

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN043025\
 Data File : VN086439.D
 Acq On : 30 Apr 2025 16:16
 Operator : JC\MD
 Sample : PB167775ZHE#09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#09

Quant Time: May 01 01:35:37 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)

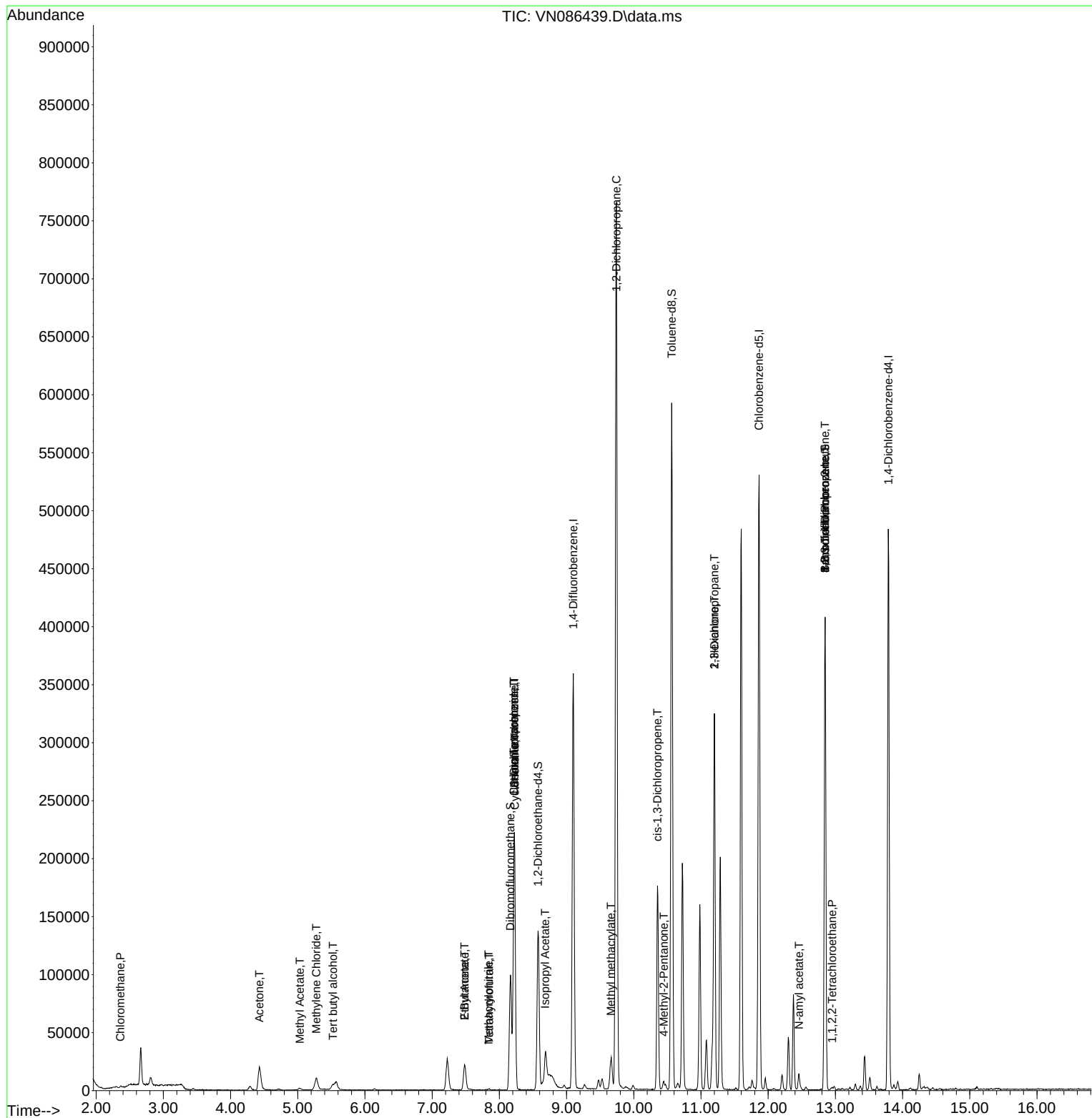
Internal Standards						
1) Pentafluorobenzene	8.224	168	162879	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	311087	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	305919	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	129664	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	113818	48.189	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.380%		
35) Dibromofluoromethane	8.165	113	73328	50.788	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.580%		
50) Toluene-d8	10.565	98	405841	52.595	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	105.200%		
62) 4-Bromofluorobenzene	12.847	95	145228	51.600	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	103.200%		
Target Compounds						Qvalue
3) Chloromethane	2.359	50	578	0.206	ug/l	89
11) Tert butyl alcohol	5.524	59	7834	18.179	ug/l	98
16) Acetone	4.430	43	38100	41.906	ug/l	98
18) Methyl Acetate	5.030	43	3508	1.237	ug/l #	87
20) Methylene Chloride	5.277	84	8708	3.988	ug/l	94
25) 2-Butanone	7.482	43	36726	24.981	ug/l	100
29) Tetrahydrofuran	7.847	42	980	0.997	ug/l #	37
31) Cyclohexane	8.229	56	3953	1.033	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	14182	4.918	ug/l #	49
37) Ethyl Acetate	7.482	43	36726	12.097	ug/l #	68
38) Carbon Tetrachloride	8.218	117	16870	6.143	ug/l #	15
41) Methacrylonitrile	7.841	41	403	0.229	ug/l #	31
43) Isopropyl Acetate	8.682	43	54215	8.237	ug/l #	74
45) 1,2-Dichloropropane	9.741	63	907	0.401	ug/l #	43
48) Methyl methacrylate	9.659	41	5130	1.924	ug/l #	44
51) 4-Methyl-2-Pentanone	10.447	43	4800	1.544	ug/l	99
54) cis-1,3-Dichloropropene	10.353	75	33192	8.698	ug/l #	61
57) 1,3-Dichloropropane	11.200	76	2912	0.791	ug/l #	43
59) 2-Hexanone	11.200	43	86325	37.436	ug/l #	53
71) Bromoform	12.847	173	920	0.543	ug/l #	1
74) N-amyl acetate	12.459	43	10436	1.976	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	12.953	83	787	0.258	ug/l #	25
76) 1,2,3-Trichloropropane	12.847	75	75877	24.797	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75877	59.554	ug/l #	10

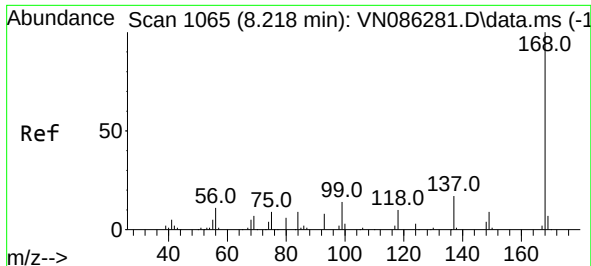
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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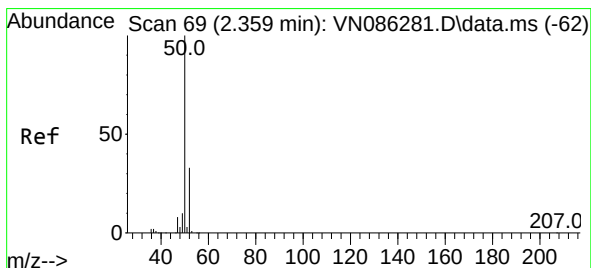
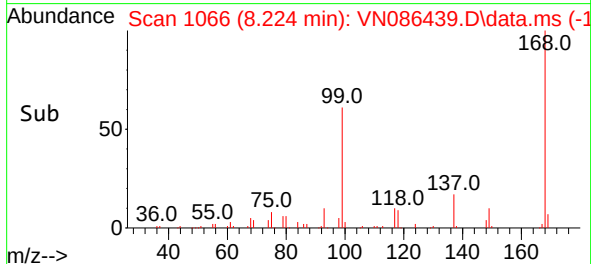
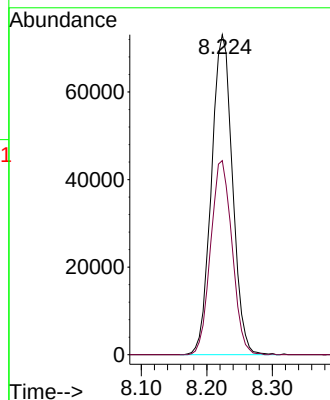
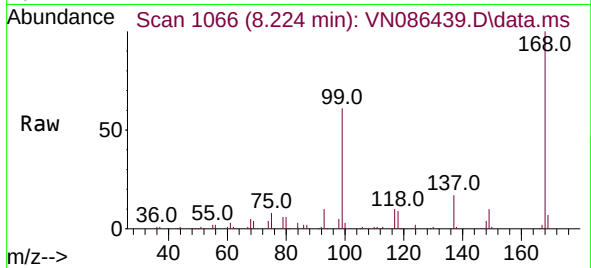




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

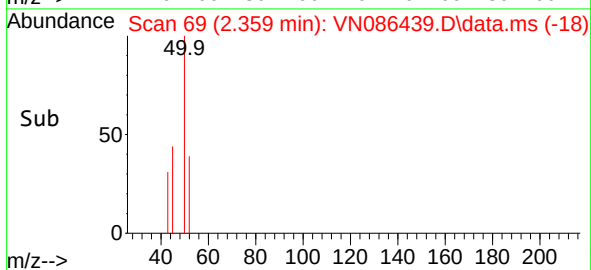
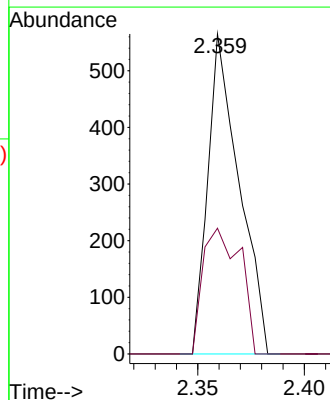
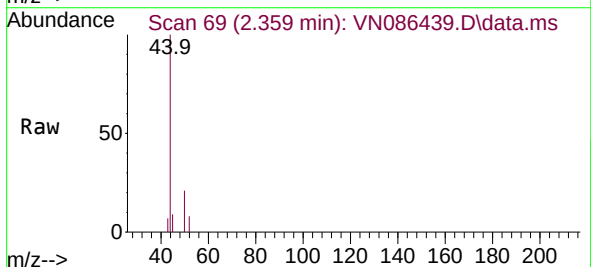
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#09

