

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN043025\
 Data File : VN086446.D
 Acq On : 30 Apr 2025 19:06
 Operator : JC\MD
 Sample : PB167775ZHE#16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#16

Quant Time: May 01 01:37:02 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

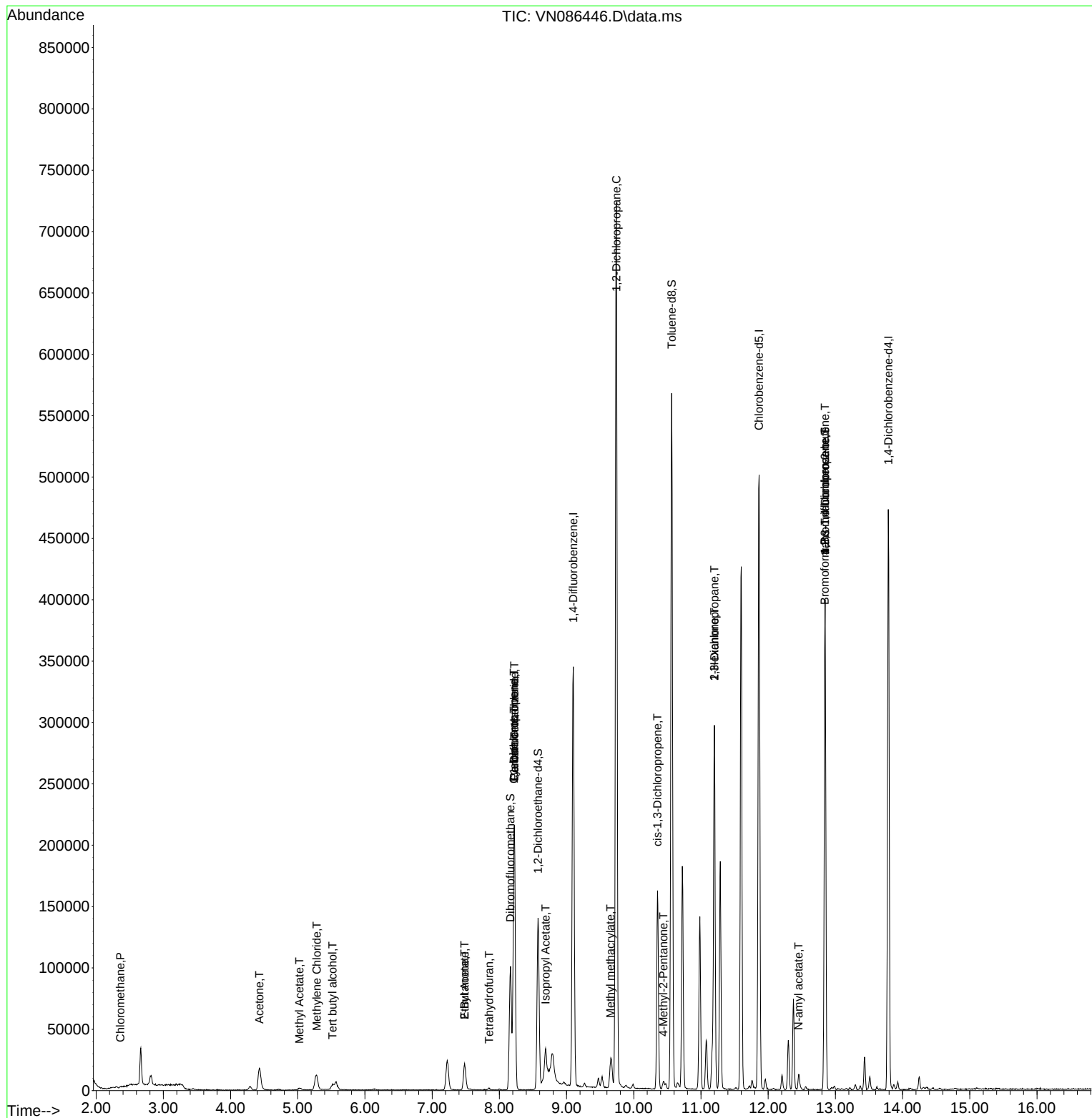
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	159908	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	305903	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	292538	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128597	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	114309	49.296	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.600%
35) Dibromofluoromethane	8.165	113	73133	51.512	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.020%
50) Toluene-d8	10.565	98	392662	51.749	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.500%
62) 4-Bromofluorobenzene	12.847	95	140651	50.821	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.640%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	722	0.262	ug/l #	61
11) Tert butyl alcohol	5.518	59	7970	18.838	ug/l	95
16) Acetone	4.430	43	34967	38.794	ug/l	97
18) Methyl Acetate	5.024	43	3551	1.276	ug/l	92
20) Methylene Chloride	5.283	84	10062	4.694	ug/l	95
25) 2-Butanone	7.483	43	34578	23.957	ug/l	96
29) Tetrahydrofuran	7.847	42	1064	1.102	ug/l #	45
31) Cyclohexane	8.218	56	3561	0.948	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	13881	4.895	ug/l #	50
37) Ethyl Acetate	7.483	43	34578	11.582	ug/l #	68
38) Carbon Tetrachloride	8.224	117	16019	5.932	ug/l #	15
43) Isopropyl Acetate	8.688	43	49786	7.565	ug/l #	75
45) 1,2-Dichloropropane	9.741	63	768	0.345	ug/l #	43
48) Methyl methacrylate	9.653	41	4834	1.844	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	4290	1.403	ug/l	93
54) cis-1,3-Dichloropropene	10.353	75	30236	8.058	ug/l #	60
57) 1,3-Dichloropropane	11.200	76	2859	0.790	ug/l #	43
59) 2-Hexanone	11.200	43	76888	33.908	ug/l #	52
71) Bromoform	12.841	173	492	0.303	ug/l #	1
74) N-amyl acetate	12.453	43	8671	1.656	ug/l #	48
76) 1,2,3-Trichloropropane	12.847	75	71643	23.608	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	71643	56.698	ug/l #	10

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

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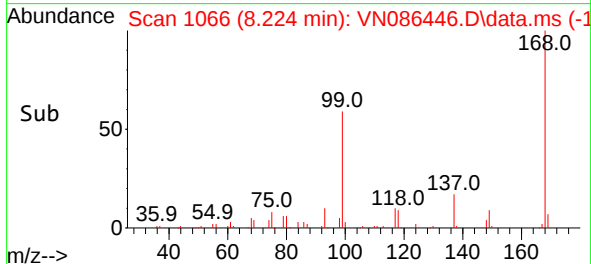
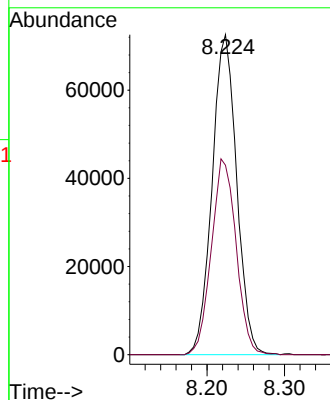
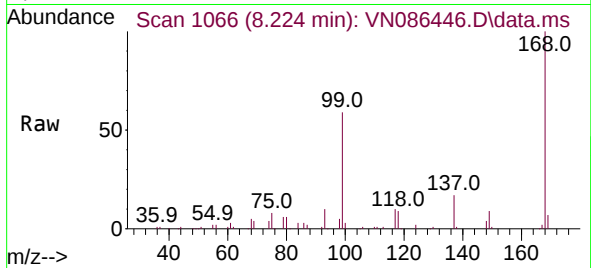




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

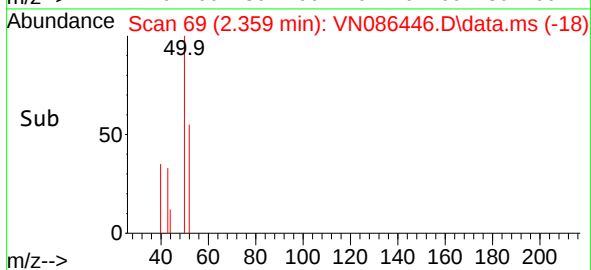
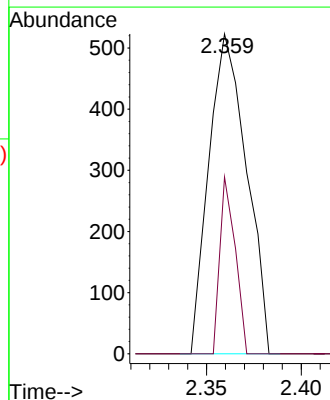
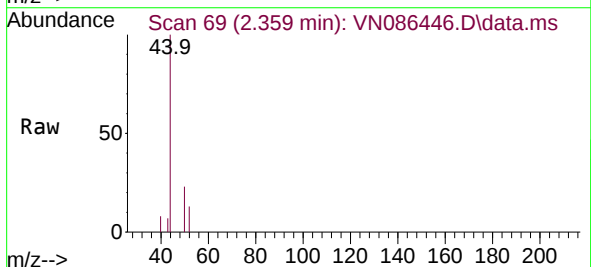
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#16

