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 Data File : VN086445.D
 Acq On : 30 Apr 2025 18:42
 Operator : JC\MD
 Sample : PB167775ZHE#15
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

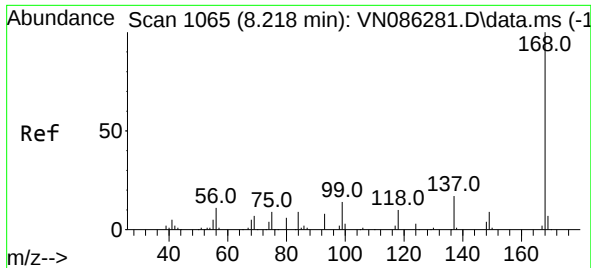
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#15

Quant Time: May 01 01:36:50 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	149440	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	288790	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	281660	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	116588	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	110189	50.848	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.700%			
35) Dibromofluoromethane	8.165	113	70428	52.546	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.100%			
50) Toluene-d8	10.565	98	373796	52.182	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.360%			
62) 4-Bromofluorobenzene	12.847	95	134686	51.550	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.100%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	578	0.224	ug/l #	88
11) Tert butyl alcohol	5.518	59	7939	20.079	ug/l #	91
16) Acetone	4.430	43	37165	44.923	ug/l	98
18) Methyl Acetate	5.036	43	3748	1.441	ug/l #	65
20) Methylene Chloride	5.271	84	10727	5.355	ug/l	88
25) 2-Butanone	7.483	43	38007	28.177	ug/l	99
29) Tetrahydrofuran	7.841	42	855	0.948	ug/l #	37
31) Cyclohexane	8.230	56	3269	0.931	ug/l #	10
36) 1,1-Dichloropropene	8.218	75	12308	4.598	ug/l #	50
37) Ethyl Acetate	7.483	43	38007	13.485	ug/l #	68
38) Carbon Tetrachloride	8.224	117	15517	6.086	ug/l #	15
41) Methacrylonitrile	7.836	41	333	0.204	ug/l #	23
43) Isopropyl Acetate	8.688	43	56555	9.496	ug/l #	75
45) 1,2-Dichloropropane	9.741	63	1007	0.480	ug/l #	43
48) Methyl methacrylate	9.653	41	5193	2.098	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	4520	1.566	ug/l	98
54) cis-1,3-Dichloropropene	10.353	75	32810	9.262	ug/l #	61
57) 1,3-Dichloropropane	11.200	76	3033	0.888	ug/l #	43
59) 2-Hexanone	11.200	43	83940	39.212	ug/l #	53
74) N-amyl acetate	12.453	43	10608	2.234	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.959	83	800	0.292	ug/l #	25
76) 1,2,3-Trichloropropane	12.847	75	69712	25.338	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69712	60.852	ug/l #	10

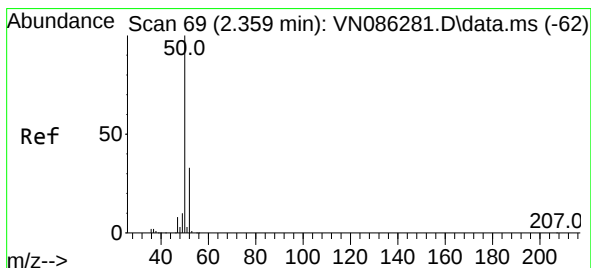
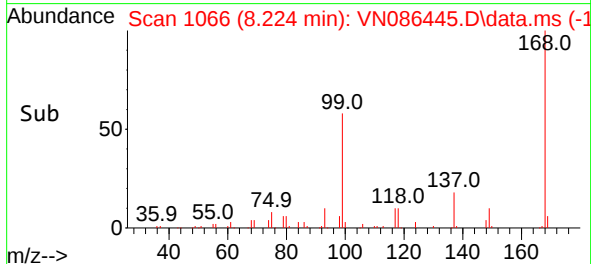
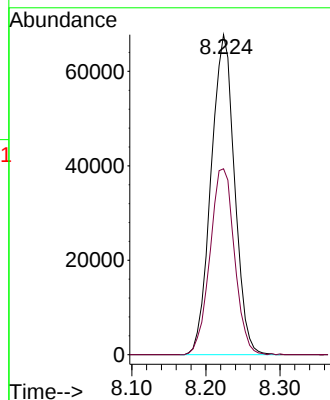
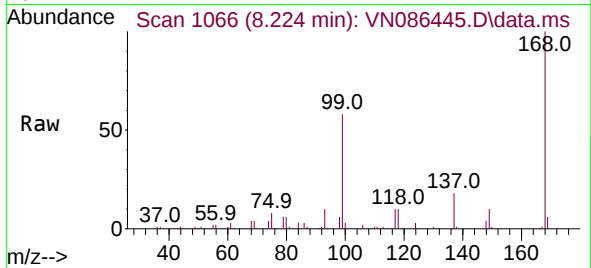
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

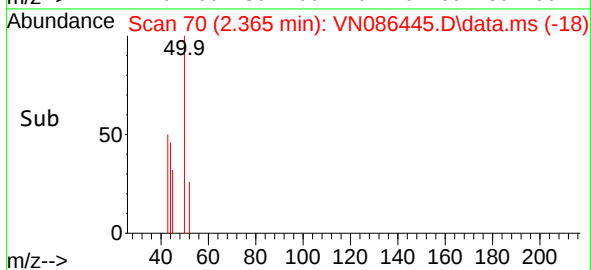
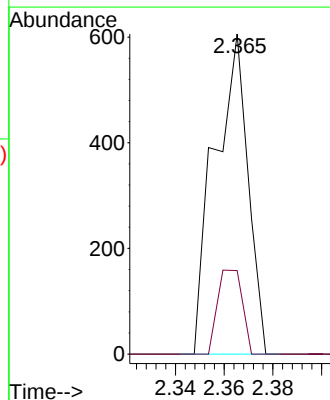
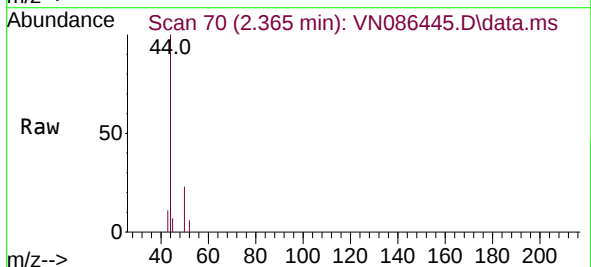
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#15

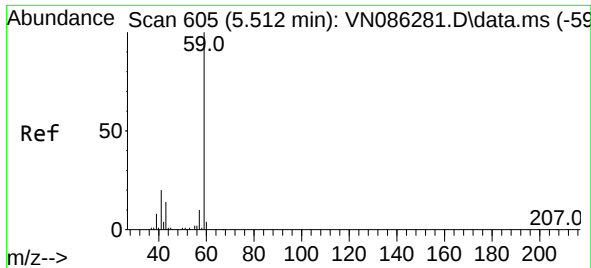
Tgt Ion:168 Resp: 149440
Ion Ratio Lower Upper
168 100
99 58.1 52.5 78.7



#3
Chloromethane
Concen: 0.224 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

Tgt Ion: 50 Resp: 578
Ion Ratio Lower Upper
50 100
52 26.1 26.5 39.7#

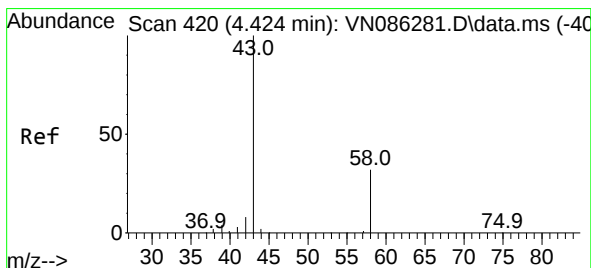
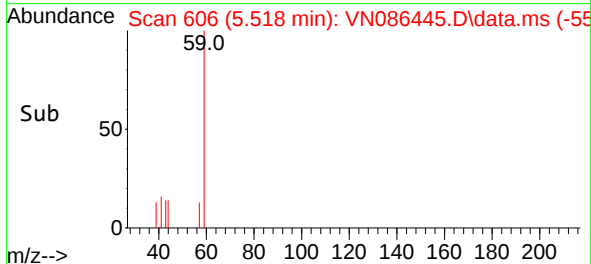
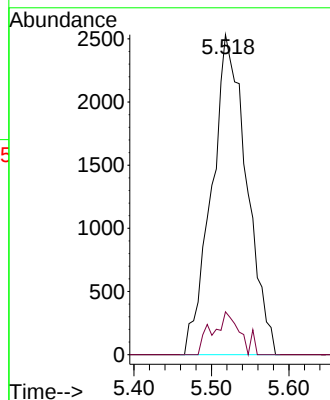
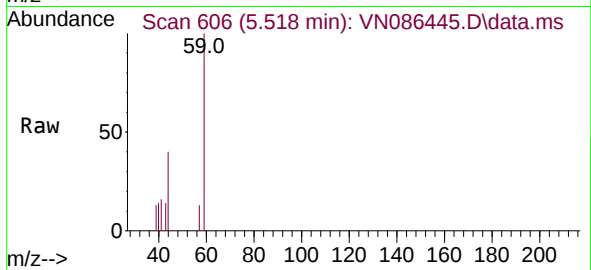