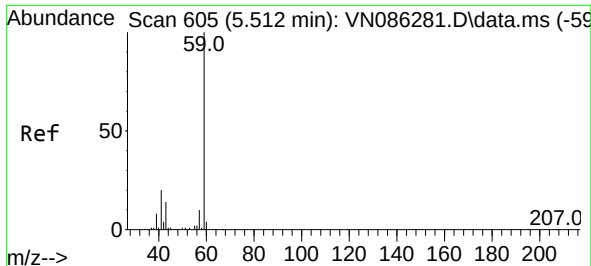
Tgt Ion:168 Resp: 162879
Ion Ratio Lower Upper
168 100
99 60.6 52.5 78.7



#3
Chloromethane
Concen: 0.206 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion: 50 Resp: 578
Ion Ratio Lower Upper
50 100
52 39.3 26.5 39.7

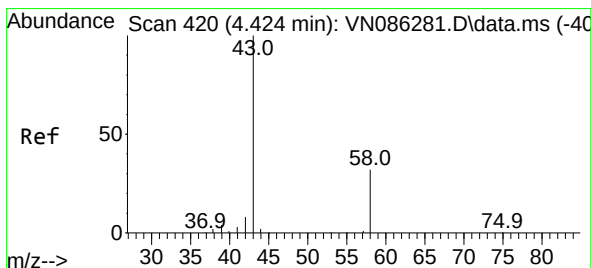
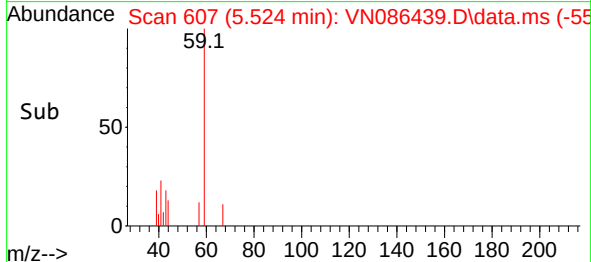
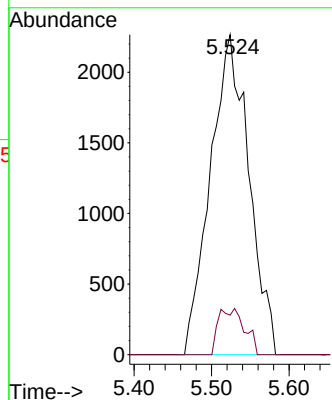
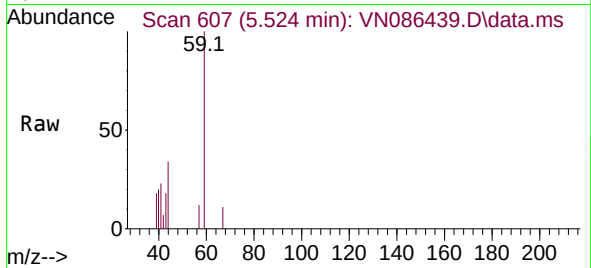




#11
Tert butyl alcohol
Concen: 18.179 ug/l
RT: 5.524 min Scan# 605
Delta R.T. 0.012 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

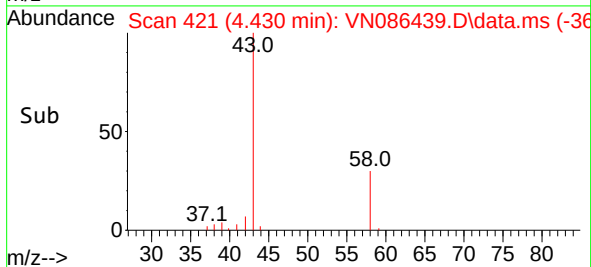
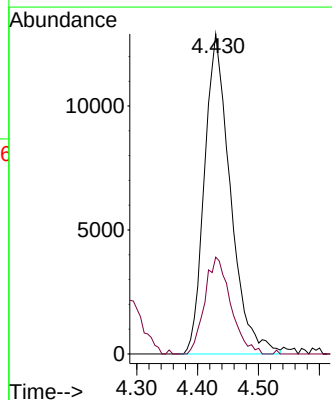
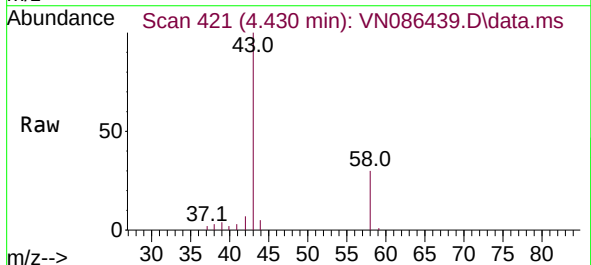
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#09

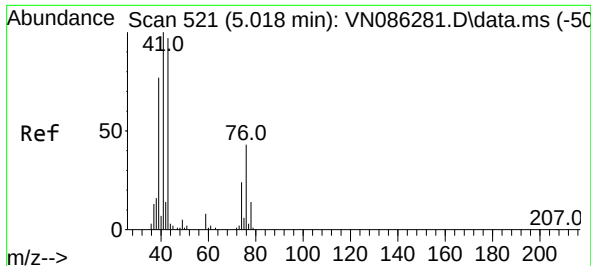
Tgt Ion: 59 Resp: 7834
Ion Ratio Lower Upper
59 100
57 9.8 8.3 12.5



#16
Acetone
Concen: 41.906 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion: 43 Resp: 38100
Ion Ratio Lower Upper
43 100
58 30.3 25.3 37.9

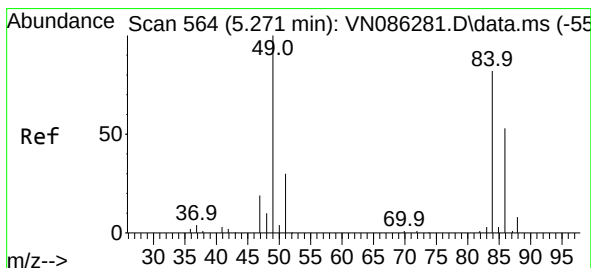
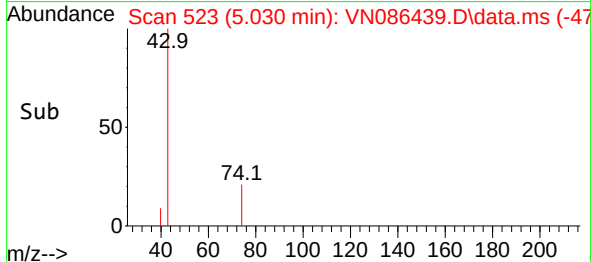
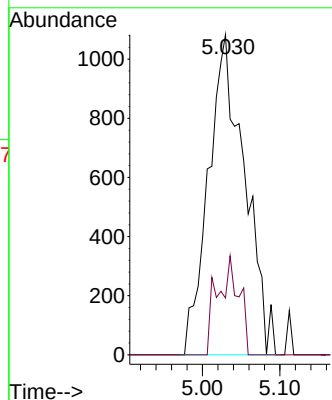
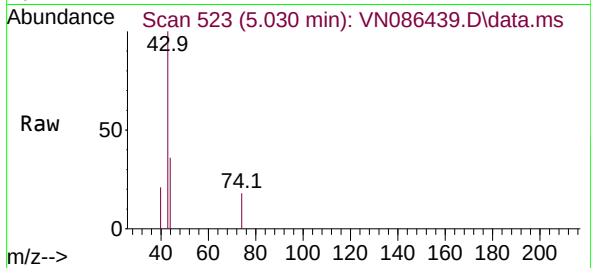




#18
Methyl Acetate
Concen: 1.237 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

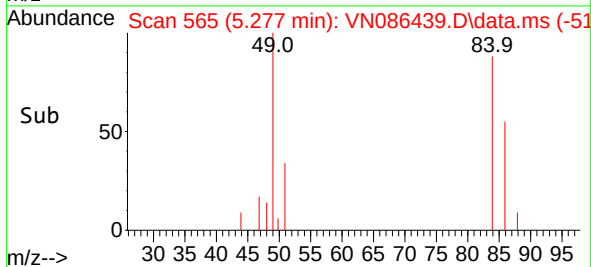
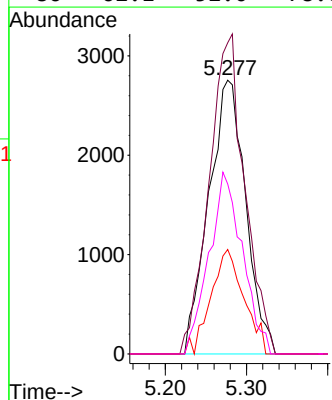
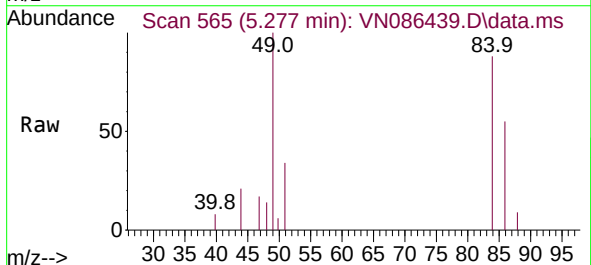
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#09

