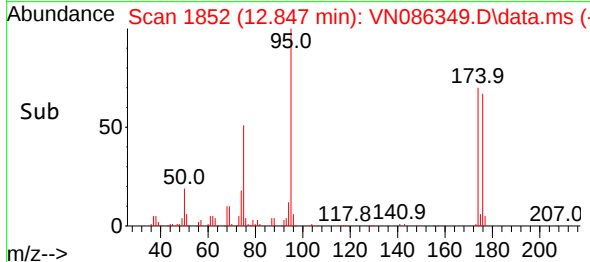
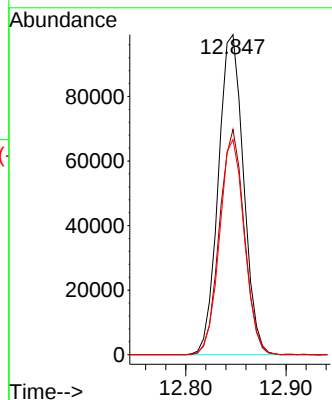
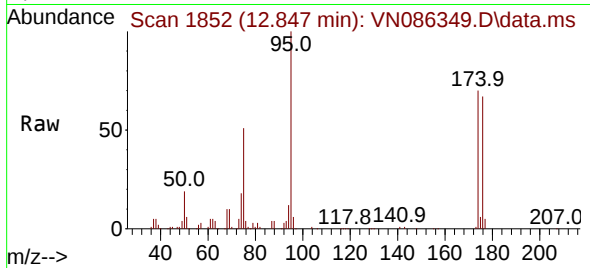




#62
4-Bromofluorobenzene
Concen: 52.495 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

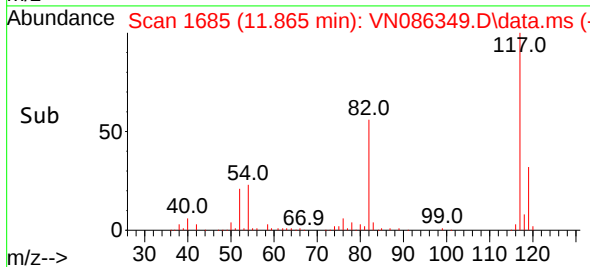
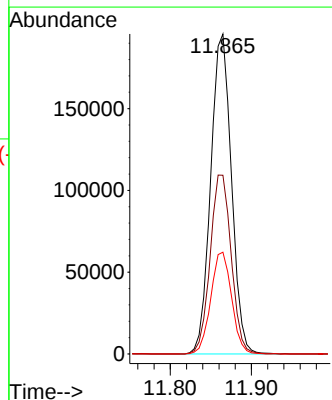
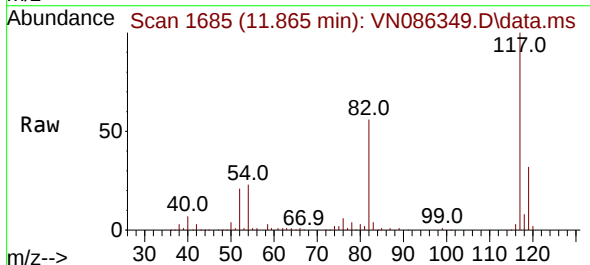
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#14

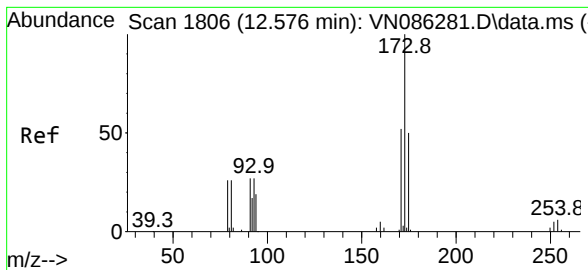
Tgt Ion: 95 Resp: 173133
Ion Ratio Lower Upper
95 100
174 69.0 0.0 133.4
176 66.4 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

Tgt Ion: 117 Resp: 346752
Ion Ratio Lower Upper
117 100
82 55.9 44.7 67.1
119 31.8 26.4 39.6