#11
Tert butyl alcohol
Concen: 20.079 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

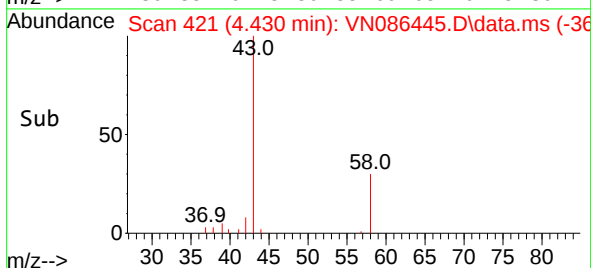
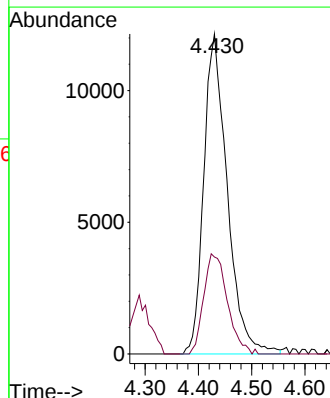
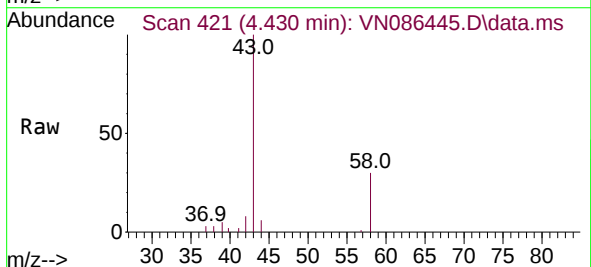
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#15

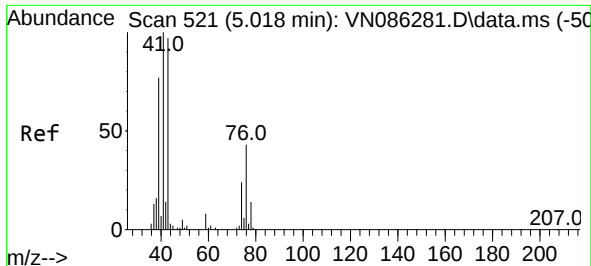
Tgt Ion: 59 Resp: 7939
Ion Ratio Lower Upper
59 100
57 7.2 8.3 12.5#



#16
Acetone
Concen: 44.923 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

Tgt Ion: 43 Resp: 37165
Ion Ratio Lower Upper
43 100
58 30.3 25.3 37.9

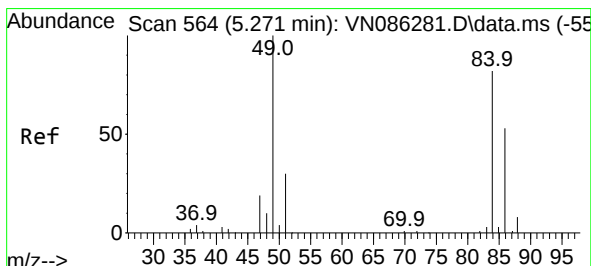
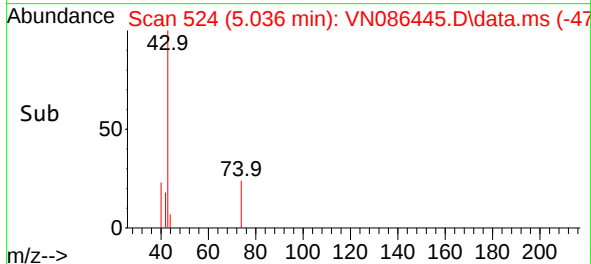
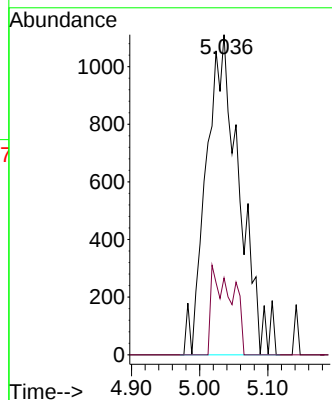
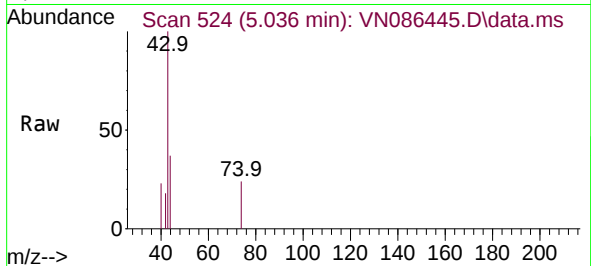




#18
Methyl Acetate
Concen: 1.441 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

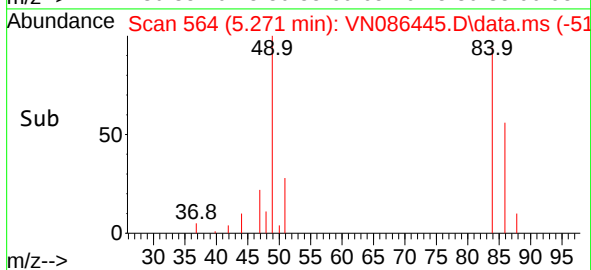
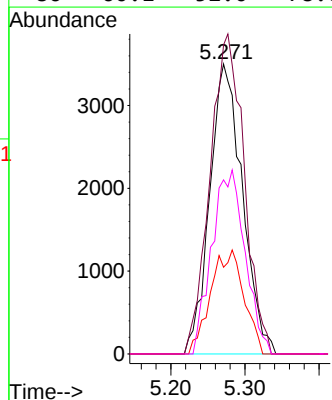
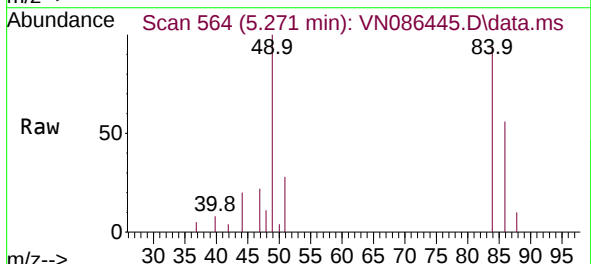
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MSVOA_N
ClientSampleId :
PB167775ZHE#15

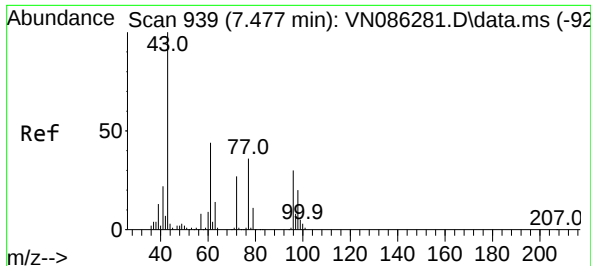
Tgt Ion: 43 Resp: 3748
Ion Ratio Lower Upper
43 100
74 7.1 19.8 29.6#



#20
Methylene Chloride
Concen: 5.355 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

Tgt Ion: 84 Resp: 10727
Ion Ratio Lower Upper
84 100
49 106.6 98.2 147.2
51 29.9 29.8 44.6
86 60.1 52.0 78.0

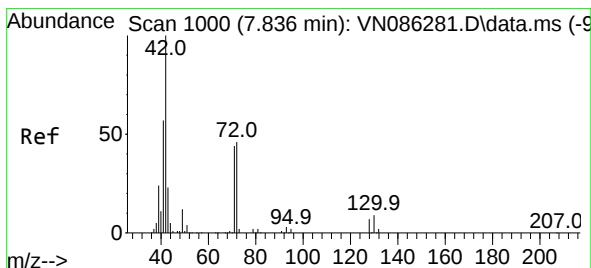
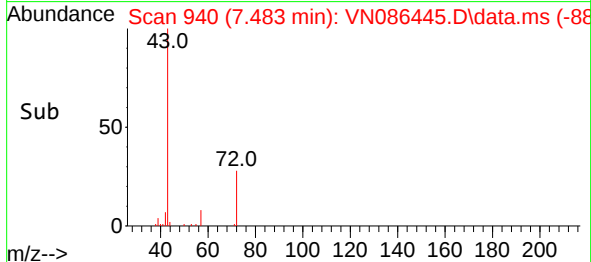
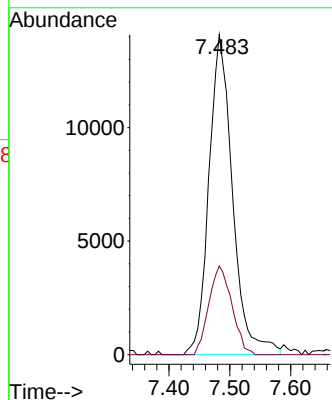
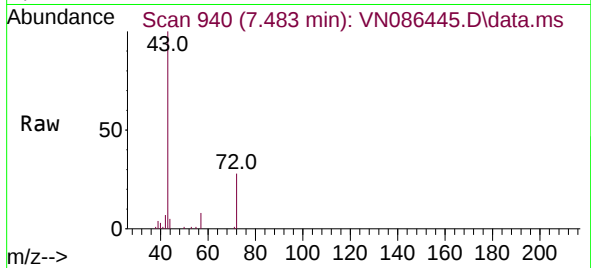




