

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN043025\
 Data File : VN086434.D
 Acq On : 30 Apr 2025 14:14
 Operator : JC\MD
 Sample : PB167775ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#04

Quant Time: May 01 01:34:36 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)

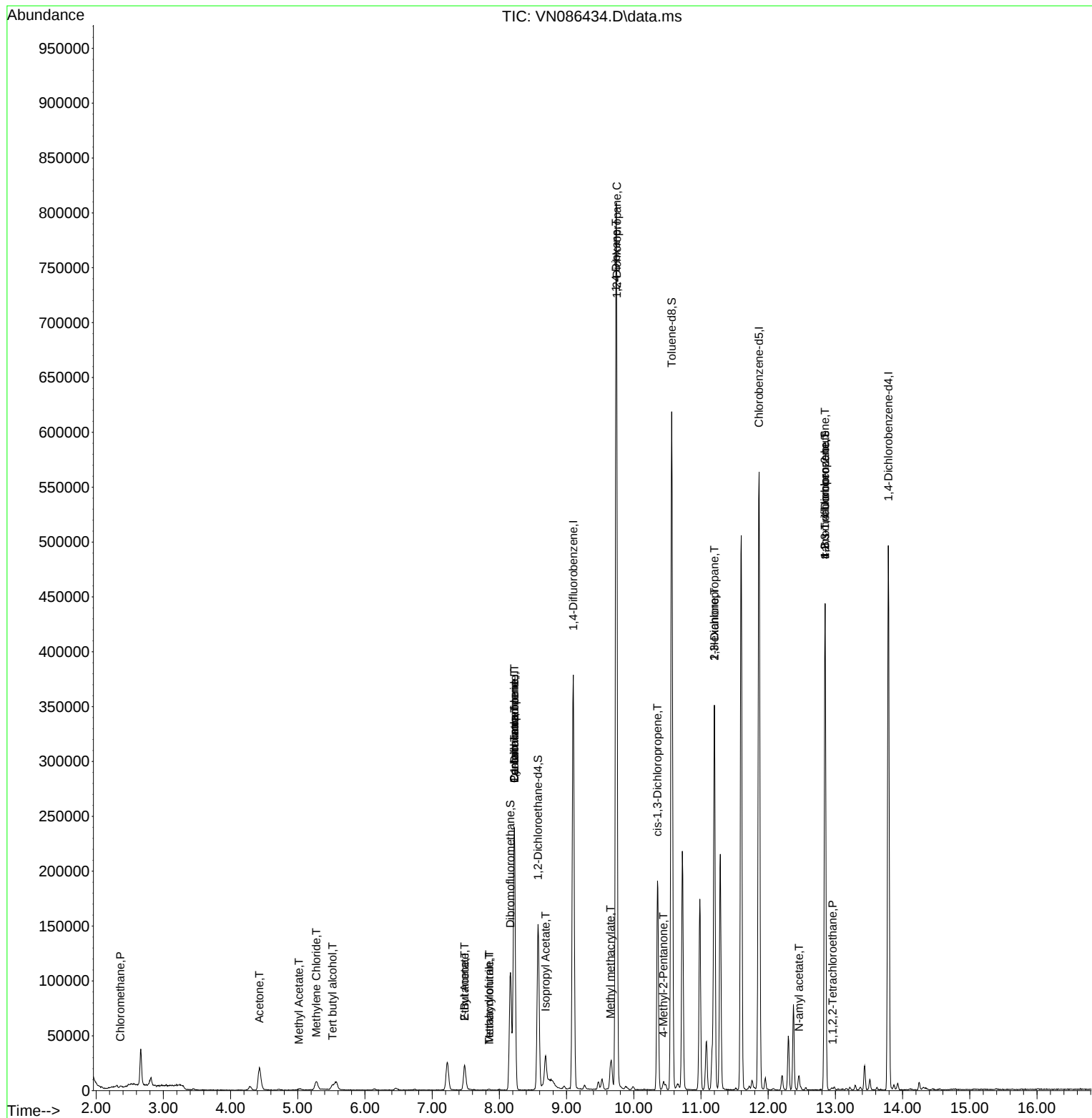
Internal Standards						
1) Pentafluorobenzene	8.224	168	175003	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	336649	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330442	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	133202	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	124581	49.092	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.180%		
35) Dibromofluoromethane	8.165	113	80507	51.527	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	103.060%		
50) Toluene-d8	10.565	98	434290	52.008	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	104.020%		
62) 4-Bromofluorobenzene	12.847	95	155561	51.075	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	102.140%		
Target Compounds						Qvalue
3) Chloromethane	2.359	50	837	0.278	ug/l #	83
11) Tert butyl alcohol	5.518	59	8395	18.131	ug/l #	90
13) Acrolein	4.165	56	57	Below Cal	#	74
16) Acetone	4.430	43	39850	40.640	ug/l	97
18) Methyl Acetate	5.018	43	1911	0.627	ug/l	97
20) Methylene Chloride	5.277	84	5799	2.472	ug/l	94
25) 2-Butanone	7.483	43	38189	24.177	ug/l	92
29) Tetrahydrofuran	7.847	42	1065	1.008	ug/l #	36
31) Cyclohexane	8.224	56	4007	0.974	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	15038	4.819	ug/l #	51
37) Ethyl Acetate	7.483	43	38189	11.624	ug/l #	68
38) Carbon Tetrachloride	8.224	117	17950	6.040	ug/l #	16
41) Methacrylonitrile	7.853	41	382	0.201	ug/l #	32
43) Isopropyl Acetate	8.688	43	46148	6.070	ug/l #	79
45) 1,2-Dichloropropane	9.747	63	997	0.407	ug/l #	43
48) Methyl methacrylate	9.653	41	5384	1.866	ug/l #	43
49) 1,4-Dioxane	9.735	88	58	1.182	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	4682	1.392	ug/l	98
54) cis-1,3-Dichloropropene	10.353	75	37377	9.051	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3392	0.852	ug/l #	43
59) 2-Hexanone	11.200	43	91117	36.513	ug/l #	51
74) N-amyl acetate	12.459	43	10164	1.874	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.959	83	912	0.291	ug/l #	25
76) 1,2,3-Trichloropropane	12.847	75	80450	25.594	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	80450	61.466	ug/l #	10

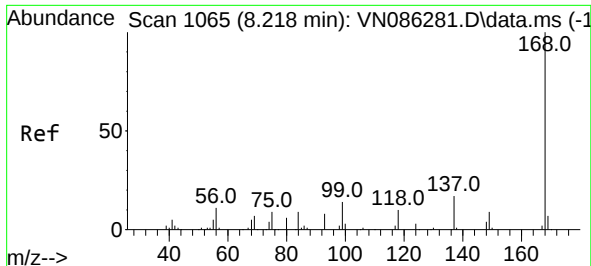
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN043025\
Data File : VN086434.D
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Sample : PB167775ZHE#04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
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Quant Time: May 01 01:34:36 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

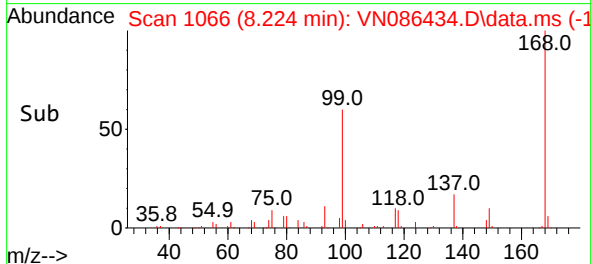
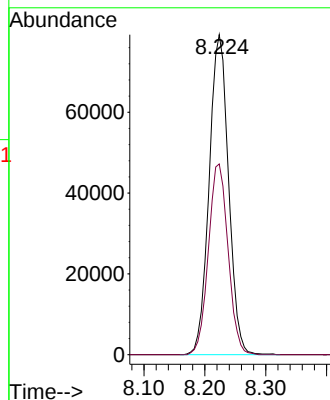
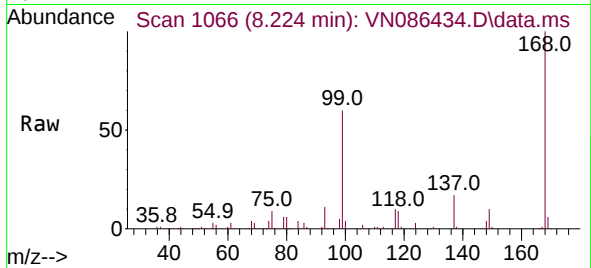




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

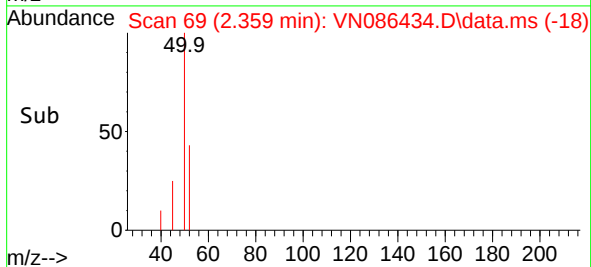
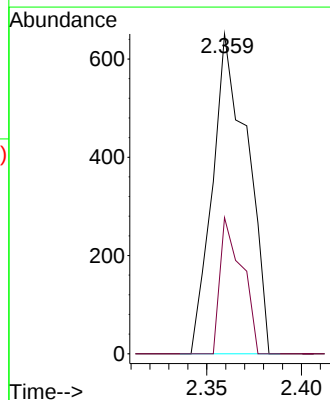
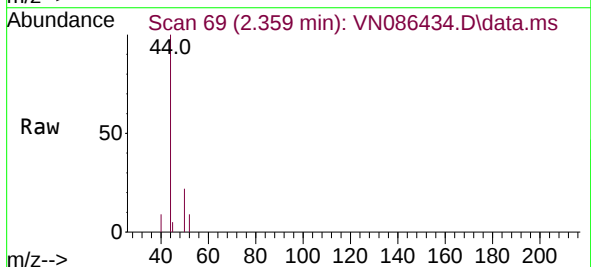
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#04