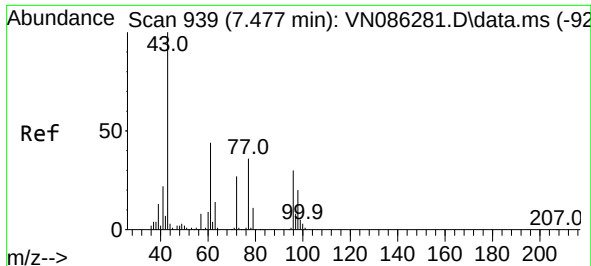
Tgt Ion: 43 Resp: 3508
Ion Ratio Lower Upper
43 100
74 18.3 19.8 29.6#



#20
Methylene Chloride
Concen: 3.988 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion: 84 Resp: 8708
Ion Ratio Lower Upper
84 100
49 113.7 98.2 147.2
51 38.1 29.8 44.6
86 62.1 52.0 78.0

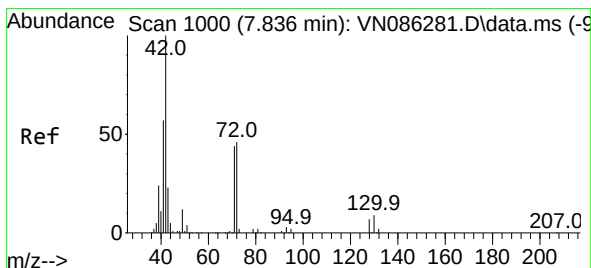
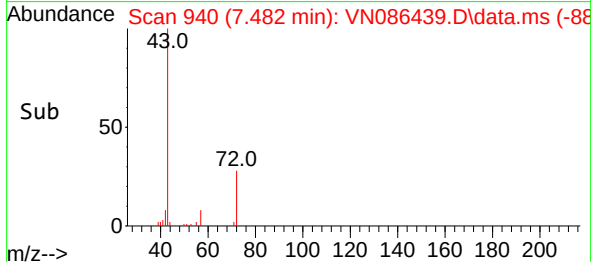
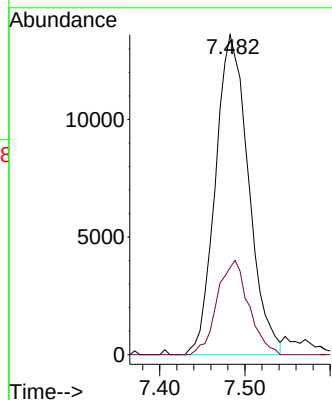
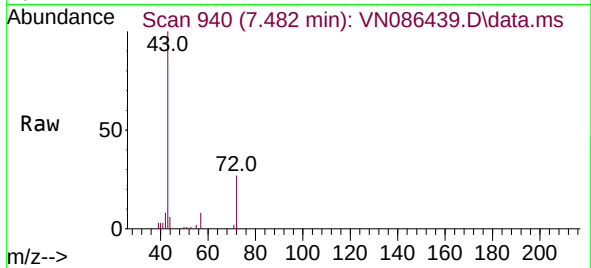




#25
2-Butanone
Concen: 24.981 ug/l
RT: 7.482 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

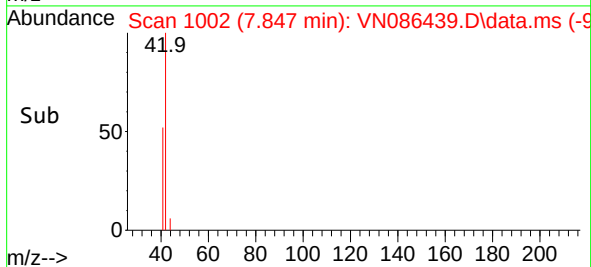
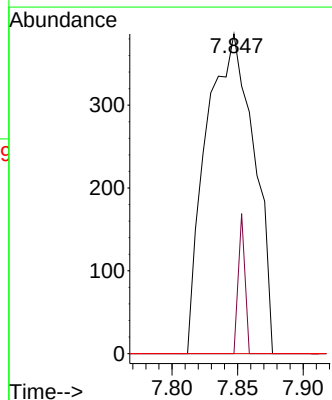
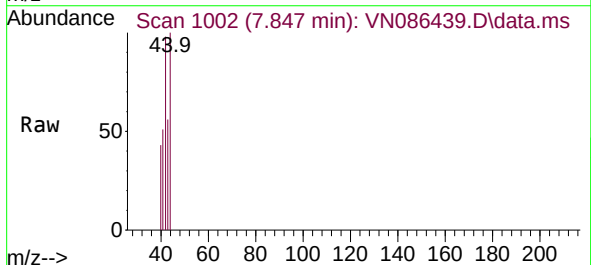
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#09

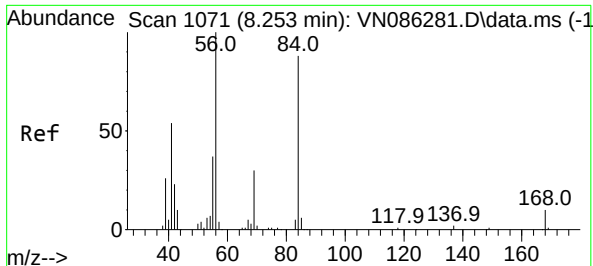
Tgt Ion: 43 Resp: 36726
Ion Ratio Lower Upper
43 100
72 27.3 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.997 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion: 42 Resp: 980
Ion Ratio Lower Upper
42 100
72 6.1 36.2 54.4#
71 0.0 34.0 51.0#

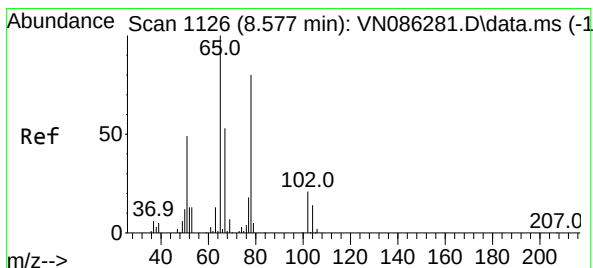
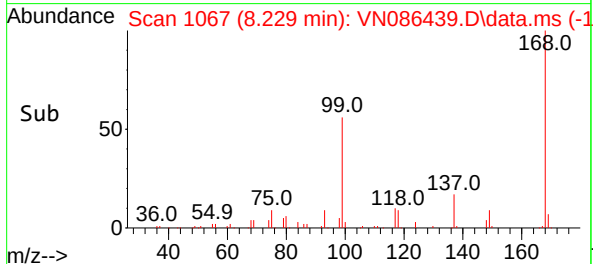
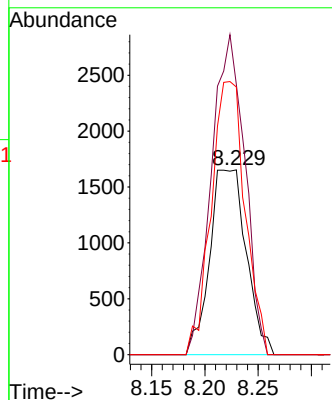
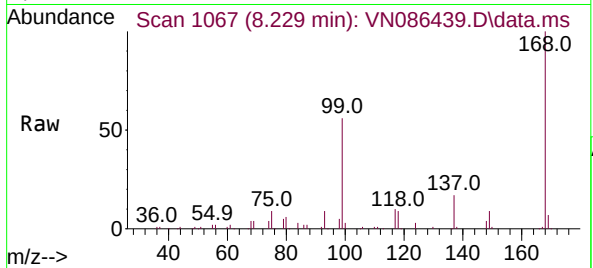




#31
Cyclohexane
Concen: 1.033 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.024 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

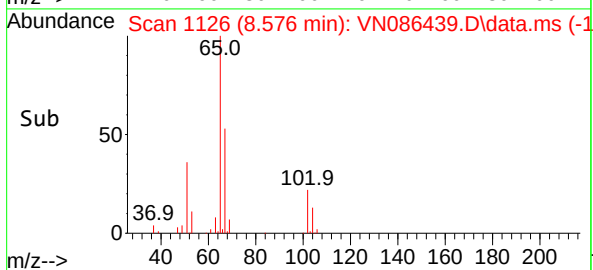
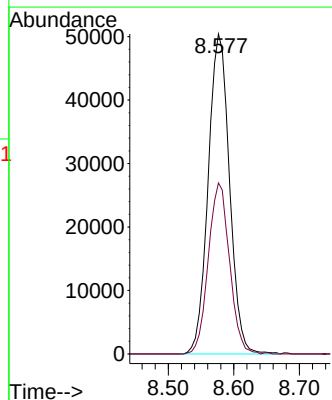
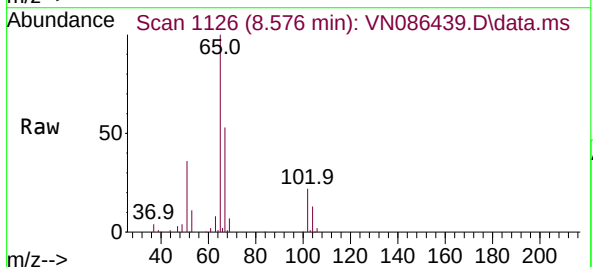
Instrument :
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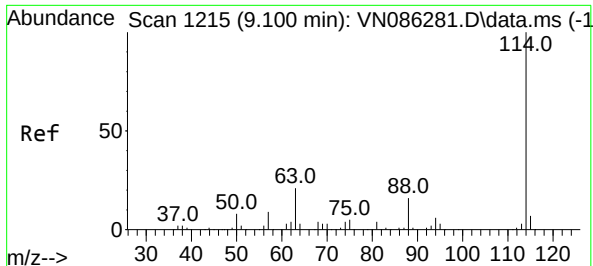
Tgt Ion: 56 Resp: 3953
Ion Ratio Lower Upper
56 100
69 146.1 24.2 36.2#
84 144.8 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 48.189 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion: 65 Resp: 113818
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086439.D