#25
2-Butanone
Concen: 28.177 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

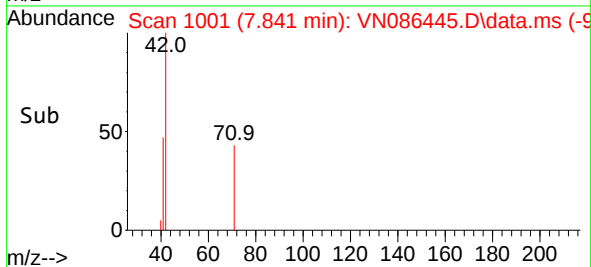
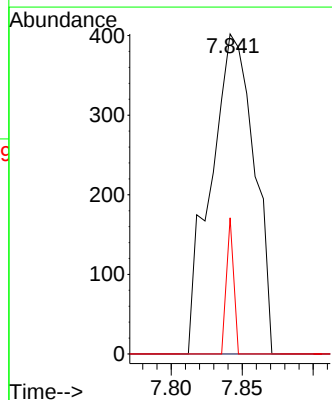
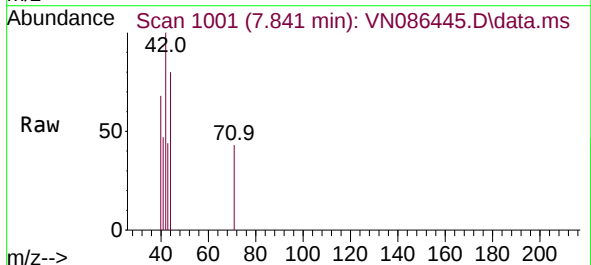
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#15

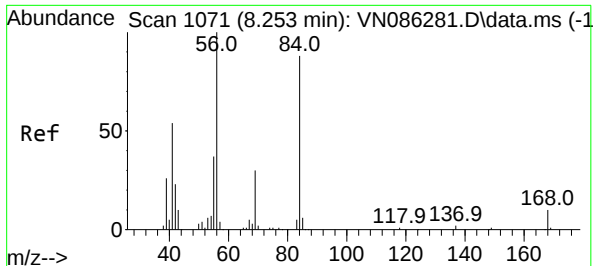
Tgt Ion: 43 Resp: 38007
Ion Ratio Lower Upper
43 100
72 27.7 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.948 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

Tgt Ion: 42 Resp: 855
Ion Ratio Lower Upper
42 100
72 0.0 36.2 54.4#
71 7.0 34.0 51.0#

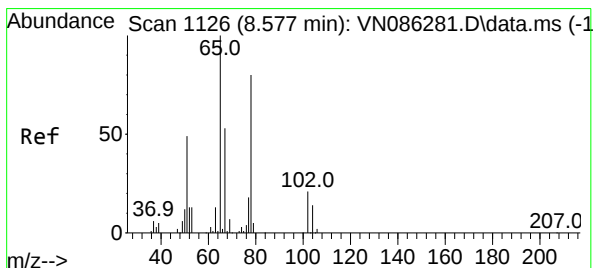
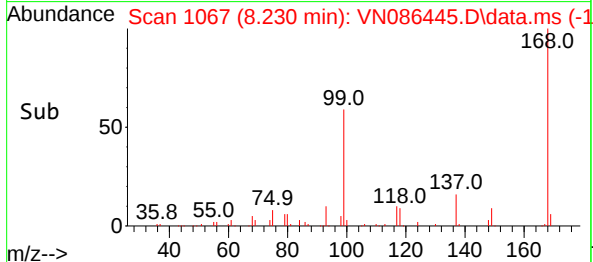
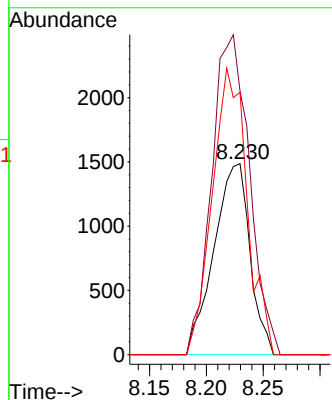
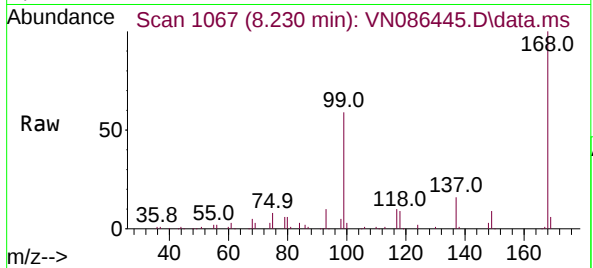




#31
Cyclohexane
Concen: 0.931 ug/l
RT: 8.230 min Scan# 1071
Delta R.T. -0.024 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

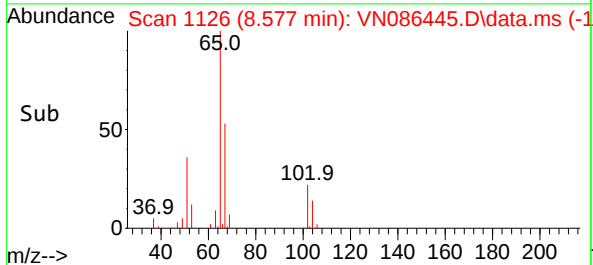
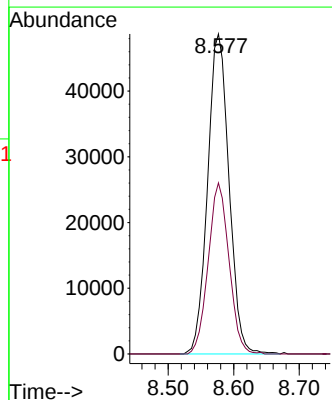
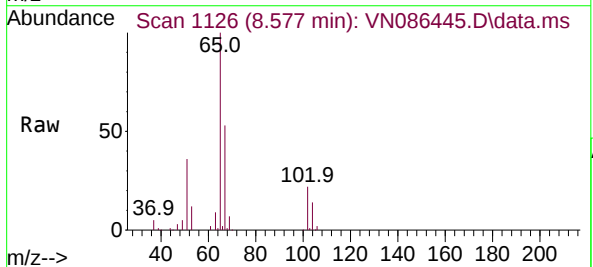
Instrument :
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ClientSampleId :
PB167775ZHE#15

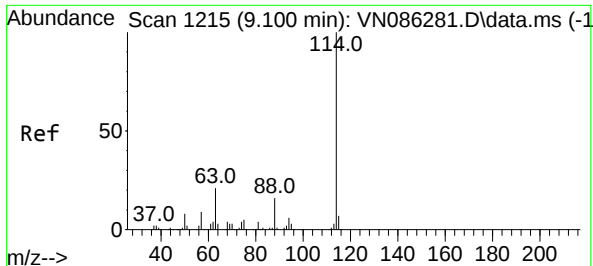
Tgt Ion: 56 Resp: 3269
Ion Ratio Lower Upper
56 100
69 137.9 24.2 36.2#
84 137.3 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 50.848 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

Tgt Ion: 65 Resp: 110189
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086445.D

Acq: 30 Apr 2025 18:42

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#15

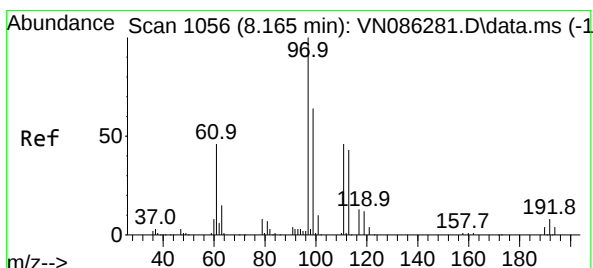
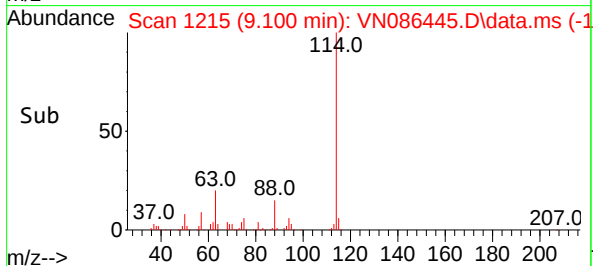
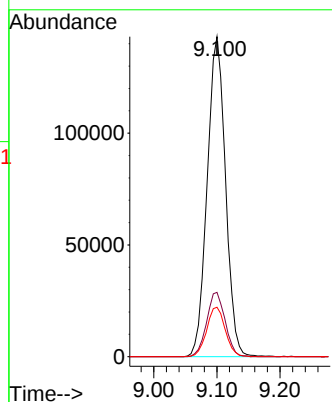
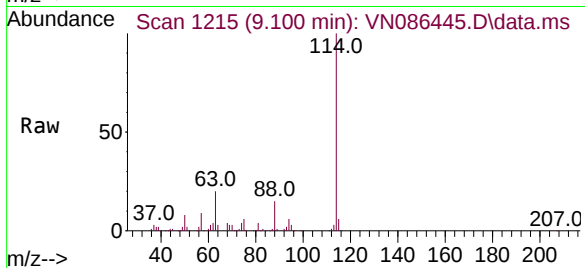
Tgt Ion:114 Resp: 288790