Tgt Ion:168 Resp: 175003
Ion Ratio Lower Upper
168 100
99 59.6 52.5 78.7



#3
Chloromethane
Concen: 0.278 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

Tgt Ion: 50 Resp: 837
Ion Ratio Lower Upper
50 100
52 42.5 26.5 39.7#

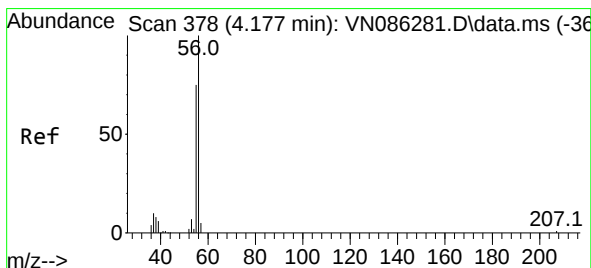
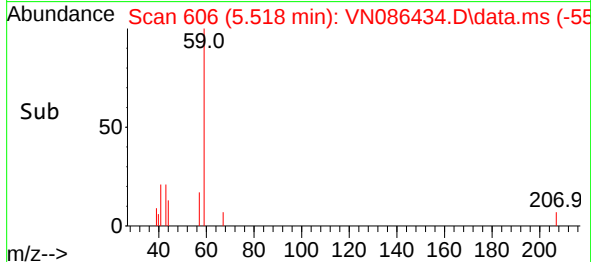
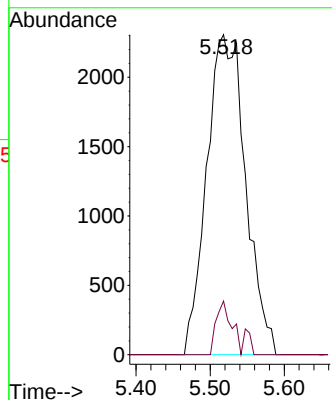
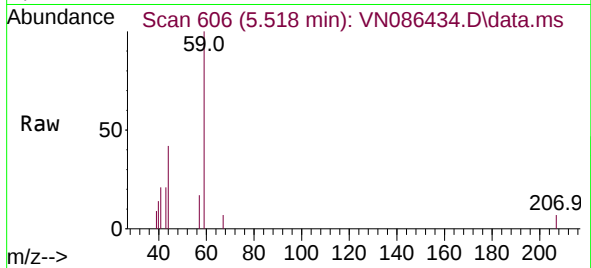




#11
Tert butyl alcohol
Concen: 18.131 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

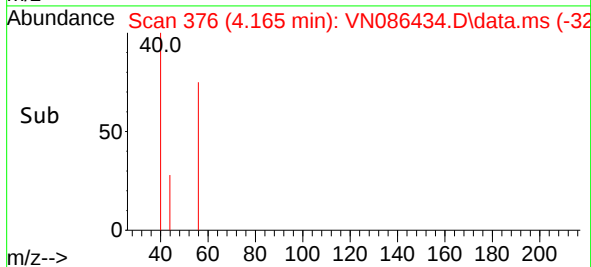
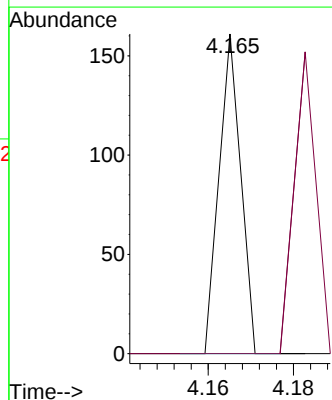
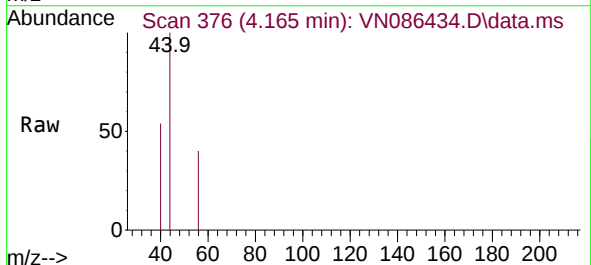
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#04

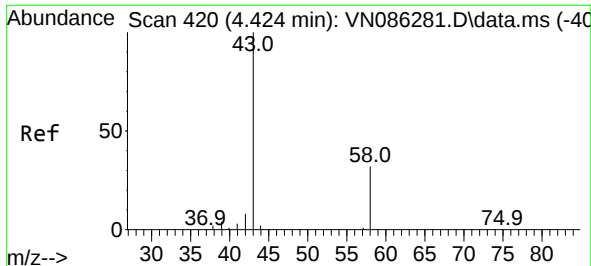
Tgt Ion: 59 Resp: 8395
Ion Ratio Lower Upper
59 100
57 6.6 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 4.165 min Scan# 376
Delta R.T. -0.012 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

Tgt Ion: 56 Resp: 57
Ion Ratio Lower Upper
56 100
55 94.7 58.5 87.7#

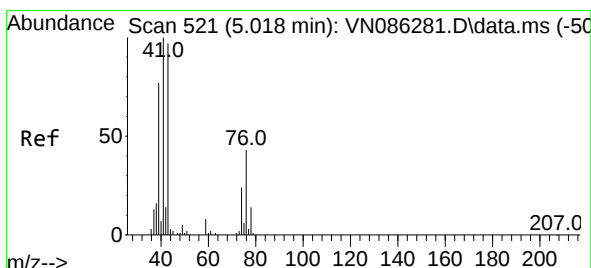
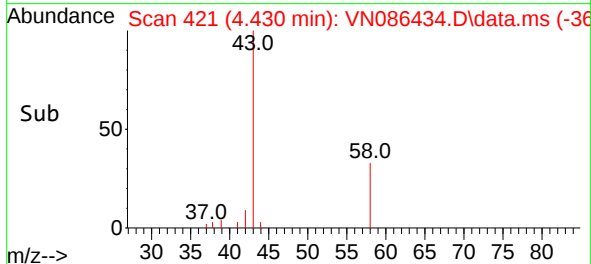
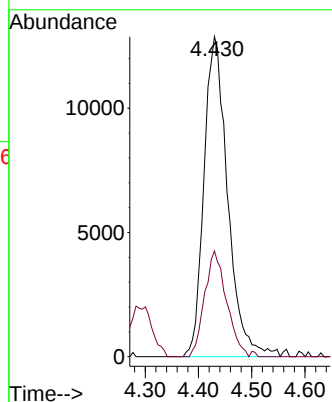
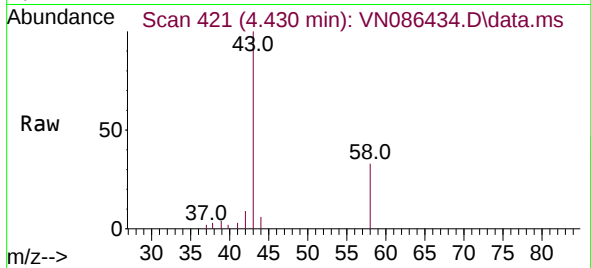




#16
Acetone
Concen: 40.640 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

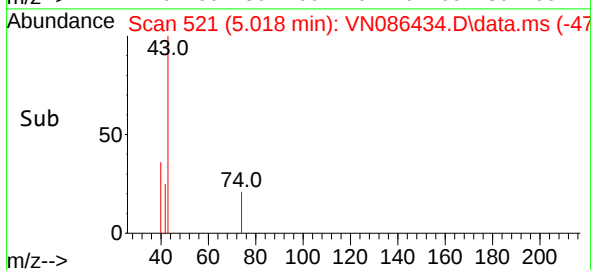
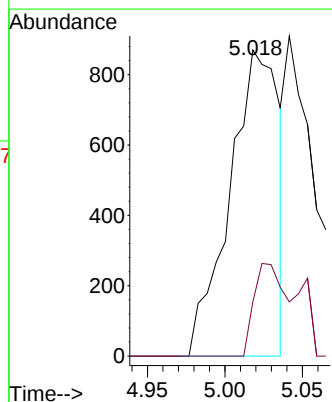
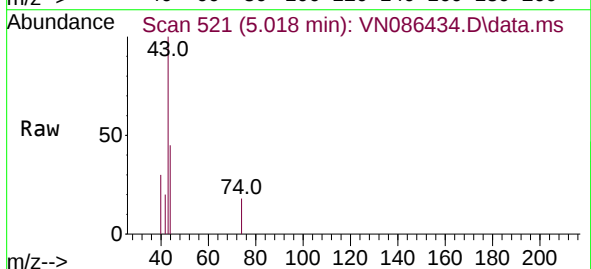
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#04

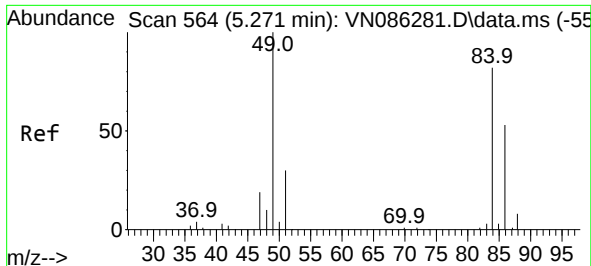
Tgt Ion: 43 Resp: 39850
Ion Ratio Lower Upper
43 100
58 33.0 25.3 37.9



#18
Methyl Acetate
Concen: 0.627 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