Tgt Ion:168 Resp: 159908
Ion Ratio Lower Upper
168 100
99 59.2 52.5 78.7



#3
Chloromethane
Concen: 0.262 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

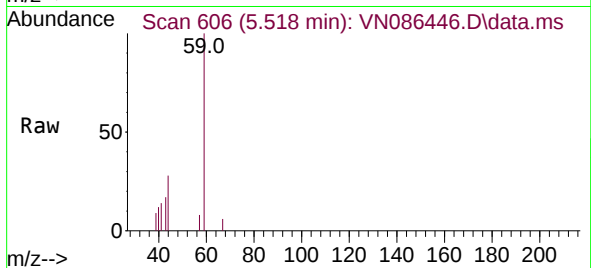
Tgt Ion: 50 Resp: 722
Ion Ratio Lower Upper
50 100
52 55.3 26.5 39.7#



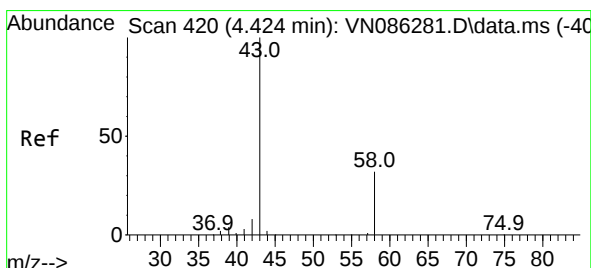
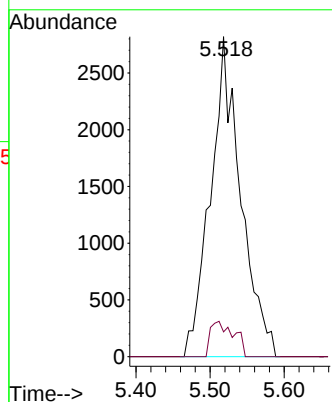
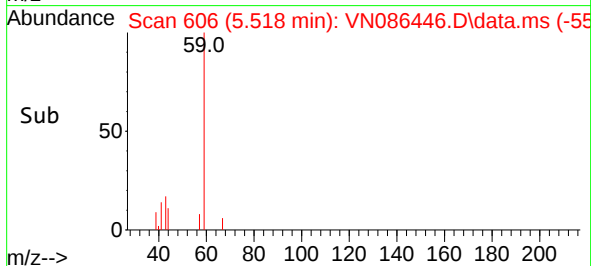


#11
Tert butyl alcohol
Concen: 18.838 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#16

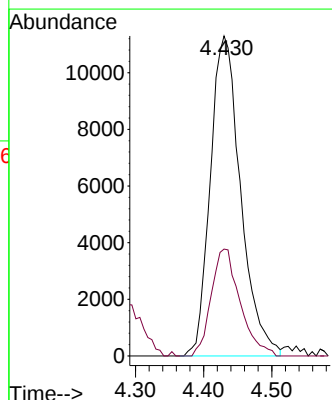
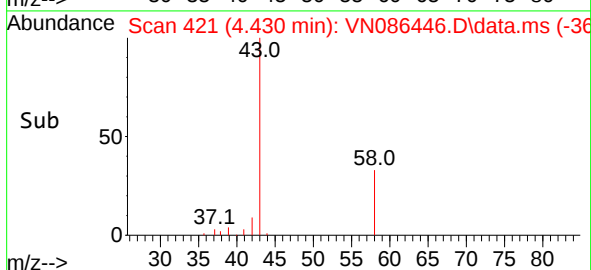
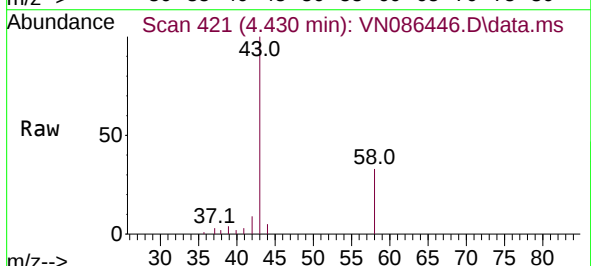


Tgt Ion: 59 Resp: 7970
Ion Ratio Lower Upper
59 100
57 8.6 8.3 12.5



#16
Acetone
Concen: 38.794 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

Tgt Ion: 43 Resp: 34967
Ion Ratio Lower Upper
43 100
58 33.4 25.3 37.9





#18

Methyl Acetate

Concen: 1.276 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN086446.D

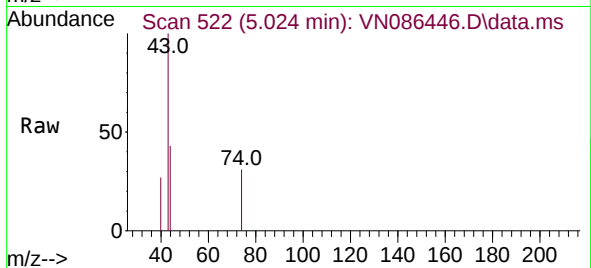
Acq: 30 Apr 2025 19:06

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#16

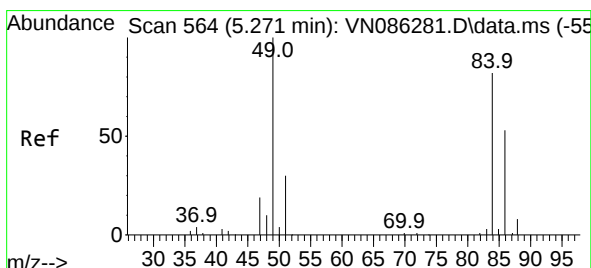
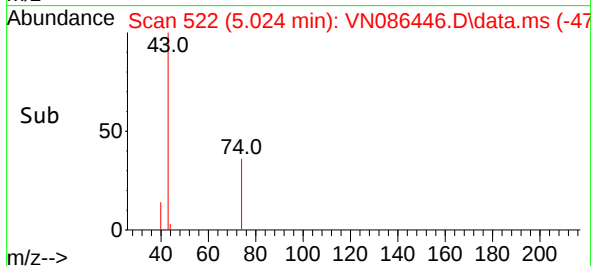
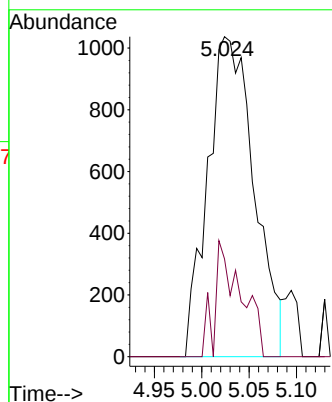


Tgt Ion: 43 Resp: 3551

Ion Ratio Lower Upper

43 100

74 20.6 19.8 29.6



#20

Methylene Chloride

Concen: 4.694 ug/l

RT: 5.283 min Scan# 566

Delta R.T. 0.012 min

Lab File: VN086446.D

Acq: 30 Apr 2025 19:06

Tgt Ion: 84 Resp: 10062

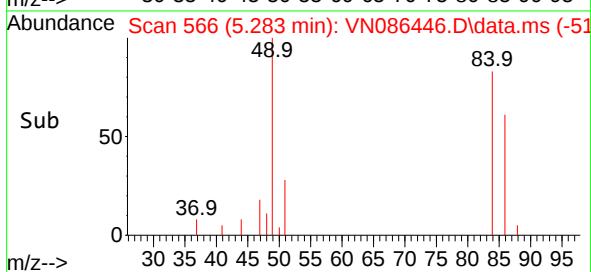
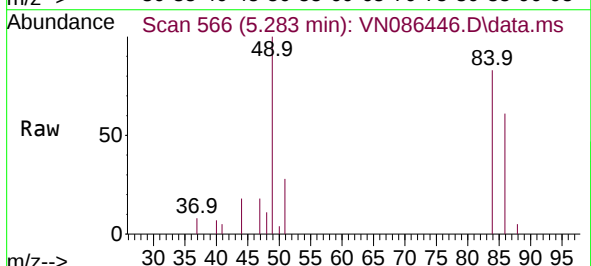
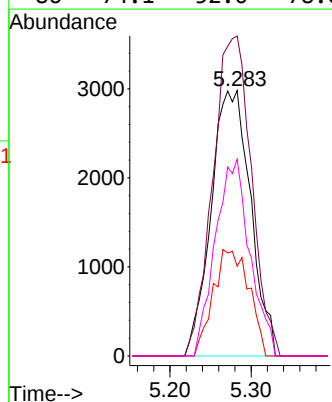
Ion Ratio Lower Upper