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

88 15.5 0.0 31.8



#35

Dibromofluoromethane

Concen: 52.546 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086445.D

Acq: 30 Apr 2025 18:42

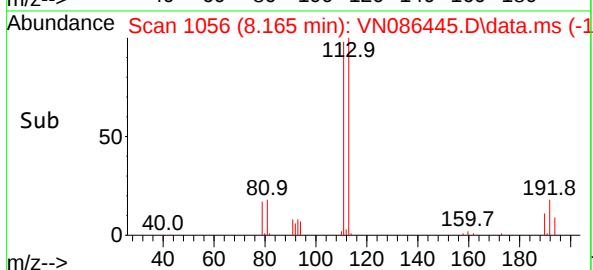
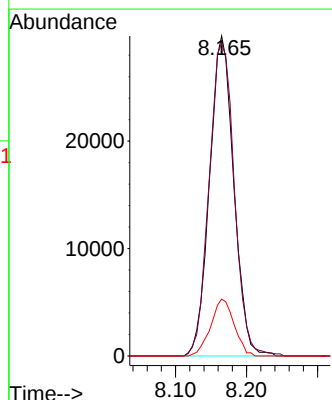
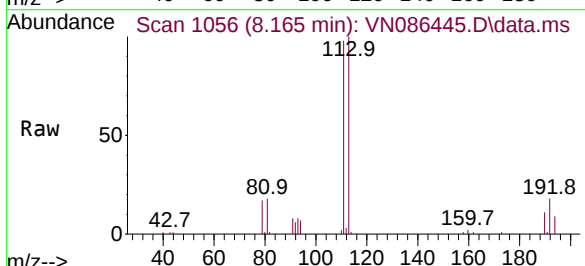
Tgt Ion:113 Resp: 70428

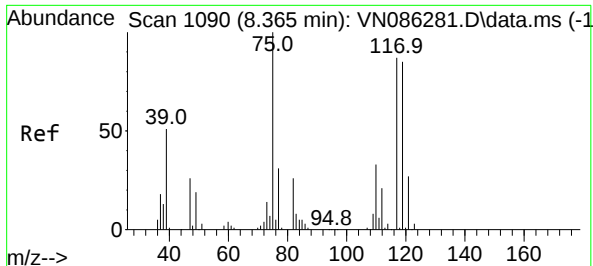
Ion Ratio Lower Upper

113 100

111 101.7 83.4 125.0

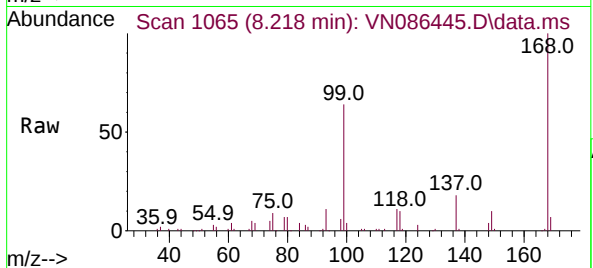
192 17.2 13.7 20.5



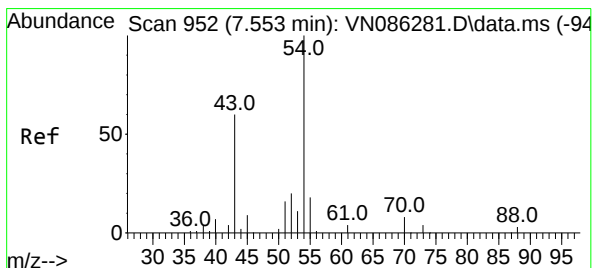
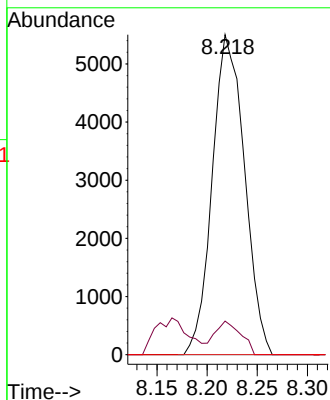
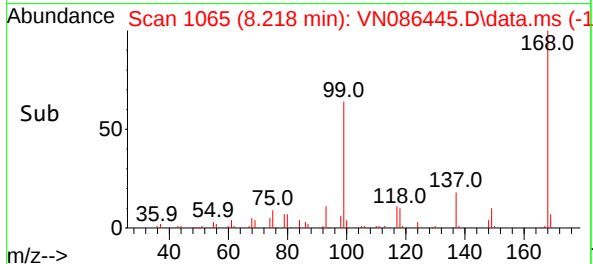


#36
1,1-Dichloropropene
Concen: 4.598 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#15

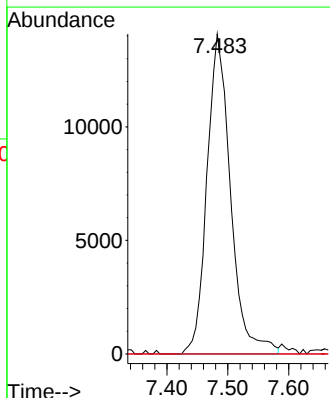
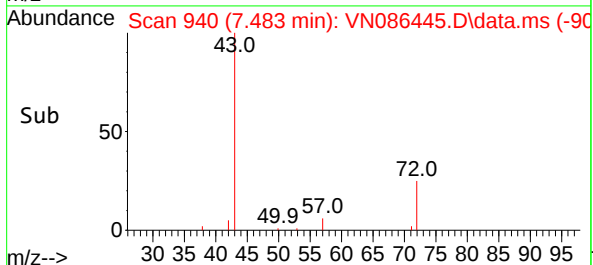
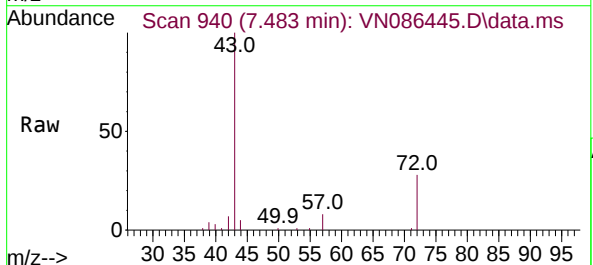


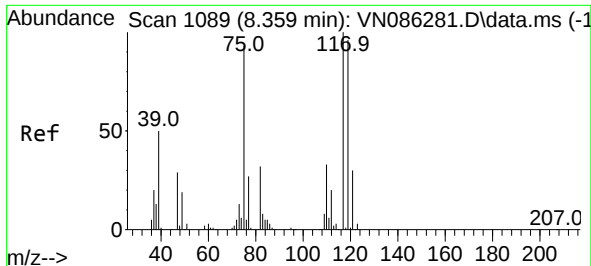
Tgt Ion: 75 Resp: 12308
Ion Ratio Lower Upper
75 100
110 8.8 16.8 50.4#
77 0.0 24.9 37.3#



#37
Ethyl Acetate
Concen: 13.485 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.071 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

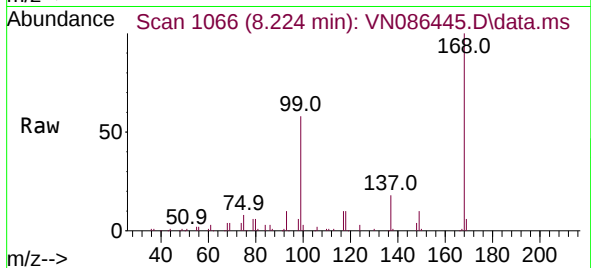
Tgt Ion: 43 Resp: 38007
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 9.2 13.8#



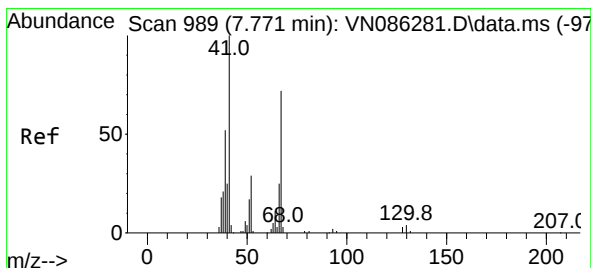
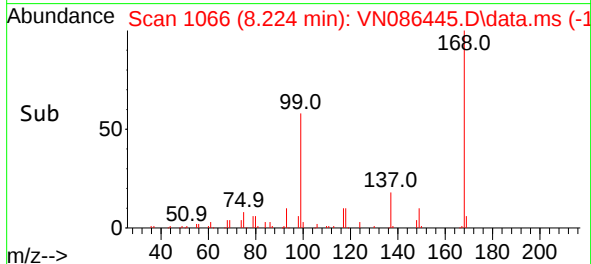
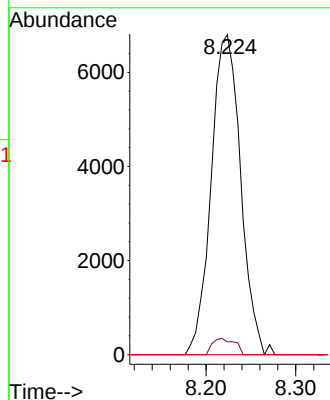