Tgt Ion: 43 Resp: 1911
Ion Ratio Lower Upper
43 100
74 26.3 19.8 29.6

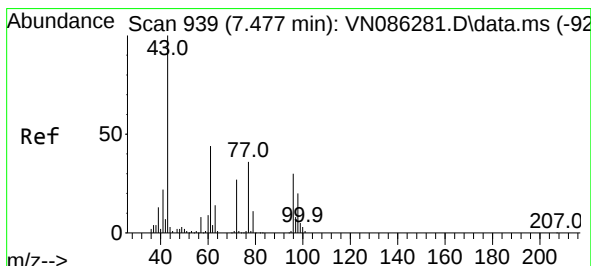
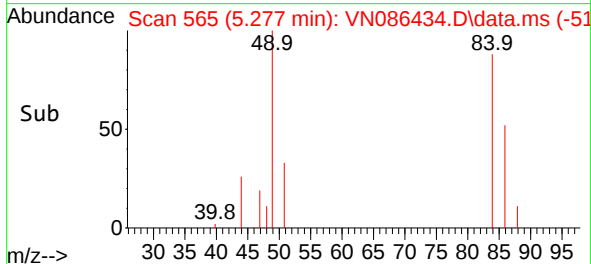
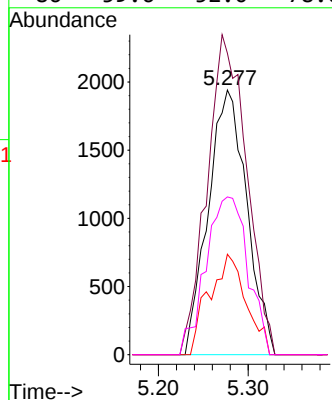
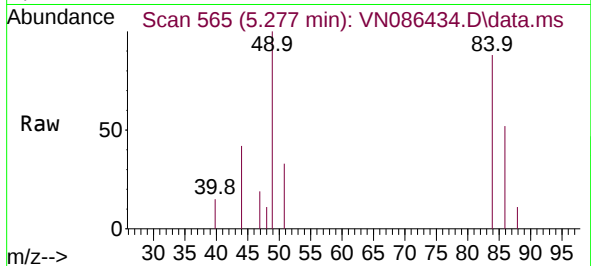




#20
Methylene Chloride
Concen: 2.472 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

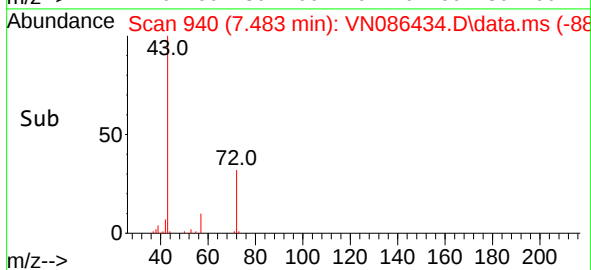
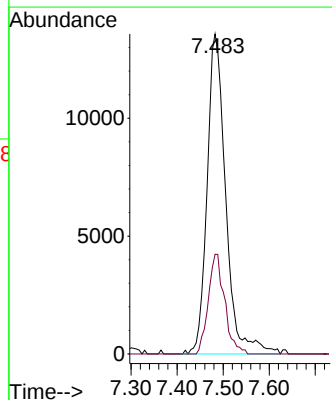
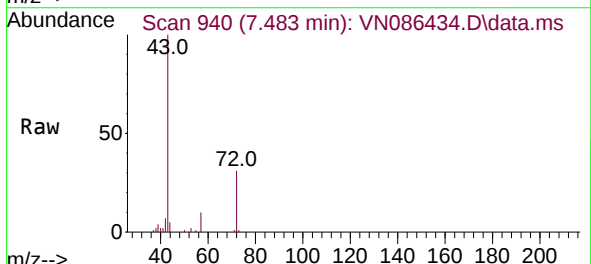
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#04

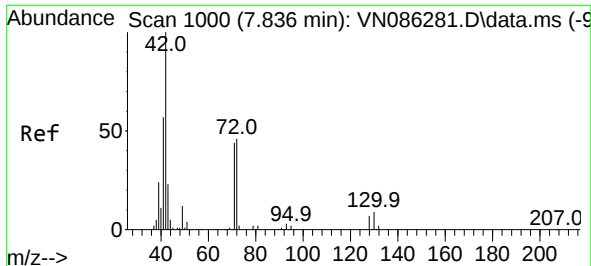
Tgt Ion: 84	Resp: 5799
Ion Ratio	Lower Upper
84 100	
49 113.9	98.2 147.2
51 38.0	29.8 44.6
86 59.6	52.0 78.0



#25
2-Butanone
Concen: 24.177 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

Tgt Ion: 43	Resp: 38189
Ion Ratio	Lower Upper
43 100	
72 31.2	21.7 32.5





#29

Tetrahydrofuran

Concen: 1.008 ug/l

RT: 7.847 min Scan# 1065

Delta R.T. 0.012 min

Lab File: VN086434.D

Acq: 30 Apr 2025 14:14

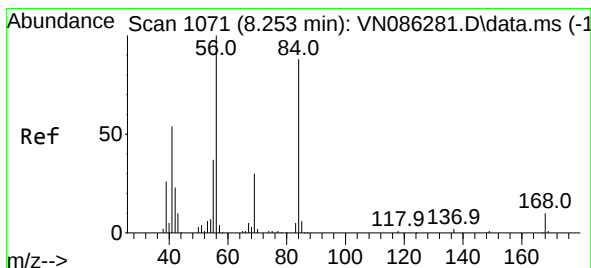
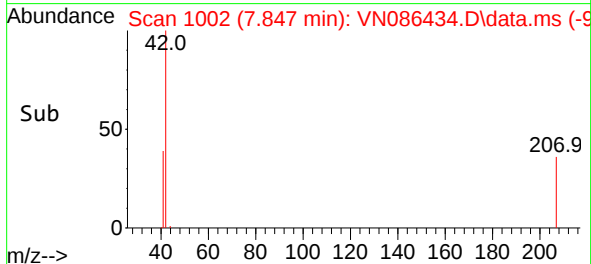
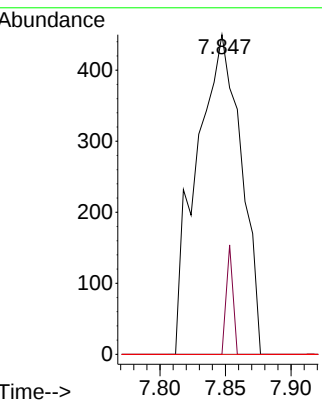
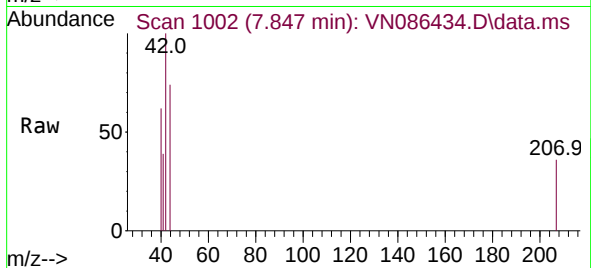
Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#04

Tgt Ion:	42	Resp:	1065
Ion	Ratio	Lower	Upper
42	100		
72	5.1	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 0.974 ug/l

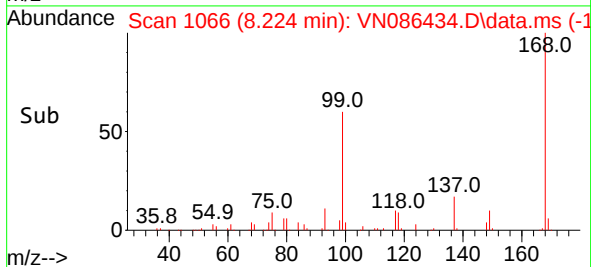
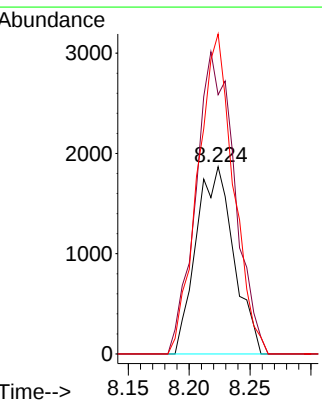
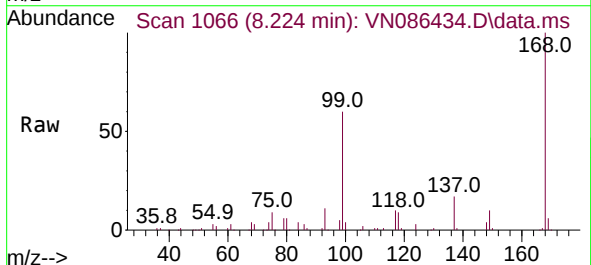
RT: 8.224 min Scan# 1066

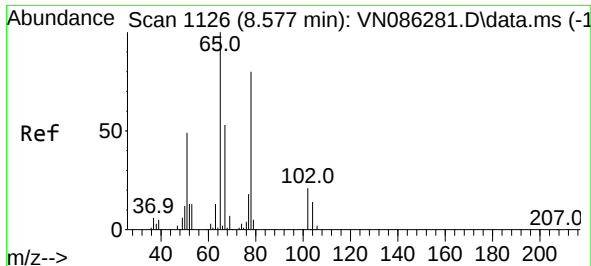
Delta R.T. -0.029 min

Lab File: VN086434.D

Acq: 30 Apr 2025 14:14

Tgt Ion:	56	Resp:	4007
Ion	Ratio	Lower	Upper
56	100		
69	138.5	24.2	36.2#
84	171.0	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 49.092 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086434.D

Acq: 30 Apr 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :

