

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051425\  
 Data File : VX046193.D  
 Acq On : 14 May 2025 14:45  
 Operator : JC/MD  
 Sample : Q2018-04DL 40X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW2DL

Quant Time: May 15 01:23:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

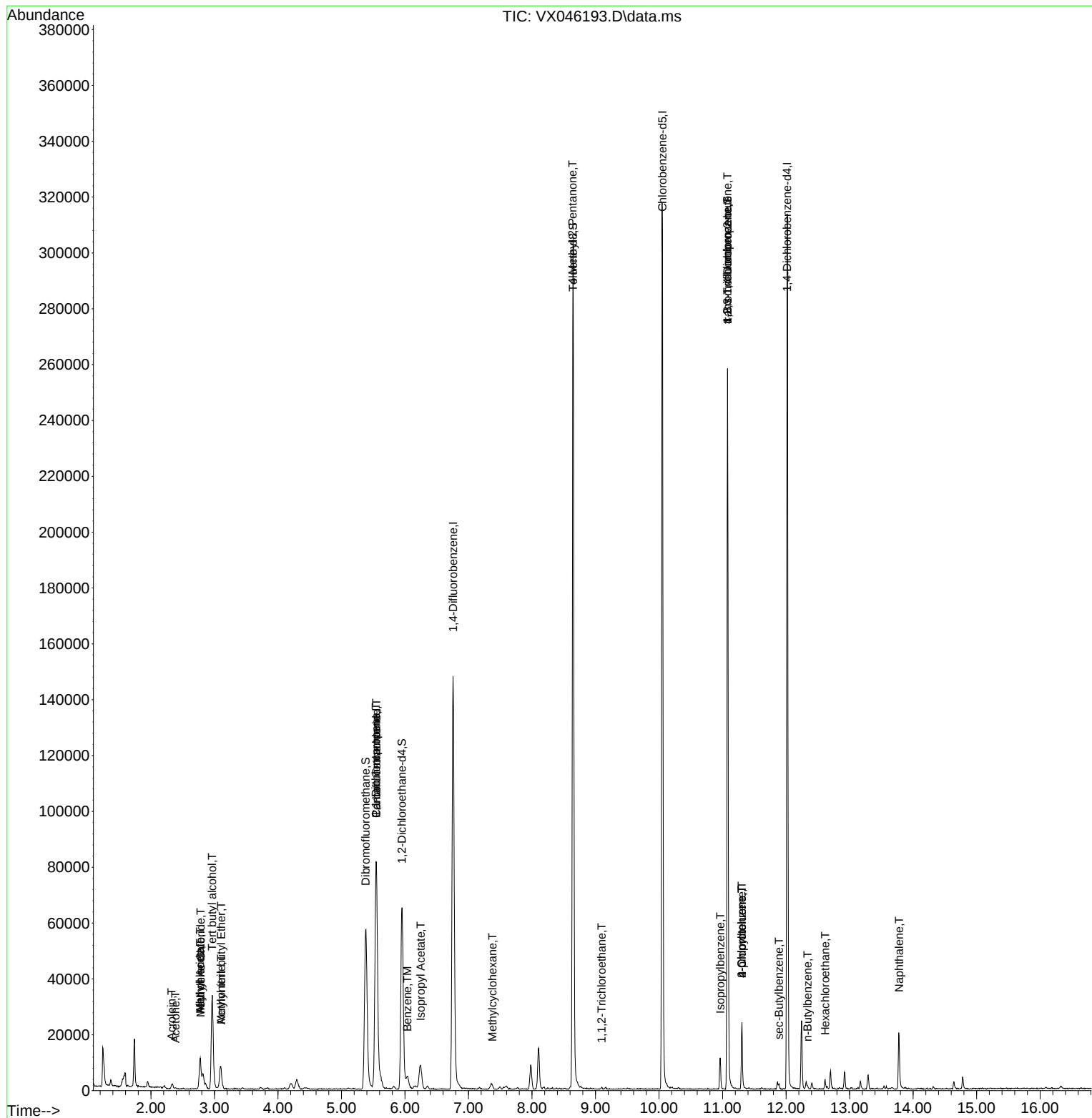
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 71196    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 139917   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 132344   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 59001    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 68079    | 51.291   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 102.580% |          |
| 35) Dibromofluoromethane      | 5.379  | 113   | 50731    | 50.351   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 100.700% |          |
| 50) Toluene-d8                | 8.647  | 98    | 176120   | 50.504   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 101.000% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 68773    | 51.413   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 102.820% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 2.965  | 59    | 34055    | 182.781  | ug/l       | 98       |
| 13) Acrolein                  | 2.325  | 56    | 251      | 1.183    | ug/l #     | 46       |
| 14) Allyl chloride            | 2.776  | 41    | 3460     | 2.144    | ug/l #     | 70       |
| 15) Acrylonitrile             | 3.105  | 53    | 299      | 0.561    | ug/l #     | 27       |
| 16) Acetone                   | 2.386  | 43    | 449      | 0.844    | ug/l       | 97       |
| 18) Methyl Acetate            | 2.776  | 43    | 8416     | 6.815    | ug/l #     | 55       |
| 19) Methyl tert-butyl Ether   | 3.105  | 73    | 785      | 0.265    | ug/l #     | 1        |
| 20) Methylene Chloride        | 2.782  | 84    | 311      | 0.305    | ug/l #     | 23       |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 6897     | 5.095    | ug/l #     | 46       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 8223     | 5.406    | ug/l #     | 15       |
| 39) Methylcyclohexane         | 7.379  | 83    | 480      | 0.275    | ug/l #     | 81       |
| 40) Benzene                   | 6.037  | 78    | 5105     | 1.287    | ug/l #     | 89       |
| 43) Isopropyl Acetate         | 6.245  | 43    | 2401     | 0.941    | ug/l #     | 63       |
| 51) 4-Methyl-2-Pentanone      | 8.641  | 43    | 973      | 0.574    | ug/l #     | 1        |
| 55) 1,1,2-Trichloroethane     | 9.098  | 97    | 230      | 0.240    | ug/l #     | 15       |
| 73) Isopropylbenzene          | 10.963 | 105   | 6043     | 1.316    | ug/l       | 97       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 40407    | 28.452   | ug/l #     | 36       |
| 78) n-propylbenzene           | 11.305 | 91    | 15400    | 2.883    | ug/l       | 99       |
| 79) 2-Chlorotoluene           | 11.305 | 91    | 15400    | 4.470    | ug/l #     | 44       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 40407    | 92.631   | ug/l #     | 1        |
| 82) 4-Chlorotoluene           | 11.305 | 91    | 15400    | 4.031    | ug/l #     | 48       |
| 85) sec-Butylbenzene          | 11.890 | 105   | 1177     | 0.248    | ug/l #     | 57       |
| 89) n-Butylbenzene            | 12.341 | 91    | 1024     | 0.298    | ug/l #     | 68       |
| 90) Hexachloroethane          | 12.616 | 117   | 186      | 0.269    | ug/l #     | 19       |
| 95) Naphthalene               | 13.780 | 128   | 14541    | 3.534    | ug/l       | 100      |
| -----                         |        |       |          |          |            |          |

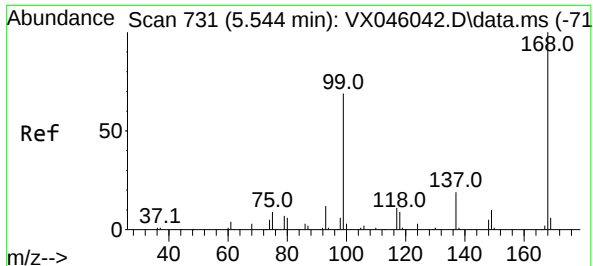
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 06 07:12:22 2025  
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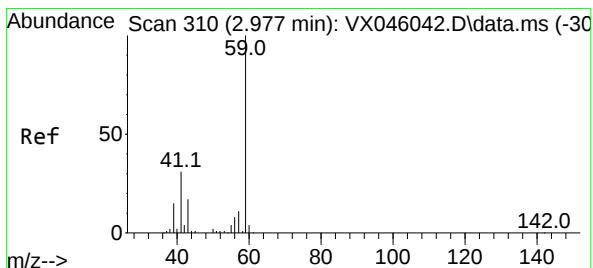
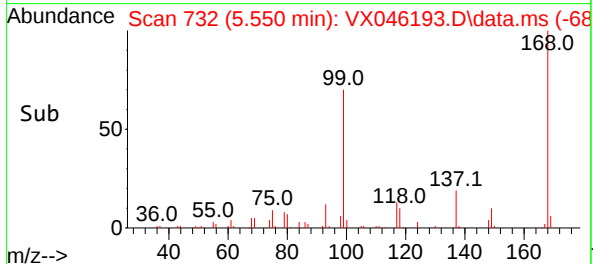
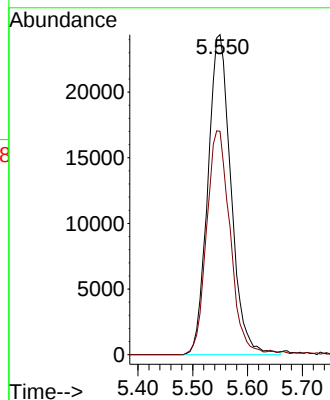
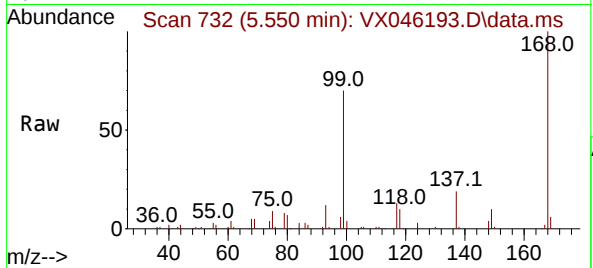