#38
Carbon Tetrachloride
Concen: 6.086 ug/l
RT: 8.224 min Scan# 1000
Delta R.T. -0.135 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#15

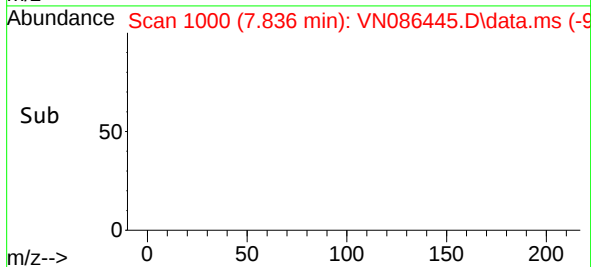
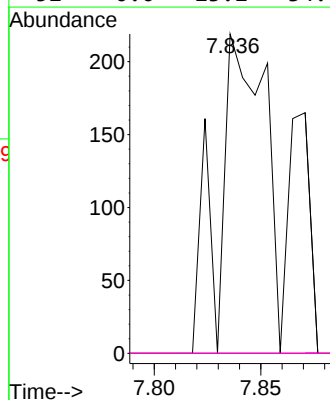
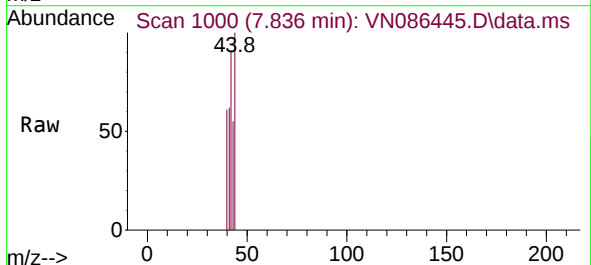


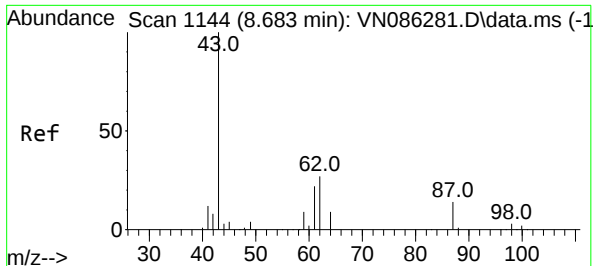
Tgt Ion: 117 Resp: 15517
Ion Ratio Lower Upper
117 100
119 4.0 76.8 115.2#
121 0.0 23.8 35.8#



#41
Methacrylonitrile
Concen: 0.204 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.065 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

Tgt Ion: 41 Resp: 333
Ion Ratio Lower Upper
41 100
39 0.0 43.0 64.4#
67 0.0 58.8 88.2#
52 0.0 23.2 34.8#

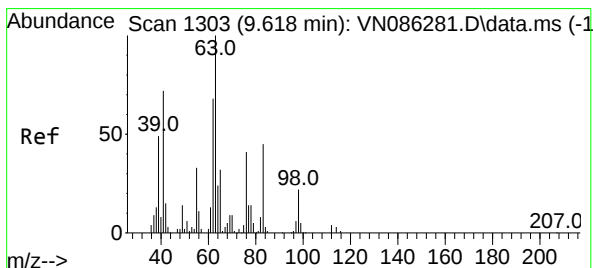
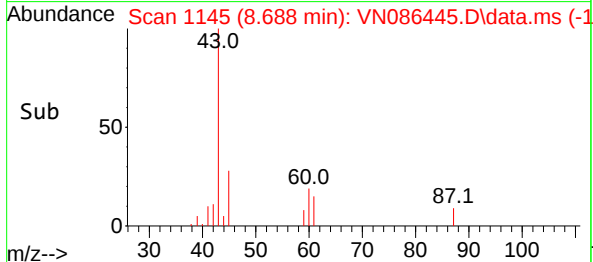
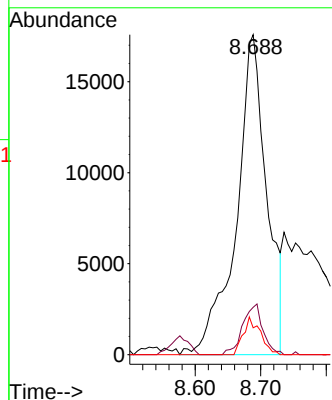
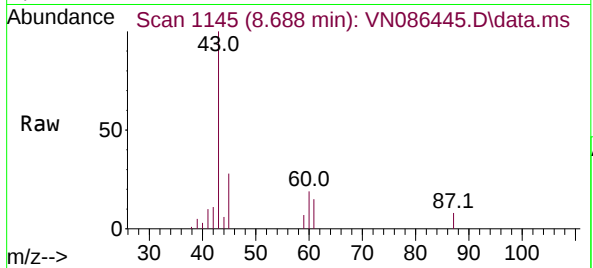




#43
Isopropyl Acetate
Concen: 9.496 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

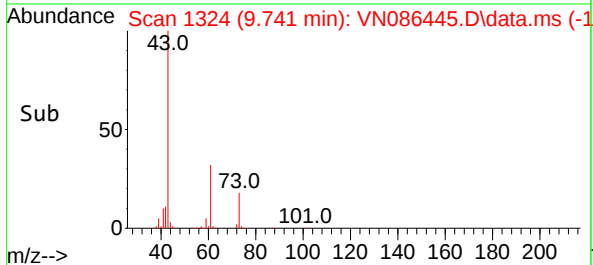
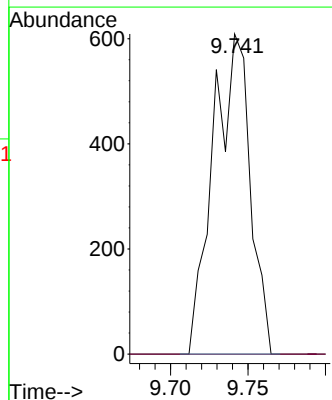
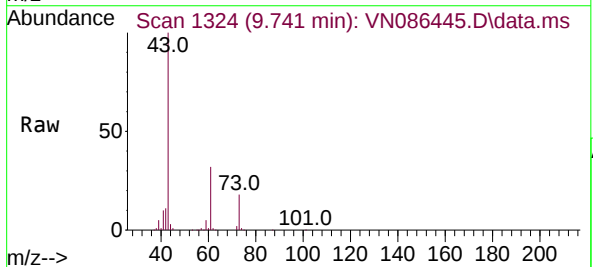
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#15

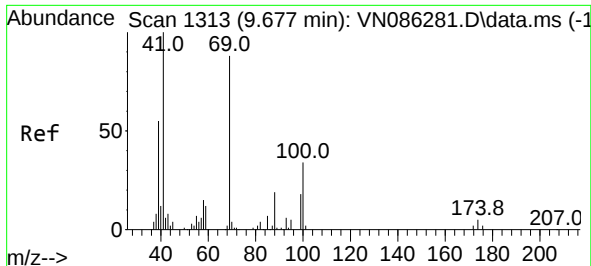
Tgt Ion: 43 Resp: 56555
Ion Ratio Lower Upper
43 100
61 10.5 20.5 30.7#
87 6.6 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.480 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.124 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