Acq: 30 Apr 2025 16:16

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#09

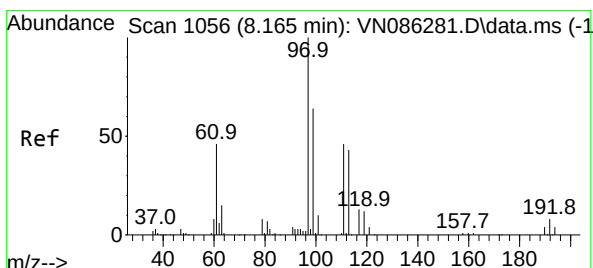
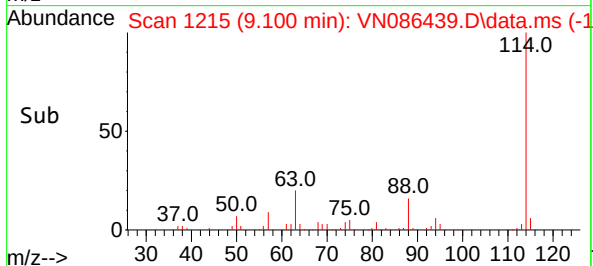
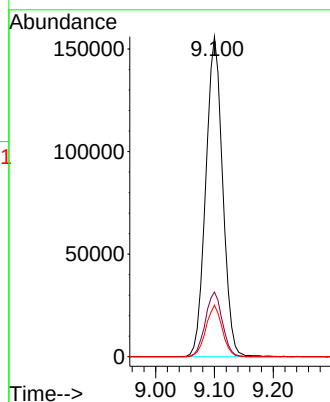
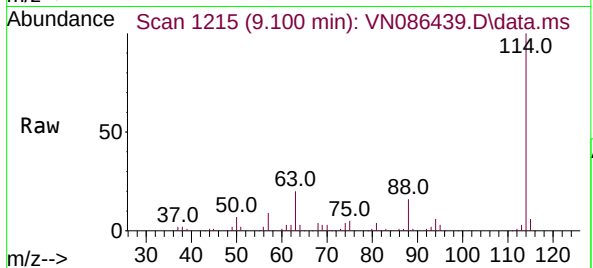
Tgt Ion:114 Resp: 311087

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 16.1 0.0 31.8



#35

Dibromofluoromethane

Concen: 50.788 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086439.D

Acq: 30 Apr 2025 16:16

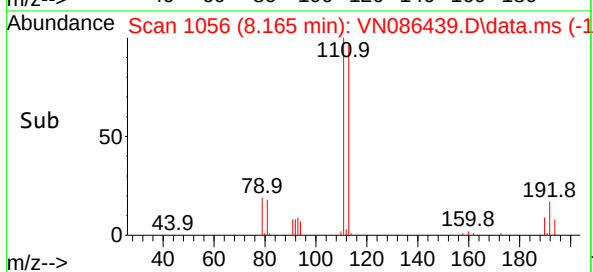
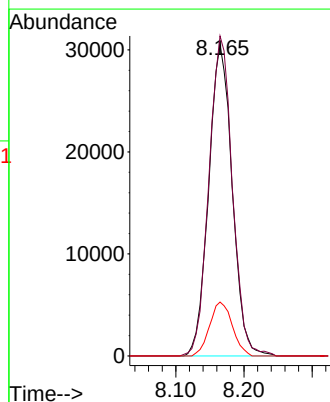
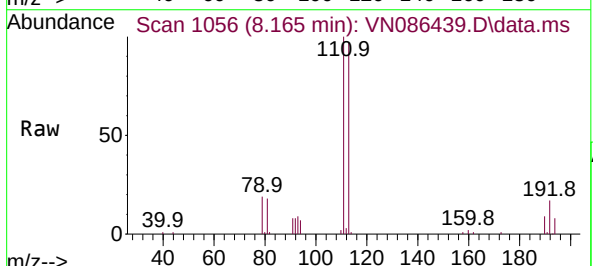
Tgt Ion:113 Resp: 73328

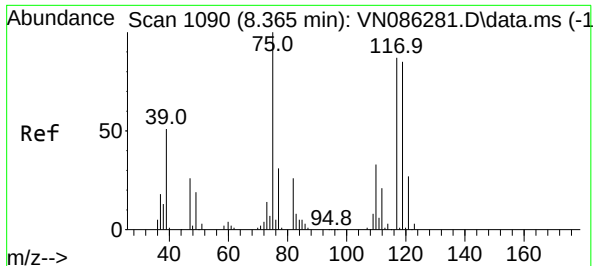
Ion Ratio Lower Upper

113 100

111 102.5 83.4 125.0

192 16.7 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.918 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN086439.D

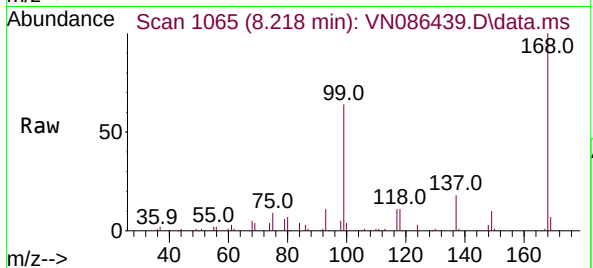
Acq: 30 Apr 2025 16:16

Instrument :

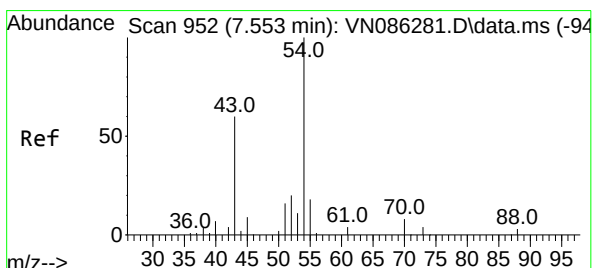
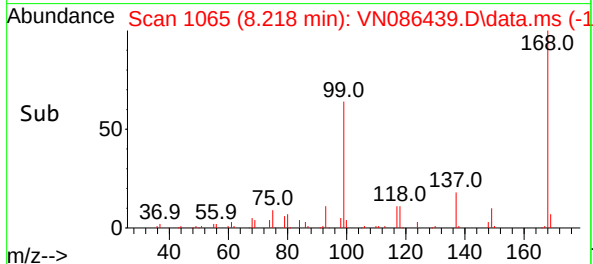
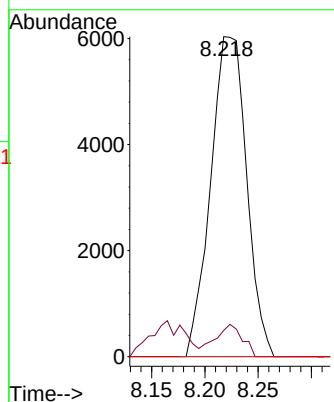
MSVOA_N

ClientSampleId :

PB167775ZHE#09



Tgt Ion:	75	Resp:	14182
Ion	Ratio	Lower	Upper
75	100		
110	7.7	16.8	50.4#
77	0.0	24.9	37.3#



#37

Ethyl Acetate

Concen: 12.097 ug/l

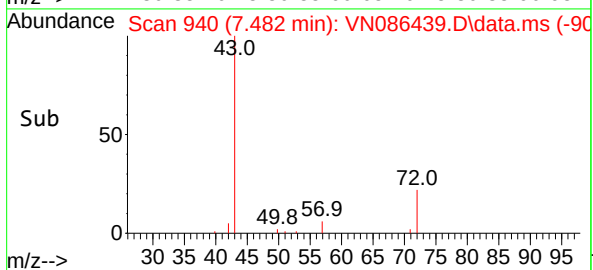
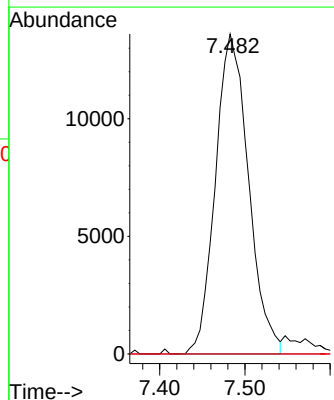
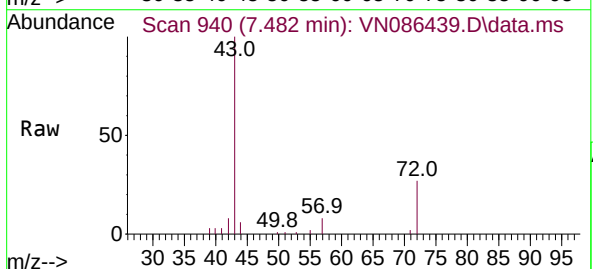
RT: 7.482 min Scan# 940