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

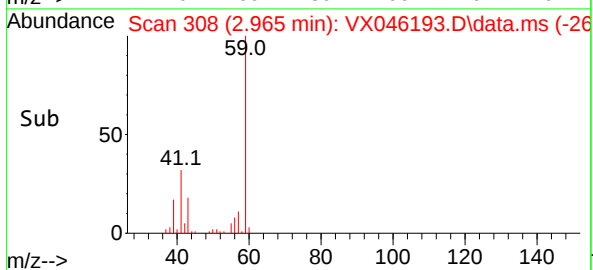
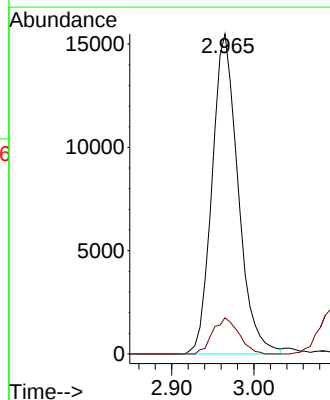
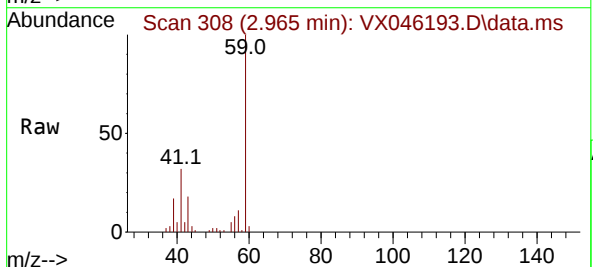
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW2DL

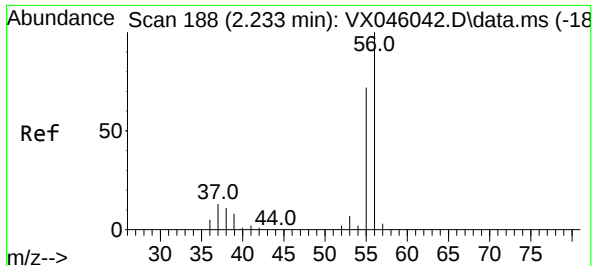
Tgt Ion:168 Resp: 71196  
Ion Ratio Lower Upper  
168 100  
99 69.8 54.9 82.3



#11  
Tert butyl alcohol  
Concen: 182.781 ug/l  
RT: 2.965 min Scan# 308  
Delta R.T. -0.012 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

Tgt Ion: 59 Resp: 34055  
Ion Ratio Lower Upper  
59 100  
57 11.3 8.6 12.8





#13

Acrolein

Concen: 1.183 ug/l

RT: 2.325 min Scan# 20

Delta R.T. 0.091 min

Lab File: VX046193.D

Acq: 14 May 2025 14:45

Instrument :

MSVOA\_X

ClientSampleId :

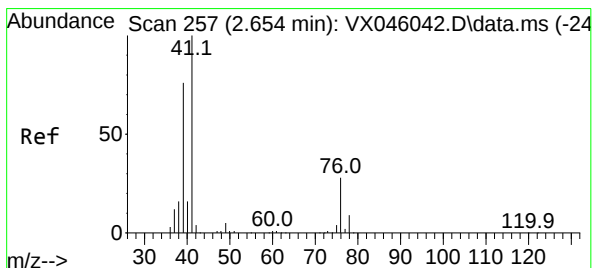
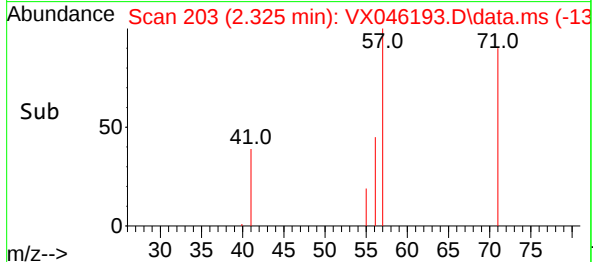
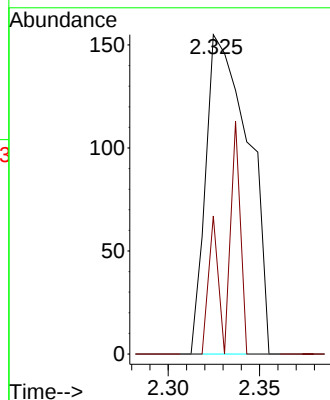
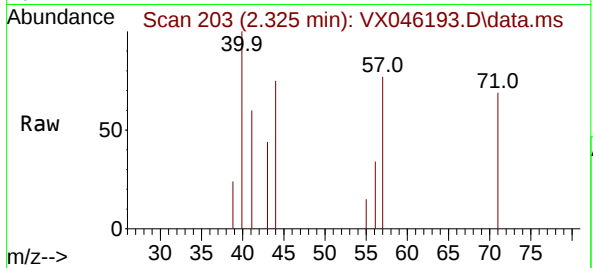
MW2DL

Tgt Ion: 56 Resp: 251

Ion Ratio Lower Upper

56 100

55 26.3 56.2 84.4#



#14

Allyl chloride

Concen: 2.144 ug/l

RT: 2.776 min Scan# 277

Delta R.T. 0.122 min

Lab File: VX046193.D

Acq: 14 May 2025 14:45

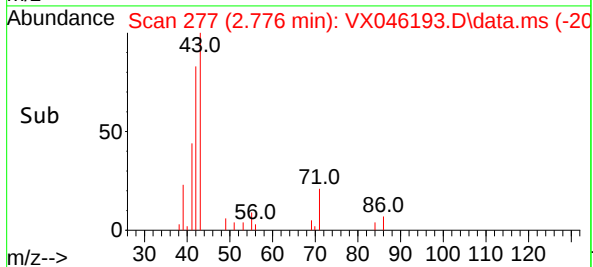
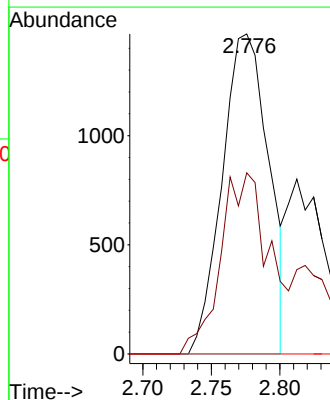
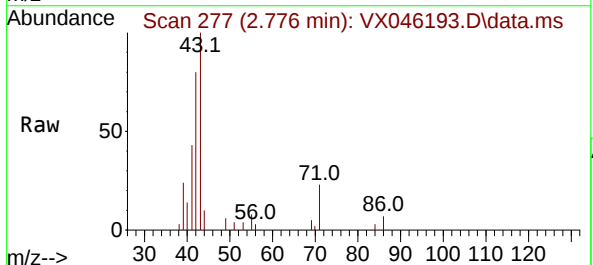
Tgt Ion: 41 Resp: 3460

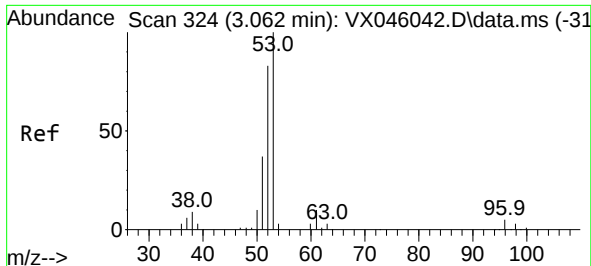
Ion Ratio Lower Upper

41 100

39 59.7 60.6 90.8#

76 0.0 24.9 37.3#





#15

Acrylonitrile

Concen: 0.561 ug/l

RT: 3.105 min Scan# 31

Delta R.T. 0.043 min

Lab File: VX046193.D

Acq: 14 May 2025 14:45

Instrument :

MSVOA\_X

ClientSampleId :

MW2DL

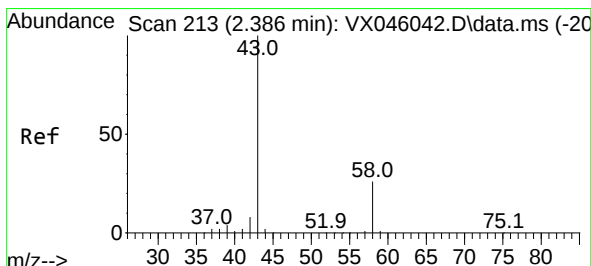
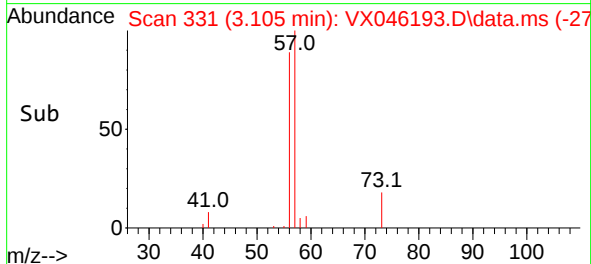
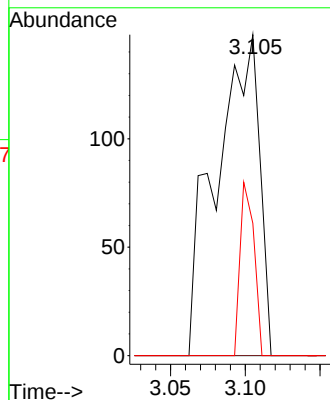
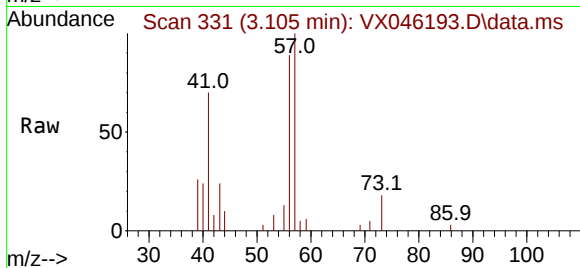
Tgt Ion: 53 Resp: 299

Ion Ratio Lower Upper

53 100

52 0.0 65.3 97.9#

51 17.4 29.8 44.8#



#16

Acetone

Concen: 0.844 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX046193.D

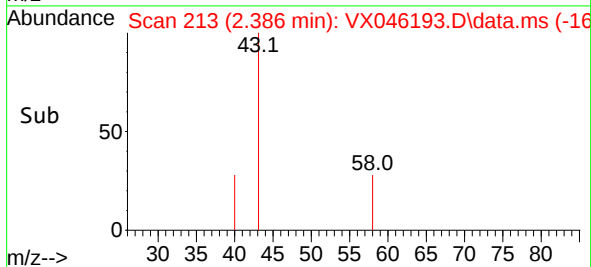
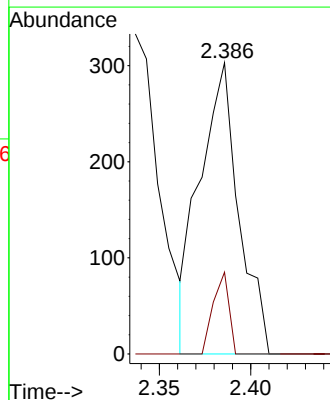
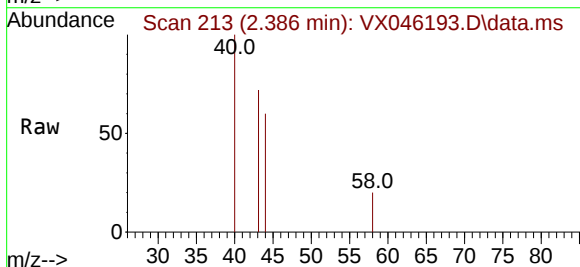
Acq: 14 May 2025 14:45