Tgt Ion: 63 Resp: 1007
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#





#48

Methyl methacrylate

Concen: 2.098 ug/l

RT: 9.653 min Scan# 1

Delta R.T. -0.024 min

Lab File: VN086445.D

Acq: 30 Apr 2025 18:42

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#15

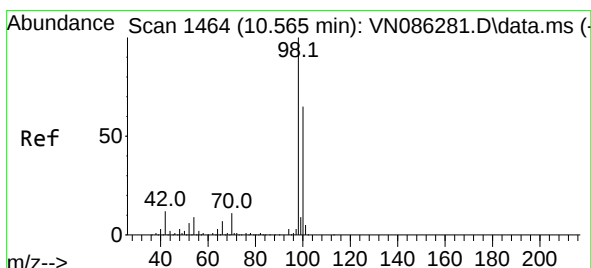
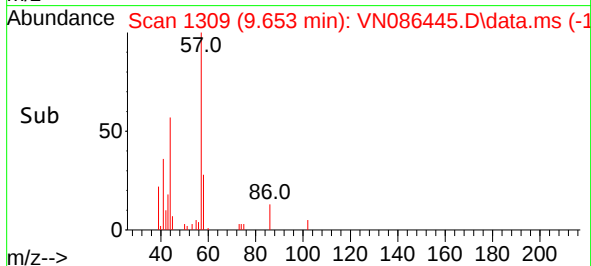
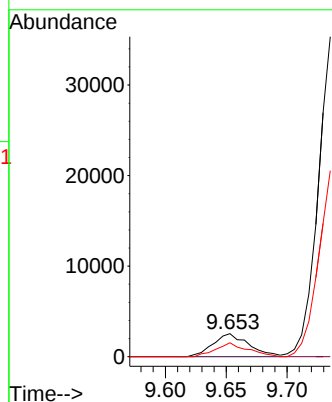
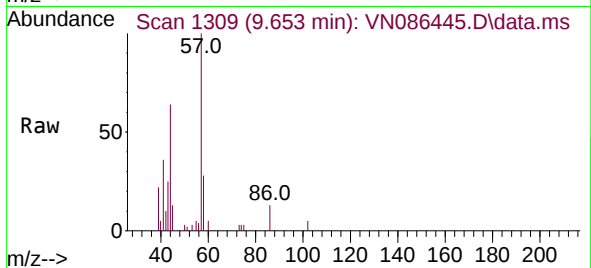
Tgt Ion: 41 Resp: 5193

Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 53.7 45.2 67.8



#50

Toluene-d8

Concen: 52.182 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086445.D

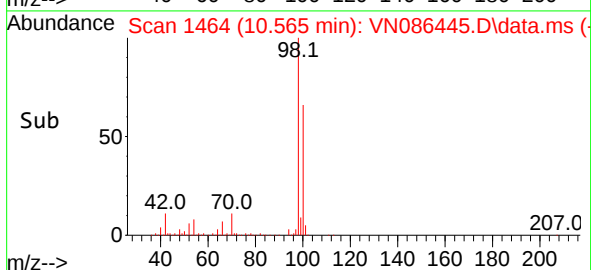
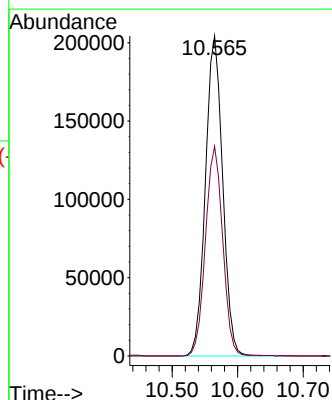
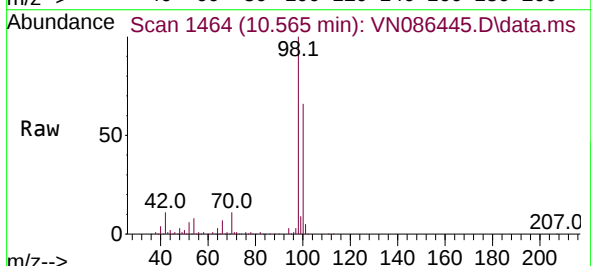
Acq: 30 Apr 2025 18:42

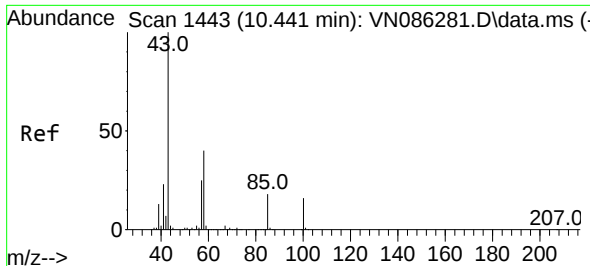
Tgt Ion: 98 Resp: 373796

Ion Ratio Lower Upper

98 100

100 65.6 52.5 78.7

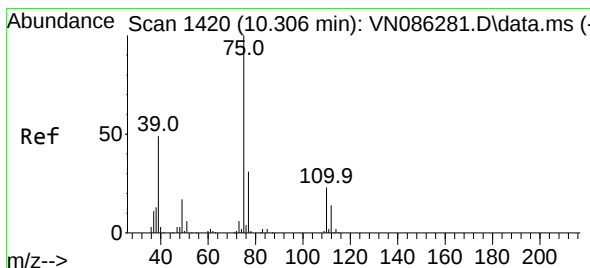
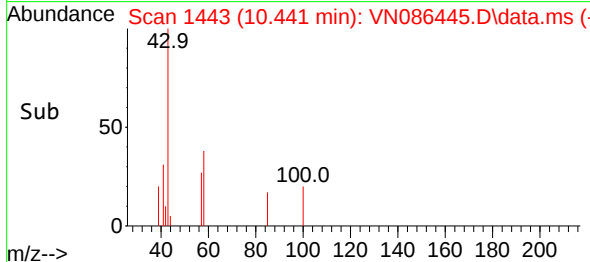
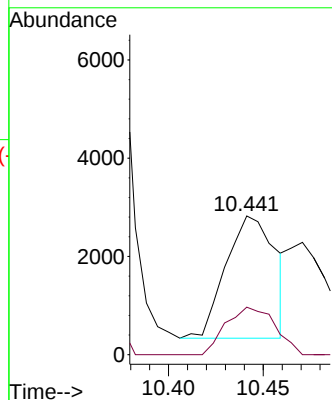
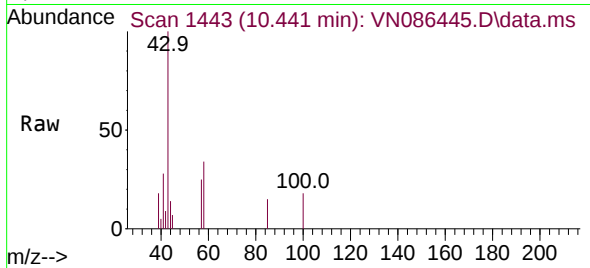




#51
4-Methyl-2-Pentanone
Concen: 1.566 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

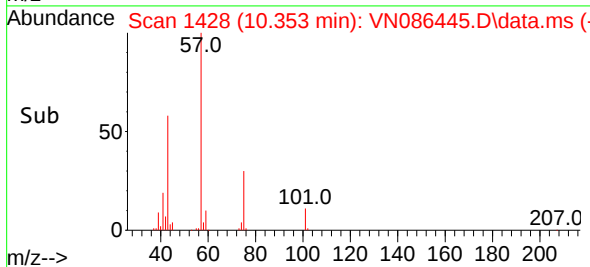
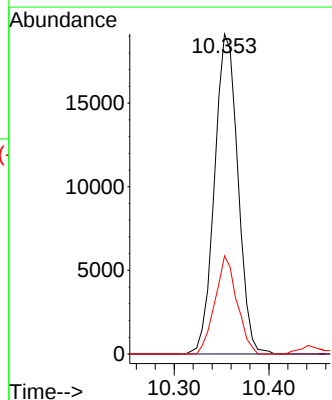
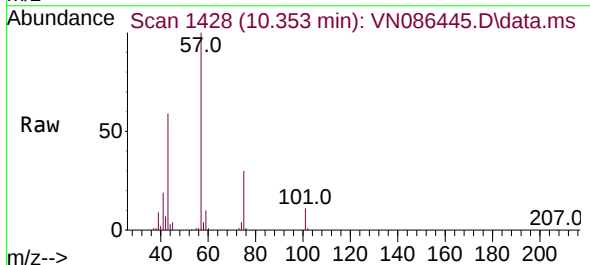
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#15

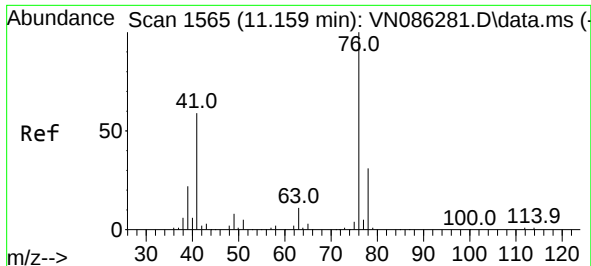
Tgt Ion: 43 Resp: 4520
Ion Ratio Lower Upper
43 100
58 38.8 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 9.262 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

Tgt Ion: 75 Resp: 32810
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 30.7 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.888 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086445.D

Acq: 30 Apr 2025 18:42

Instrument :

MSVOA_N

ClientSampleId :