84 100

49 120.5 98.2 147.2

51 33.8 29.8 44.6

86 74.1 52.0 78.0

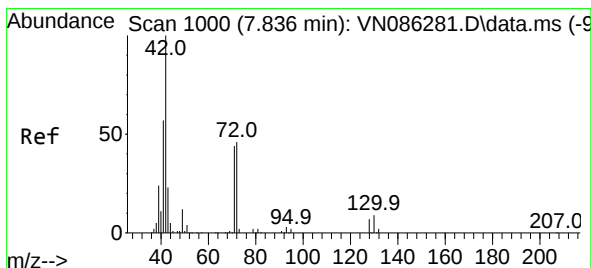
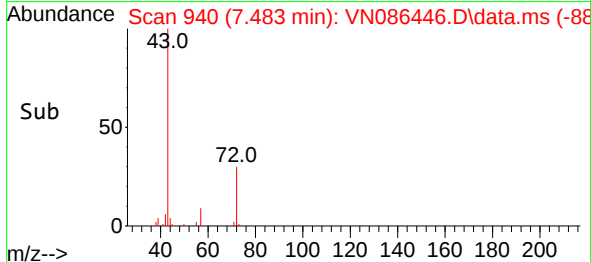
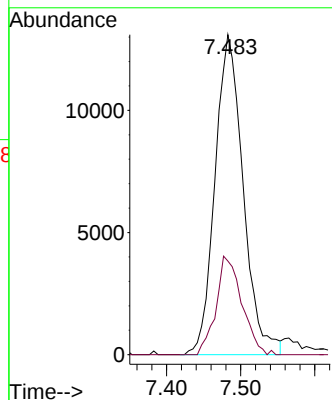
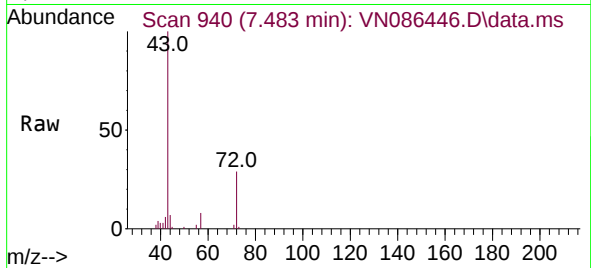




#25
2-Butanone
Concen: 23.957 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

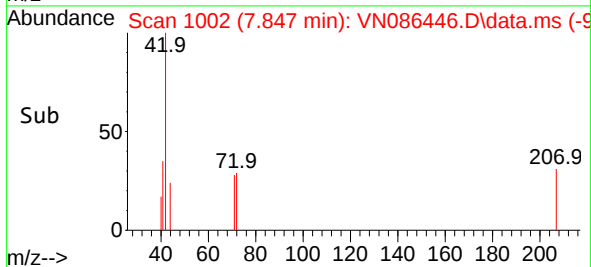
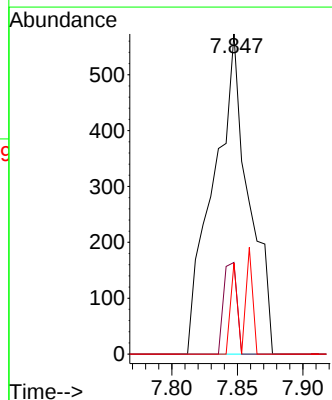
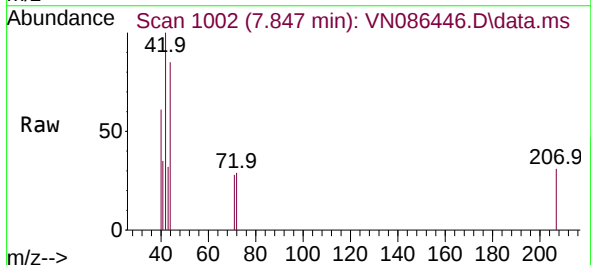
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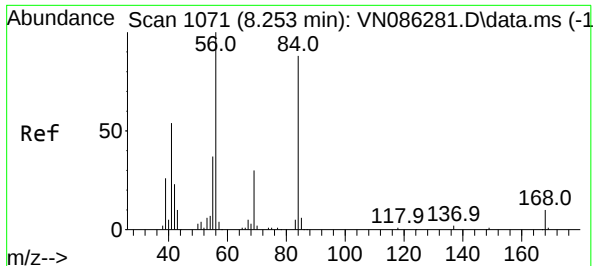
Tgt Ion: 43 Resp: 34578
Ion Ratio Lower Upper
43 100
72 29.3 21.7 32.5



#29
Tetrahydrofuran
Concen: 1.102 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

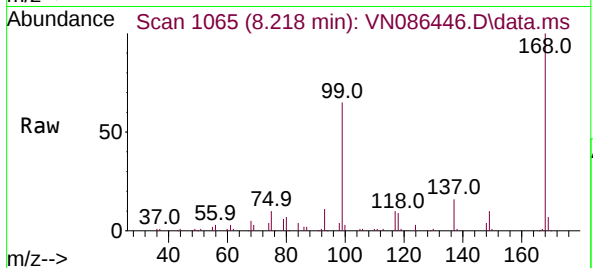
Tgt Ion: 42 Resp: 1064
Ion Ratio Lower Upper
42 100
72 10.6 36.2 54.4#
71 5.5 34.0 51.0#



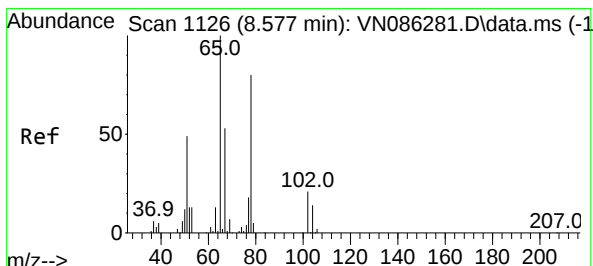
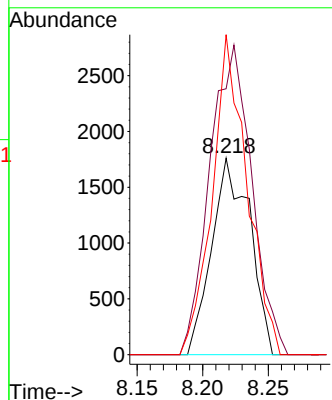
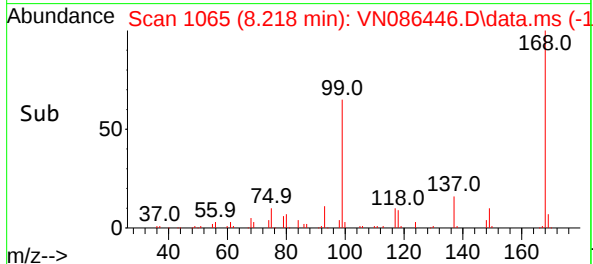


#31
Cyclohexane
Concen: 0.948 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

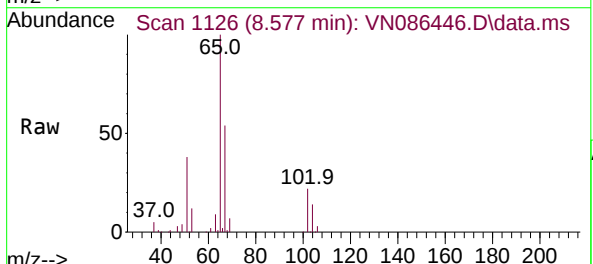
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#16



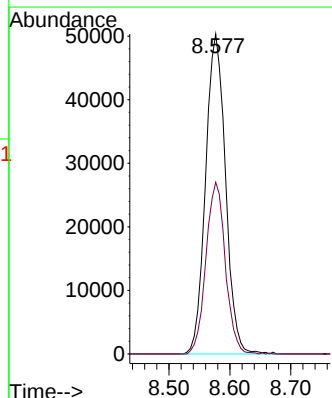
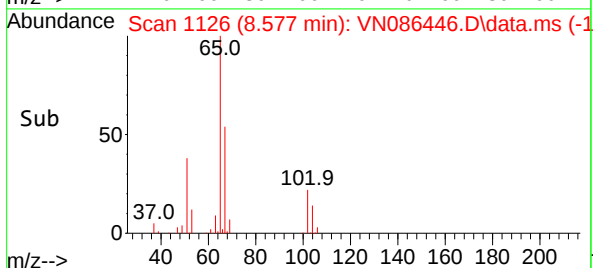
Tgt Ion: 56 Resp: 3561
Ion Ratio Lower Upper
56 100
69 135.3 24.2 36.2#
84 162.8 70.3 105.5#