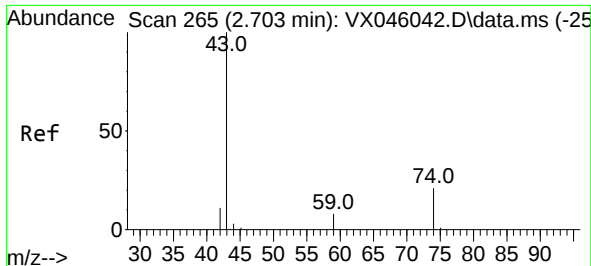
Tgt Ion: 43 Resp: 449

Ion Ratio Lower Upper

43 100

58 28.1 21.2 31.8





#18

Methyl Acetate

Concen: 6.815 ug/l

RT: 2.776 min Scan# 21

Delta R.T. 0.073 min

Lab File: VX046193.D

Acq: 14 May 2025 14:45

Instrument :

MSVOA\_X

ClientSampleId :

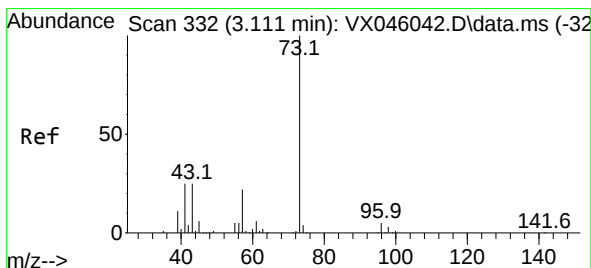
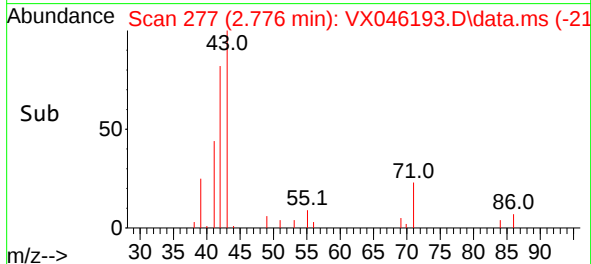
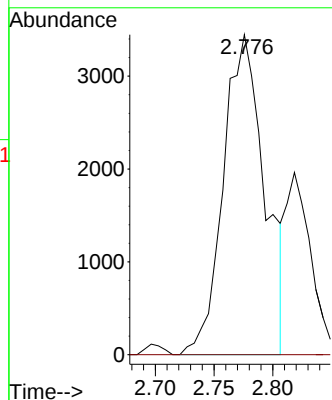
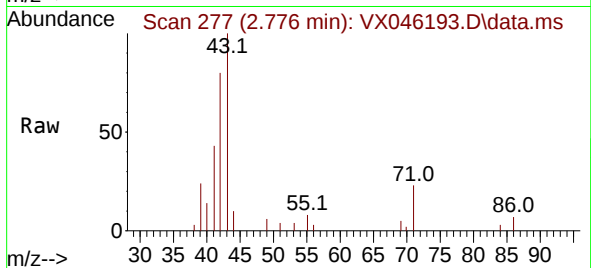
MW2DL

Tgt Ion: 43 Resp: 8416

Ion Ratio Lower Upper

43 100

74 0.0 16.7 25.1#



#19

Methyl tert-butyl Ether

Concen: 0.265 ug/l

RT: 3.105 min Scan# 331

Delta R.T. -0.006 min

Lab File: VX046193.D

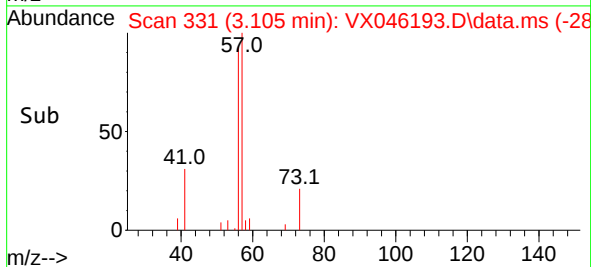
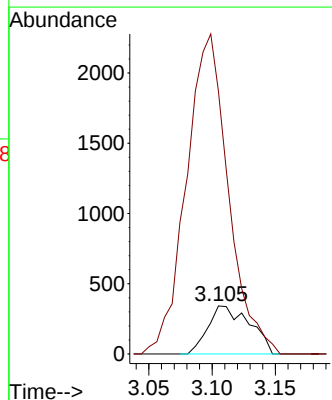
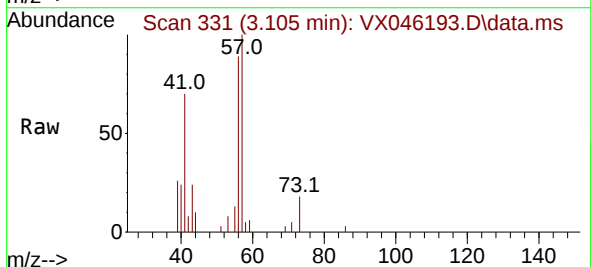
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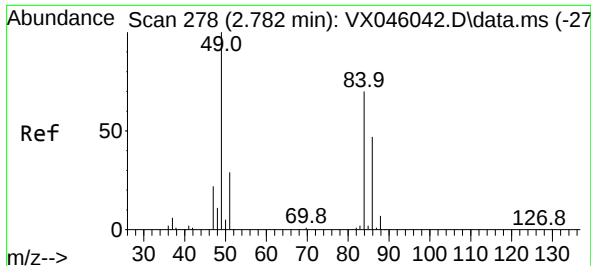
Tgt Ion: 73 Resp: 785

Ion Ratio Lower Upper

73 100

57 546.8 17.7 26.5#

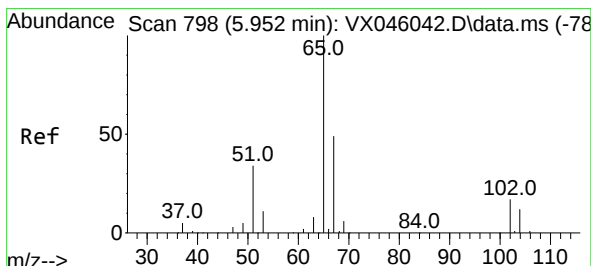
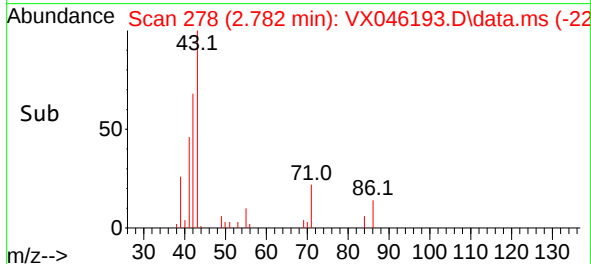
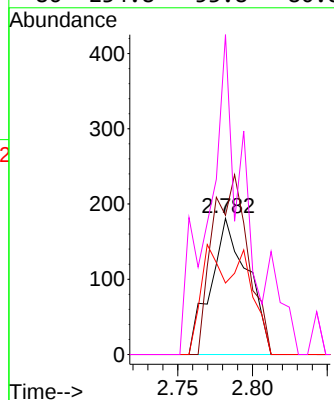
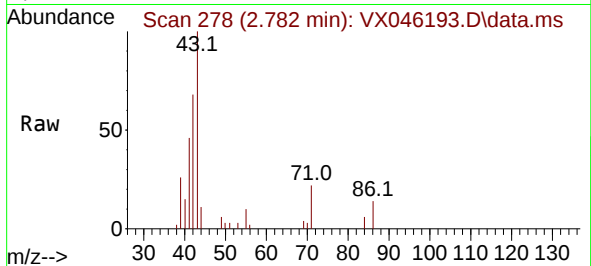




#20  
Methylene Chloride  
Concen: 0.305 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

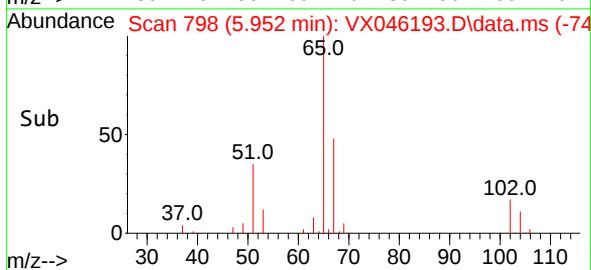
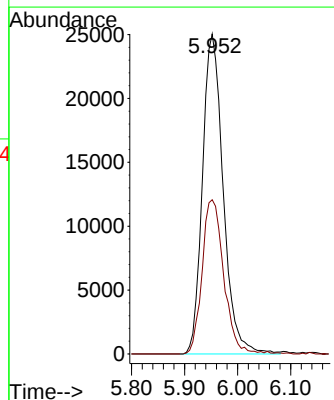
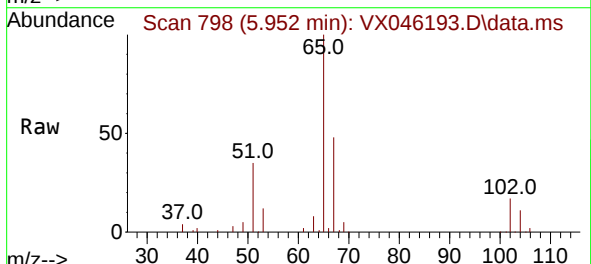
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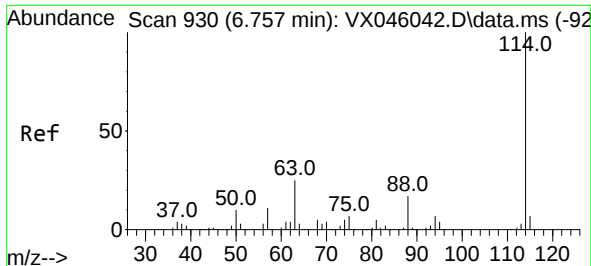
Tgt Ion: 84 Resp: 311  
Ion Ratio Lower Upper  
84 100  
49 102.2 113.9 170.9#  
51 52.5 33.5 50.3#  
86 234.8 53.8 80.8#