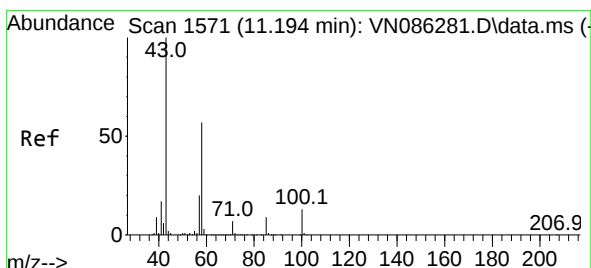
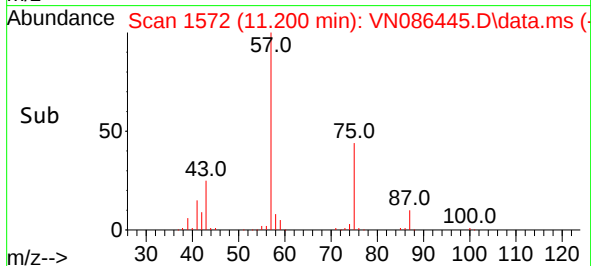
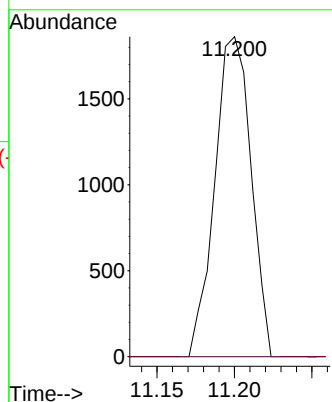
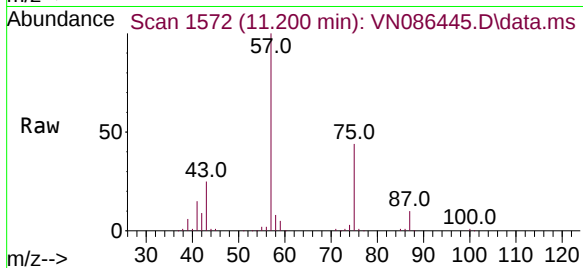
PB167775ZHE#15

Tgt Ion: 76 Resp: 3033

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 39.212 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086445.D

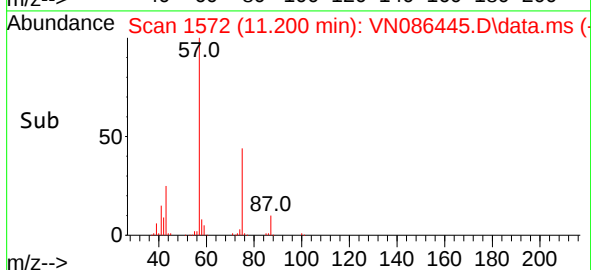
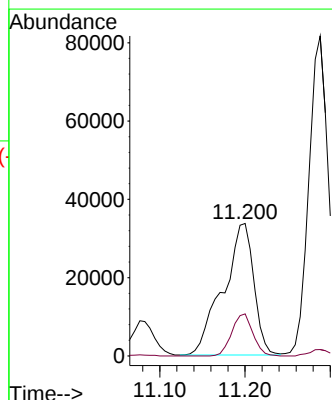
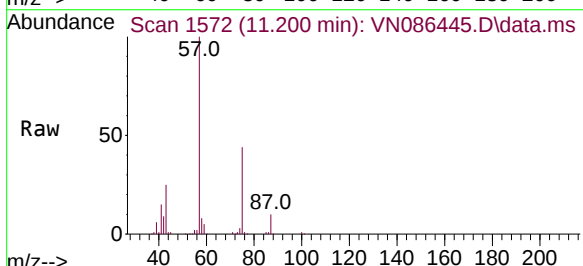
Acq: 30 Apr 2025 18:42

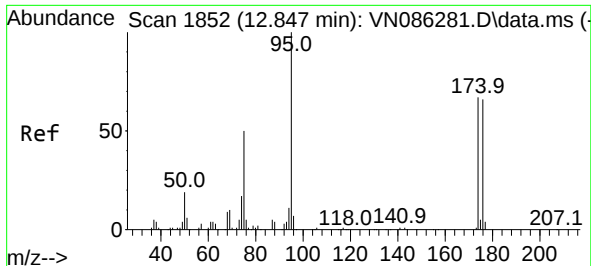
Tgt Ion: 43 Resp: 83940

Ion Ratio Lower Upper

43 100

58 22.1 28.3 85.0#

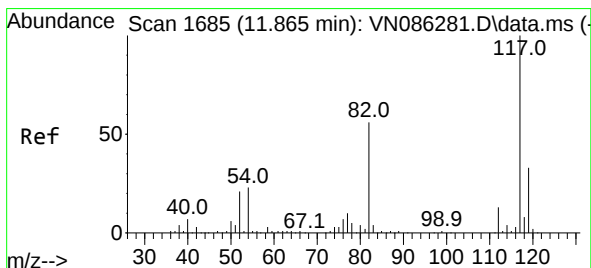
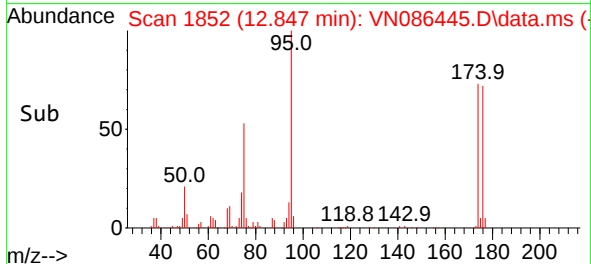
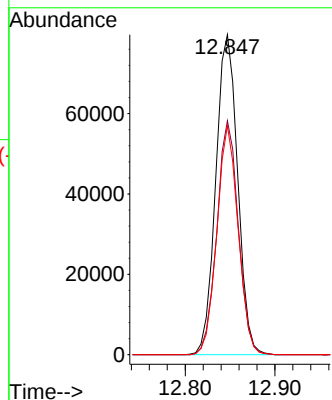
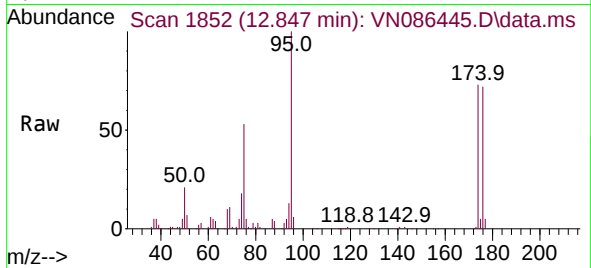




#62
4-Bromofluorobenzene
Concen: 51.550 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

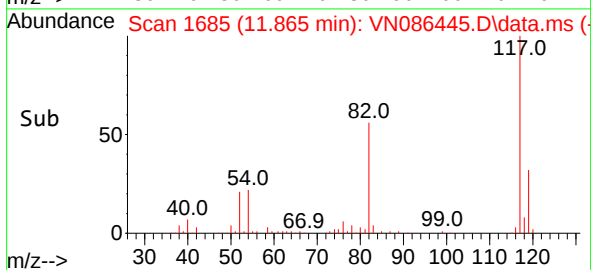
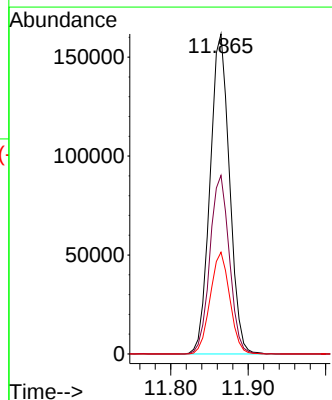
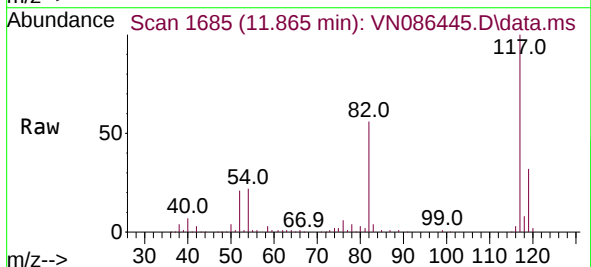
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#15

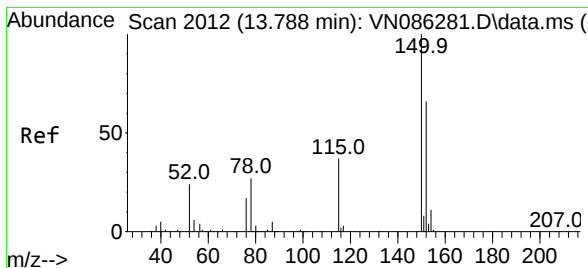
Tgt Ion: 95 Resp: 134686
Ion Ratio Lower Upper
95 100
174 71.7 0.0 133.4
176 69.3 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

Tgt Ion: 117 Resp: 281660
Ion Ratio Lower Upper
117 100
82 55.8 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# 20