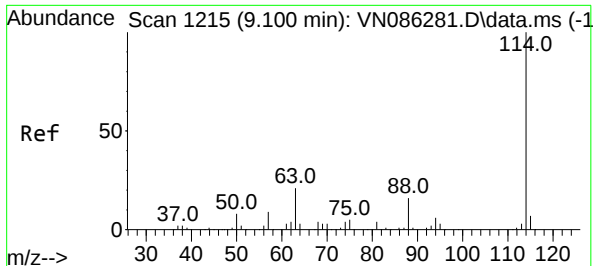


#33
1,2-Dichloroethane-d4
Concen: 49.296 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06



Tgt Ion: 65 Resp: 114309
Ion Ratio Lower Upper
65 100
67 52.2 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: VN086446.D

Acq: 30 Apr 2025 19:06

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#16

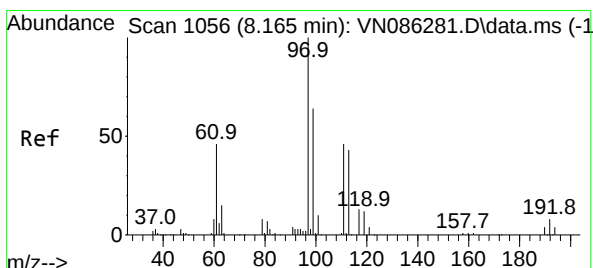
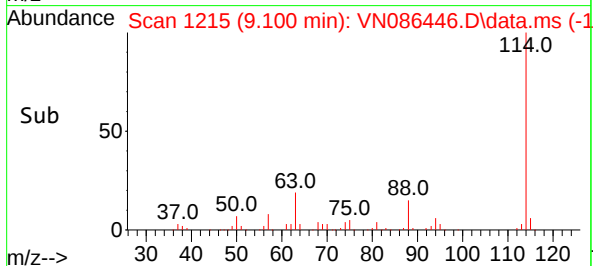
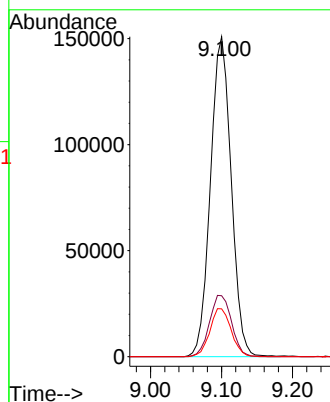
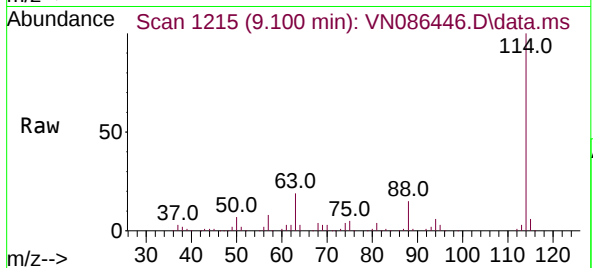
Tgt Ion:114 Resp: 305903

Ion Ratio Lower Upper

114 100

63 19.1 0.0 42.6

88 15.0 0.0 31.8



#35

Dibromofluoromethane

Concen: 51.512 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086446.D

Acq: 30 Apr 2025 19:06

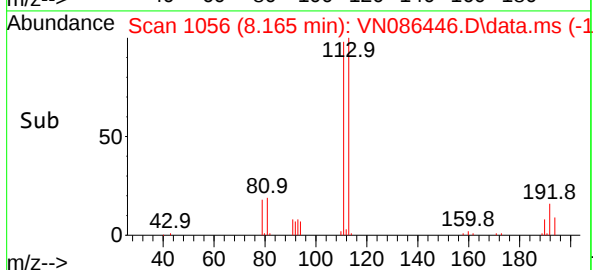
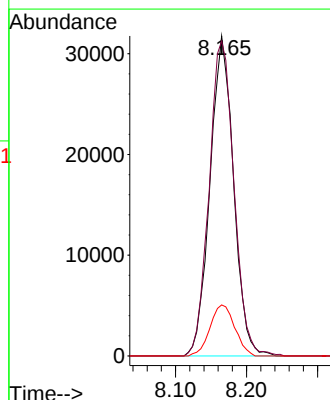
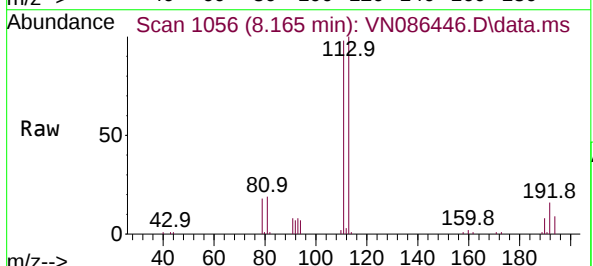
Tgt Ion:113 Resp: 73133

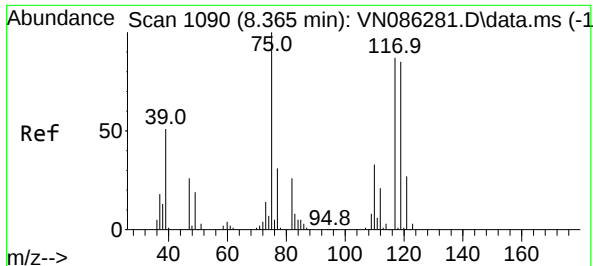
Ion Ratio Lower Upper

113 100

111 103.9 83.4 125.0

192 16.8 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.895 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086446.D

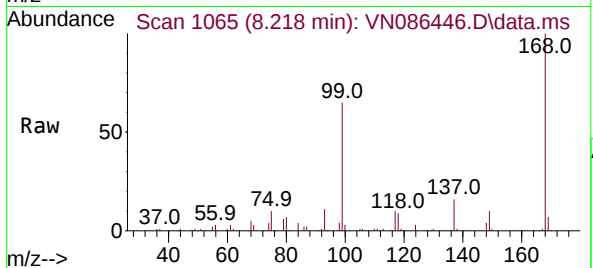
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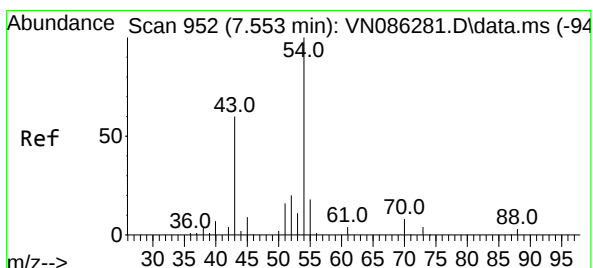
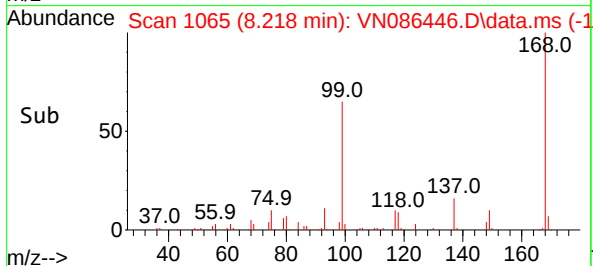
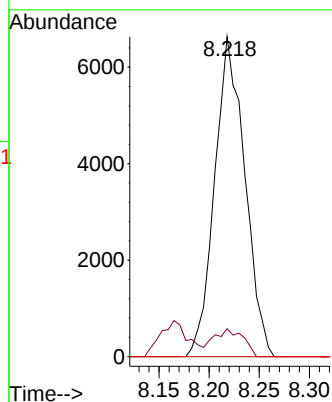
Tgt Ion: 75 Resp: 13881

Ion Ratio Lower Upper

75 100

110 8.4 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 11.582 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.071 min

Lab File: VN086446.D

Acq: 30 Apr 2025 19:06

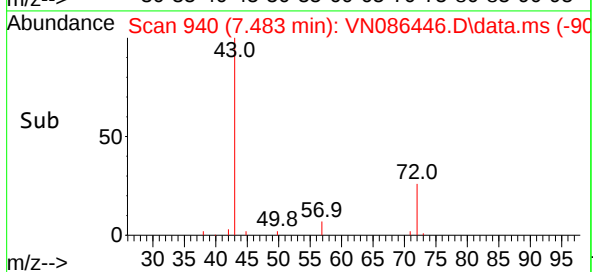
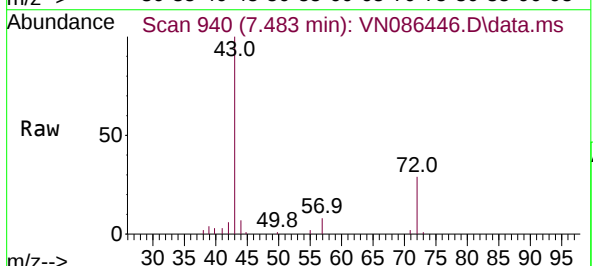
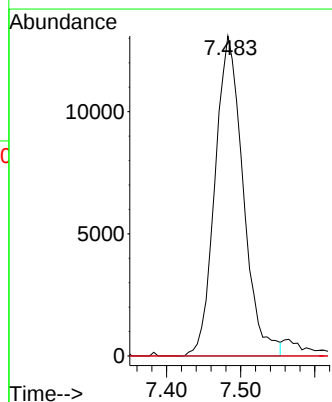
Tgt Ion: 43 Resp: 34578