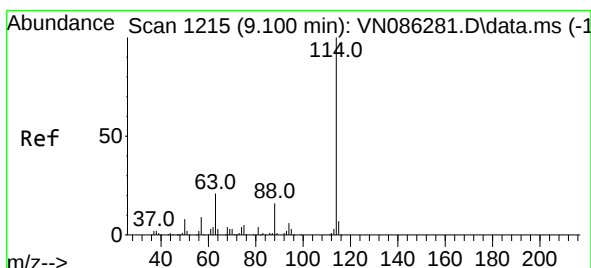
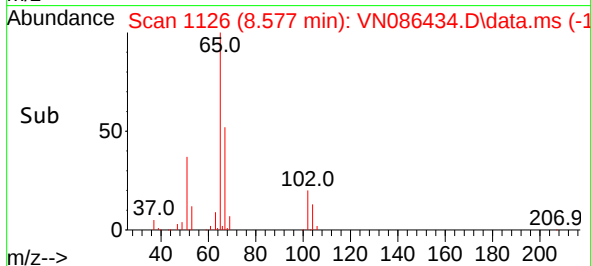
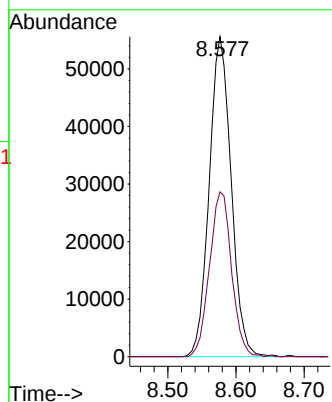
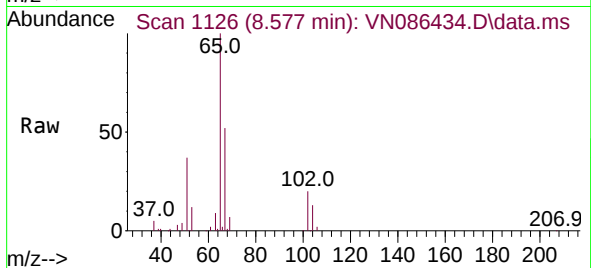
PB167775ZHE#04

Tgt Ion: 65 Resp: 124581

Ion Ratio Lower Upper

65 100

67 51.7 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: VN086434.D

Acq: 30 Apr 2025 14:14

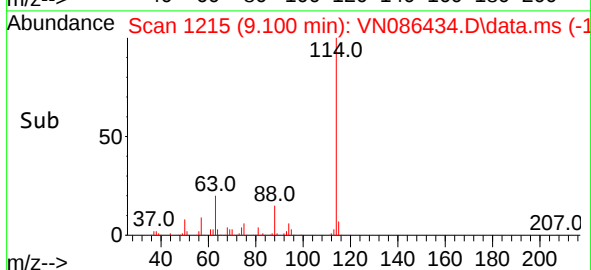
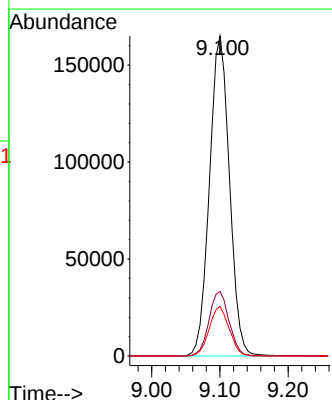
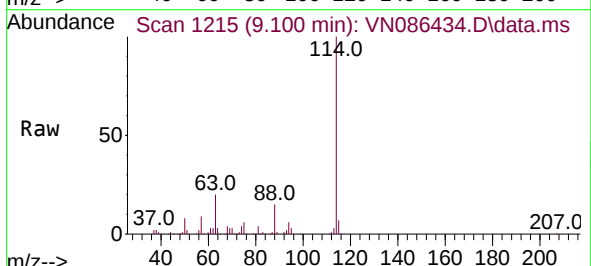
Tgt Ion: 114 Resp: 336649

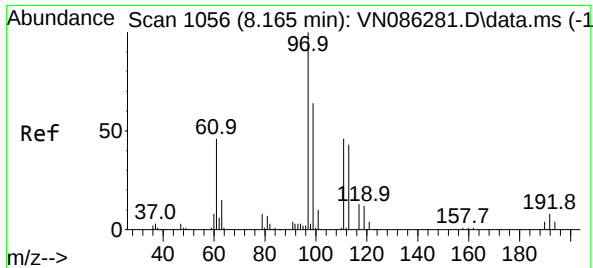
Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

88 15.4 0.0 31.8

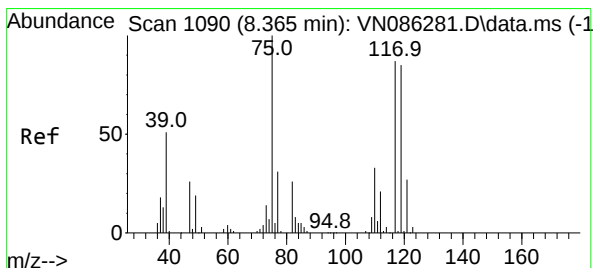
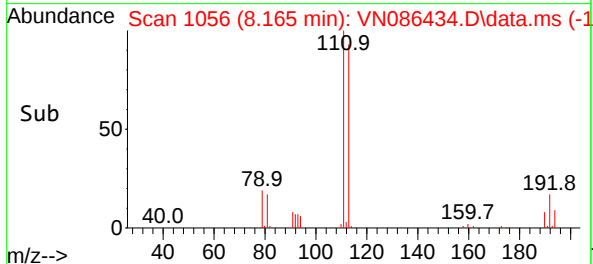
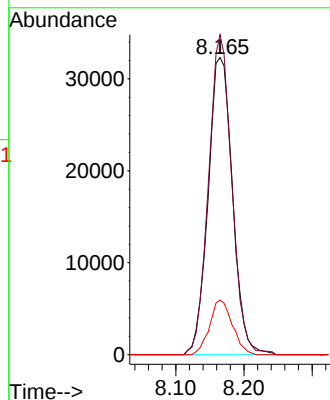
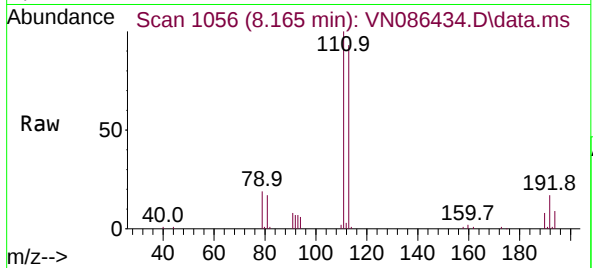




#35
Dibromofluoromethane
Concen: 51.527 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

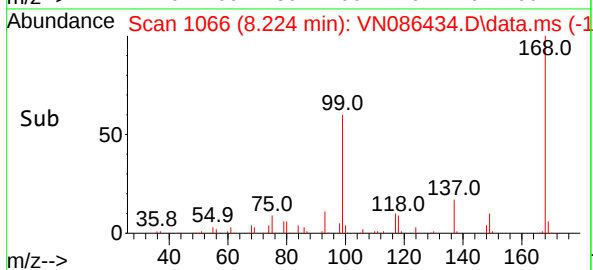
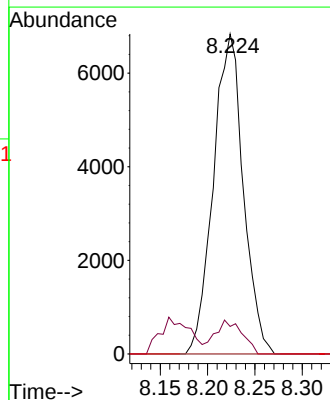
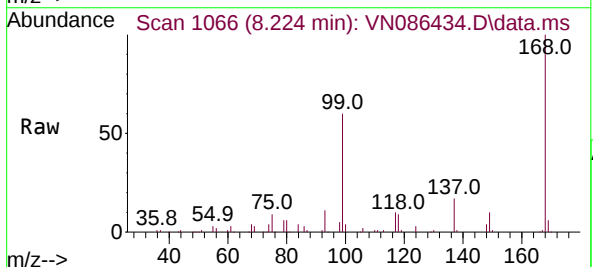
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#04

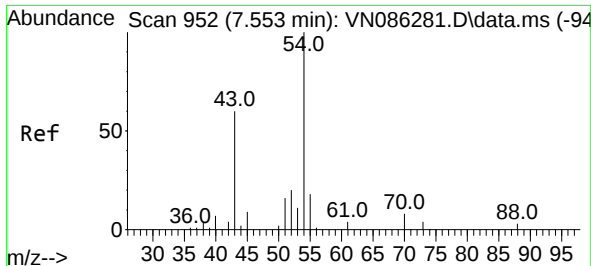
Tgt Ion:113 Resp: 80507
Ion Ratio Lower Upper
113 100
111 102.5 83.4 125.0
192 17.1 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.819 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

Tgt Ion: 75 Resp: 15038
Ion Ratio Lower Upper
75 100
110 9.6 16.8 50.4#
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 11.624 ug/l

RT: 7.483 min Scan# 94

Delta R.T. -0.071 min

Lab File: VN086434.D

Acq: 30 Apr 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#04

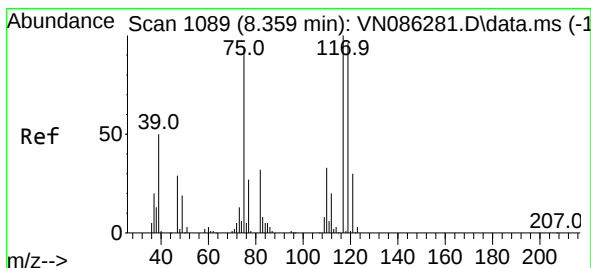
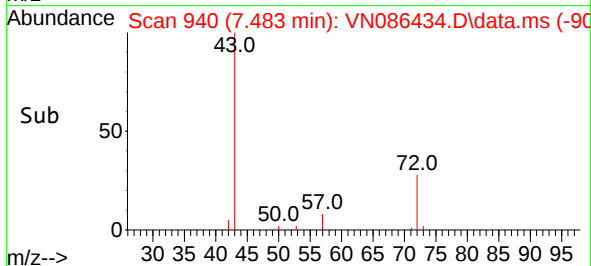
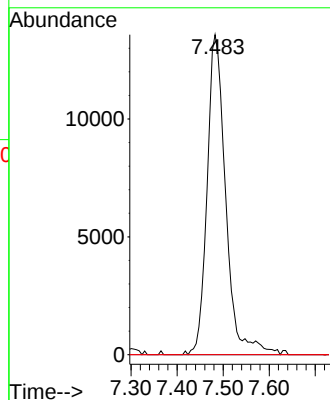
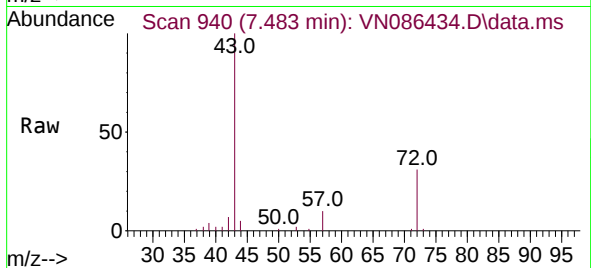
Tgt Ion: 43 Resp: 38189