#33  
1,2-Dichloroethane-d4  
Concen: 51.291 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

Tgt Ion: 65 Resp: 68079  
Ion Ratio Lower Upper  
65 100  
67 50.2 0.0 99.0

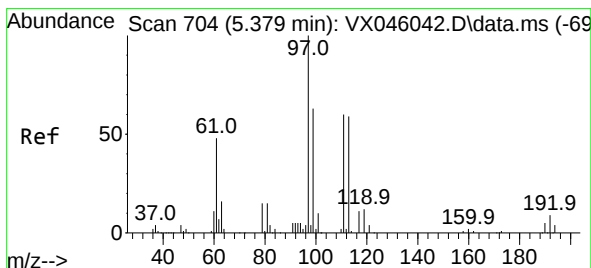
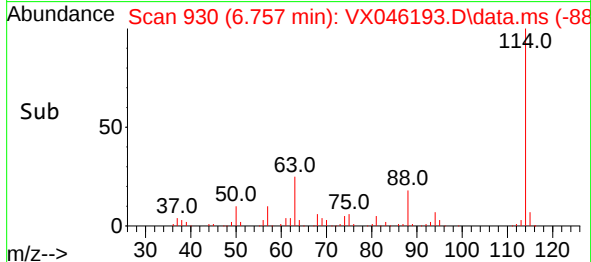
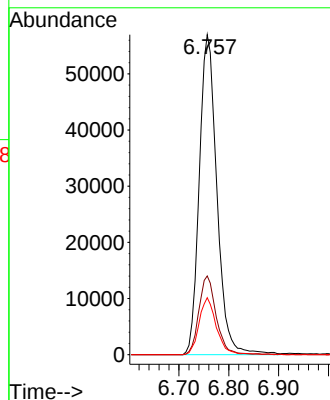
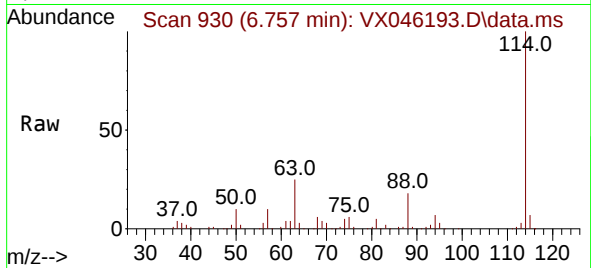




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

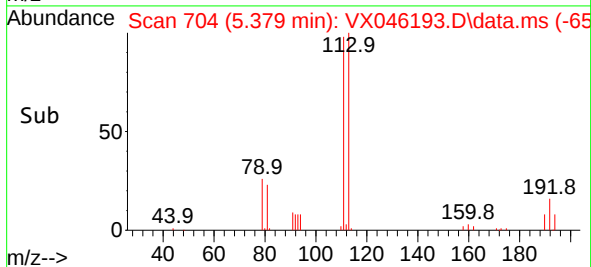
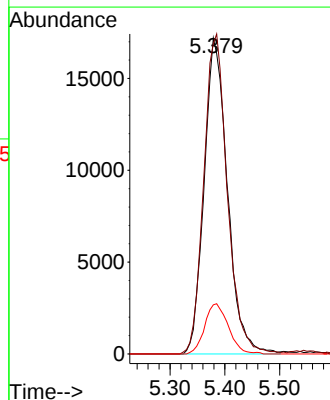
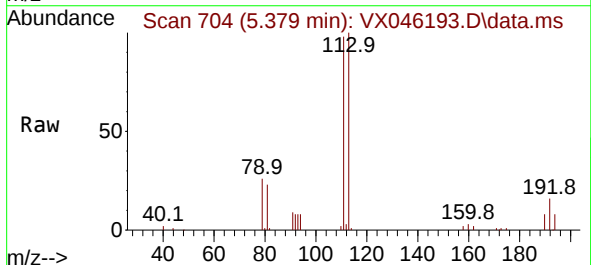
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW2DL

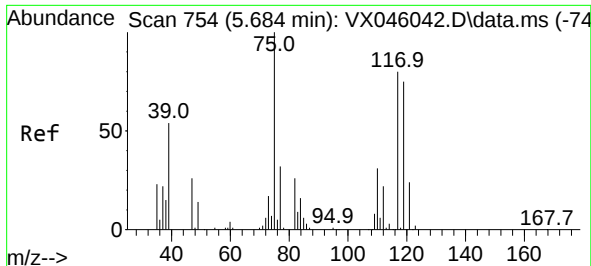
Tgt Ion:114 Resp: 139917  
Ion Ratio Lower Upper  
114 100  
63 24.6 0.0 49.2  
88 17.8 0.0 33.6



#35  
Dibromofluoromethane  
Concen: 50.351 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.000 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

Tgt Ion:113 Resp: 50731  
Ion Ratio Lower Upper  
113 100  
111 102.2 83.1 124.7  
192 16.1 13.3 19.9





#36

1,1-Dichloropropene

Concen: 5.095 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX046193.D

Acq: 14 May 2025 14:45

Instrument :

MSVOA\_X

ClientSampleId :

MW2DL

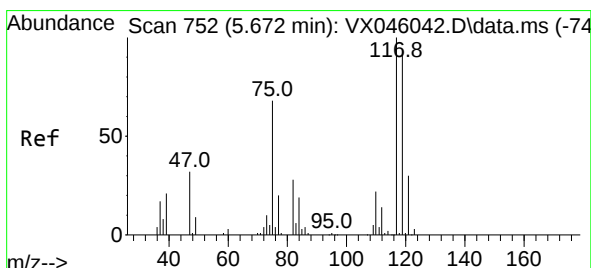
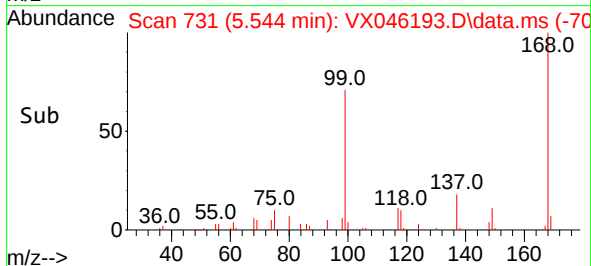
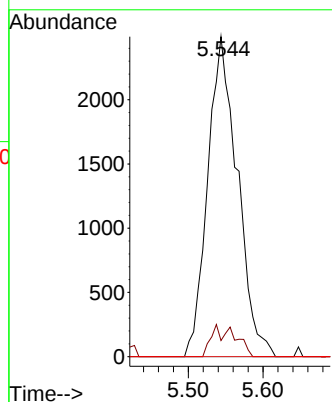
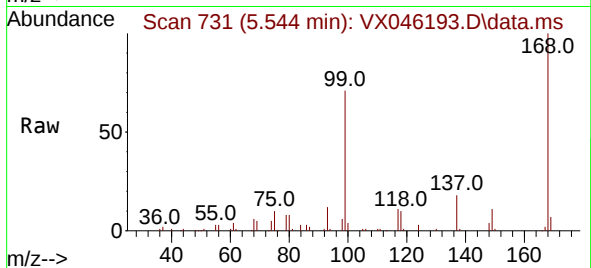
Tgt Ion: 75 Resp: 6897

Ion Ratio Lower Upper

75 100

110 3.3 16.3 48.9#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 5.406 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.122 min

Lab File: VX046193.D

Acq: 14 May 2025 14:45

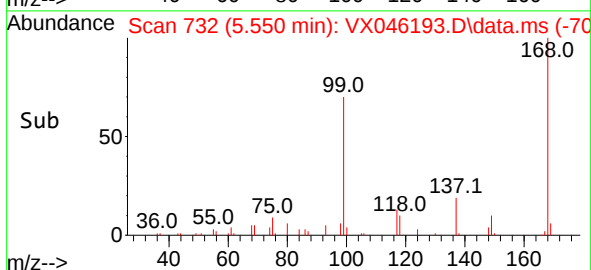
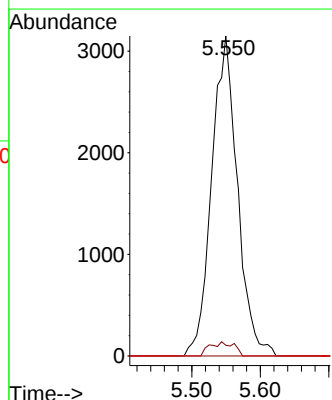
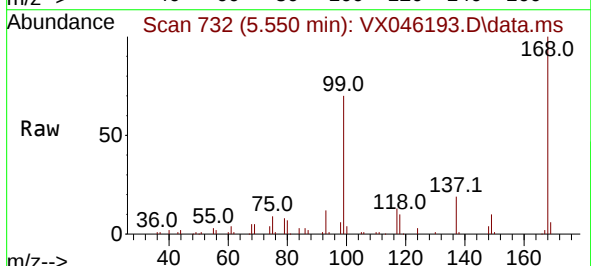
Tgt Ion: 117 Resp: 8223

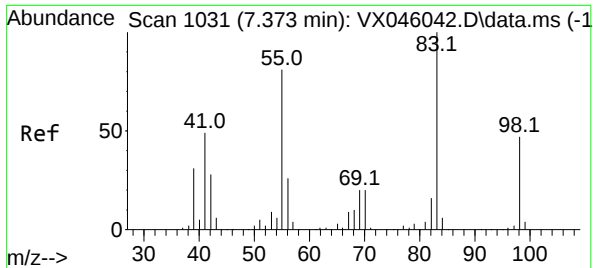
Ion Ratio Lower Upper

117 100

119 3.4 75.2 112.8#

121 0.0 24.2 36.4#

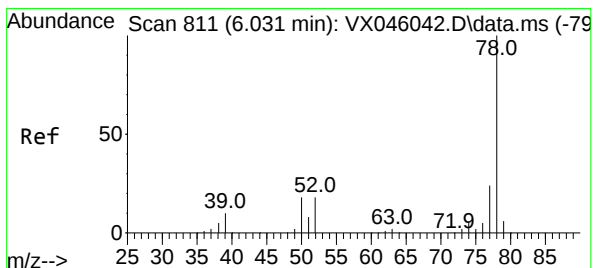
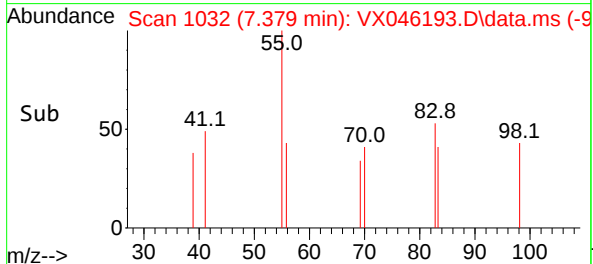
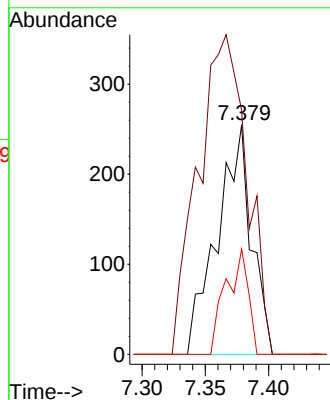
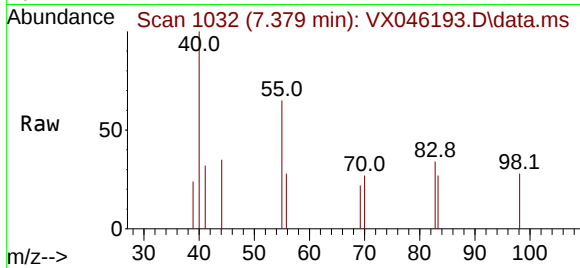