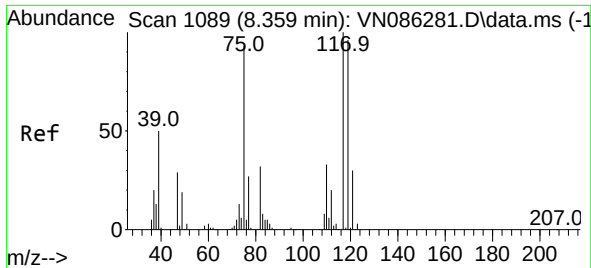
Delta R.T. -0.071 min

Lab File: VN086439.D

Acq: 30 Apr 2025 16:16

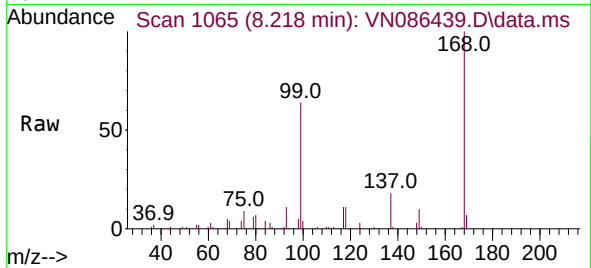
Tgt Ion:	43	Resp:	36726
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.1	16.7#
70	0.0	9.2	13.8#



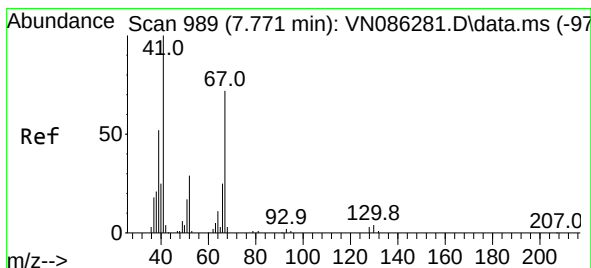
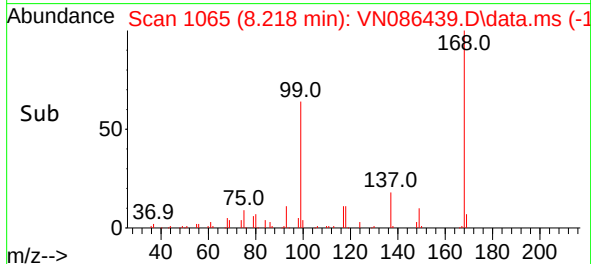
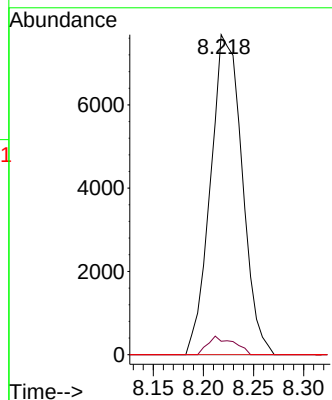


#38
Carbon Tetrachloride
Concen: 6.143 ug/l
RT: 8.218 min Scan# 1001
Delta R.T. -0.141 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#09

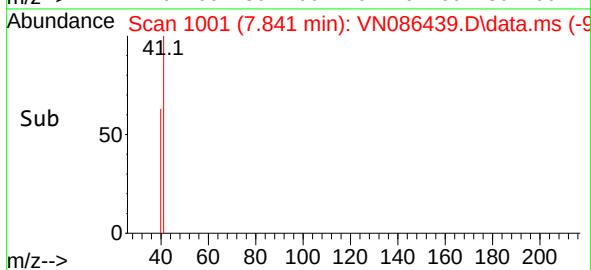
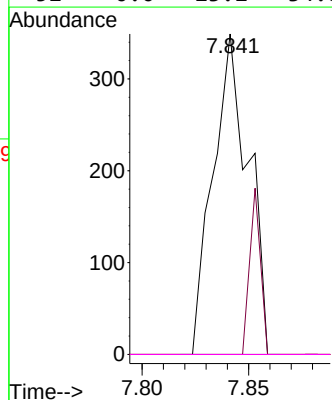
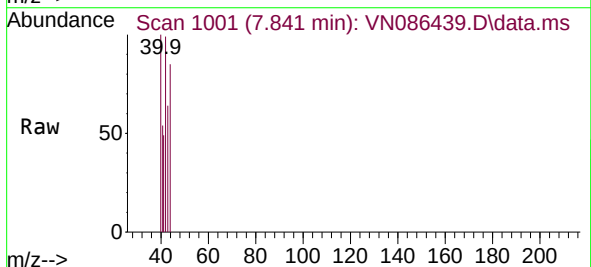


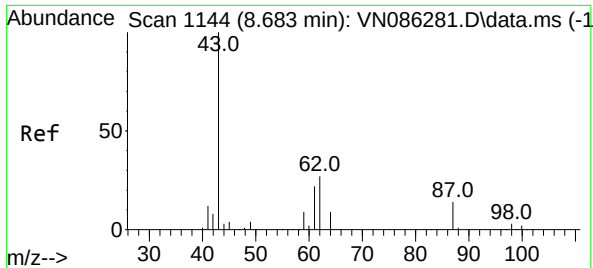
Tgt Ion: 117 Resp: 16870
Ion Ratio Lower Upper
117 100
119 4.2 76.8 115.2#
121 0.0 23.8 35.8#



#41
Methacrylonitrile
Concen: 0.229 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.070 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion: 41 Resp: 403
Ion Ratio Lower Upper
41 100
39 15.9 43.0 64.4#
67 0.0 58.8 88.2#
52 0.0 23.2 34.8#

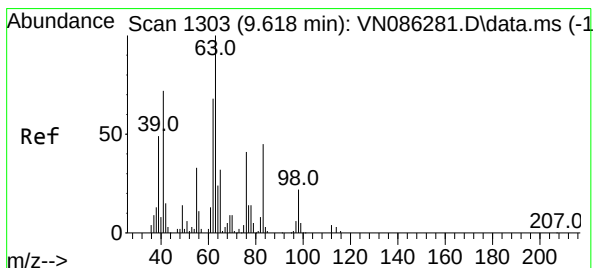
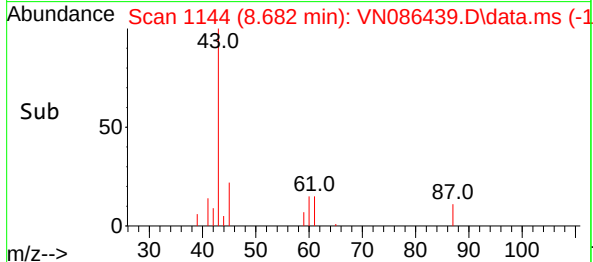
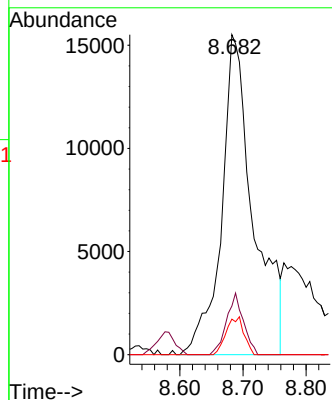
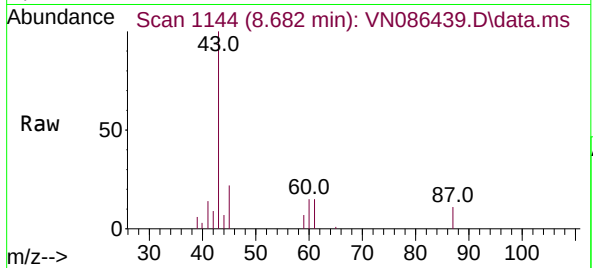




#43
Isopropyl Acetate
Concen: 8.237 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

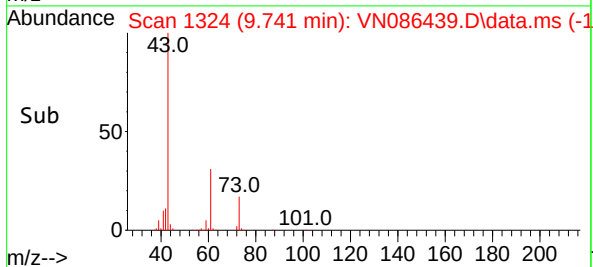
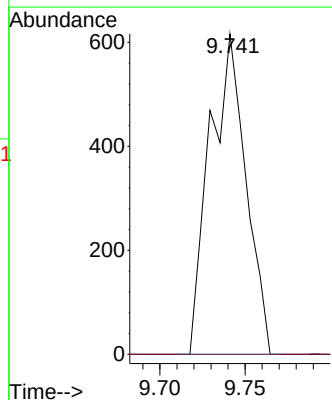
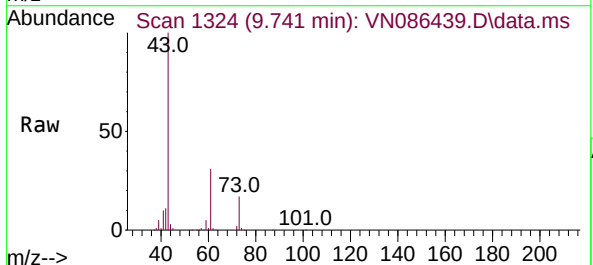
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#09

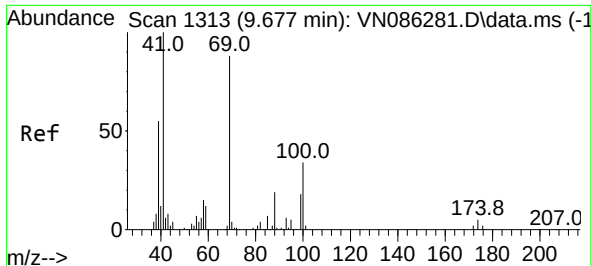
Tgt Ion: 43 Resp: 54215
Ion Ratio Lower Upper
43 100
61 10.3 20.5 30.7#
87 6.6 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.401 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion: 63 Resp: 907
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