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 6.040 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086434.D

Acq: 30 Apr 2025 14:14

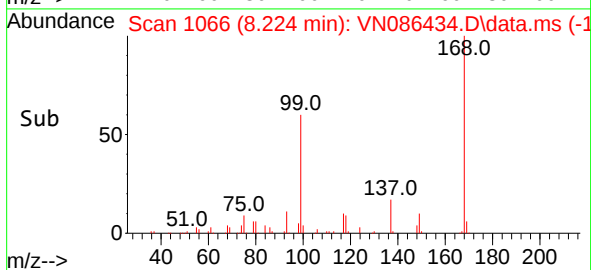
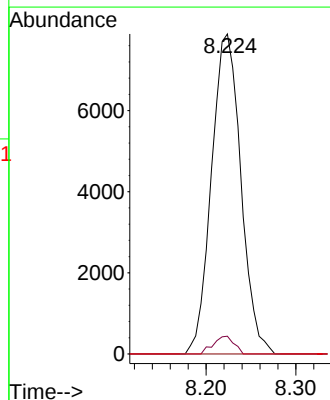
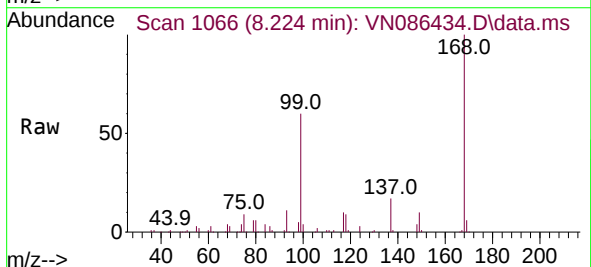
Tgt Ion: 117 Resp: 17950

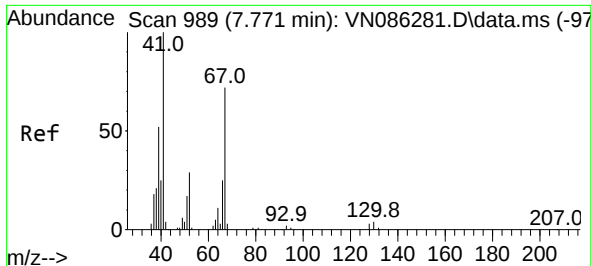
Ion Ratio Lower Upper

117 100

119 5.6 76.8 115.2#

121 0.0 23.8 35.8#

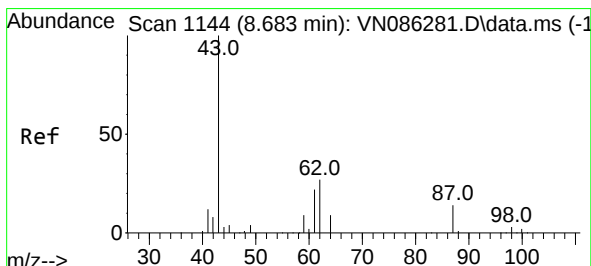
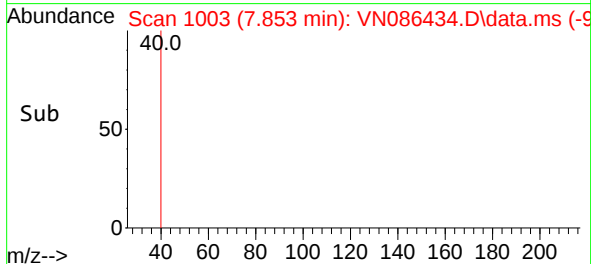
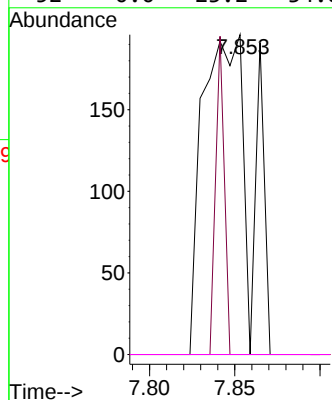
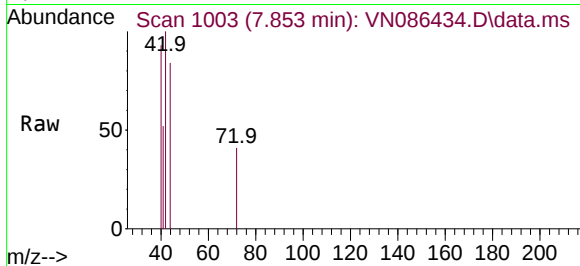




#41
Methacrylonitrile
Concen: 0.201 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.082 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

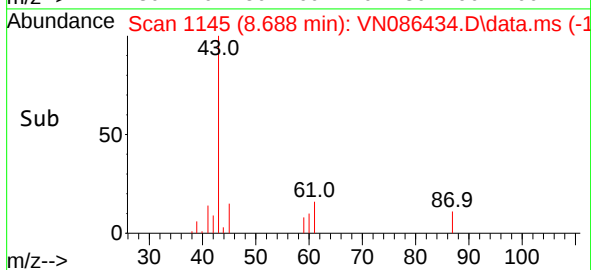
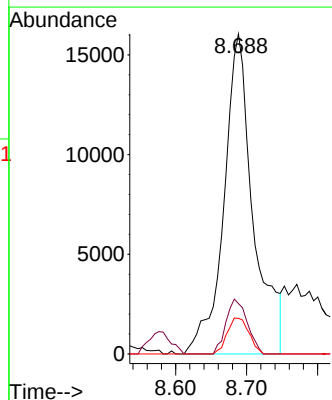
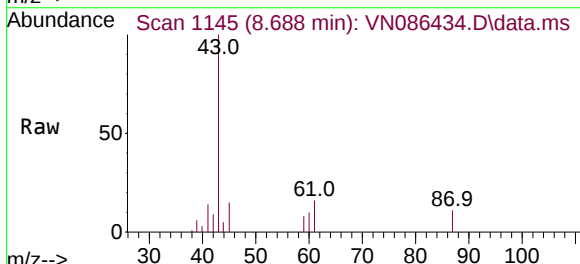
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#04

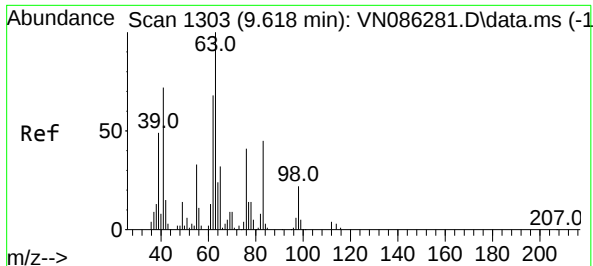
Tgt Ion: 41	Resp:	382	
Ion	Ratio	Lower	Upper
41	100		
39	18.1	43.0	64.4#
67	0.0	58.8	88.2#
52	0.0	23.2	34.8#



#43
Isopropyl Acetate
Concen: 6.070 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

Tgt Ion: 43	Resp:	46148	
Ion	Ratio	Lower	Upper
43	100		
61	12.4	20.5	30.7#
87	8.3	10.5	15.7#





#45

1,2-Dichloropropane

Concen: 0.407 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.129 min

Lab File: VN086434.D

Acq: 30 Apr 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :

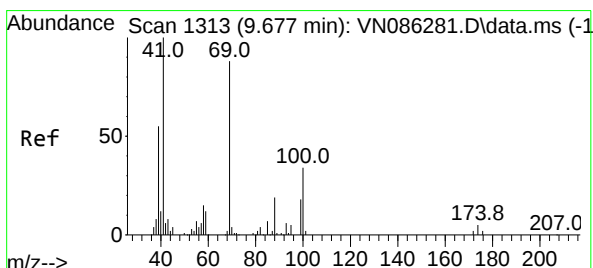
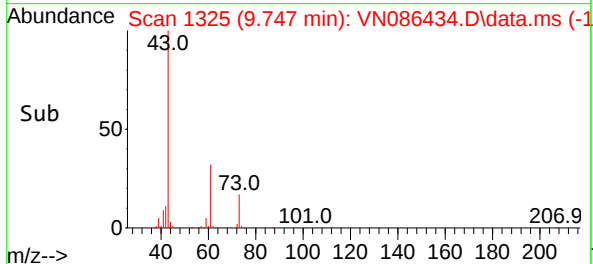
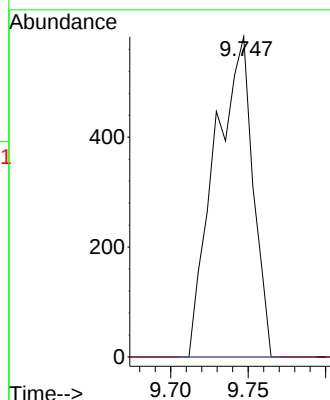
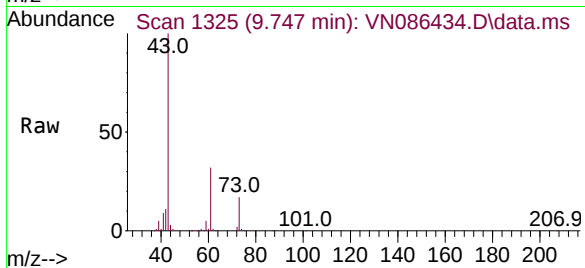
PB167775ZHE#04