#39  
Methylcyclohexane  
Concen: 0.275 ug/l  
RT: 7.379 min Scan# 1032  
Delta R.T. 0.006 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

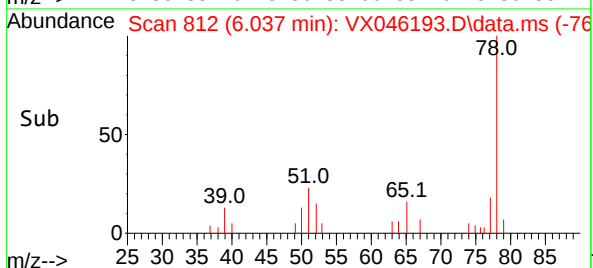
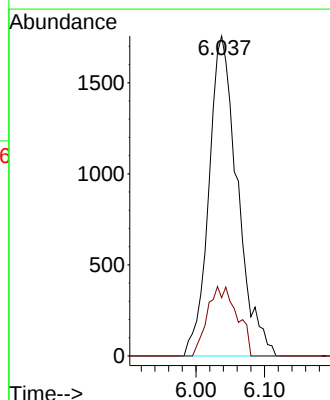
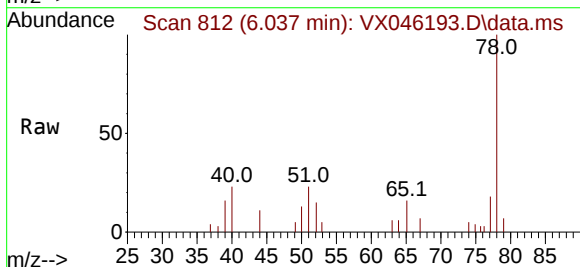
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW2DL

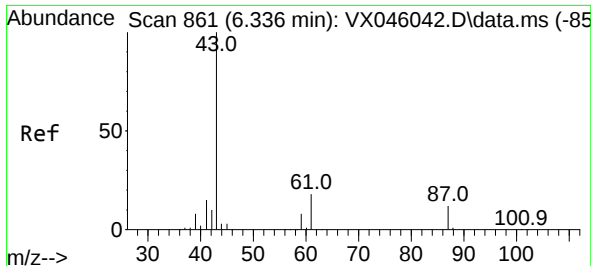
Tgt Ion: 83 Resp: 480  
Ion Ratio Lower Upper  
83 100  
55 106.3 64.7 97.1#  
98 45.9 37.4 56.2



#40  
Benzene  
Concen: 1.287 ug/l  
RT: 6.037 min Scan# 812  
Delta R.T. 0.006 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

Tgt Ion: 78 Resp: 5105  
Ion Ratio Lower Upper  
78 100  
77 18.2 19.0 28.4#

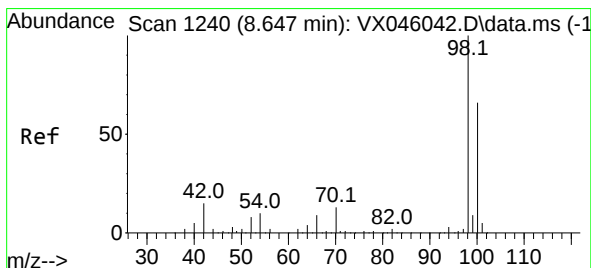
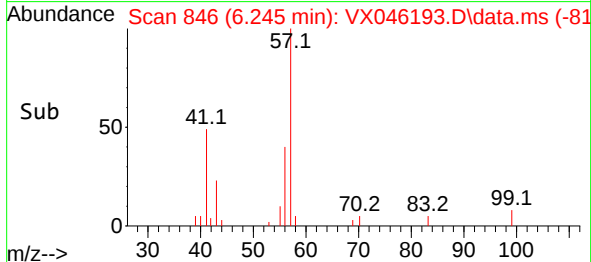
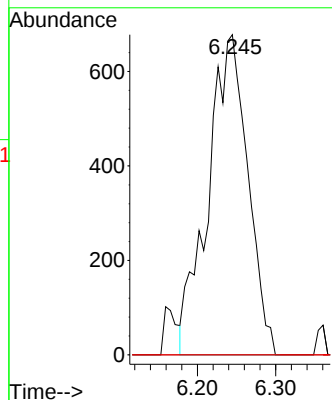
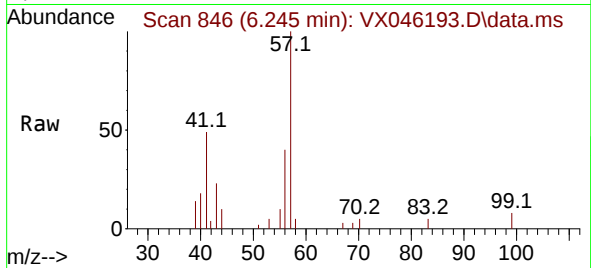




#43  
Isopropyl Acetate  
Concen: 0.941 ug/l  
RT: 6.245 min Scan# 84  
Delta R.T. -0.092 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

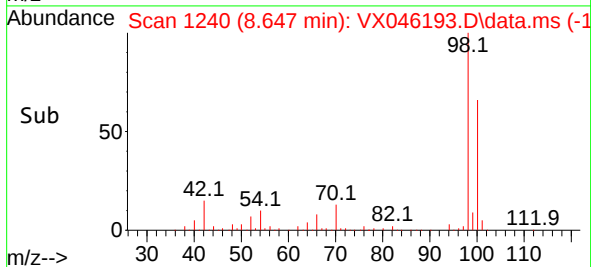
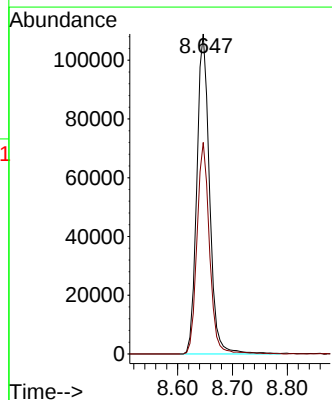
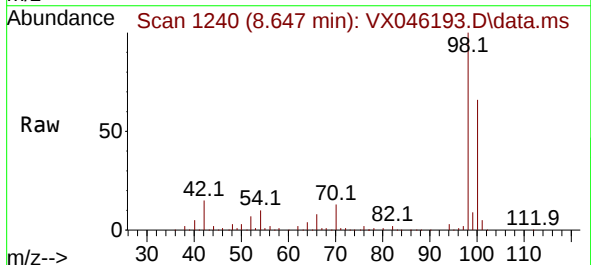
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW2DL

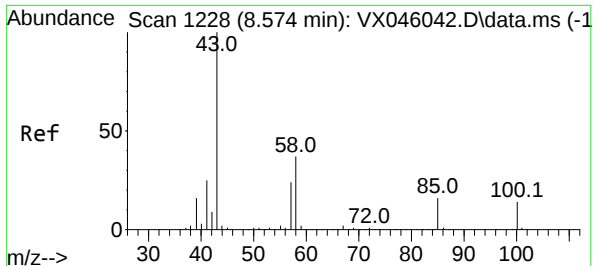
Tgt Ion: 43 Resp: 2401  
Ion Ratio Lower Upper  
43 100  
61 0.0 14.3 21.5#  
87 0.0 9.5 14.3#



#50  
Toluene-d8  
Concen: 50.504 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

Tgt Ion: 98 Resp: 176120  
Ion Ratio Lower Upper  
98 100  
100 65.1 53.5 80.3

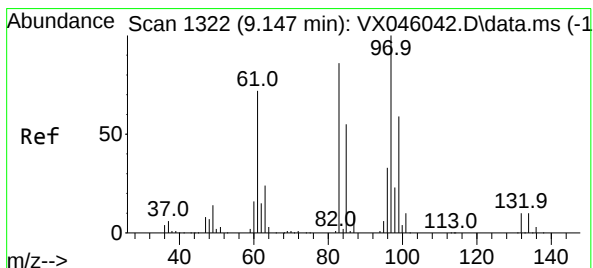
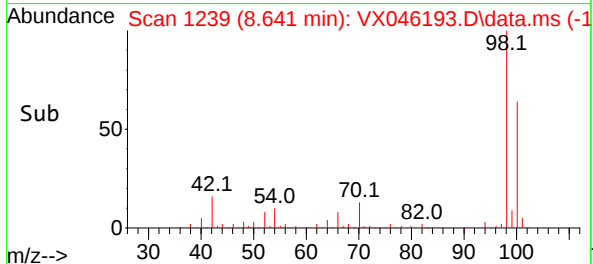
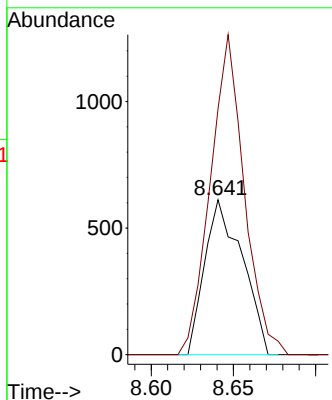
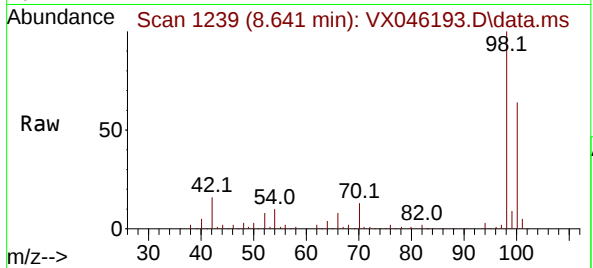