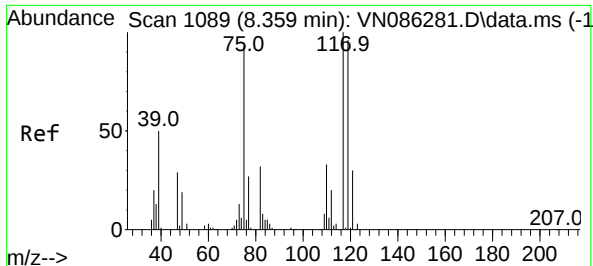
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

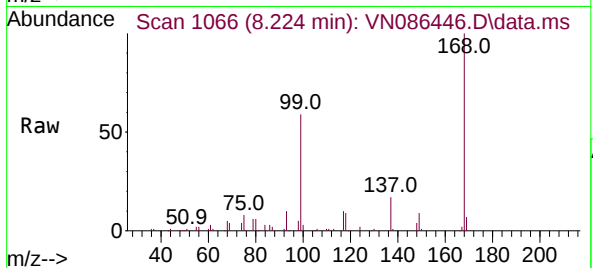
70 0.0 9.2 13.8#



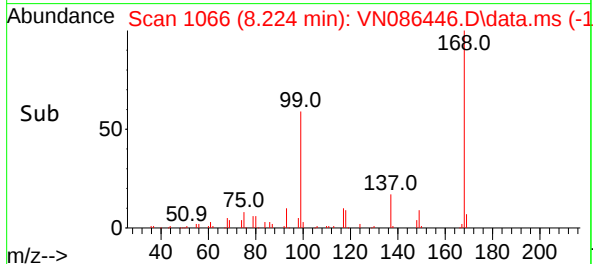
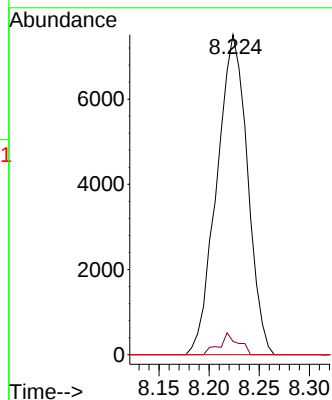


#38
Carbon Tetrachloride
Concen: 5.932 ug/l
RT: 8.224 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#16

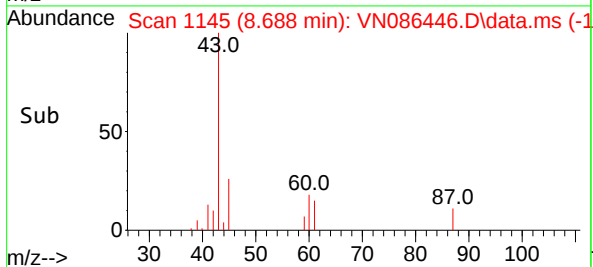
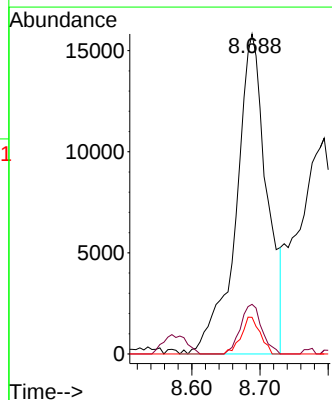
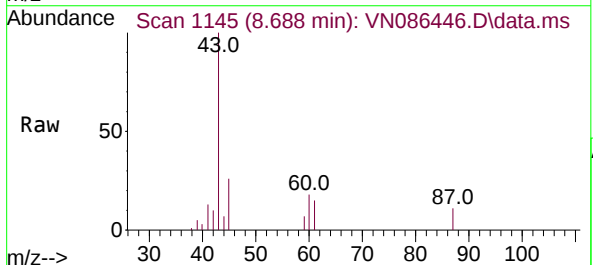


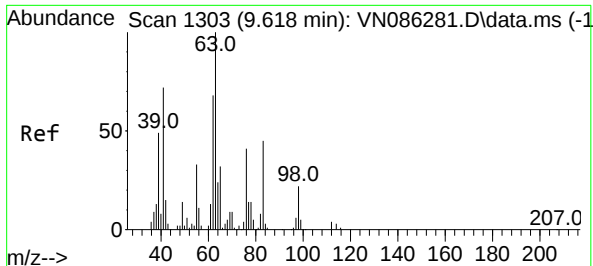
Tgt Ion:117 Resp: 16019
Ion Ratio Lower Upper
117 100
119 4.2 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 7.565 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

Tgt Ion: 43 Resp: 49786
Ion Ratio Lower Upper
43 100
61 10.7 20.5 30.7#
87 7.0 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.345 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN086446.D

Acq: 30 Apr 2025 19:06

Instrument :

MSVOA_N

ClientSampleId :

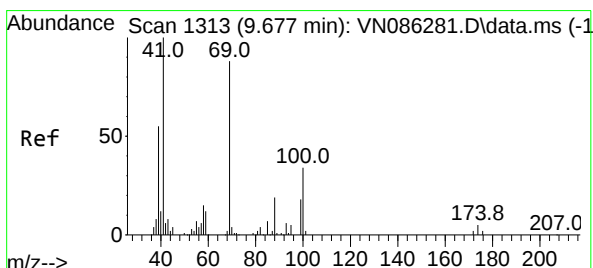
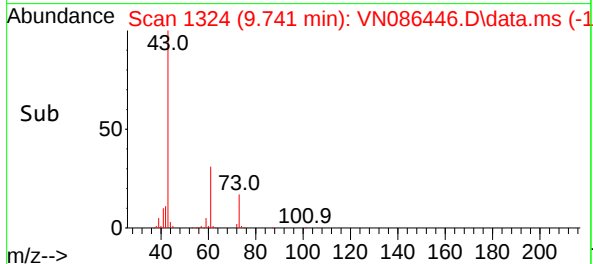
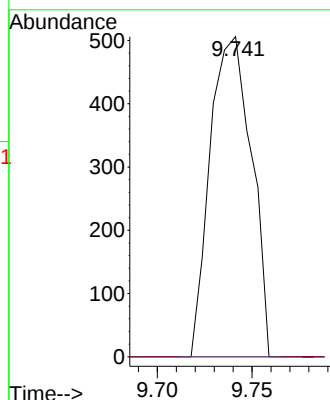
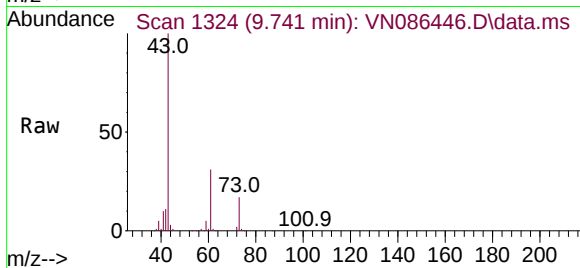
PB167775ZHE#16

Tgt Ion: 63 Resp: 768

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 1.844 ug/l

RT: 9.653 min Scan# 1309

Delta R.T. -0.024 min

Lab File: VN086446.D

Acq: 30 Apr 2025 19:06

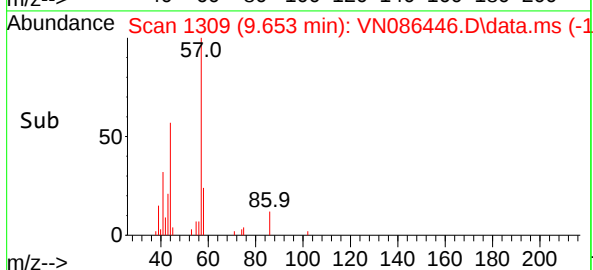
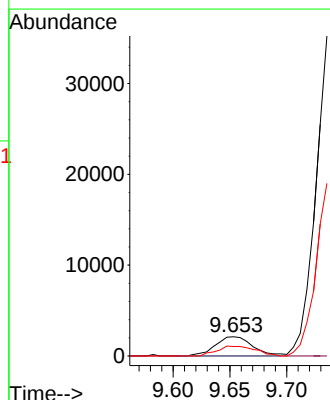
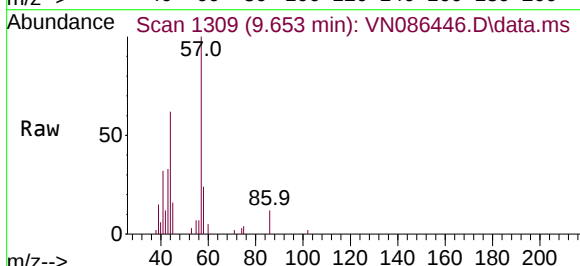
Tgt Ion: 41 Resp: 4834