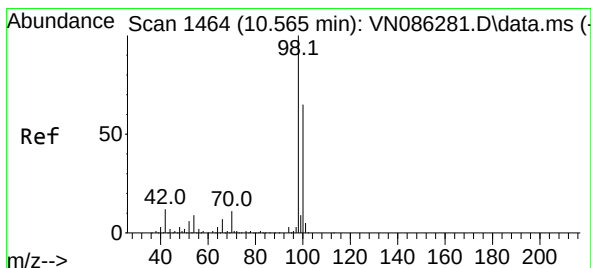
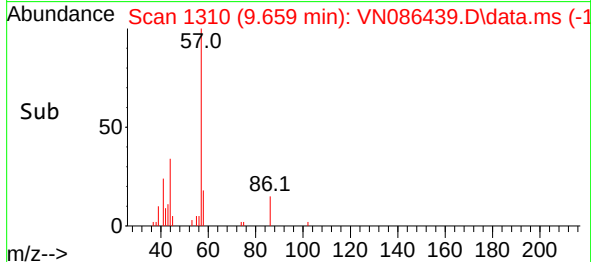
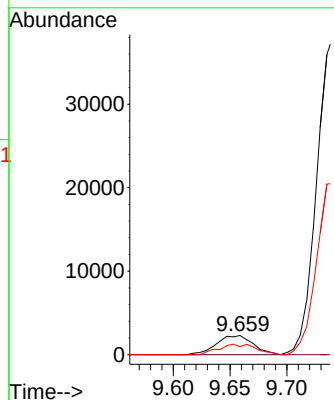
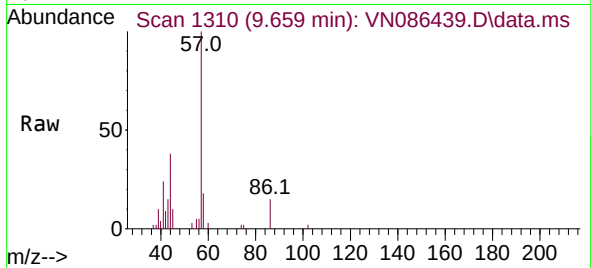




#48
Methyl methacrylate
Concen: 1.924 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

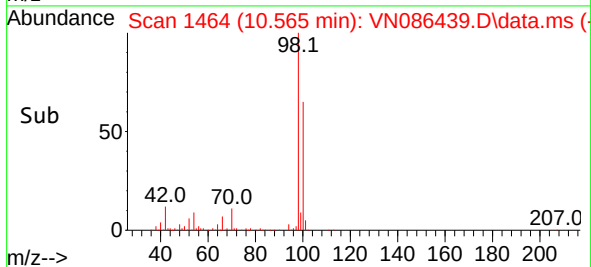
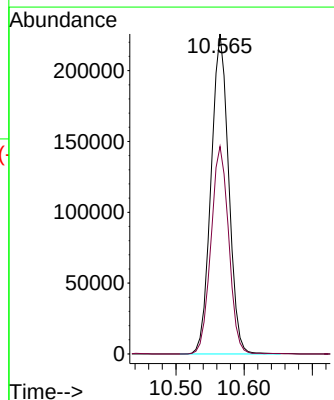
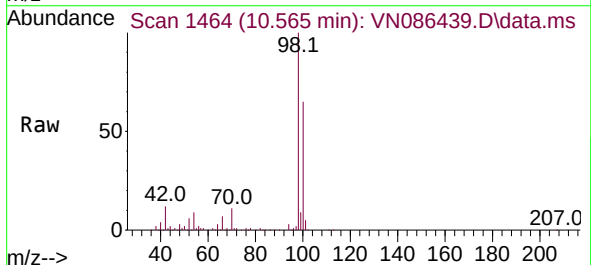
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#09

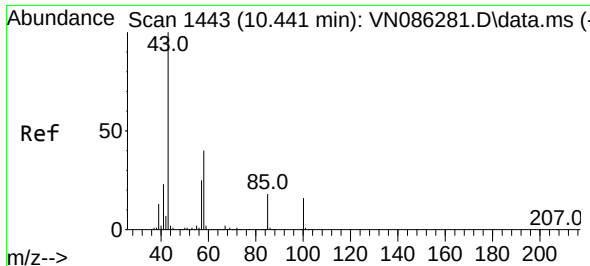
Tgt Ion: 41 Resp: 5130
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 55.8 45.2 67.8



#50
Toluene-d8
Concen: 52.595 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion: 98 Resp: 405841
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7

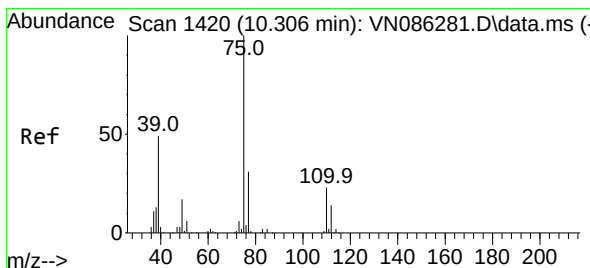
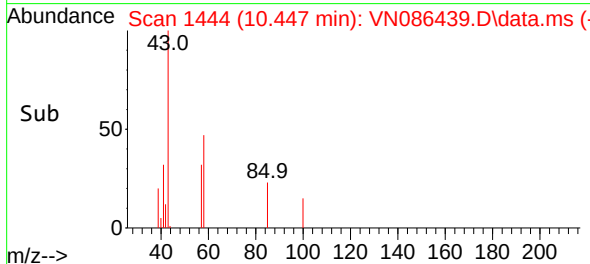
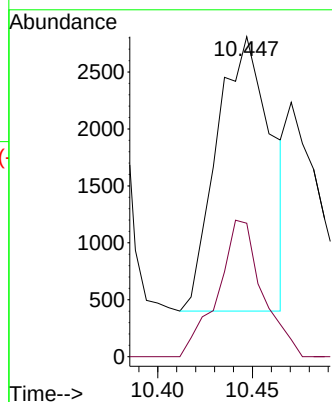
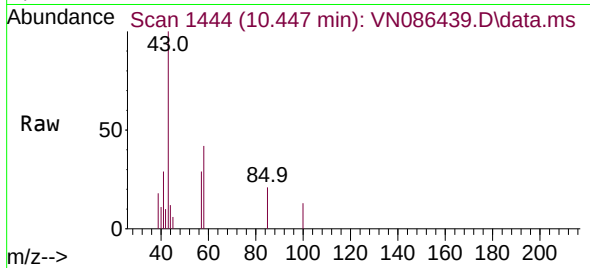




#51
4-Methyl-2-Pentanone
Concen: 1.544 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

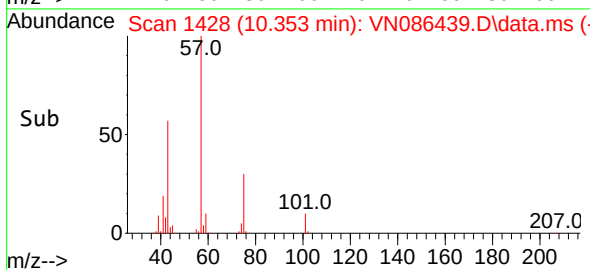
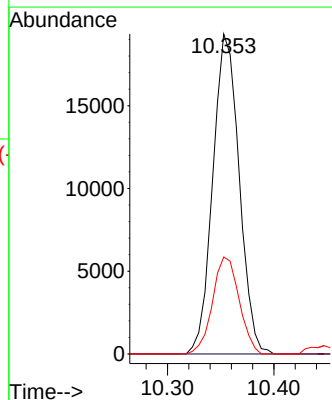
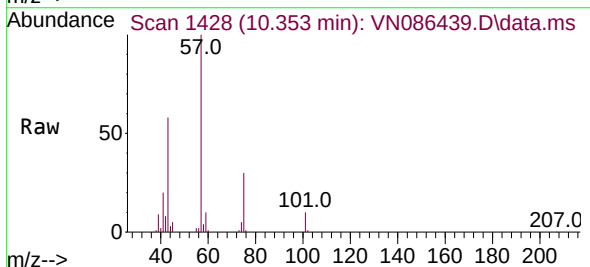
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#09

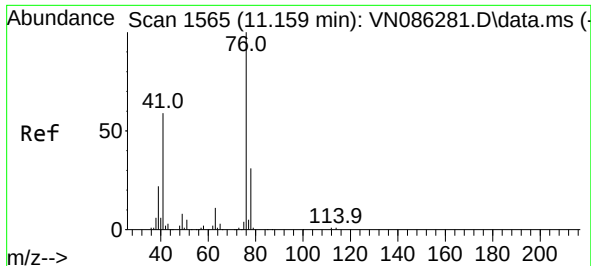
Tgt Ion: 43 Resp: 4800
Ion Ratio Lower Upper
43 100
58 40.7 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.698 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion: 75 Resp: 33192
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 30.3 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.791 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086439.D

Acq: 30 Apr 2025 16:16

Instrument :

MSVOA_N

ClientSampleId :

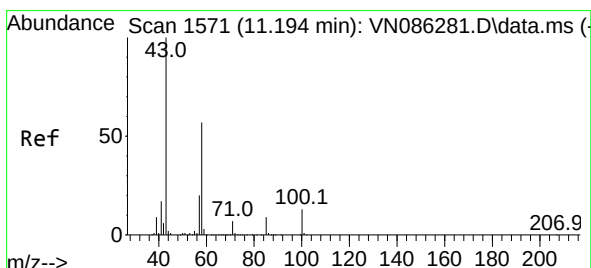
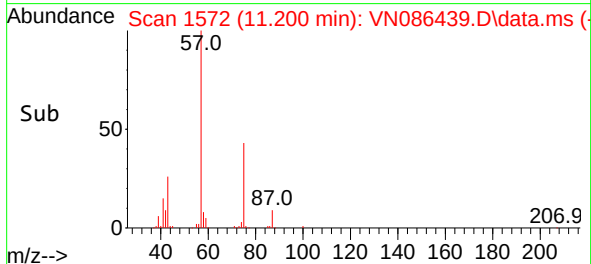
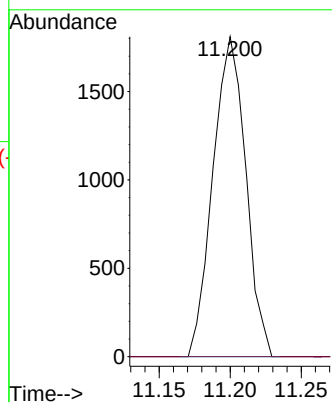
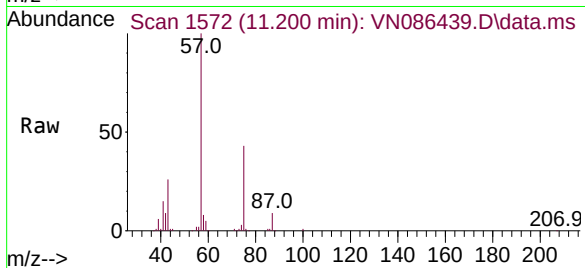
PB167775ZHE#09