Delta R.T. 0.000 min

Lab File: VN086445.D

Acq: 30 Apr 2025 18:42

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#15

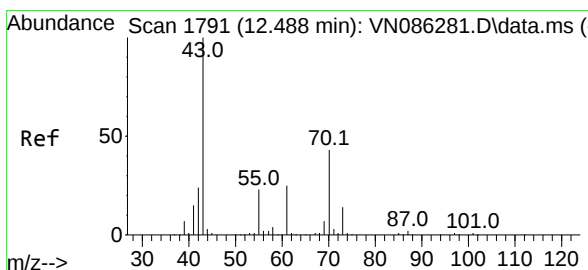
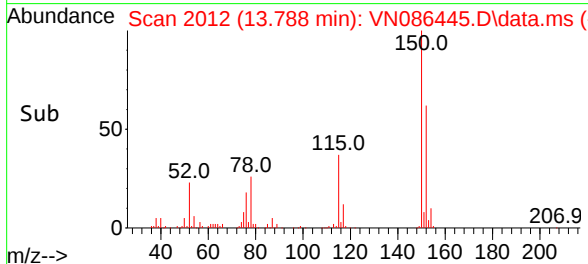
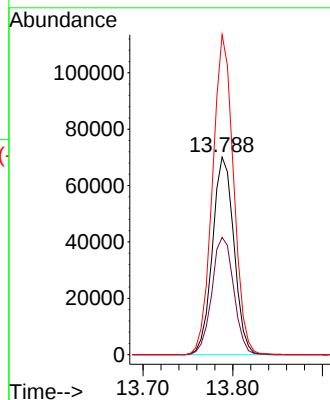
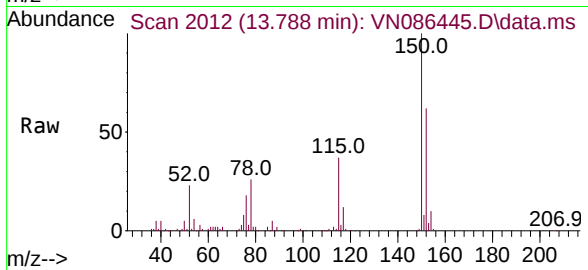
Tgt Ion:152 Resp: 116588

Ion Ratio Lower Upper

152 100

115 60.7 31.9 95.9

150 158.6 0.0 352.0



#74

N-ethyl acetate

Concen: 2.234 ug/l

RT: 12.453 min Scan# 1785

Delta R.T. -0.035 min

Lab File: VN086445.D

Acq: 30 Apr 2025 18:42

Tgt Ion: 43 Resp: 10608

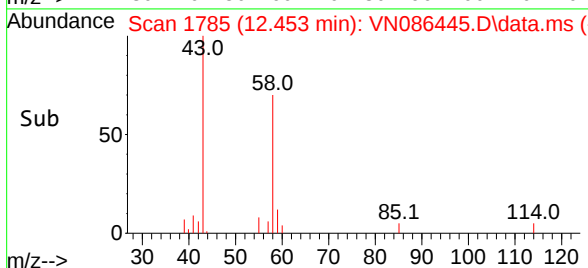
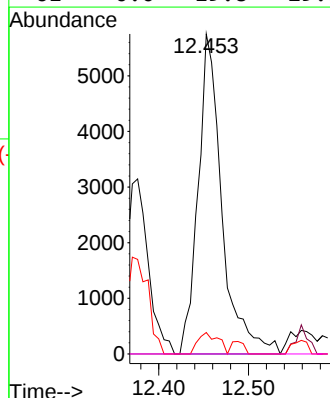
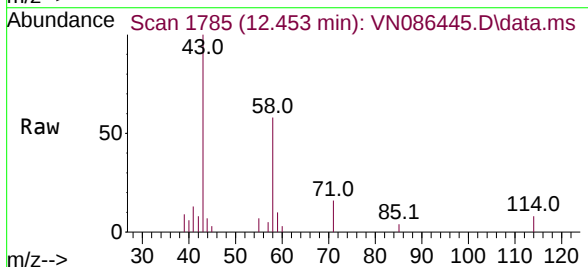
Ion Ratio Lower Upper

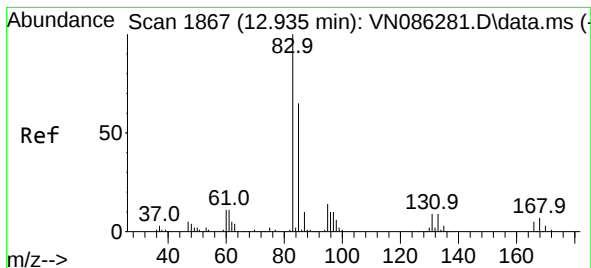
43 100

70 0.0 35.0 52.4#

55 5.6 19.0 28.4#

61 0.0 19.8 29.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 0.292 ug/l

RT: 12.959 min Scan# 1867

Delta R.T. 0.024 min

Lab File: VN086445.D

Acq: 30 Apr 2025 18:42

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#15

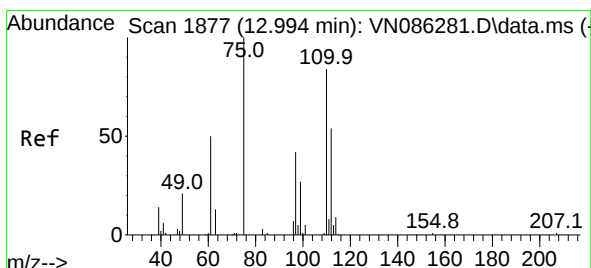
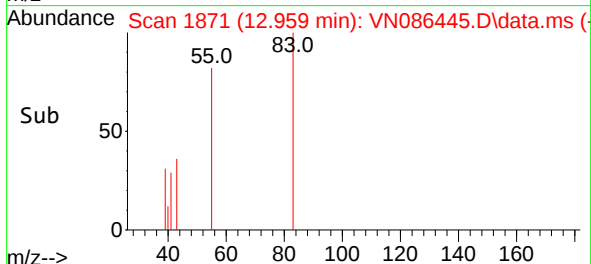
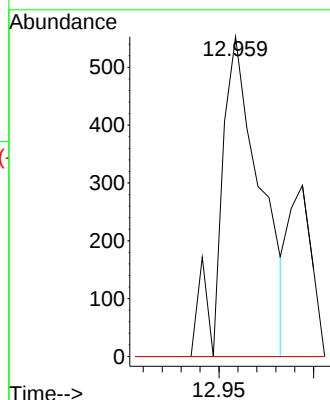
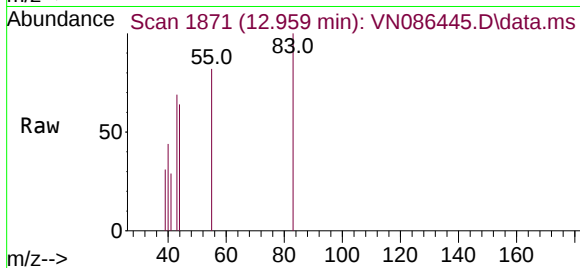
Tgt Ion: 83 Resp: 800

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: 25.338 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN086445.D

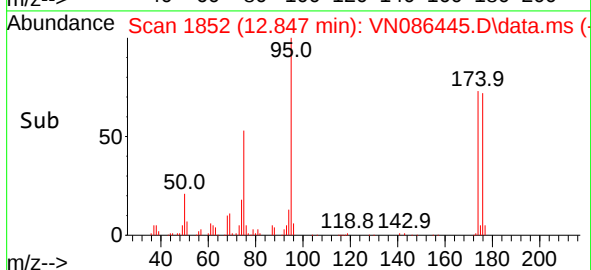
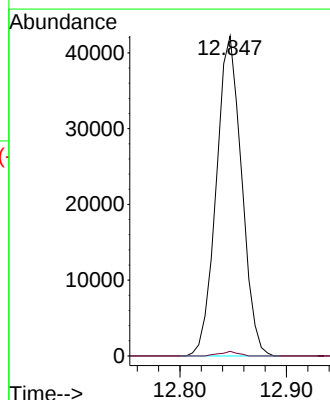
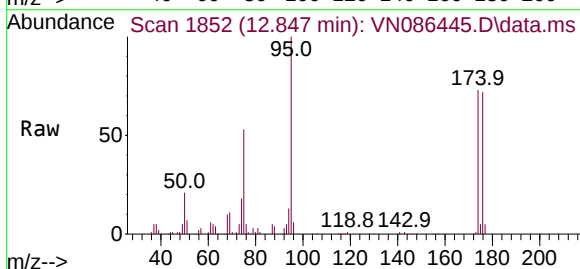
Acq: 30 Apr 2025 18:42

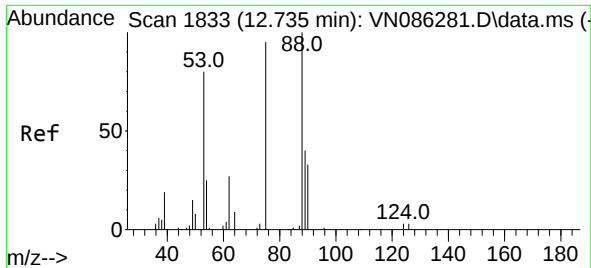
Tgt Ion: 75 Resp: 69712

Ion Ratio Lower Upper

75 100

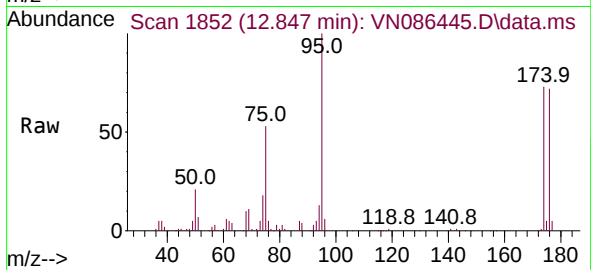
77 1.0 98.8 296.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 60.852 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086445.D
Acq: 30 Apr 2025 18:42

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#15



Tgt Ion: 75 Resp: 69712
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