#71

Bromoform

Concen: 0.377 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN086349.D

Acq: 18 Apr 2025 17:20

Instrument :

MSVOA_N

ClientSampleId :

PB167623ZHE#14

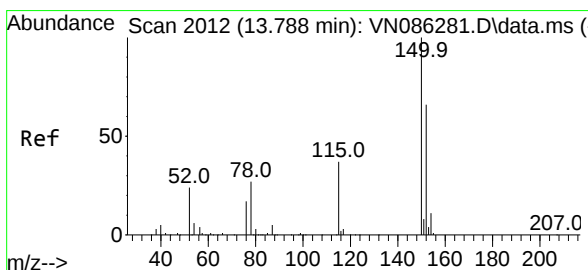
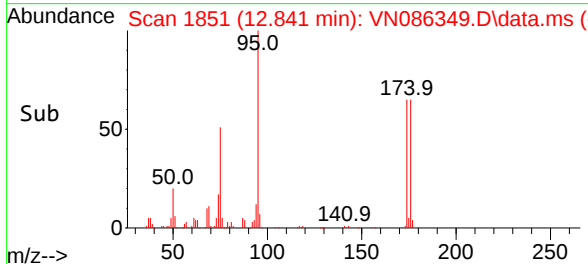
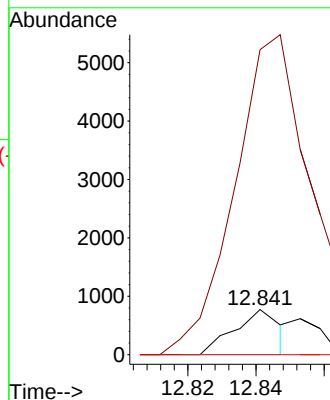
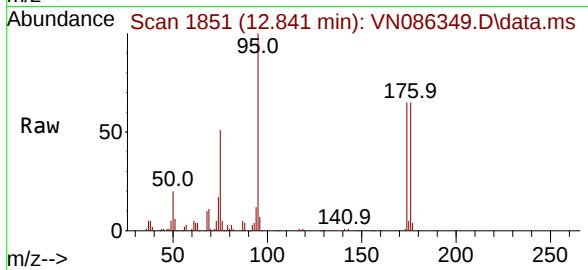
Tgt Ion:173 Resp: 725

Ion Ratio Lower Upper

173 100

175 978.8 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# 1212

Delta R.T. 0.000 min

Lab File: VN086349.D

Acq: 18 Apr 2025 17:20

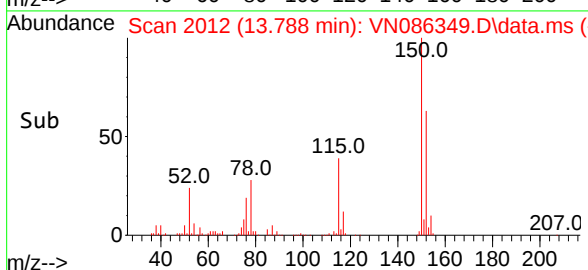
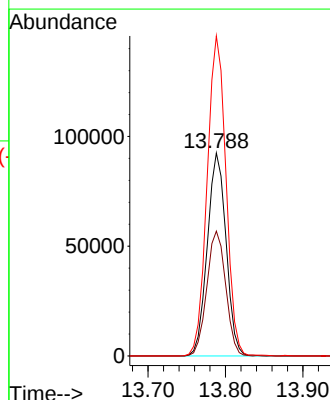
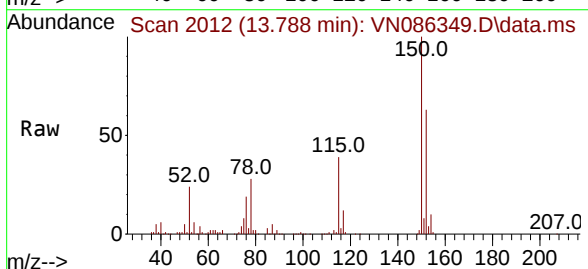
Tgt Ion:152 Resp: 155070