Tgt Ion: 63 Resp: 997

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 1.866 ug/l

RT: 9.653 min Scan# 1309

Delta R.T. -0.024 min

Lab File: VN086434.D

Acq: 30 Apr 2025 14:14

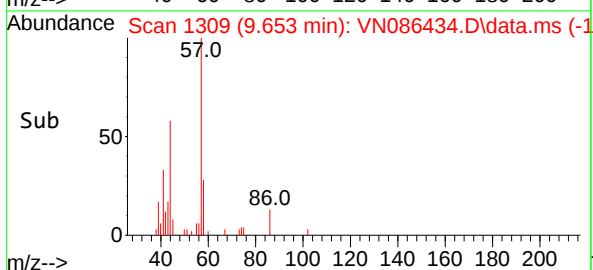
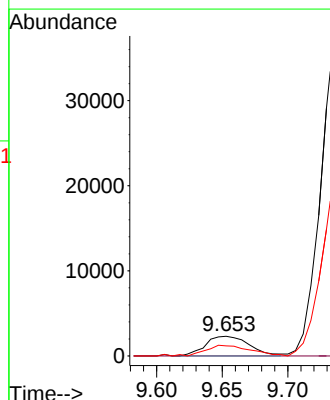
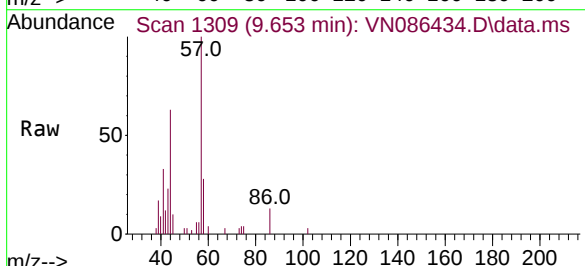
Tgt Ion: 41 Resp: 5384

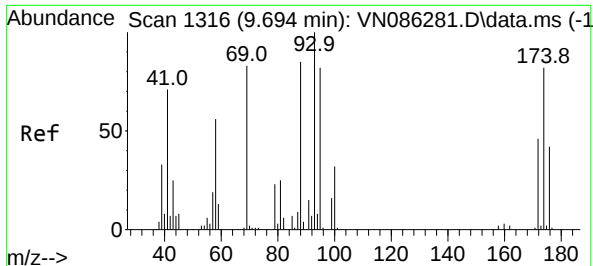
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 55.1 45.2 67.8

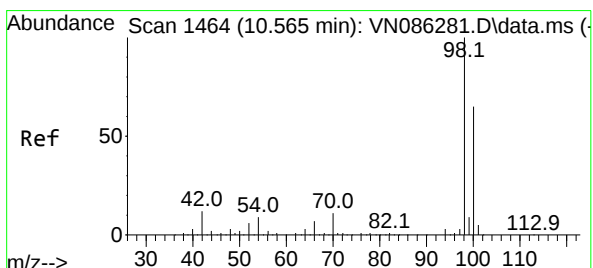
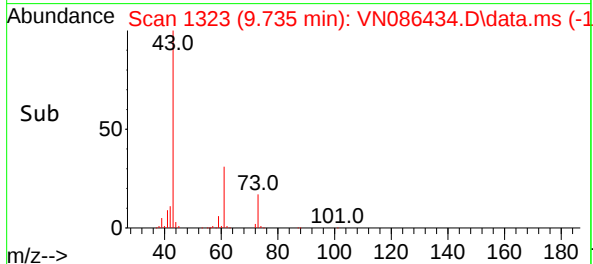
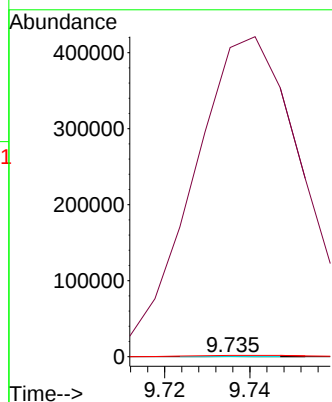
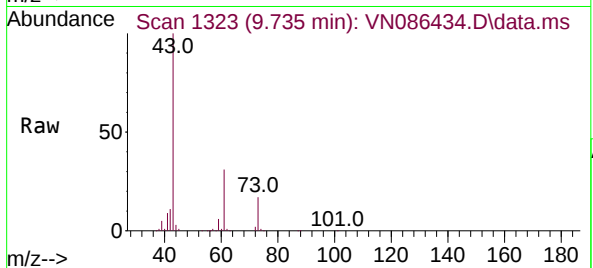




#49
1,4-Dioxane
Concen: 1.182 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

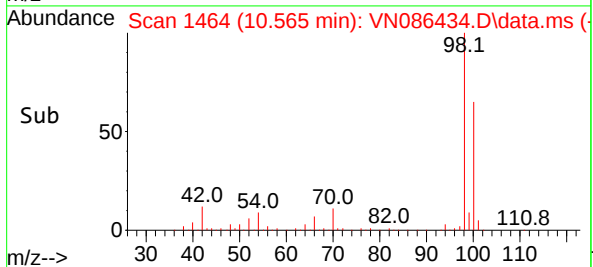
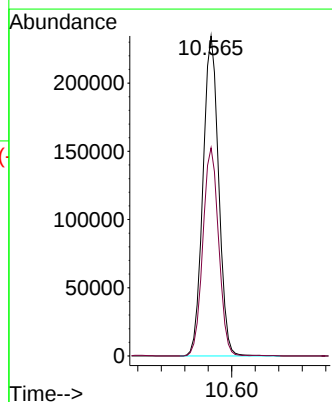
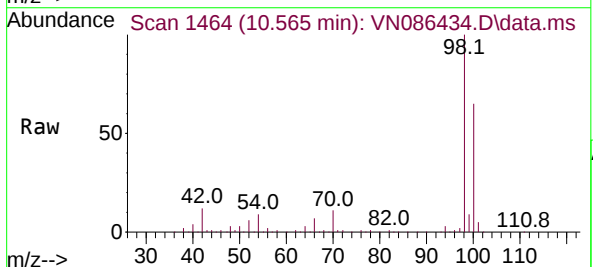
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#04

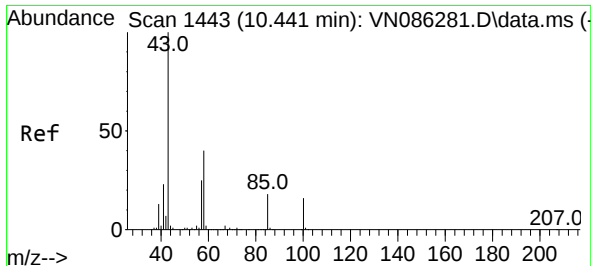
Tgt Ion: 88 Resp: 58
Ion Ratio Lower Upper
88 100
43 1338824.1 23.8 35.8#
58 5674.1 57.4 86.2#



#50
Toluene-d8
Concen: 52.008 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

Tgt Ion: 98 Resp: 434290
Ion Ratio Lower Upper
98 100
100 65.4 52.5 78.7

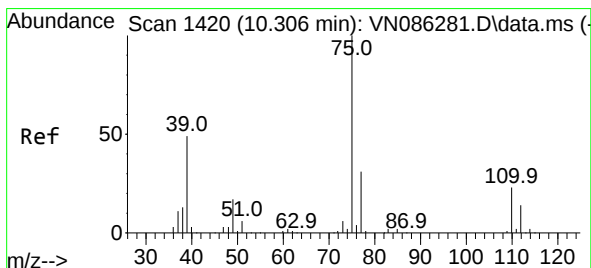
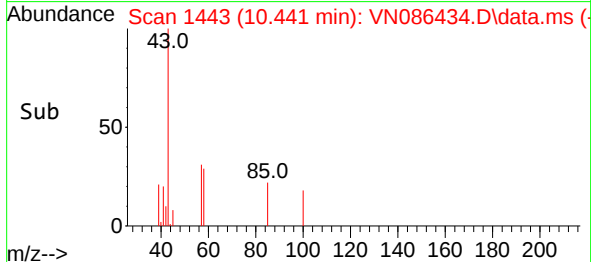
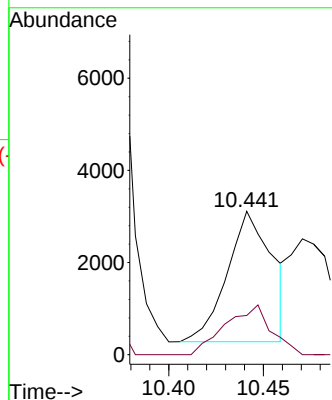
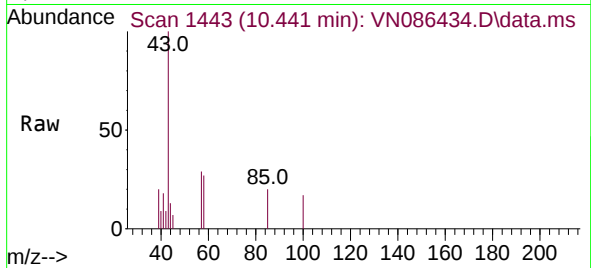




#51
4-Methyl-2-Pentanone
Concen: 1.392 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

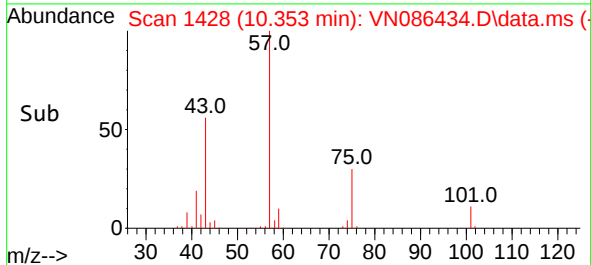
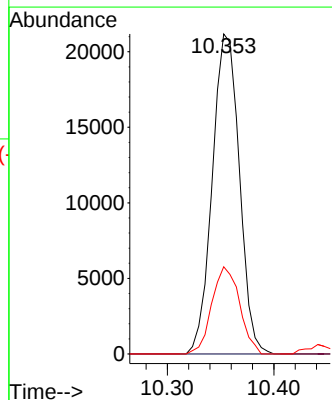
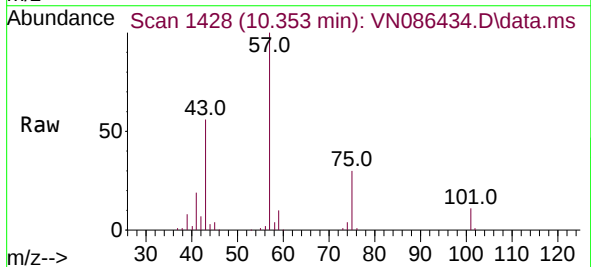
Instrument : MSVOA_N
ClientSampleId : PB167775ZHE#04