Tgt Ion: 76 Resp: 2912

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 37.436 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086439.D

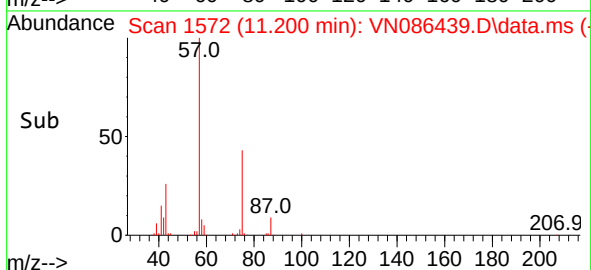
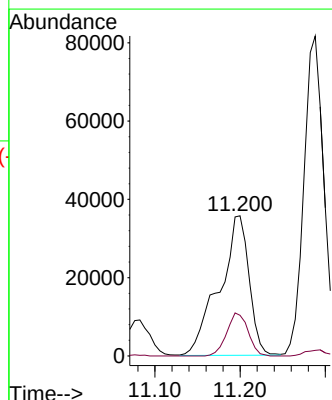
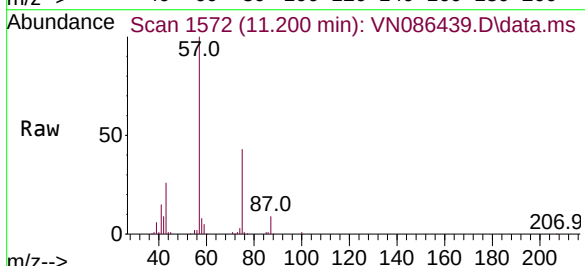
Acq: 30 Apr 2025 16:16

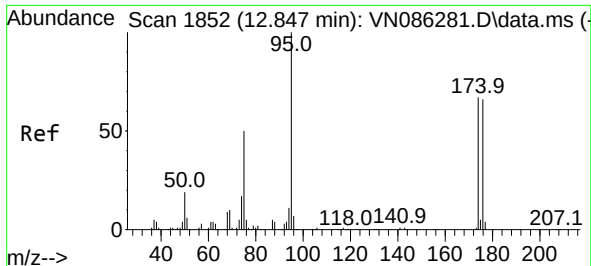
Tgt Ion: 43 Resp: 86325

Ion Ratio Lower Upper

43 100

58 22.2 28.3 85.0#

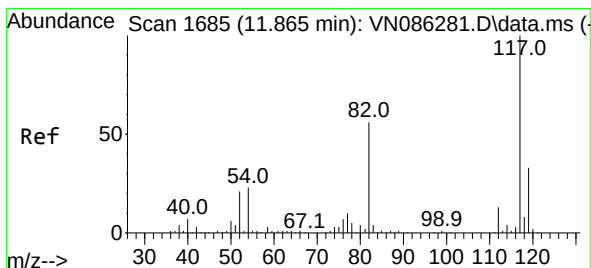
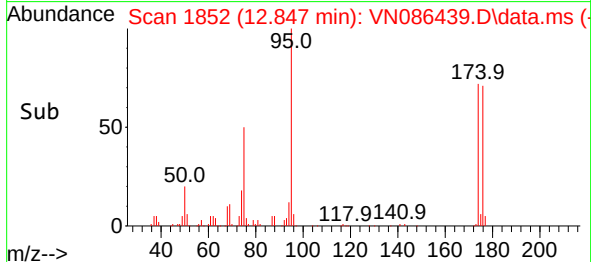
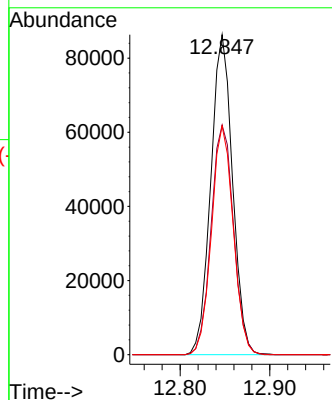
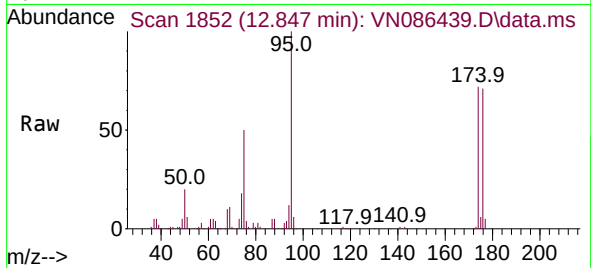




#62
4-Bromofluorobenzene
Concen: 51.600 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

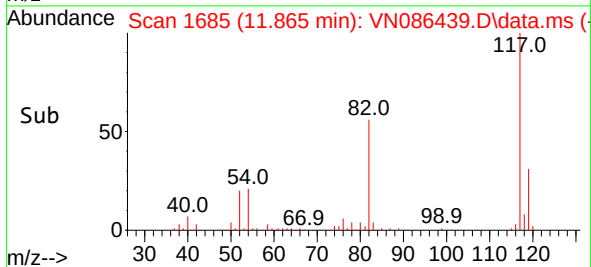
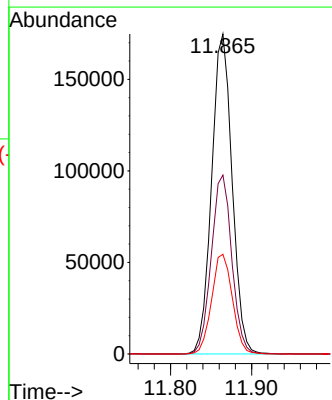
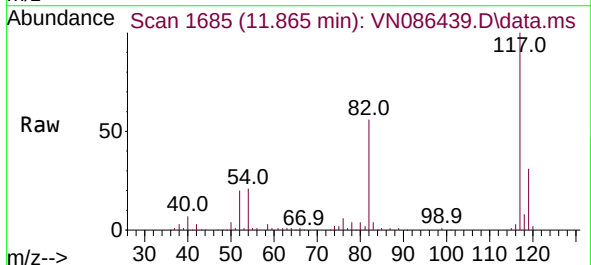
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#09

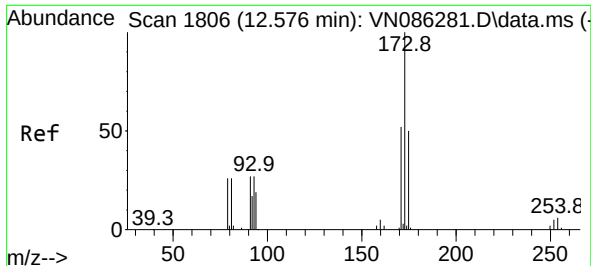
Tgt Ion: 95 Resp: 145228
Ion Ratio Lower Upper
95 100
174 74.1 0.0 133.4
176 71.5 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion: 117 Resp: 305919
Ion Ratio Lower Upper
117 100
82 55.9 44.7 67.1
119 31.2 26.4 39.6

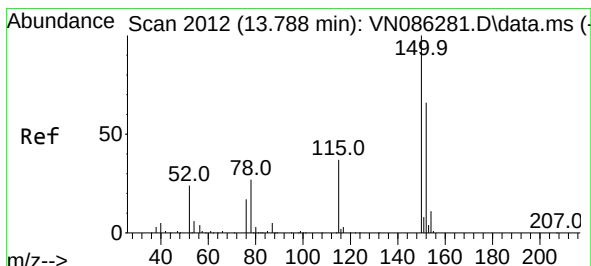
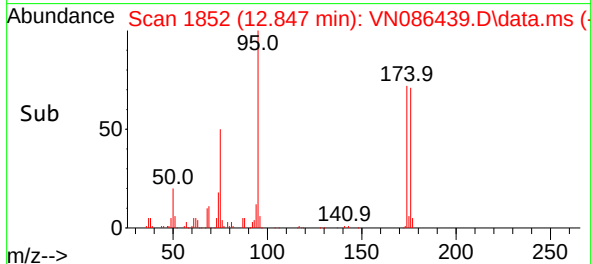
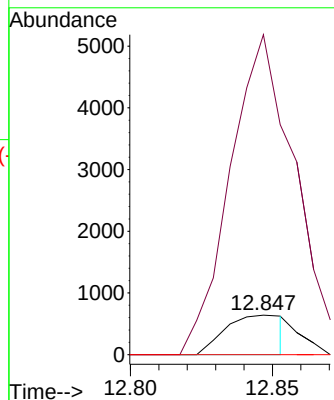
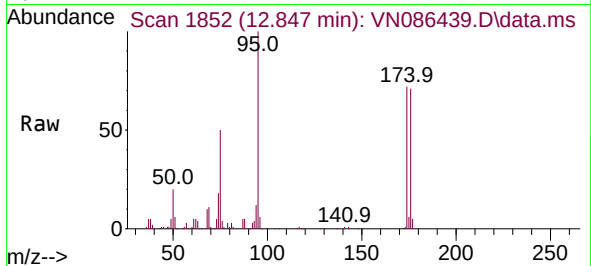