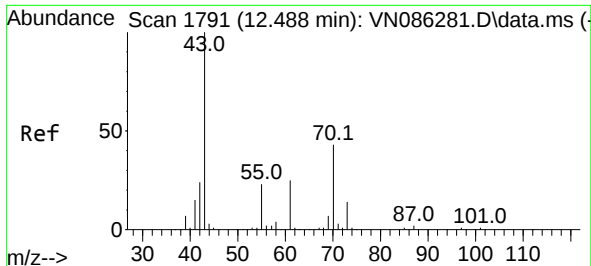
Ion Ratio Lower Upper

152 100

115 62.2 31.9 95.9

150 158.3 0.0 352.0

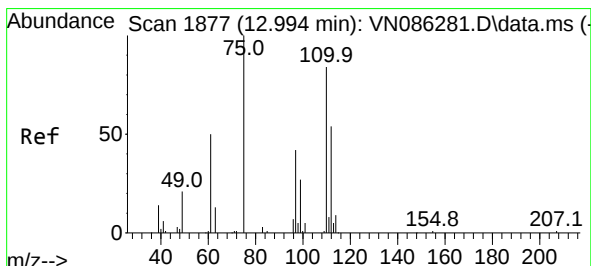
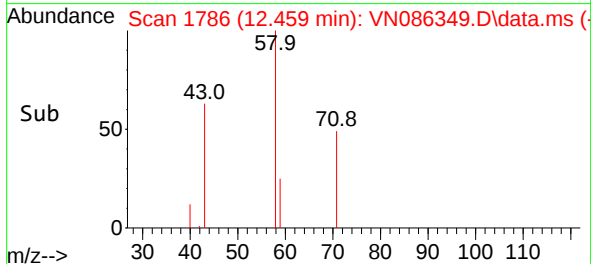
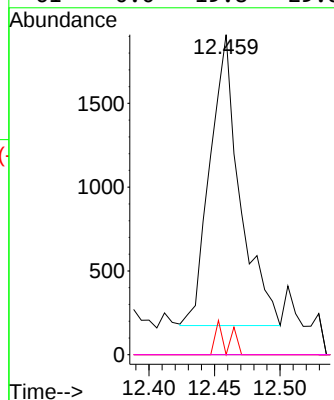
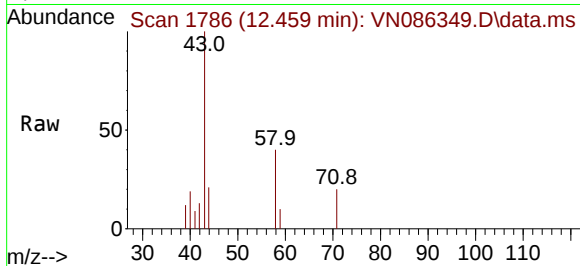




#74
N-amy1 acetate
Concen: 0.435 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

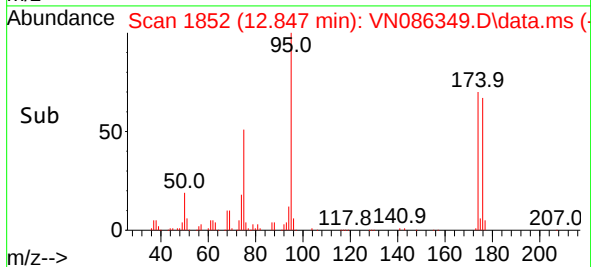
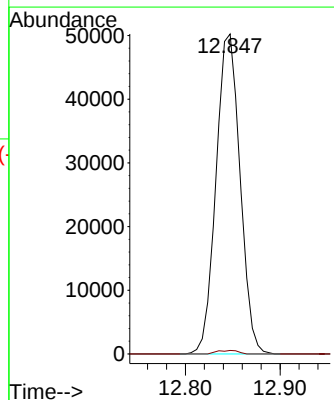
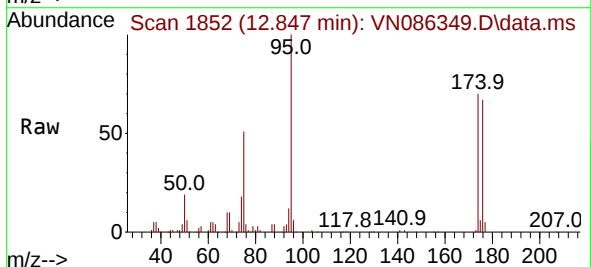
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#14