#51  
4-Methyl-2-Pentanone  
Concen: 0.574 ug/l  
RT: 8.641 min Scan# 11  
Delta R.T. 0.067 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

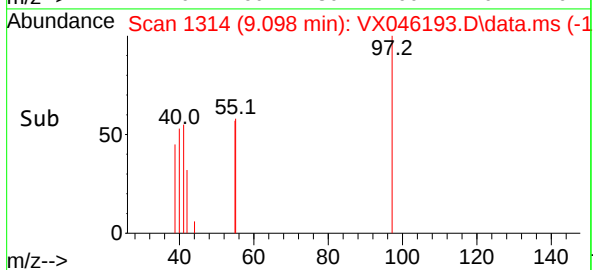
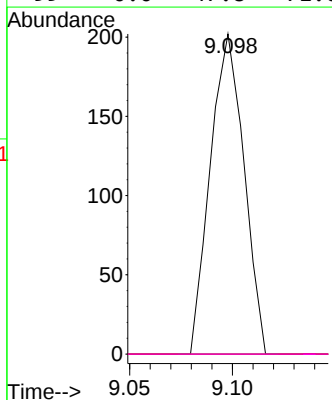
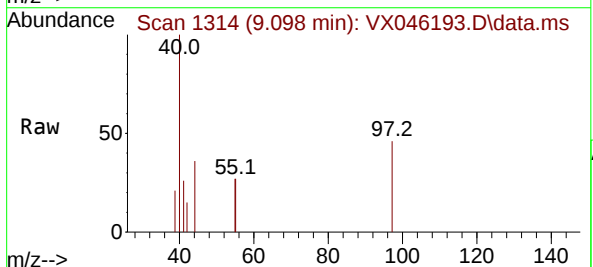
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW2DL

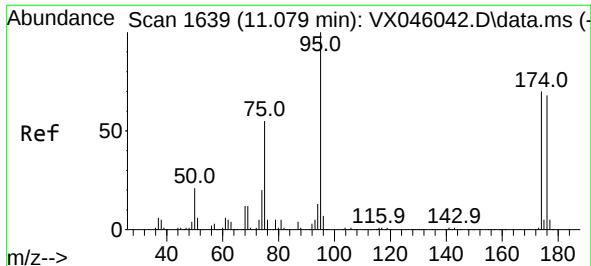
Tgt Ion: 43 Resp: 973  
Ion Ratio Lower Upper  
43 100  
58 186.8 28.9 43.3#



#55  
1,1,2-Trichloroethane  
Concen: 0.240 ug/l  
RT: 9.098 min Scan# 1314  
Delta R.T. -0.049 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

Tgt Ion: 97 Resp: 230  
Ion Ratio Lower Upper  
97 100  
83 0.0 69.0 103.6#  
85 0.0 44.3 66.5#  
99 0.0 47.8 71.6#

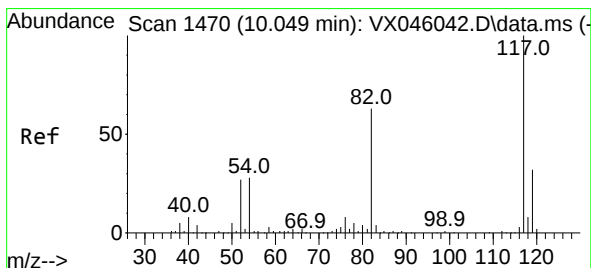
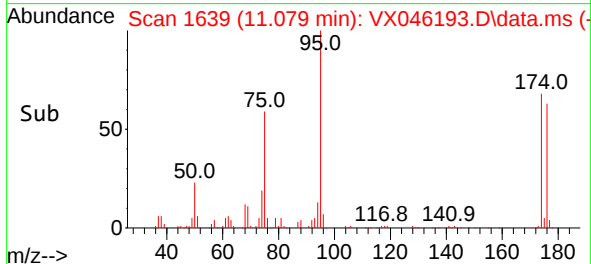
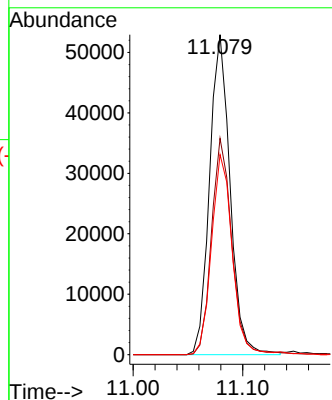
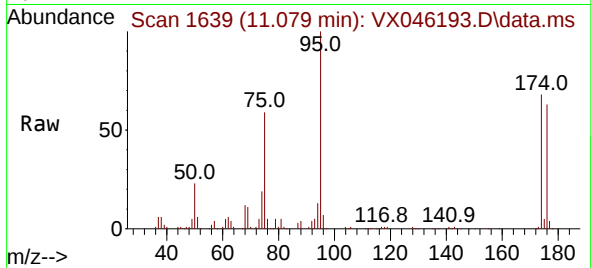




#62  
4-Bromofluorobenzene  
Concen: 51.413 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

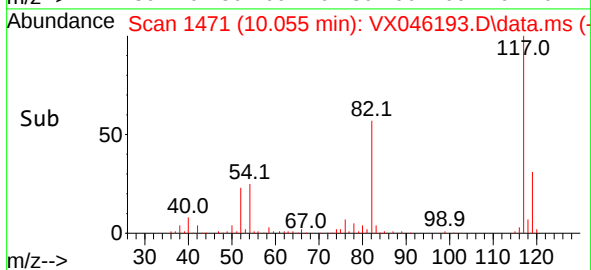
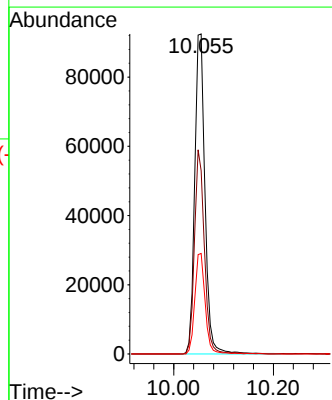
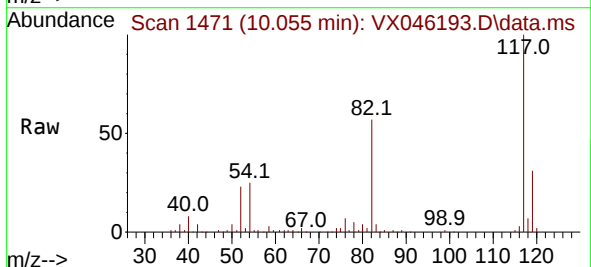
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW2DL

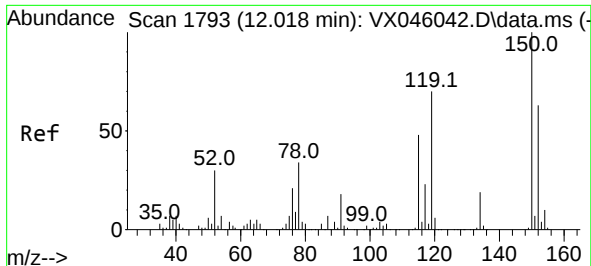
Tgt Ion: 95 Resp: 68773  
Ion Ratio Lower Upper  
95 100  
174 67.5 0.0 135.8  
176 63.5 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.006 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

Tgt Ion: 117 Resp: 132344  
Ion Ratio Lower Upper  
117 100  
82 57.3 50.6 76.0  
119 31.4 25.8 38.6

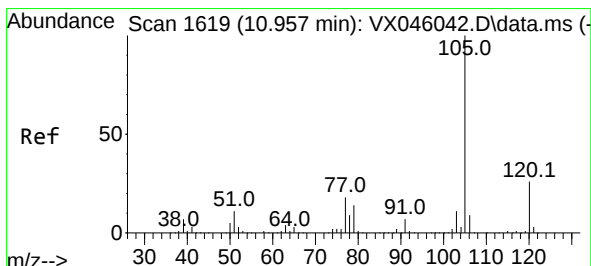
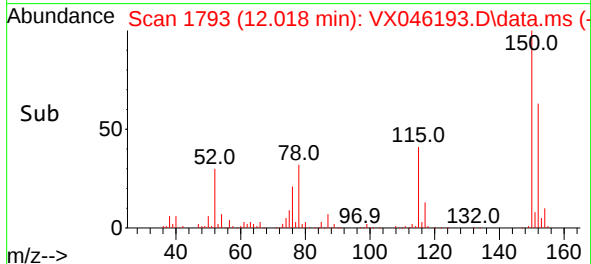
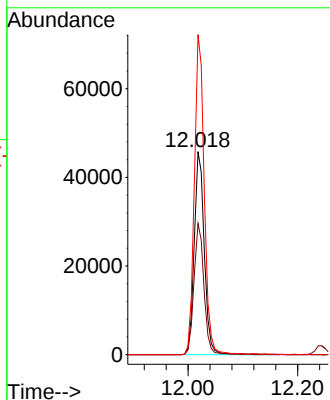
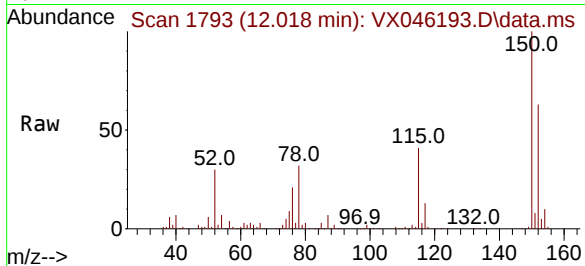




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

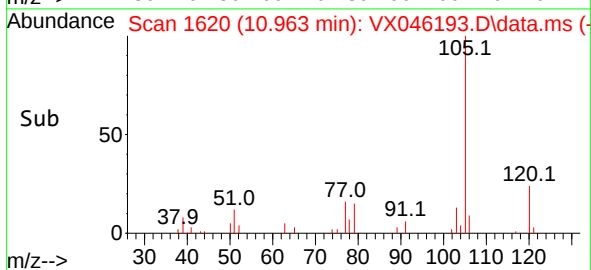
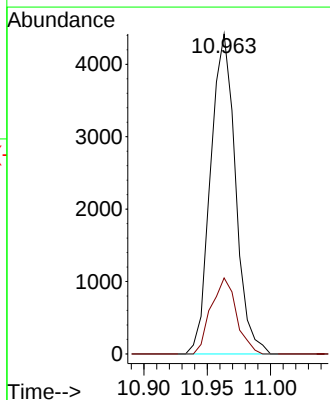
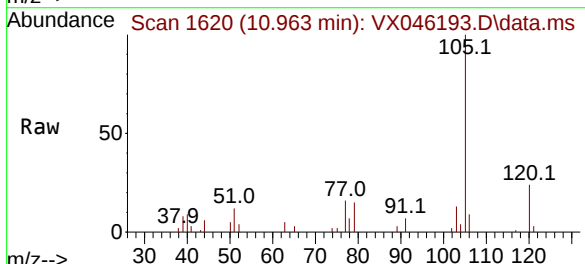
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW2DL