#71
Bromoform
Concen: 0.543 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.270 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

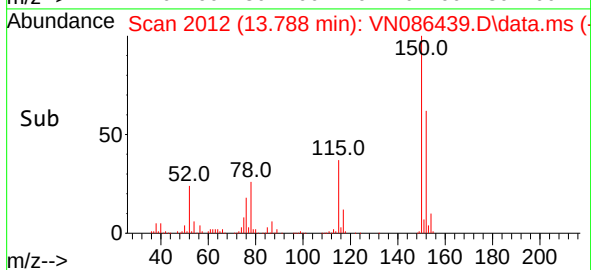
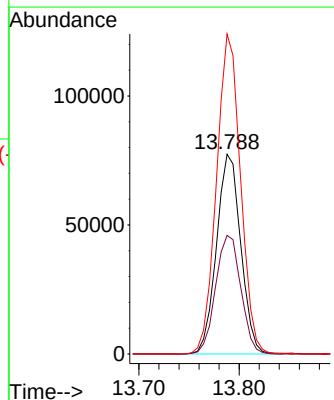
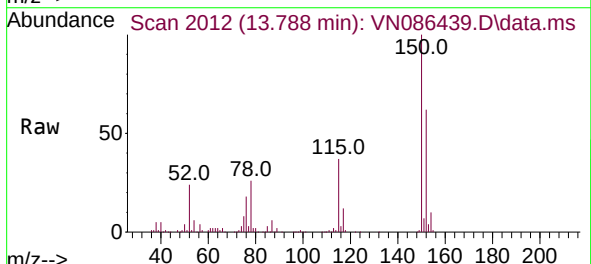
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#09

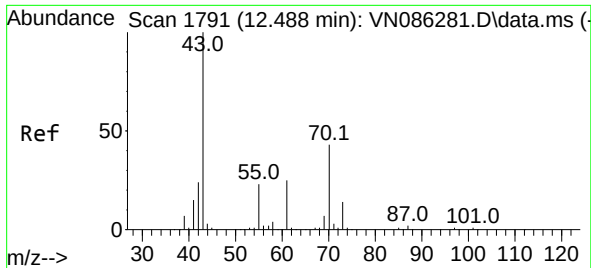
Tgt Ion:173 Resp: 920
Ion Ratio Lower Upper
173 100
175 693.7 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion:152 Resp: 129664
Ion Ratio Lower Upper
152 100
115 61.7 31.9 95.9
150 159.0 0.0 352.0

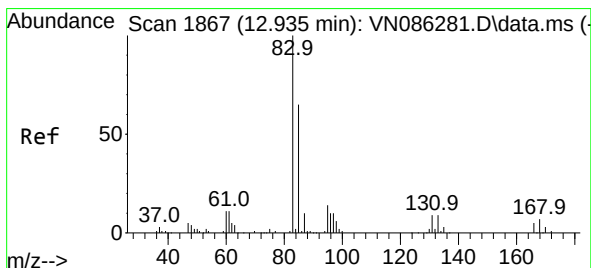
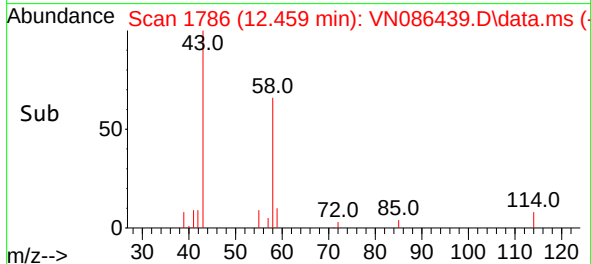
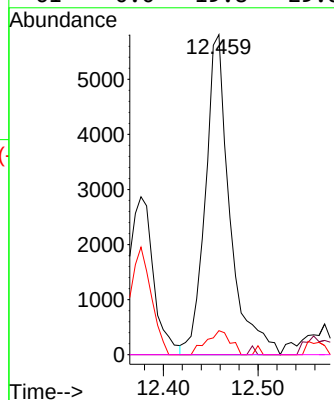
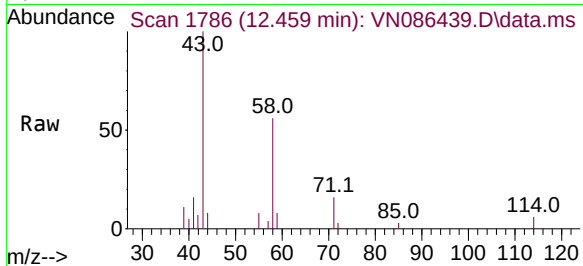




#74
N-amy1 acetate
Concen: 1.976 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

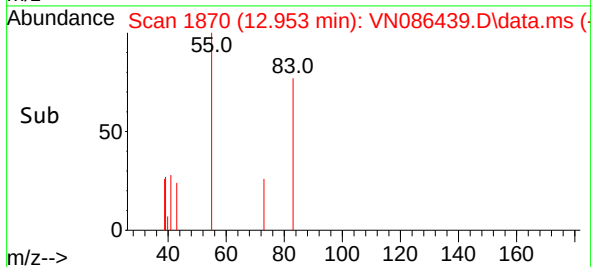
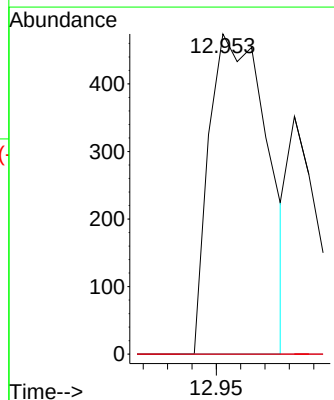
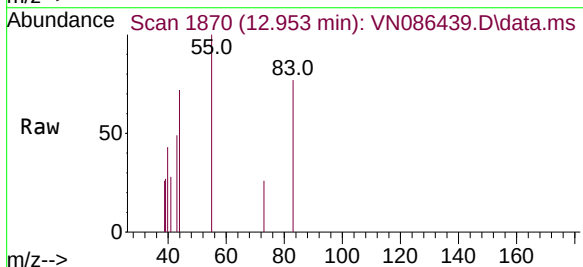
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#09

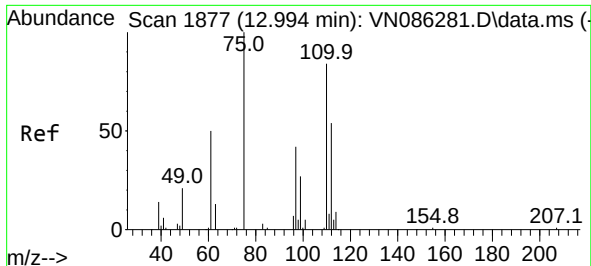
Tgt Ion:	43	Resp:	10436
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.0	52.4#
55	7.4	19.0	28.4#
61	0.0	19.8	29.8#



#75
1,1,2,2-Tetrachloroethane
Concen: 0.258 ug/l
RT: 12.953 min Scan# 1870
Delta R.T. 0.018 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion:	83	Resp:	787
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.7	14.1#
85	0.0	32.7	98.1#

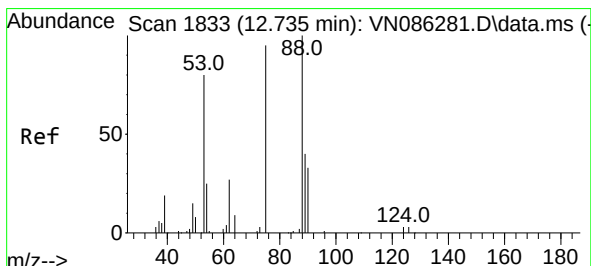
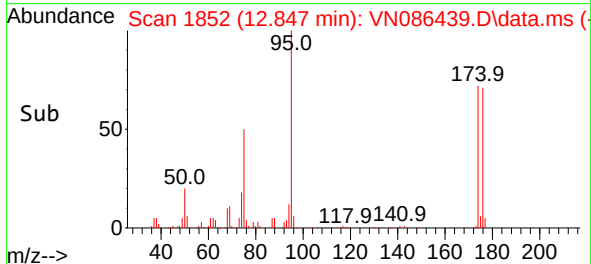
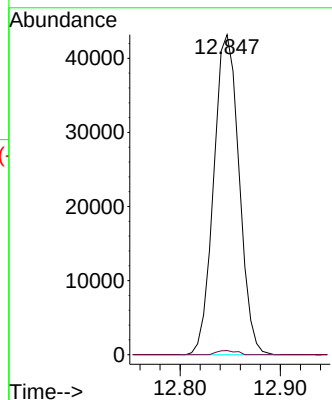
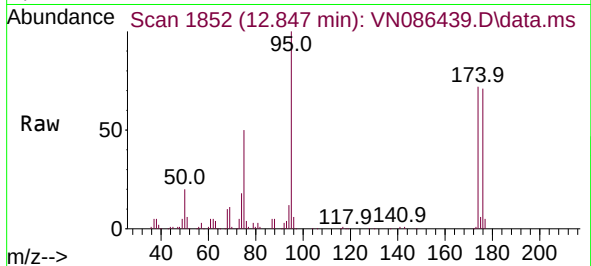




#76
1,2,3-Trichloropropane
Concen: 24.797 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#09

Tgt Ion: 75 Resp: 75877
Ion Ratio Lower Upper
75 100
77 1.0 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.554 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086439.D
Acq: 30 Apr 2025 16:16

Tgt Ion: 75 Resp: 75877
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