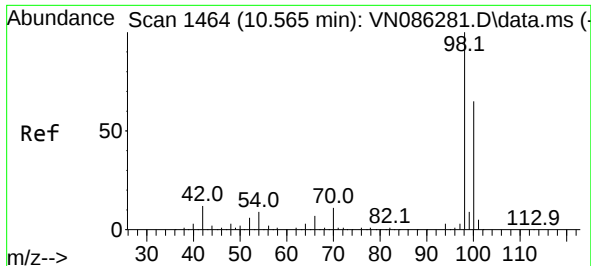
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 52.4 45.2 67.8

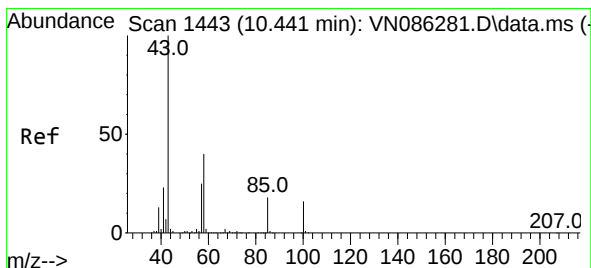
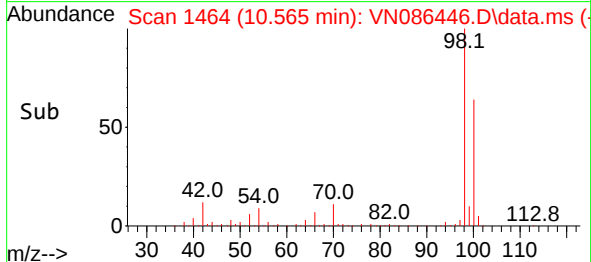
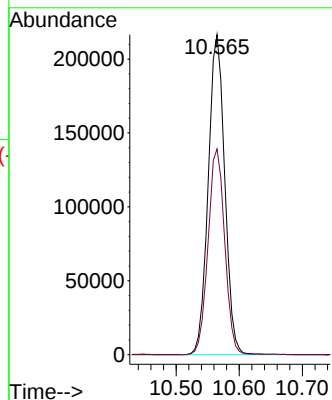
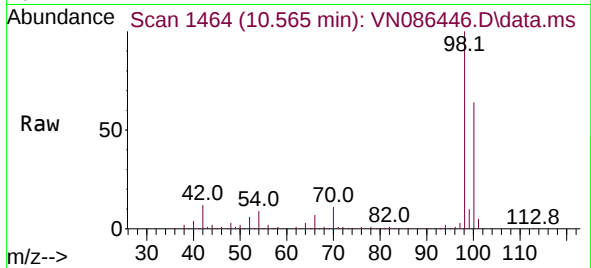




#50
Toluene-d8
Concen: 51.749 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

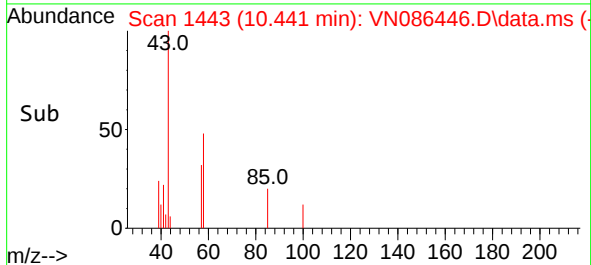
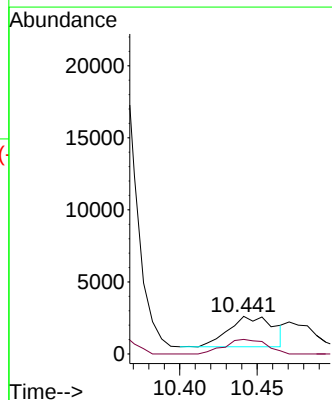
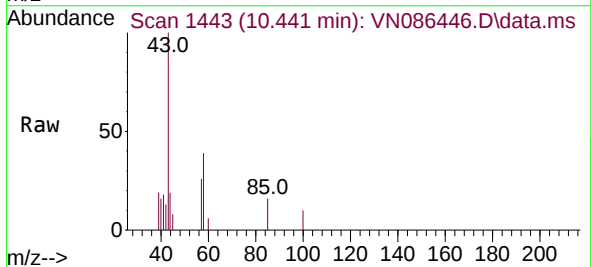
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#16

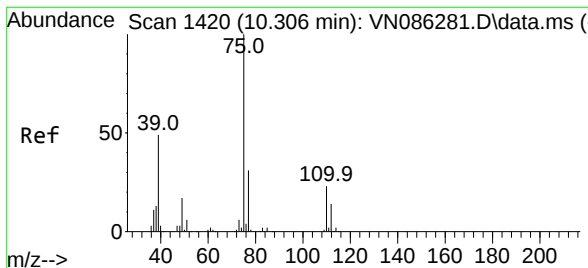
Tgt Ion: 98 Resp: 392662
Ion Ratio Lower Upper
98 100
100 64.9 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.403 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

Tgt Ion: 43 Resp: 4290
Ion Ratio Lower Upper
43 100
58 44.3 32.2 48.4

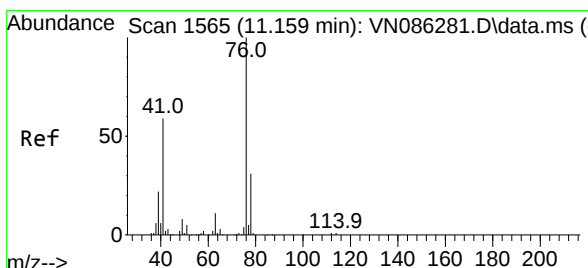
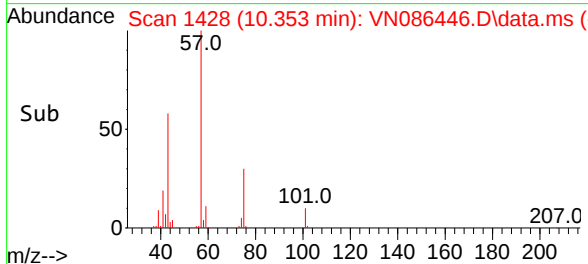
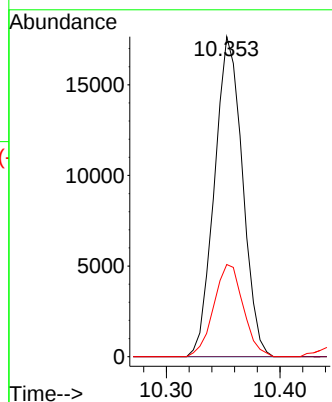
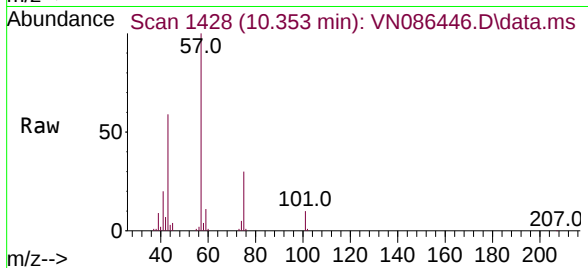




#54
 cis-1,3-Dichloropropene
 Concen: 8.058 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086446.D
 Acq: 30 Apr 2025 19:06

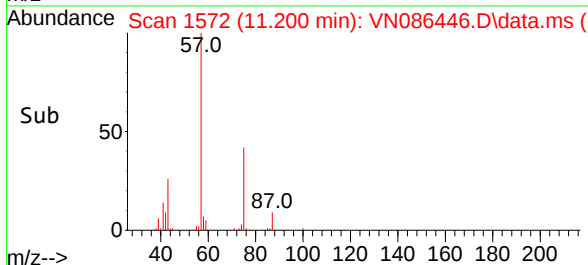
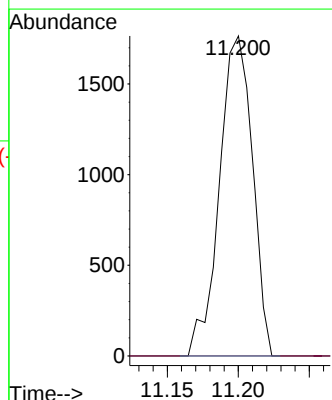
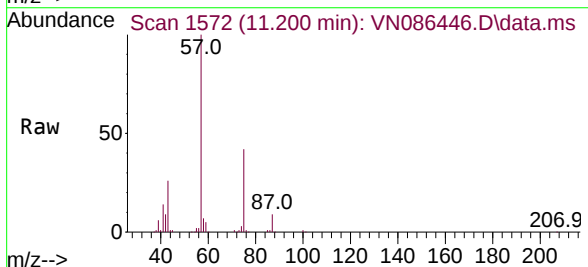
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#16