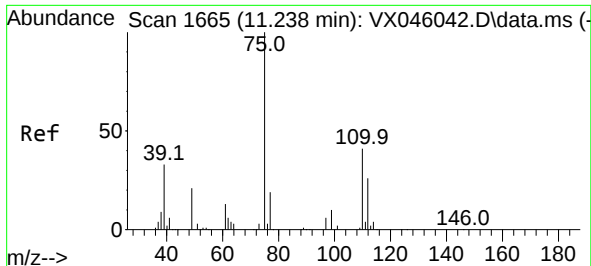
Tgt Ion:152 Resp: 59001  
Ion Ratio Lower Upper  
152 100  
115 64.0 46.9 140.7  
150 154.6 0.0 351.0



#73  
Isopropylbenzene  
Concen: 1.316 ug/l  
RT: 10.963 min Scan# 1620  
Delta R.T. 0.006 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

Tgt Ion:105 Resp: 6043  
Ion Ratio Lower Upper  
105 100  
120 24.2 12.8 38.4

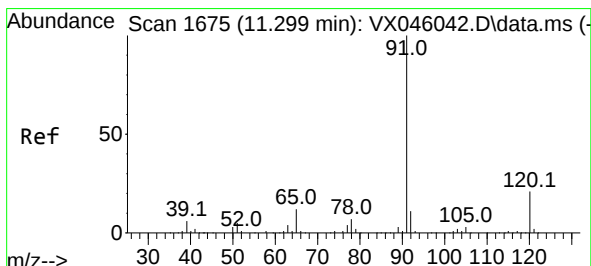
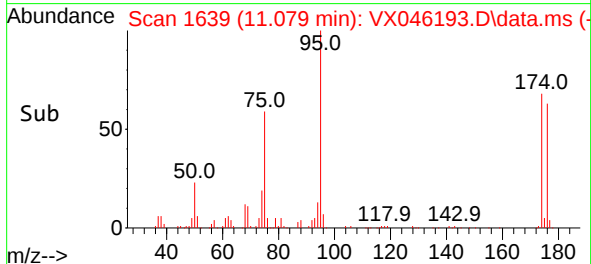
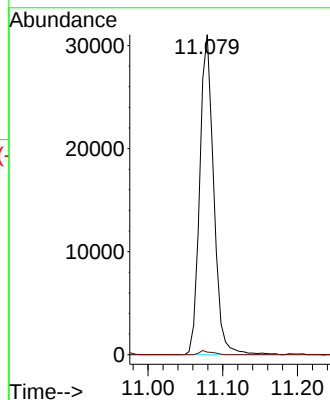
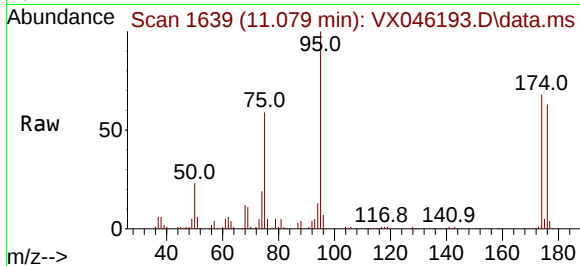




#76  
1,2,3-Trichloropropane  
Concen: 28.452 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

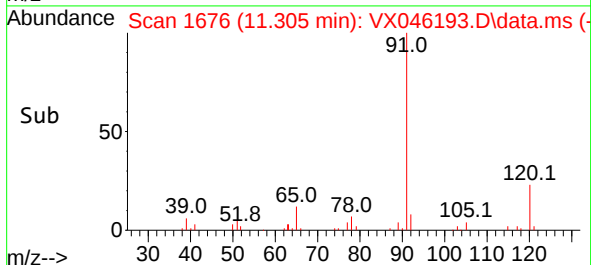
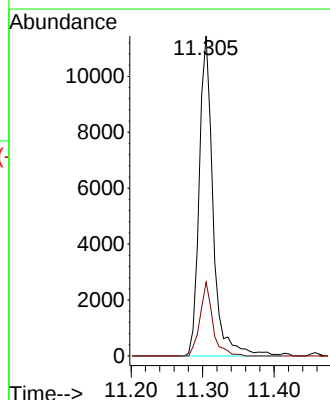
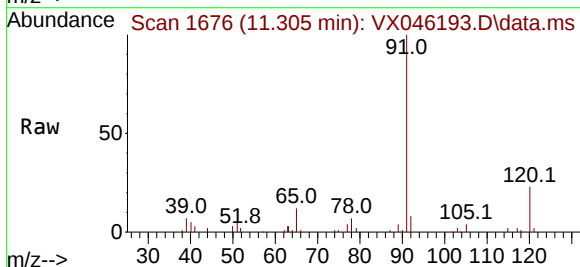
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW2DL

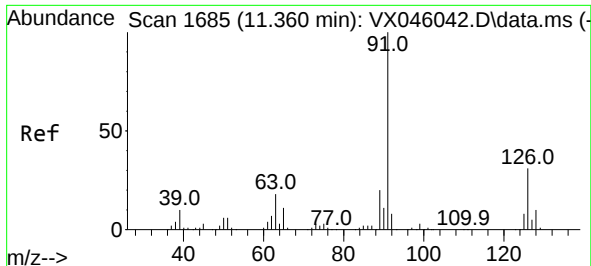
Tgt Ion: 75 Resp: 40407  
Ion Ratio Lower Upper  
75 100  
77 1.1 20.5 61.5#



#78  
n-propylbenzene  
Concen: 2.883 ug/l  
RT: 11.305 min Scan# 1676  
Delta R.T. 0.006 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

Tgt Ion: 91 Resp: 15400  
Ion Ratio Lower Upper  
91 100  
120 21.2 10.8 32.4

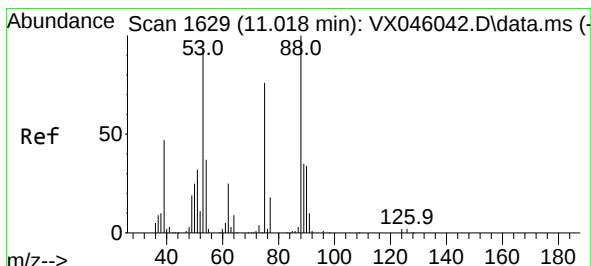
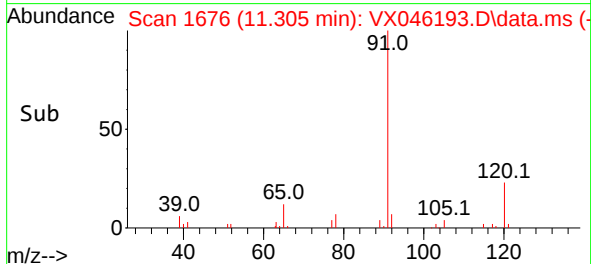
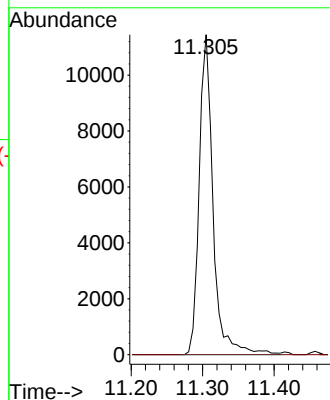
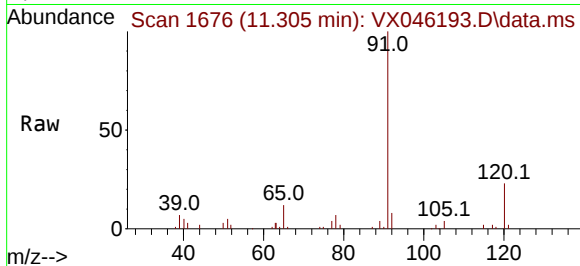




#79  
2-Chlorotoluene  
Concen: 4.470 ug/l  
RT: 11.305 min Scan# 1685  
Delta R.T. -0.055 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

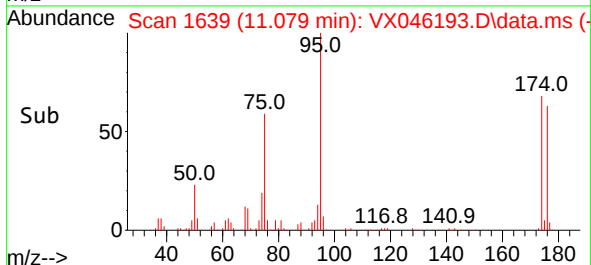
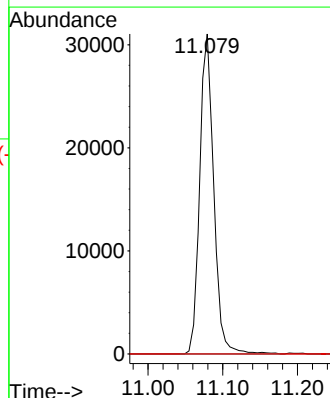
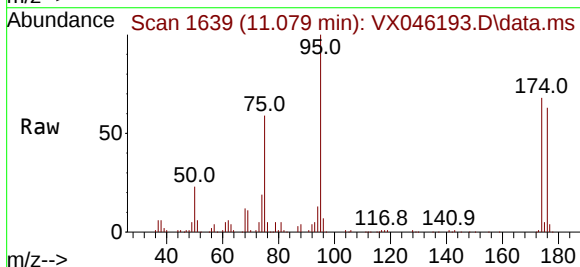
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW2DL