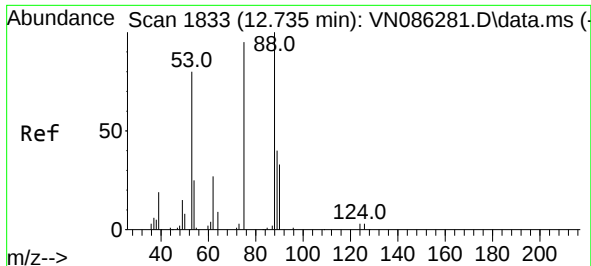
Tgt Ion: 43	Resp:	2750
Ion Ratio	Lower	Upper
43 100		
70 0.0	35.0	52.4#
55 4.8	19.0	28.4#
61 0.0	19.8	29.8#



#76
1,2,3-Trichloropropane
Concen: 24.191 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

Tgt Ion: 75	Resp: 88525
Ion Ratio	Lower Upper
75 100	
77 1.0	98.8 296.4#

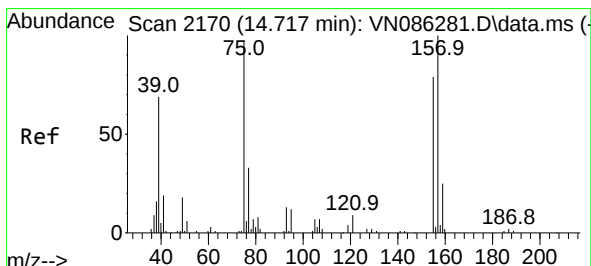
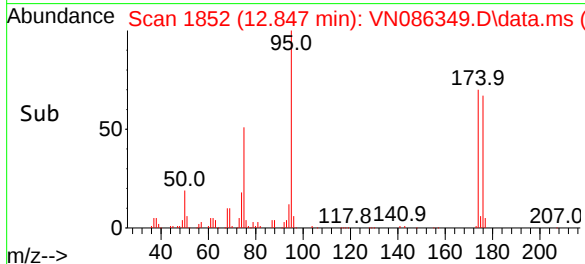
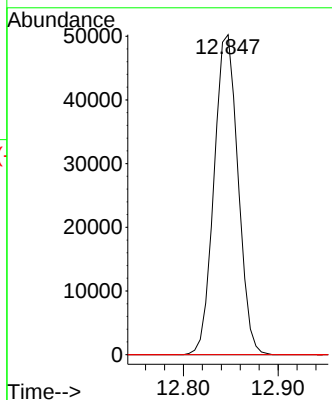
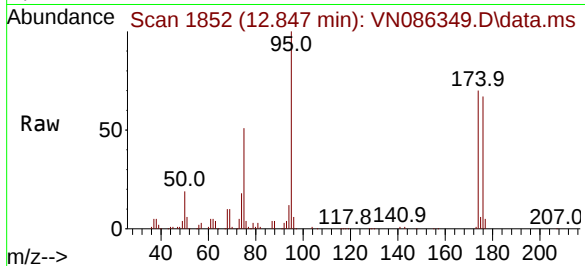




#81
trans-1,4-Dichloro-2-butene
Concen: 58.098 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#14

Tgt Ion: 75 Resp: 88525
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.484 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. -0.018 min
Lab File: VN086349.D
Acq: 18 Apr 2025 17:20

Tgt Ion: 75 Resp: 356
Ion Ratio Lower Upper
75 100
155 0.0 40.3 120.9#
157 0.0 49.0 147.2#