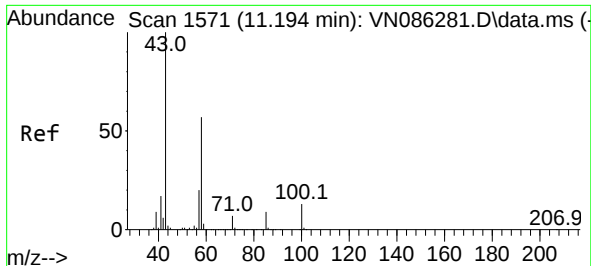
Tgt Ion: 75 Resp: 30236
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 28.8 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.790 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086446.D
 Acq: 30 Apr 2025 19:06

Tgt Ion: 76 Resp: 2859
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

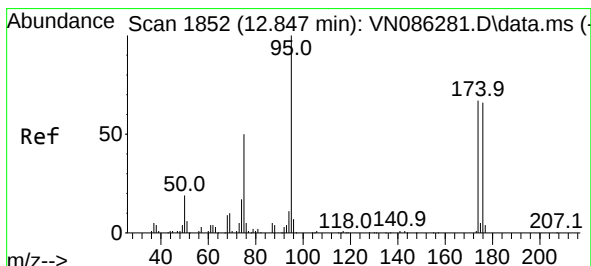
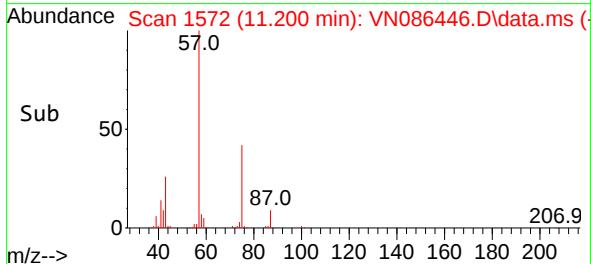
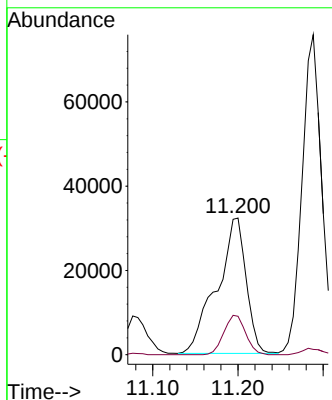
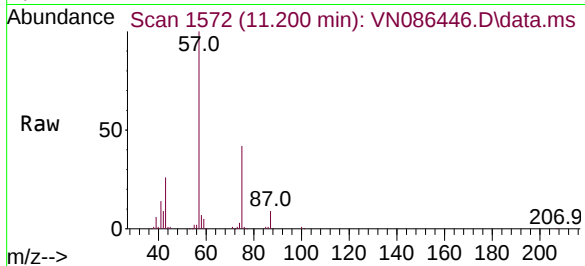




#59
2-Hexanone
Concen: 33.908 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

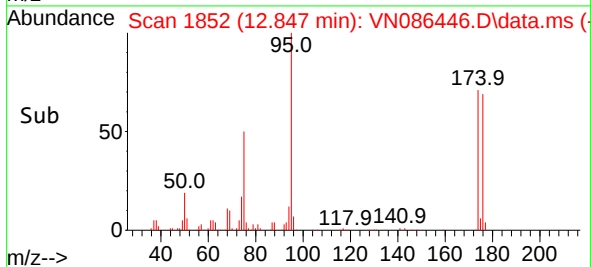
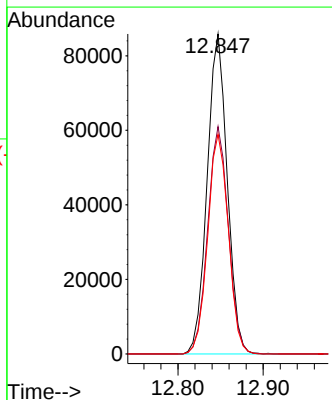
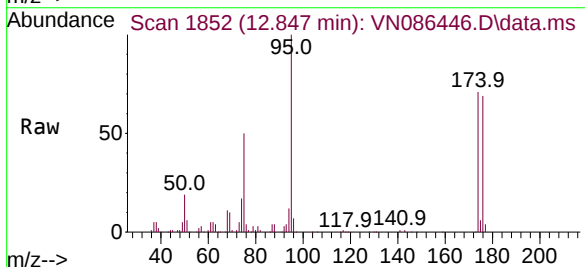
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#16

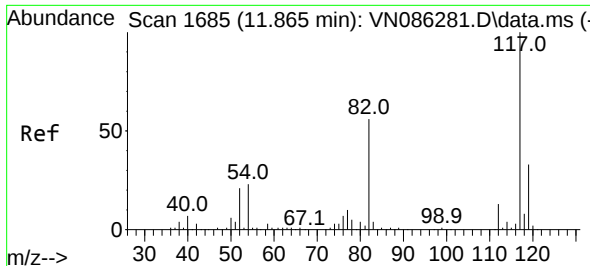
Tgt Ion: 43 Resp: 76888
Ion Ratio Lower Upper
43 100
58 21.5 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 50.821 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

Tgt Ion: 95 Resp: 140651
Ion Ratio Lower Upper
95 100
174 73.1 0.0 133.4
176 70.2 0.0 129.2

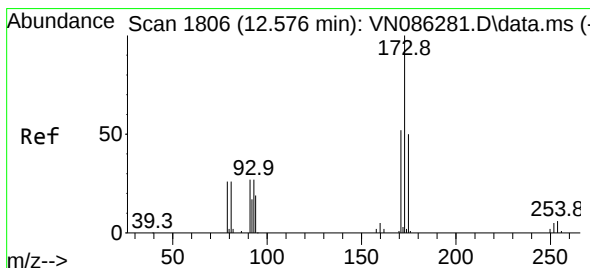
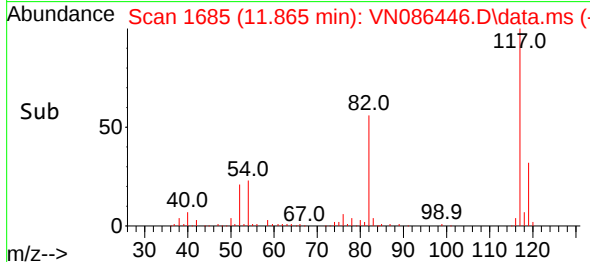
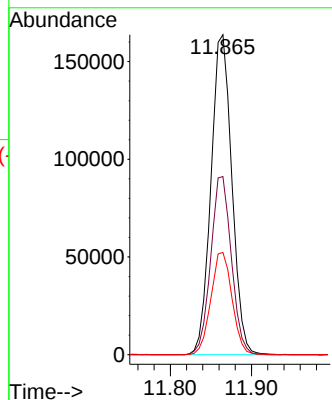
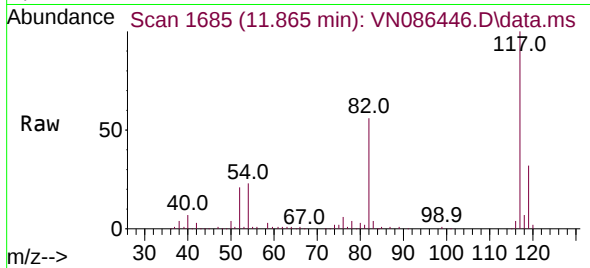