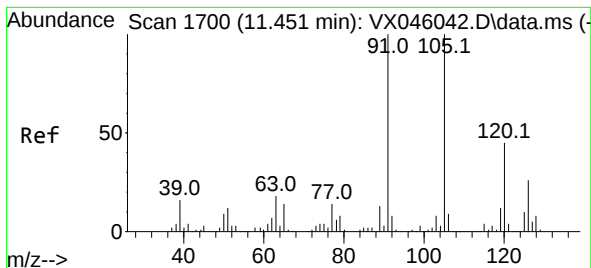
Tgt Ion: 91 Resp: 15400  
Ion Ratio Lower Upper  
91 100  
126 0.0 15.6 46.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 92.631 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

Tgt Ion: 75 Resp: 40407  
Ion Ratio Lower Upper  
75 100  
53 0.0 100.5 150.7#  
89 0.0 37.0 55.6#

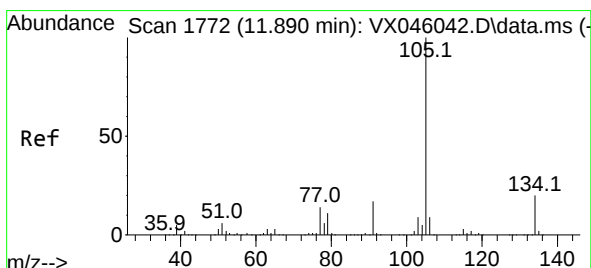
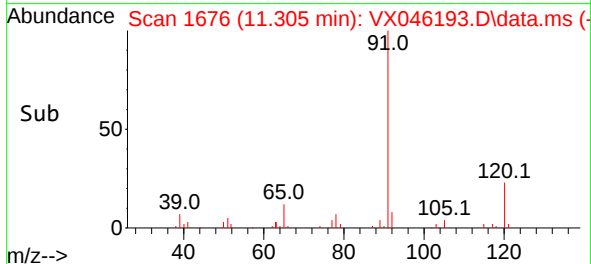
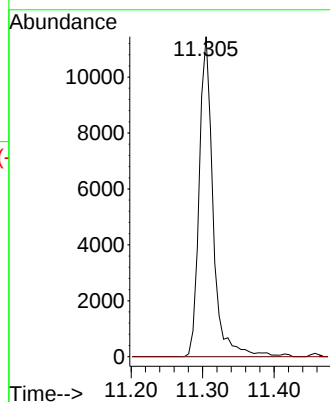
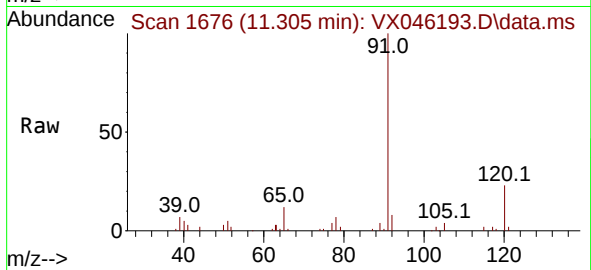




#82  
4-Chlorotoluene  
Concen: 4.031 ug/l  
RT: 11.305 min Scan# 11  
Delta R.T. -0.146 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

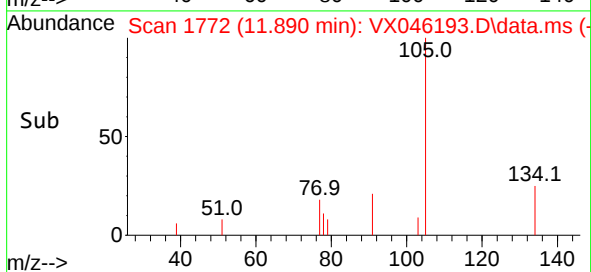
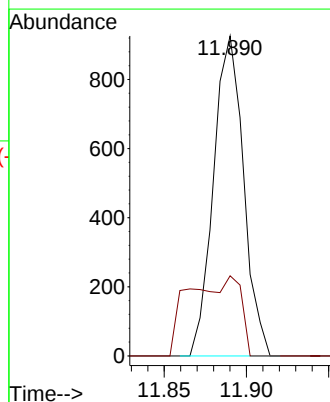
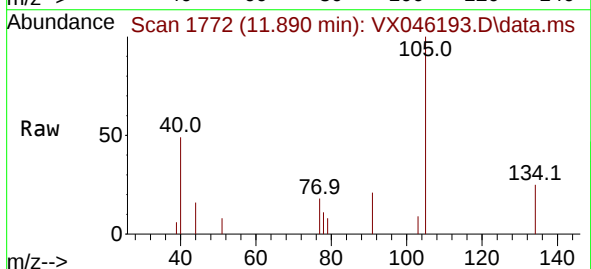
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW2DL

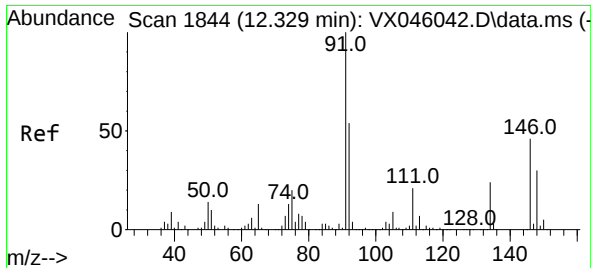
Tgt Ion: 91 Resp: 15400  
Ion Ratio Lower Upper  
91 100  
126 0.0 13.3 39.8#



#85  
sec-Butylbenzene  
Concen: 0.248 ug/l  
RT: 11.890 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

Tgt Ion: 105 Resp: 1177  
Ion Ratio Lower Upper  
105 100  
134 0.0 9.7 29.1#





#89

n-Butylbenzene

Concen: 0.298 ug/l

RT: 12.341 min Scan# 1846

Delta R.T. 0.012 min

Lab File: VX046193.D

Acq: 14 May 2025 14:45

Instrument :

MSVOA\_X

ClientSampleId :

MW2DL

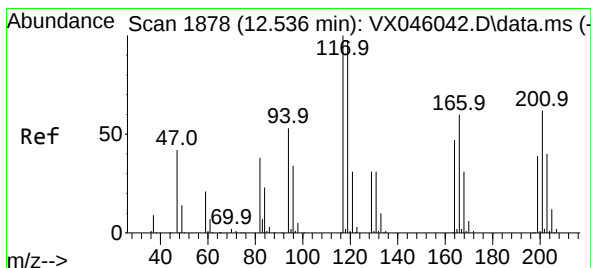
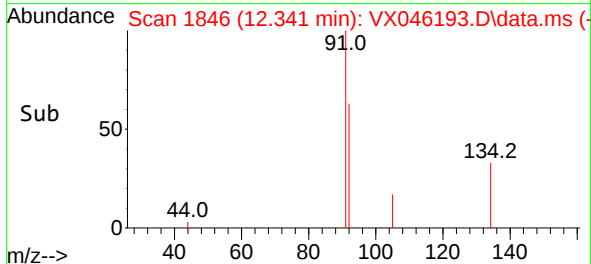
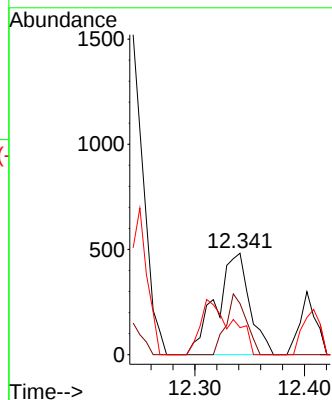
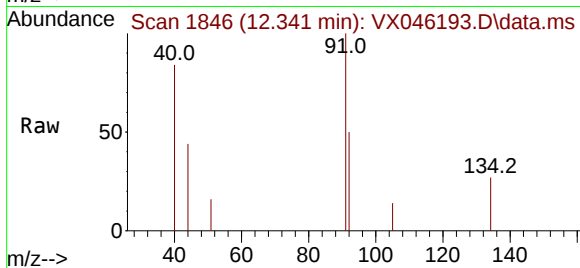
Tgt Ion: 91 Resp: 1024

Ion Ratio Lower Upper

91 100

92 35.7 26.9 80.7

134 0.0 11.8 35.3#



#90

Hexachloroethane

Concen: 0.269 ug/l

RT: 12.616 min Scan# 1891

Delta R.T. 0.079 min

Lab File: VX046193.D

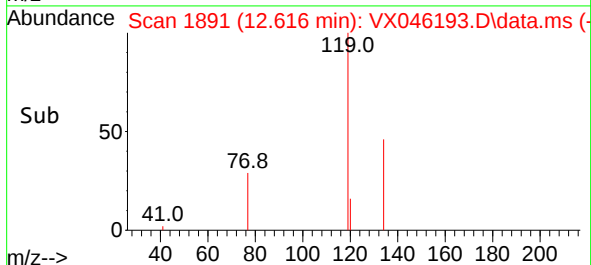
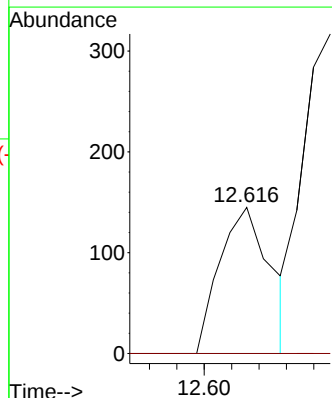
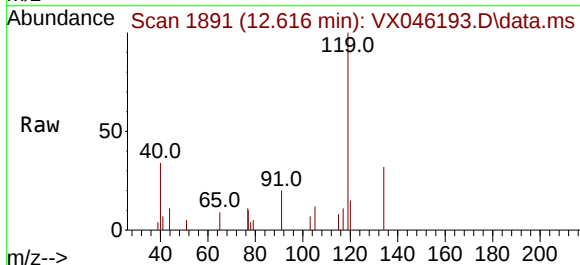
Acq: 14 May 2025 14:45

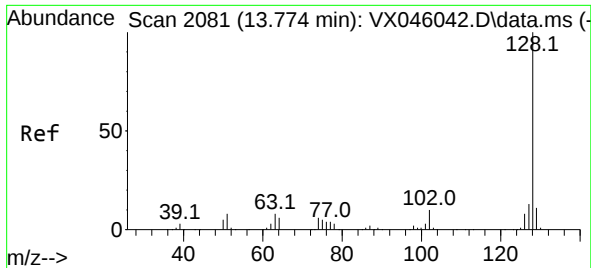
Tgt Ion: 117 Resp: 186

Ion Ratio Lower Upper

117 100

201 0.0 31.6 94.7#





#95  
Naphthalene  
Concen: 3.534 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.006 min  
Lab File: VX046193.D  
Acq: 14 May 2025 14:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW2DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.0  | 10.4  | 15.6  |
| 129     | 10.9  | 8.6   | 13.0  |