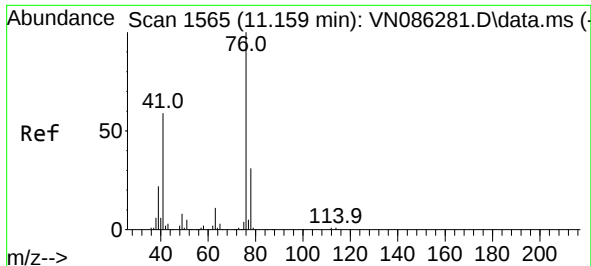
Tgt Ion: 43 Resp: 4682
Ion Ratio Lower Upper
43 100
58 38.8 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 9.051 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

Tgt Ion: 75 Resp: 37377
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 27.3 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.852 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086434.D

Acq: 30 Apr 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :

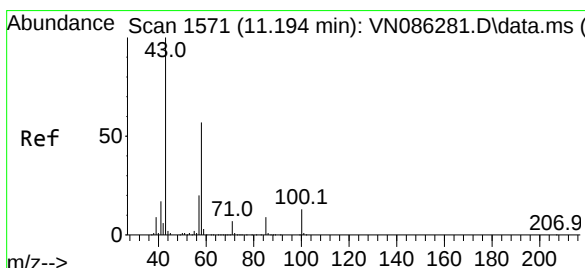
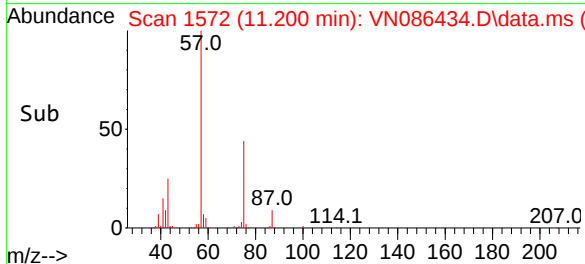
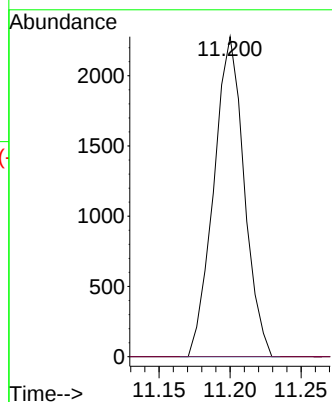
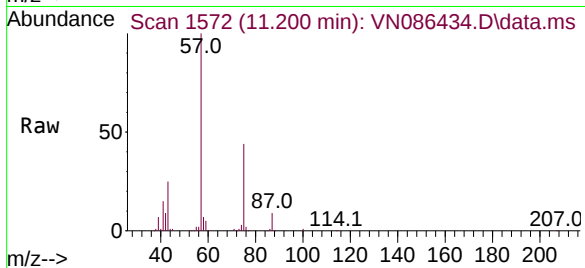
PB167775ZHE#04

Tgt Ion: 76 Resp: 3392

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 36.513 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086434.D

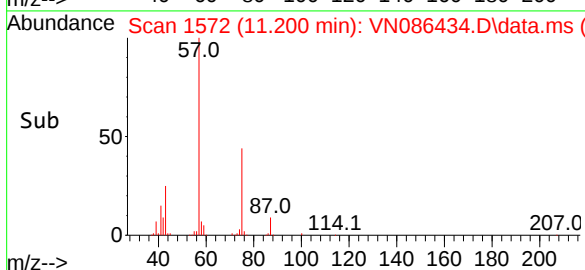
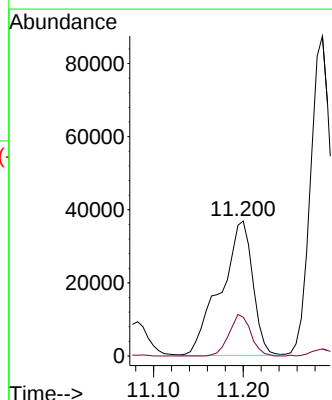
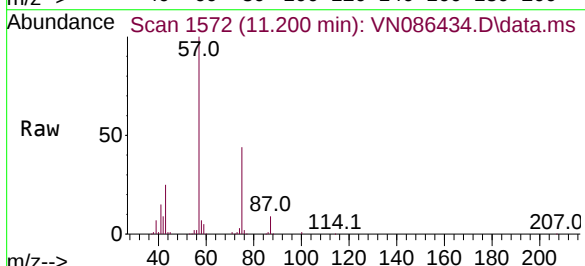
Acq: 30 Apr 2025 14:14

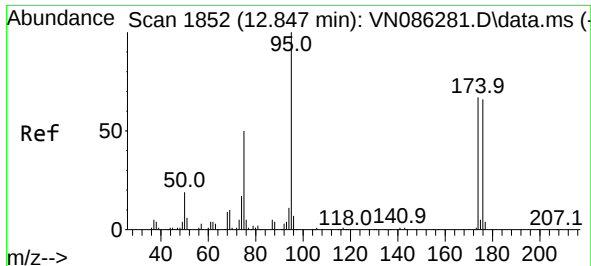
Tgt Ion: 43 Resp: 91117

Ion Ratio Lower Upper

43 100

58 21.0 28.3 85.0#

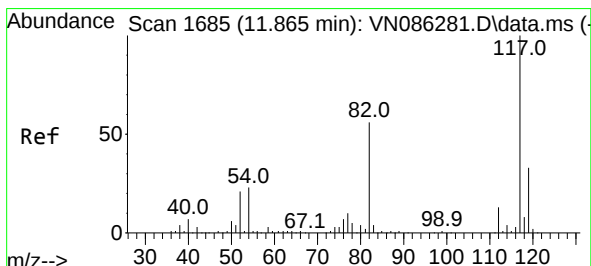
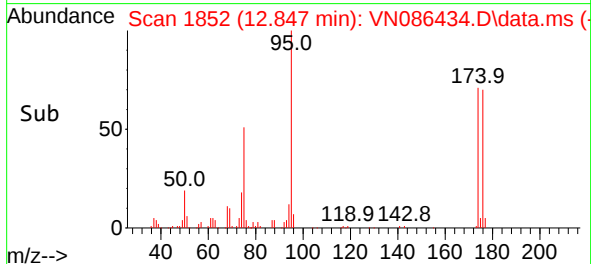
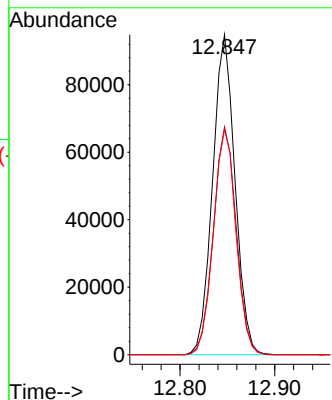
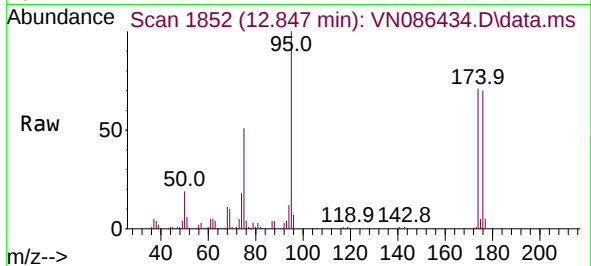




#62
4-Bromofluorobenzene
Concen: 51.075 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

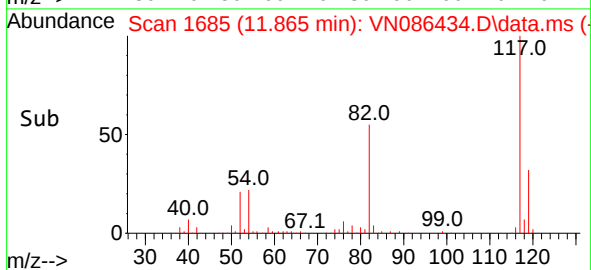
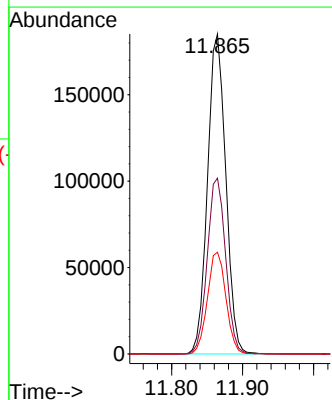
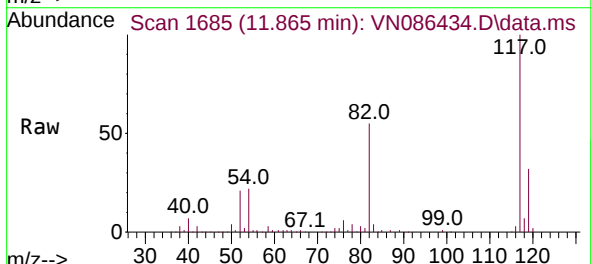
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#04

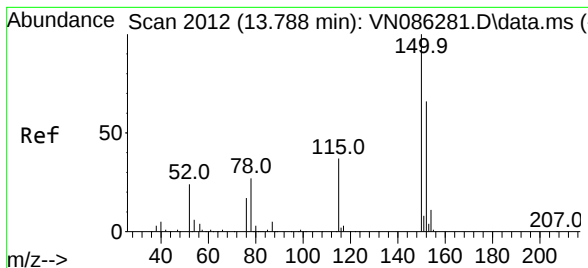
Tgt Ion: 95 Resp: 155561
Ion Ratio Lower Upper
95 100
174 72.6 0.0 133.4
176 70.9 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

Tgt Ion: 117 Resp: 330442
Ion Ratio Lower Upper
117 100
82 55.0 44.7 67.1
119 31.8 26.4 39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086434.D