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

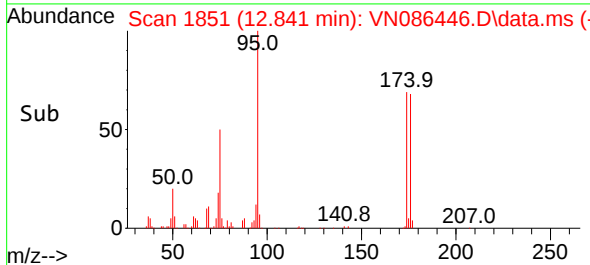
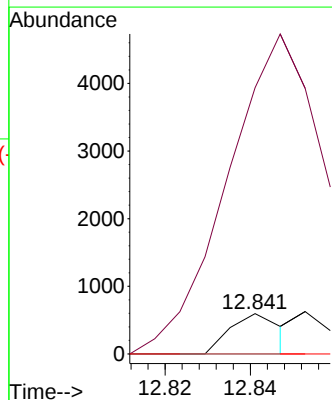
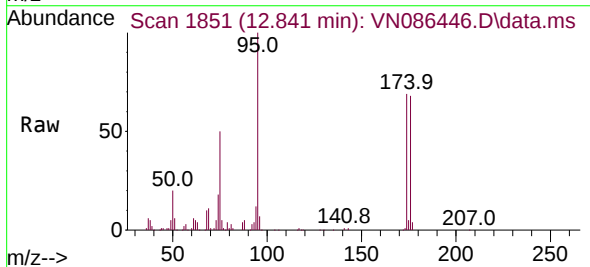
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#16

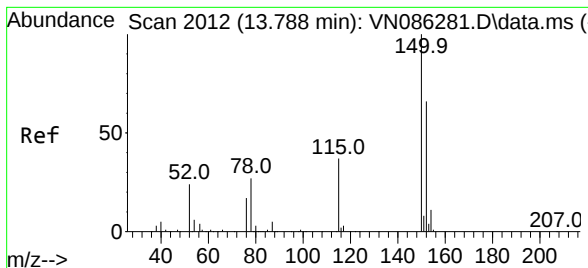
Tgt Ion:117 Resp: 292538
Ion Ratio Lower Upper
117 100
82 55.6 44.7 67.1
119 32.0 26.4 39.6



#71
Bromoform
Concen: 0.303 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

Tgt Ion:173 Resp: 492
Ion Ratio Lower Upper
173 100
175 1265.2 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# 20

Delta R.T. 0.000 min

Lab File: VN086446.D

Acq: 30 Apr 2025 19:06

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#16

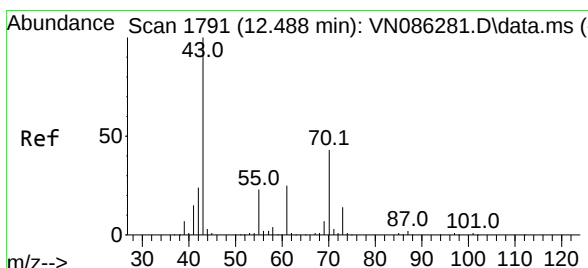
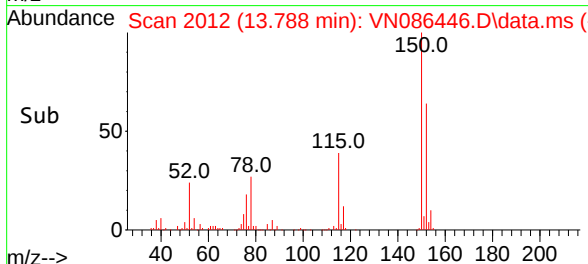
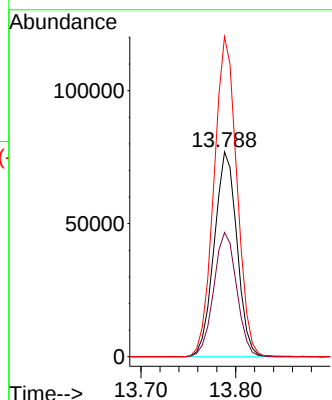
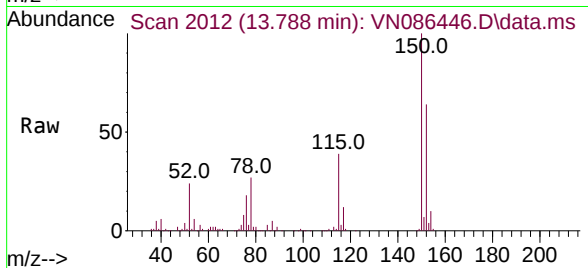
Tgt Ion:152 Resp: 128597

Ion Ratio Lower Upper

152 100

115 61.2 31.9 95.9

150 157.7 0.0 352.0



#74

N-ethyl acetate

Concen: 1.656 ug/l

RT: 12.453 min Scan# 1785

Delta R.T. -0.035 min

Lab File: VN086446.D

Acq: 30 Apr 2025 19:06

Tgt Ion: 43 Resp: 8671

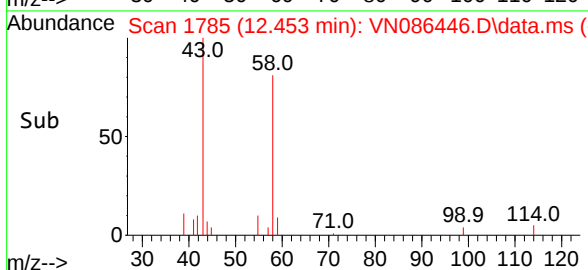
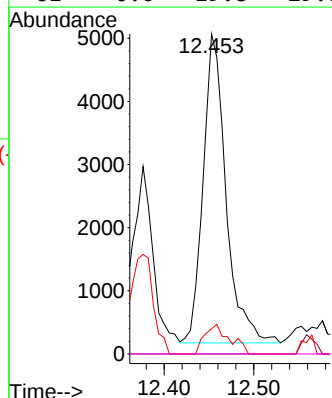
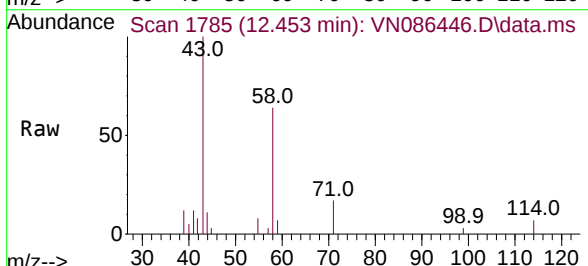
Ion Ratio Lower Upper

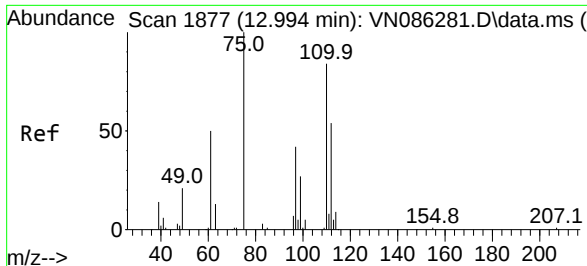
43 100

70 0.0 35.0 52.4#

55 10.3 19.0 28.4#

61 0.0 19.8 29.8#

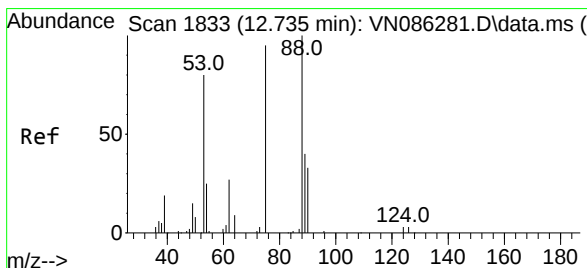
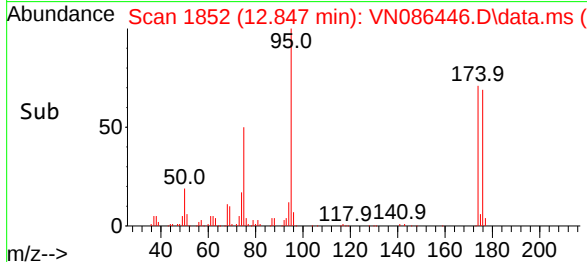
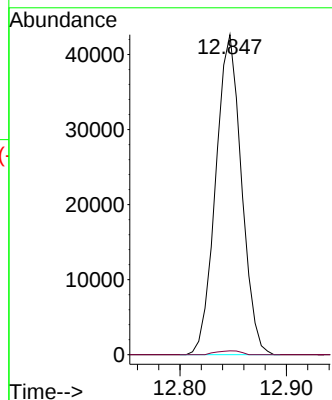
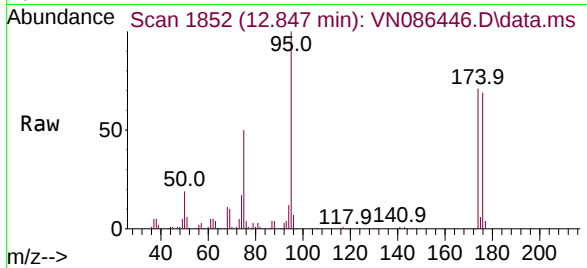




#76
1,2,3-Trichloropropane
Concen: 23.608 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#16

Tgt Ion: 75 Resp: 71643
Ion Ratio Lower Upper
75 100
77 1.1 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 56.698 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086446.D
Acq: 30 Apr 2025 19:06

Tgt Ion: 75 Resp: 71643
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