Acq: 30 Apr 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#04

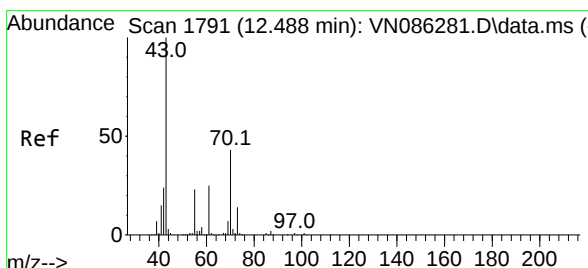
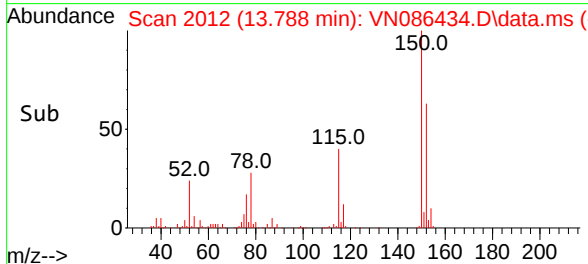
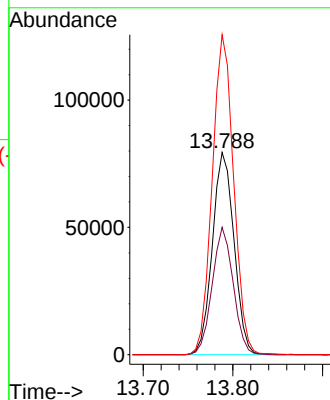
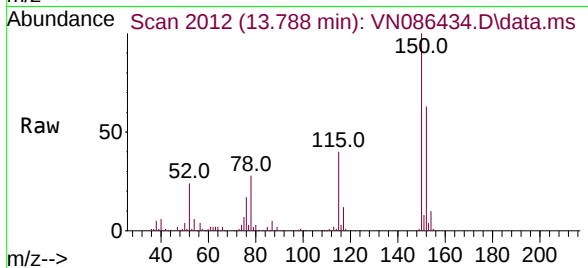
Tgt Ion:152 Resp: 133202

Ion Ratio Lower Upper

152 100

115 61.2 31.9 95.9

150 156.4 0.0 352.0



#74

N-ethyl acetate

Concen: 1.874 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.029 min

Lab File: VN086434.D

Acq: 30 Apr 2025 14:14

Tgt Ion: 43 Resp: 10164

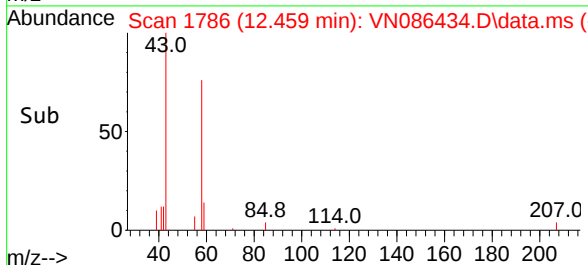
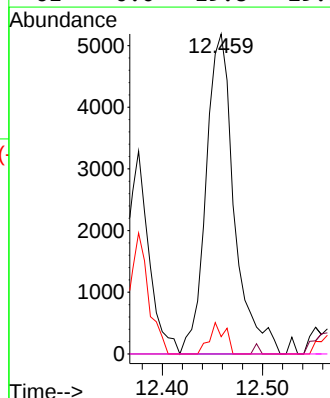
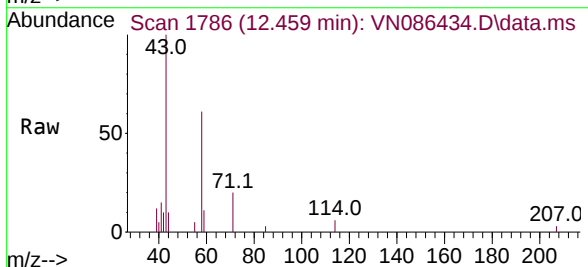
Ion Ratio Lower Upper

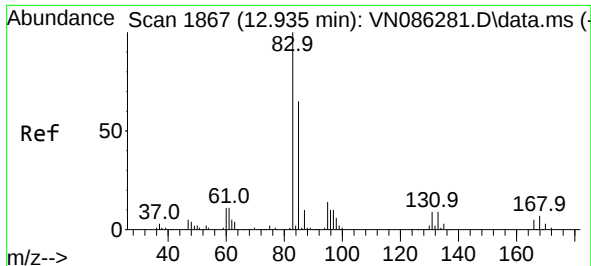
43 100

70 0.0 35.0 52.4#

55 5.5 19.0 28.4#

61 0.0 19.8 29.8#

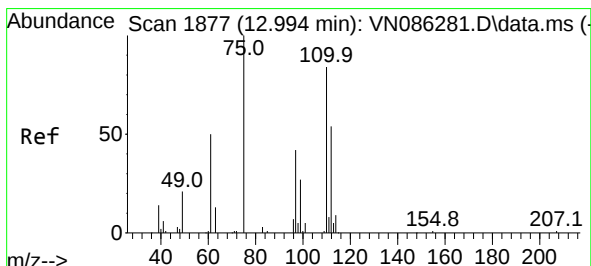
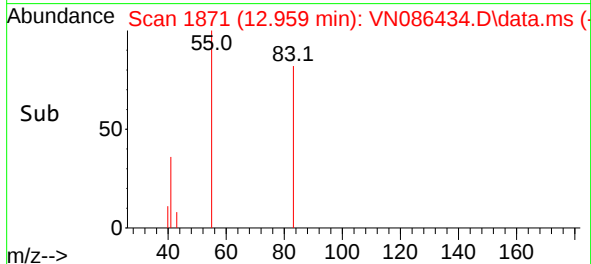
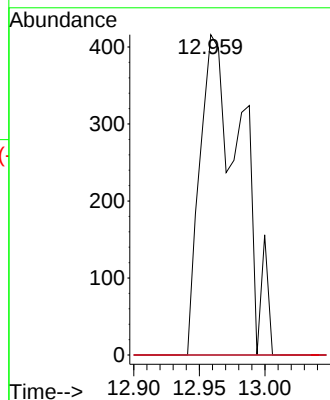
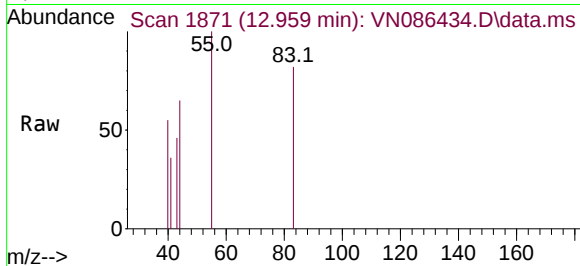




#75
1,1,2,2-Tetrachloroethane
Concen: 0.291 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.023 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

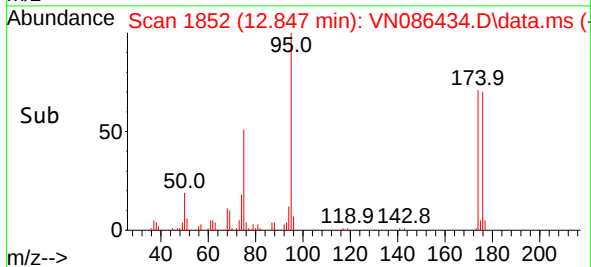
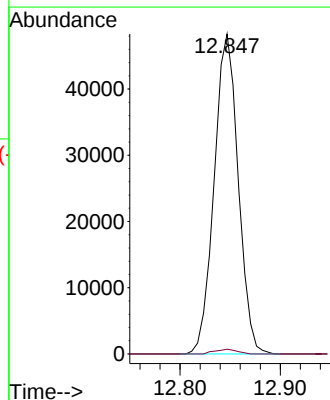
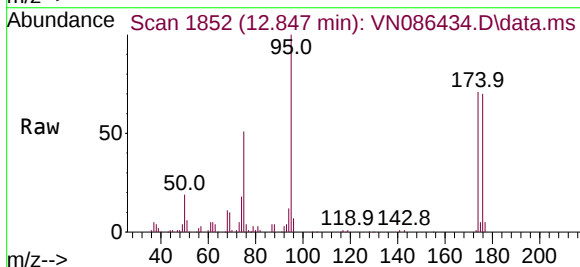
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#04

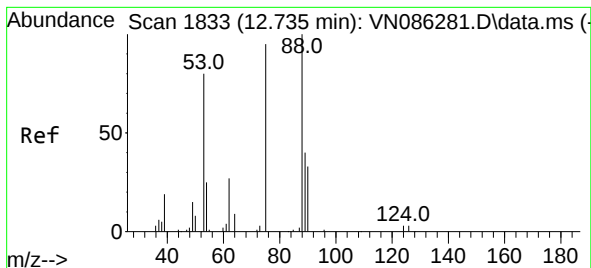
Tgt Ion: 83 Resp: 912
Ion Ratio Lower Upper
83 100
131 0.0 4.7 14.1#
85 0.0 32.7 98.1#



#76
1,2,3-Trichloropropane
Concen: 25.594 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086434.D
Acq: 30 Apr 2025 14:14

Tgt Ion: 75 Resp: 80450
Ion Ratio Lower Upper
75 100
77 1.4 98.8 296.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 61.466 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN086434.D

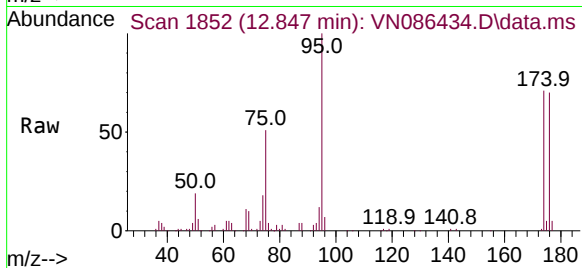
Acq: 30 Apr 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#04



Tgt Ion: 75 Resp: 80450

Ion Ratio Lower Upper

75 100

53 0.0 79.2 118.8#

89 0.0 35.7 53.5#

